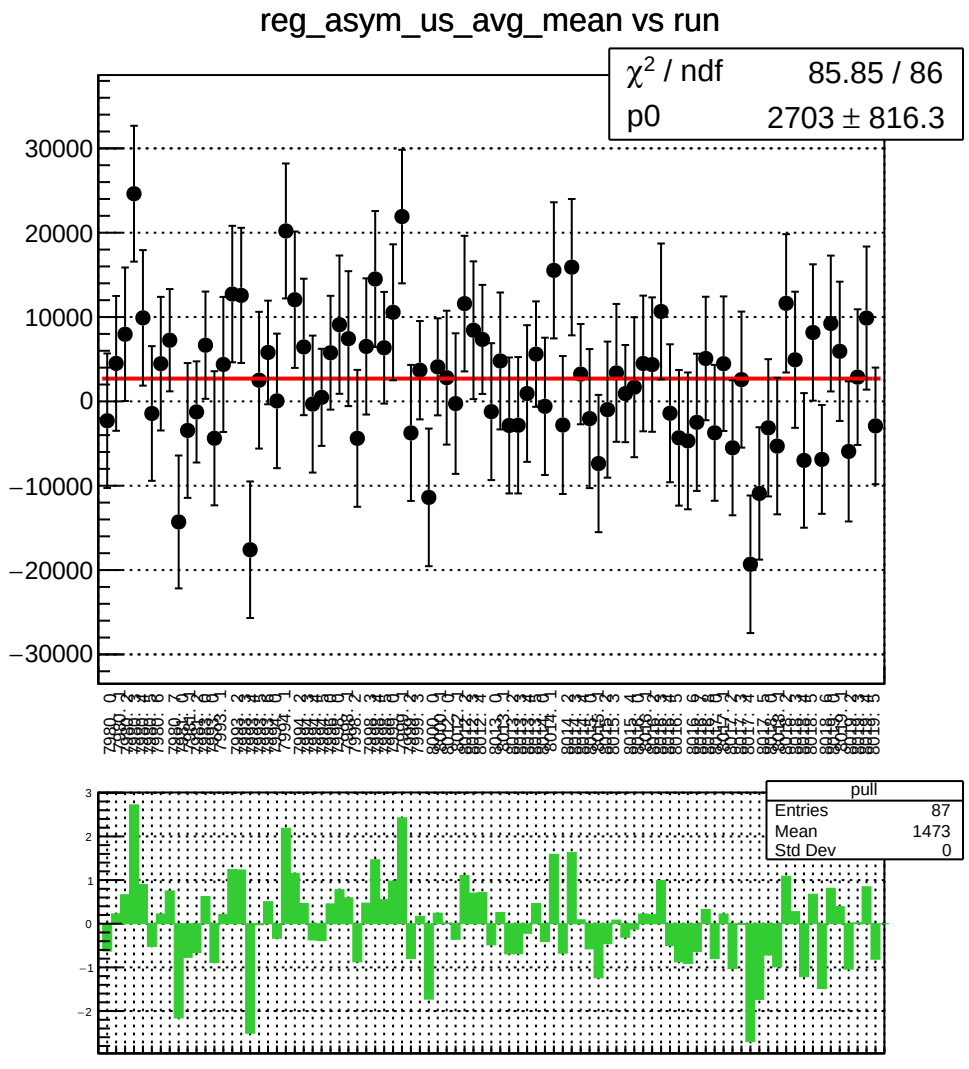
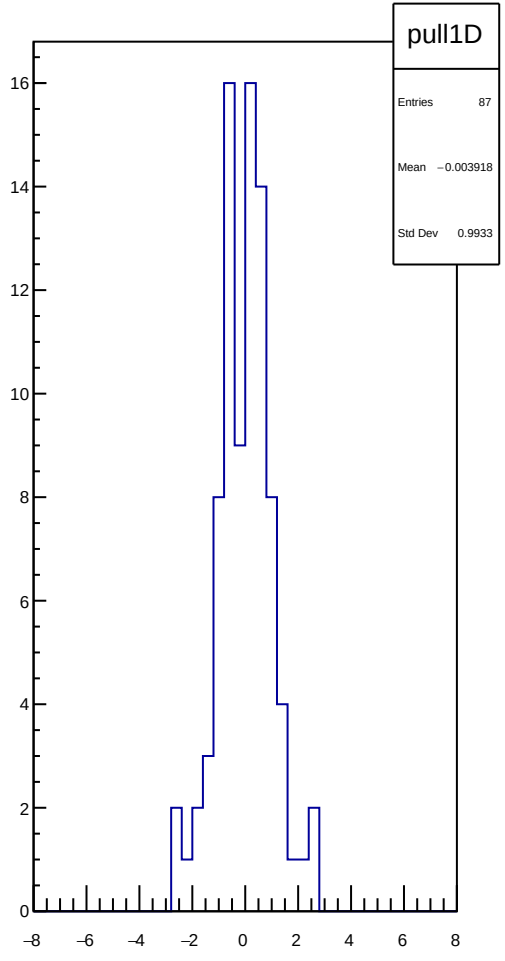
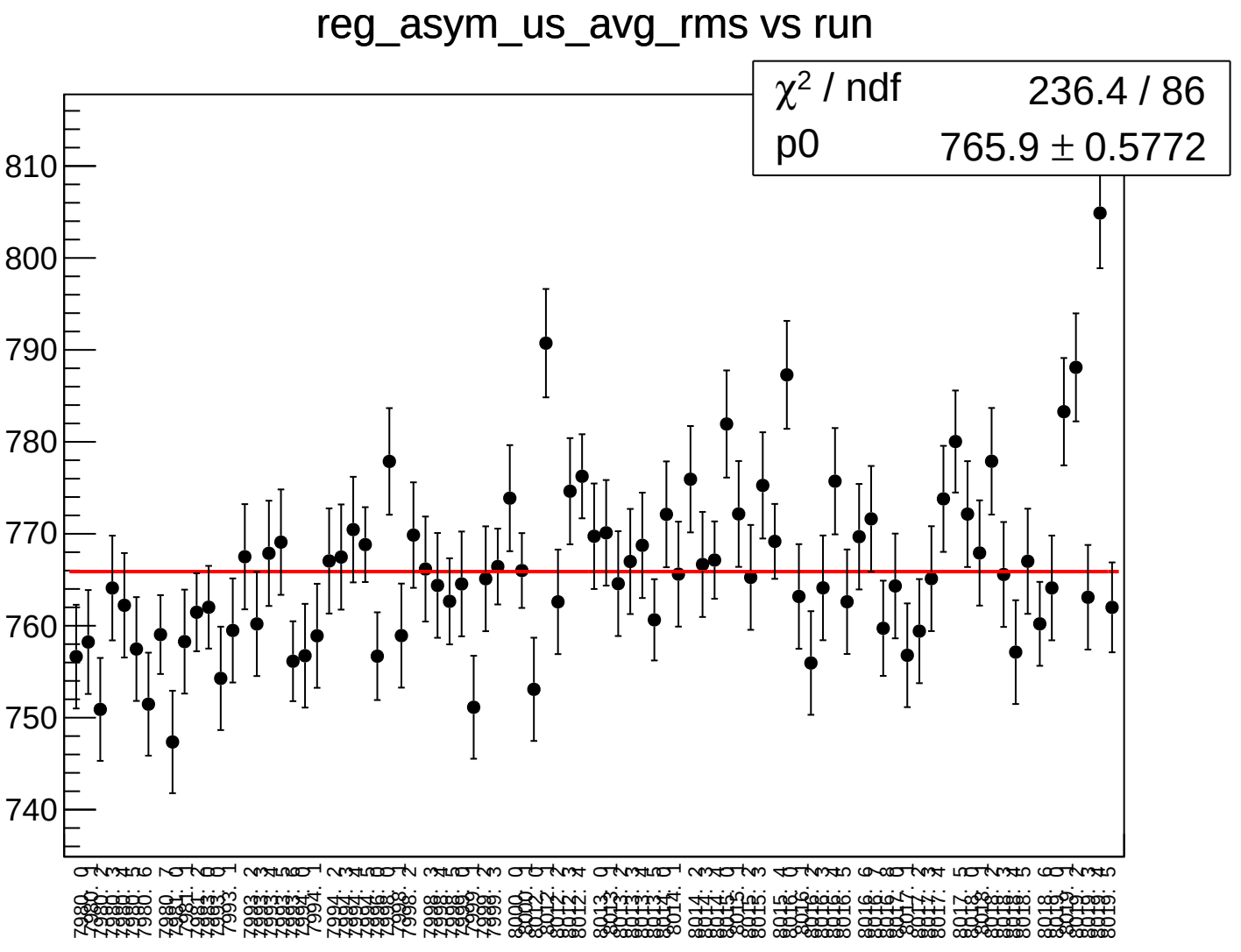
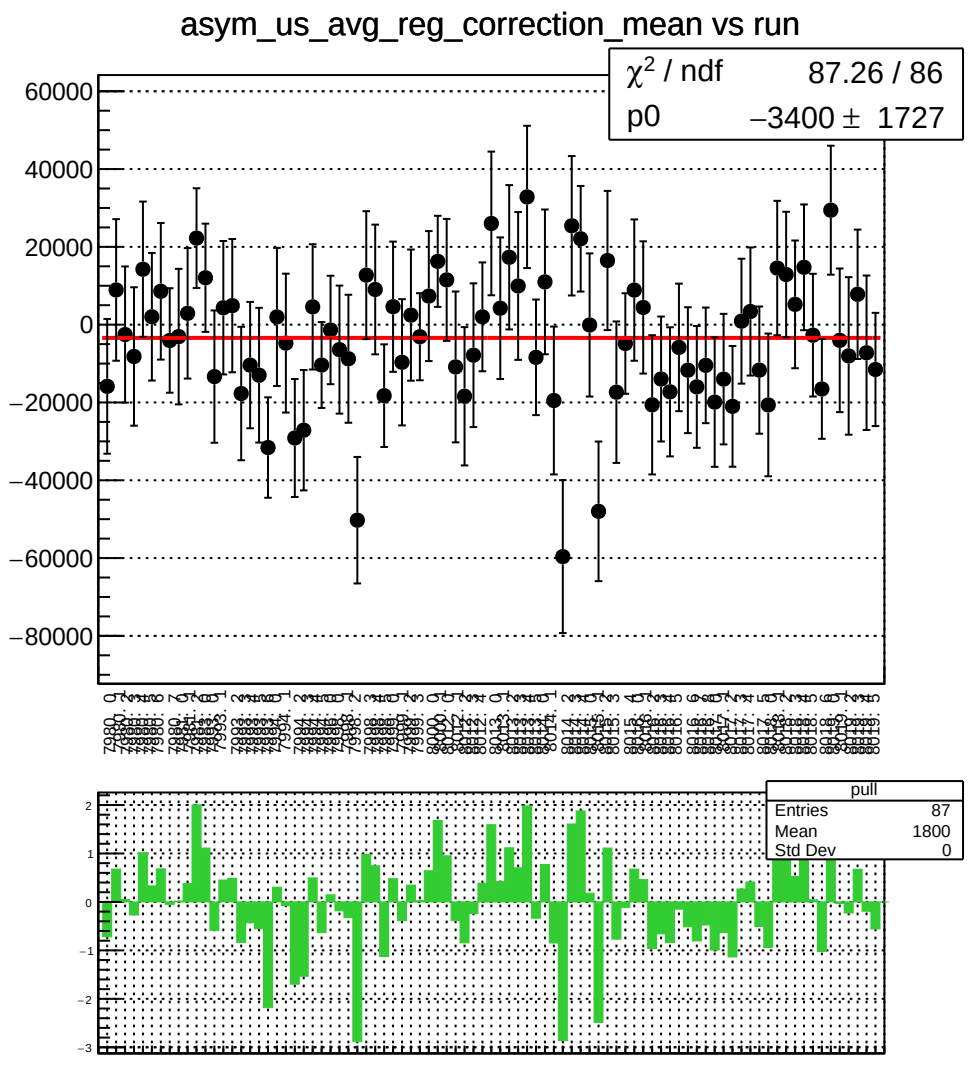
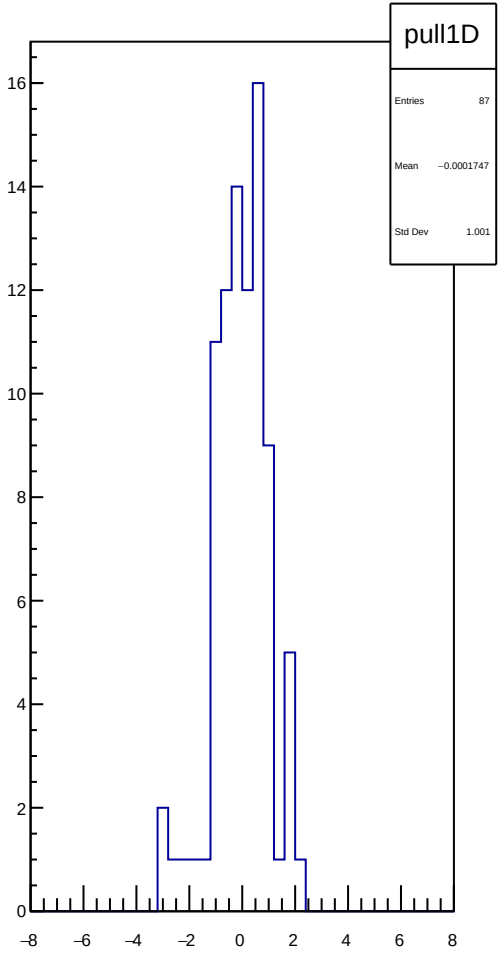
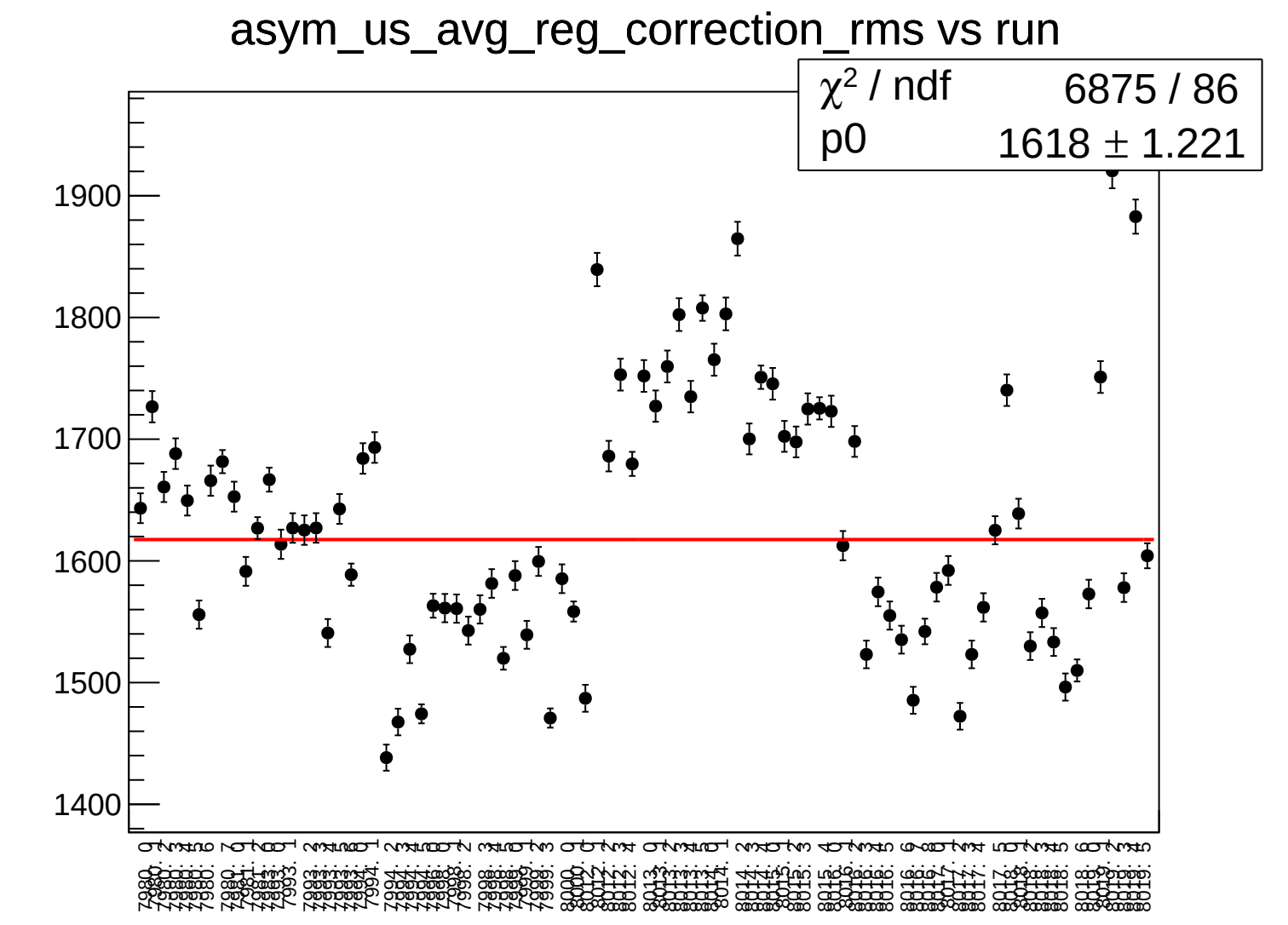

reg_asym_us_avg_mean vs run
χ² / ndf 85.85 / 86
p0 2703 ± 816.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 1473
Std Dev 0
3
2
1
0
−1
−2

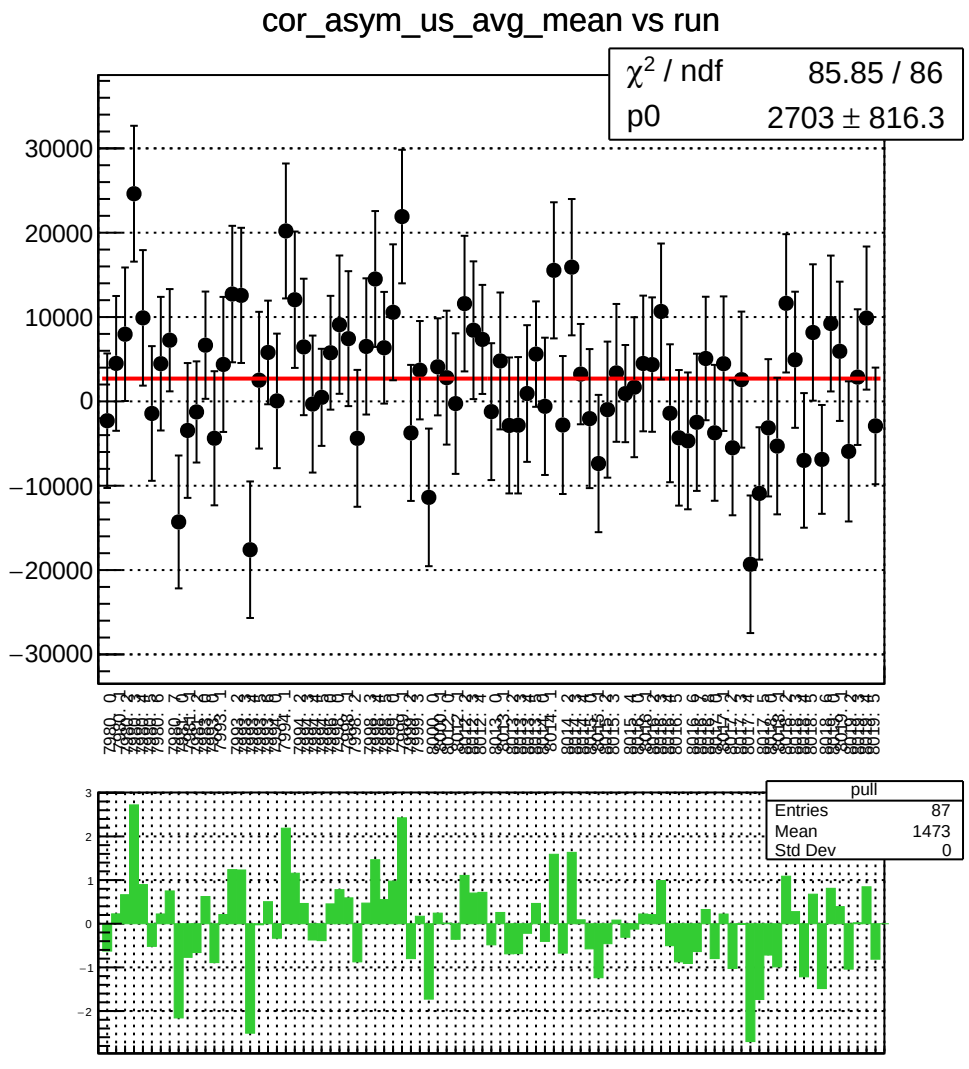

pull1D
Entries 87
Mean −0.003918
Std Dev 0.9933
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

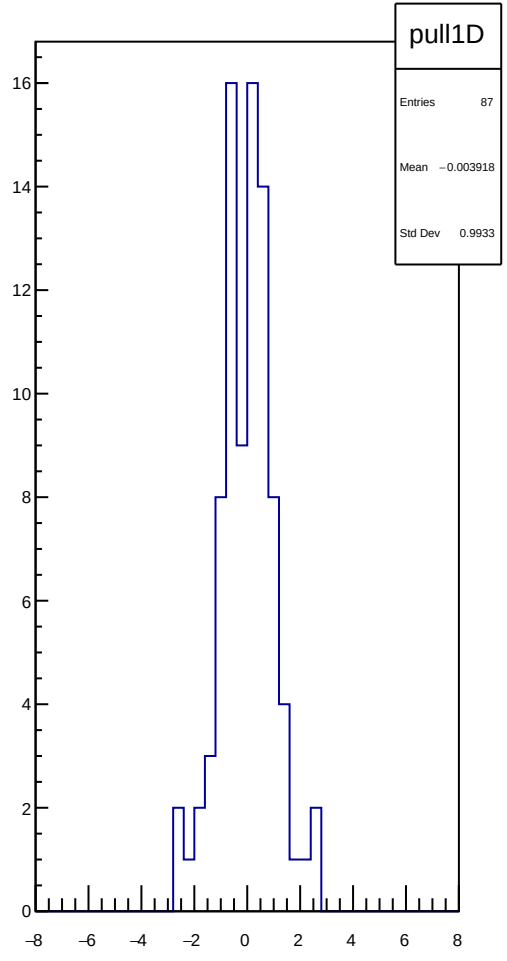

reg_asym_us_avg_rms vs run
χ^2 / ndf 236.4 / 86
p0 765.9 ± 0.5772
810
800
790
780
770
760
750
740


asym_us_avg_reg_correction_mean vs run
χ² / ndf 87.26 / 86
p0 −3400 ± 1727
pull
Entries 87
Mean 1800
Std Dev 0


pull1D
Entries 87
Mean −0.0001747
Std Dev 1.001


asym_us_avg_reg_correction_rms vs run
χ² / ndf 6875 / 86
p0 1618 ± 1.221
1900
1800
1700
1600
1500
1400


cor_asym_us_avg_mean vs run
χ² / ndf 85.85 / 86
p0 2703 ± 816.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 1473
Std Dev 0


pull1D
Entries 87
Mean −0.003918
Std Dev 0.9933
16
14
12
10
8
6
4
2
0
−8
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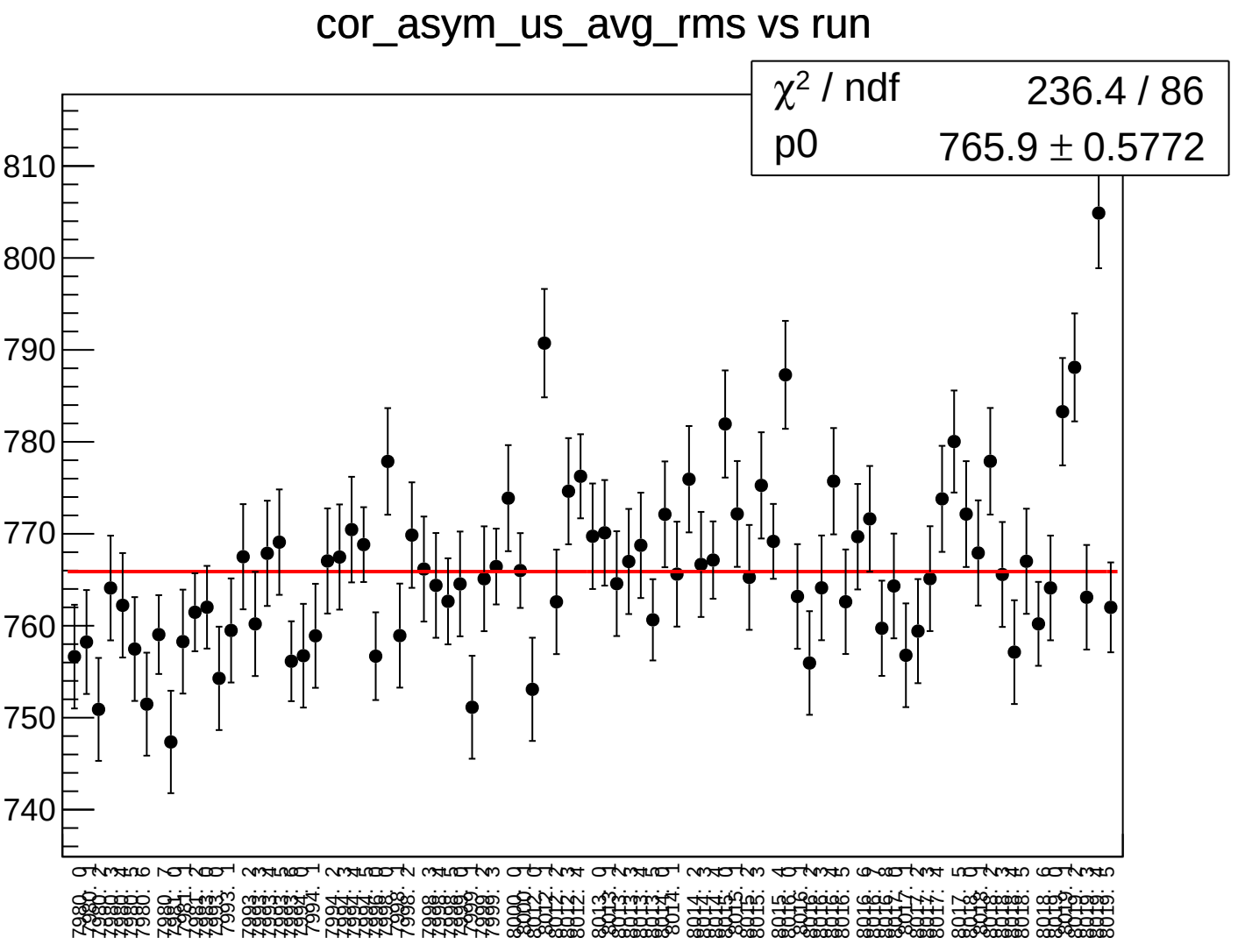
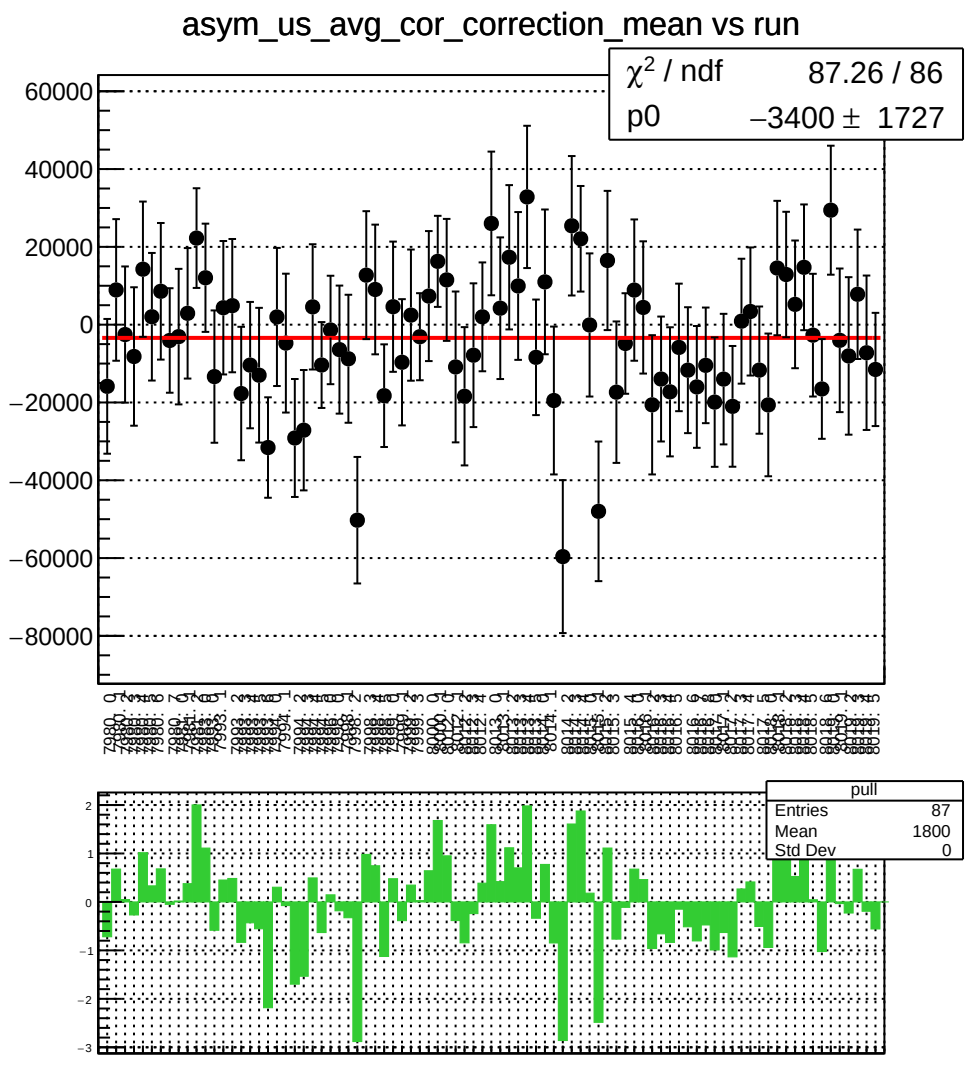
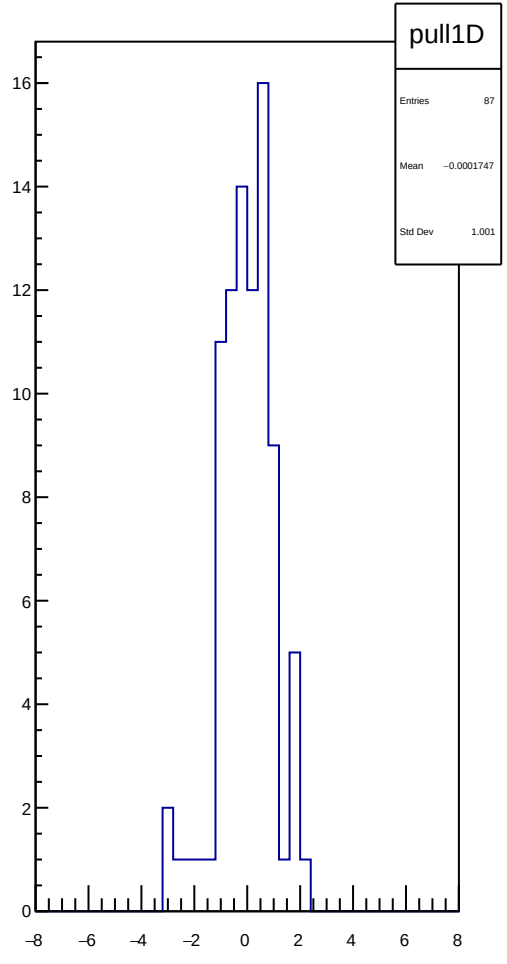
0
2
4
6
8


cor_asym_us_avg_rms vs run
χ^2 / ndf 236.4 / 86
p0 765.9 ± 0.5772
810
800
790
780
770
760
750
740


asym_us_avg_cor_correction_mean vs run
χ² / ndf 87.26 / 86
p0 −3400 ± 1727
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 1800
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean −0.0001747
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
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−4
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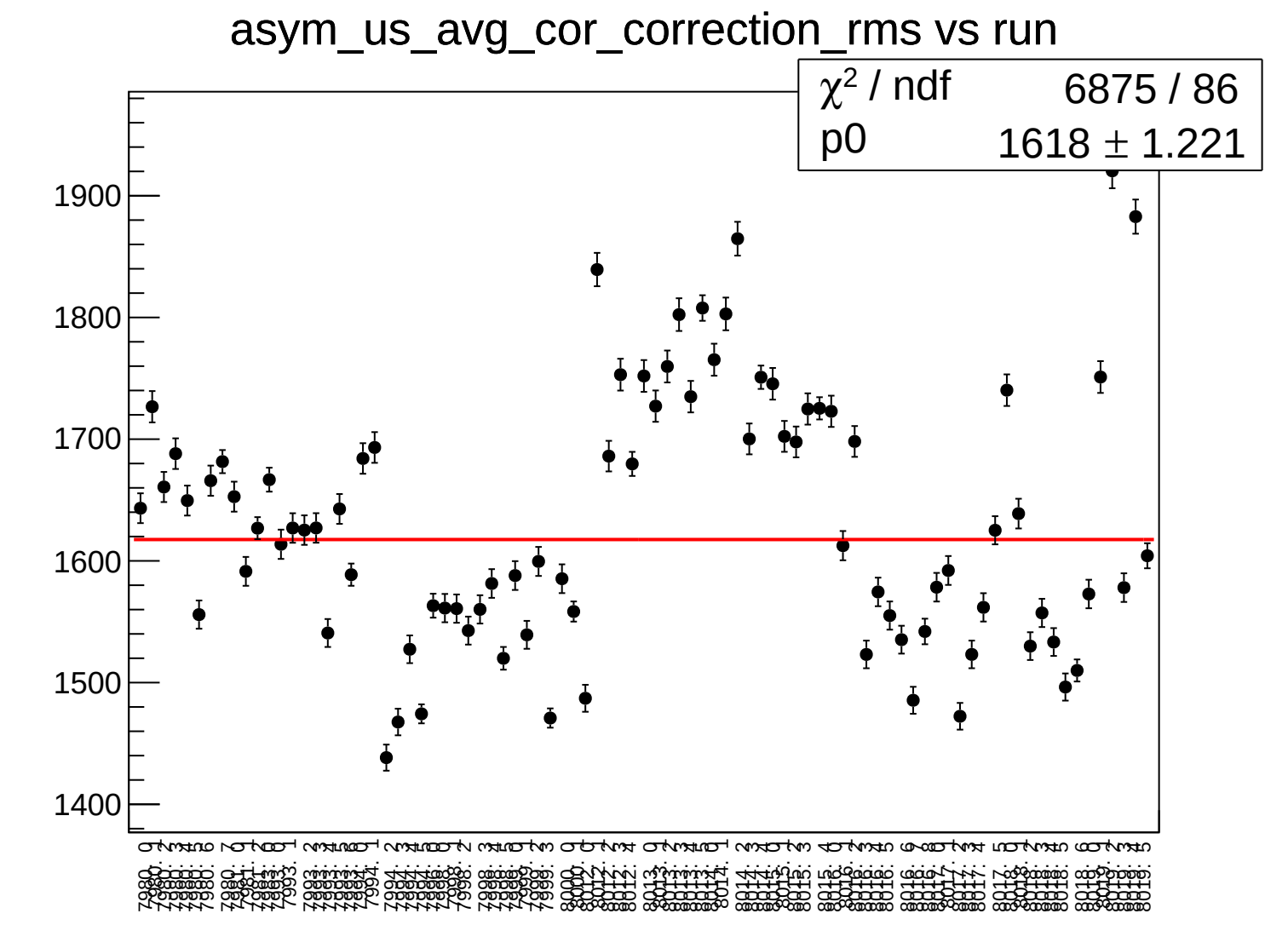
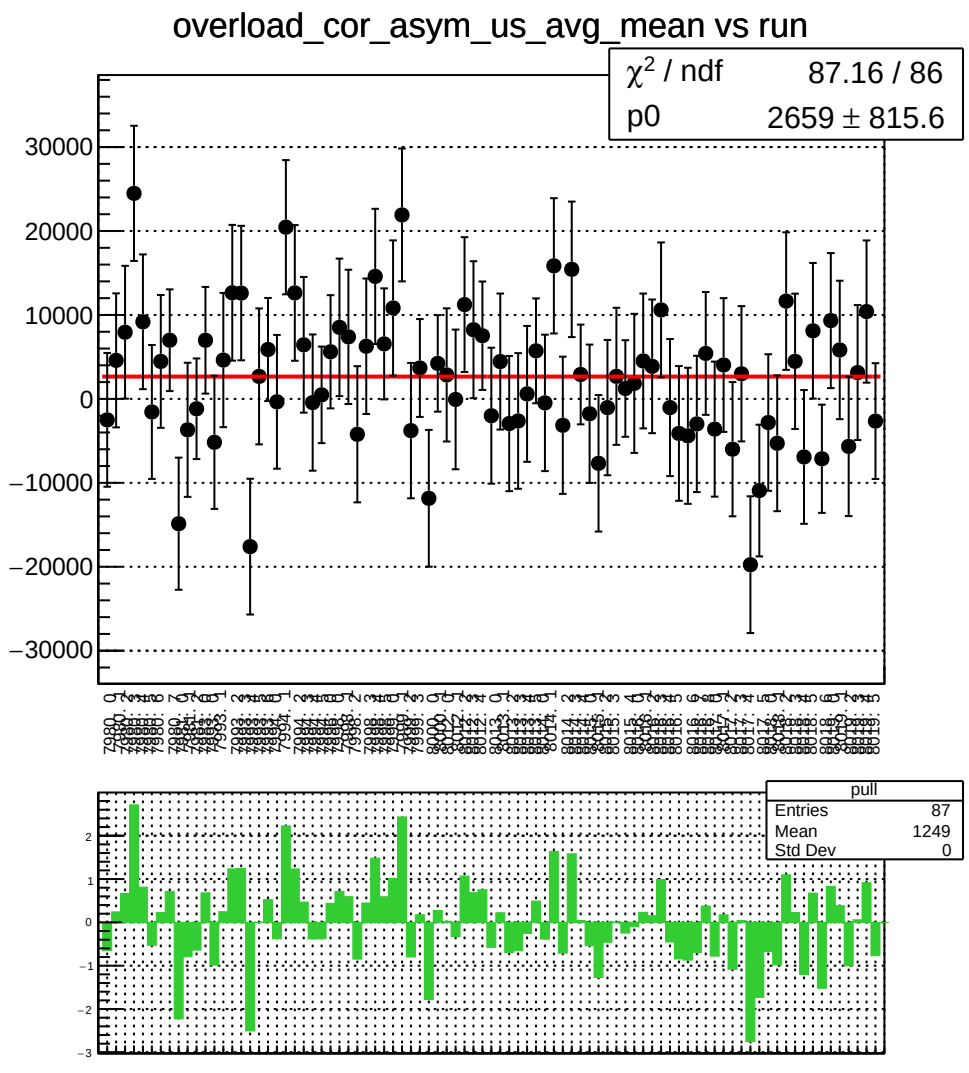
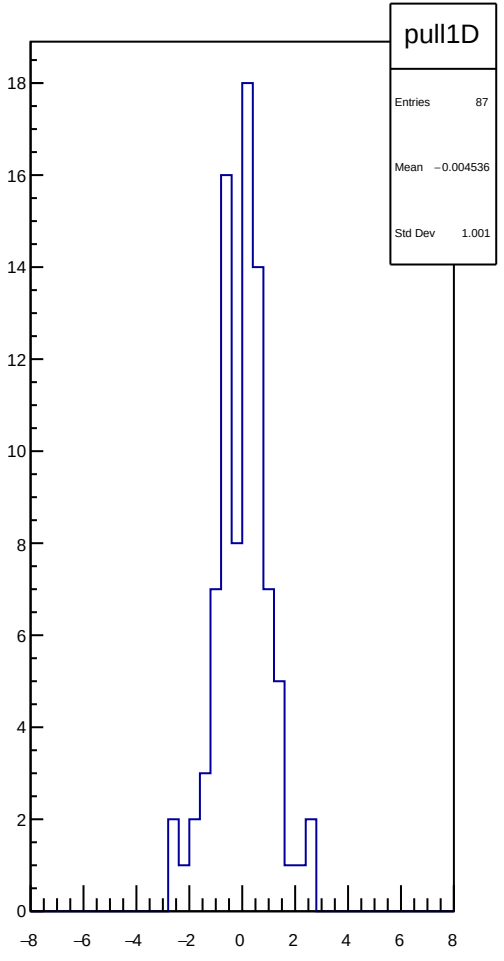
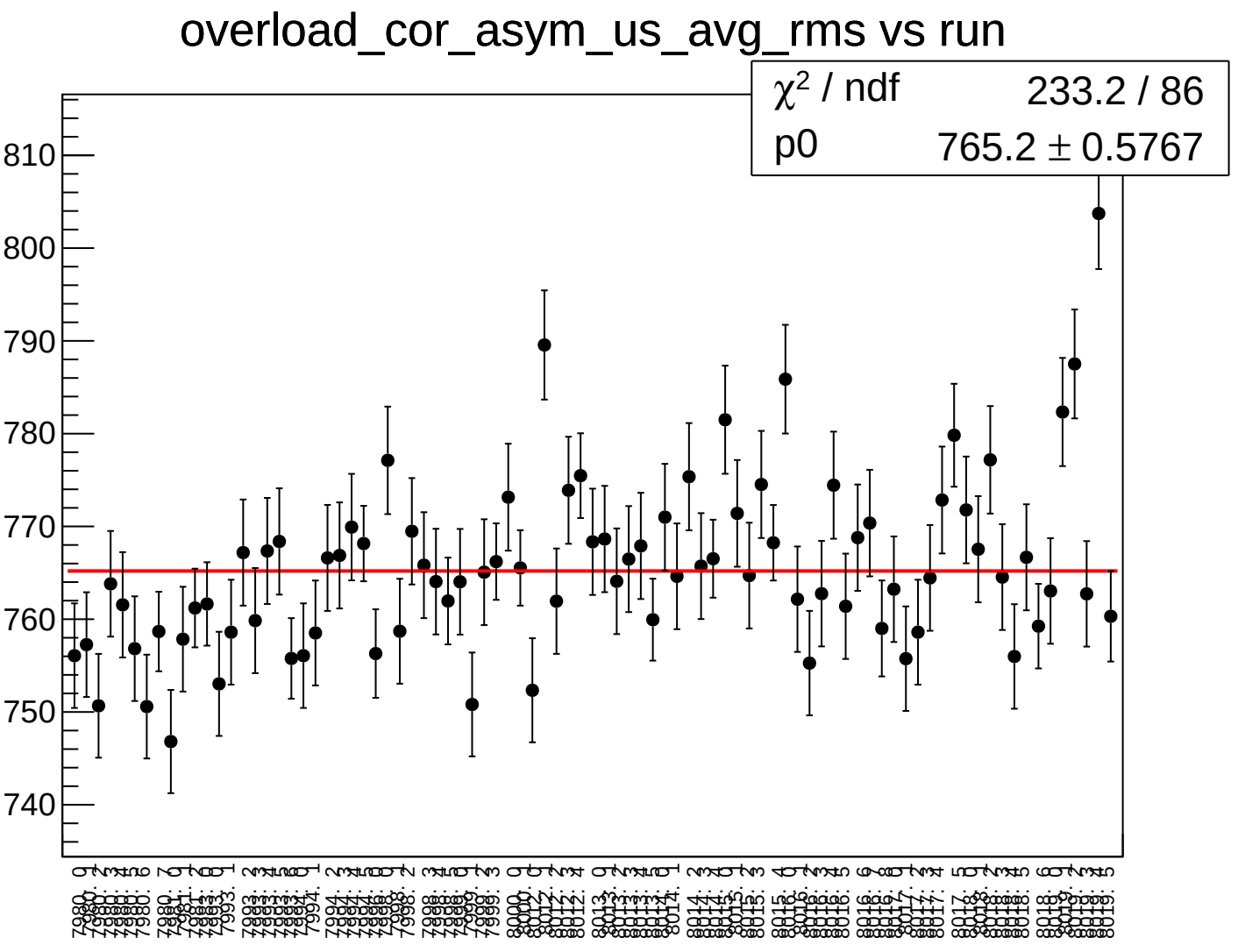
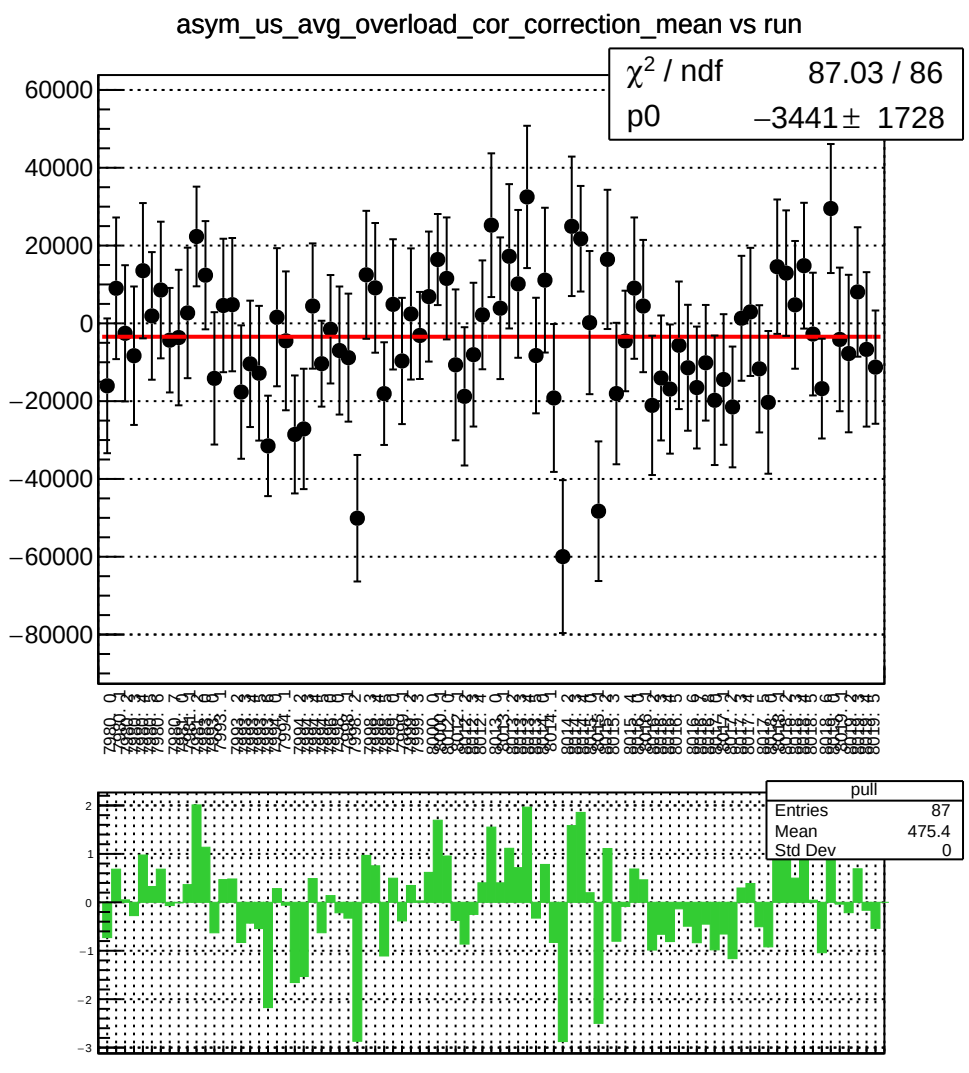
0
2
4
6
8

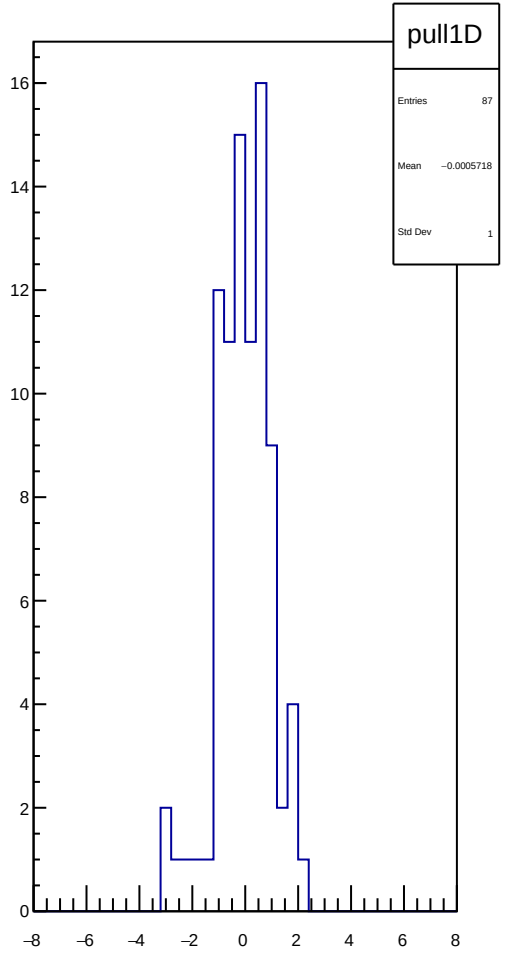

asym_us_avg_cor_correction_rms vs run
χ² / ndf 6875 / 86
p0 1618 ± 1.221
1900
1800
1700
1600
1500
1400


overload_cor_asym_us_avg_mean vs run
χ² / ndf 87.16 / 86
p0 2659 ± 815.6
pull
Entries 87
Mean 1249
Std Dev 0


pull1D
Entries 87
Mean −0.004536
Std Dev 1.001


overload_cor_asym_us_avg_rms vs run
χ^2 / ndf 233.2 / 86
p0 765.2 ± 0.5767
810
800
790
780
770
760
750
740


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 87.03 / 86
p0 −3441 ± 1728
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 475.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean −0.0005718
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
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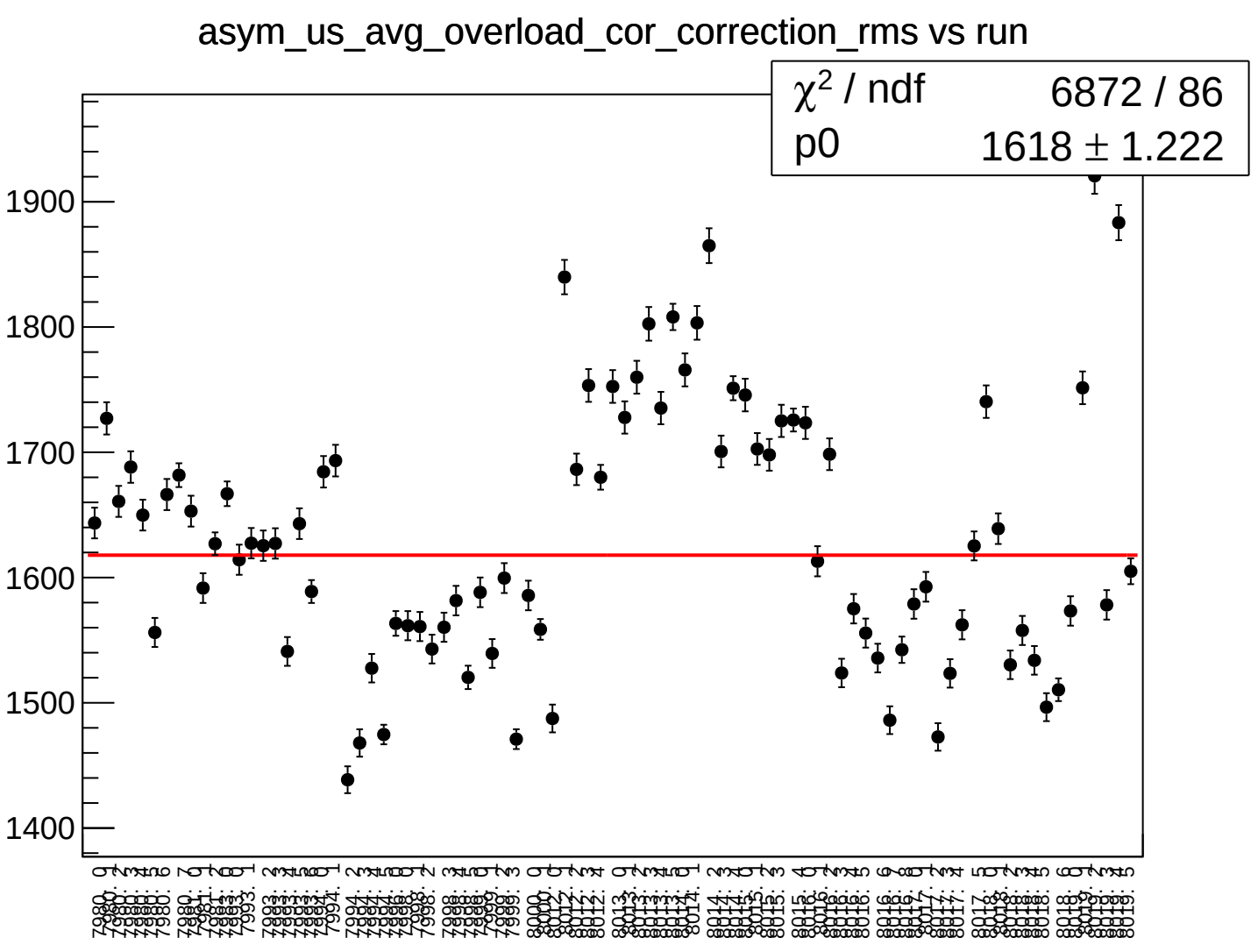
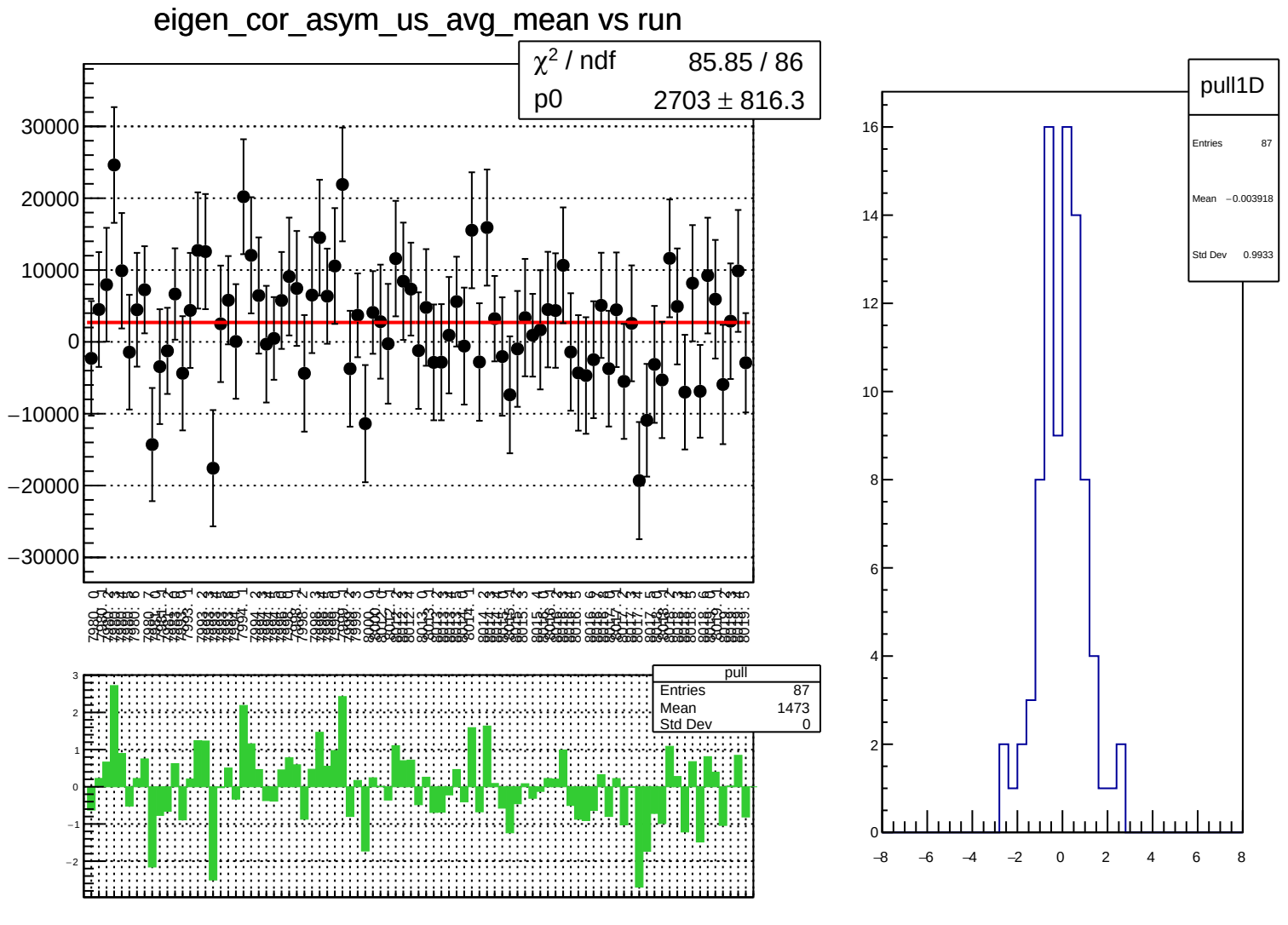
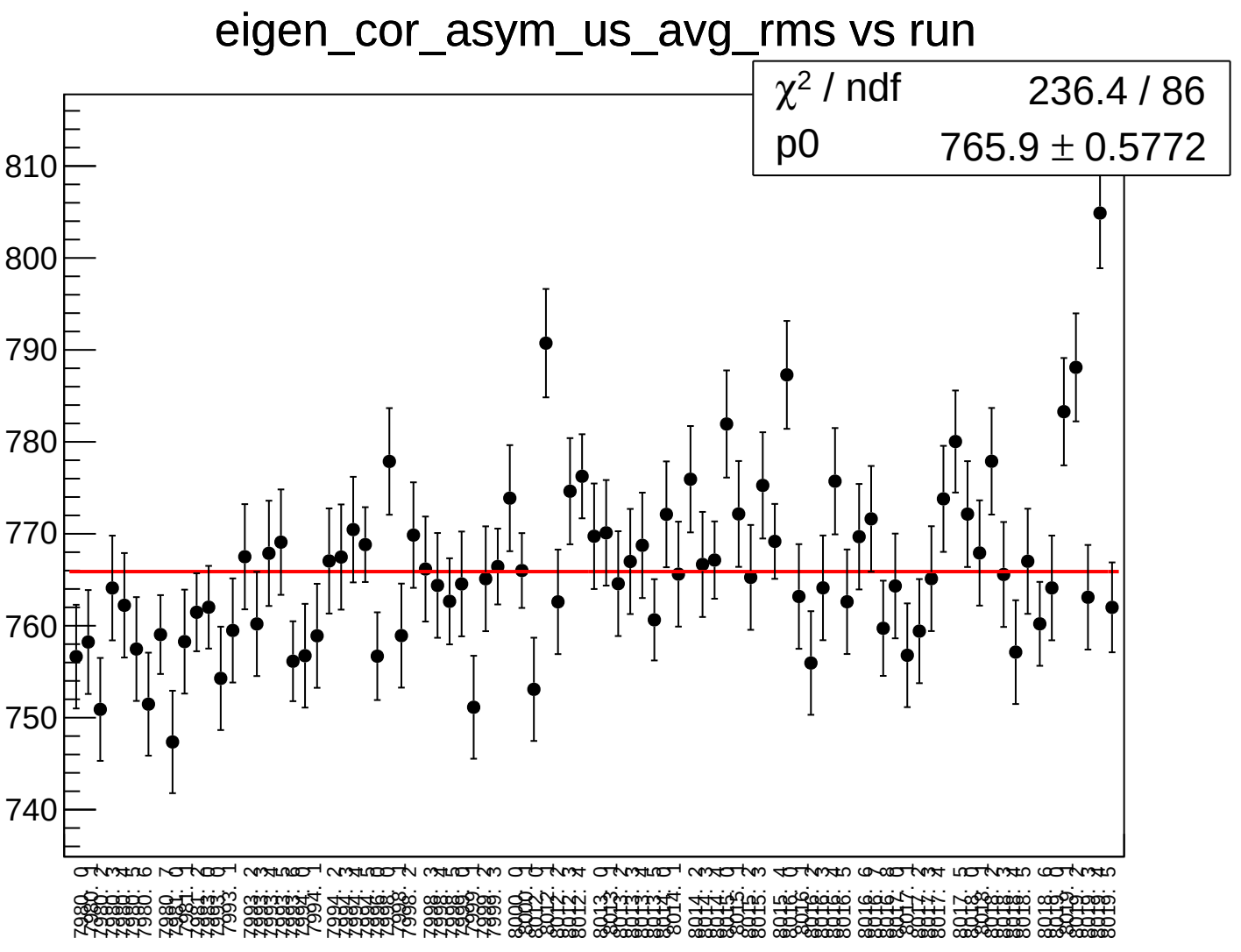
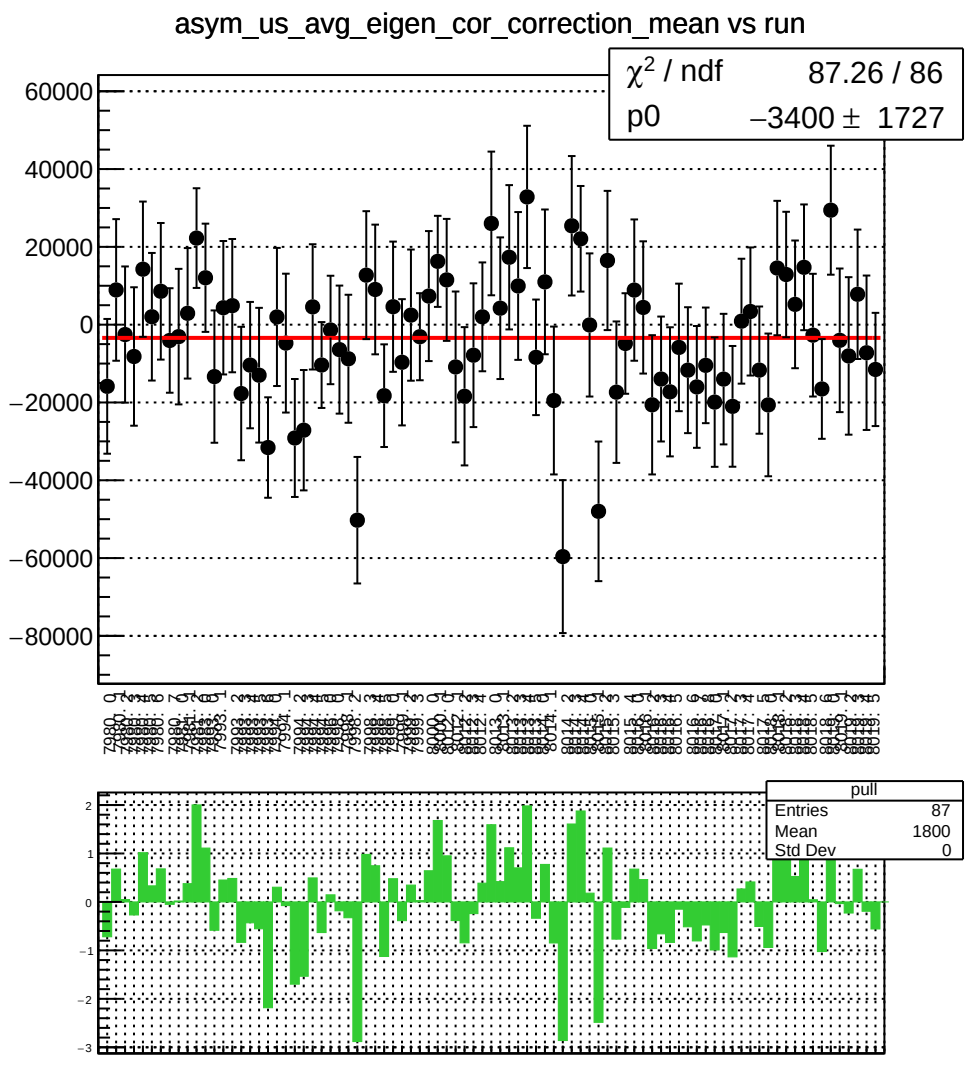
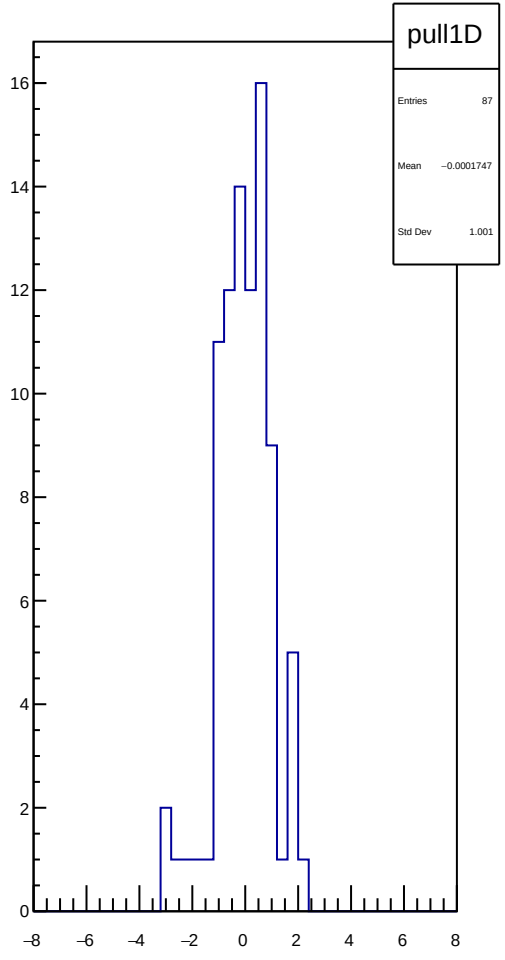
0
2
4
6
8

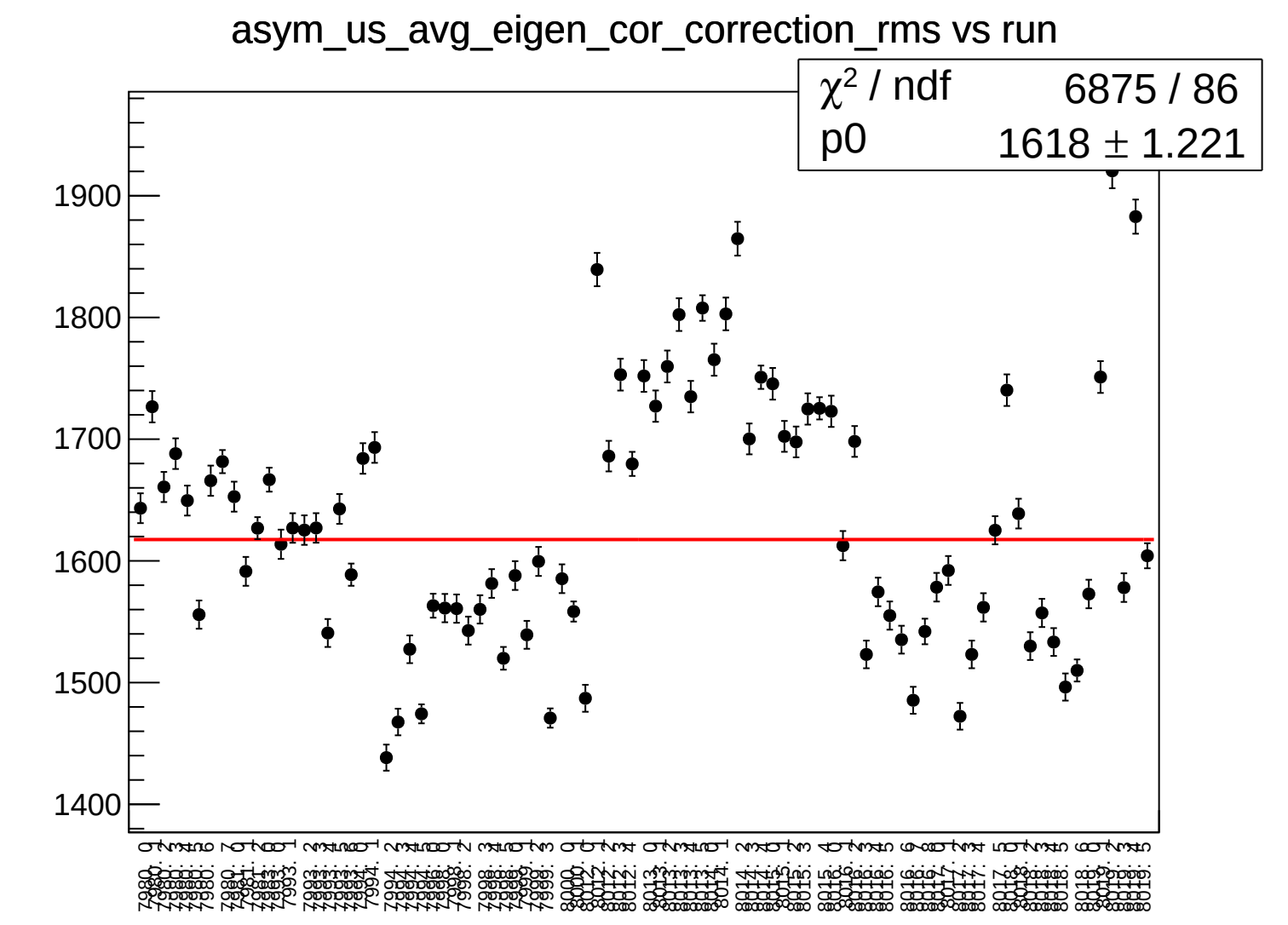

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 6872 / 86
p0 1618 ± 1.222
1900
1800
1700
1600
1500
1400

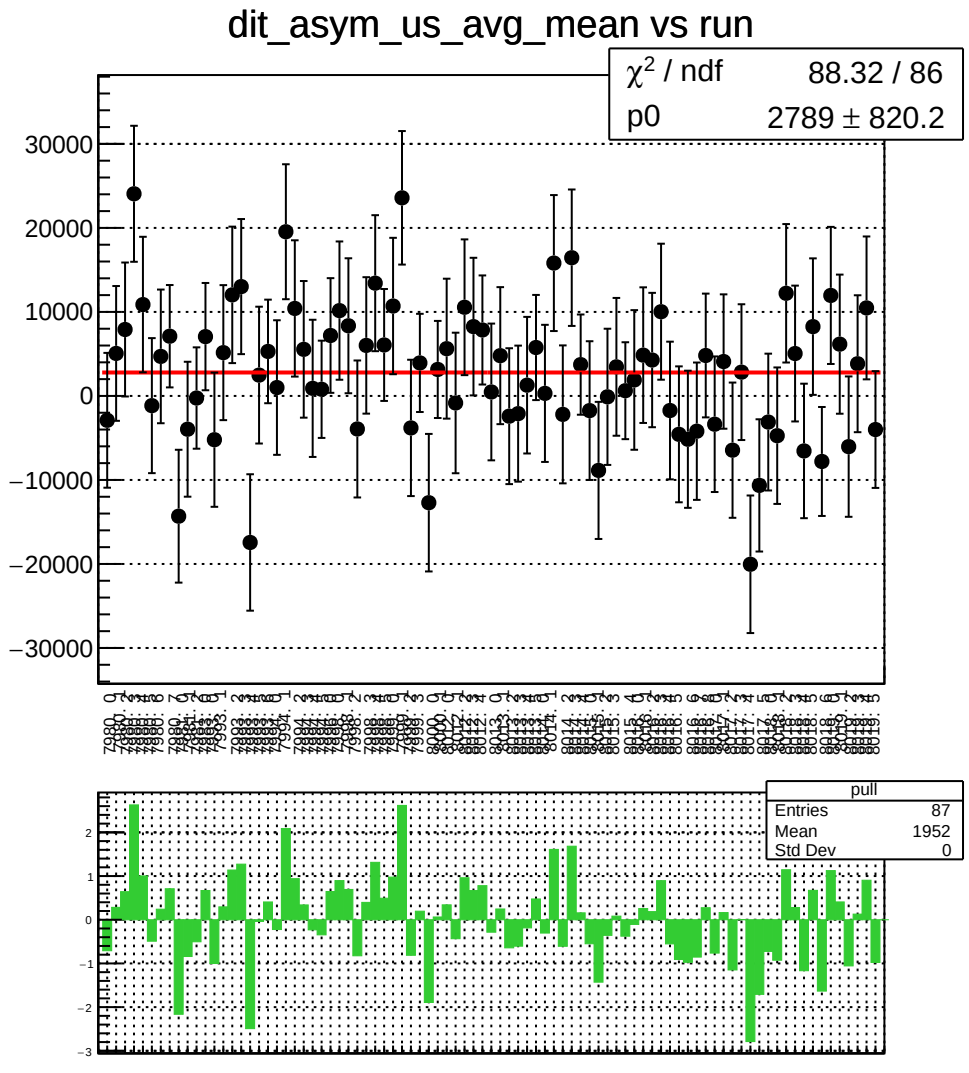

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 85.85 / 86
p0 2703 ± 816.3
pull
Entries 87
Mean 1473
Std Dev 0
pull1D
Entries 87
Mean −0.003918
Std Dev 0.9933

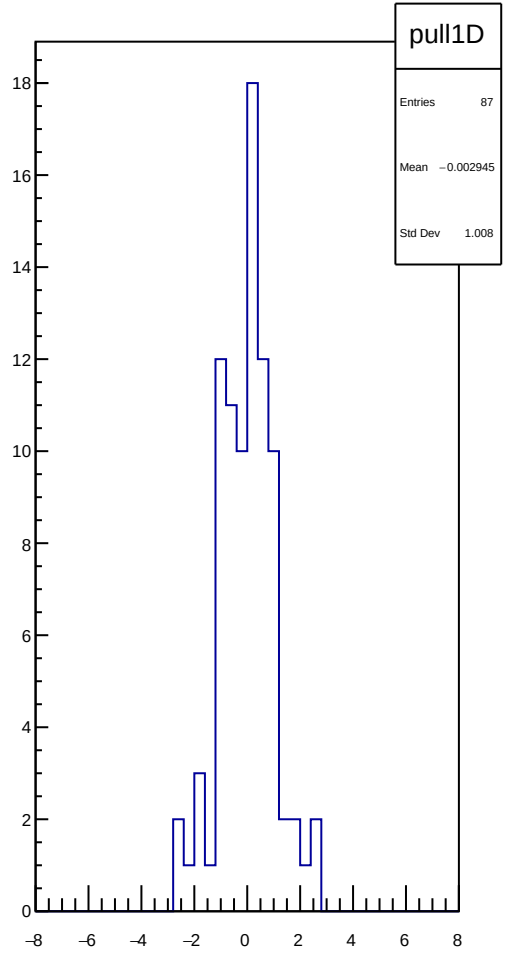

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 236.4 / 86
p0 765.9 ± 0.5772
810
800
790
780
770
760
750
740

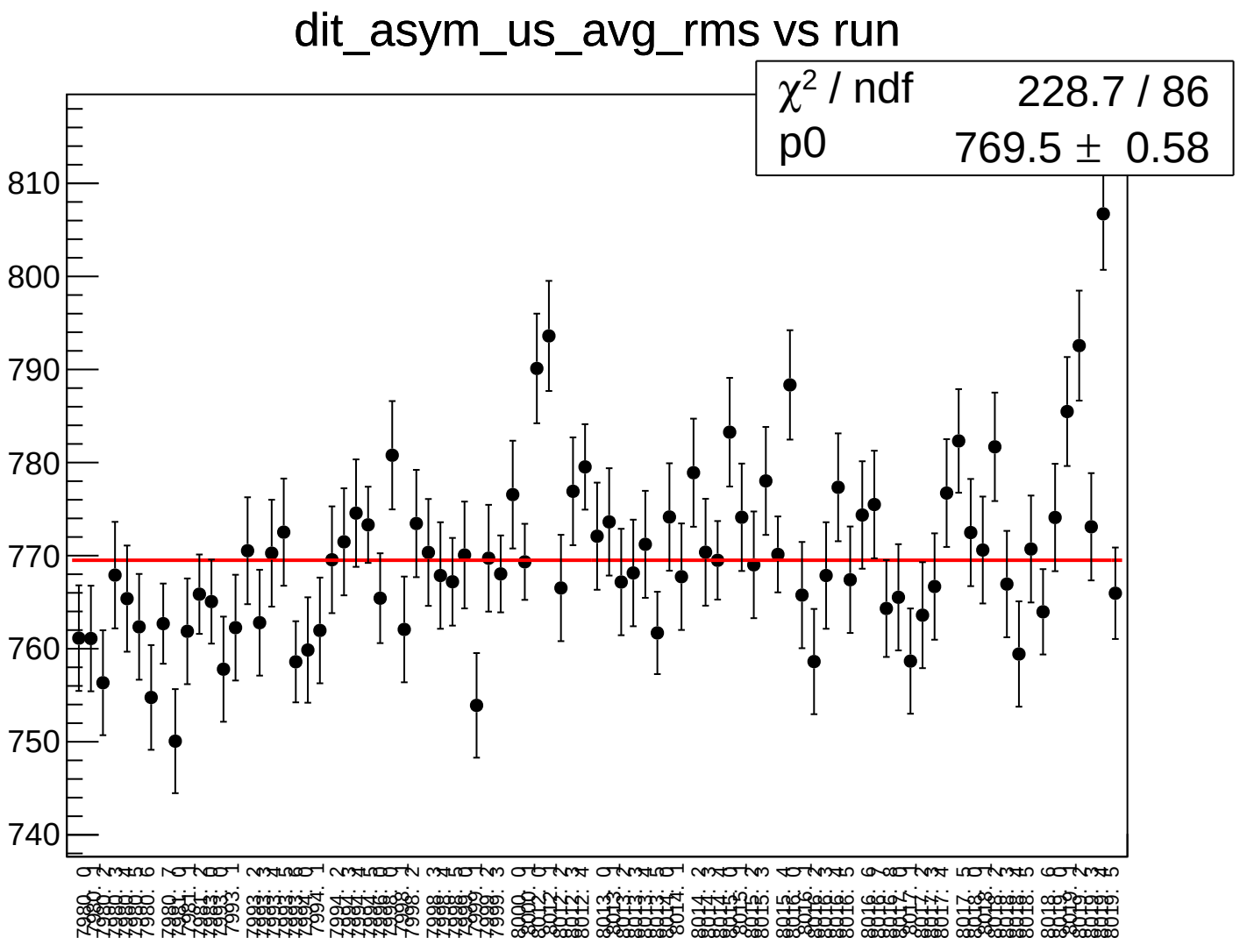

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.26 / 86
p0 −3400 ± 1727
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 1800
Std Dev 0
2
1
0
−1
−2
−3

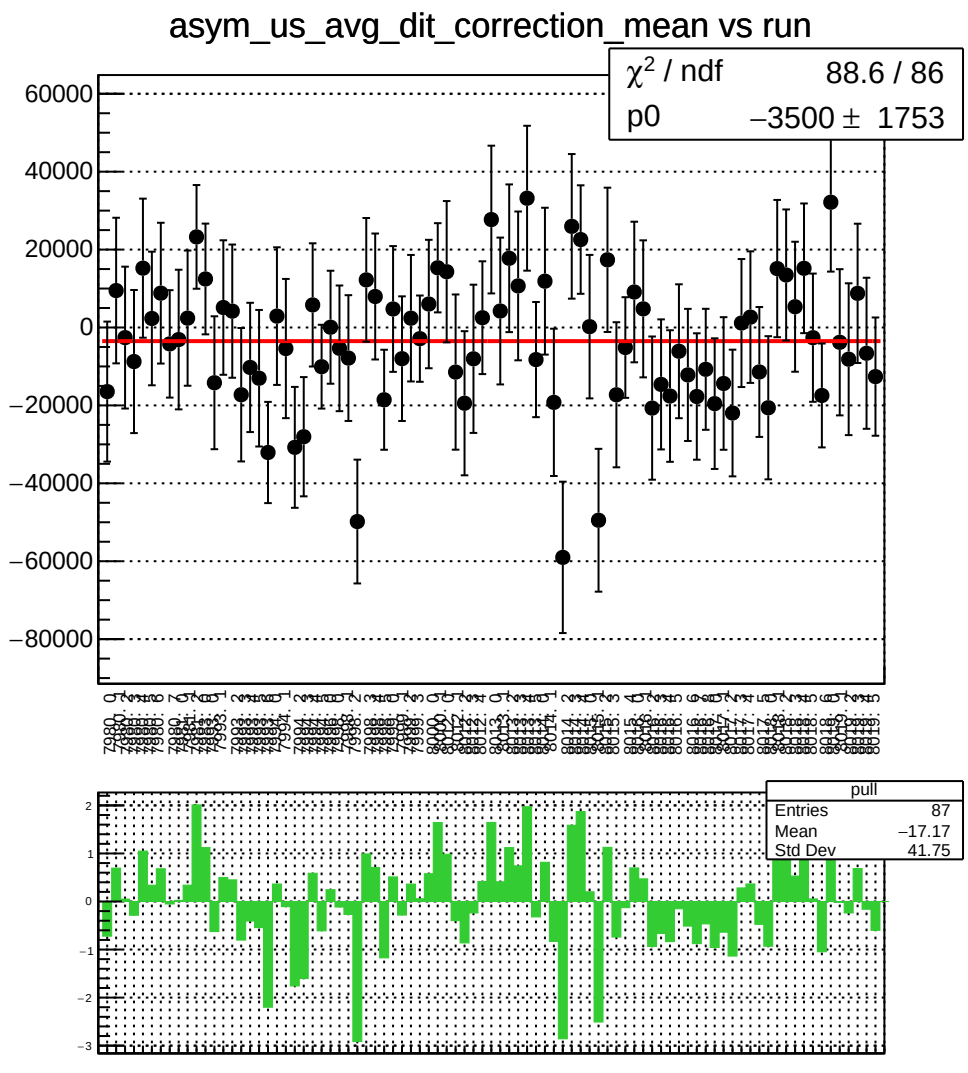

pull1D
Entries 87
Mean −0.0001747
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

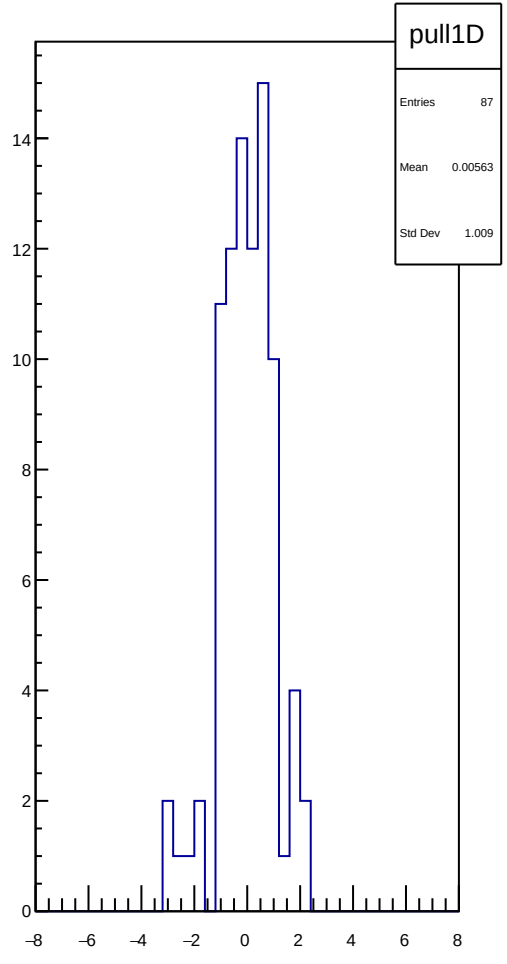

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 6875 / 86
p0 1618 ± 1.221
1900
1800
1700
1600
1500
1400

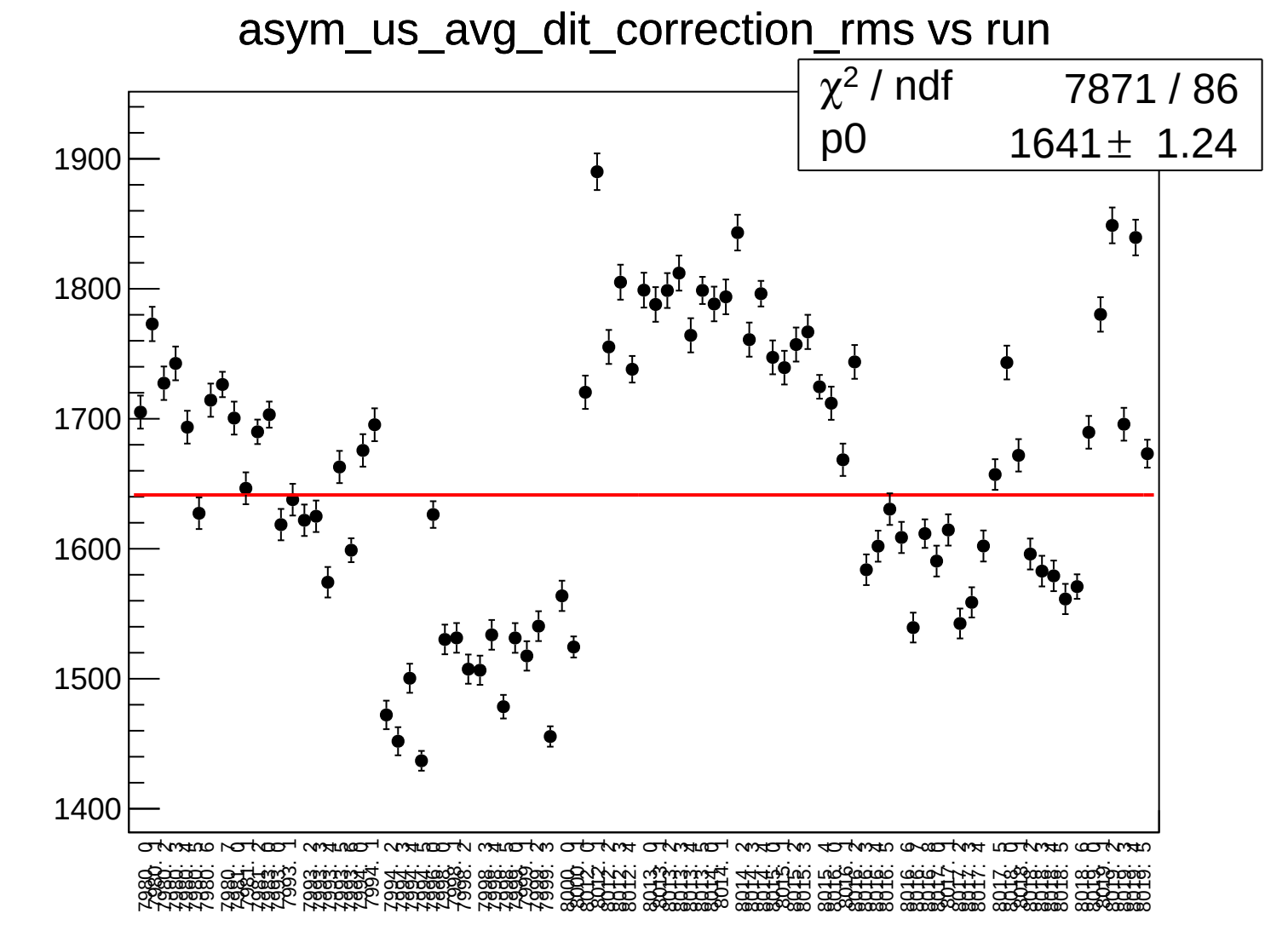

dit_asym_us_avg_mean vs run
χ² / ndf 88.32 / 86
p0 2789 ± 820.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 1952
Std Dev 0
2
1
0
−1
−2
−3

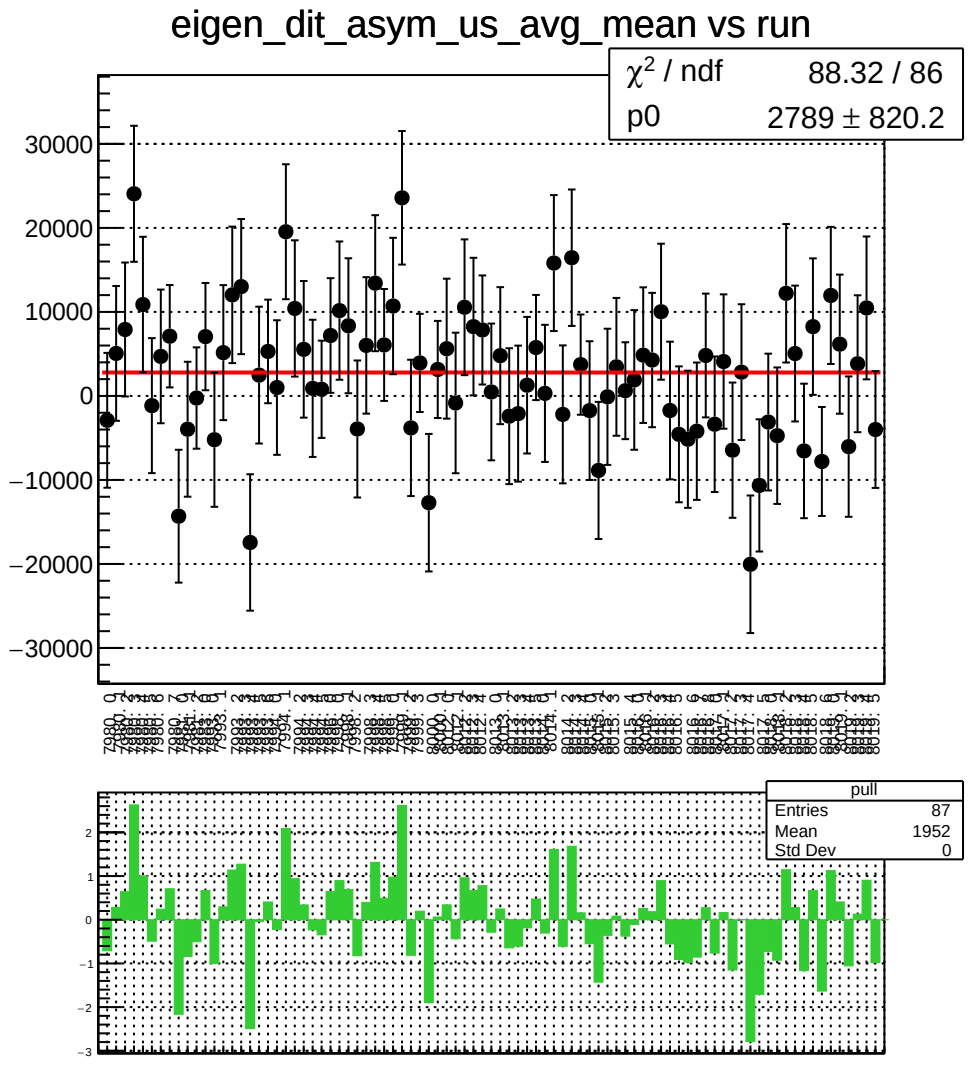

pull1D
Entries 87
Mean −0.002945
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

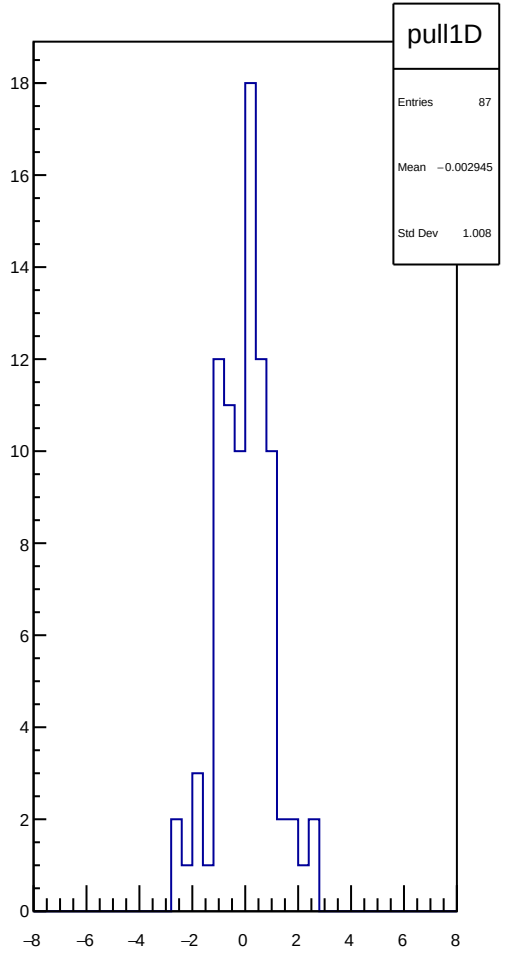

dit_asym_us_avg_rms vs run
χ² / ndf 228.7 / 86
p0 769.5 ± 0.58
810
800
790
780
770
760
750
740


asym_us_avg_dit_correction_mean vs run
χ² / ndf 88.6 / 86
p0 −3500 ± 1753
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −17.17
Std Dev 41.75
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean 0.00563
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_dit_correction_rms vs run
χ² / ndf 7871 / 86
p0 1641 ± 1.24
1900
1800
1700
1600
1500
1400


eigen_dit_asym_us_avg_mean vs run
χ^2 / ndf 88.32 / 86
p0 2789 ± 820.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 1952
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean −0.002945
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
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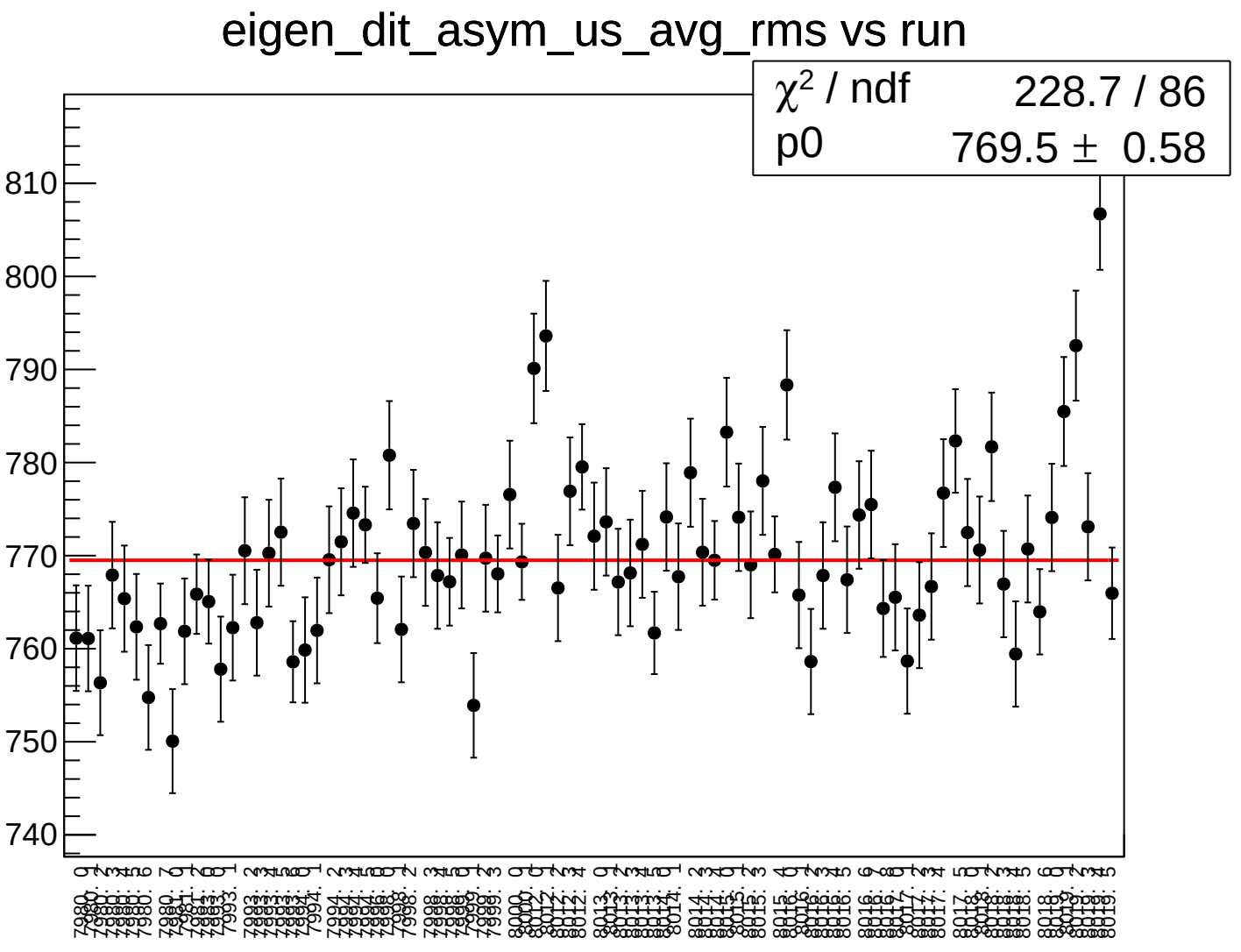
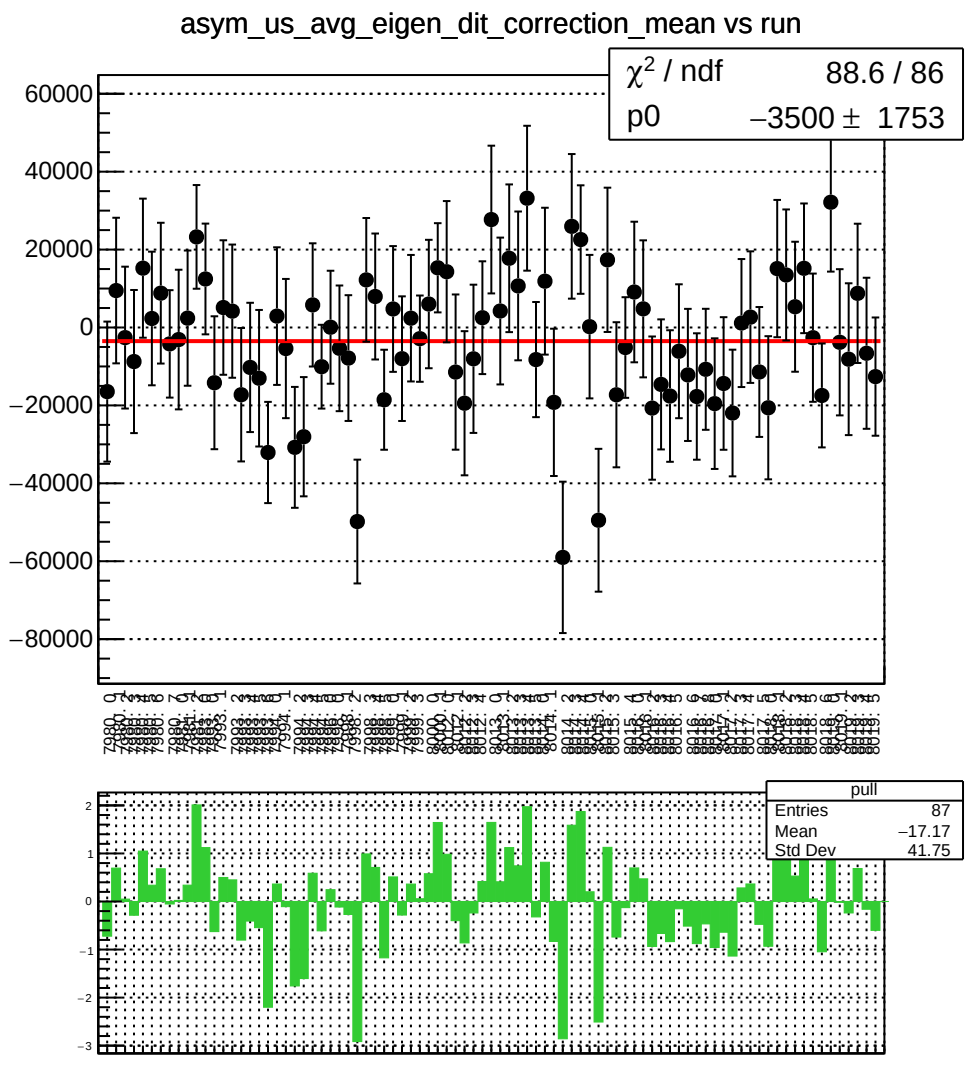
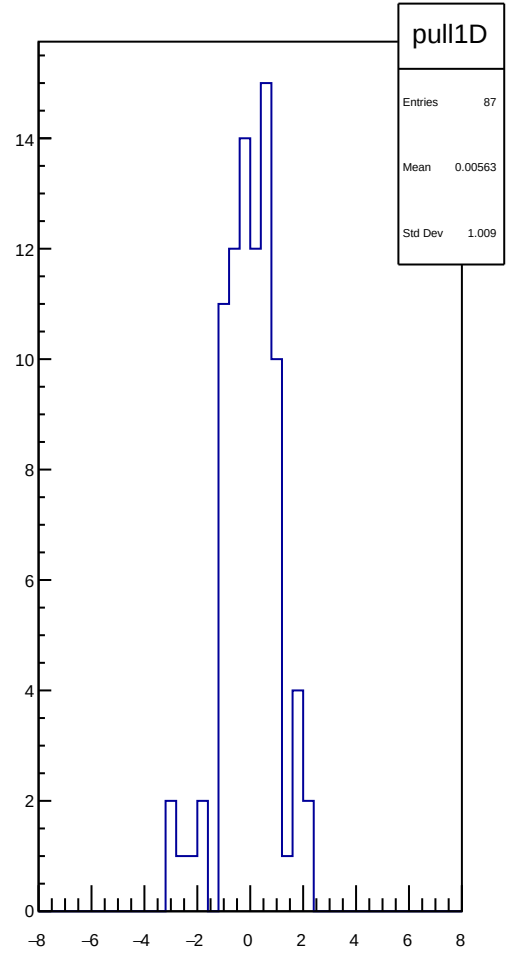
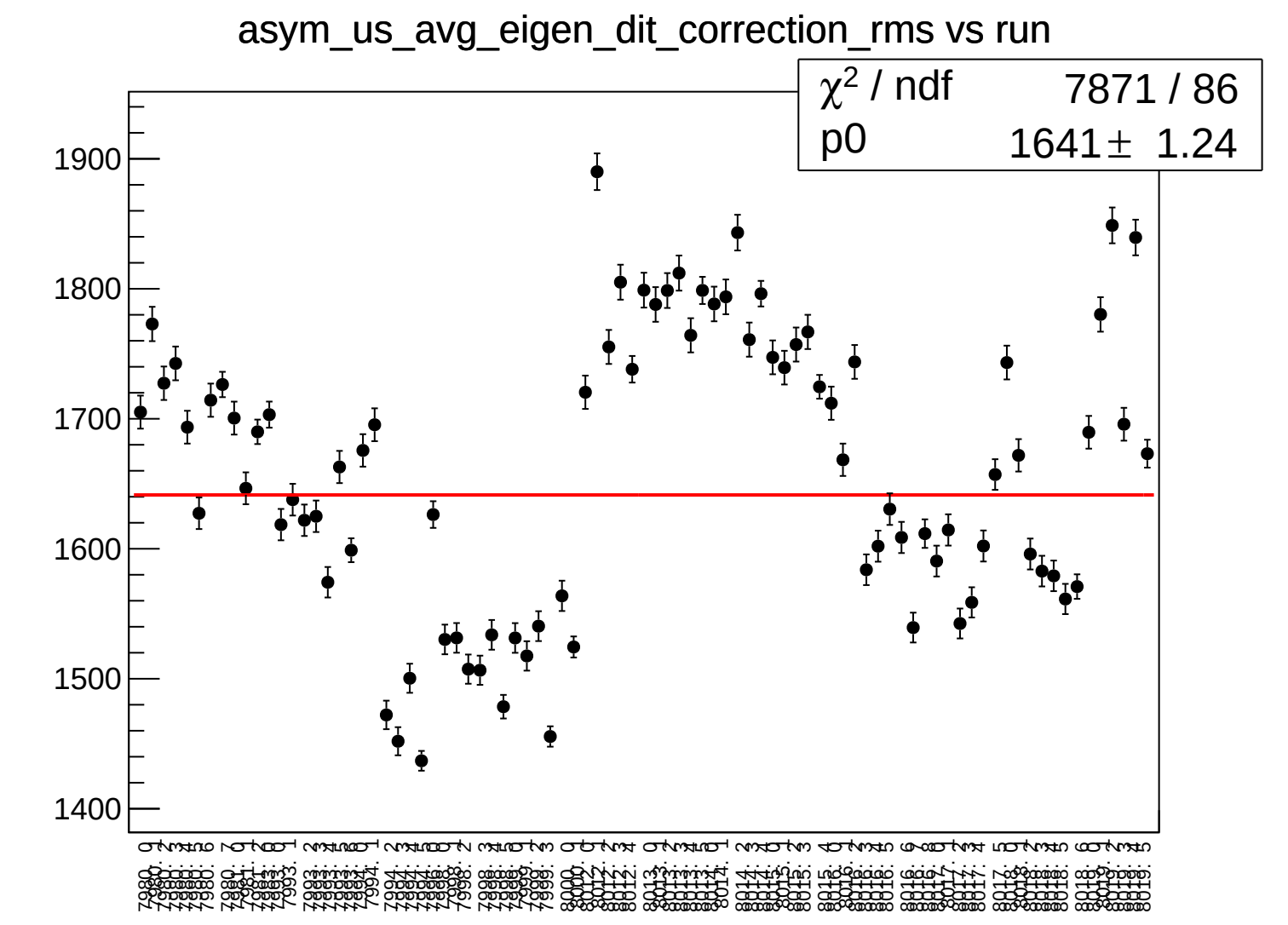
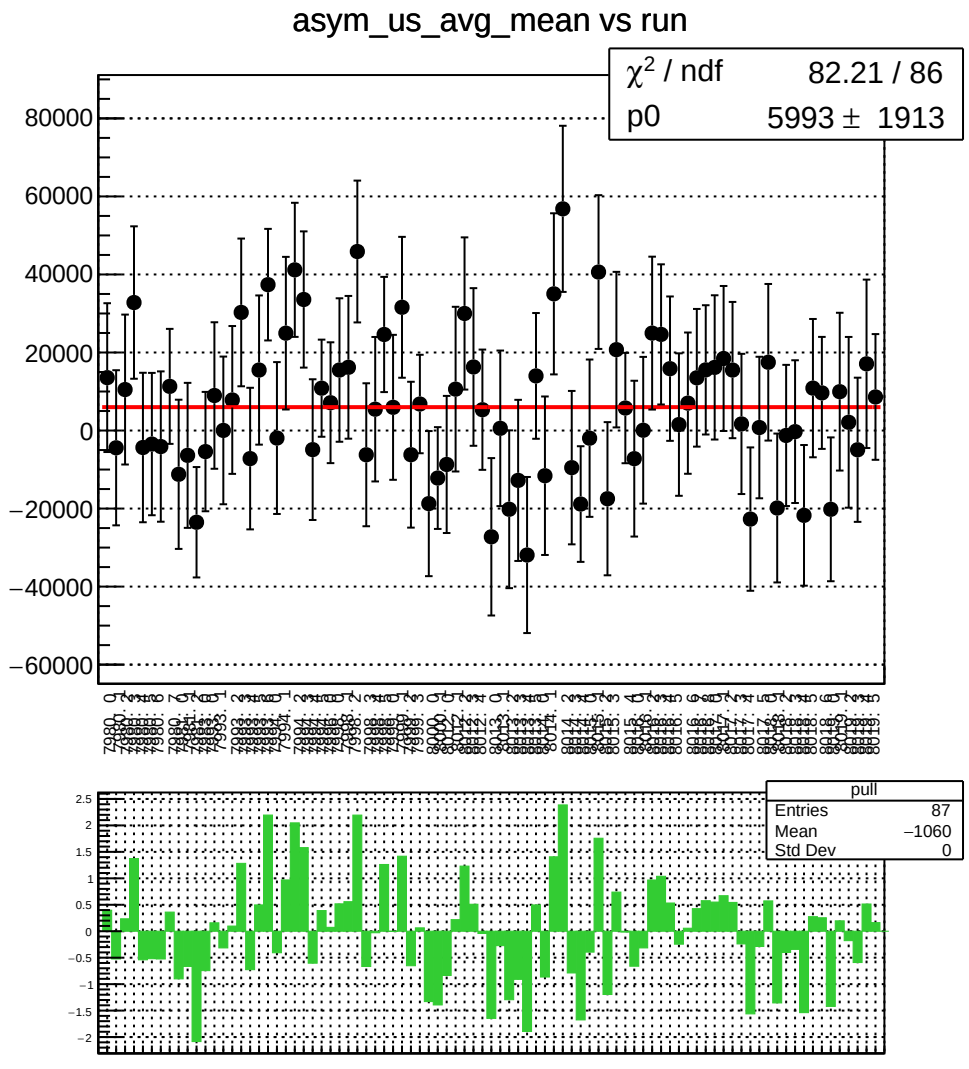
−4
−2
0
2
4
6
8

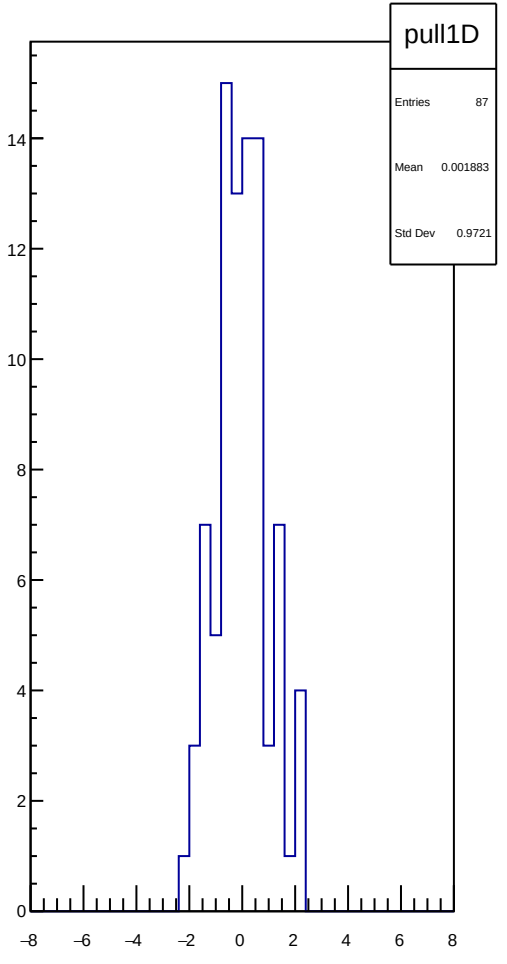

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 228.7 / 86
p0 769.5 ± 0.58
810
800
790
780
770
760
750
740

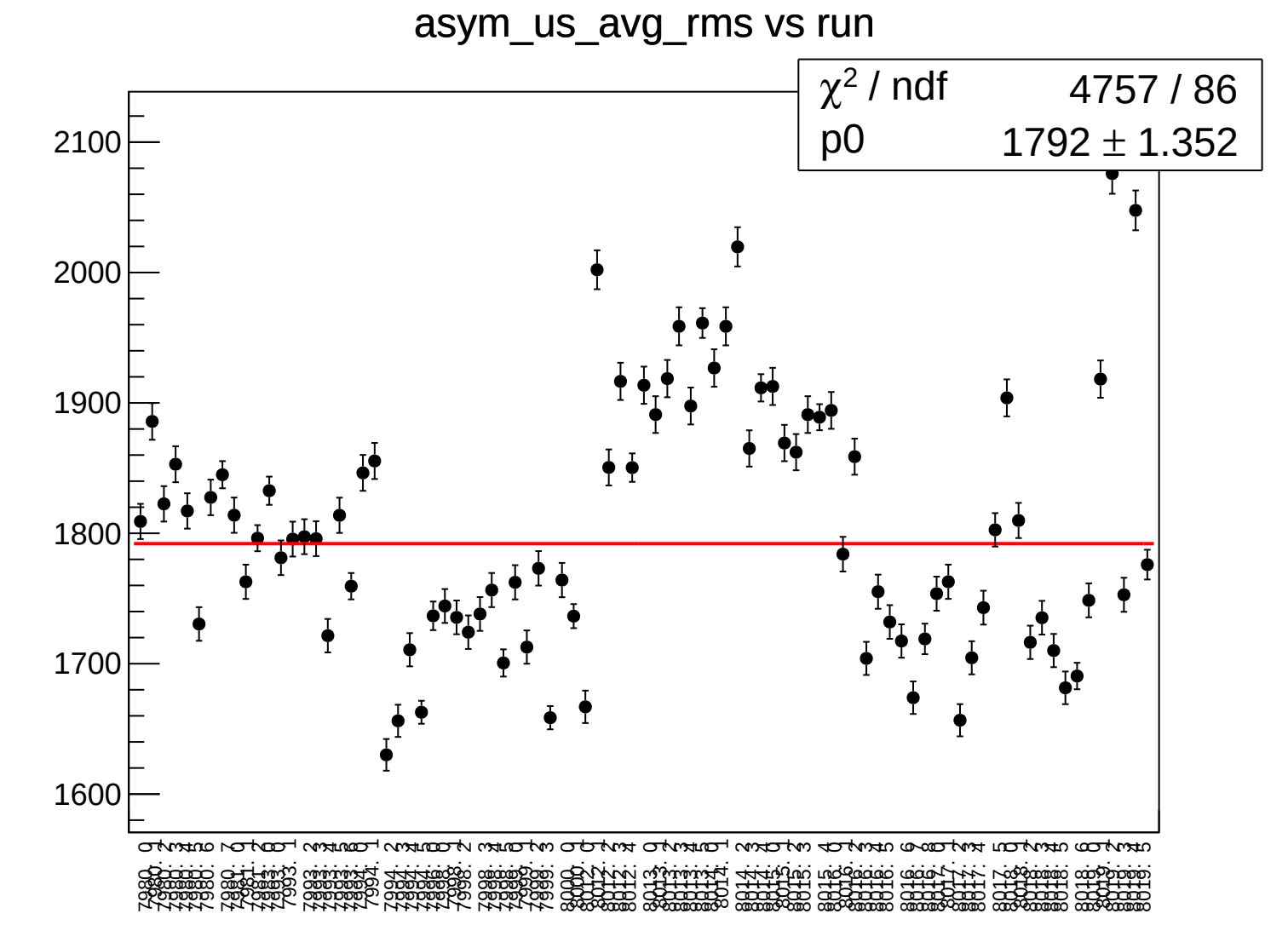

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.6 / 86
p0 −3500 ± 1753
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −17.17
Std Dev 41.75
2
1
0
−1
−2
−3

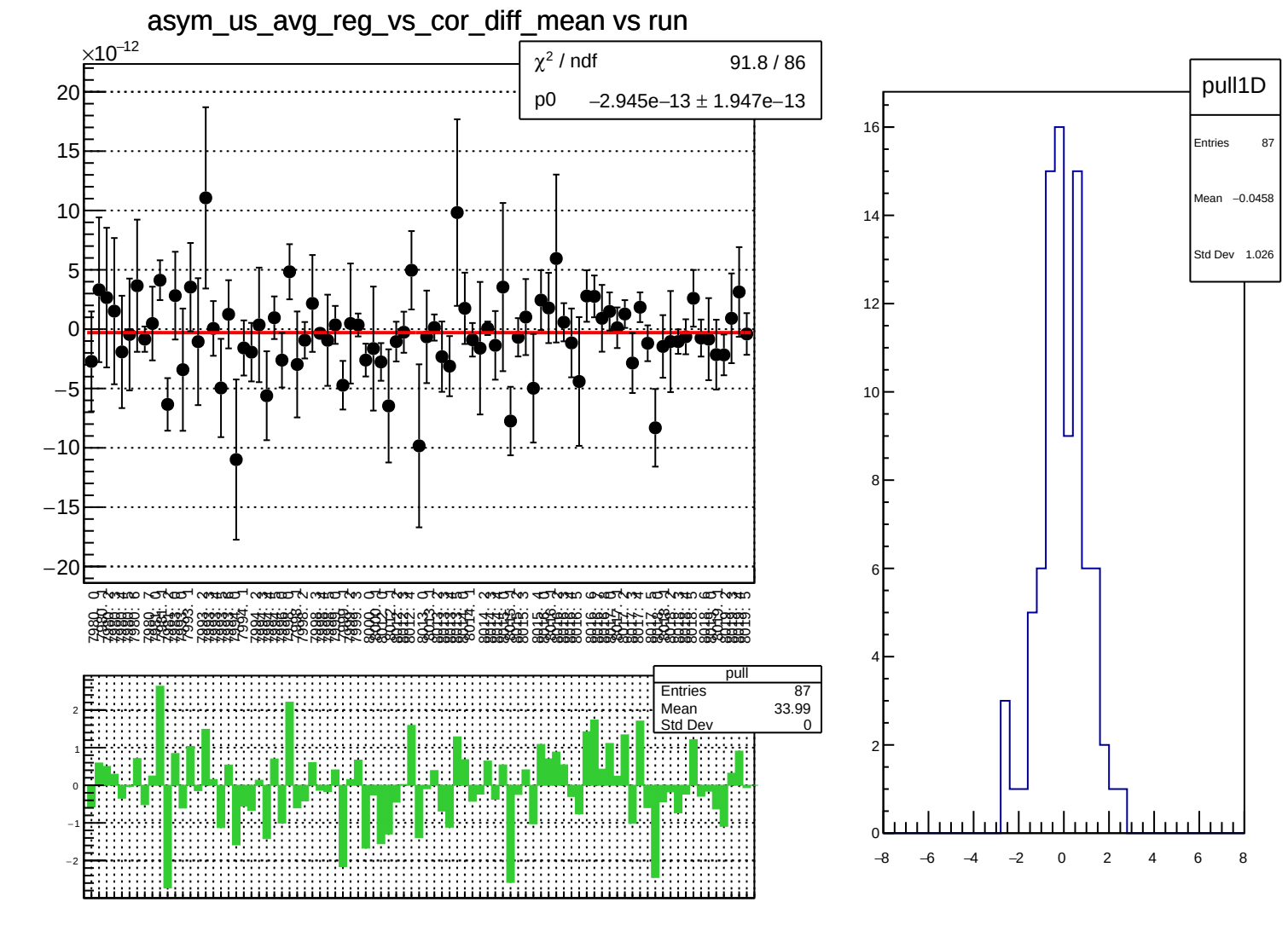

pull1D
Entries 87
Mean 0.00563
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

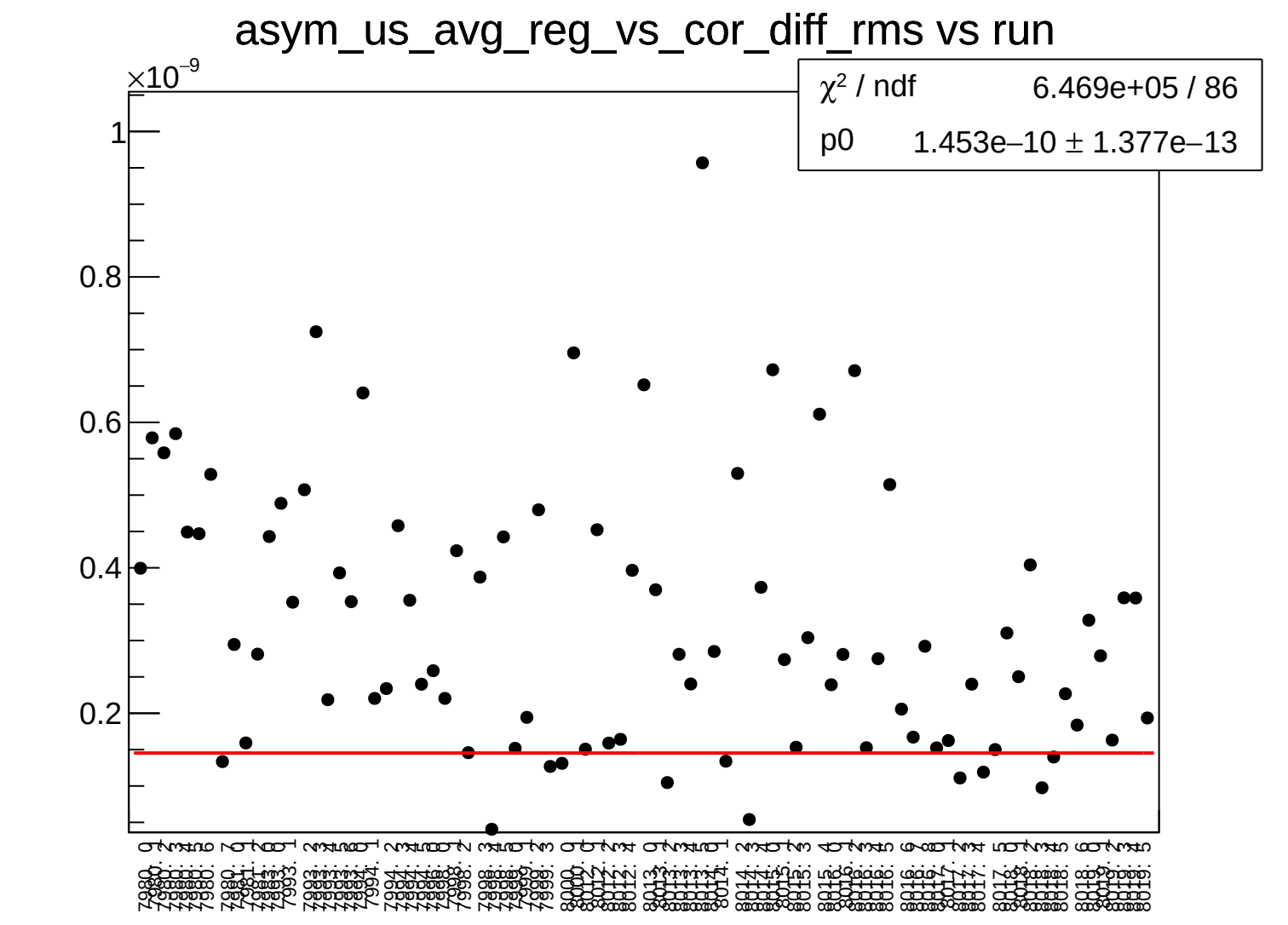

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 7871 / 86
p0 1641 ± 1.24
1900
1800
1700
1600
1500
1400

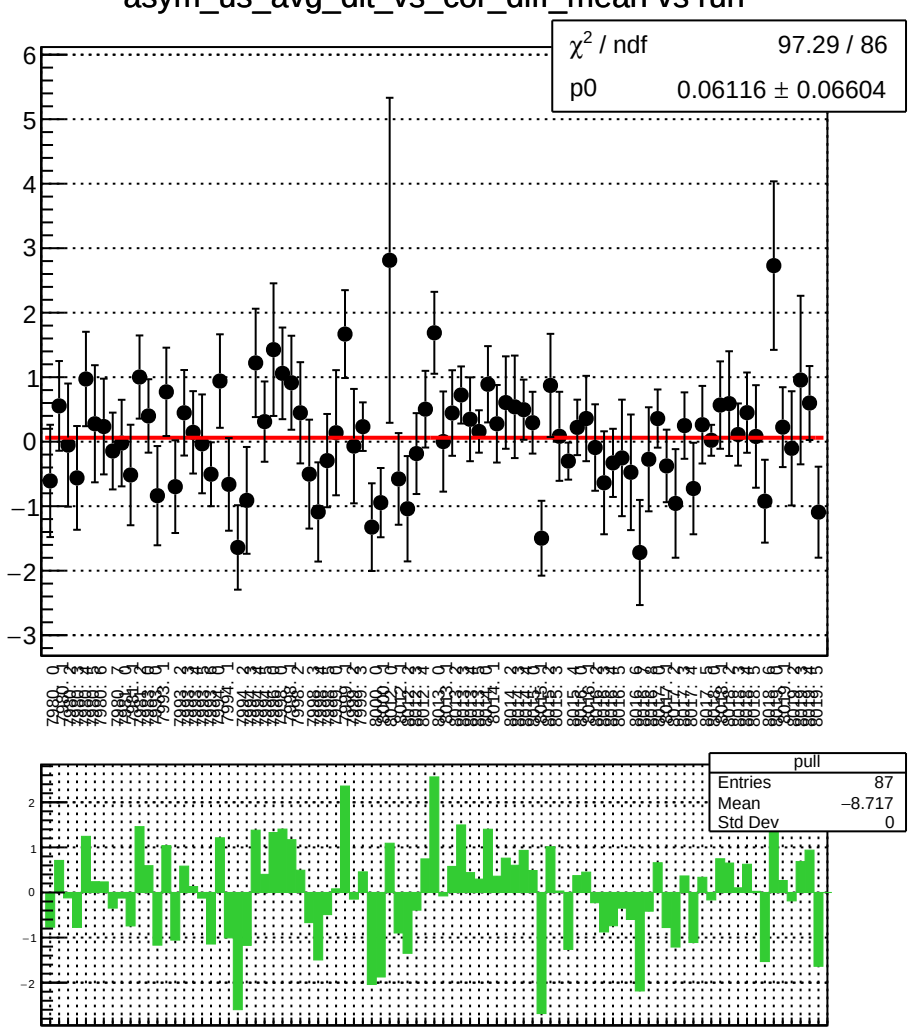

asym_us_avg_mean vs run
χ² / ndf 82.21 / 86
p0 5993 ± 1913
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −1060
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

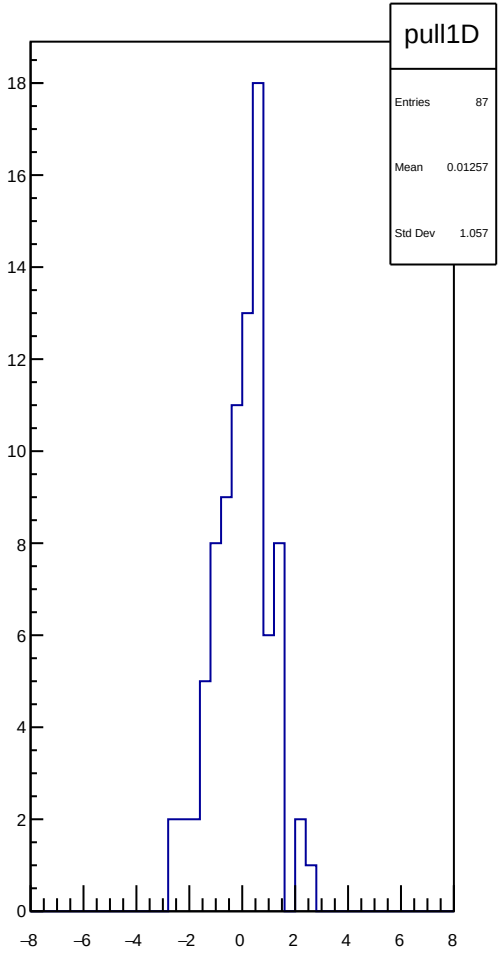

pull1D
Entries 87
Mean 0.001883
Std Dev 0.9721
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

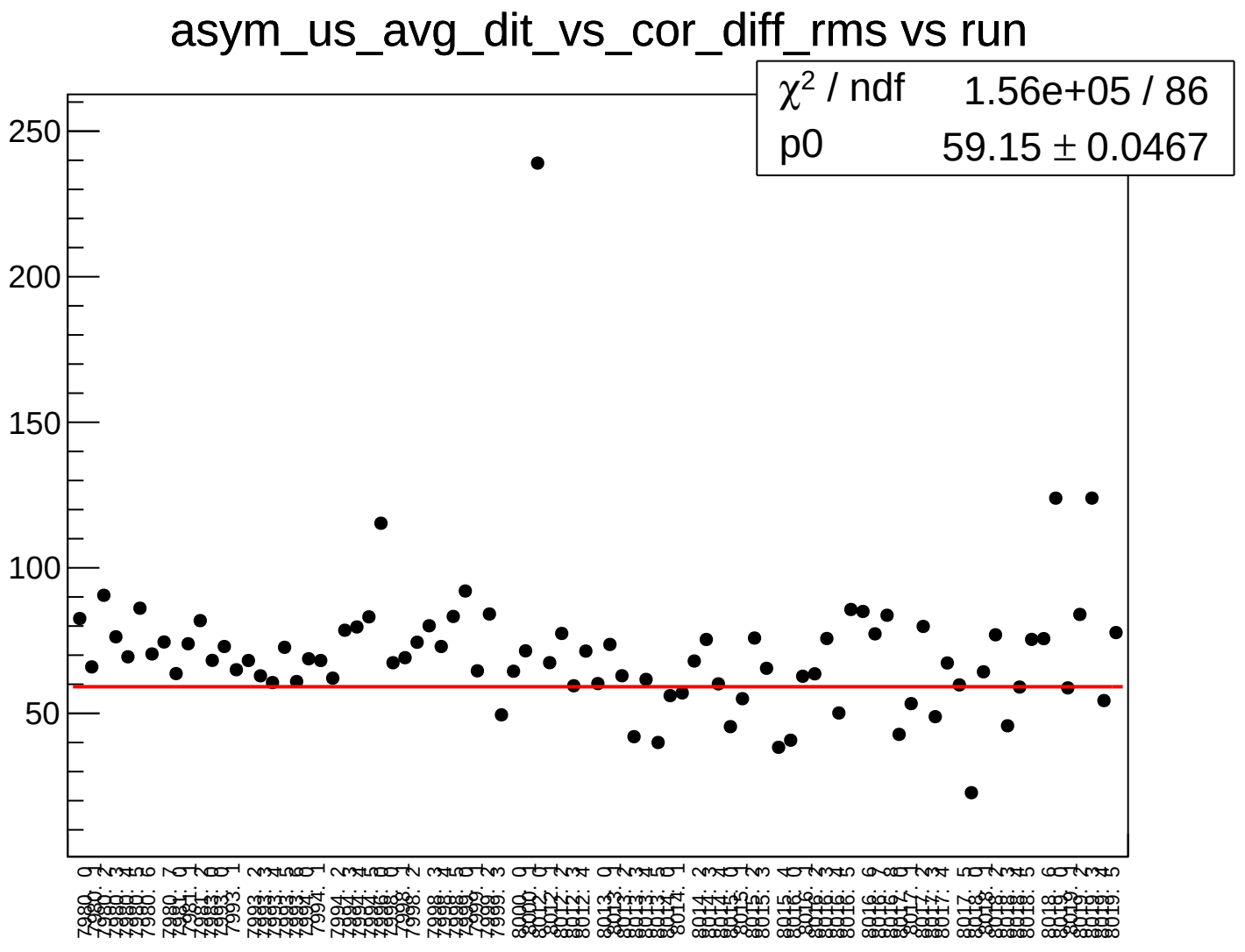

asym_us_avg_rms vs run
χ^2 / ndf 4757 / 86
p0 1792 ± 1.352
2100
2000
1900
1800
1700
1600

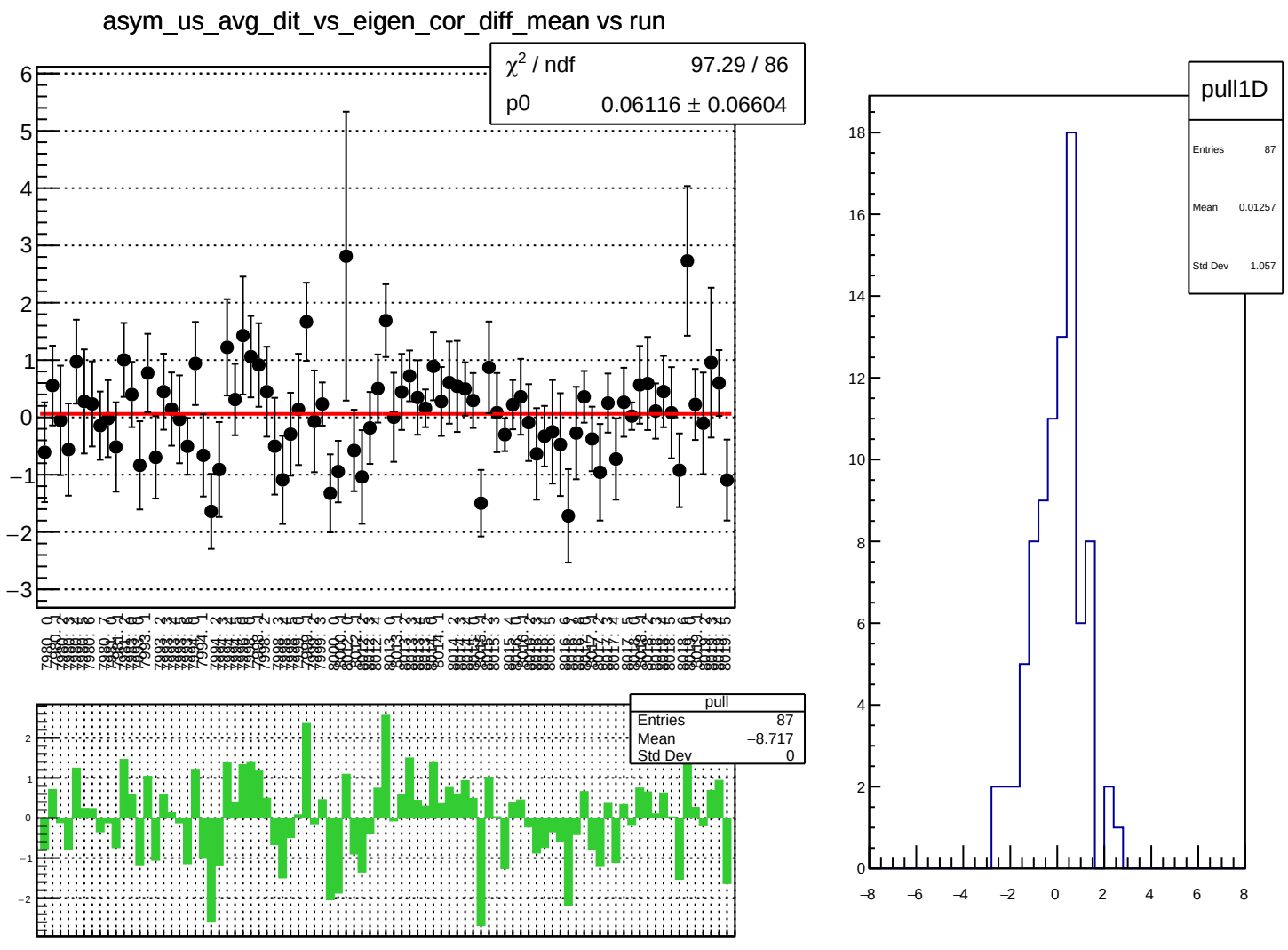

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.8 / 86
p0 −2.945e−13 ± 1.947e−13
pull
Entries 87
Mean 33.99
Std Dev 0
pull1D
Entries 87
Mean −0.0458
Std Dev 1.026

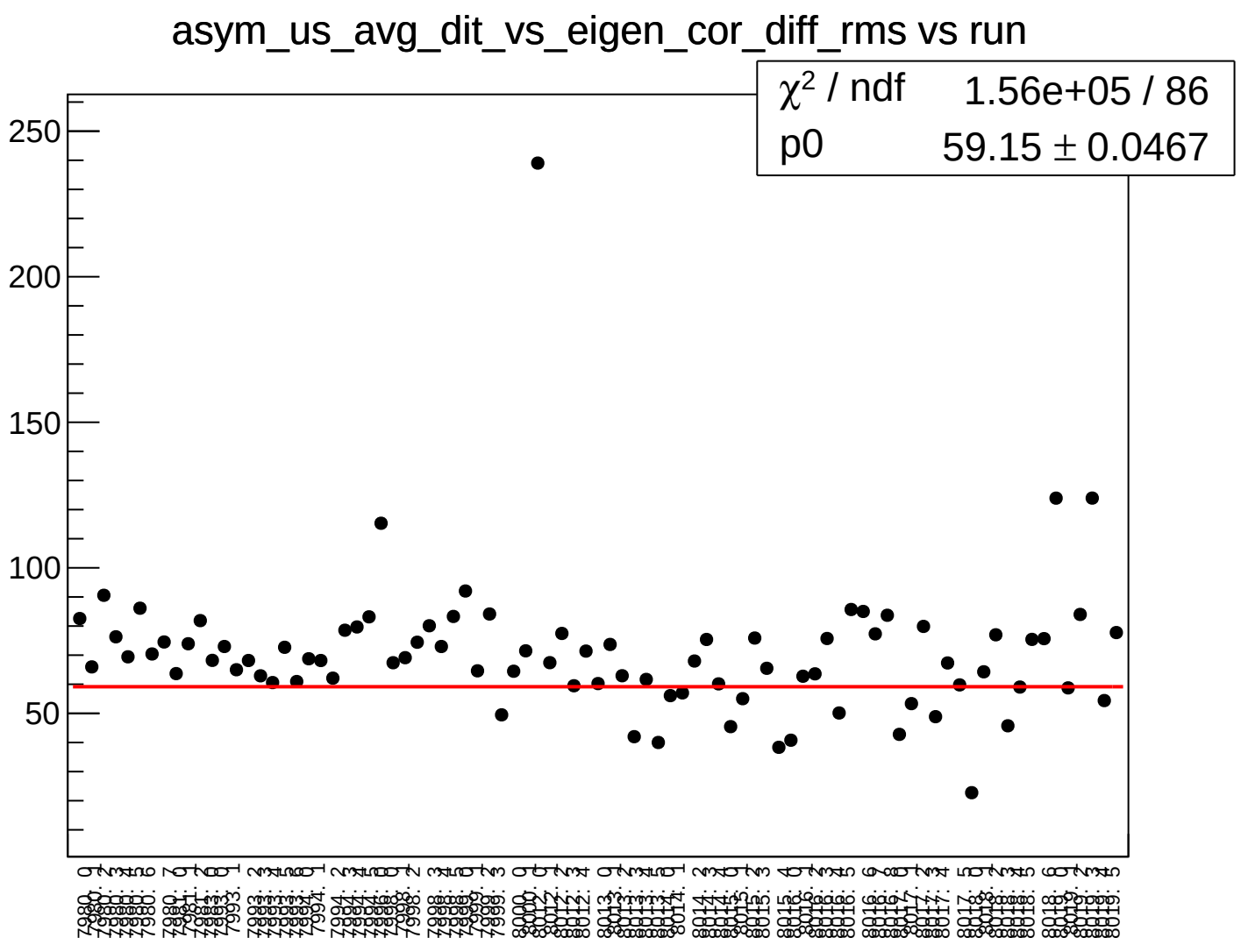

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.469e+05 / 86
p0 1.453e−10 ± 1.377e−13
1
0.8
0.6
0.4
0.2

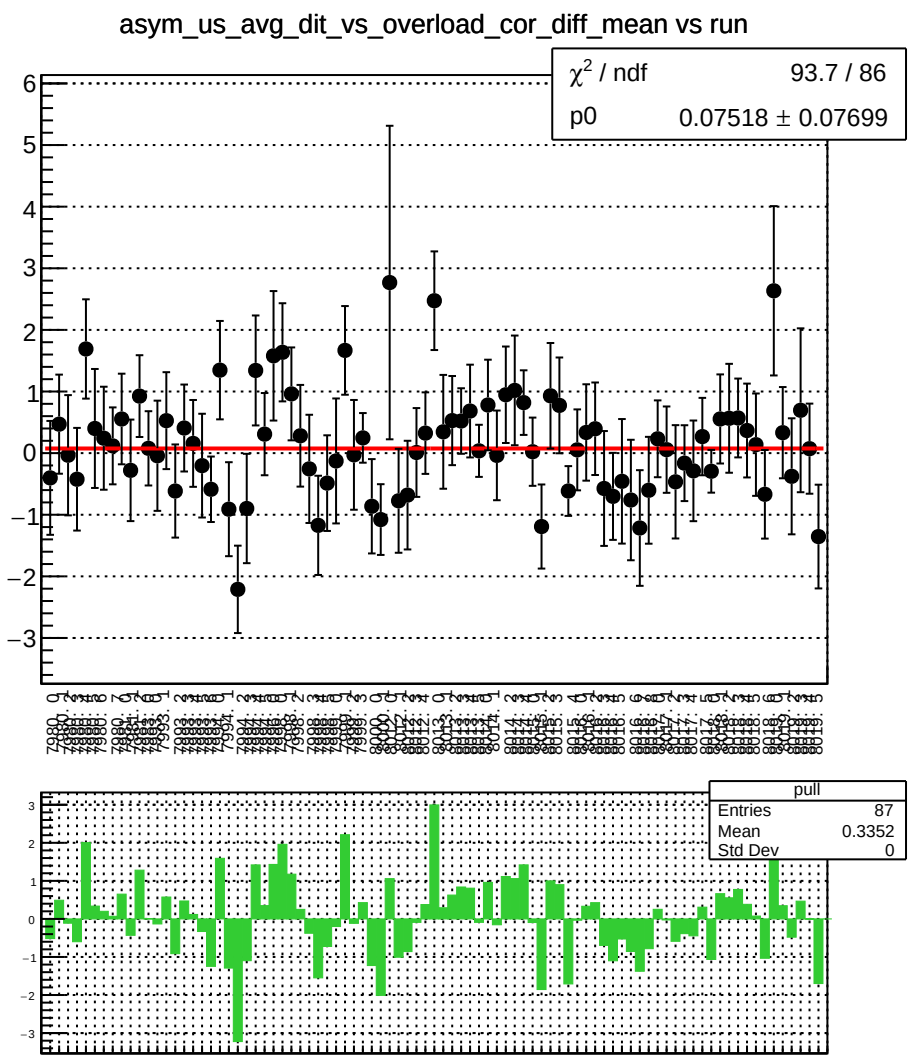

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.29 / 86
p0 0.06116 ± 0.06604
pull
Entries 87
Mean −8.717
Std Dev 0

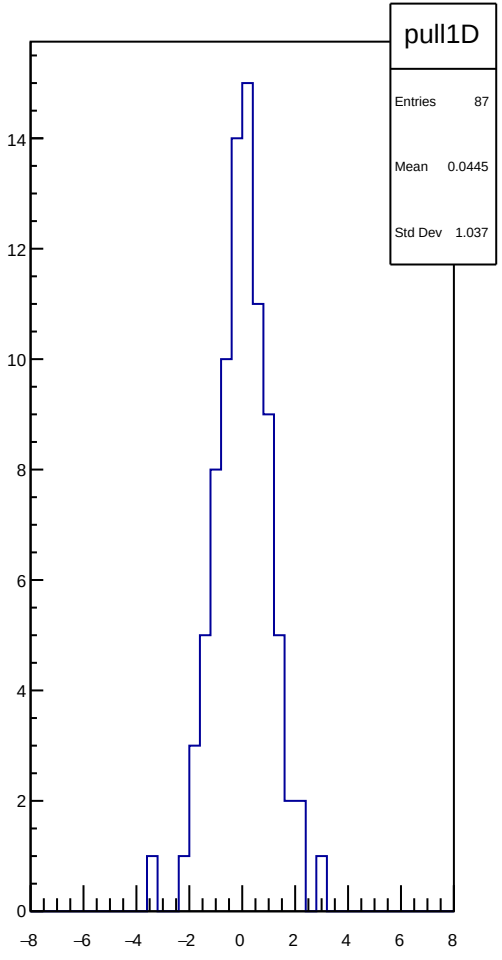

pull1D
Entries 87
Mean 0.01257
Std Dev 1.057

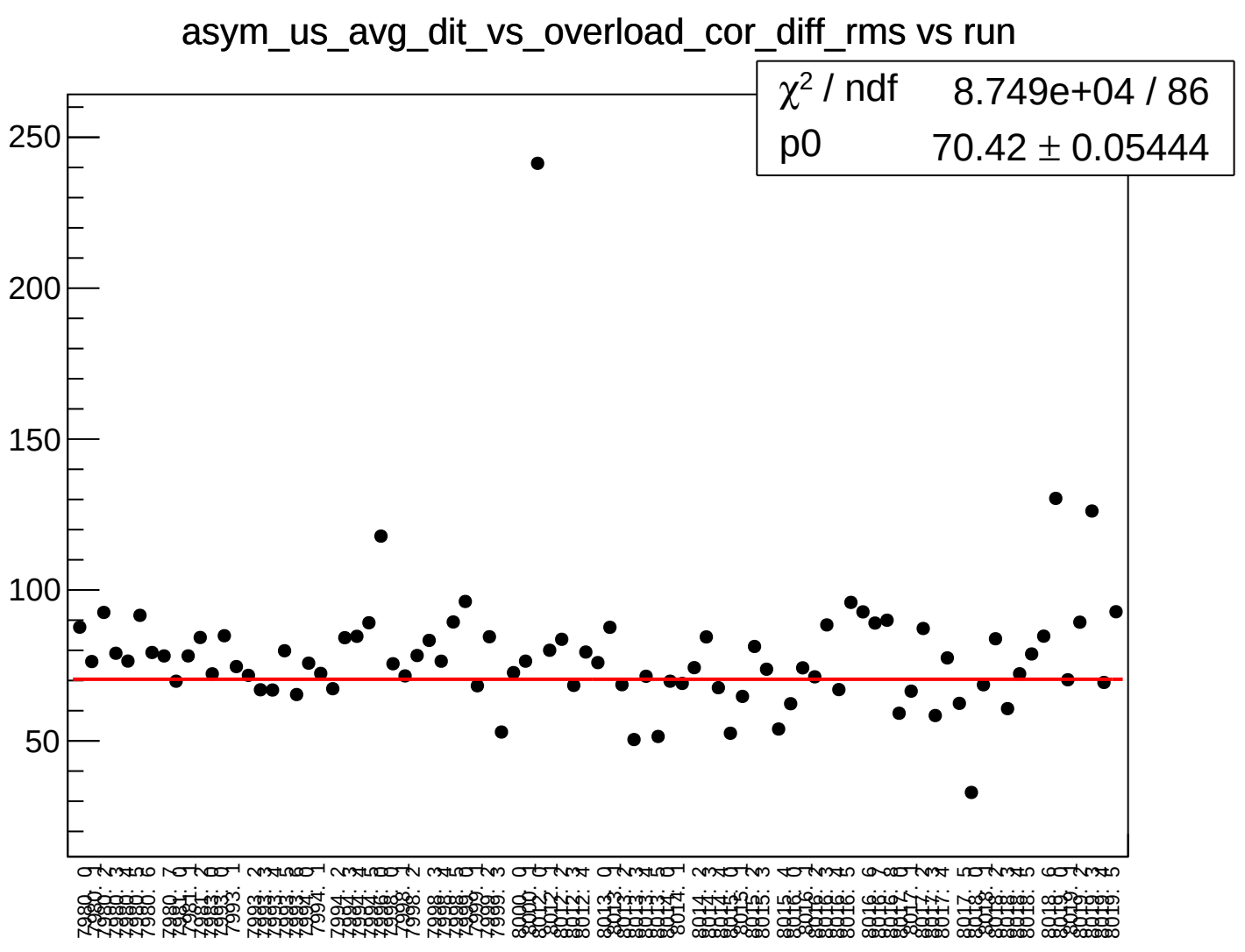

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.56e+05 / 86
p0 59.15 ± 0.0467
250
200
150
100
50

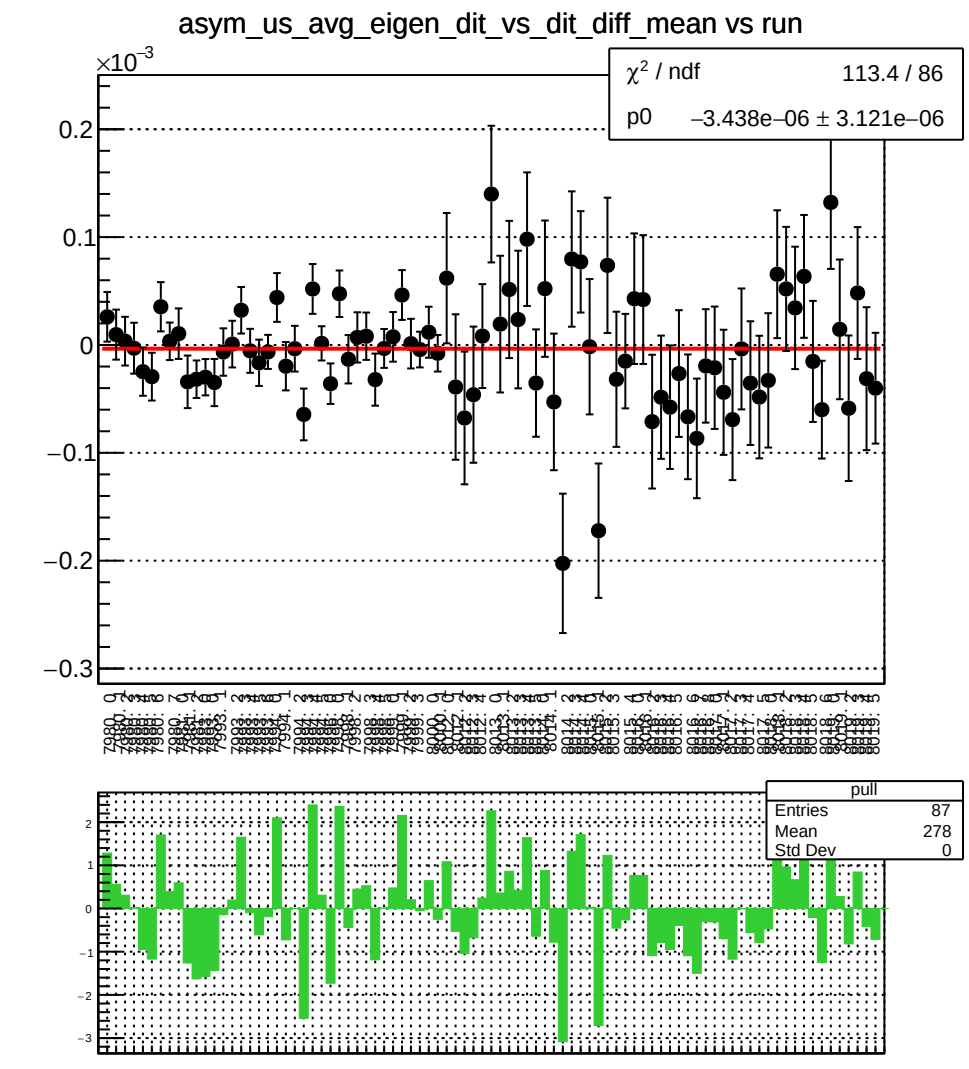

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.29 / 86
p0 0.06116 ± 0.06604
pull
Entries 87
Mean −8.717
Std Dev 0
pull1D
Entries 87
Mean 0.01257
Std Dev 1.057

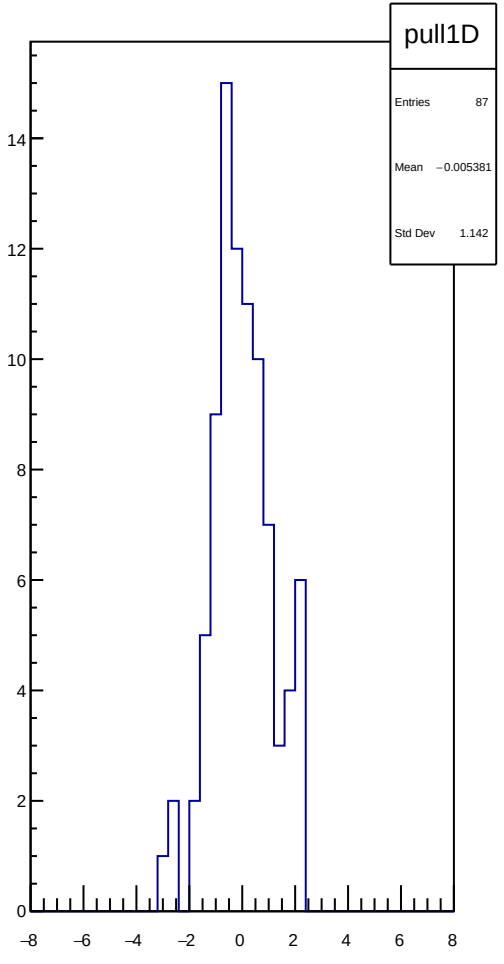

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.56e+05 / 86
p0 59.15 ± 0.0467
250
200
150
100
50

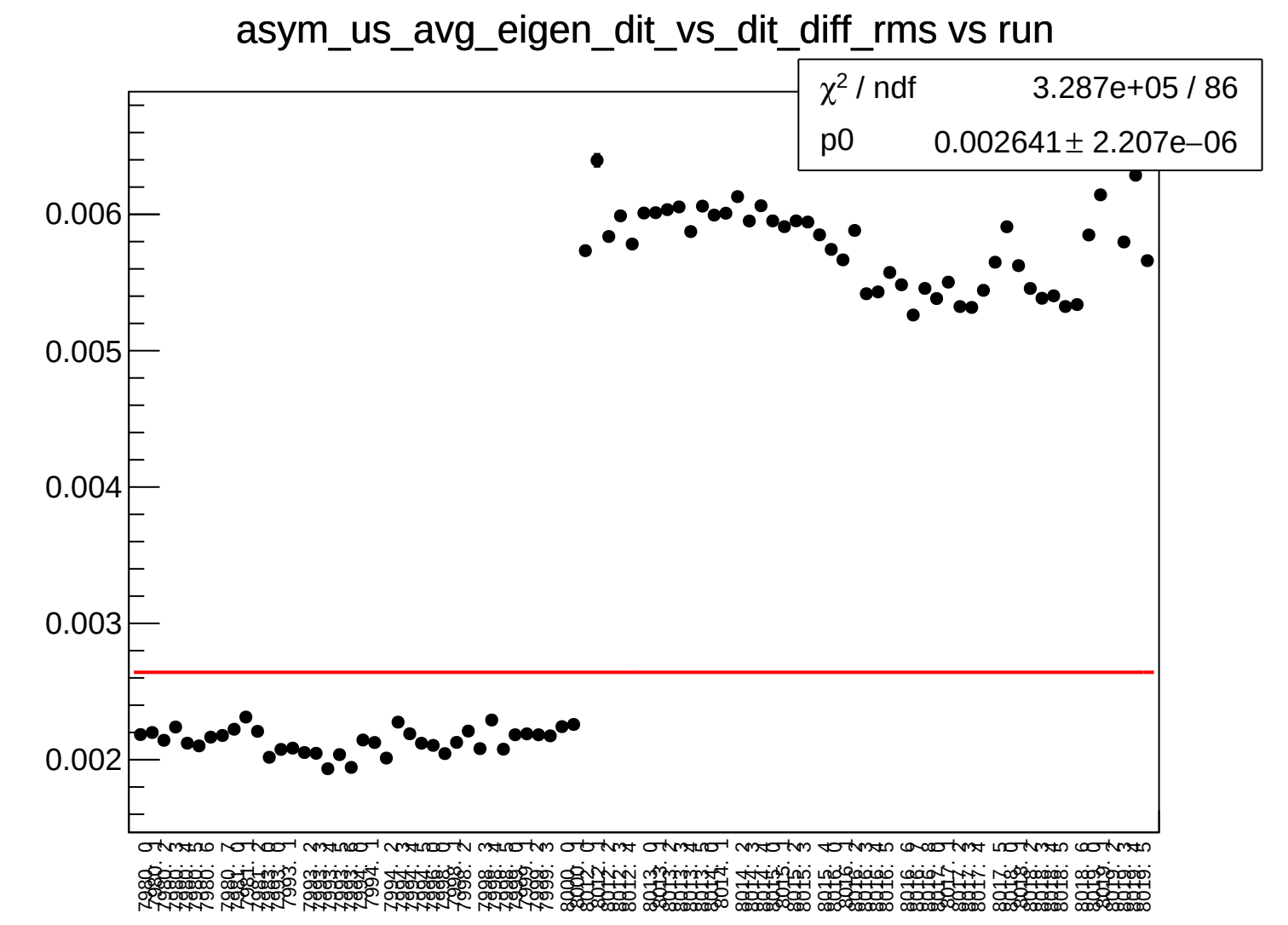

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 93.7 / 86
p0 0.07518 ± 0.07699
pull
Entries 87
Mean 0.3352
Std Dev 0

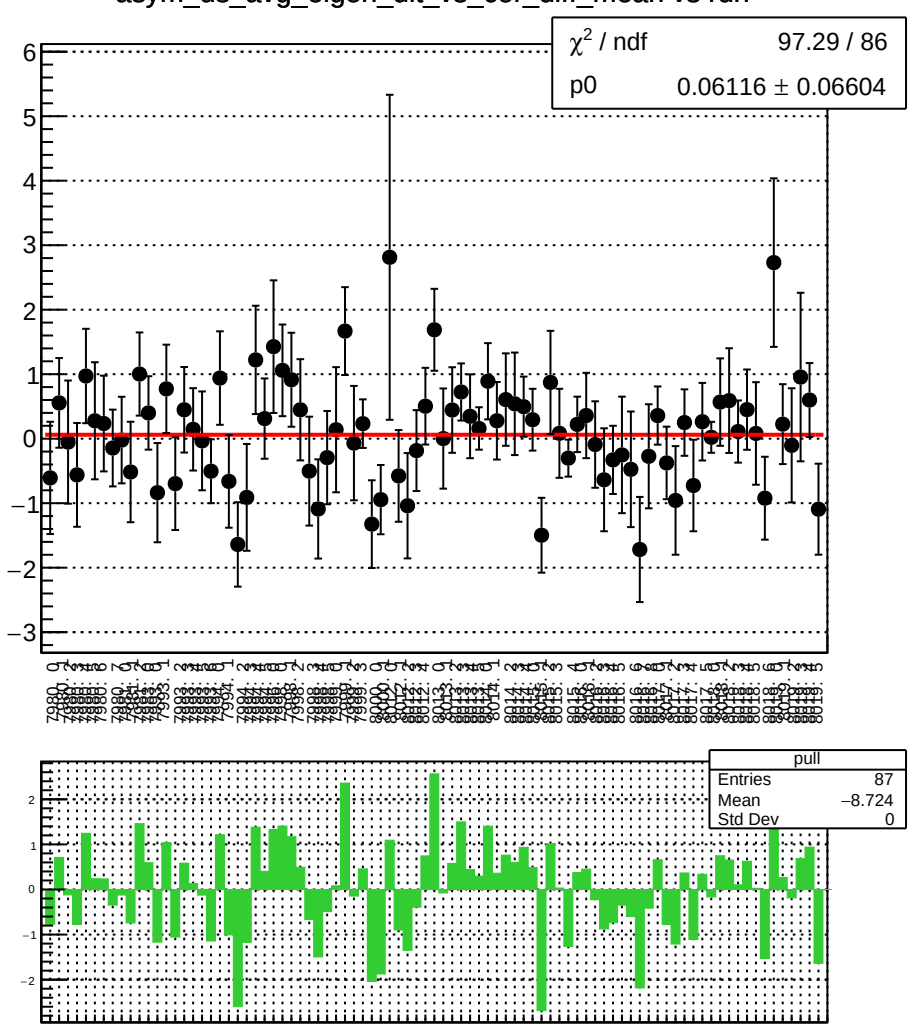

pull1D
Entries 87
Mean 0.0445
Std Dev 1.037

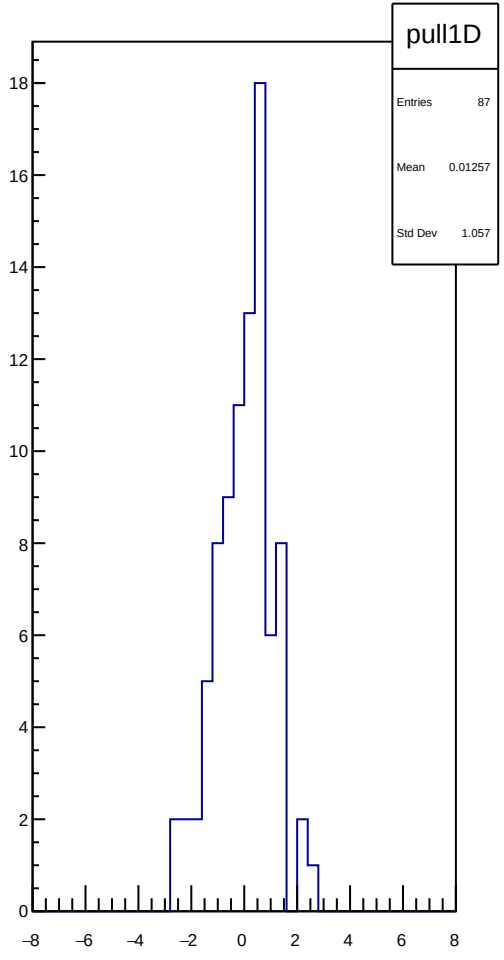

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.749e+04 / 86
p0 70.42 ± 0.05444
250
200
150
100
50

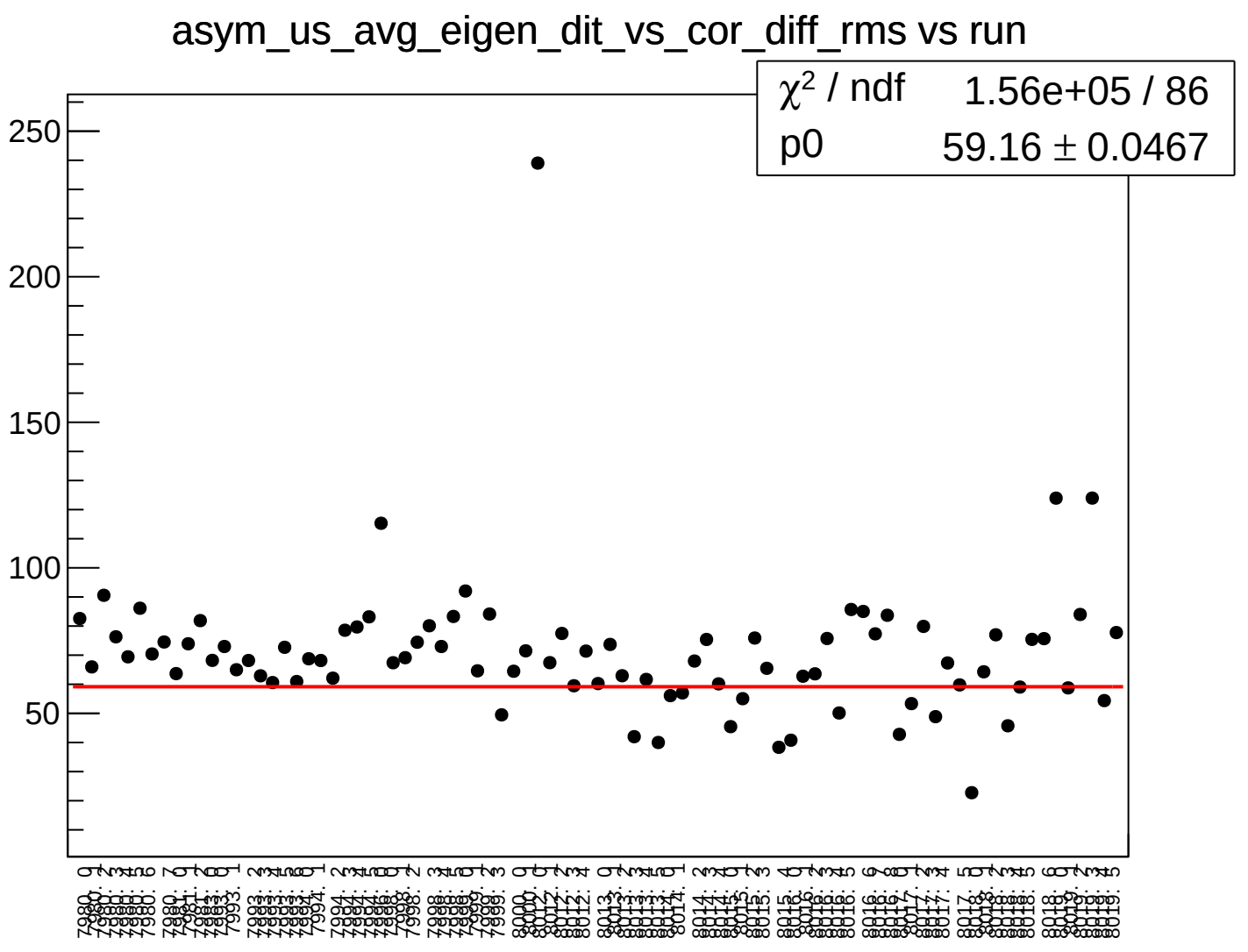

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.4 / 86
p0 −3.438e−06 ± 3.121e−06
pull
Entries 87
Mean 278
Std Dev 0

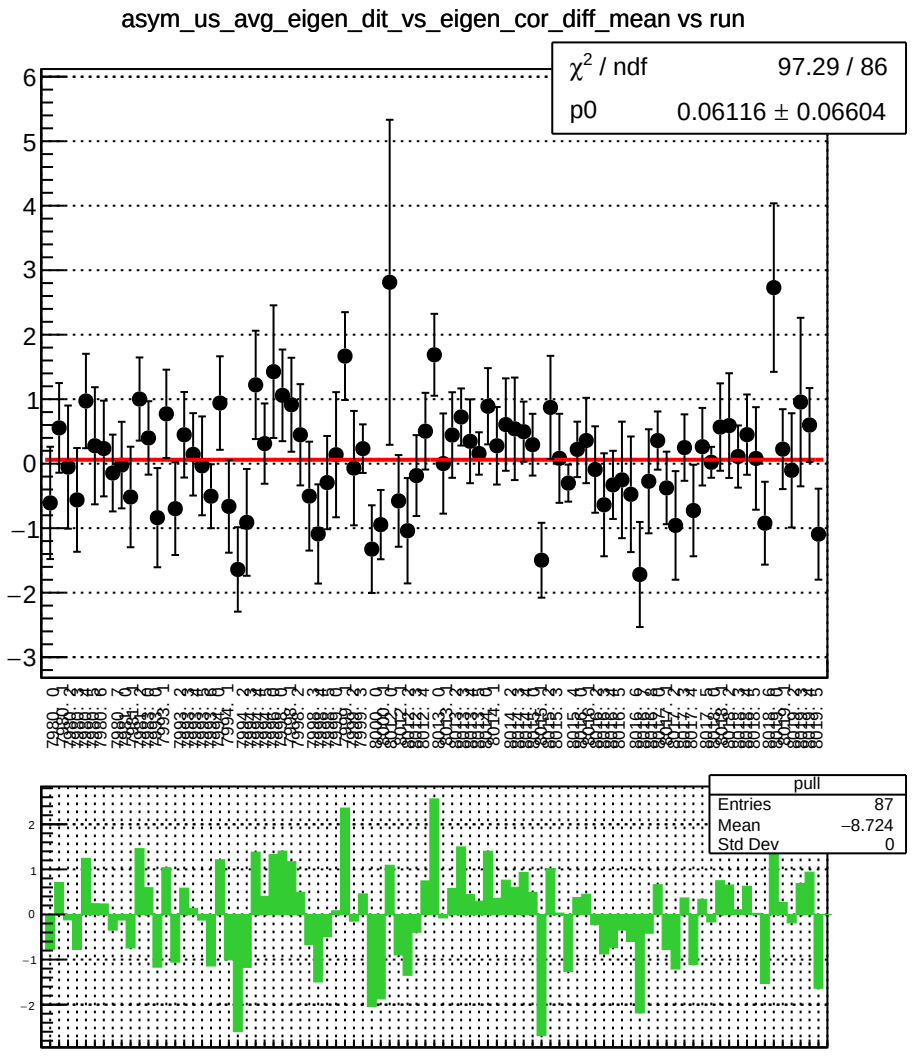

pull1D
Entries 87
Mean −0.005381
Std Dev 1.142

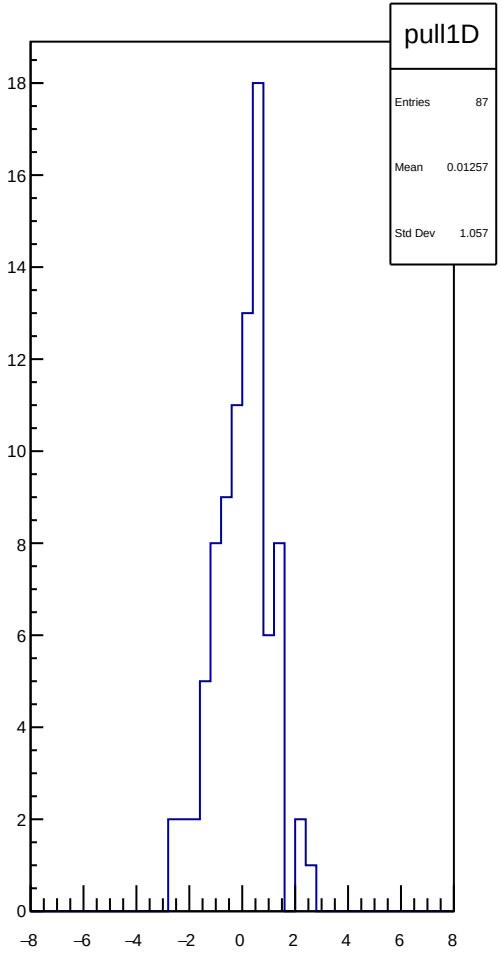

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.287e+05 / 86
p0 0.002641 ± 2.207e−06
0.006
0.005
0.004
0.003
0.002

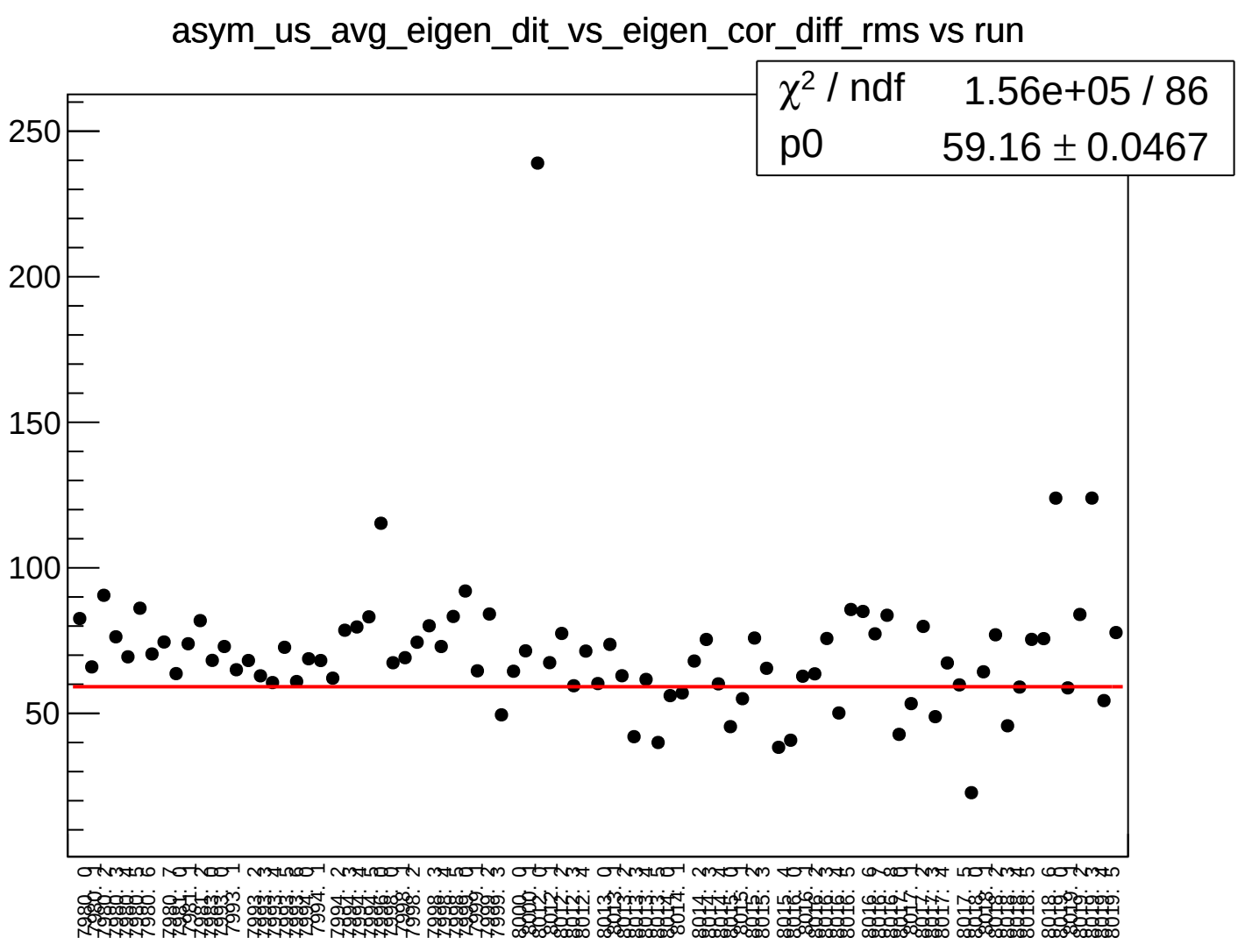

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.29 / 86
p0 0.06116 ± 0.06604
pull
Entries 87
Mean −8.724
Std Dev 0

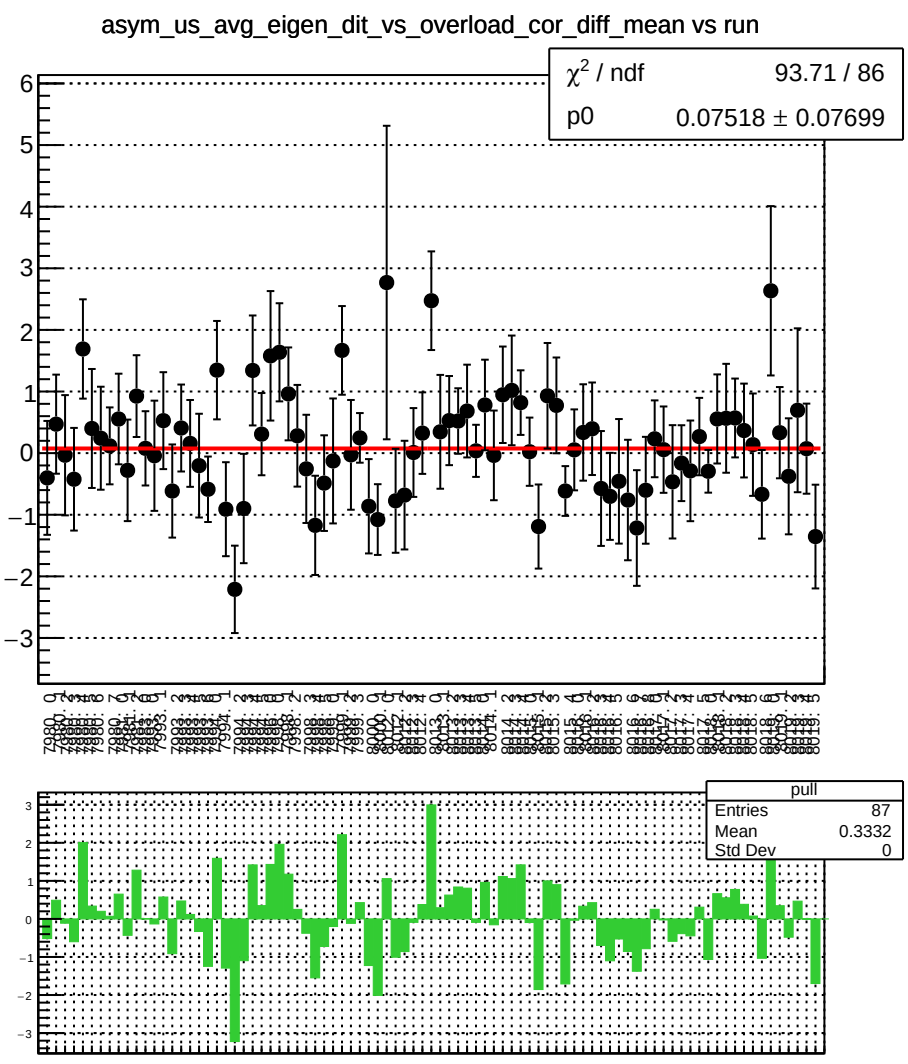

pull1D
Entries 87
Mean 0.01257
Std Dev 1.057

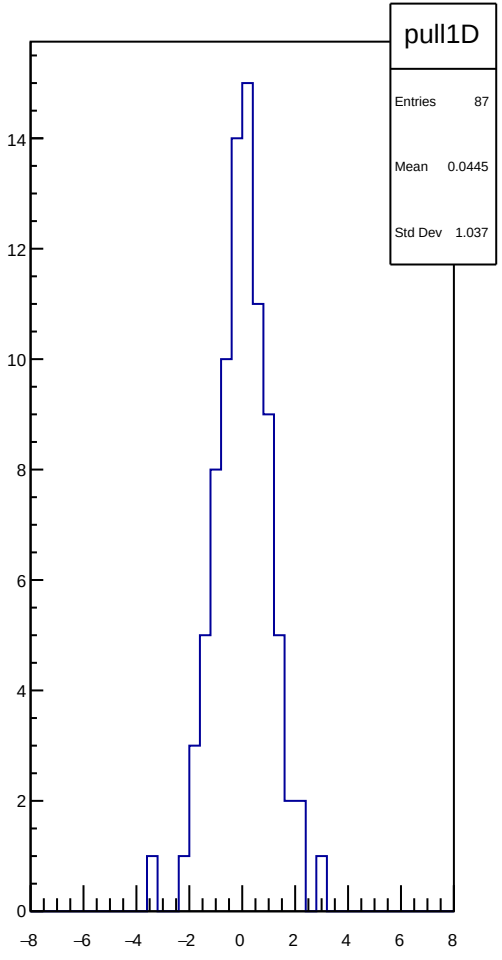

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.56e+05 / 86
p0 59.16 ± 0.0467
250
200
150
100
50

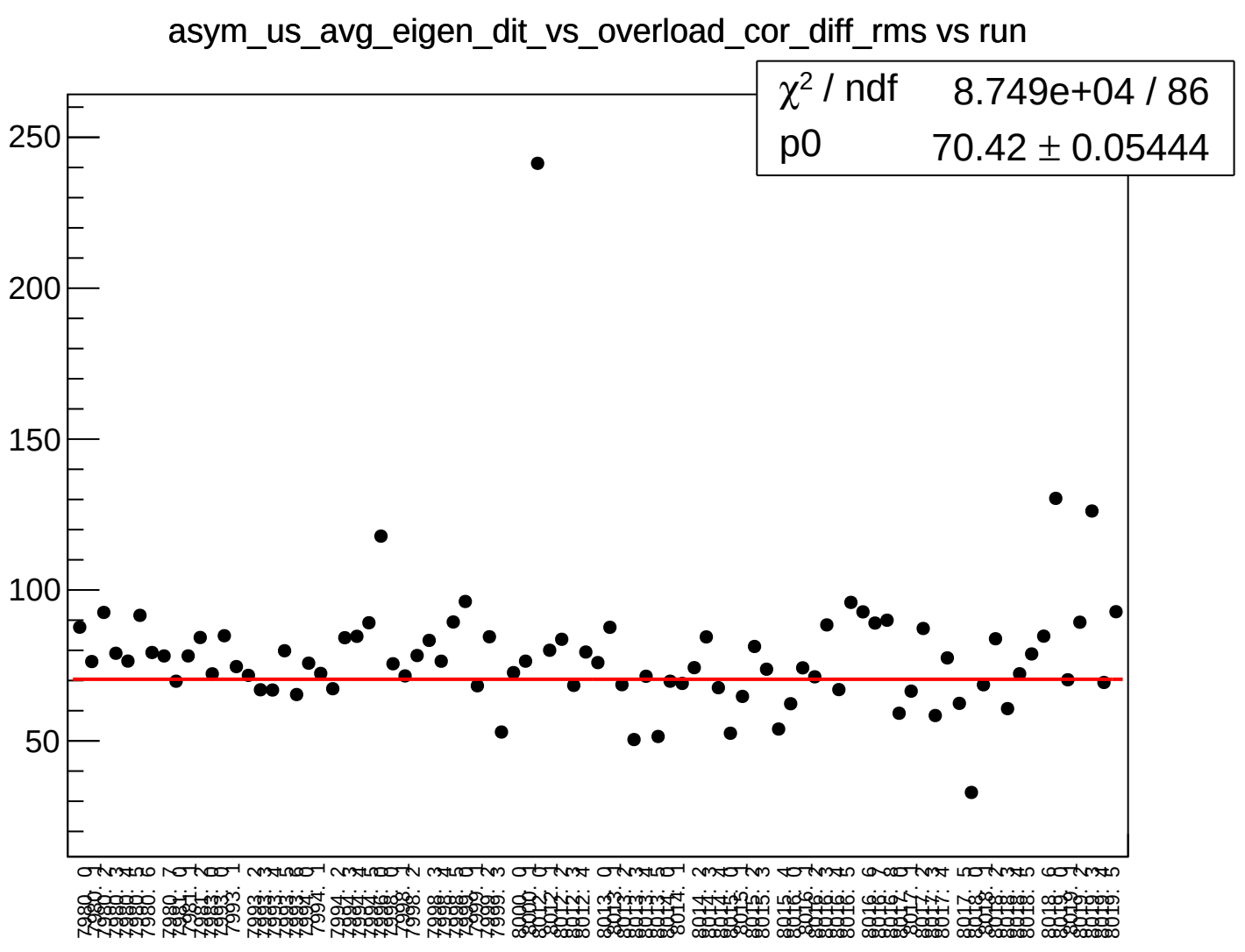

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.29 / 86
p0 0.06116 ± 0.06604
pull
Entries 87
Mean −8.724
Std Dev 0

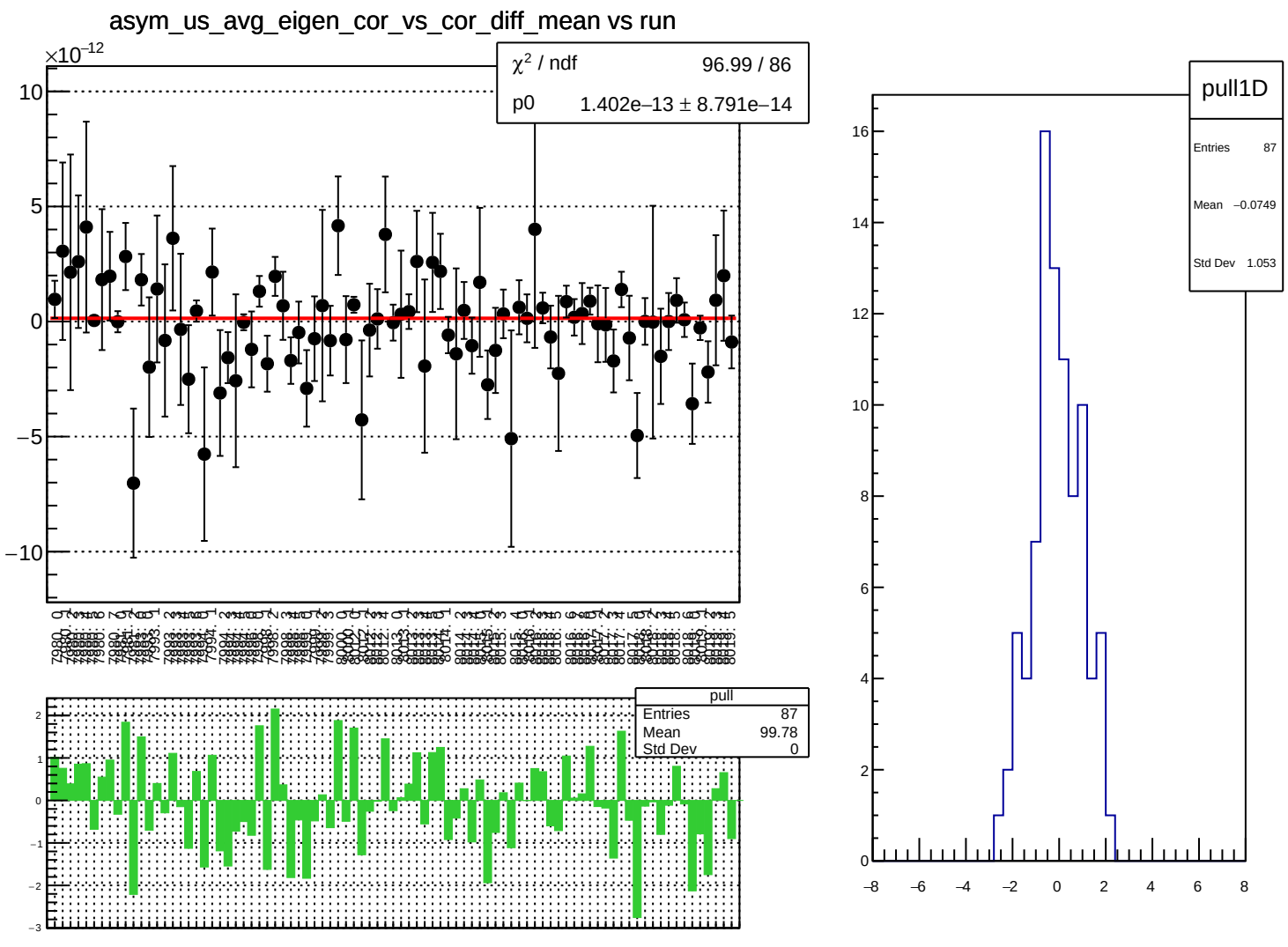

pull1D
Entries 87
Mean 0.01257
Std Dev 1.057

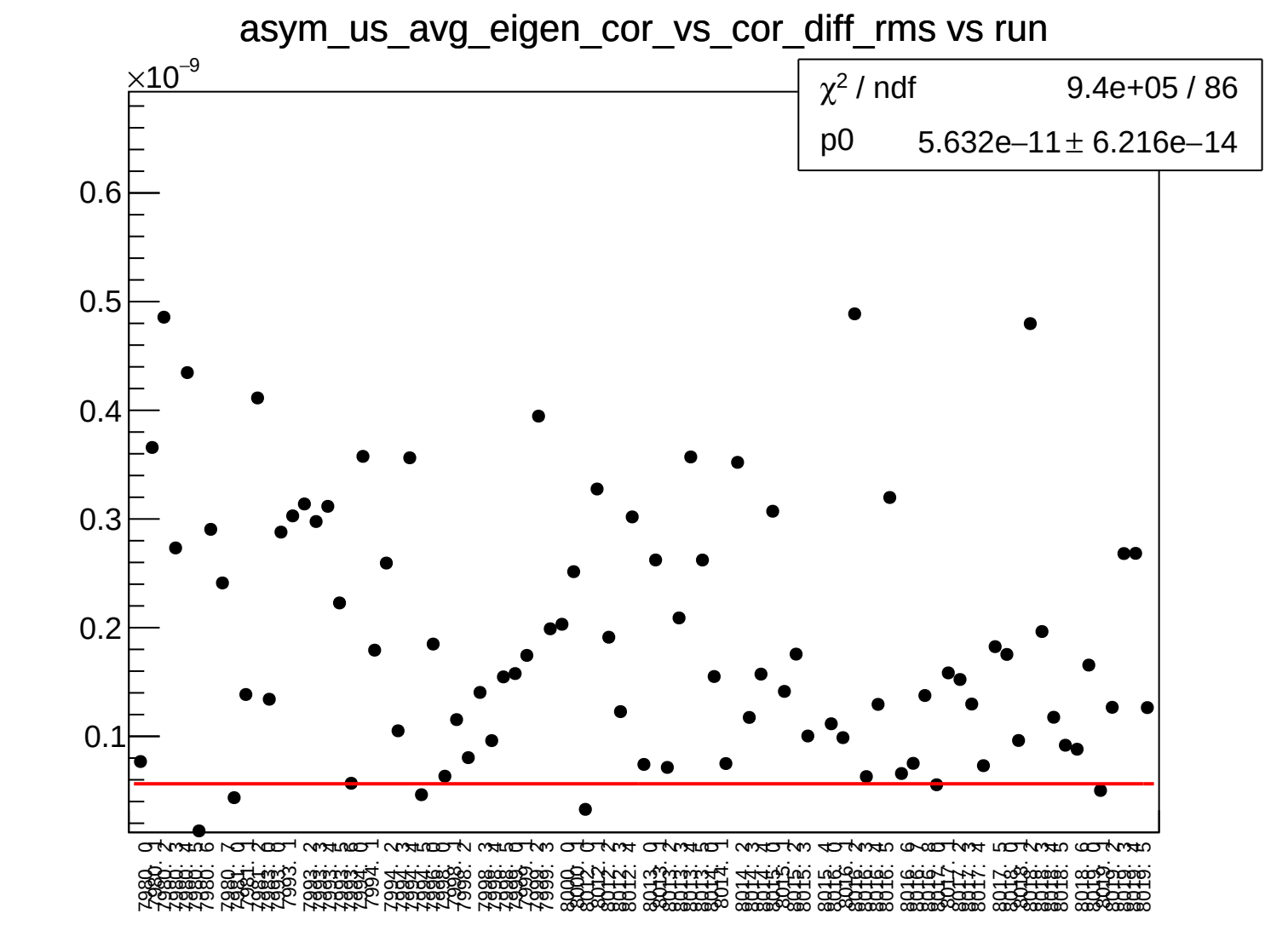

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.56e+05 / 86
p0 59.16 ± 0.0467
250
200
150
100
50

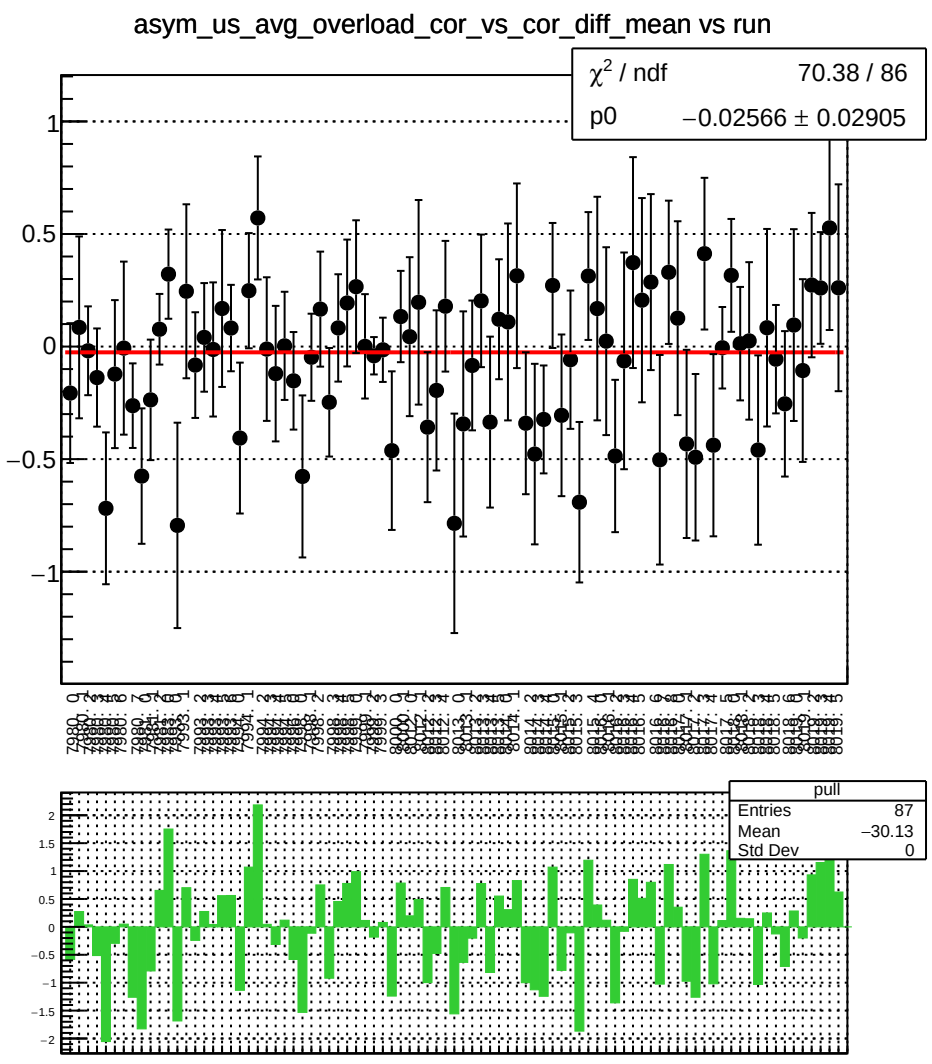

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 93.71 / 86
p0 0.07518 ± 0.07699
pull
Entries 87
Mean 0.3332
Std Dev 0

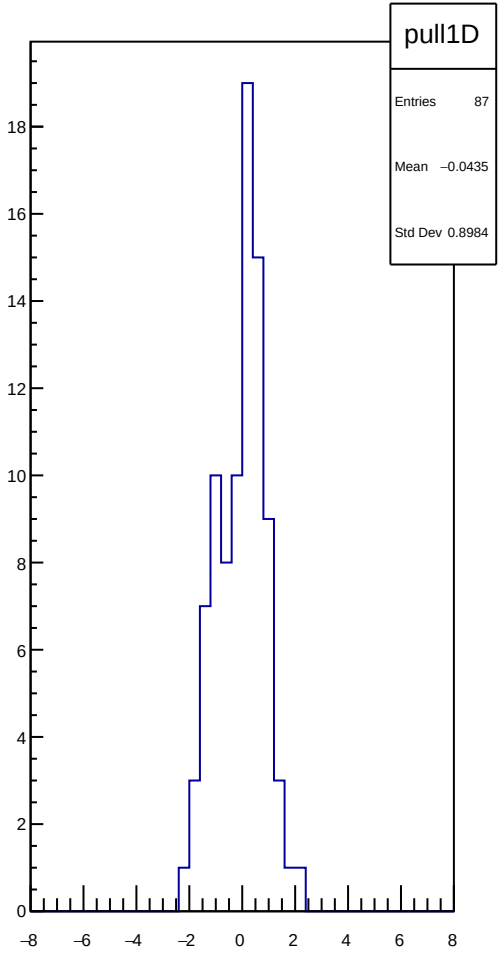

pull1D
Entries 87
Mean 0.0445
Std Dev 1.037

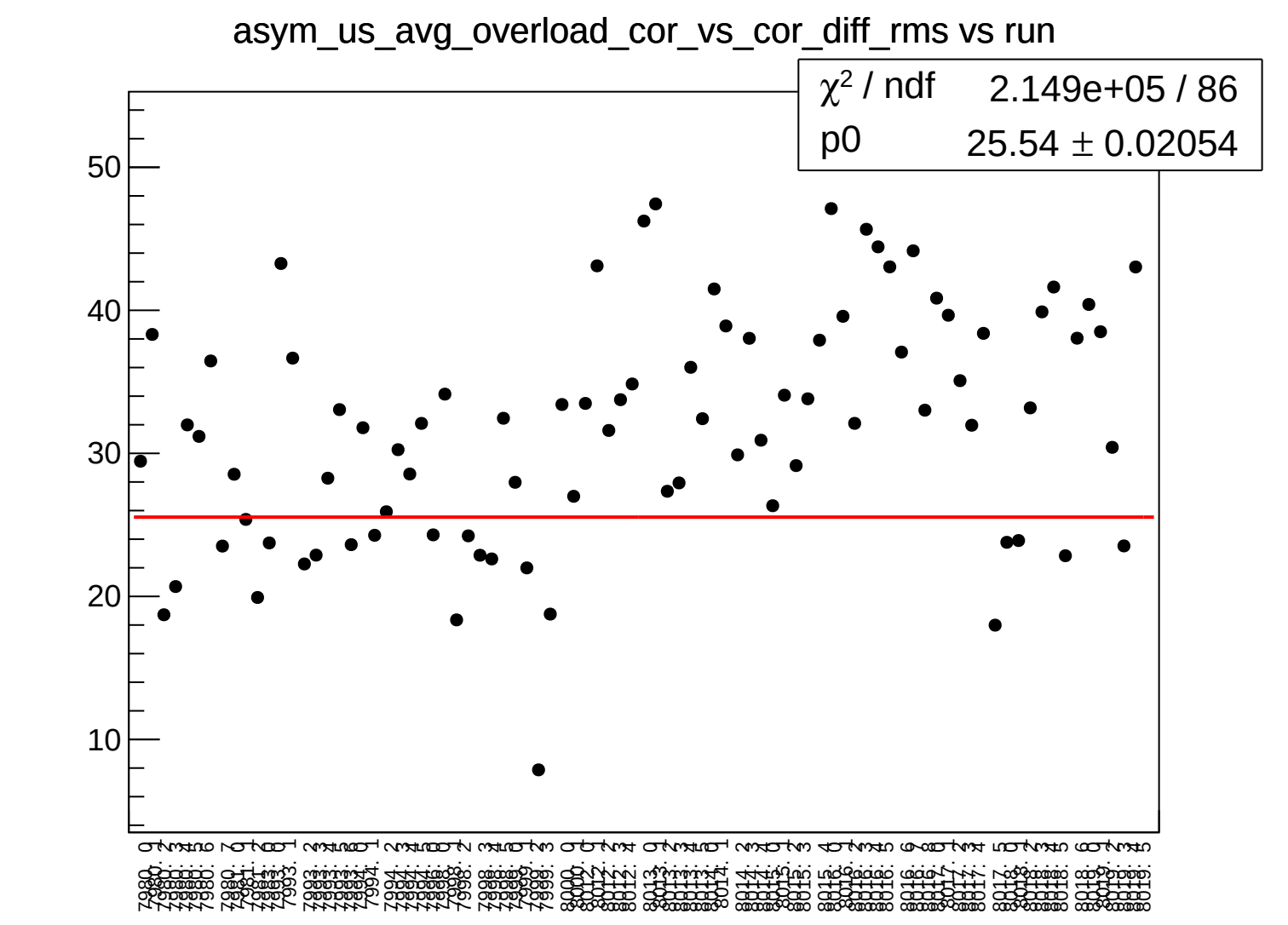

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.749e+04 / 86
p0 70.42 ± 0.05444
250
200
150
100
50

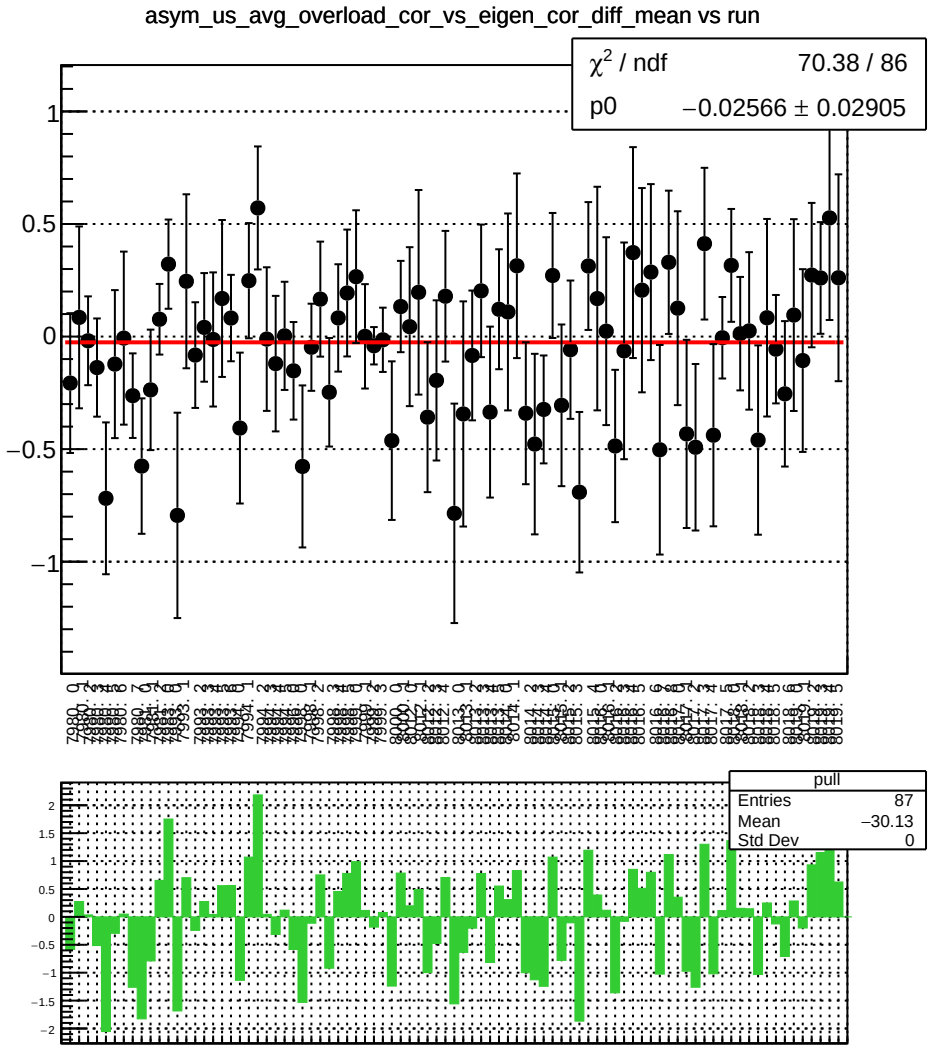

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.99 / 86
p0 1.402e−13 ± 8.791e−14
pull
Entries 87
Mean 99.78
Std Dev 0
pull1D
Entries 87
Mean −0.0749
Std Dev 1.053

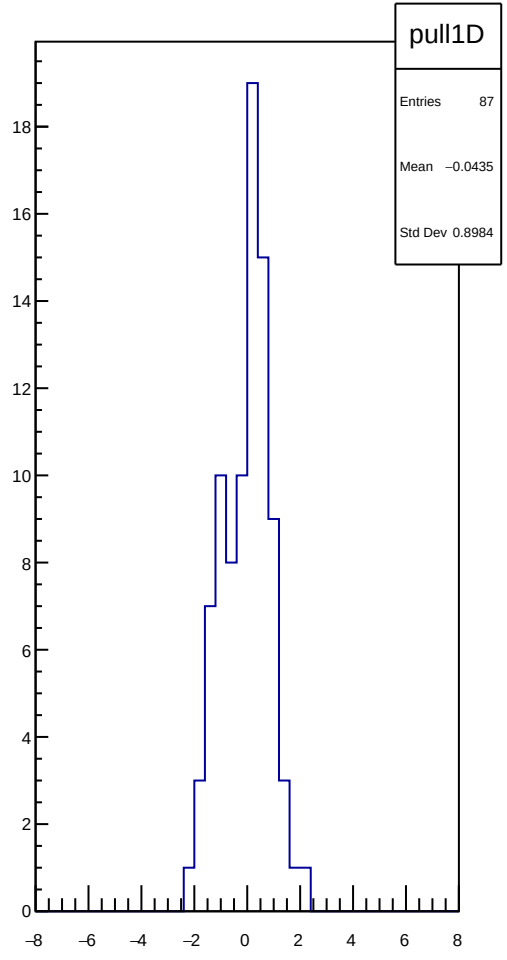

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.4e+05 / 86
p0 5.632e−11 ± 6.216e−14
0.6
0.5
0.4
0.3
0.2
0.1

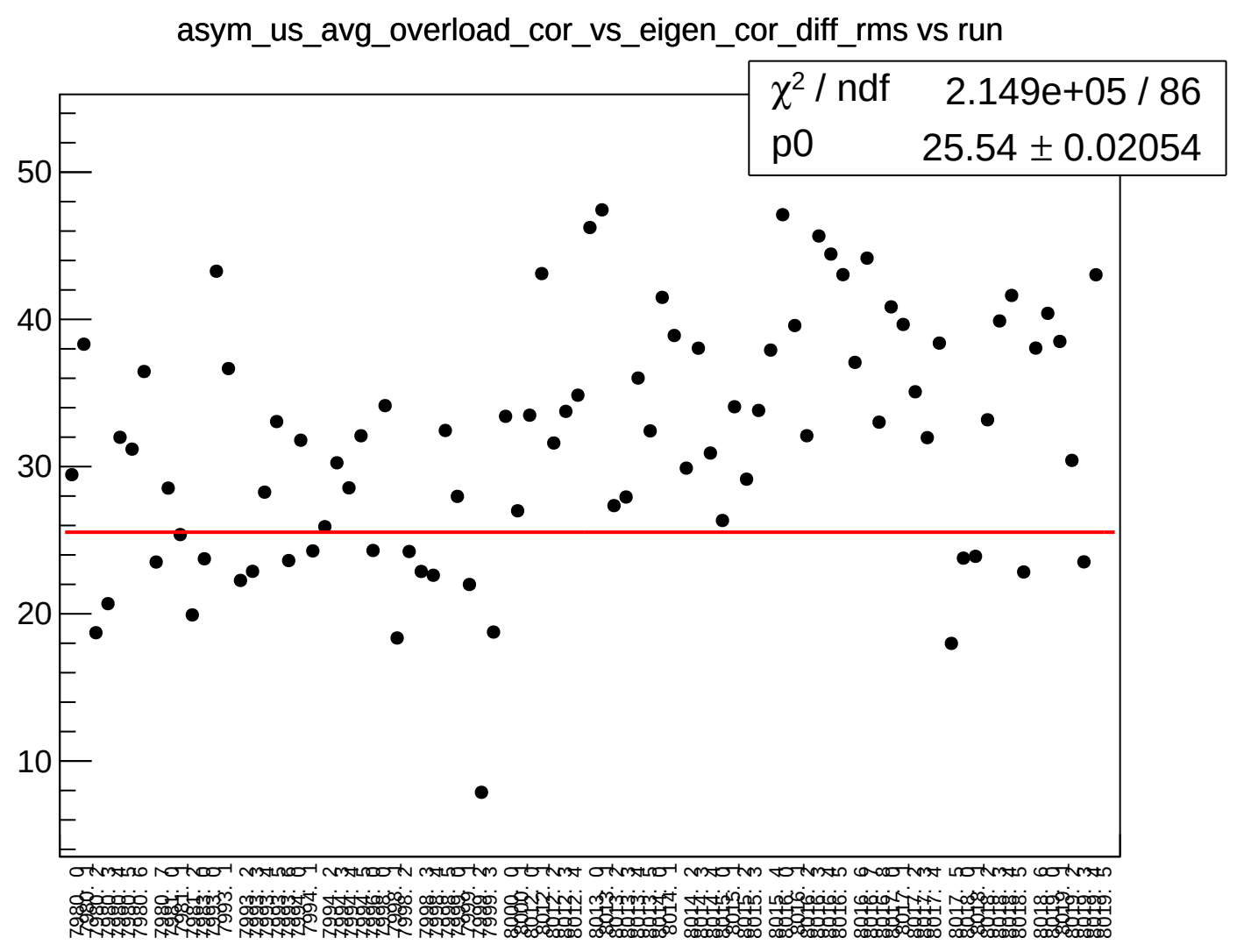

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 70.38 / 86
p0 −0.02566 ± 0.02905
pull
Entries 87
Mean −30.13
Std Dev 0

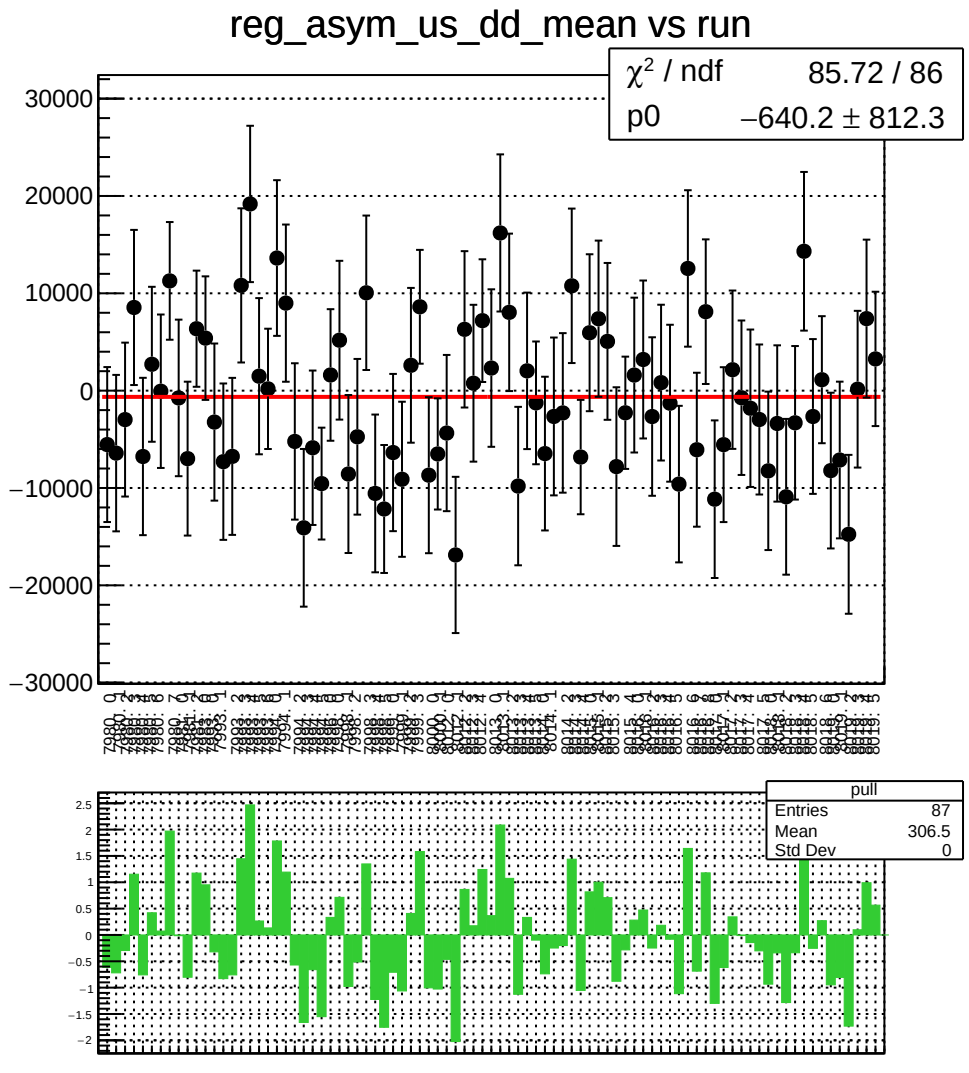

pull1D
Entries 87
Mean −0.0435
Std Dev 0.8984

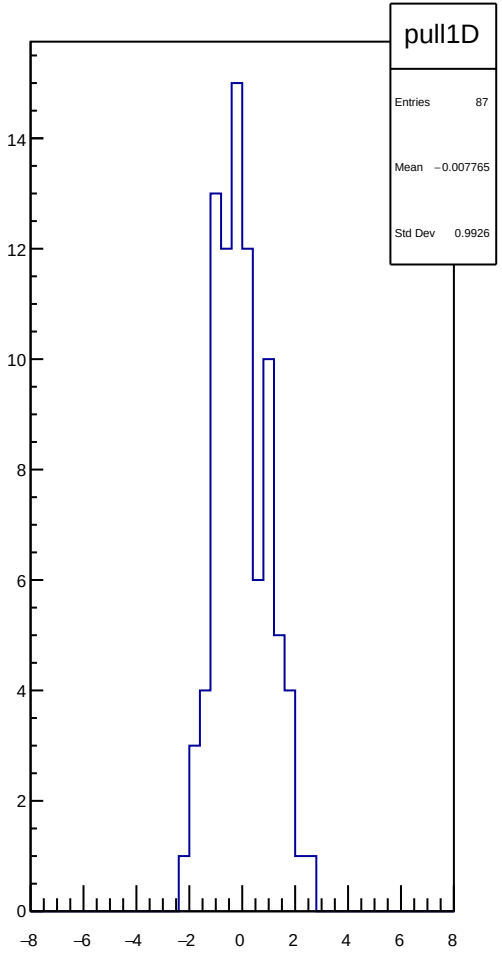

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 2.149e+05 / 86
p0 25.54 ± 0.02054
50
40
30
20
10

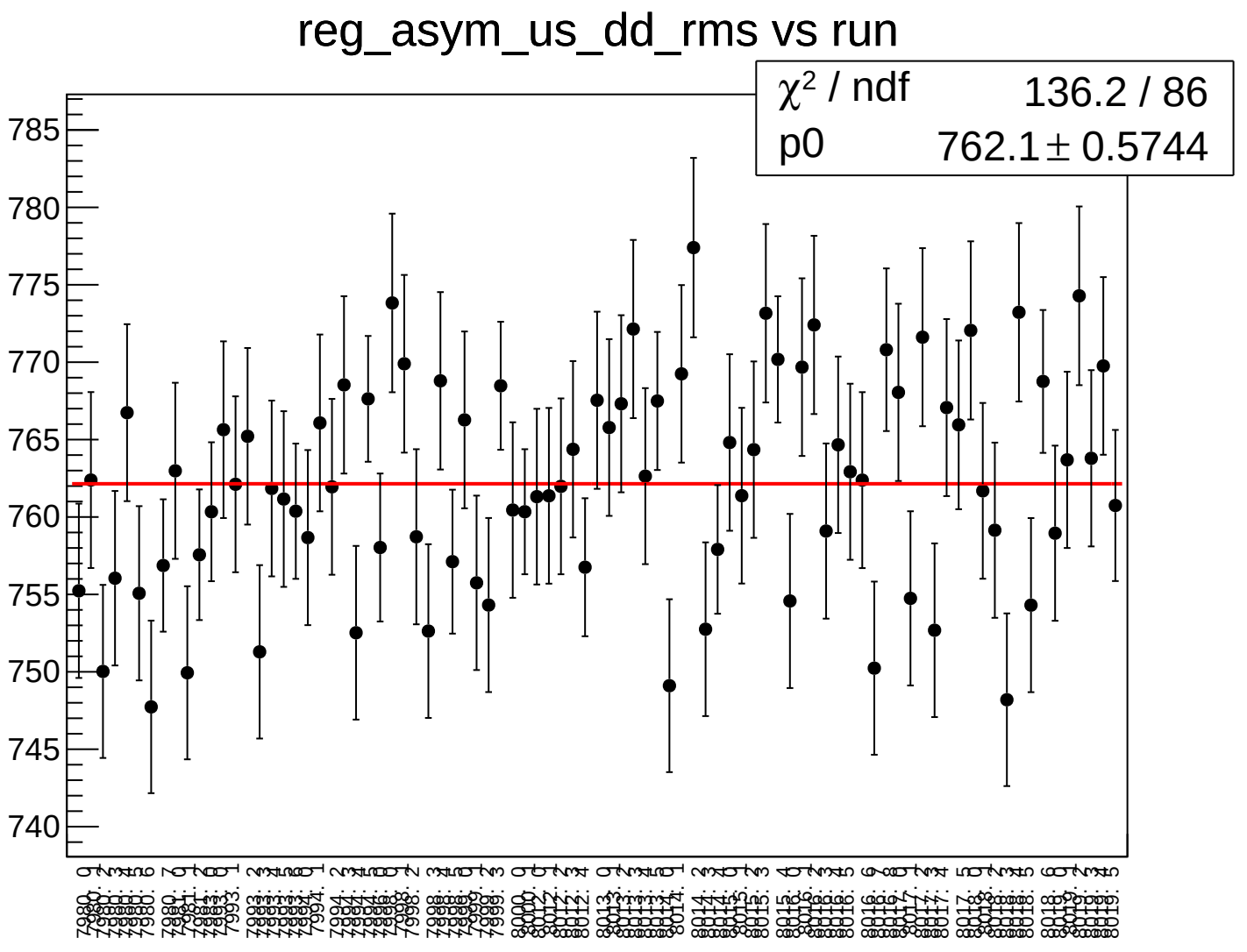

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.38 / 86
p0 −0.02566 ± 0.02905
pull
Entries 87
Mean −30.13
Std Dev 0

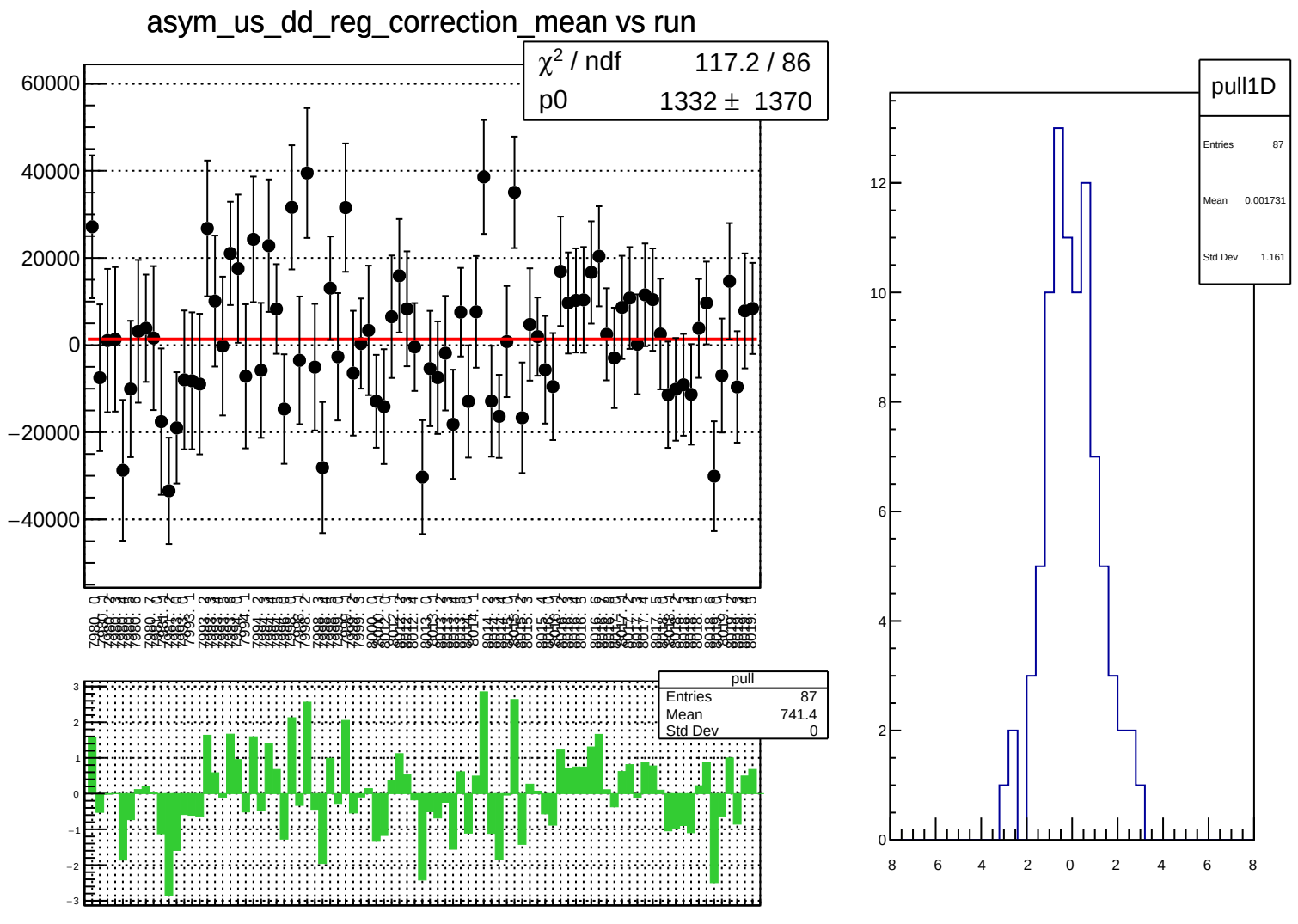

pull1D
Entries 87
Mean −0.0435
Std Dev 0.8984

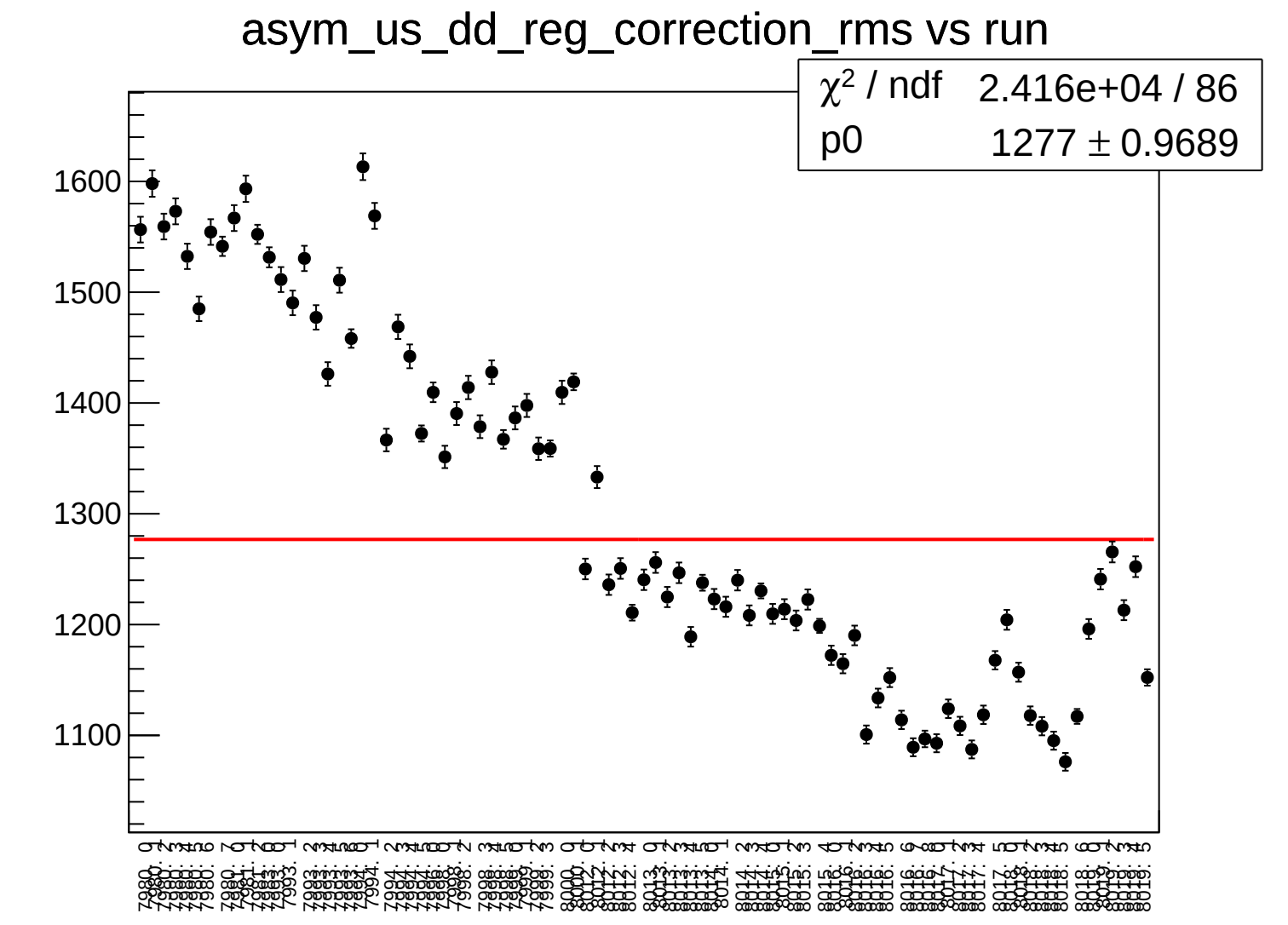

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.149e+05 / 86
p0 25.54 ± 0.02054
50
40
30
20
10

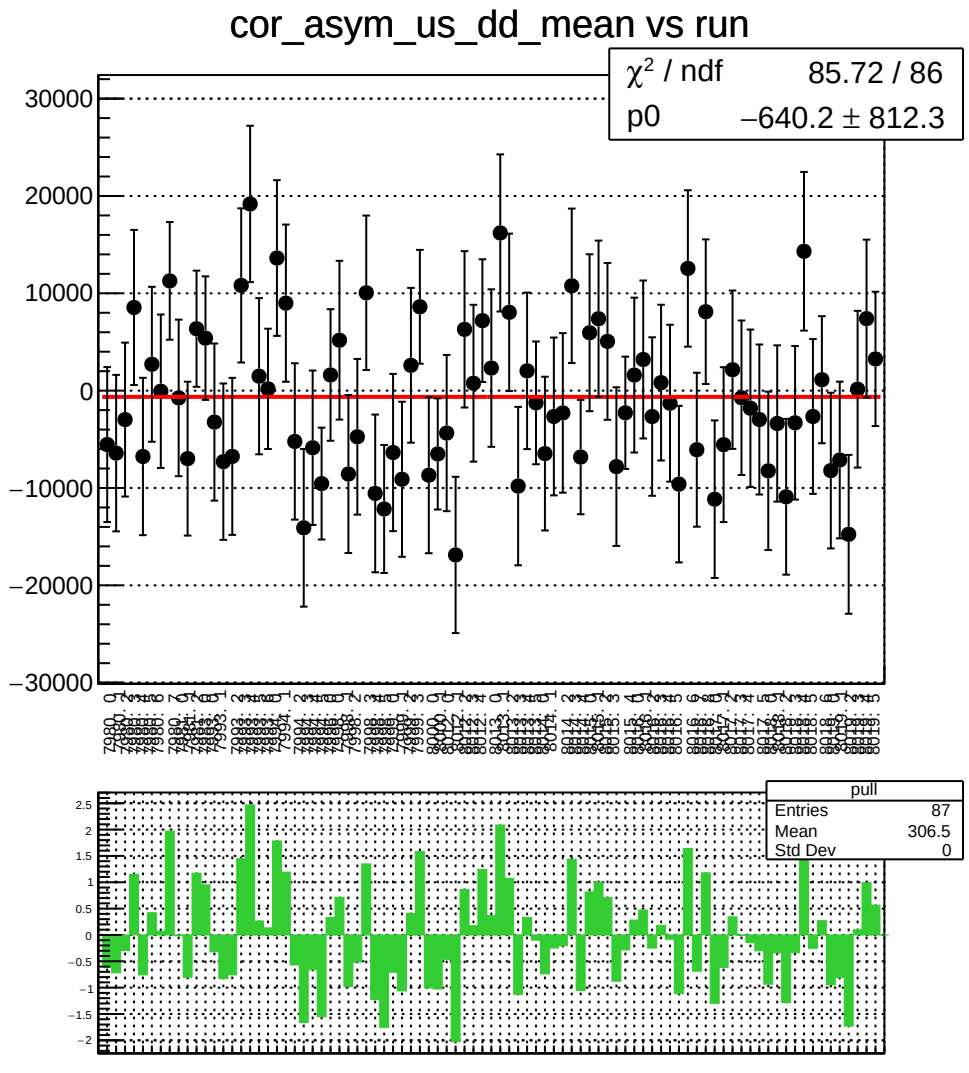

reg_asym_us_dd_mean vs run
χ² / ndf 85.72 / 86
p0 −640.2 ± 812.3
pull
Entries 87
Mean 306.5
Std Dev 0

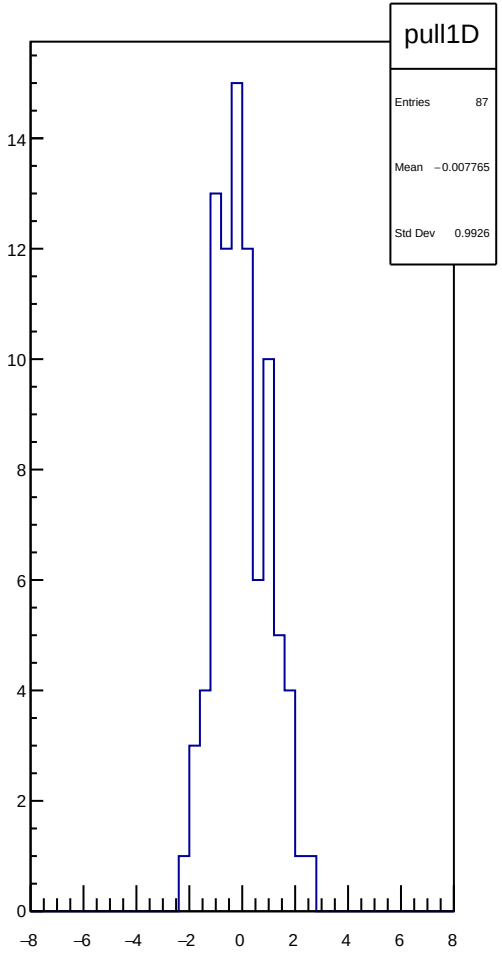

pull1D
Entries 87
Mean −0.007765
Std Dev 0.9926

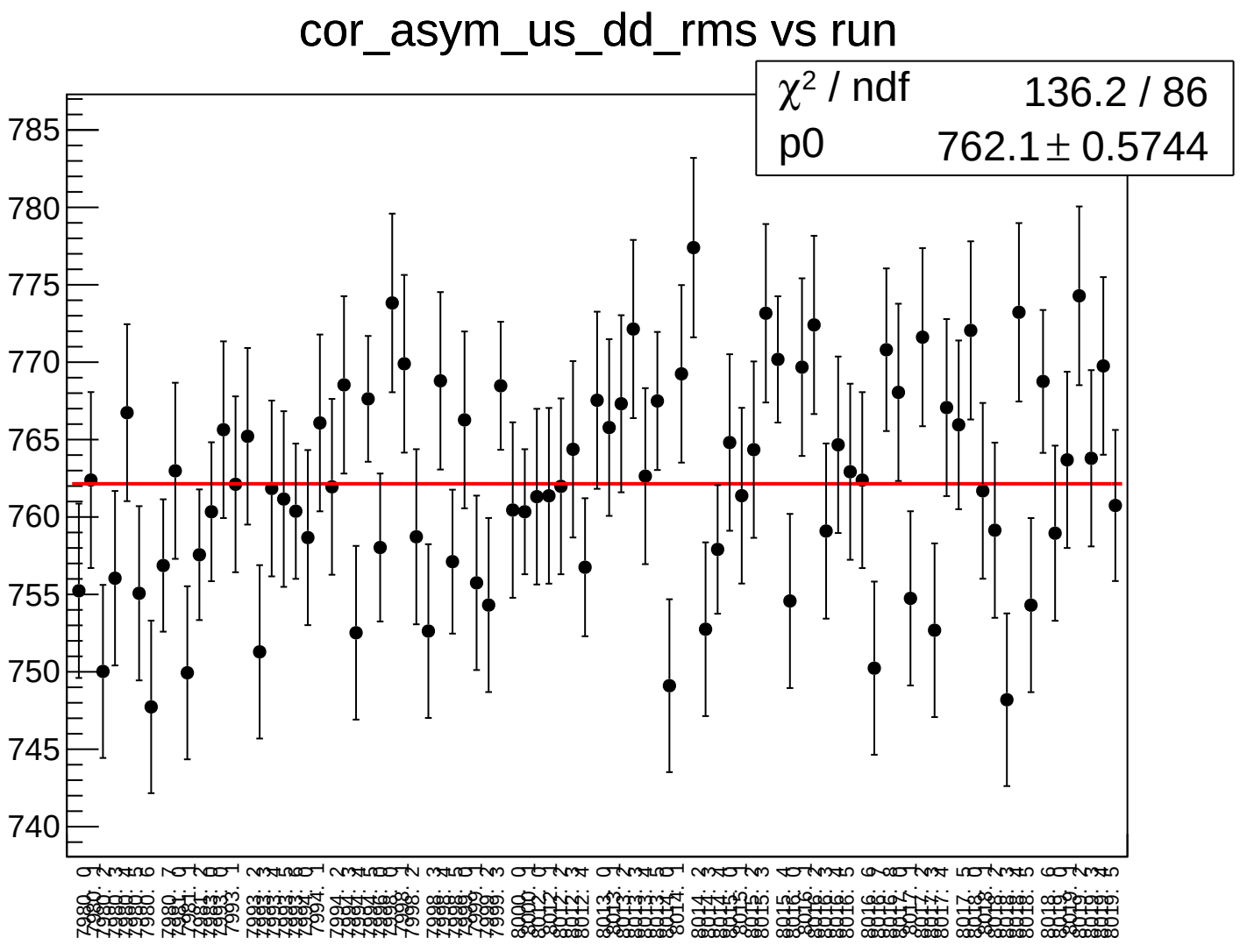

reg_asym_us_dd_rms vs run
χ² / ndf 136.2 / 86
p0 762.1 ± 0.5744
785
780
775
770
765
760
755
750
745
740

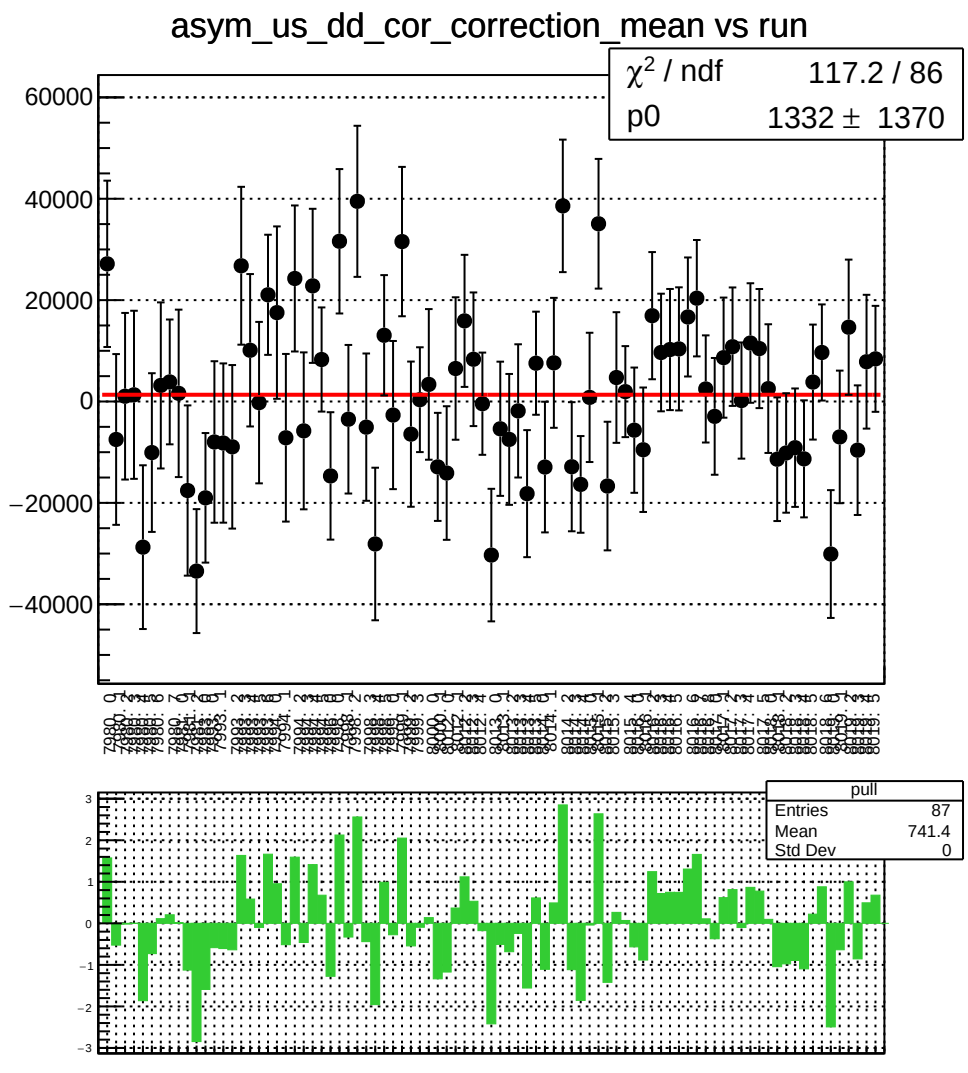

asym_us_dd_reg_correction_mean vs run
χ² / ndf 117.2 / 86
p0 1332 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 741.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.001731
Std Dev 1.161
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

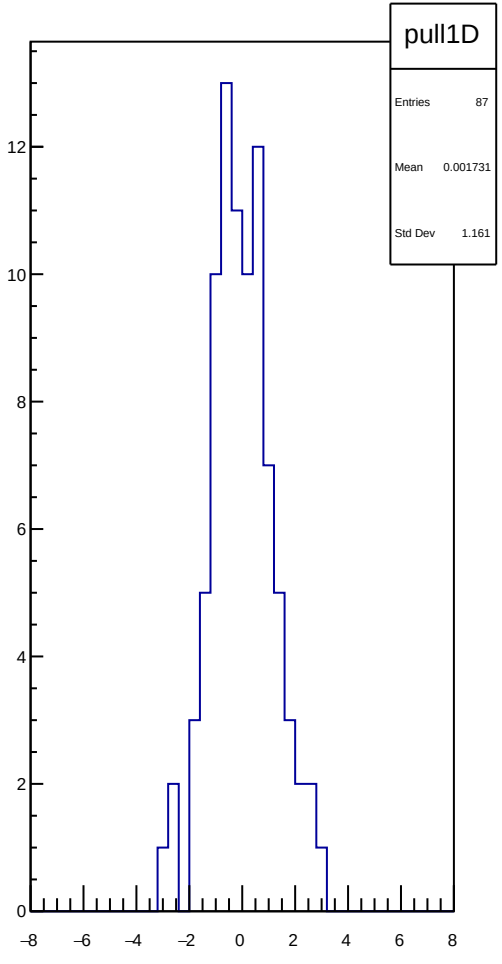

asym_us_dd_reg_correction_rms vs run
χ² / ndf 2.416e+04 / 86
p0 1277 ± 0.9689
1600
1500
1400
1300
1200
1100

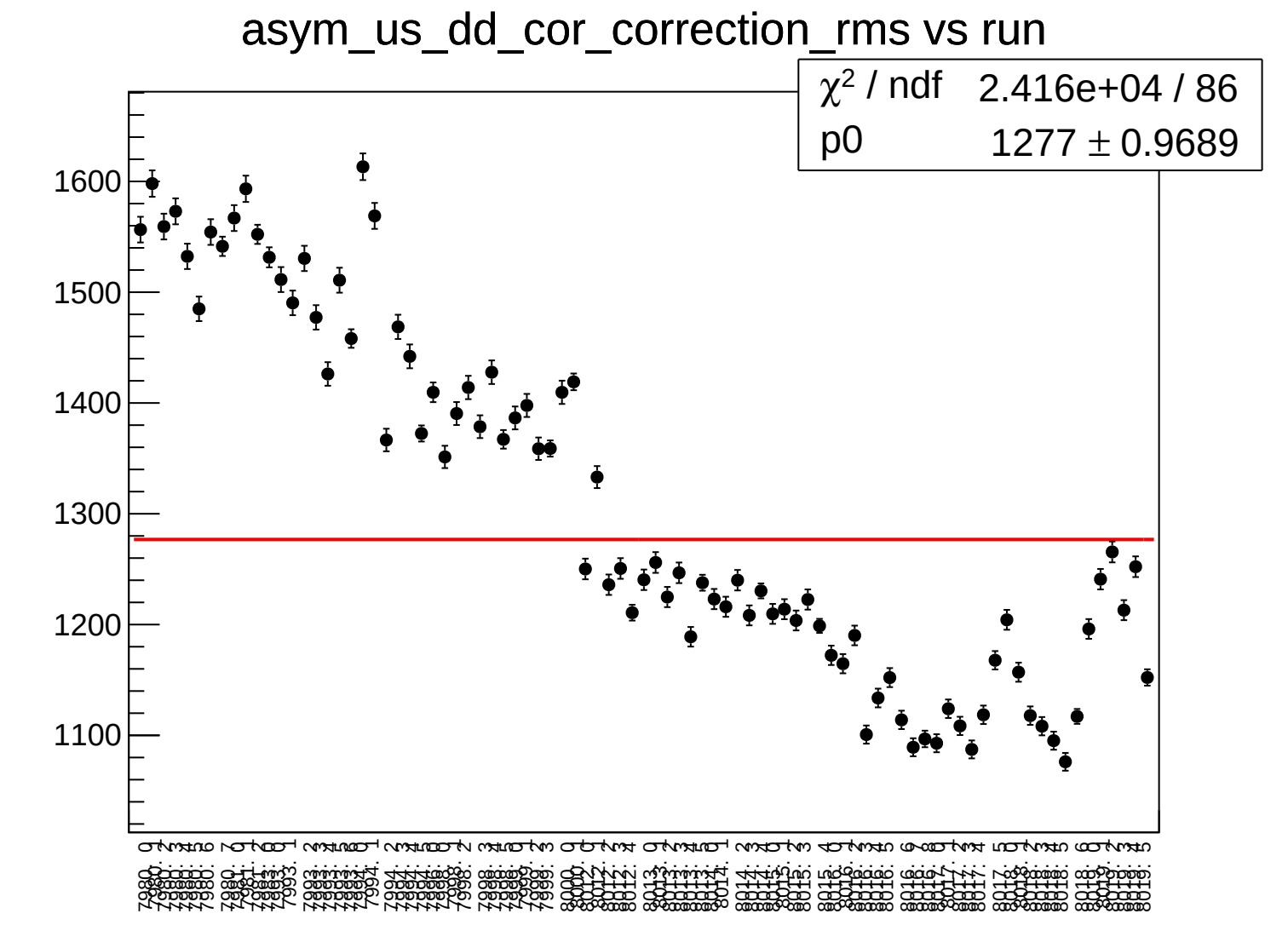

cor_asym_us_dd_mean vs run
χ² / ndf 85.72 / 86
p0 −640.2 ± 812.3
pull
Entries 87
Mean 306.5
Std Dev 0

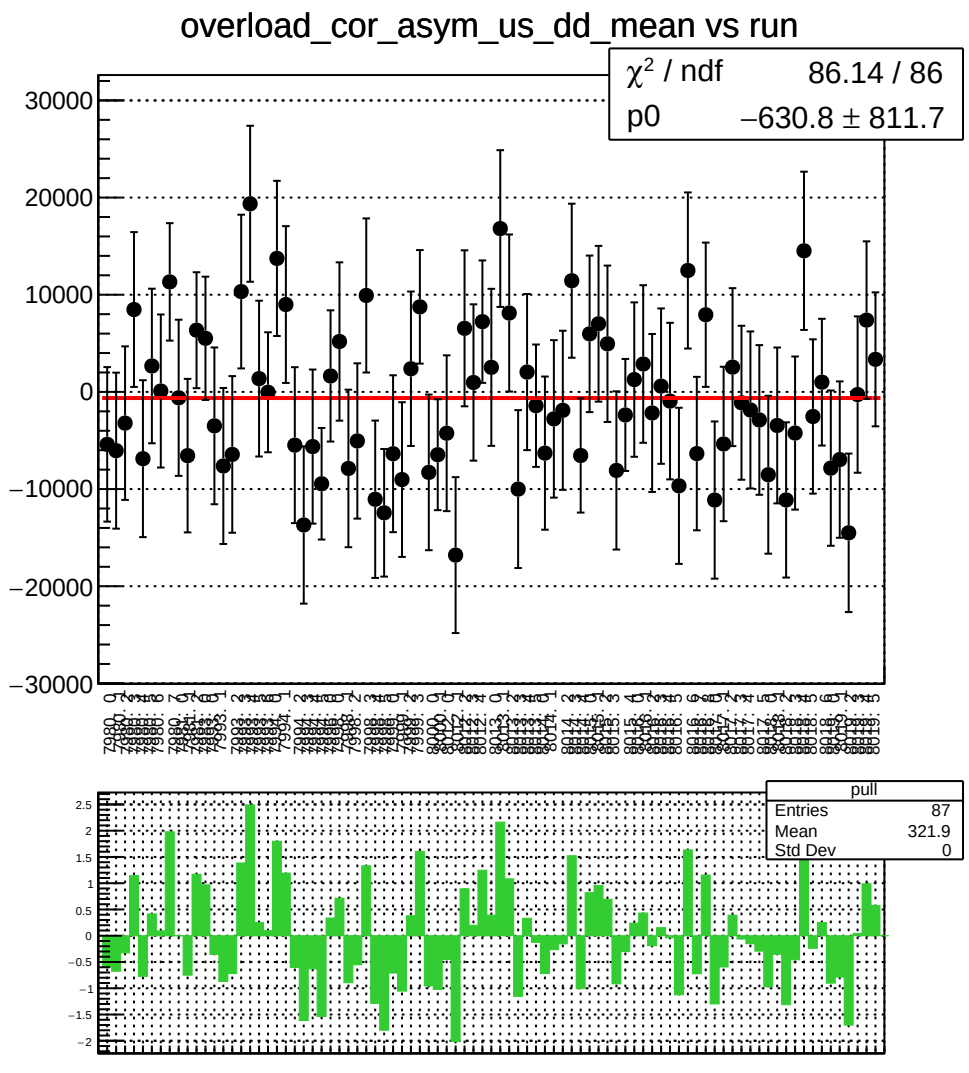

pull1D
Entries 87
Mean −0.007765
Std Dev 0.9926

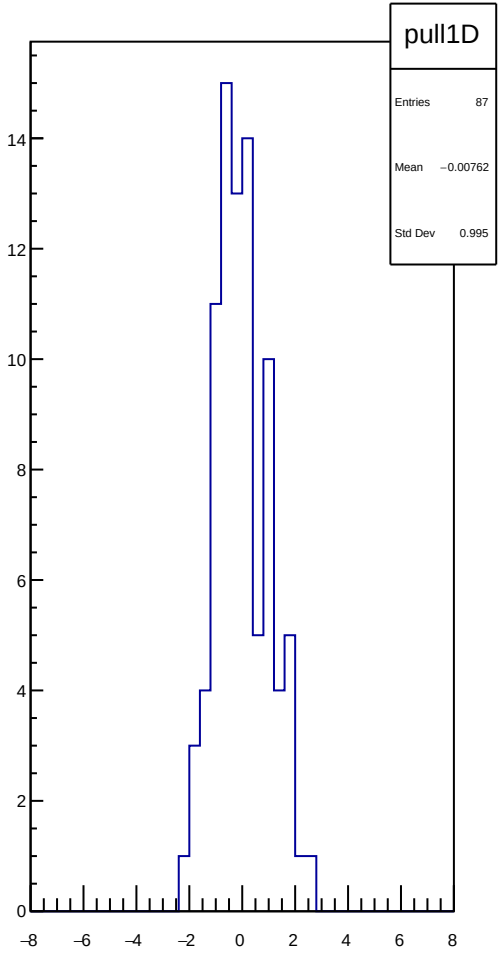

cor_asym_us_dd_rms vs run
χ² / ndf 136.2 / 86
p0 762.1 ± 0.5744
785
780
775
770
765
760
755
750
745
740

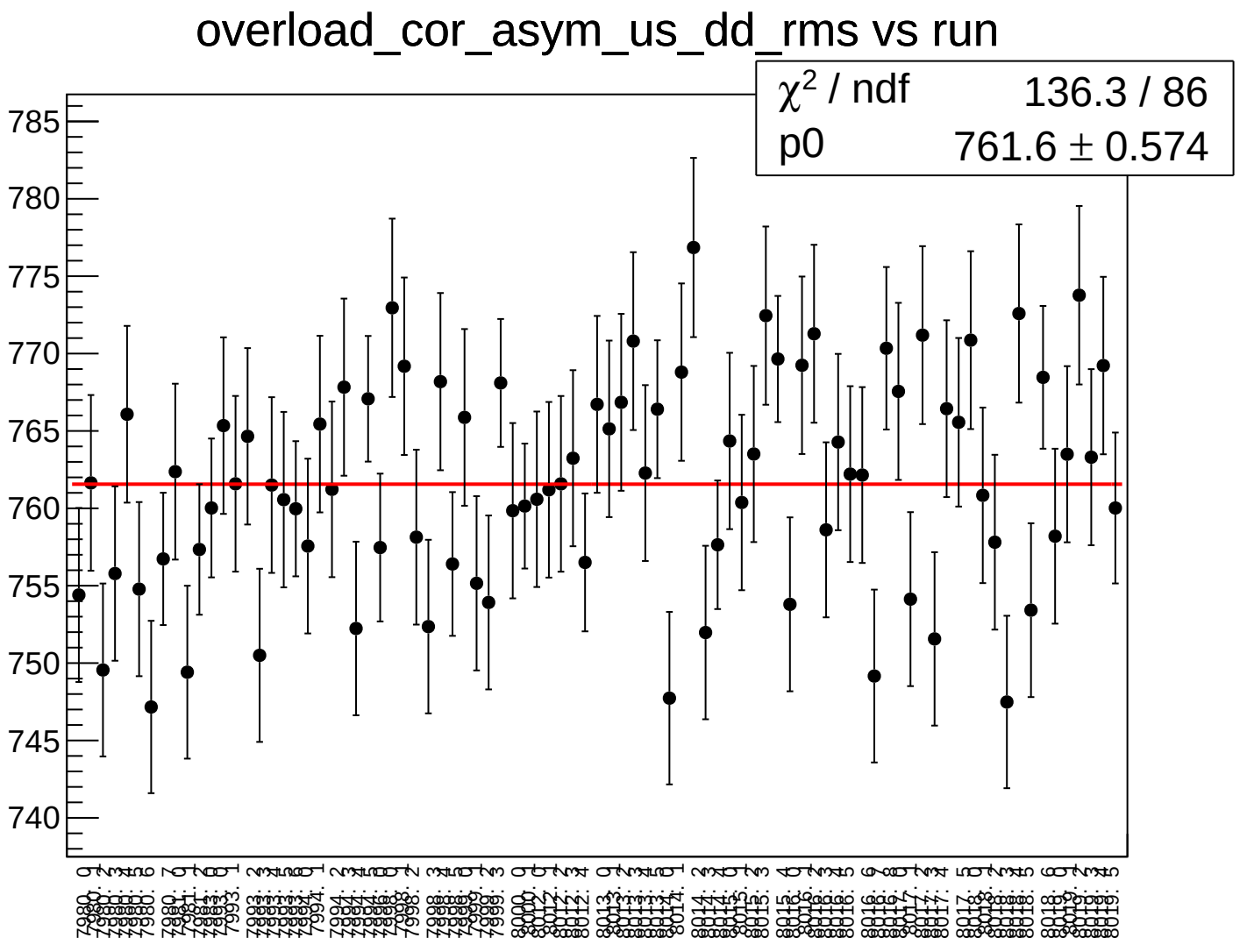

asym_us_dd_cor_correction_mean vs run
χ² / ndf 117.2 / 86
p0 1332 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 741.4
Std Dev 0
3
2
1
0
−1
−2
−3

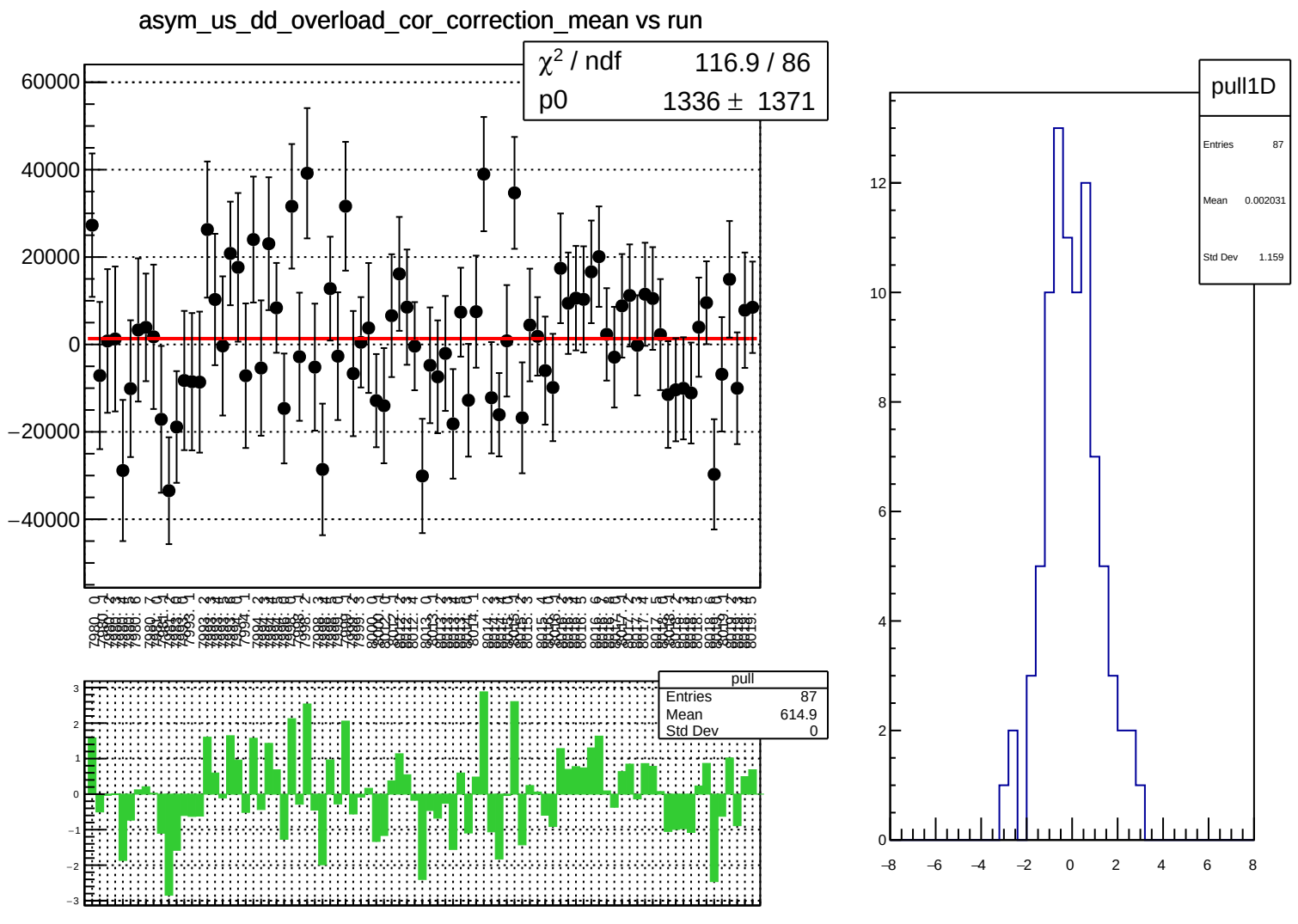

pull1D
Entries 87
Mean 0.001731
Std Dev 1.161
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

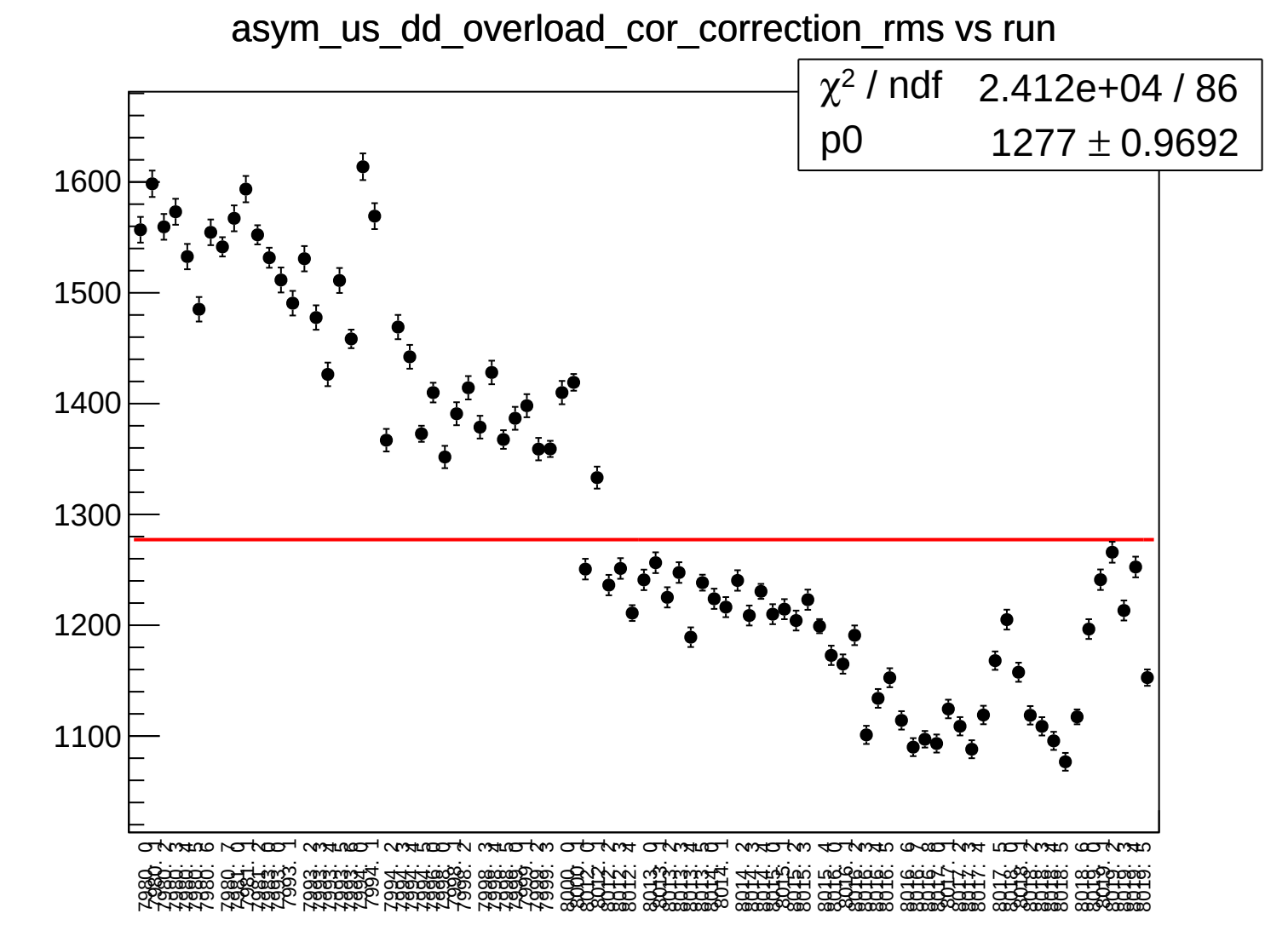

asym_us_dd_cor_correction_rms vs run
χ² / ndf 2.416e+04 / 86
p0 1277 ± 0.9689
1600
1500
1400
1300
1200
1100

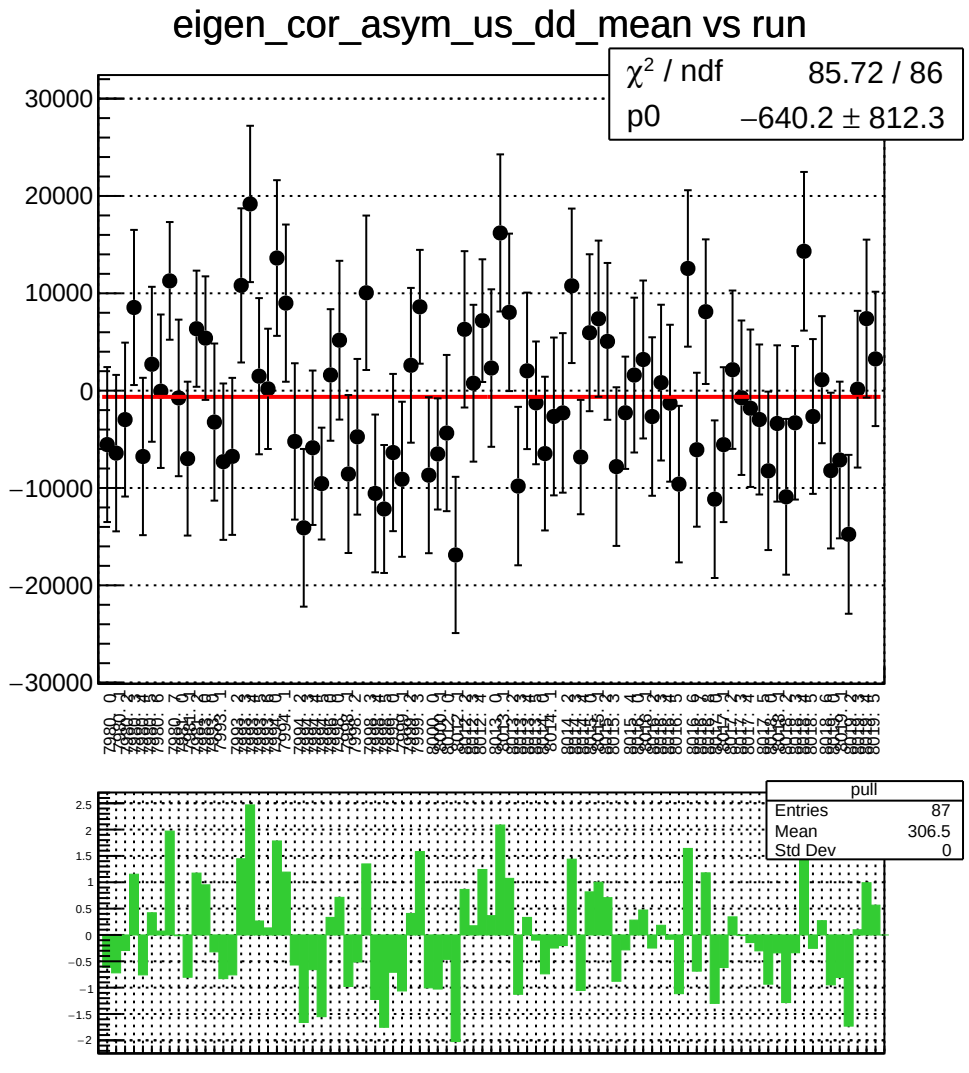

overload_cor_asym_us_dd_mean vs run
χ² / ndf 86.14 / 86
p0 −630.8 ± 811.7
pull
Entries 87
Mean 321.9
Std Dev 0

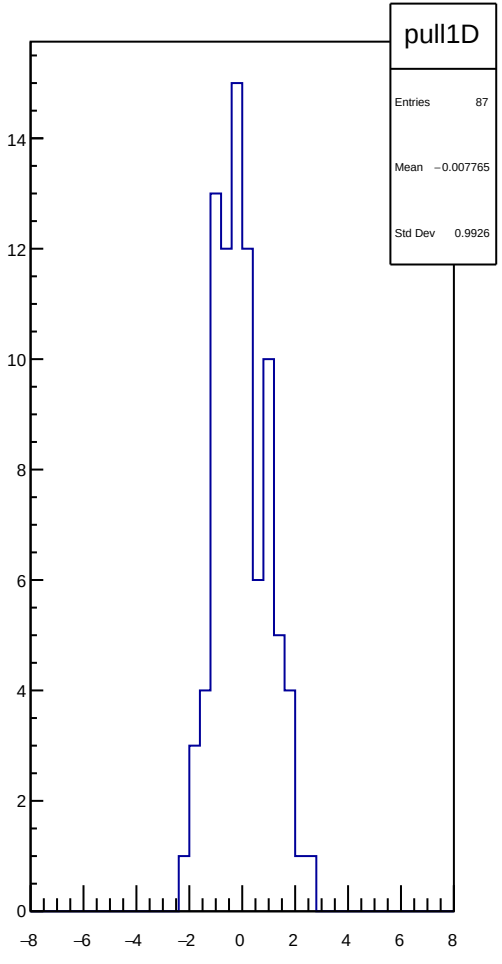

pull1D
Entries 87
Mean −0.00762
Std Dev 0.995

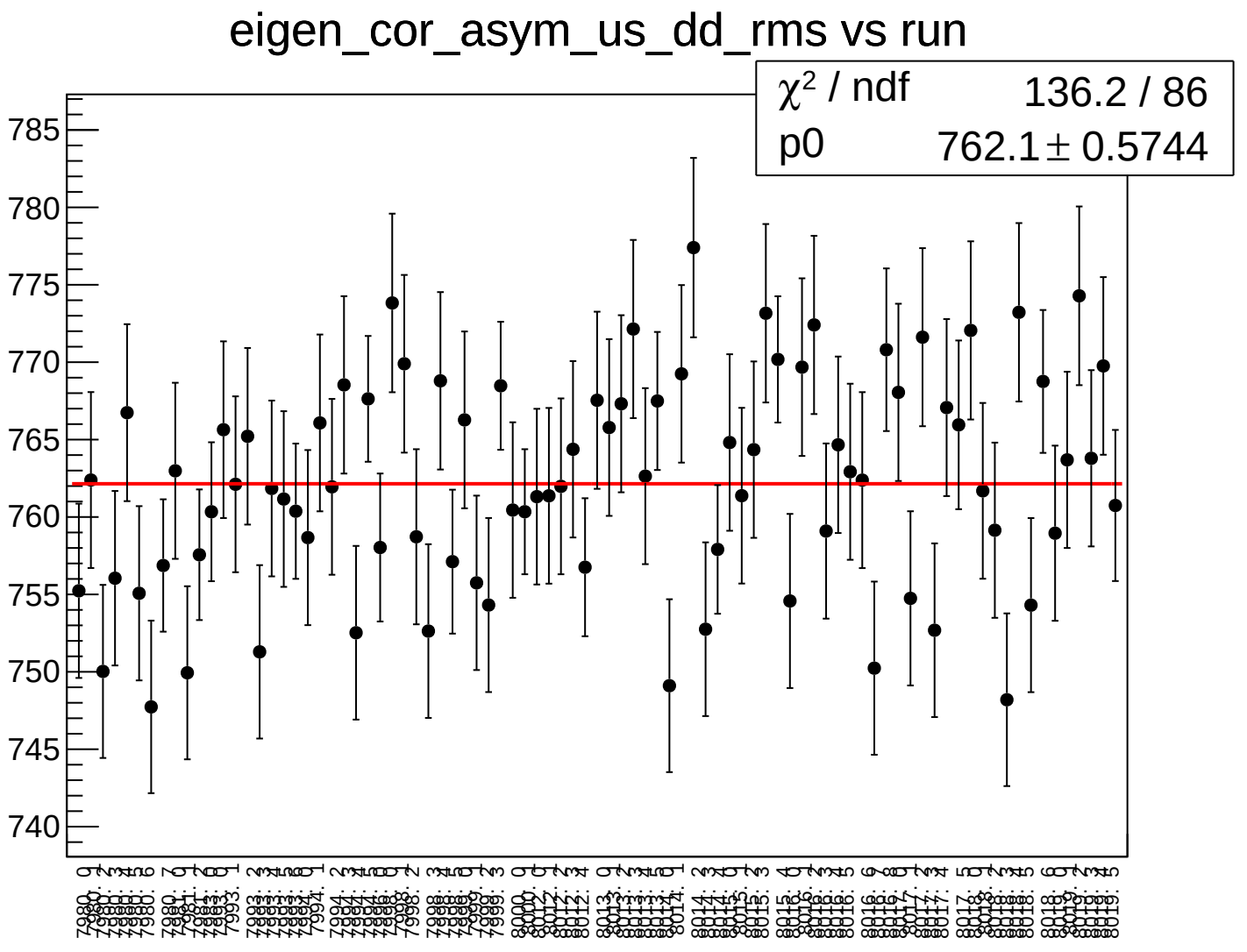

overload_cor_asym_us_dd_rms vs run
χ² / ndf 136.3 / 86
p0 761.6 ± 0.574
785
780
775
770
765
760
755
750
745
740

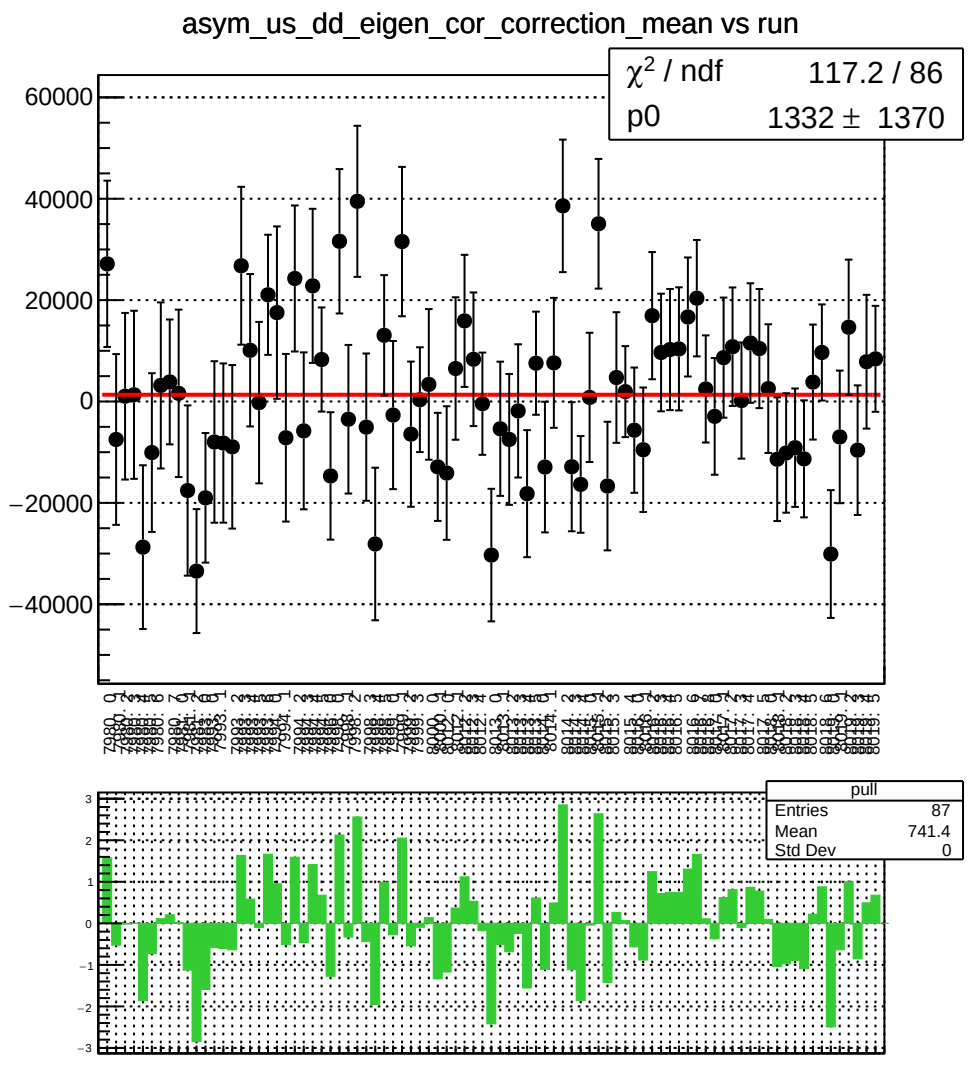

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 116.9 / 86
p0 1336 ± 1371
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 614.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.002031
Std Dev 1.159
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

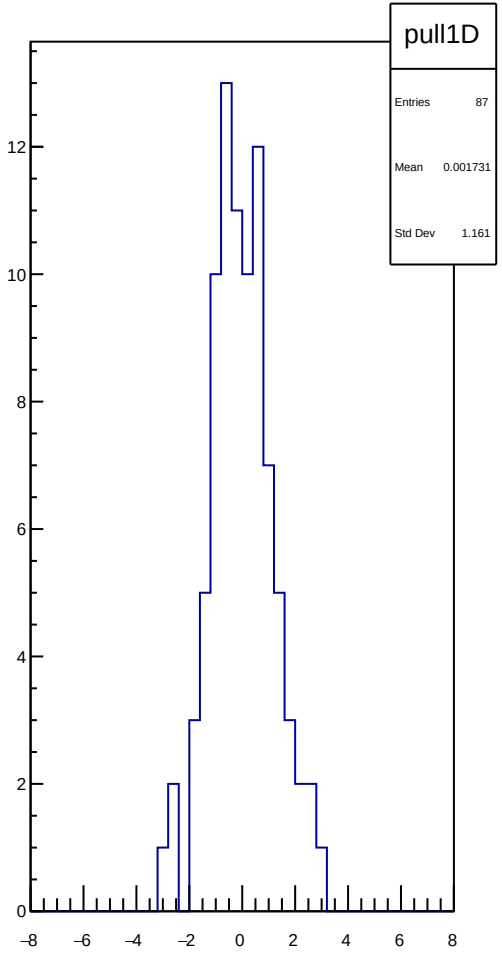

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 2.412e+04 / 86
p0 1277 ± 0.9692
1600
1500
1400
1300
1200
1100

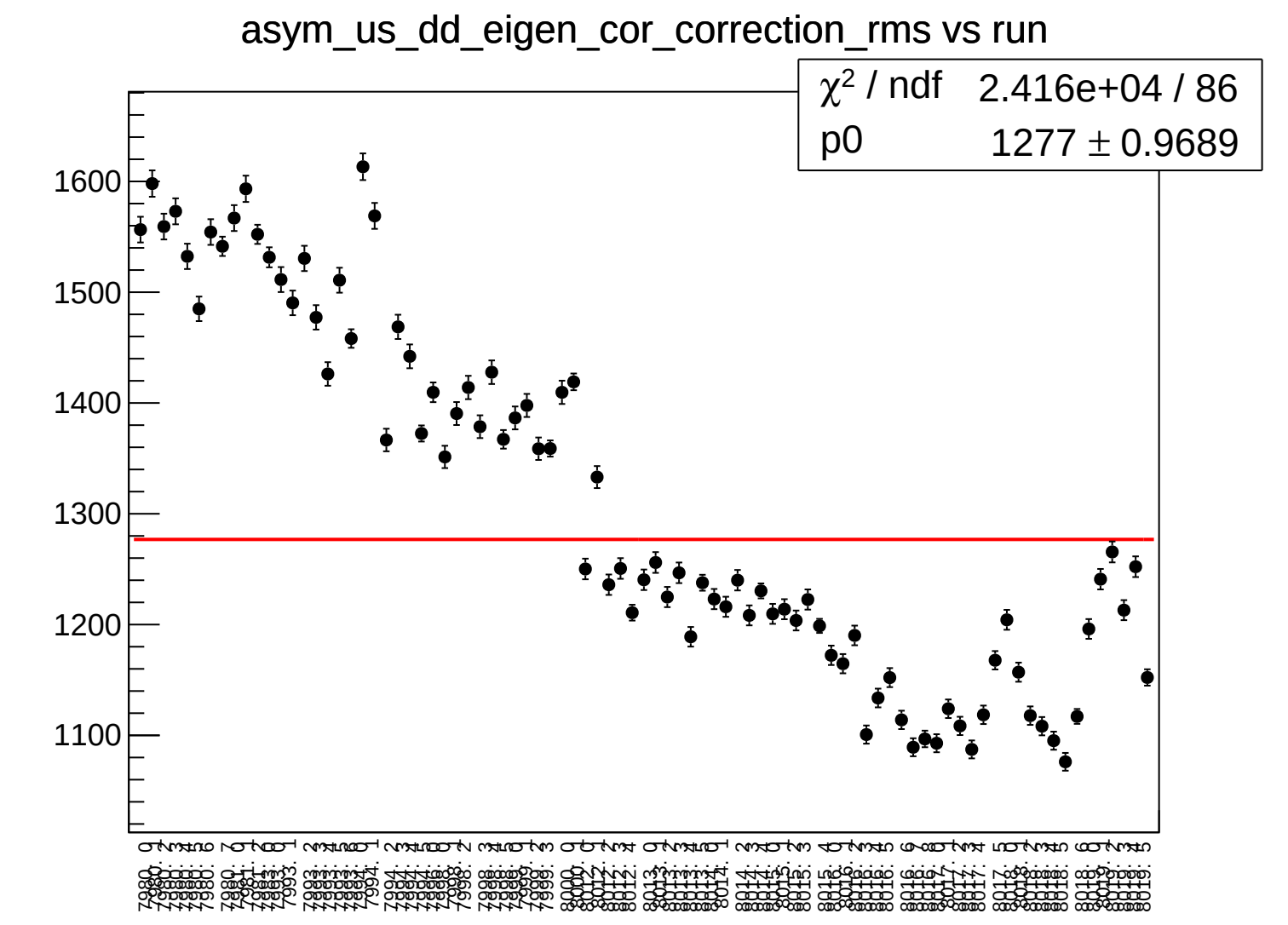

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 85.72 / 86
p0 −640.2 ± 812.3
pull
Entries 87
Mean 306.5
Std Dev 0

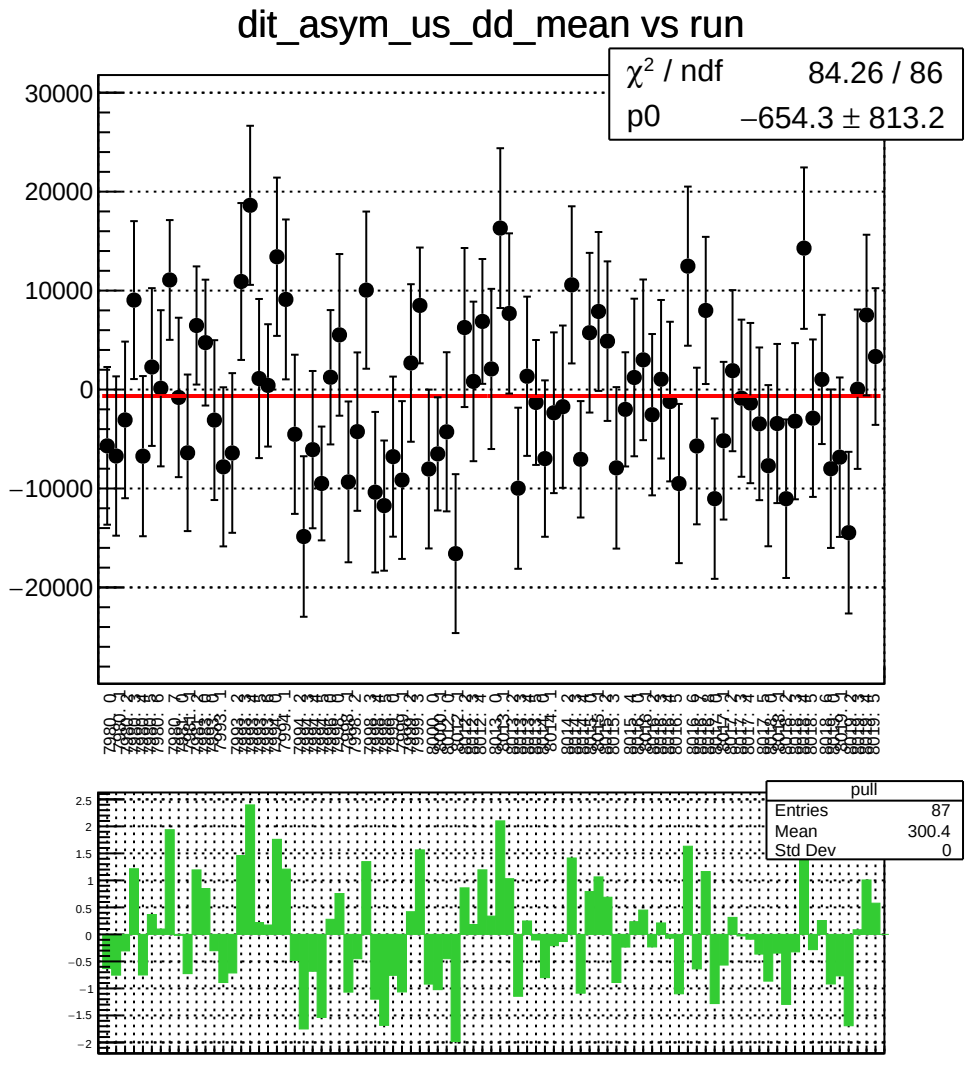

pull1D
Entries 87
Mean −0.007765
Std Dev 0.9926

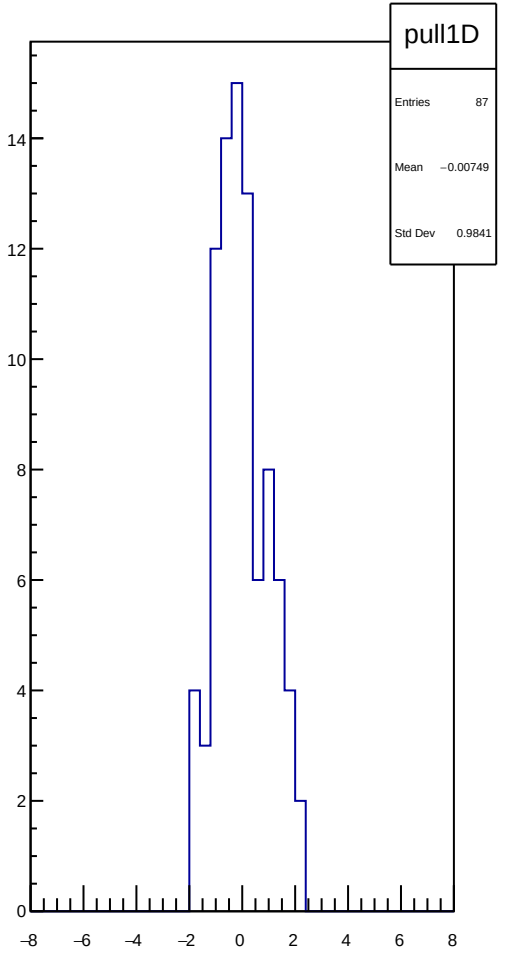

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 136.2 / 86
p0 762.1 ± 0.5744
785
780
775
770
765
760
755
750
745
740

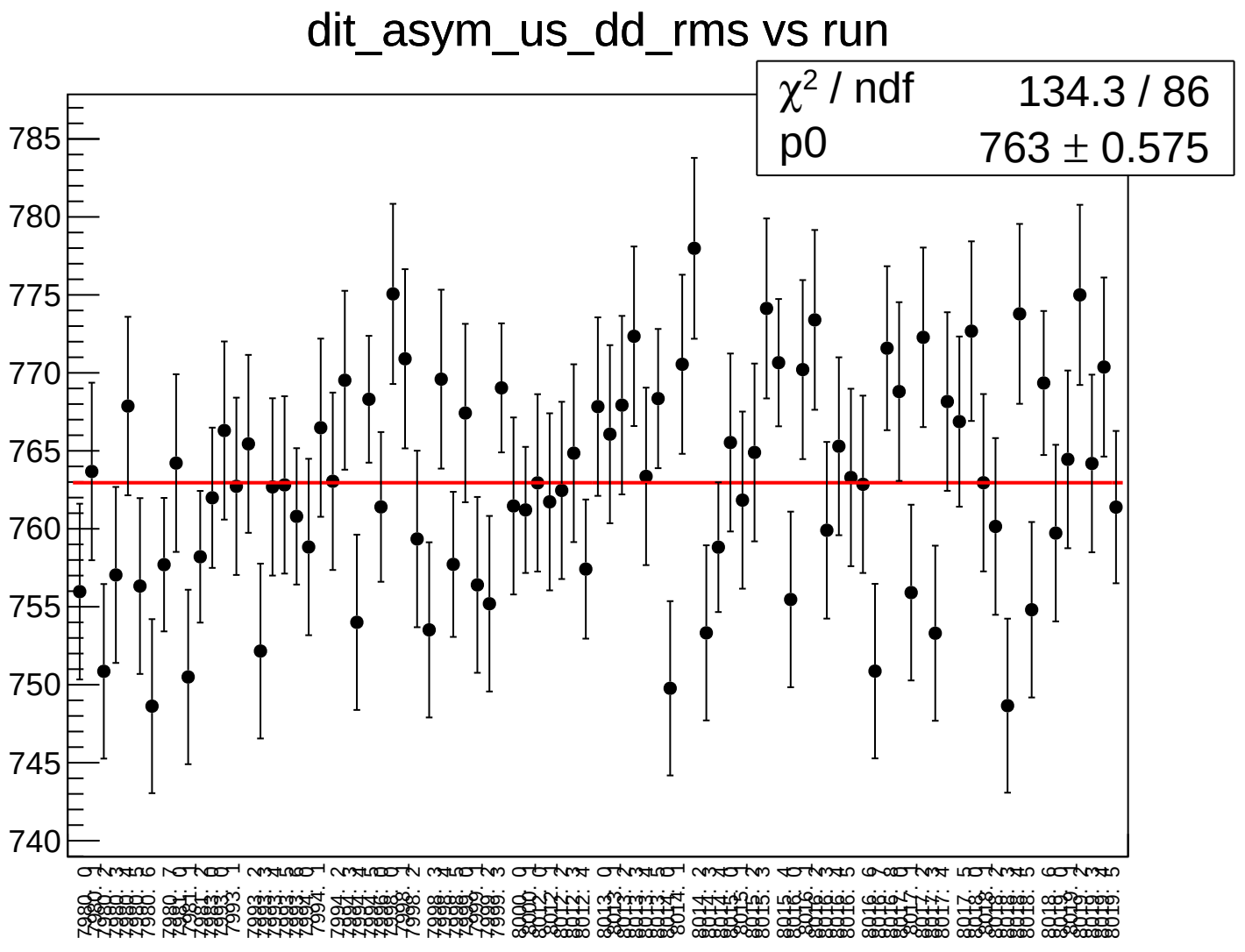

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 117.2 / 86
p0 1332 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 741.4
Std Dev 0
3
2
1
0
−1
−2
−3

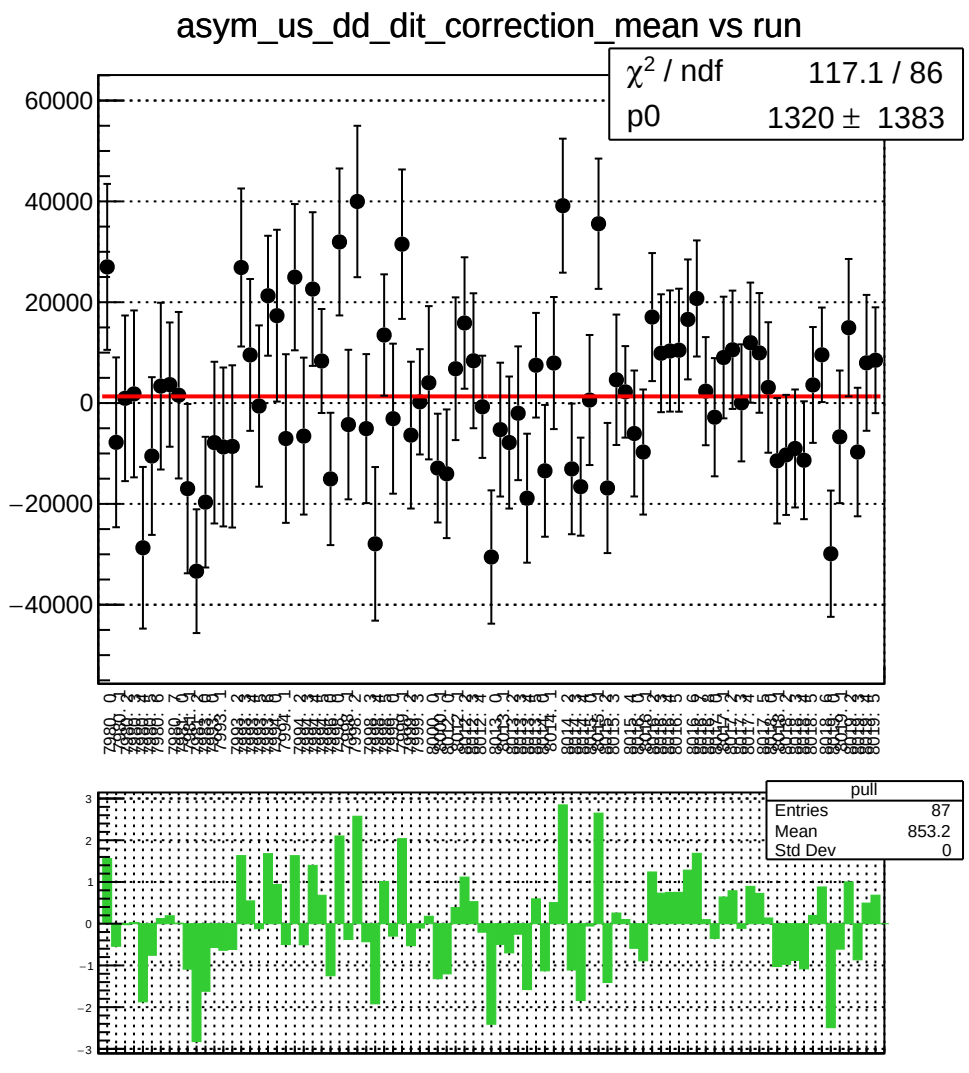

pull1D
Entries 87
Mean 0.001731
Std Dev 1.161
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

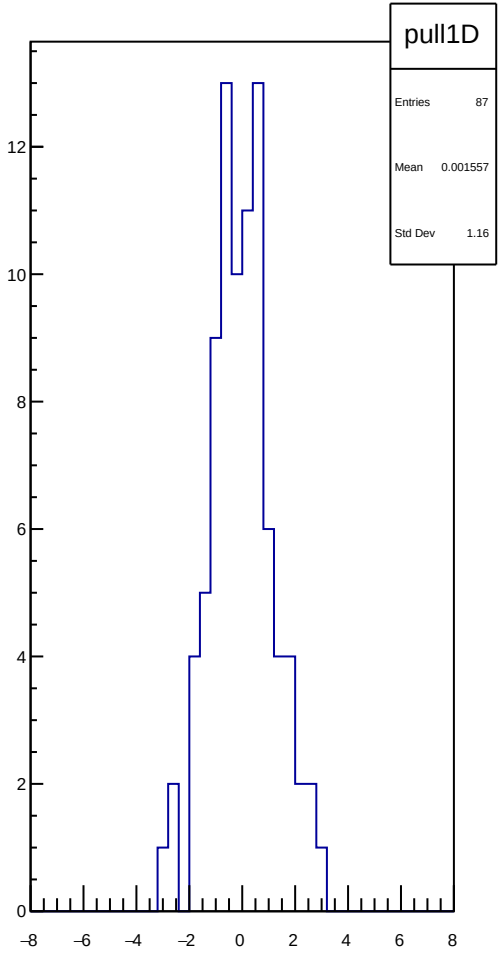

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.416e+04 / 86
p0 1277 ± 0.9689
1600
1500
1400
1300
1200
1100

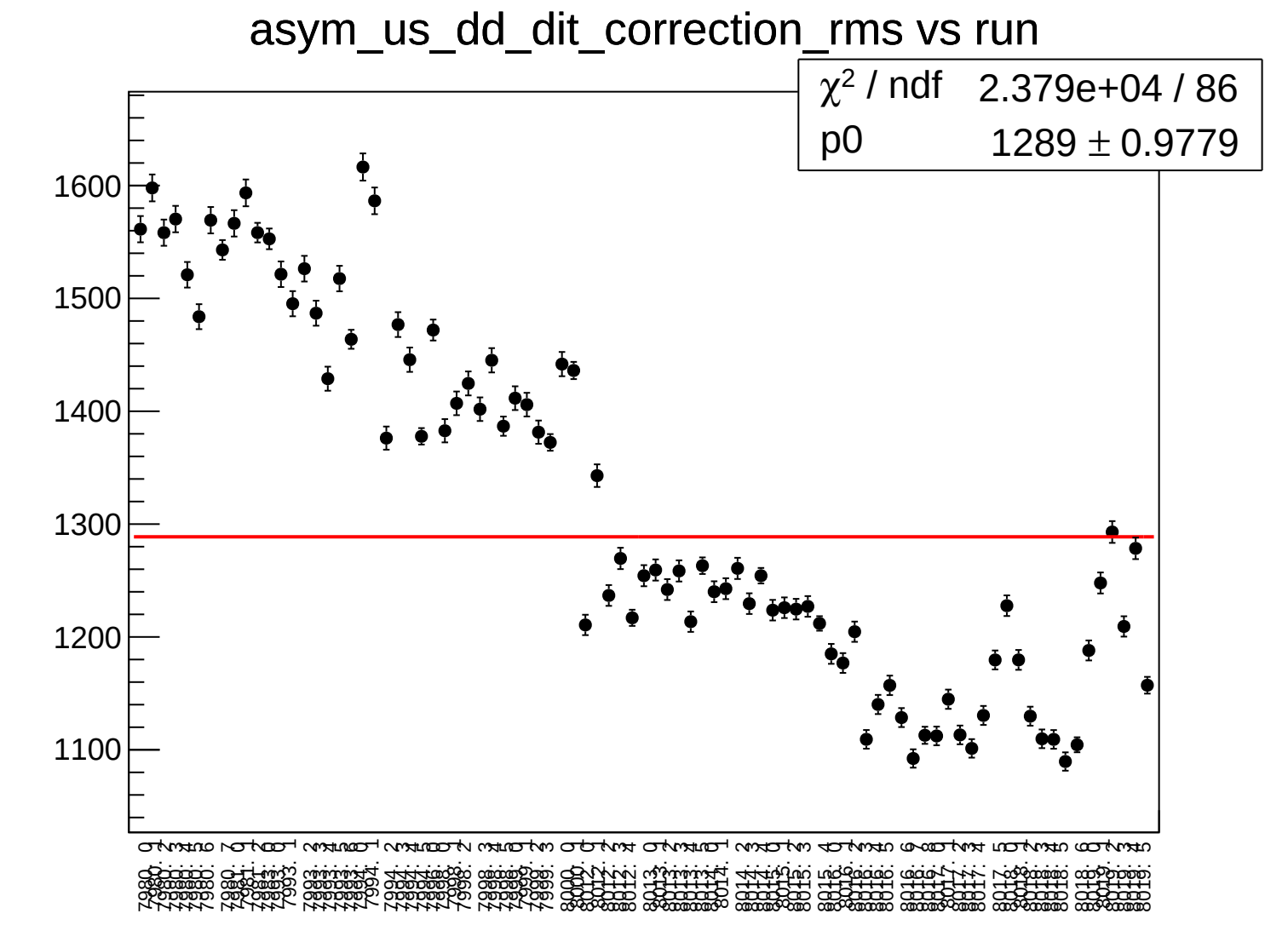

dit_asym_us_dd_mean vs run
χ² / ndf 84.26 / 86
p0 −654.3 ± 813.2
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 300.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

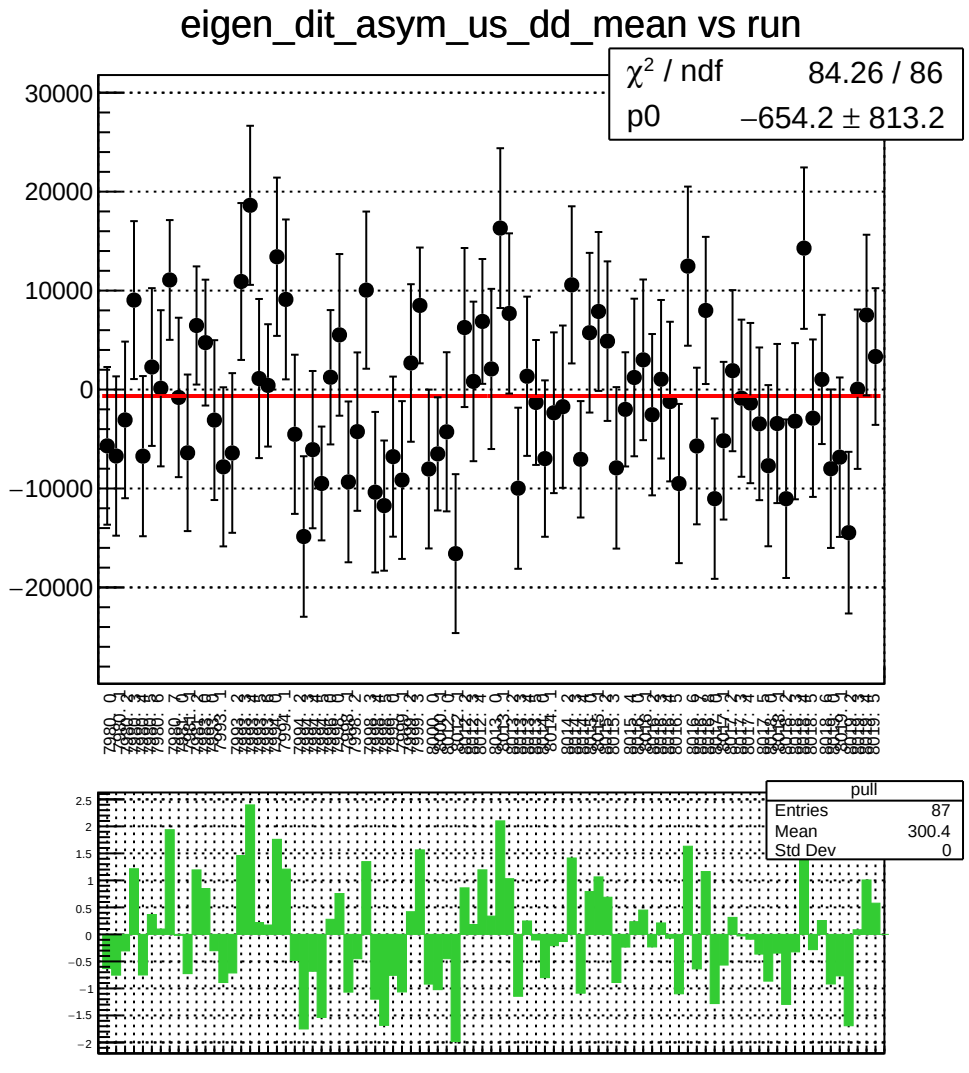

pull1D
Entries 87
Mean −0.00749
Std Dev 0.9841
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

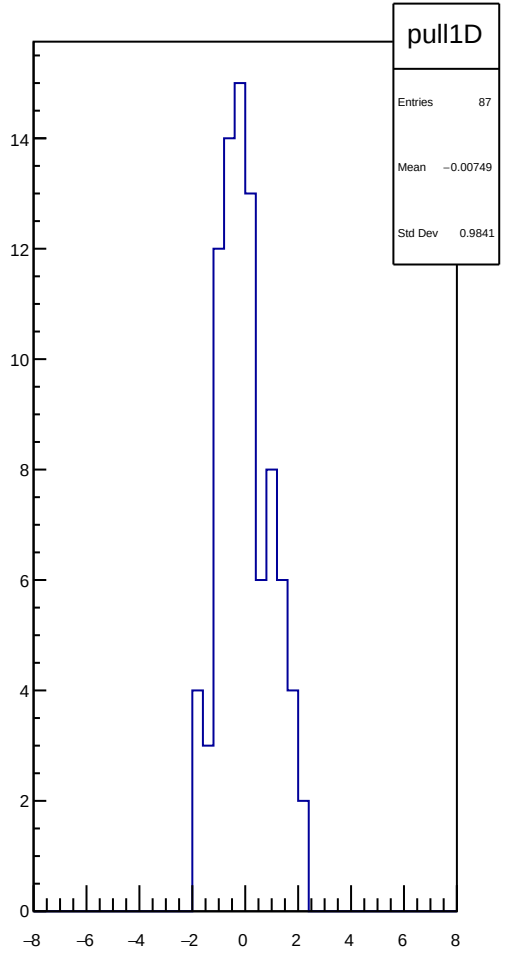

dit_asym_us_dd_rms vs run
χ² / ndf 134.3 / 86
p0 763 ± 0.575
785
780
775
770
765
760
755
750
745
740

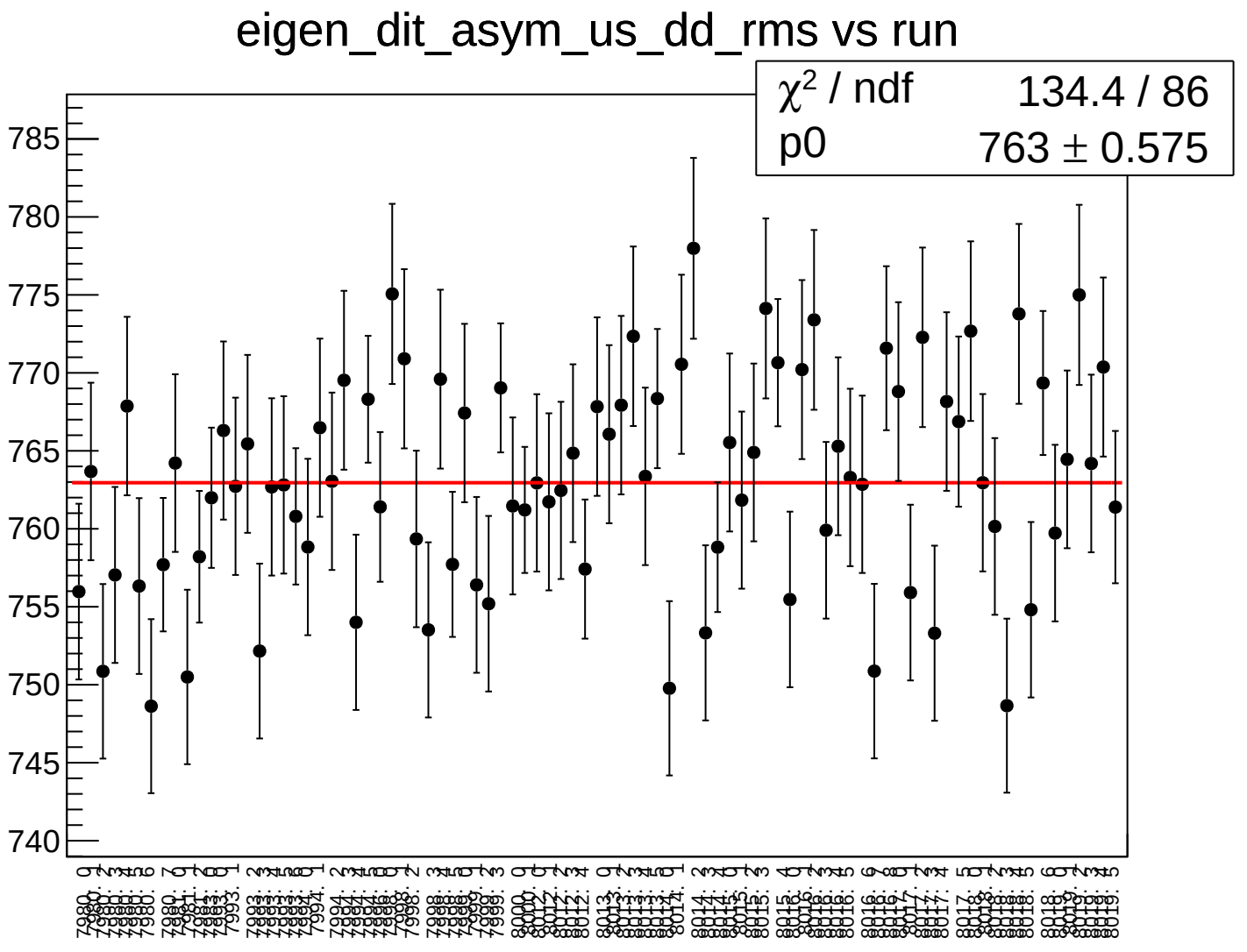

asym_us_dd_dit_correction_mean vs run
χ² / ndf 117.1 / 86
p0 1320 ± 1383
pull
Entries 87
Mean 853.2
Std Dev 0

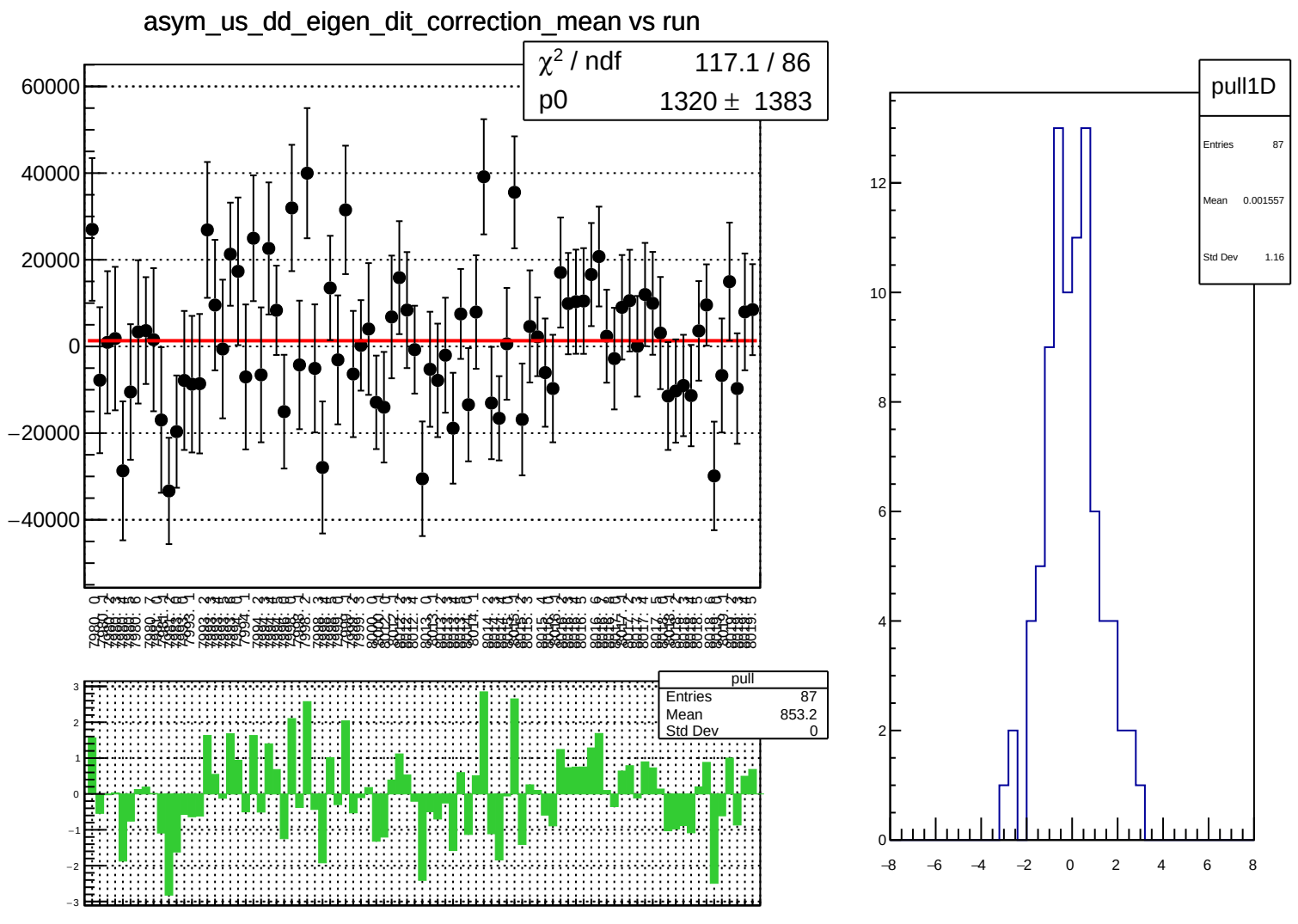

pull1D
Entries 87
Mean 0.001557
Std Dev 1.16

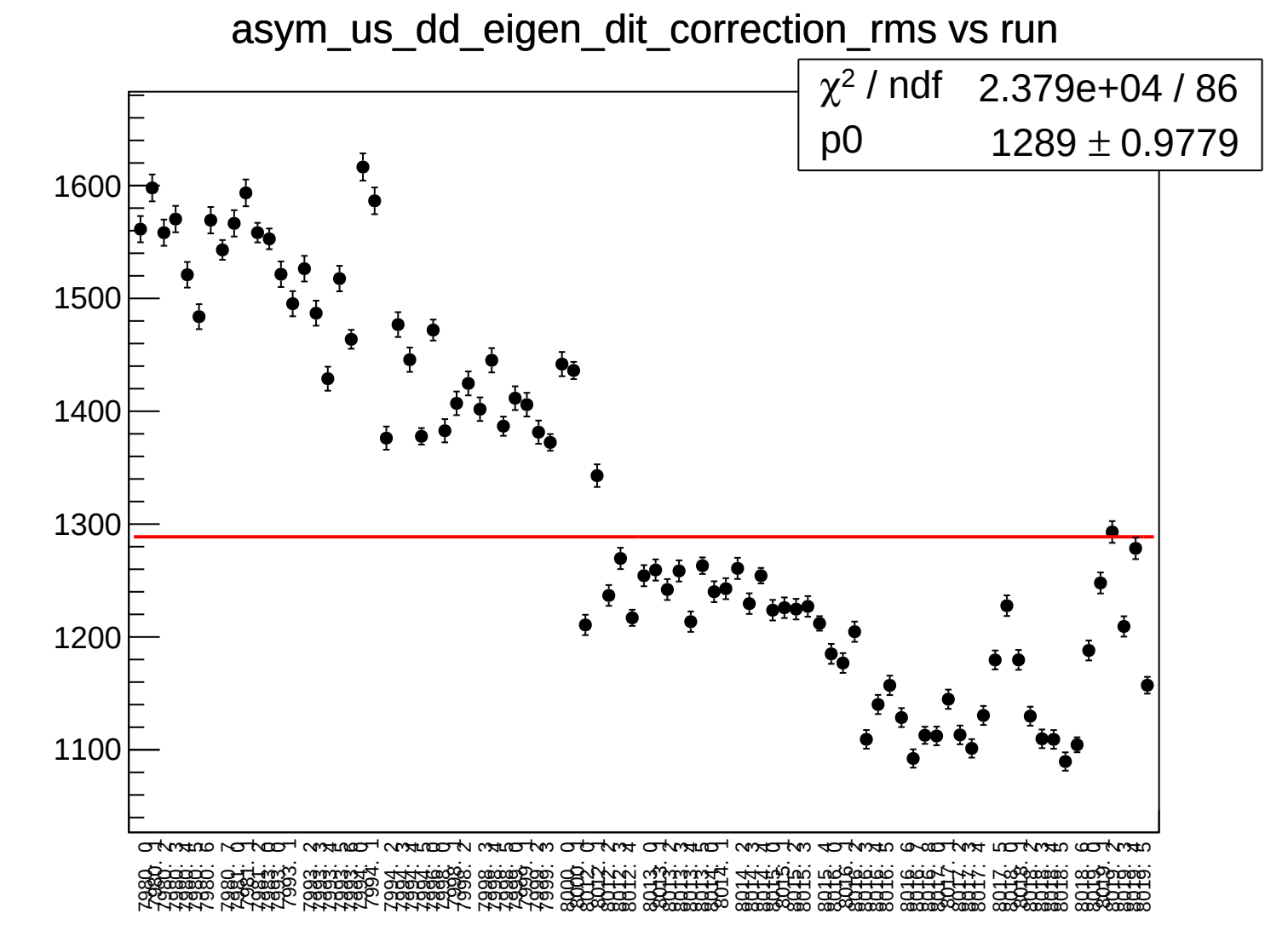

asym_us_dd_dit_correction_rms vs run
χ² / ndf 2.379e+04 / 86
p0 1289 ± 0.9779
1600
1500
1400
1300
1200
1100

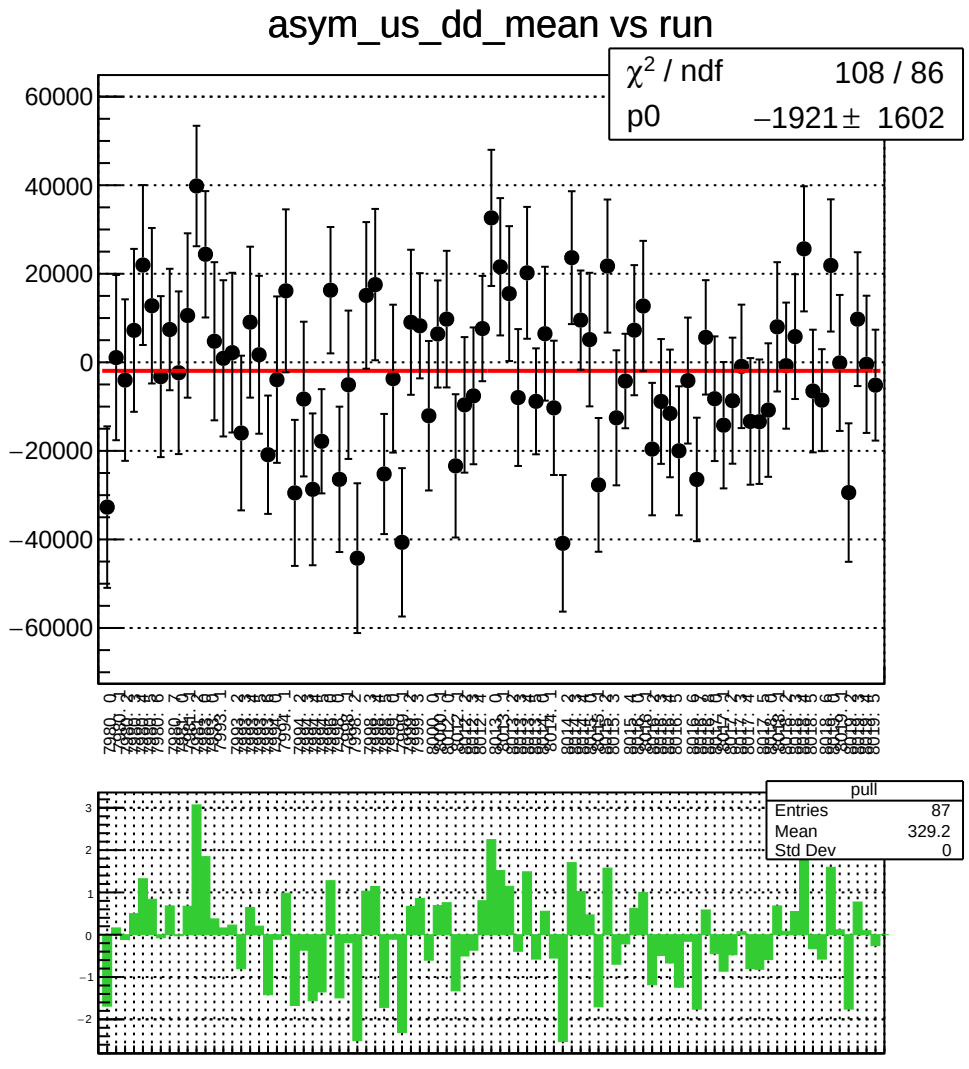

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 84.26 / 86
p0 −654.2 ± 813.2
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 300.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

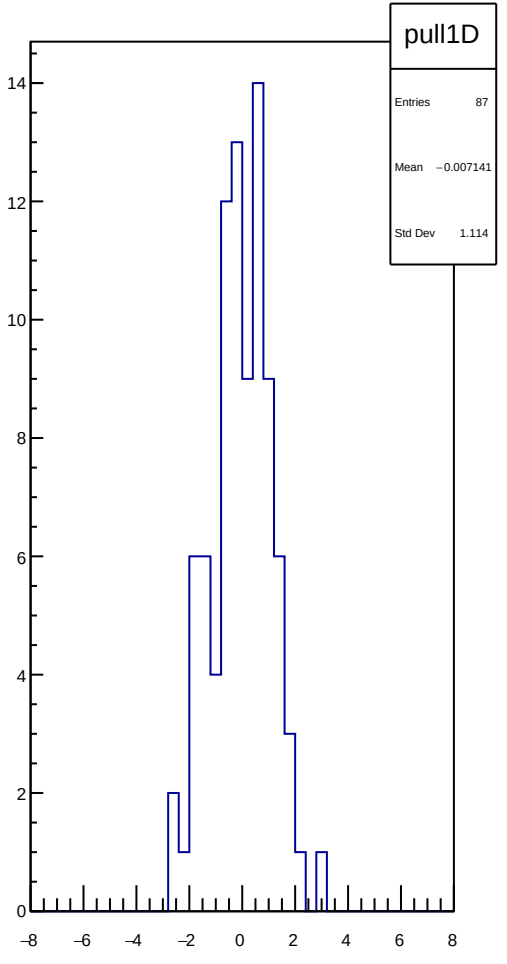

pull1D
Entries 87
Mean −0.00749
Std Dev 0.9841
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

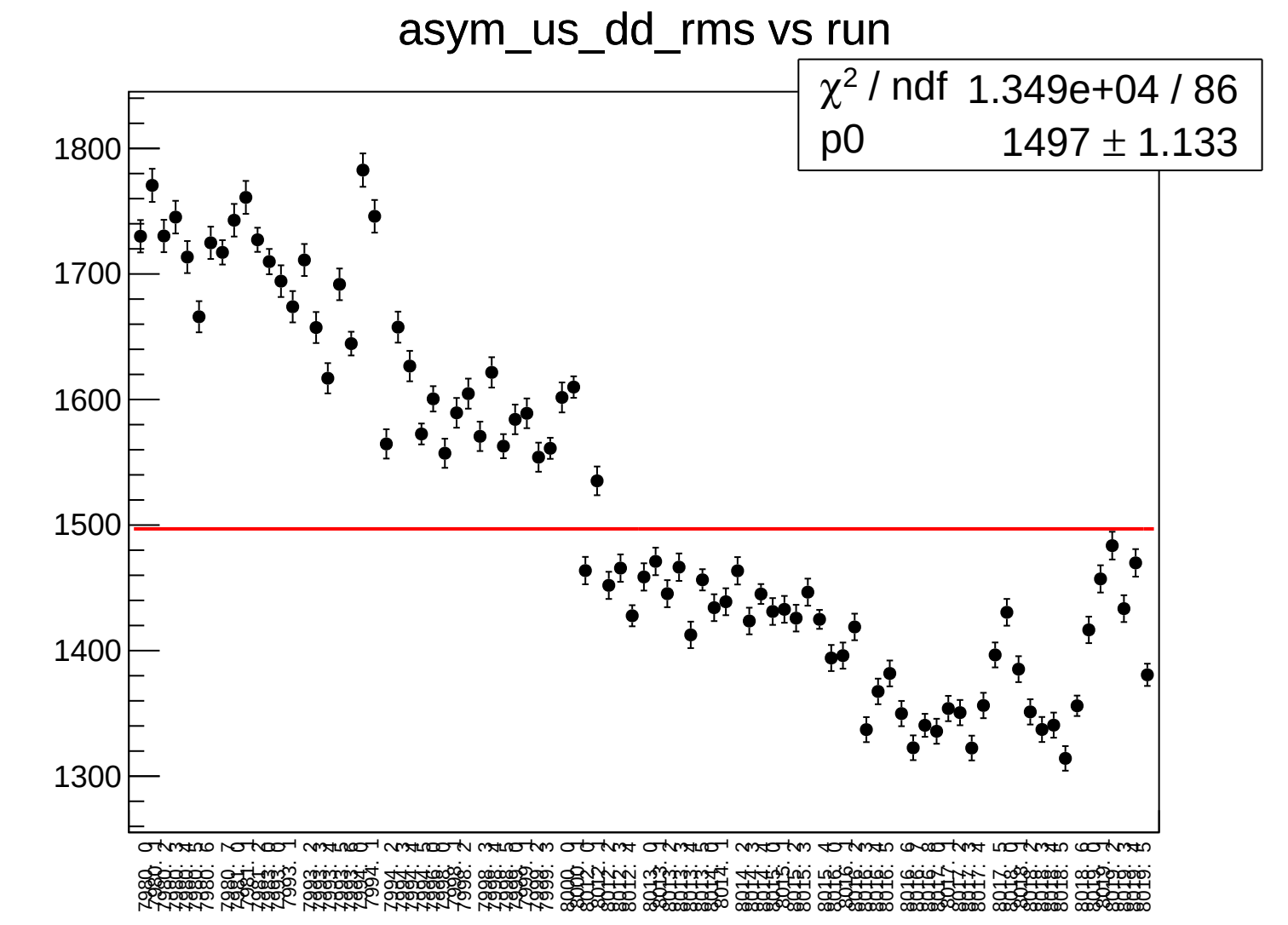

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 134.4 / 86
p0 763 ± 0.575
785
780
775
770
765
760
755
750
745
740

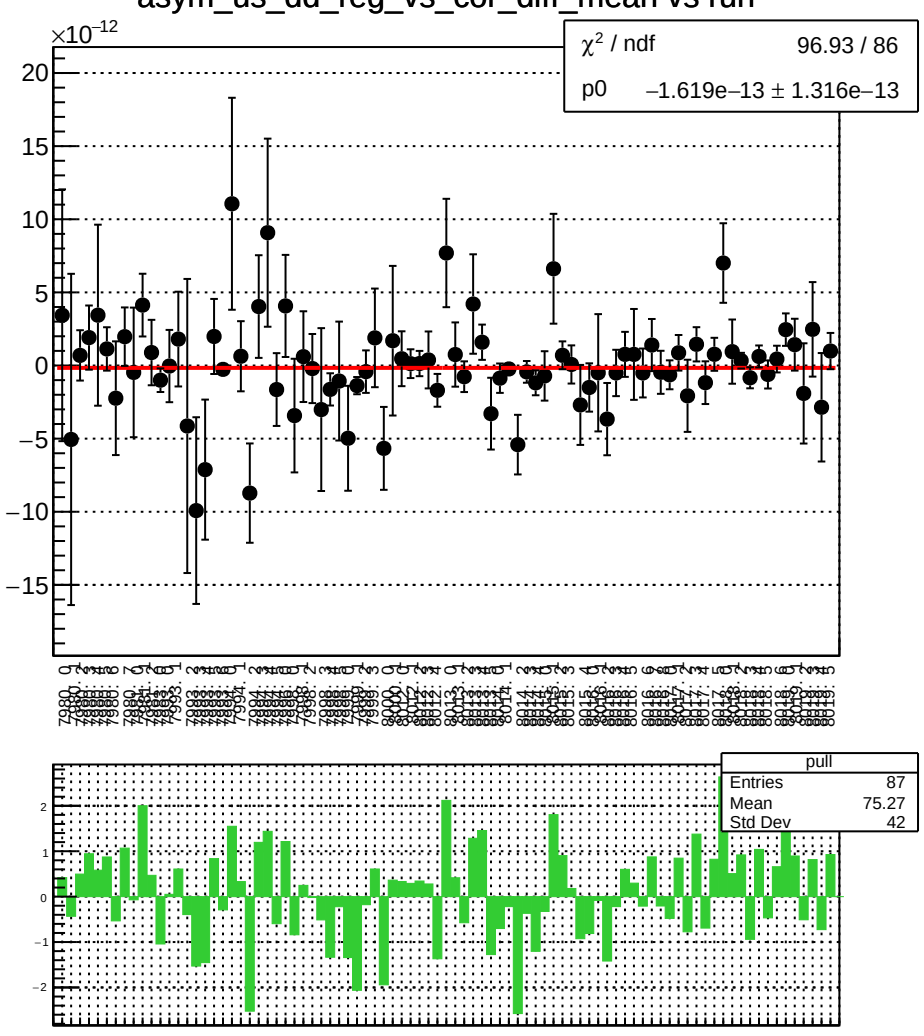

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 117.1 / 86
p0 1320 ± 1383
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 853.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.001557
Std Dev 1.16
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

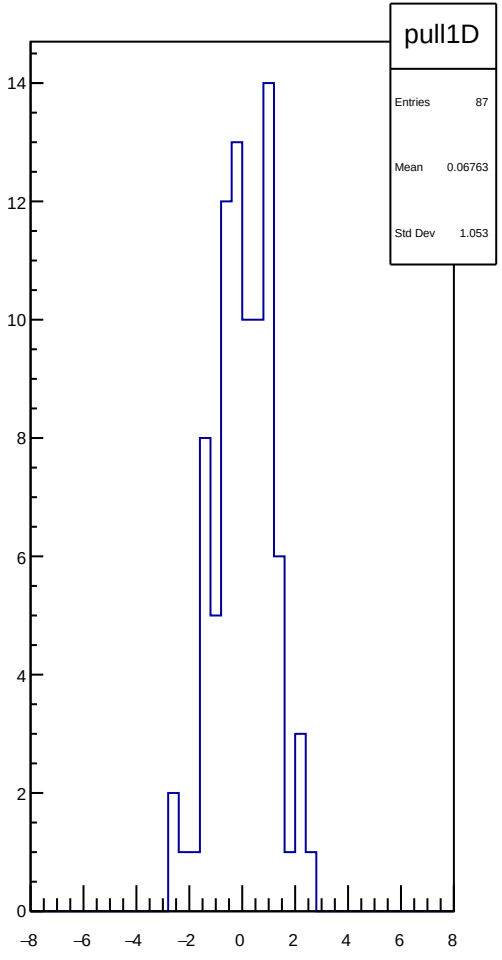

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.379e+04 / 86
p0 1289 ± 0.9779
1600
1500
1400
1300
1200
1100

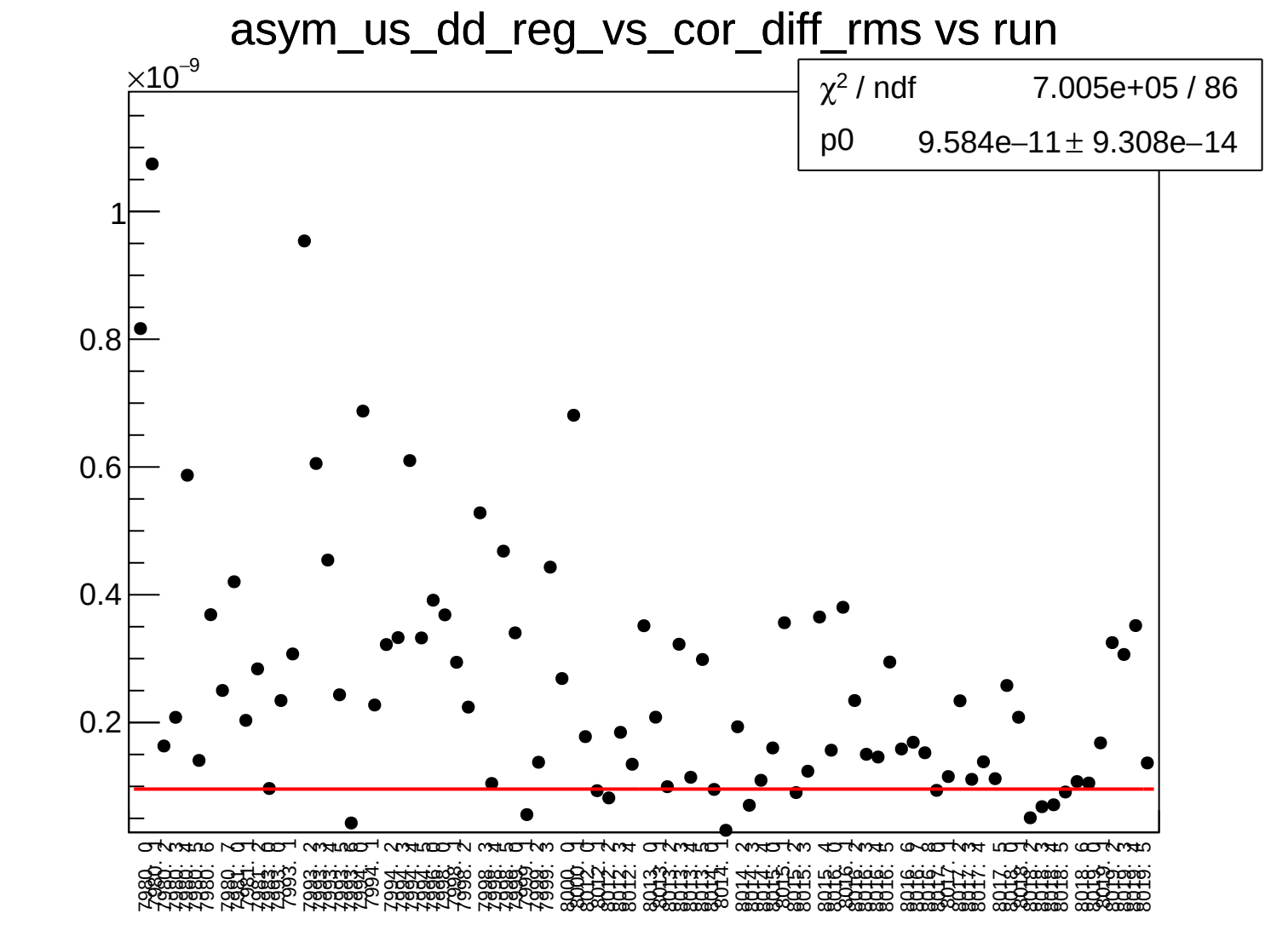

asym_us_dd_mean vs run
χ² / ndf 108 / 86
p0 −1921 ± 1602
pull
Entries 87
Mean 329.2
Std Dev 0

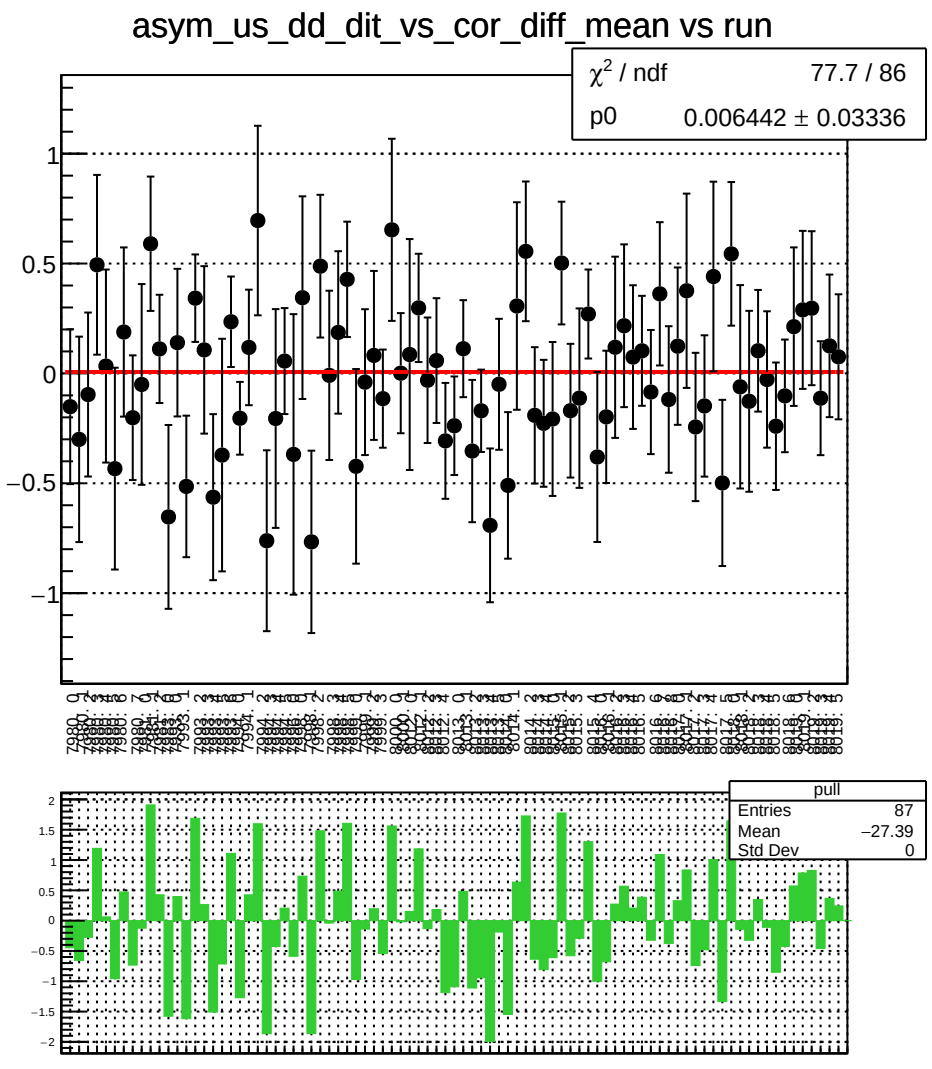

pull1D
Entries 87
Mean −0.007141
Std Dev 1.114

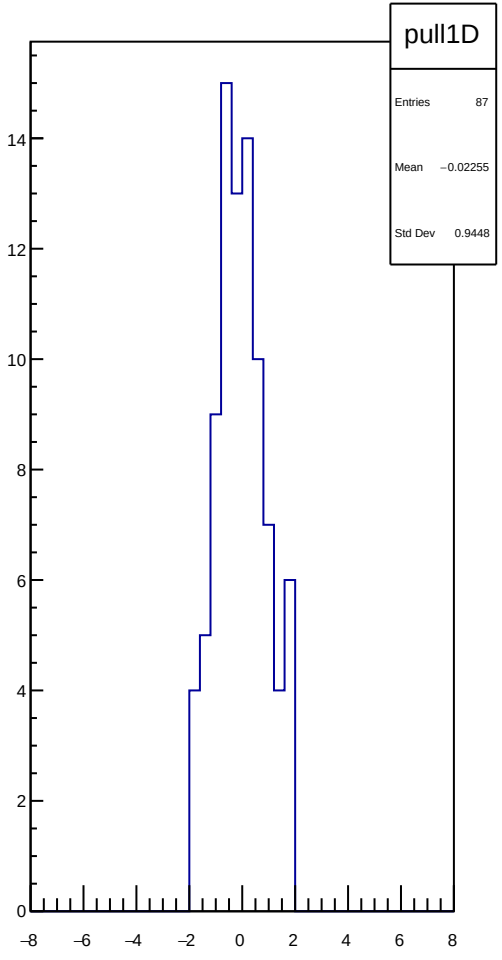

asym_us_dd_rms vs run
χ² / ndf 1.349e+04 / 86
p0 1497 ± 1.133
1800
1700
1600
1500
1400
1300

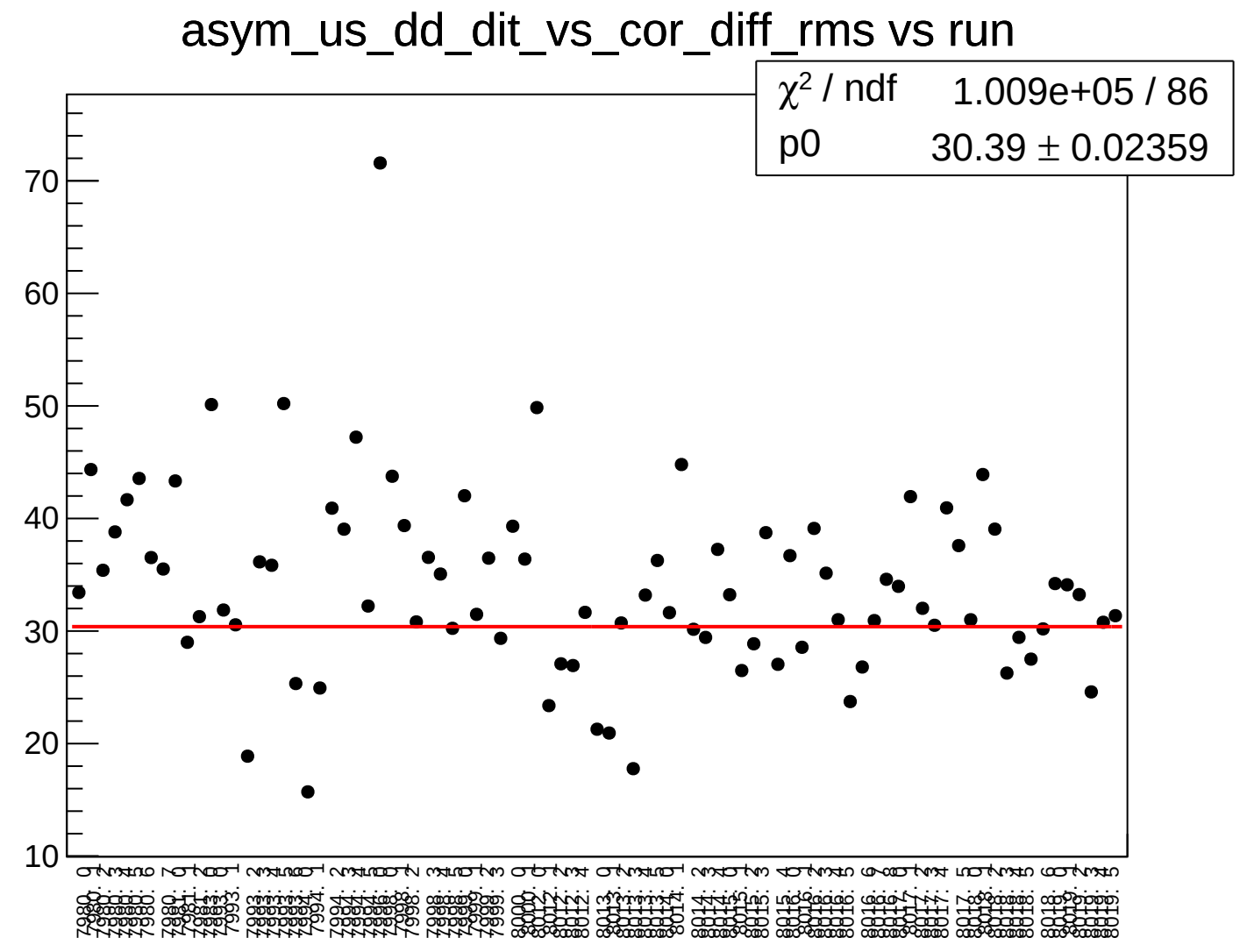

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.93 / 86
p0 −1.619e−13 ± 1.316e−13
pull
Entries 87
Mean 75.27
Std Dev 42

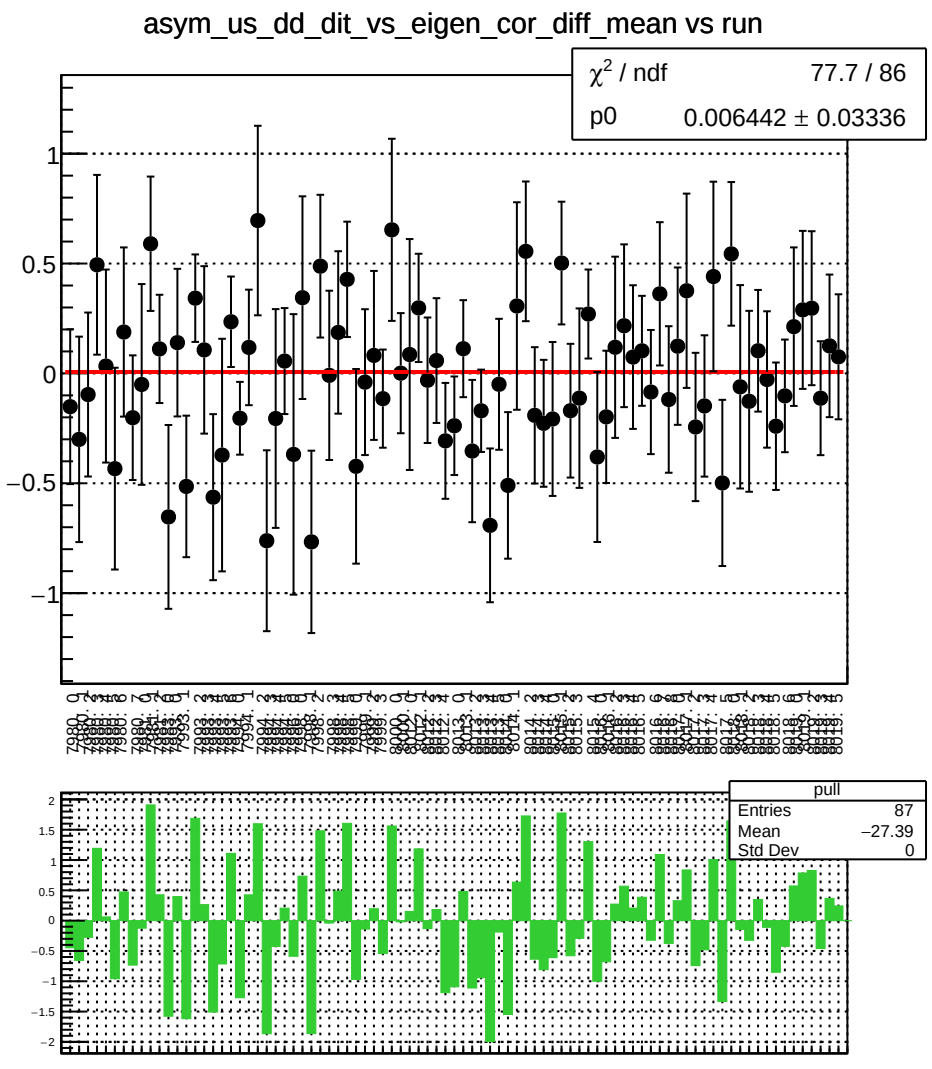

pull1D
Entries 87
Mean 0.06763
Std Dev 1.053

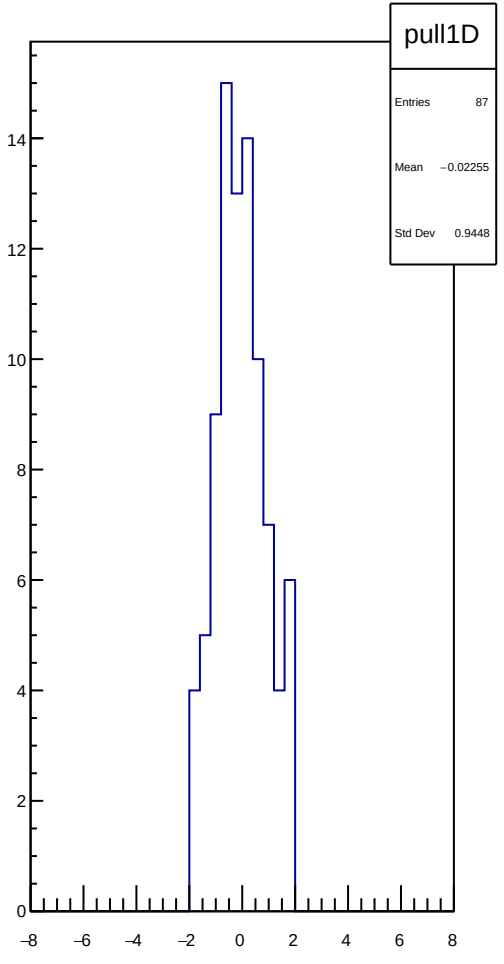

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.005e+05 / 86
p0 9.584e−11 ± 9.308e−14
1
0.8
0.6
0.4
0.2

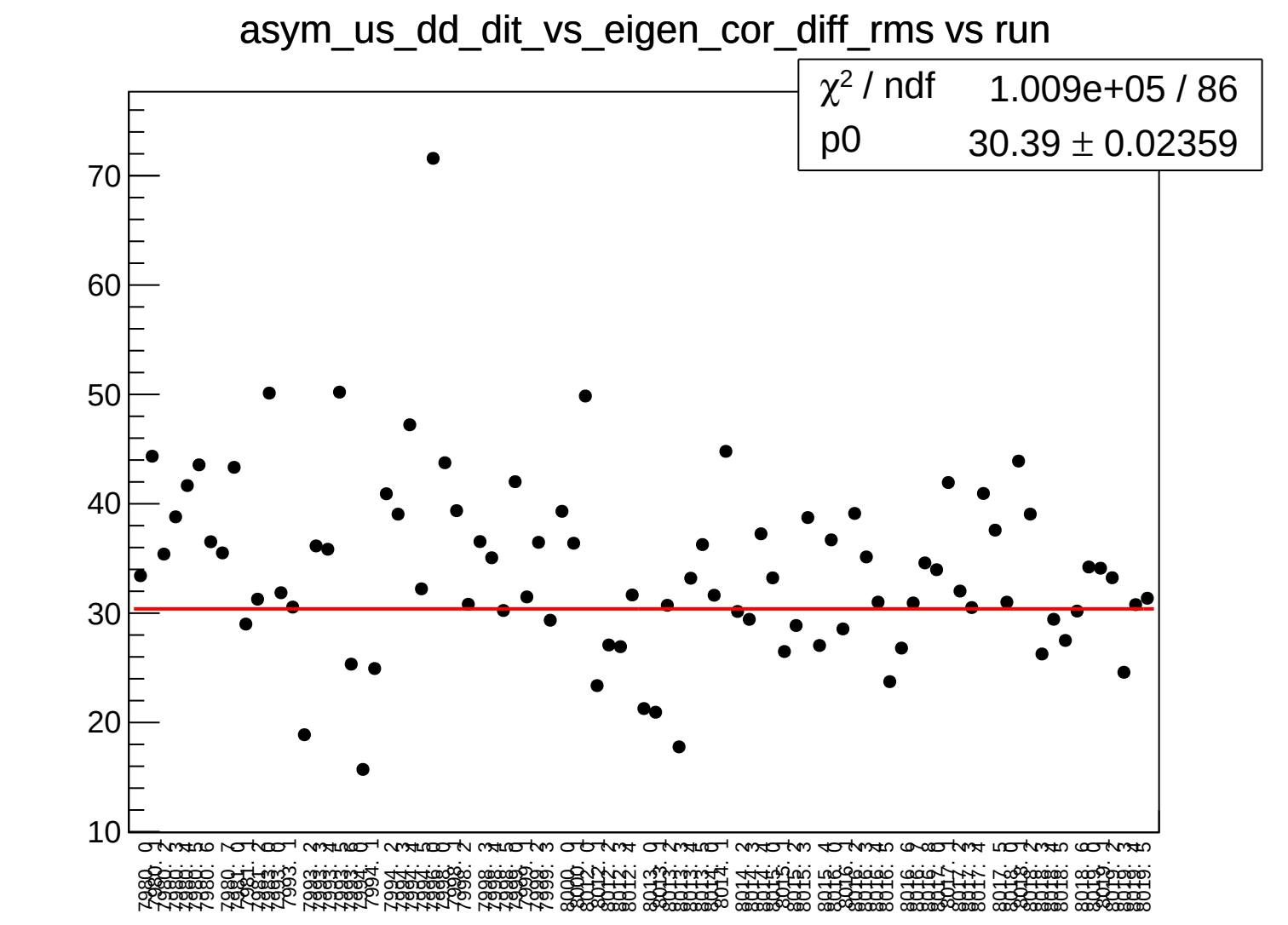

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.7 / 86
p0 0.006442 ± 0.03336
pull
Entries 87
Mean −27.39
Std Dev 0

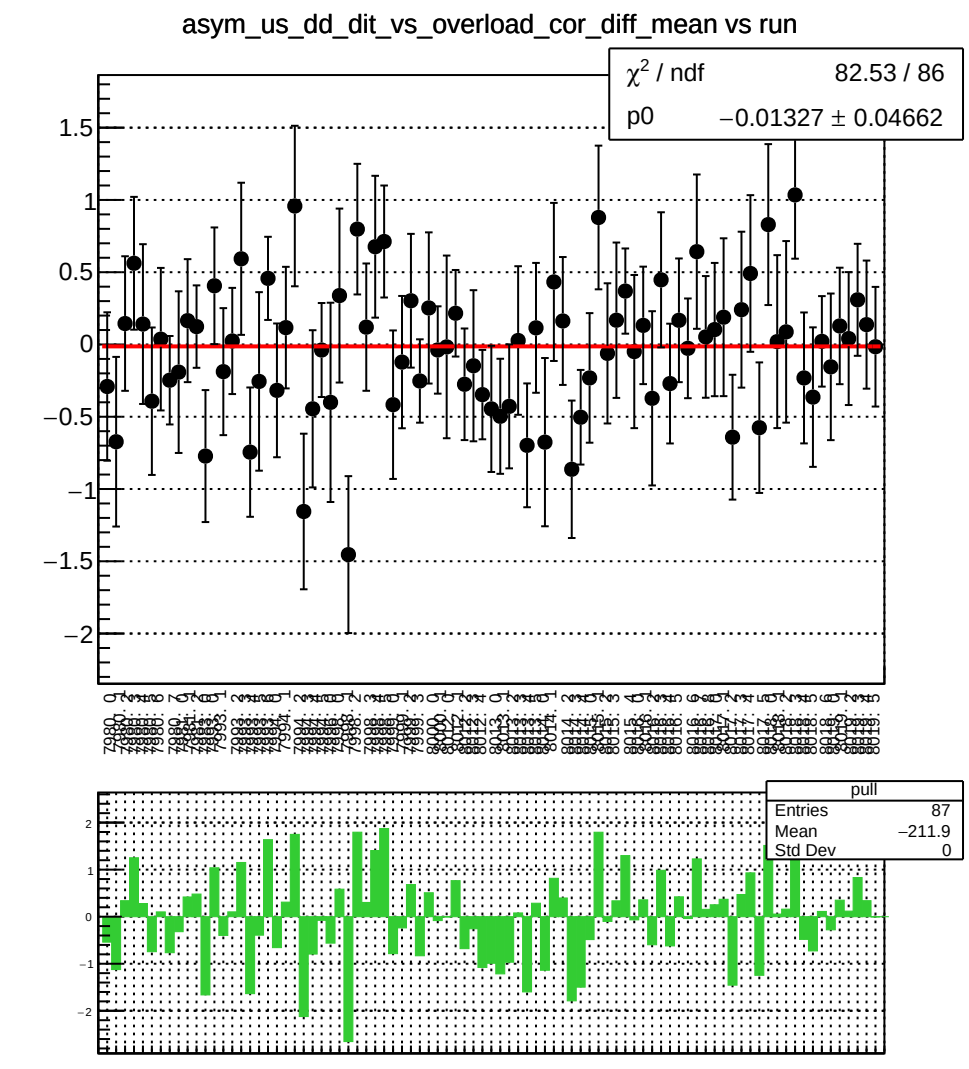

pull1D
Entries 87
Mean −0.02255
Std Dev 0.9448

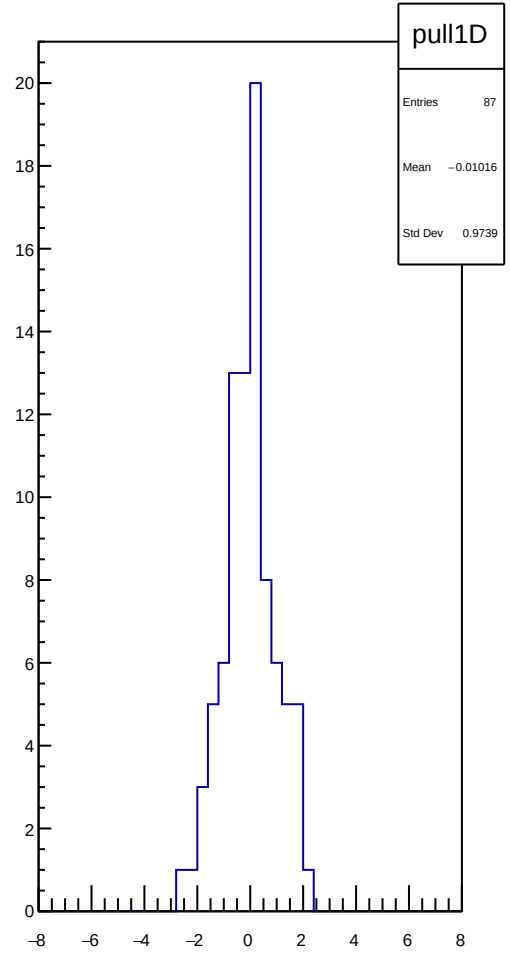

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.009e+05 / 86
p0 30.39 ± 0.02359
70
60
50
40
30
20
10

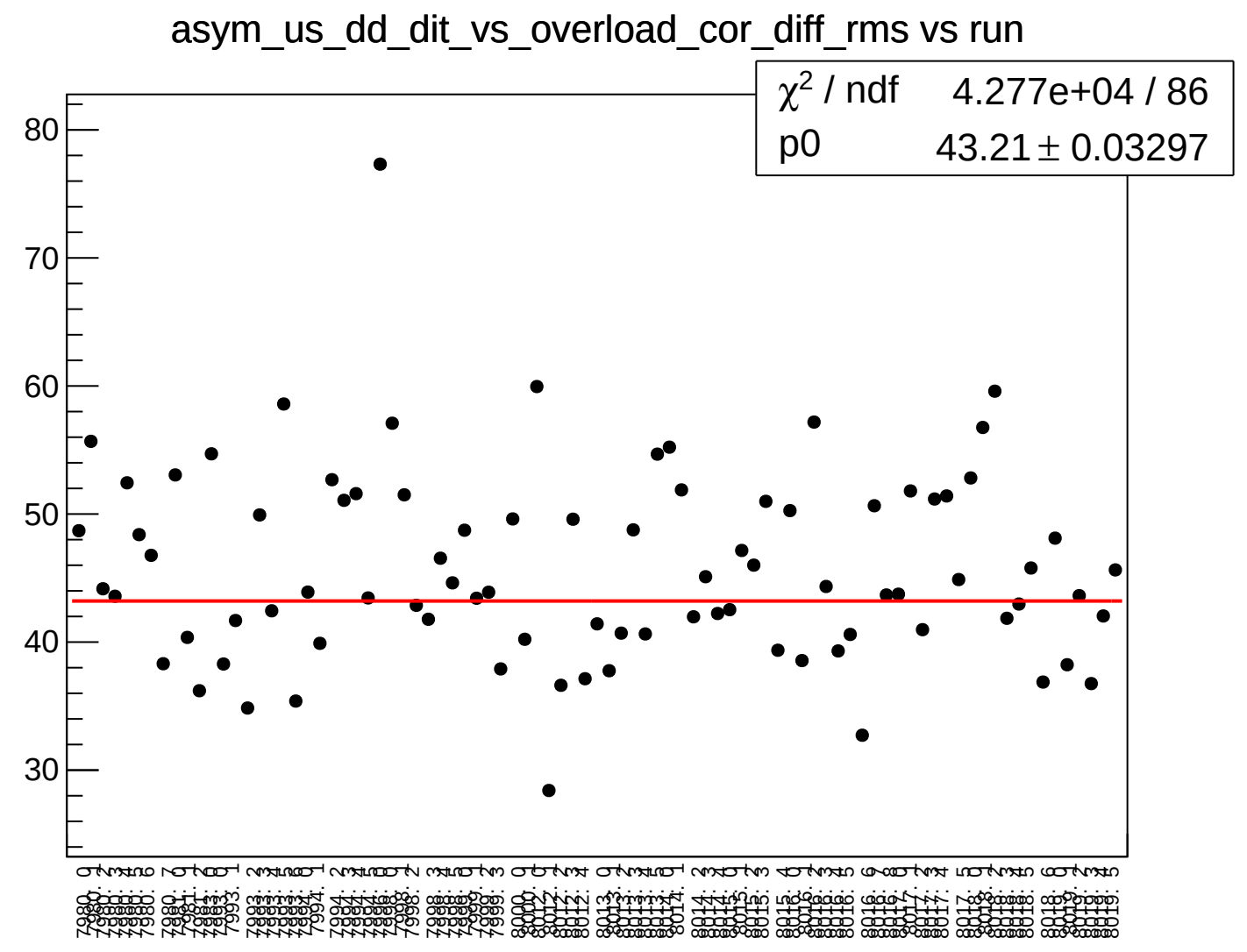

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.7 / 86
p0 0.006442 ± 0.03336
pull
Entries 87
Mean −27.39
Std Dev 0

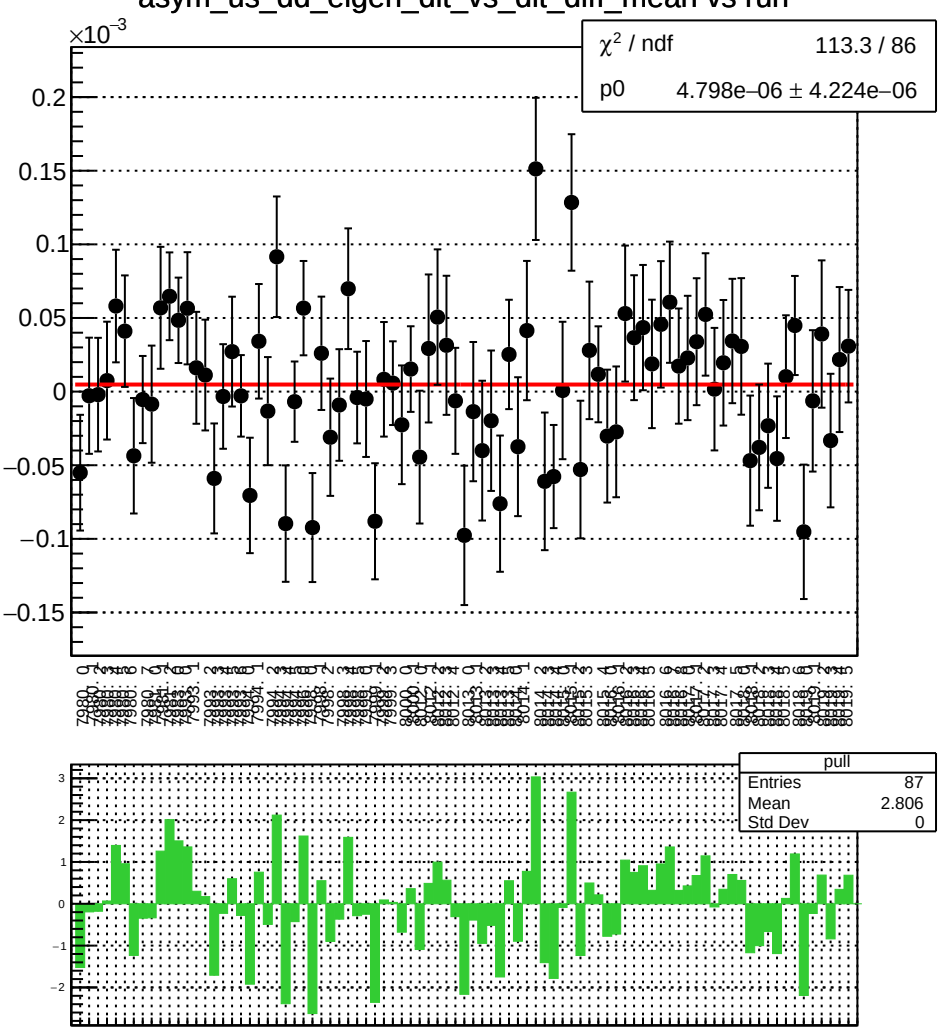

pull1D
Entries 87
Mean −0.02255
Std Dev 0.9448

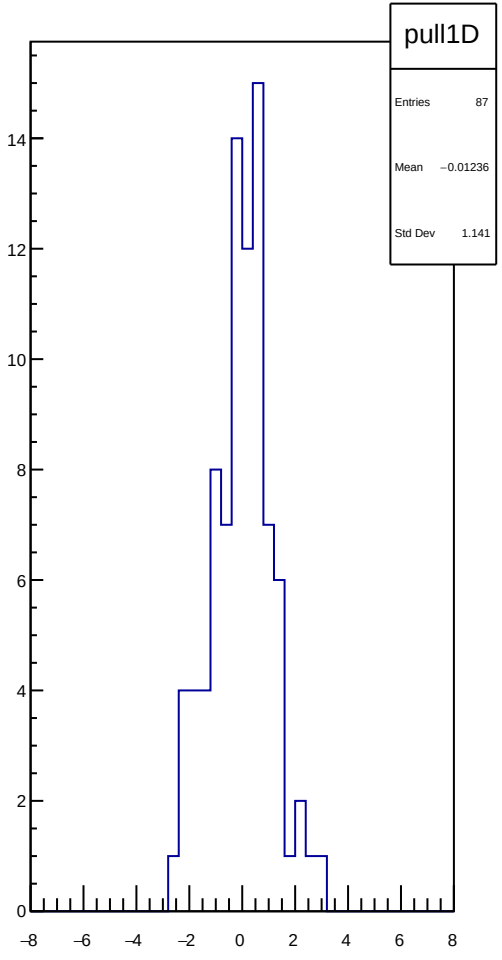

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.009e+05 / 86
p0 30.39 ± 0.02359
70
60
50
40
30
20
10

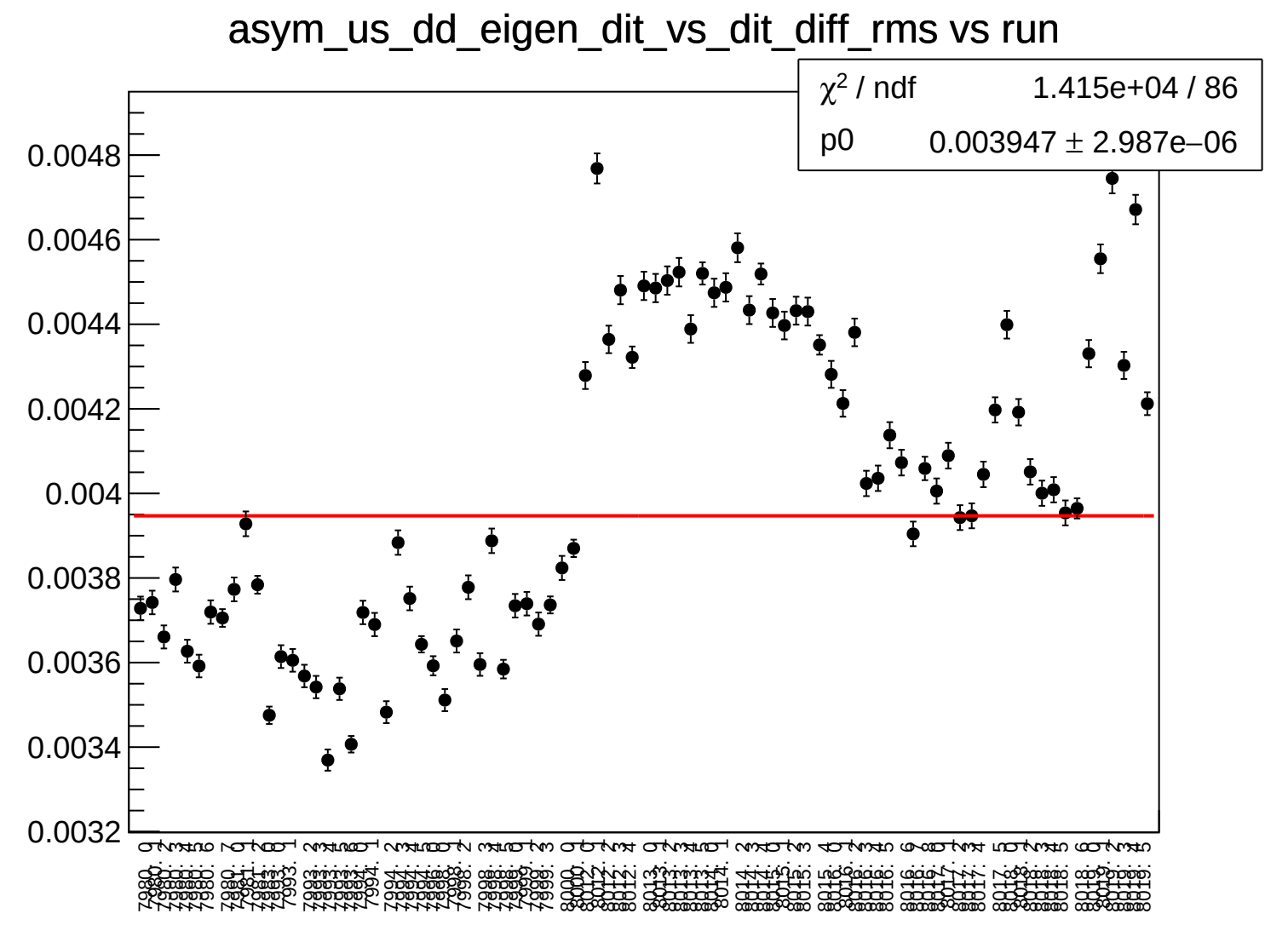

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 82.53 / 86
p0 −0.01327 ± 0.04662
pull
Entries 87
Mean −211.9
Std Dev 0

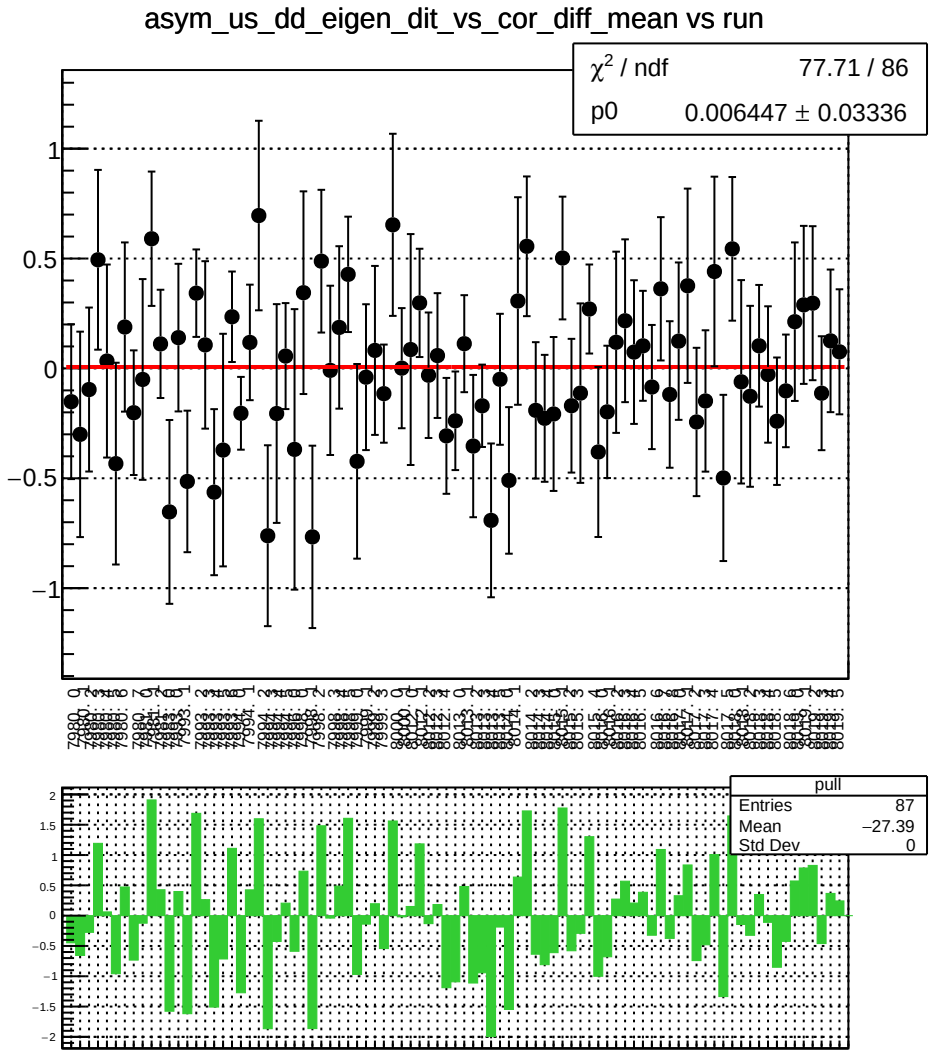

pull1D
Entries 87
Mean −0.01016
Std Dev 0.9739

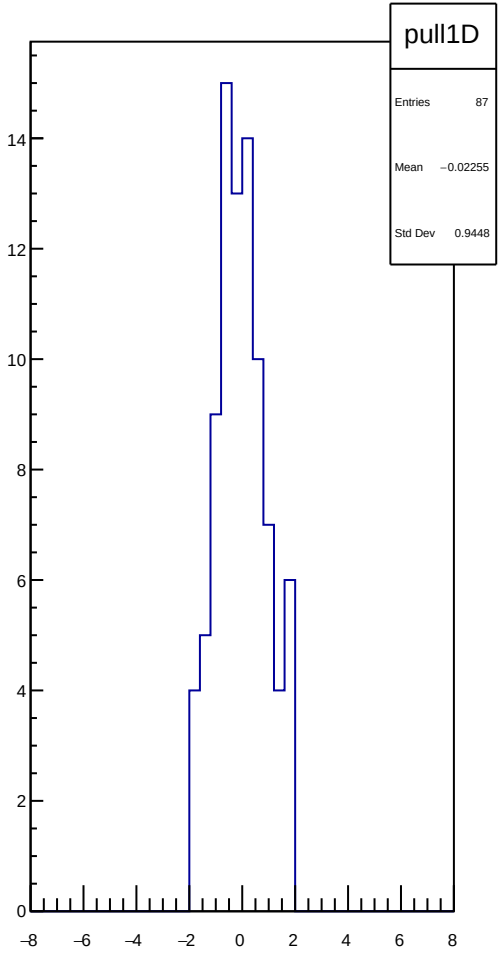

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.277e+04 / 86
p0 43.21 ± 0.03297
80
70
60
50
40
30

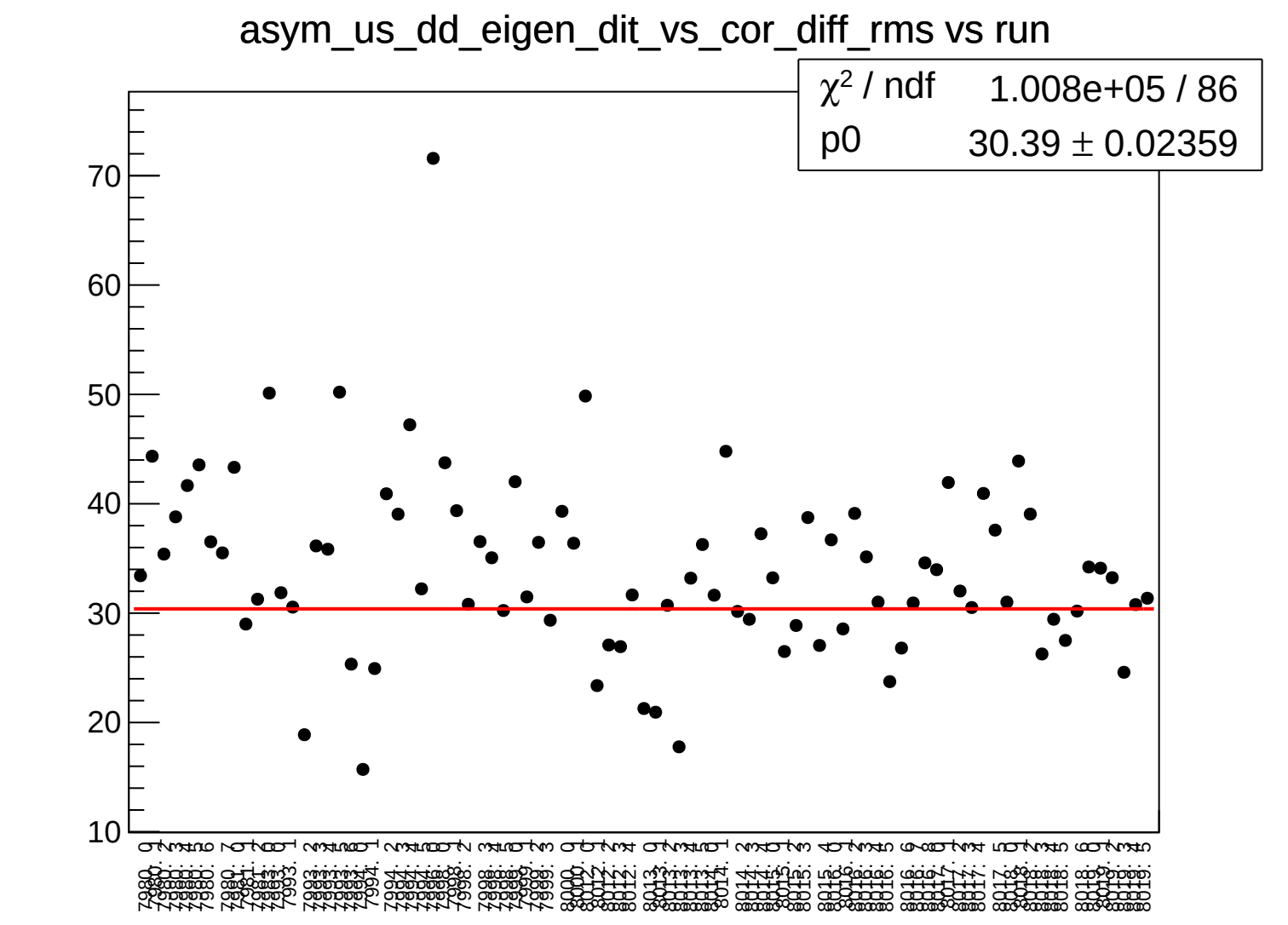

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.3 / 86
p0 4.798e−06 ± 4.224e−06
pull
Entries 87
Mean 2.806
Std Dev 0

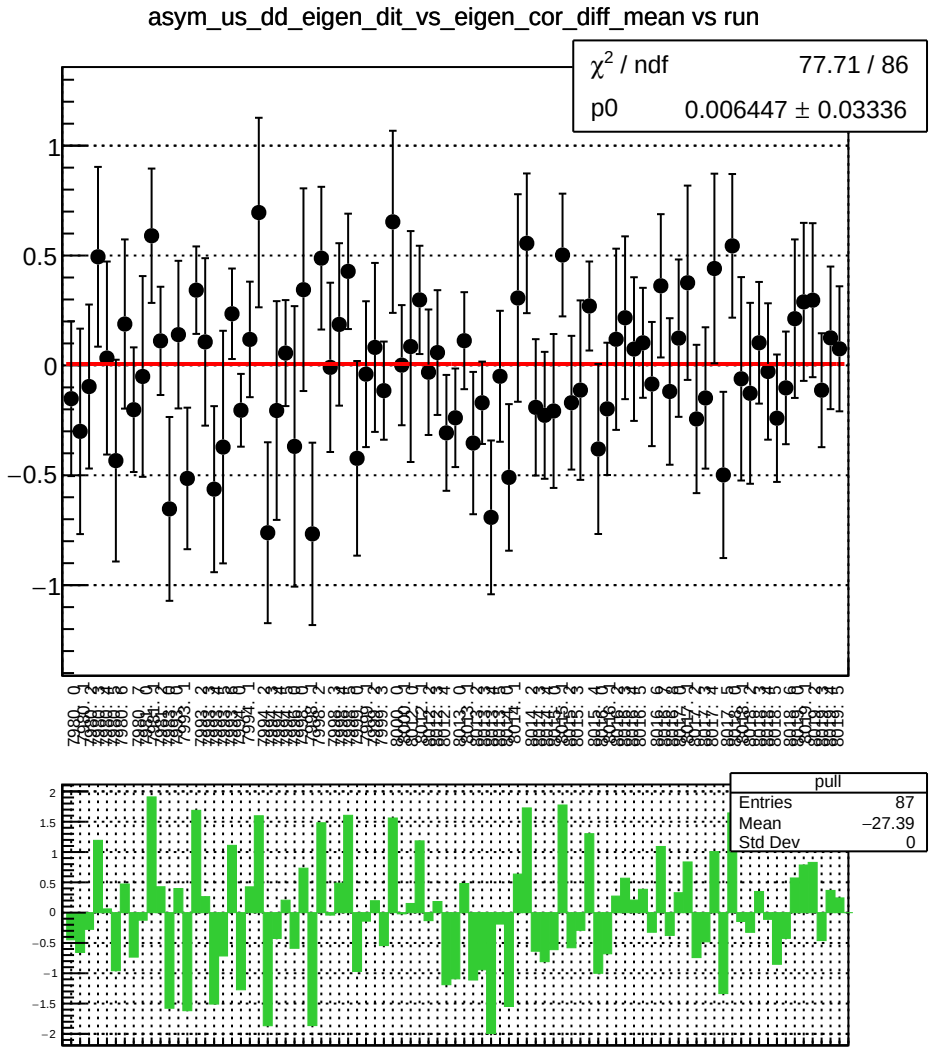

pull1D
Entries 87
Mean −0.01236
Std Dev 1.141

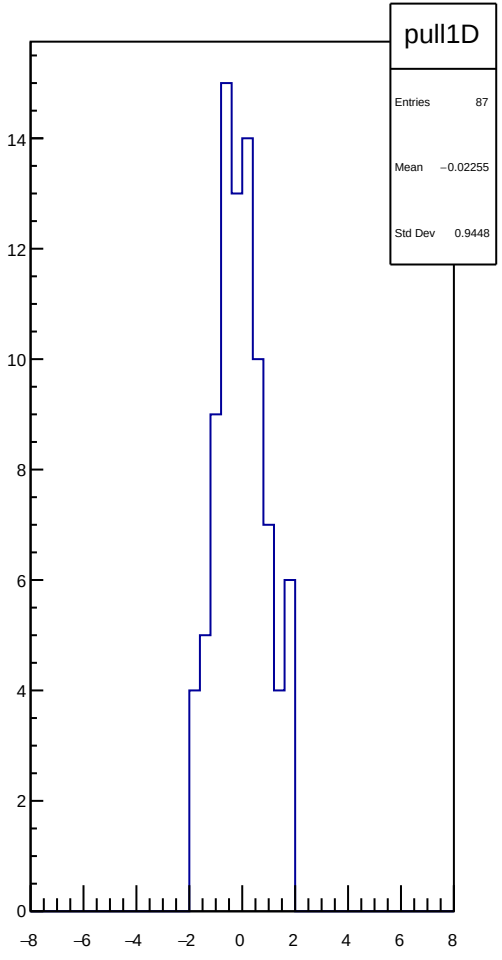

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.415e+04 / 86
p0 0.003947 ± 2.987e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

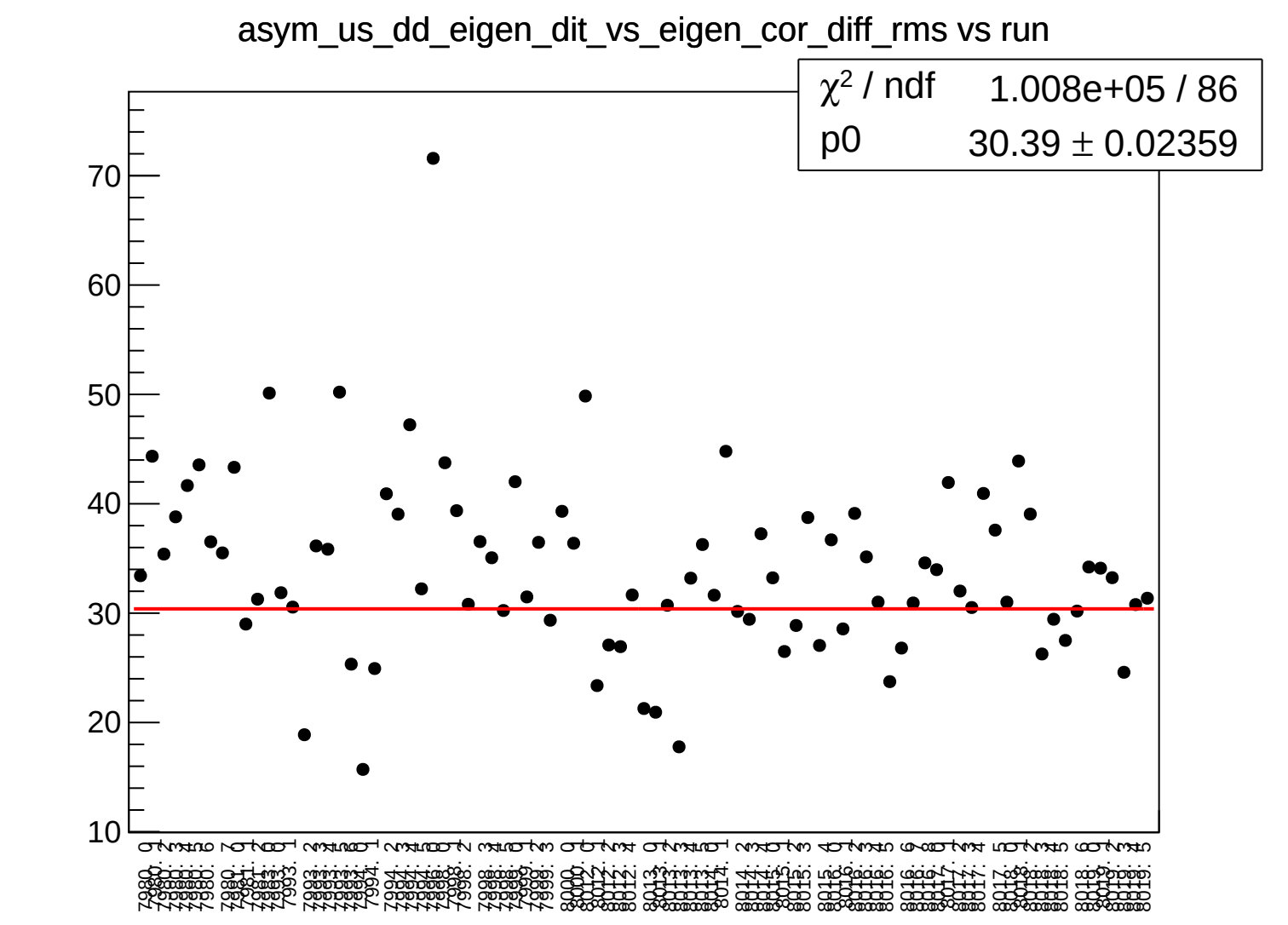

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.71 / 86
p0 0.006447 ± 0.03336
pull
Entries 87
Mean −27.39
Std Dev 0

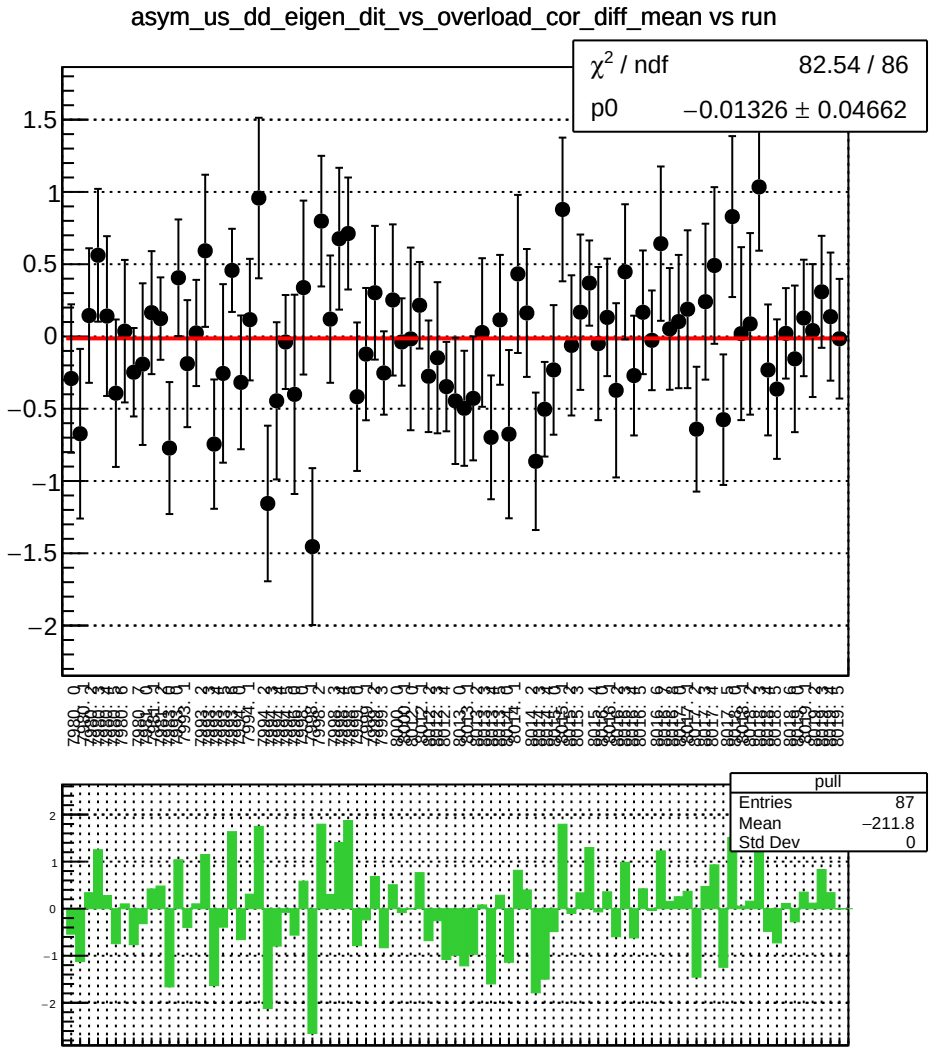

pull1D
Entries 87
Mean −0.02255
Std Dev 0.9448

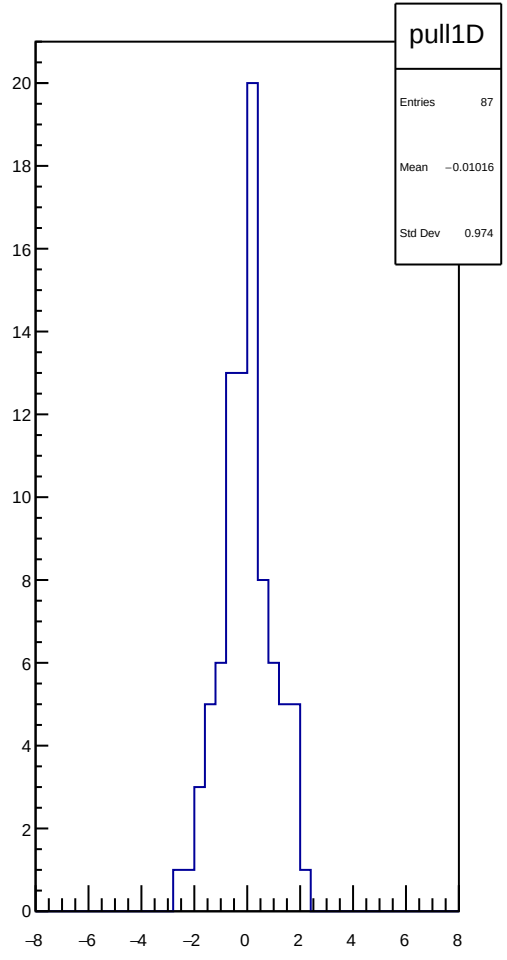

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.008e+05 / 86
p0 30.39 ± 0.02359
70
60
50
40
30
20
10

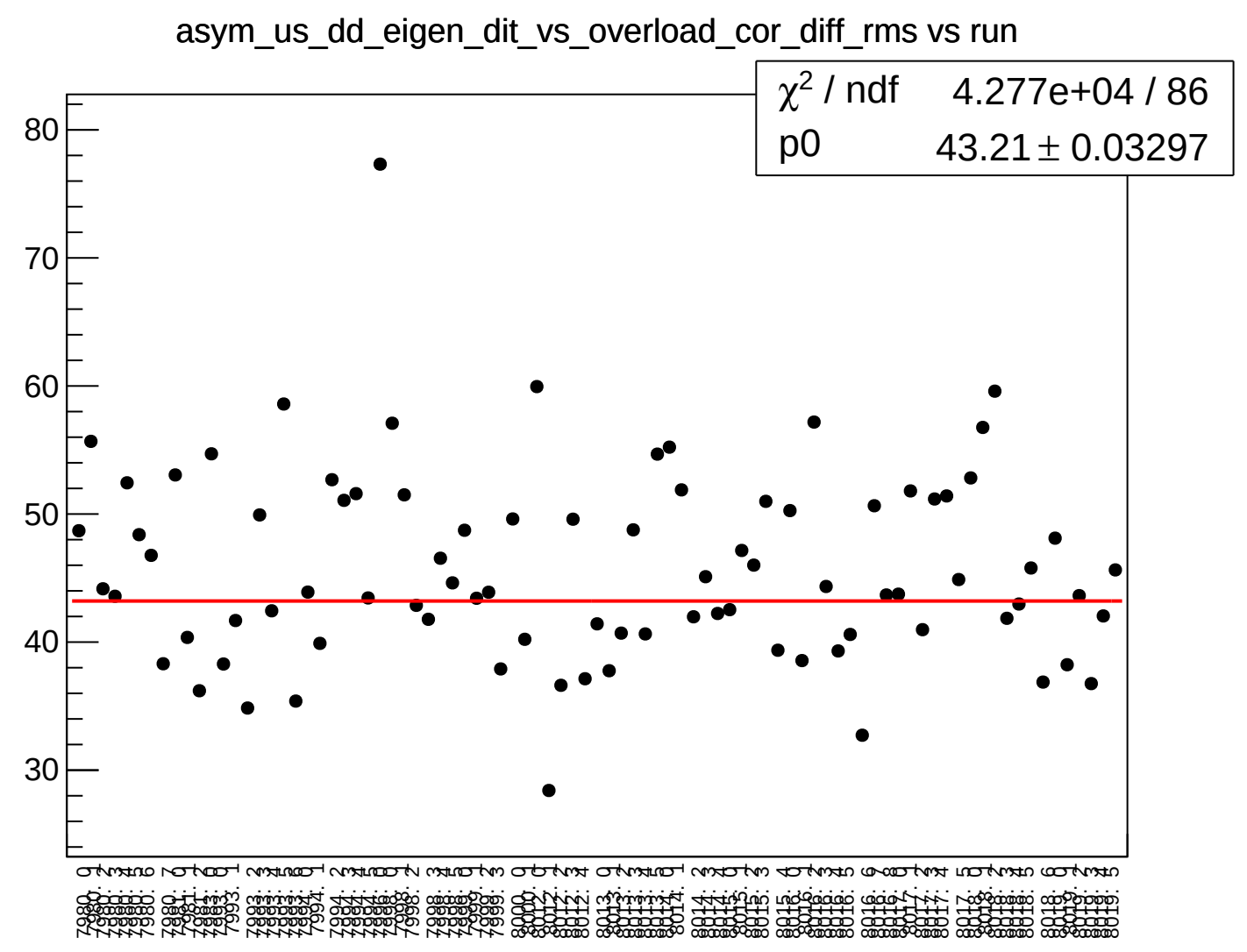

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.71 / 86
p0 0.006447 ± 0.03336
pull
Entries 87
Mean −27.39
Std Dev 0

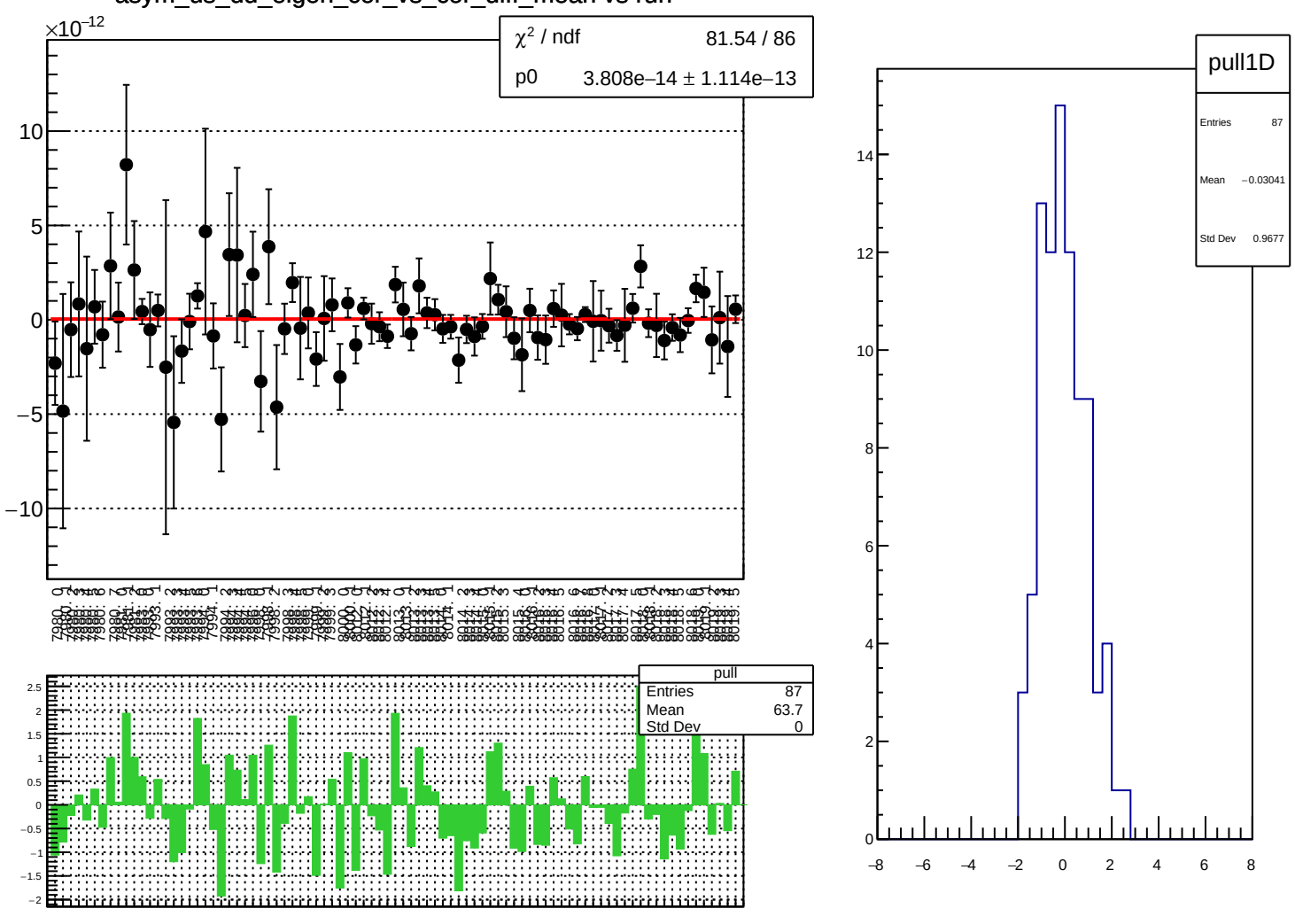

pull1D
Entries 87
Mean −0.02255
Std Dev 0.9448

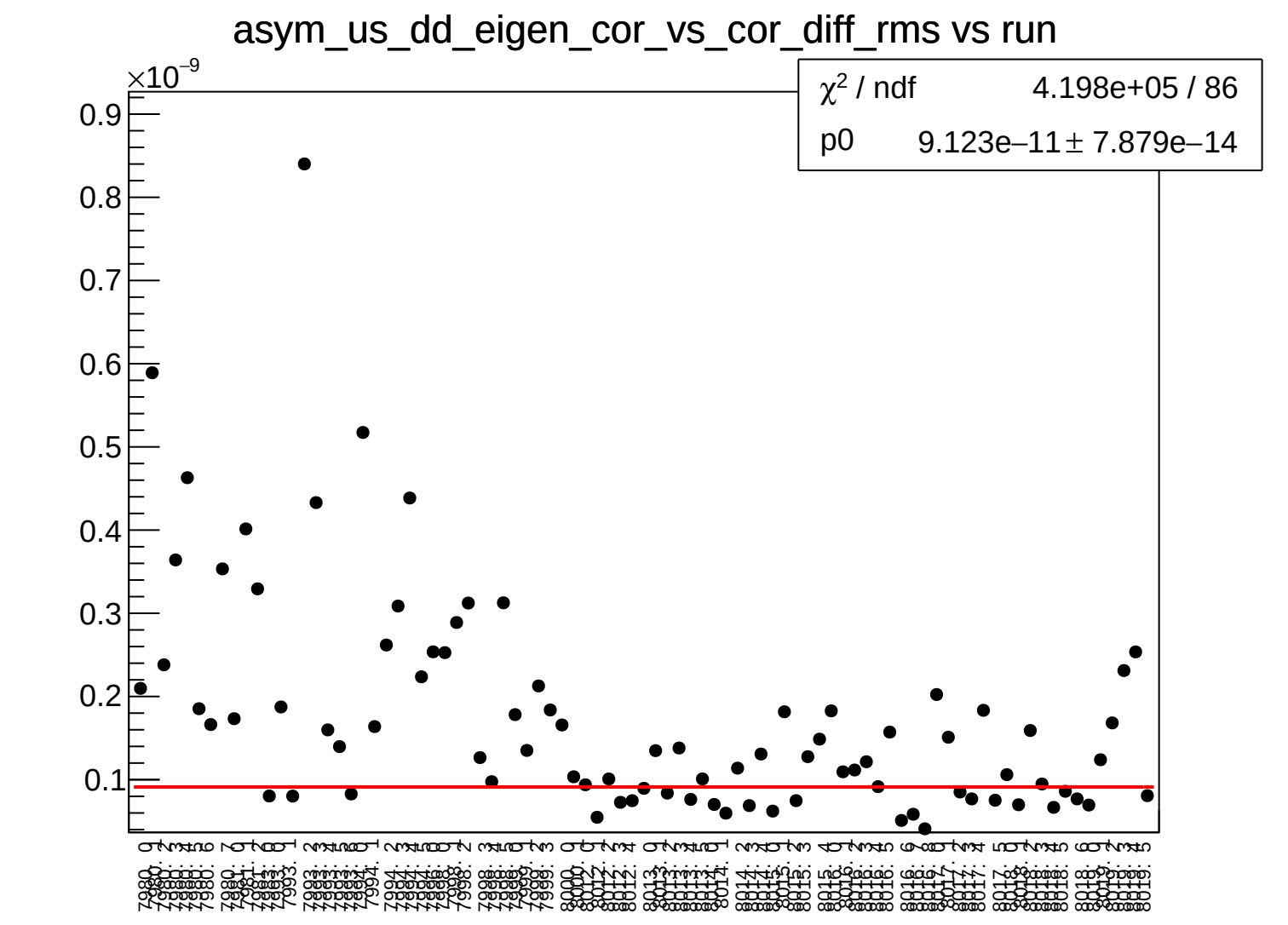

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.008e+05 / 86
p0 30.39 ± 0.02359
70
60
50
40
30
20
10

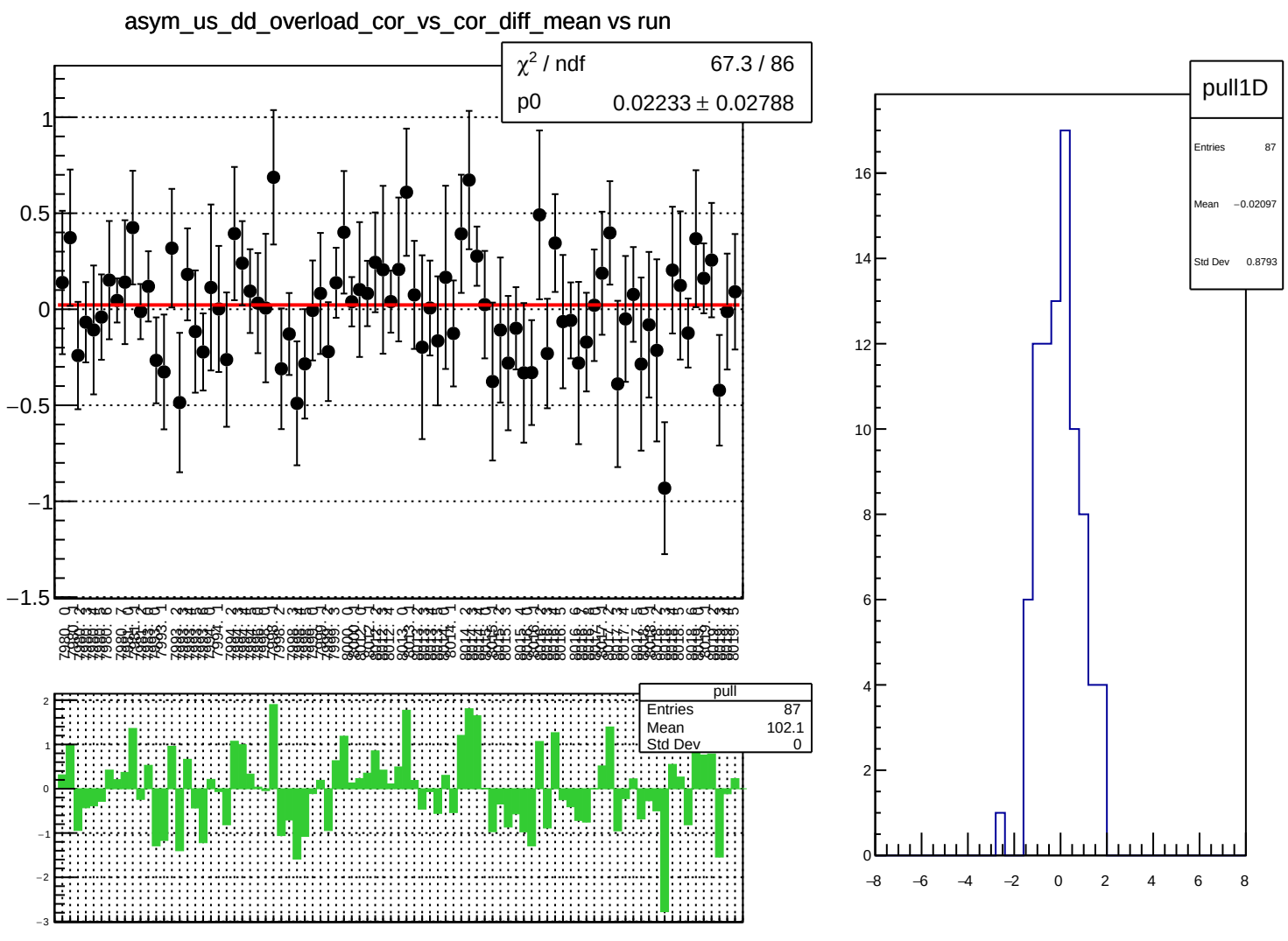

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 82.54 / 86
p0 −0.01326 ± 0.04662
pull
Entries 87
Mean −211.8
Std Dev 0

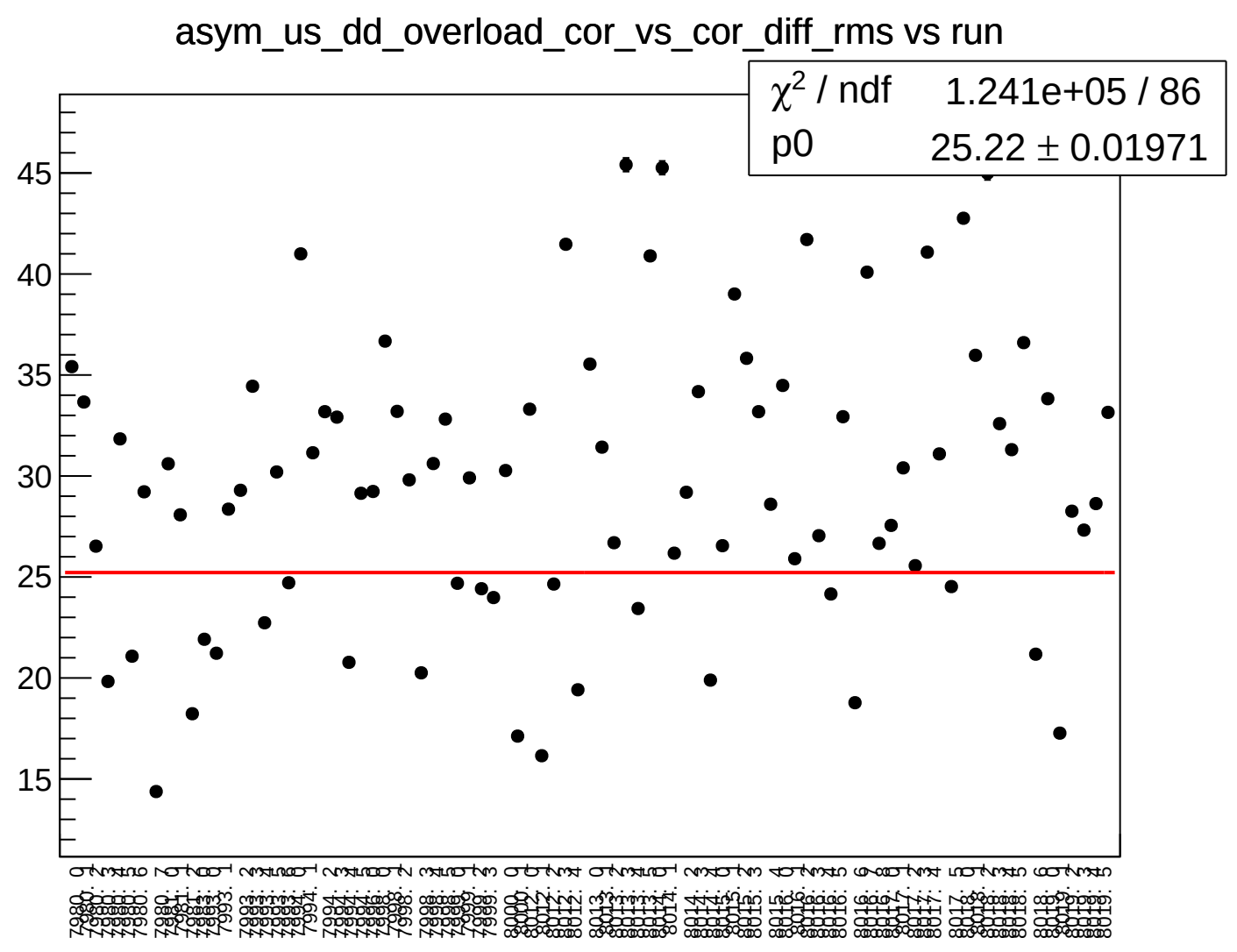

pull1D
Entries 87
Mean −0.01016
Std Dev 0.974

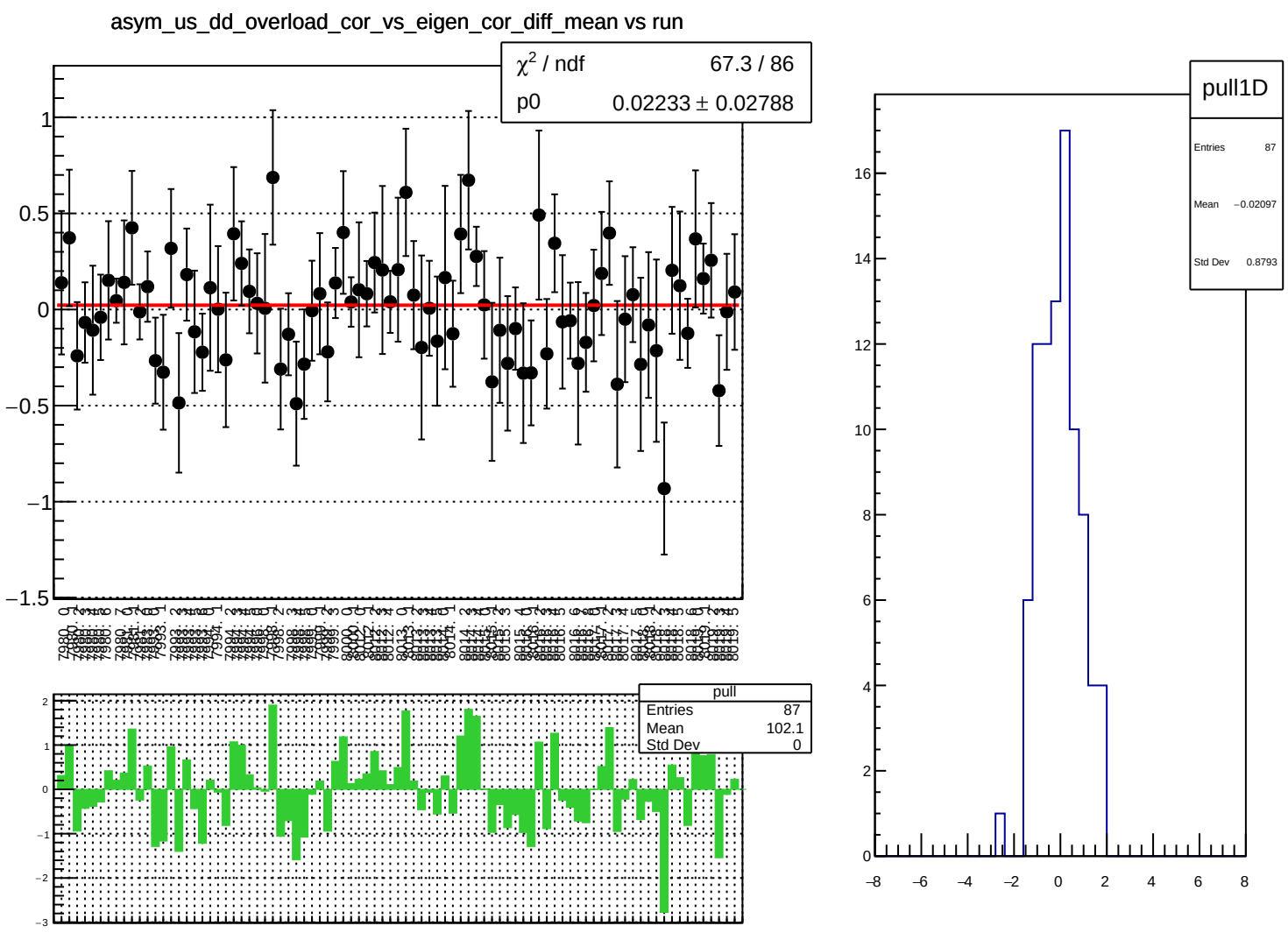

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.277e+04 / 86
p0 43.21 ± 0.03297
80
70
60
50
40
30

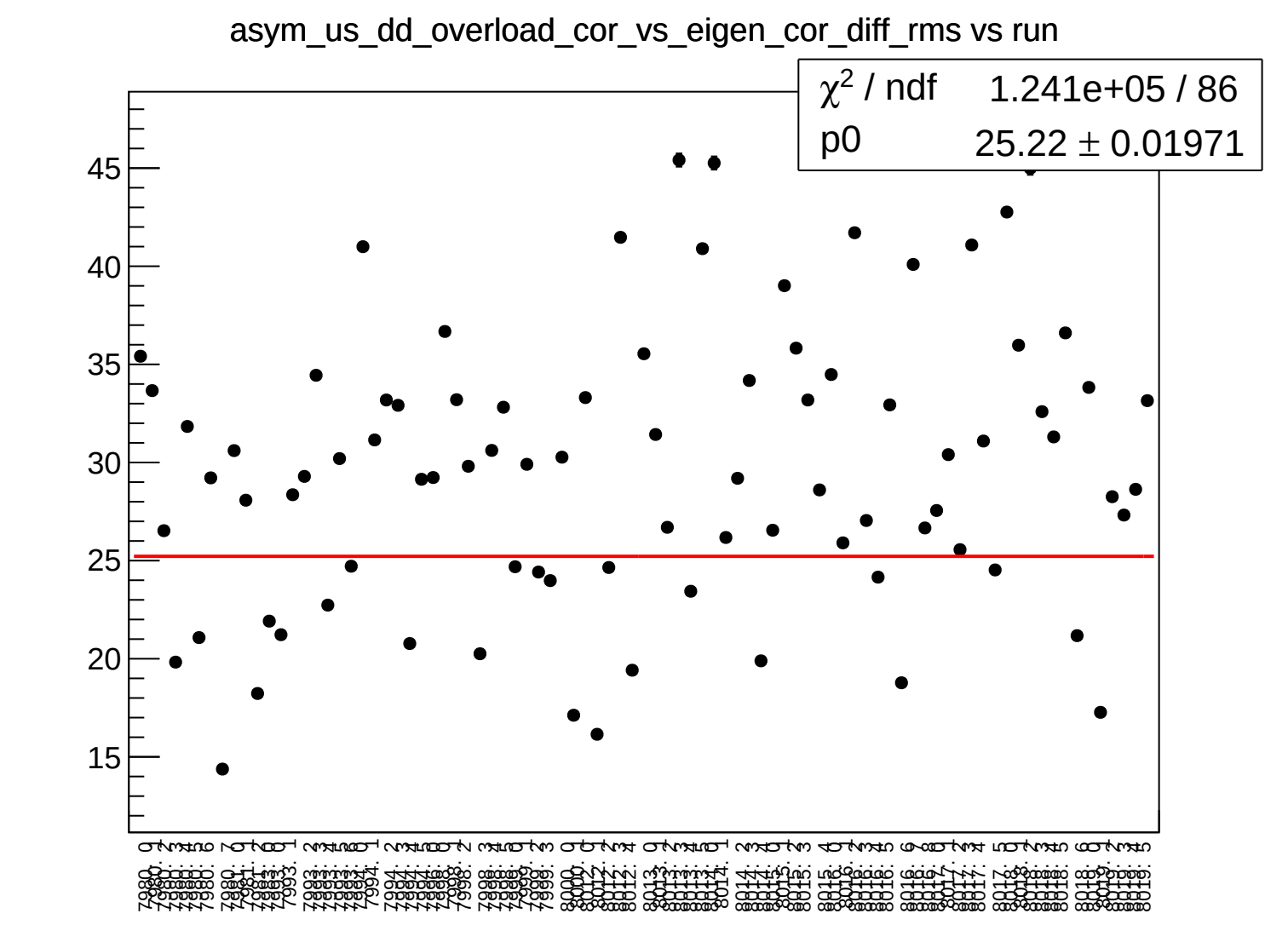

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.54 / 86
p0 3.808e−14 ± 1.114e−13
10
5
0
−5
−10
pull
Entries 87
Mean 63.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.03041
Std Dev 0.9677
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

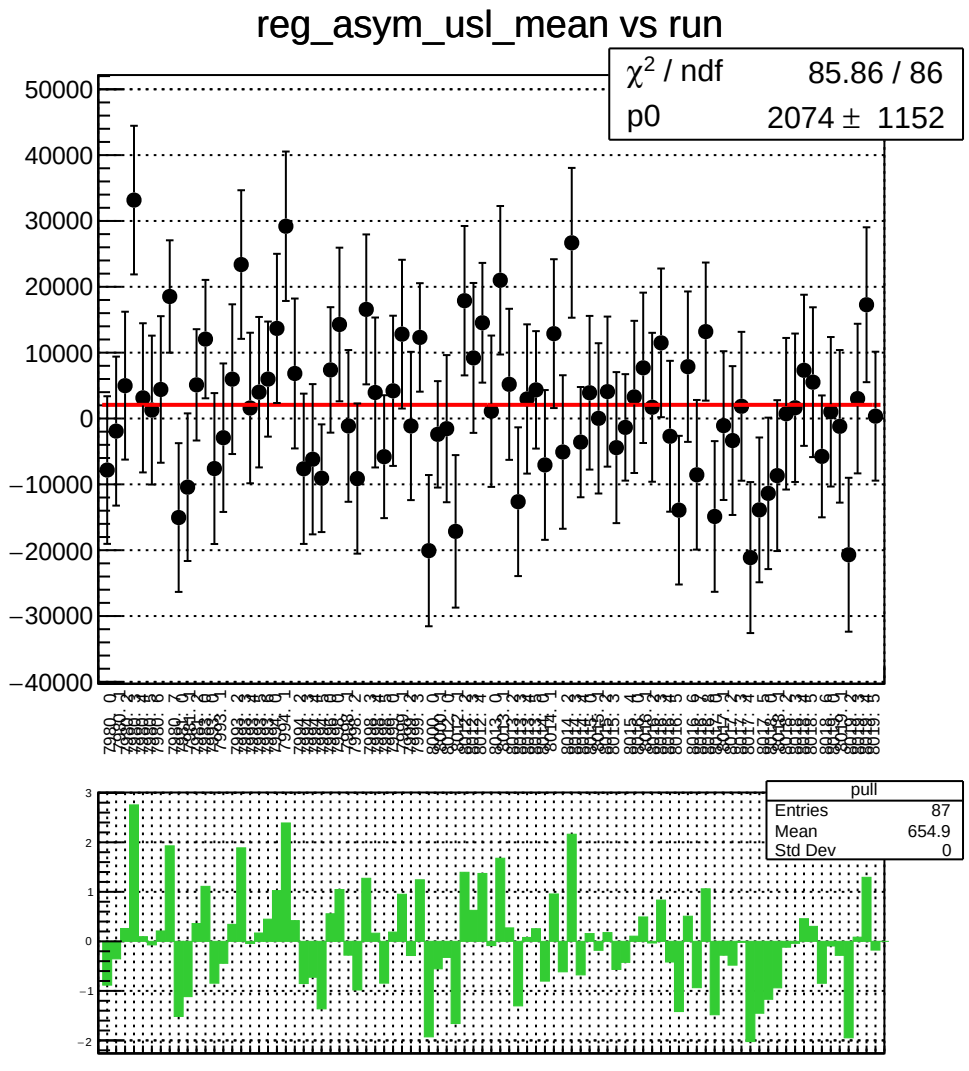

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.198e+05 / 86
p0 9.123e−11 ± 7.879e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

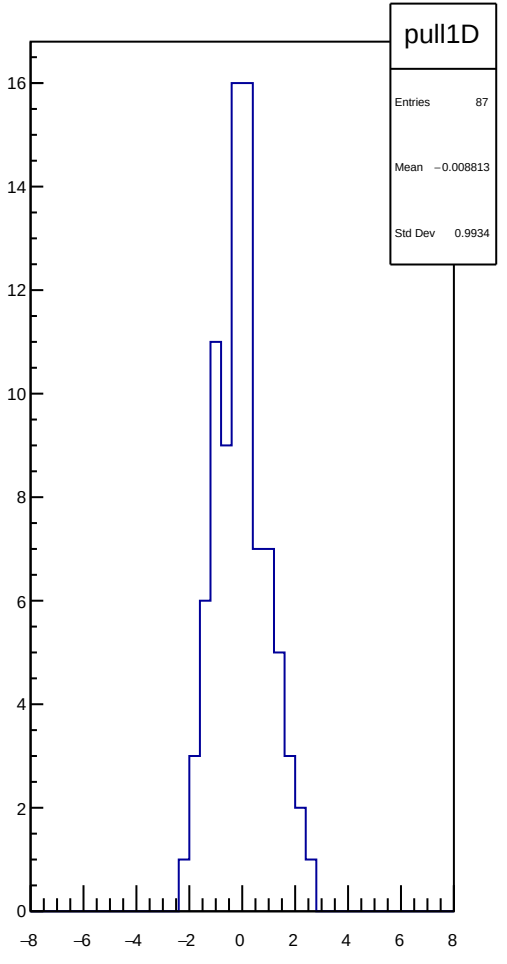

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 67.3 / 86
p0 0.02233 ± 0.02788
pull
Entries 87
Mean 102.1
Std Dev 0
pull1D
Entries 87
Mean −0.02097
Std Dev 0.8793

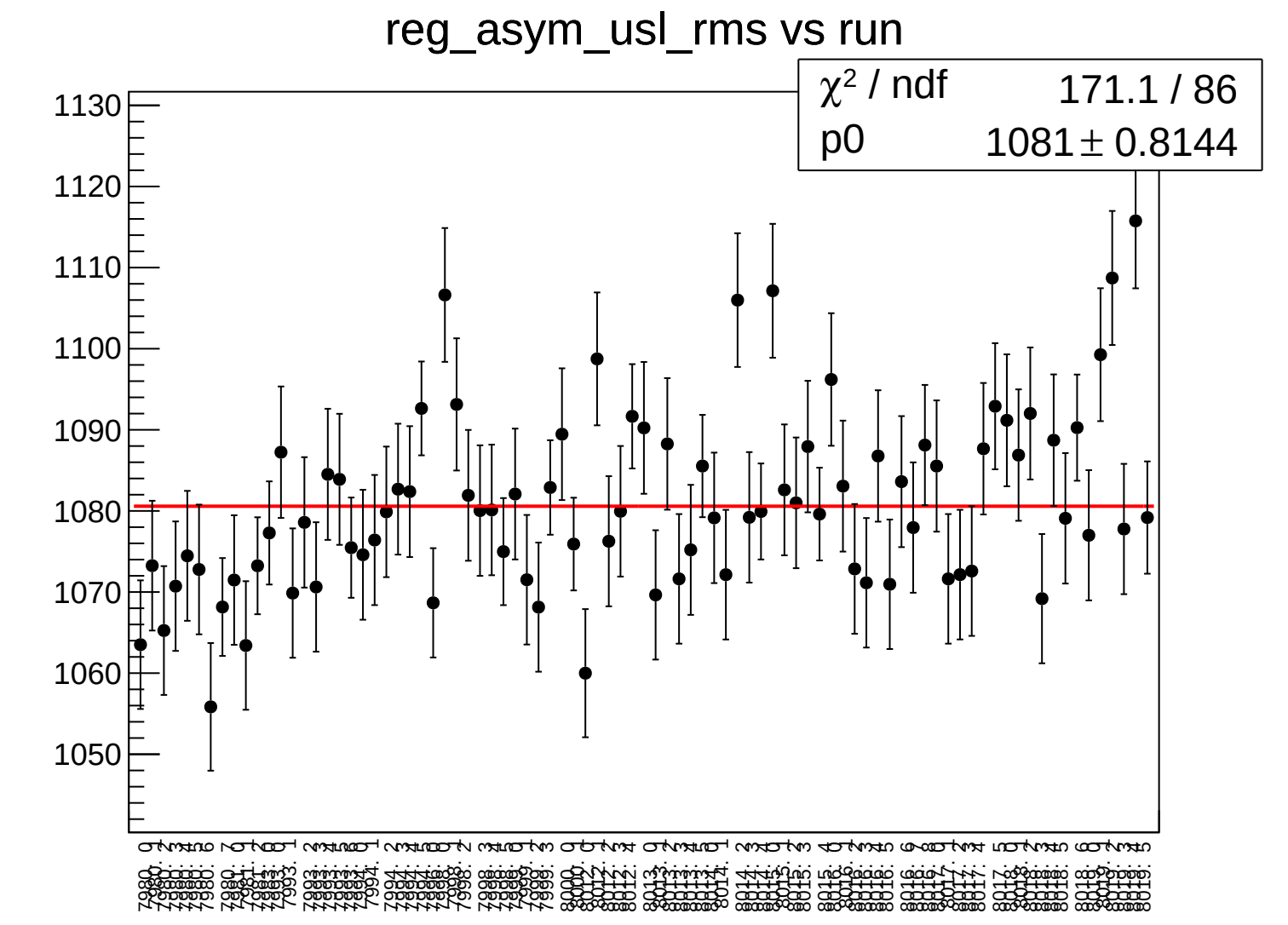

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.241e+05 / 86
p0 25.22 ± 0.01971
45
40
35
30
25
20
15

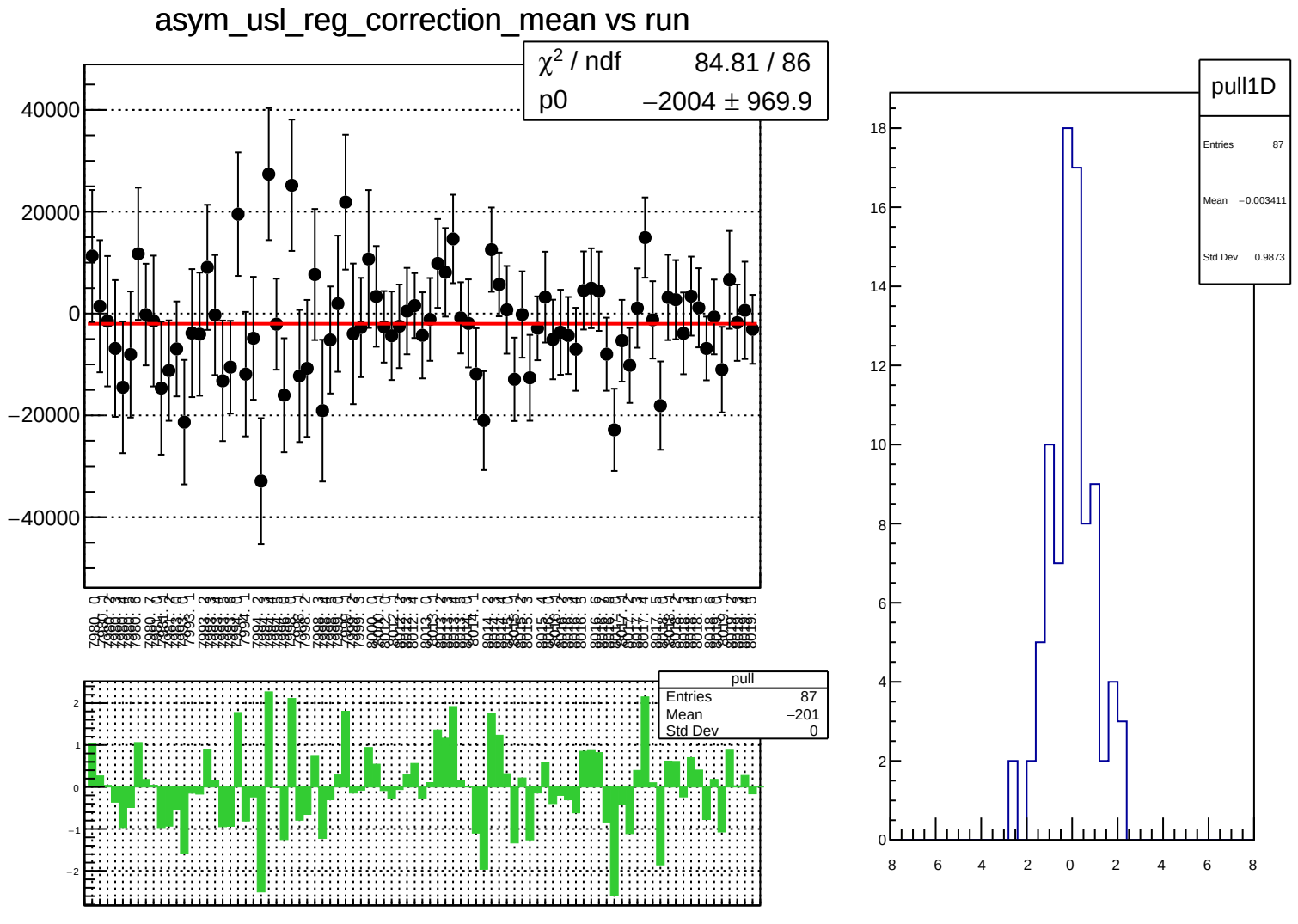

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.3 / 86
p0 0.02233 ± 0.02788
pull
Entries 87
Mean 102.1
Std Dev 0
pull1D
Entries 87
Mean −0.02097
Std Dev 0.8793

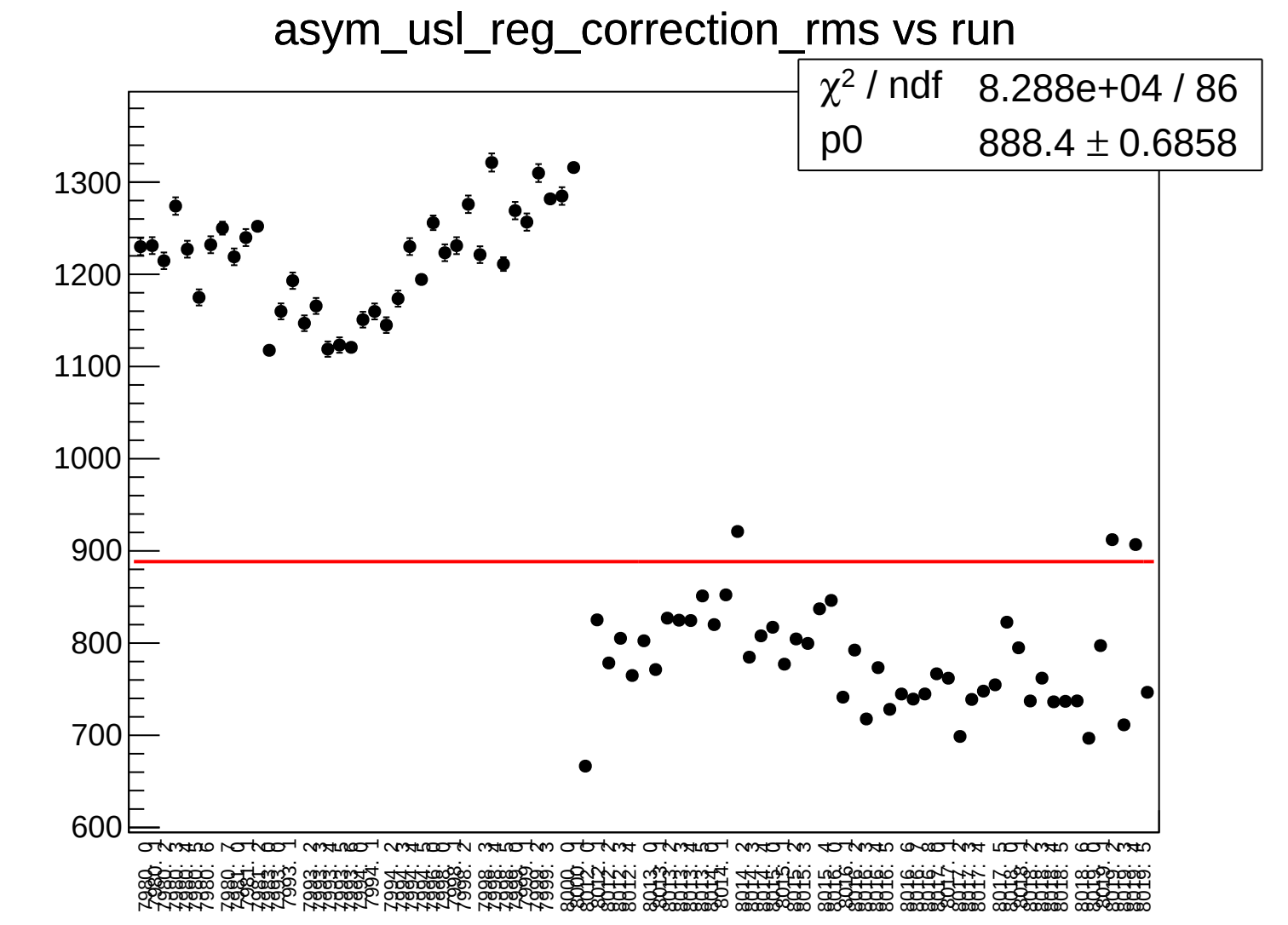

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.241e+05 / 86
p0 25.22 ± 0.01971
45
40
35
30
25
20
15

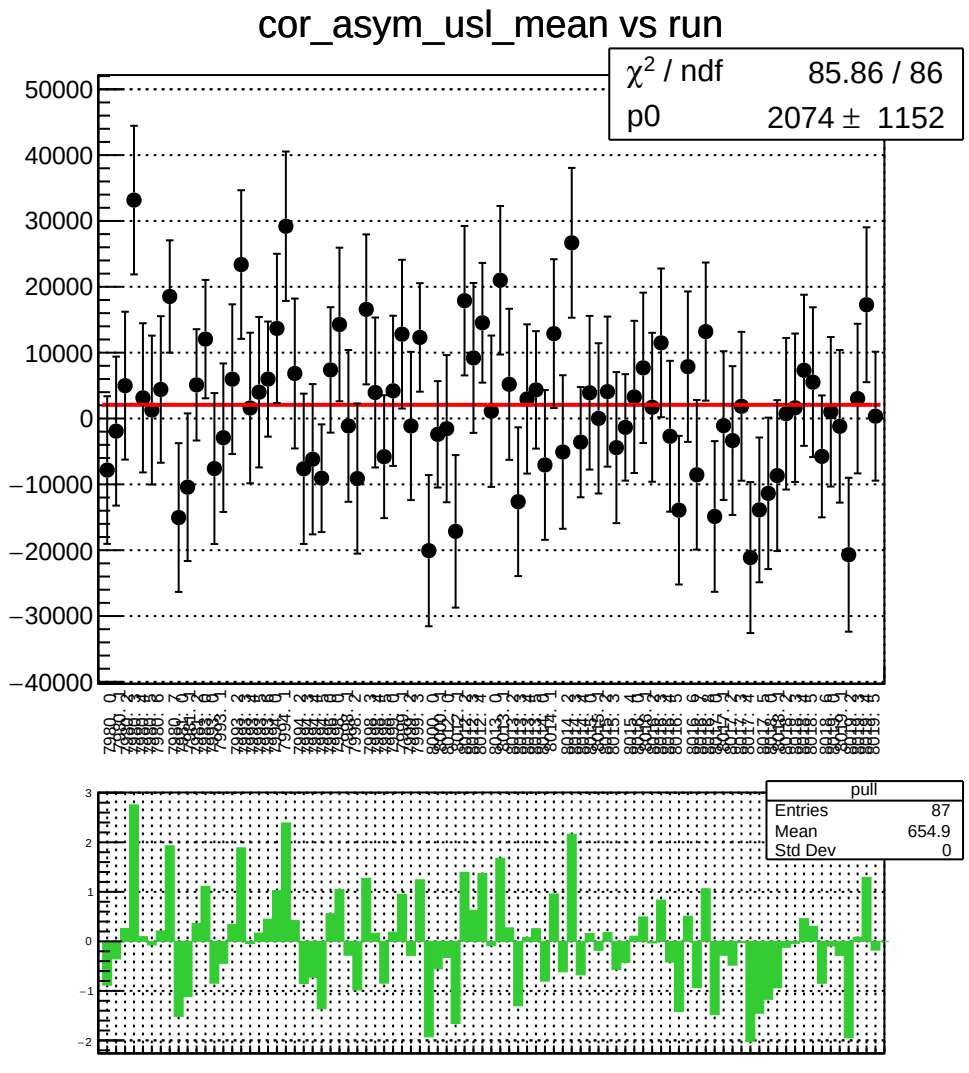

reg_asym_usl_mean vs run
χ² / ndf 85.86 / 86
p0 2074 ± 1152
pull
Entries 87
Mean 654.9
Std Dev 0

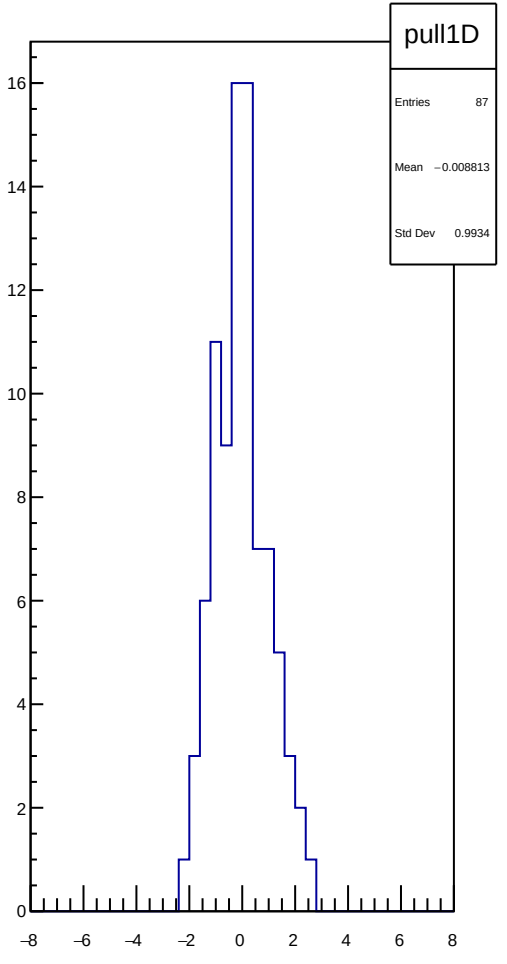

pull1D
Entries 87
Mean −0.008813
Std Dev 0.9934

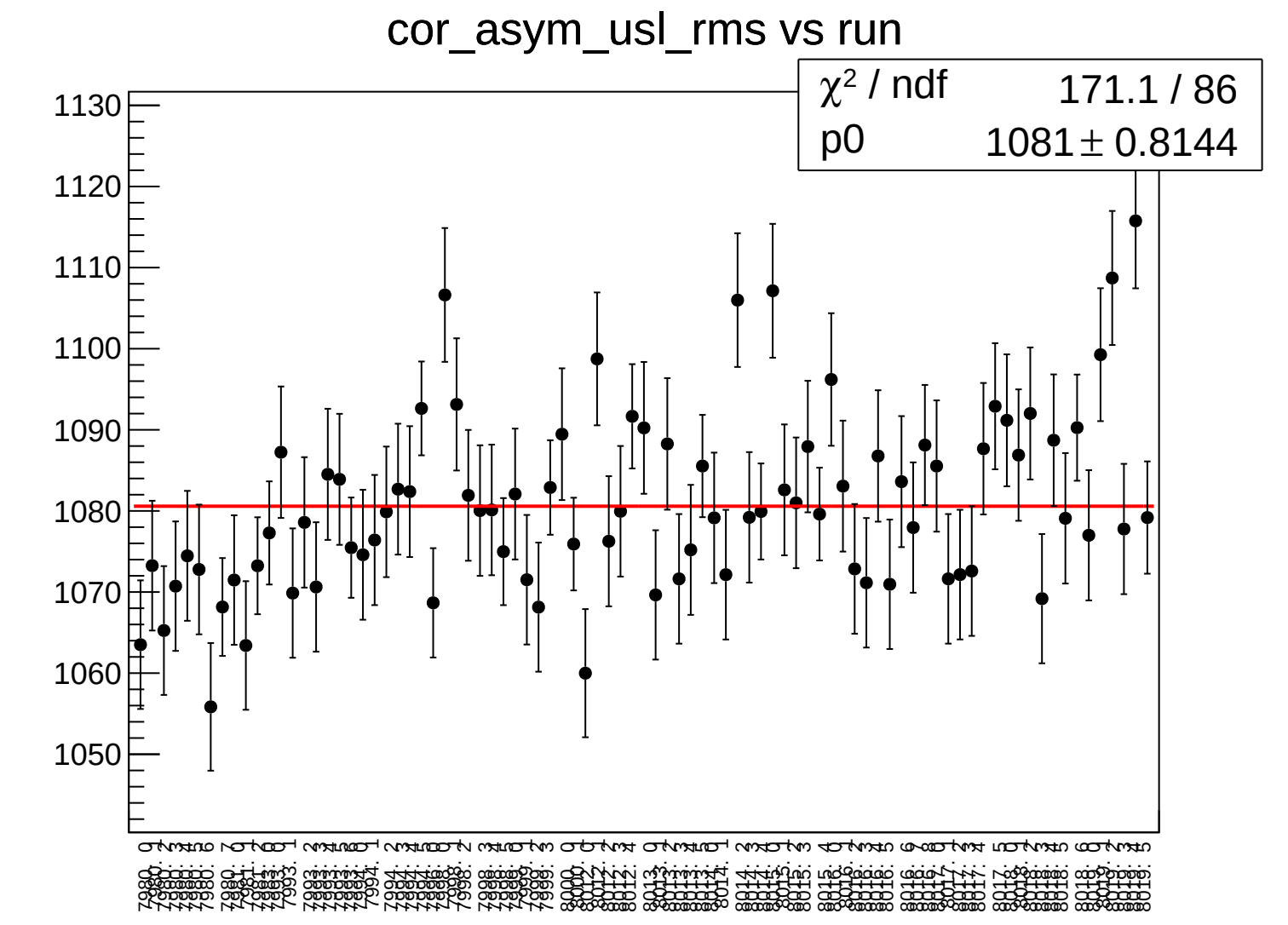

reg_asym_usl_rms vs run
χ² / ndf 171.1 / 86
p0 1081 ± 0.8144
1130
1120
1110
1100
1090
1080
1070
1060
1050

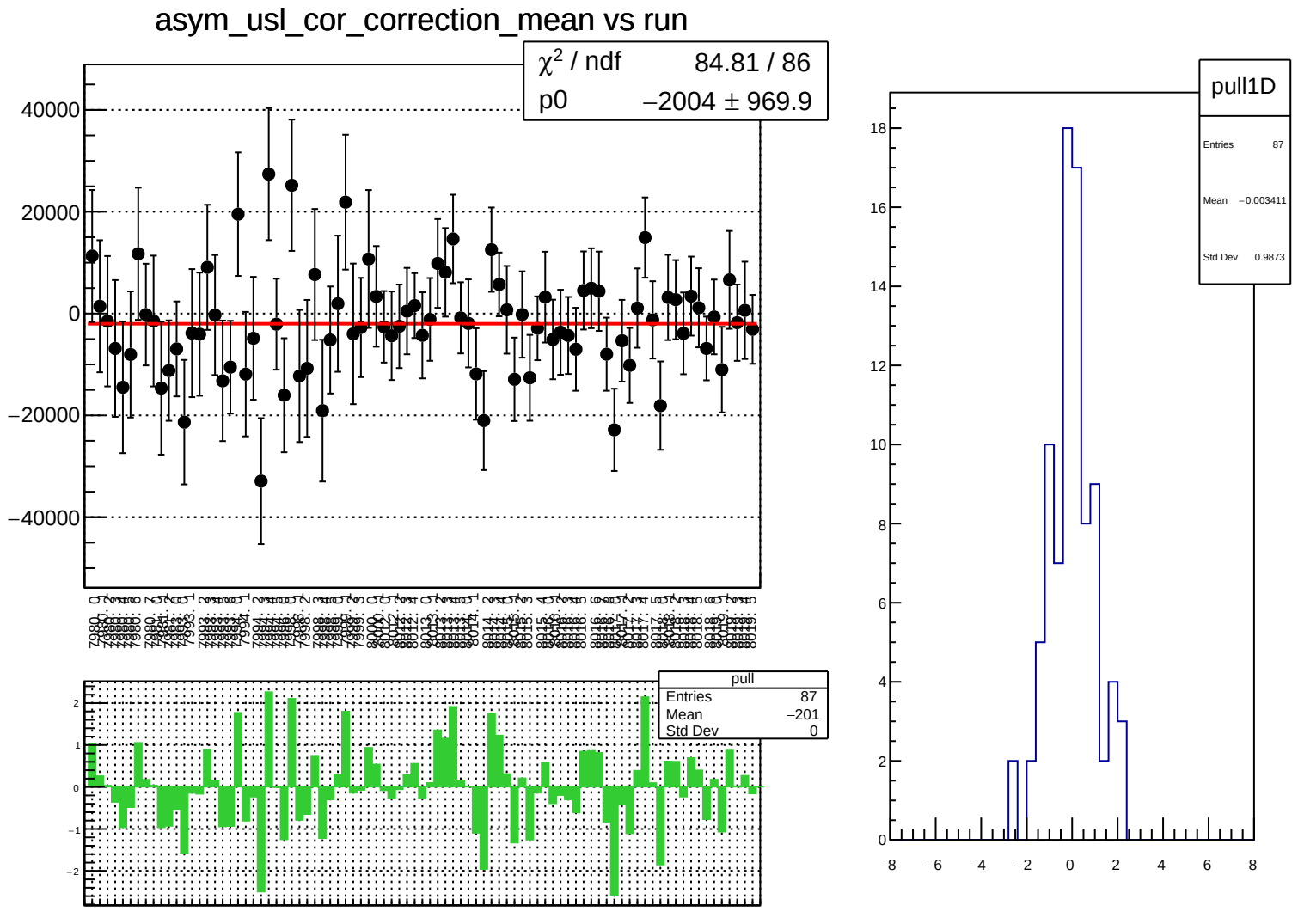

asym_usl_reg_correction_mean vs run
χ² / ndf 84.81 / 86
p0 −2004 ± 969.9
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −201
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.003411
Std Dev 0.9873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

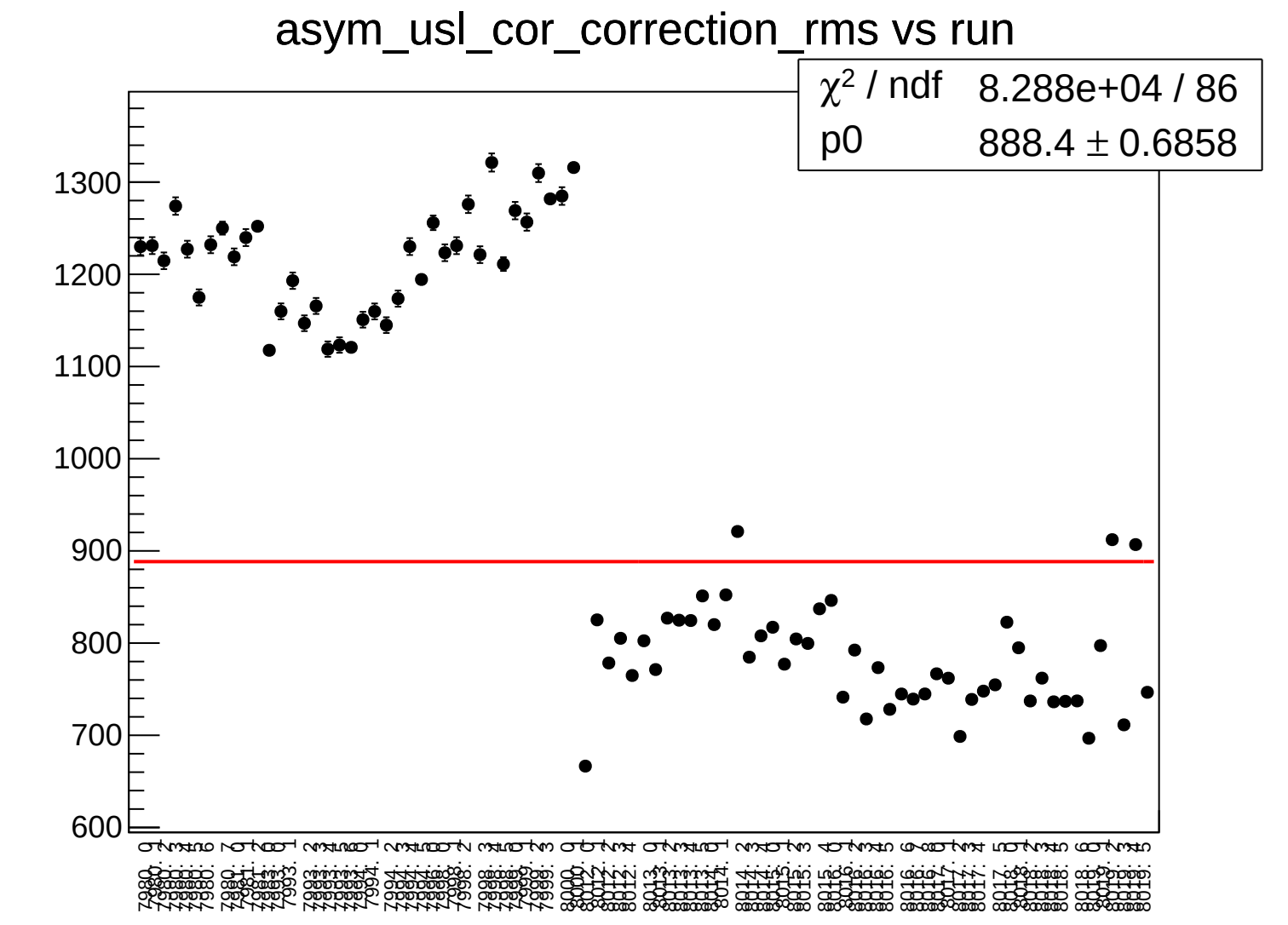

asym_usl_reg_correction_rms vs run
χ² / ndf 8.288e+04 / 86
p0 888.4 ± 0.6858
1300
1200
1100
1000
900
800
700
600

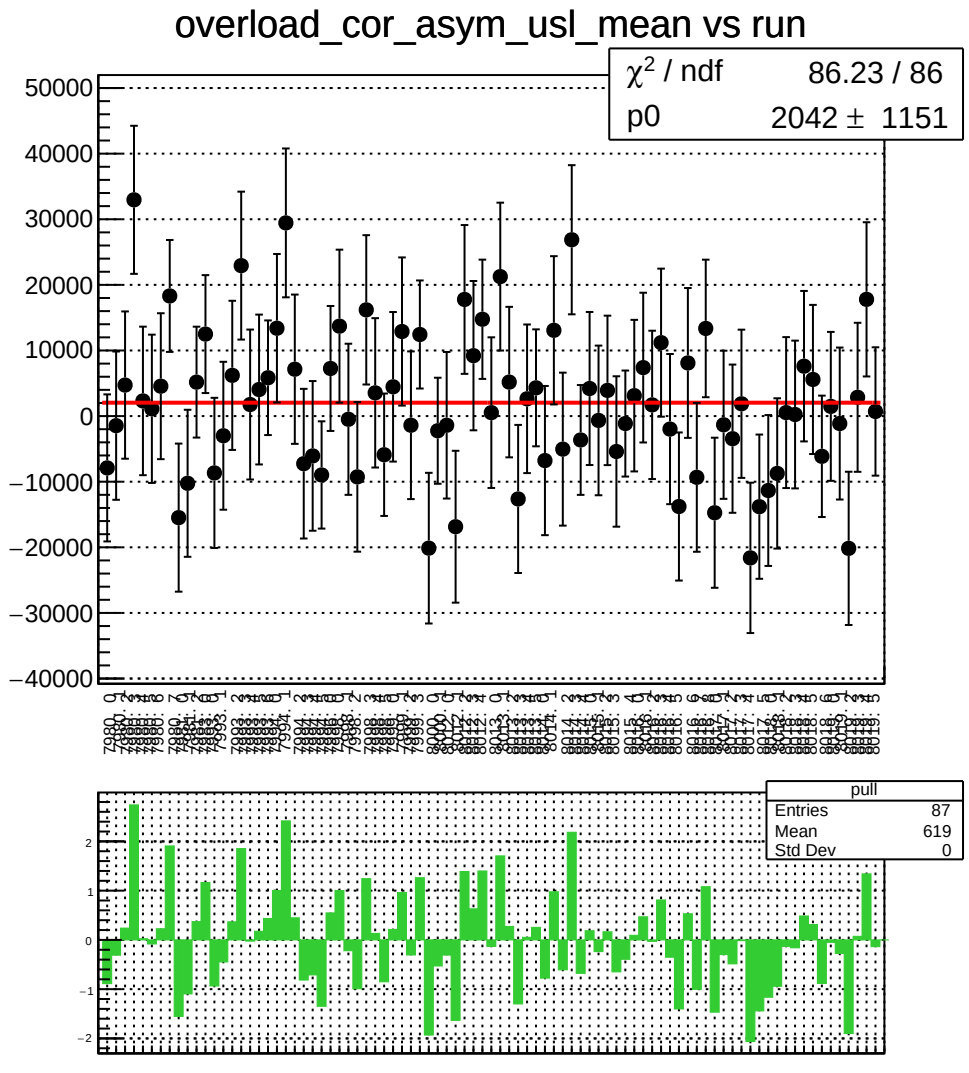

cor_asym_usl_mean vs run
χ² / ndf 85.86 / 86
p0 2074 ± 1152
pull
Entries 87
Mean 654.9
Std Dev 0

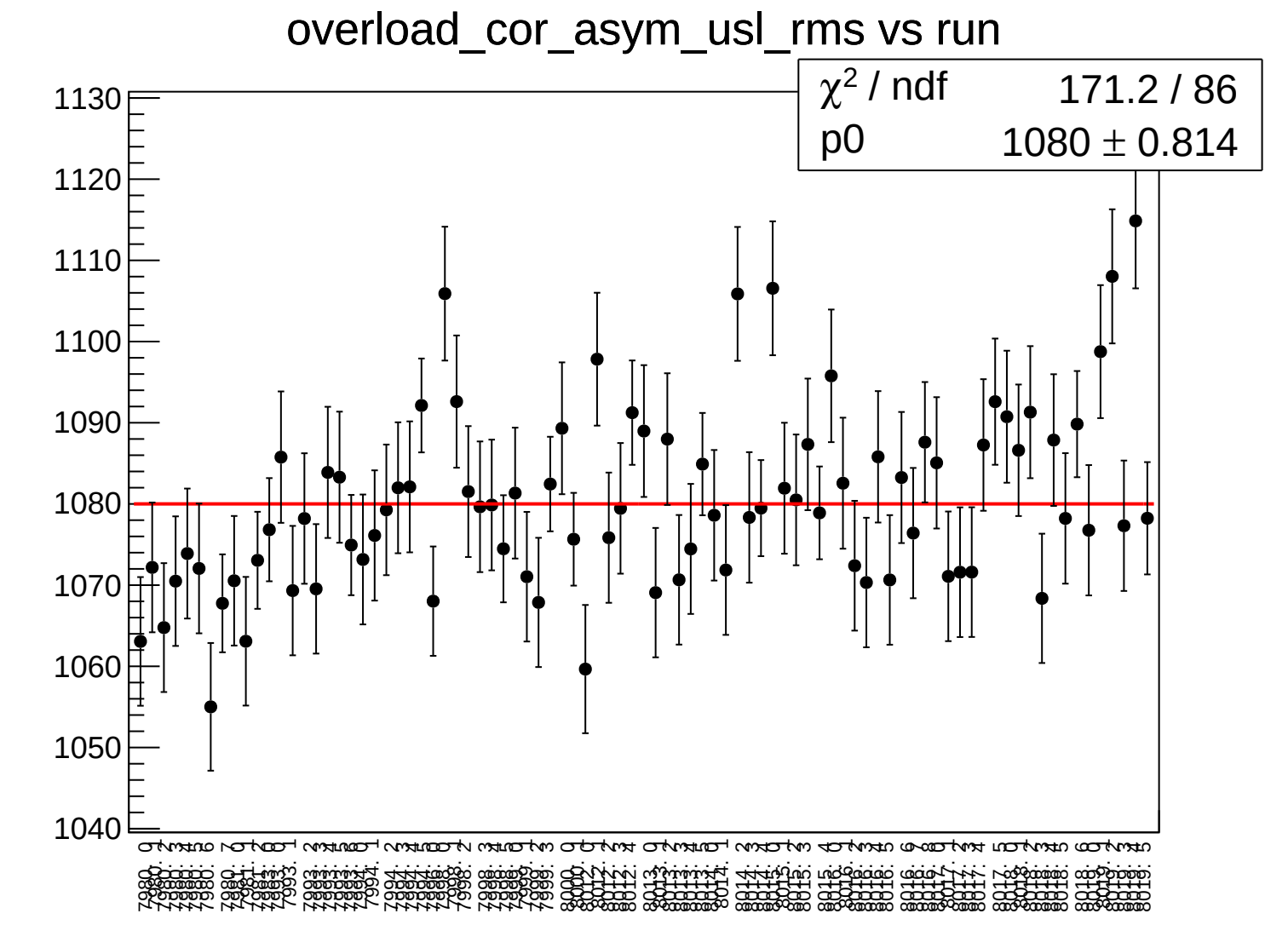

pull1D
Entries 87
Mean −0.008813
Std Dev 0.9934

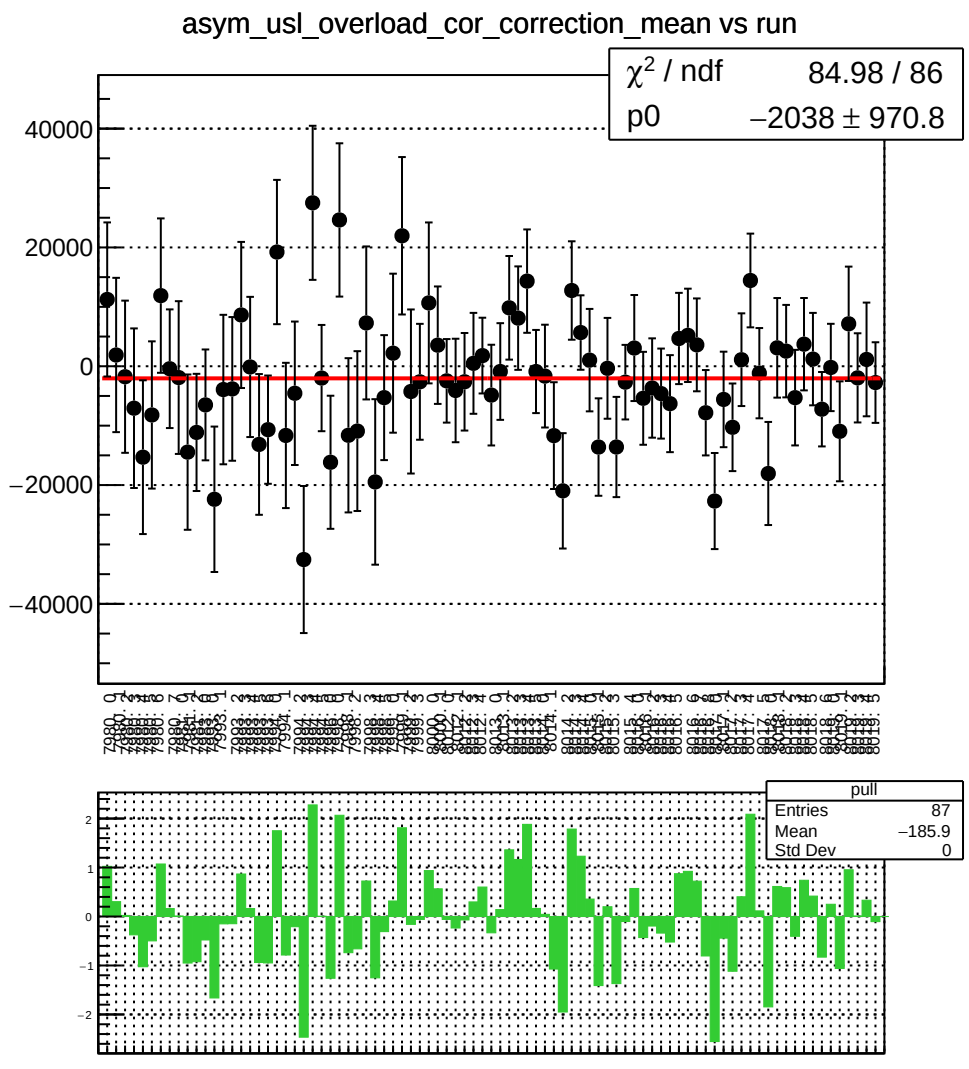

cor_asym_usl_rms vs run
χ² / ndf 171.1 / 86
p0 1081 ± 0.8144
1130
1120
1110
1100
1090
1080
1070
1060
1050

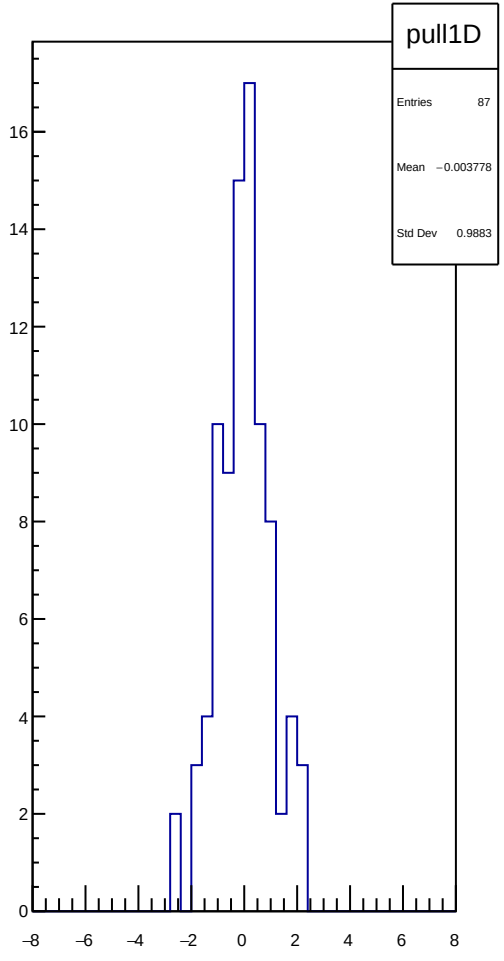

asym_usl_cor_correction_mean vs run
χ² / ndf 84.81 / 86
p0 −2004 ± 969.9
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −201
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.003411
Std Dev 0.9873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

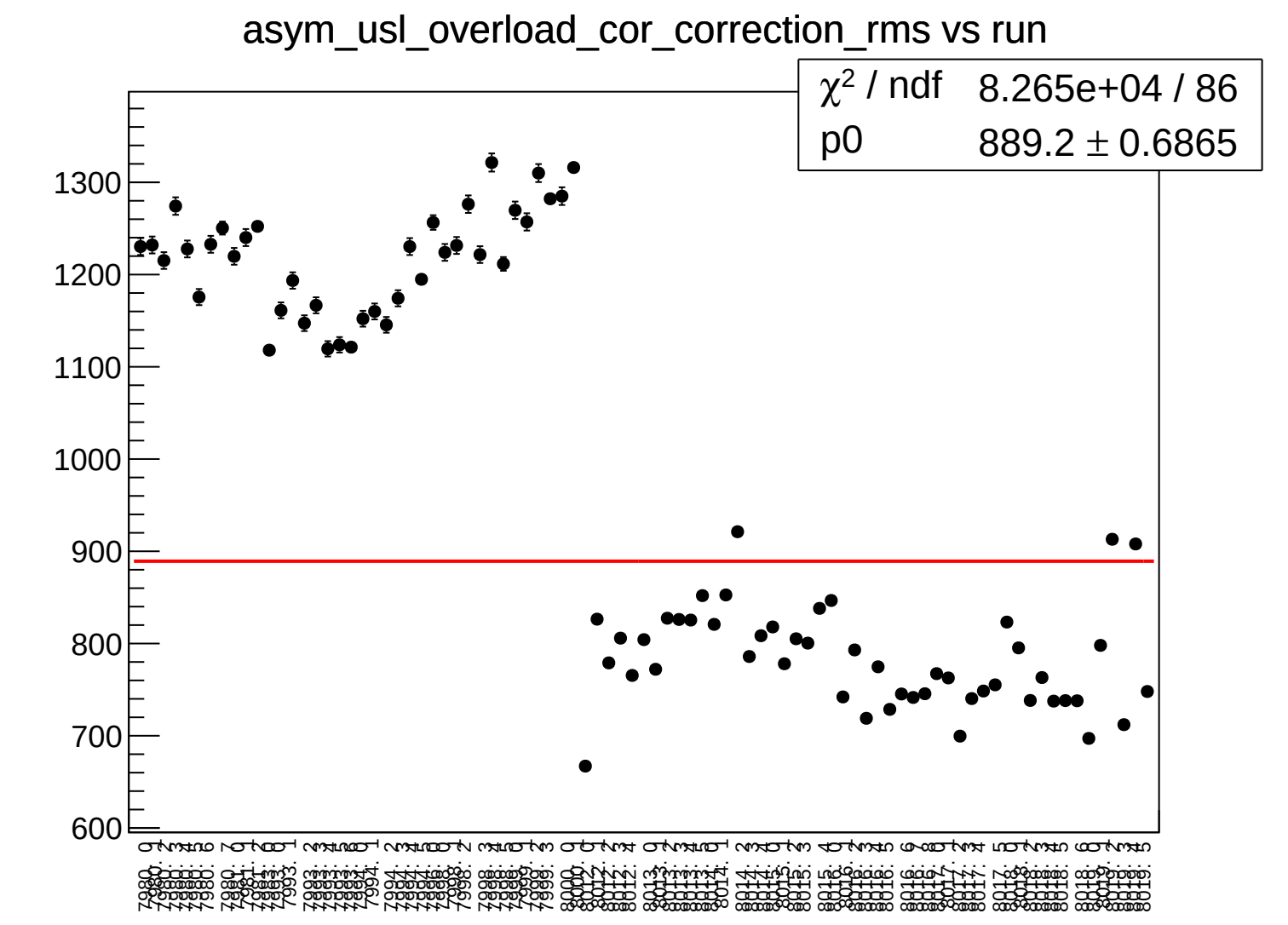

asym_usl_cor_correction_rms vs run
χ² / ndf 8.288e+04 / 86
p0 888.4 ± 0.6858
1300
1200
1100
1000
900
800
700
600

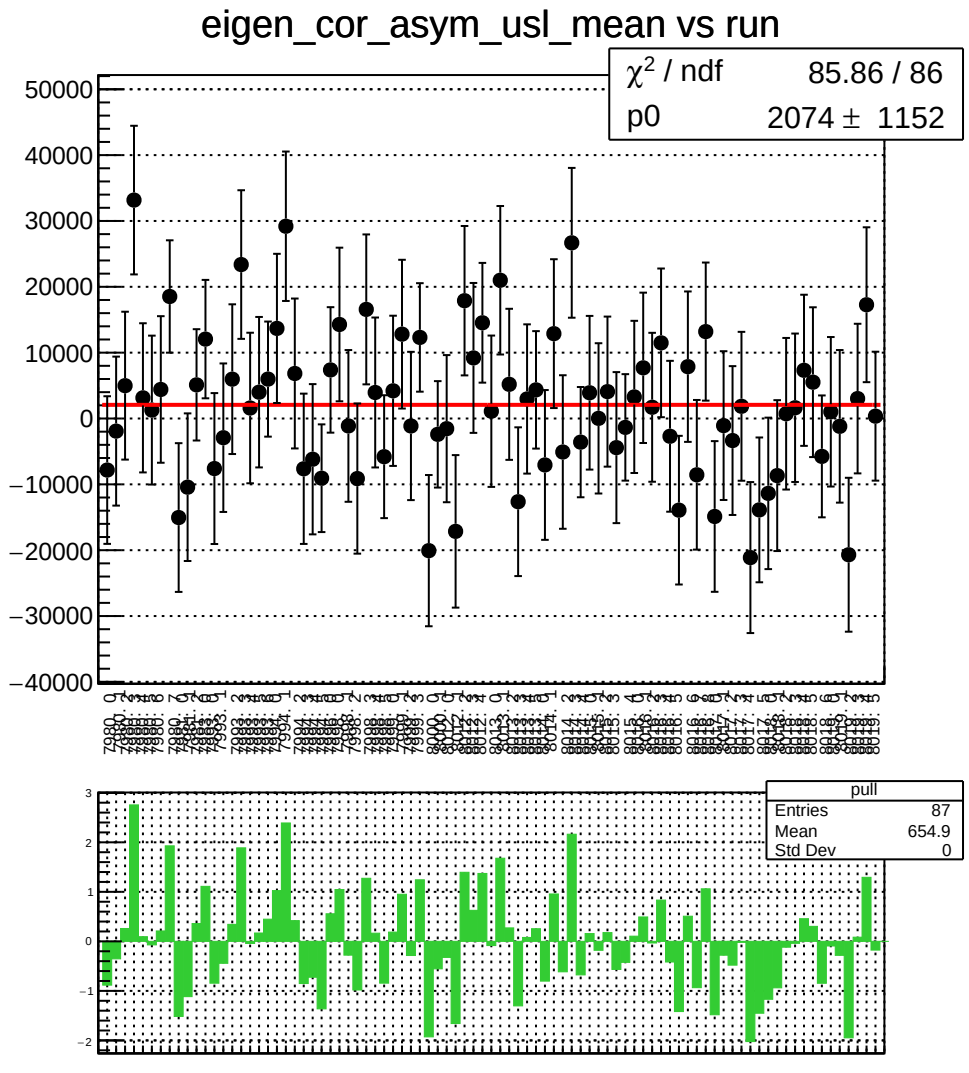

overload_cor_asym_usl_mean vs run
χ² / ndf 86.23 / 86
p0 2042 ± 1151
pull
Entries 87
Mean 619
Std Dev 0
pull1D
Entries 87
Mean −0.00929
Std Dev 0.9955

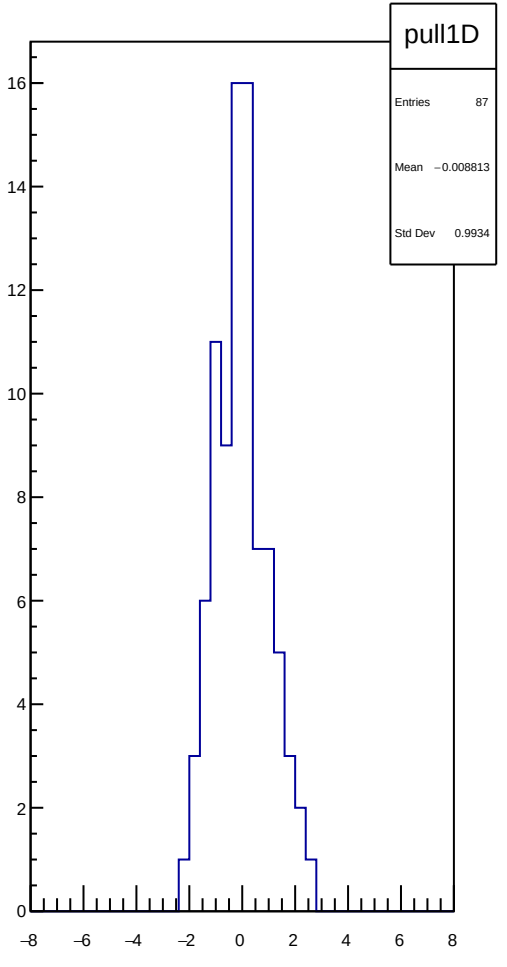

overload_cor_asym_usl_rms vs run
χ² / ndf 171.2 / 86
p0 1080 ± 0.814
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040

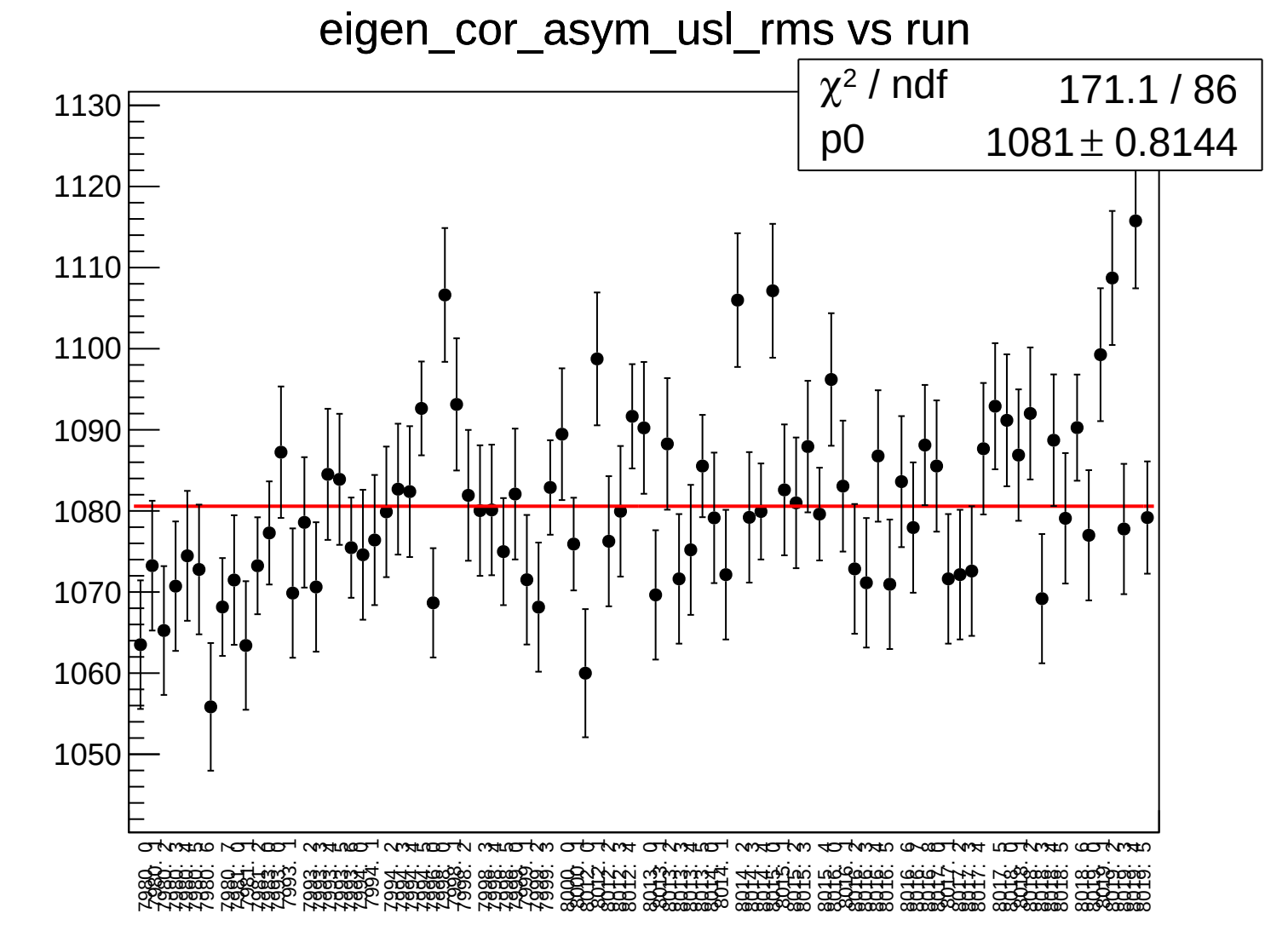

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 84.98 / 86
p0 −2038 ± 970.8
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −185.9
Std Dev 0
2
1
0
−1
−2

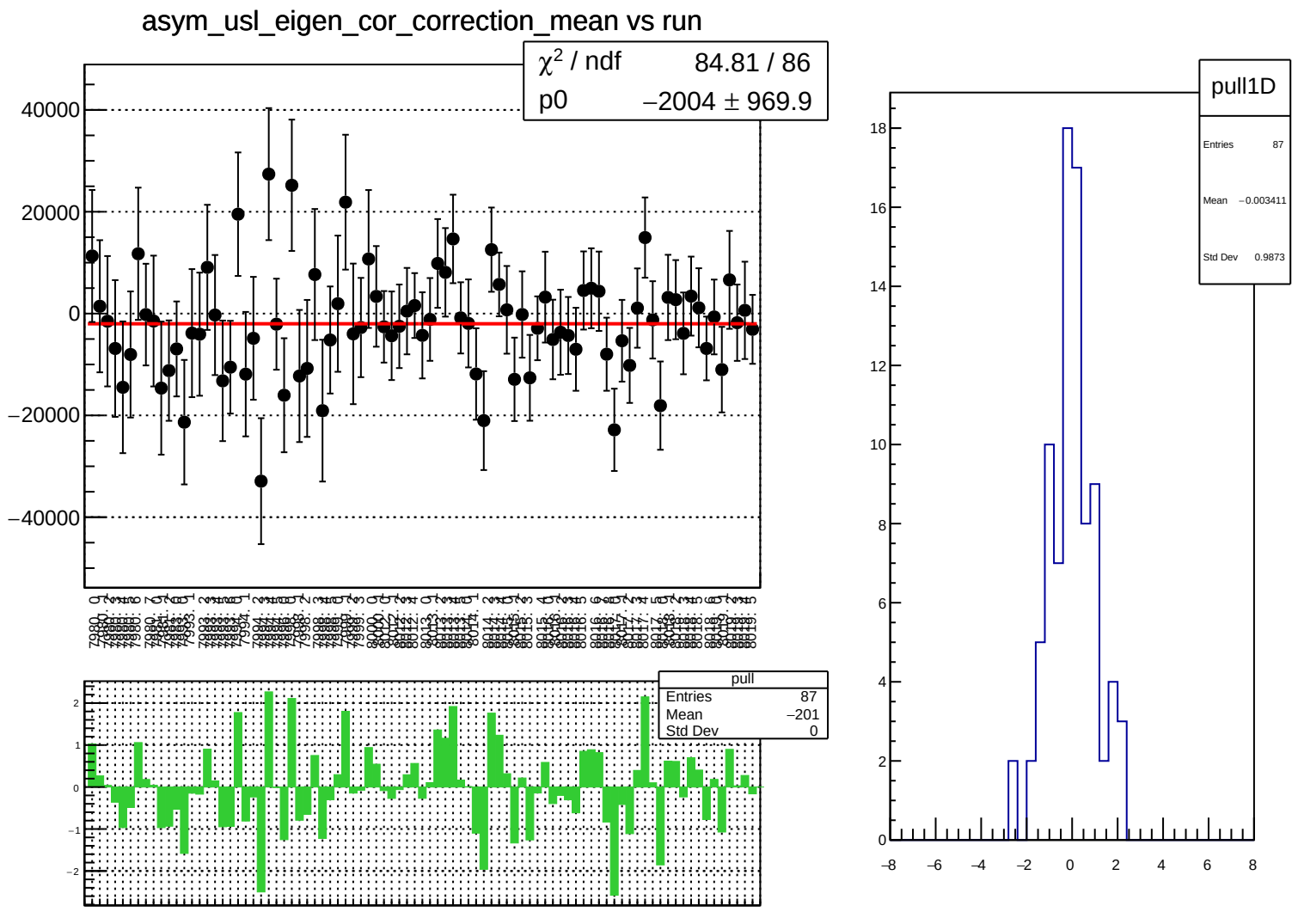

pull1D
Entries 87
Mean −0.003778
Std Dev 0.9883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

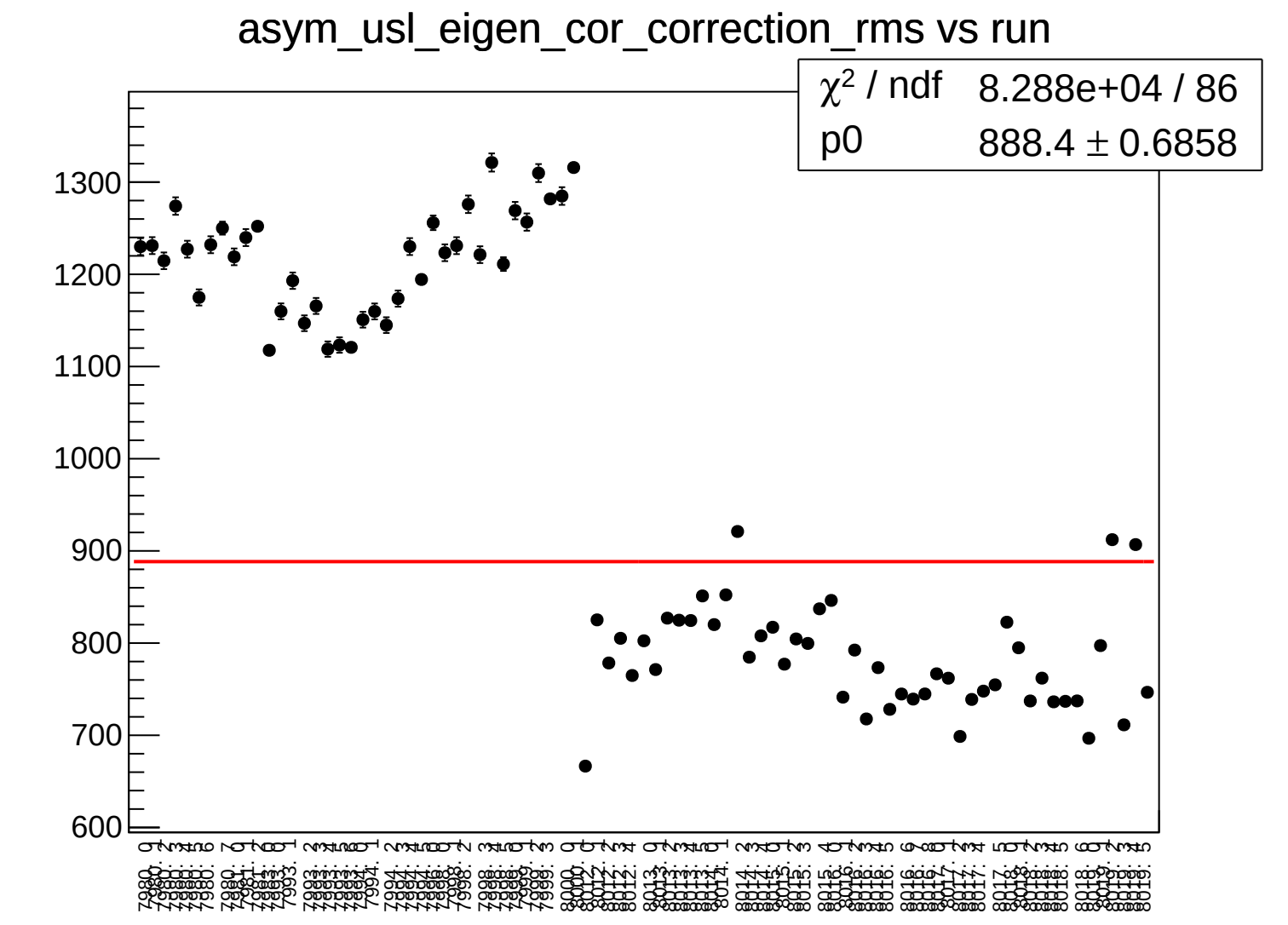

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 8.265e+04 / 86
p0 889.2 ± 0.6865
1300
1200
1100
1000
900
800
700
600

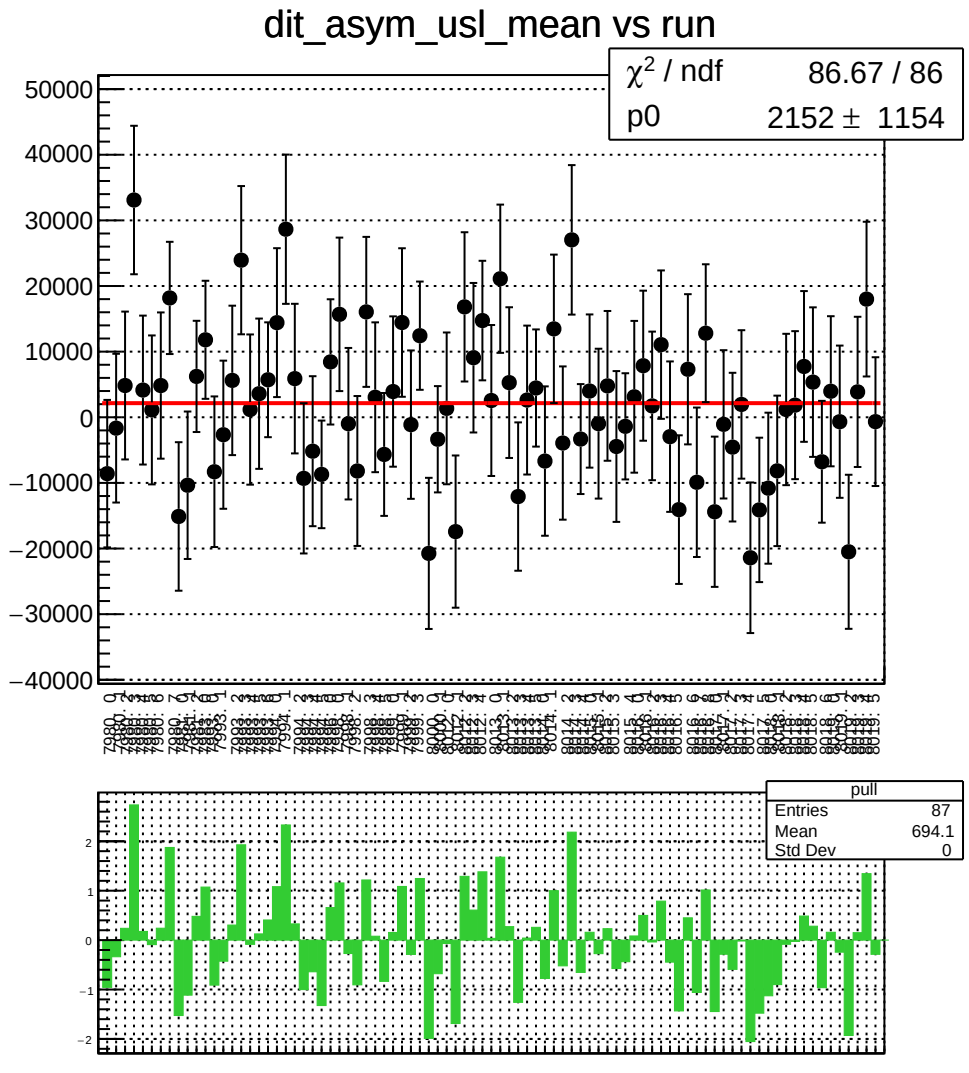

eigen_cor_asym_usl_mean vs run
χ² / ndf 85.86 / 86
p0 2074 ± 1152
pull
Entries 87
Mean 654.9
Std Dev 0

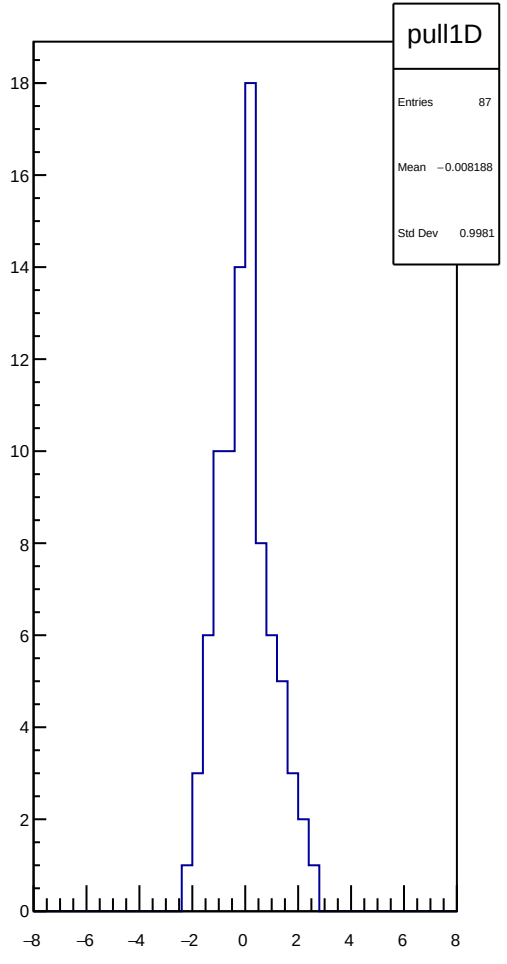

pull1D
Entries 87
Mean −0.008813
Std Dev 0.9934

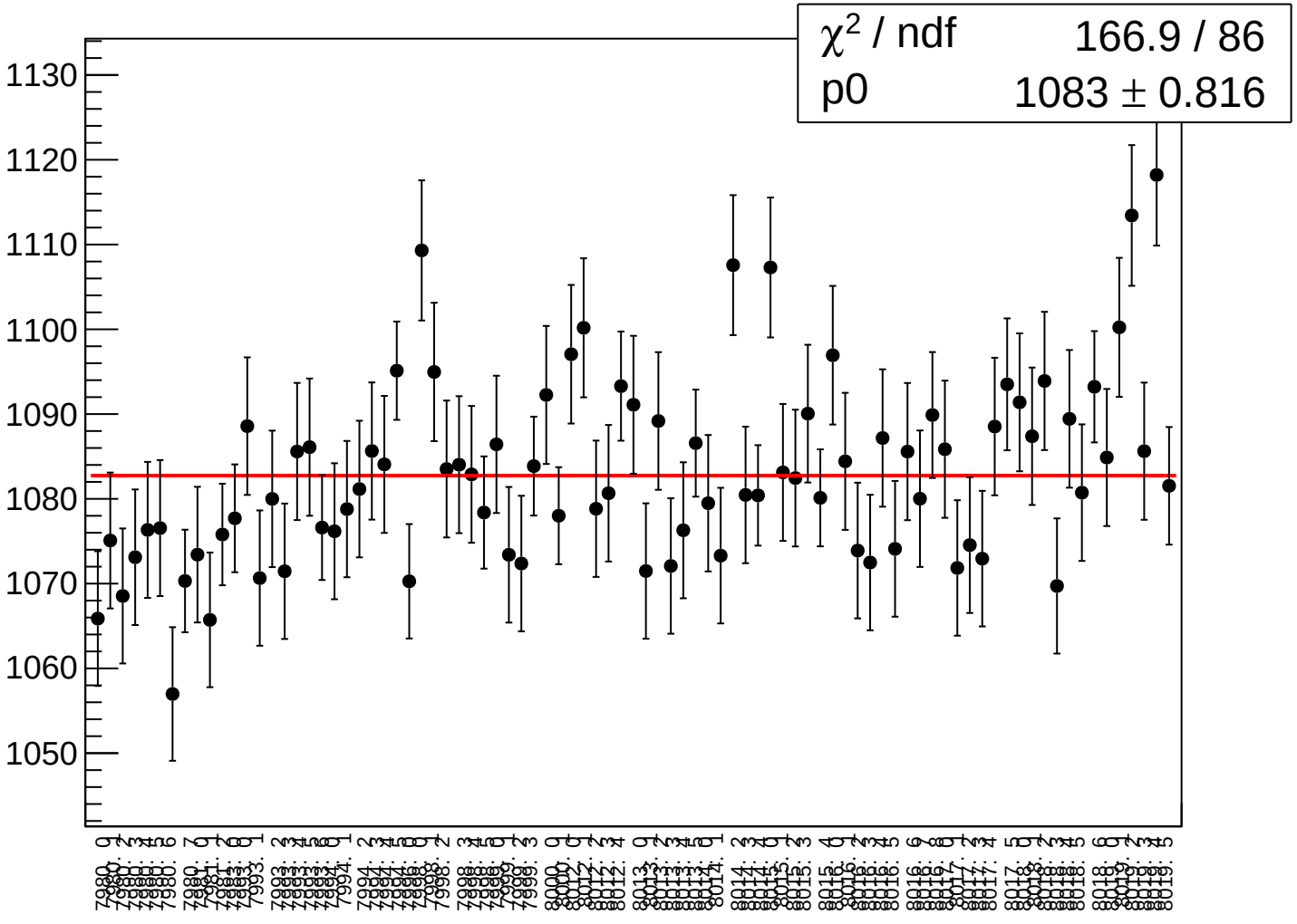

eigen_cor_asym_usl_rms vs run
χ² / ndf 171.1 / 86
p0 1081 ± 0.8144
1130
1120
1110
1100
1090
1080
1070
1060
1050

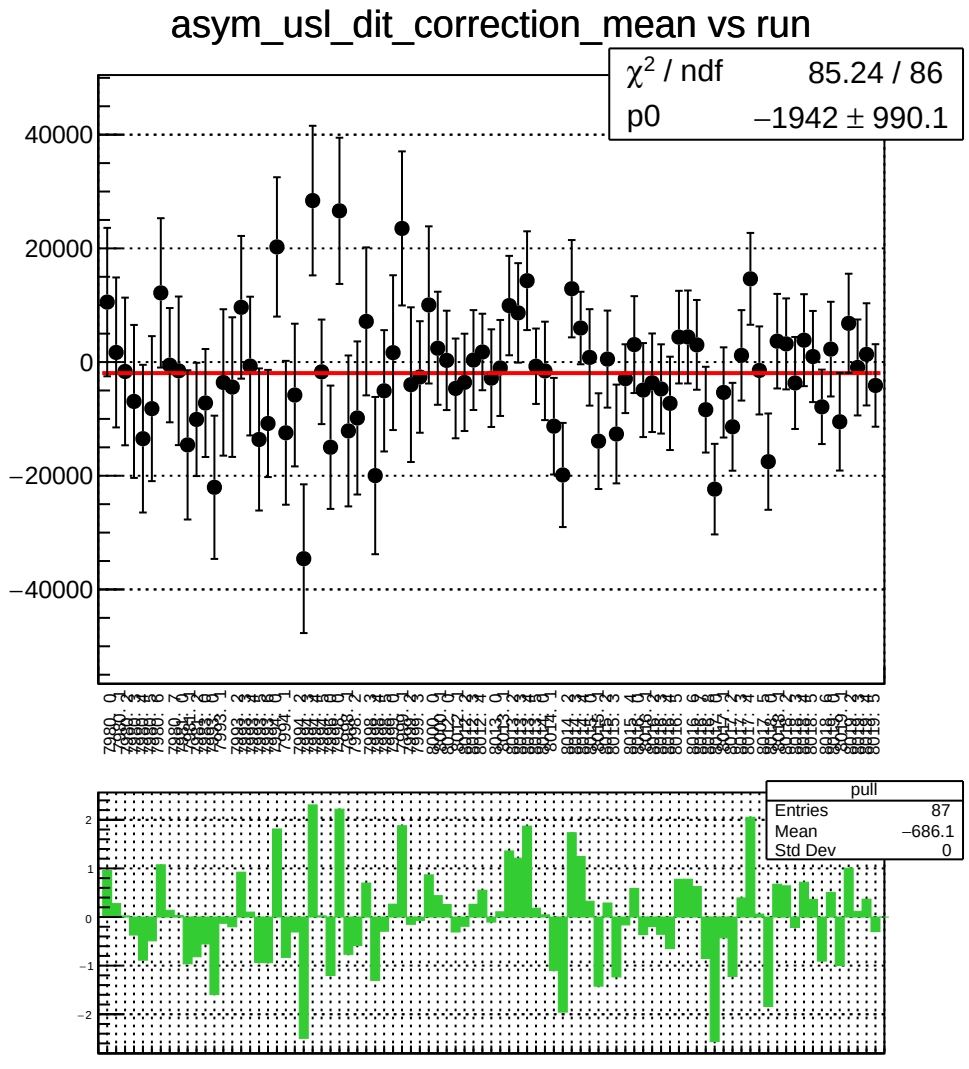

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 84.81 / 86
p0 −2004 ± 969.9
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −201
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.003411
Std Dev 0.9873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

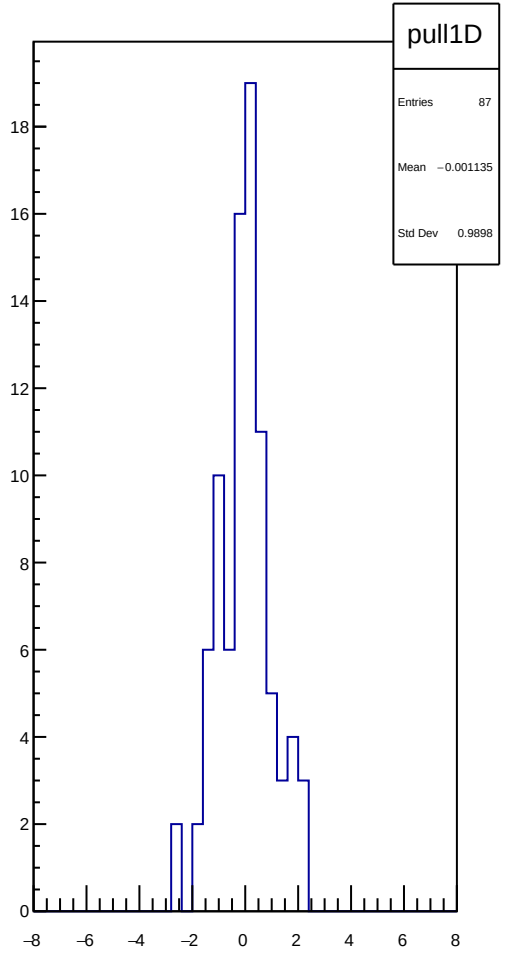

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 8.288e+04 / 86
p0 888.4 ± 0.6858
1300
1200
1100
1000
900
800
700
600

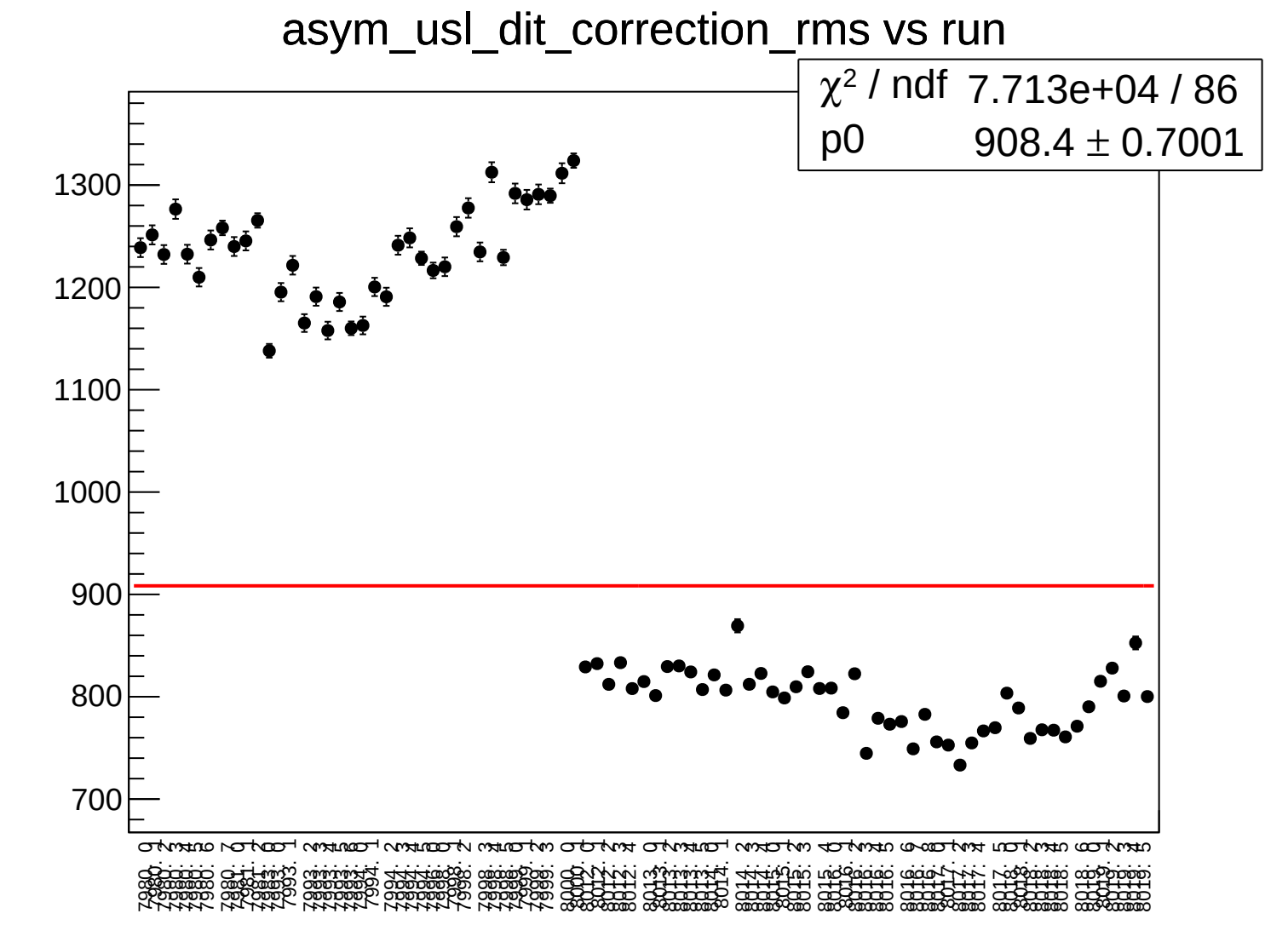

dit_asym_usl_mean vs run
χ² / ndf 86.67 / 86
p0 2152 ± 1154
pull
Entries 87
Mean 694.1
Std Dev 0

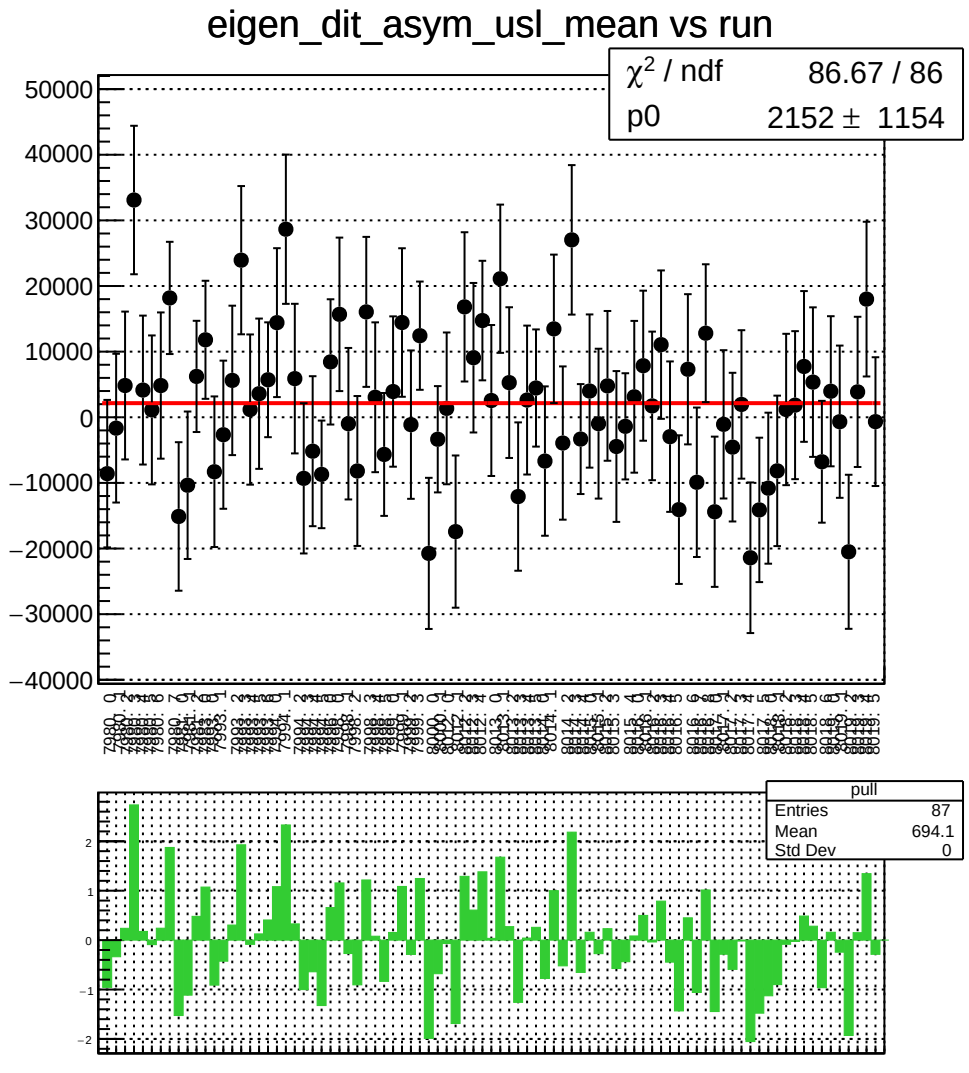

pull1D
Entries 87
Mean −0.008188
Std Dev 0.9981

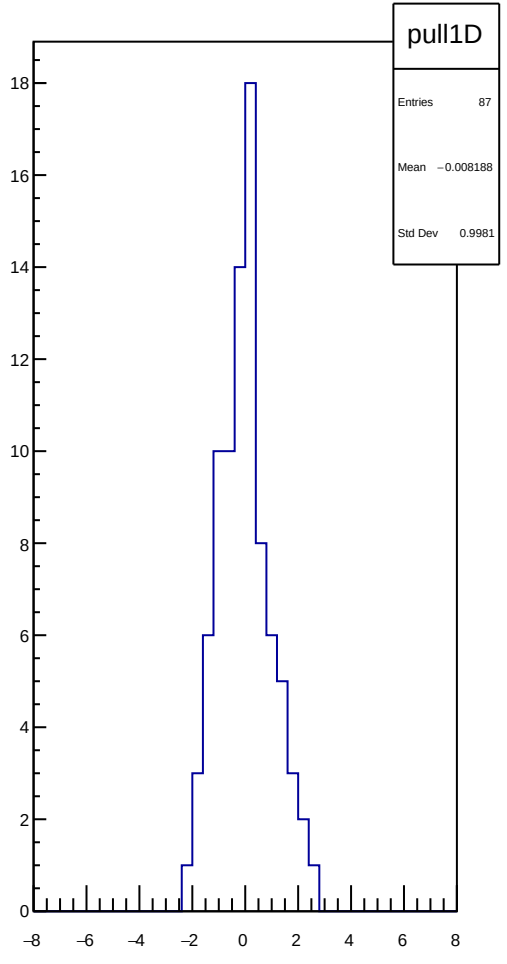

dit_asym_usl_rms vs run
χ^2 / ndf 166.9 / 86
p0 1083 ± 0.816
1130
1120
1110
1100
1090
1080
1070
1060
1050

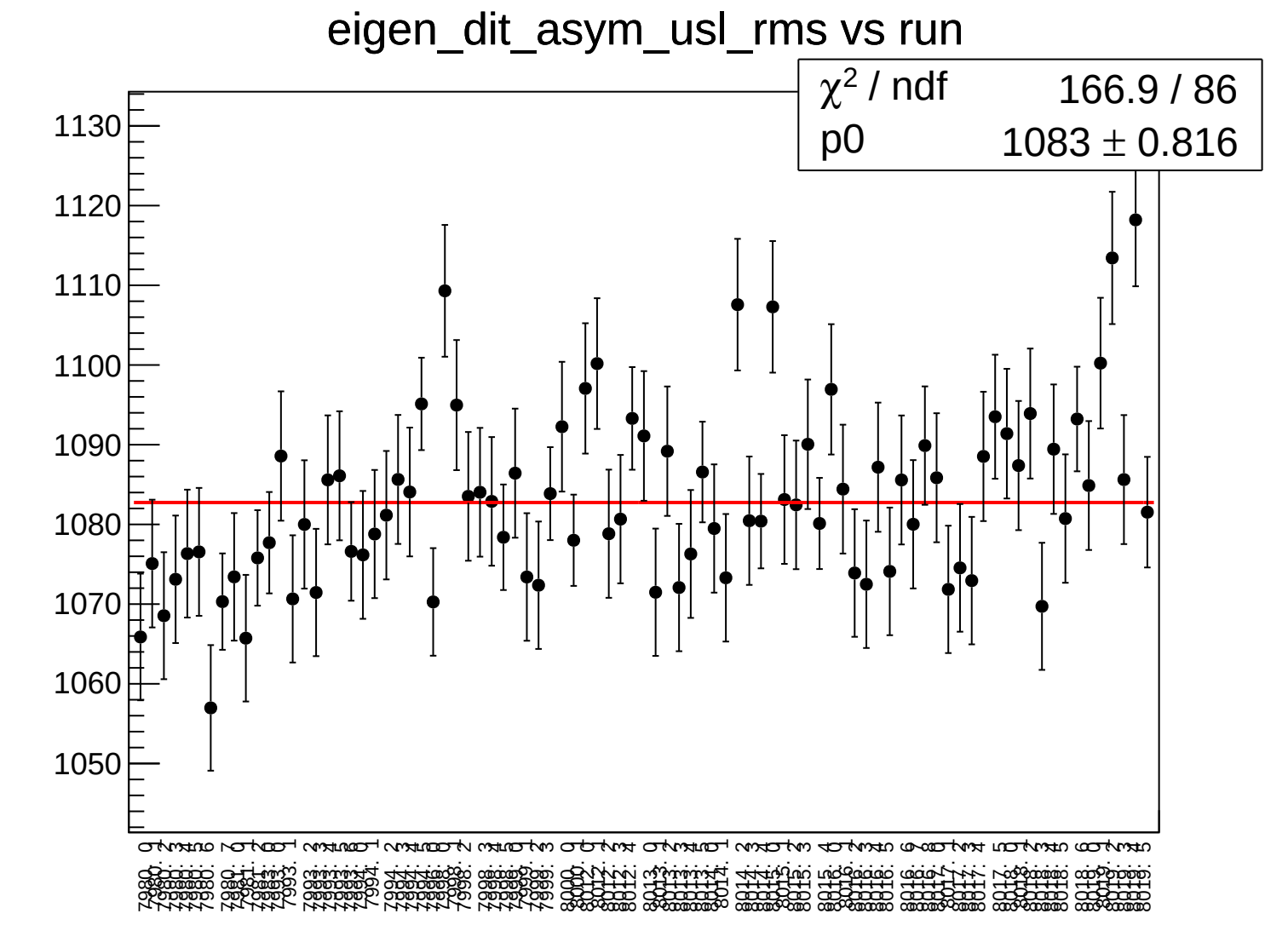

asym_usl_dit_correction_mean vs run
χ² / ndf 85.24 / 86
p0 −1942 ± 990.1
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −686.1
Std Dev 0
2
1
0
−1
−2

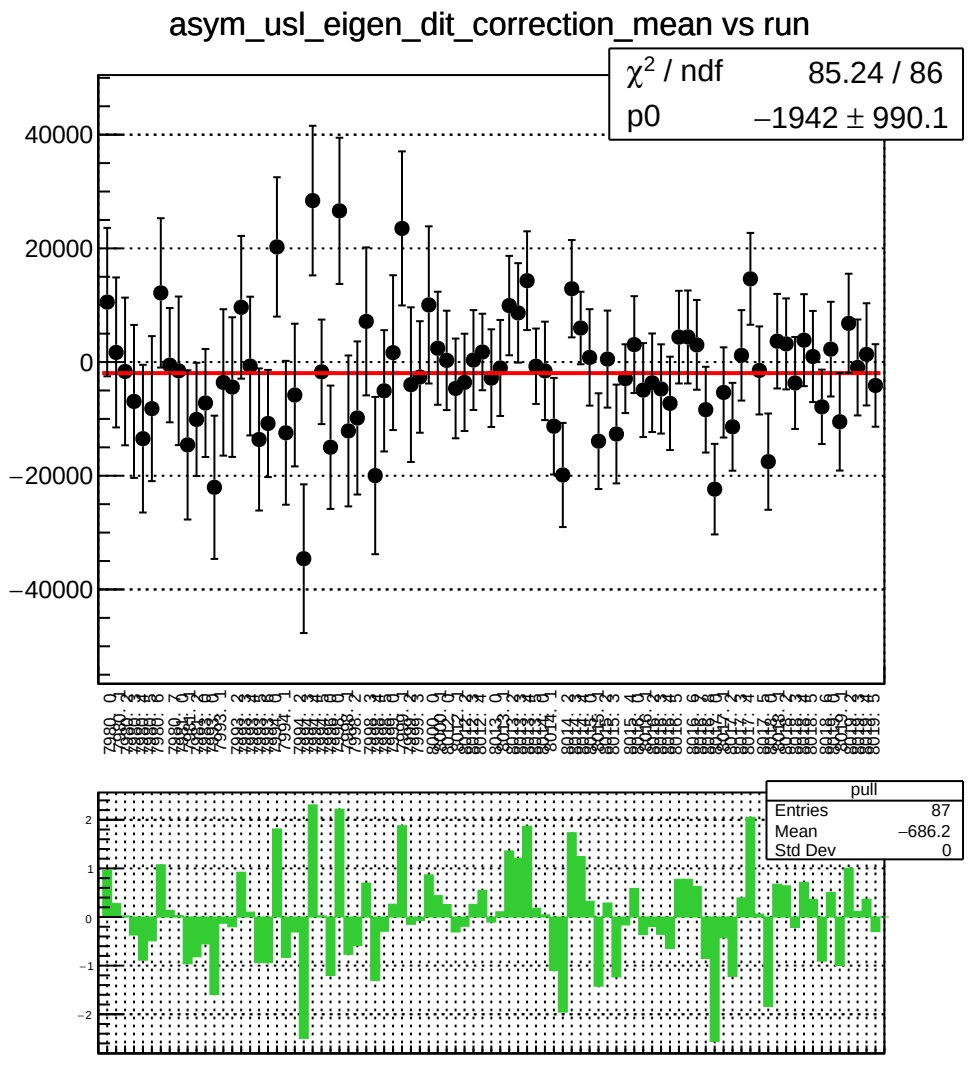

pull1D
Entries 87
Mean −0.001135
Std Dev 0.9898
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

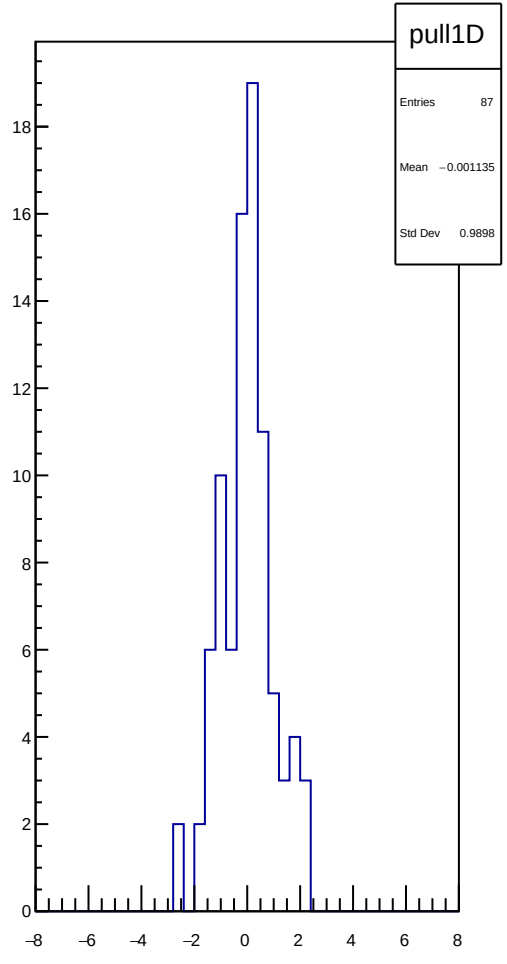

asym_usl_dit_correction_rms vs run
χ² / ndf 7.713e+04 / 86
p0 908.4 ± 0.7001
1300
1200
1100
1000
900
800
700

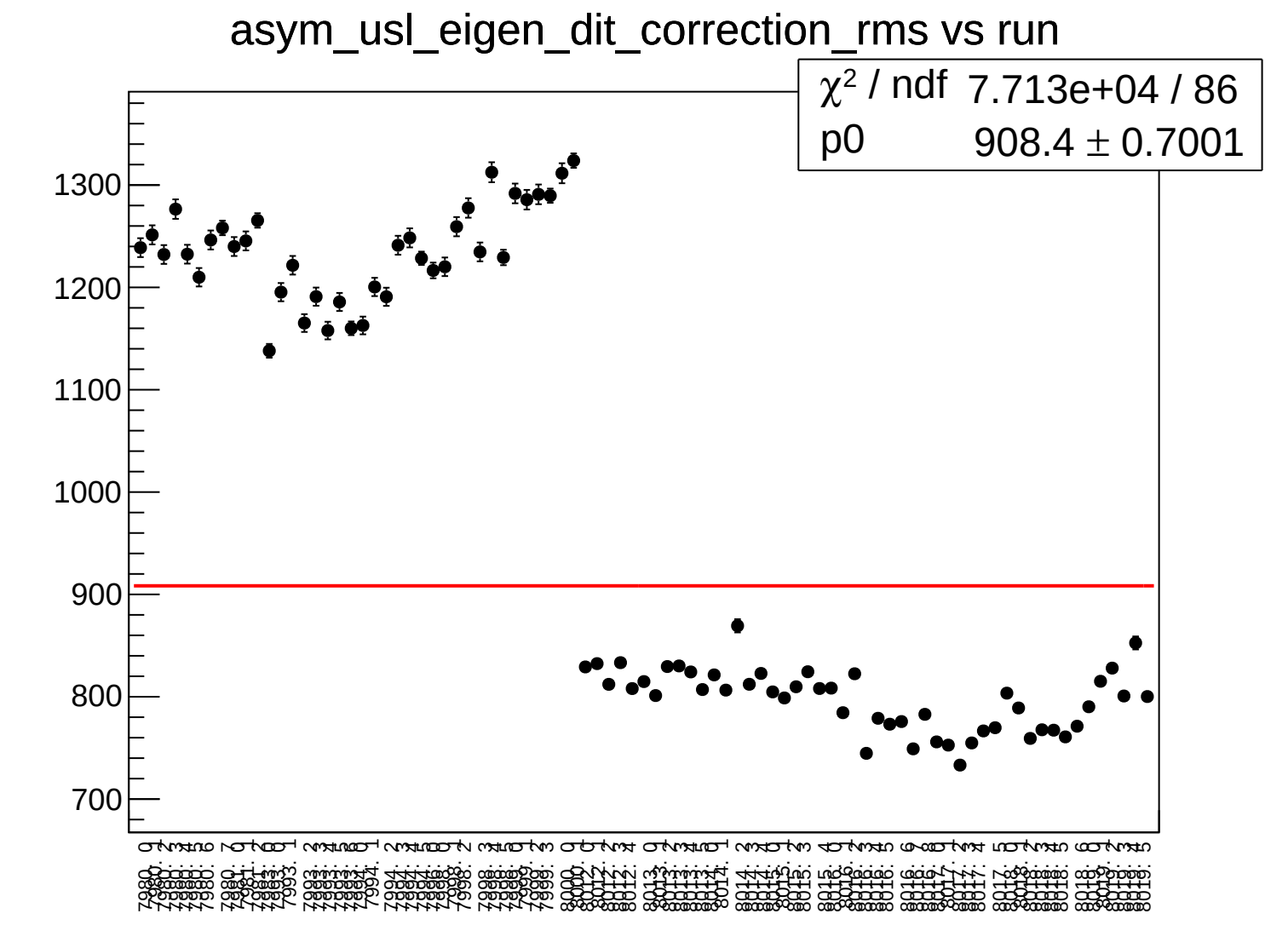

eigen_dit_asym_usl_mean vs run
χ² / ndf 86.67 / 86
p0 2152 ± 1154
pull
Entries 87
Mean 694.1
Std Dev 0

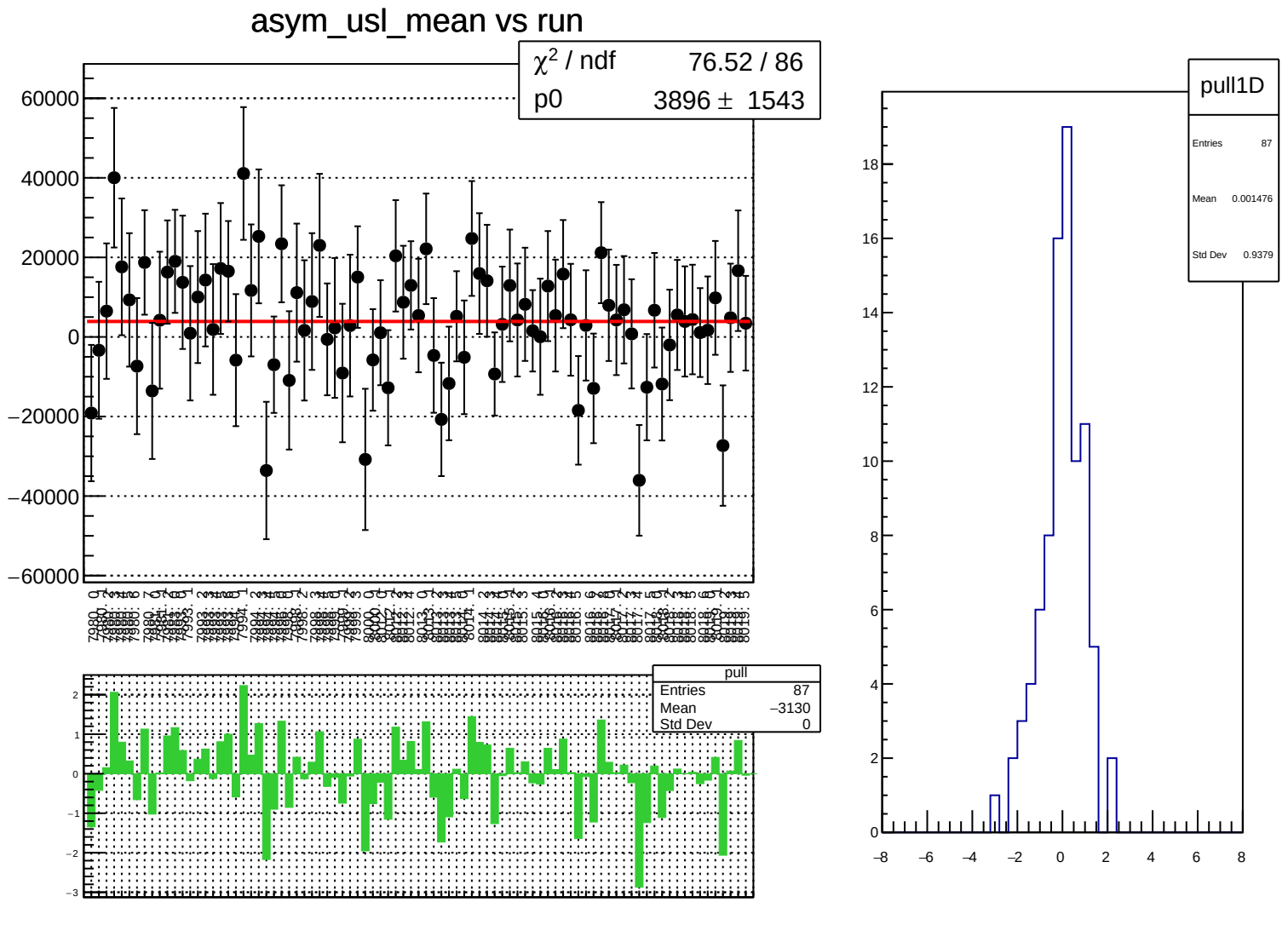

pull1D
Entries 87
Mean −0.008188
Std Dev 0.9981

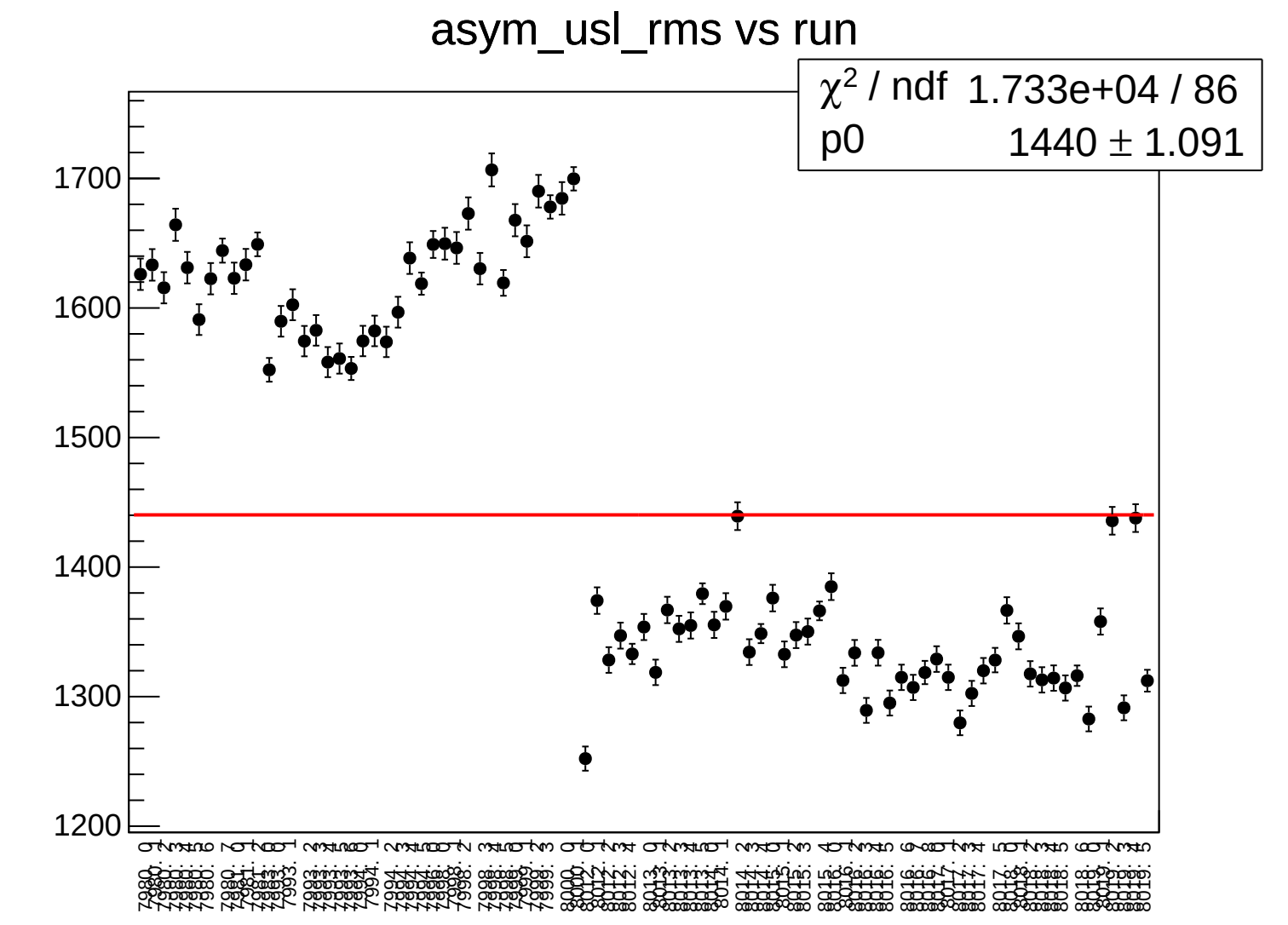

eigen_dit_asym_usl_rms vs run
χ² / ndf 166.9 / 86
p0 1083 ± 0.816
1130
1120
1110
1100
1090
1080
1070
1060
1050

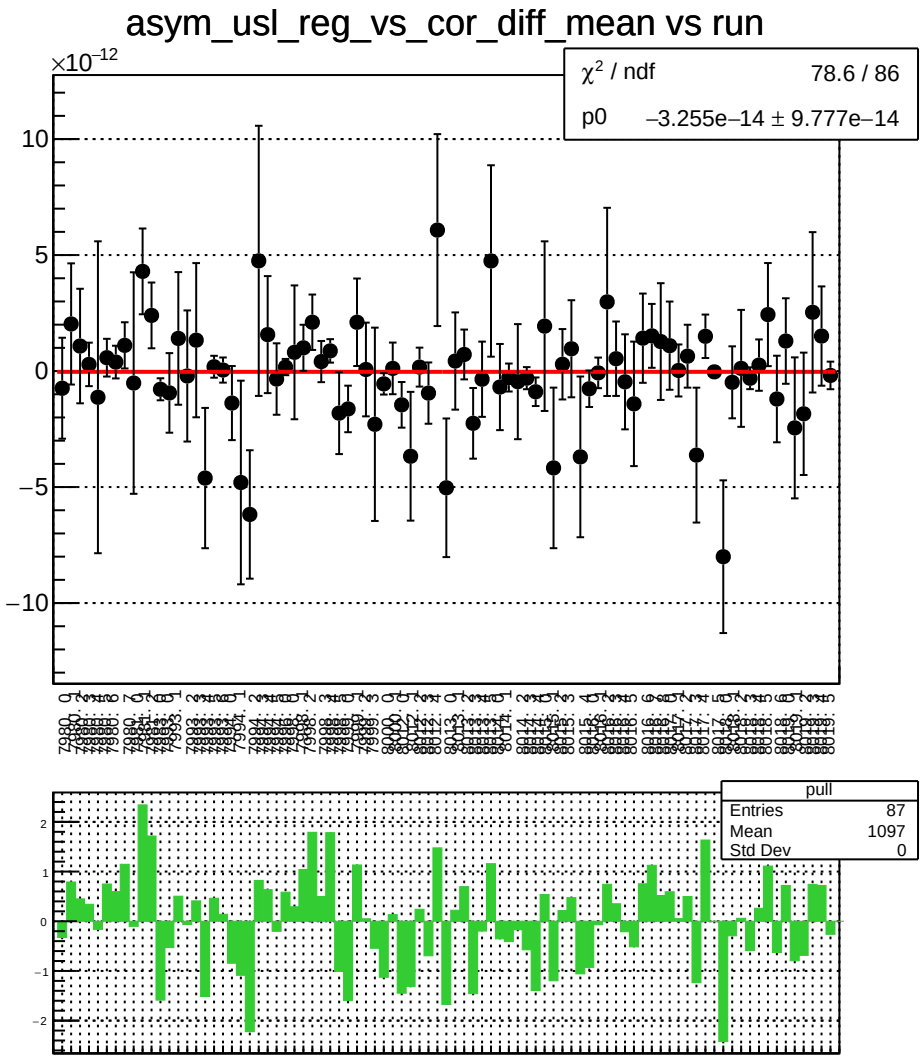

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 85.24 / 86
p0 −1942 ± 990.1
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −686.2
Std Dev 0
2
1
0
−1
−2

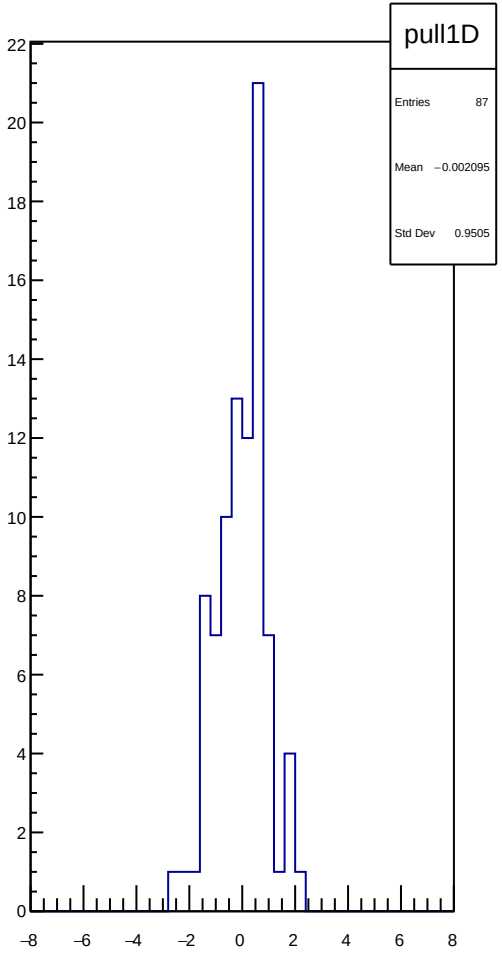

pull1D
Entries 87
Mean −0.001135
Std Dev 0.9898
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

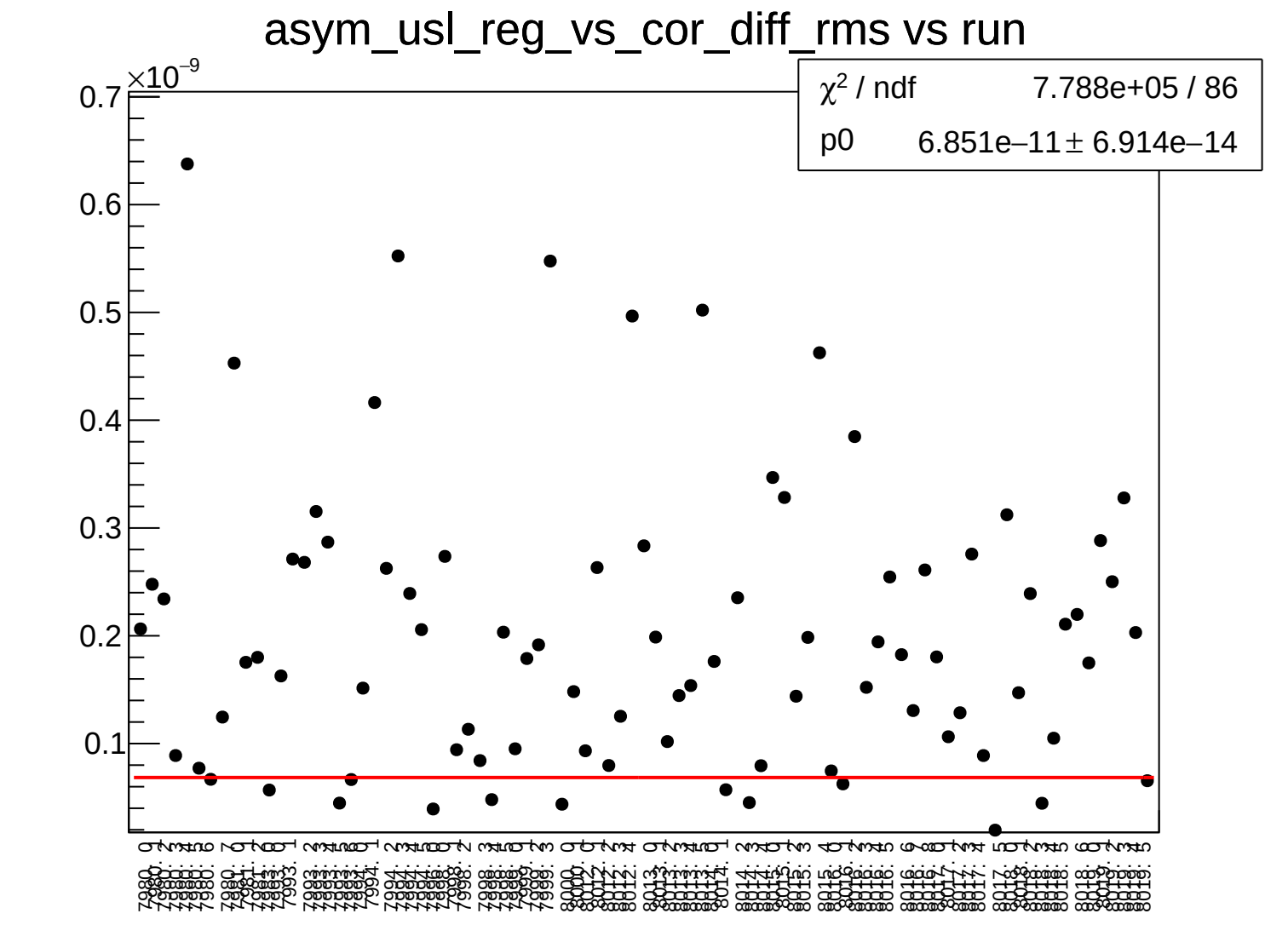

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 7.713e+04 / 86
p0 908.4 ± 0.7001
1300
1200
1100
1000
900
800
700

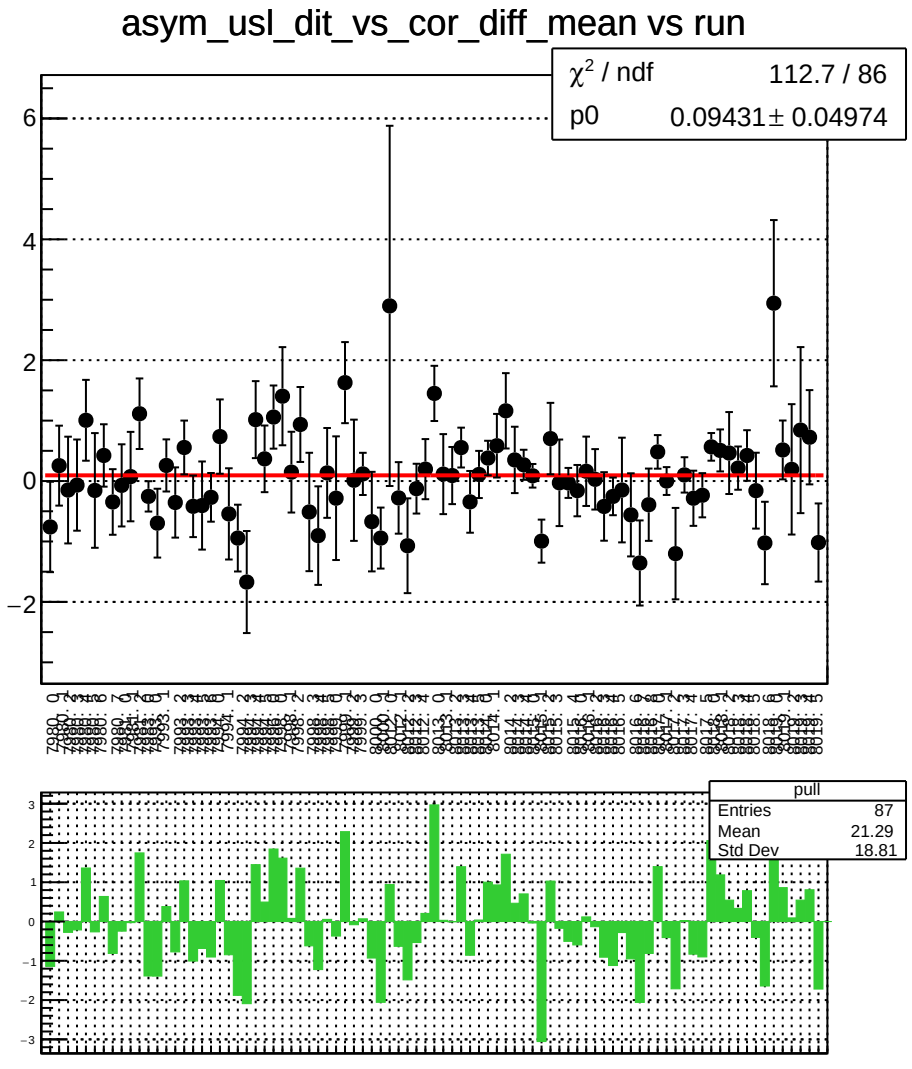

asym_usl_mean vs run
χ² / ndf 76.52 / 86
p0 3896 ± 1543
pull
Entries 87
Mean −3130
Std Dev 0
pull1D
Entries 87
Mean 0.001476
Std Dev 0.9379

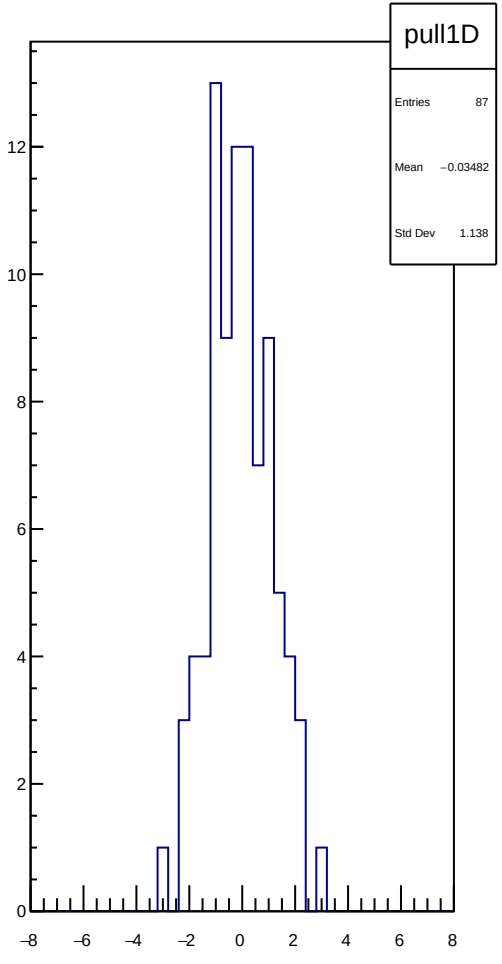

asym_usl_rms vs run
χ² / ndf 1.733e+04 / 86
p0 1440 ± 1.091
1700
1600
1500
1400
1300
1200

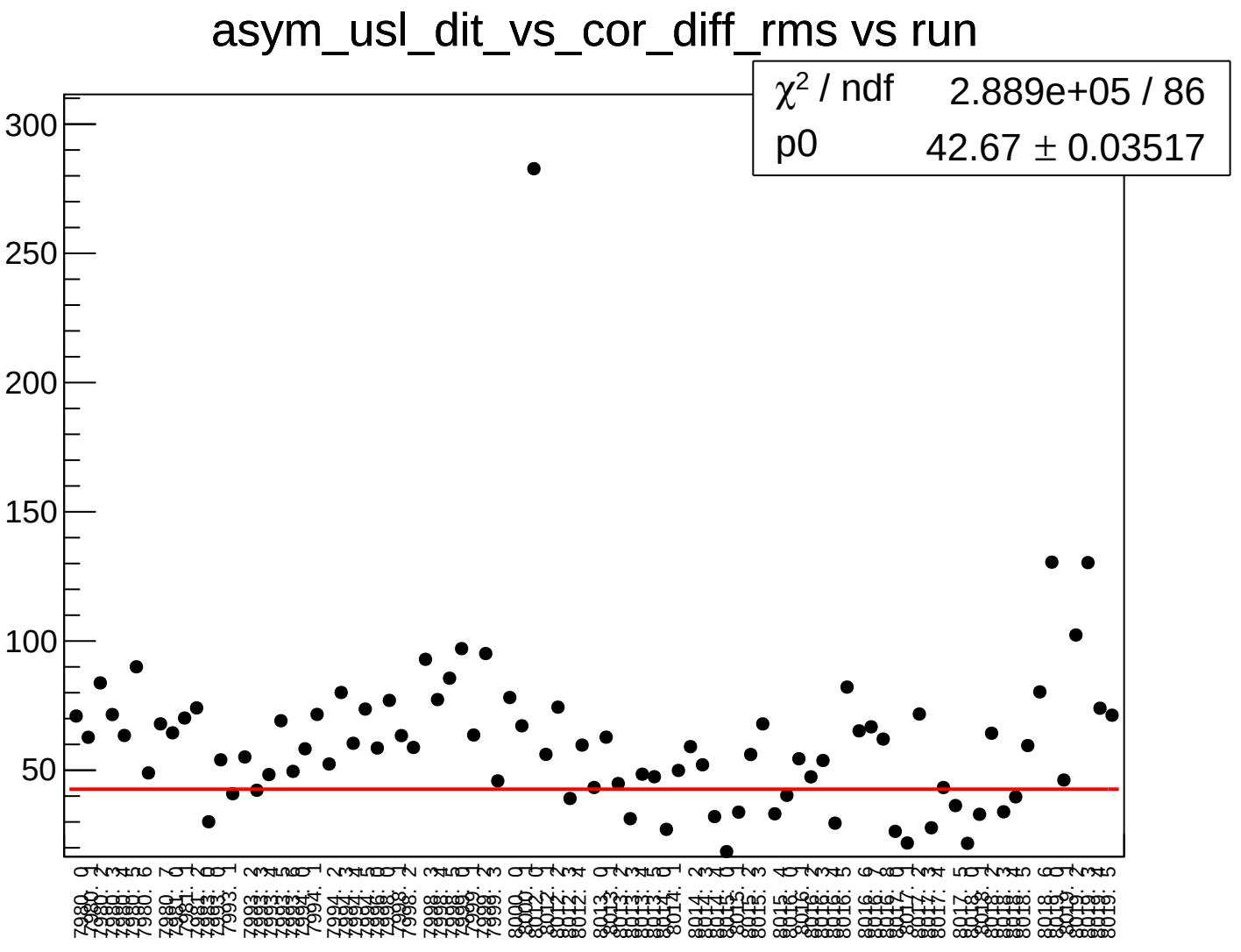

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.6 / 86
p0 −3.255e−14 ± 9.777e−14
pull
Entries 87
Mean 1097
Std Dev 0

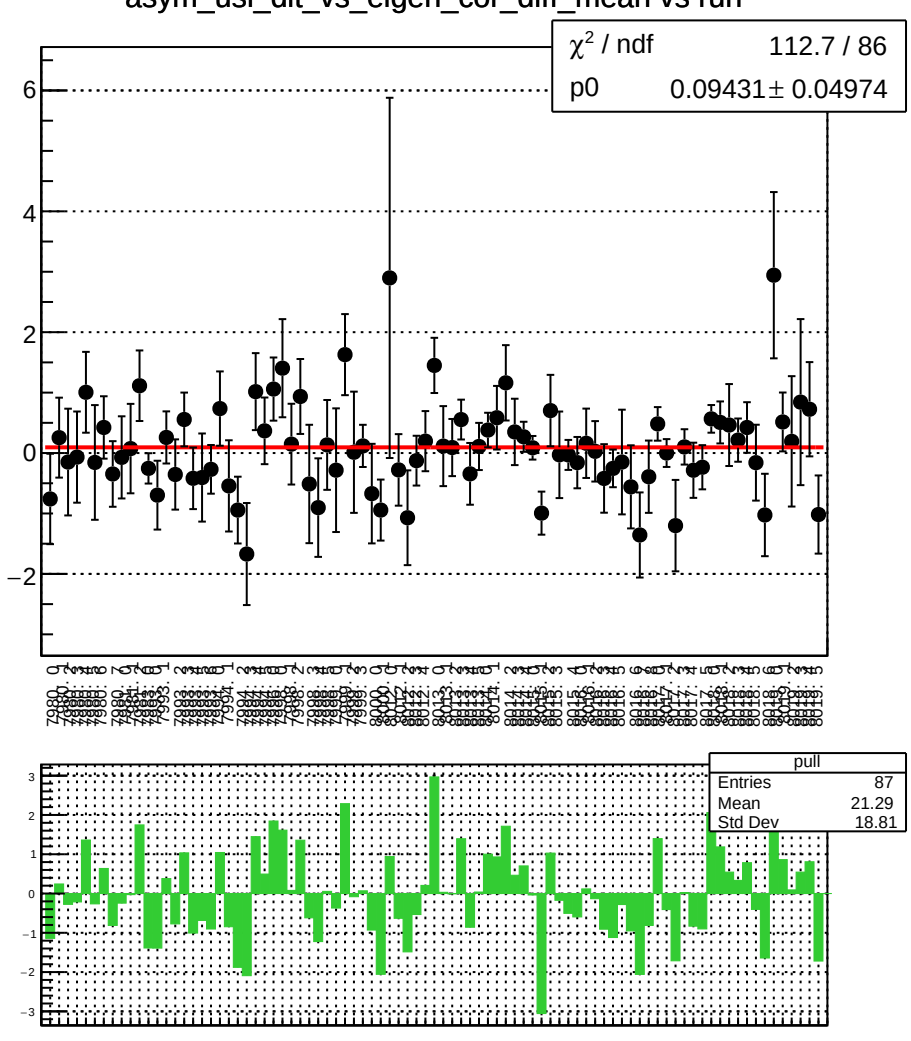

pull1D
Entries 87
Mean −0.002095
Std Dev 0.9505

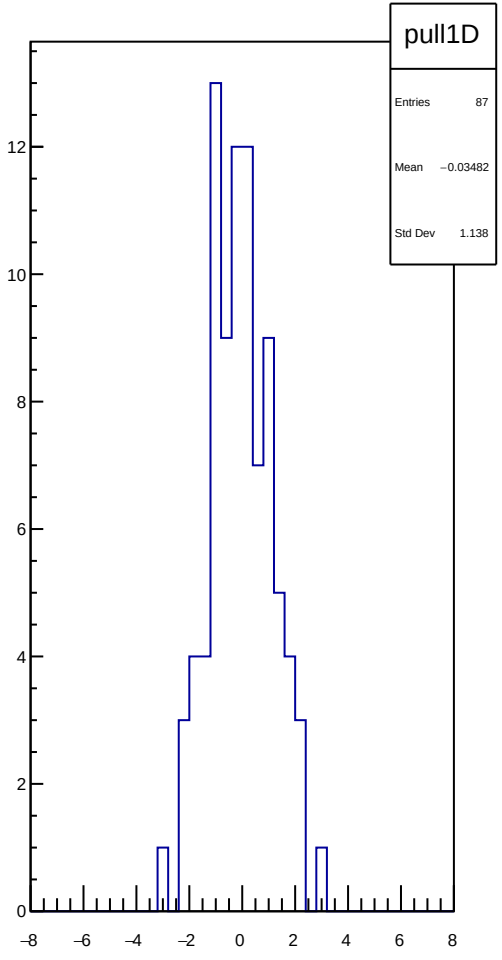

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 7.788e+05 / 86
p0 6.851e−11 ± 6.914e−14

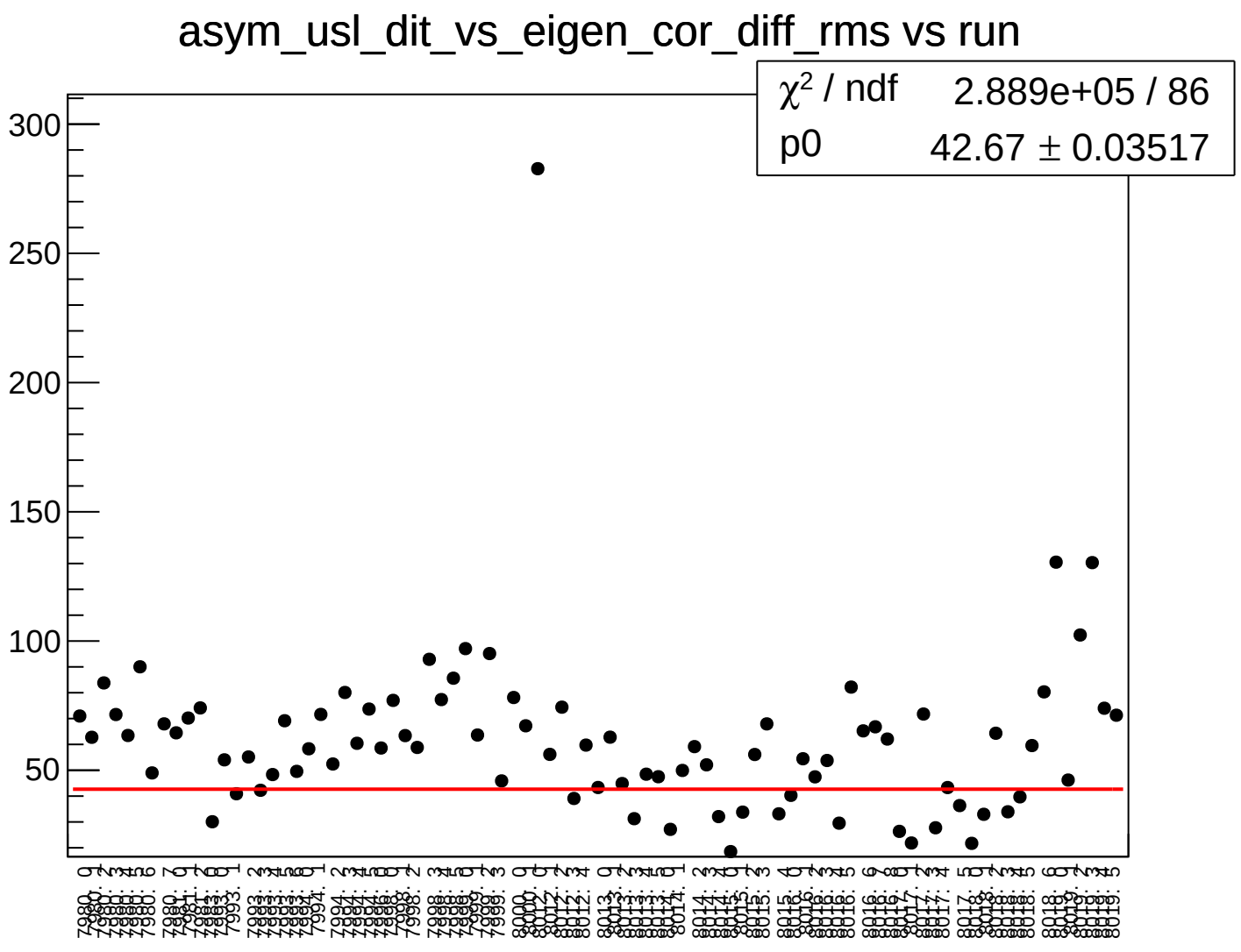

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 112.7 / 86
p0 0.09431 ± 0.04974
pull
Entries 87
Mean 21.29
Std Dev 18.81

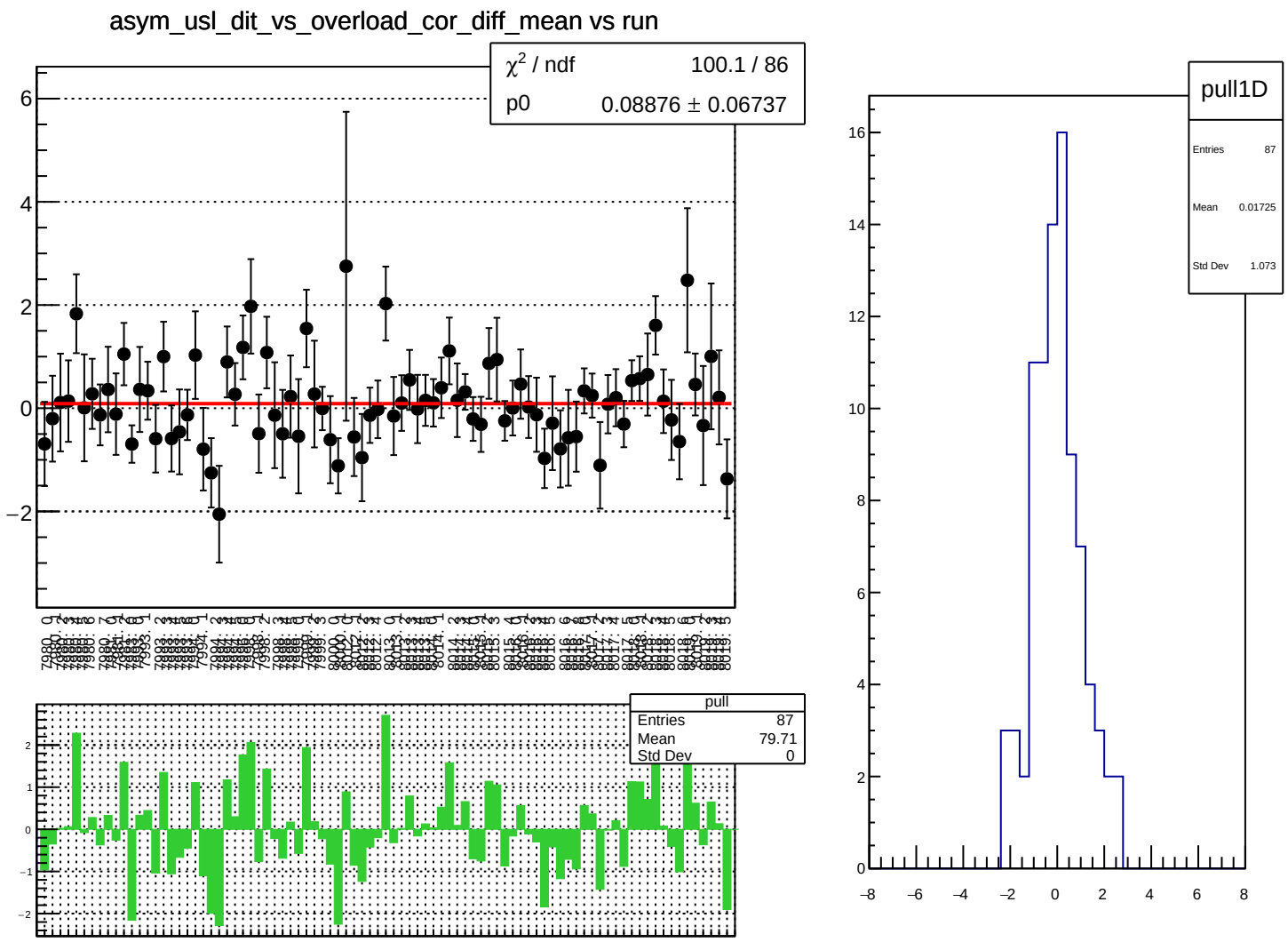

pull1D
Entries 87
Mean −0.03482
Std Dev 1.138

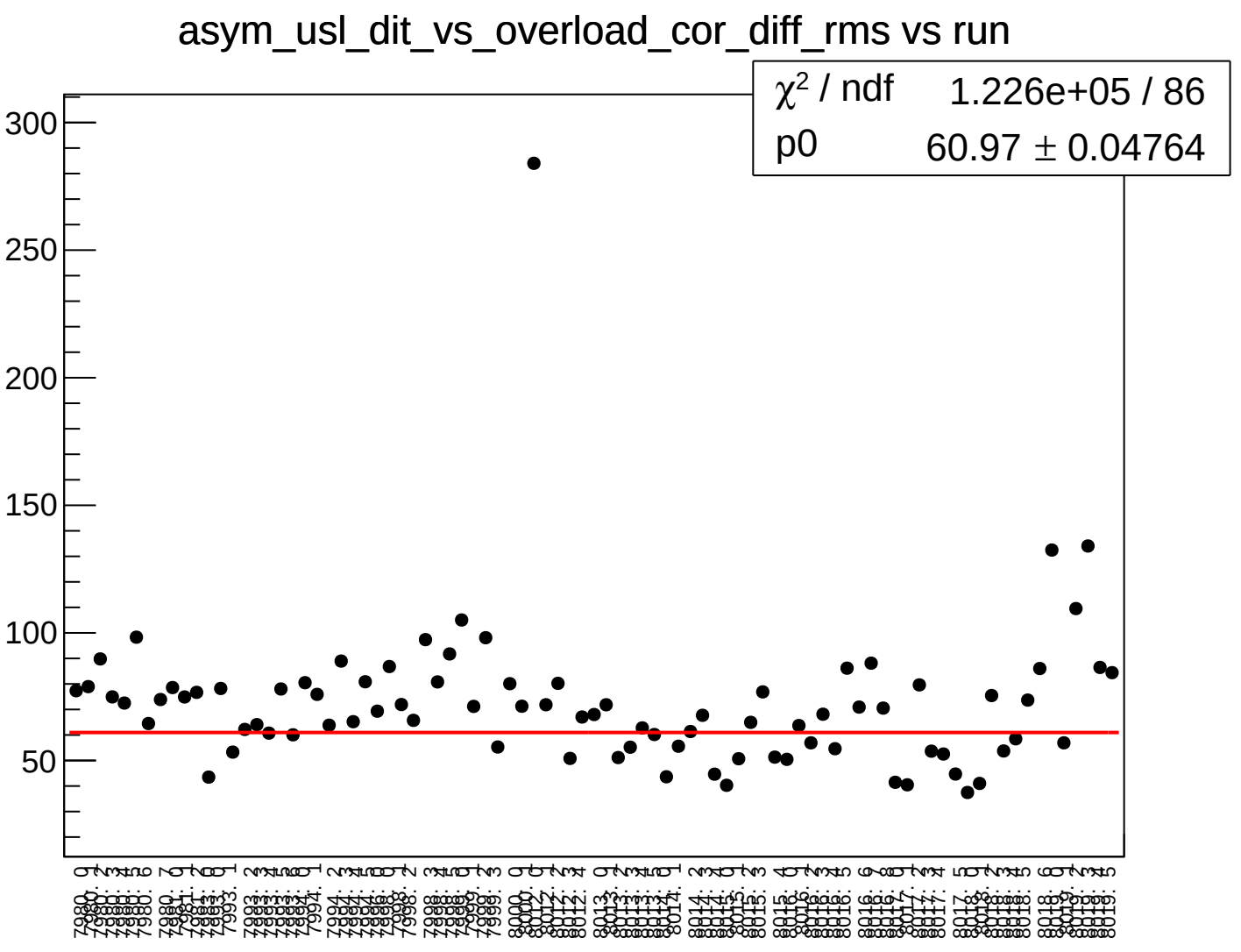

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 2.889e+05 / 86
p0 42.67 ± 0.03517
300
250
200
150
100
50

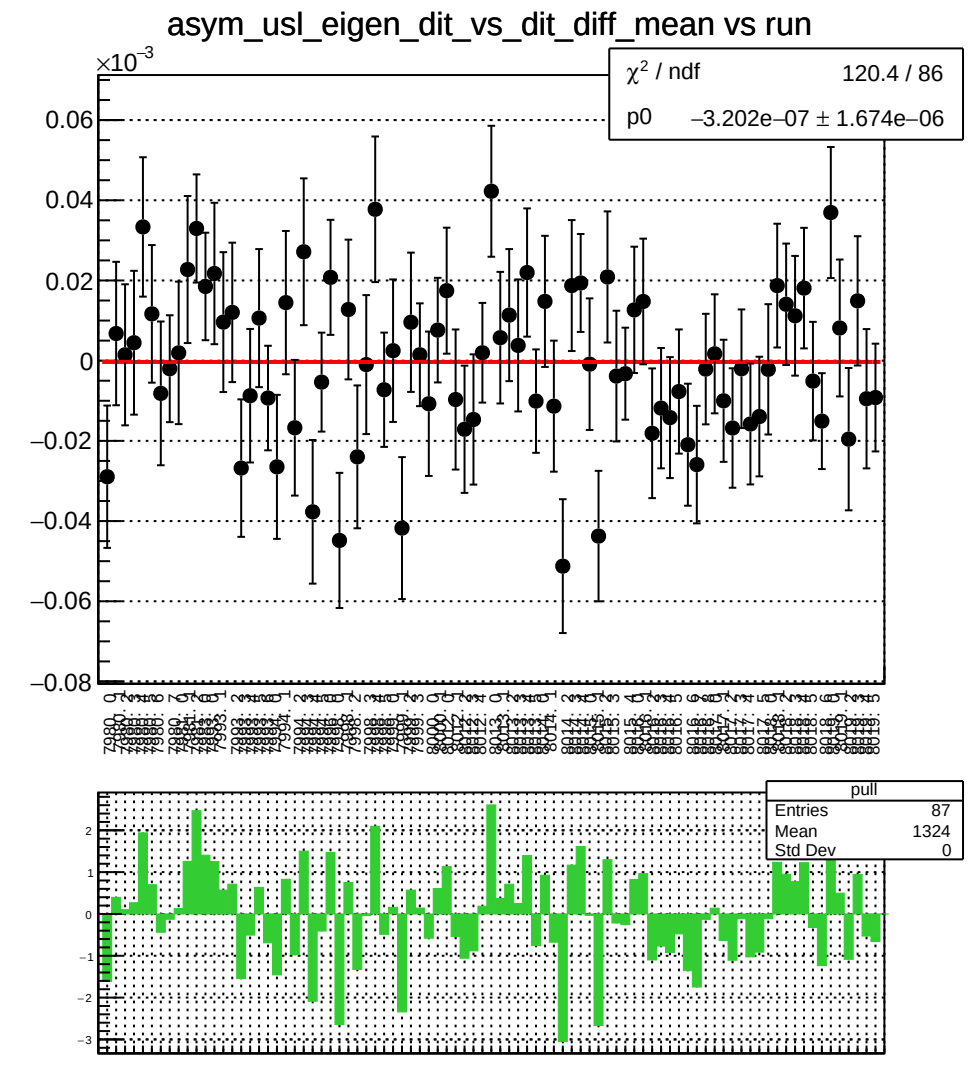

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.7 / 86
p0 0.09431 ± 0.04974
pull
Entries 87
Mean 21.29
Std Dev 18.81

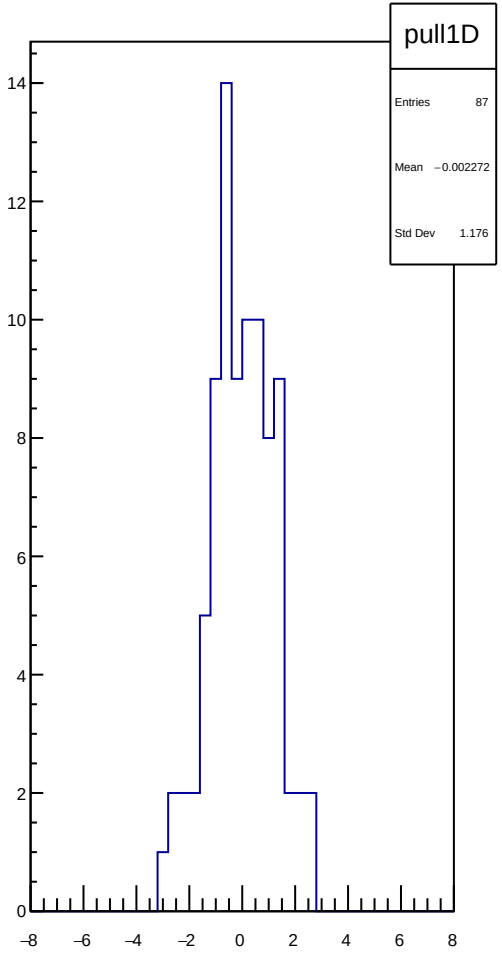

pull1D
Entries 87
Mean −0.03482
Std Dev 1.138

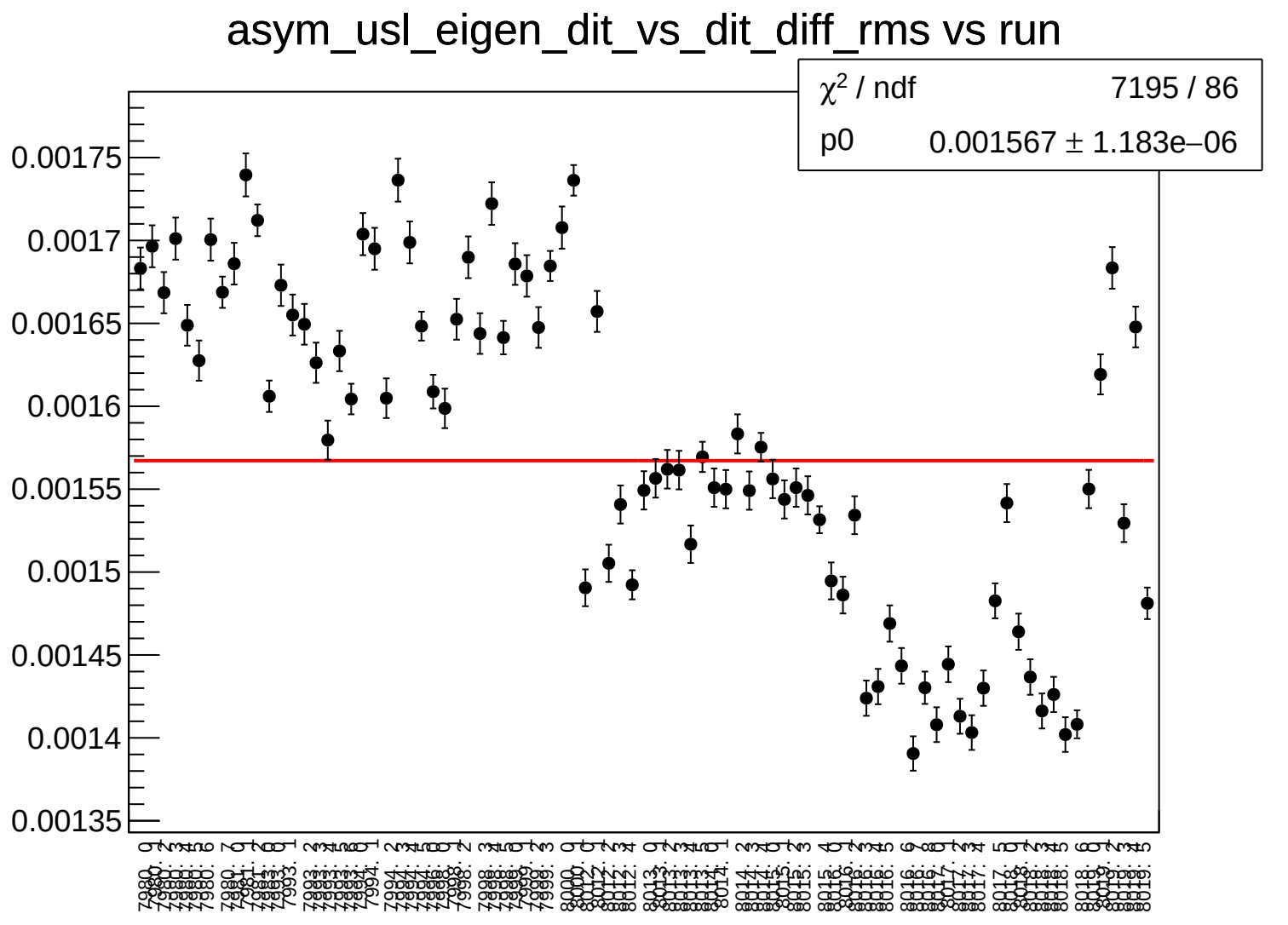

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.889e+05 / 86
p0 42.67 ± 0.03517
300
250
200
150
100
50

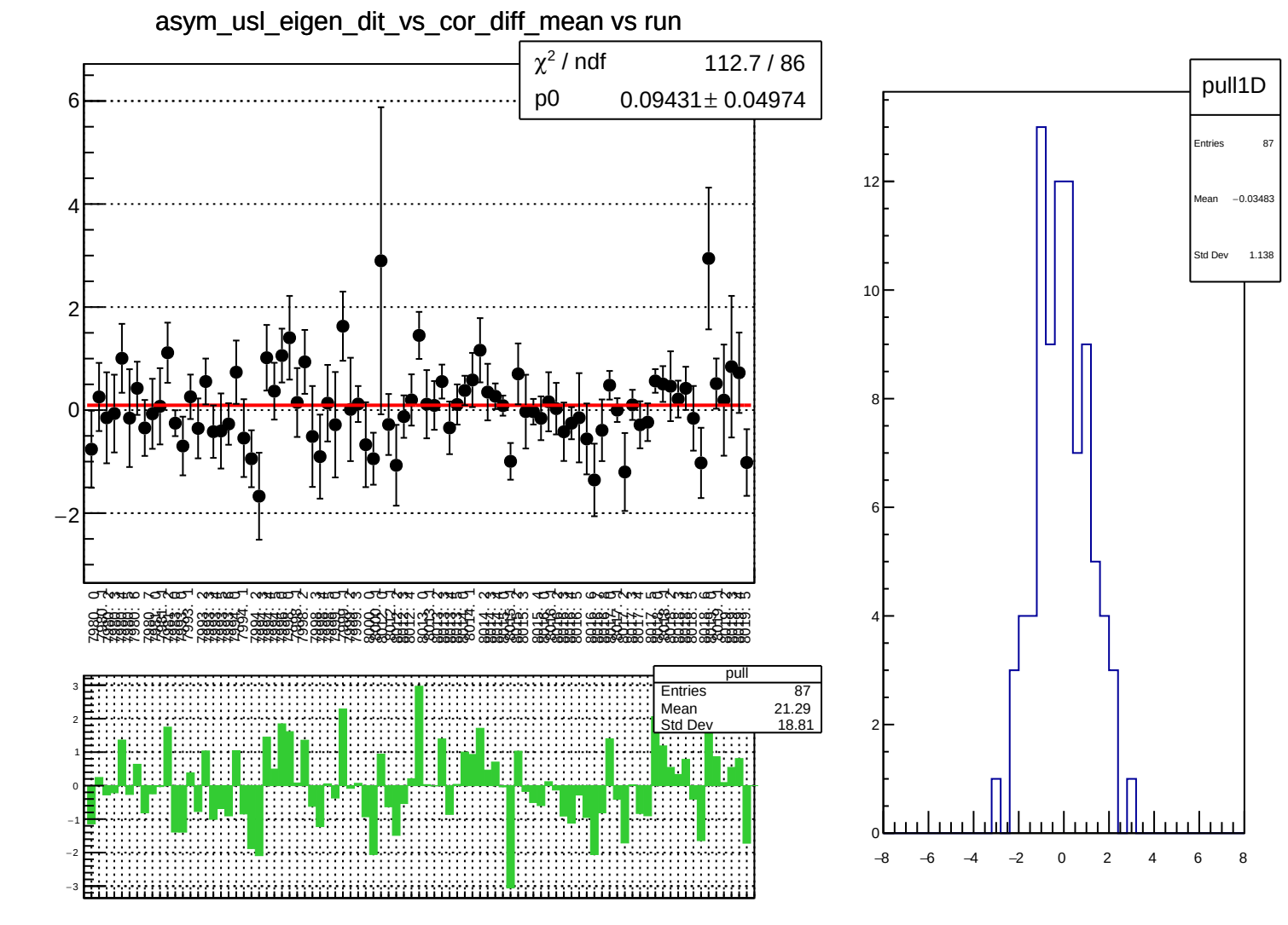

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 100.1 / 86
p0 0.08876 ± 0.06737
pull
Entries 87
Mean 79.71
Std Dev 0
pull1D
Entries 87
Mean 0.01725
Std Dev 1.073

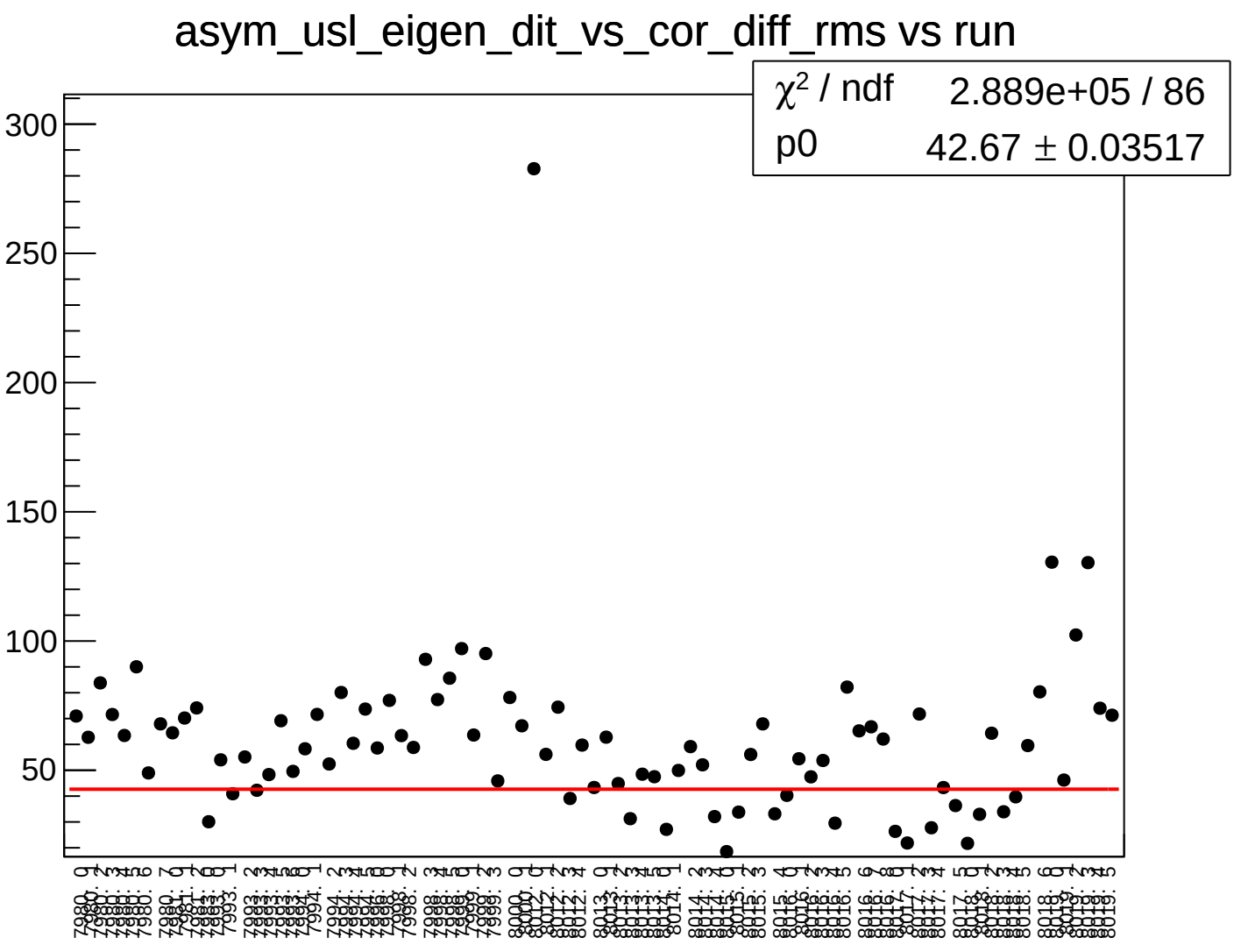

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.226e+05 / 86
p0 60.97 ± 0.04764
300
250
200
150
100
50

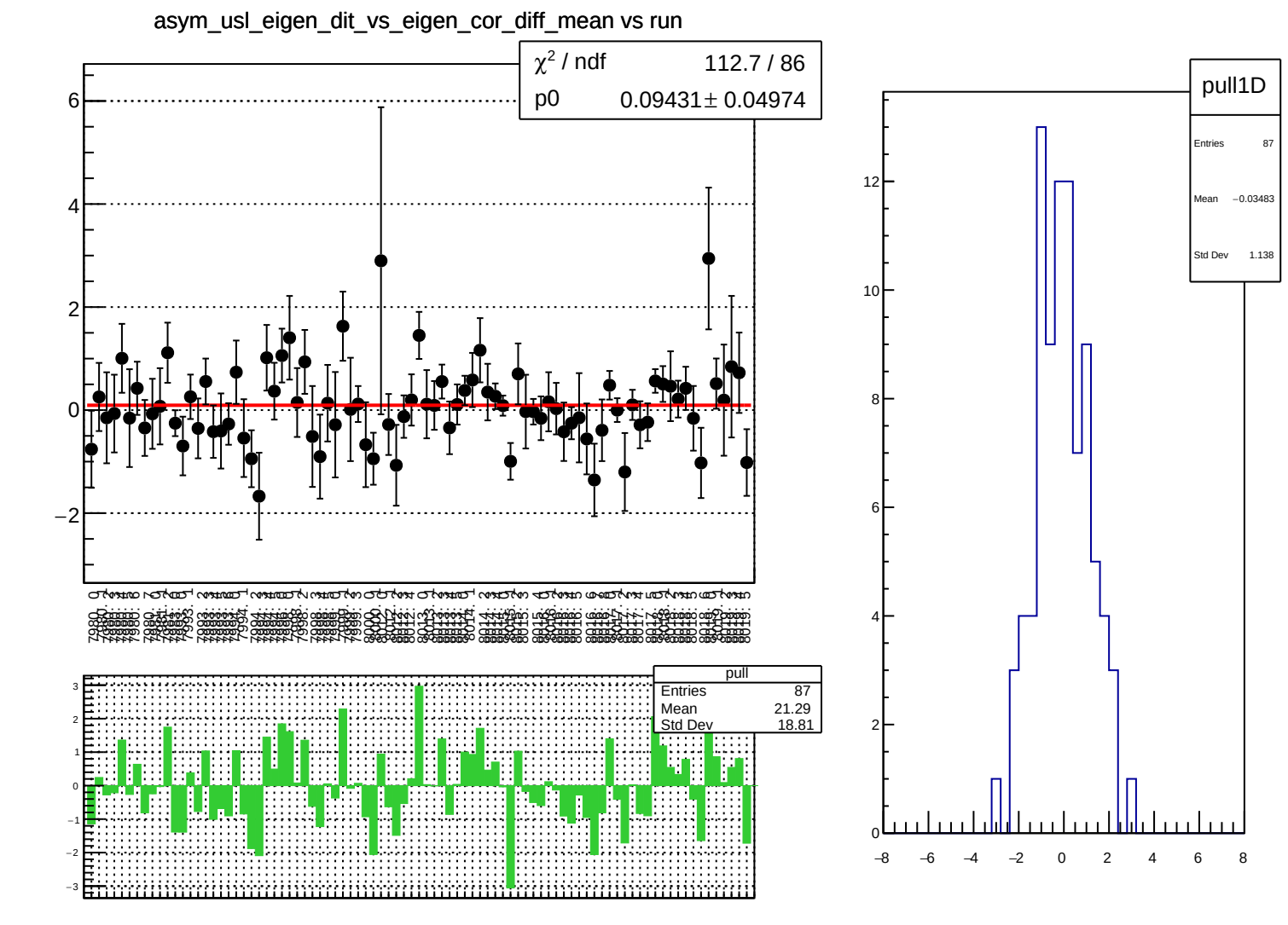

asym_usl_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 120.4 / 86
p0 −3.202e−07 ± 1.674e−06
×10⁻³
pull
Entries 87
Mean 1324
Std Dev 0

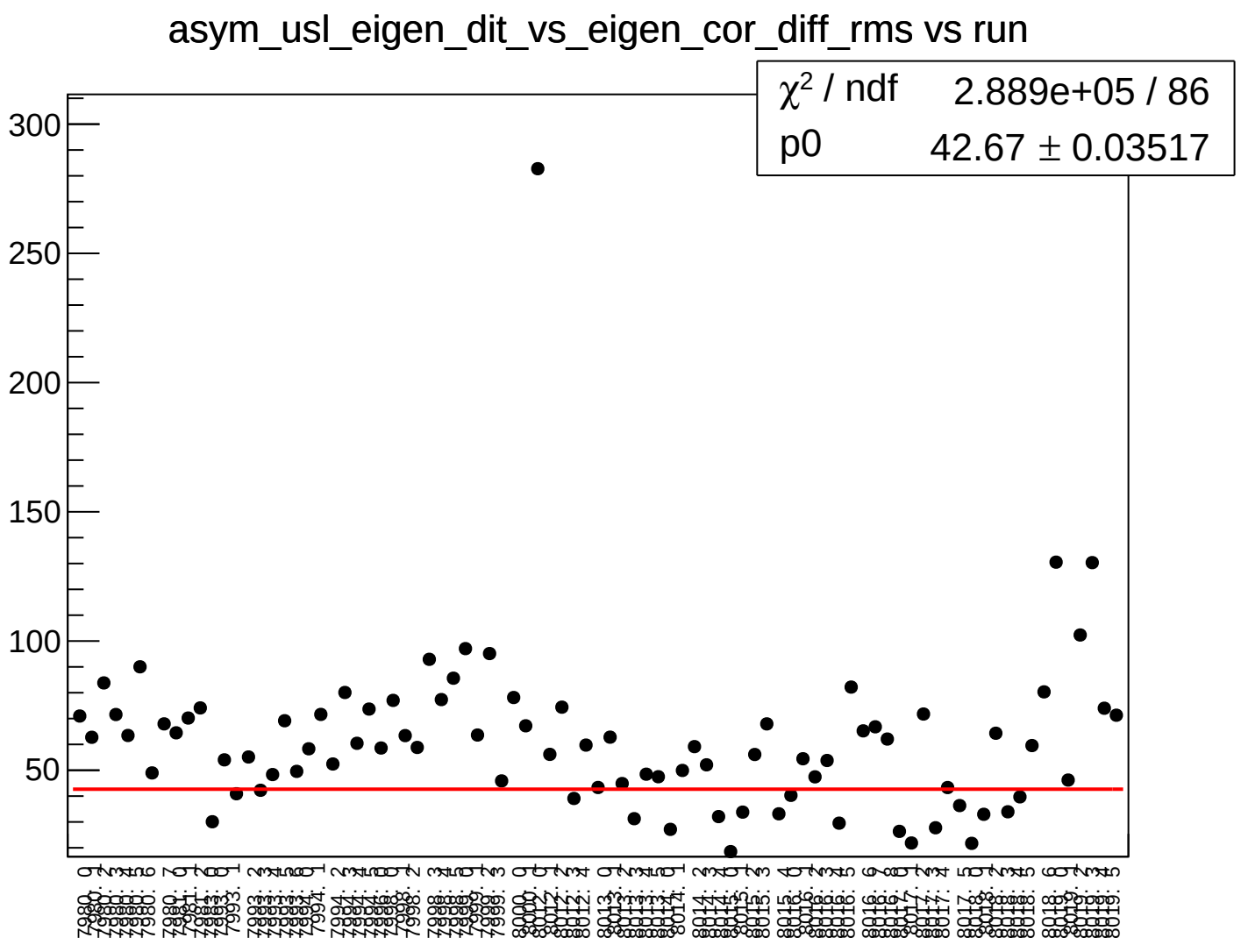

pull1D
Entries 87
Mean −0.002272
Std Dev 1.176

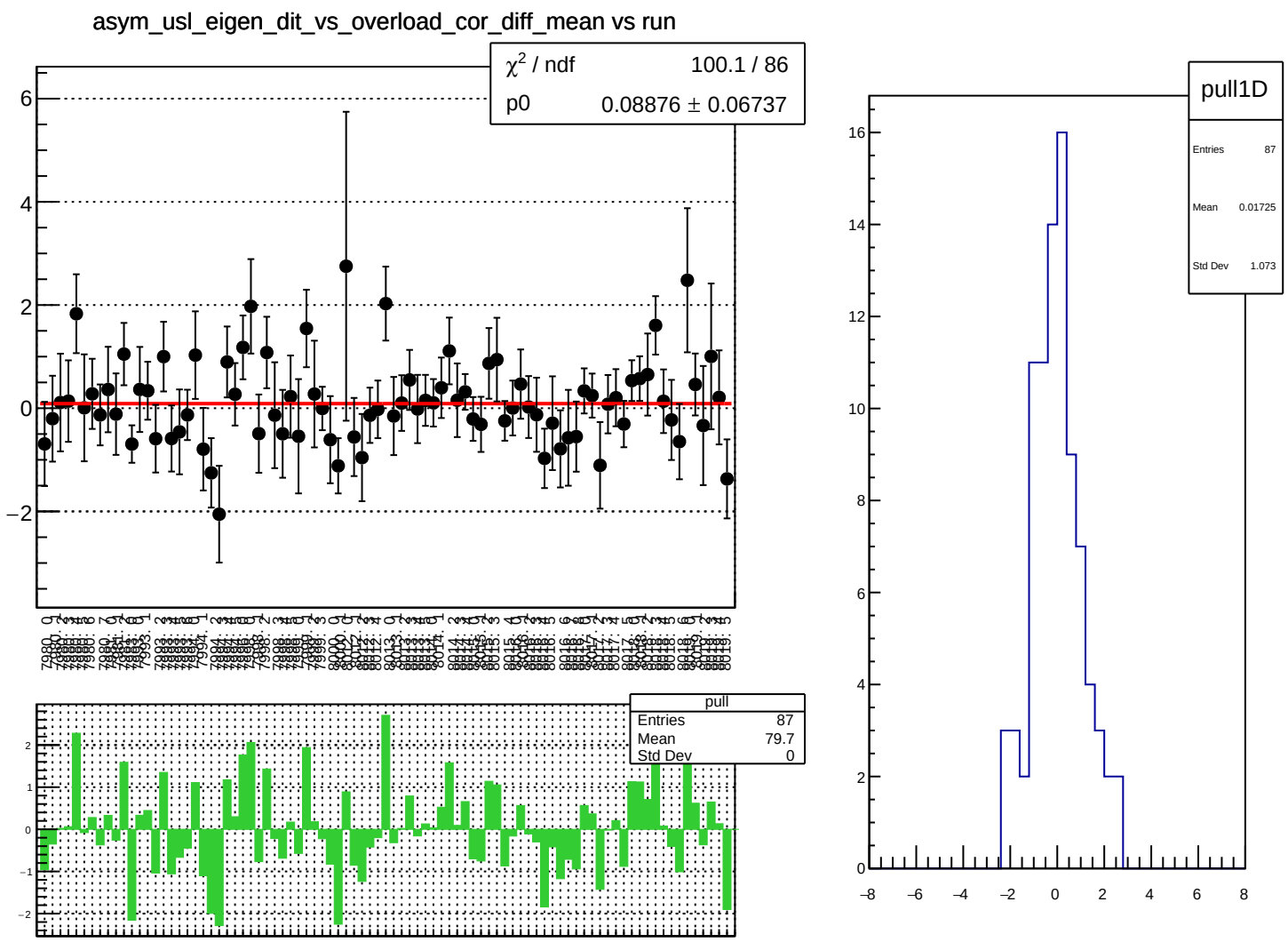

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7195 / 86
p0 0.001567 ± 1.183e−06
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135

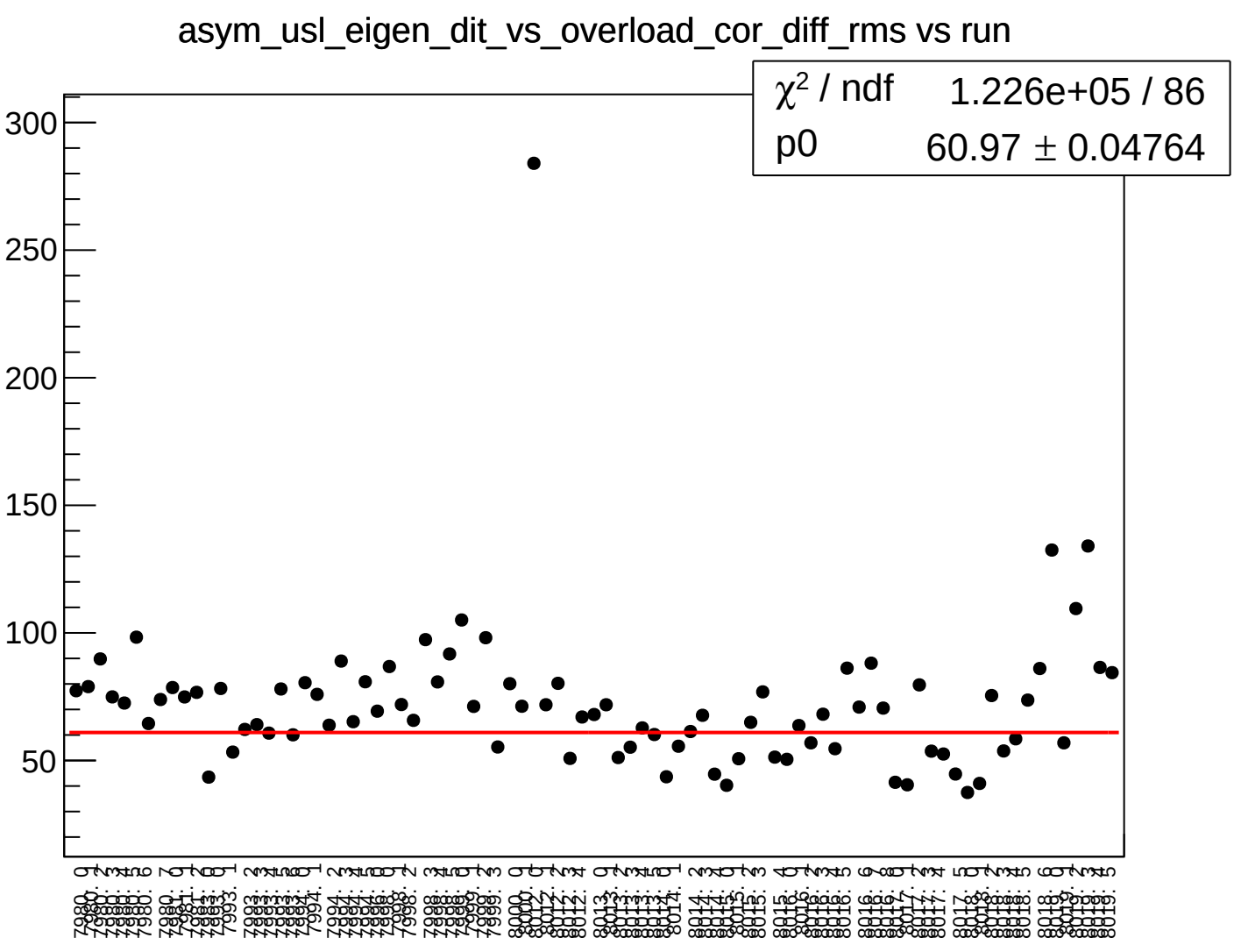

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.7 / 86
p0 0.09431 ± 0.04974
pull
Entries 87
Mean 21.29
Std Dev 18.81
pull1D
Entries 87
Mean −0.03483
Std Dev 1.138

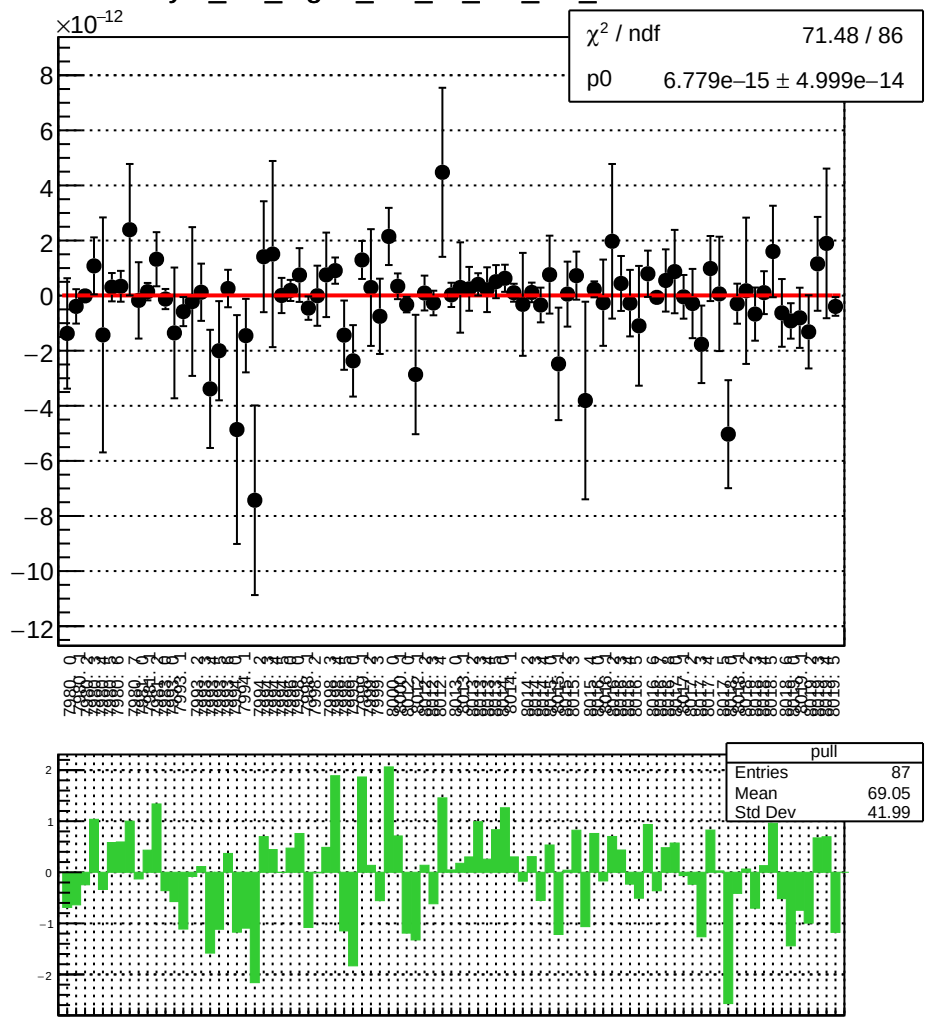

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.889e+05 / 86
p0 42.67 ± 0.03517
300
250
200
150
100
50

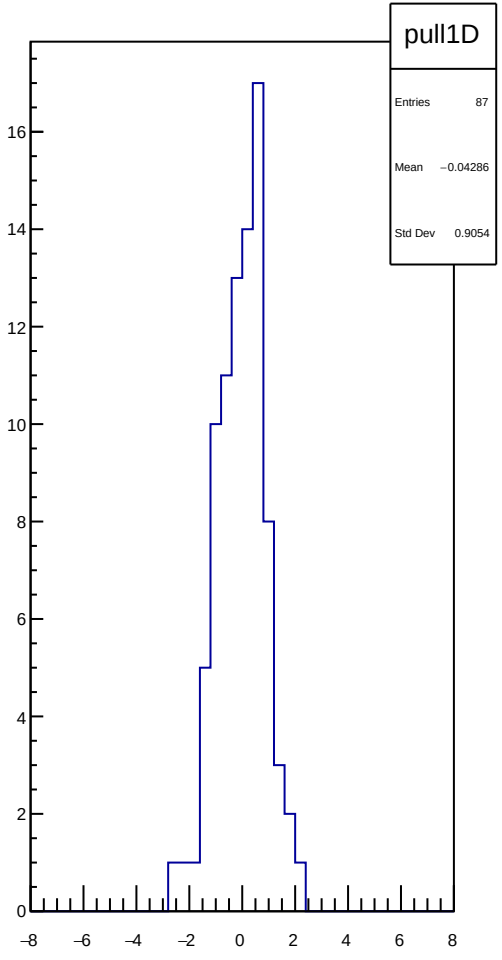

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.7 / 86
p0 0.09431 ± 0.04974
pull
Entries 87
Mean 21.29
Std Dev 18.81
pull1D
Entries 87
Mean −0.03483
Std Dev 1.138

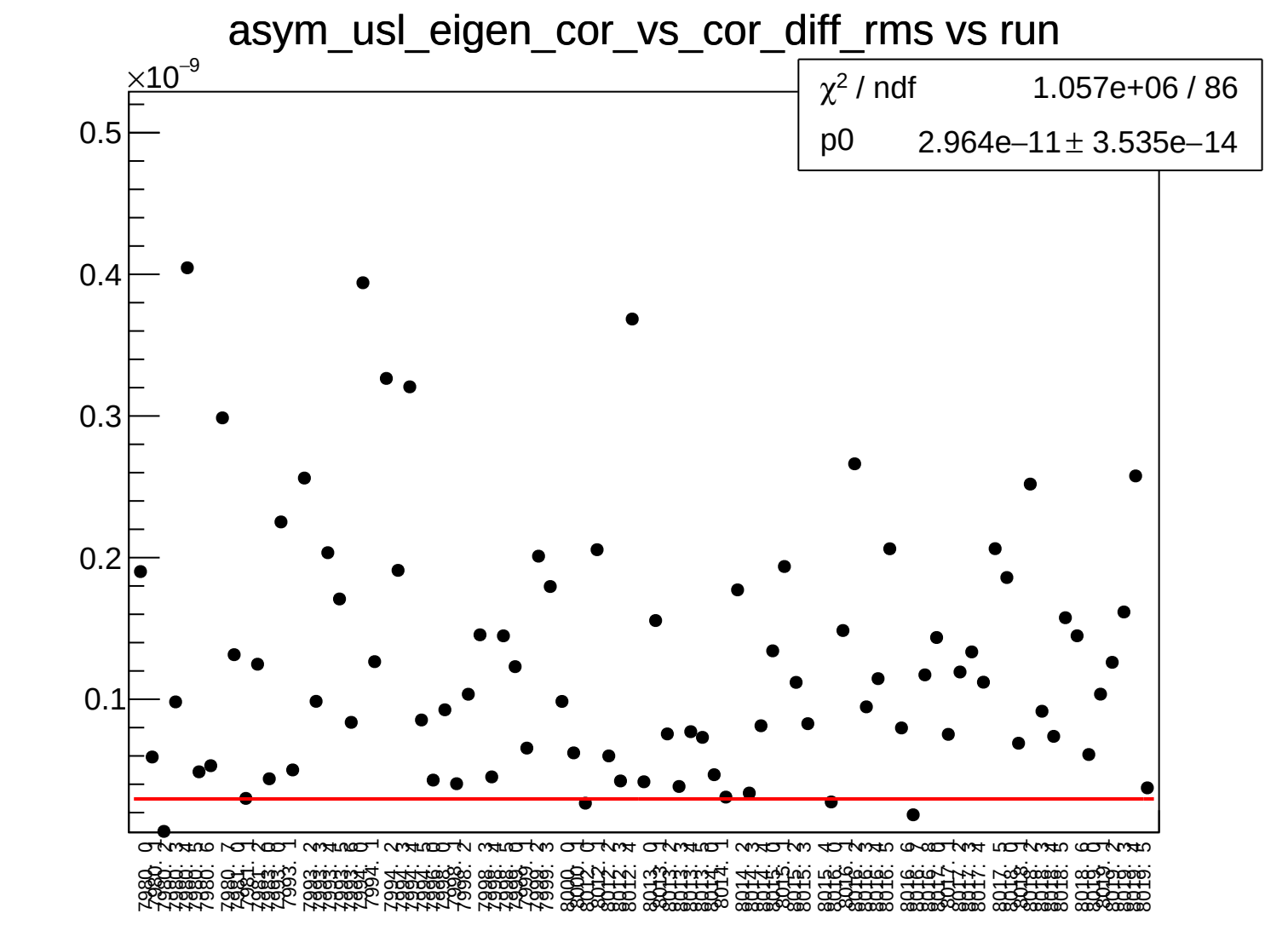

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.889e+05 / 86
p0 42.67 ± 0.03517
300
250
200
150
100
50

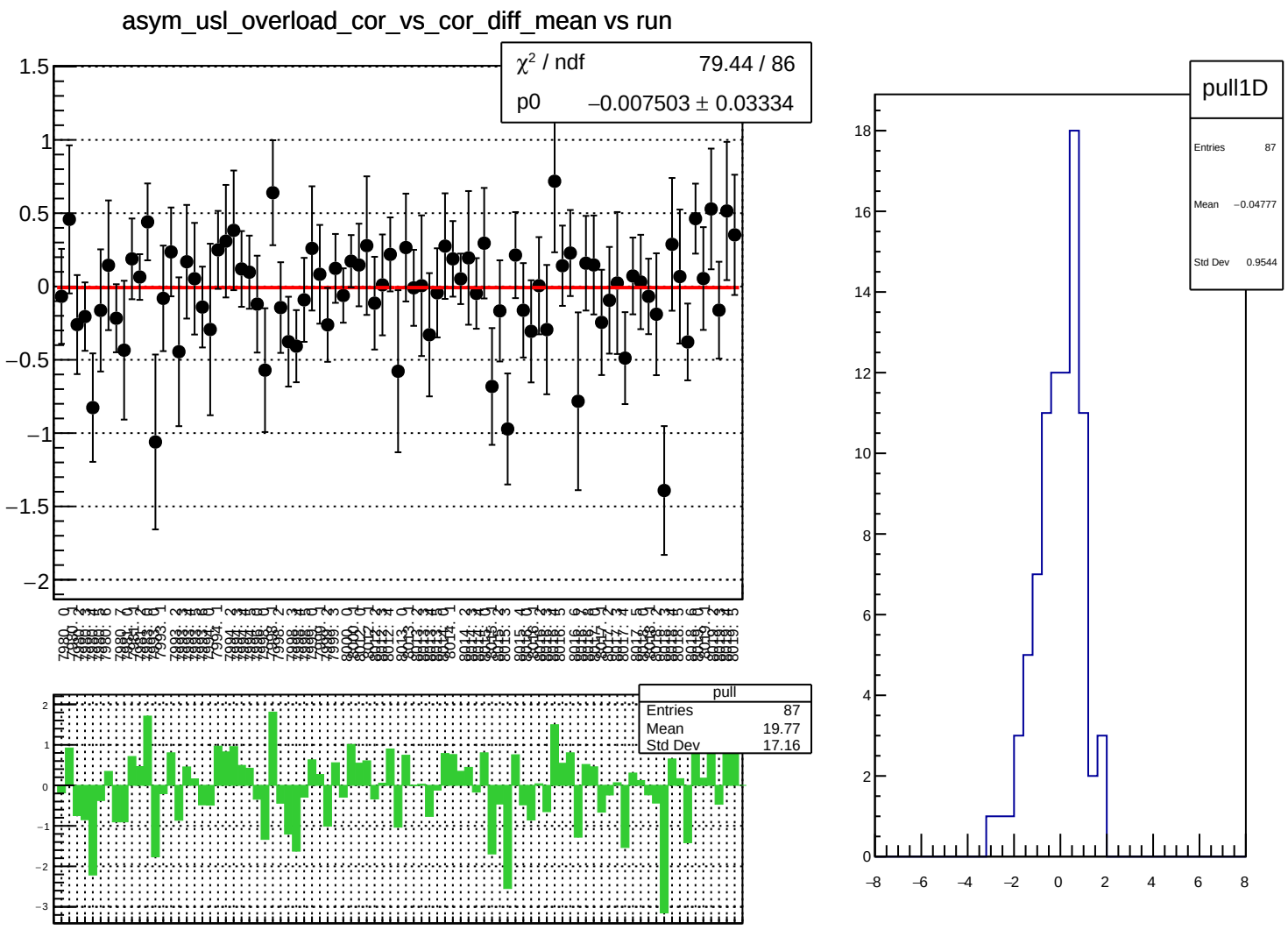

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 100.1 / 86
p0 0.08876 ± 0.06737
pull
Entries 87
Mean 79.7
Std Dev 0
pull1D
Entries 87
Mean 0.01725
Std Dev 1.073

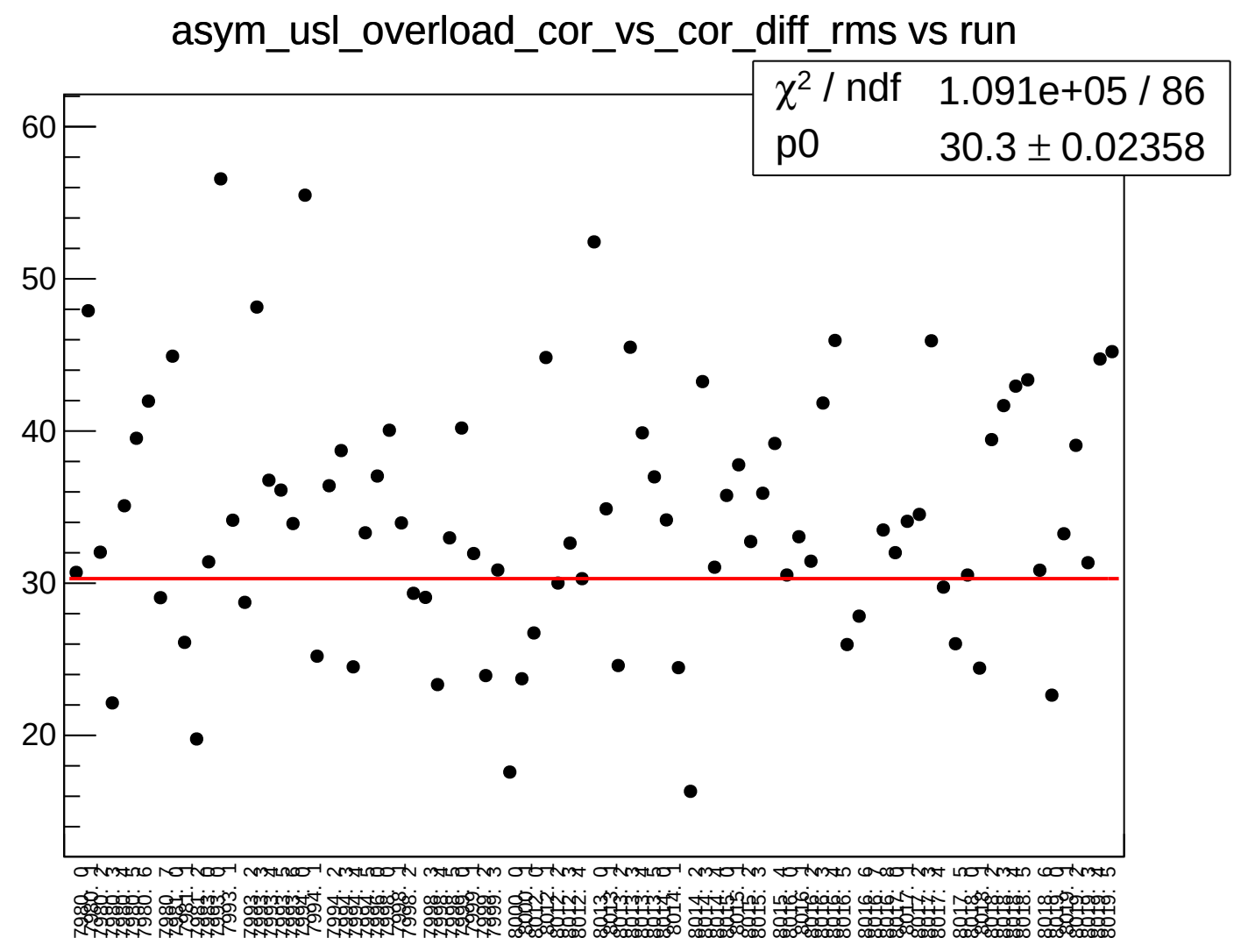

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.226e+05 / 86
p0 60.97 ± 0.04764
300
250
200
150
100
50

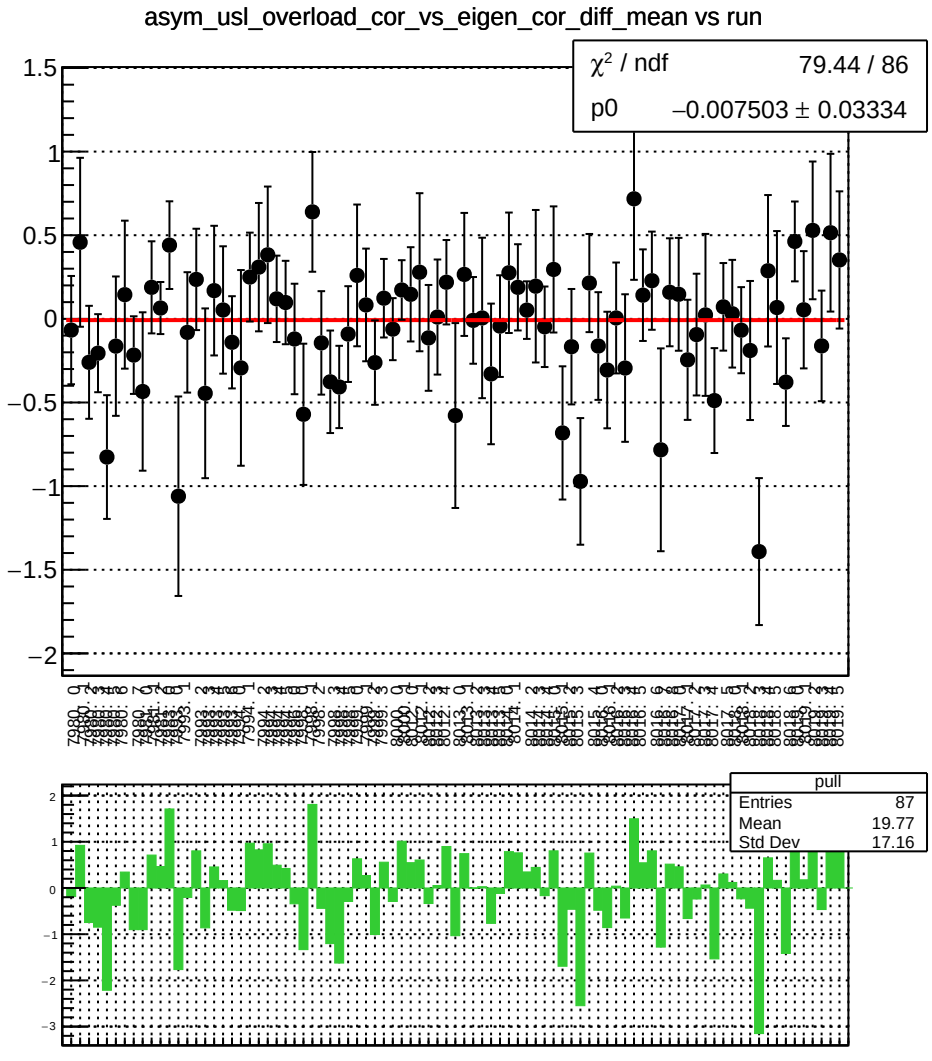

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.48 / 86
p0 6.779e−15 ± 4.999e−14
pull
Entries 87
Mean 69.05
Std Dev 41.99

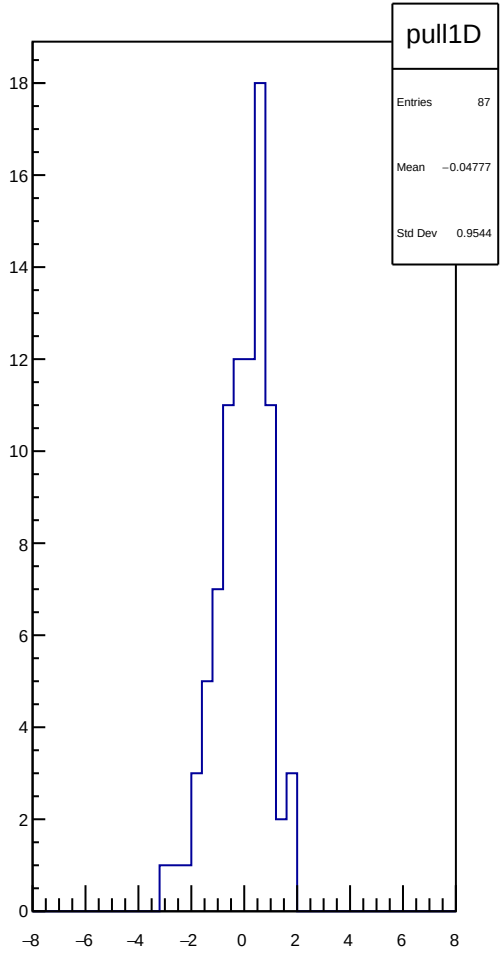

pull1D
Entries 87
Mean −0.04286
Std Dev 0.9054

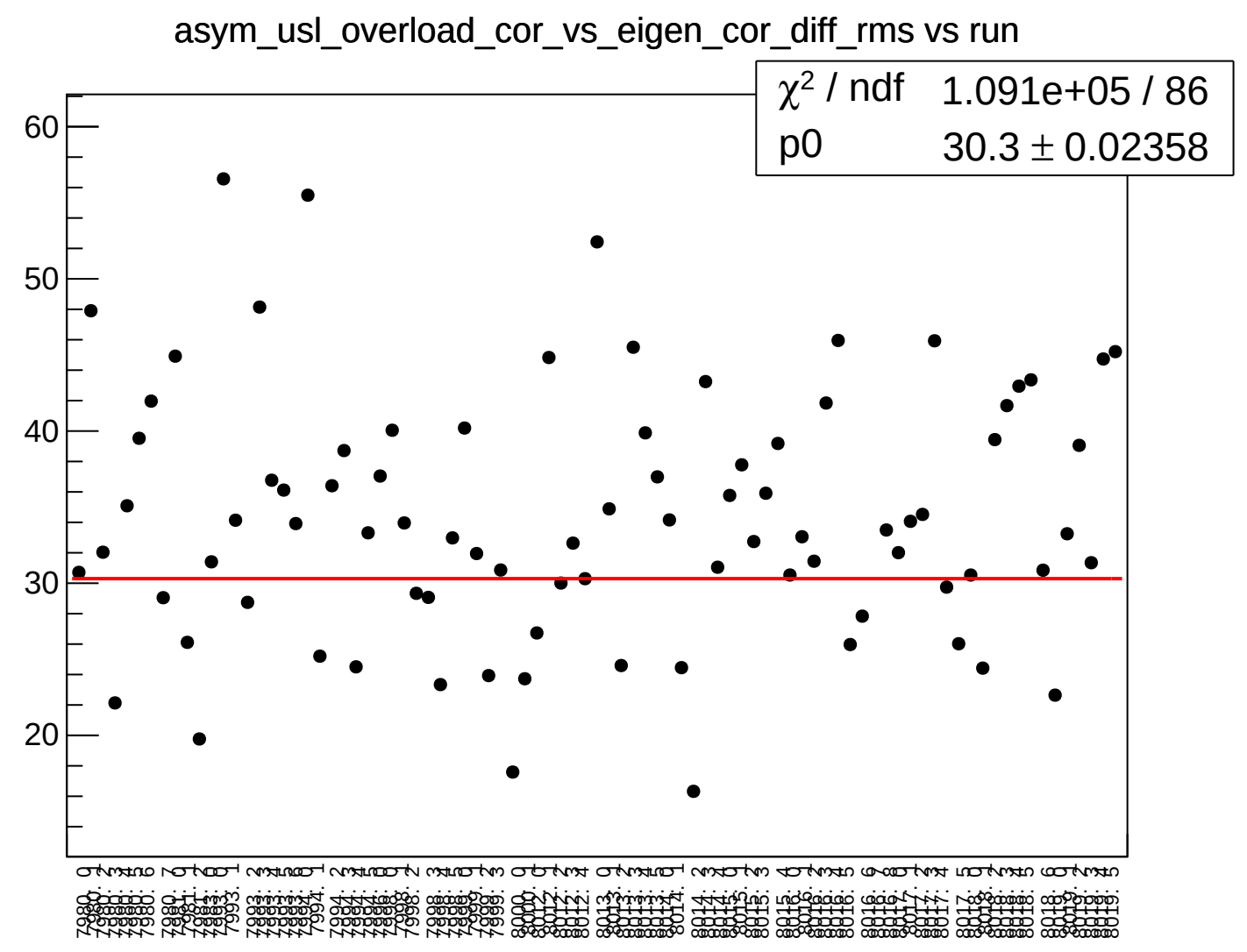

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.057e+06 / 86
p0 2.964e−11 ± 3.535e−14
0.5
0.4
0.3
0.2
0.1

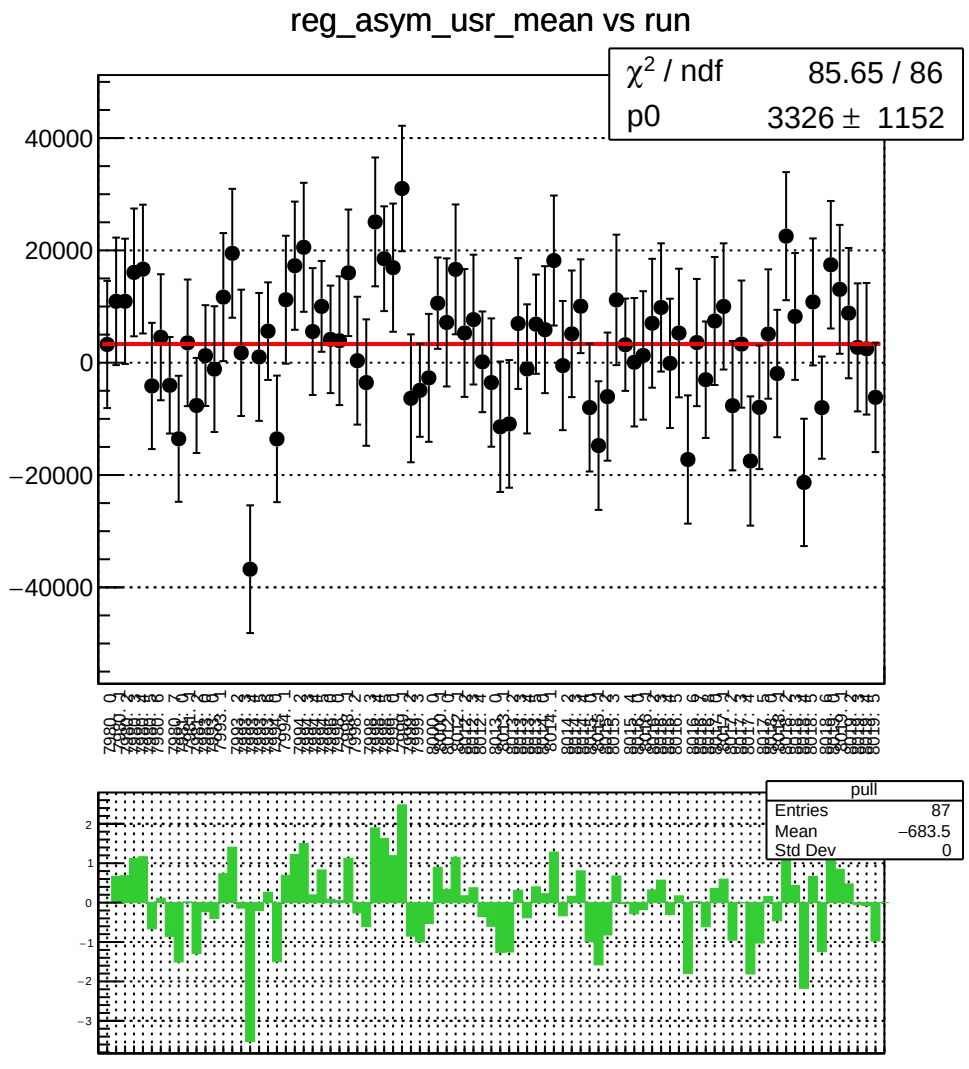

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 79.44 / 86
p0 −0.007503 ± 0.03334
pull
Entries 87
Mean 19.77
Std Dev 17.16
pull1D
Entries 87
Mean −0.04777
Std Dev 0.9544

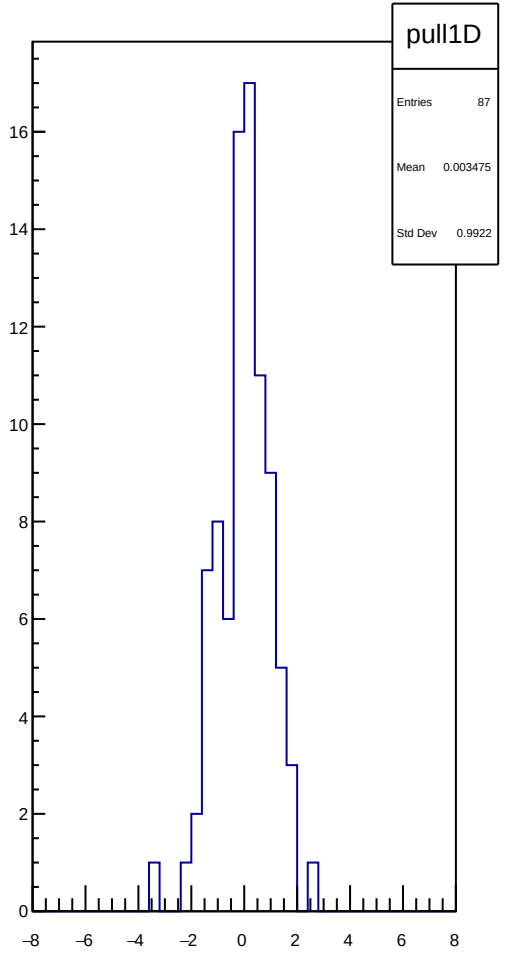

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.091e+05 / 86
p0 30.3 ± 0.02358
60
50
40
30
20

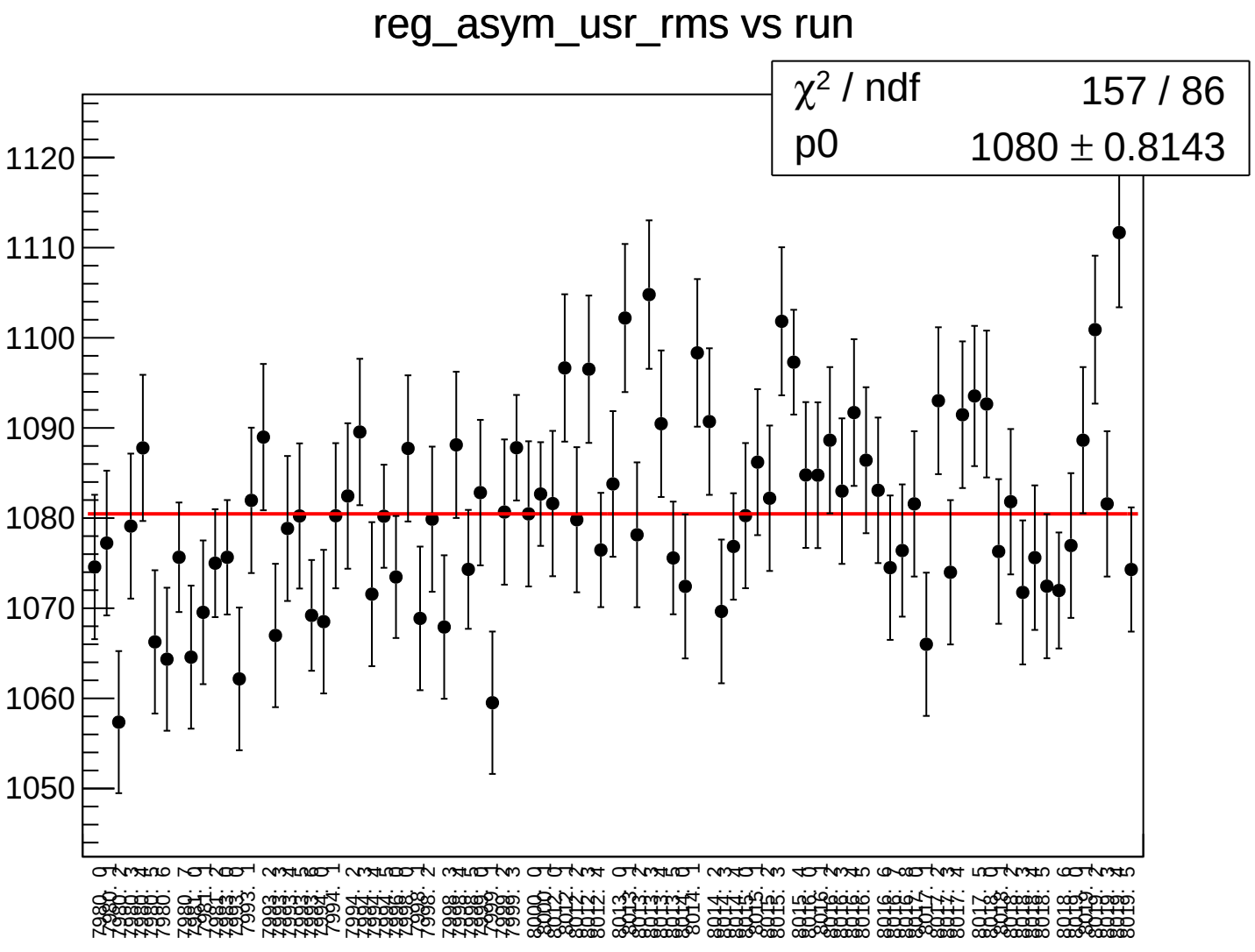

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.44 / 86
p0 −0.007503 ± 0.03334
pull
Entries 87
Mean 19.77
Std Dev 17.16

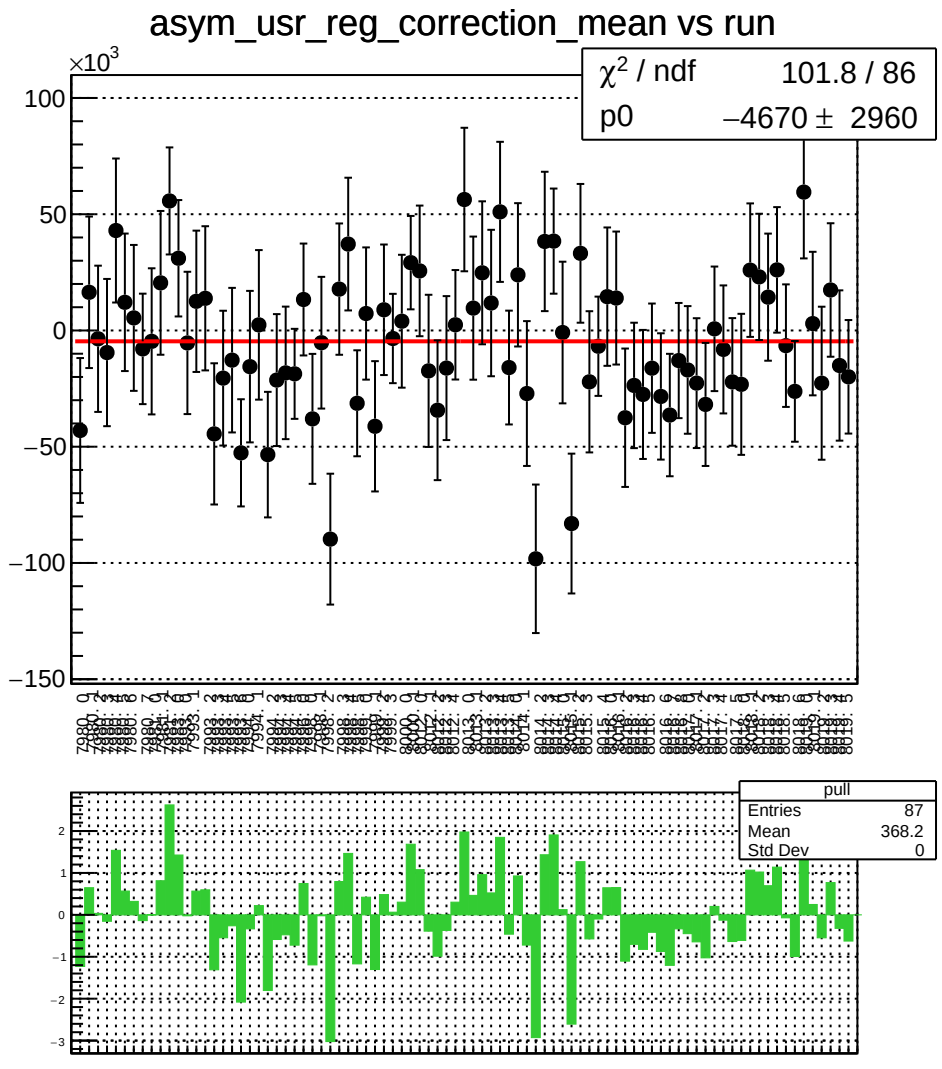

pull1D
Entries 87
Mean −0.04777
Std Dev 0.9544

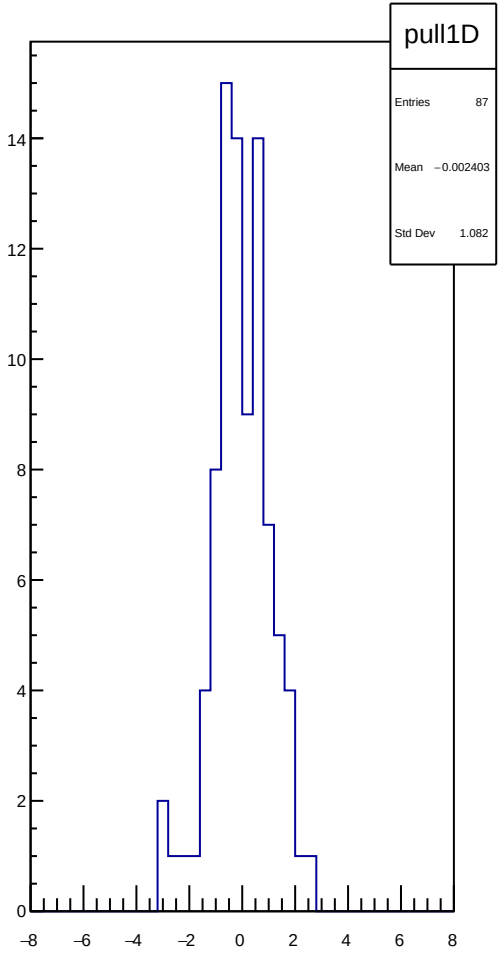

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.091e+05 / 86
p0 30.3 ± 0.02358
60
50
40
30
20

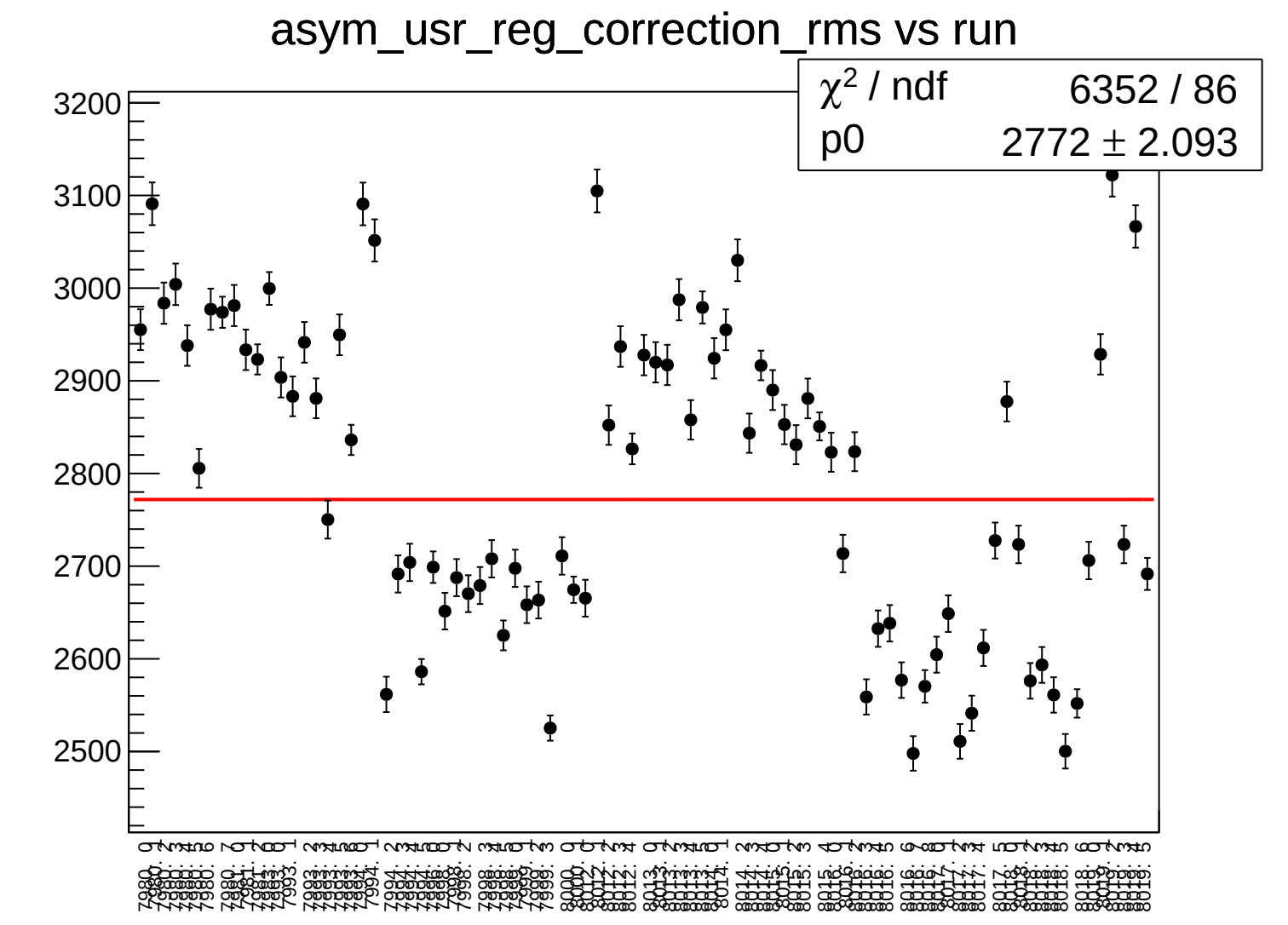

reg_asym_usr_mean vs run
χ² / ndf 85.65 / 86
p0 3326 ± 1152
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −683.5
Std Dev 0
2
1
0
−1
−2
−3

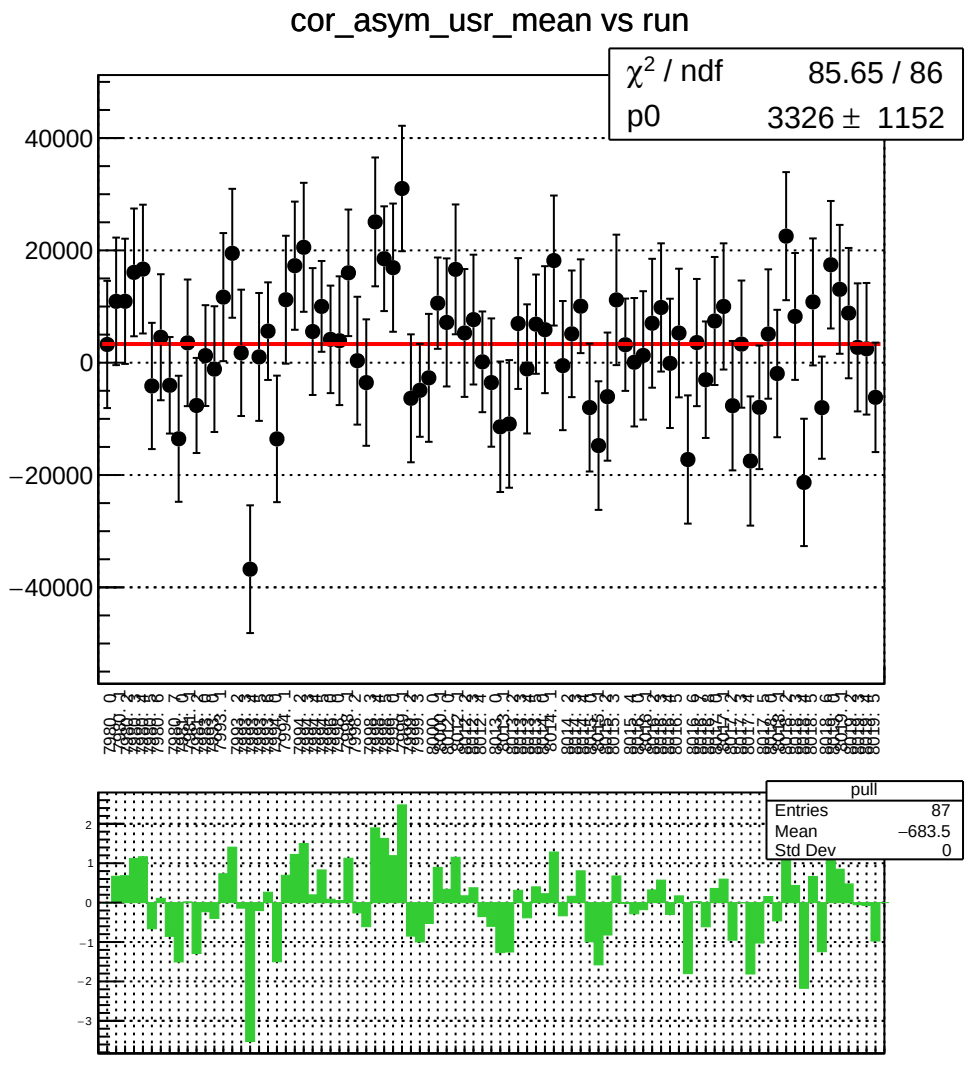

pull1D
Entries 87
Mean 0.003475
Std Dev 0.9922
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

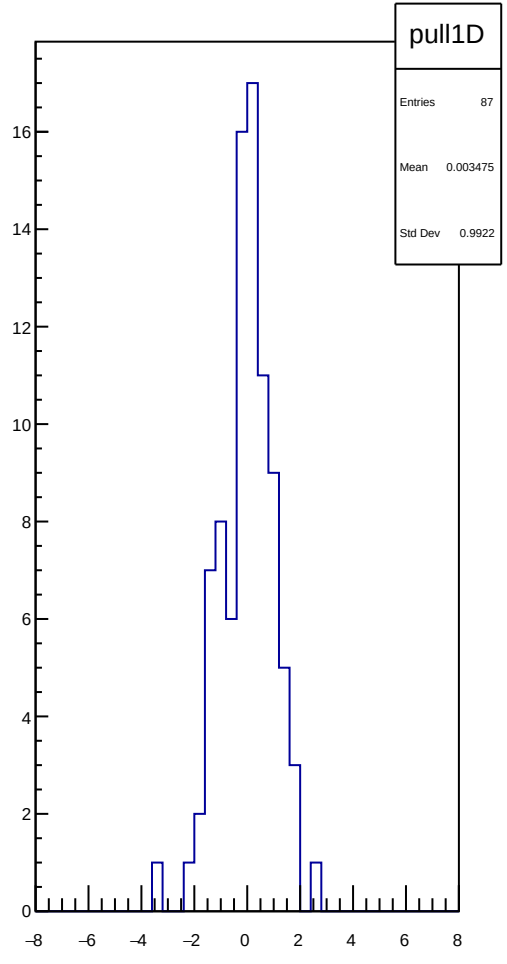

reg_asym_usr_rms vs run
χ² / ndf 157 / 86
p0 1080 ± 0.8143
1120
1110
1100
1090
1080
1070
1060
1050

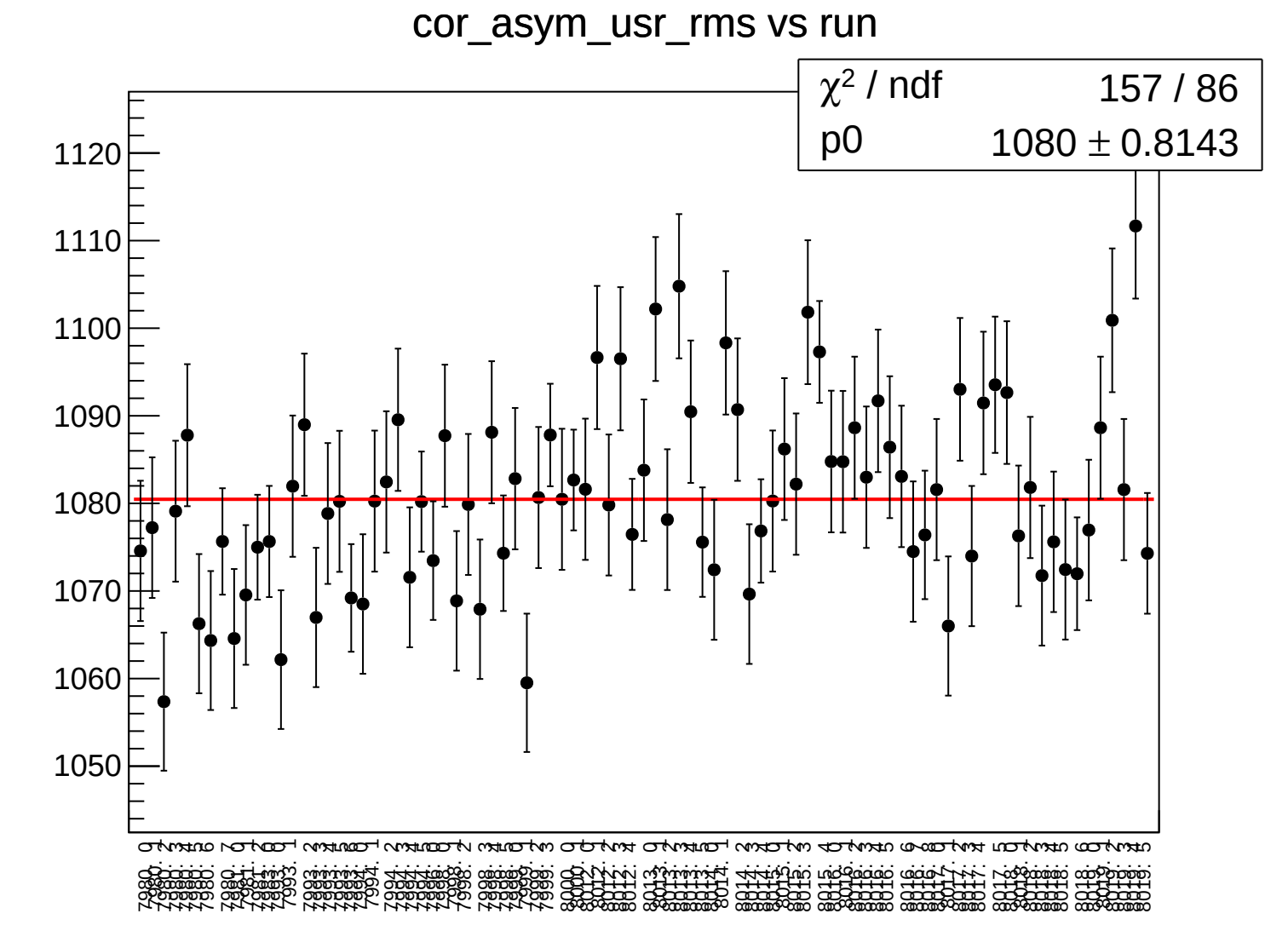

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 101.8 / 86
p0 −4670 ± 2960
100
50
0
−50
−100
−150
pull
Entries 87
Mean 368.2
Std Dev 0
2
1
0
−1
−2
−3

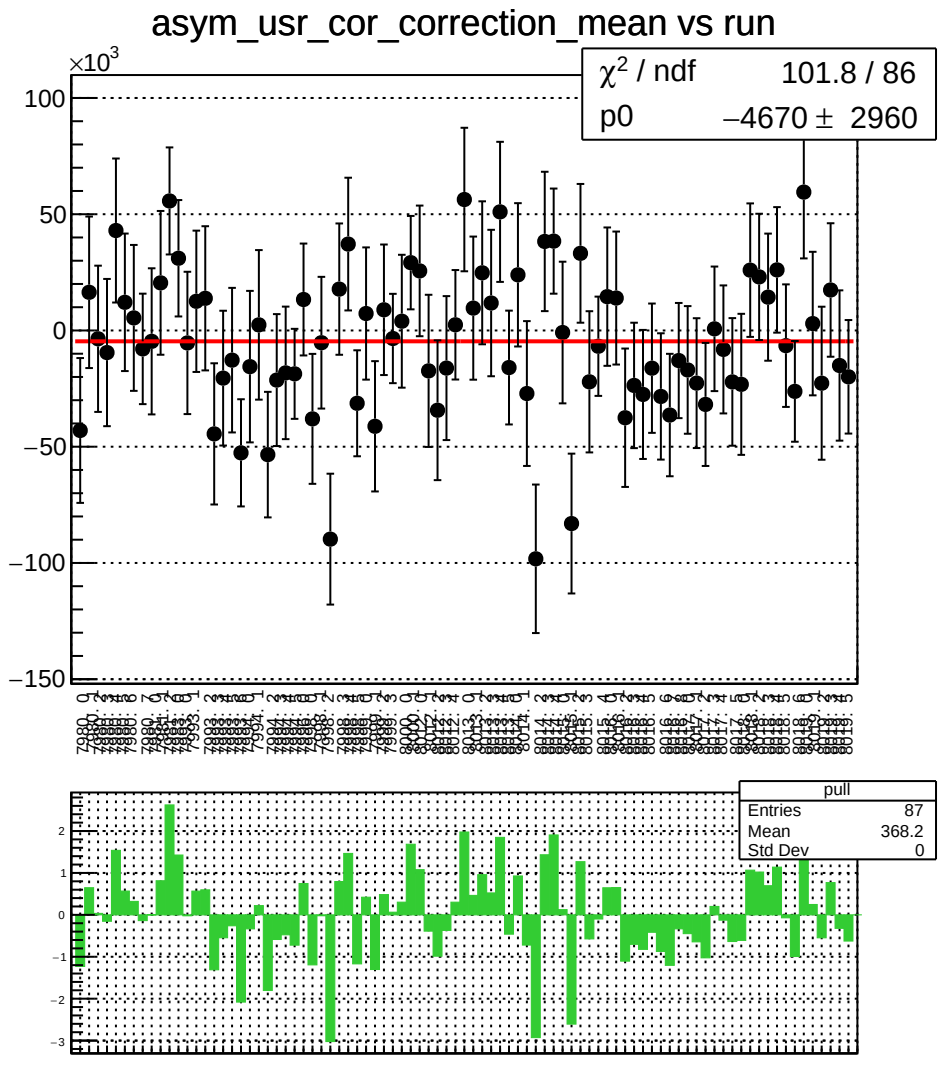

pull1D
Entries 87
Mean −0.002403
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

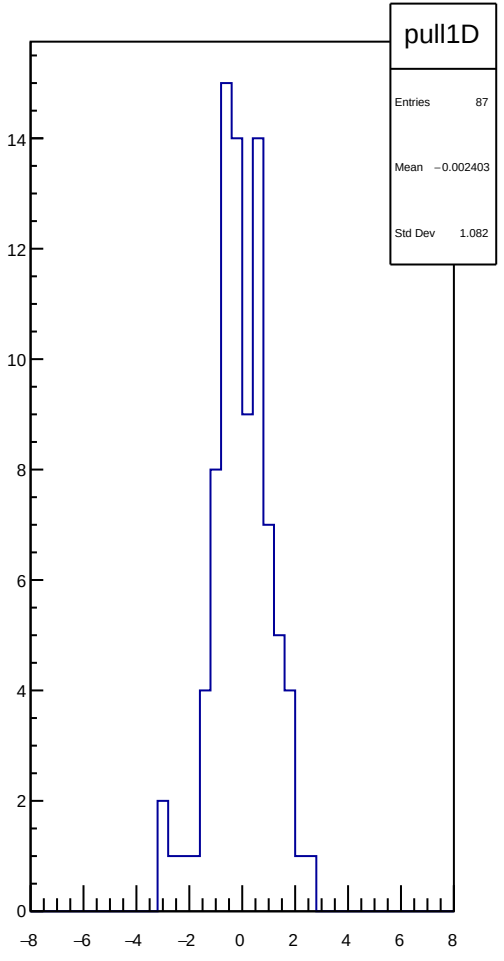

asym_usr_reg_correction_rms vs run
χ² / ndf 6352 / 86
p0 2772 ± 2.093
3200
3100
3000
2900
2800
2700
2600
2500

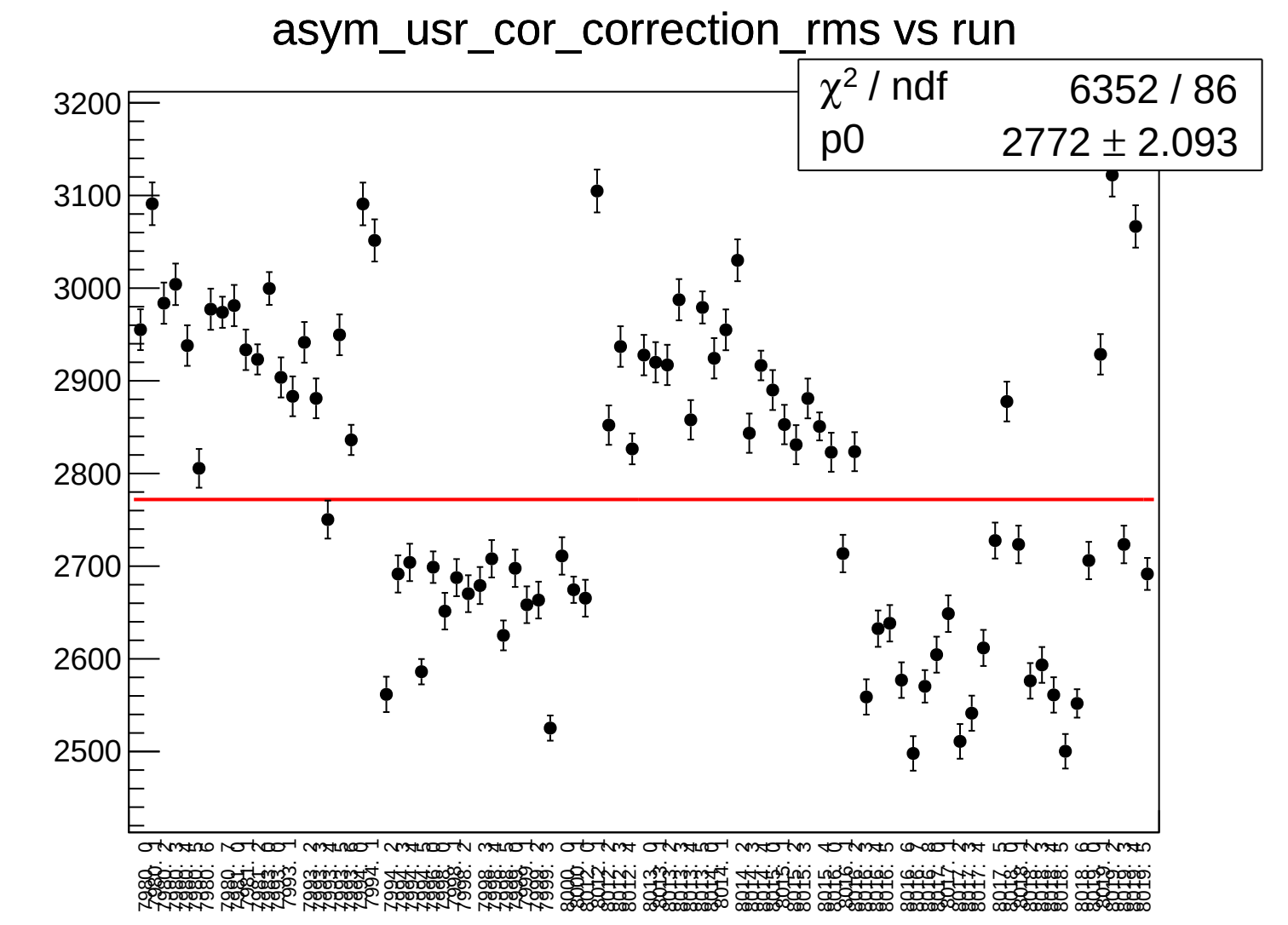

cor_asym_usr_mean vs run
χ² / ndf 85.65 / 86
p0 3326 ± 1152
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −683.5
Std Dev 0
2
1
0
−1
−2
−3

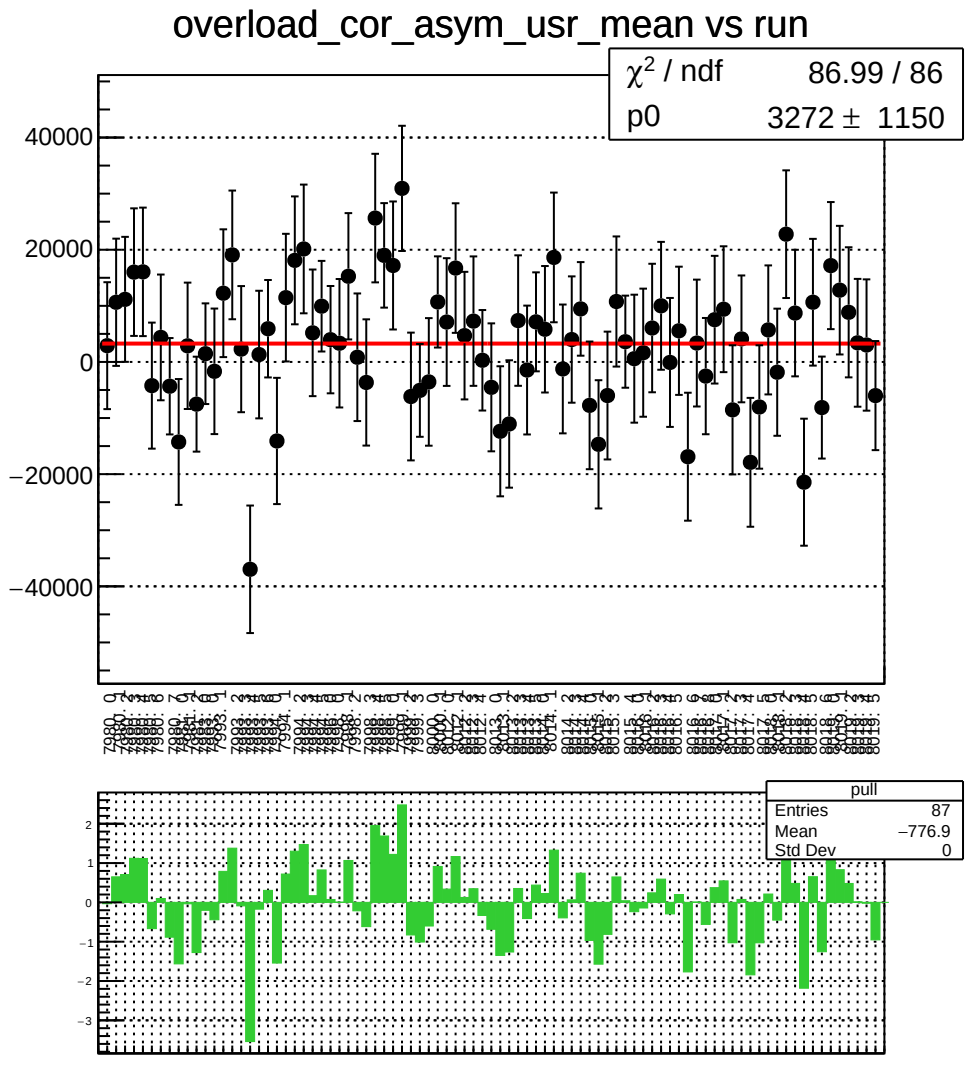

pull1D
Entries 87
Mean 0.003475
Std Dev 0.9922
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

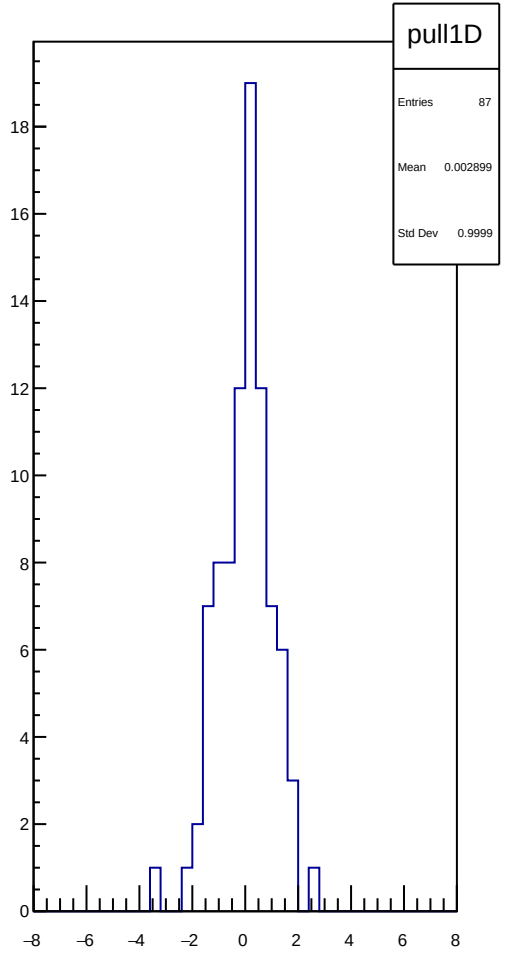

cor_asym_usr_rms vs run
χ² / ndf 157 / 86
p0 1080 ± 0.8143
1120
1110
1100
1090
1080
1070
1060
1050

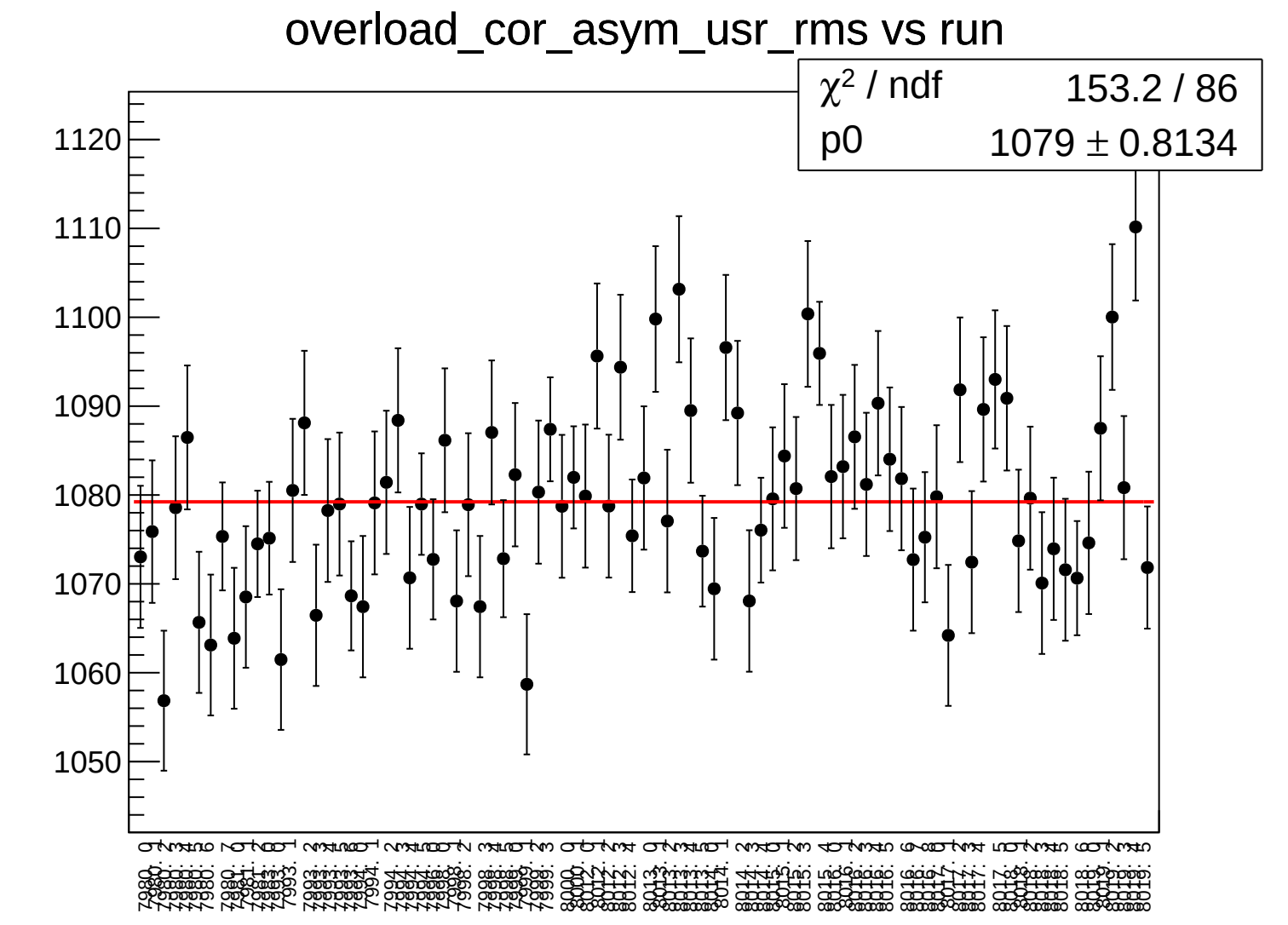

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 101.8 / 86
p0 −4670 ± 2960
100
50
0
−50
−100
−150
pull
Entries 87
Mean 368.2
Std Dev 0
2
1
0
−1
−2
−3

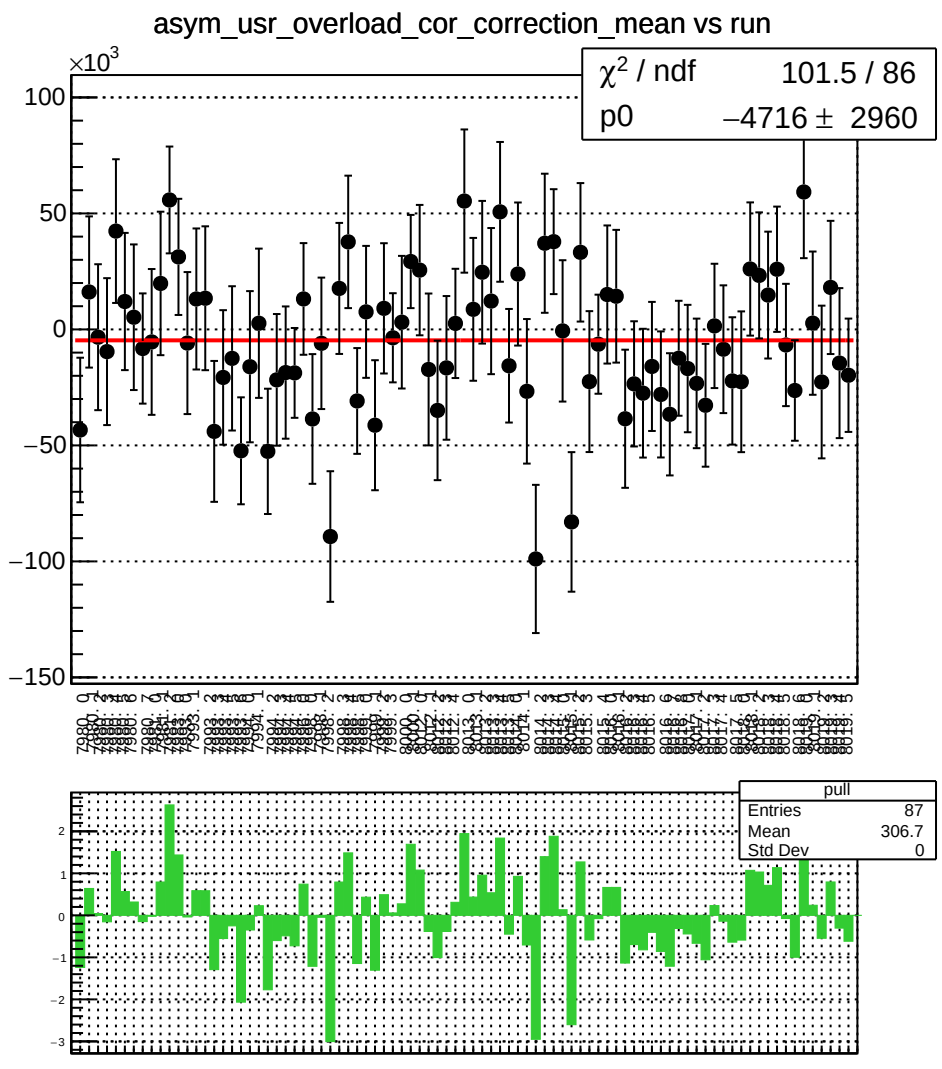

pull1D
Entries 87
Mean −0.002403
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

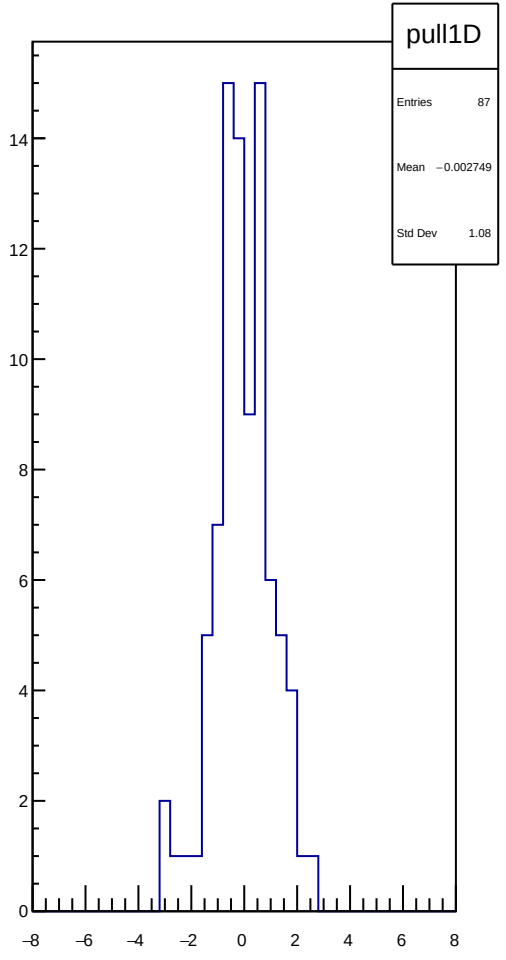

asym_usr_cor_correction_rms vs run
χ² / ndf 6352 / 86
p0 2772 ± 2.093
3200
3100
3000
2900
2800
2700
2600
2500

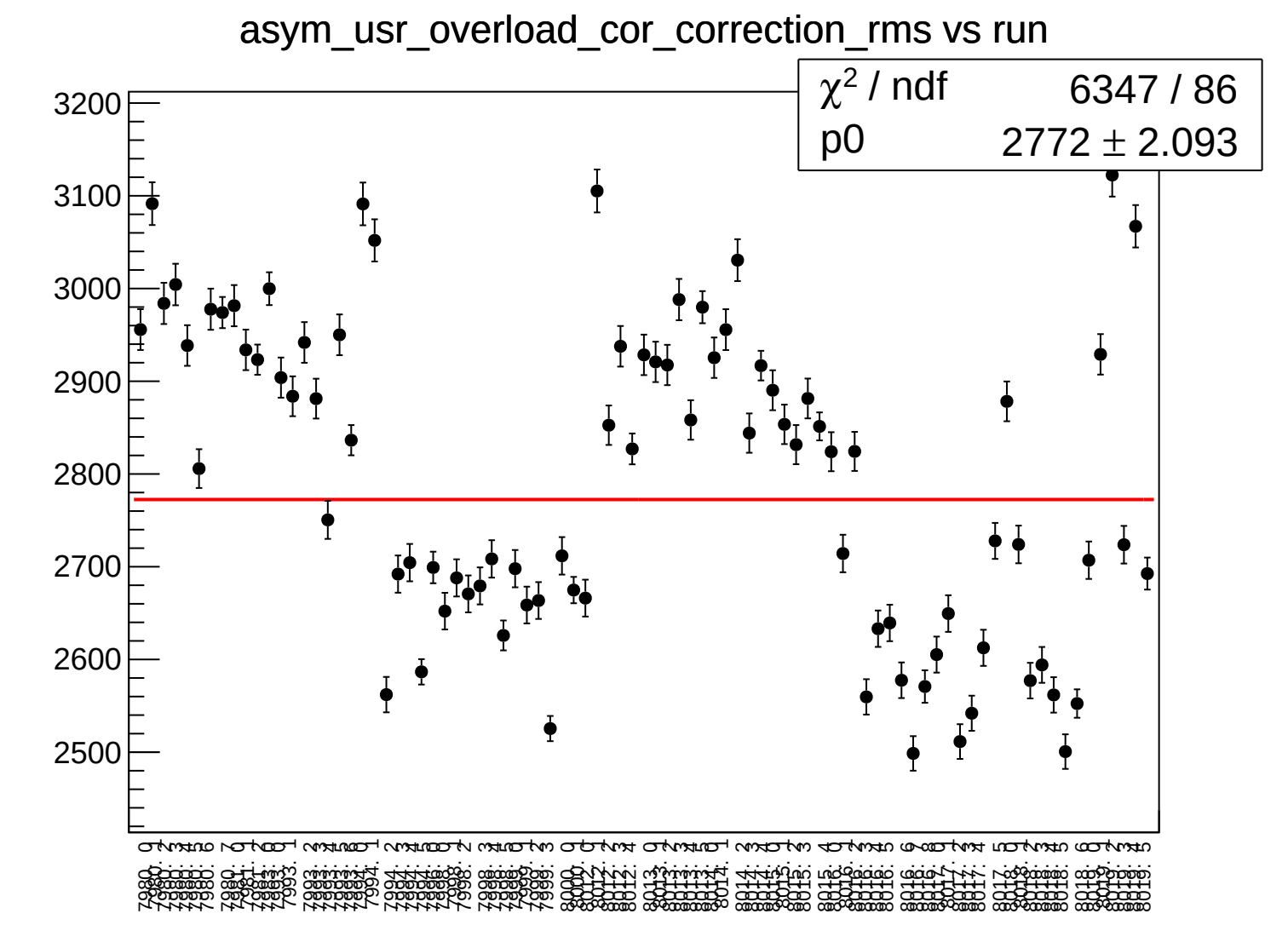

overload_cor_asym_usr_mean vs run
χ² / ndf 86.99 / 86
p0 3272 ± 1150
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −776.9
Std Dev 0
2
1
0
−1
−2
−3

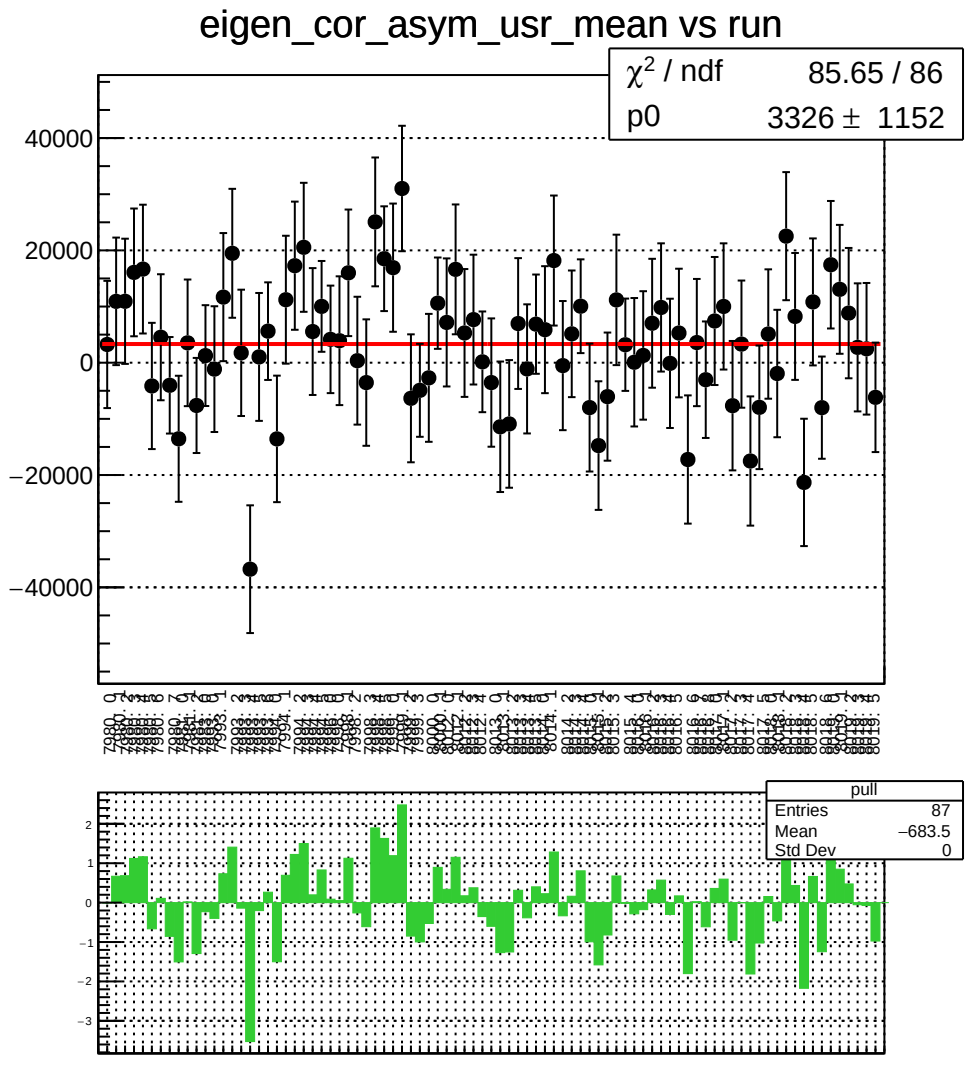

pull1D
Entries 87
Mean 0.002899
Std Dev 0.9999
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

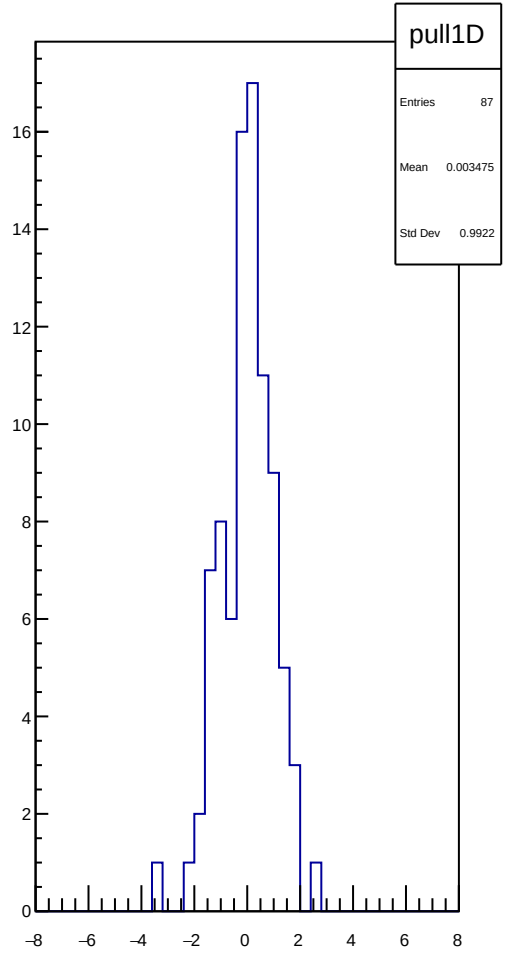

overload_cor_asym_usr_rms vs run
χ² / ndf 153.2 / 86
p0 1079 ± 0.8134
1120
1110
1100
1090
1080
1070
1060
1050

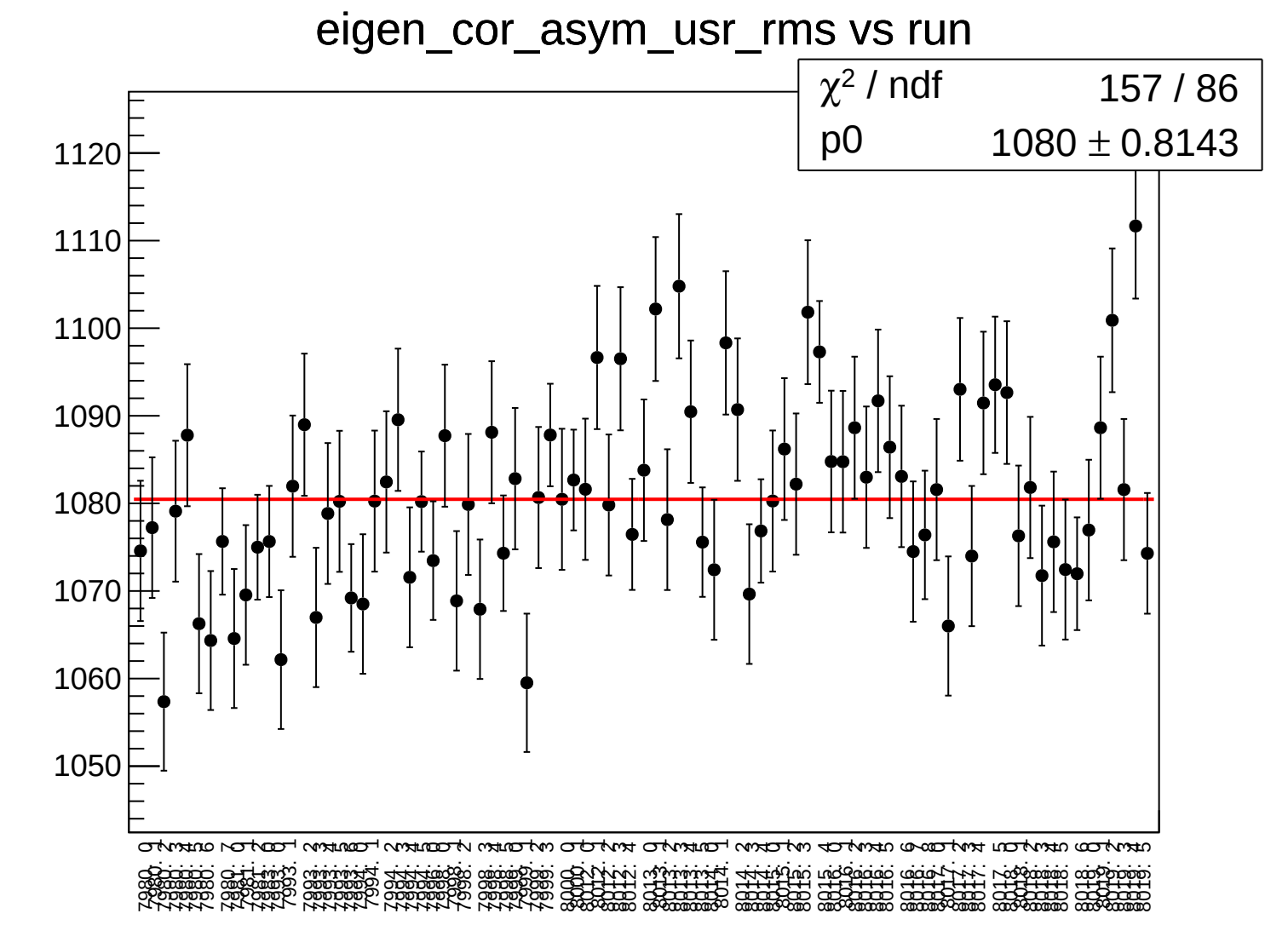

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 101.5 / 86
p0 −4716 ± 2960
100
50
0
−50
−100
−150
pull
Entries 87
Mean 306.7
Std Dev 0
2
1
0
−1
−2
−3

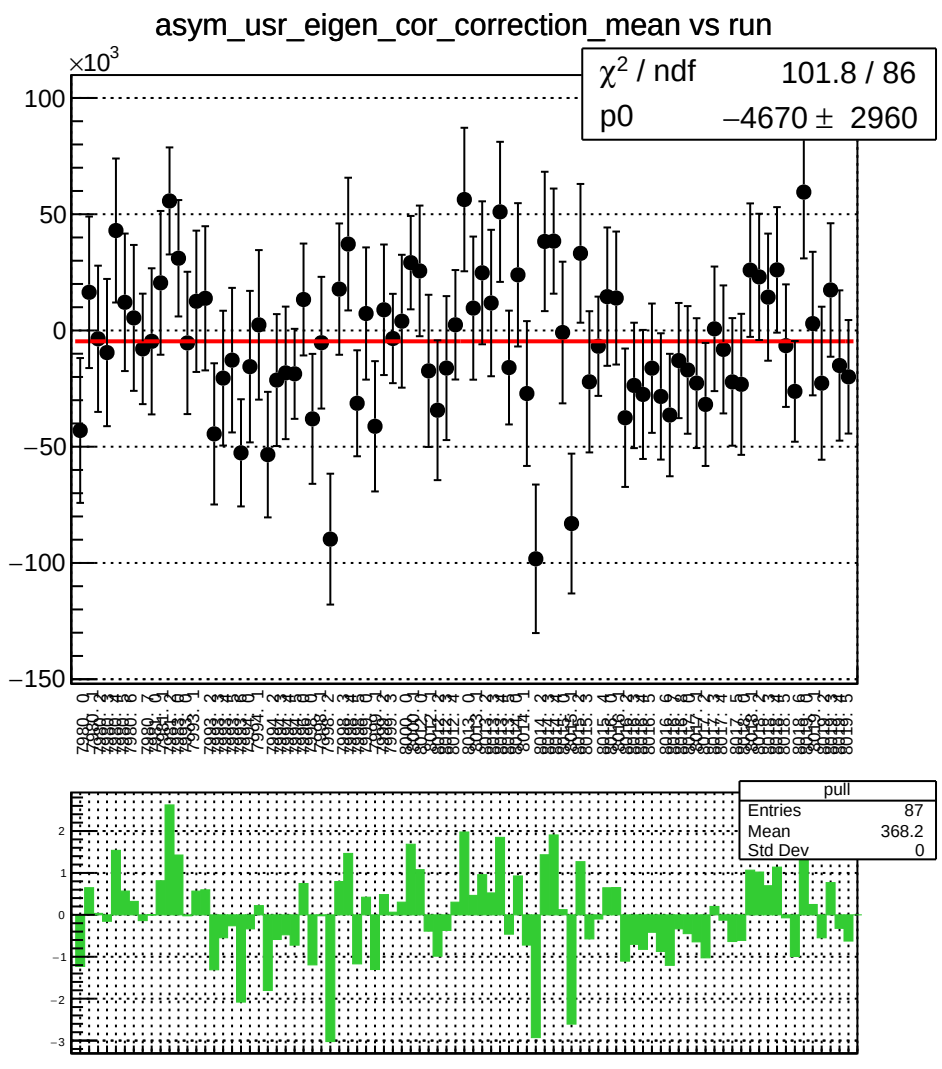

pull1D
Entries 87
Mean −0.002749
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

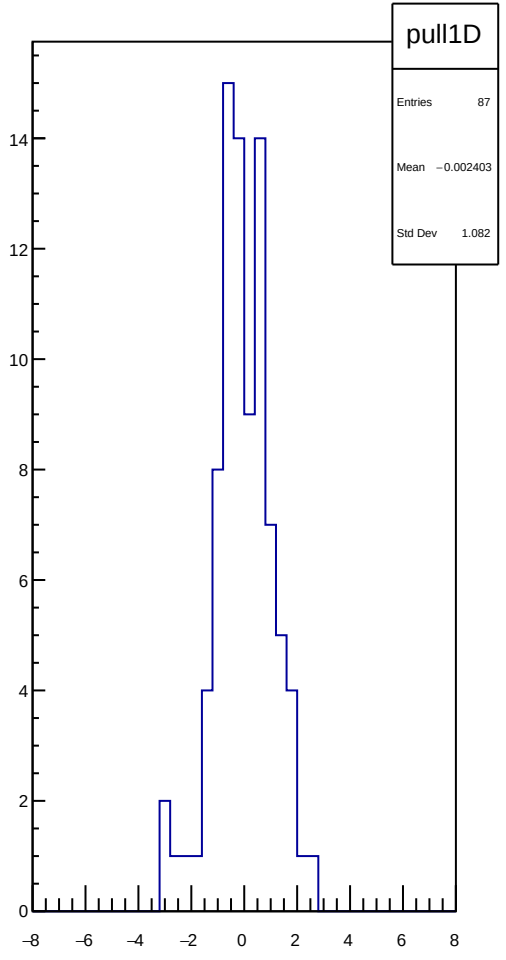

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 6347 / 86
p0 2772 ± 2.093
3200
3100
3000
2900
2800
2700
2600
2500

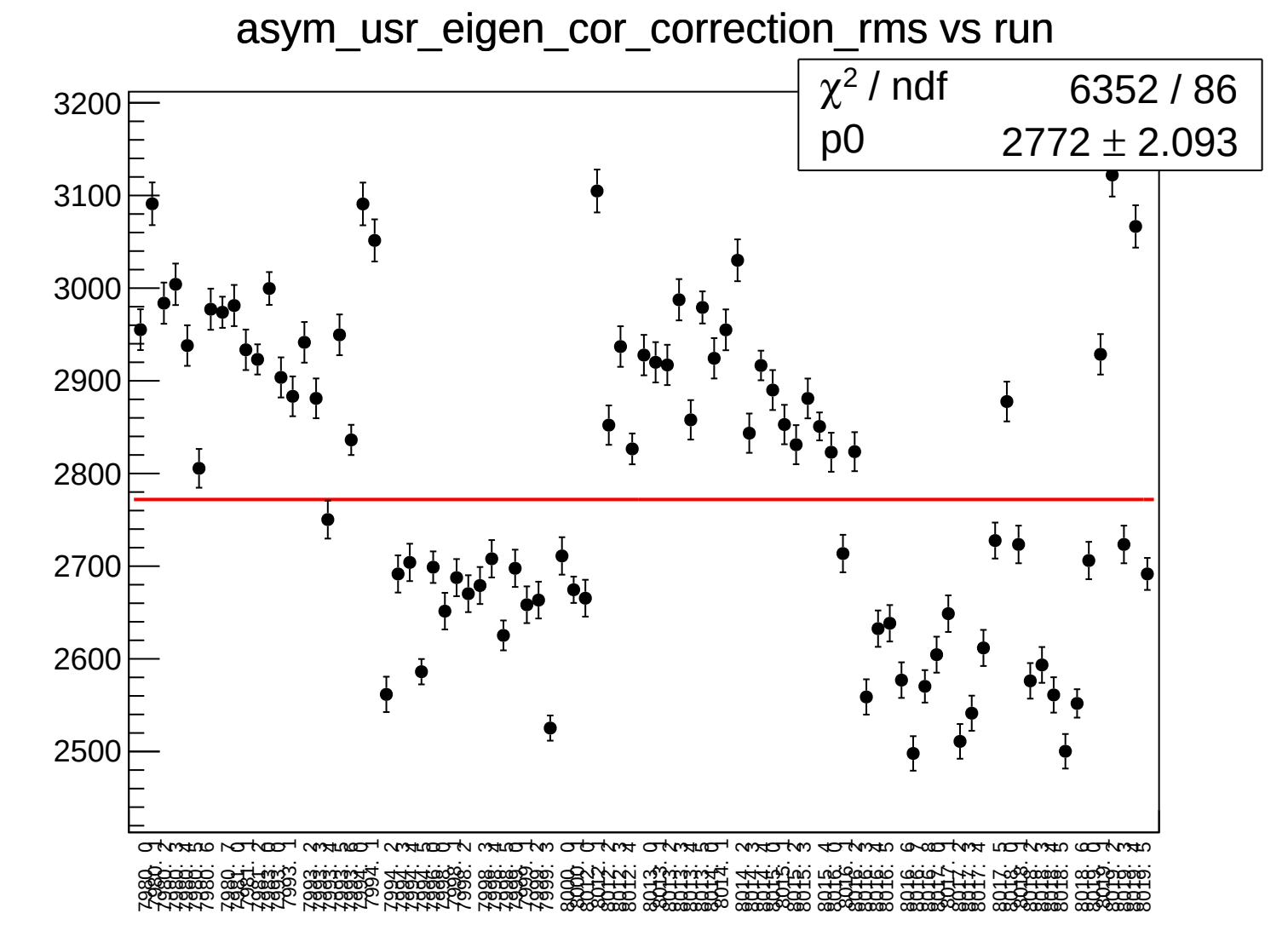

eigen_cor_asym_usr_mean vs run
χ² / ndf 85.65 / 86
p0 3326 ± 1152
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −683.5
Std Dev 0
2
1
0
−1
−2
−3

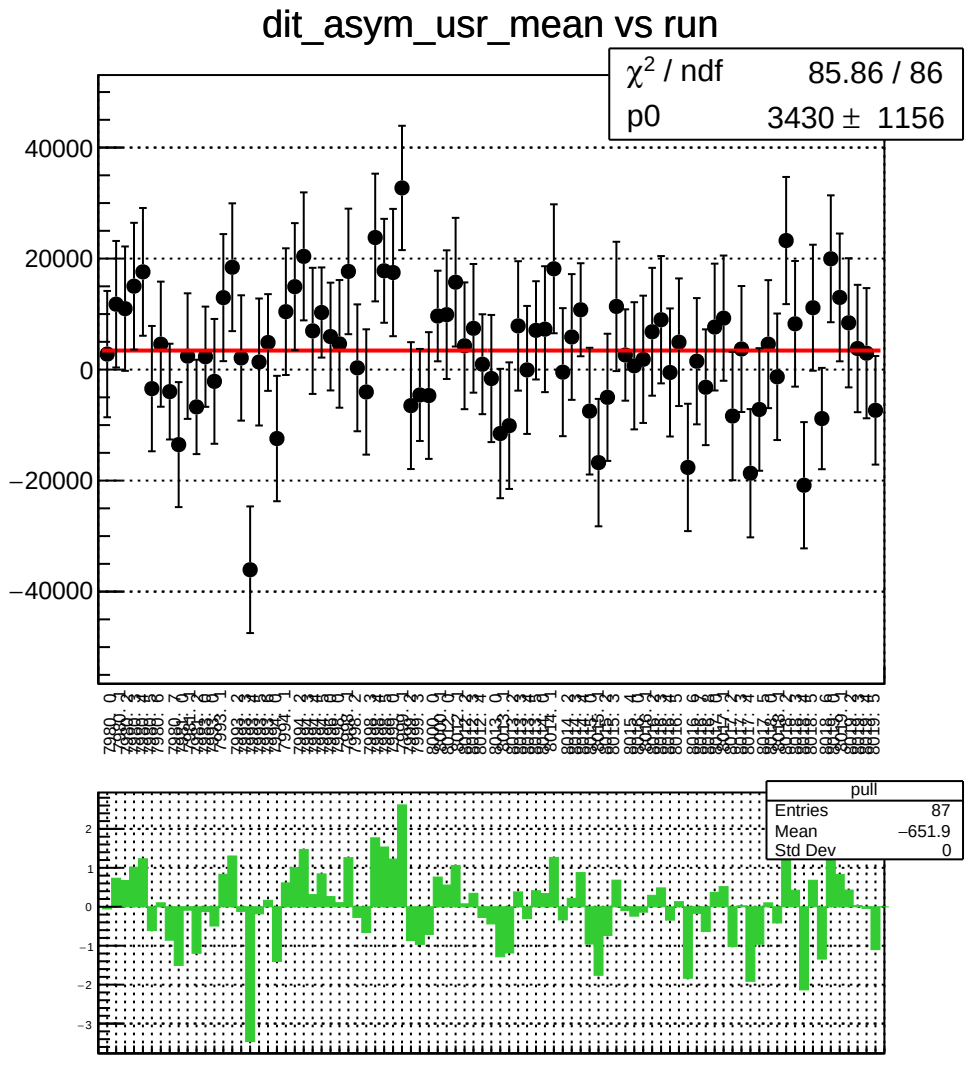

pull1D
Entries 87
Mean 0.003475
Std Dev 0.9922
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

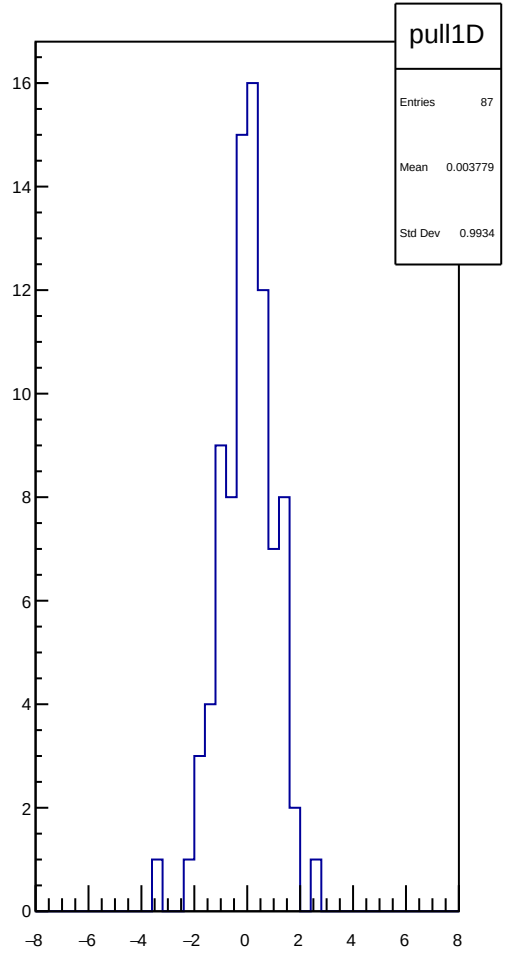

eigen_cor_asym_usr_rms vs run
χ² / ndf 157 / 86
p0 1080 ± 0.8143
1120
1110
1100
1090
1080
1070
1060
1050

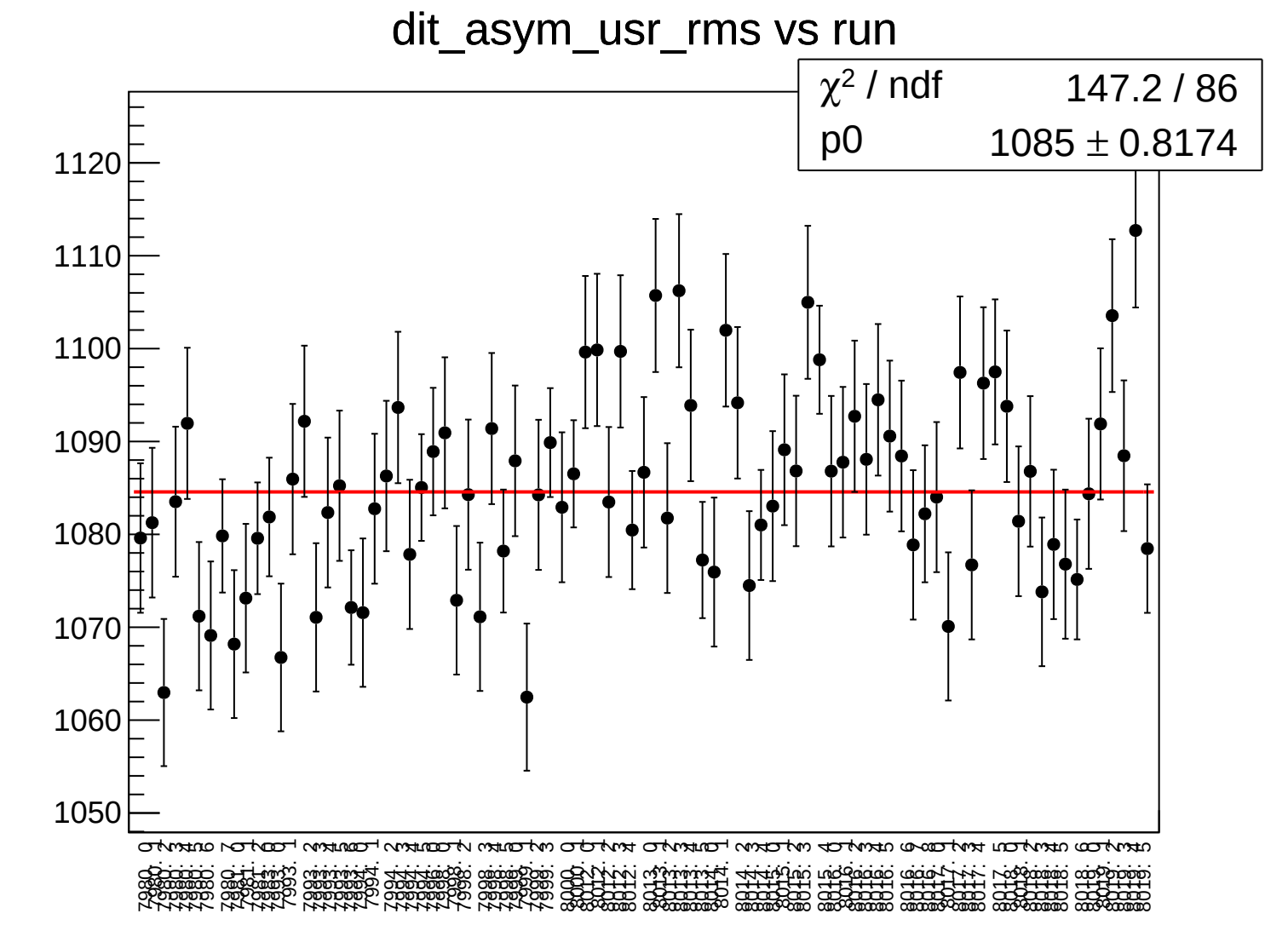

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.8 / 86
p0 −4670 ± 2960
100
50
0
−50
−100
−150
pull
Entries 87
Mean 368.2
Std Dev 0
2
1
0
−1
−2
−3

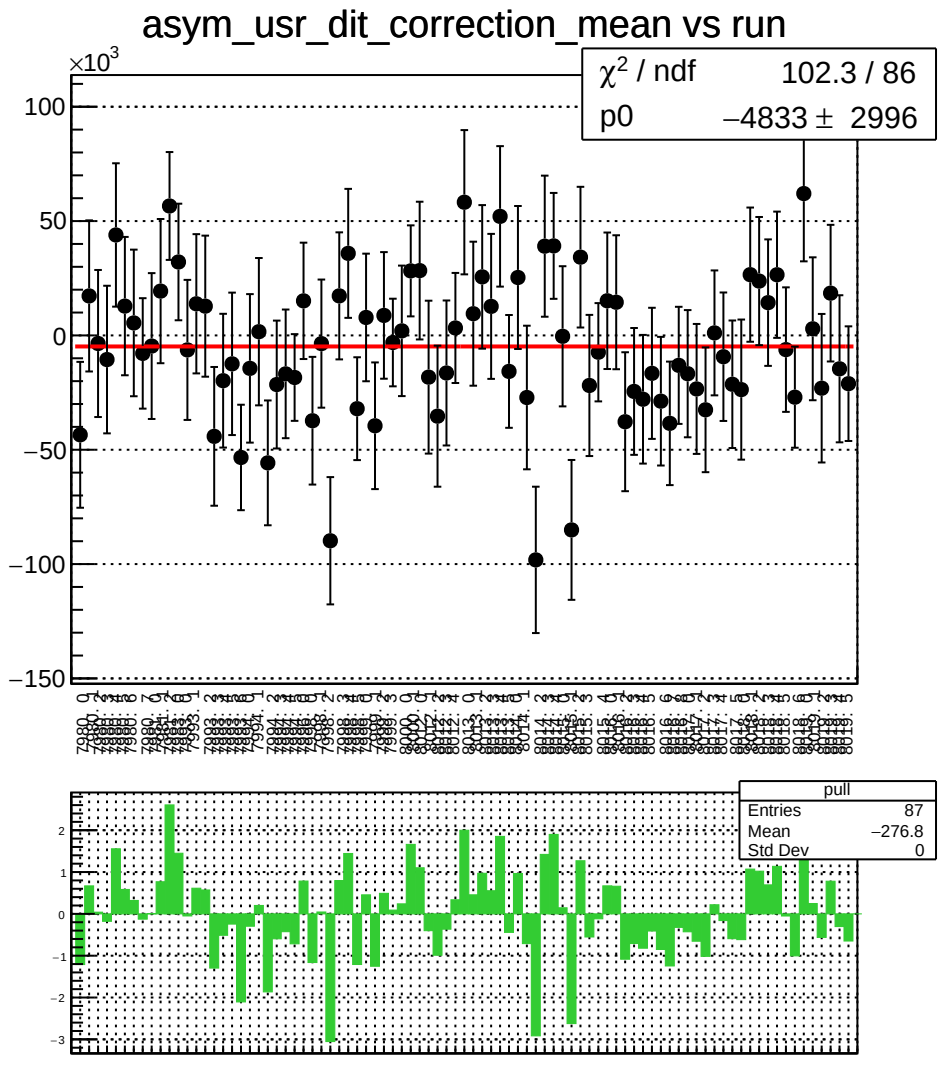

pull1D
Entries 87
Mean −0.002403
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

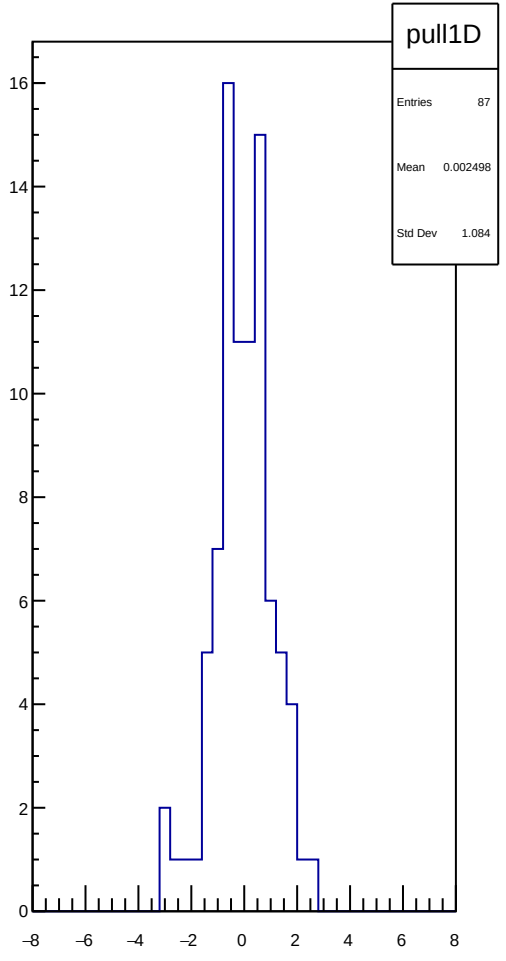

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 6352 / 86
p0 2772 ± 2.093
3200
3100
3000
2900
2800
2700
2600
2500

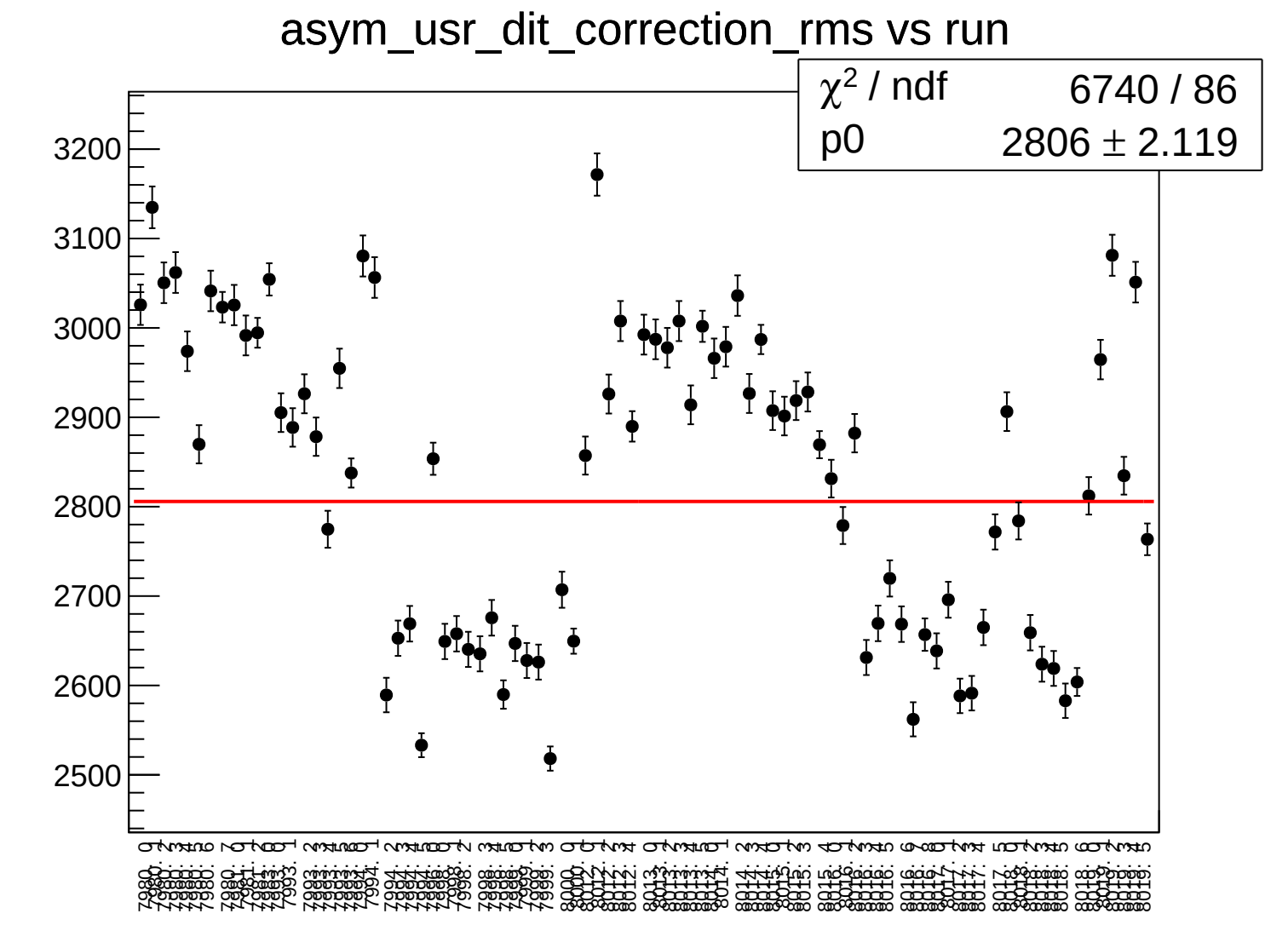

dit_asym_usr_mean vs run
χ² / ndf 85.86 / 86
p0 3430 ± 1156
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −651.9
Std Dev 0
2
1
0
−1
−2
−3

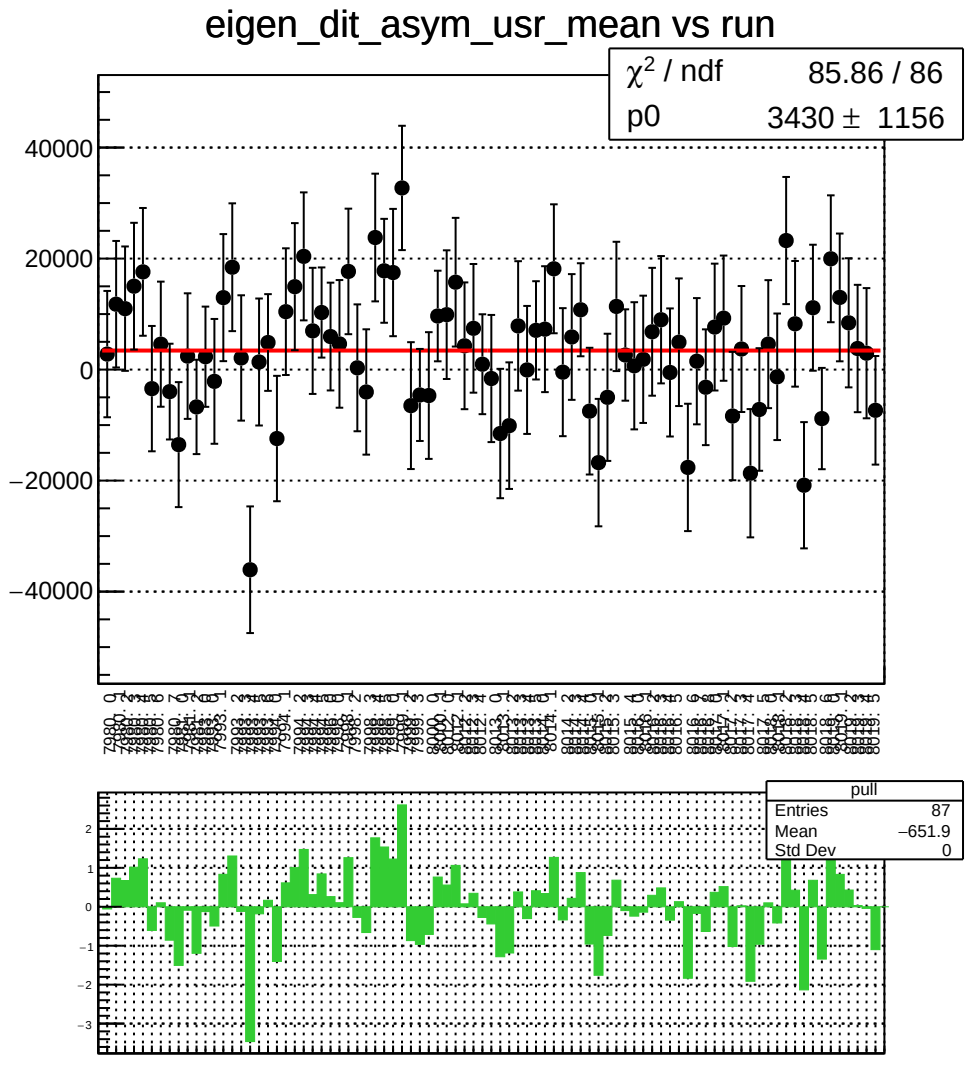

pull1D
Entries 87
Mean 0.003779
Std Dev 0.9934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

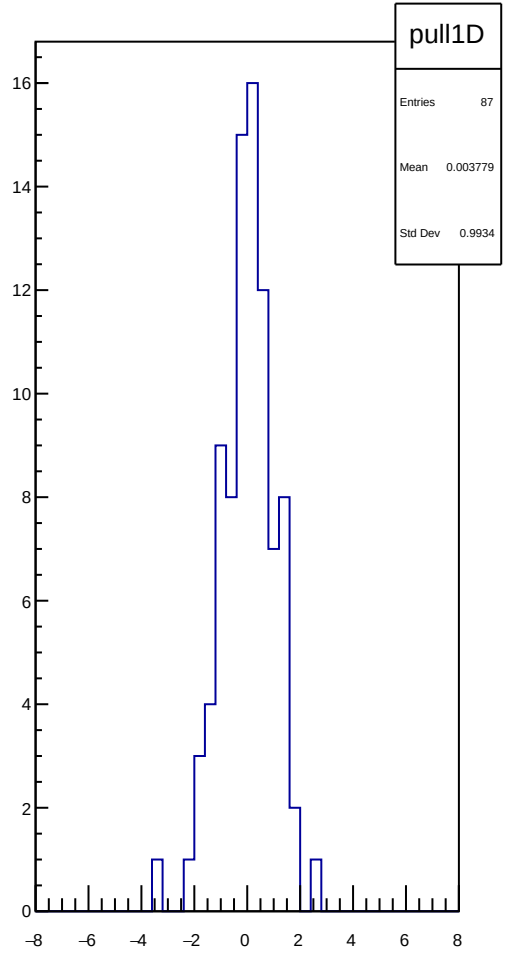

dit_asym_usr_rms vs run
χ² / ndf 147.2 / 86
p0 1085 ± 0.8174
1120
1110
1100
1090
1080
1070
1060
1050

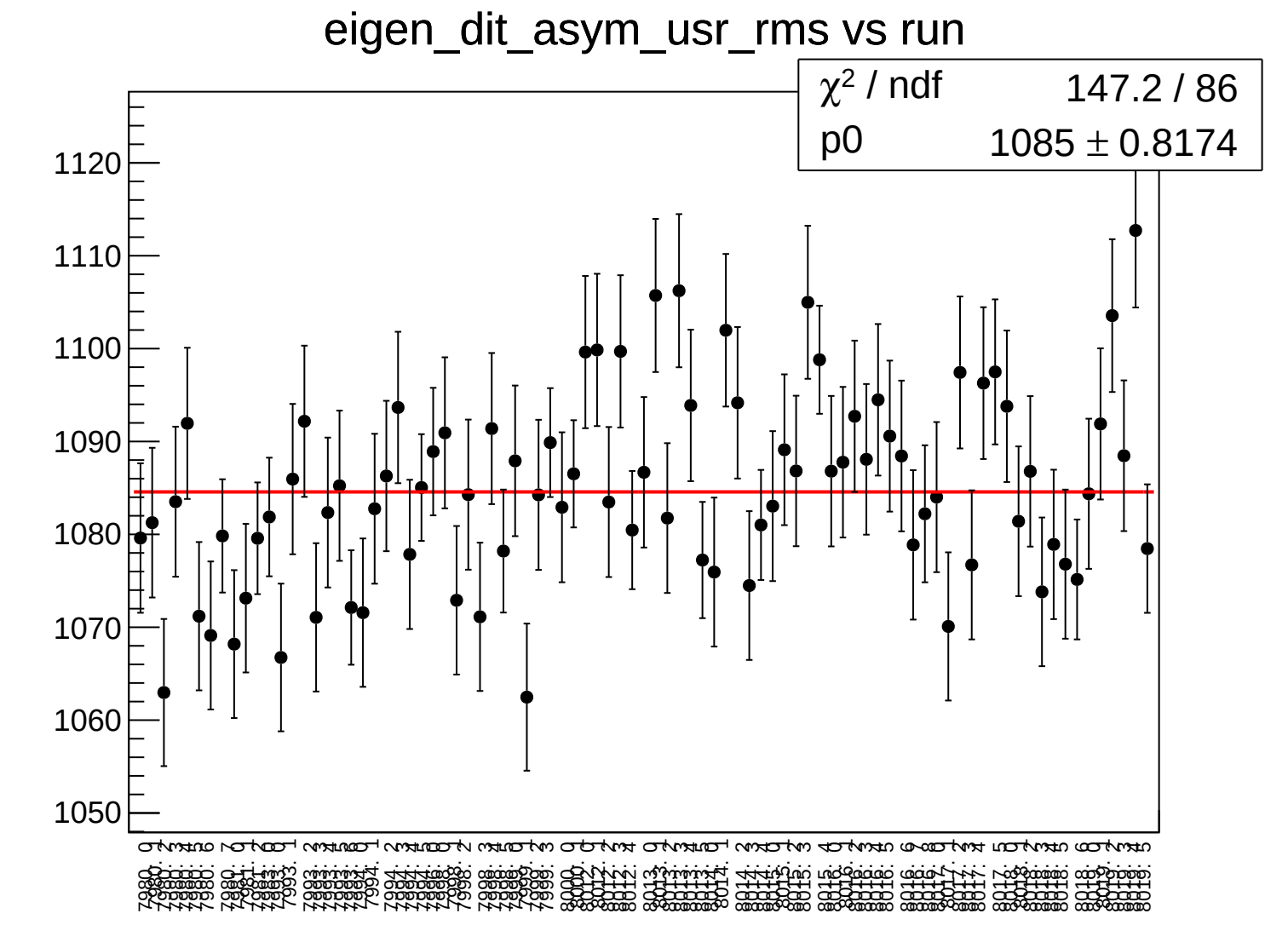

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 102.3 / 86
p0 −4833 ± 2996
100
50
0
−50
−100
−150
pull
Entries 87
Mean −276.8
Std Dev 0
2
1
0
−1
−2
−3

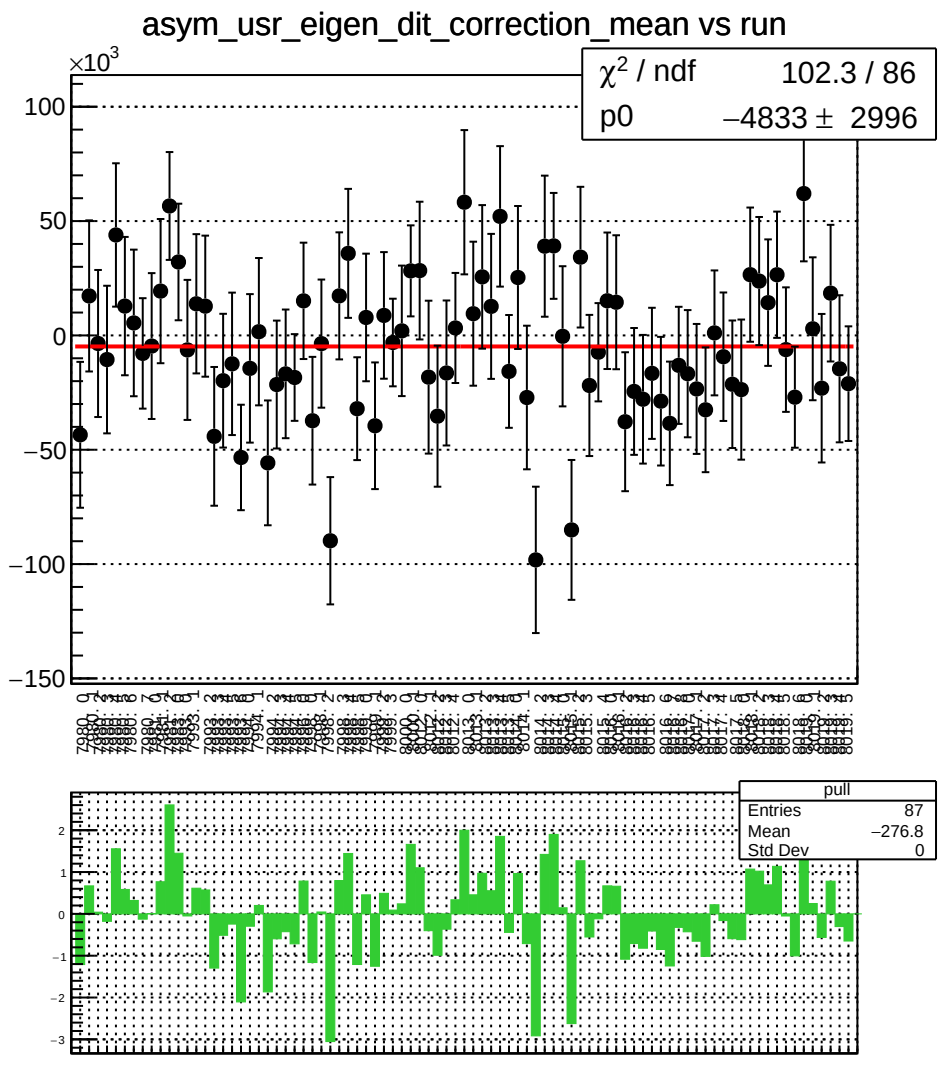

pull1D
Entries 87
Mean 0.002498
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

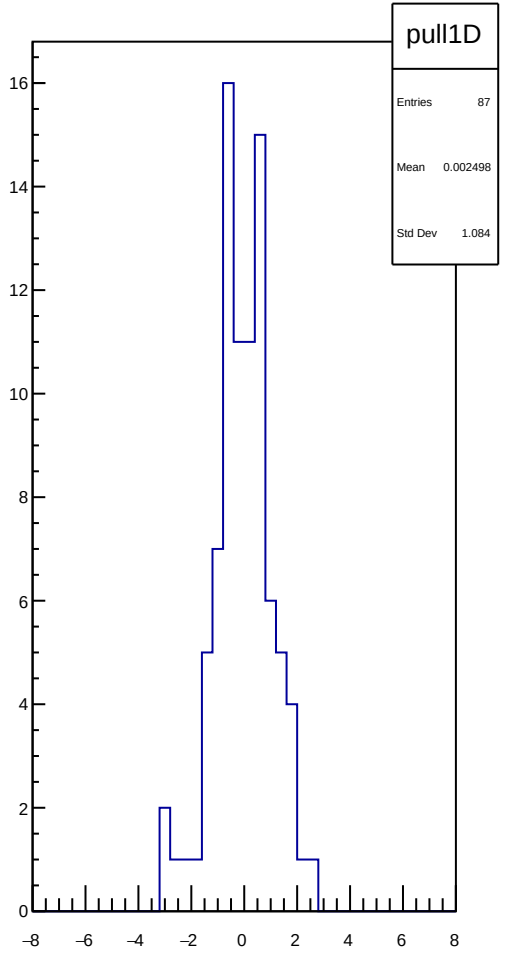

asym_usr_dit_correction_rms vs run
χ² / ndf 6740 / 86
p0 2806 ± 2.119
3200
3100
3000
2900
2800
2700
2600
2500

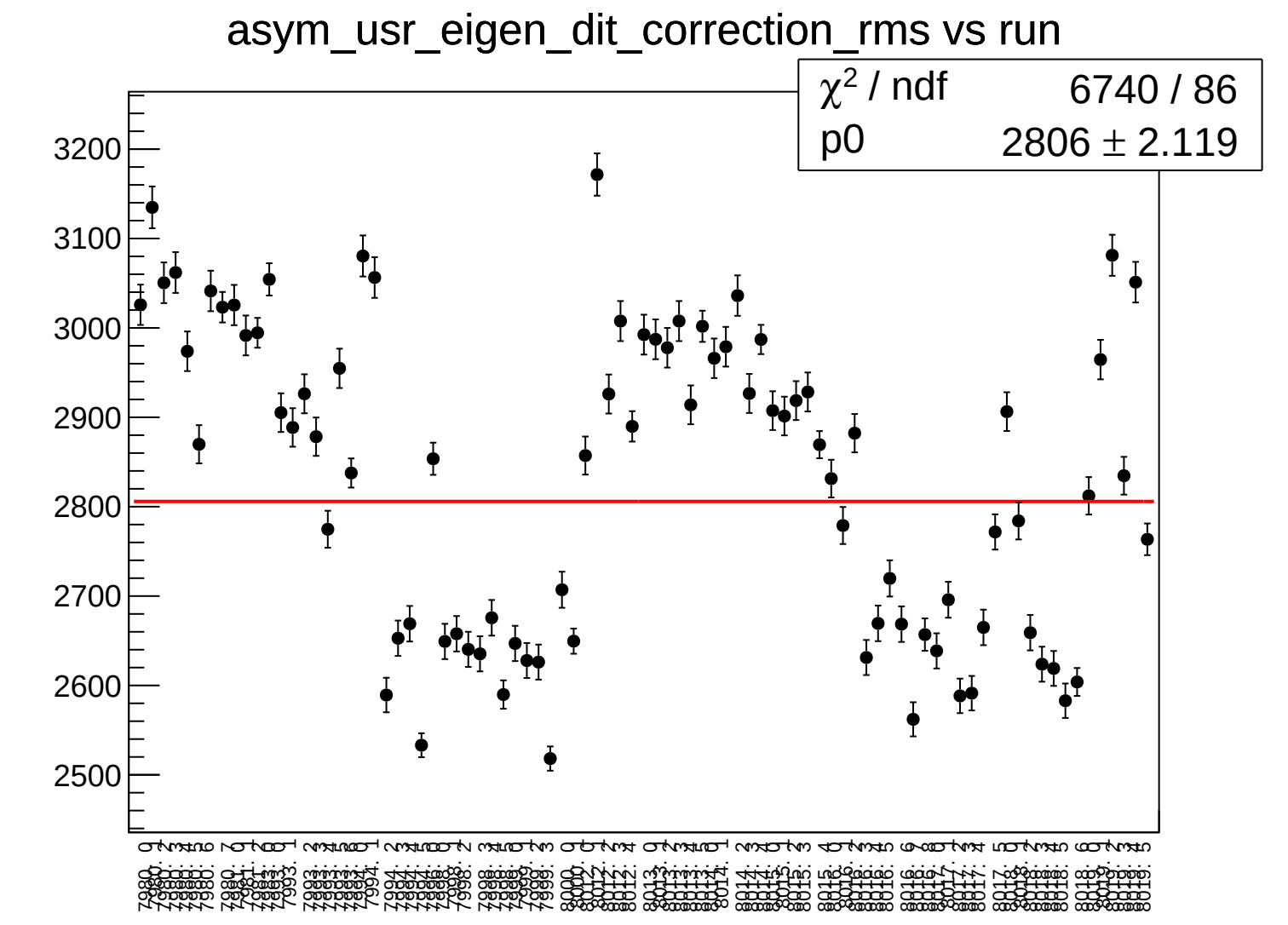

eigen_dit_asym_usr_mean vs run
χ² / ndf 85.86 / 86
p0 3430 ± 1156
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −651.9
Std Dev 0
2
1
0
−1
−2
−3

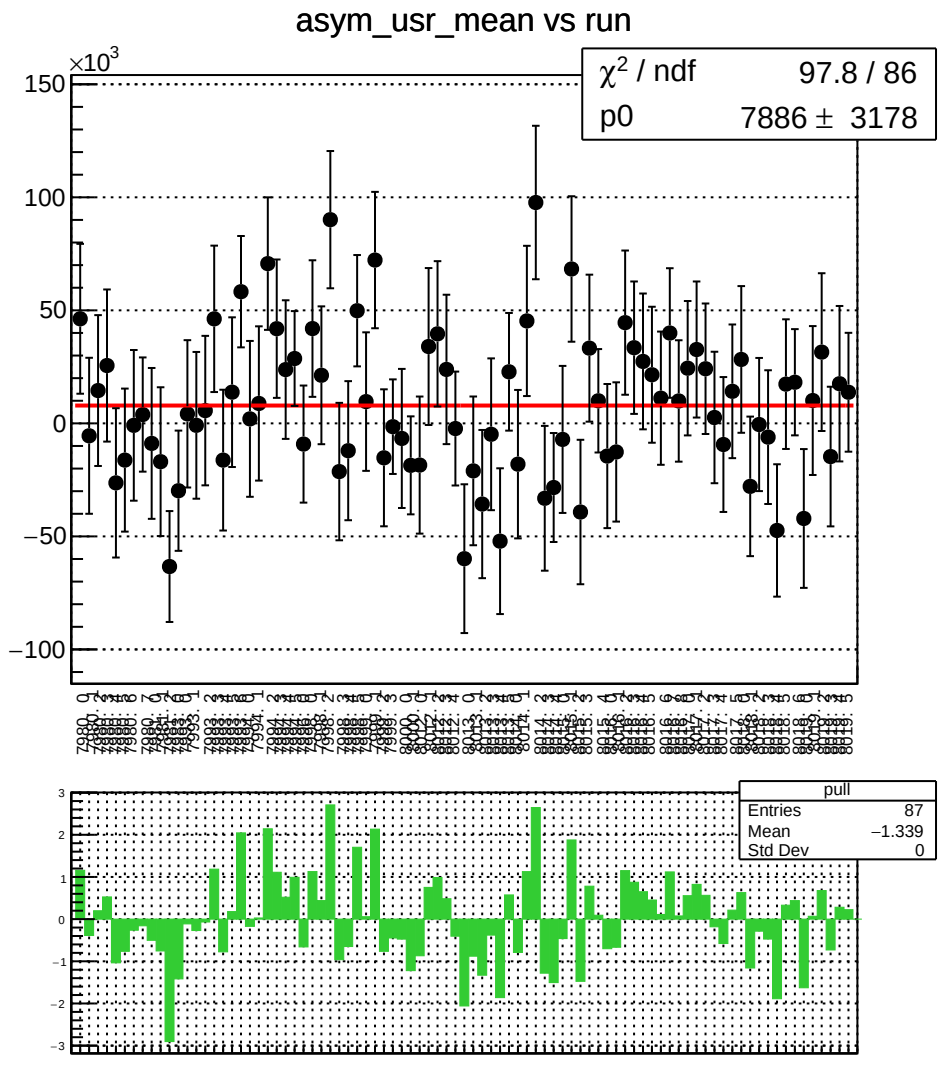

pull1D
Entries 87
Mean 0.003779
Std Dev 0.9934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

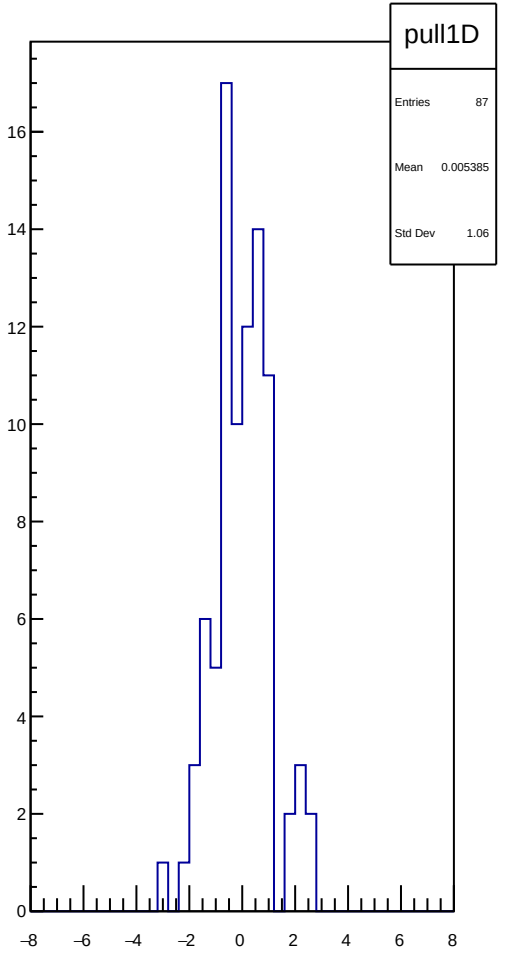

eigen_dit_asym_usr_rms vs run
χ² / ndf 147.2 / 86
p0 1085 ± 0.8174
1120
1110
1100
1090
1080
1070
1060
1050

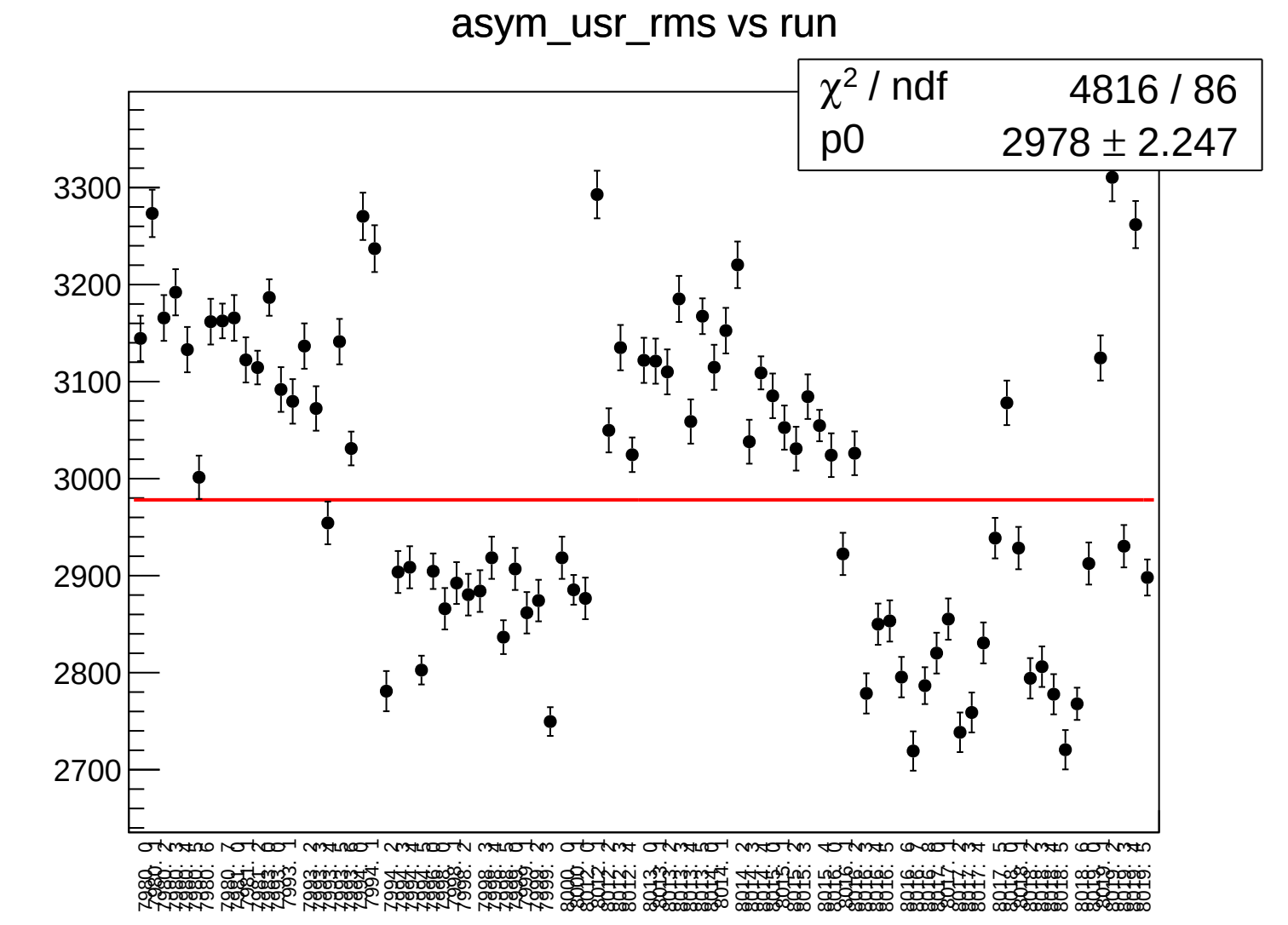

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 102.3 / 86
p0 −4833 ± 2996
100
50
0
−50
−100
−150
pull
Entries 87
Mean −276.8
Std Dev 0
2
1
0
−1
−2
−3

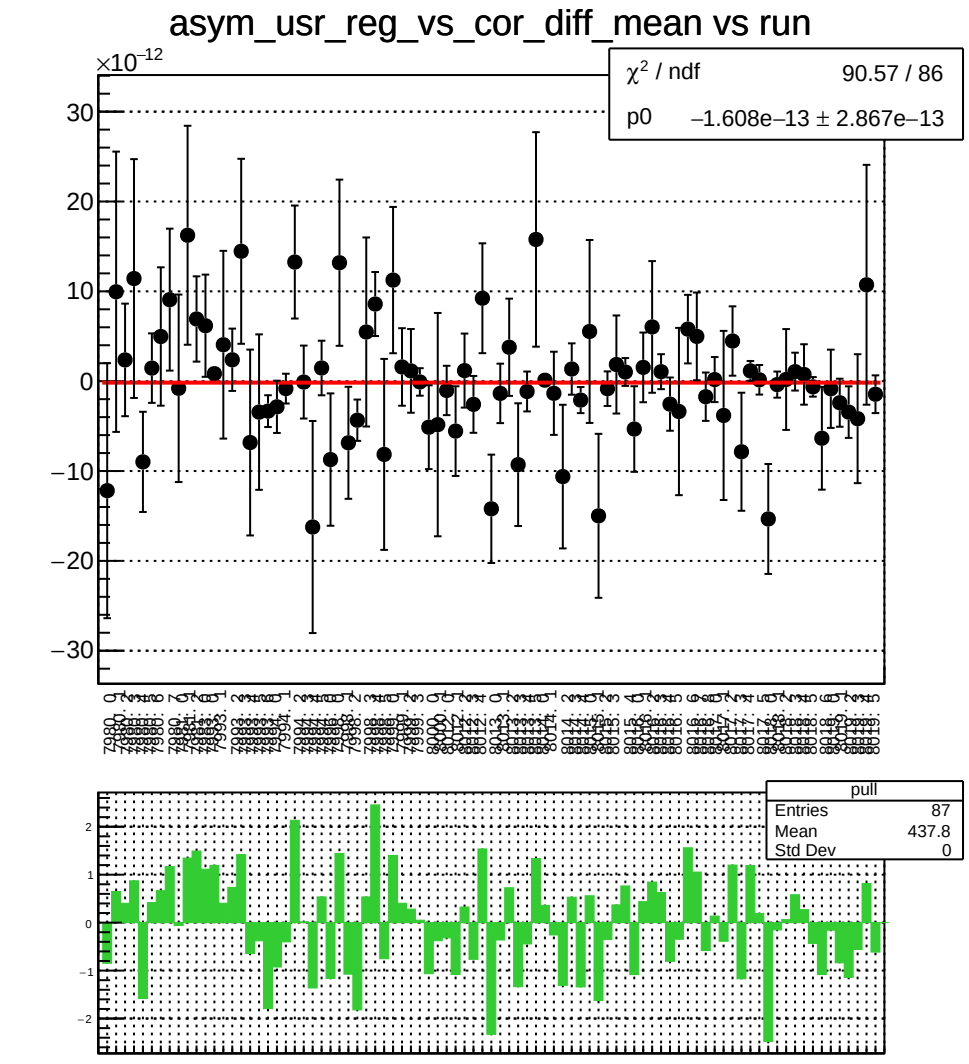

pull1D
Entries 87
Mean 0.002498
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

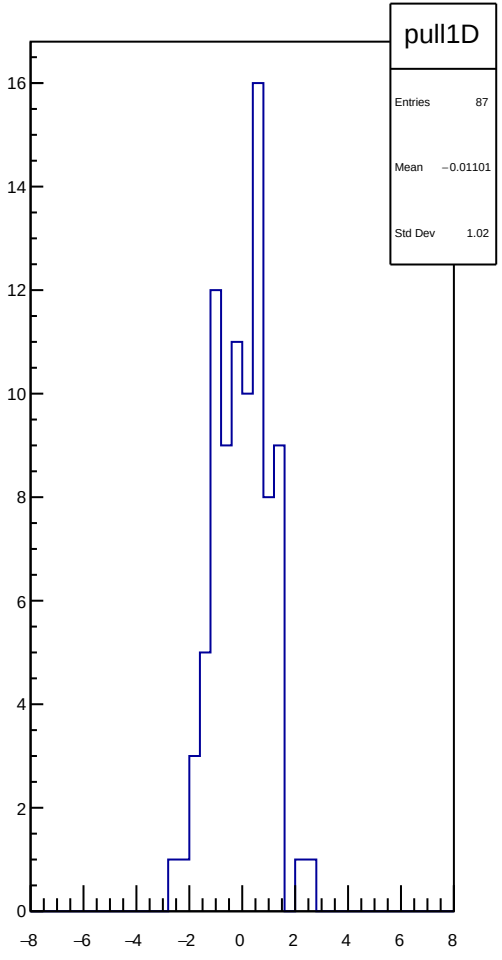

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 6740 / 86
p0 2806 ± 2.119
3200
3100
3000
2900
2800
2700
2600
2500

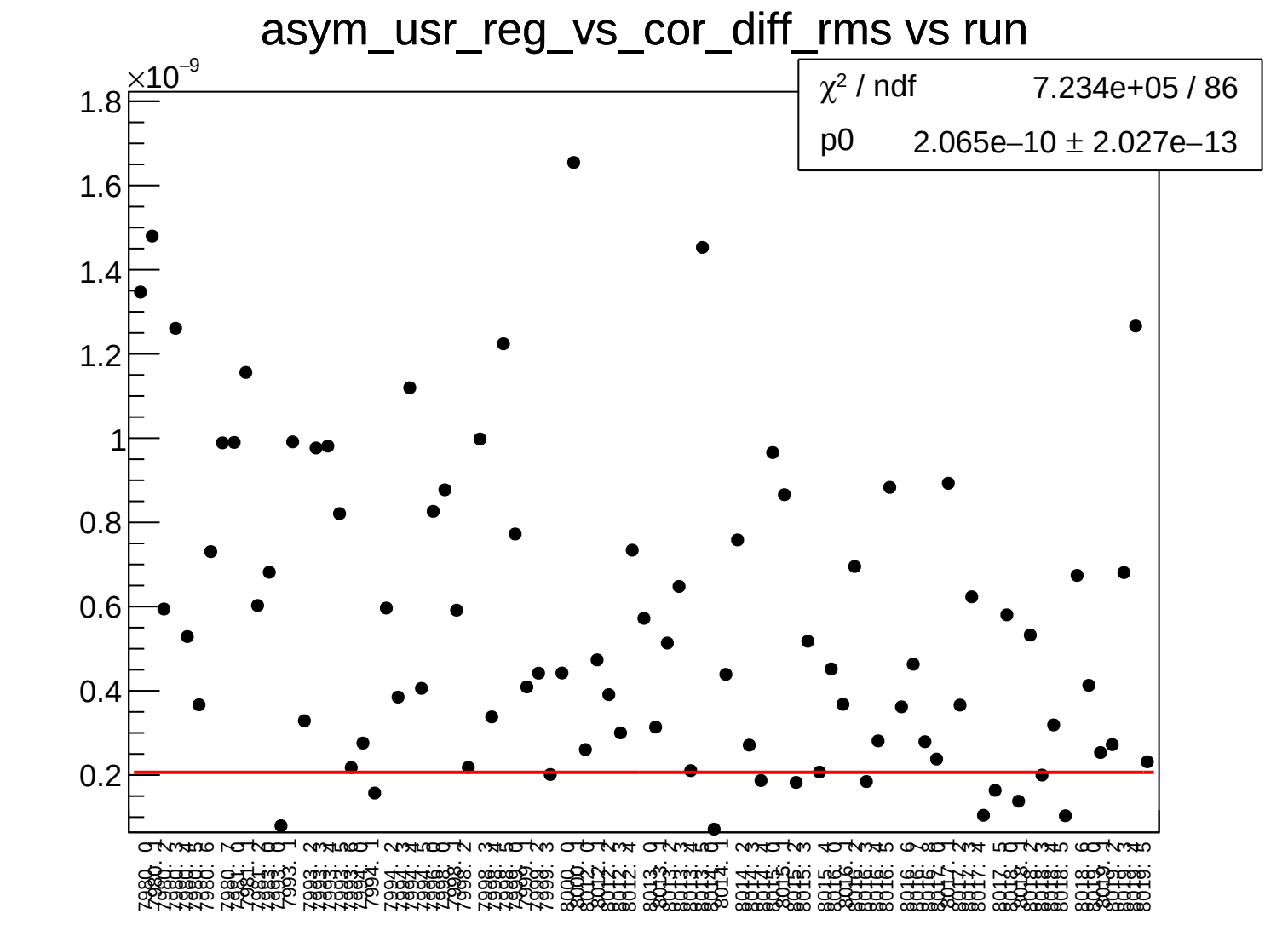

asym_usr_mean vs run
×10^3
χ² / ndf 97.8 / 86
p0 7886 ± 3178
150
100
50
0
−50
−100
pull
Entries 87
Mean −1.339
Std Dev 0
3
2
1
0
−1
−2
−3

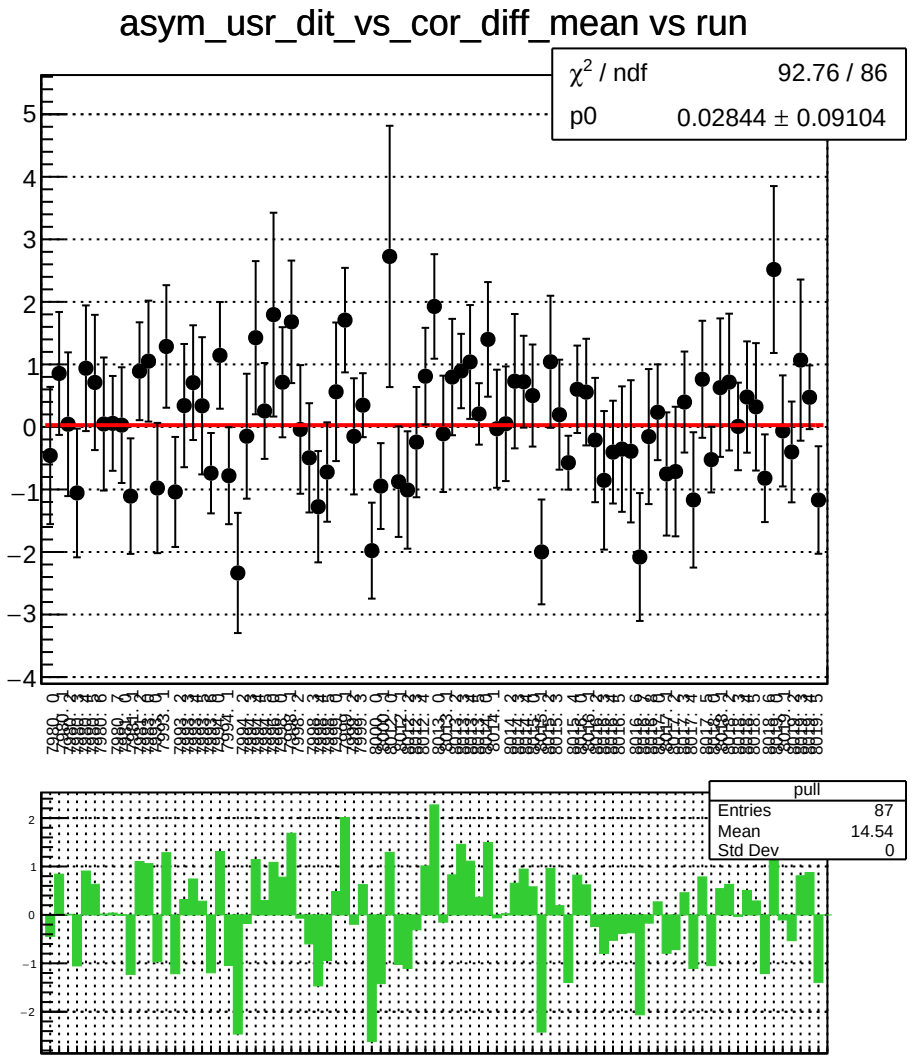

pull1D
Entries 87
Mean 0.005385
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

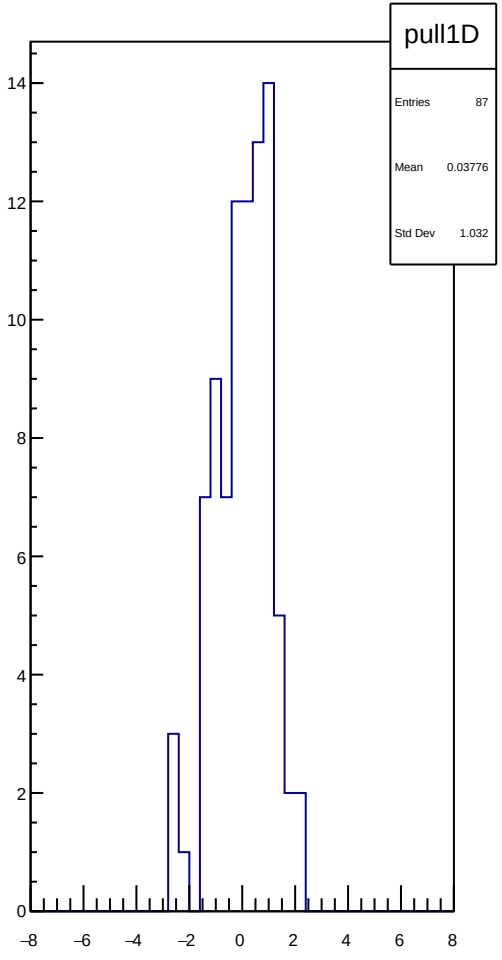

asym_usr_rms vs run
χ² / ndf 4816 / 86
p0 2978 ± 2.247
3300
3200
3100
3000
2900
2800
2700

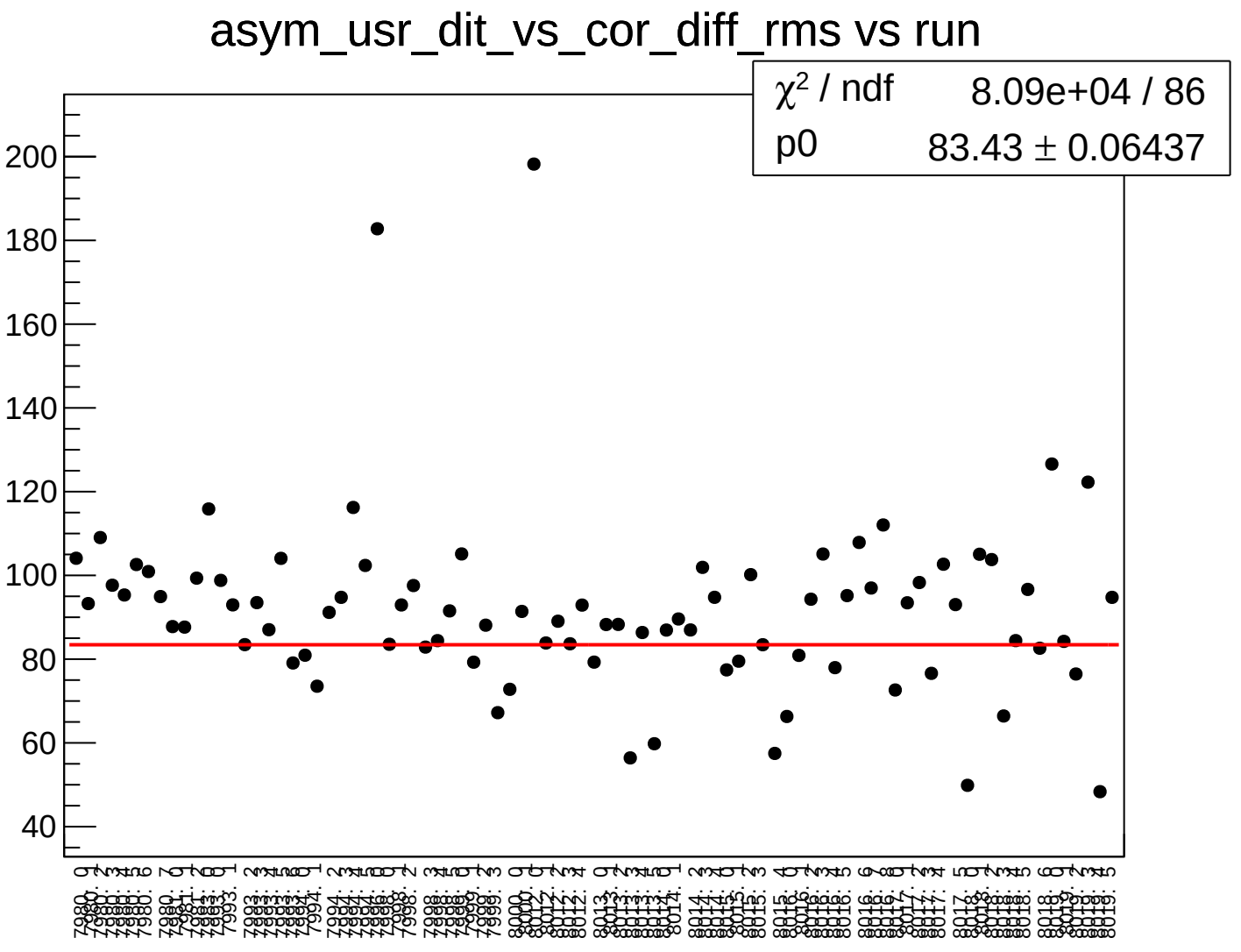

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.57 / 86
p0 −1.608e−13 ± 2.867e−13
pull
Entries 87
Mean 437.8
Std Dev 0

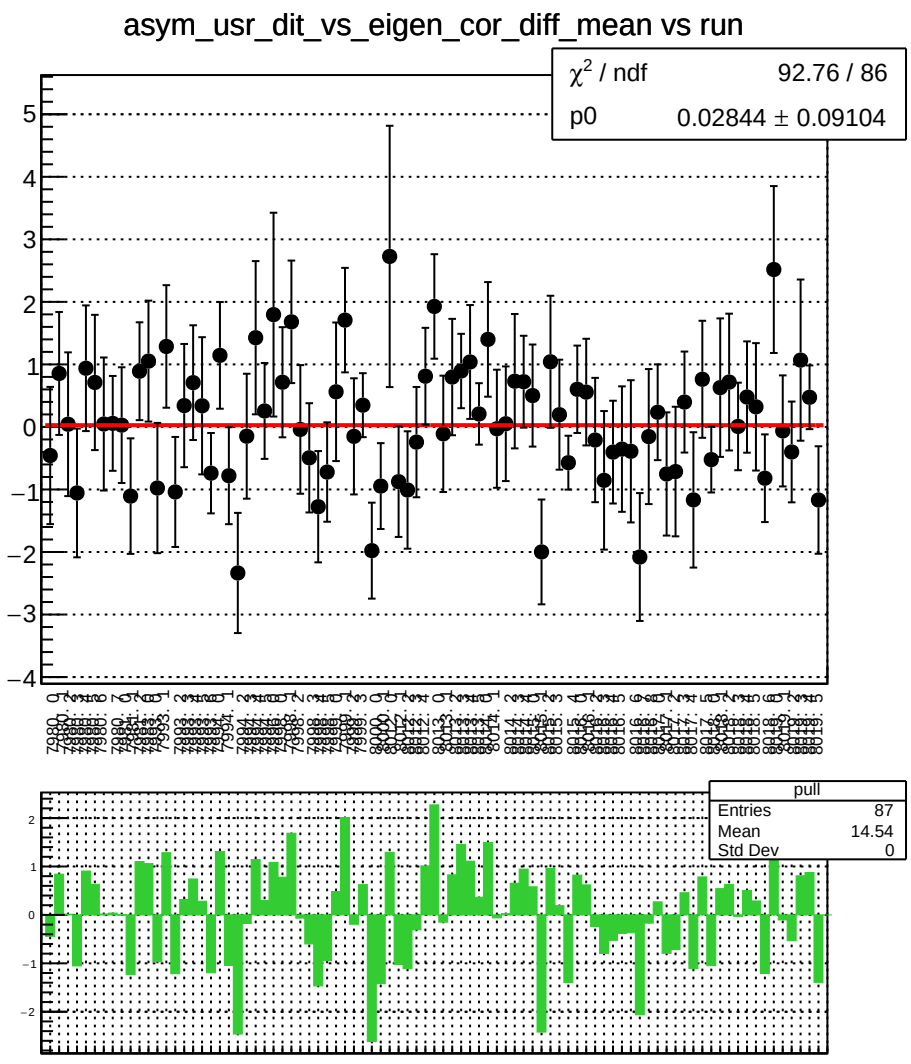

pull1D
Entries 87
Mean −0.01101
Std Dev 1.02

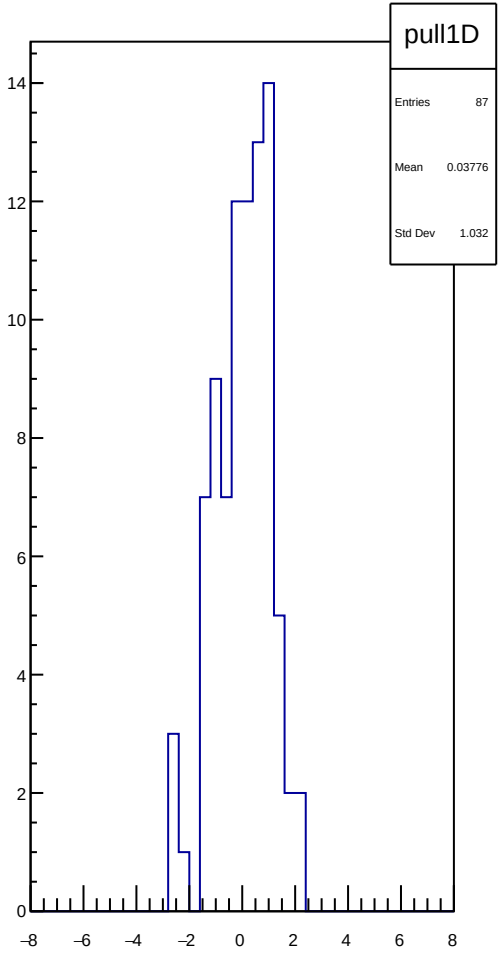

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.234e+05 / 86
p0 2.065e−10 ± 2.027e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

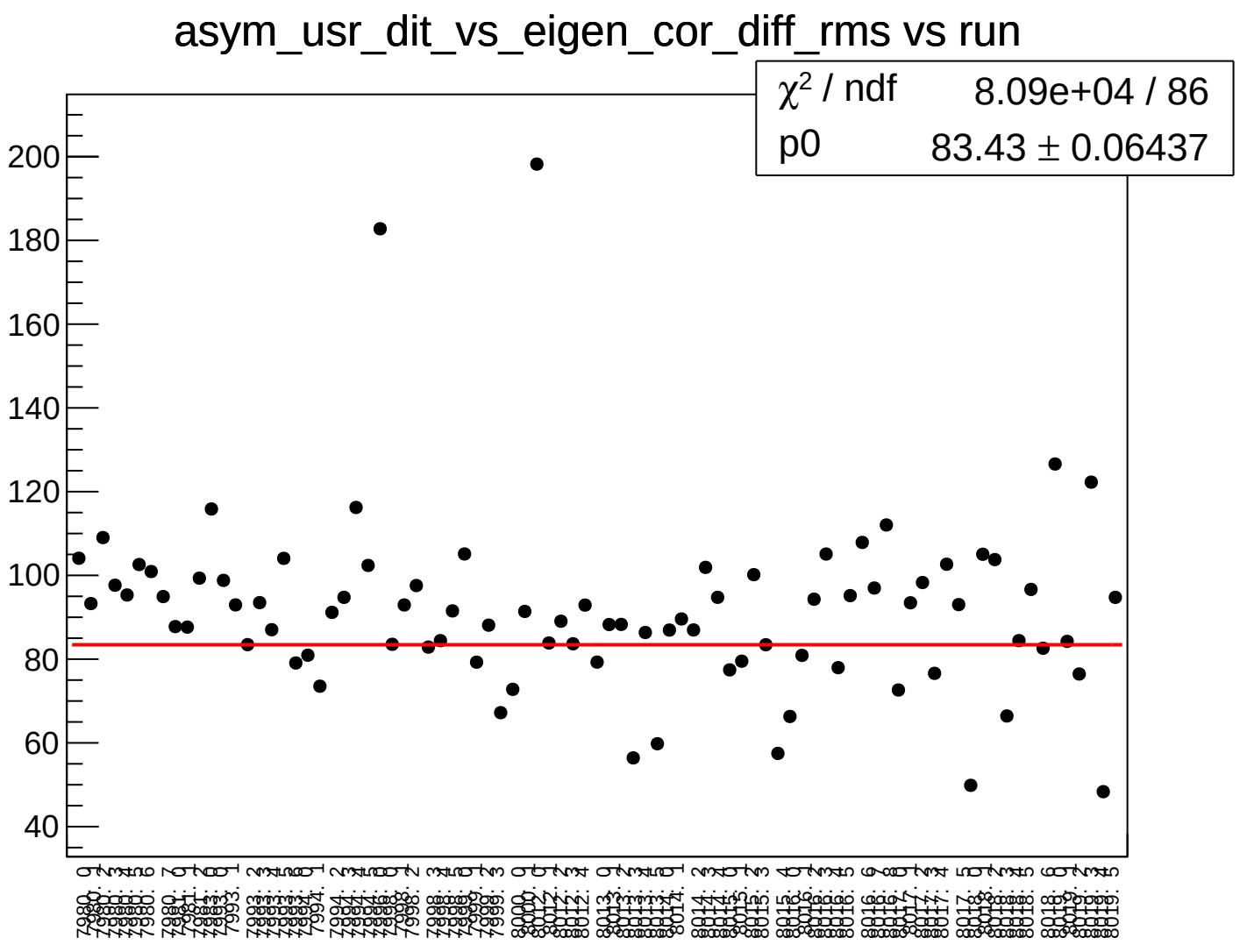

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 92.76 / 86
p0 0.02844 ± 0.09104
pull
Entries 87
Mean 14.54
Std Dev 0

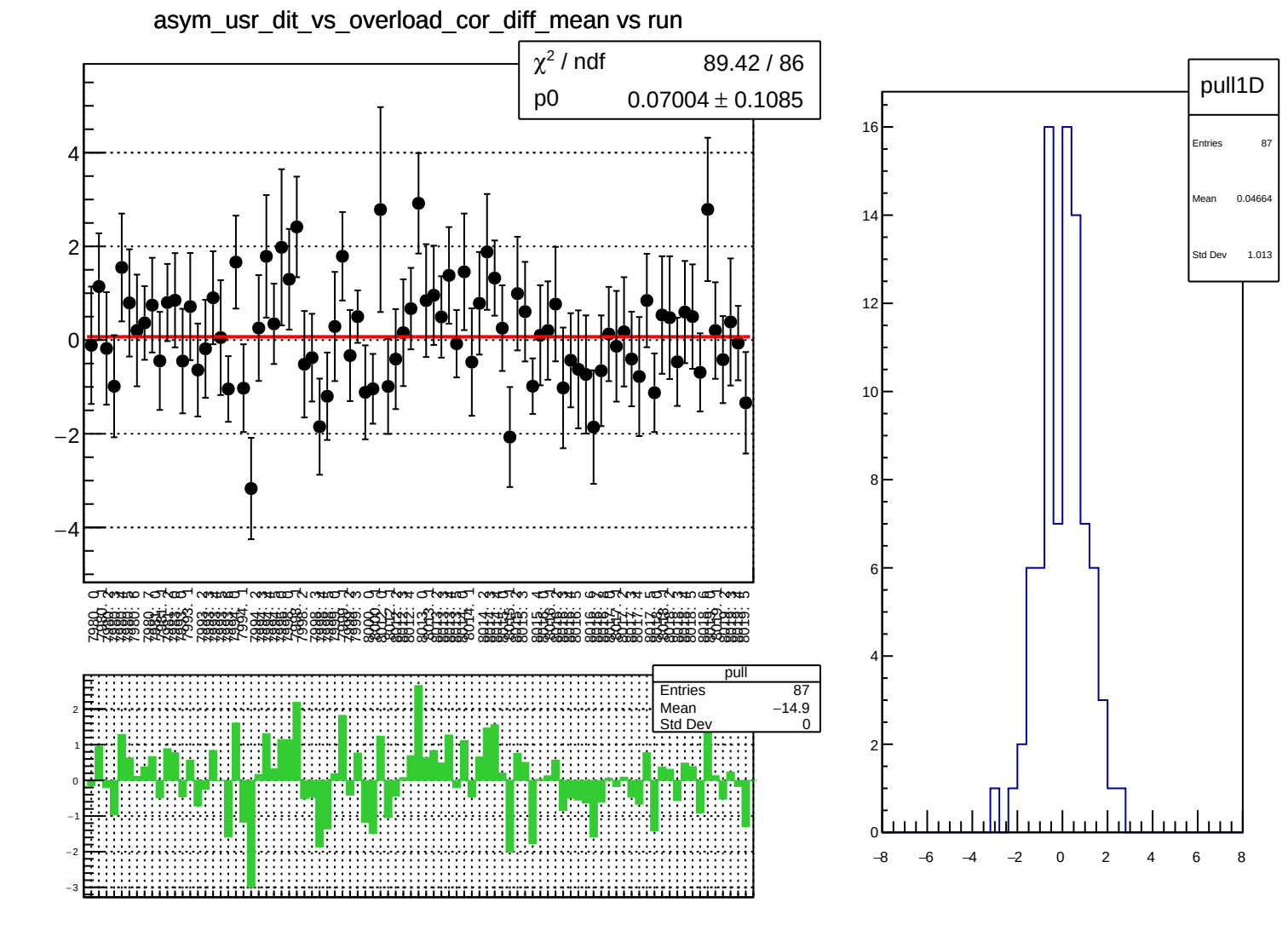

pull1D
Entries 87
Mean 0.03776
Std Dev 1.032

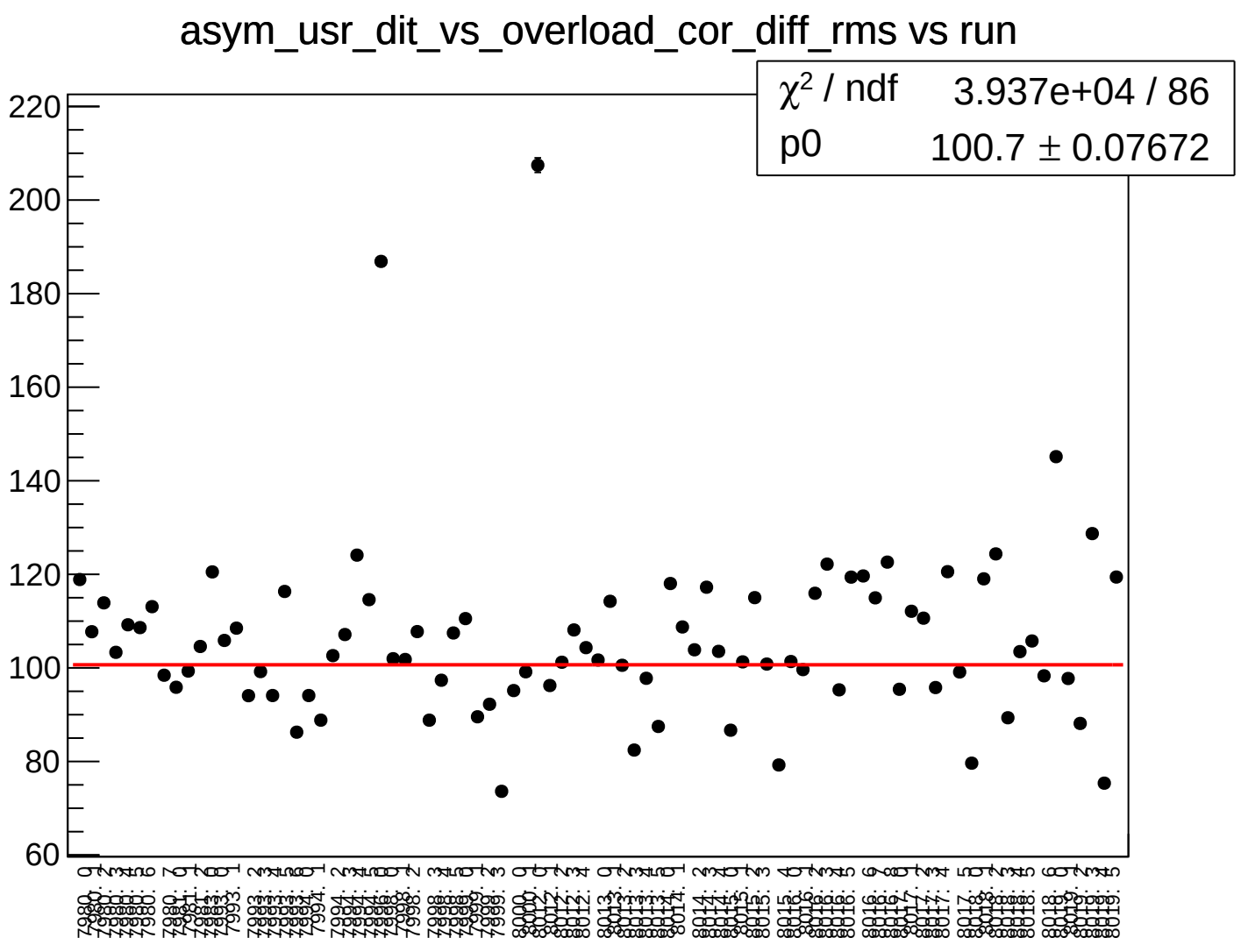

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 8.09e+04 / 86
p0 83.43 ± 0.06437
200
180
160
140
120
100
80
60
40

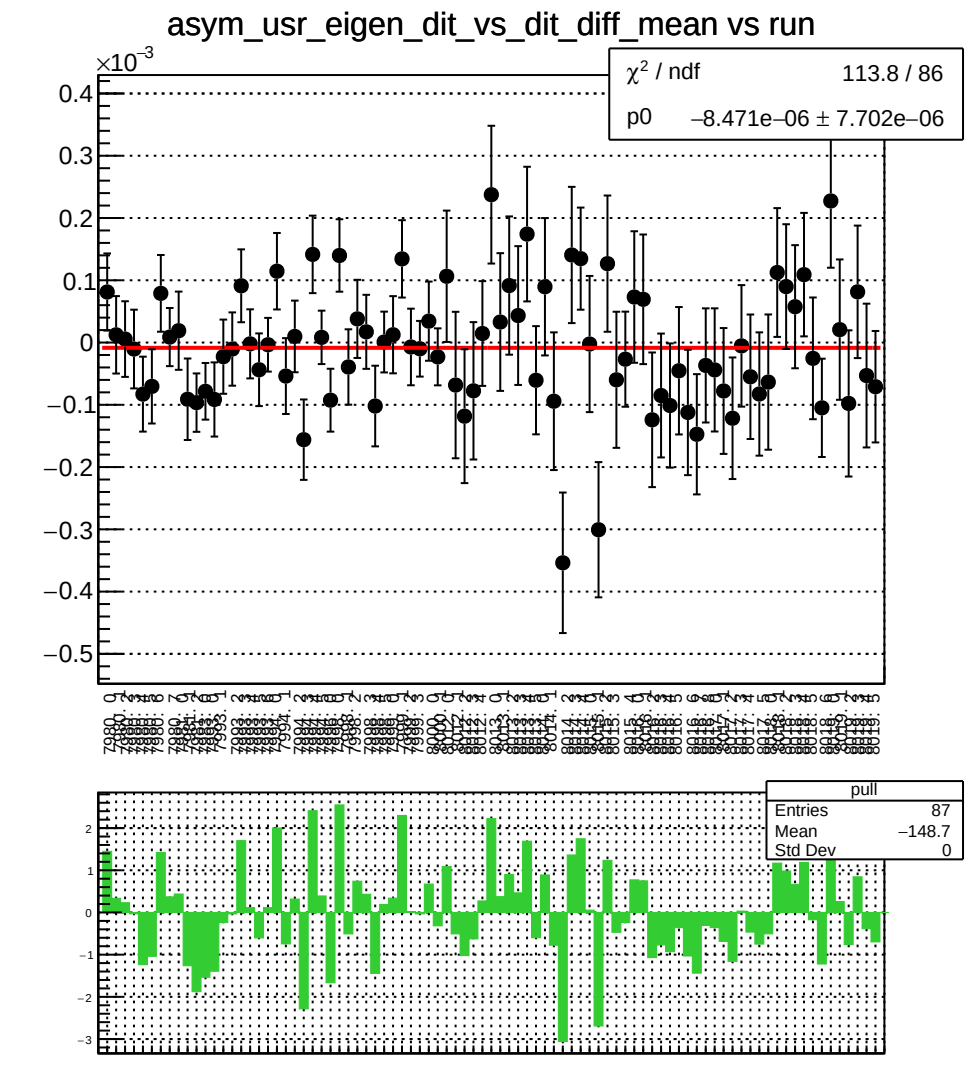

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.76 / 86
p0 0.02844 ± 0.09104
pull
Entries 87
Mean 14.54
Std Dev 0

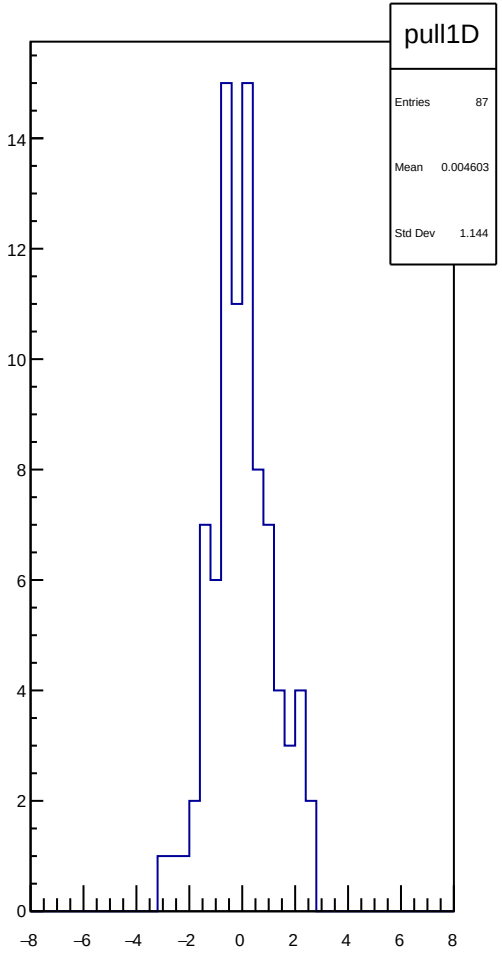

pull1D
Entries 87
Mean 0.03776
Std Dev 1.032

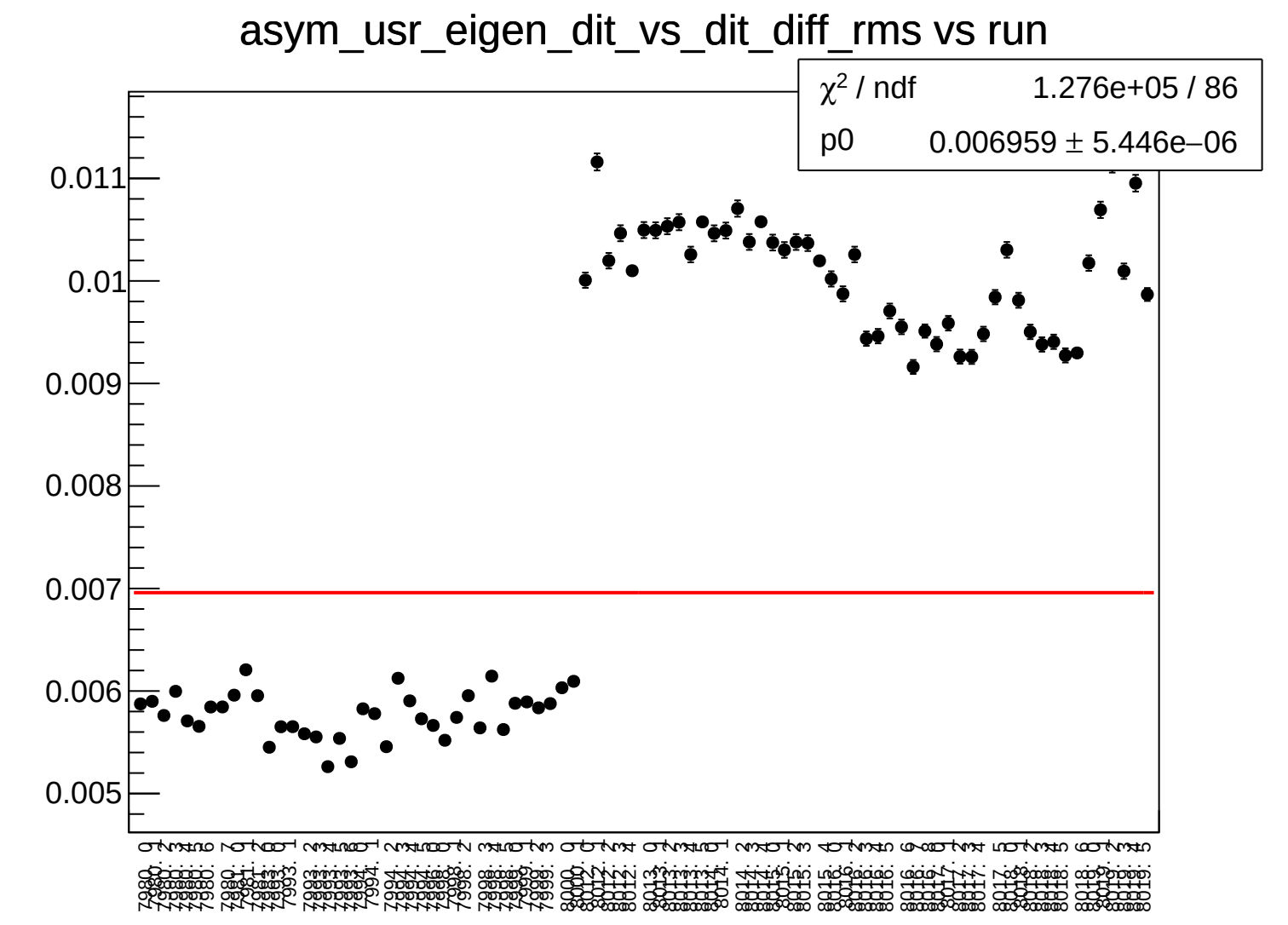

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.09e+04 / 86
p0 83.43 ± 0.06437
200
180
160
140
120
100
80
60
40

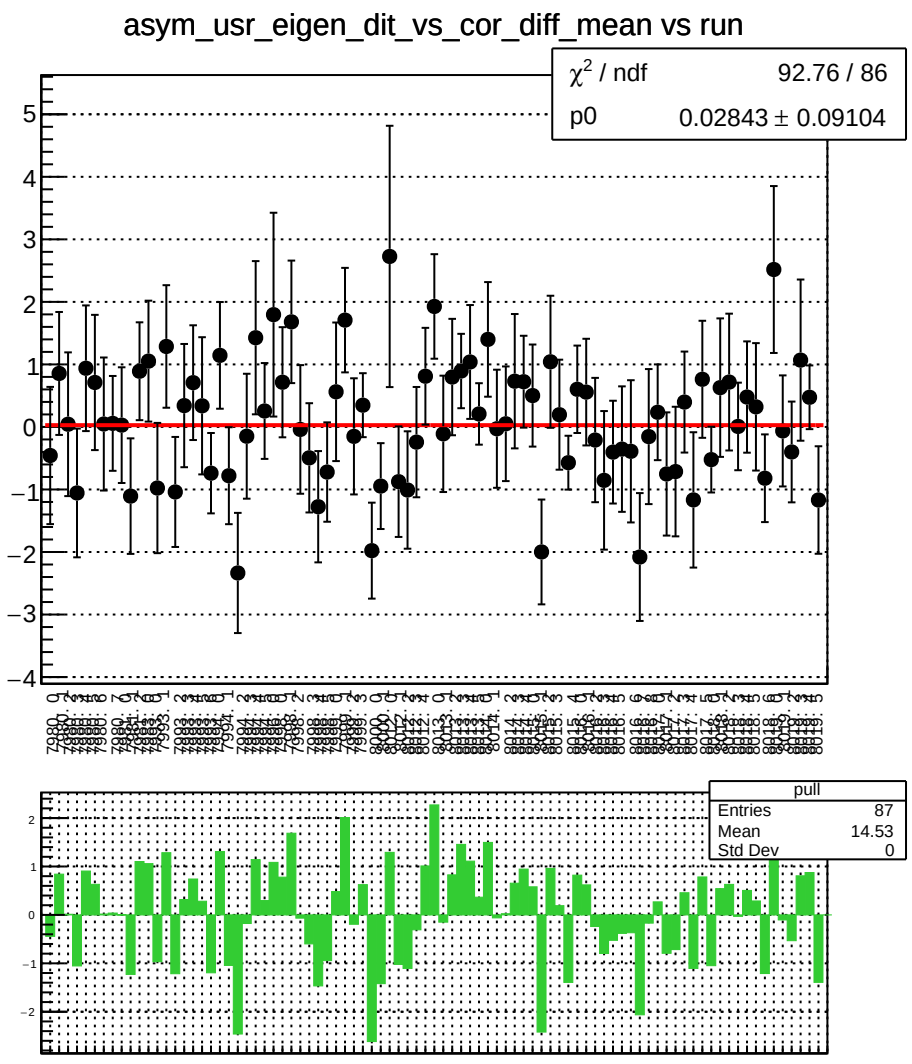

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 89.42 / 86
p0 0.07004 ± 0.1085
pull
Entries 87
Mean −14.9
Std Dev 0
pull1D
Entries 87
Mean 0.04664
Std Dev 1.013

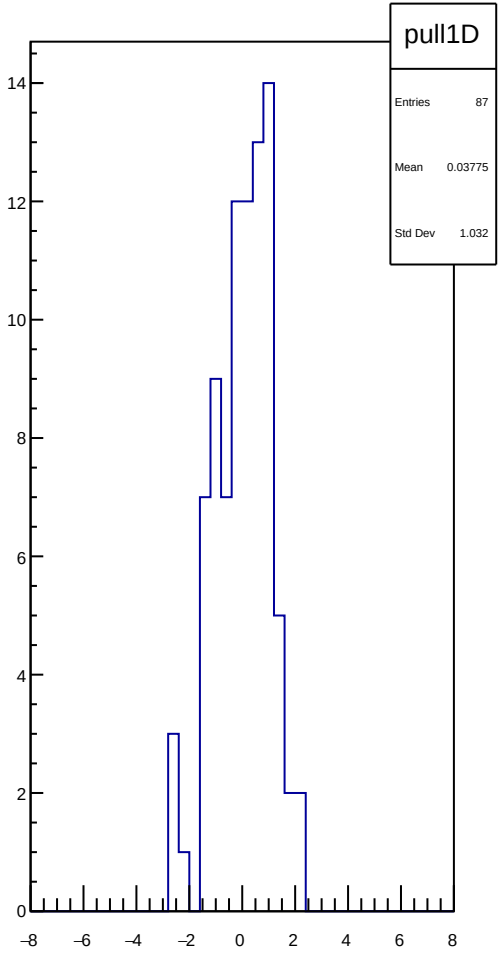

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.937e+04 / 86
p0 100.7 ± 0.07672
220
200
180
160
140
120
100
80
60

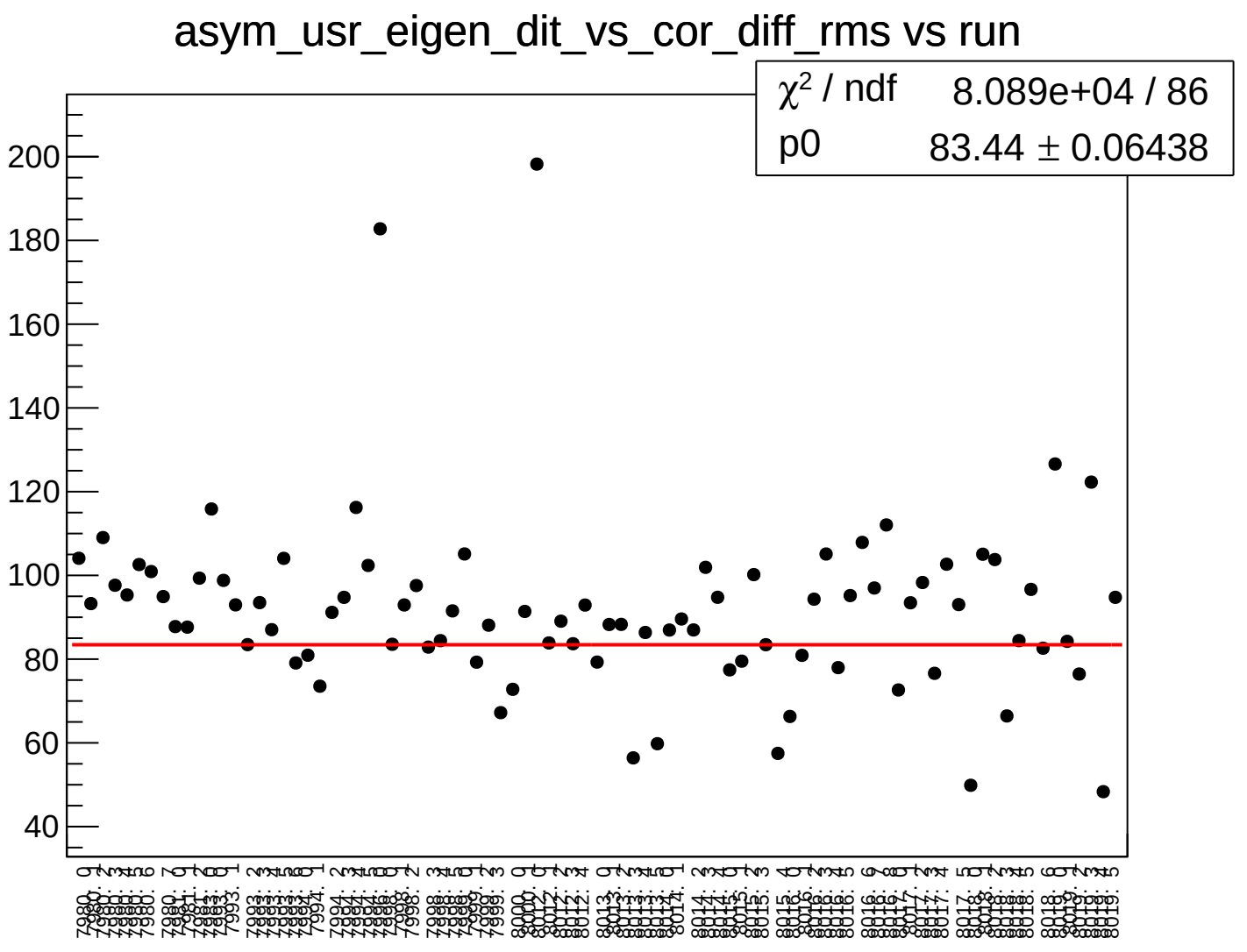

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.8 / 86
p0 −8.471e−06 ± 7.702e−06
pull
Entries 87
Mean −148.7
Std Dev 0

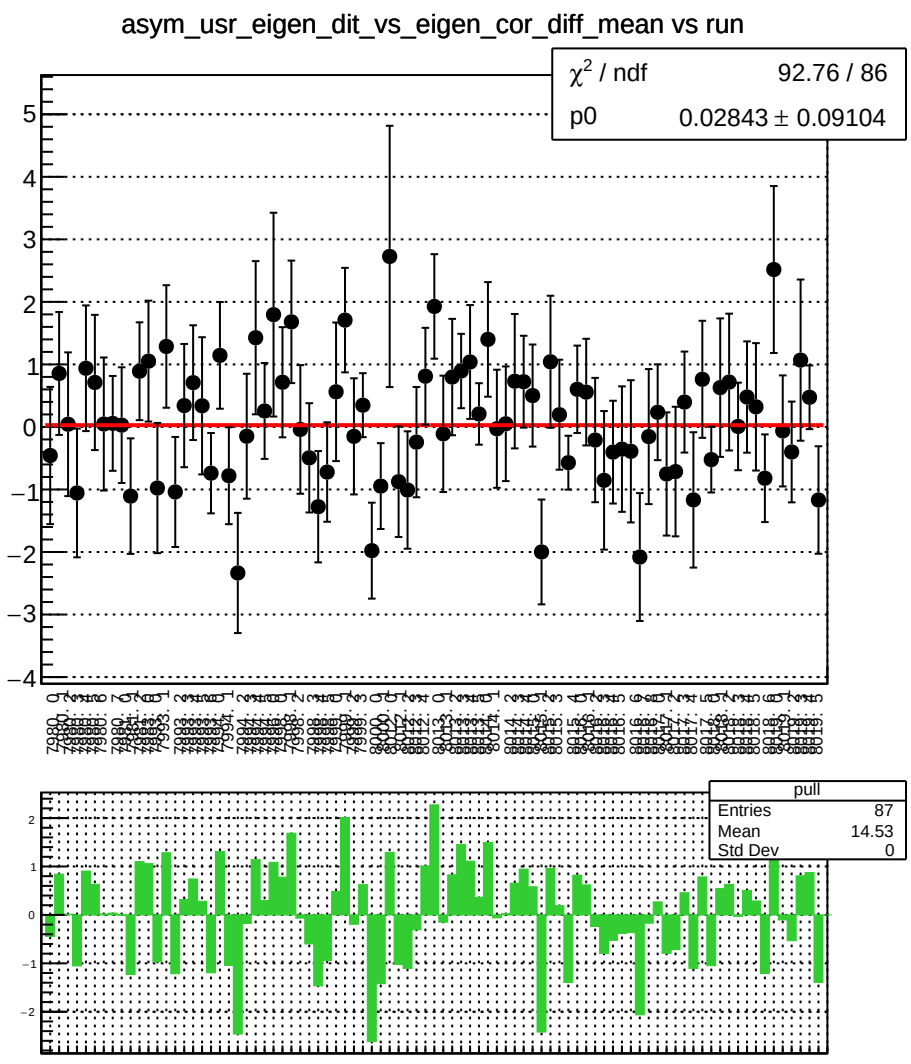

pull1D
Entries 87
Mean 0.004603
Std Dev 1.144

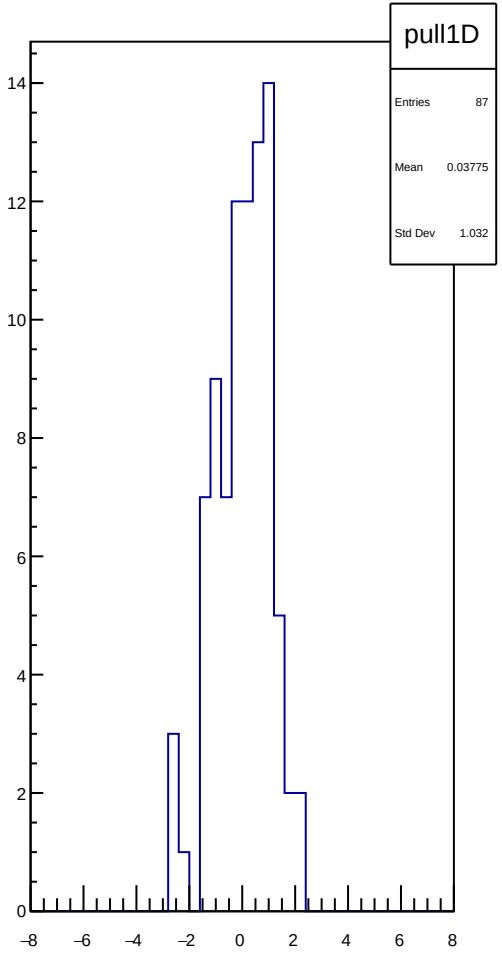

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.276e+05 / 86
p0 0.006959 ± 5.446e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

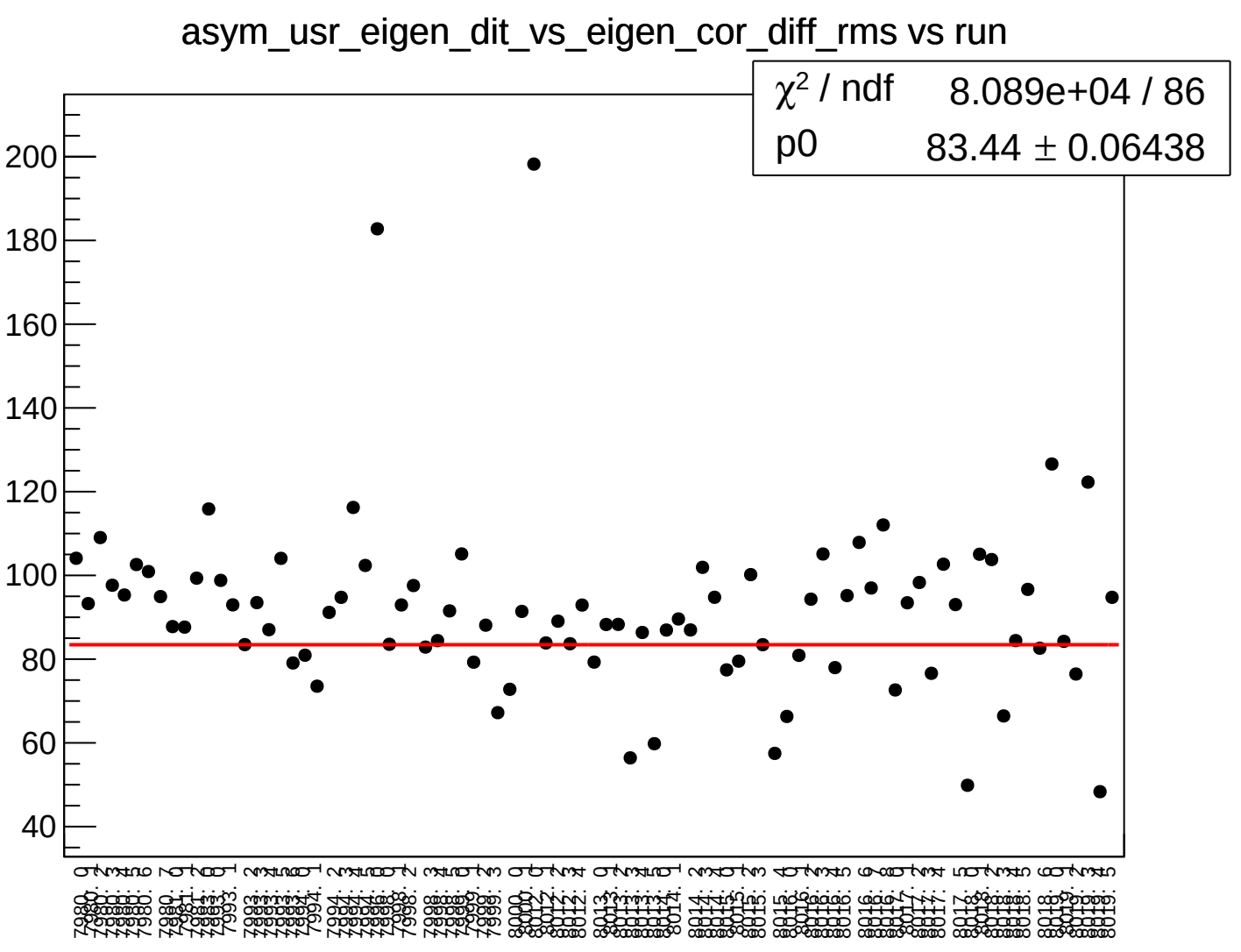

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.76 / 86
p0 0.02843 ± 0.09104
pull
Entries 87
Mean 14.53
Std Dev 0

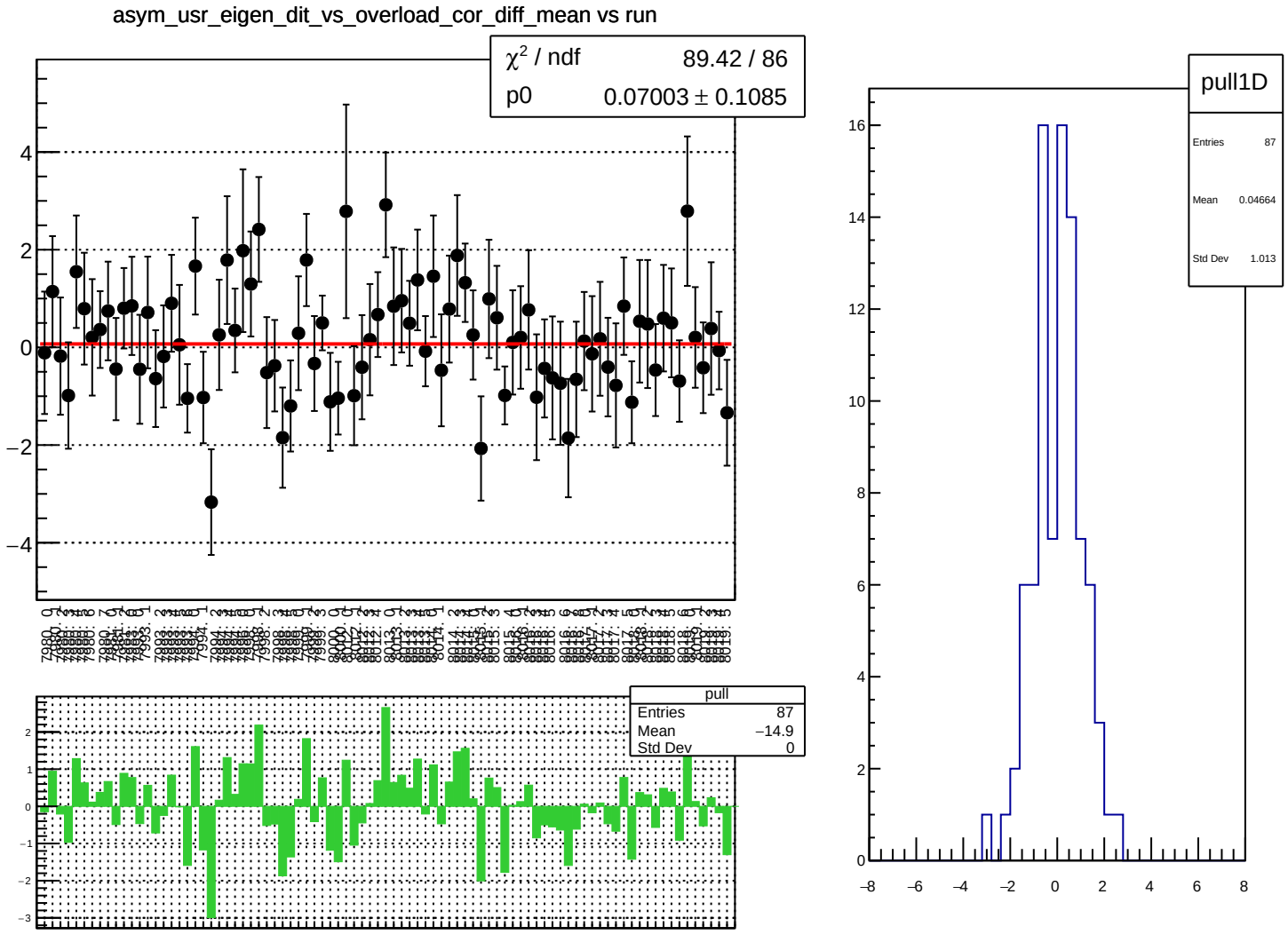

pull1D
Entries 87
Mean 0.03775
Std Dev 1.032

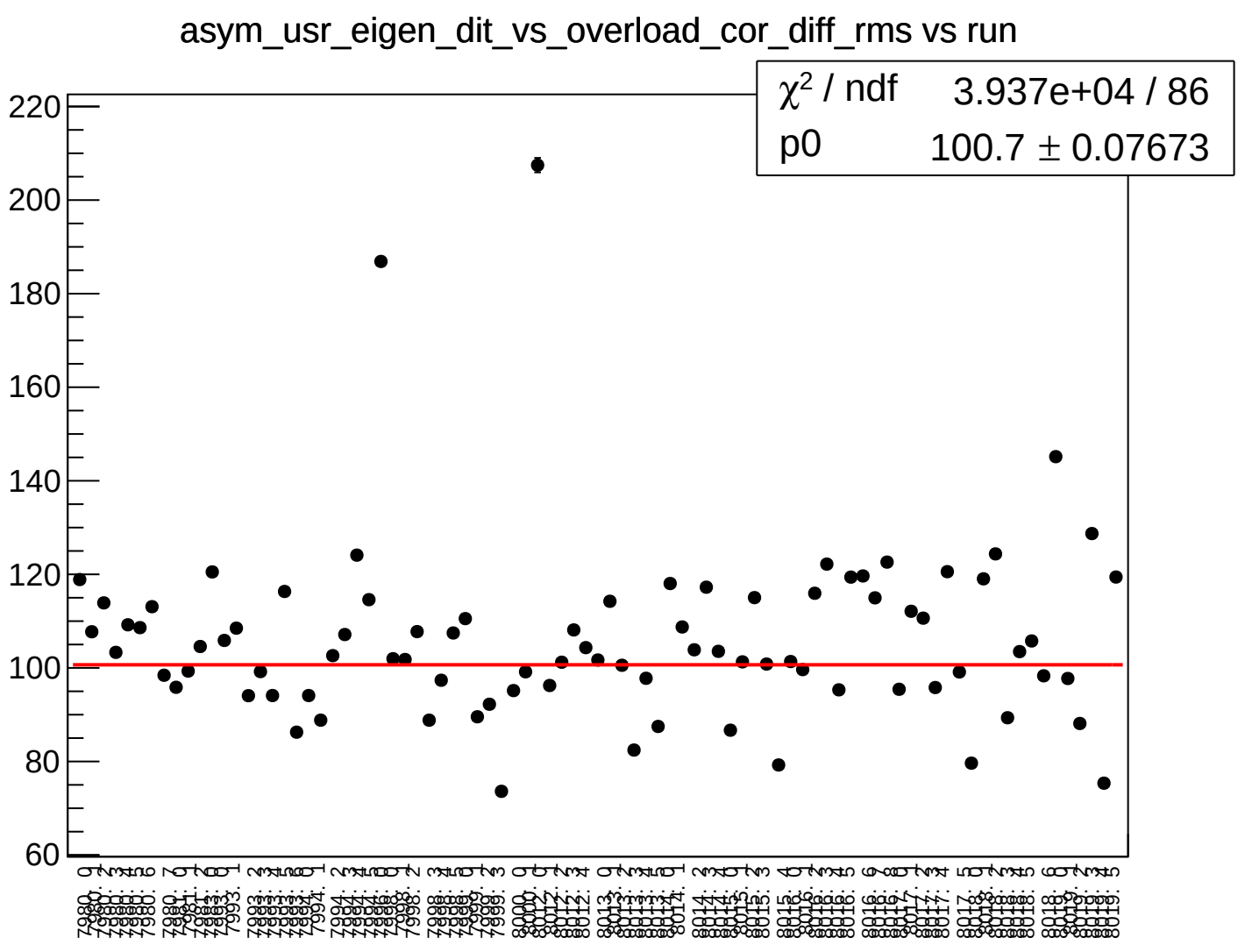

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.089e+04 / 86
p0 83.44 ± 0.06438
200
180
160
140
120
100
80
60
40

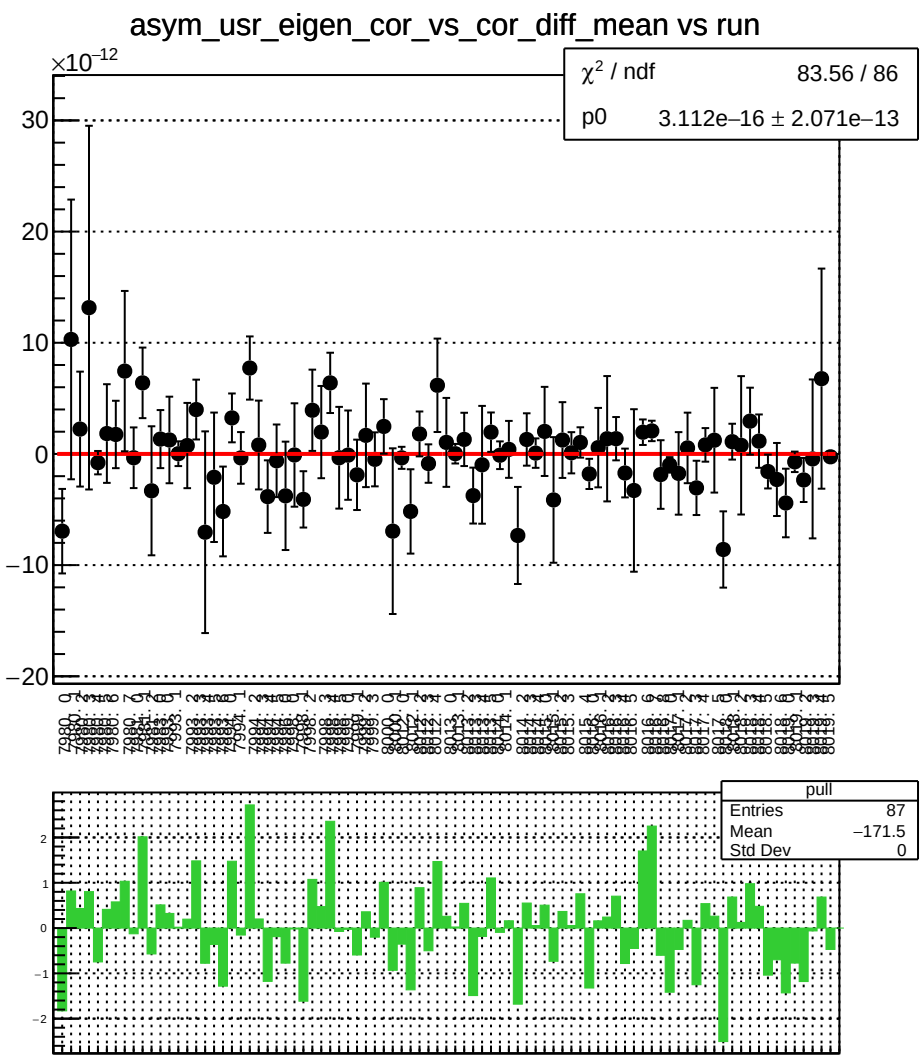

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.76 / 86
p0 0.02843 ± 0.09104
pull
Entries 87
Mean 14.53
Std Dev 0

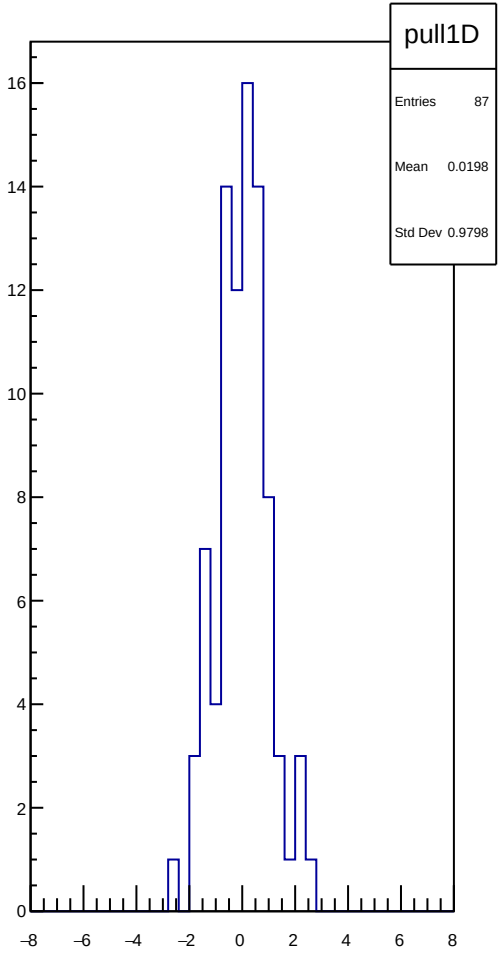

pull1D
Entries 87
Mean 0.03775
Std Dev 1.032

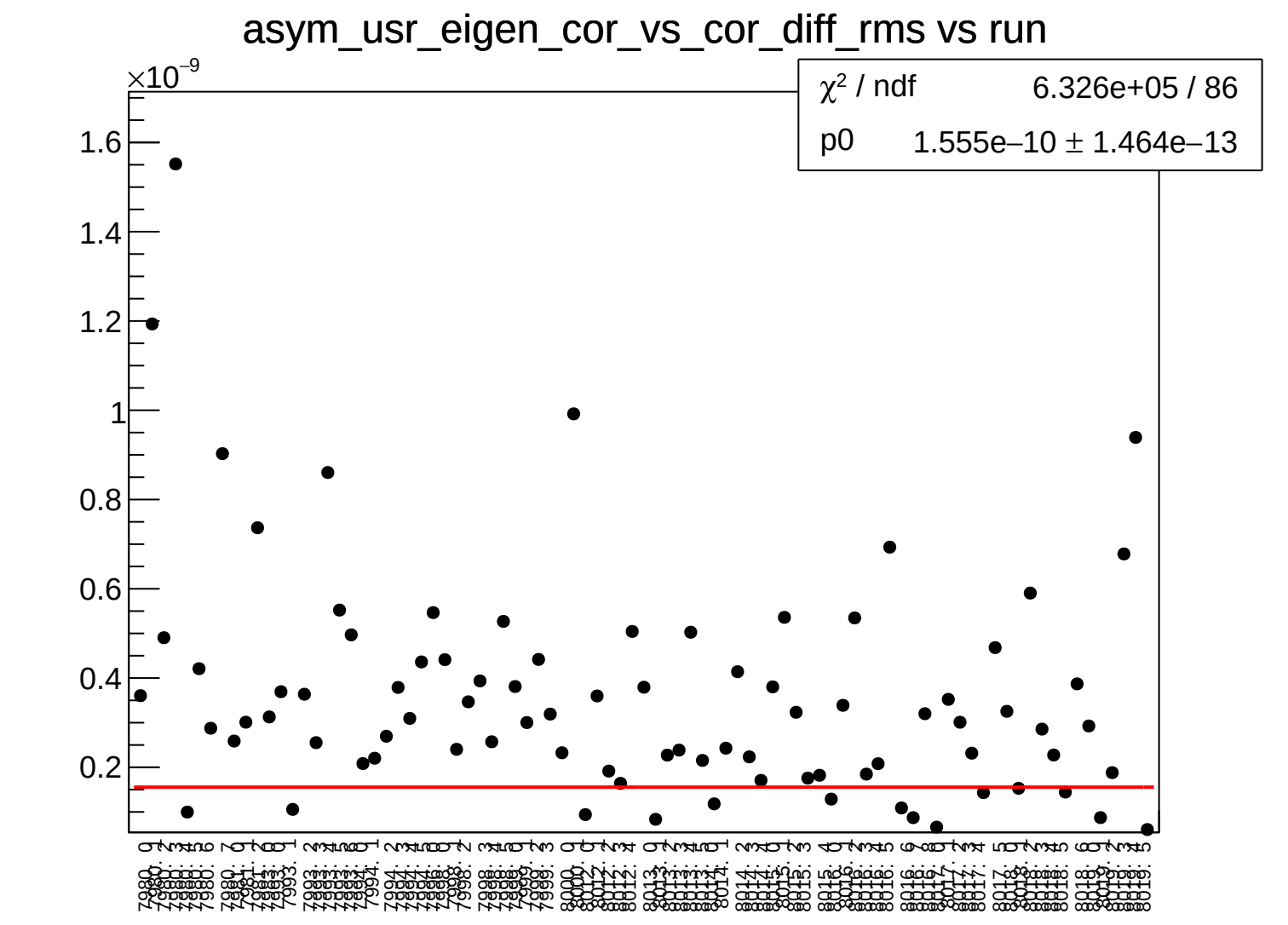

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.089e+04 / 86
p0 83.44 ± 0.06438
200
180
160
140
120
100
80
60
40

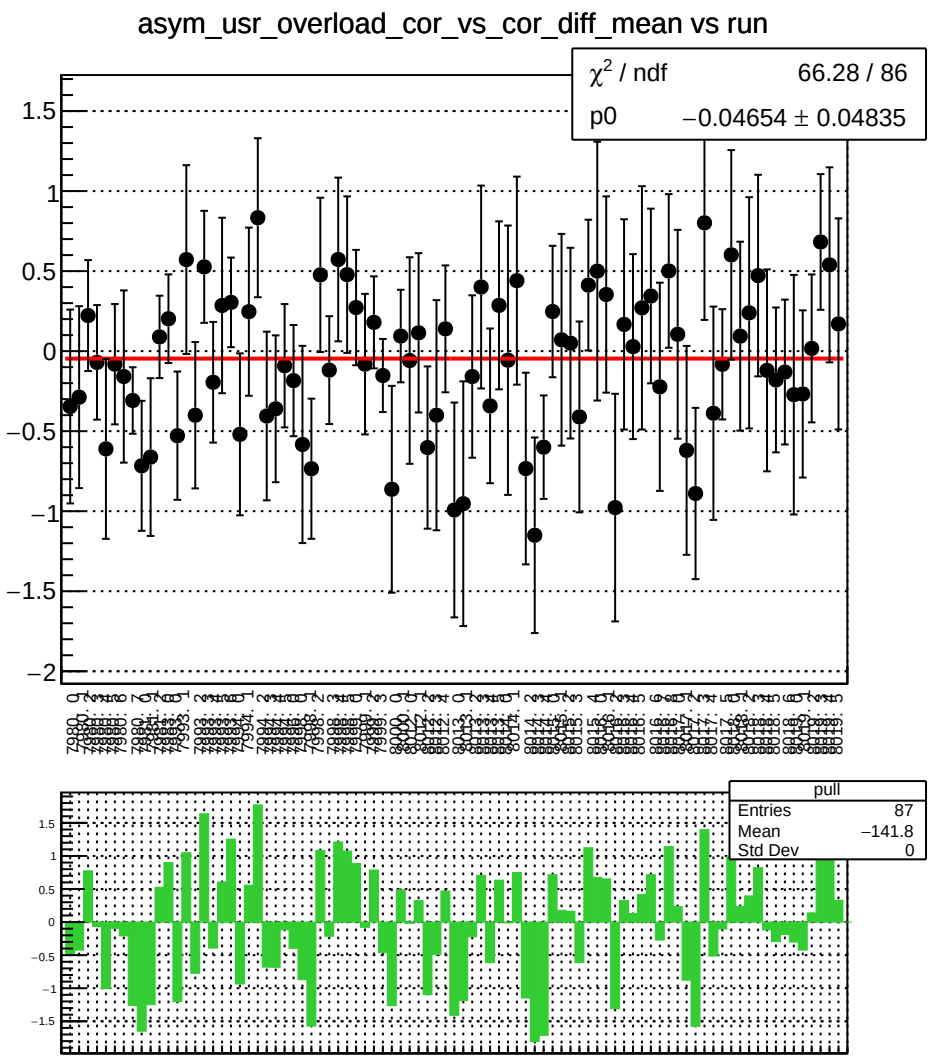

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 89.42 / 86
p0 0.07003 ± 0.1085
pull
Entries 87
Mean −14.9
Std Dev 0
pull1D
Entries 87
Mean 0.04664
Std Dev 1.013

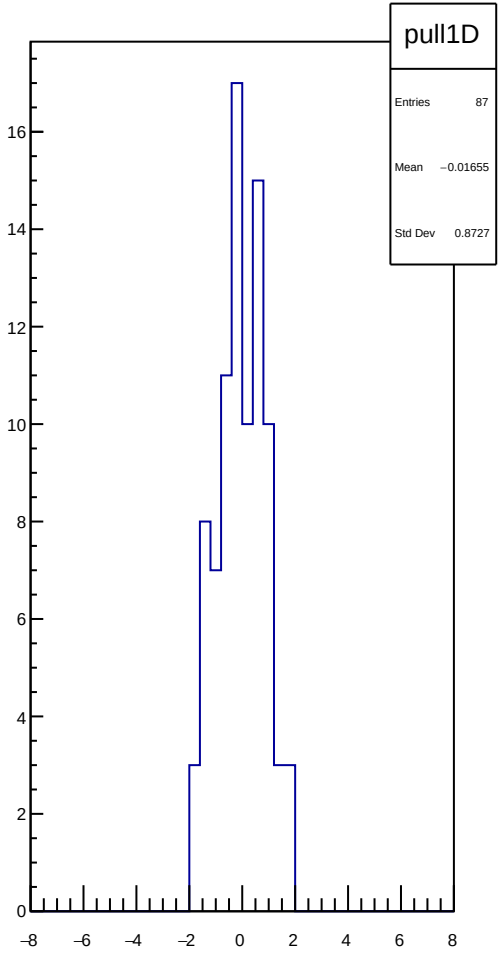

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.937e+04 / 86
p0 100.7 ± 0.07673
220
200
180
160
140
120
100
80
60

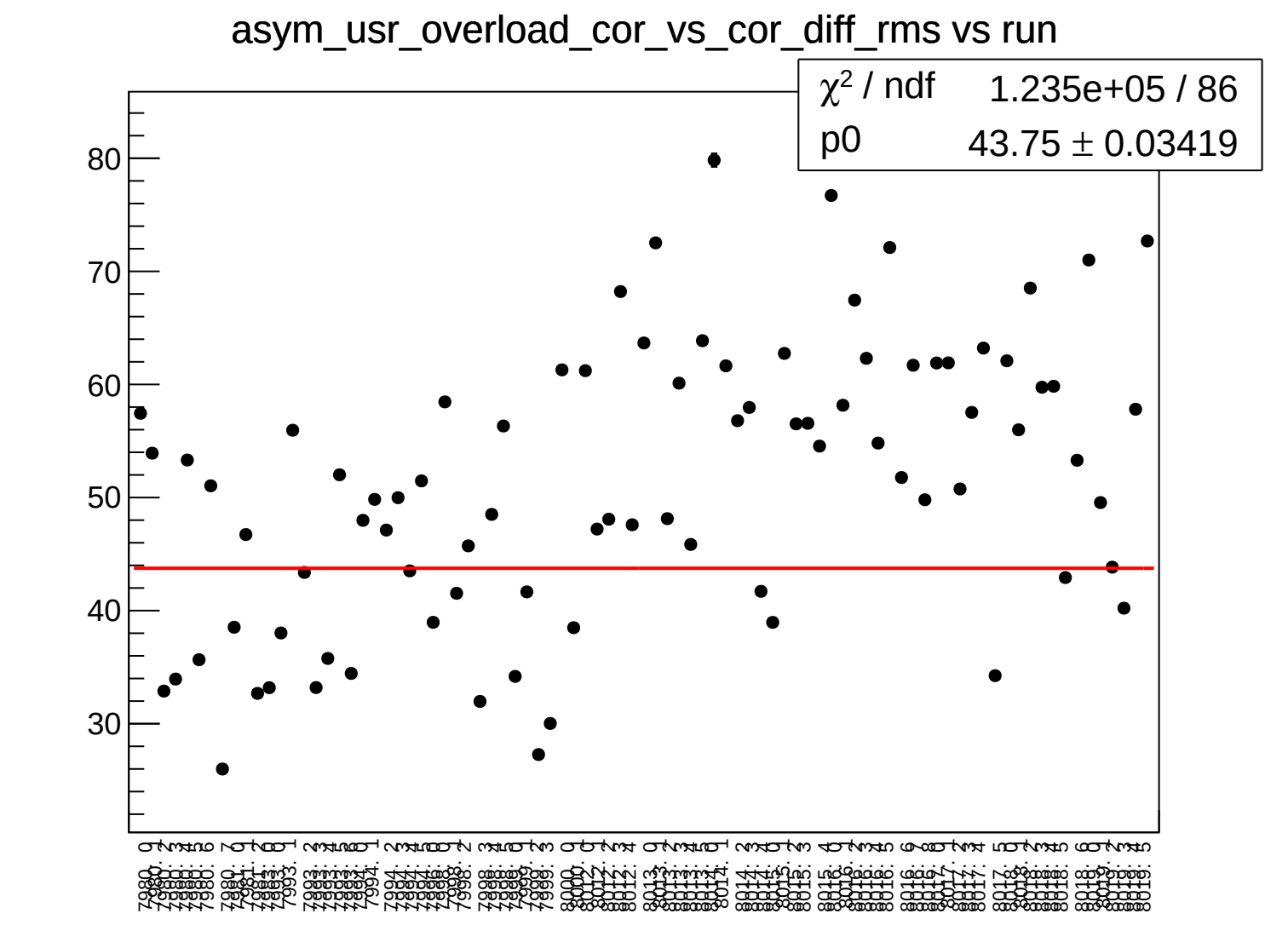

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.56 / 86
p0 3.112e−16 ± 2.071e−13
30
20
10
0
−10
−20
pull
Entries 87
Mean −171.5
Std Dev 0
2
1
0
−1
−2

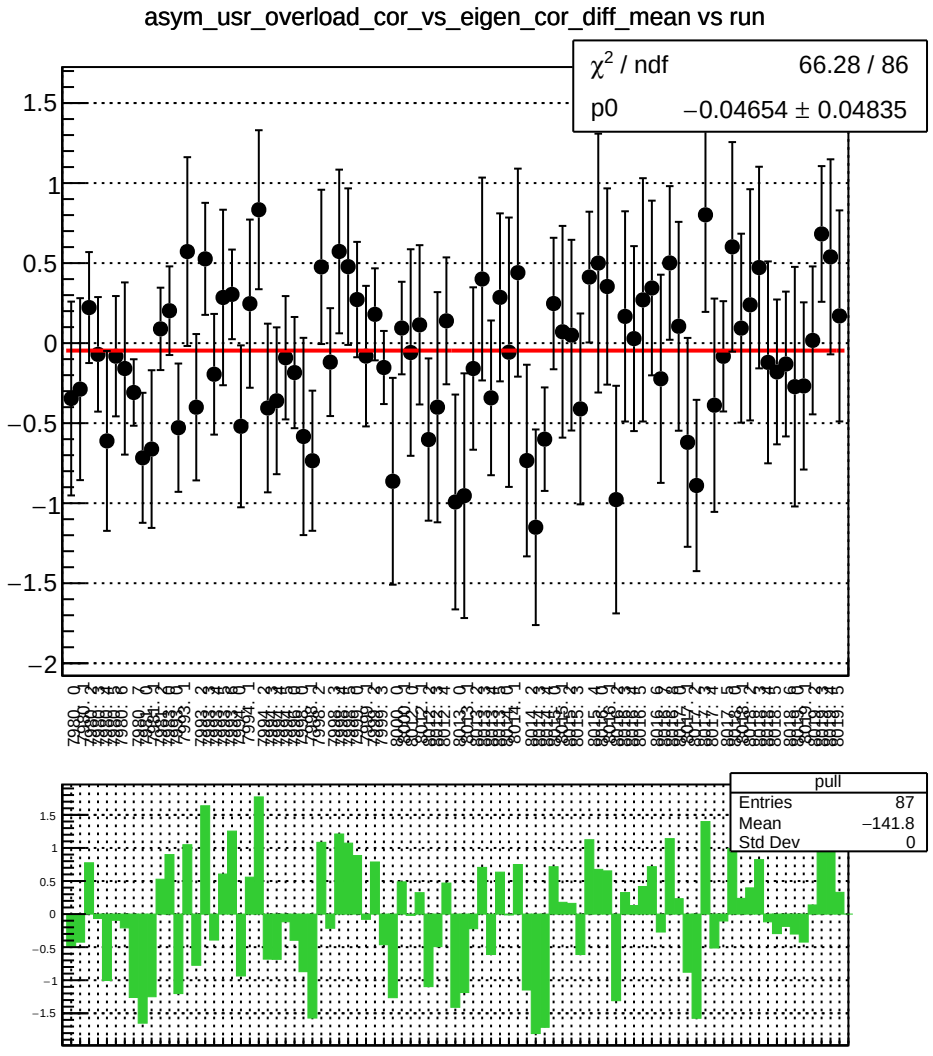

pull1D
Entries 87
Mean 0.0198
Std Dev 0.9798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

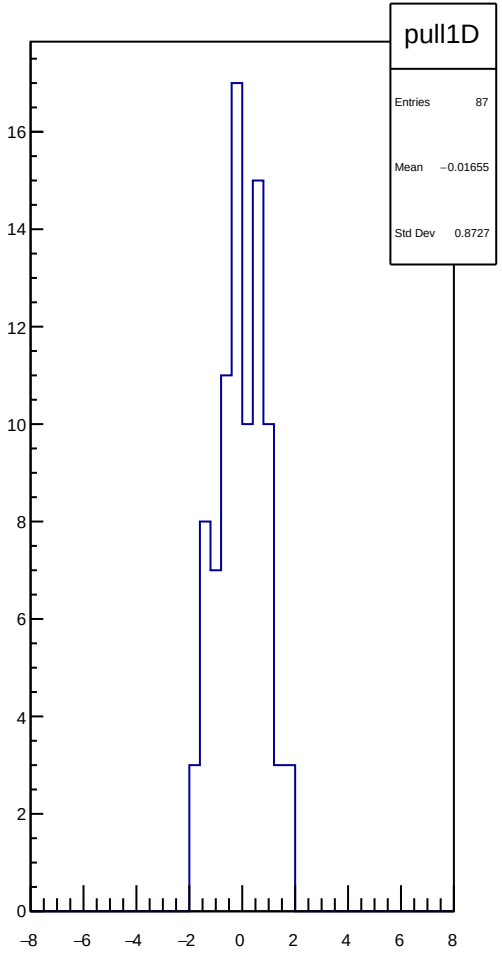

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.326e+05 / 86
p0 1.555e−10 ± 1.464e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

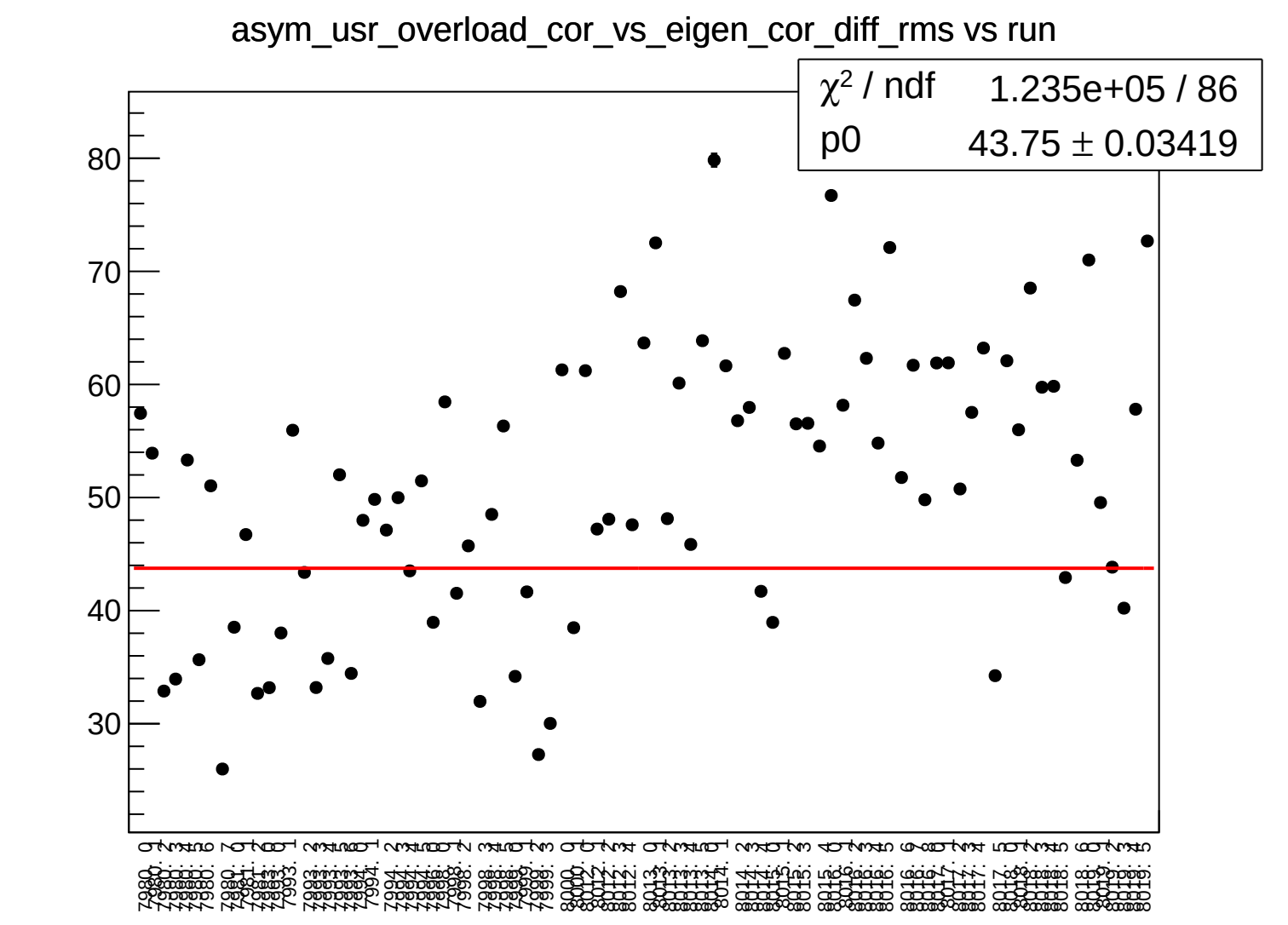

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 66.28 / 86
p0 −0.04654 ± 0.04835
pull
Entries 87
Mean −141.8
Std Dev 0

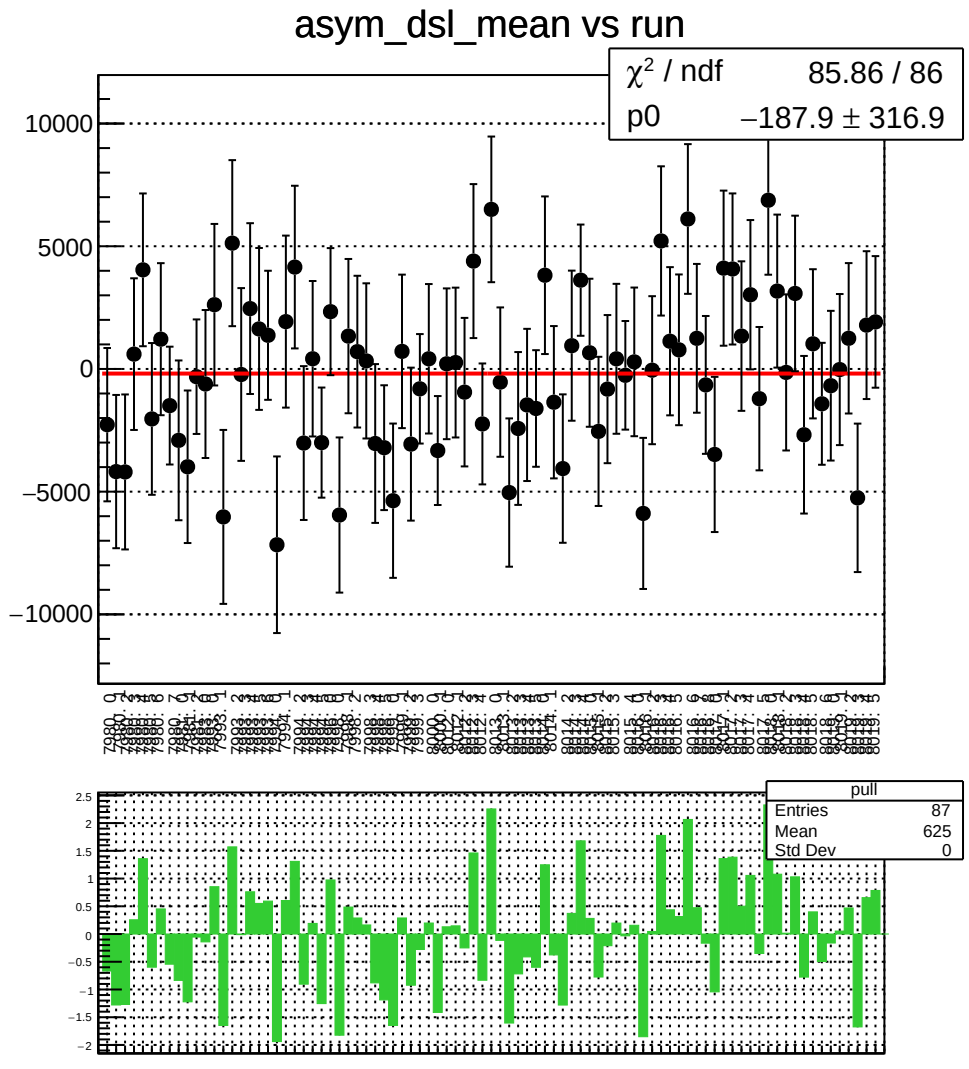

pull1D
Entries 87
Mean −0.01655
Std Dev 0.8727

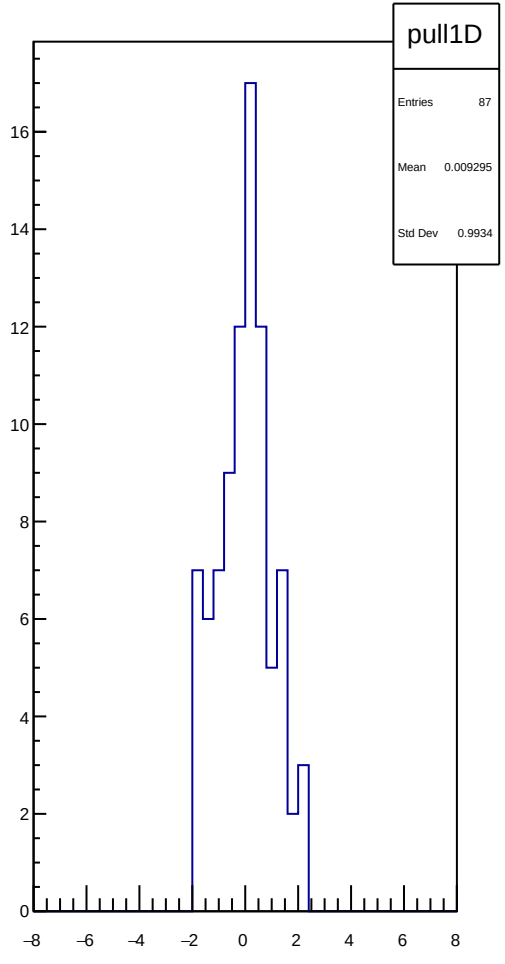

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.235e+05 / 86
p0 43.75 ± 0.03419
80
70
60
50
40
30

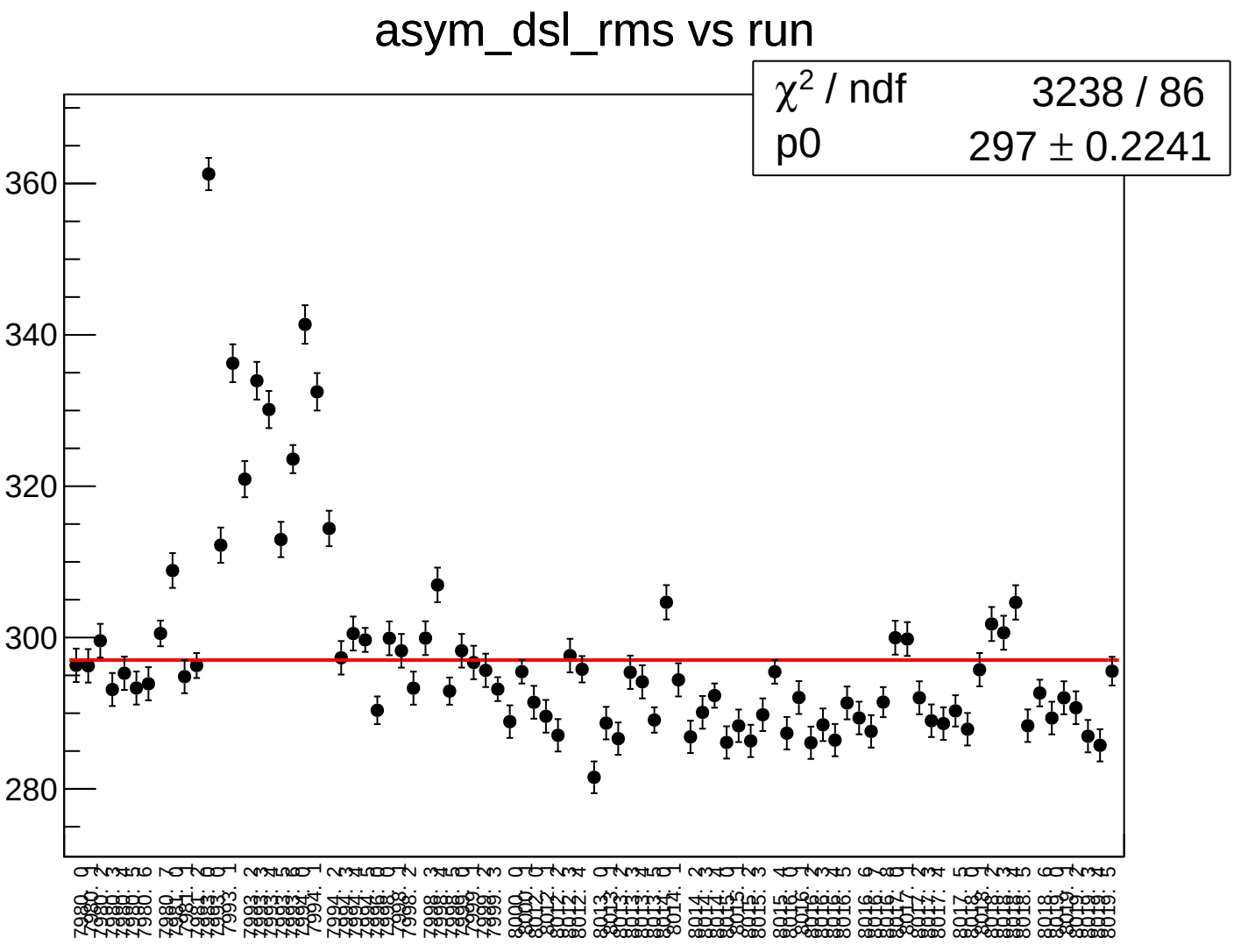

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.28 / 86
p0 −0.04654 ± 0.04835
pull
Entries 87
Mean −141.8
Std Dev 0

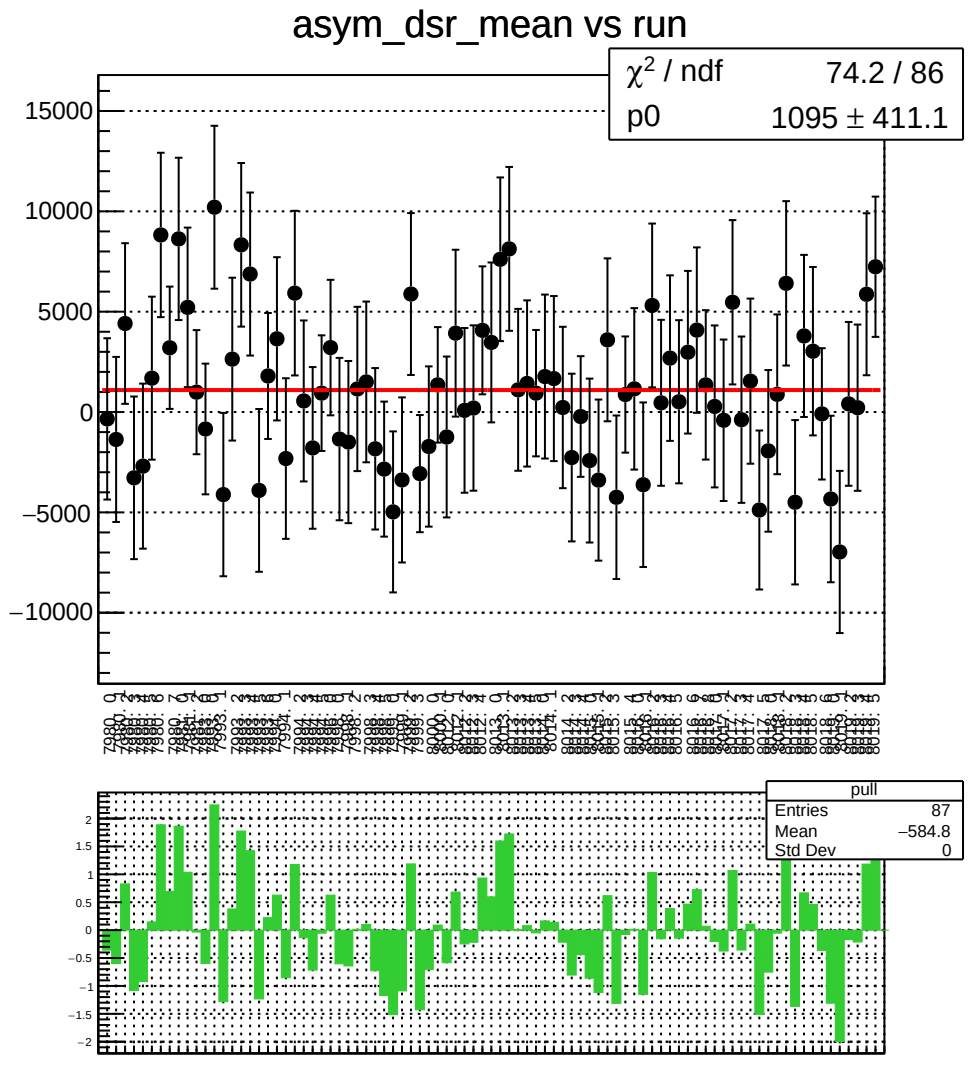

pull1D
Entries 87
Mean −0.01655
Std Dev 0.8727

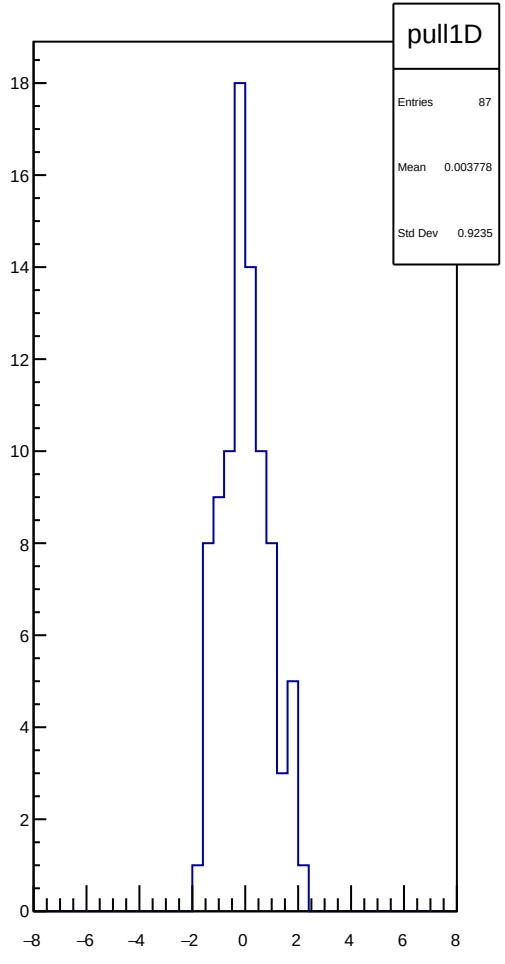

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.235e+05 / 86
p0 43.75 ± 0.03419
80
70
60
50
40
30

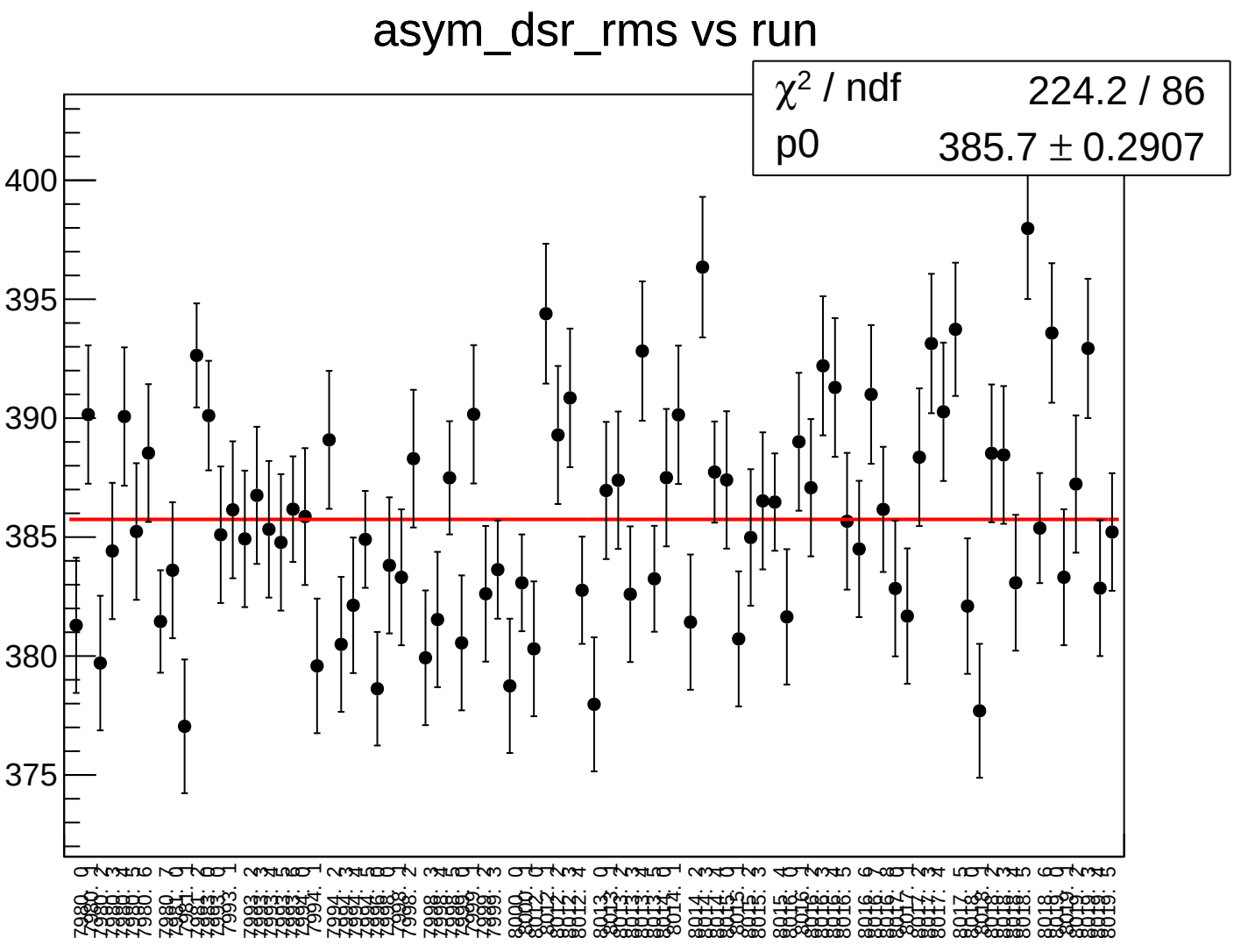

asym_dsl_mean vs run
χ² / ndf 85.86 / 86
p0 −187.9 ± 316.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 625
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

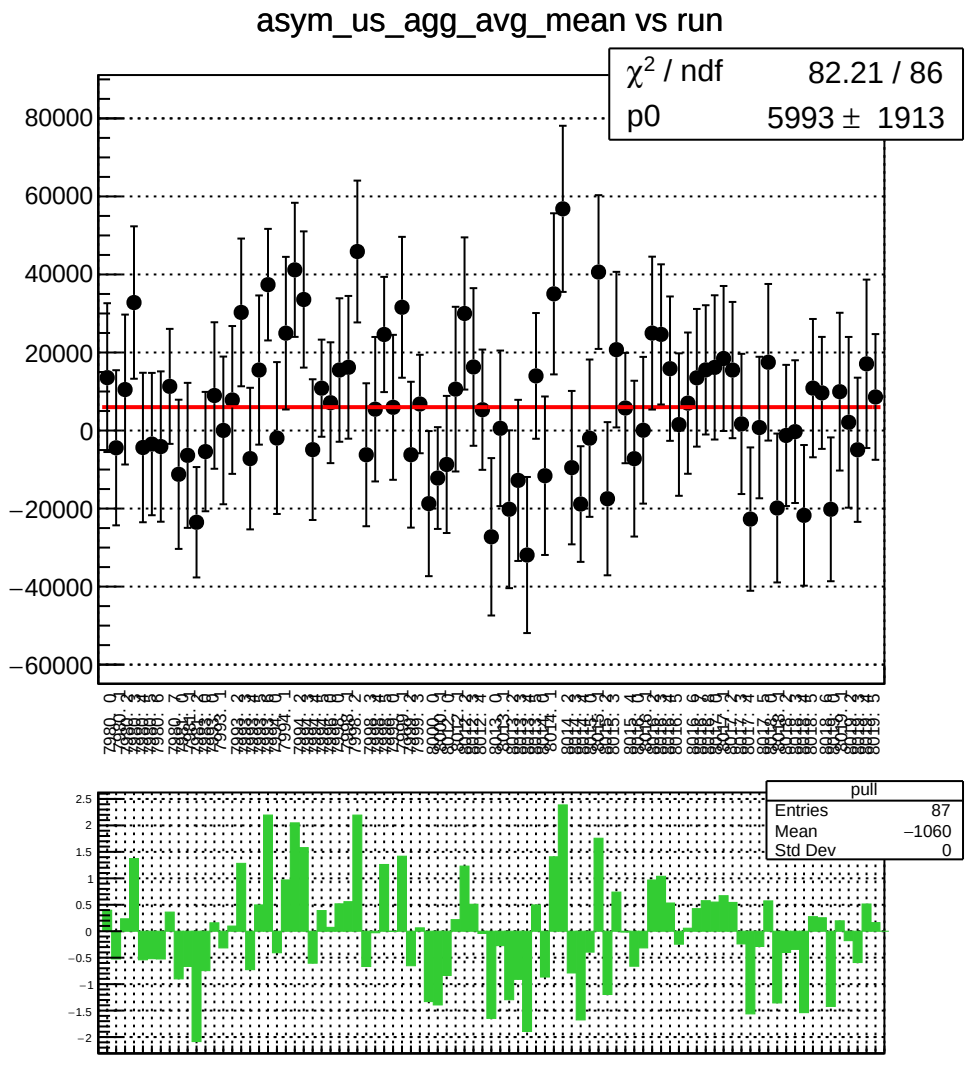

pull1D
Entries 87
Mean 0.009295
Std Dev 0.9934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

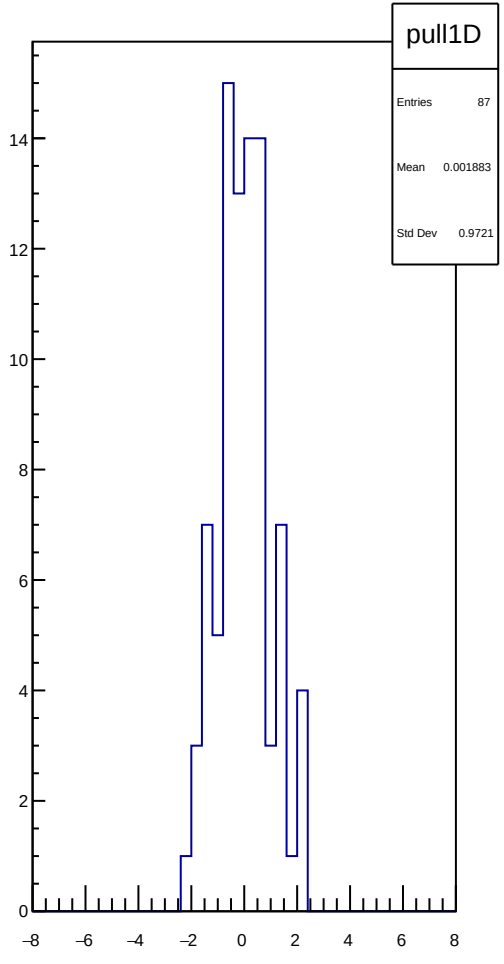

asym_dsl_rms vs run
χ^2 / ndf 3238 / 86
p0 297 ± 0.2241
360
340
320
300
280

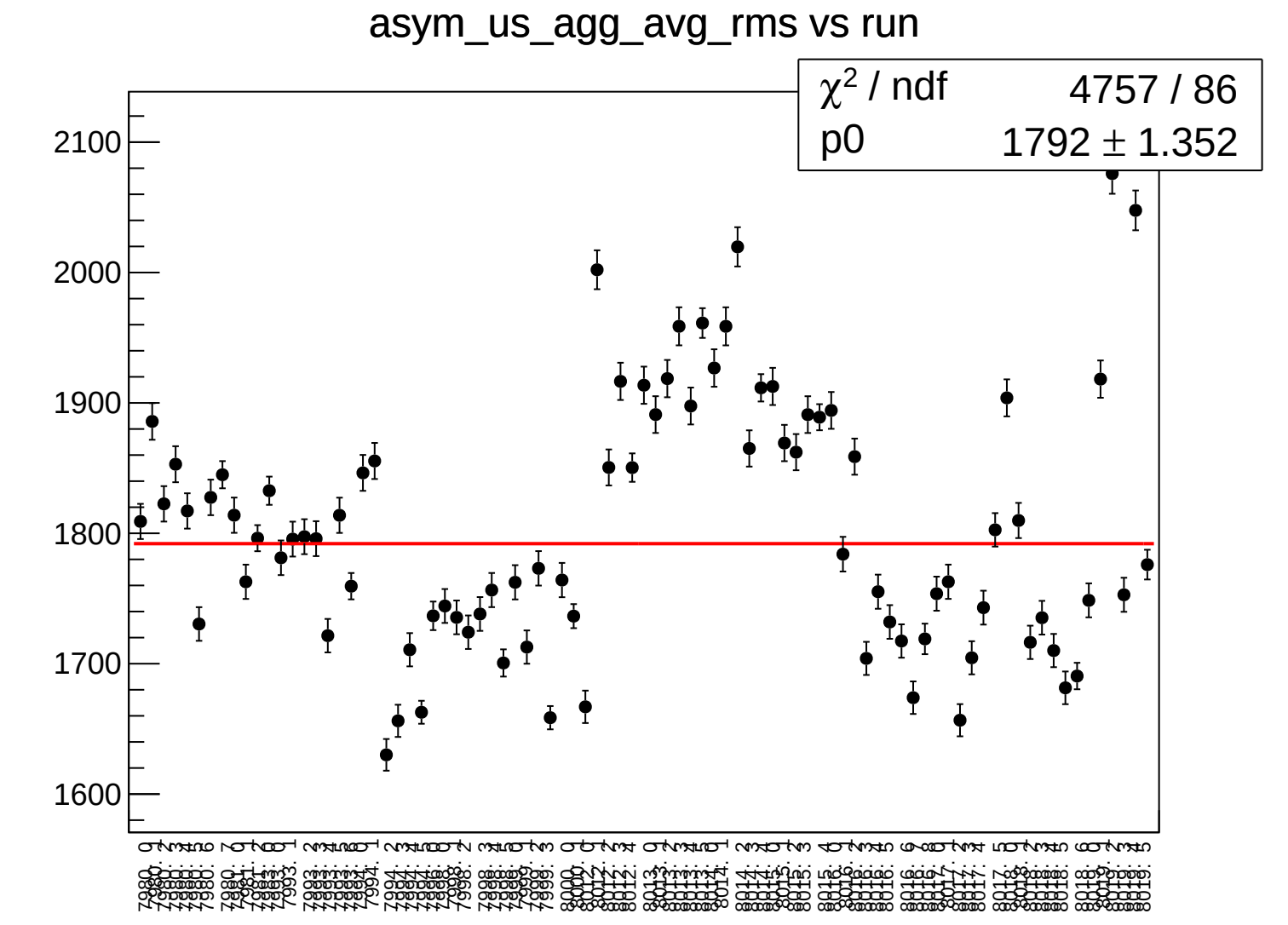

asym_dsr_mean vs run
χ² / ndf 74.2 / 86
p0 1095 ± 411.1
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −584.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

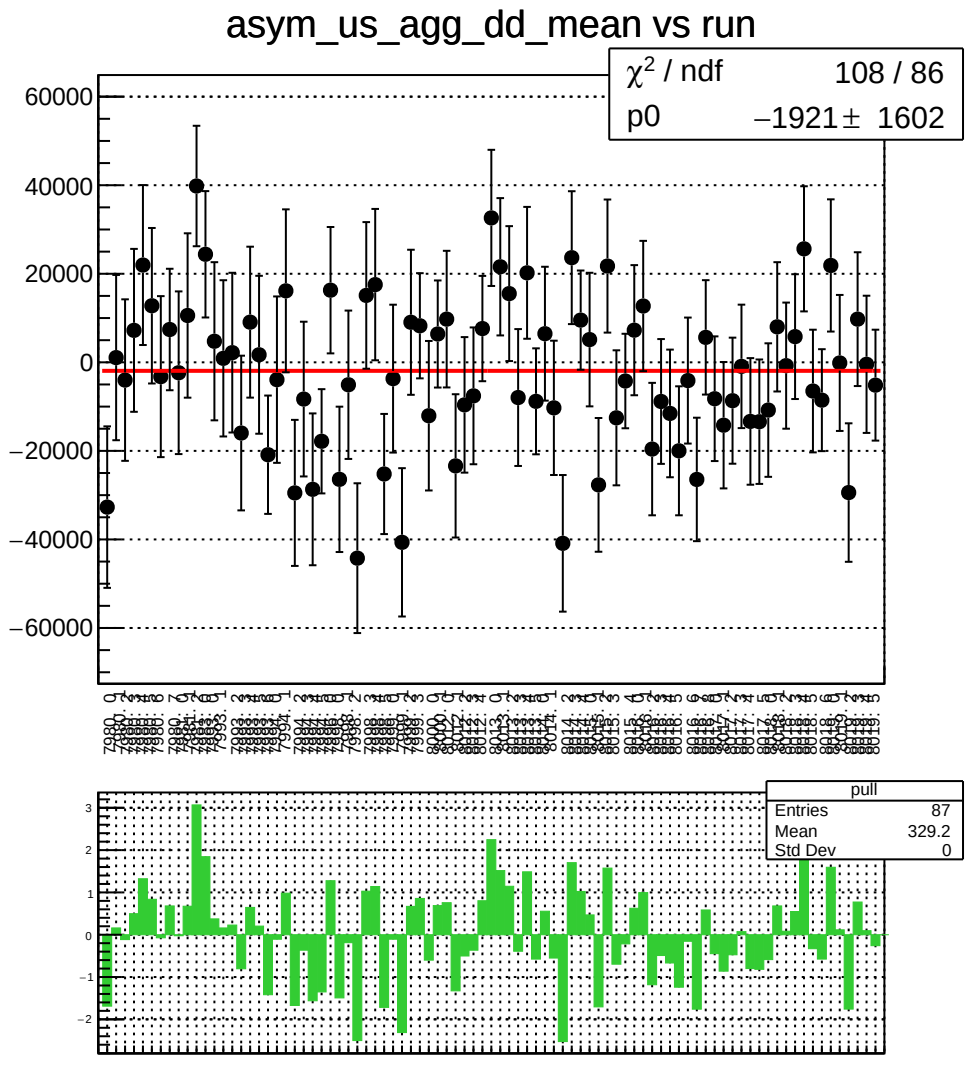

pull1D
Entries 87
Mean 0.003778
Std Dev 0.9235
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

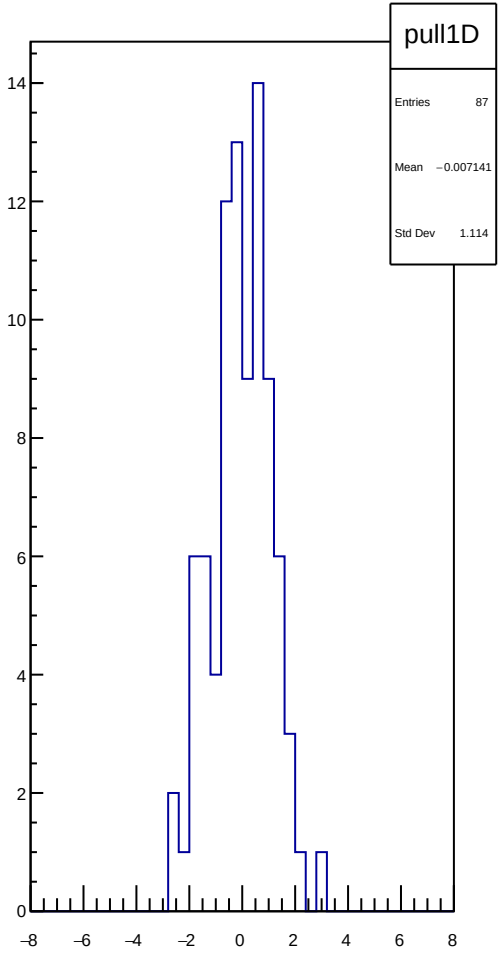

asym_dsr_rms vs run
χ² / ndf 224.2 / 86
p0 385.7 ± 0.2907
400
395
390
385
380
375

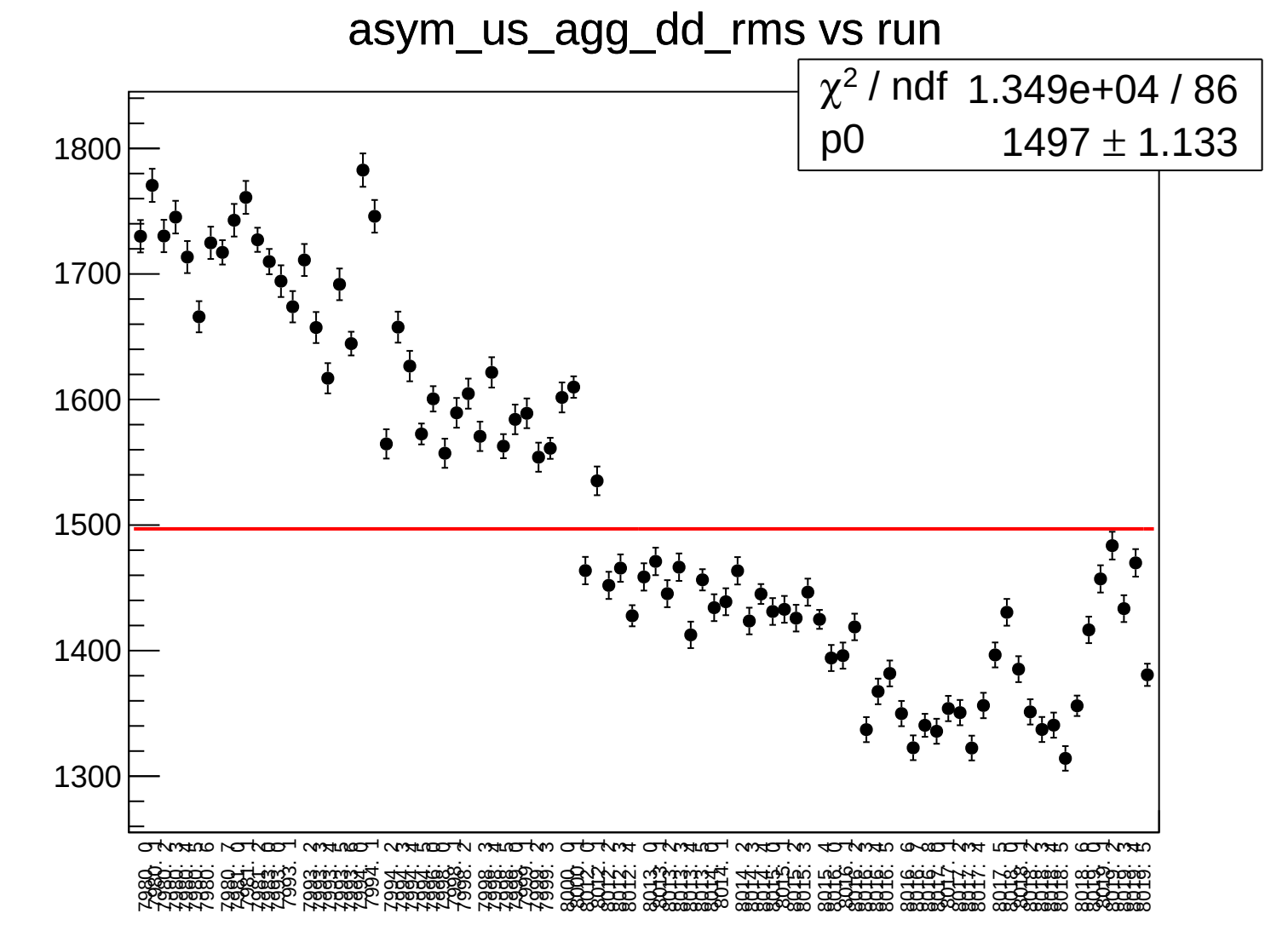

asym_us_agg_avg_mean vs run
χ² / ndf 82.21 / 86
p0 5993 ± 1913
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −1060
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

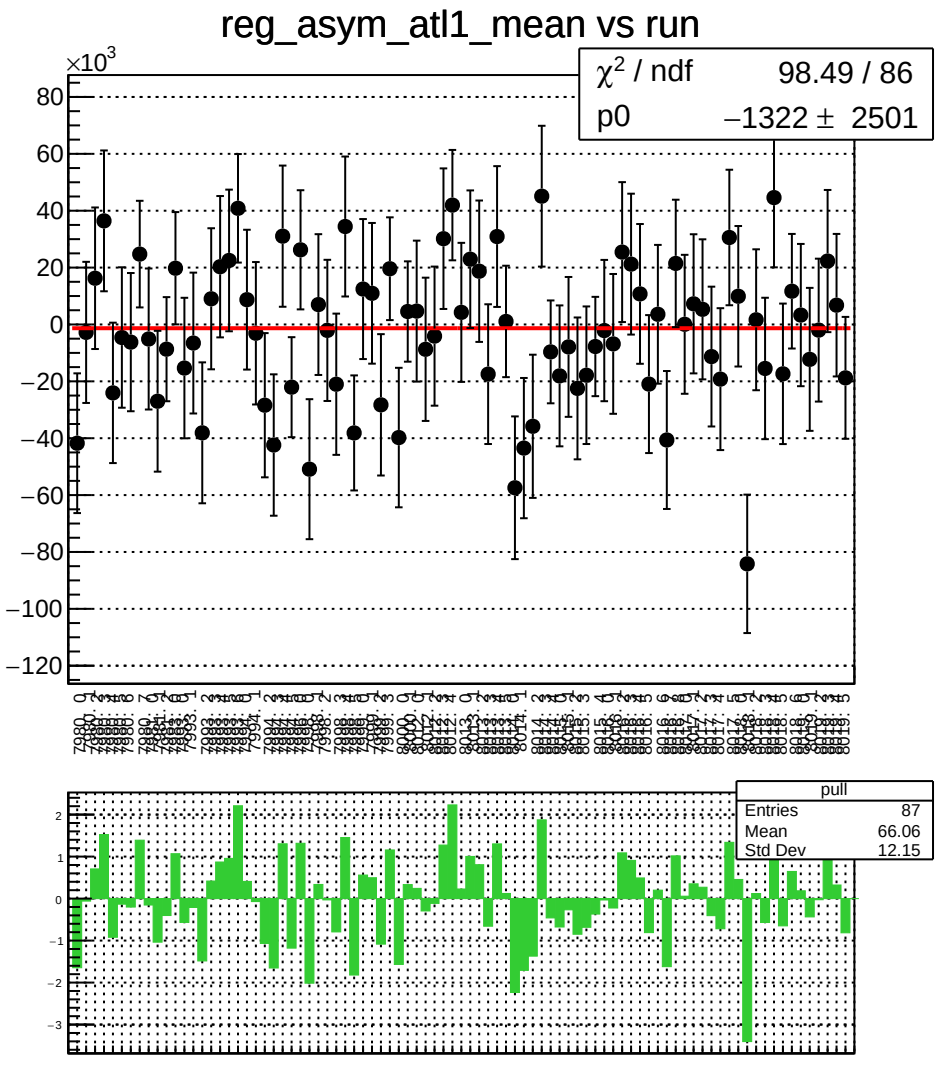

pull1D
Entries 87
Mean 0.001883
Std Dev 0.9721
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

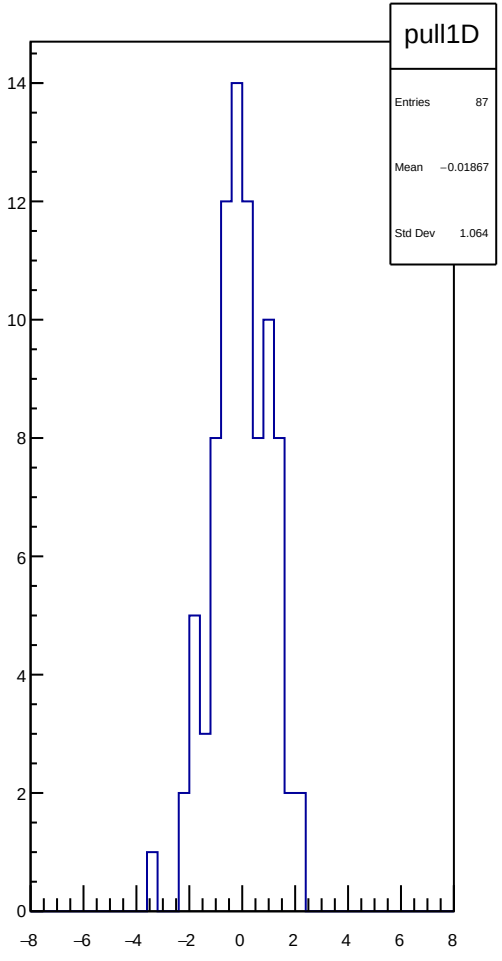

asym_us_agg_avg_rms vs run
χ² / ndf 4757 / 86
p0 1792 ± 1.352
2100
2000
1900
1800
1700
1600

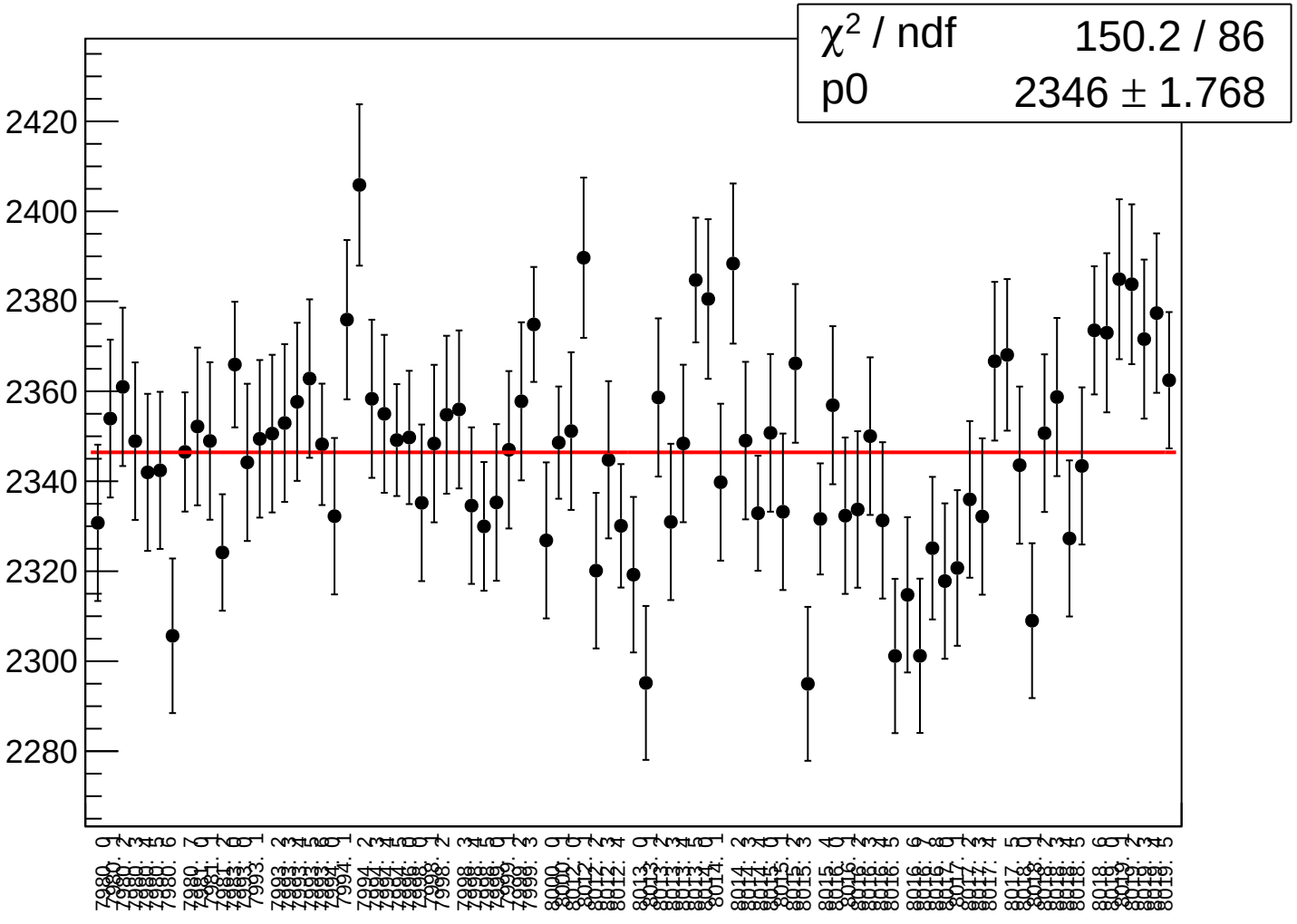

asym_us_agg_dd_mean vs run
χ² / ndf 108 / 86
p0 −1921 ± 1602
pull
Entries 87
Mean 329.2
Std Dev 0

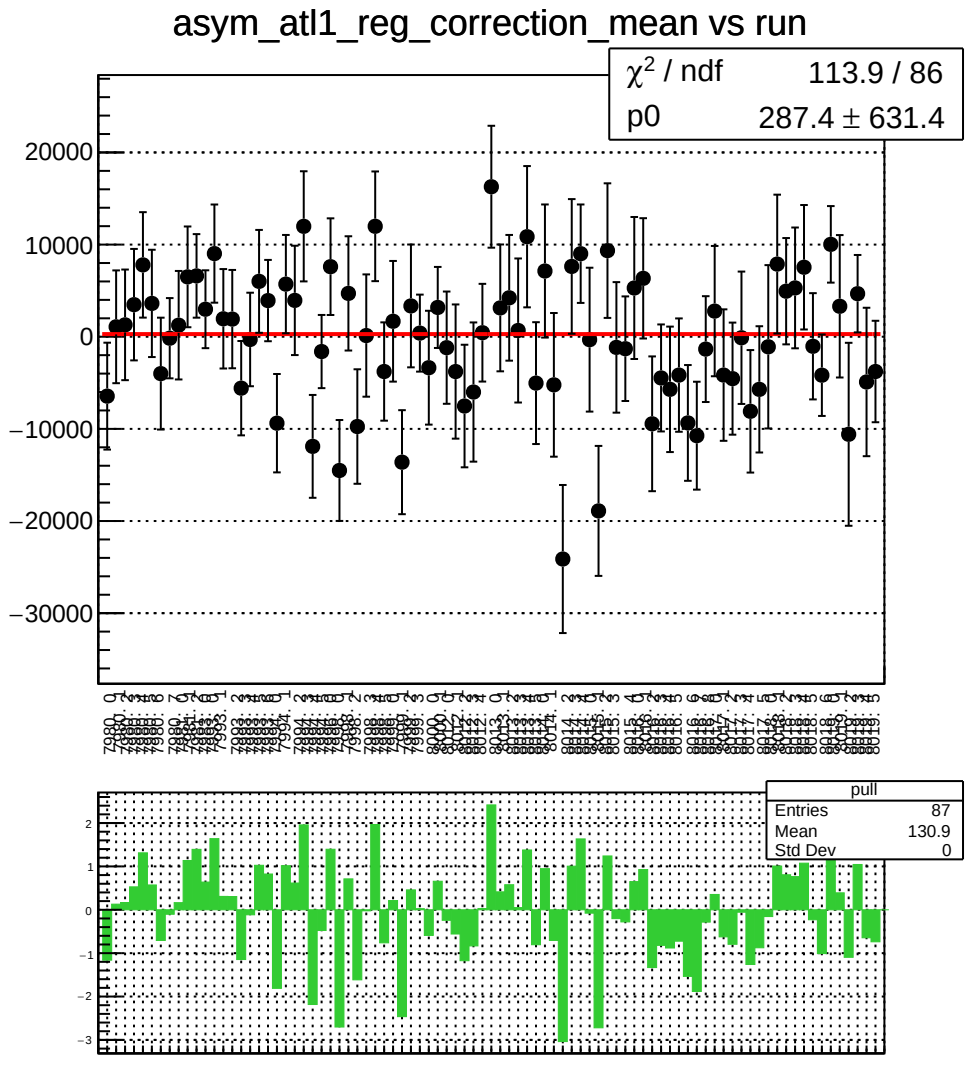

pull1D
Entries 87
Mean −0.007141
Std Dev 1.114

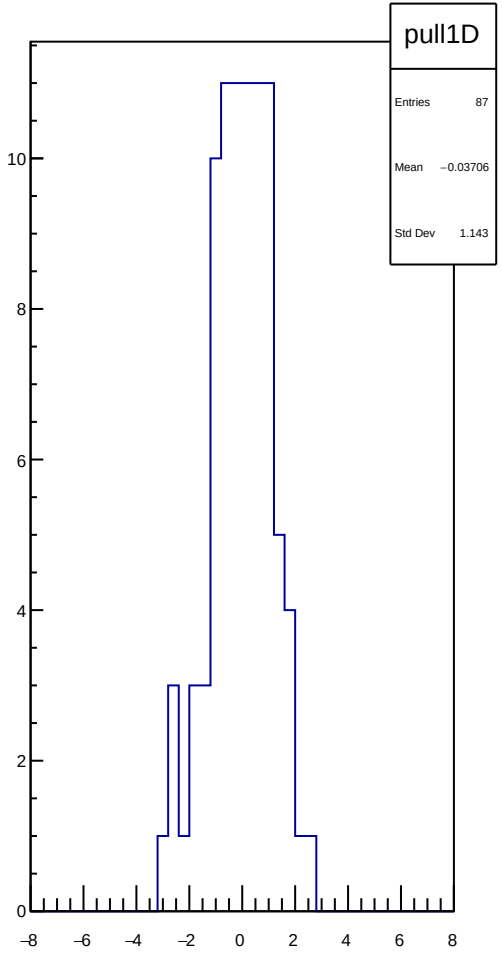

asym_us_agg_dd_rms vs run
χ² / ndf 1.349e+04 / 86
p0 1497 ± 1.133
1800
1700
1600
1500
1400
1300

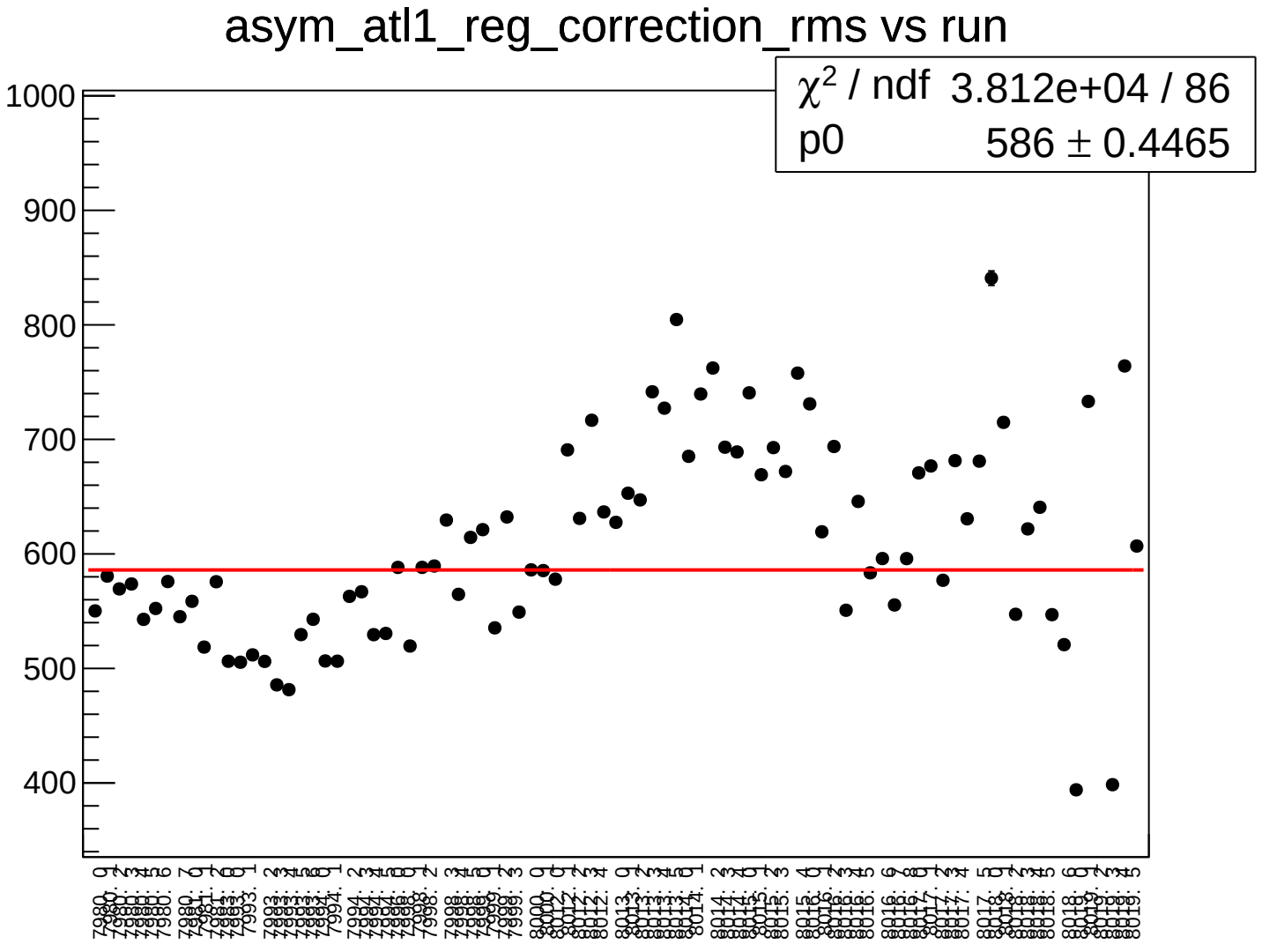

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 98.49 / 86
p0 −1322 ± 2501
pull
Entries 87
Mean 66.06
Std Dev 12.15

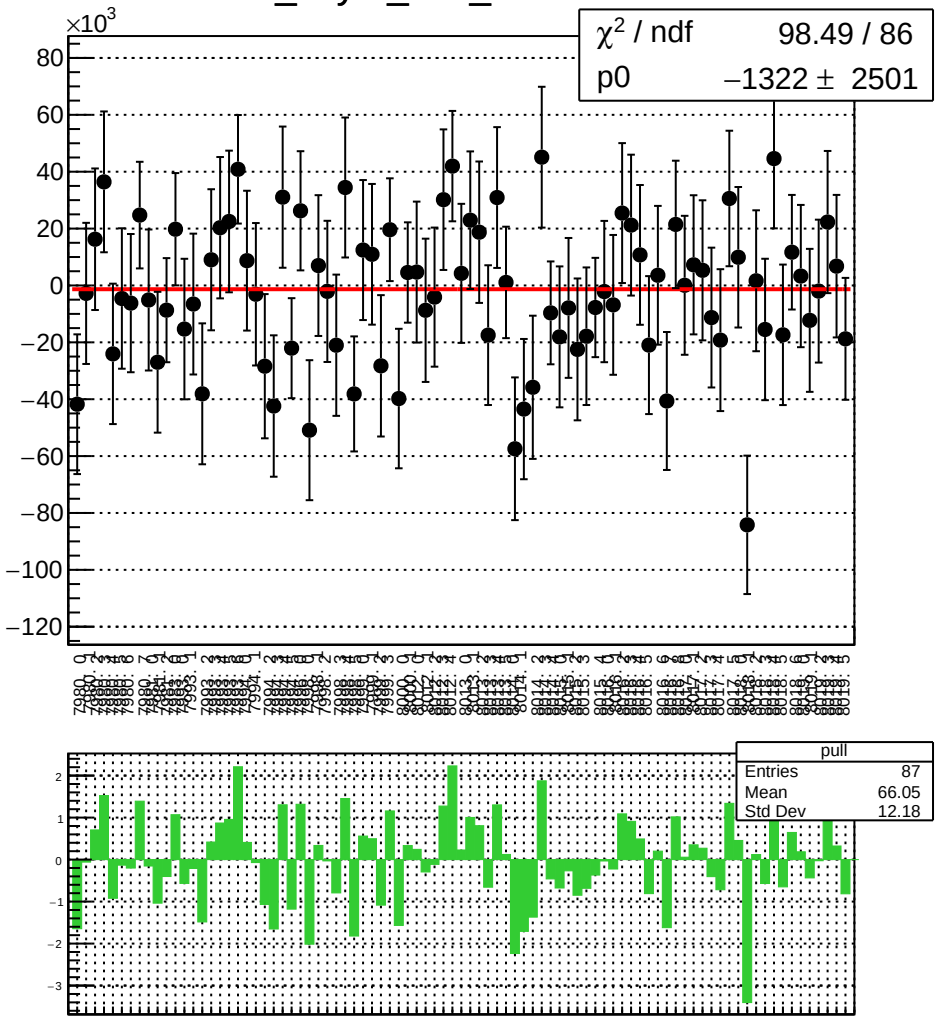

pull1D
Entries 87
Mean −0.01867
Std Dev 1.064

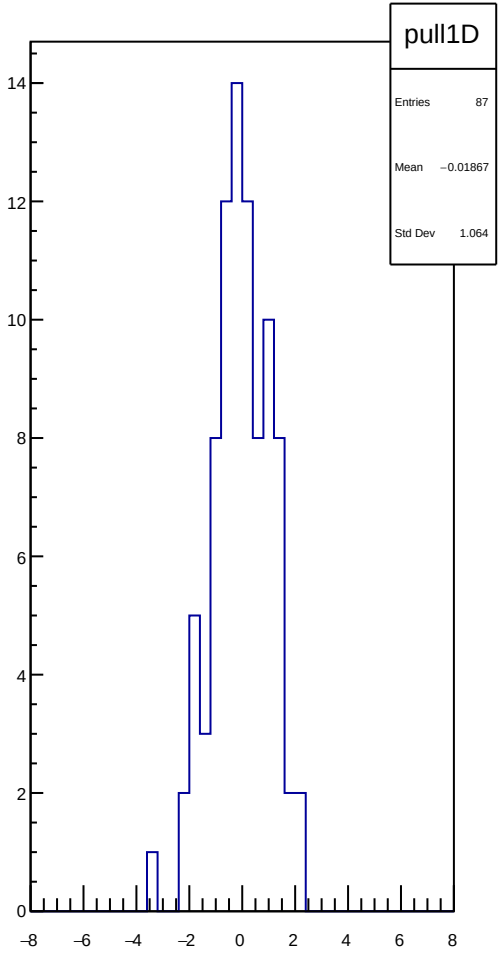

reg_asym_atl1_rms vs run
χ^2 / ndf 150.2 / 86
p0 2346 ± 1.768
2420
2400
2380
2360
2340
2320
2300
2280

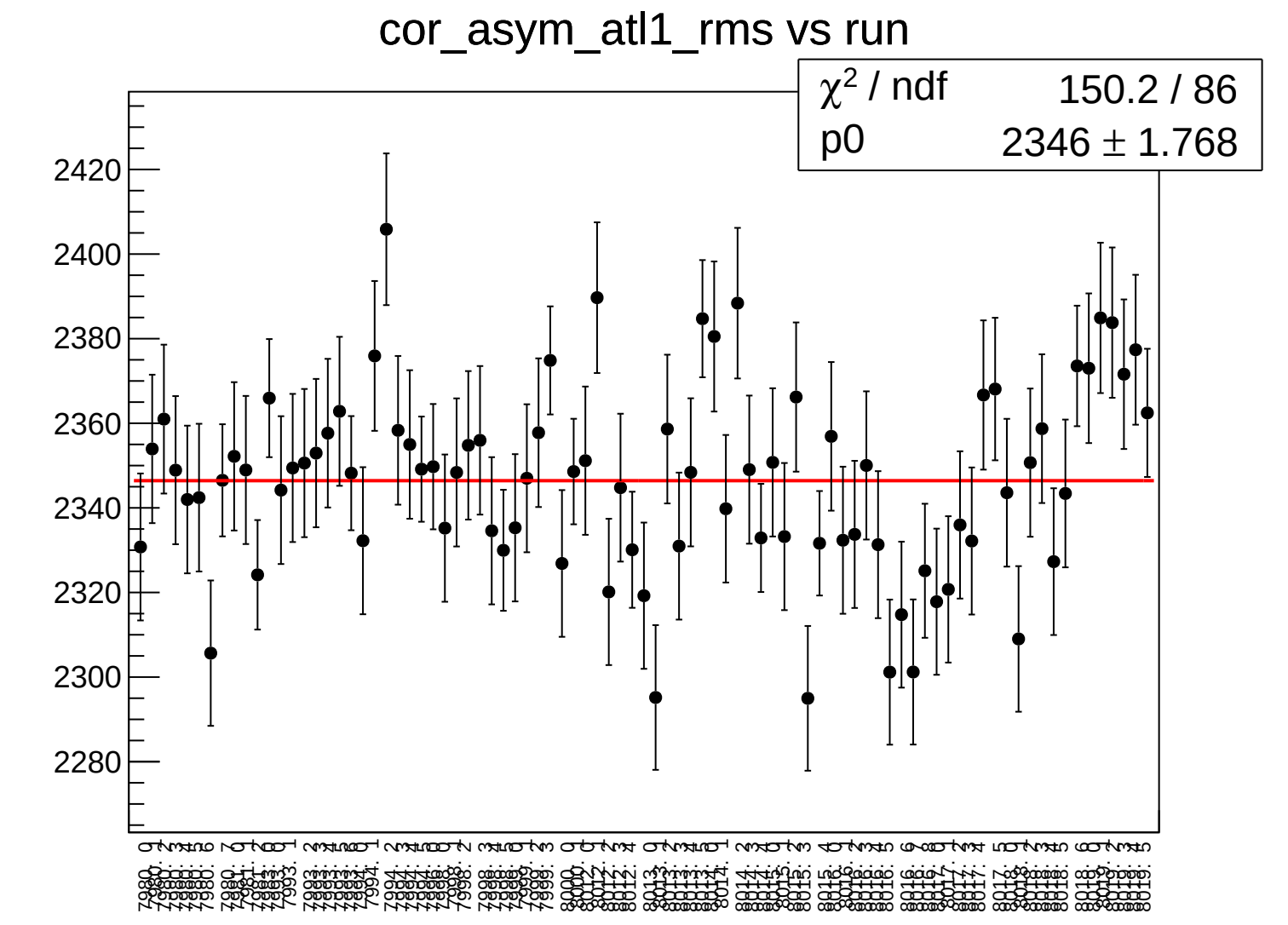

asym_atl1_reg_correction_mean vs run
χ² / ndf 113.9 / 86
p0 287.4 ± 631.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 130.9
Std Dev 0
2
1
0
−1
−2
−3

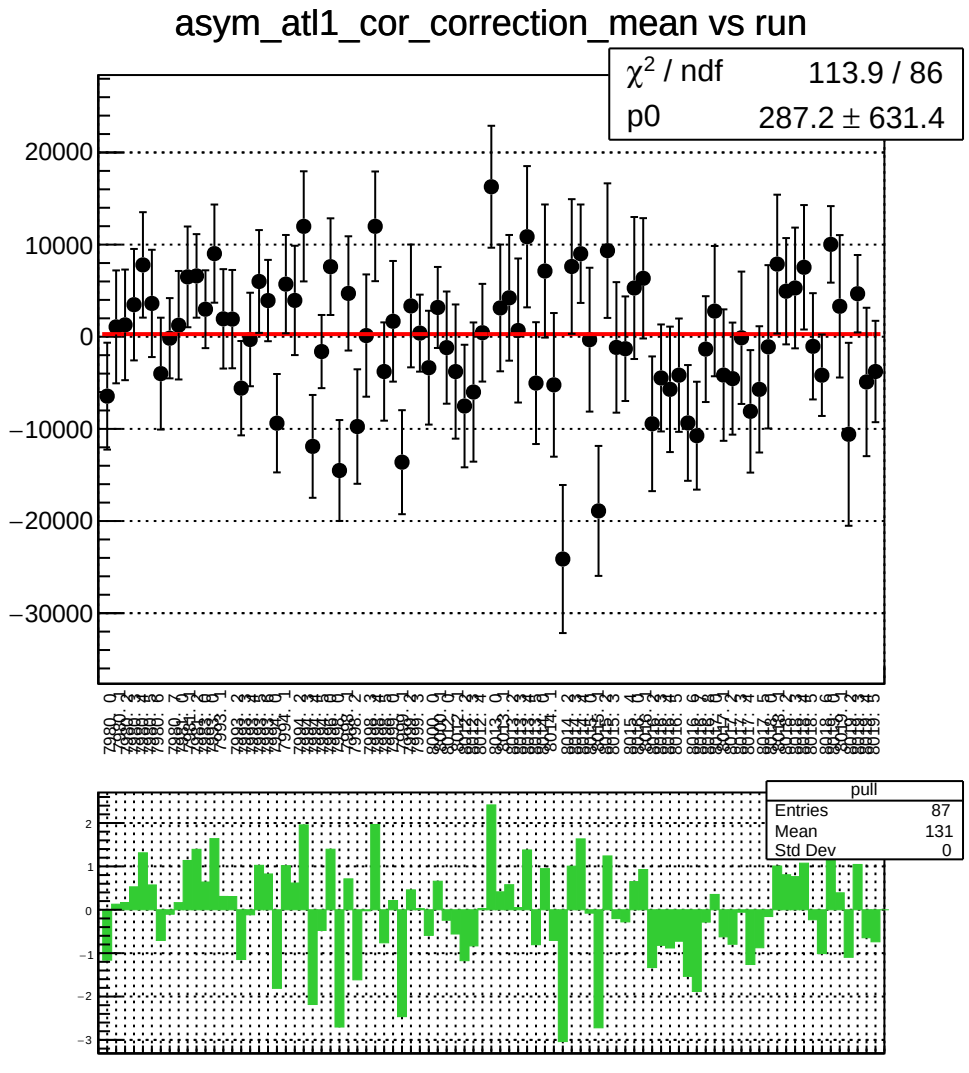

pull1D
Entries 87
Mean −0.03706
Std Dev 1.143
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

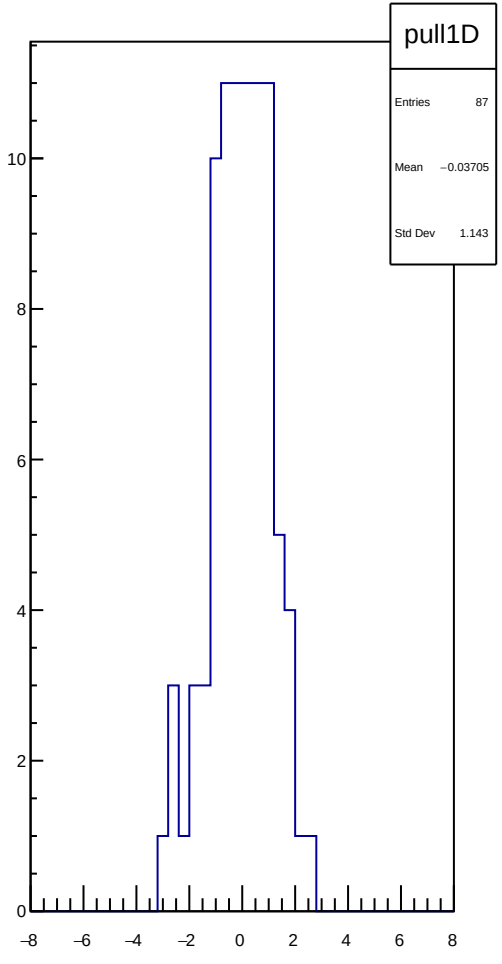

asym_atl1_reg_correction_rms vs run
χ² / ndf 3.812e+04 / 86
p0 586 ± 0.4465
1000
900
800
700
600
500
400

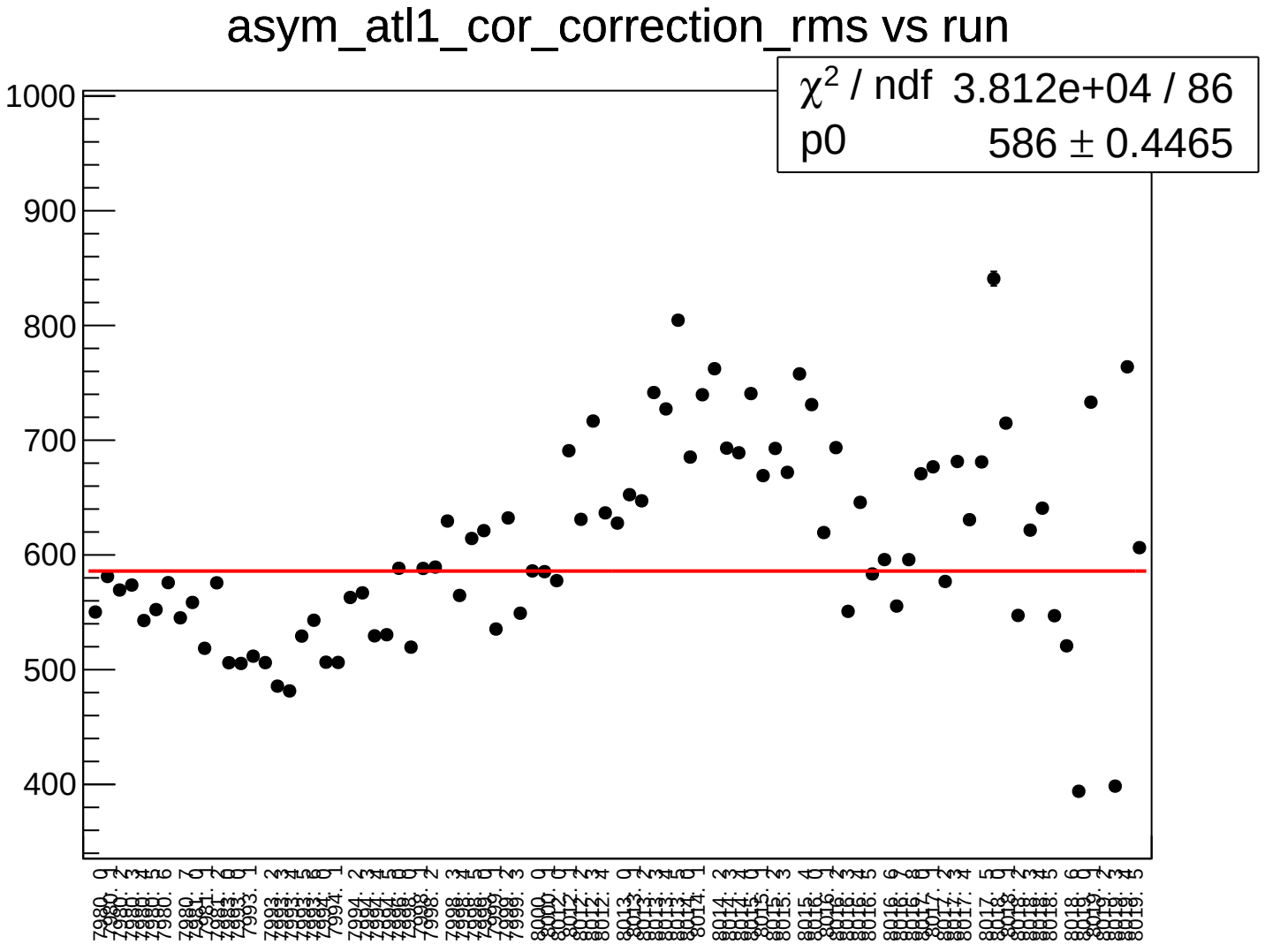

cor_asym_atl1_mean vs run
χ² / ndf 98.49 / 86
p0 −1322 ± 2501
×10³
pull
Entries 87
Mean 66.05
Std Dev 12.18

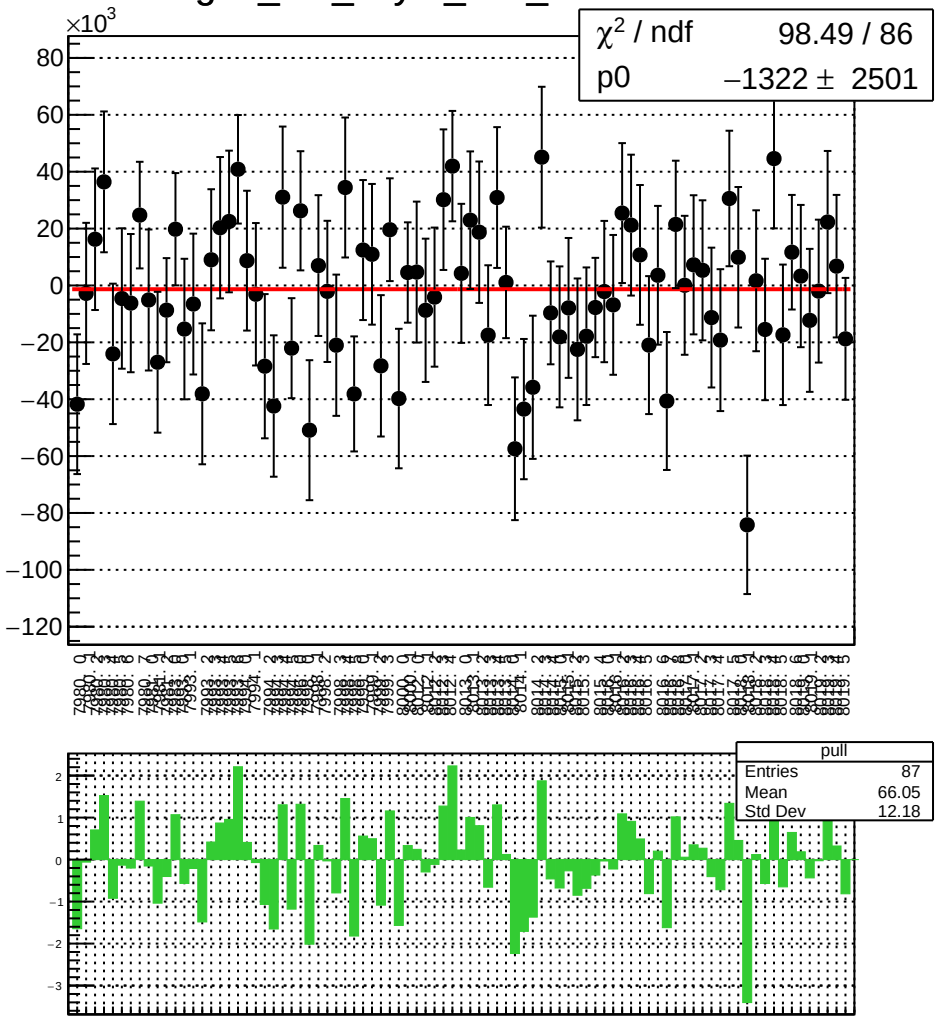

pull1D
Entries 87
Mean −0.01867
Std Dev 1.064

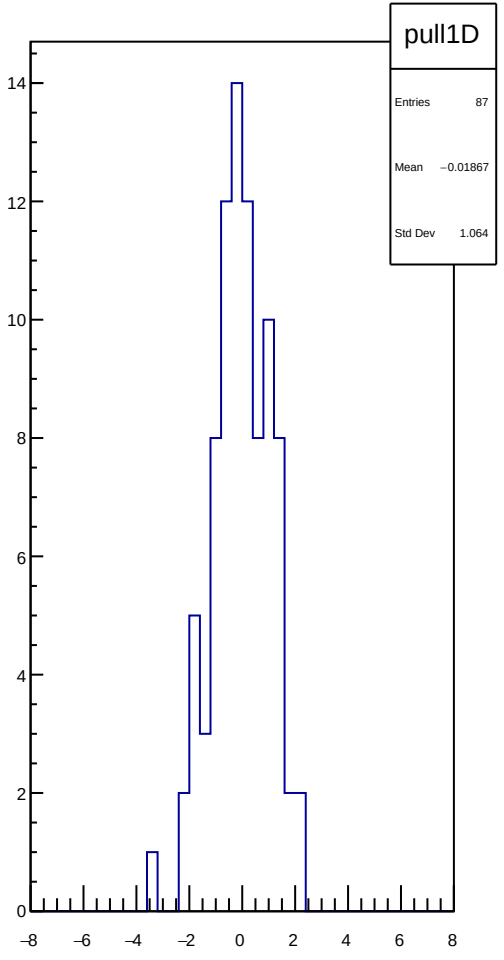

cor_asym_atl1_rms vs run
χ^2 / ndf 150.2 / 86
p0 2346 ± 1.768
2420
2400
2380
2360
2340
2320
2300
2280

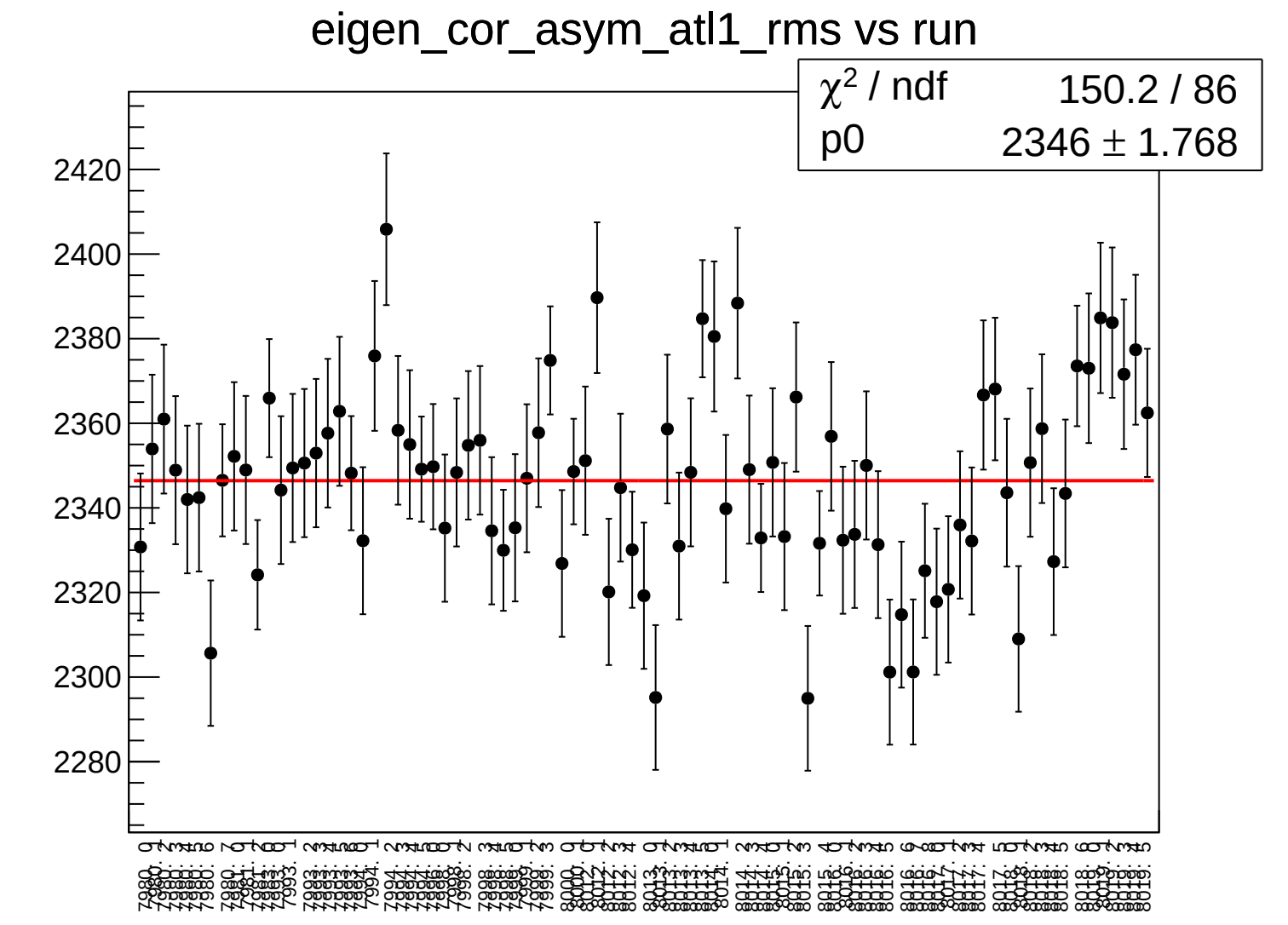

asym_atl1_cor_correction_mean vs run
χ² / ndf 113.9 / 86
p0 287.2 ± 631.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 131
Std Dev 0
2
1
0
−1
−2
−3

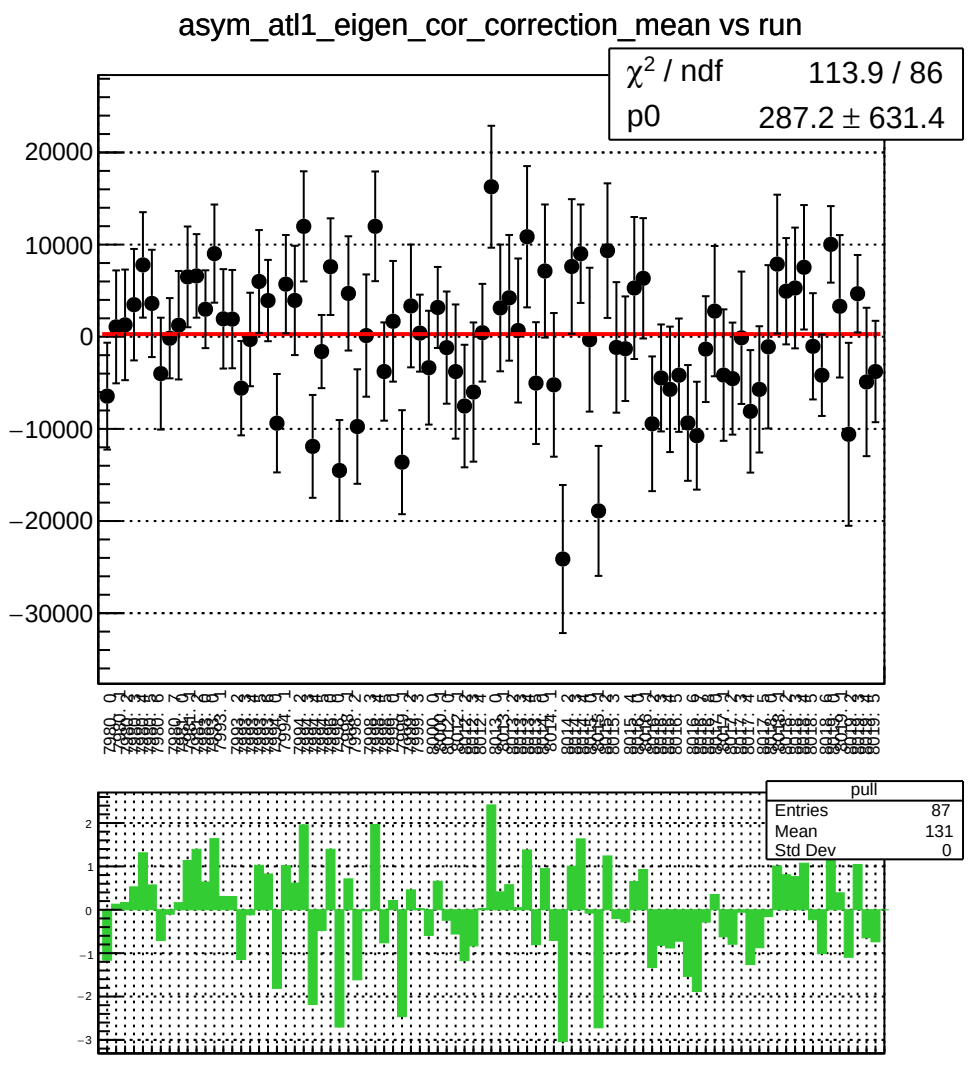

pull1D
Entries 87
Mean −0.03705
Std Dev 1.143
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

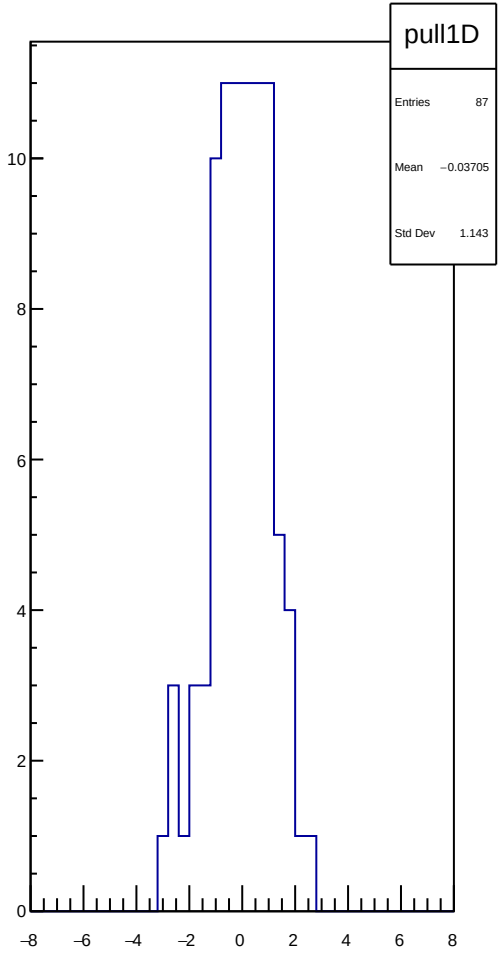

asym_atl1_cor_correction_rms vs run
χ² / ndf 3.812e+04 / 86
p0 586 ± 0.4465
1000
900
800
700
600
500
400

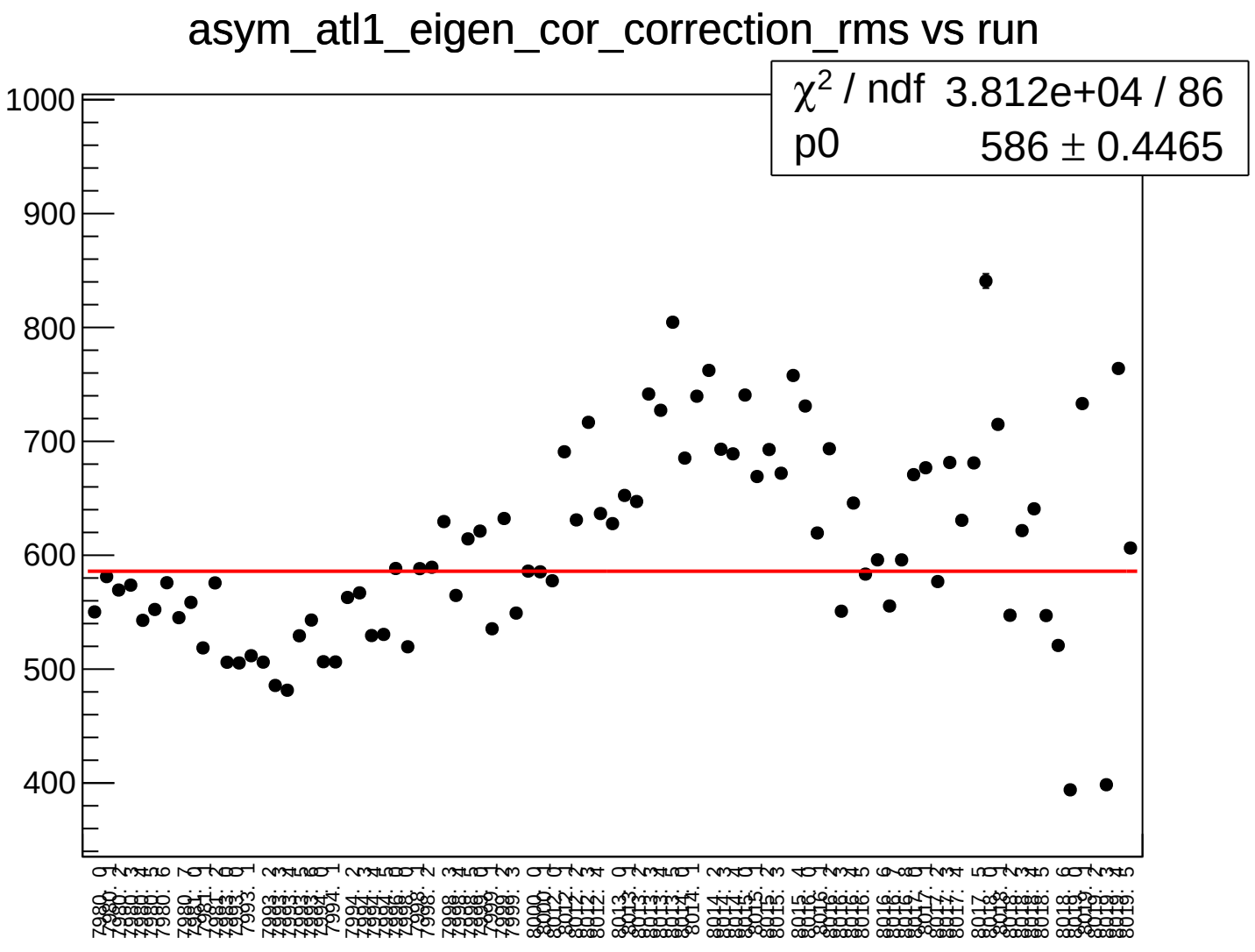

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 98.49 / 86
p0 −1322 ± 2501
pull
Entries 87
Mean 66.05
Std Dev 12.18

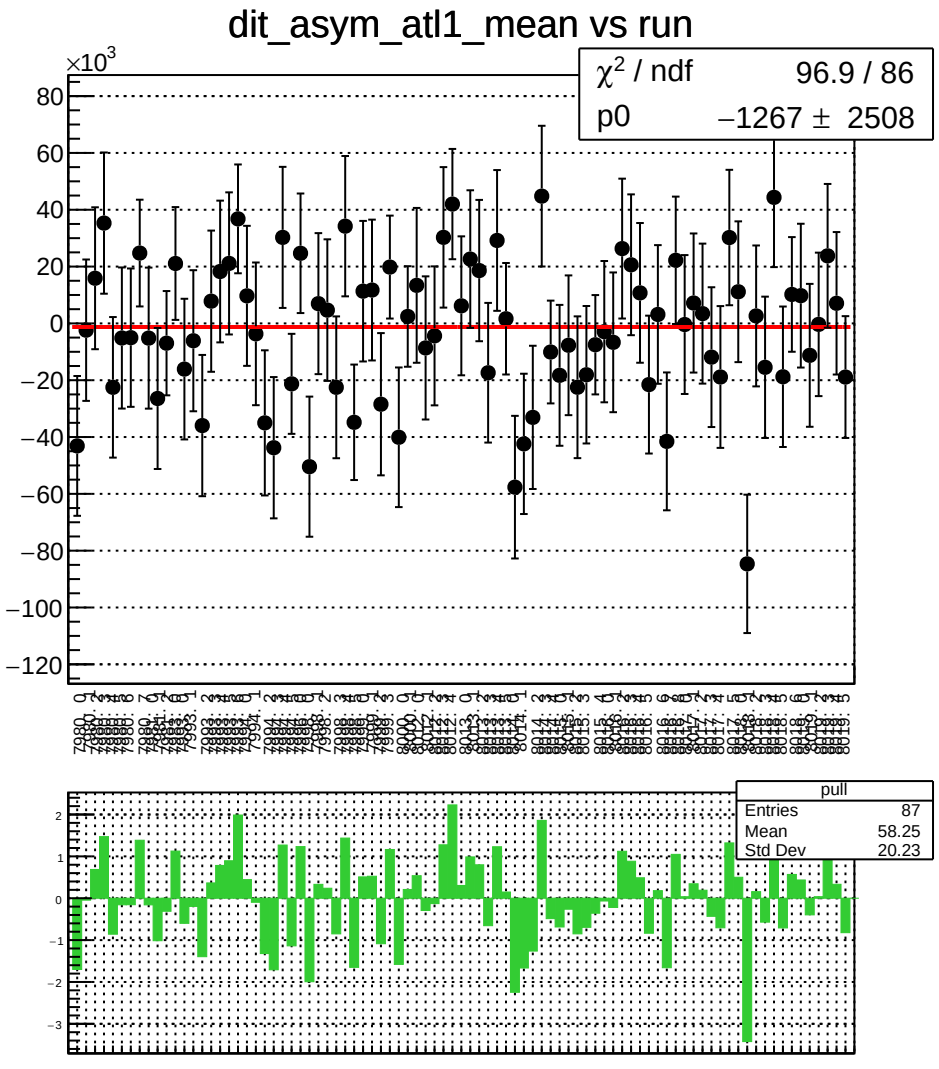

pull1D
Entries 87
Mean −0.01867
Std Dev 1.064

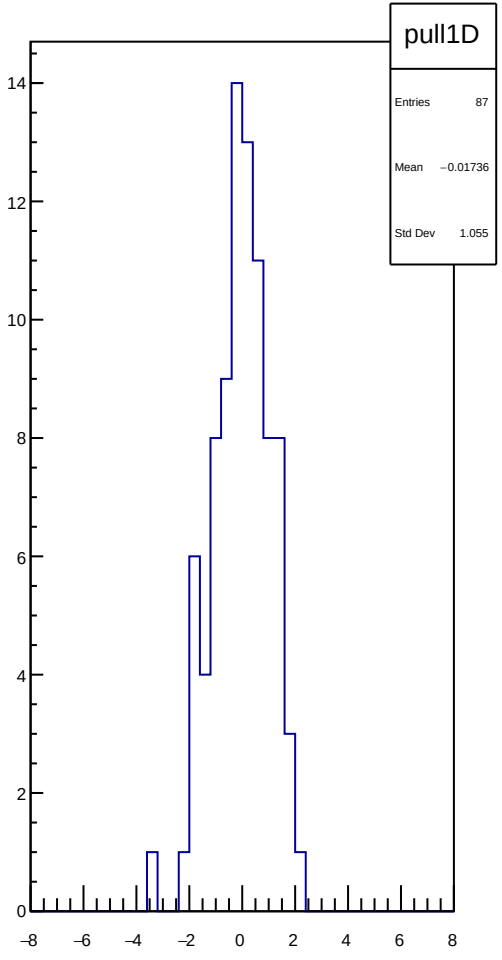

eigen_cor_asym_atl1_rms vs run
χ² / ndf 150.2 / 86
p0 2346 ± 1.768
2420
2400
2380
2360
2340
2320
2300
2280

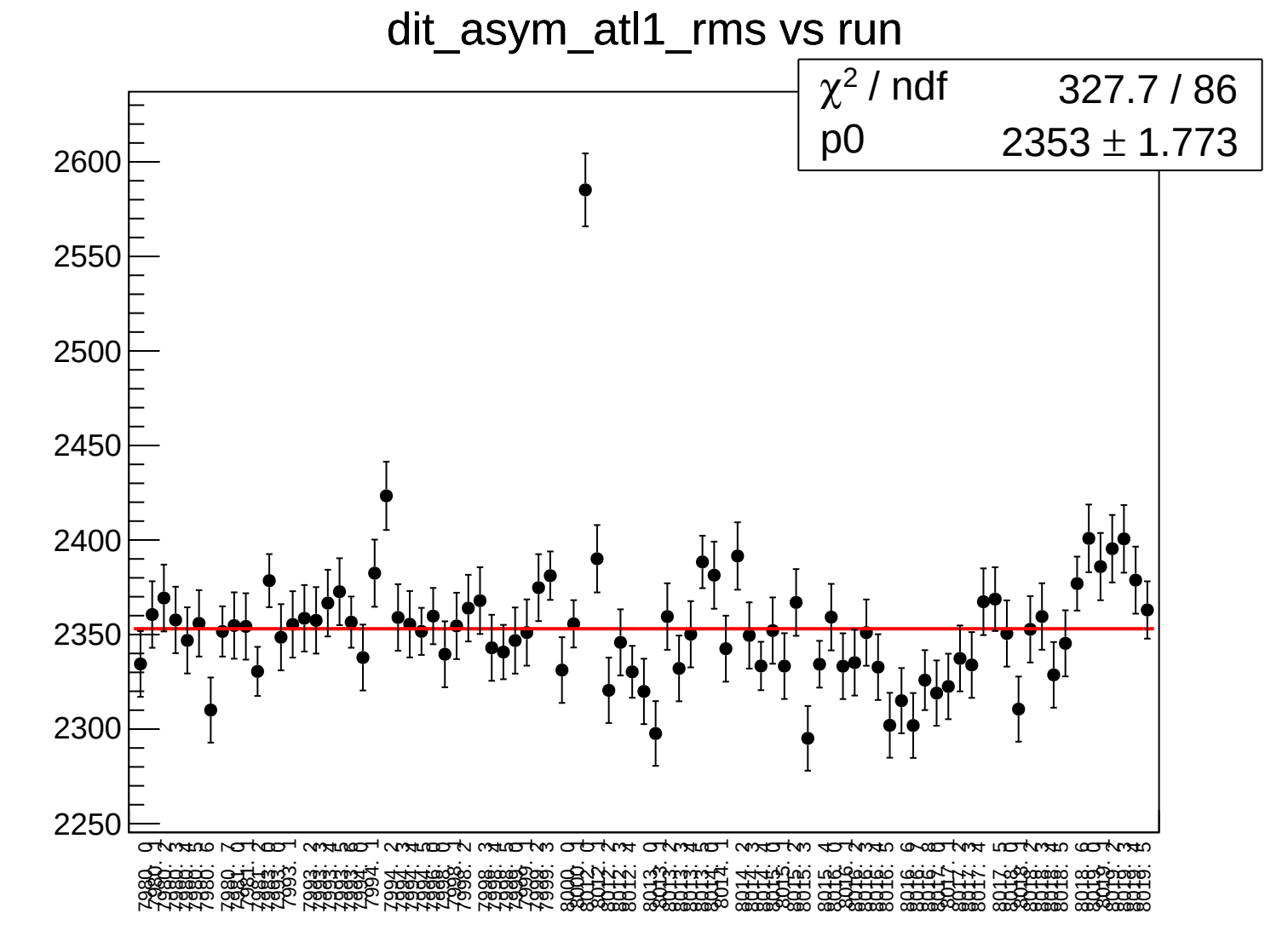

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 113.9 / 86
p0 287.2 ± 631.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 131
Std Dev 0
2
1
0
−1
−2
−3

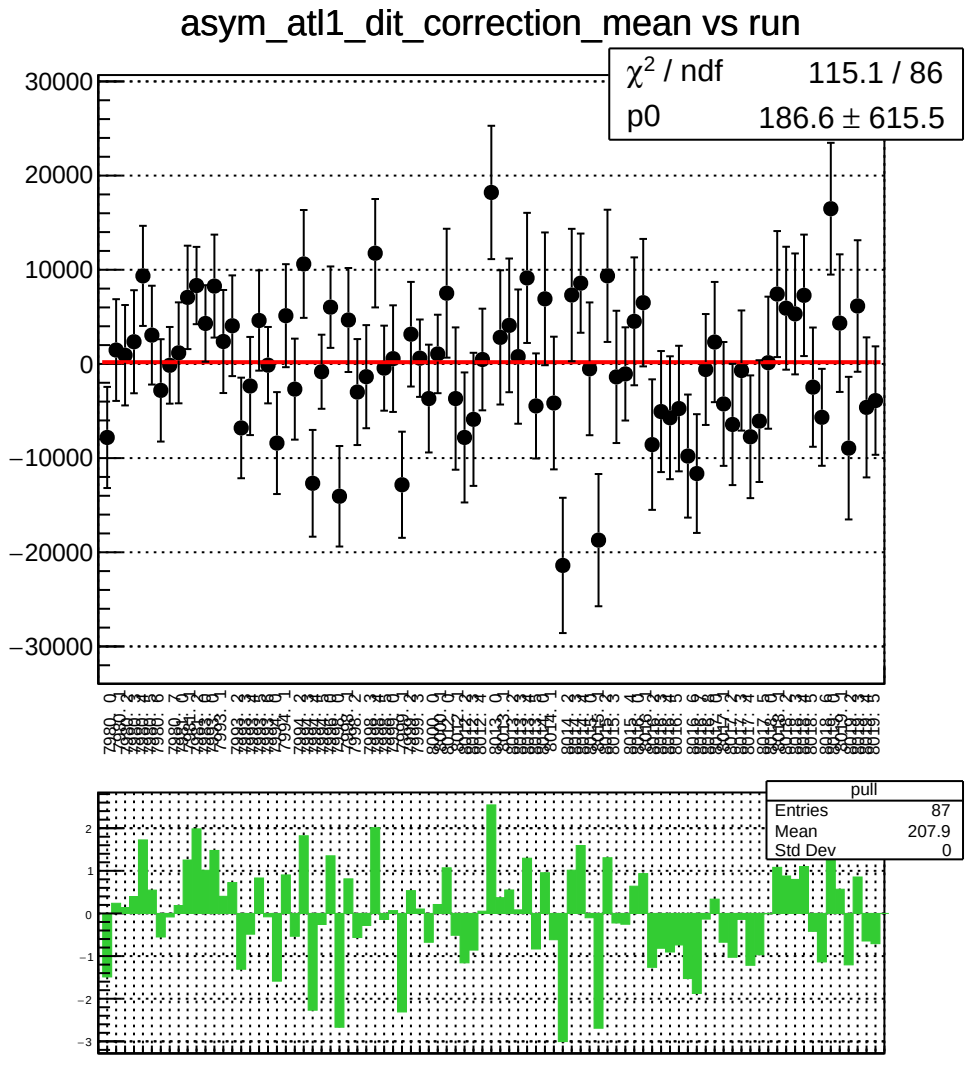

pull1D
Entries 87
Mean −0.03705
Std Dev 1.143
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

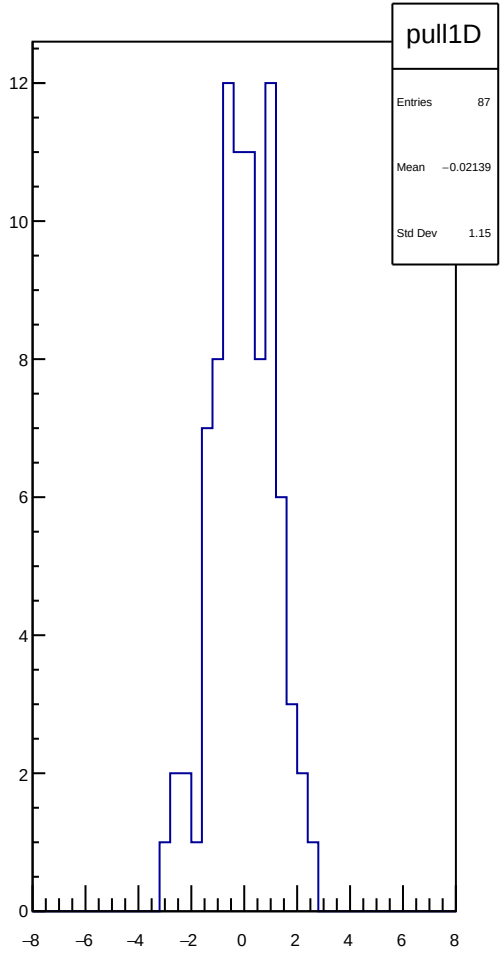

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 3.812e+04 / 86
p0 586 ± 0.4465
1000
900
800
700
600
500
400

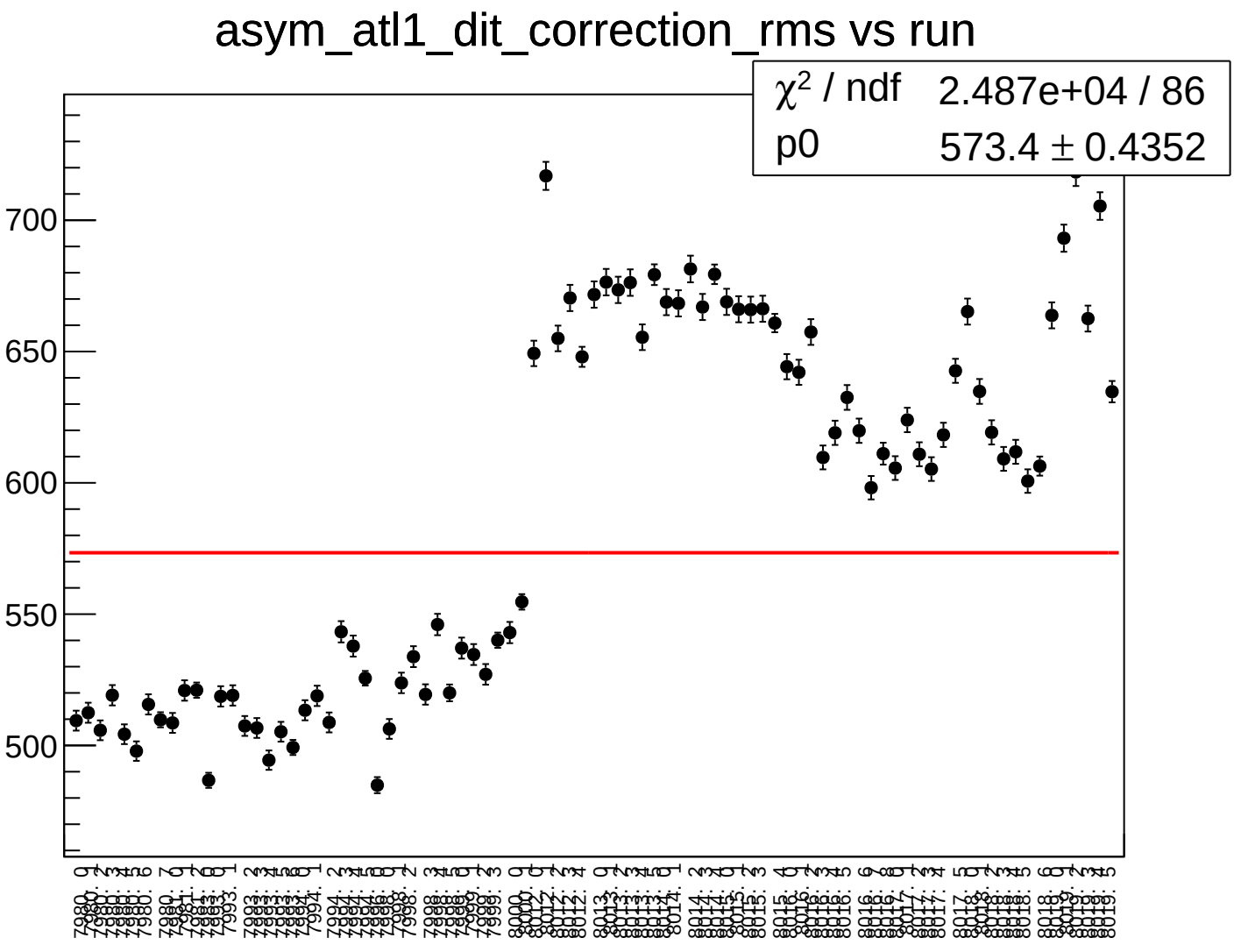

dit_asym_atl1_mean vs run
χ² / ndf 96.9 / 86
p0 −1267 ± 2508
×10³
pull
Entries 87
Mean 58.25
Std Dev 20.23

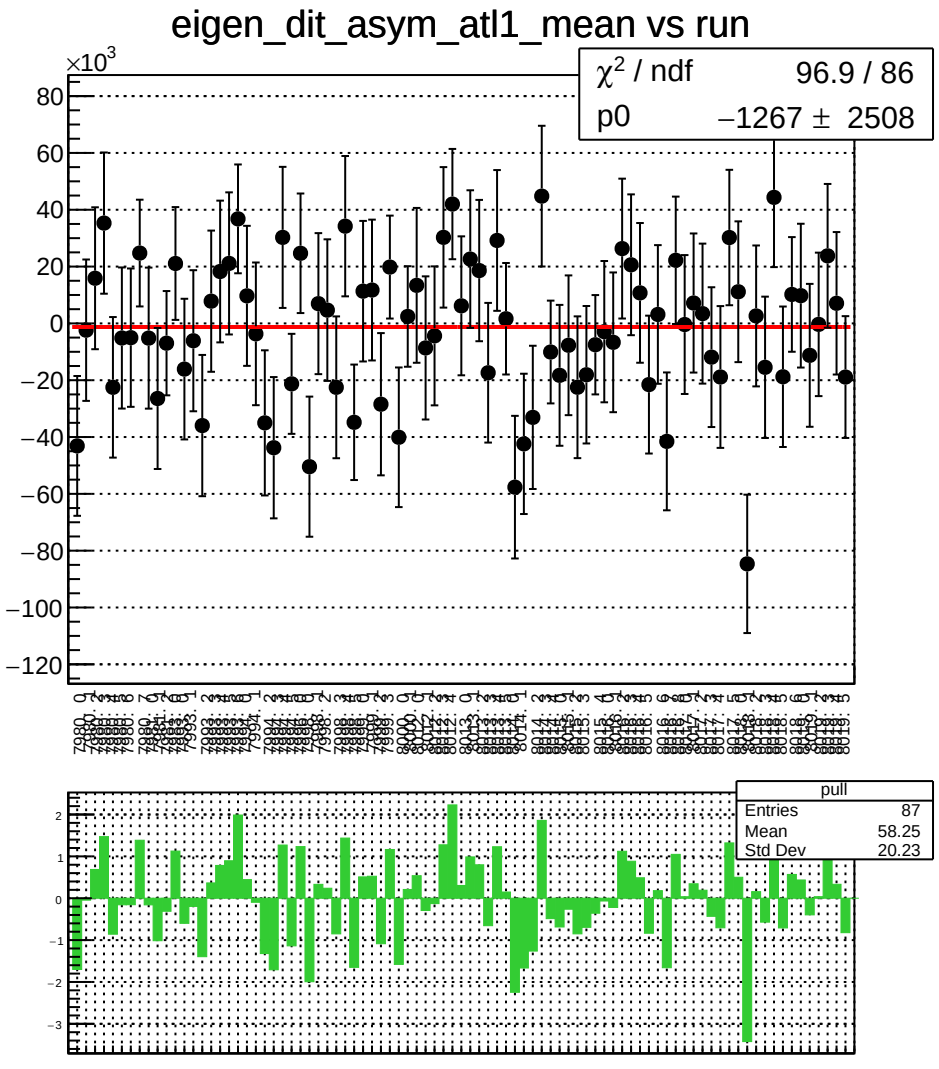

pull1D
Entries 87
Mean −0.01736
Std Dev 1.055

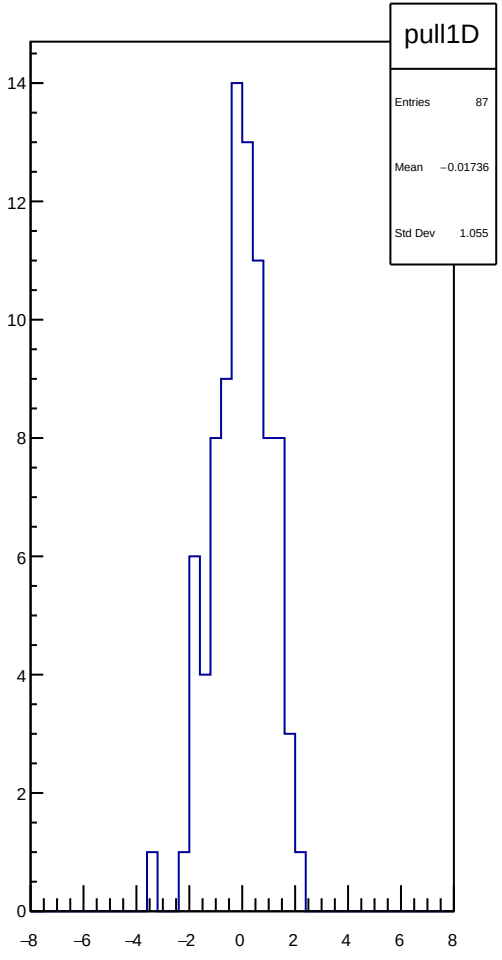

dit_asym_atl1_rms vs run
χ^2 / ndf 327.7 / 86
p0 2353 ± 1.773
2600
2550
2500
2450
2400
2350
2300
2250

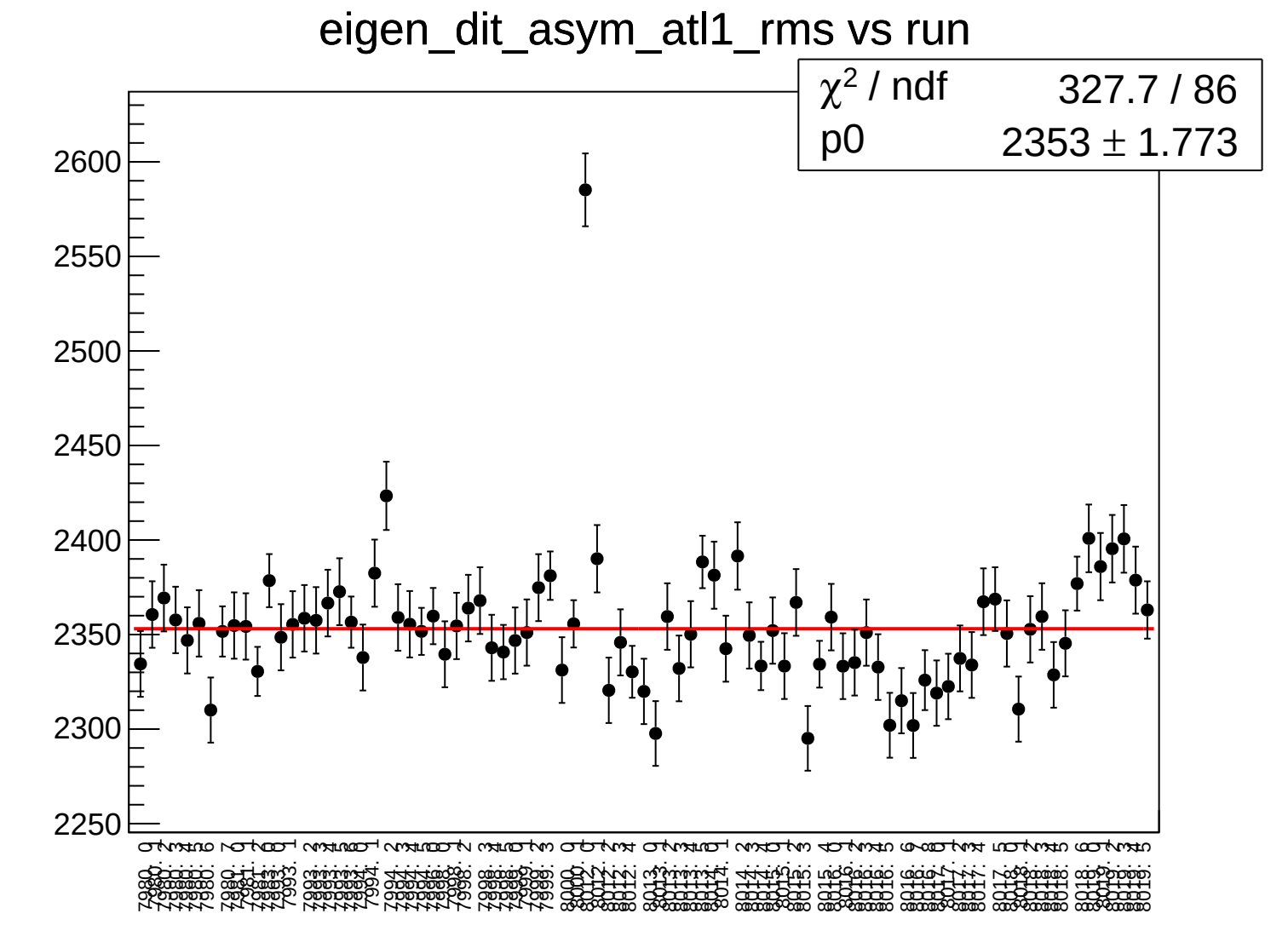

asym_atl1_dit_correction_mean vs run
χ² / ndf 115.1 / 86
p0 186.6 ± 615.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 207.9
Std Dev 0
2
1
0
−1
−2
−3

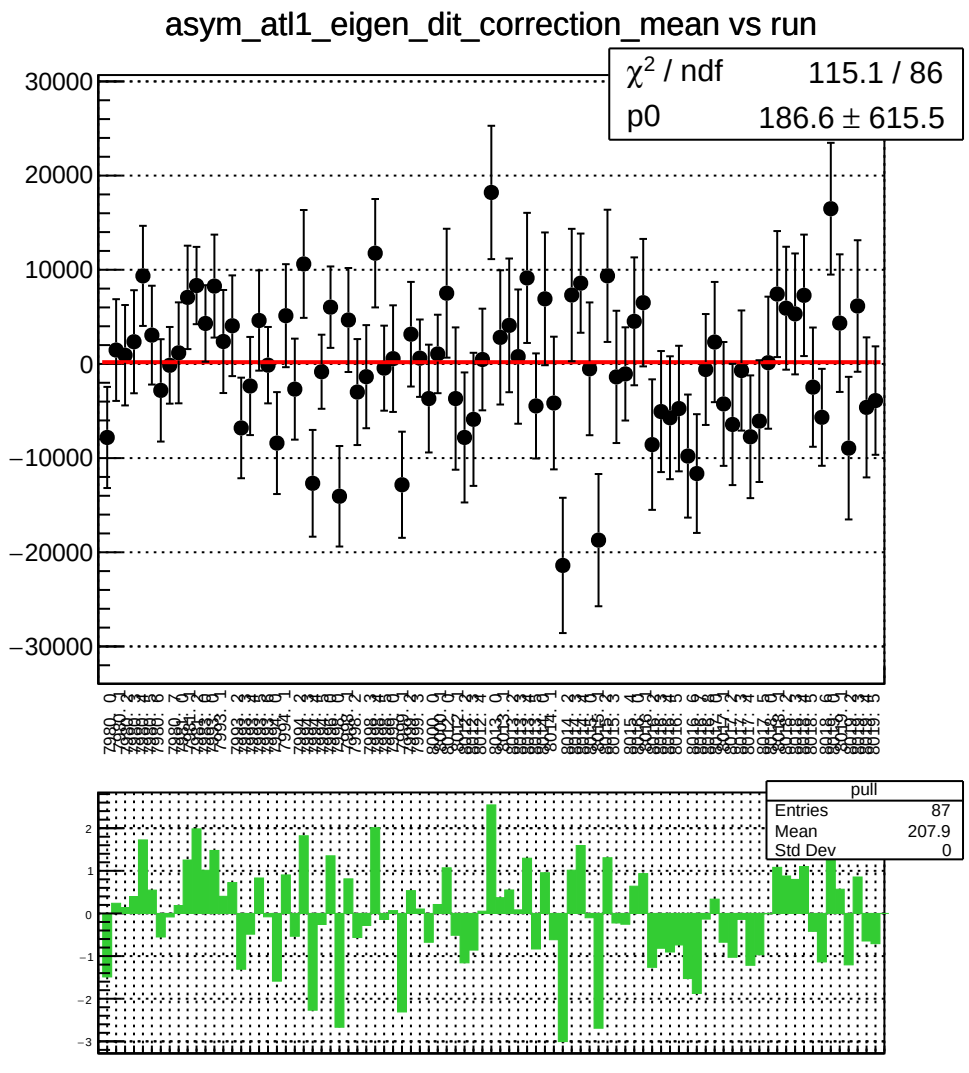

pull1D
Entries 87
Mean −0.02139
Std Dev 1.15
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

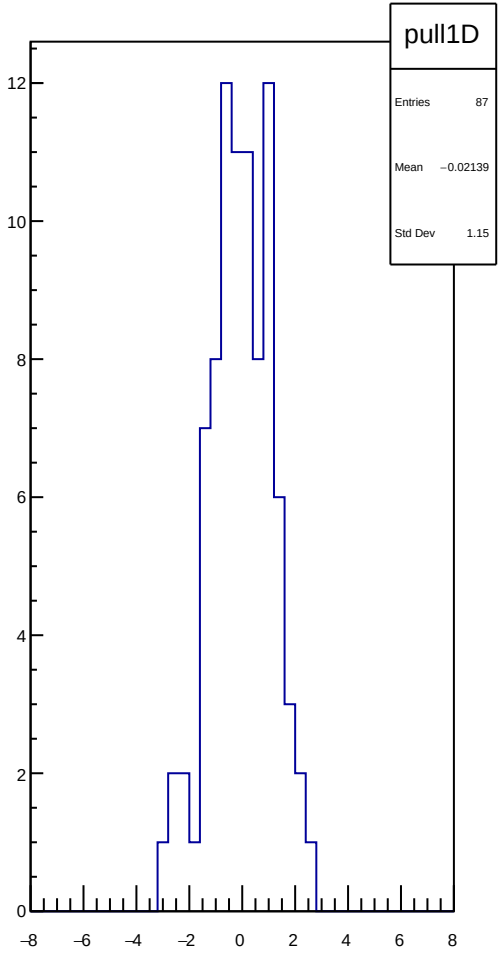

asym_atl1_dit_correction_rms vs run
χ² / ndf 2.487e+04 / 86
p0 573.4 ± 0.4352
700
650
600
550
500

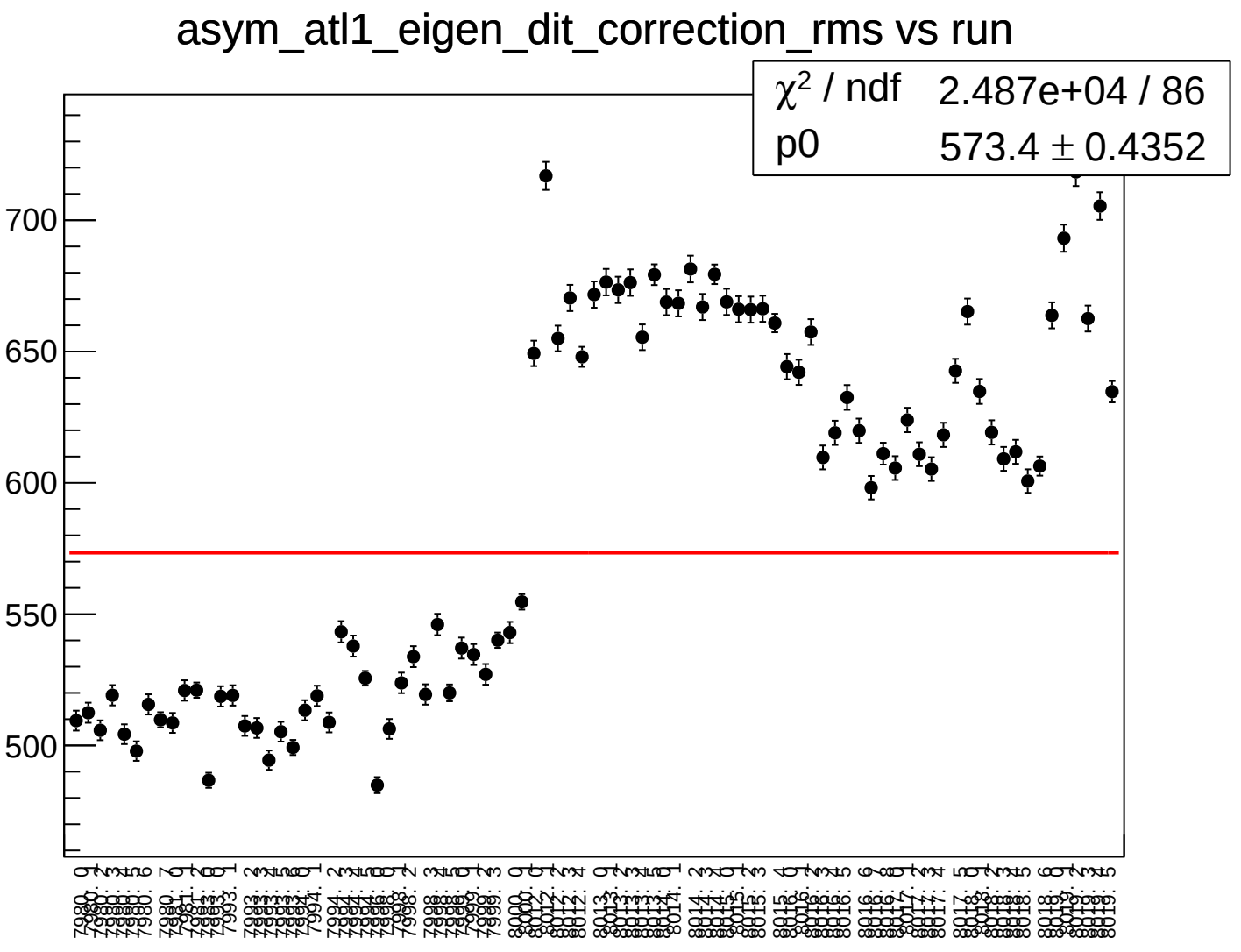

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 96.9 / 86
p0 −1267 ± 2508
pull
Entries 87
Mean 58.25
Std Dev 20.23

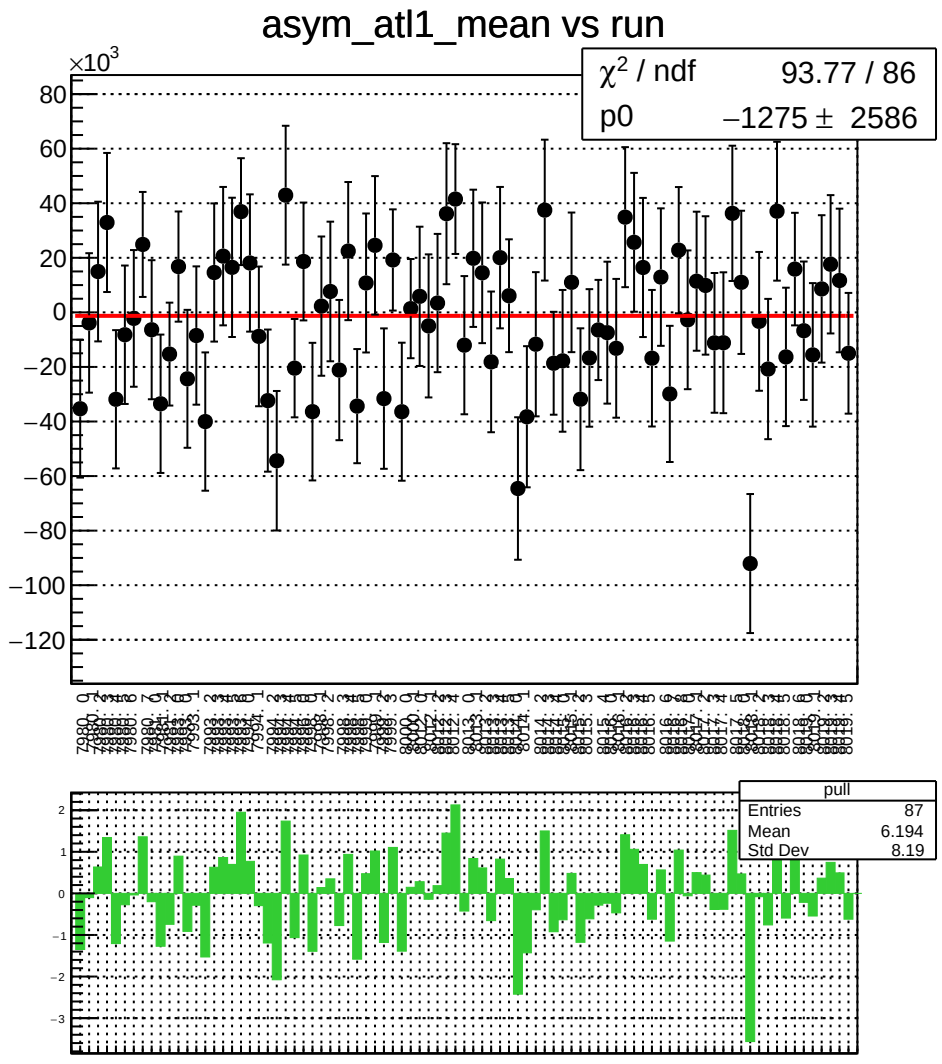

pull1D
Entries 87
Mean −0.01736
Std Dev 1.055

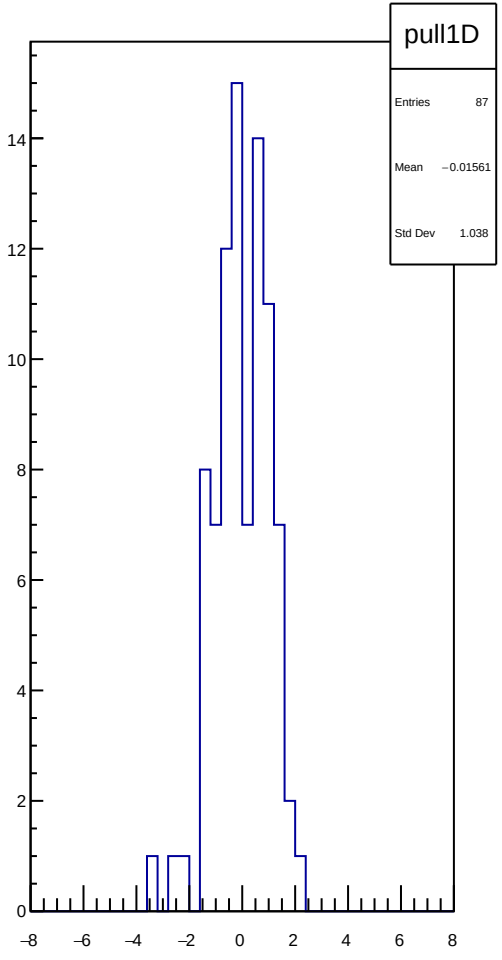

eigen_dit_asym_atl1_rms vs run
χ² / ndf 327.7 / 86
p0 2353 ± 1.773
2600
2550
2500
2450
2400
2350
2300
2250

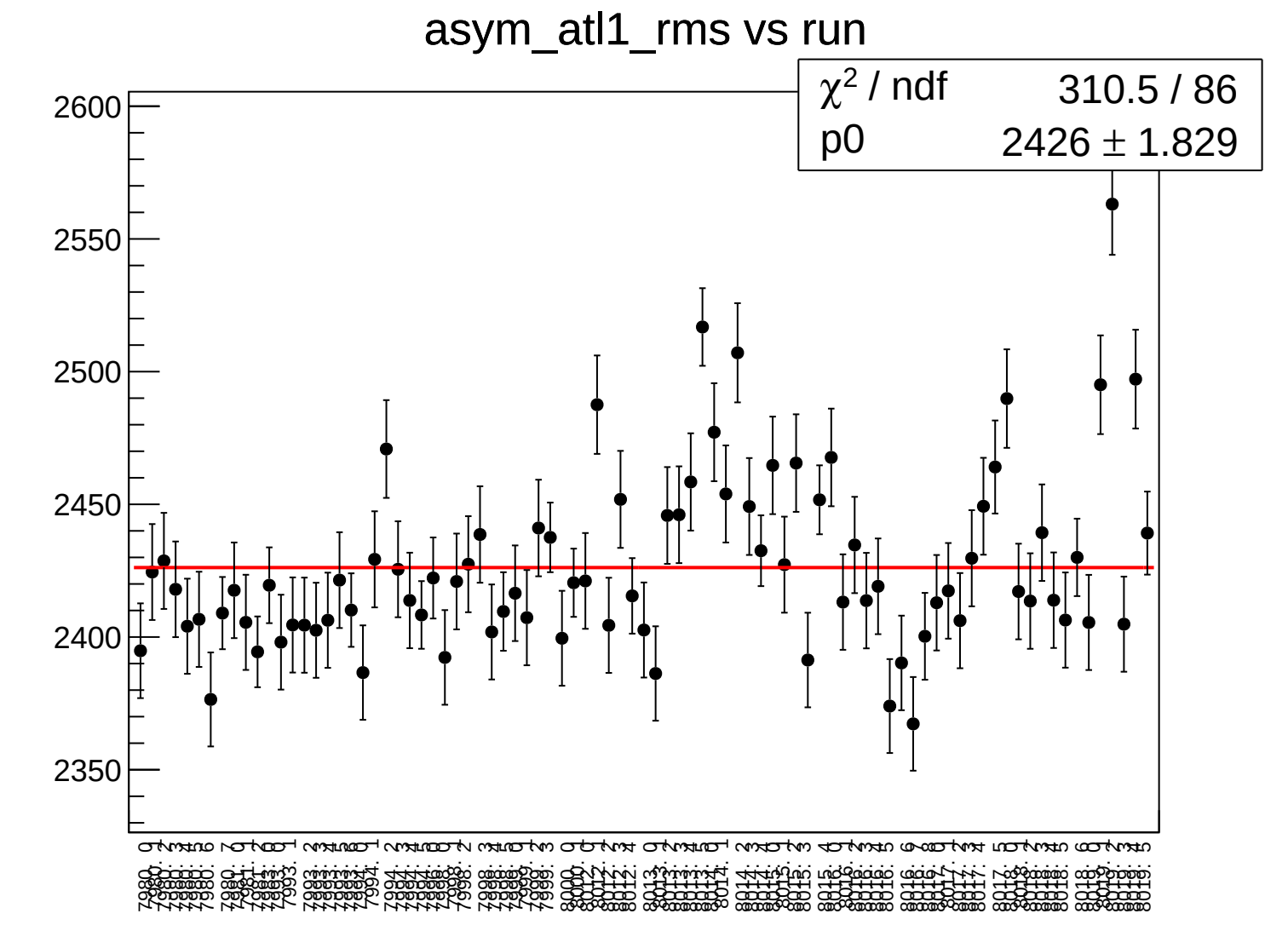

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 115.1 / 86
p0 186.6 ± 615.5
pull
Entries 87
Mean 207.9
Std Dev 0

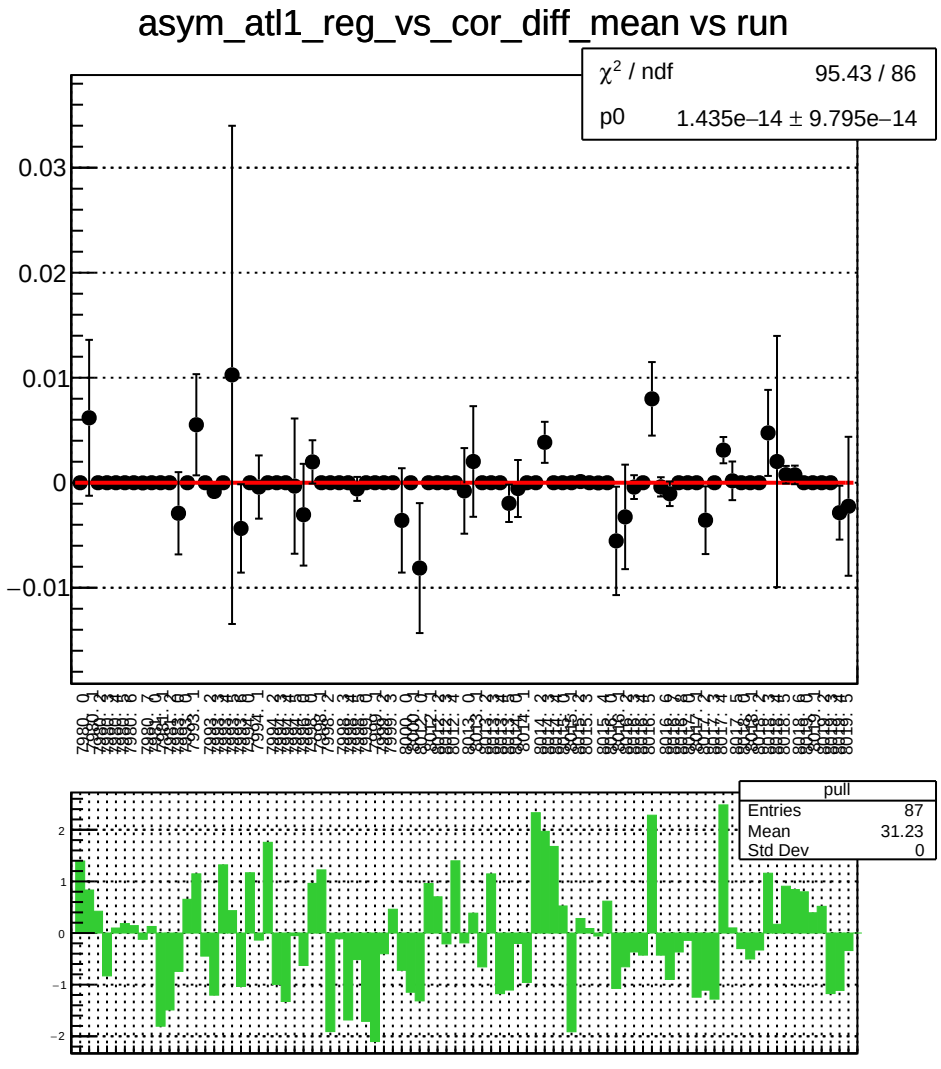

pull1D
Entries 87
Mean −0.02139
Std Dev 1.15

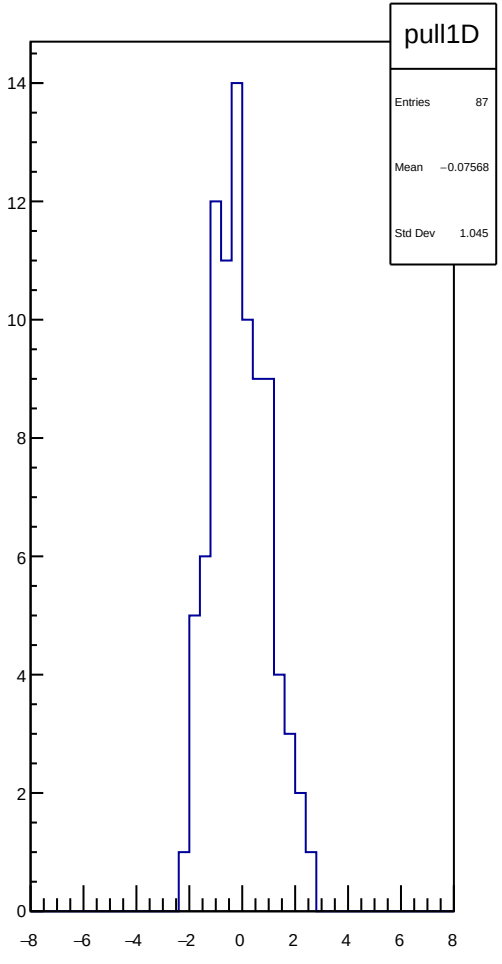

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 2.487e+04 / 86
p0 573.4 ± 0.4352
700
650
600
550
500

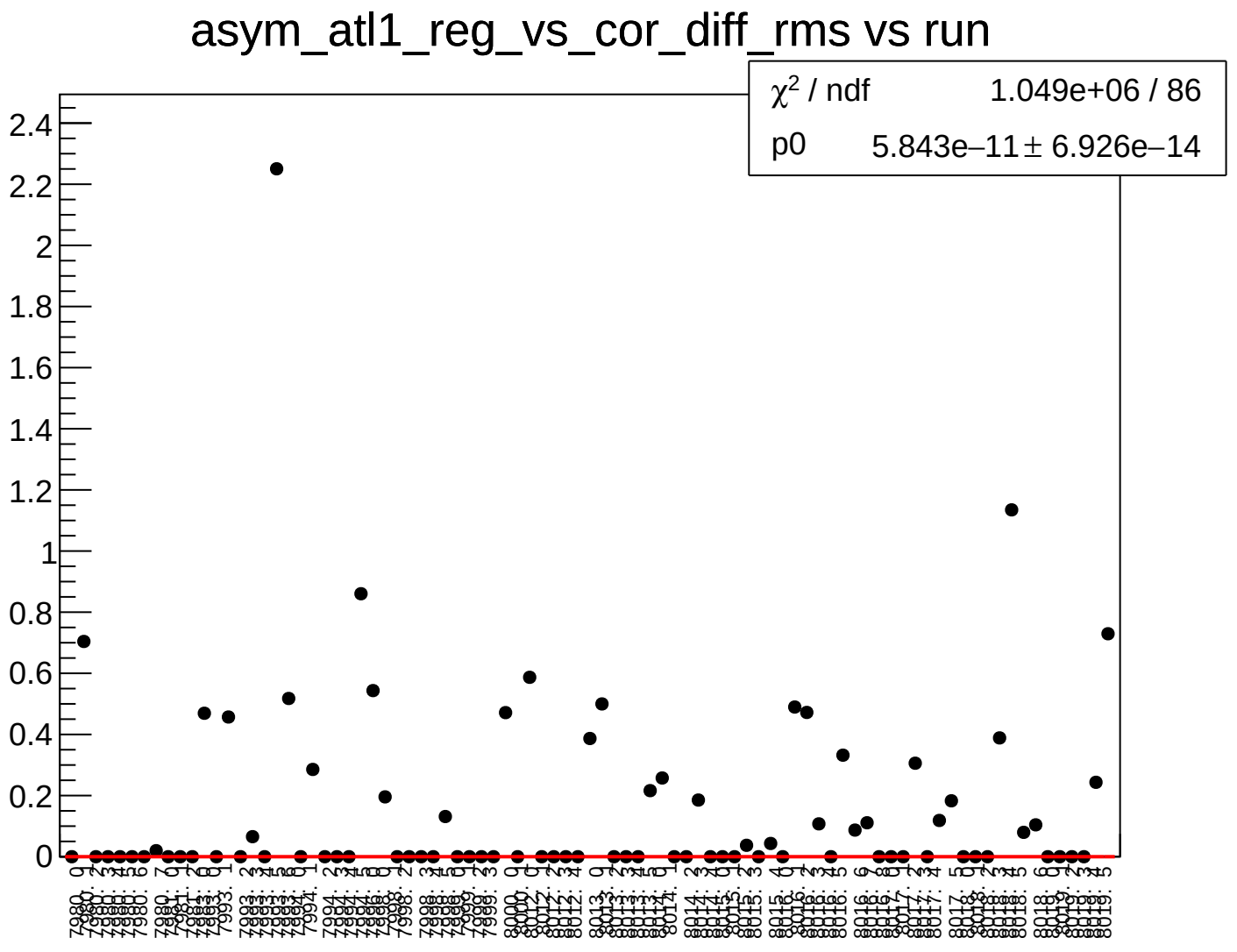

asym_atl1_mean vs run
χ² / ndf 93.77 / 86
p0 −1275 ± 2586
×10³
pull
Entries 87
Mean 6.194
Std Dev 8.19

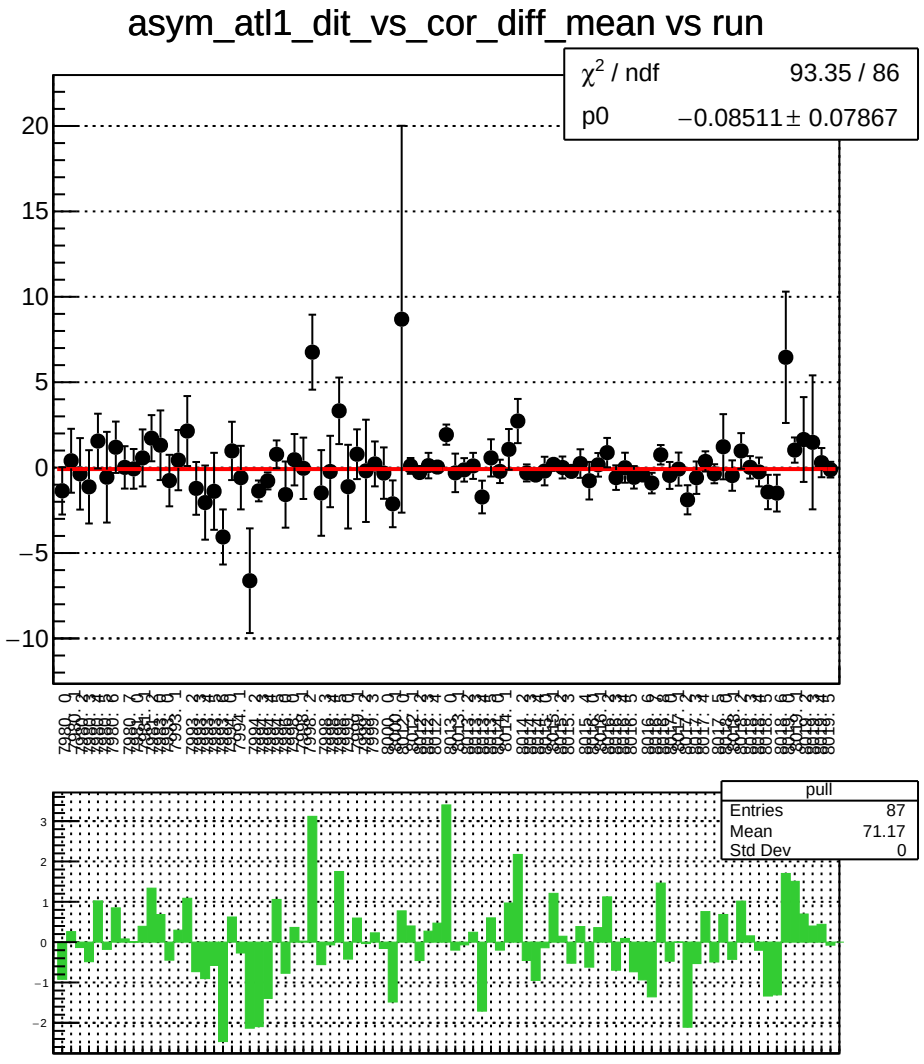

pull1D
Entries 87
Mean −0.01561
Std Dev 1.038

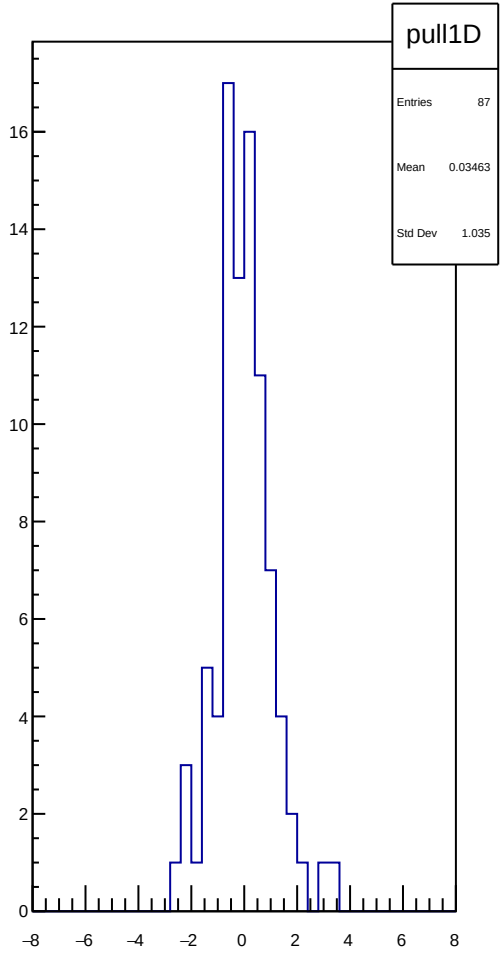

asym_atl1_rms vs run
χ² / ndf 310.5 / 86
p0 2426 ± 1.829
2600
2550
2500
2450
2400
2350

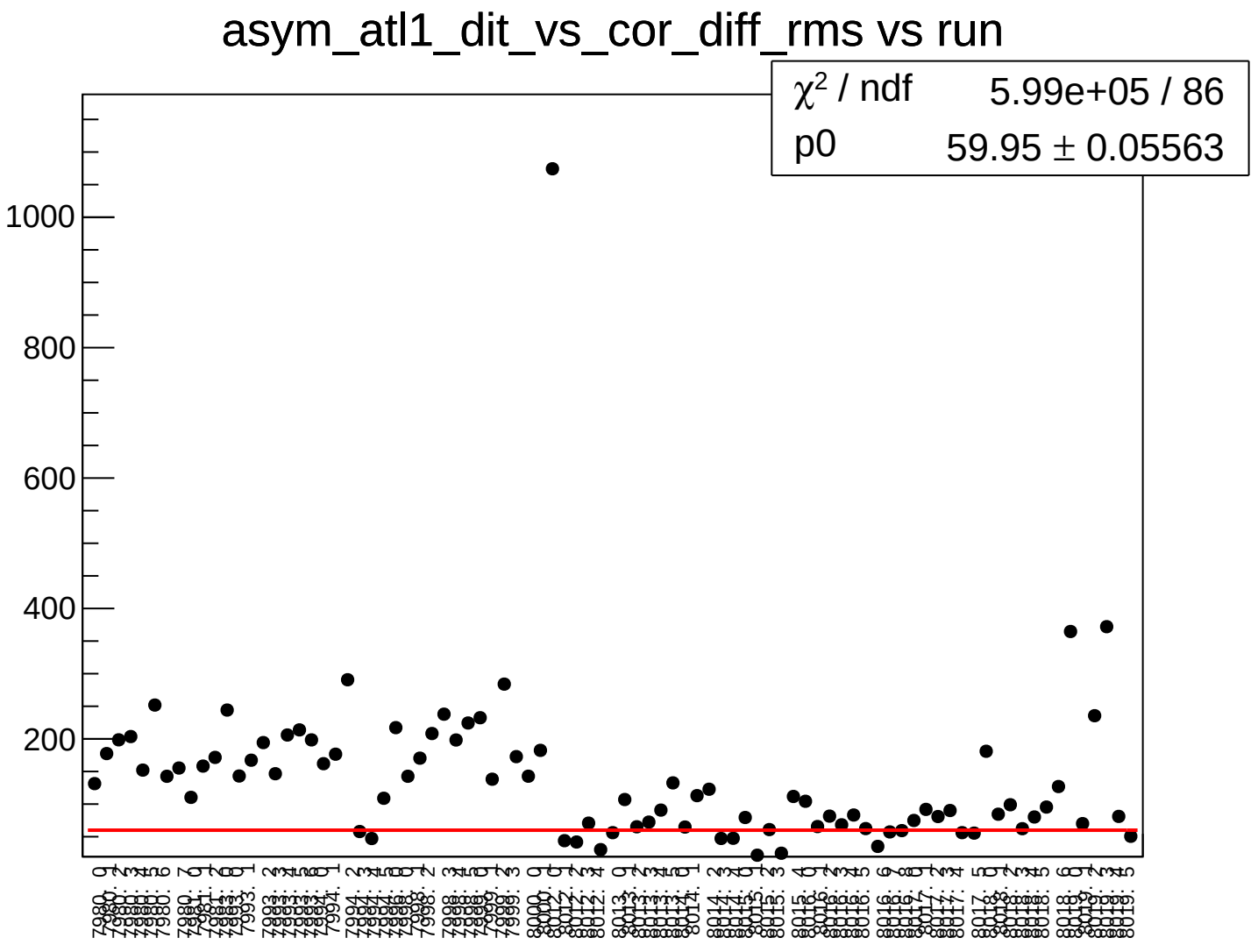

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 95.43 / 86
p0 1.435e−14 ± 9.795e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 87
Mean 31.23
Std Dev 0
2
1
0
−1
−2

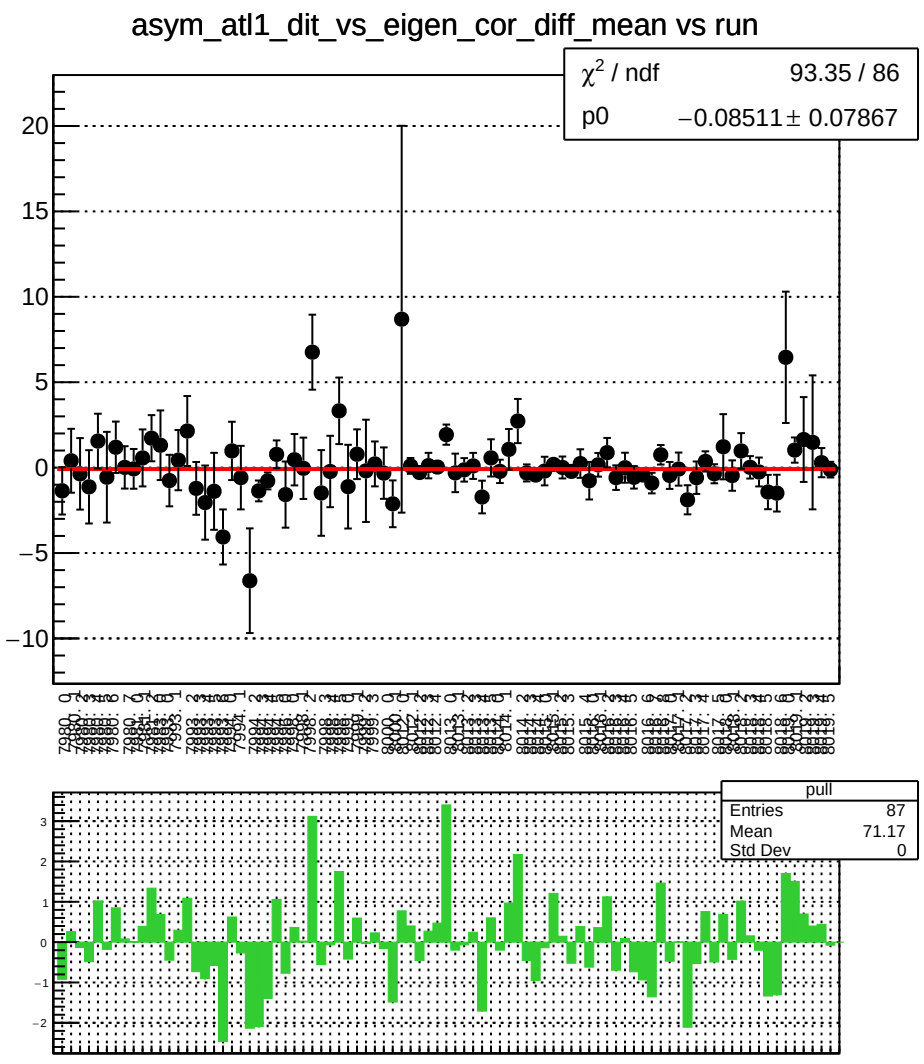

pull1D
Entries 87
Mean −0.07568
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

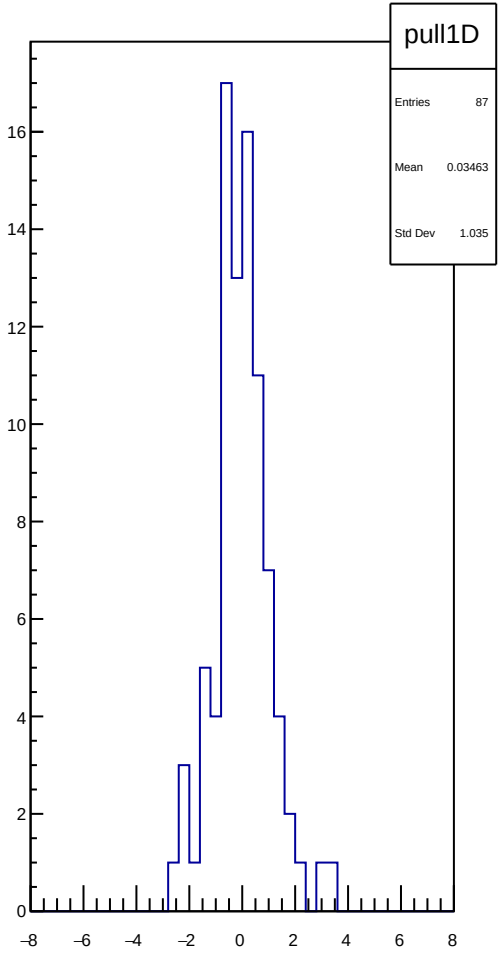

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.049e+06 / 86
p0 5.843e−11 ± 6.926e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

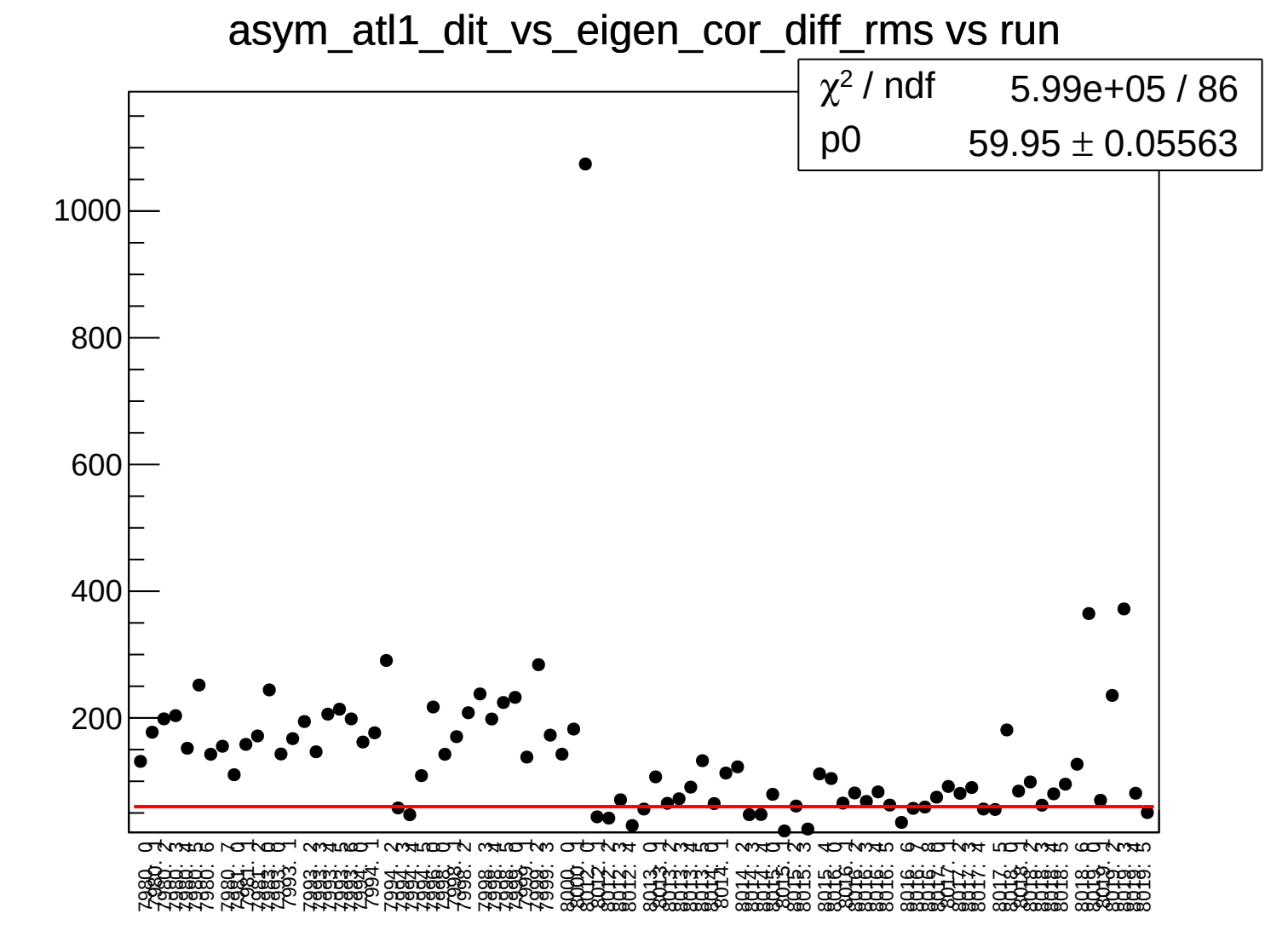

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 93.35 / 86
p0 −0.08511 ± 0.07867
pull
Entries 87
Mean 71.17
Std Dev 0

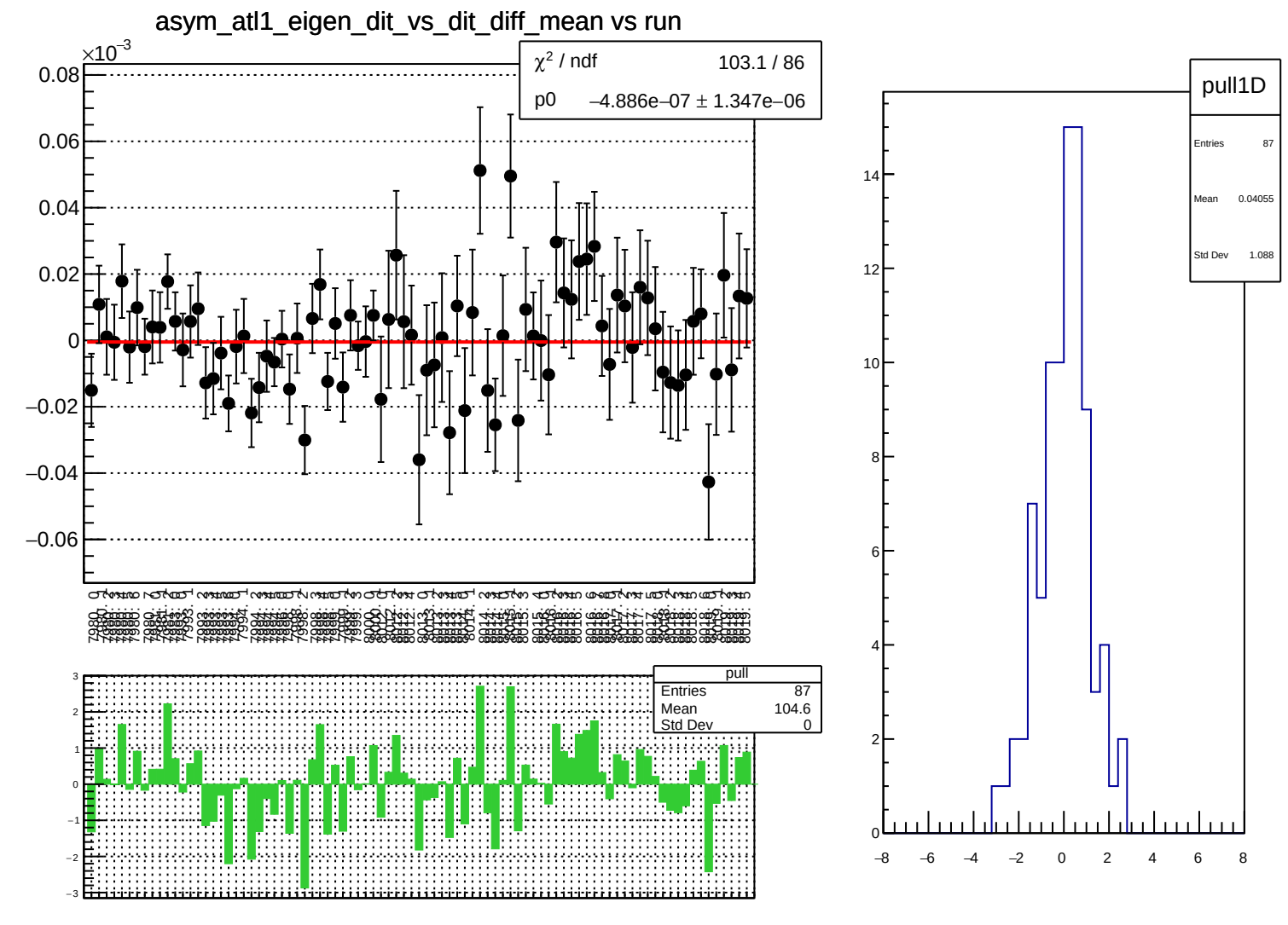

pull1D
Entries 87
Mean 0.03463
Std Dev 1.035

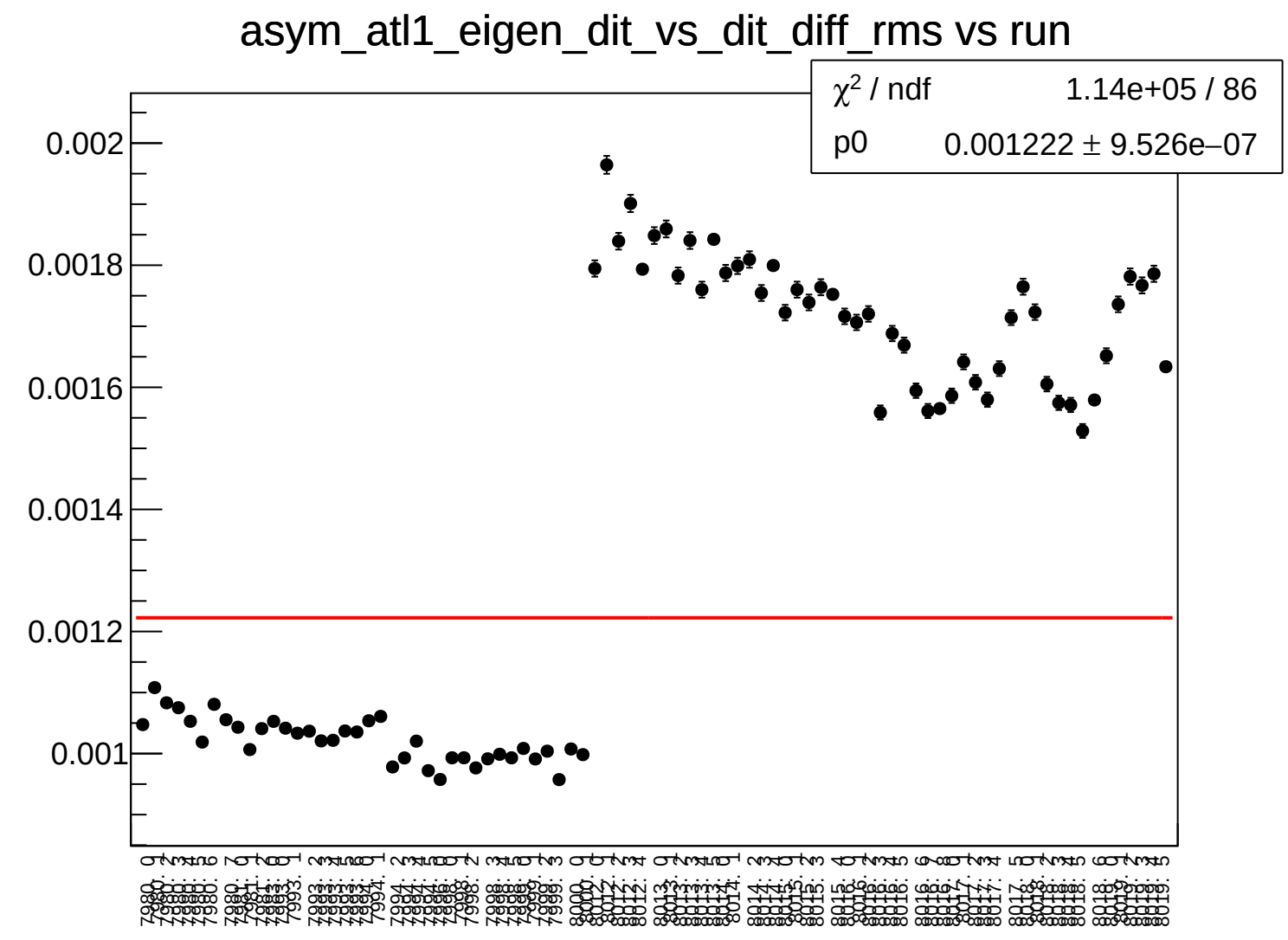

asym_atl1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.99e+05 / 86
p0 59.95 ± 0.05563
1000
800
600
400
200

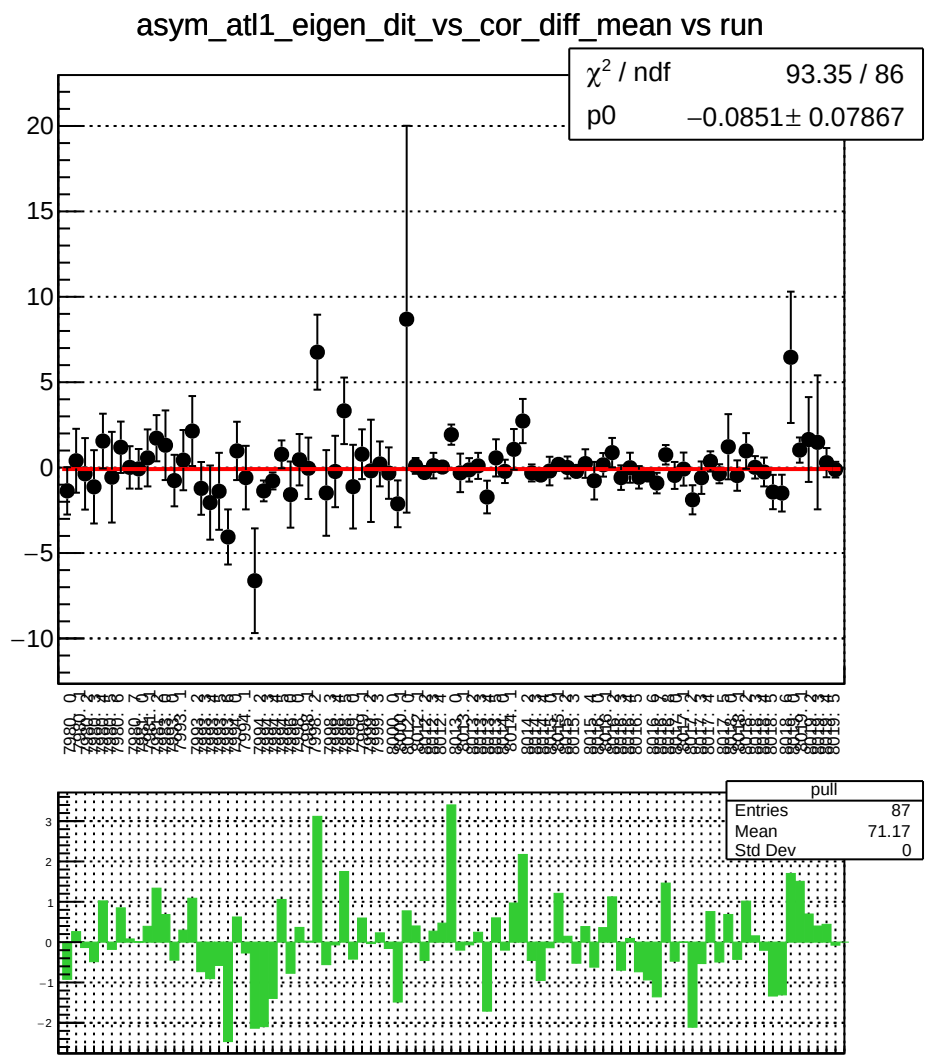

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.35 / 86
p0 −0.08511 ± 0.07867
pull
Entries 87
Mean 71.17
Std Dev 0

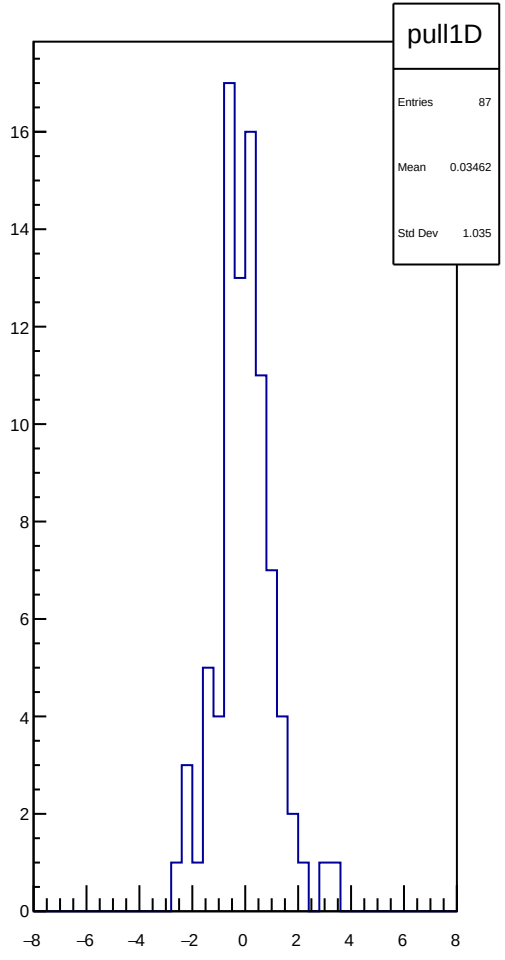

pull1D
Entries 87
Mean 0.03463
Std Dev 1.035

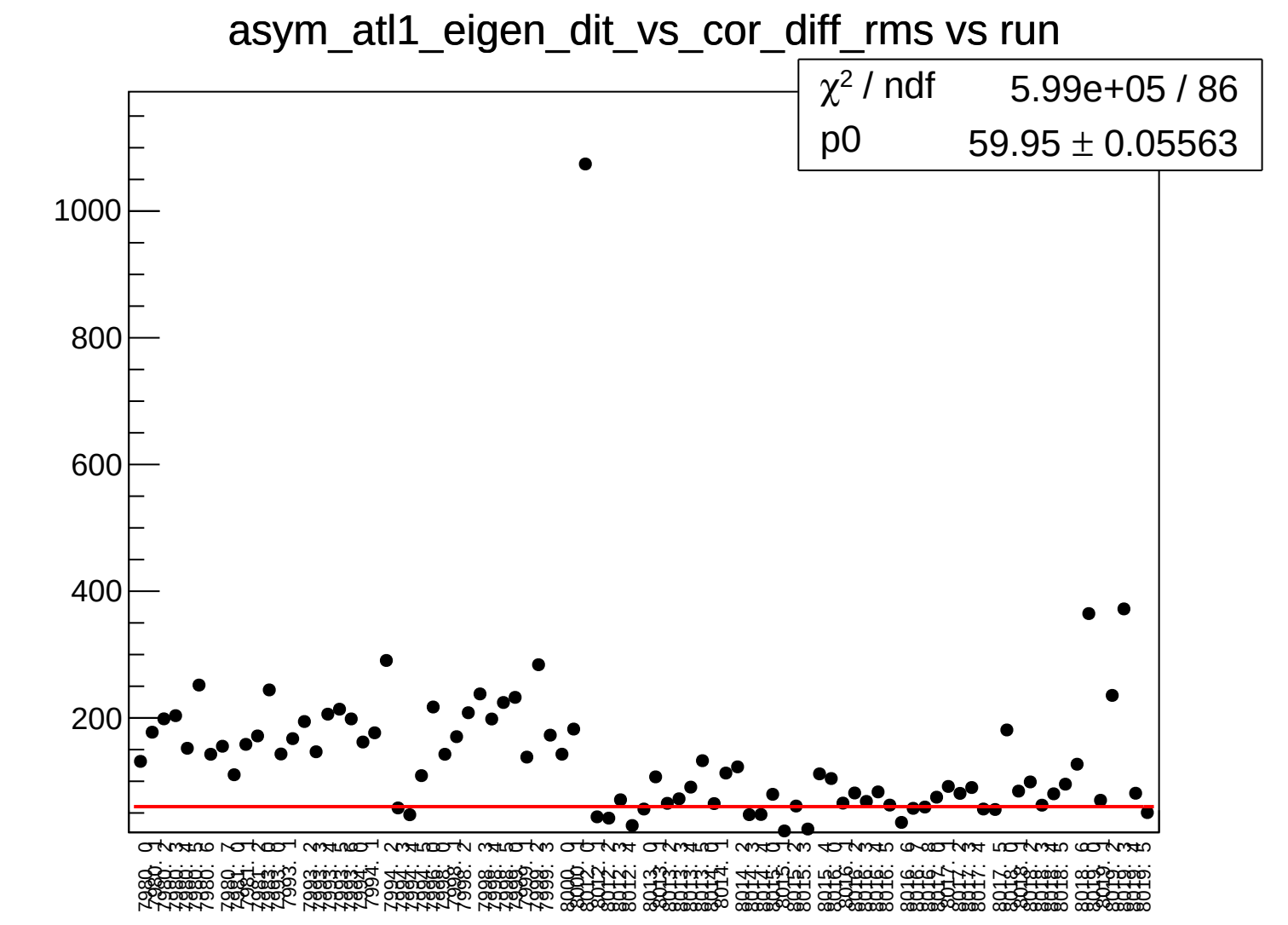

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.99e+05 / 86
p0 59.95 ± 0.05563
1000
800
600
400
200

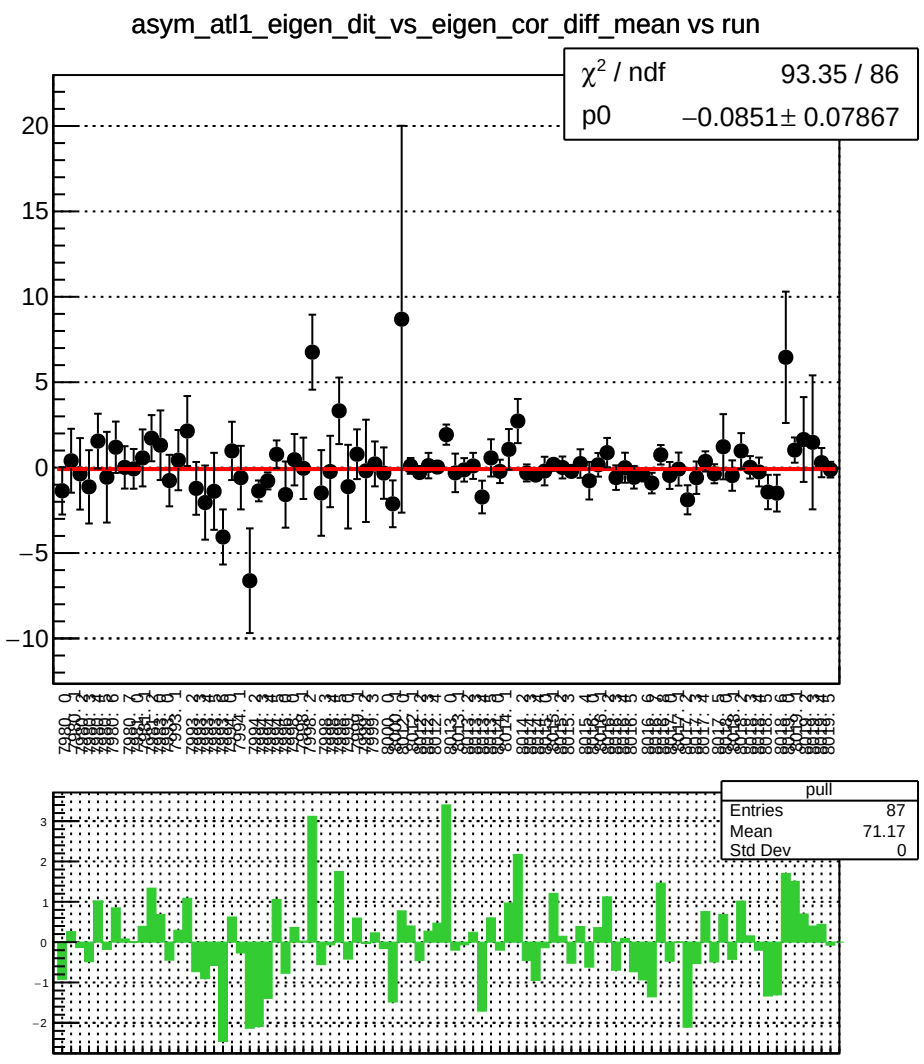

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 103.1 / 86
p0 −4.886e−07 ± 1.347e−06
pull
Entries 87
Mean 104.6
Std Dev 0
pull1D
Entries 87
Mean 0.04055
Std Dev 1.088

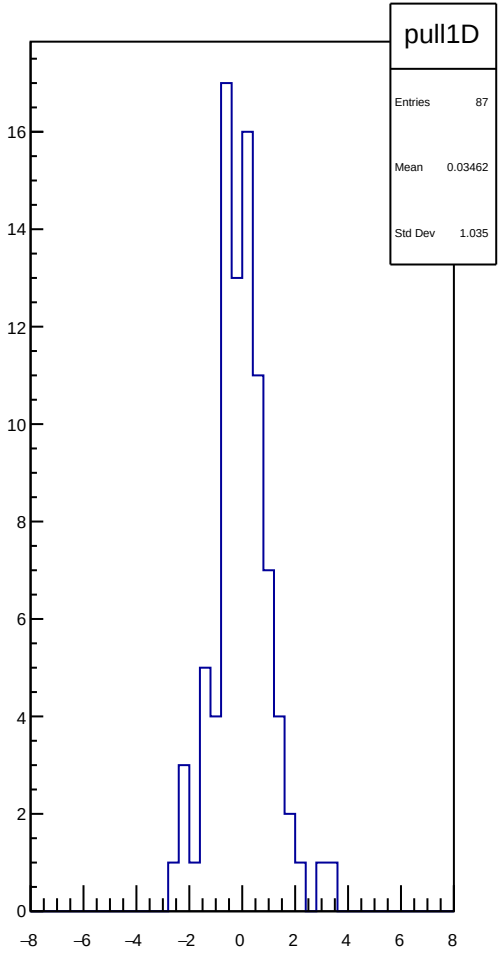

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.14e+05 / 86
p0 0.001222 ± 9.526e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001

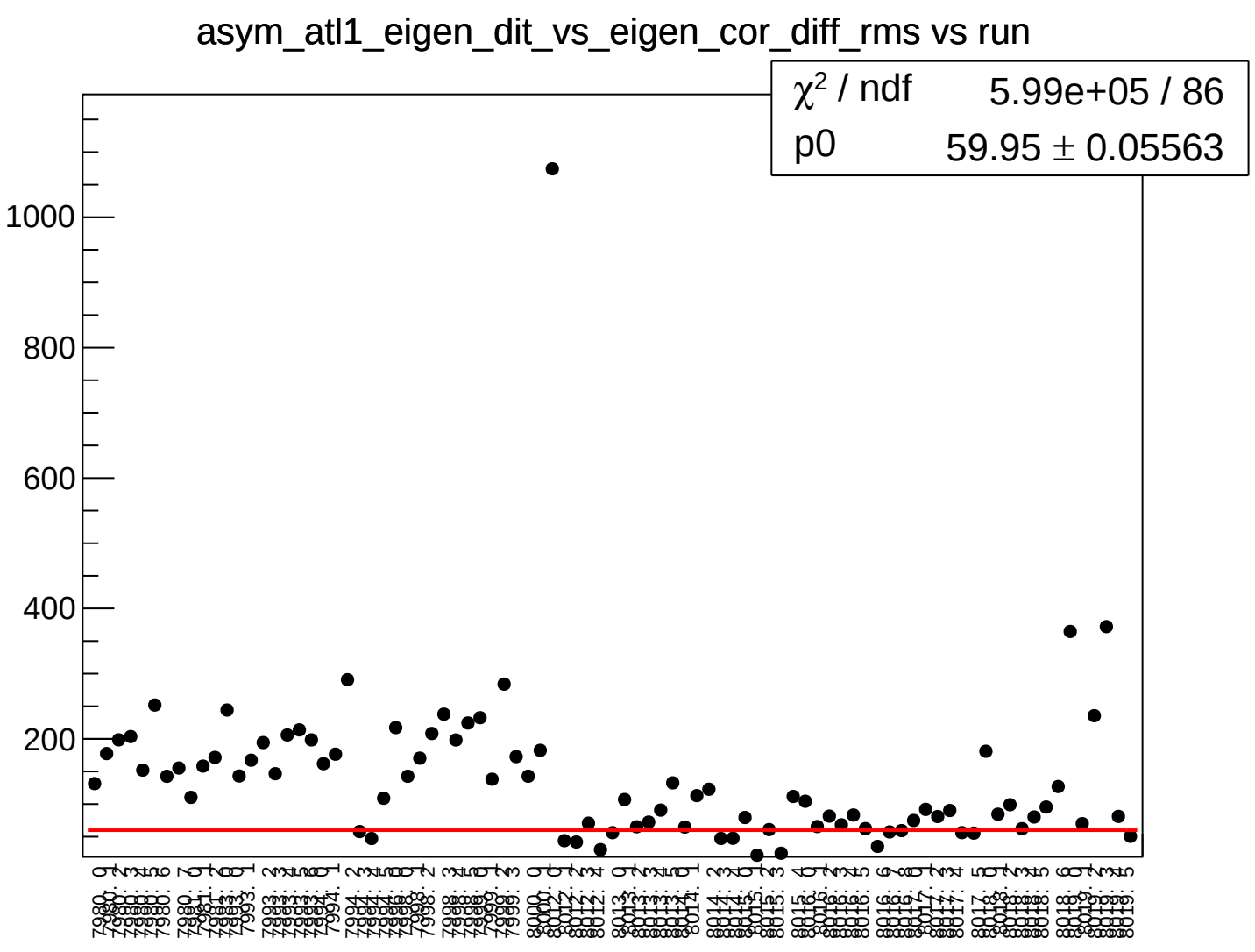

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.35 / 86
p0 −0.0851± 0.07867
pull
Entries 87
Mean 71.17
Std Dev 0

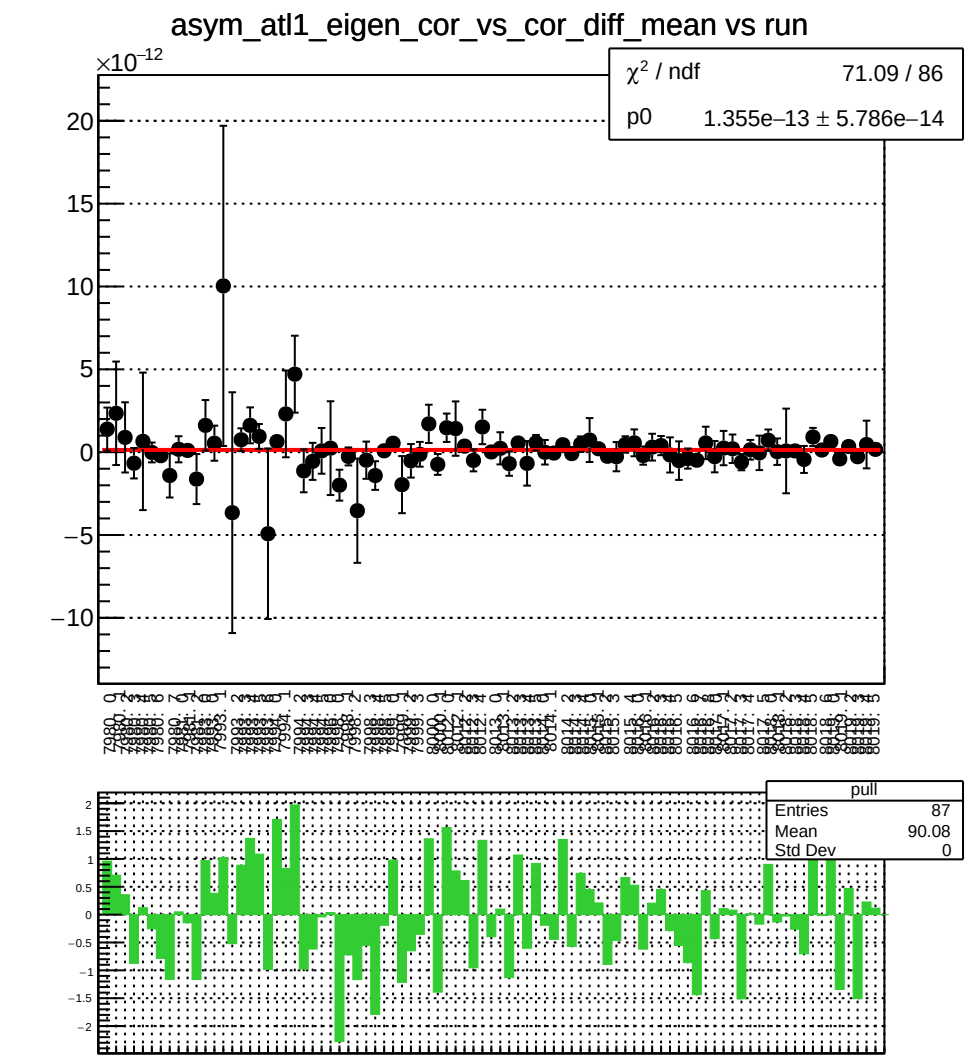

pull1D
Entries 87
Mean 0.03462
Std Dev 1.035

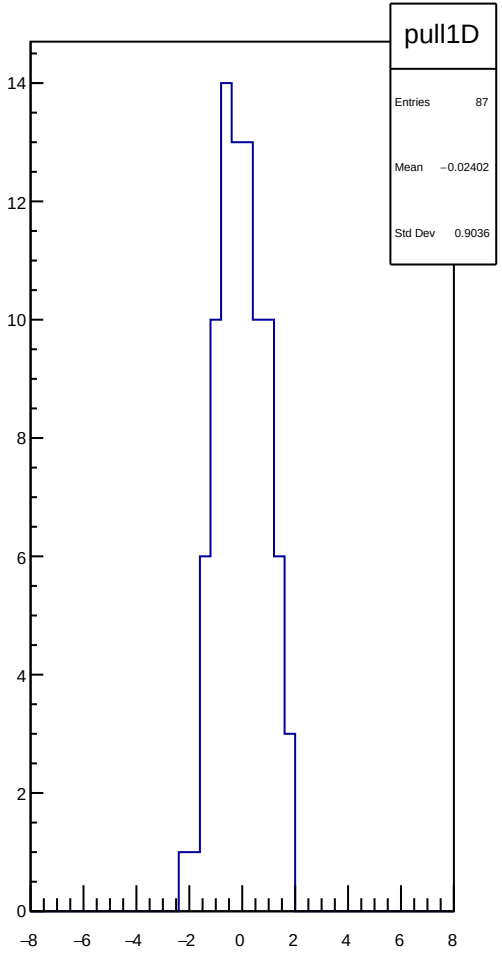

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.99e+05 / 86
p0 59.95 ± 0.05563
1000
800
600
400
200

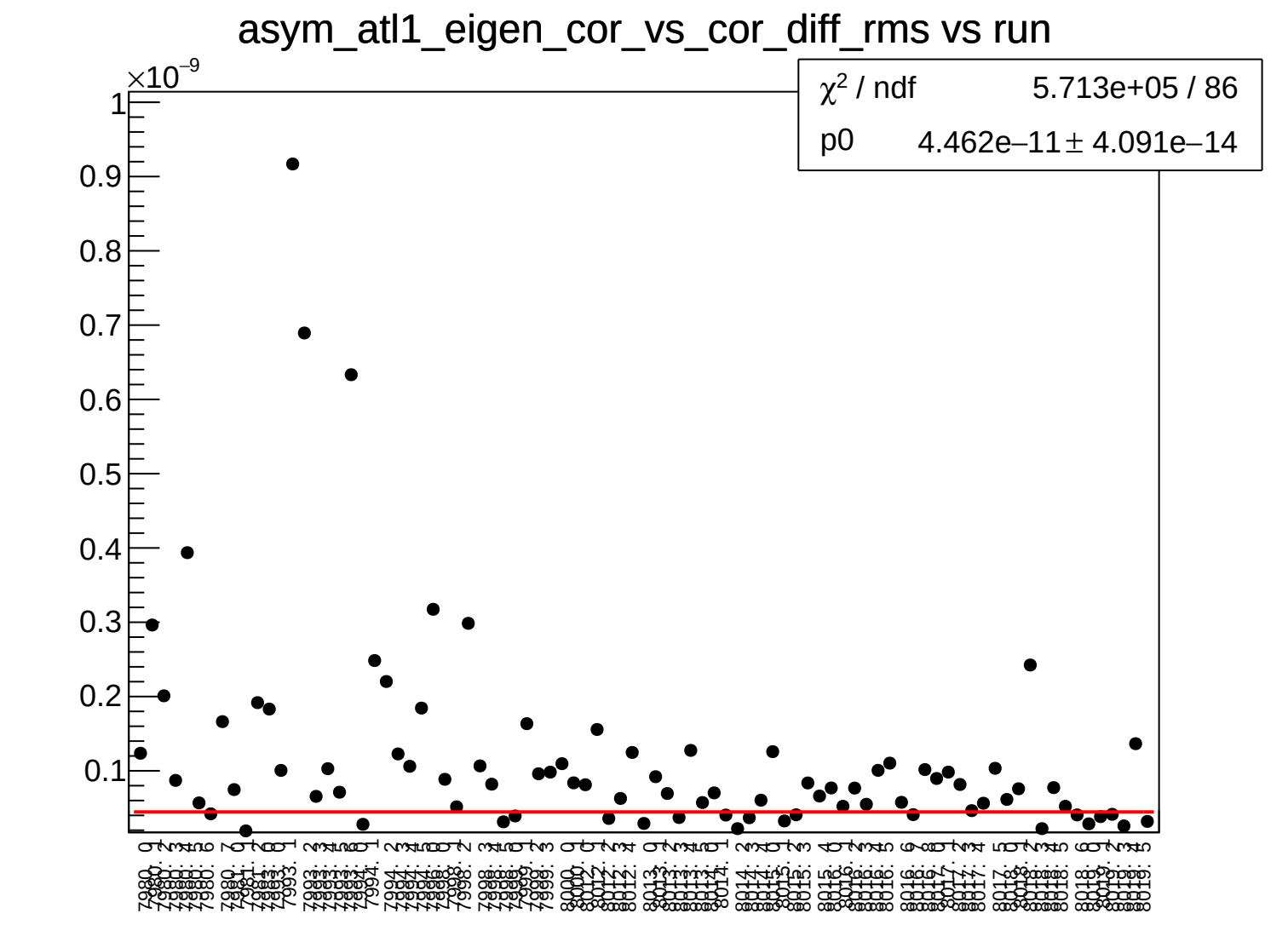

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.35 / 86
p0 −0.0851± 0.07867
pull
Entries 87
Mean 71.17
Std Dev 0

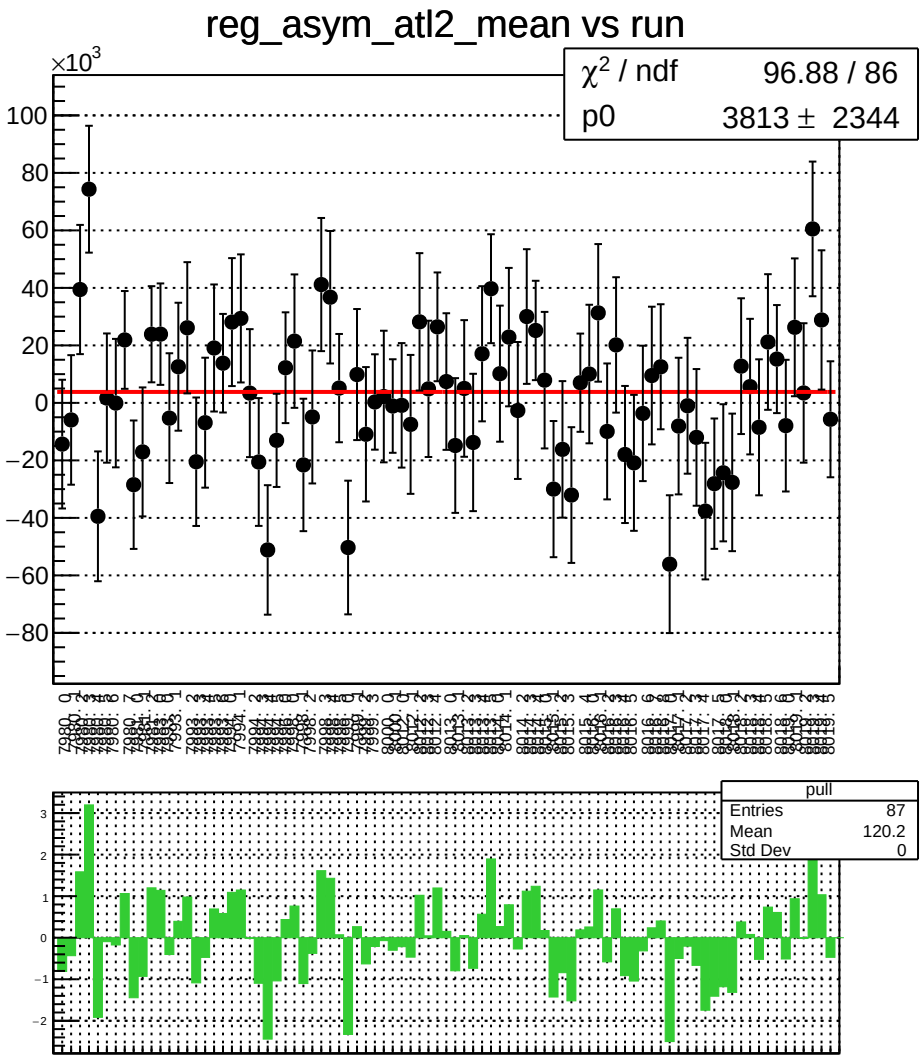

pull1D
Entries 87
Mean 0.03462
Std Dev 1.035

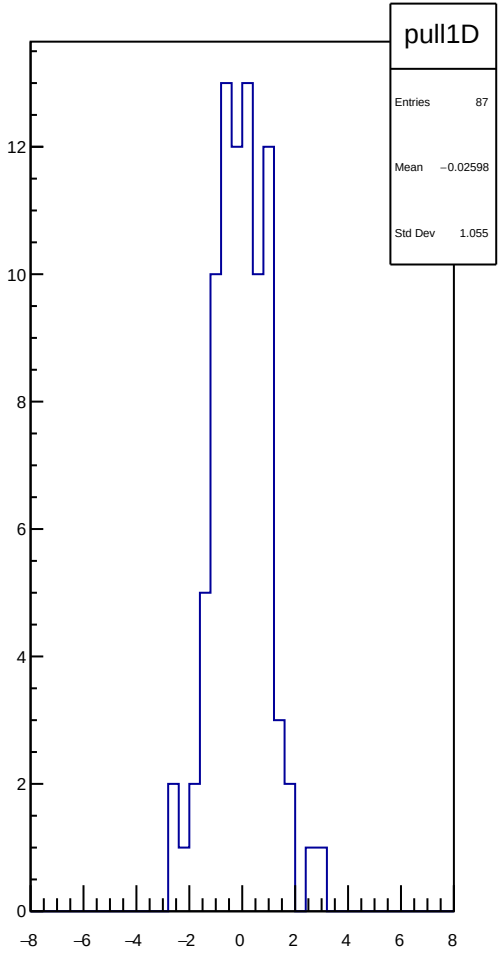

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.99e+05 / 86
p0 59.95 ± 0.05563
1000
800
600
400
200

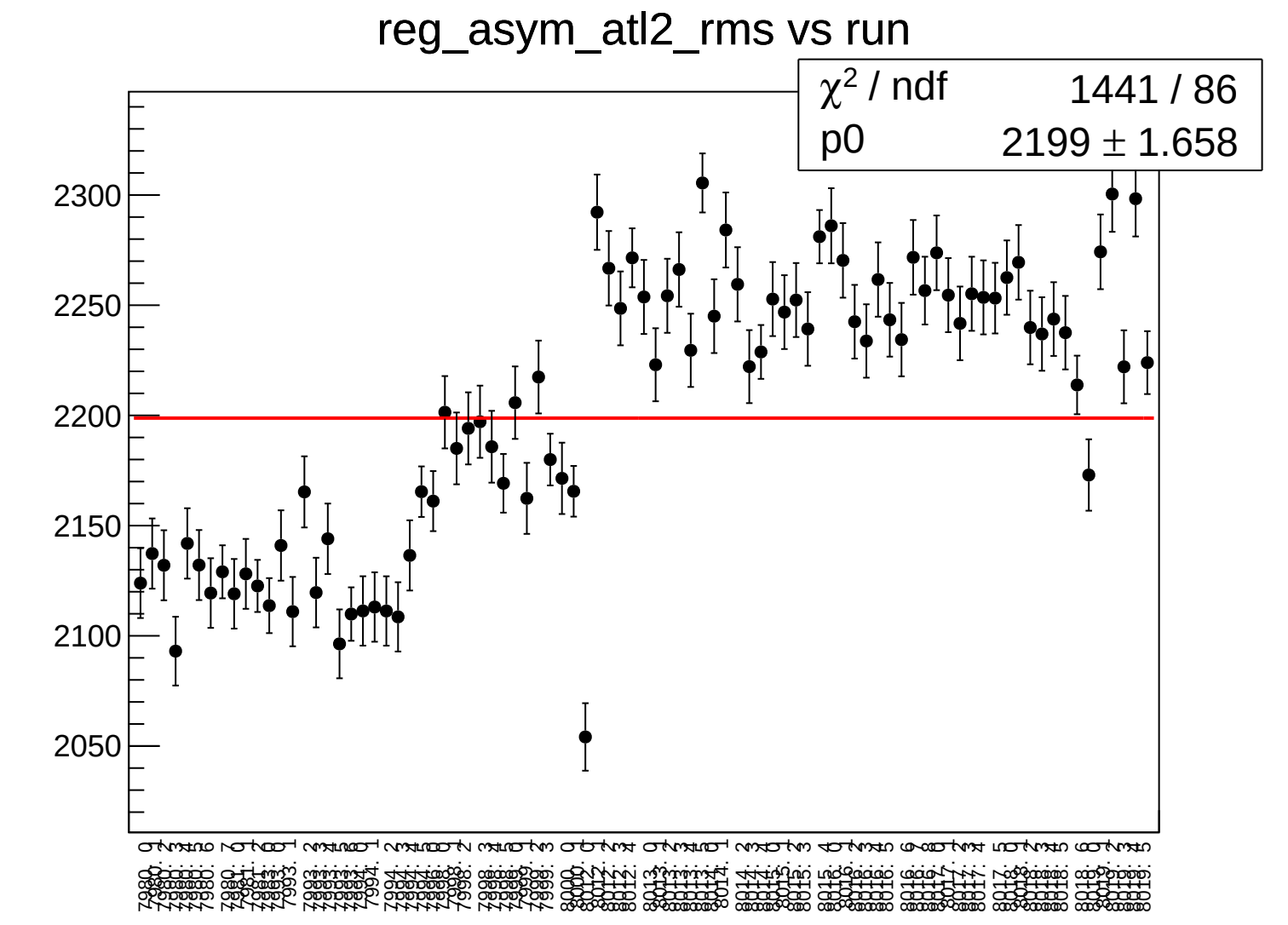

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.09 / 86
p0 1.355e−13 ± 5.786e−14
pull
Entries 87
Mean 90.08
Std Dev 0

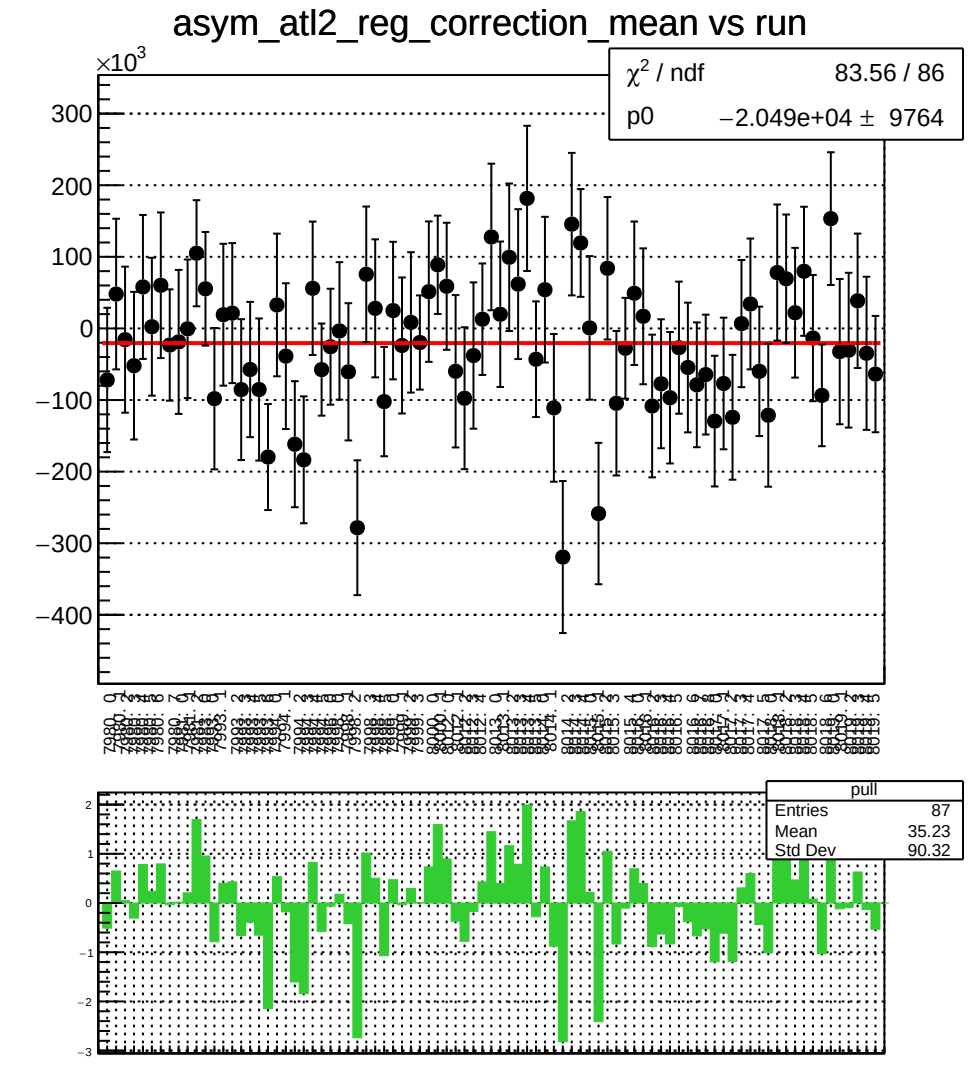

pull1D
Entries 87
Mean −0.02402
Std Dev 0.9036

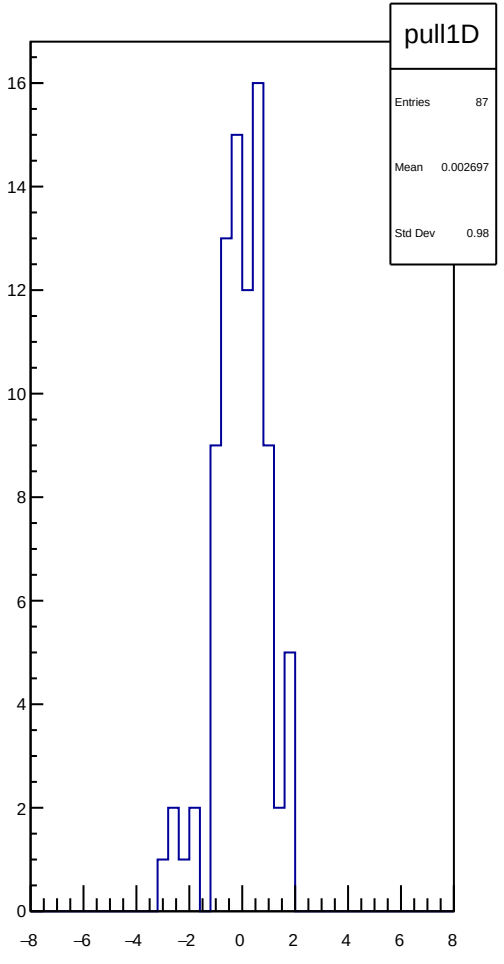

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.713e+05 / 86
p0 4.462e−11 ± 4.091e−14
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

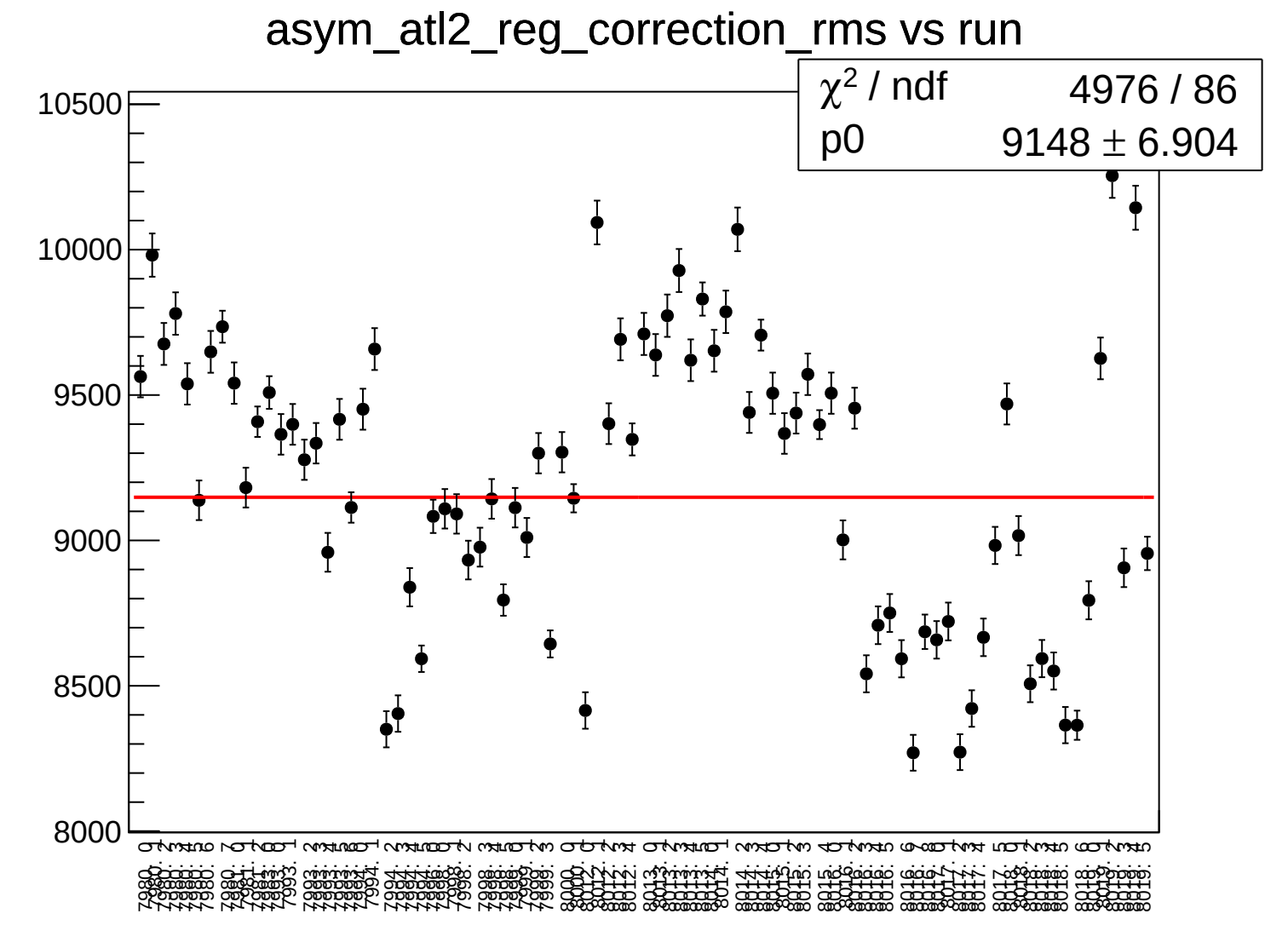

reg_asym_atl2_mean vs run
χ^2 / ndf 96.88 / 86
p0 3813 ± 2344
×10^3
pull
Entries 87
Mean 120.2
Std Dev 0

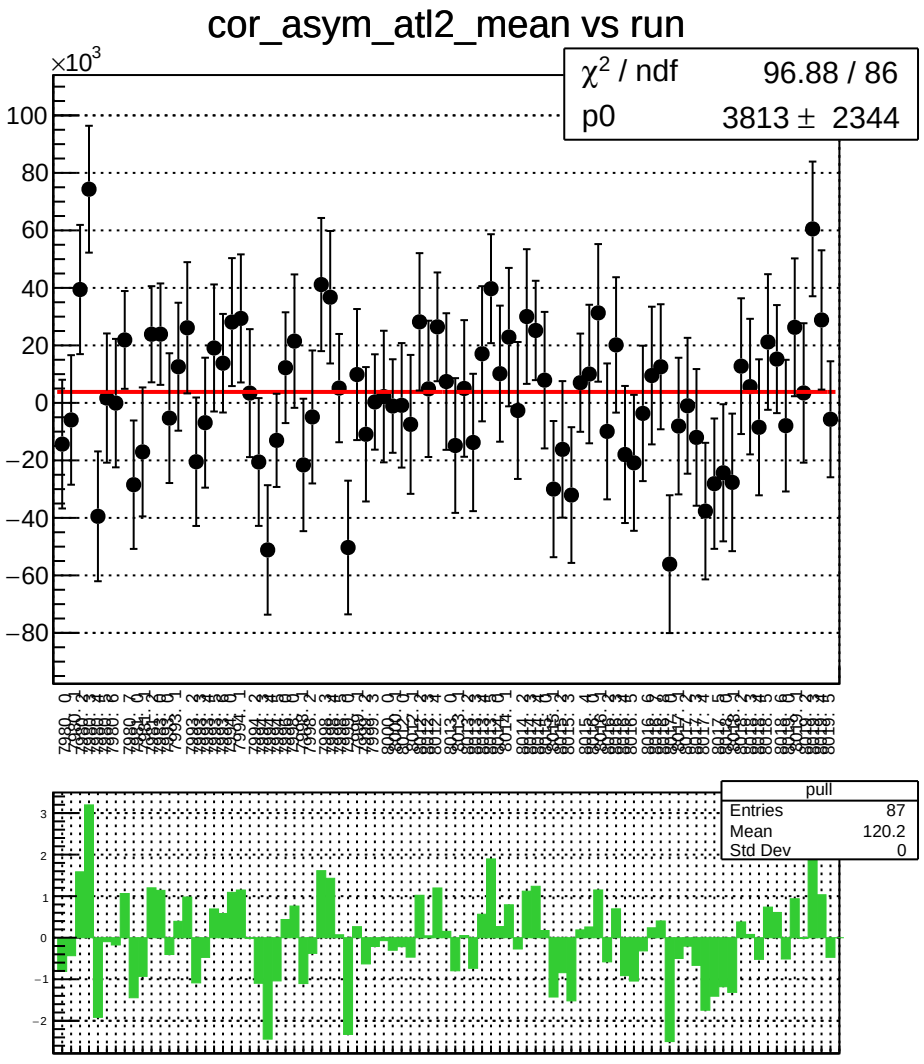

pull1D
Entries 87
Mean −0.02598
Std Dev 1.055

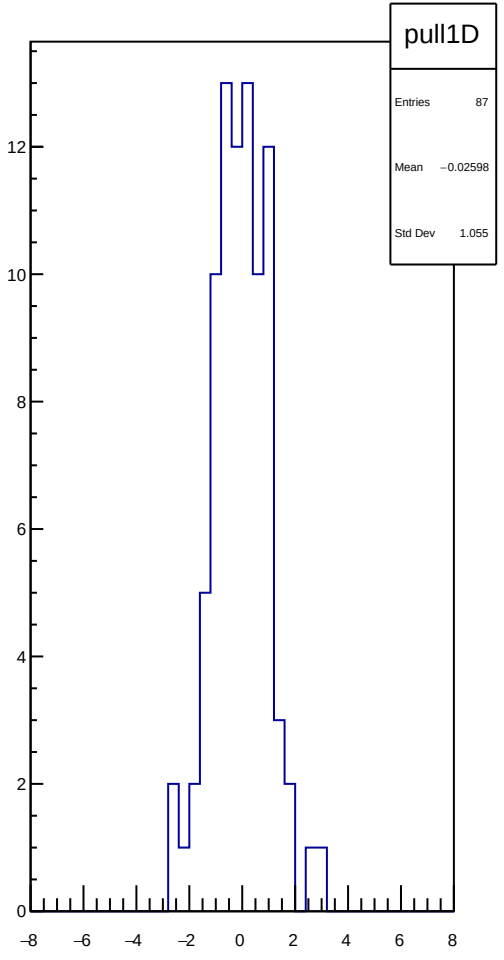

reg_asym_atl2_rms vs run
χ² / ndf 1441 / 86
p0 2199 ± 1.658
2300
2250
2200
2150
2100
2050

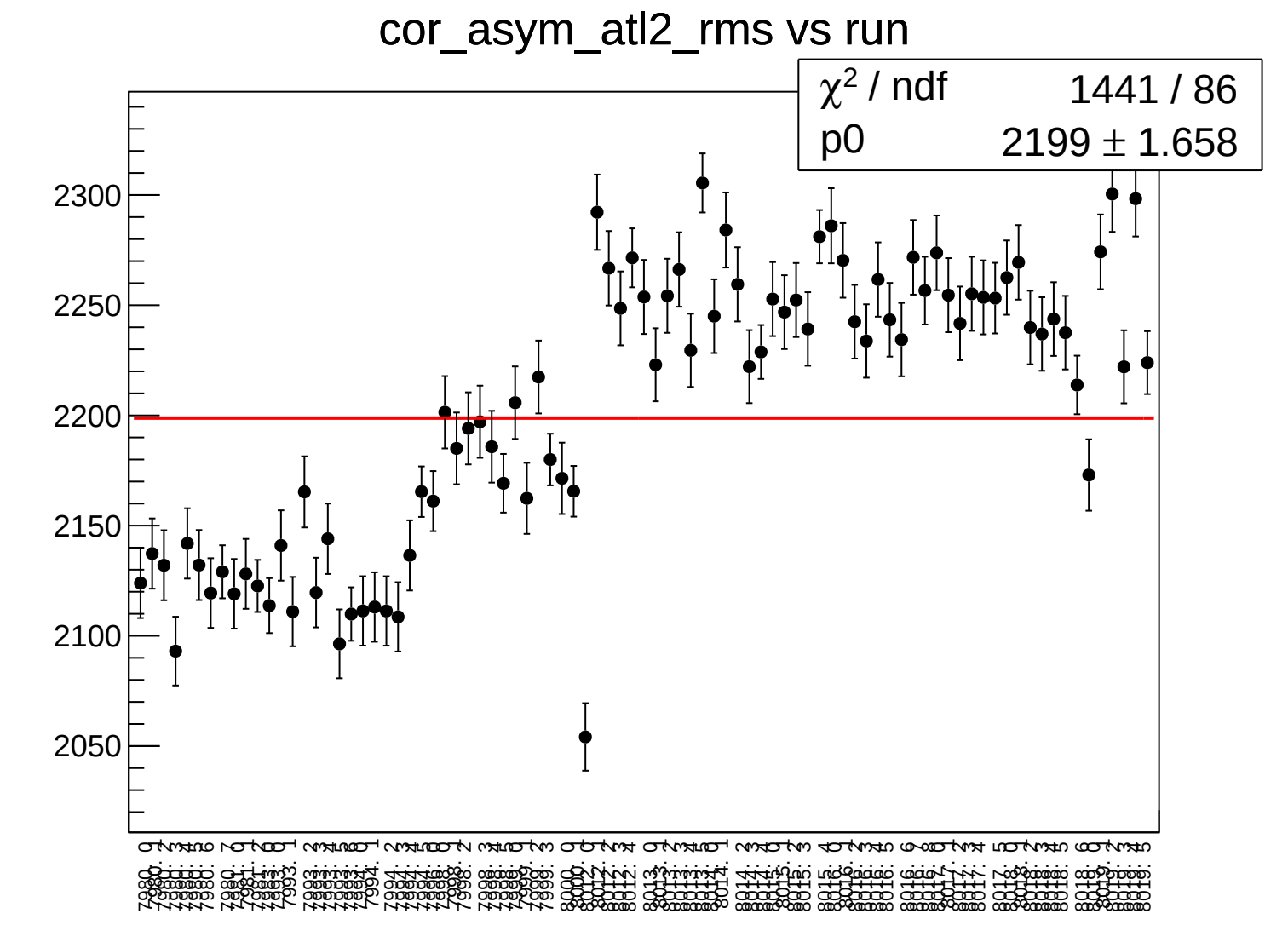

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 83.56 / 86
p0 −2.049e+04 ± 9764
pull
Entries 87
Mean 35.23
Std Dev 90.32

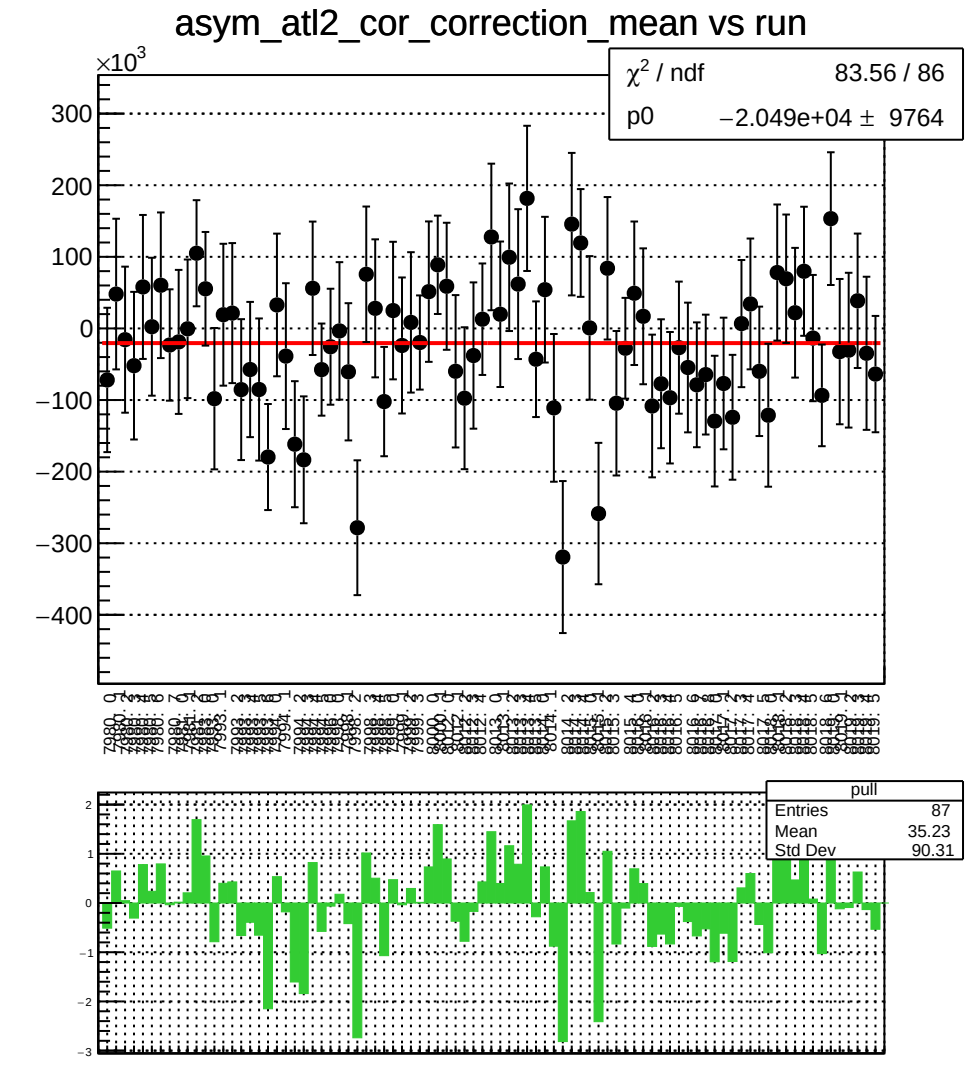

pull1D
Entries 87
Mean 0.002697
Std Dev 0.98

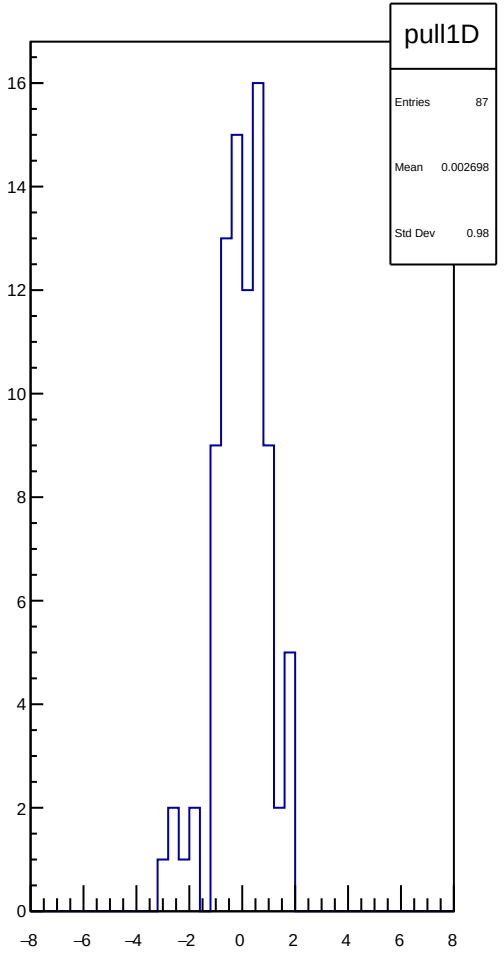

asym_atl2_reg_correction_rms vs run
χ² / ndf 4976 / 86
p0 9148 ± 6.904
10500
10000
9500
9000
8500
8000

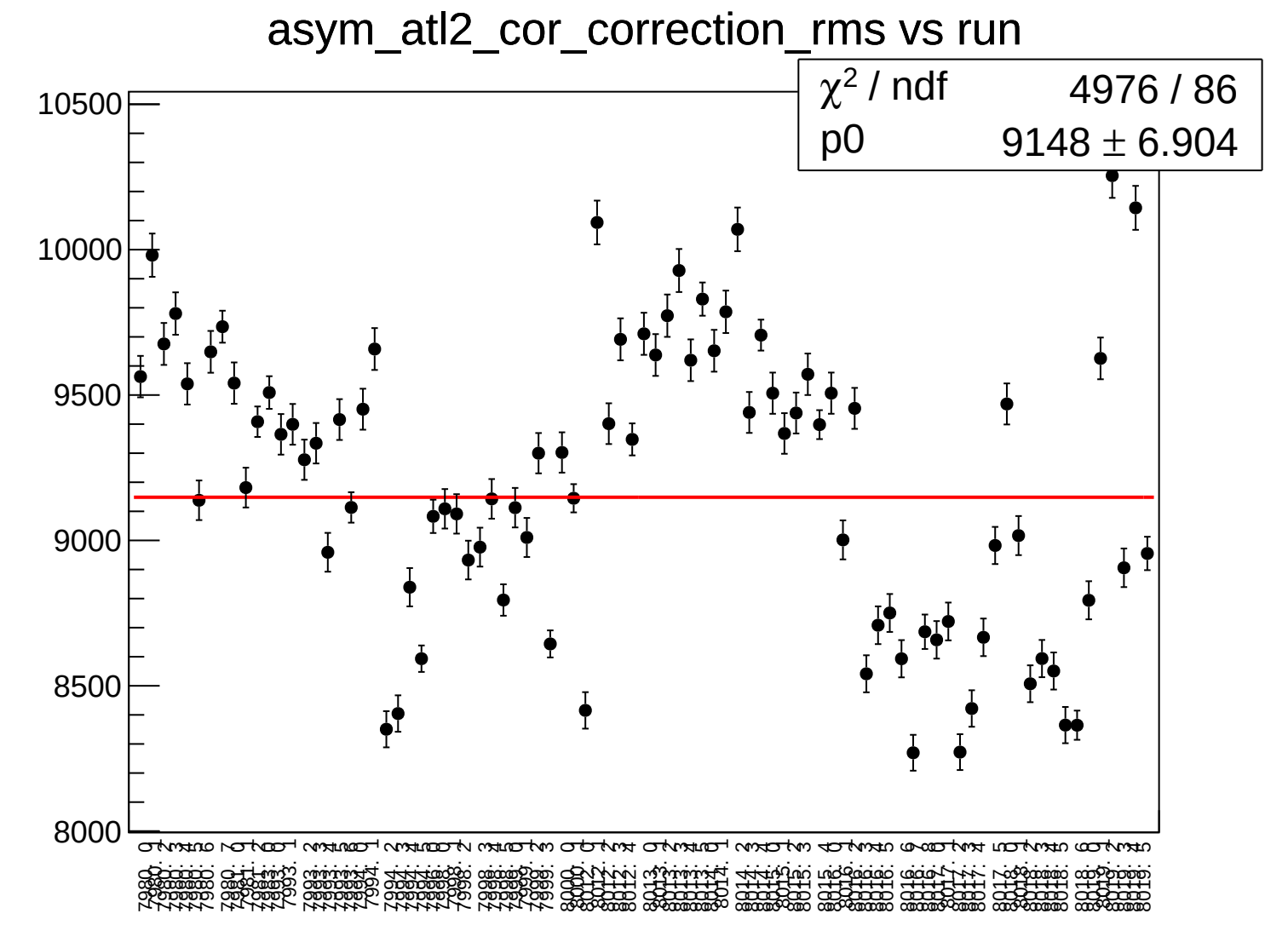

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 96.88 / 86
p0 3813 ± 2344
pull
Entries 87
Mean 120.2
Std Dev 0

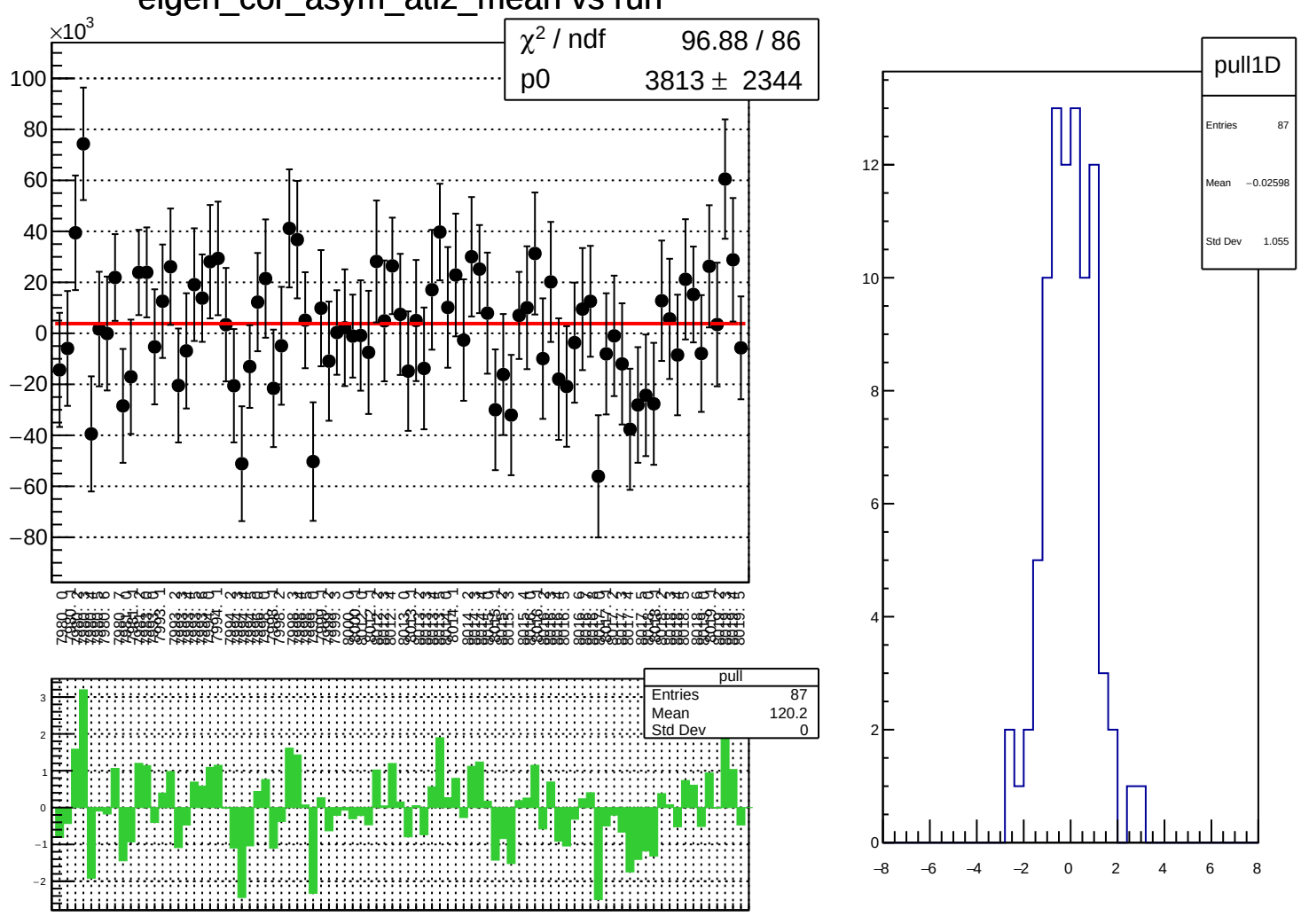

pull1D
Entries 87
Mean −0.02598
Std Dev 1.055

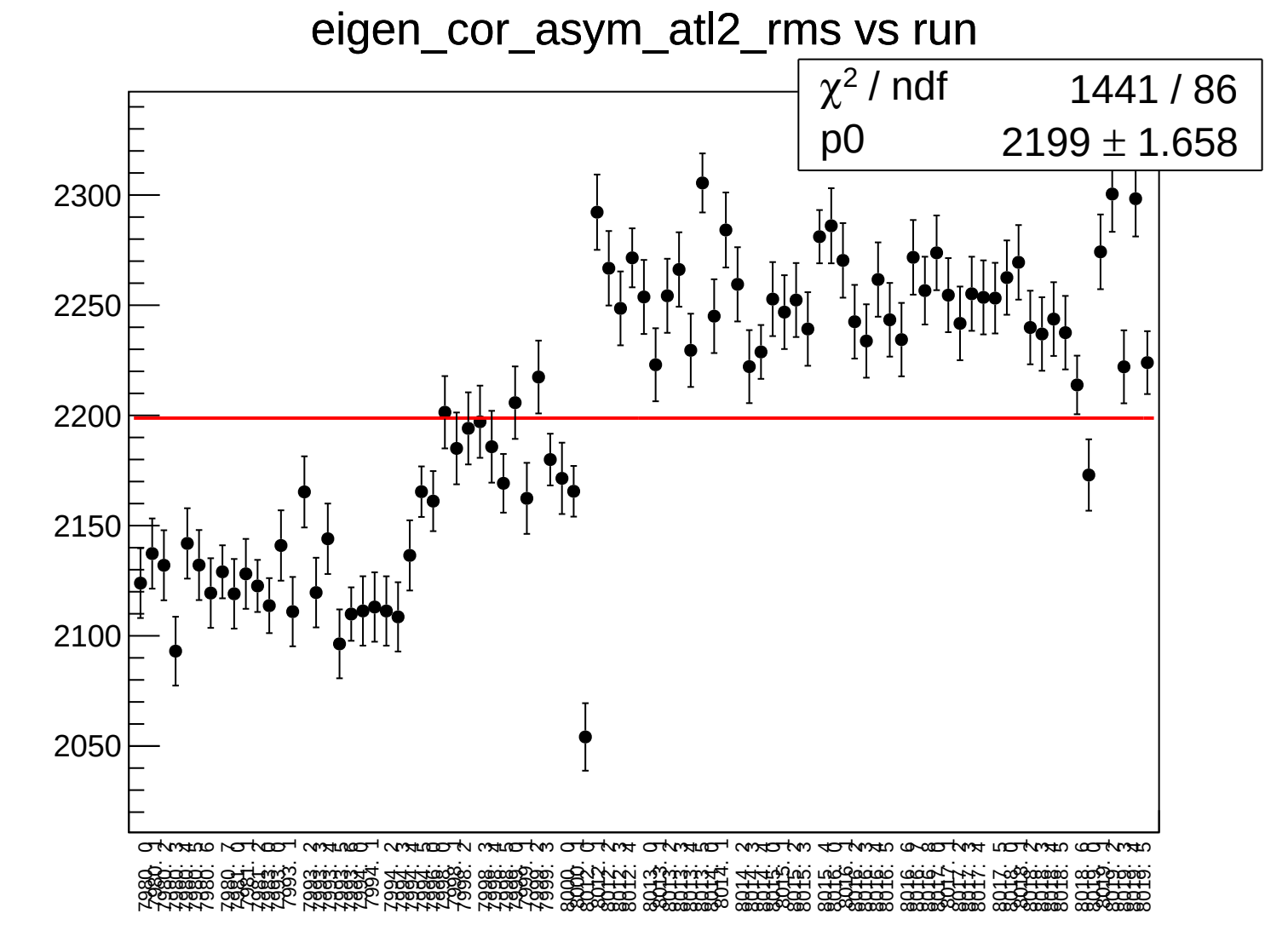

cor_asym_atl2_rms vs run
χ^2 / ndf 1441 / 86
p0 2199 ± 1.658
2300
2250
2200
2150
2100
2050

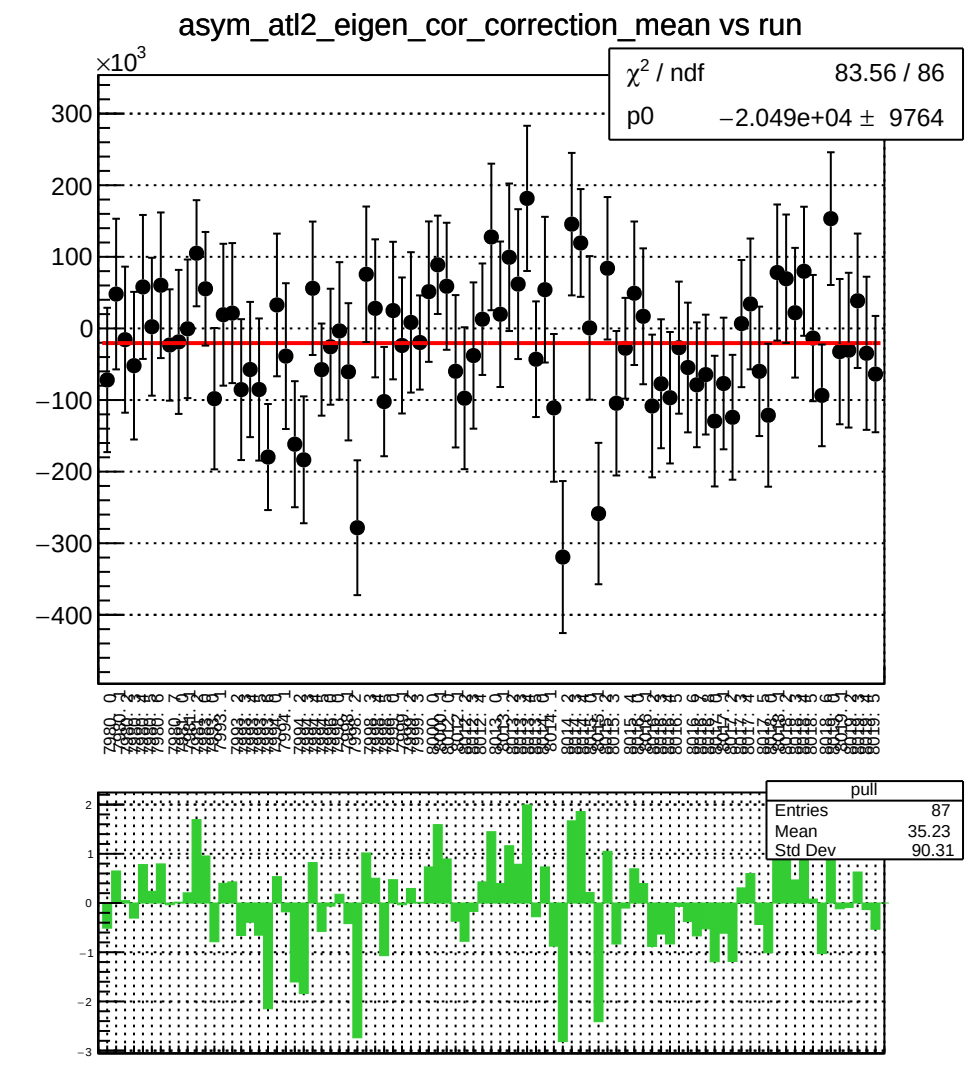

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 83.56 / 86
p0 −2.049e+04 ± 9764
pull
Entries 87
Mean 35.23
Std Dev 90.31

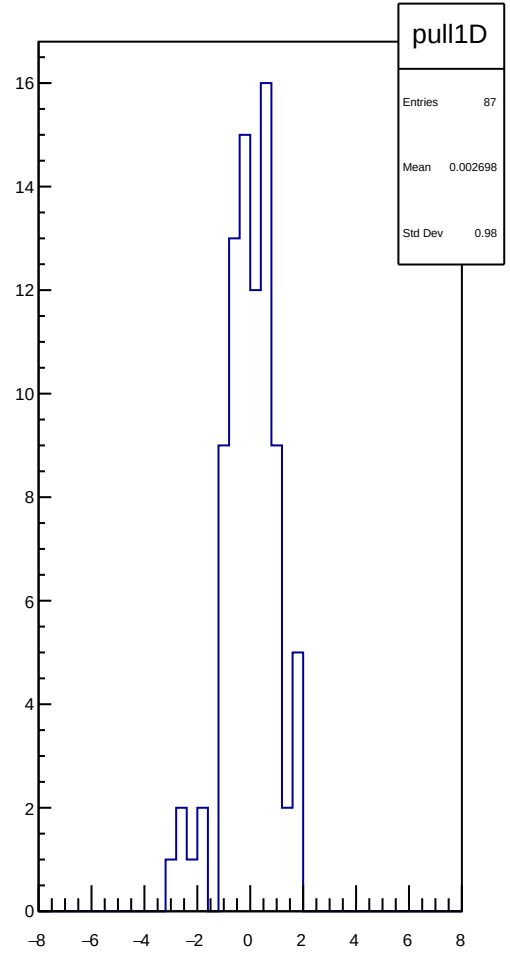

pull1D
Entries 87
Mean 0.002698
Std Dev 0.98

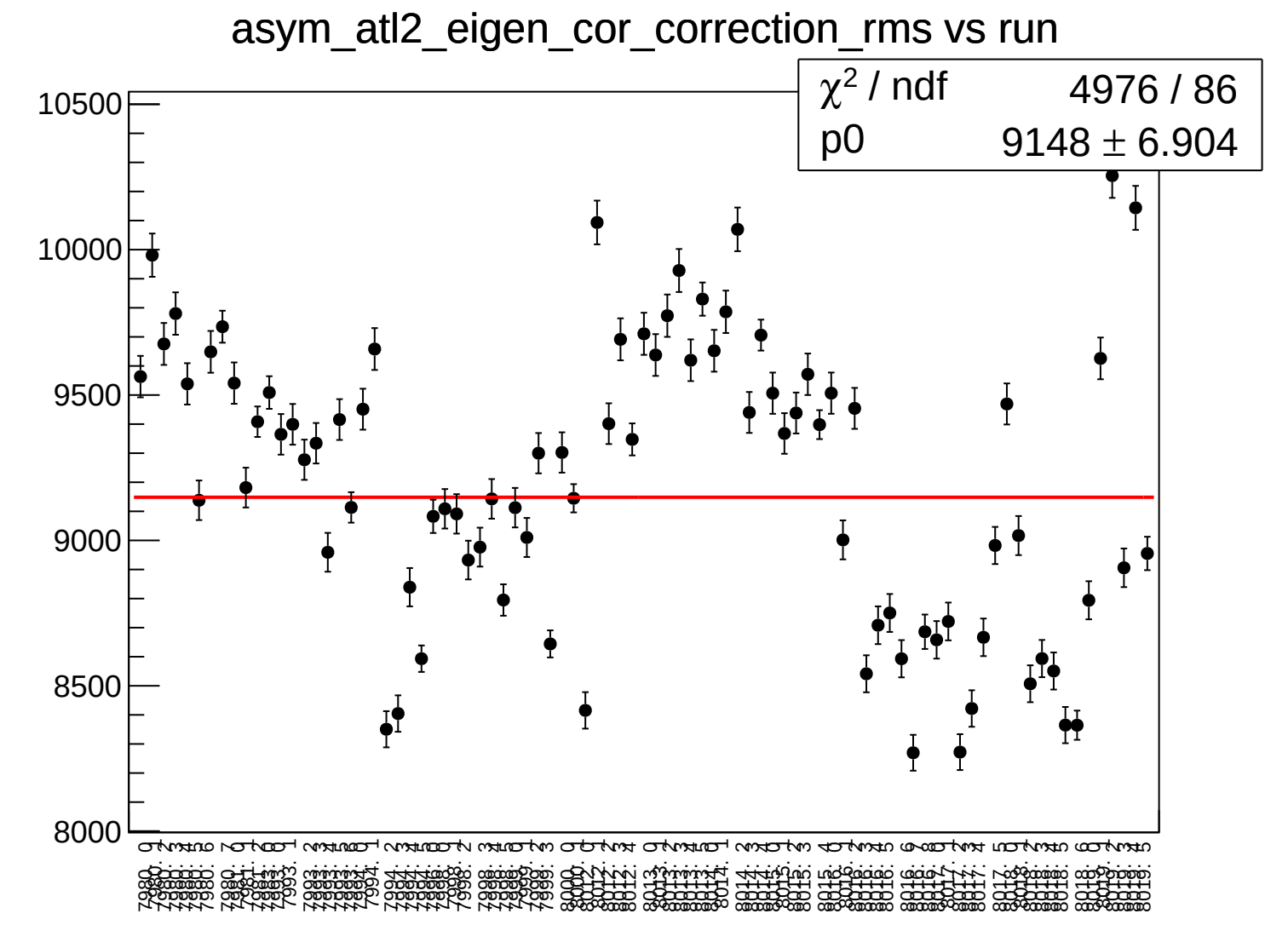

asym_atl2_cor_correction_rms vs run
χ² / ndf 4976 / 86
p0 9148 ± 6.904
10500
10000
9500
9000
8500
8000

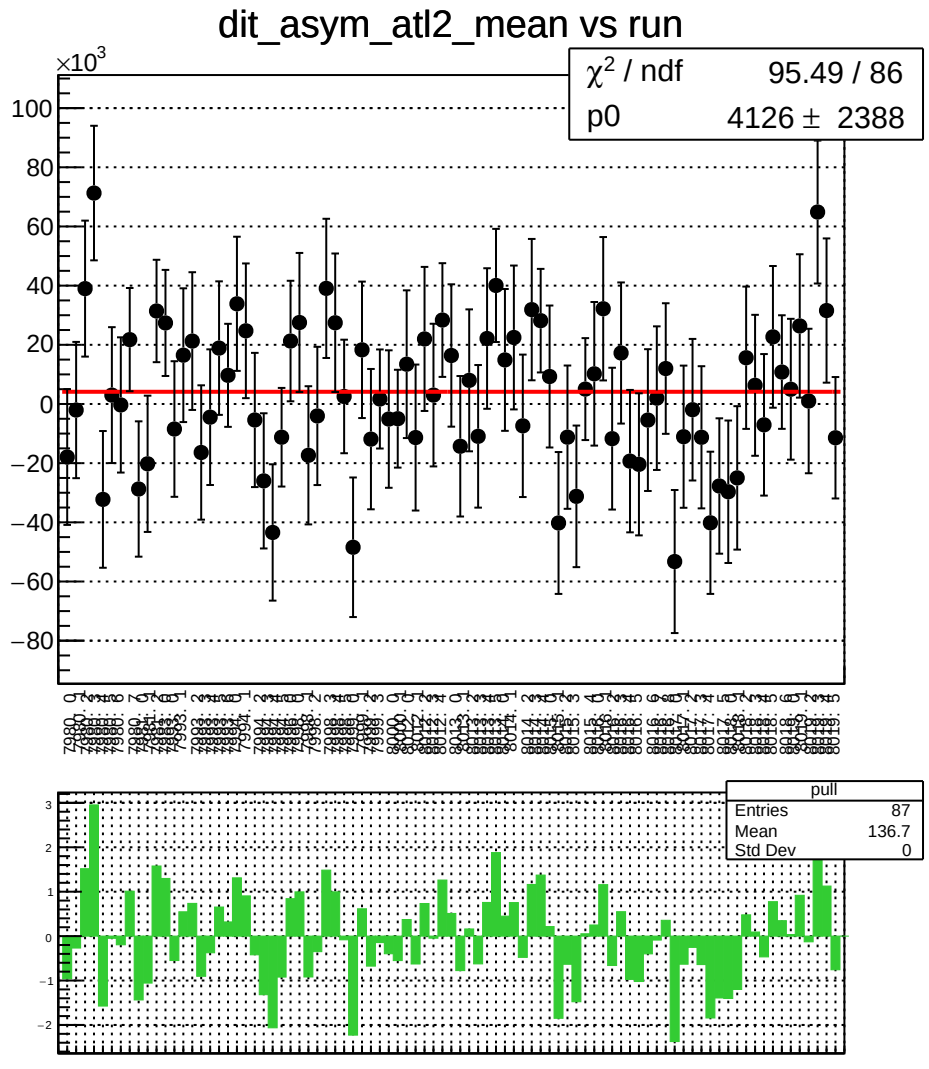

eigen_cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 96.88 / 86
p0 3813 ± 2344
pull
Entries 87
Mean 120.2
Std Dev 0
pull1D
Entries 87
Mean −0.02598
Std Dev 1.055

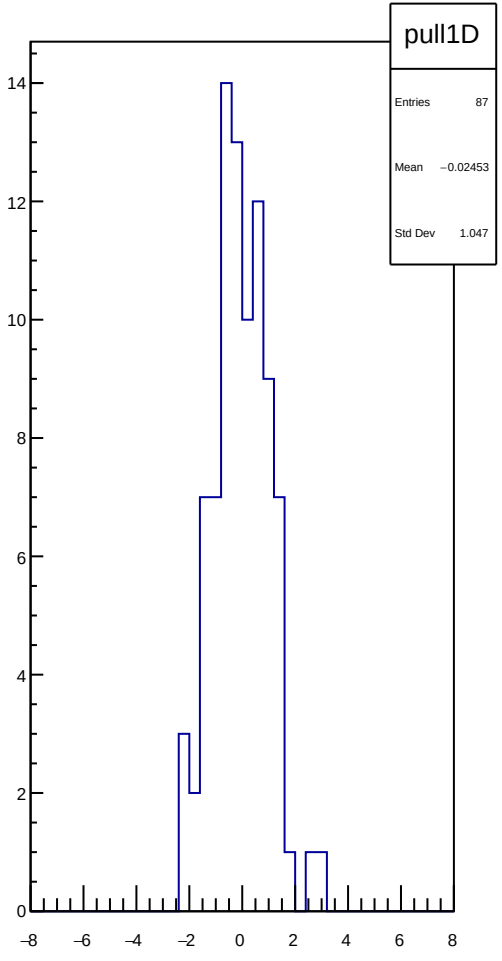

eigen_cor_asym_atl2_rms vs run
χ² / ndf 1441 / 86
p0 2199 ± 1.658
2300
2250
2200
2150
2100
2050

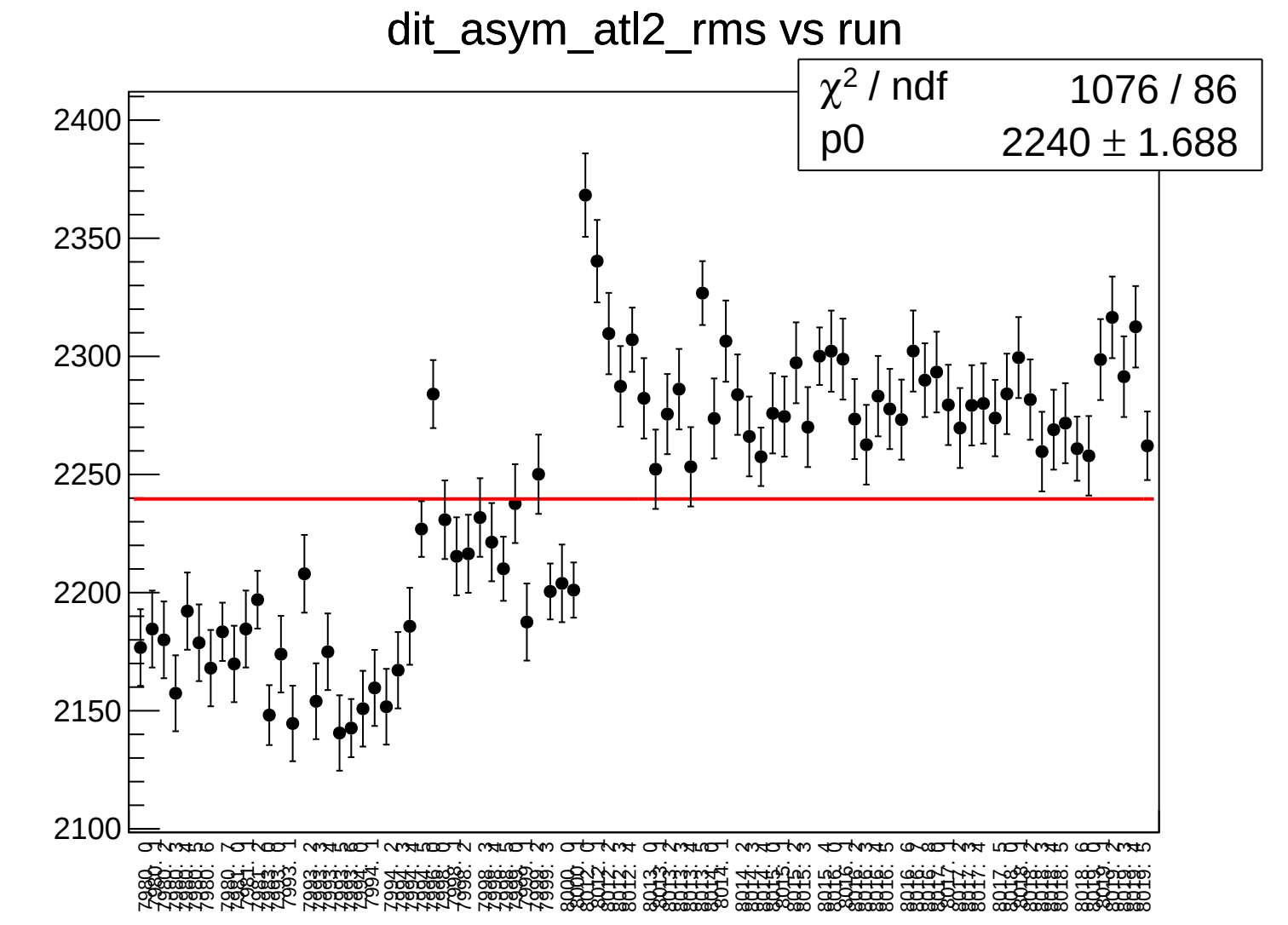

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.56 / 86
p0 −2.049e+04 ± 9764
pull
Entries 87
Mean 35.23
Std Dev 90.31

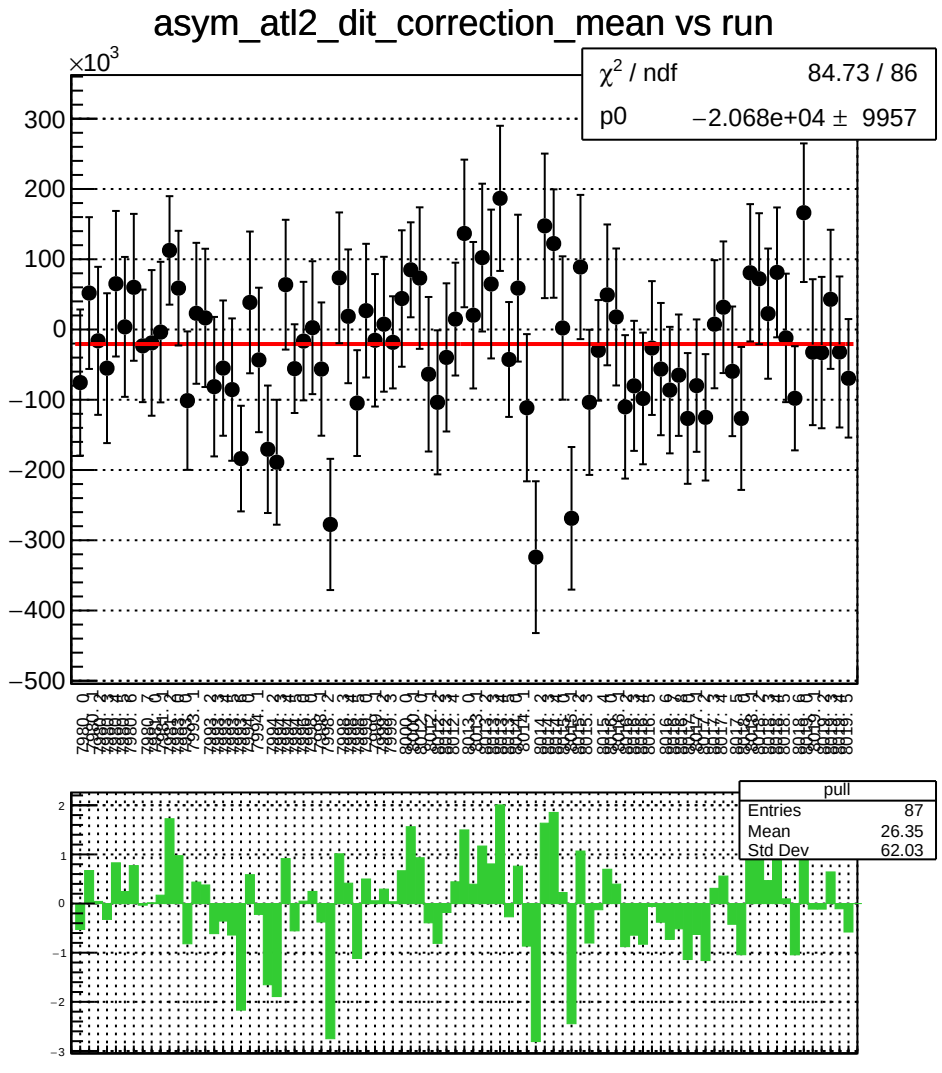

pull1D
Entries 87
Mean 0.002698
Std Dev 0.98

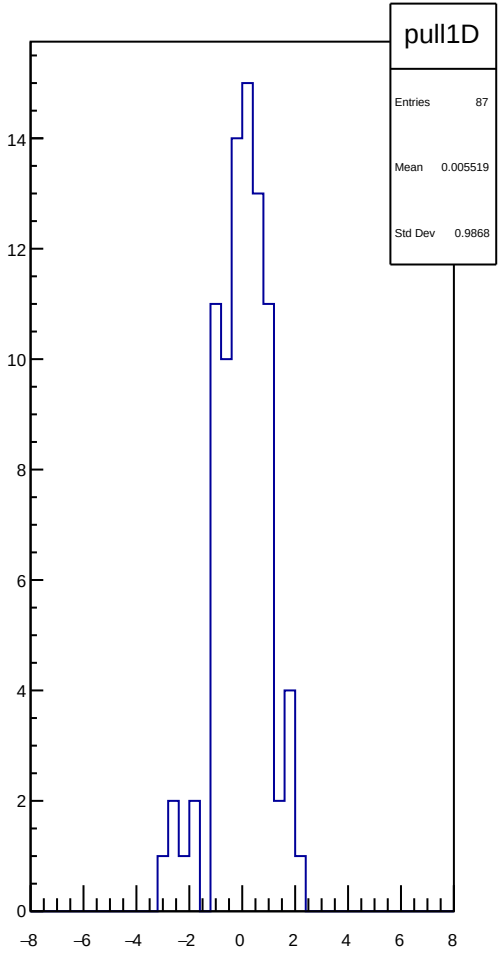

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 4976 / 86
p0 9148 ± 6.904
10500
10000
9500
9000
8500
8000

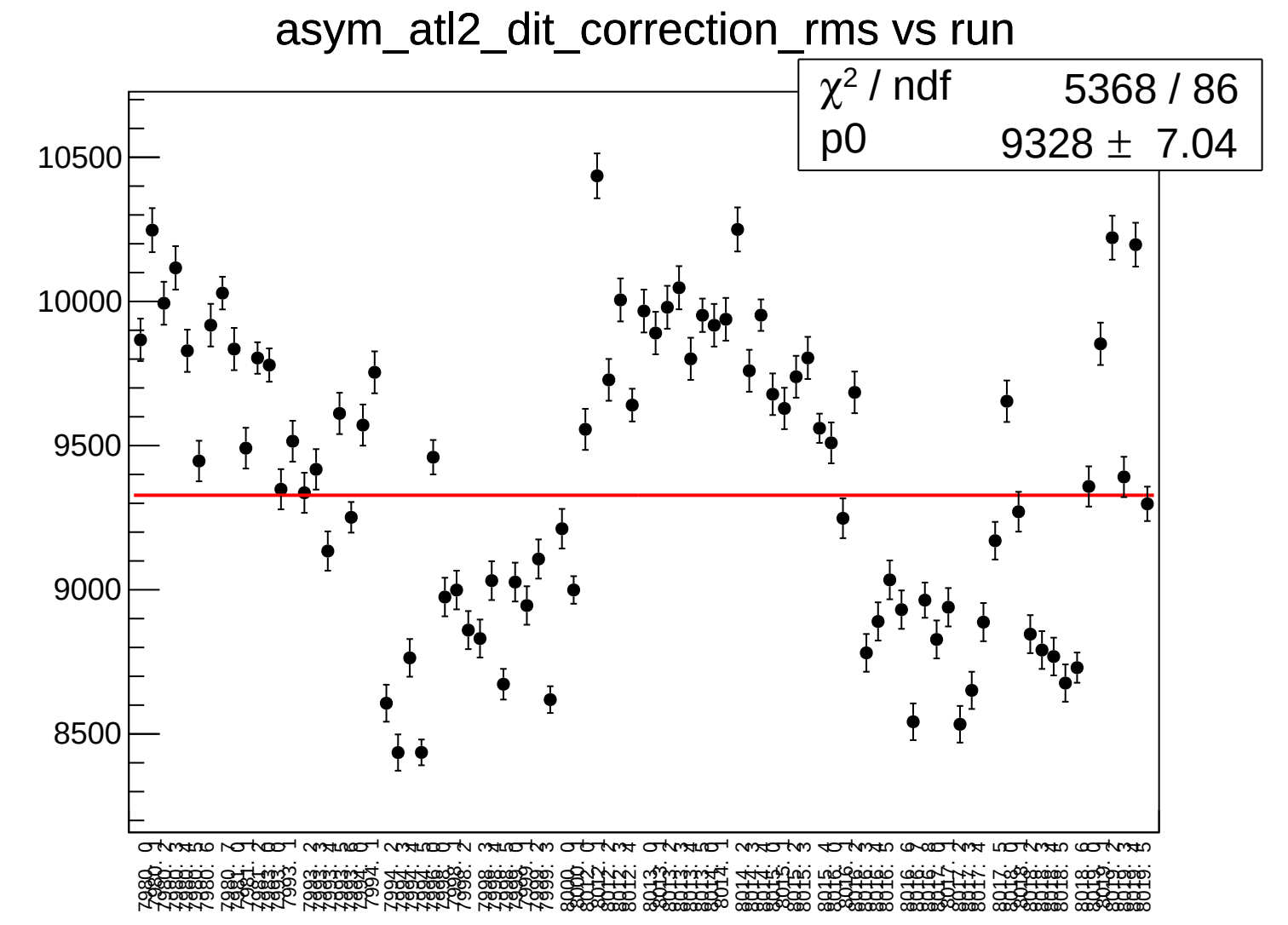

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 95.49 / 86
p0 4126 ± 2388
pull
Entries 87
Mean 136.7
Std Dev 0

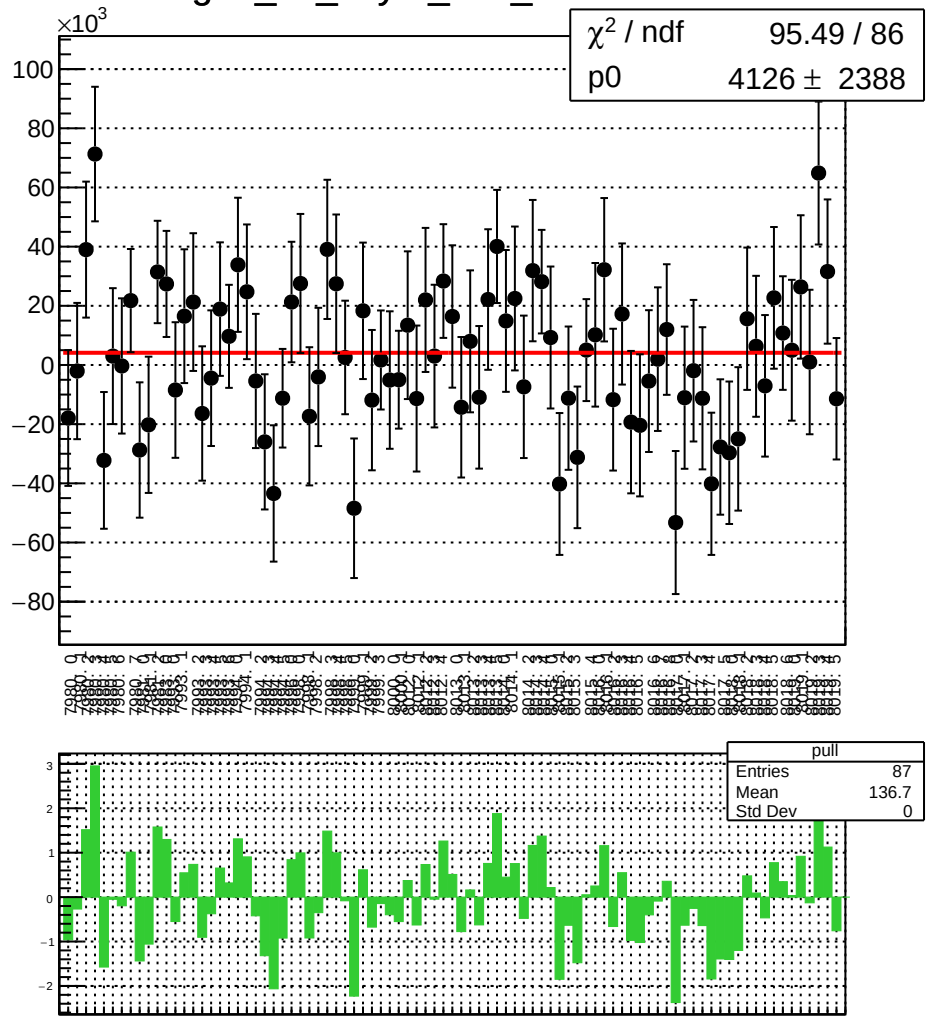

pull1D
Entries 87
Mean −0.02453
Std Dev 1.047

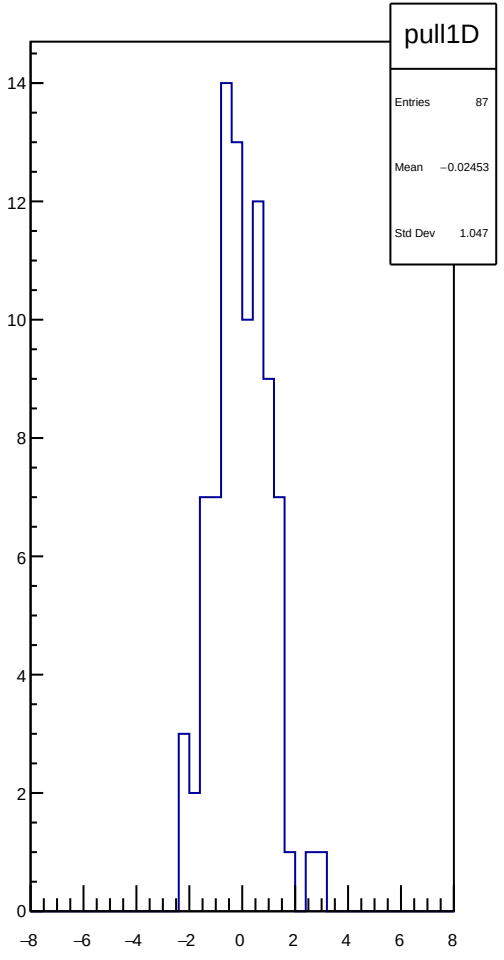

dit_asym_atl2_rms vs run
χ² / ndf 1076 / 86
p0 2240 ± 1.688
2400
2350
2300
2250
2200
2150
2100

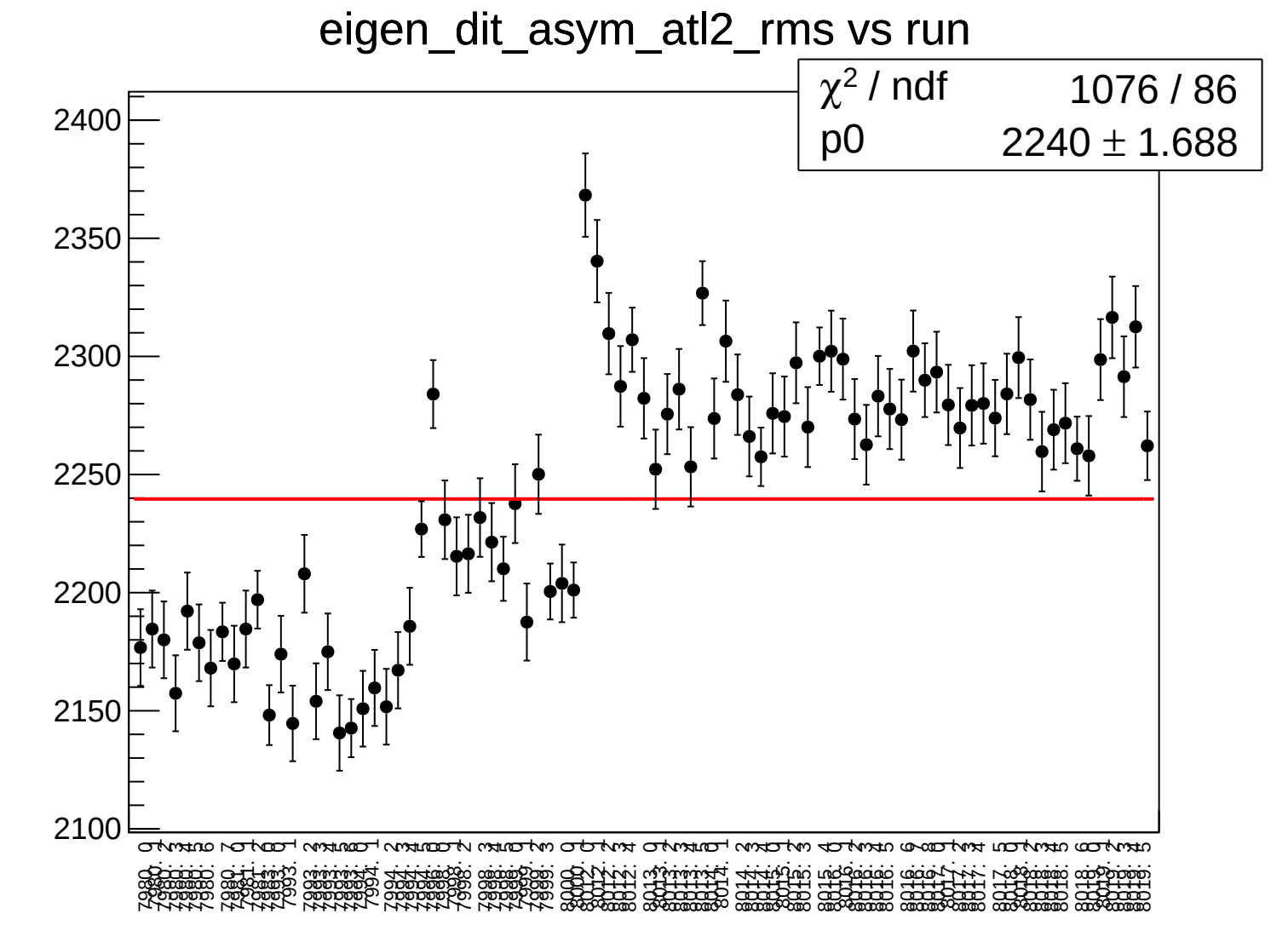

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 84.73 / 86
p0 −2.068e+04 ± 9957
pull
Entries 87
Mean 26.35
Std Dev 62.03

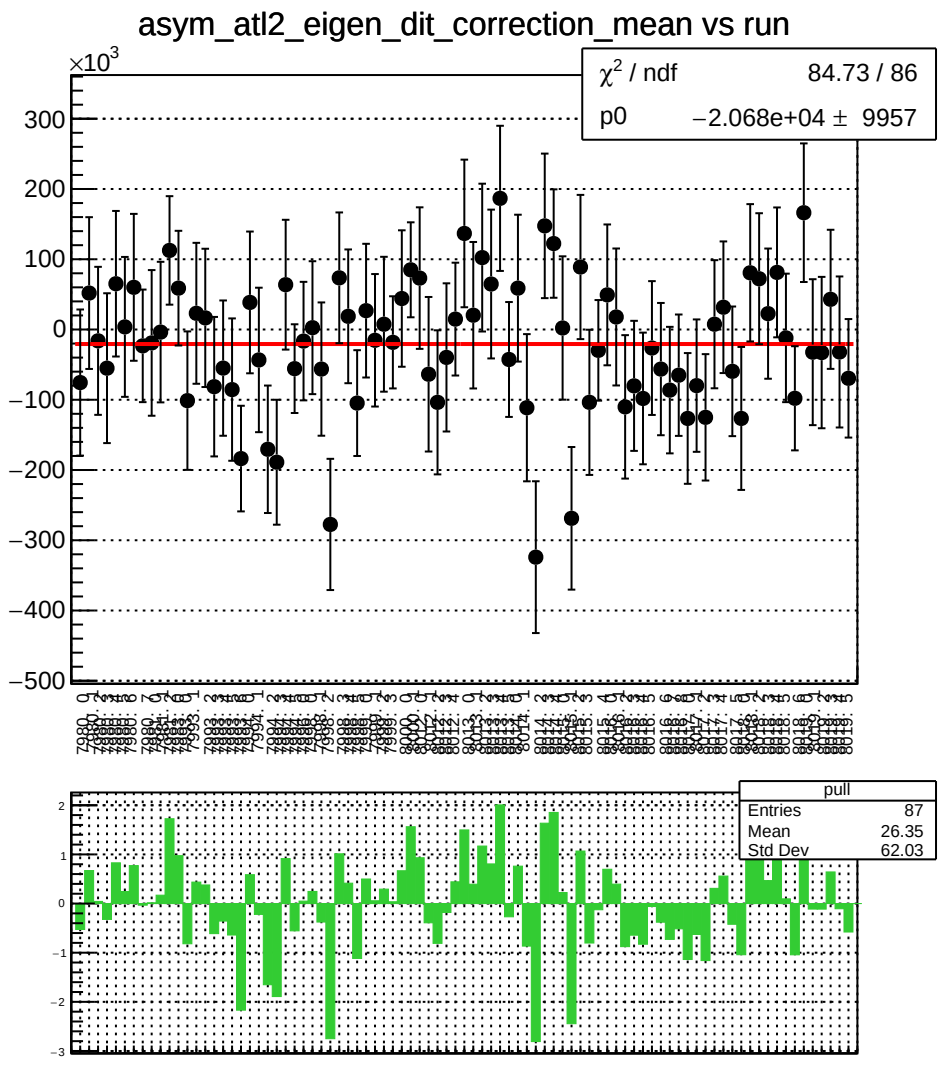

pull1D
Entries 87
Mean 0.005519
Std Dev 0.9868

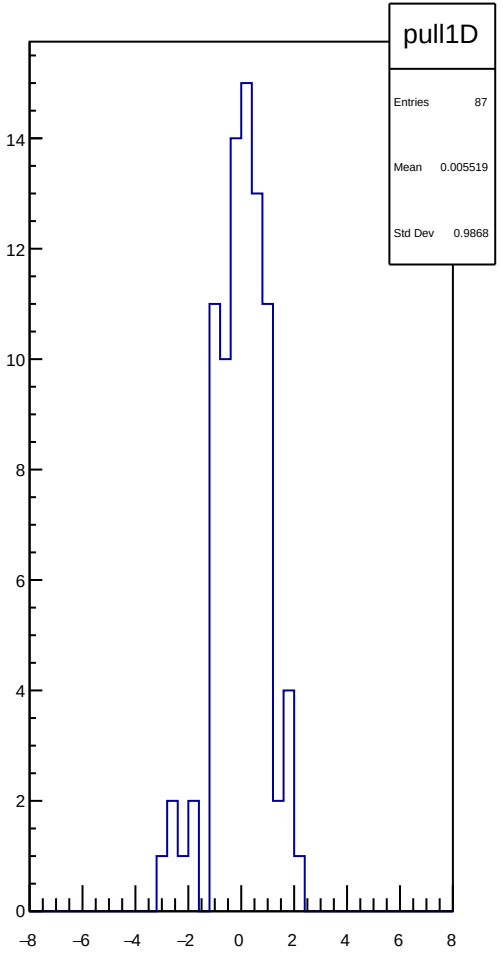

asym_atl2_dit_correction_rms vs run
χ² / ndf 5368 / 86
p0 9328 ± 7.04
10500
10000
9500
9000
8500

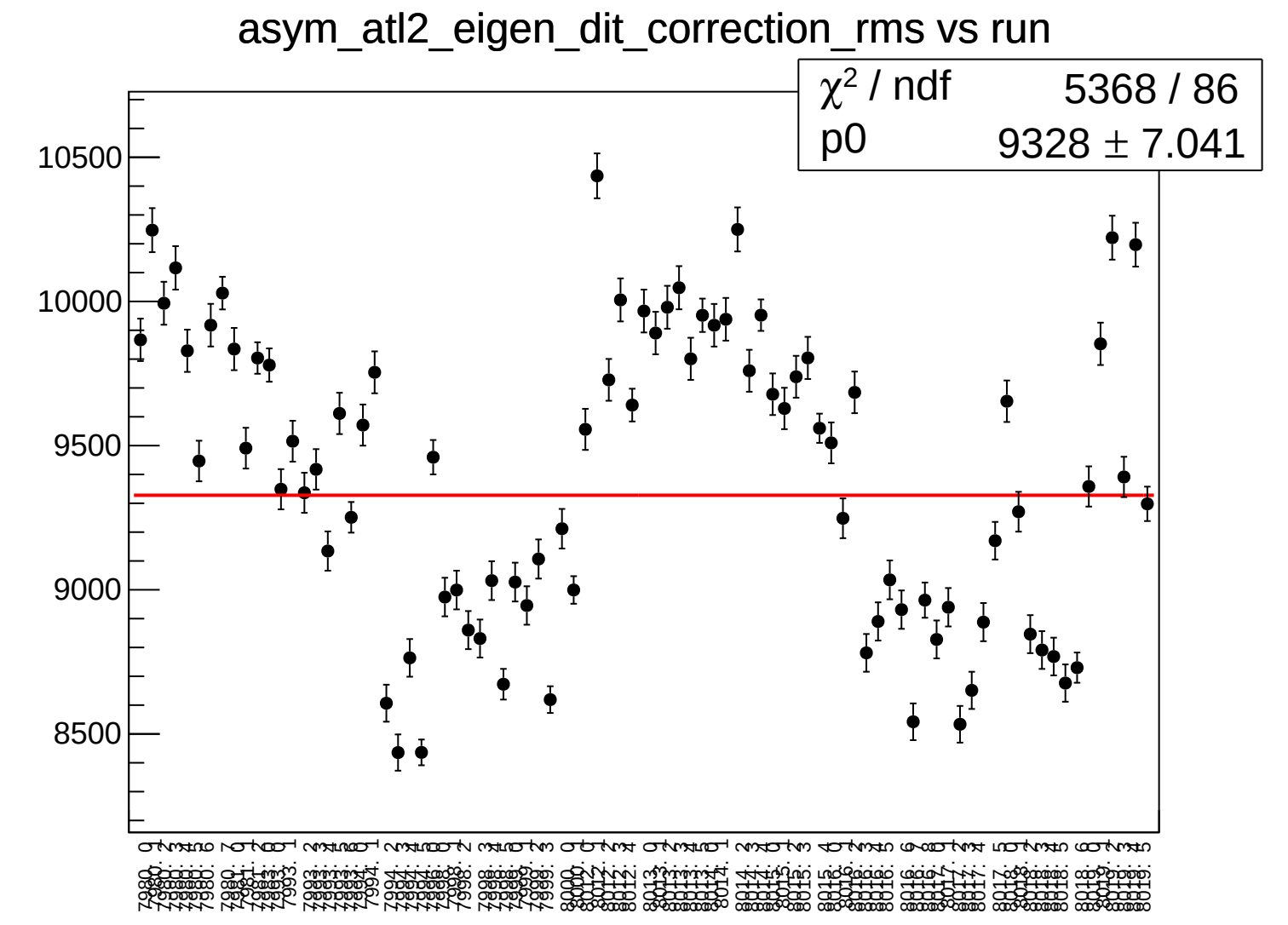

eigen_dit_asym_atl2_mean vs run
χ² / ndf 95.49 / 86
p0 4126 ± 2388
pull
Entries 87
Mean 136.7
Std Dev 0

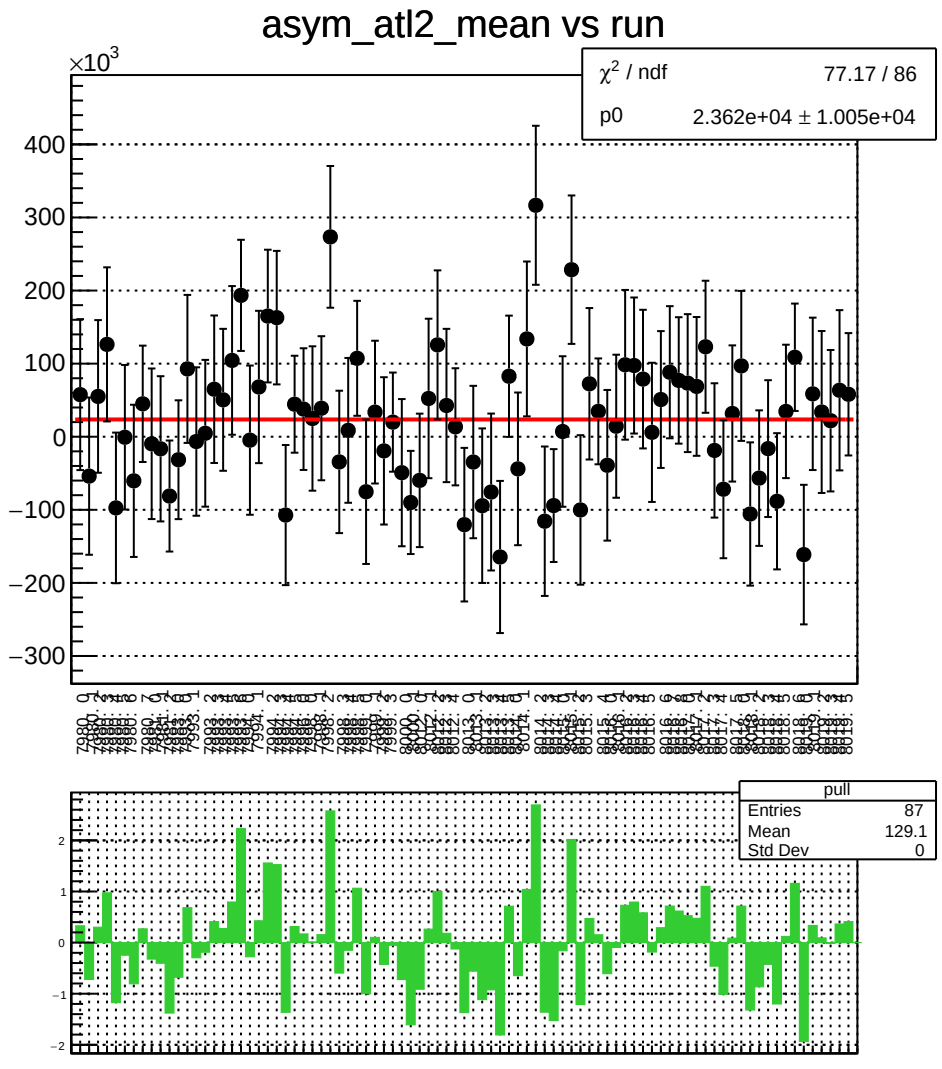

pull1D
Entries 87
Mean −0.02453
Std Dev 1.047

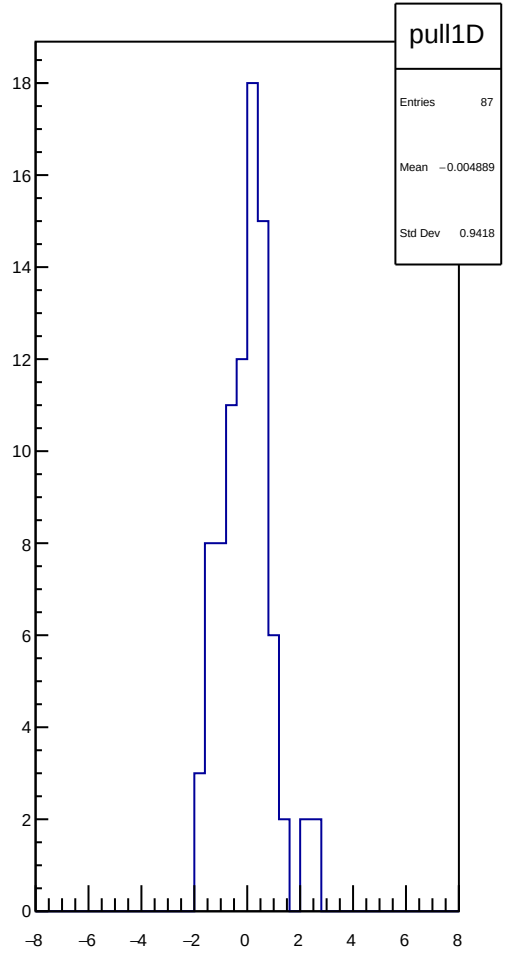

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 1076 / 86
p0 2240 ± 1.688
2400
2350
2300
2250
2200
2150
2100

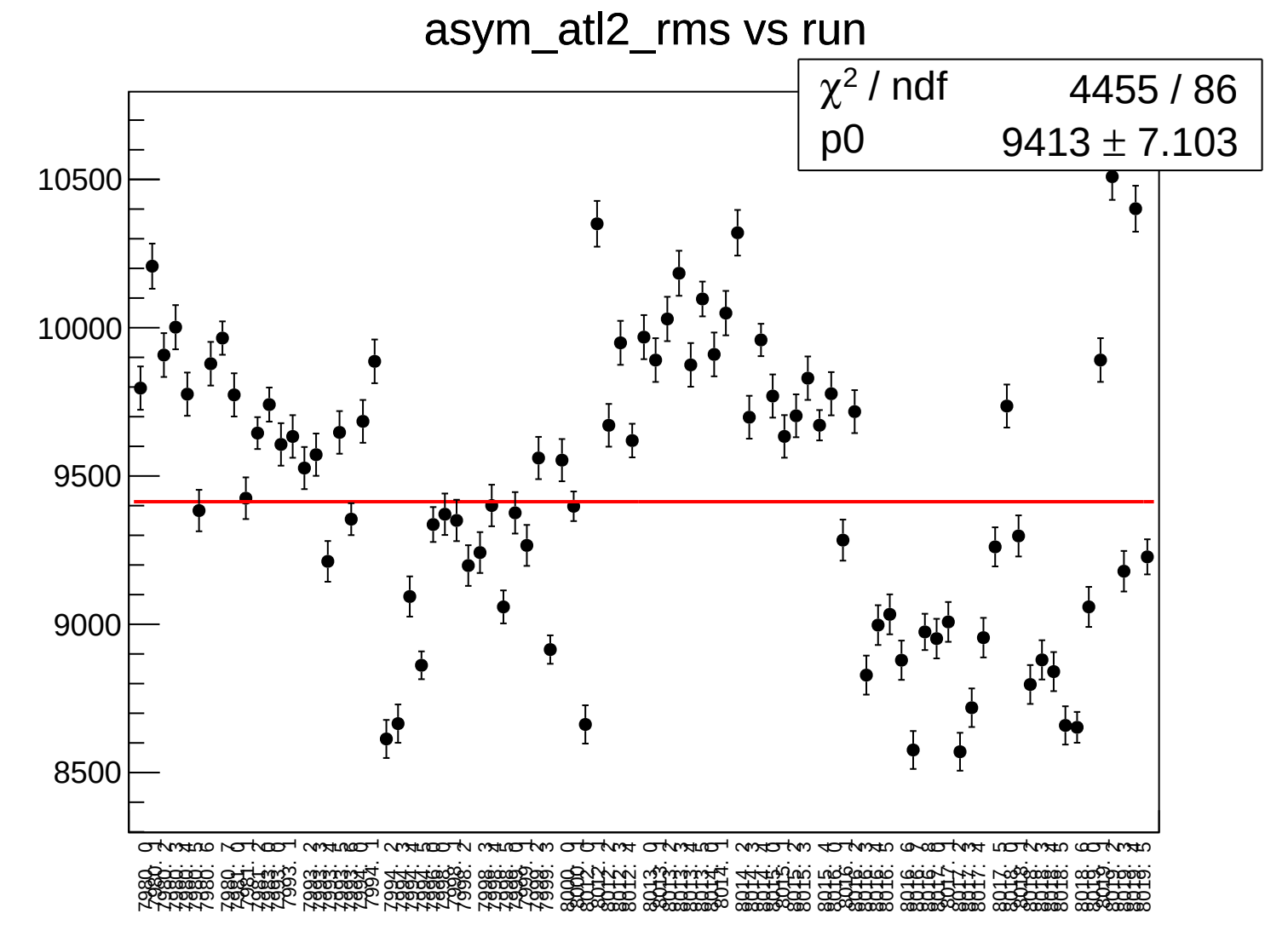

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.73 / 86
p0 −2.068e+04 ± 9957
pull
Entries 87
Mean 26.35
Std Dev 62.03

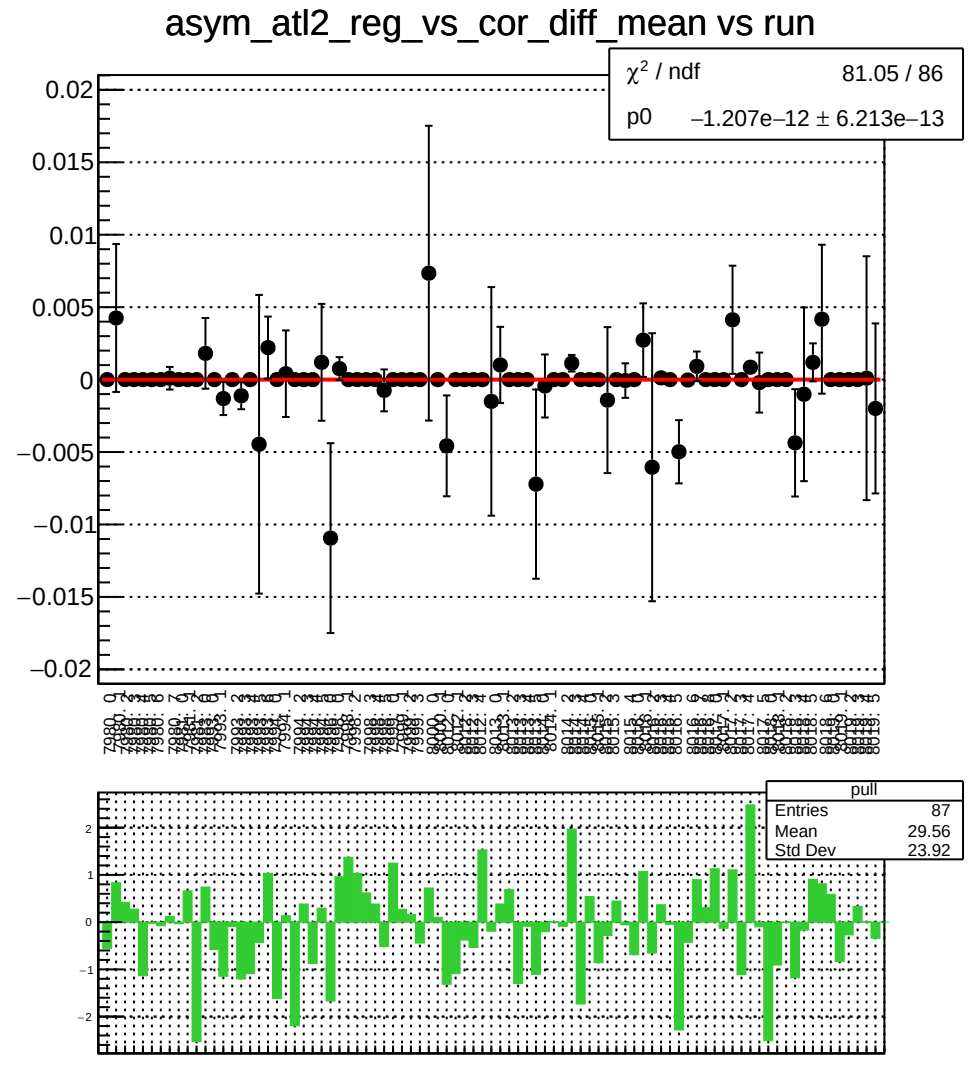

pull1D
Entries 87
Mean 0.005519
Std Dev 0.9868

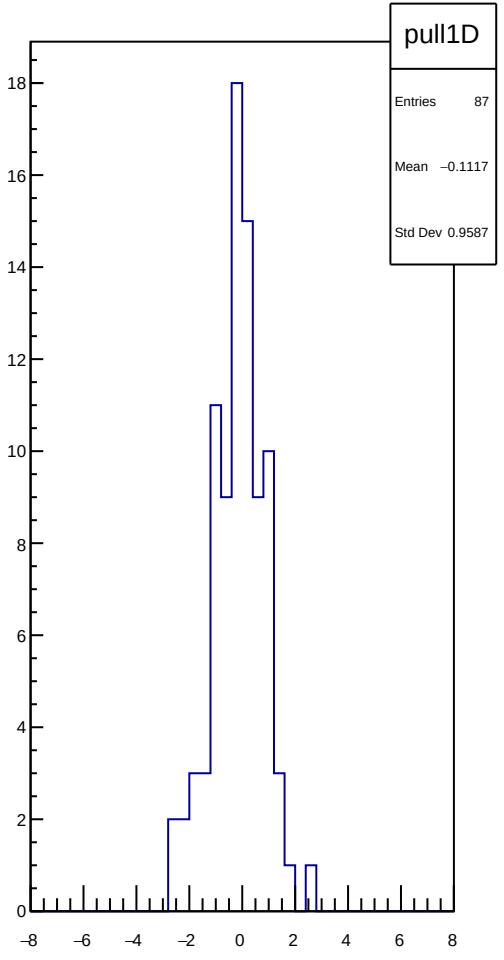

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 5368 / 86
p0 9328 ± 7.041
10500
10000
9500
9000
8500

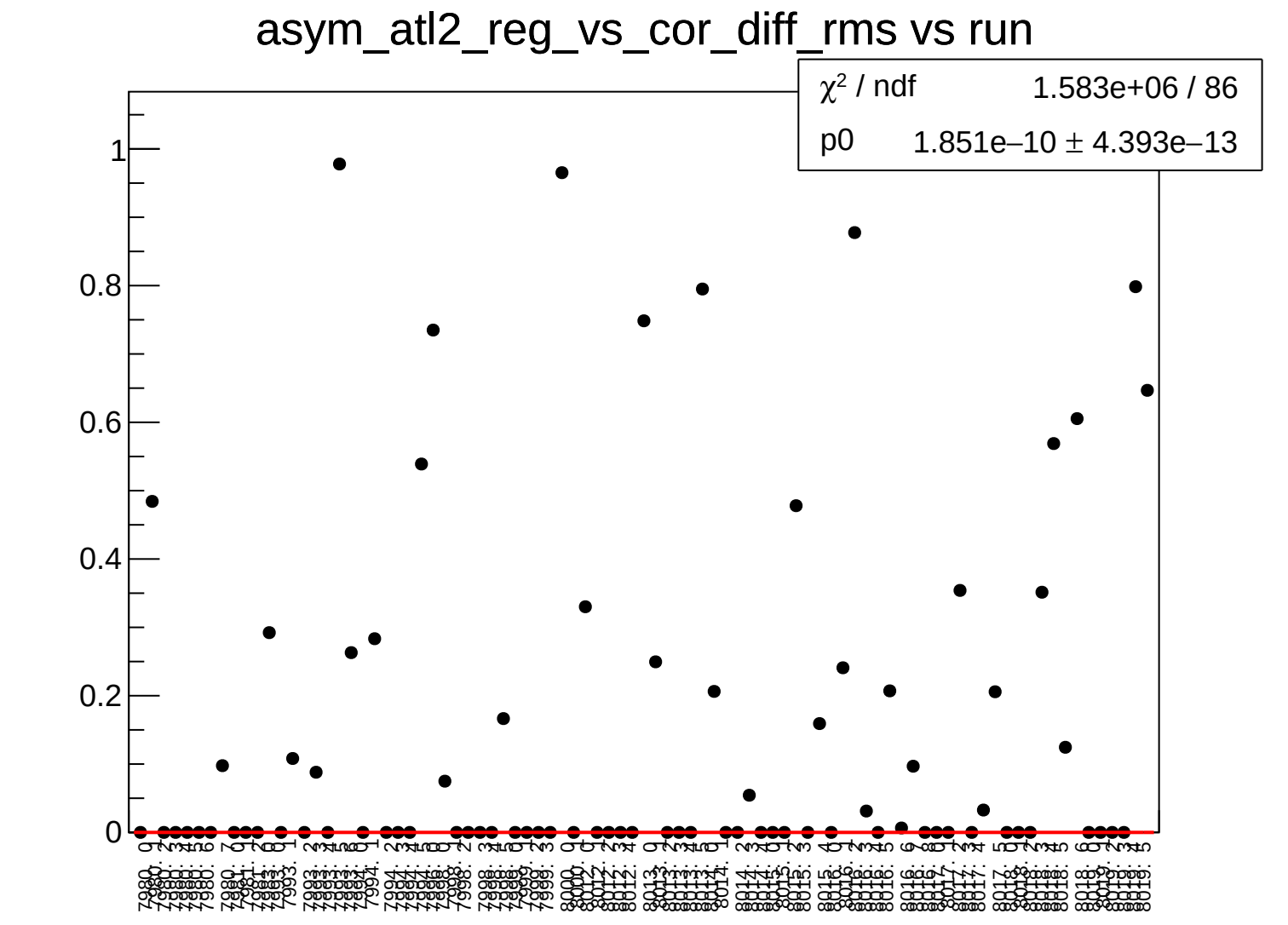

asym_atl2_mean vs run
×10^3
χ² / ndf 77.17 / 86
p0 2.362e+04 ± 1.005e+04
pull
Entries 87
Mean 129.1
Std Dev 0

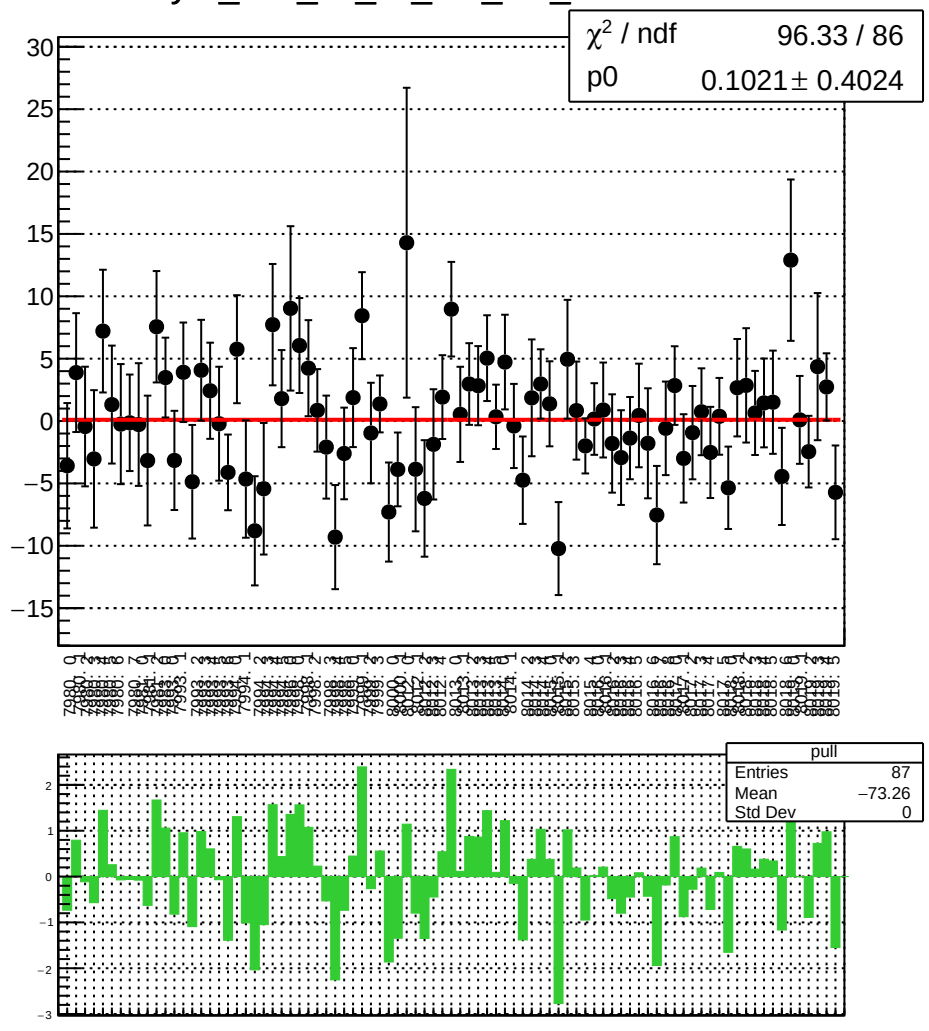

pull1D
Entries 87
Mean −0.004889
Std Dev 0.9418

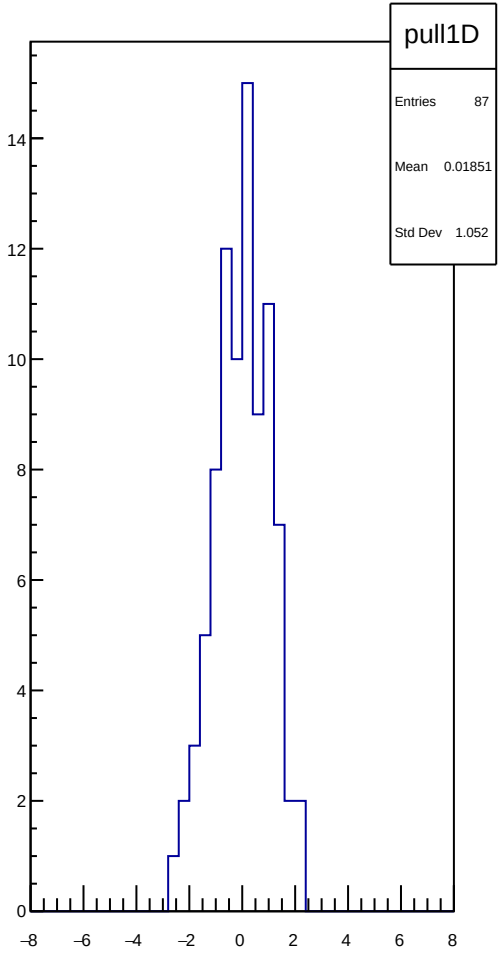

asym_atl2_rms vs run
χ² / ndf 4455 / 86
p0 9413 ± 7.103
10500
10000
9500
9000
8500

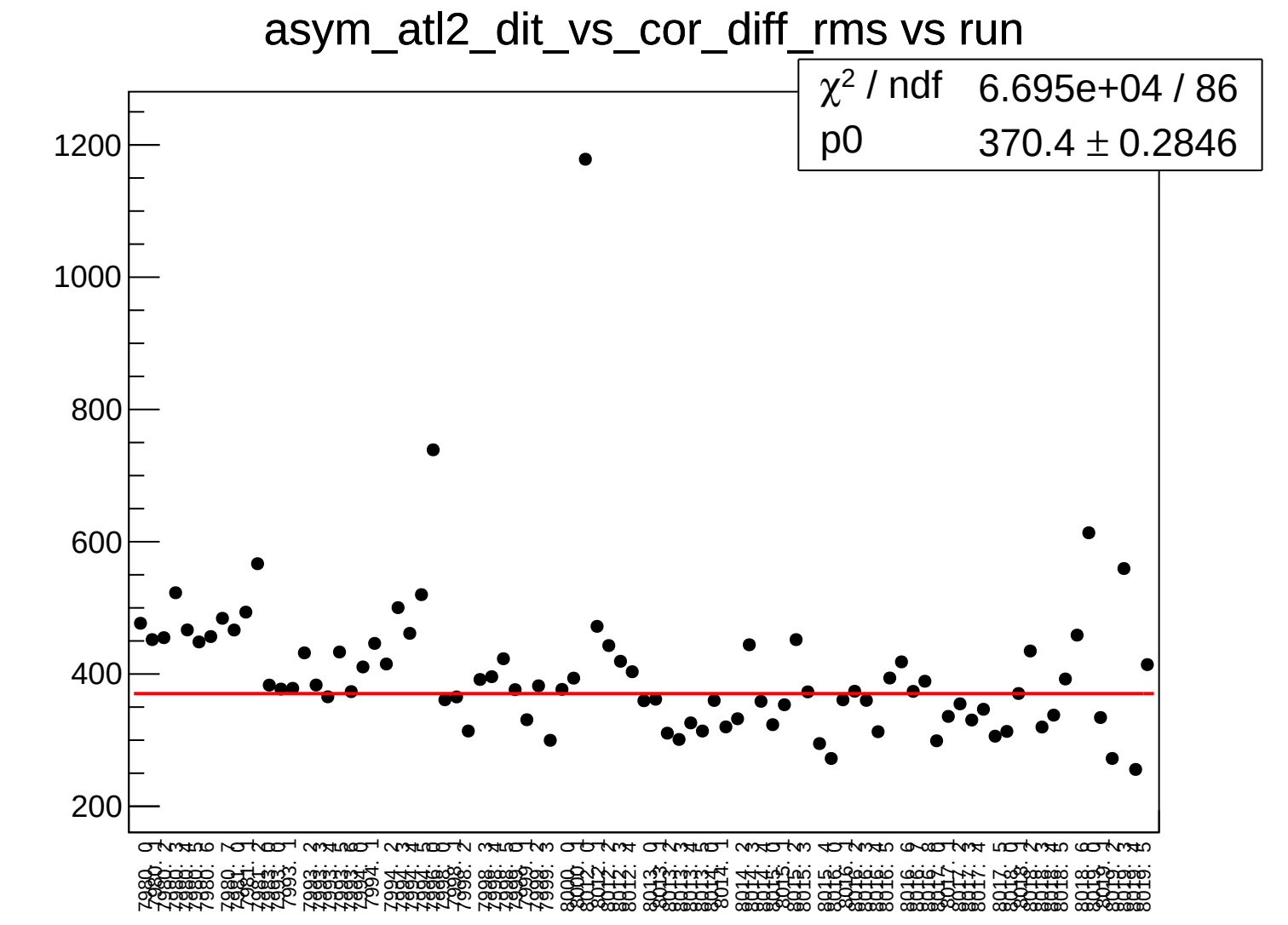

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 81.05 / 86
p0 −1.207e−12 ± 6.213e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 87
Mean 29.56
Std Dev 23.92
2
1
0
−1
−2

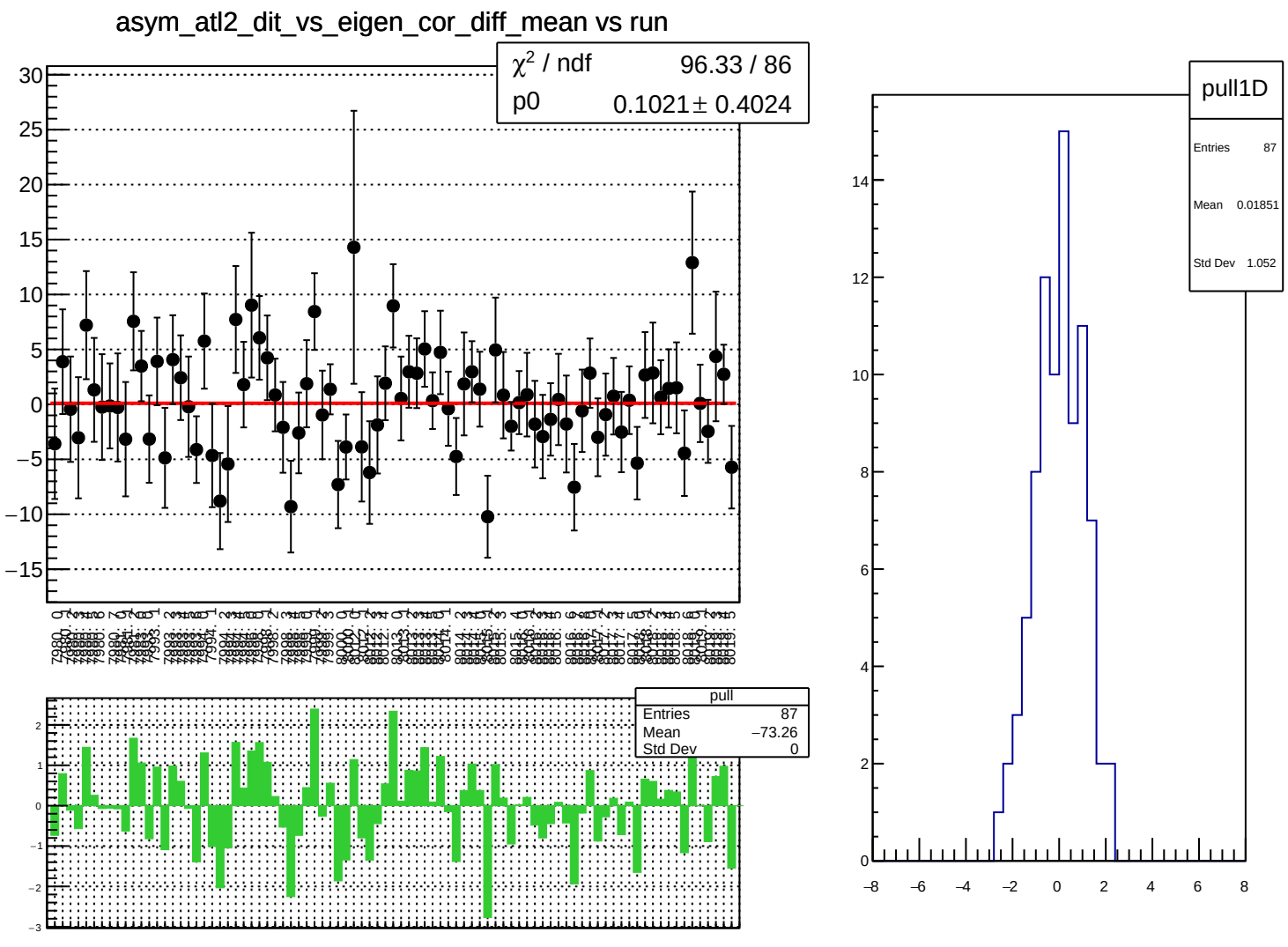

pull1D
Entries 87
Mean −0.1117
Std Dev 0.9587
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

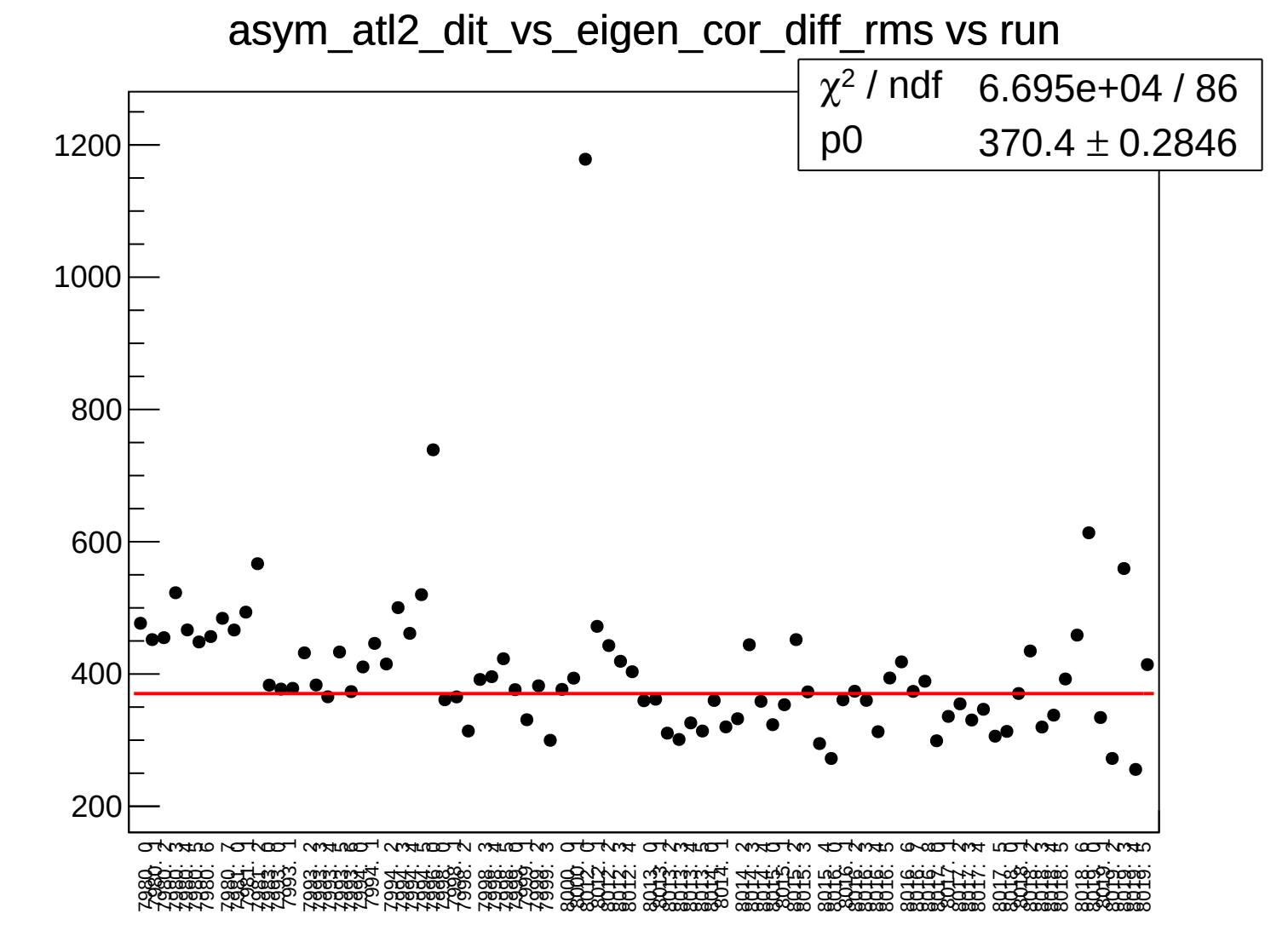

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.583e+06 / 86
p0 1.851e−10 ± 4.393e−13
1
0.8
0.6
0.4
0.2
0

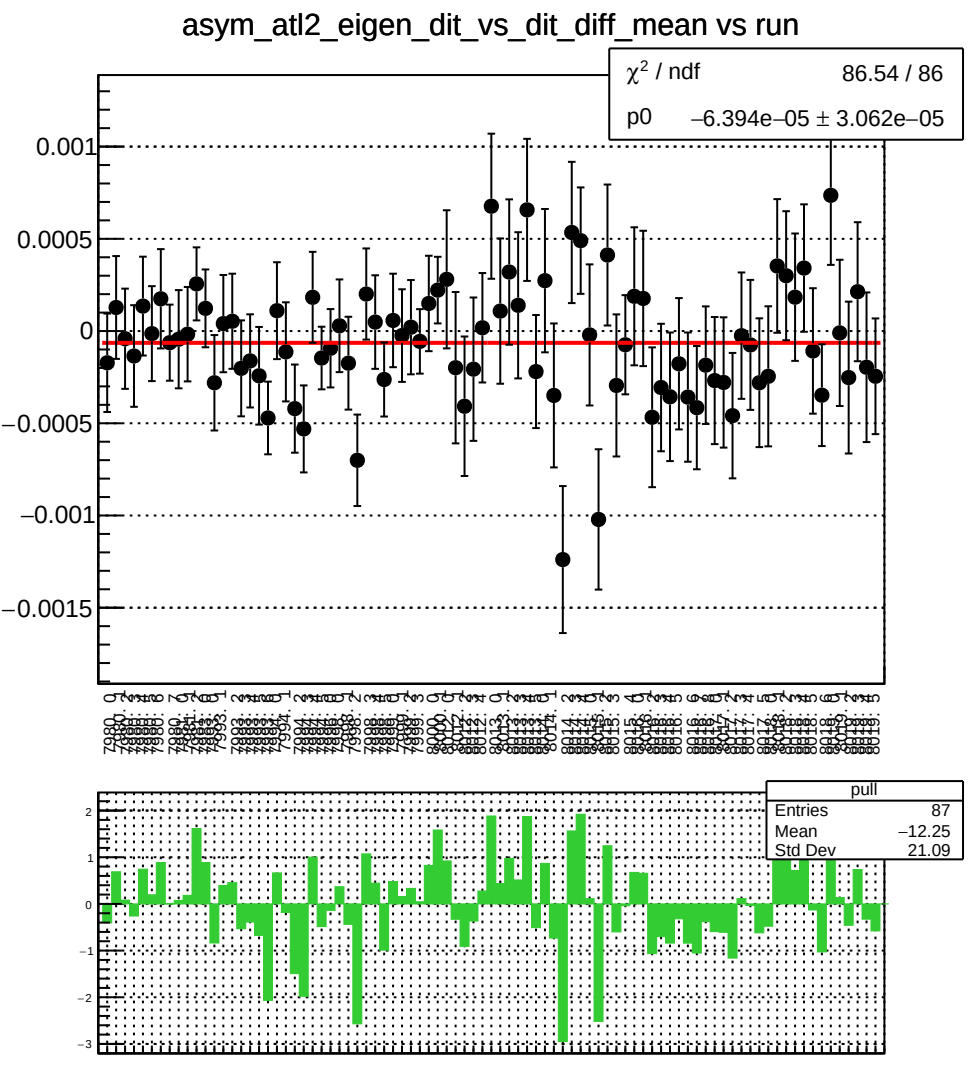

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 96.33 / 86
p0 0.1021± 0.4024
pull
Entries 87
Mean −73.26
Std Dev 0

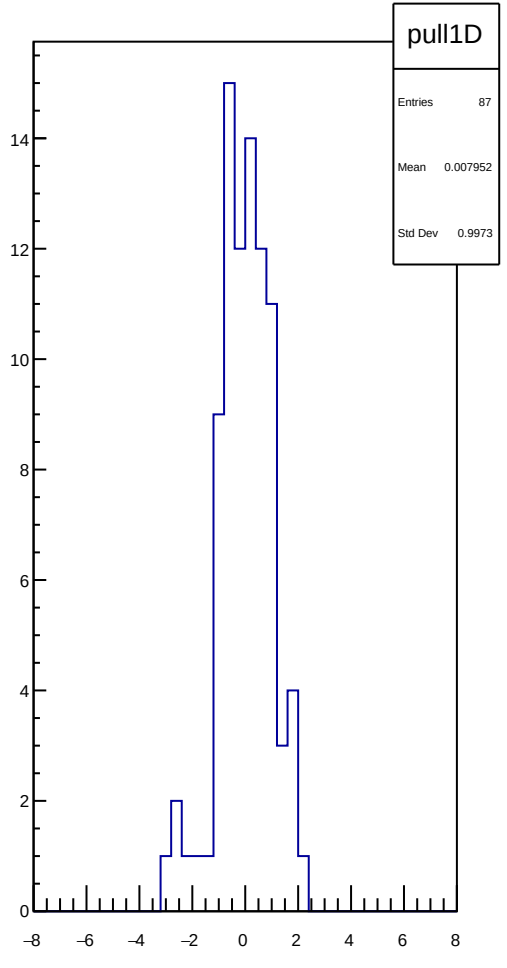

pull1D
Entries 87
Mean 0.01851
Std Dev 1.052

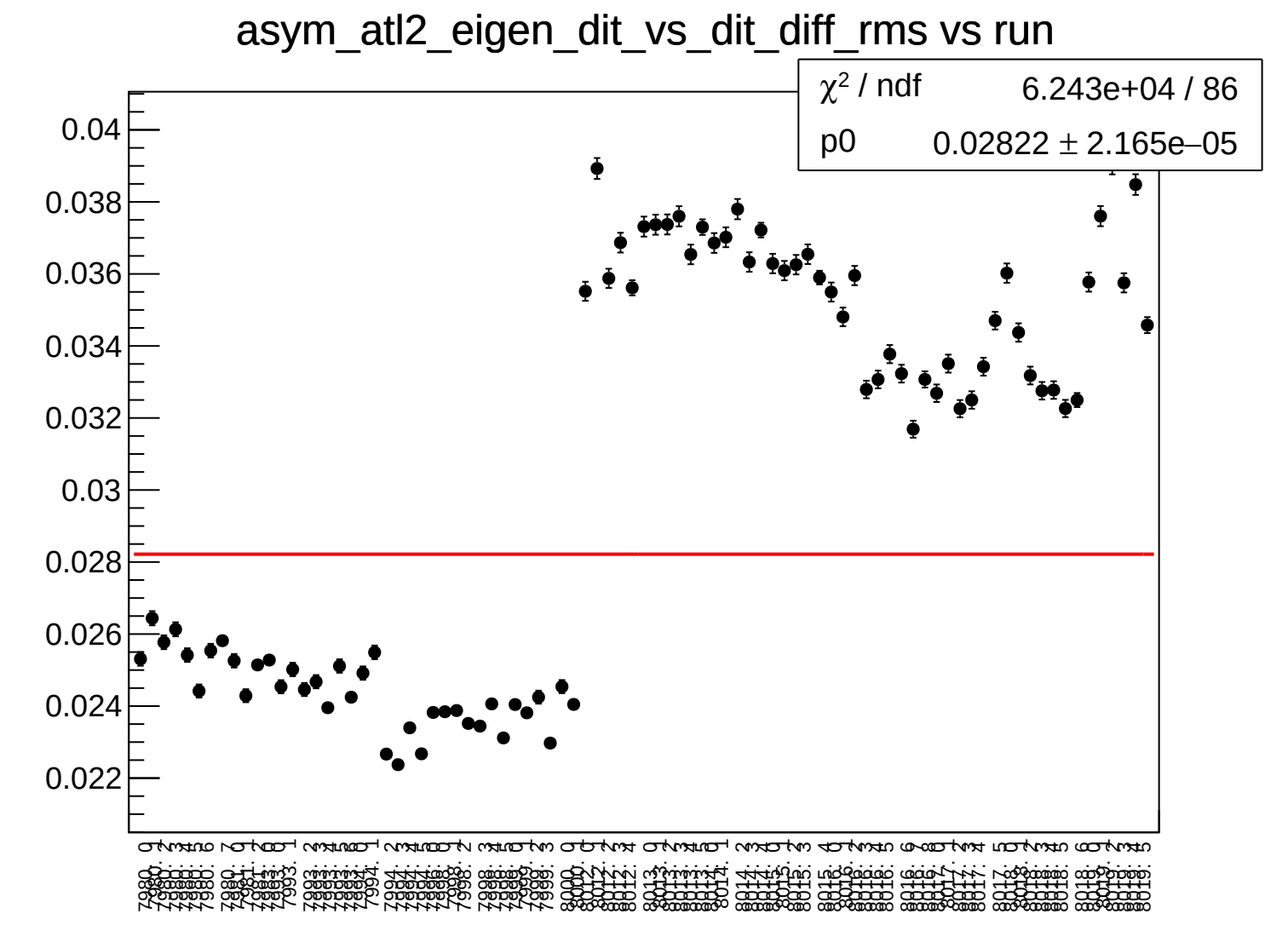

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.695e+04 / 86
p0 370.4 ± 0.2846
1200
1000
800
600
400
200

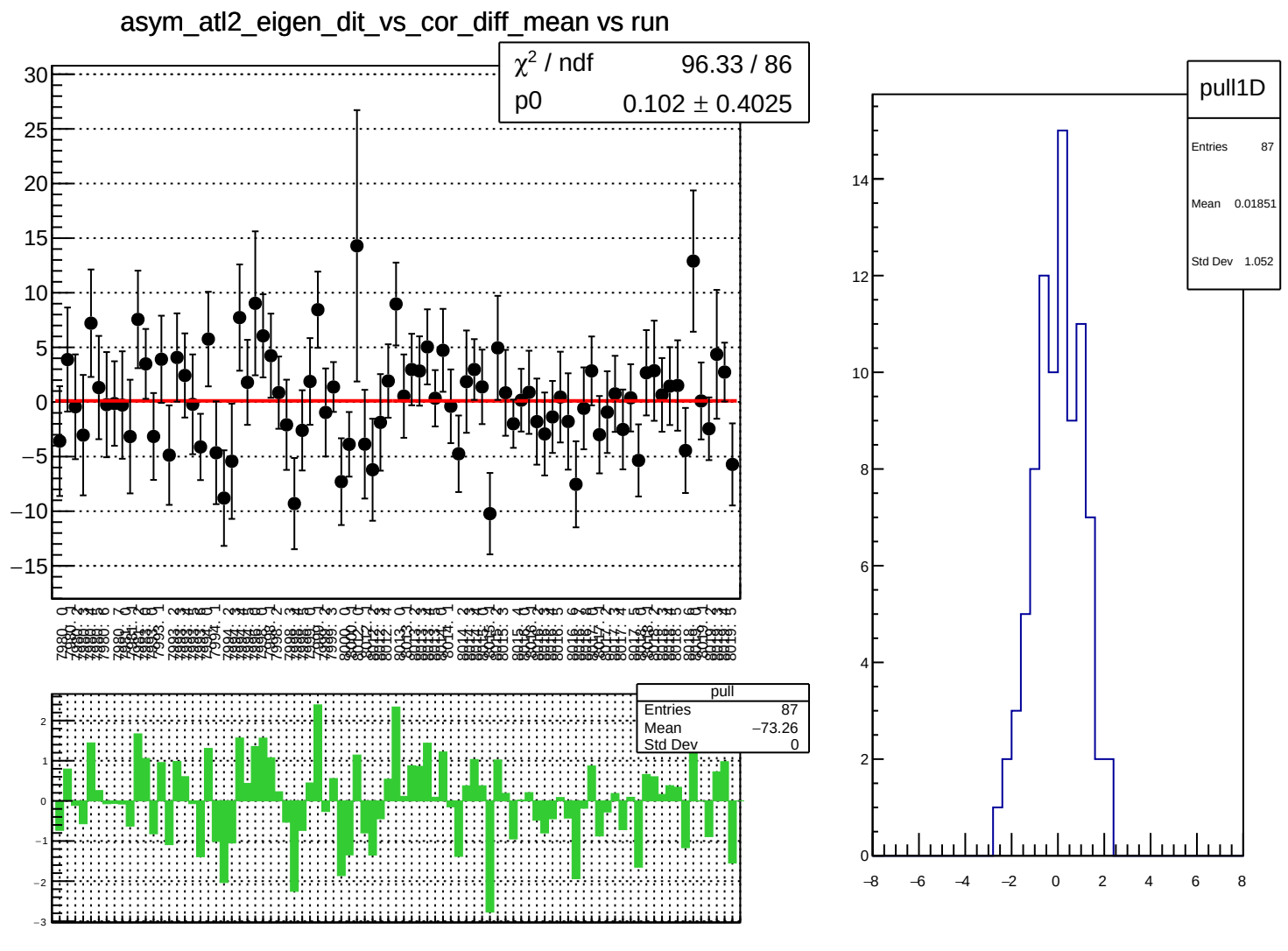

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.33 / 86
p0 0.1021 ± 0.4024
pull
Entries 87
Mean −73.26
Std Dev 0
pull1D
Entries 87
Mean 0.01851
Std Dev 1.052

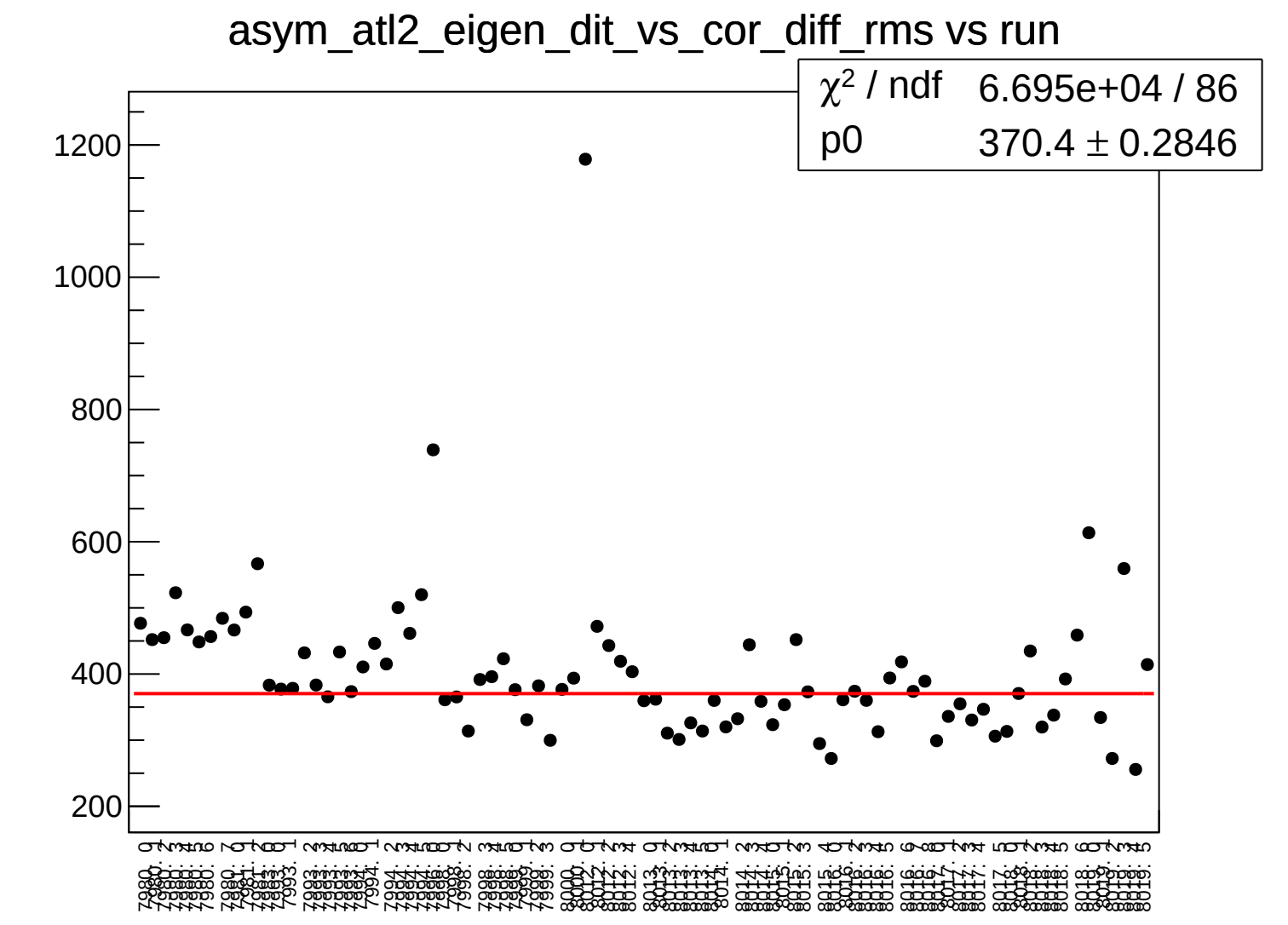

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.695e+04 / 86
p0 370.4 ± 0.2846
1200
1000
800
600
400
200

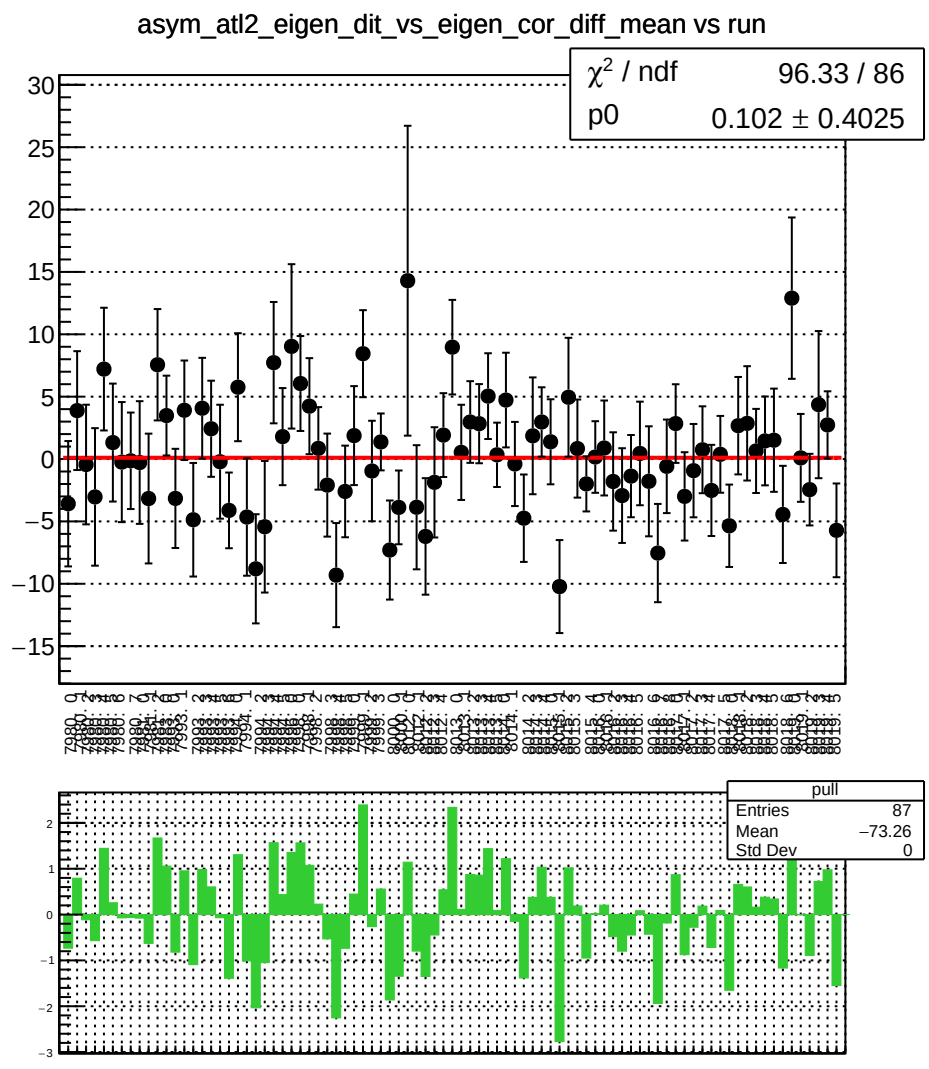

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 86.54 / 86
p0 −6.394e−05 ± 3.062e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 87
Mean −12.25
Std Dev 21.09

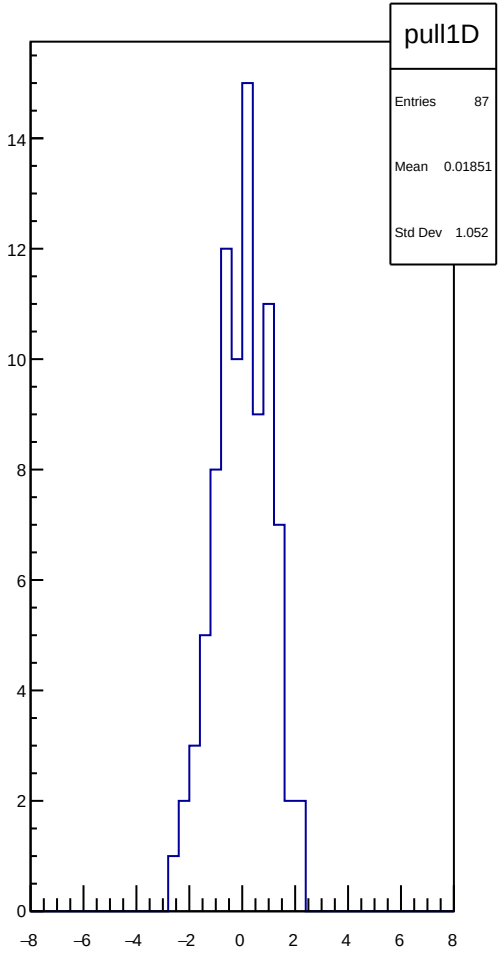

pull1D
Entries 87
Mean 0.007952
Std Dev 0.9973

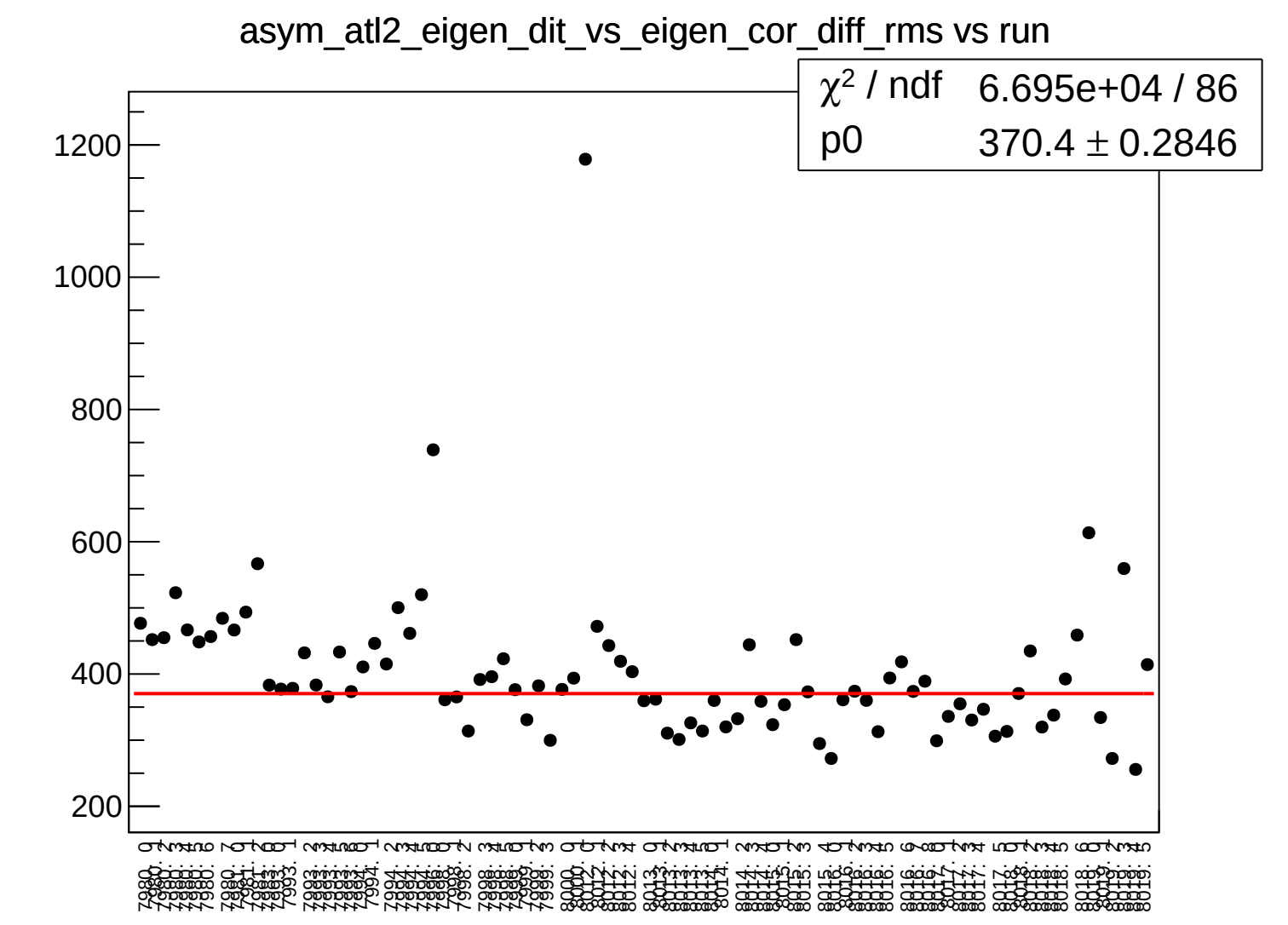

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.243e+04 / 86
p0 0.02822 ± 2.165e−05
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022

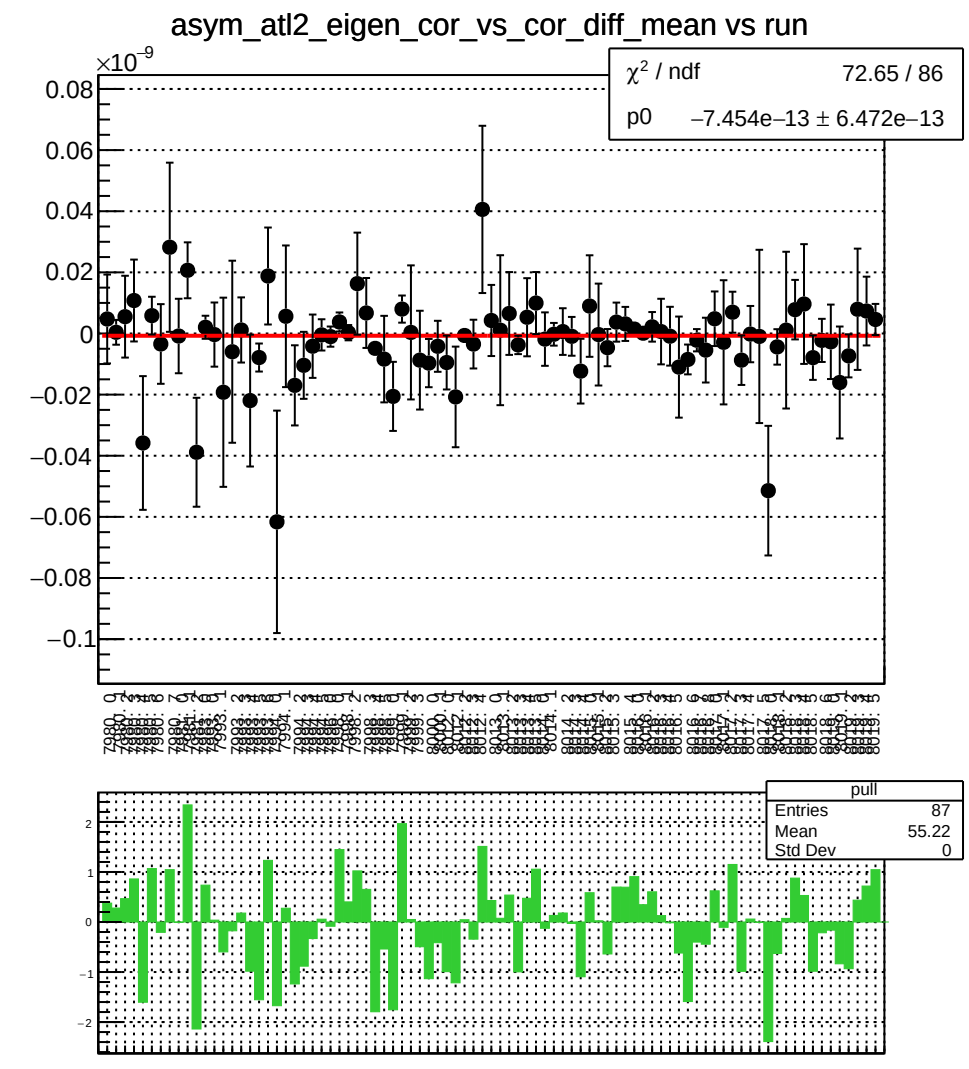

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.33 / 86
p0 0.102 ± 0.4025
pull
Entries 87
Mean −73.26
Std Dev 0
pull1D
Entries 87
Mean 0.01851
Std Dev 1.052

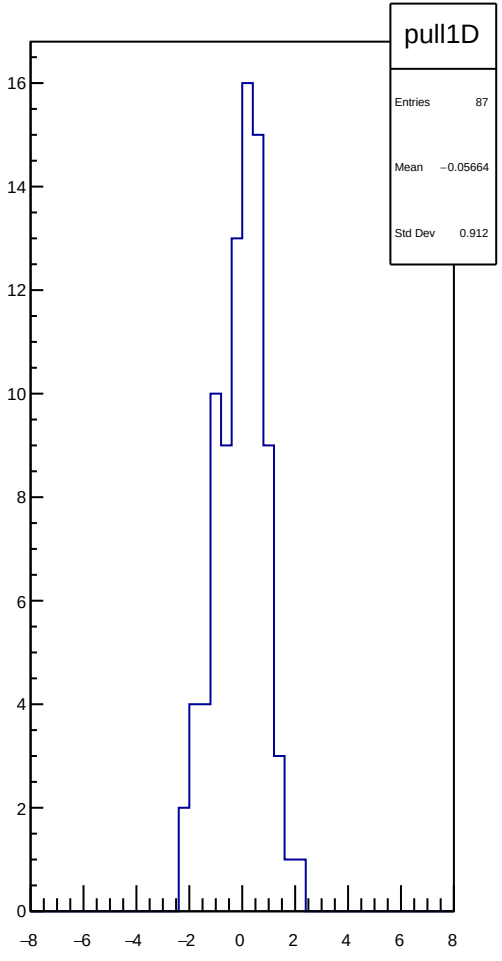

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.695e+04 / 86
p0 370.4 ± 0.2846
1200
1000
800
600
400
200

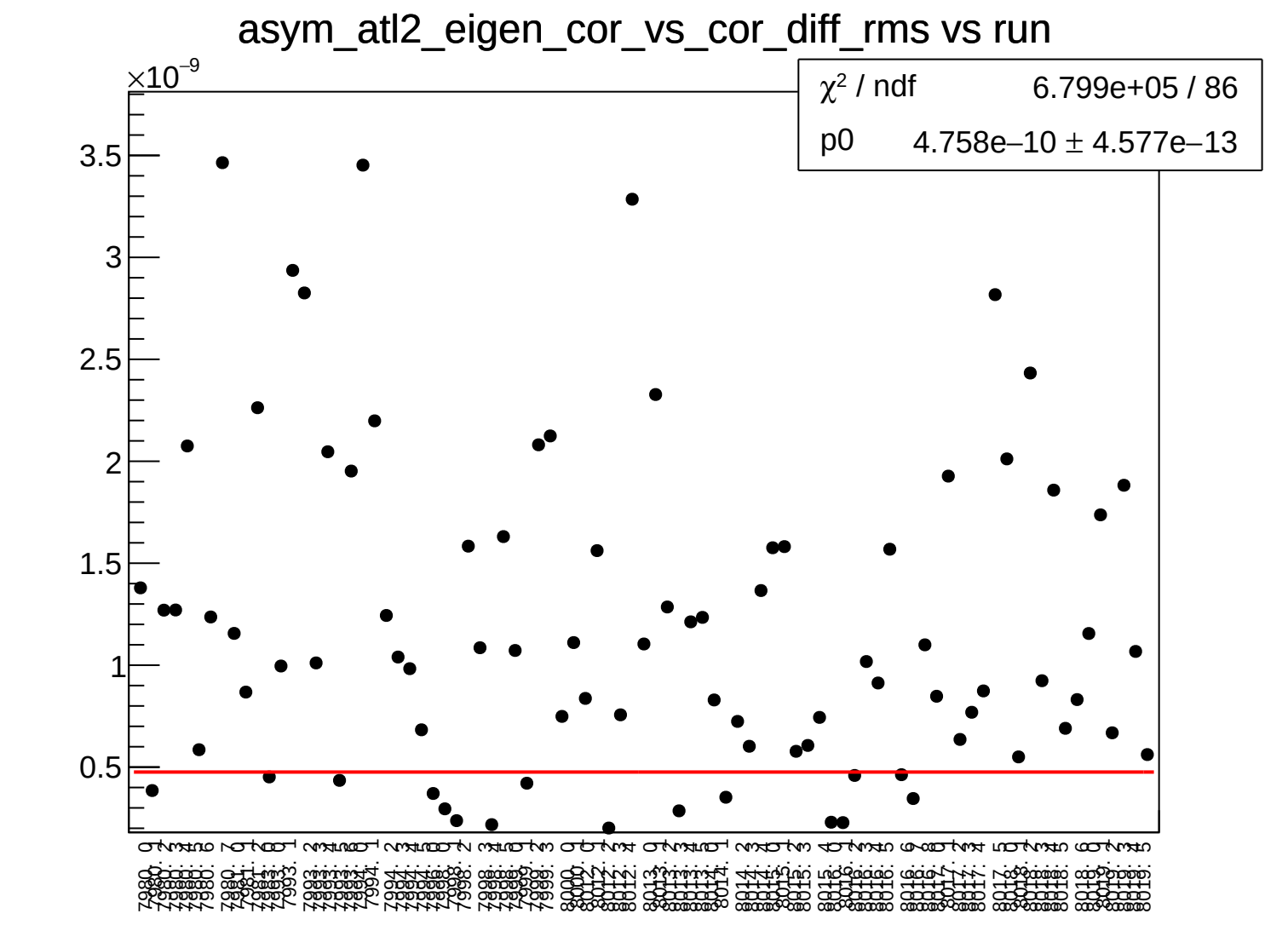

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.33 / 86
p0 0.102 ± 0.4025
pull
Entries 87
Mean −73.26
Std Dev 0

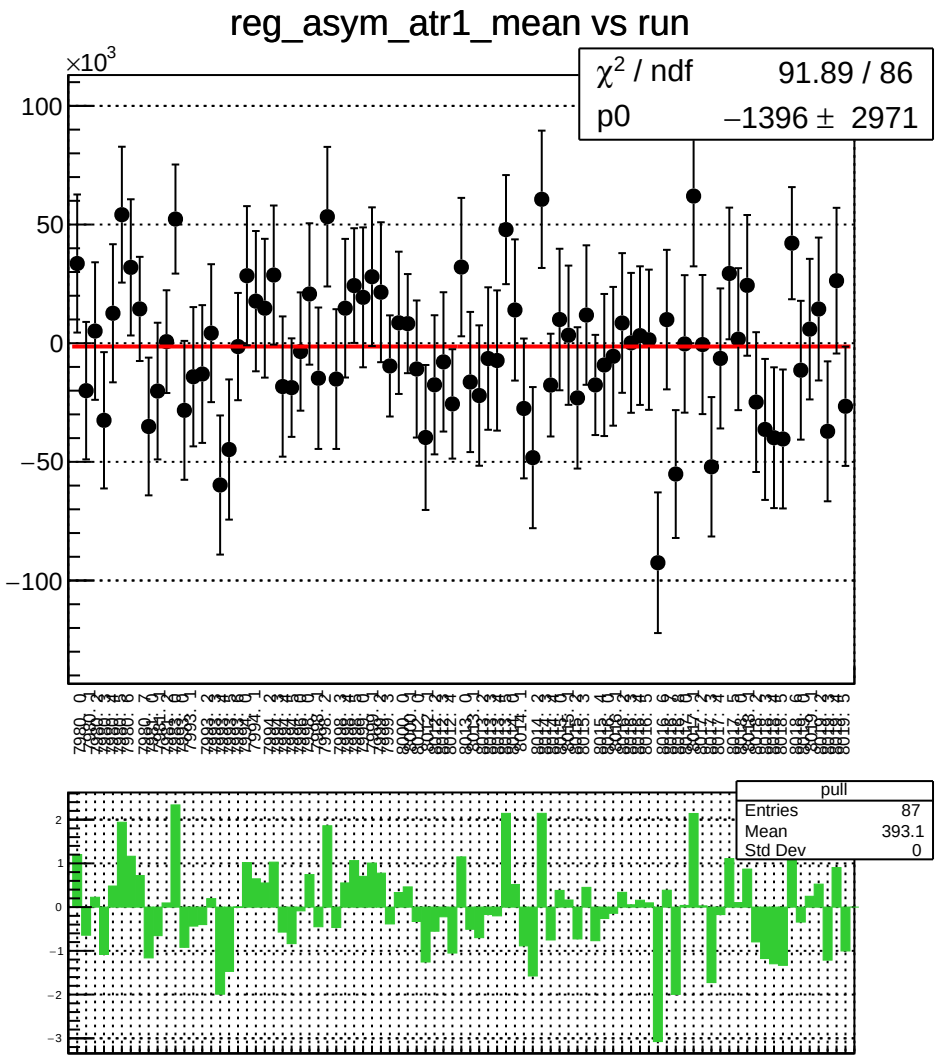

pull1D
Entries 87
Mean 0.01851
Std Dev 1.052

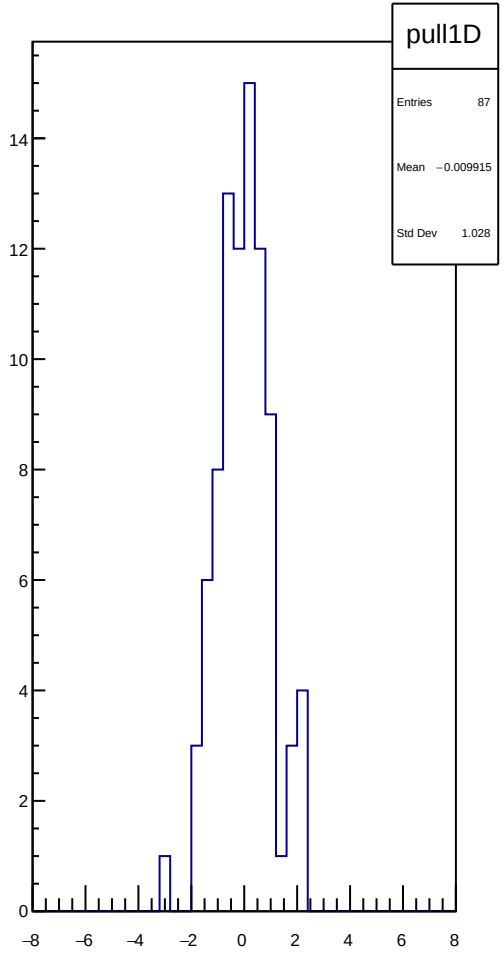

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.695e+04 / 86
p0 370.4 ± 0.2846
1200
1000
800
600
400
200

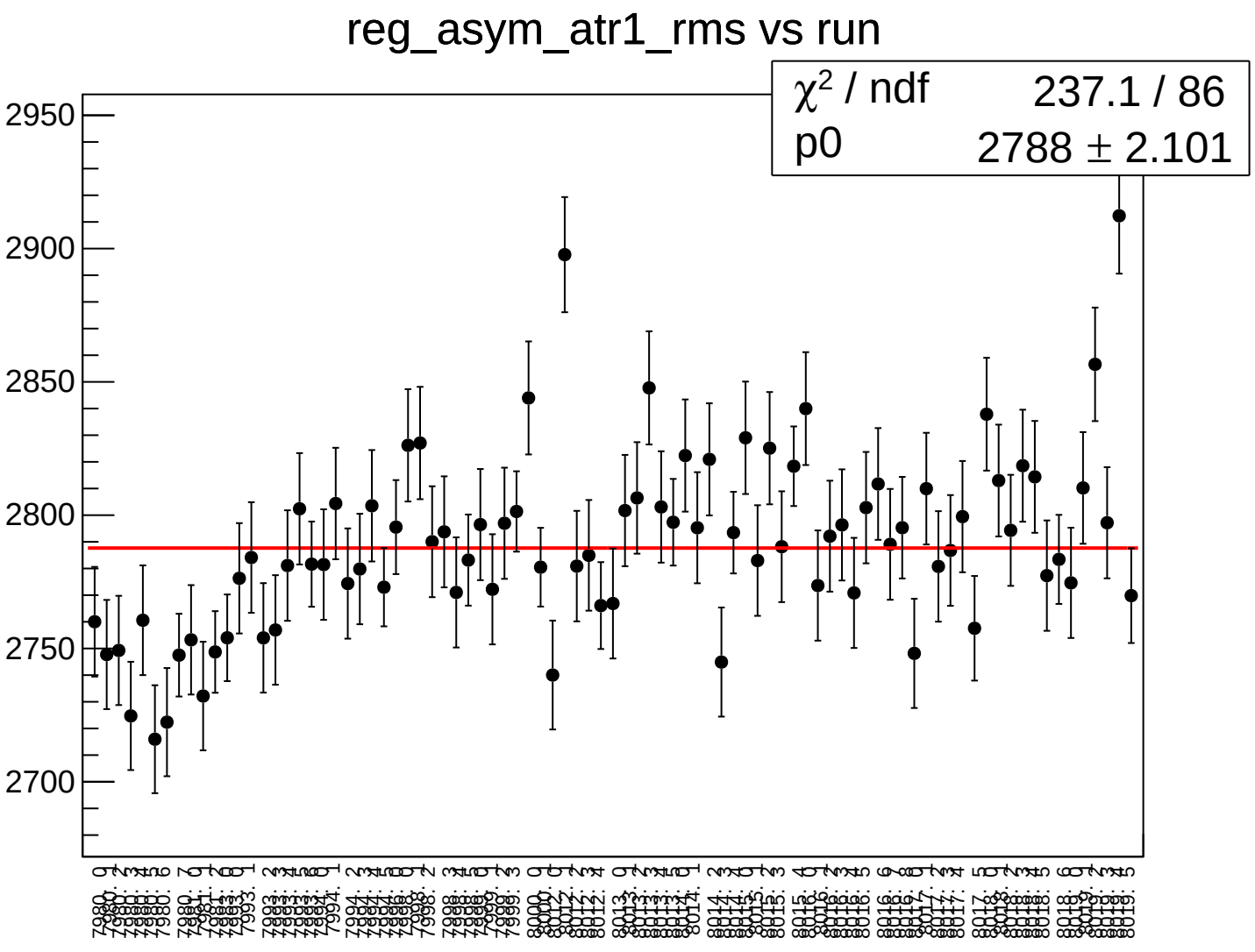

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 72.65 / 86
p0 −7.454e−13 ± 6.472e−13
pull
Entries 87
Mean 55.22
Std Dev 0

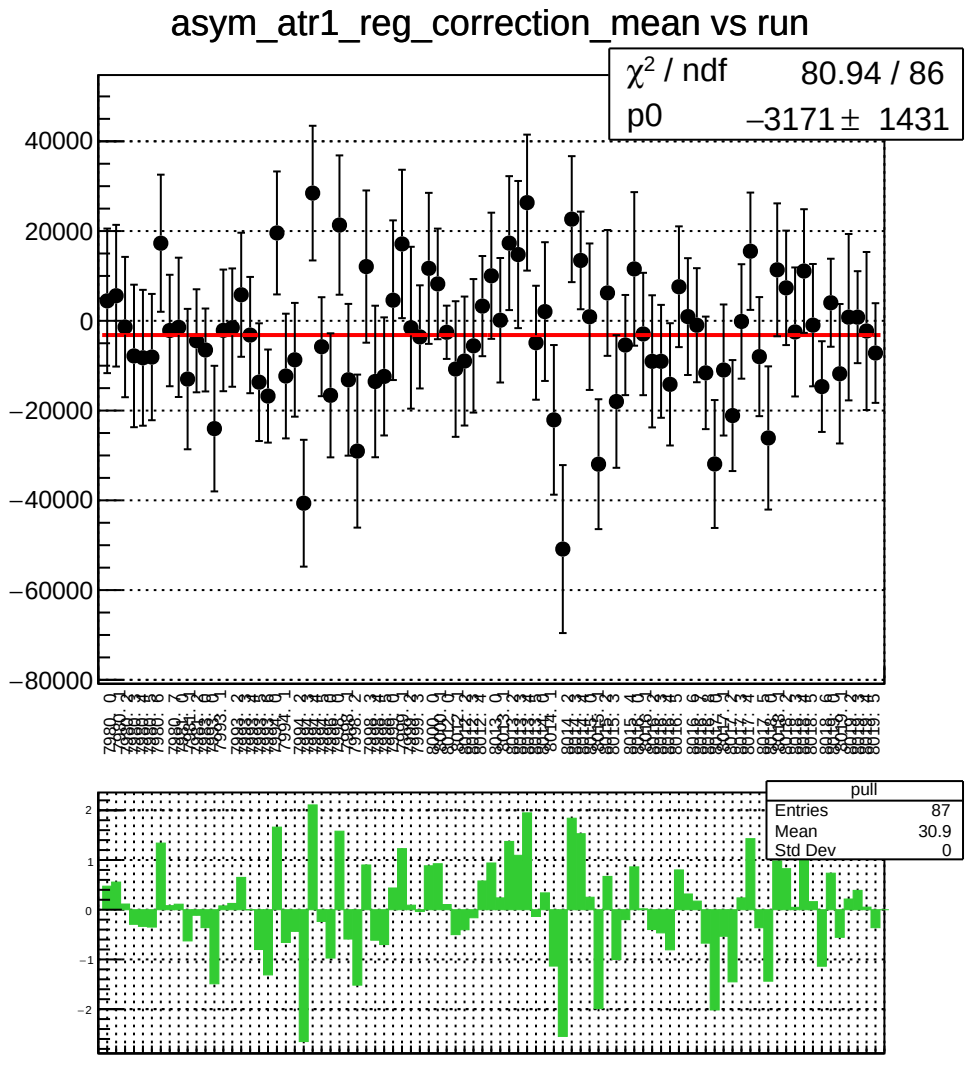

pull1D
Entries 87
Mean −0.05664
Std Dev 0.912

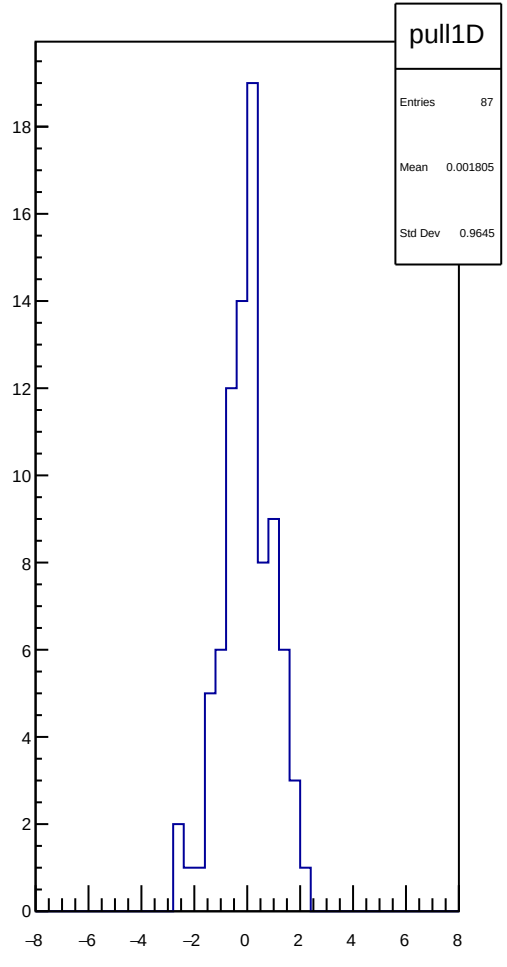

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.799e+05 / 86
p0 4.758e−10 ± 4.577e−13
3.5
3
2.5
2
1.5
1
0.5

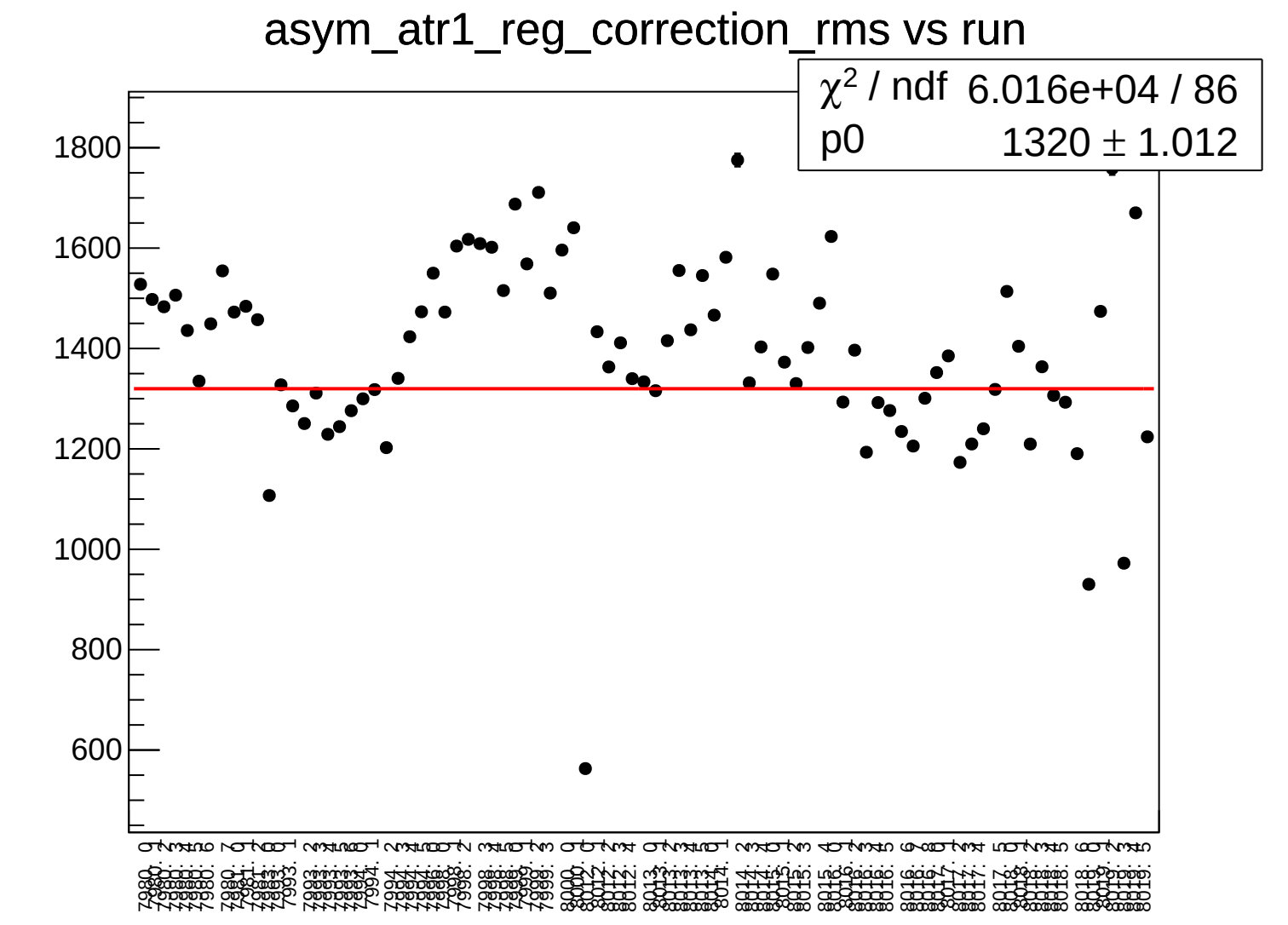

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 91.89 / 86
p0 −1396 ± 2971
100
50
0
−50
−100
pull
Entries 87
Mean 393.1
Std Dev 0
2
1
0
−1
−2
−3

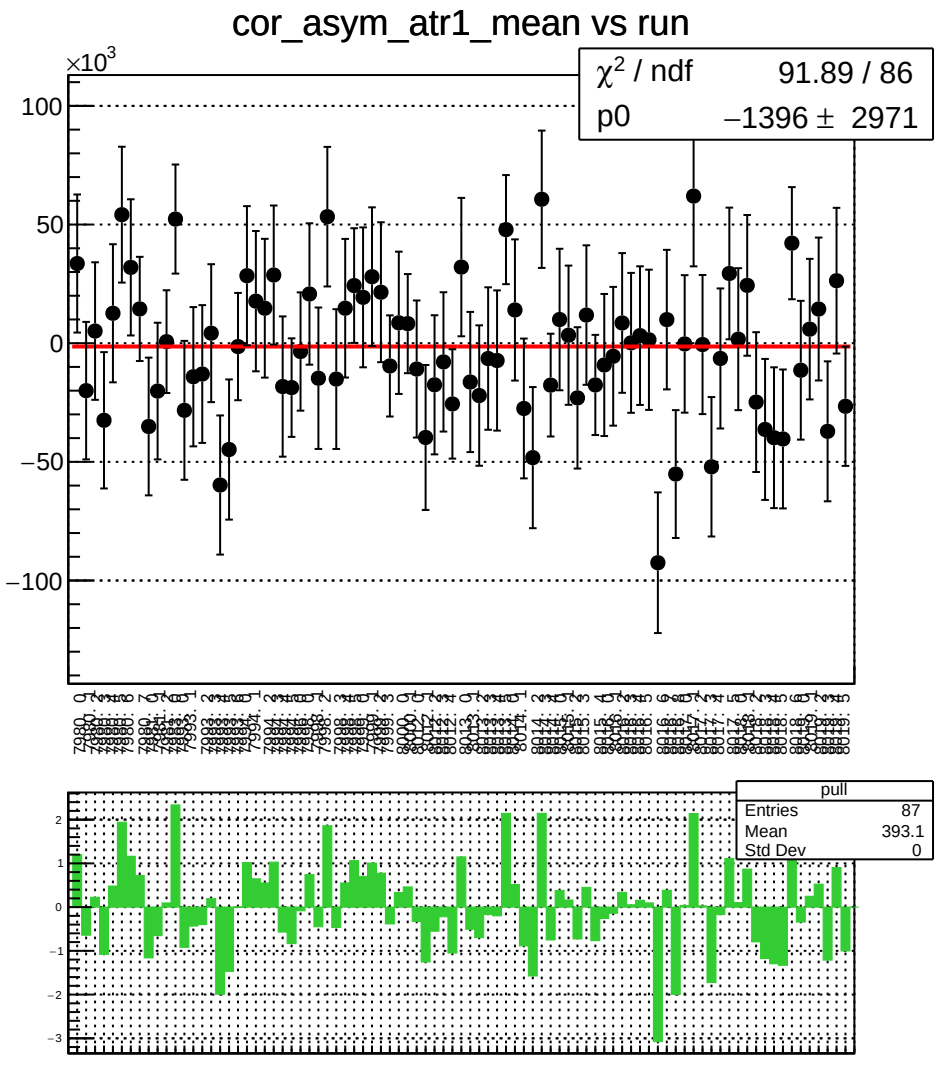

pull1D
Entries 87
Mean −0.009915
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

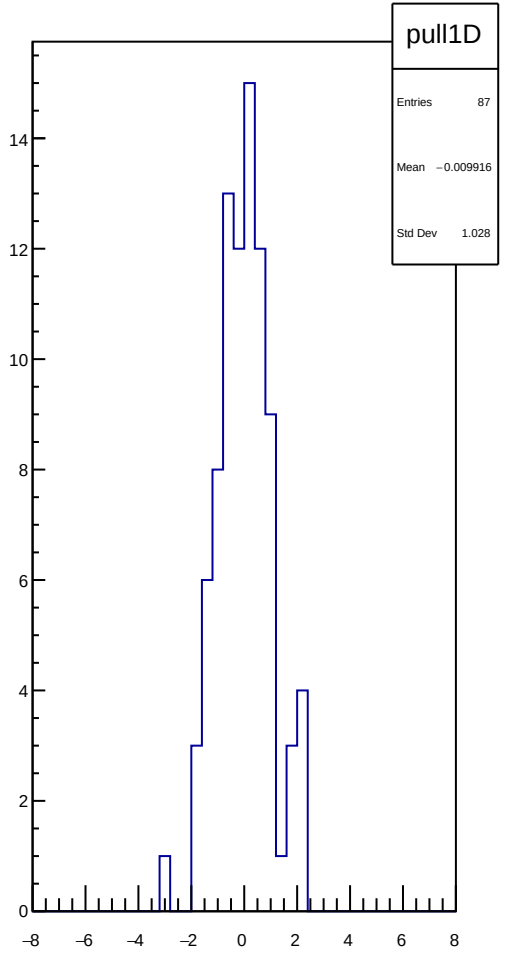

reg_asym_atr1_rms vs run
χ^2 / ndf 237.1 / 86
p0 2788 ± 2.101
2950
2900
2850
2800
2750
2700

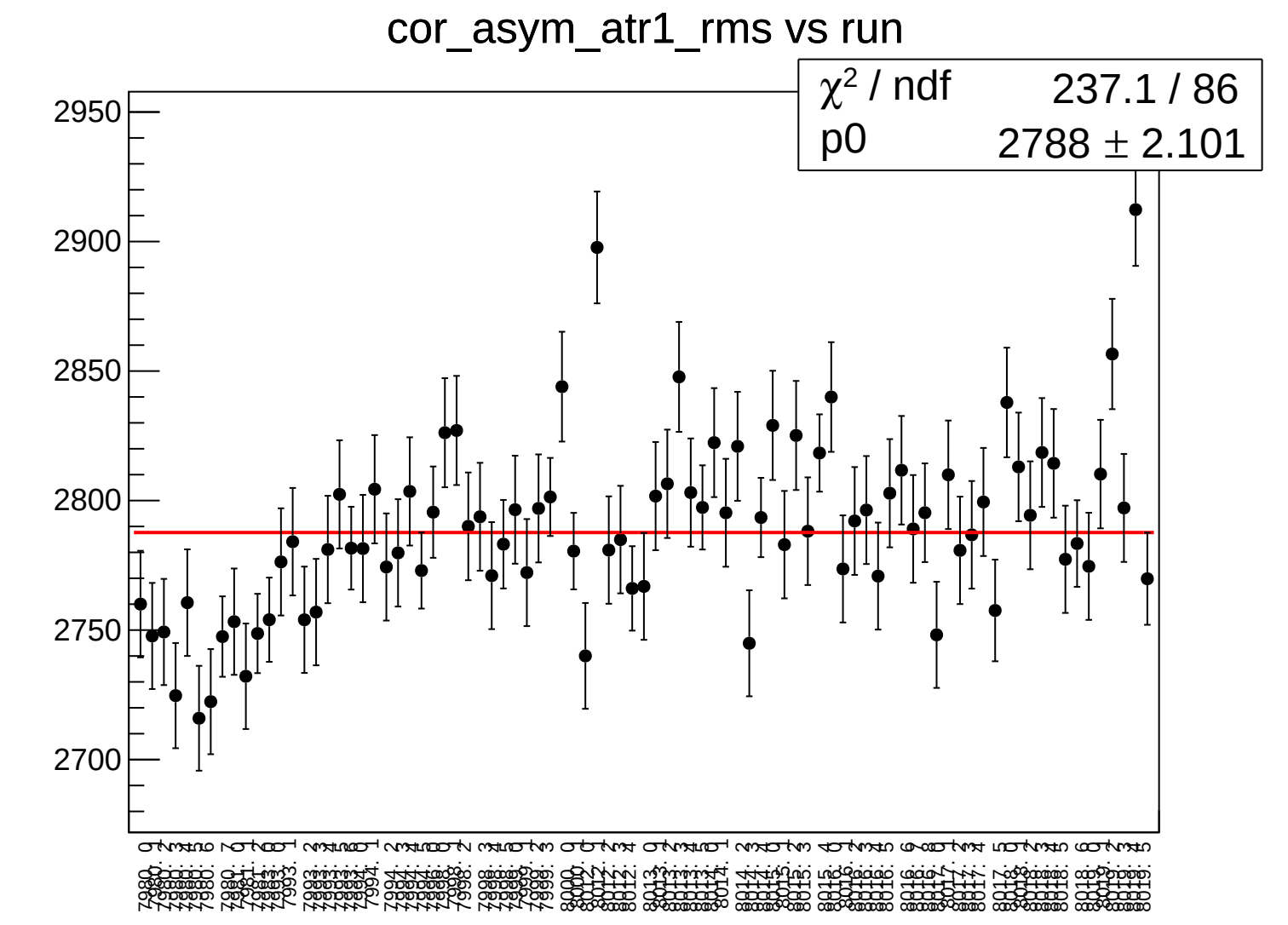

asym_atr1_reg_correction_mean vs run
χ² / ndf 80.94 / 86
p0 −3171 ± 1431
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 30.9
Std Dev 0
2
1
0
−1
−2

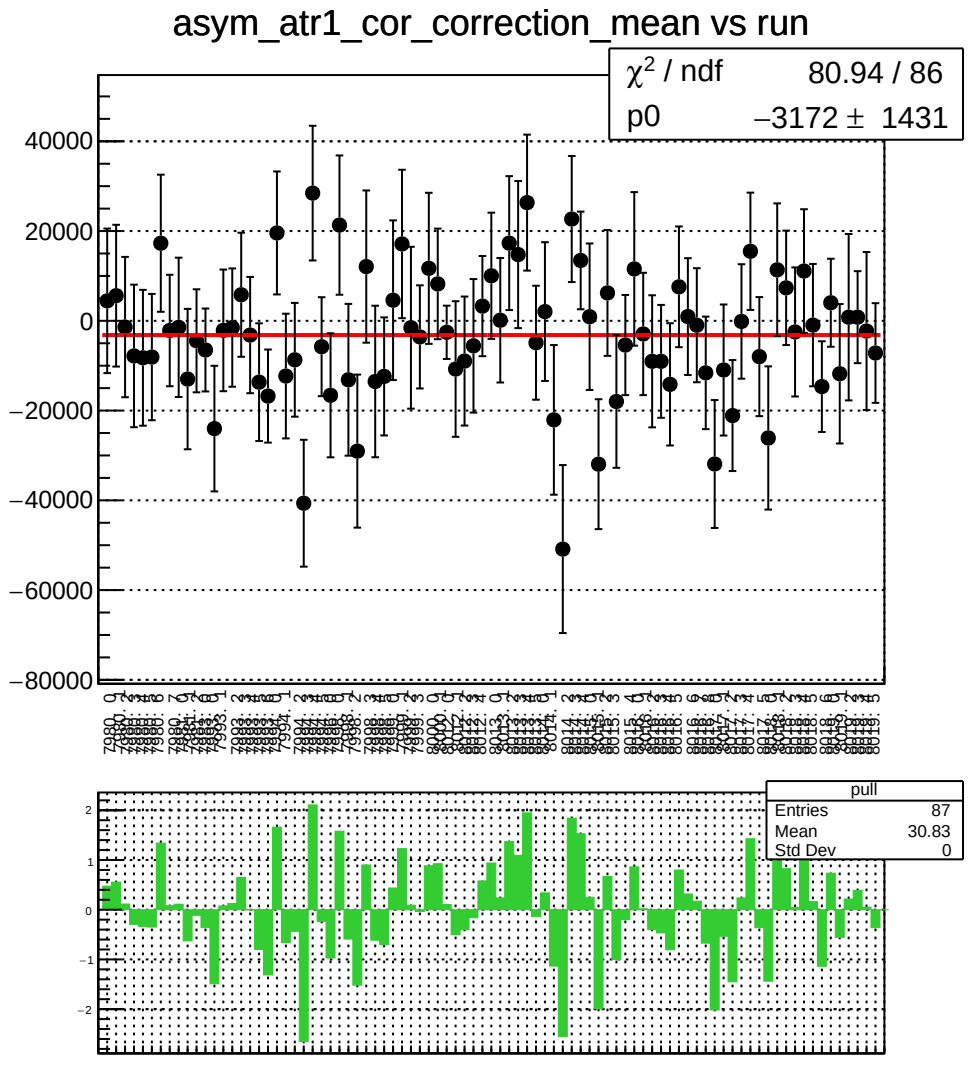

pull1D
Entries 87
Mean 0.001805
Std Dev 0.9645
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

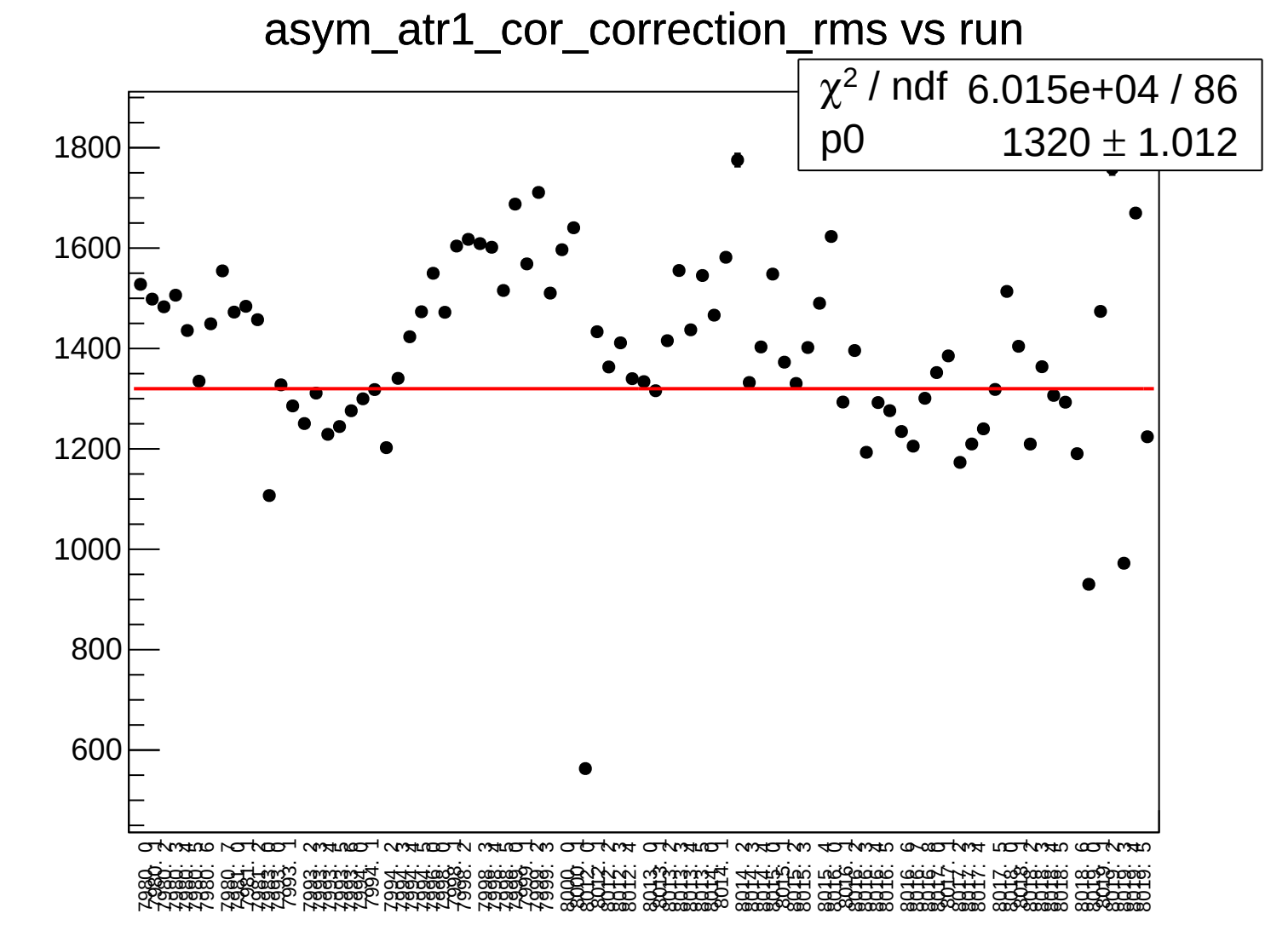

asym_atr1_reg_correction_rms vs run
χ² / ndf 6.016e+04 / 86
p0 1320 ± 1.012
1800
1600
1400
1200
1000
800
600

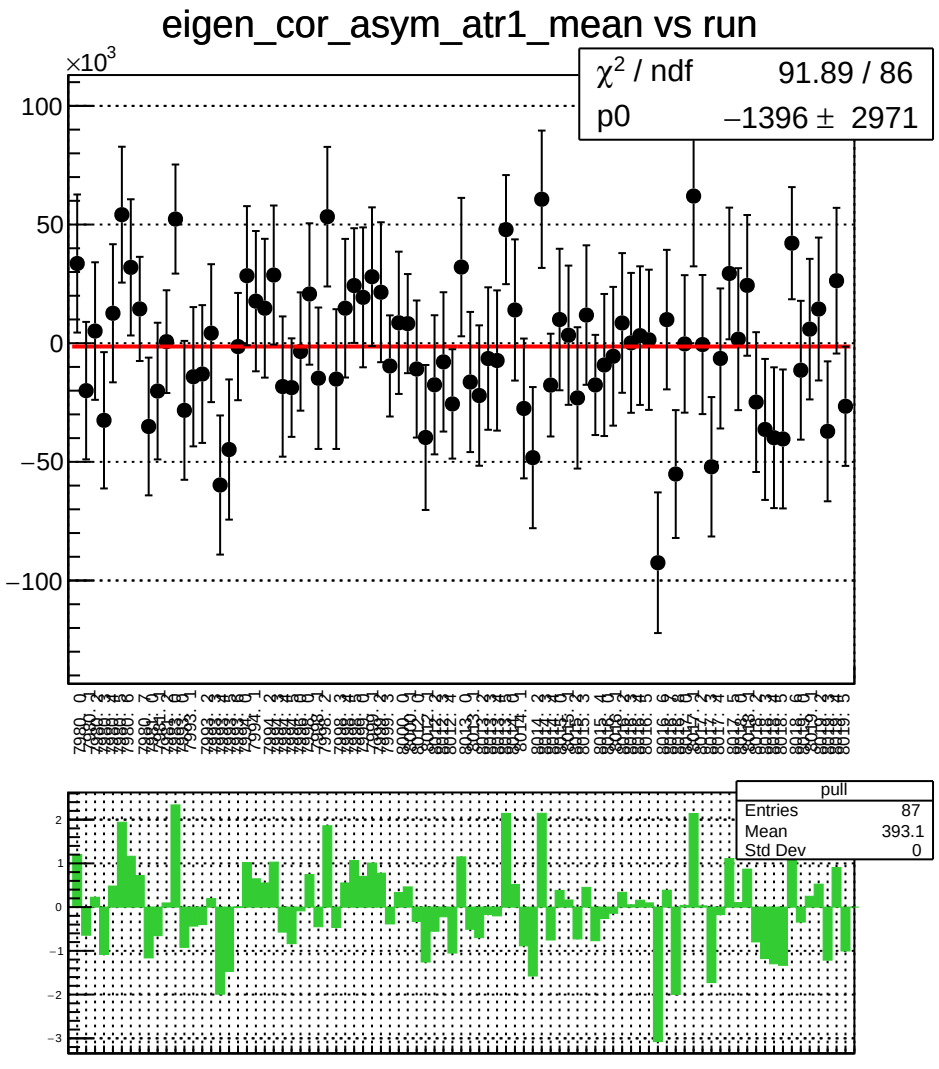

cor_asym_atr1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 91.89 / 86
p0 −1396 ± 2971
pull
Entries 87
Mean 393.1
Std Dev 0
2
1
0
−1
−2
−3

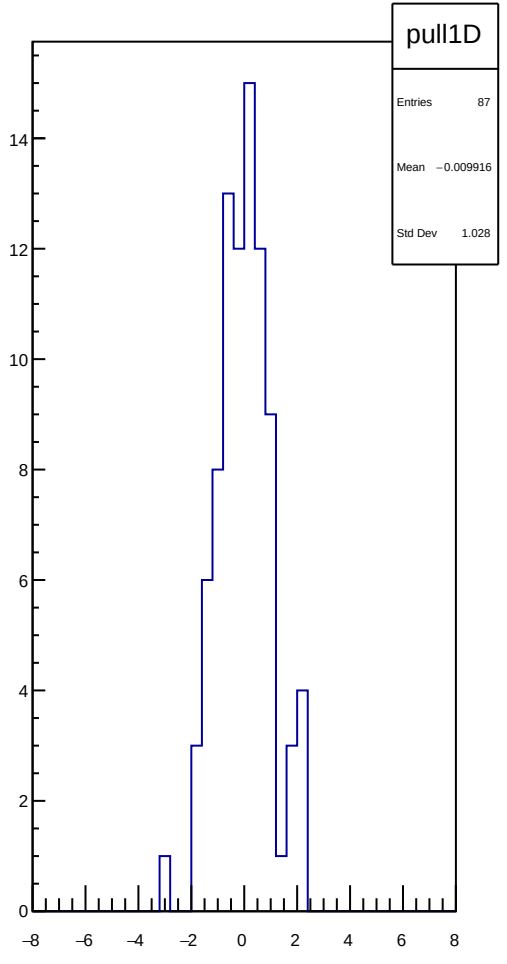

pull1D
Entries 87
Mean −0.009916
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

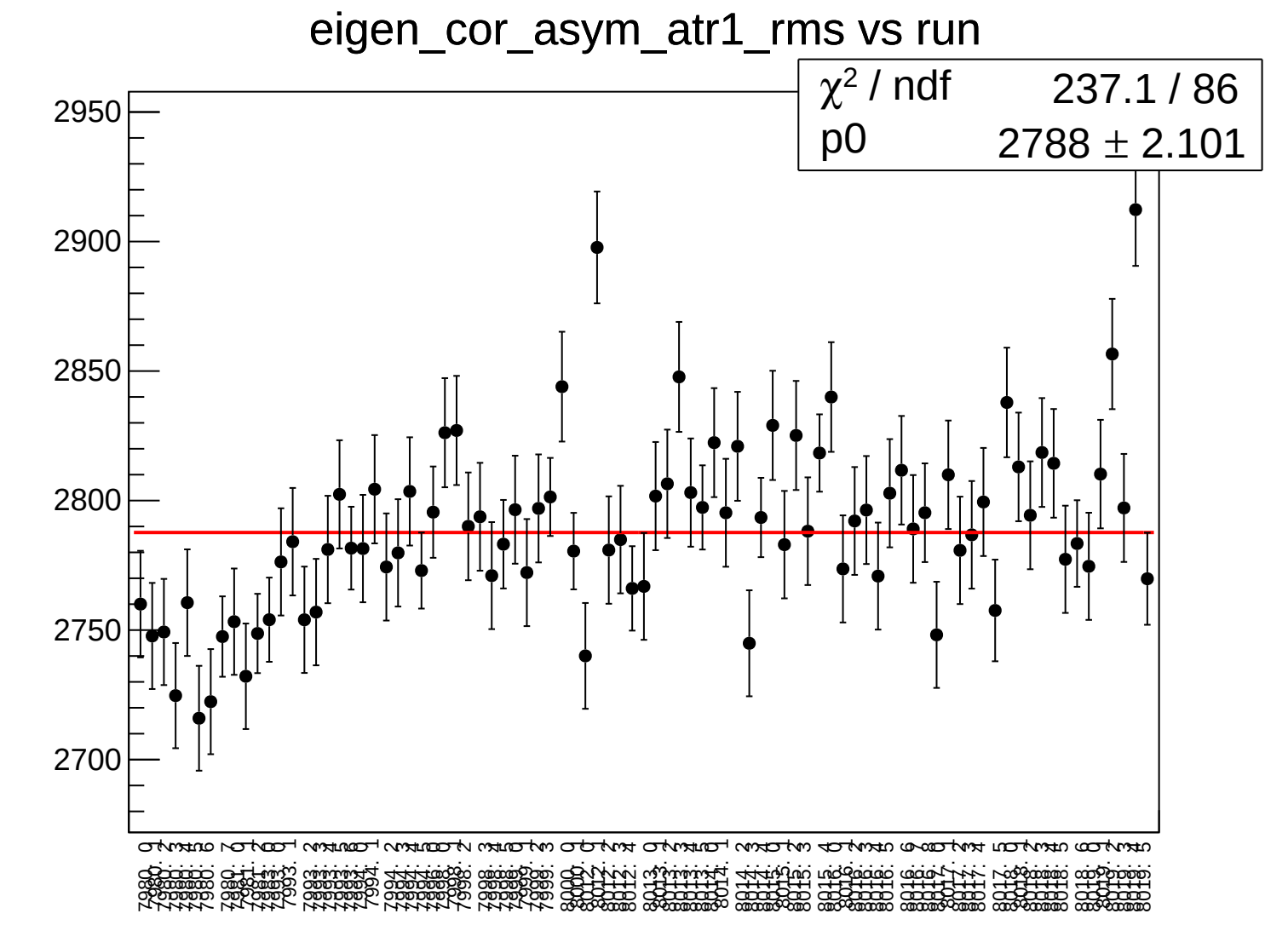

cor_asym_atr1_rms vs run
χ² / ndf 237.1 / 86
p0 2788 ± 2.101
2950
2900
2850
2800
2750
2700

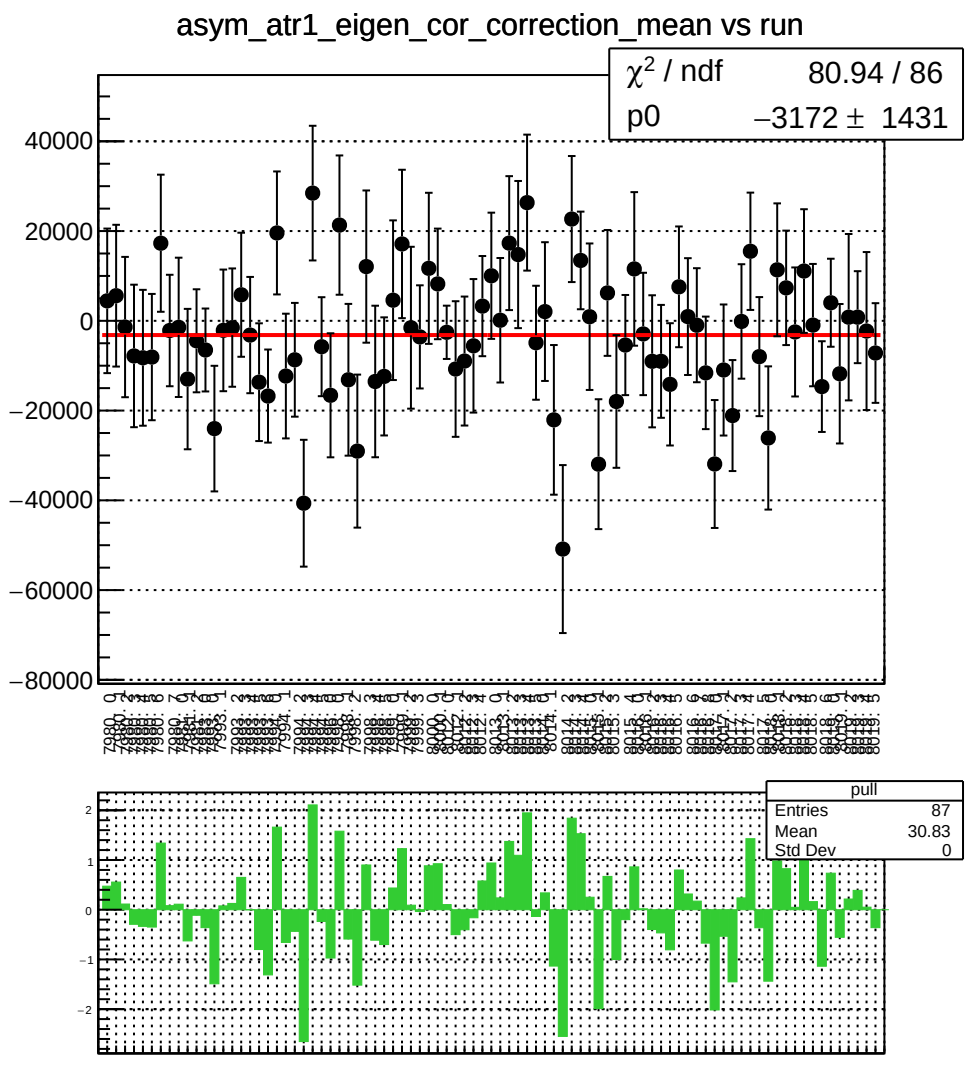

asym_atr1_cor_correction_mean vs run
χ² / ndf 80.94 / 86
p0 −3172 ± 1431
pull
Entries 87
Mean 30.83
Std Dev 0
pull1D
Entries 87
Mean 0.001833
Std Dev 0.9645

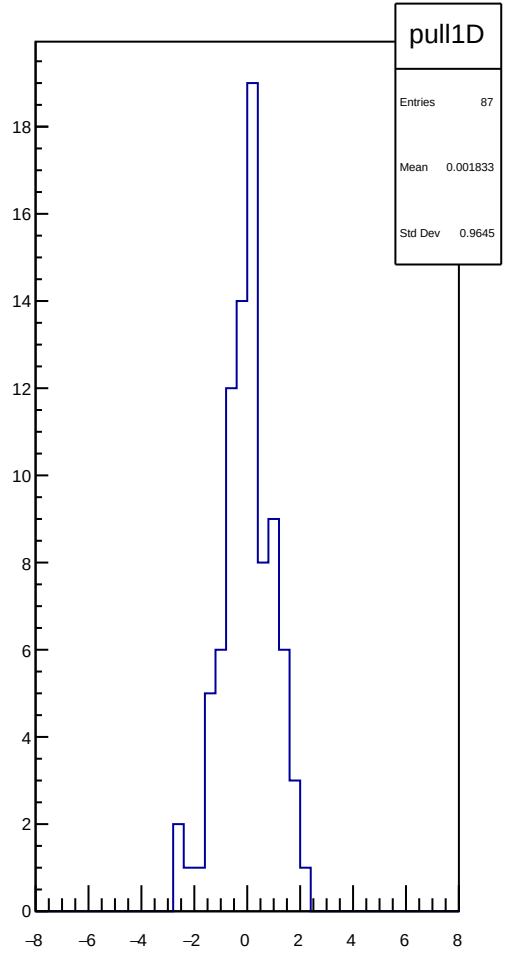

asym_atr1_cor_correction_rms vs run
χ² / ndf 6.015e+04 / 86
p0 1320 ± 1.012
1800
1600
1400
1200
1000
800
600

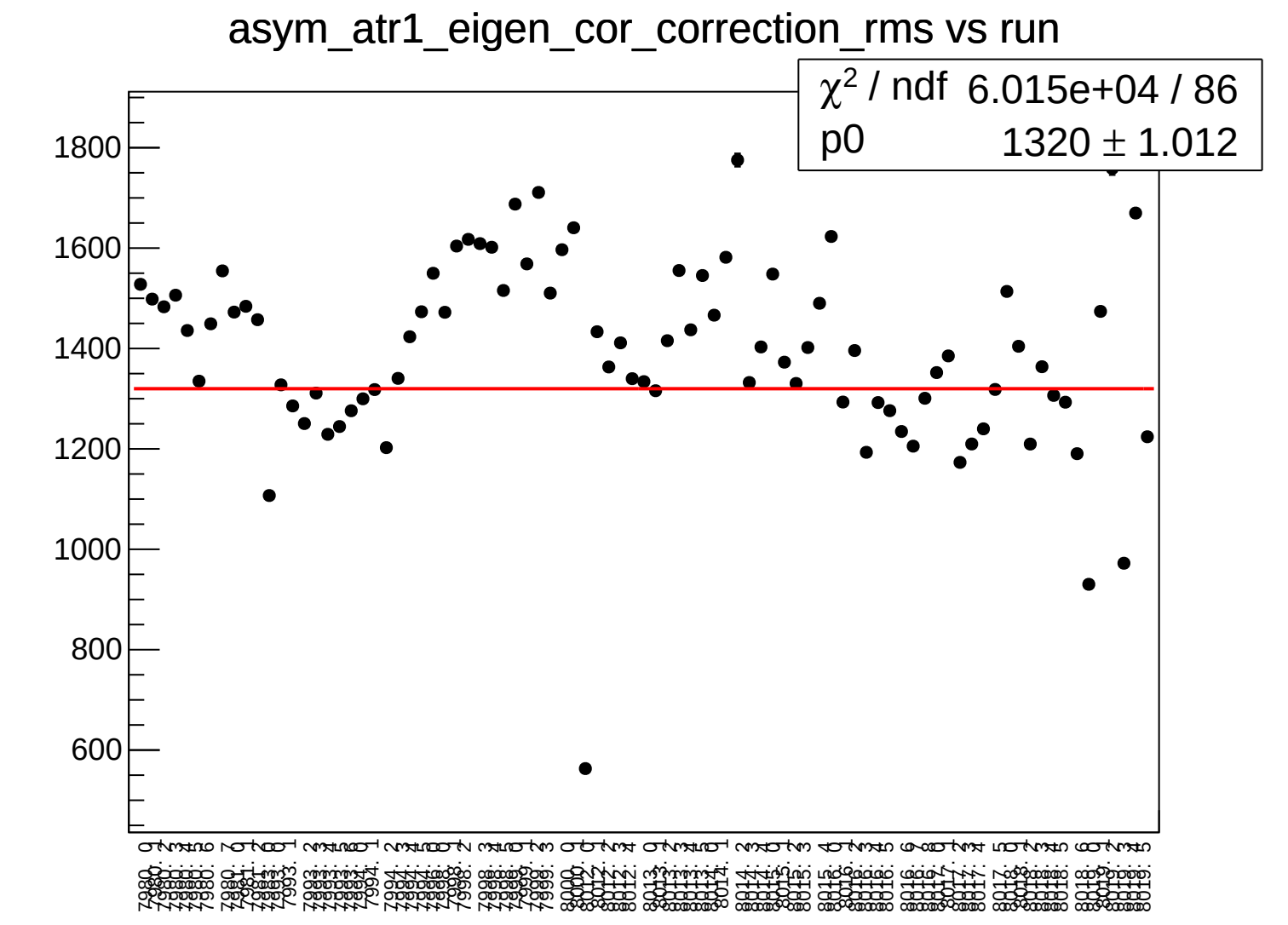

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 91.89 / 86
p0 −1396 ± 2971
100
50
0
−50
−100
pull
Entries 87
Mean 393.1
Std Dev 0
2
1
0
−1
−2
−3

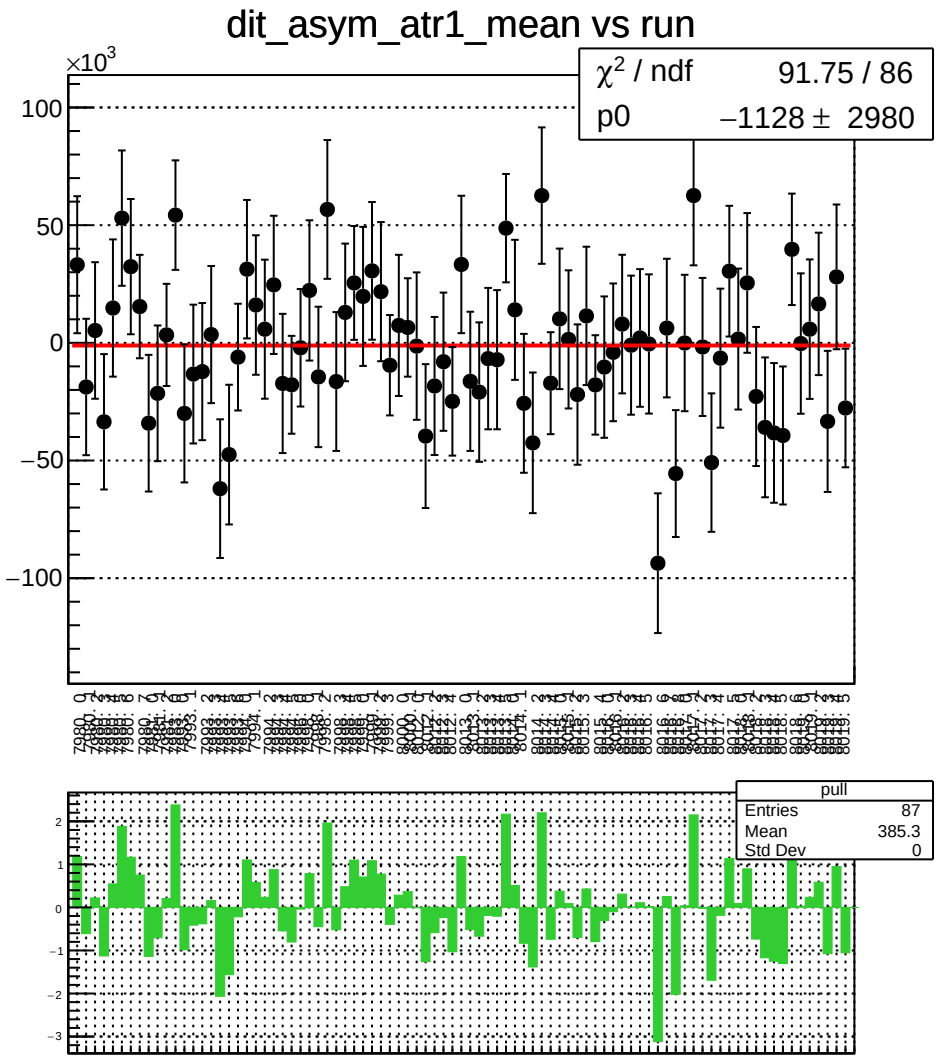

pull1D
Entries 87
Mean −0.009916
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

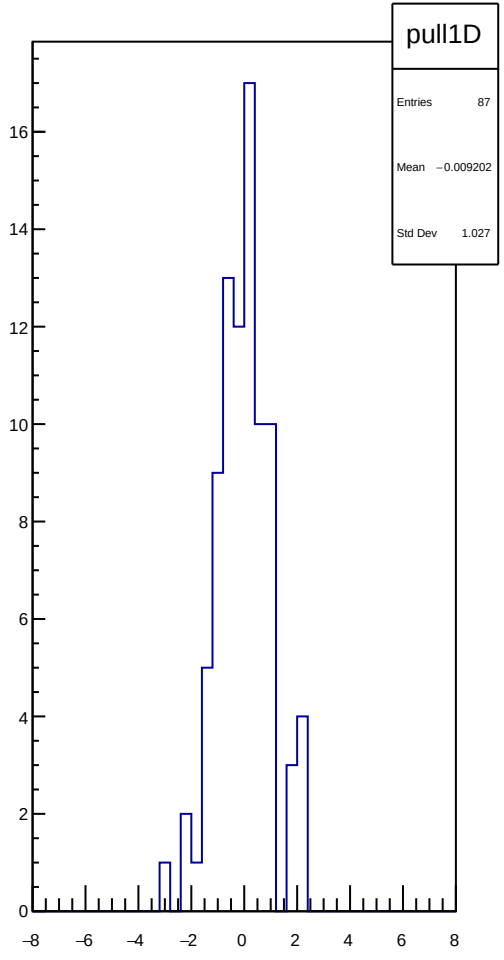

eigen_cor_asym_atr1_rms vs run
χ² / ndf 237.1 / 86
p0 2788 ± 2.101
2950
2900
2850
2800
2750
2700

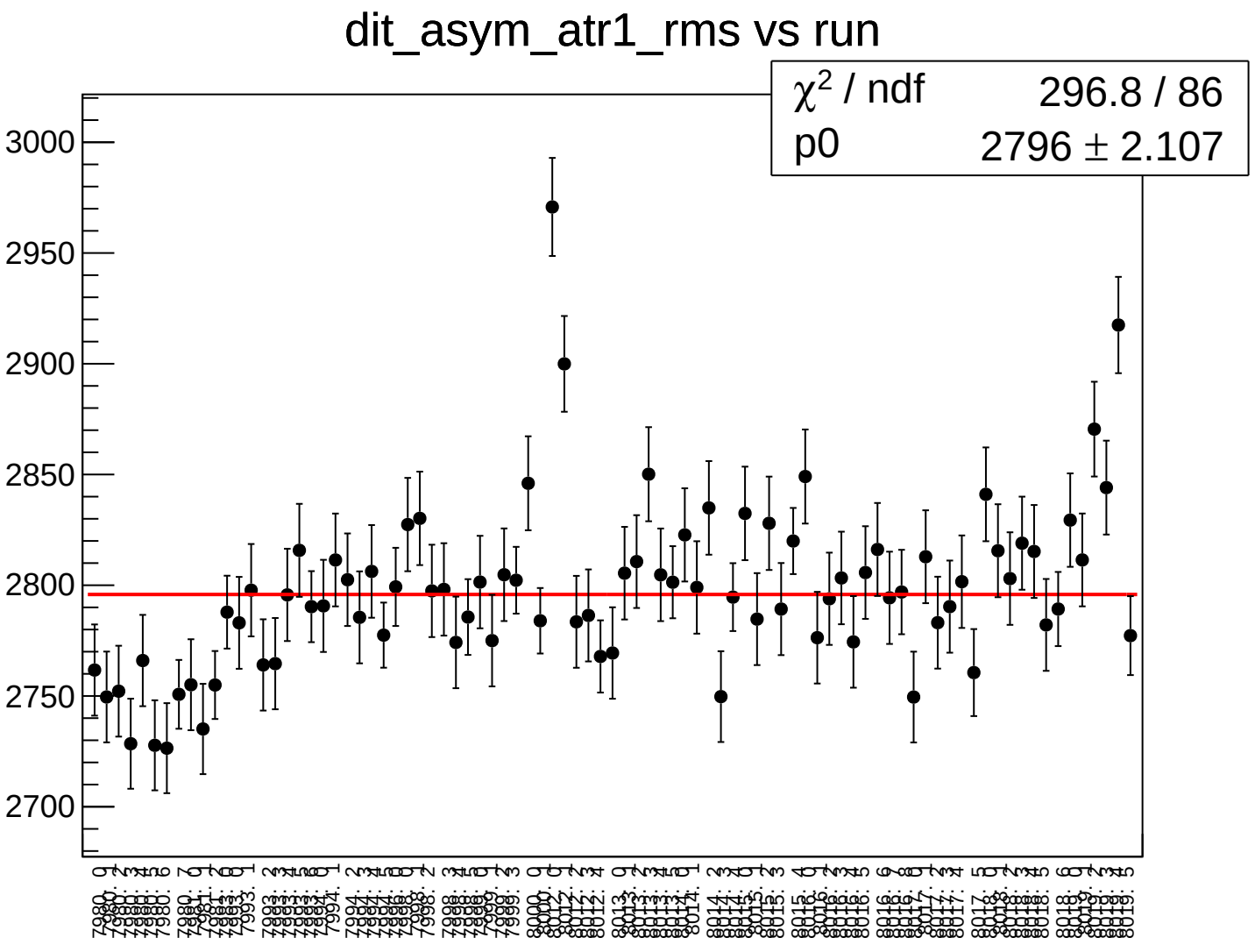

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 80.94 / 86
p0 −3172 ± 1431
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 30.83
Std Dev 0
2
1
0
−1
−2

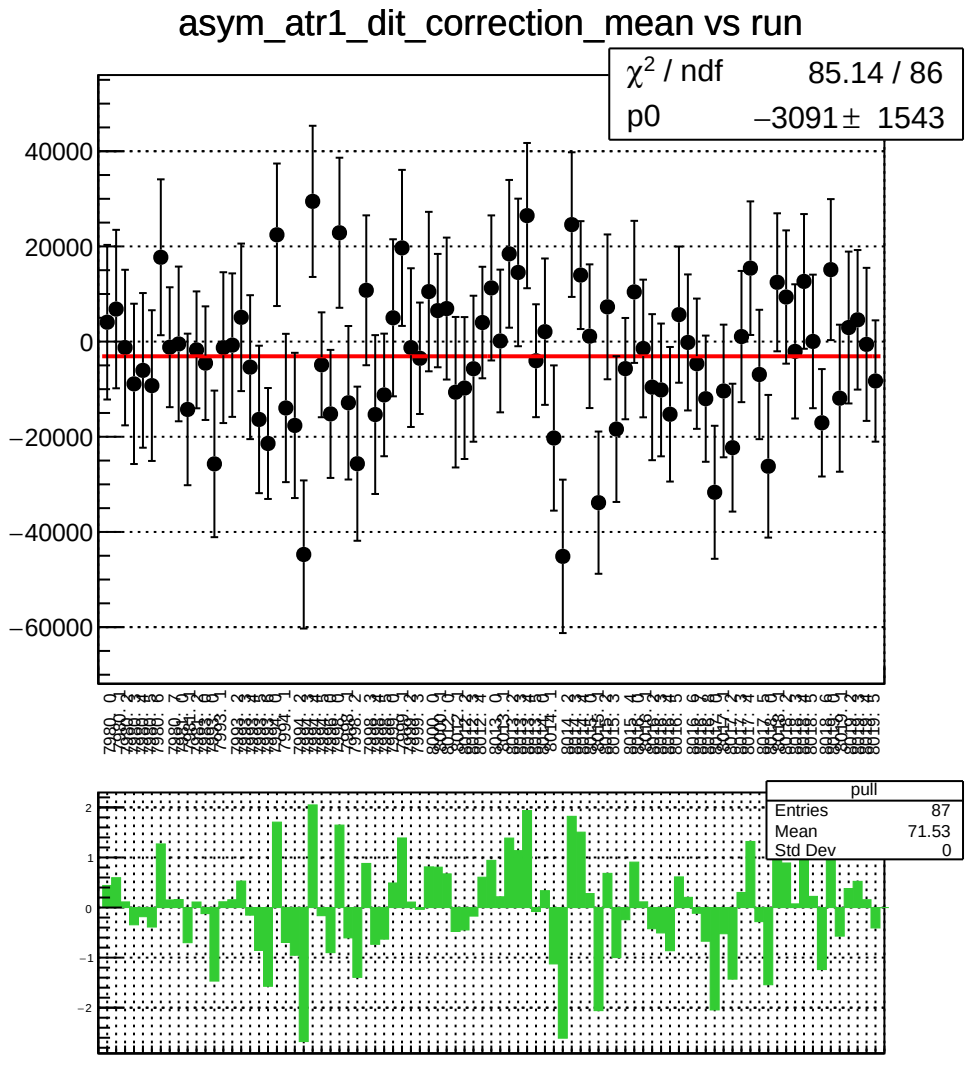

pull1D
Entries 87
Mean 0.001833
Std Dev 0.9645
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

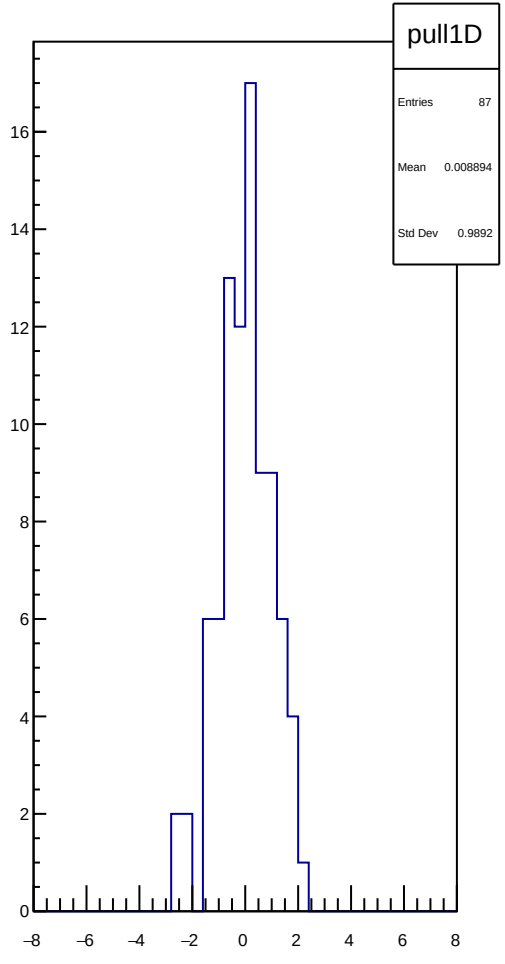

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 6.015e+04 / 86
p0 1320 ± 1.012
1800
1600
1400
1200
1000
800
600

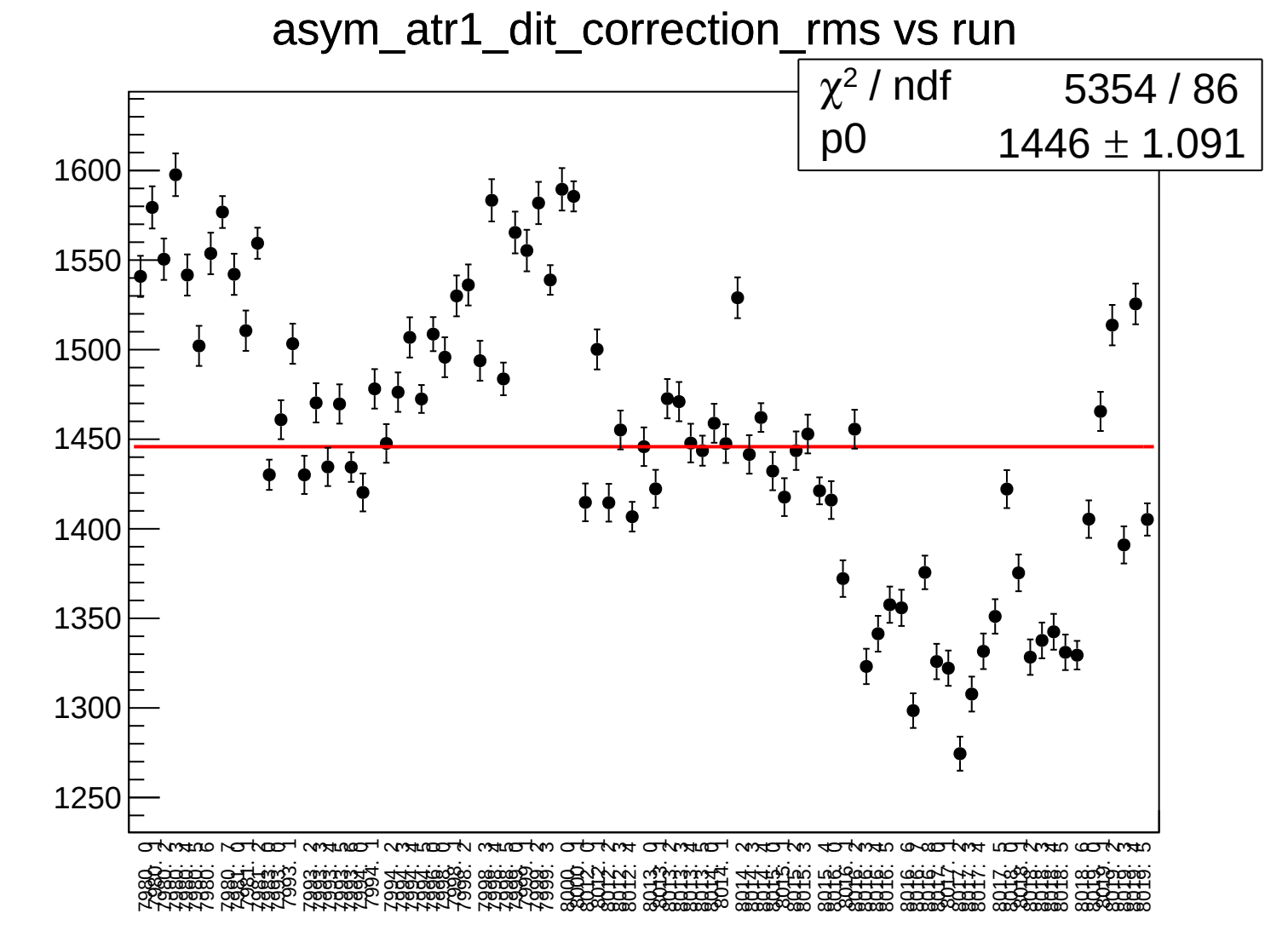

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 91.75 / 86
p0 −1128 ± 2980
100
50
0
−50
−100
pull
Entries 87
Mean 385.3
Std Dev 0
2
1
0
−1
−2
−3

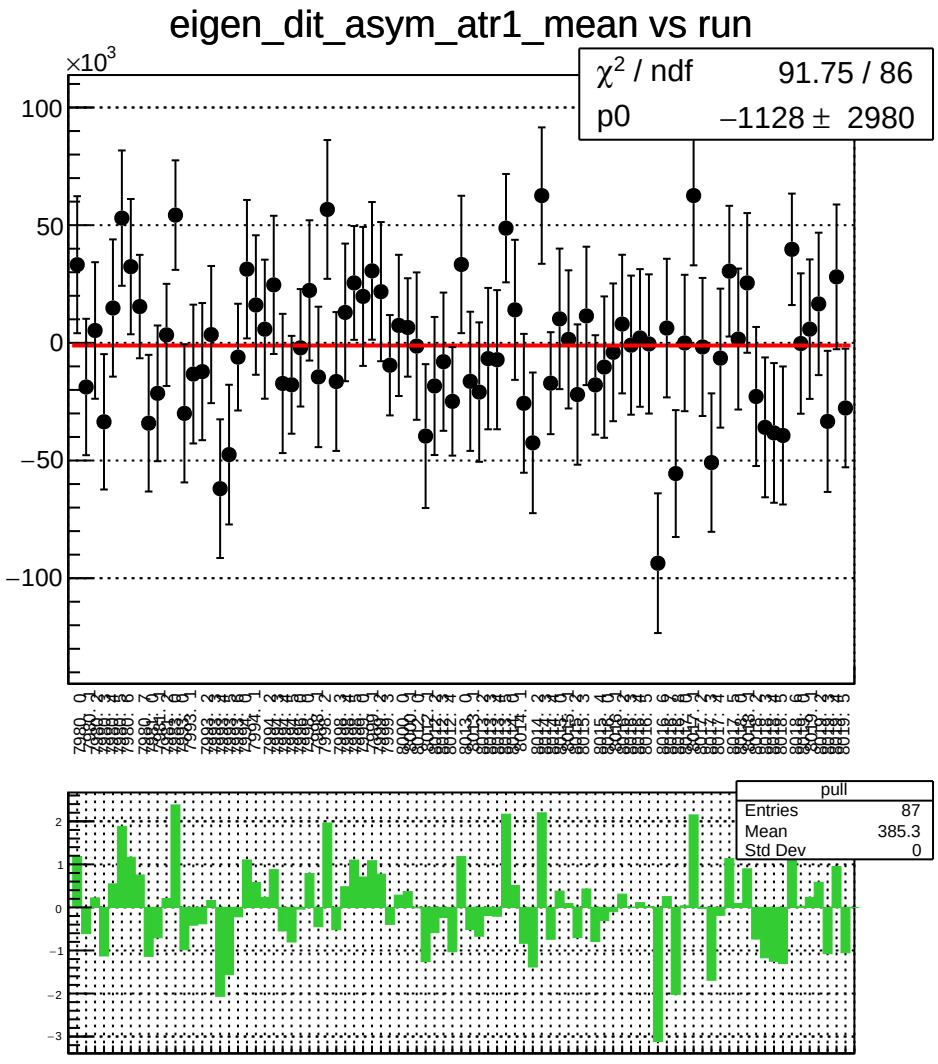

pull1D
Entries 87
Mean −0.009202
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

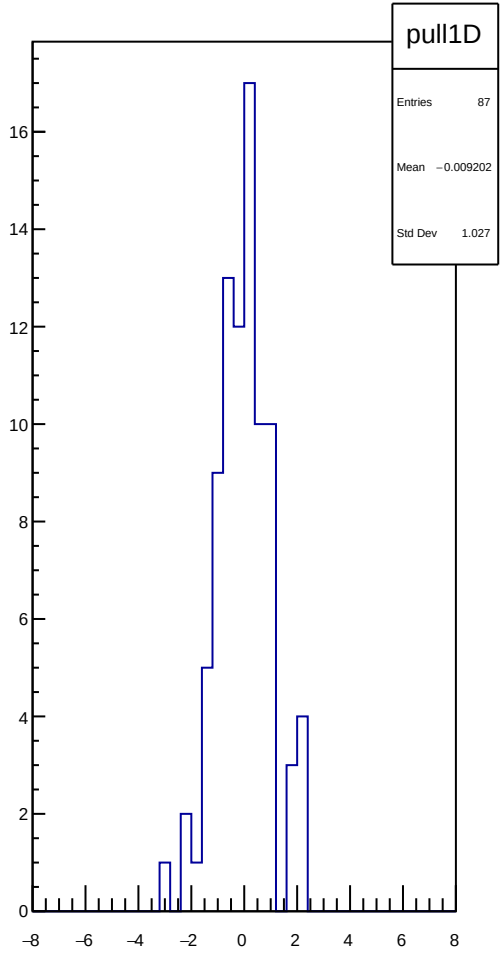

dit_asym_atr1_rms vs run
χ² / ndf 296.8 / 86
p0 2796 ± 2.107
3000
2950
2900
2850
2800
2750
2700

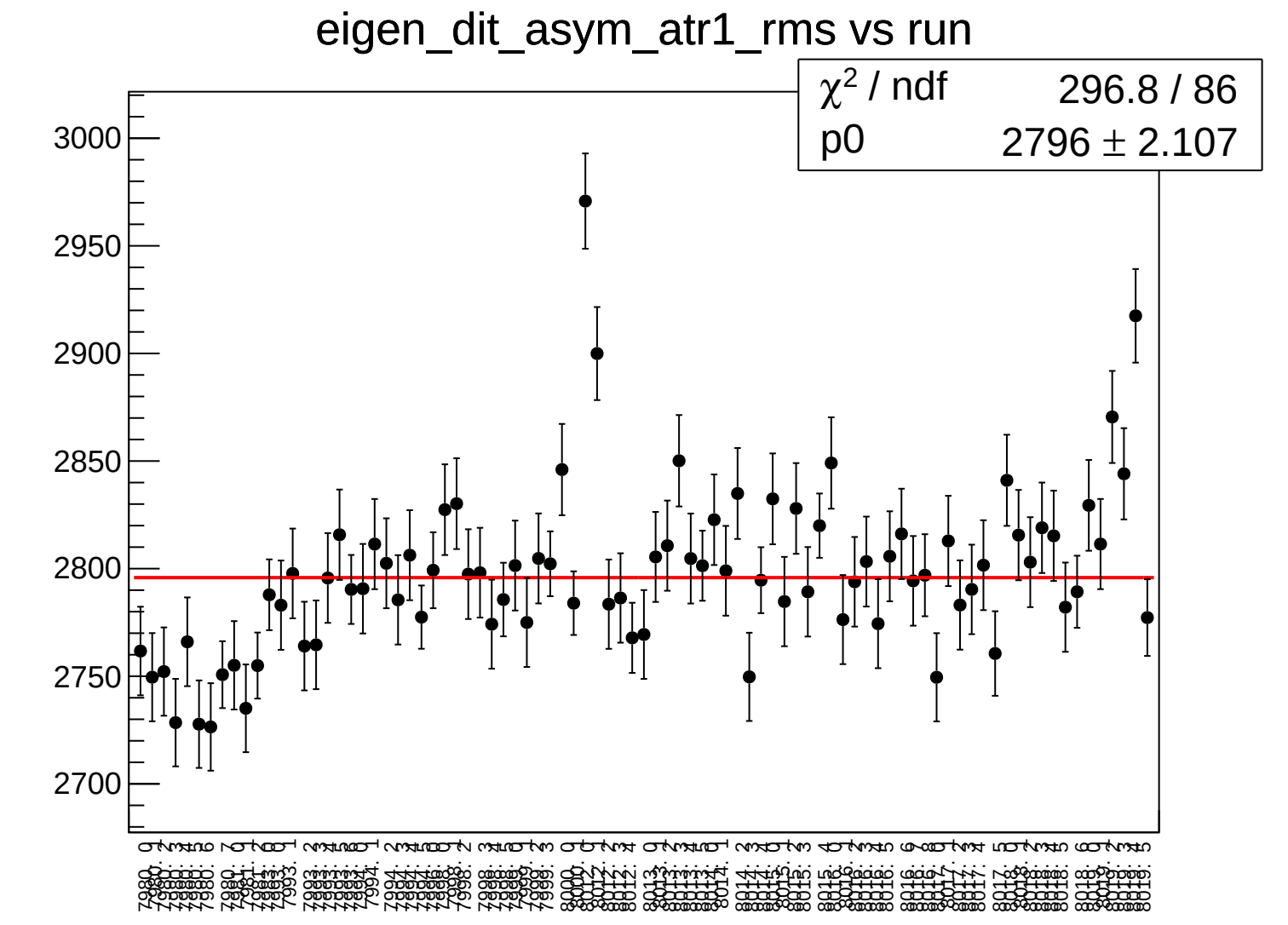

asym_atr1_dit_correction_mean vs run
χ² / ndf 85.14 / 86
p0 −3091 ± 1543
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 71.53
Std Dev 0
2
1
0
−1
−2

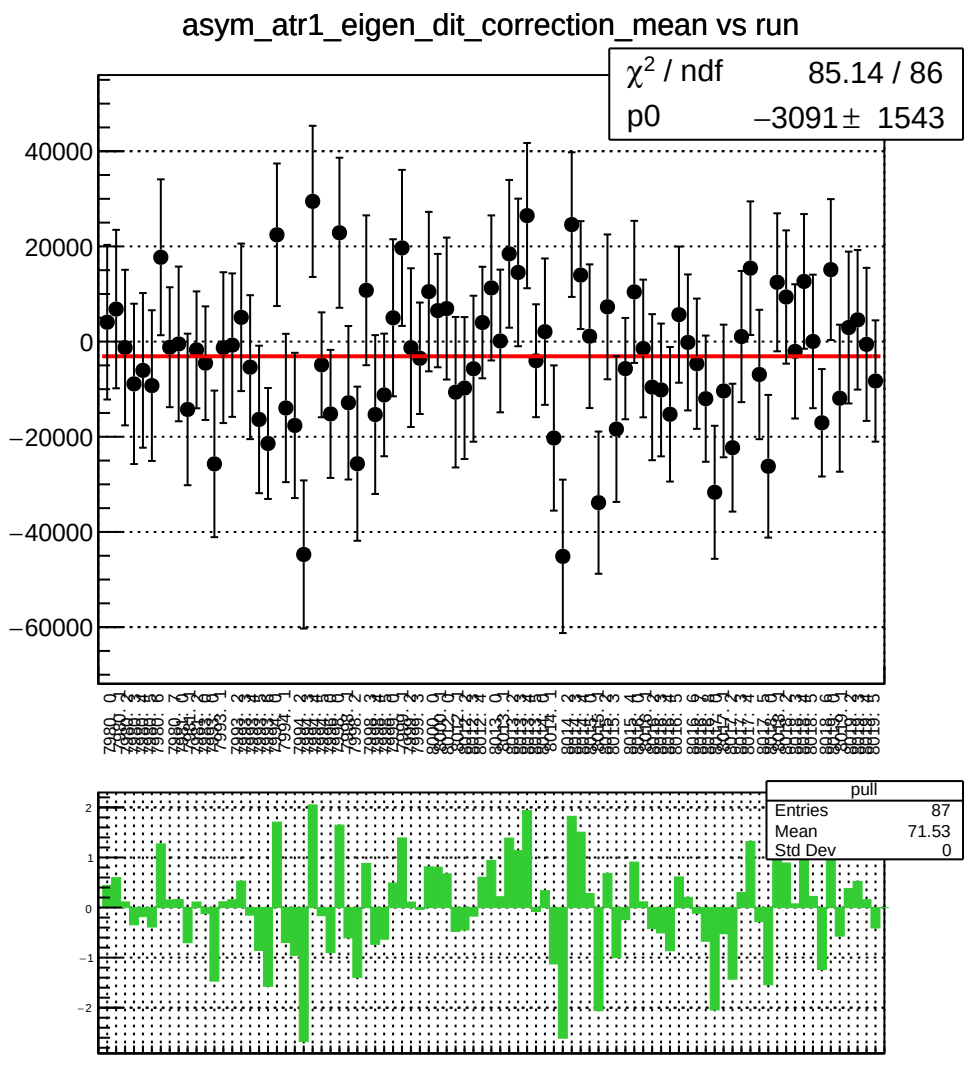

pull1D
Entries 87
Mean 0.008894
Std Dev 0.9892
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

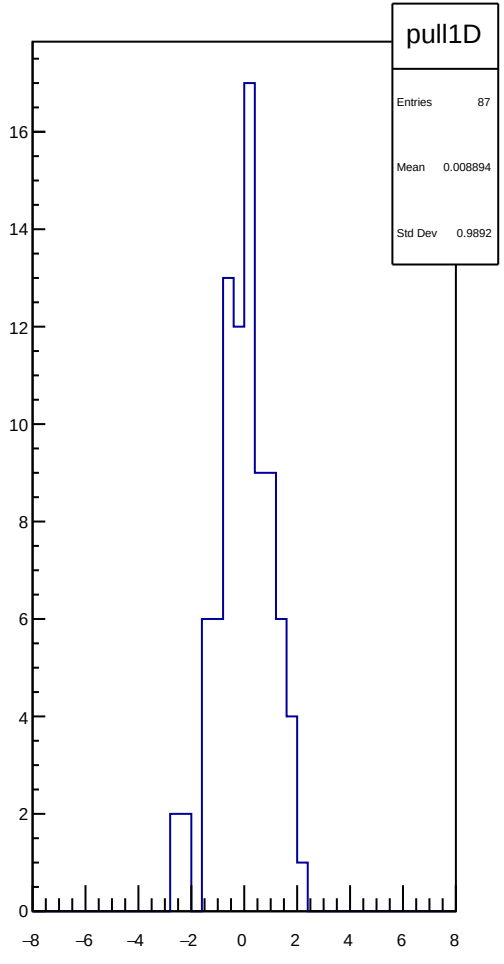

asym_atr1_dit_correction_rms vs run
χ² / ndf 5354 / 86
p0 1446 ± 1.091
1600
1550
1500
1450
1400
1350
1300
1250

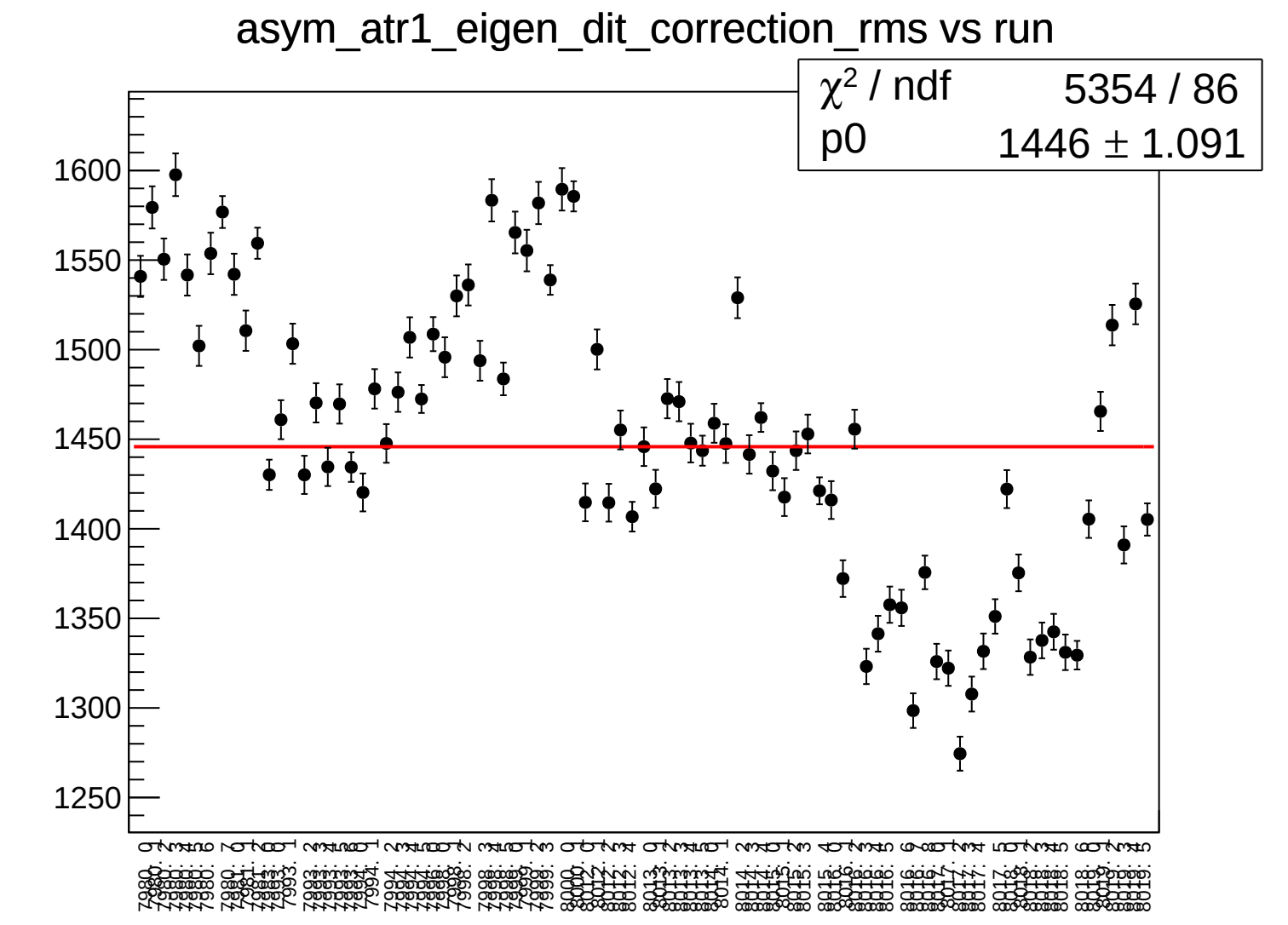

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 91.75 / 86
p0 −1128 ± 2980
100
50
0
−50
−100
pull
Entries 87
Mean 385.3
Std Dev 0
2
1
0
−1
−2
−3

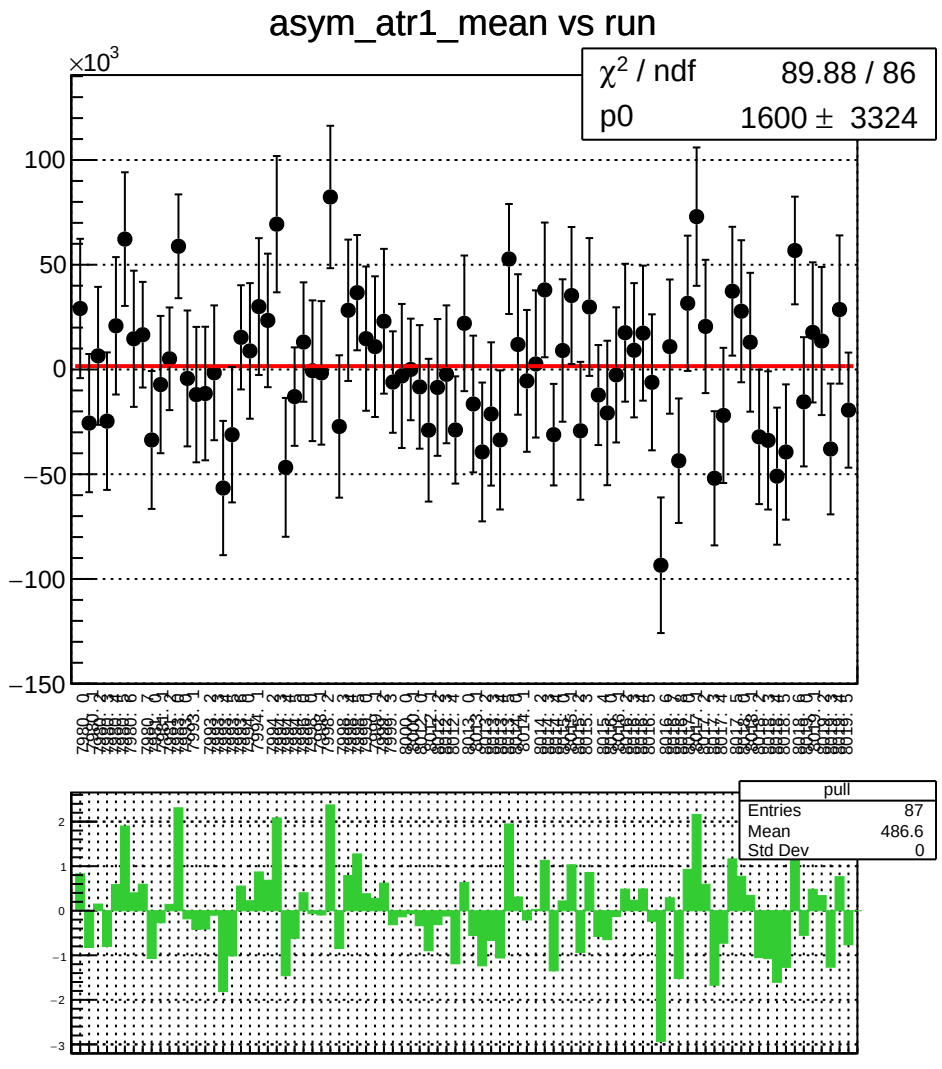

pull1D
Entries 87
Mean −0.009202
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

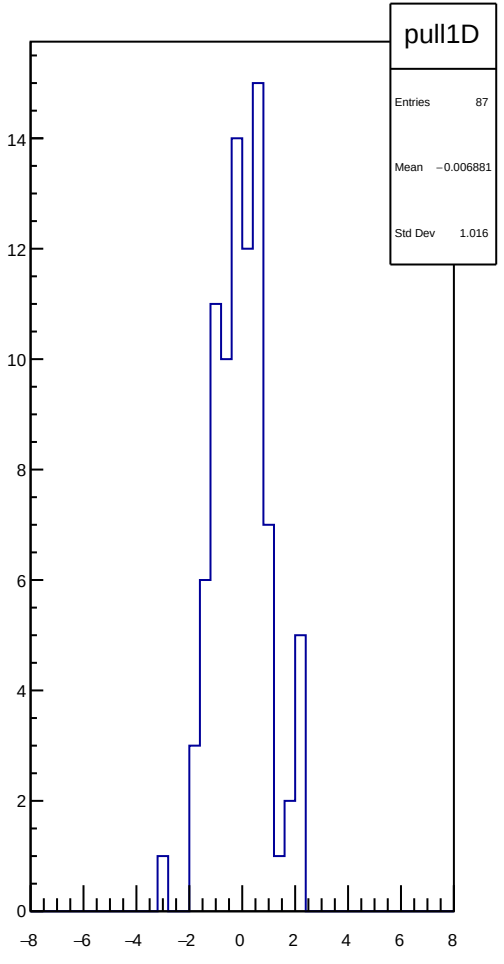

eigen_dit_asym_atr1_rms vs run
χ² / ndf 296.8 / 86
p0 2796 ± 2.107
3000
2950
2900
2850
2800
2750
2700

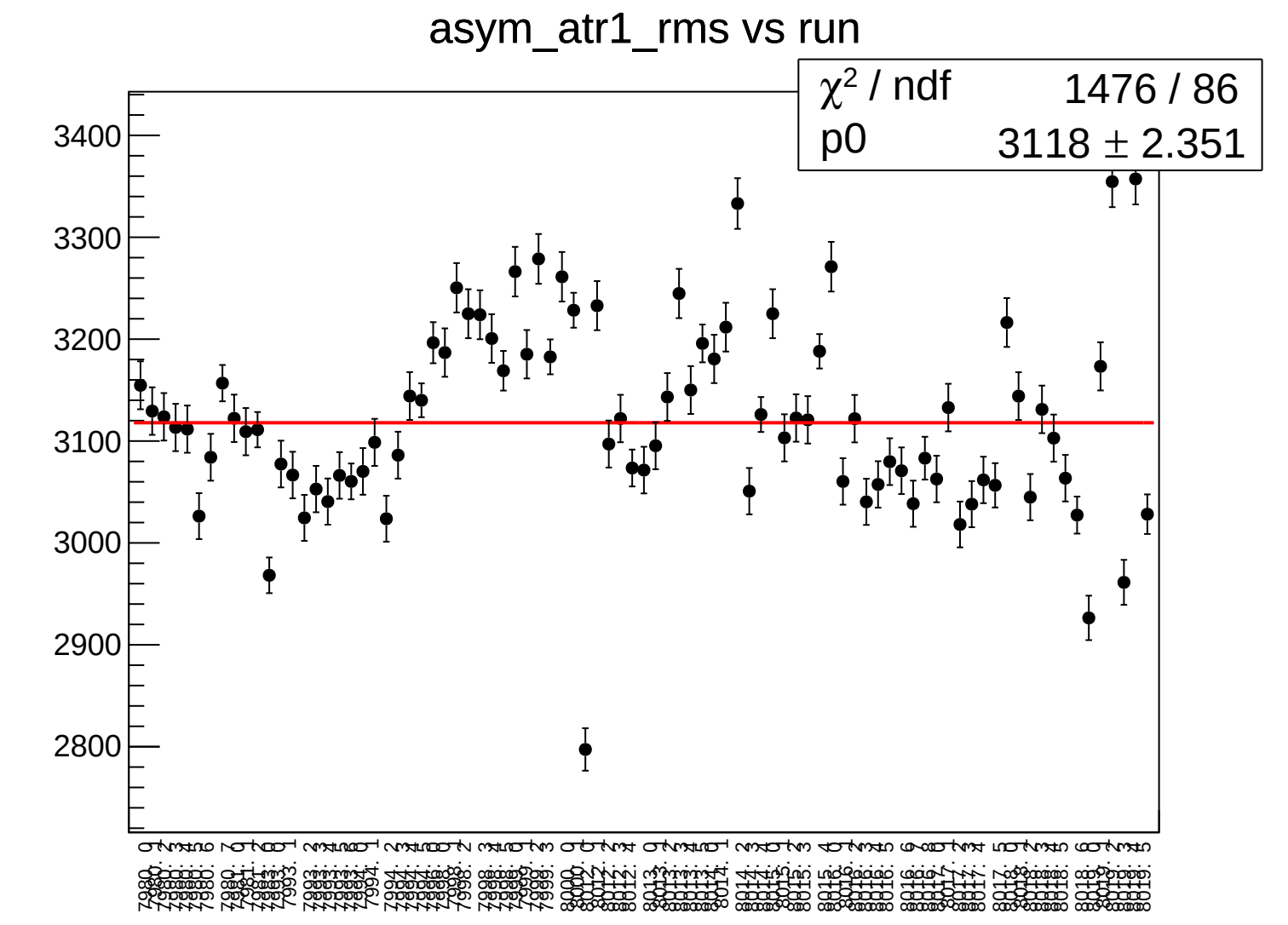

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 85.14 / 86
p0 −3091 ± 1543
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 71.53
Std Dev 0
2
1
0
−1
−2

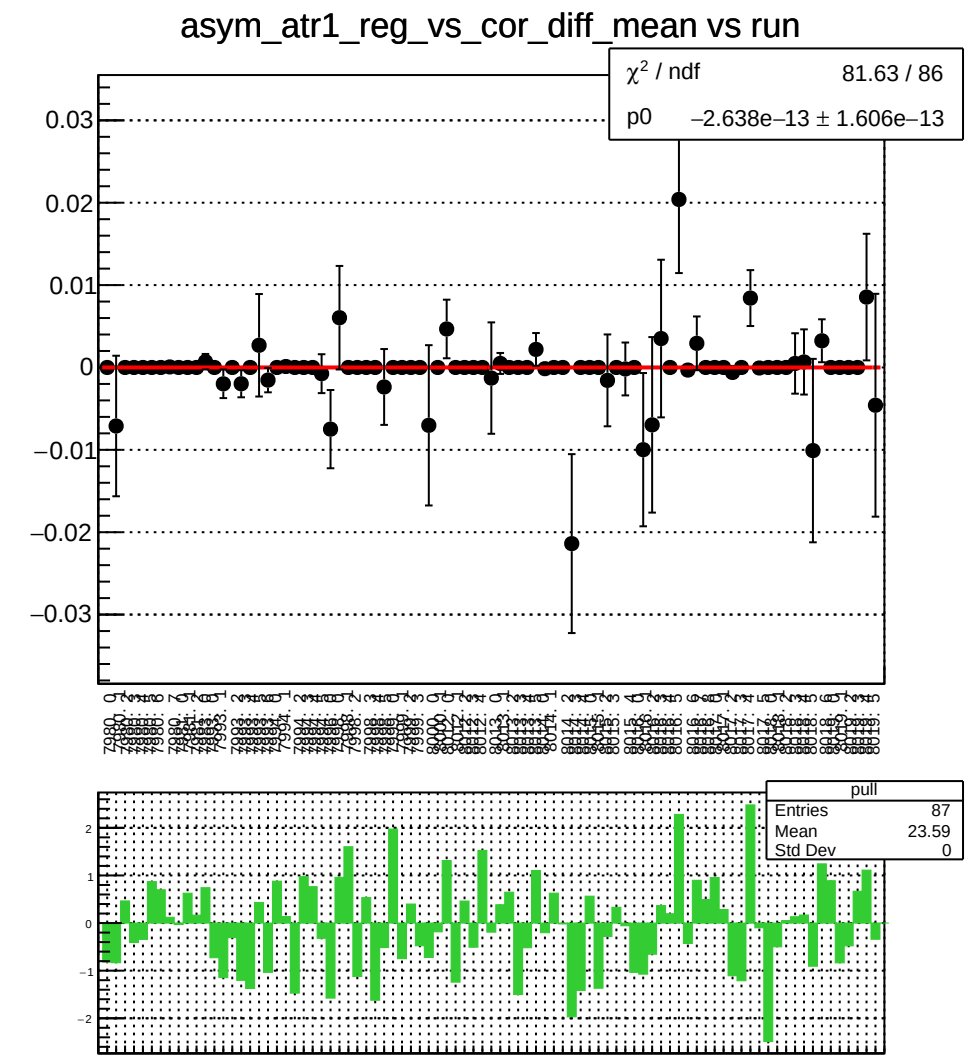

pull1D
Entries 87
Mean 0.008894
Std Dev 0.9892
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

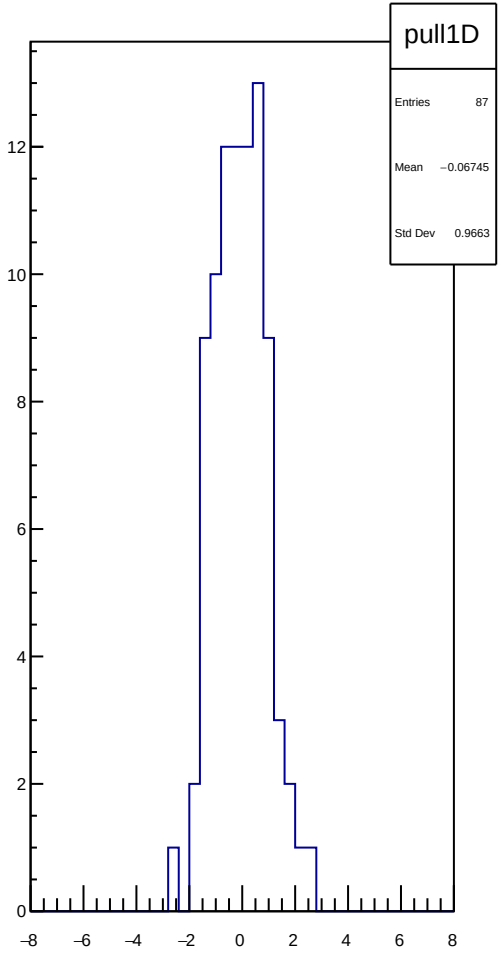

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 5354 / 86
p0 1446 ± 1.091
1600
1550
1500
1450
1400
1350
1300
1250

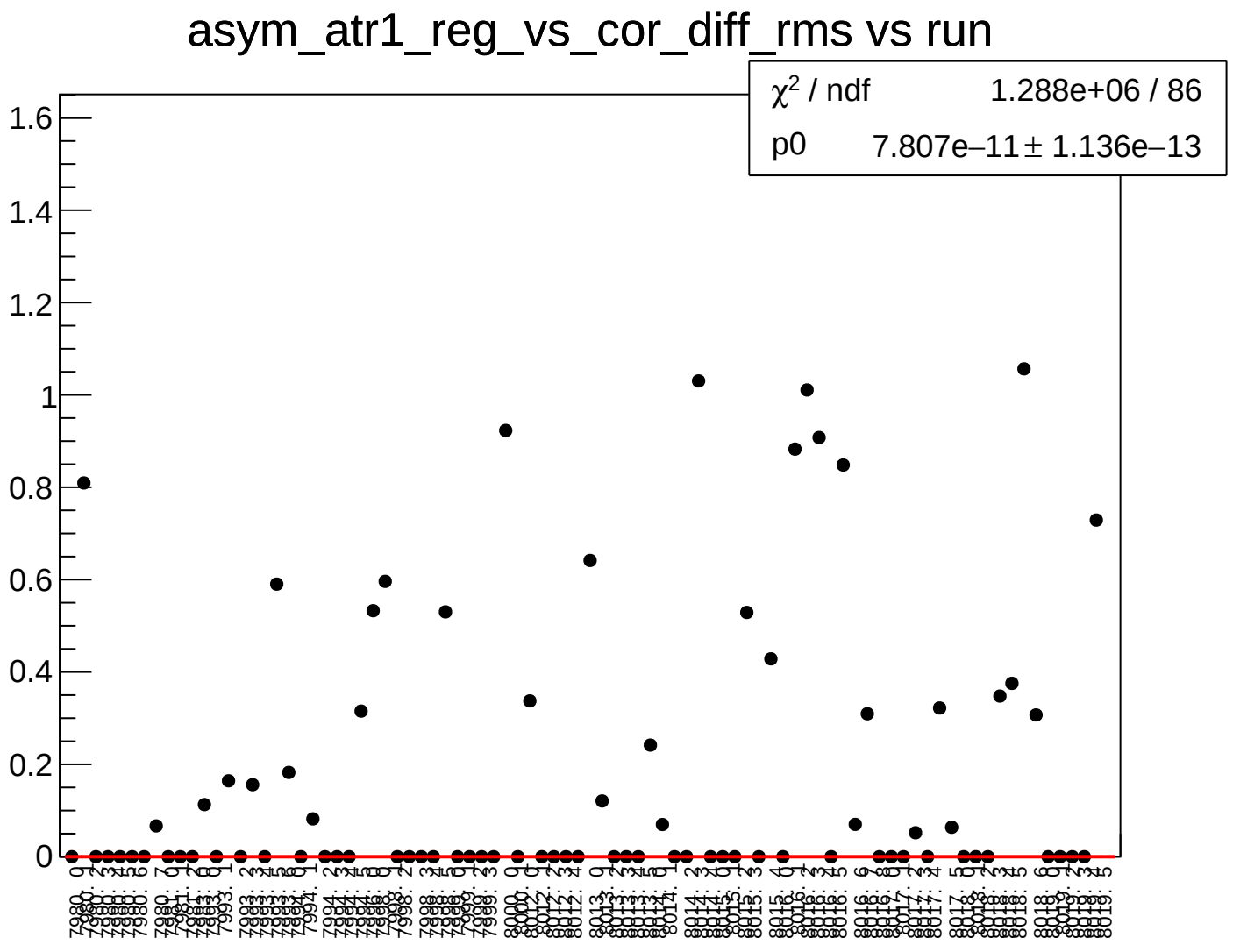

asym_atr1_mean vs run
×10^3
χ² / ndf 89.88 / 86
p0 1600 ± 3324
100
50
0
−50
−100
−150
pull
Entries 87
Mean 486.6
Std Dev 0
2
1
0
−1
−2
−3

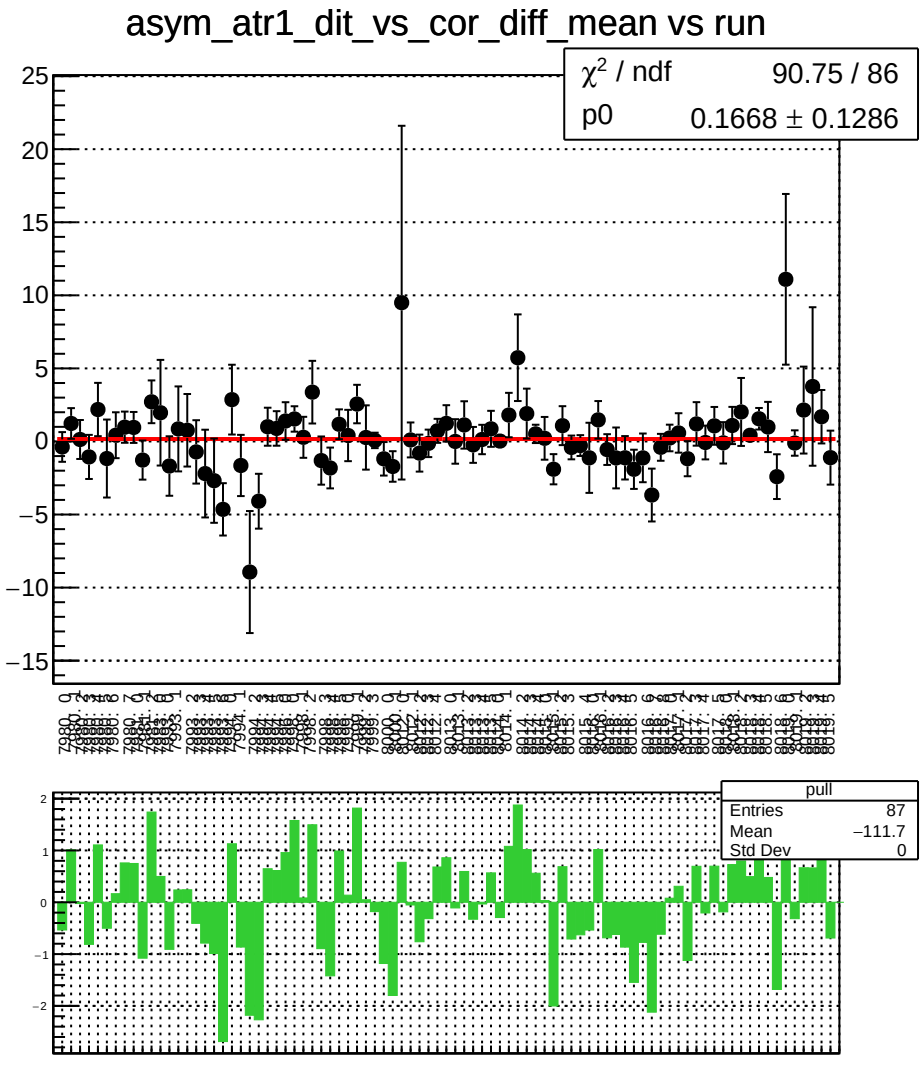

pull1D
Entries 87
Mean −0.006881
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

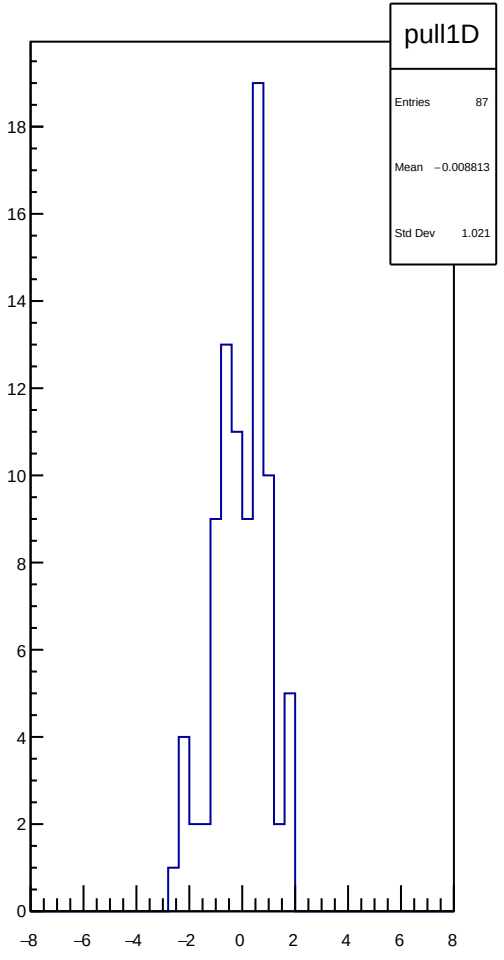

asym_atr1_rms vs run
χ² / ndf 1476 / 86
p0 3118 ± 2.351
3400
3300
3200
3100
3000
2900
2800

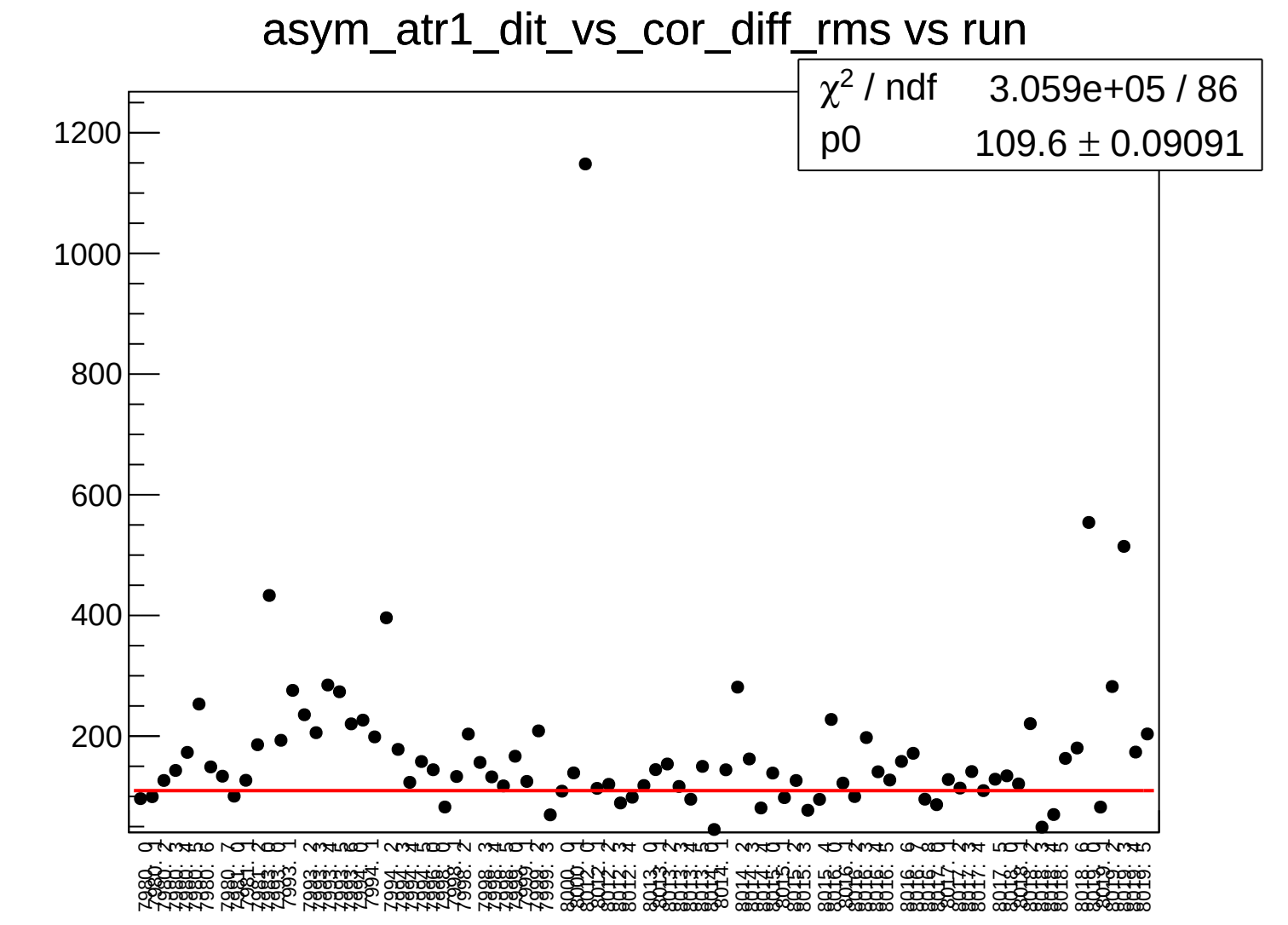

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 81.63 / 86
p0 −2.638e−13 ± 1.606e−13
pull
Entries 87
Mean 23.59
Std Dev 0

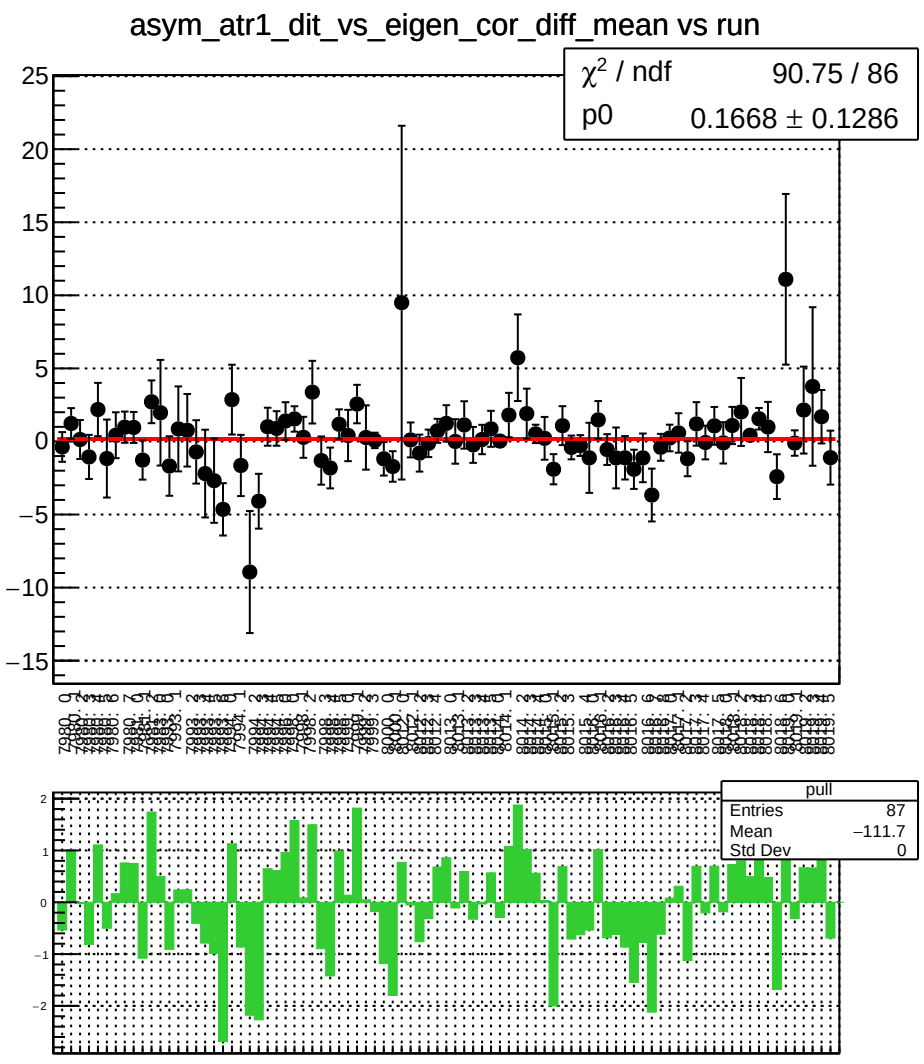

pull1D
Entries 87
Mean −0.06745
Std Dev 0.9663

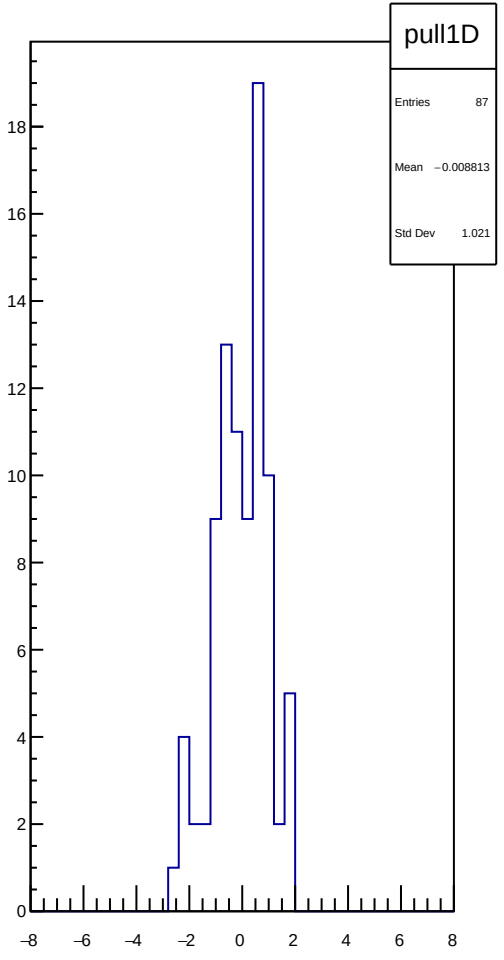

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.288e+06 / 86
p0 7.807e−11 ± 1.136e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

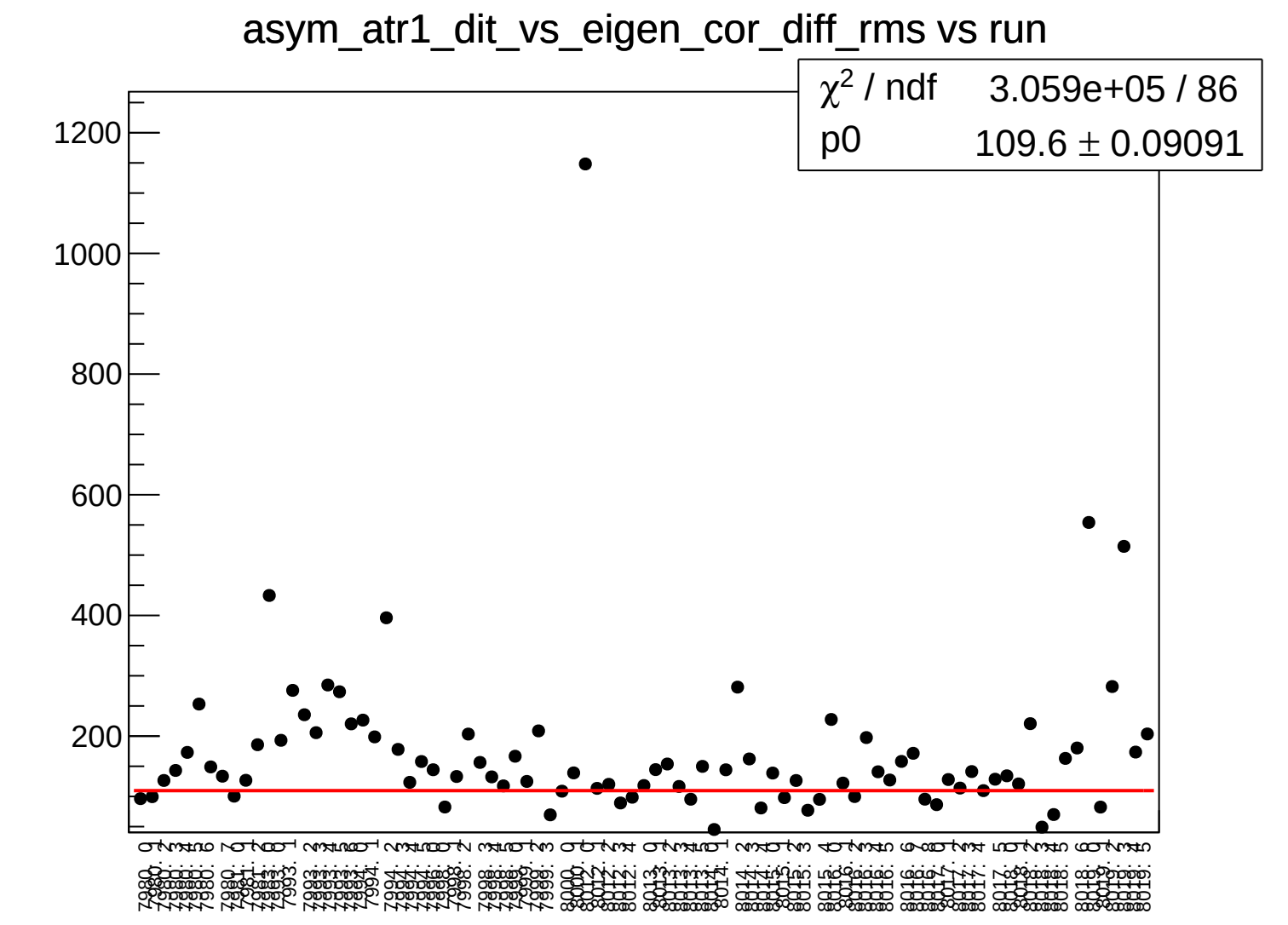

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 90.75 / 86
p0 0.1668 ± 0.1286
pull
Entries 87
Mean −111.7
Std Dev 0

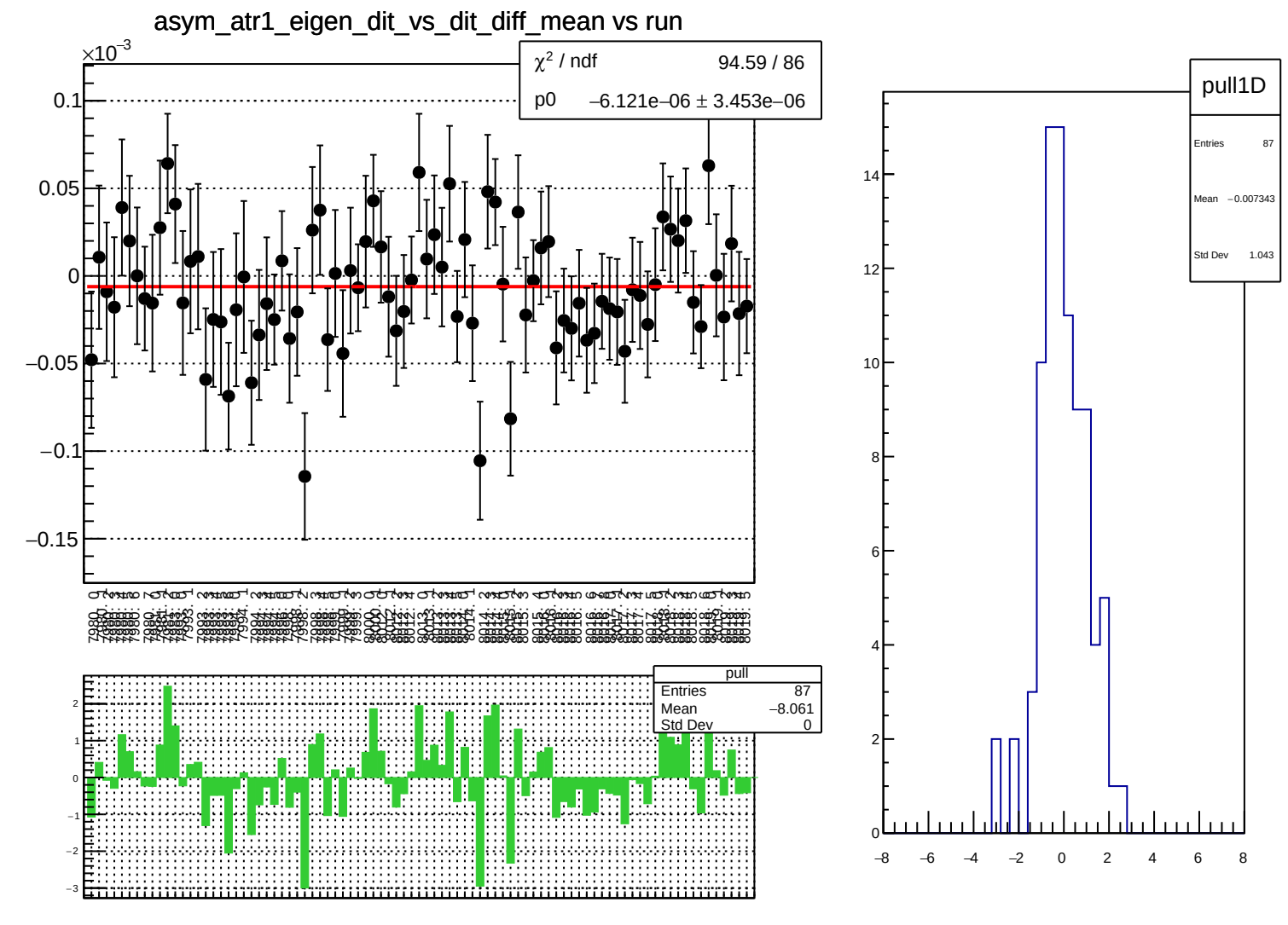

pull1D
Entries 87
Mean −0.008813
Std Dev 1.021

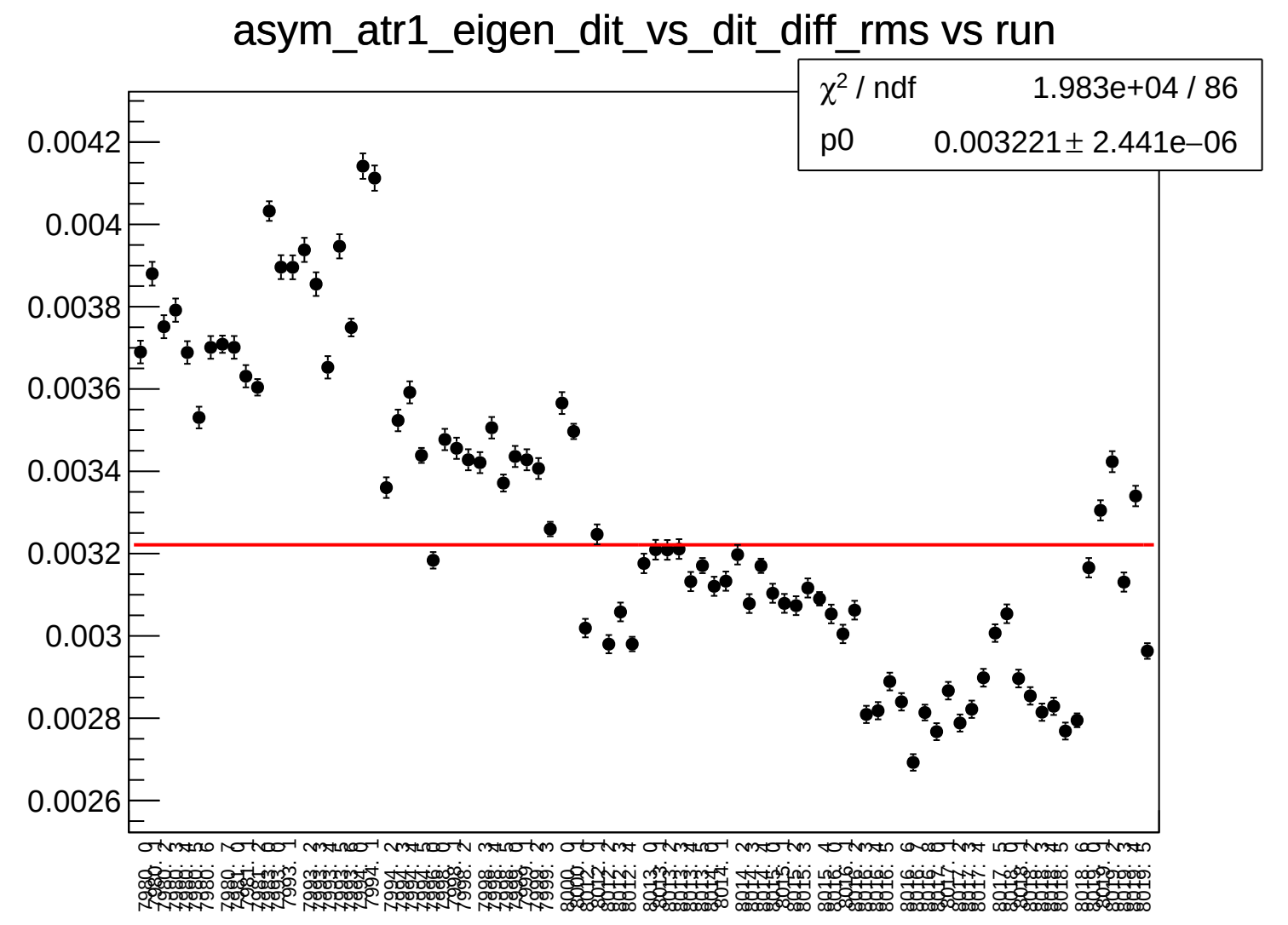

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.059e+05 / 86
p0 109.6 ± 0.09091
1200
1000
800
600
400
200

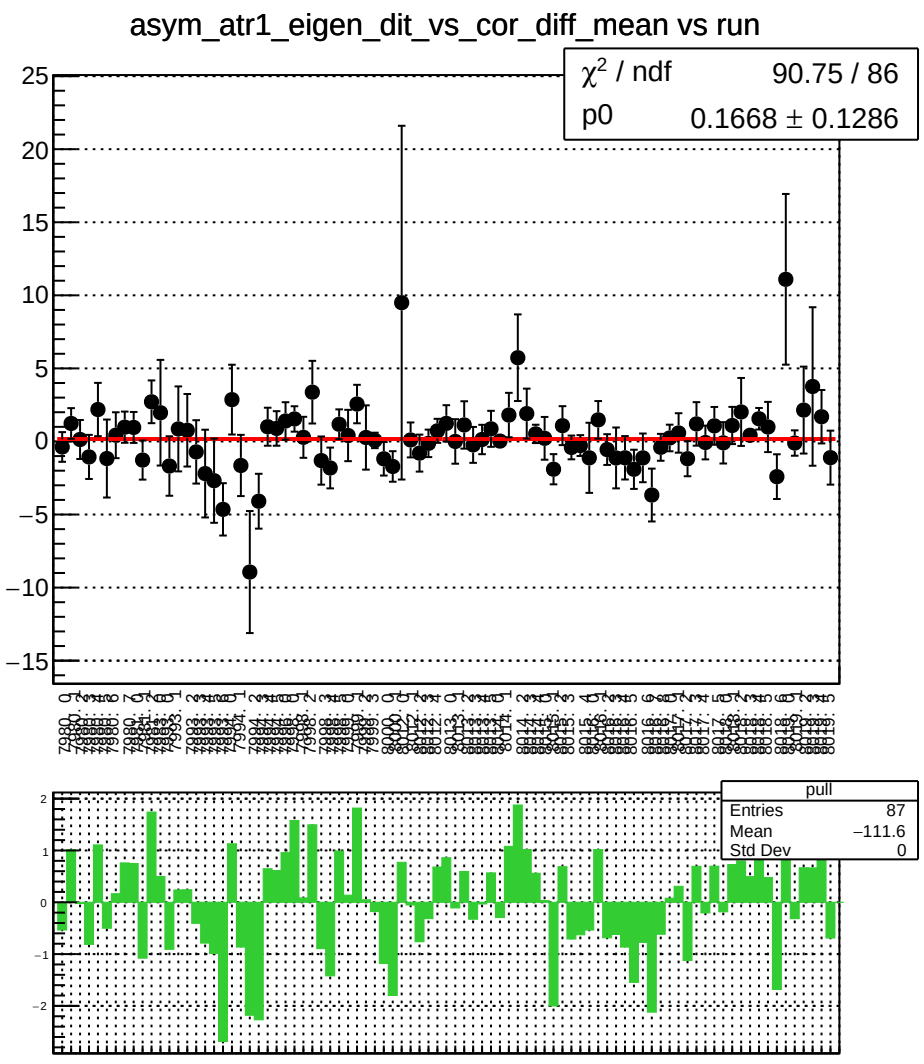

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.75 / 86
p0 0.1668 ± 0.1286
pull
Entries 87
Mean −111.7
Std Dev 0

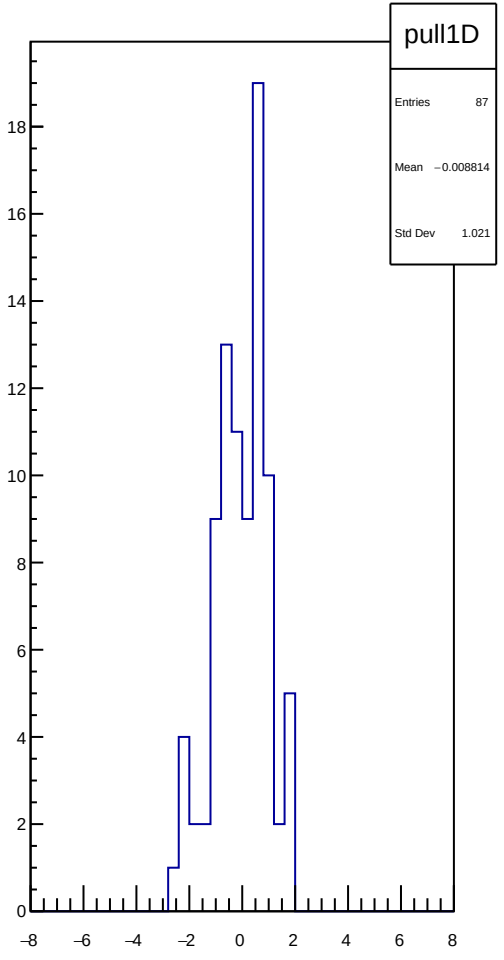

pull1D
Entries 87
Mean −0.008813
Std Dev 1.021

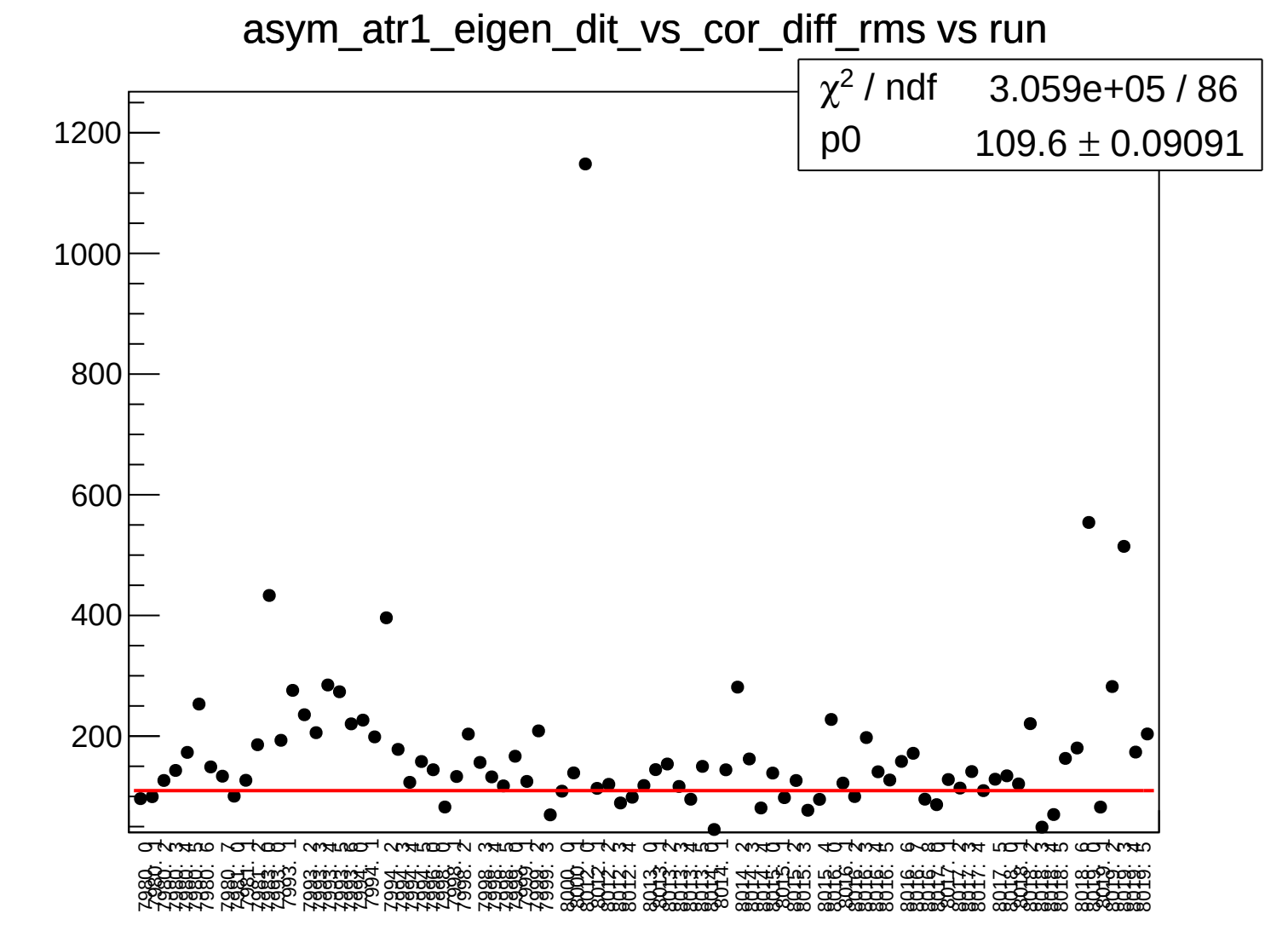

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.059e+05 / 86
p0 109.6 ± 0.09091
1200
1000
800
600
400
200

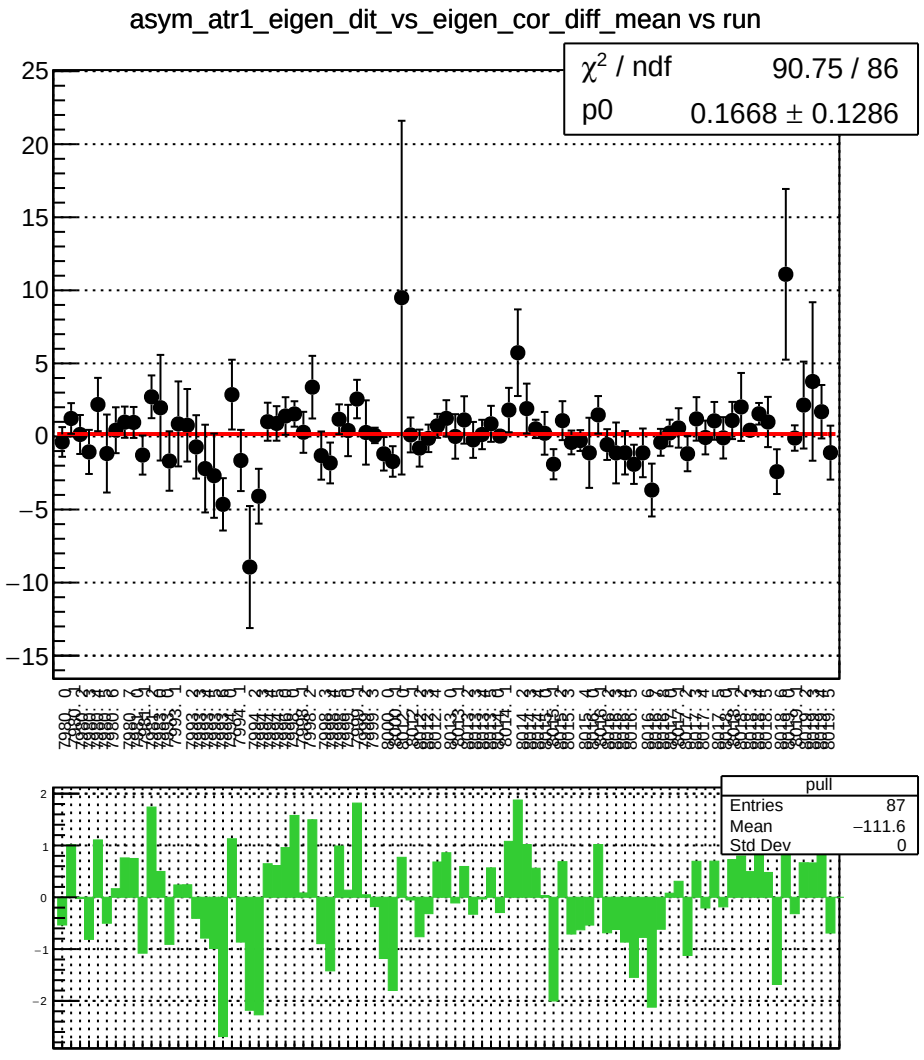

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 94.59 / 86
p0 −6.121e−06 ± 3.453e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean −8.061
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.007343
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

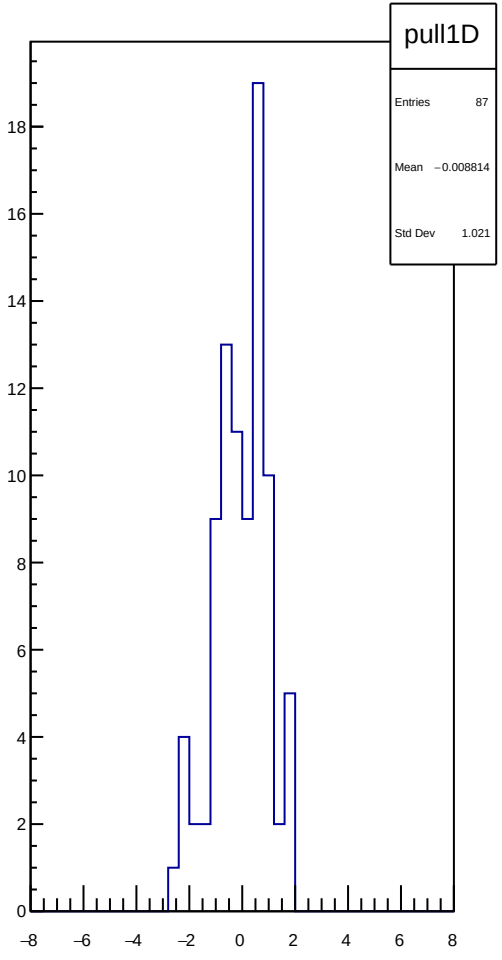

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.983e+04 / 86
p0 0.003221 ± 2.441e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

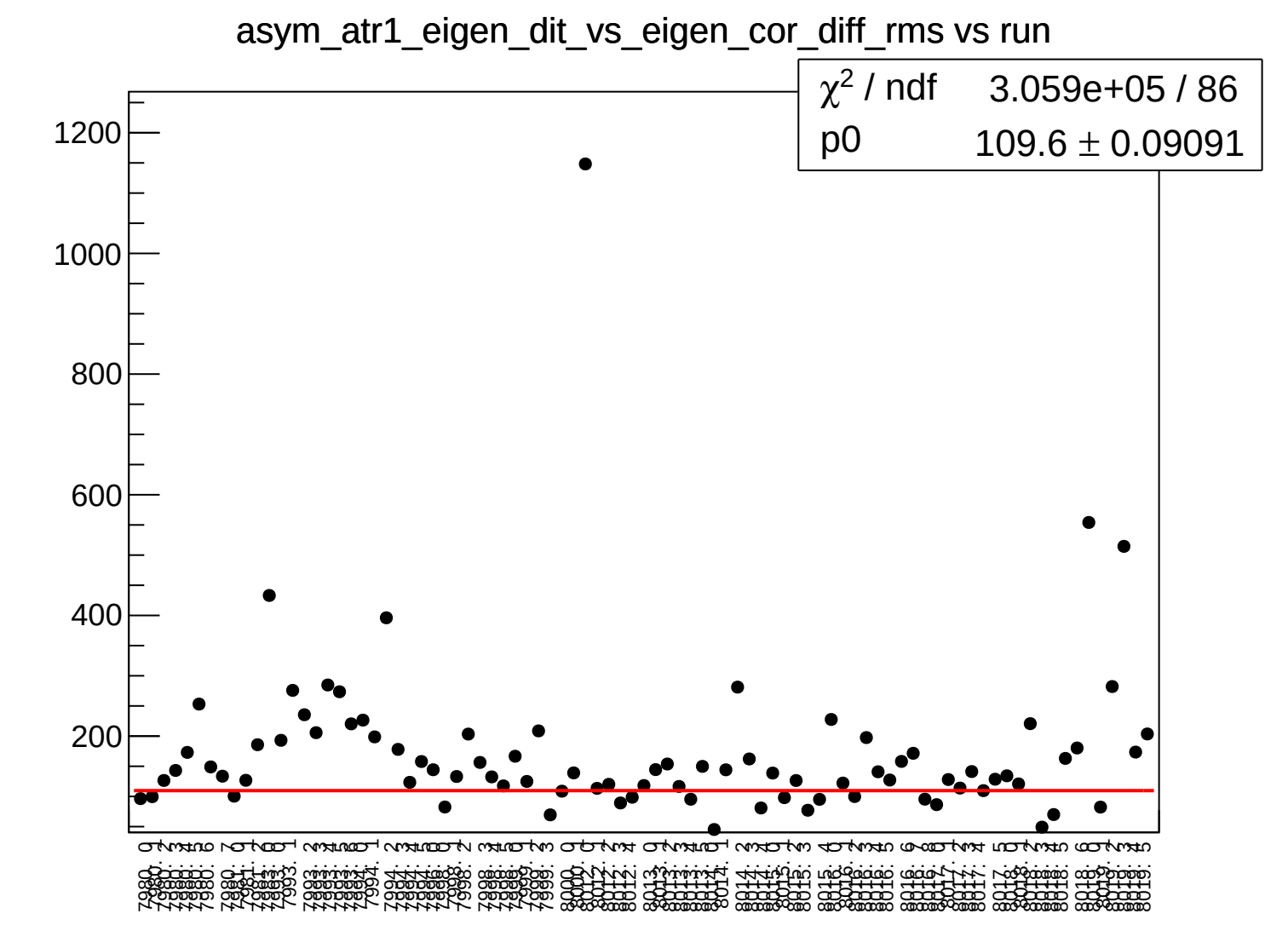

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.75 / 86
p0 0.1668 ± 0.1286
pull
Entries 87
Mean −111.6
Std Dev 0

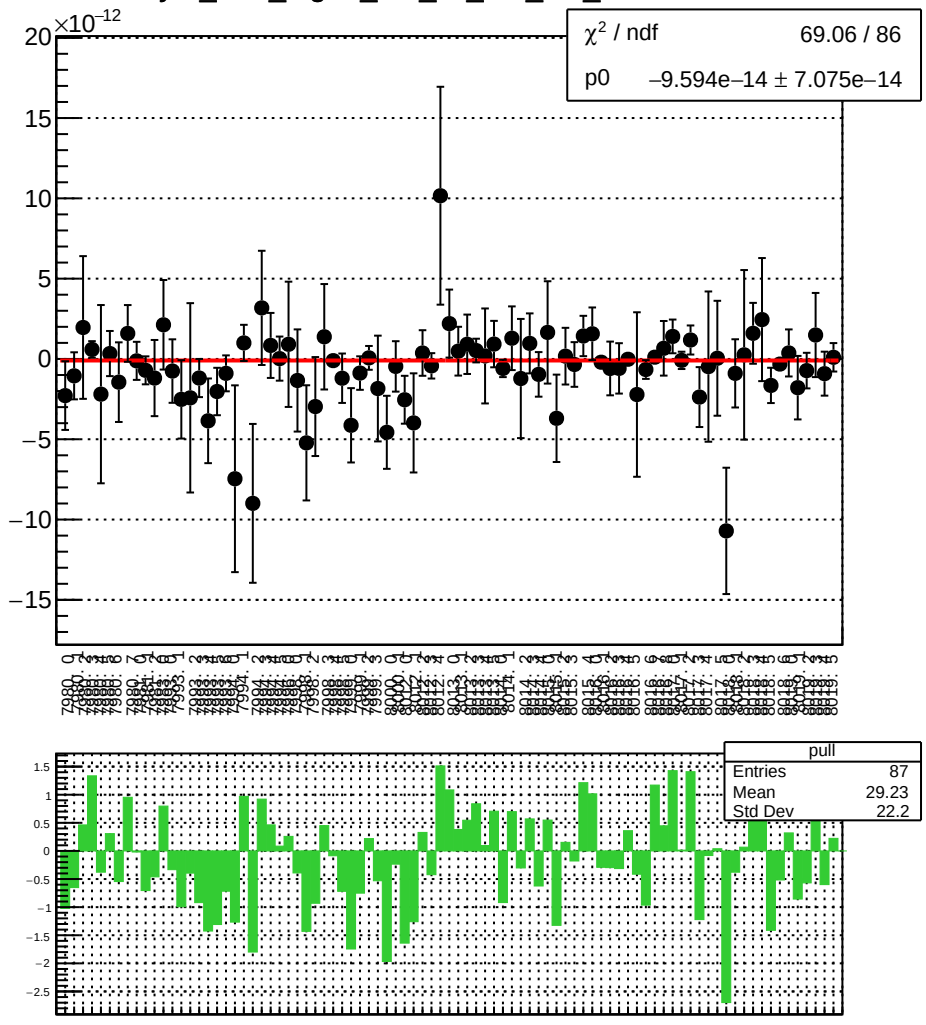

pull1D
Entries 87
Mean −0.008814
Std Dev 1.021

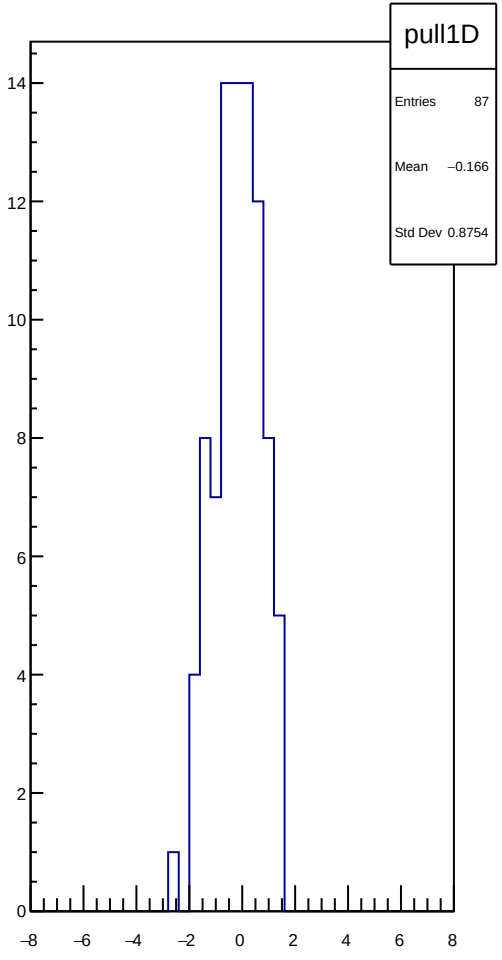

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.059e+05 / 86
p0 109.6 ± 0.09091
1200
1000
800
600
400
200

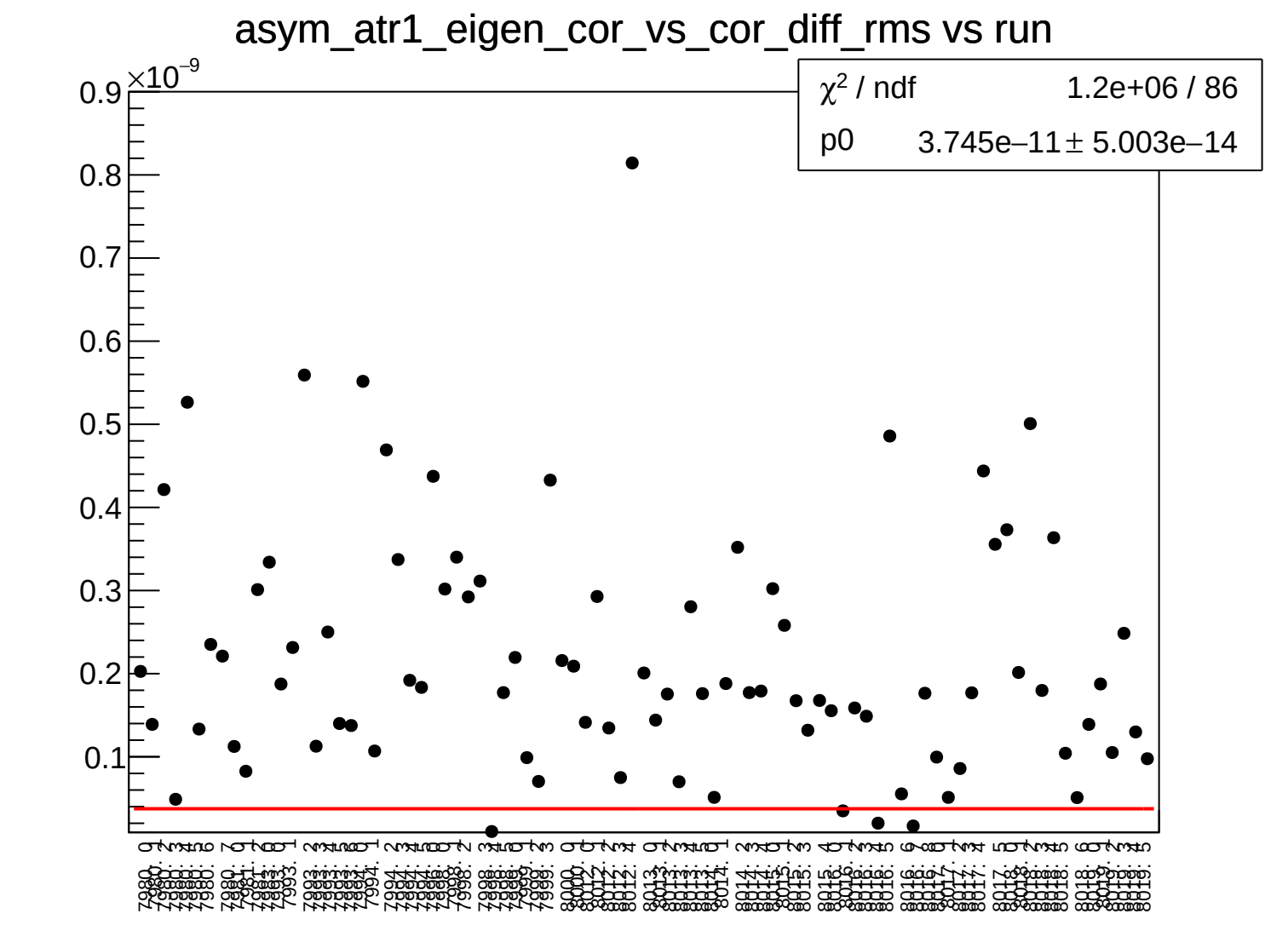

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.75 / 86
p0 0.1668 ± 0.1286
pull
Entries 87
Mean −111.6
Std Dev 0

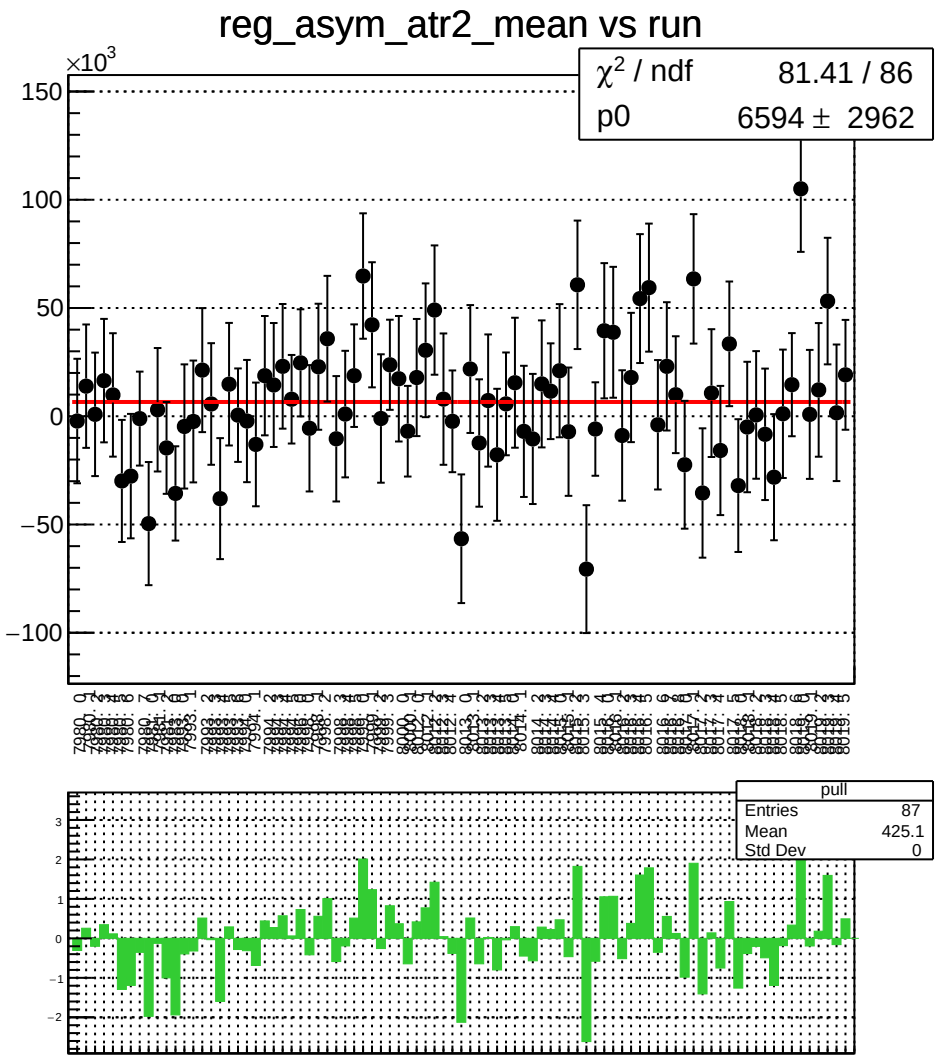

pull1D
Entries 87
Mean −0.008814
Std Dev 1.021

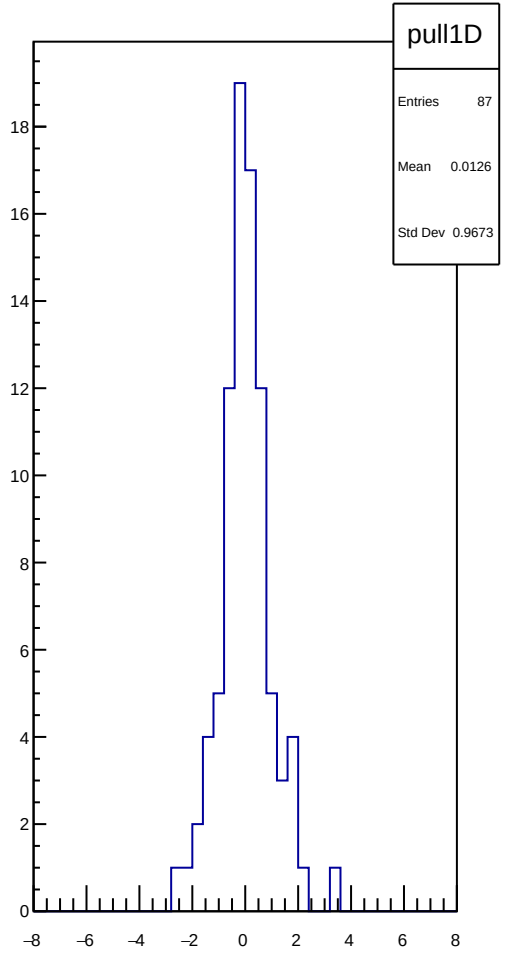

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.059e+05 / 86
p0 109.6 ± 0.09091
1200
1000
800
600
400
200

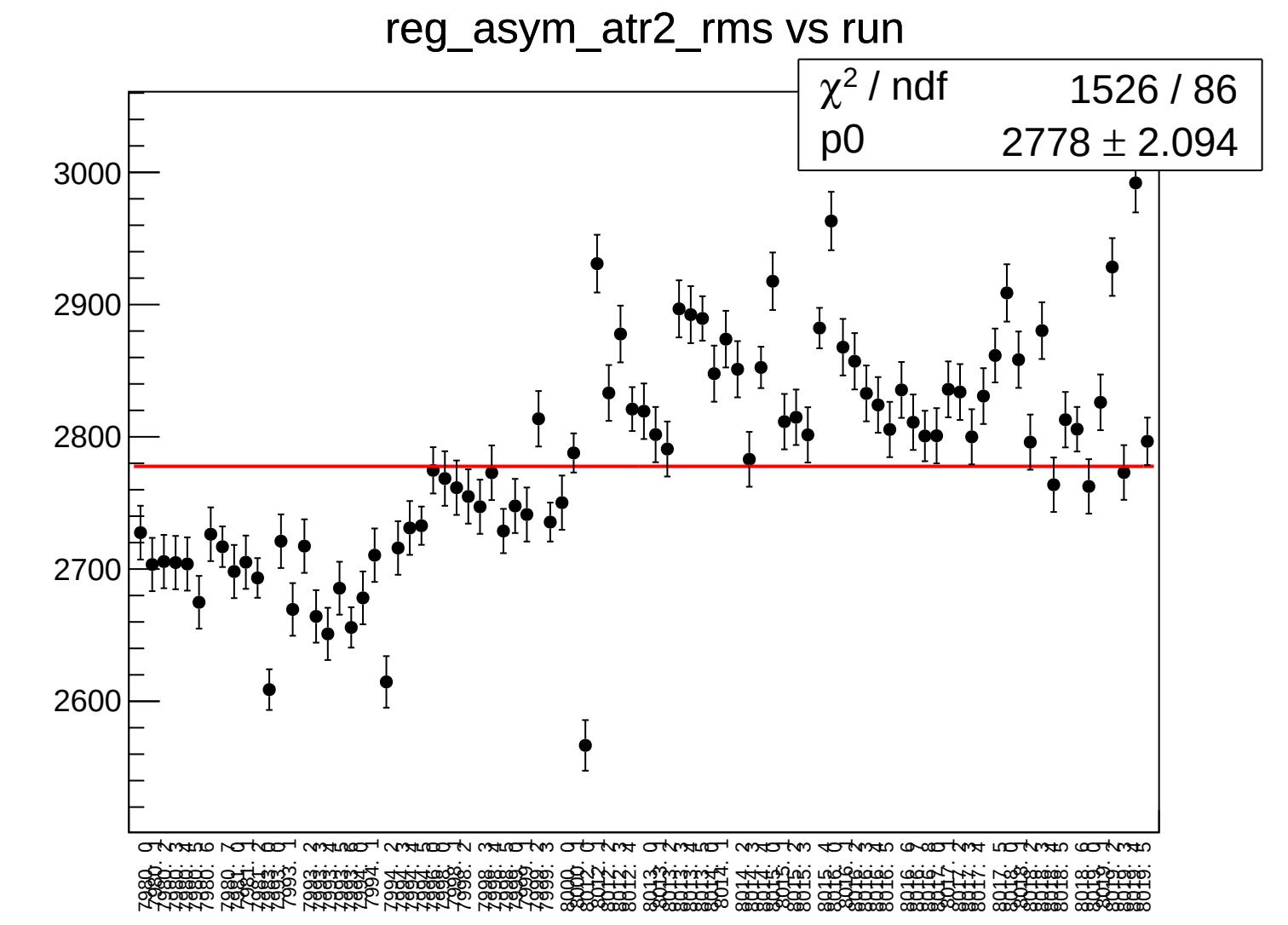

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
χ² / ndf 69.06 / 86
p0 −9.594e−14 ± 7.075e−14
×10⁻¹²
pull
Entries 87
Mean 29.23
Std Dev 22.2

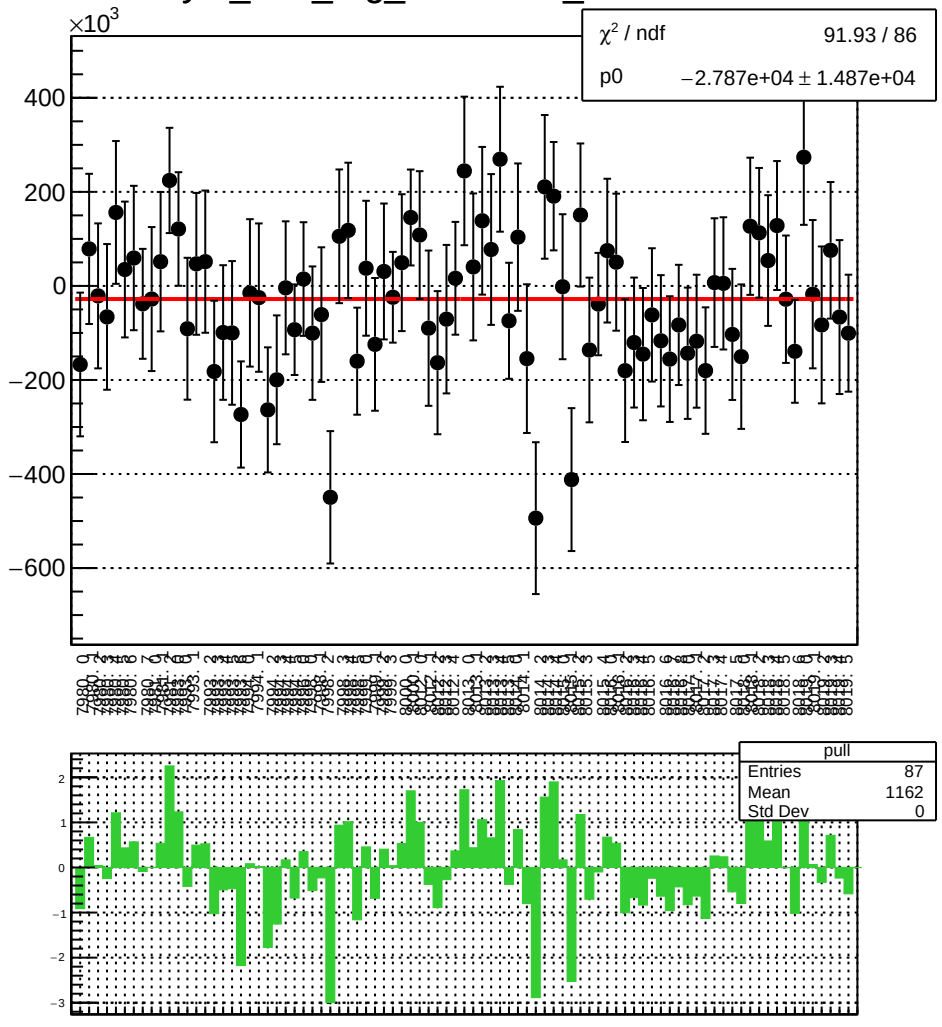

pull1D
Entries 87
Mean −0.166
Std Dev 0.8754

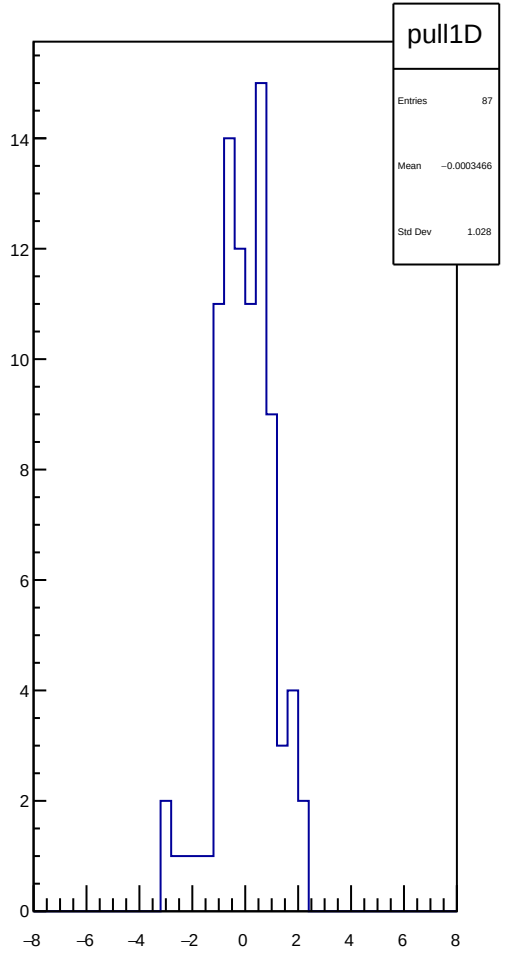

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 1.2e+06 / 86
p0 3.745e−11 ± 5.003e−14

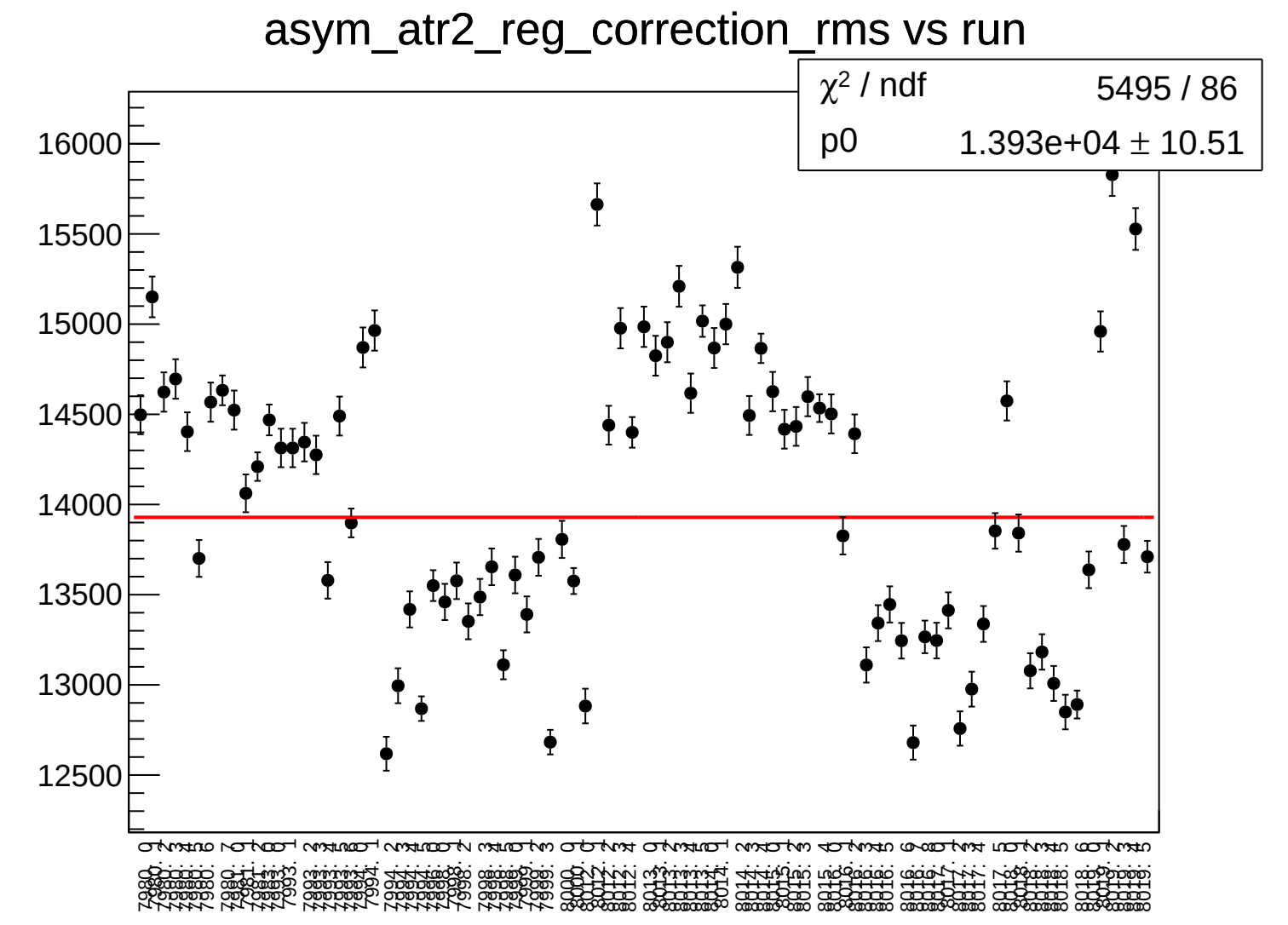

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 81.41 / 86
p0 6594 ± 2962
150
100
50
0
−50
−100
pull
Entries 87
Mean 425.1
Std Dev 0
3
2
1
0
−1
−2

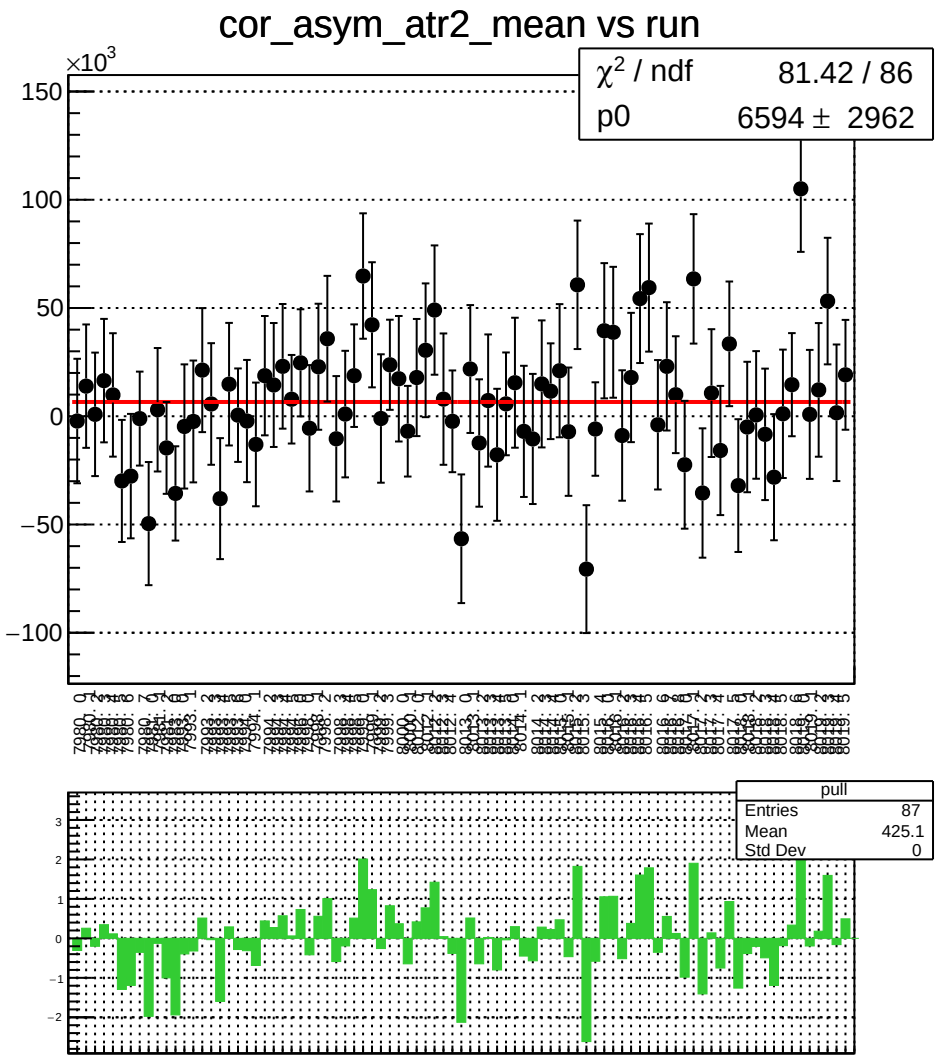

pull1D
Entries 87
Mean 0.0126
Std Dev 0.9673
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

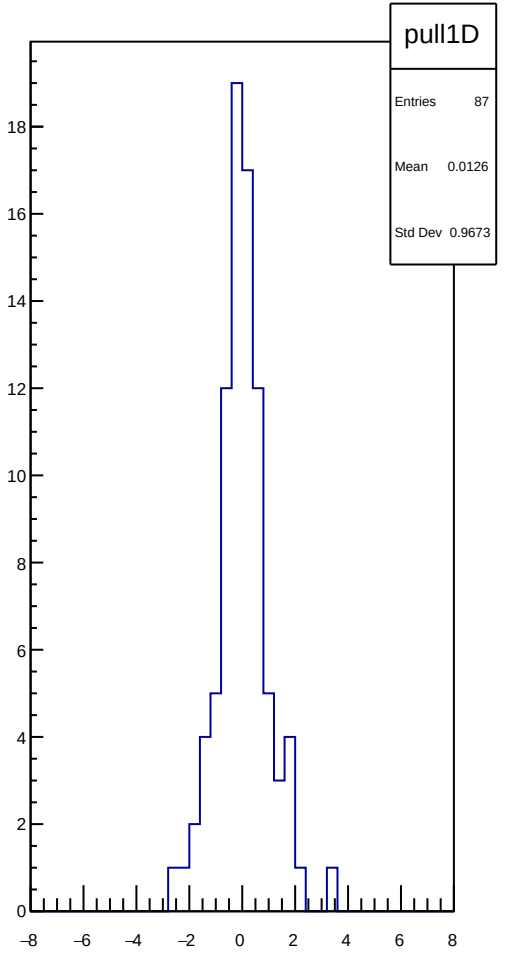

reg_asym_atr2_rms vs run
χ² / ndf 1526 / 86
p0 2778 ± 2.094
3000
2900
2800
2700
2600

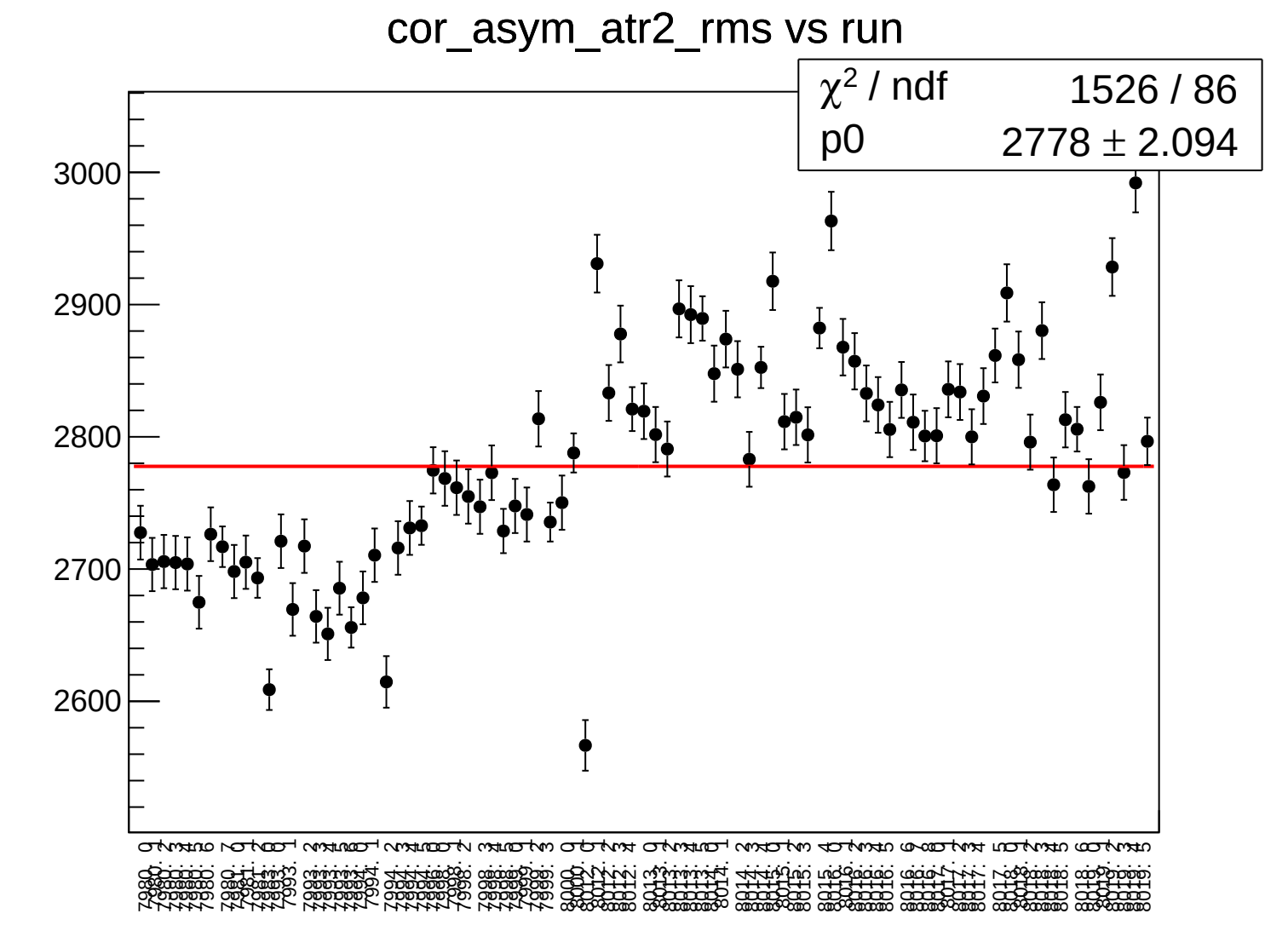

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 91.93 / 86
p0 −2.787e+04 ± 1.487e+04
400
200
0
−200
−400
−600
pull
Entries 87
Mean 1162
Std Dev 0
2
1
0
−1
−2
−3

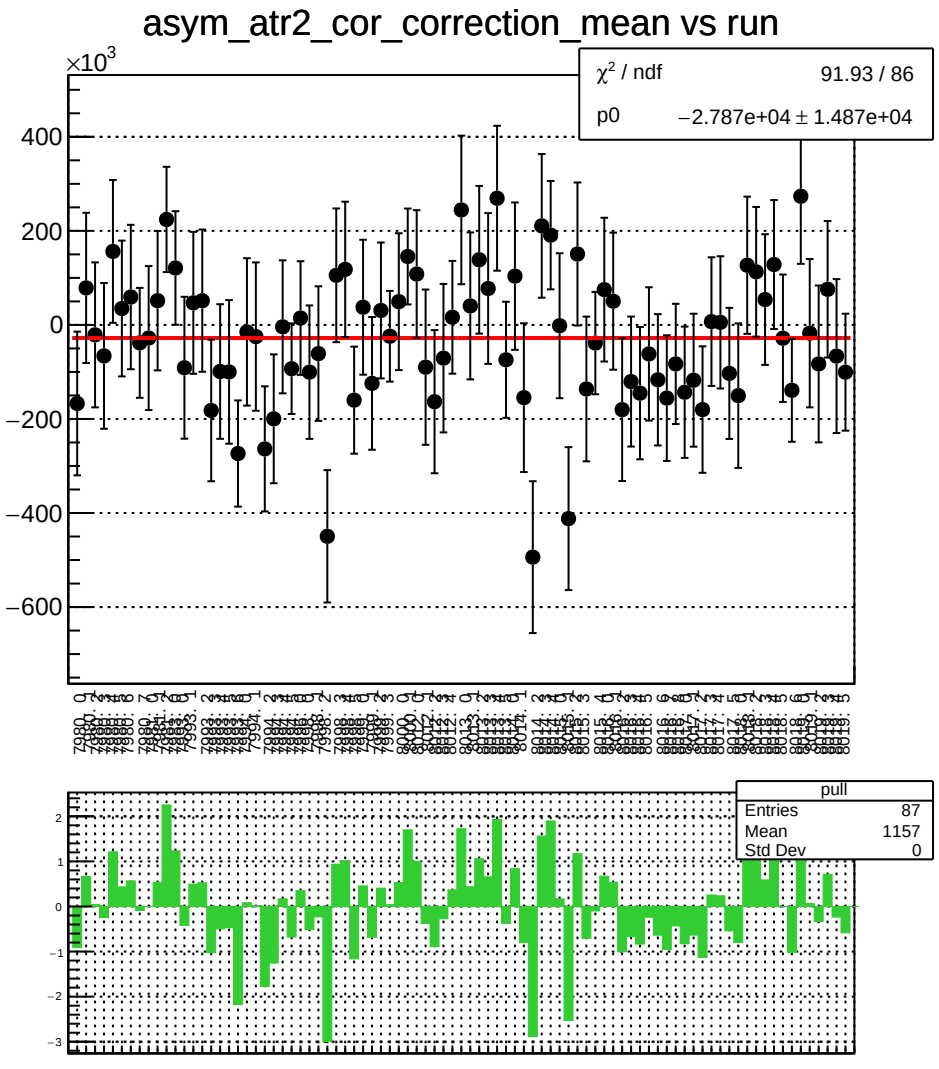

pull1D
Entries 87
Mean −0.0003466
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

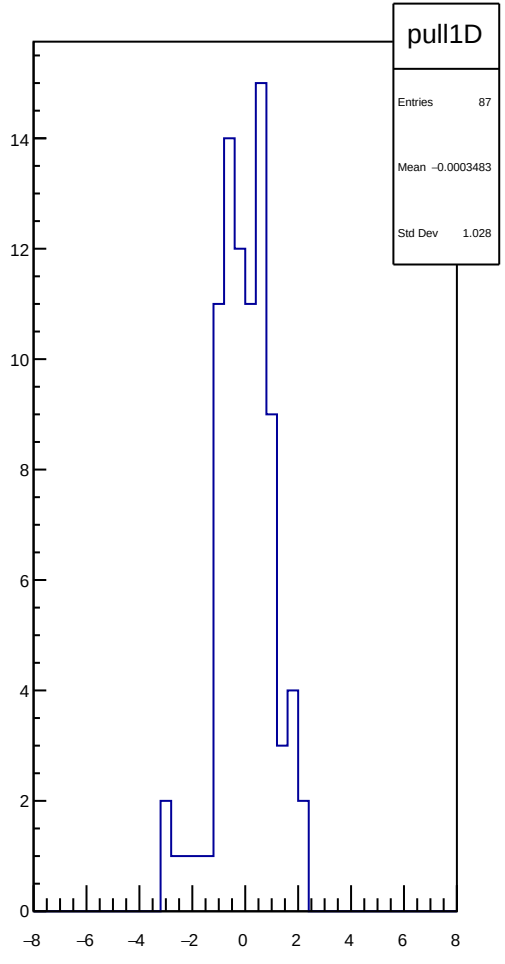

asym_atr2_reg_correction_rms vs run
χ² / ndf 5495 / 86
p0 1.393e+04 ± 10.51
16000
15500
15000
14500
14000
13500
13000
12500

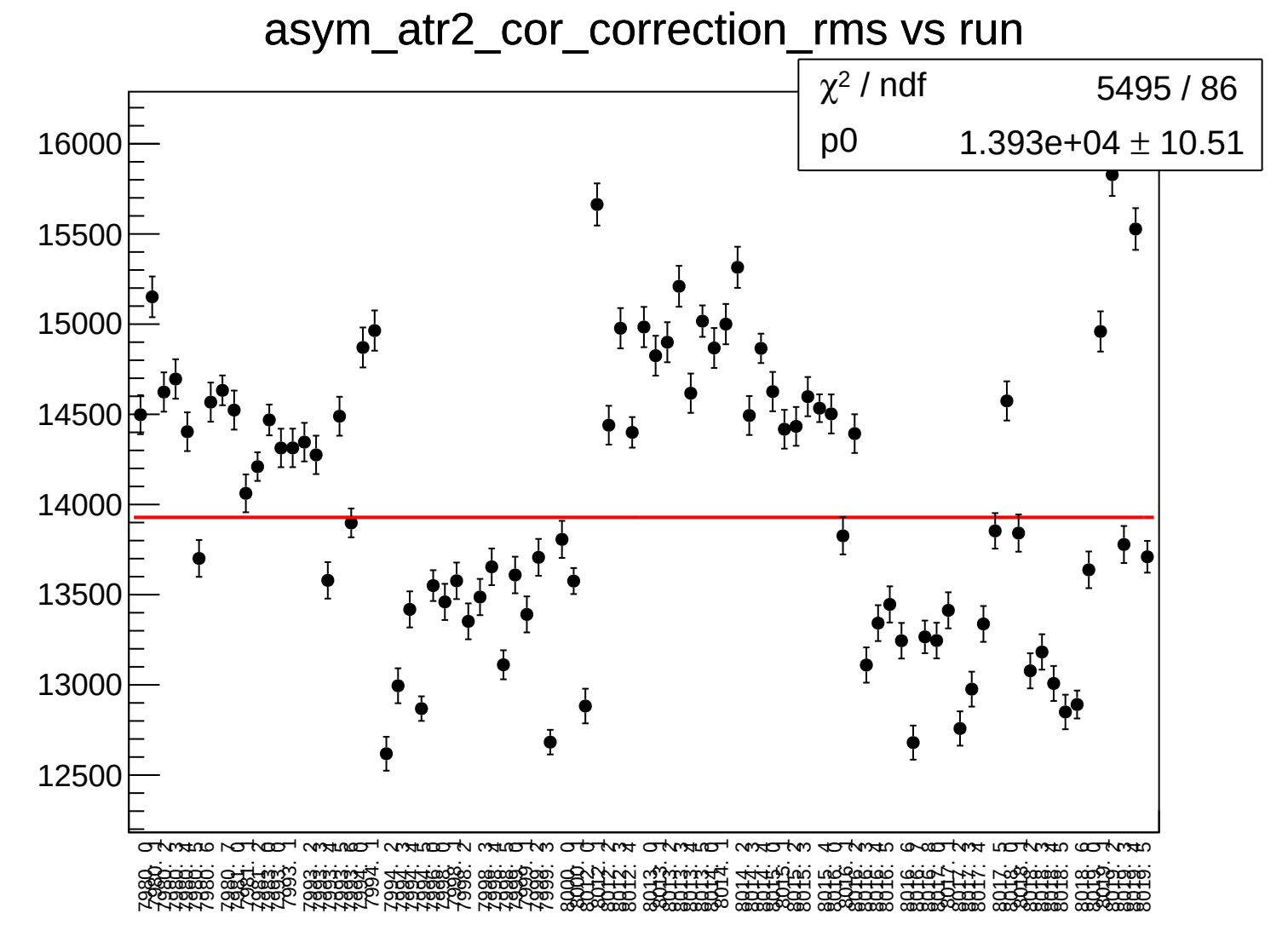

cor_asym_atr2_mean vs run
×10^3
150
100
50
0
−50
−100
χ² / ndf 81.42 / 86
p0 6594 ± 2962
pull
Entries 87
Mean 425.1
Std Dev 0
3
2
1
0
−1
−2

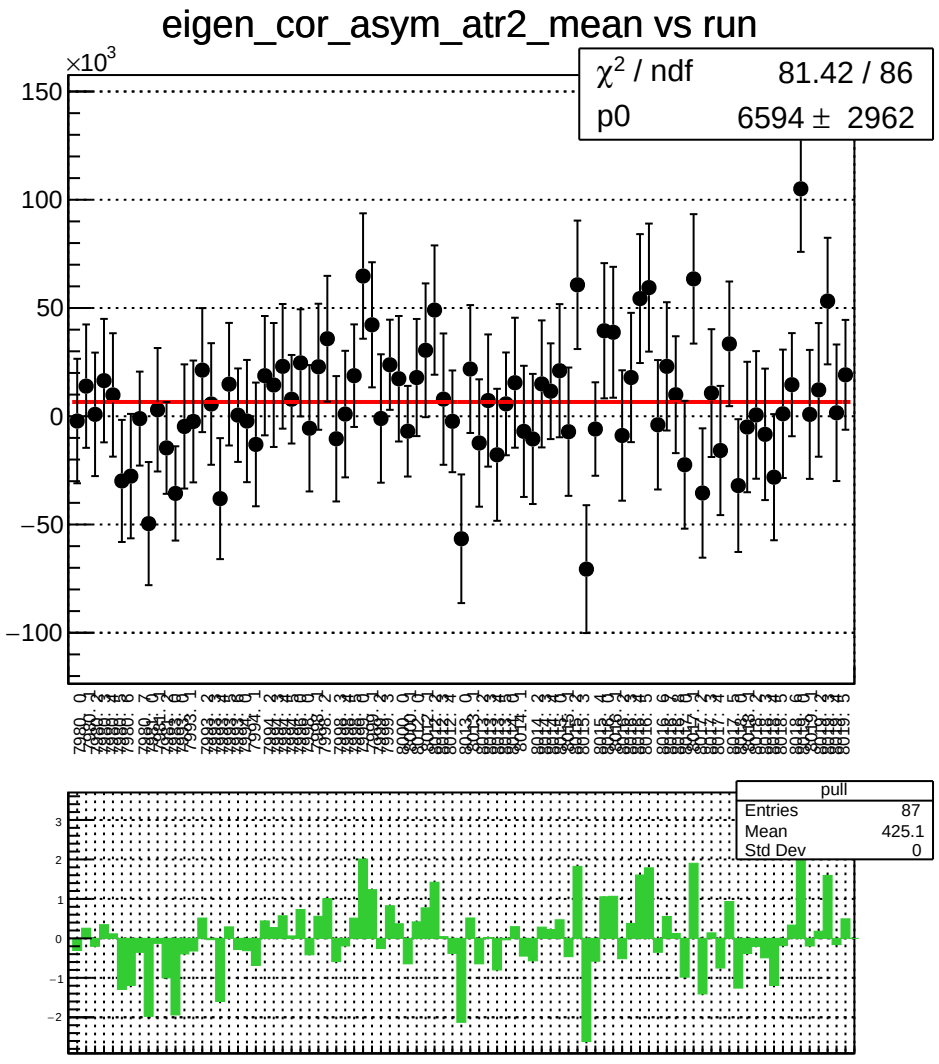

pull1D
Entries 87
Mean 0.0126
Std Dev 0.9673
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

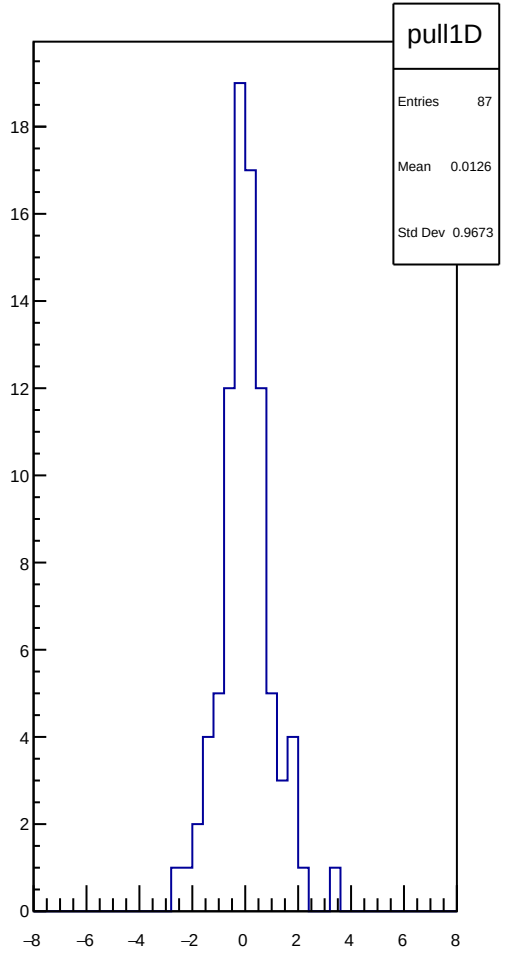

cor_asym_atr2_rms vs run
χ² / ndf 1526 / 86
p0 2778 ± 2.094
3000
2900
2800
2700
2600

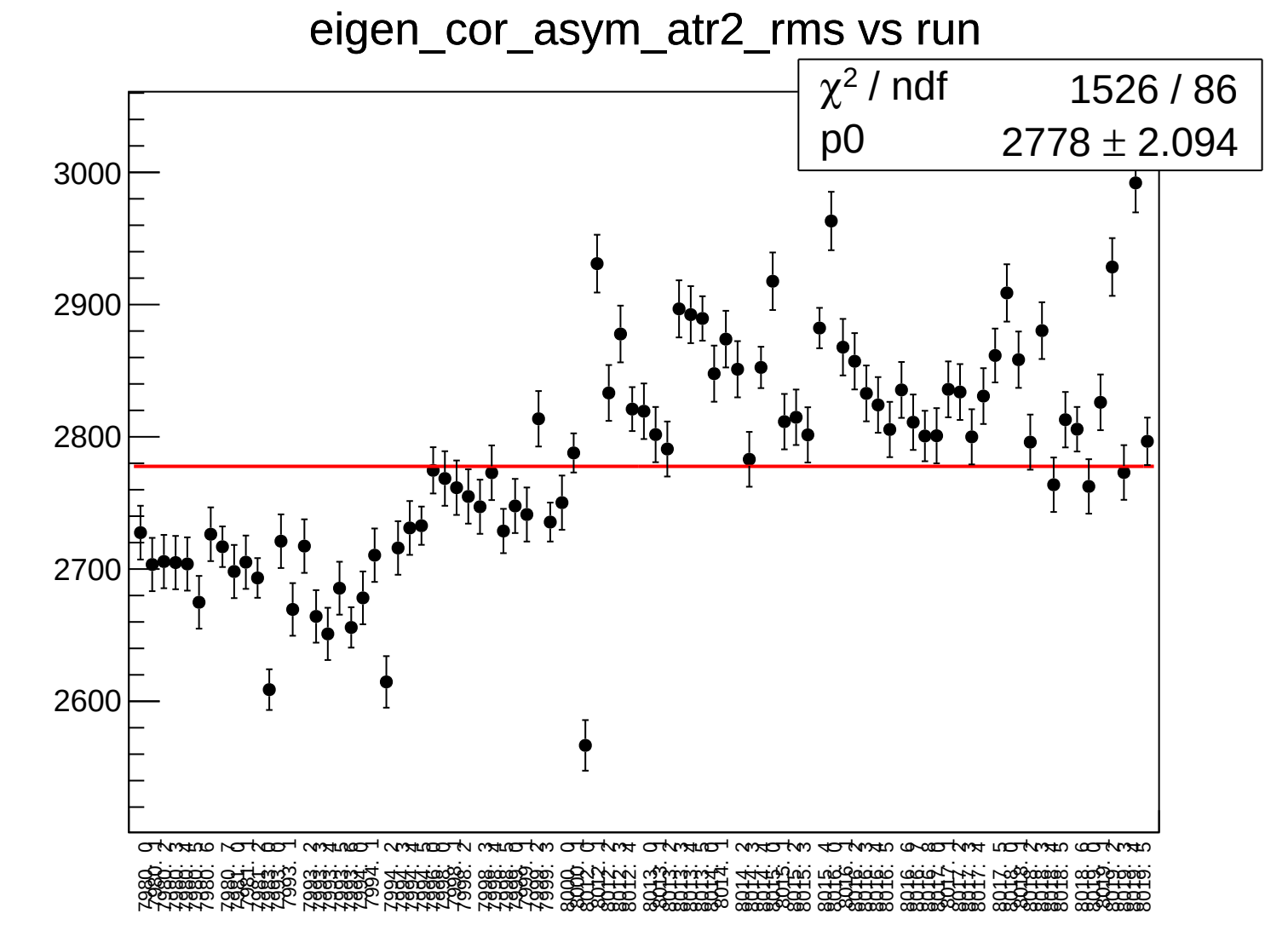

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 91.93 / 86
p0 −2.787e+04 ± 1.487e+04
pull
Entries 87
Mean 1157
Std Dev 0

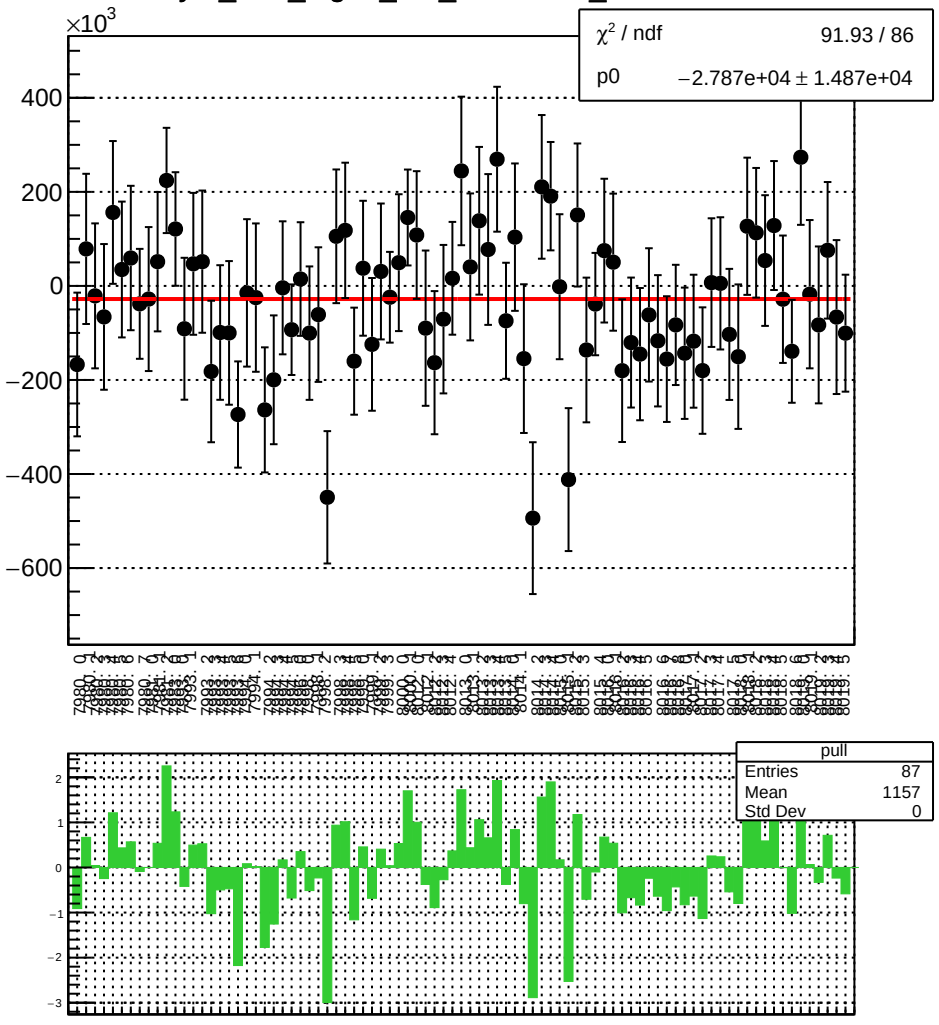

pull1D
Entries 87
Mean −0.0003483
Std Dev 1.028

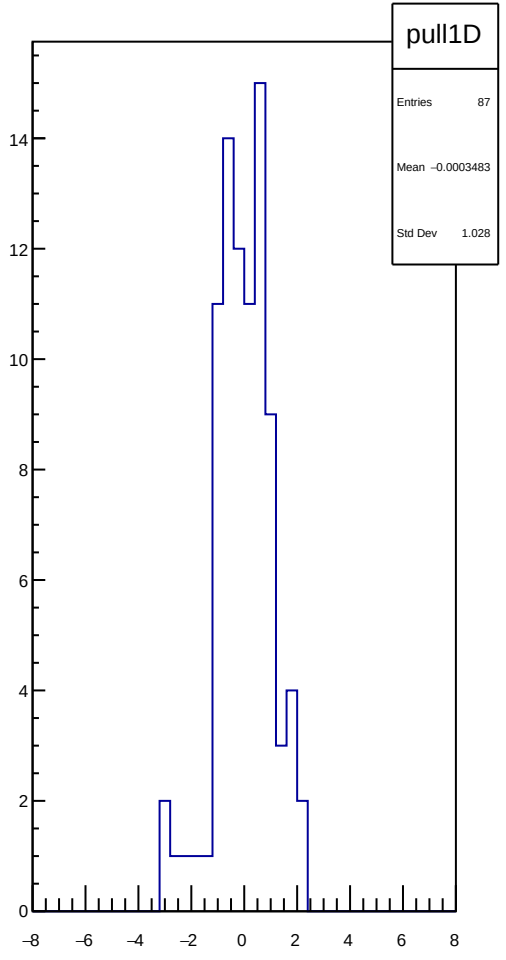

asym_atr2_cor_correction_rms vs run
χ² / ndf 5495 / 86
p0 1.393e+04 ± 10.51
16000
15500
15000
14500
14000
13500
13000
12500

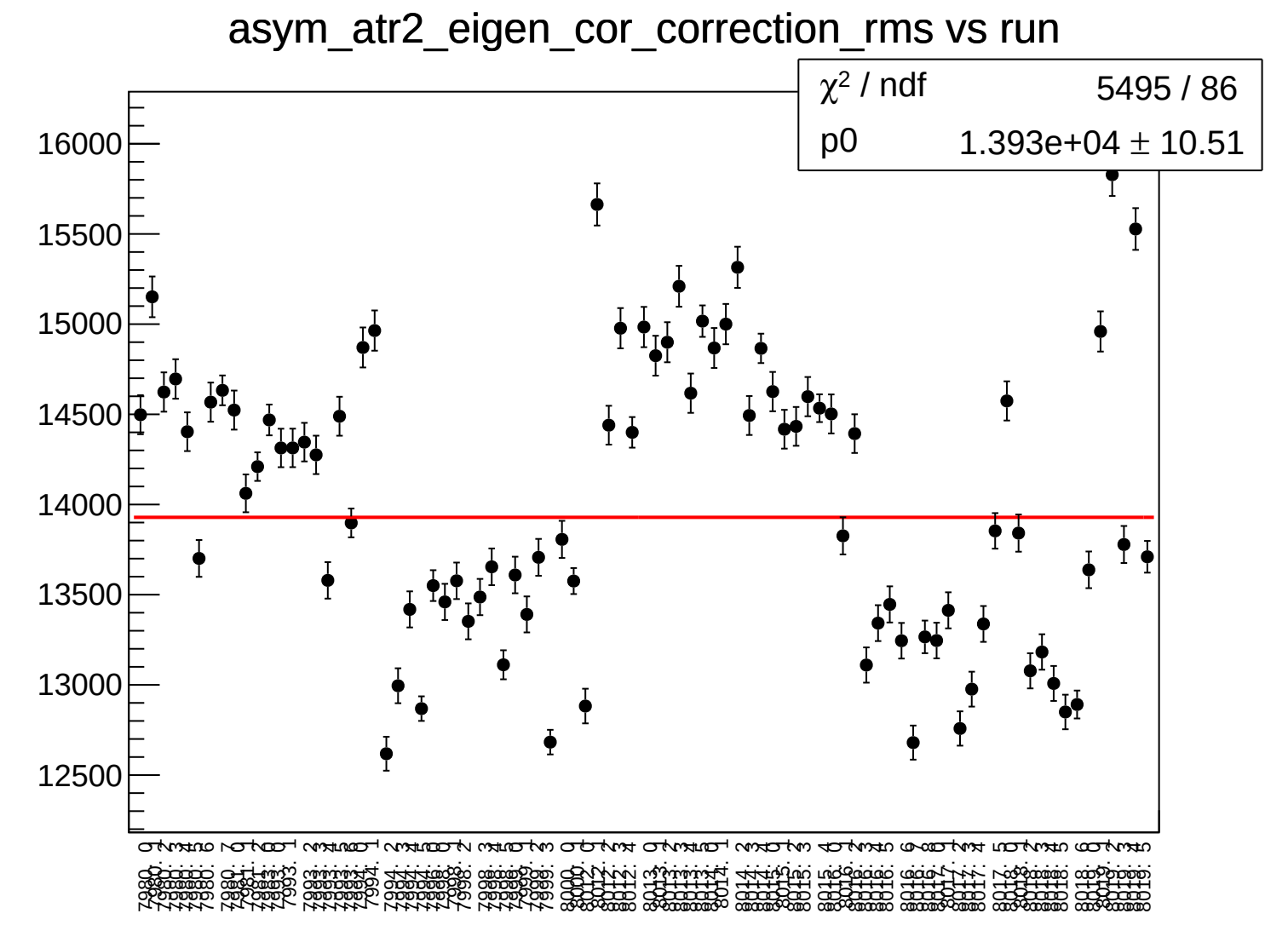

eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 81.42 / 86
p0 6594 ± 2962
150
100
50
0
−50
−100
pull
Entries 87
Mean 425.1
Std Dev 0
3
2
1
0
−1
−2

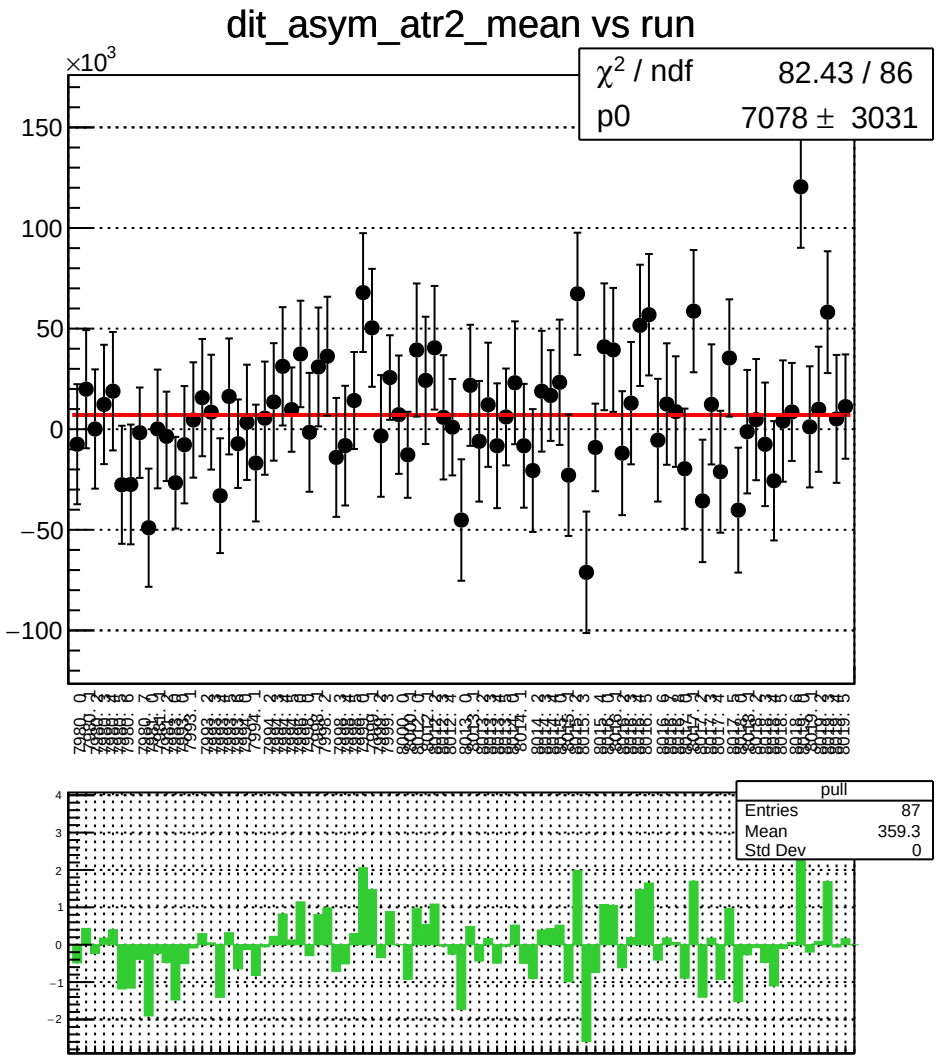

pull1D
Entries 87
Mean 0.0126
Std Dev 0.9673
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

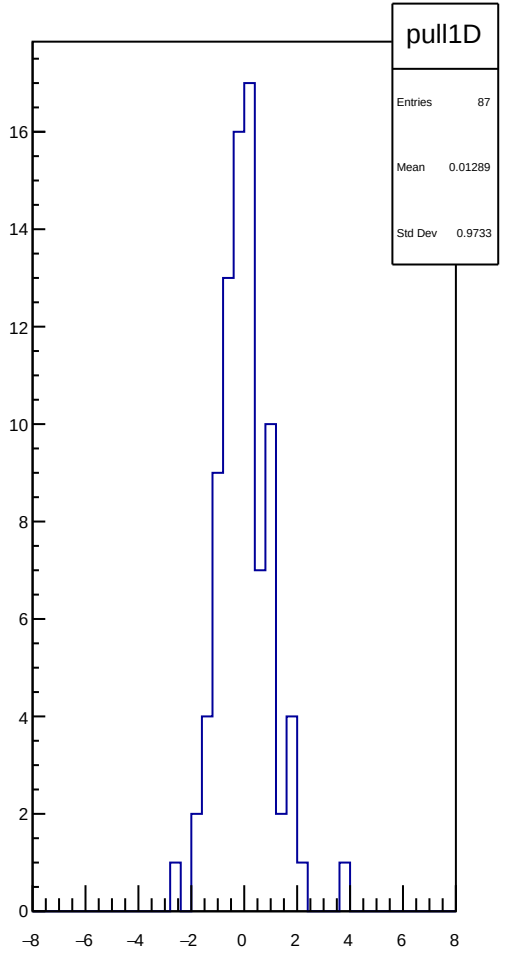

eigen_cor_asym_atr2_rms vs run
χ² / ndf 1526 / 86
p0 2778 ± 2.094
3000
2900
2800
2700
2600

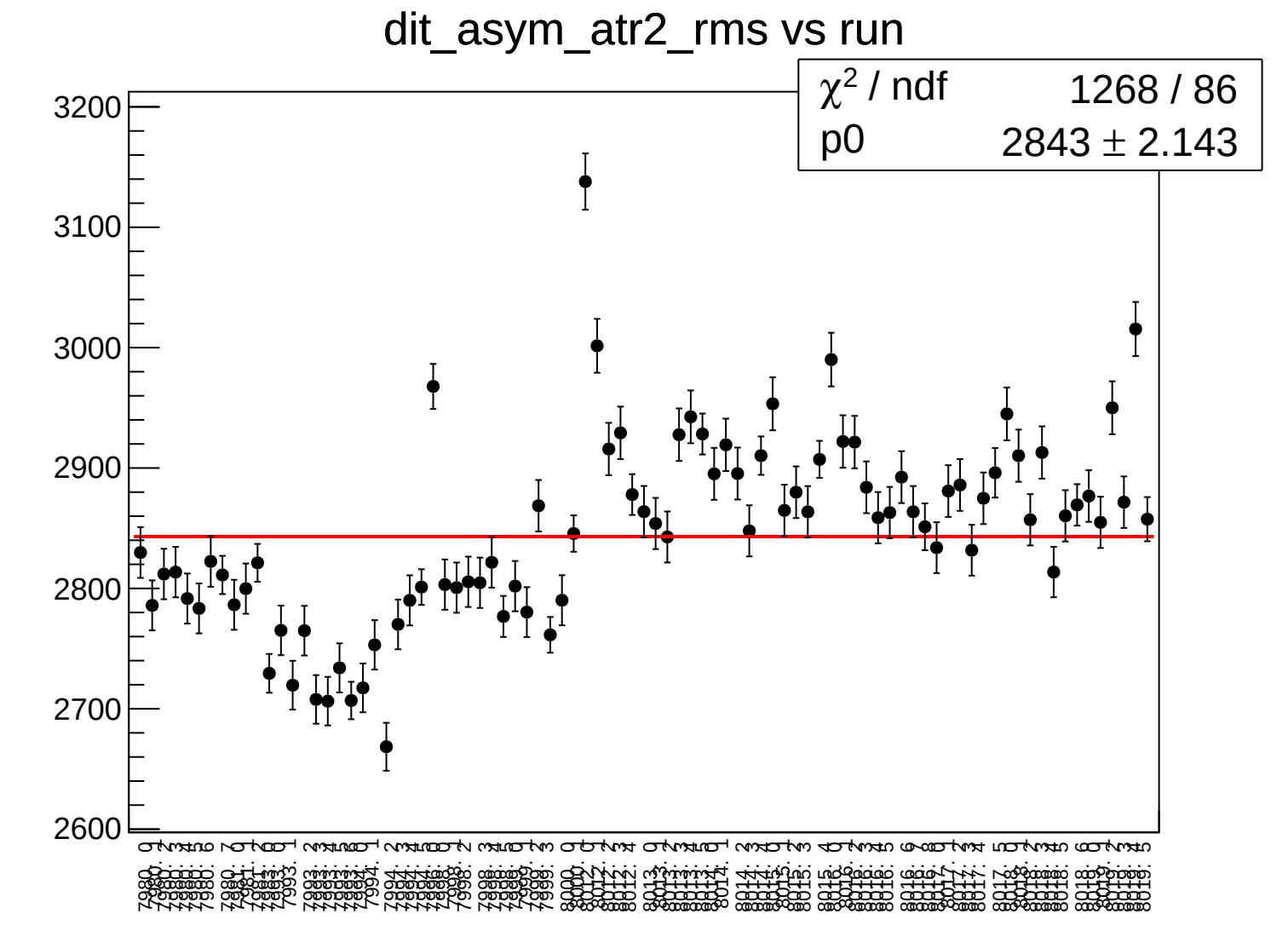

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.93 / 86
p0 −2.787e+04 ± 1.487e+04
400
200
0
−200
−400
−600
pull
Entries 87
Mean 1157
Std Dev 0
2
1
0
−1
−2
−3

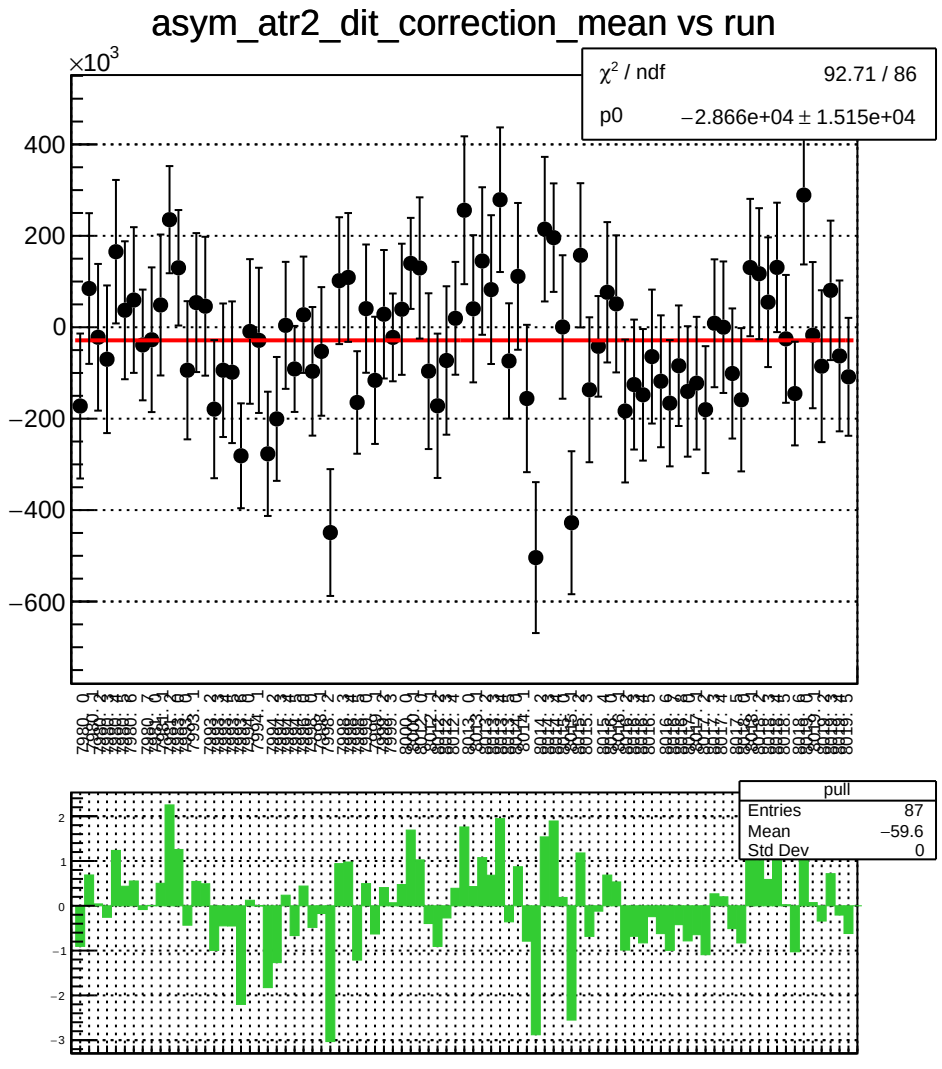

pull1D
Entries 87
Mean −0.0003483
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

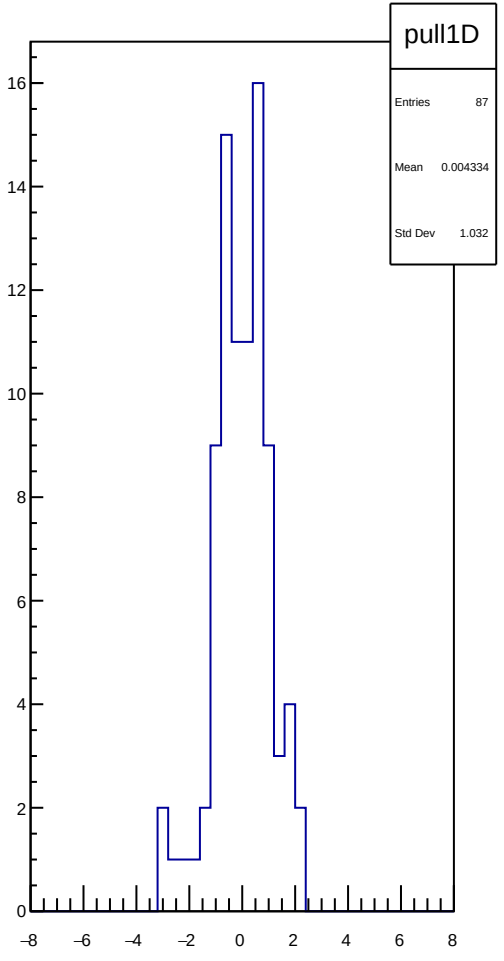

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 5495 / 86
p0 1.393e+04 ± 10.51
16000
15500
15000
14500
14000
13500
13000
12500

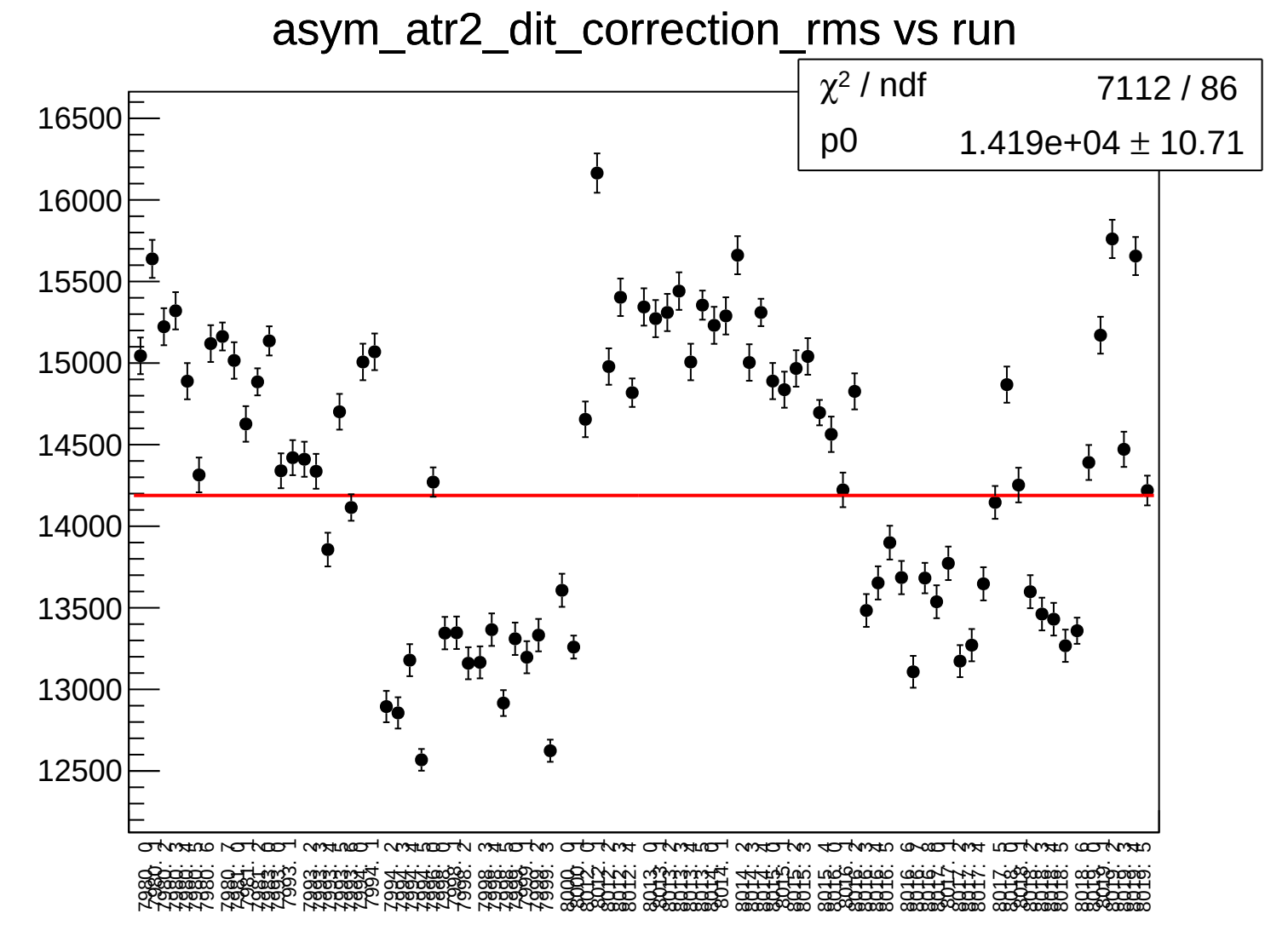

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 82.43 / 86
p0 7078 ± 3031
150
100
50
0
−50
−100
pull
Entries 87
Mean 359.3
Std Dev 0
4
3
2
1
0
−1
−2

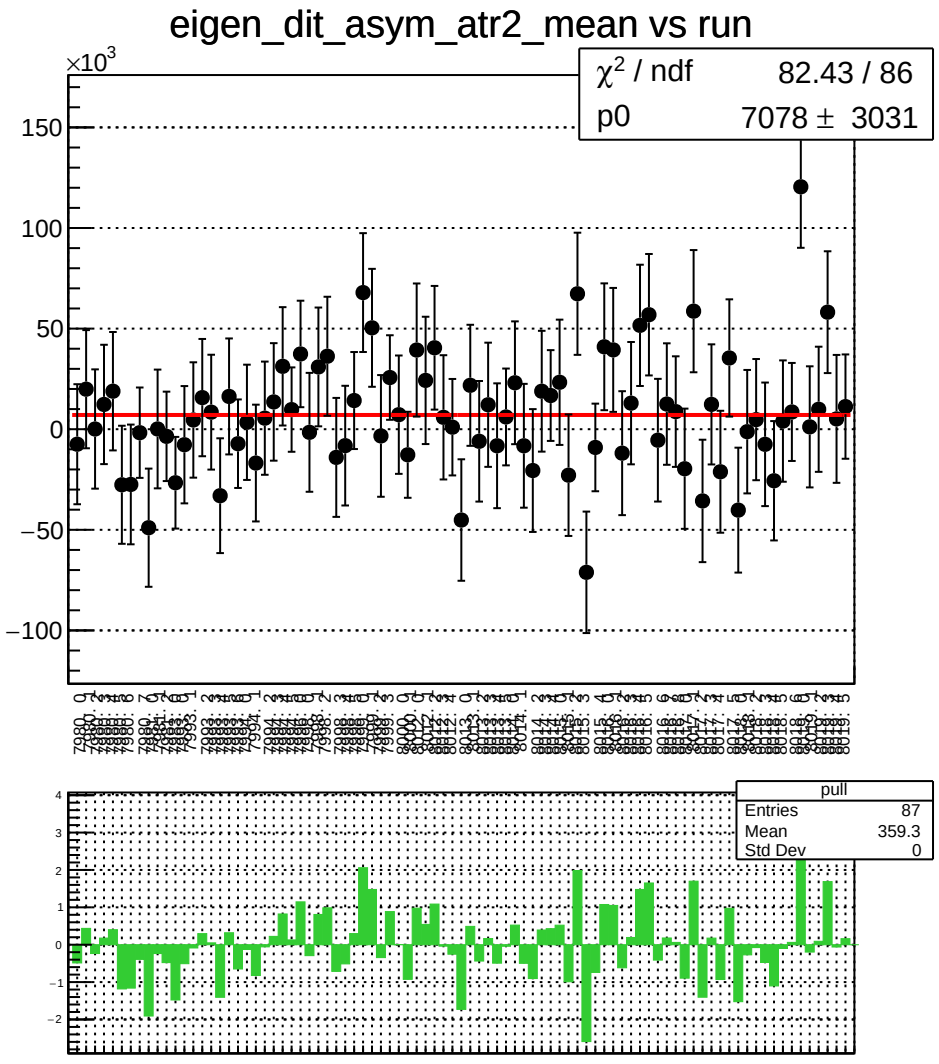

pull1D
Entries 87
Mean 0.01289
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

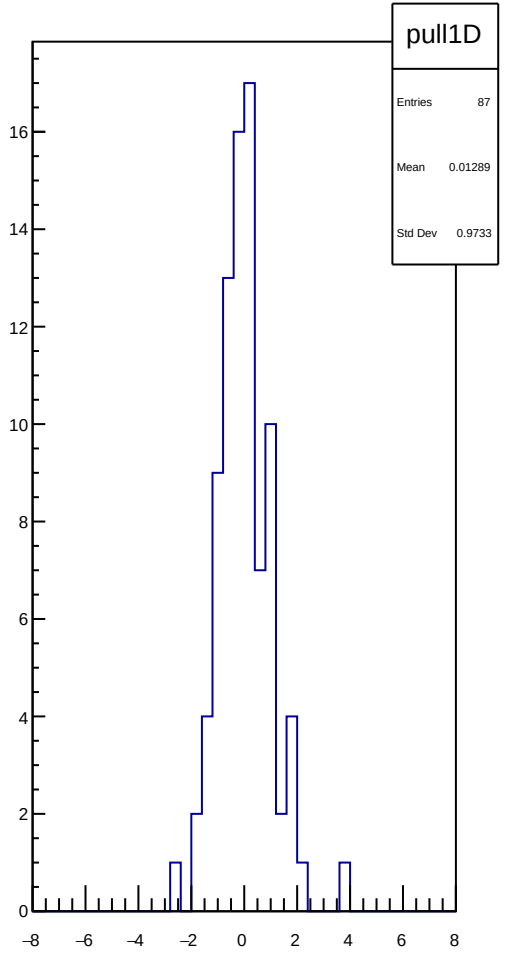

dit_asym_atr2_rms vs run
χ² / ndf 1268 / 86
p0 2843 ± 2.143
3200
3100
3000
2900
2800
2700
2600

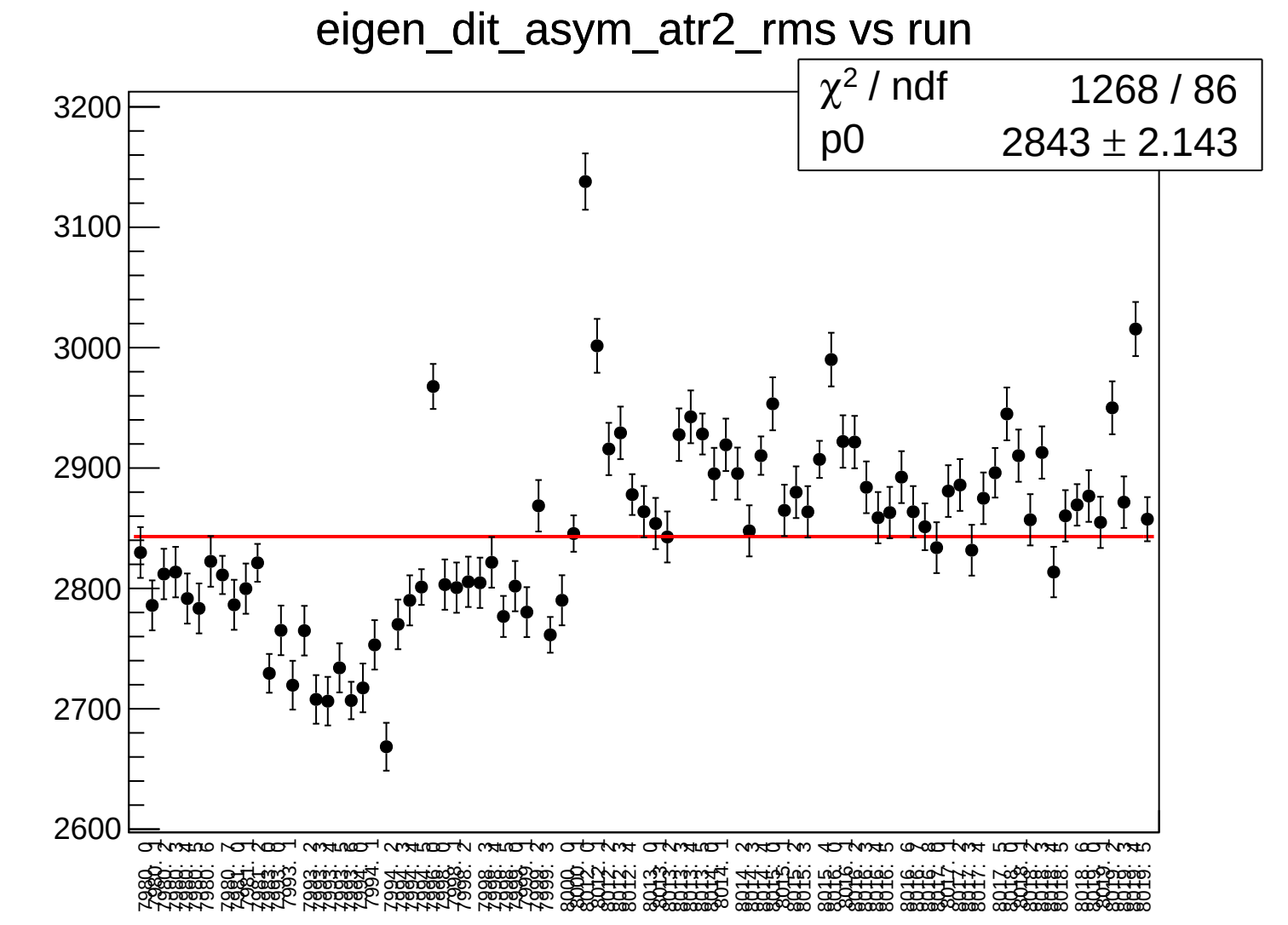

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 92.71 / 86
p0 −2.866e+04 ± 1.515e+04
400
200
0
−200
−400
−600
pull
Entries 87
Mean −59.6
Std Dev 0
2
1
0
−1
−2
−3

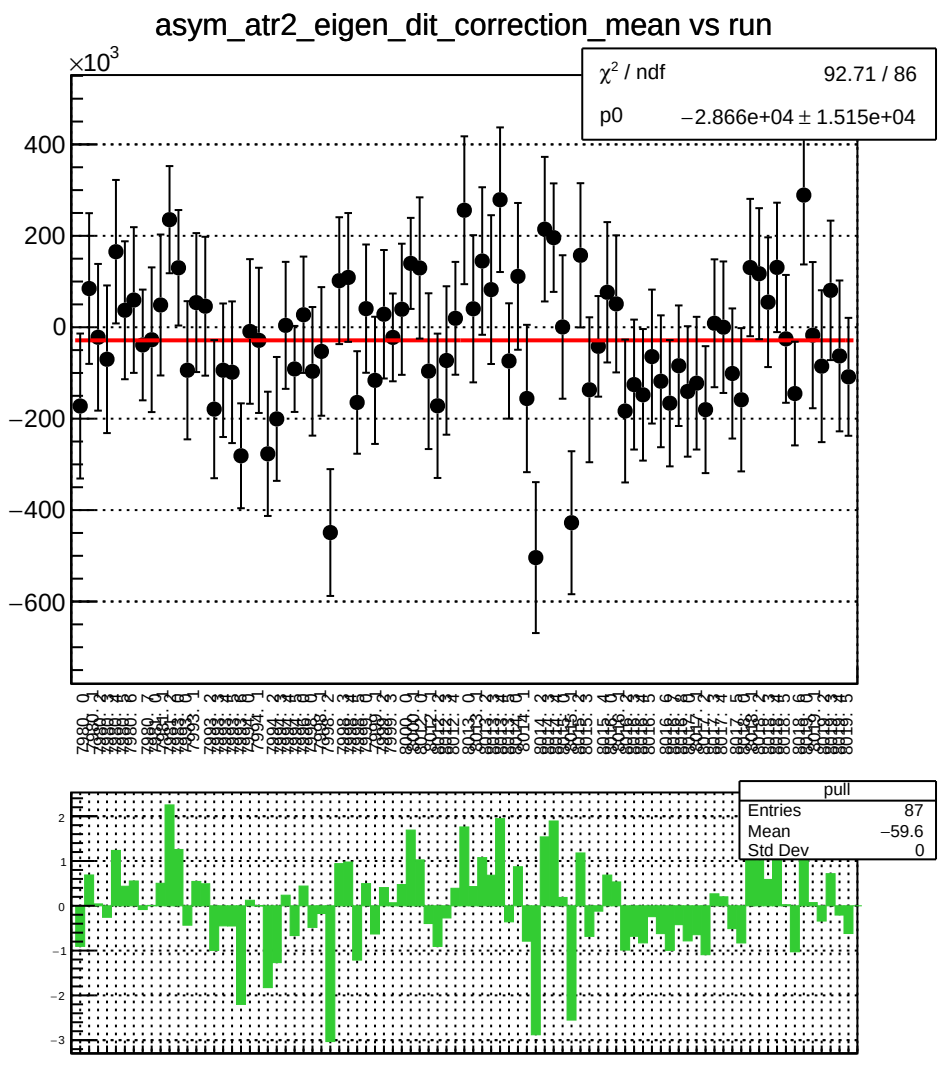

pull1D
Entries 87
Mean 0.004334
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

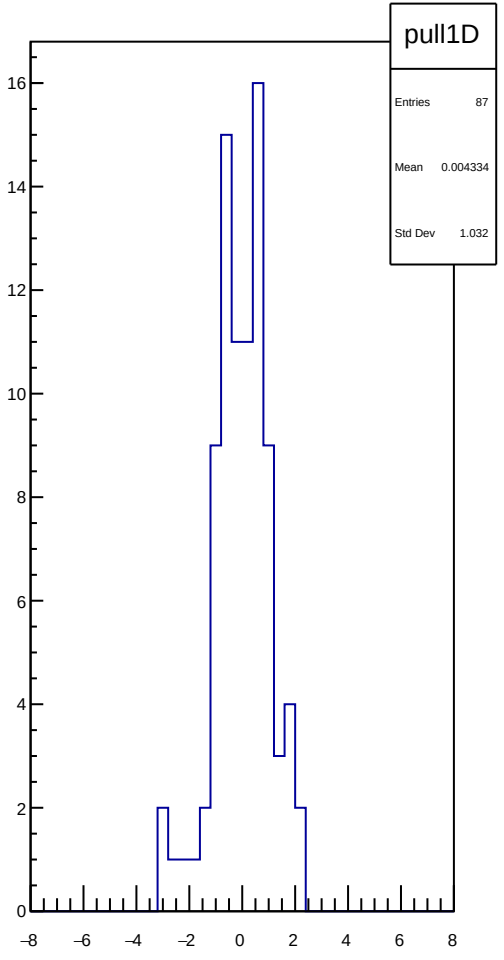

asym_atr2_dit_correction_rms vs run
χ² / ndf 7112 / 86
p0 1.419e+04 ± 10.71
16500
16000
15500
15000
14500
14000
13500
13000
12500


eigen_dit_asym_atr2_mean vs run
χ² / ndf 82.43 / 86
p0 7078 ± 3031
×10³
150
100
50
0
−50
−100
pull
Entries 87
Mean 359.3
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 87
Mean 0.01289
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atr2_rms vs run
χ² / ndf 1268 / 86
p0 2843 ± 2.143
3200
3100
3000
2900
2800
2700
2600


asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.71 / 86
p0 −2.866e+04 ± 1.515e+04
400
200
0
−200
−400
−600
pull
Entries 87
Mean −59.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean 0.004334
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
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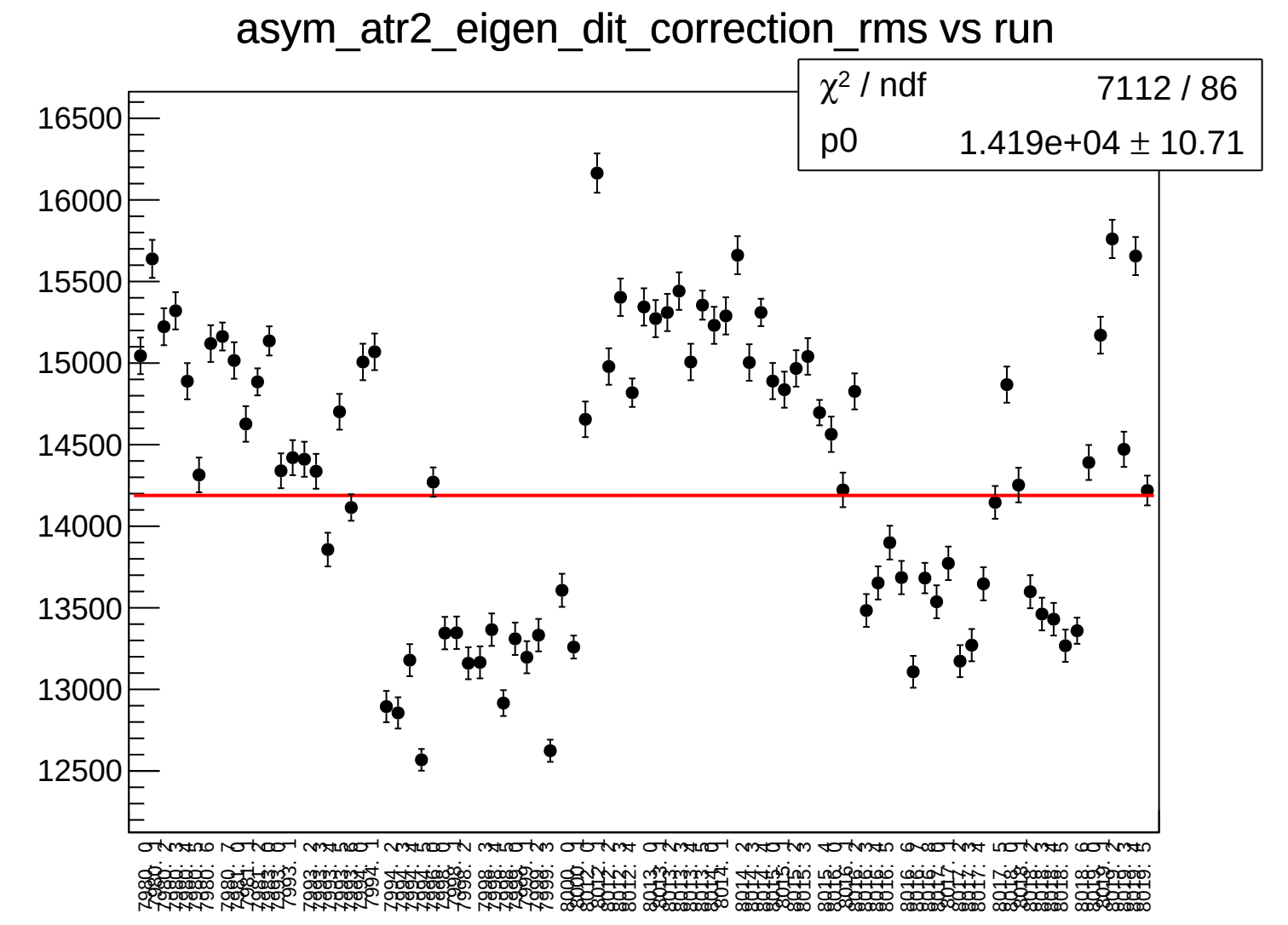
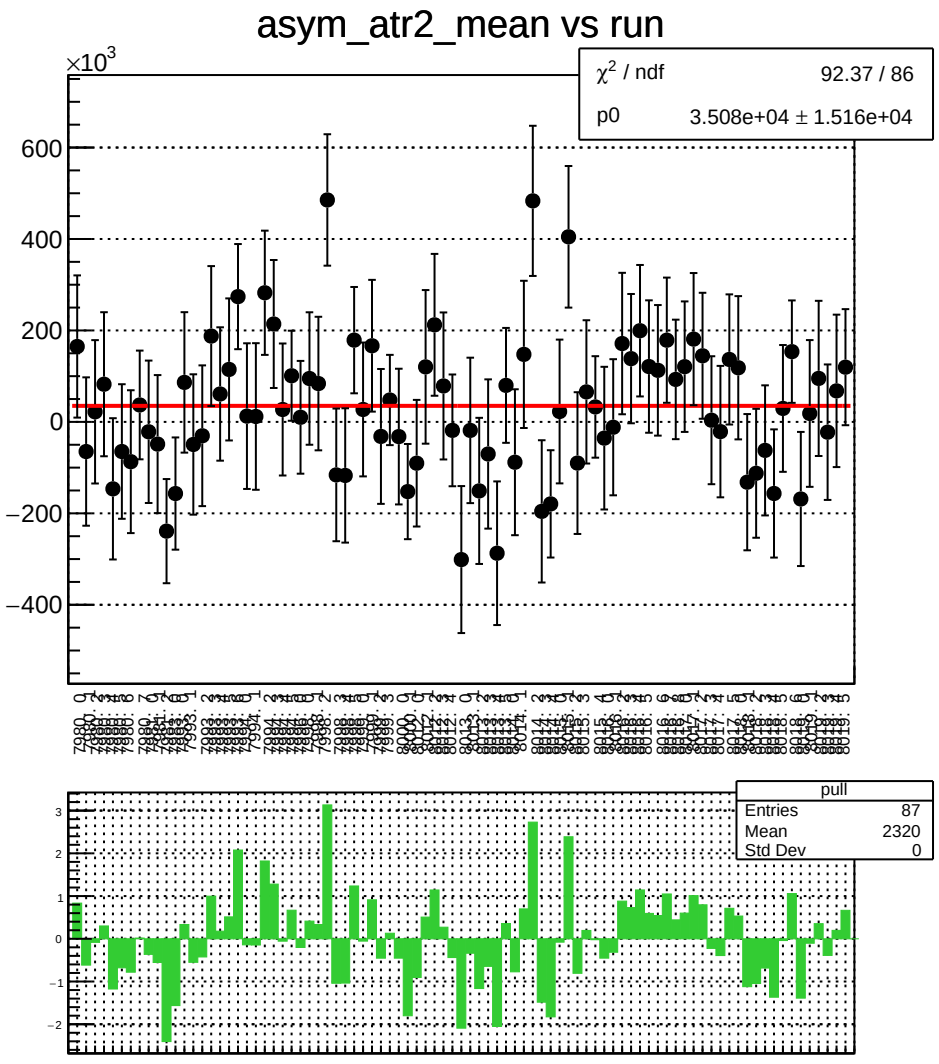
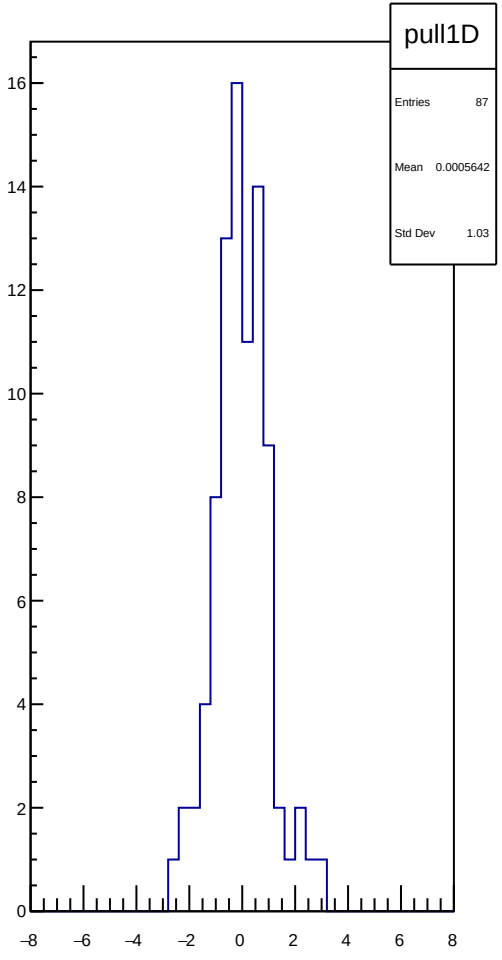
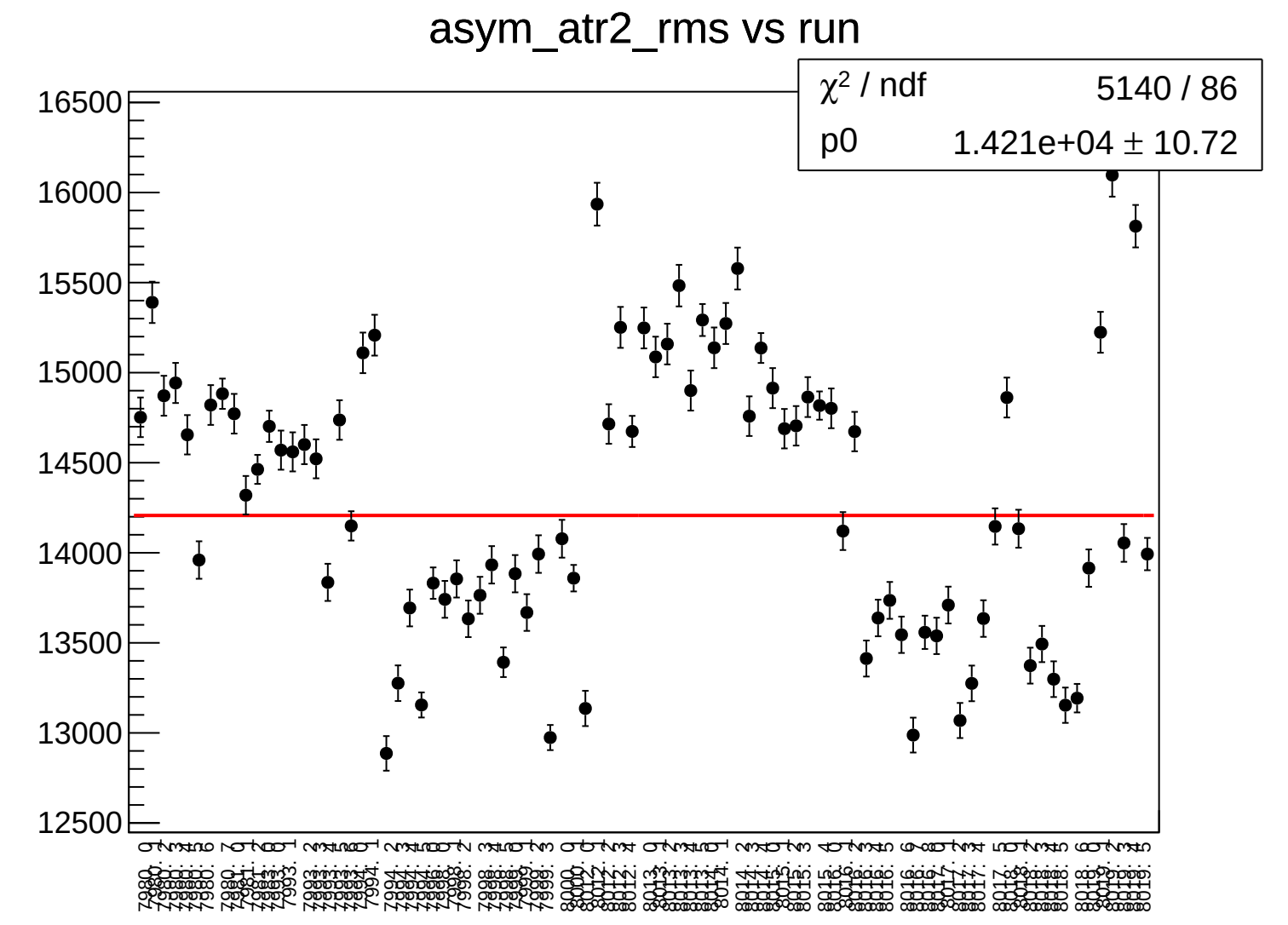
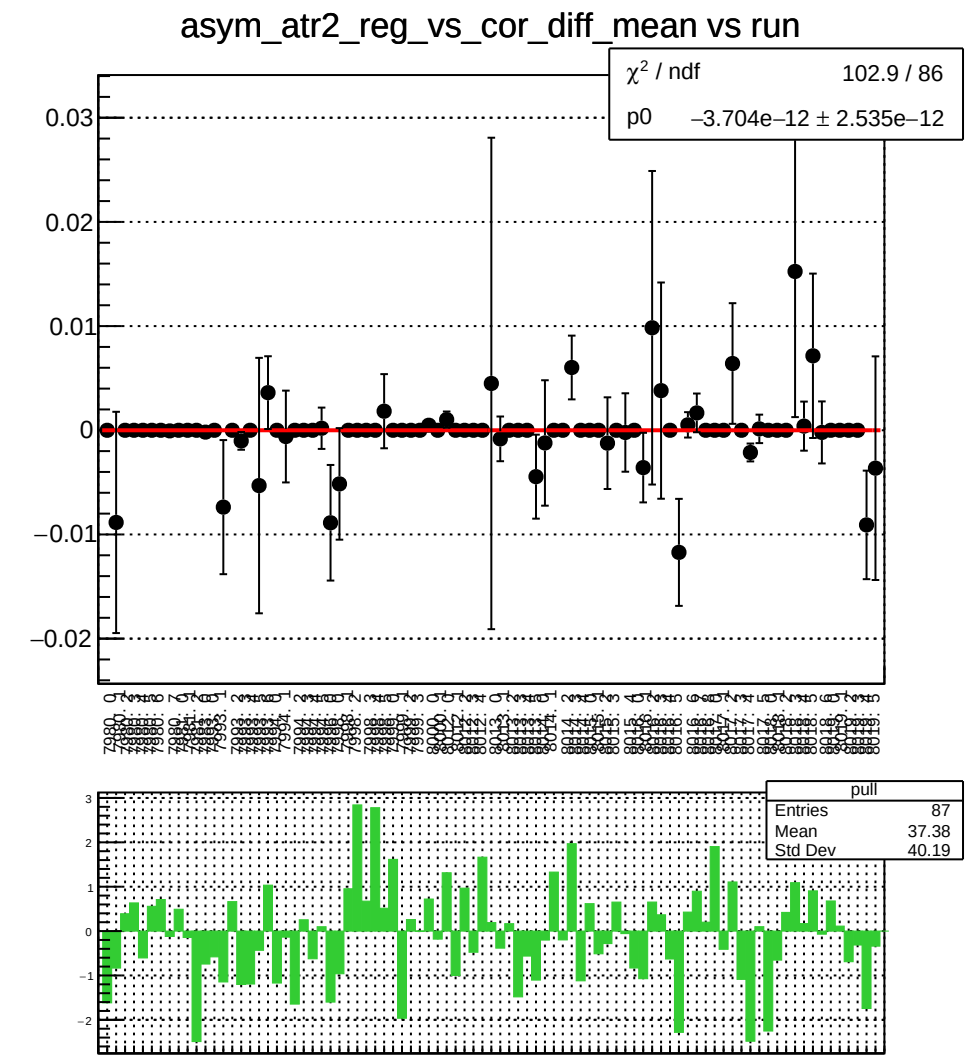
0
2
4
6
8

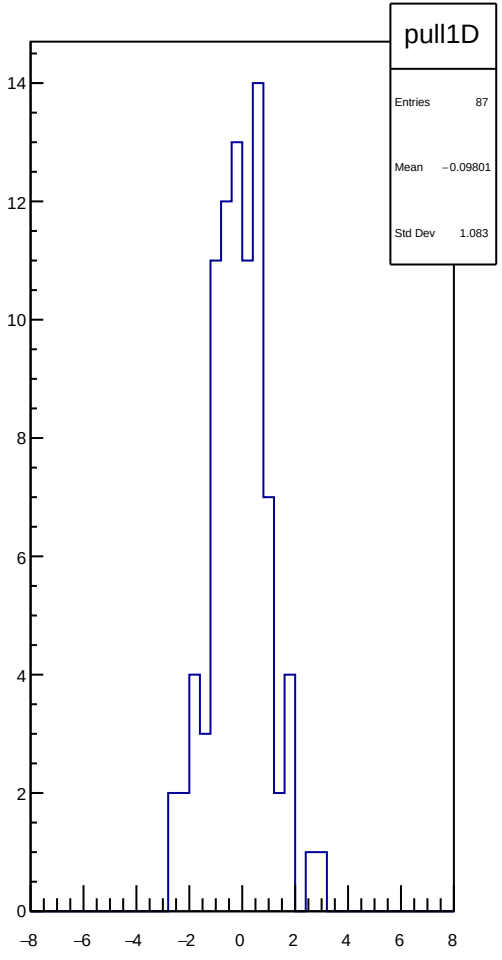

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 7112 / 86
p0 1.419e+04 ± 10.71
16500
16000
15500
15000
14500
14000
13500
13000
12500

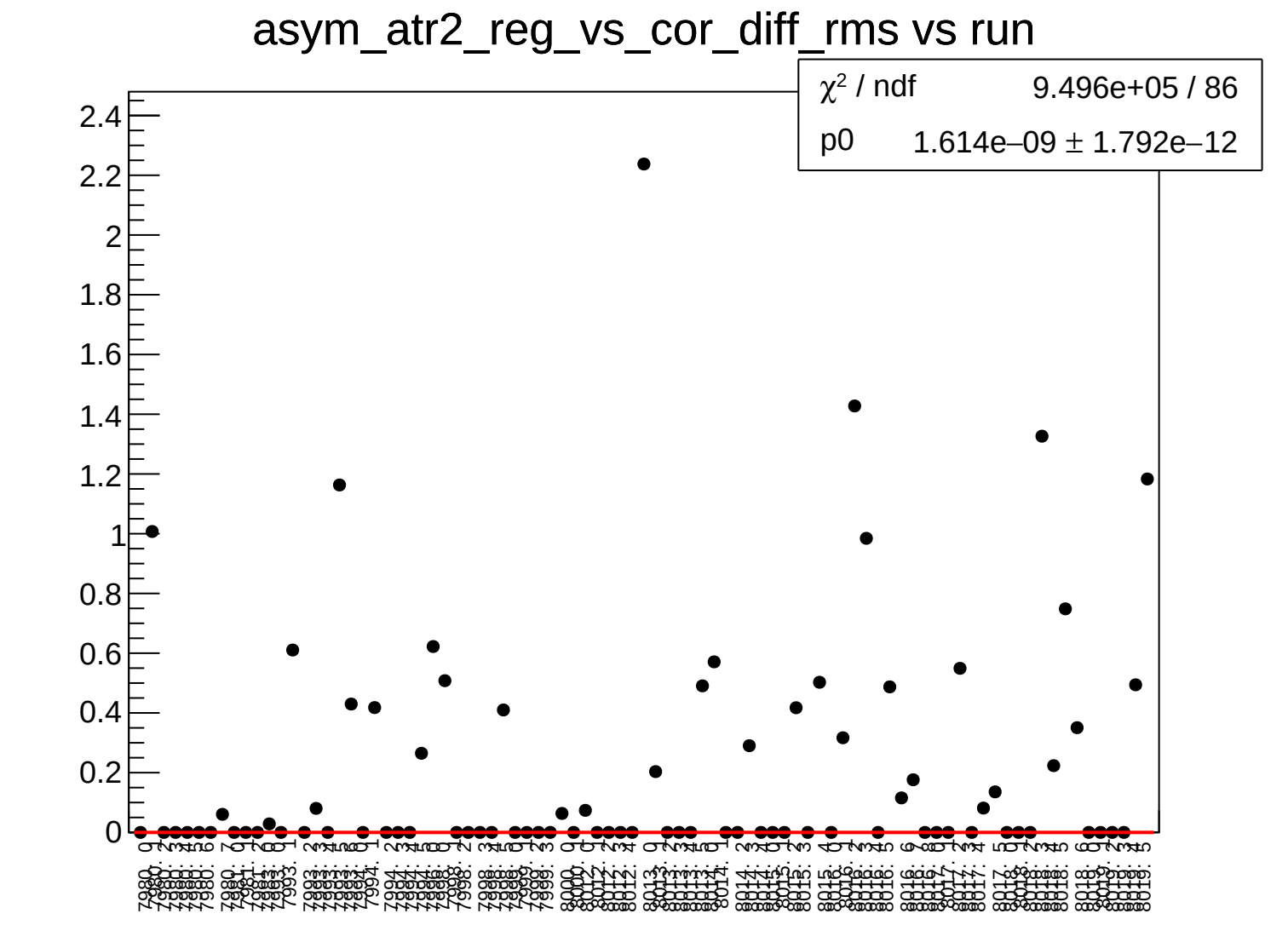

asym_atr2_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 92.37 / 86
p0 3.508e+04 ± 1.516e+04
pull
Entries 87
Mean 2320
Std Dev 0
3
2
1
0
−1
−2

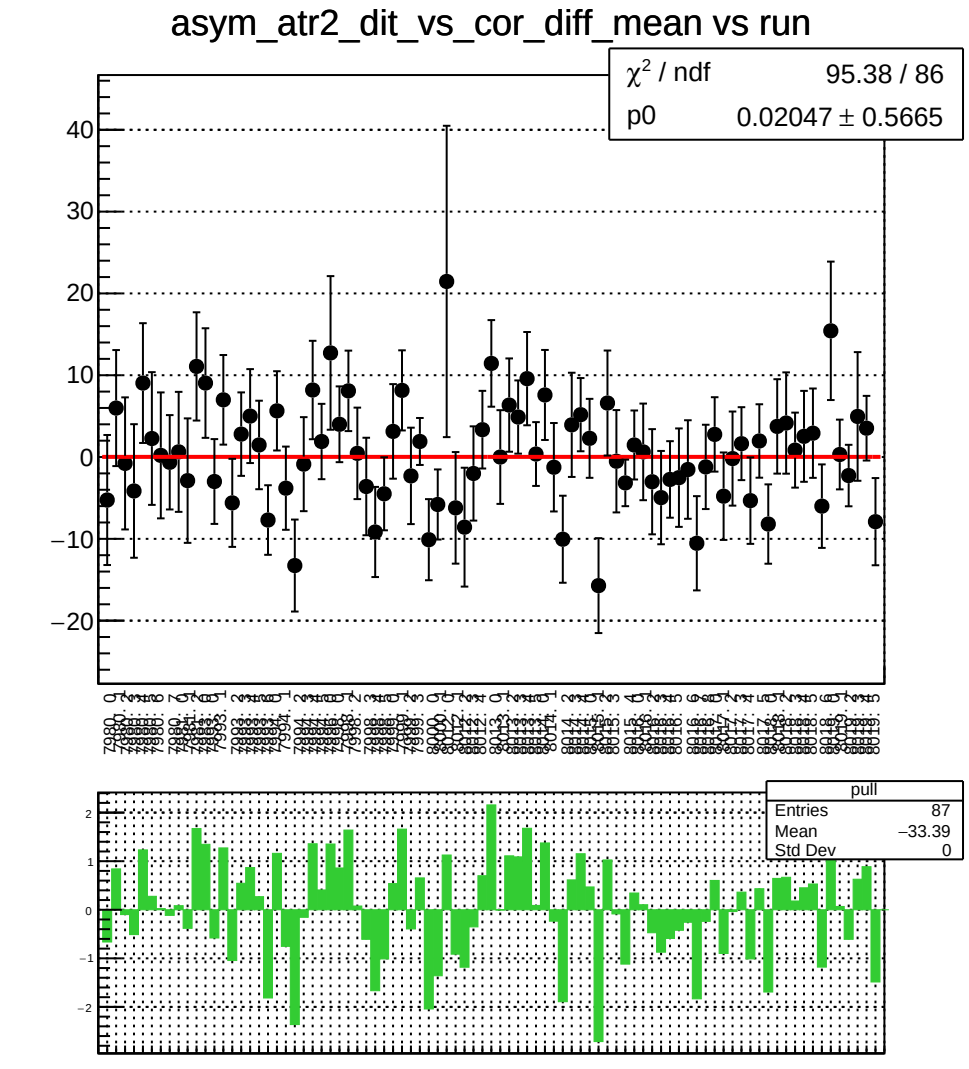

pull1D
Entries 87
Mean 0.0005642
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

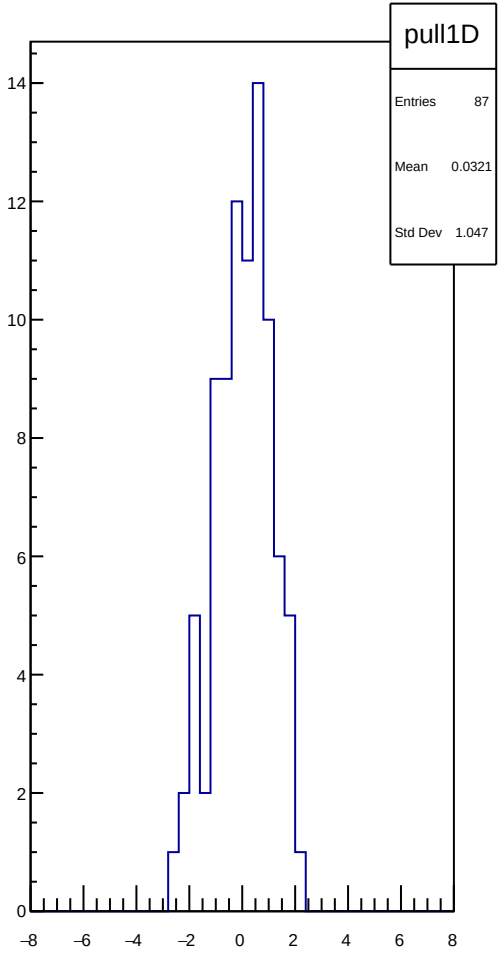

asym_atr2_rms vs run
χ² / ndf 5140 / 86
p0 1.421e+04 ± 10.72
16500
16000
15500
15000
14500
14000
13500
13000
12500

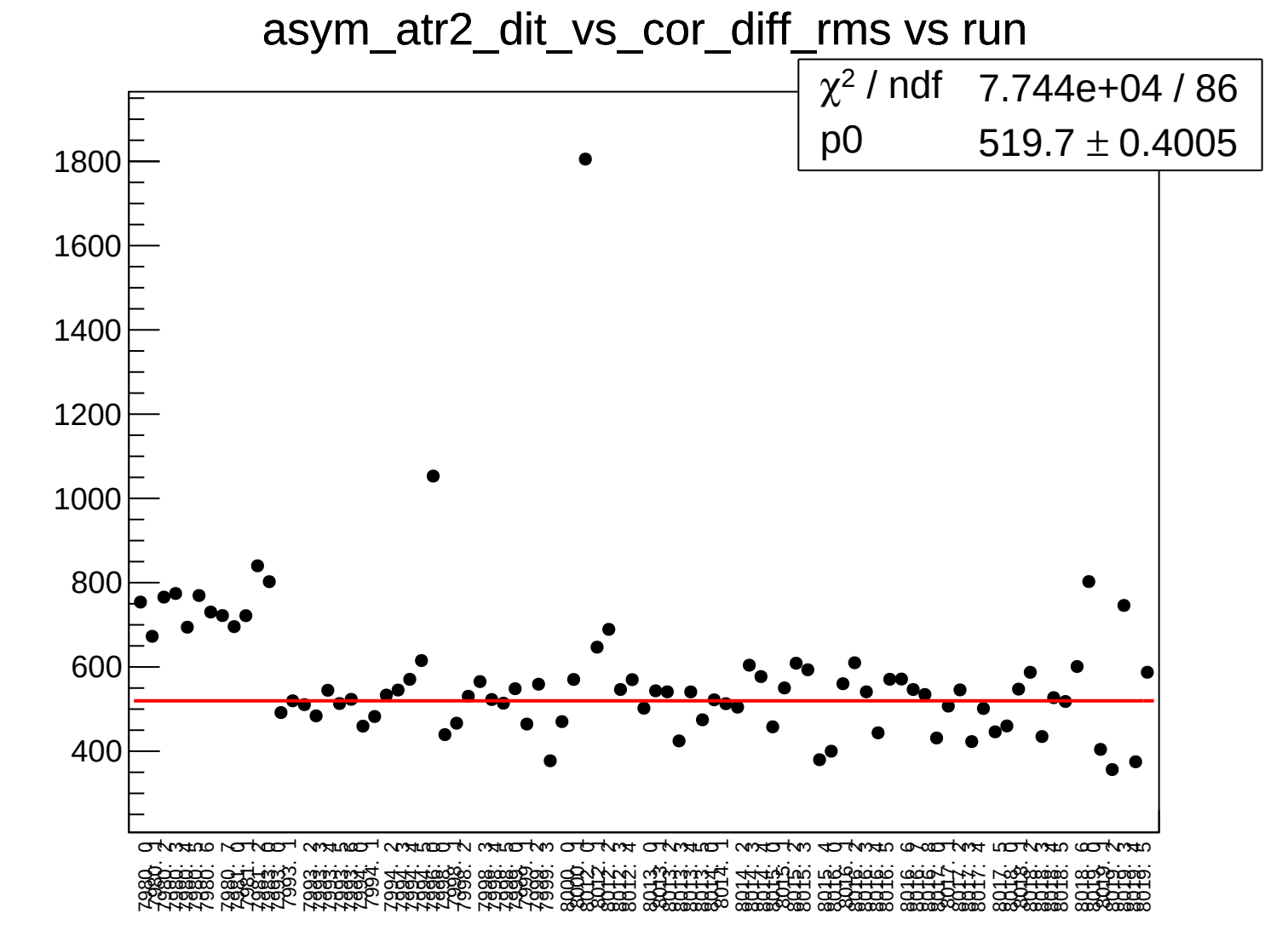

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 86
p0 −3.704e−12 ± 2.535e−12
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 37.38
Std Dev 40.19
3
2
1
0
−1
−2

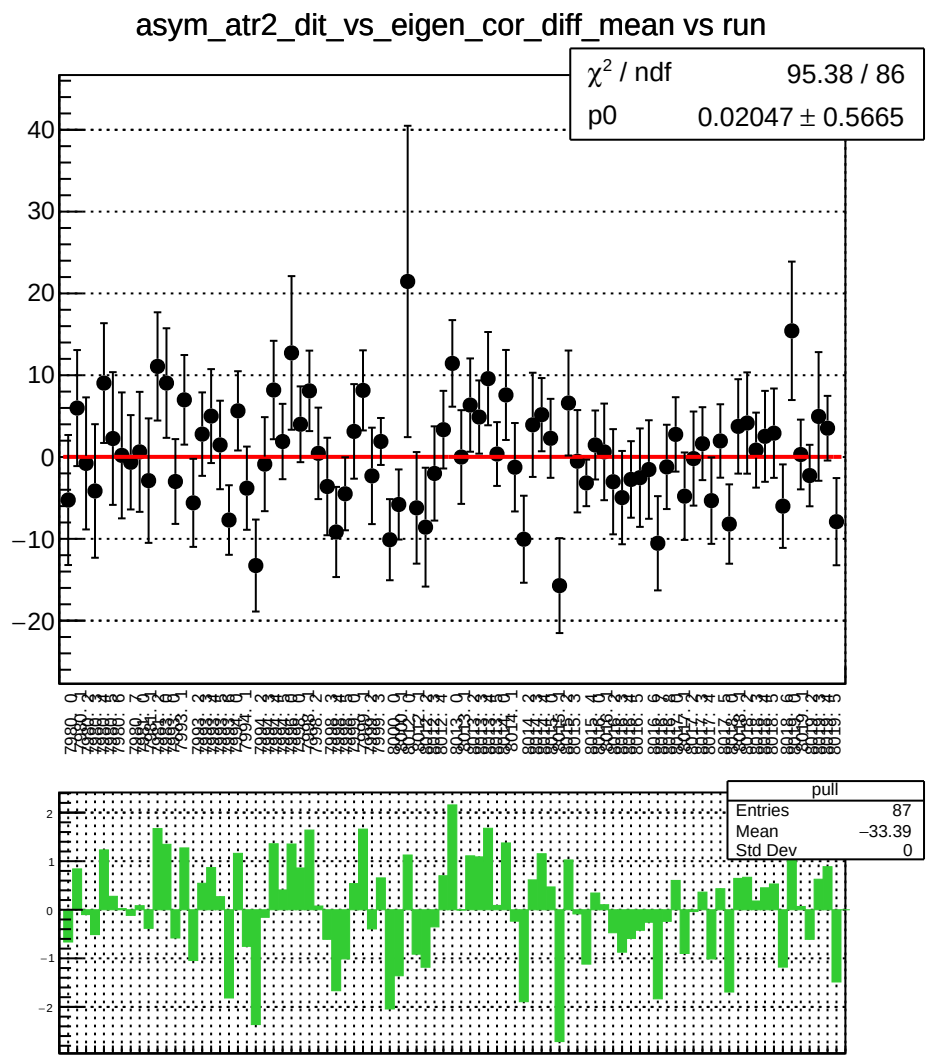

pull1D
Entries 87
Mean −0.09801
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

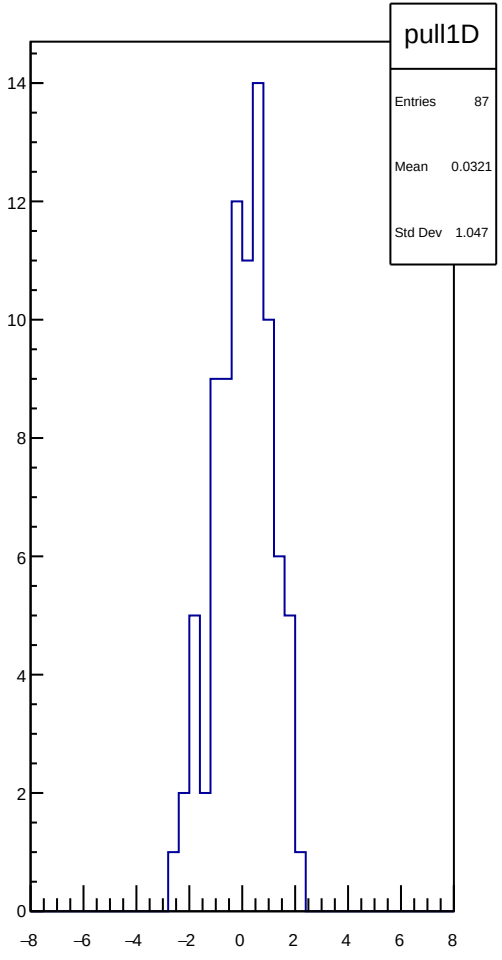

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.496e+05 / 86
p0 1.614e−09 ± 1.792e−12
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

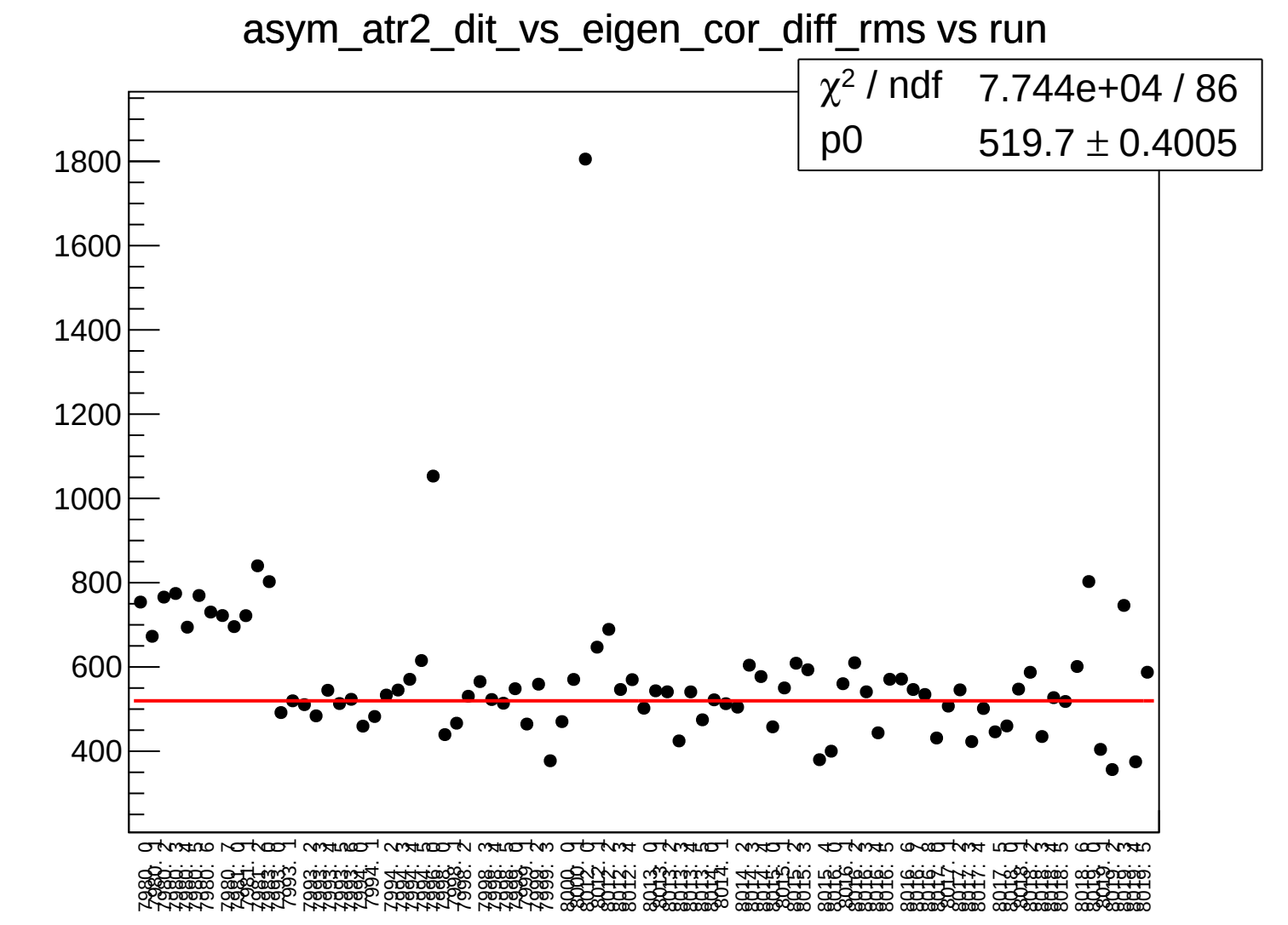

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 95.38 / 86
p0 0.02047 ± 0.5665
pull
Entries 87
Mean −33.39
Std Dev 0

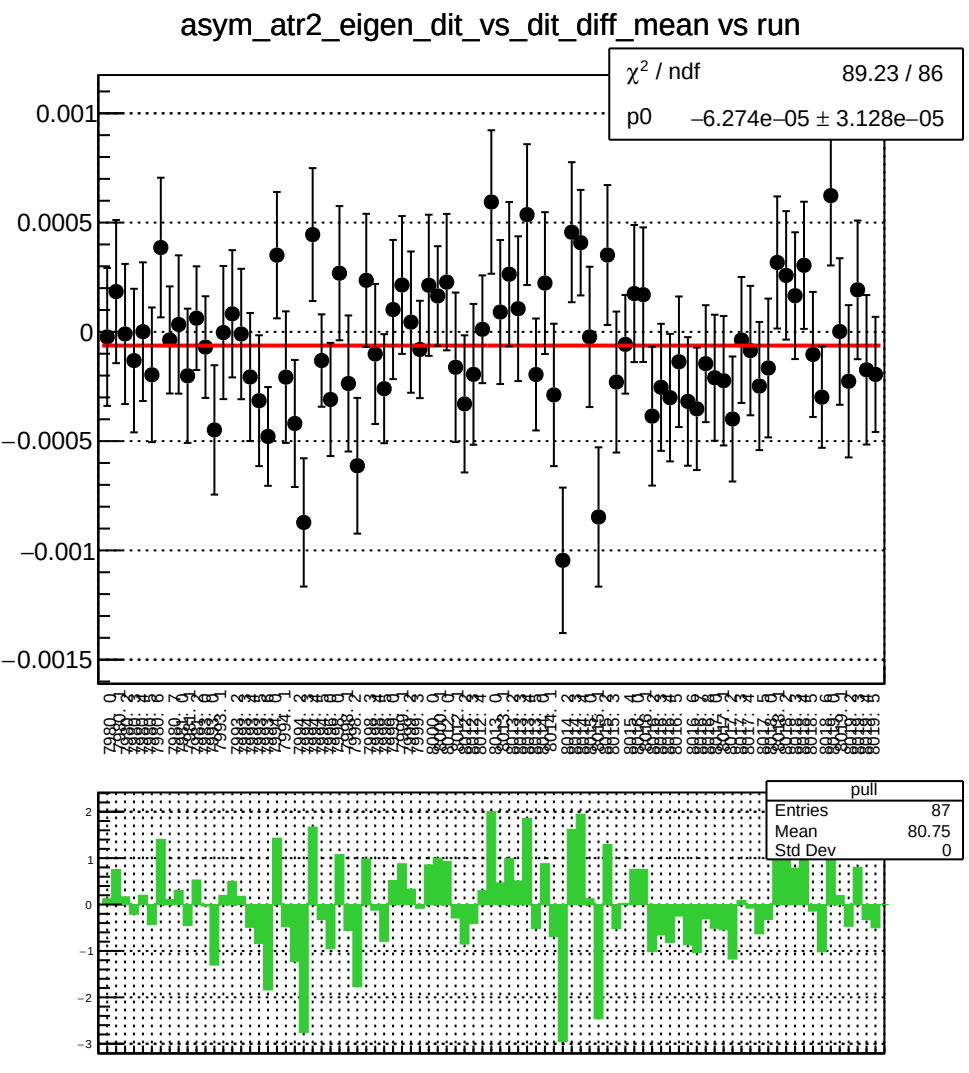

pull1D
Entries 87
Mean 0.0321
Std Dev 1.047

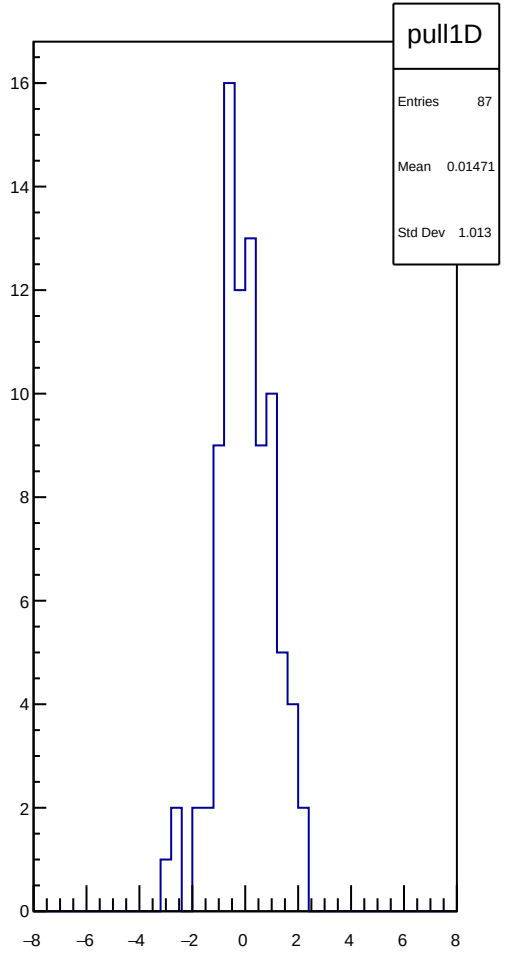

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 7.744e+04 / 86
p0 519.7 ± 0.4005
1800
1600
1400
1200
1000
800
600
400

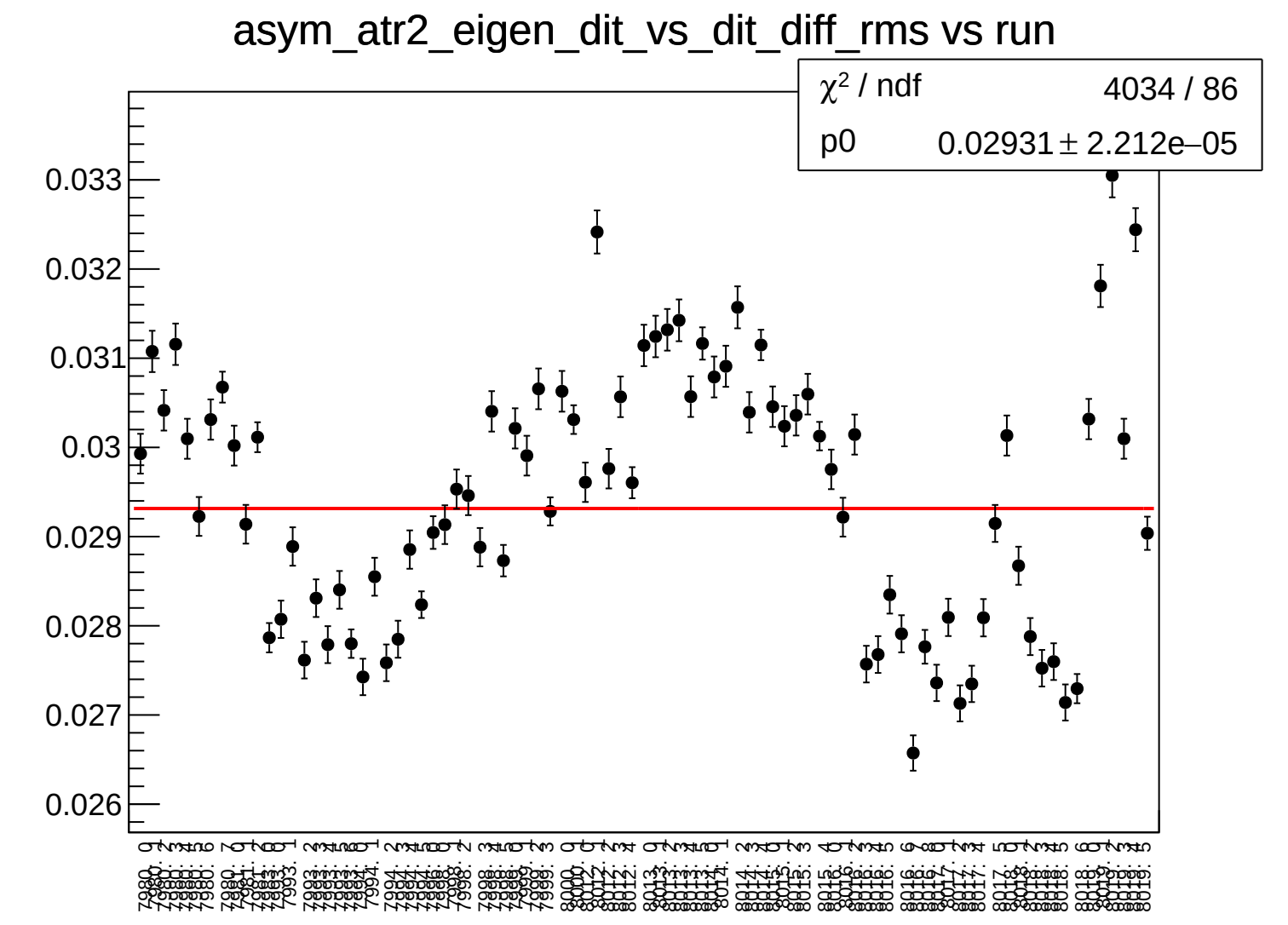

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.38 / 86
p0 0.02047 ± 0.5665
pull
Entries 87
Mean −33.39
Std Dev 0

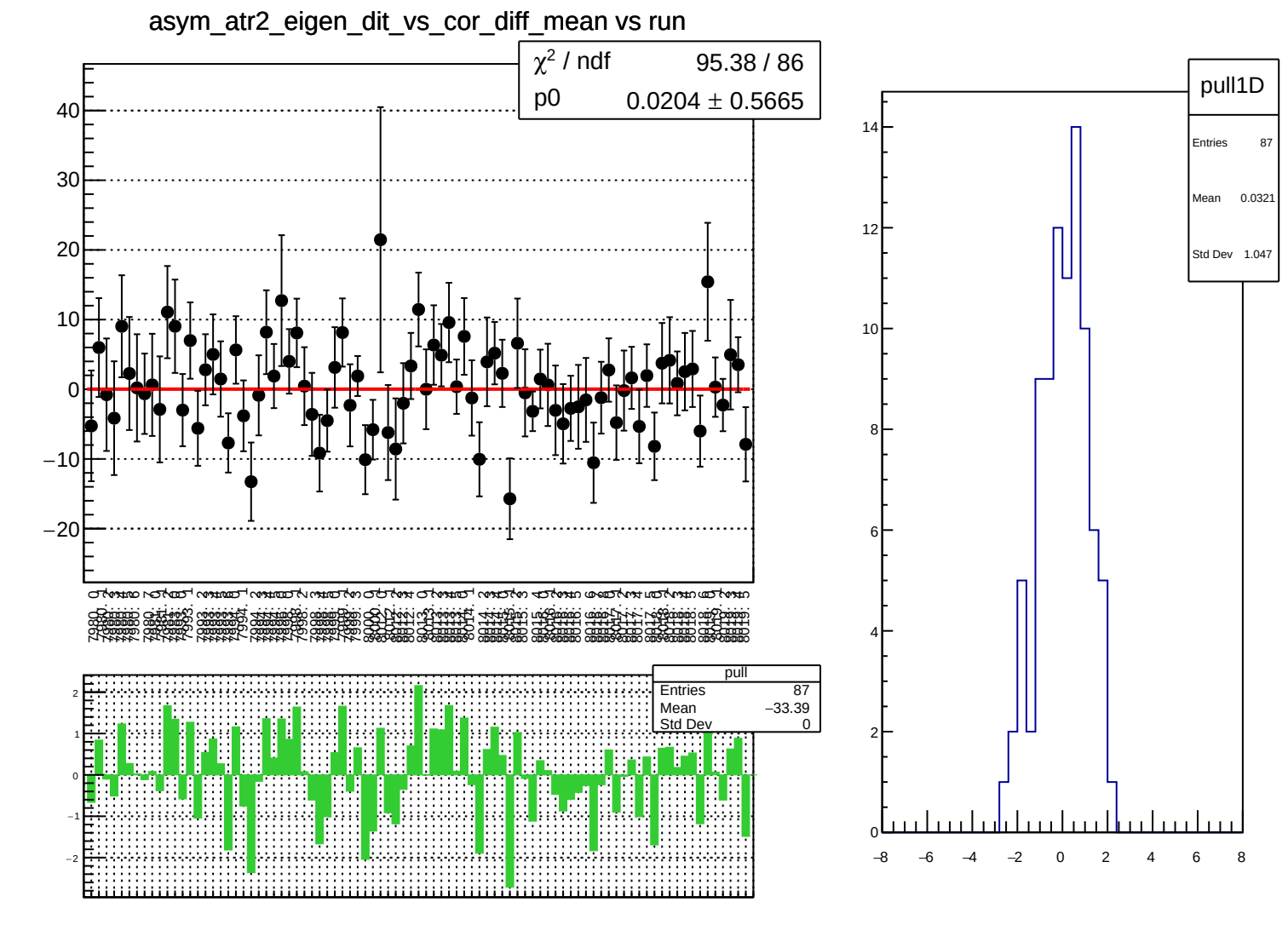

pull1D
Entries 87
Mean 0.0321
Std Dev 1.047

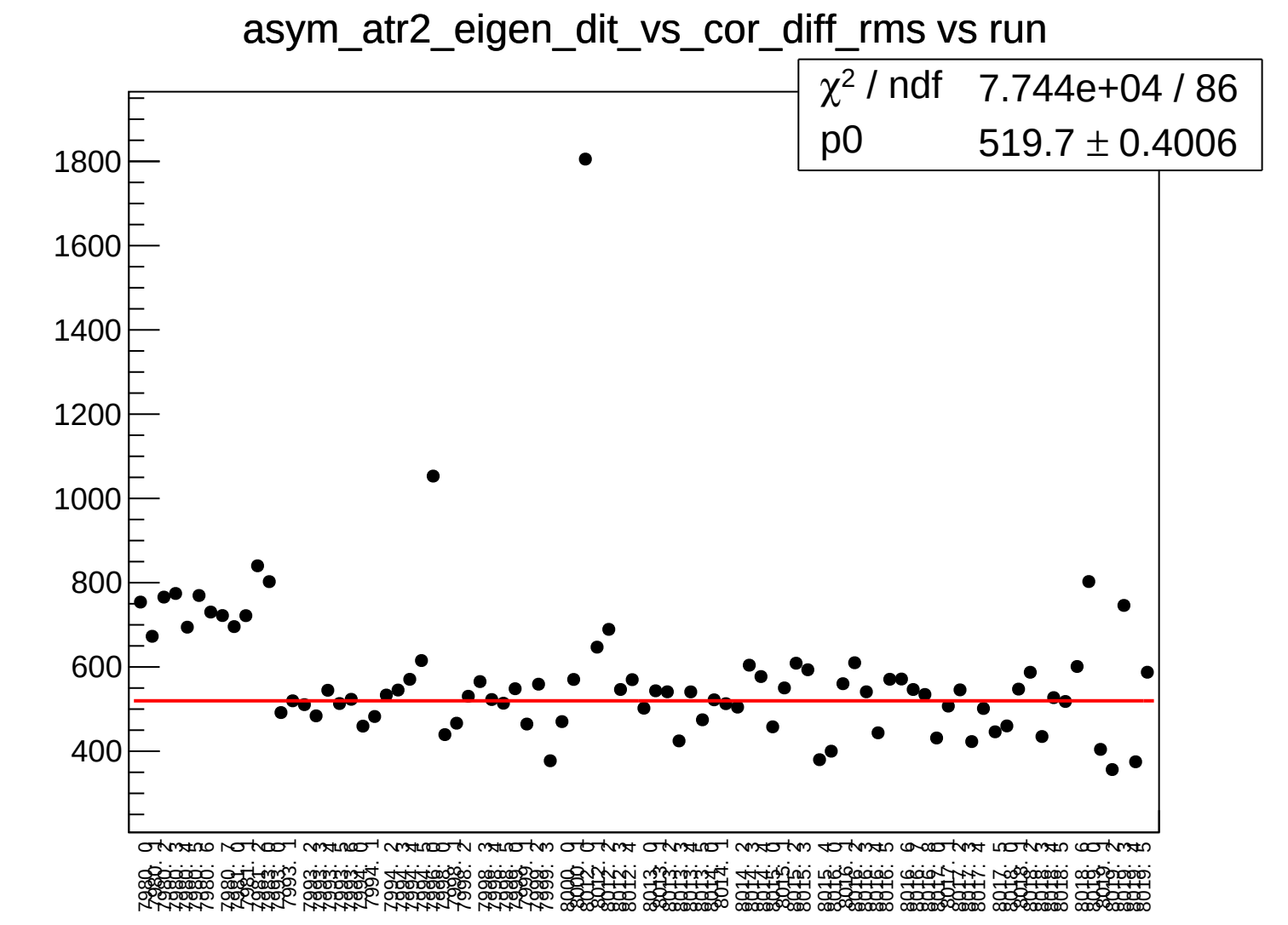

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.744e+04 / 86
p0 519.7 ± 0.4005
1800
1600
1400
1200
1000
800
600
400

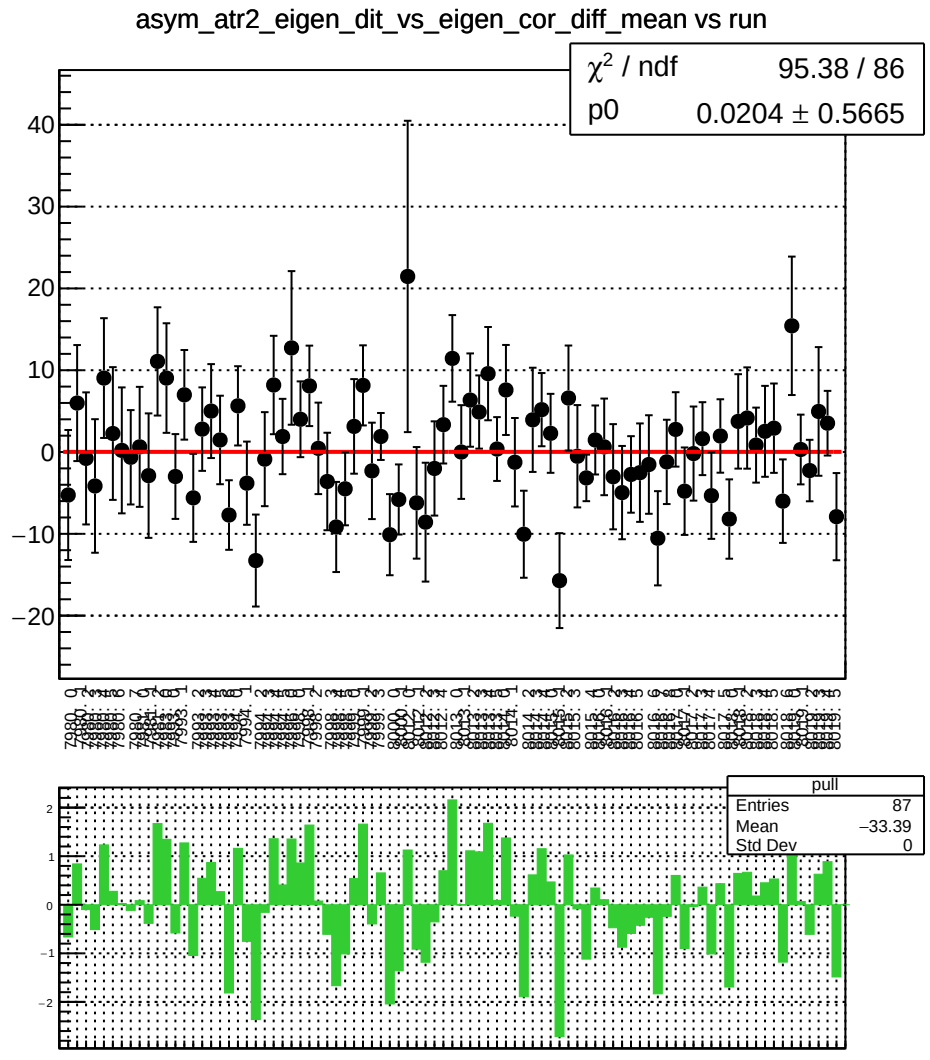

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.23 / 86
p0 −6.274e−05 ± 3.128e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 87
Mean 80.75
Std Dev 0
2
1
0
−1
−2
−3

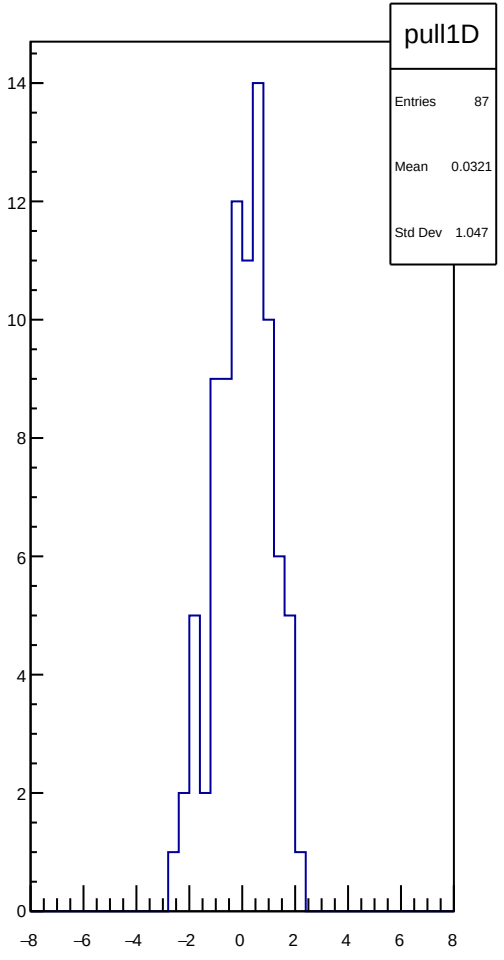

pull1D
Entries 87
Mean 0.01471
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

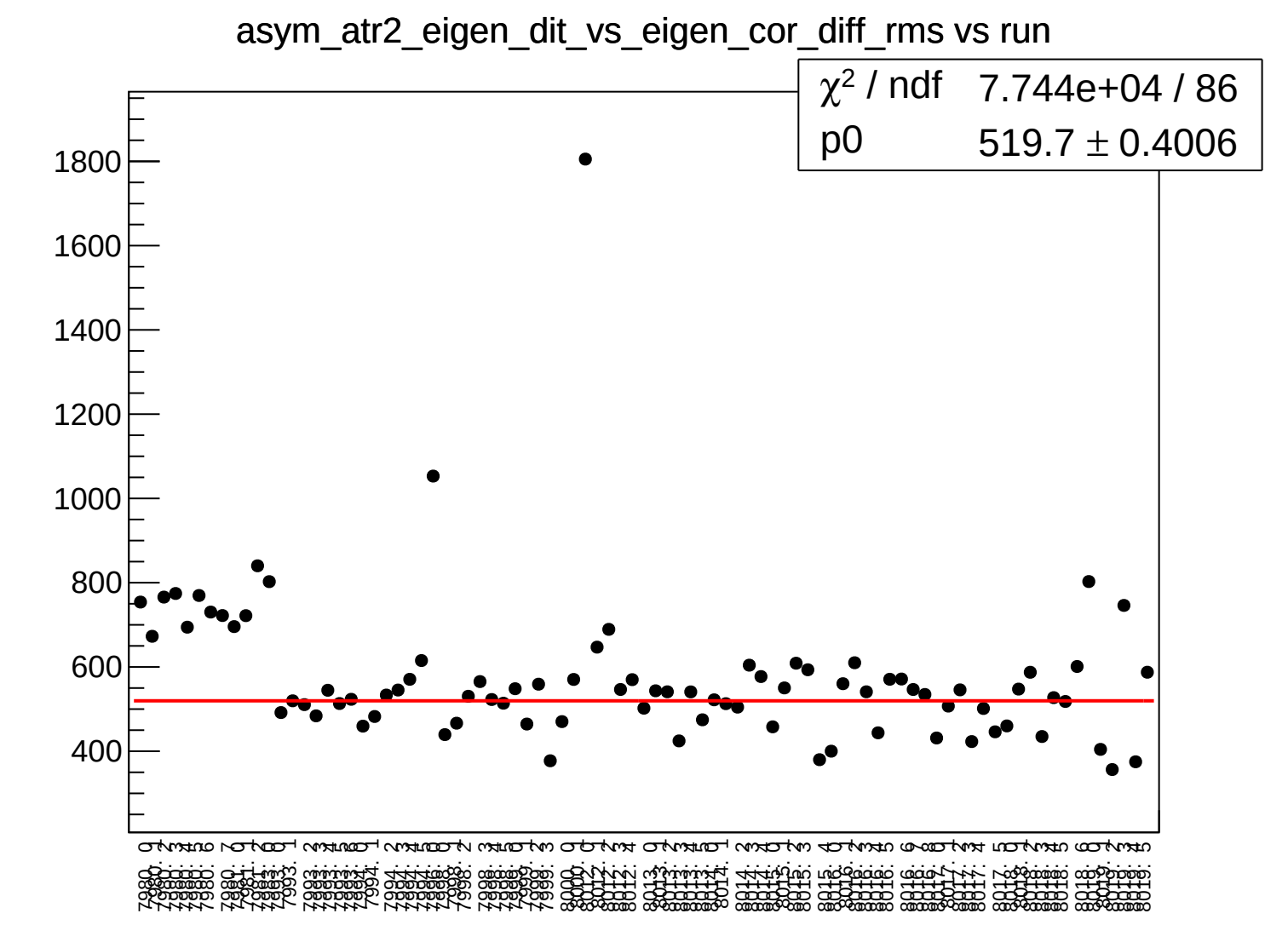

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4034 / 86
p0 0.02931 ± 2.212e–05
0.033
0.032
0.031
0.03
0.029
0.028
0.027
0.026

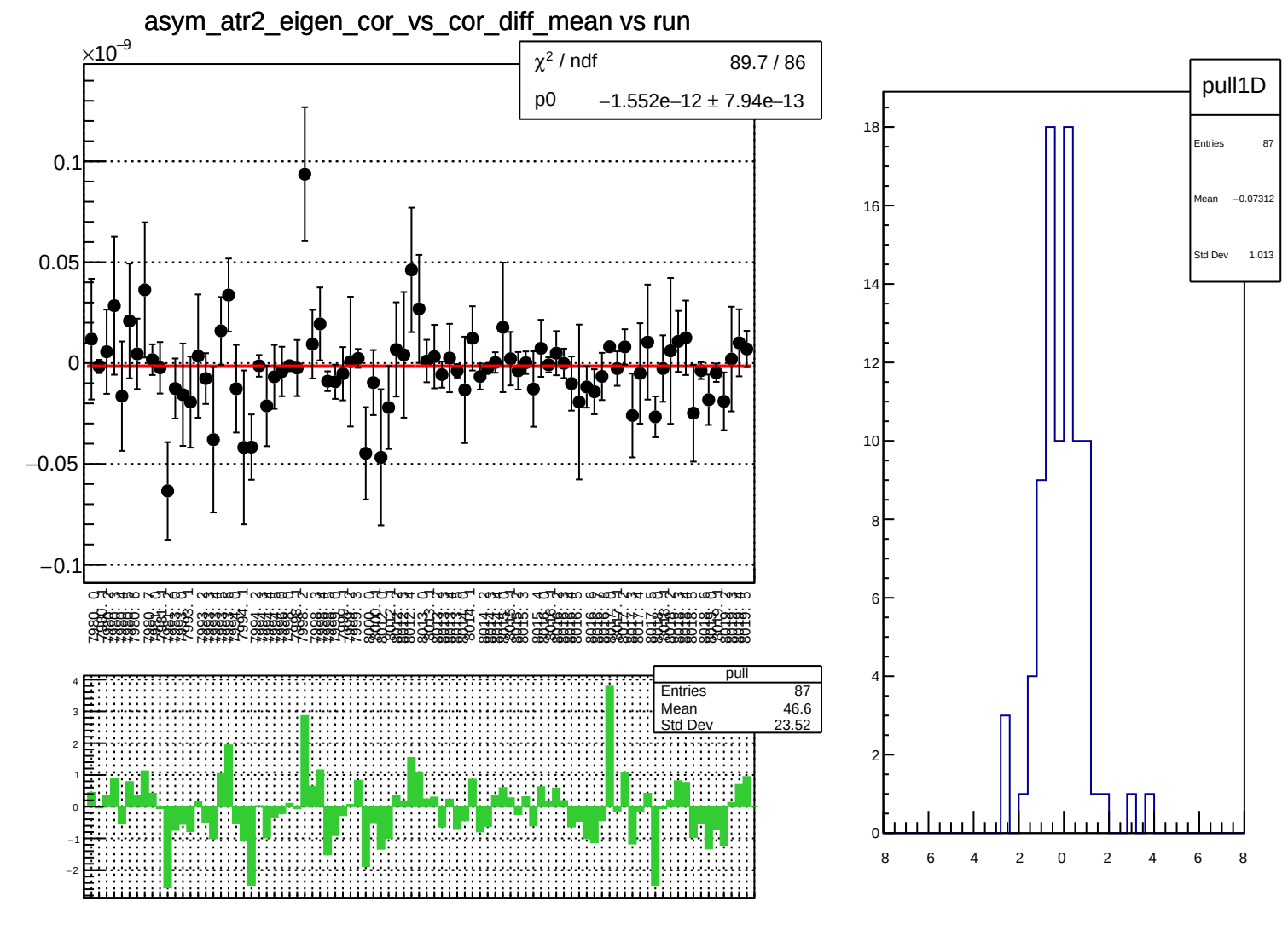

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.38 / 86
p0 0.0204 ± 0.5665
pull
Entries 87
Mean −33.39
Std Dev 0
pull1D
Entries 87
Mean 0.0321
Std Dev 1.047

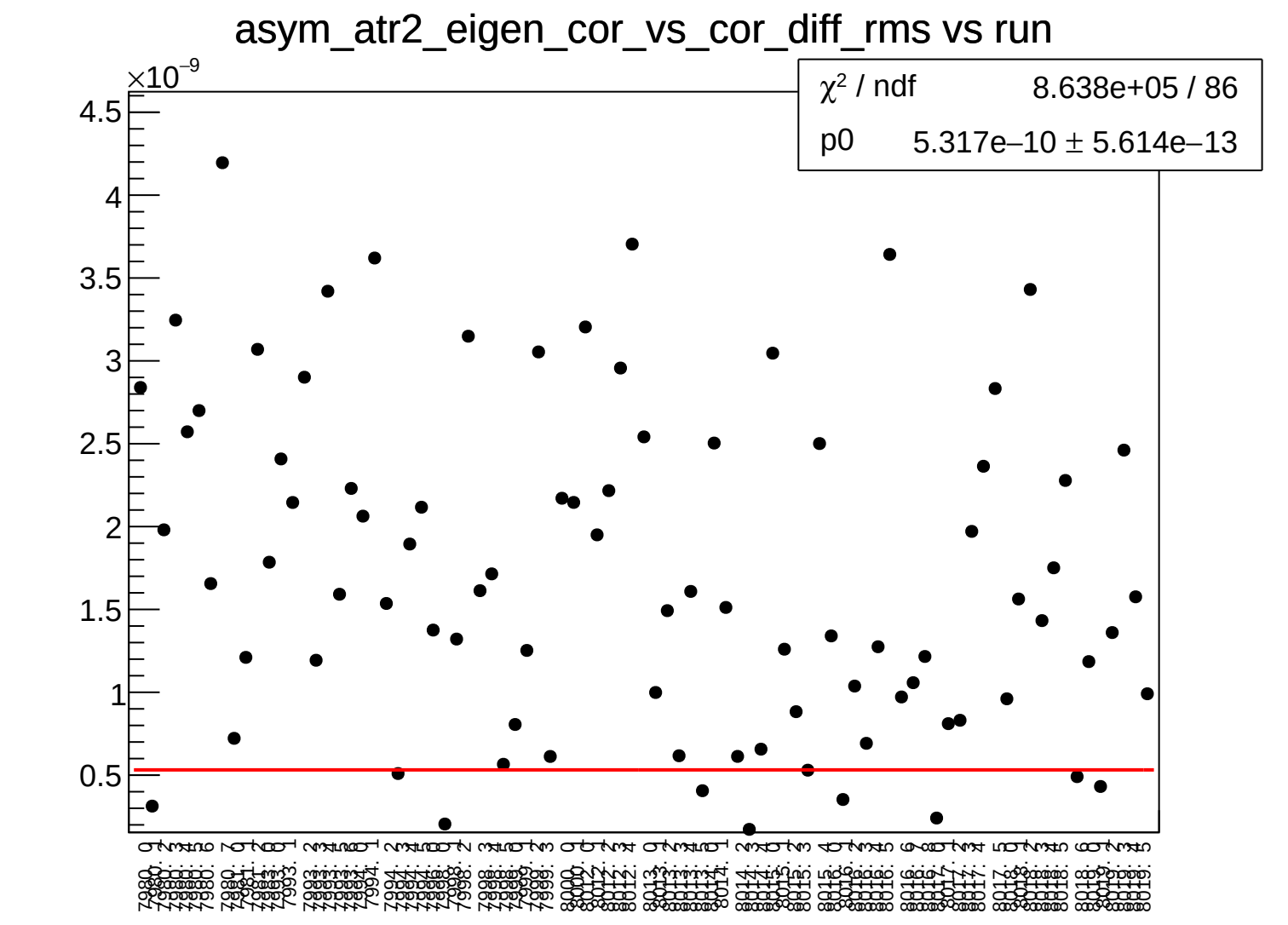

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.744e+04 / 86
p0 519.7 ± 0.4006
1800
1600
1400
1200
1000
800
600
400

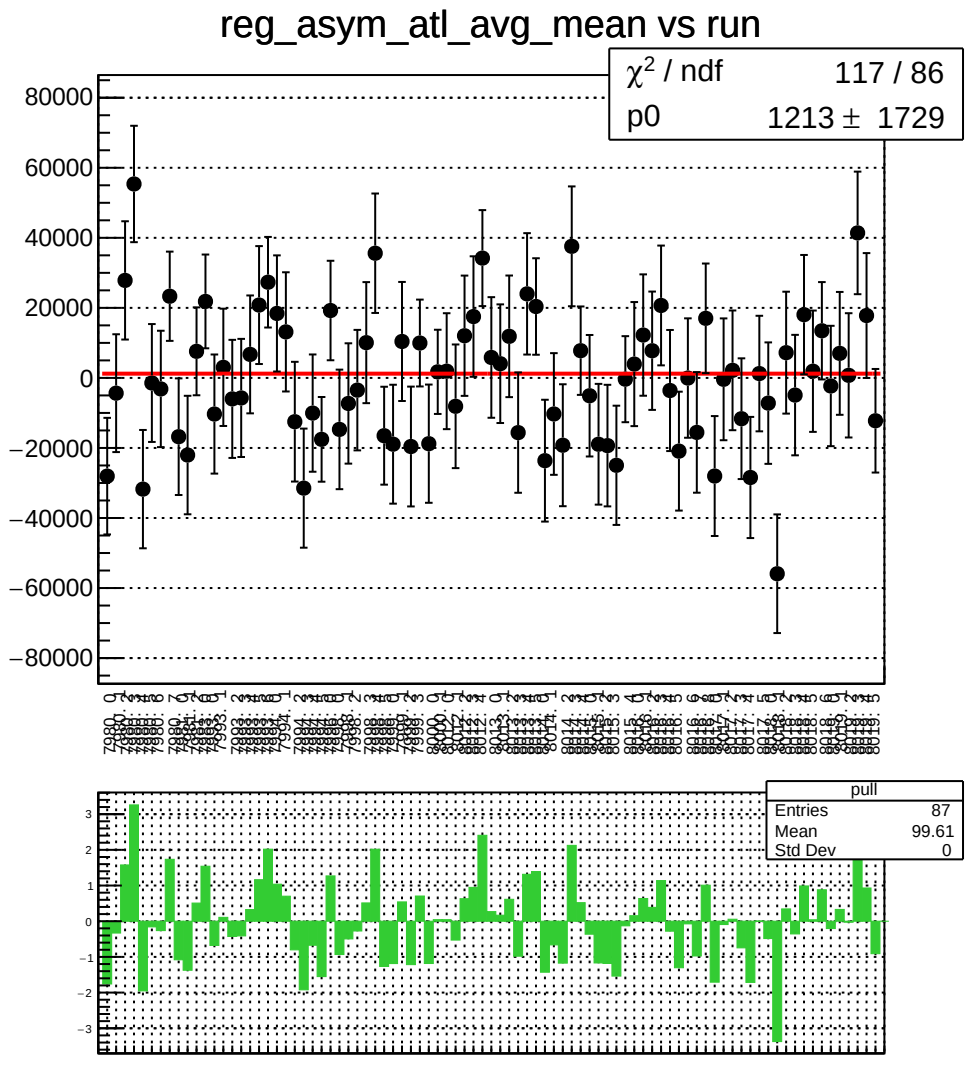

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.38 / 86
p0 0.0204 ± 0.5665
pull
Entries 87
Mean −33.39
Std Dev 0

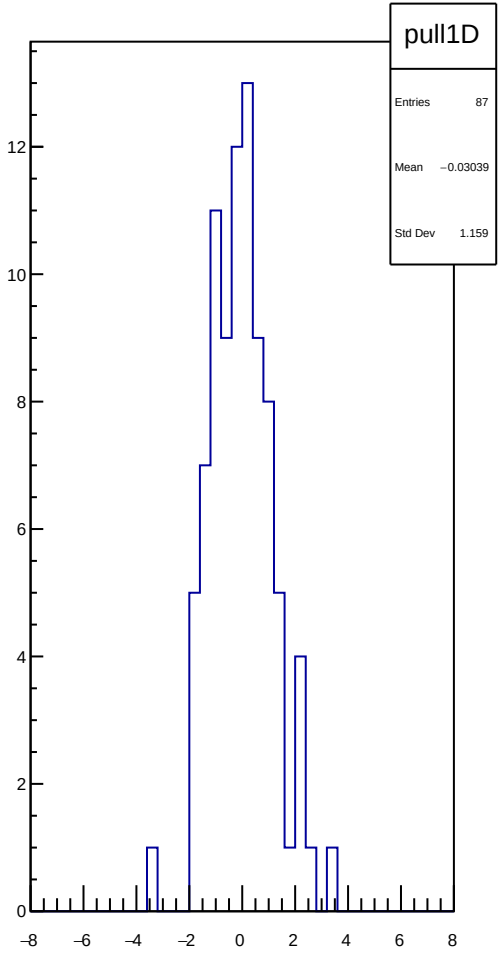

pull1D
Entries 87
Mean 0.0321
Std Dev 1.047

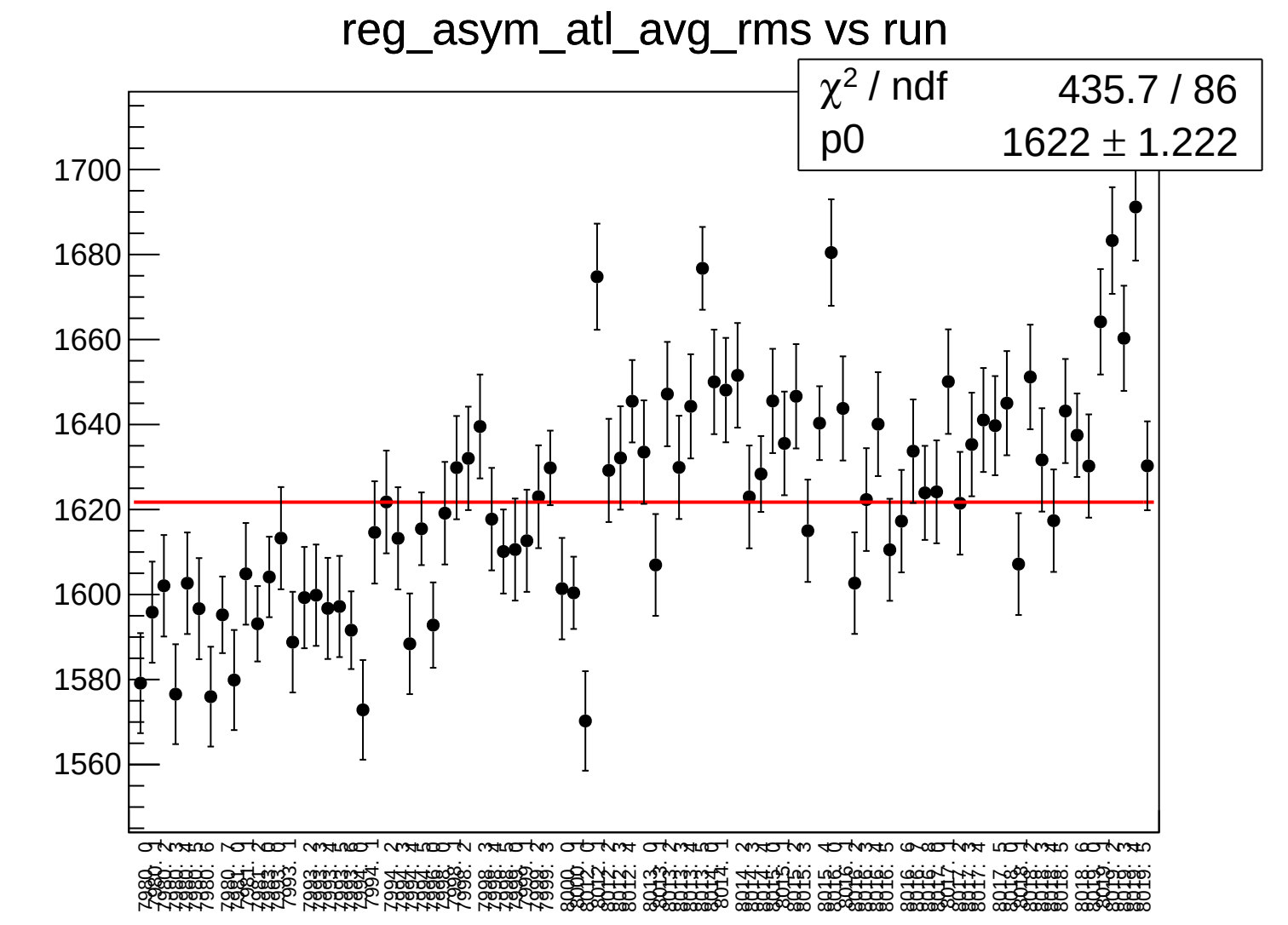

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.744e+04 / 86
p0 519.7 ± 0.4006
1800
1600
1400
1200
1000
800
600
400

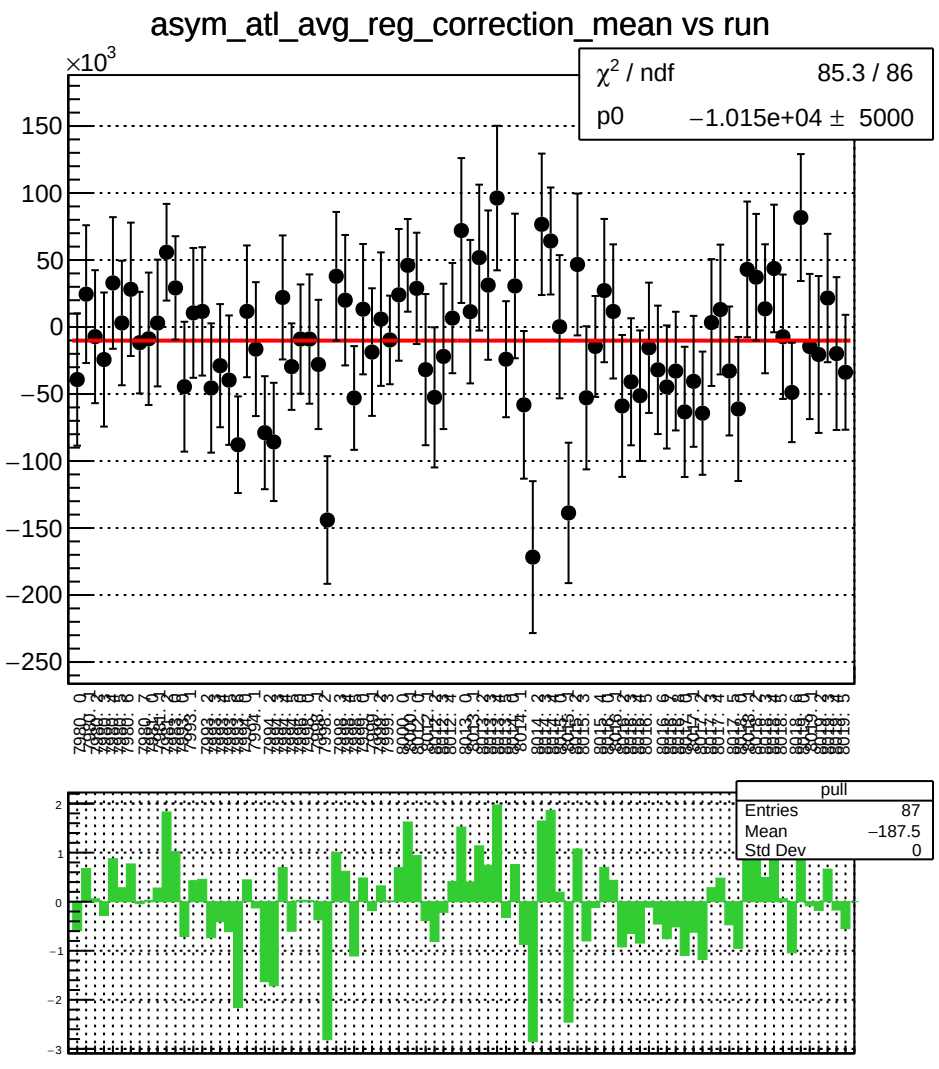

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 89.7 / 86
p0 −1.552e−12 ± 7.94e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 46.6
Std Dev 23.52
4
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.07312
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

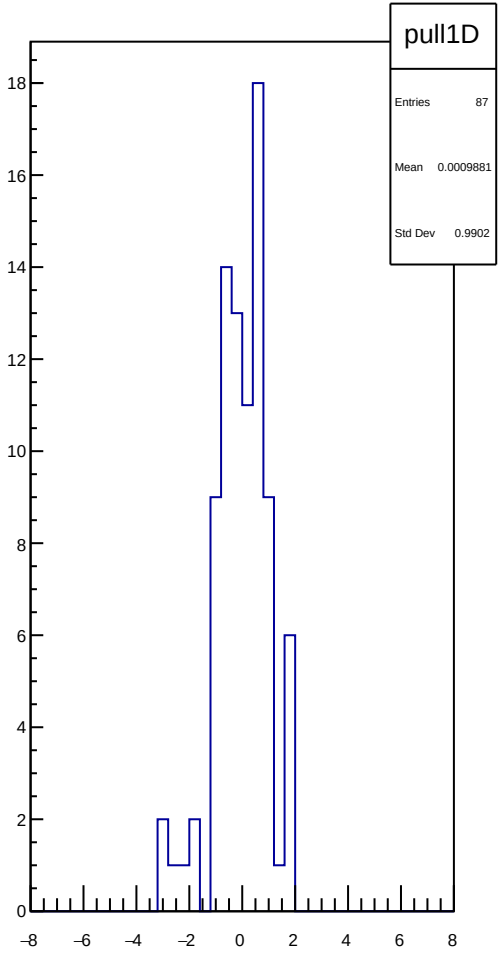

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.638e+05 / 86
p0 5.317e−10 ± 5.614e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

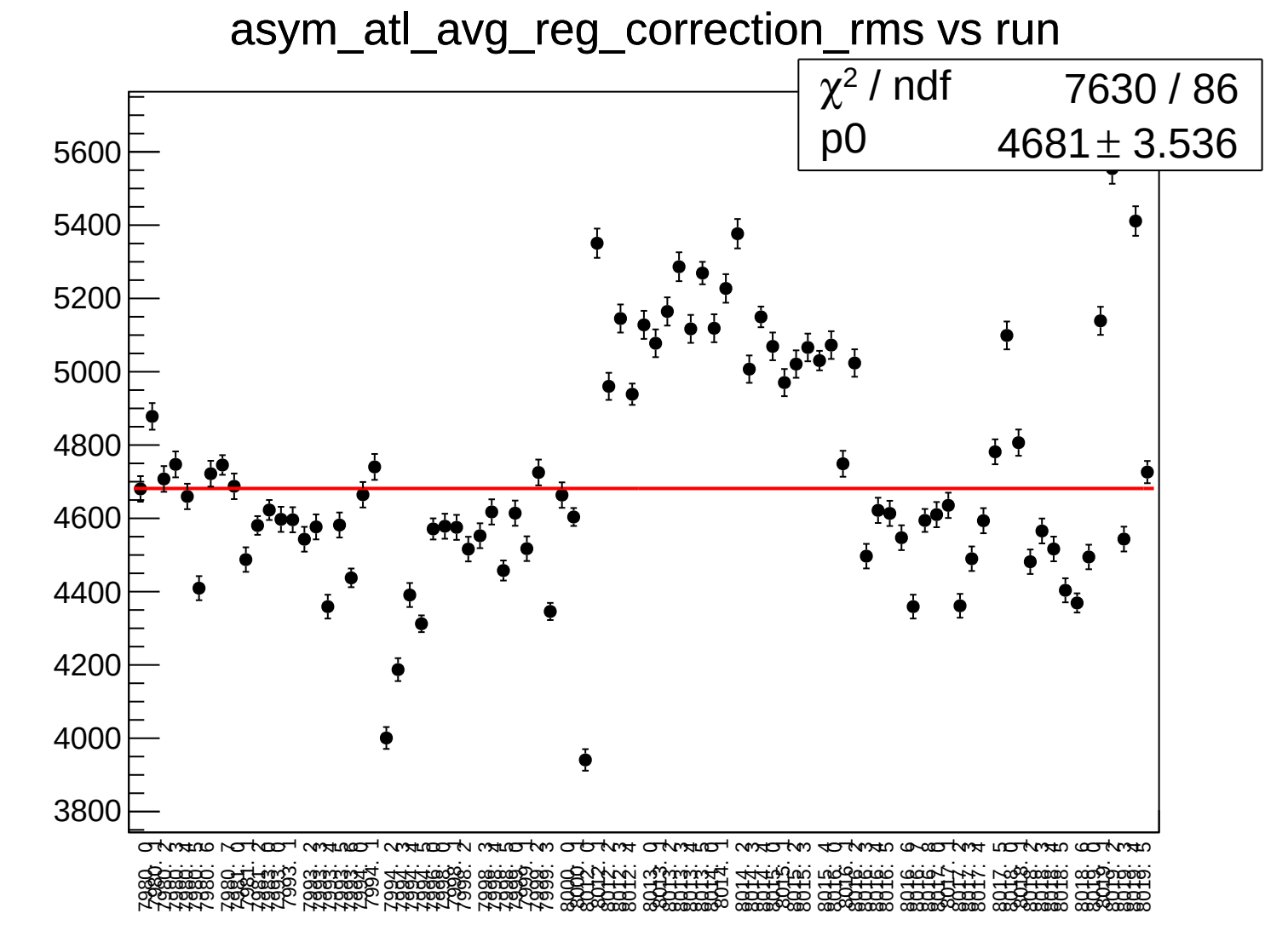

reg_asym_atl_avg_mean vs run
χ² / ndf 117 / 86
p0 1213 ± 1729
pull
Entries 87
Mean 99.61
Std Dev 0

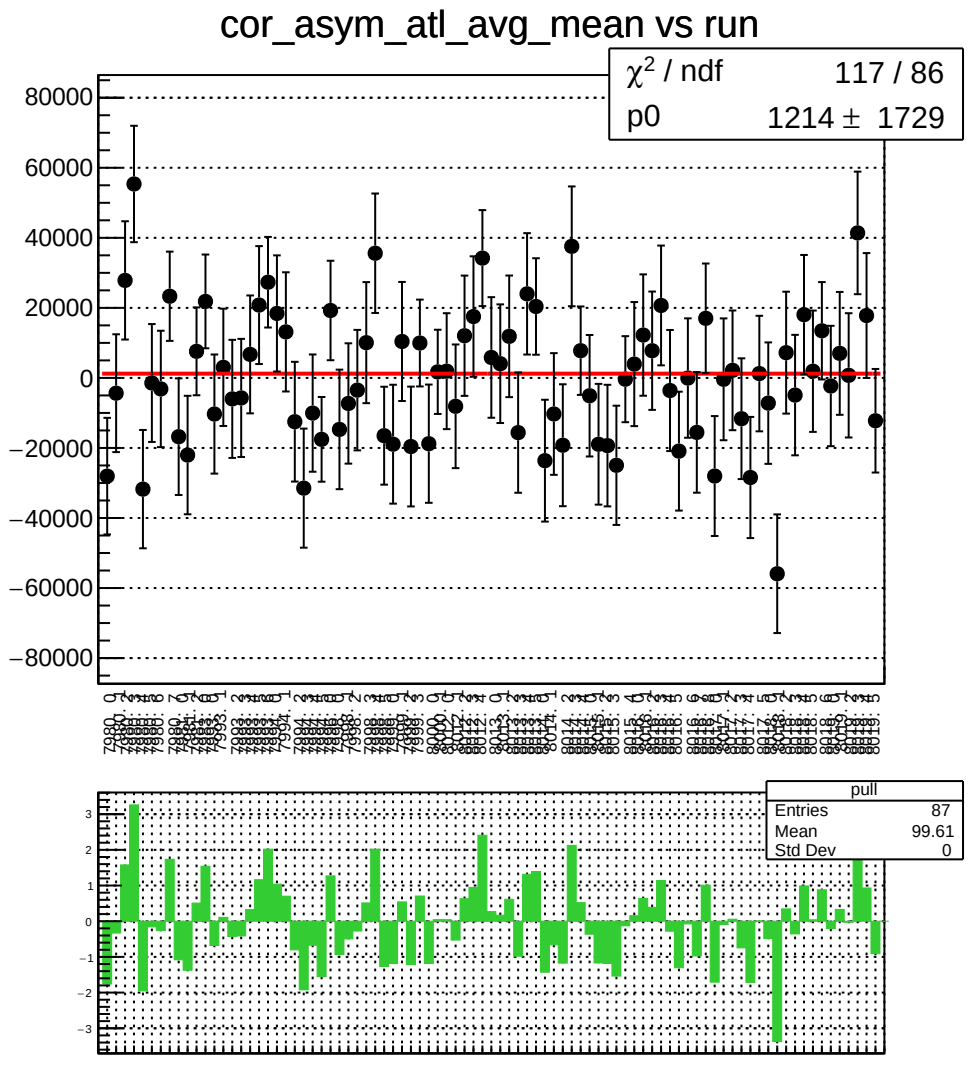

pull1D
Entries 87
Mean −0.03039
Std Dev 1.159

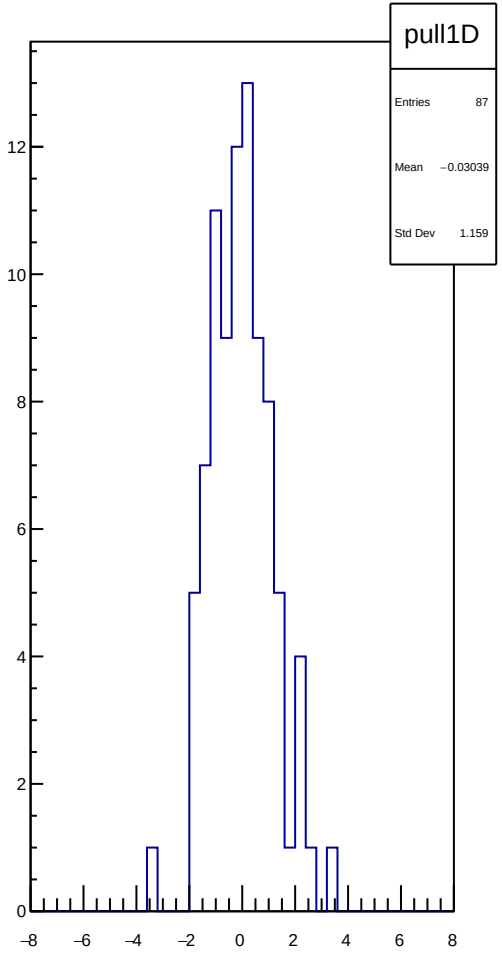

reg_asym_atl_avg_rms vs run
χ^2 / ndf 435.7 / 86
p0 1622 ± 1.222
1700
1680
1660
1640
1620
1600
1580
1560

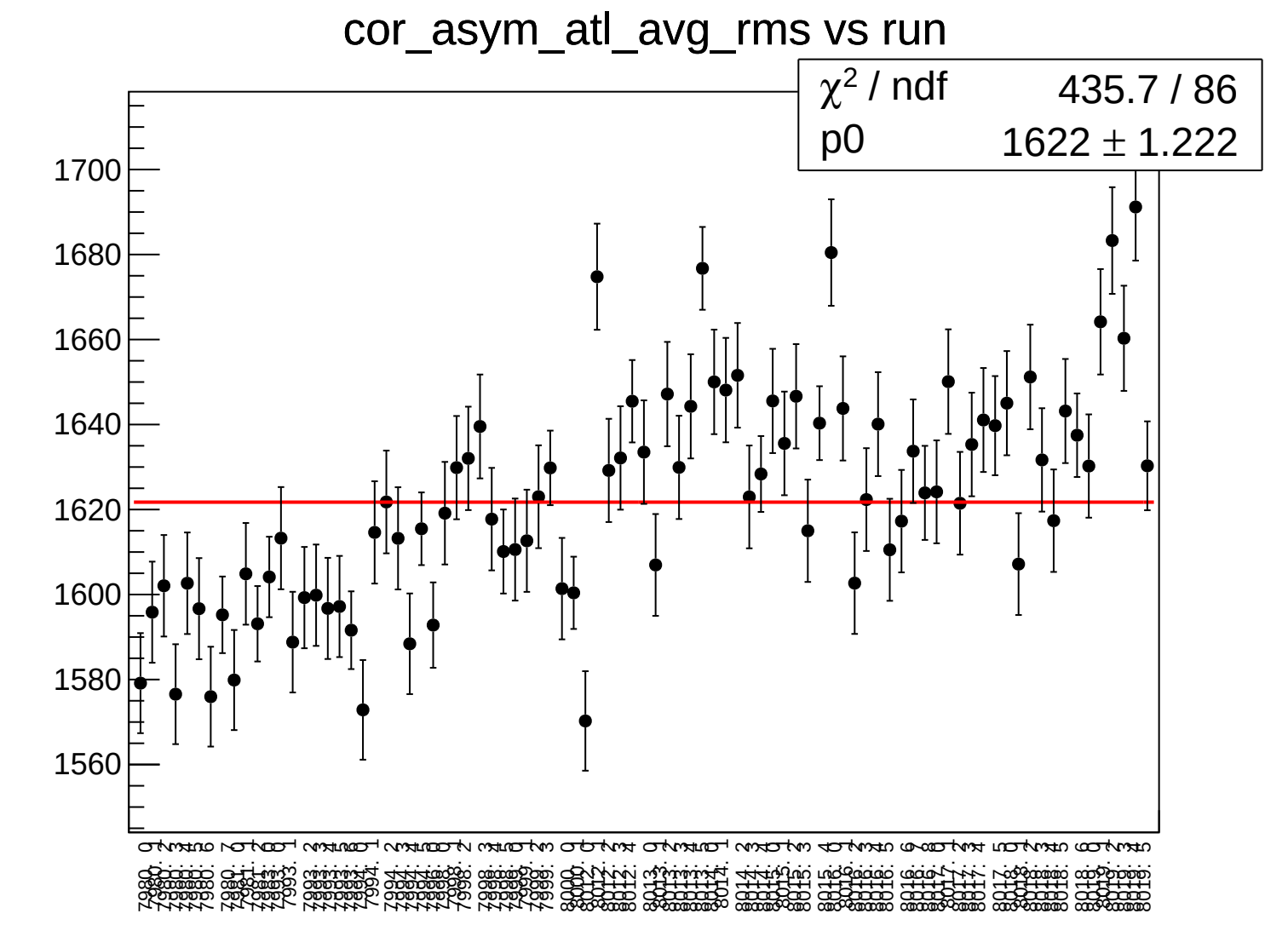

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 85.3 / 86
p0 −1.015e+04 ± 5000
pull
Entries 87
Mean −187.5
Std Dev 0

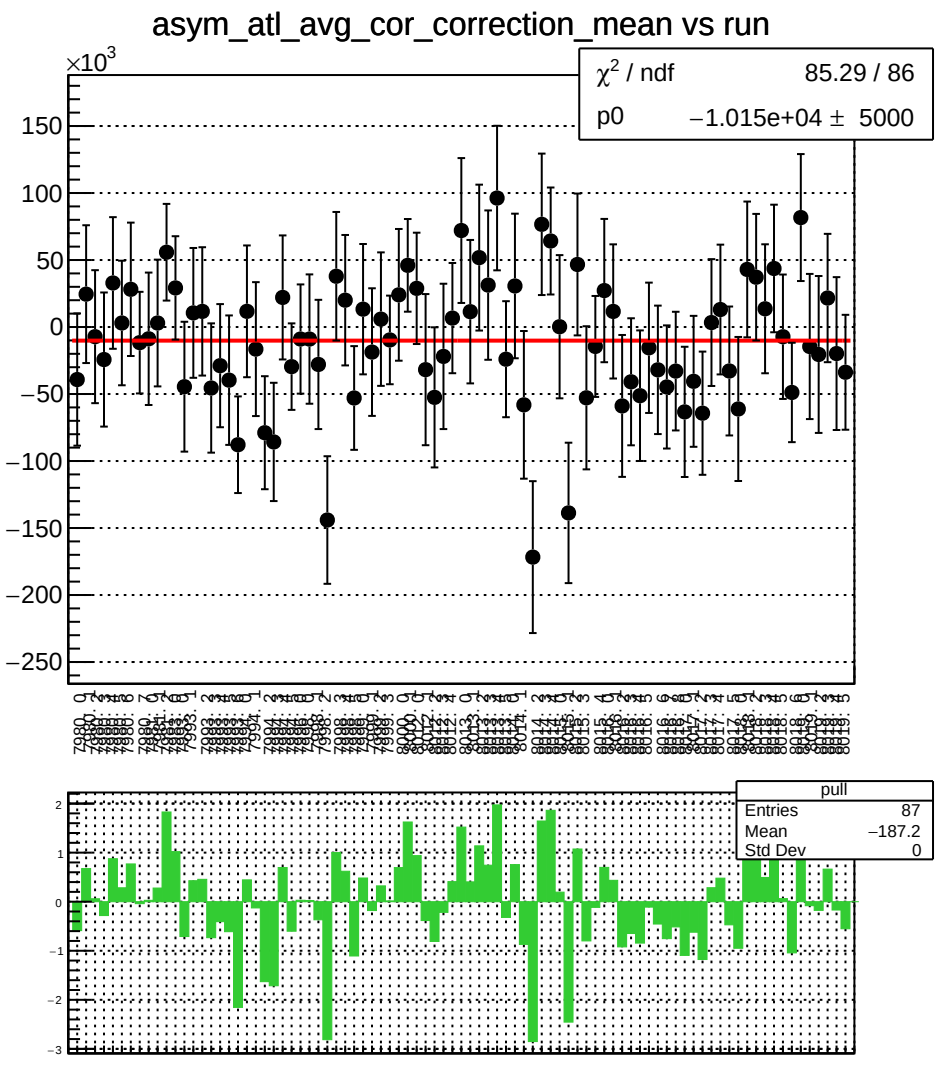

pull1D
Entries 87
Mean 0.0009881
Std Dev 0.9902

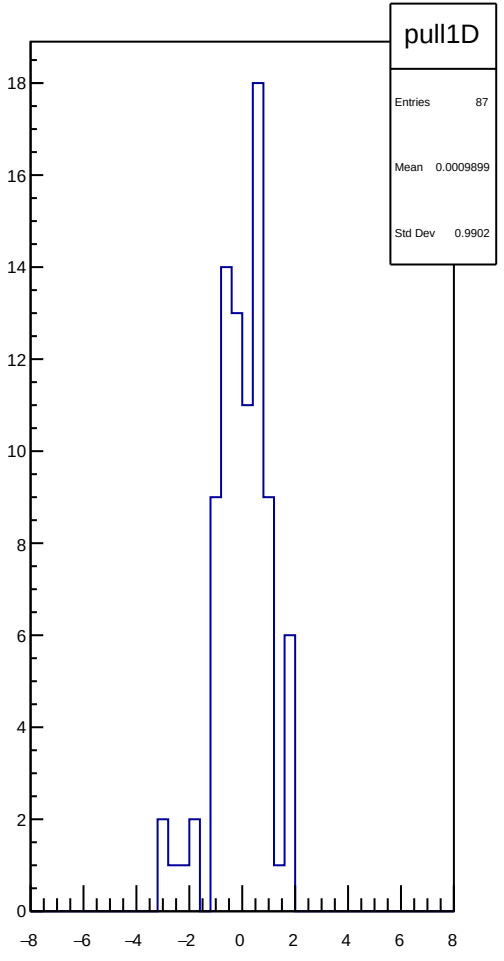

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 7630 / 86
p0 4681 ± 3.536
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

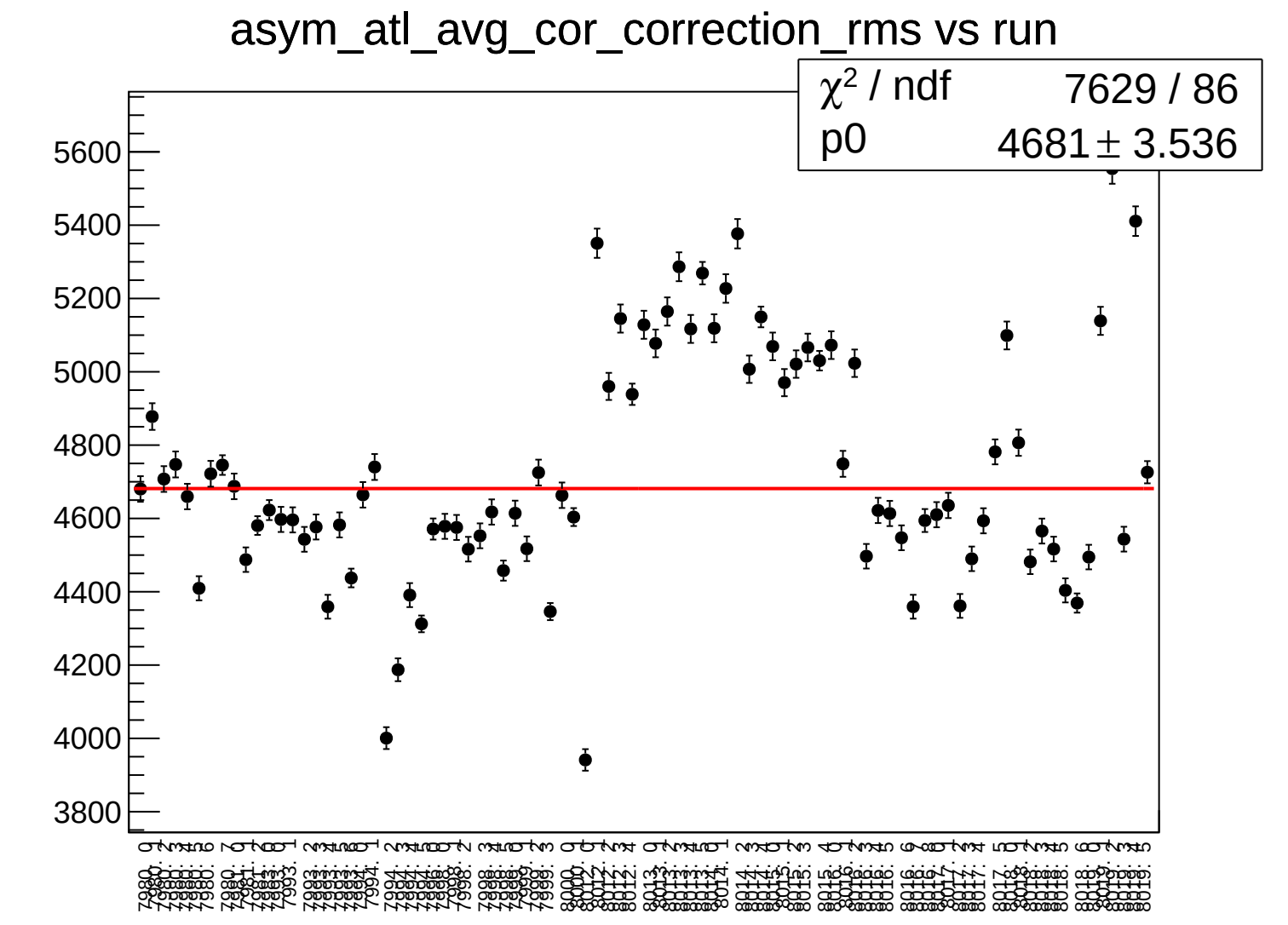

cor_asym_atl_avg_mean vs run
χ² / ndf 117 / 86
p0 1214 ± 1729
pull
Entries 87
Mean 99.61
Std Dev 0

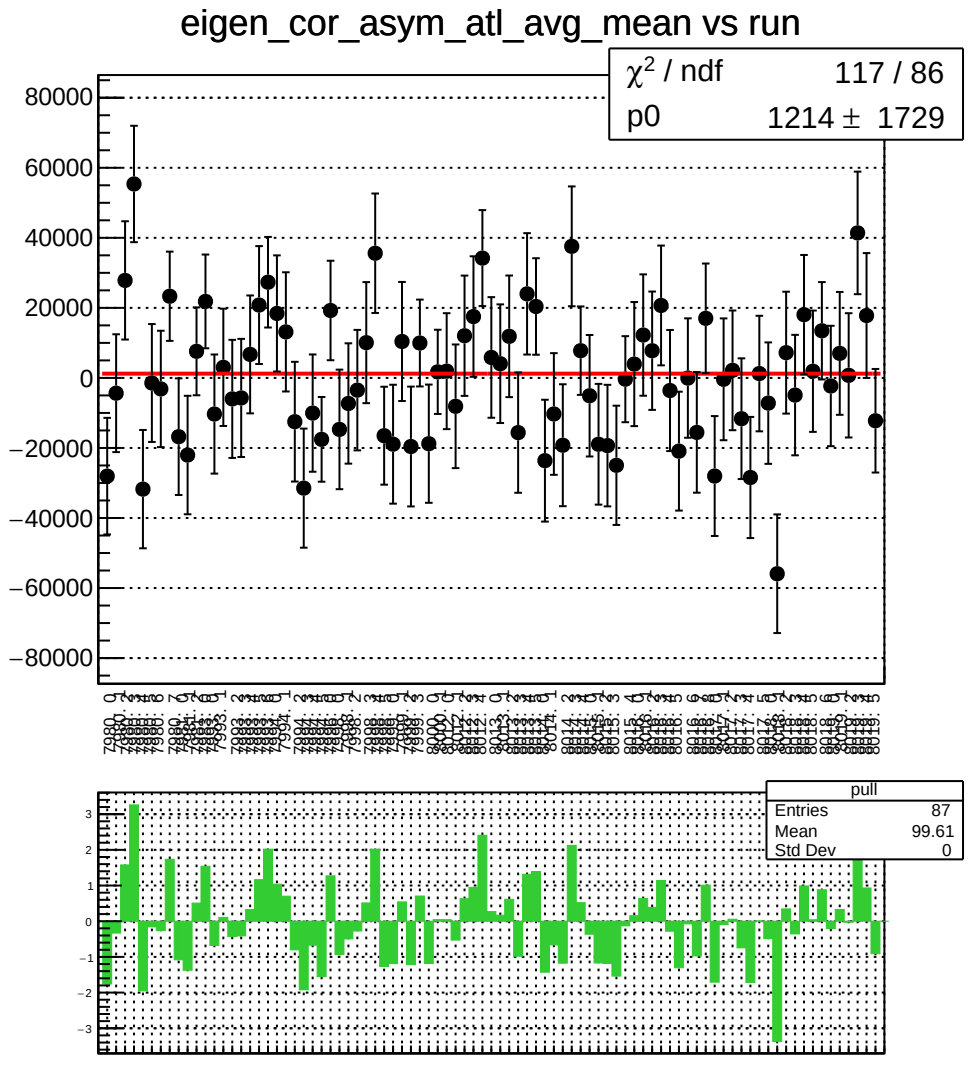

pull1D
Entries 87
Mean −0.03039
Std Dev 1.159

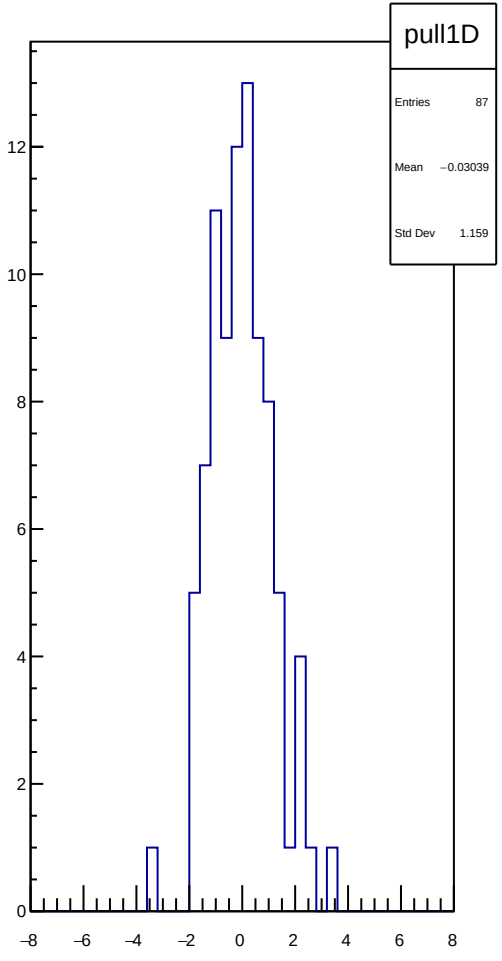

cor_asym_atl_avg_rms vs run
χ^2 / ndf 435.7 / 86
p0 1622 ± 1.222
1700
1680
1660
1640
1620
1600
1580
1560

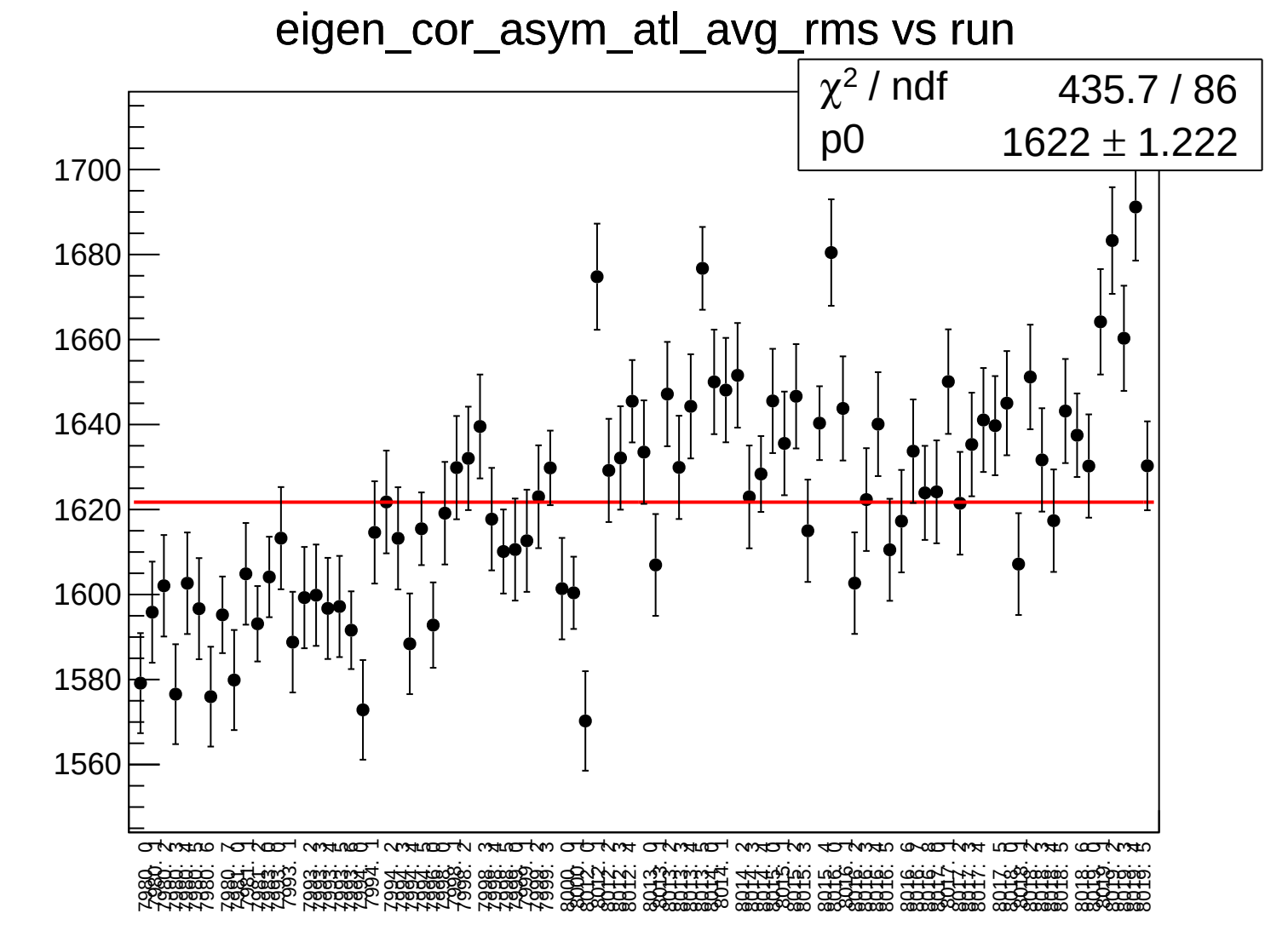

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.29 / 86
p0 −1.015e+04 ± 5000
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 87
Mean −187.2
Std Dev 0
2
1
0
−1
−2
−3

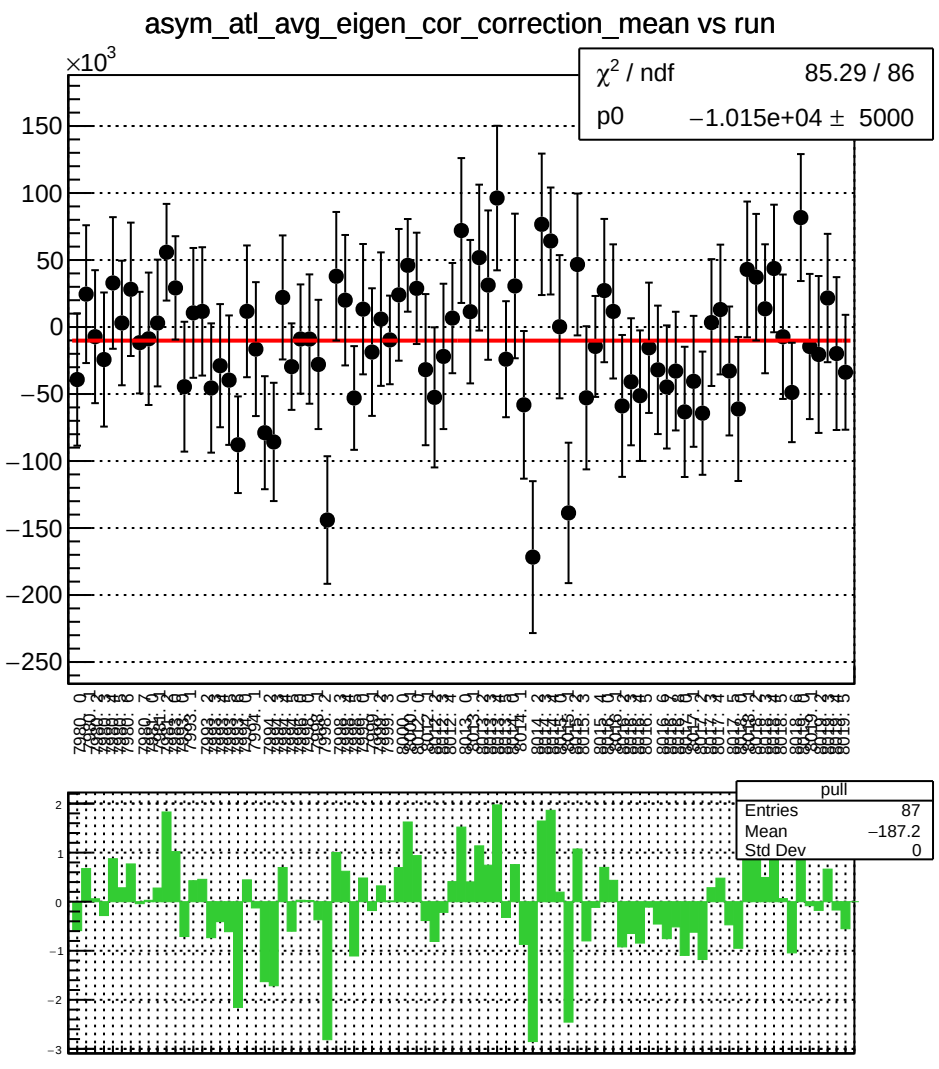

pull1D
Entries 87
Mean 0.0009899
Std Dev 0.9902
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

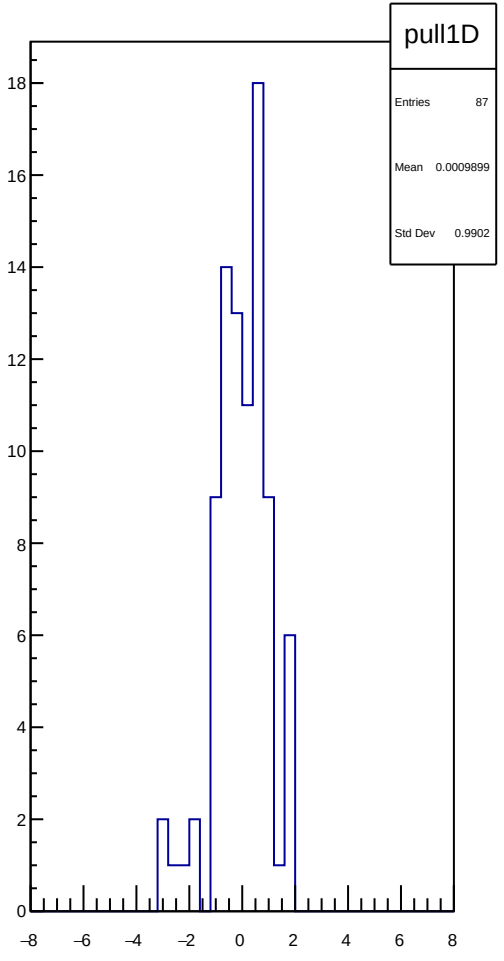

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 7629 / 86
p0 4681 ± 3.536
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

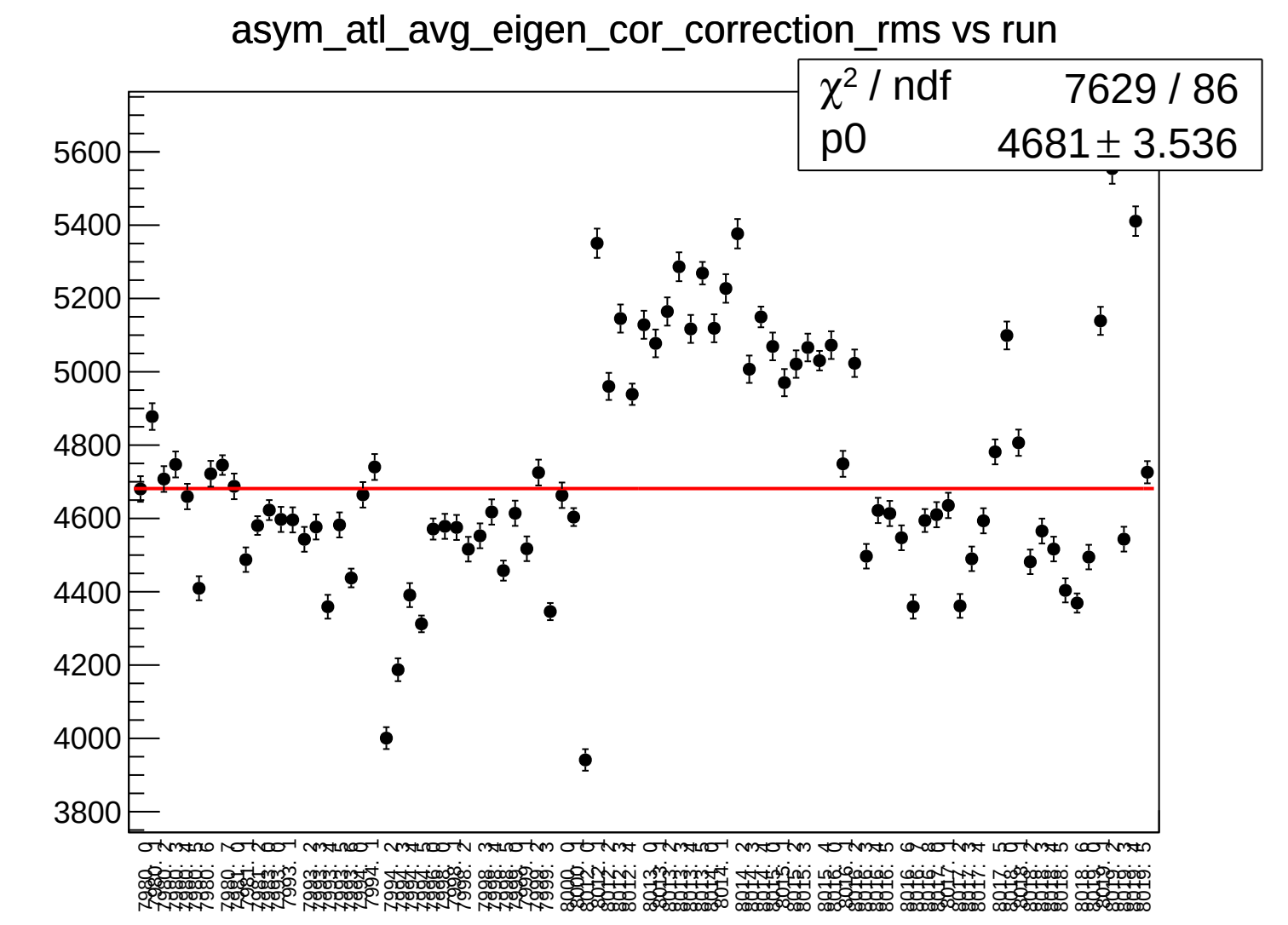

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 117 / 86
p0 1214 ± 1729
pull
Entries 87
Mean 99.61
Std Dev 0

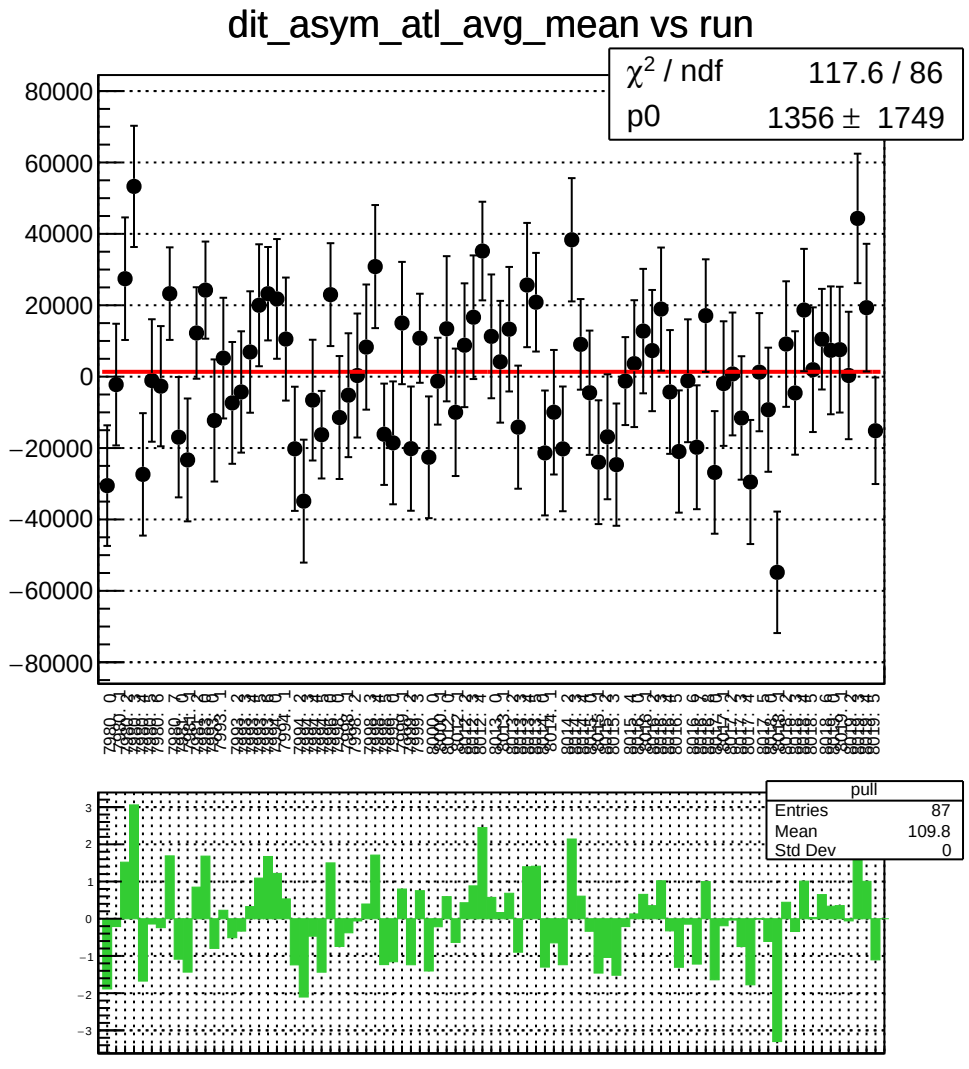

pull1D
Entries 87
Mean −0.03039
Std Dev 1.159

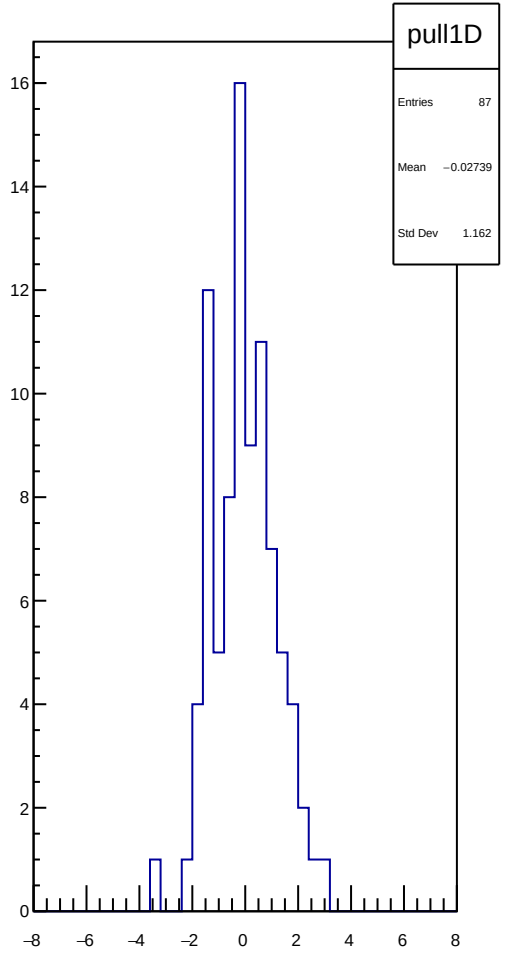

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 435.7 / 86
p0 1622 ± 1.222
1700
1680
1660
1640
1620
1600
1580
1560

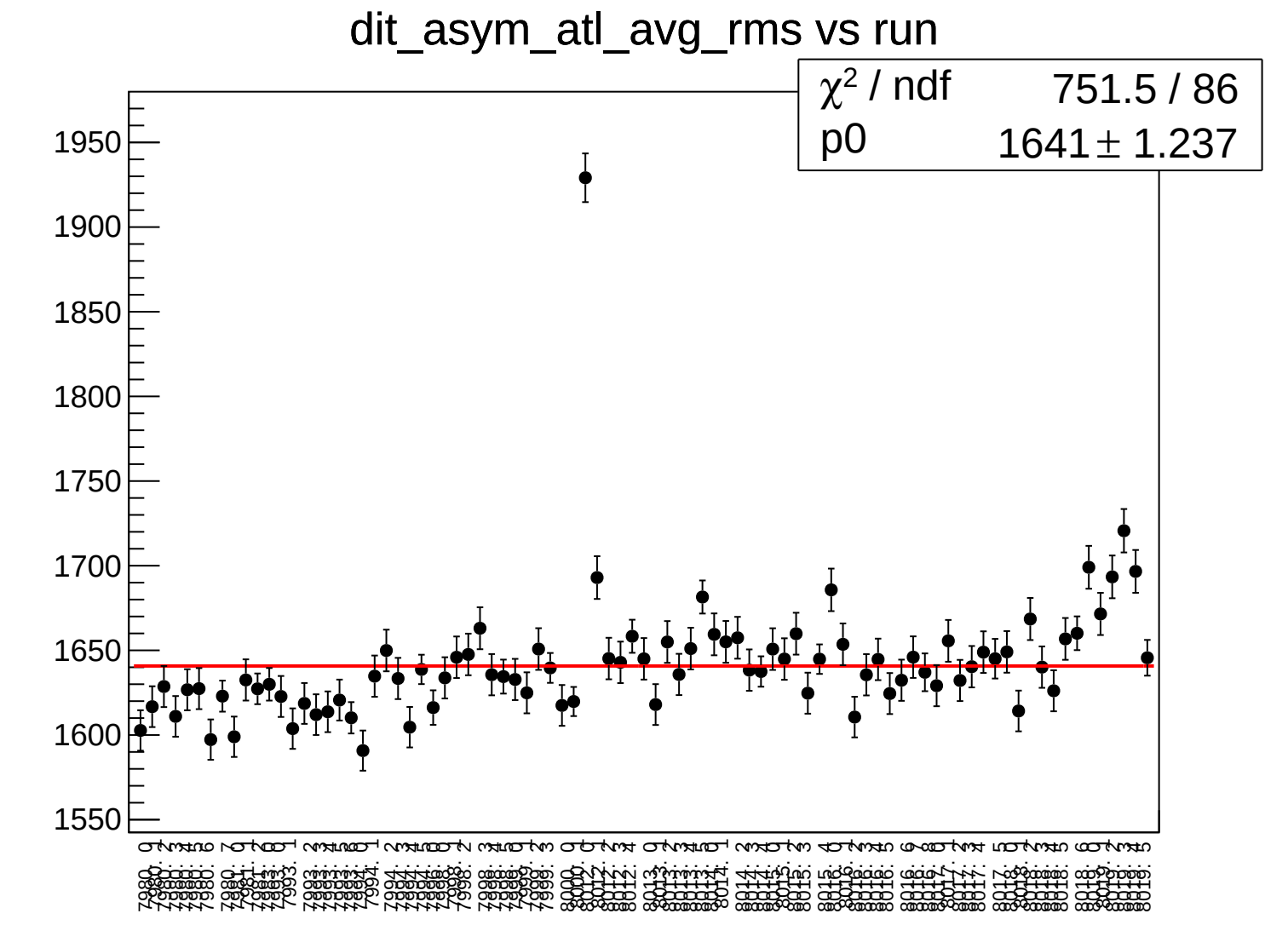

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.29 / 86
p0 −1.015e+04 ± 5000
×10³
pull
Entries 87
Mean −187.2
Std Dev 0

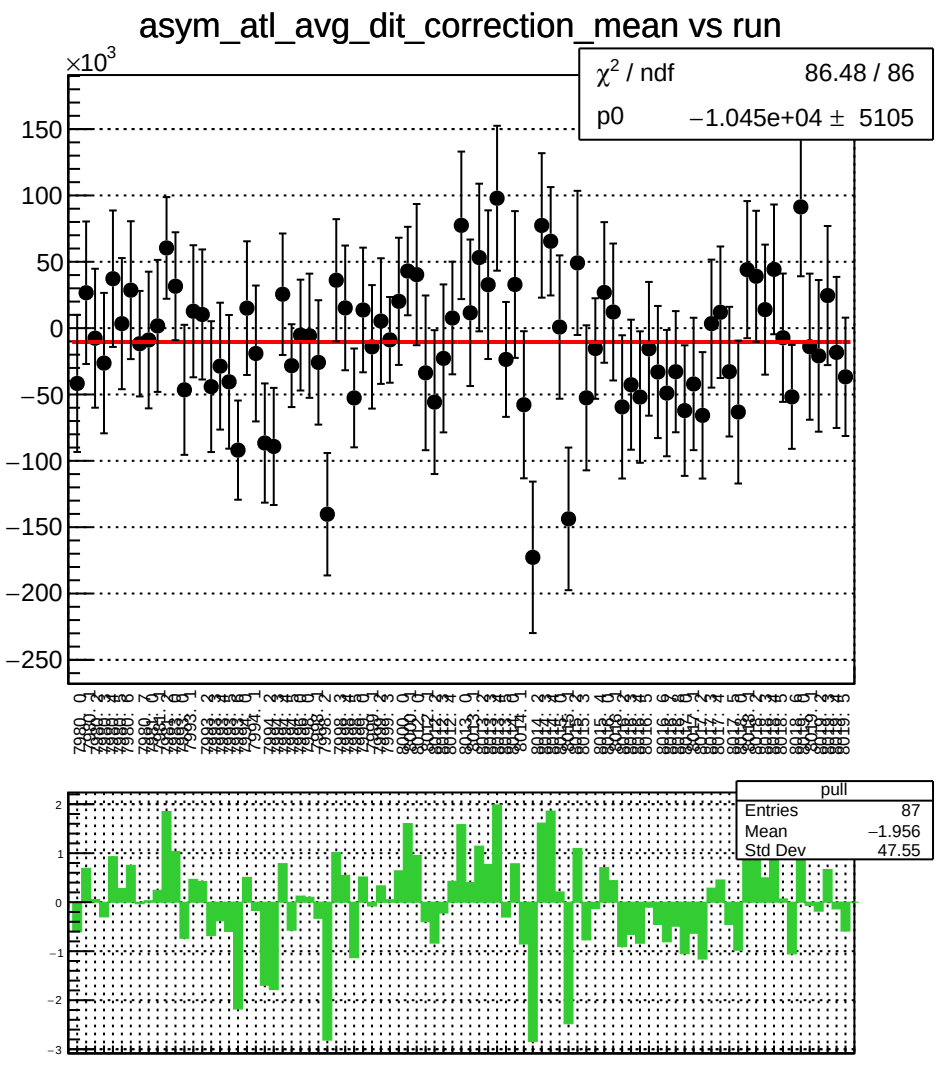

pull1D
Entries 87
Mean 0.0009899
Std Dev 0.9902

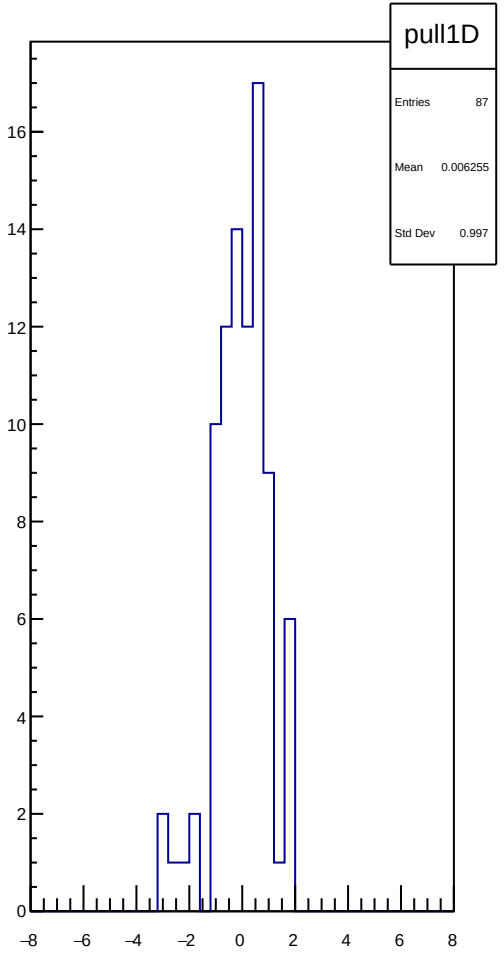

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 7629 / 86
p0 4681 ± 3.536
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

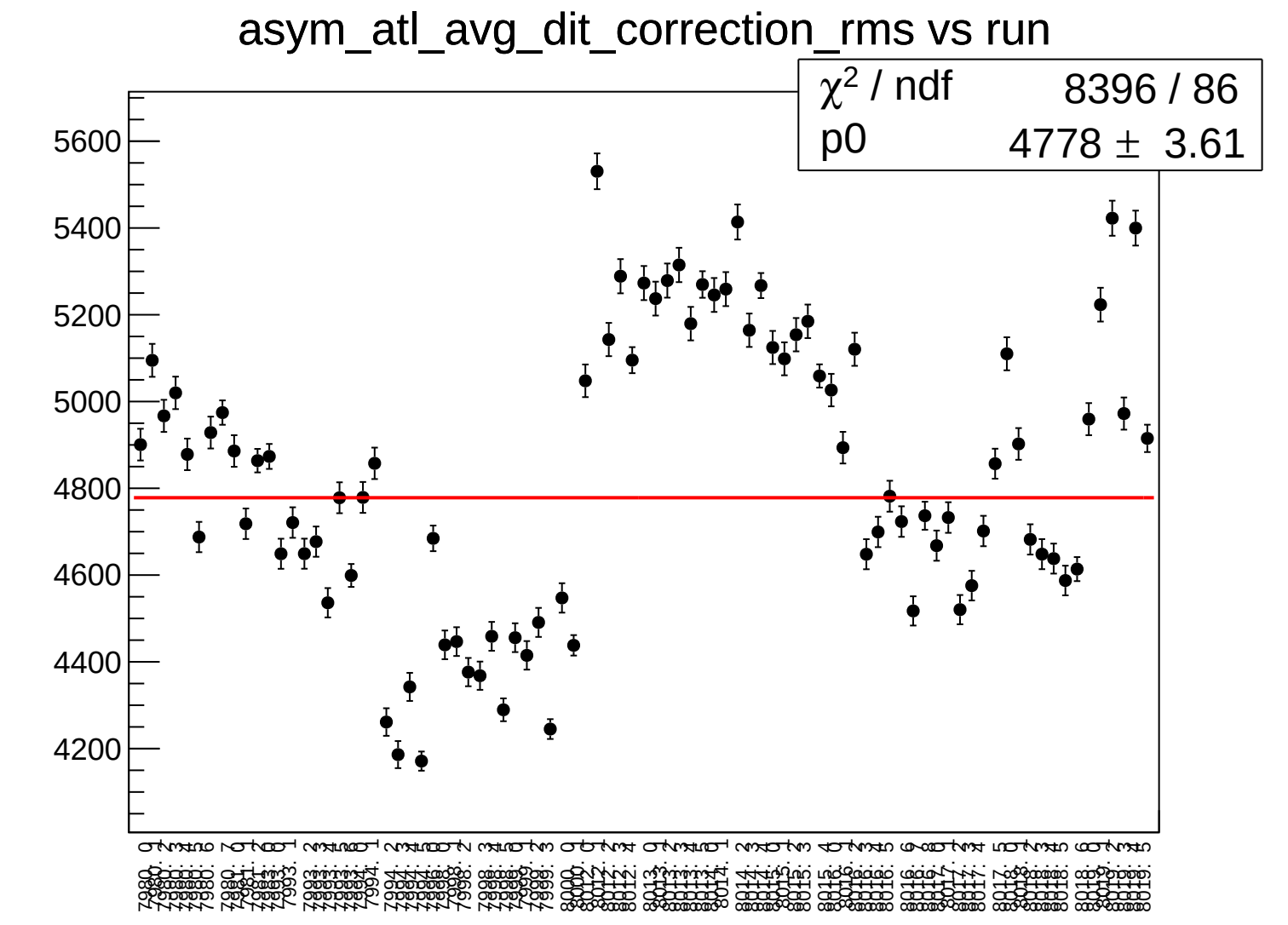

dit_asym_atl_avg_mean vs run
χ² / ndf 117.6 / 86
p0 1356 ± 1749
pull
Entries 87
Mean 109.8
Std Dev 0

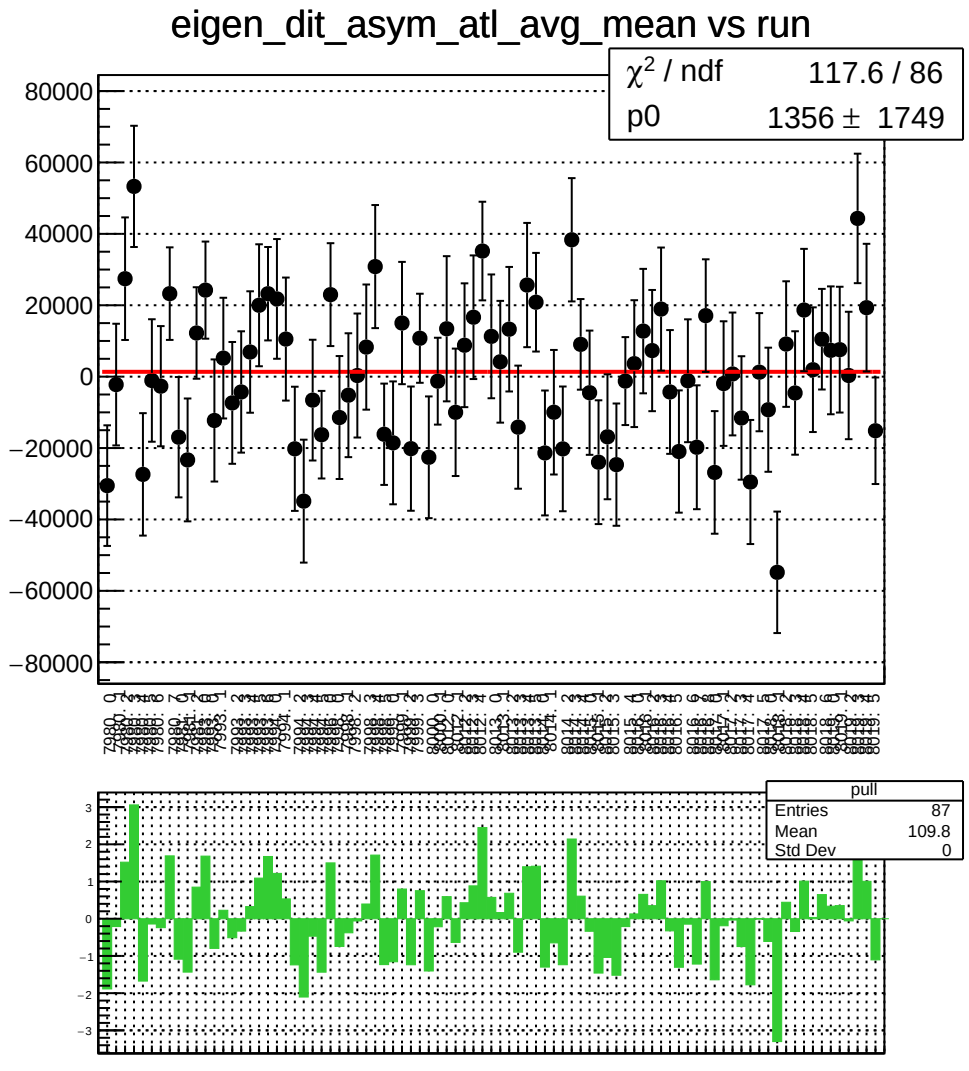

pull1D
Entries 87
Mean −0.02739
Std Dev 1.162

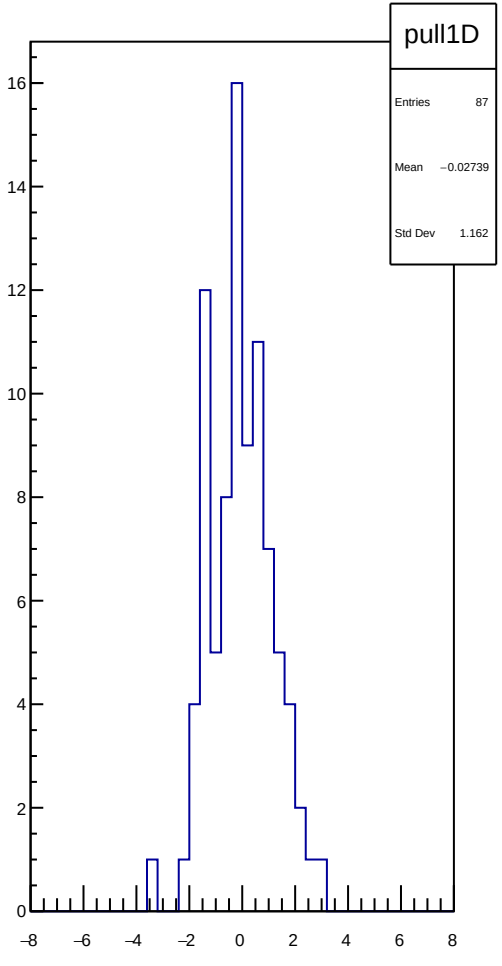

dit_asym_atl_avg_rms vs run
χ² / ndf 751.5 / 86
p0 1641 ± 1.237
1950
1900
1850
1800
1750
1700
1650
1600
1550

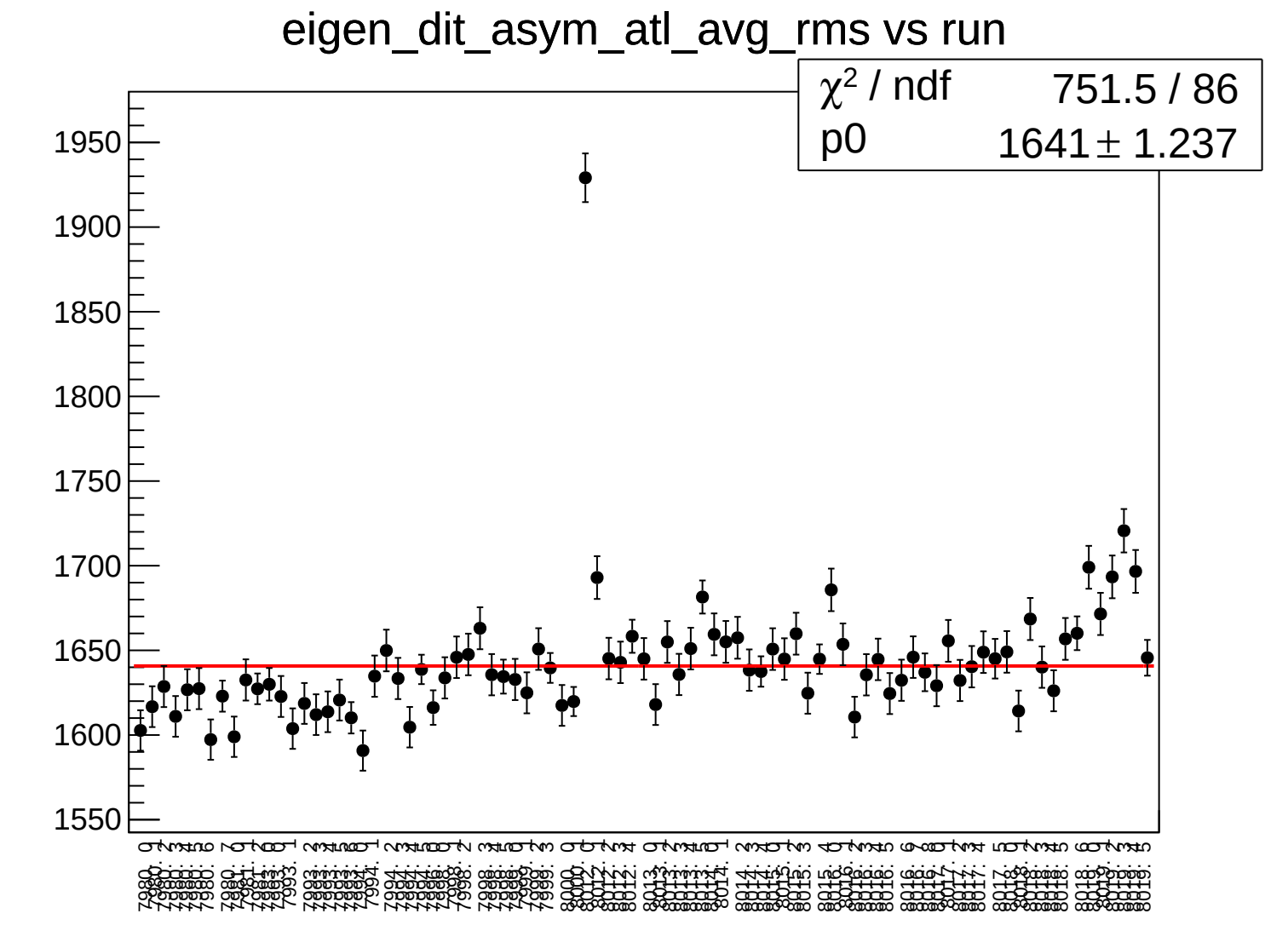

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.48 / 86
p0 −1.045e+04 ± 5105
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 87
Mean −1.956
Std Dev 47.55
2
1
0
−1
−2
−3

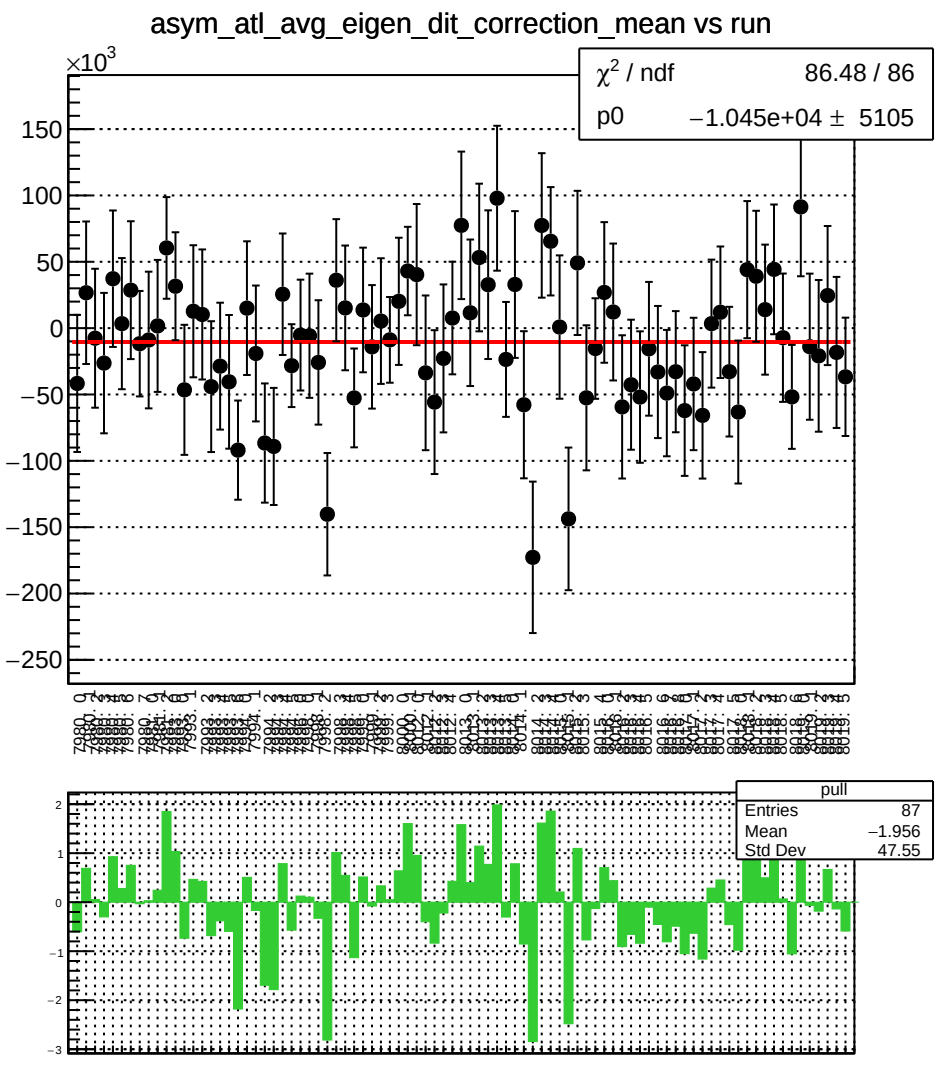

pull1D
Entries 87
Mean 0.006255
Std Dev 0.997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

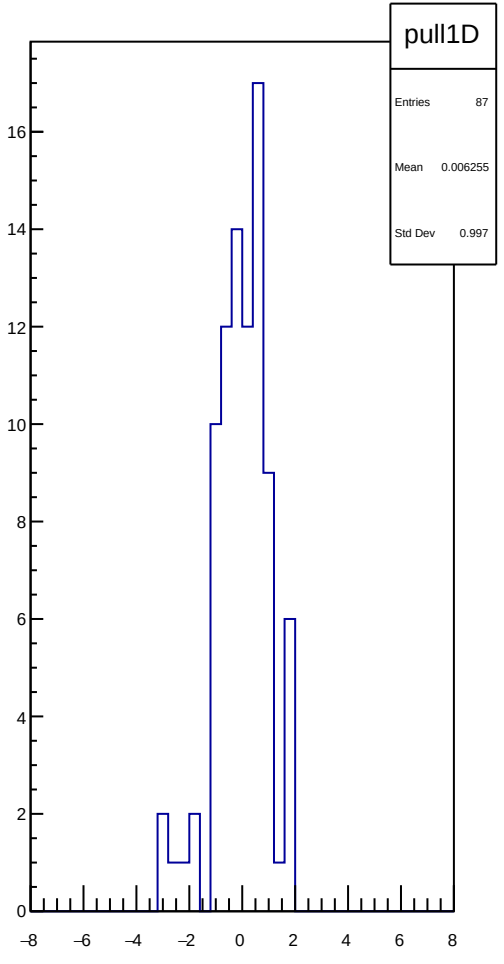

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 8396 / 86
p0 4778 ± 3.61
5600
5400
5200
5000
4800
4600
4400
4200

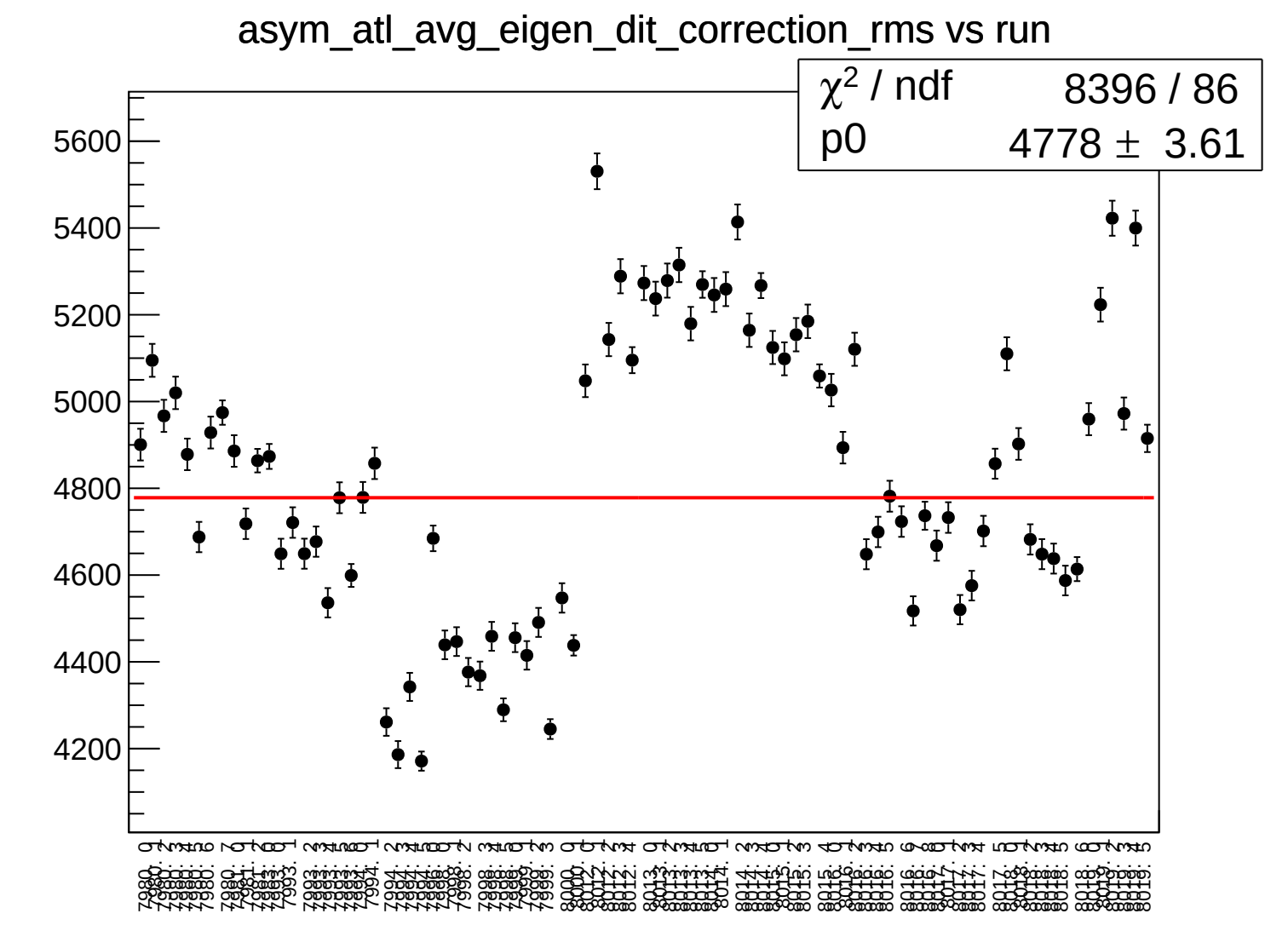

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 117.6 / 86
p0 1356 ± 1749
pull
Entries 87
Mean 109.8
Std Dev 0

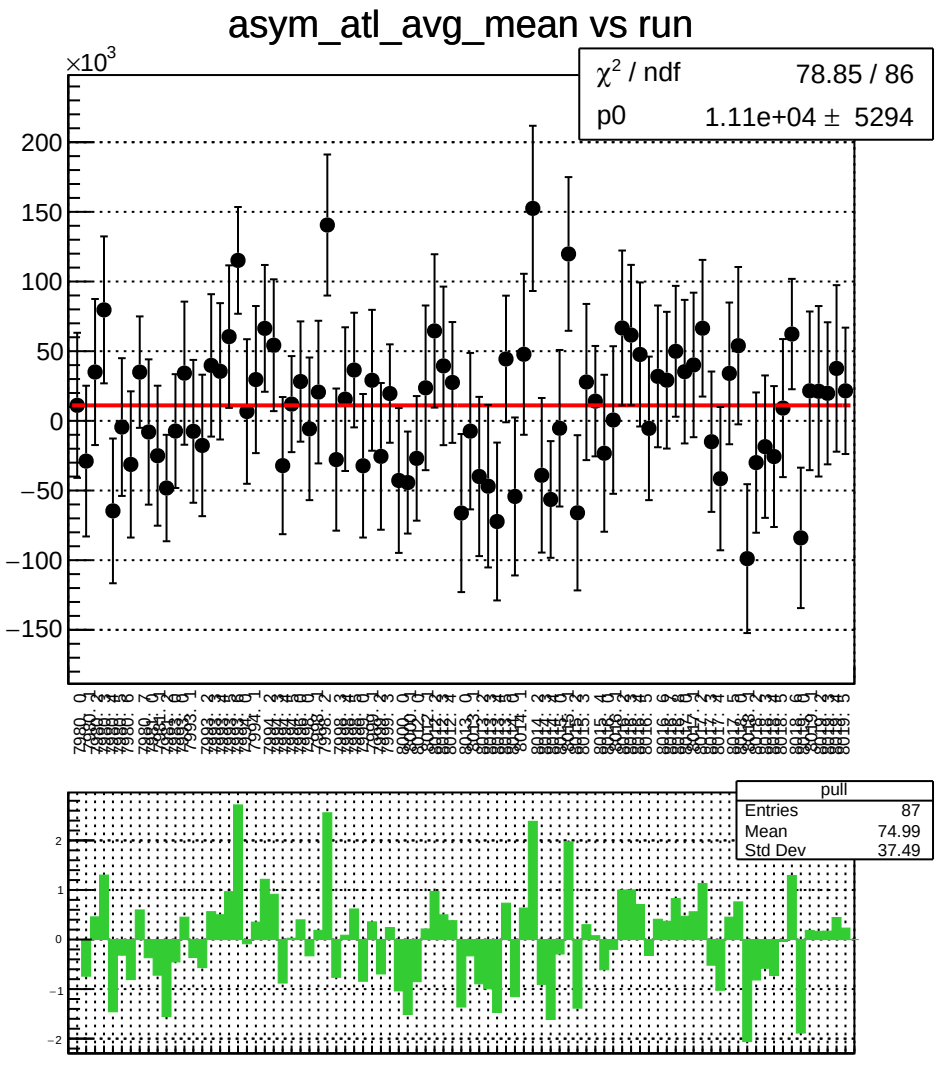

pull1D
Entries 87
Mean −0.02739
Std Dev 1.162

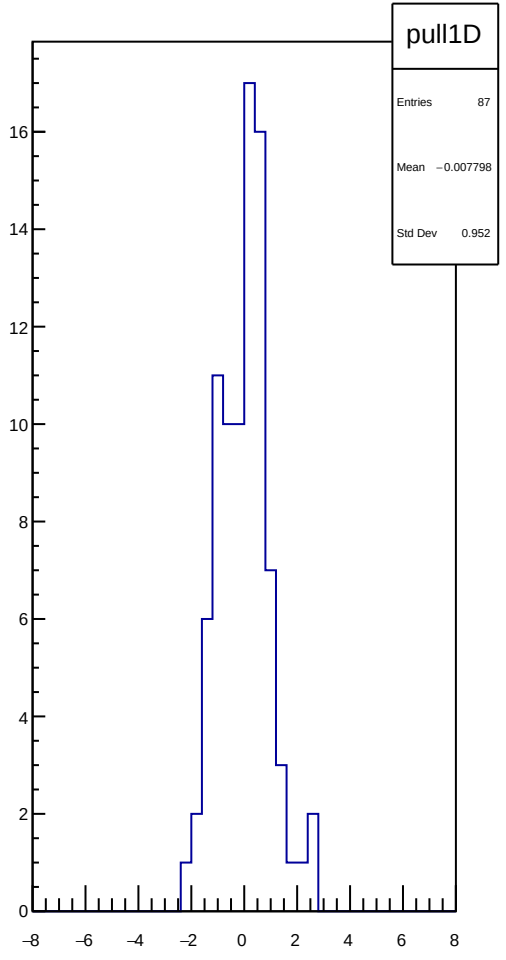

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 751.5 / 86
p0 1641 ± 1.237
1950
1900
1850
1800
1750
1700
1650
1600
1550

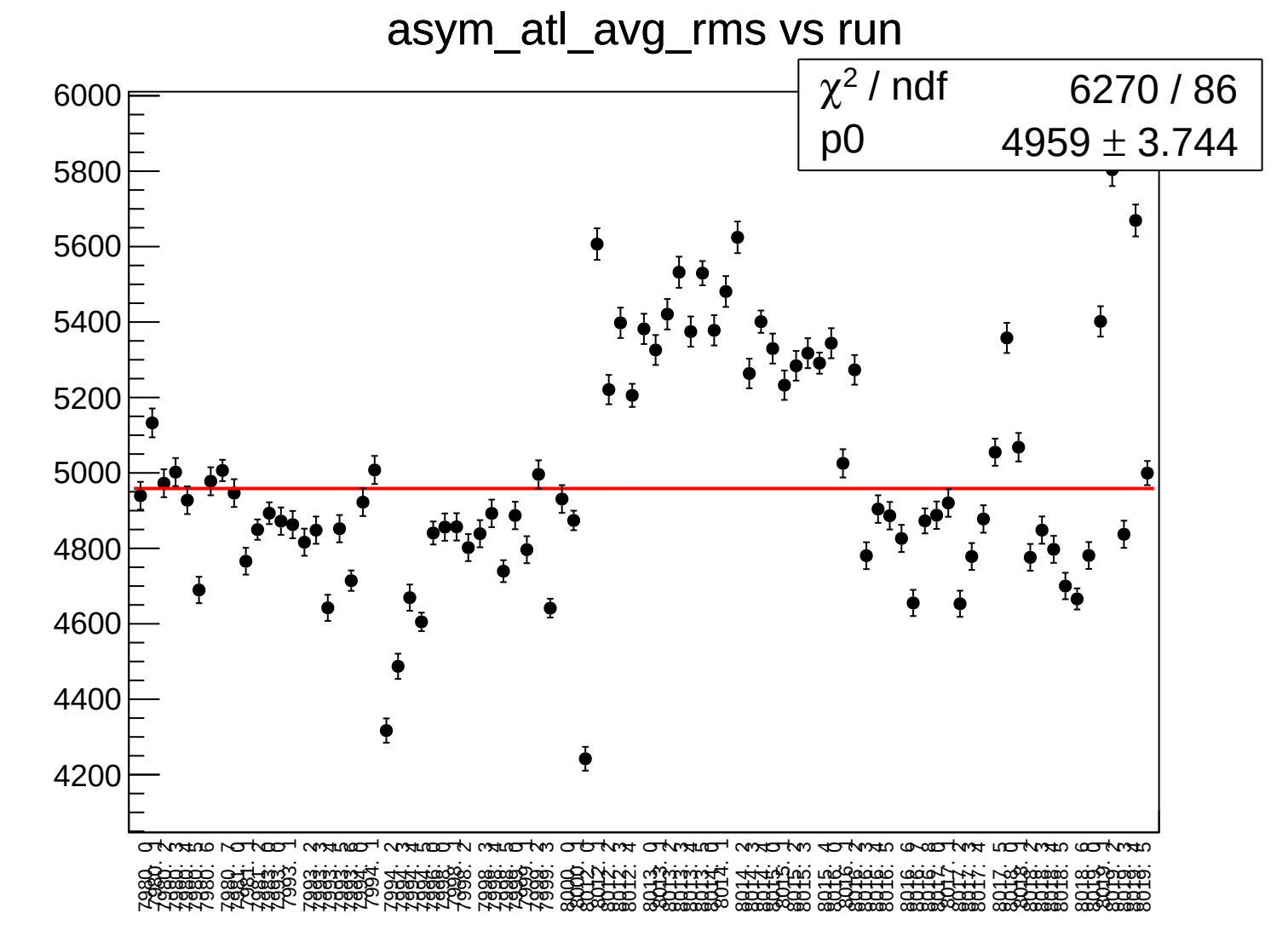

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.48 / 86
p0 −1.045e+04 ± 5105
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 87
Mean −1.956
Std Dev 47.55
2
1
0
−1
−2
−3

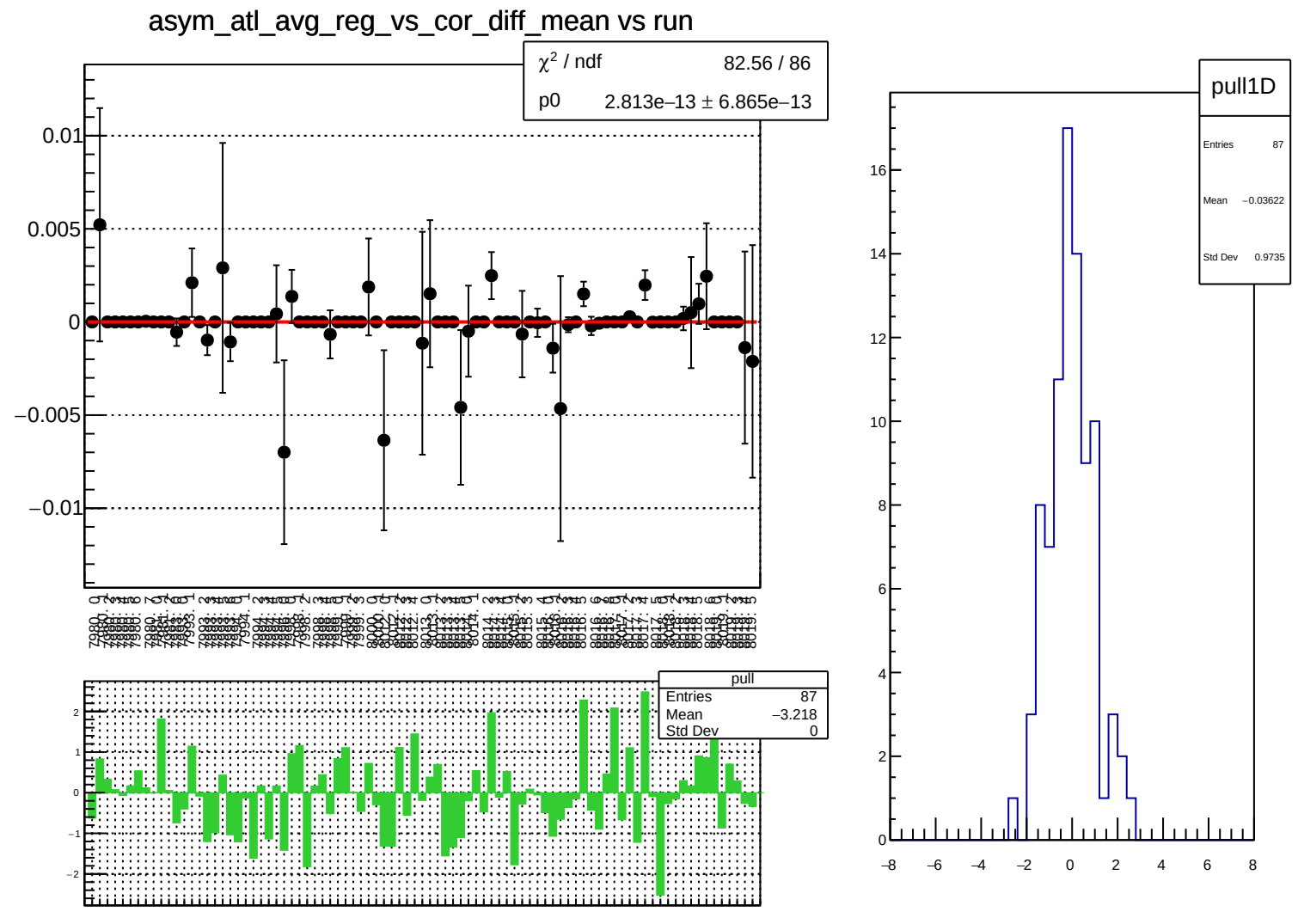

pull1D
Entries 87
Mean 0.006255
Std Dev 0.997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

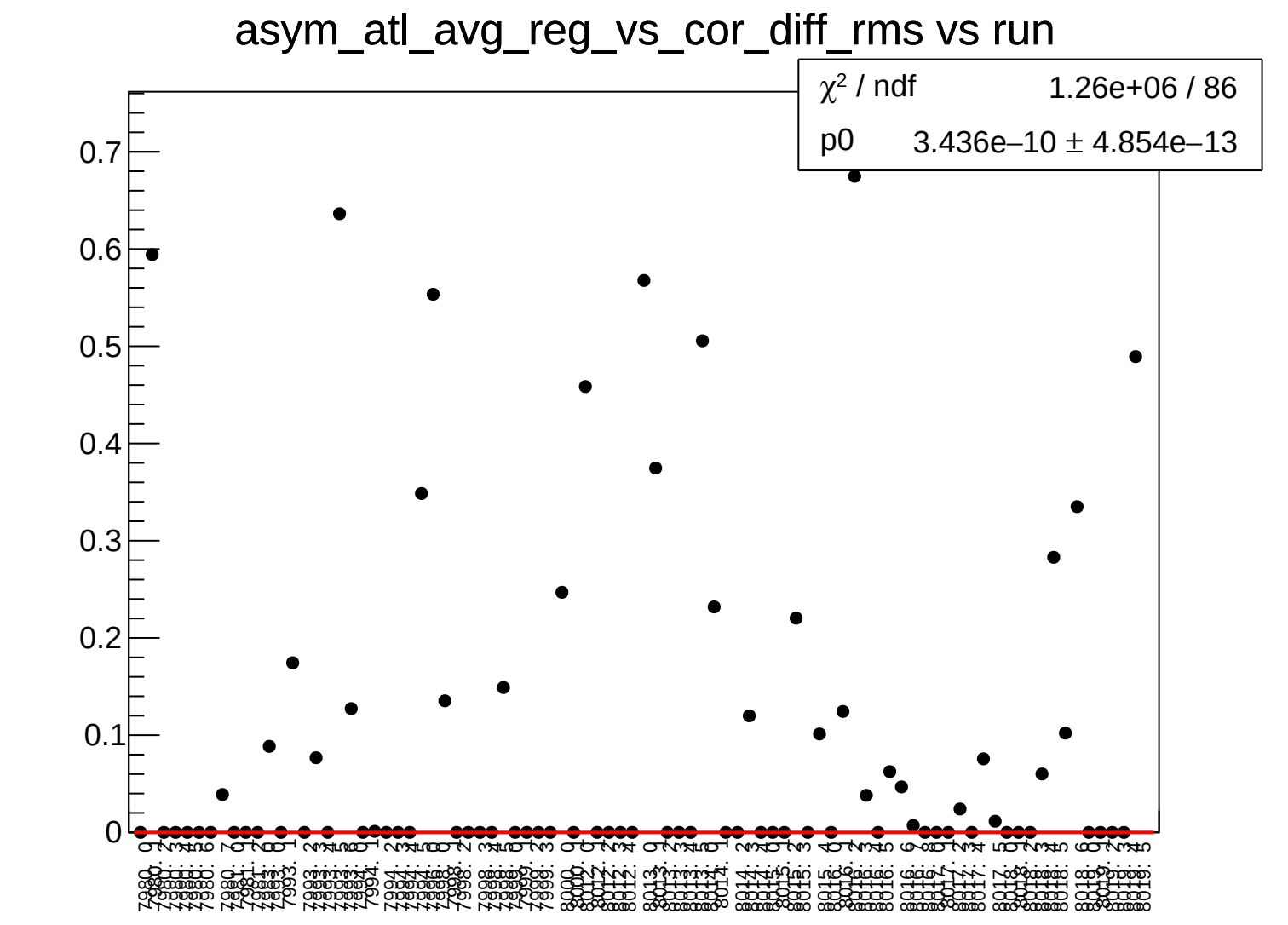

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 8396 / 86
p0 4778 ± 3.61
5600
5400
5200
5000
4800
4600
4400
4200

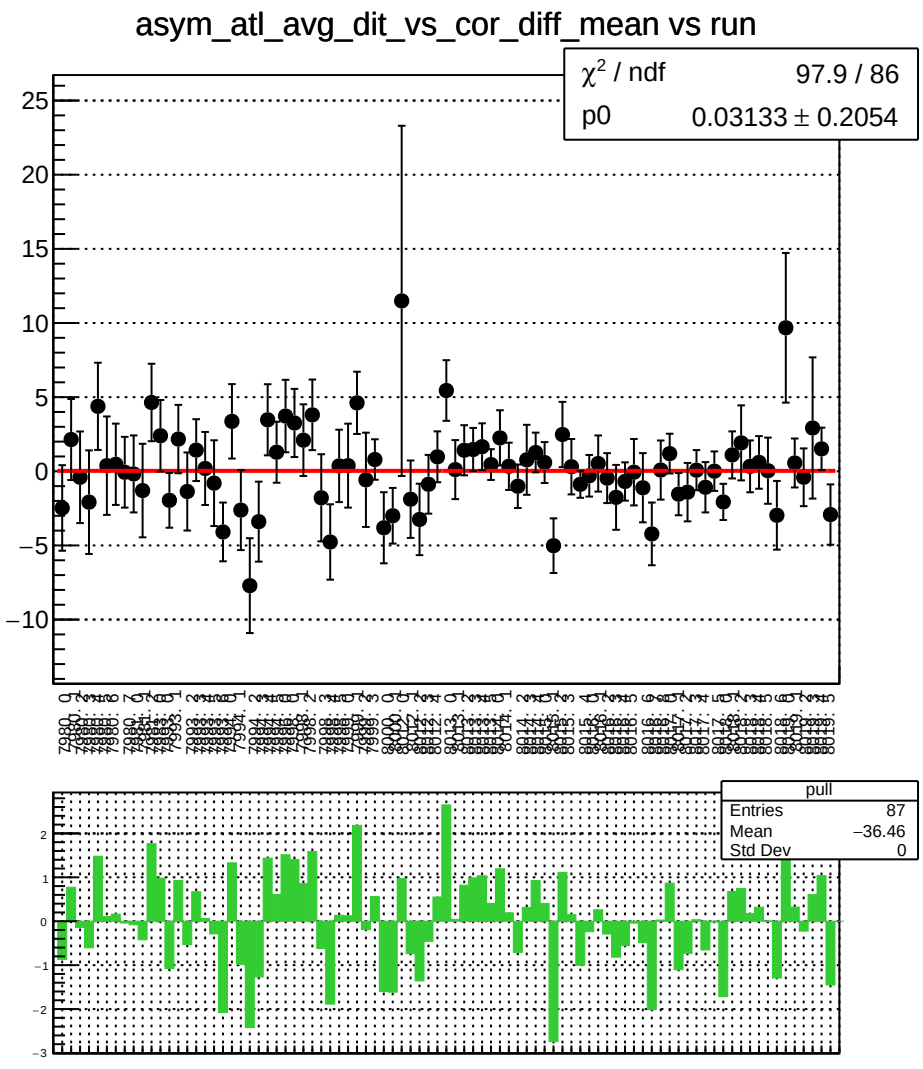

asym_atl_avg_mean vs run
×10^3
χ² / ndf 78.85 / 86
p0 1.11e+04 ± 5294
200
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 74.99
Std Dev 37.49
2
1
0
−1
−2

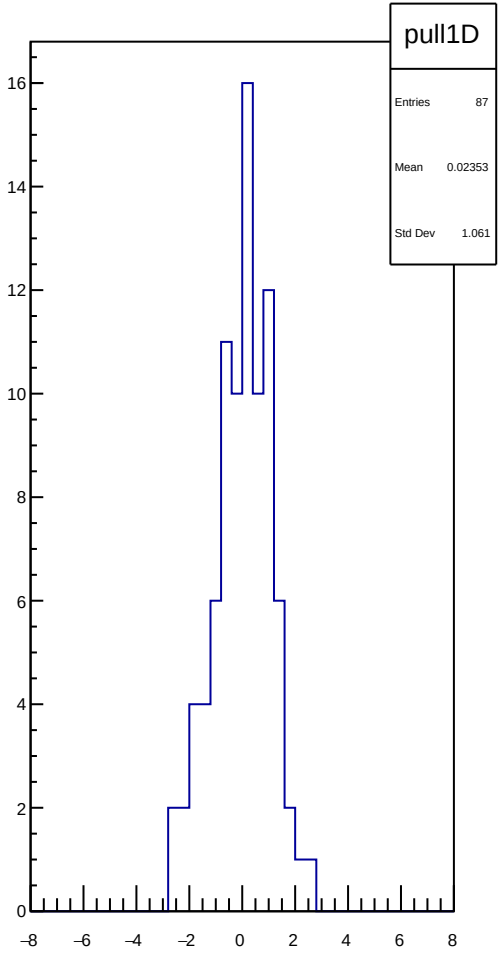

pull1D
Entries 87
Mean −0.007798
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

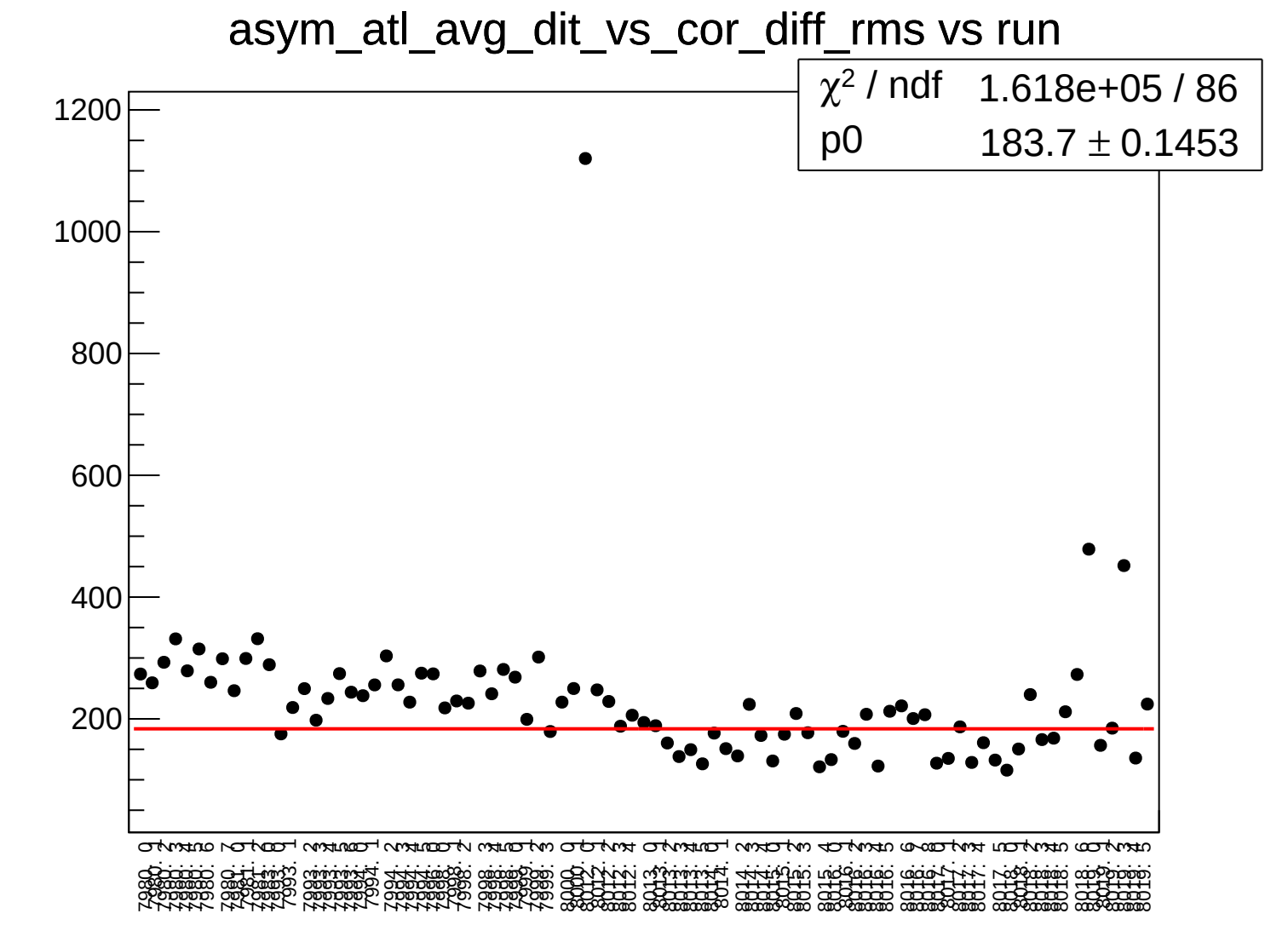

asym_atl_avg_rms vs run
χ² / ndf 6270 / 86
p0 4959 ± 3.744
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

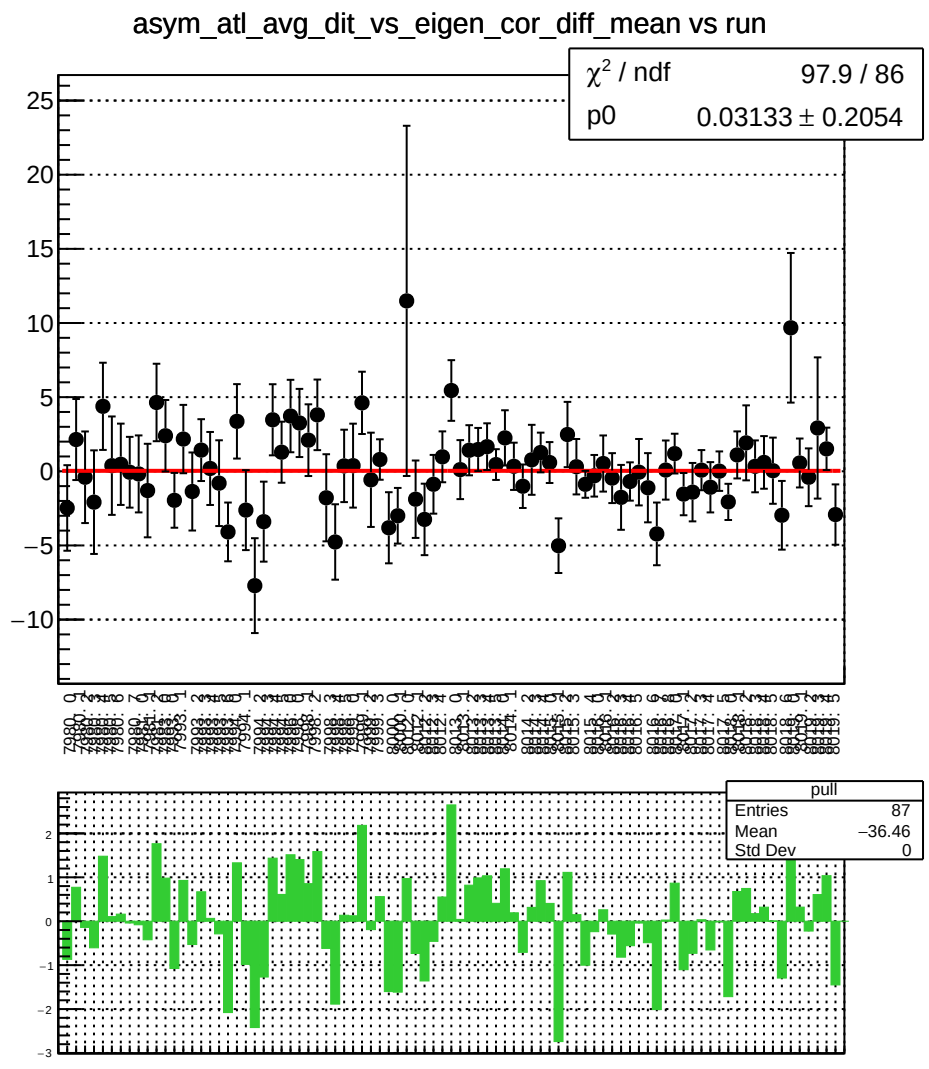

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.56 / 86
p0 2.813e−13 ± 6.865e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean −3.218
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.03622
Std Dev 0.9735
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

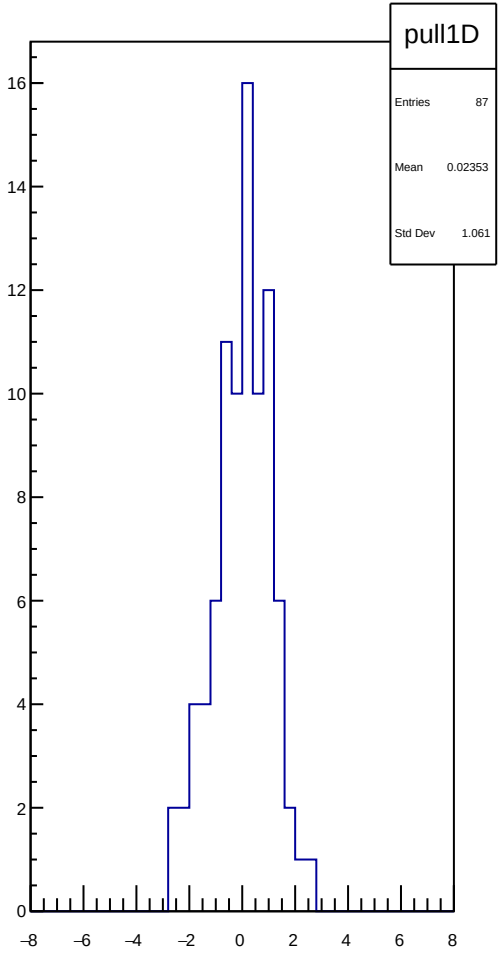

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.26e+06 / 86
p0 3.436e−10 ± 4.854e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

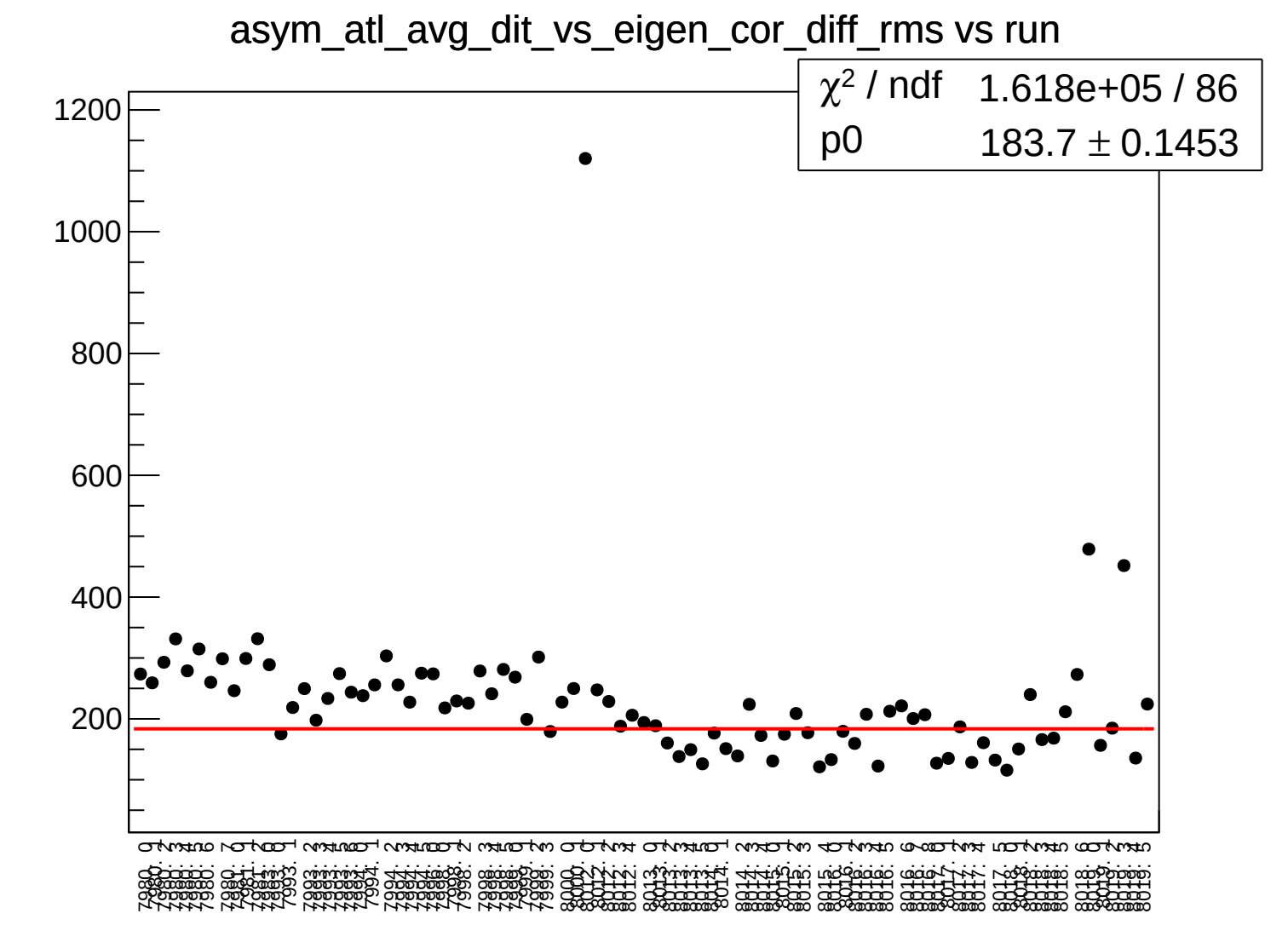

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.9 / 86
p0 0.03133 ± 0.2054
pull
Entries 87
Mean −36.46
Std Dev 0

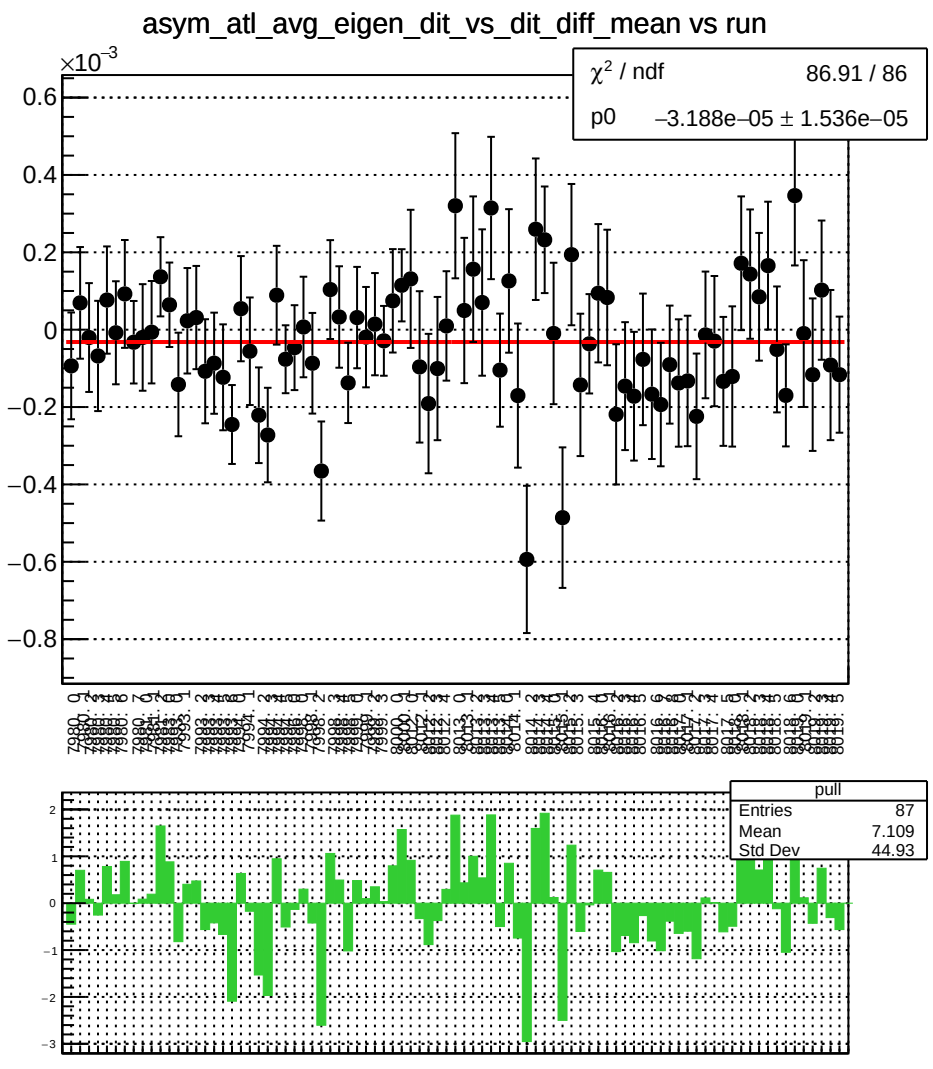

pull1D
Entries 87
Mean 0.02353
Std Dev 1.061

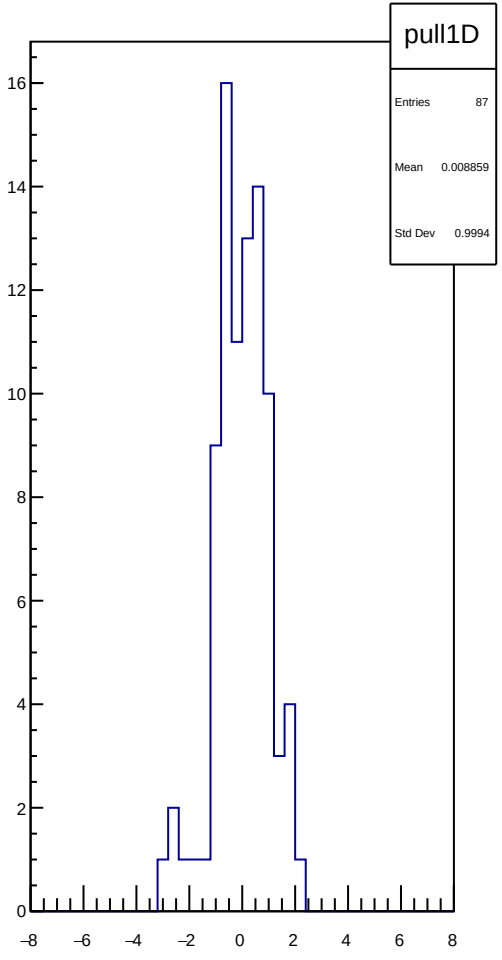

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.618e+05 / 86
p0 183.7 ± 0.1453
1200
1000
800
600
400
200

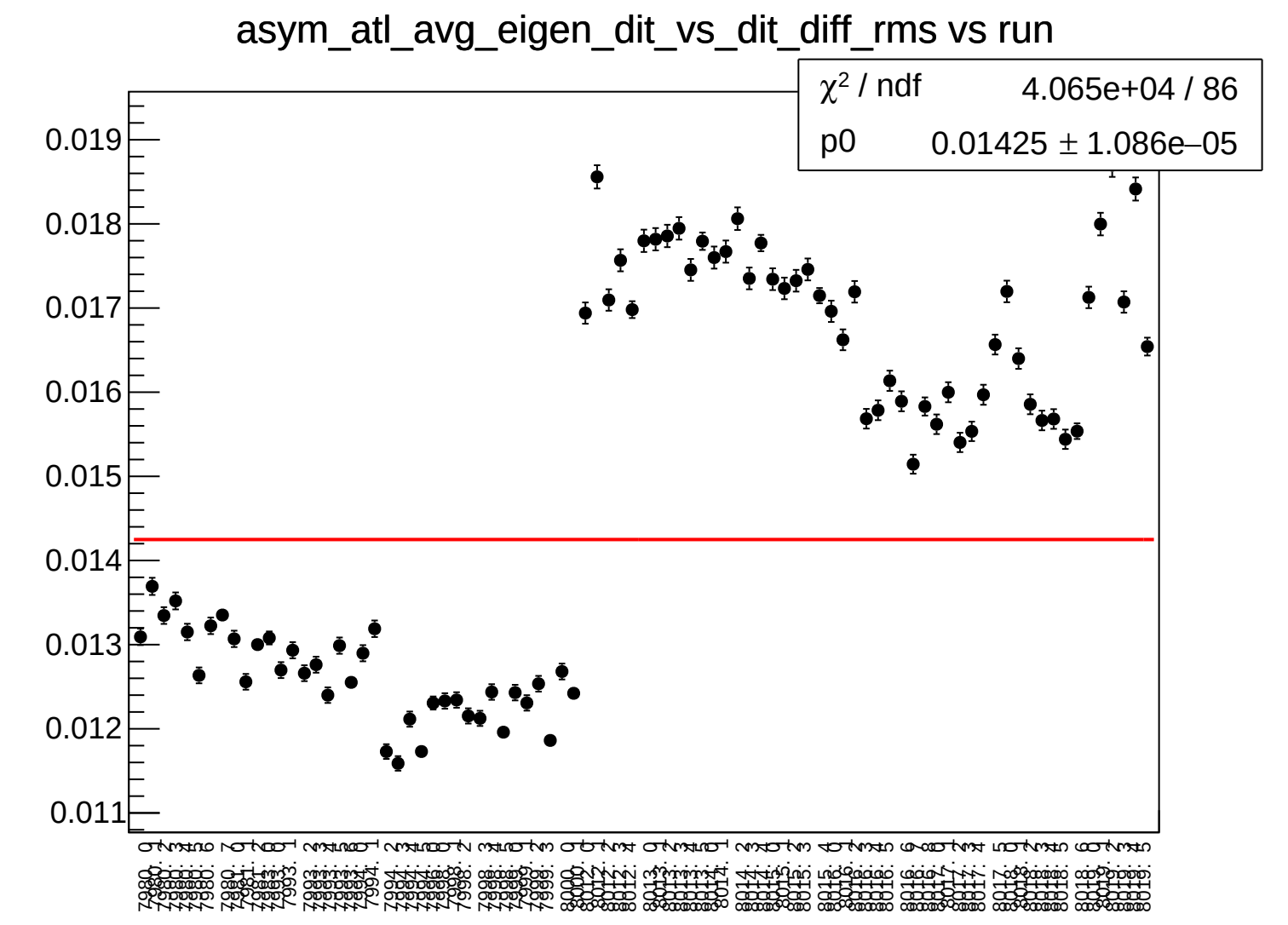

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.9 / 86
p0 0.03133 ± 0.2054
pull
Entries 87
Mean −36.46
Std Dev 0

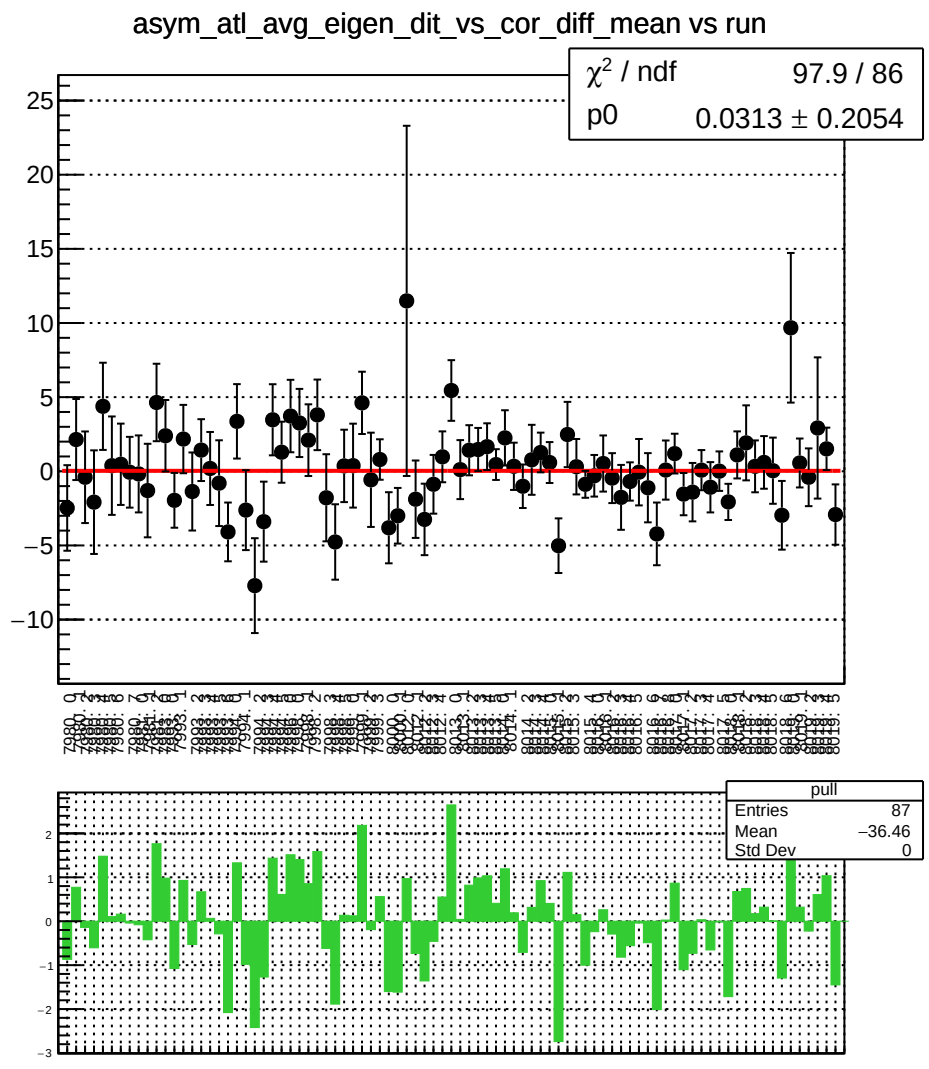

pull1D
Entries 87
Mean 0.02353
Std Dev 1.061

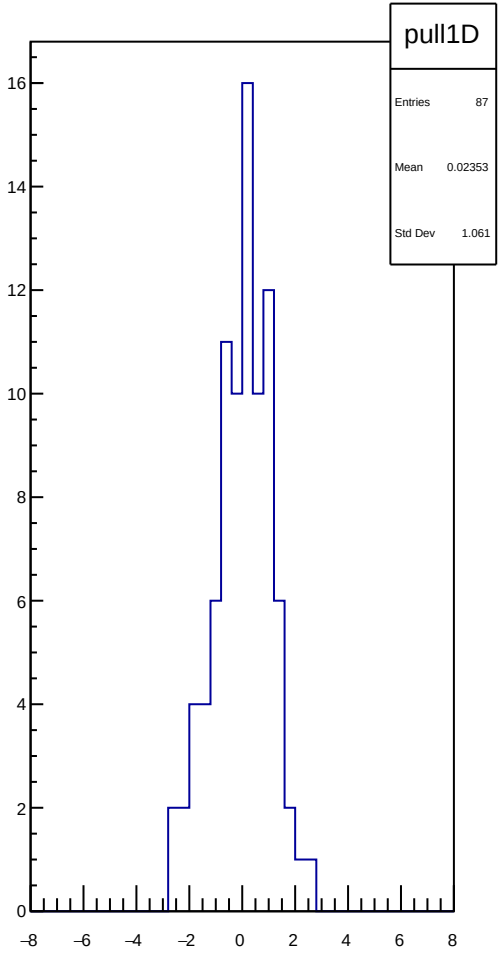

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.618e+05 / 86
p0 183.7 ± 0.1453
1200
1000
800
600
400
200

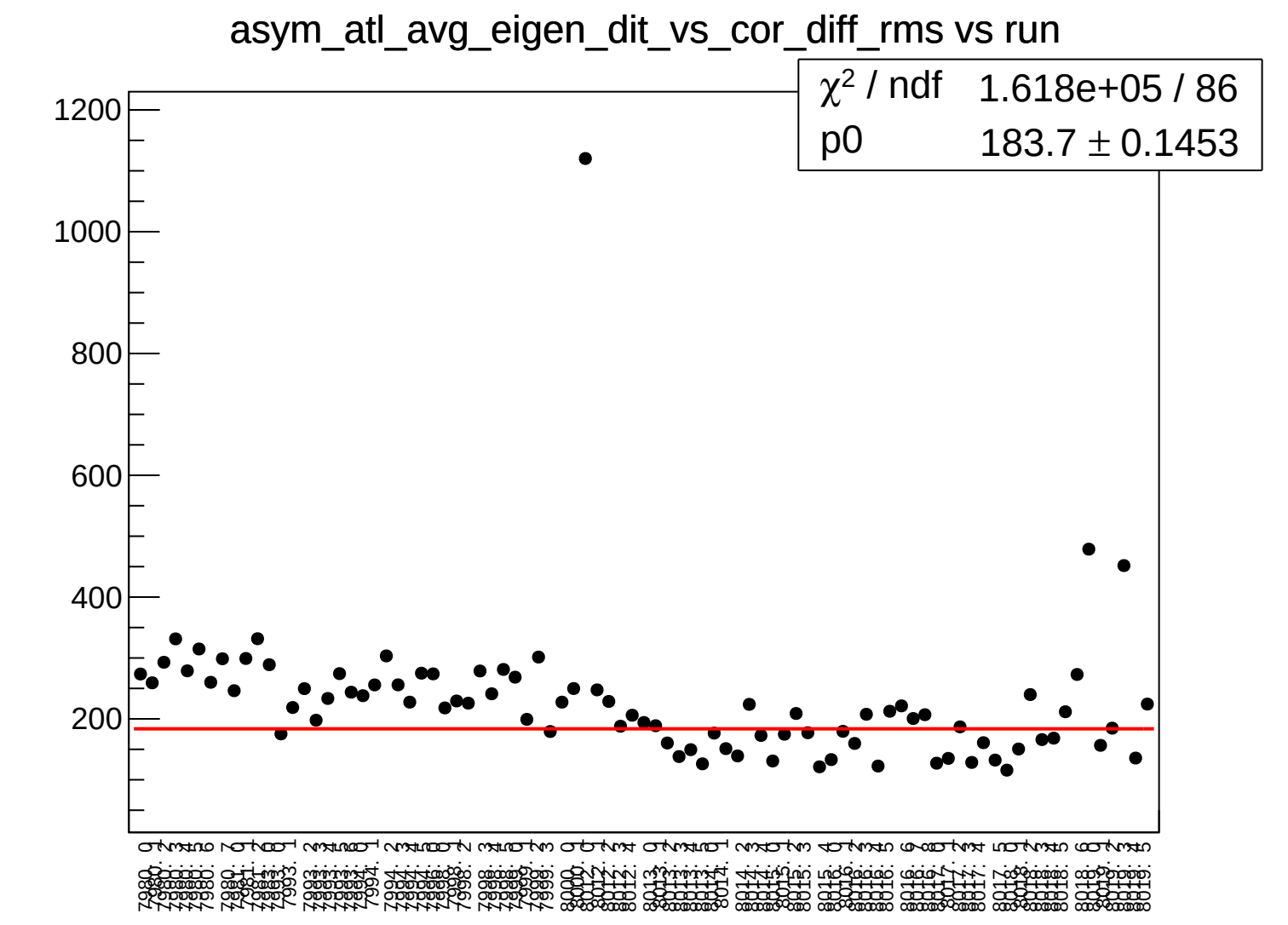

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.91 / 86
p0 −3.188e−05 ± 1.536e−05
pull
Entries 87
Mean 7.109
Std Dev 44.93

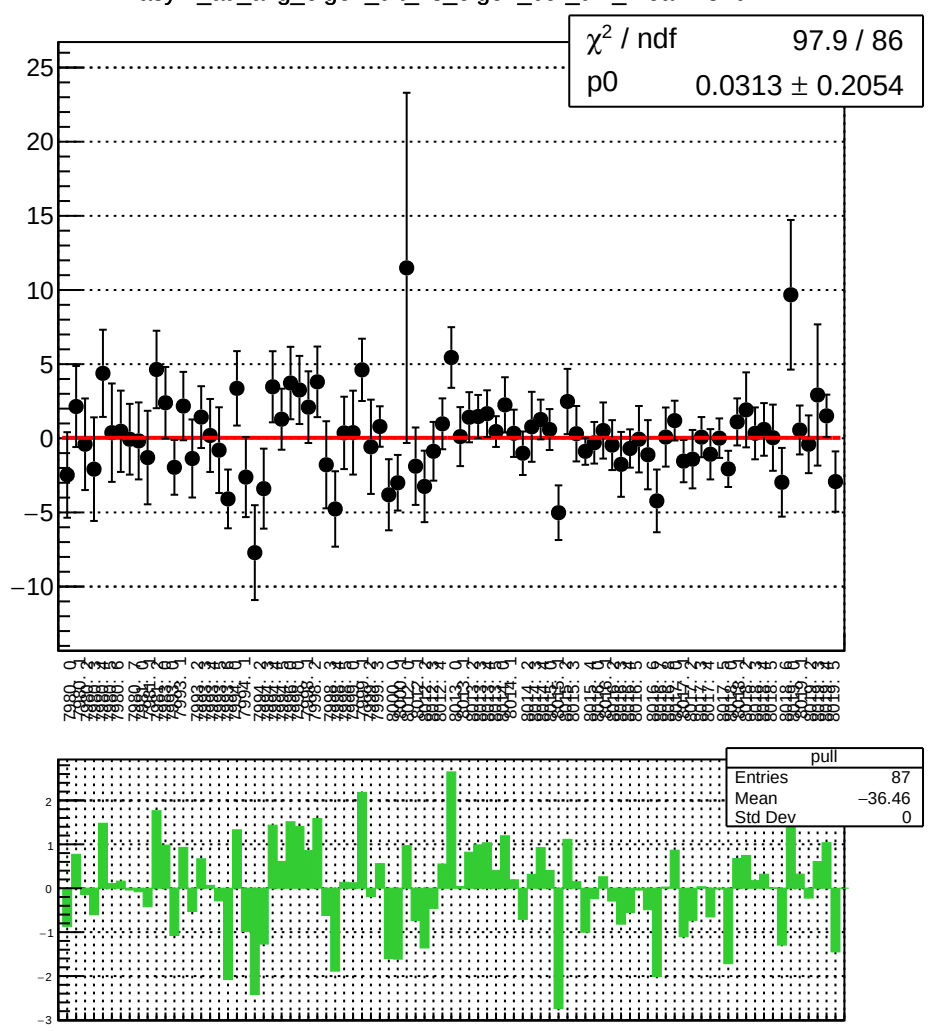

pull1D
Entries 87
Mean 0.008859
Std Dev 0.9994

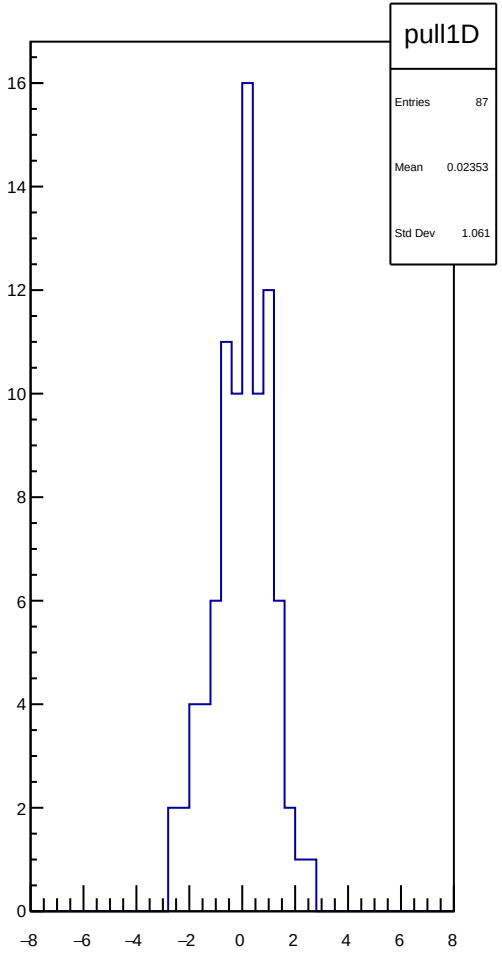

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.065e+04 / 86
p0 0.01425 ± 1.086e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

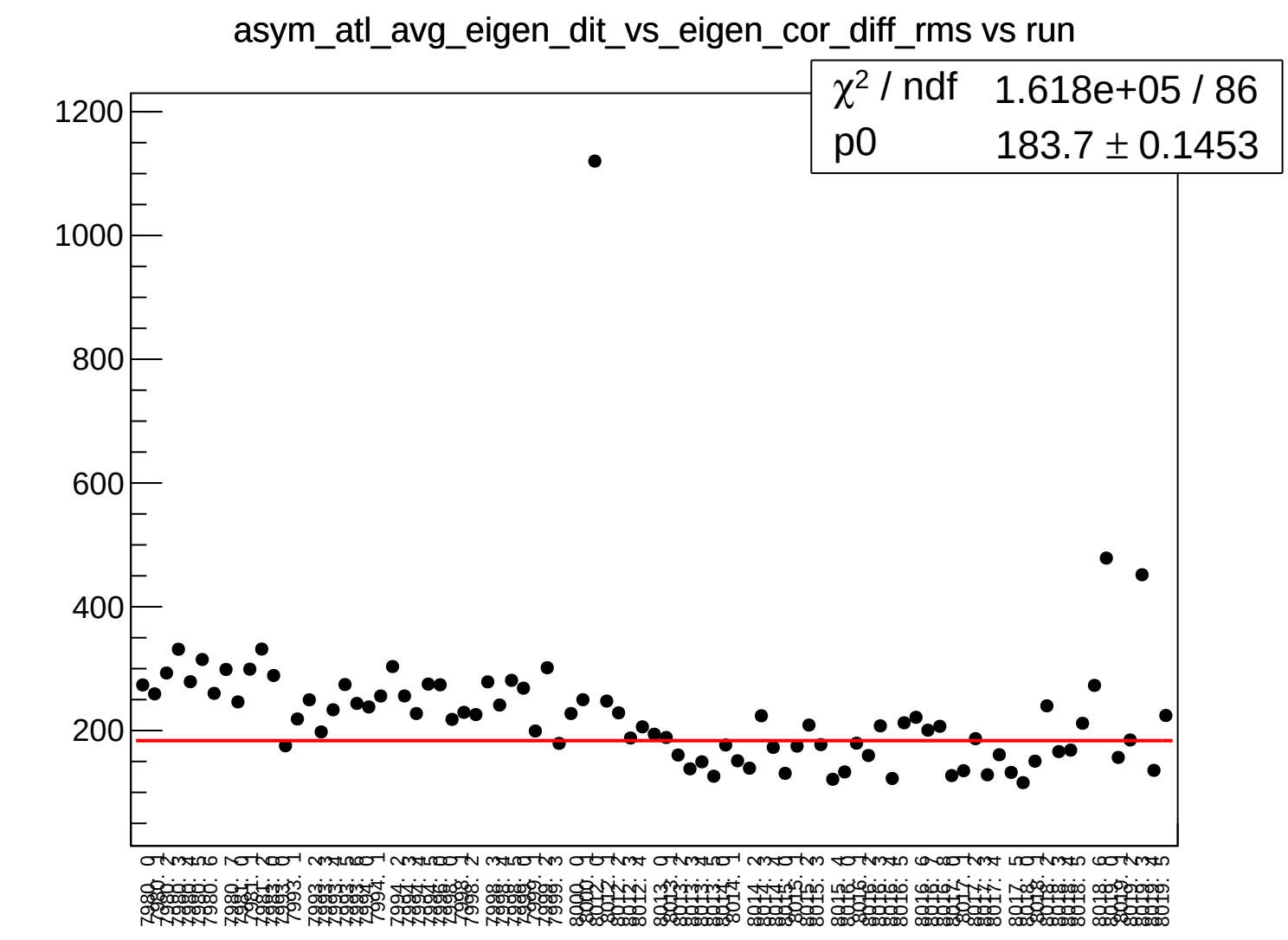

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.9 / 86
p0 0.0313 ± 0.2054
pull
Entries 87
Mean −36.46
Std Dev 0

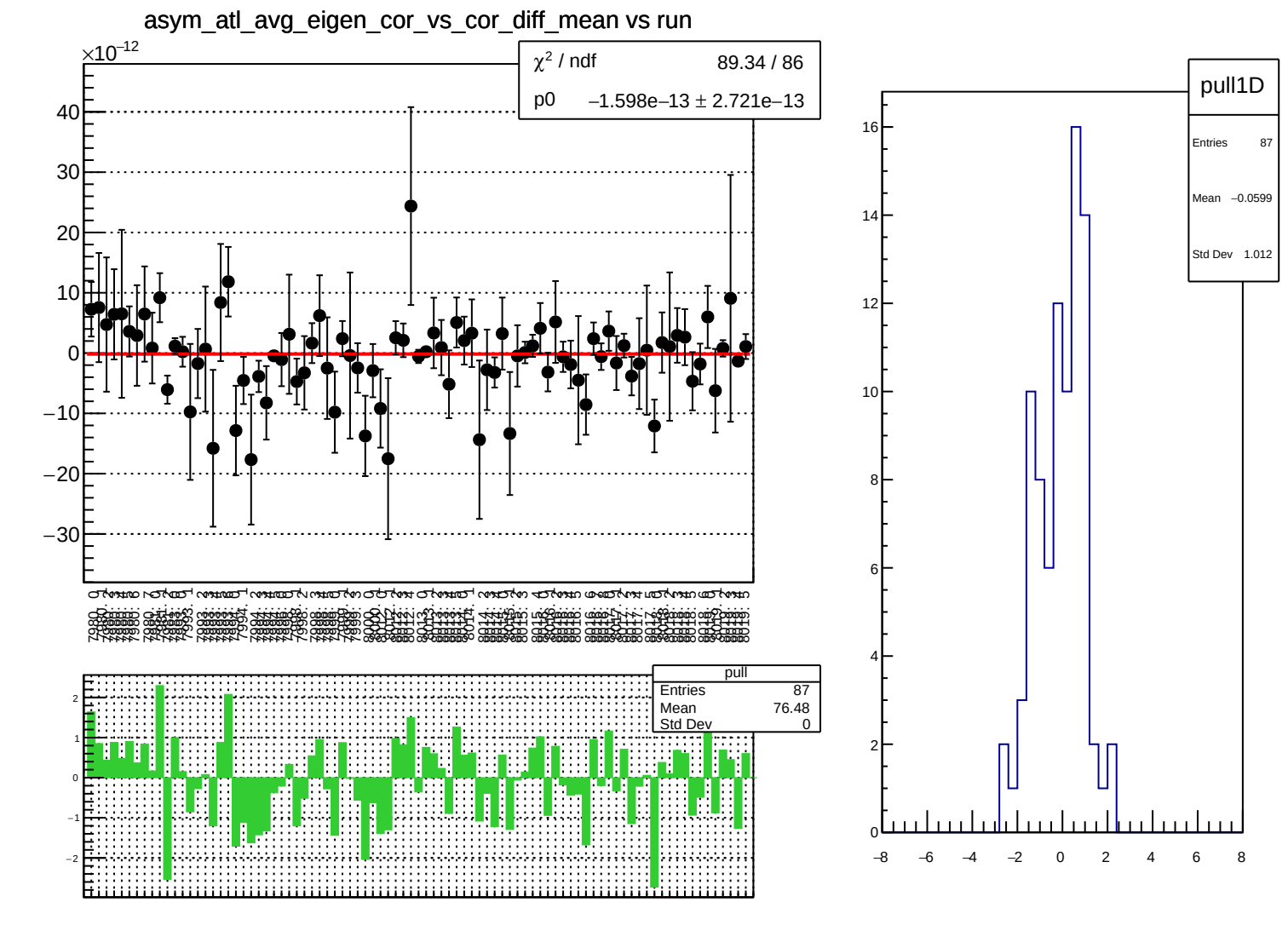

pull1D
Entries 87
Mean 0.02353
Std Dev 1.061

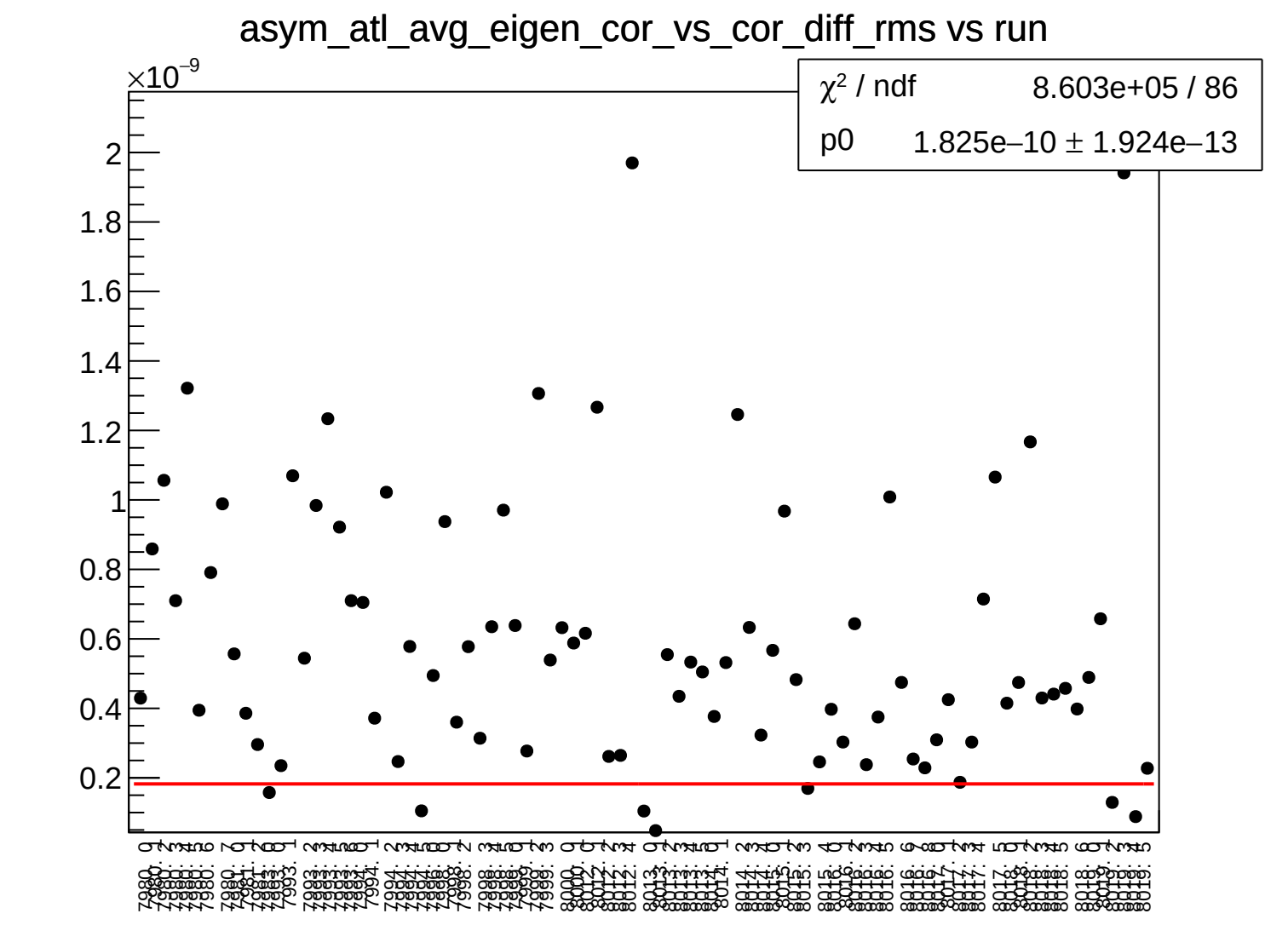

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.618e+05 / 86
p0 183.7 ± 0.1453
1200
1000
800
600
400
200

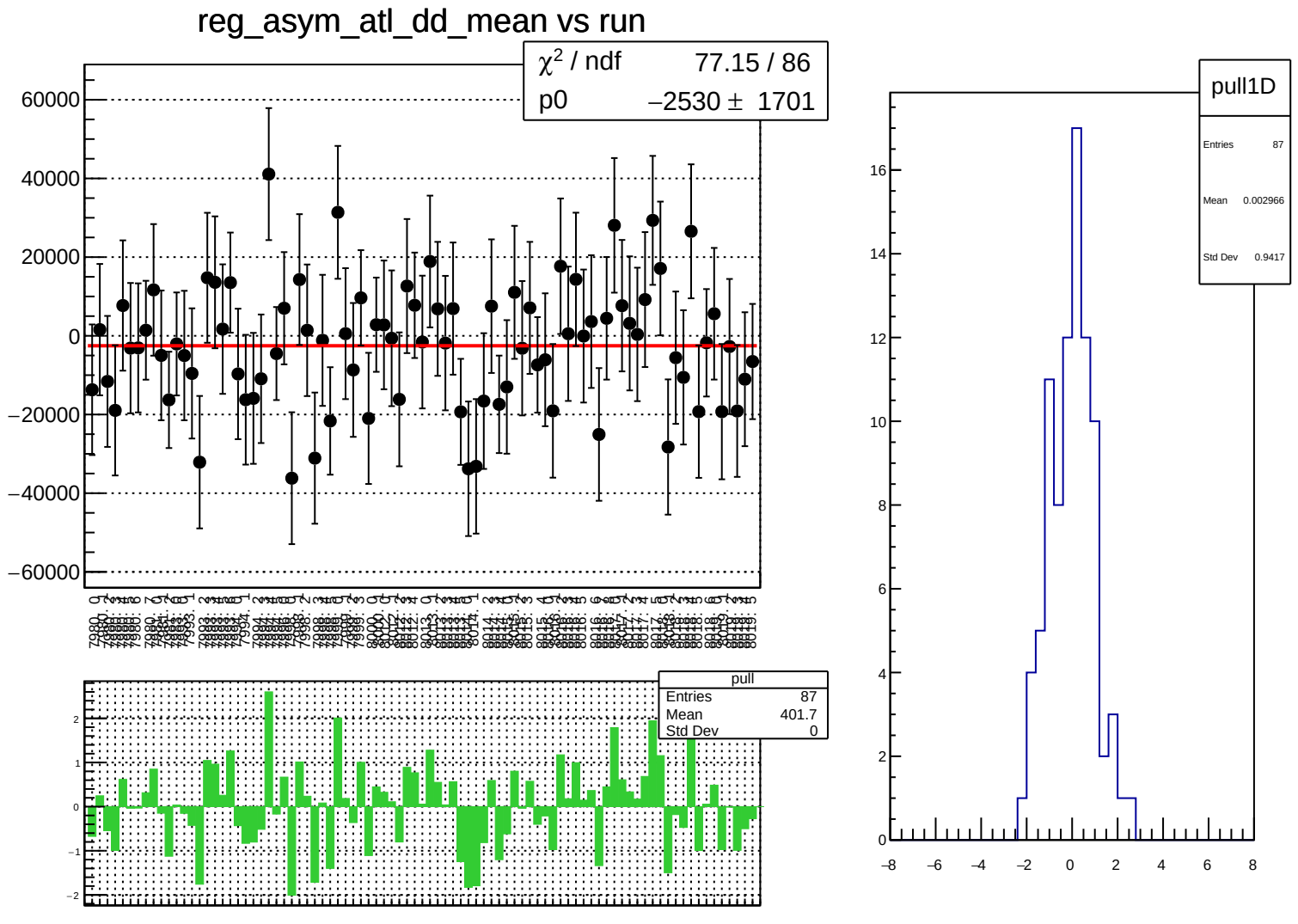

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.9 / 86
p0 0.0313 ± 0.2054
pull
Entries 87
Mean −36.46
Std Dev 0

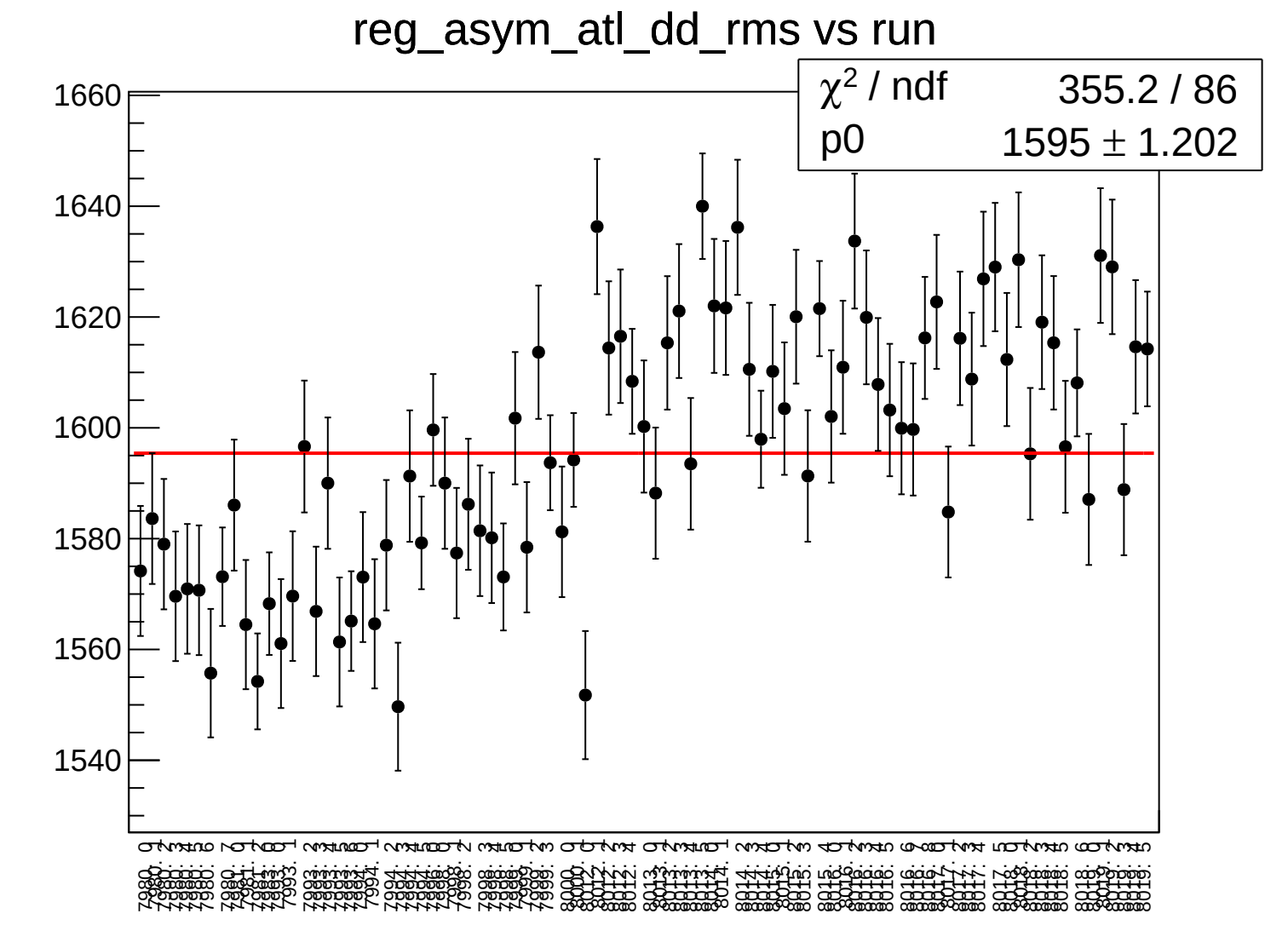

pull1D
Entries 87
Mean 0.02353
Std Dev 1.061

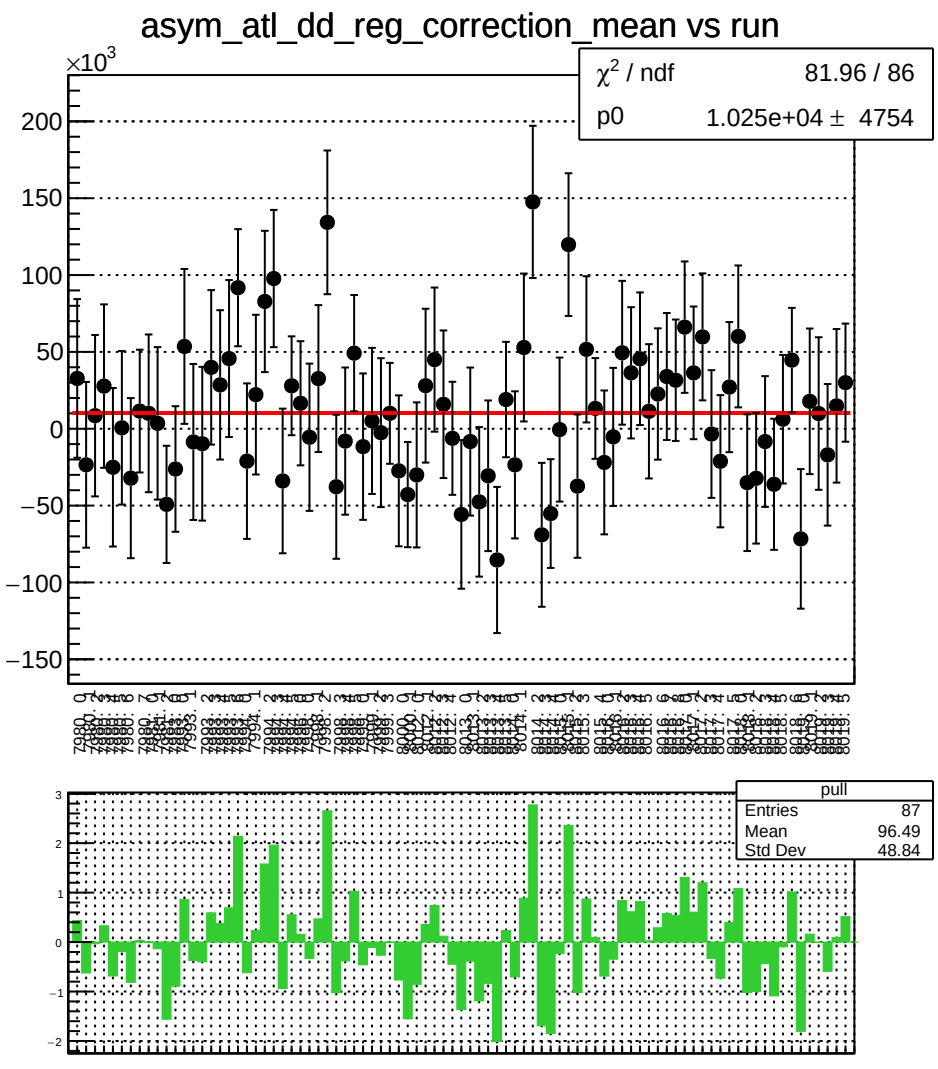

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.618e+05 / 86
p0 183.7 ± 0.1453
1200
1000
800
600
400
200

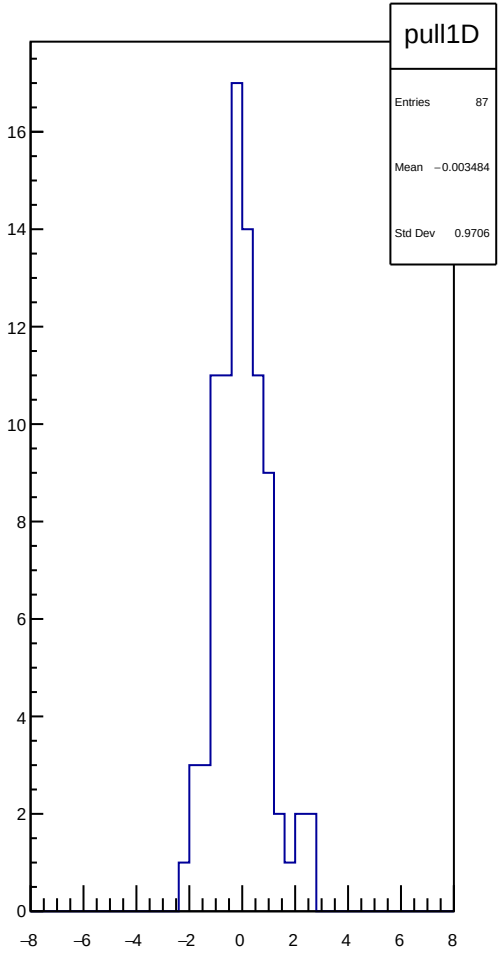

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.34 / 86
p0 −1.598e−13 ± 2.721e−13
pull
Entries 87
Mean 76.48
Std Dev 0
pull1D
Entries 87
Mean −0.0599
Std Dev 1.012

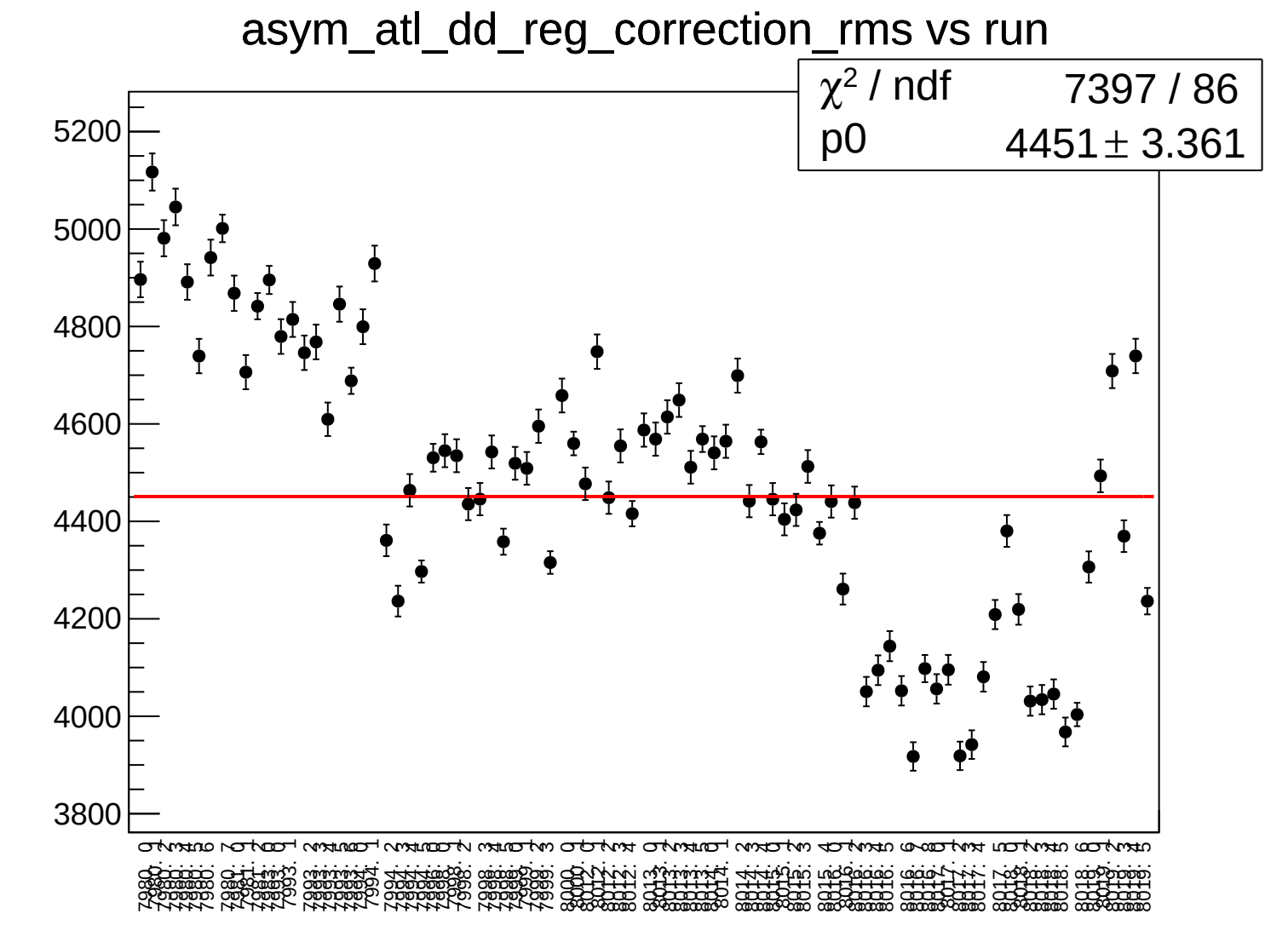

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.603e+05 / 86
p0 1.825e−10 ± 1.924e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

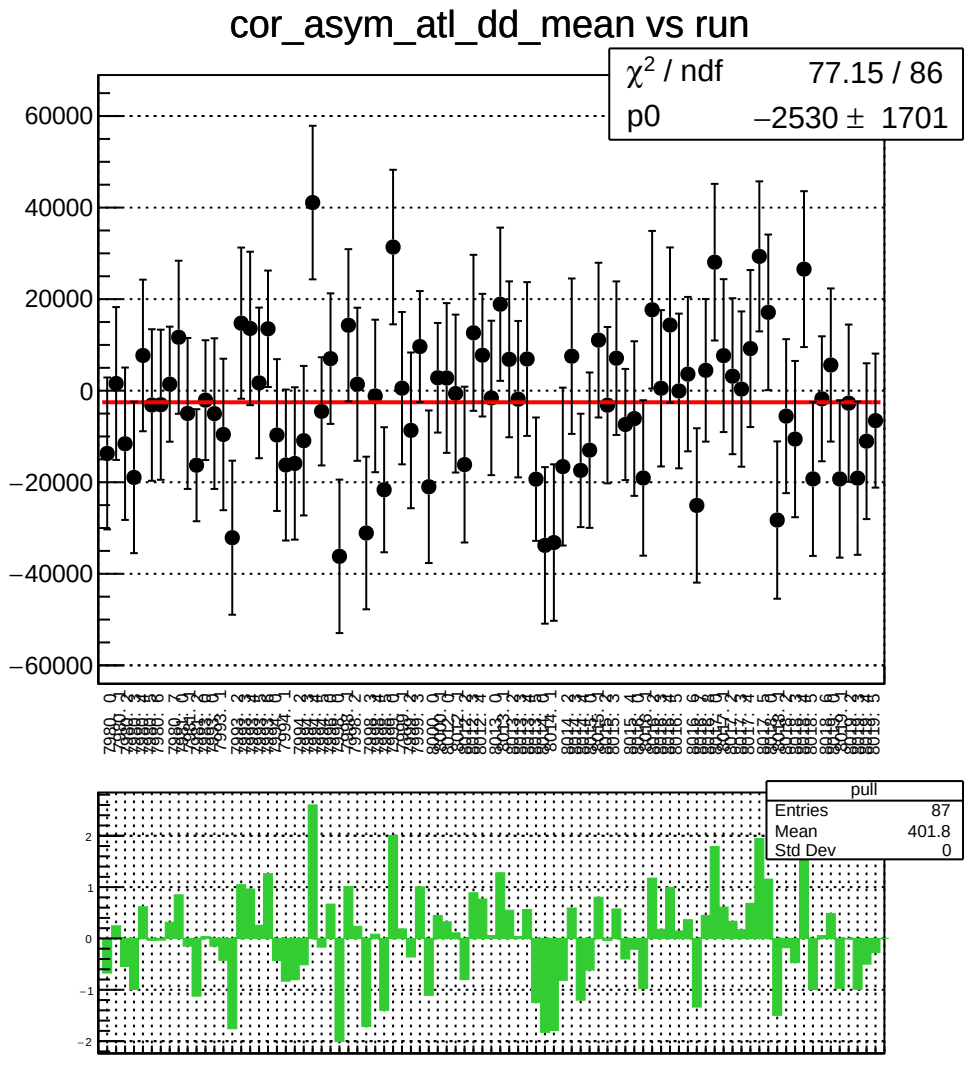

reg_asym_atl_dd_mean vs run
χ² / ndf 77.15 / 86
p0 −2530 ± 1701
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 401.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.002966
Std Dev 0.9417
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

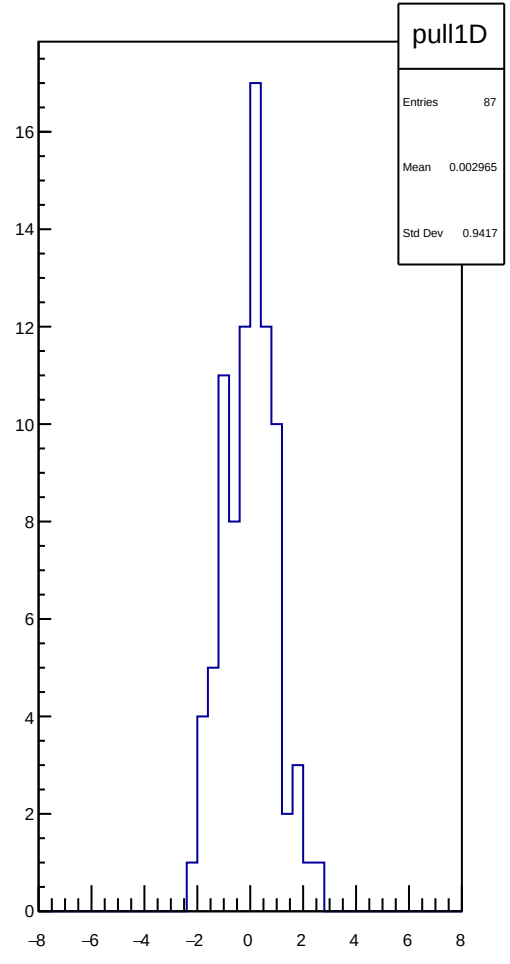

reg_asym_atl_dd_rms vs run
χ² / ndf 355.2 / 86
p0 1595 ± 1.202
1660
1640
1620
1600
1580
1560
1540

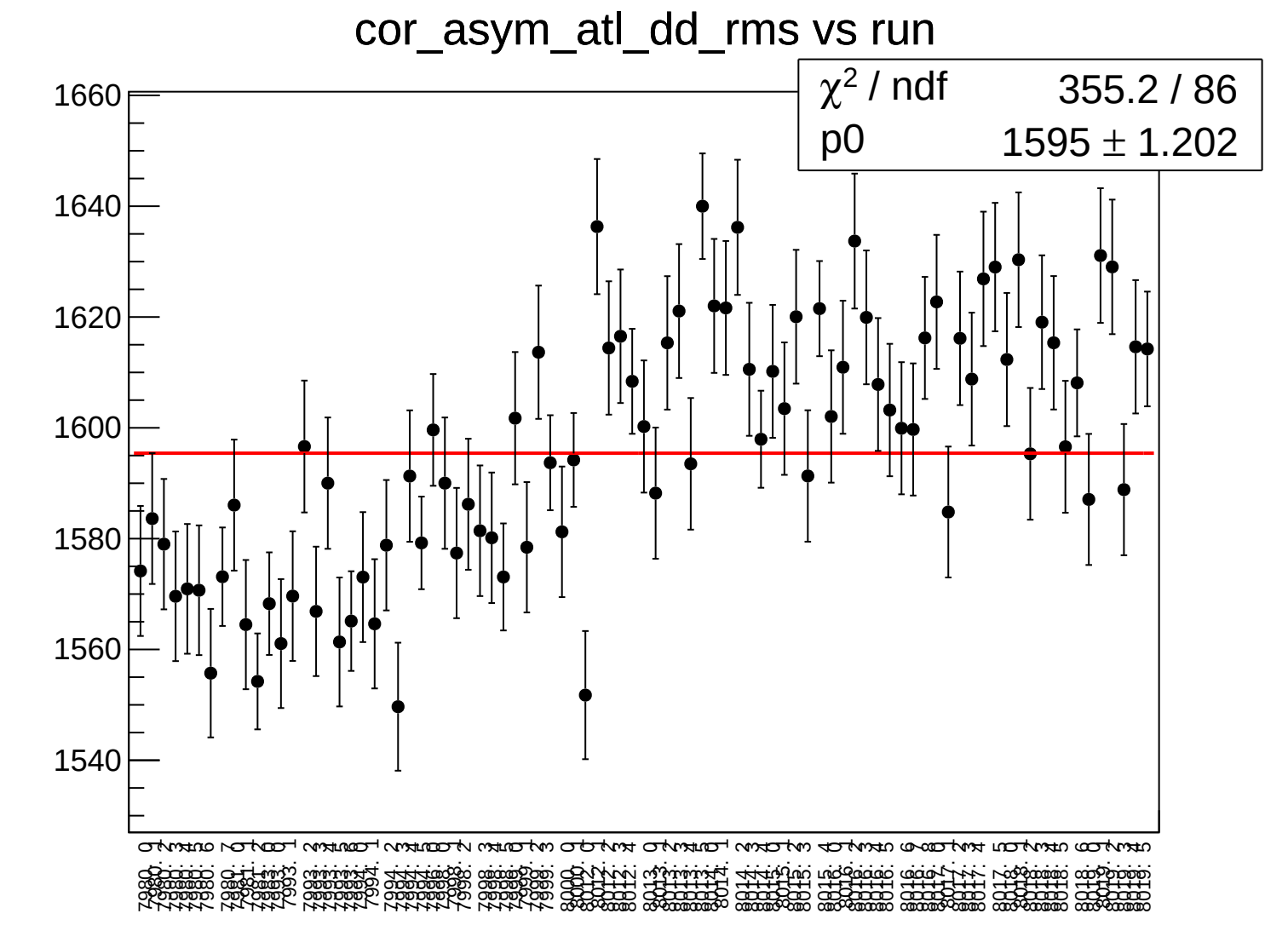

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 81.96 / 86
p0 1.025e+04 ± 4754
pull
Entries 87
Mean 96.49
Std Dev 48.84

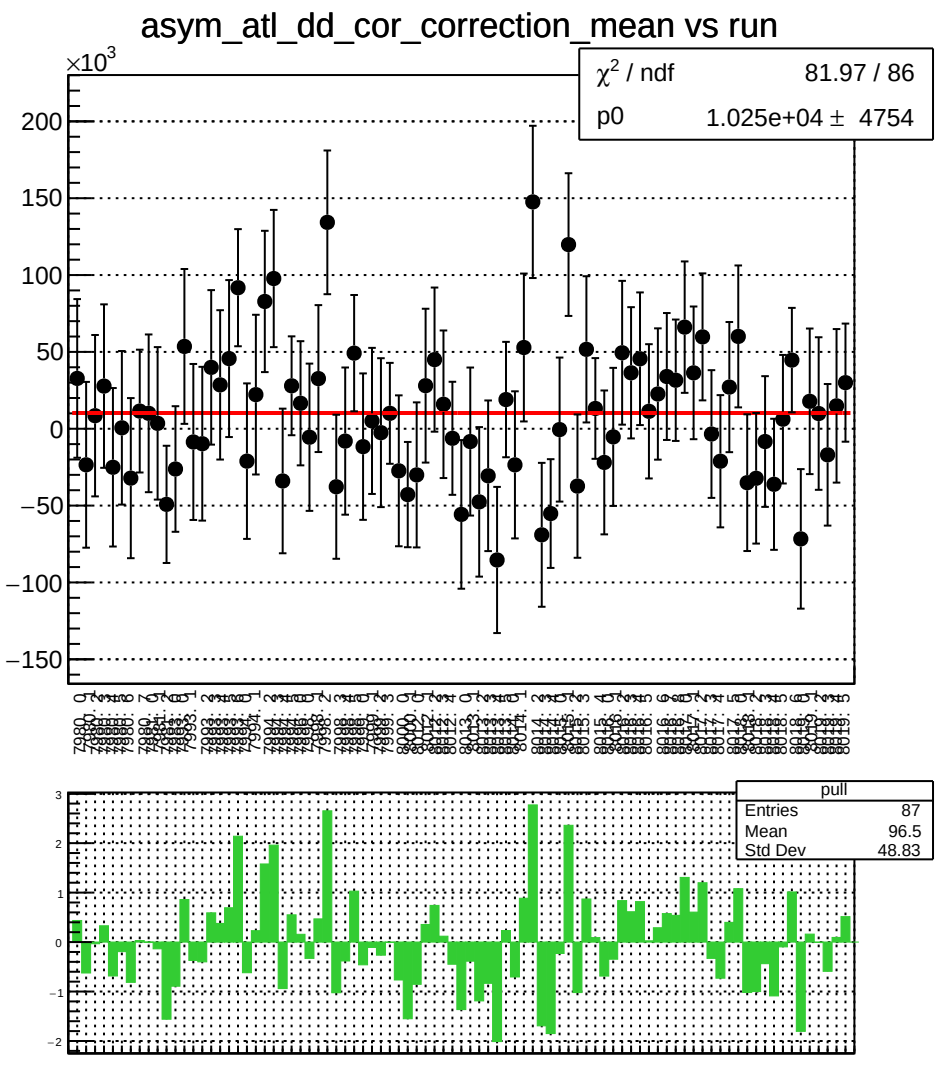

pull1D
Entries 87
Mean −0.003484
Std Dev 0.9706

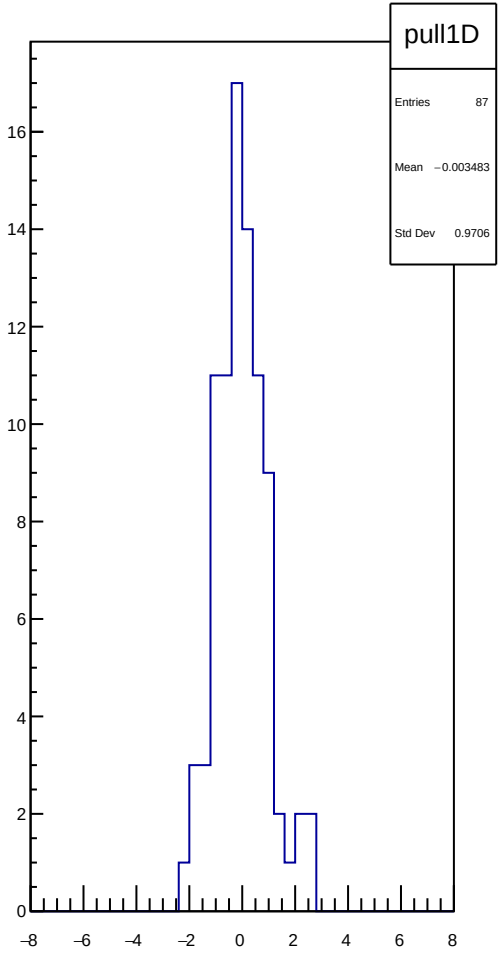

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 7397 / 86
p0 4451 ± 3.361
5200
5000
4800
4600
4400
4200
4000
3800

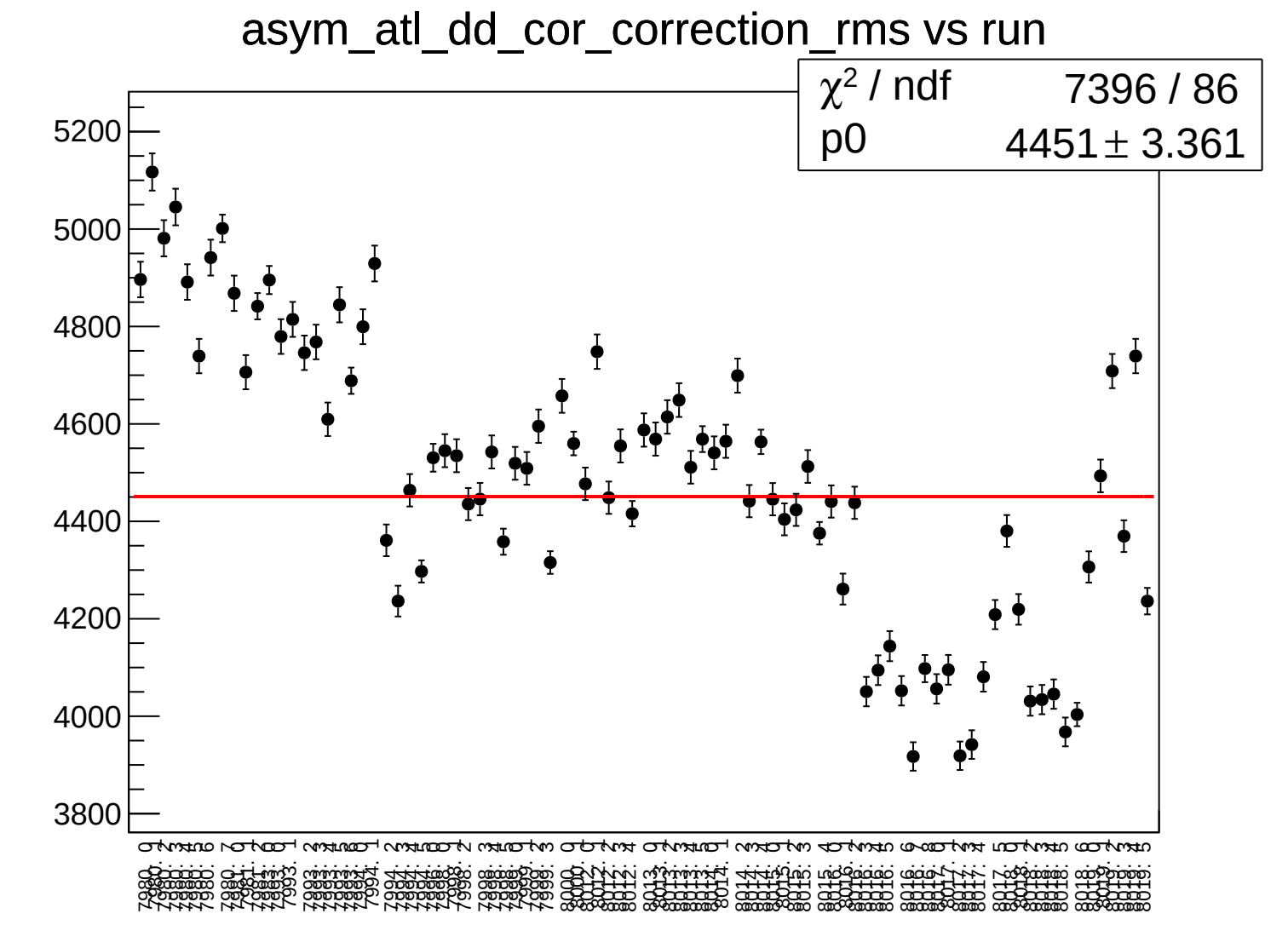

cor_asym_atl_dd_mean vs run
χ² / ndf 77.15 / 86
p0 −2530 ± 1701
pull
Entries 87
Mean 401.8
Std Dev 0

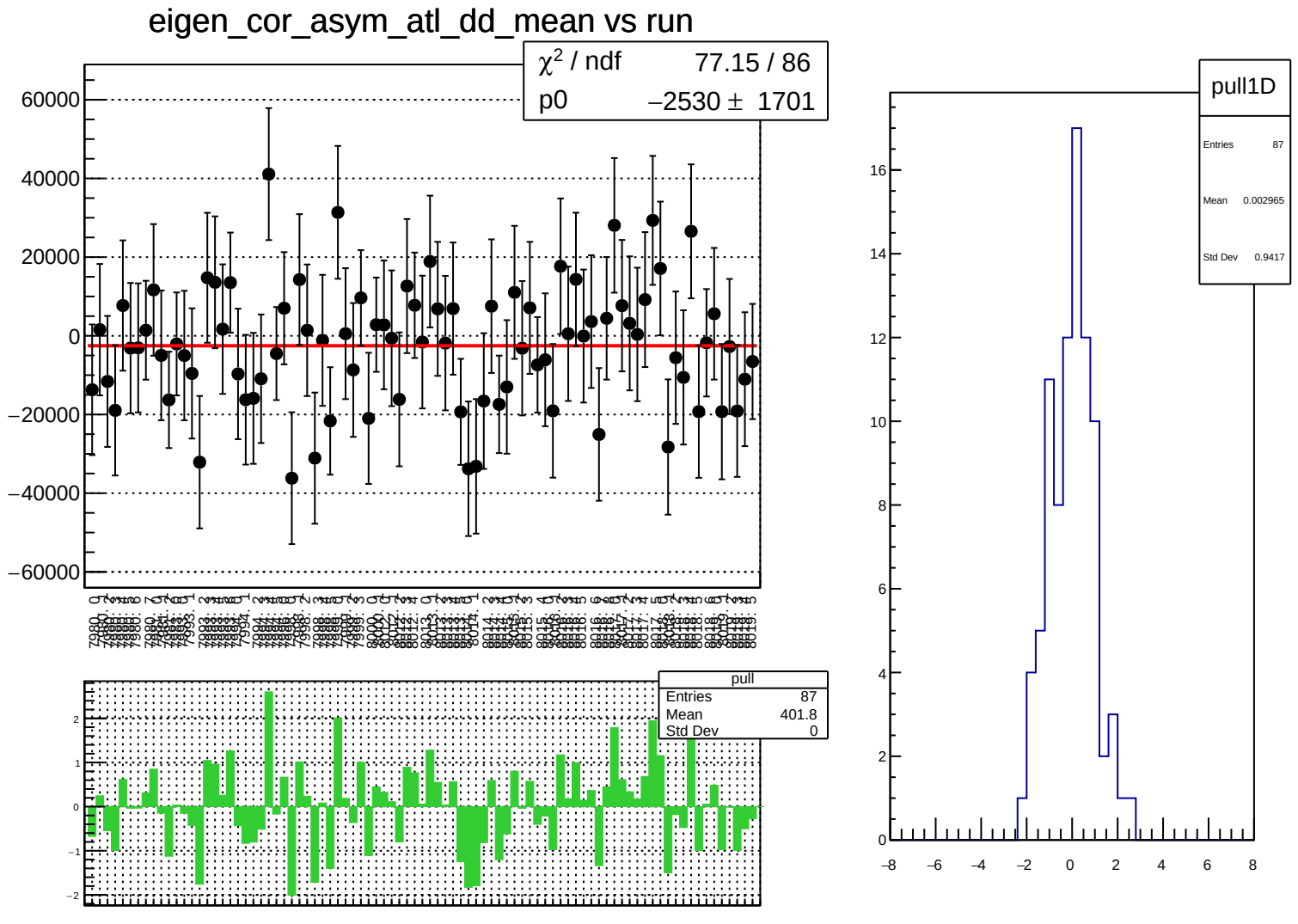

pull1D
Entries 87
Mean 0.002965
Std Dev 0.9417

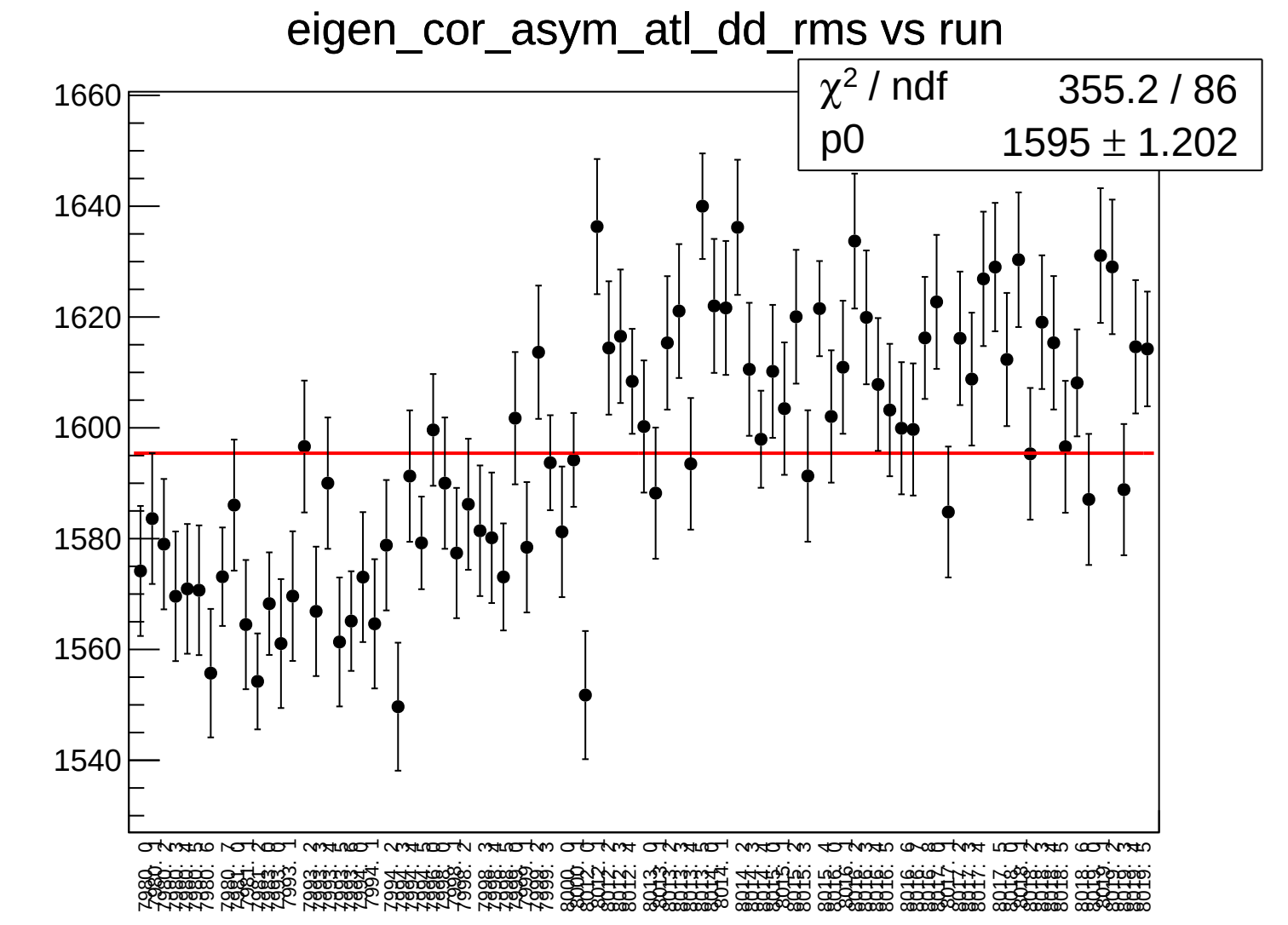

cor_asym_atl_dd_rms vs run
χ² / ndf 355.2 / 86
p0 1595 ± 1.202
1660
1640
1620
1600
1580
1560
1540

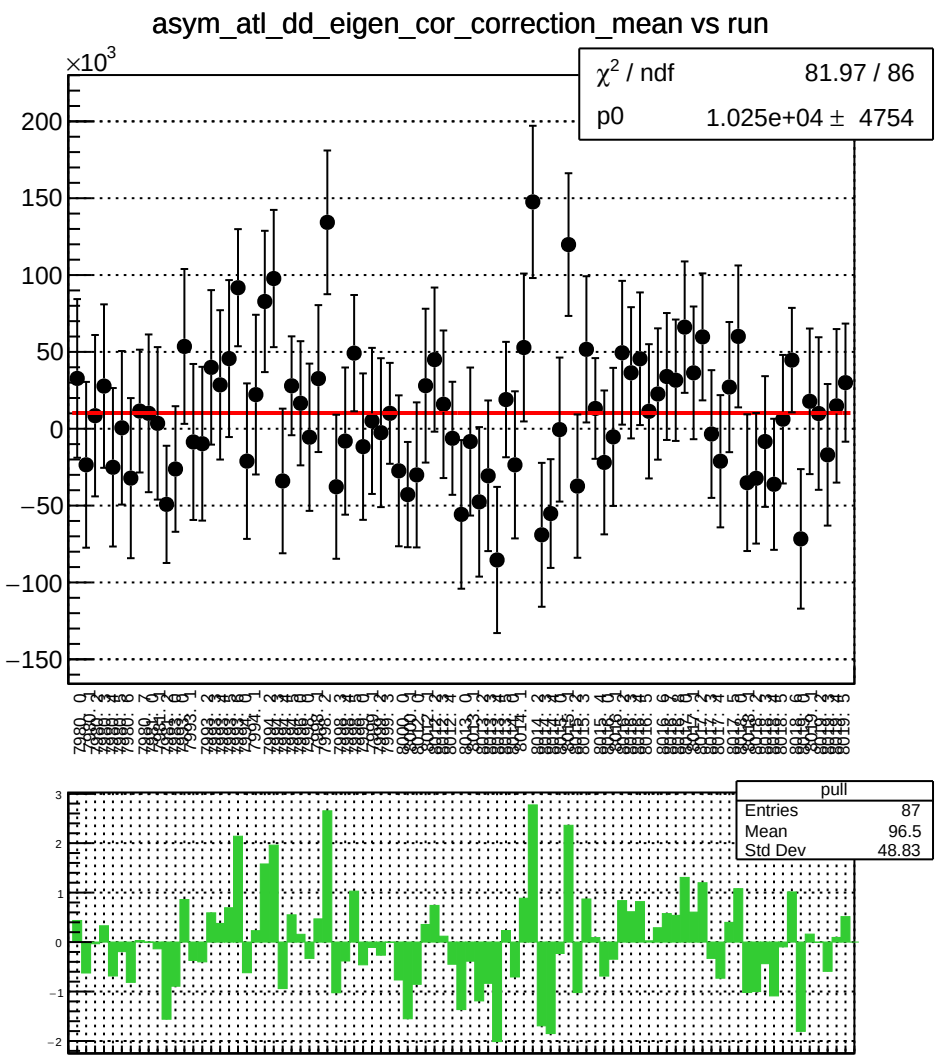

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 81.97 / 86
p0 1.025e+04 ± 4754
×10³
pull
Entries 87
Mean 96.5
Std Dev 48.83

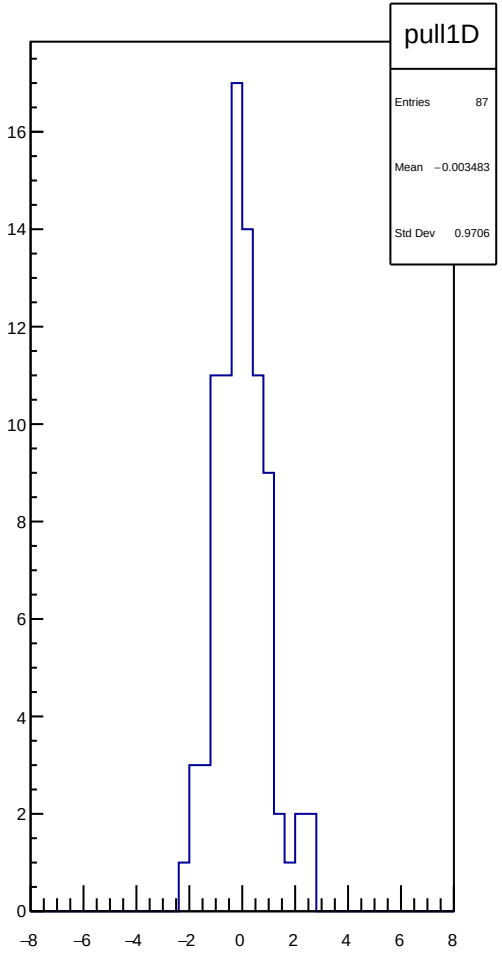

pull1D
Entries 87
Mean −0.003483
Std Dev 0.9706

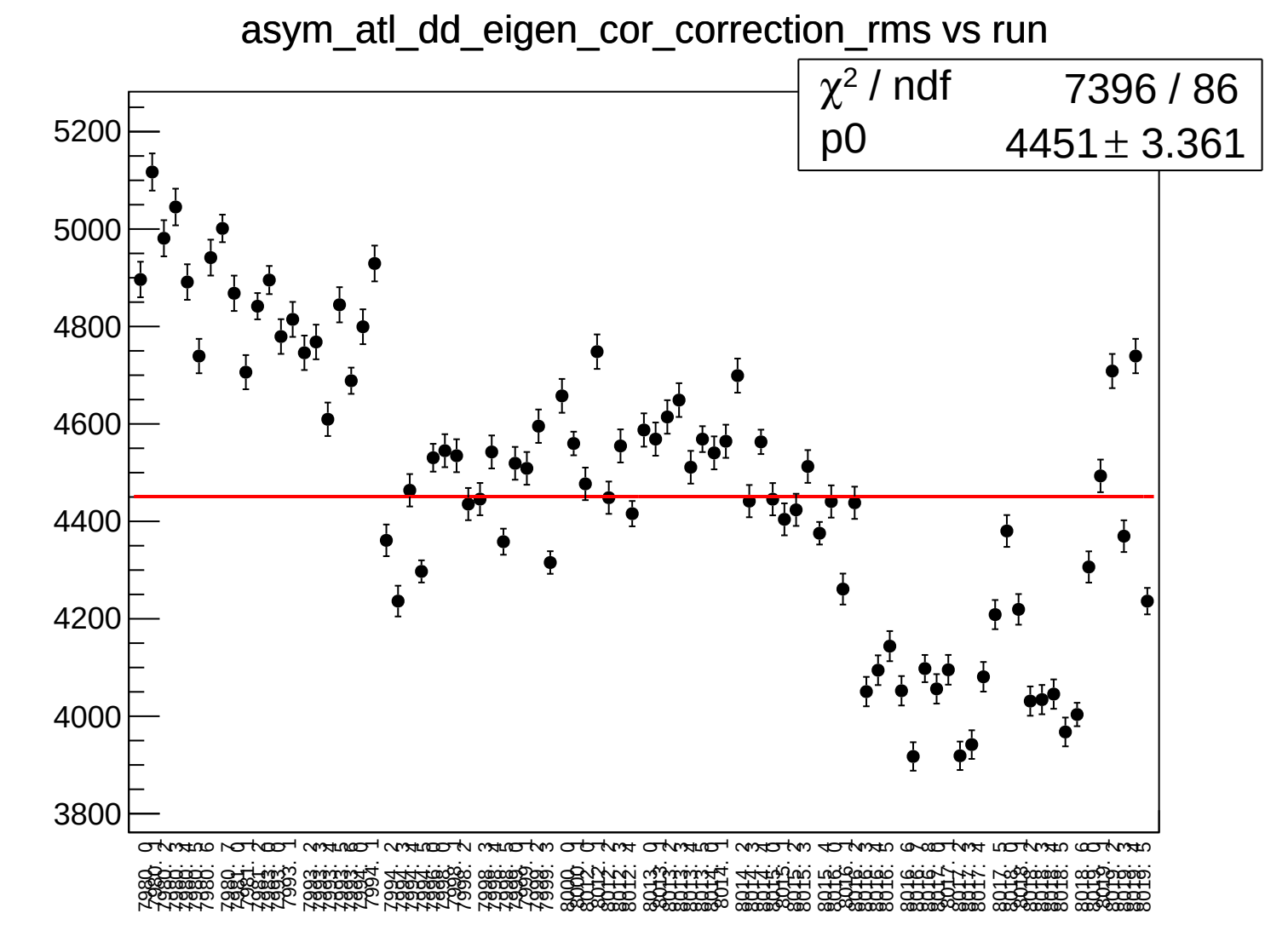

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 7396 / 86
p0 4451 ± 3.361
5200
5000
4800
4600
4400
4200
4000
3800

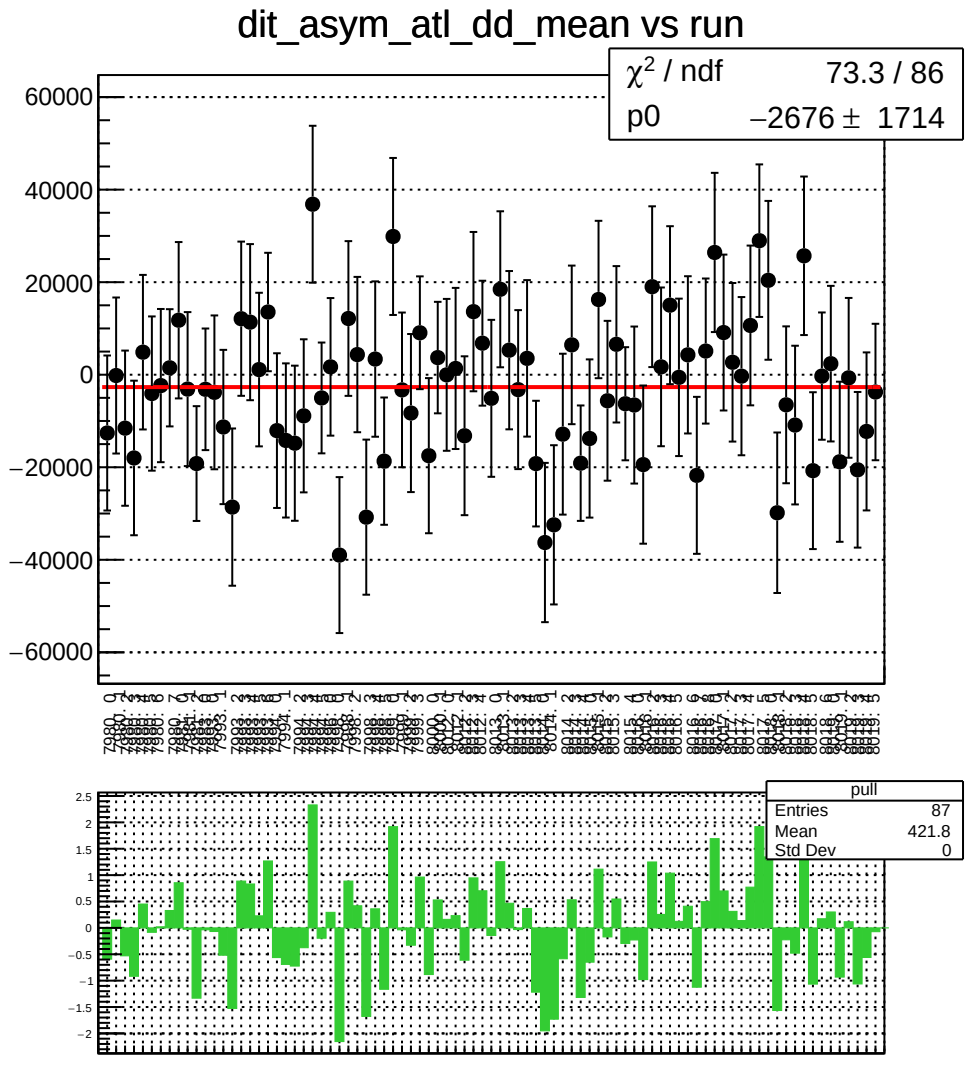

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 77.15 / 86
p0 −2530 ± 1701
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 401.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.002965
Std Dev 0.9417
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

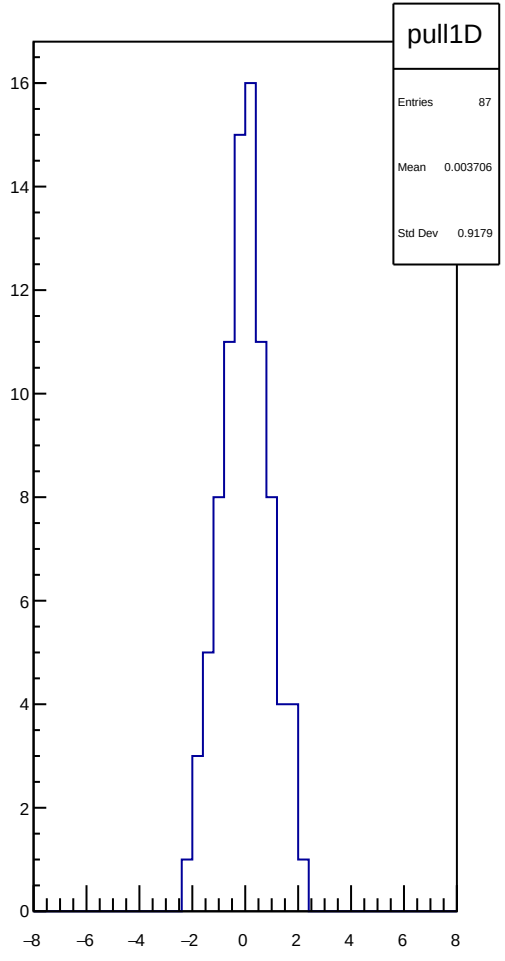

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 355.2 / 86
p0 1595 ± 1.202
1660
1640
1620
1600
1580
1560
1540

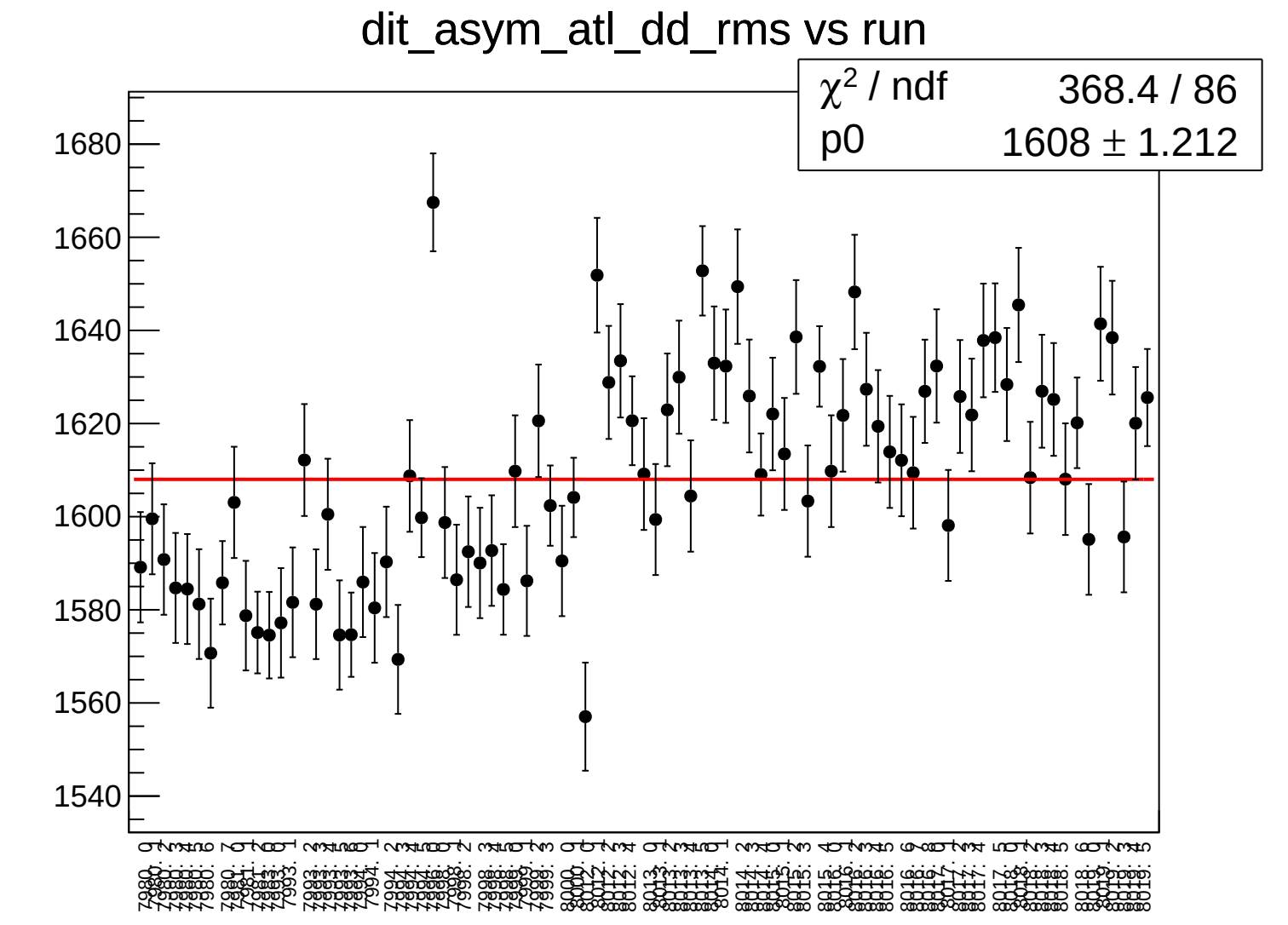

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.97 / 86
p0 1.025e+04 ± 4754
×10³
pull
Entries 87
Mean 96.5
Std Dev 48.83

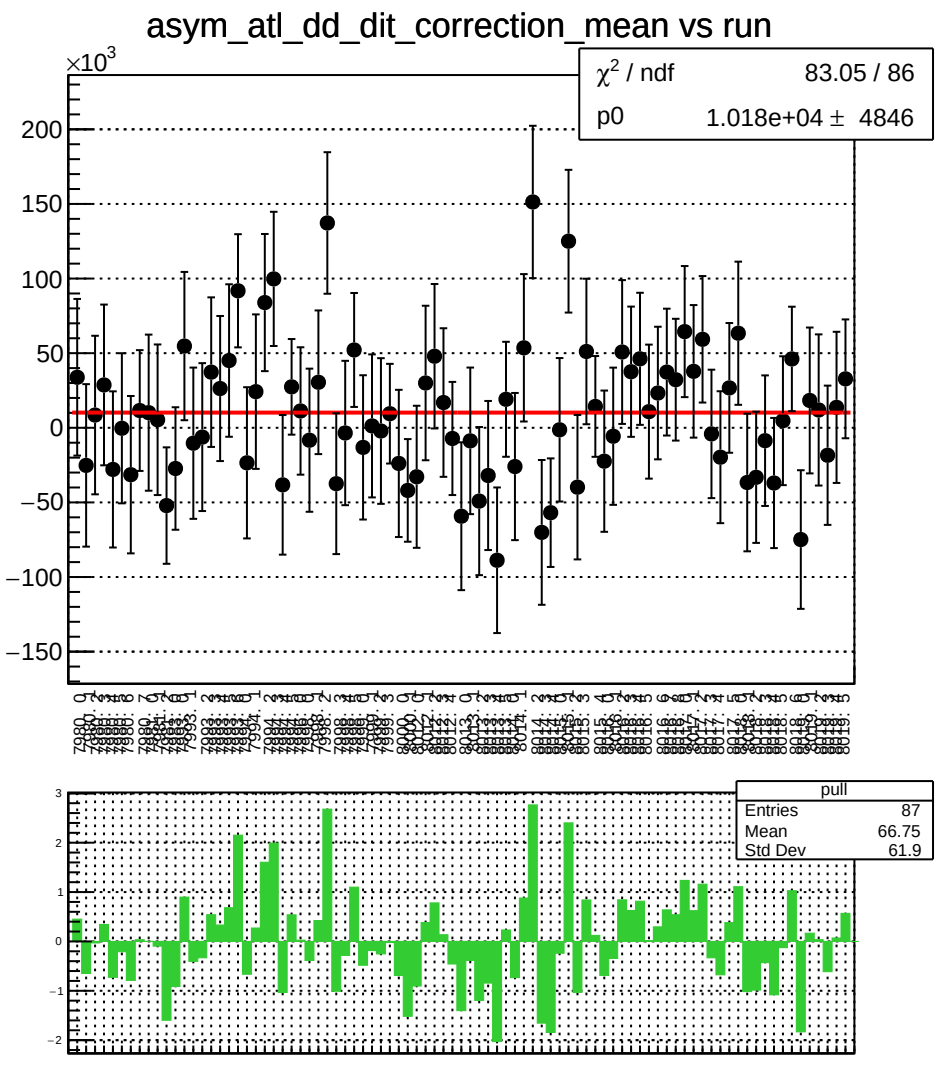

pull1D
Entries 87
Mean −0.003483
Std Dev 0.9706

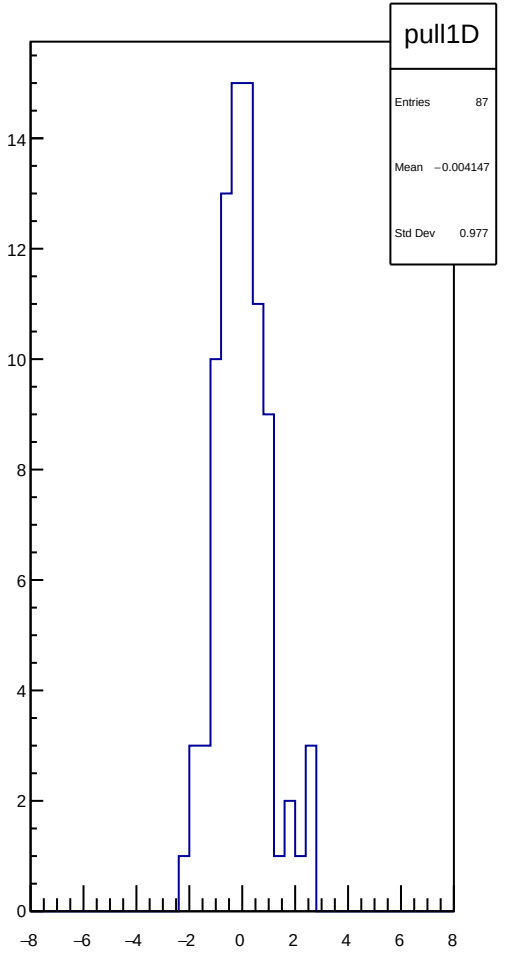

asym_atl_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 7396 / 86
p0 4451 ± 3.361
5200
5000
4800
4600
4400
4200
4000
3800

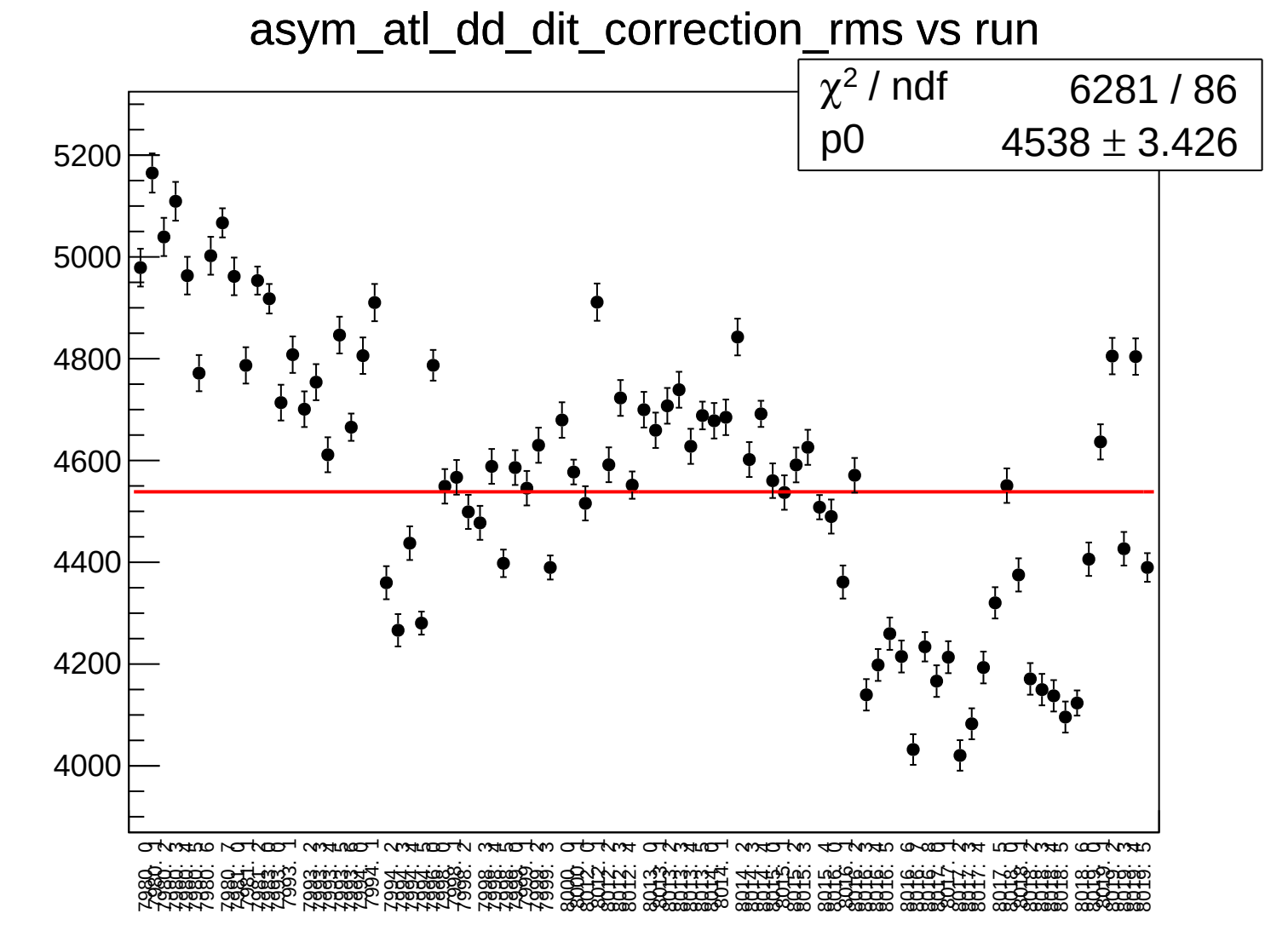

dit_asym_atl_dd_mean vs run
χ² / ndf 73.3 / 86
p0 −2676 ± 1714
pull
Entries 87
Mean 421.8
Std Dev 0

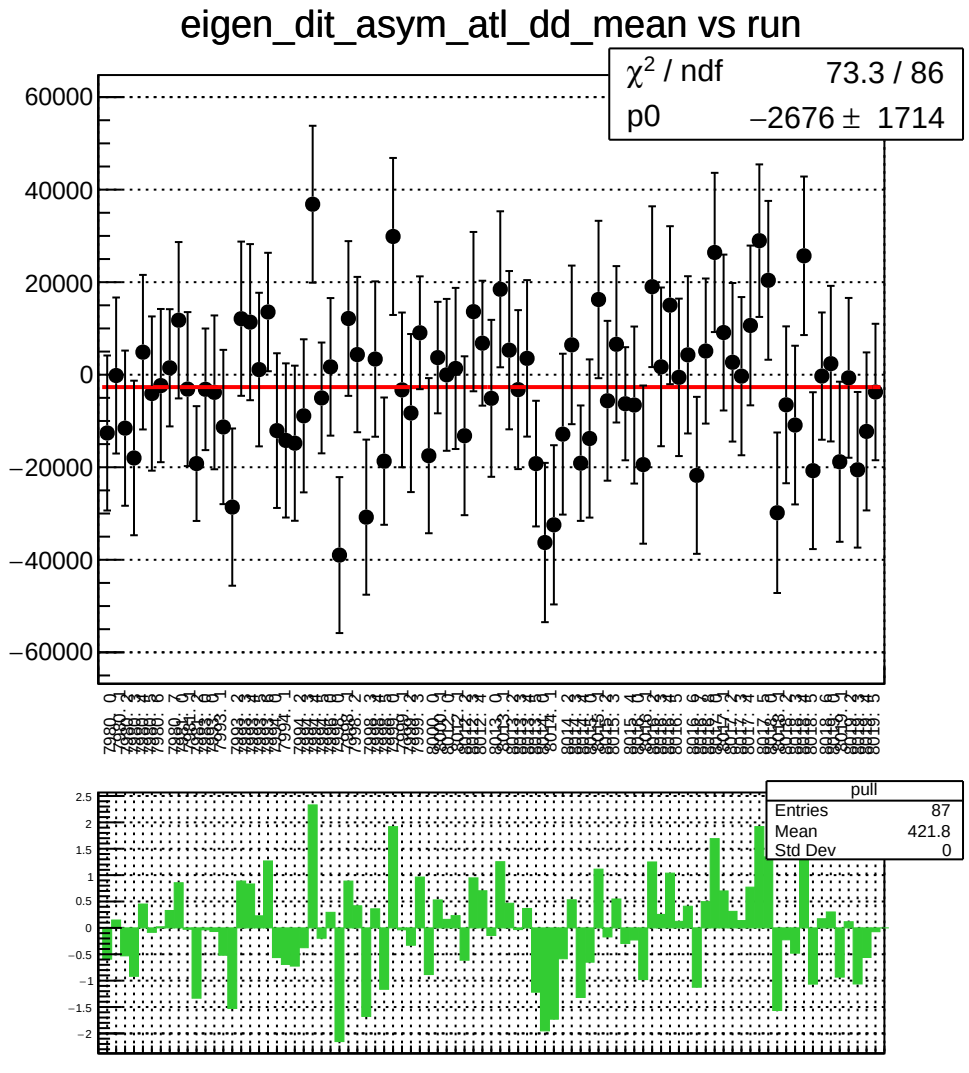

pull1D
Entries 87
Mean 0.003706
Std Dev 0.9179

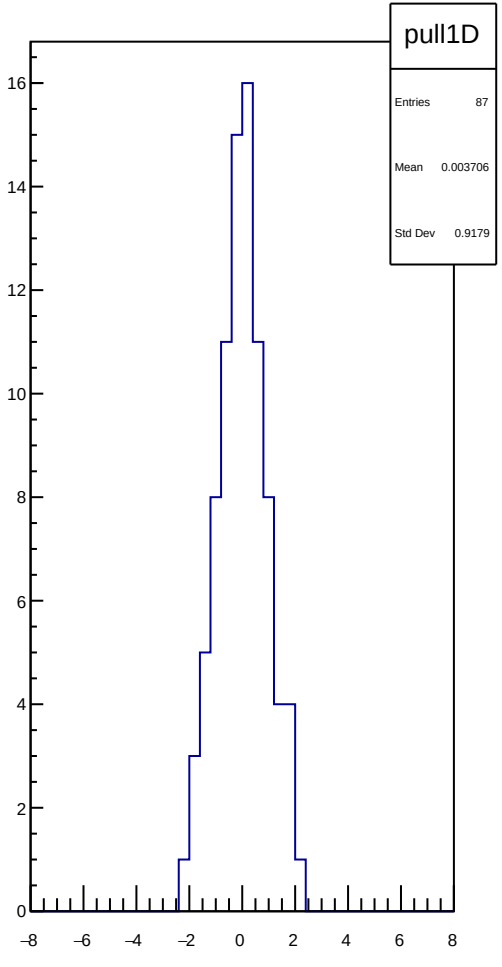

dit_asym_atl_dd_rms vs run
χ^2 / ndf 368.4 / 86
p0 1608 ± 1.212
1680
1660
1640
1620
1600
1580
1560
1540

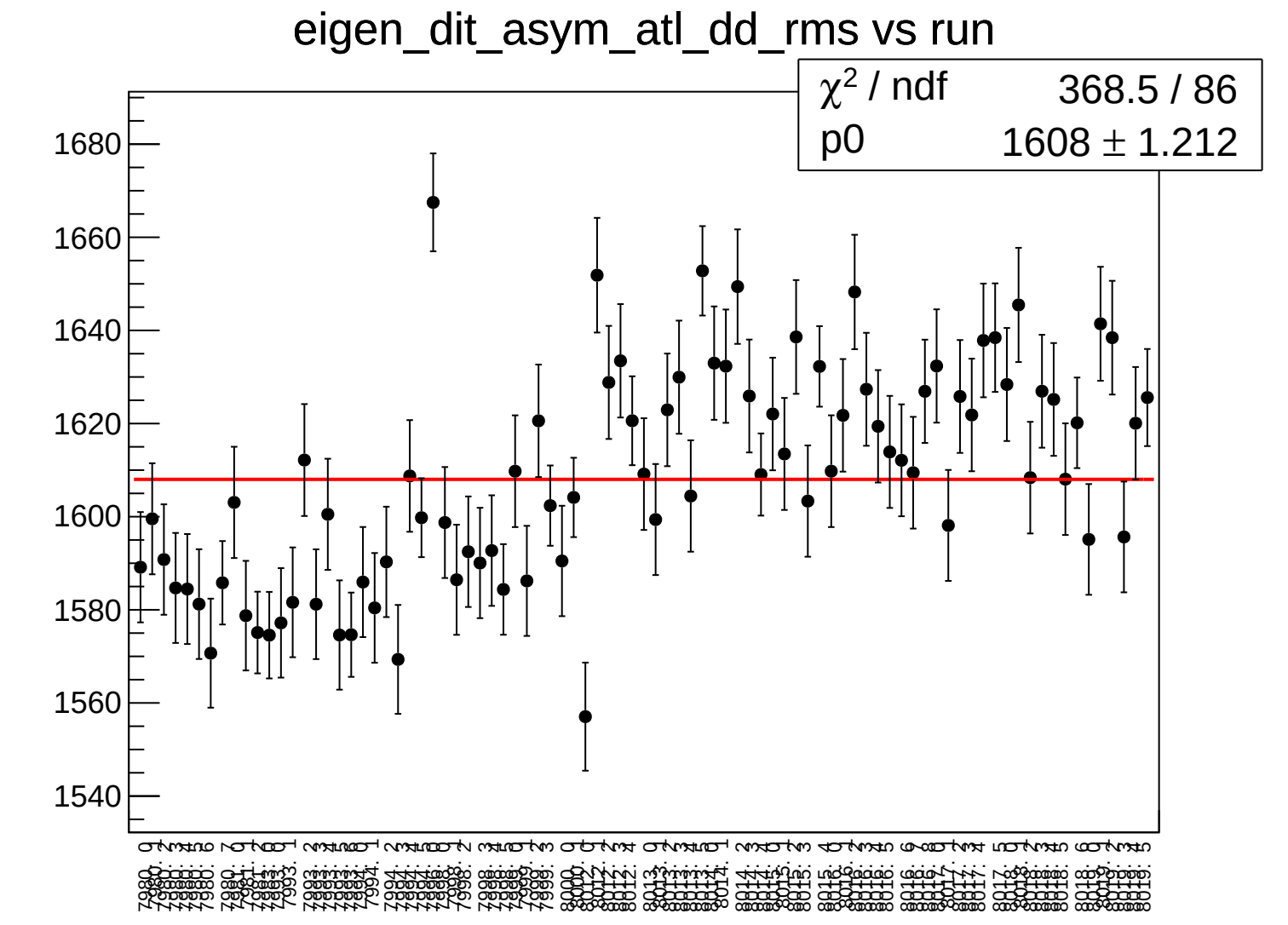

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 83.05 / 86
p0 1.018e+04 ± 4846
pull
Entries 87
Mean 66.75
Std Dev 61.9

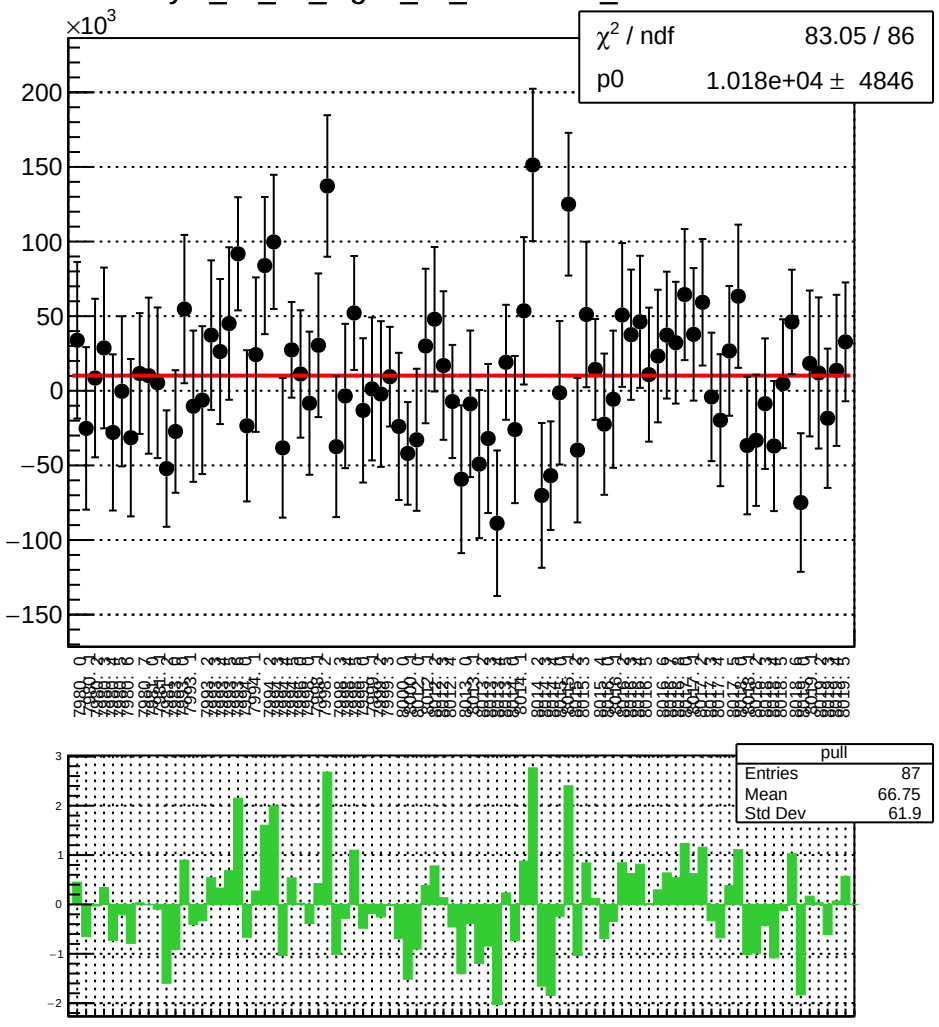

pull1D
Entries 87
Mean −0.004147
Std Dev 0.977

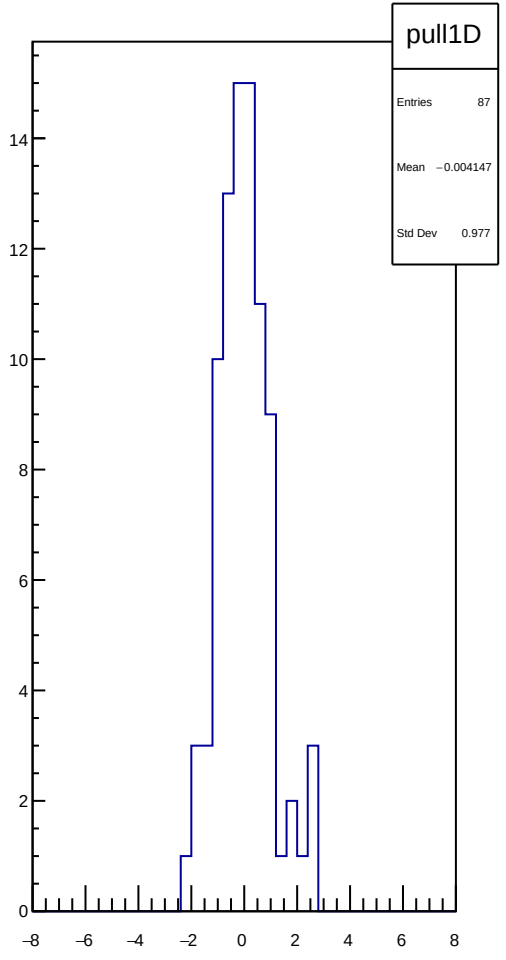

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 6281 / 86
p0 4538 ± 3.426
5200
5000
4800
4600
4400
4200
4000

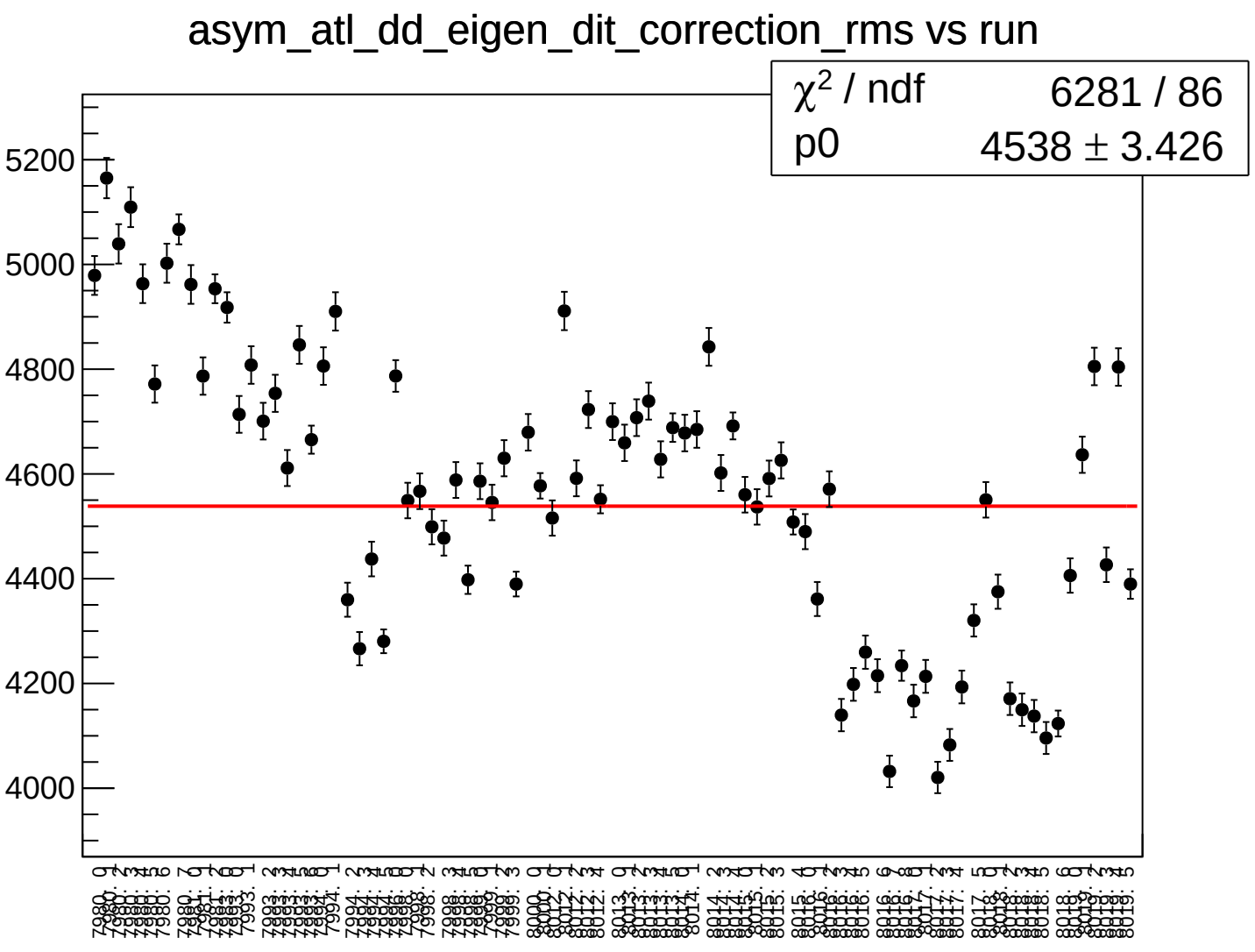

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 73.3 / 86
p0 −2676 ± 1714
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 421.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

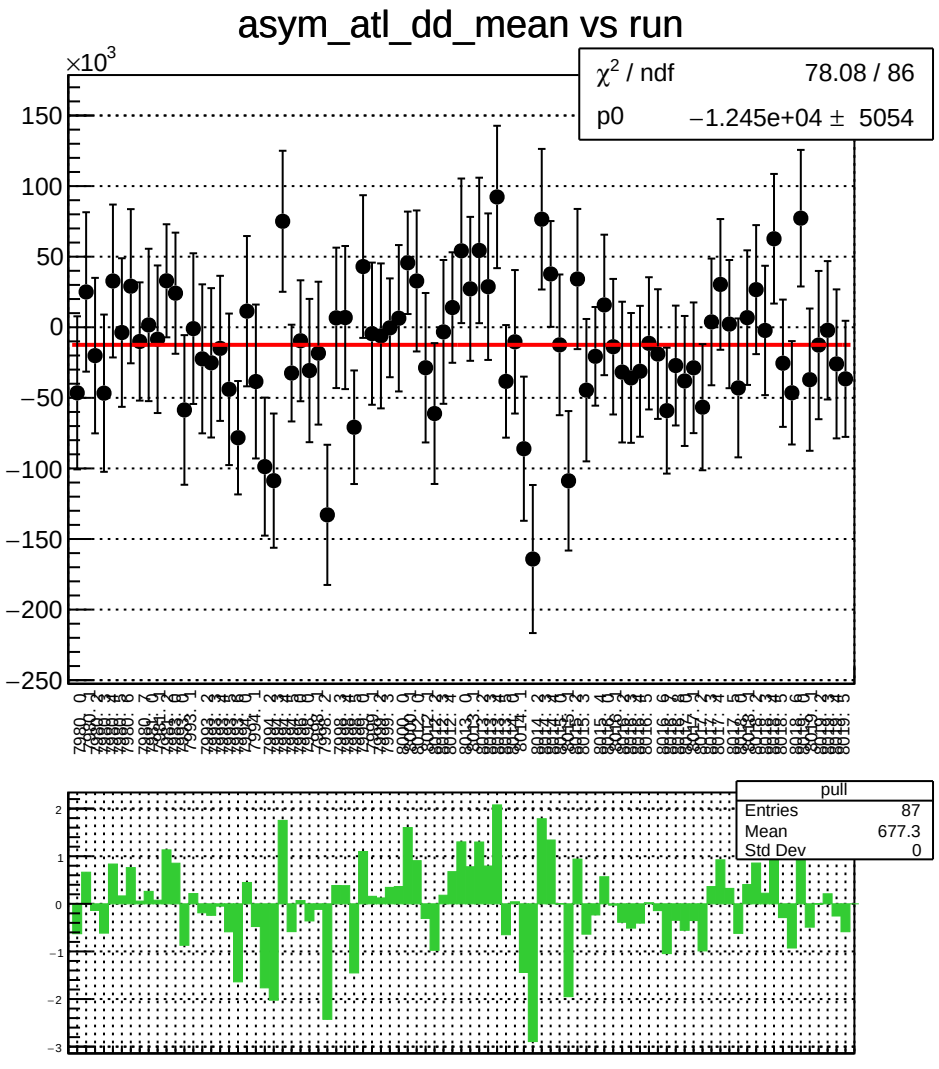

pull1D
Entries 87
Mean 0.003706
Std Dev 0.9179
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

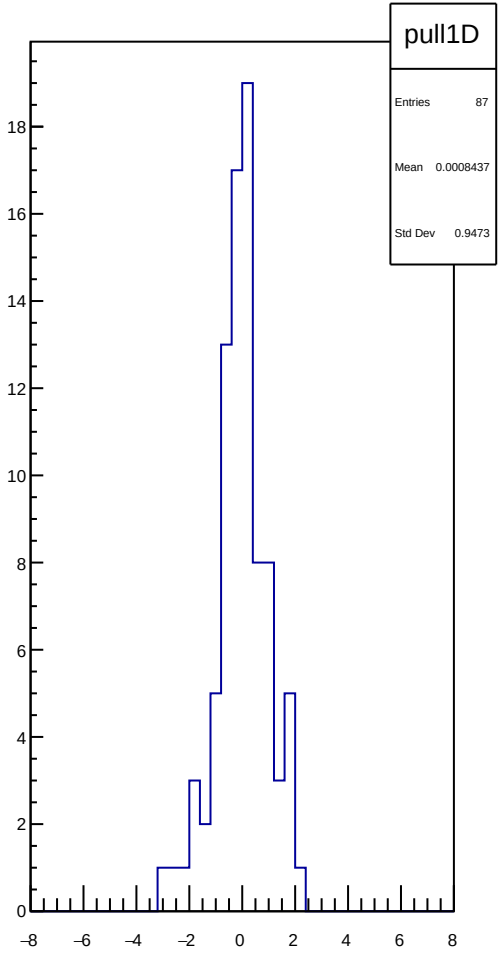

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 368.5 / 86
p0 1608 ± 1.212
1680
1660
1640
1620
1600
1580
1560
1540

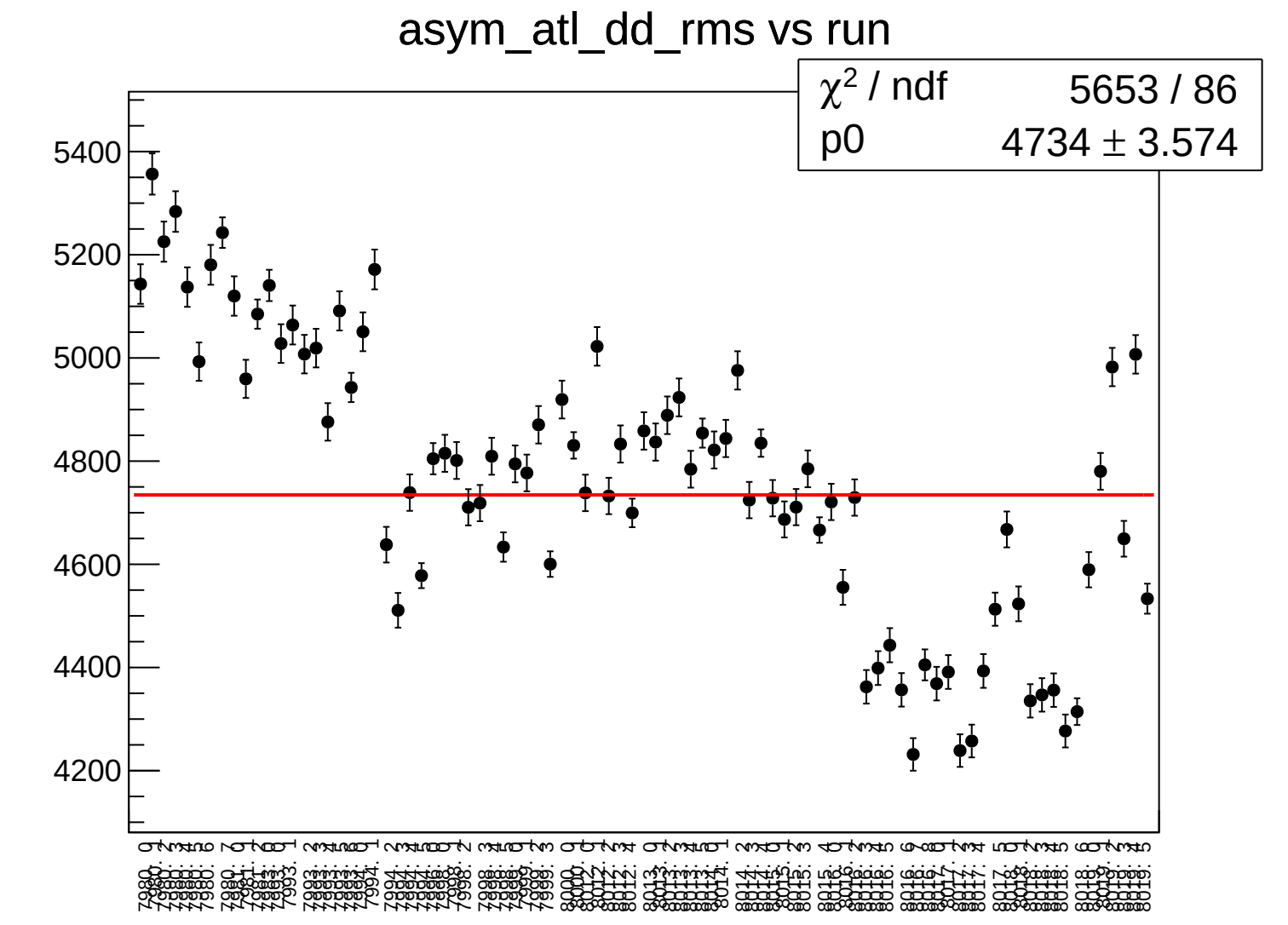

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.05 / 86
p0 1.018e+04 ± 4846
pull
Entries 87
Mean 66.75
Std Dev 61.9

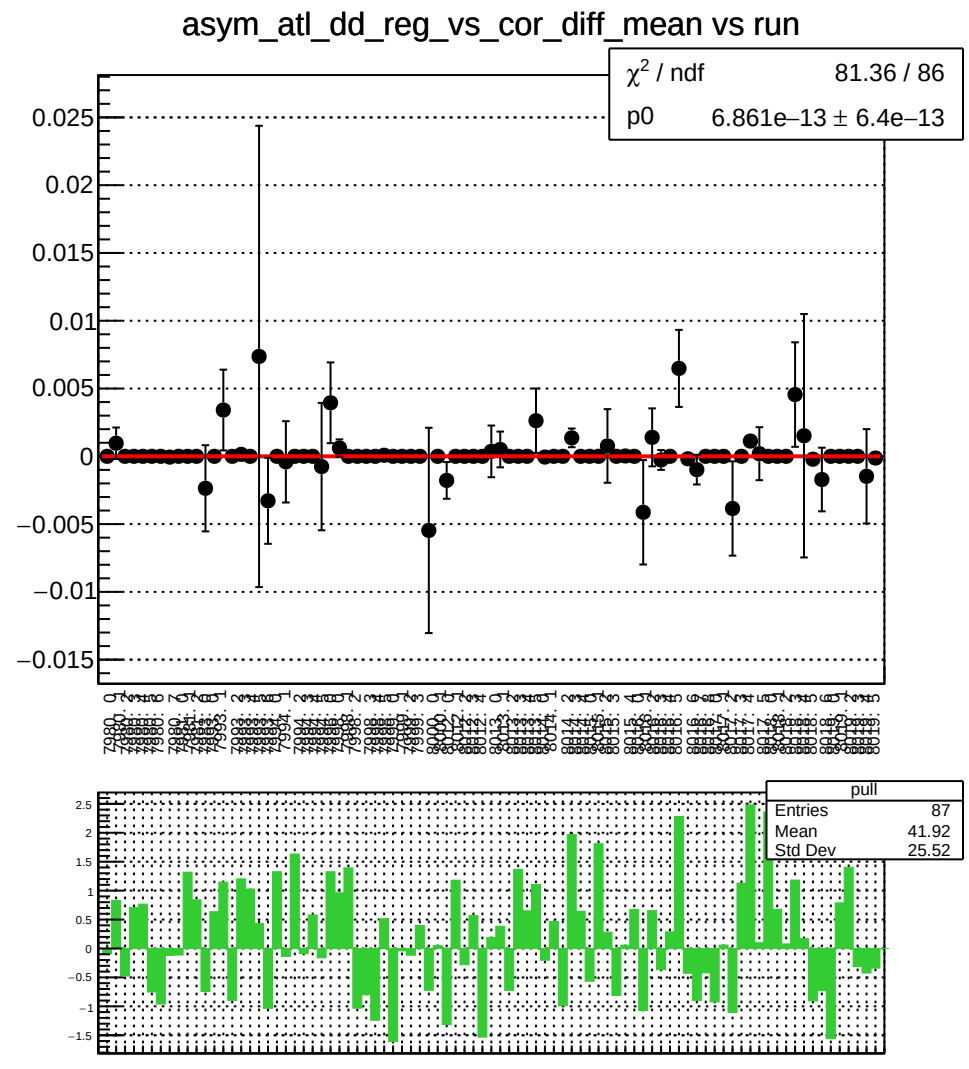

pull1D
Entries 87
Mean −0.004147
Std Dev 0.977

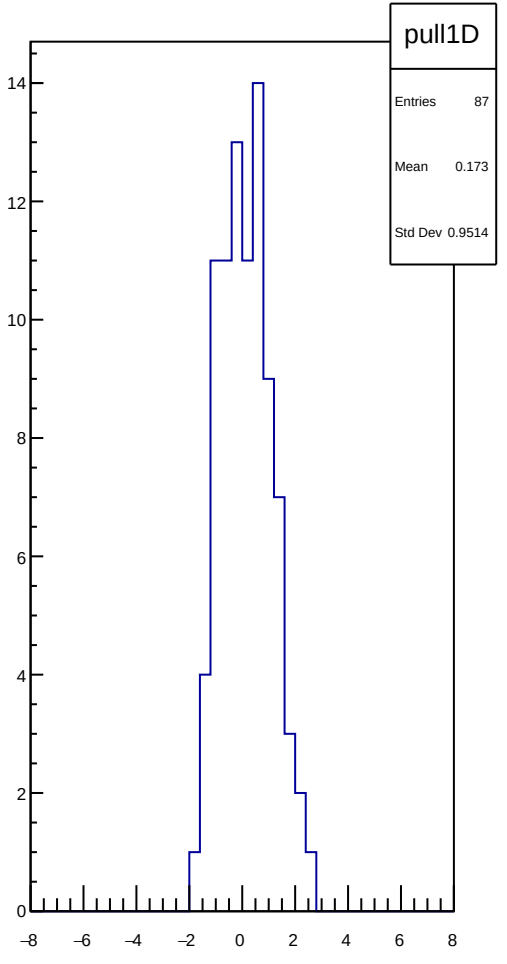

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 6281 / 86
p0 4538 ± 3.426
5200
5000
4800
4600
4400
4200
4000

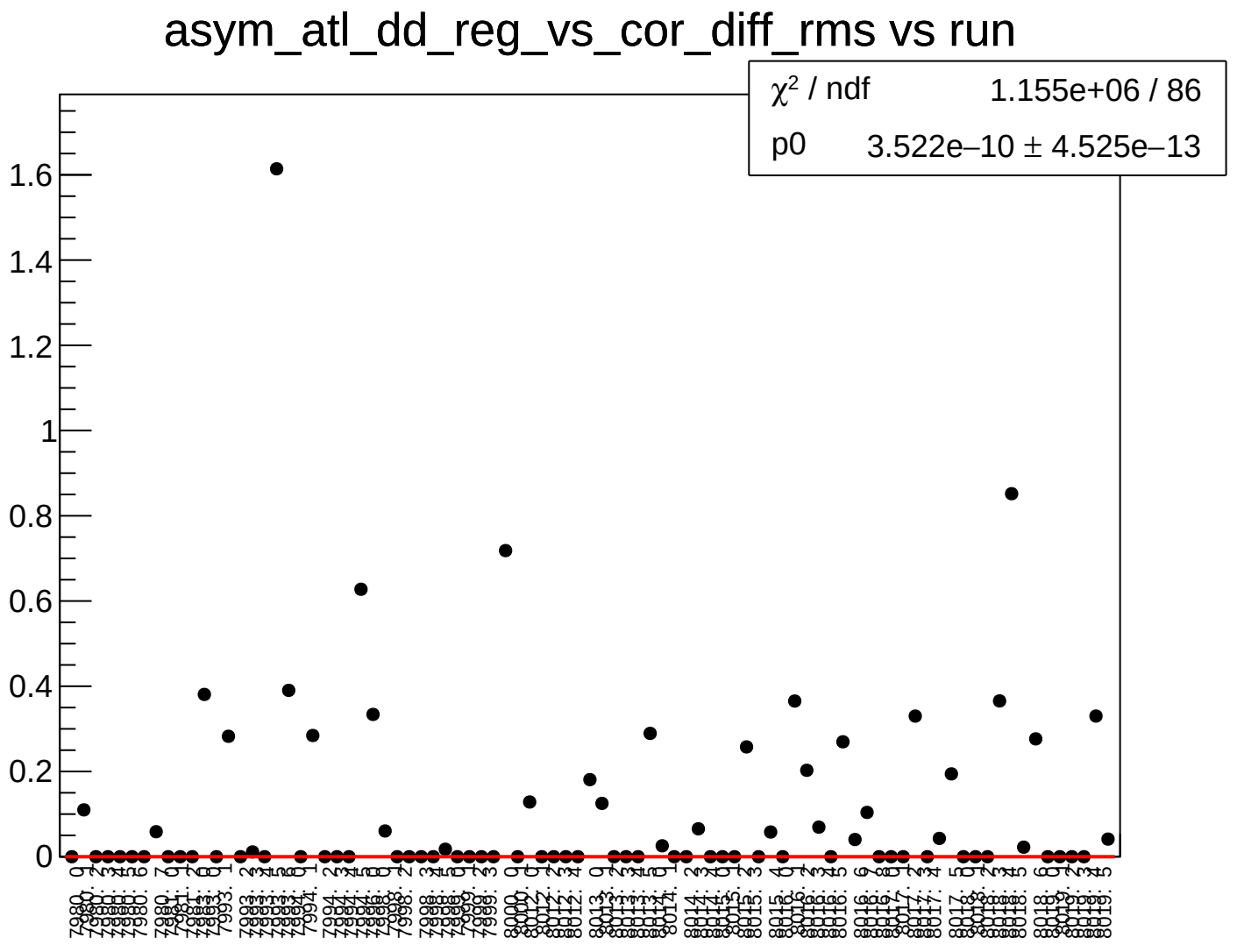

asym_atl_dd_mean vs run
×10^3
χ² / ndf 78.08 / 86
p0 −1.245e+04 ± 5054
pull
Entries 87
Mean 677.3
Std Dev 0

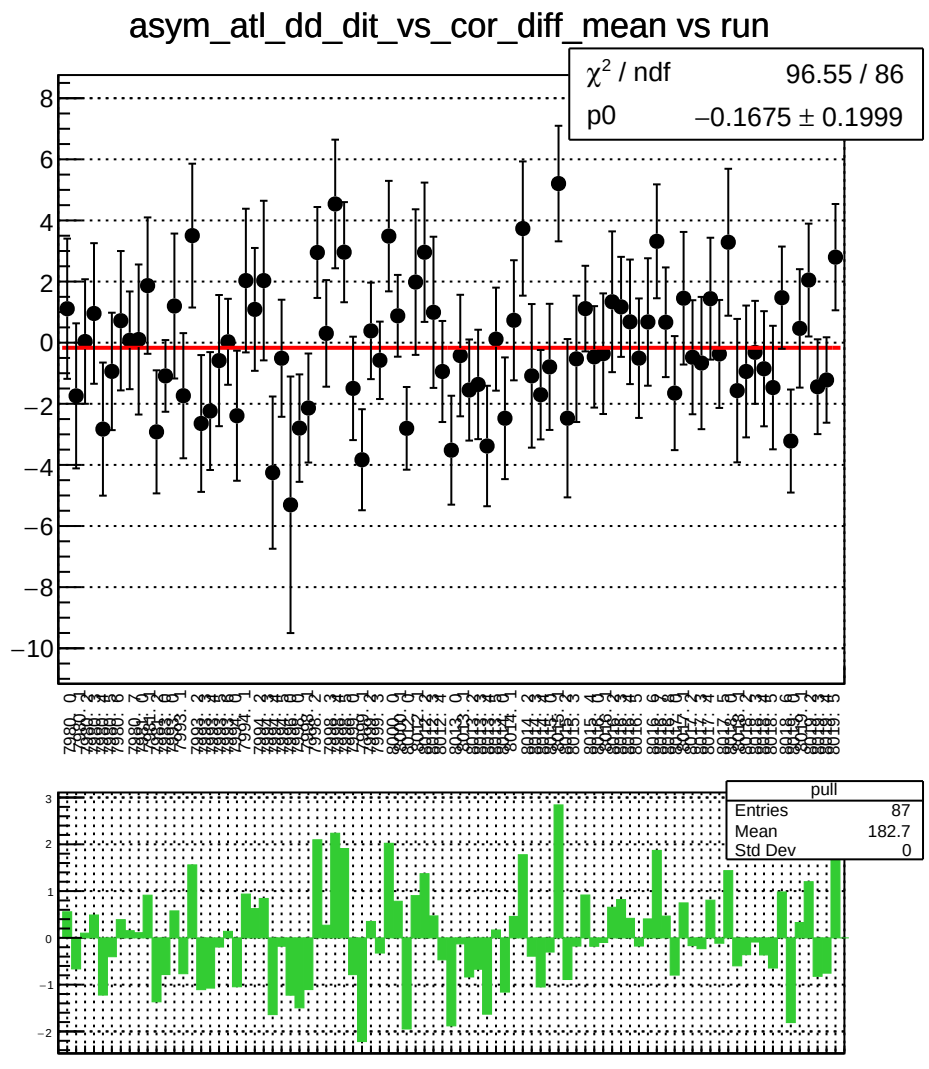

pull1D
Entries 87
Mean 0.0008437
Std Dev 0.9473

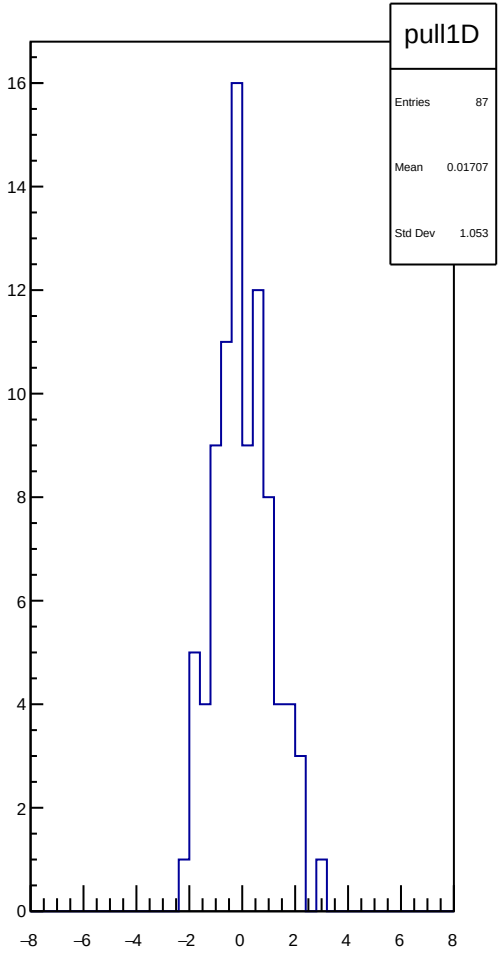

asym_atl_dd_rms vs run
χ² / ndf 5653 / 86
p0 4734 ± 3.574
5400
5200
5000
4800
4600
4400
4200

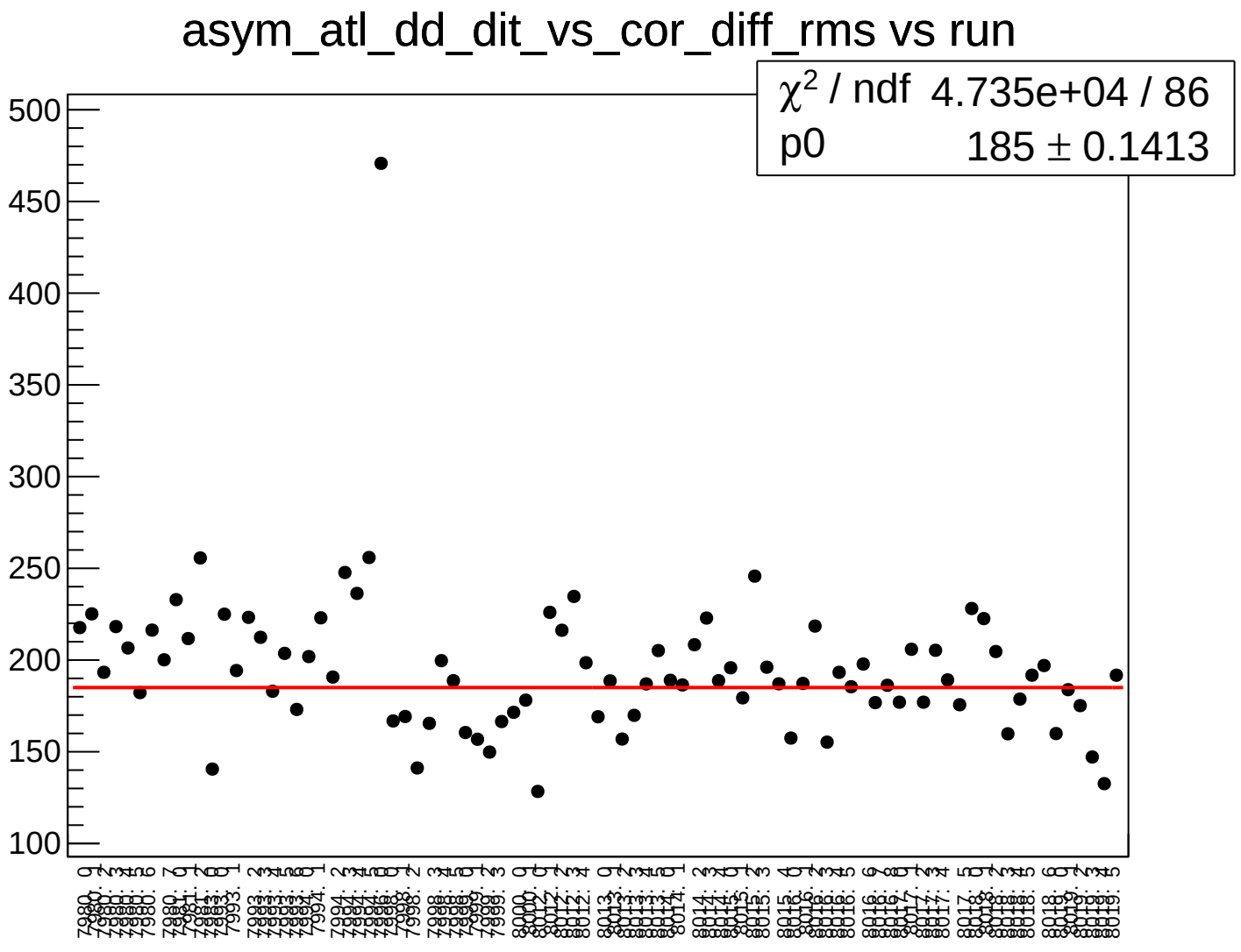

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.36 / 86
p0 6.861e−13 ± 6.4e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 87
Mean 41.92
Std Dev 25.52
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

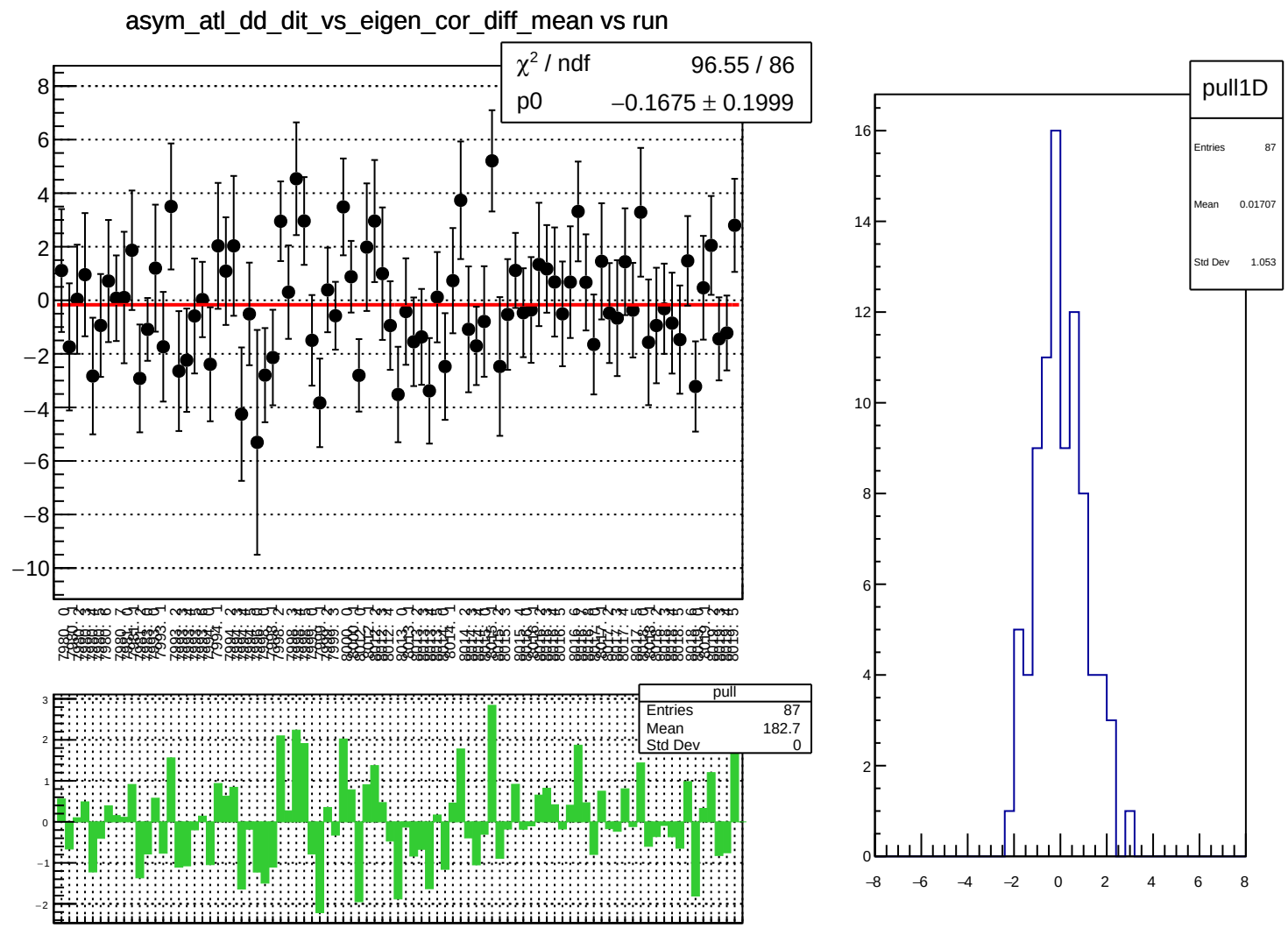

pull1D
Entries 87
Mean 0.173
Std Dev 0.9514
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

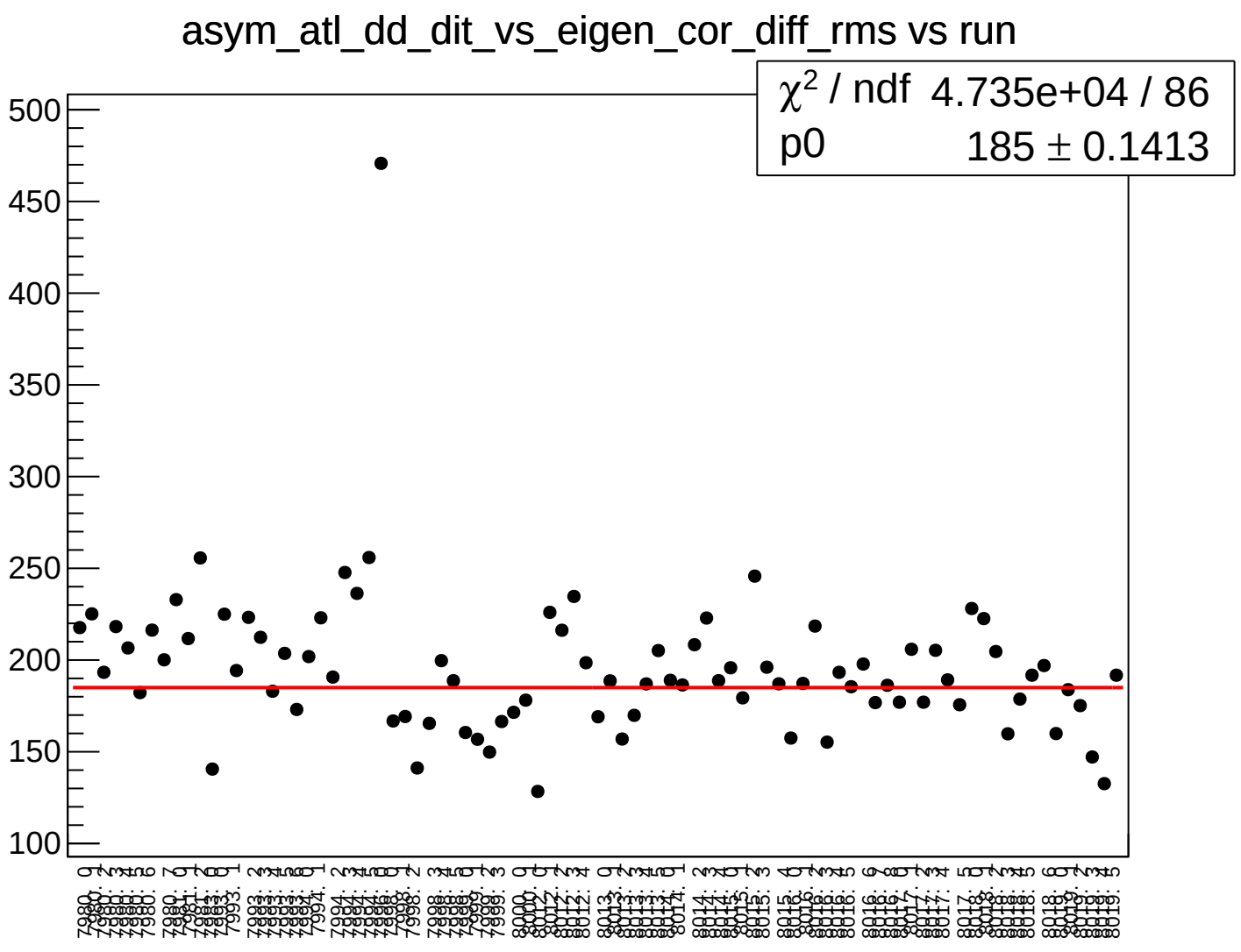

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.155e+06 / 86
p0 3.522e−10 ± 4.525e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

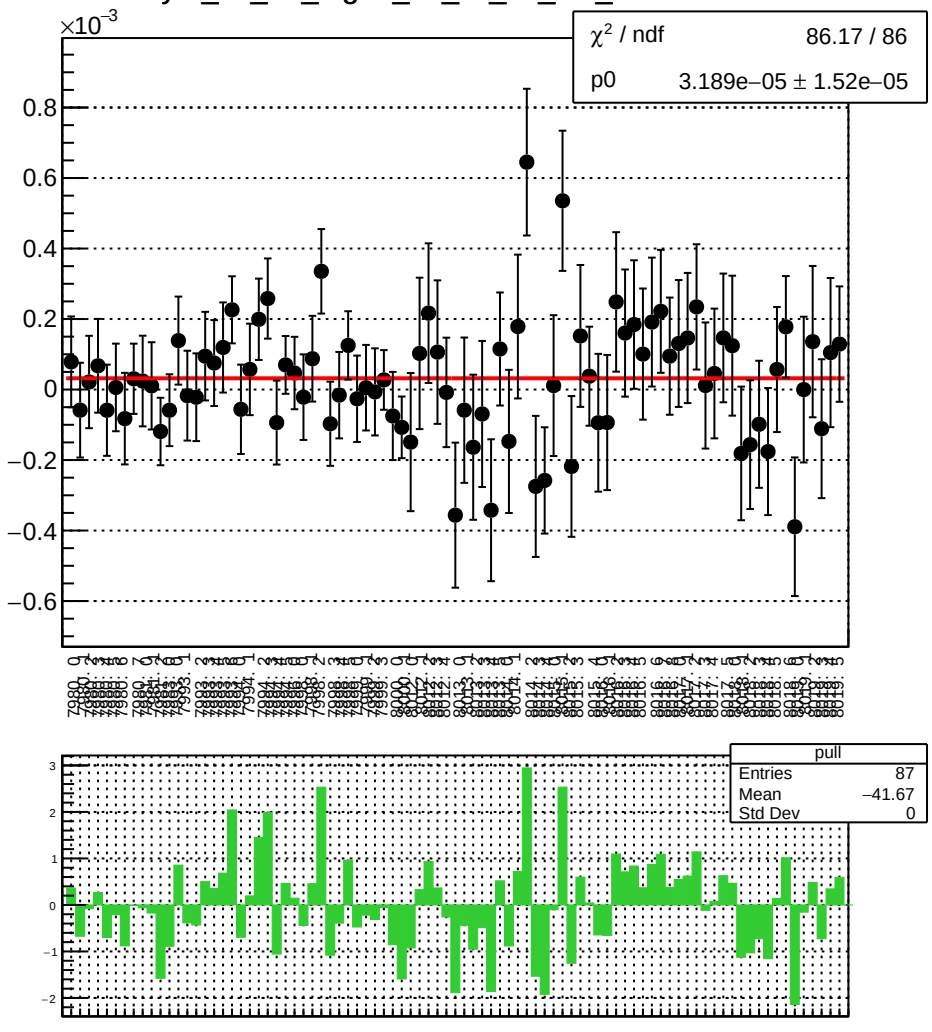

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.55 / 86
p0 −0.1675 ± 0.1999
pull
Entries 87
Mean 182.7
Std Dev 0

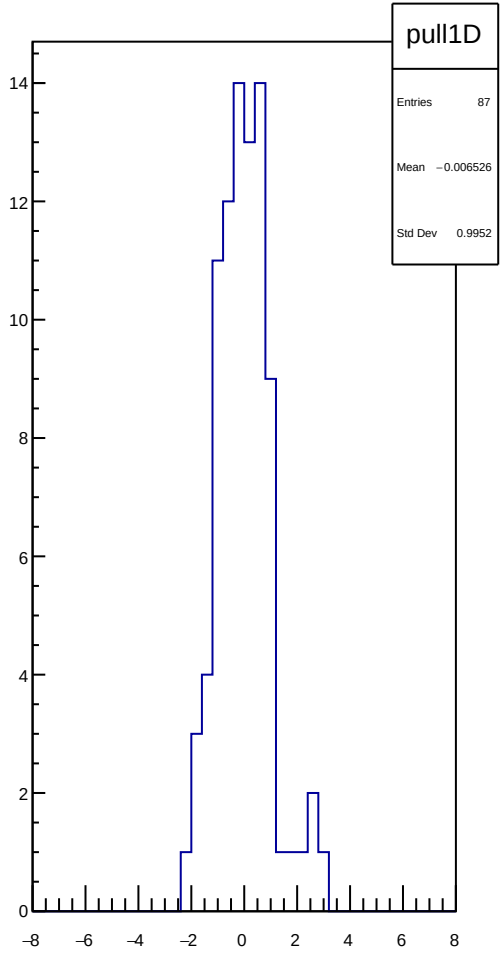

pull1D
Entries 87
Mean 0.01707
Std Dev 1.053

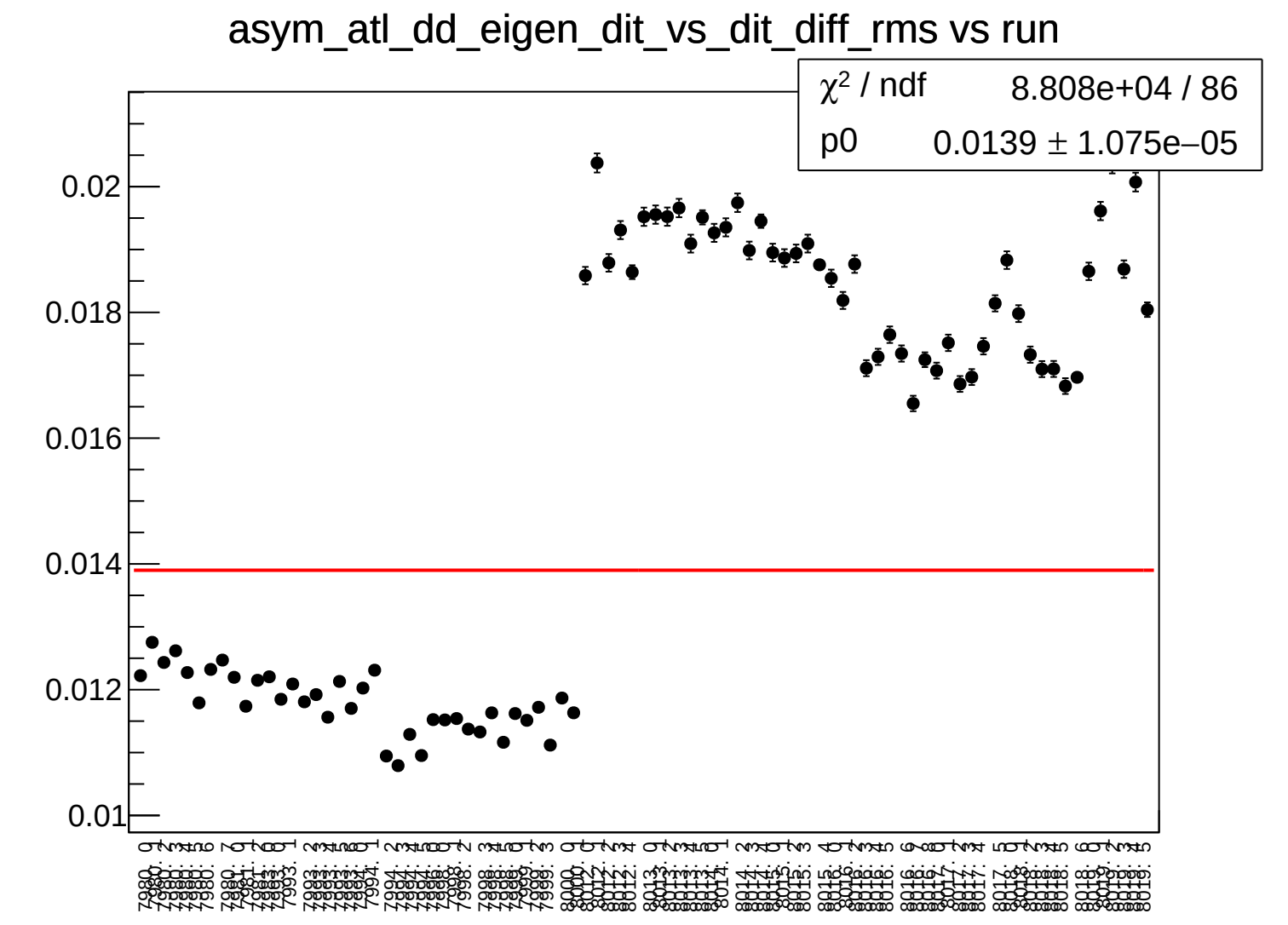

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.735e+04 / 86
p0 185 ± 0.1413
500
450
400
350
300
250
200
150
100

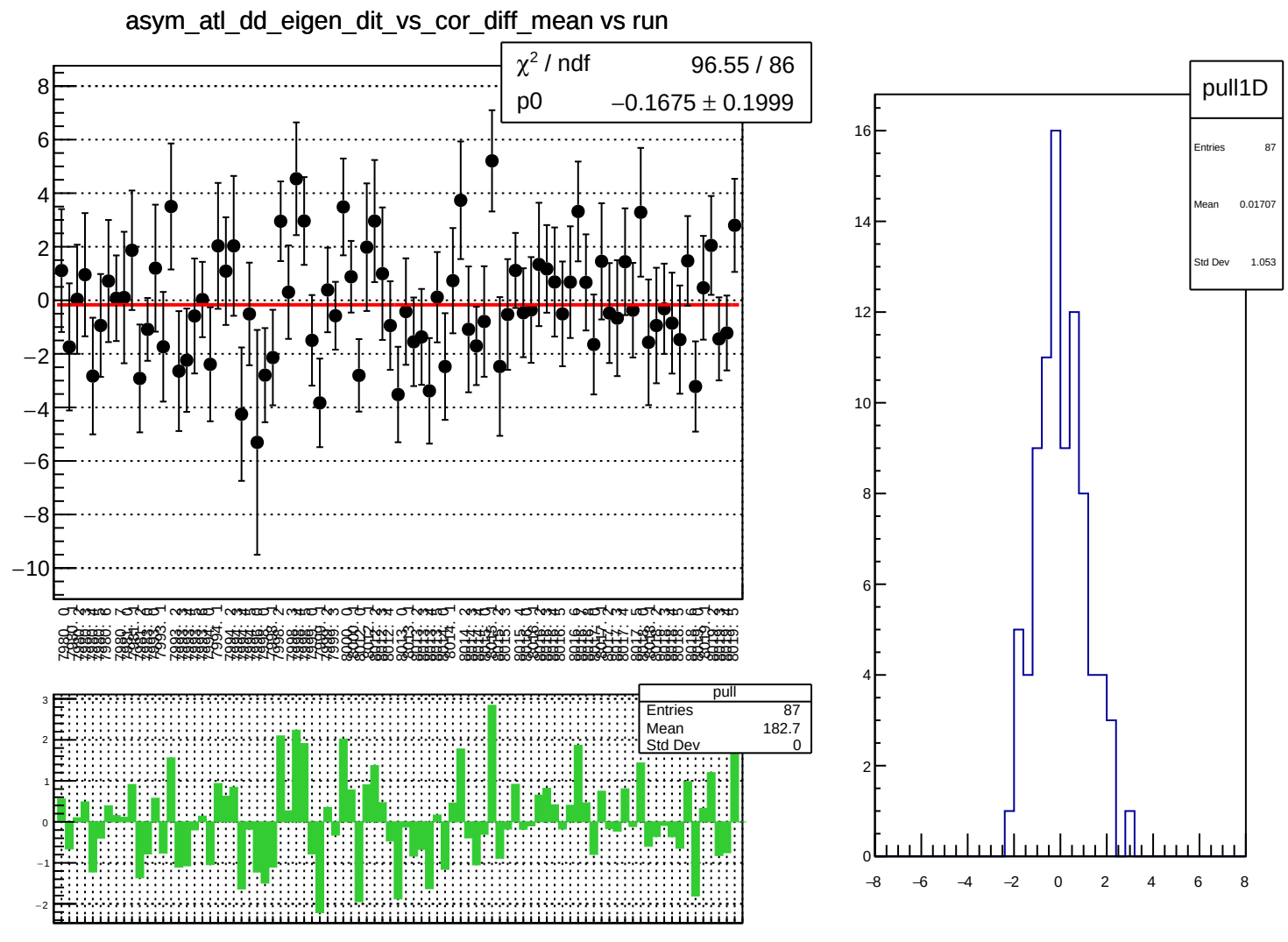

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.55 / 86
p0 −0.1675 ± 0.1999
pull
Entries 87
Mean 182.7
Std Dev 0
pull1D
Entries 87
Mean 0.01707
Std Dev 1.053

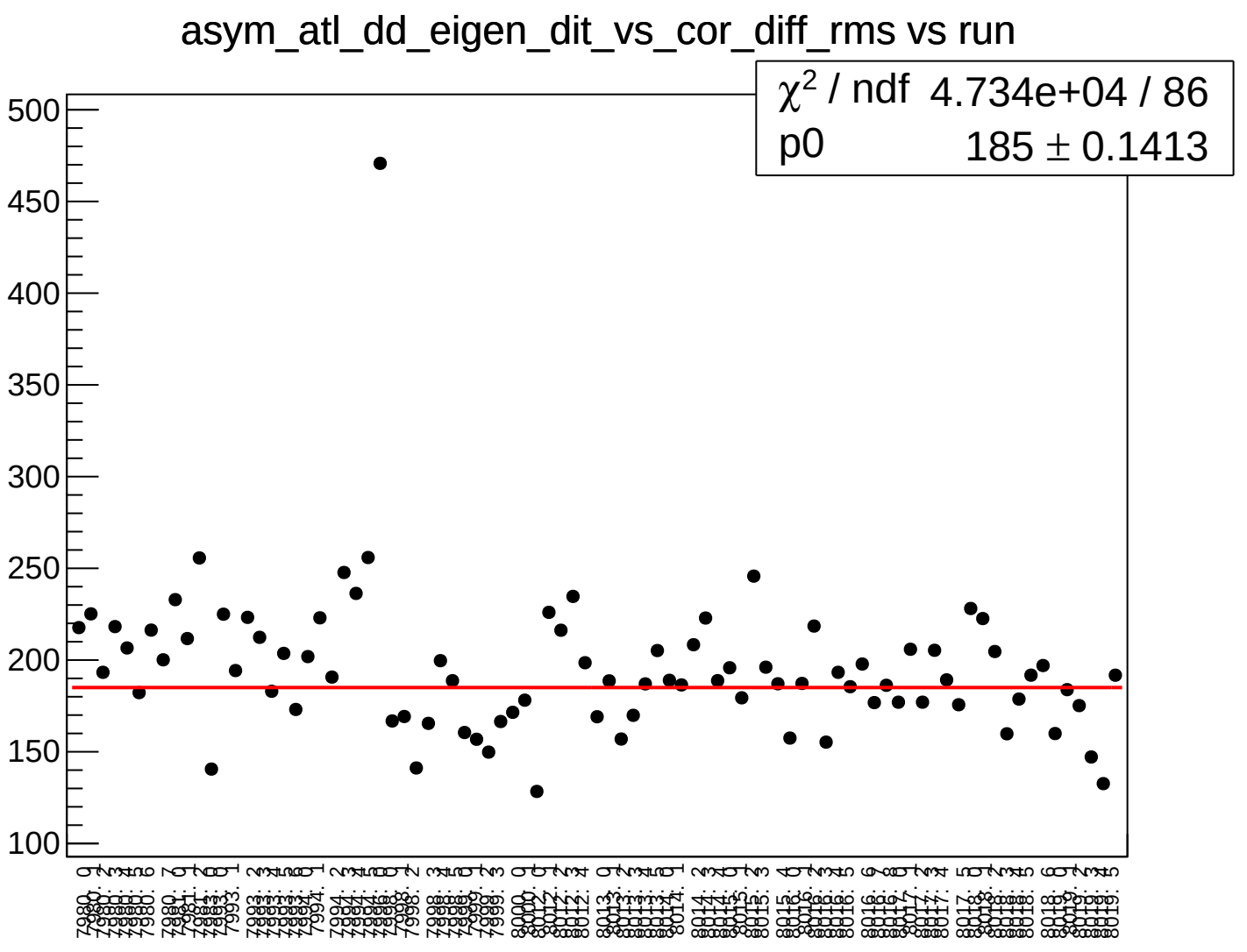

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.735e+04 / 86
p0 185 ± 0.1413
500
450
400
350
300
250
200
150
100

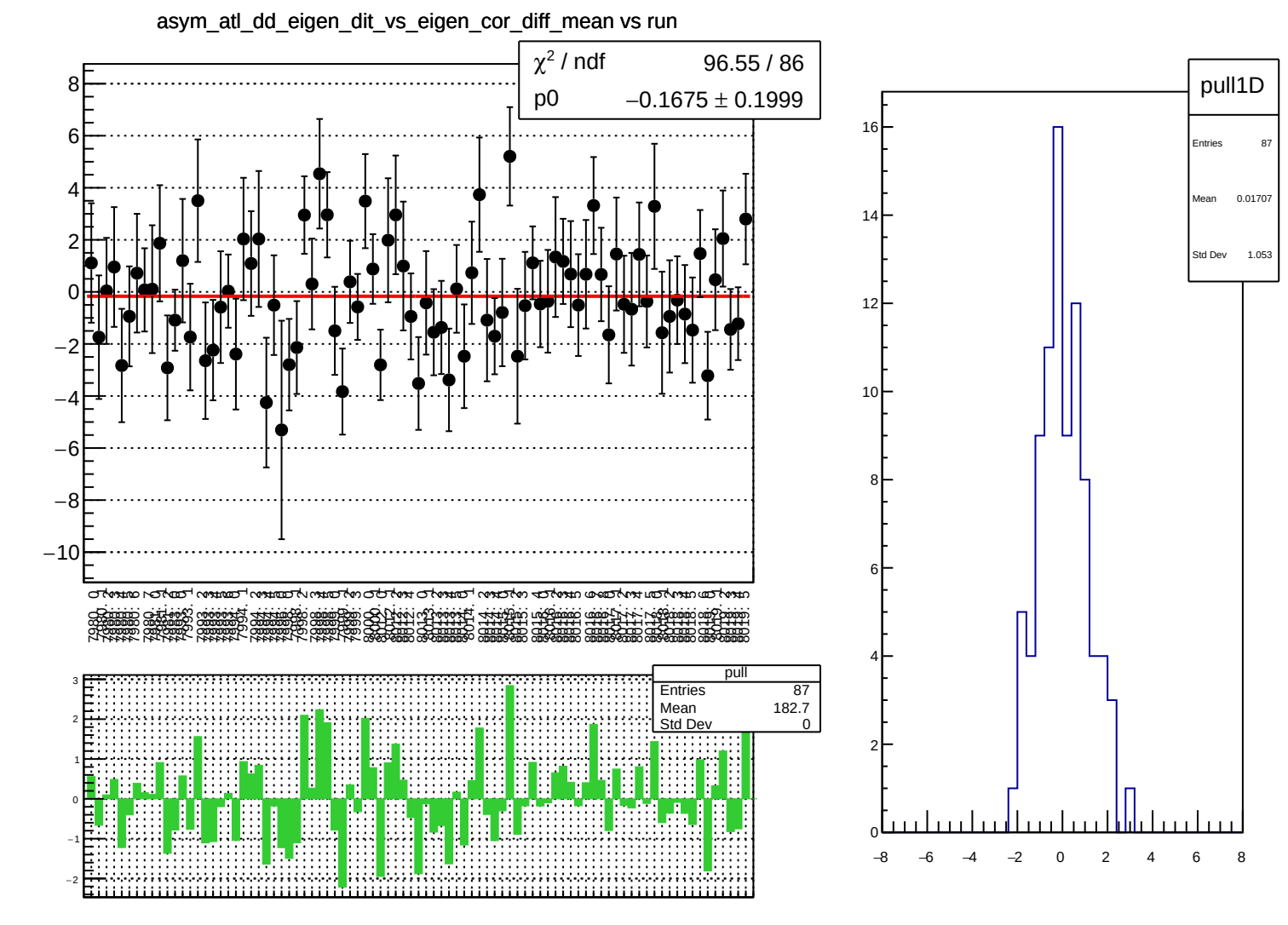

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 86.17 / 86
p0 3.189e−05 ± 1.52e−05
pull
Entries 87
Mean −41.67
Std Dev 0

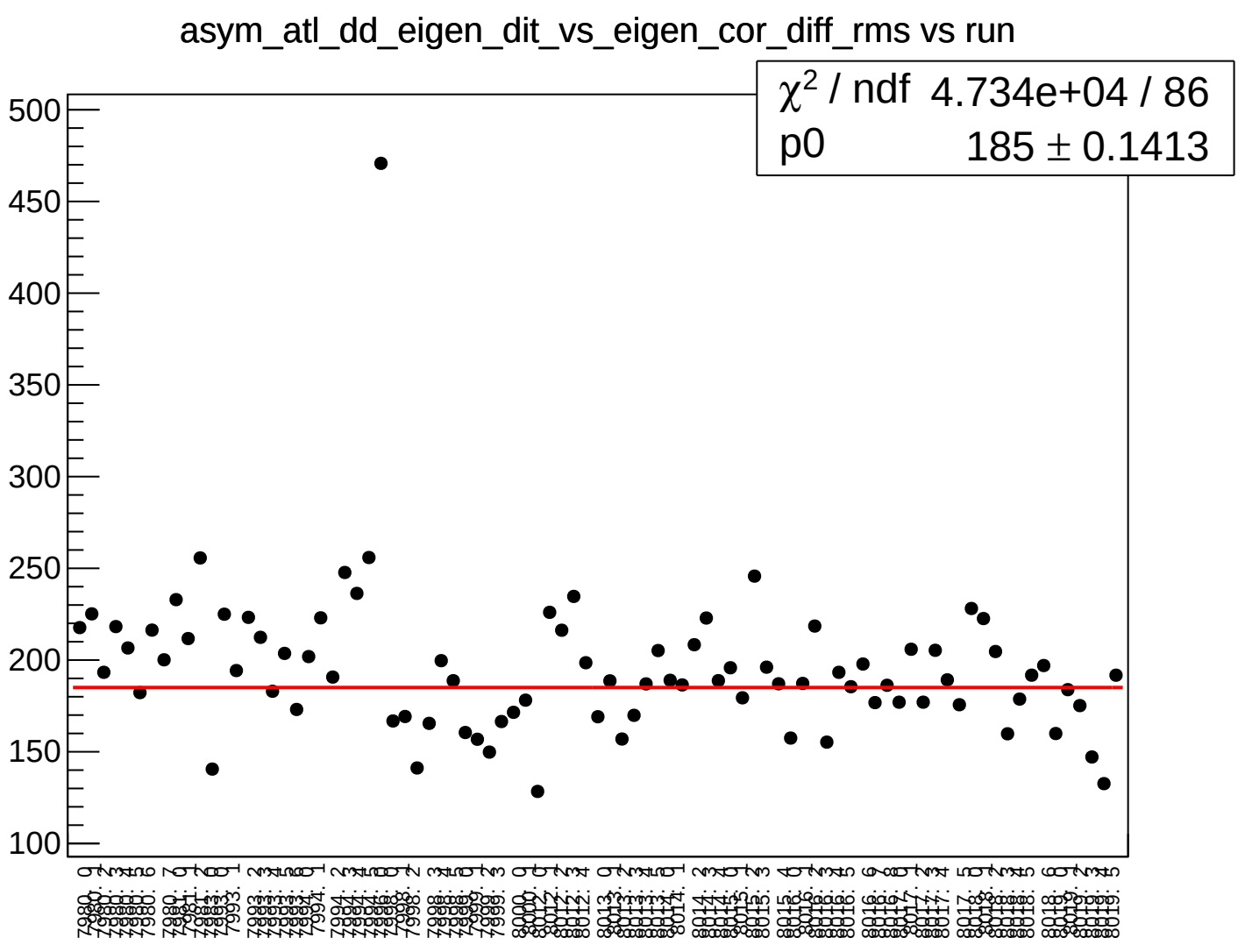

pull1D
Entries 87
Mean −0.006526
Std Dev 0.9952

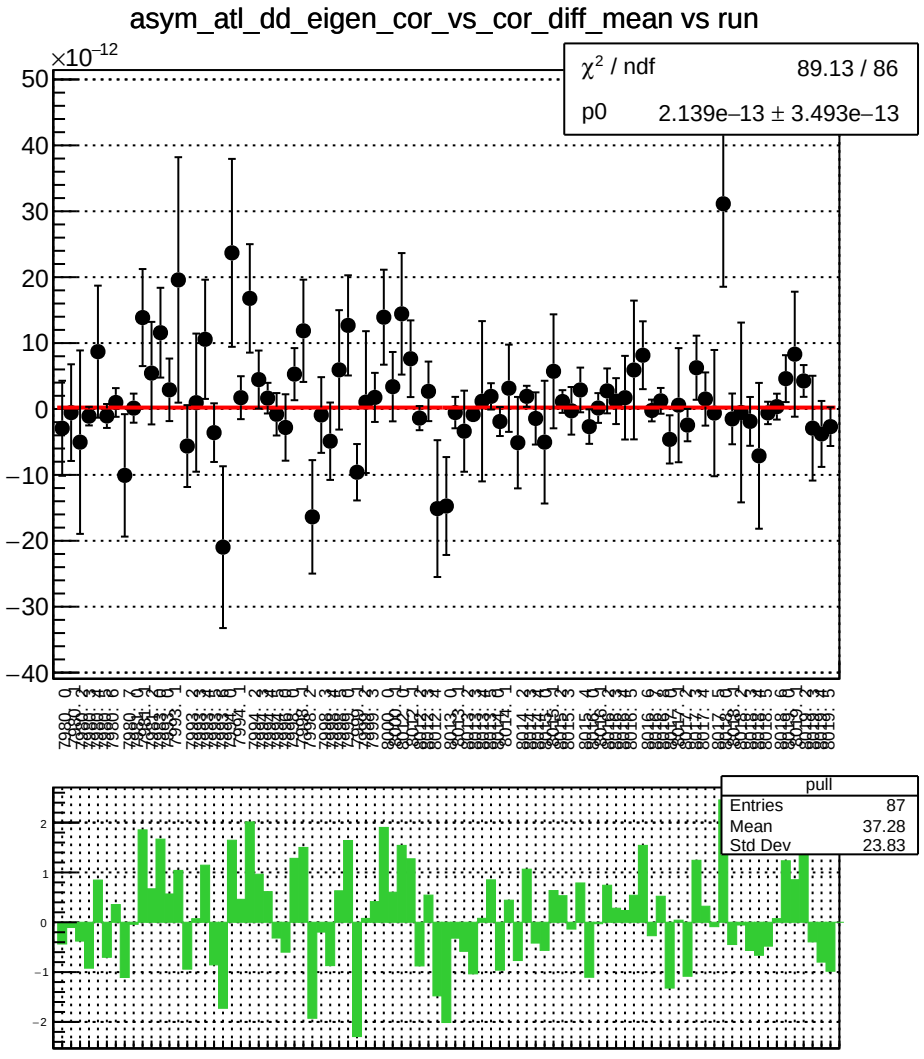

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.808e+04 / 86
p0 0.0139 ± 1.075e−05
0.02
0.018
0.016
0.014
0.012
0.01

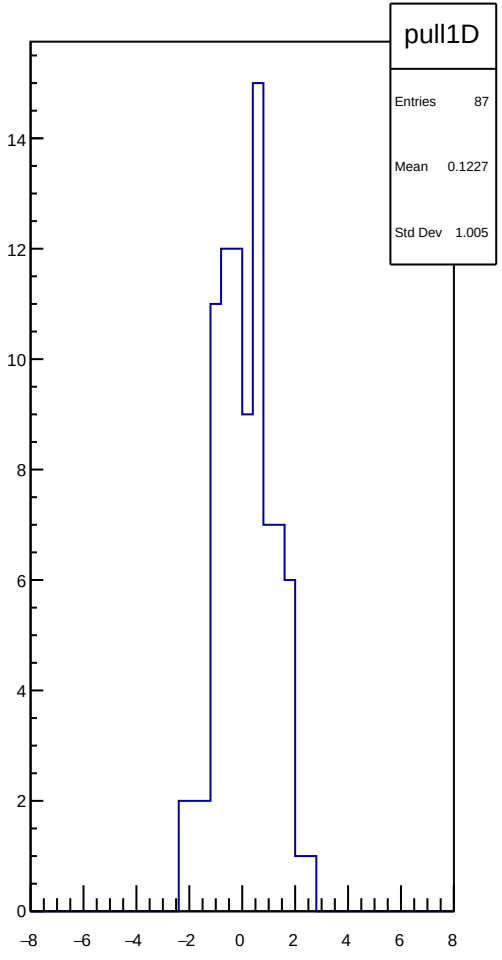

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.55 / 86
p0 −0.1675 ± 0.1999
pull
Entries 87
Mean 182.7
Std Dev 0
pull1D
Entries 87
Mean 0.01707
Std Dev 1.053

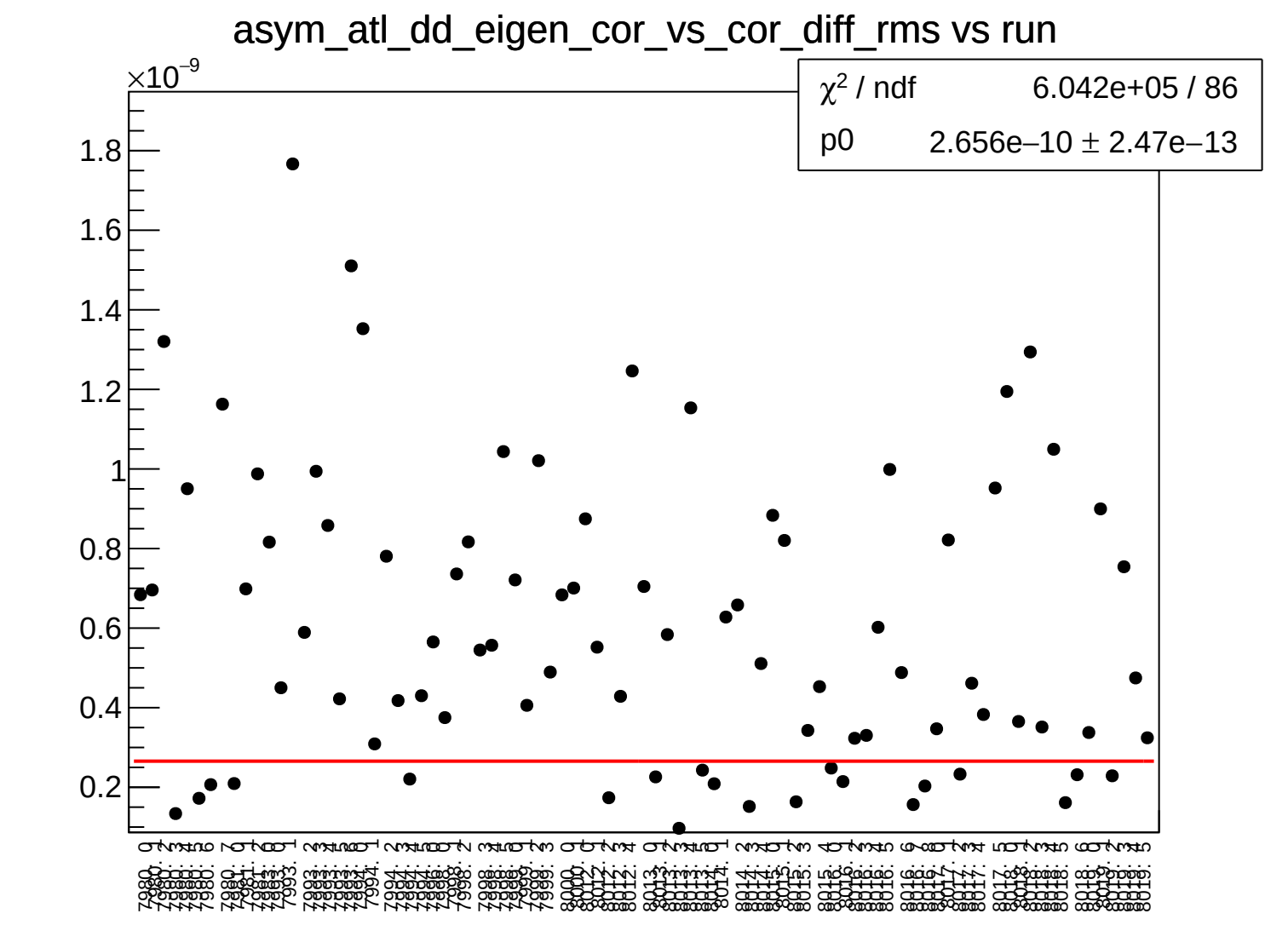

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.734e+04 / 86
p0 185 ± 0.1413
500
450
400
350
300
250
200
150
100

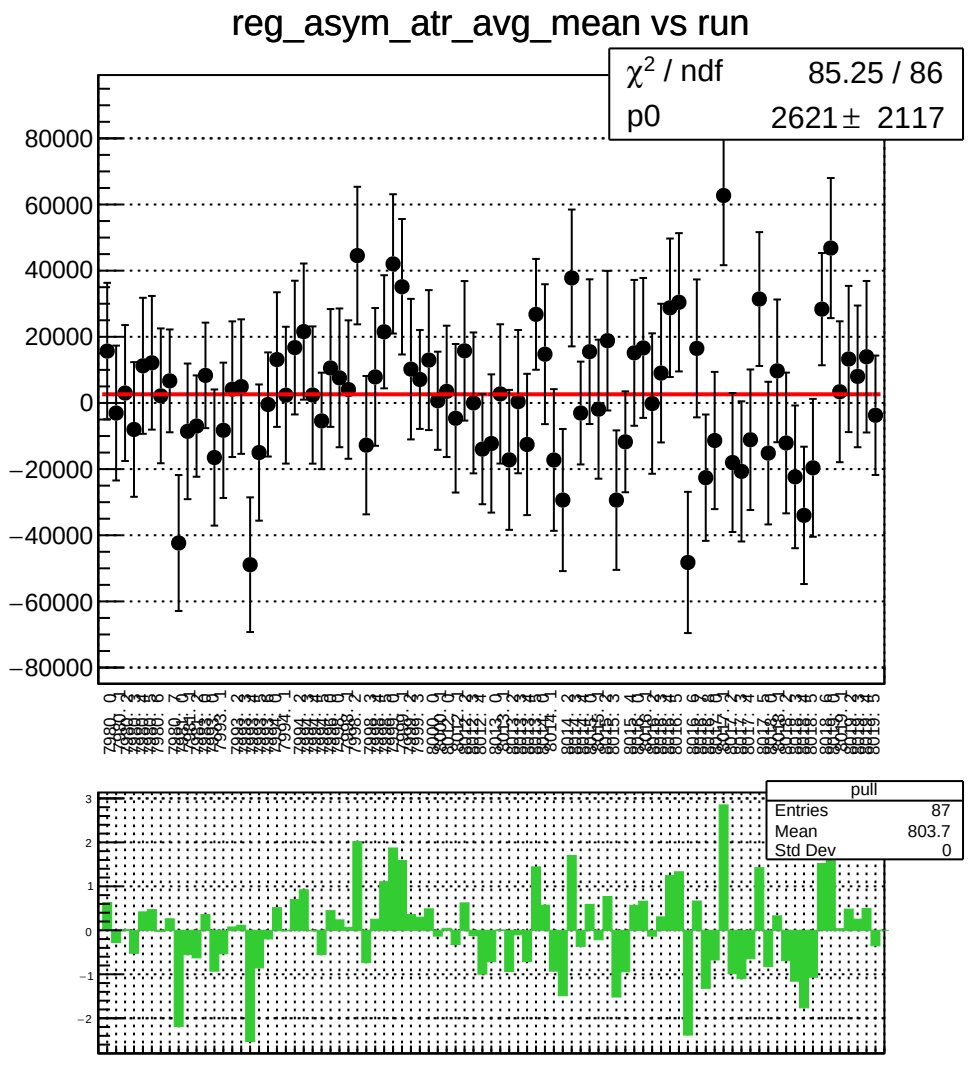

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.55 / 86
p0 −0.1675 ± 0.1999
pull
Entries 87
Mean 182.7
Std Dev 0
pull1D
Entries 87
Mean 0.01707
Std Dev 1.053

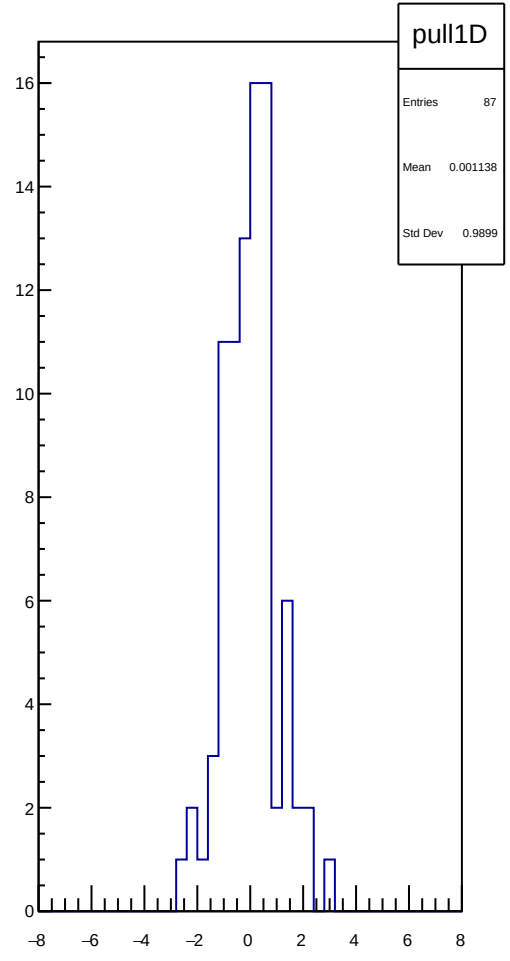

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.734e+04 / 86
p0 185 ± 0.1413
500
450
400
350
300
250
200
150
100

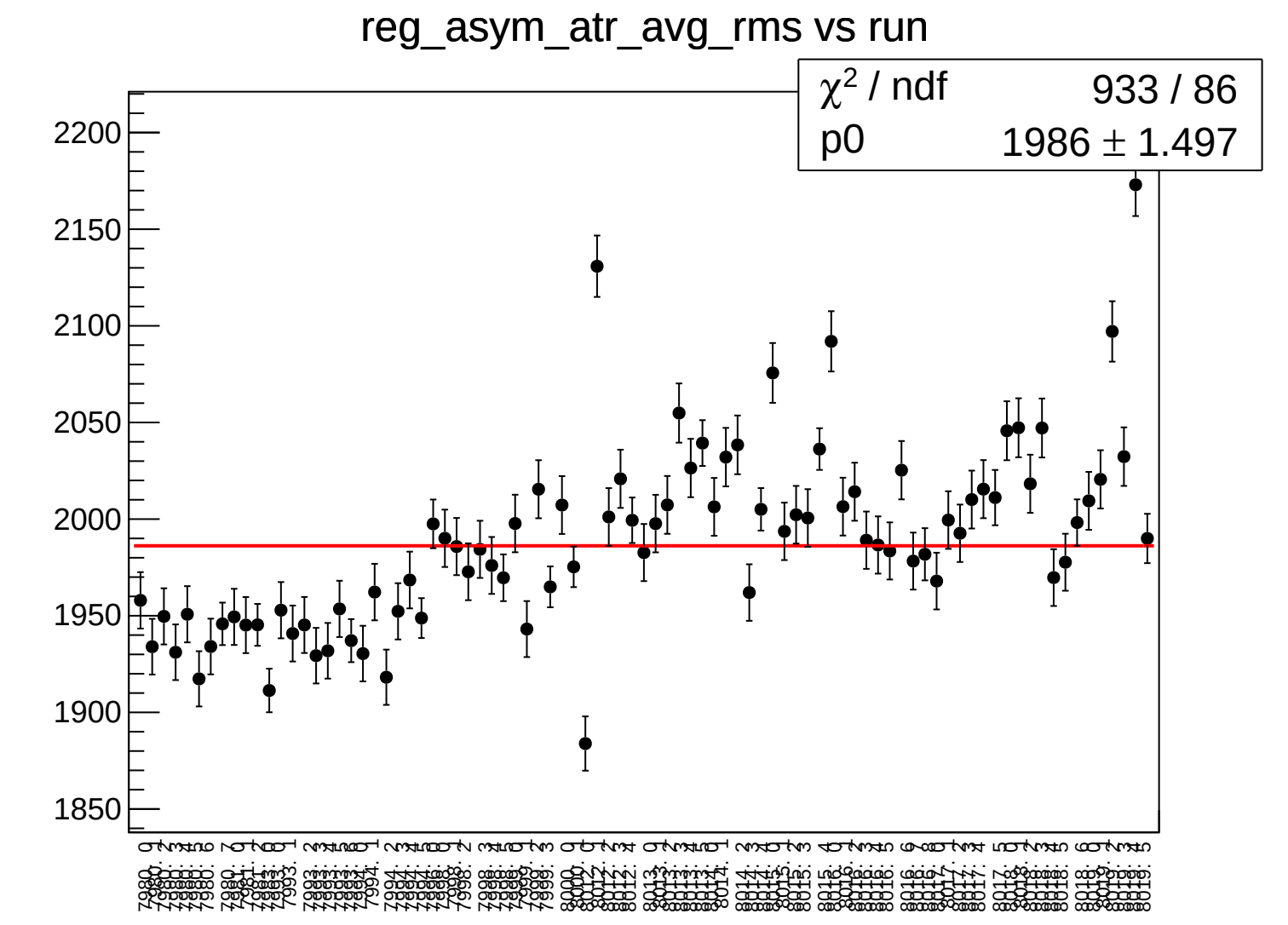

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.13 / 86
p0 2.139e−13 ± 3.493e−13
pull
Entries 87
Mean 37.28
Std Dev 23.83

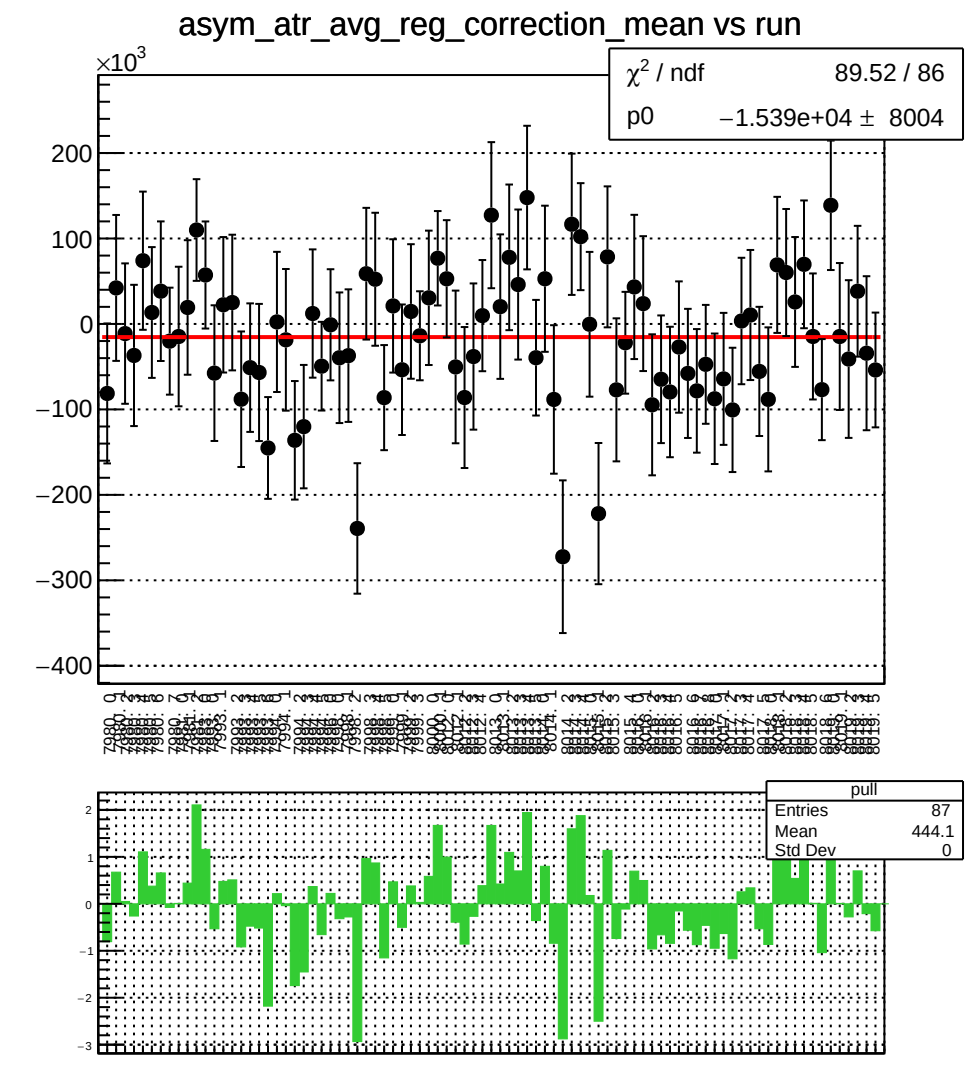

pull1D
Entries 87
Mean 0.1227
Std Dev 1.005

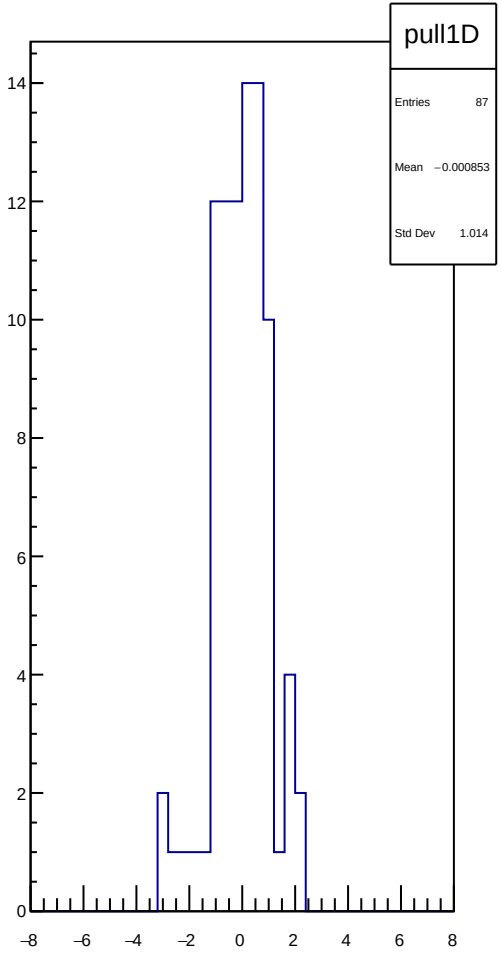

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.042e+05 / 86
p0 2.656e−10 ± 2.47e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

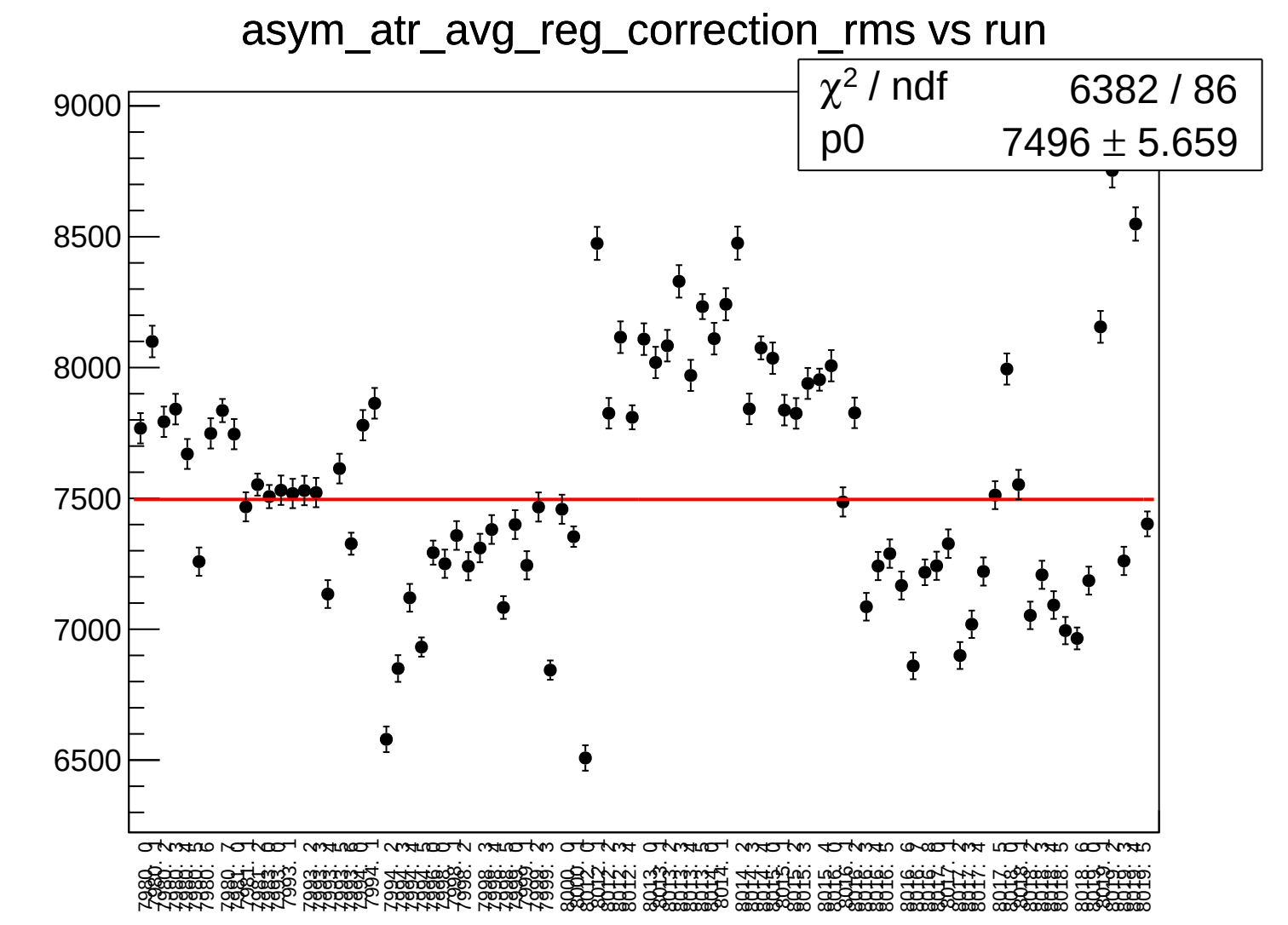

reg_asym_atr_avg_mean vs run
χ² / ndf 85.25 / 86
p0 2621 ± 2117
pull
Entries 87
Mean 803.7
Std Dev 0

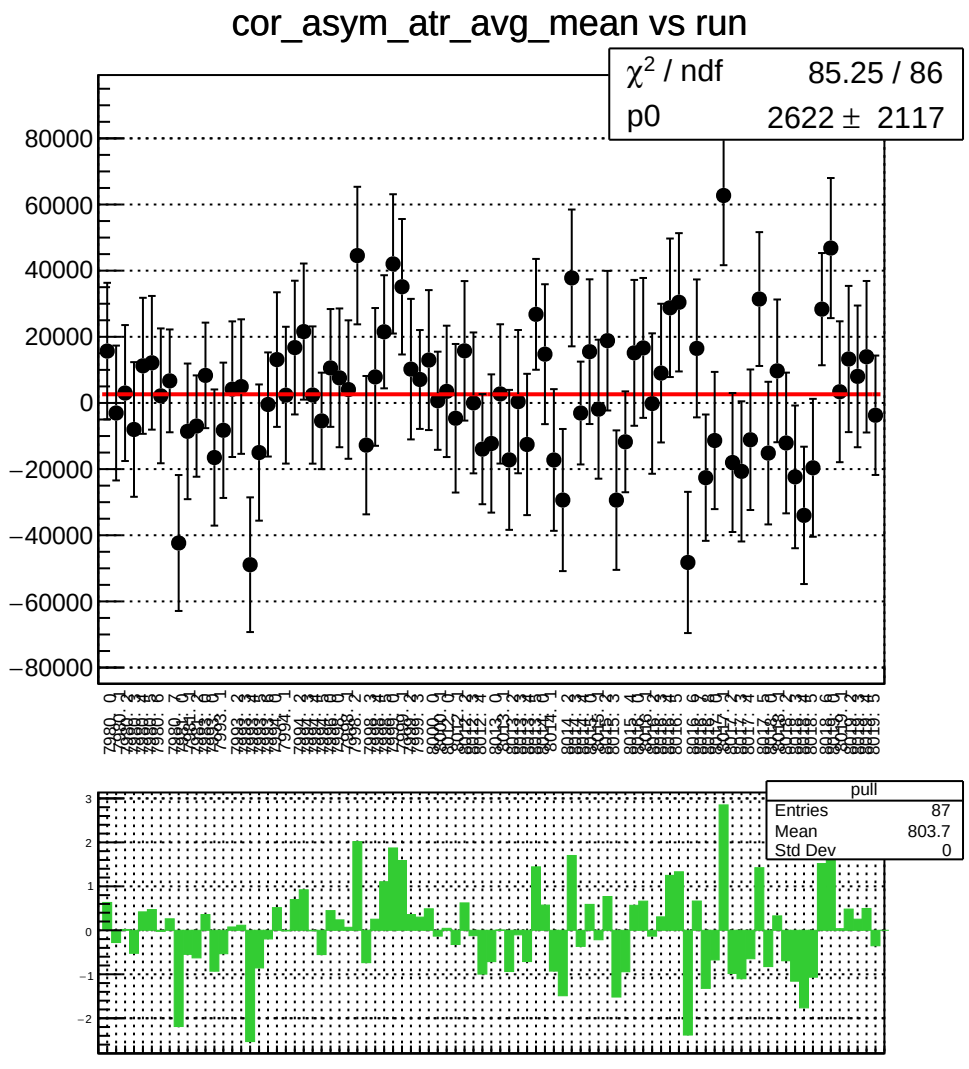

pull1D
Entries 87
Mean 0.001138
Std Dev 0.9899

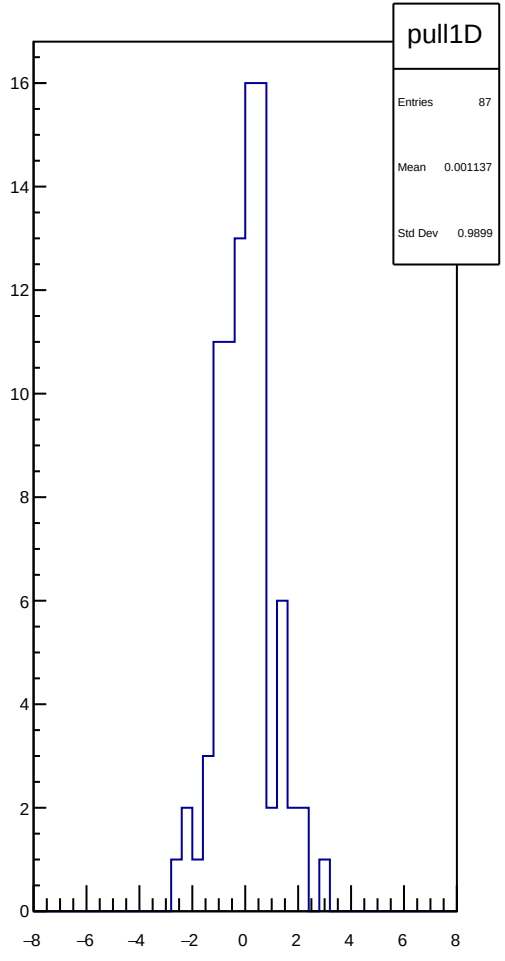

reg_asym_atr_avg_rms vs run
χ² / ndf 933 / 86
p0 1986 ± 1.497
2200
2150
2100
2050
2000
1950
1900
1850

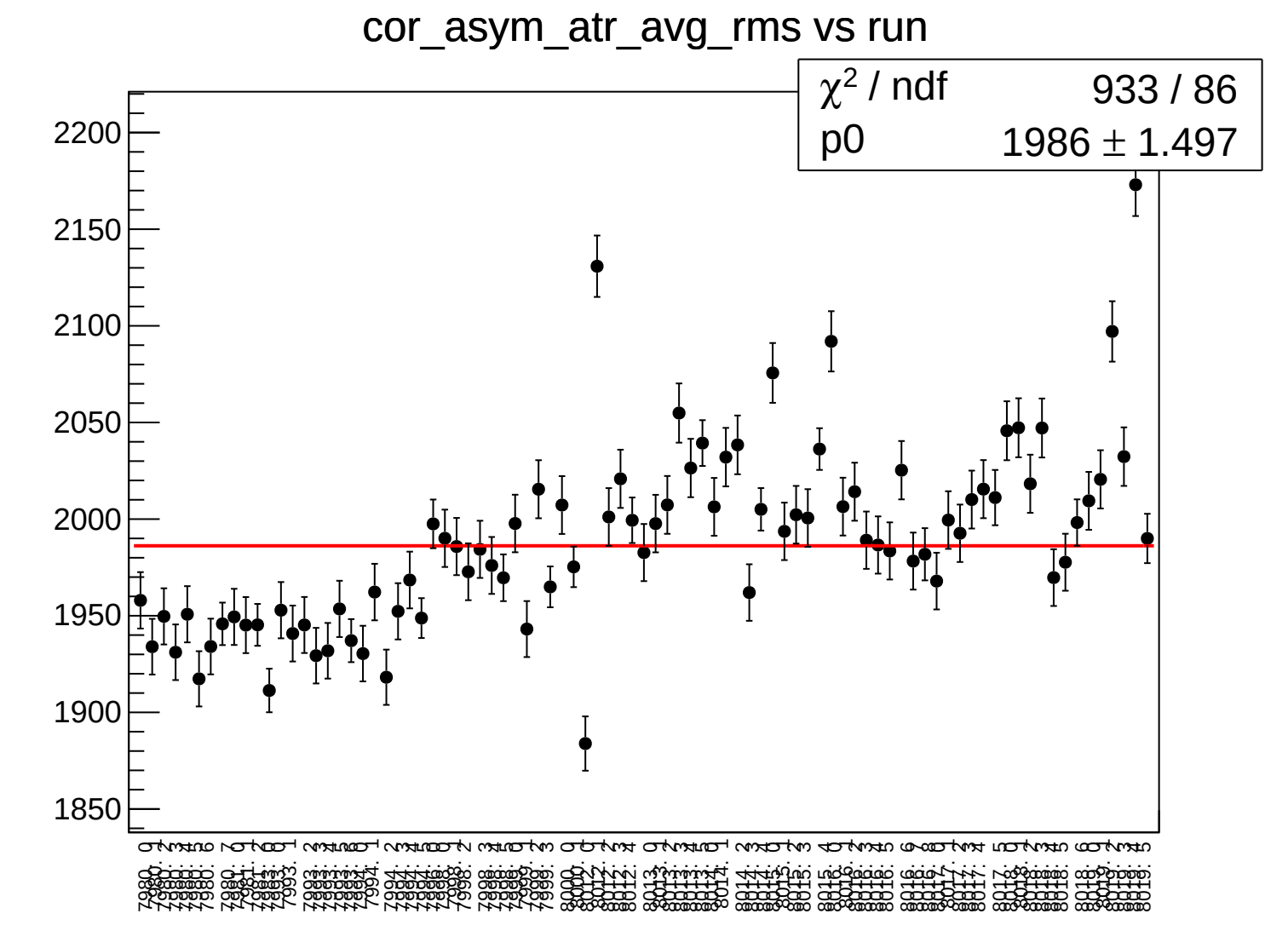

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.52 / 86
p0 −1.539e+04 ± 8004
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean 444.1
Std Dev 0
2
1
0
−1
−2
−3

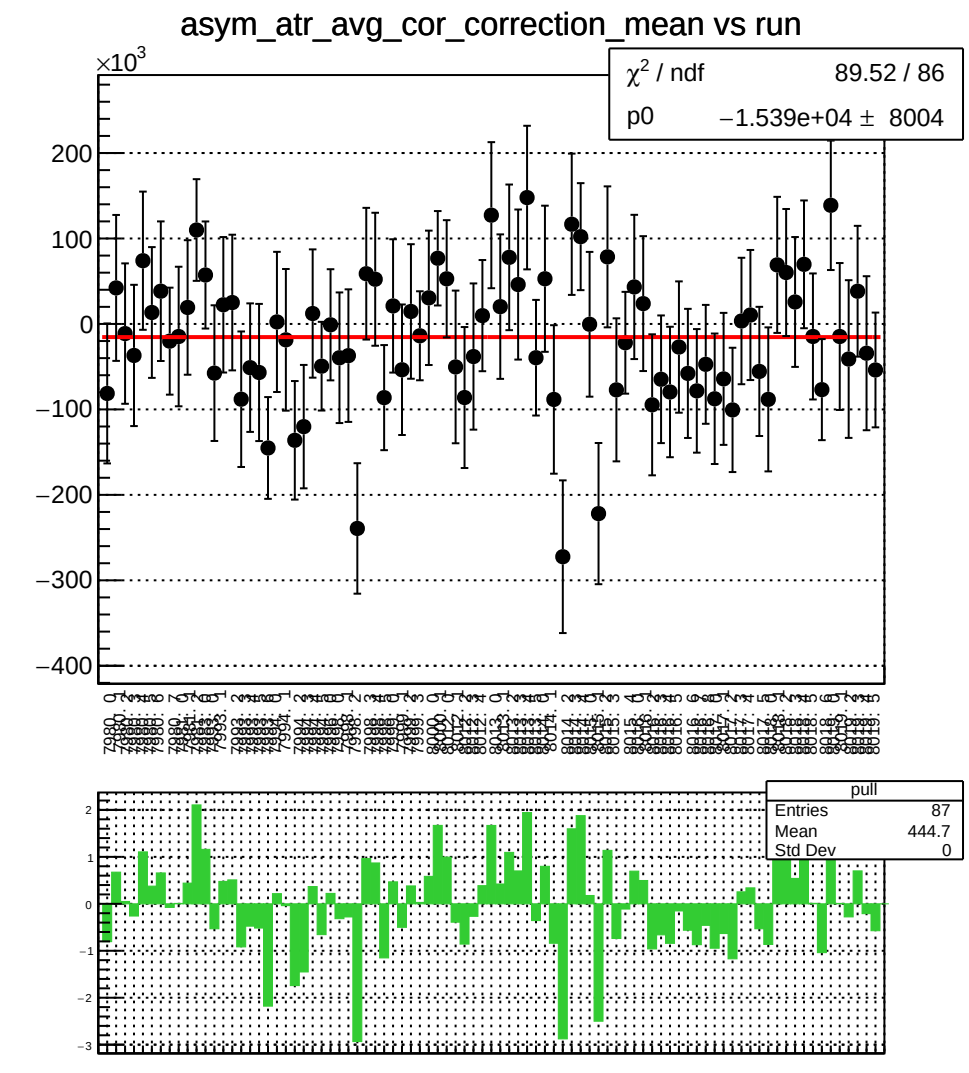

pull1D
Entries 87
Mean −0.000853
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

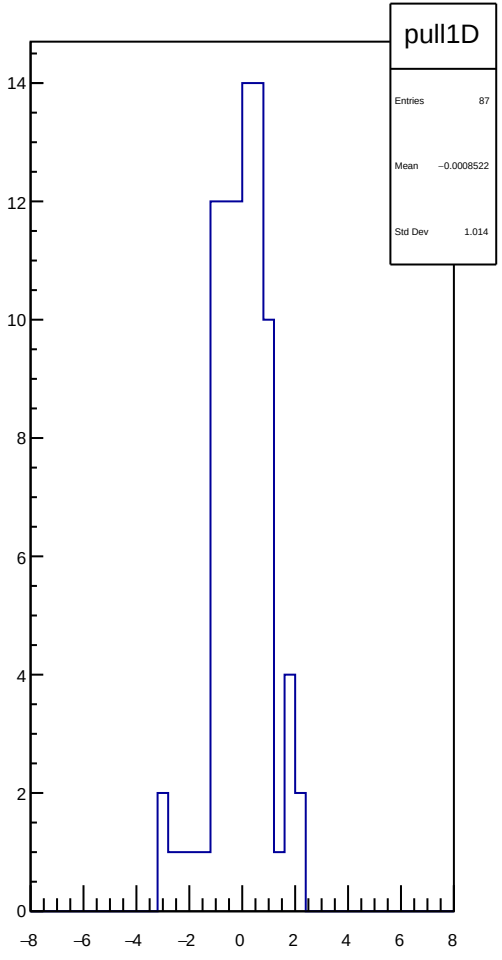

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 6382 / 86
p0 7496 ± 5.659
9000
8500
8000
7500
7000
6500

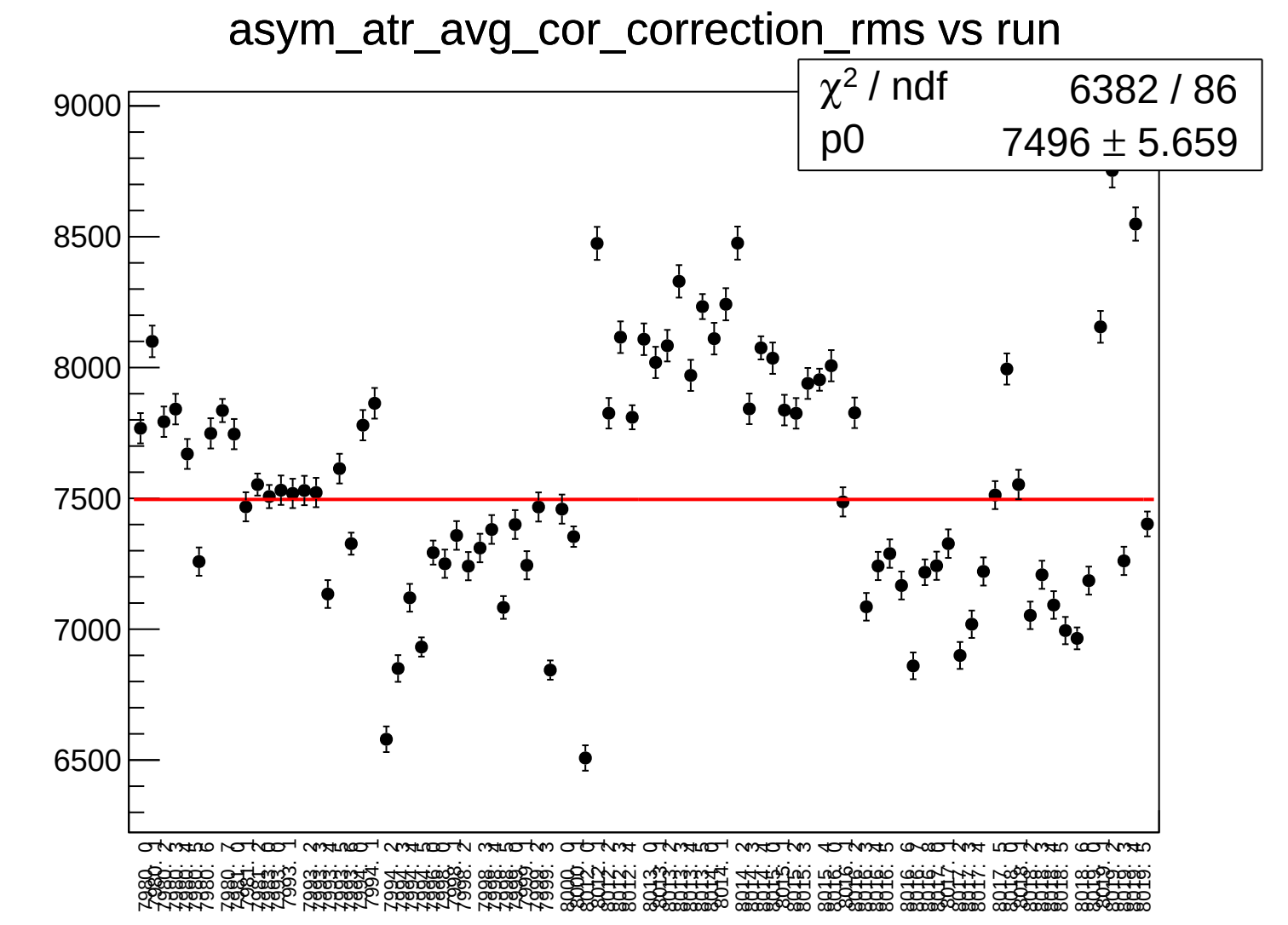

cor_asym_atr_avg_mean vs run
χ² / ndf 85.25 / 86
p0 2622 ± 2117
pull
Entries 87
Mean 803.7
Std Dev 0

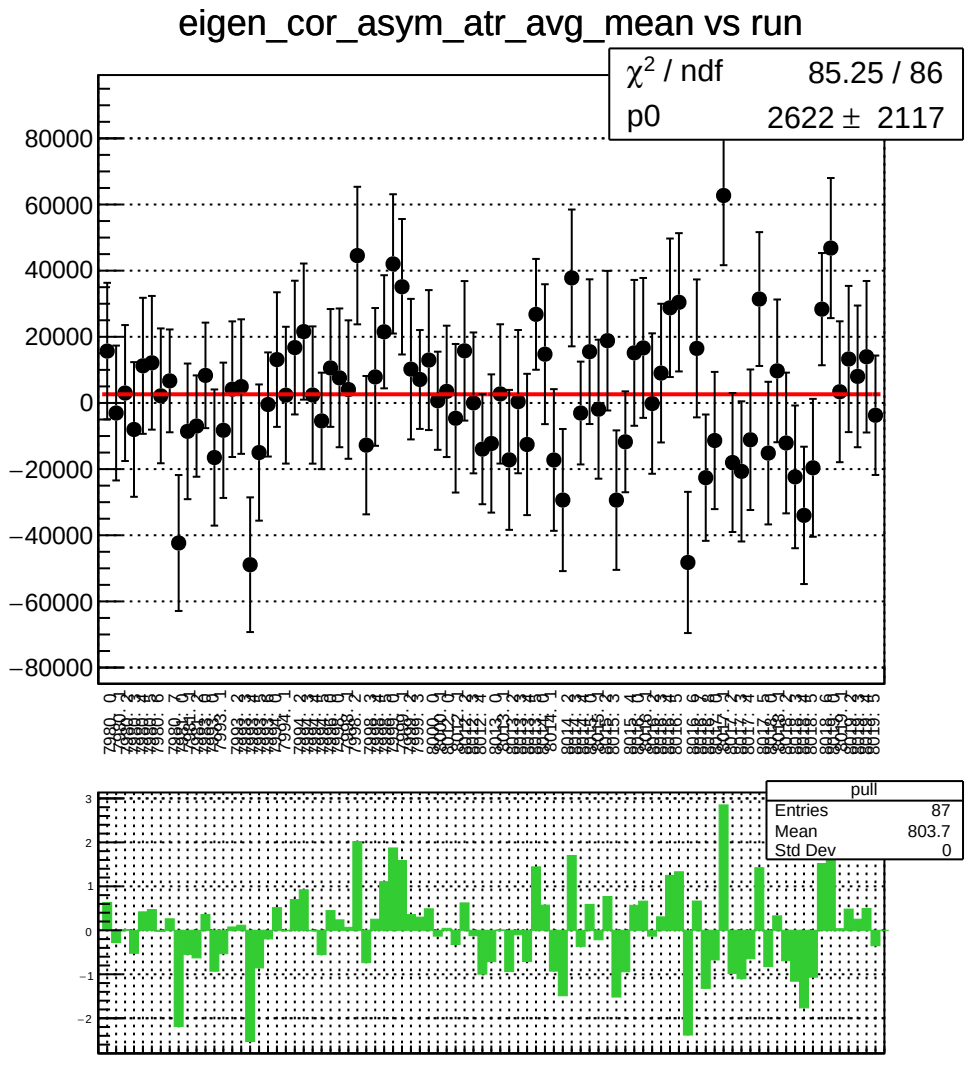

pull1D
Entries 87
Mean 0.001137
Std Dev 0.9899

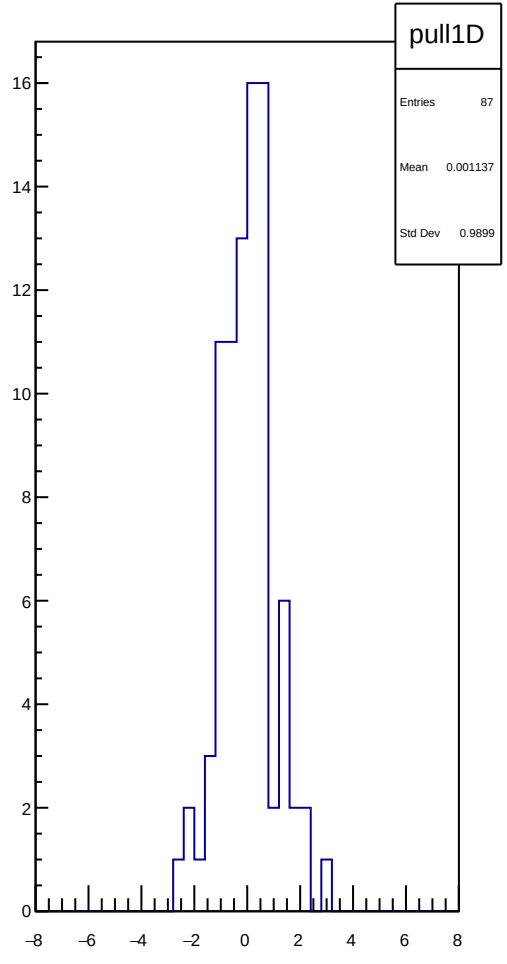

cor_asym_atr_avg_rms vs run
χ^2 / ndf 933 / 86
p0 1986 ± 1.497
2200
2150
2100
2050
2000
1950
1900
1850

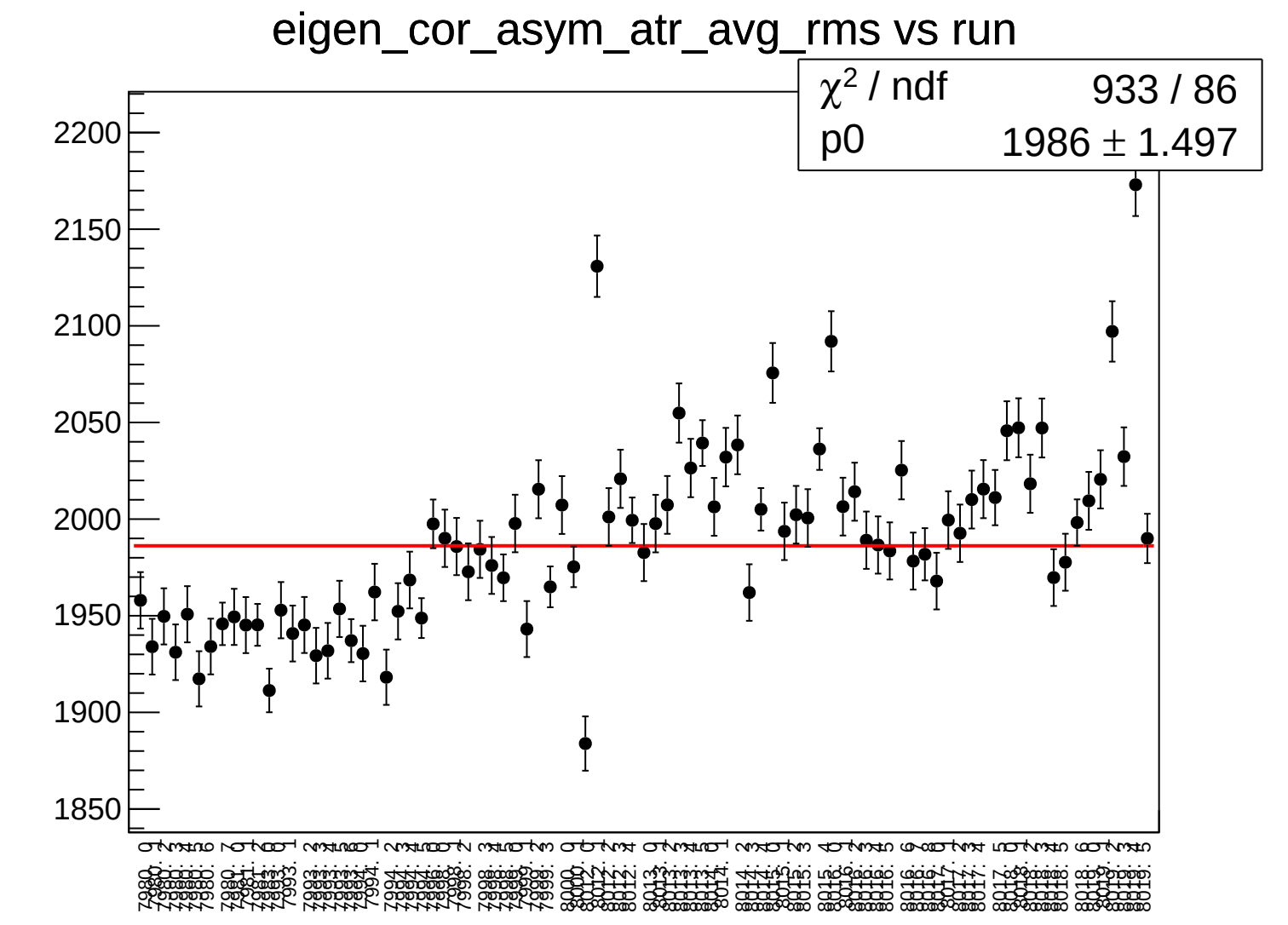

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.52 / 86
p0 −1.539e+04 ± 8004
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean 444.7
Std Dev 0
2
1
0
−1
−2
−3

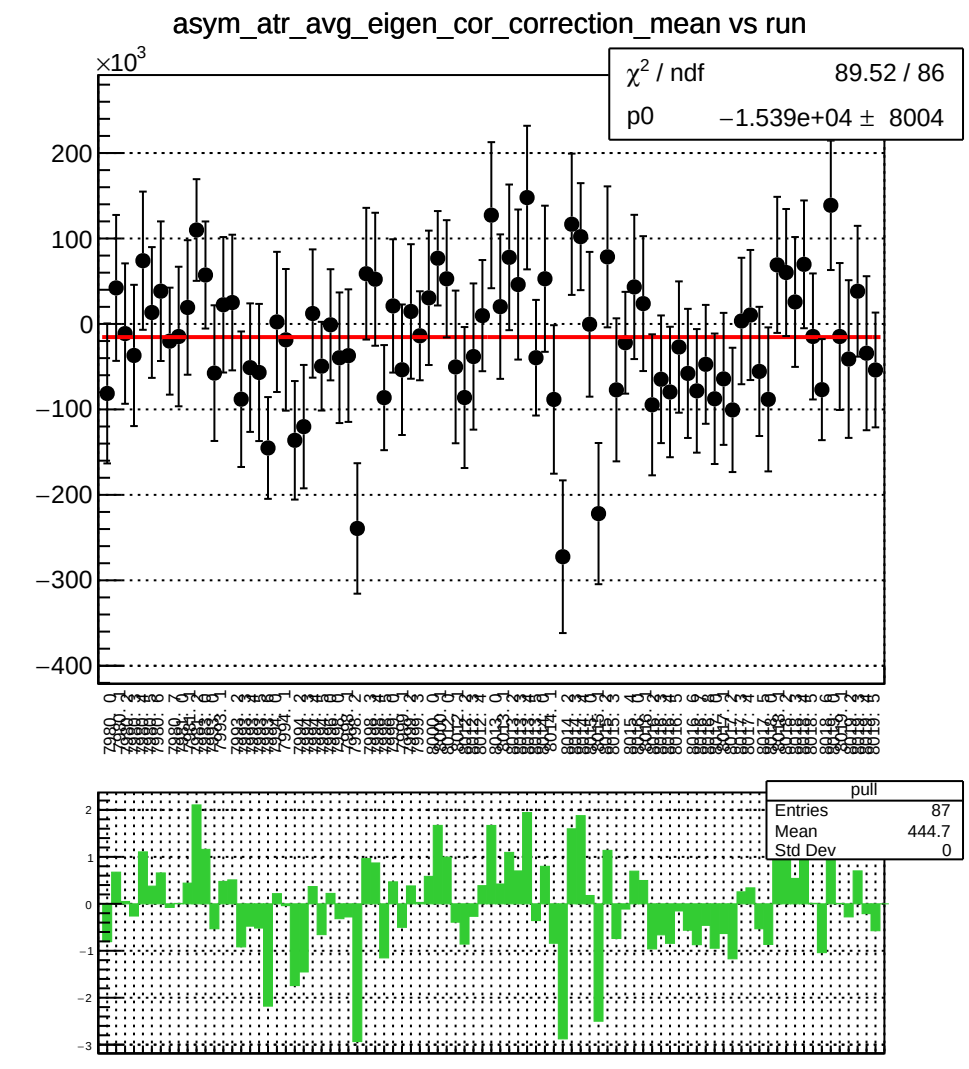

pull1D
Entries 87
Mean −0.0008522
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

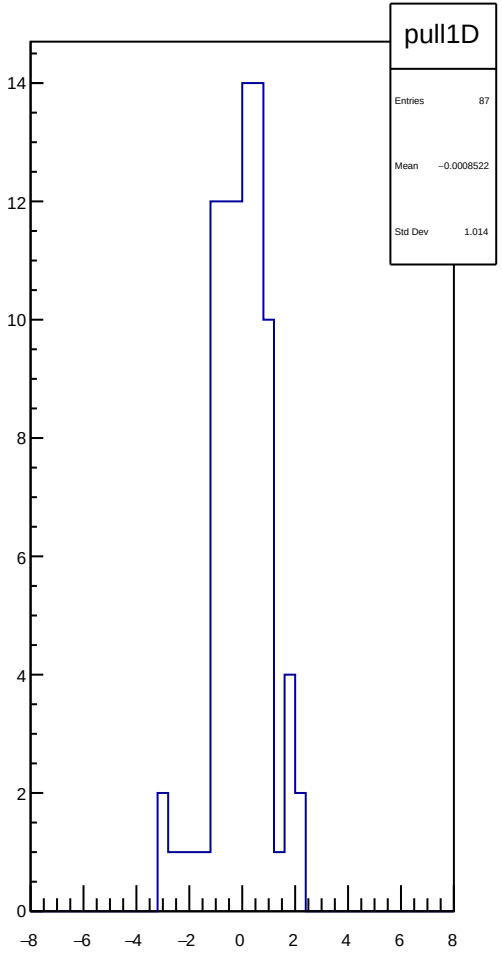

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 6382 / 86
p0 7496 ± 5.659
9000
8500
8000
7500
7000
6500

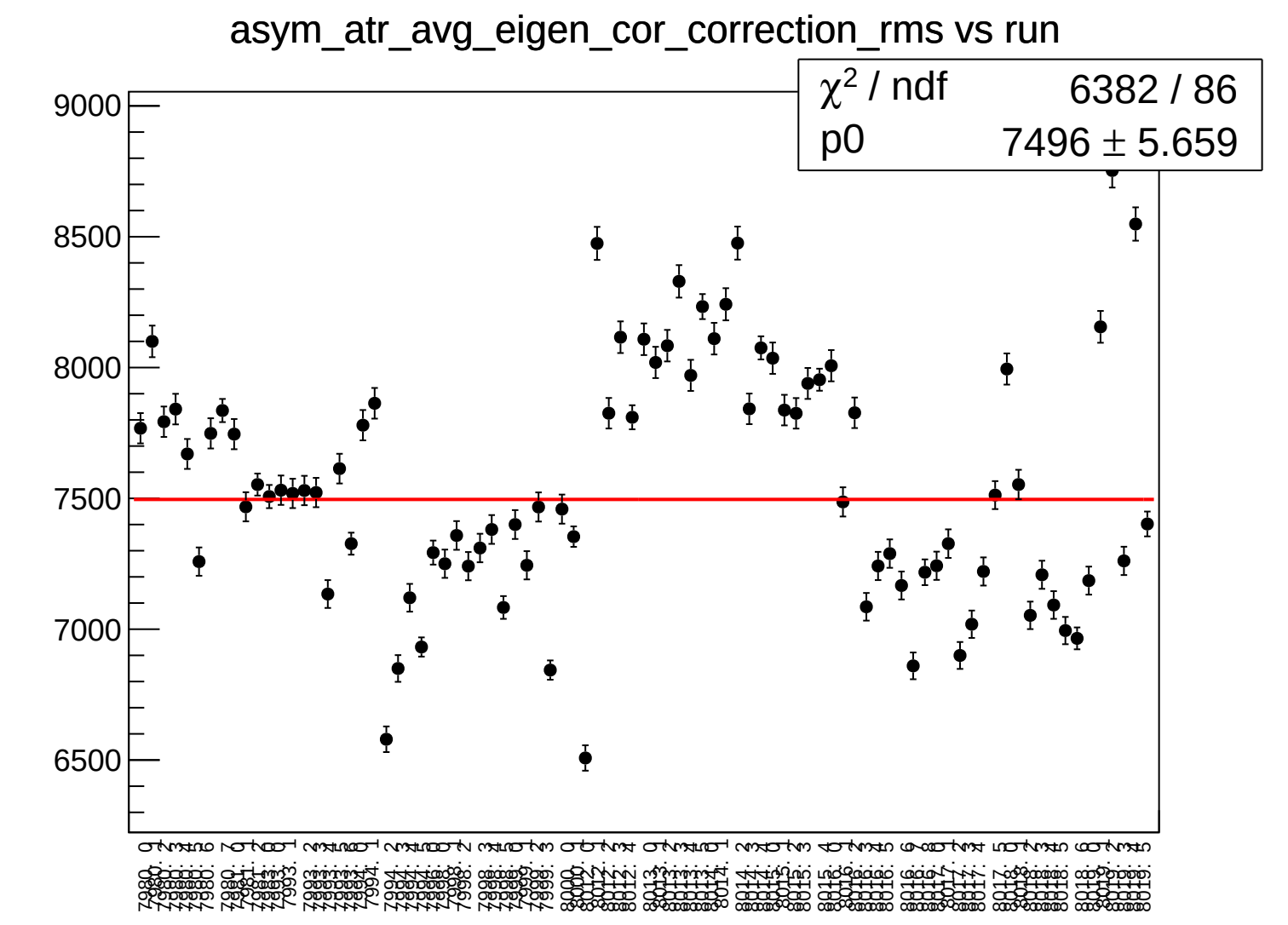

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 85.25 / 86
p0 2622 ± 2117
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 803.7
Std Dev 0
3
2
1
0
−1
−2

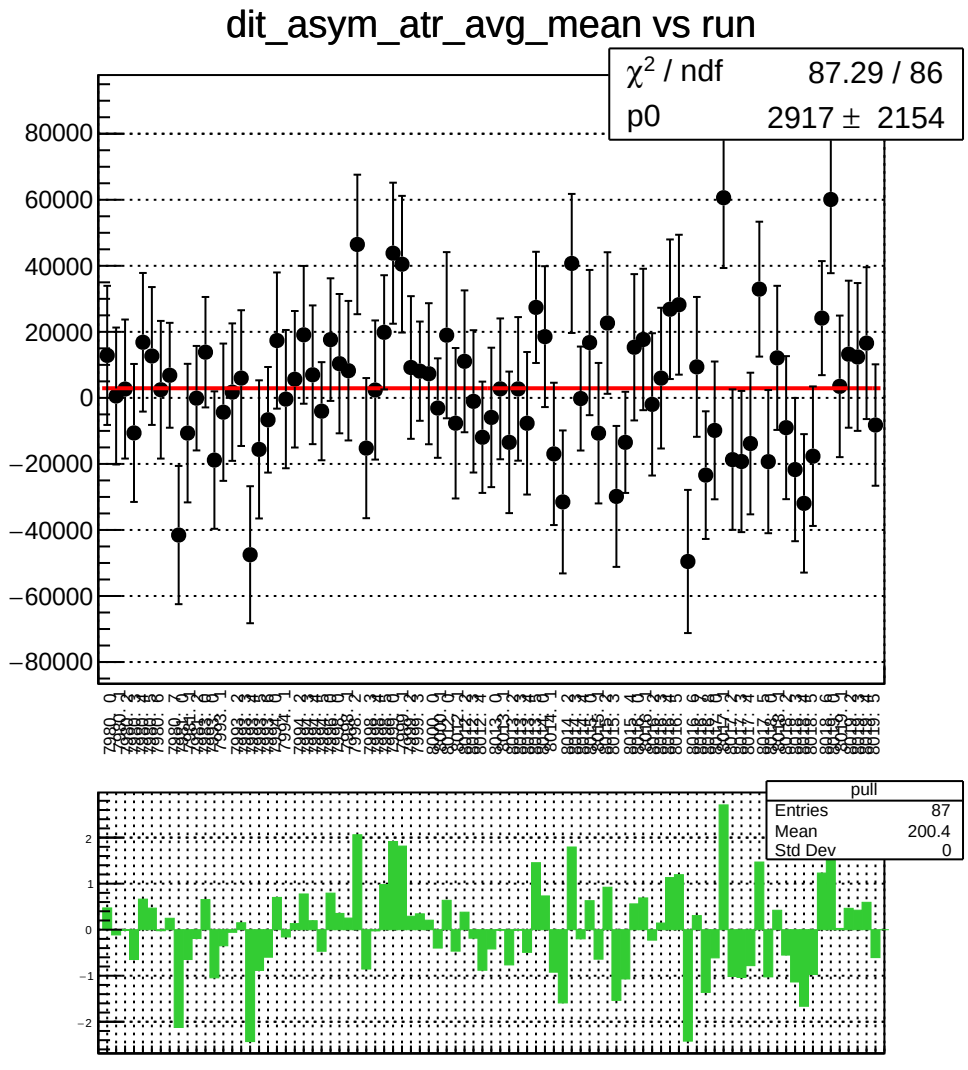

pull1D
Entries 87
Mean 0.001137
Std Dev 0.9899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

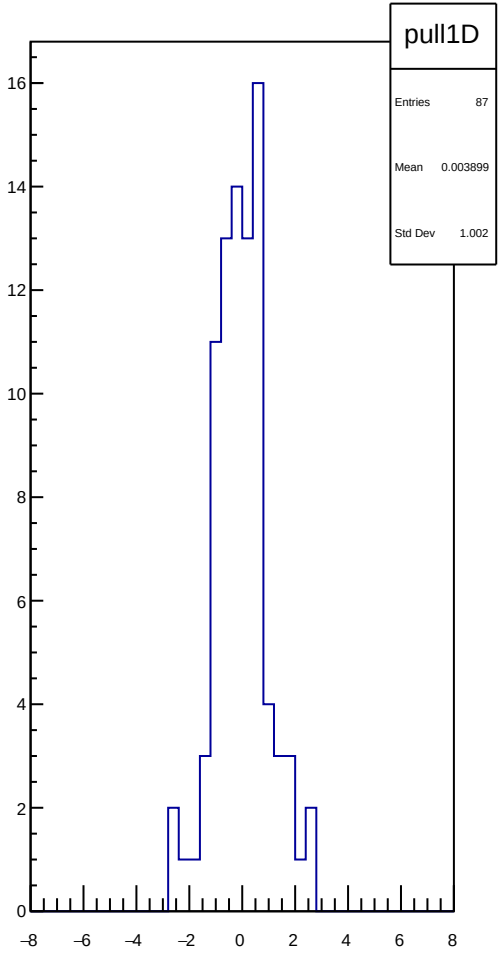

eigen_cor_asym_atr_avg_rms vs run
χ^2 / ndf 933 / 86
p0 1986 ± 1.497
2200
2150
2100
2050
2000
1950
1900
1850

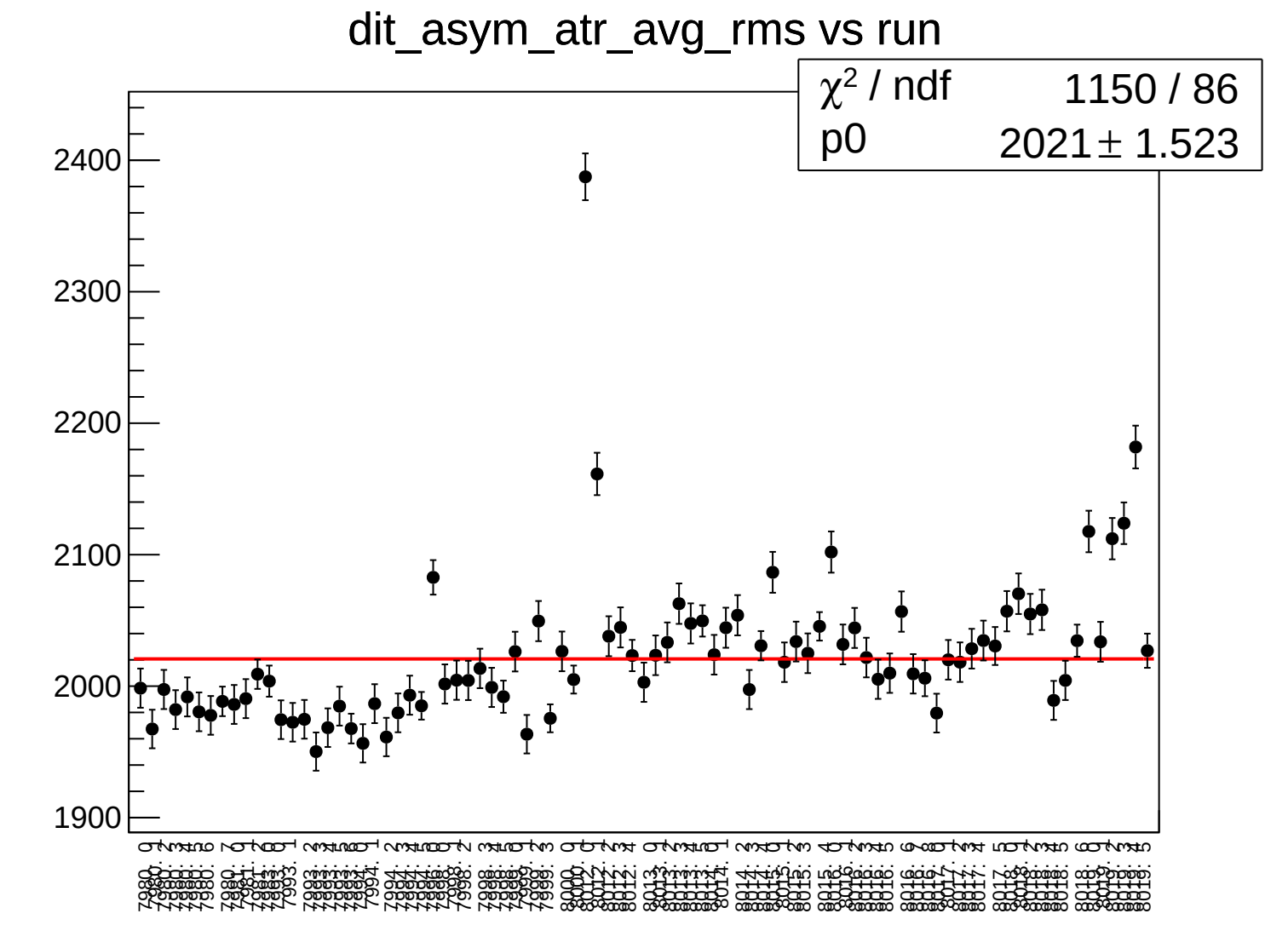

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.52 / 86
p0 −1.539e+04 ± 8004
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean 444.7
Std Dev 0
2
1
0
−1
−2
−3

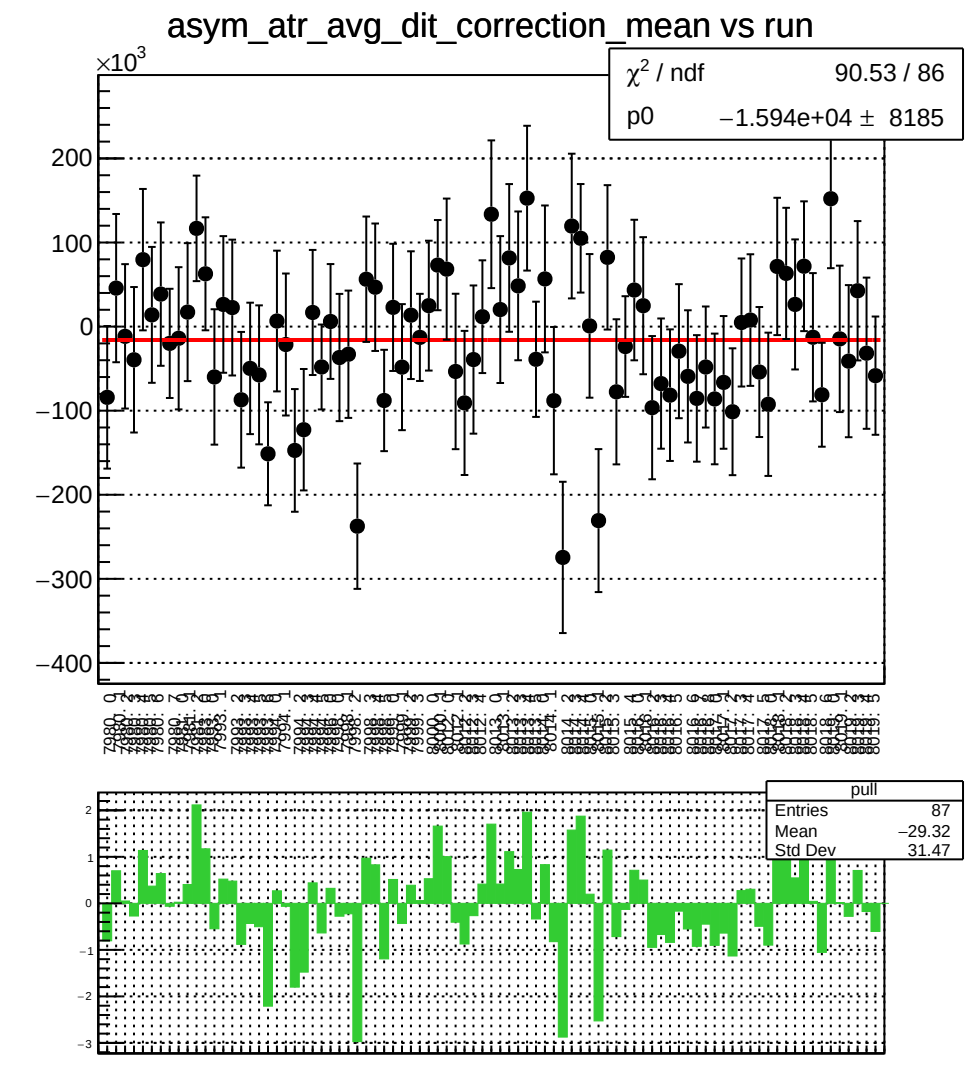

pull1D
Entries 87
Mean −0.0008522
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

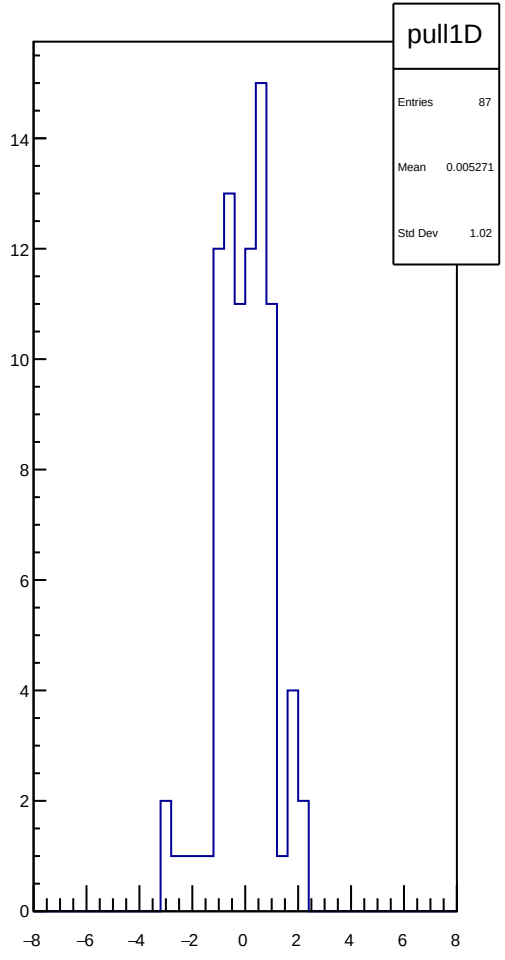

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 6382 / 86
p0 7496 ± 5.659
9000
8500
8000
7500
7000
6500

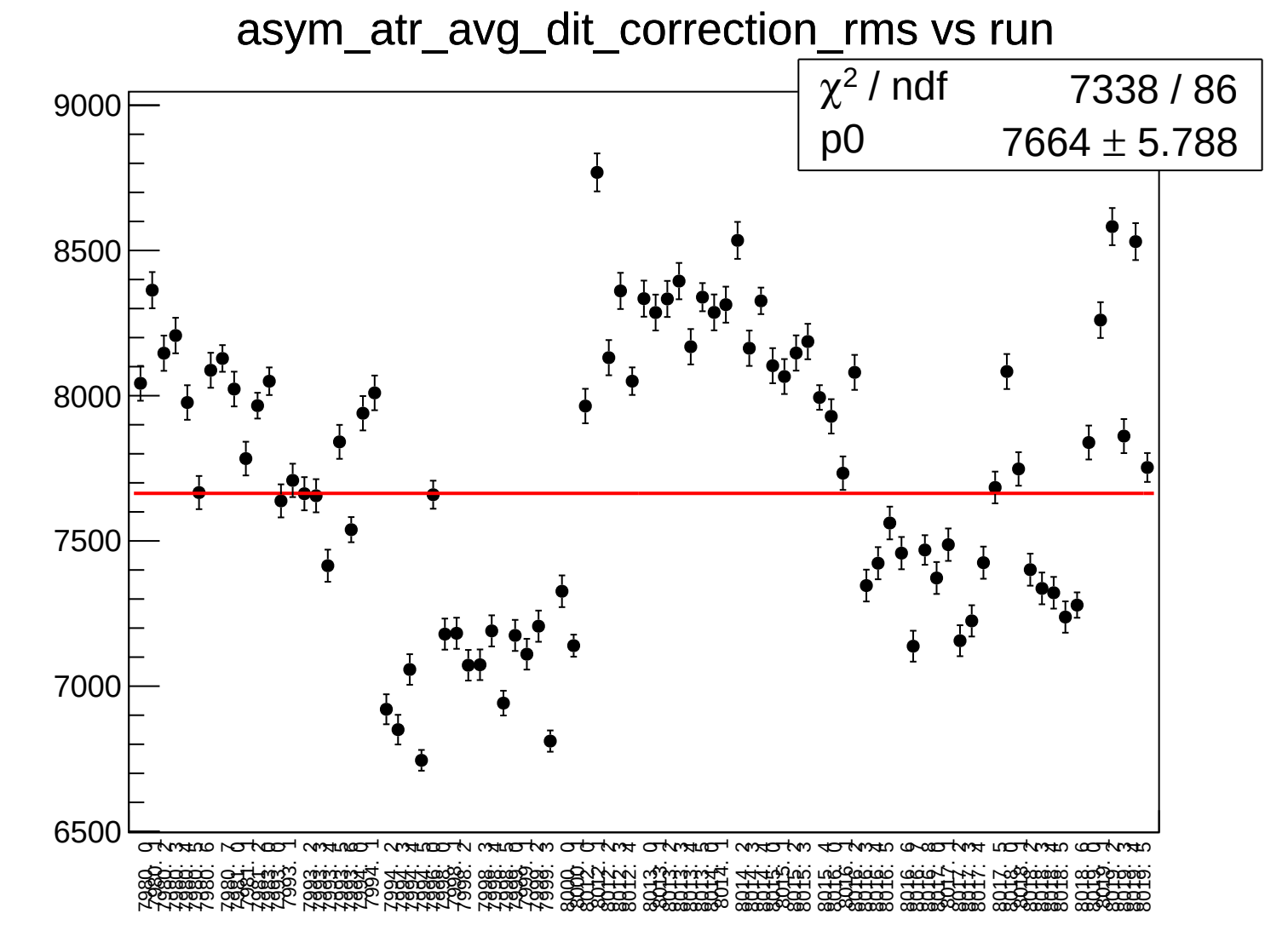

dit_asym_atr_avg_mean vs run
χ² / ndf 87.29 / 86
p0 2917 ± 2154
pull
Entries 87
Mean 200.4
Std Dev 0

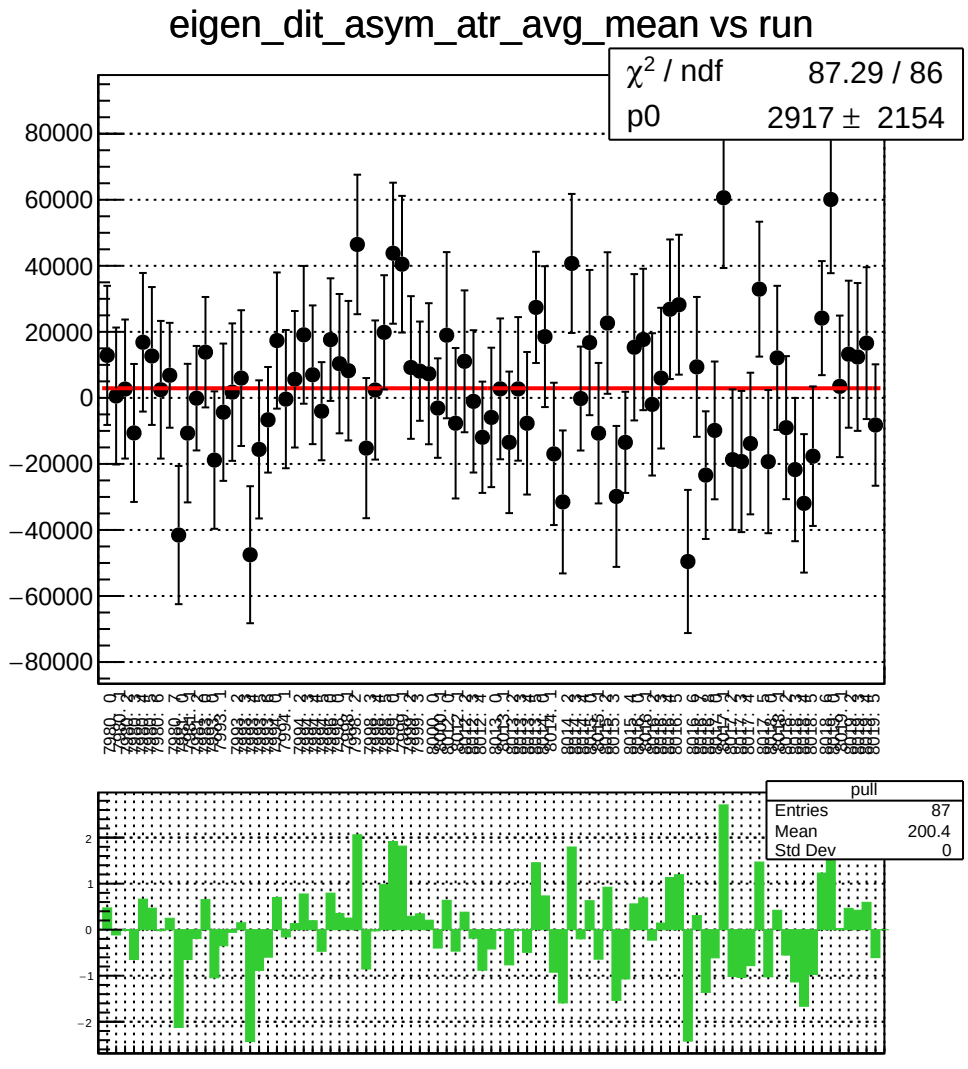

pull1D
Entries 87
Mean 0.003899
Std Dev 1.002

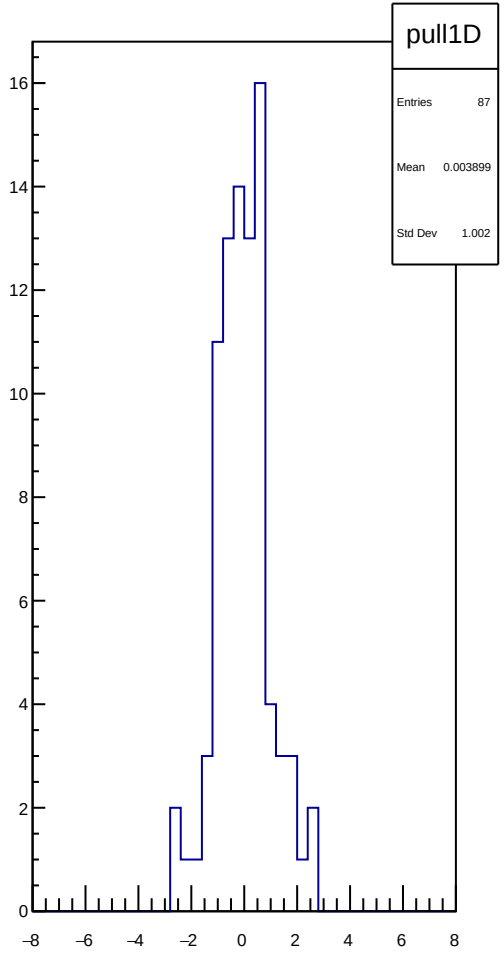

dit_asym_atr_avg_rms vs run
χ² / ndf 1150 / 86
p0 2021 ± 1.523
2400
2300
2200
2100
2000
1900

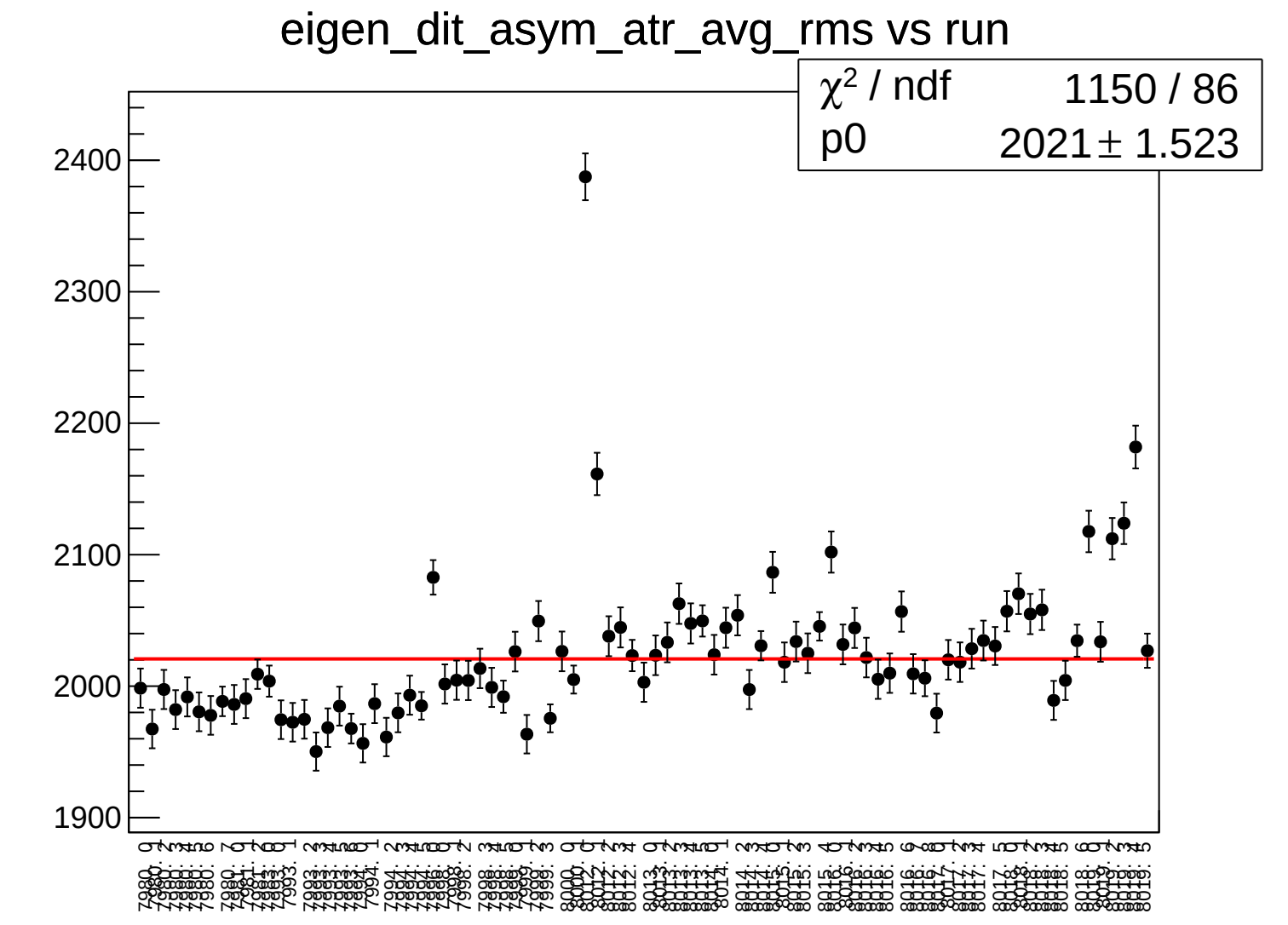

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.53 / 86
p0 −1.594e+04 ± 8185
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean −29.32
Std Dev 31.47
2
1
0
−1
−2
−3

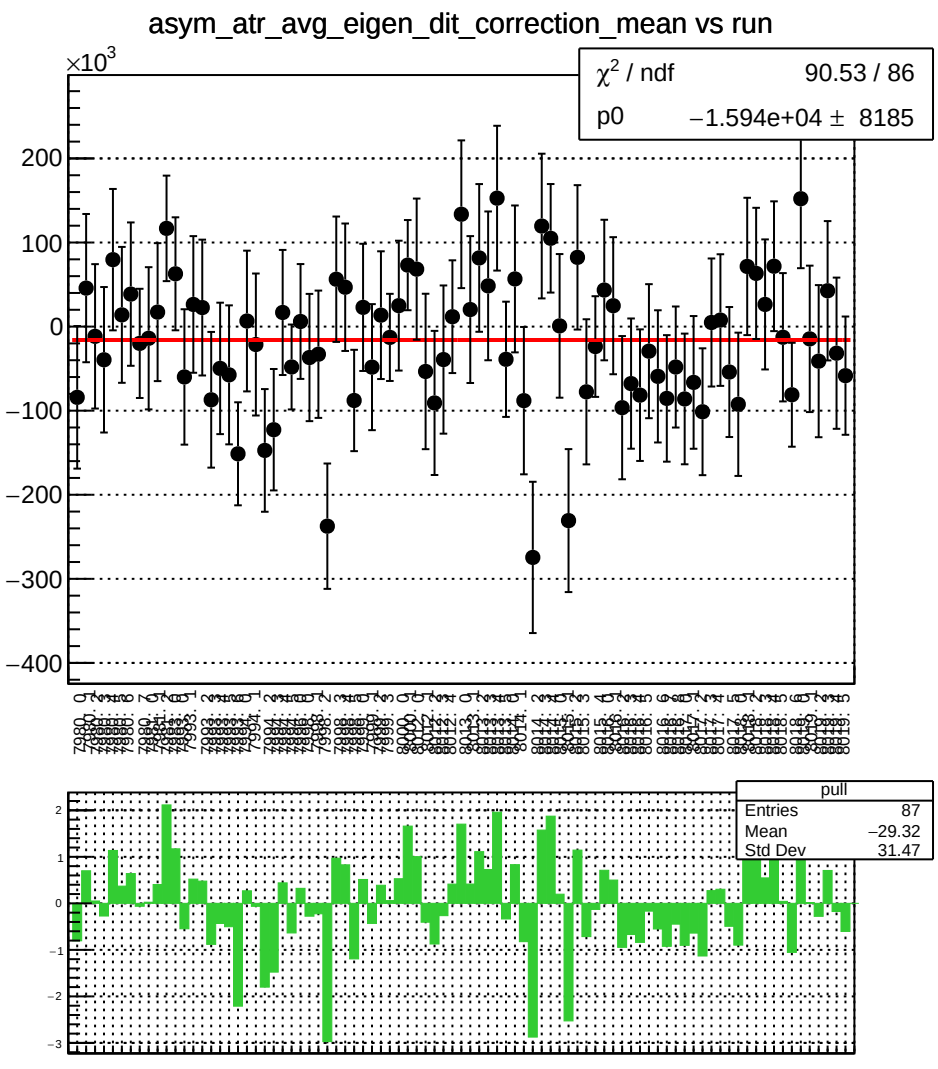

pull1D
Entries 87
Mean 0.005271
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

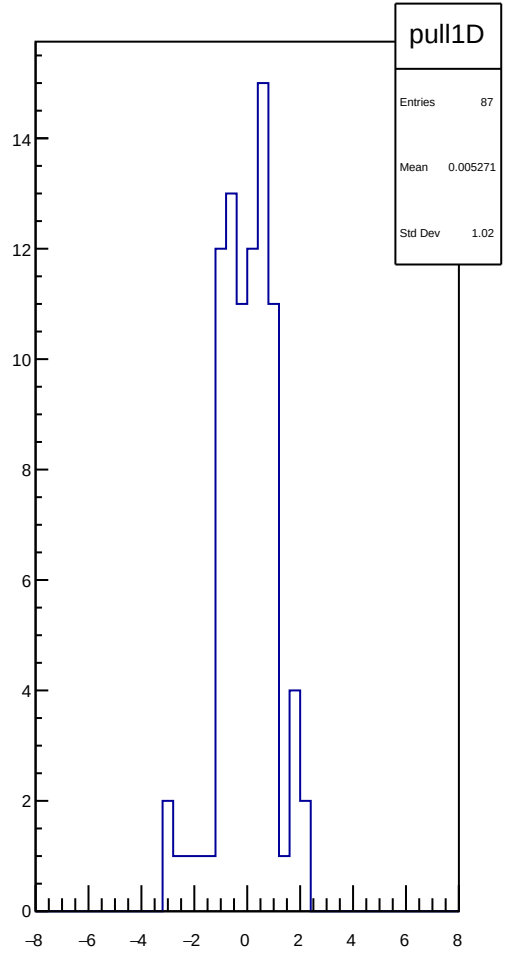

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 7338 / 86
p0 7664 ± 5.788
9000
8500
8000
7500
7000
6500

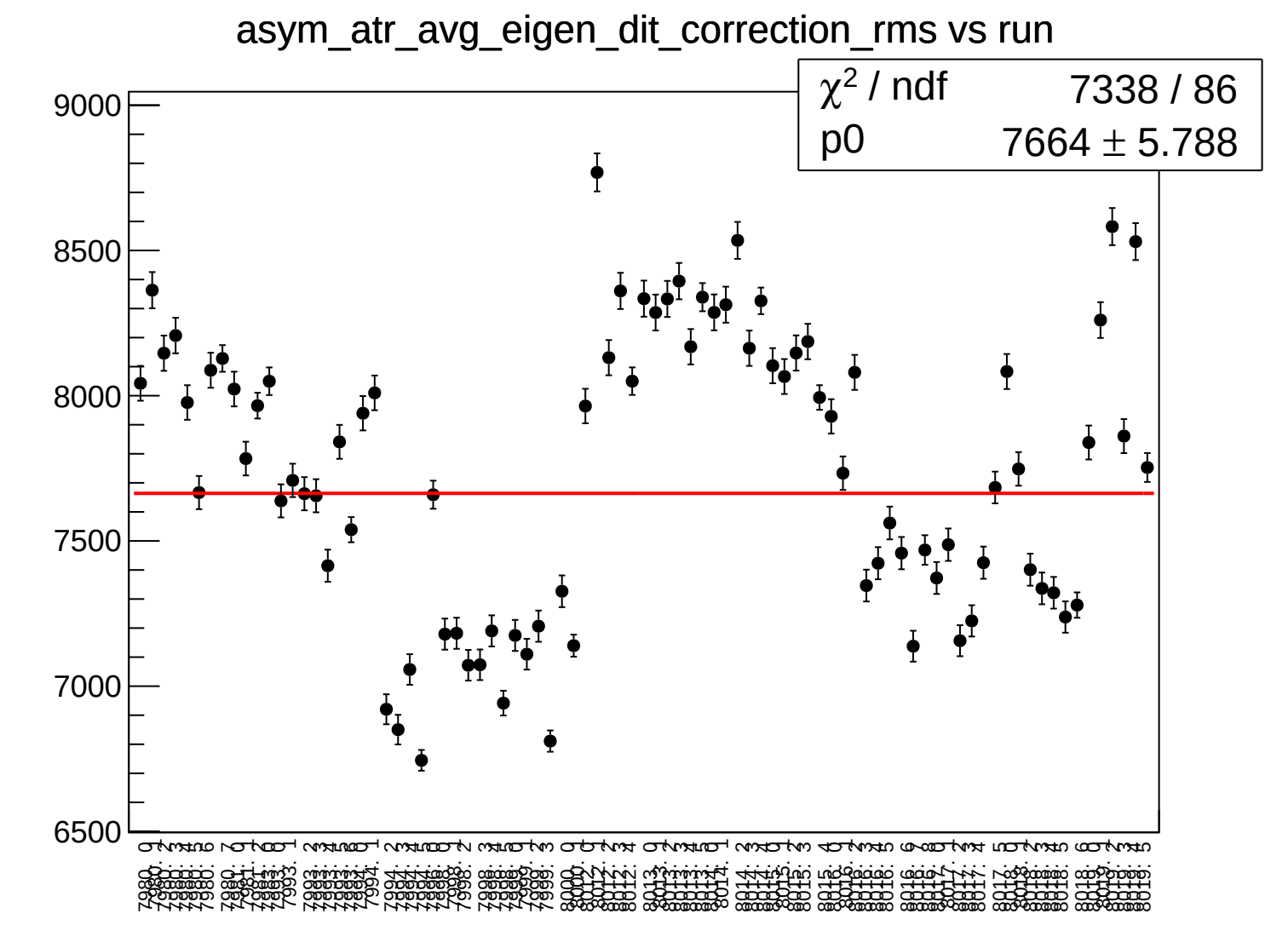

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 87.29 / 86
p0 2917 ± 2154
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 200.4
Std Dev 0
2
1
0
−1
−2

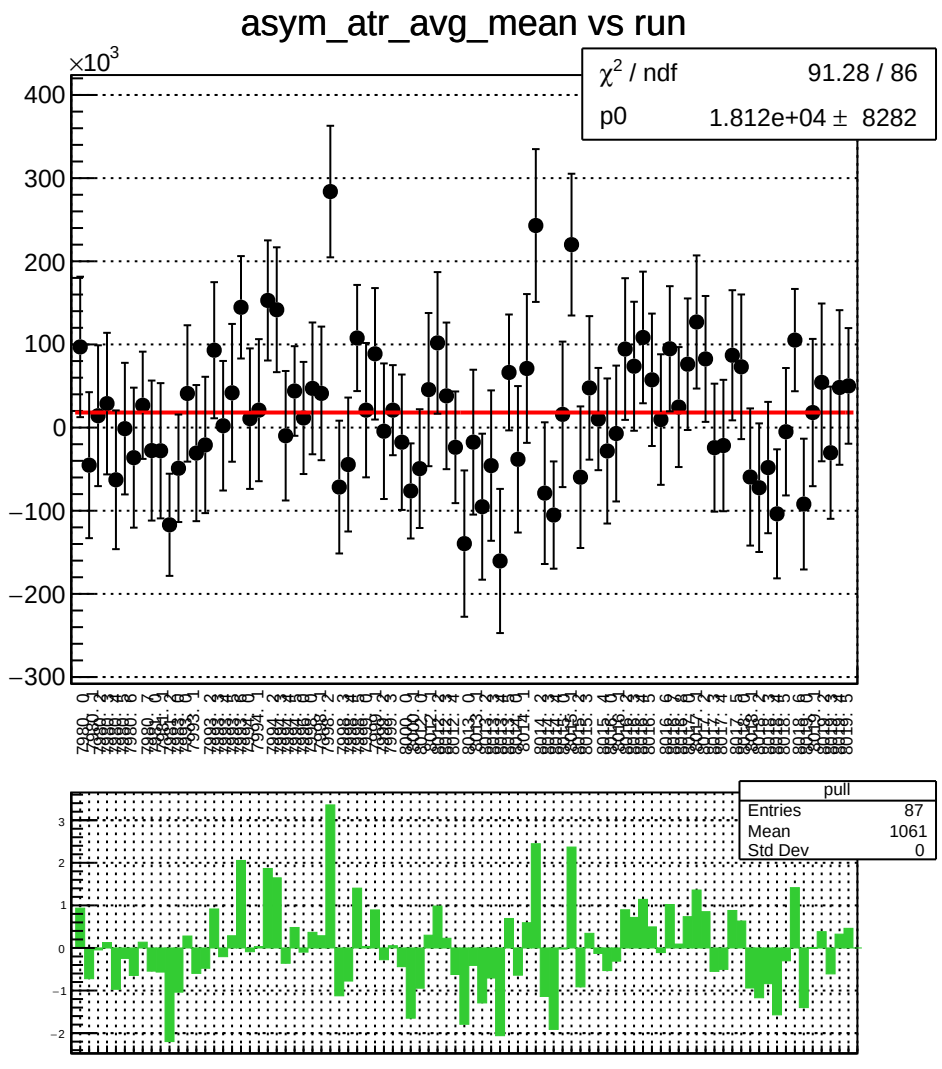

pull1D
Entries 87
Mean 0.003899
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

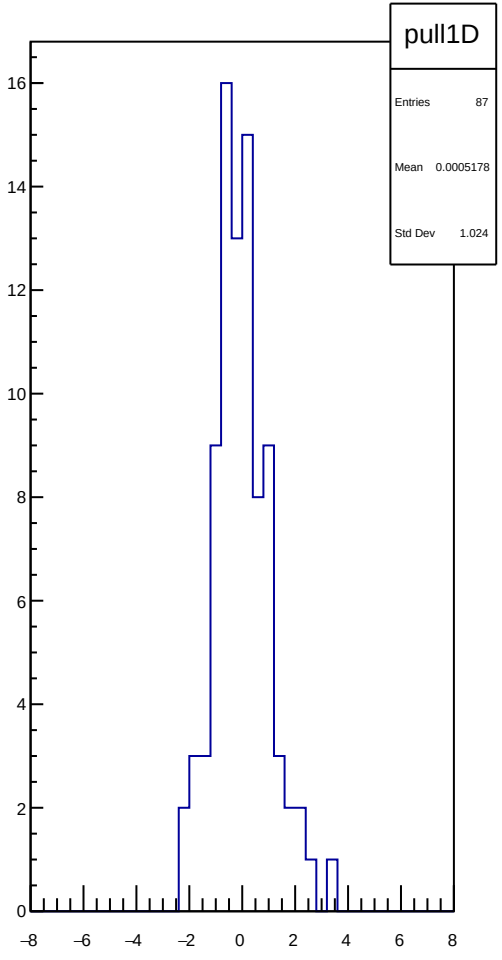

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 1150 / 86
p0 2021 ± 1.523
2400
2300
2200
2100
2000
1900

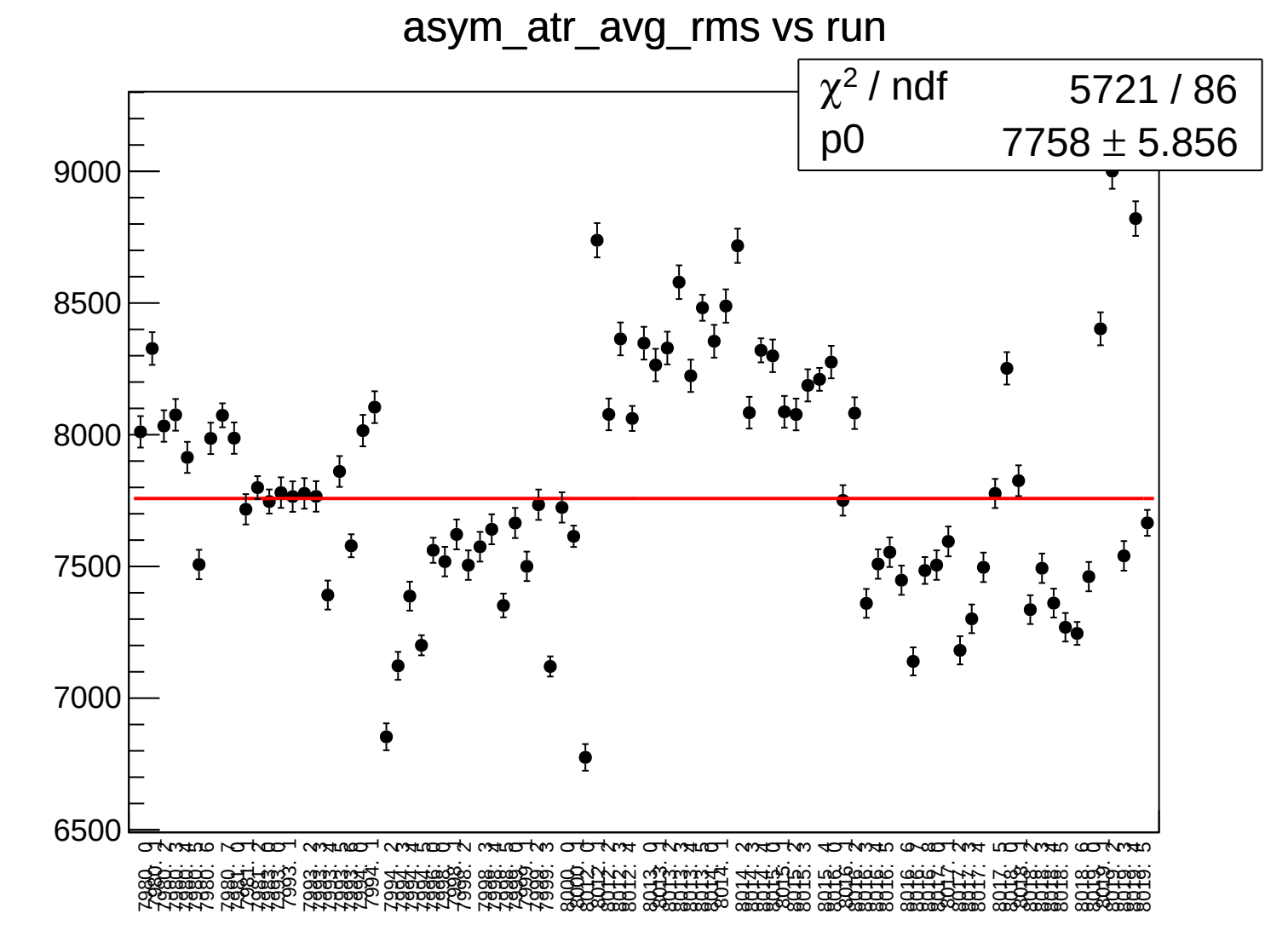

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.53 / 86
p0 −1.594e+04 ± 8185
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean −29.32
Std Dev 31.47
2
1
0
−1
−2
−3

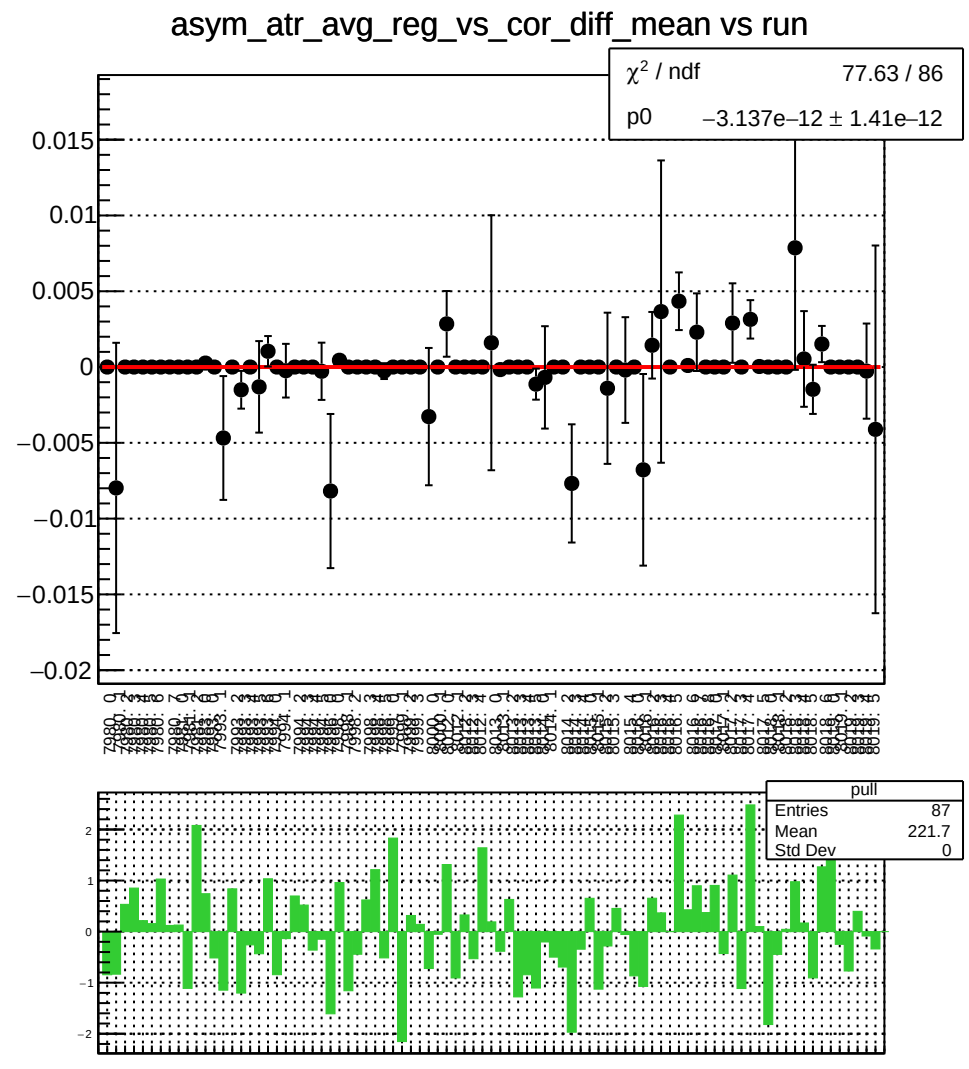

pull1D
Entries 87
Mean 0.005271
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

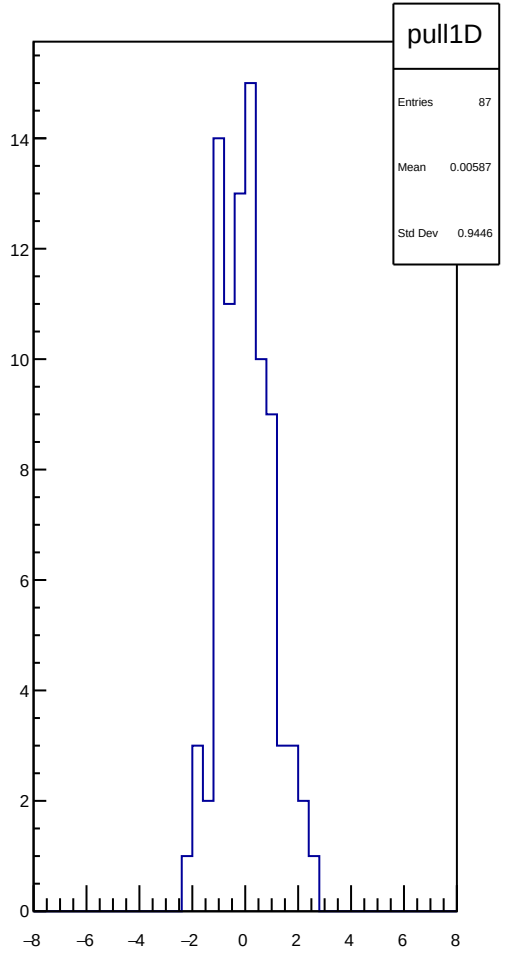

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 7338 / 86
p0 7664 ± 5.788
9000
8500
8000
7500
7000
6500

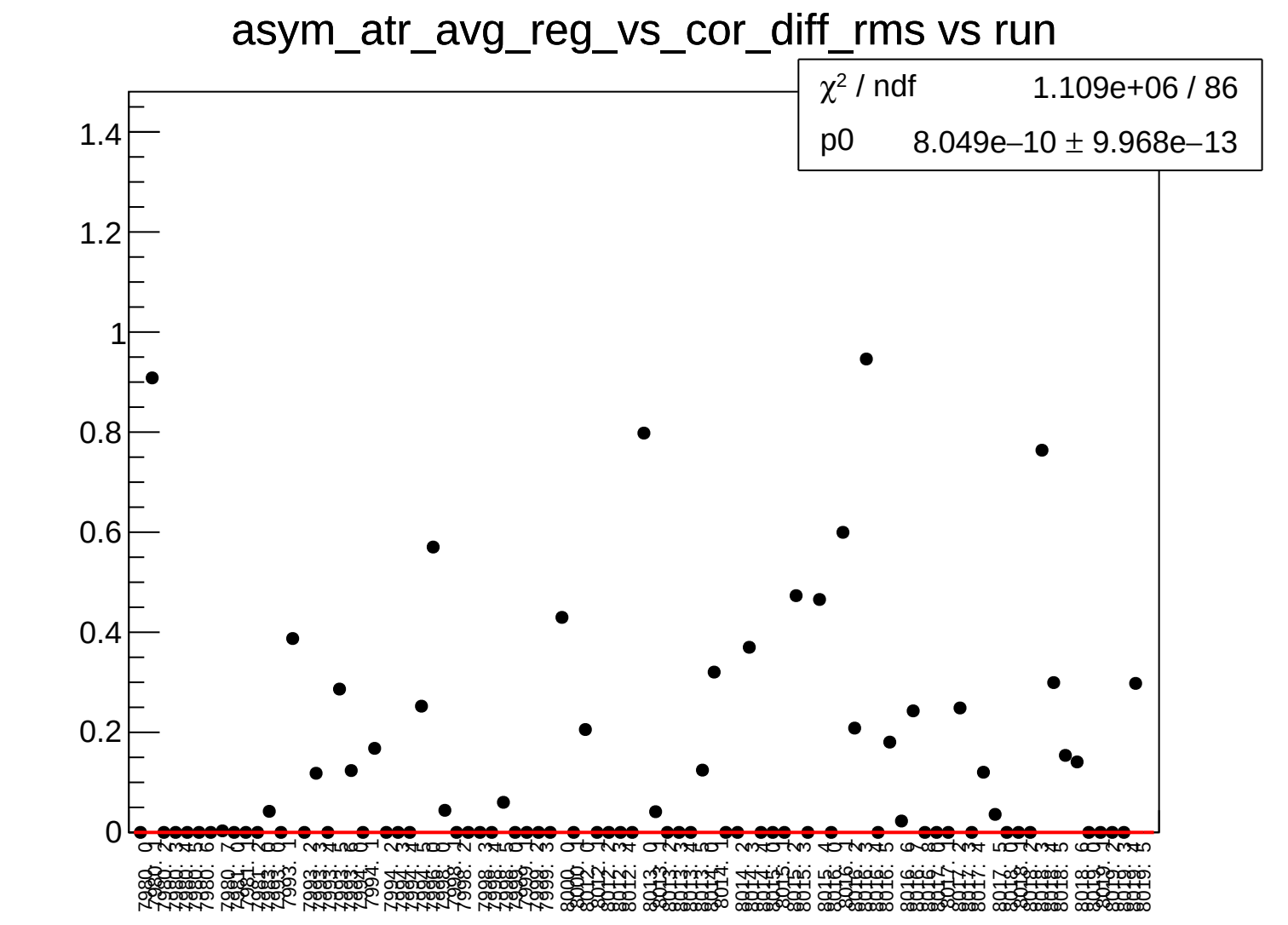

asym_atr_avg_mean vs run
×10^3
χ² / ndf 91.28 / 86
p0 1.812e+04 ± 8282
pull
Entries 87
Mean 1061
Std Dev 0

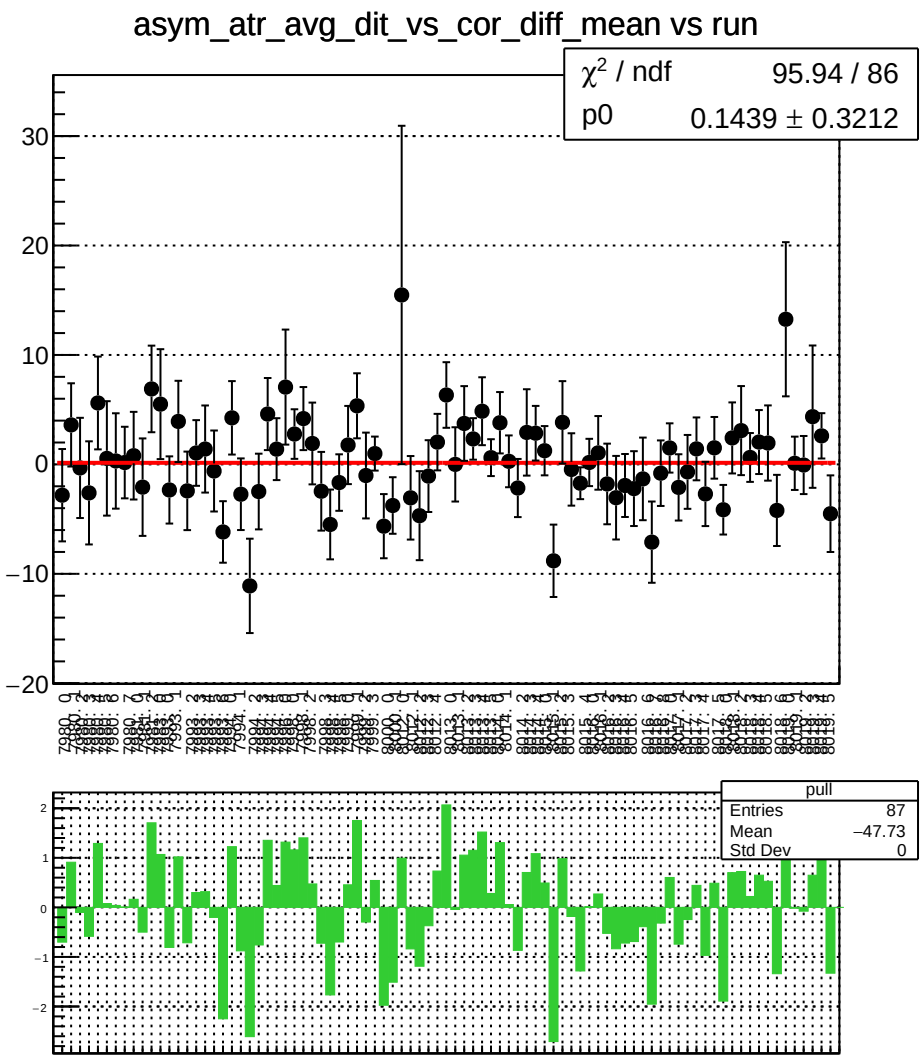

pull1D
Entries 87
Mean 0.0005178
Std Dev 1.024

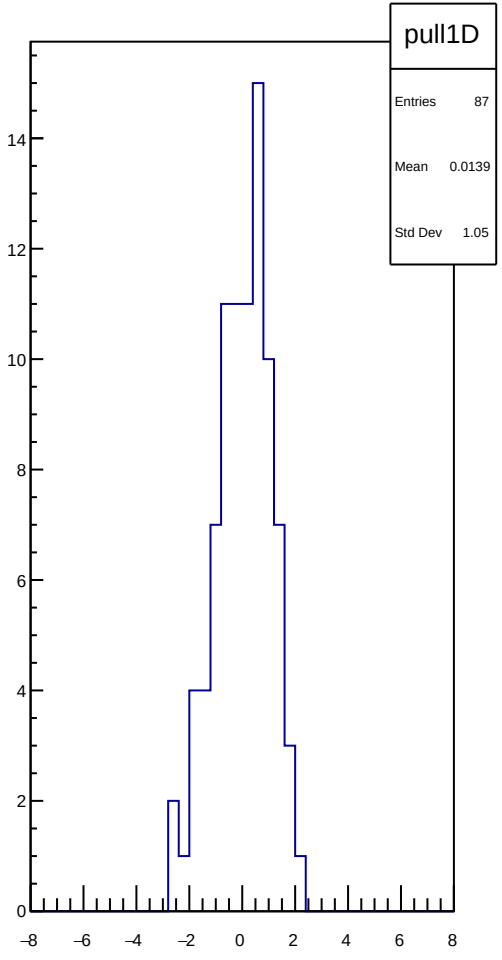

asym_atr_avg_rms vs run
χ² / ndf 5721 / 86
p0 7758 ± 5.856
9000
8500
8000
7500
7000
6500

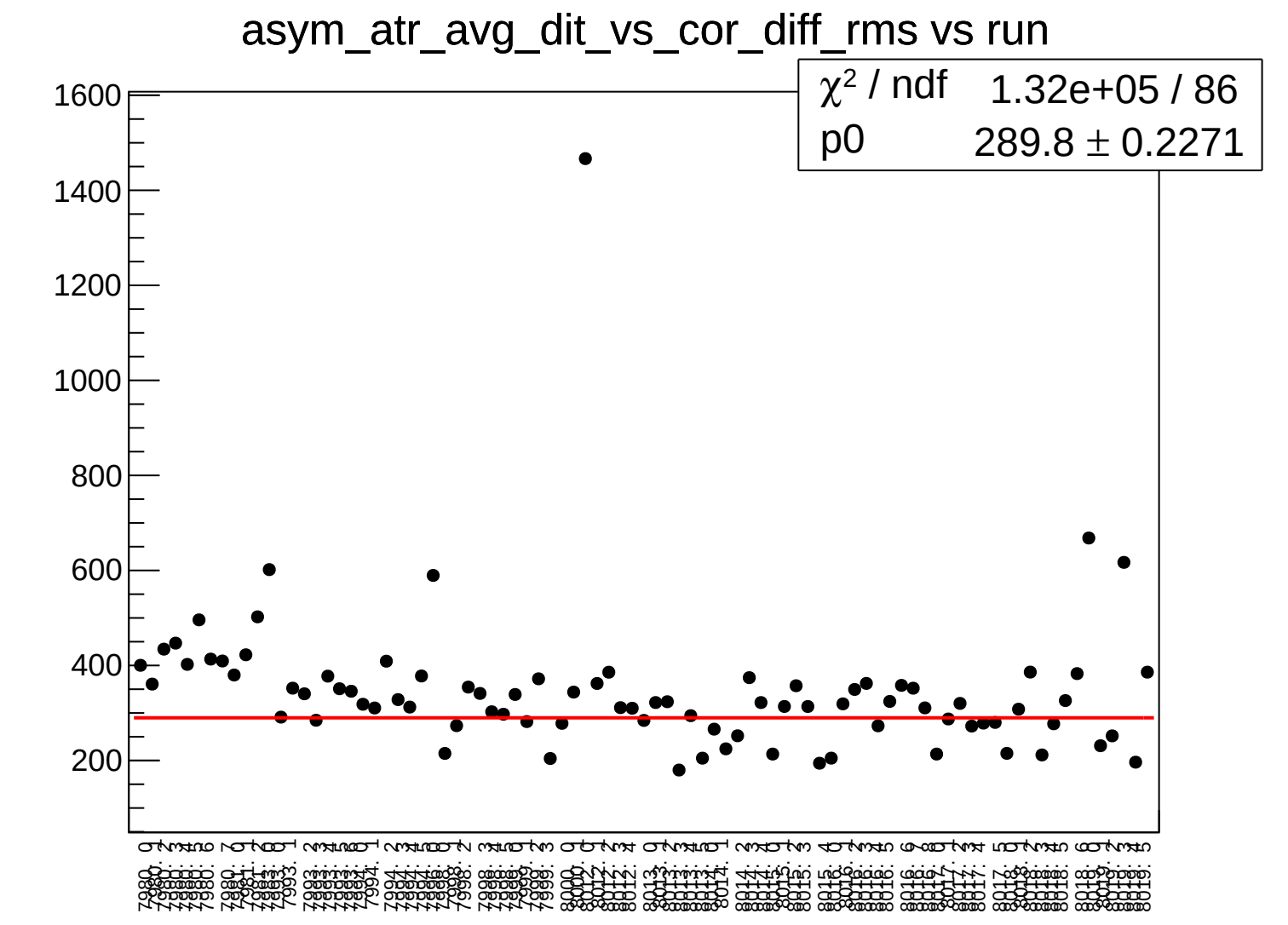

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.63 / 86
p0 −3.137e−12 ± 1.41e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 87
Mean 221.7
Std Dev 0

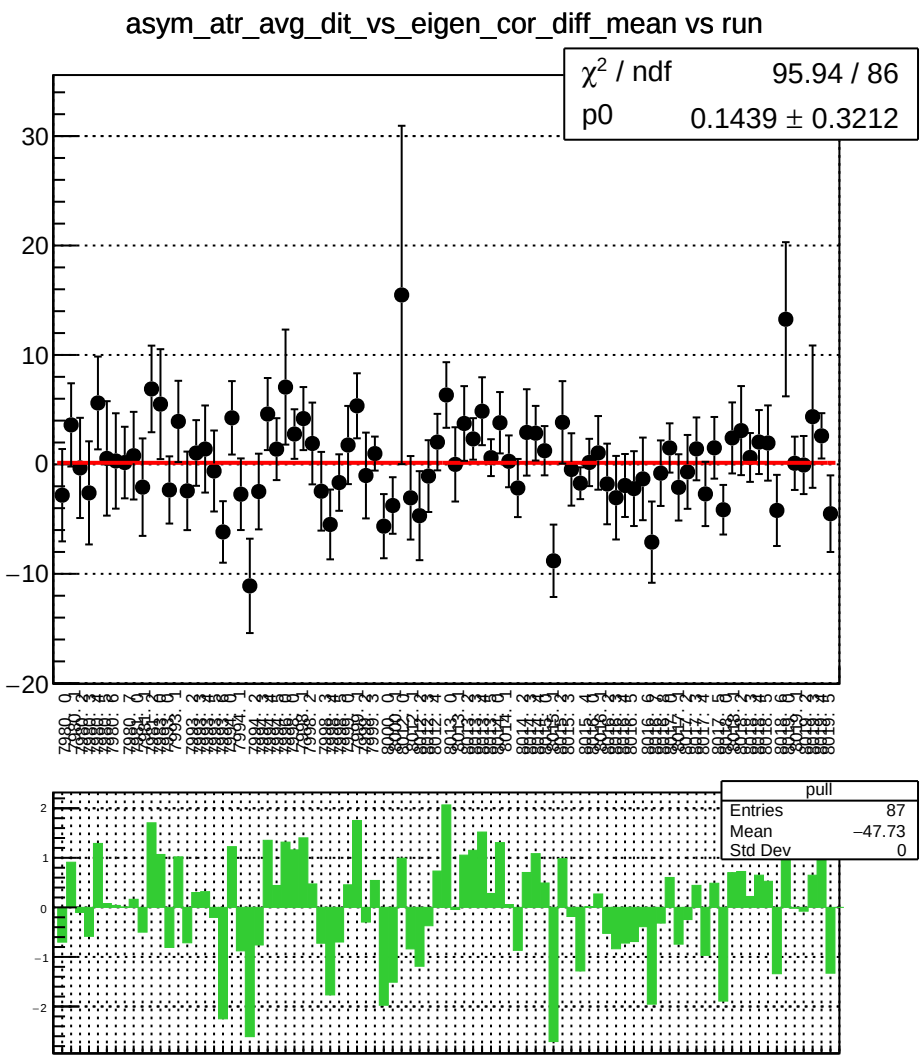

pull1D
Entries 87
Mean 0.00587
Std Dev 0.9446
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

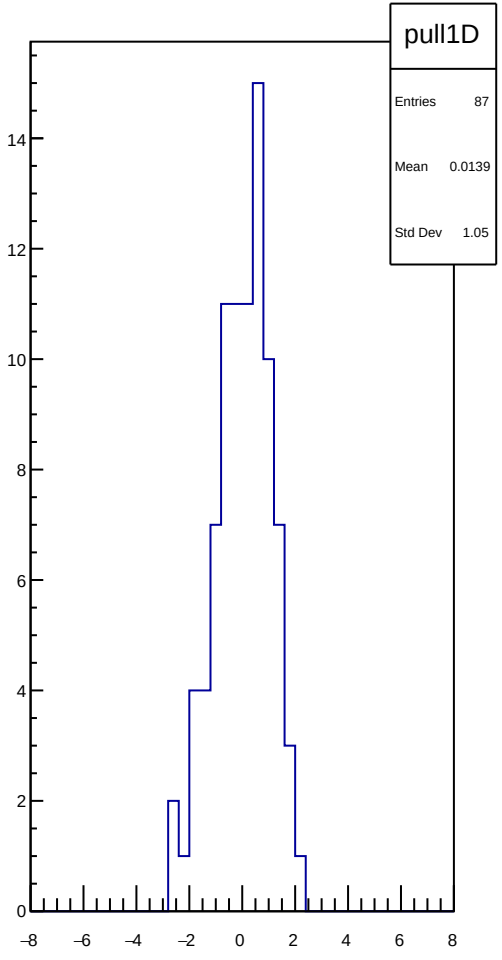

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.109e+06 / 86
p0 8.049e−10 ± 9.968e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

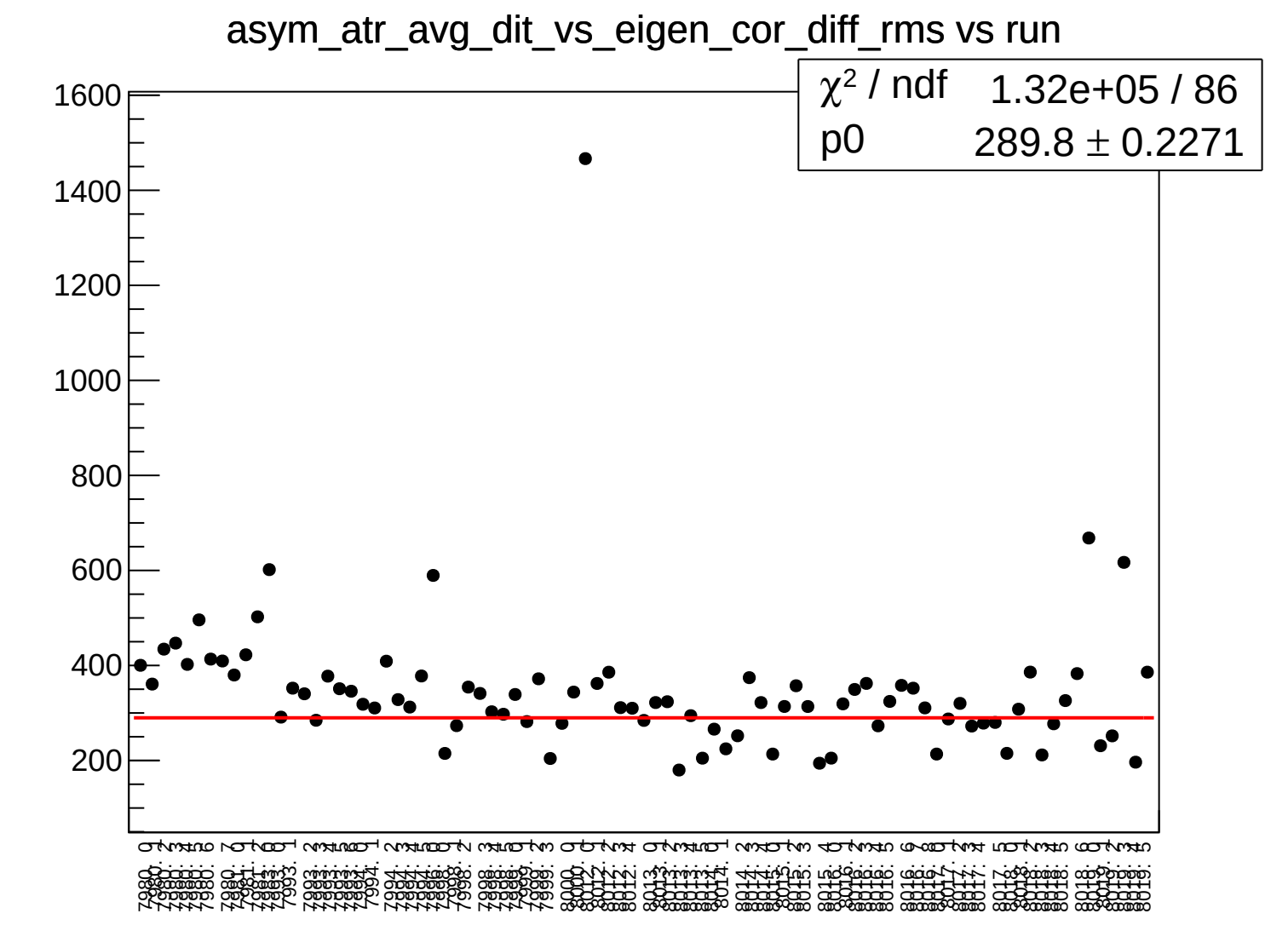

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.94 / 86
p0 0.1439 ± 0.3212
pull
Entries 87
Mean −47.73
Std Dev 0

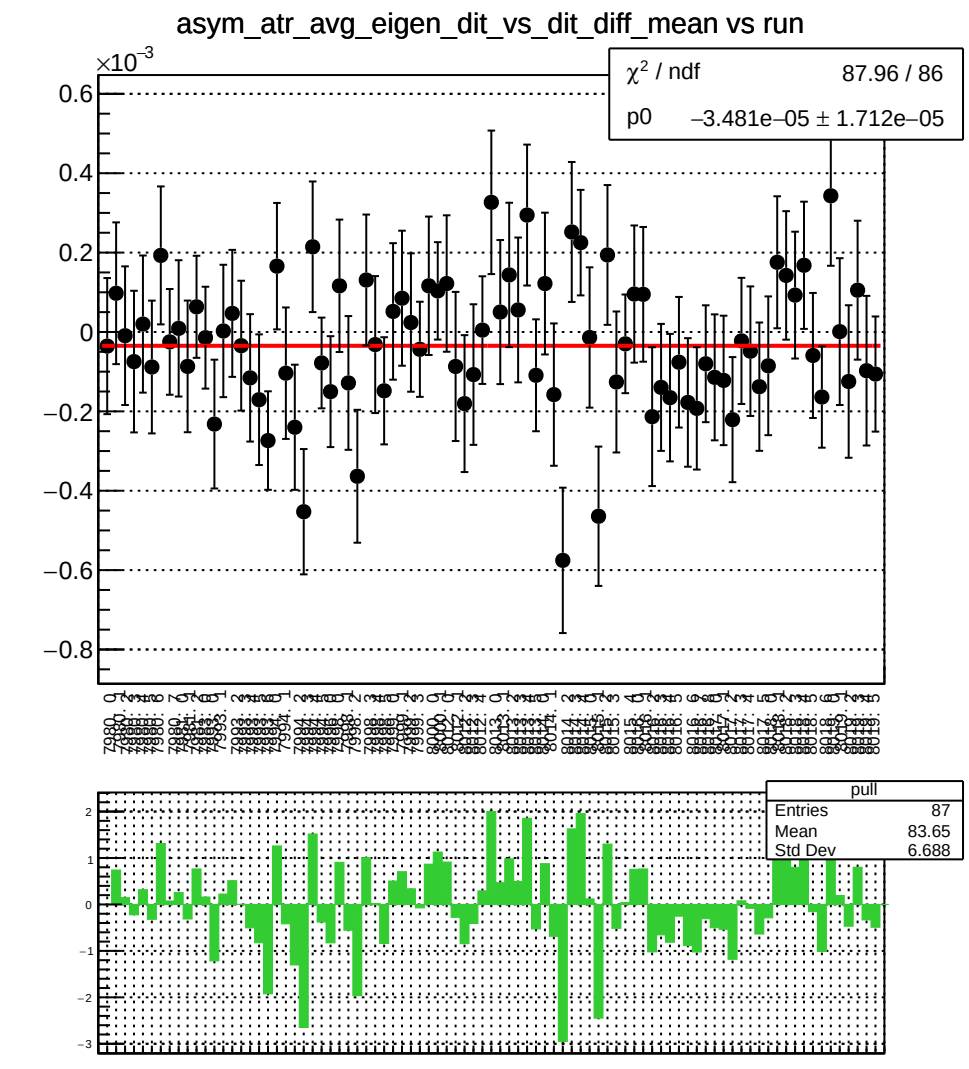

pull1D
Entries 87
Mean 0.0139
Std Dev 1.05

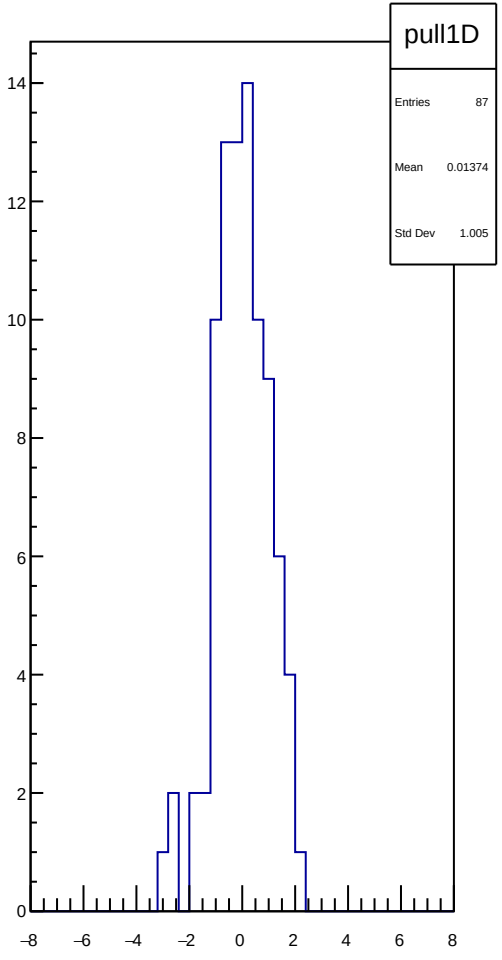

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.32e+05 / 86
p0 289.8 ± 0.2271
1600
1400
1200
1000
800
600
400
200

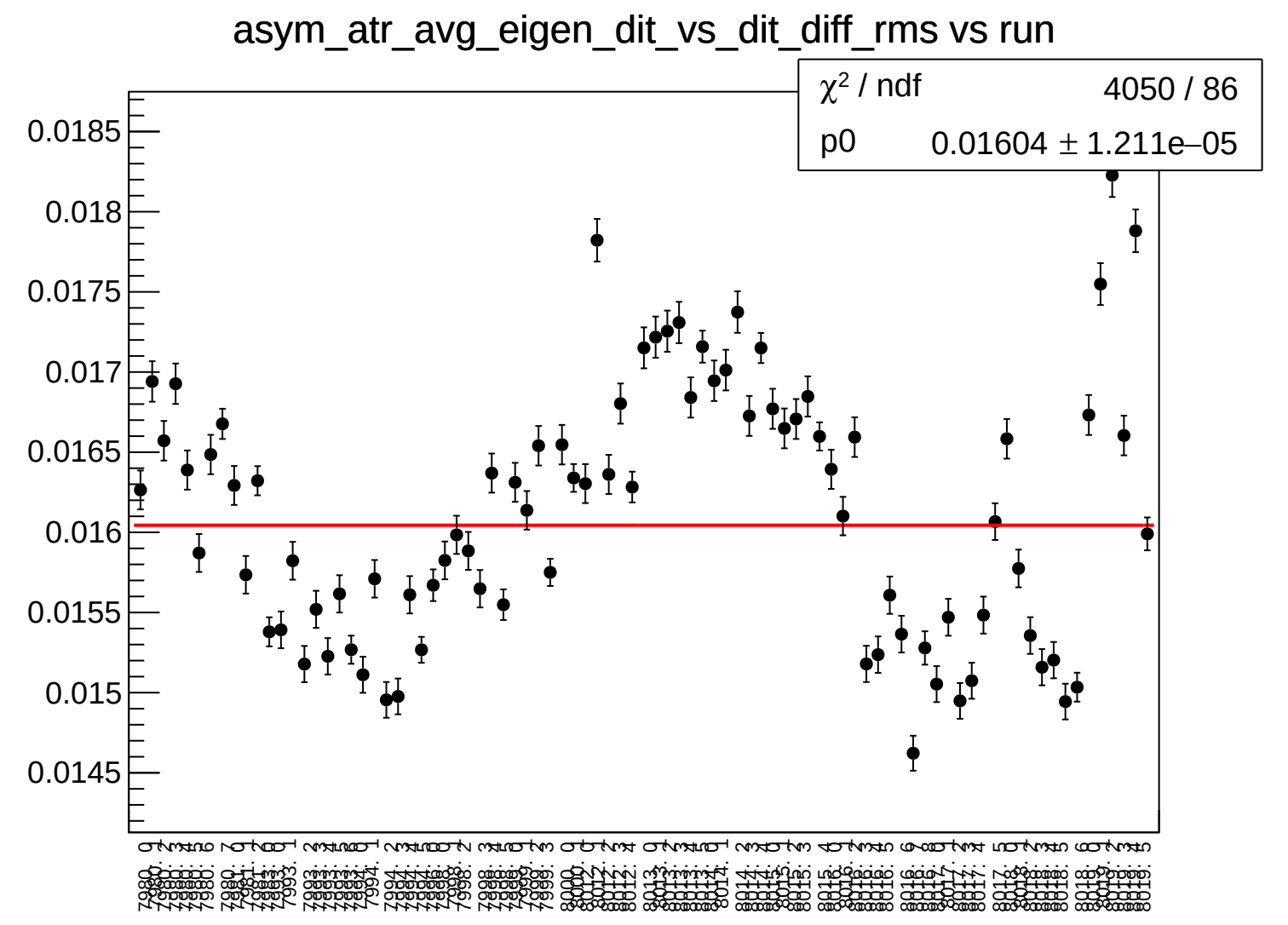

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.94 / 86
p0 0.1439 ± 0.3212
pull
Entries 87
Mean −47.73
Std Dev 0

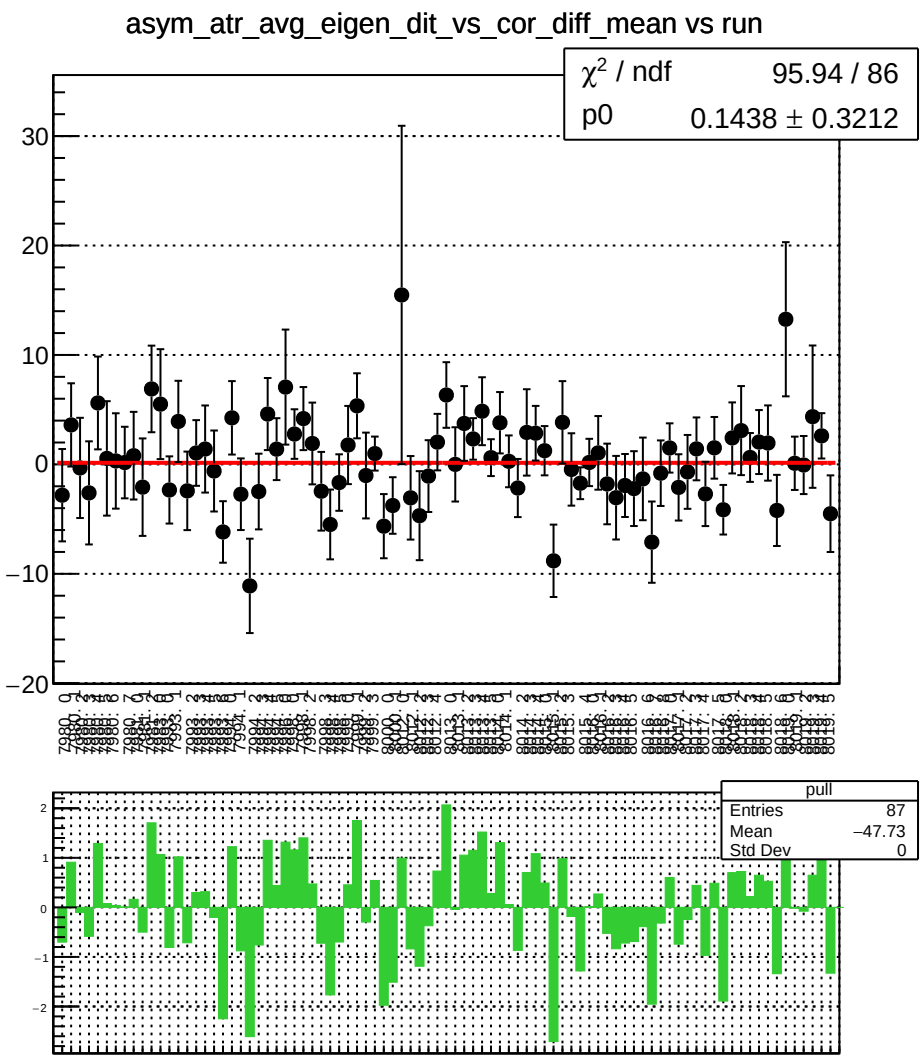

pull1D
Entries 87
Mean 0.0139
Std Dev 1.05

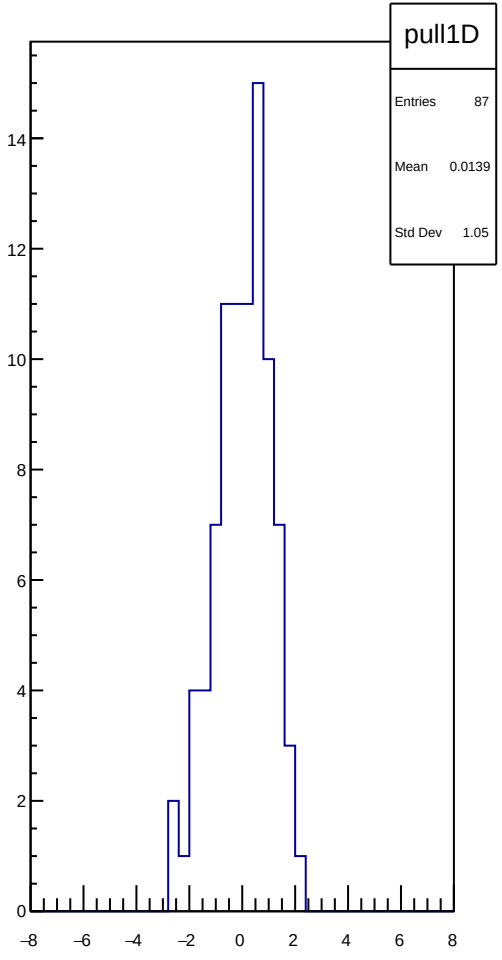

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.32e+05 / 86
p0 289.8 ± 0.2271
1600
1400
1200
1000
800
600
400
200

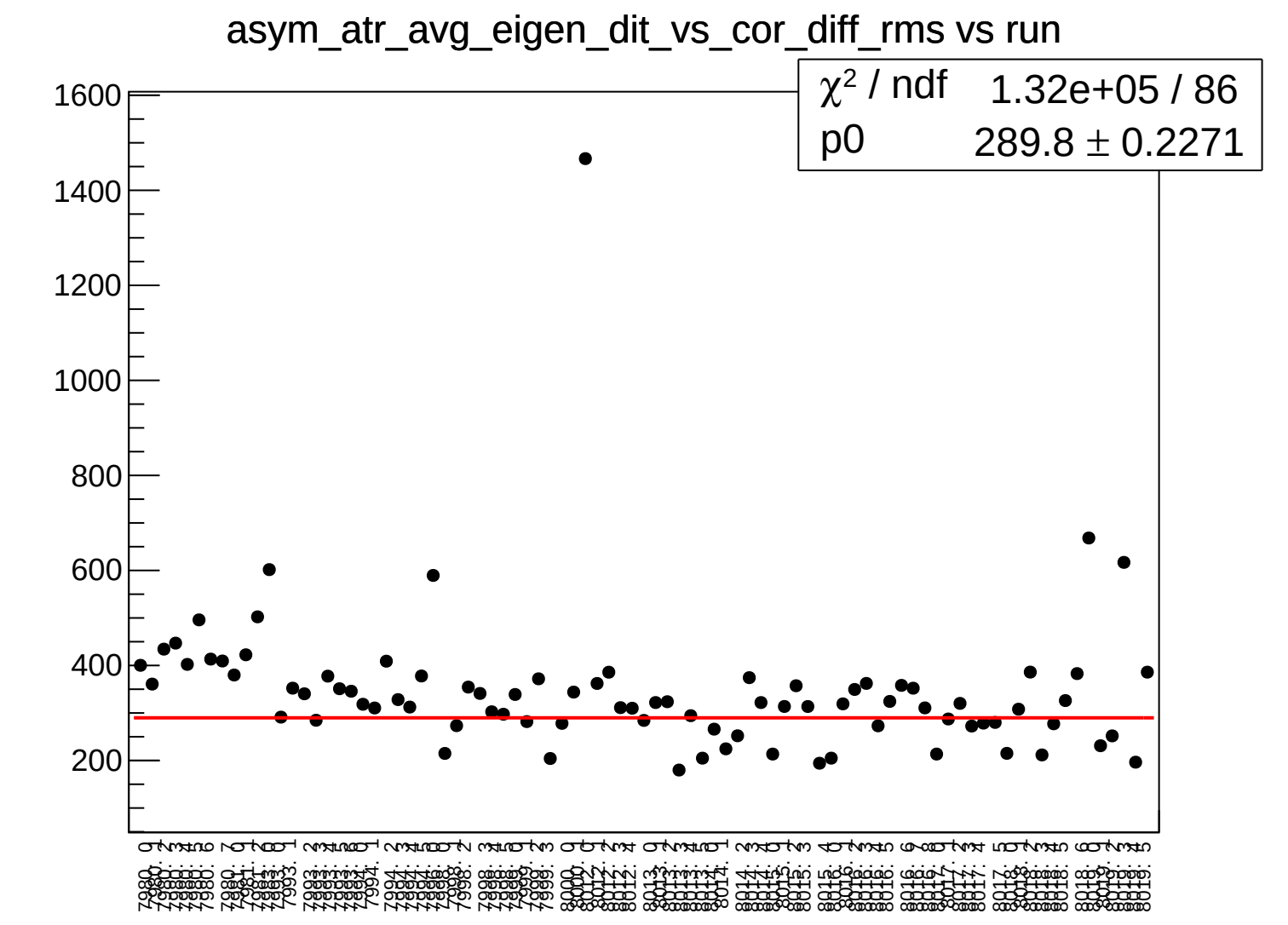

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 87.96 / 86
p0 −3.481e−05 ± 1.712e−05
pull
Entries 87
Mean 83.65
Std Dev 6.688

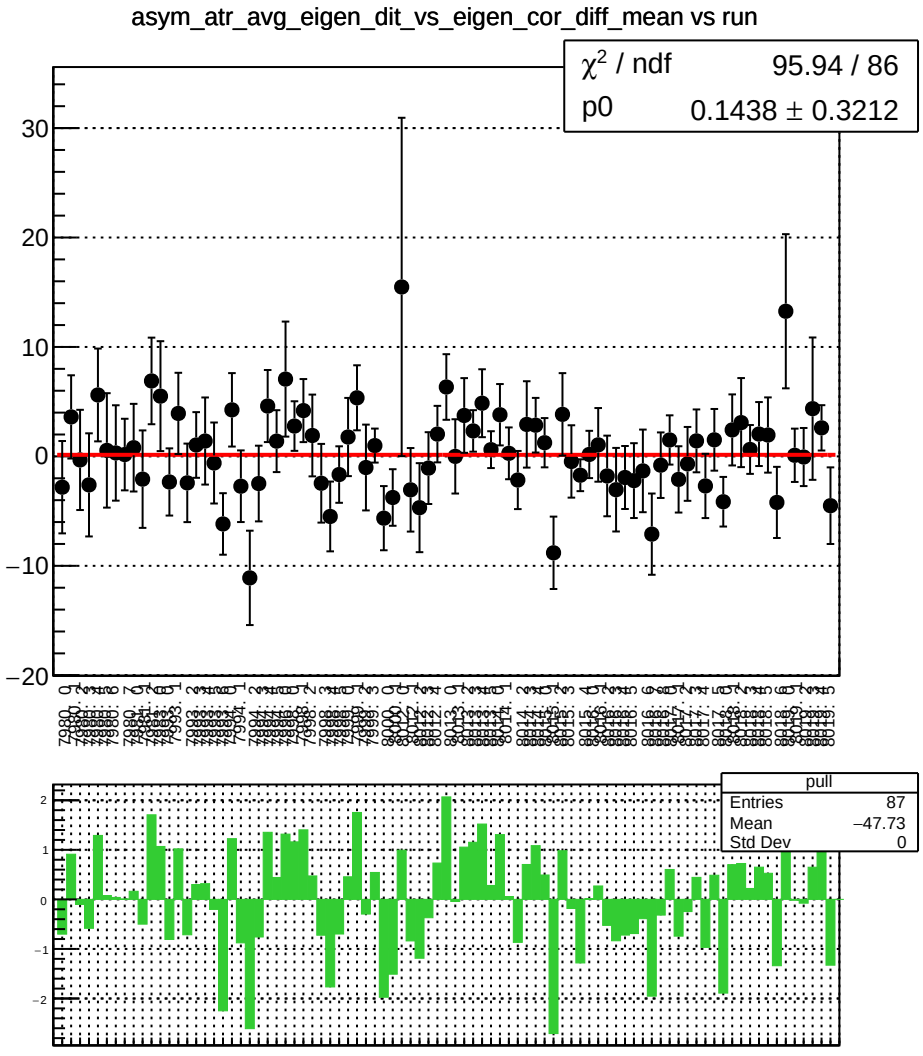

pull1D
Entries 87
Mean 0.01374
Std Dev 1.005

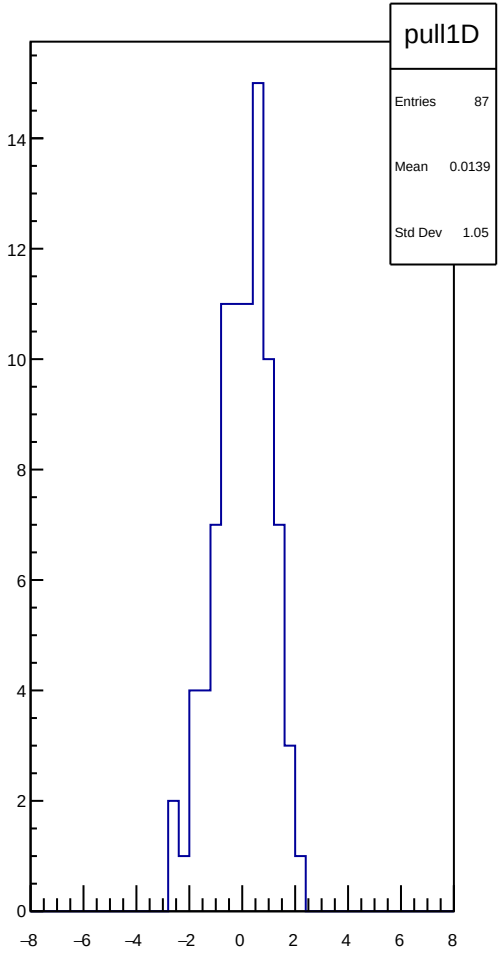

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4050 / 86
p0 0.01604 ± 1.211e−05
0.0185
0.018
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145

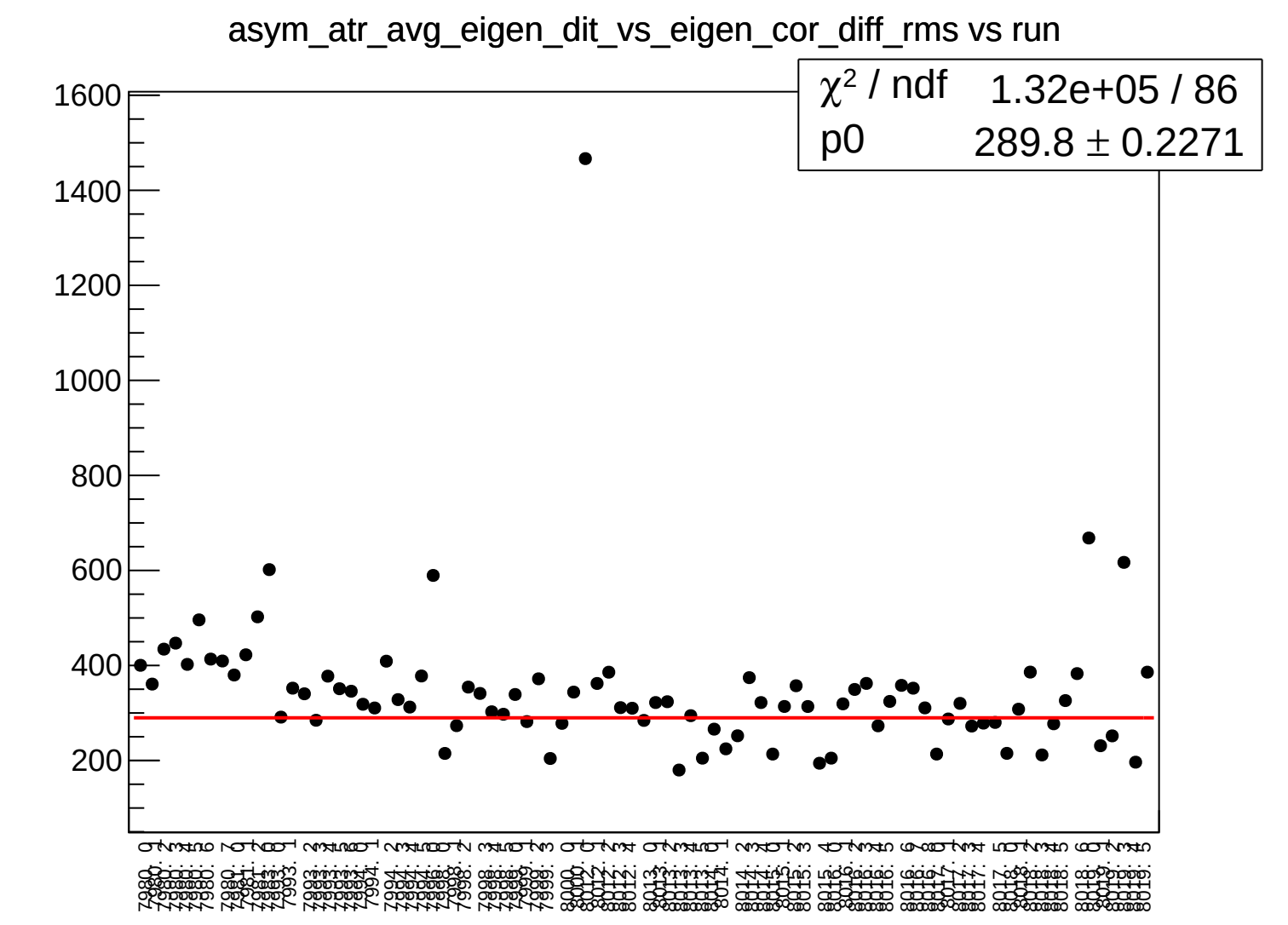

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.94 / 86
p0 0.1438 ± 0.3212
pull
Entries 87
Mean −47.73
Std Dev 0

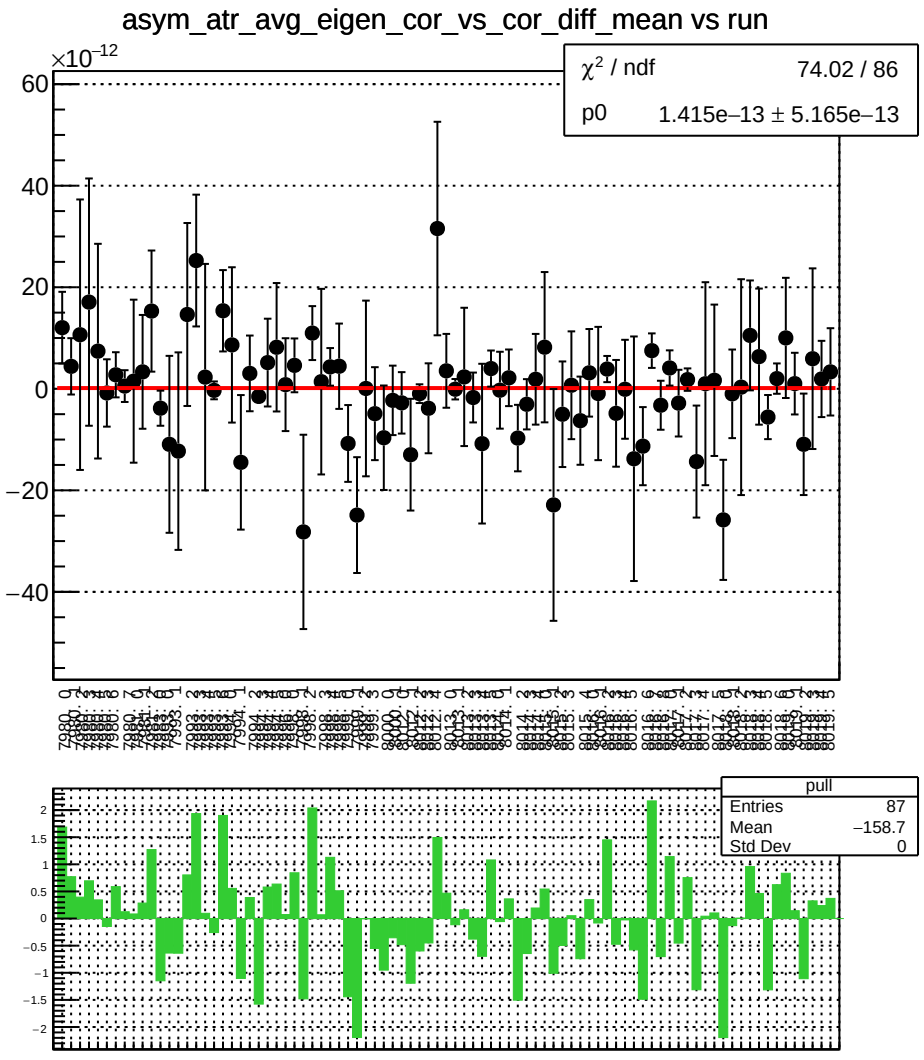

pull1D
Entries 87
Mean 0.0139
Std Dev 1.05

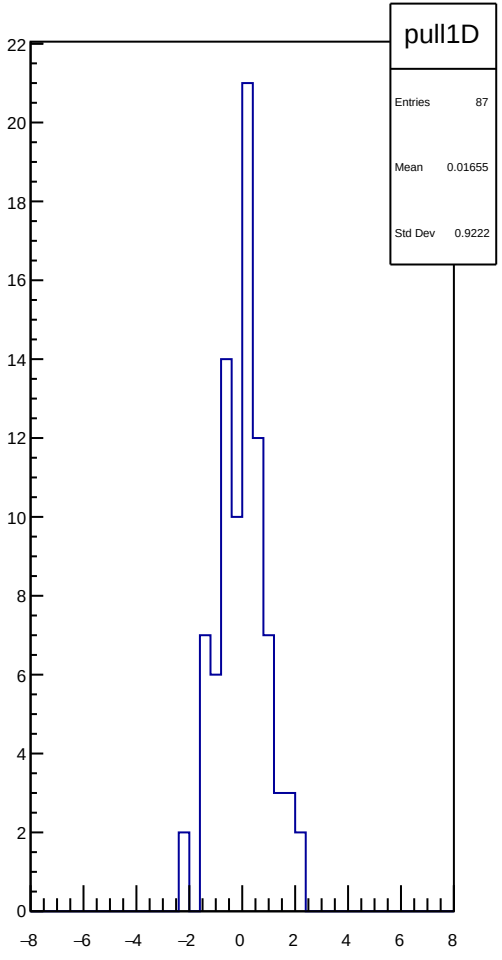

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.32e+05 / 86
p0 289.8 ± 0.2271
1600
1400
1200
1000
800
600
400
200

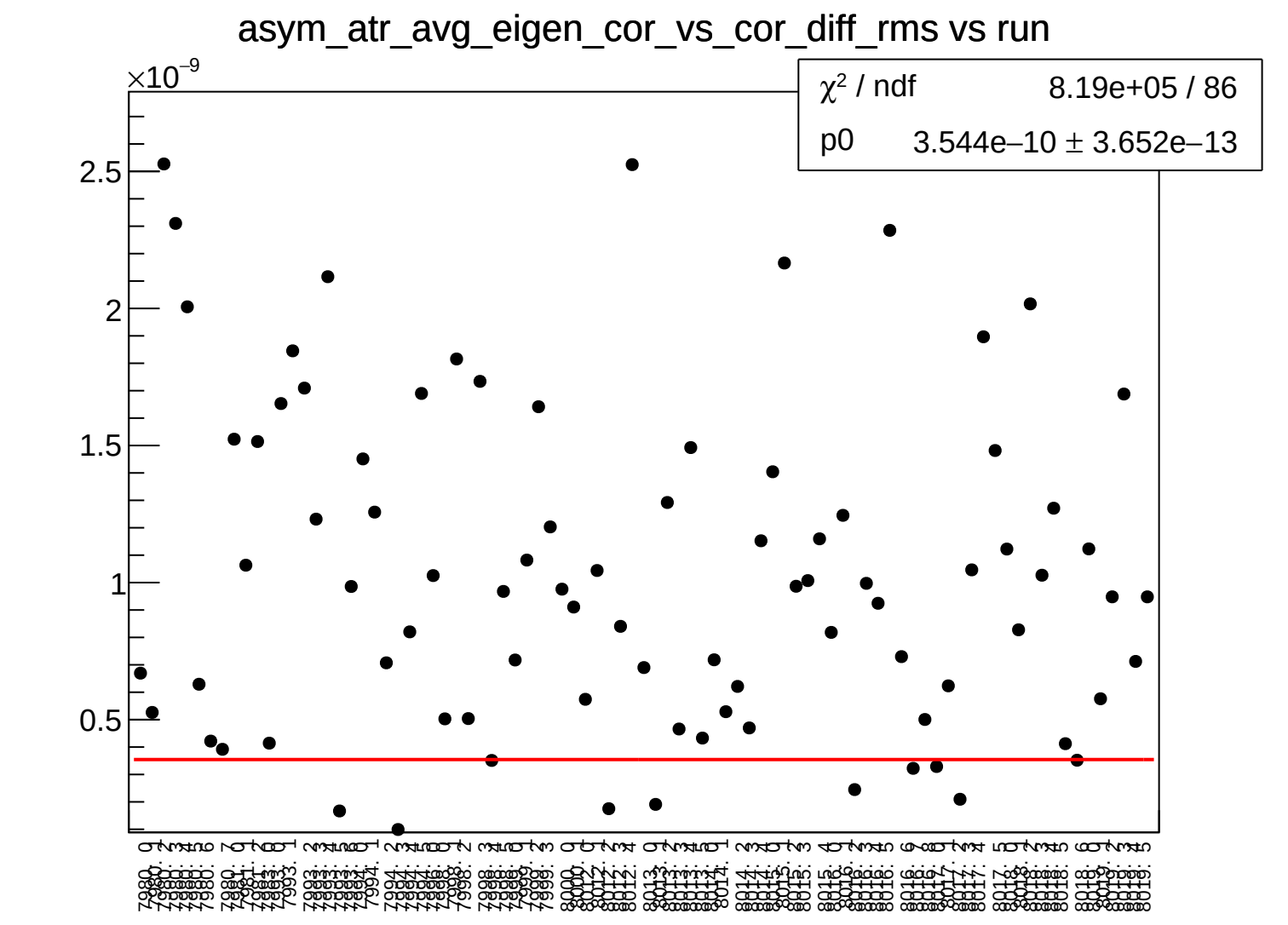

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.94 / 86
p0 0.1438 ± 0.3212
pull
Entries 87
Mean −47.73
Std Dev 0

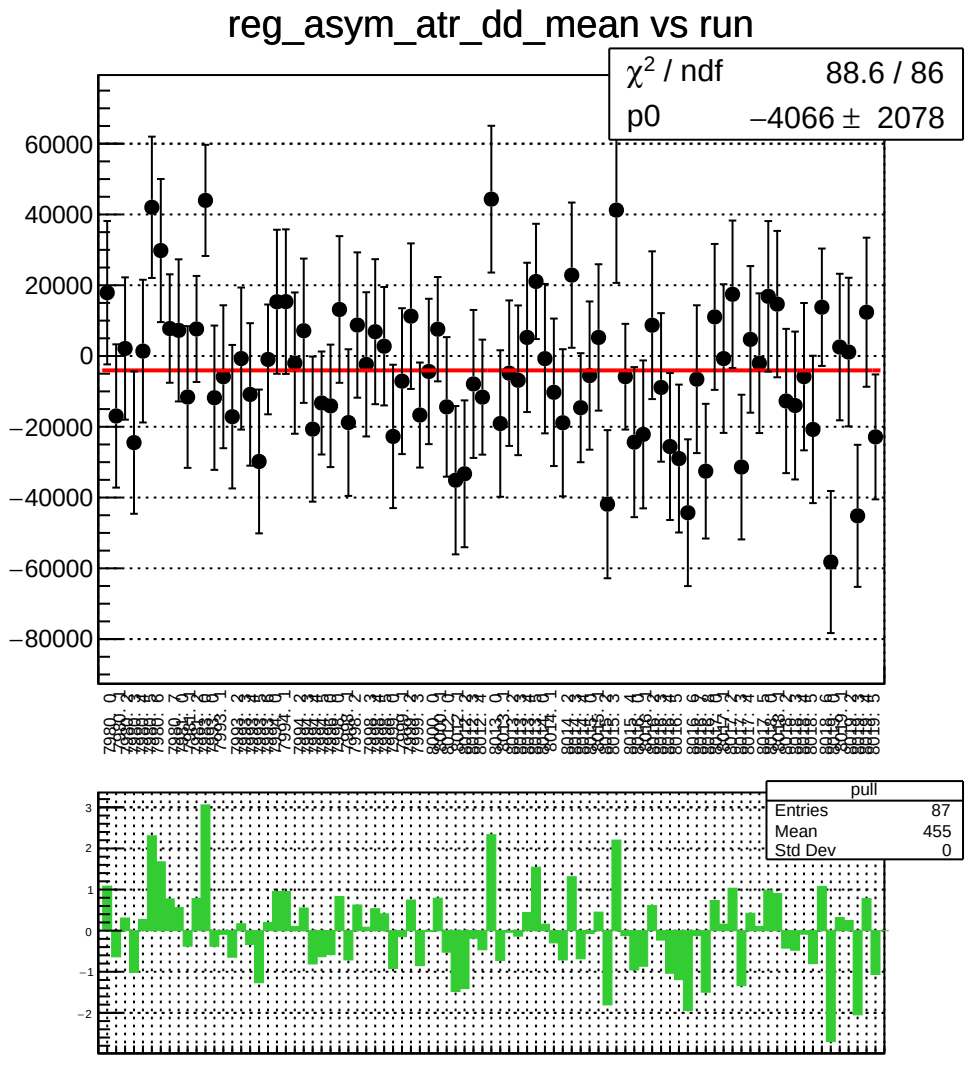

pull1D
Entries 87
Mean 0.0139
Std Dev 1.05

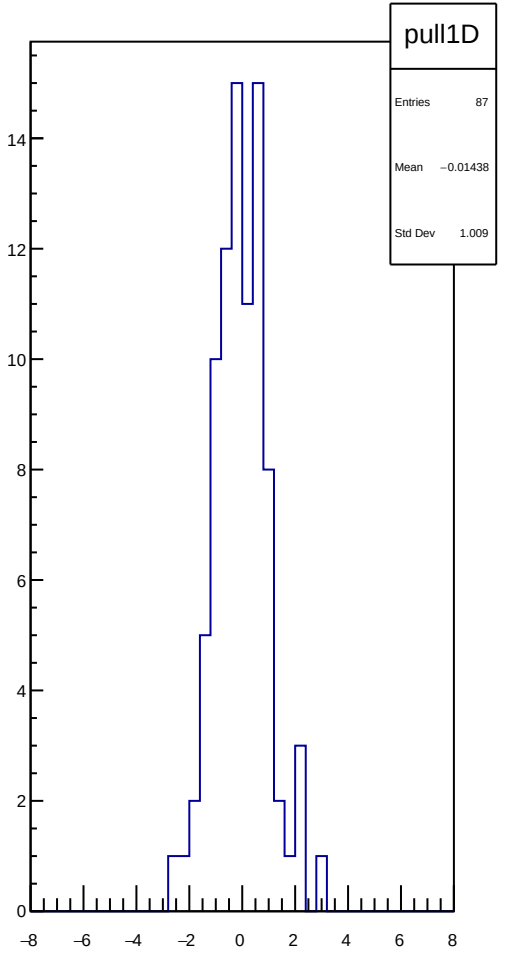

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.32e+05 / 86
p0 289.8 ± 0.2271
1600
1400
1200
1000
800
600
400
200

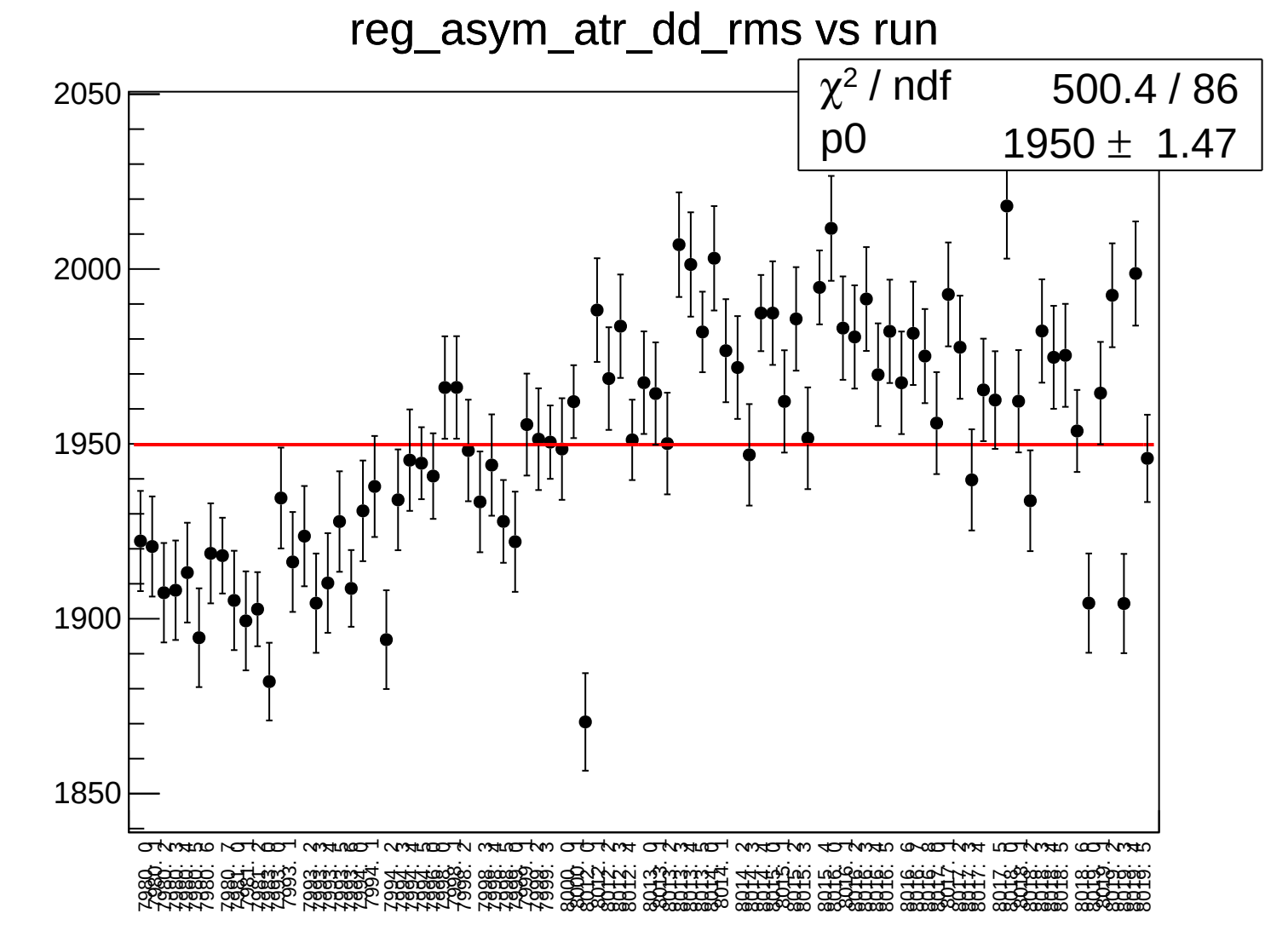

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.02 / 86
p0 1.415e−13 ± 5.165e−13
pull
Entries 87
Mean −158.7
Std Dev 0

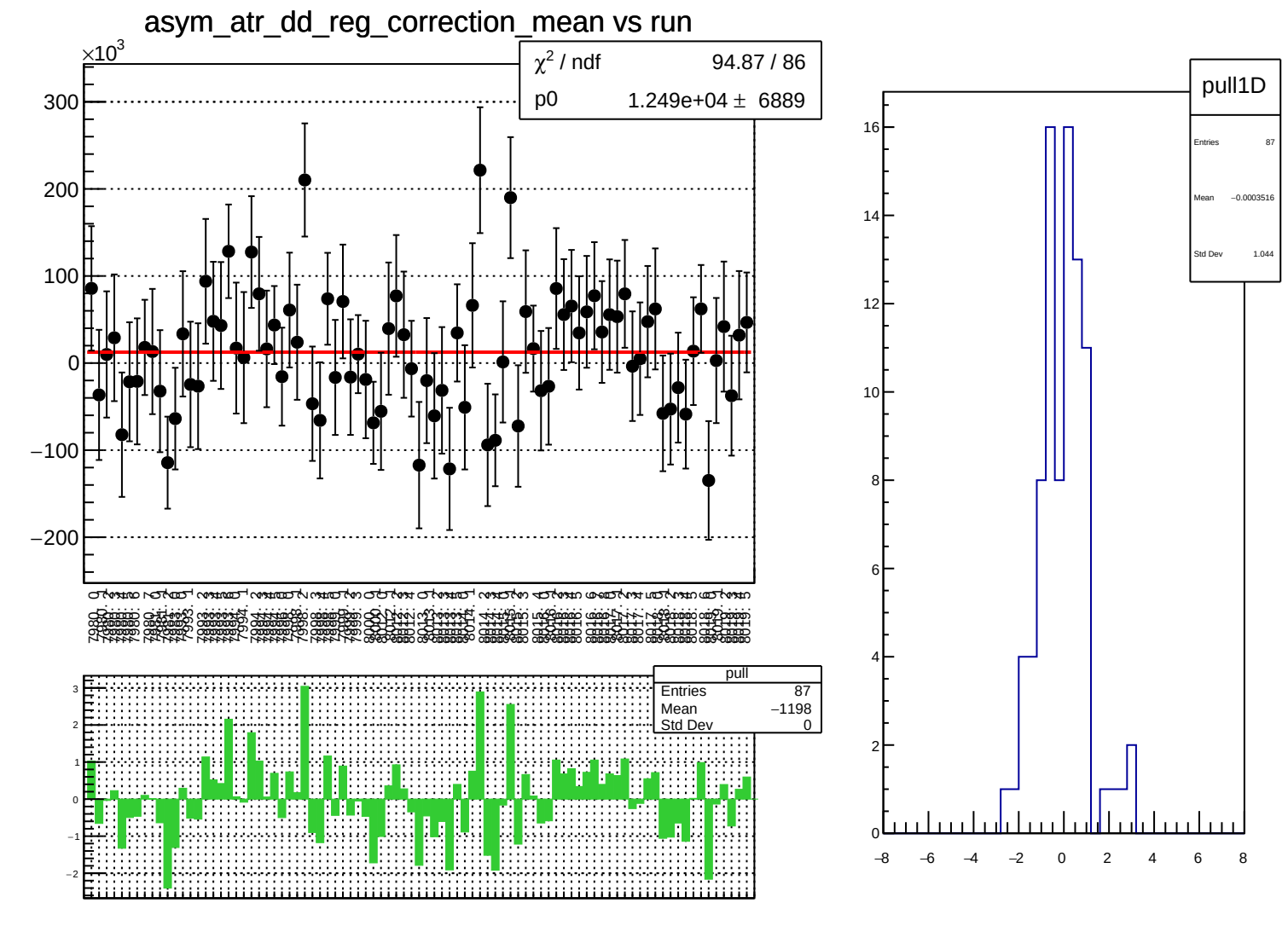

pull1D
Entries 87
Mean 0.01655
Std Dev 0.9222

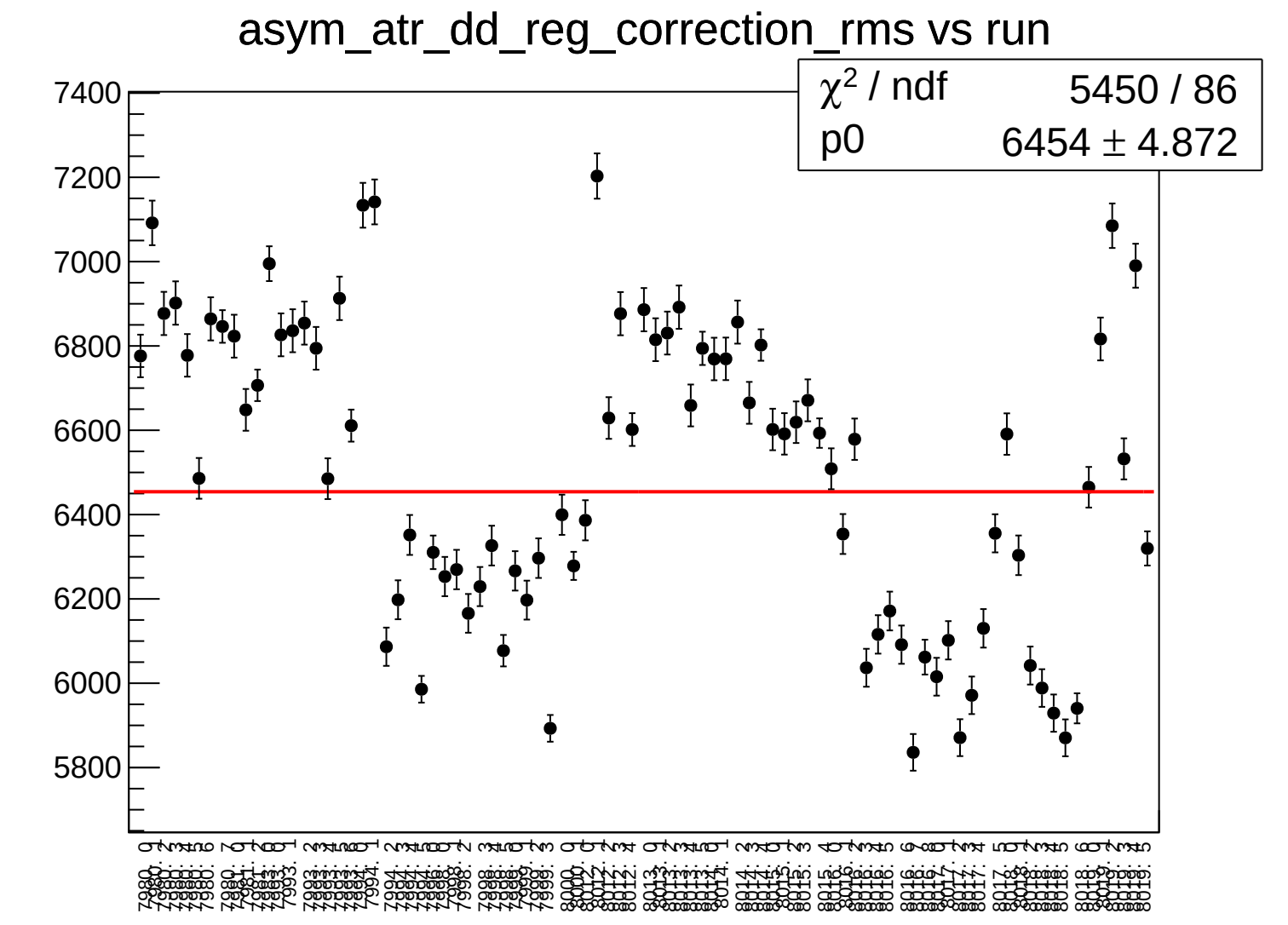

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.19e+05 / 86
p0 3.544e−10 ± 3.652e−13
2.5
2
1.5
1
0.5

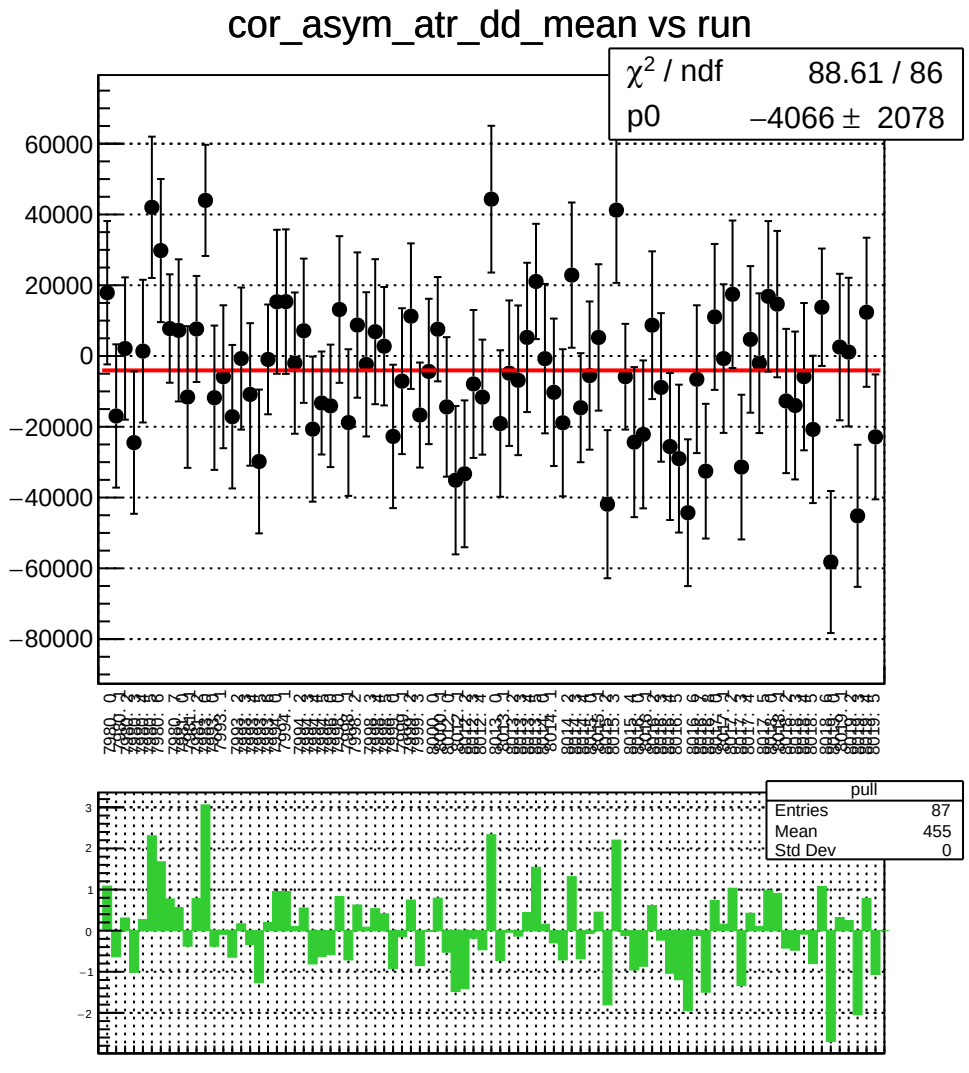

reg_asym_atr_dd_mean vs run
χ² / ndf 88.6 / 86
p0 −4066 ± 2078
pull
Entries 87
Mean 455
Std Dev 0

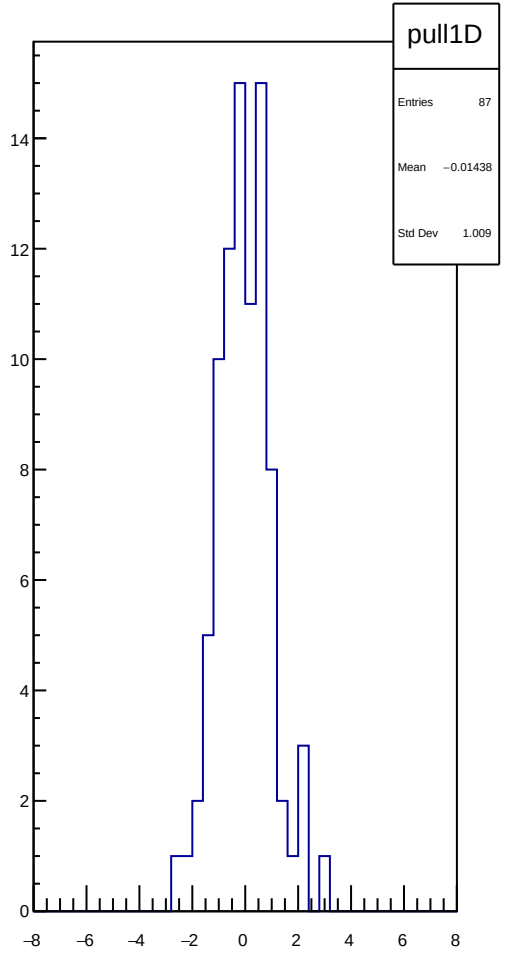

pull1D
Entries 87
Mean −0.01438
Std Dev 1.009

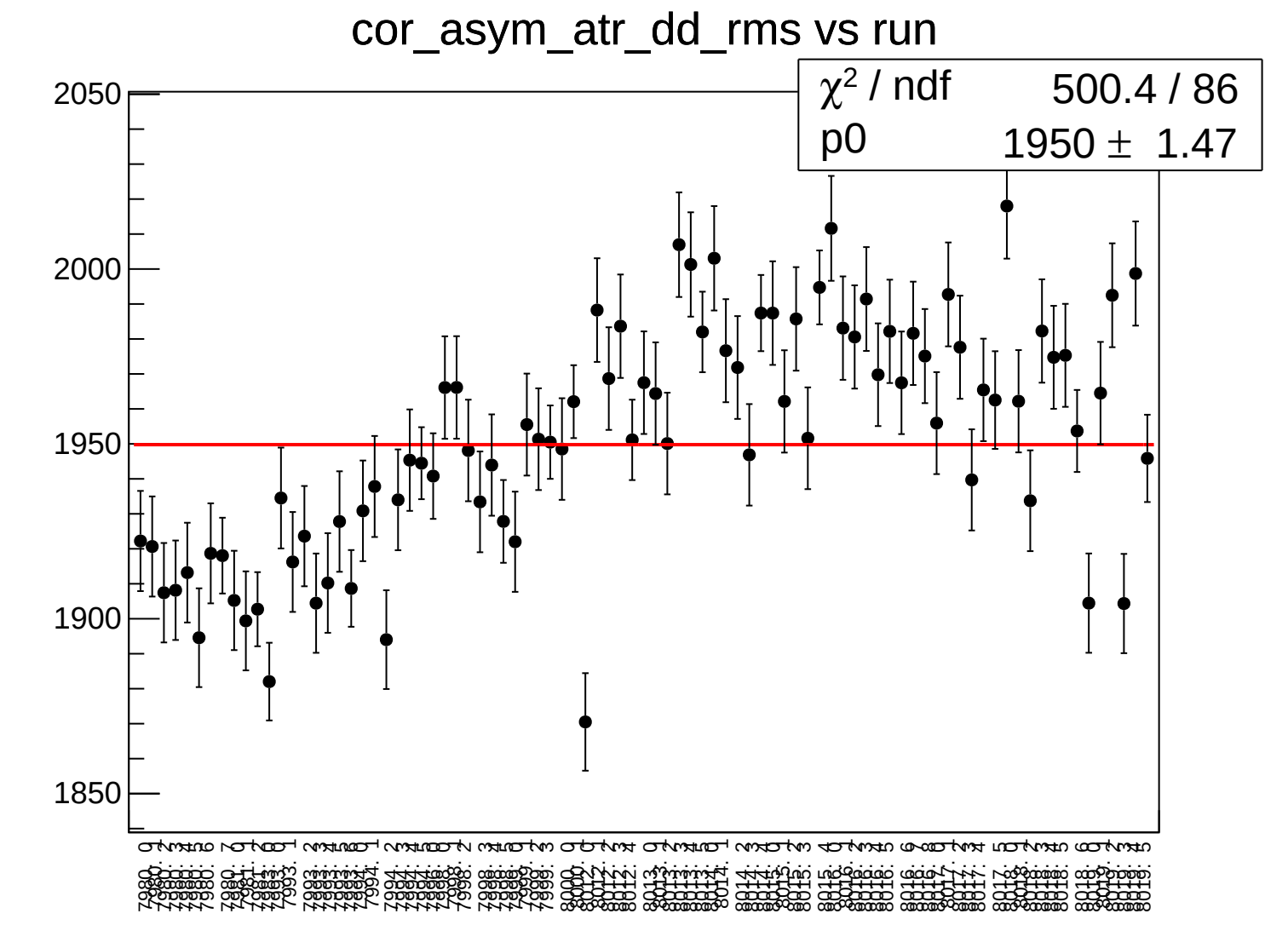

reg_asym_atr_dd_rms vs run
χ² / ndf 500.4 / 86
p0 1950 ± 1.47
2050
2000
1950
1900
1850

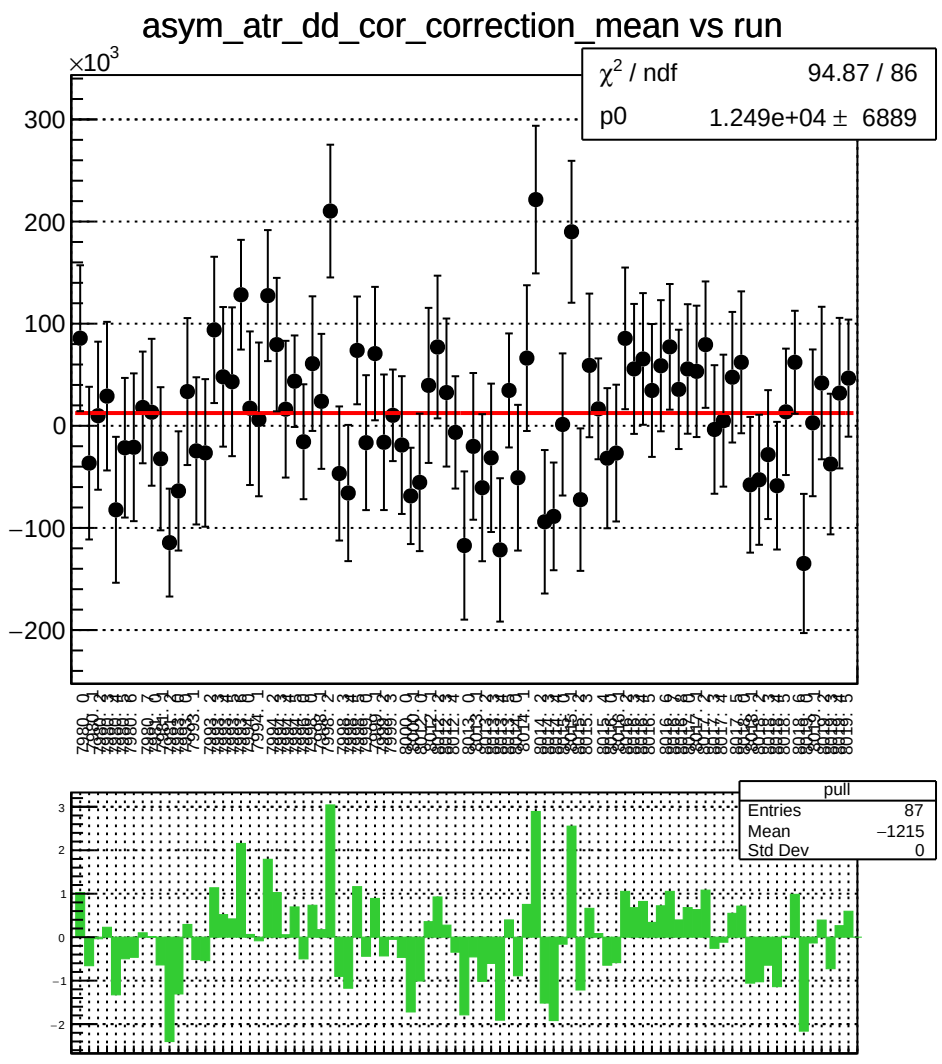

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.87 / 86
p0 1.249e+04 ± 6889
300
200
100
0
−100
−200
pull
Entries 87
Mean −1198
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.0003516
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

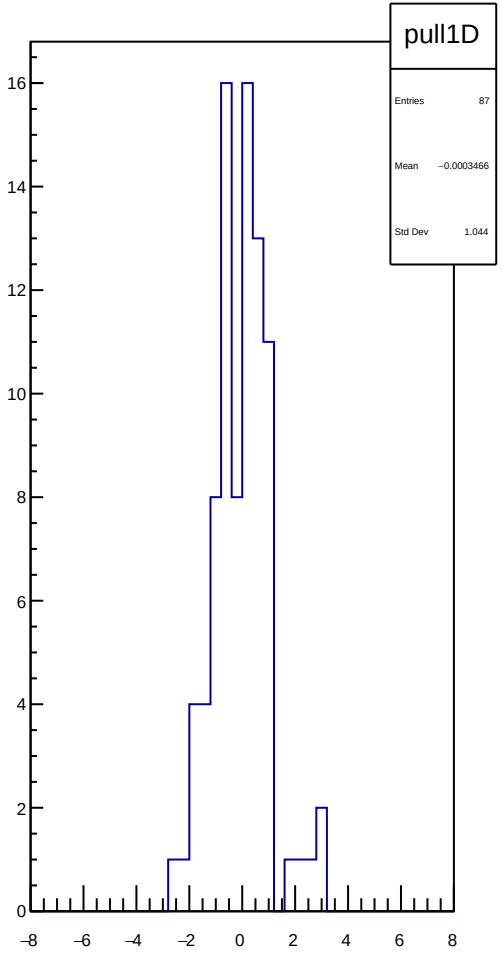

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 5450 / 86
p0 6454 ± 4.872
7400
7200
7000
6800
6600
6400
6200
6000
5800

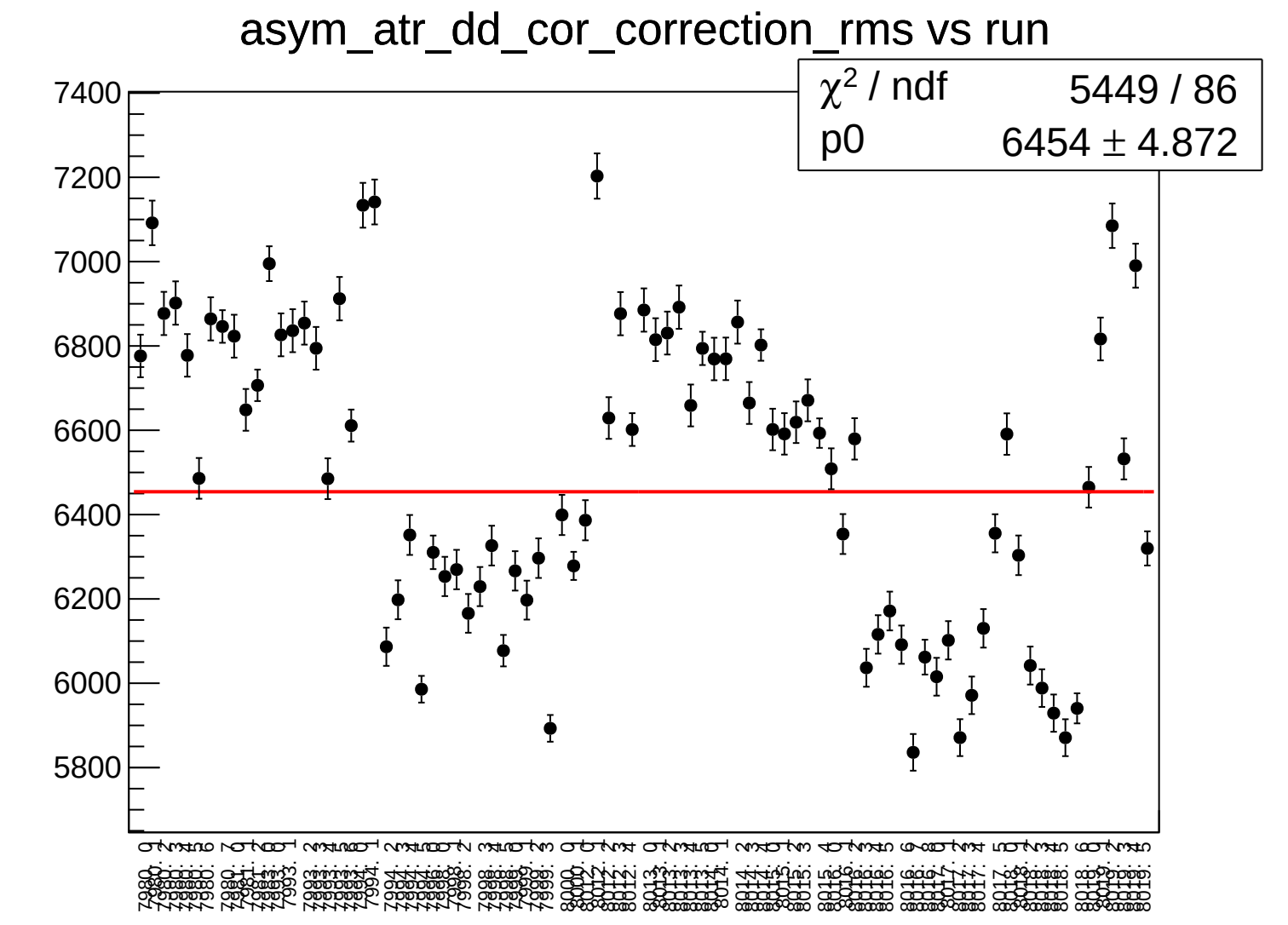

cor_asym_atr_dd_mean vs run
χ² / ndf 88.61 / 86
p0 −4066 ± 2078
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 455
Std Dev 0
3
2
1
0
−1
−2

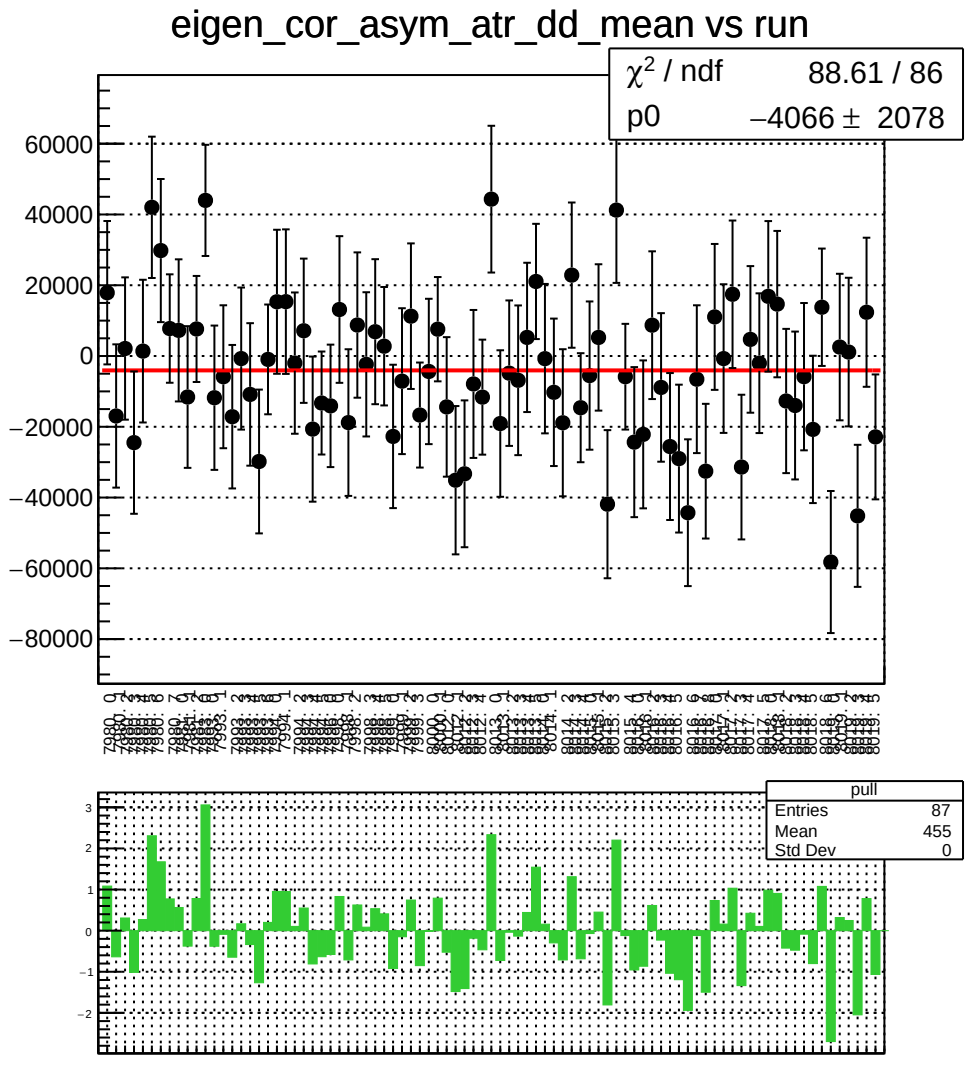

pull1D
Entries 87
Mean −0.01438
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

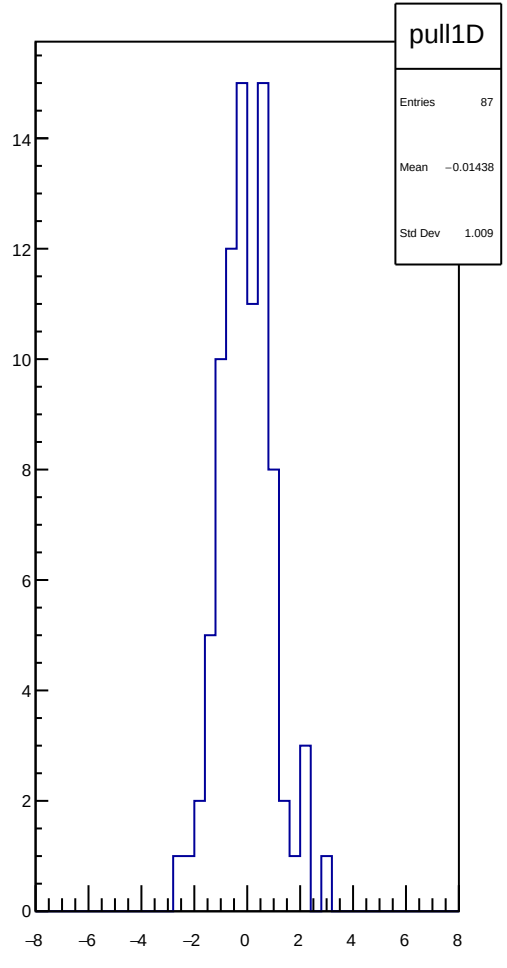

cor_asym_atr_dd_rms vs run
χ² / ndf 500.4 / 86
p0 1950 ± 1.47
2050
2000
1950
1900
1850

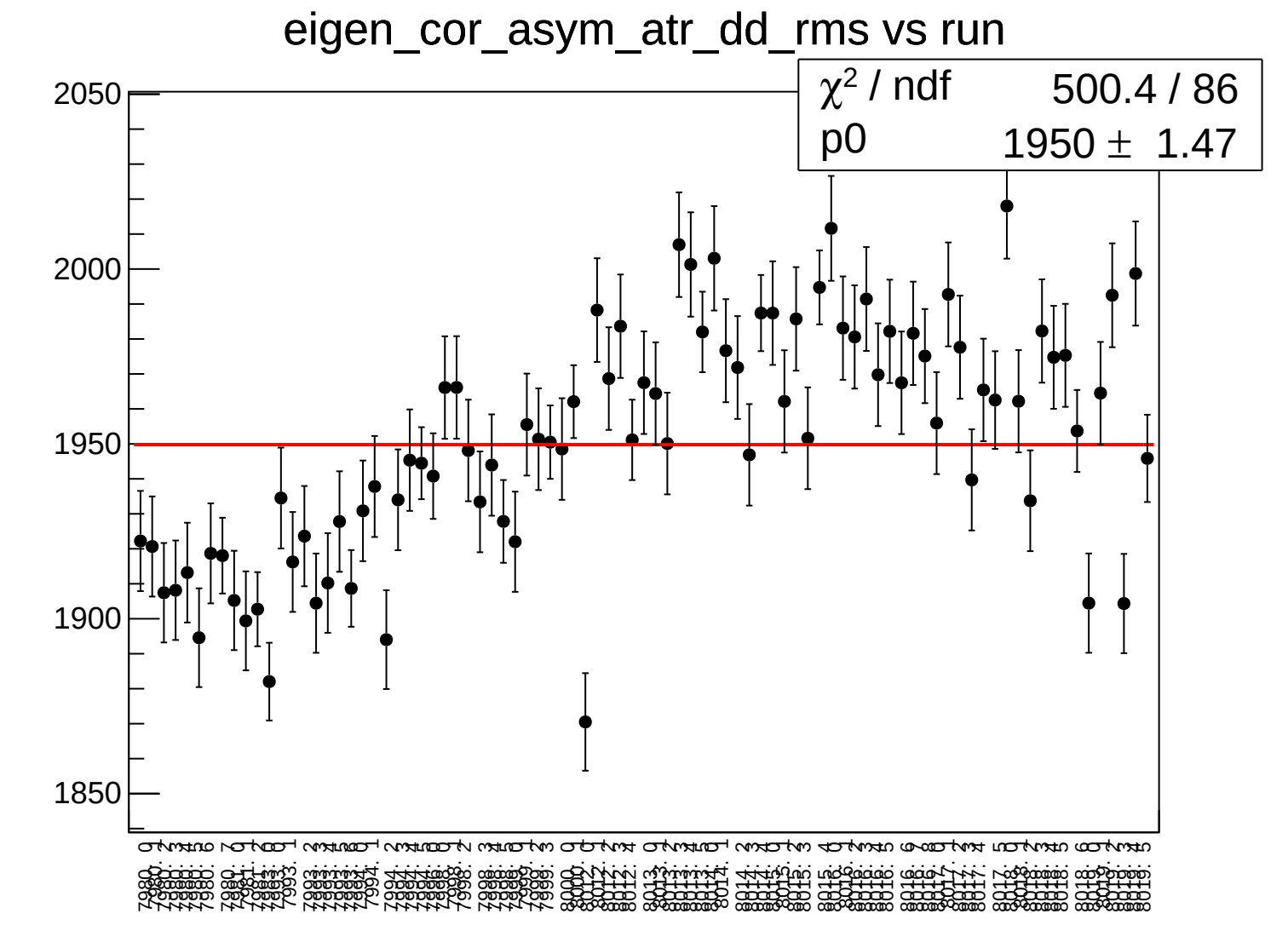

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 94.87 / 86
p0 1.249e+04 ± 6889
×10³
pull
Entries 87
Mean −1215
Std Dev 0

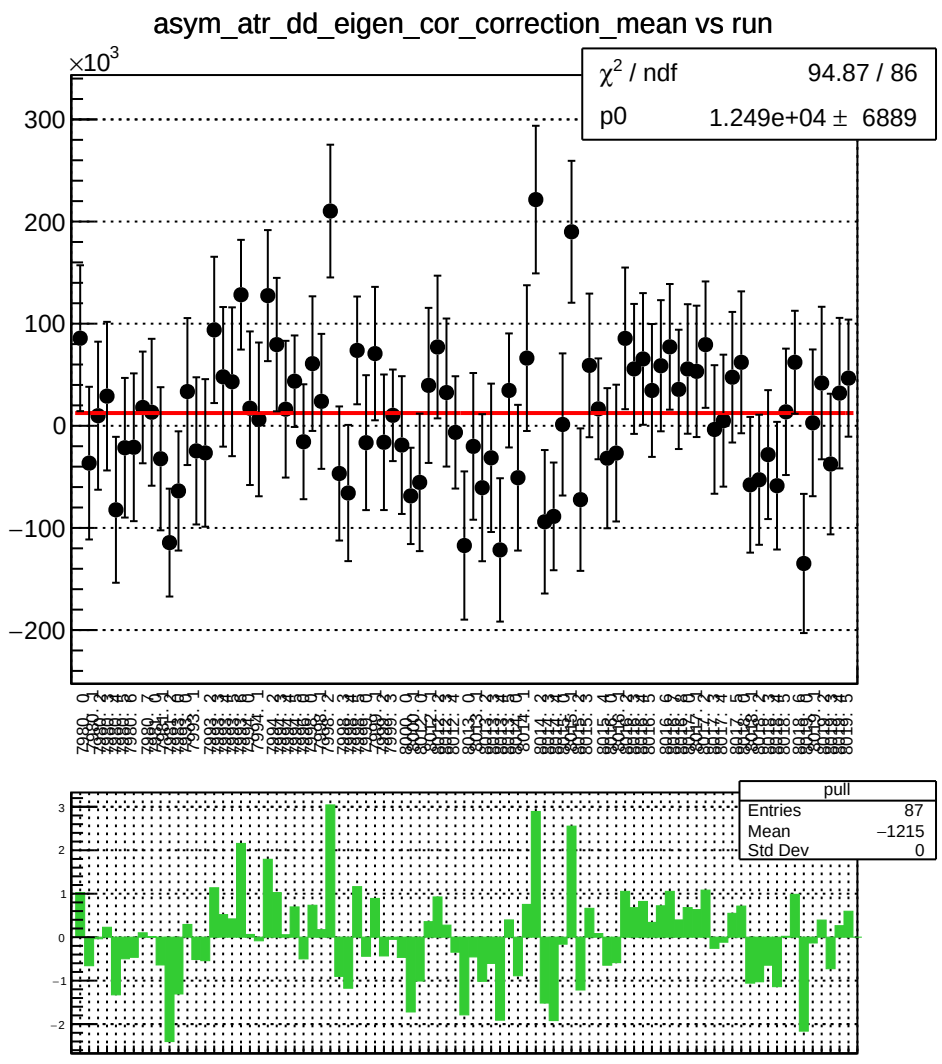

pull1D
Entries 87
Mean −0.0003466
Std Dev 1.044

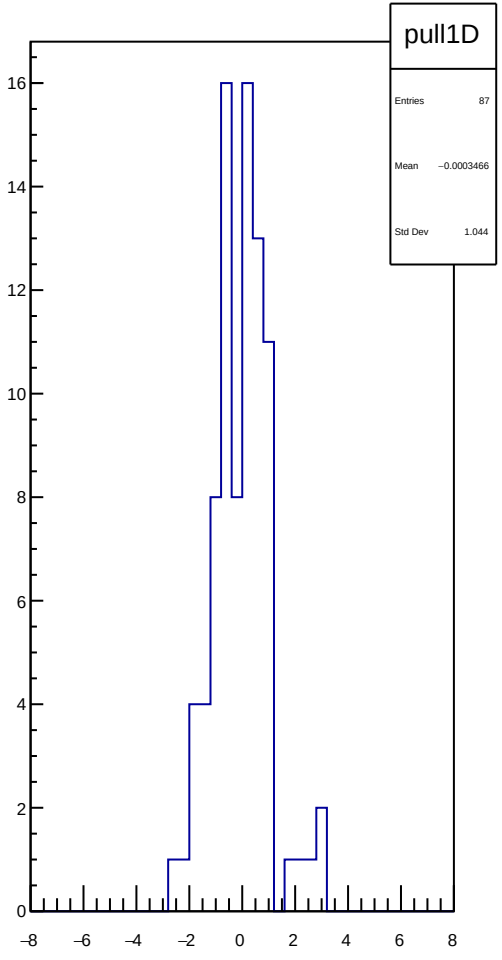

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 5449 / 86
p0 6454 ± 4.872
7400
7200
7000
6800
6600
6400
6200
6000
5800

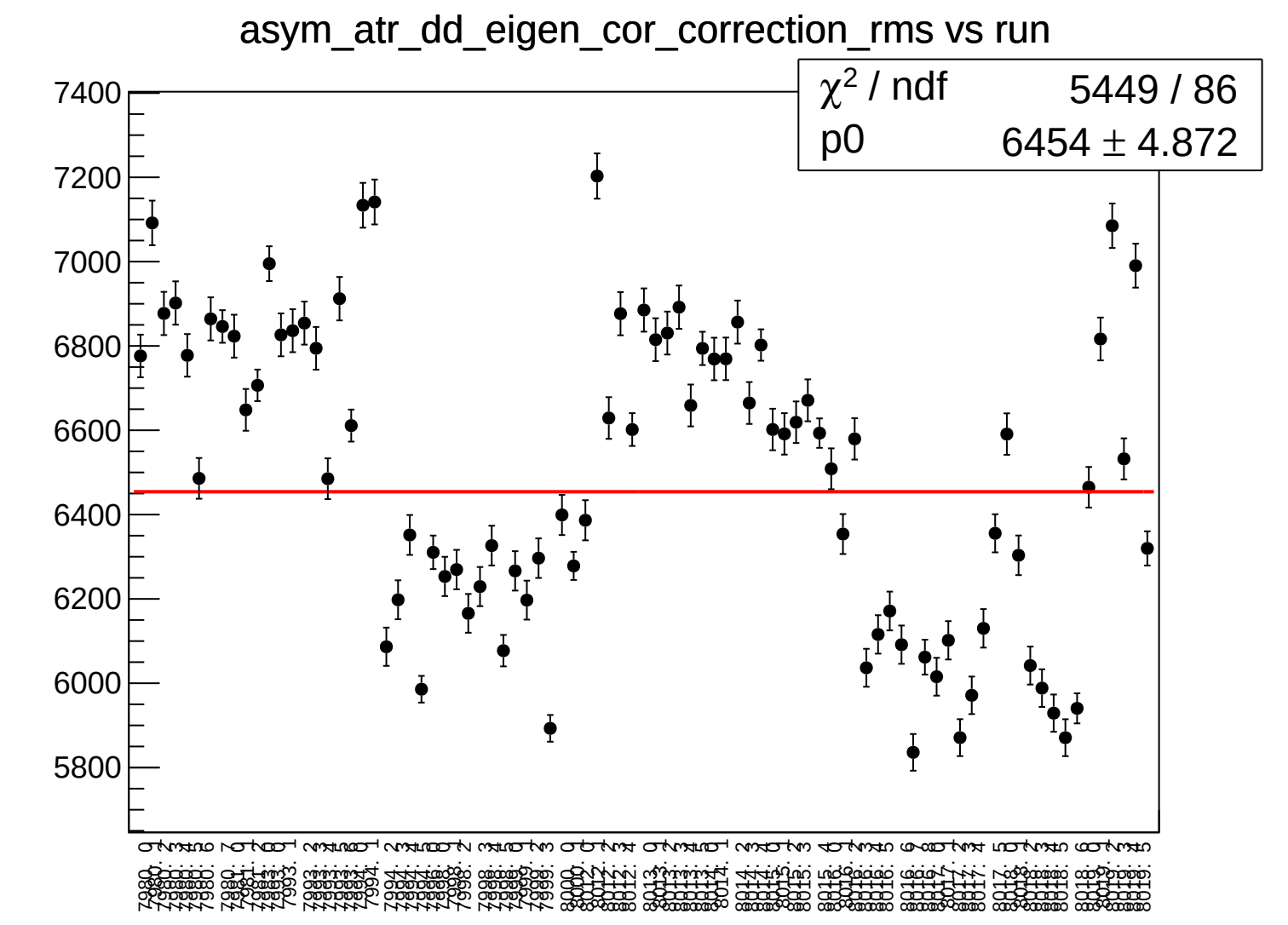

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 88.61 / 86
p0 −4066 ± 2078
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 455
Std Dev 0
3
2
1
0
−1
−2

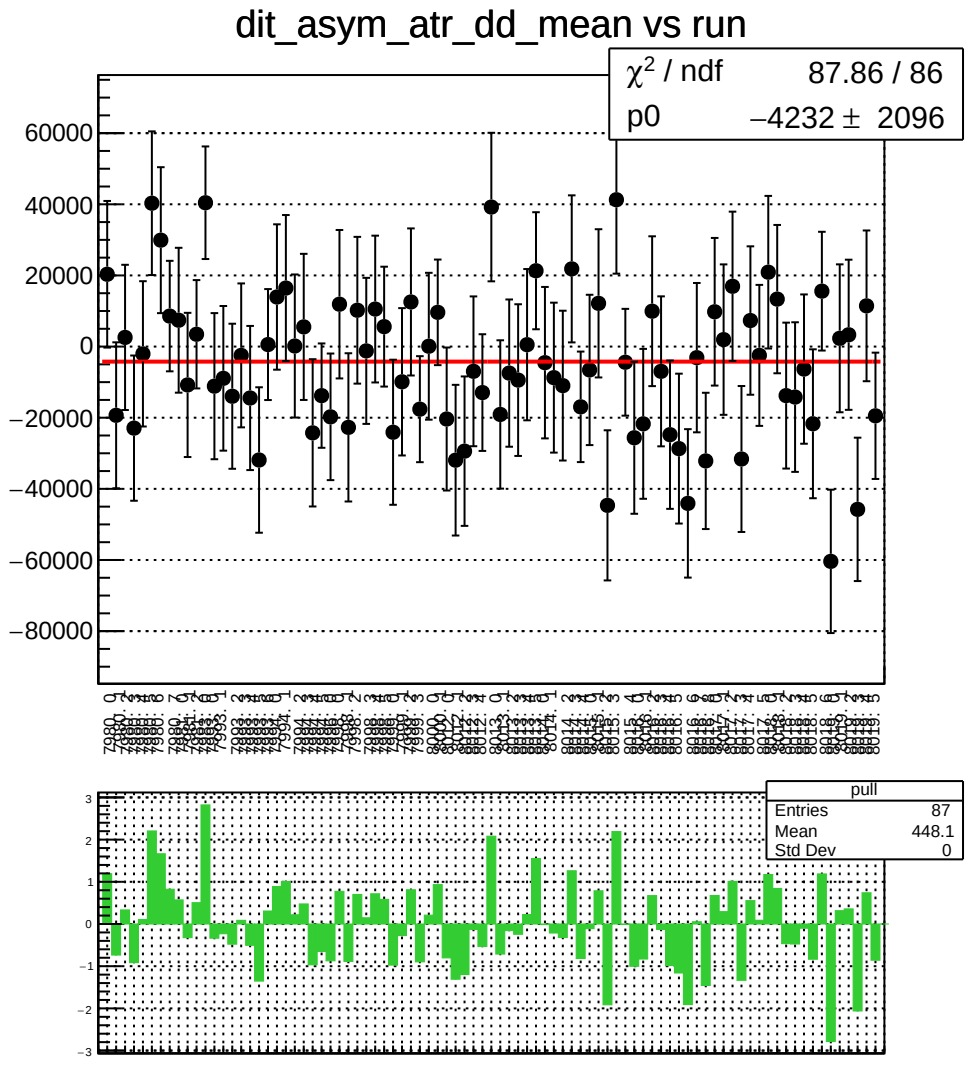

pull1D
Entries 87
Mean −0.01438
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

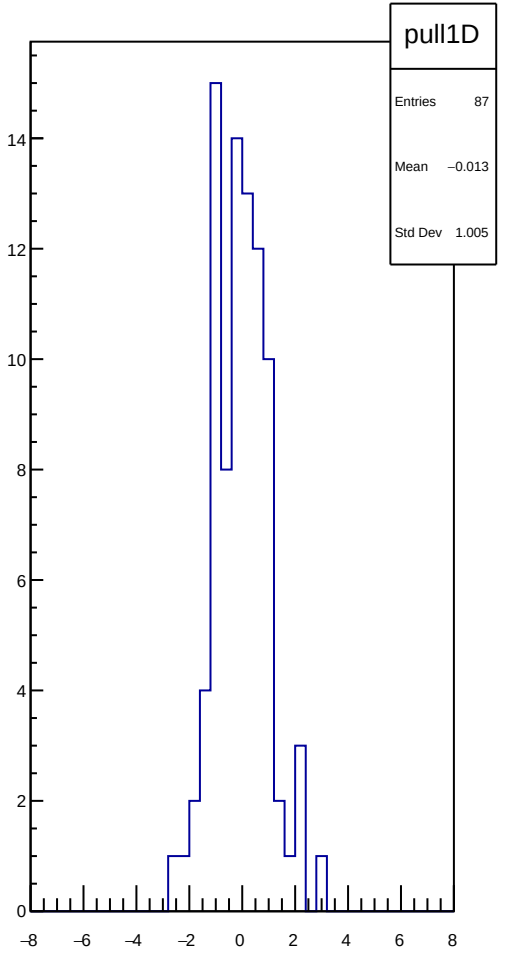

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 500.4 / 86
p0 1950 ± 1.47
2050
2000
1950
1900
1850

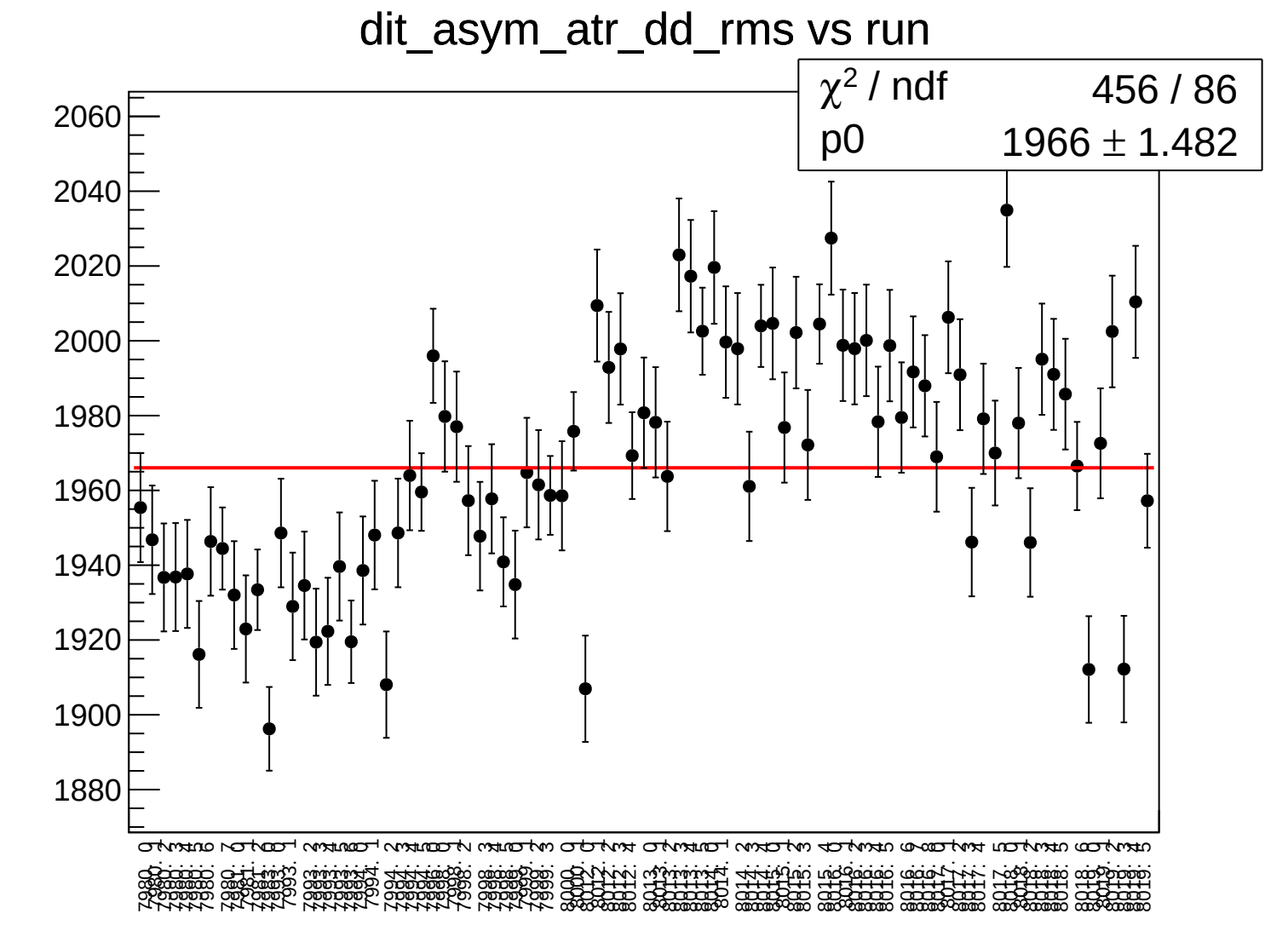

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.87 / 86
p0 1.249e+04 ± 6889
pull
Entries 87
Mean −1215
Std Dev 0

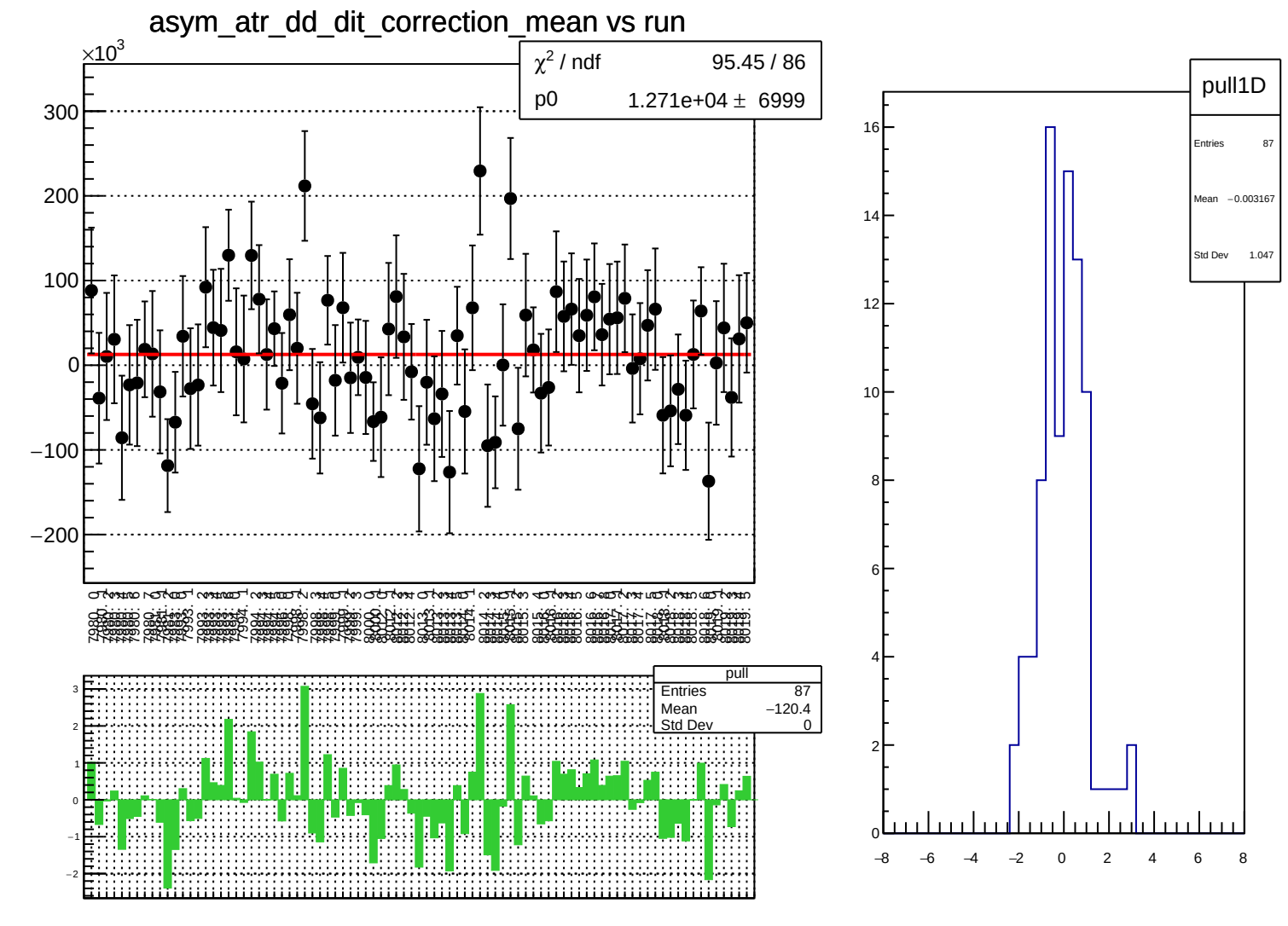

pull1D
Entries 87
Mean −0.0003466
Std Dev 1.044

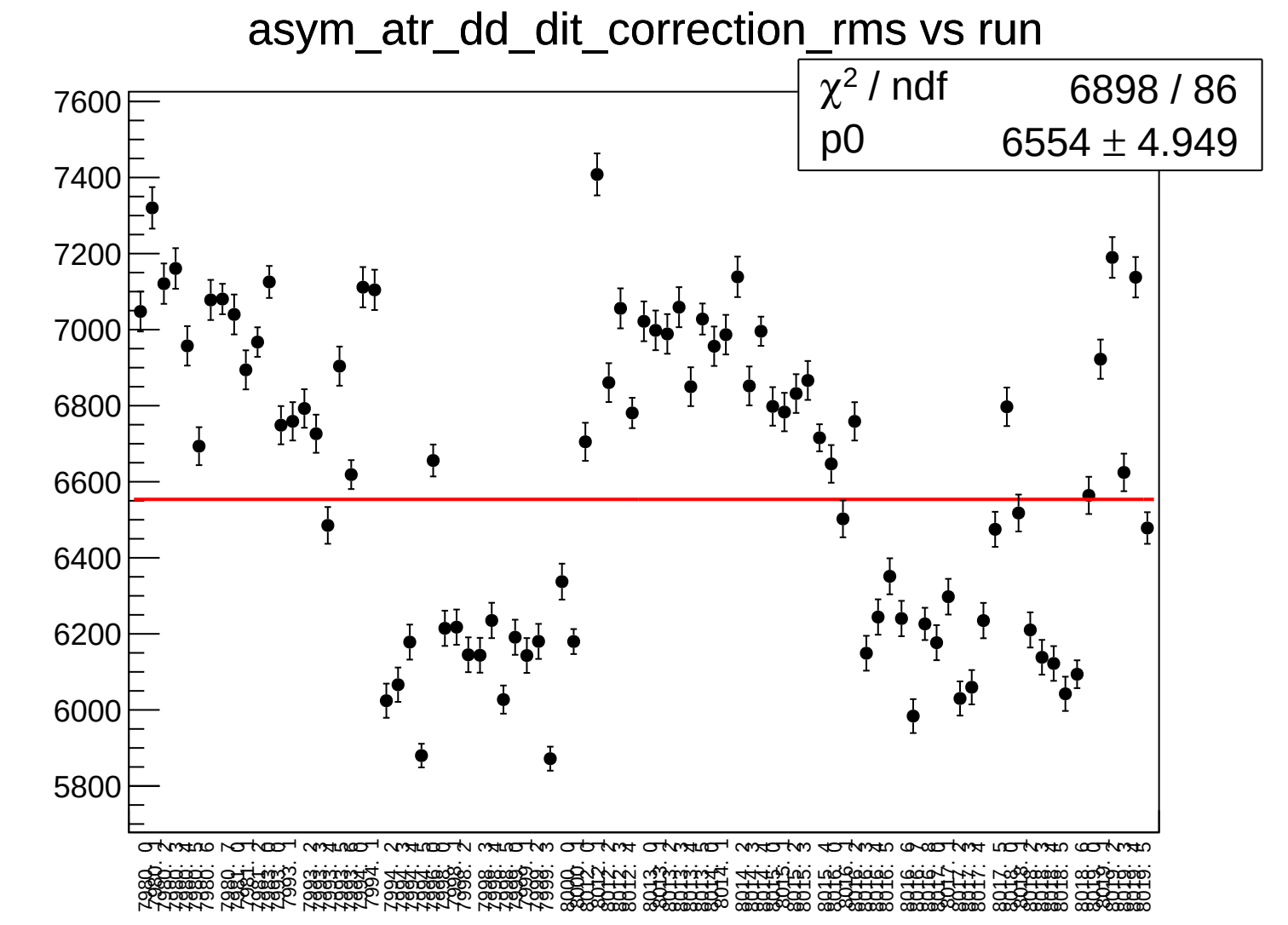

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 5449 / 86
p0 6454 ± 4.872
7400
7200
7000
6800
6600
6400
6200
6000
5800

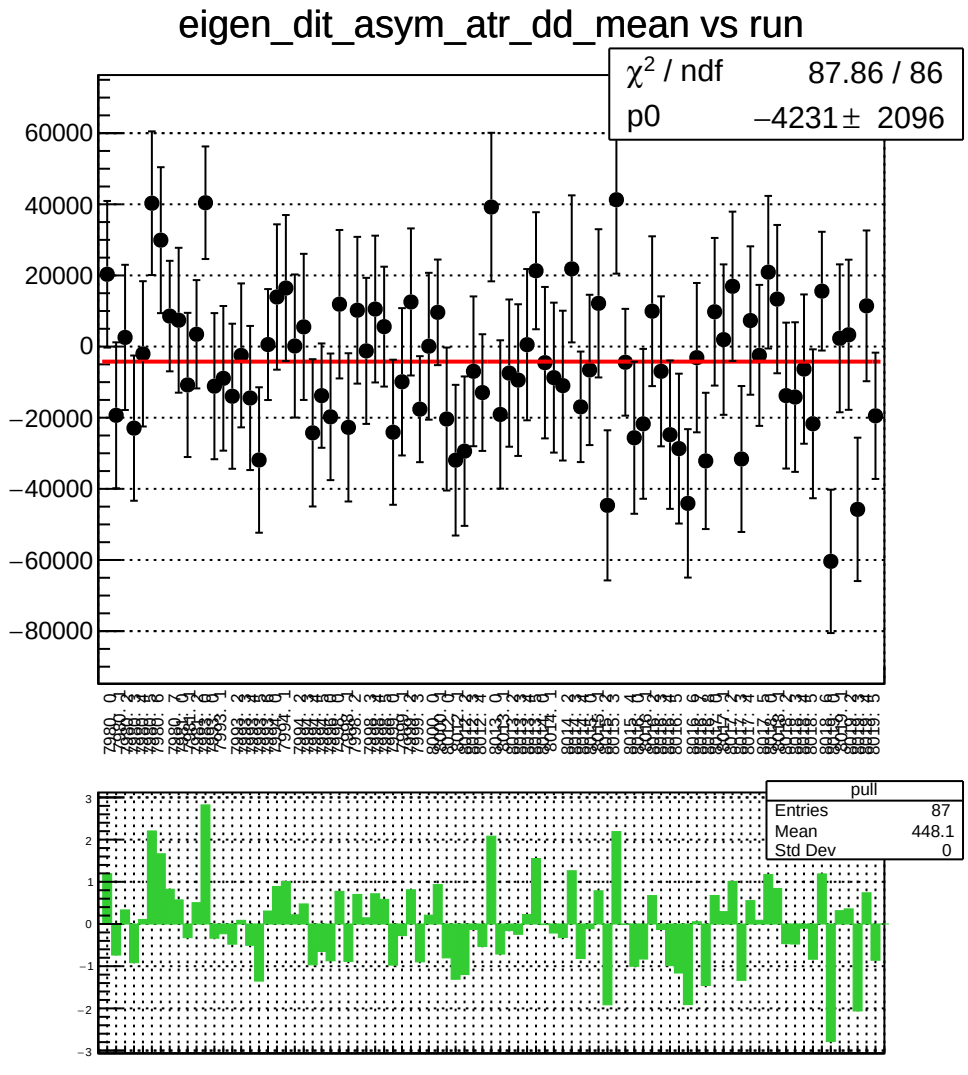

dit_asym_atr_dd_mean vs run
χ² / ndf 87.86 / 86
p0 −4232 ± 2096
pull
Entries 87
Mean 448.1
Std Dev 0

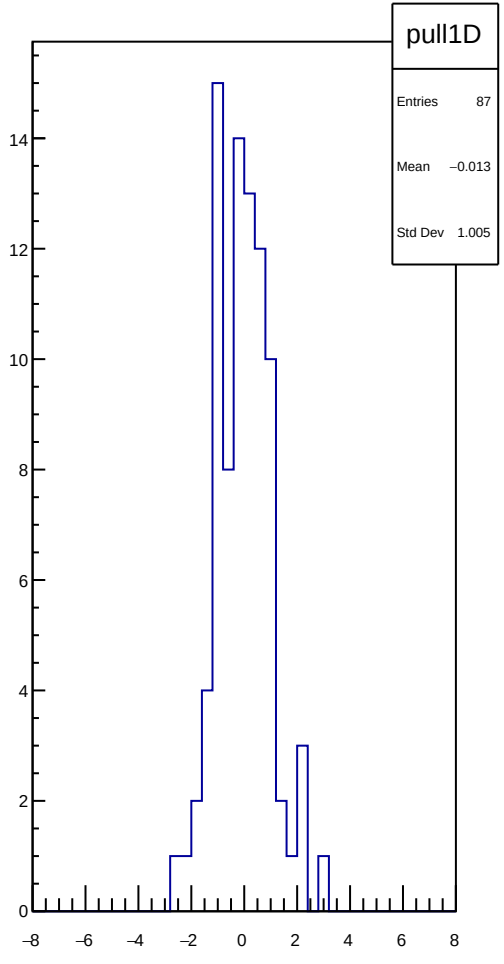

pull1D
Entries 87
Mean −0.013
Std Dev 1.005

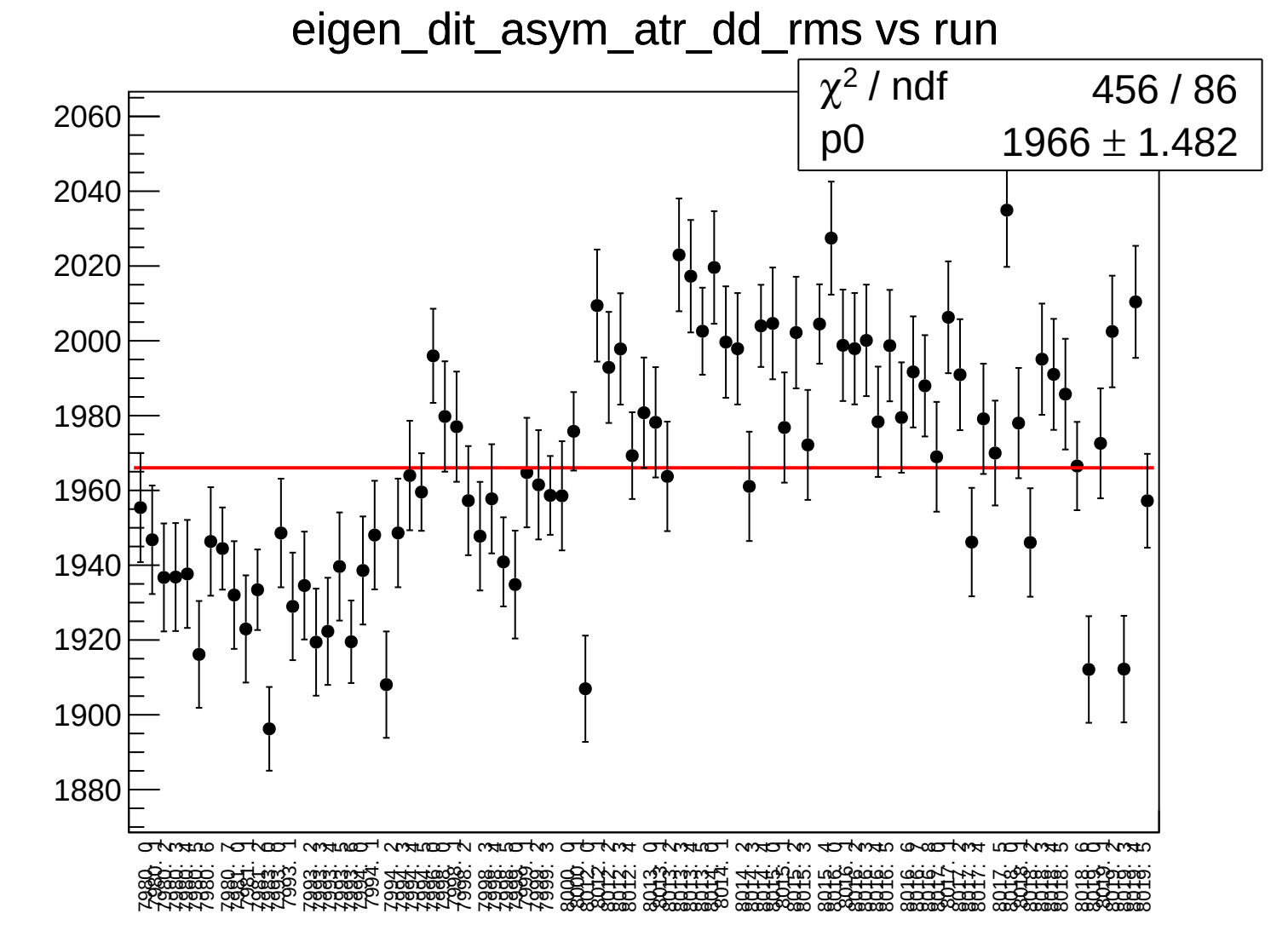

dit_asym_atr_dd_rms vs run
χ^2 / ndf 456 / 86
p0 1966 ± 1.482
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

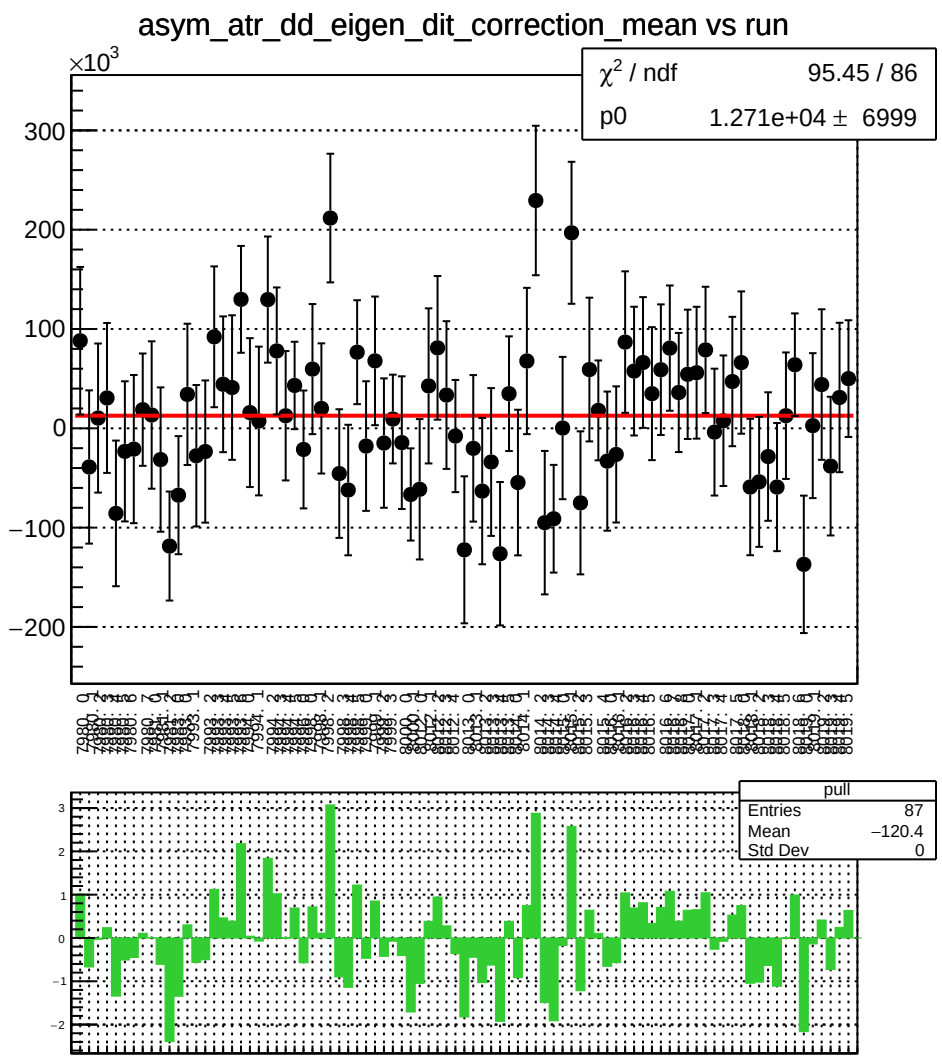

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 95.45 / 86
p0 1.271e+04 ± 6999
300
200
100
0
−100
−200
pull
Entries 87
Mean −120.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.003167
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

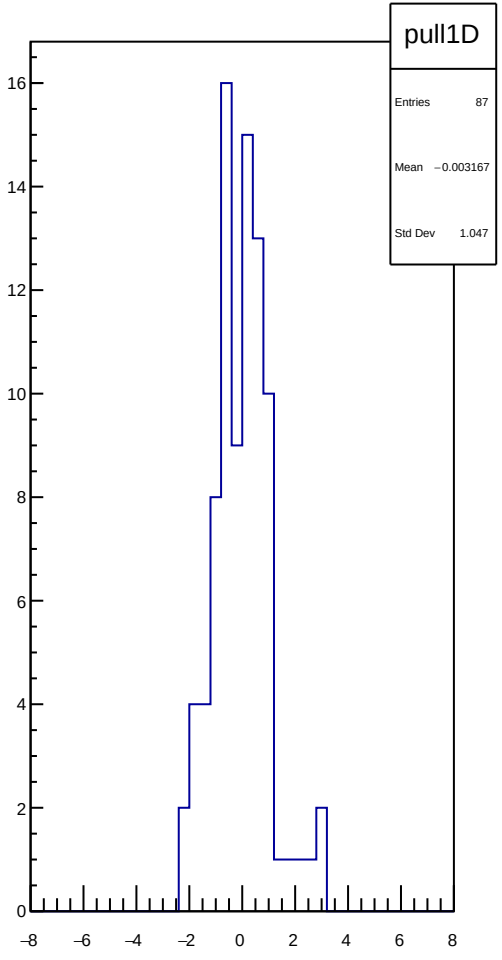

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 6898 / 86
p0 6554 ± 4.949
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

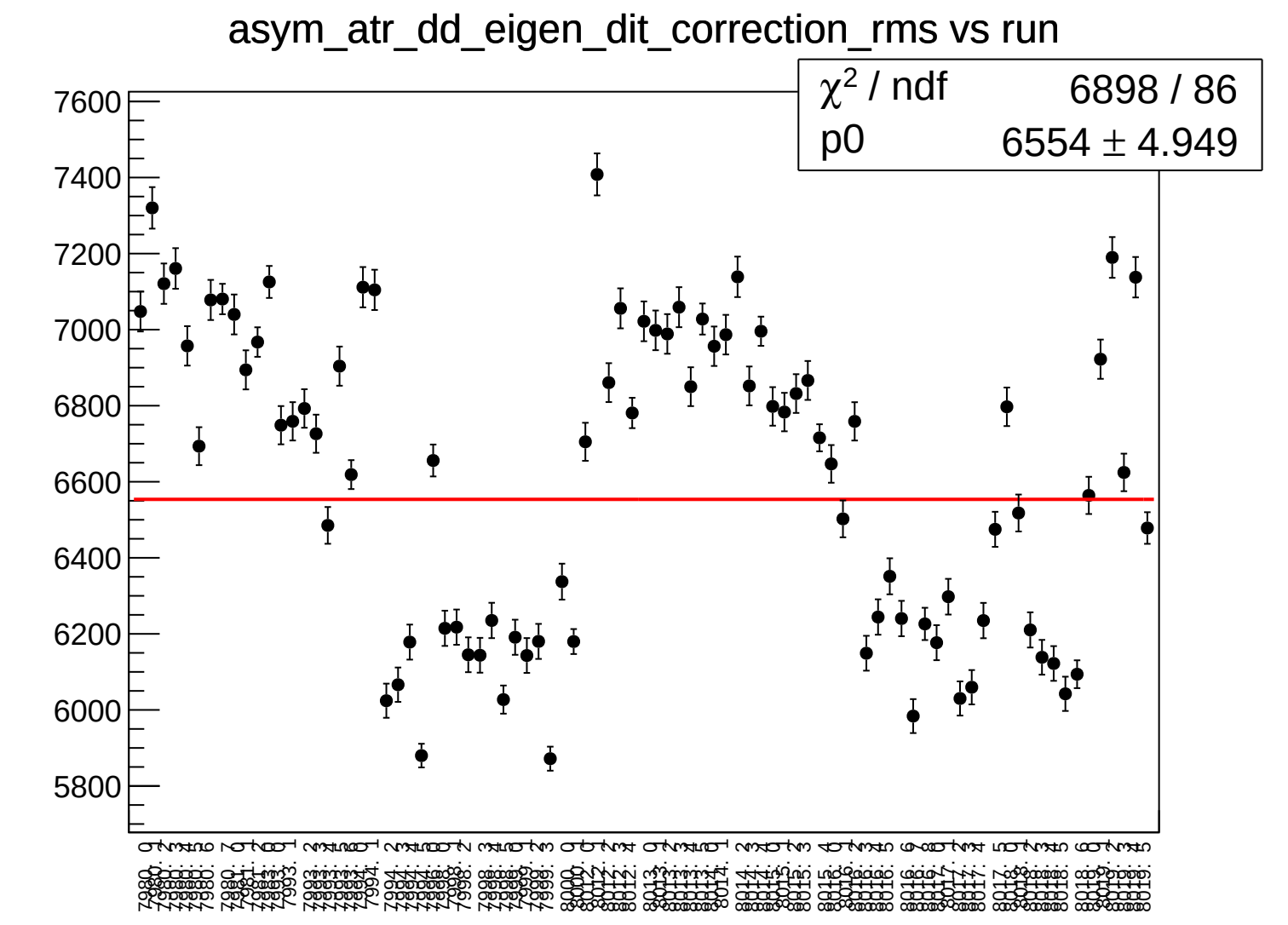

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 87.86 / 86
p0 −4231 ± 2096
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 448.1
Std Dev 0
3
2
1
0
−1
−2
−3

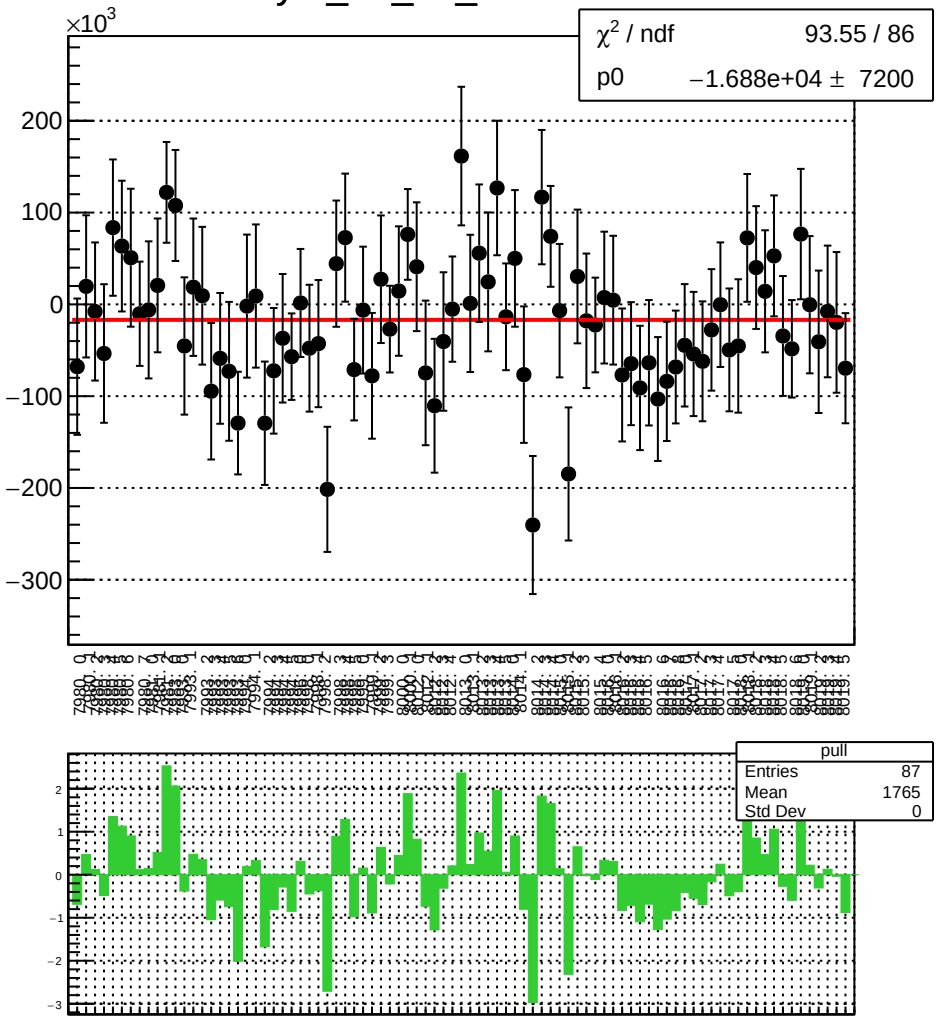

pull1D
Entries 87
Mean −0.013
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

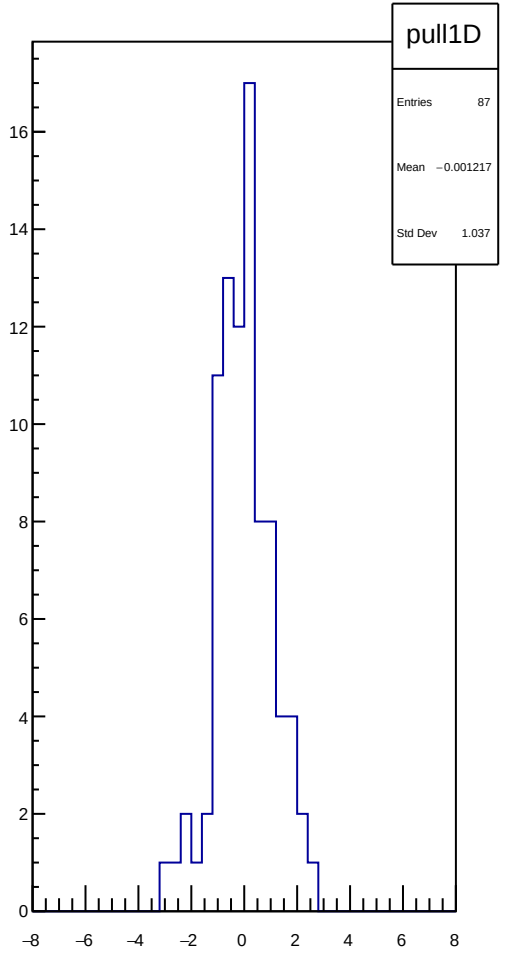

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 456 / 86
p0 1966 ± 1.482
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

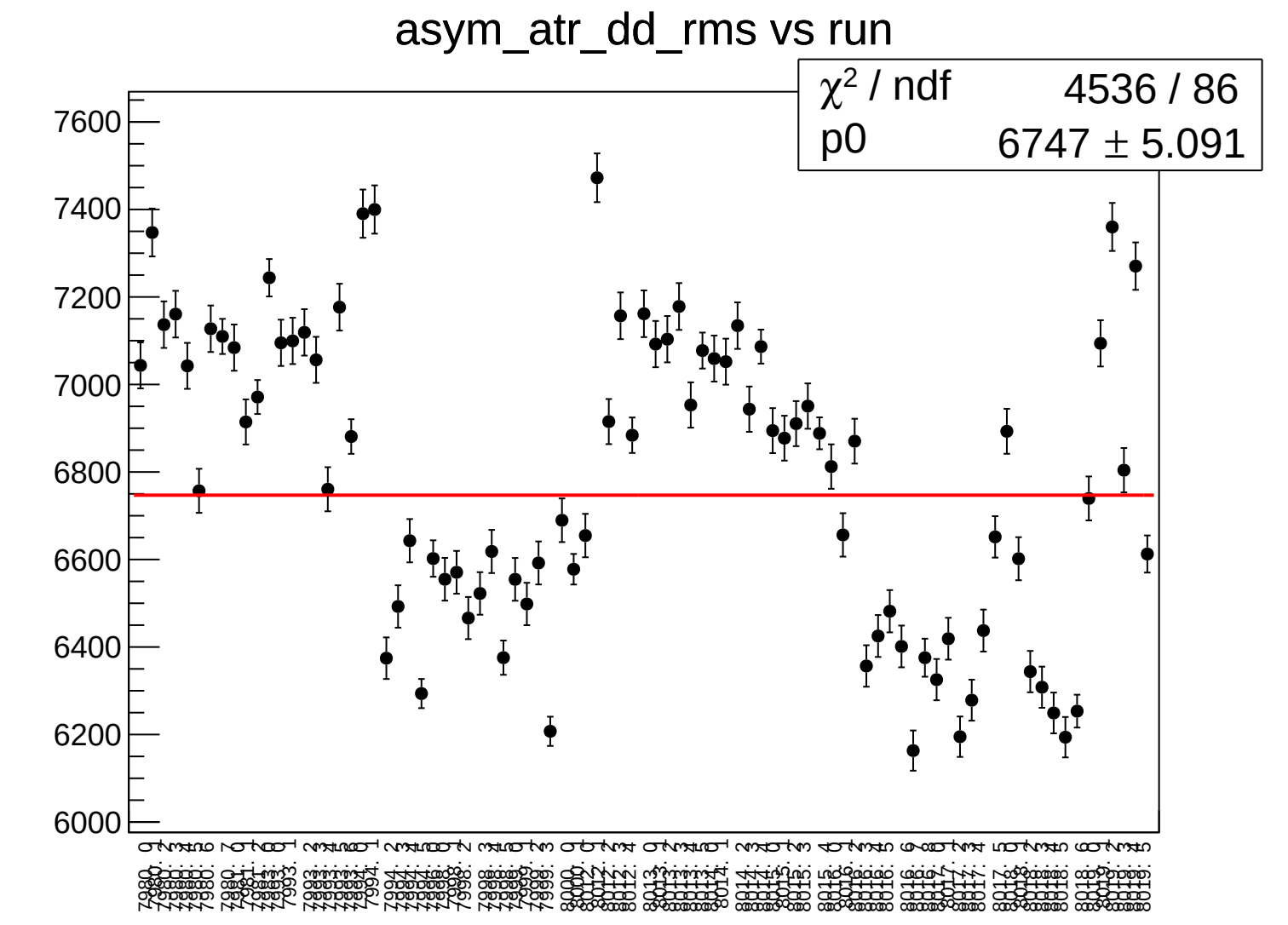

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.45 / 86
p0 1.271e+04 ± 6999
300
200
100
0
−100
−200
pull
Entries 87
Mean −120.4
Std Dev 0
3
2
1
0
−1
−2

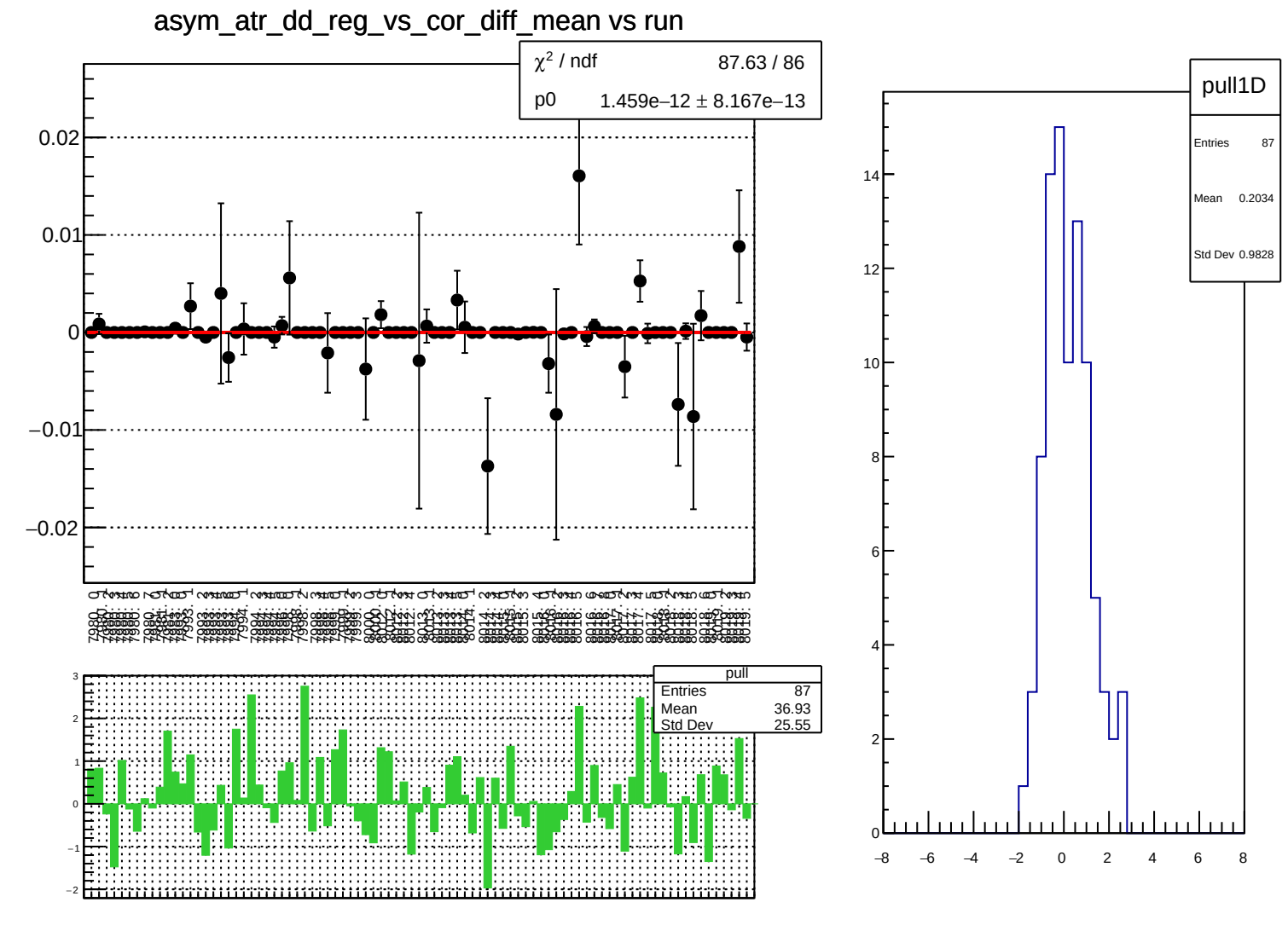

pull1D
Entries 87
Mean −0.003167
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

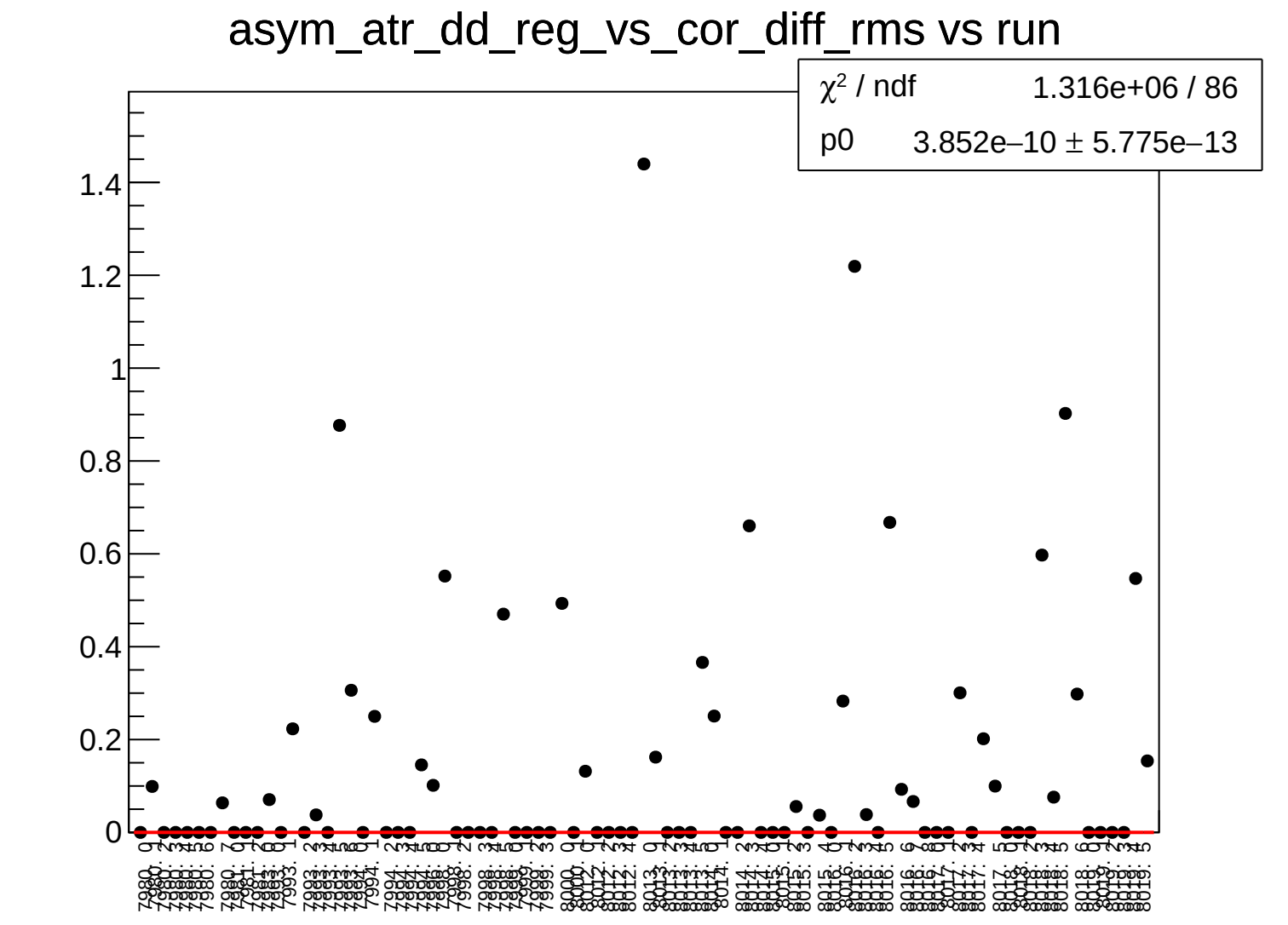

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 6898 / 86
p0 6554 ± 4.949
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

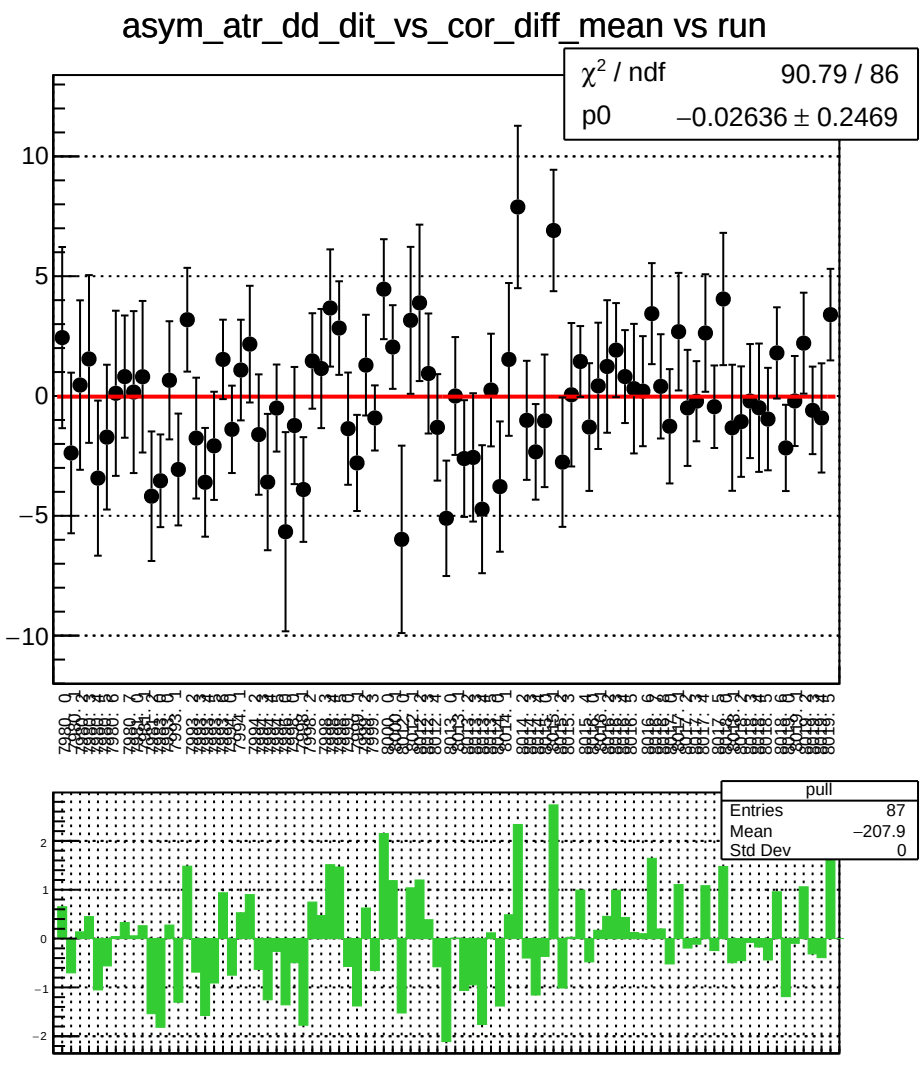

asym_atr_dd_mean vs run
×10^3
χ² / ndf 93.55 / 86
p0 −1.688e+04 ± 7200
200
100
0
−100
−200
−300
pull
Entries 87
Mean 1765
Std Dev 0
2
1
0
−1
−2
−3

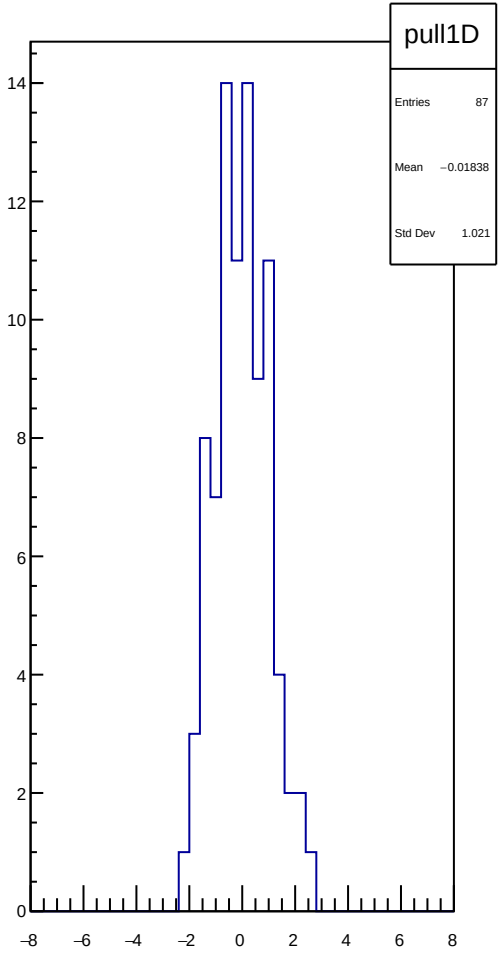

pull1D
Entries 87
Mean −0.001217
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

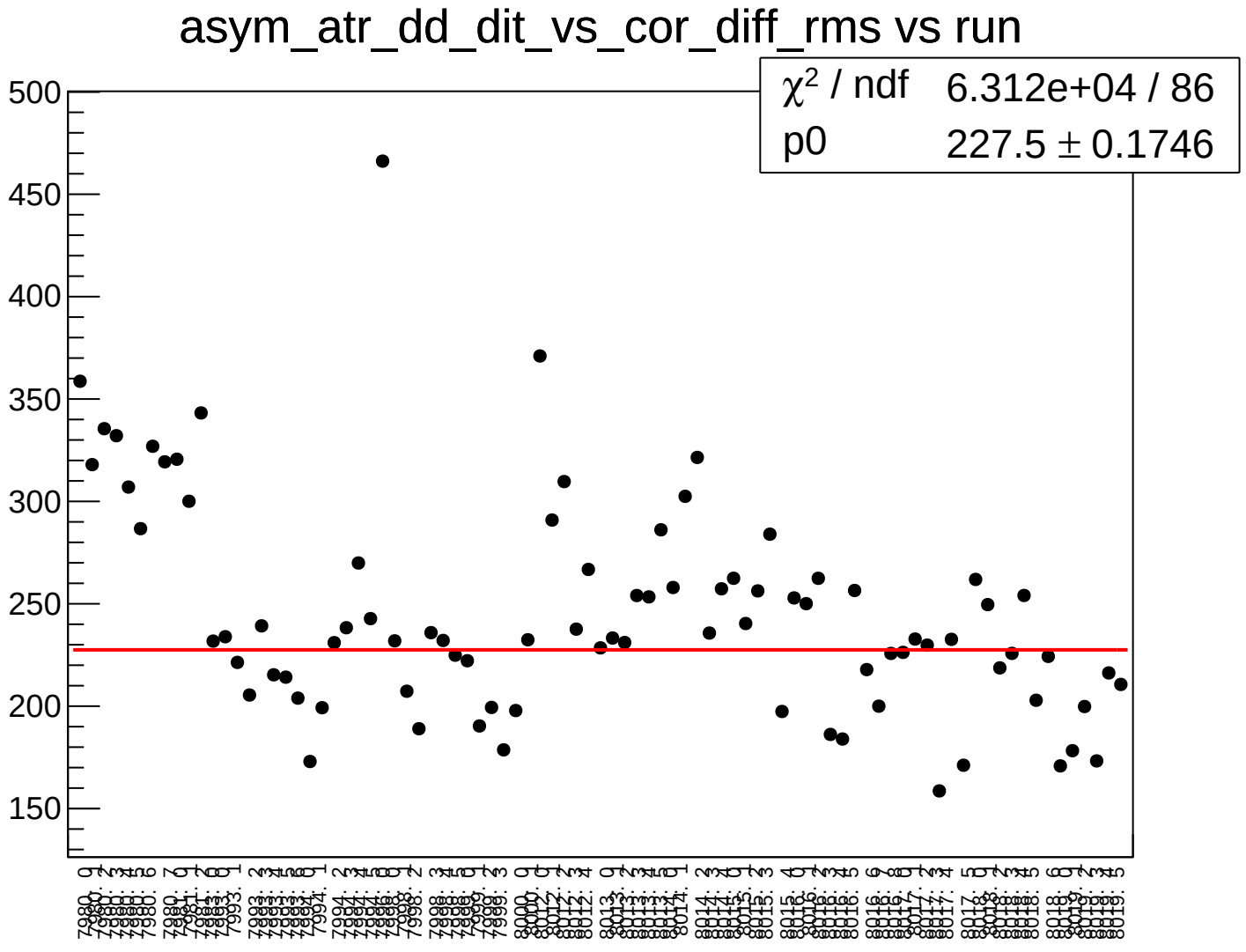

asym_atr_dd_rms vs run
χ² / ndf 4536 / 86
p0 6747 ± 5.091
7600
7400
7200
7000
6800
6600
6400
6200
6000

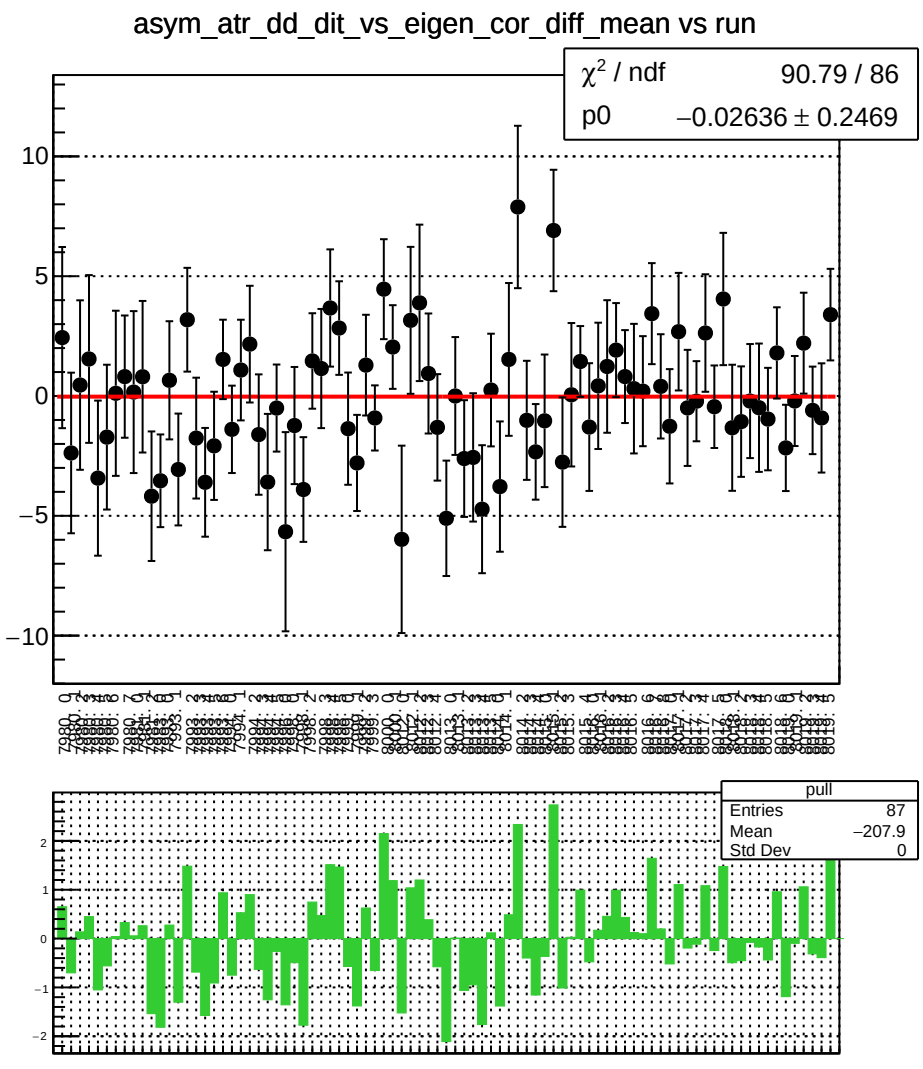

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.63 / 86
p0 1.459e−12 ± 8.167e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 36.93
Std Dev 25.55
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.2034
Std Dev 0.9828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

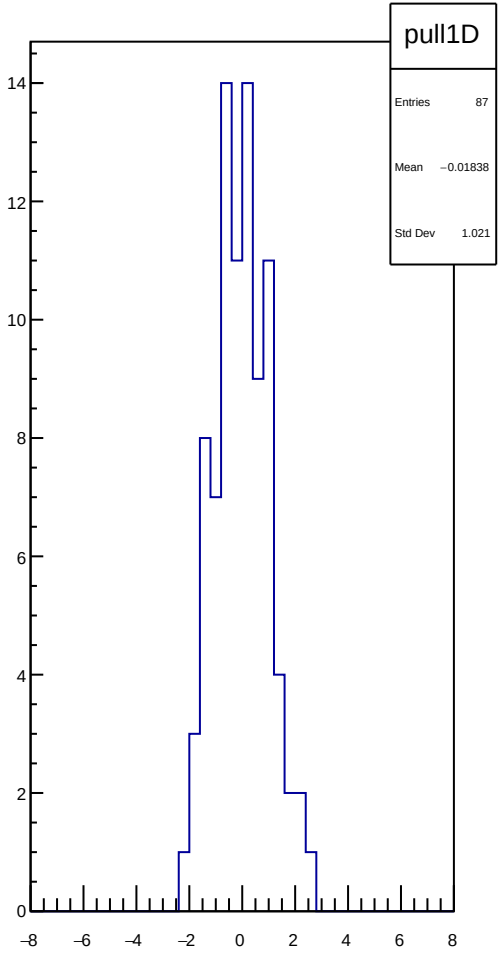

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.316e+06 / 86
p0 3.852e−10 ± 5.775e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

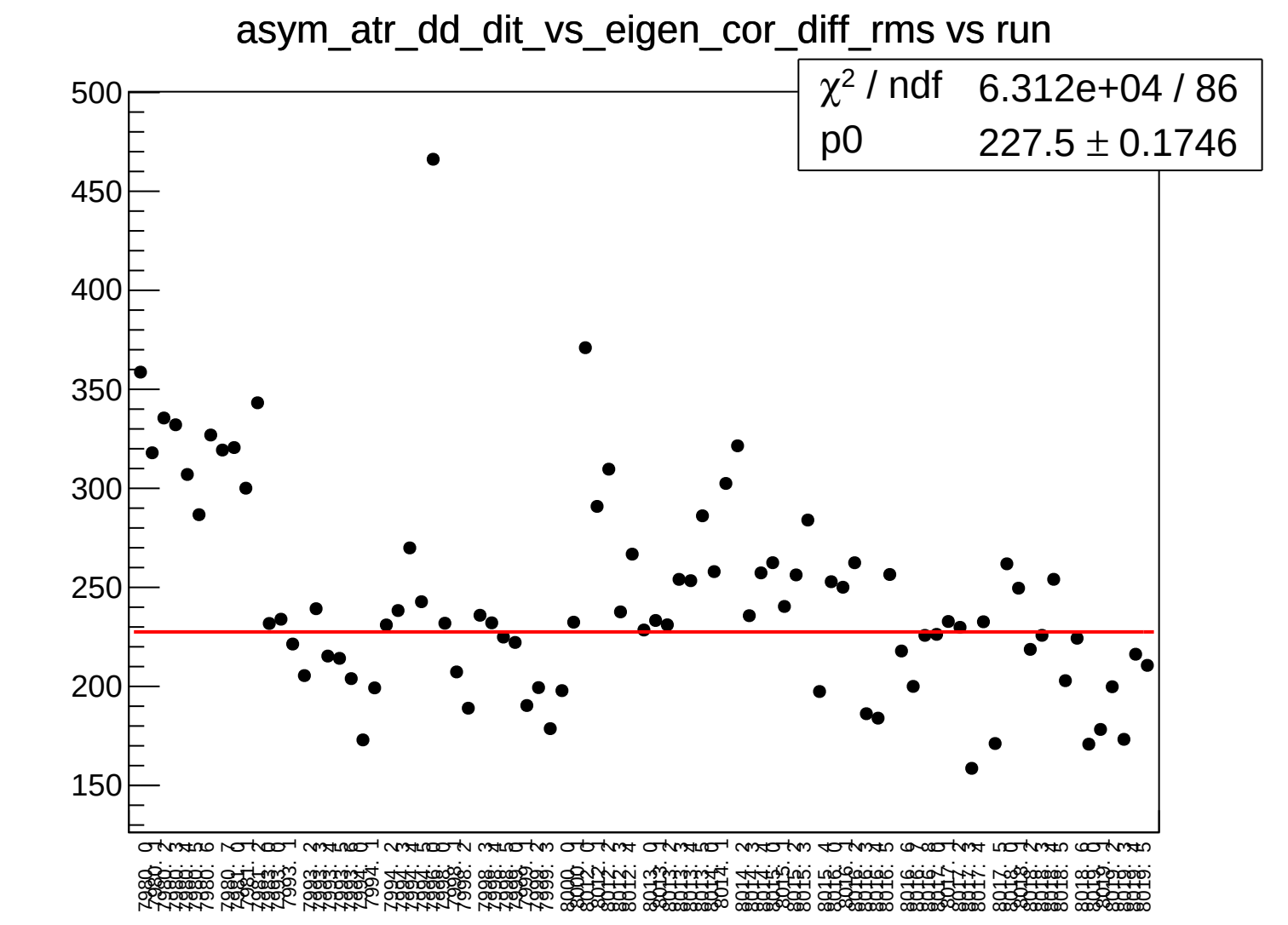

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.79 / 86
p0 −0.02636 ± 0.2469
10
5
0
−5
−10
pull
Entries 87
Mean −207.9
Std Dev 0
2
1
0
−1
−2

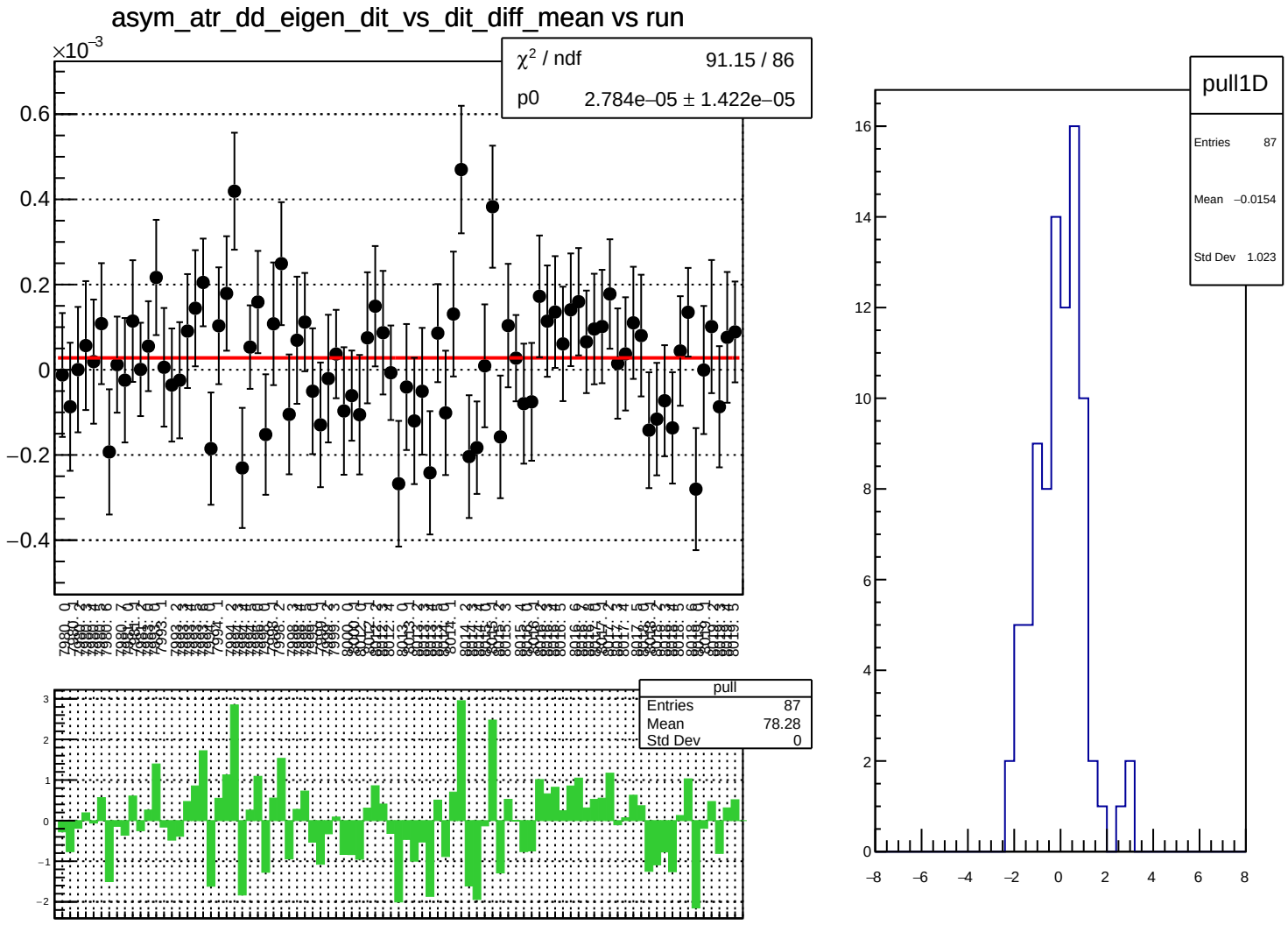

pull1D
Entries 87
Mean −0.01838
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

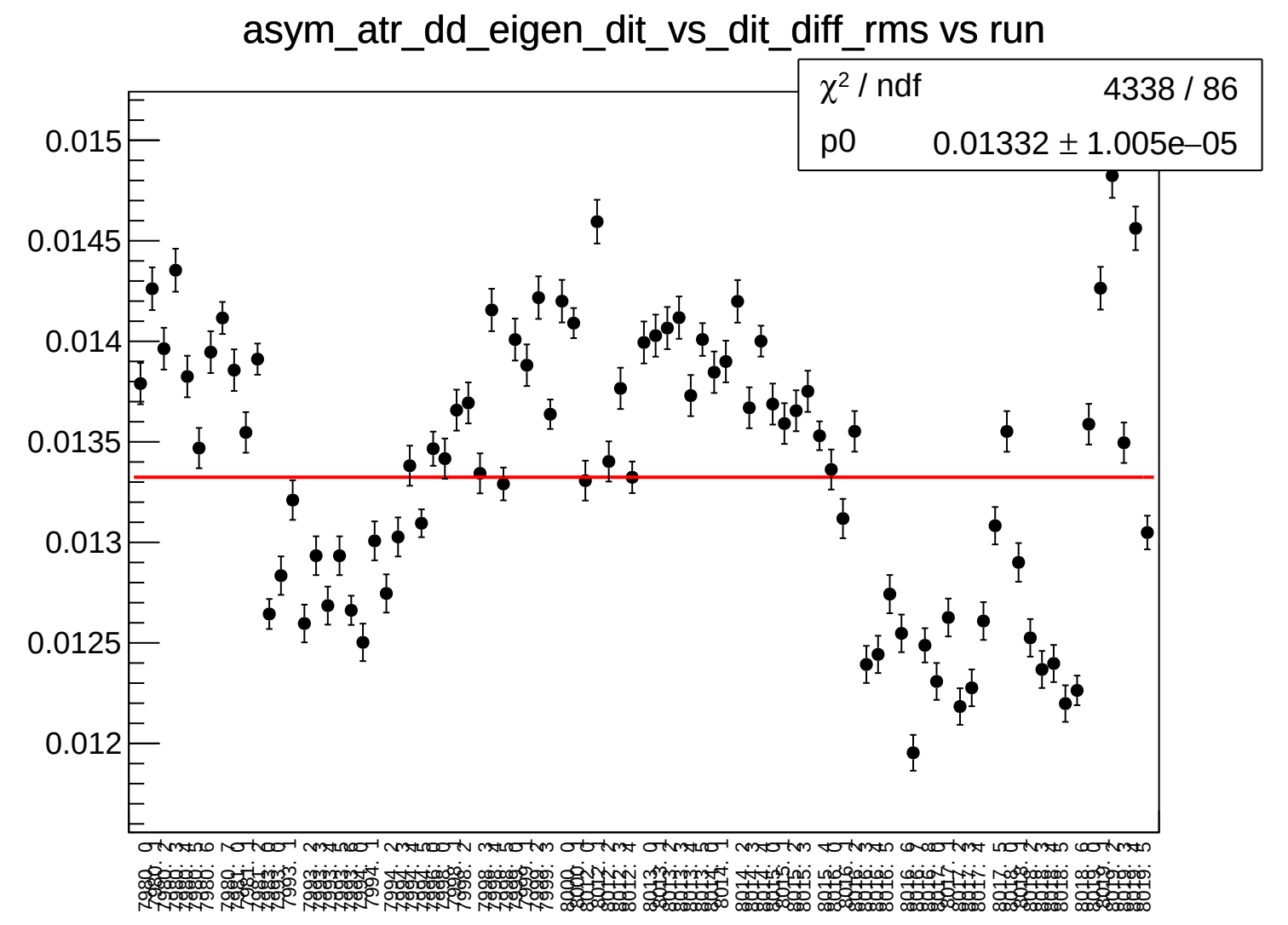

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.312e+04 / 86
p0 227.5 ± 0.1746
500
450
400
350
300
250
200
150

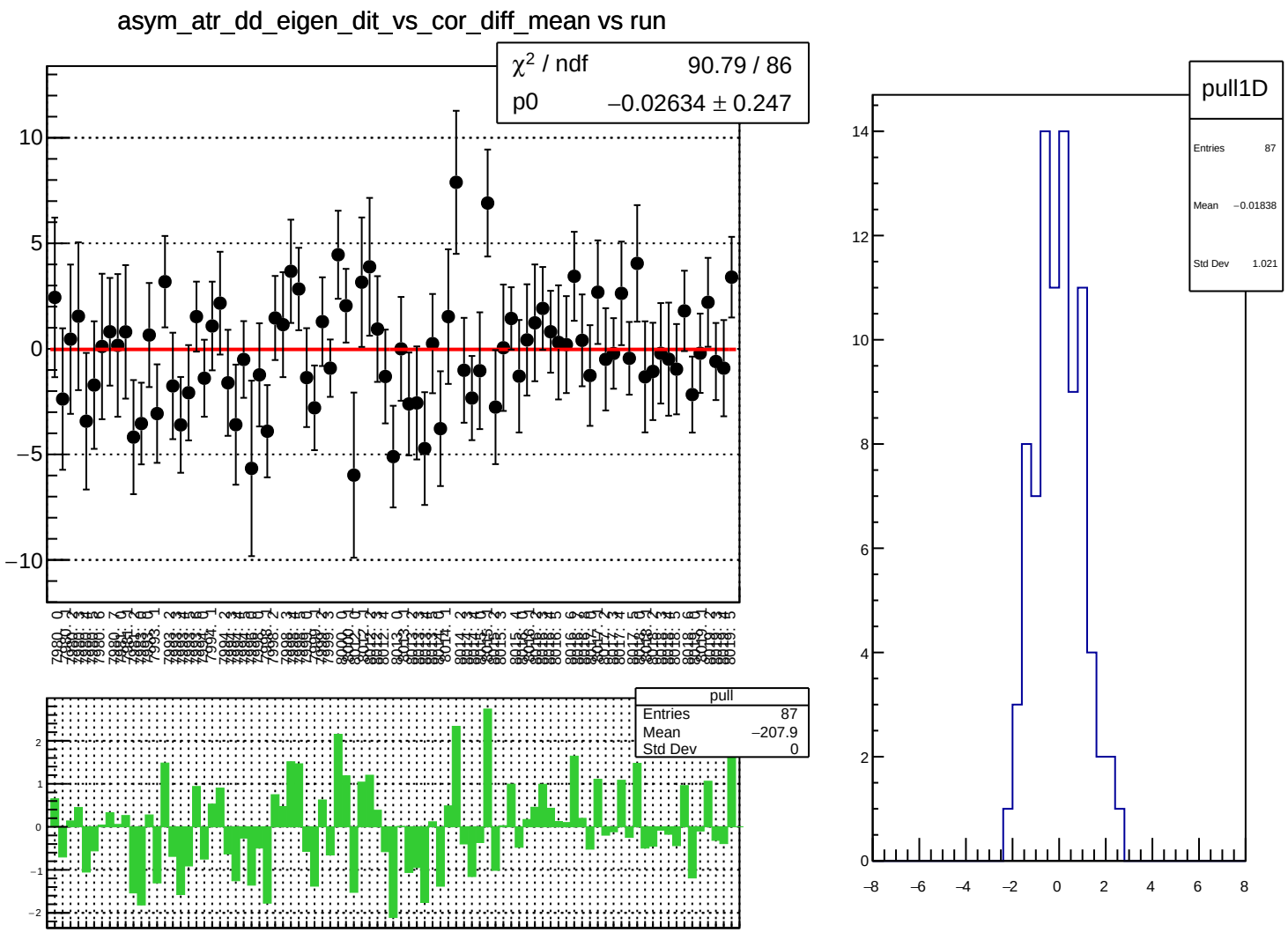

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.79 / 86
p0 −0.02636 ± 0.2469
pull
Entries 87
Mean −207.9
Std Dev 0

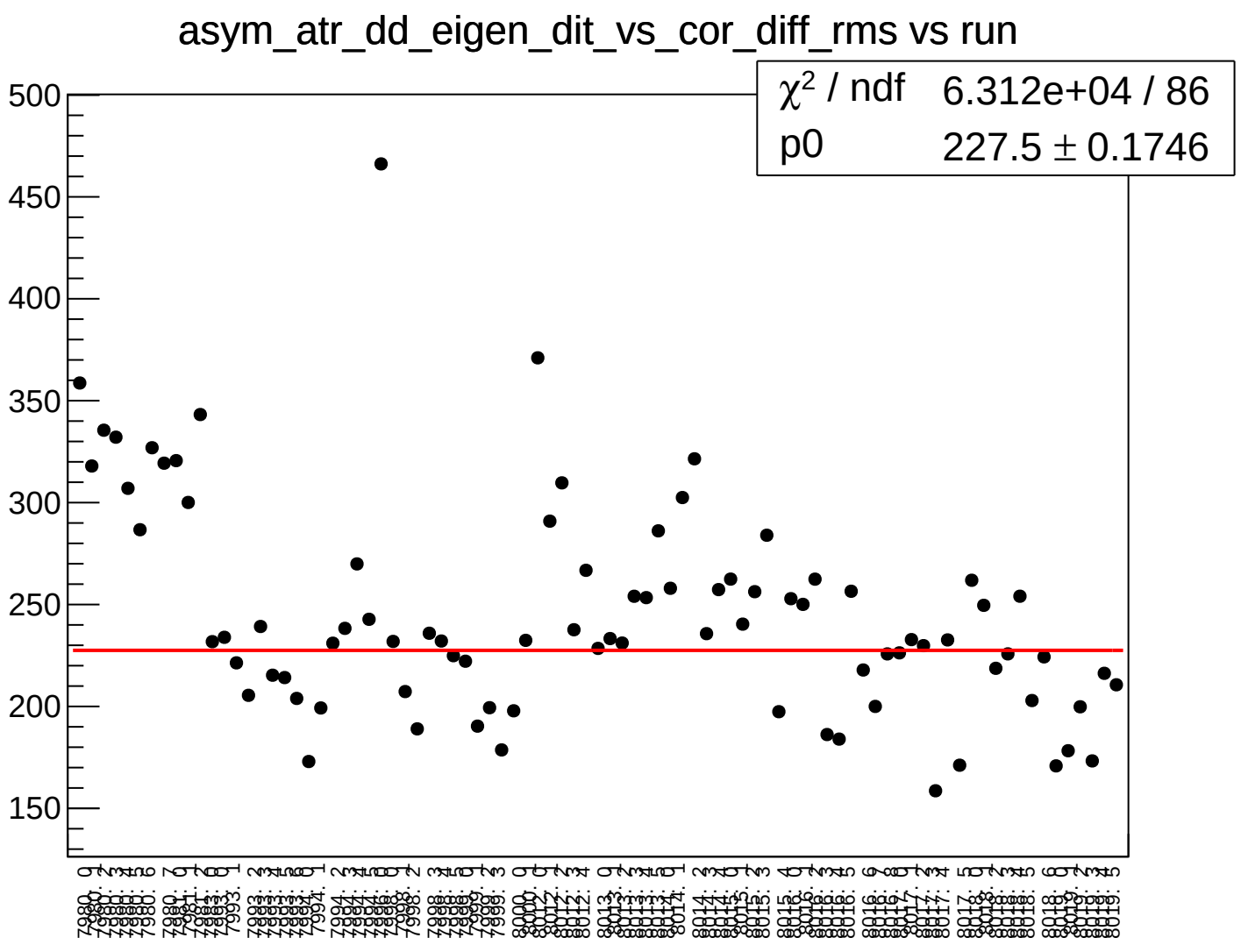

pull1D
Entries 87
Mean −0.01838
Std Dev 1.021

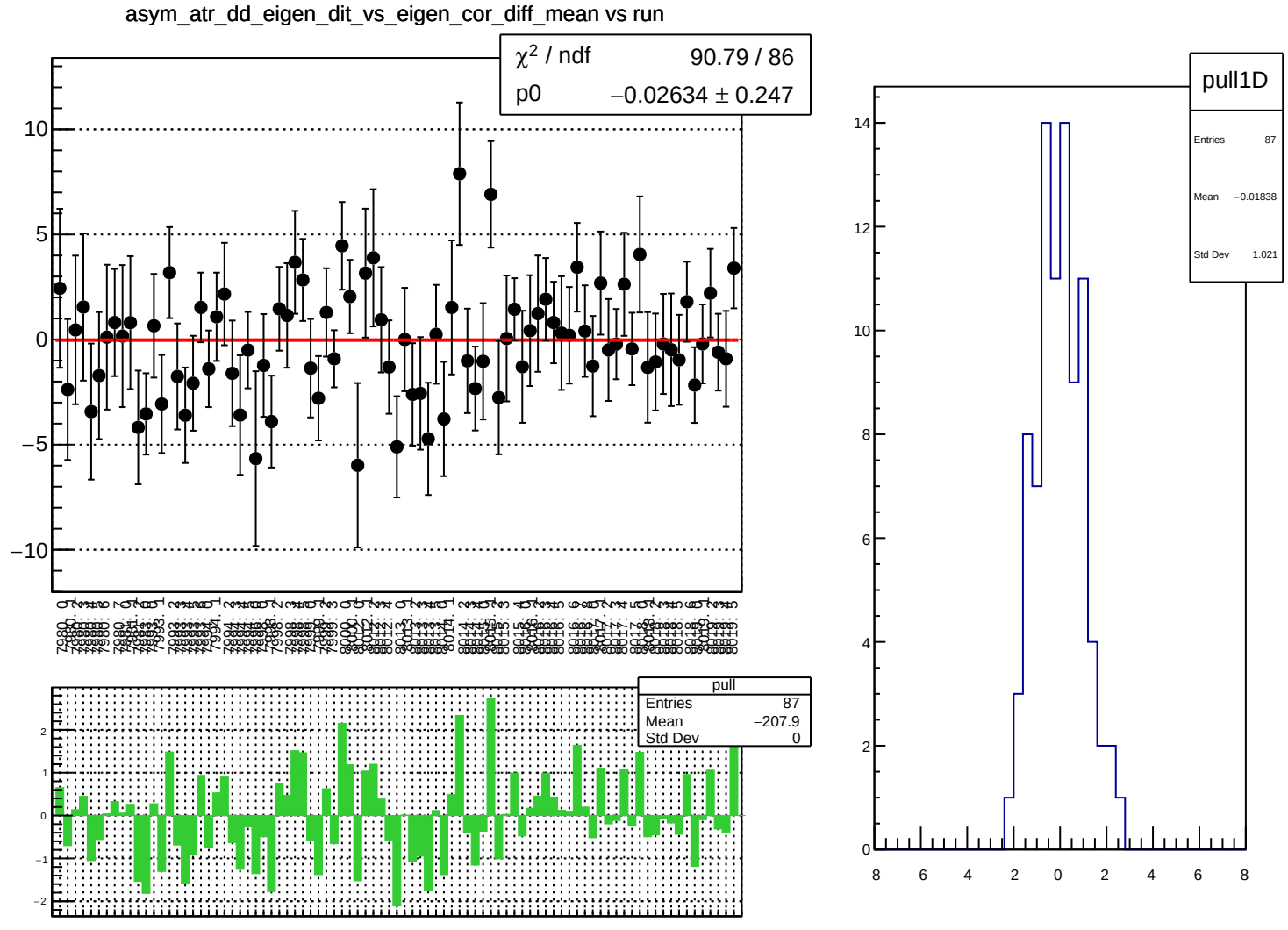

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.312e+04 / 86
p0 227.5 ± 0.1746
500
450
400
350
300
250
200
150

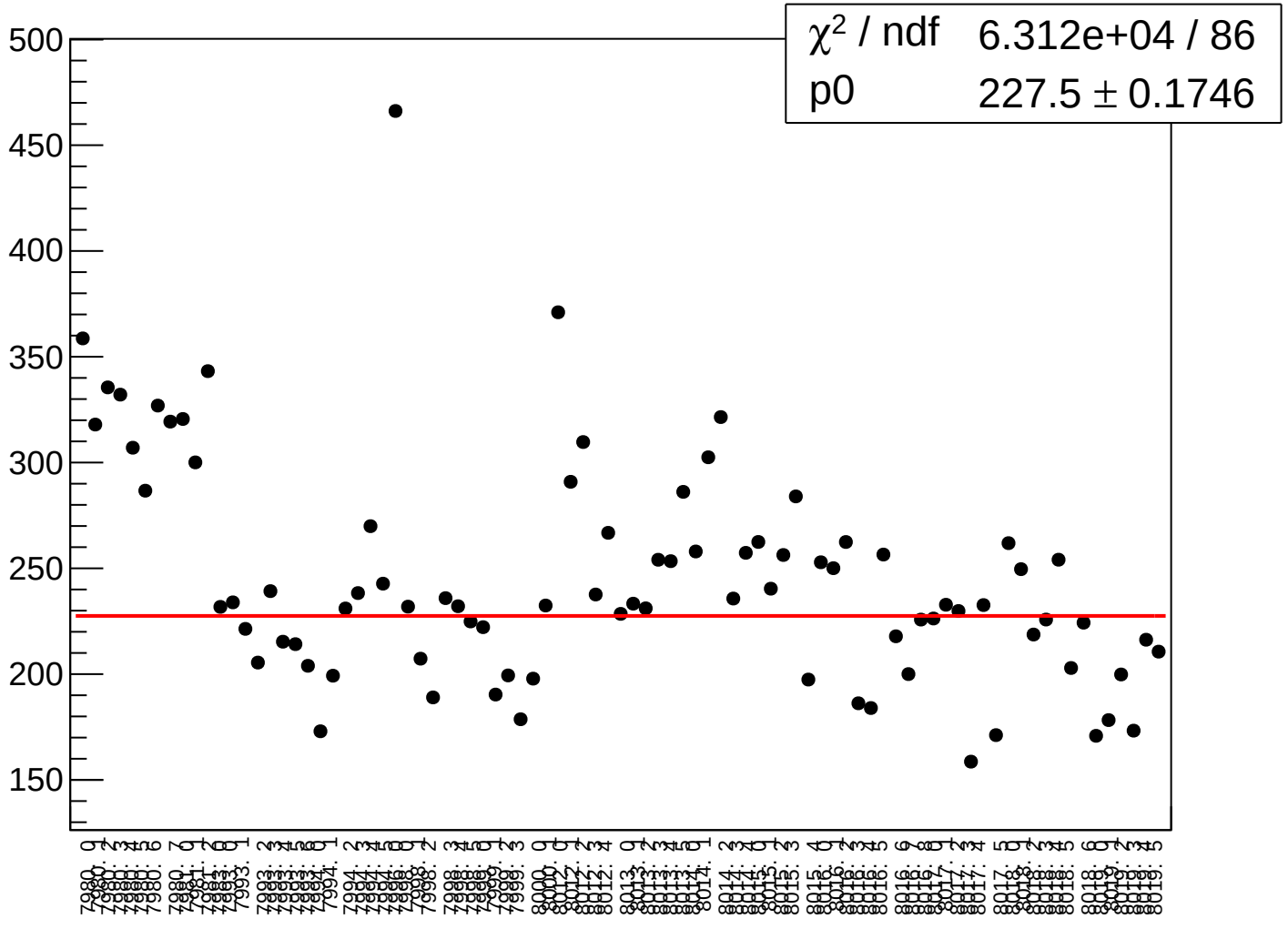

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.15 / 86
p0 2.784e−05 ± 1.422e−05
pull
Entries 87
Mean 78.28
Std Dev 0
pull1D
Entries 87
Mean −0.0154
Std Dev 1.023

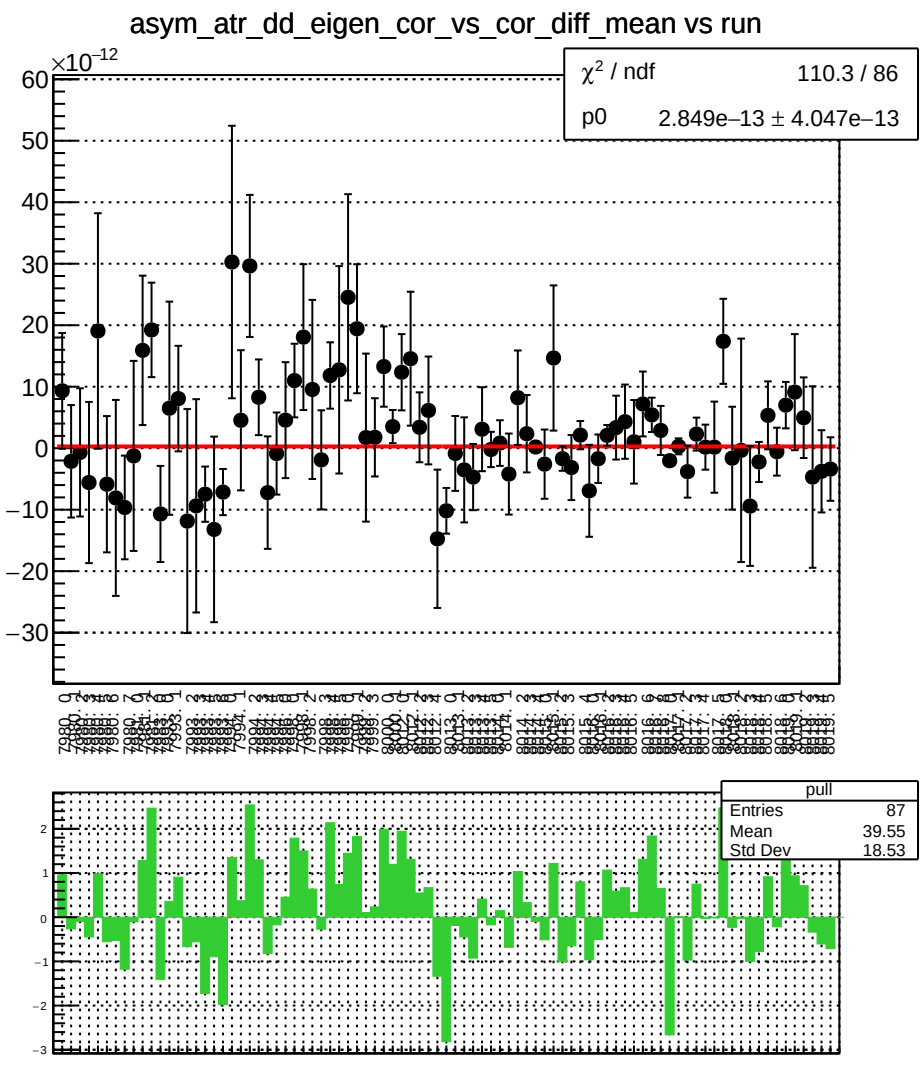

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4338 / 86
p0 0.01332 ± 1.005e−05
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012

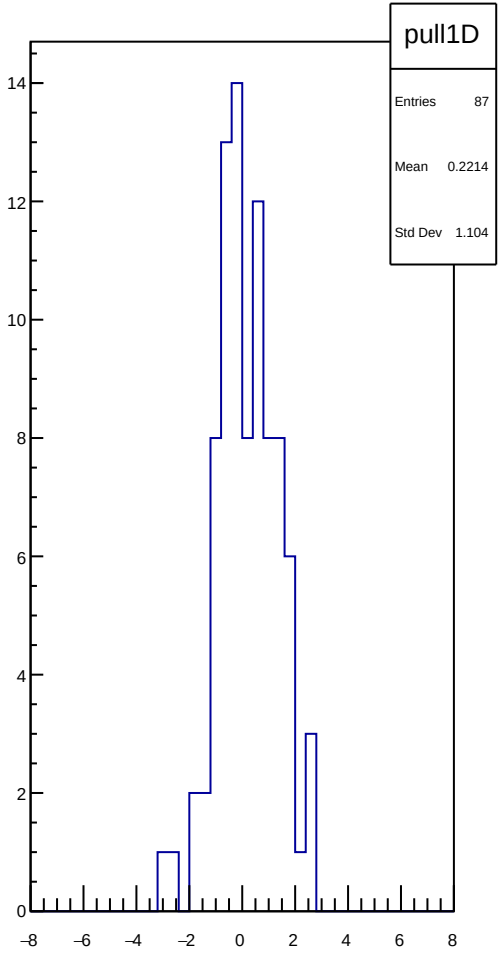

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.79 / 86
p0 −0.02634 ± 0.247
pull
Entries 87
Mean −207.9
Std Dev 0
pull1D
Entries 87
Mean −0.01838
Std Dev 1.021

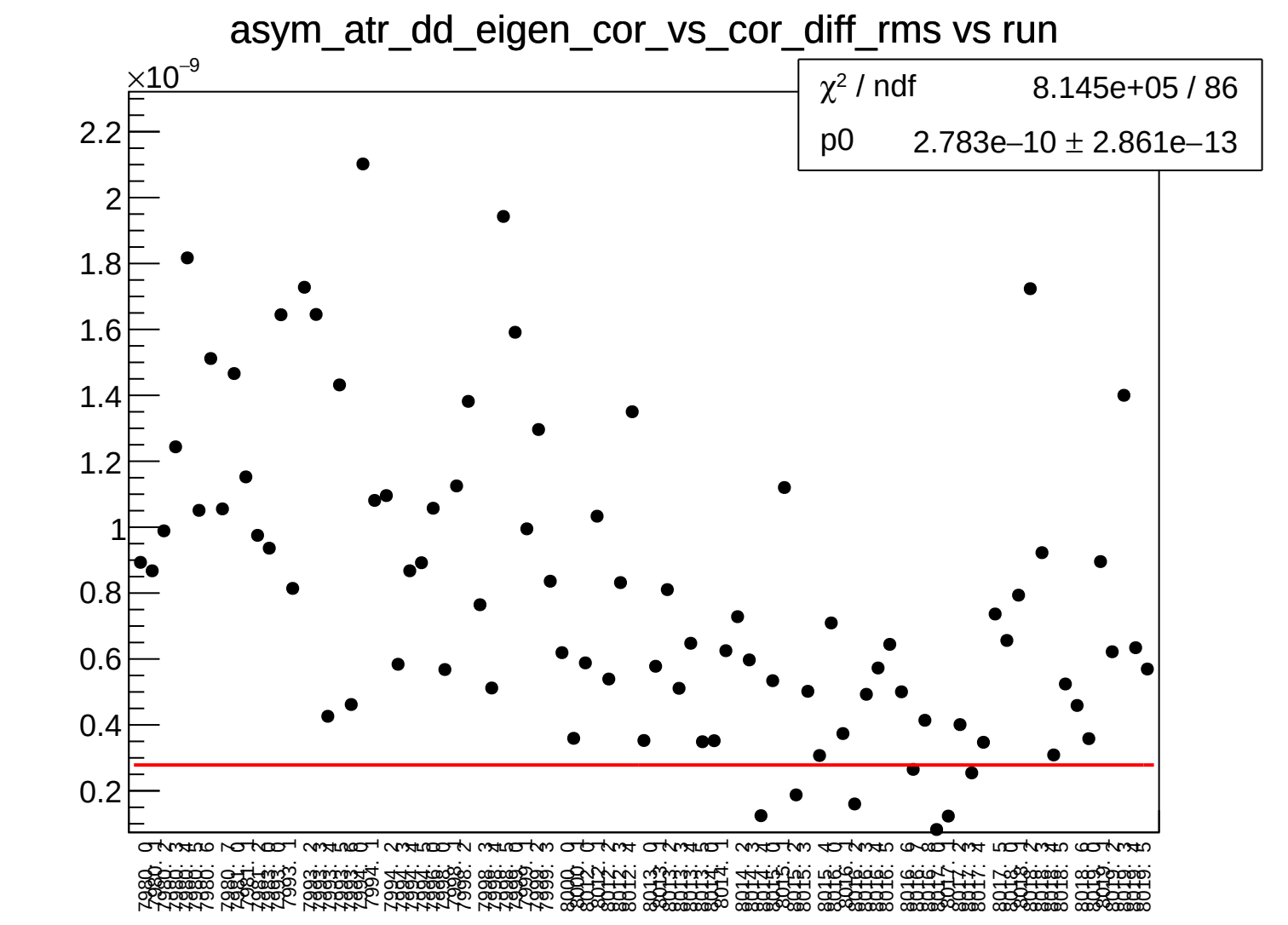

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.312e+04 / 86
p0 227.5 ± 0.1746
500
450
400
350
300
250
200
150

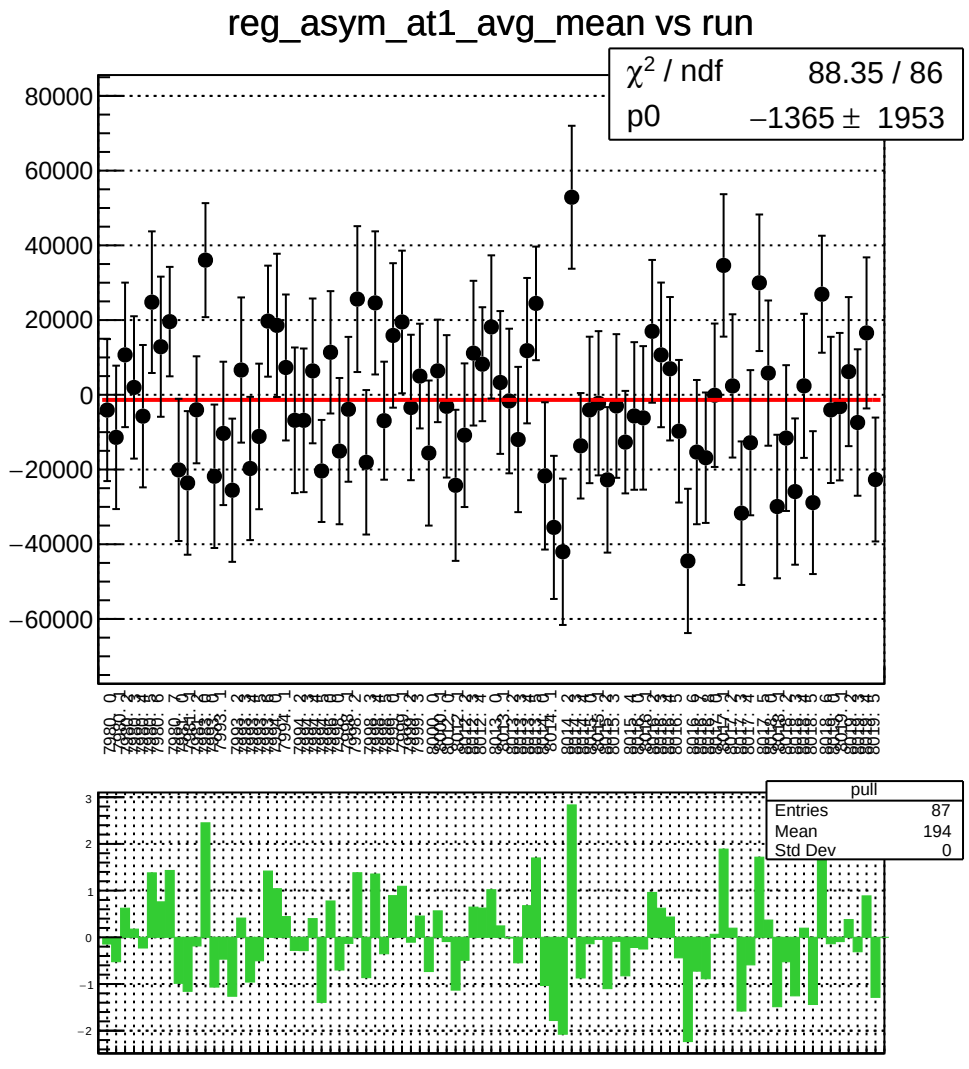

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.79 / 86
p0 −0.02634 ± 0.247
pull
Entries 87
Mean −207.9
Std Dev 0
pull1D
Entries 87
Mean −0.01838
Std Dev 1.021

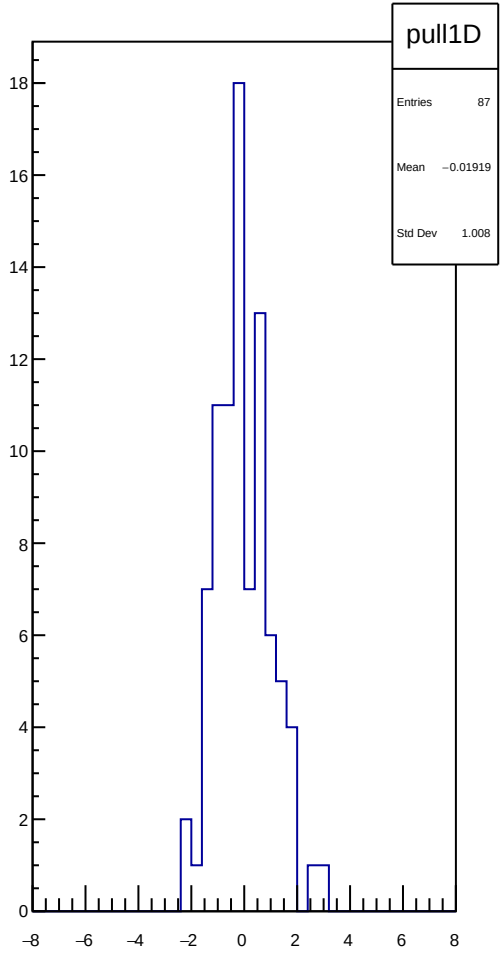

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.312e+04 / 86
p0 227.5 ± 0.1746
500
450
400
350
300
250
200
150

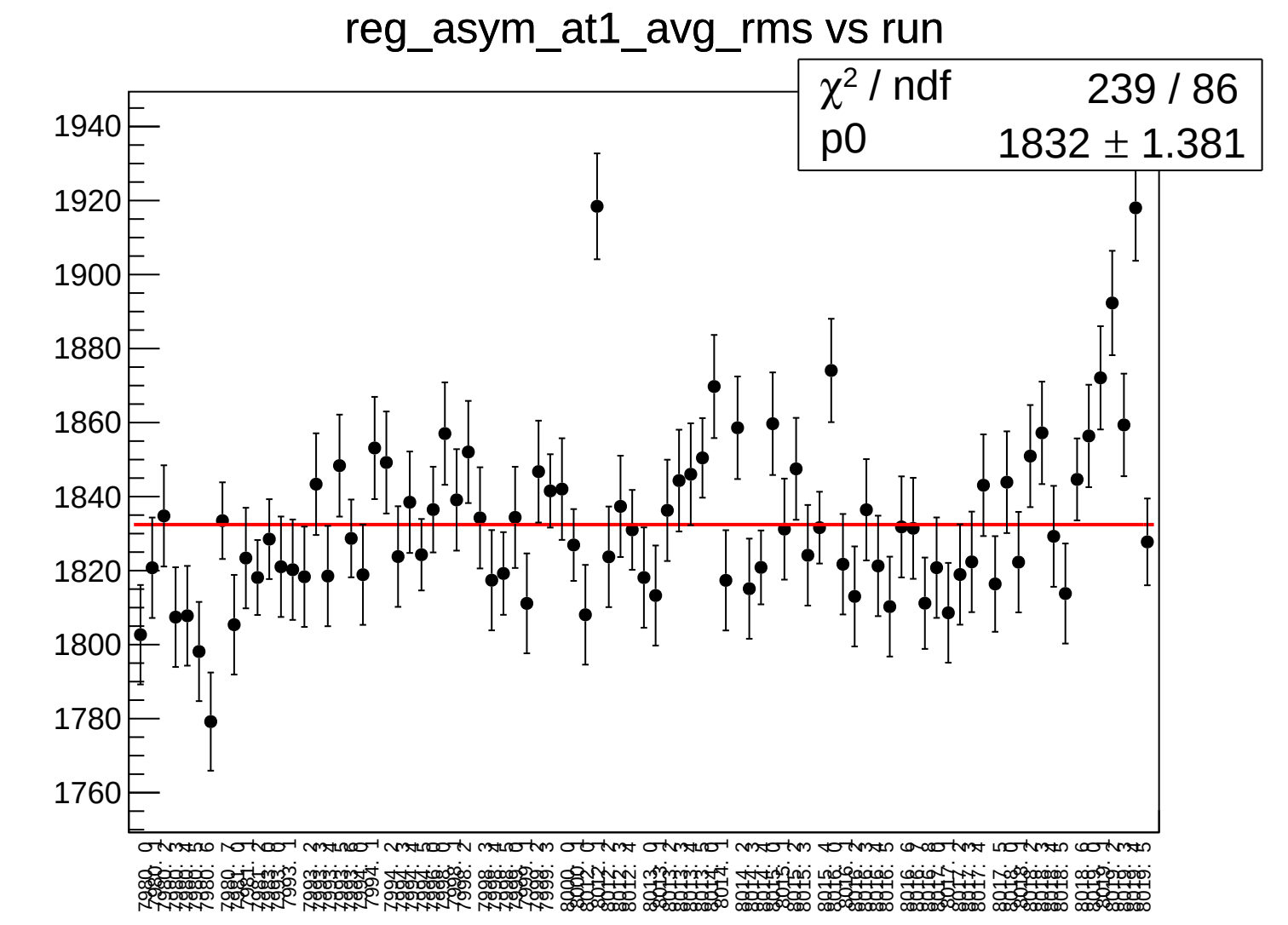

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.3 / 86
p0 2.849e−13 ± 4.047e−13
pull
Entries 87
Mean 39.55
Std Dev 18.53

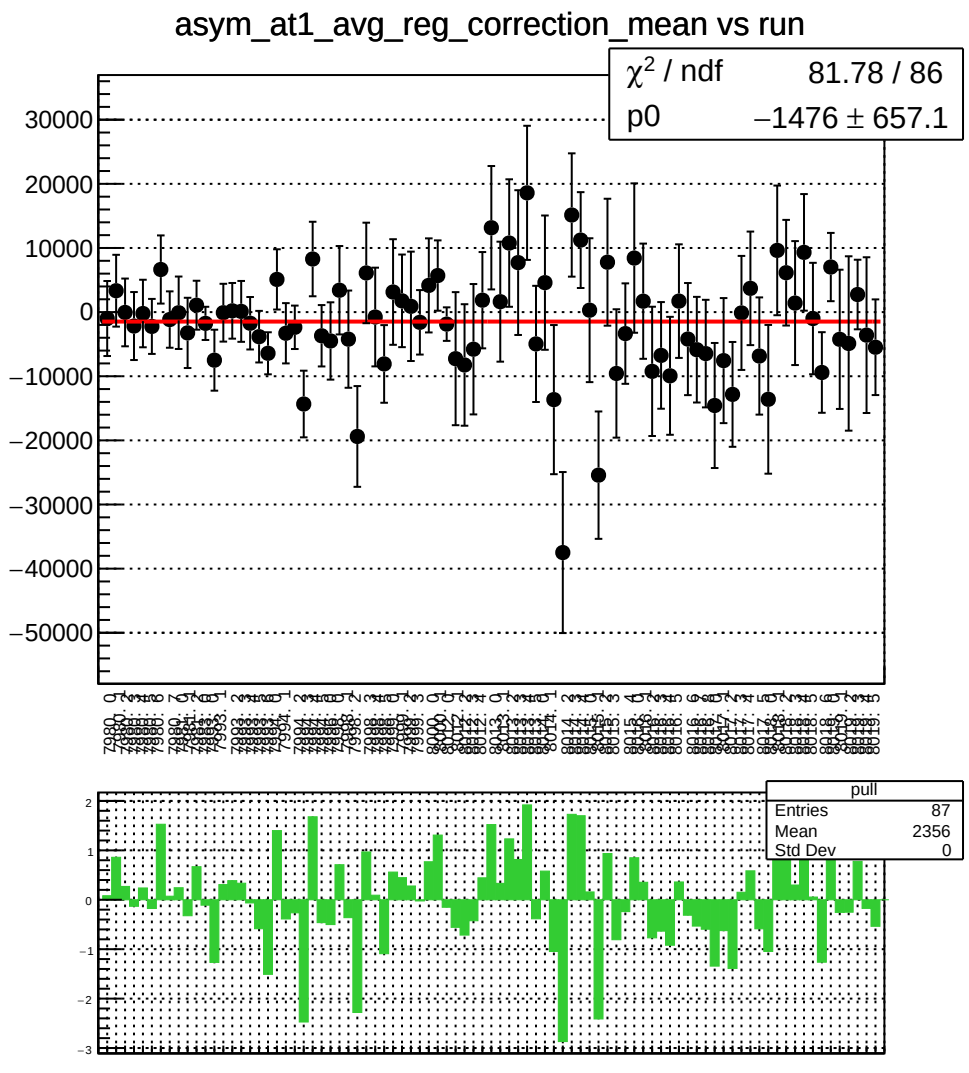

pull1D
Entries 87
Mean 0.2214
Std Dev 1.104

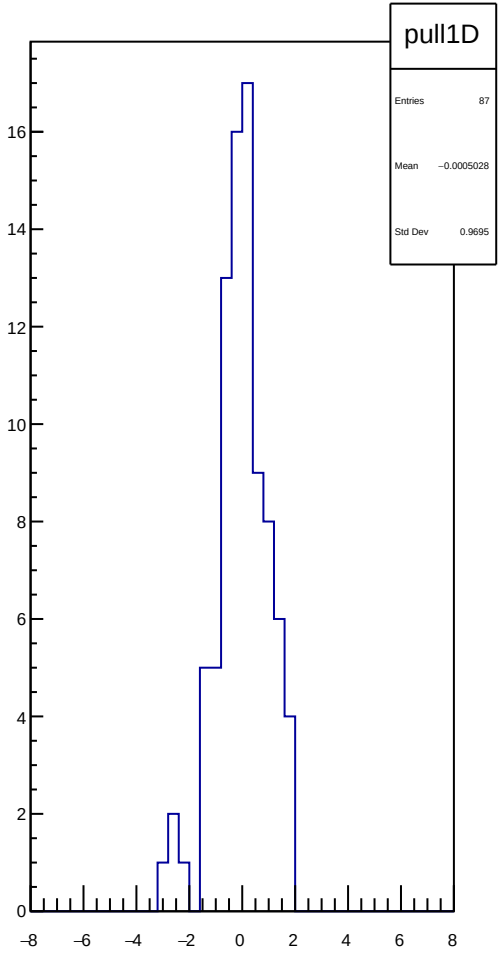

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.145e+05 / 86
p0 2.783e−10 ± 2.861e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

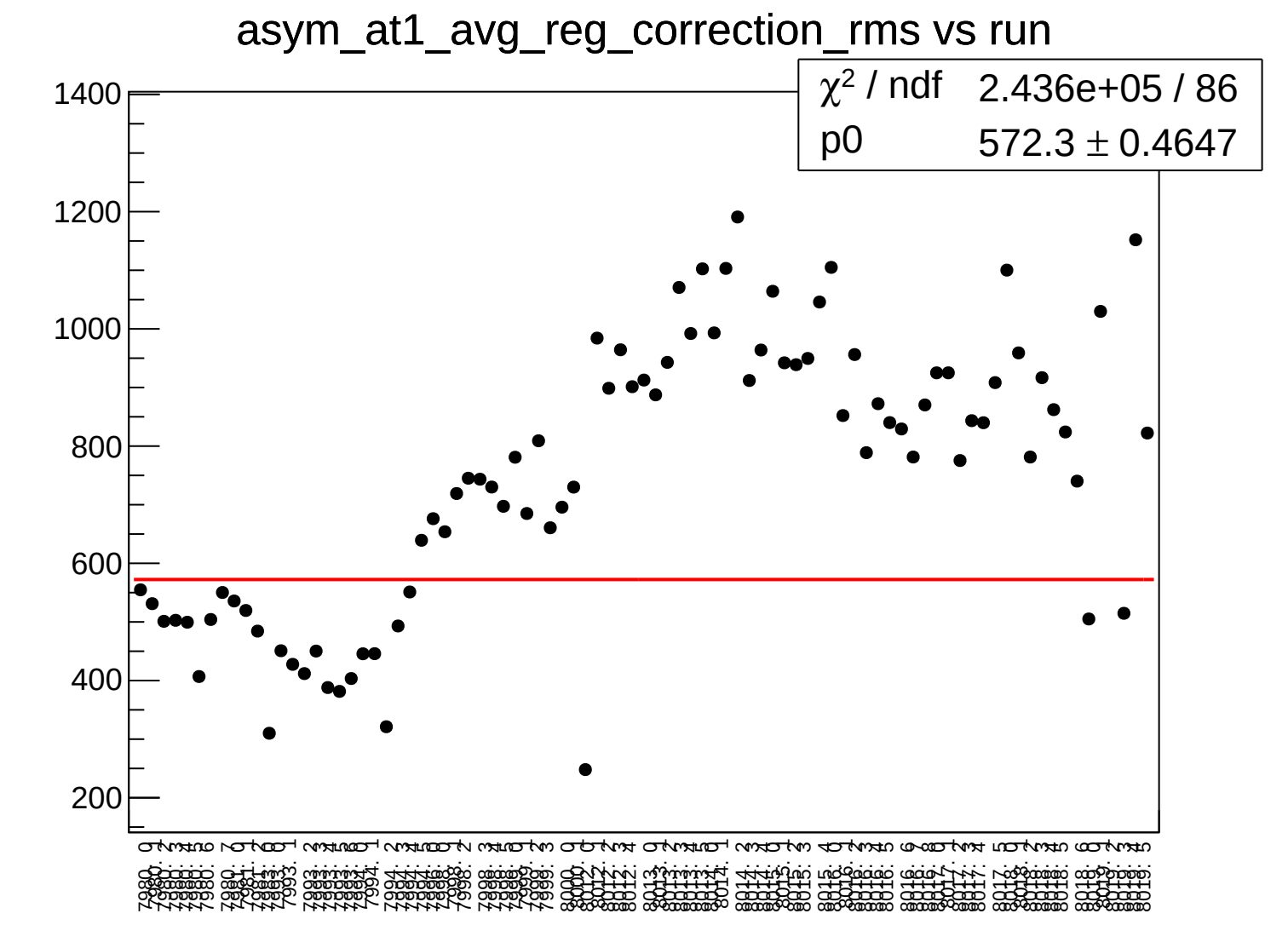

reg_asym_at1_avg_mean vs run
χ² / ndf 88.35 / 86
p0 −1365 ± 1953
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 194
Std Dev 0
3
2
1
0
−1
−2

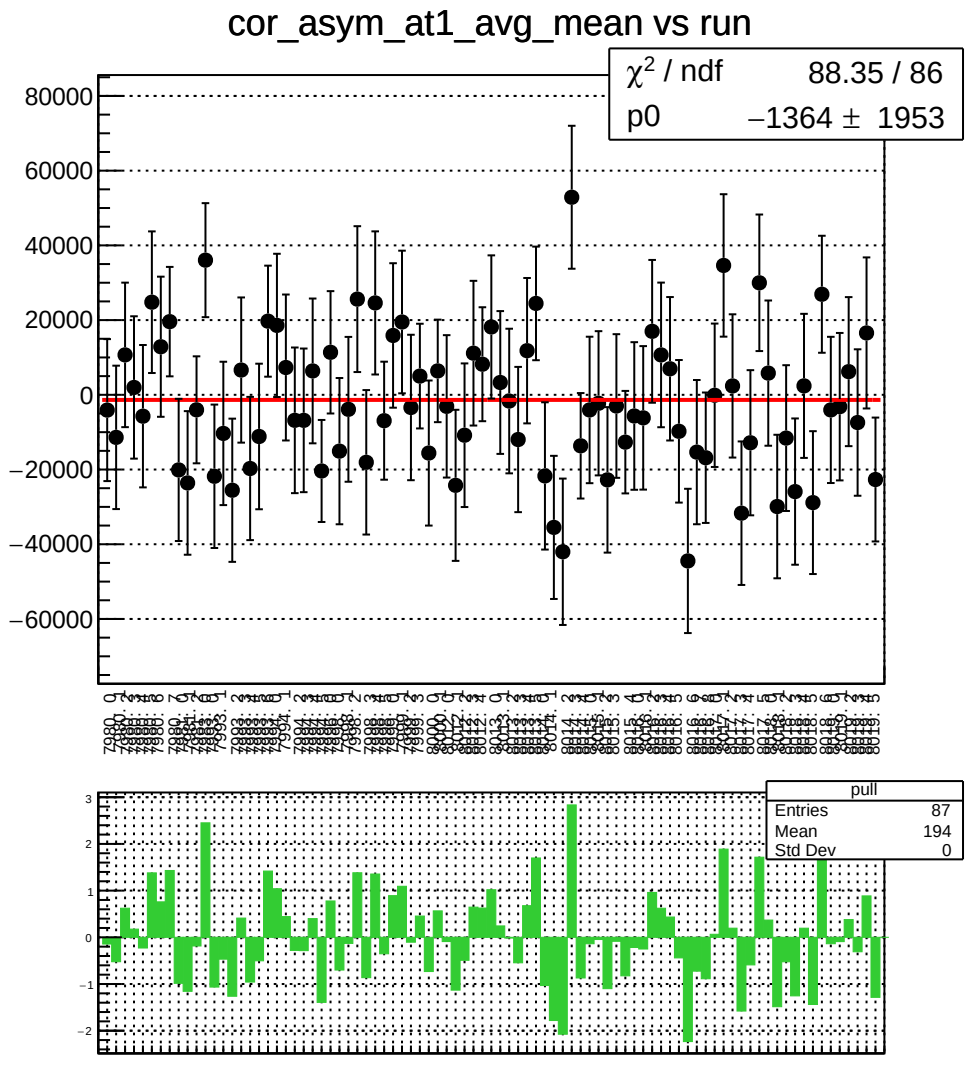

pull1D
Entries 87
Mean −0.01919
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

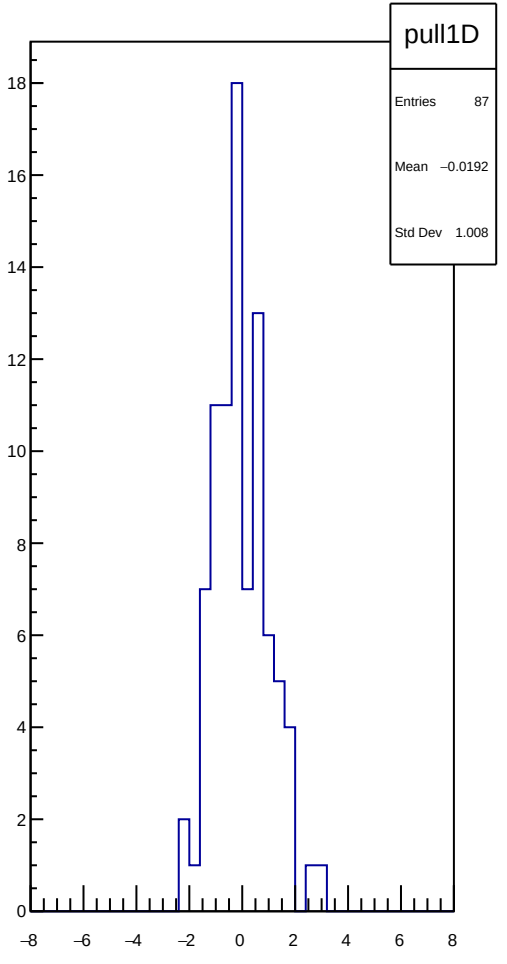

reg_asym_at1_avg_rms vs run
χ² / ndf 239 / 86
p0 1832 ± 1.381
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

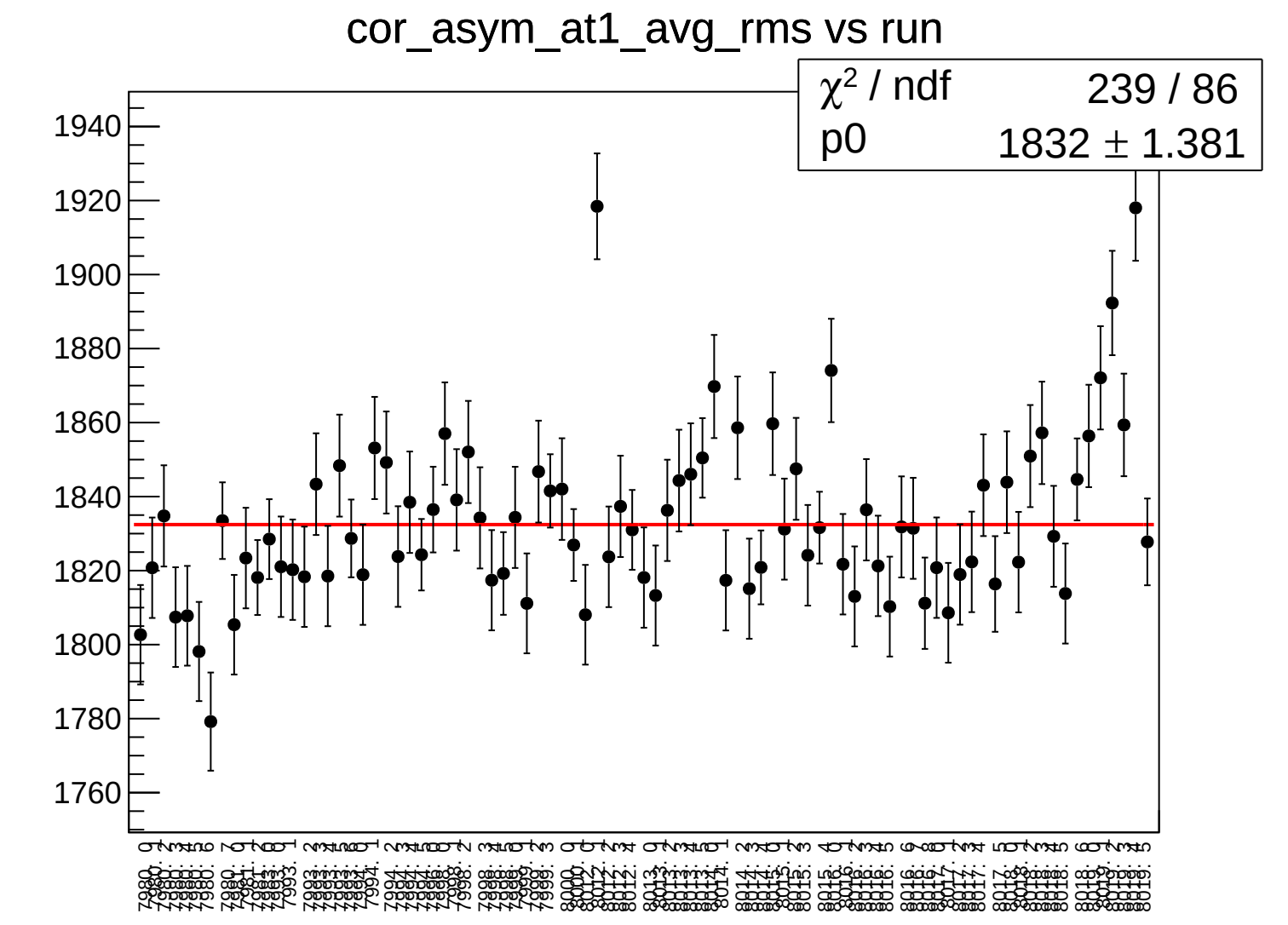

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 81.78 / 86
p0 −1476 ± 657.1
pull
Entries 87
Mean 2356
Std Dev 0

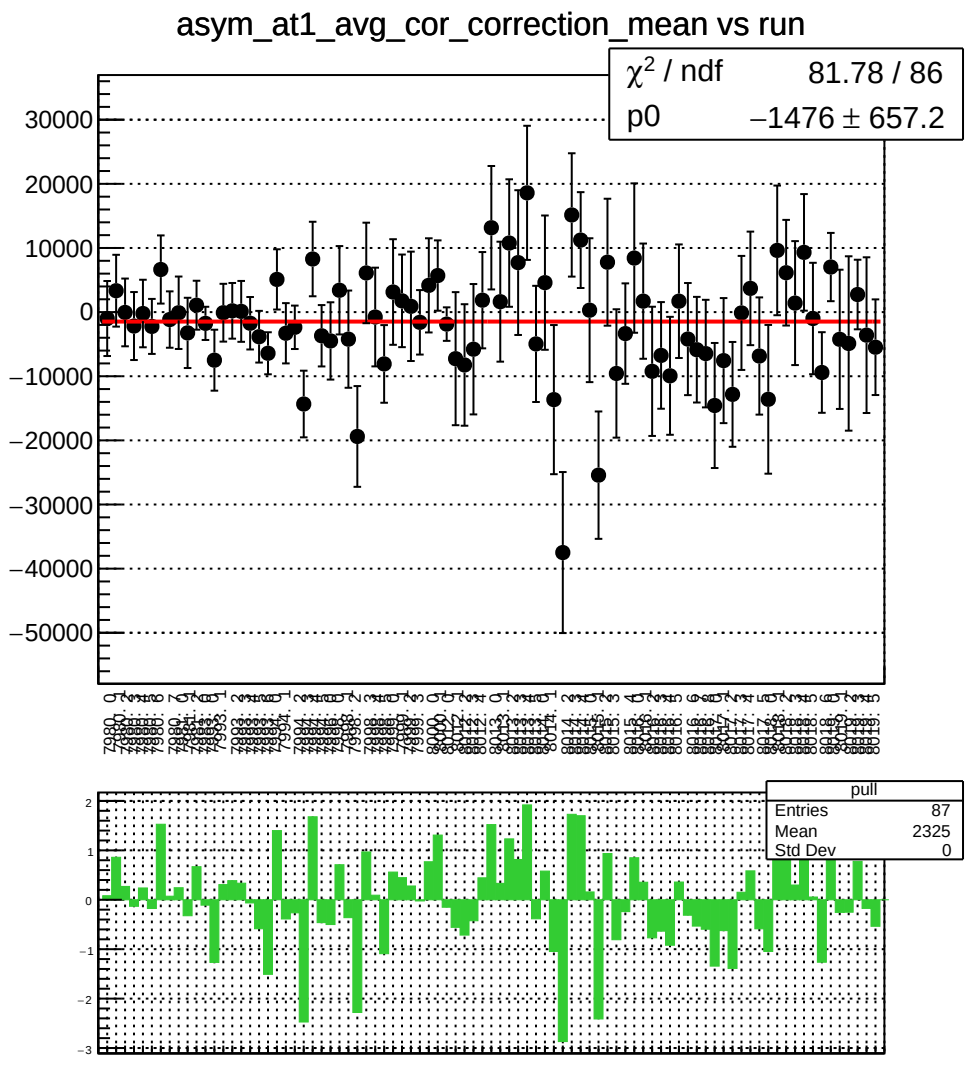

pull1D
Entries 87
Mean −0.0005028
Std Dev 0.9695

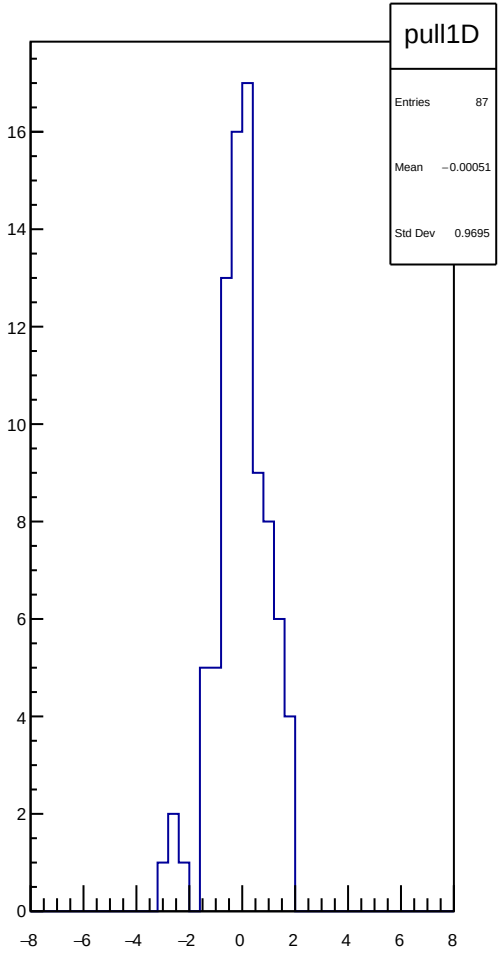

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.436e+05 / 86
p0 572.3 ± 0.4647
1400
1200
1000
800
600
400
200

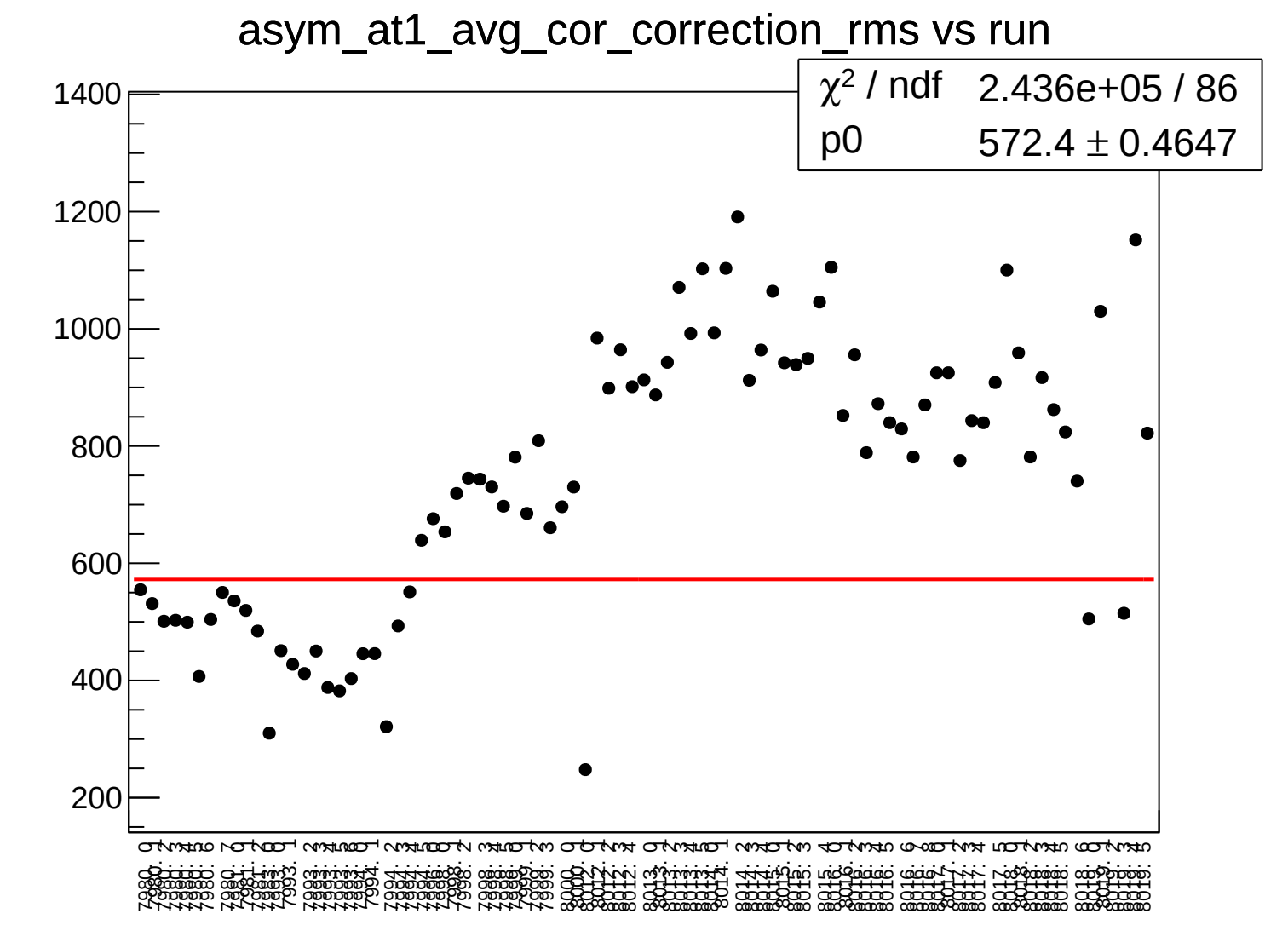

cor_asym_at1_avg_mean vs run
χ² / ndf 88.35 / 86
p0 −1364 ± 1953
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 194
Std Dev 0
3
2
1
0
−1
−2

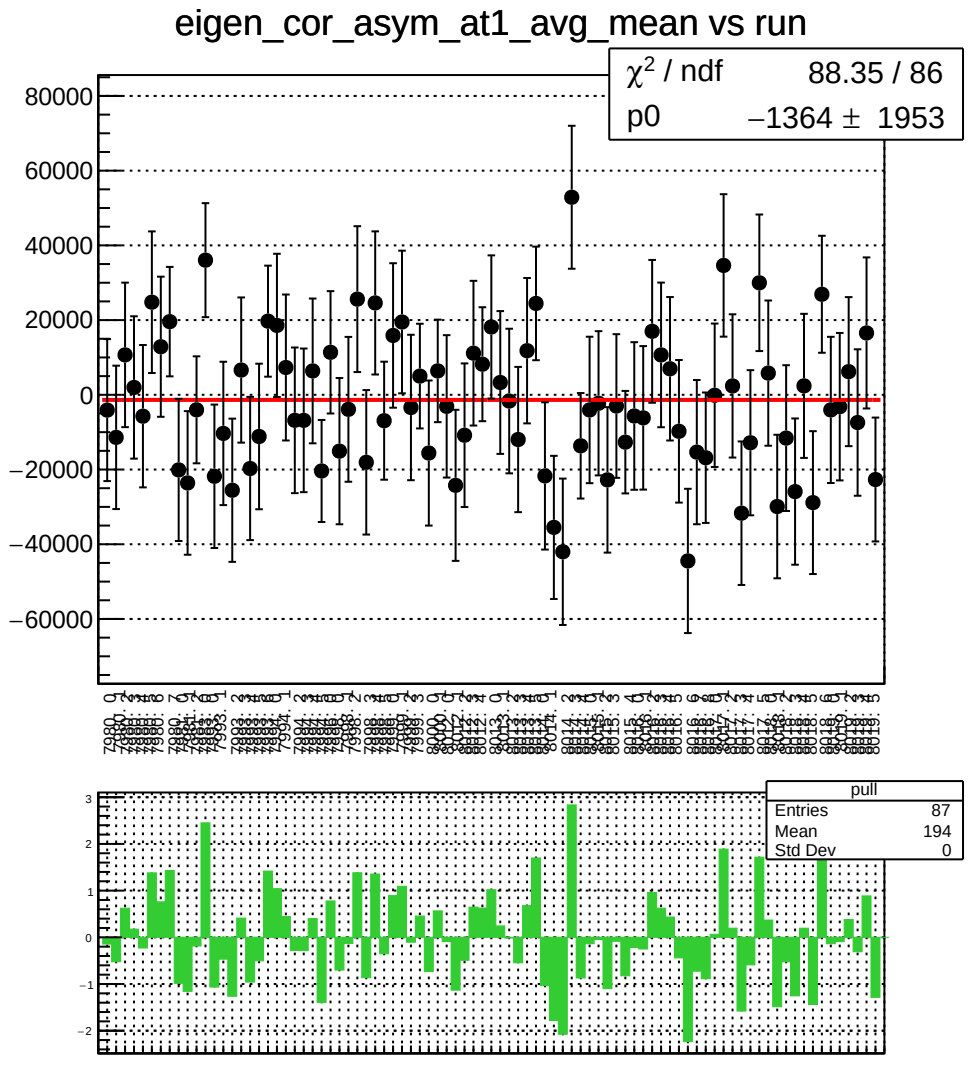

pull1D
Entries 87
Mean −0.0192
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

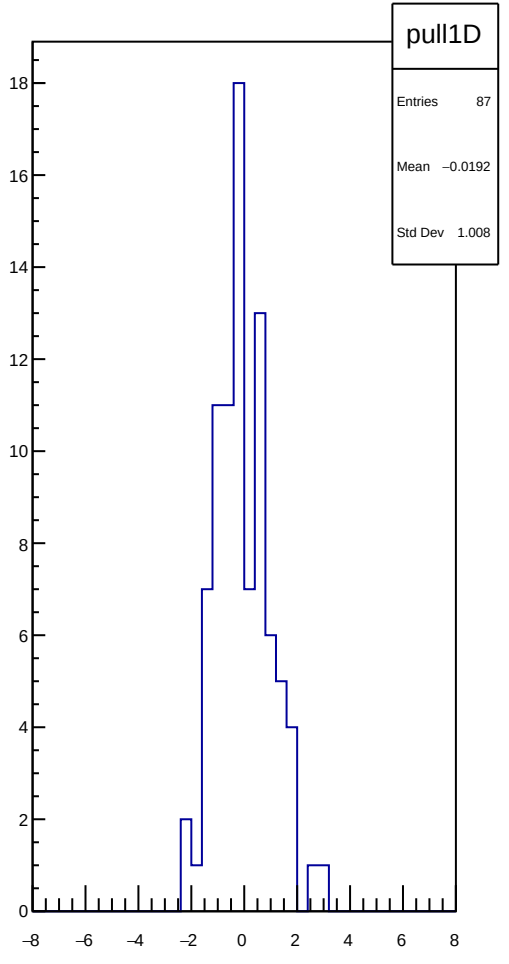

cor_asym_at1_avg_rms vs run
χ² / ndf 239 / 86
p0 1832 ± 1.381
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

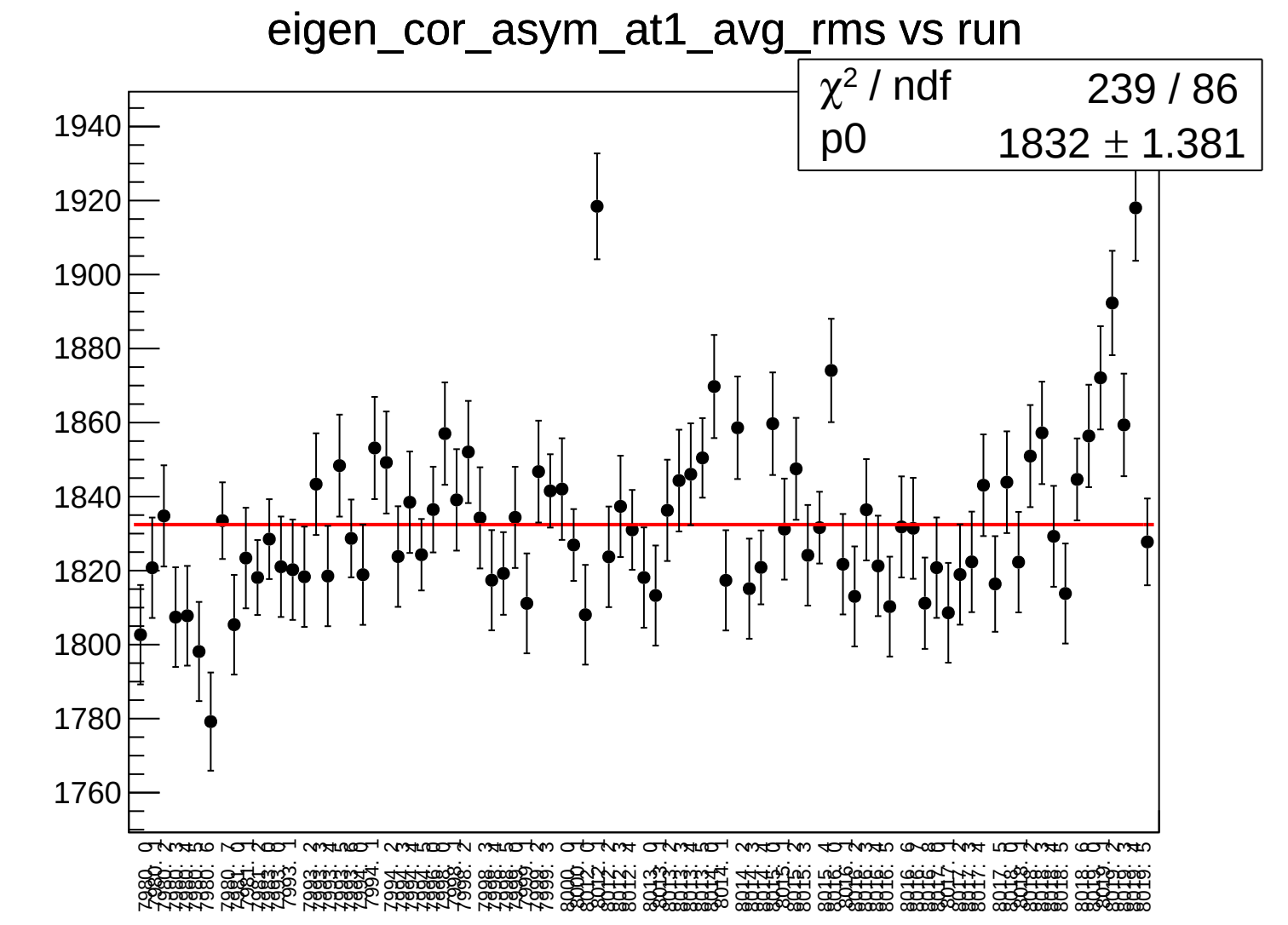

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 81.78 / 86
p0 −1476 ± 657.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 87
Mean 2325
Std Dev 0
2
1
0
−1
−2
−3

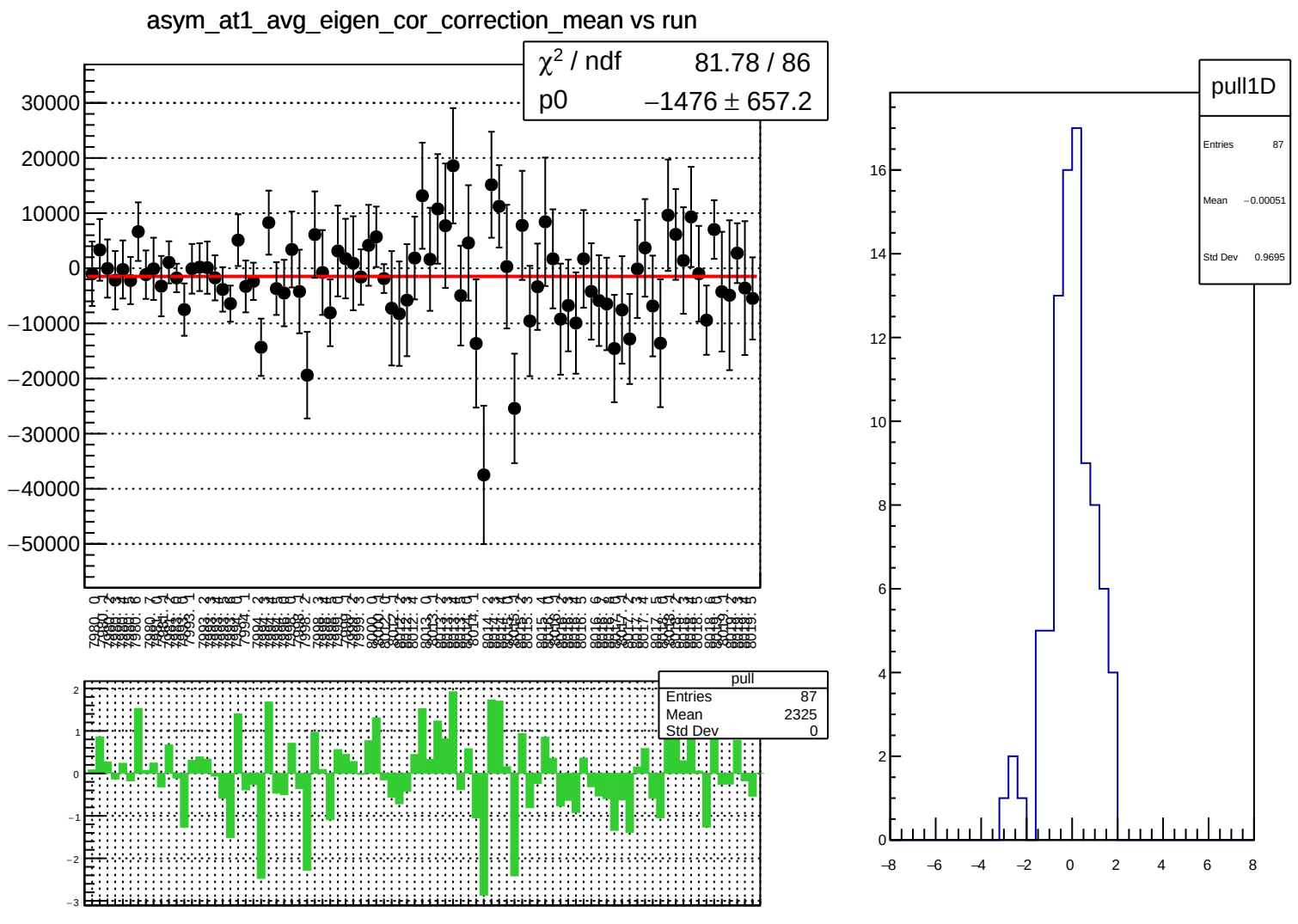

pull1D
Entries 87
Mean −0.00051
Std Dev 0.9695
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

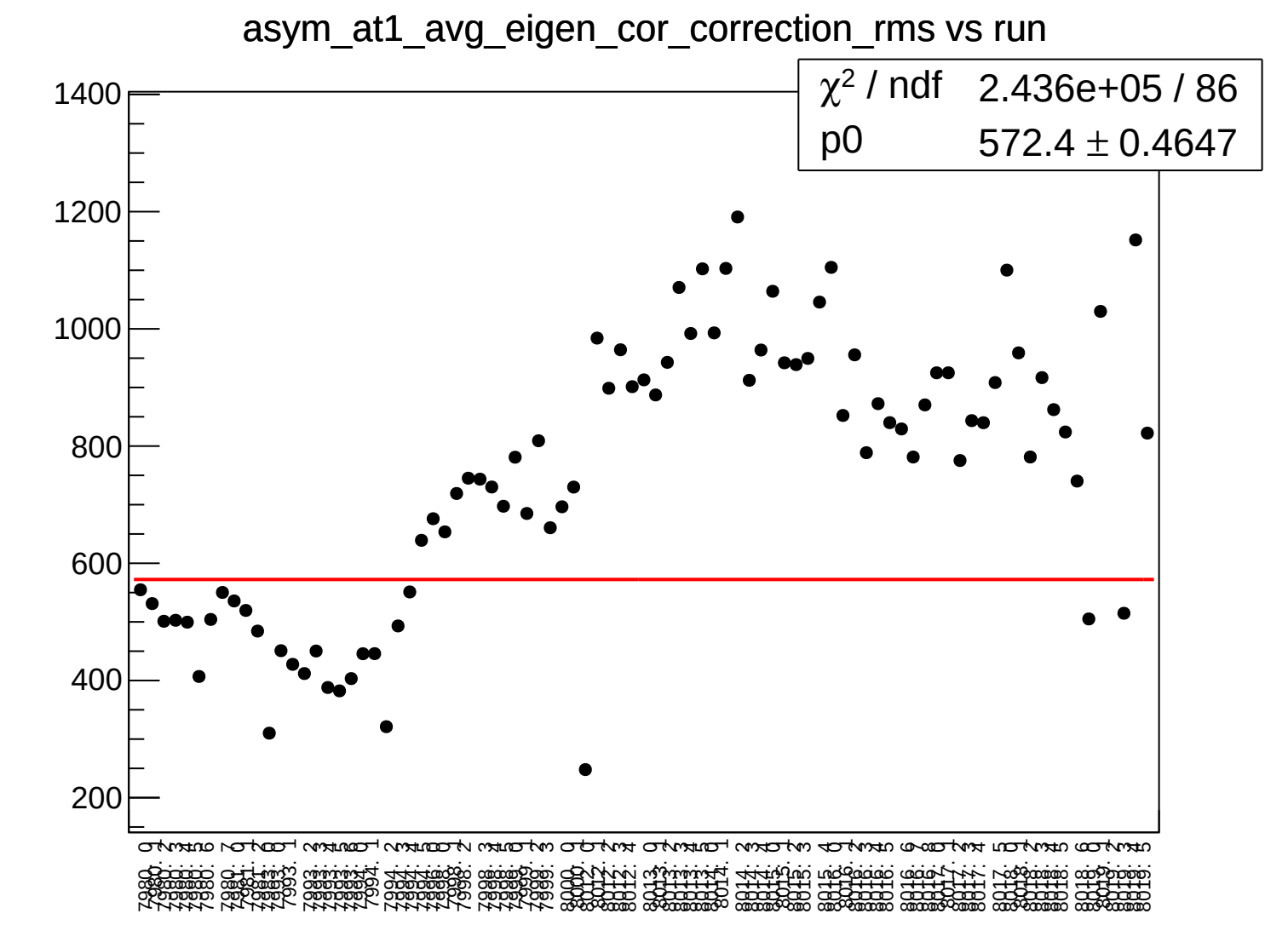

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.436e+05 / 86
p0 572.4 ± 0.4647
1400
1200
1000
800
600
400
200

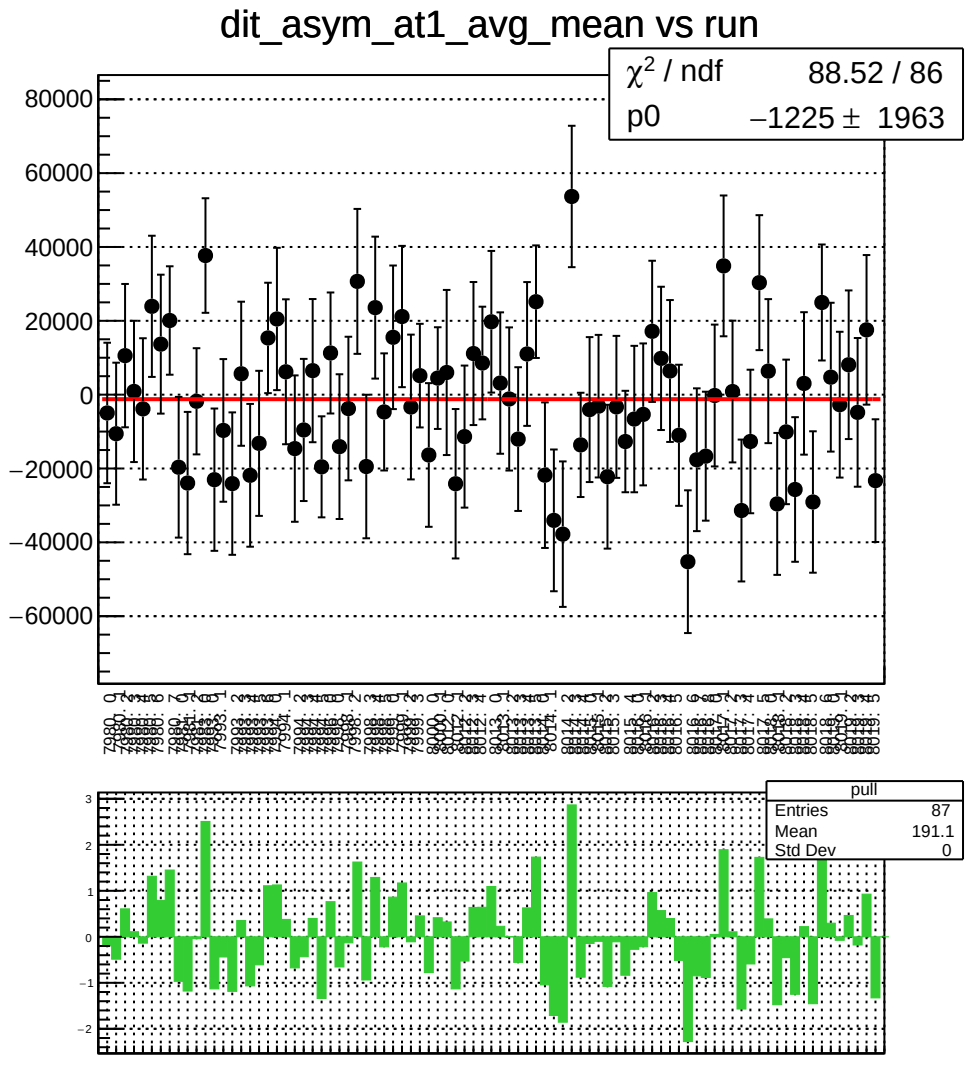

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 88.35 / 86
p0 −1364 ± 1953
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 194
Std Dev 0
3
2
1
0
−1
−2

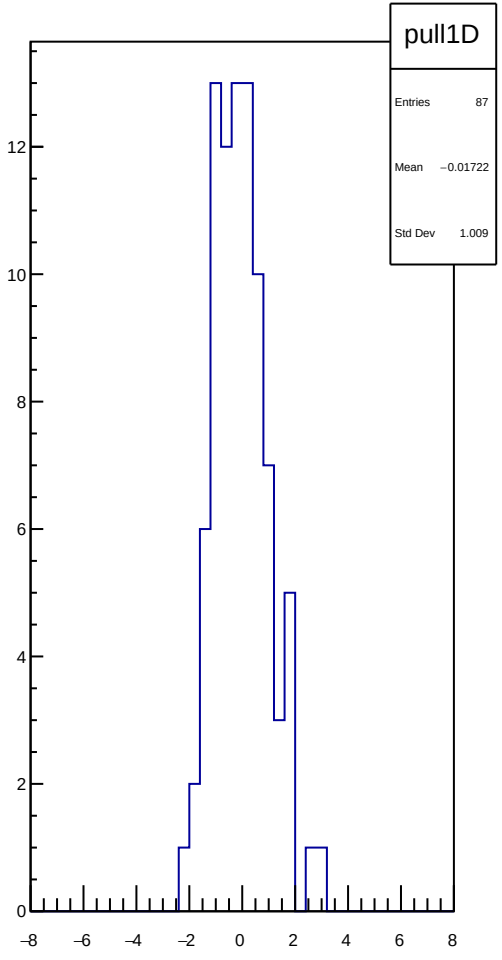

pull1D
Entries 87
Mean −0.0192
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

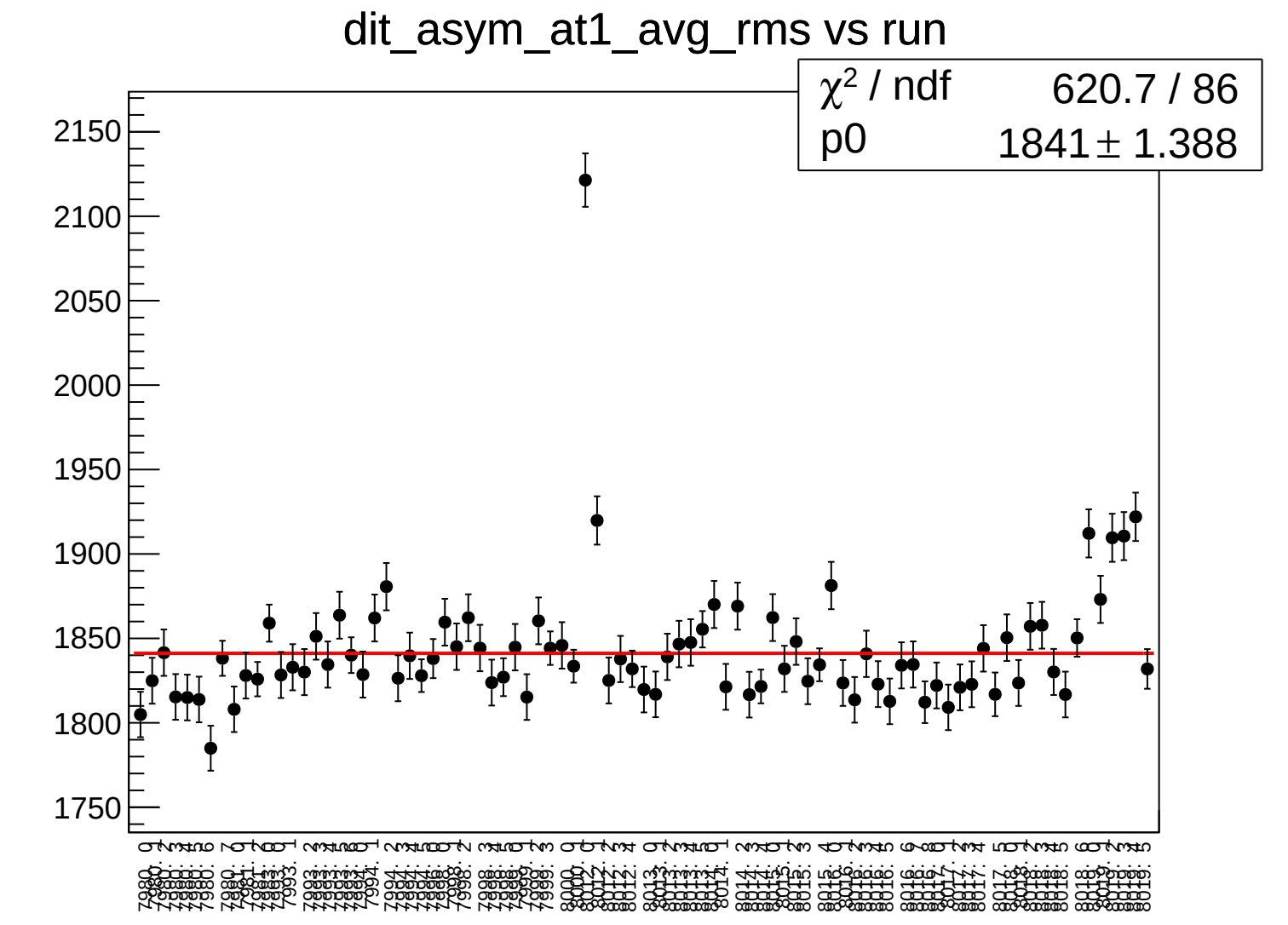

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 239 / 86
p0 1832 ± 1.381
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

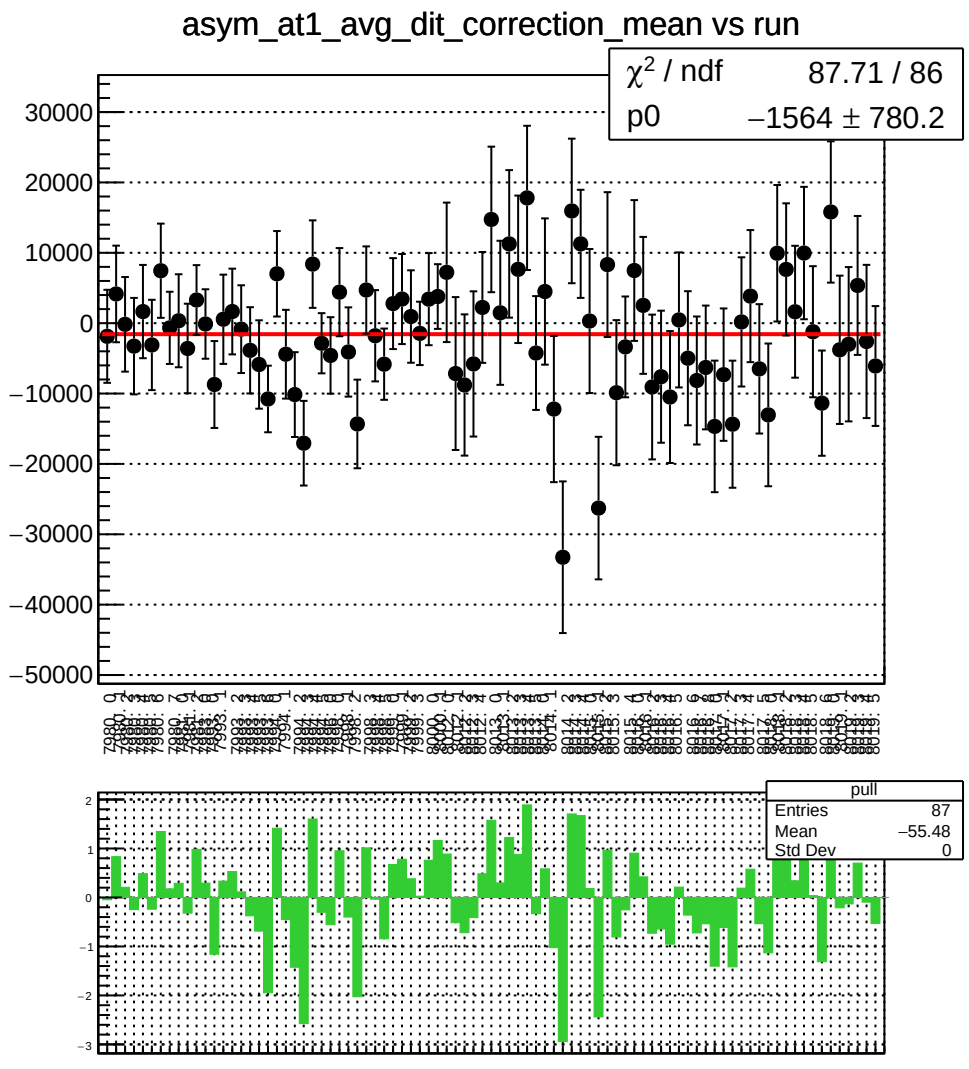

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.78 / 86
p0 −1476 ± 657.2
pull
Entries 87
Mean 2325
Std Dev 0
pull1D
Entries 87
Mean −0.00051
Std Dev 0.9695

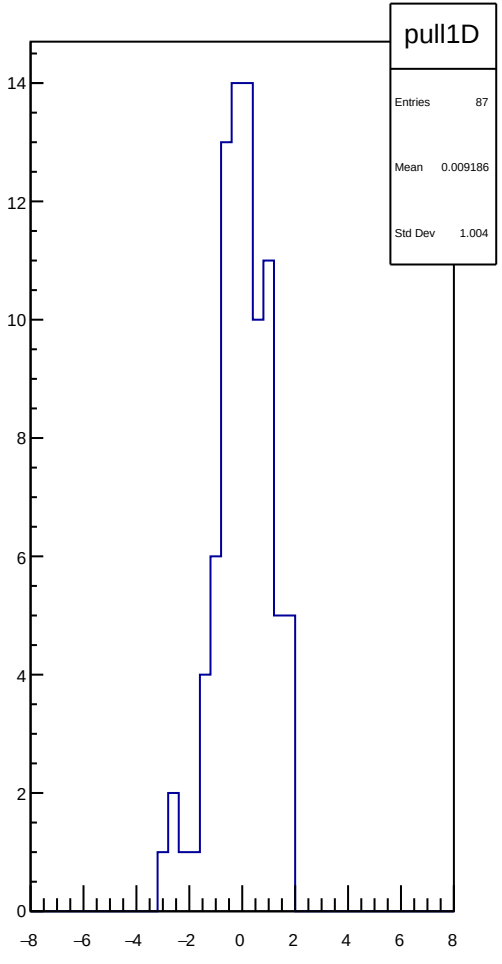

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.436e+05 / 86
p0 572.4 ± 0.4647
1400
1200
1000
800
600
400
200

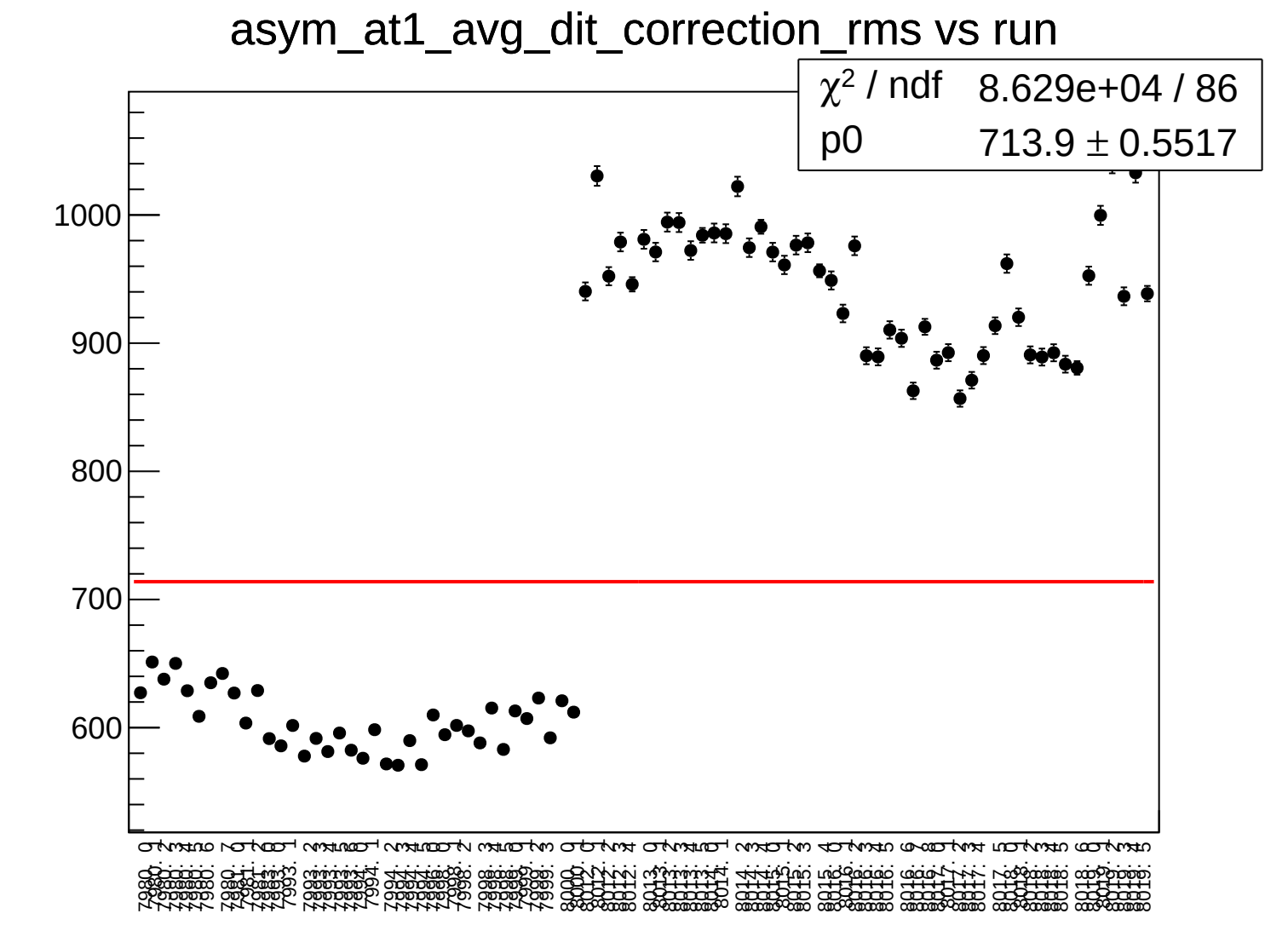

dit_asym_at1_avg_mean vs run
χ² / ndf 88.52 / 86
p0 −1225 ± 1963
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 191.1
Std Dev 0
3
2
1
0
−1
−2

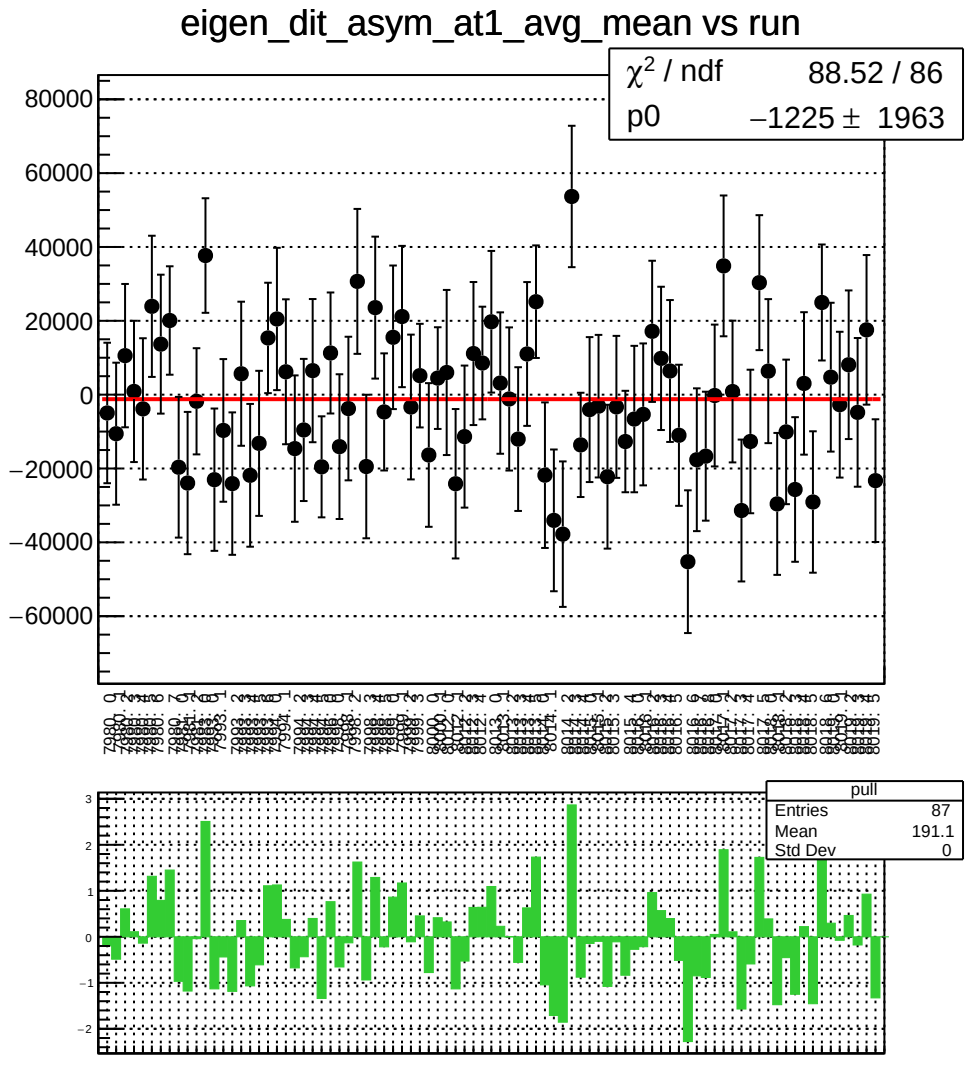

pull1D
Entries 87
Mean −0.01722
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

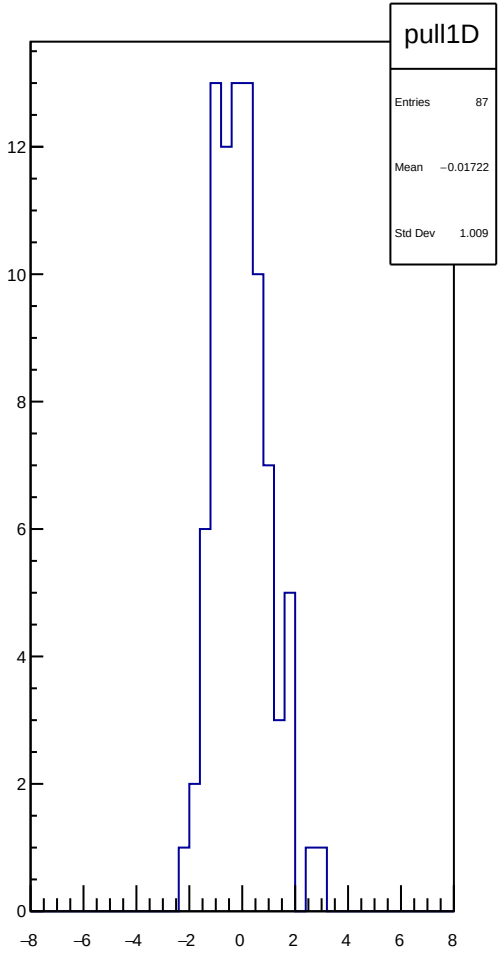

dit_asym_at1_avg_rms vs run
χ² / ndf 620.7 / 86
p0 1841 ± 1.388
2150
2100
2050
2000
1950
1900
1850
1800
1750

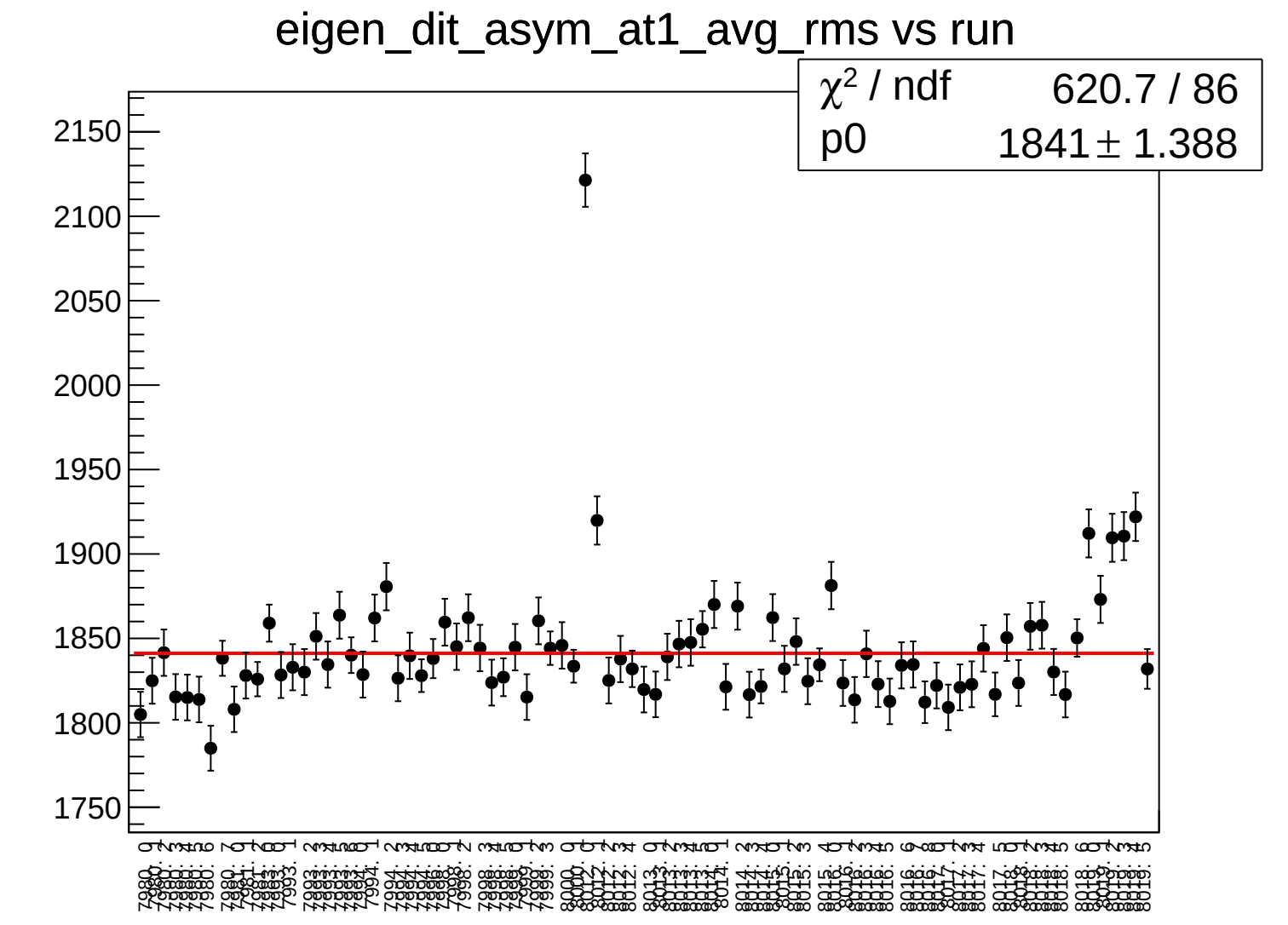

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 87.71 / 86
p0 −1564 ± 780.2
pull
Entries 87
Mean −55.48
Std Dev 0

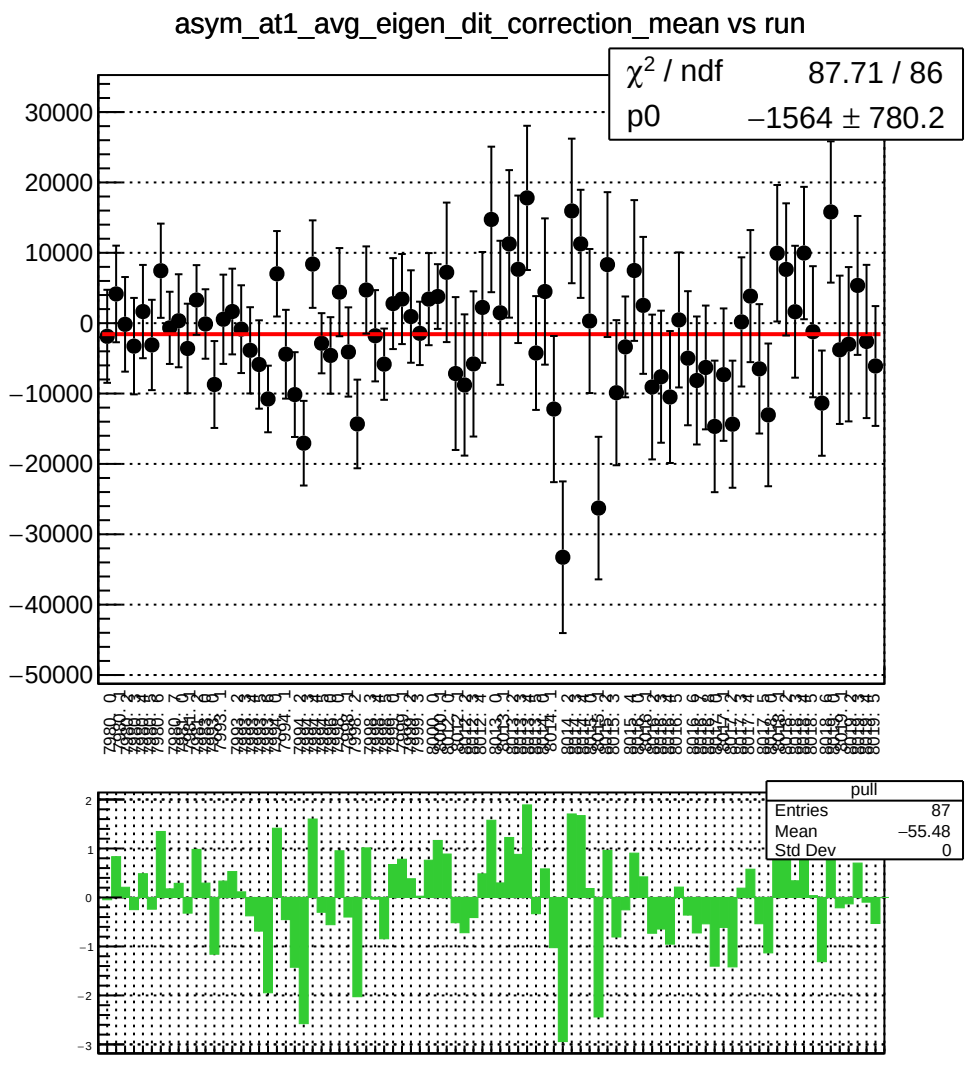

pull1D
Entries 87
Mean 0.009186
Std Dev 1.004

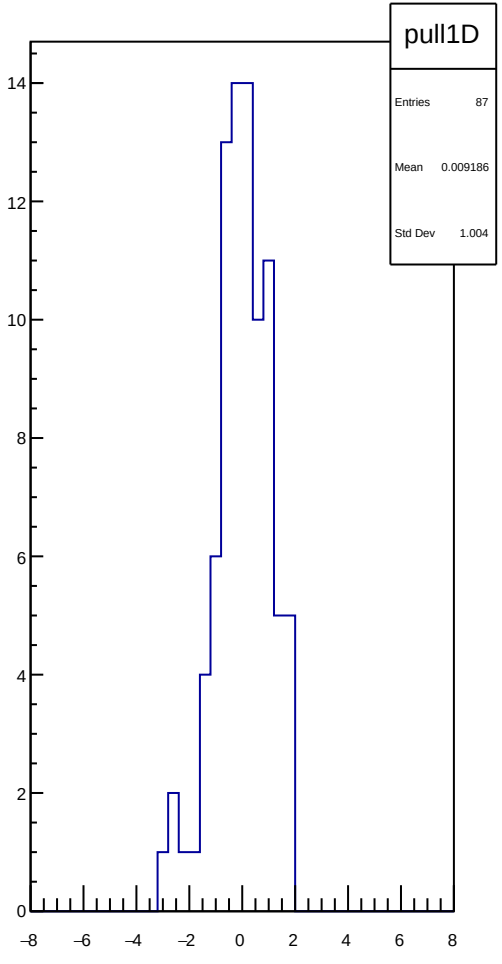

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 8.629e+04 / 86
p0 713.9 ± 0.5517
1000
900
800
700
600

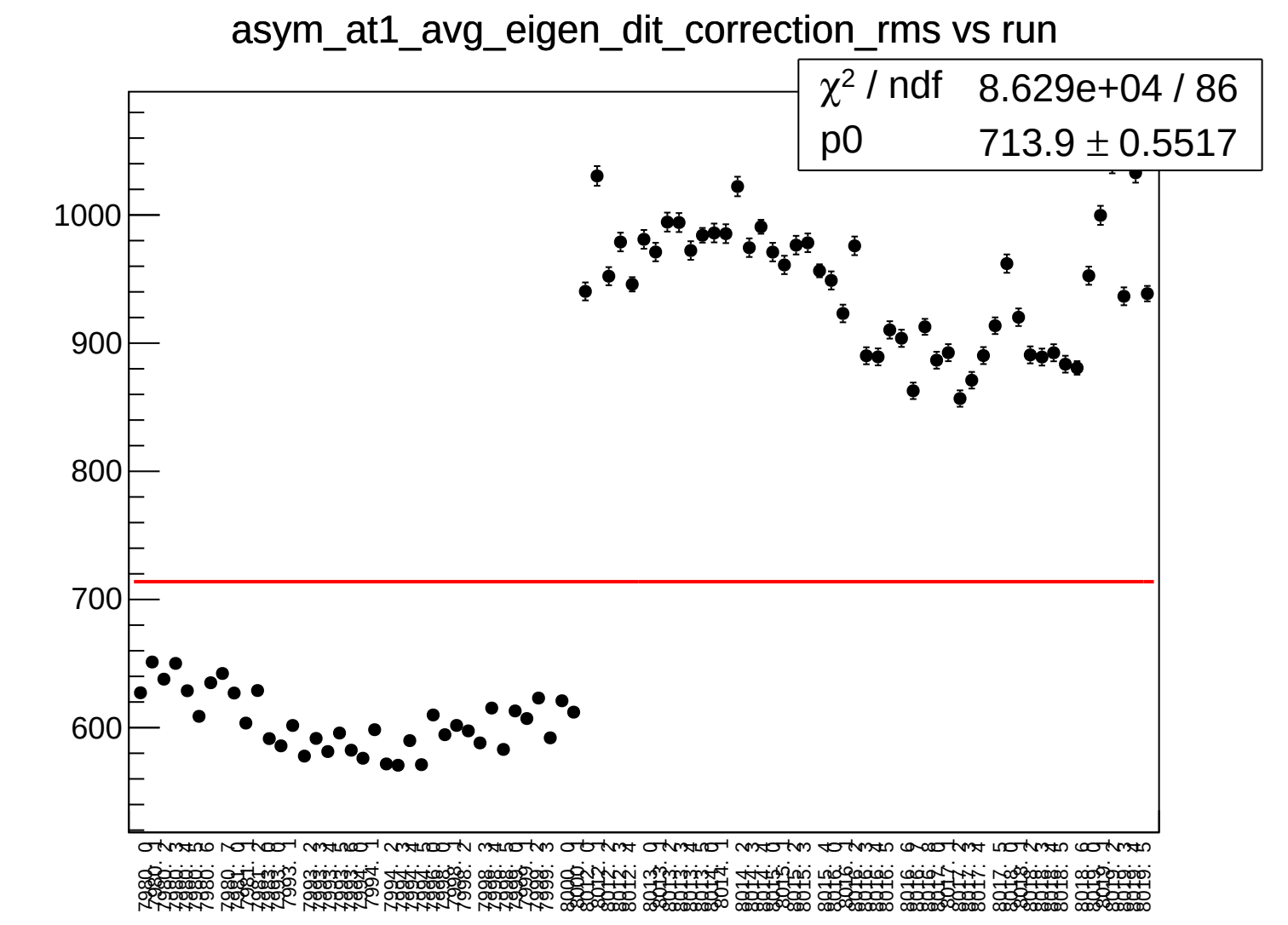

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 88.52 / 86
p0 −1225 ± 1963
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 191.1
Std Dev 0
3
2
1
0
−1
−2

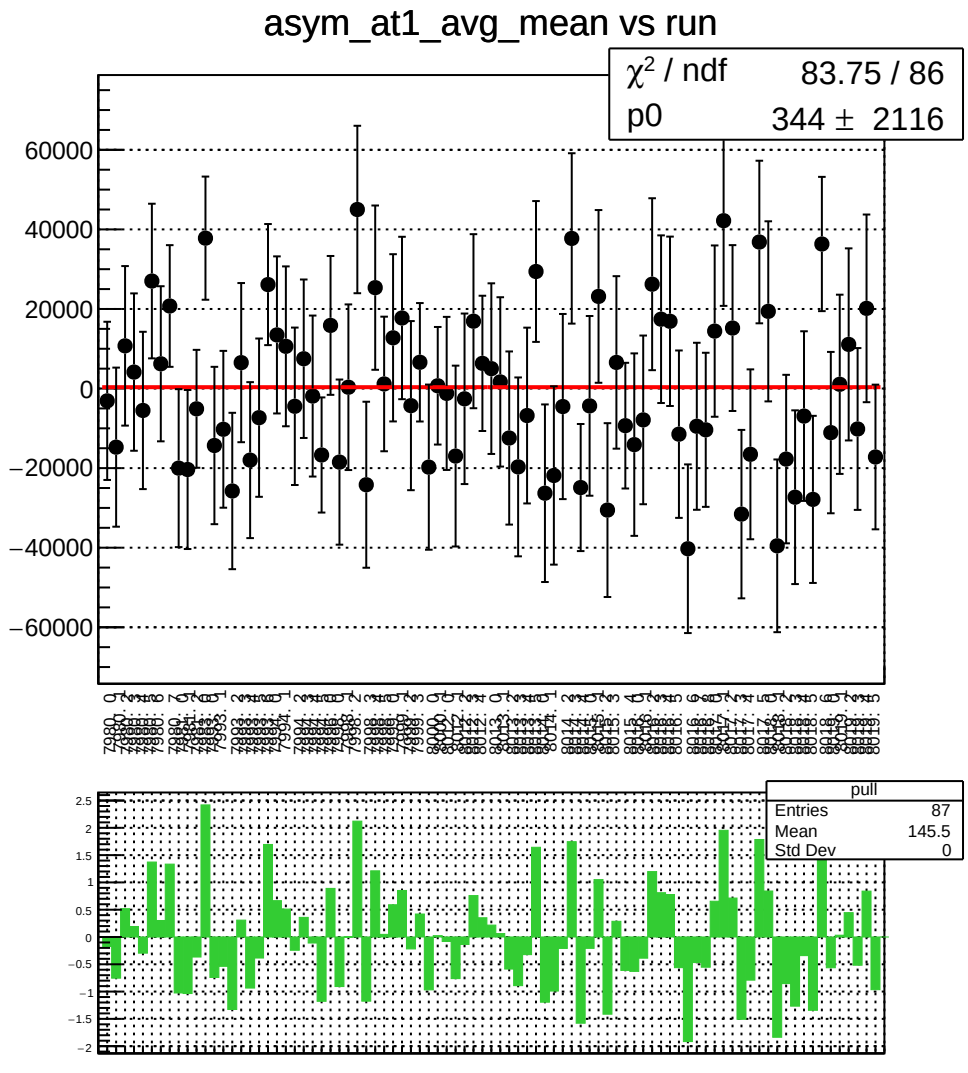

pull1D
Entries 87
Mean −0.01722
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

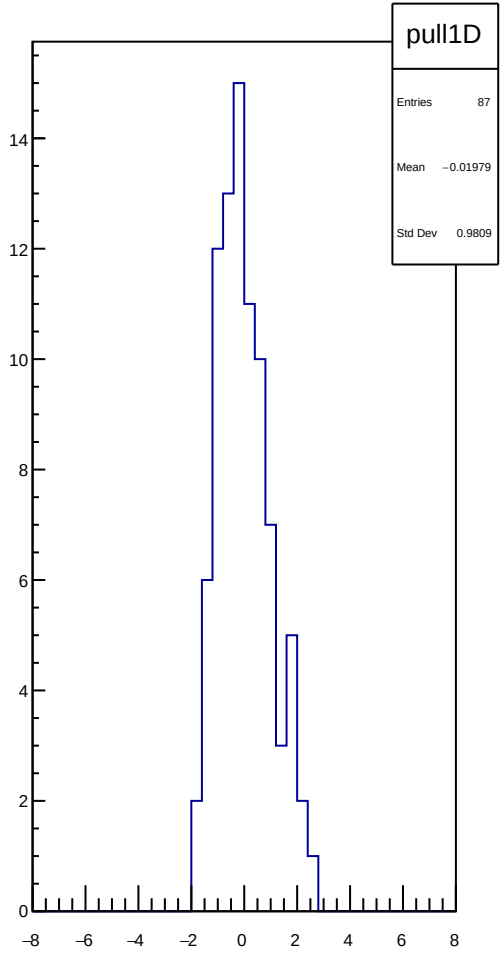

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 620.7 / 86
p0 1841 ± 1.388
2150
2100
2050
2000
1950
1900
1850
1800
1750

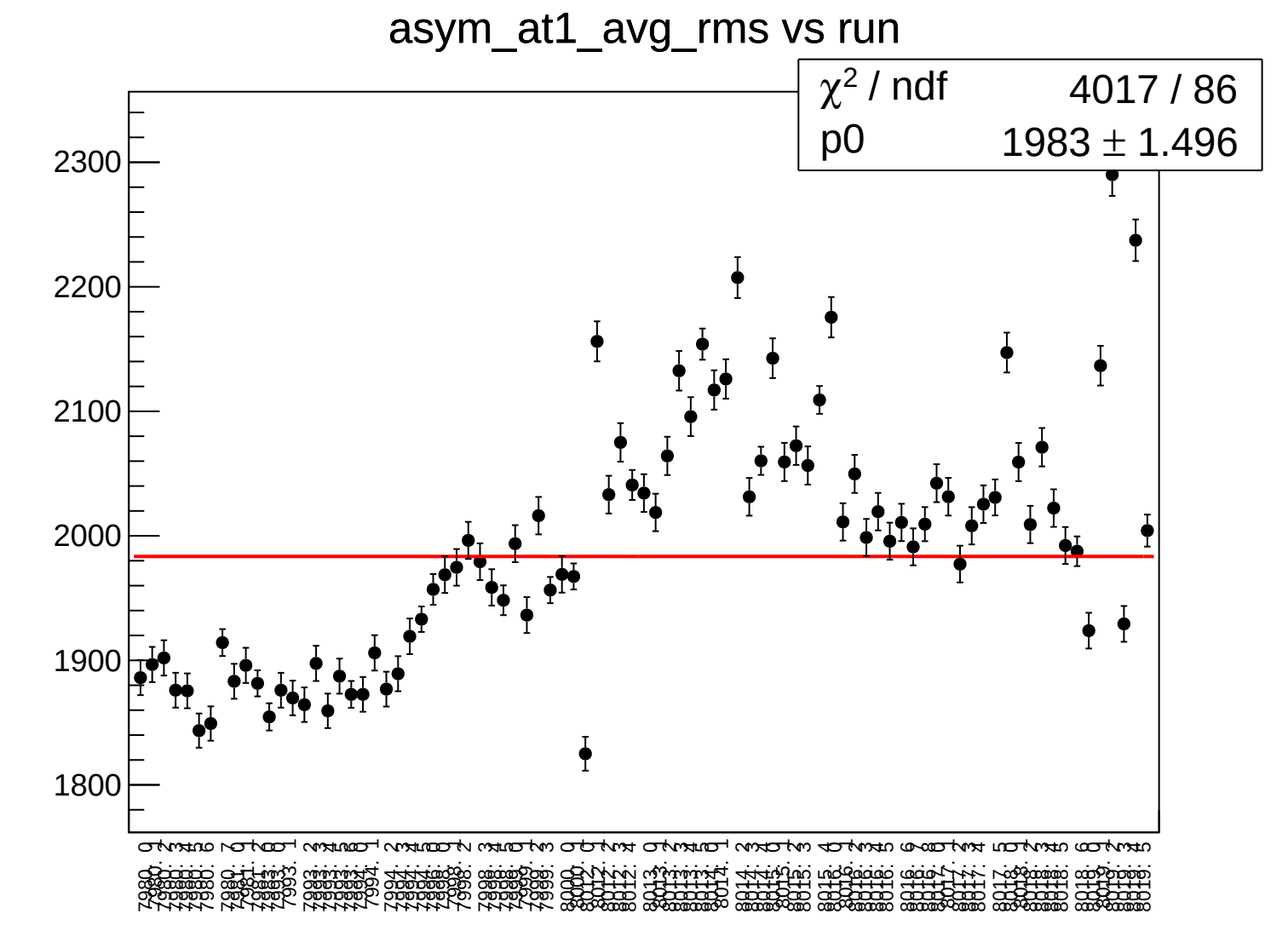

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.71 / 86
p0 −1564 ± 780.2
pull
Entries 87
Mean −55.48
Std Dev 0

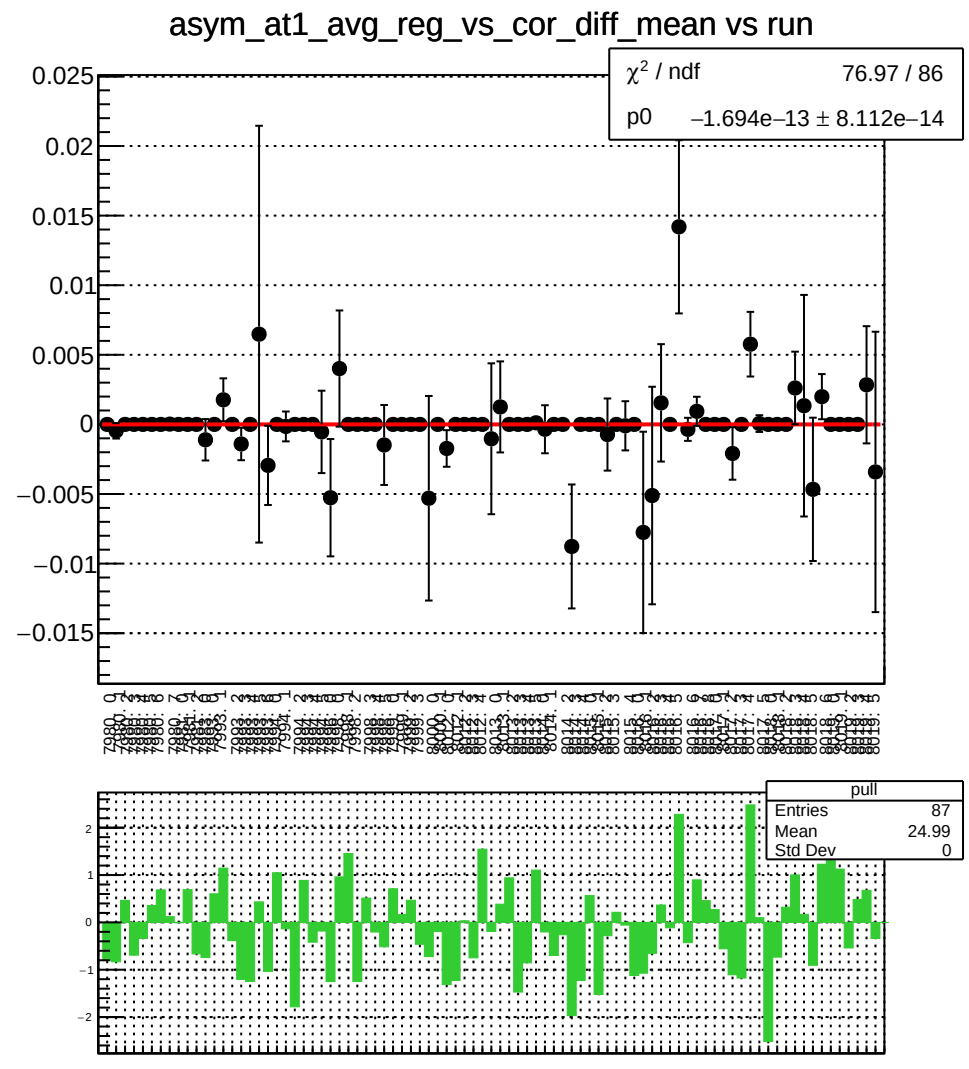

pull1D
Entries 87
Mean 0.009186
Std Dev 1.004

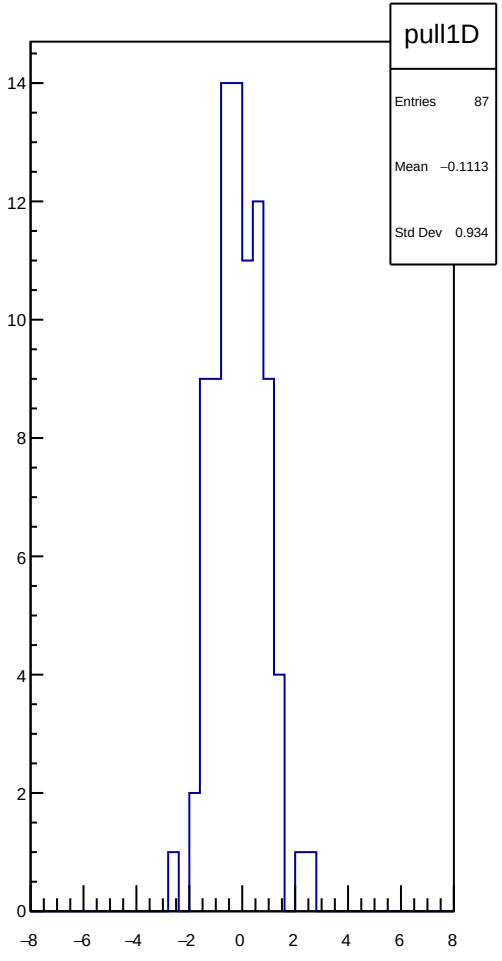

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8.629e+04 / 86
p0 713.9 ± 0.5517
1000
900
800
700
600

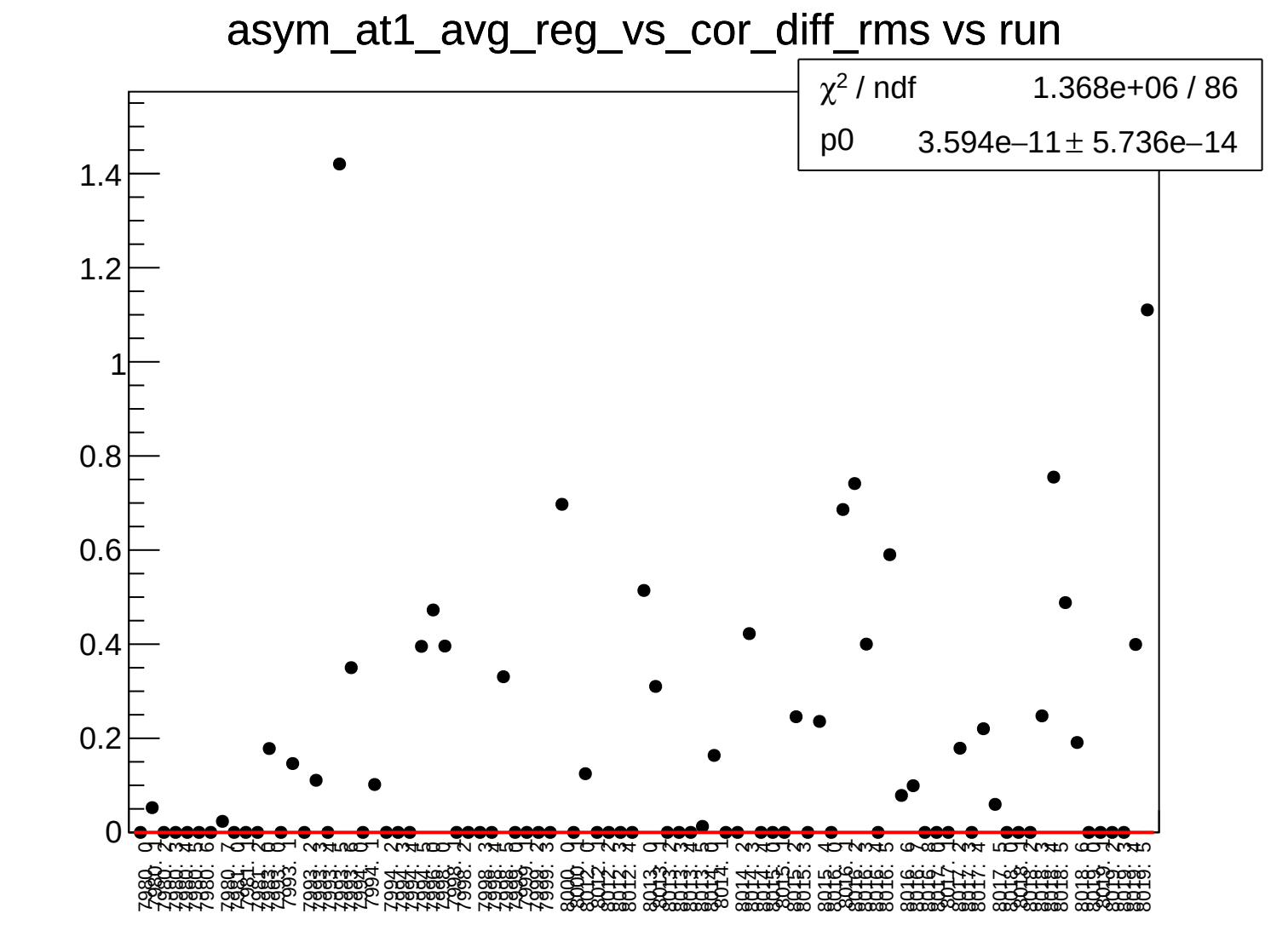

asym_at1_avg_mean vs run
χ² / ndf 83.75 / 86
p0 344 ± 2116
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 145.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

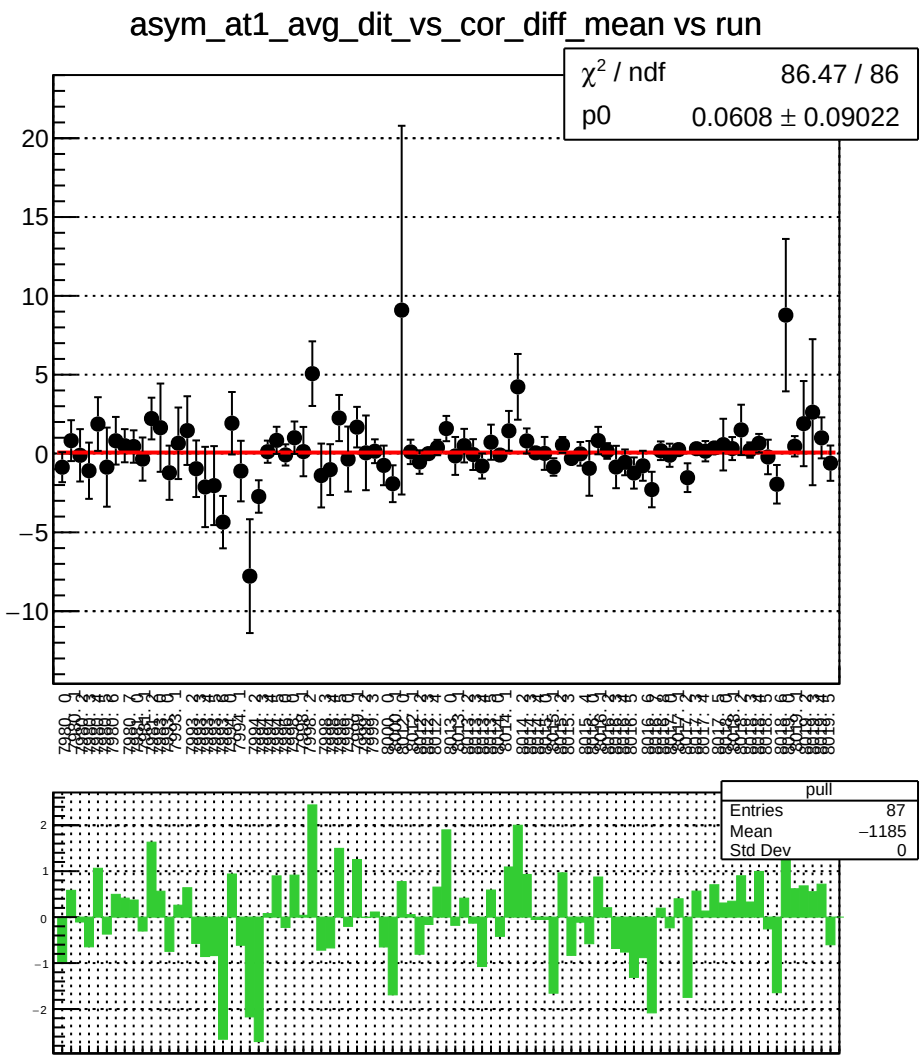

pull1D
Entries 87
Mean −0.01979
Std Dev 0.9809
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

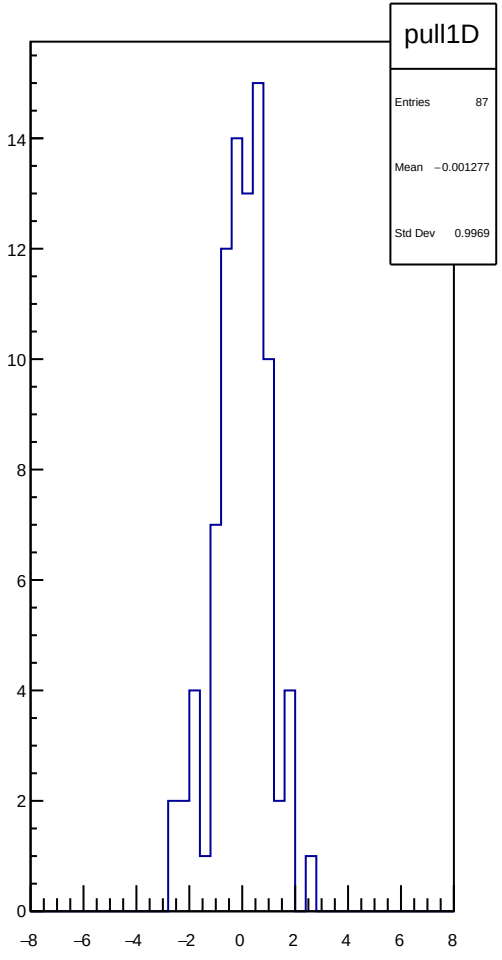

asym_at1_avg_rms vs run
χ² / ndf 4017 / 86
p0 1983 ± 1.496
2300
2200
2100
2000
1900
1800

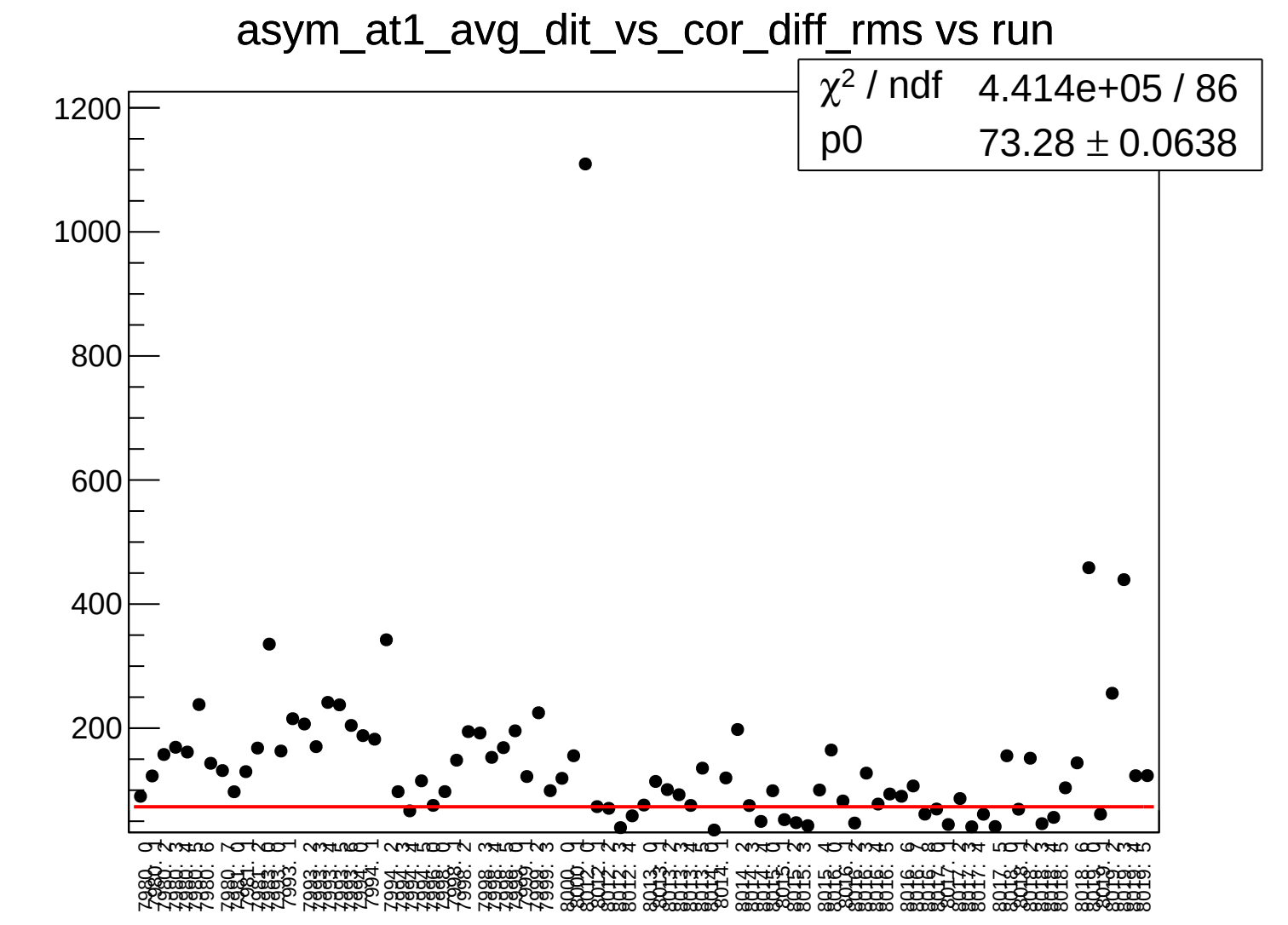

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.97 / 86
p0 −1.694e−13 ± 8.112e−14
pull
Entries 87
Mean 24.99
Std Dev 0

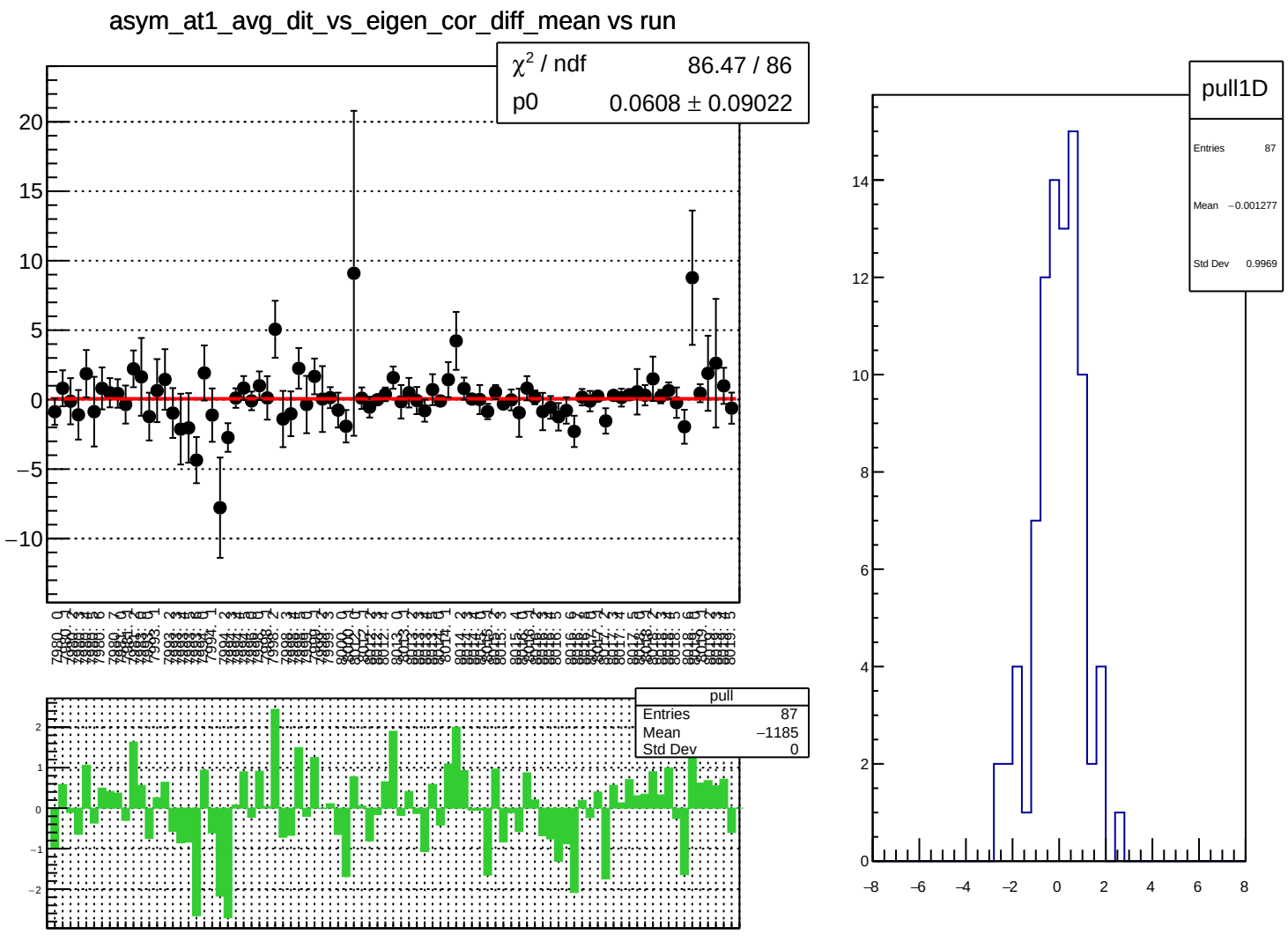

pull1D
Entries 87
Mean −0.1113
Std Dev 0.934

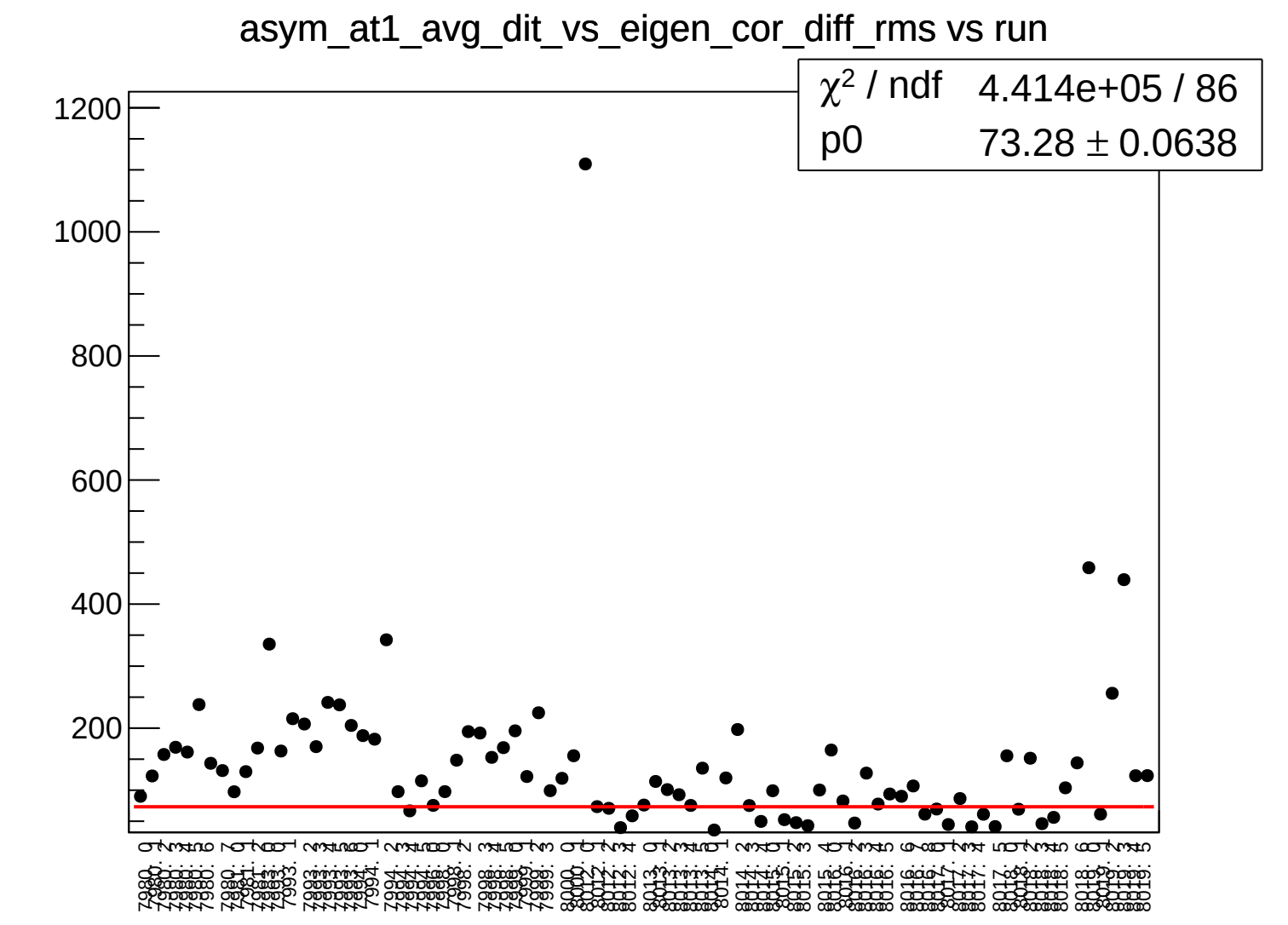

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.368e+06 / 86
p0 3.594e−11 ± 5.736e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

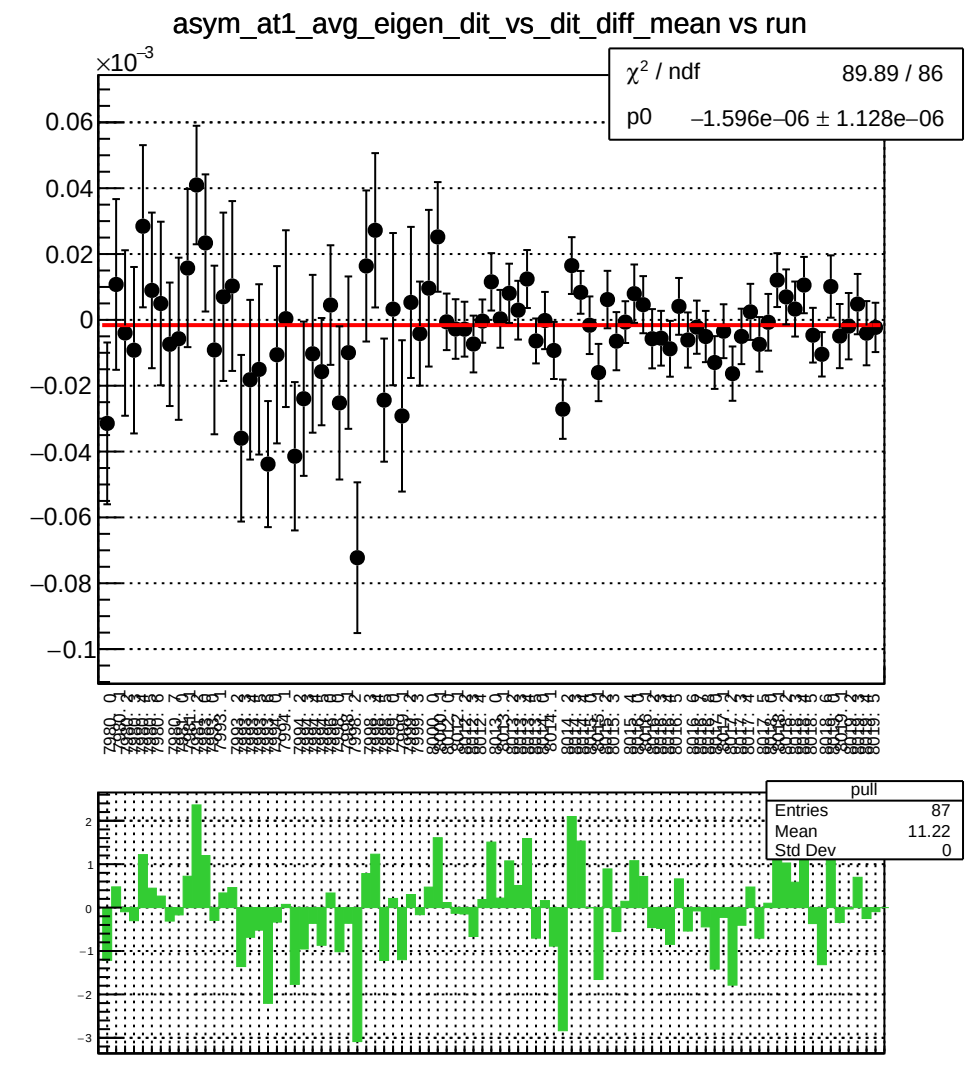

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.47 / 86
p0 0.0608 ± 0.09022
pull
Entries 87
Mean −1185
Std Dev 0

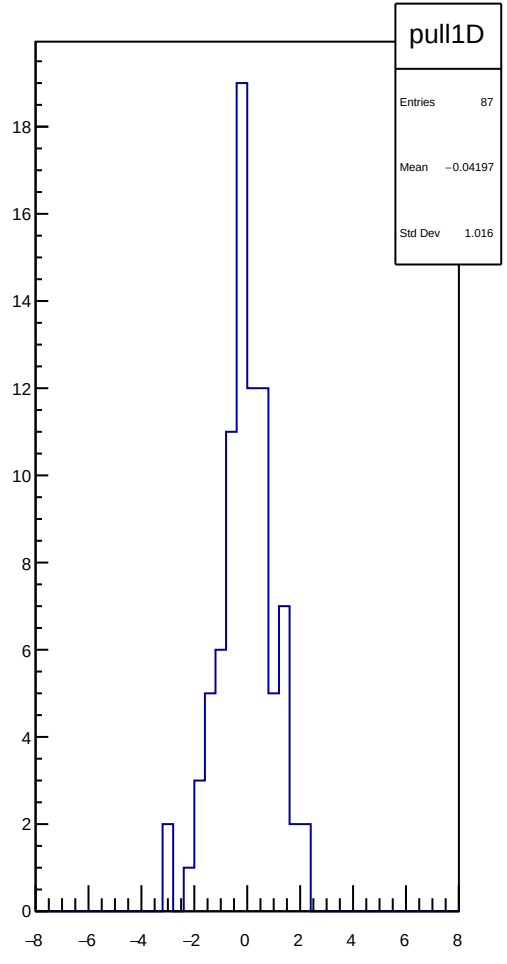

pull1D
Entries 87
Mean −0.001277
Std Dev 0.9969

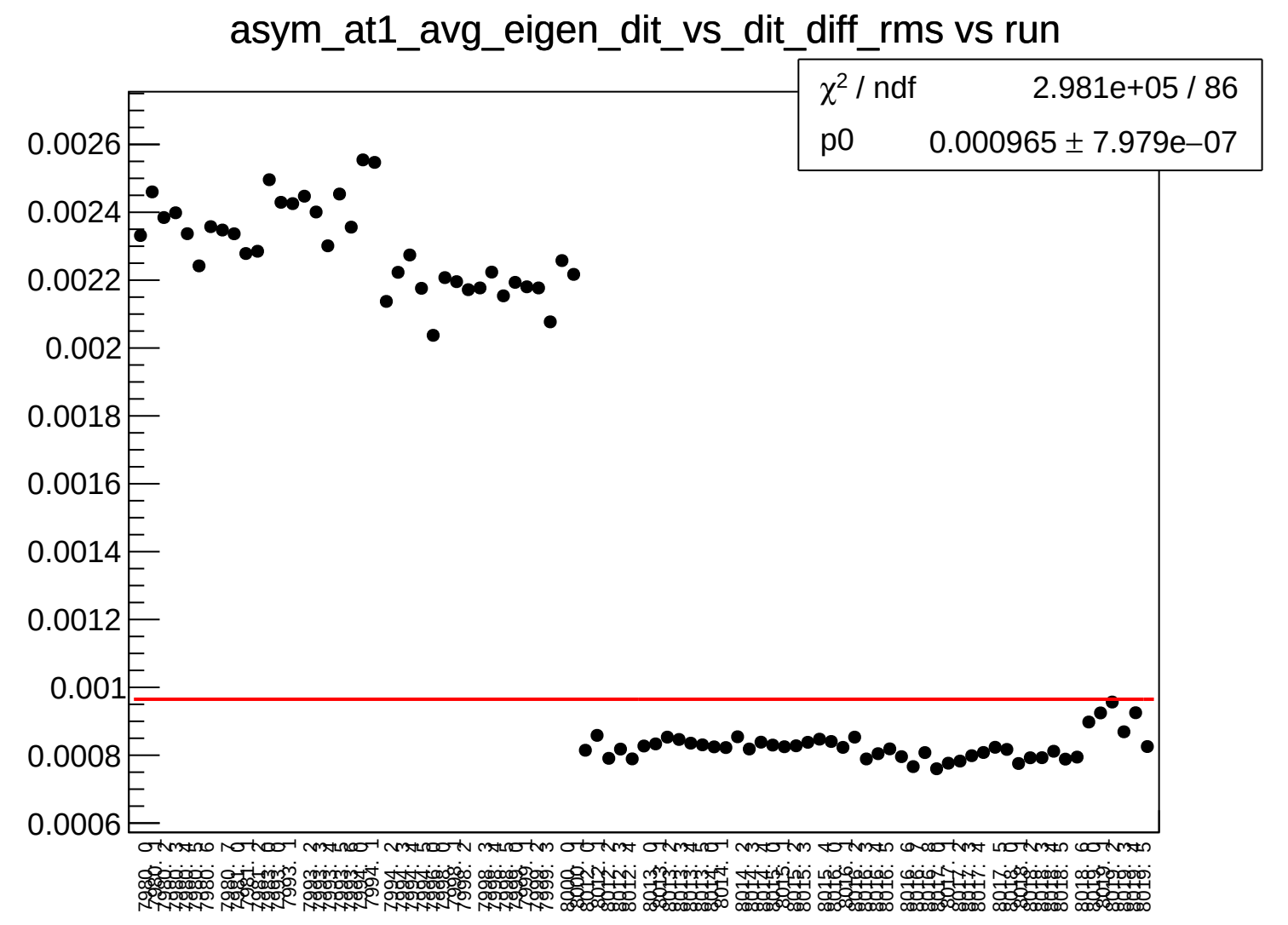

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.414e+05 / 86
p0 73.28 ± 0.0638
1200
1000
800
600
400
200

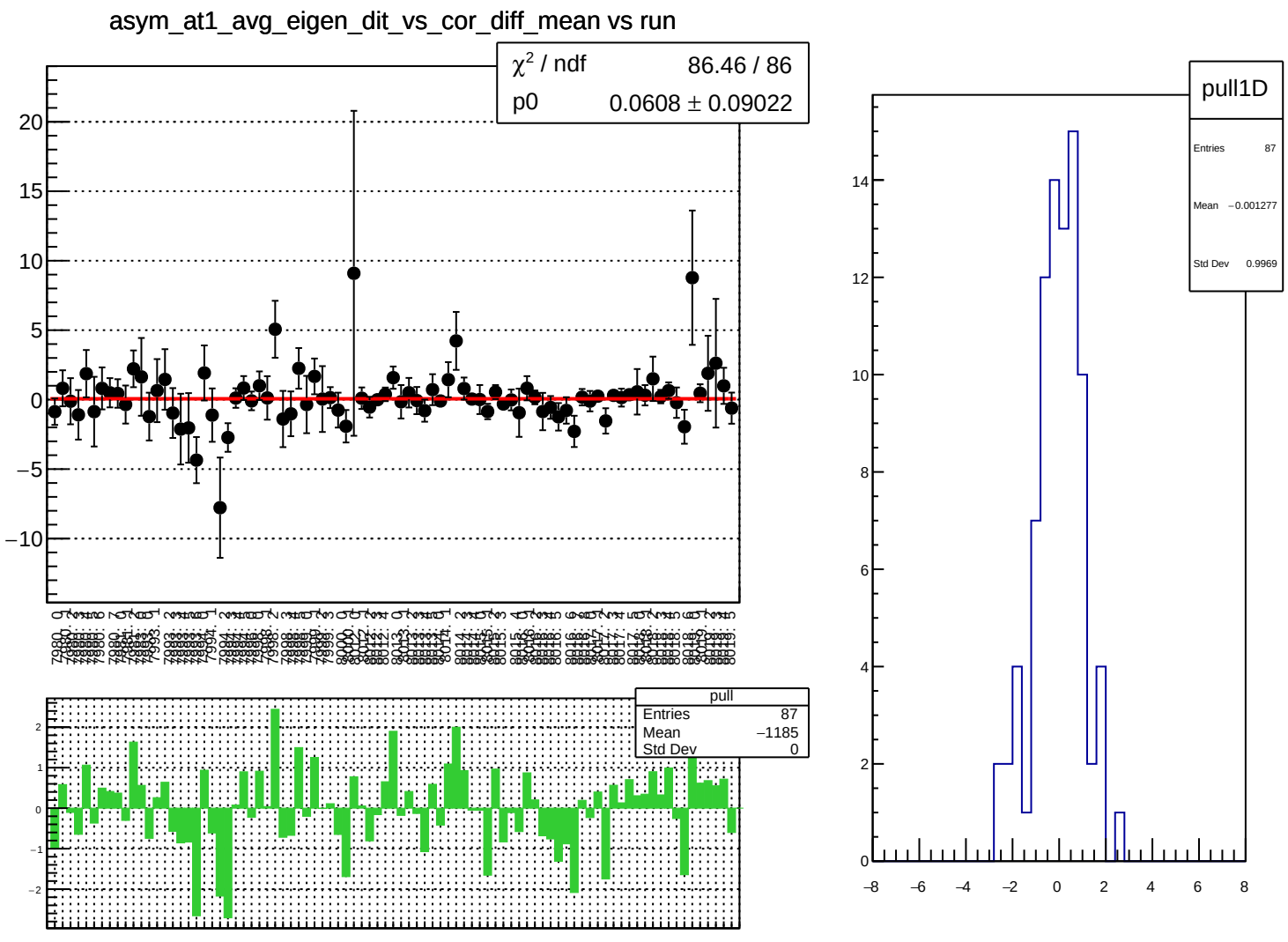

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.47 / 86
p0 0.0608 ± 0.09022
pull
Entries 87
Mean −1185
Std Dev 0
pull1D
Entries 87
Mean −0.001277
Std Dev 0.9969

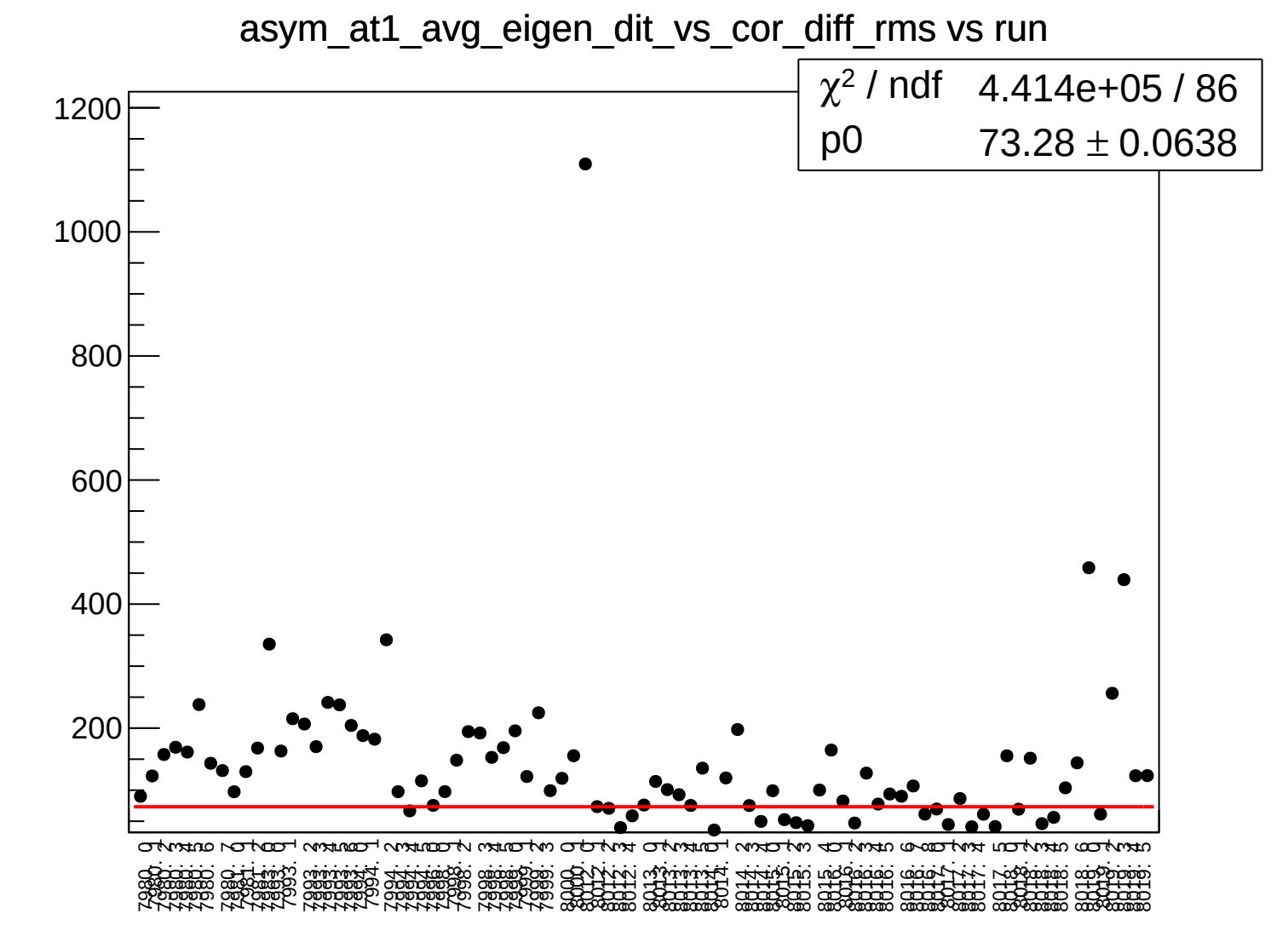

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.414e+05 / 86
p0 73.28 ± 0.0638
1200
1000
800
600
400
200

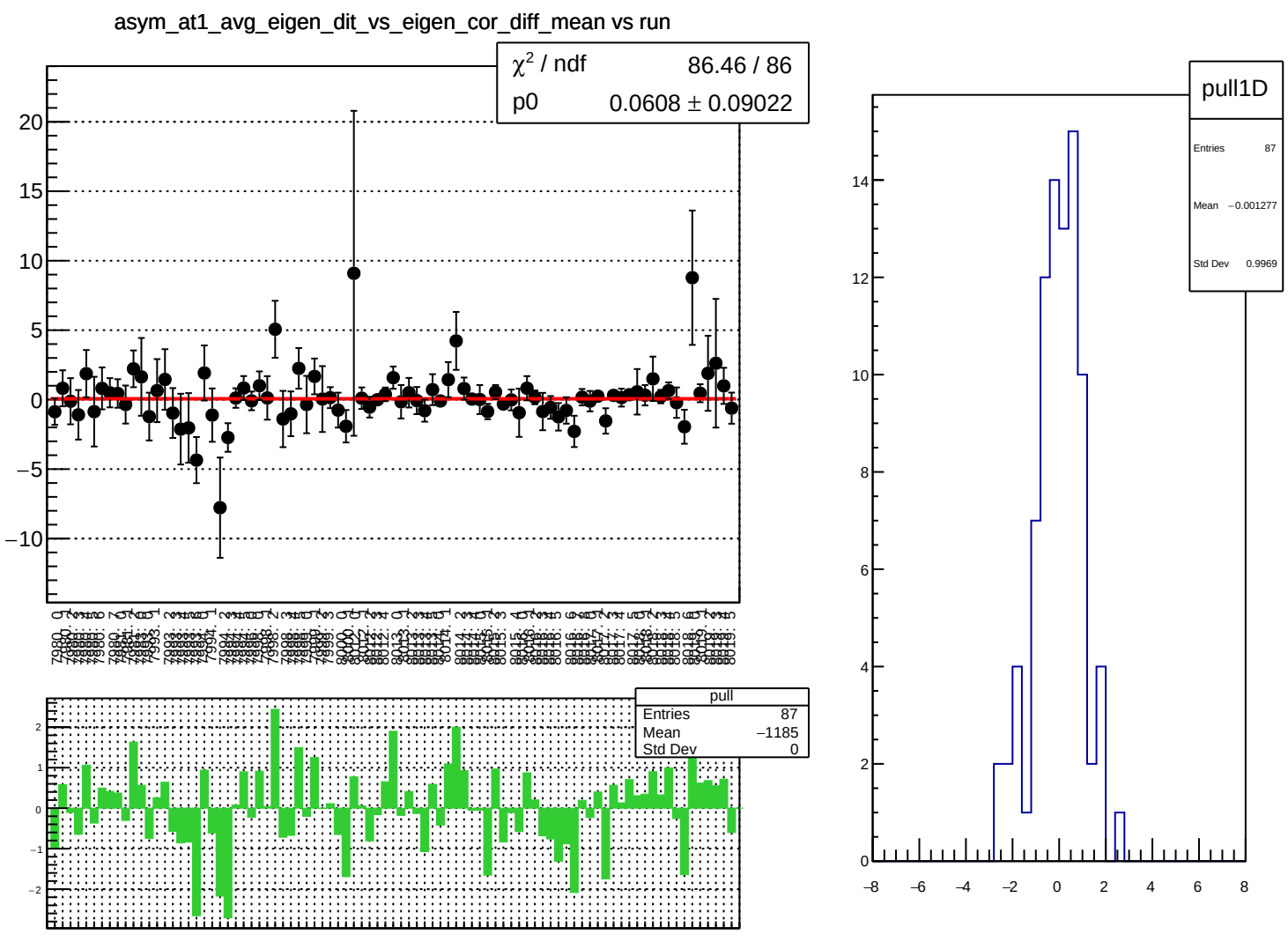

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.89 / 86
p0 −1.596e−06 ± 1.128e−06
pull
Entries 87
Mean 11.22
Std Dev 0

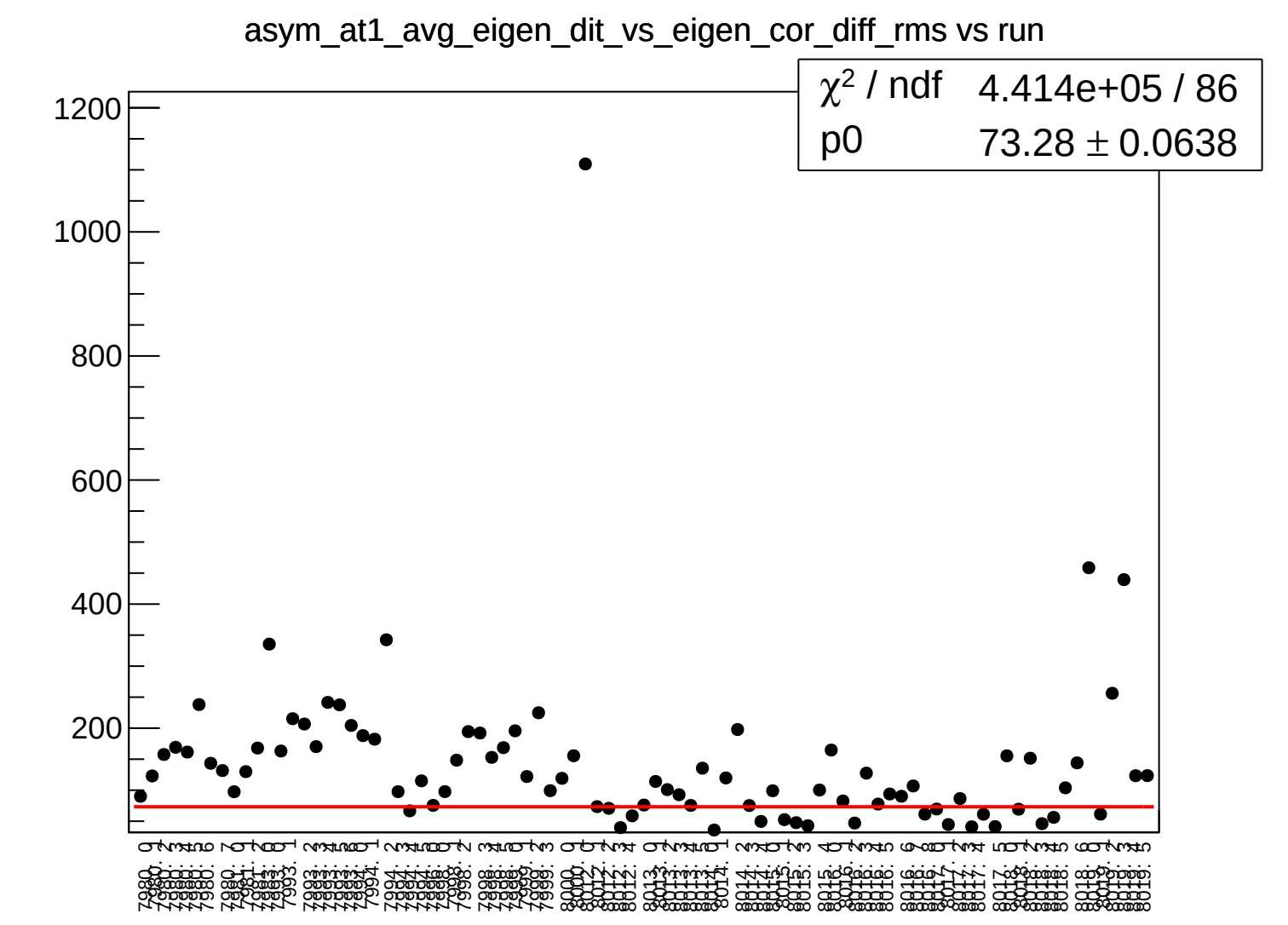

pull1D
Entries 87
Mean −0.04197
Std Dev 1.016

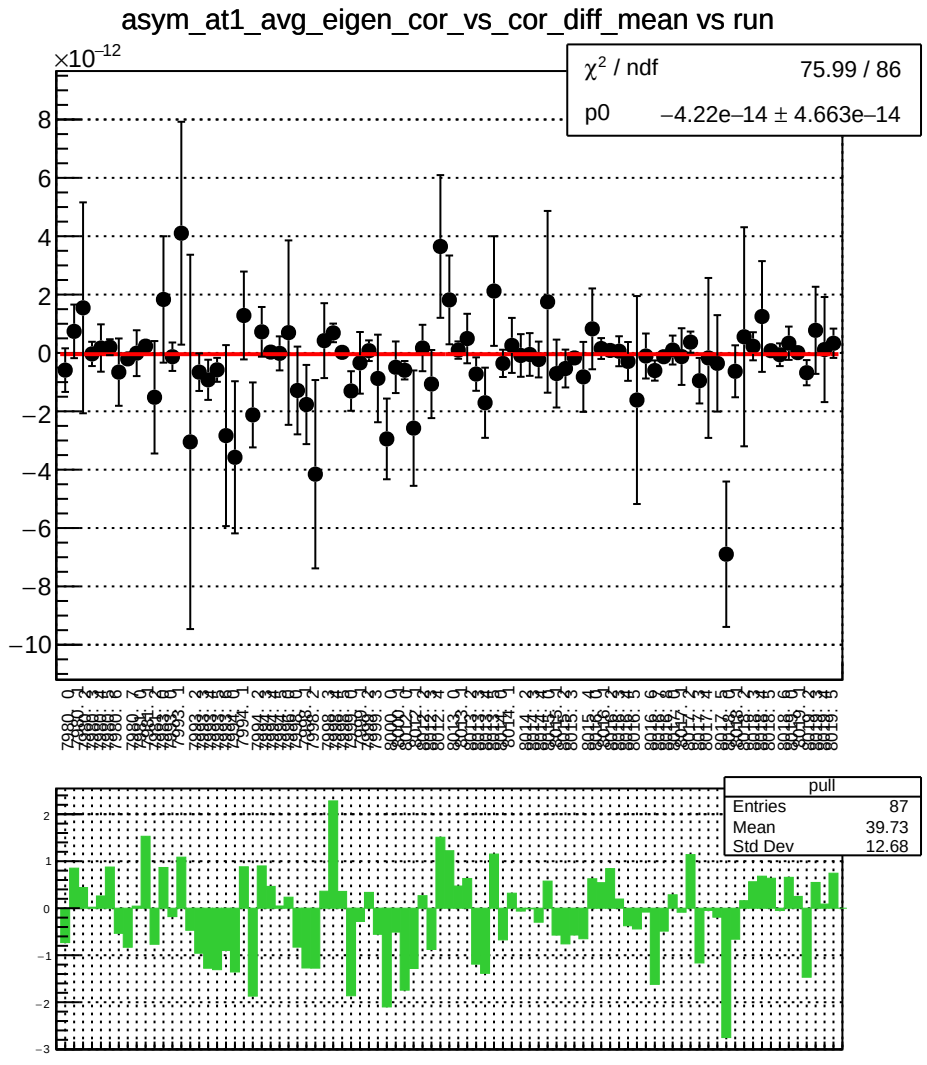

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.981e+05 / 86
p0 0.000965 ± 7.979e−07
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

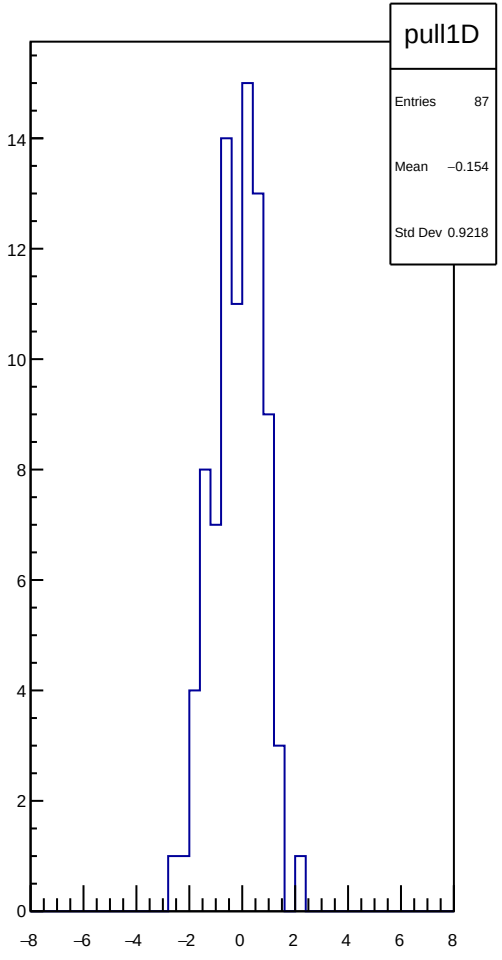

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.46 / 86
p0 0.0608 ± 0.09022
pull
Entries 87
Mean −1185
Std Dev 0
pull1D
Entries 87
Mean −0.001277
Std Dev 0.9969

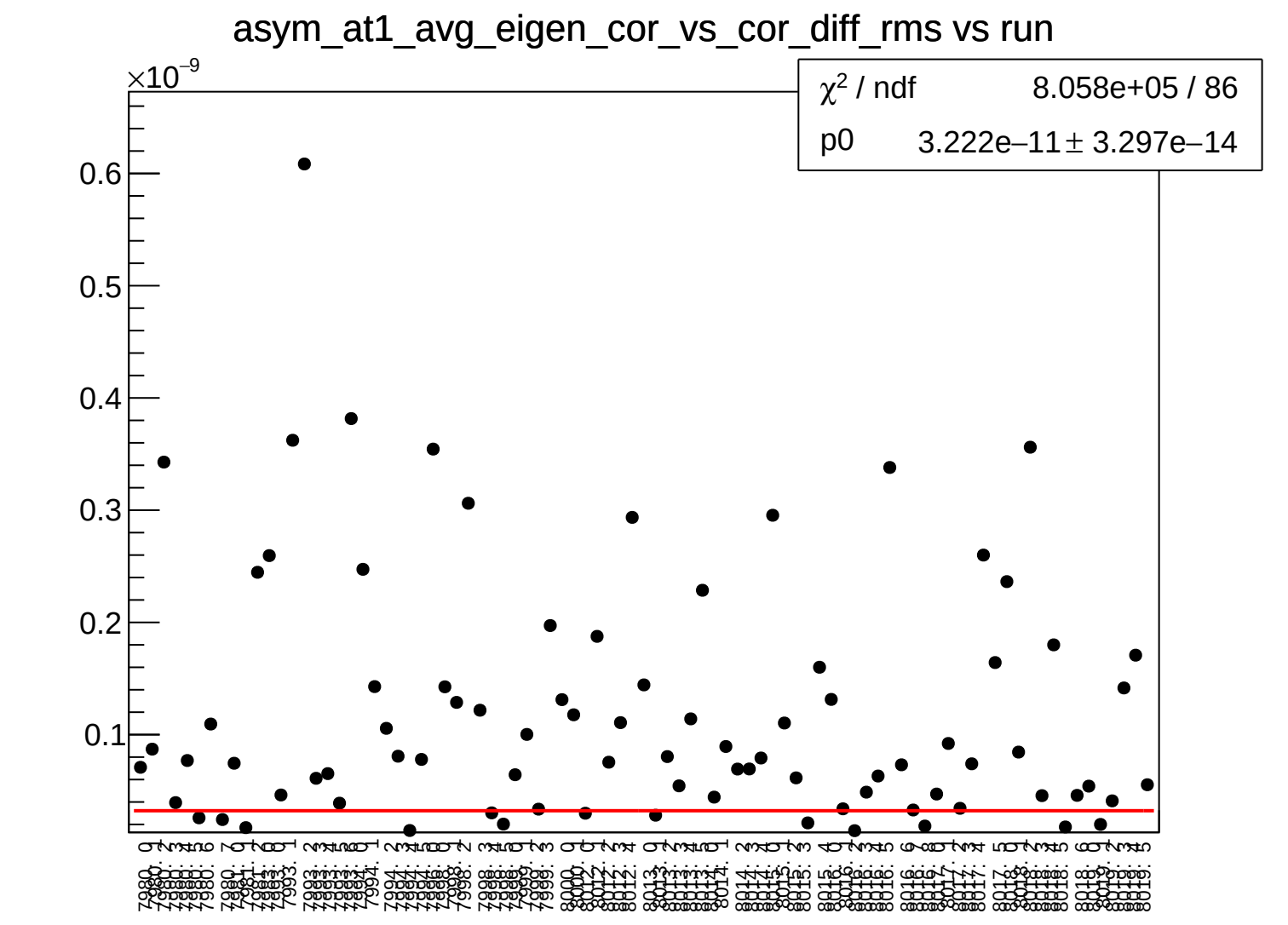

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.414e+05 / 86
p0 73.28 ± 0.0638
1200
1000
800
600
400
200

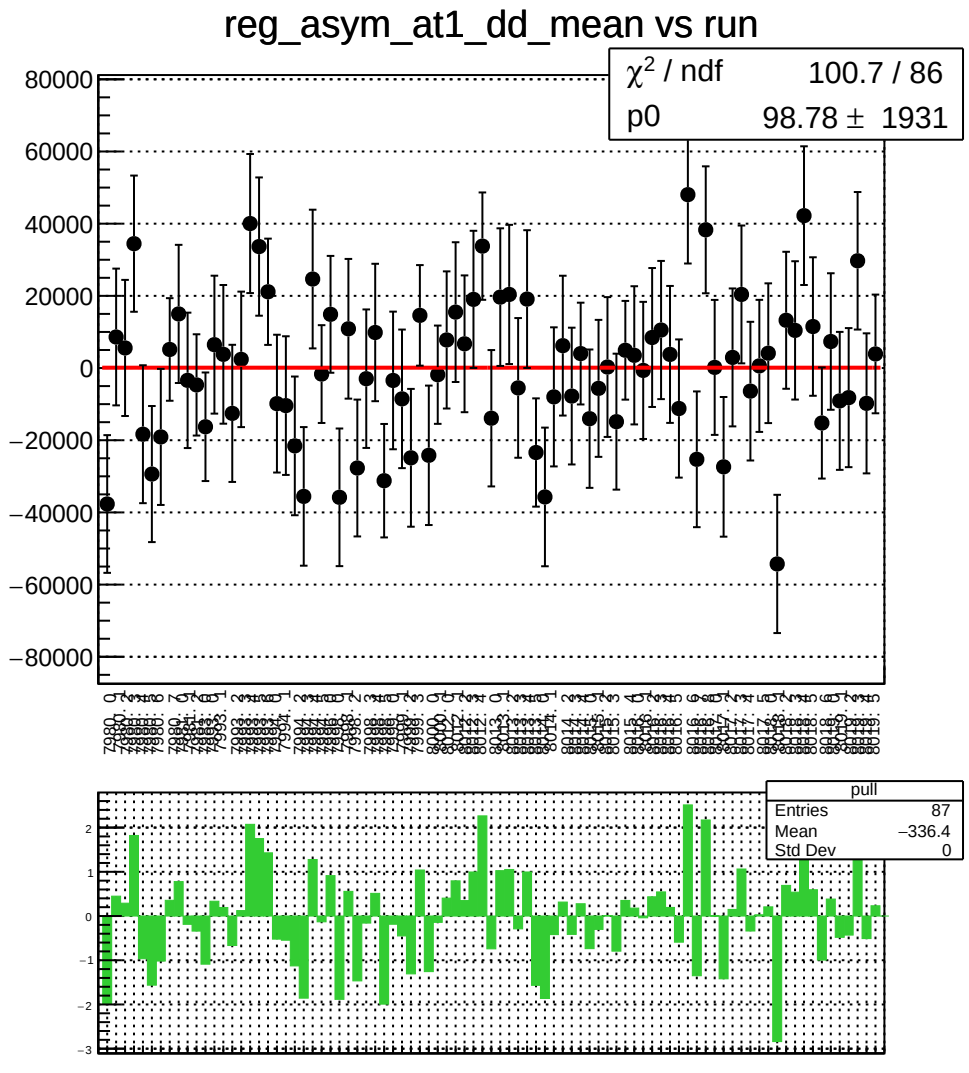

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.46 / 86
p0 0.0608 ± 0.09022
pull
Entries 87
Mean −1185
Std Dev 0
pull1D
Entries 87
Mean −0.001277
Std Dev 0.9969

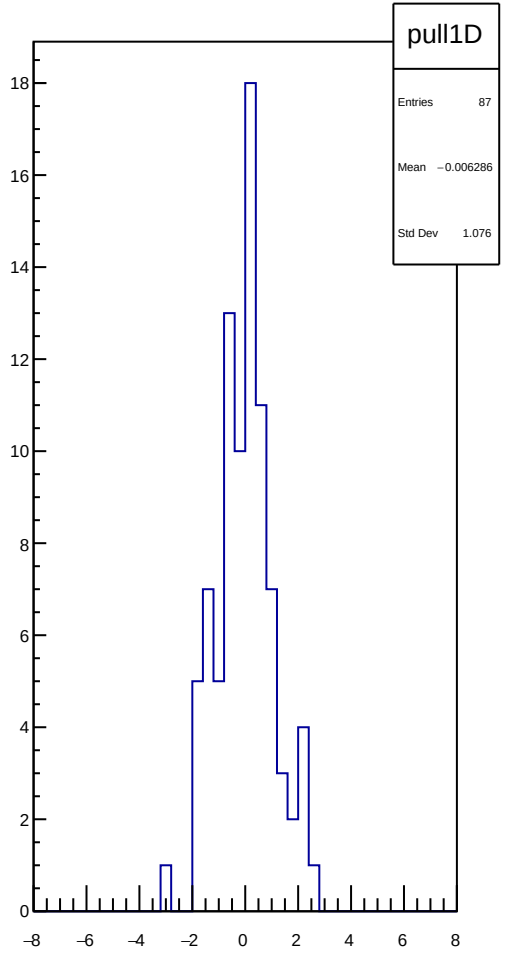

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.414e+05 / 86
p0 73.28 ± 0.0638
1200
1000
800
600
400
200

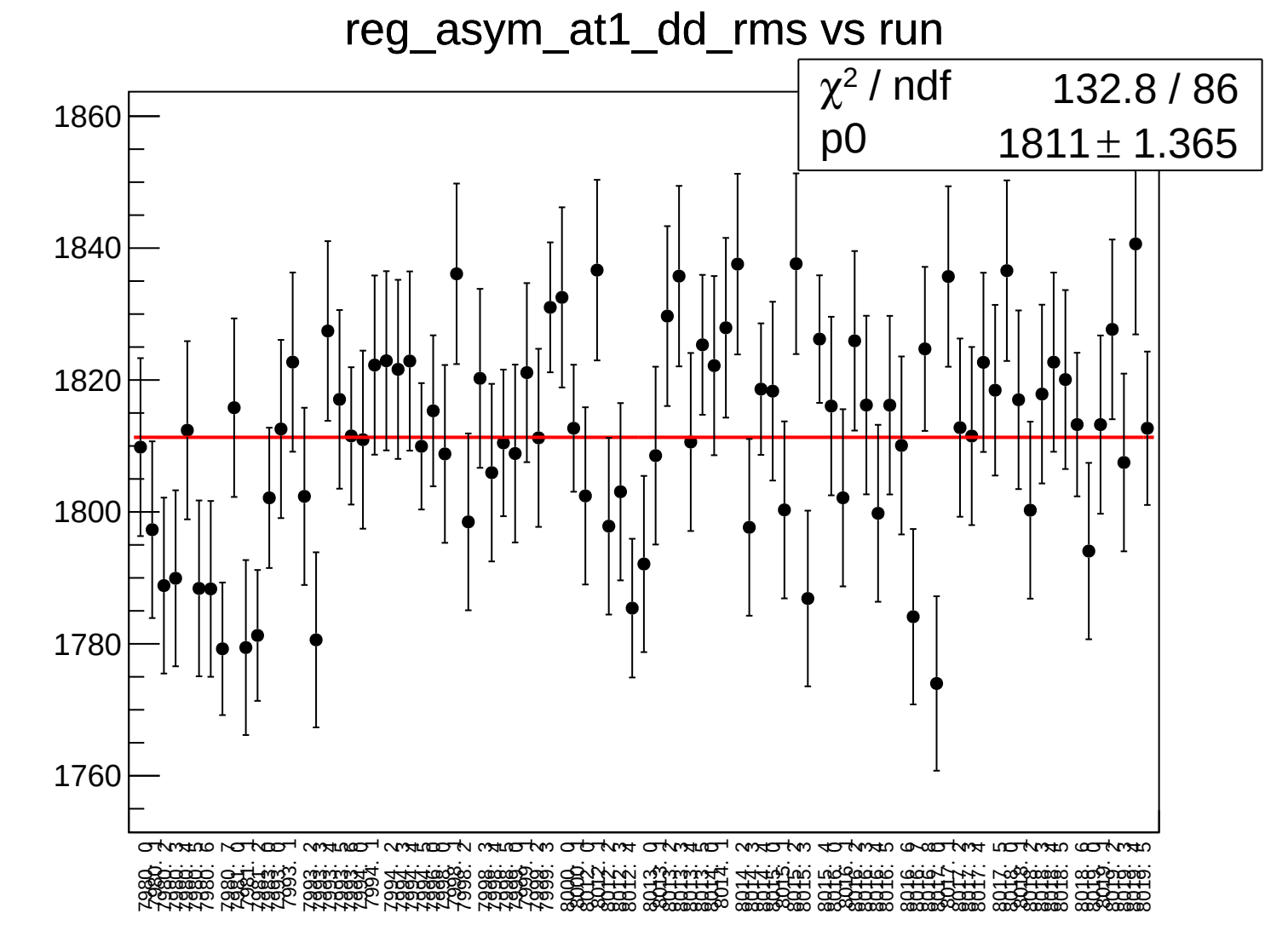

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.99 / 86
p0 −4.22e−14 ± 4.663e−14
pull
Entries 87
Mean 39.73
Std Dev 12.68

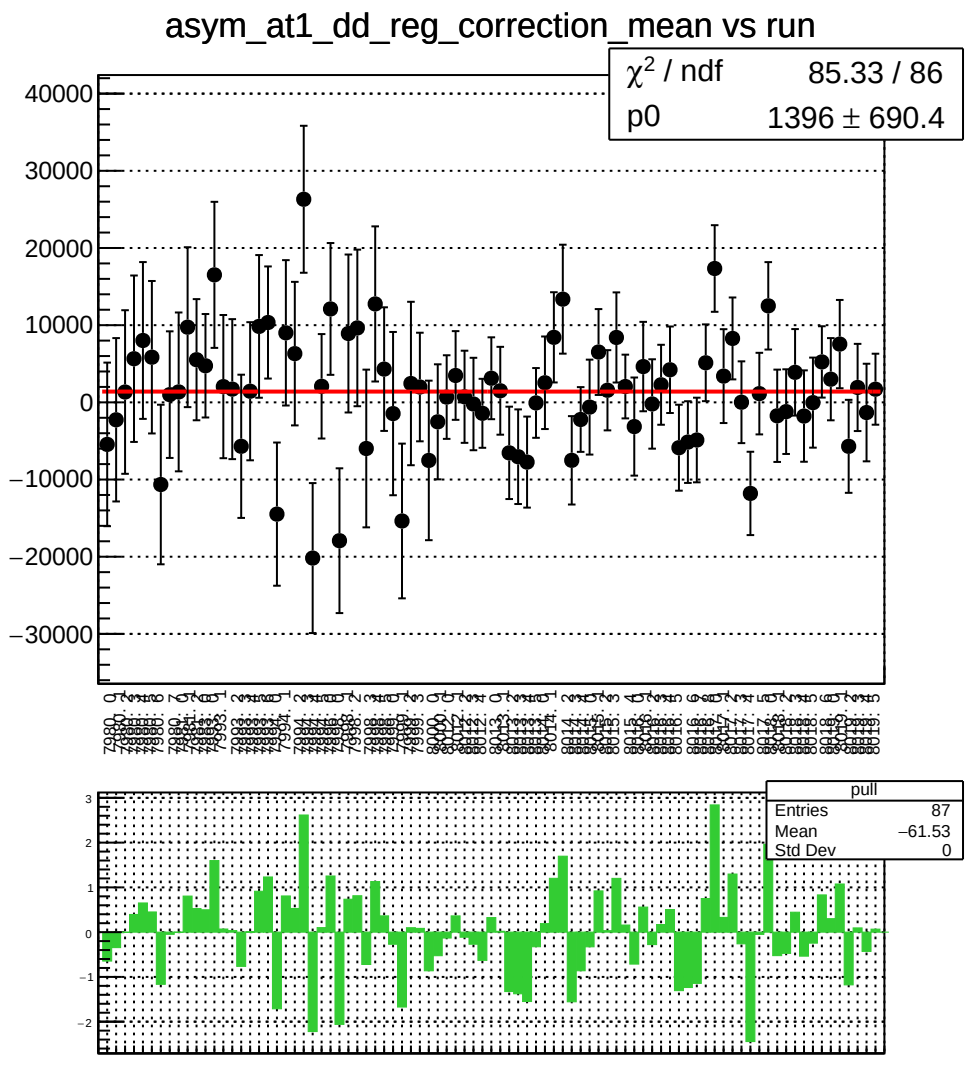

pull1D
Entries 87
Mean −0.154
Std Dev 0.9218

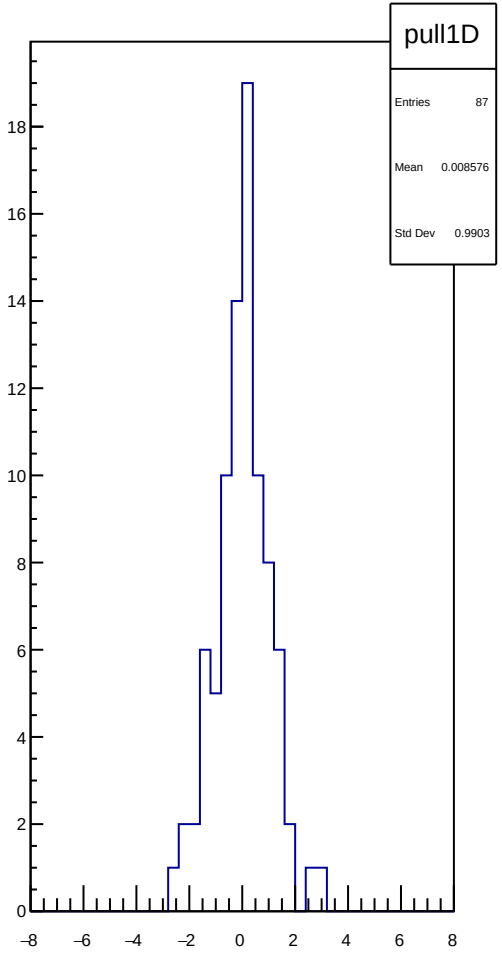

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.058e+05 / 86
p0 3.222e−11 ± 3.297e−14
0.6
0.5
0.4
0.3
0.2
0.1

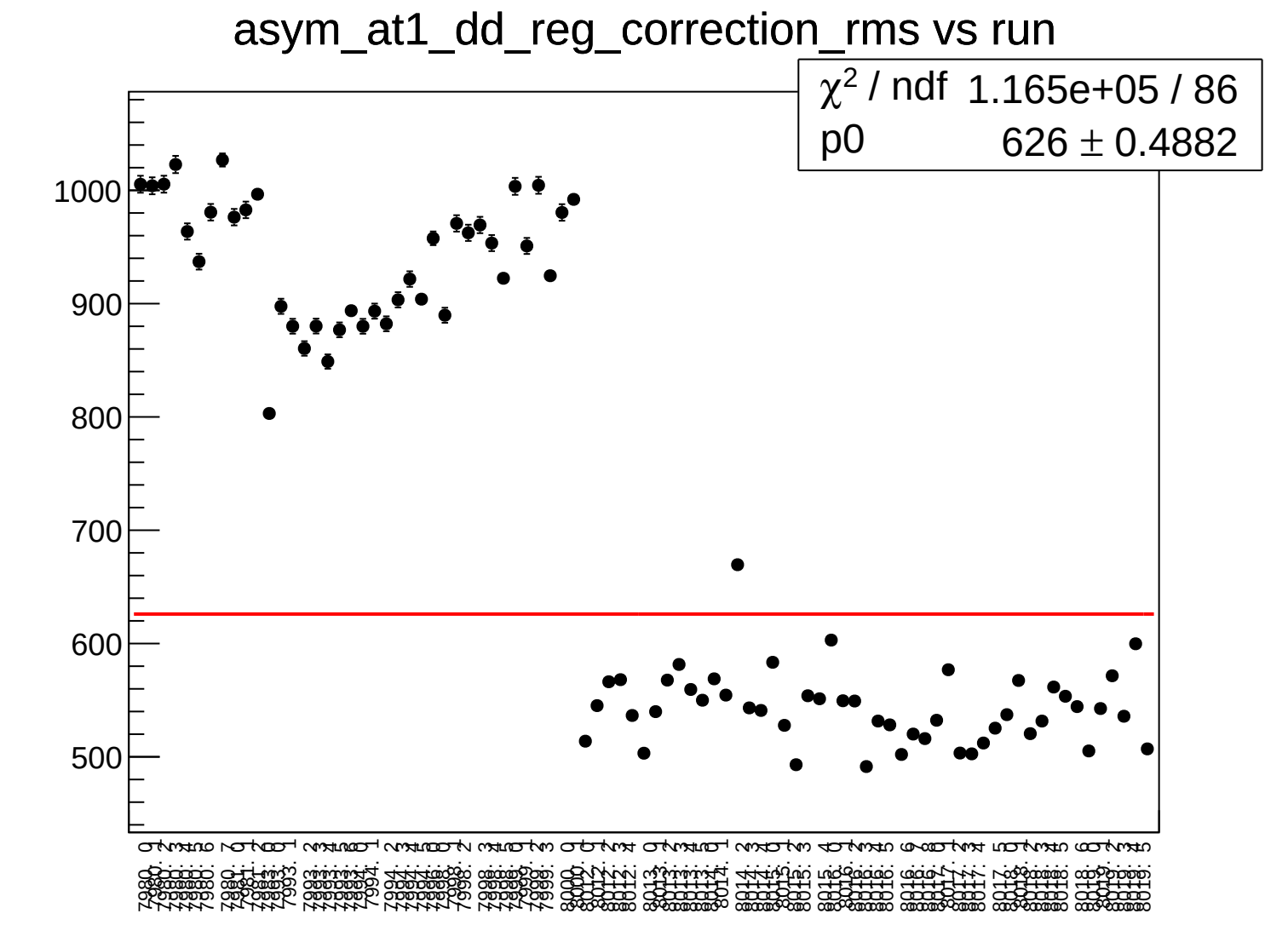

reg_asym_at1_dd_mean vs run
χ² / ndf 100.7 / 86
p0 98.78 ± 1931
pull
Entries 87
Mean −336.4
Std Dev 0

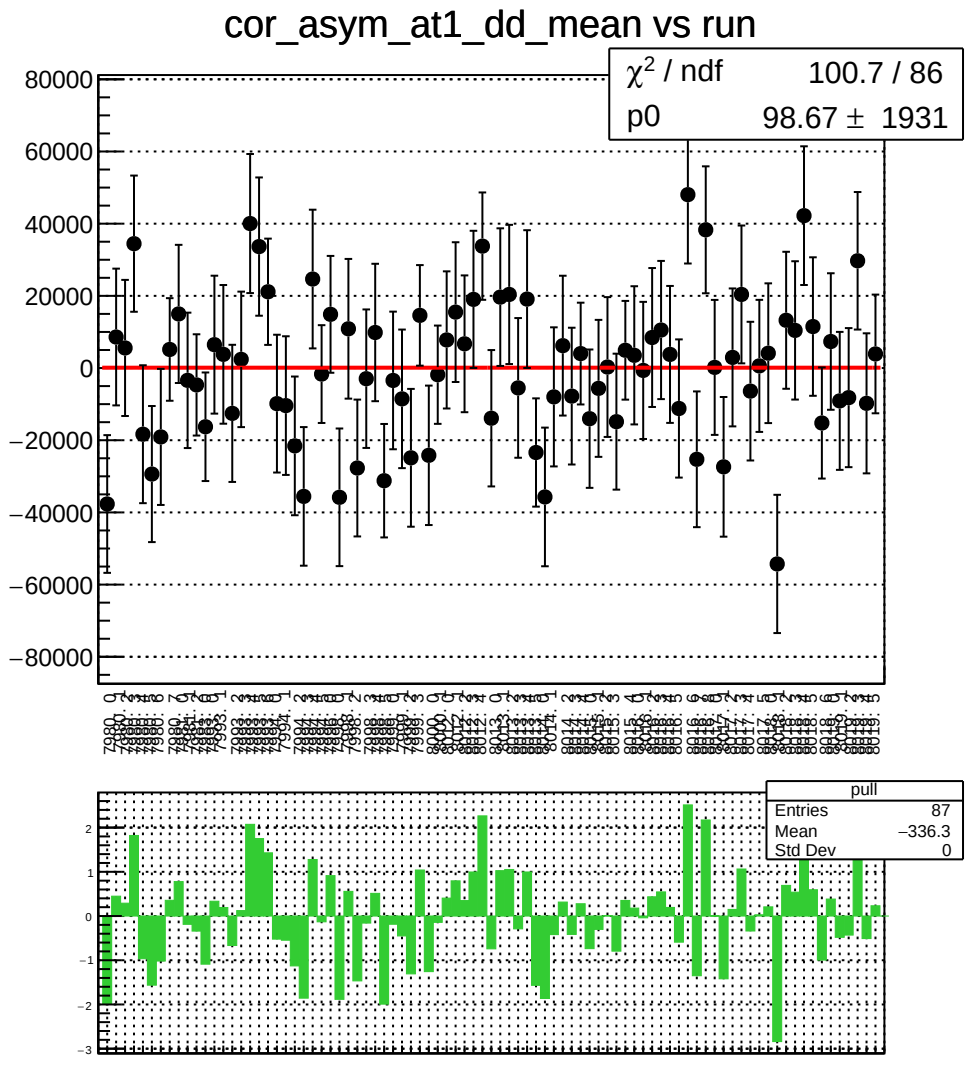

pull1D
Entries 87
Mean −0.006286
Std Dev 1.076

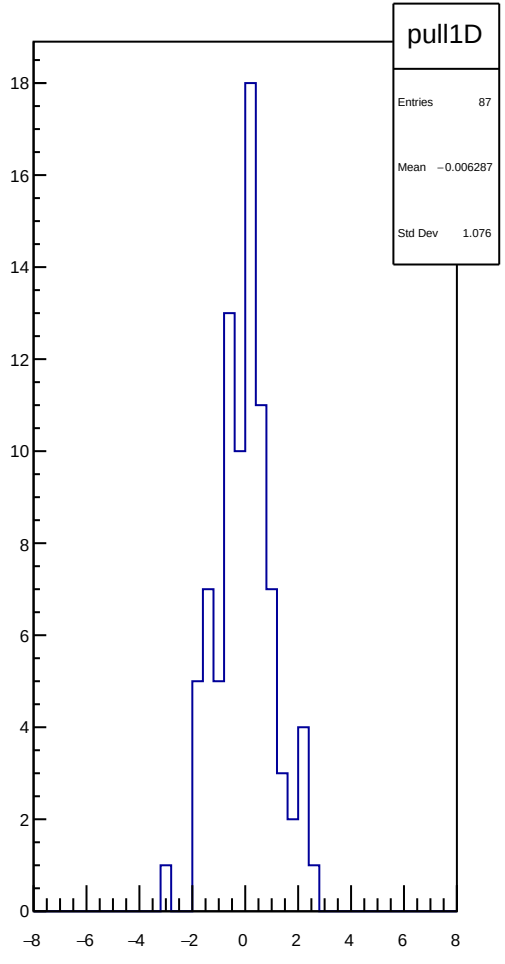

reg_asym_at1_dd_rms vs run
χ² / ndf 132.8 / 86
p0 1811 ± 1.365
1860
1840
1820
1800
1780
1760

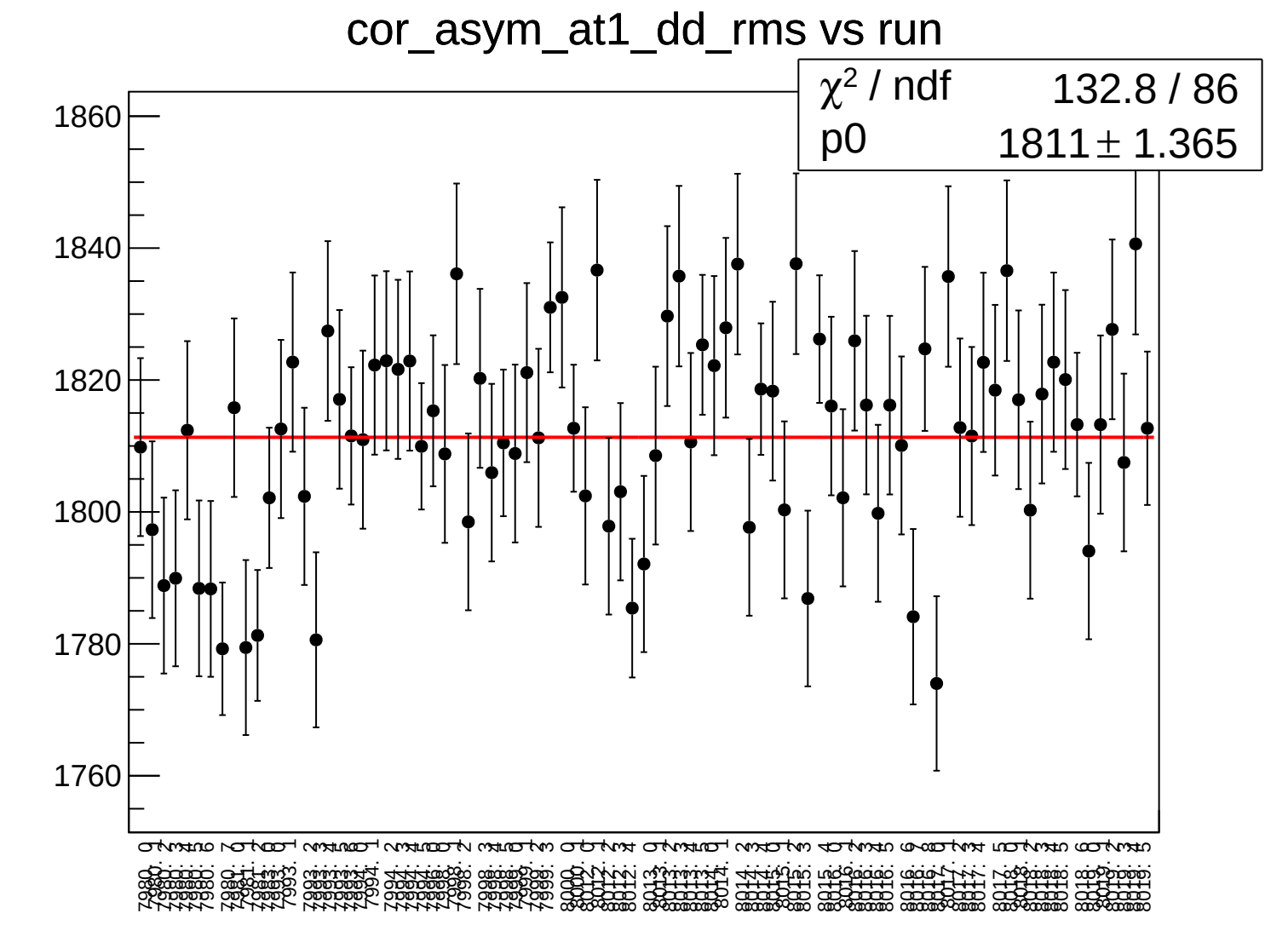

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 85.33 / 86
p0 1396 ± 690.4
pull
Entries 87
Mean −61.53
Std Dev 0

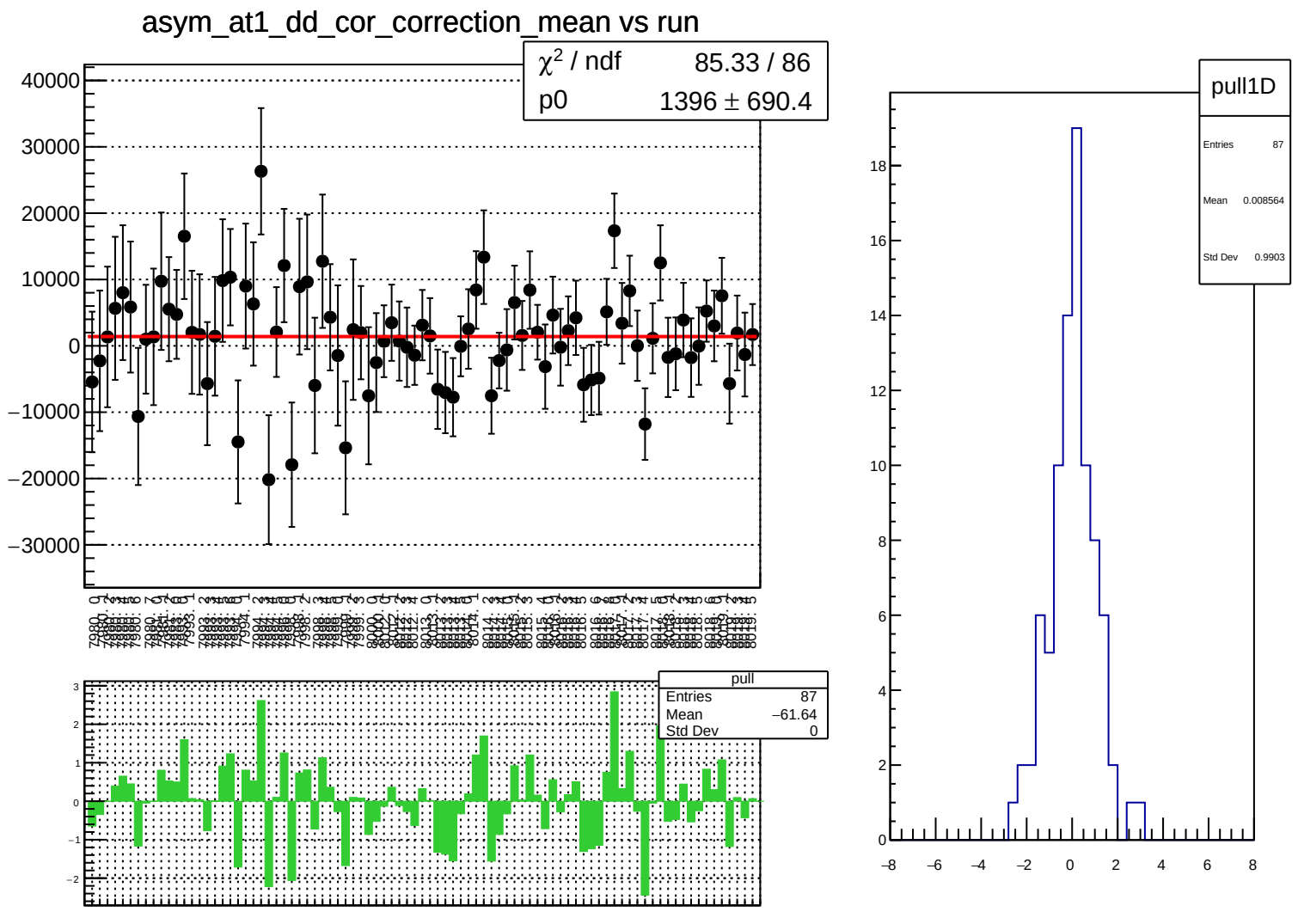

pull1D
Entries 87
Mean 0.008576
Std Dev 0.9903

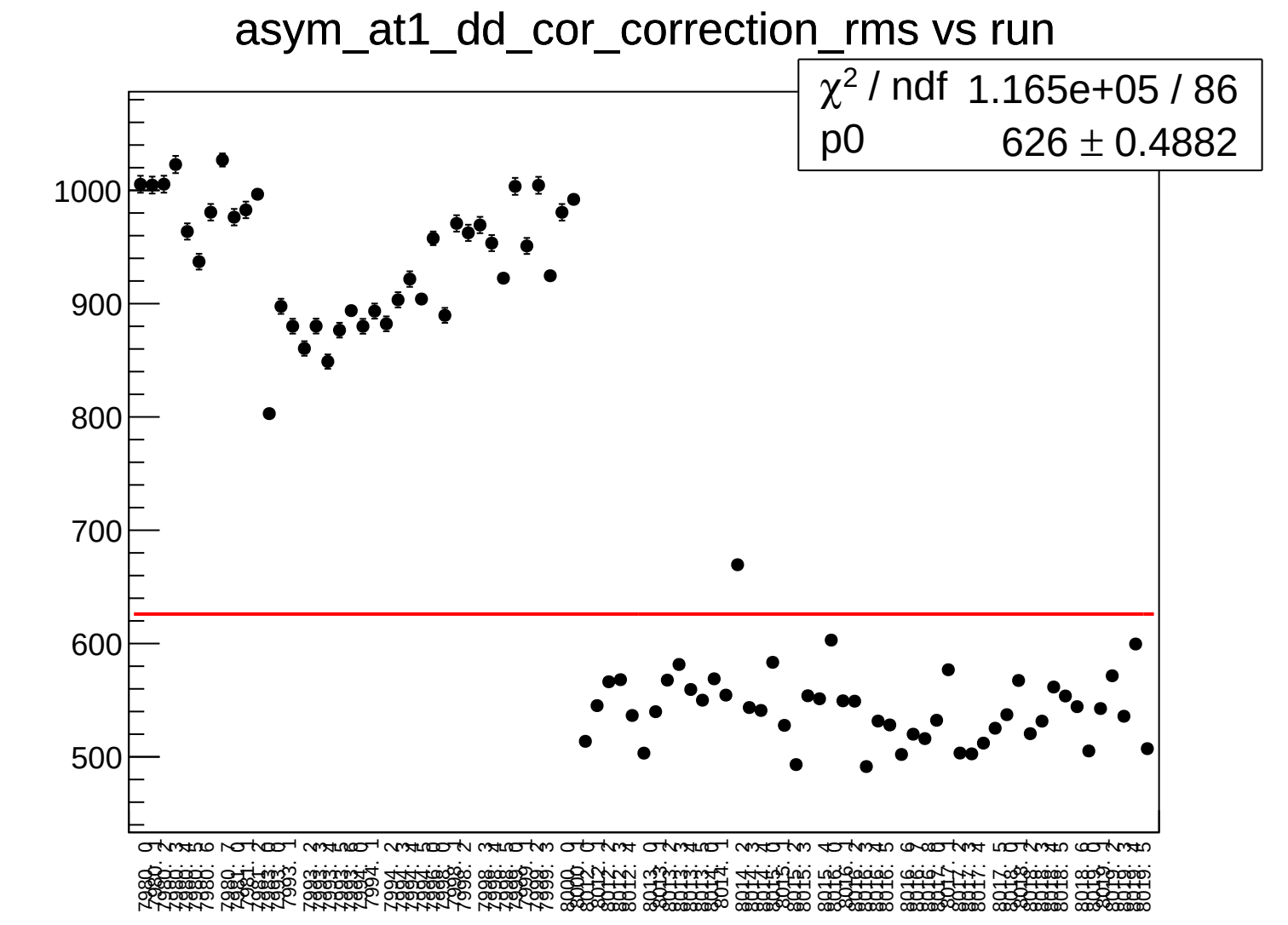

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.165e+05 / 86
p0 626 ± 0.4882
1000
900
800
700
600
500

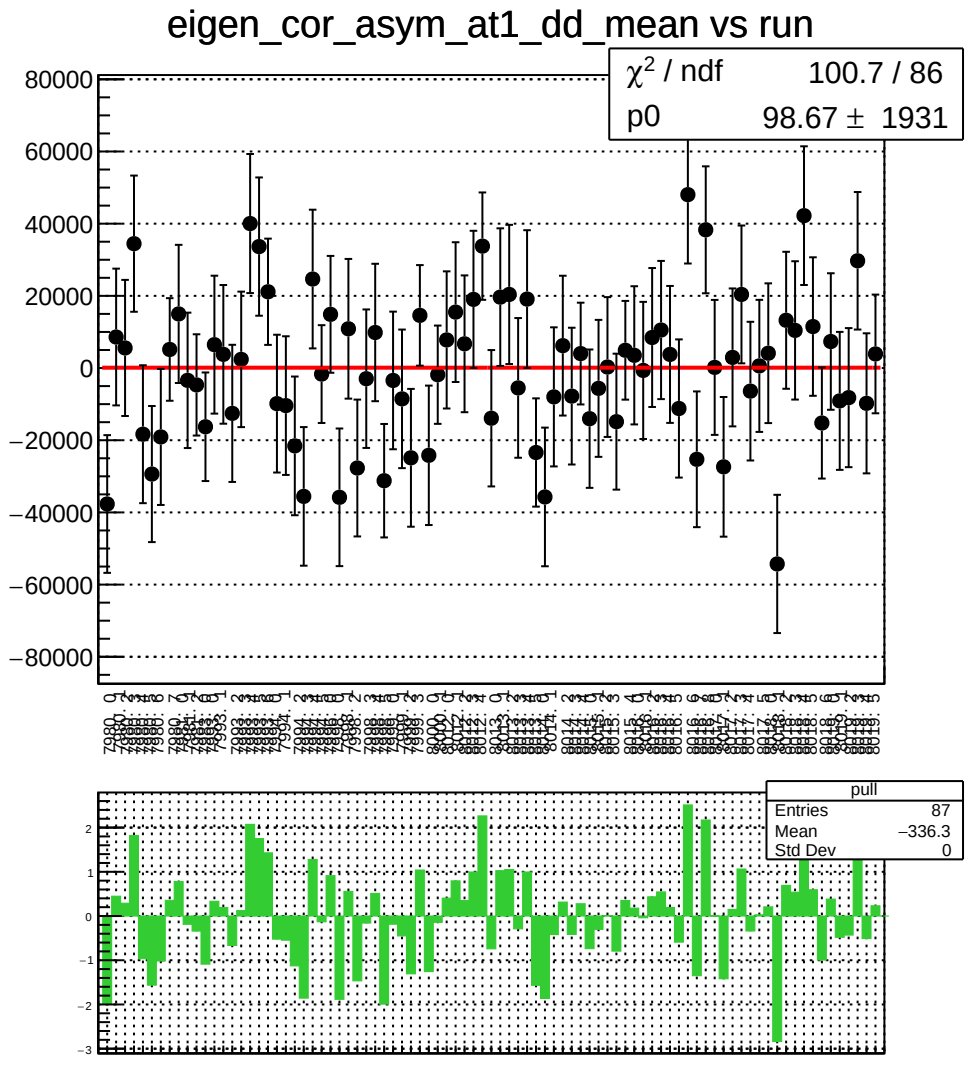

cor_asym_at1_dd_mean vs run
χ² / ndf 100.7 / 86
p0 98.67 ± 1931
pull
Entries 87
Mean −336.3
Std Dev 0

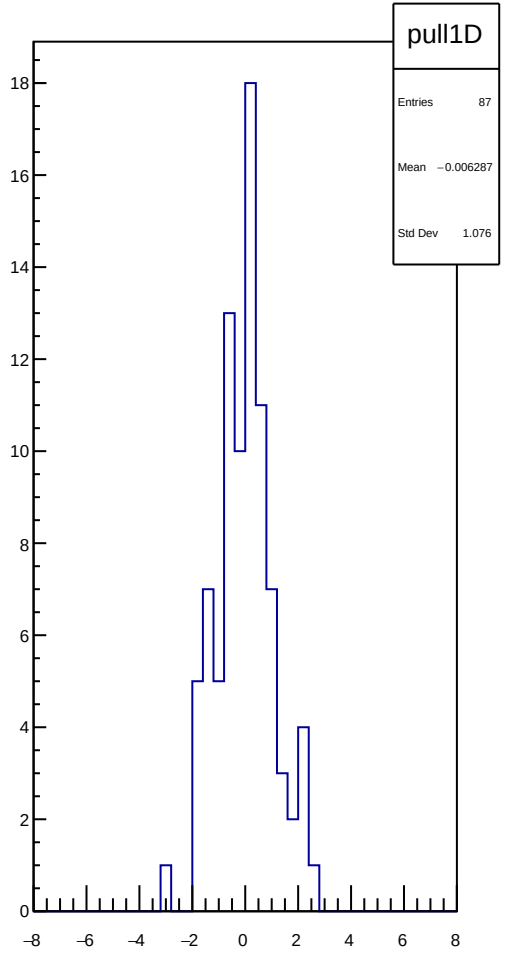

pull1D
Entries 87
Mean −0.006287
Std Dev 1.076

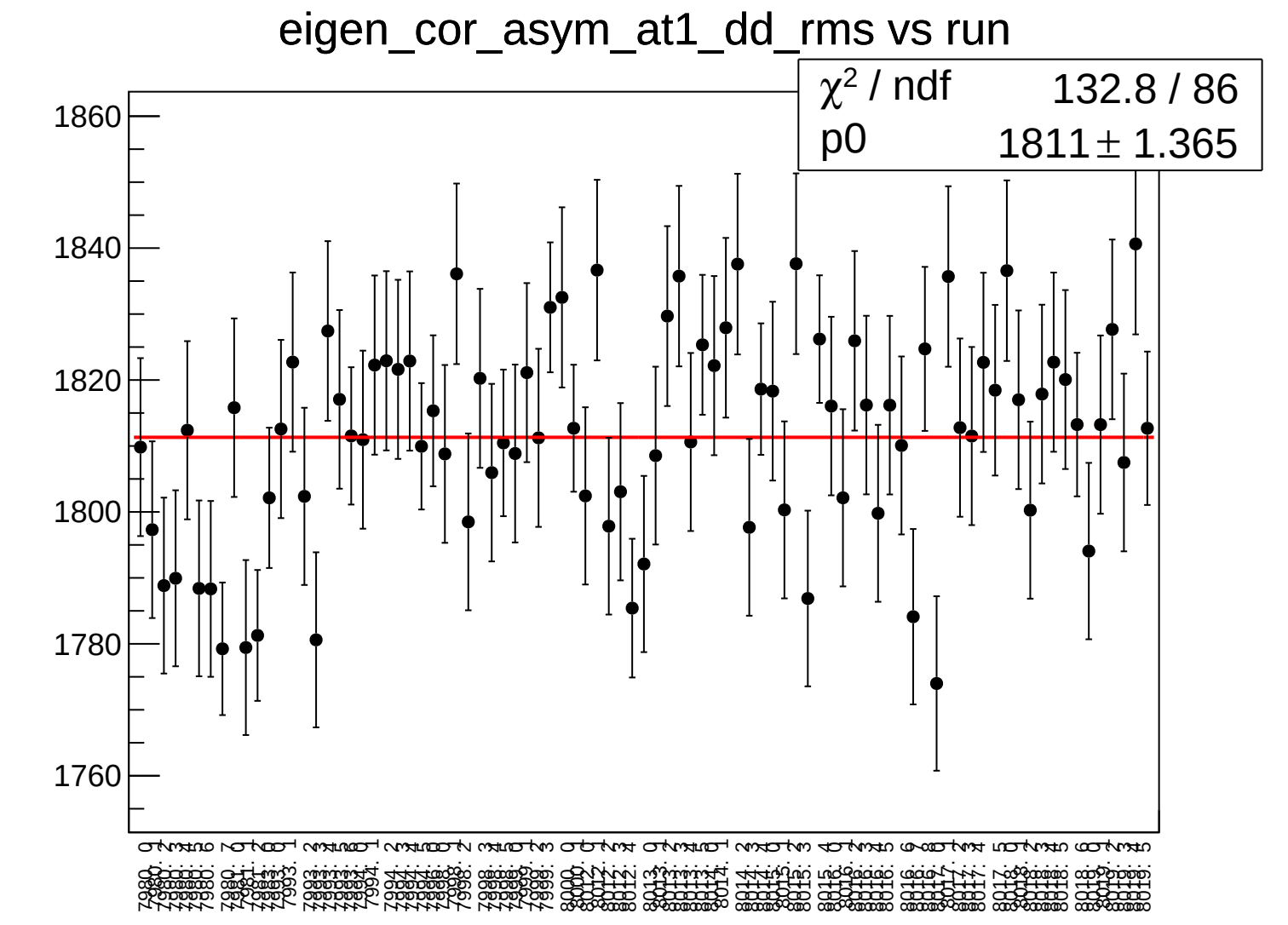

cor_asym_at1_dd_rms vs run
χ² / ndf 132.8 / 86
p0 1811 ± 1.365
1860
1840
1820
1800
1780
1760

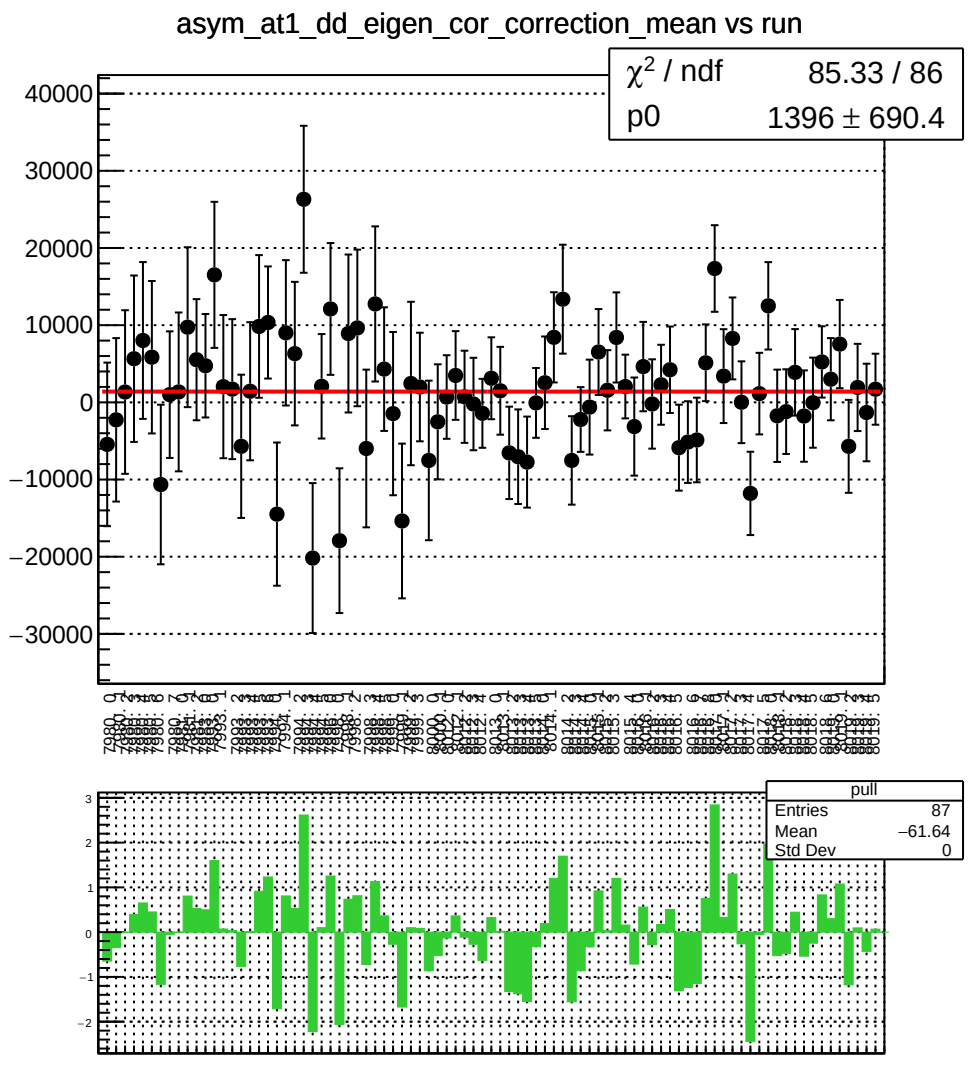

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 85.33 / 86
p0 1396 ± 690.4
pull
Entries 87
Mean −61.64
Std Dev 0
pull1D
Entries 87
Mean 0.008564
Std Dev 0.9903

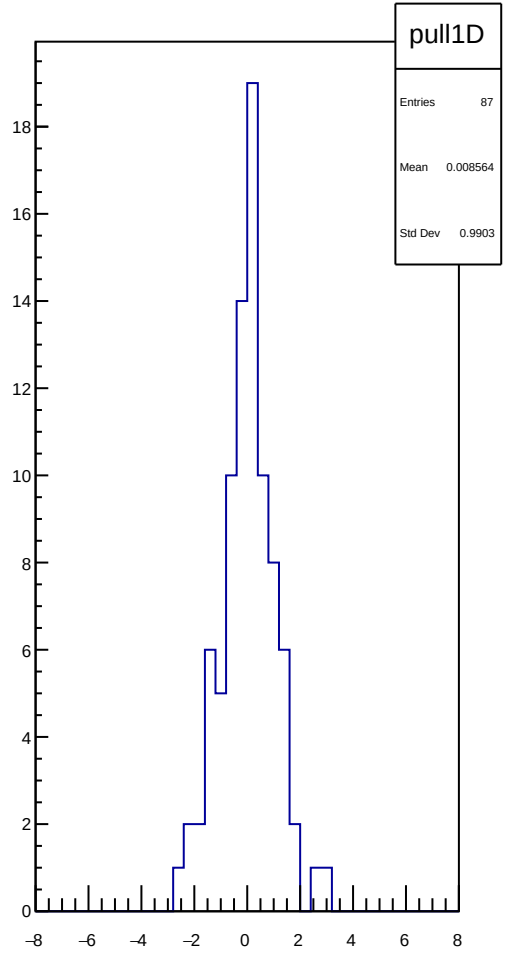

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.165e+05 / 86
p0 626 ± 0.4882
1000
900
800
700
600
500

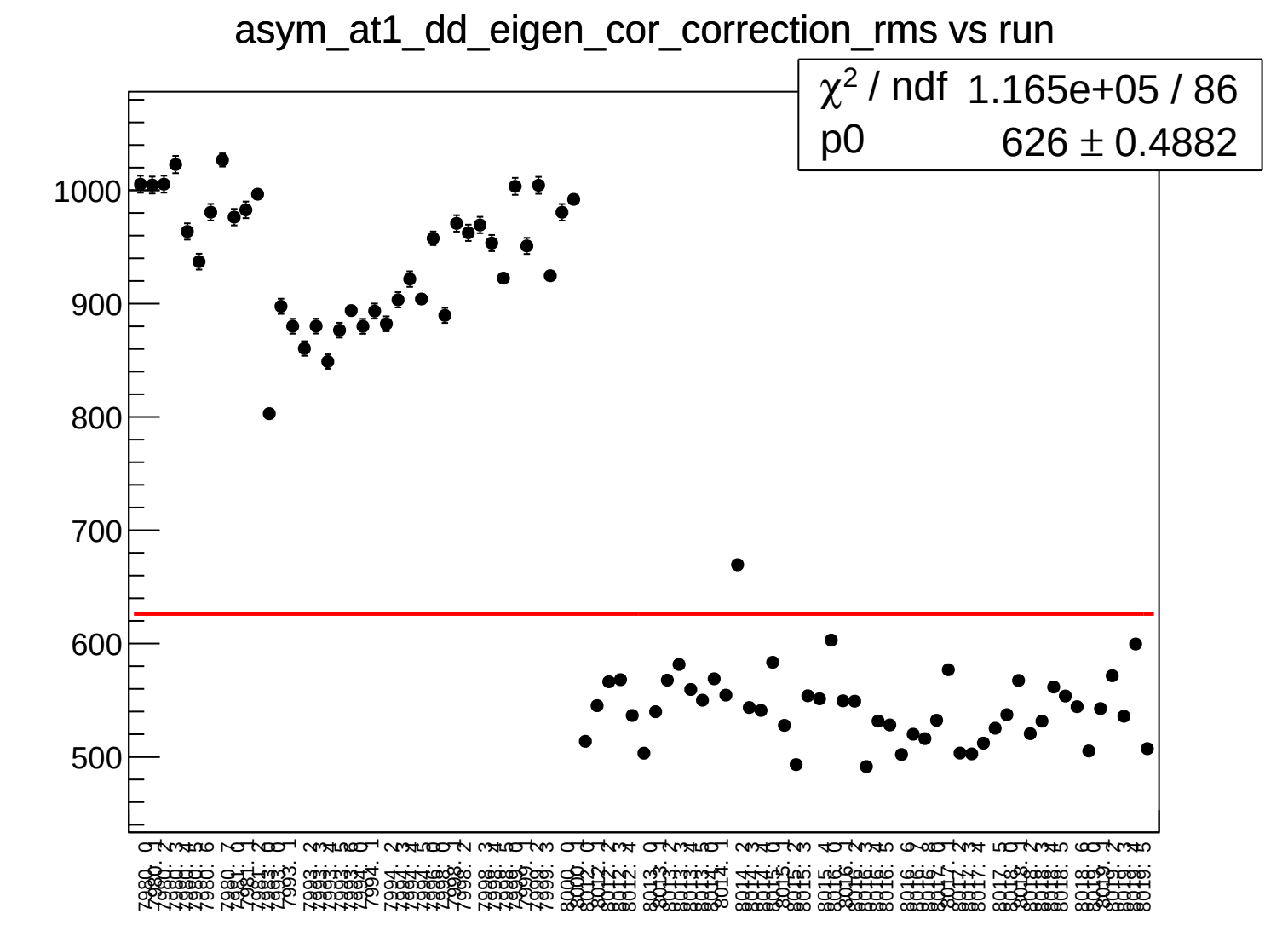

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 100.7 / 86
p0 98.67 ± 1931
pull
Entries 87
Mean −336.3
Std Dev 0

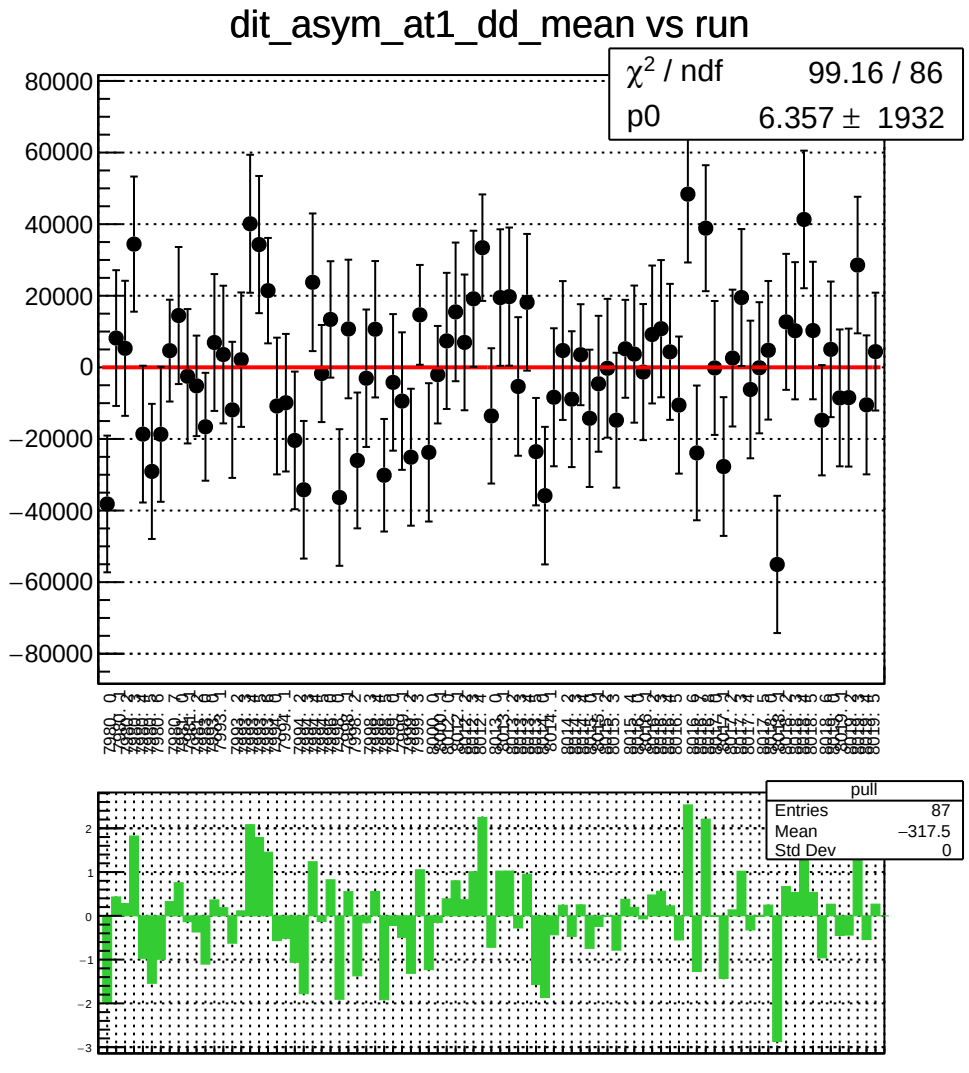

pull1D
Entries 87
Mean −0.006287
Std Dev 1.076

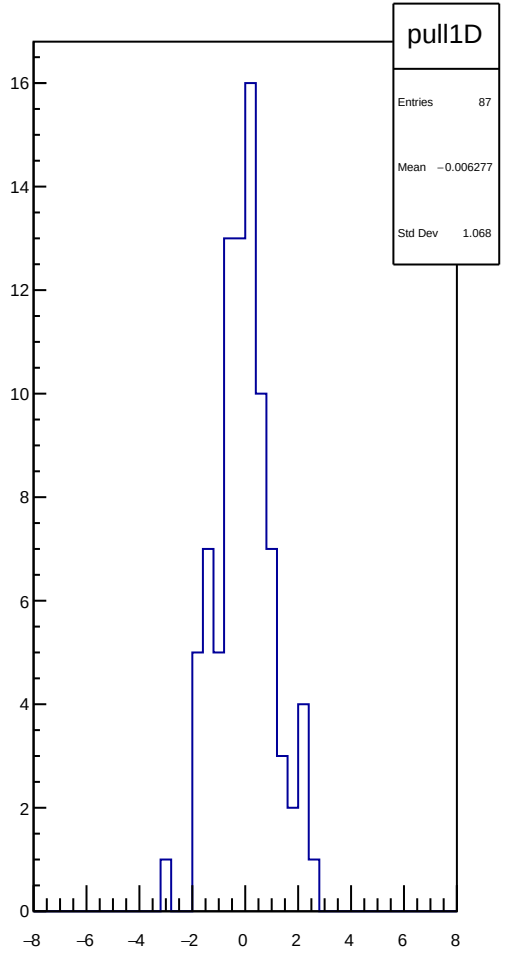

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 132.8 / 86
p0 1811 ± 1.365
1860
1840
1820
1800
1780
1760

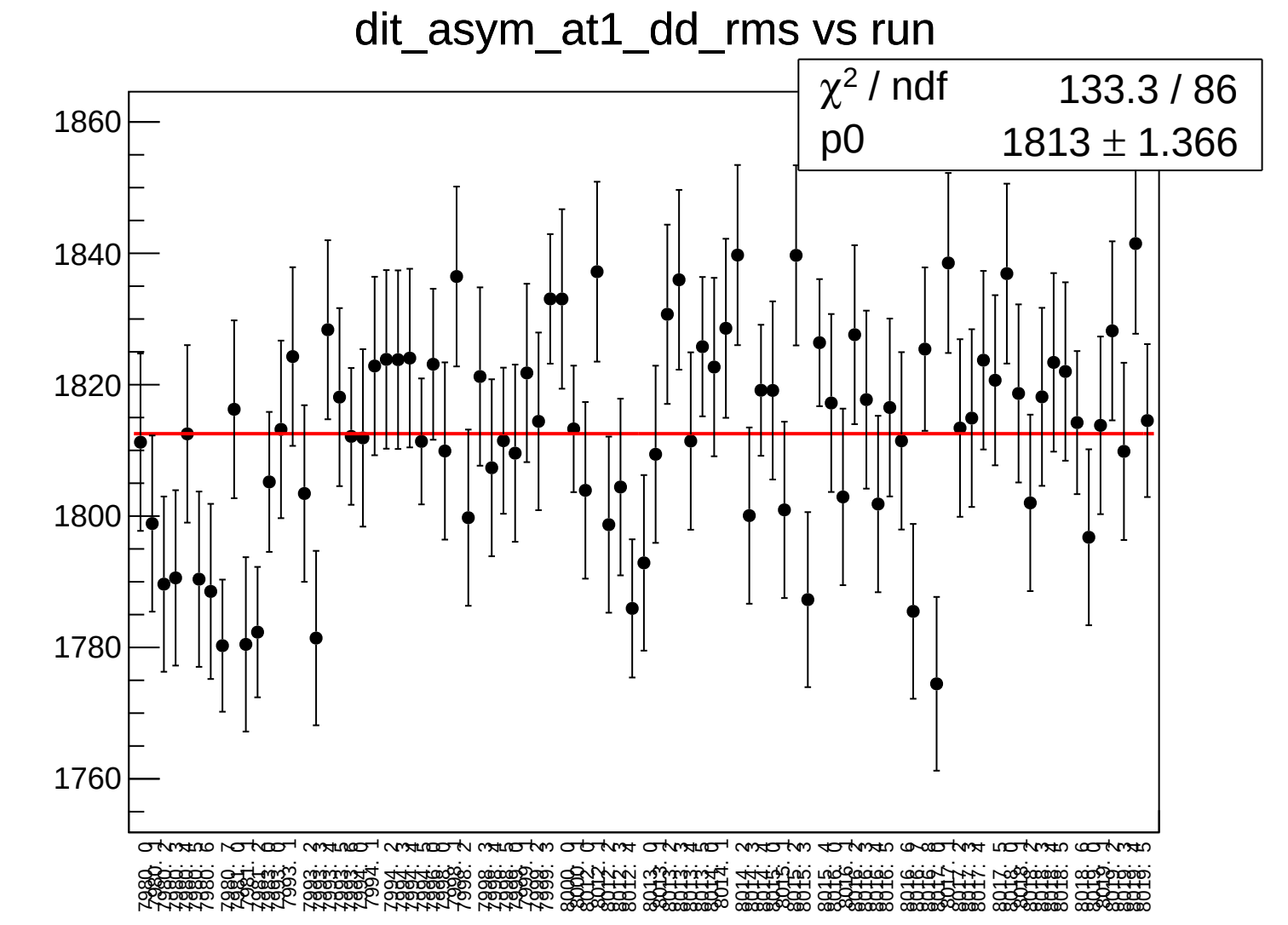

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.33 / 86
p0 1396 ± 690.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −61.64
Std Dev 0
3
2
1
0
−1
−2

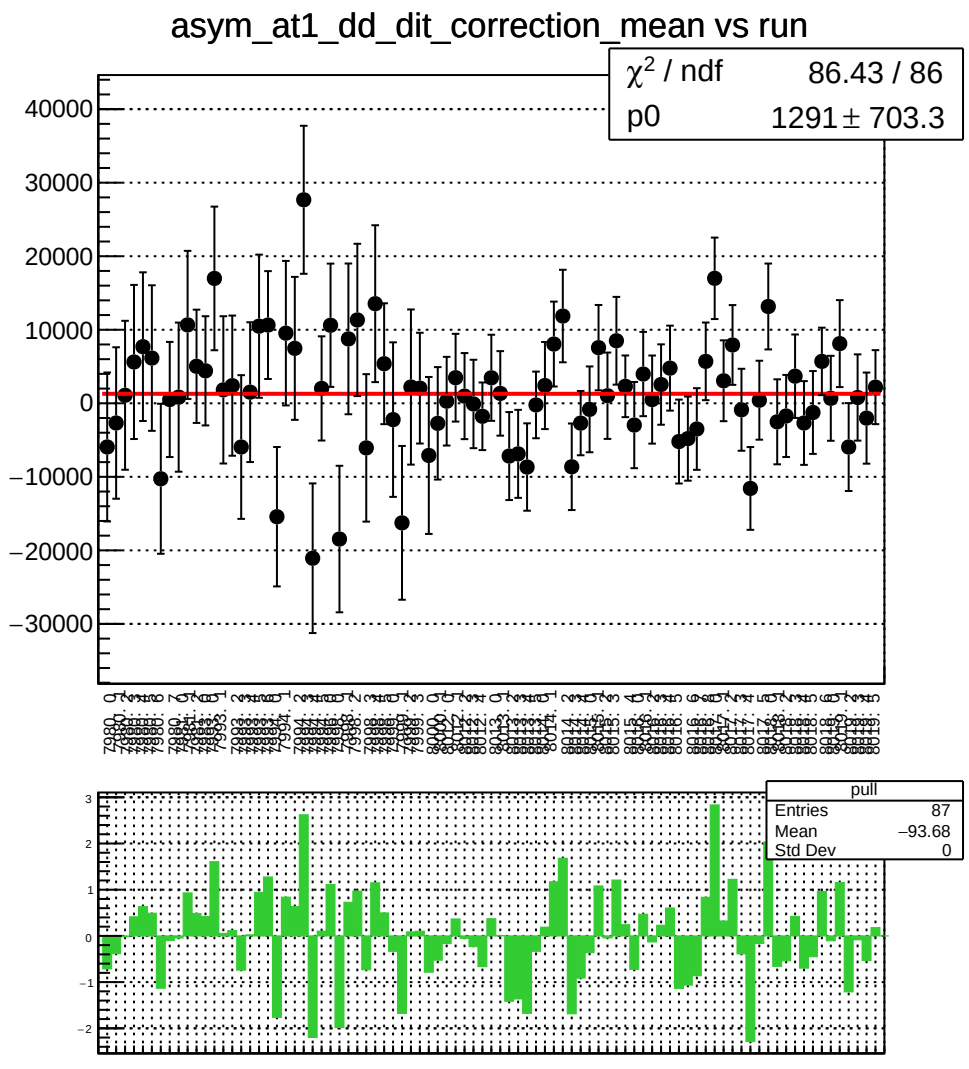

pull1D
Entries 87
Mean 0.008564
Std Dev 0.9903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

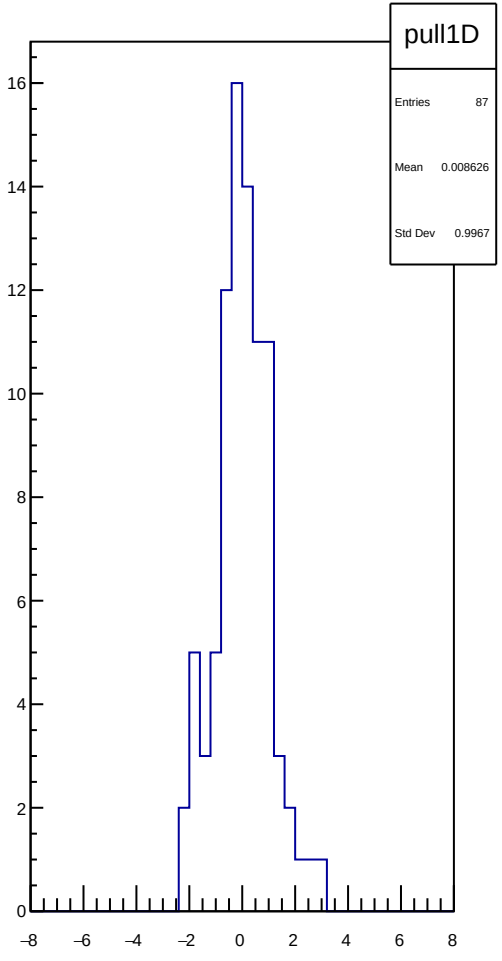

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.165e+05 / 86
p0 626 ± 0.4882
1000
900
800
700
600
500

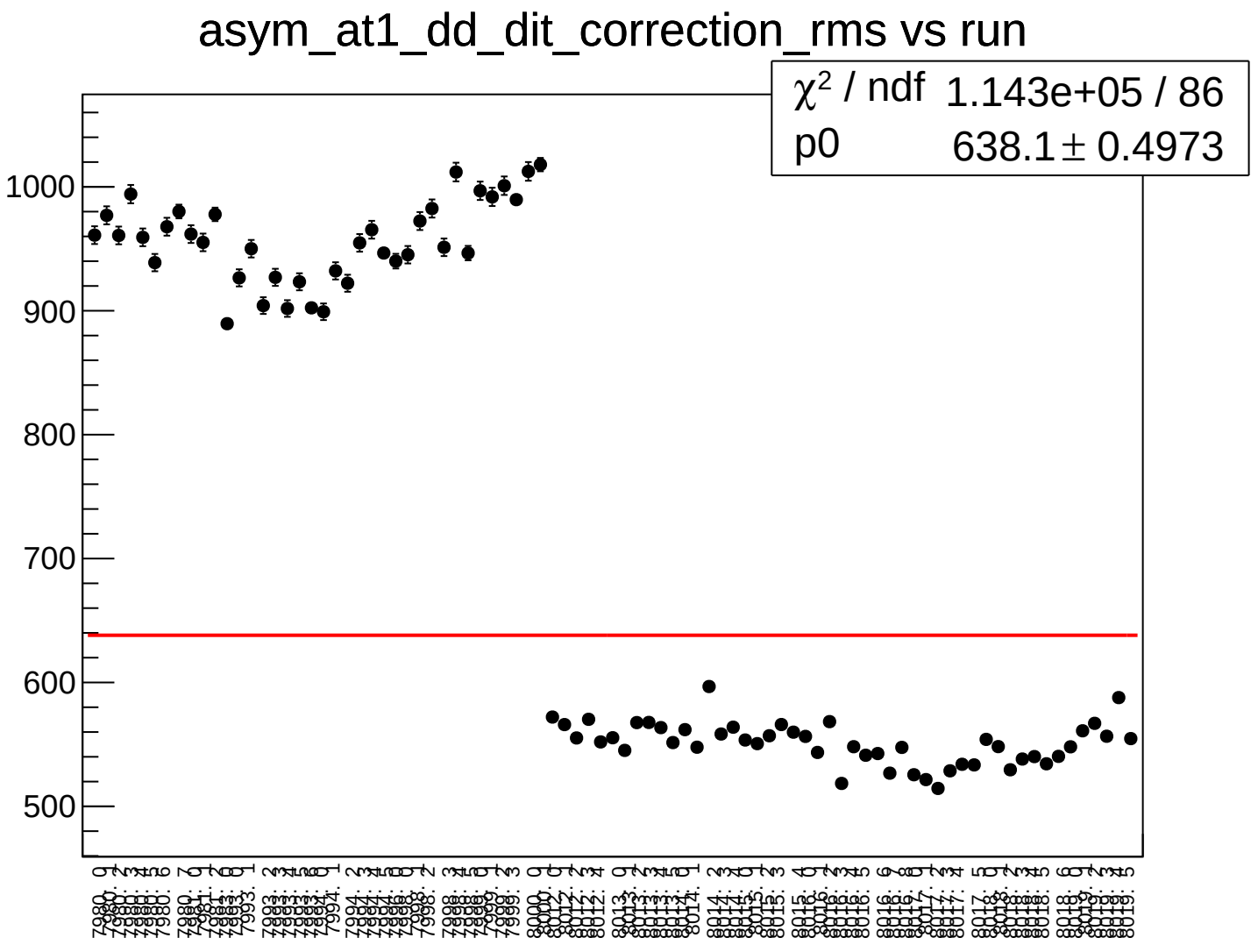

dit_asym_at1_dd_mean vs run
χ² / ndf 99.16 / 86
p0 6.357 ± 1932
pull
Entries 87
Mean −317.5
Std Dev 0

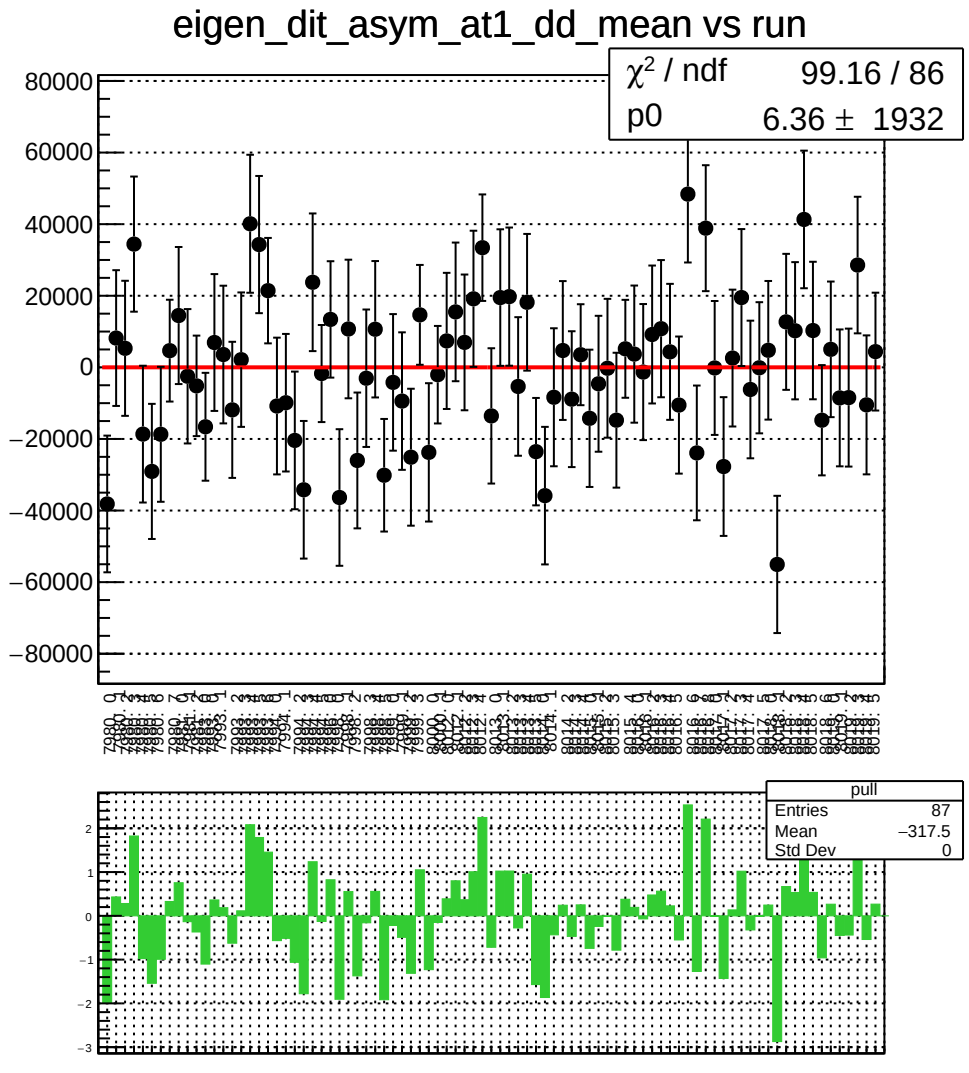

pull1D
Entries 87
Mean −0.006277
Std Dev 1.068

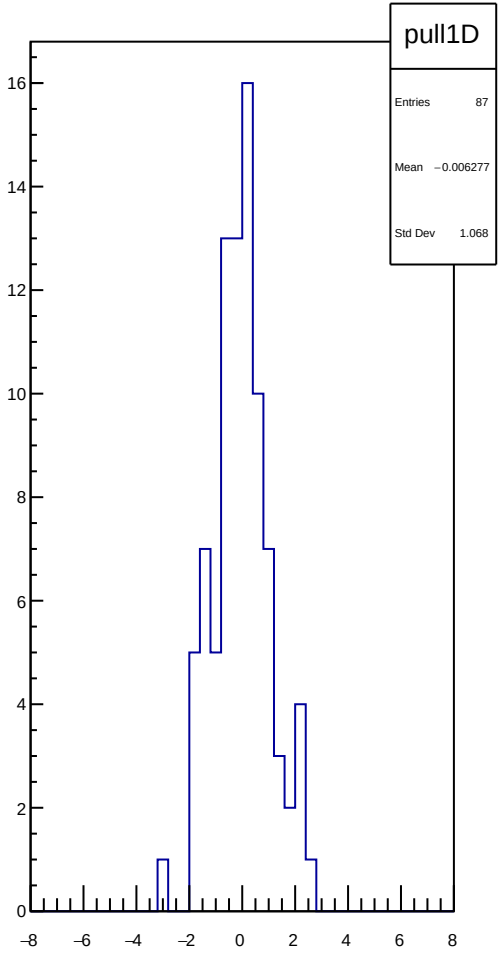

dit_asym_at1_dd_rms vs run
χ² / ndf 133.3 / 86
p0 1813 ± 1.366
1860
1840
1820
1800
1780
1760

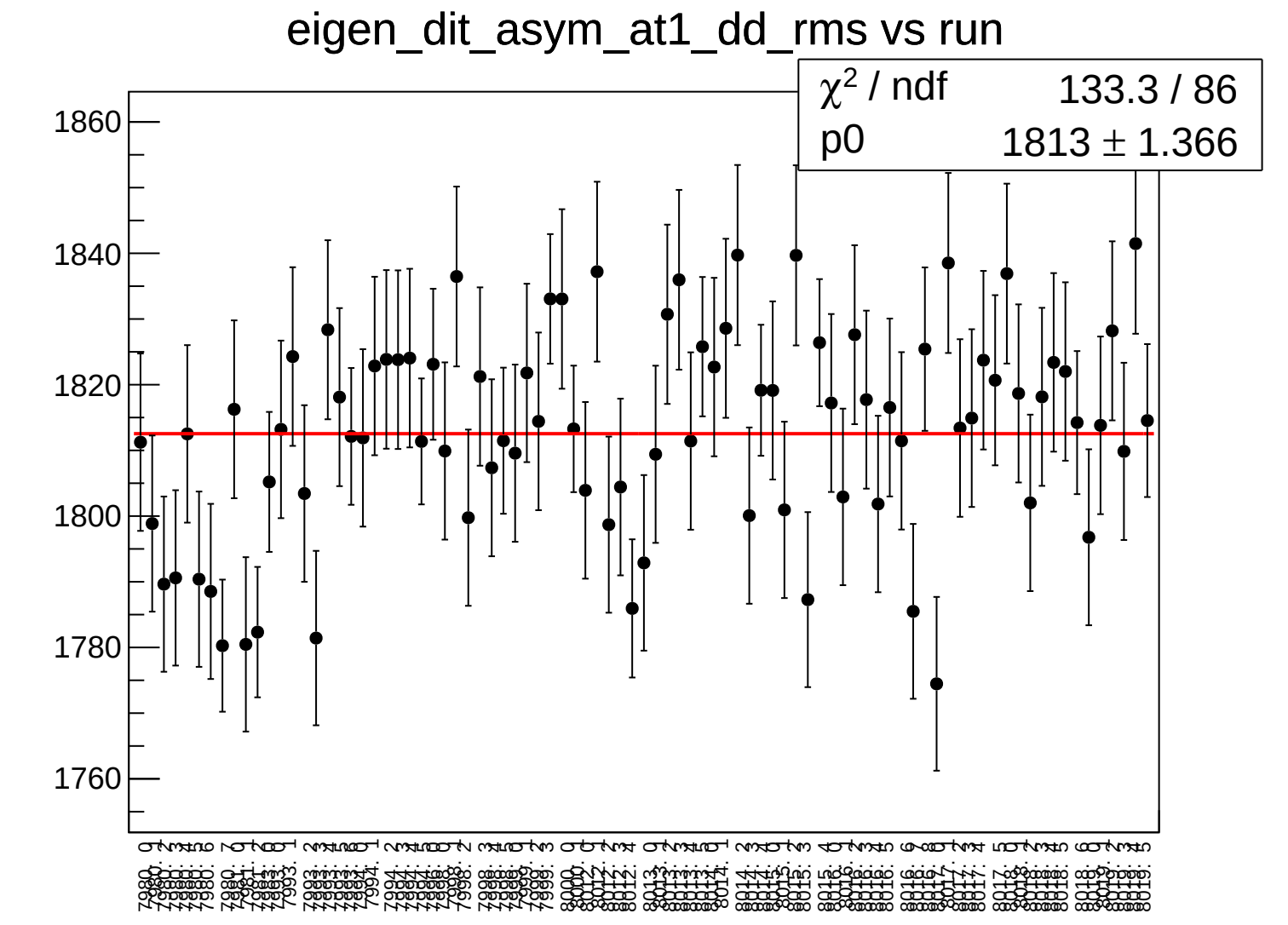

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 86.43 / 86
p0 1291 ± 703.3
pull
Entries 87
Mean −93.68
Std Dev 0

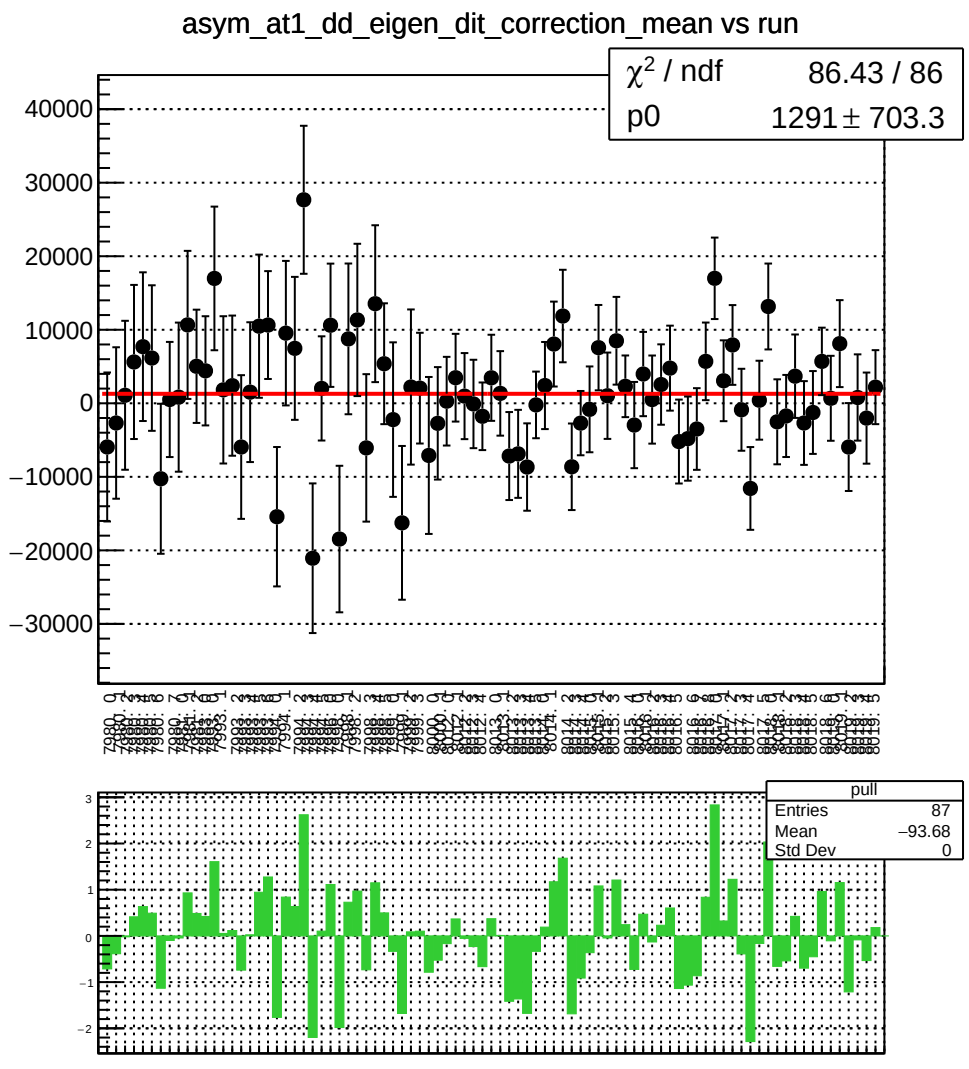

pull1D
Entries 87
Mean 0.008626
Std Dev 0.9967

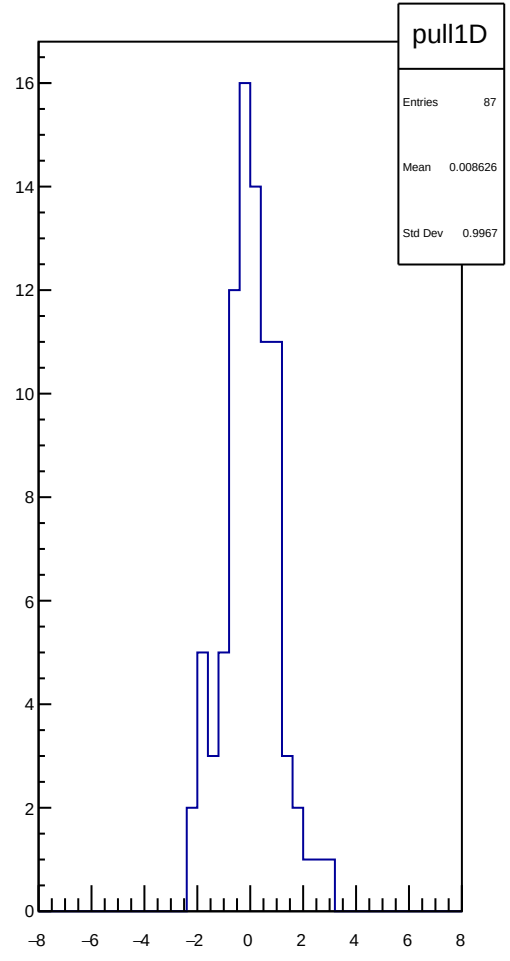

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.143e+05 / 86
p0 638.1 ± 0.4973
1000
900
800
700
600
500

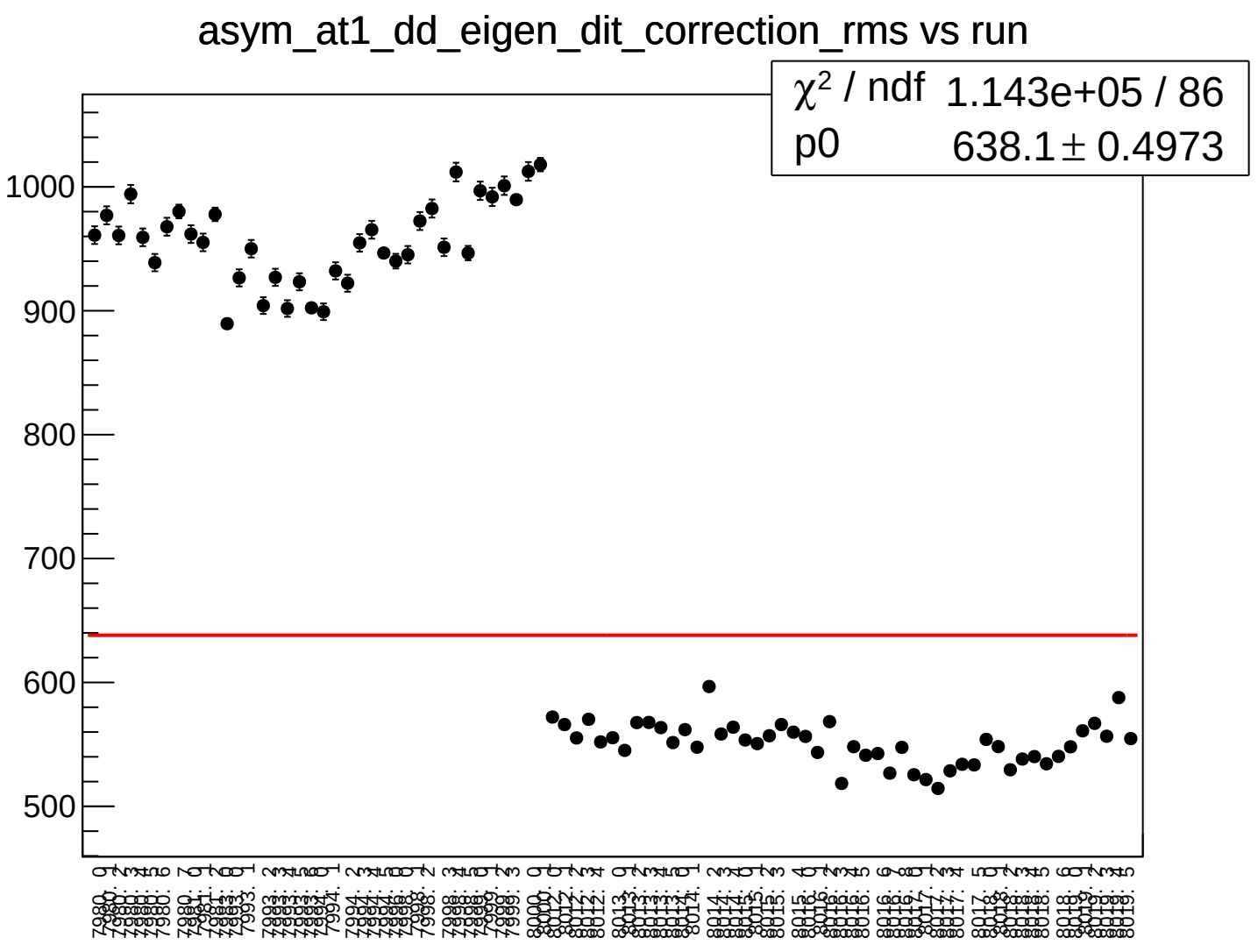

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 99.16 / 86
p0 6.36 ± 1932
pull
Entries 87
Mean −317.5
Std Dev 0

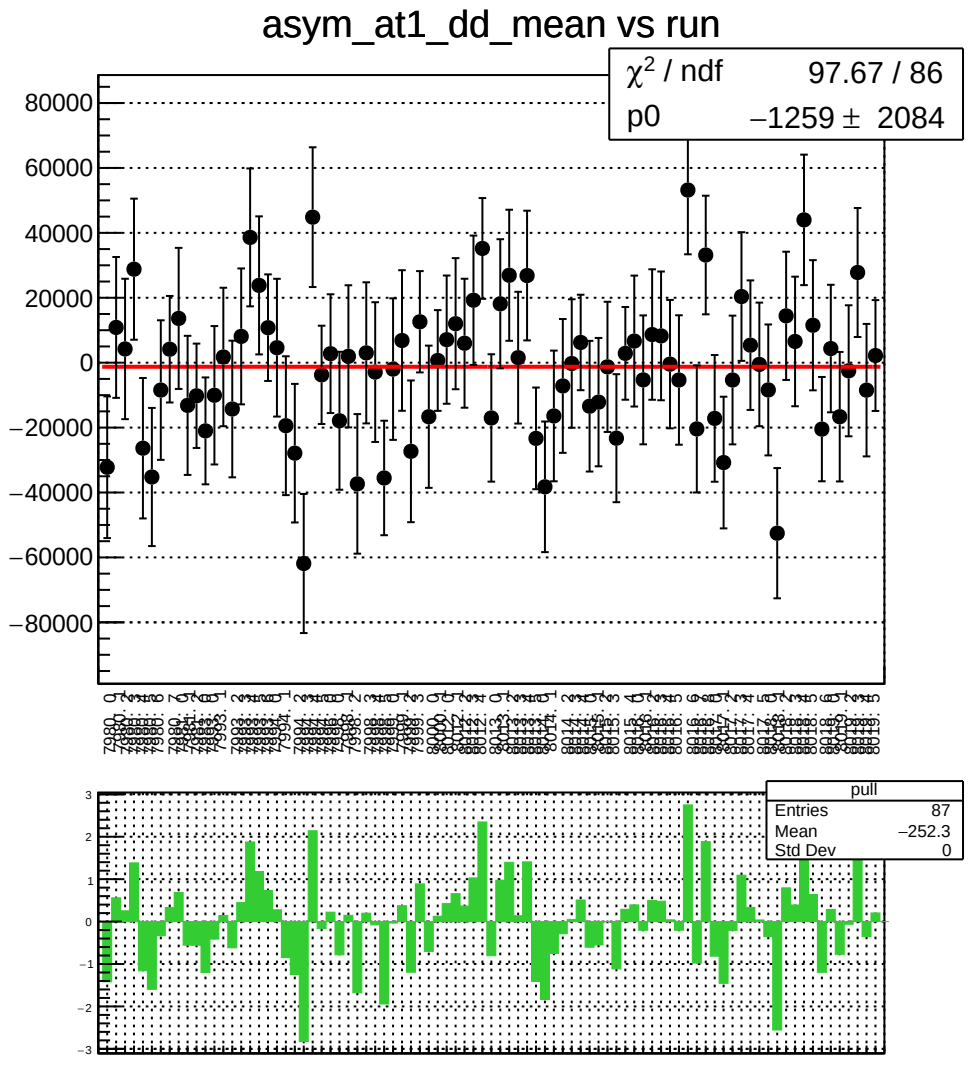

pull1D
Entries 87
Mean −0.006277
Std Dev 1.068

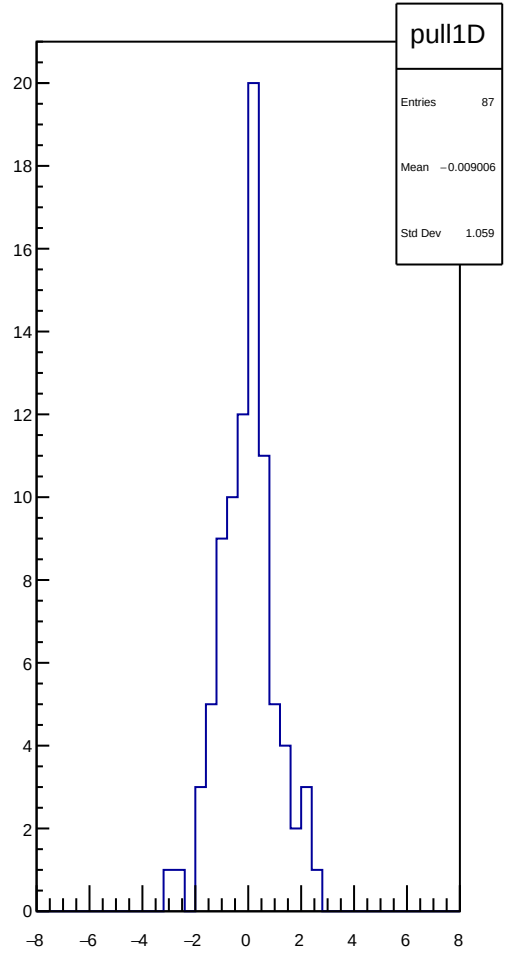

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 133.3 / 86
p0 1813 ± 1.366
1860
1840
1820
1800
1780
1760

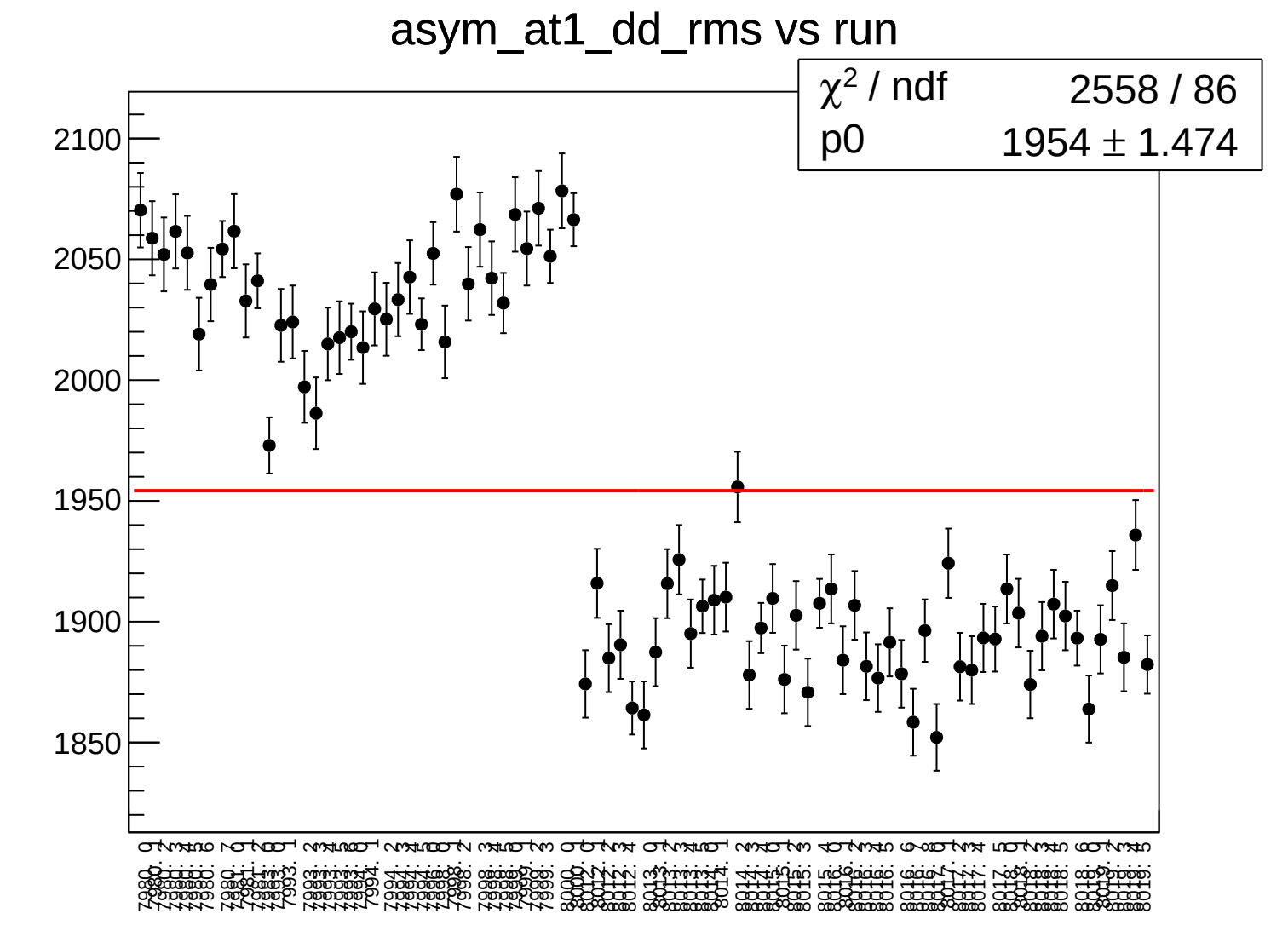

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.43 / 86
p0 1291 ± 703.3
pull
Entries 87
Mean −93.68
Std Dev 0

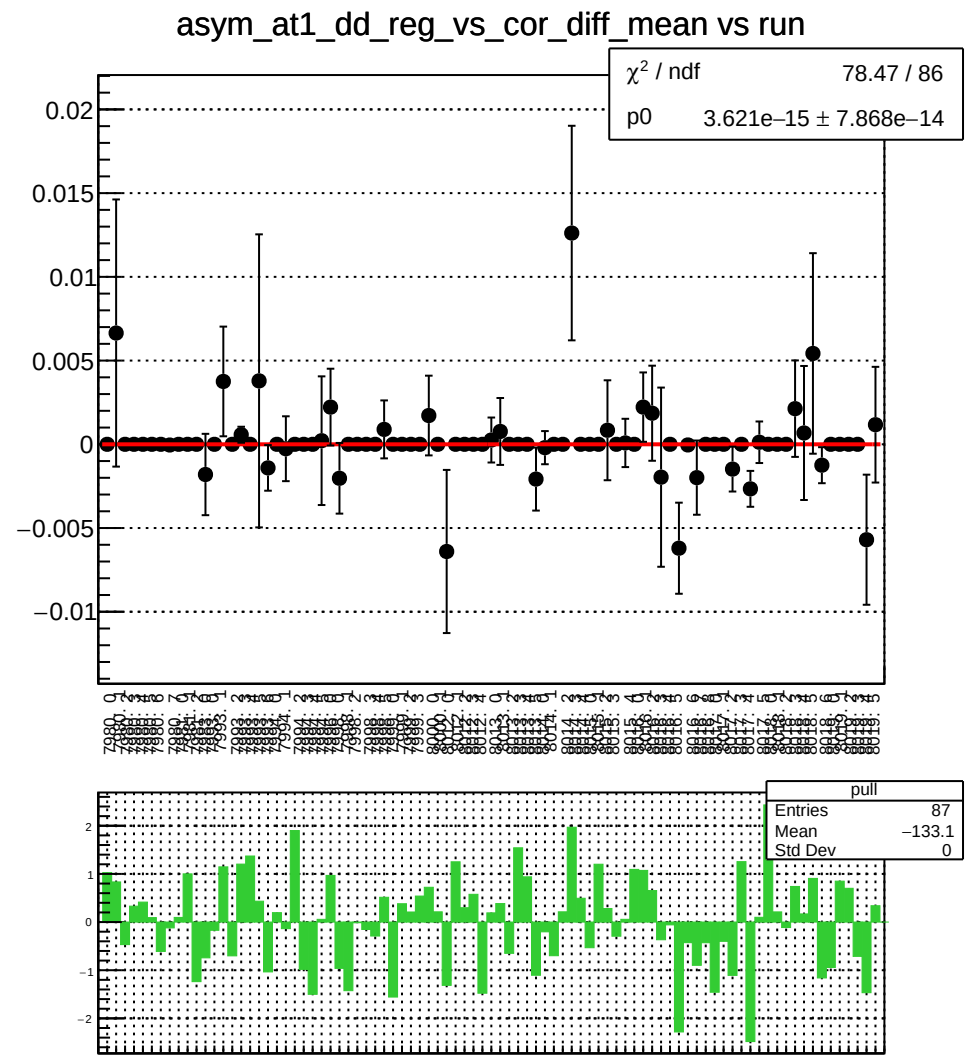

pull1D
Entries 87
Mean 0.008626
Std Dev 0.9967

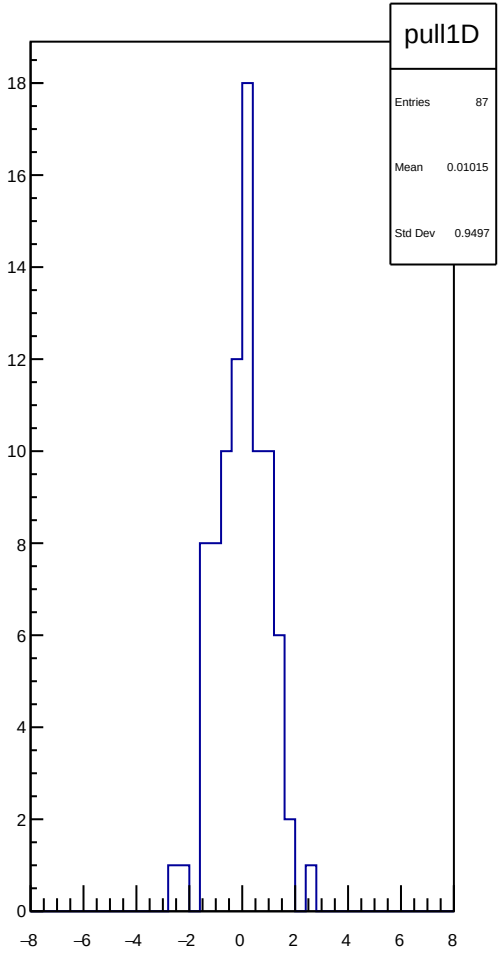

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.143e+05 / 86
p0 638.1 ± 0.4973
1000
900
800
700
600
500

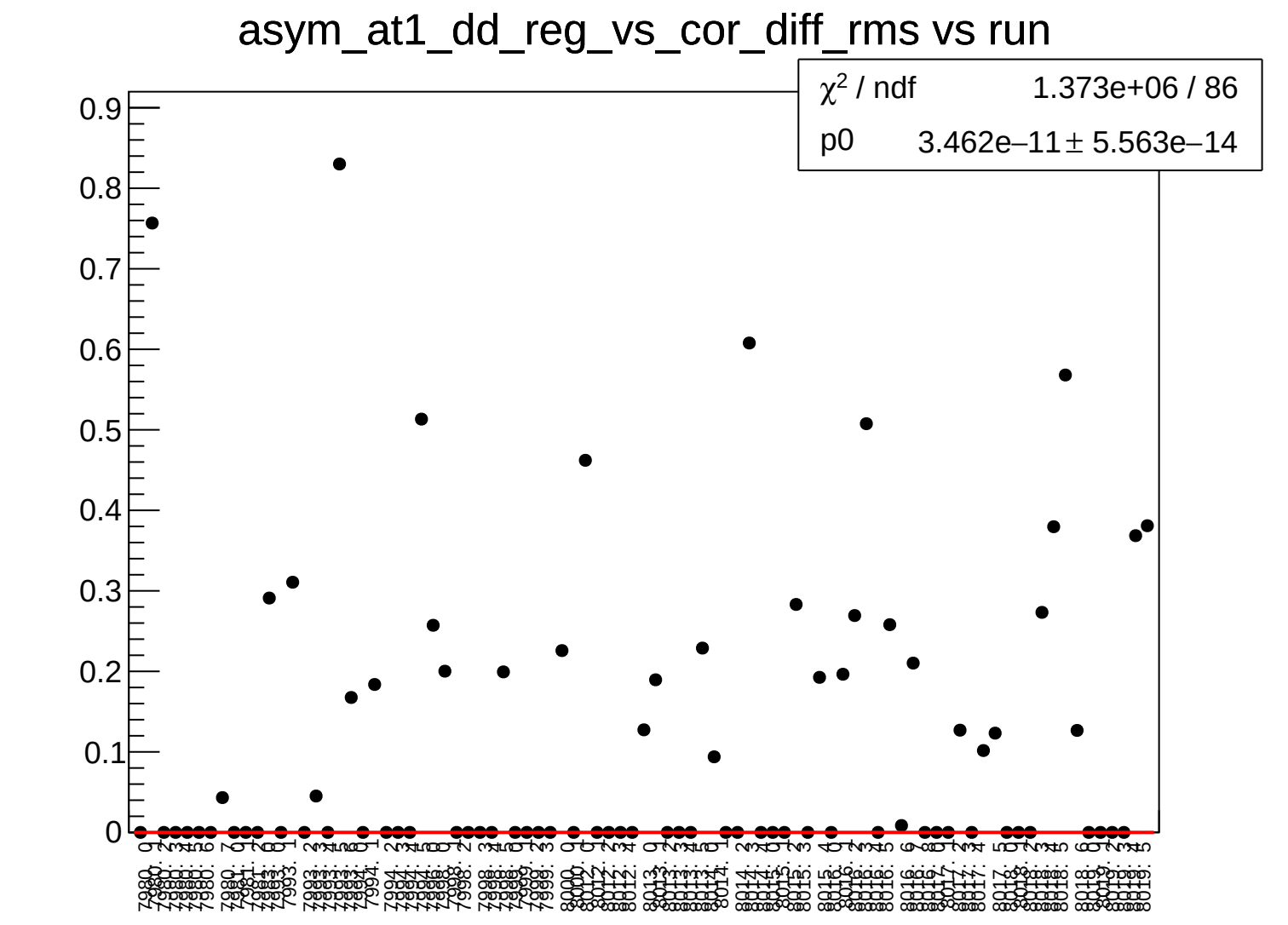

asym_at1_dd_mean vs run
χ² / ndf 97.67 / 86
p0 −1259 ± 2084
pull
Entries 87
Mean −252.3
Std Dev 0

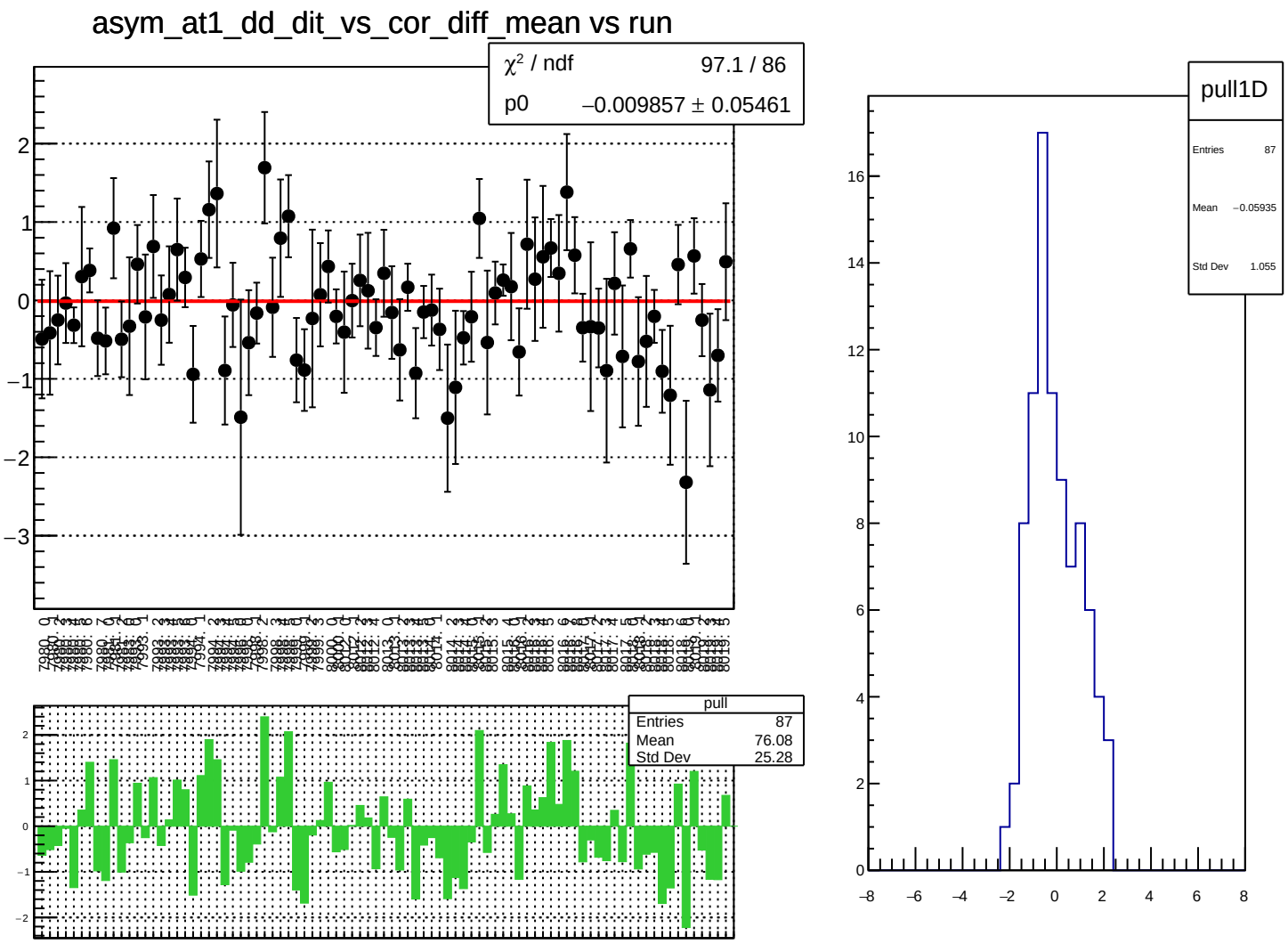

pull1D
Entries 87
Mean −0.009006
Std Dev 1.059

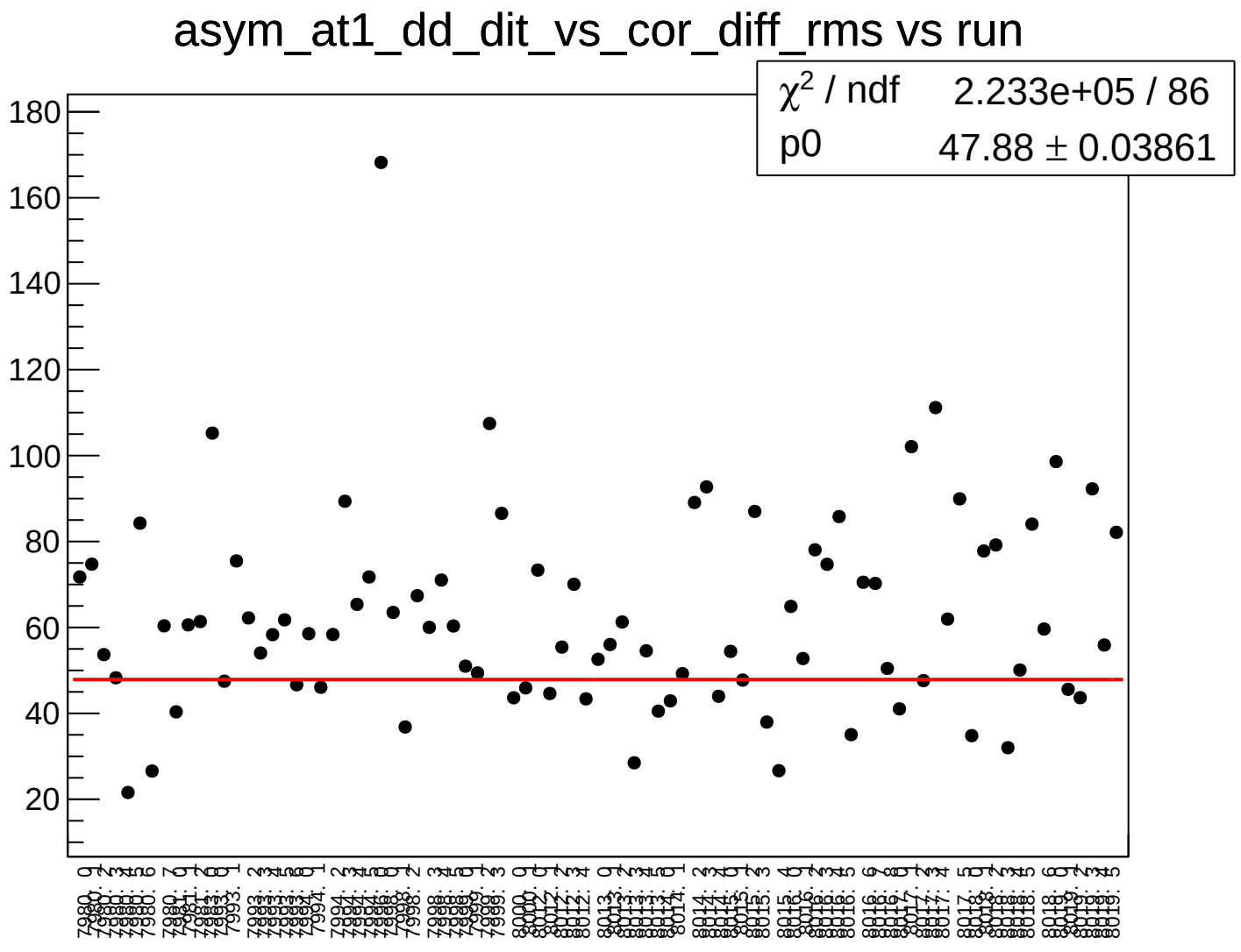

asym_at1_dd_rms vs run
χ² / ndf 2558 / 86
p0 1954 ± 1.474
2100
2050
2000
1950
1900
1850

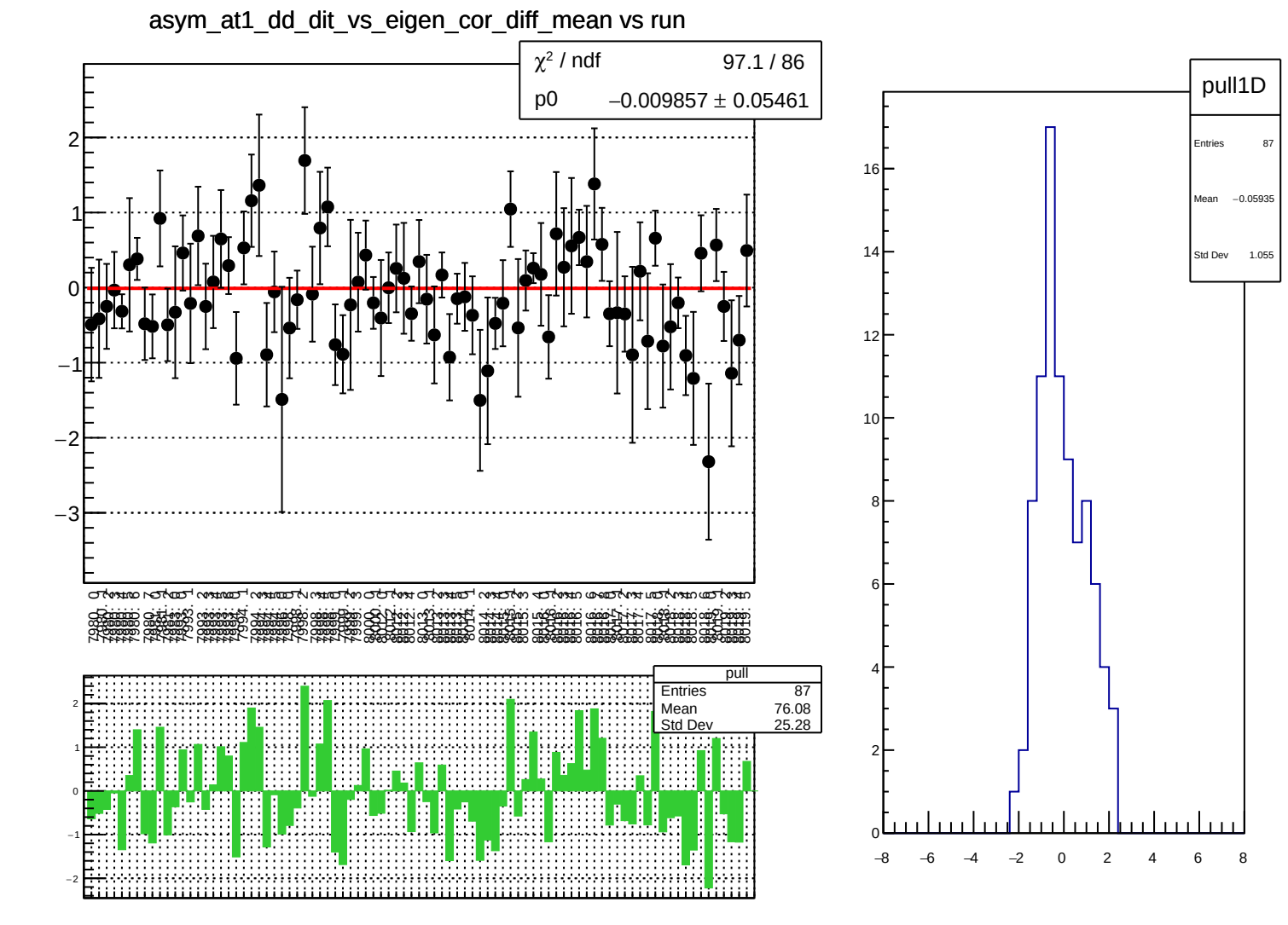

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.47 / 86
p0 3.621e−15 ± 7.868e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean −133.1
Std Dev 0
2
1
0
−1
−2

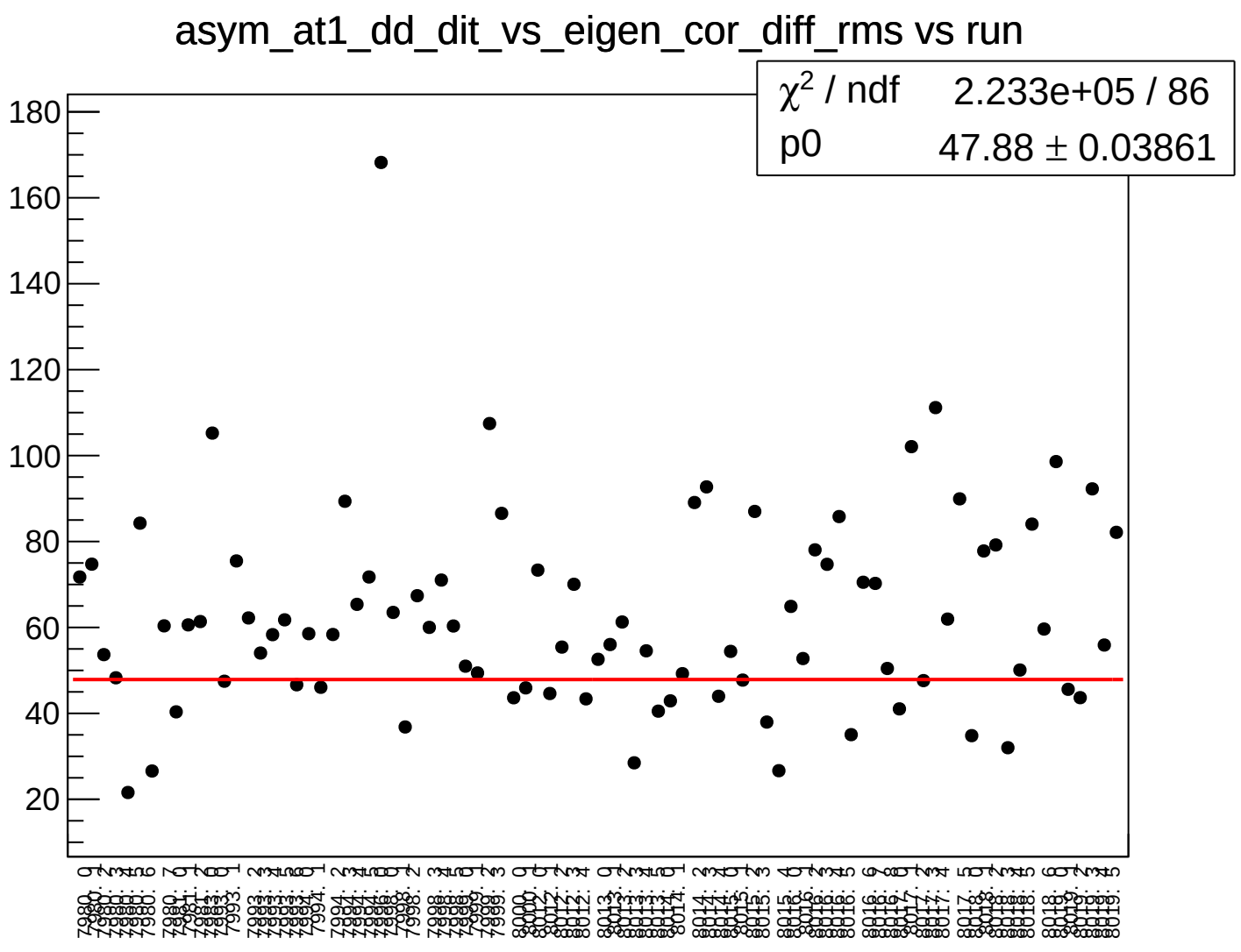

pull1D
Entries 87
Mean 0.01015
Std Dev 0.9497
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

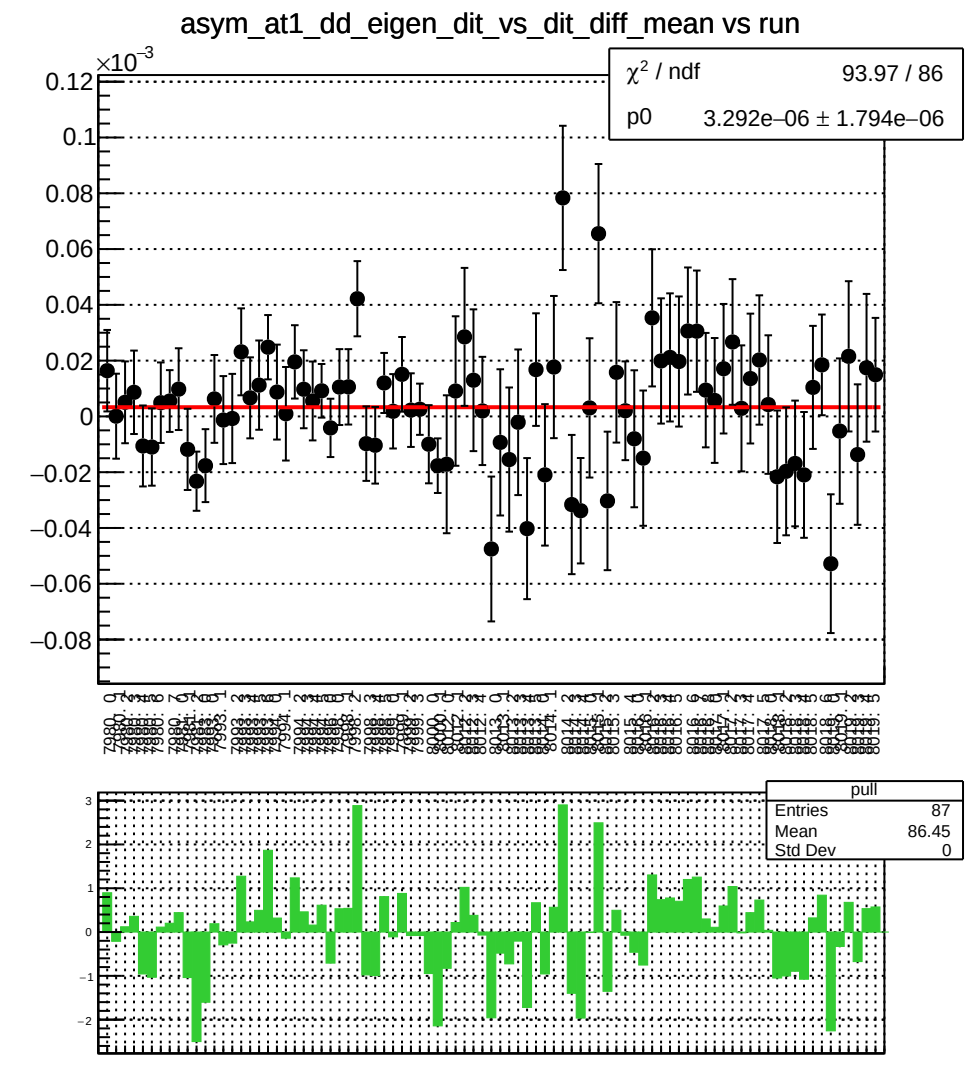

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.373e+06 / 86
p0 3.462e−11 ± 5.563e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

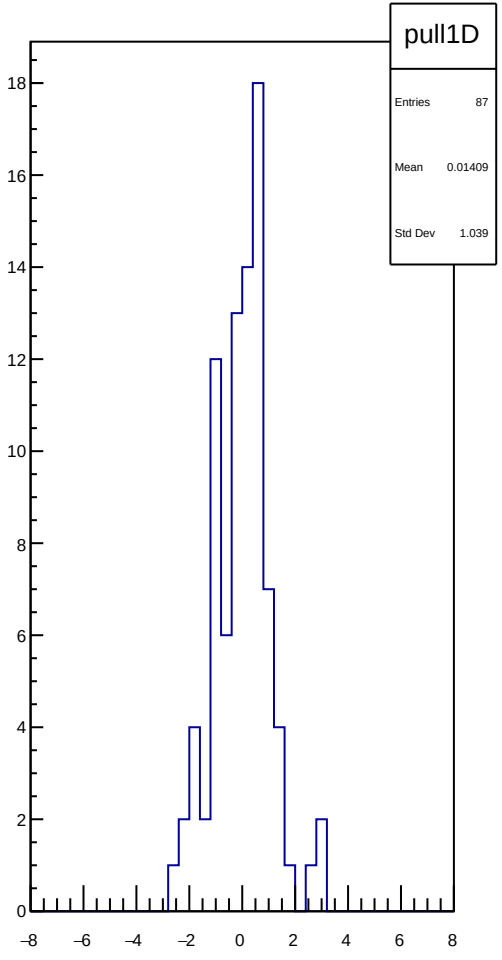

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.1 / 86
p0 −0.009857 ± 0.05461
pull
Entries 87
Mean 76.08
Std Dev 25.28
pull1D
Entries 87
Mean −0.05935
Std Dev 1.055

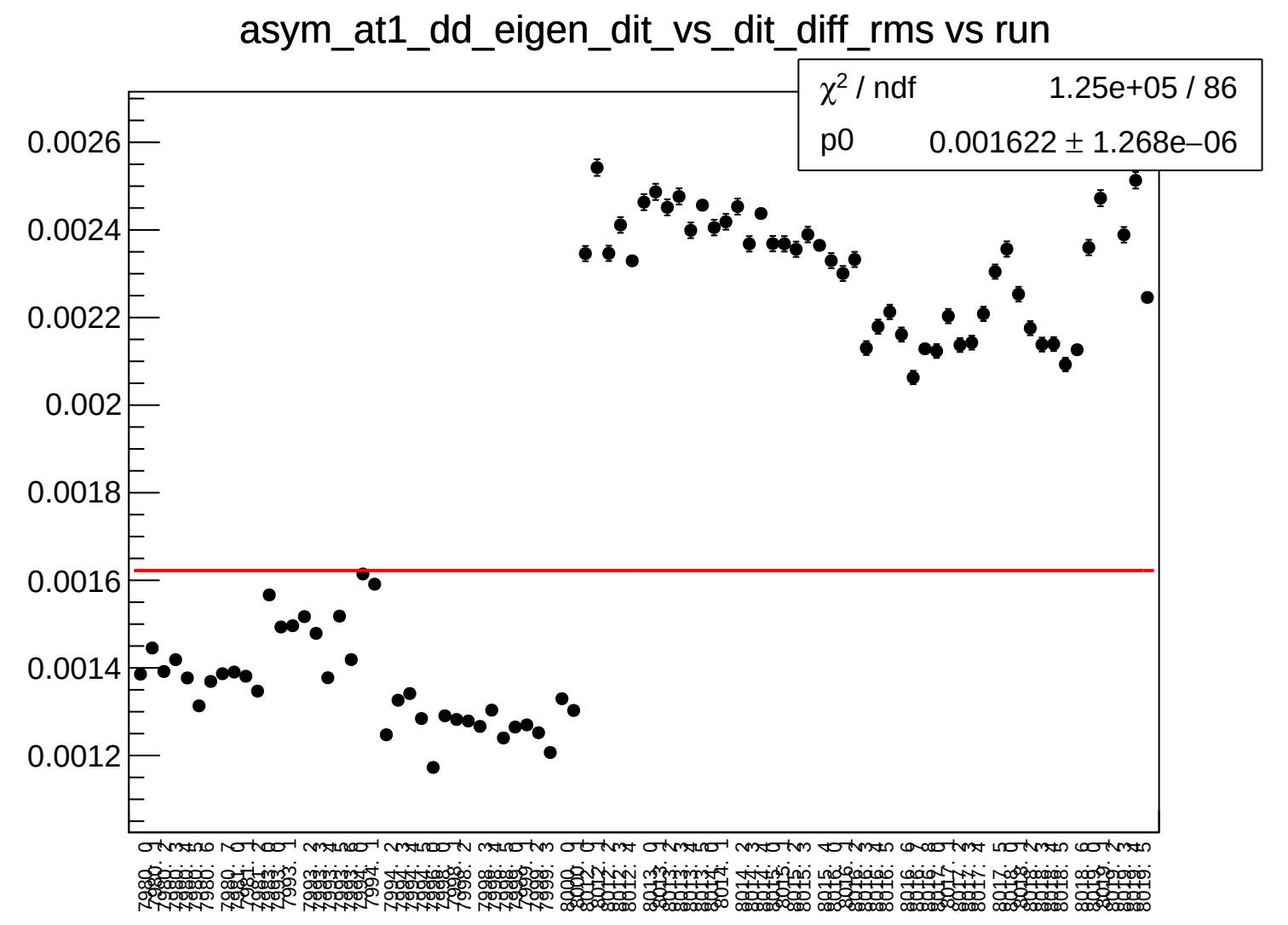

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.233e+05 / 86
p0 47.88 ± 0.03861
180
160
140
120
100
80
60
40
20

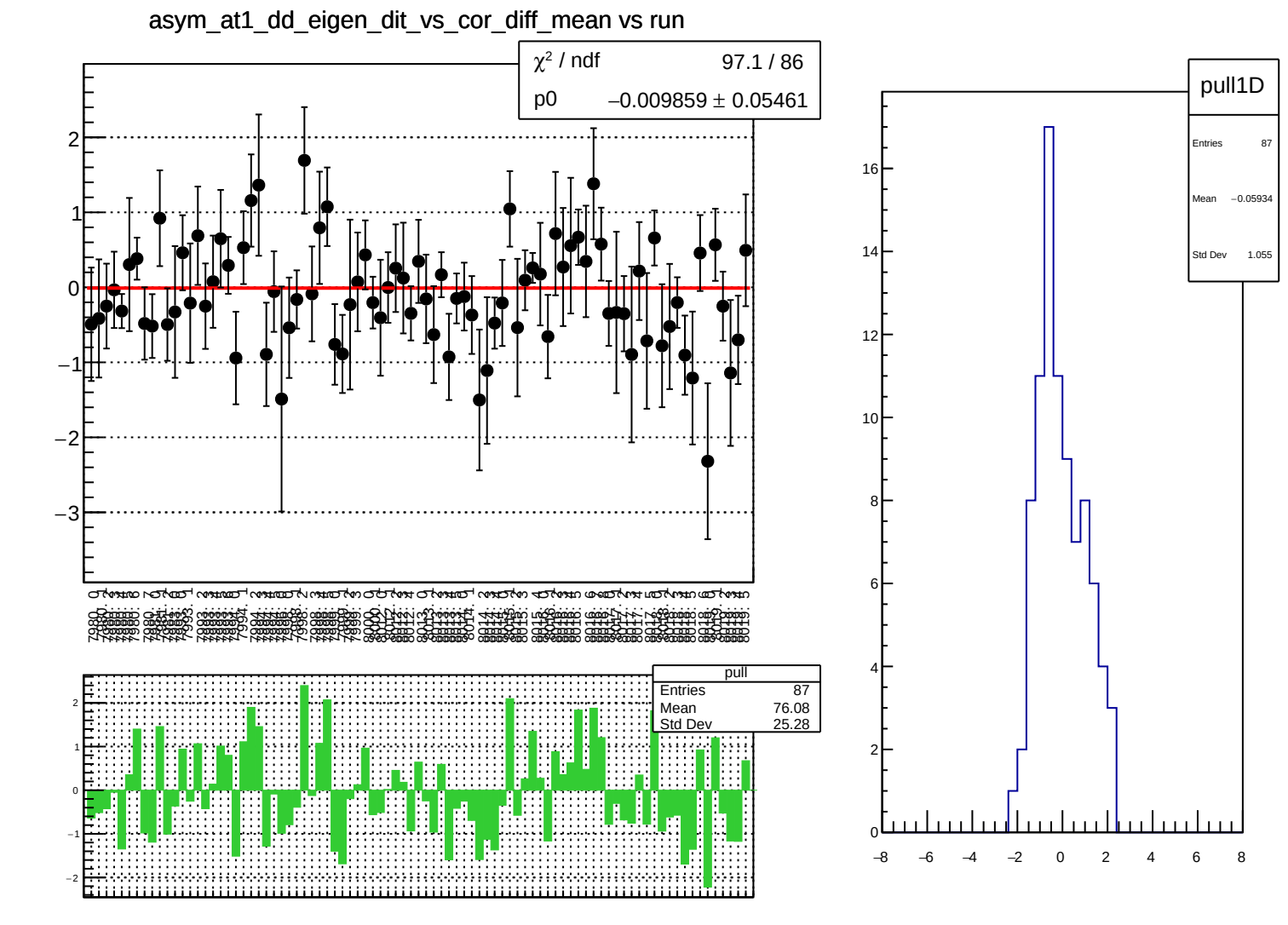

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.1 / 86
p0 −0.009857 ± 0.05461
pull
Entries 87
Mean 76.08
Std Dev 25.28
pull1D
Entries 87
Mean −0.05935
Std Dev 1.055

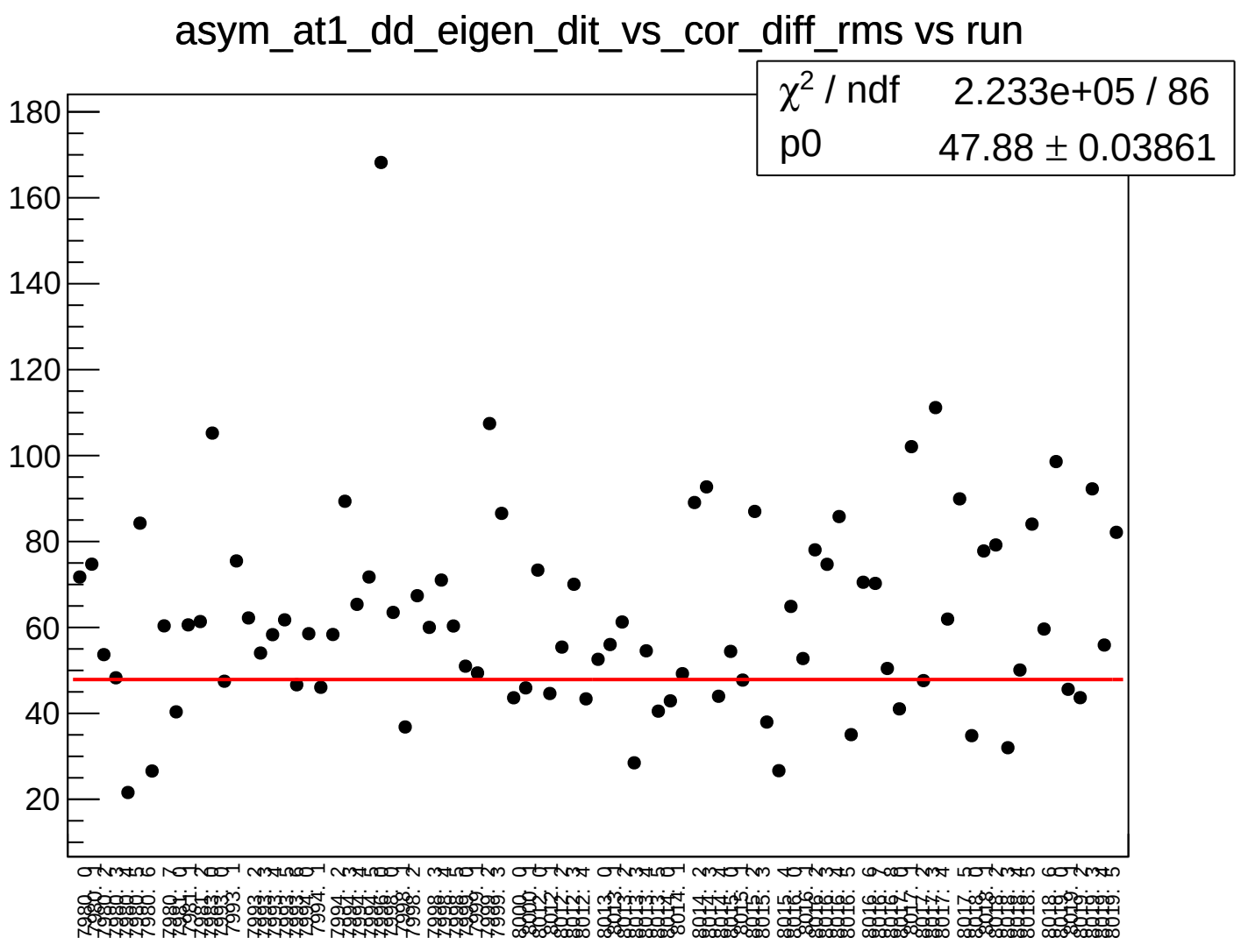

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.233e+05 / 86
p0 47.88 ± 0.03861
180
160
140
120
100
80
60
40
20

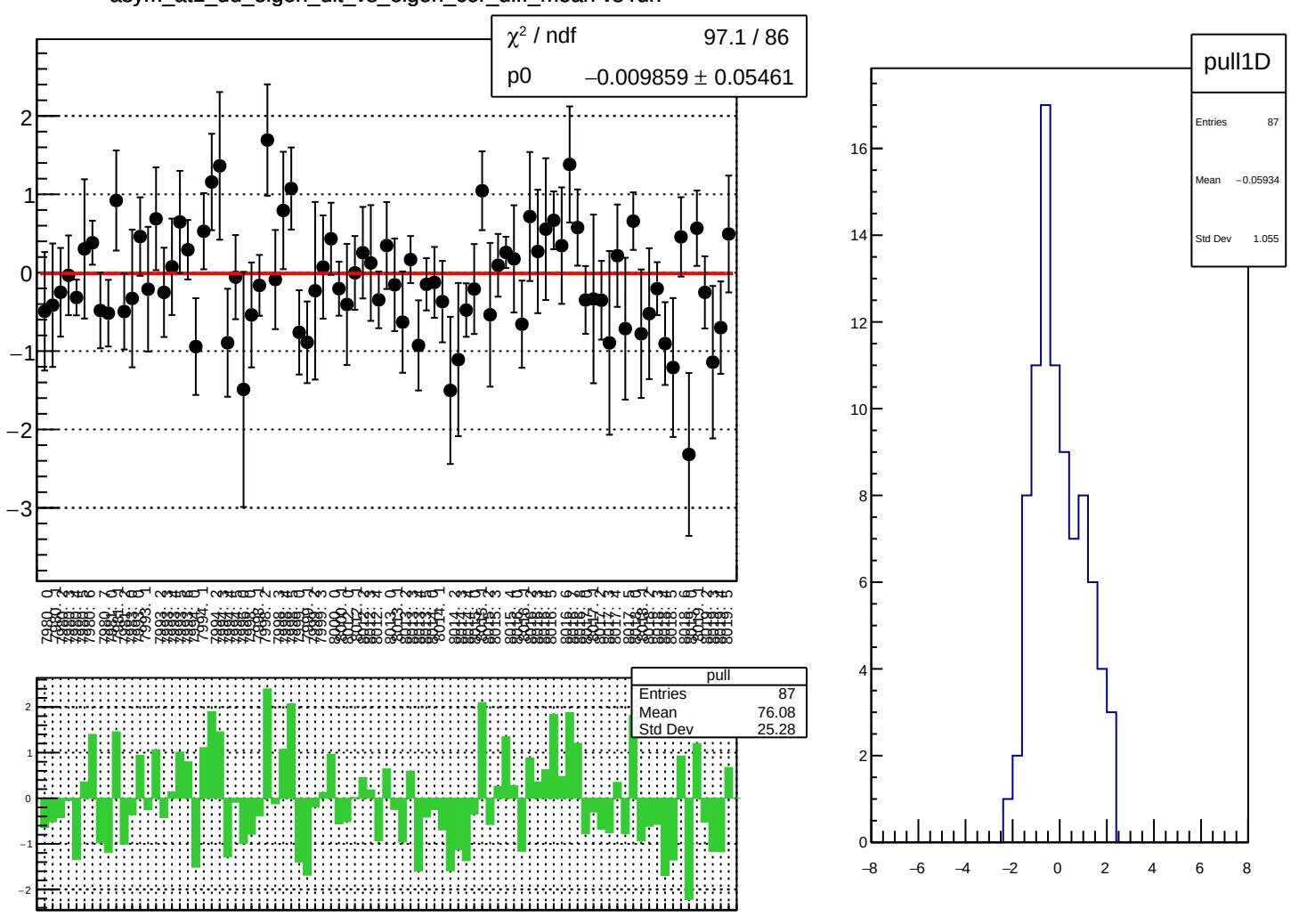

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.97 / 86
p0 3.292e−06 ± 1.794e−06
pull
Entries 87
Mean 86.45
Std Dev 0

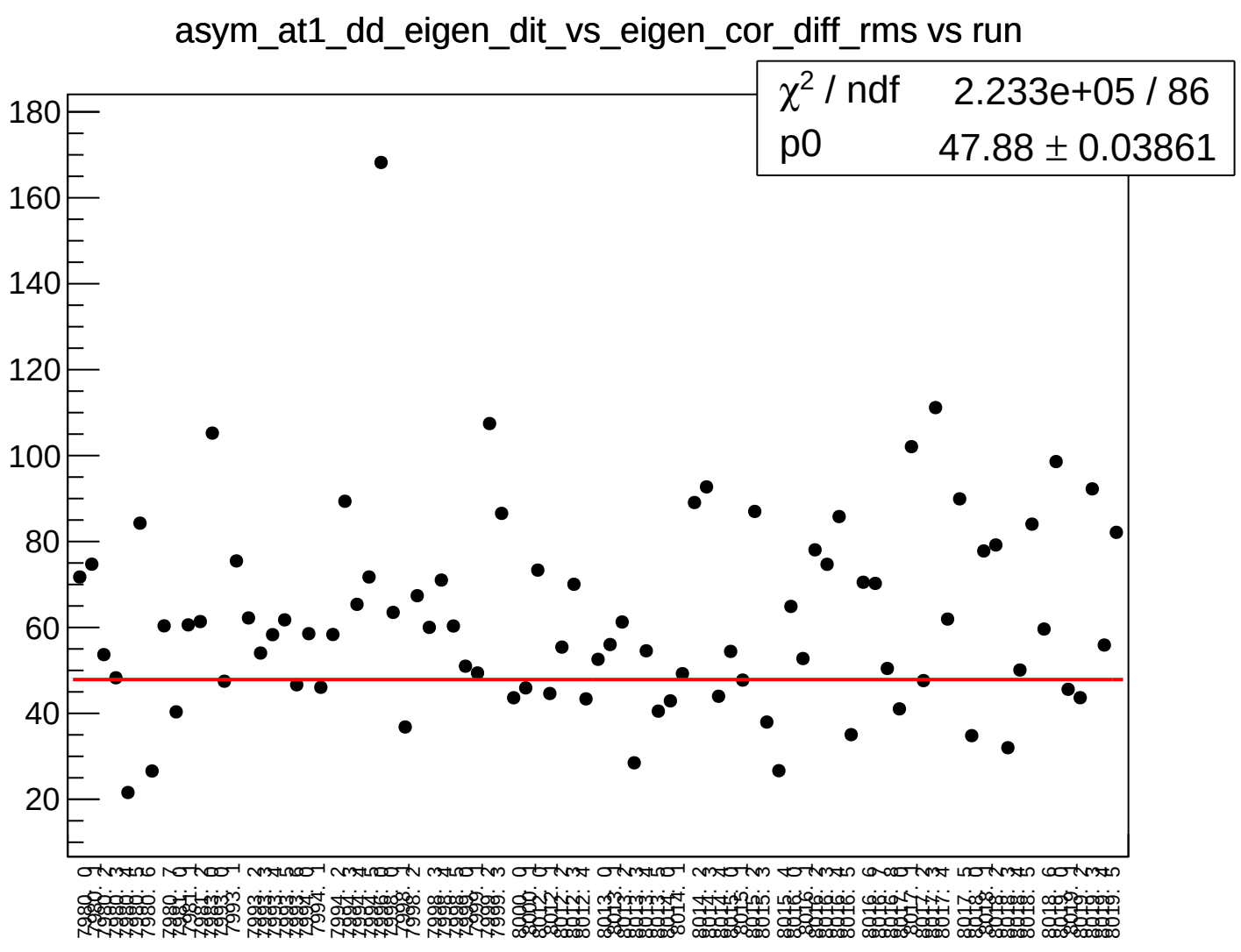

pull1D
Entries 87
Mean 0.01409
Std Dev 1.039

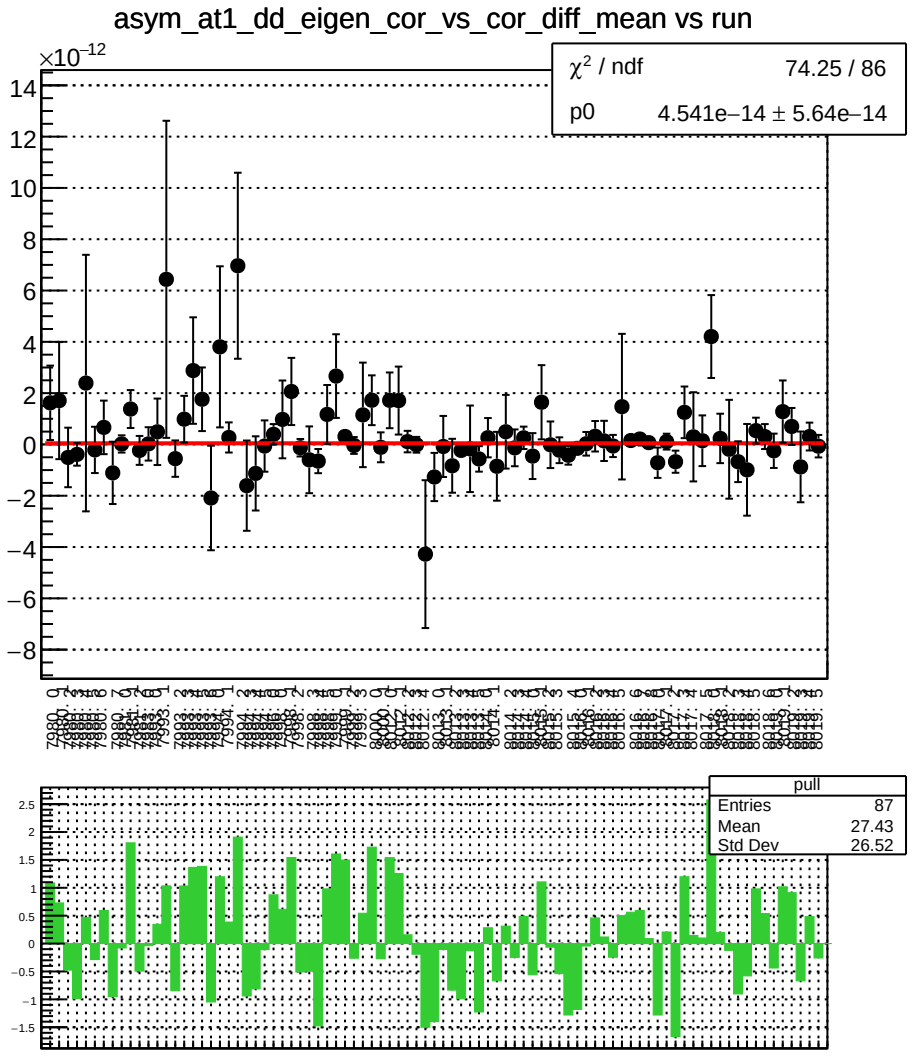

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.25e+05 / 86
p0 0.001622 ± 1.268e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

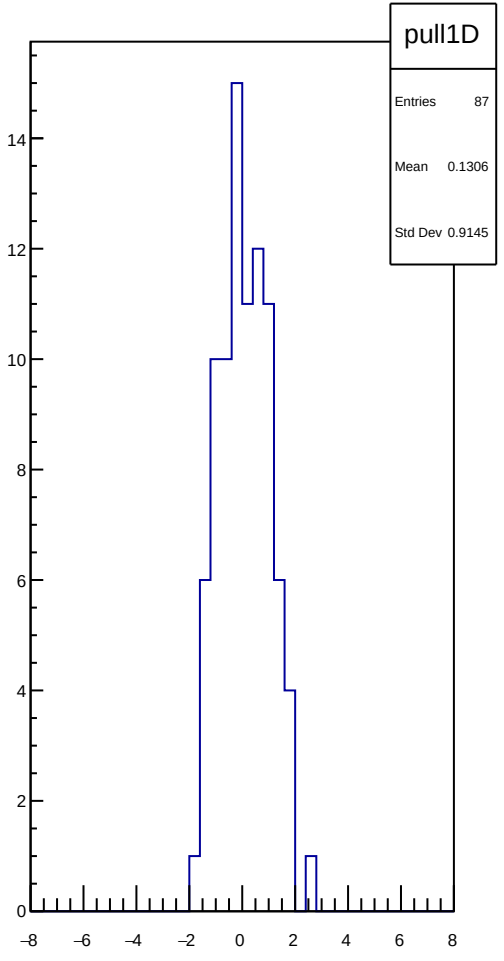

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.1 / 86
p0 −0.009859 ± 0.05461
pull
Entries 87
Mean 76.08
Std Dev 25.28
pull1D
Entries 87
Mean −0.05934
Std Dev 1.055

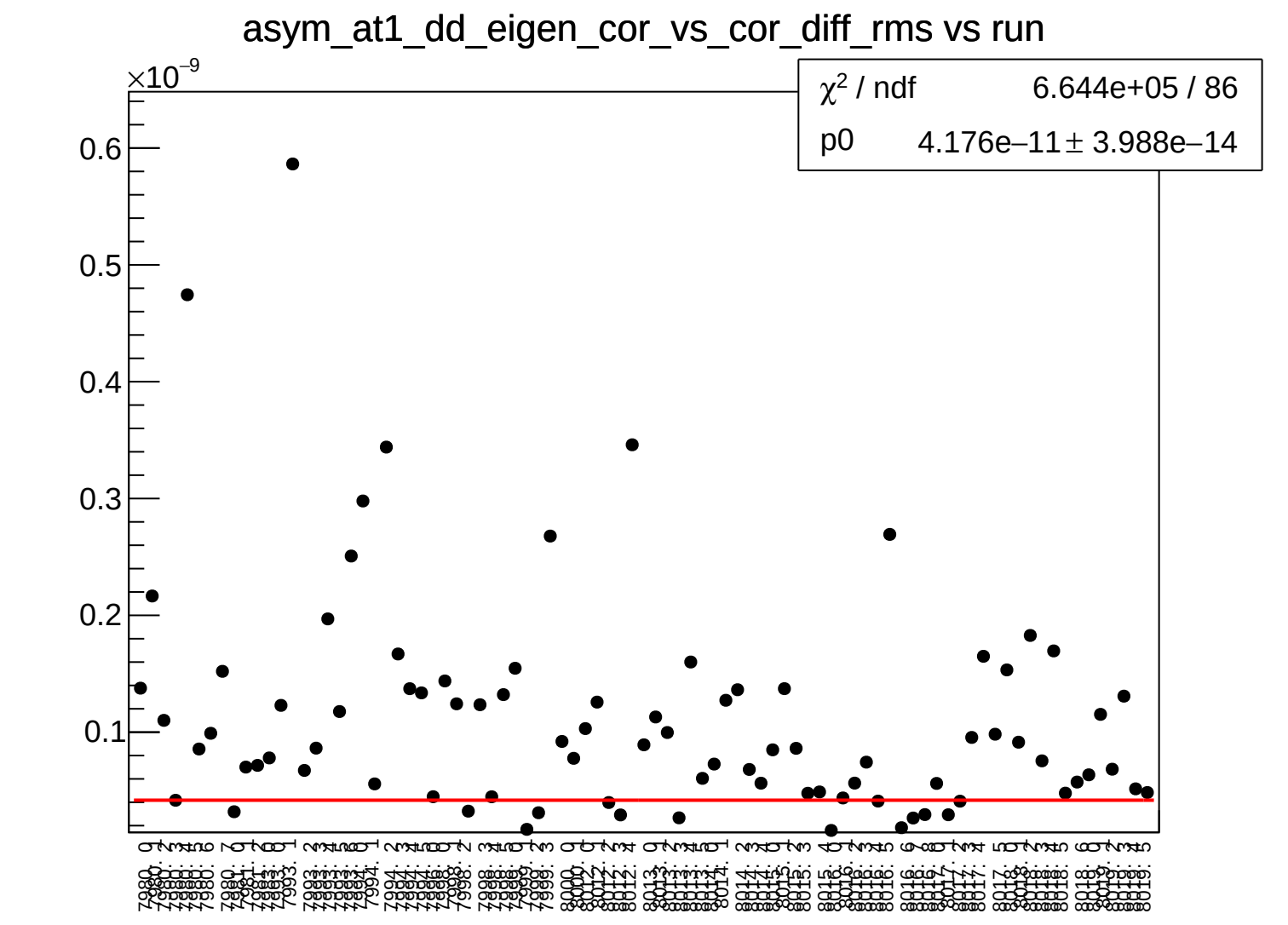

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.233e+05 / 86
p0 47.88 ± 0.03861
180
160
140
120
100
80
60
40
20

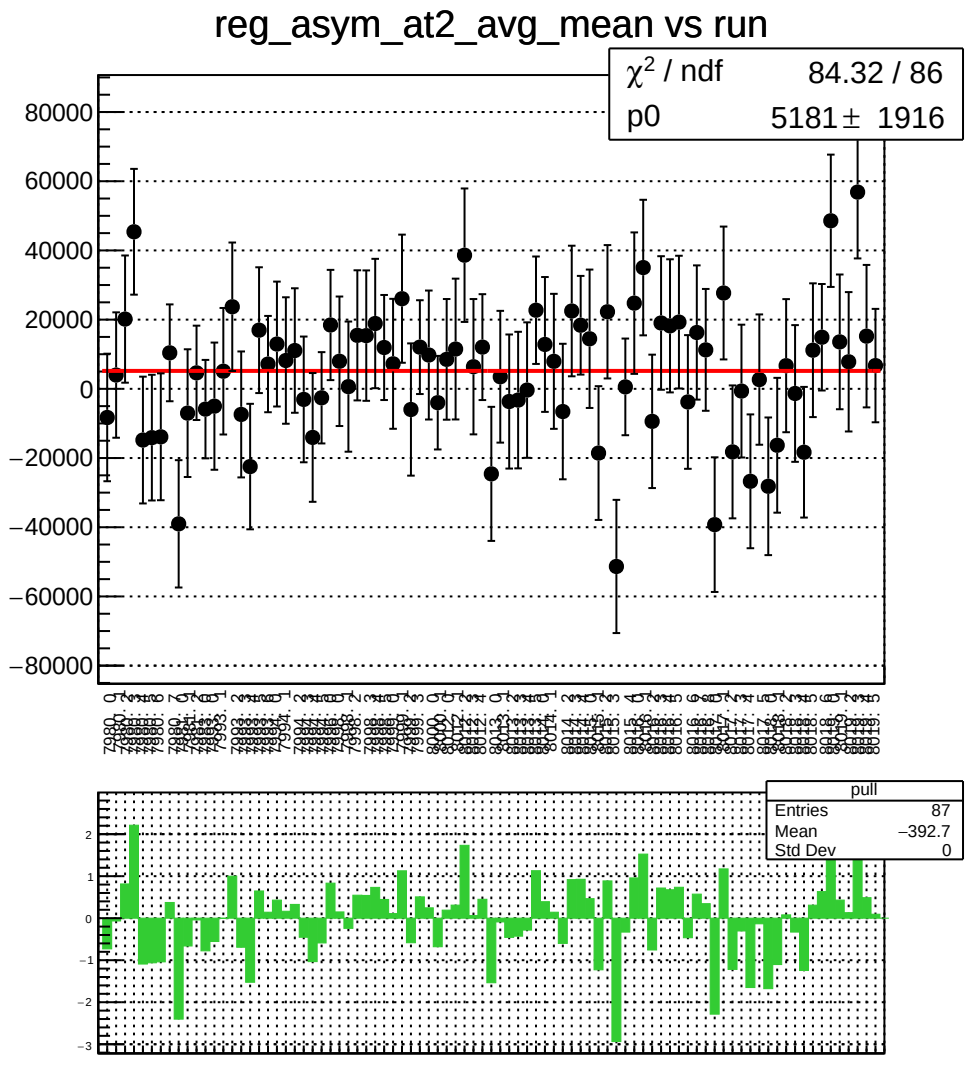

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.1 / 86
p0 −0.009859 ± 0.05461
pull
Entries 87
Mean 76.08
Std Dev 25.28
pull1D
Entries 87
Mean −0.05934
Std Dev 1.055

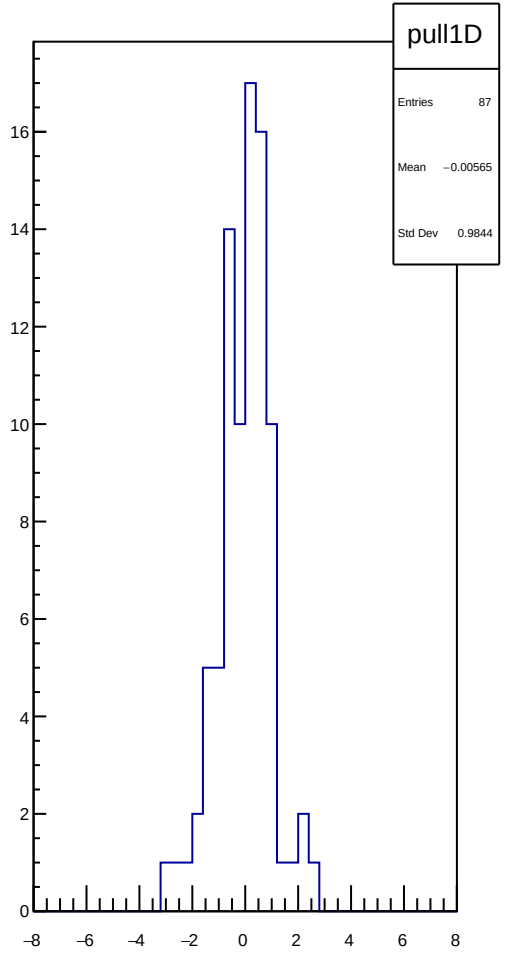

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.233e+05 / 86
p0 47.88 ± 0.03861
180
160
140
120
100
80
60
40
20

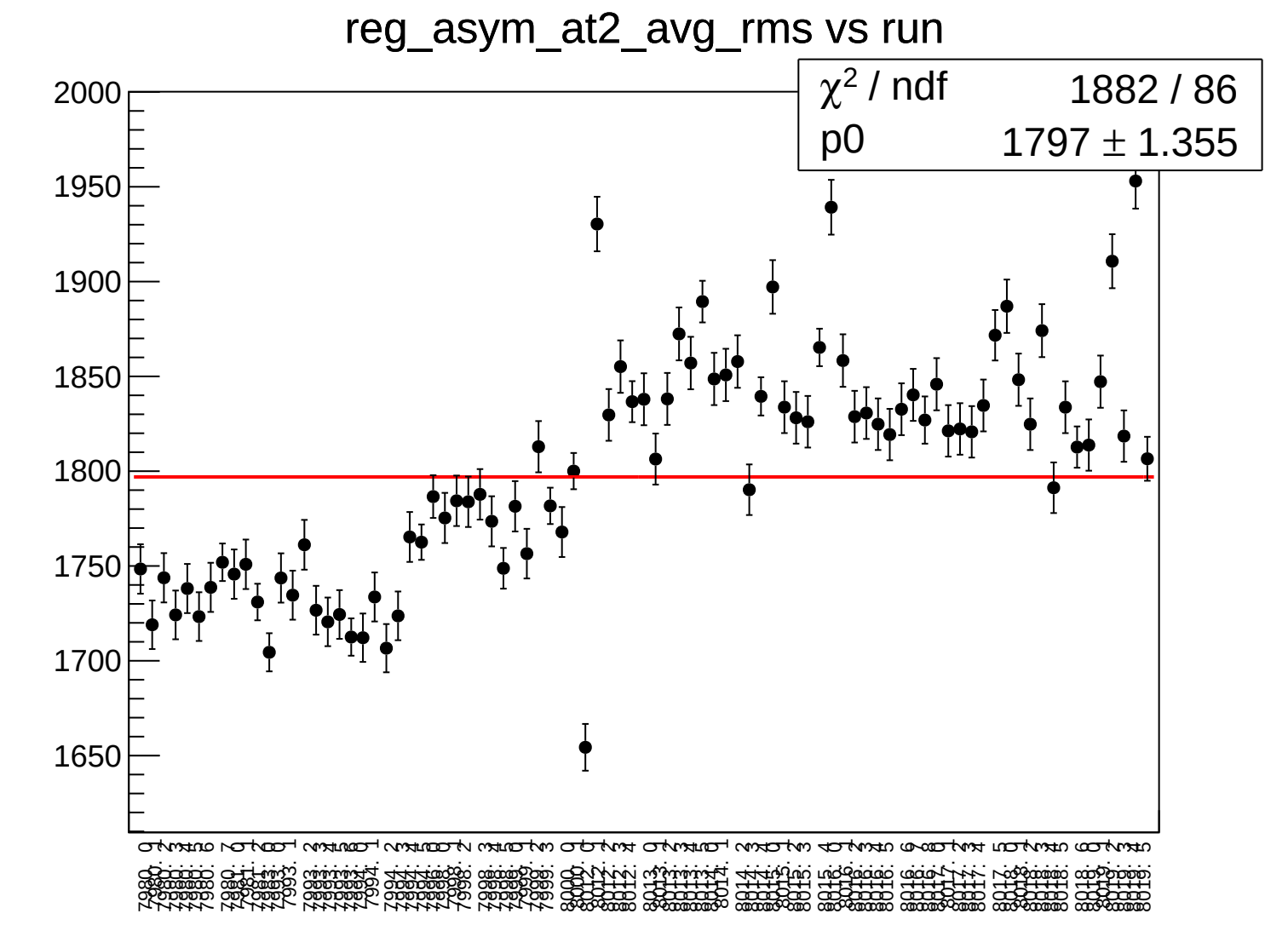

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.25 / 86
p0 4.541e−14 ± 5.64e−14
pull
Entries 87
Mean 27.43
Std Dev 26.52

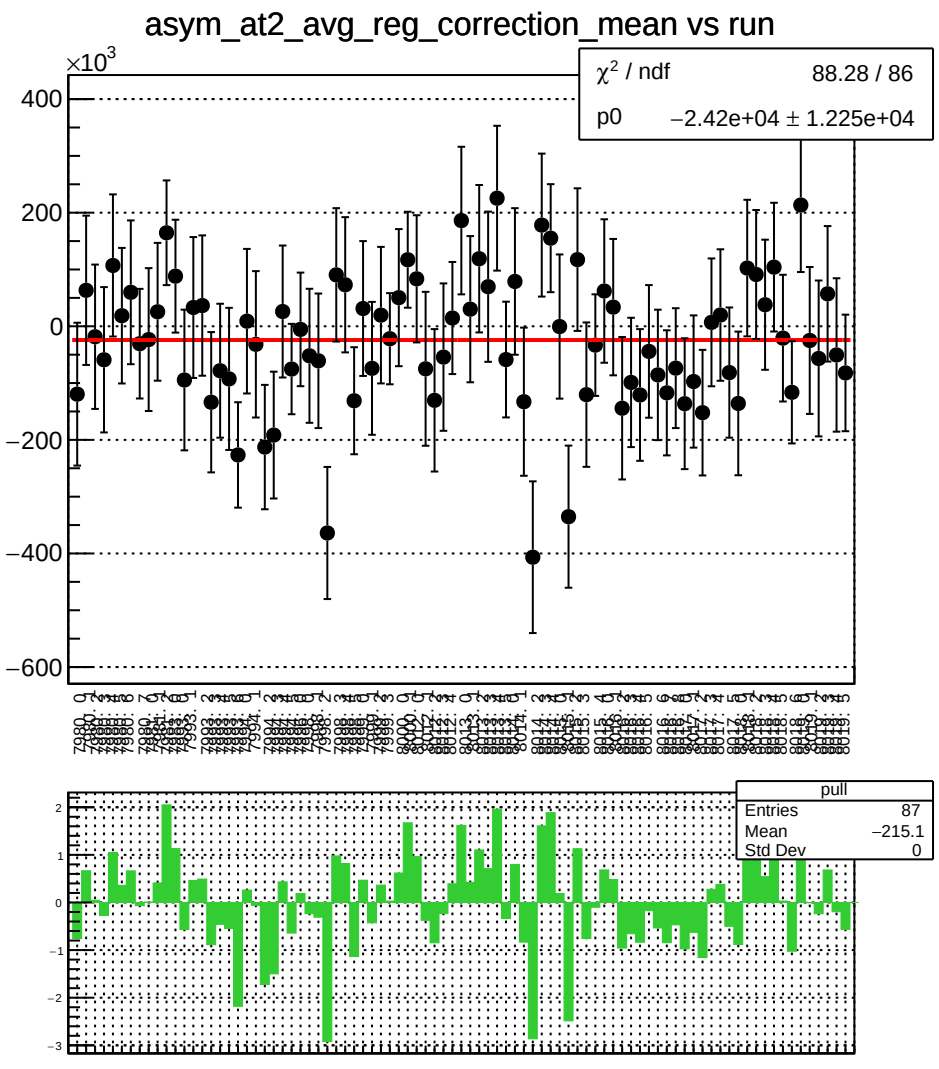

pull1D
Entries 87
Mean 0.1306
Std Dev 0.9145

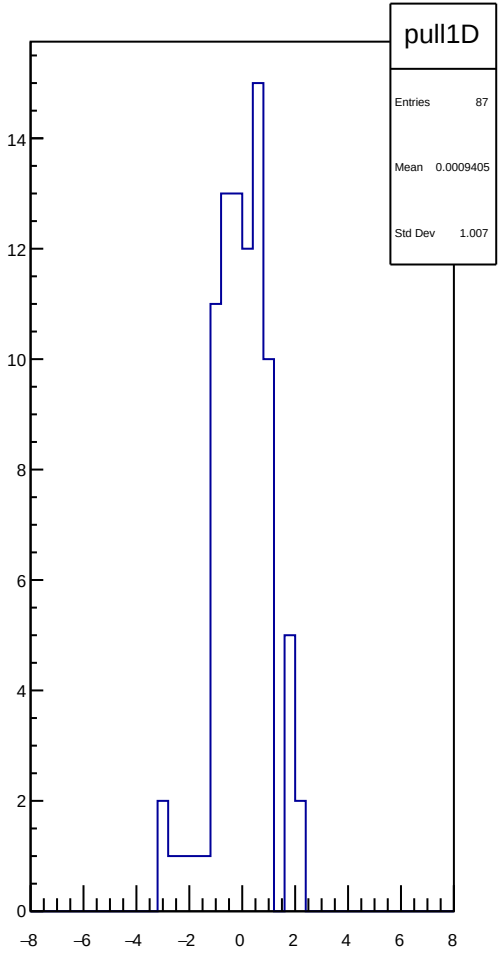

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.644e+05 / 86
p0 4.176e−11 ± 3.988e−14
0.6
0.5
0.4
0.3
0.2
0.1

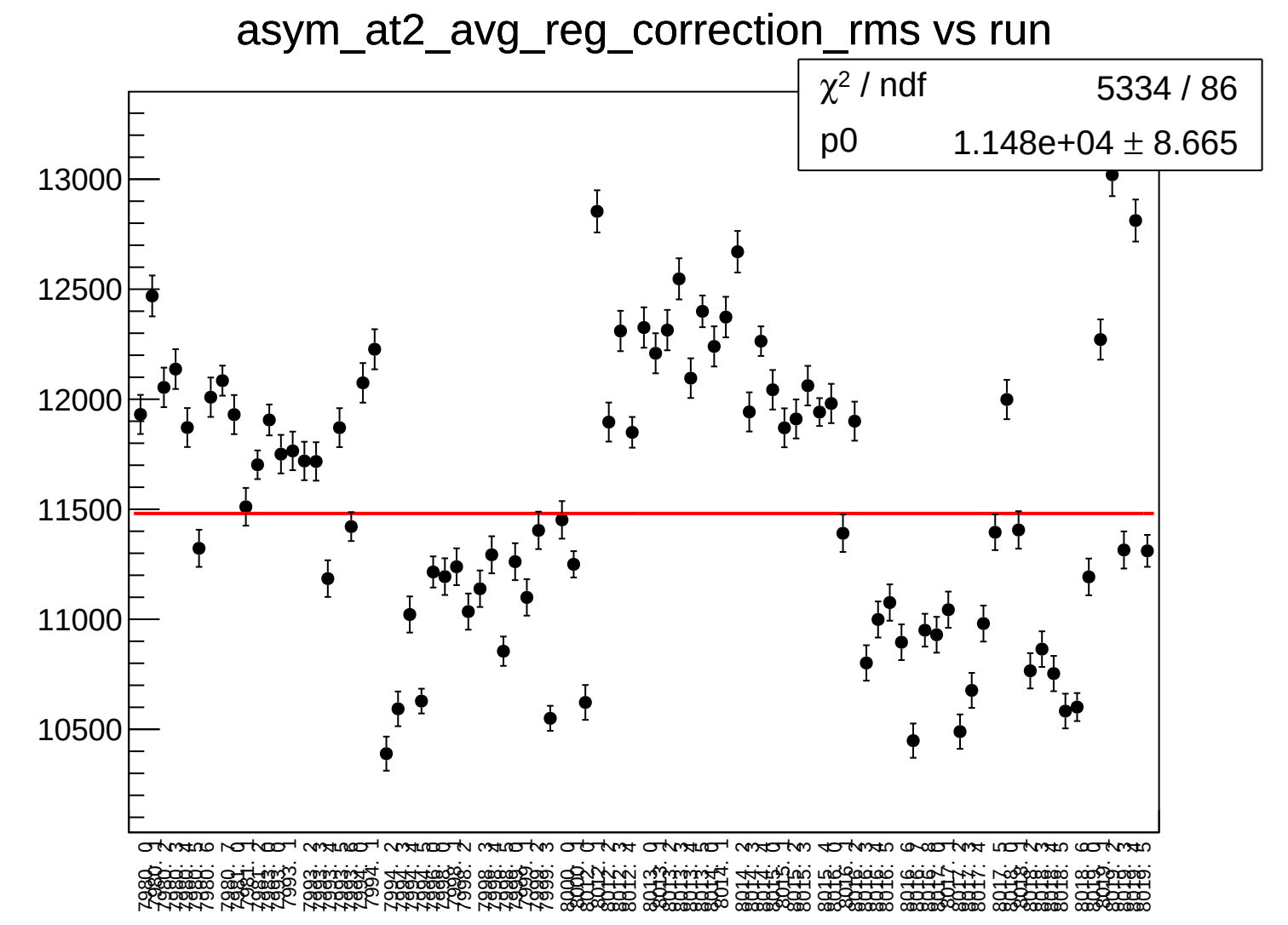

reg_asym_at2_avg_mean vs run
χ² / ndf 84.32 / 86
p0 5181 ± 1916
pull
Entries 87
Mean −392.7
Std Dev 0

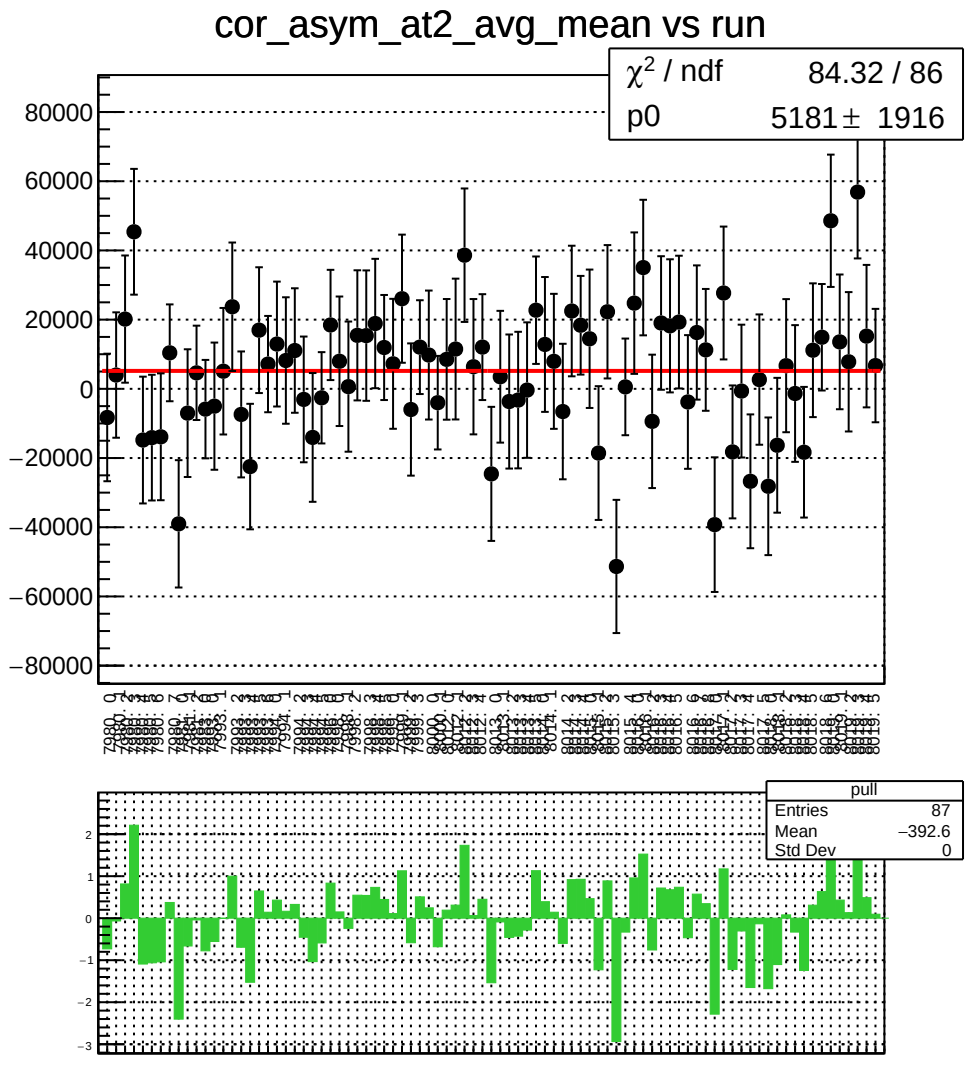

pull1D
Entries 87
Mean −0.00565
Std Dev 0.9844

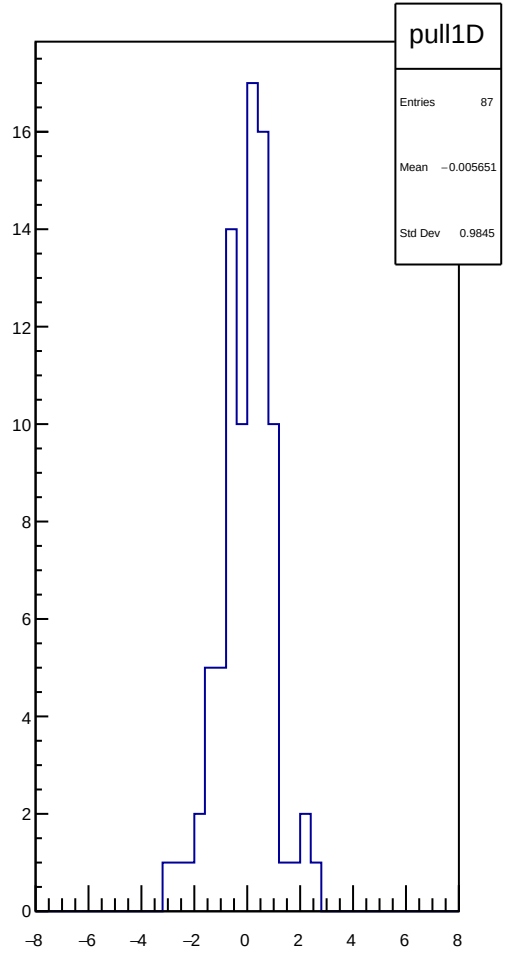

reg_asym_at2_avg_rms vs run
χ² / ndf 1882 / 86
p0 1797 ± 1.355
2000
1950
1900
1850
1800
1750
1700
1650

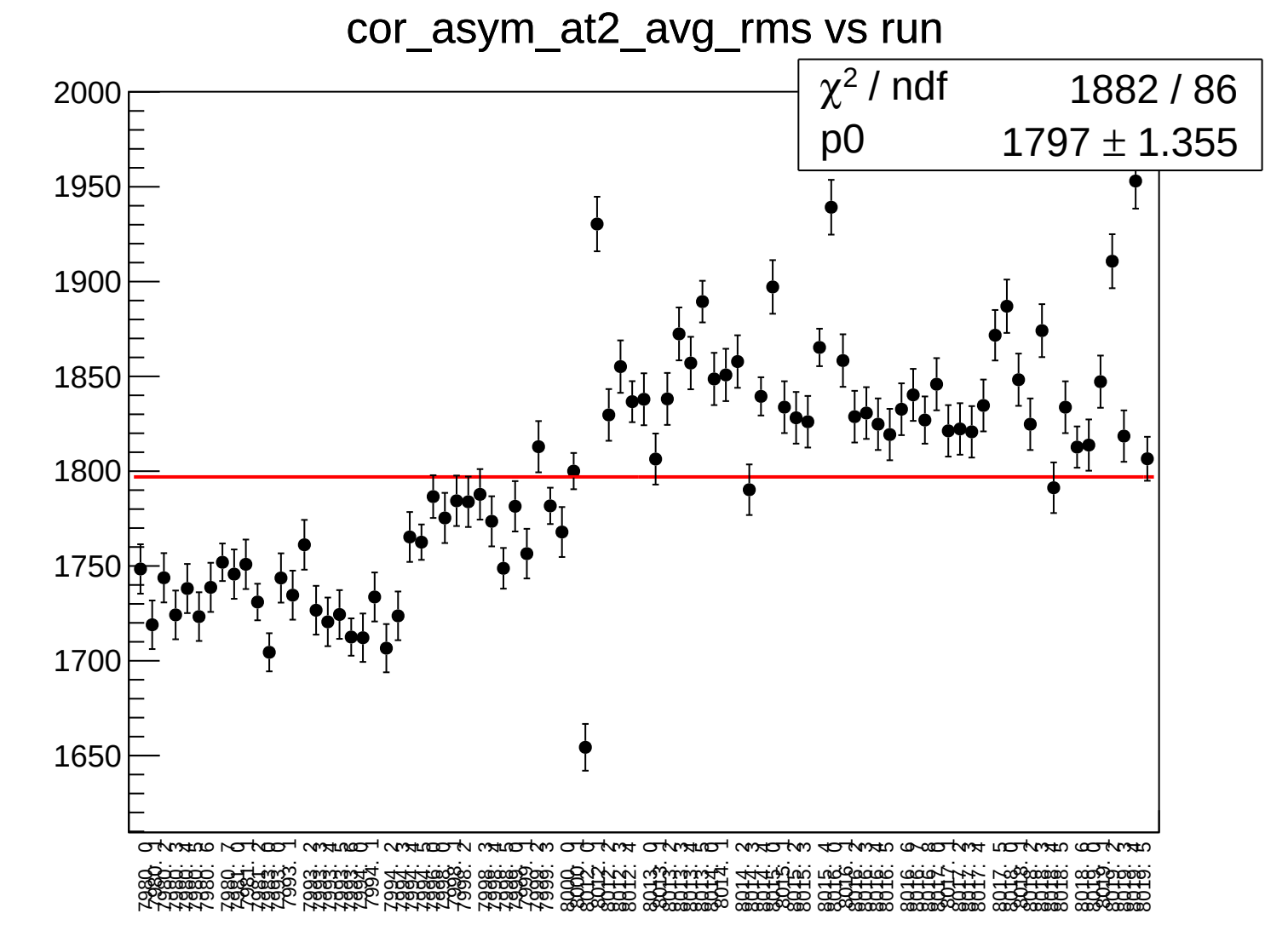

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.28 / 86
p0 −2.42e+04 ± 1.225e+04
pull
Entries 87
Mean −215.1
Std Dev 0

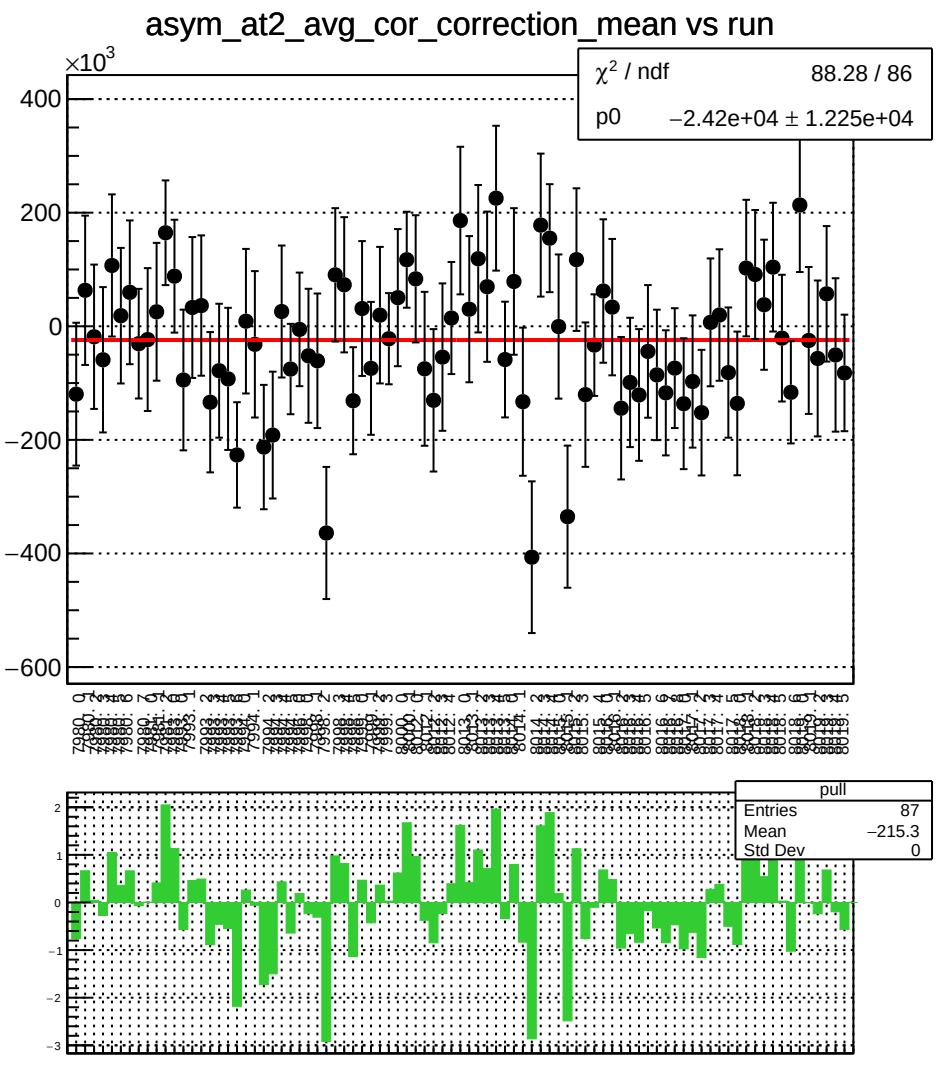

pull1D
Entries 87
Mean 0.0009405
Std Dev 1.007

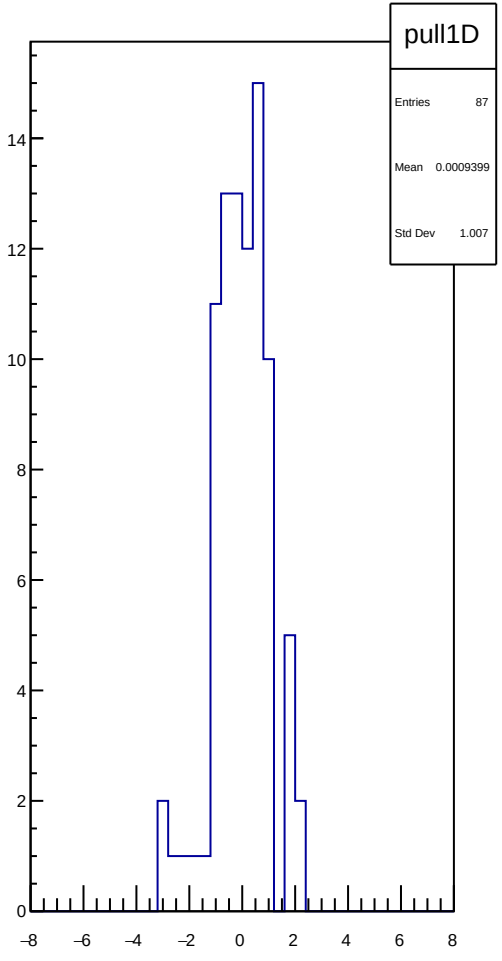

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 5334 / 86
p0 1.148e+04 ± 8.665
13000
12500
12000
11500
11000
10500

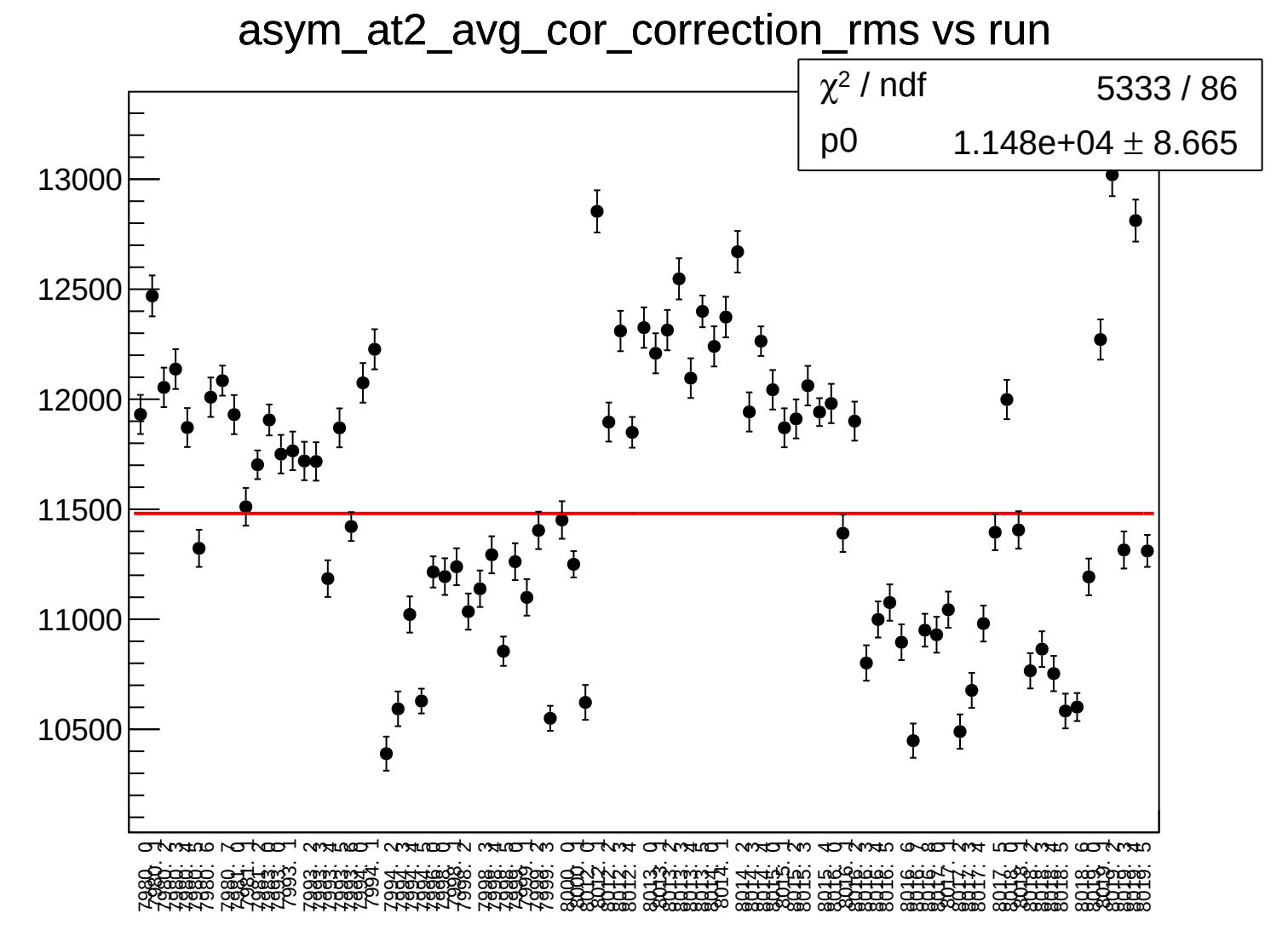

cor_asym_at2_avg_mean vs run
χ² / ndf 84.32 / 86
p0 5181 ± 1916
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −392.6
Std Dev 0
2
1
0
−1
−2
−3

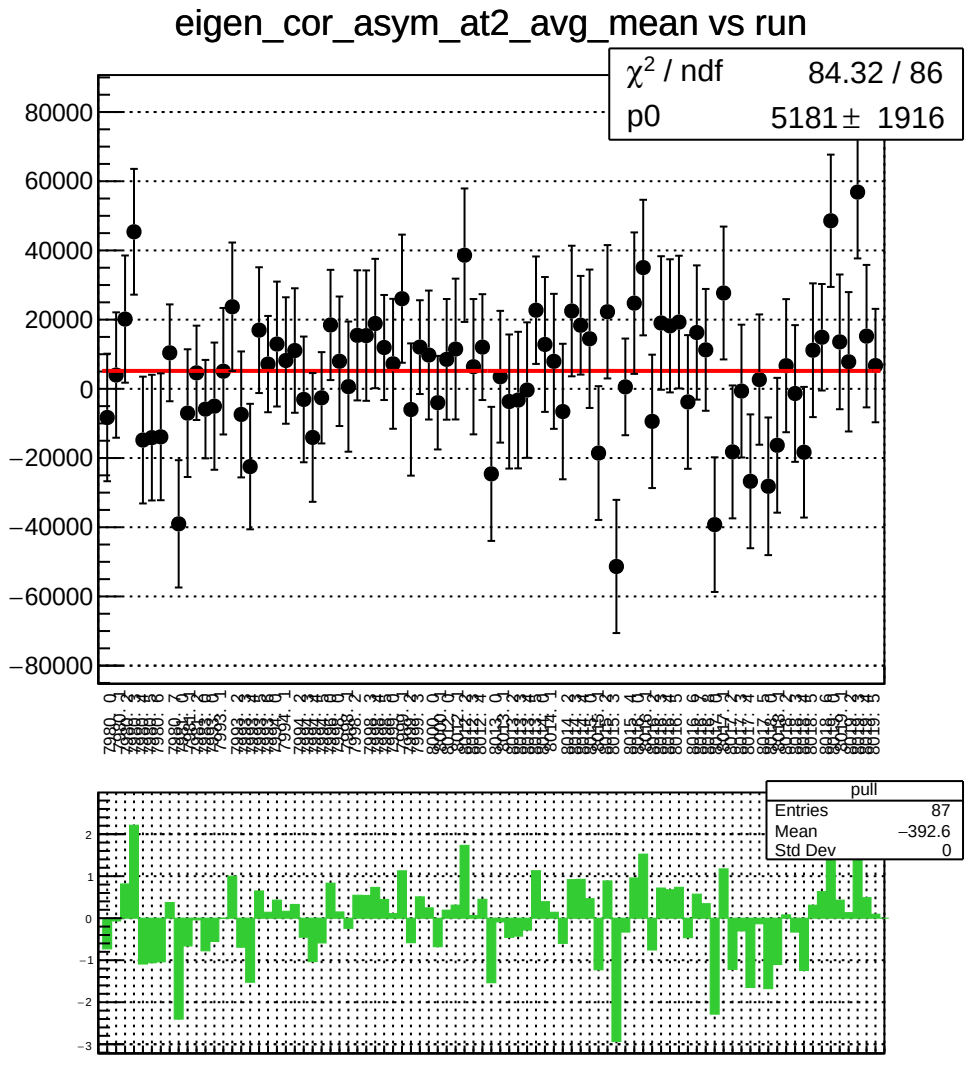

pull1D
Entries 87
Mean −0.005651
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

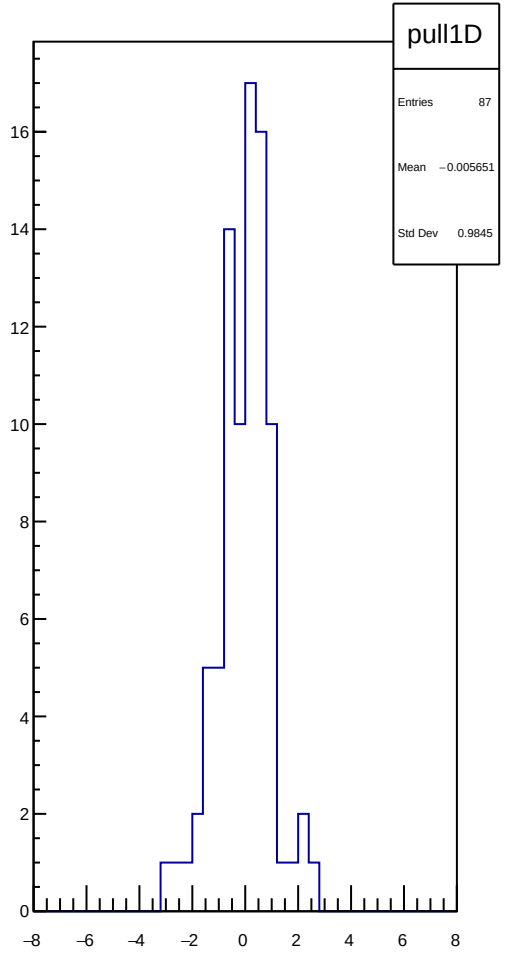

cor_asym_at2_avg_rms vs run
χ² / ndf 1882 / 86
p0 1797 ± 1.355
2000
1950
1900
1850
1800
1750
1700
1650

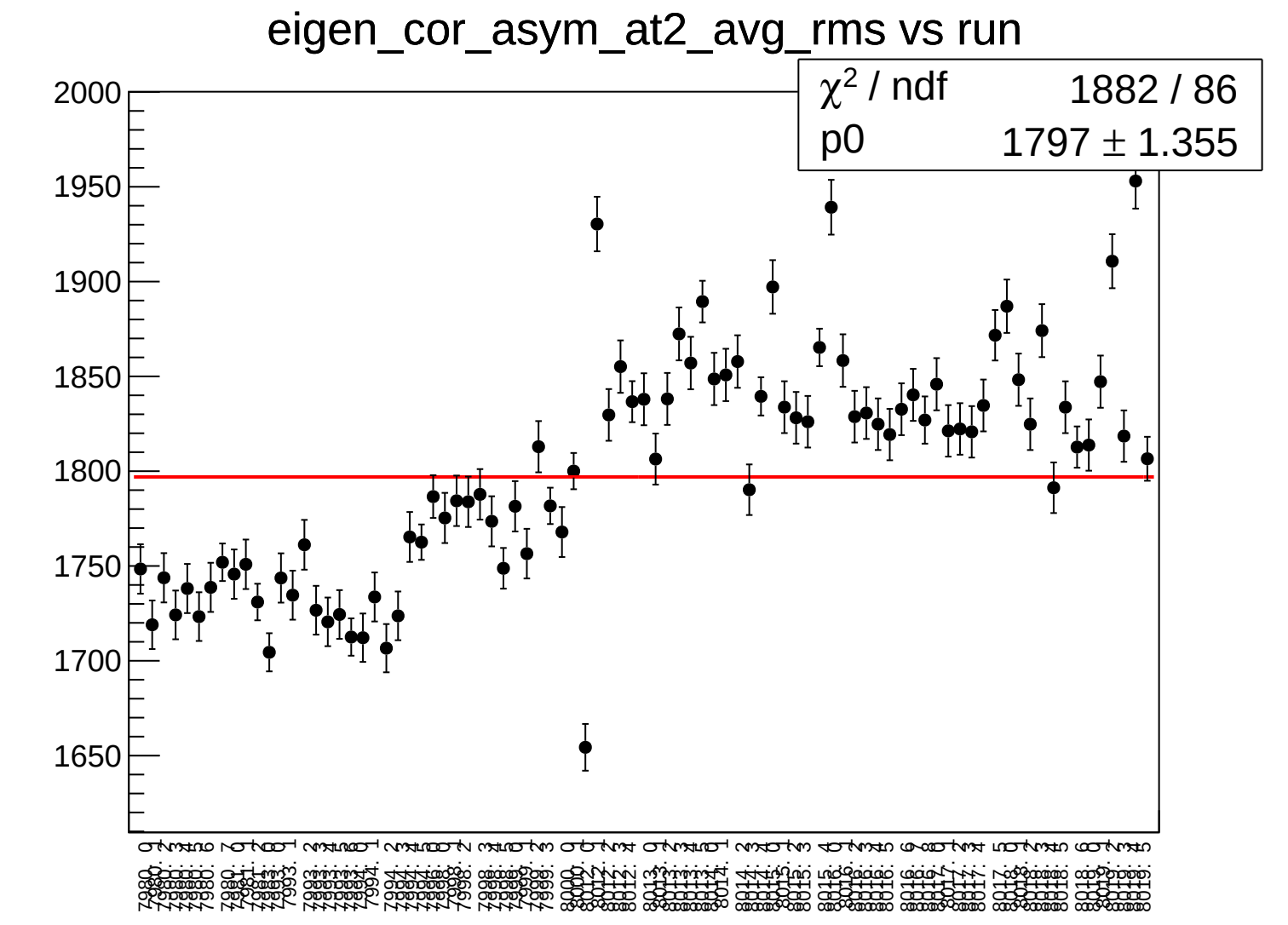

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 88.28 / 86
p0 −2.42e+04 ± 1.225e+04
pull
Entries 87
Mean −215.3
Std Dev 0

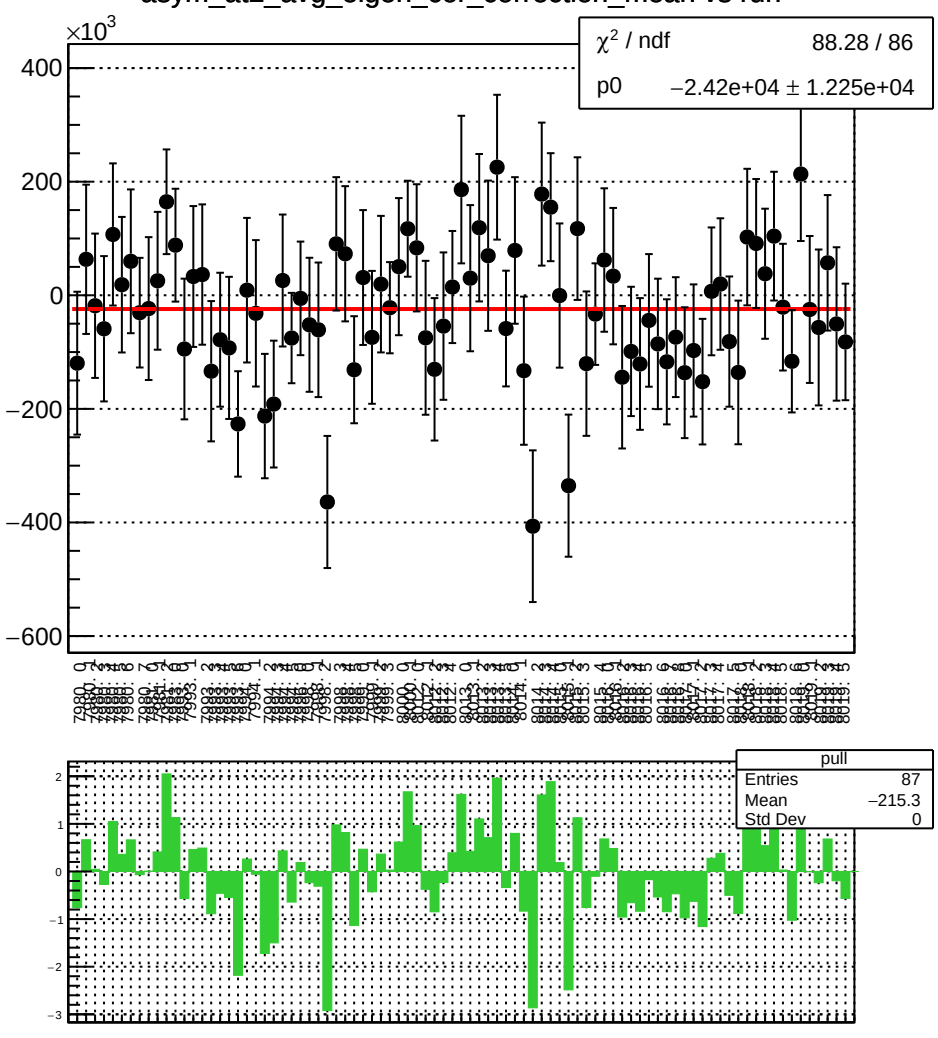

pull1D
Entries 87
Mean 0.0009399
Std Dev 1.007

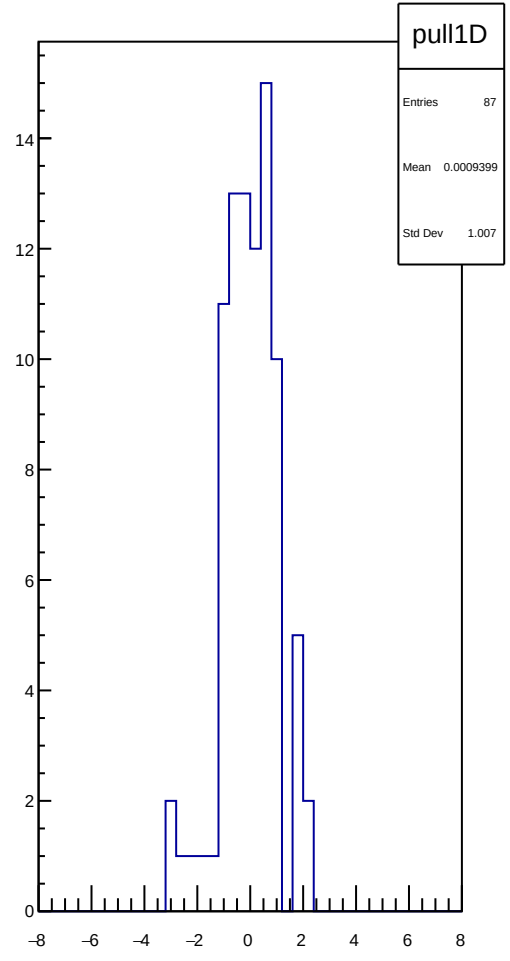

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 5333 / 86
p0 1.148e+04 ± 8.665
13000
12500
12000
11500
11000
10500

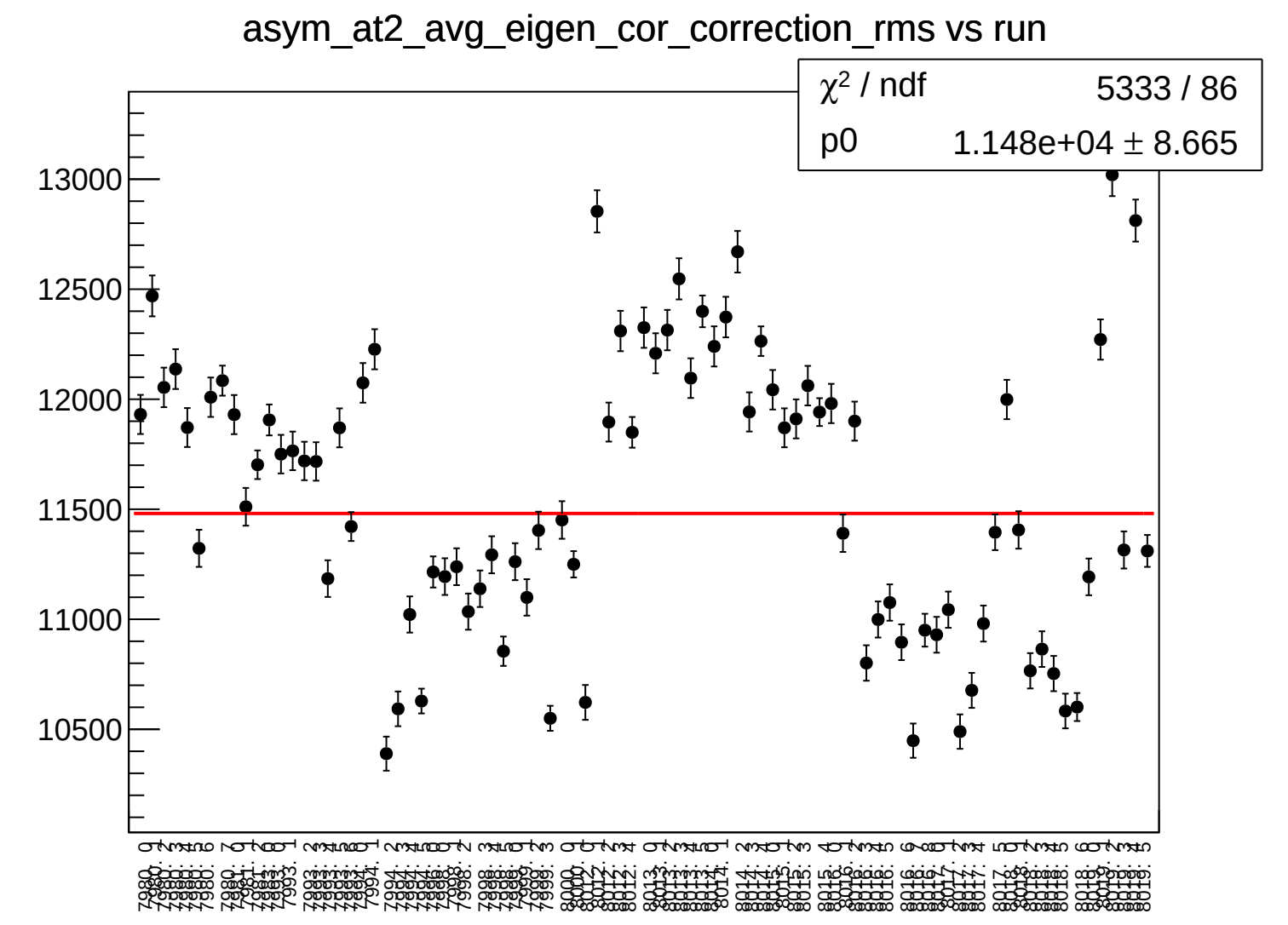

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 84.32 / 86
p0 5181 ± 1916
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −392.6
Std Dev 0
2
1
0
−1
−2
−3

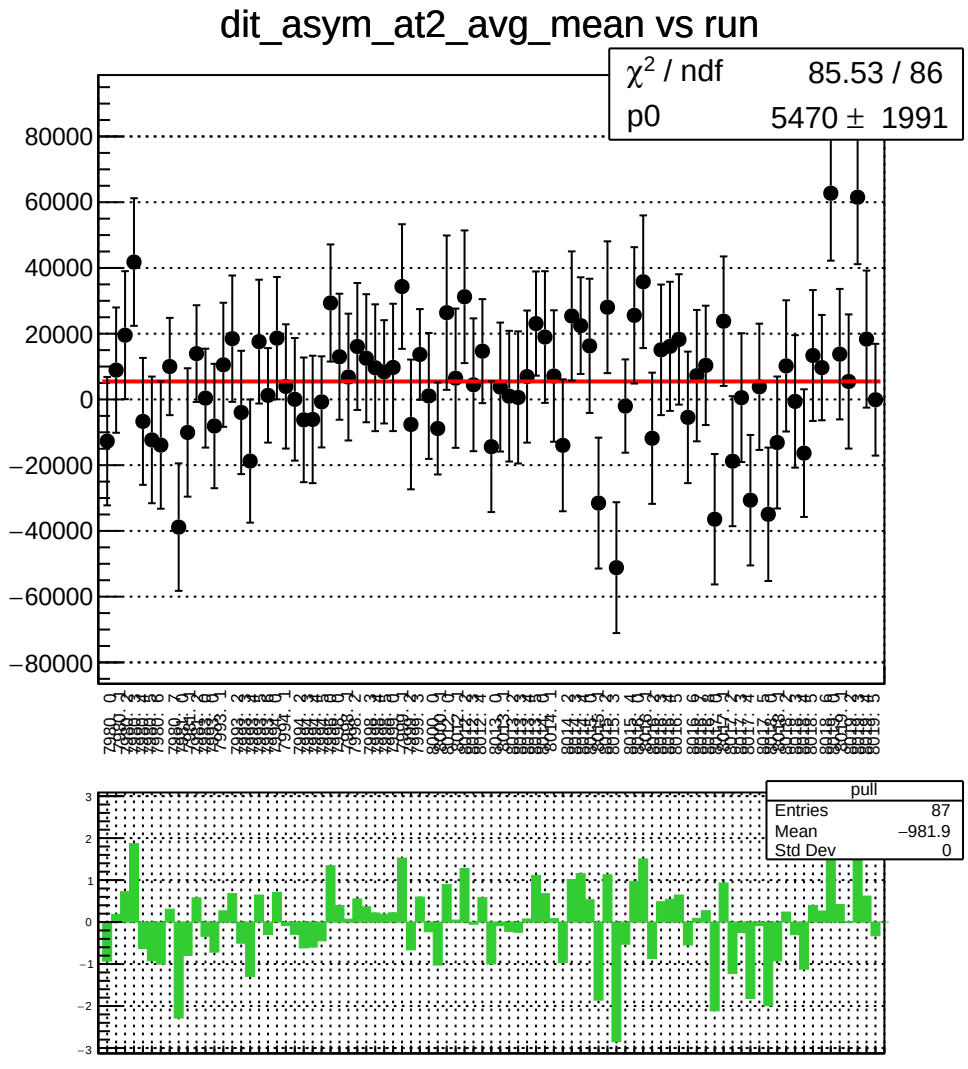

pull1D
Entries 87
Mean −0.005651
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

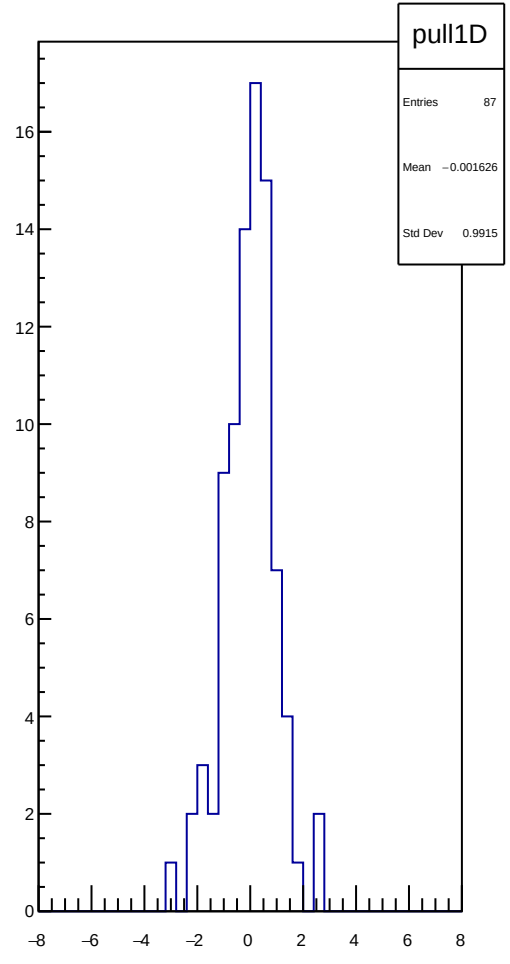

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 1882 / 86
p0 1797 ± 1.355
2000
1950
1900
1850
1800
1750
1700
1650

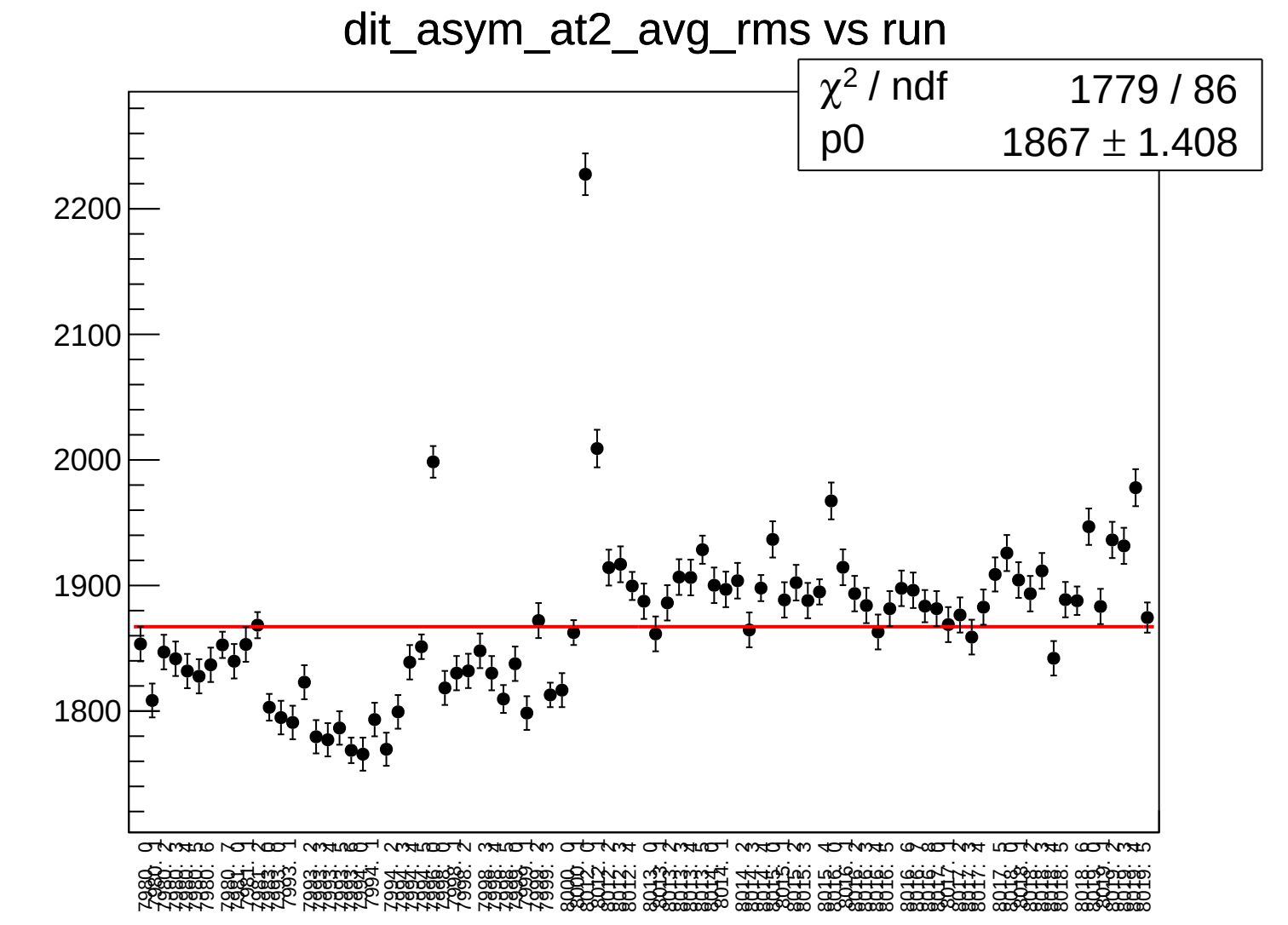

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.28 / 86
p0 −2.42e+04 ± 1.225e+04
pull
Entries 87
Mean −215.3
Std Dev 0

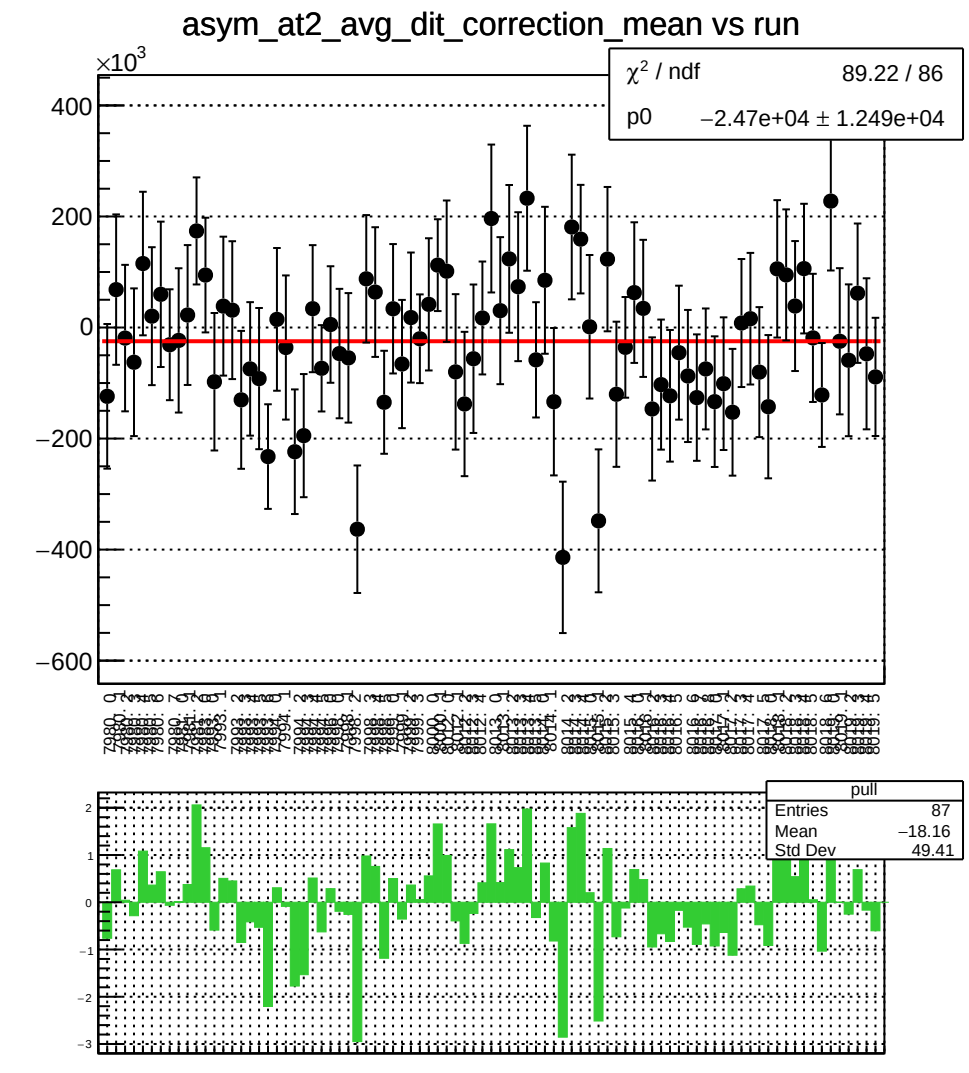

pull1D
Entries 87
Mean 0.0009399
Std Dev 1.007

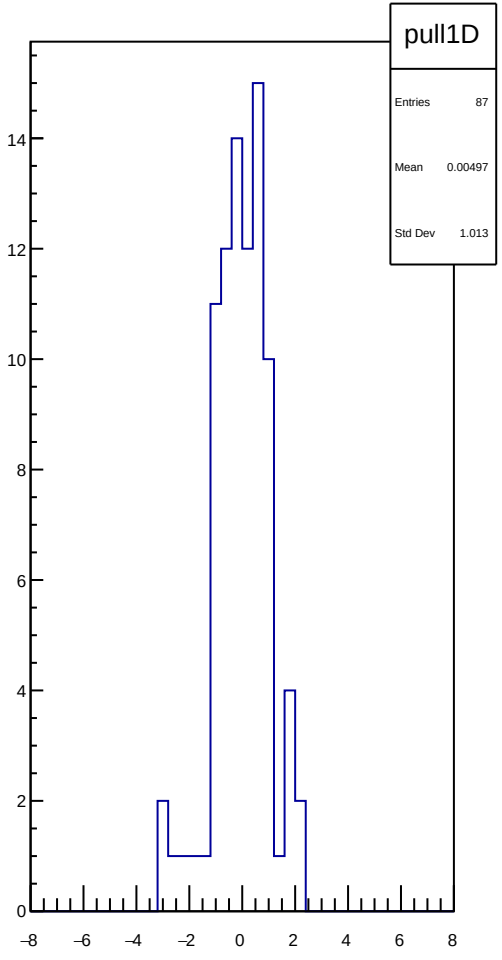

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5333 / 86
p0 1.148e+04 ± 8.665
13000
12500
12000
11500
11000
10500

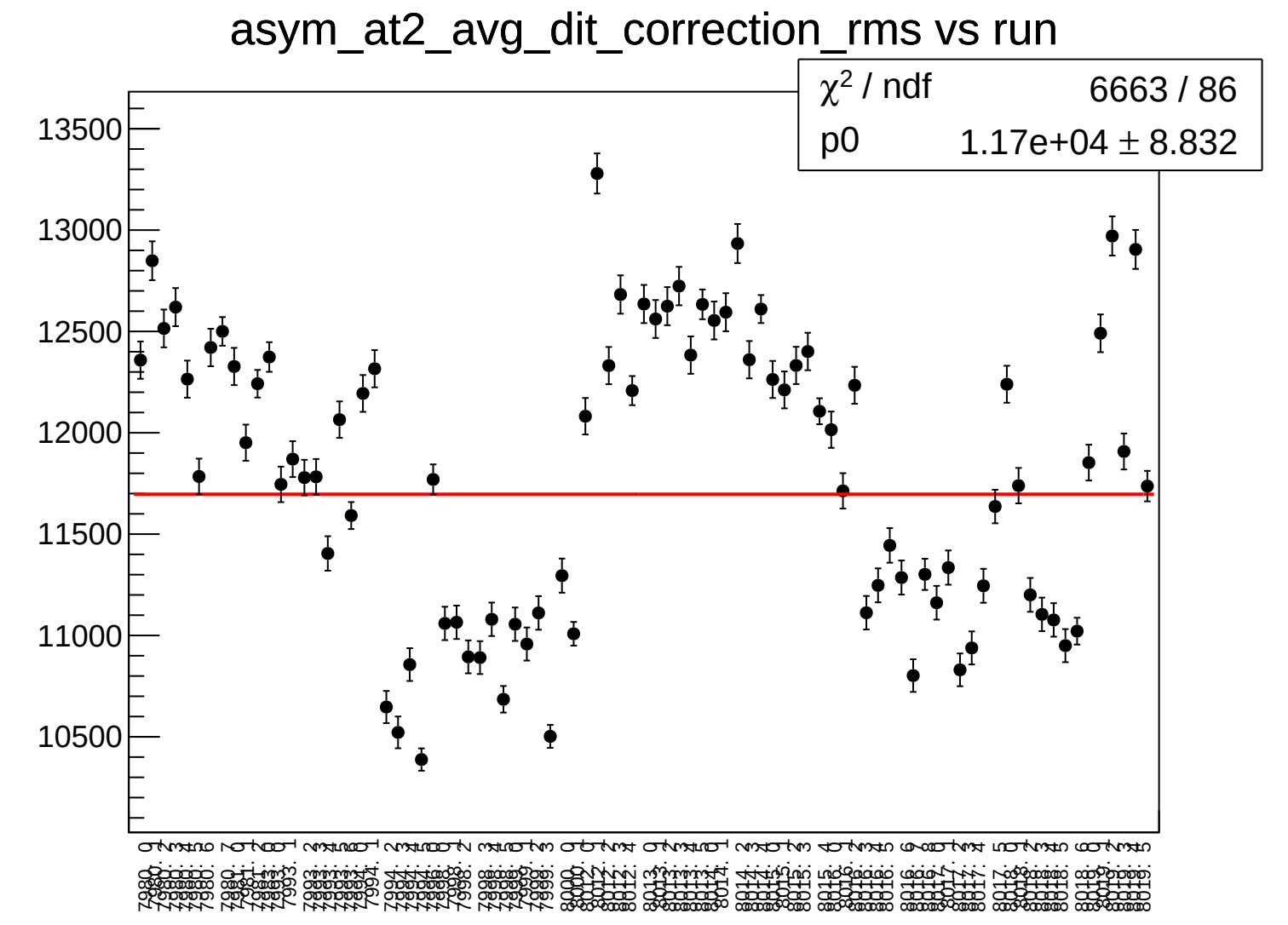

dit_asym_at2_avg_mean vs run
χ² / ndf 85.53 / 86
p0 5470 ± 1991
pull
Entries 87
Mean −981.9
Std Dev 0

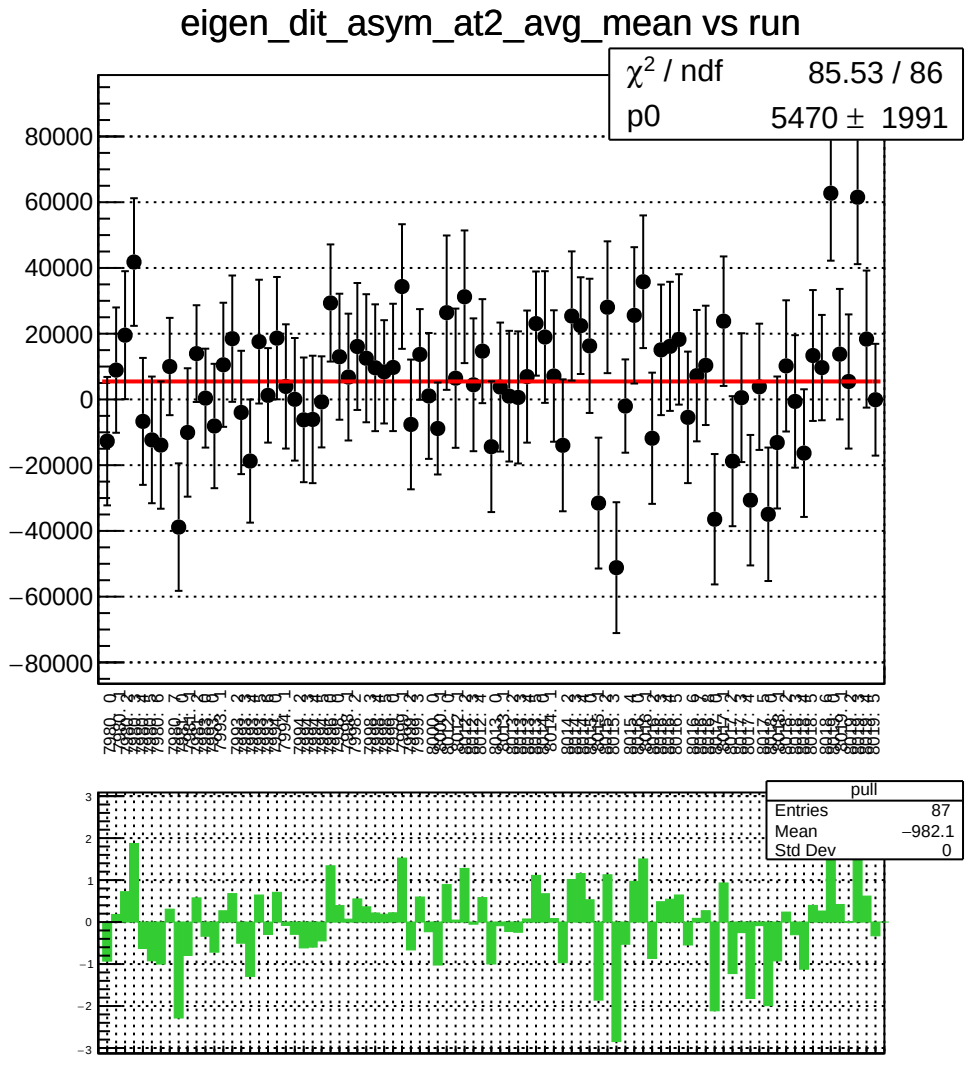

pull1D
Entries 87
Mean −0.001626
Std Dev 0.9915

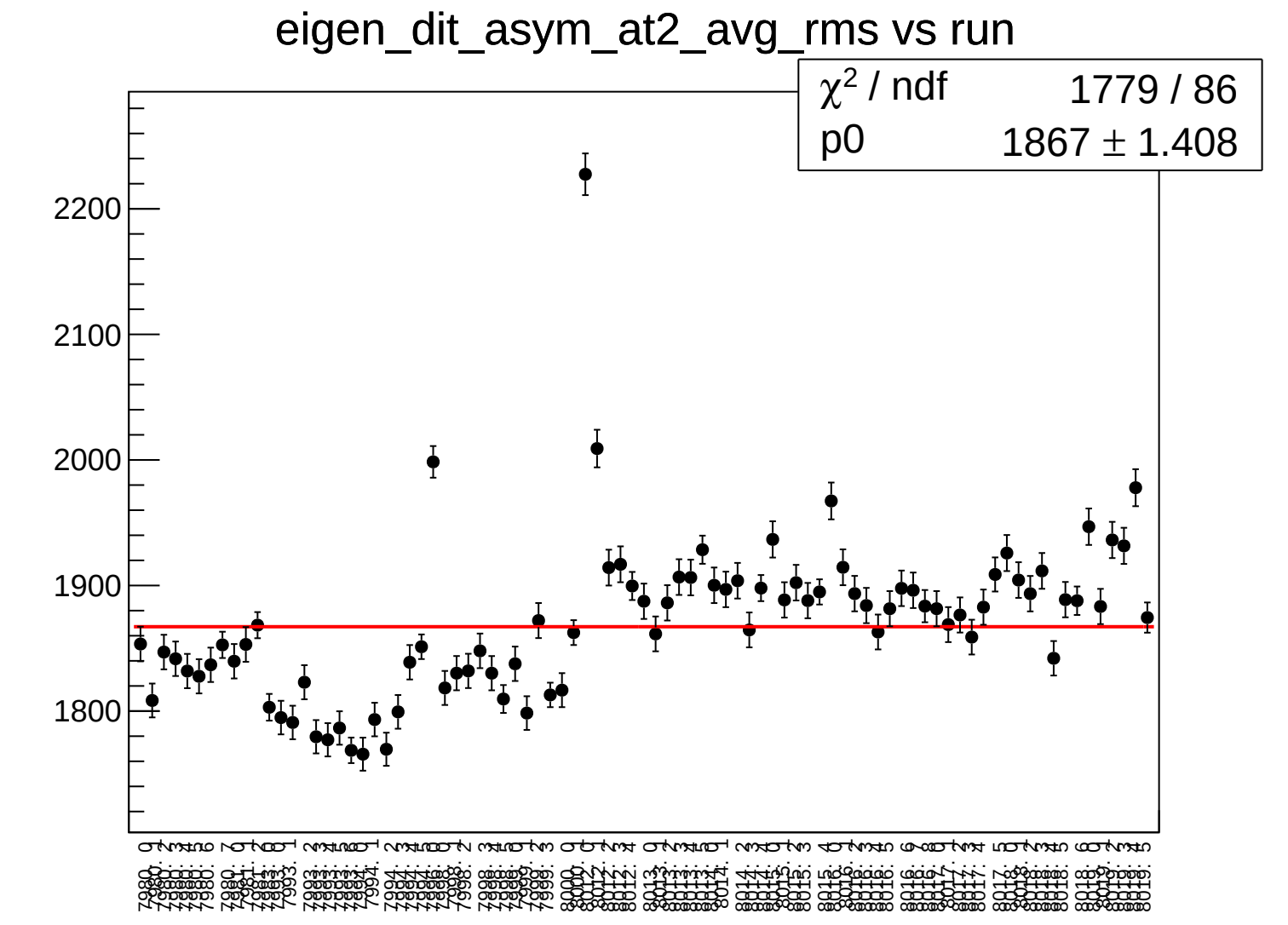

dit_asym_at2_avg_rms vs run
χ^2 / ndf 1779 / 86
p0 1867 ± 1.408
2200
2100
2000
1900
1800

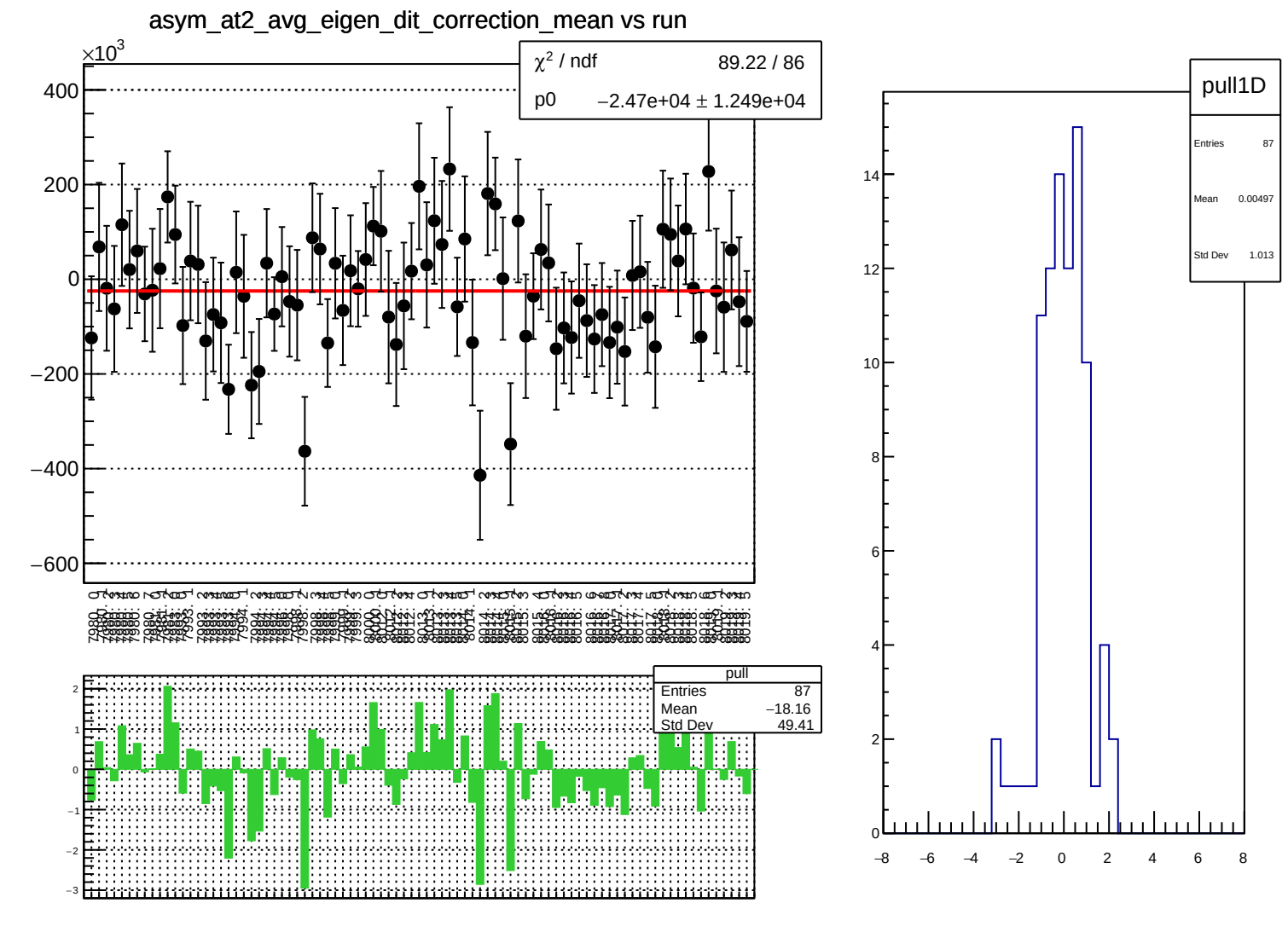

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.22 / 86
p0 −2.47e+04 ± 1.249e+04
pull
Entries 87
Mean −18.16
Std Dev 49.41

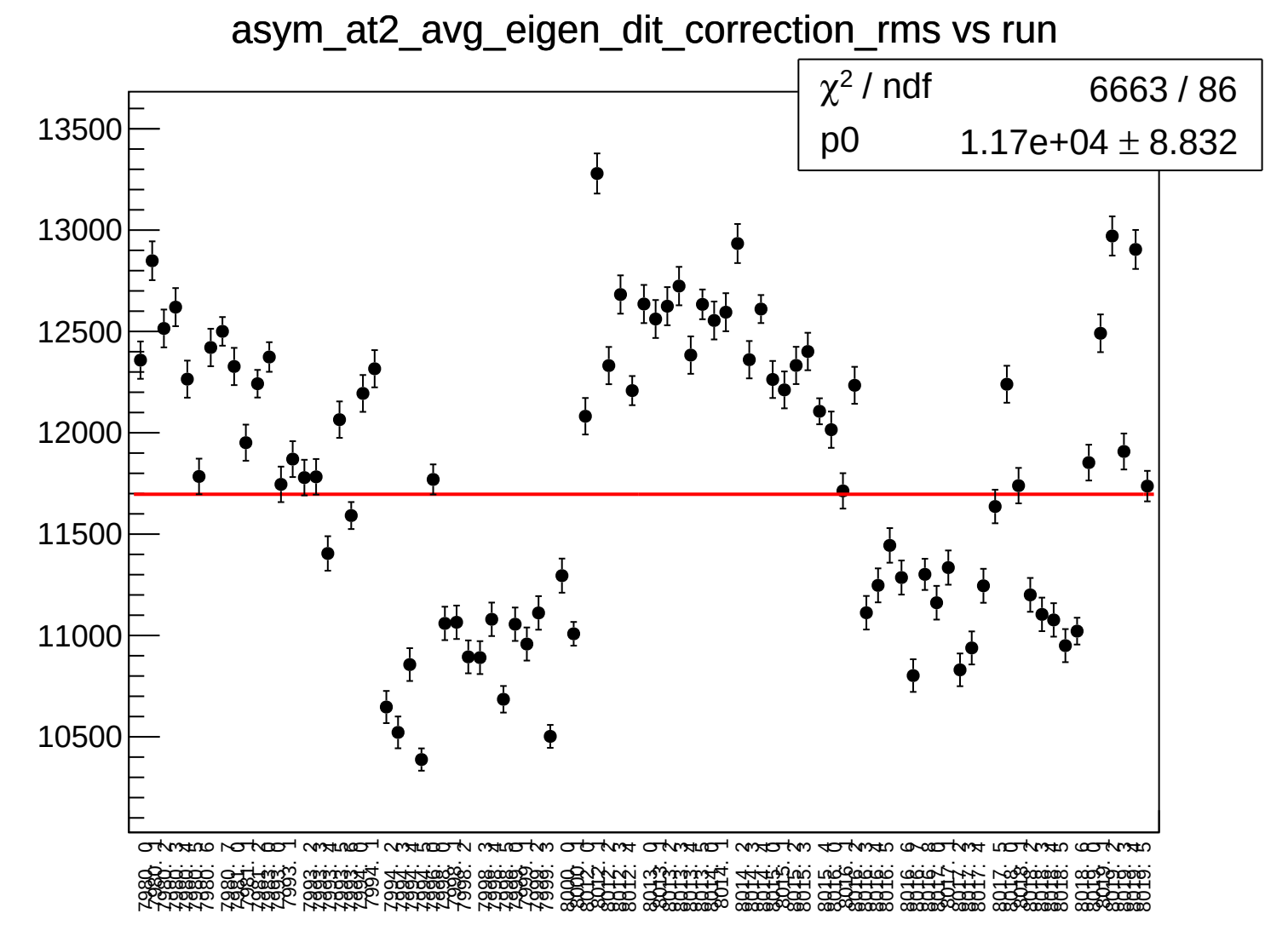

pull1D
Entries 87
Mean 0.00497
Std Dev 1.013

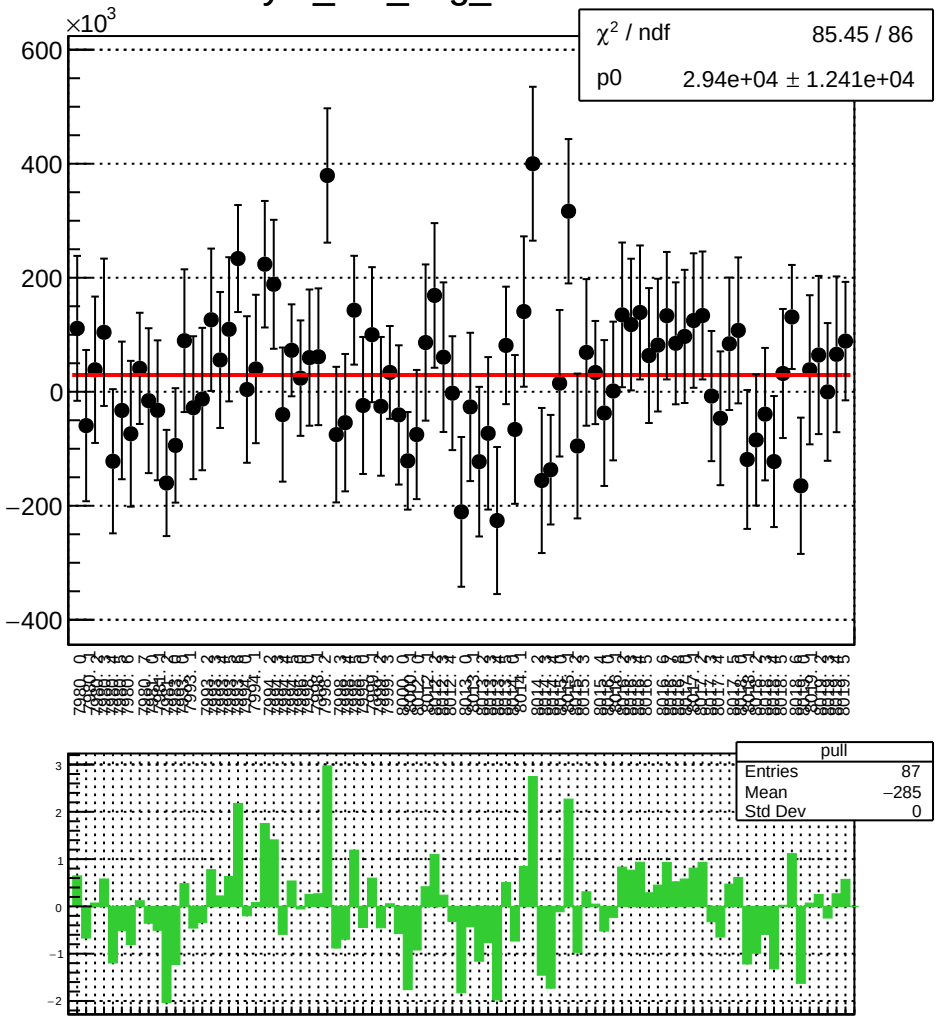

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 6663 / 86
p0 1.17e+04 ± 8.832
13500
13000
12500
12000
11500
11000
10500

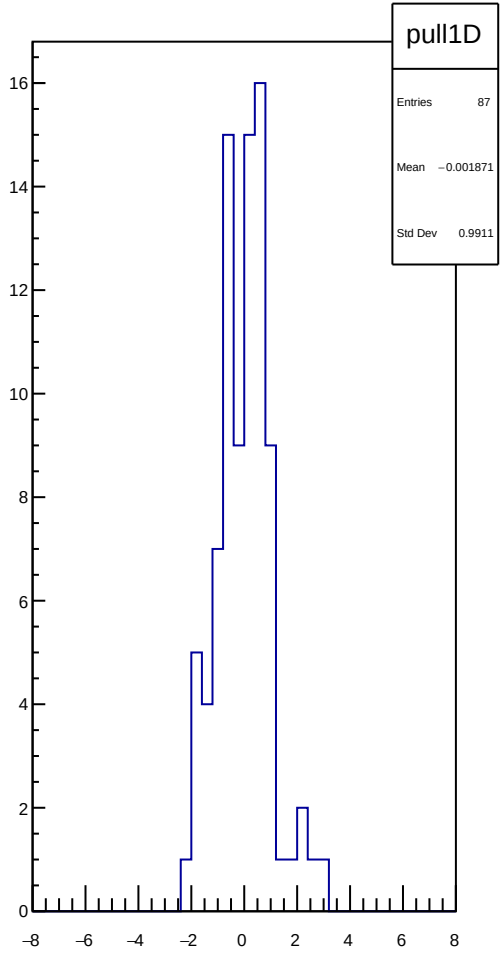

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 85.53 / 86
p0 5470 ± 1991
pull
Entries 87
Mean −982.1
Std Dev 0
pull1D
Entries 87
Mean −0.001626
Std Dev 0.9915

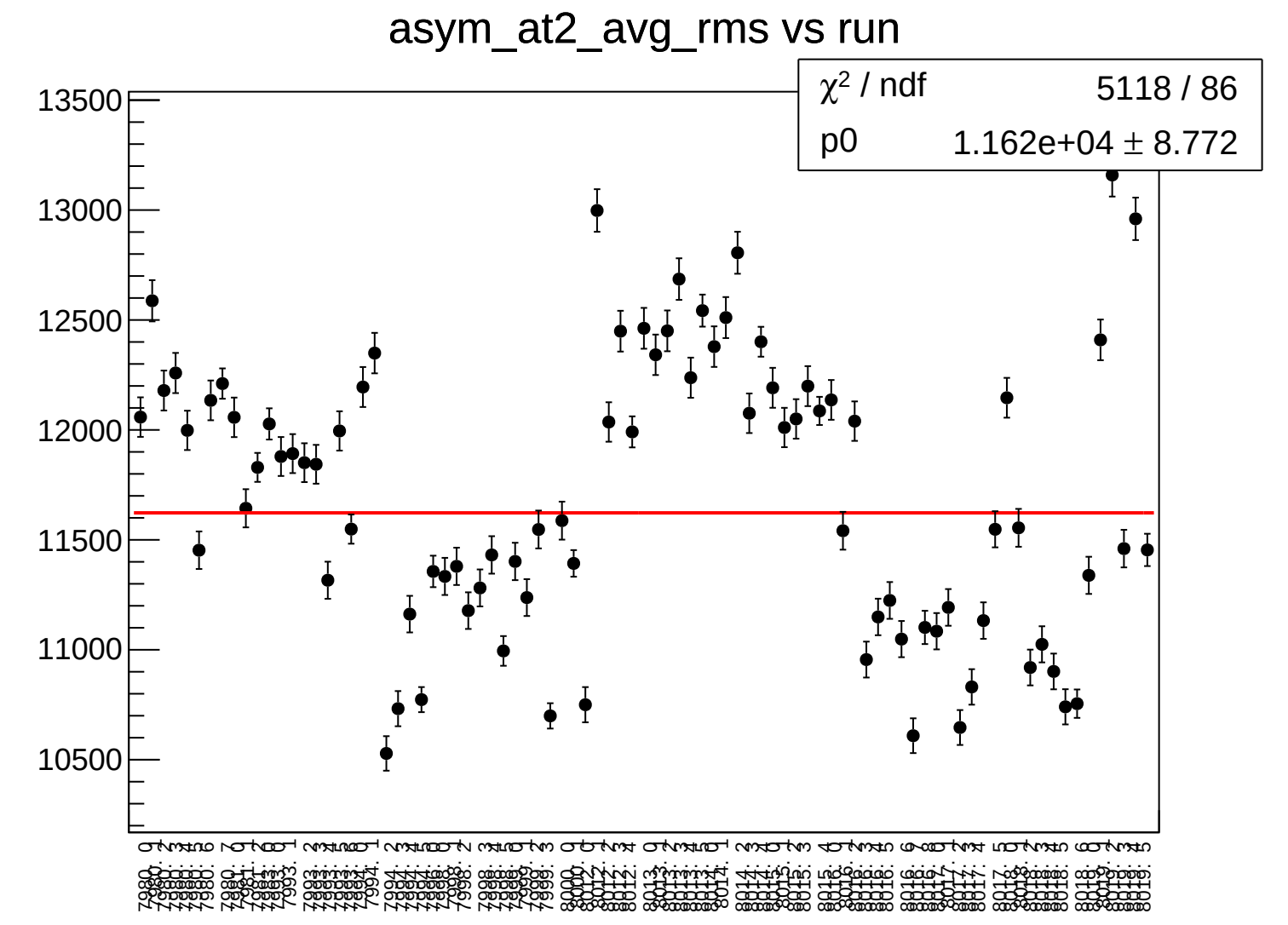

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 1779 / 86
p0 1867 ± 1.408
2200
2100
2000
1900
1800

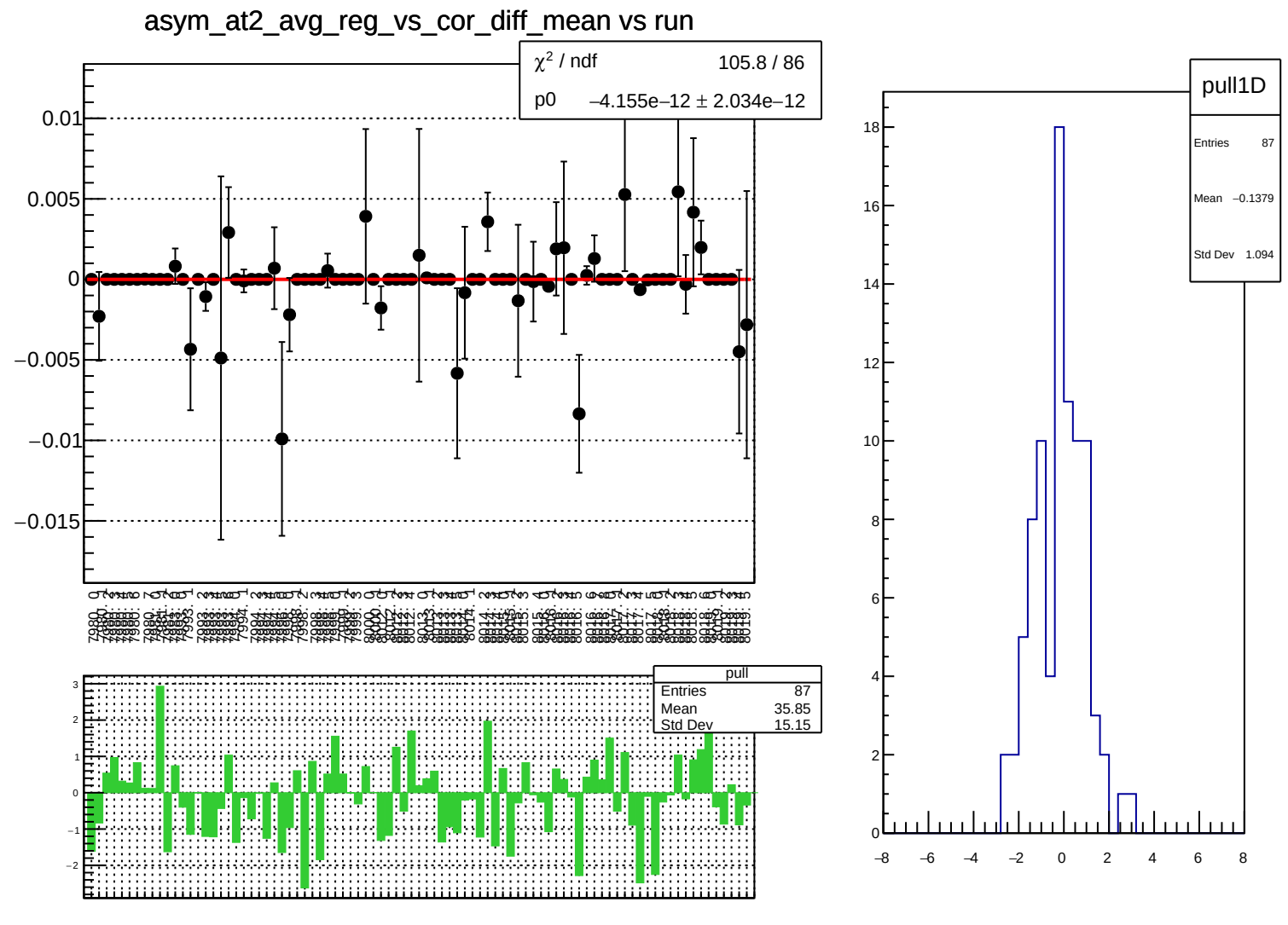

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.22 / 86
p0 −2.47e+04 ± 1.249e+04
400
200
0
−200
−400
−600
pull
Entries 87
Mean −18.16
Std Dev 49.41
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.00497
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

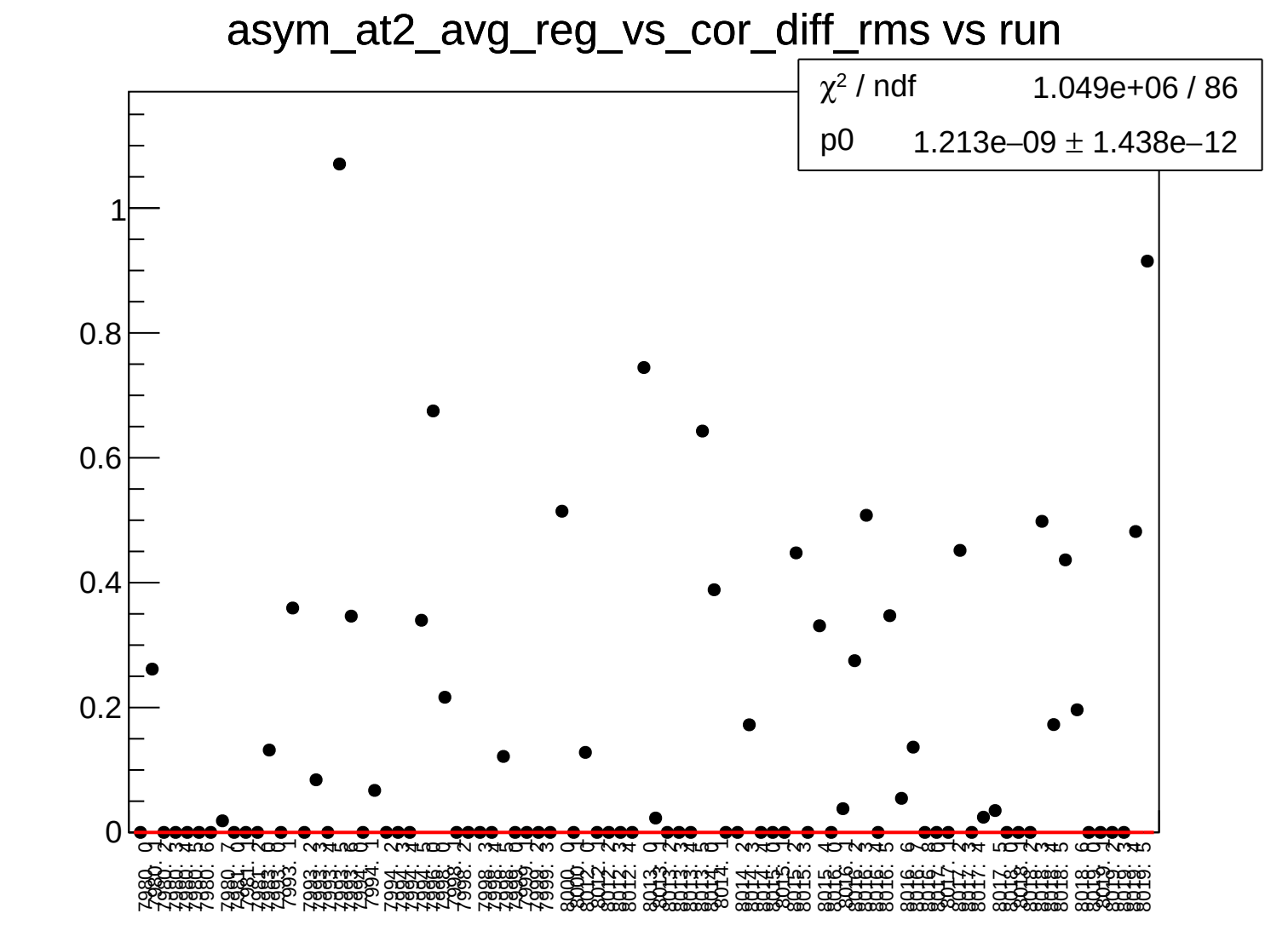

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6663 / 86
p0 1.17e+04 ± 8.832
13500
13000
12500
12000
11500
11000
10500

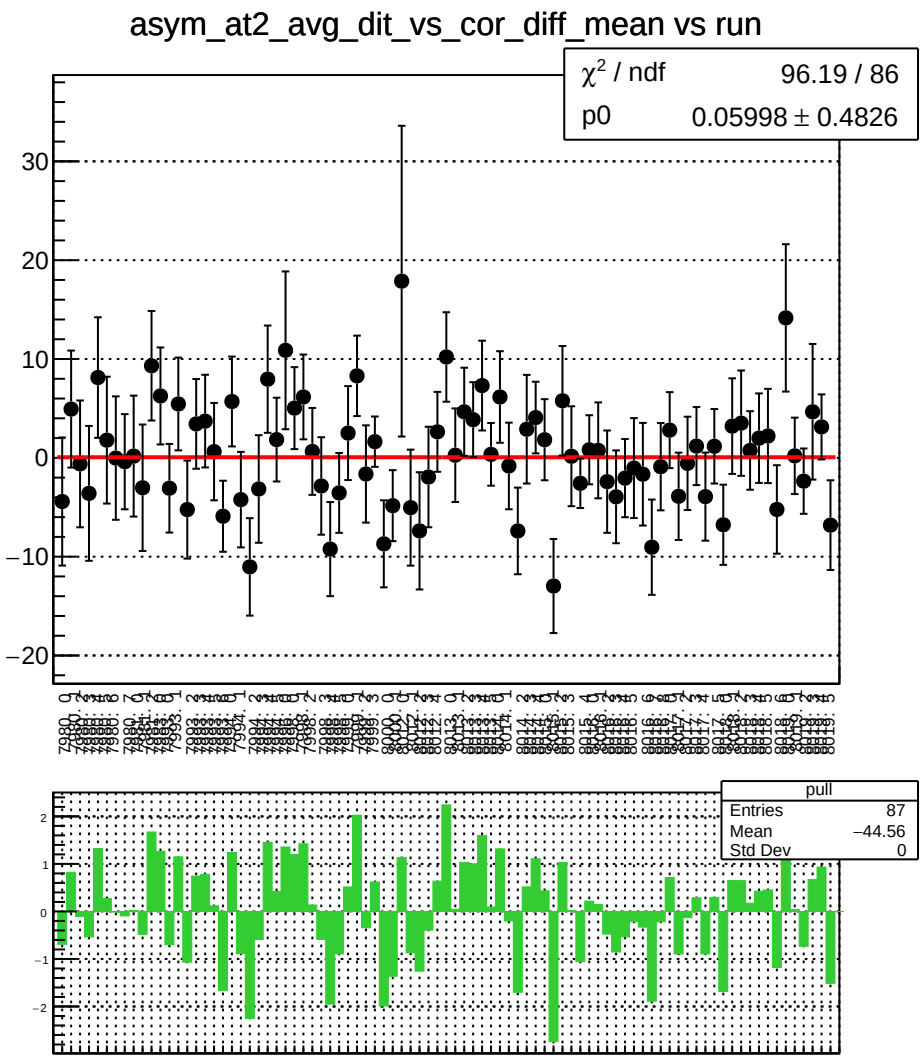

asym_at2_avg_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 85.45 / 86
p0 2.94e+04 ± 1.241e+04
pull
Entries 87
Mean −285
Std Dev 0
3
2
1
0
−1
−2

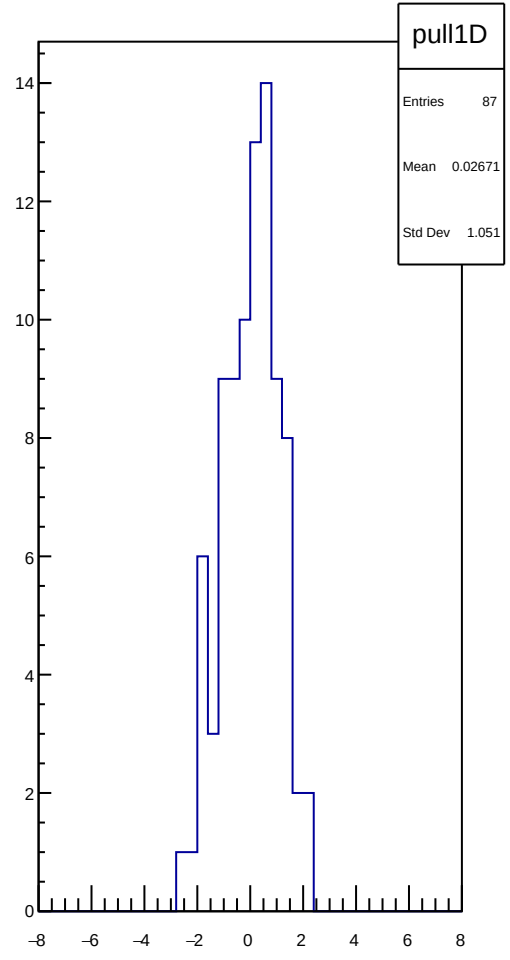

pull1D
Entries 87
Mean −0.001871
Std Dev 0.9911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

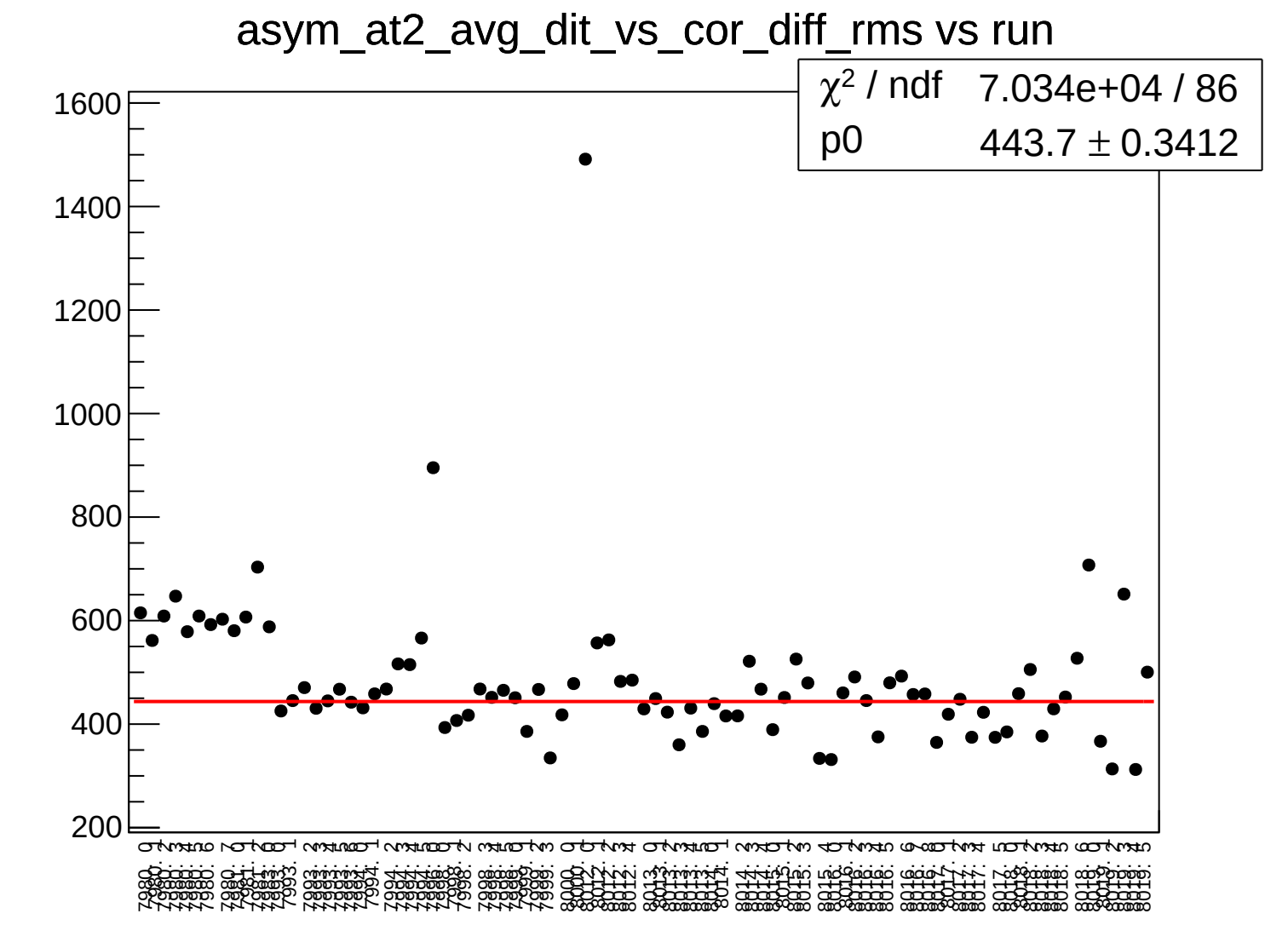

asym_at2_avg_rms vs run
χ² / ndf 5118 / 86
p0 1.162e+04 ± 8.772
13500
13000
12500
12000
11500
11000
10500

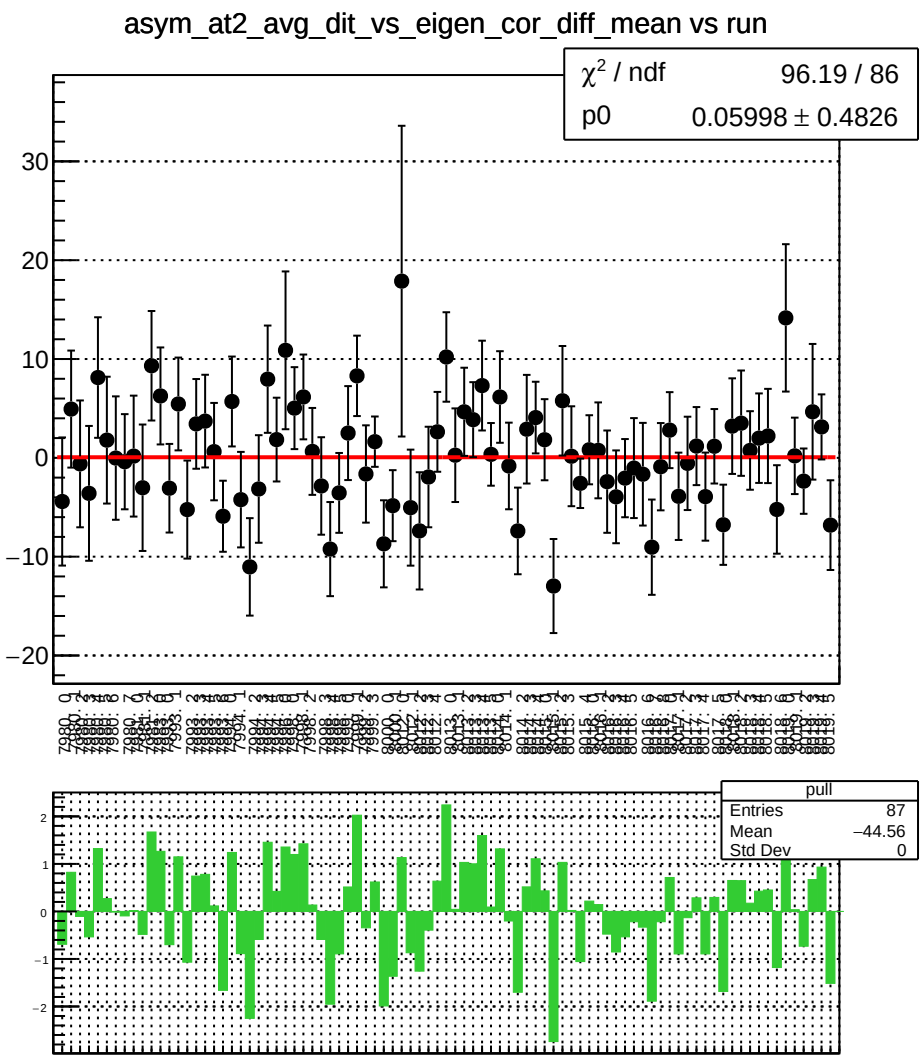

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.8 / 86
p0 −4.155e−12 ± 2.034e−12
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 87
Mean 35.85
Std Dev 15.15
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.1379
Std Dev 1.094
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

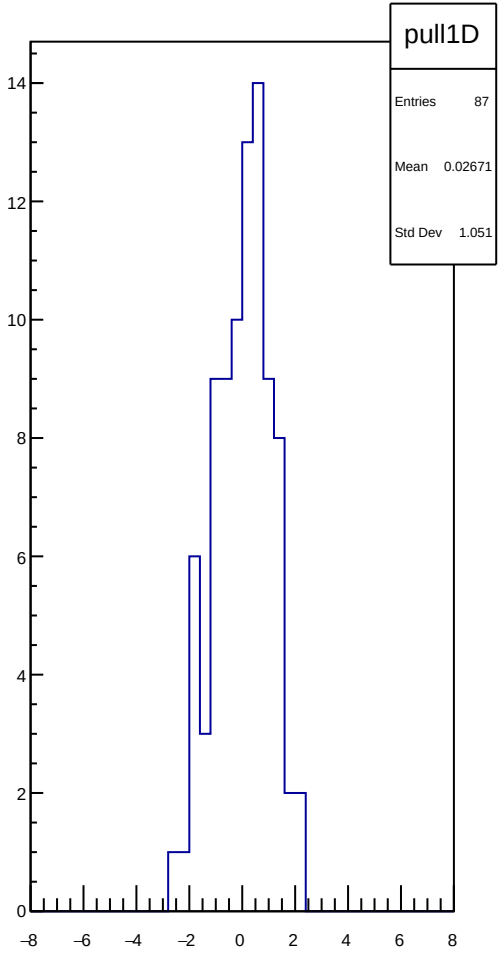

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.049e+06 / 86
p0 1.213e−09 ± 1.438e−12
1
0.8
0.6
0.4
0.2
0

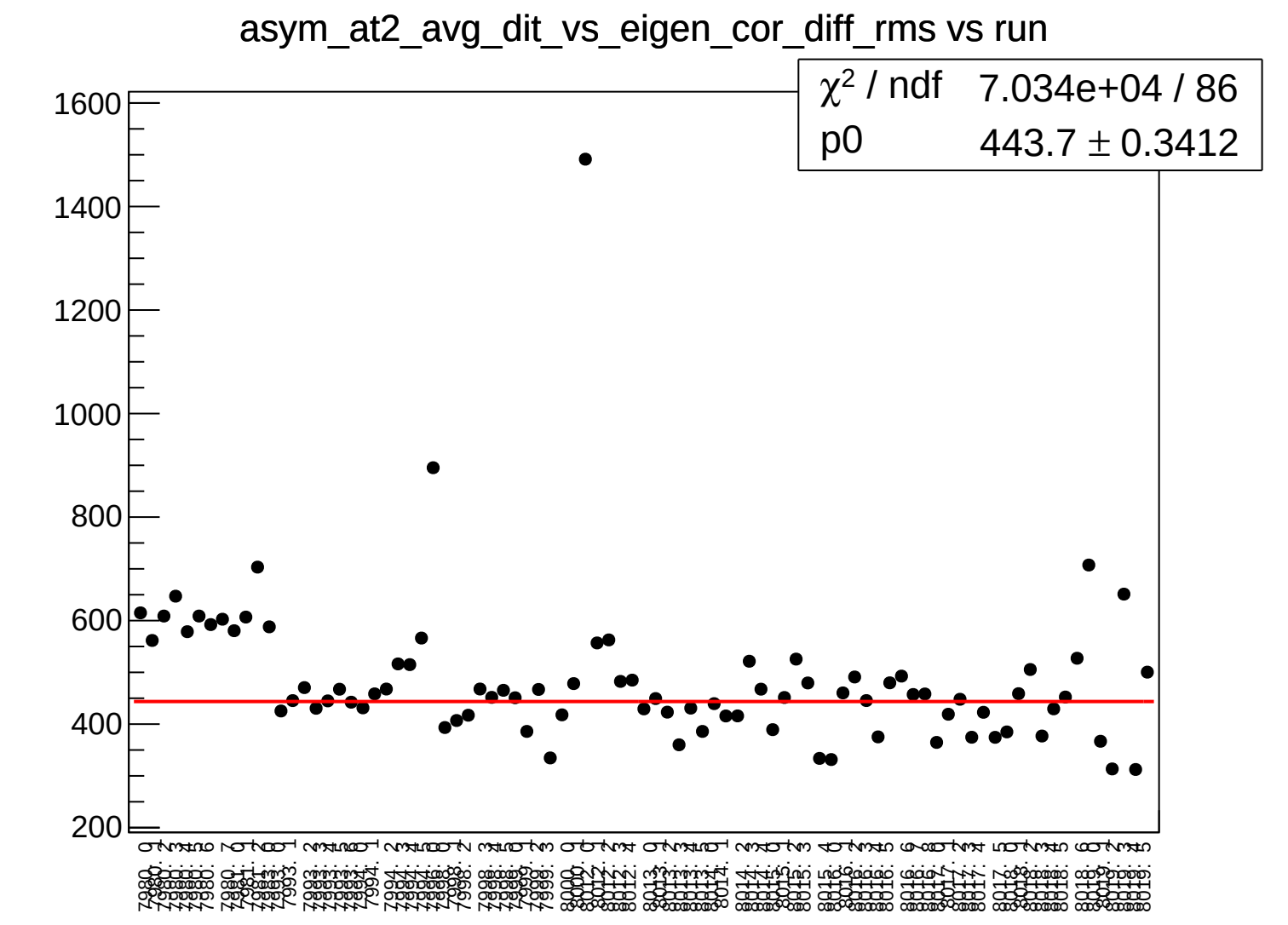

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.19 / 86
p0 0.05998 ± 0.4826
pull
Entries 87
Mean −44.56
Std Dev 0

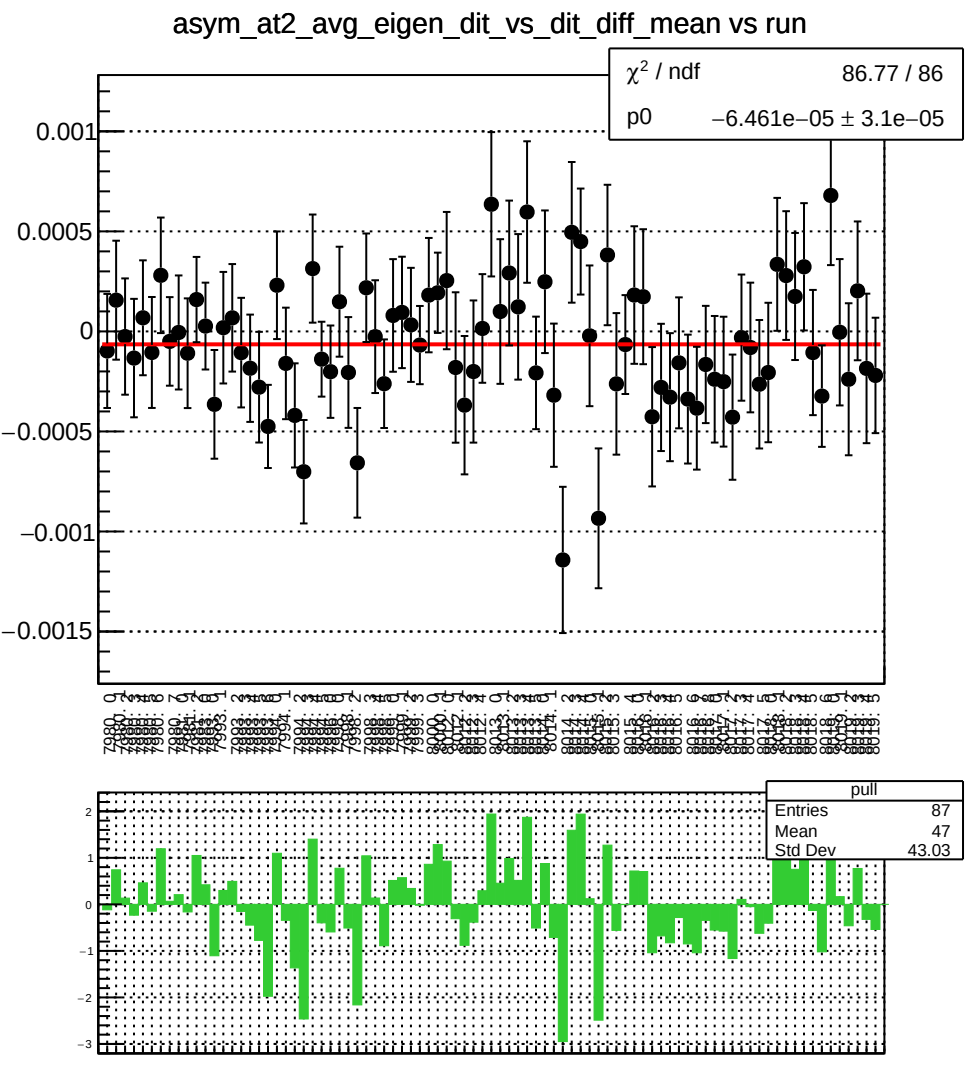

pull1D
Entries 87
Mean 0.02671
Std Dev 1.051

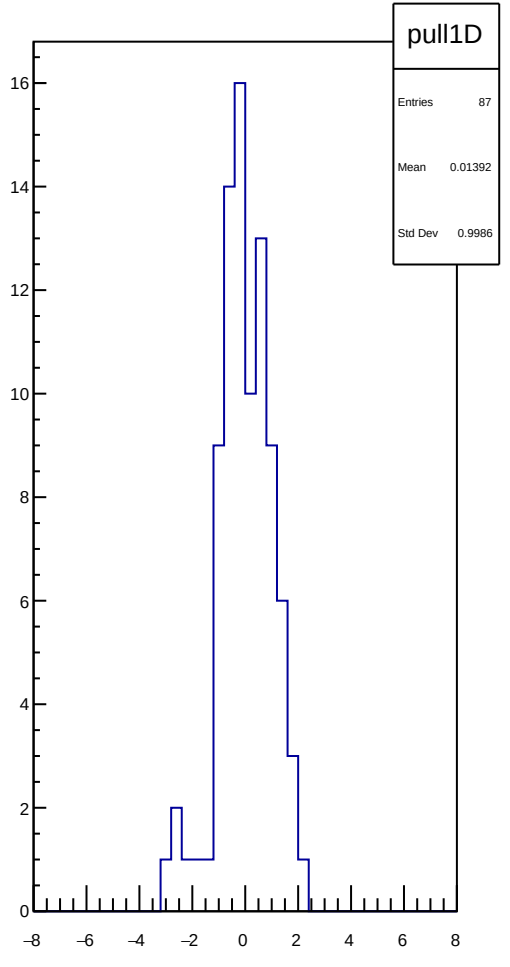

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.034e+04 / 86
p0 443.7 ± 0.3412
1600
1400
1200
1000
800
600
400
200

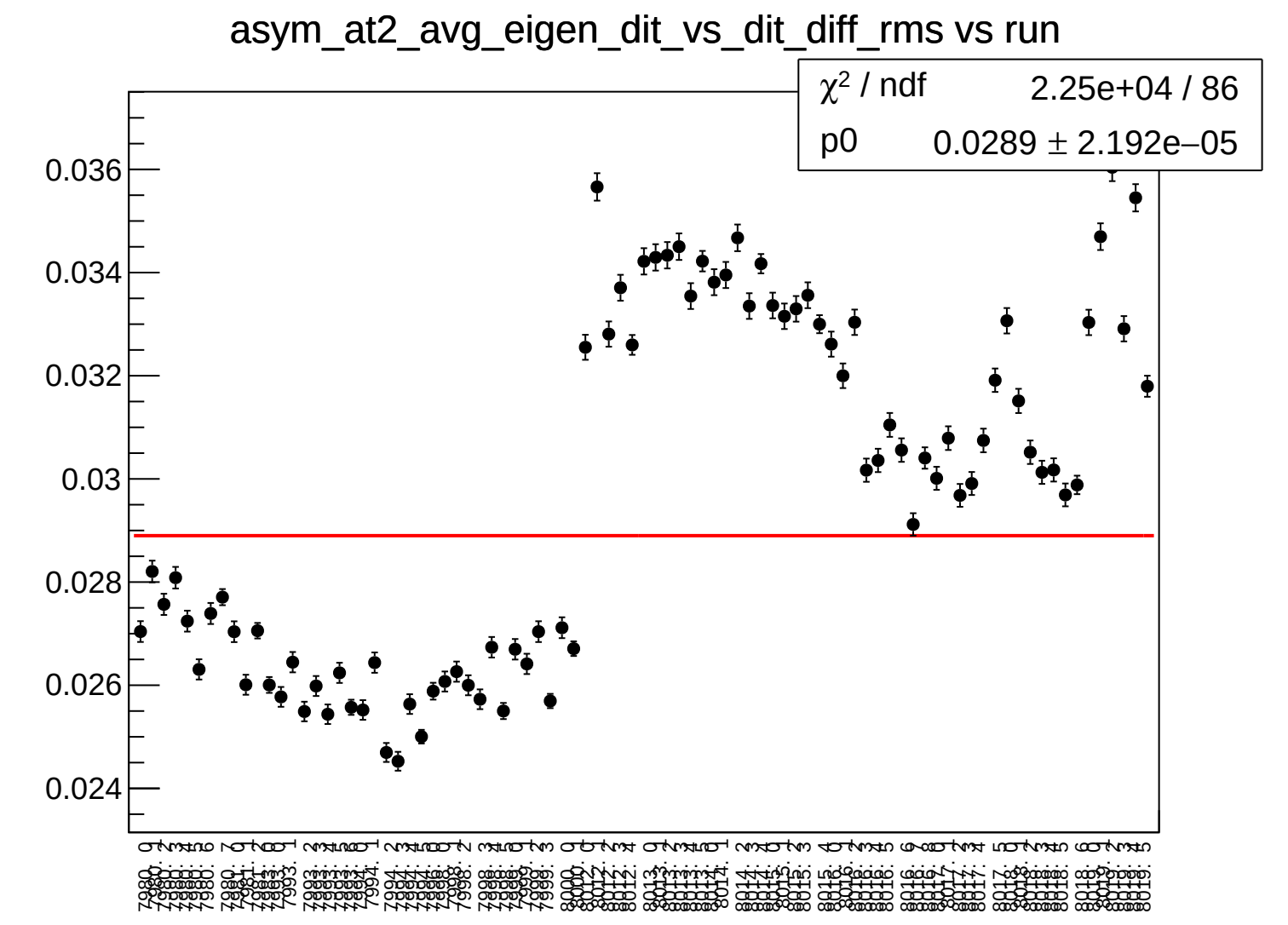

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.19 / 86
p0 0.05998 ± 0.4826
pull
Entries 87
Mean −44.56
Std Dev 0

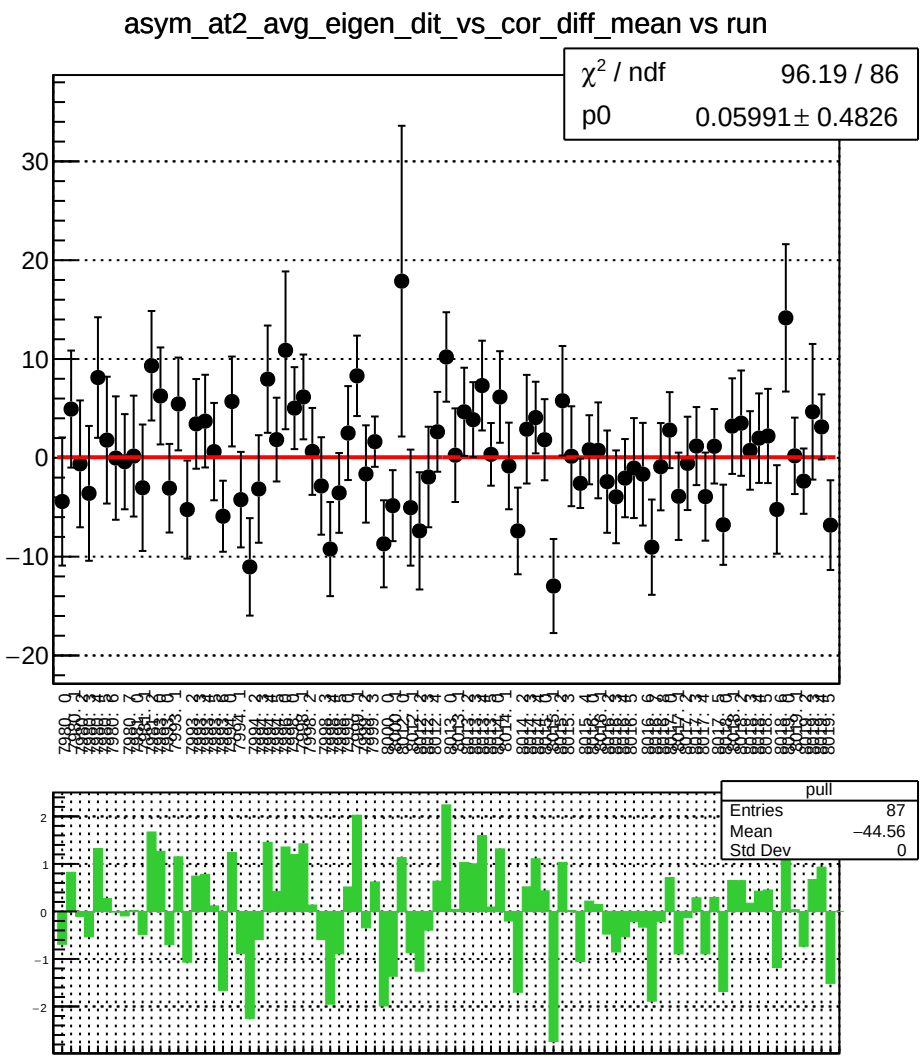

pull1D
Entries 87
Mean 0.02671
Std Dev 1.051

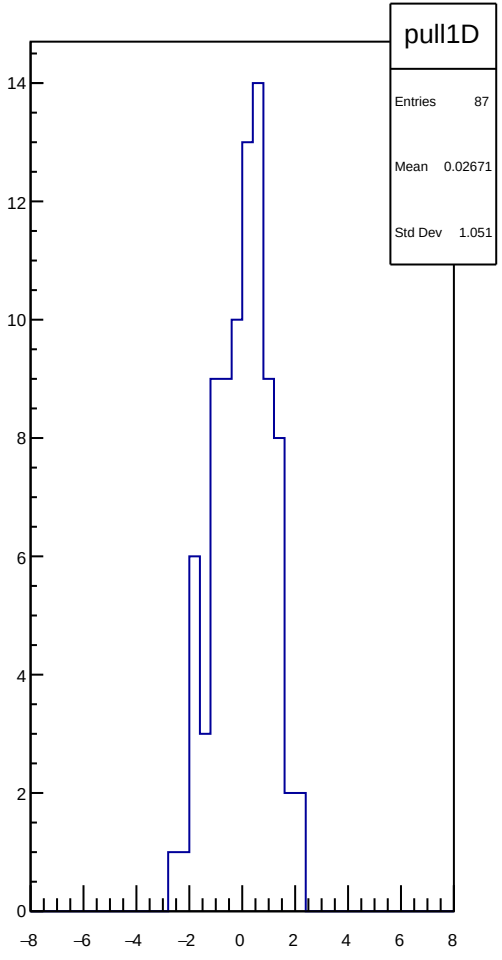

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.034e+04 / 86
p0 443.7 ± 0.3412
1600
1400
1200
1000
800
600
400
200

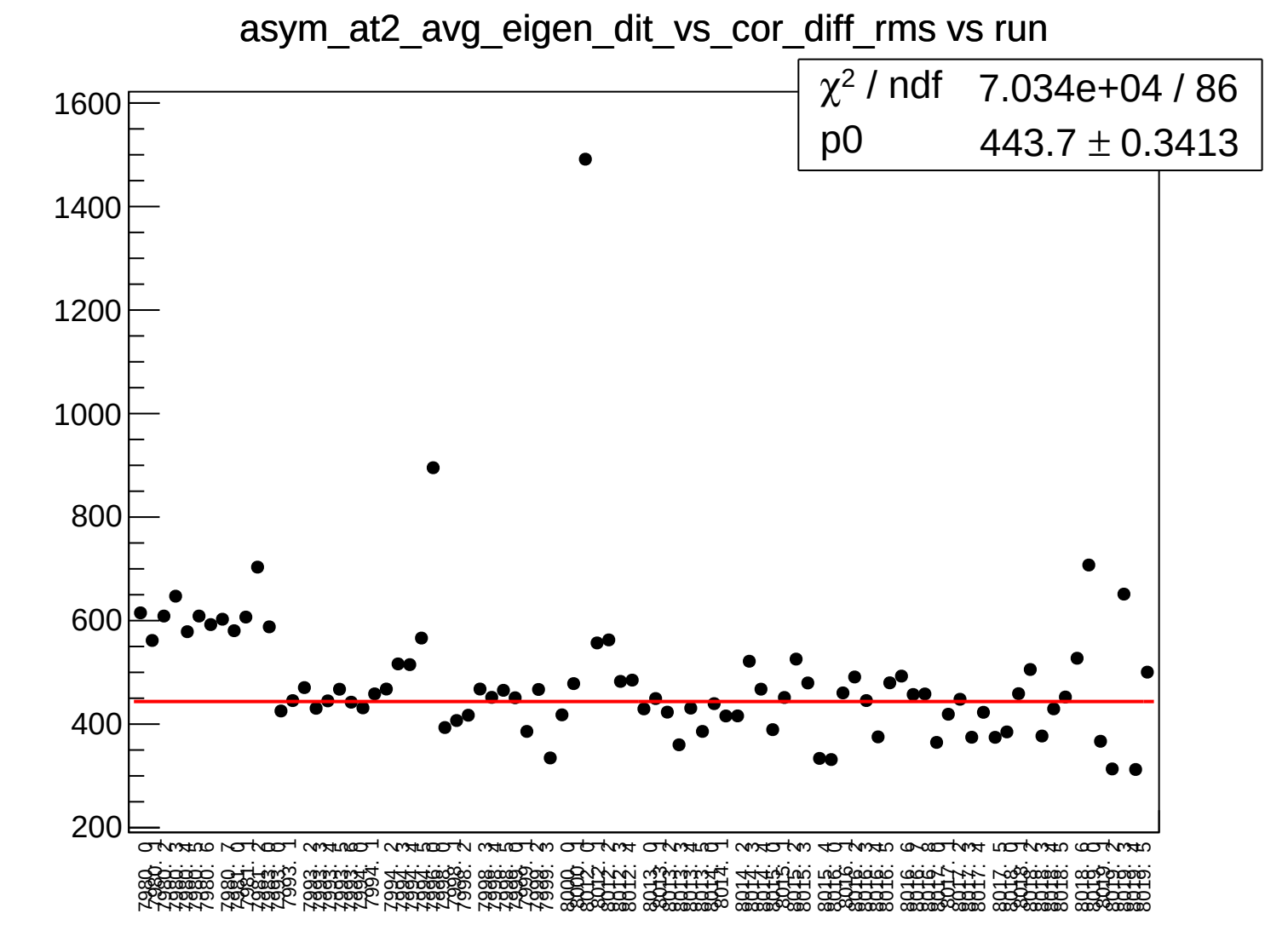

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 86.77 / 86
p0 −6.461e−05 ± 3.1e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 87
Mean 47
Std Dev 43.03
2
1
0
−1
−2
−3

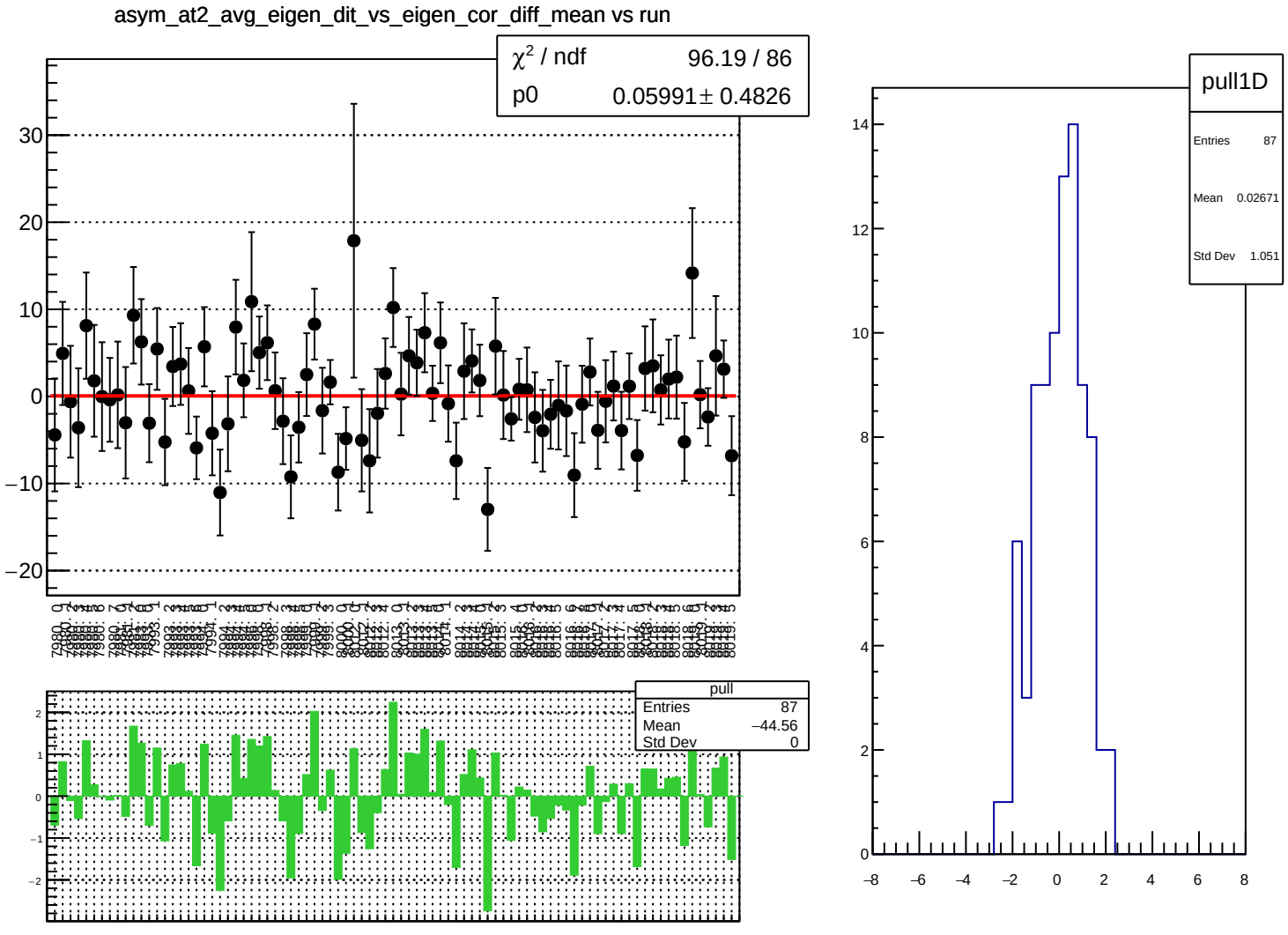

pull1D
Entries 87
Mean 0.01392
Std Dev 0.9986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

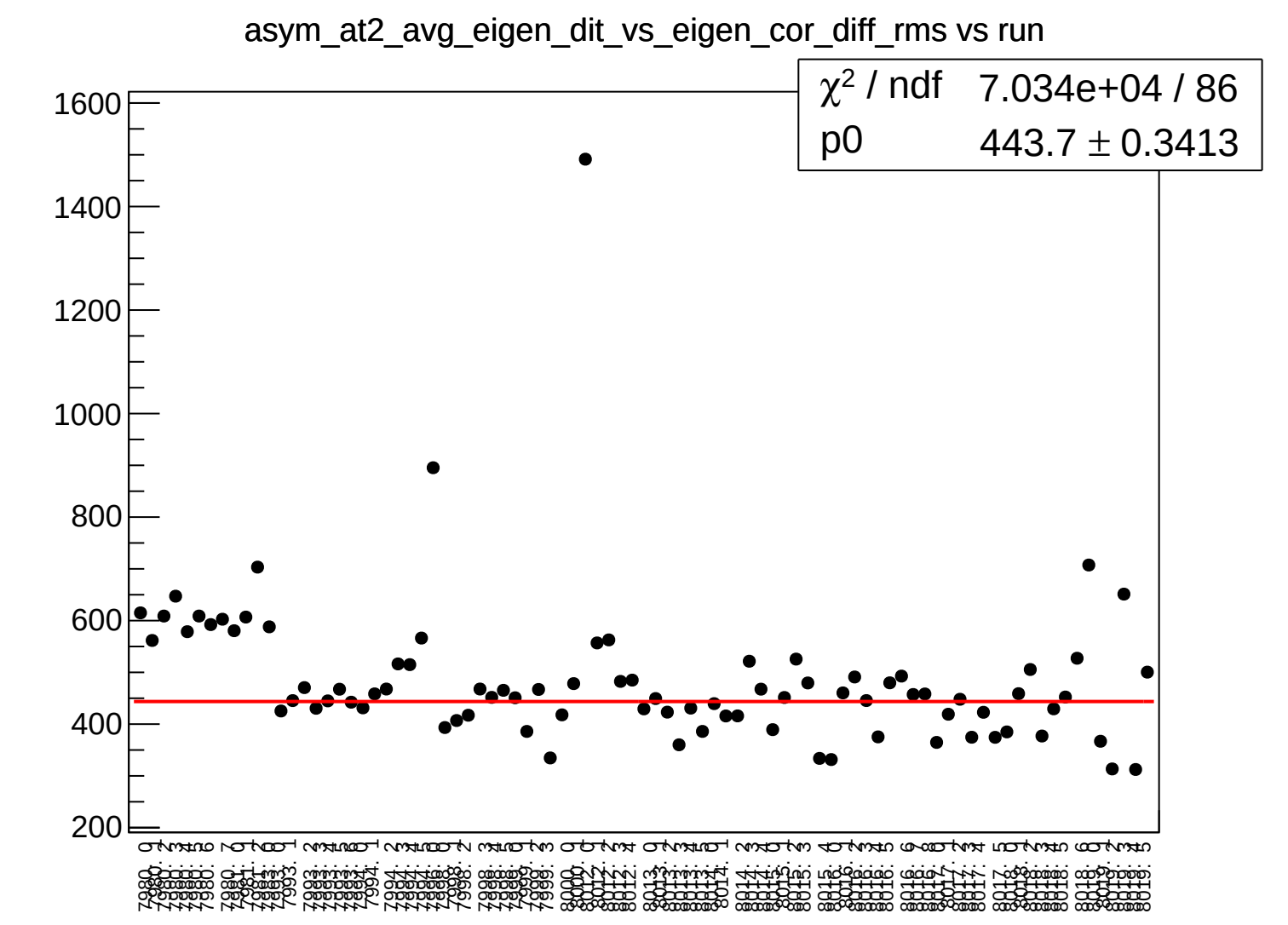

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.25e+04 / 86
p0 0.0289 ± 2.192e−05
0.036
0.034
0.032
0.03
0.028
0.026
0.024

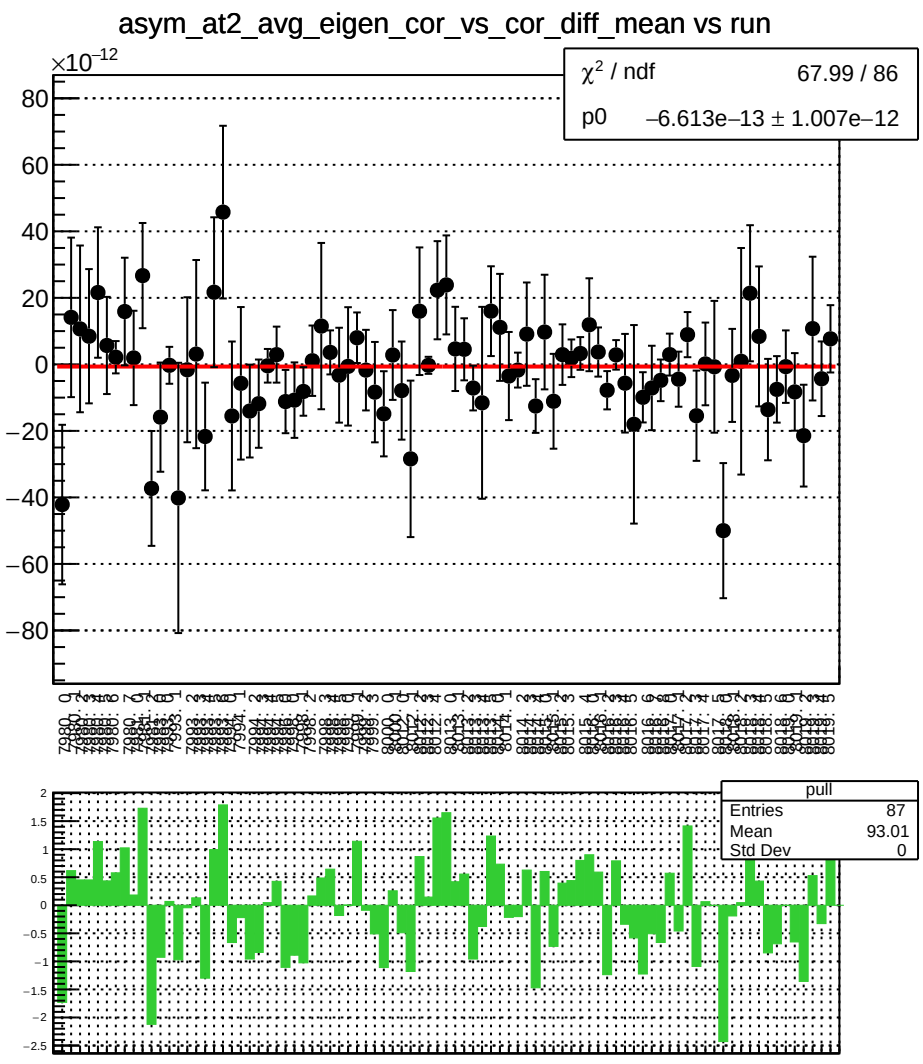

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.19 / 86
p0 0.05991 ± 0.4826
pull
Entries 87
Mean −44.56
Std Dev 0

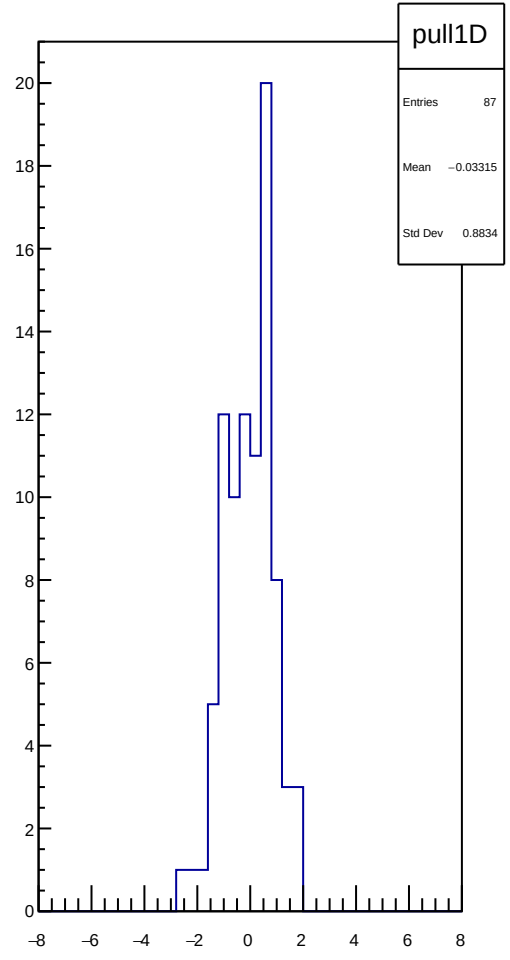

pull1D
Entries 87
Mean 0.02671
Std Dev 1.051

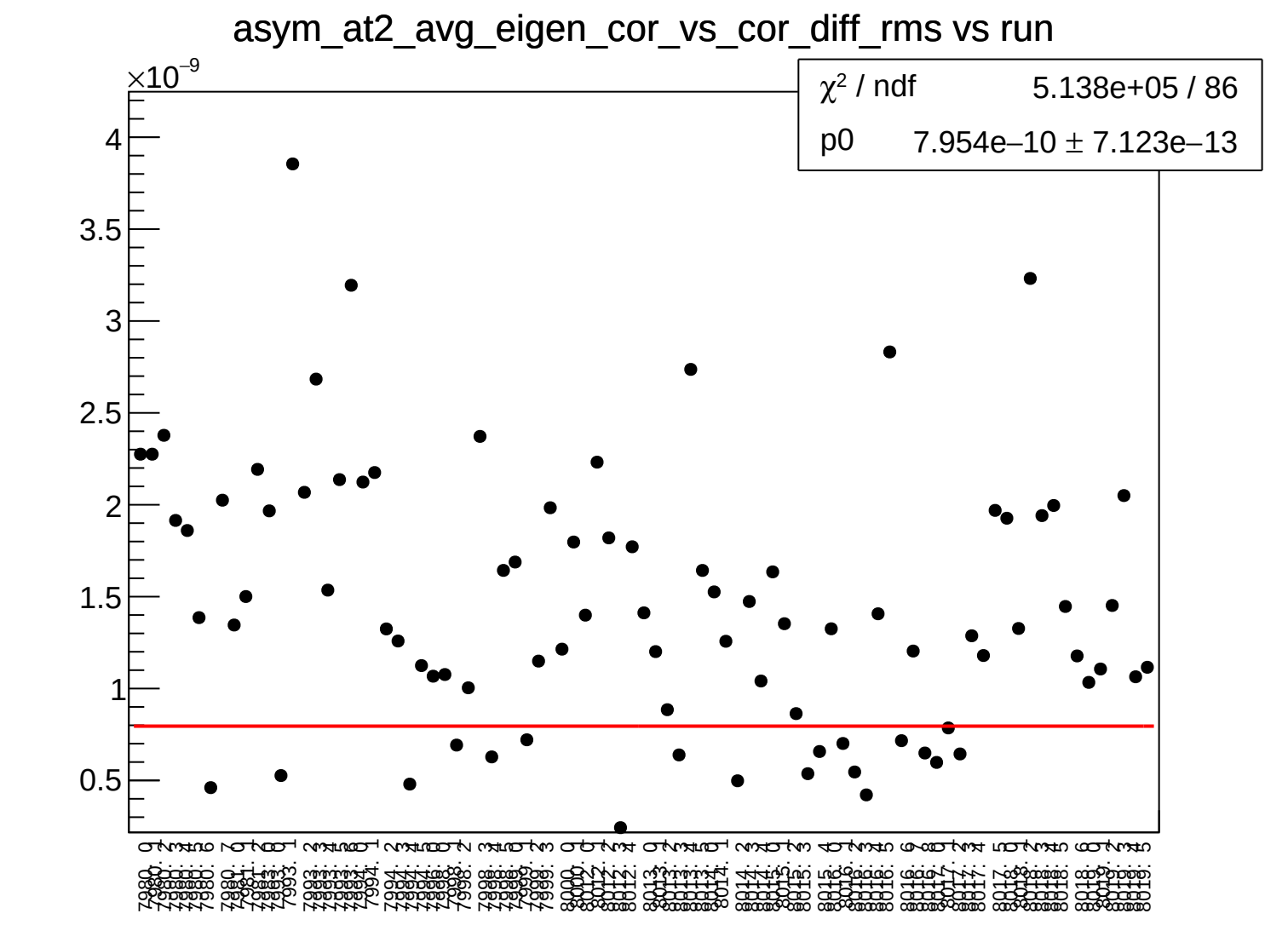

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.034e+04 / 86
p0 443.7 ± 0.3413
1600
1400
1200
1000
800
600
400
200

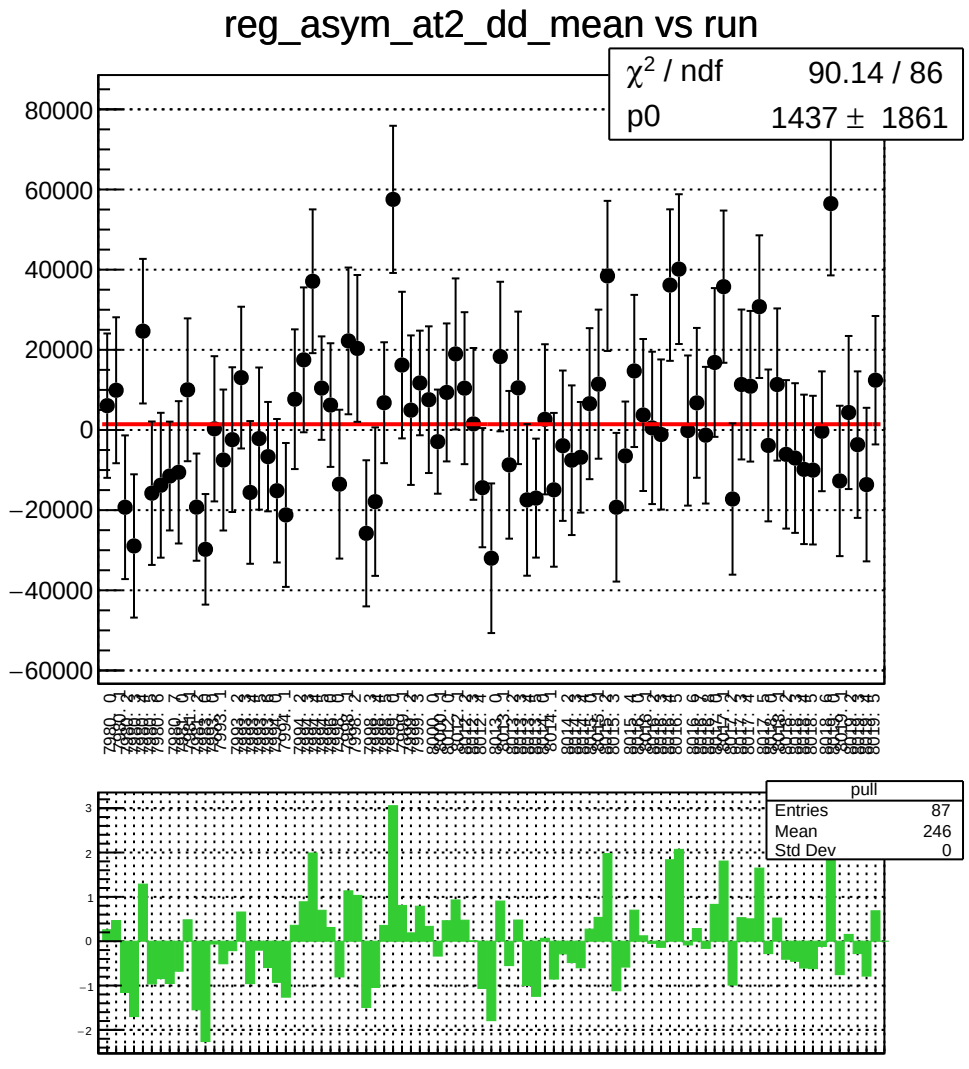

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.19 / 86
p0 0.05991 ± 0.4826
pull
Entries 87
Mean −44.56
Std Dev 0
pull1D
Entries 87
Mean 0.02671
Std Dev 1.051

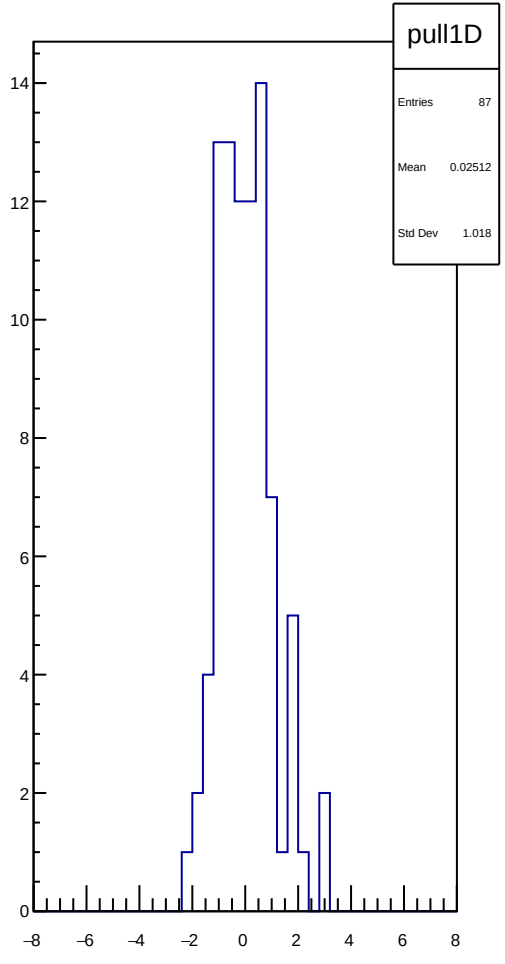

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.034e+04 / 86
p0 443.7 ± 0.3413
1600
1400
1200
1000
800
600
400
200

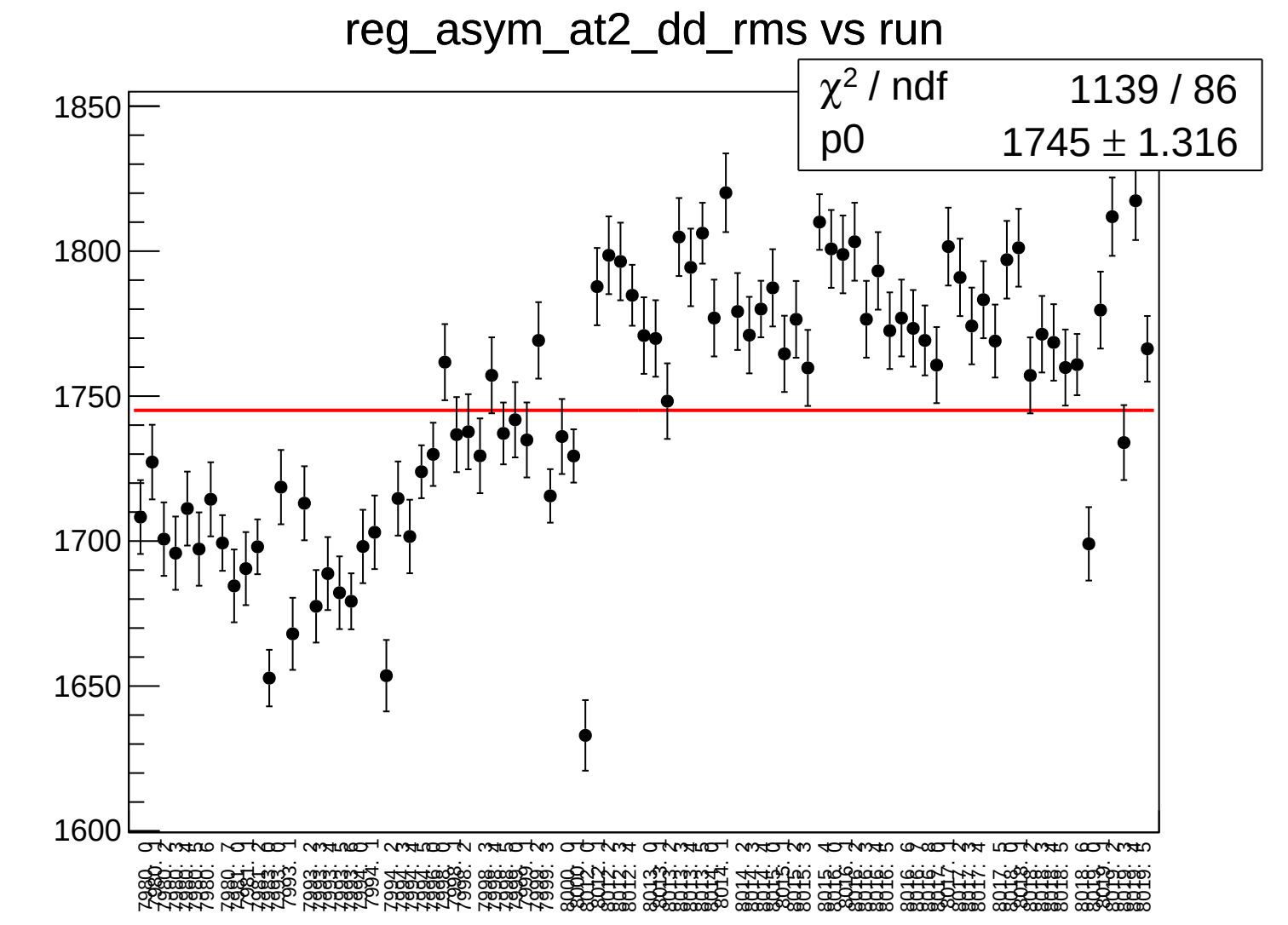

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.99 / 86
p0 −6.613e−13 ± 1.007e−12
pull
Entries 87
Mean 93.01
Std Dev 0

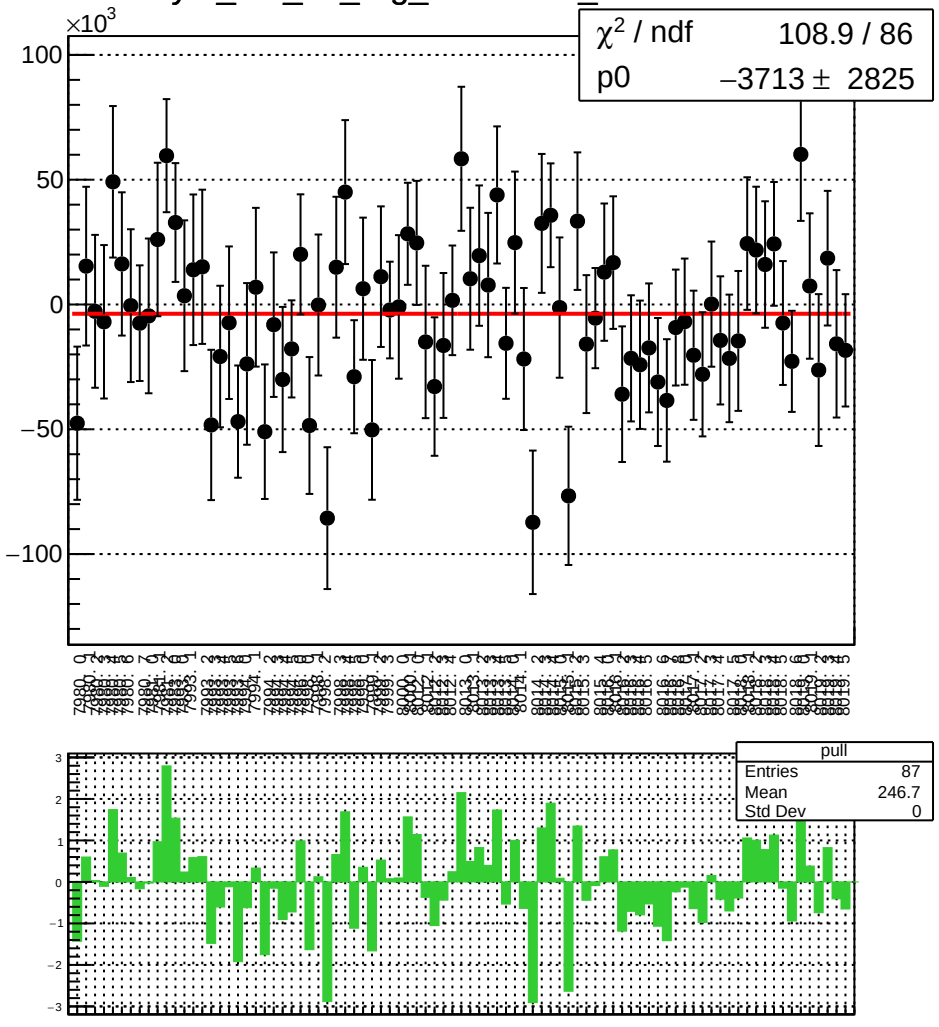

pull1D
Entries 87
Mean −0.03315
Std Dev 0.8834

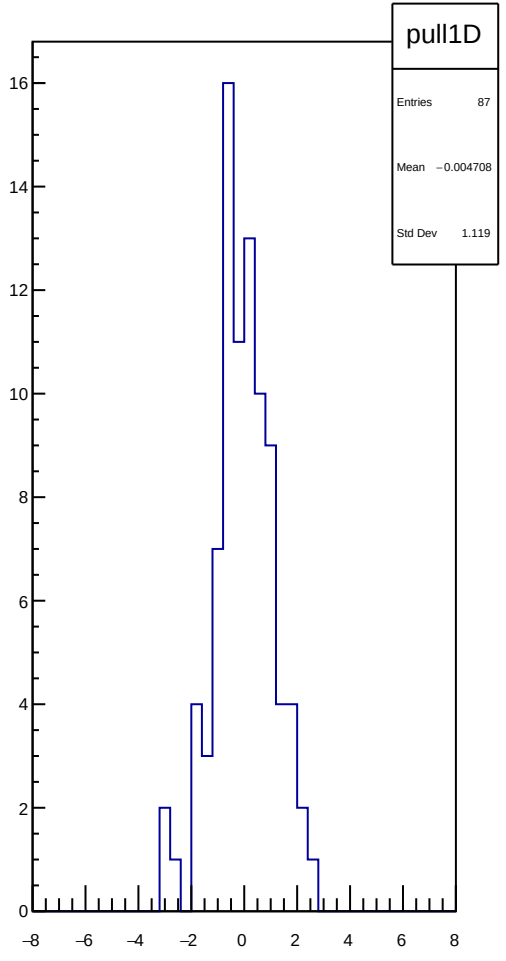

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.138e+05 / 86
p0 7.954e−10 ± 7.123e−13
4
3.5
3
2.5
2
1.5
1
0.5

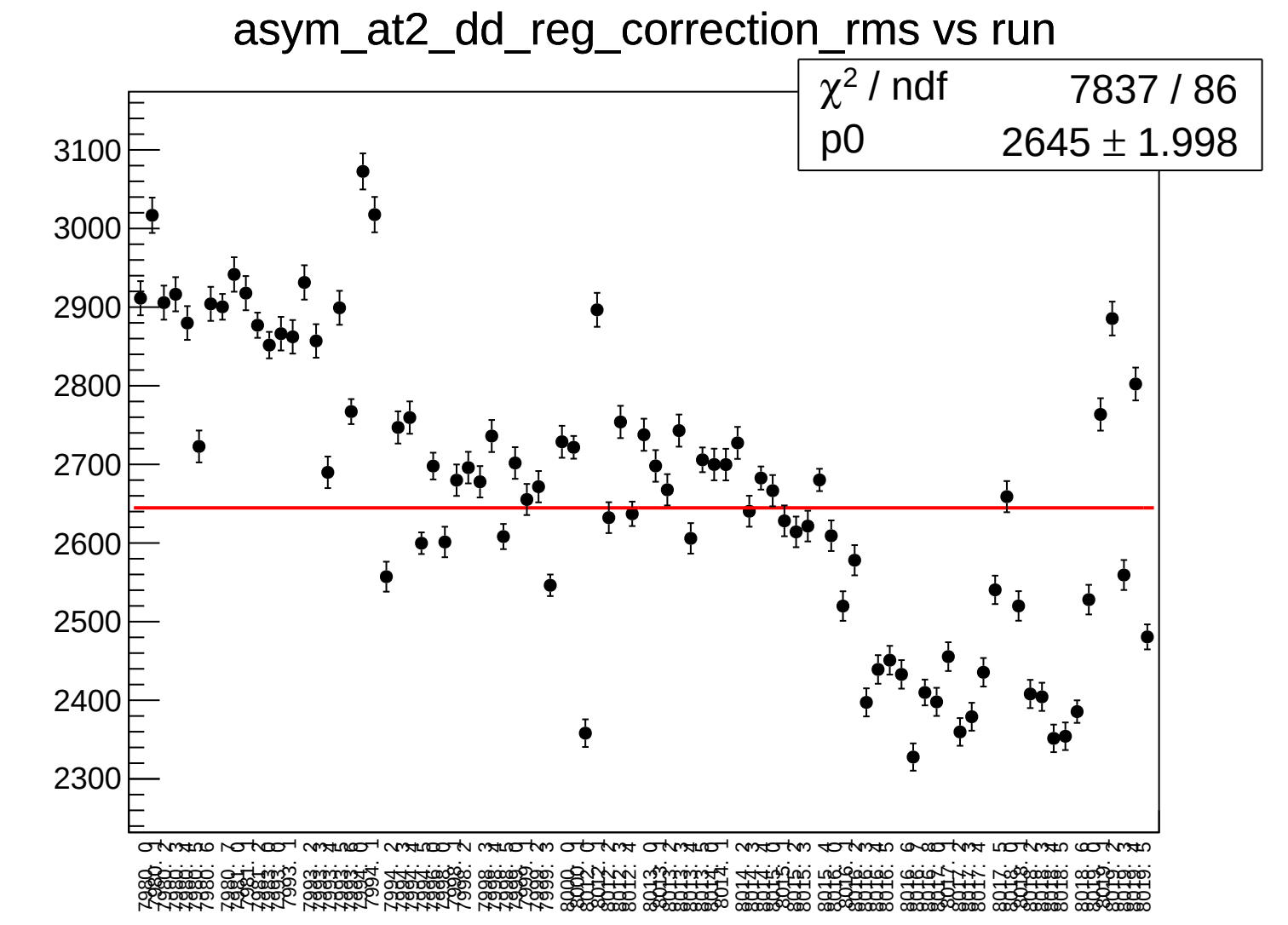

reg_asym_at2_dd_mean vs run
χ² / ndf 90.14 / 86
p0 1437 ± 1861
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 246
Std Dev 0
3
2
1
0
−1
−2

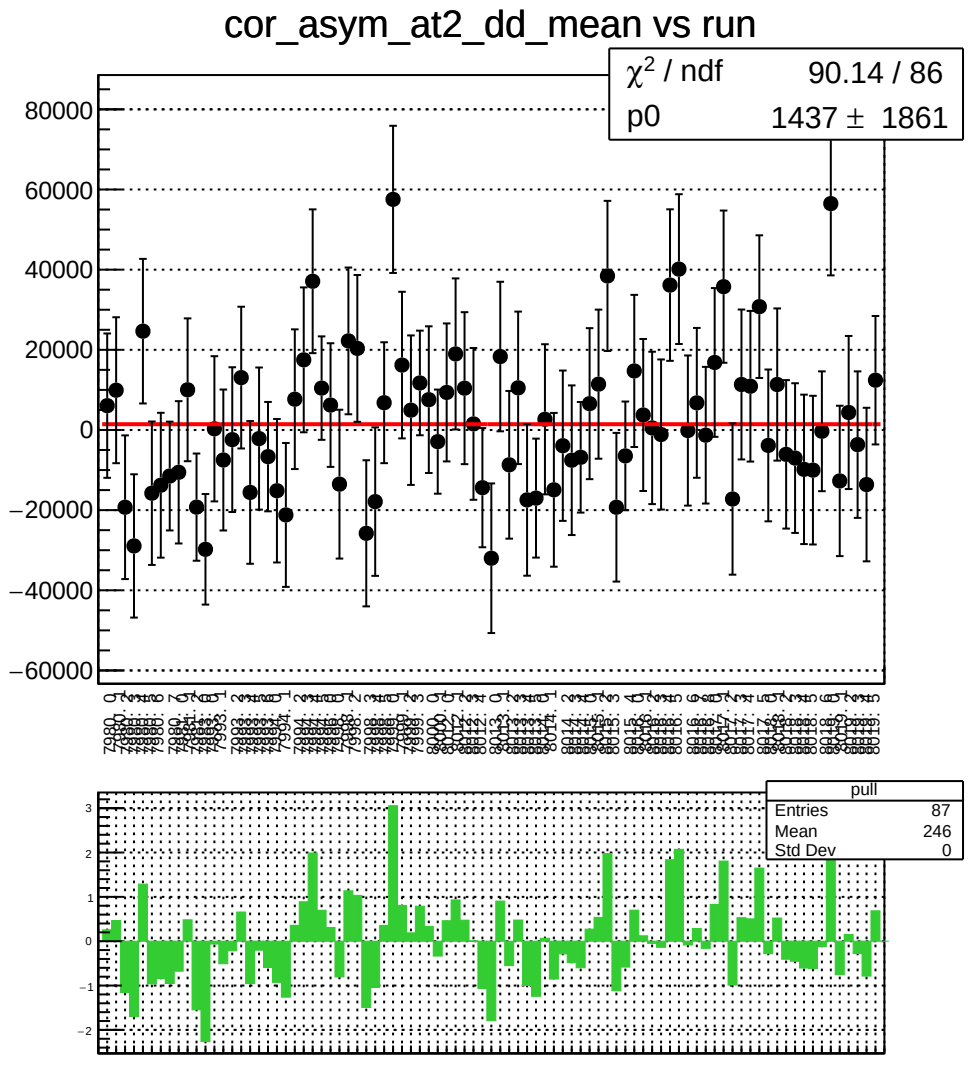

pull1D
Entries 87
Mean 0.02512
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

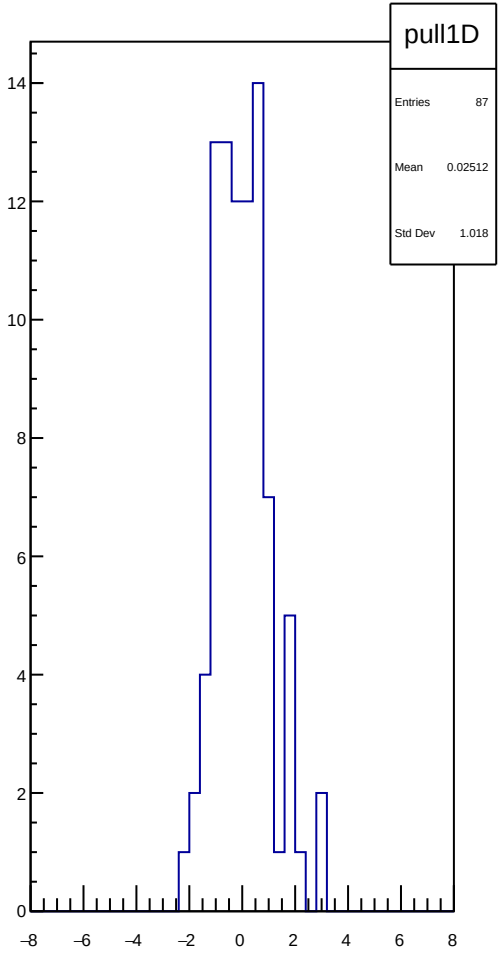

reg_asym_at2_dd_rms vs run
χ^2 / ndf 1139 / 86
p0 1745 ± 1.316
1850
1800
1750
1700
1650
1600

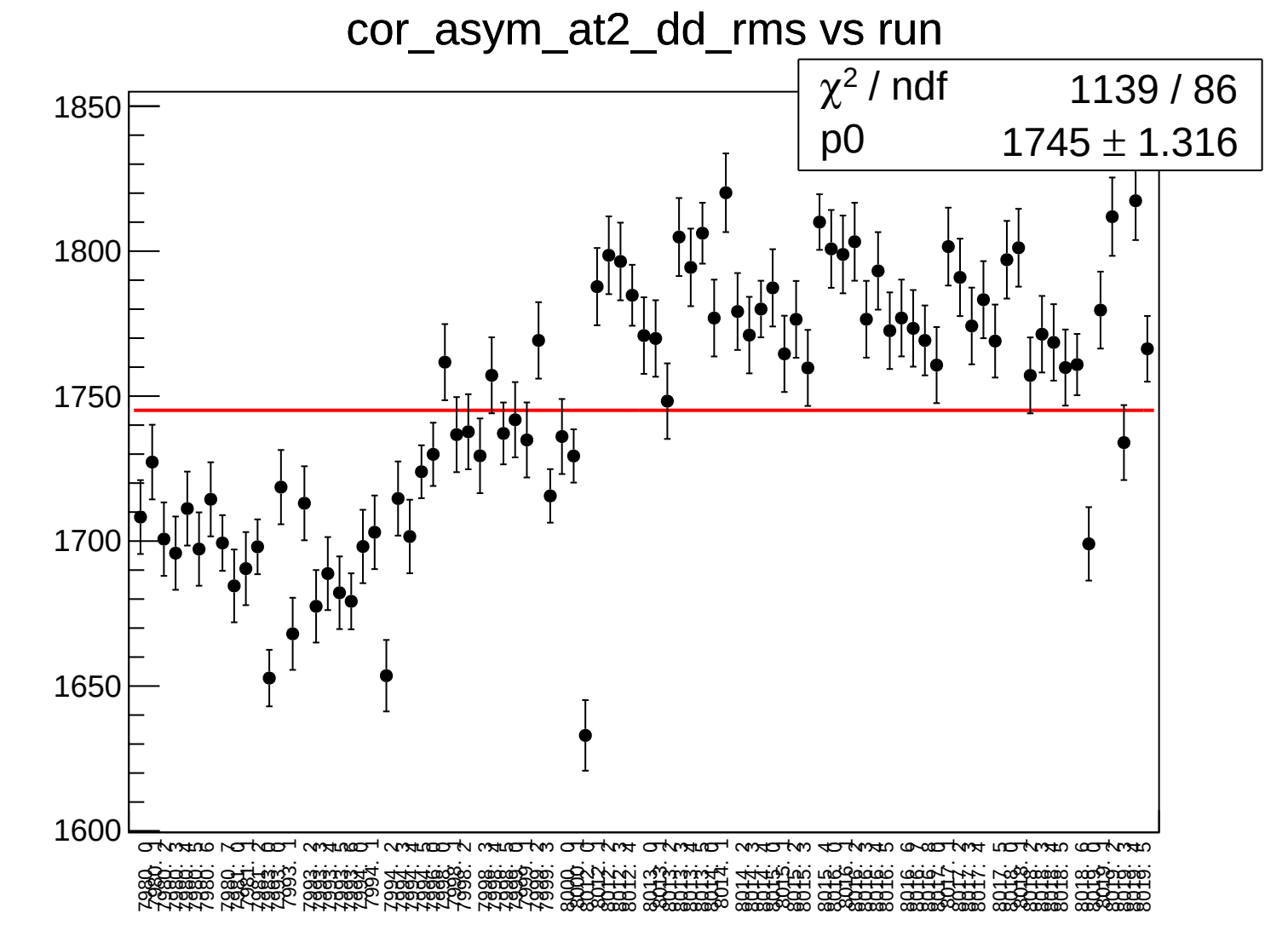

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 108.9 / 86
p0 −3713 ± 2825
pull
Entries 87
Mean 246.7
Std Dev 0

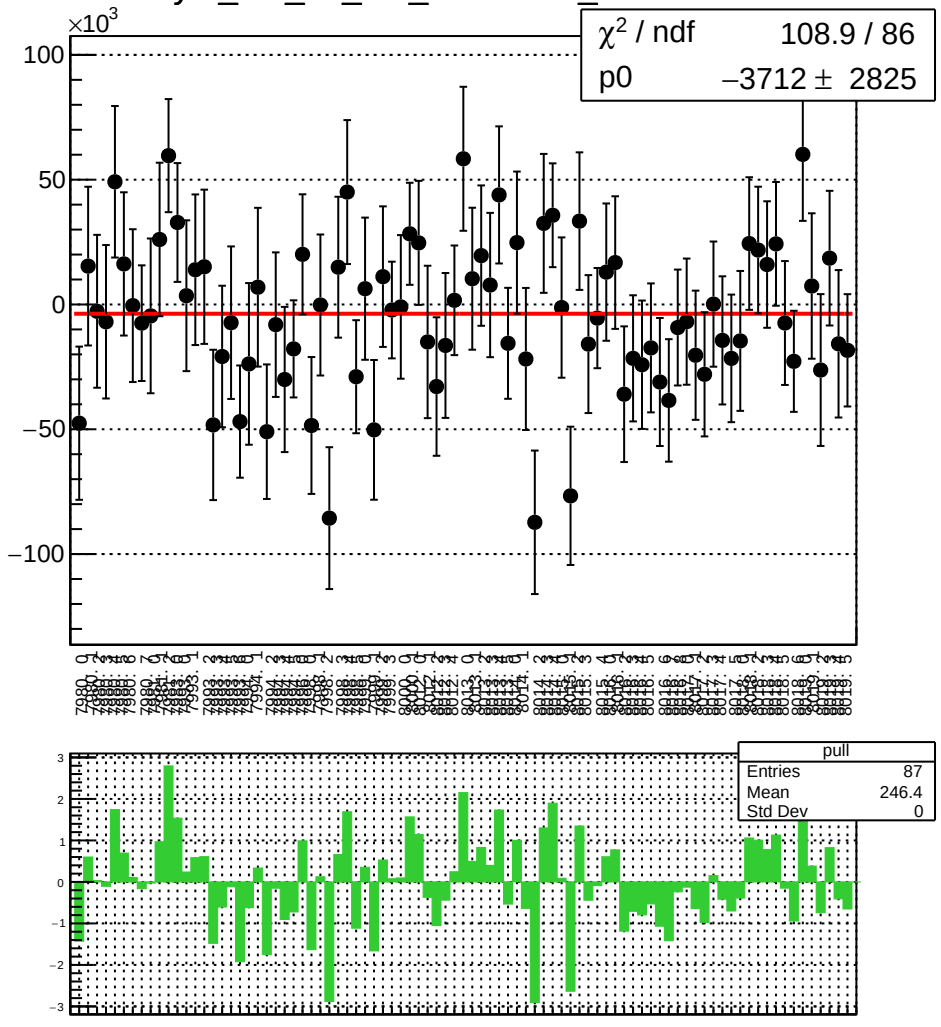

pull1D
Entries 87
Mean −0.004708
Std Dev 1.119

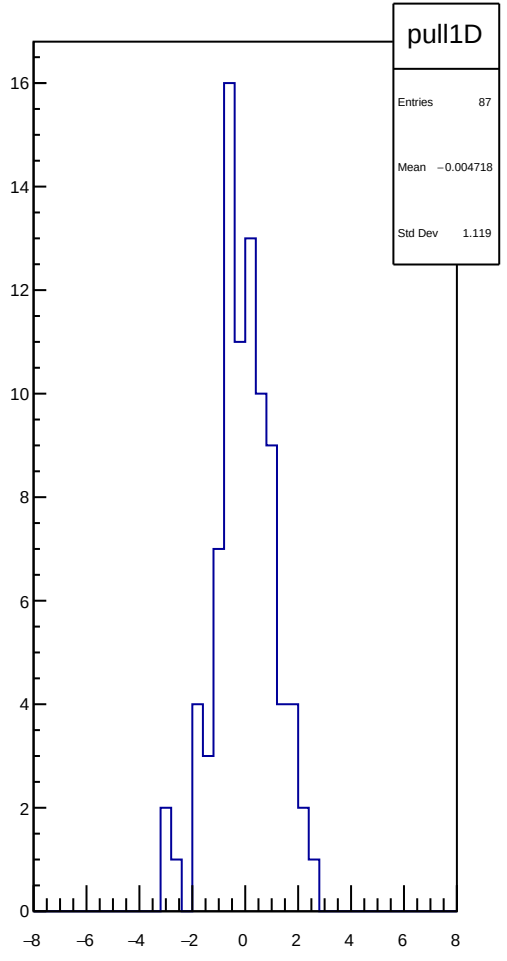

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 7837 / 86
p0 2645 ± 1.998
3100
3000
2900
2800
2700
2600
2500
2400
2300

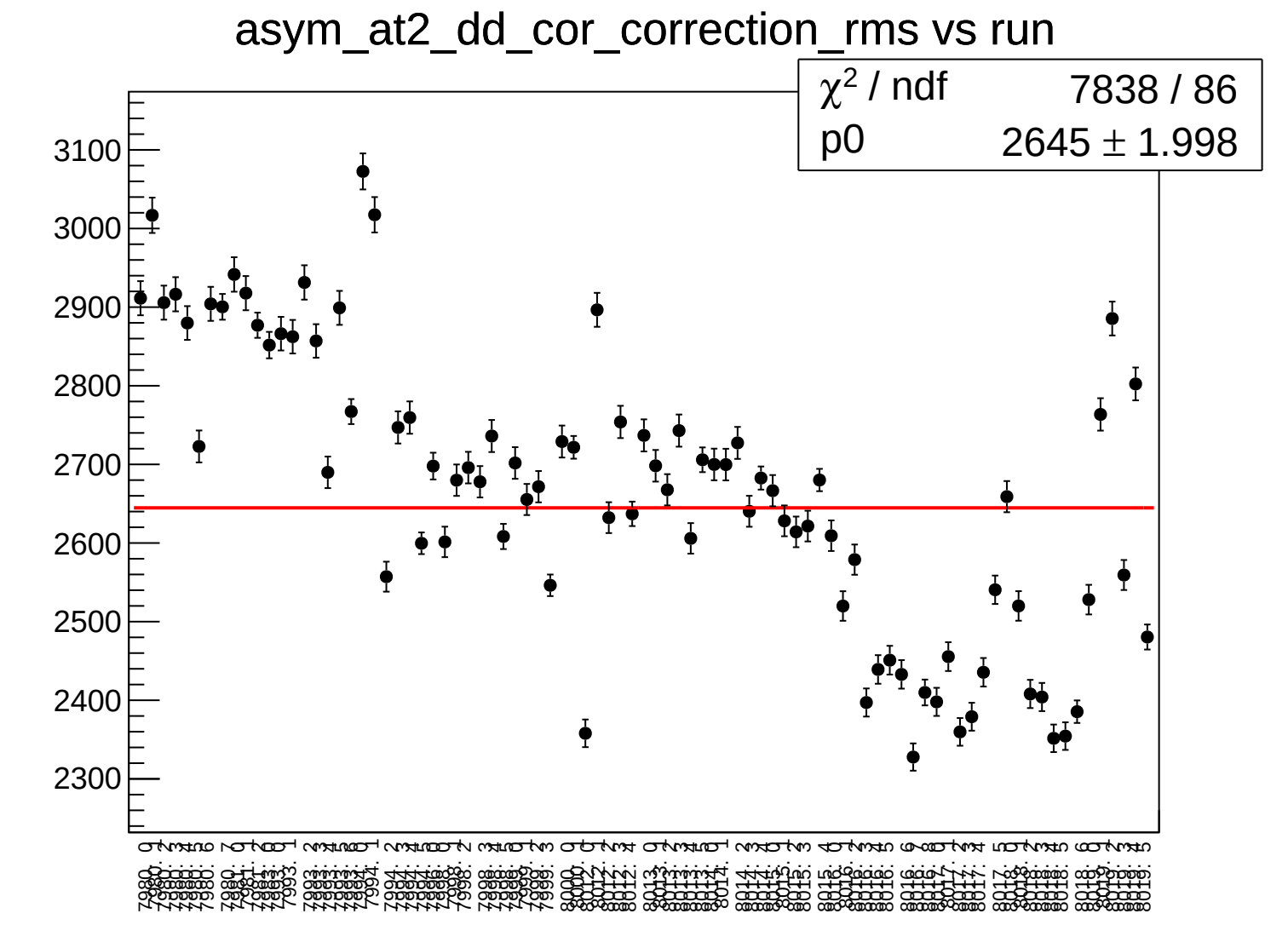

cor_asym_at2_dd_mean vs run
χ² / ndf 90.14 / 86
p0 1437 ± 1861
pull
Entries 87
Mean 246
Std Dev 0

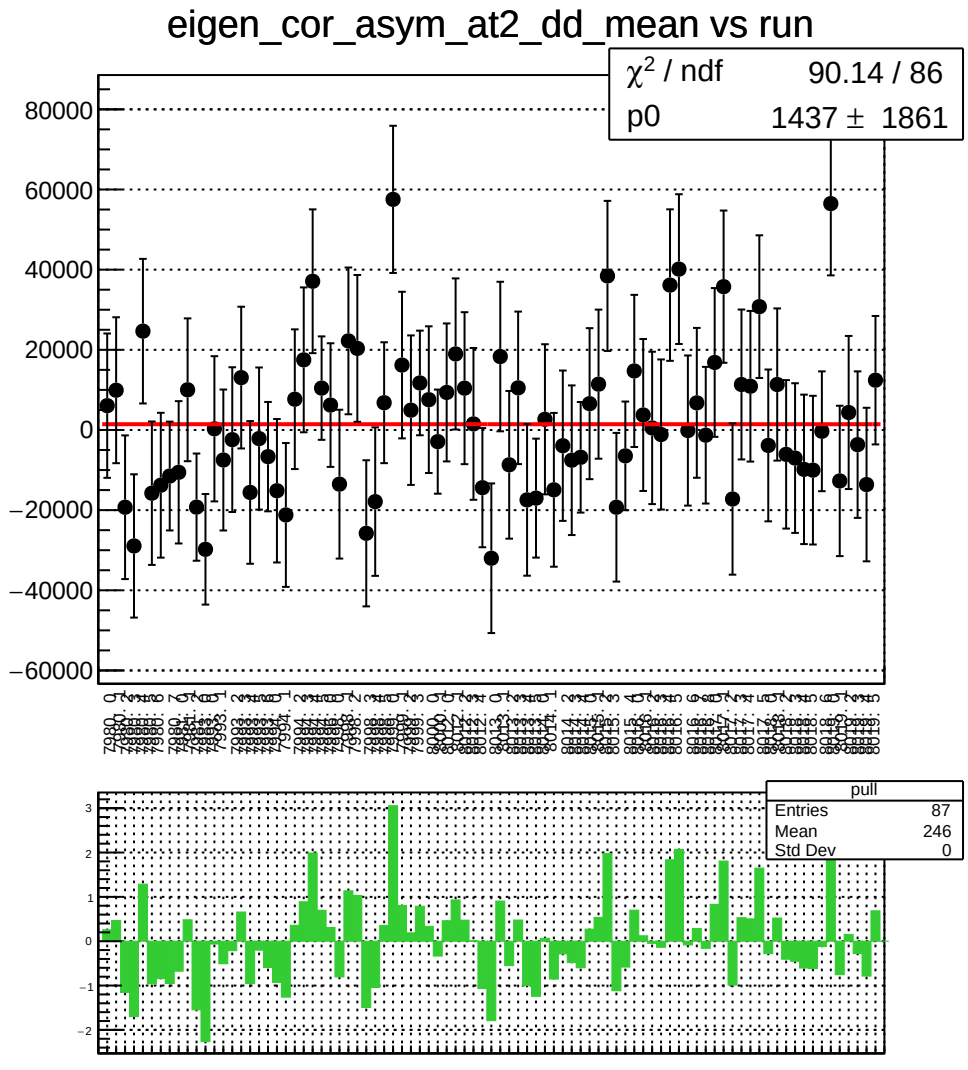

pull1D
Entries 87
Mean 0.02512
Std Dev 1.018

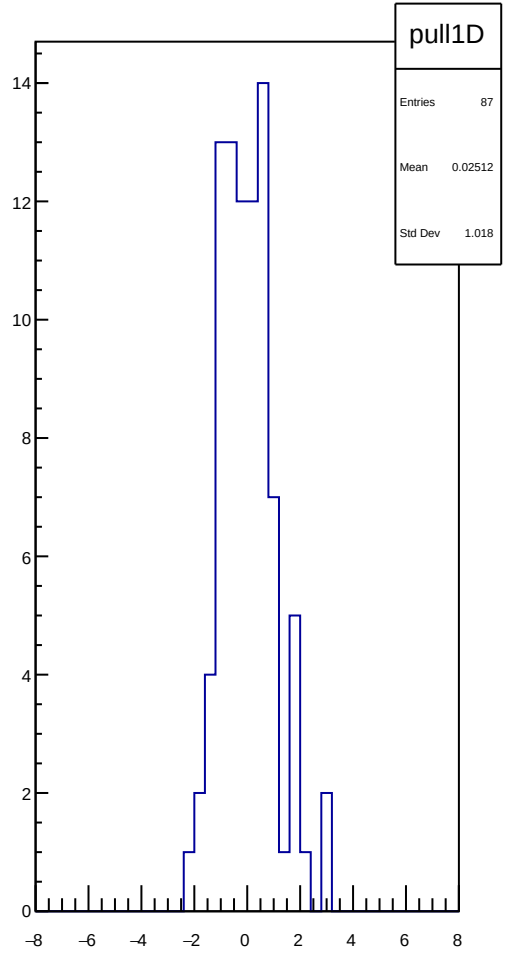

cor_asym_at2_dd_rms vs run
χ² / ndf 1139 / 86
p0 1745 ± 1.316
1850
1800
1750
1700
1650
1600

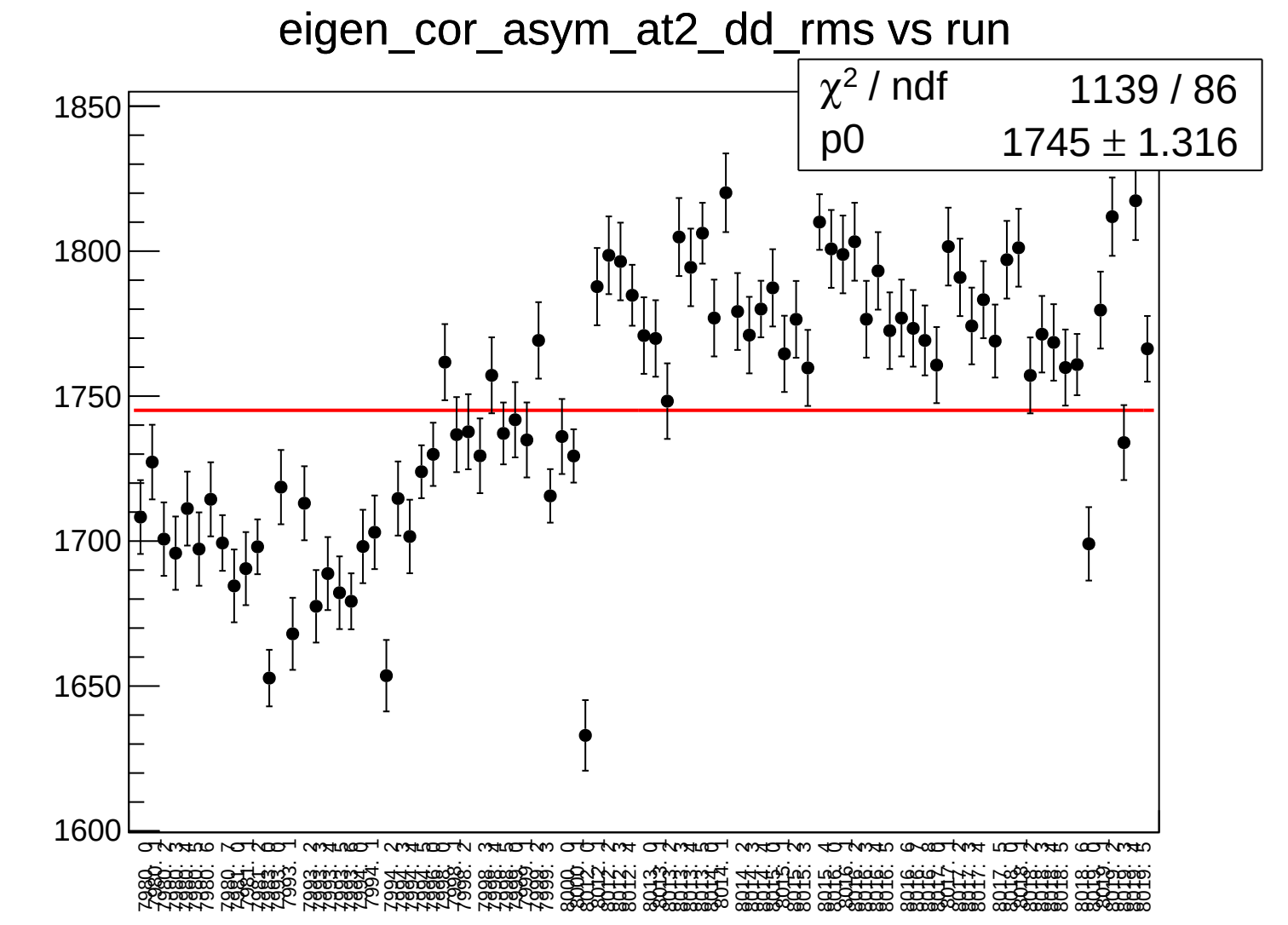

asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 108.9 / 86
p0 −3712 ± 2825
100
50
0
−50
−100
pull
Entries 87
Mean 246.4
Std Dev 0
3
2
1
0
−1
−2
−3

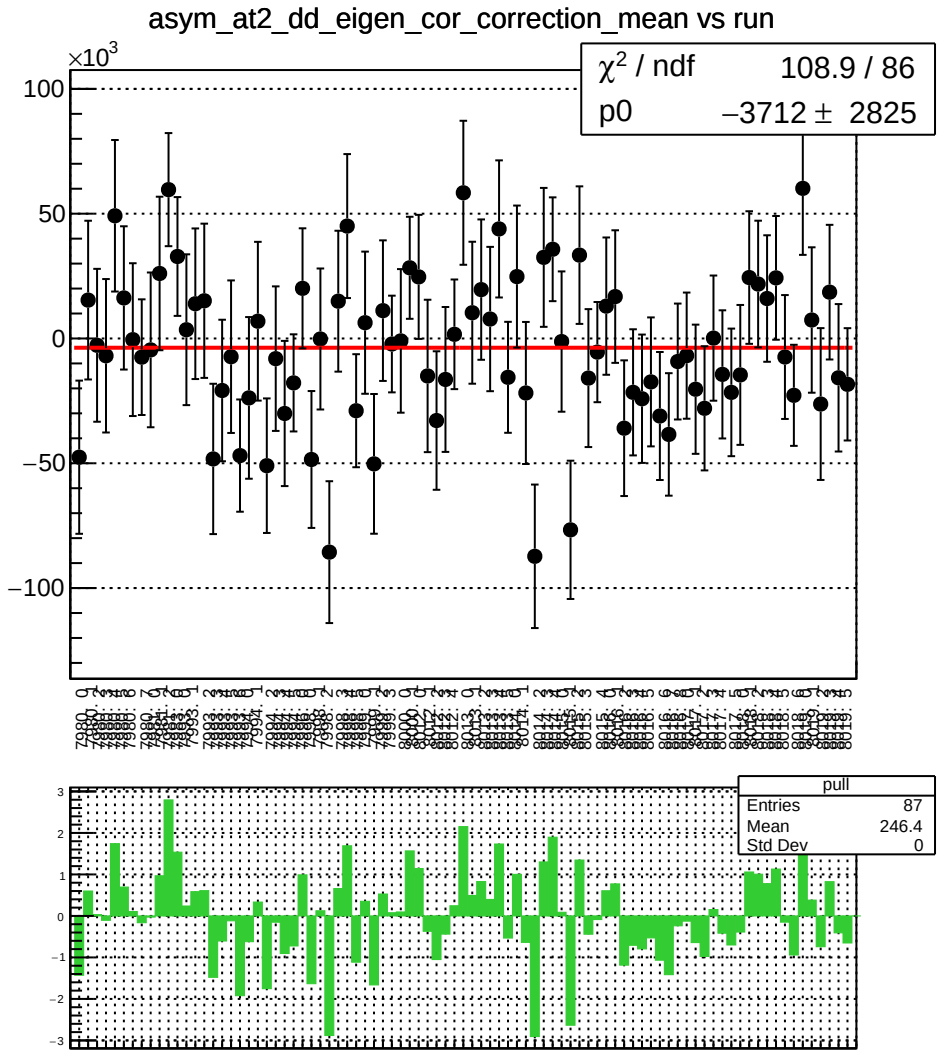

pull1D
Entries 87
Mean −0.004718
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

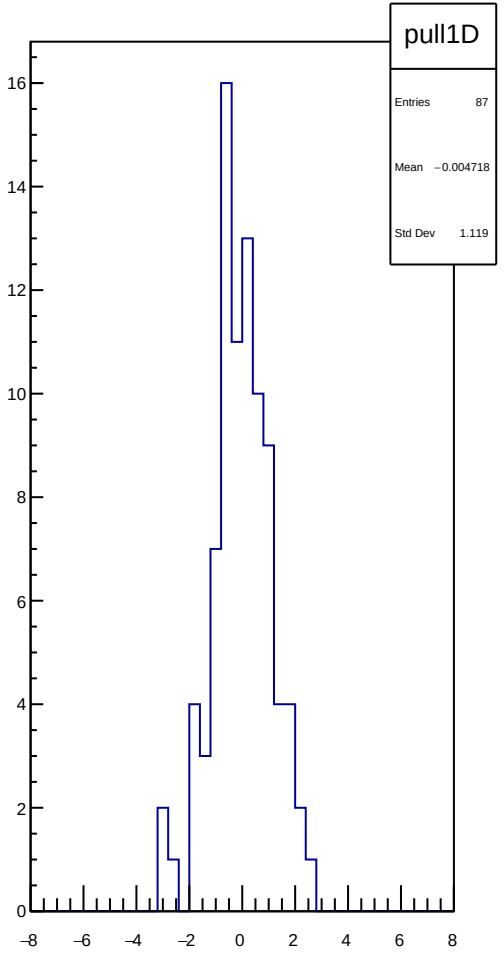

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 7838 / 86
p0 2645 ± 1.998
3100
3000
2900
2800
2700
2600
2500
2400
2300

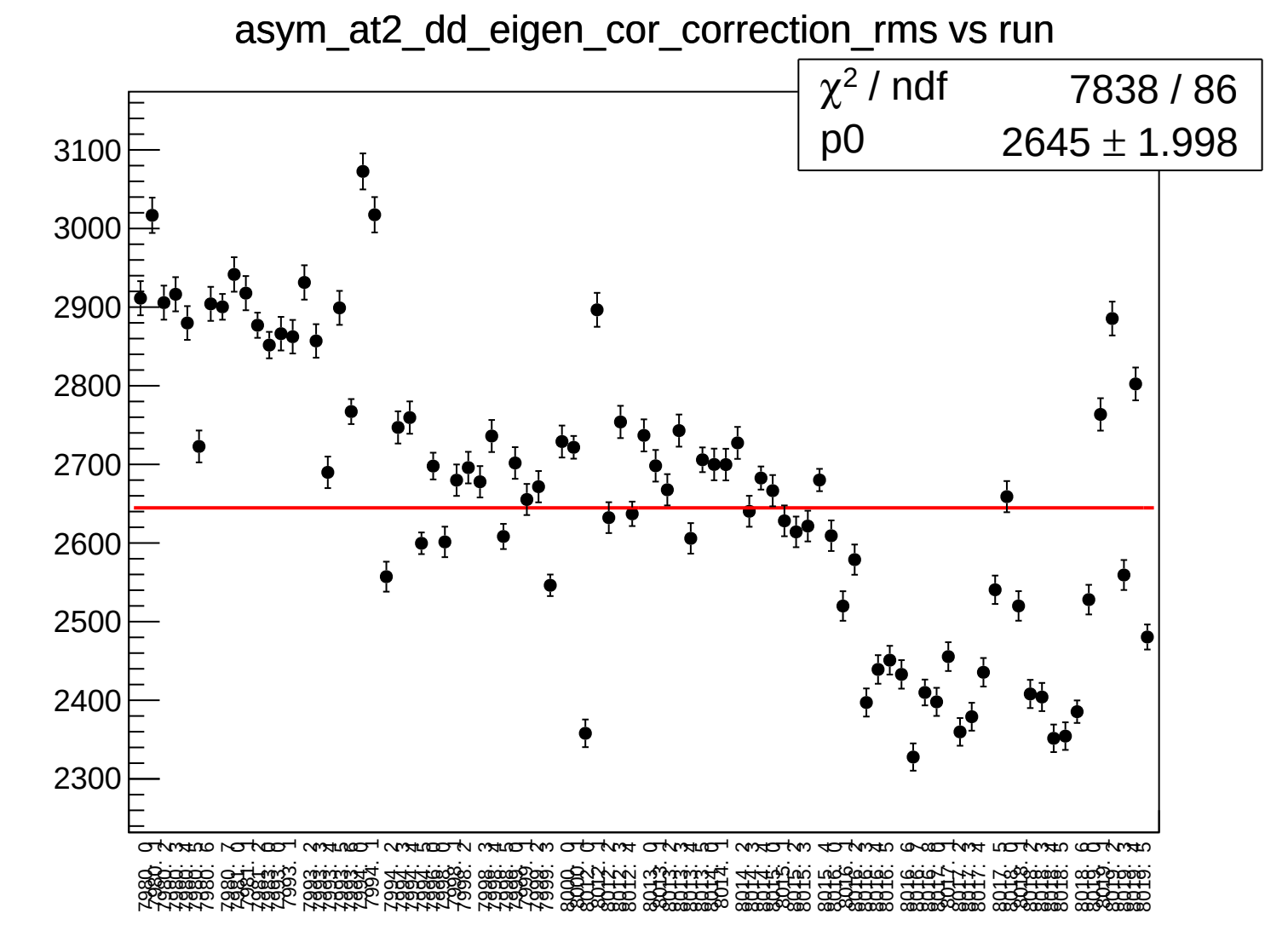

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 90.14 / 86
p0 1437 ± 1861
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 246
Std Dev 0
3
2
1
0
−1
−2

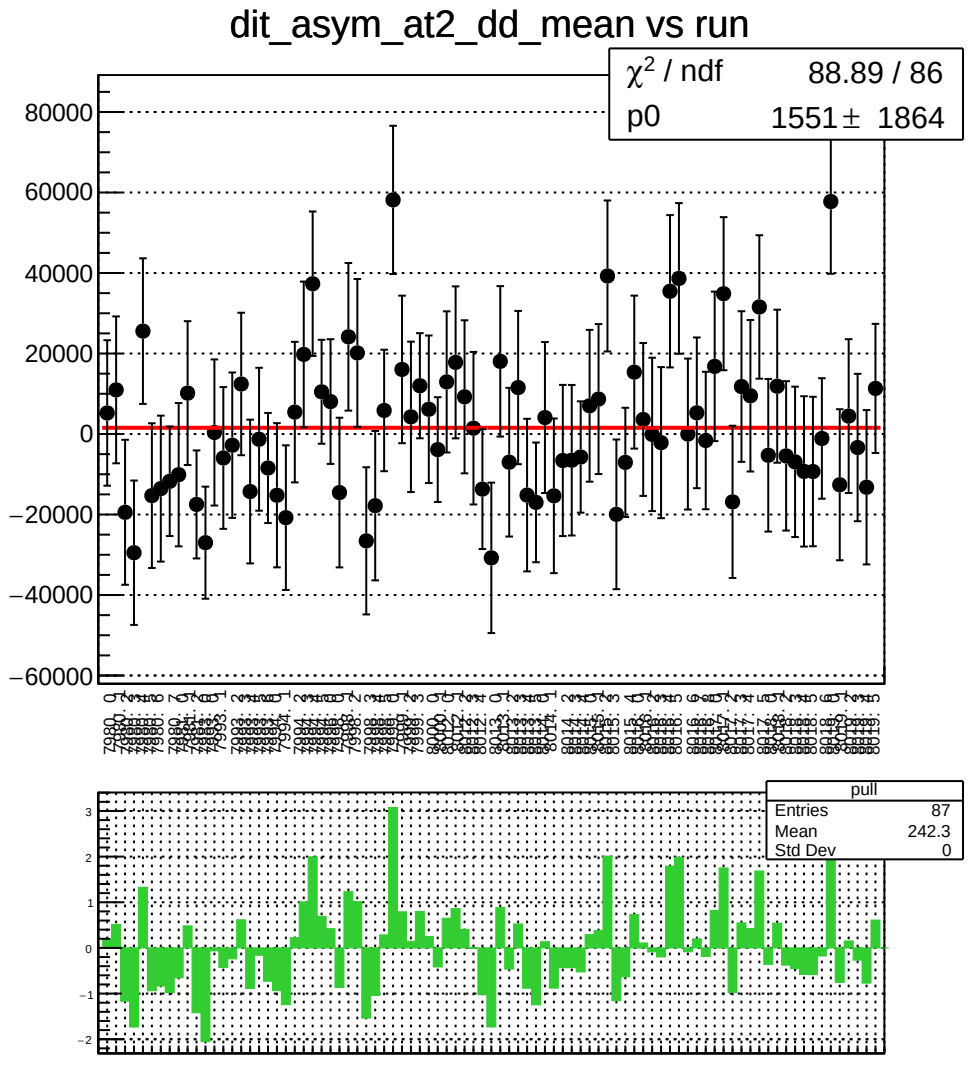

pull1D
Entries 87
Mean 0.02512
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

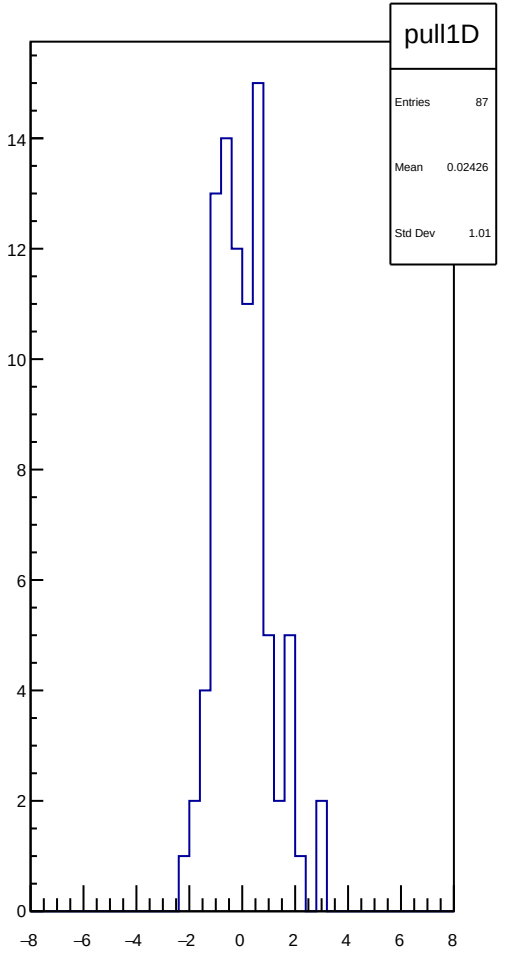

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 1139 / 86
p0 1745 ± 1.316
1850
1800
1750
1700
1650
1600

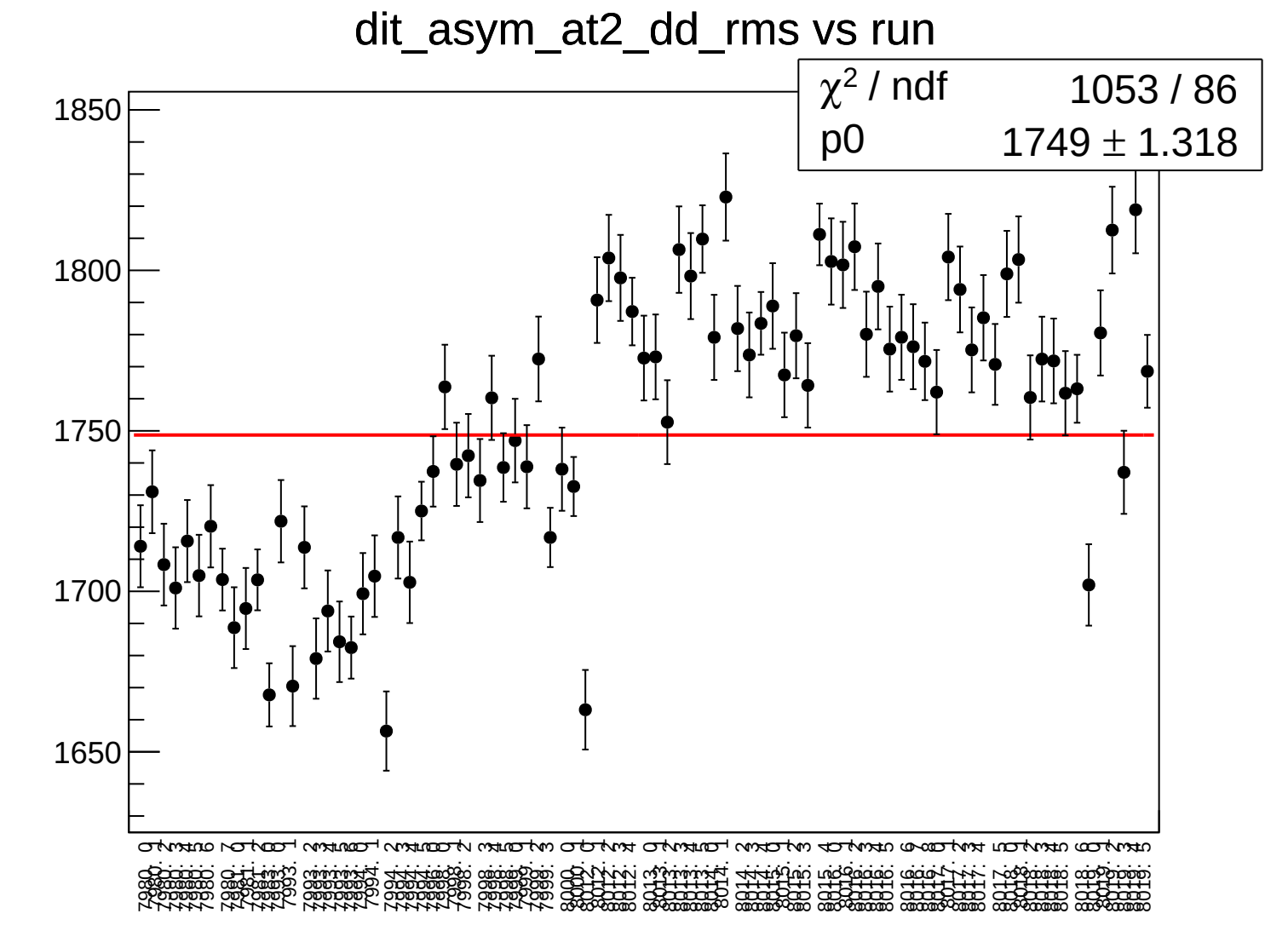

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 108.9 / 86
p0 −3712 ± 2825
100
50
0
−50
−100
pull
Entries 87
Mean 246.4
Std Dev 0
3
2
1
0
−1
−2
−3

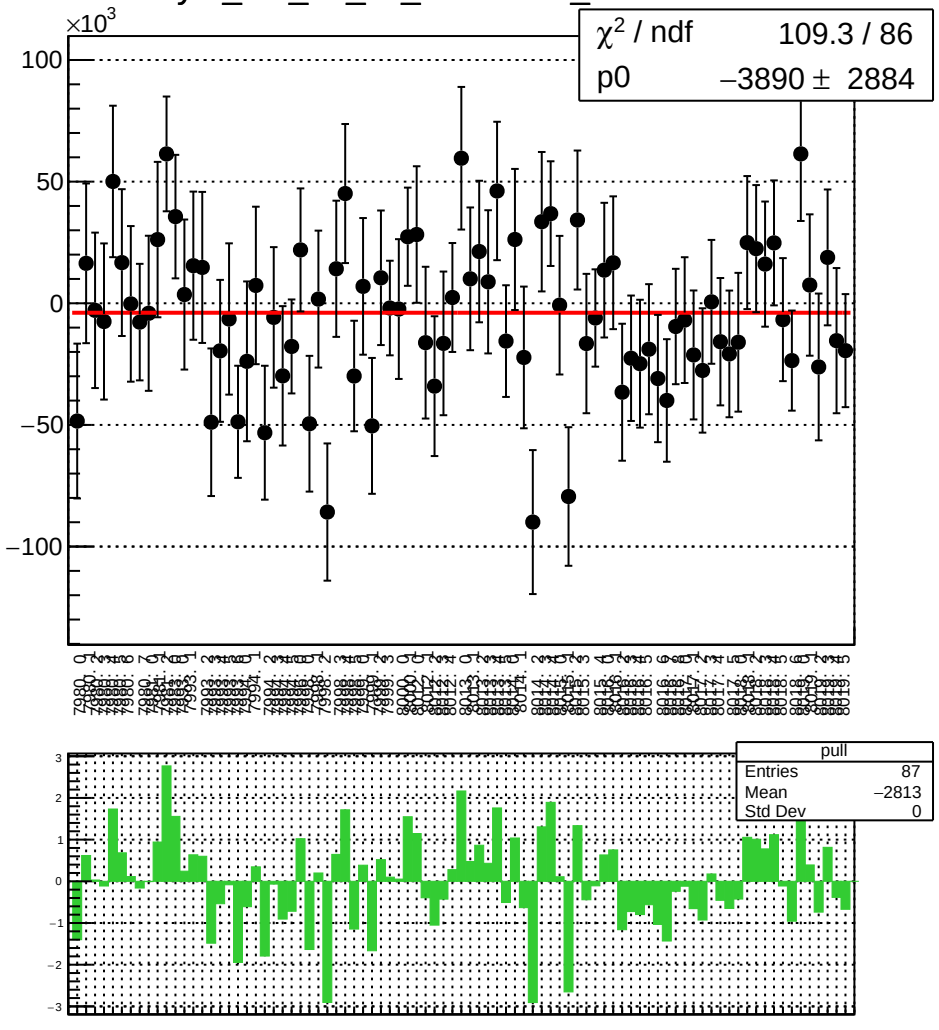

pull1D
Entries 87
Mean −0.004718
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

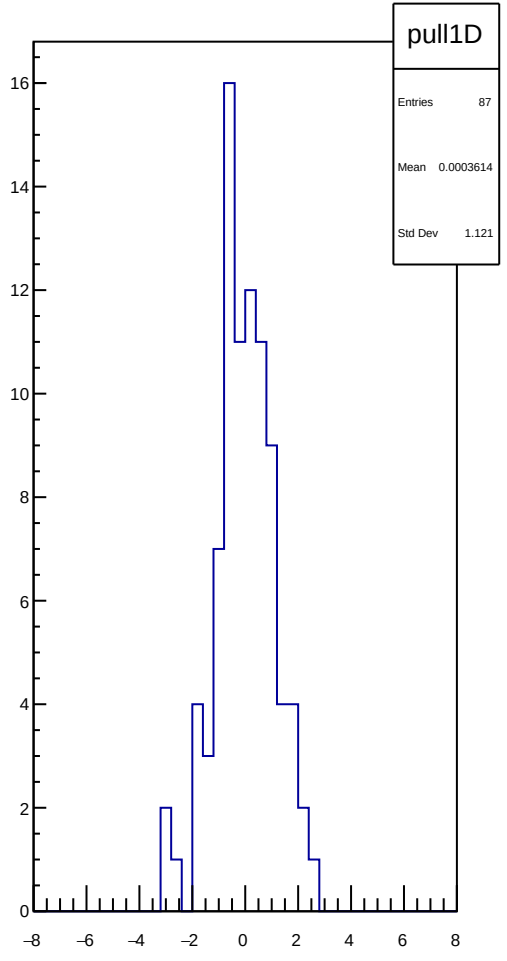

asym_at2_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 7838 / 86
p0 2645 ± 1.998
3100
3000
2900
2800
2700
2600
2500
2400
2300

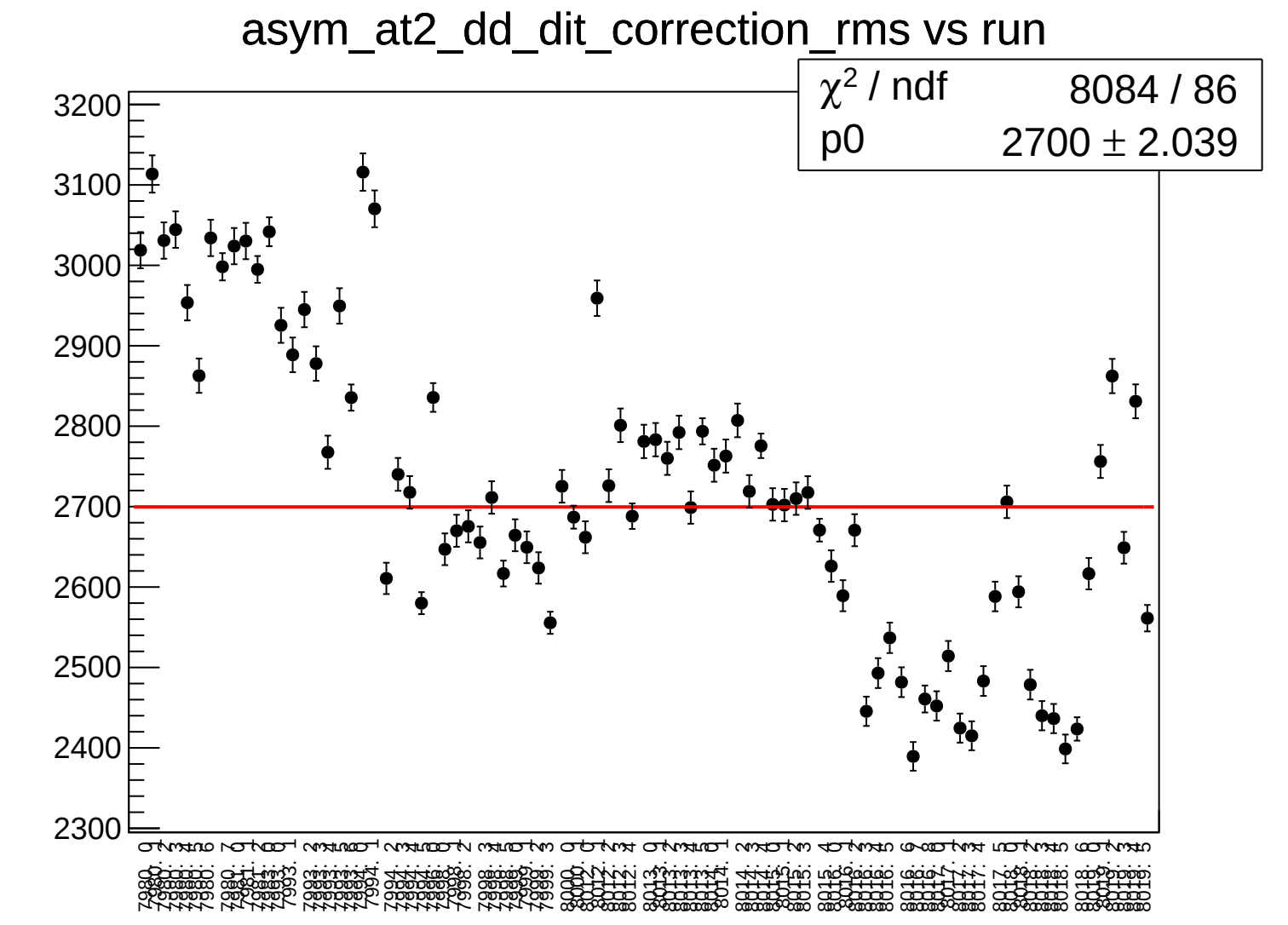

dit_asym_at2_dd_mean vs run
χ² / ndf 88.89 / 86
p0 1551 ± 1864
pull
Entries 87
Mean 242.3
Std Dev 0

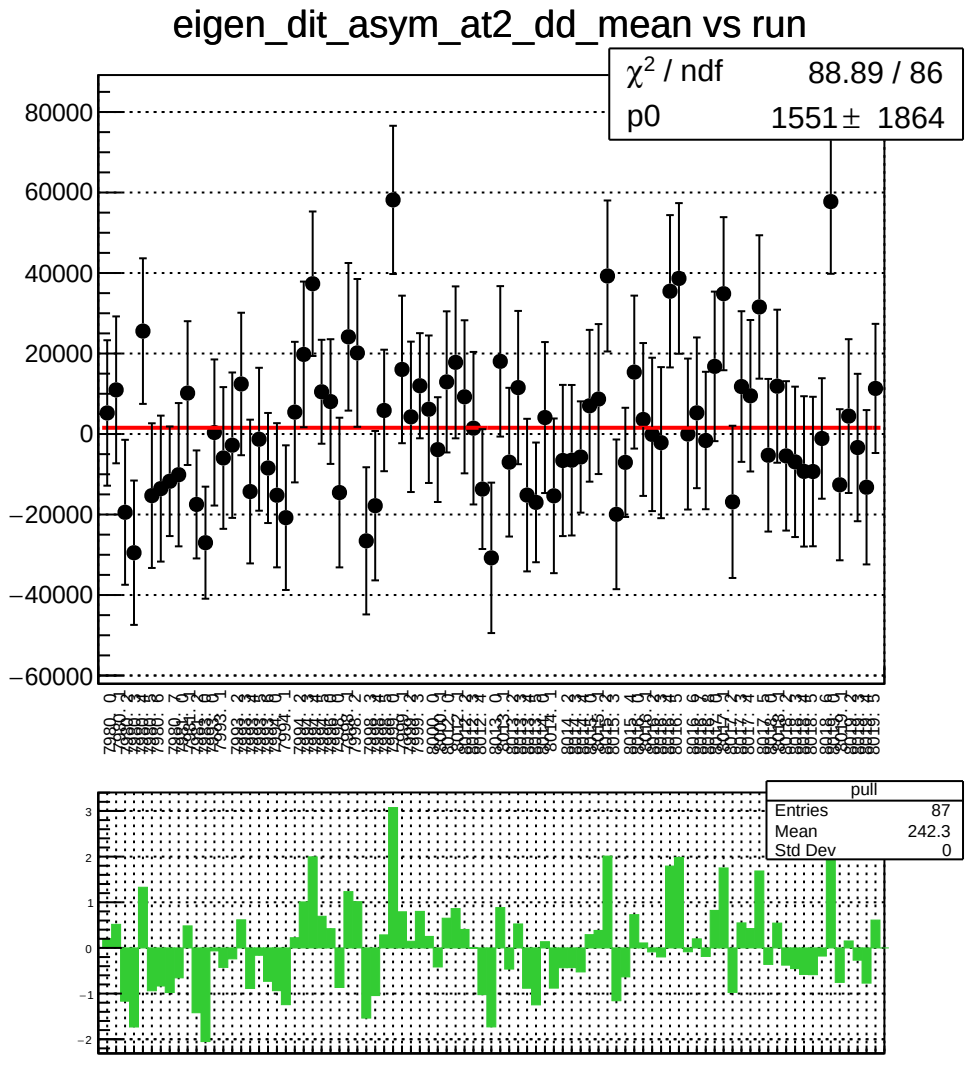

pull1D
Entries 87
Mean 0.02426
Std Dev 1.01

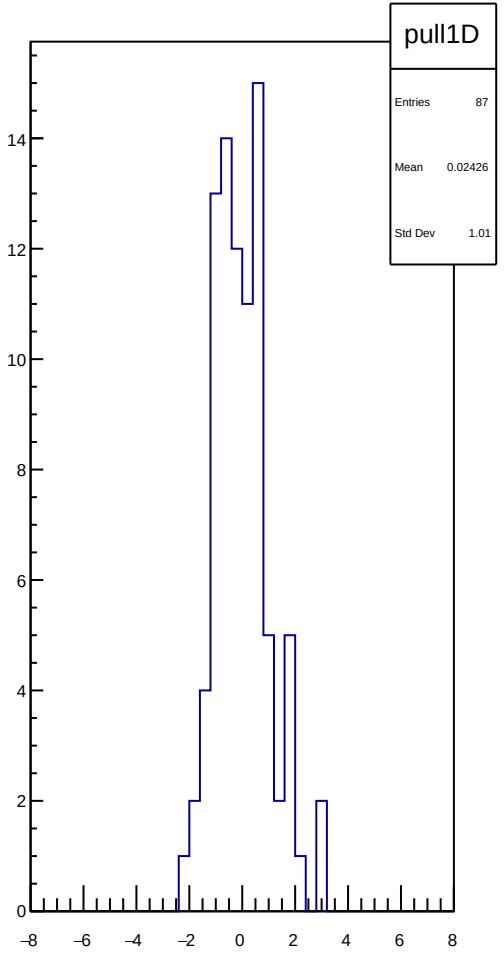

dit_asym_at2_dd_rms vs run
χ² / ndf 1053 / 86
p0 1749 ± 1.318
1850
1800
1750
1700
1650

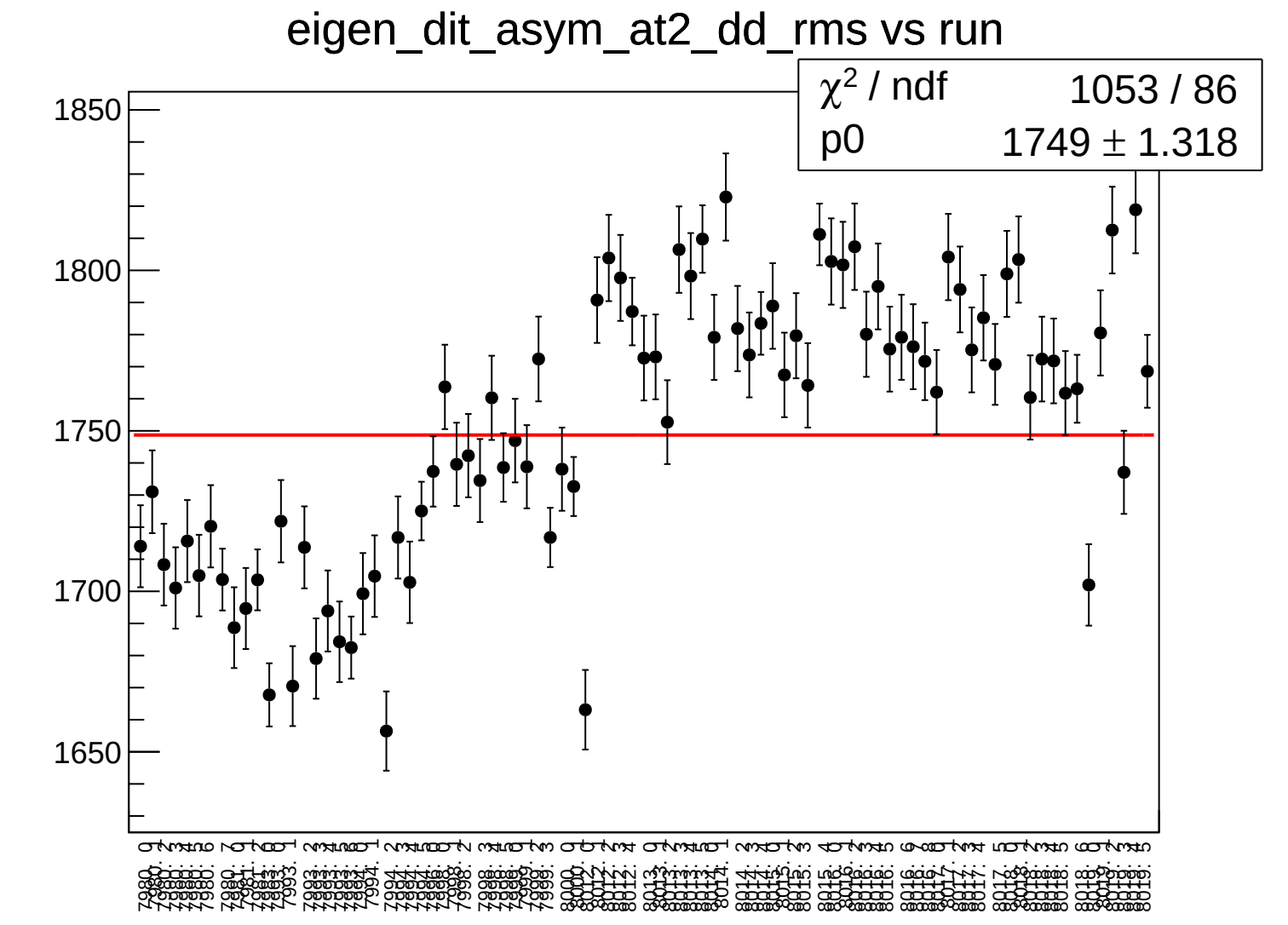

asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 109.3 / 86
p0 −3890 ± 2884
100
50
0
−50
−100
pull
Entries 87
Mean −2813
Std Dev 0
3
2
1
0
−1
−2
−3

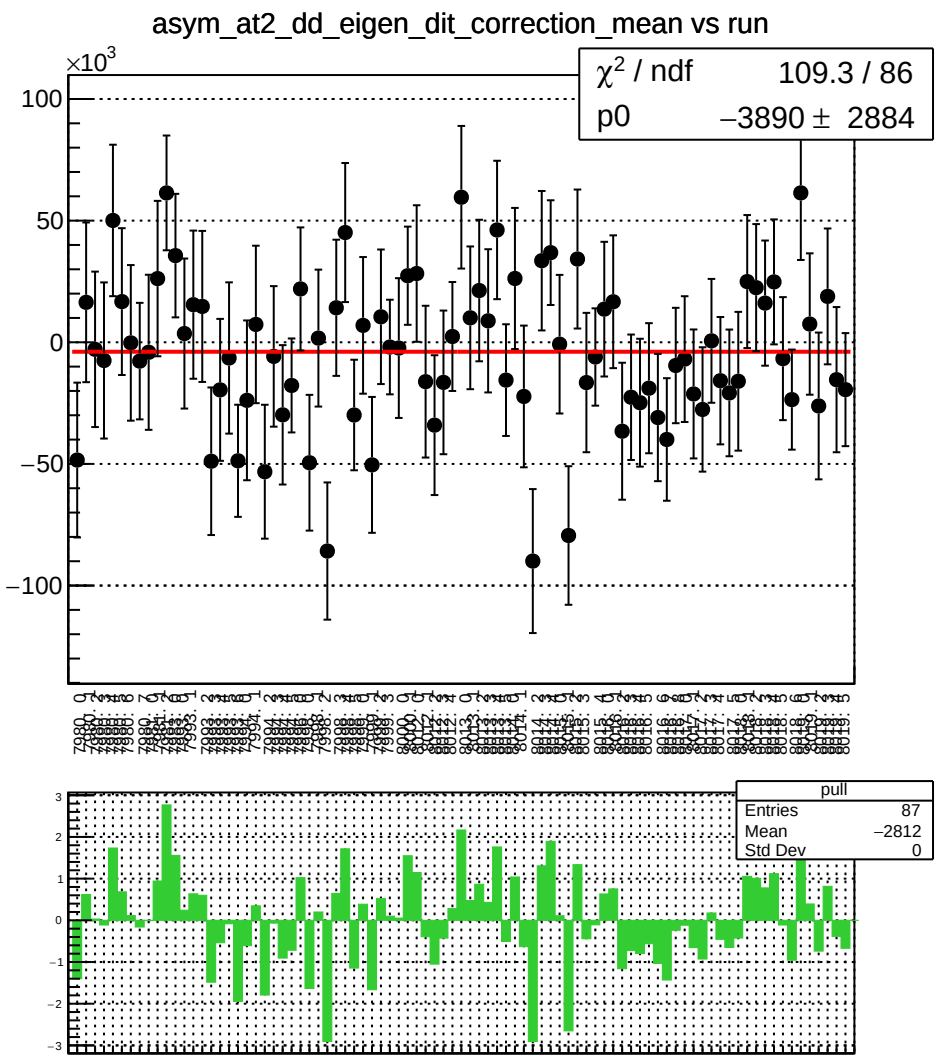

pull1D
Entries 87
Mean 0.0003614
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

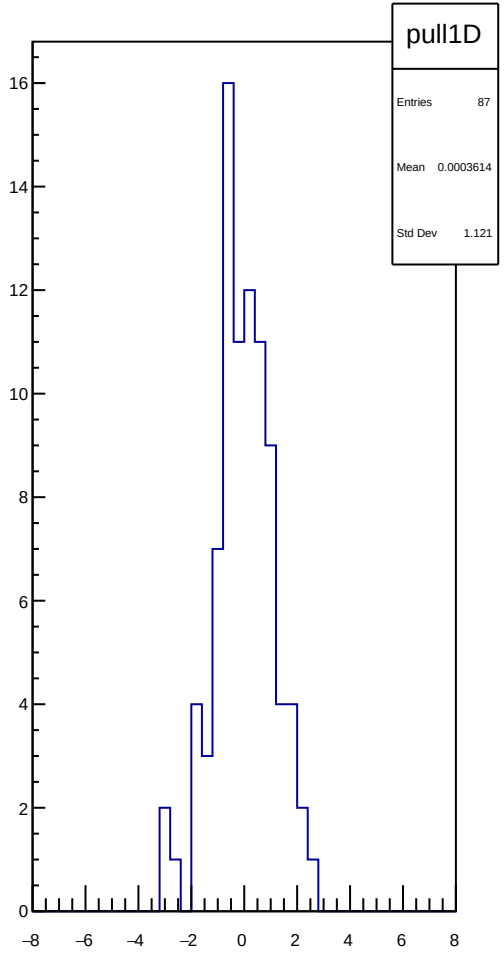

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 8084 / 86
p0 2700 ± 2.039
3200
3100
3000
2900
2800
2700
2600
2500
2400
2300

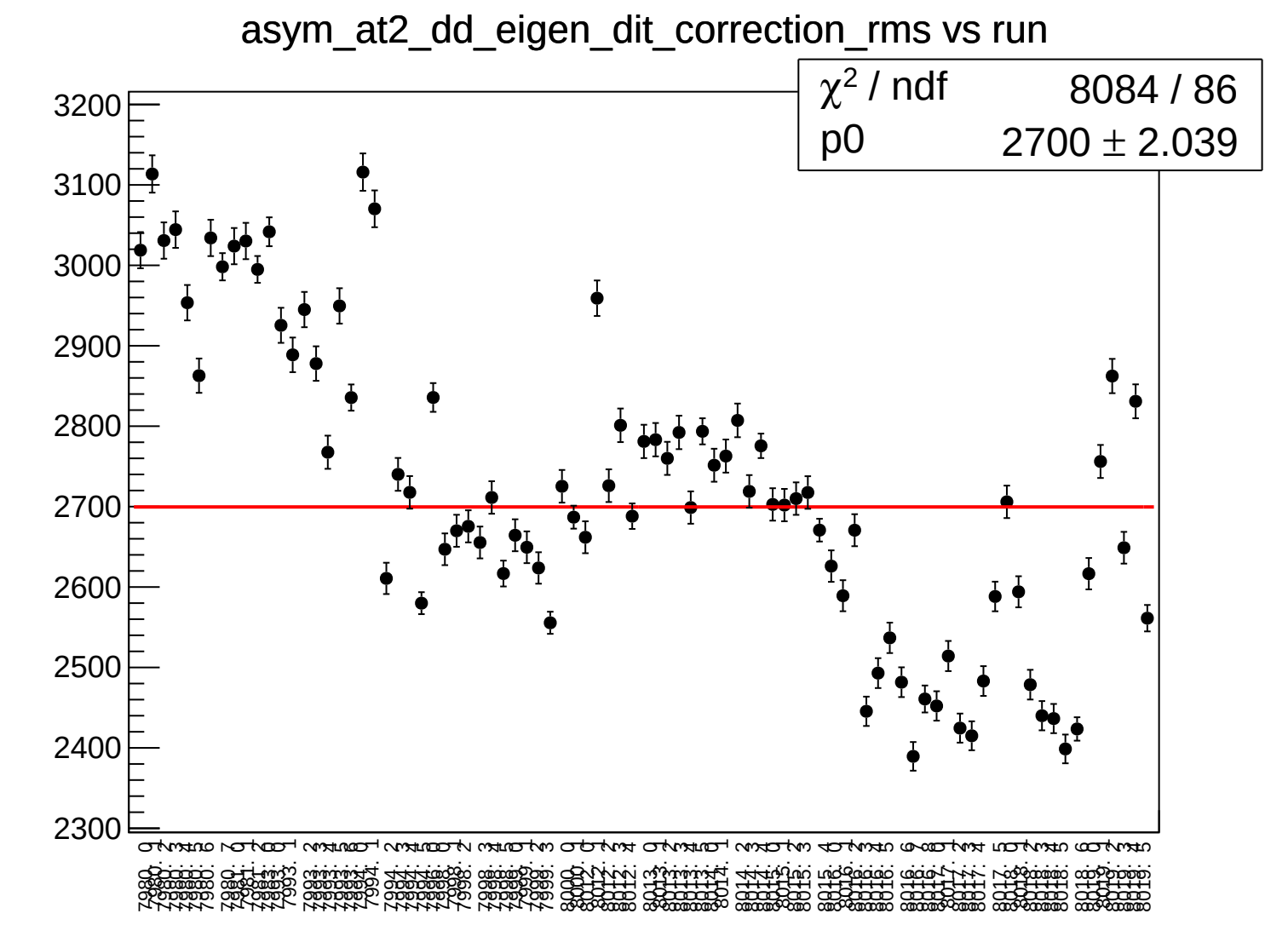

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 88.89 / 86
p0 1551 ± 1864
pull
Entries 87
Mean 242.3
Std Dev 0

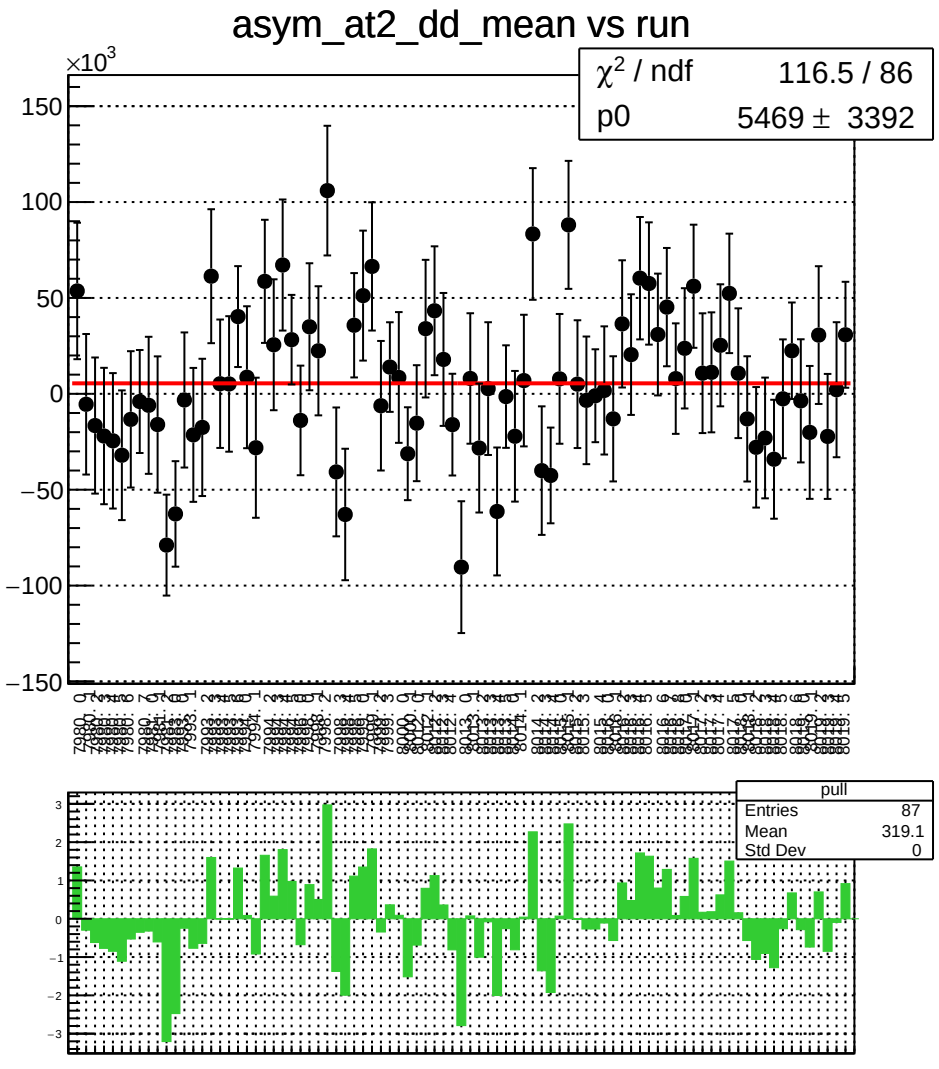

pull1D
Entries 87
Mean 0.02426
Std Dev 1.01

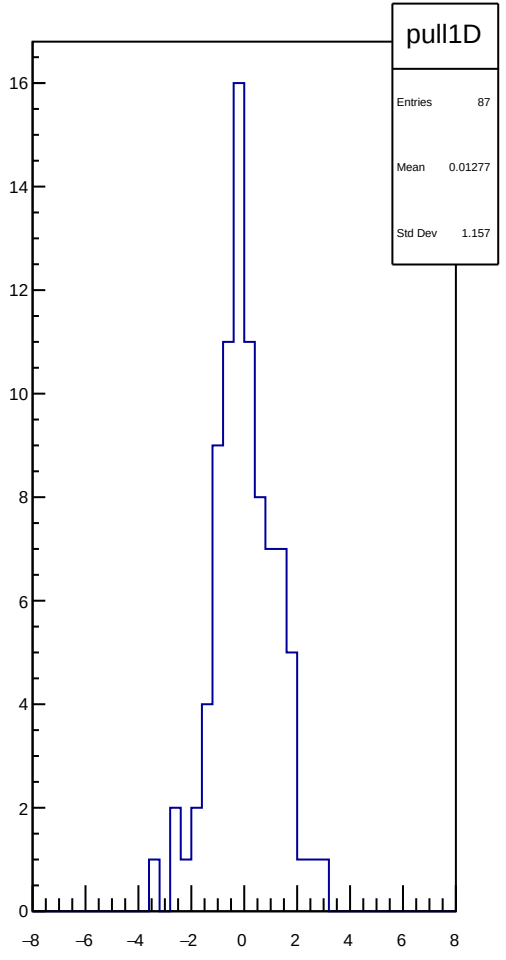

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 1053 / 86
p0 1749 ± 1.318
1850
1800
1750
1700
1650

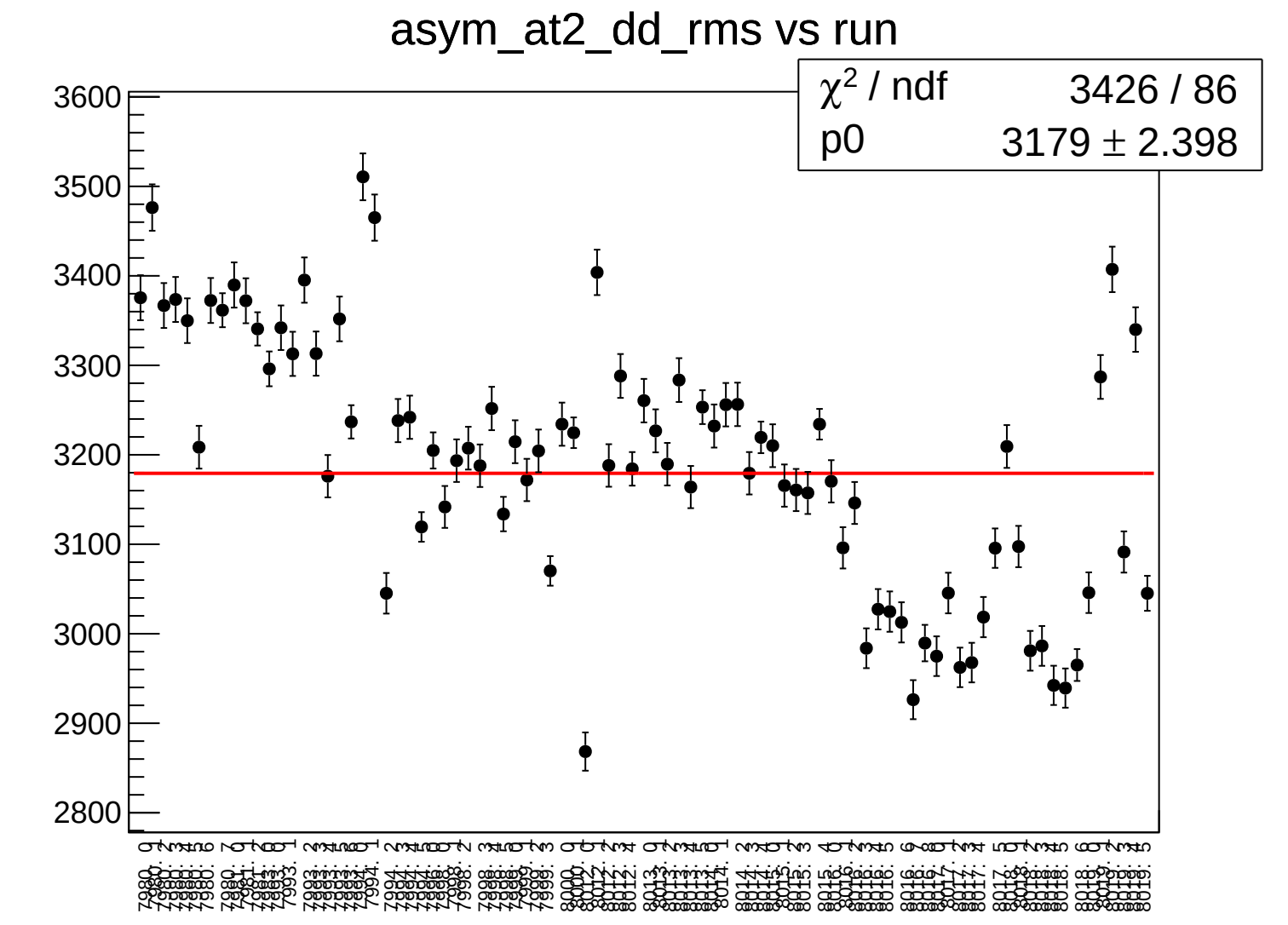

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 109.3 / 86
p0 −3890 ± 2884
100
50
0
−50
−100
pull
Entries 87
Mean −2812
Std Dev 0
3
2
1
0
−1
−2
−3

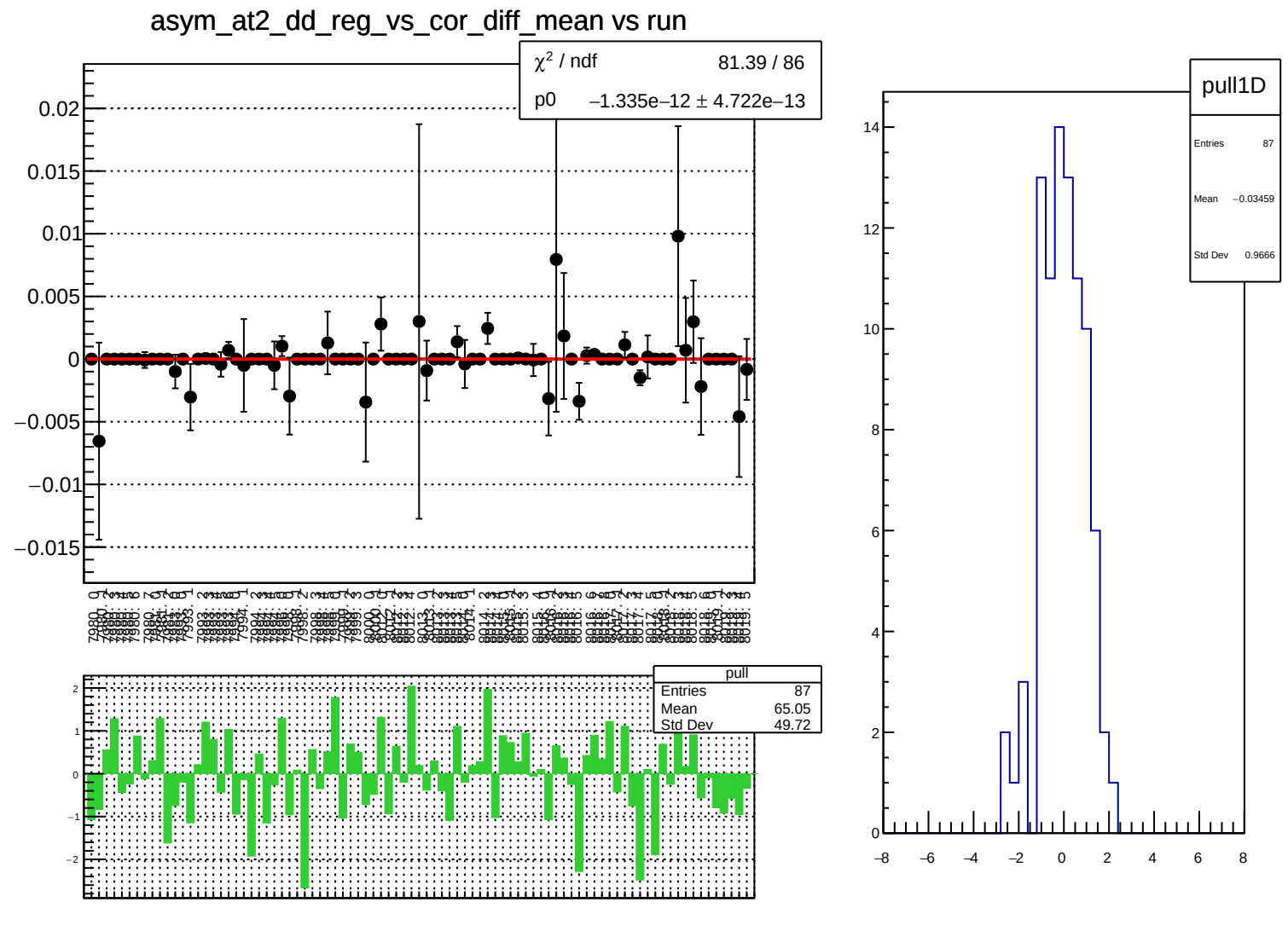

pull1D
Entries 87
Mean 0.0003614
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

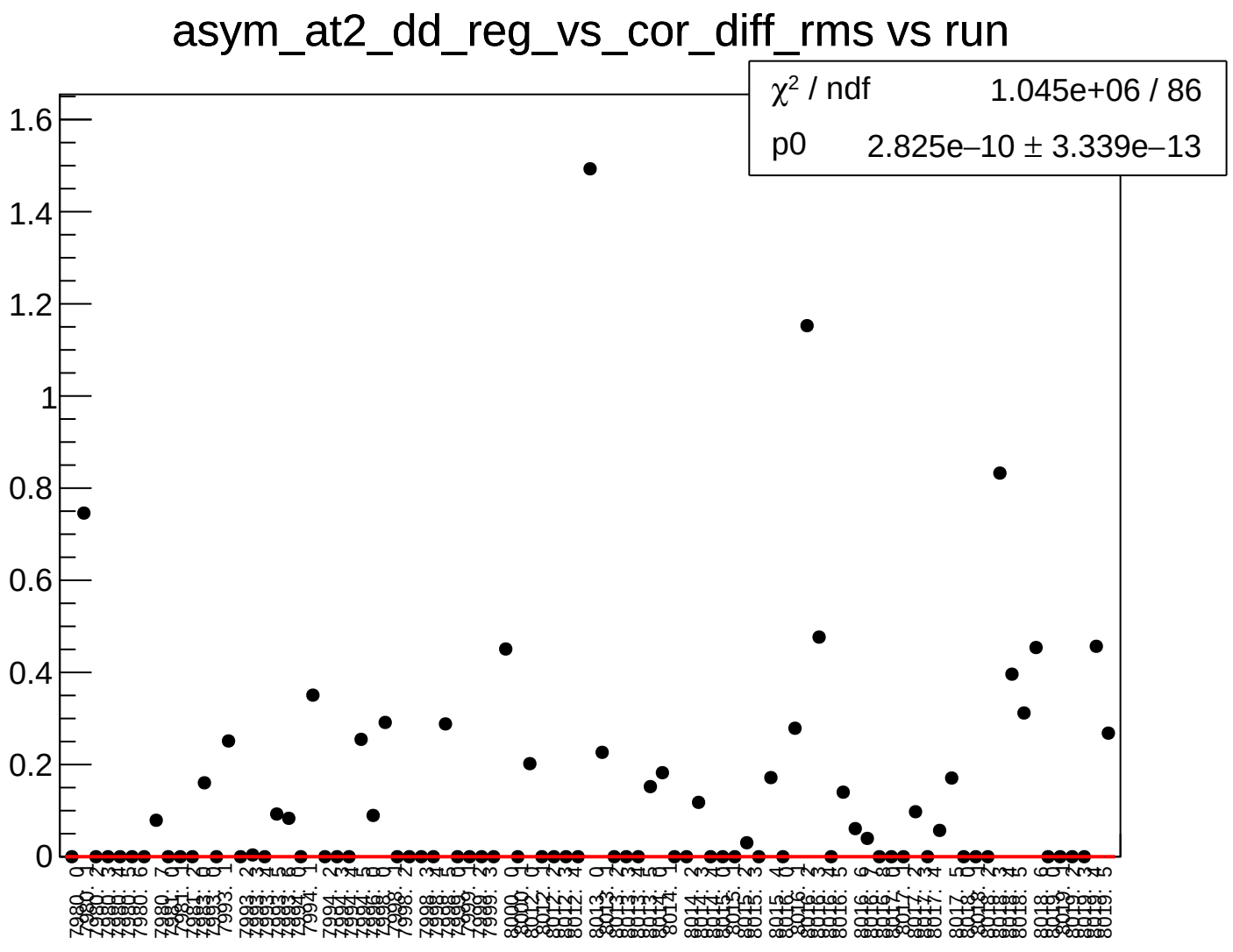

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 8084 / 86
p0 2700 ± 2.039
3200
3100
3000
2900
2800
2700
2600
2500
2400
2300

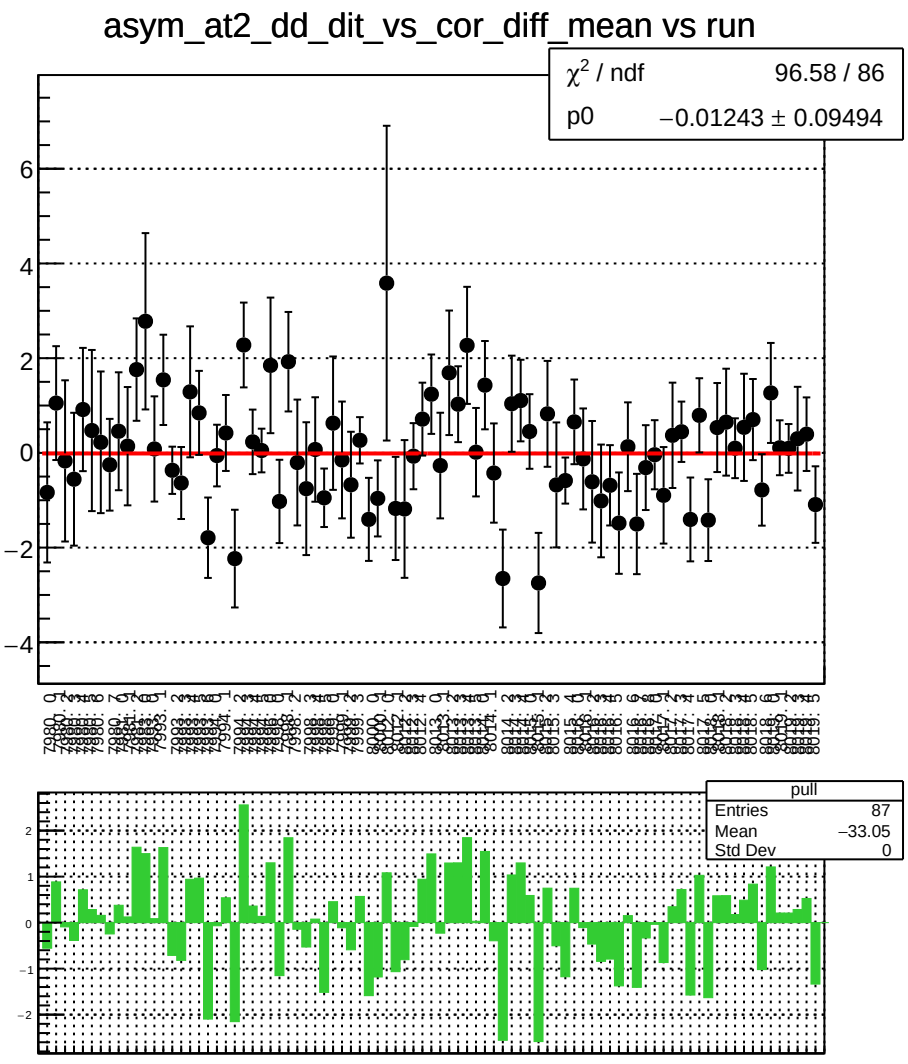

asym_at2_dd_mean vs run
×10^3
χ² / ndf 116.5 / 86
p0 5469 ± 3392
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 319.1
Std Dev 0
3
2
1
0
−1
−2
−3

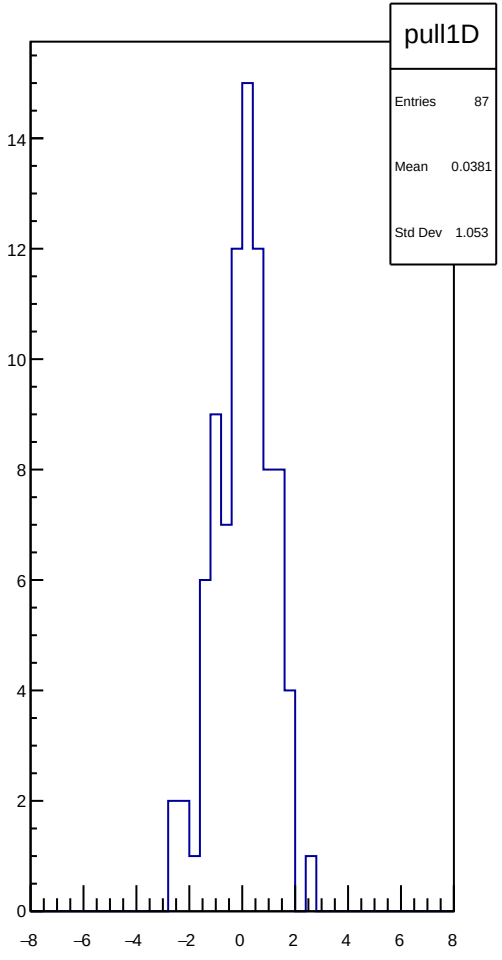

pull1D
Entries 87
Mean 0.01277
Std Dev 1.157
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

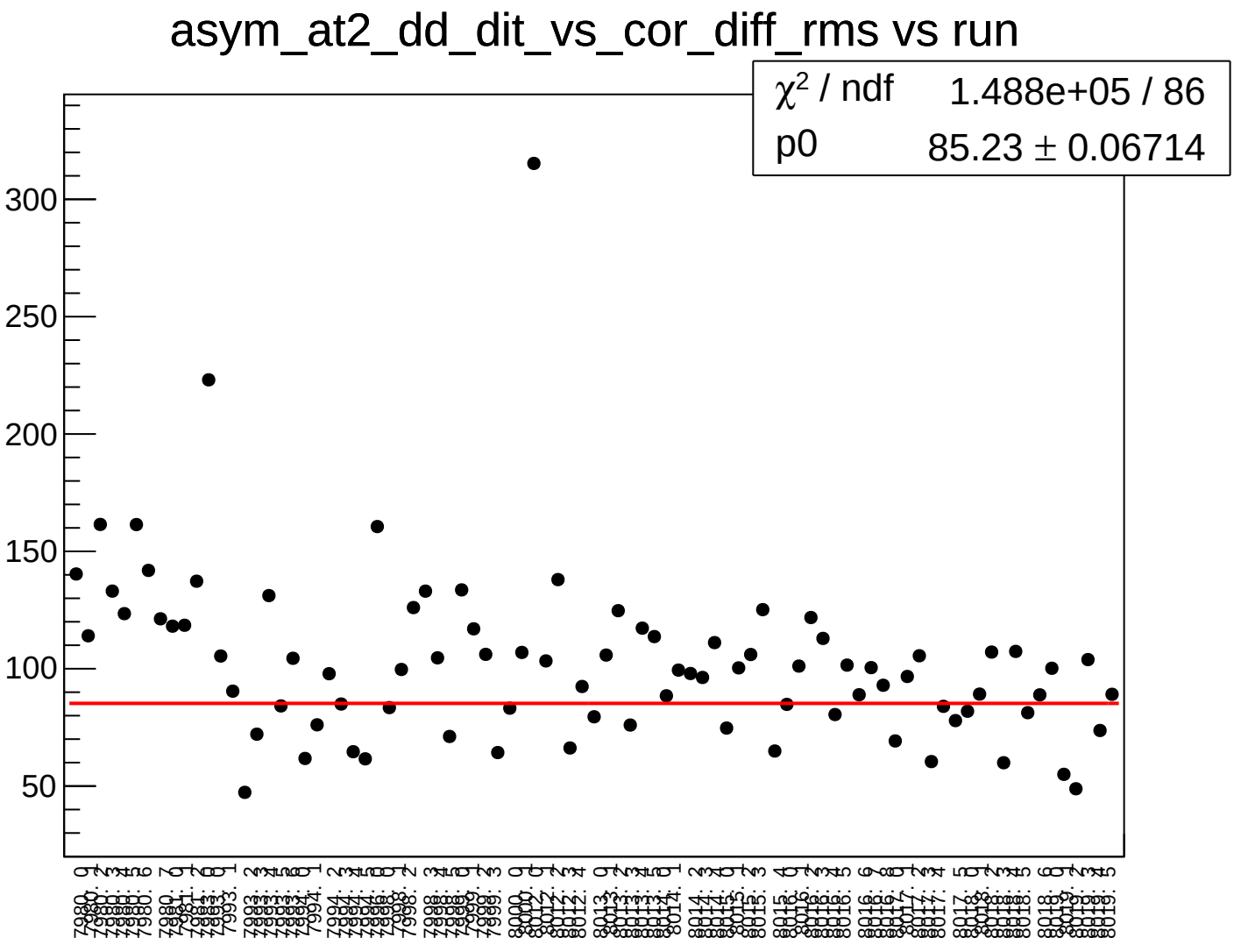

asym_at2_dd_rms vs run
χ² / ndf 3426 / 86
p0 3179 ± 2.398
3600
3500
3400
3300
3200
3100
3000
2900
2800

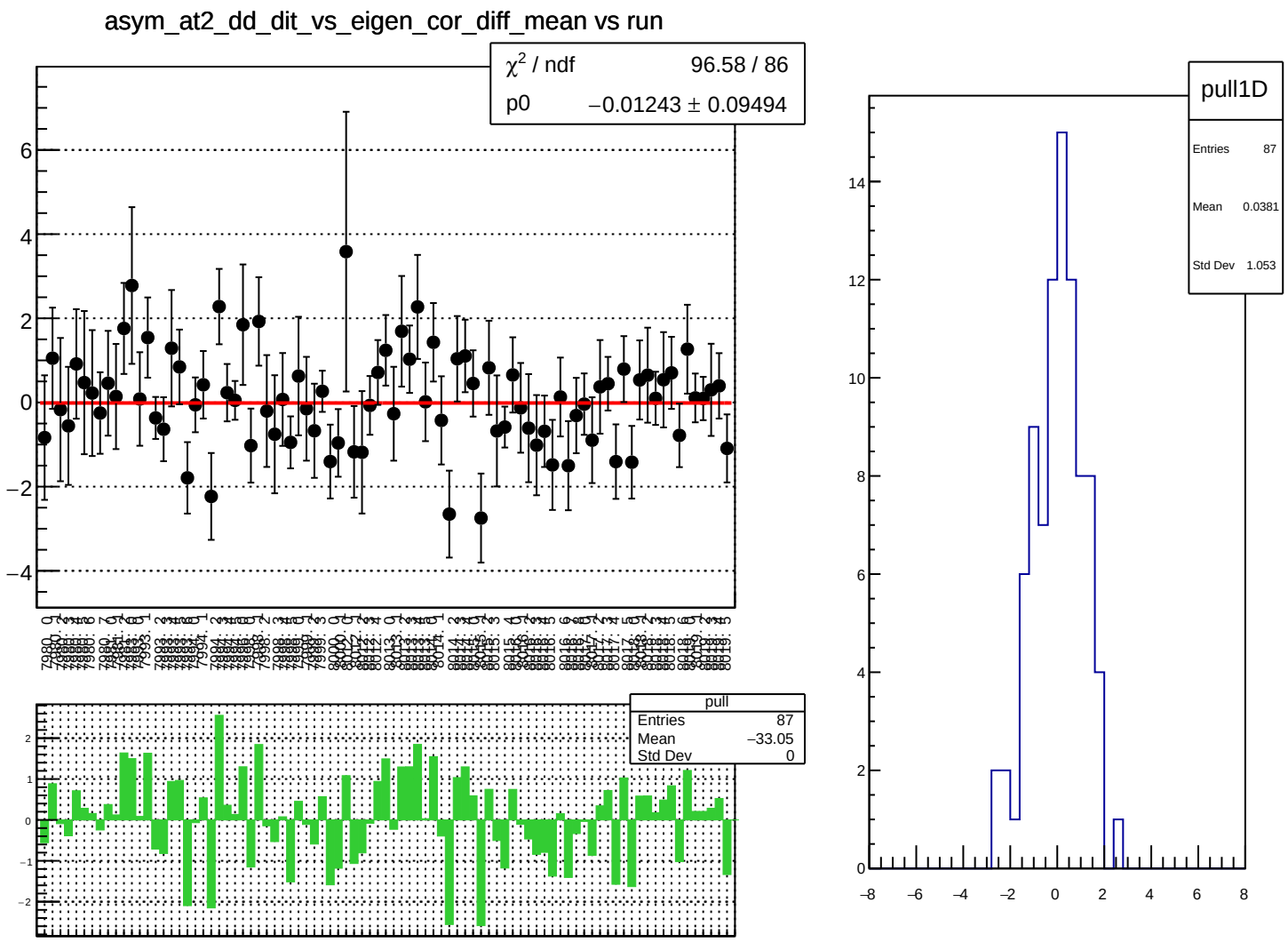

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.39 / 86
p0 −1.335e−12 ± 4.722e−13
pull
Entries 87
Mean 65.05
Std Dev 49.72
pull1D
Entries 87
Mean −0.03459
Std Dev 0.9666

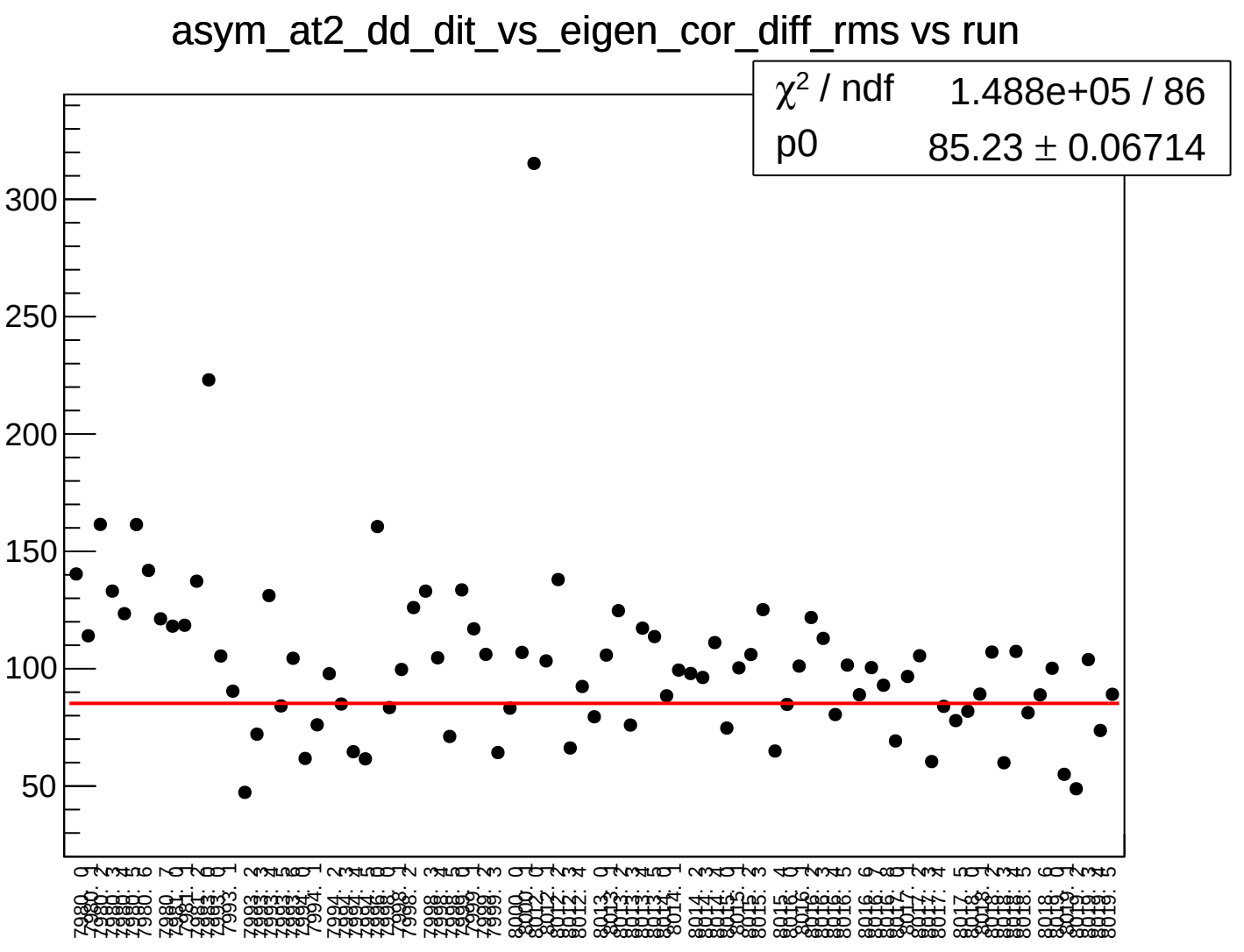

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 86
p0 2.825e−10 ± 3.339e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

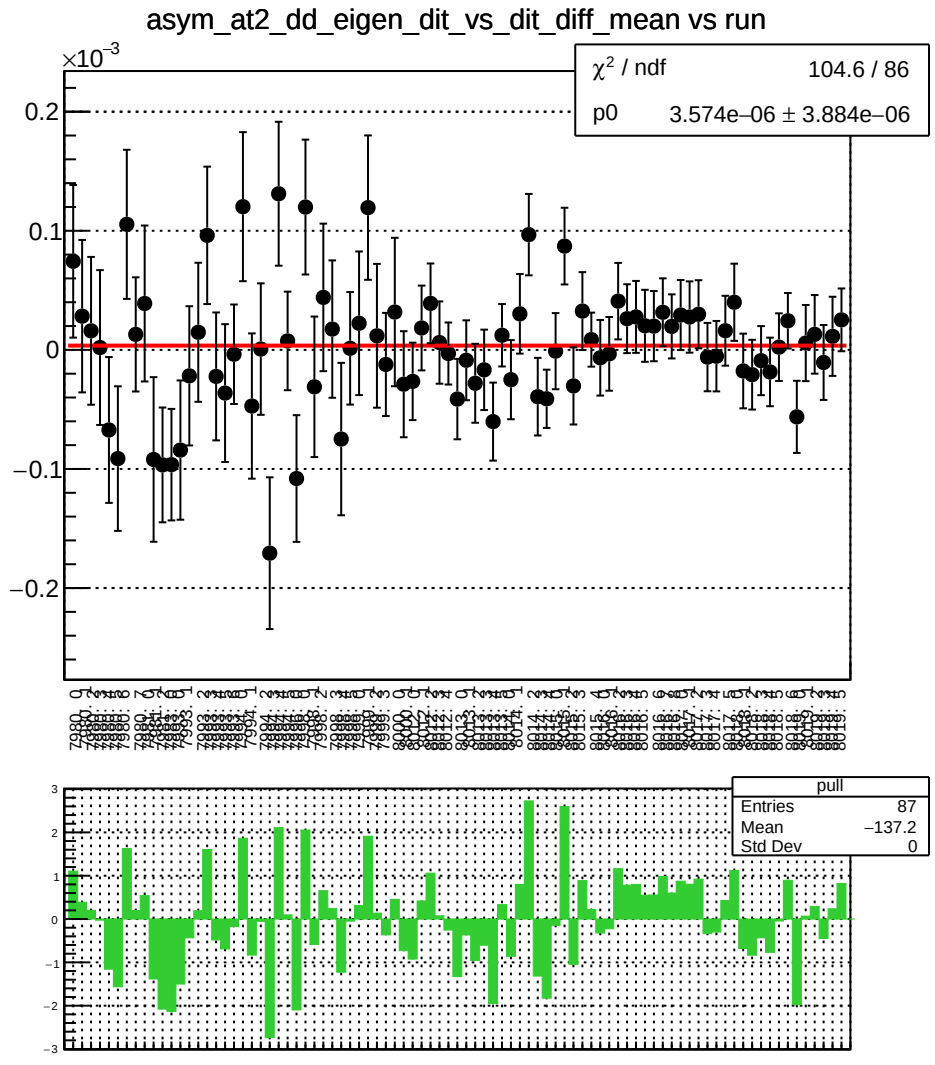

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.58 / 86
p0 −0.01243 ± 0.09494
pull
Entries 87
Mean −33.05
Std Dev 0

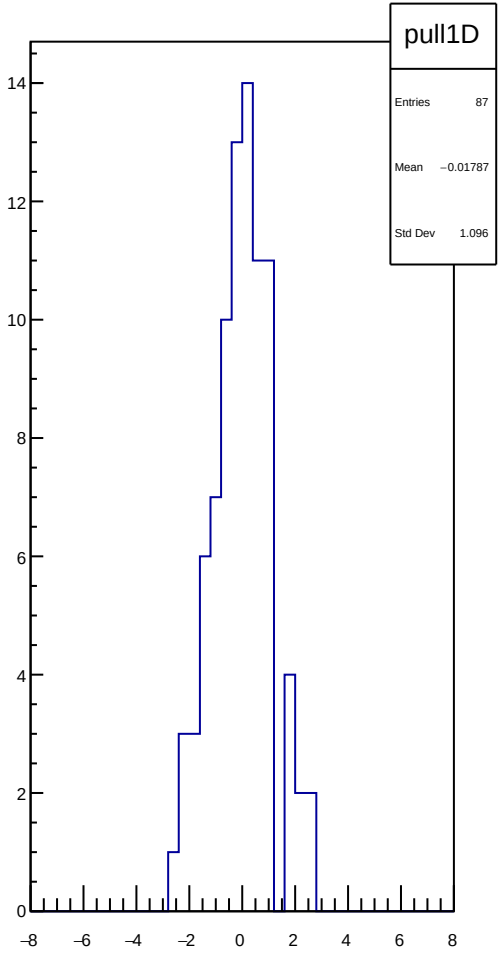

pull1D
Entries 87
Mean 0.0381
Std Dev 1.053

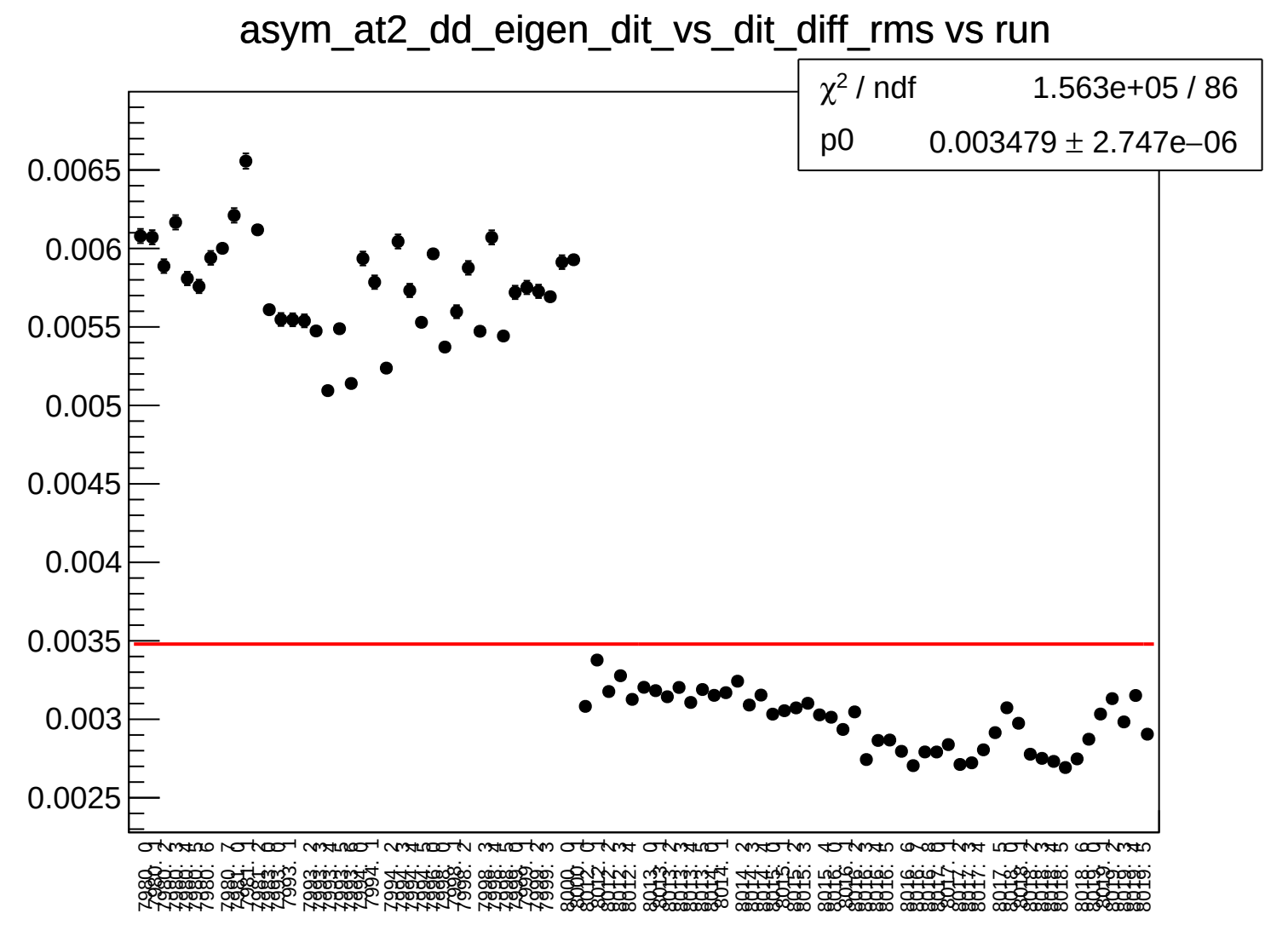

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.488e+05 / 86
p0 85.23 ± 0.06714
300
250
200
150
100
50

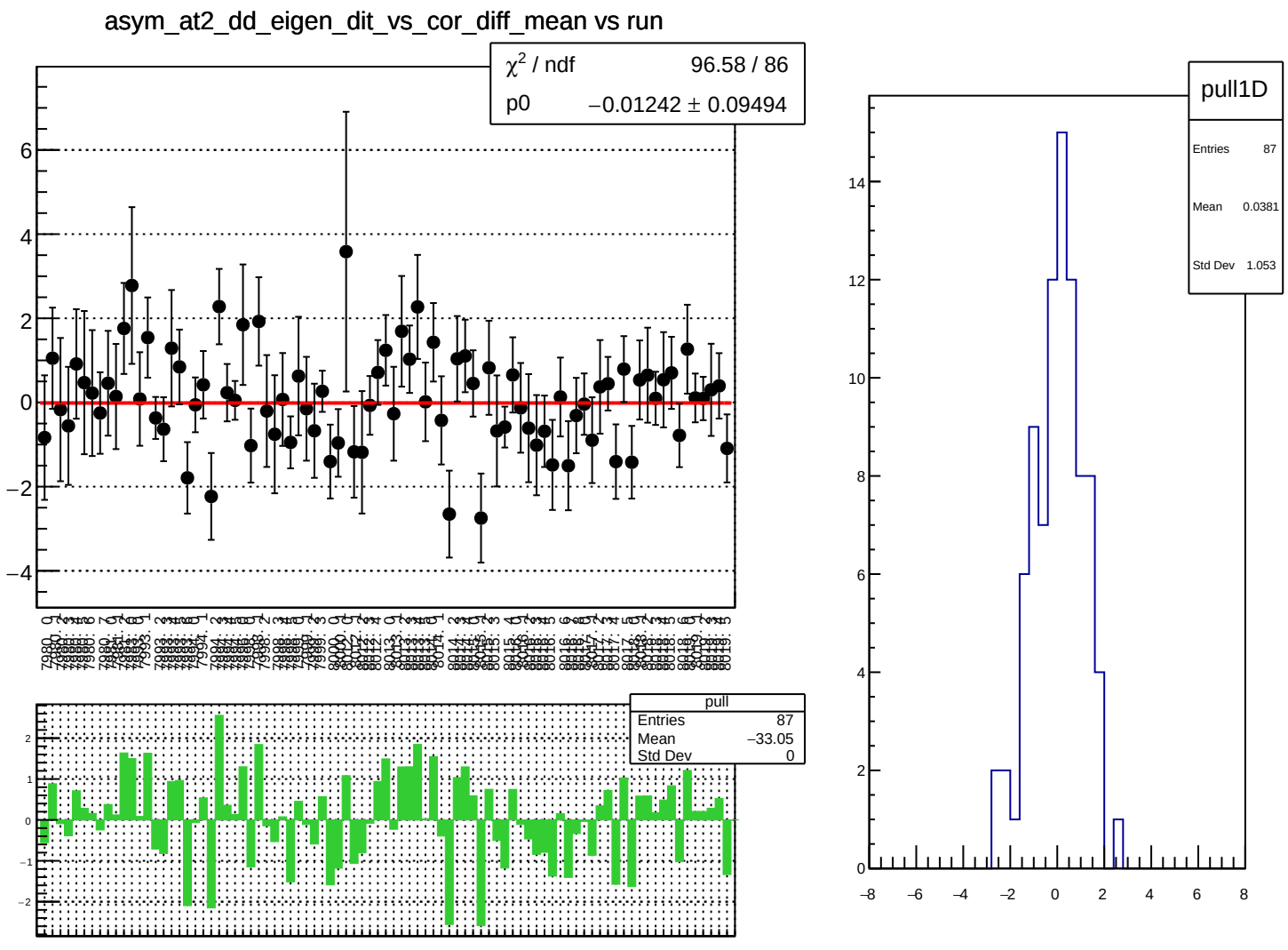

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.58 / 86
p0 −0.01243 ± 0.09494
pull
Entries 87
Mean −33.05
Std Dev 0
pull1D
Entries 87
Mean 0.0381
Std Dev 1.053

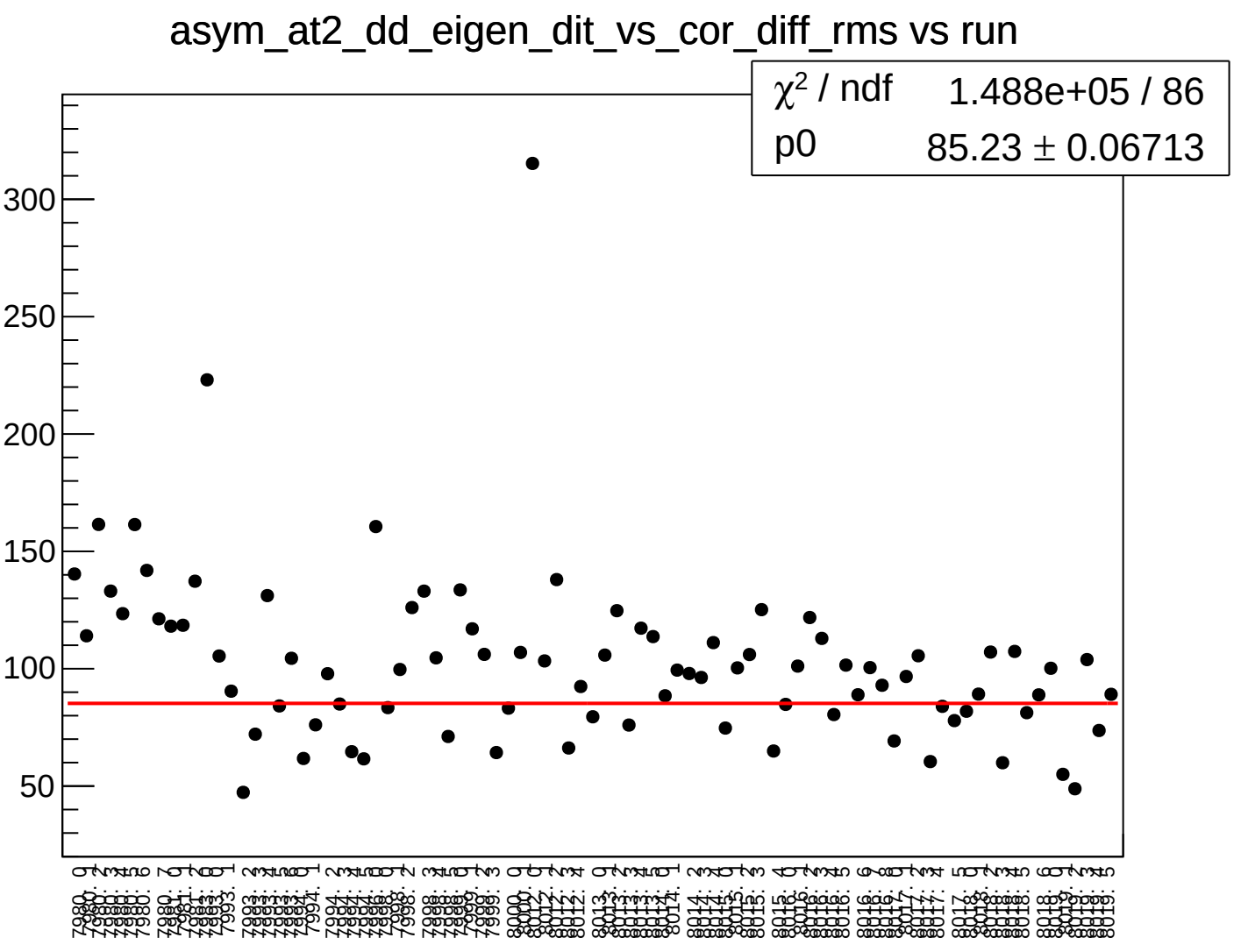

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.488e+05 / 86
p0 85.23 ± 0.06714
300
250
200
150
100
50

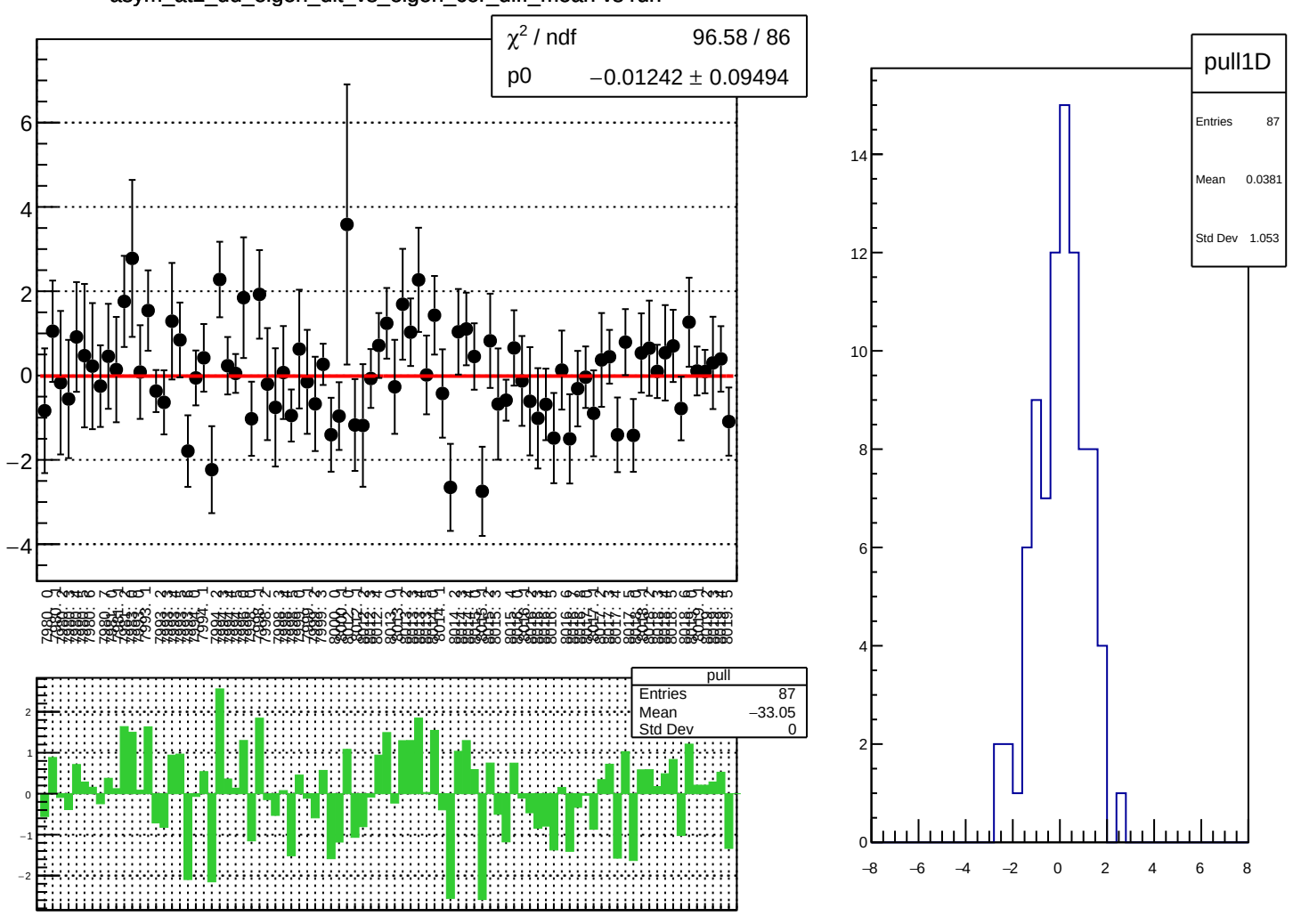

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.6 / 86
p0 3.574e−06 ± 3.884e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 87
Mean −137.2
Std Dev 0
3
2
1
0
−1
−2
−3

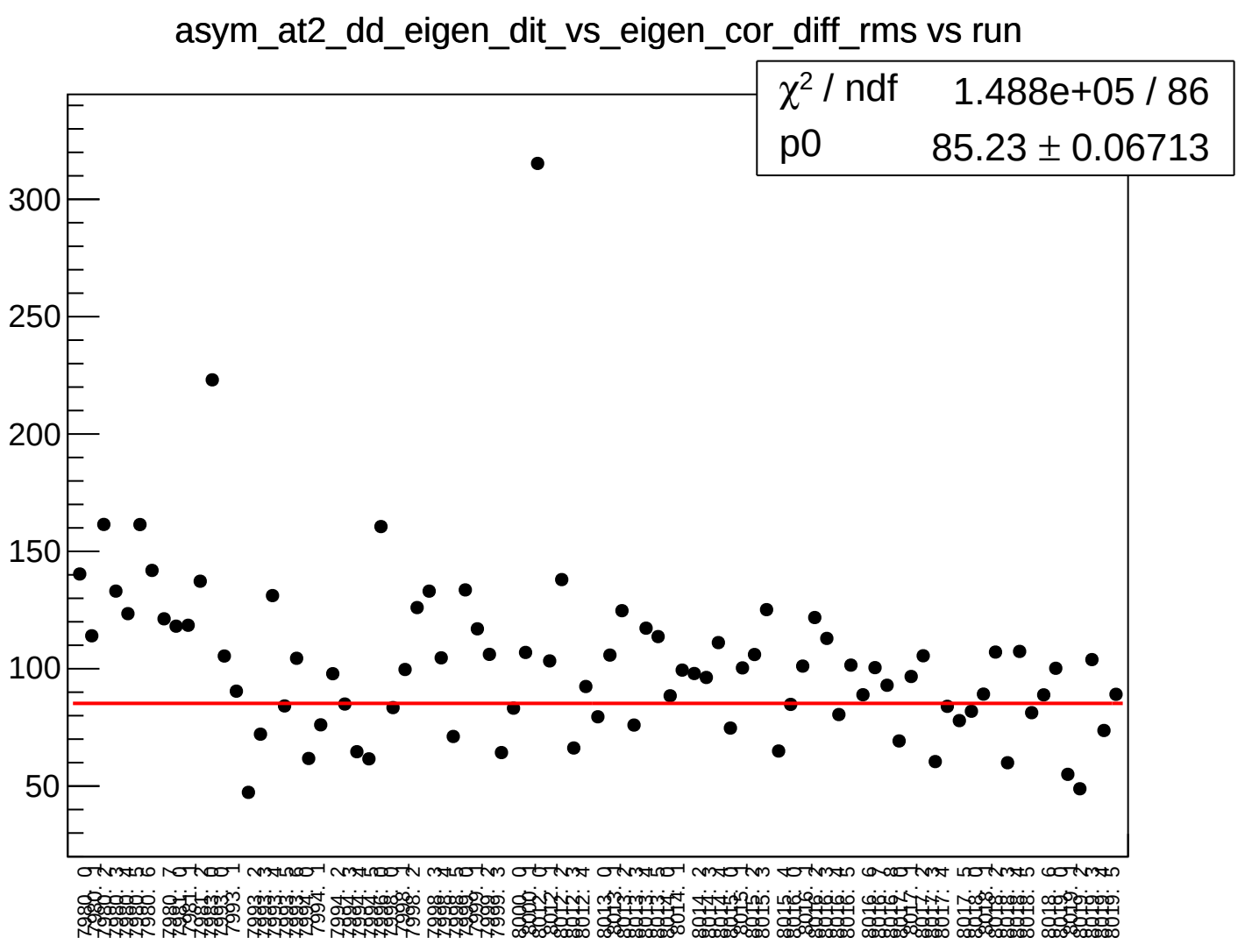

pull1D
Entries 87
Mean −0.01787
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

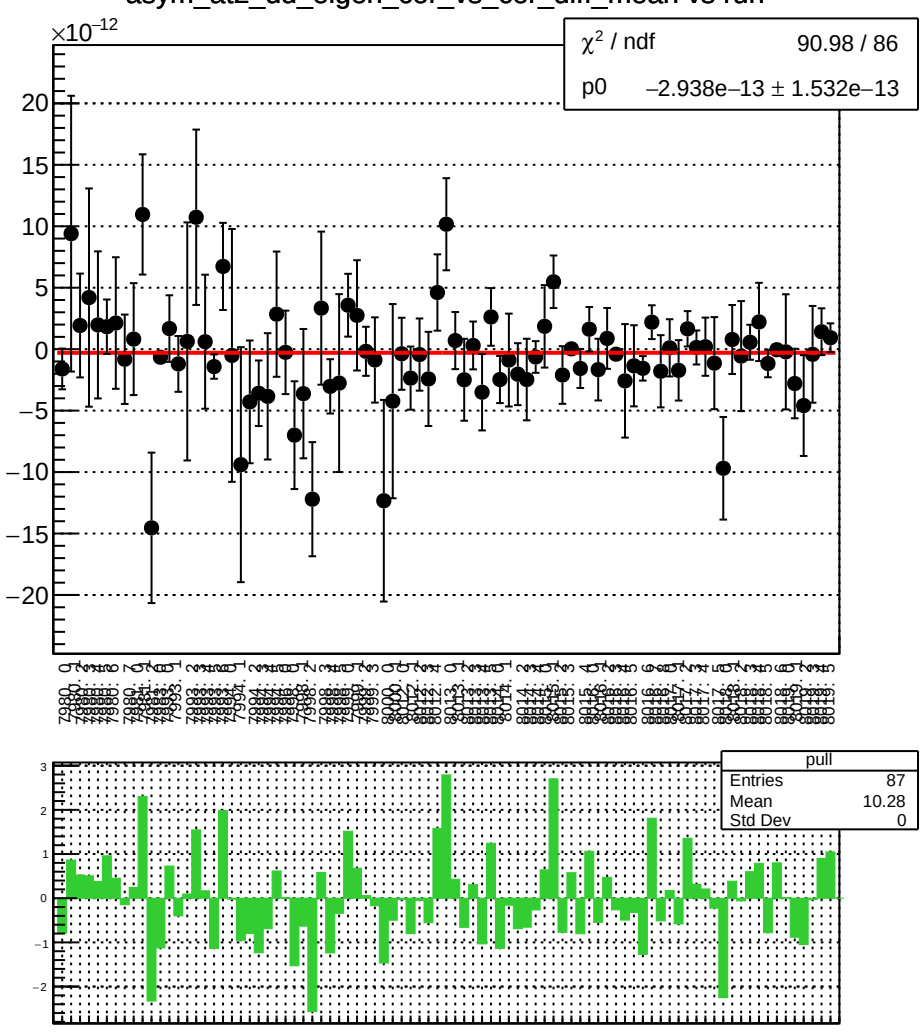

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.563e+05 / 86
p0 0.003479 ± 2.747e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

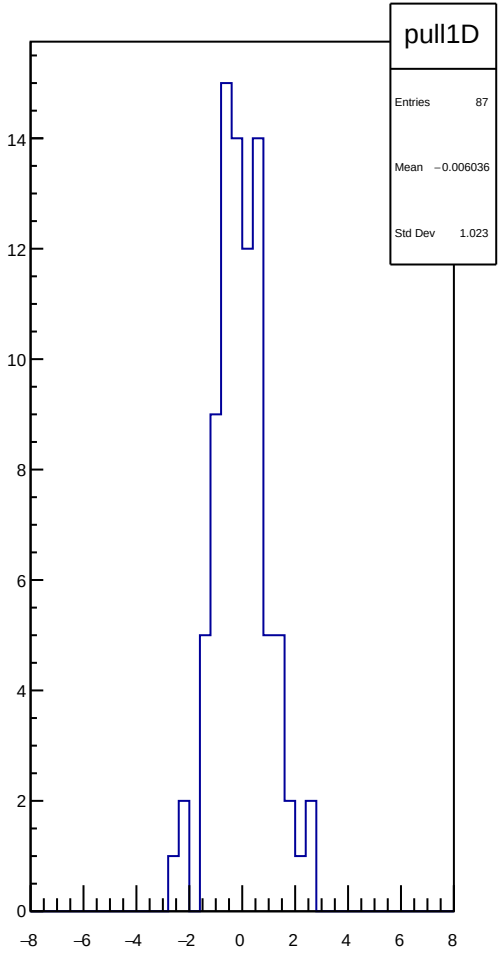

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.58 / 86
p0 −0.01242 ± 0.09494
pull
Entries 87
Mean −33.05
Std Dev 0
pull1D
Entries 87
Mean 0.0381
Std Dev 1.053

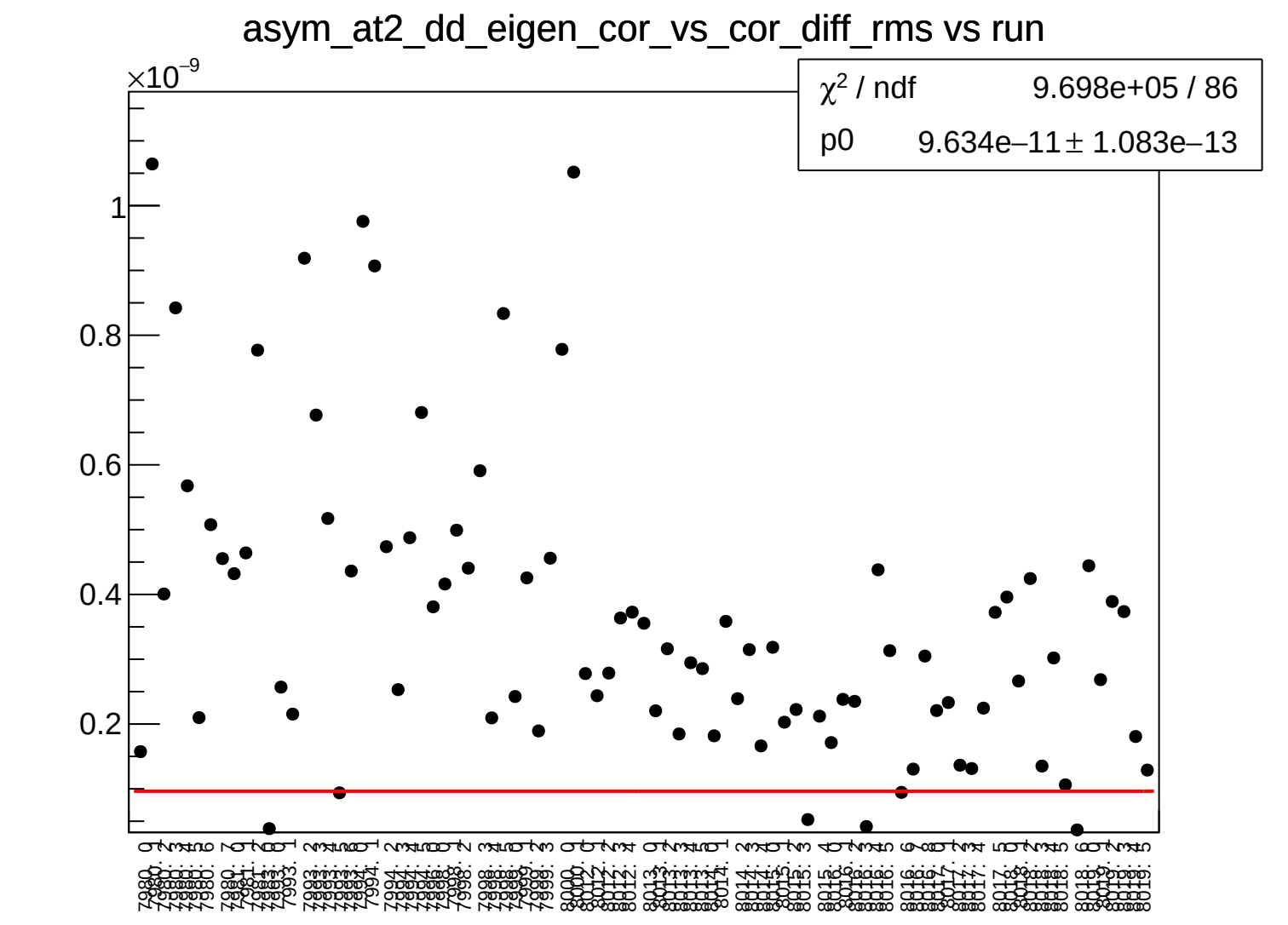

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.488e+05 / 86
p0 85.23 ± 0.06713
300
250
200
150
100
50

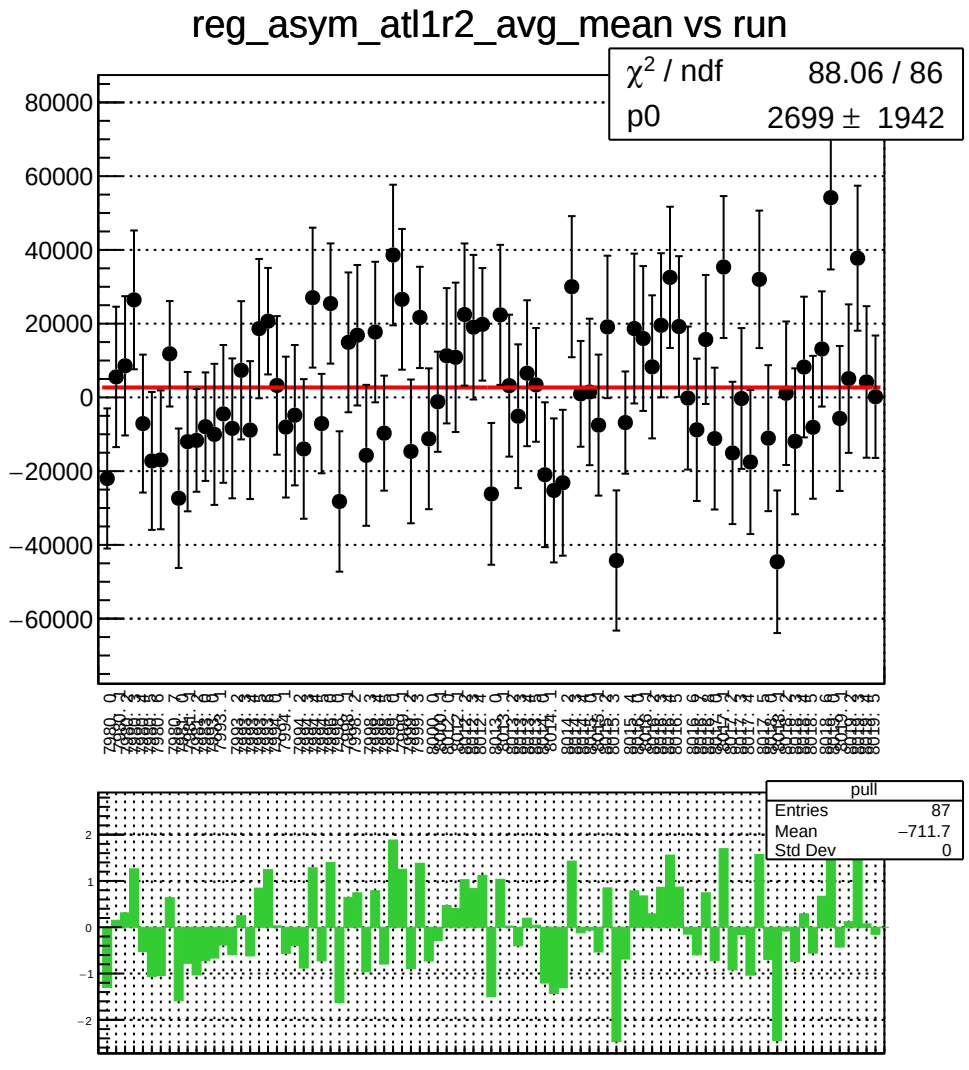

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.58 / 86
p0 −0.01242 ± 0.09494
pull
Entries 87
Mean −33.05
Std Dev 0
pull1D
Entries 87
Mean 0.0381
Std Dev 1.053

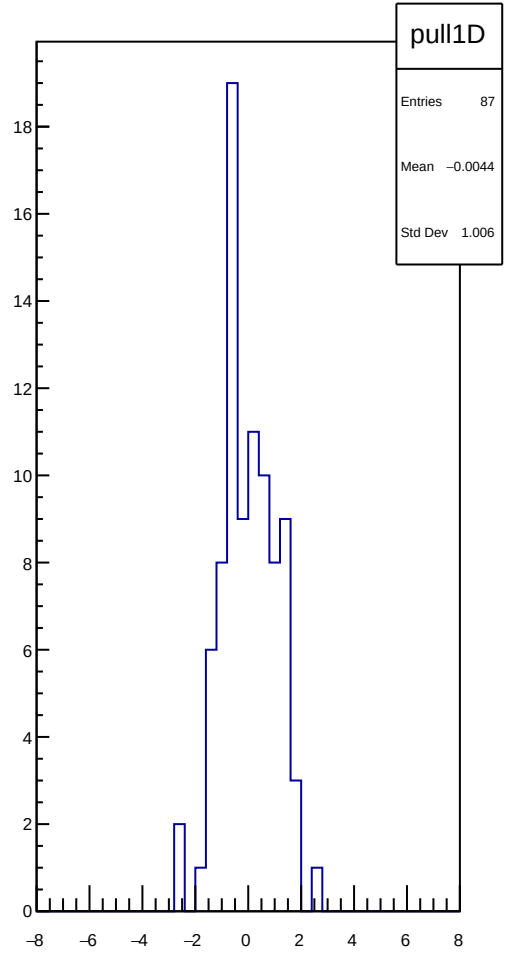

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.488e+05 / 86
p0 85.23 ± 0.06713
300
250
200
150
100
50

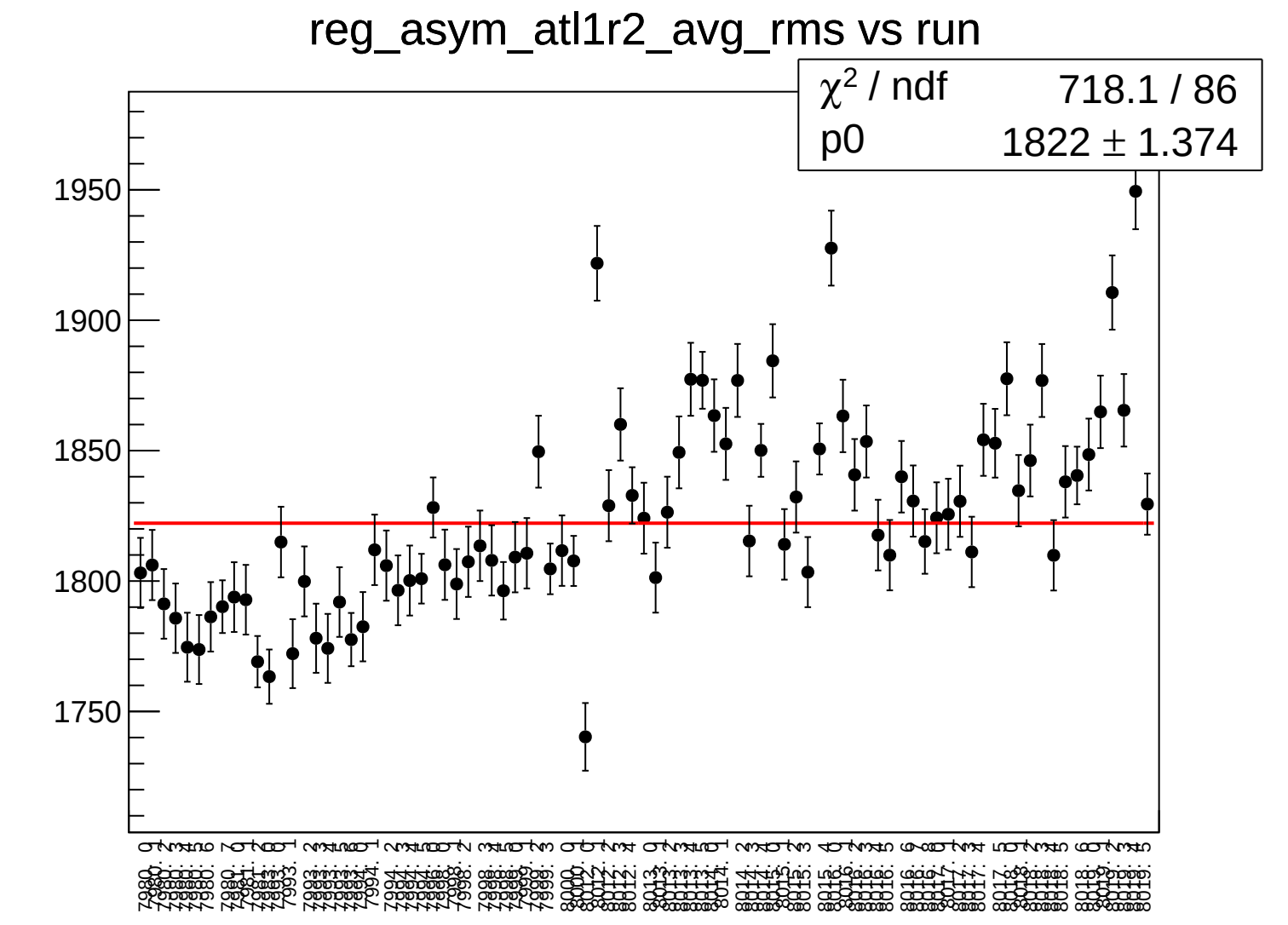

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.98 / 86
p0 −2.938e−13 ± 1.532e−13
pull
Entries 87
Mean 10.28
Std Dev 0

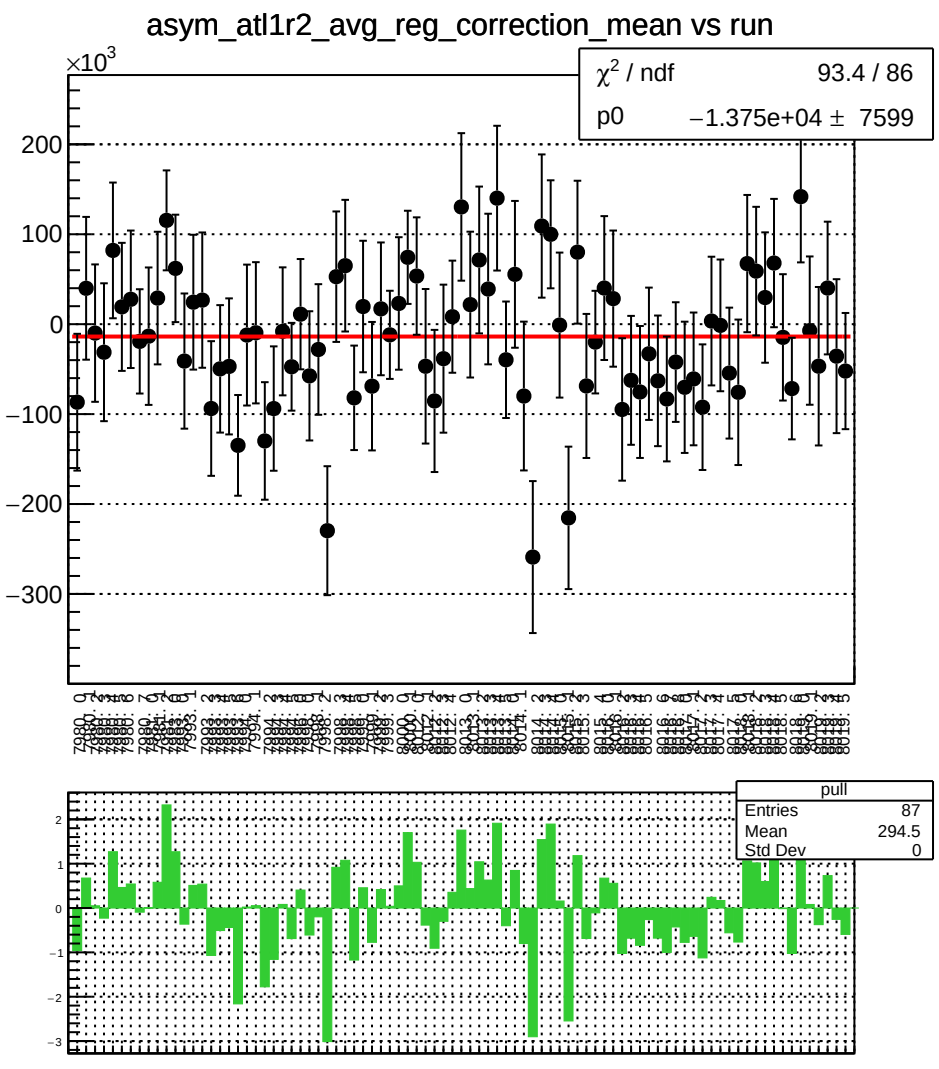

pull1D
Entries 87
Mean −0.006036
Std Dev 1.023

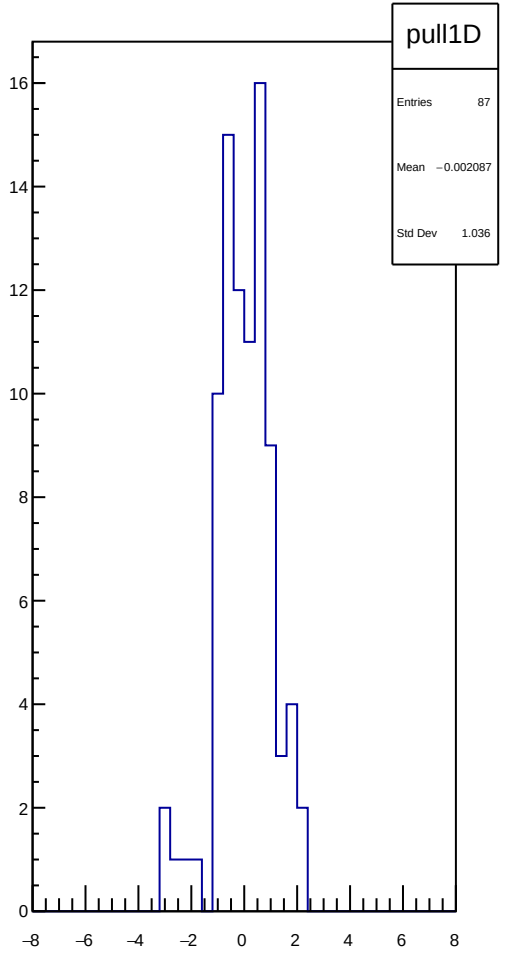

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.698e+05 / 86
p0 9.634e−11 ± 1.083e−13
1
0.8
0.6
0.4
0.2

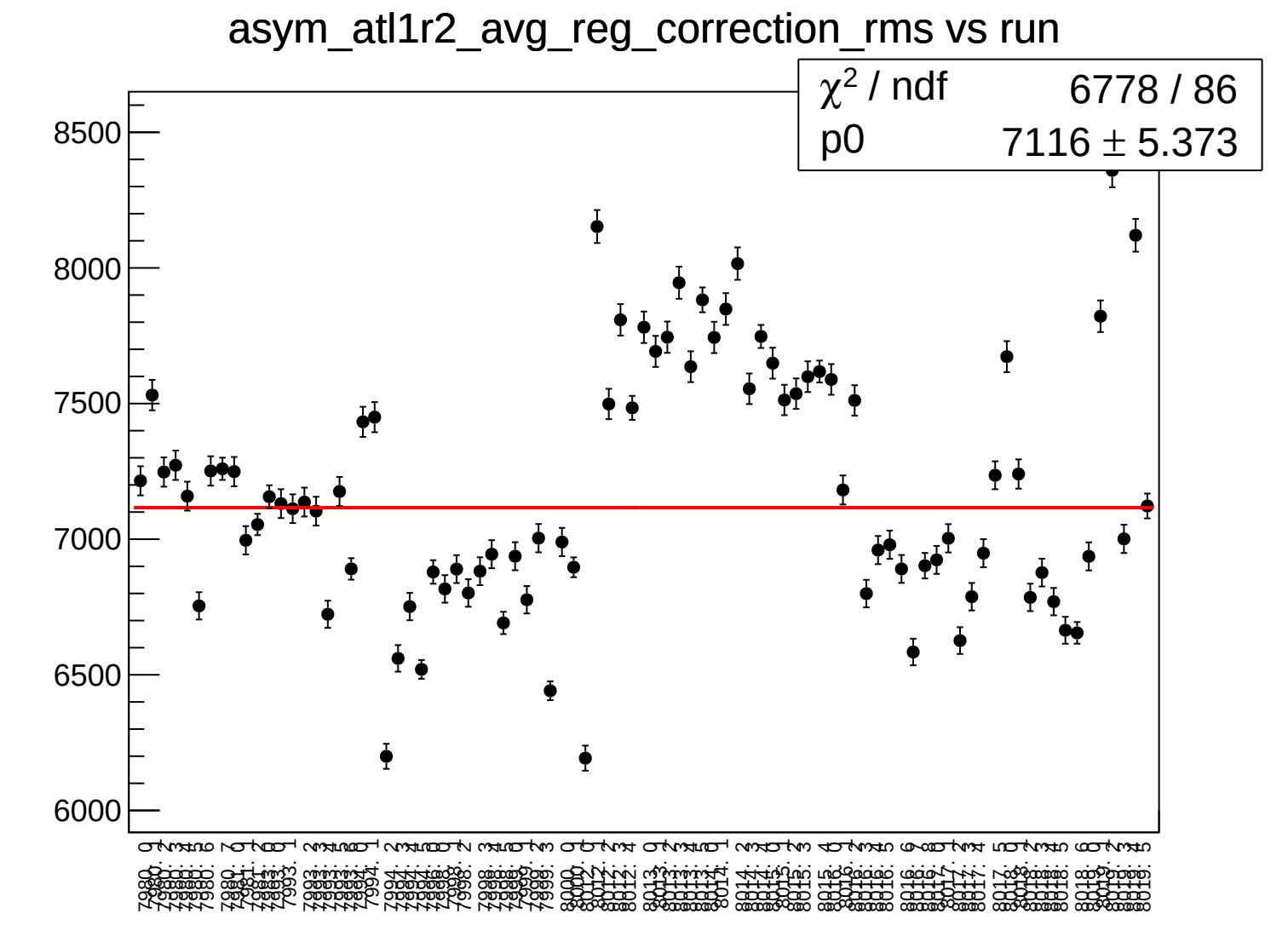

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 88.06 / 86
p0 2699 ± 1942
pull
Entries 87
Mean −711.7
Std Dev 0

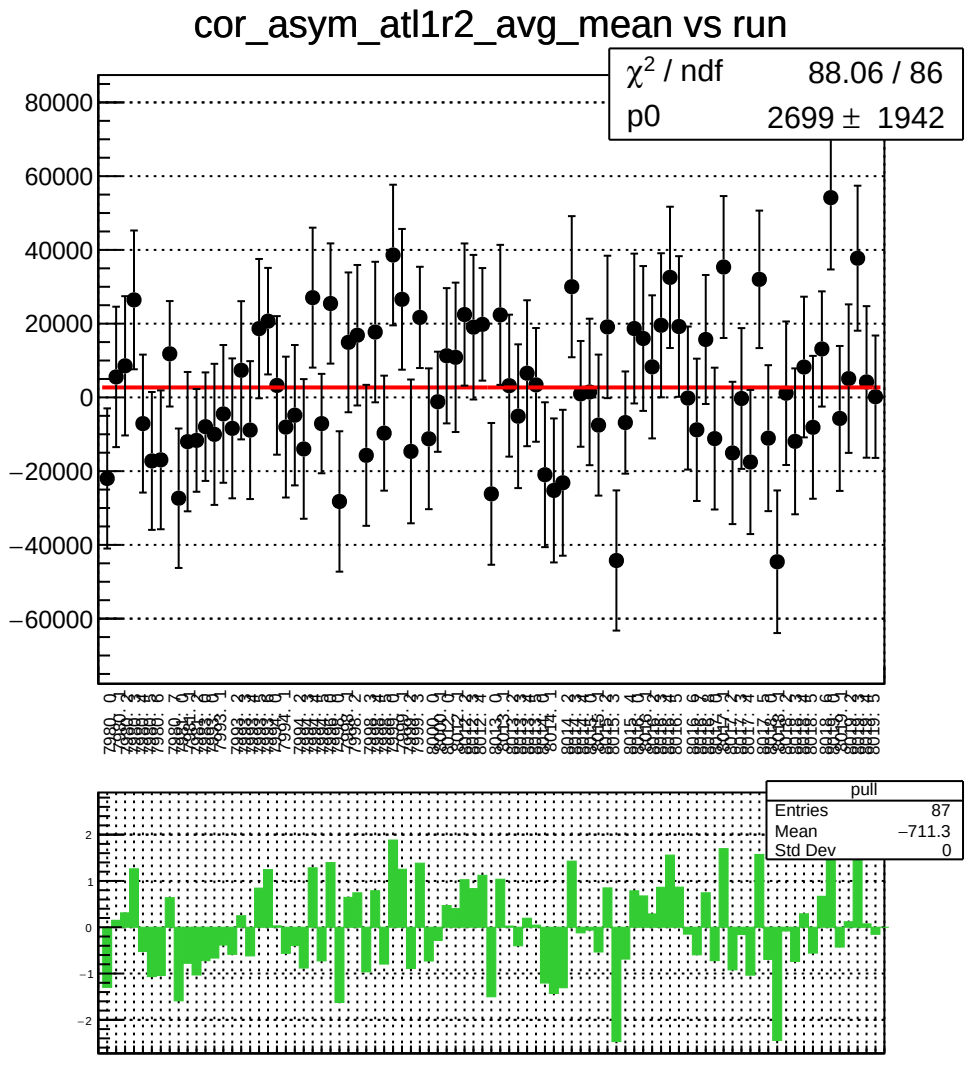

pull1D
Entries 87
Mean −0.0044
Std Dev 1.006

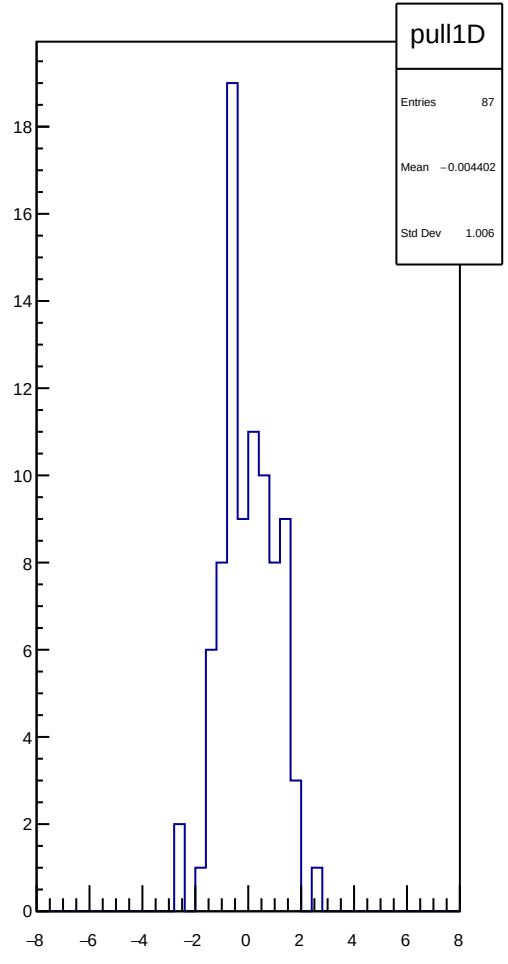

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 718.1 / 86
p0 1822 ± 1.374
1950
1900
1850
1800
1750

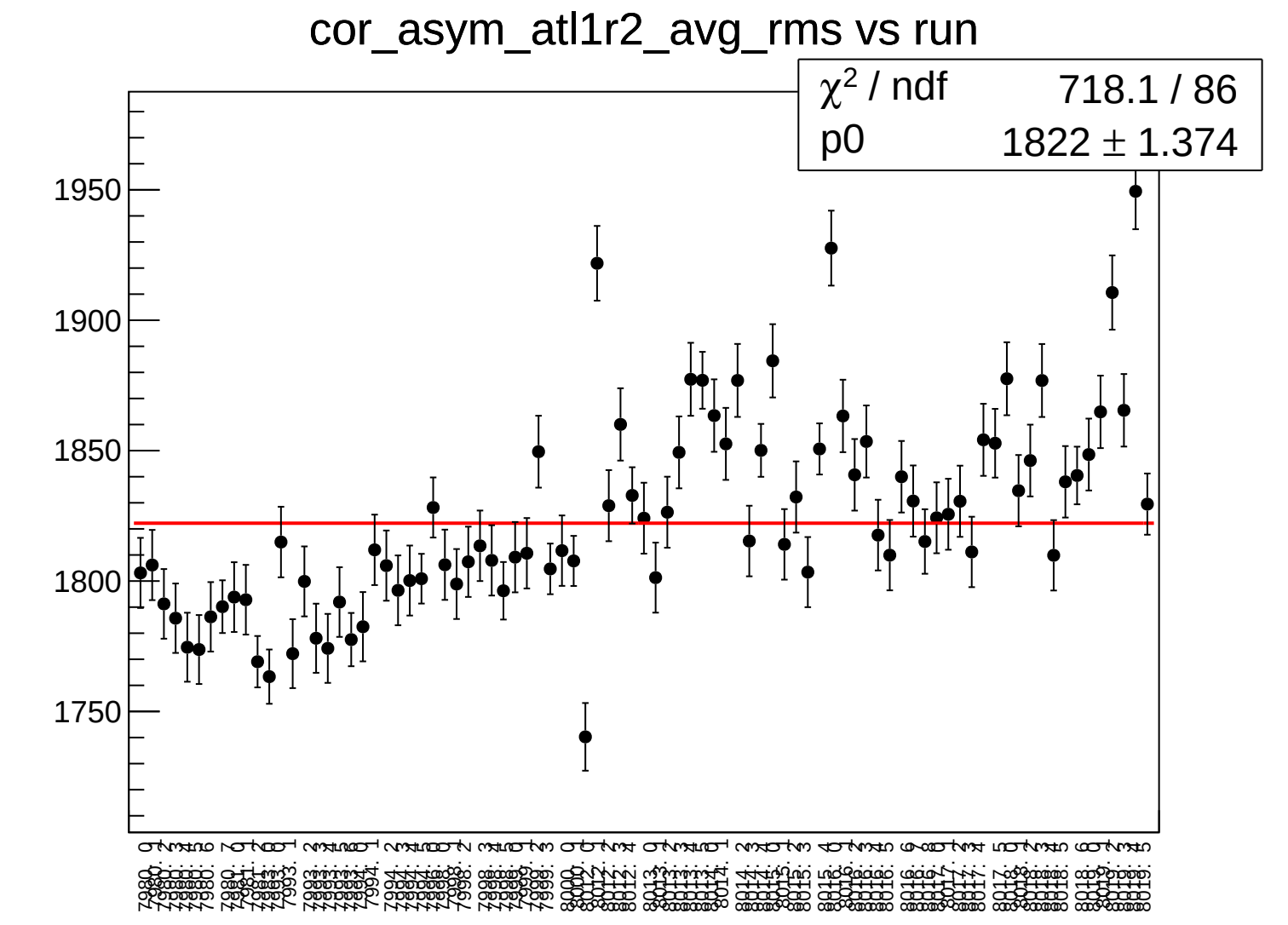

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 93.4 / 86
p0 −1.375e+04 ± 7599
200
100
0
−100
−200
−300
pull
Entries 87
Mean 294.5
Std Dev 0
2
1
0
−1
−2
−3

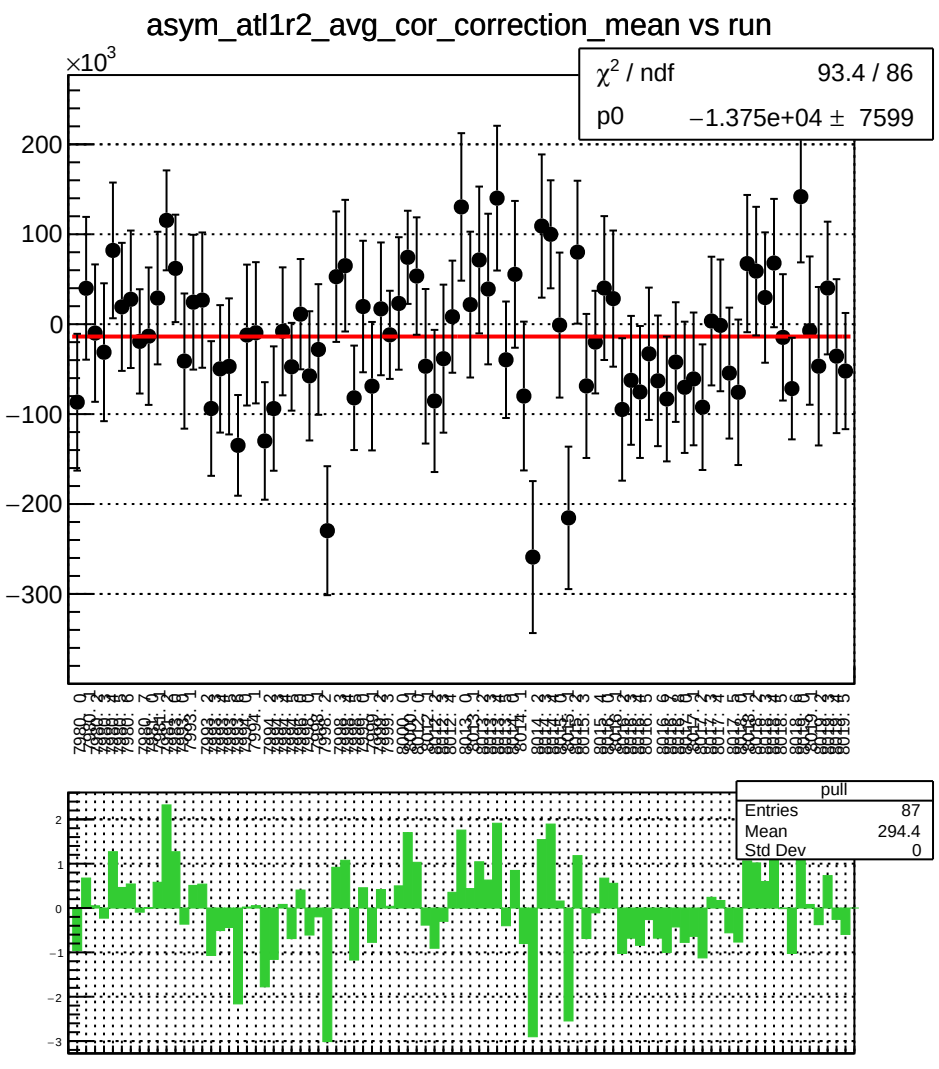

pull1D
Entries 87
Mean −0.002087
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

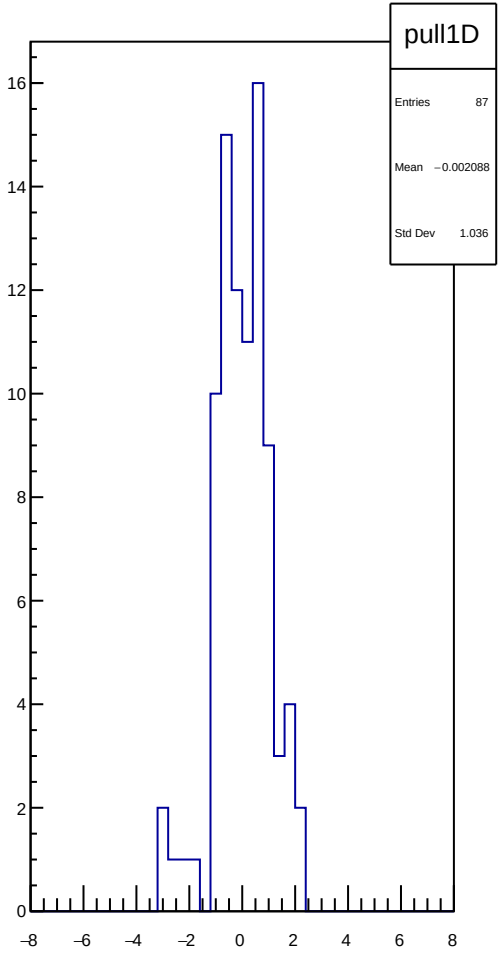

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 6778 / 86
p0 7116 ± 5.373
8500
8000
7500
7000
6500
6000

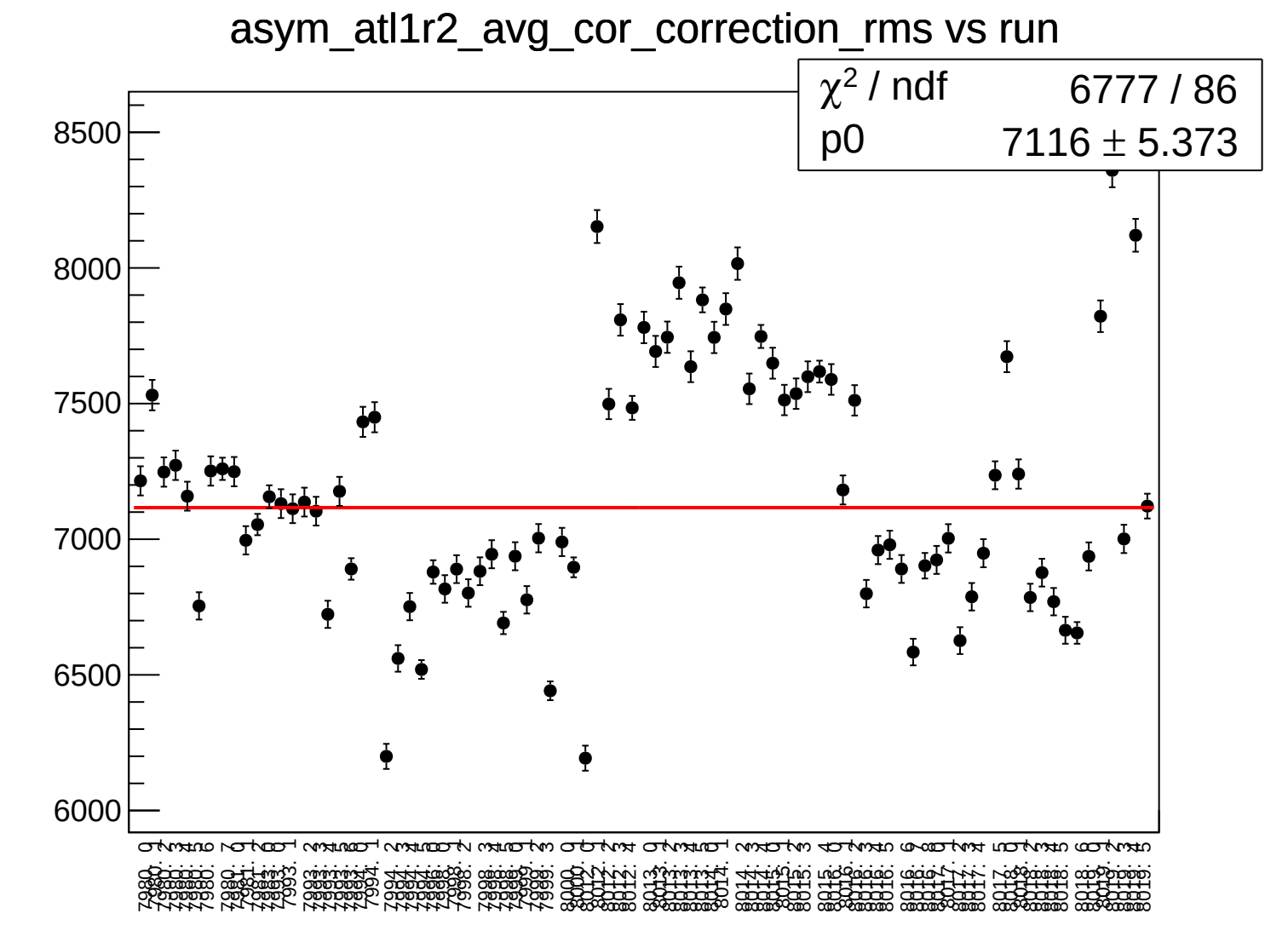

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 88.06 / 86
p0 2699 ± 1942
pull
Entries 87
Mean −711.3
Std Dev 0

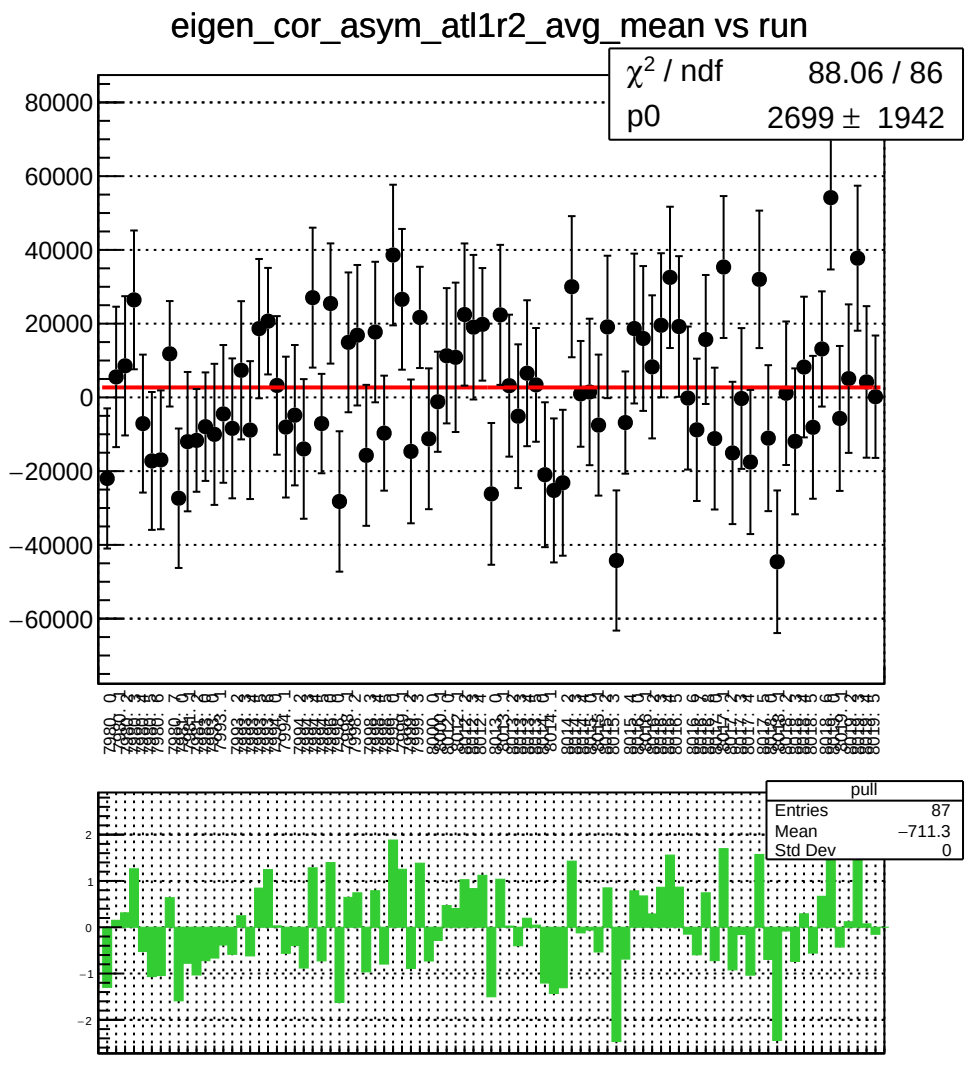

pull1D
Entries 87
Mean −0.004402
Std Dev 1.006

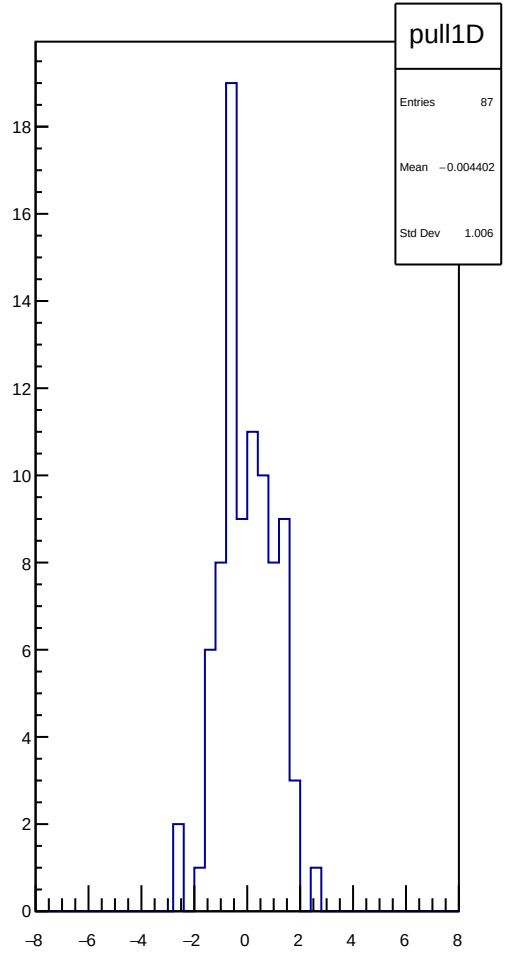

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 718.1 / 86
p0 1822 ± 1.374
1950
1900
1850
1800
1750

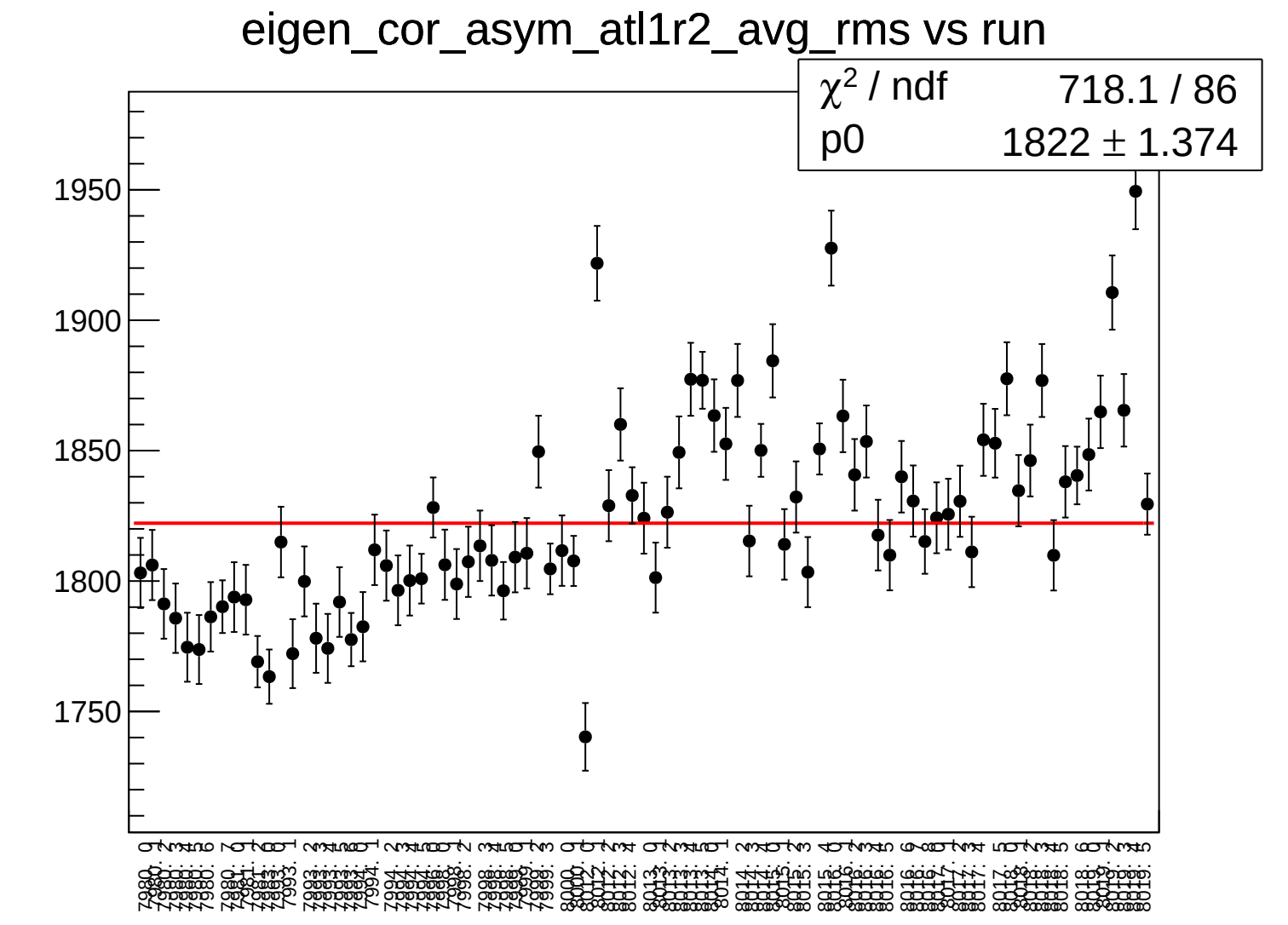

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 93.4 / 86
p0 −1.375e+04 ± 7599
200
100
0
−100
−200
−300
pull
Entries 87
Mean 294.4
Std Dev 0
2
1
0
−1
−2
−3

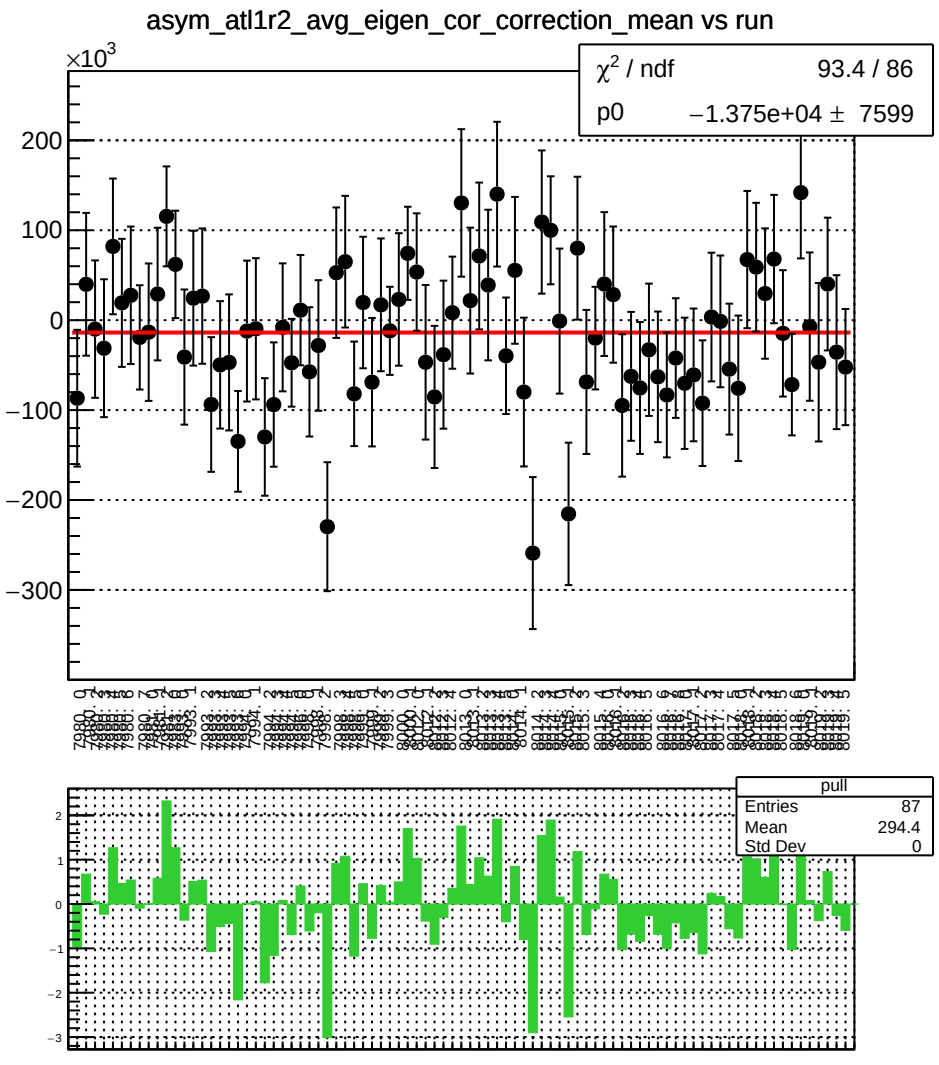

pull1D
Entries 87
Mean −0.002088
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

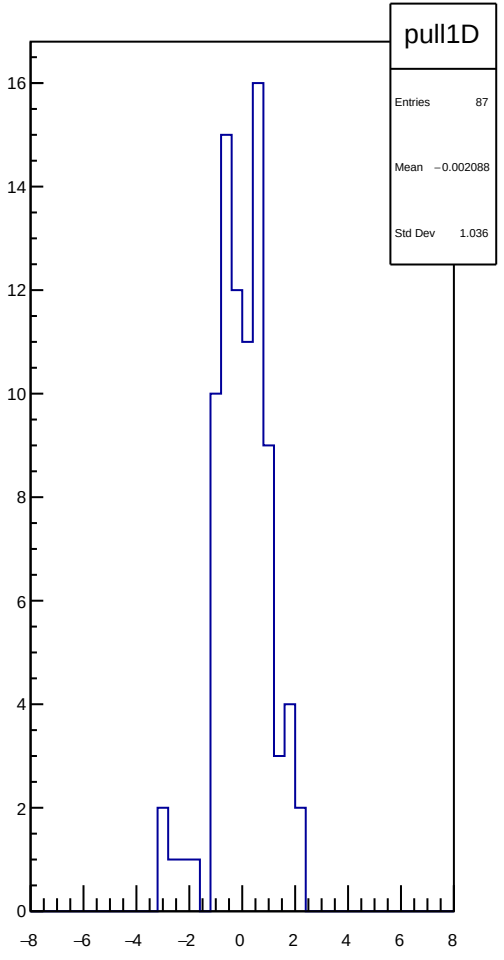

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 6777 / 86
p0 7116 ± 5.373
8500
8000
7500
7000
6500
6000

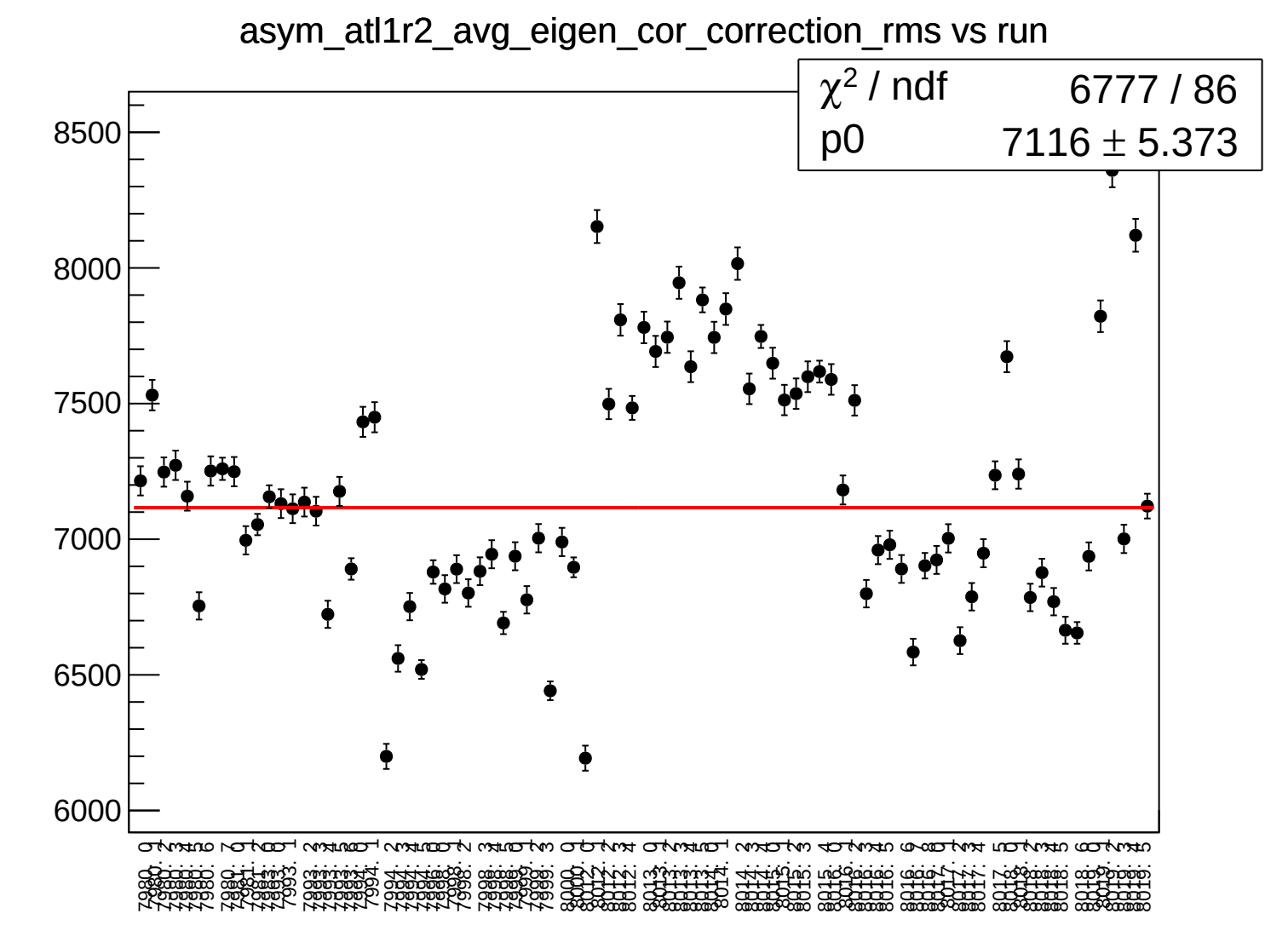

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 88.06 / 86
p0 2699 ± 1942
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −711.3
Std Dev 0
2
1
0
−1
−2

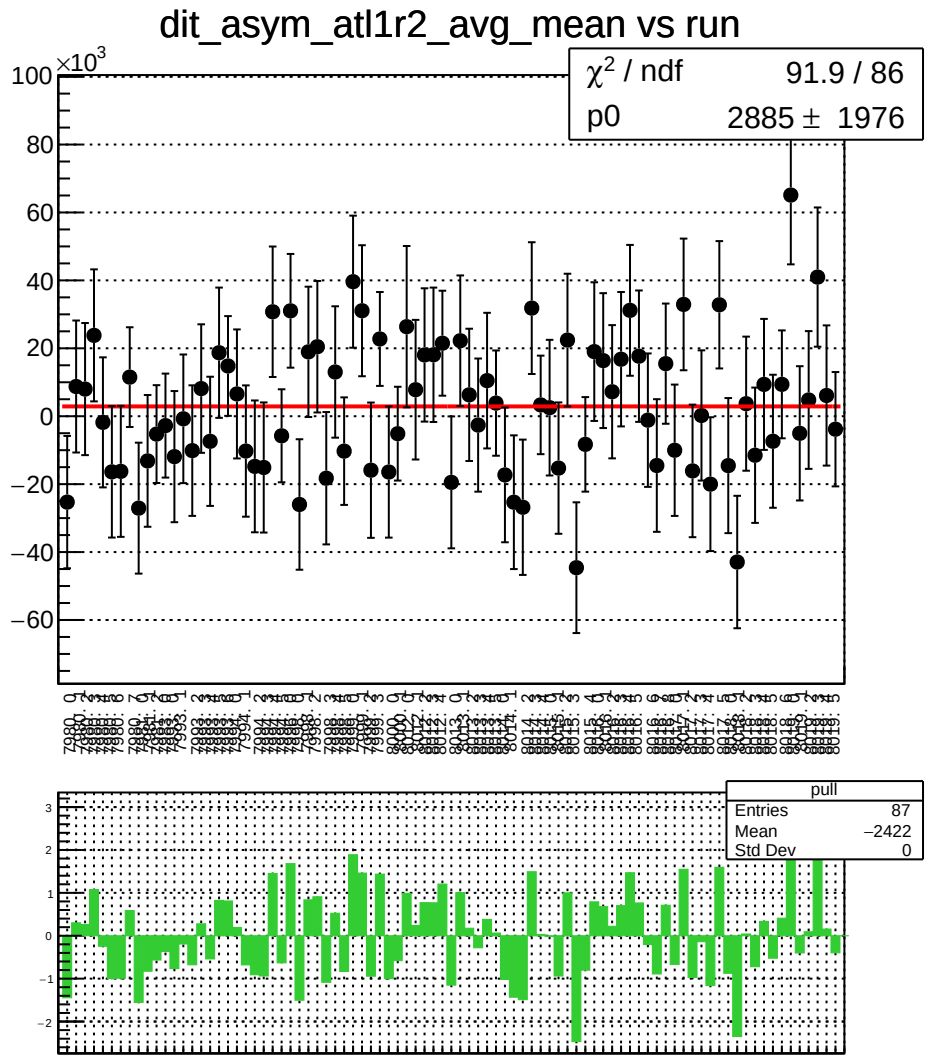

pull1D
Entries 87
Mean −0.004402
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

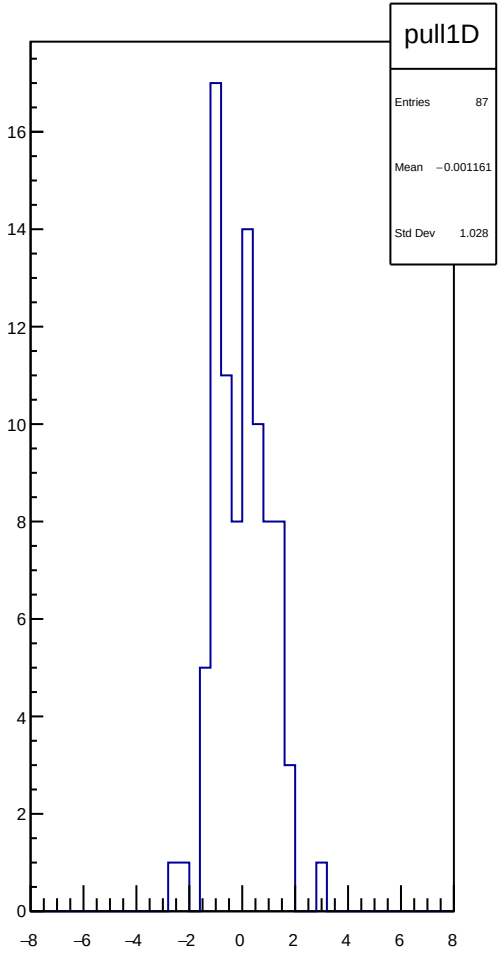

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 718.1 / 86
p0 1822 ± 1.374
1950
1900
1850
1800
1750

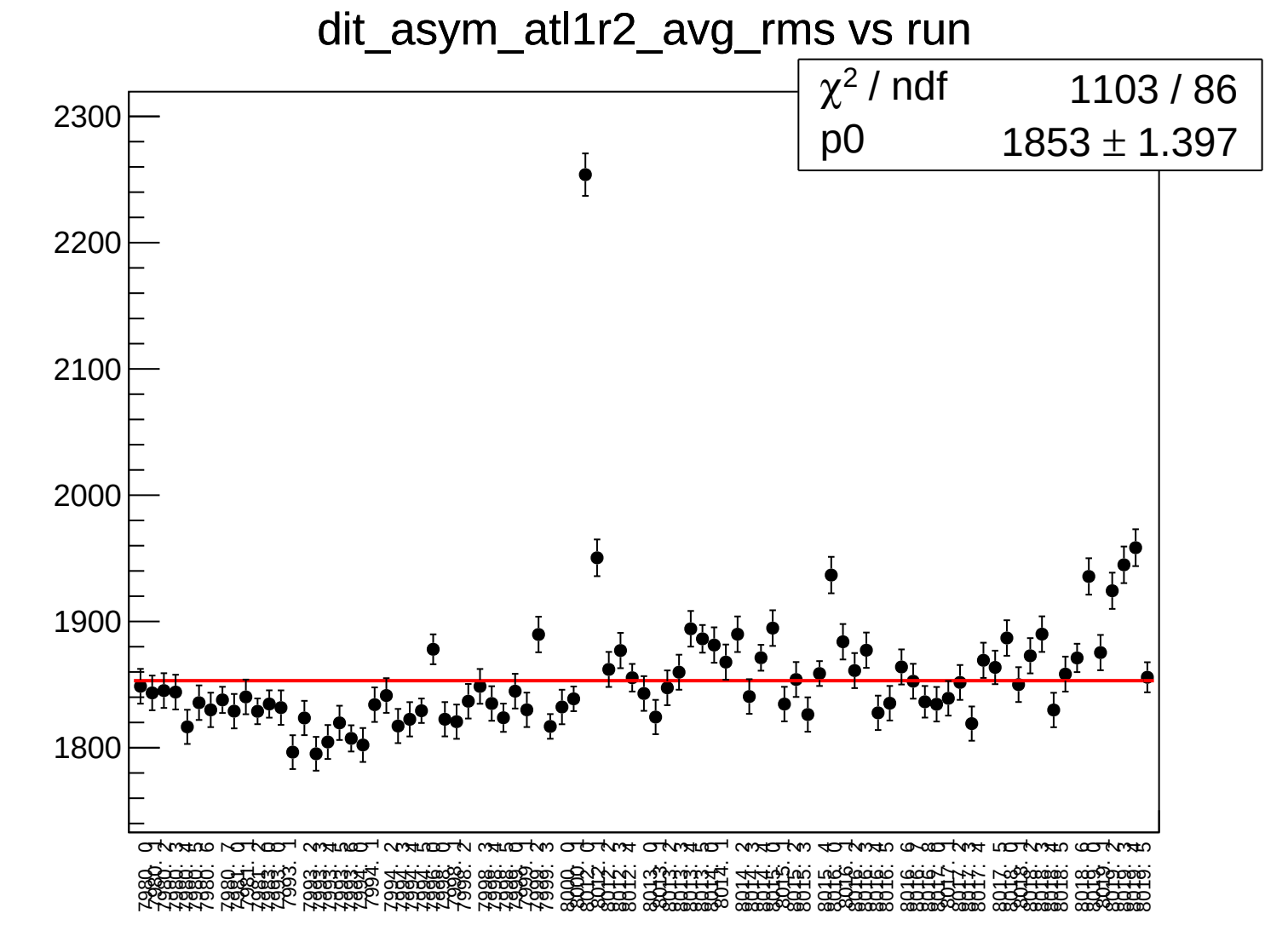

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.4 / 86
p0 −1.375e+04 ± 7599
200
100
0
−100
−200
−300
pull
Entries 87
Mean 294.4
Std Dev 0
2
1
0
−1
−2
−3

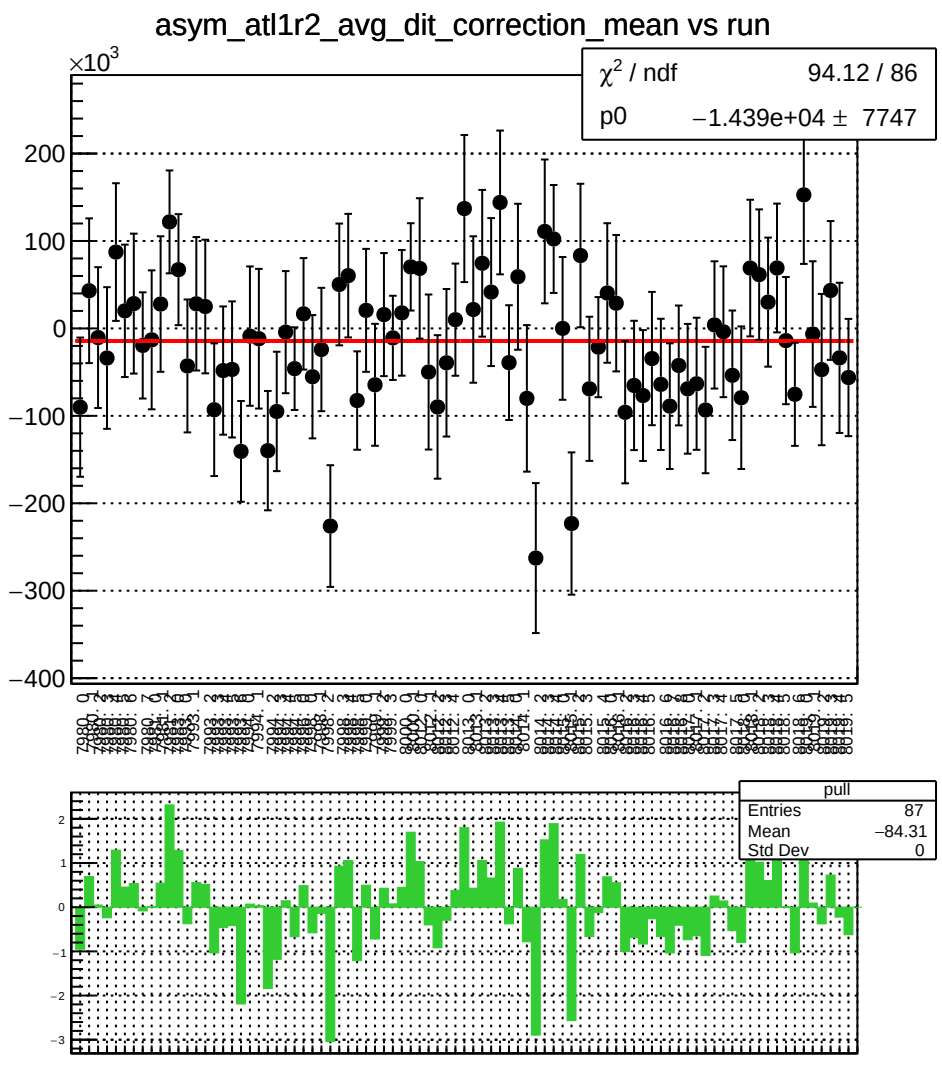

pull1D
Entries 87
Mean −0.002088
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

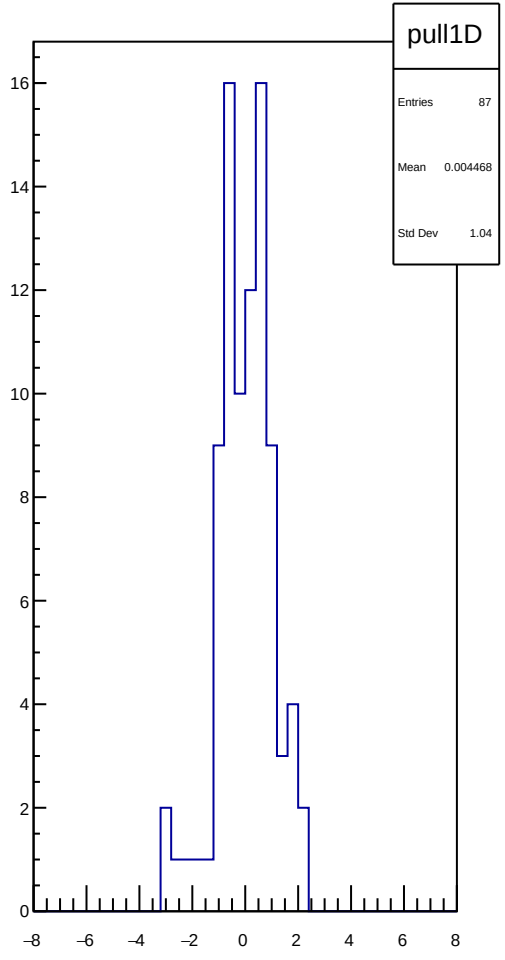

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6777 / 86
p0 7116 ± 5.373
8500
8000
7500
7000
6500
6000

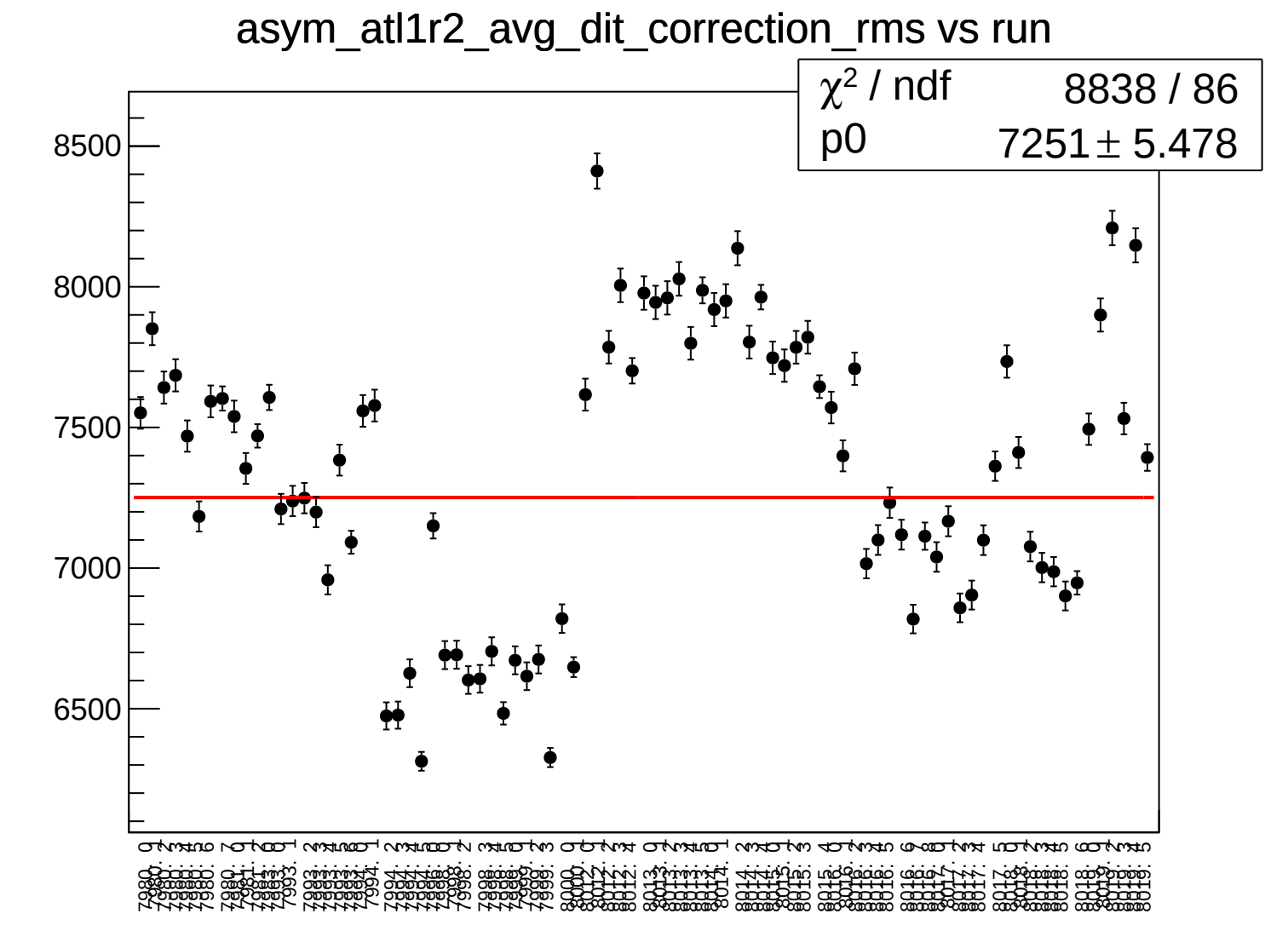

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 91.9 / 86
p0 2885 ± 1976
pull
Entries 87
Mean −2422
Std Dev 0

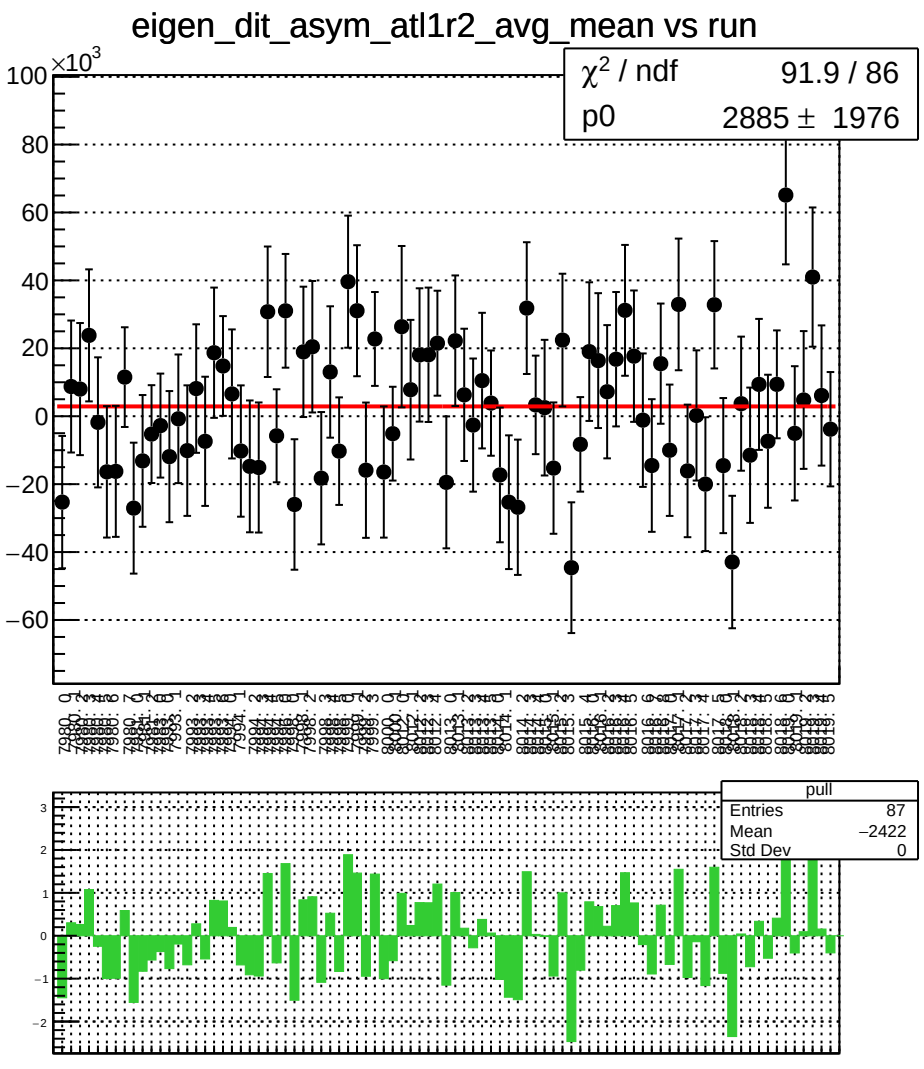

pull1D
Entries 87
Mean −0.001161
Std Dev 1.028

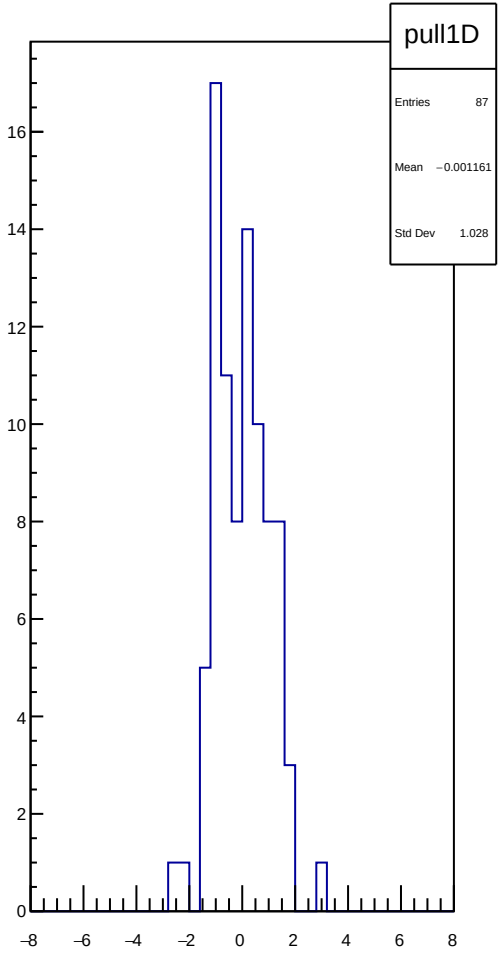

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1103 / 86
p0 1853 ± 1.397
2300
2200
2100
2000
1900
1800

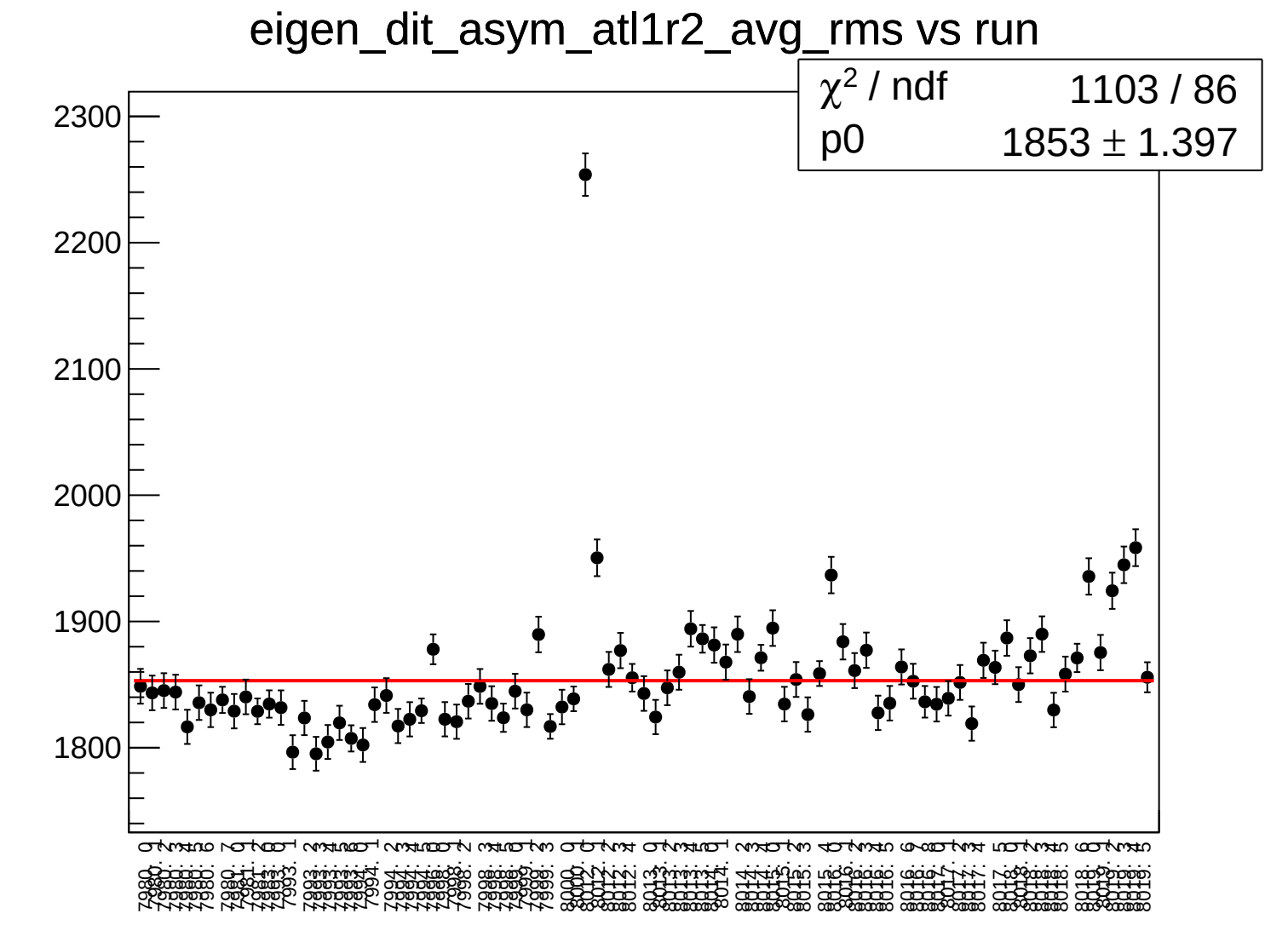

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.12 / 86
p0 −1.439e+04 ± 7747
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean −84.31
Std Dev 0
2
1
0
−1
−2
−3

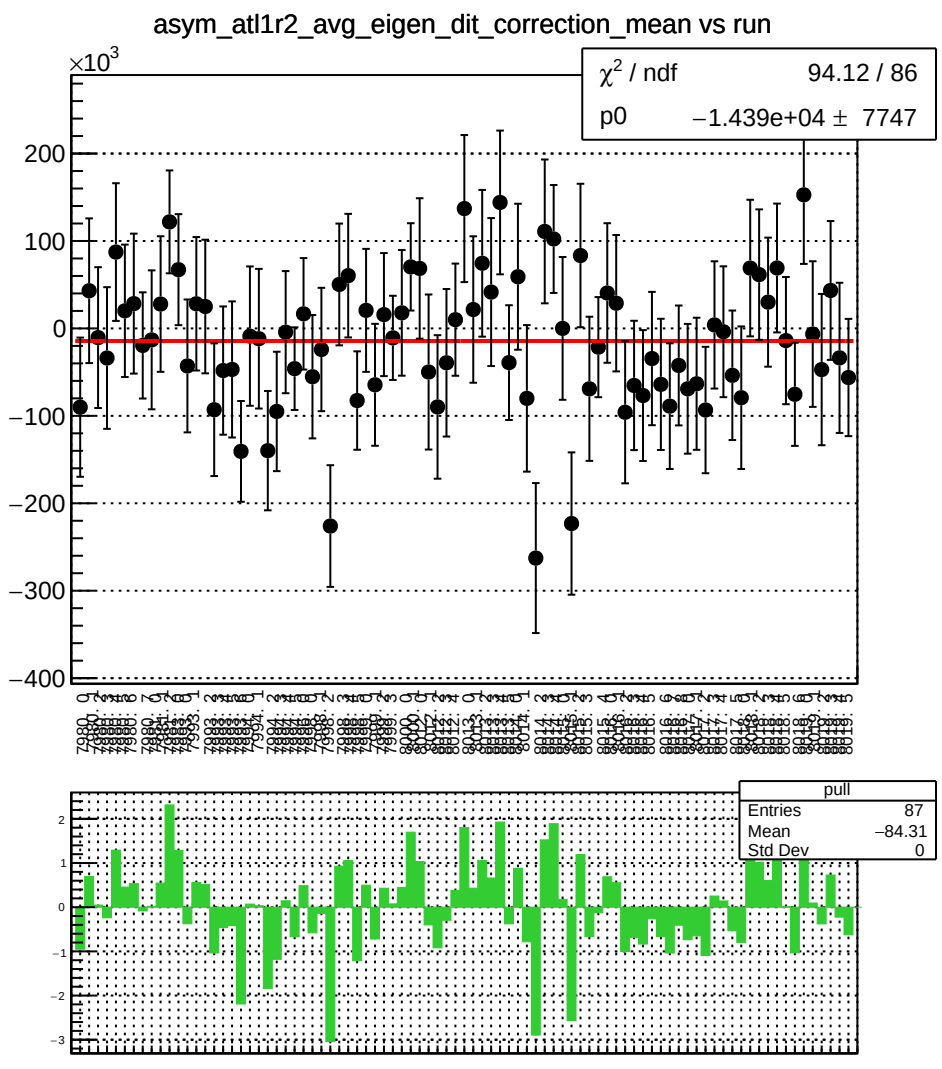

pull1D
Entries 87
Mean 0.004468
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

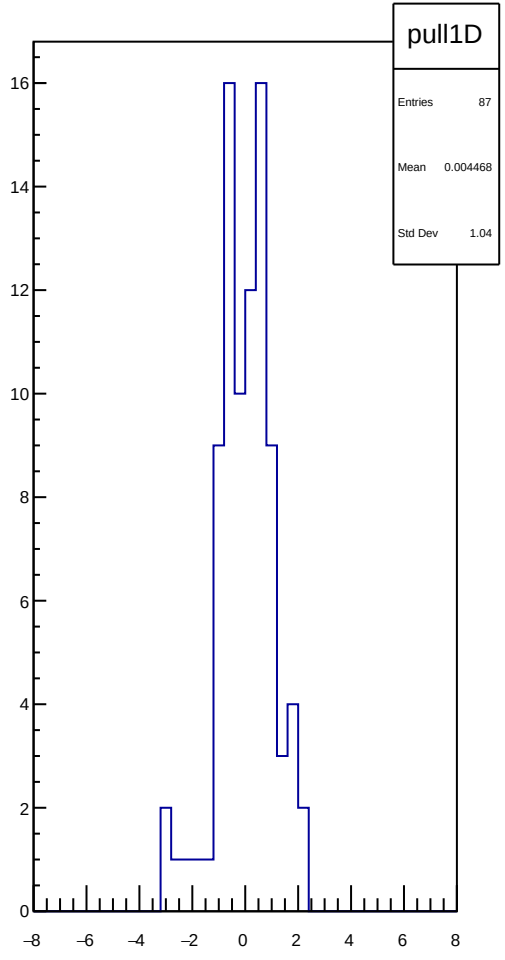

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 8838 / 86
p0 7251 ± 5.478
8500
8000
7500
7000
6500

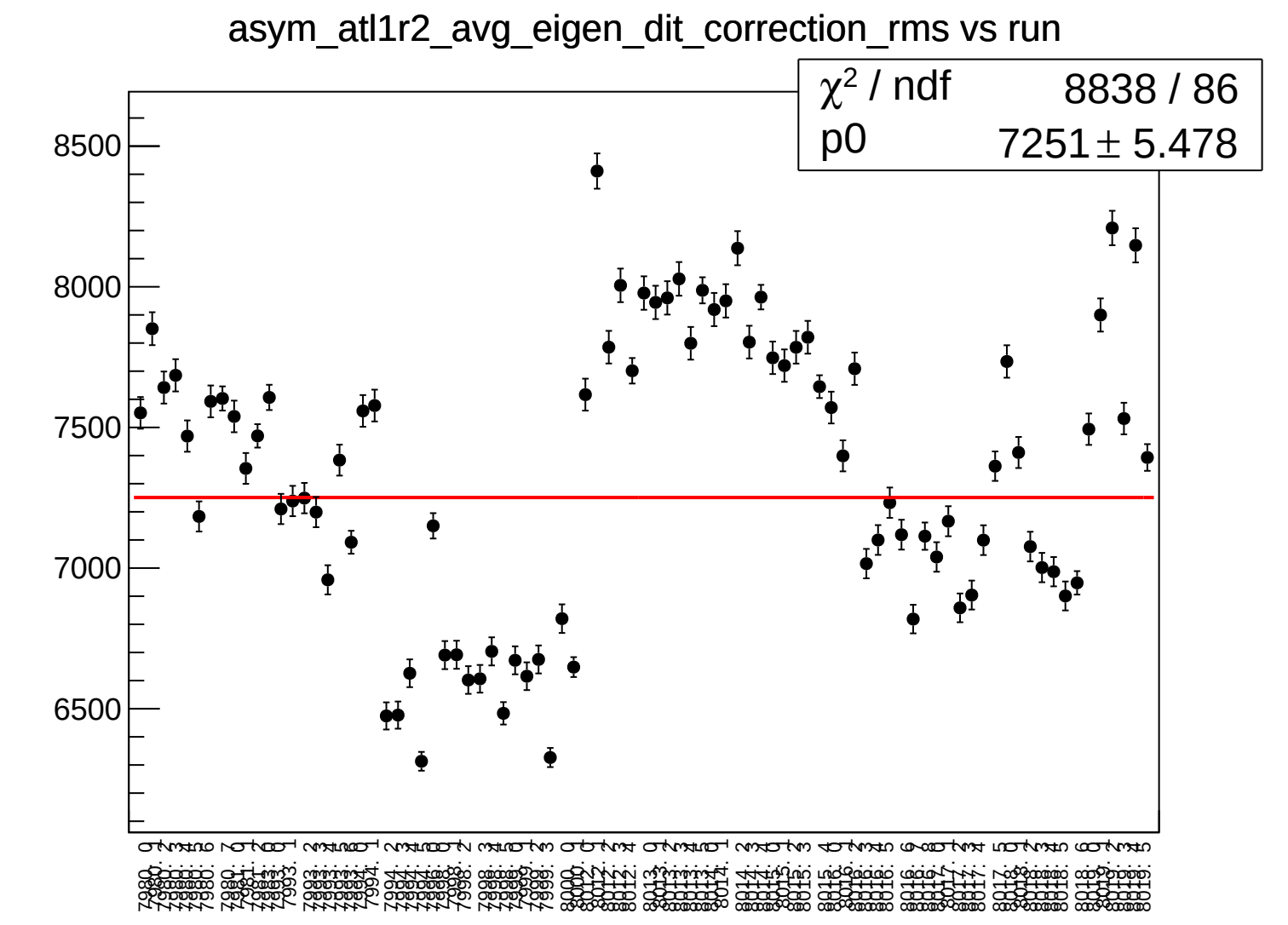

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 91.9 / 86
p0 2885 ± 1976
×10³
pull
Entries 87
Mean −2422
Std Dev 0

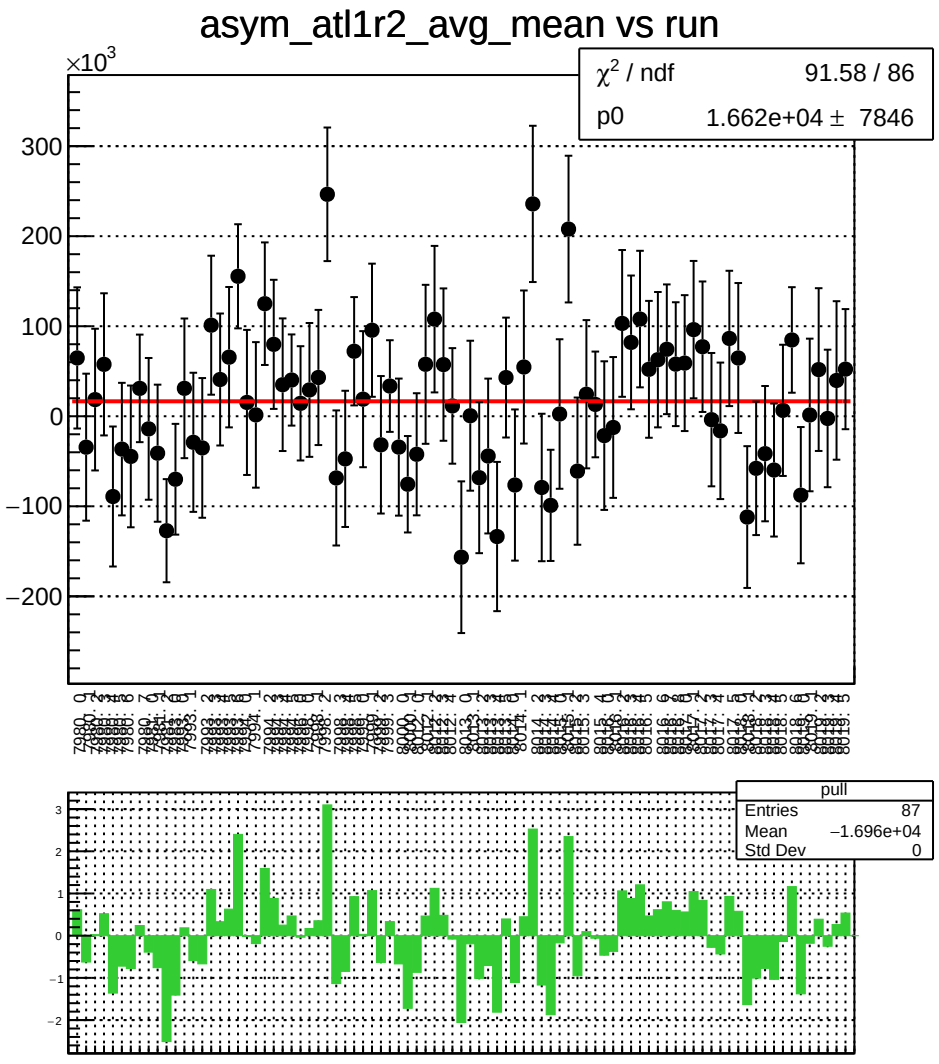

pull1D
Entries 87
Mean −0.001161
Std Dev 1.028

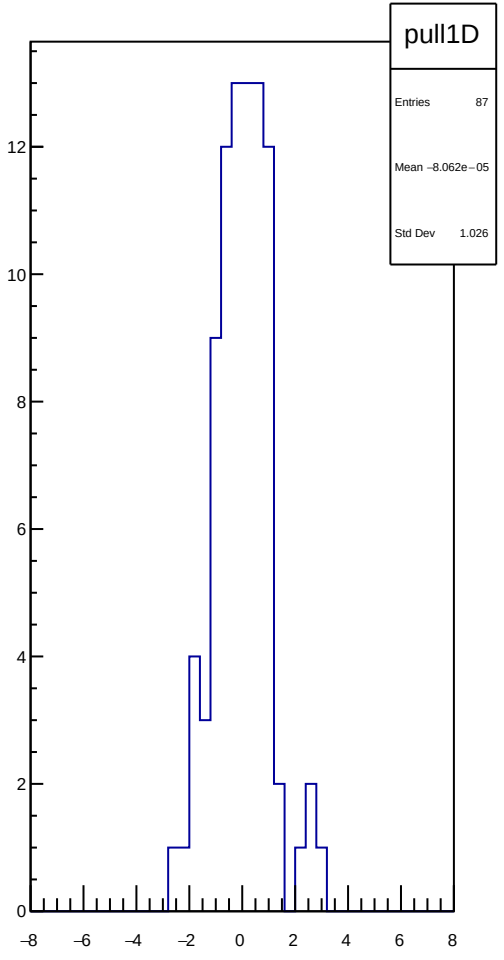

eigen_dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 1103 / 86
p0 1853 ± 1.397
2300
2200
2100
2000
1900
1800

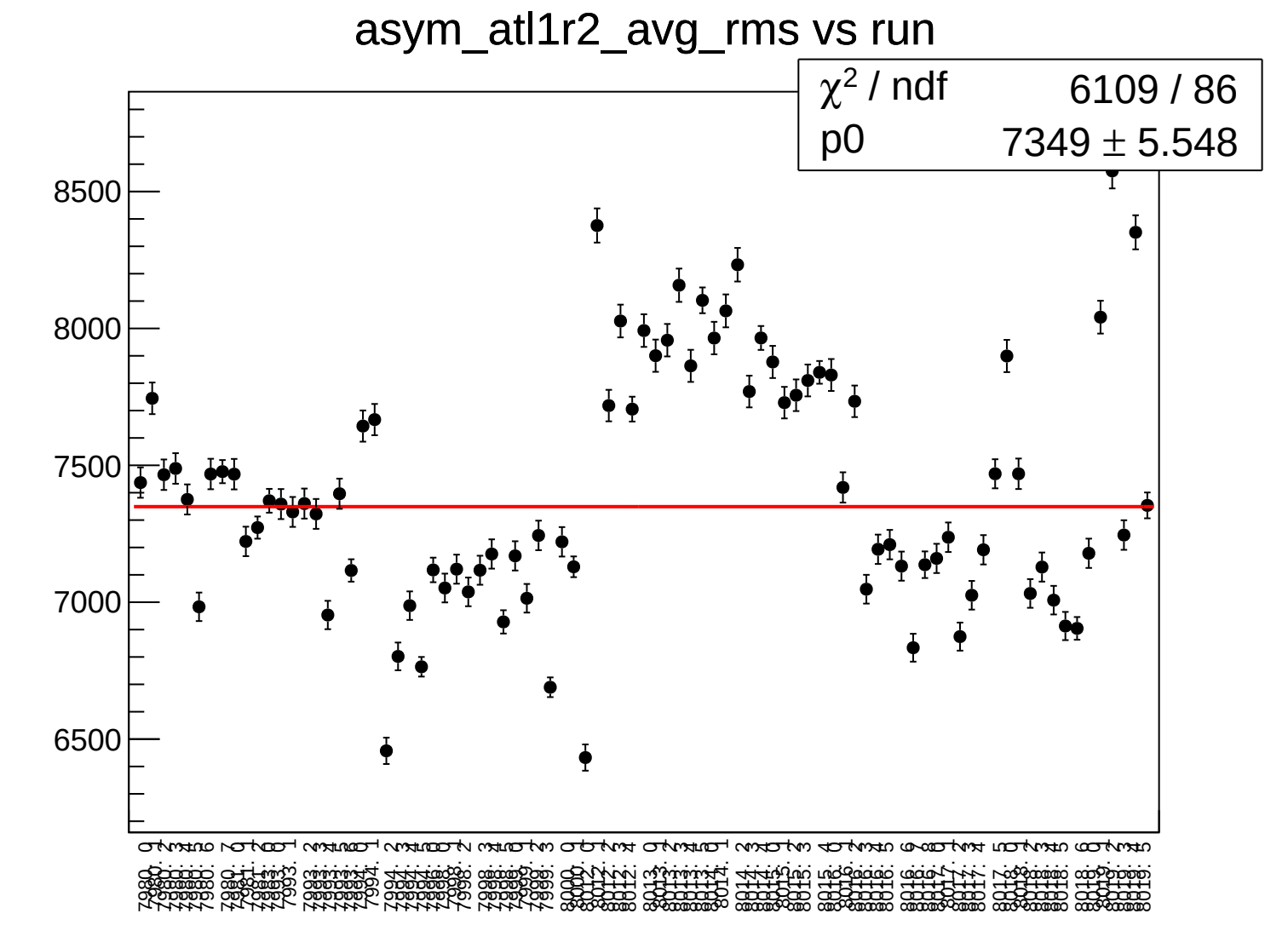

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.12 / 86
p0 −1.439e+04 ± 7747
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean −84.31
Std Dev 0
2
1
0
−1
−2
−3

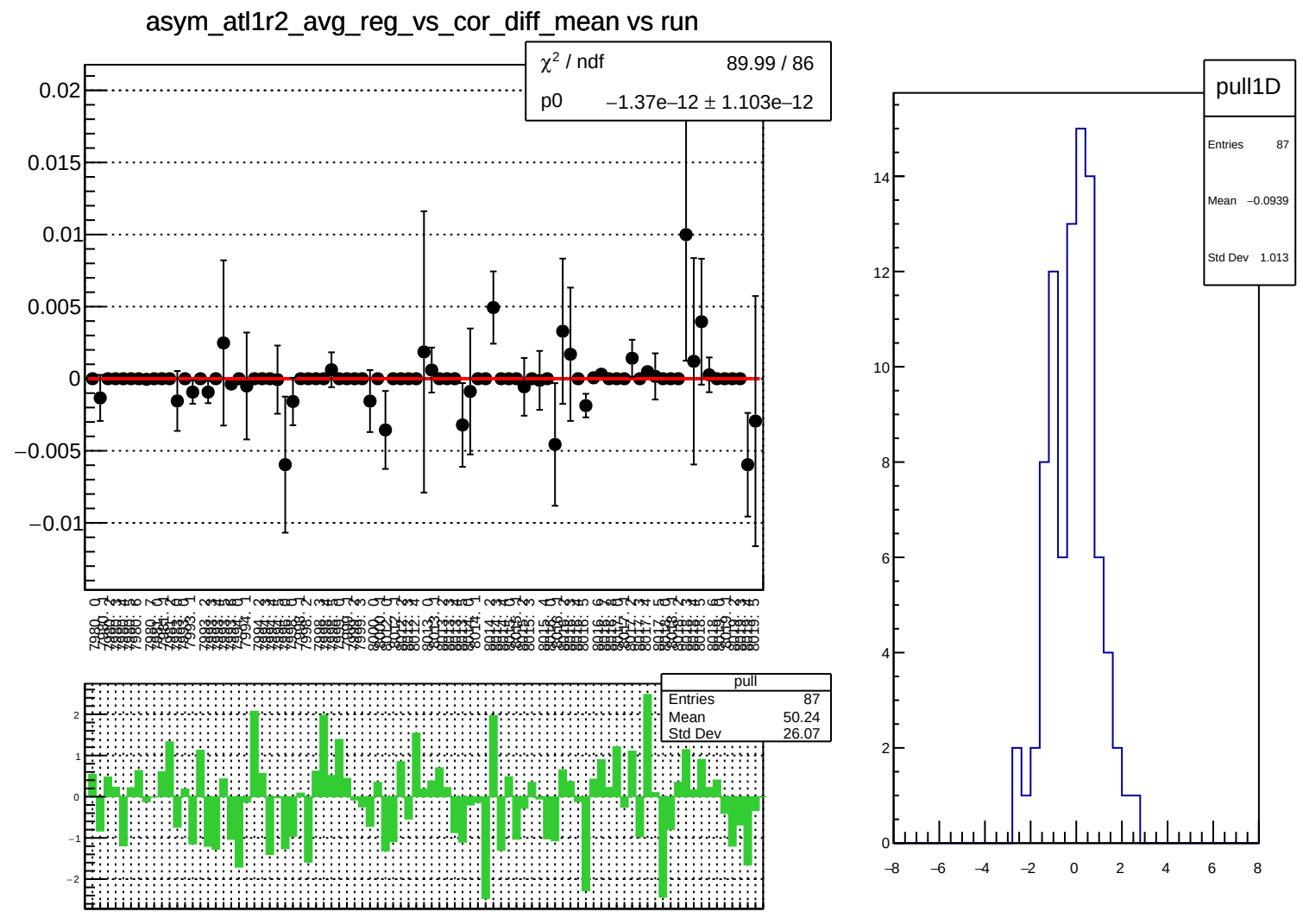

pull1D
Entries 87
Mean 0.004468
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

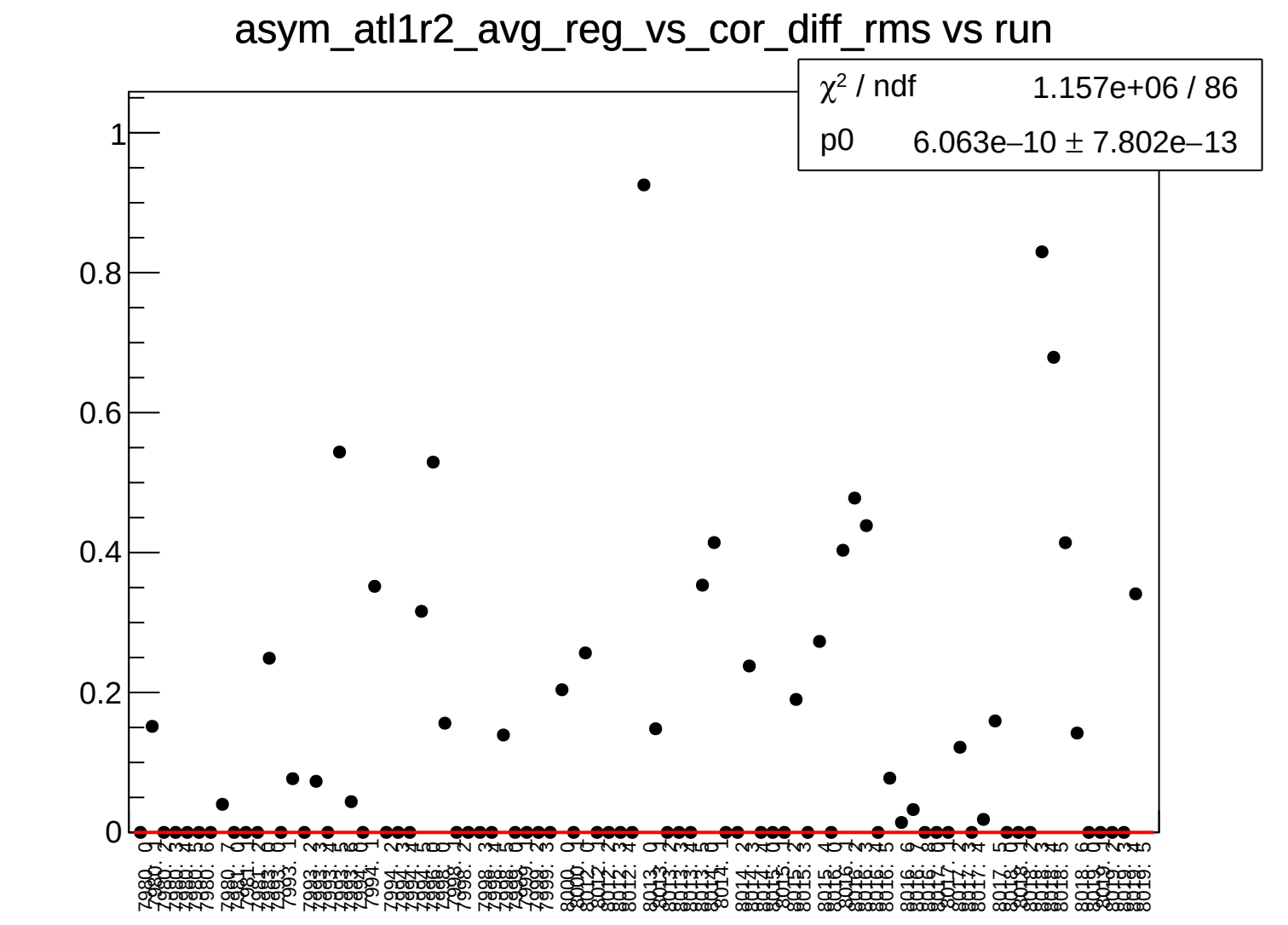

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8838 / 86
p0 7251 ± 5.478
8500
8000
7500
7000
6500

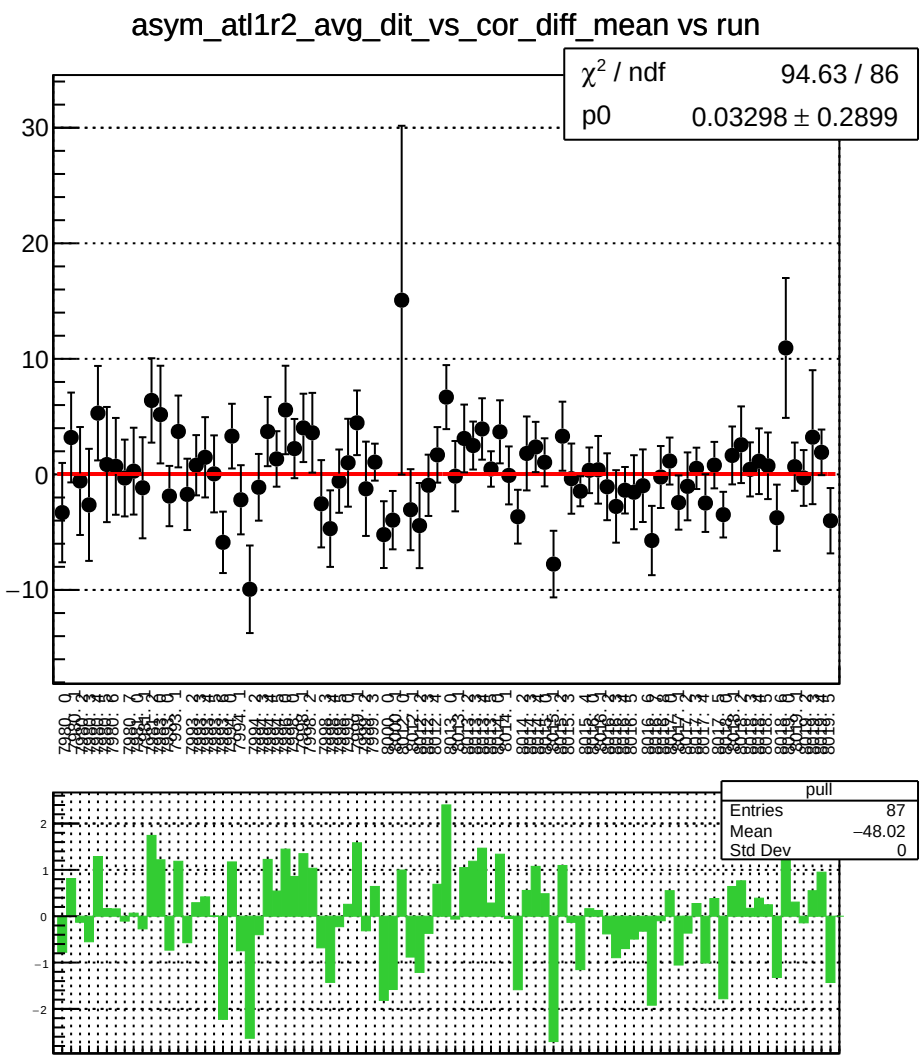

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 91.58 / 86
p0 1.662e+04 ± 7846
pull
Entries 87
Mean −1.696e+04
Std Dev 0

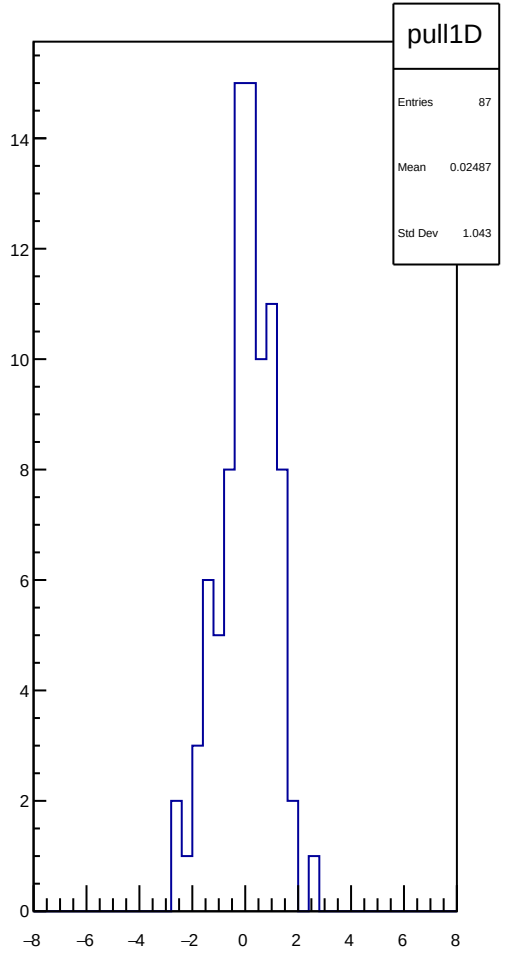

pull1D
Entries 87
Mean −8.062e−05
Std Dev 1.026

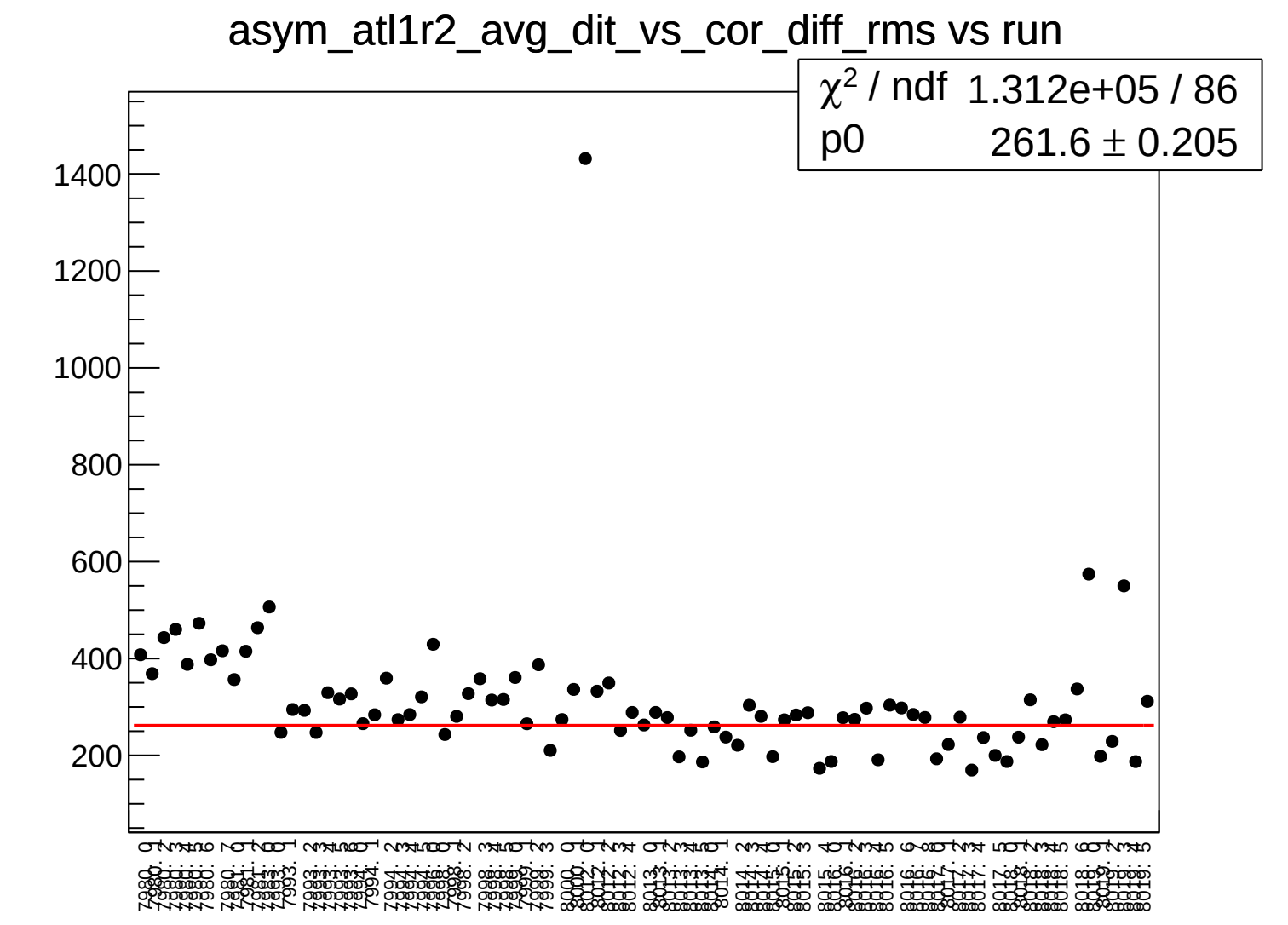

asym_atl1r2_avg_rms vs run
χ² / ndf 6109 / 86
p0 7349 ± 5.548
8500
8000
7500
7000
6500

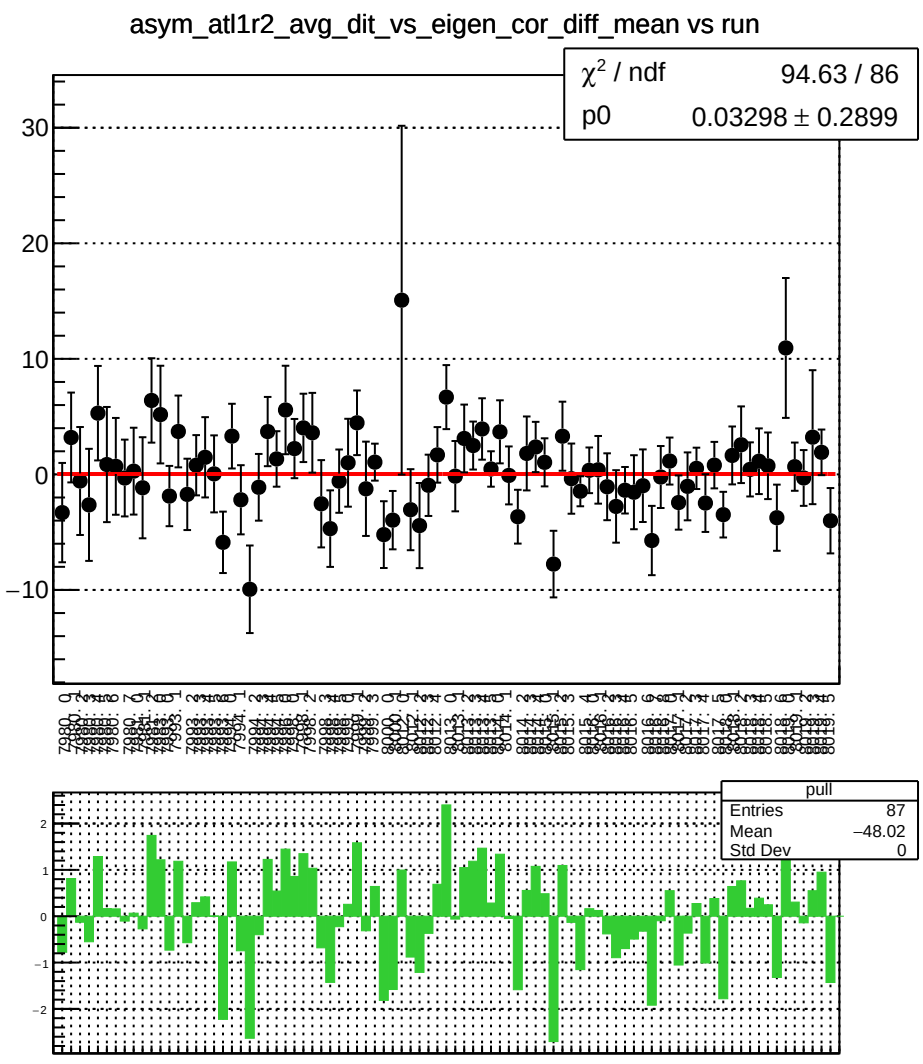

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.99 / 86
p0 −1.37e−12 ± 1.103e−12
pull
Entries 87
Mean 50.24
Std Dev 26.07
pull1D
Entries 87
Mean −0.0939
Std Dev 1.013

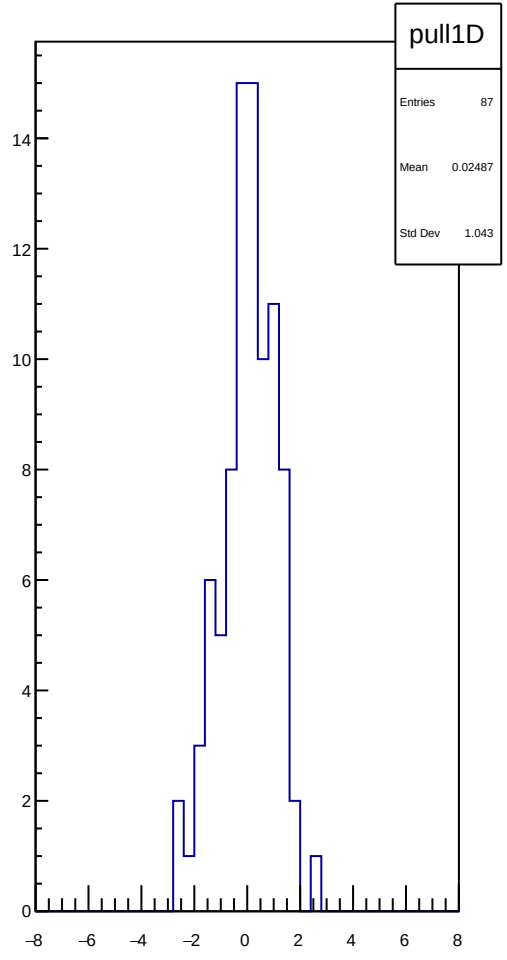

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.157e+06 / 86
p0 6.063e−10 ± 7.802e−13
1
0.8
0.6
0.4
0.2
0

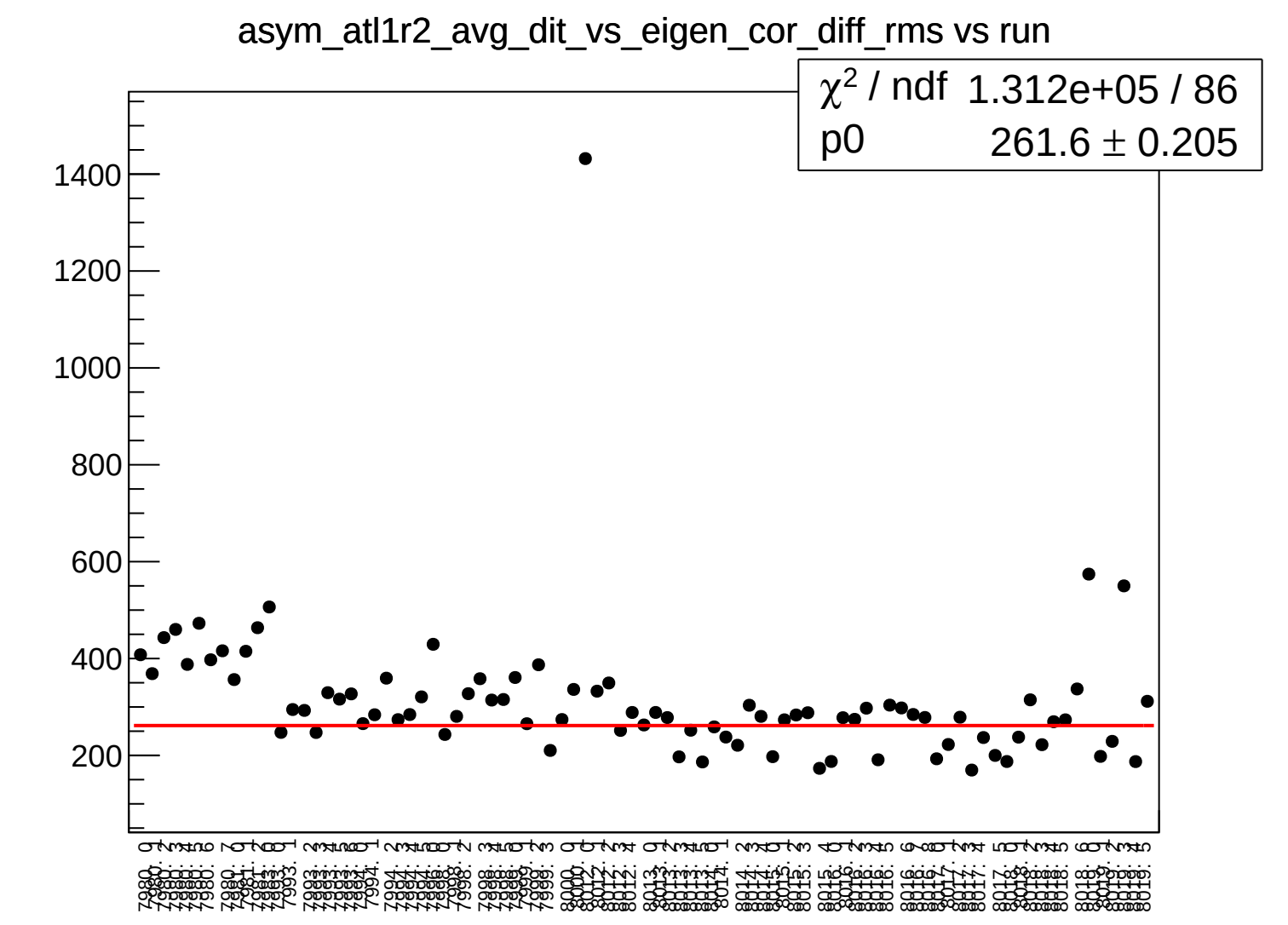

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.63 / 86
p0 0.03298 ± 0.2899
30
20
10
0
−10
pull
Entries 87
Mean −48.02
Std Dev 0
2
1
0
−1
−2

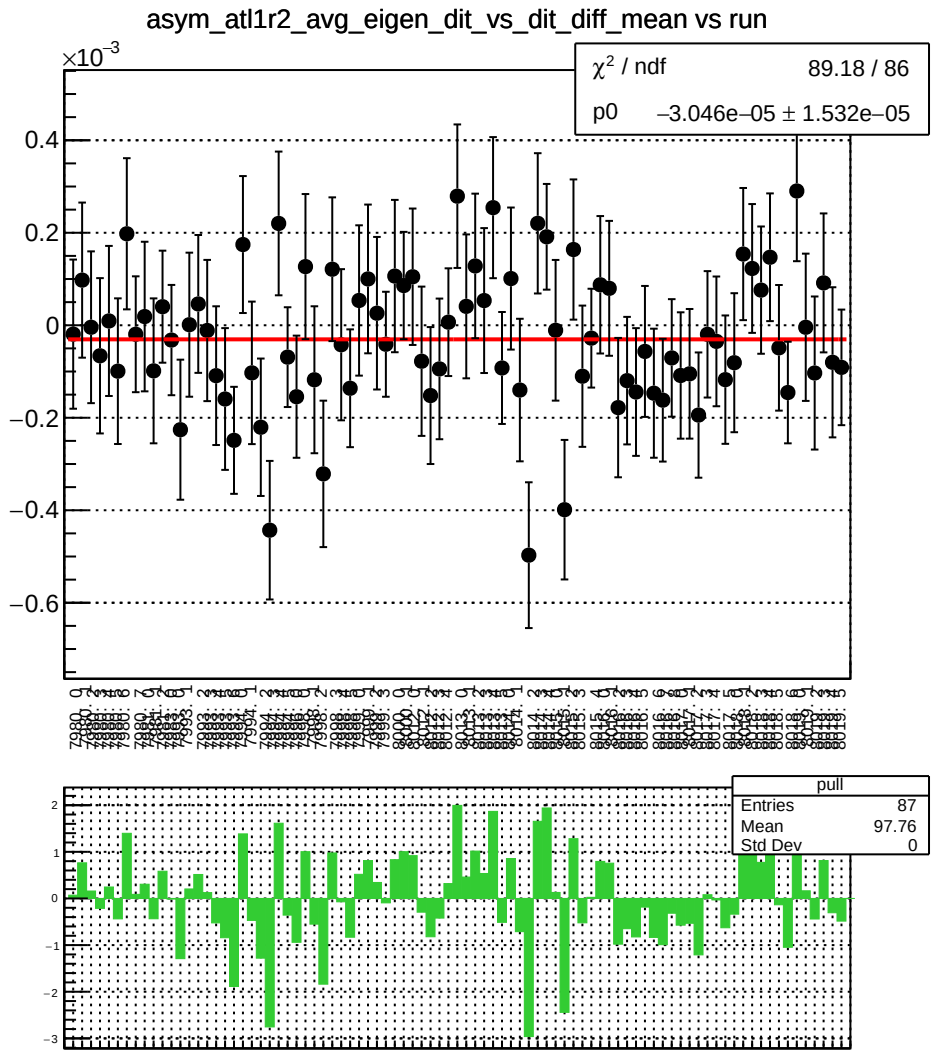

pull1D
Entries 87
Mean 0.02487
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

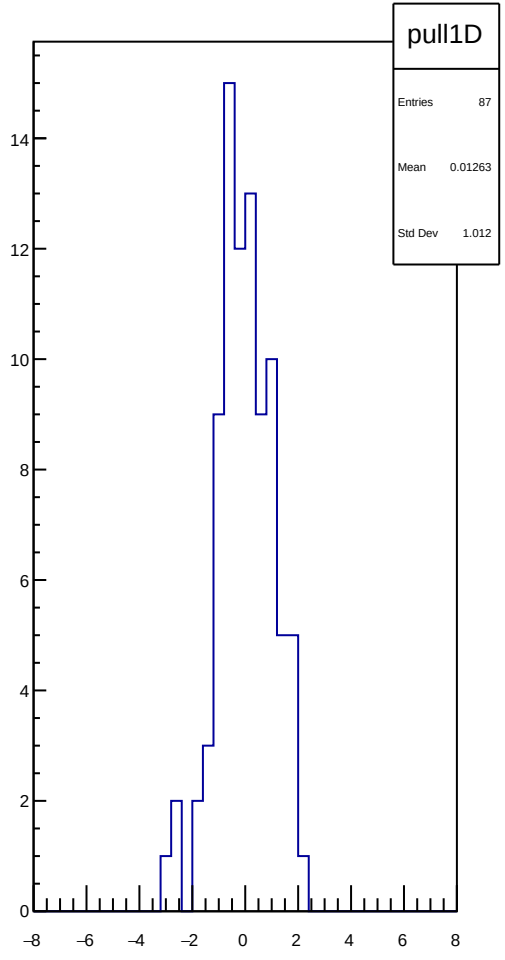

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.312e+05 / 86
p0 261.6 ± 0.205
1400
1200
1000
800
600
400
200

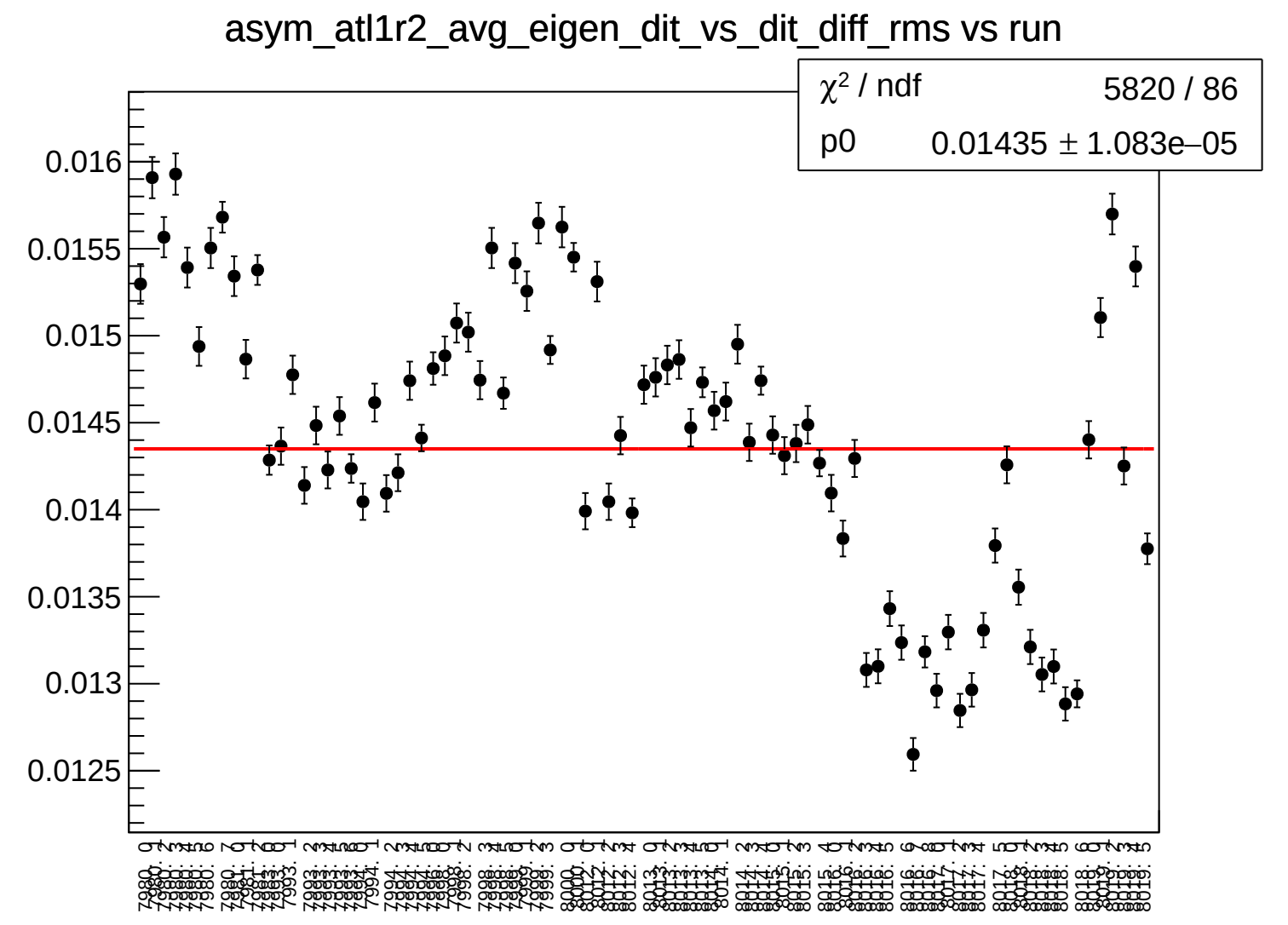

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.63 / 86
p0 0.03298 ± 0.2899
30
20
10
0
−10
pull
Entries 87
Mean −48.02
Std Dev 0
2
1
0
−1
−2

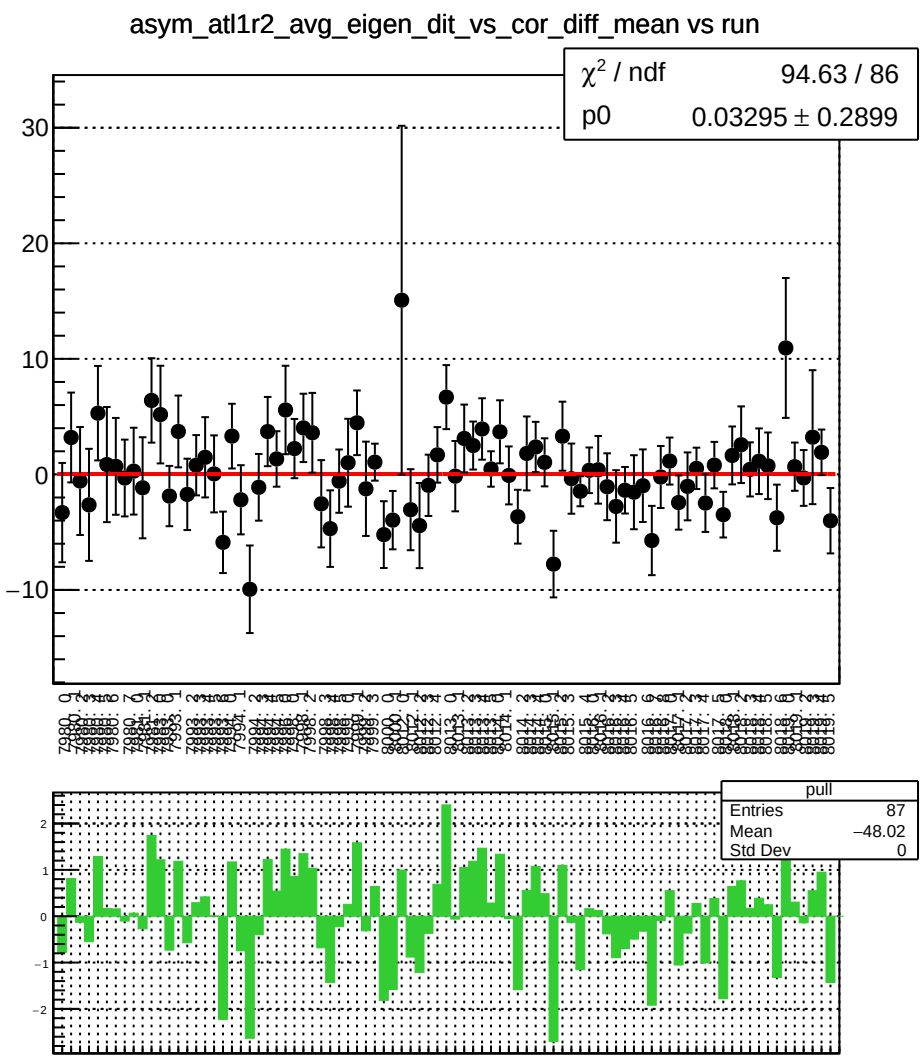

pull1D
Entries 87
Mean 0.02487
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

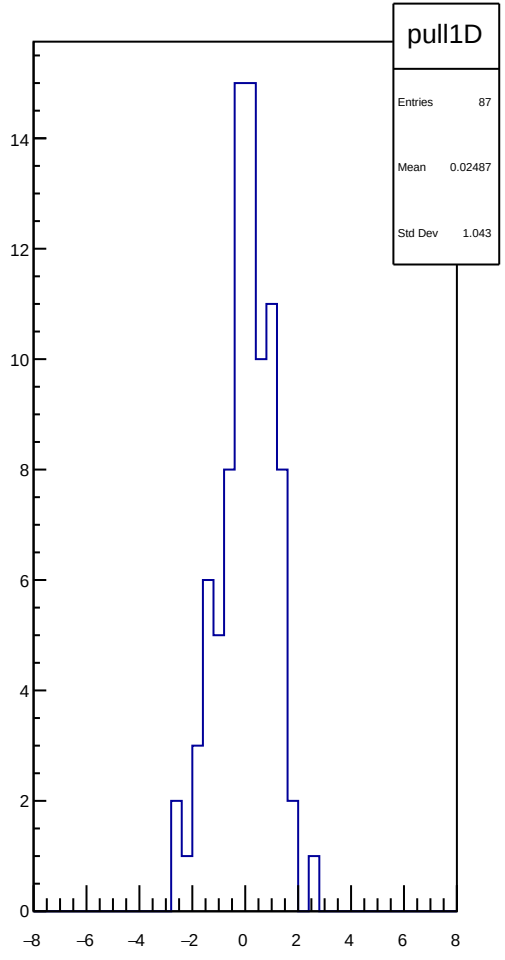

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.312e+05 / 86
p0 261.6 ± 0.205
1400
1200
1000
800
600
400
200

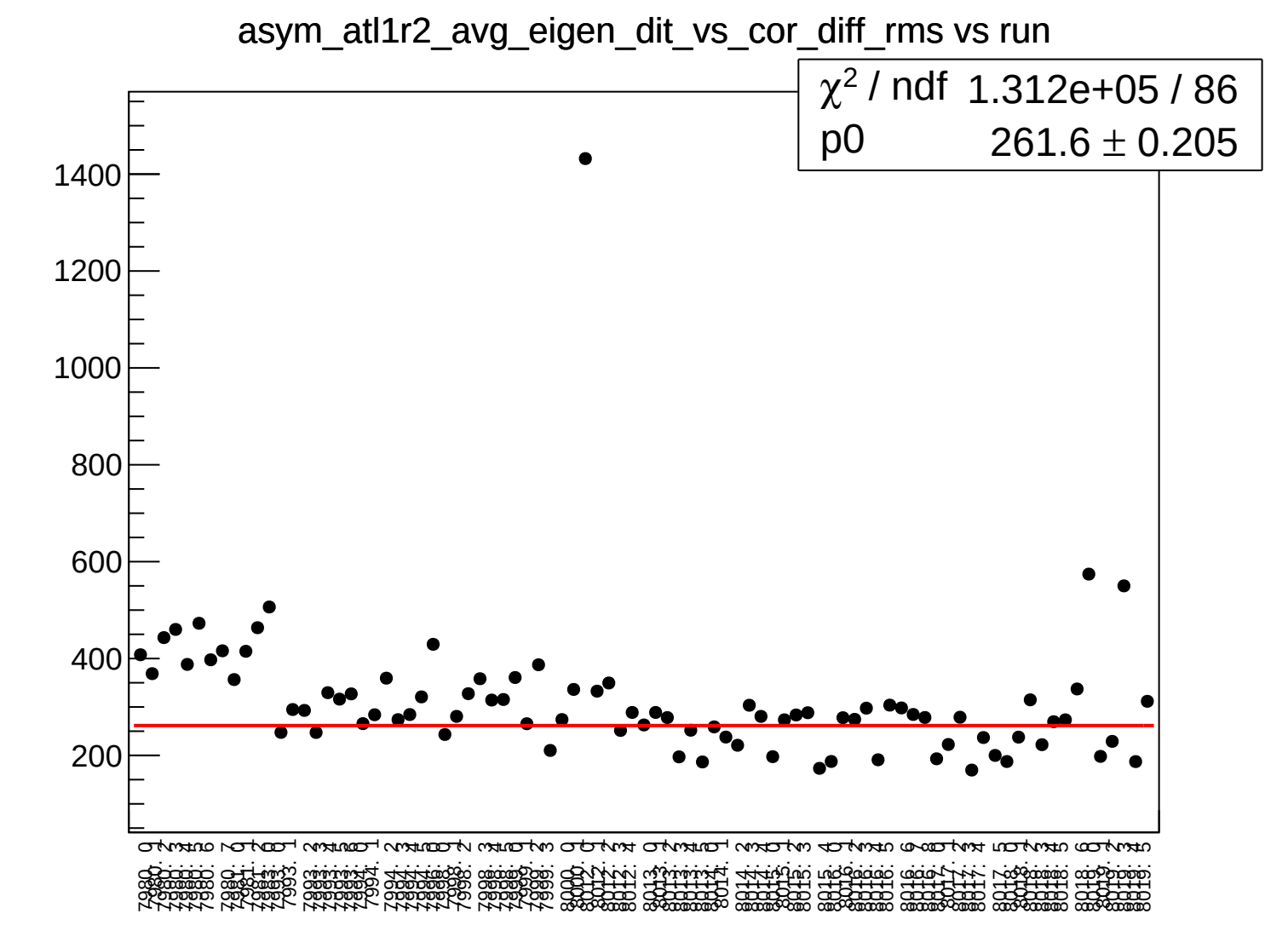

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.18 / 86
p0 −3.046e−05 ± 1.532e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 87
Mean 97.76
Std Dev 0
2
1
0
−1
−2
−3

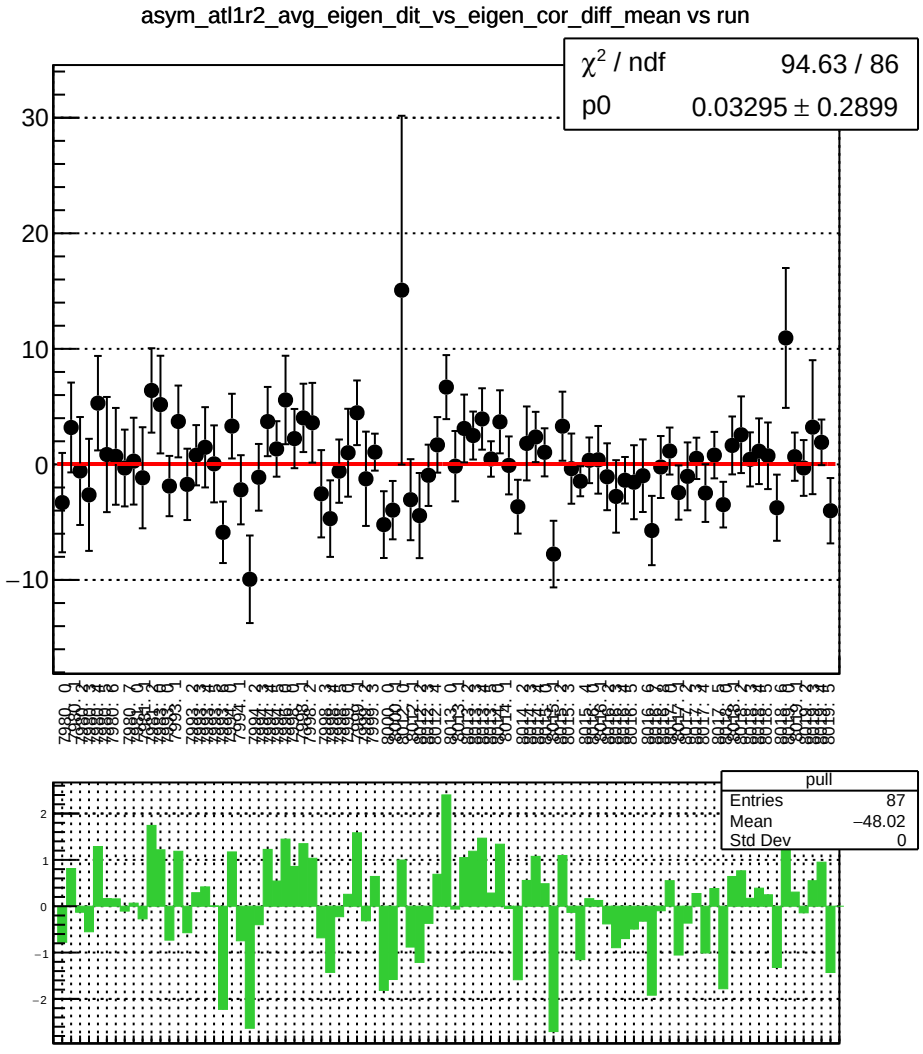

pull1D
Entries 87
Mean 0.01263
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

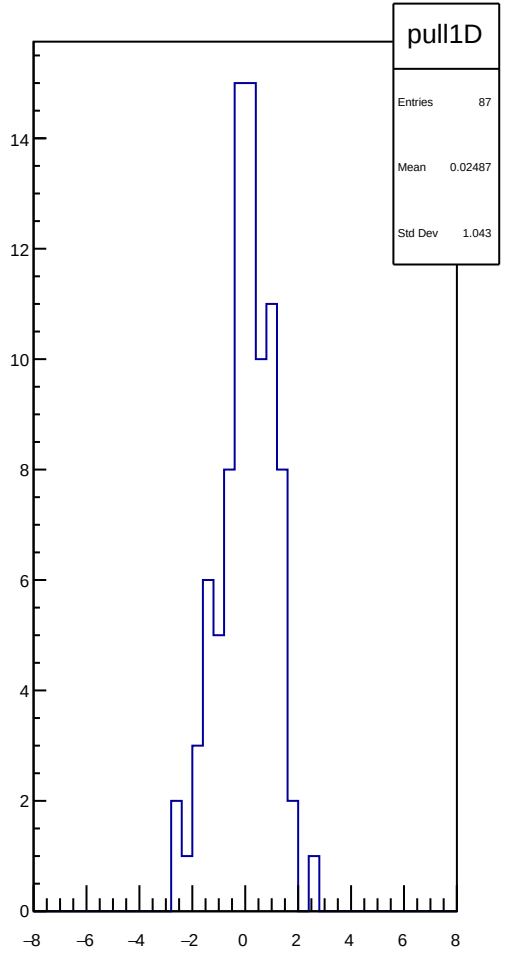

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5820 / 86
p0 0.01435 ± 1.083e−05
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125

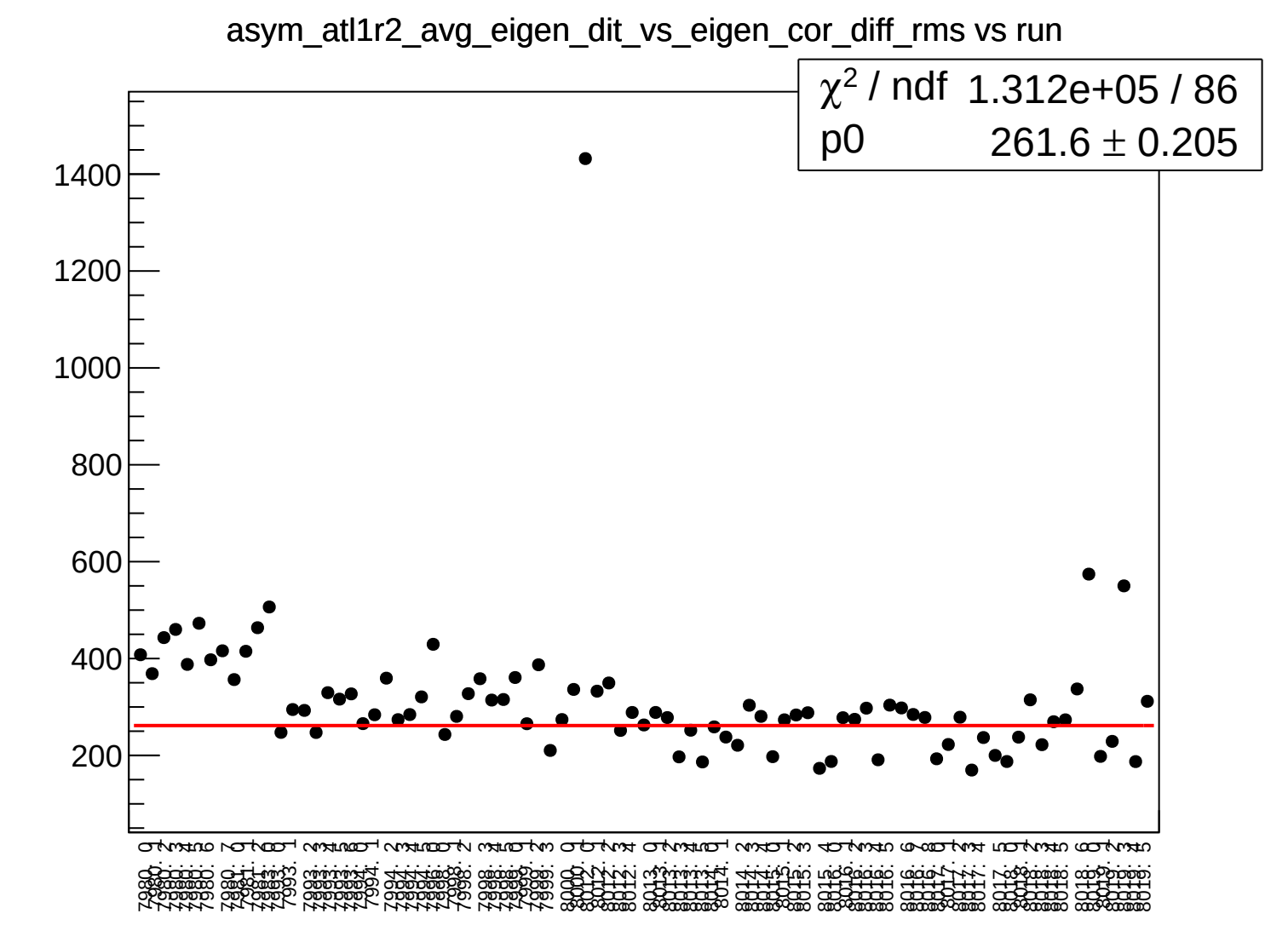

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.63 / 86
p0 0.03295 ± 0.2899
30
20
10
0
−10
pull
Entries 87
Mean −48.02
Std Dev 0
2
1
0
−1
−2

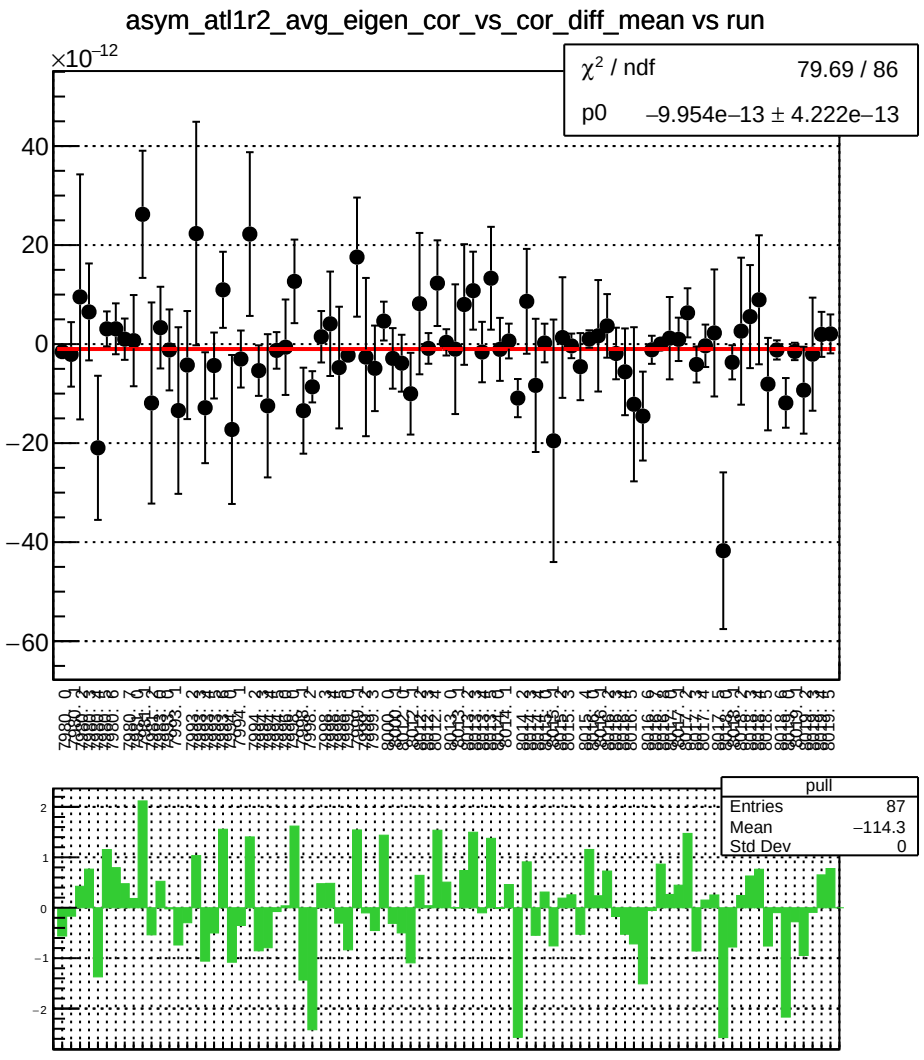

pull1D
Entries 87
Mean 0.02487
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

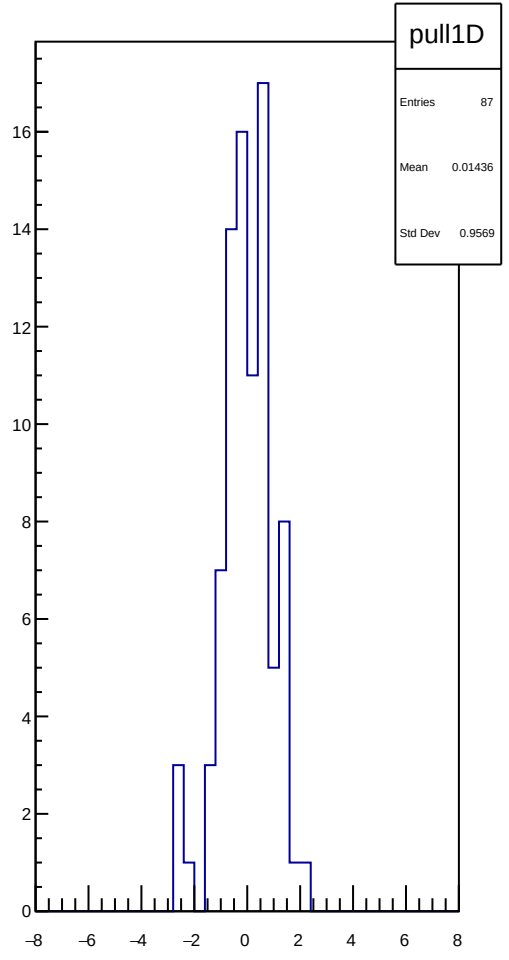

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.312e+05 / 86
p0 261.6 ± 0.205
1400
1200
1000
800
600
400
200

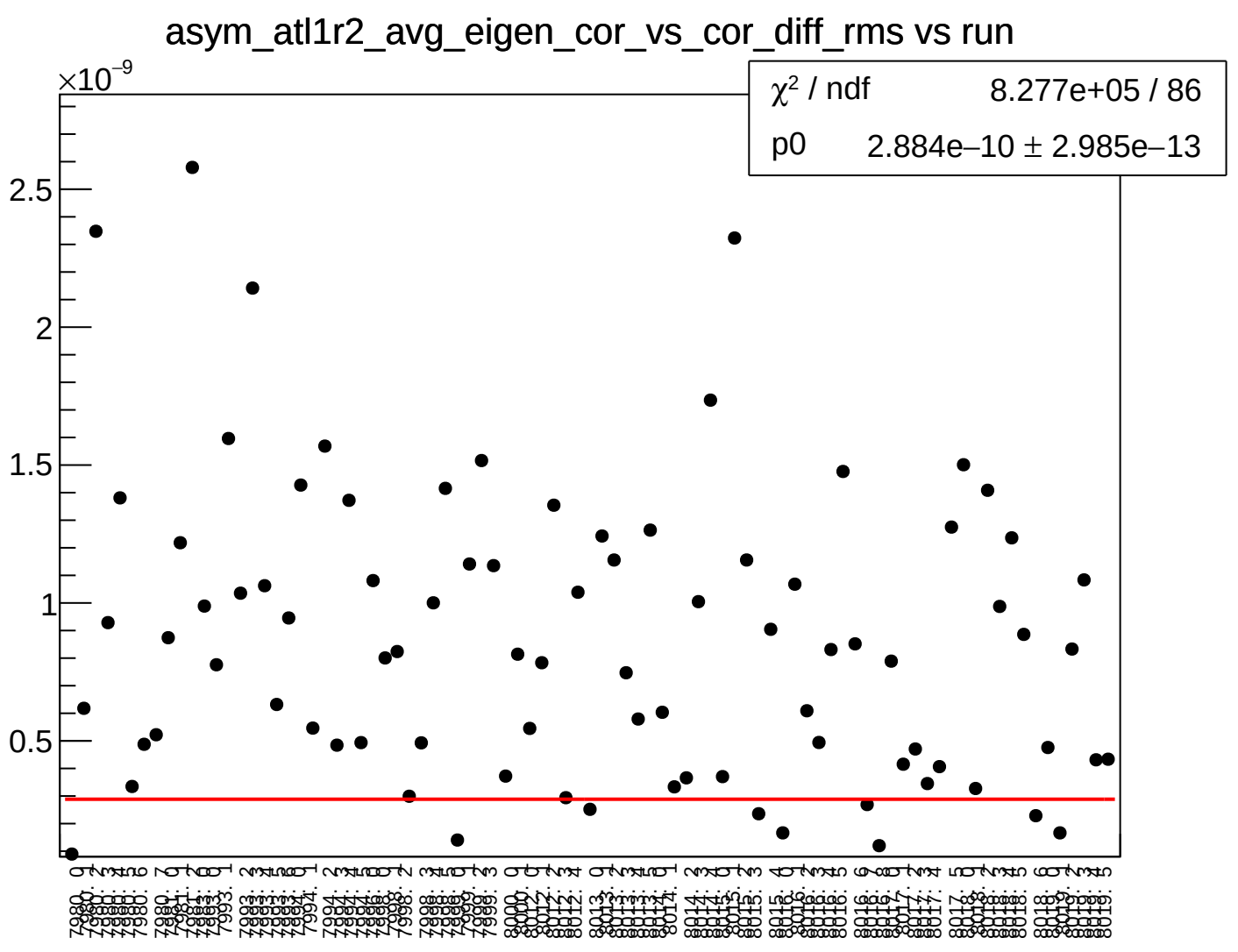

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.63 / 86
p0 0.03295 ± 0.2899
30
20
10
0
−10
pull
Entries 87
Mean −48.02
Std Dev 0
2
1
0
−1
−2

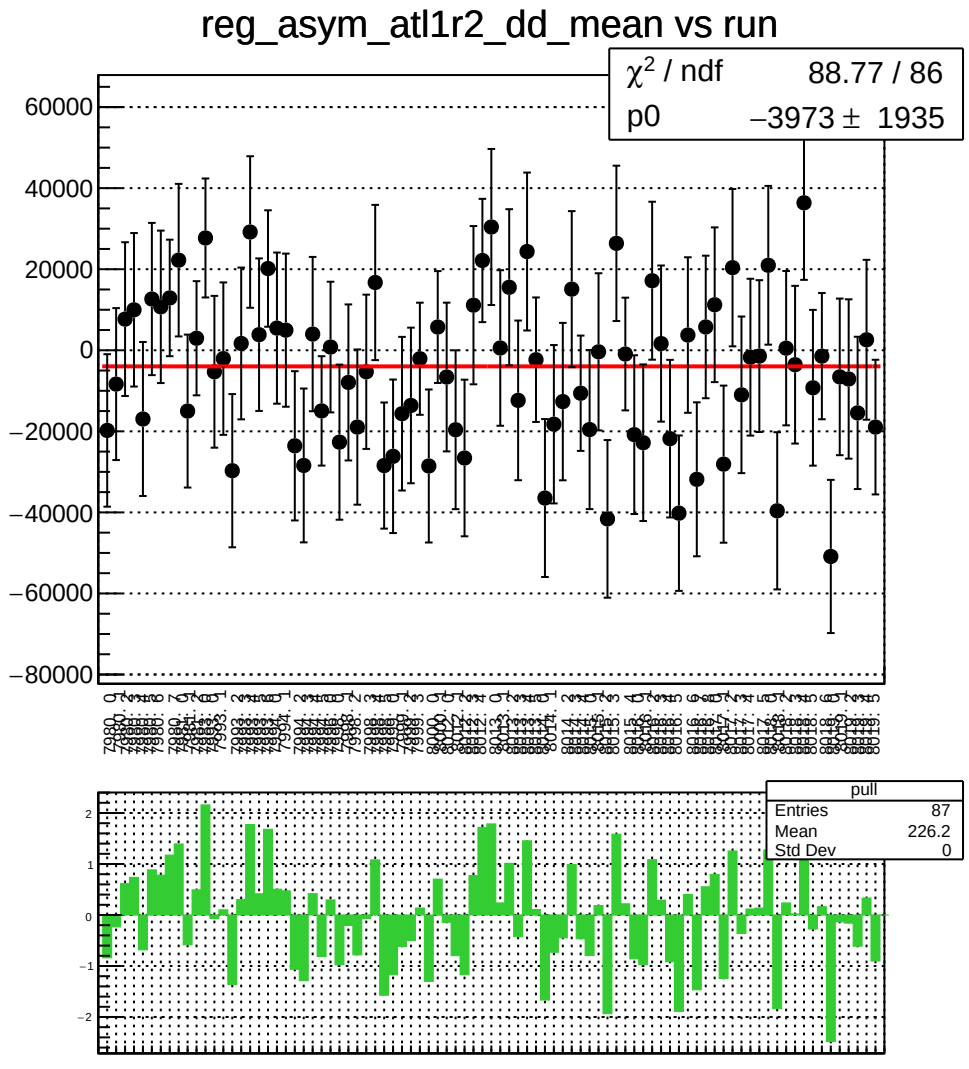

pull1D
Entries 87
Mean 0.02487
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

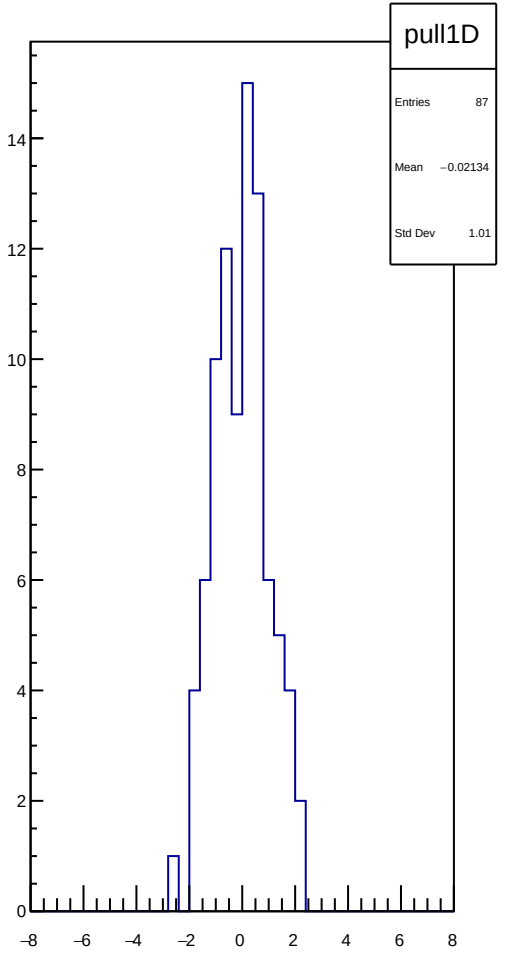

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.312e+05 / 86
p0 261.6 ± 0.205
1400
1200
1000
800
600
400
200

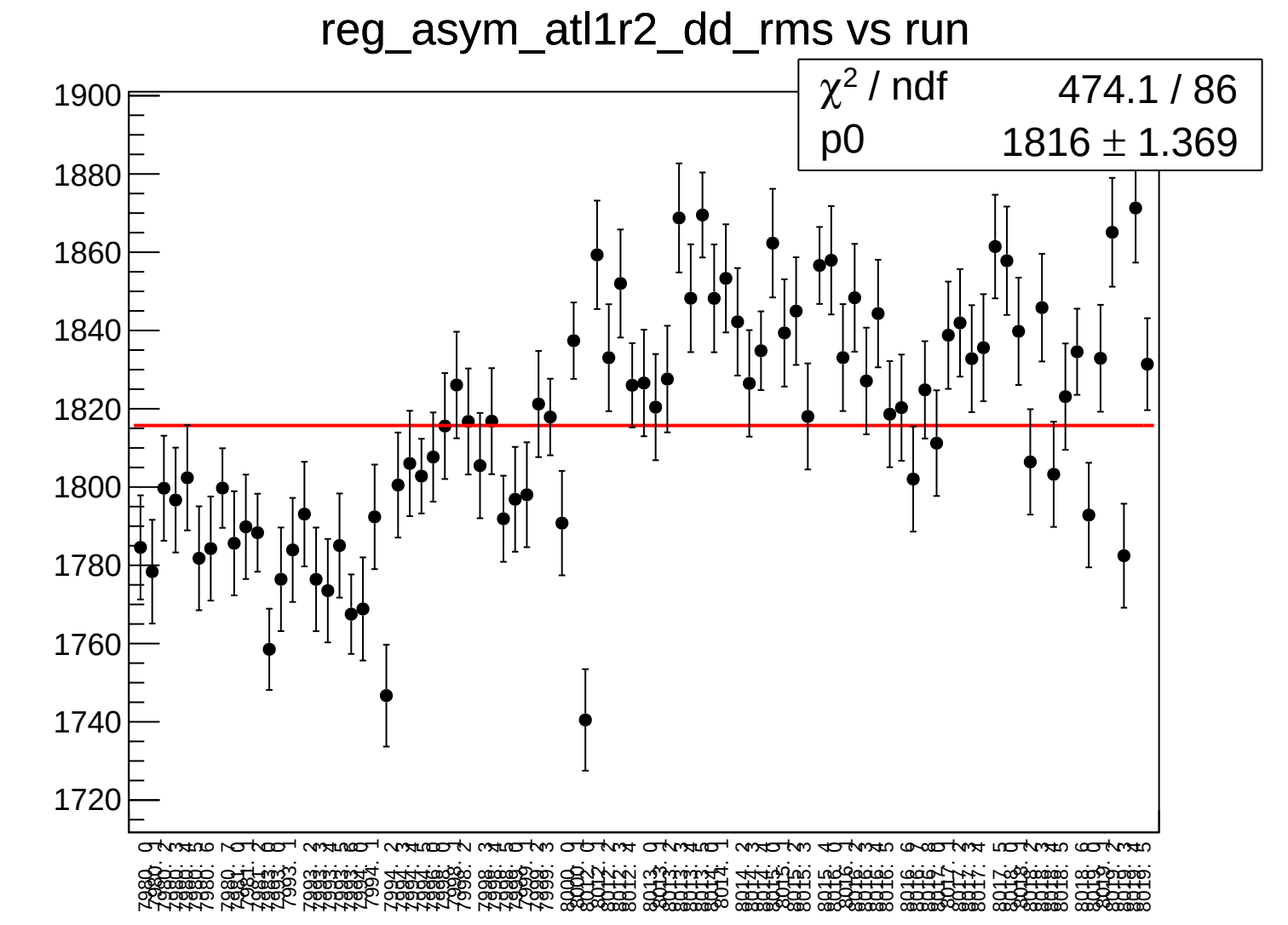

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.69 / 86
p0 −9.954e−13 ± 4.222e−13
40
20
0
−20
−40
−60
pull
Entries 87
Mean −114.3
Std Dev 0
2
1
0
−1
−2

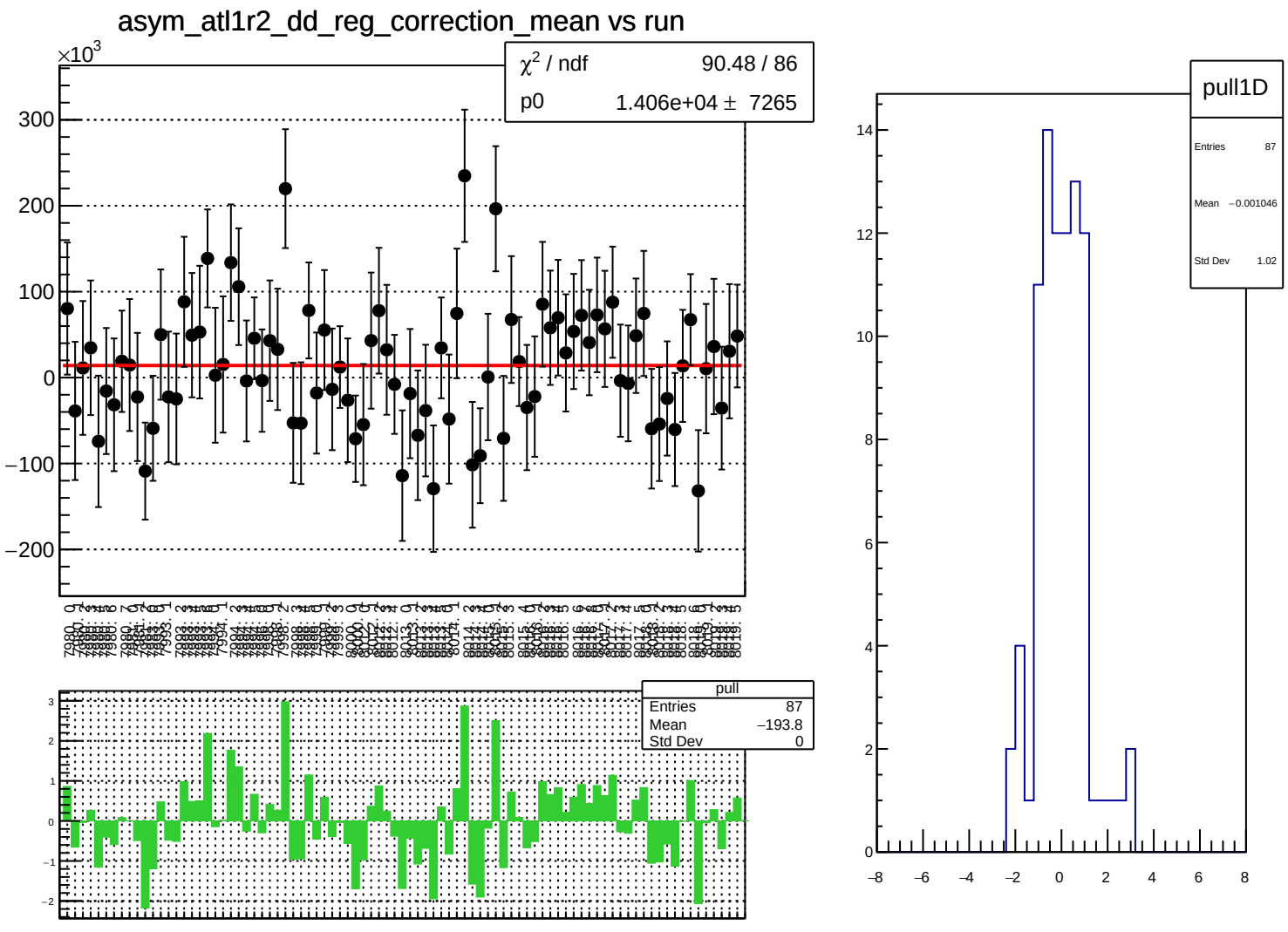

pull1D
Entries 87
Mean 0.01436
Std Dev 0.9569
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

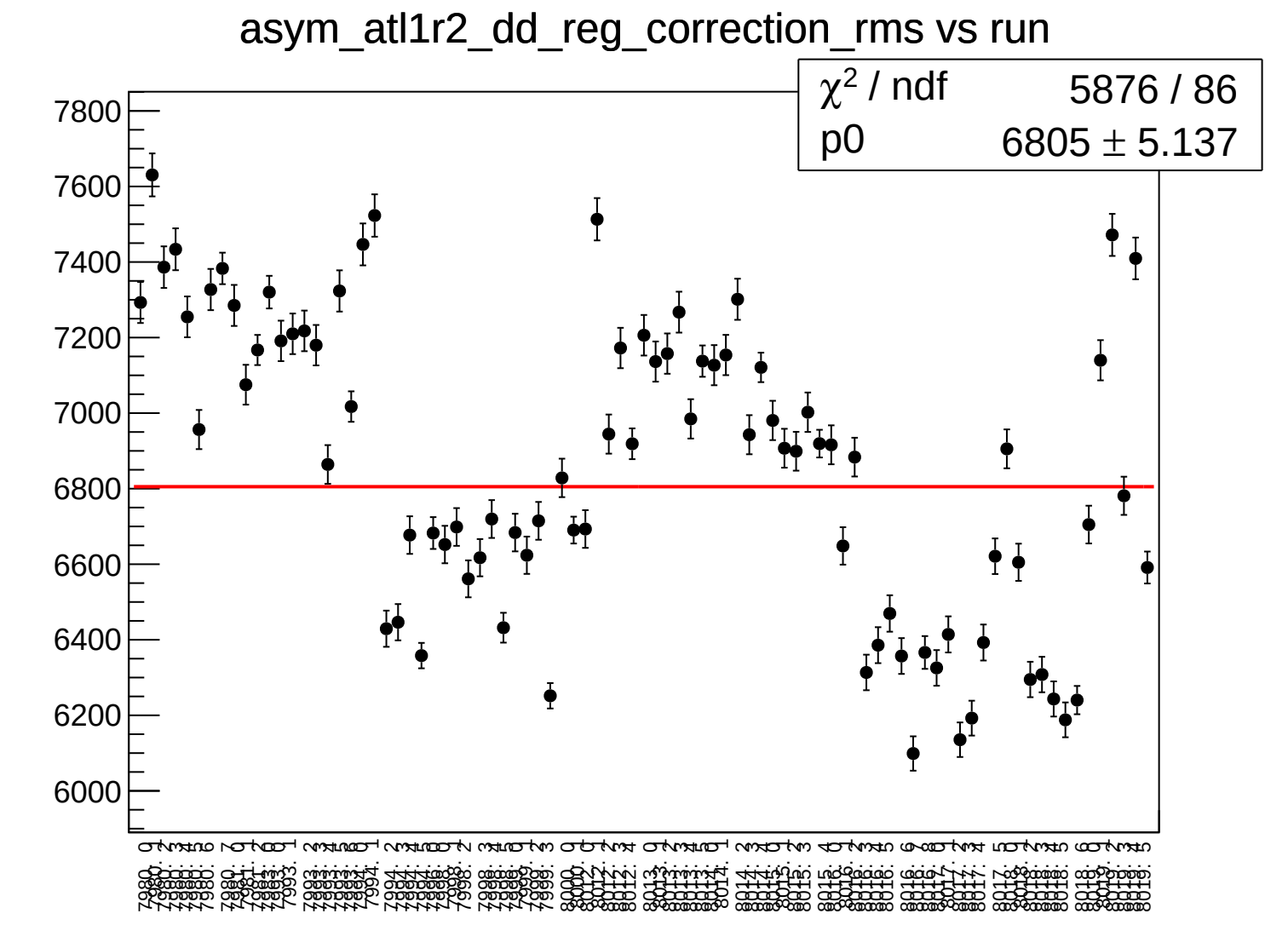

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.277e+05 / 86
p0 2.884e−10 ± 2.985e−13
2.5
2
1.5
1
0.5

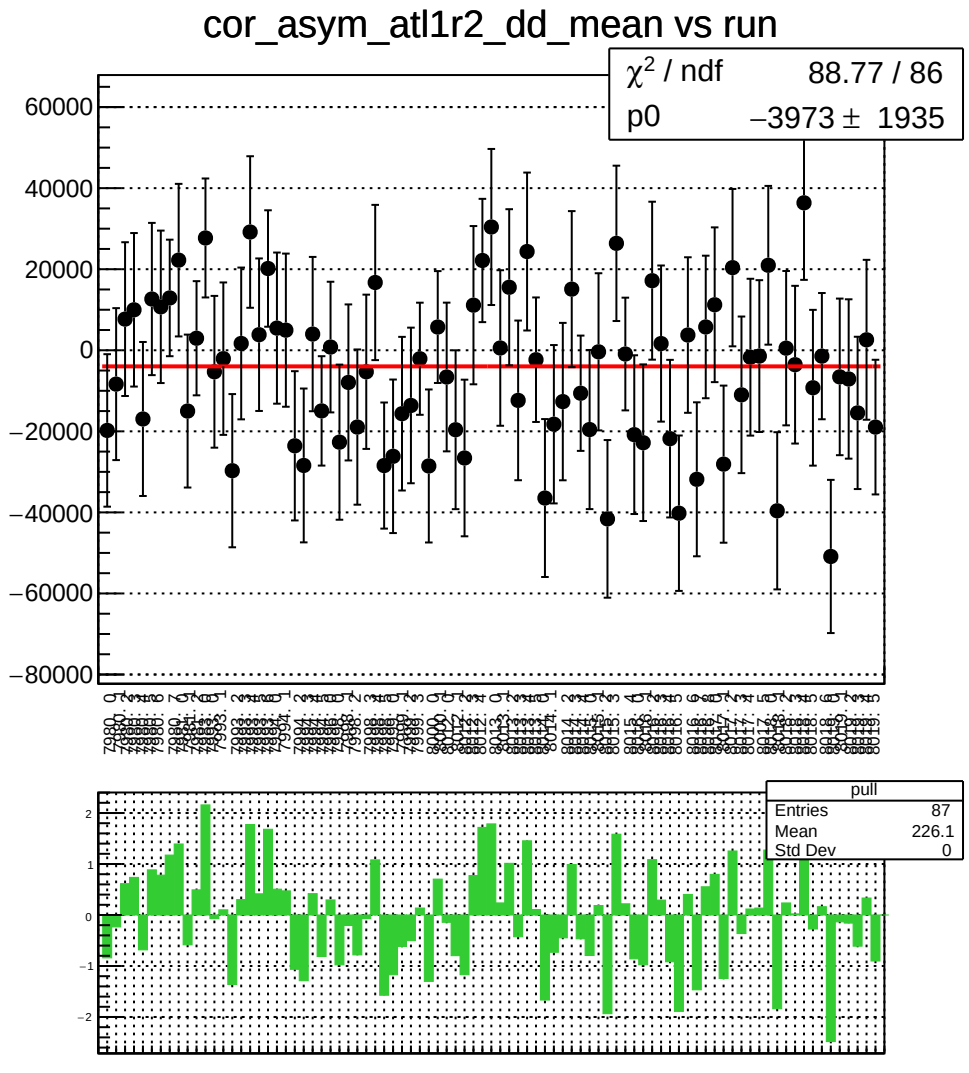

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 88.77 / 86
p0 −3973 ± 1935
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 226.2
Std Dev 0
2
1
0
−1
−2

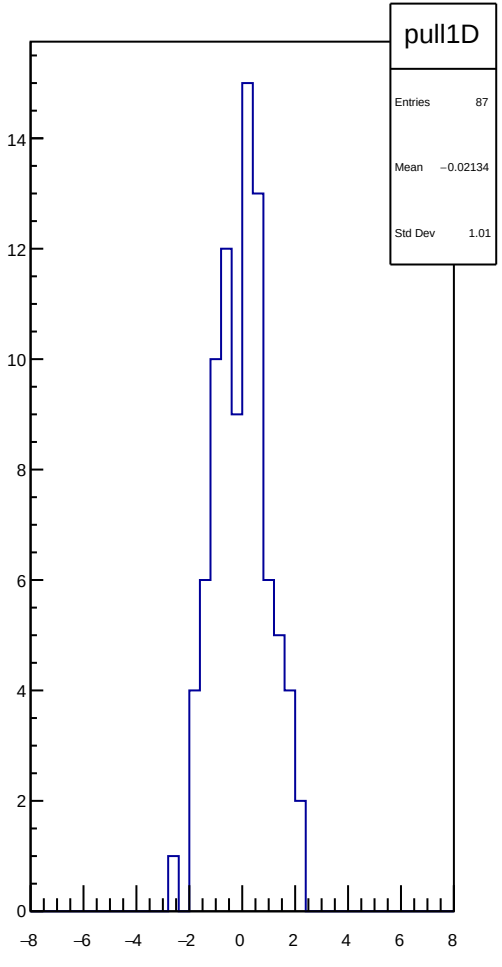

pull1D
Entries 87
Mean −0.02134
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

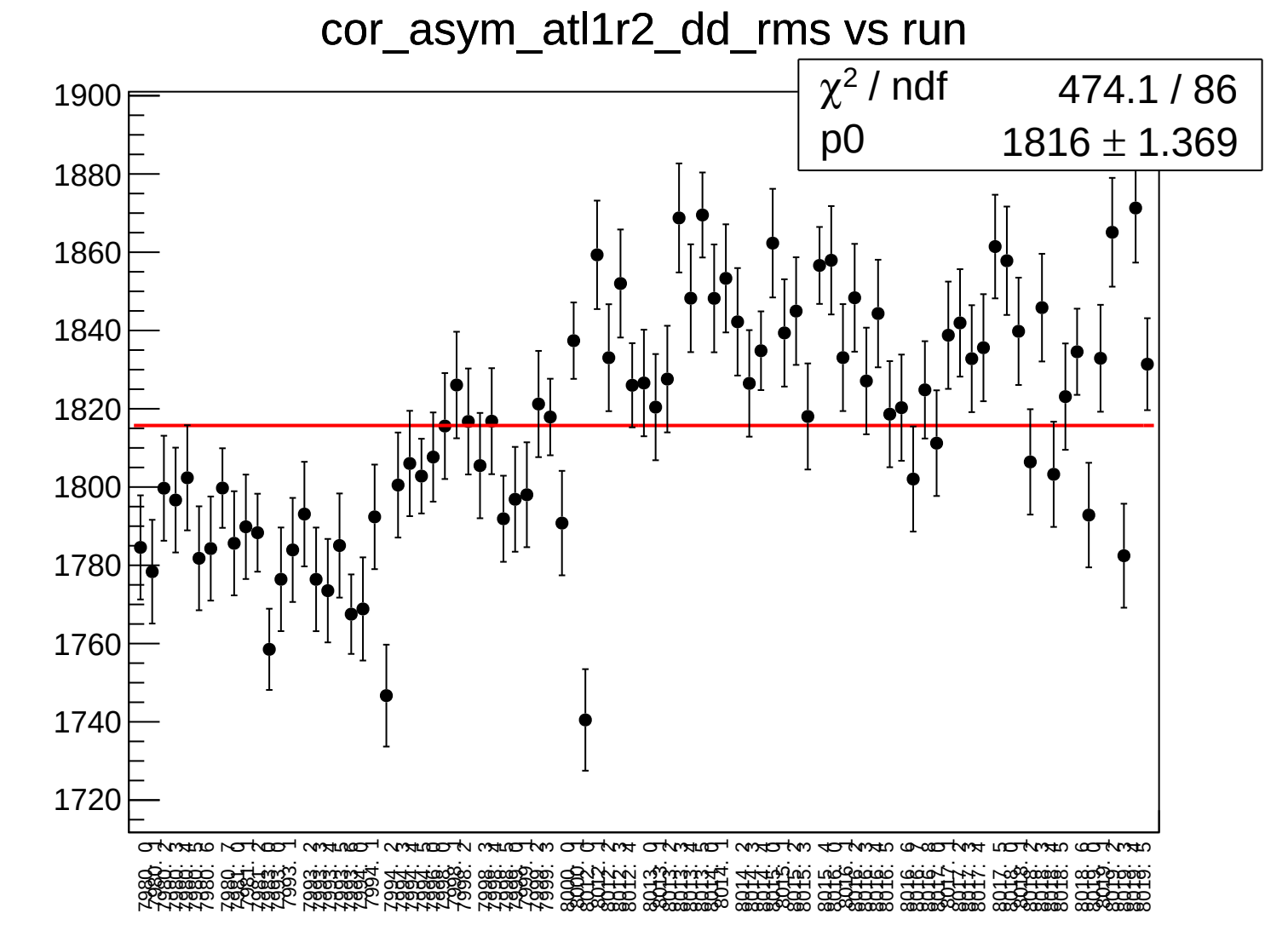

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 474.1 / 86
p0 1816 ± 1.369
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

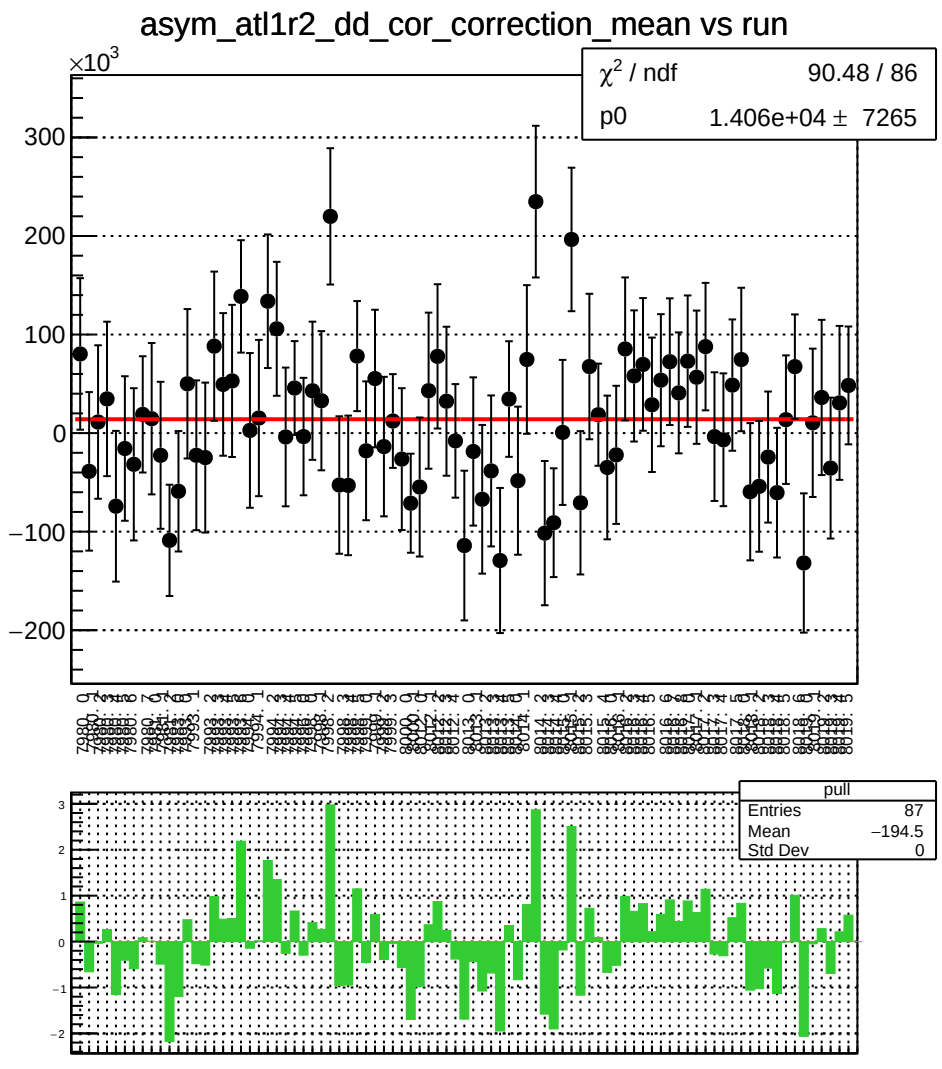

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 90.48 / 86
p0 1.406e+04 ± 7265
300
200
100
0
−100
−200
pull
Entries 87
Mean −193.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.001046
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

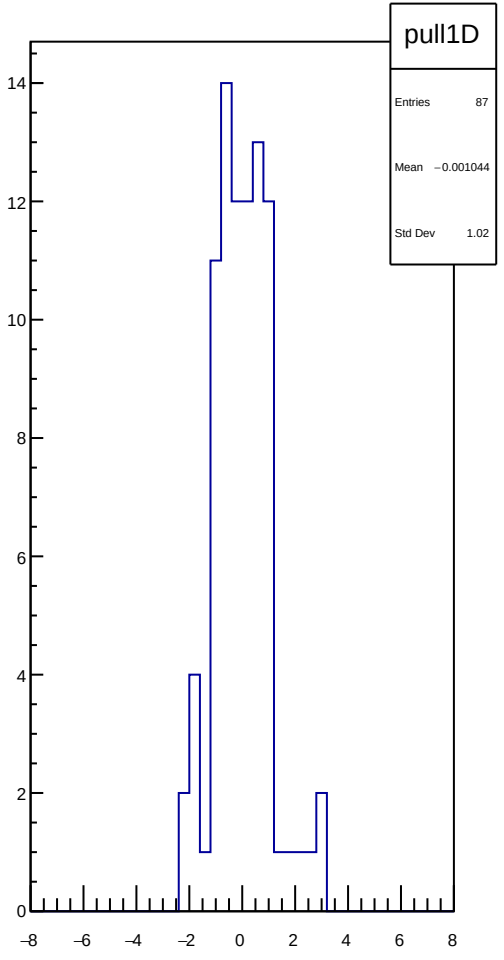

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 5876 / 86
p0 6805 ± 5.137
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

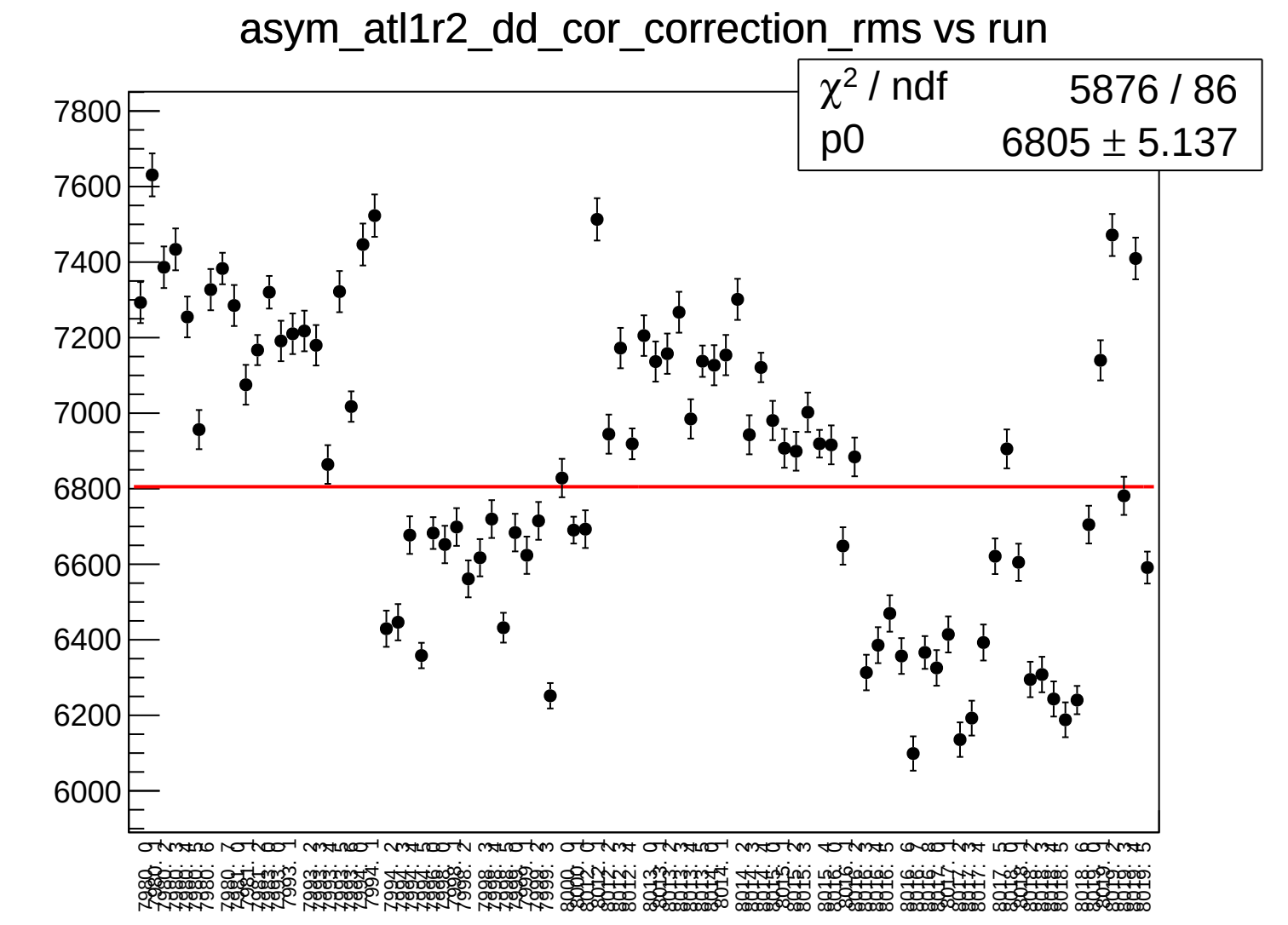

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 88.77 / 86
p0 −3973 ± 1935
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 226.1
Std Dev 0
2
1
0
−1
−2

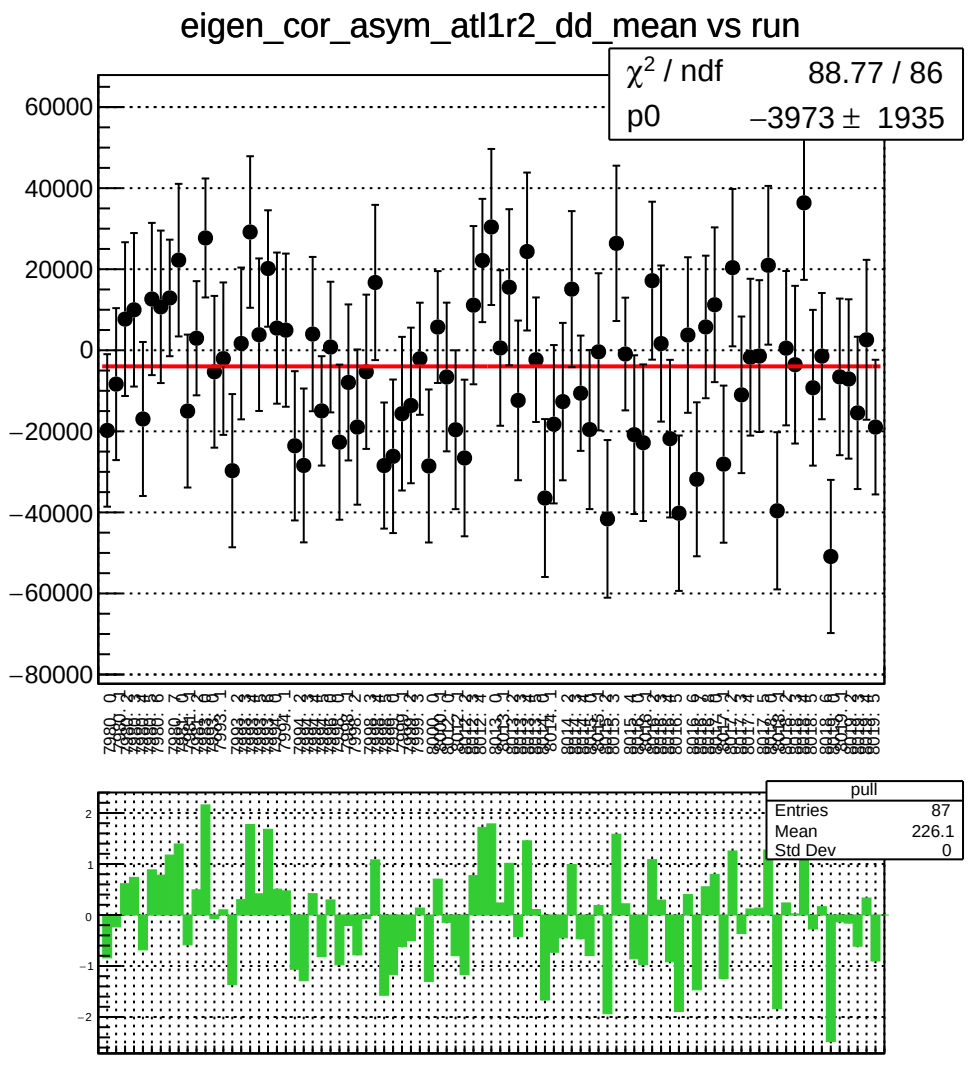

pull1D
Entries 87
Mean −0.02134
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

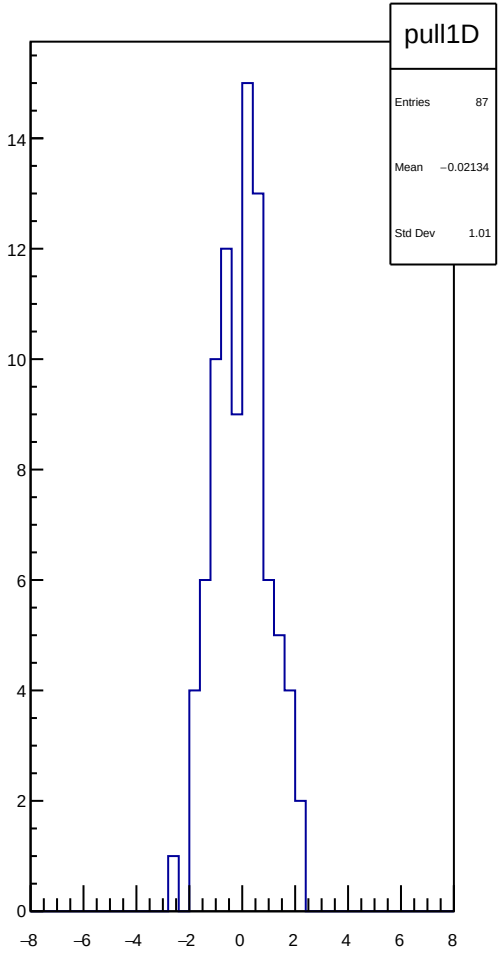

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 474.1 / 86
p0 1816 ± 1.369
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

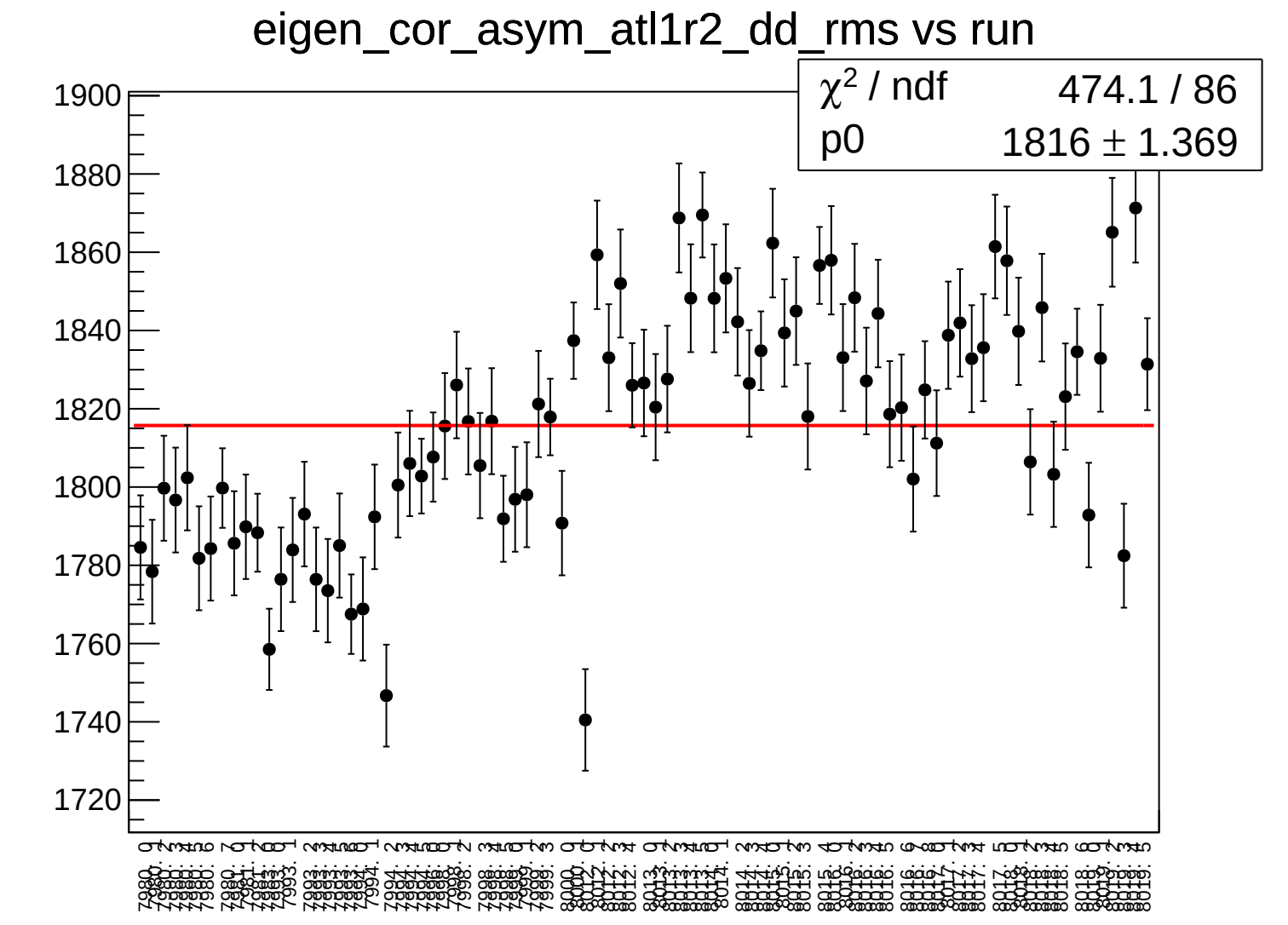

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 90.48 / 86
p0 1.406e+04 ± 7265
300
200
100
0
−100
−200
pull
Entries 87
Mean −194.5
Std Dev 0
3
2
1
0
−1
−2

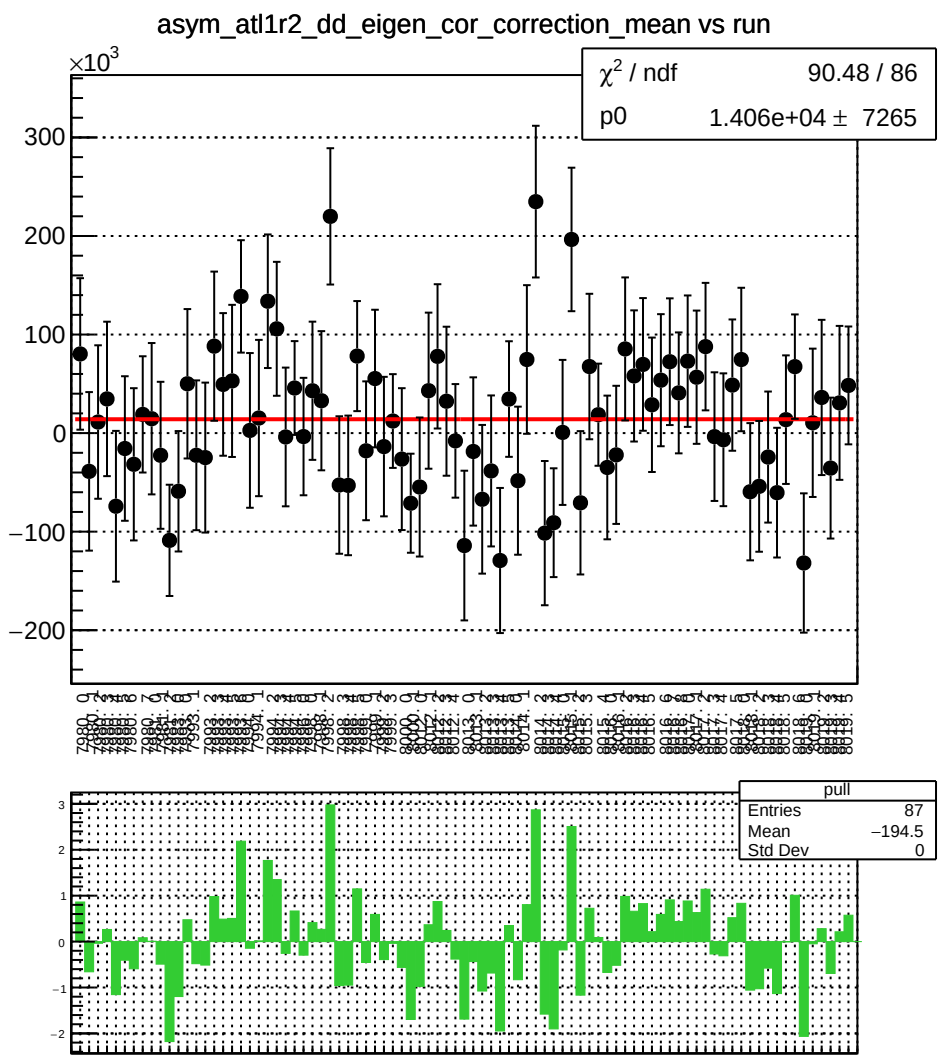

pull1D
Entries 87
Mean −0.001044
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

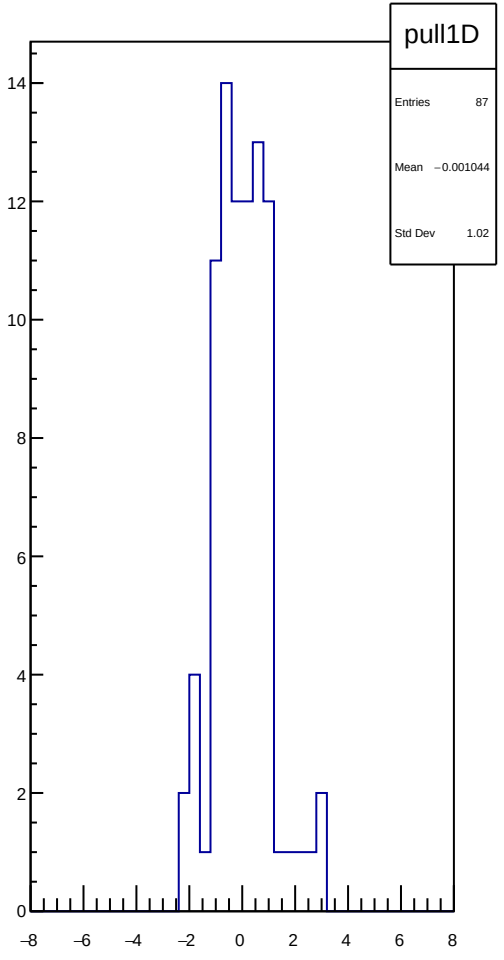

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 5876 / 86
p0 6805 ± 5.137
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

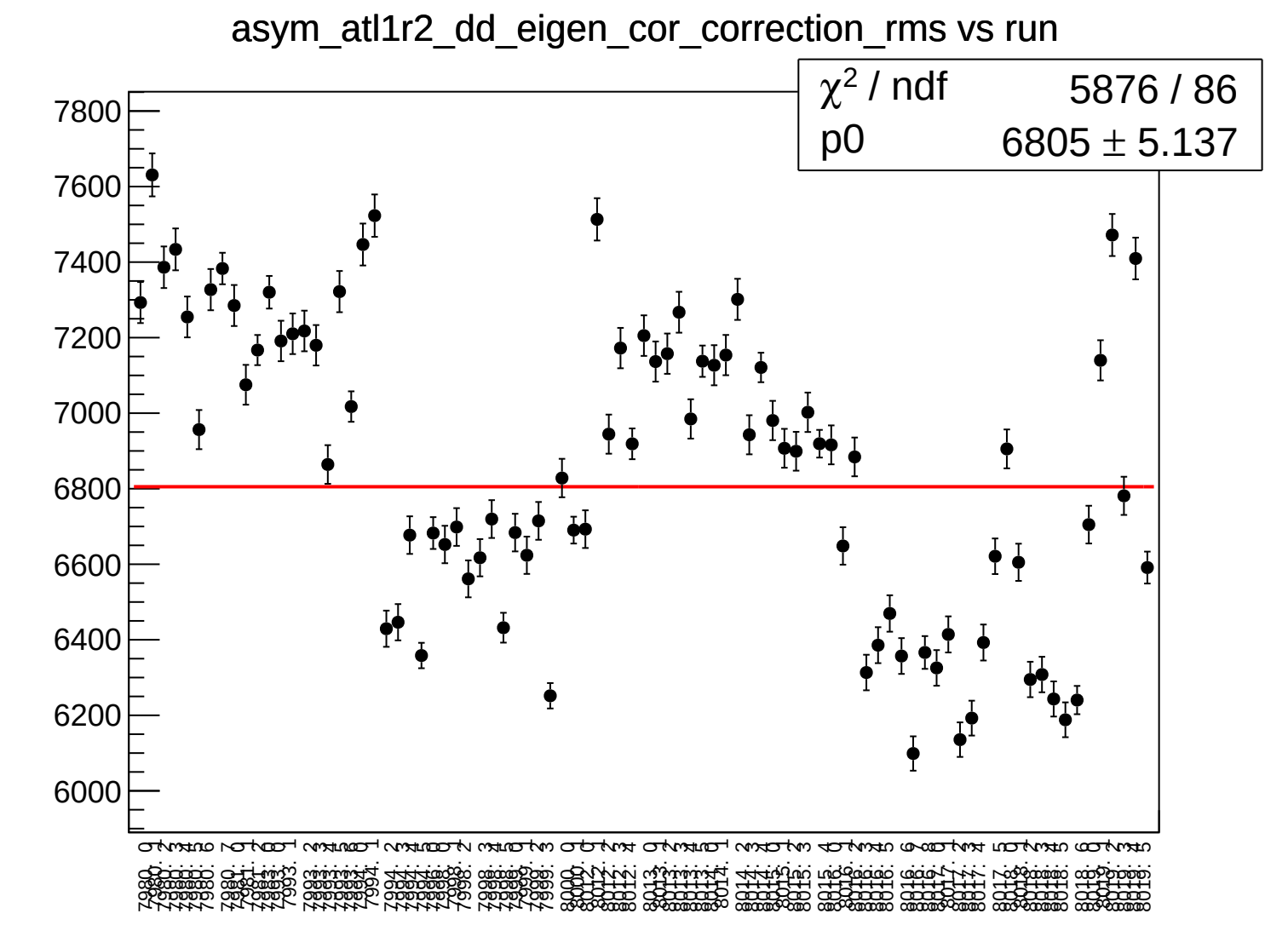

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 88.77 / 86
p0 −3973 ± 1935
pull
Entries 87
Mean 226.1
Std Dev 0

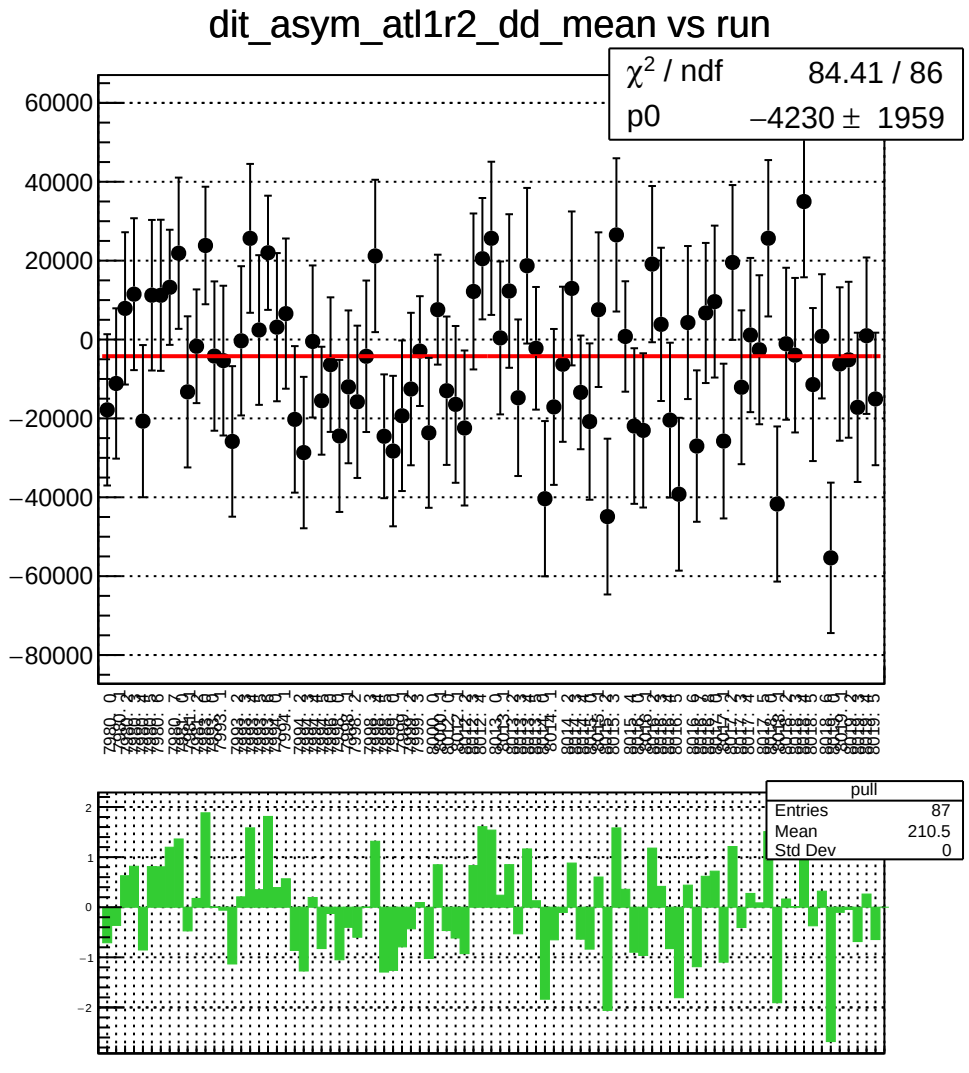

pull1D
Entries 87
Mean −0.02134
Std Dev 1.01

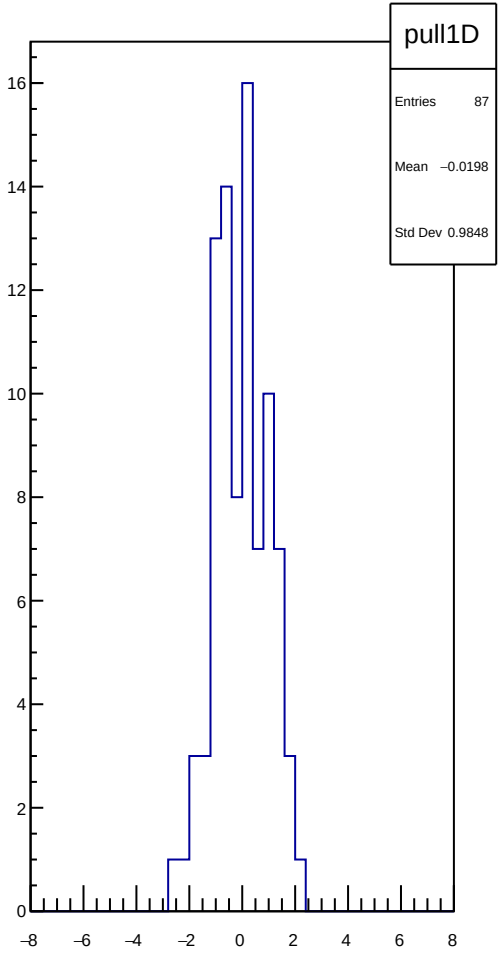

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 474.1 / 86
p0 1816 ± 1.369
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

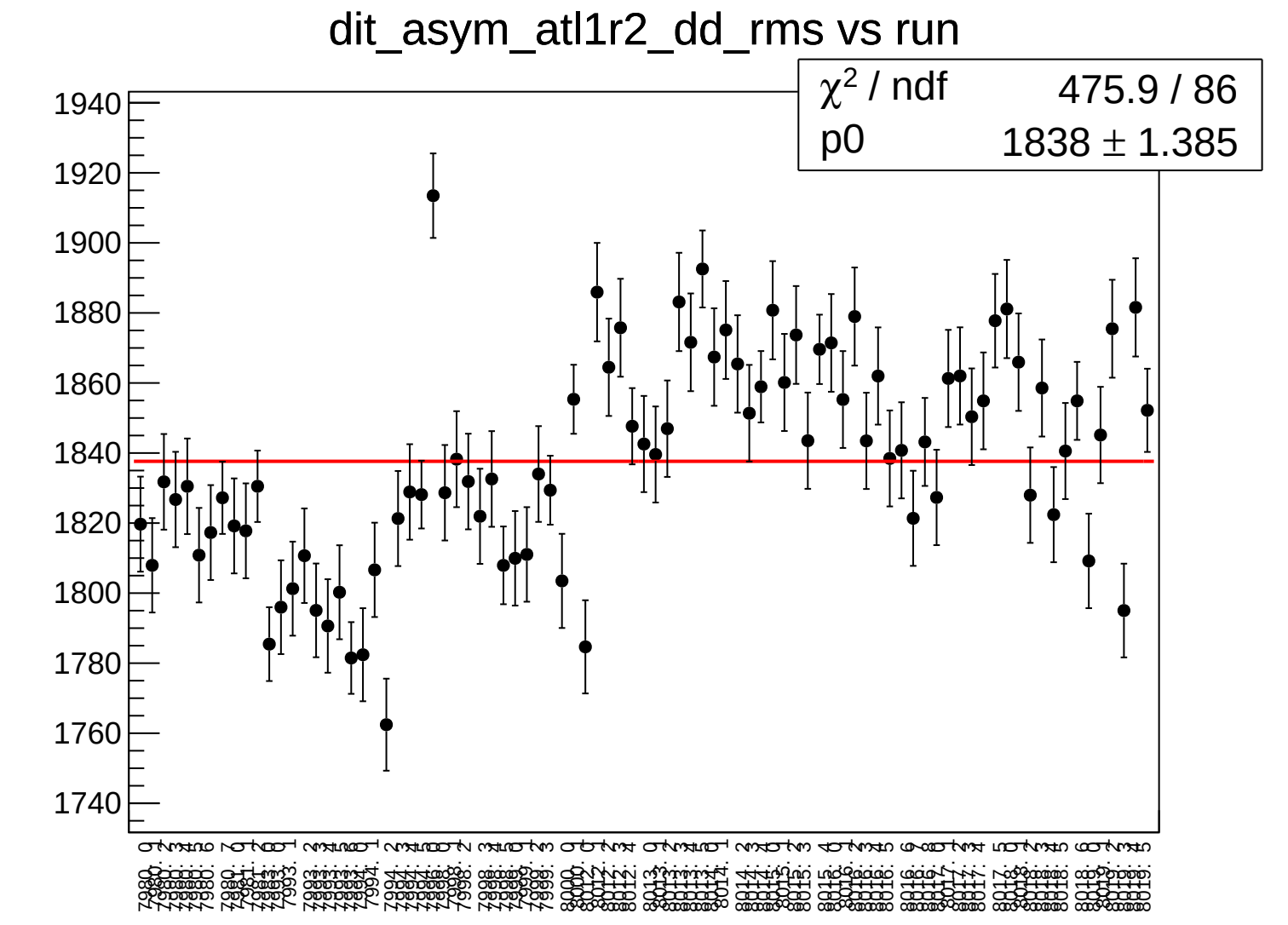

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.48 / 86
p0 1.406e+04 ± 7265
300
200
100
0
−100
−200
pull
Entries 87
Mean −194.5
Std Dev 0
3
2
1
0
−1
−2

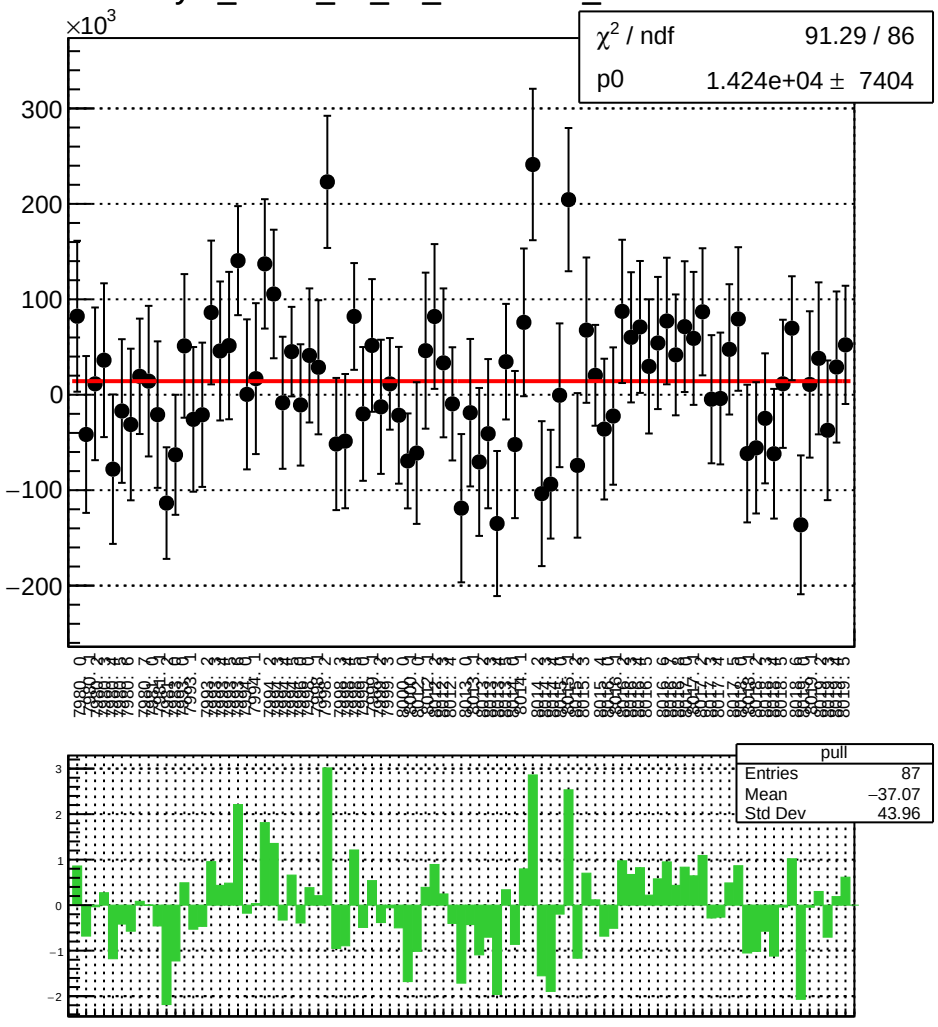

pull1D
Entries 87
Mean −0.001044
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

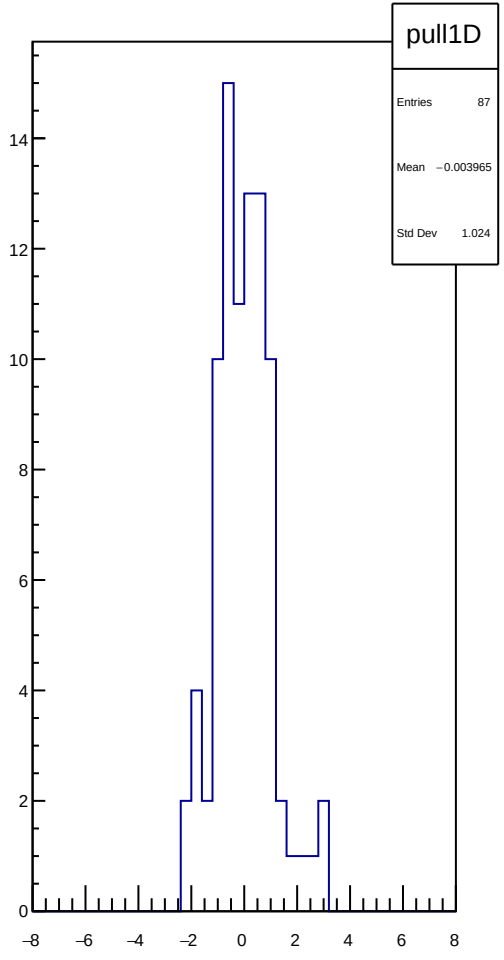

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5876 / 86
p0 6805 ± 5.137
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

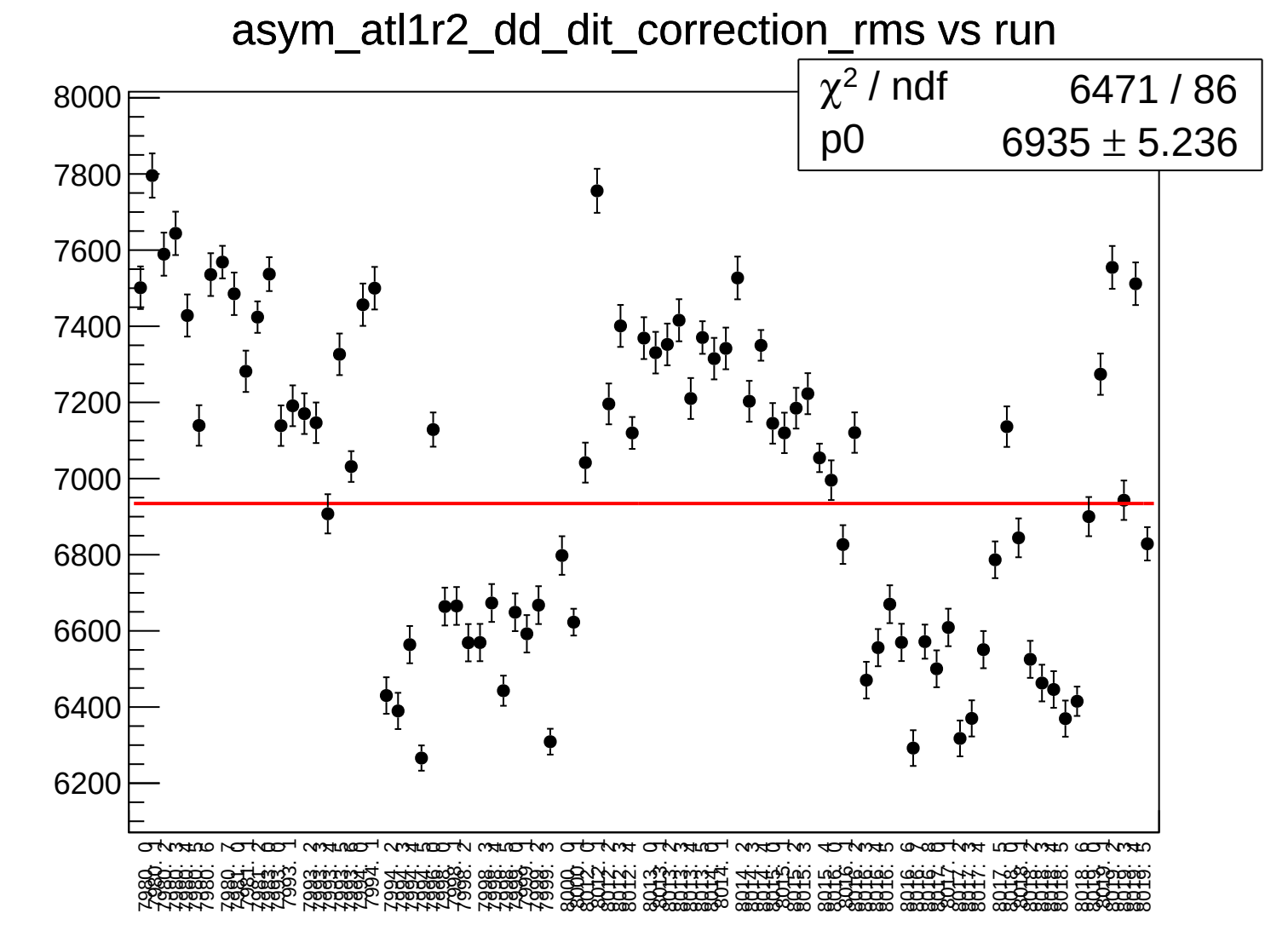

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 84.41 / 86
p0 −4230 ± 1959
pull
Entries 87
Mean 210.5
Std Dev 0

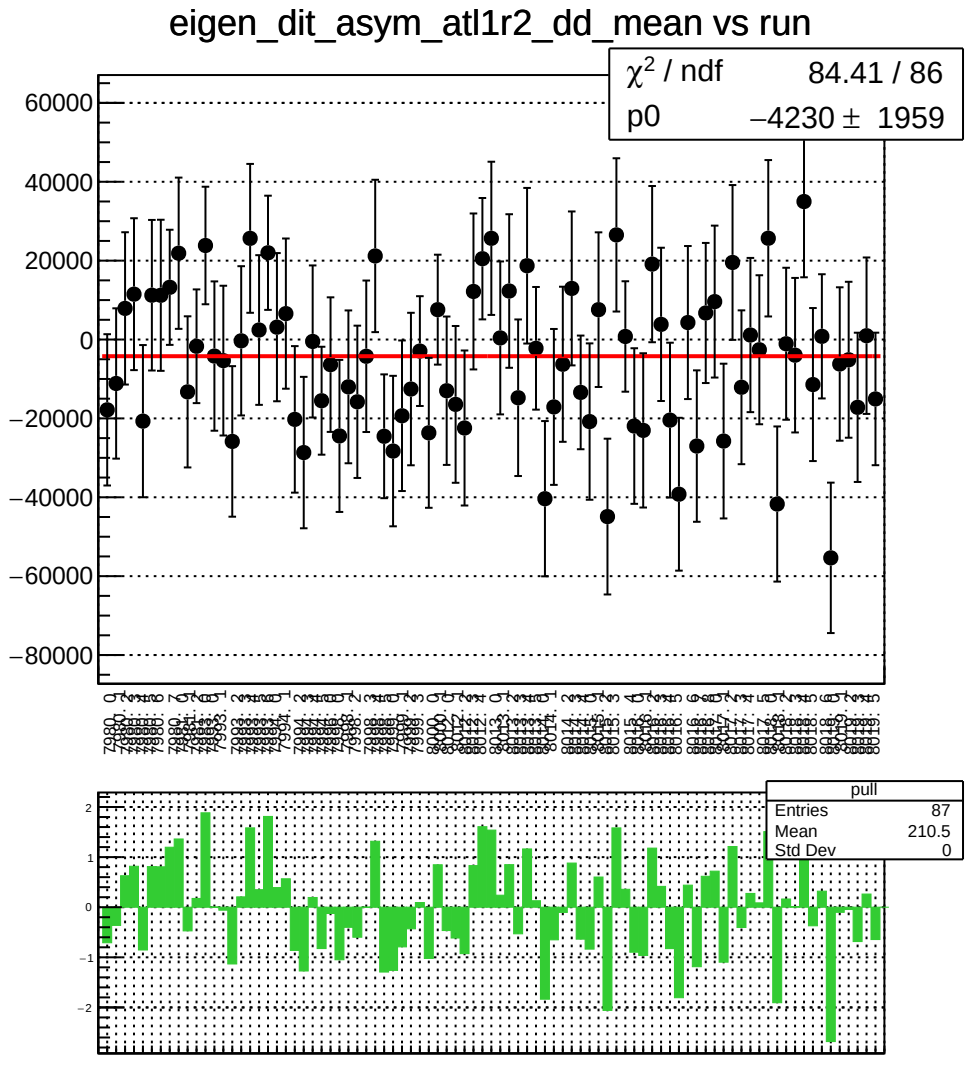

pull1D
Entries 87
Mean −0.0198
Std Dev 0.9848

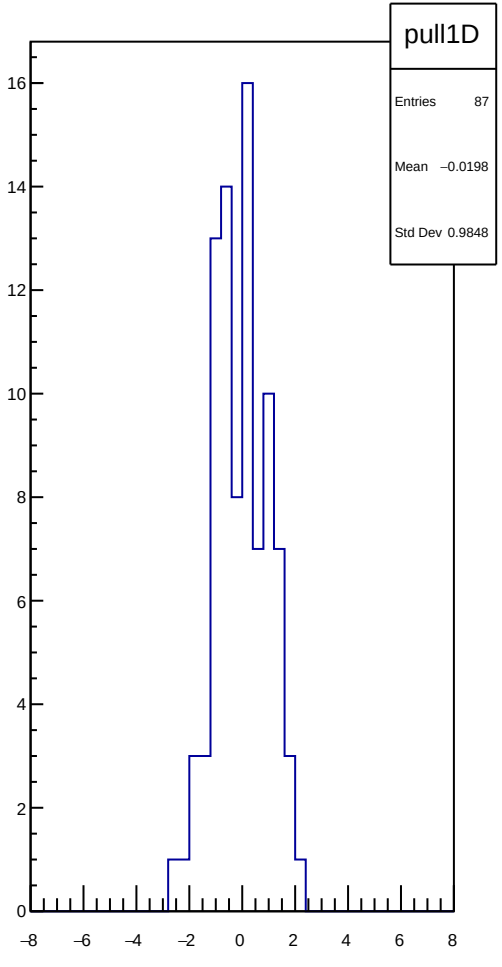

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 475.9 / 86
p0 1838 ± 1.385
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

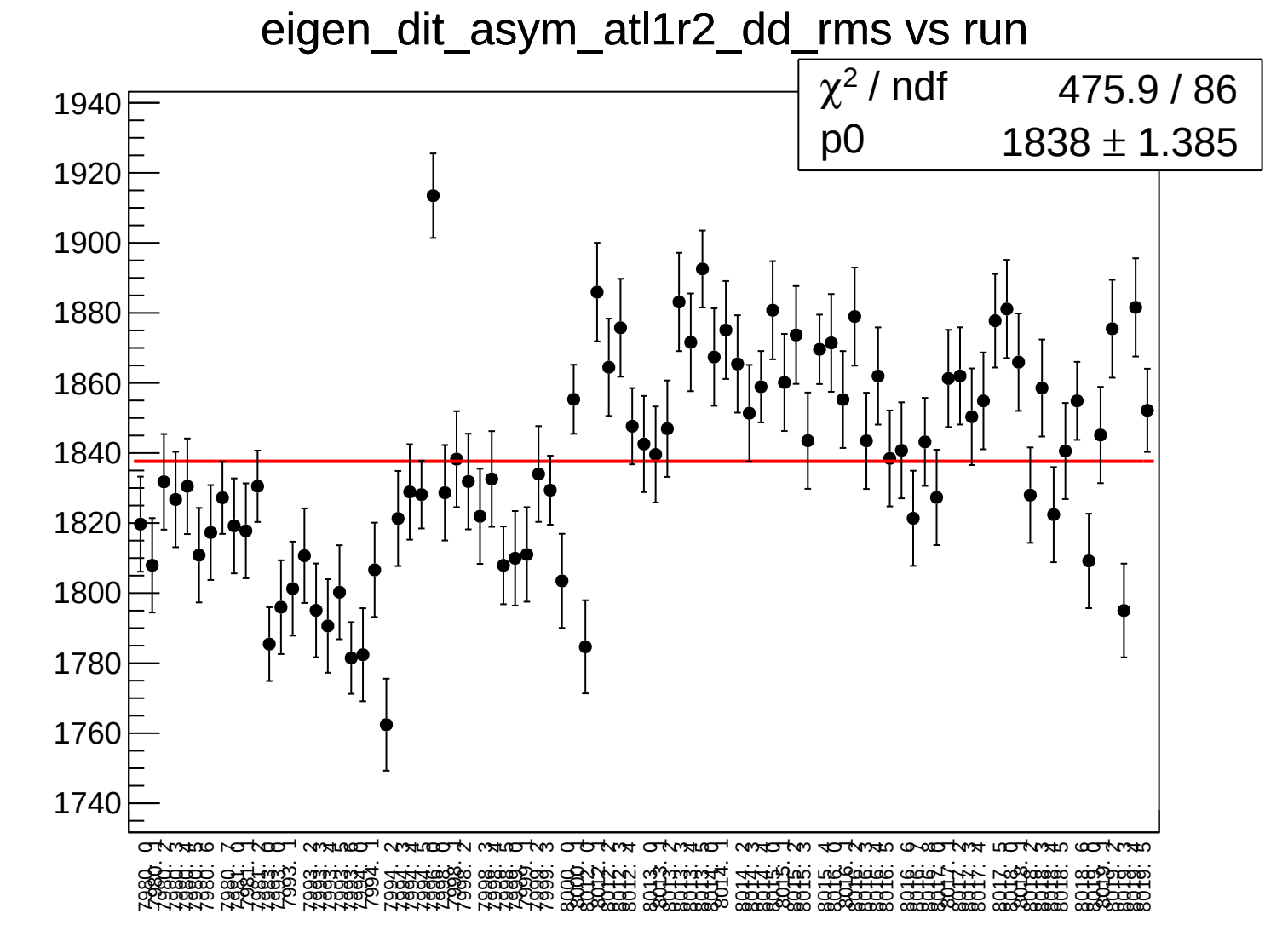

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 91.29 / 86
p0 1.424e+04 ± 7404
300
200
100
0
−100
−200
pull
Entries 87
Mean −37.07
Std Dev 43.96
3
2
1
0
−1
−2

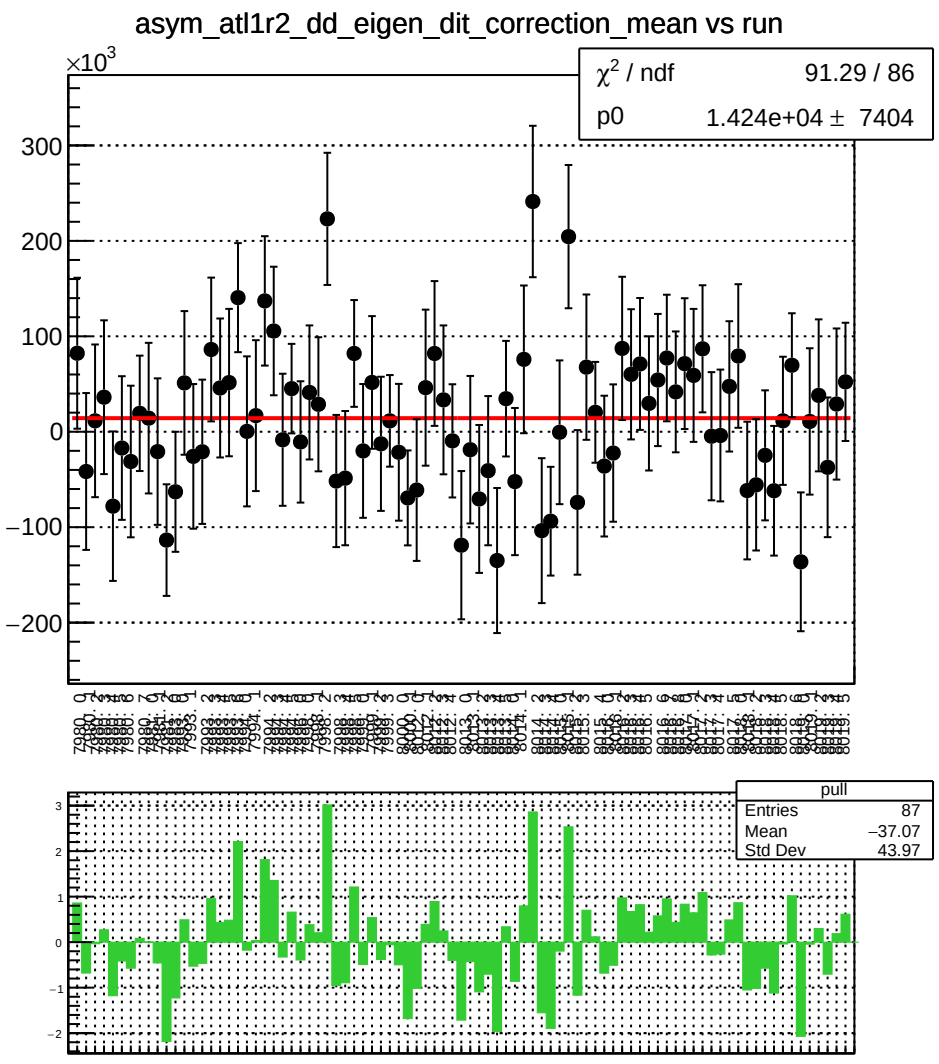

pull1D
Entries 87
Mean −0.003965
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

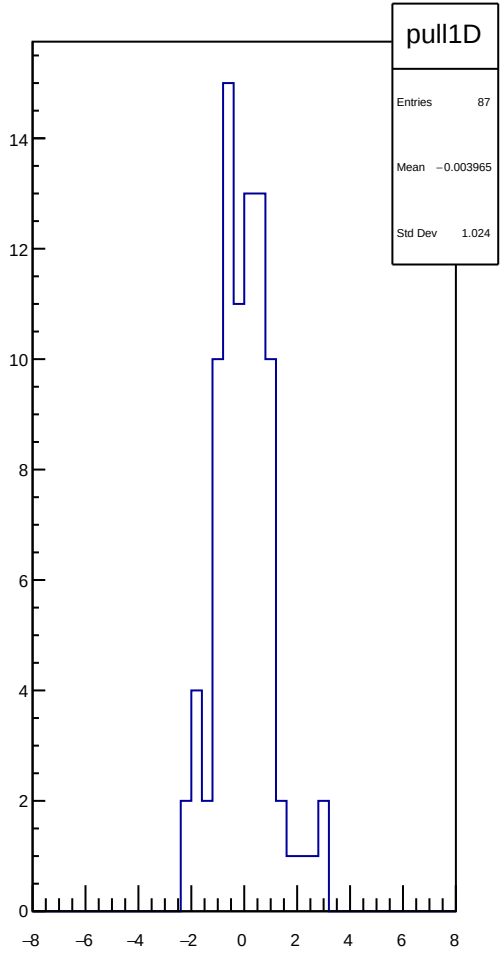

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 6471 / 86
p0 6935 ± 5.236
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

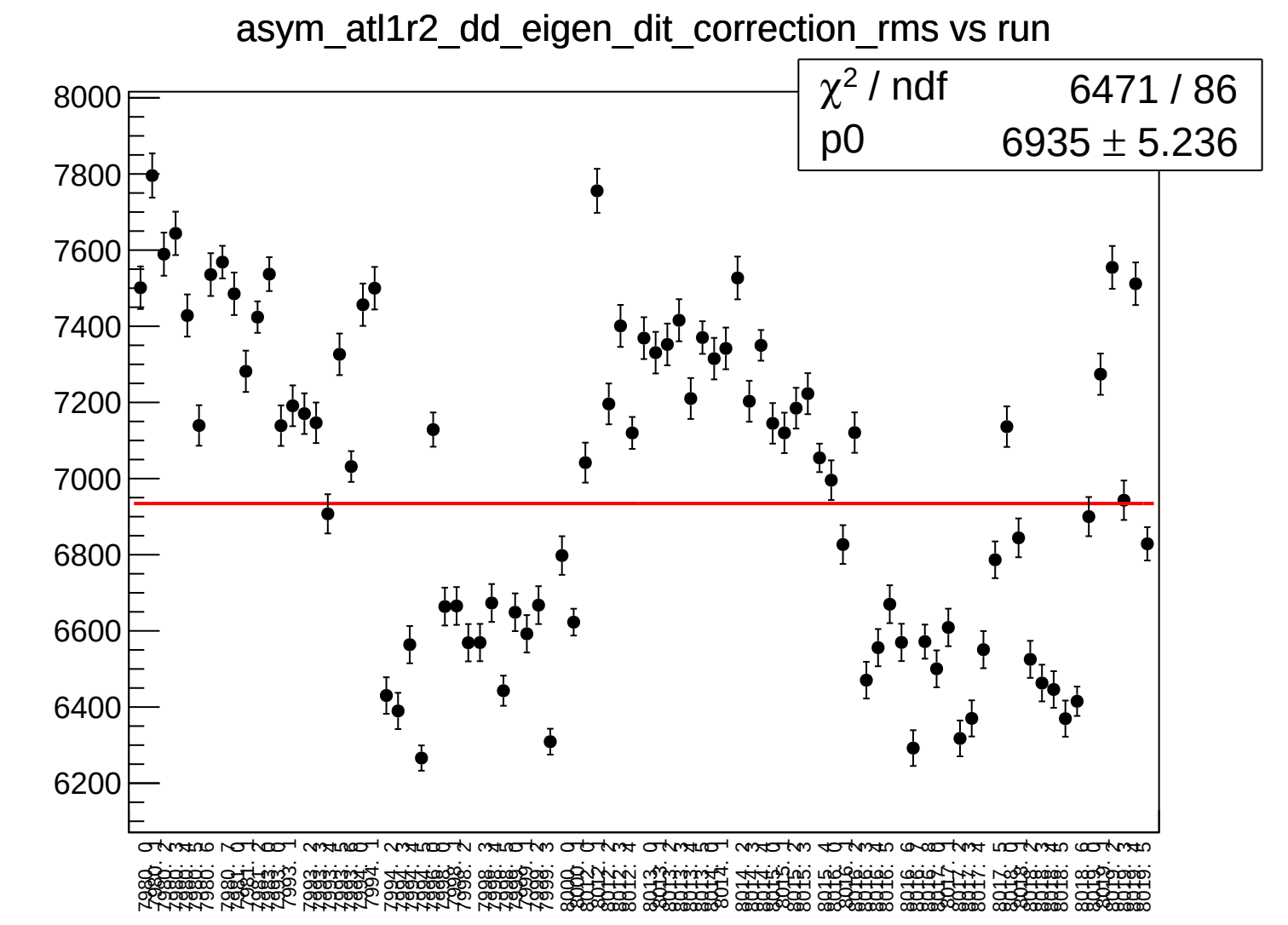

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 84.41 / 86
p0 −4230 ± 1959
pull
Entries 87
Mean 210.5
Std Dev 0

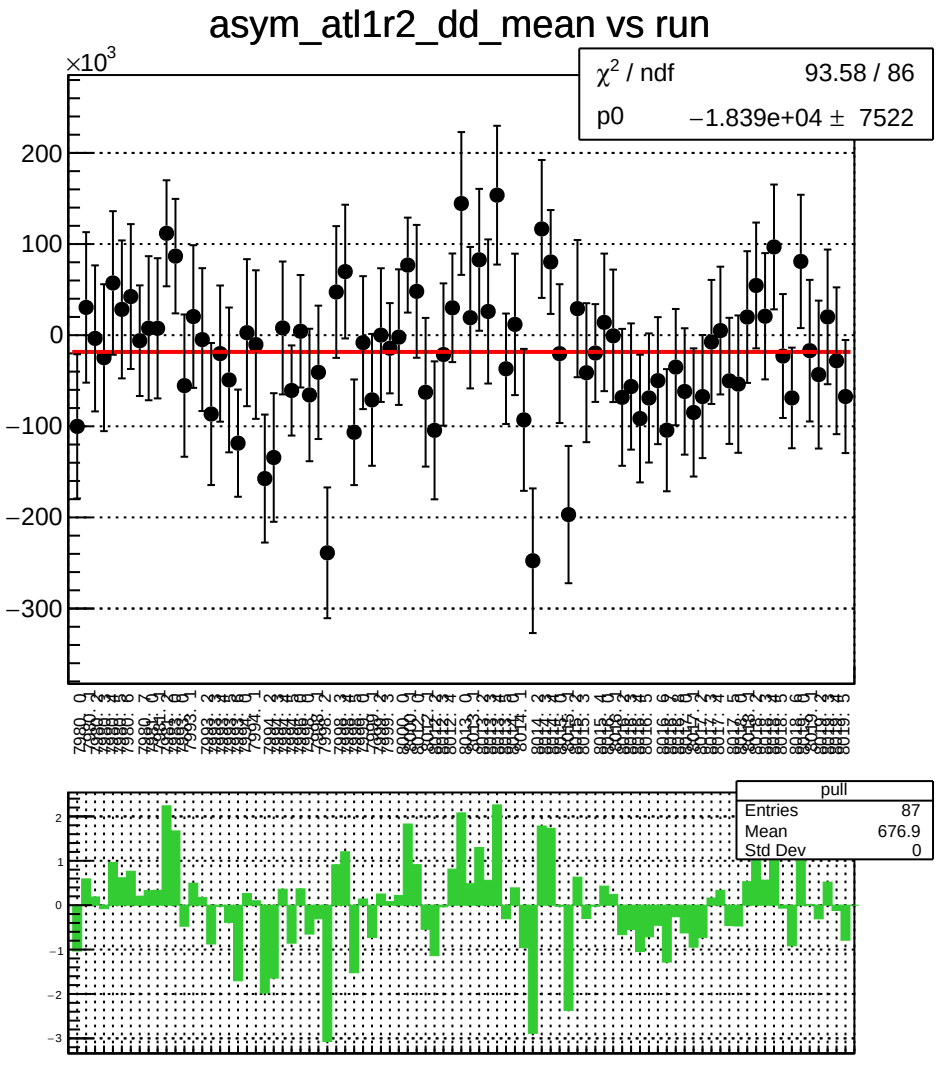

pull1D
Entries 87
Mean −0.0198
Std Dev 0.9848

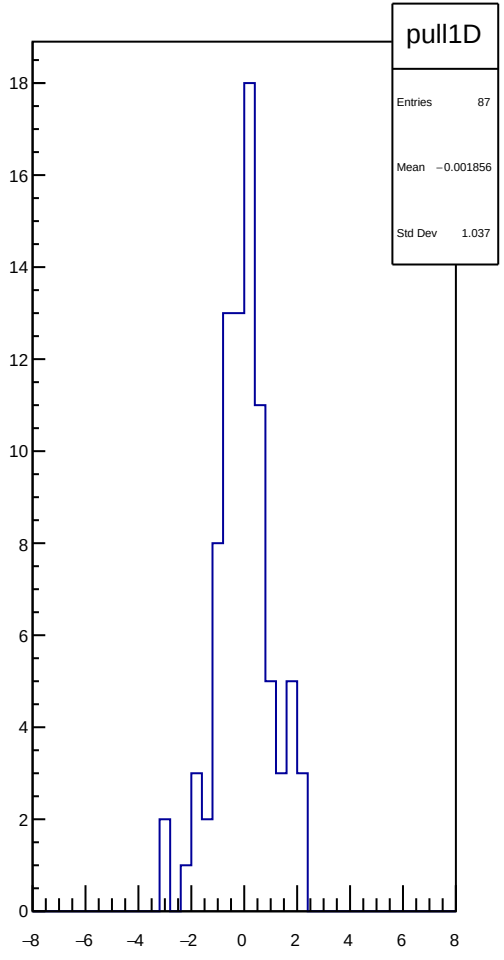

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 475.9 / 86
p0 1838 ± 1.385
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

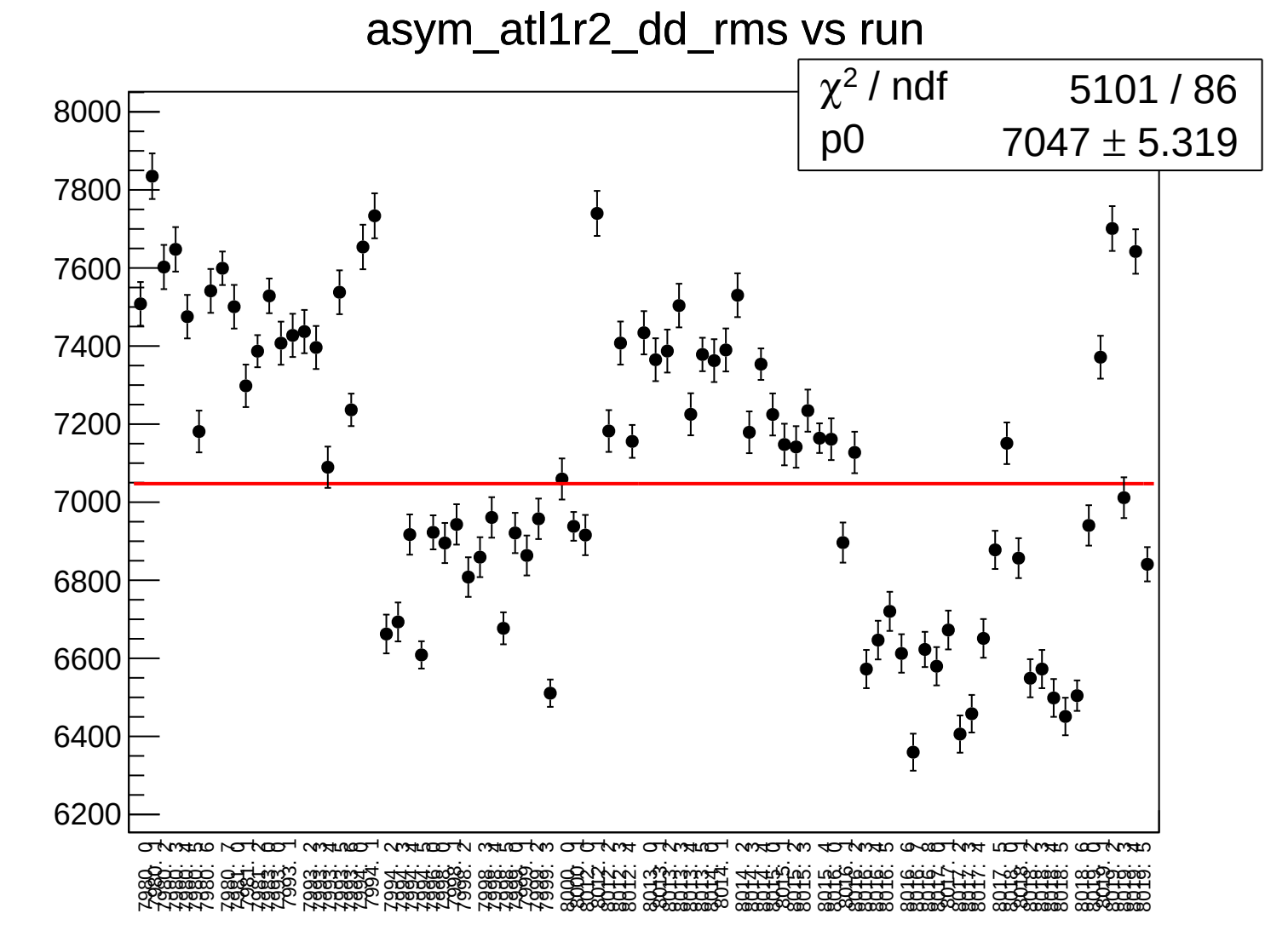

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.29 / 86
p0 1.424e+04 ± 7404
300
200
100
0
−100
−200
pull
Entries 87
Mean −37.07
Std Dev 43.97
3
2
1
0
−1
−2

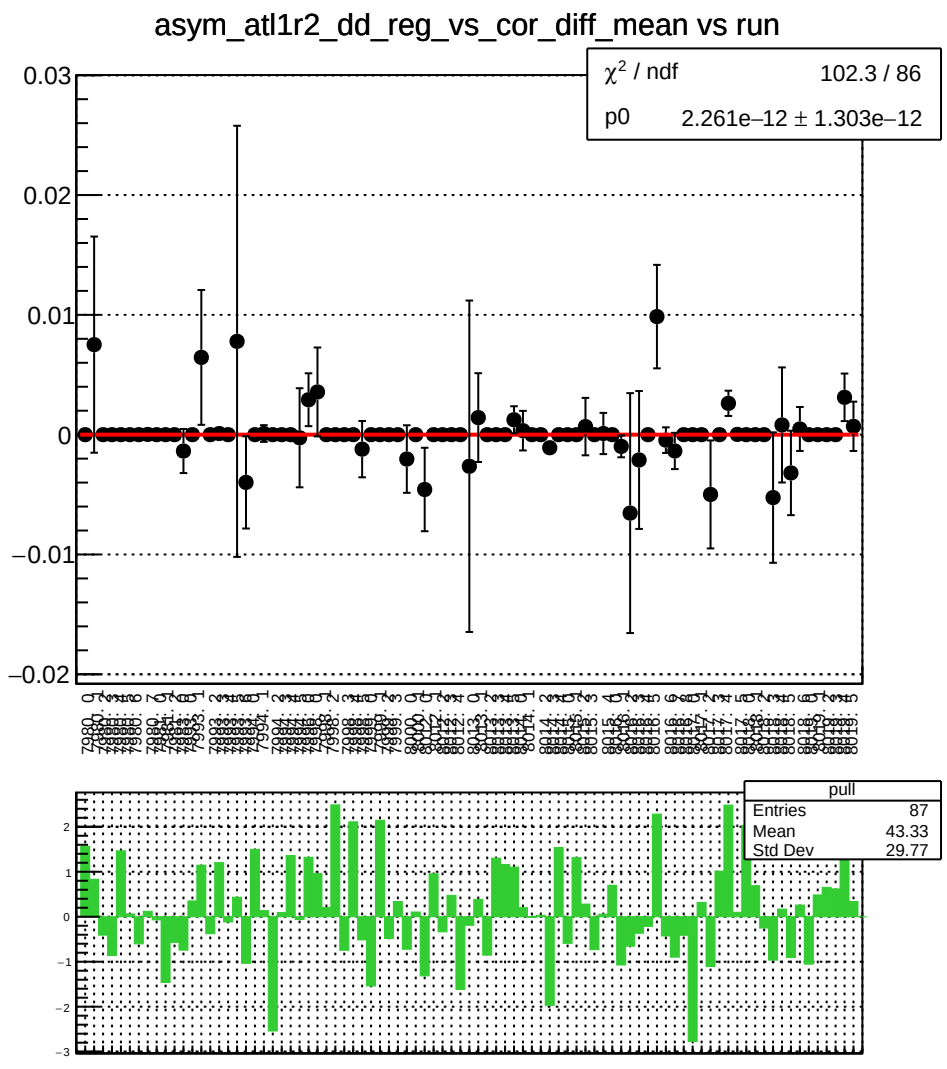

pull1D
Entries 87
Mean −0.003965
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

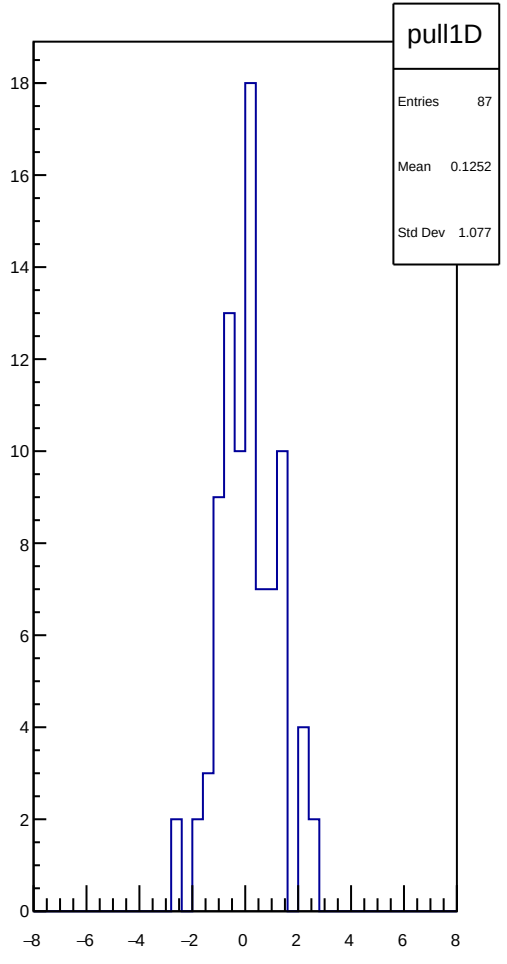

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6471 / 86
p0 6935 ± 5.236
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

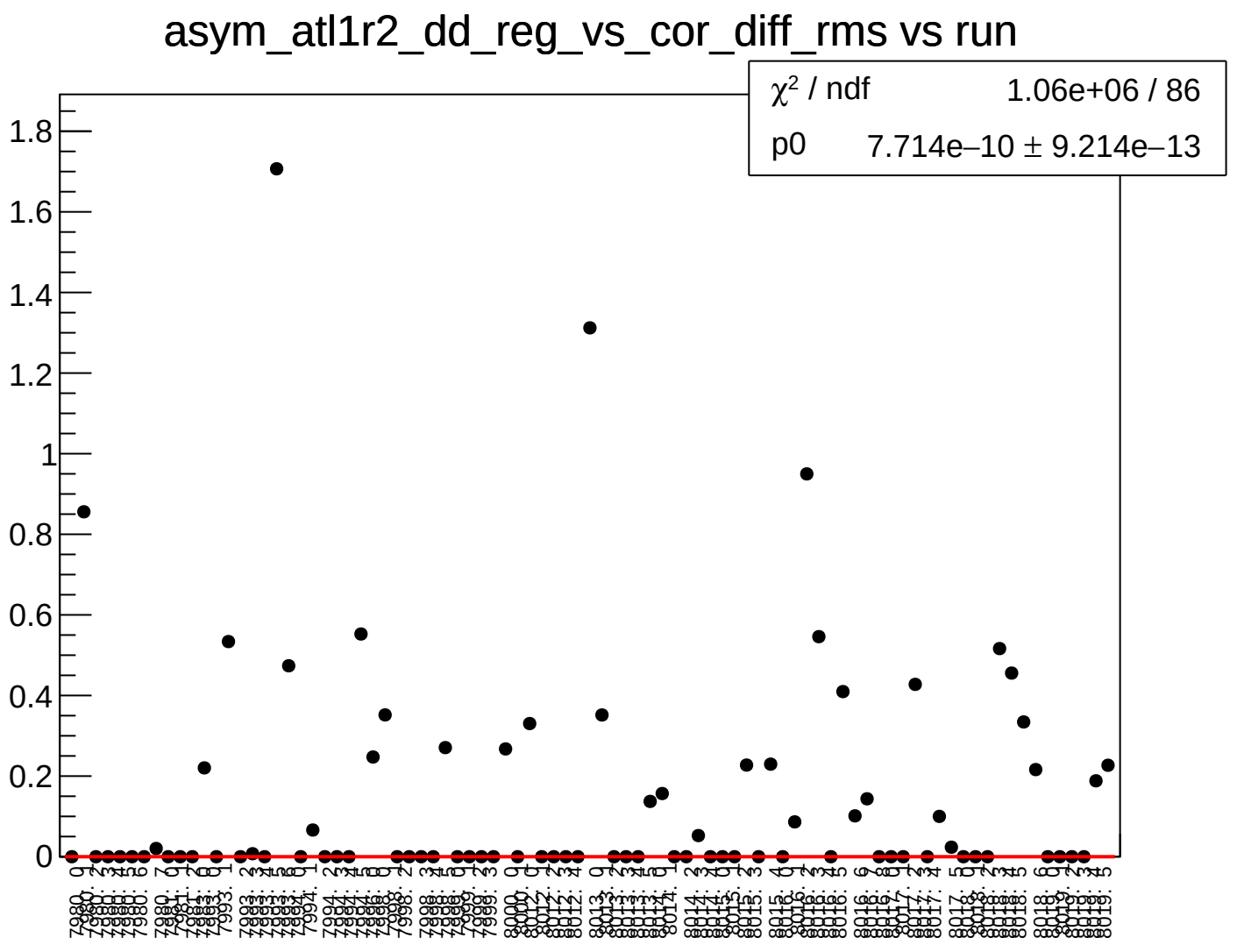

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 93.58 / 86
p0 −1.839e+04 ± 7522
200
100
0
−100
−200
−300
pull
Entries 87
Mean 676.9
Std Dev 0
2
1
0
−1
−2
−3

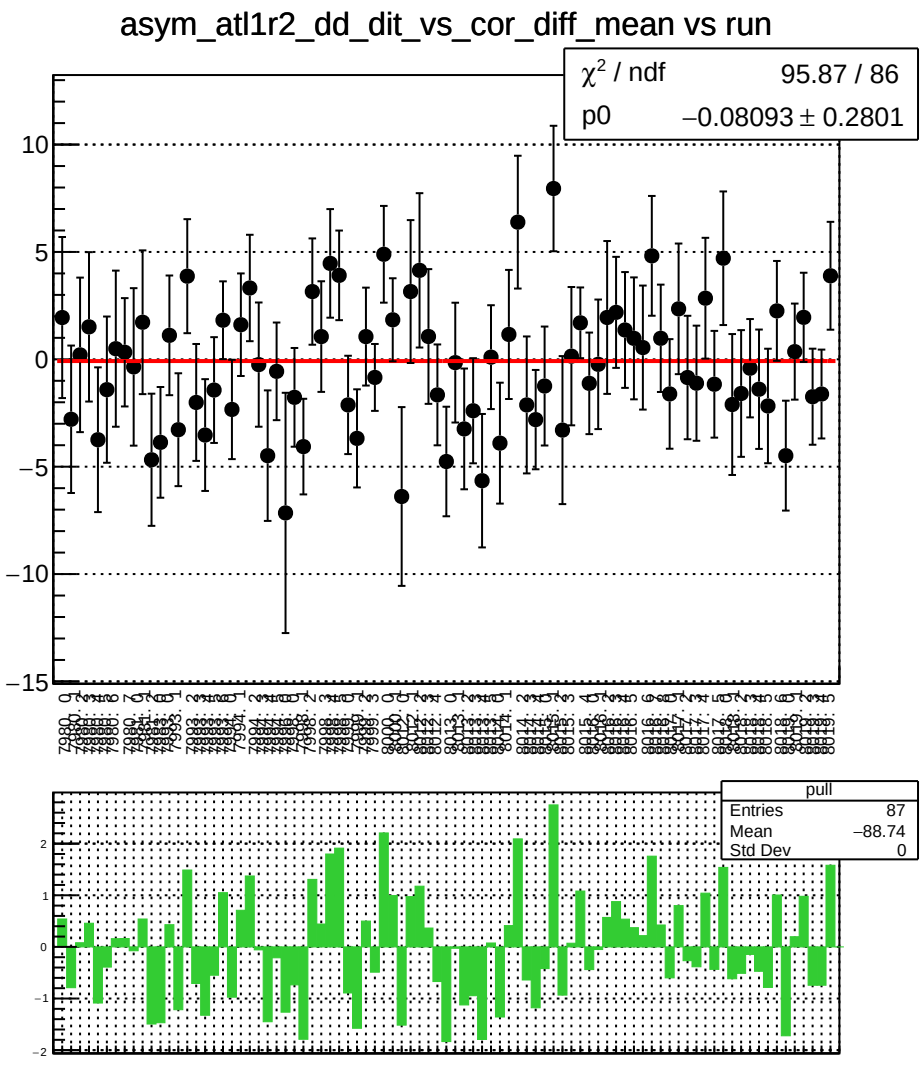

pull1D
Entries 87
Mean −0.001856
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

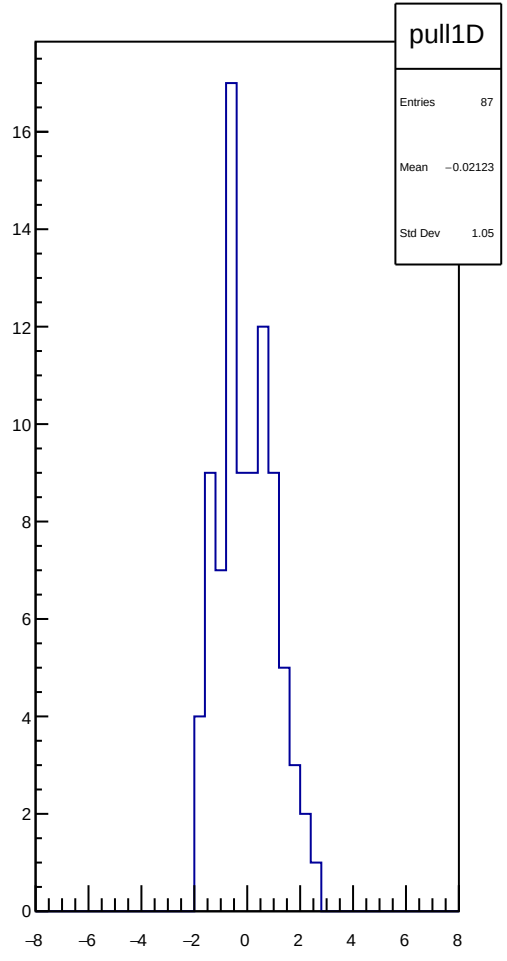

asym_atl1r2_dd_rms vs run
χ² / ndf 5101 / 86
p0 7047 ± 5.319
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

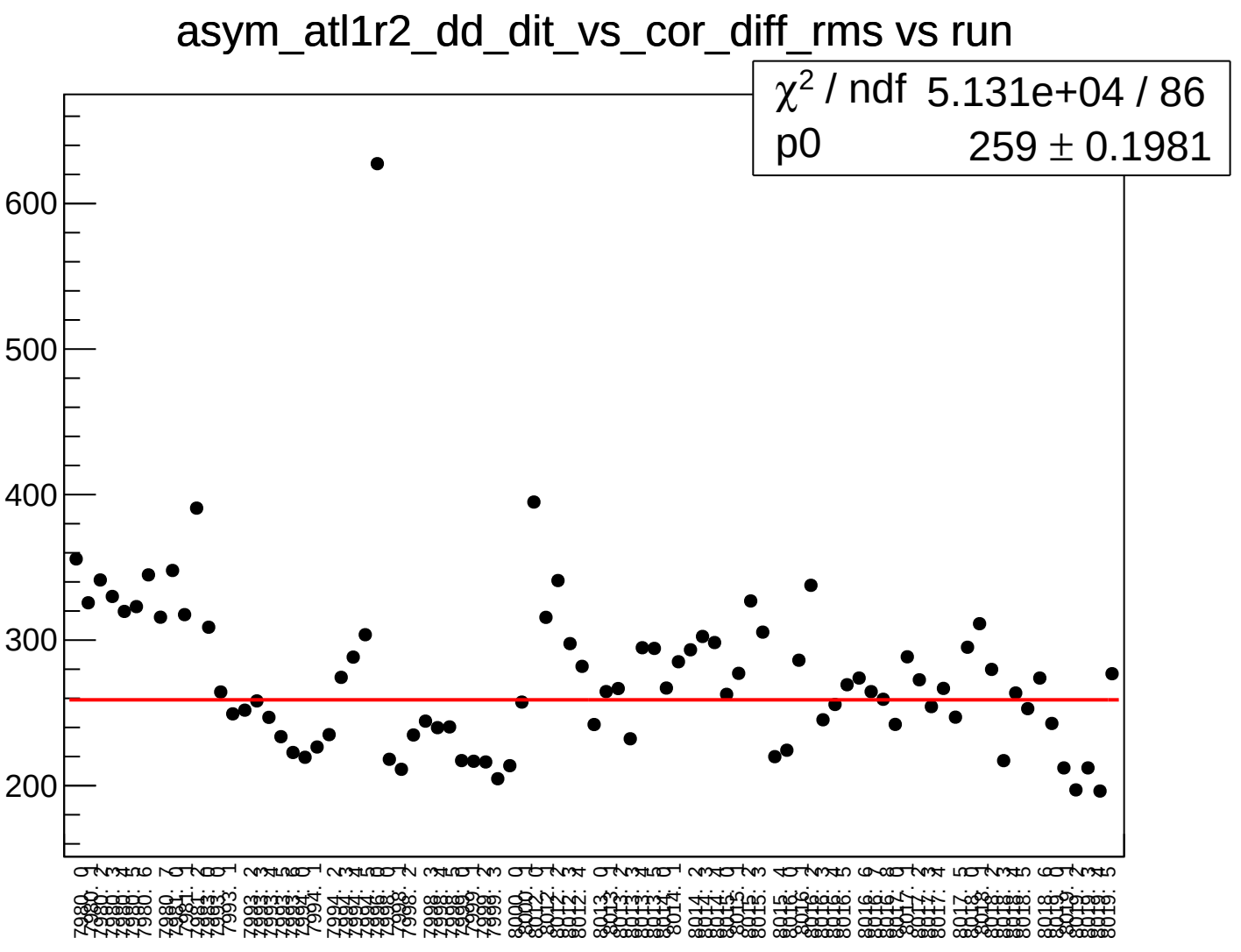

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 86
p0 2.261e−12 ± 1.303e−12
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 43.33
Std Dev 29.77
2
1
0
−1
−2
−3

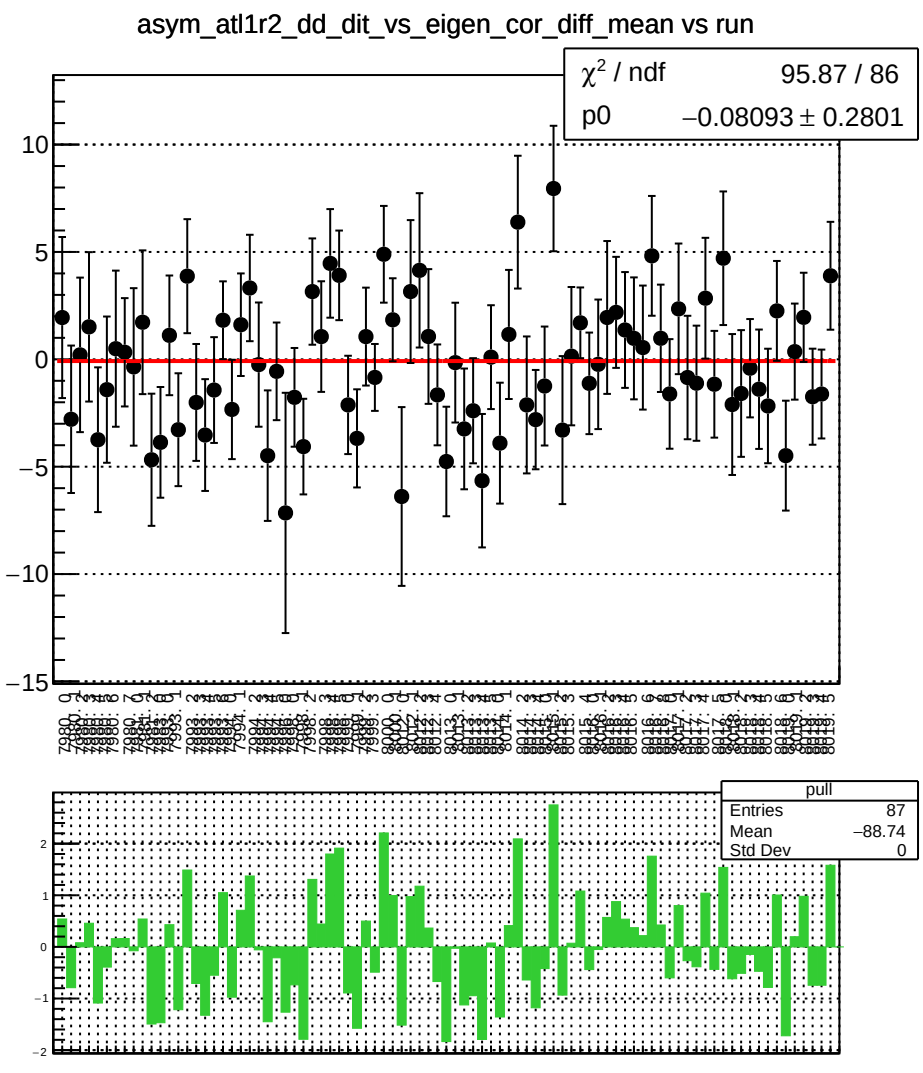

pull1D
Entries 87
Mean 0.1252
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

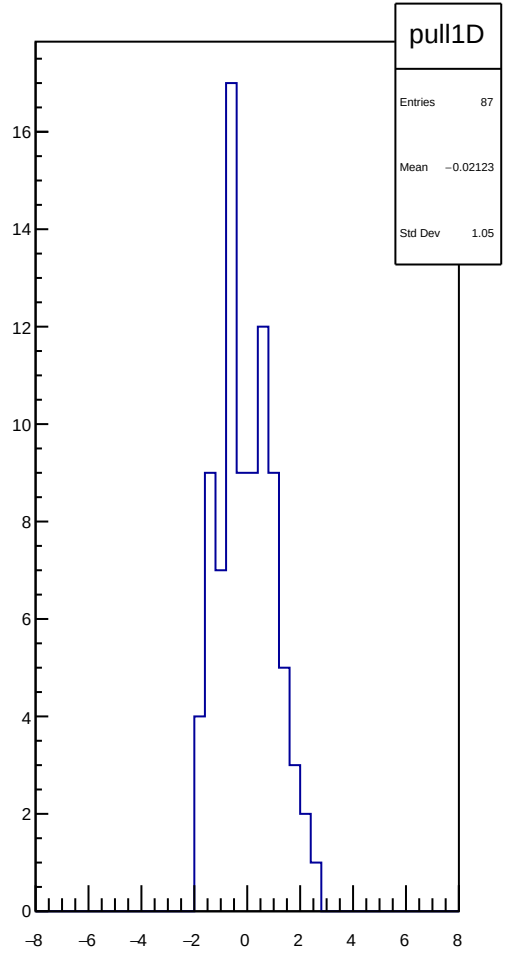

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.06e+06 / 86
p0 7.714e−10 ± 9.214e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

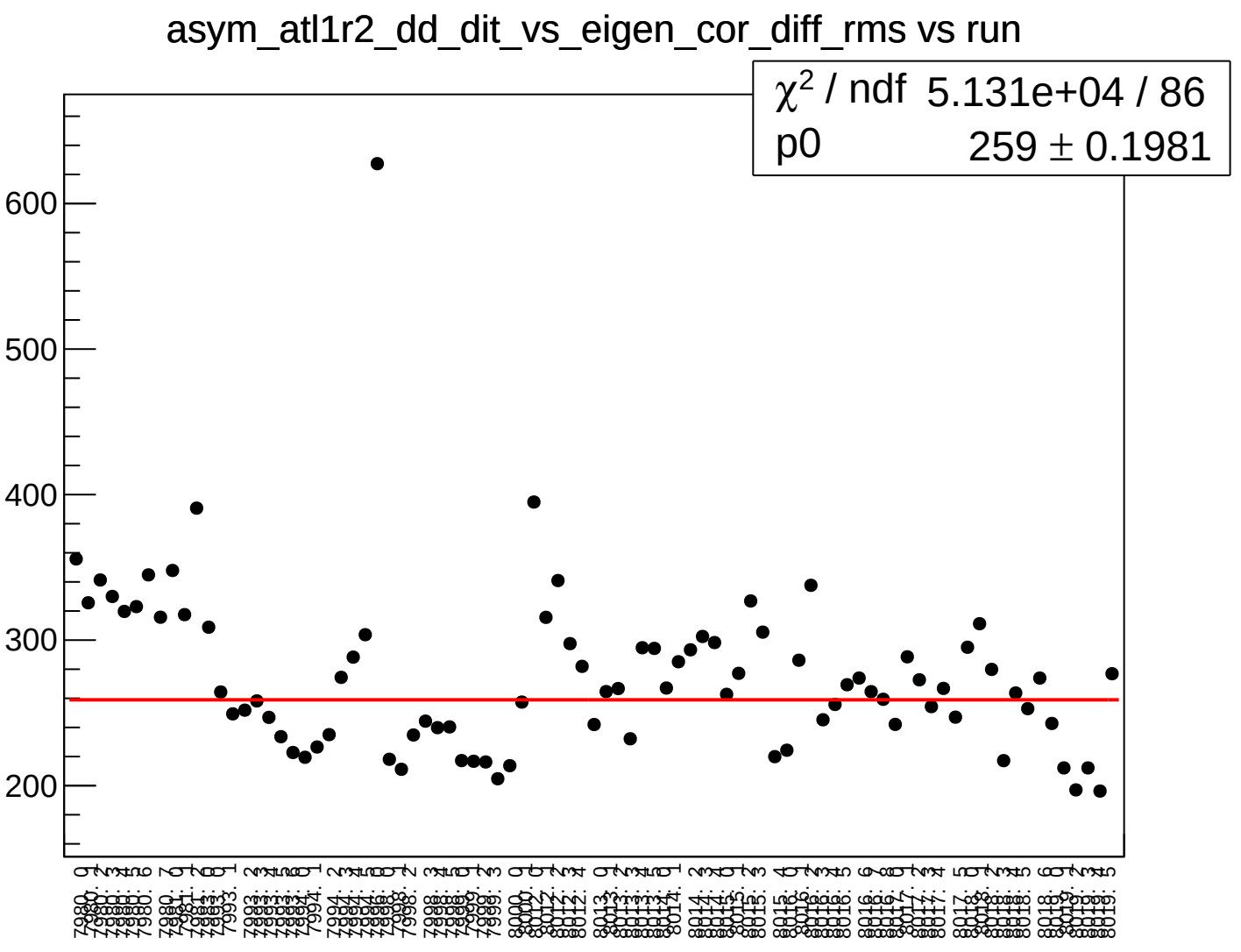

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.87 / 86
p0 −0.08093 ± 0.2801
pull
Entries 87
Mean −88.74
Std Dev 0

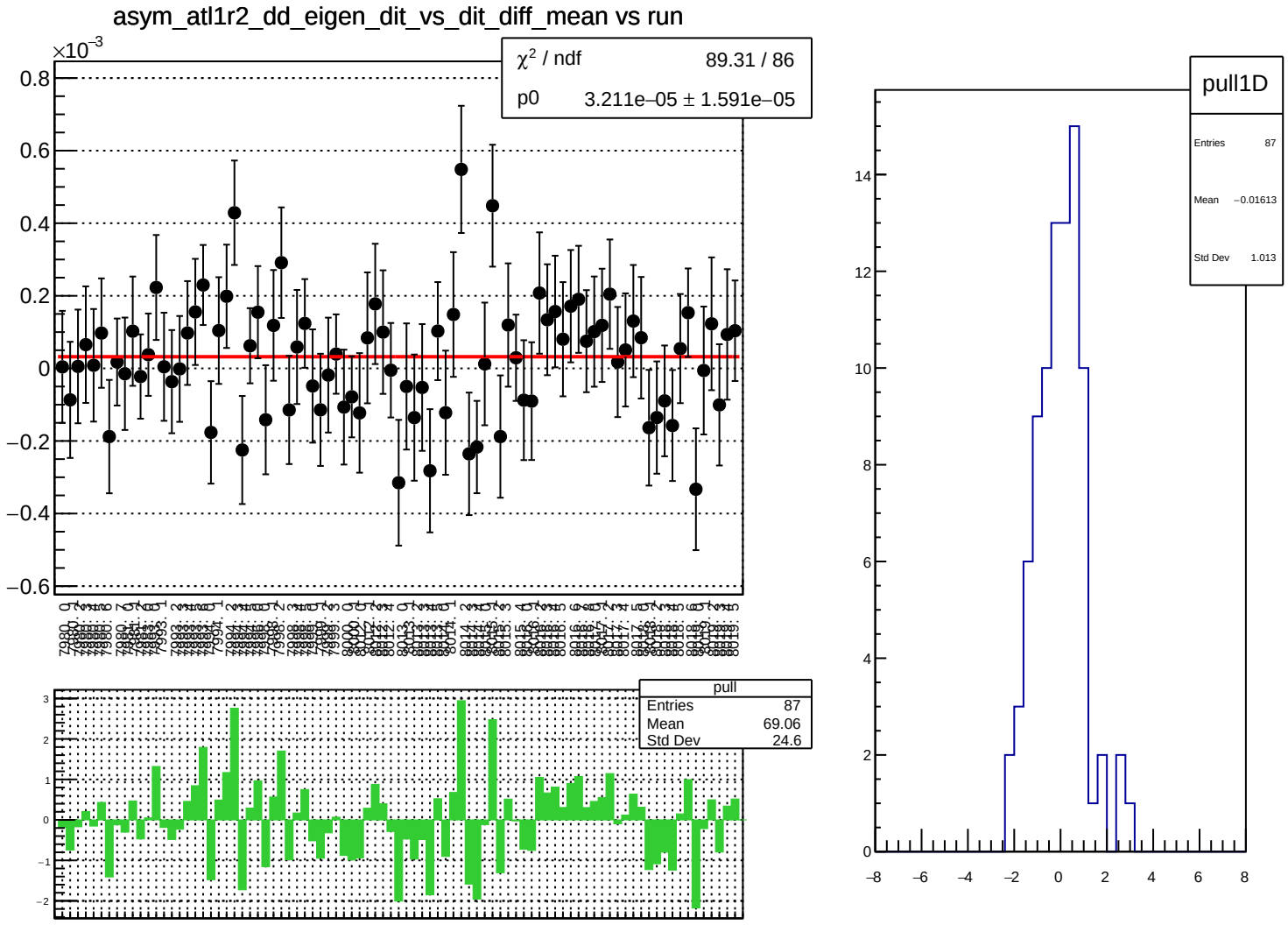

pull1D
Entries 87
Mean −0.02123
Std Dev 1.05

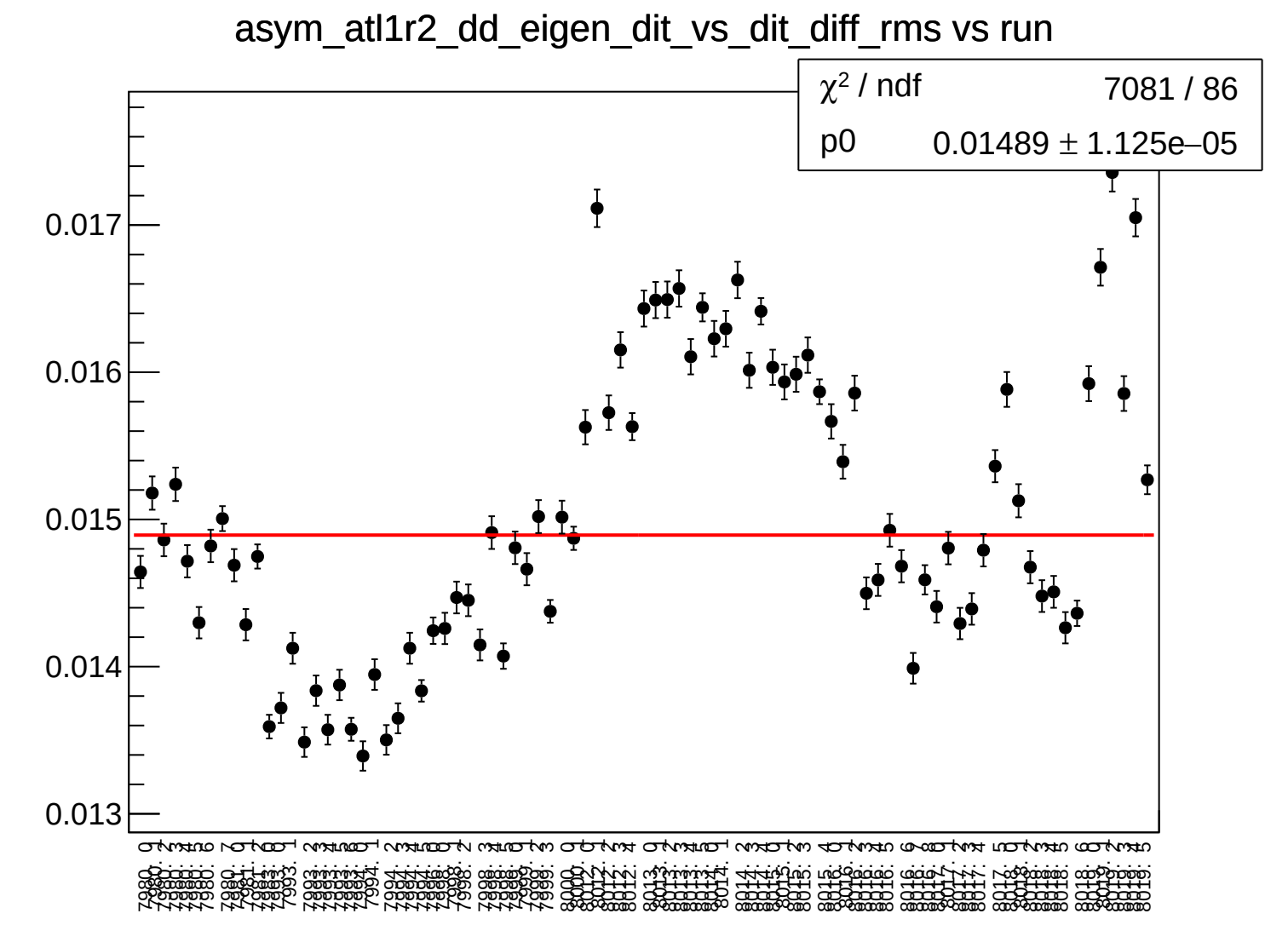

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.131e+04 / 86
p0 259 ± 0.1981
600
500
400
300
200

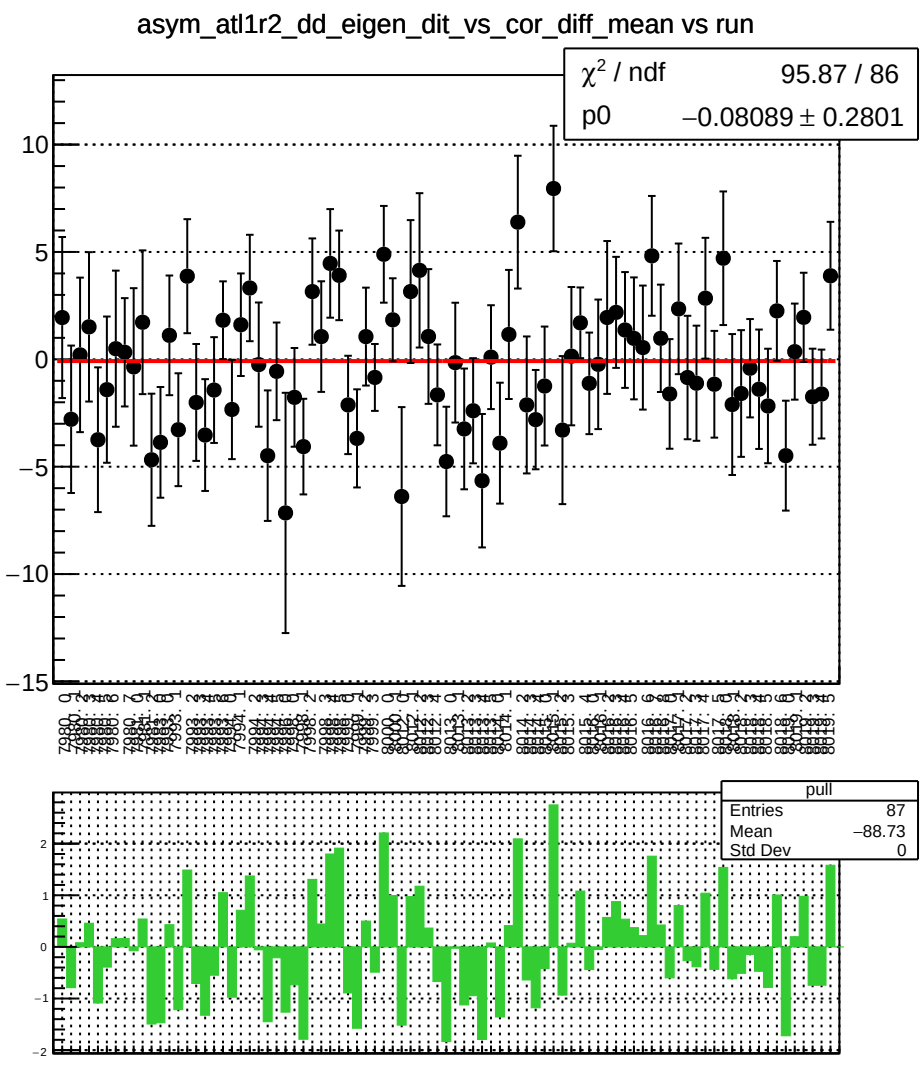

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.87 / 86
p0 −0.08093 ± 0.2801
pull
Entries 87
Mean −88.74
Std Dev 0

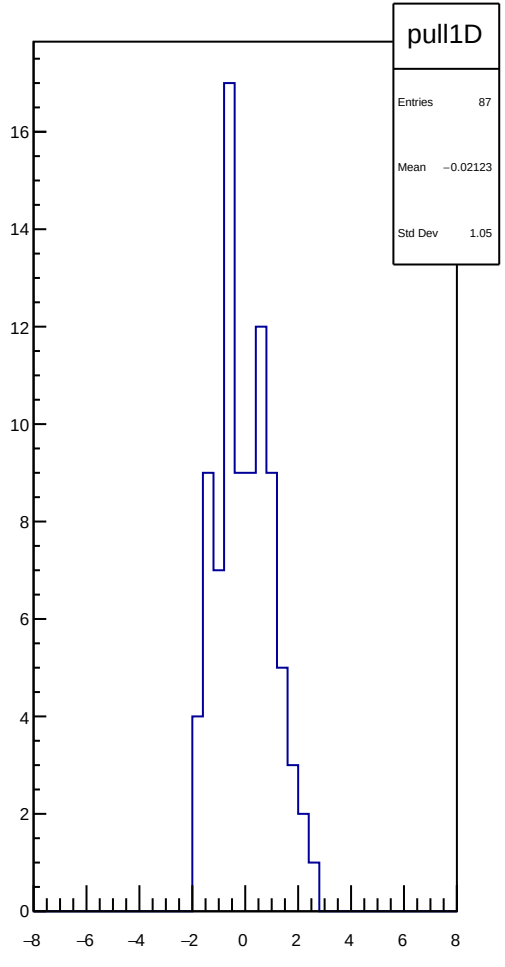

pull1D
Entries 87
Mean −0.02123
Std Dev 1.05

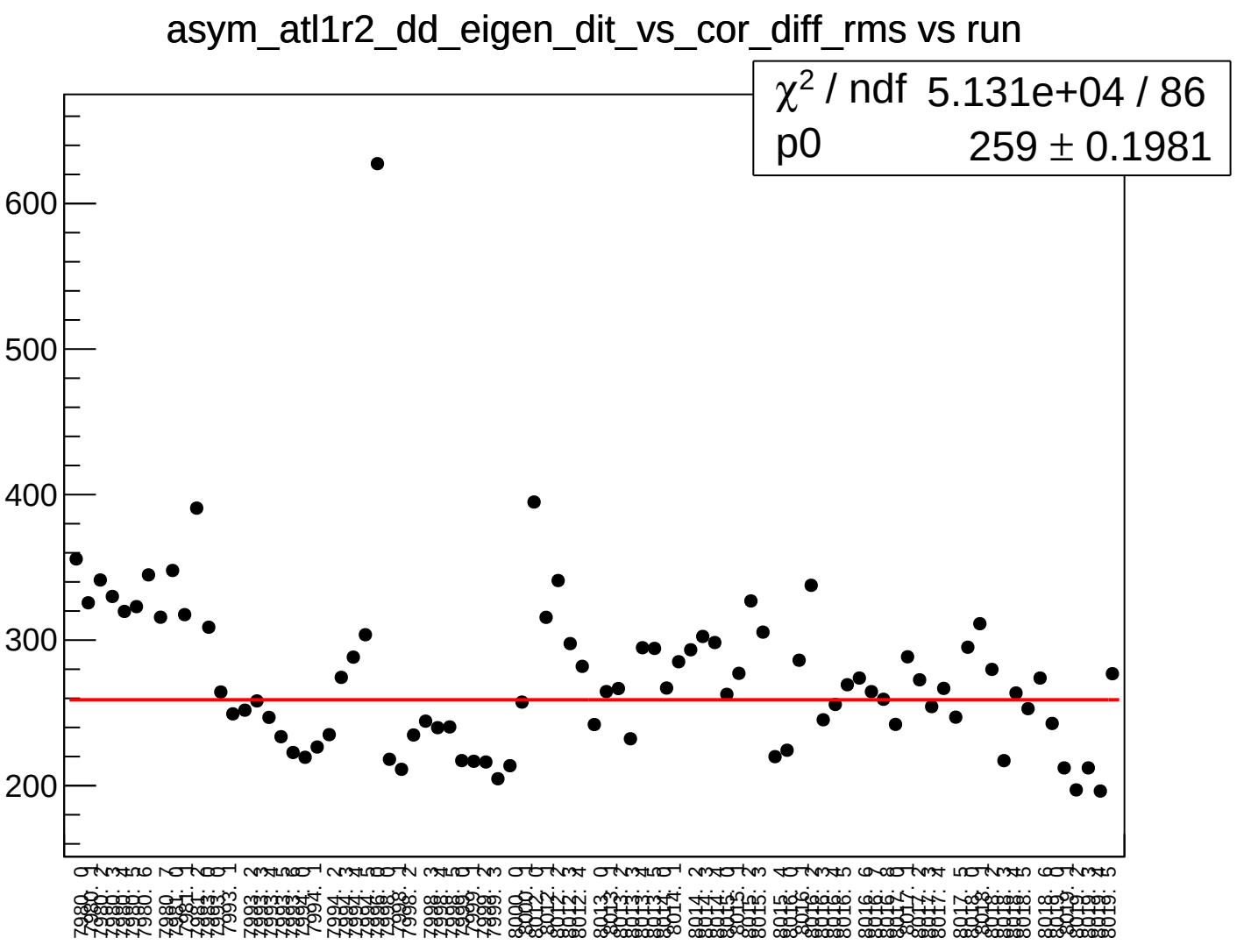

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.131e+04 / 86
p0 259 ± 0.1981
600
500
400
300
200

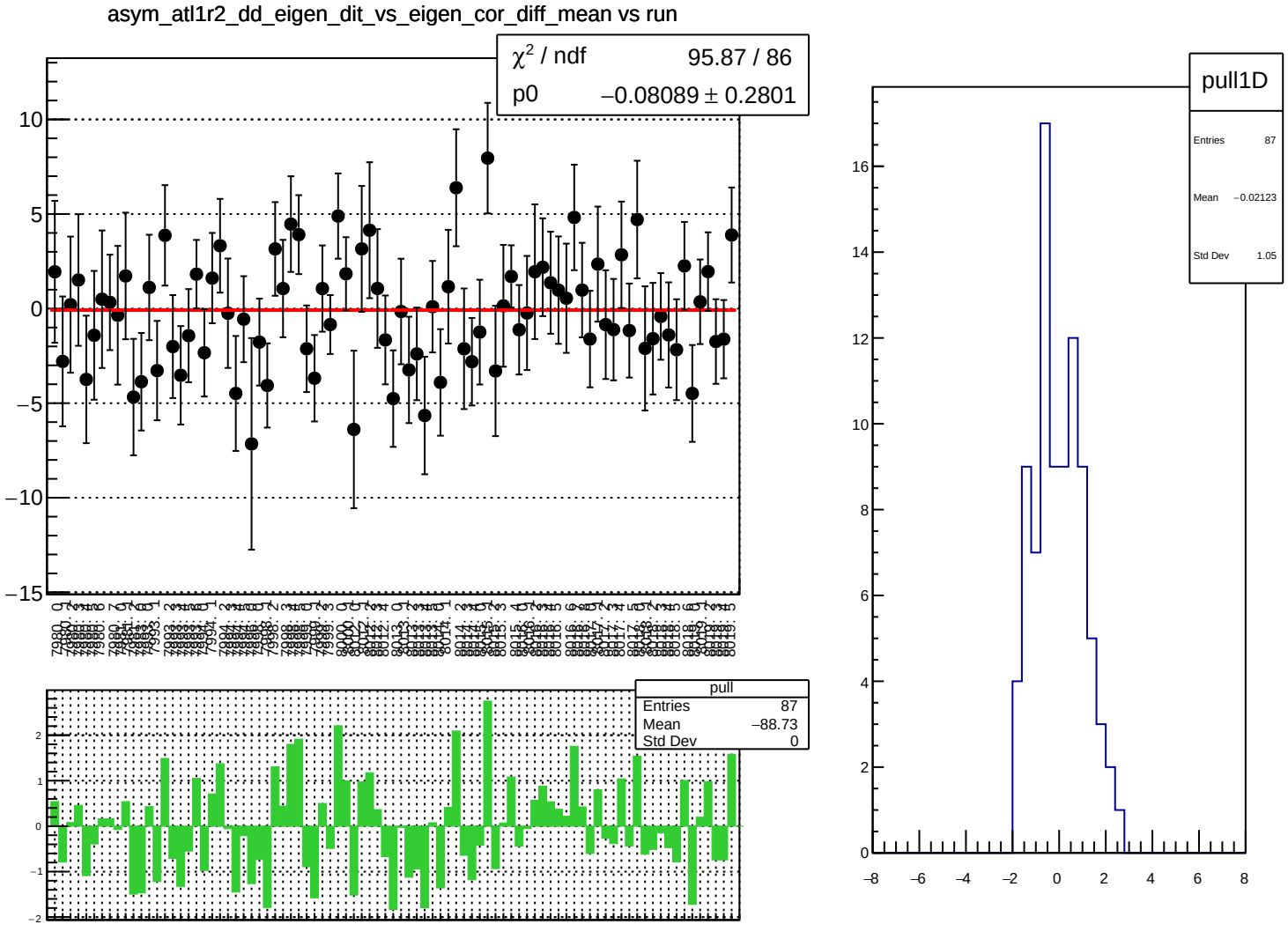

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.31 / 86
p0 3.211e−05 ± 1.591e−05
pull
Entries 87
Mean 69.06
Std Dev 24.6
pull1D
Entries 87
Mean −0.01613
Std Dev 1.013

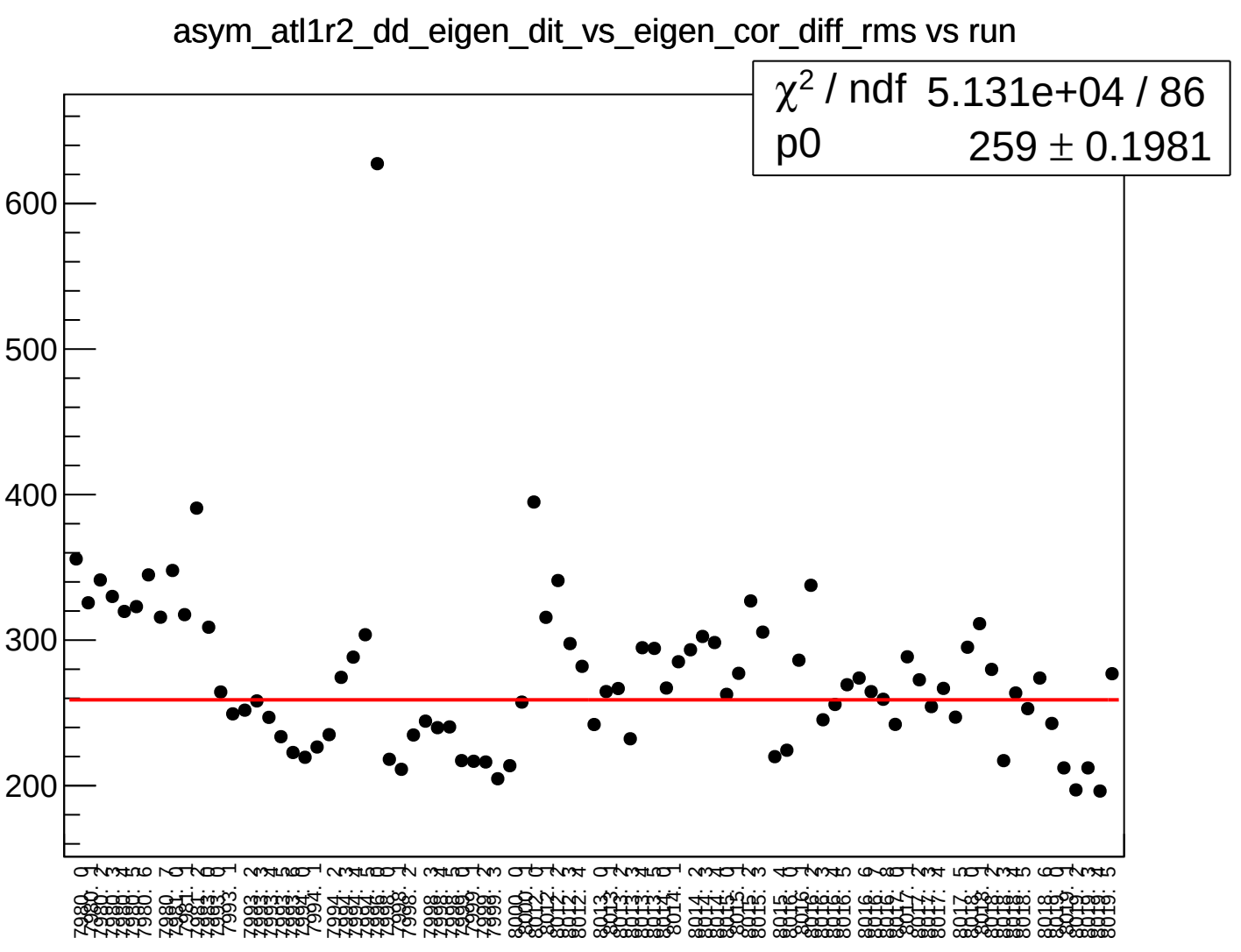

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7081 / 86
p0 0.01489 ± 1.125e−05
0.017
0.016
0.015
0.014
0.013

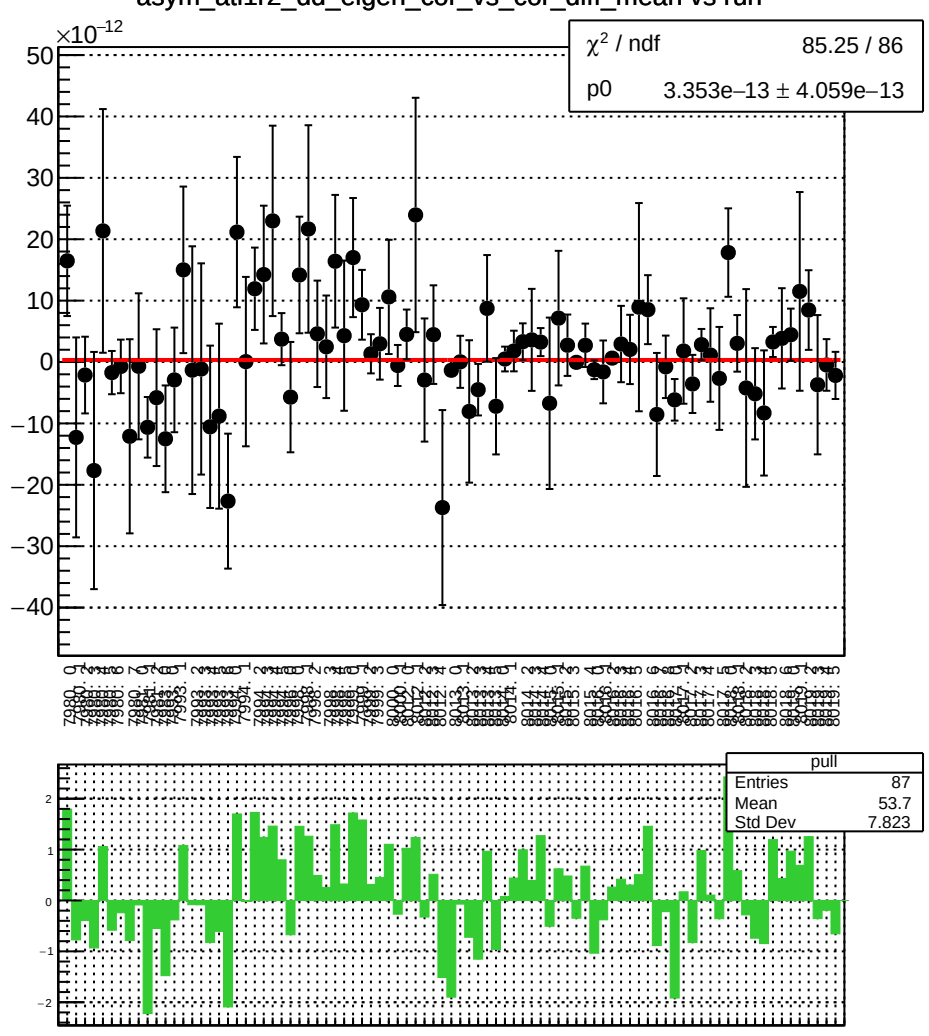

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.87 / 86
p0 −0.08089 ± 0.2801
pull
Entries 87
Mean −88.73
Std Dev 0

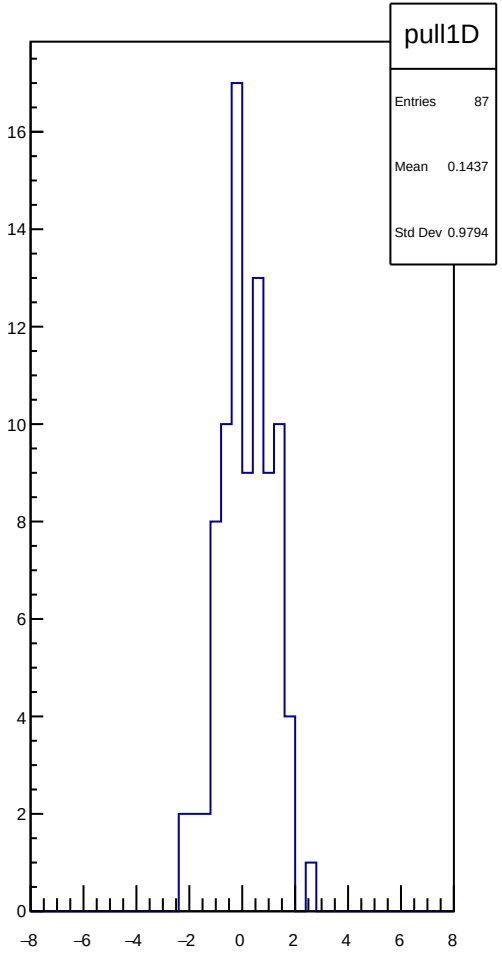

pull1D
Entries 87
Mean −0.02123
Std Dev 1.05

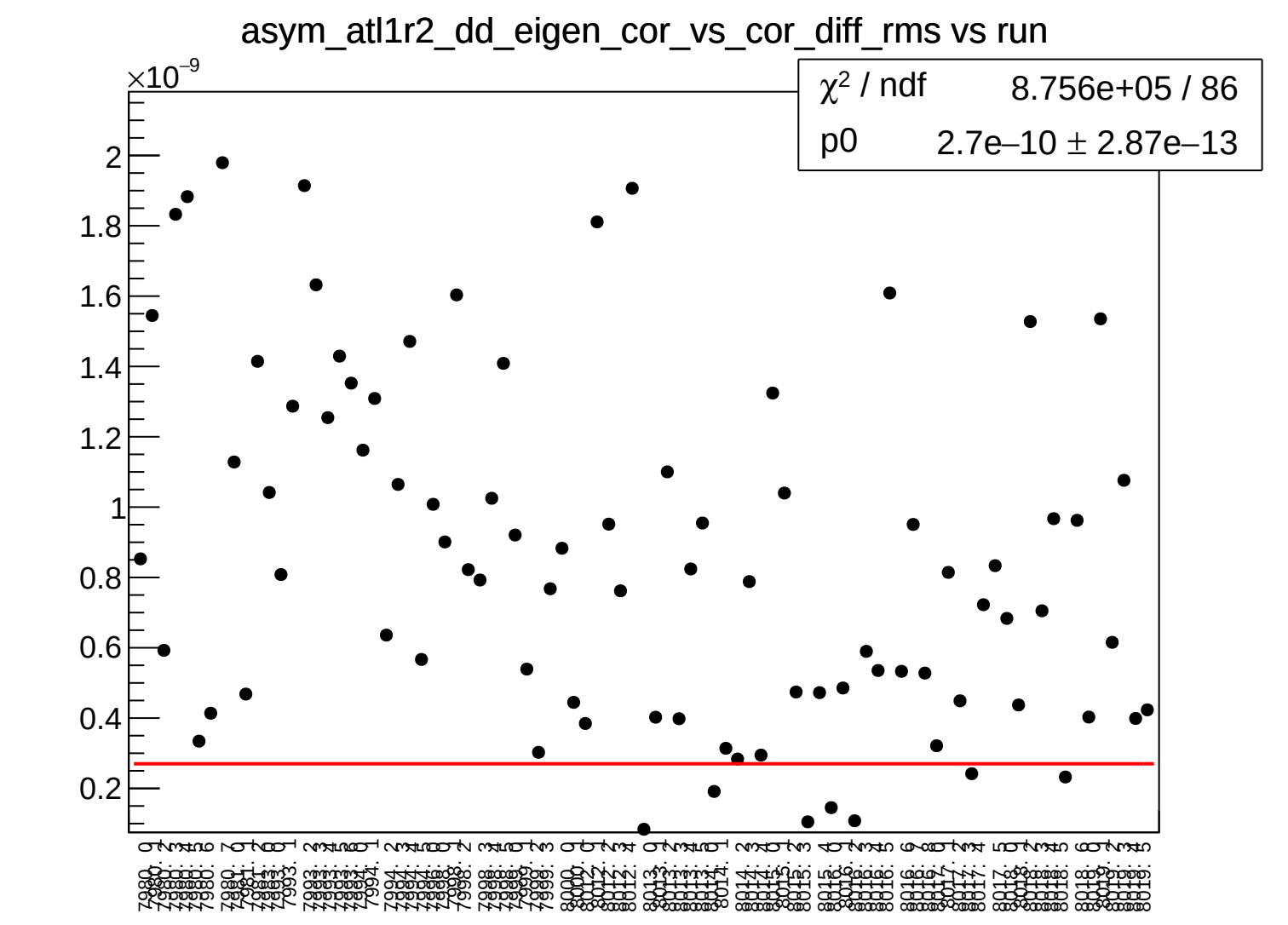

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.131e+04 / 86
p0 259 ± 0.1981
600
500
400
300
200

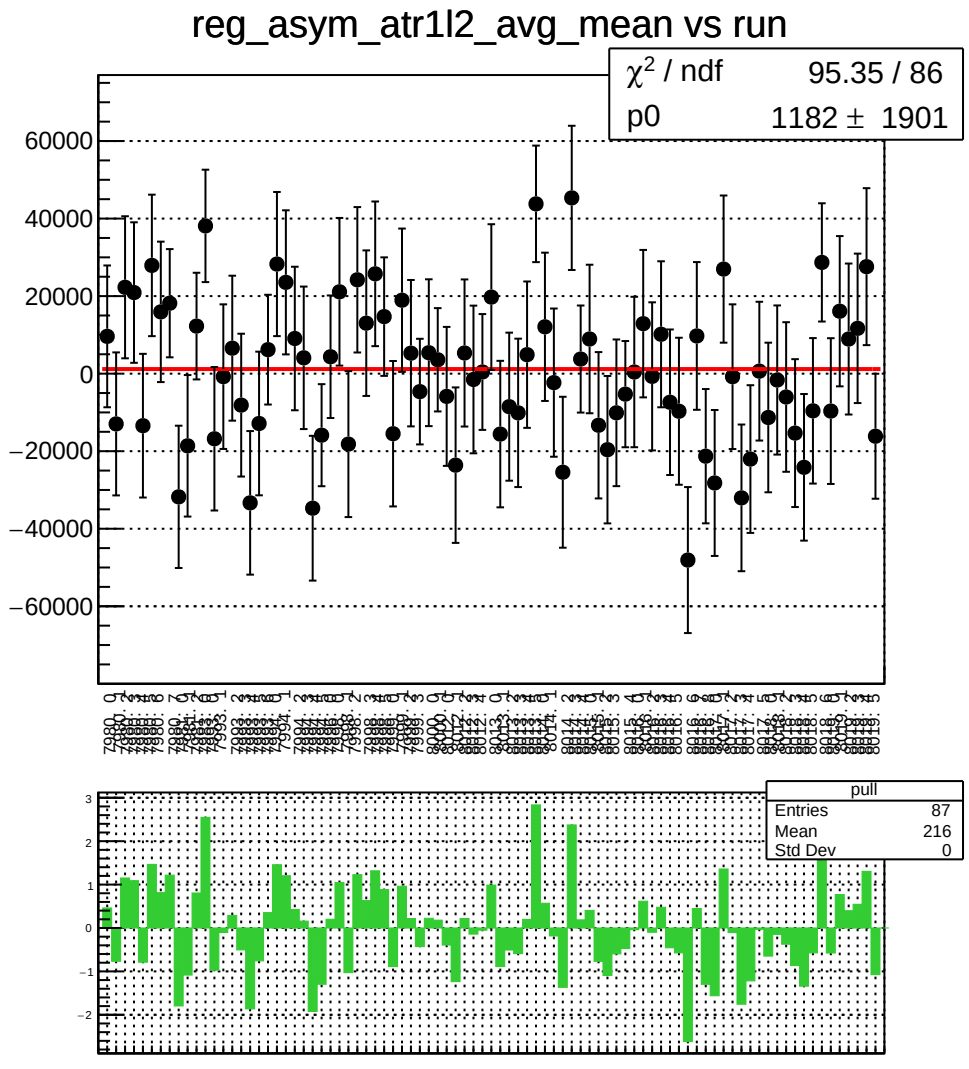

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.87 / 86
p0 −0.08089 ± 0.2801
pull
Entries 87
Mean −88.73
Std Dev 0
pull1D
Entries 87
Mean −0.02123
Std Dev 1.05

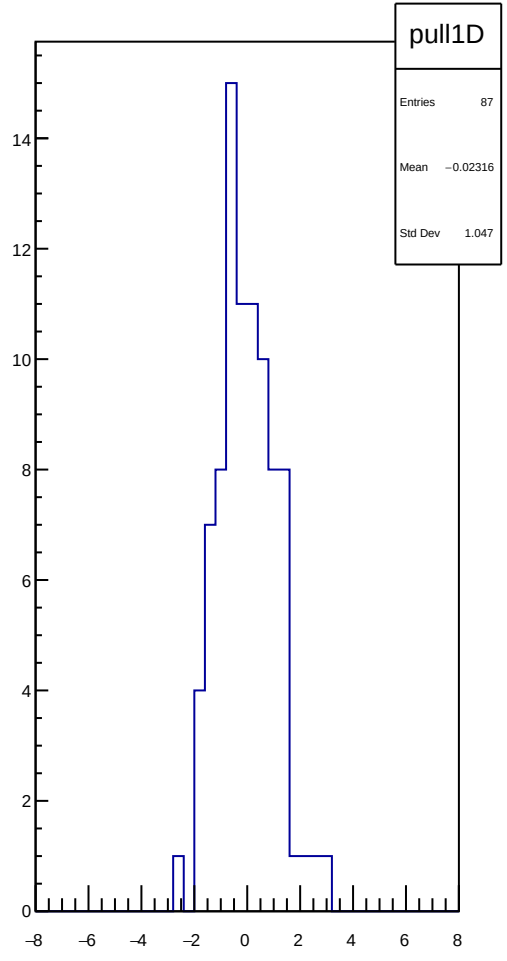

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.131e+04 / 86
p0 259 ± 0.1981
600
500
400
300
200

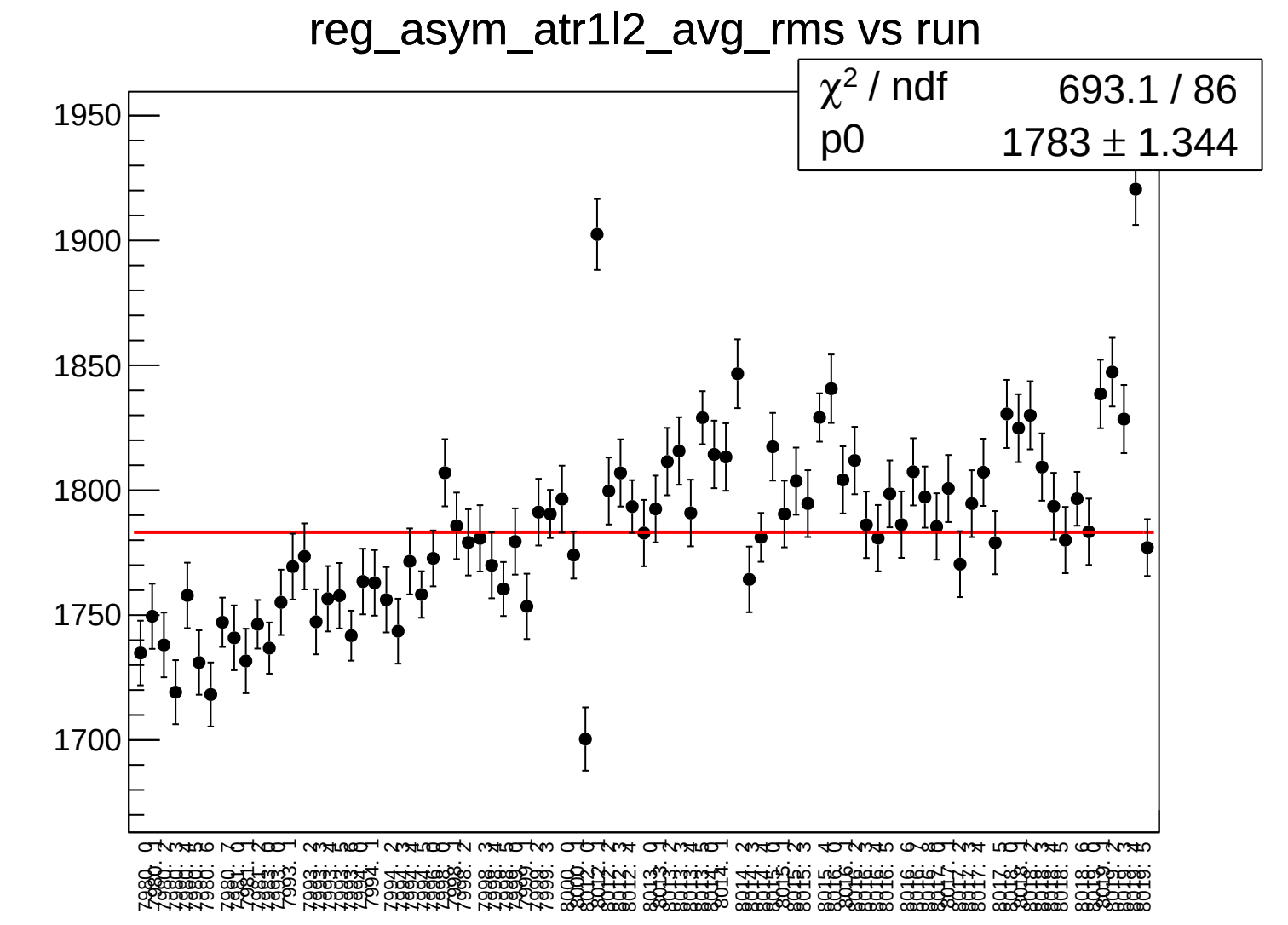

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.25 / 86
p0 3.353e−13 ± 4.059e−13
pull
Entries 87
Mean 53.7
Std Dev 7.823

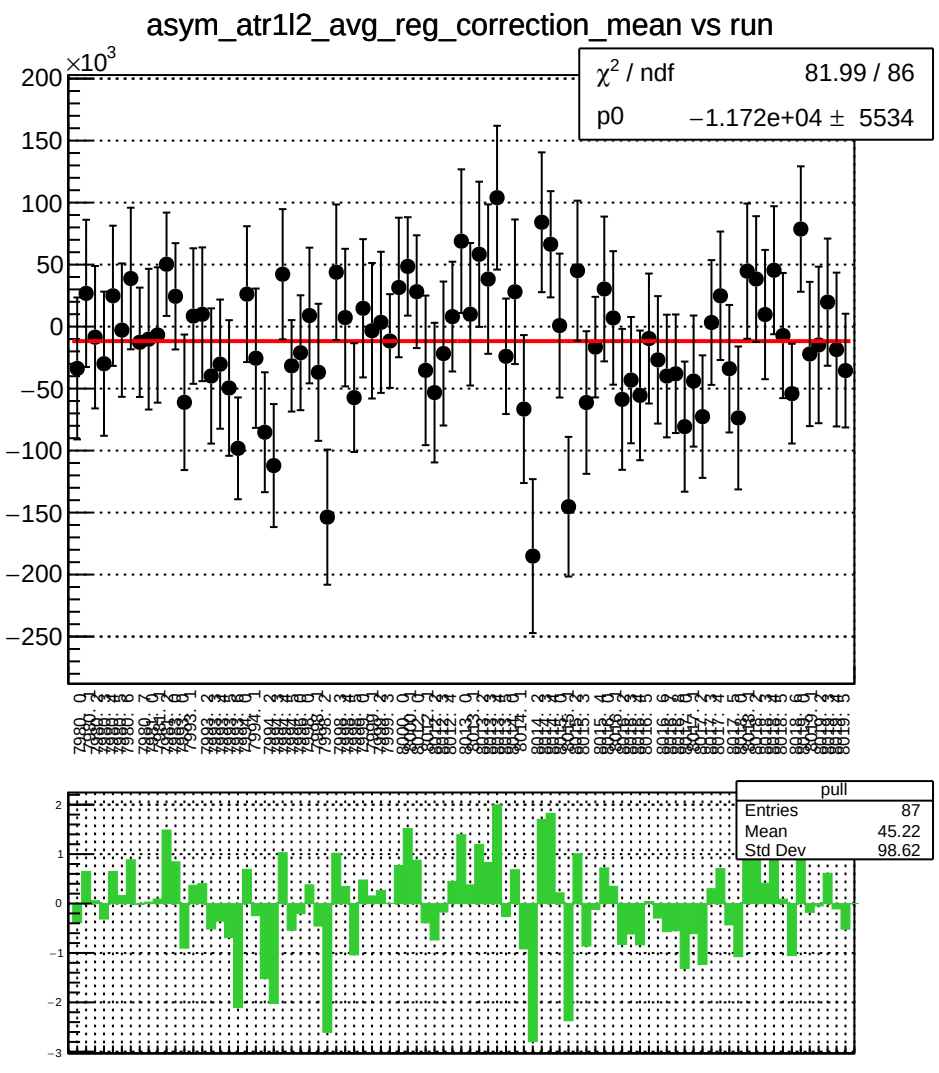

pull1D
Entries 87
Mean 0.1437
Std Dev 0.9794

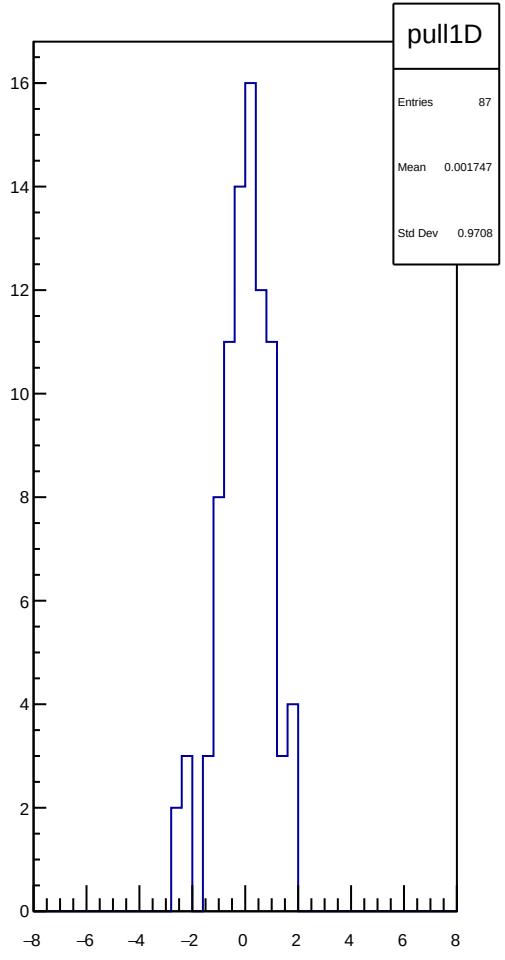

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.756e+05 / 86
p0 2.7e−10 ± 2.87e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

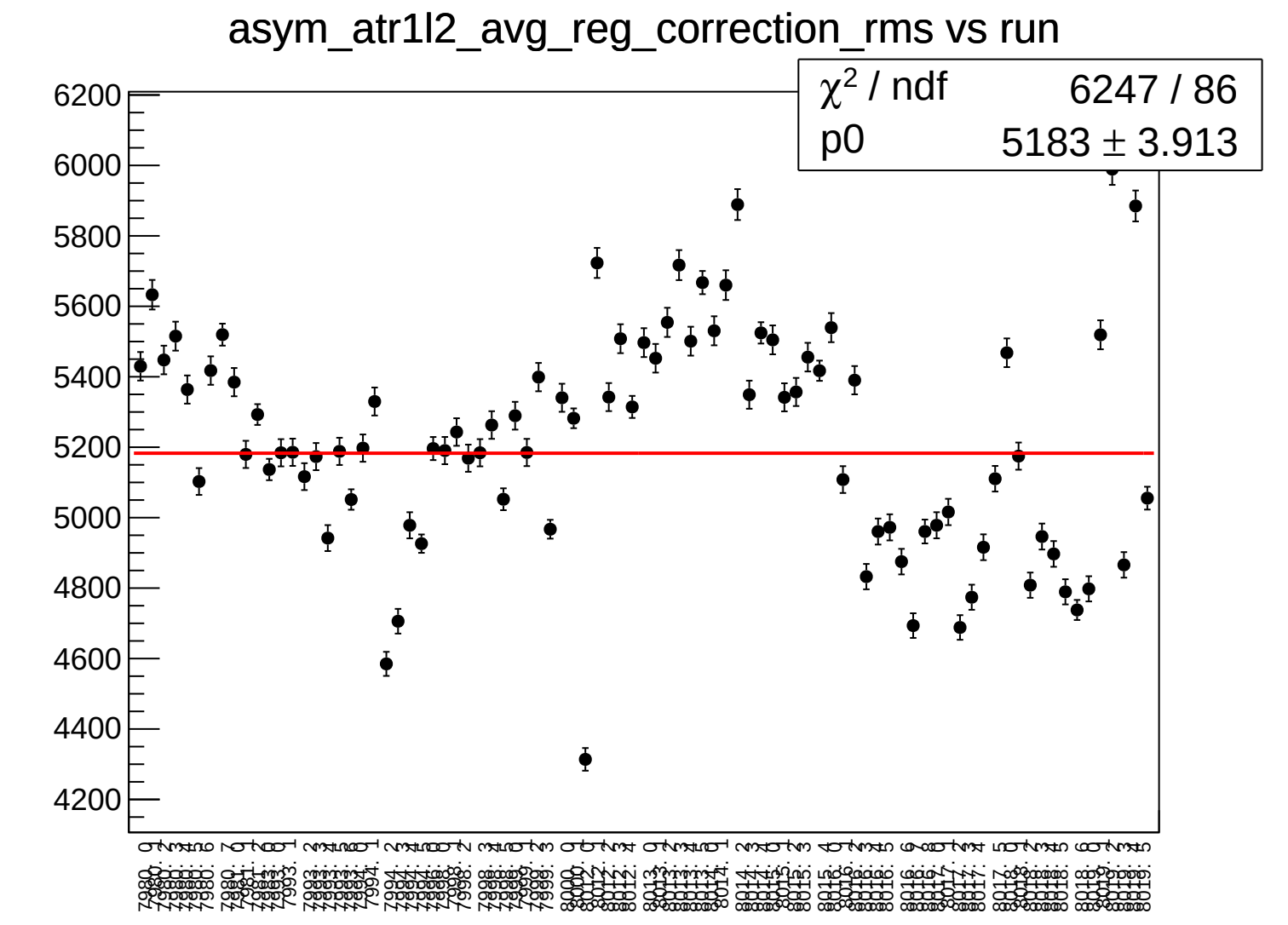

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 95.35 / 86
p0 1182 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 216
Std Dev 0
3
2
1
0
−1
−2

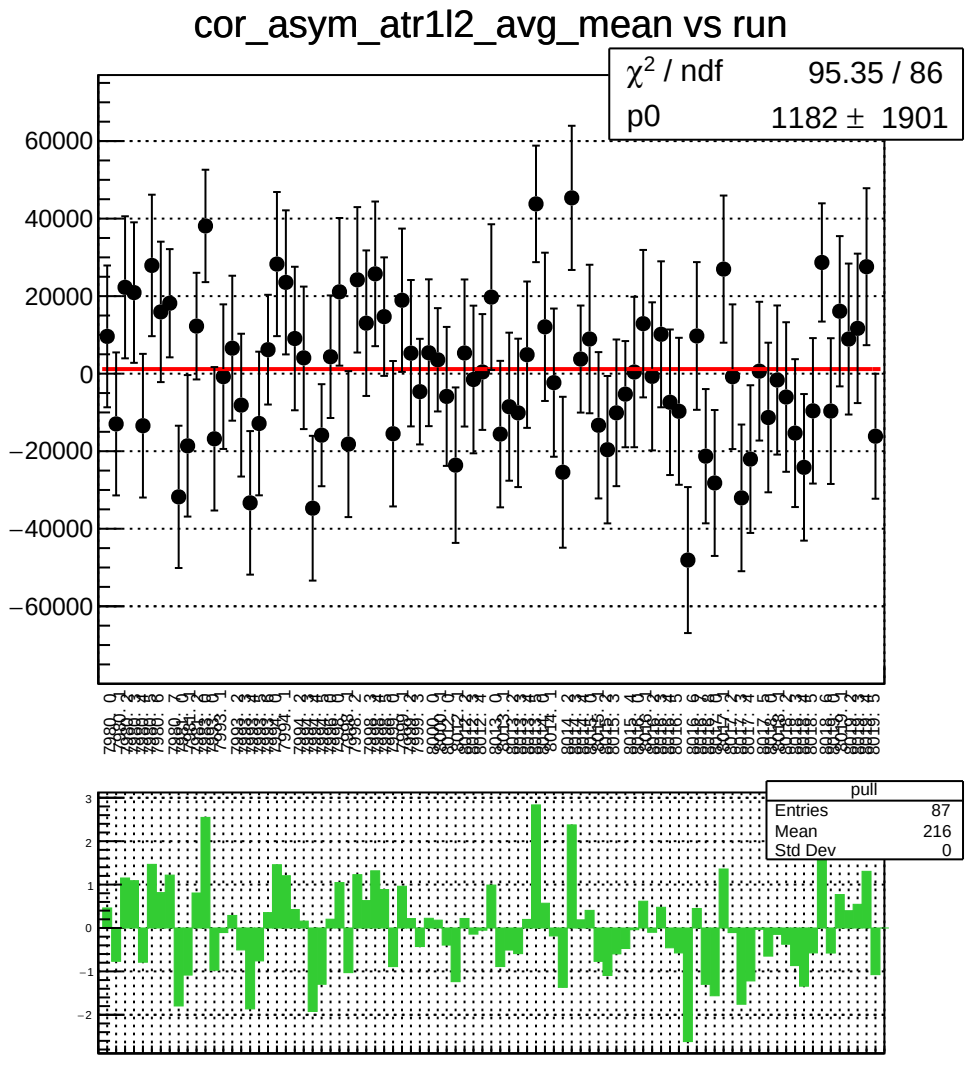

pull1D
Entries 87
Mean −0.02316
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

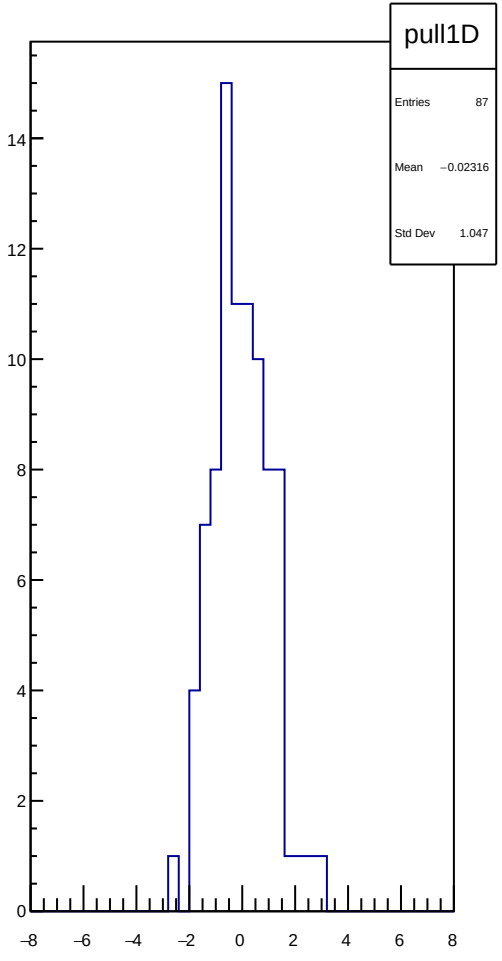

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 693.1 / 86
p0 1783 ± 1.344
1950
1900
1850
1800
1750
1700

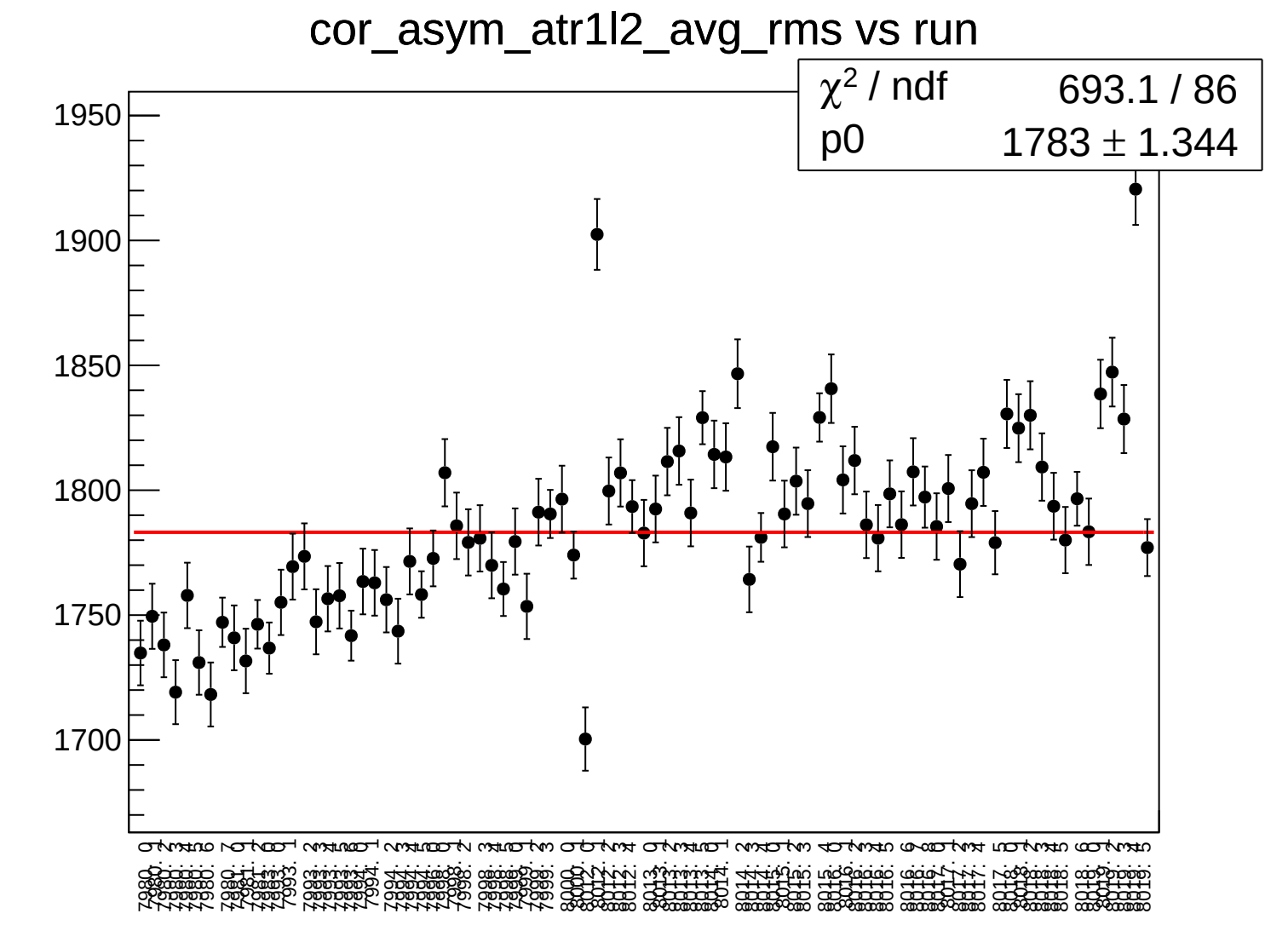

asym_atr1l2_avg_reg_correction_mean vs run
χ² / ndf 81.99 / 86
p0 −1.172e+04 ± 5534
pull
Entries 87
Mean 45.22
Std Dev 98.62

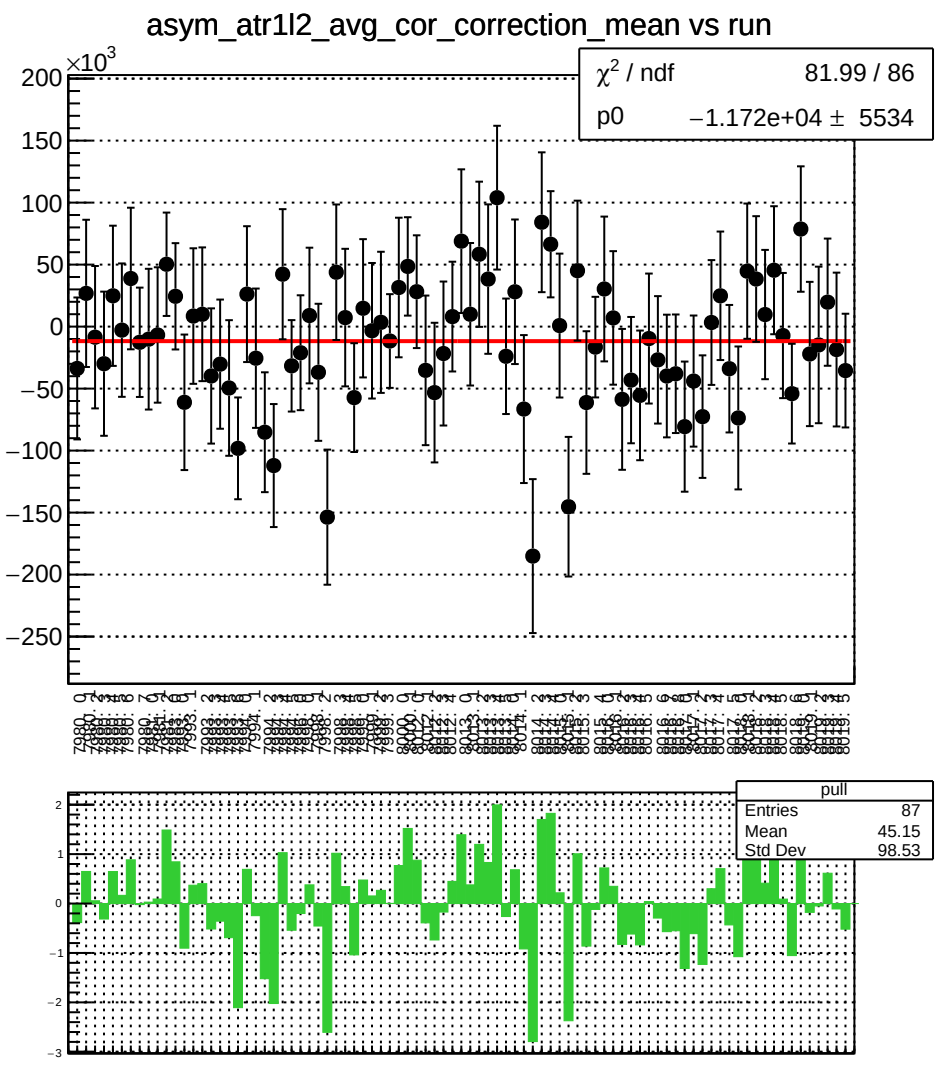

pull1D
Entries 87
Mean 0.001747
Std Dev 0.9708

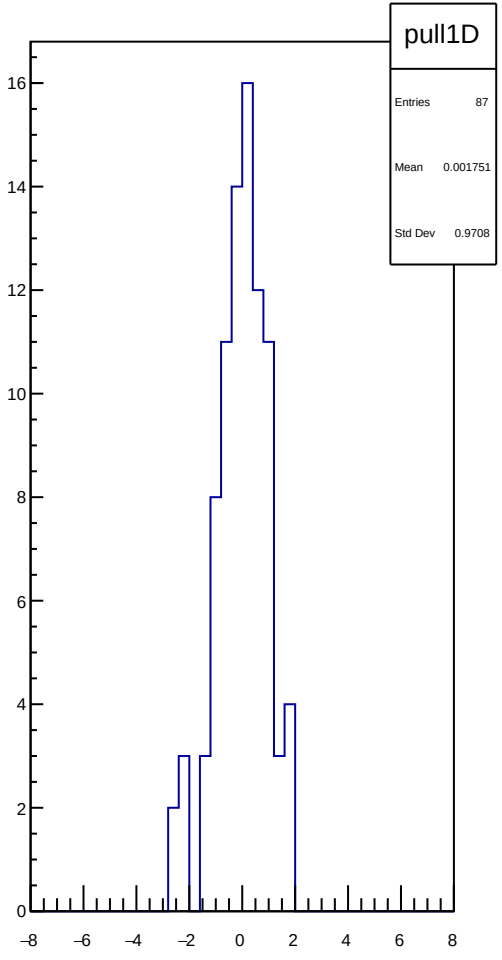

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 6247 / 86
p0 5183 ± 3.913
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

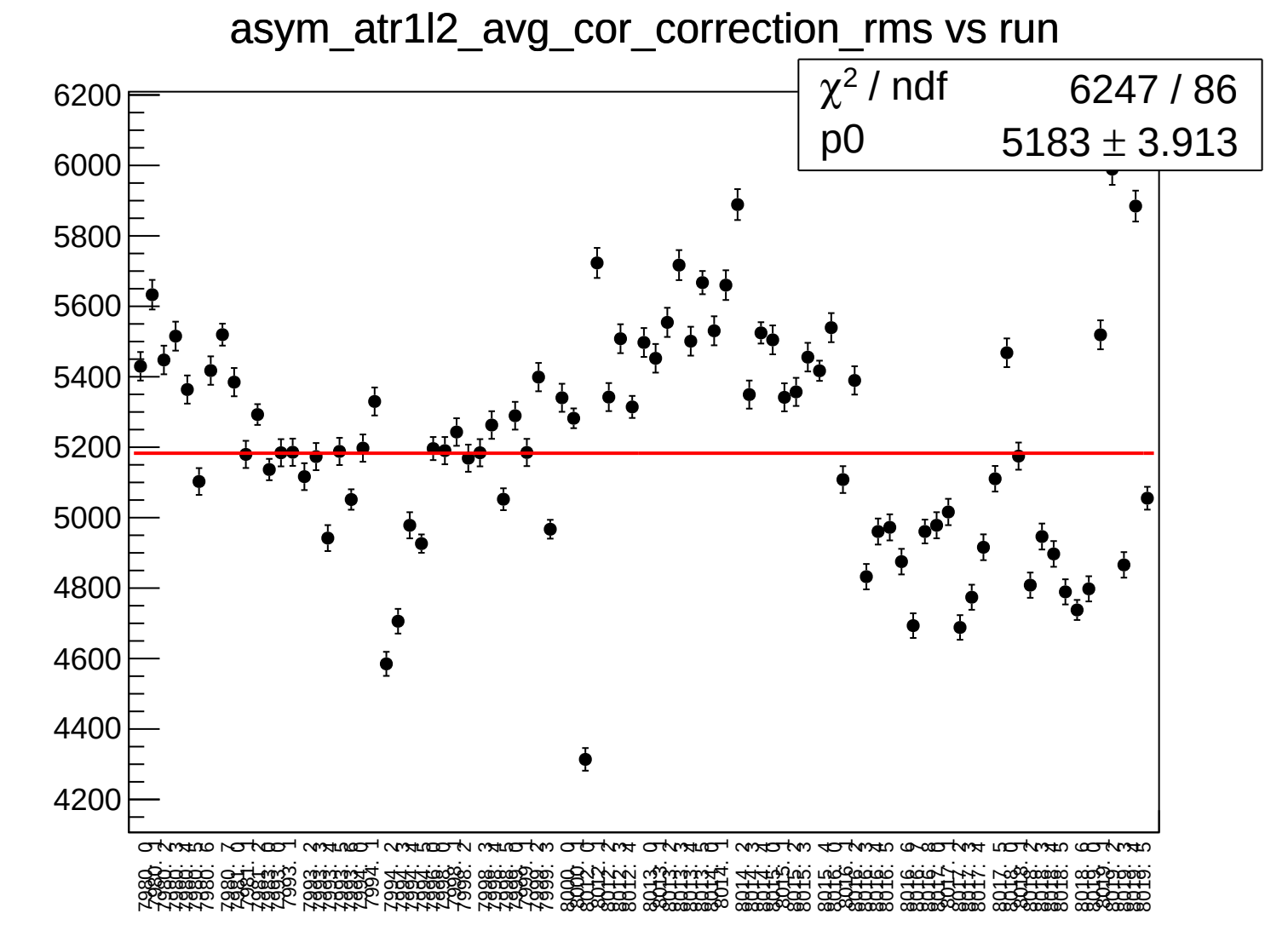

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 95.35 / 86
p0 1182 ± 1901
pull
Entries 87
Mean 216
Std Dev 0

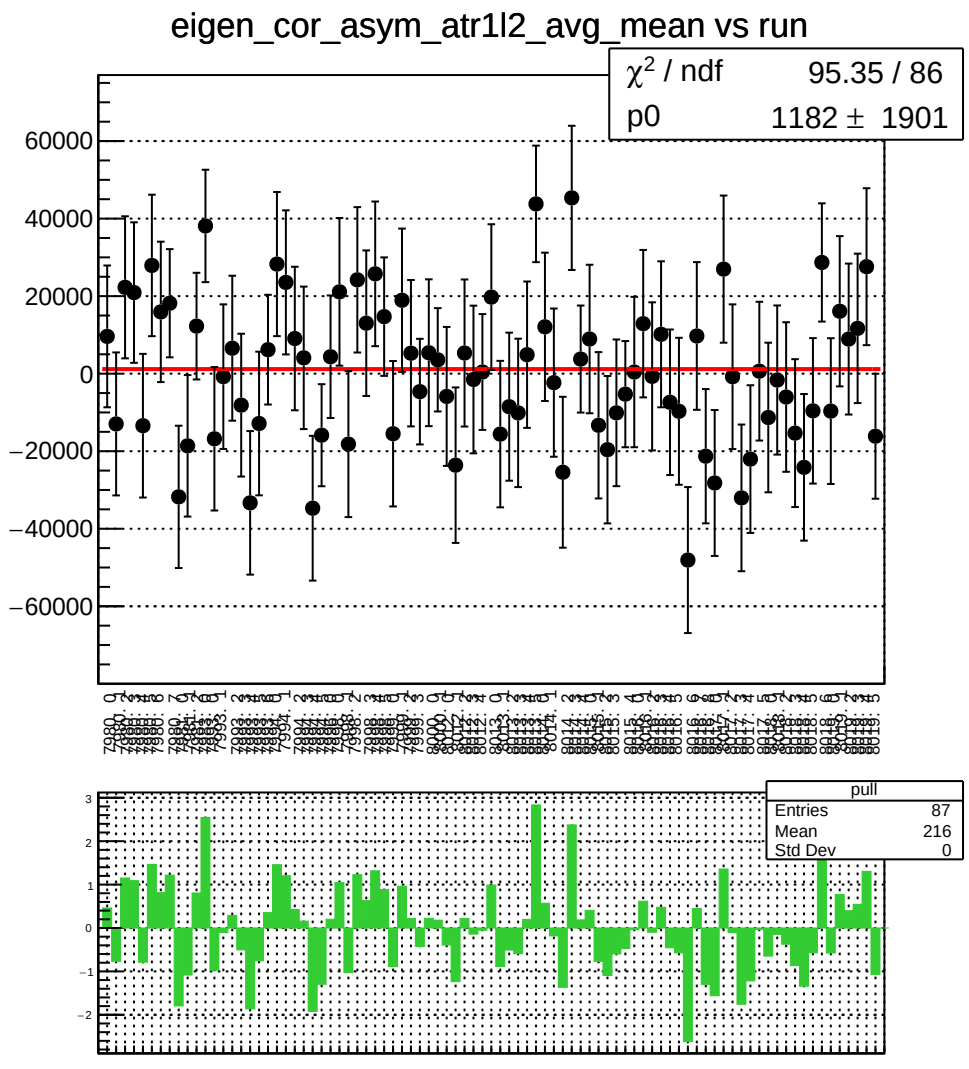

pull1D
Entries 87
Mean −0.02316
Std Dev 1.047

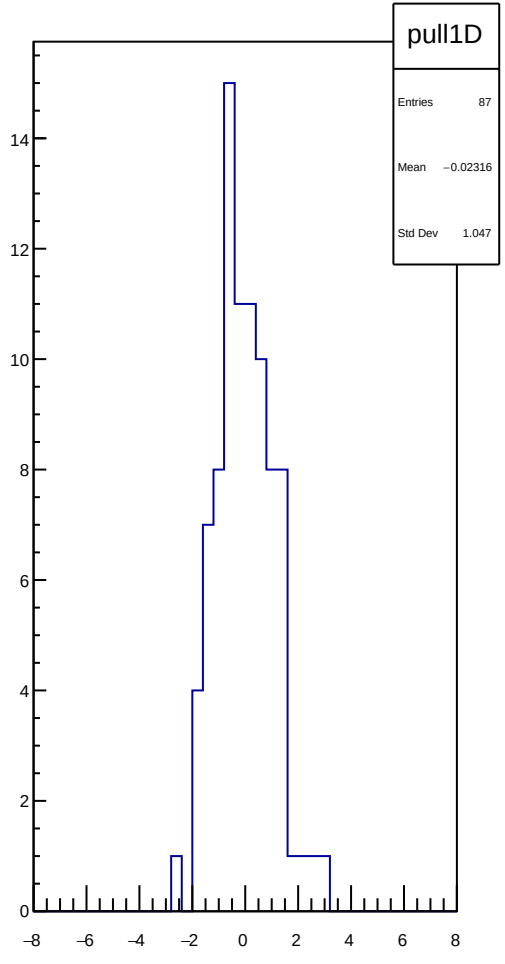

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 693.1 / 86
p0 1783 ± 1.344
1950
1900
1850
1800
1750
1700

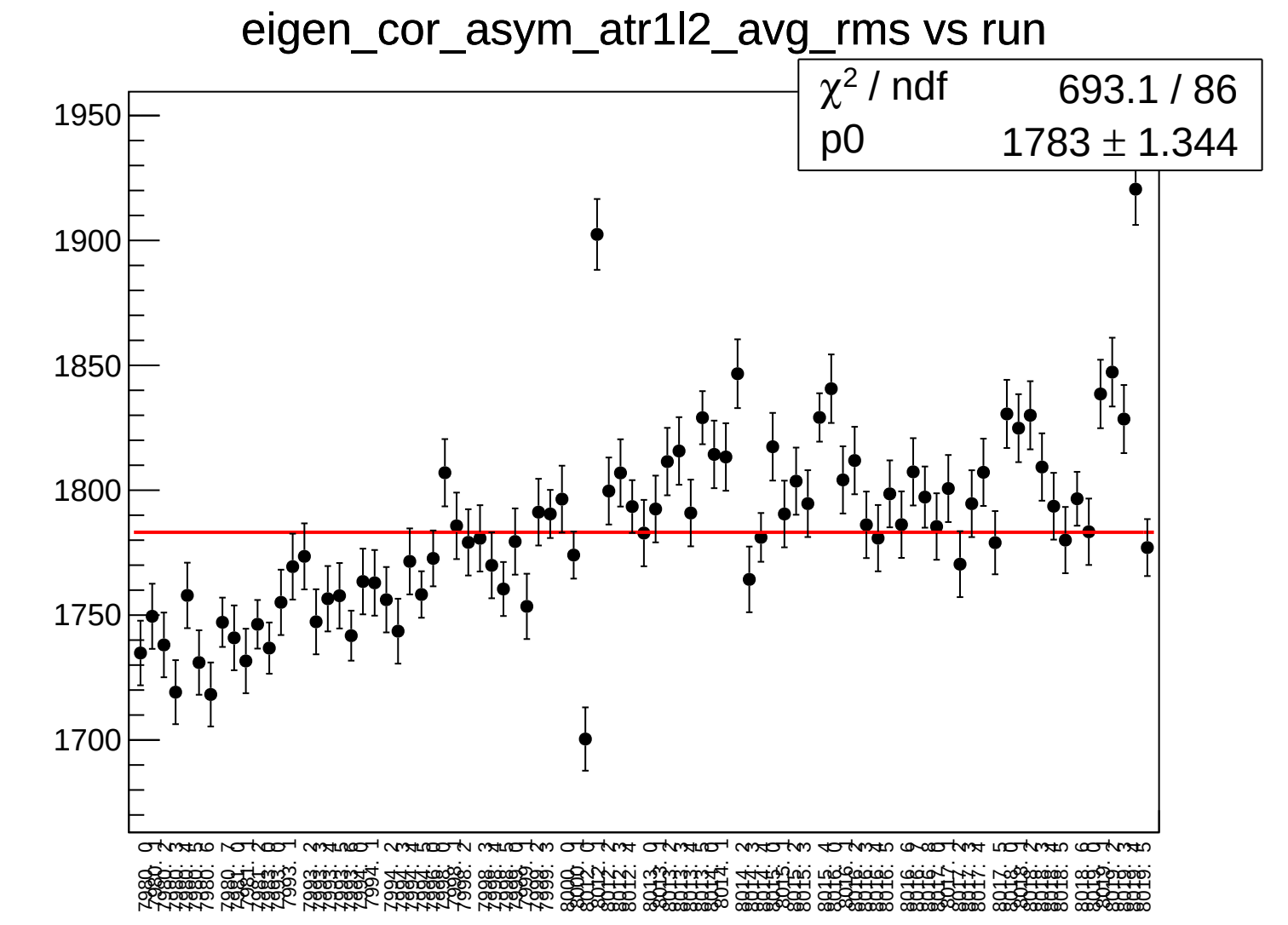

asym_atr1l2_avg_cor_correction_mean vs run
χ² / ndf 81.99 / 86
p0 −1.172e+04 ± 5534
×10³
pull
Entries 87
Mean 45.15
Std Dev 98.53

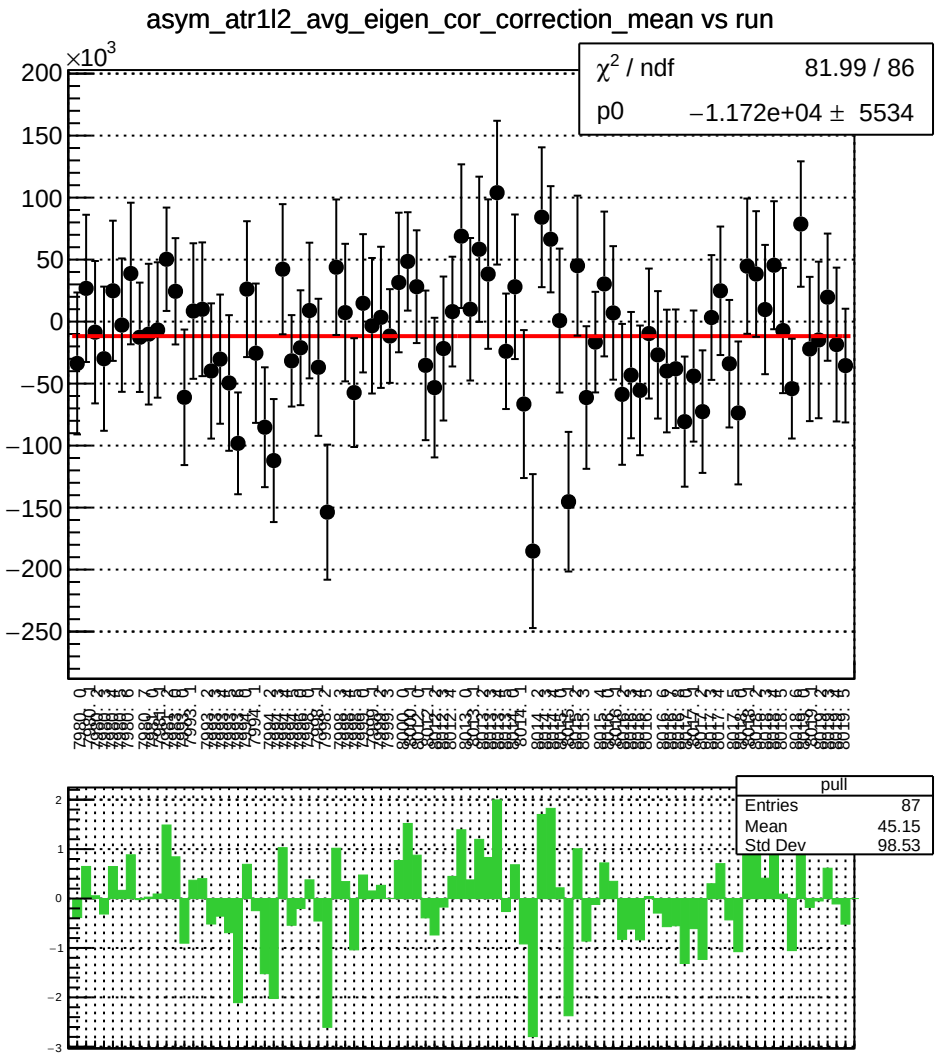

pull1D
Entries 87
Mean 0.001751
Std Dev 0.9708

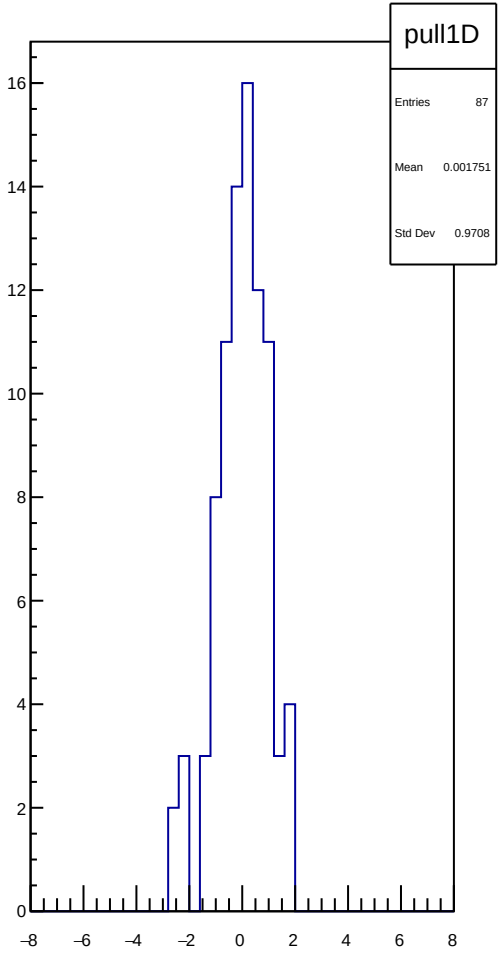

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 6247 / 86
p0 5183 ± 3.913
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

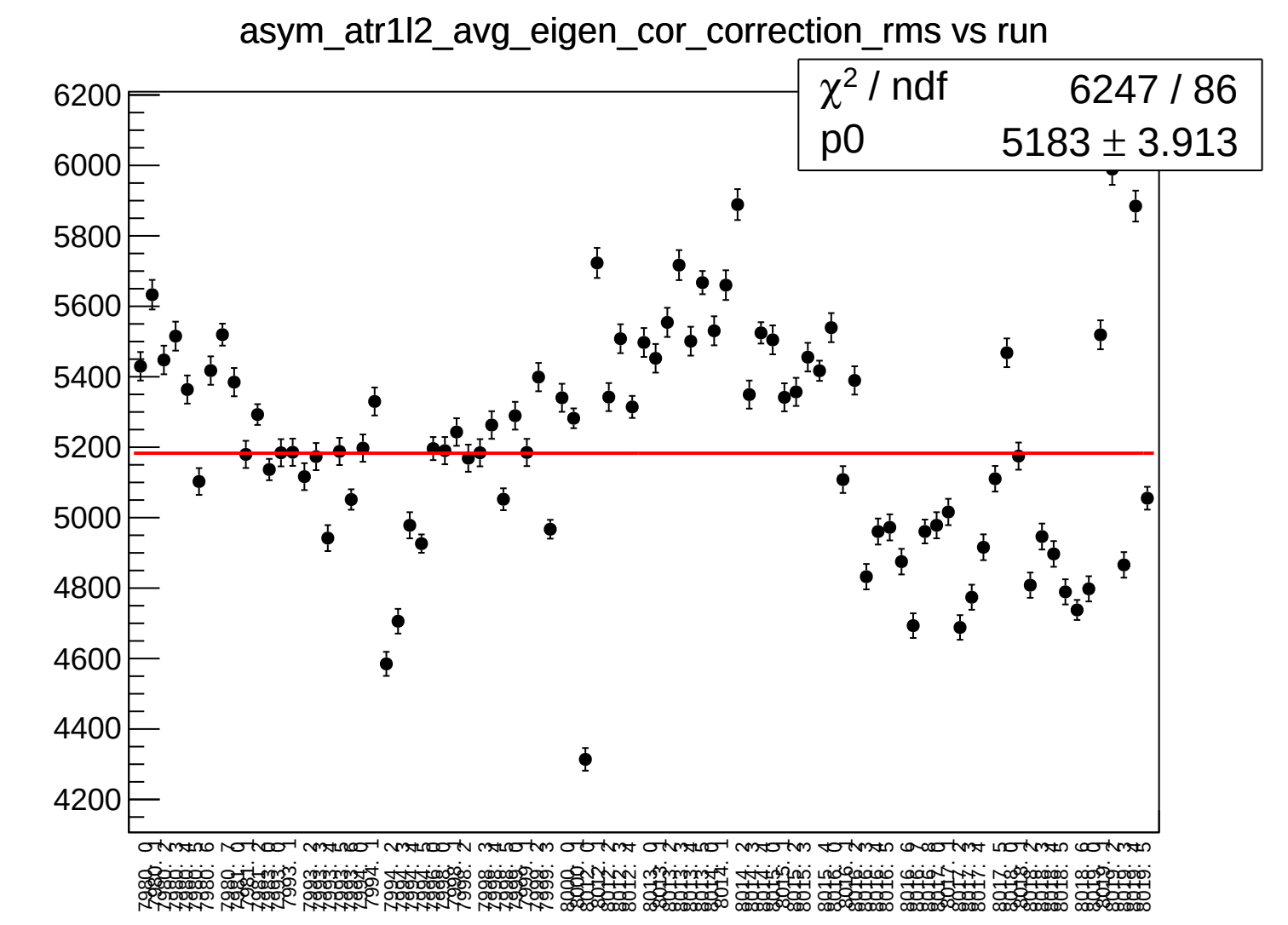

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 95.35 / 86
p0 1182 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 216
Std Dev 0
3
2
1
0
−1
−2

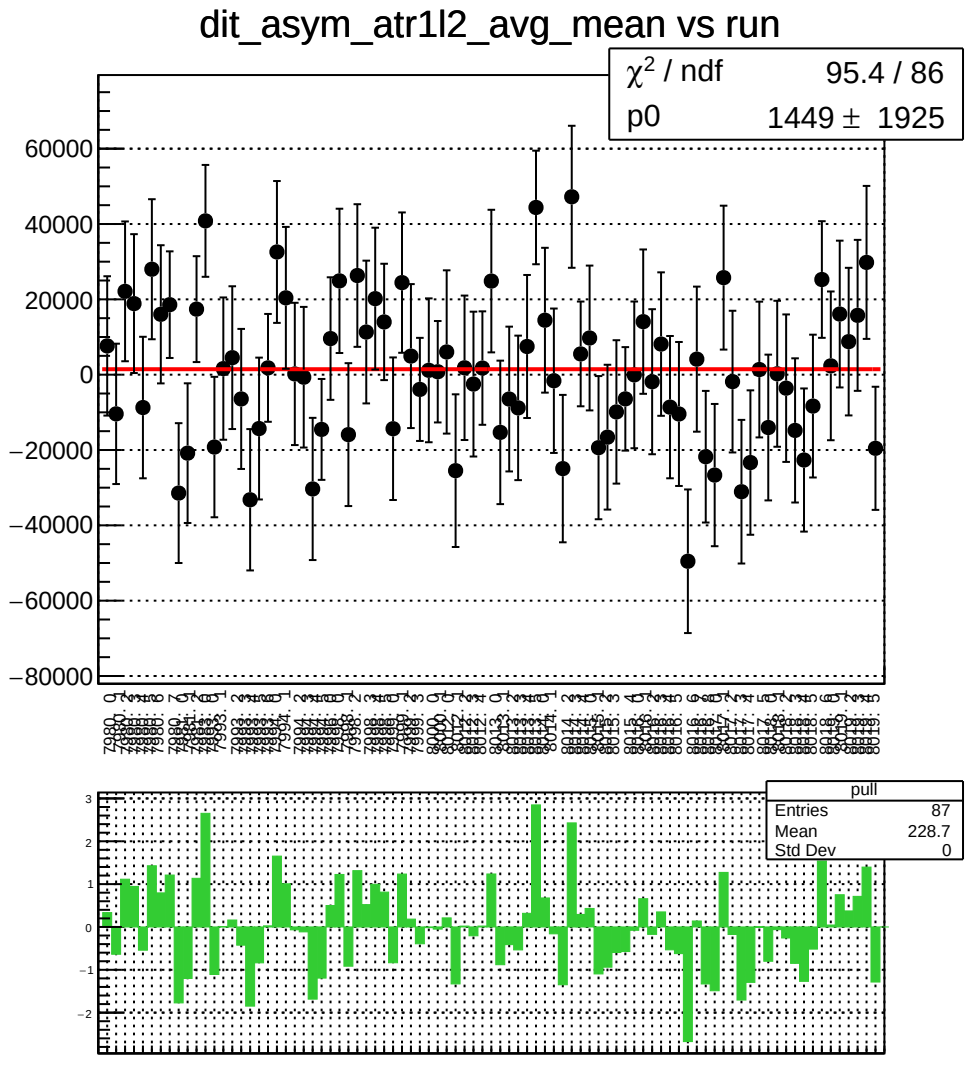

pull1D
Entries 87
Mean −0.02316
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

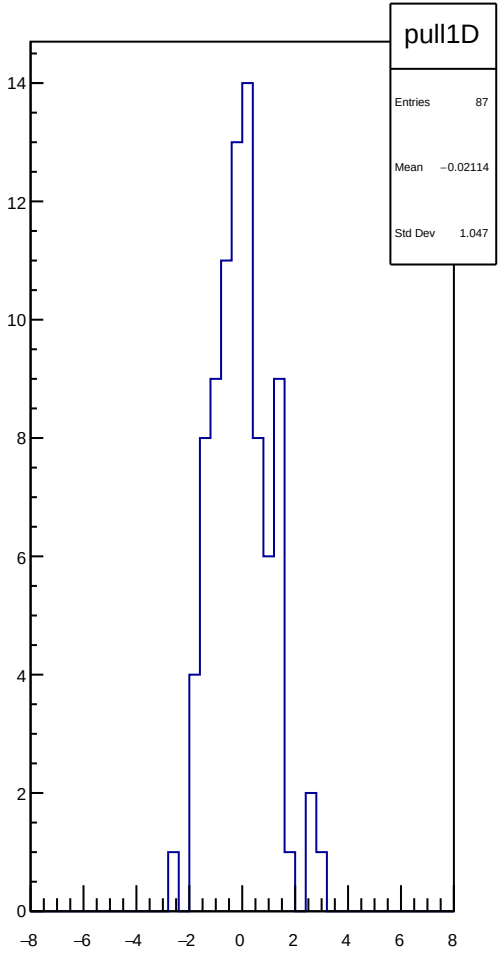

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 693.1 / 86
p0 1783 ± 1.344
1950
1900
1850
1800
1750
1700

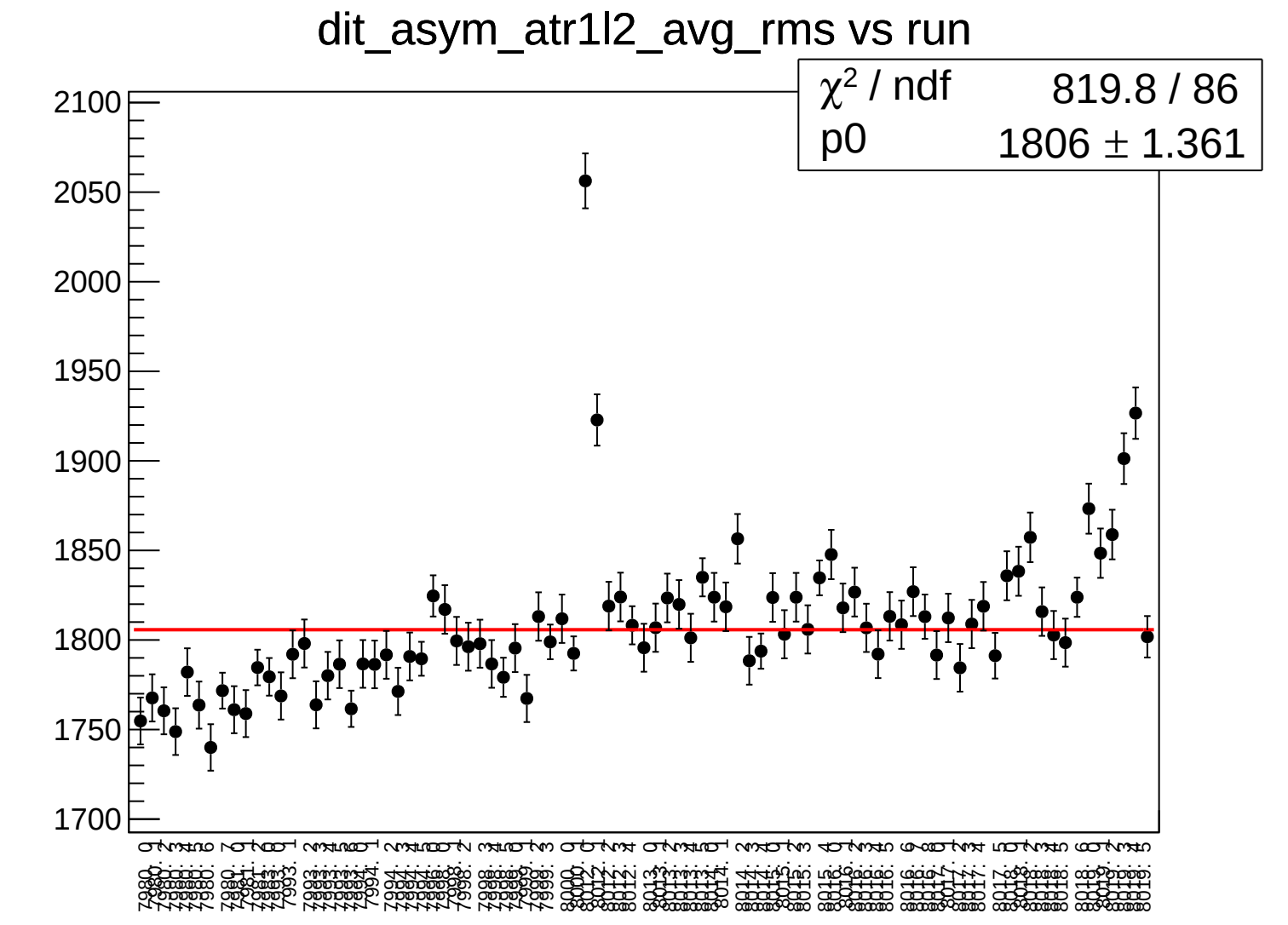

asym_atr1l2_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.99 / 86
p0 −1.172e+04 ± 5534
×10³
pull
Entries 87
Mean 45.15
Std Dev 98.53

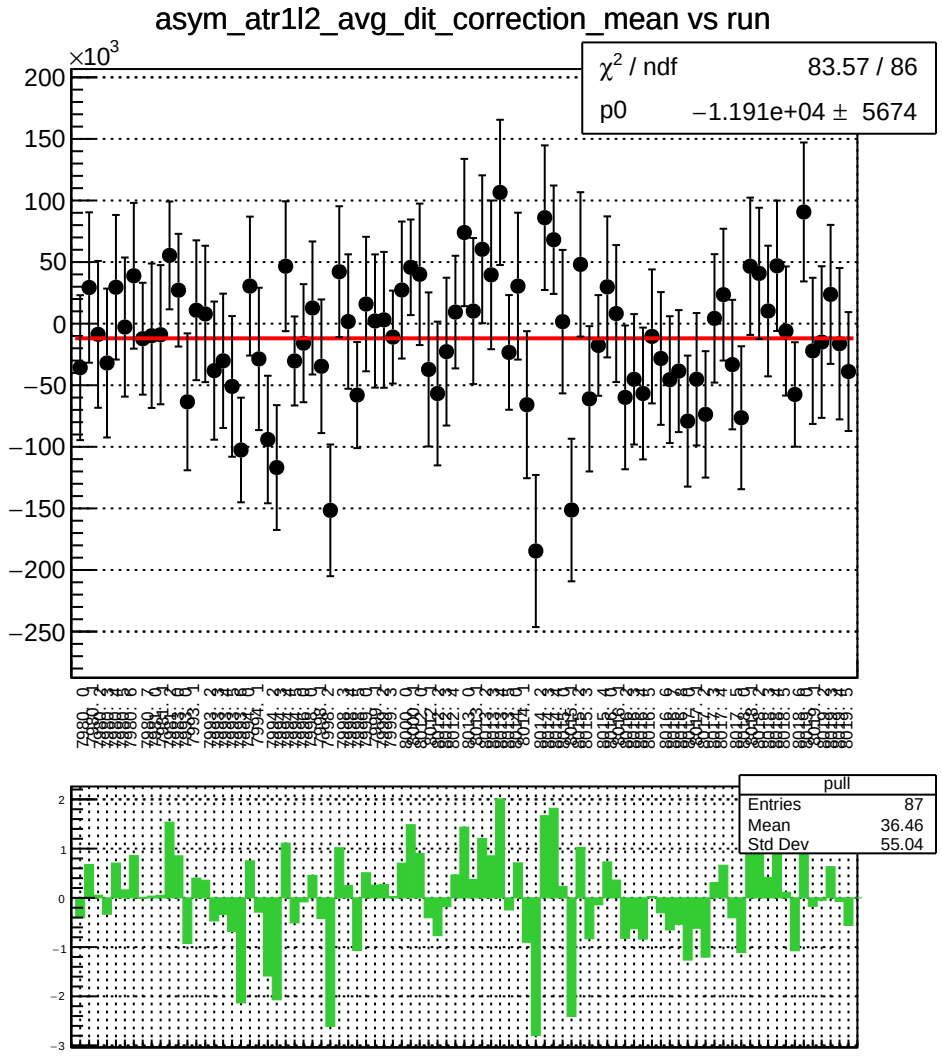

pull1D
Entries 87
Mean 0.001751
Std Dev 0.9708

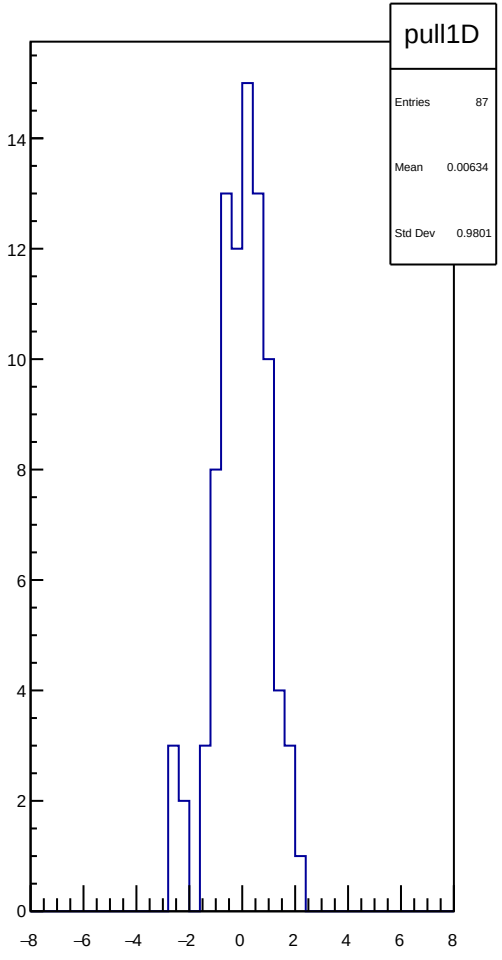

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6247 / 86
p0 5183 ± 3.913
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

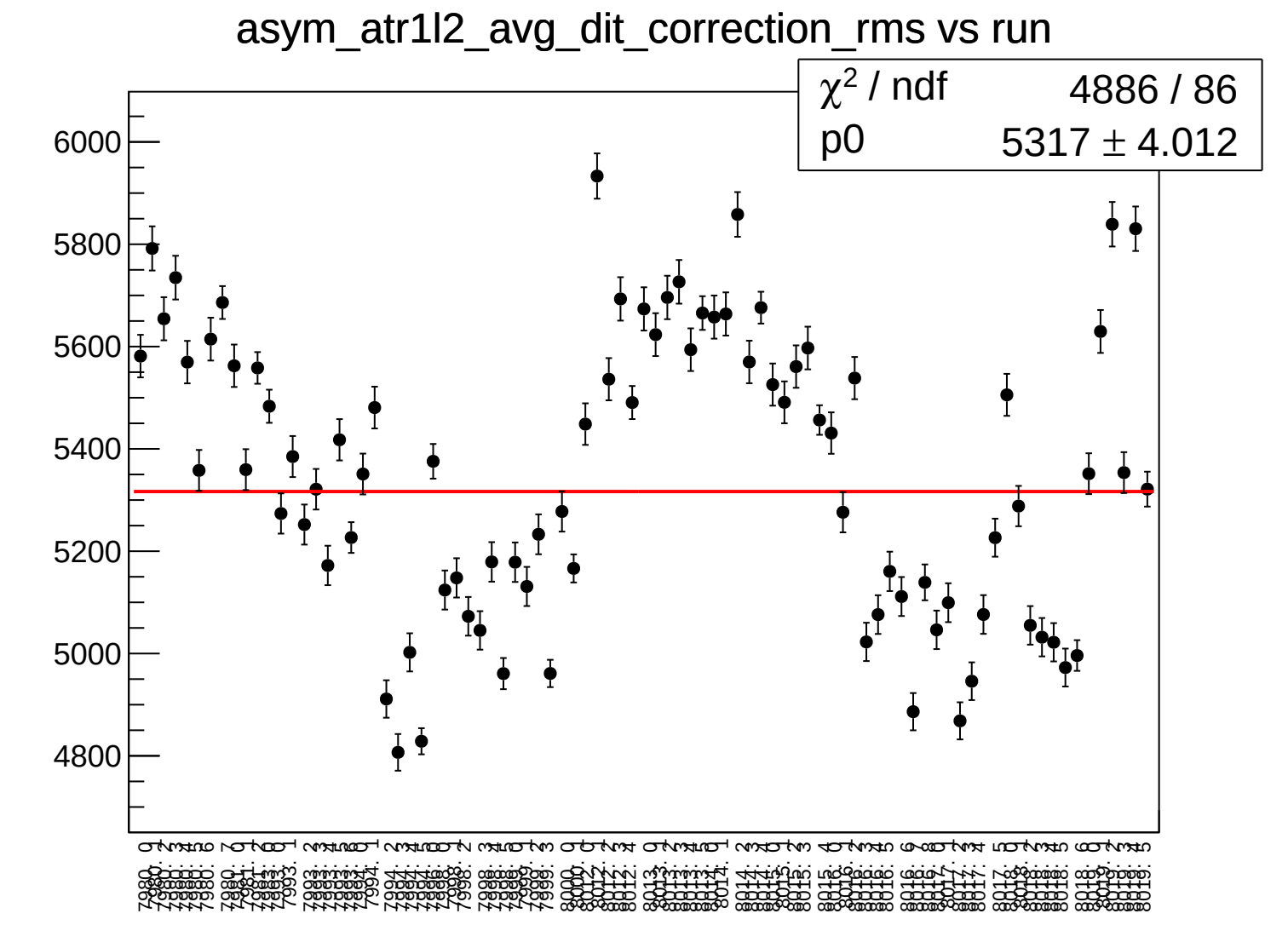

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 95.4 / 86
p0 1449 ± 1925
pull
Entries 87
Mean 228.7
Std Dev 0

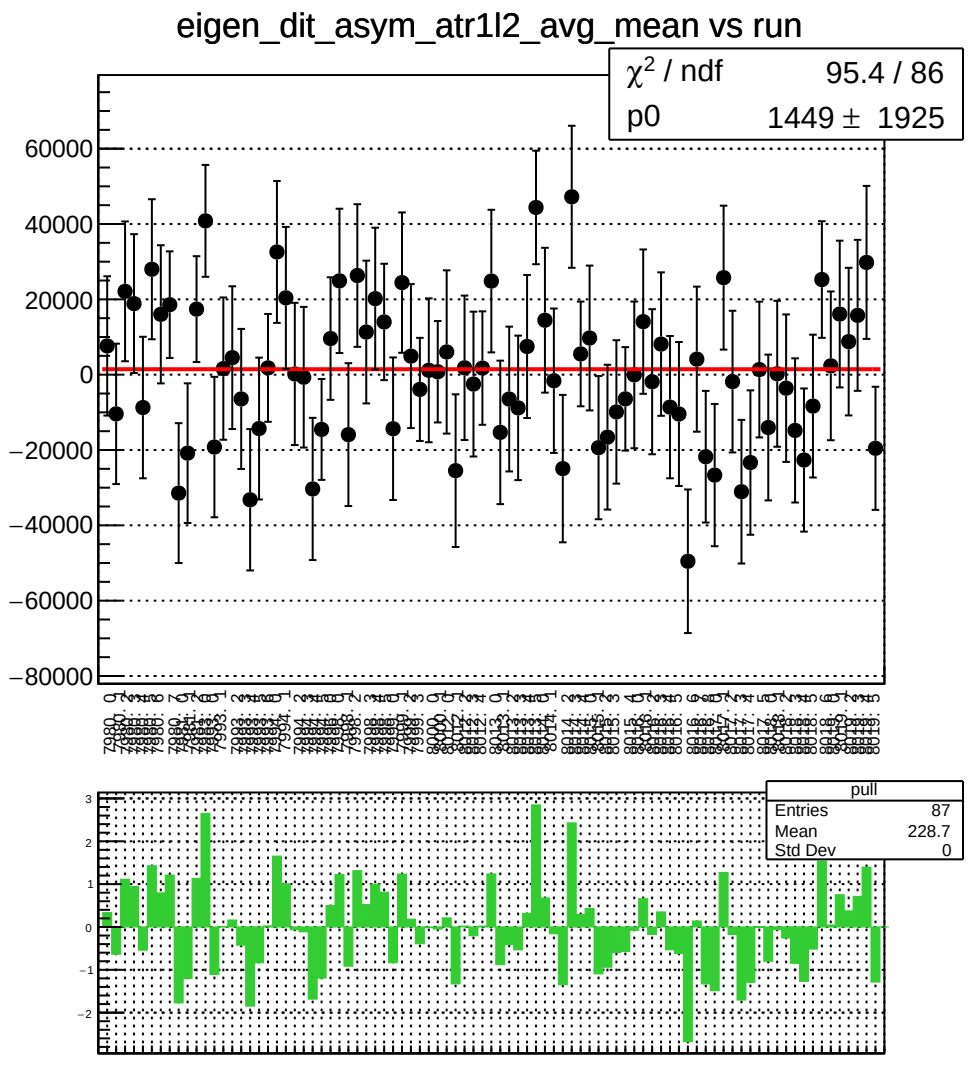

pull1D
Entries 87
Mean −0.02114
Std Dev 1.047

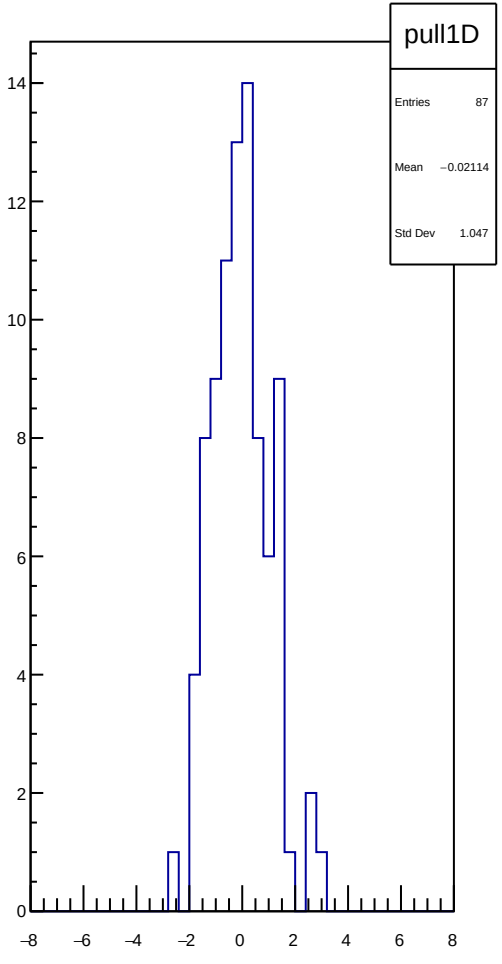

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 819.8 / 86
p0 1806 ± 1.361
2100
2050
2000
1950
1900
1850
1800
1750
1700

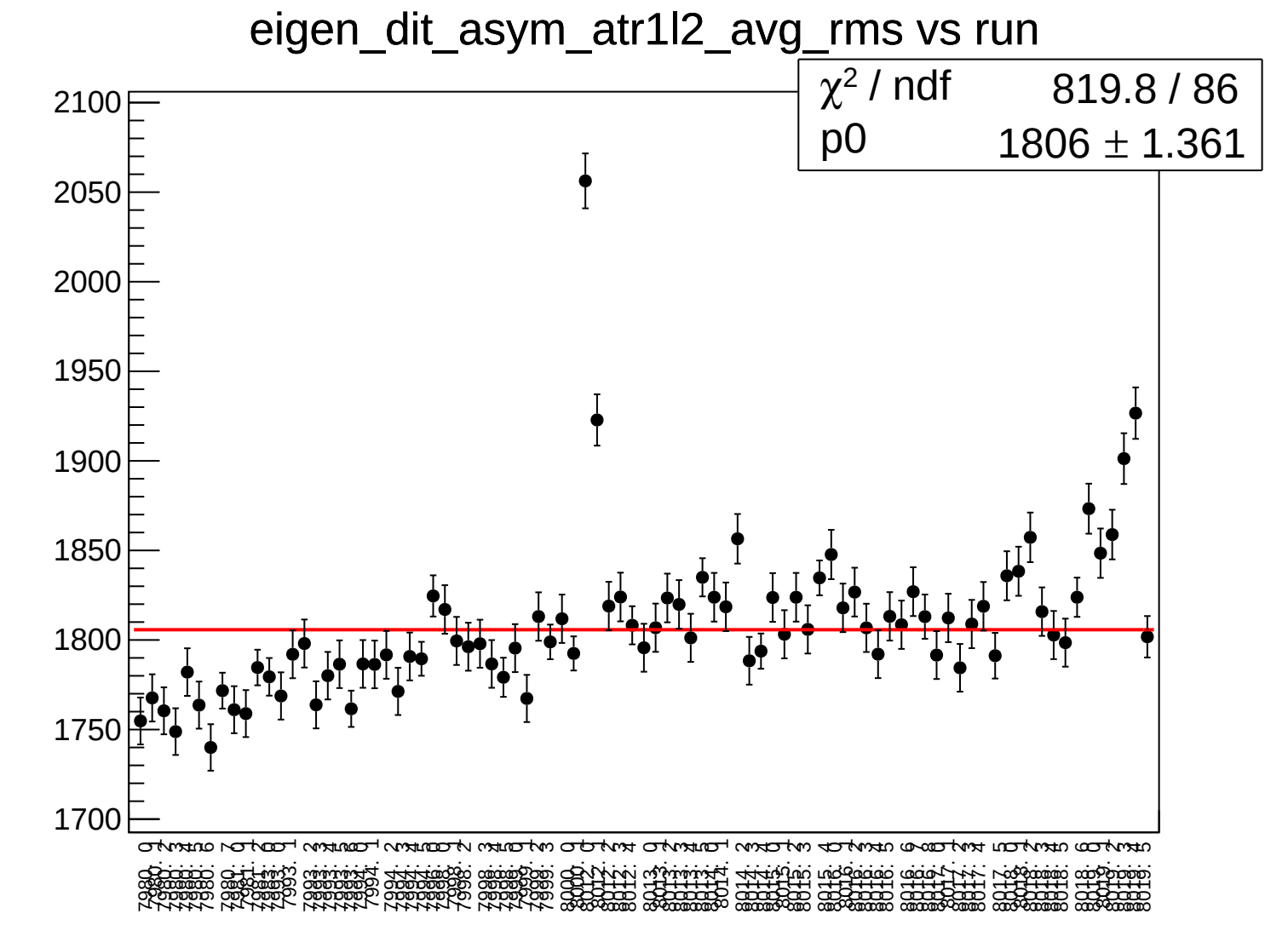

asym_atr1l2_avg_dit_correction_mean vs run
χ² / ndf 83.57 / 86
p0 −1.191e+04 ± 5674
pull
Entries 87
Mean 36.46
Std Dev 55.04

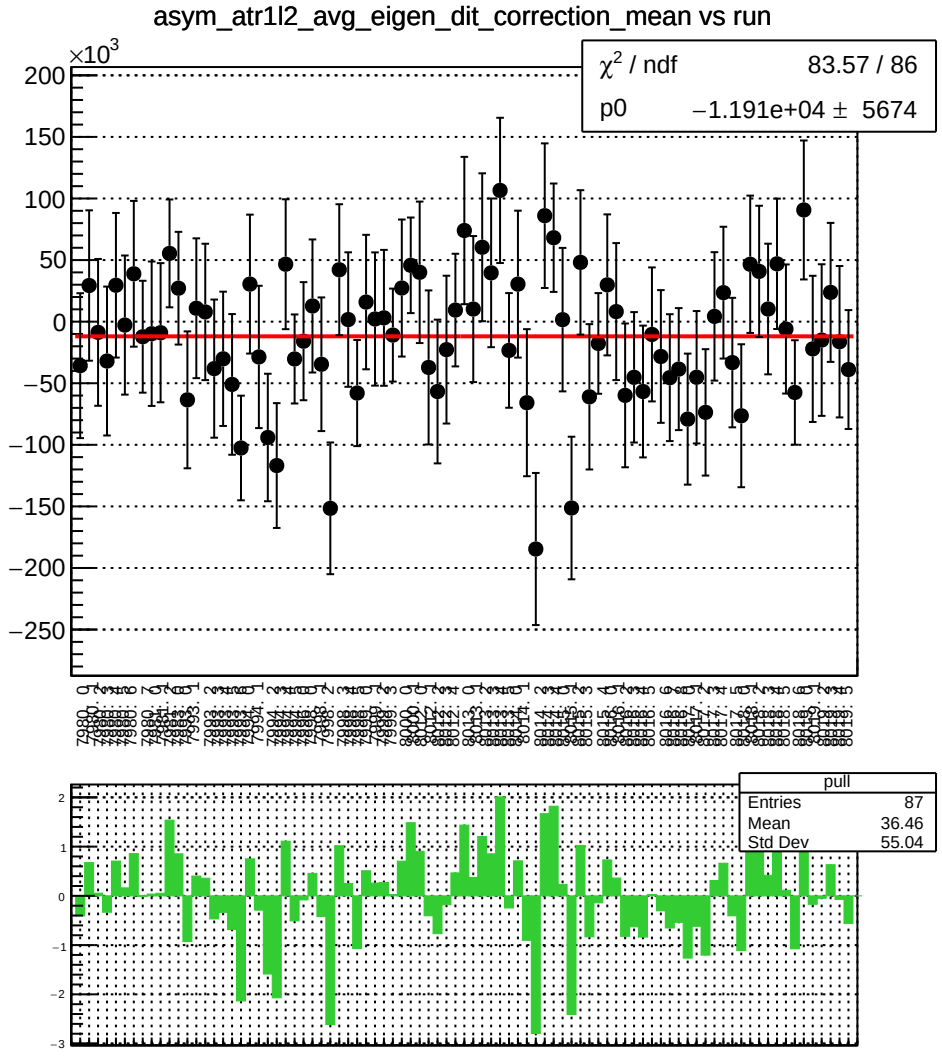

pull1D
Entries 87
Mean 0.00634
Std Dev 0.9801

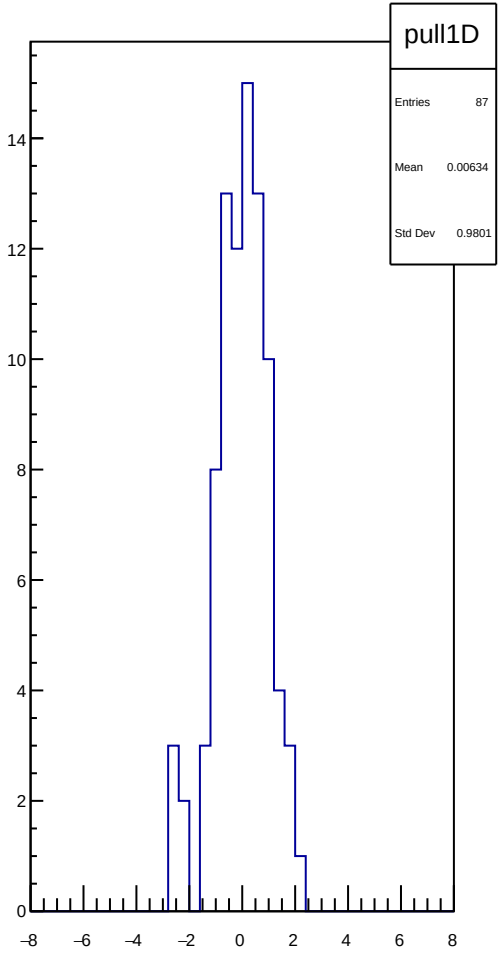

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 4886 / 86
p0 5317 ± 4.012
6000
5800
5600
5400
5200
5000
4800

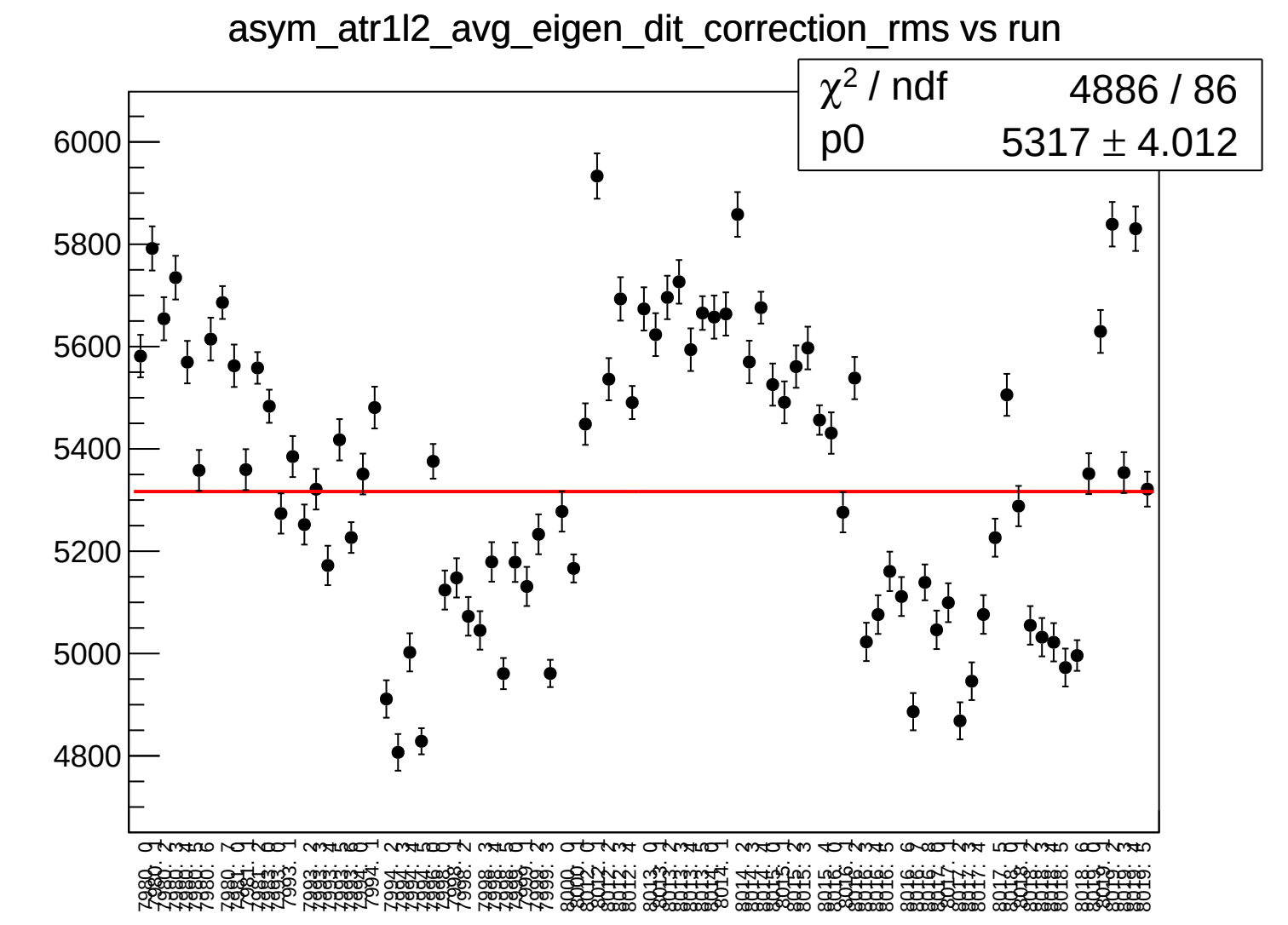

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 95.4 / 86
p0 1449 ± 1925
pull
Entries 87
Mean 228.7
Std Dev 0

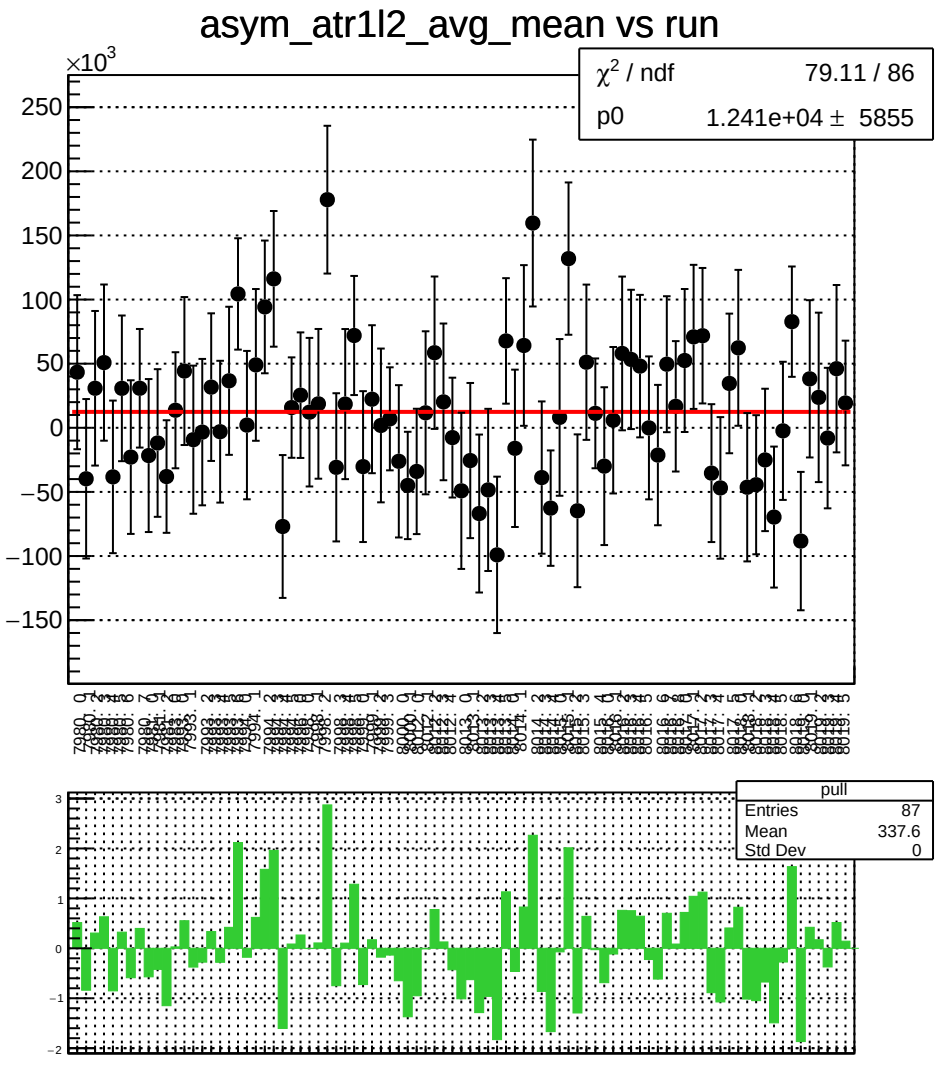

pull1D
Entries 87
Mean −0.02114
Std Dev 1.047

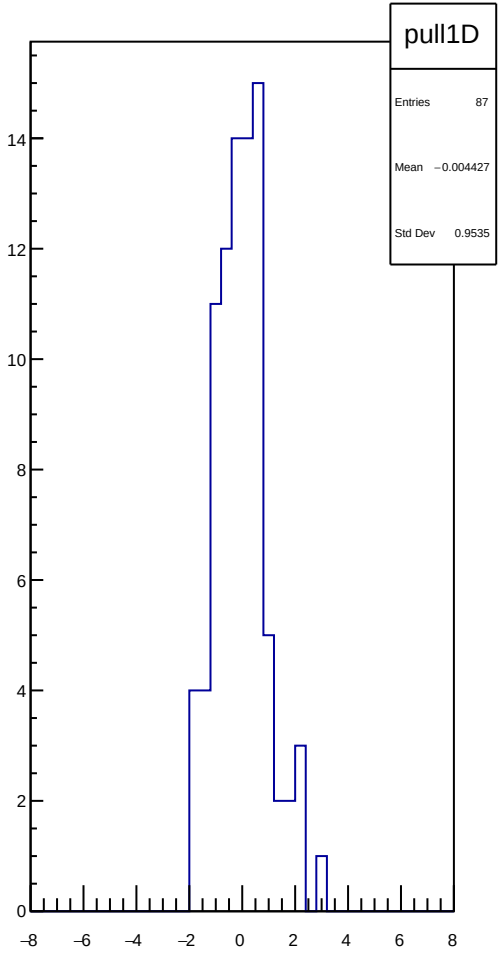

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 819.8 / 86
p0 1806 ± 1.361
2100
2050
2000
1950
1900
1850
1800
1750
1700

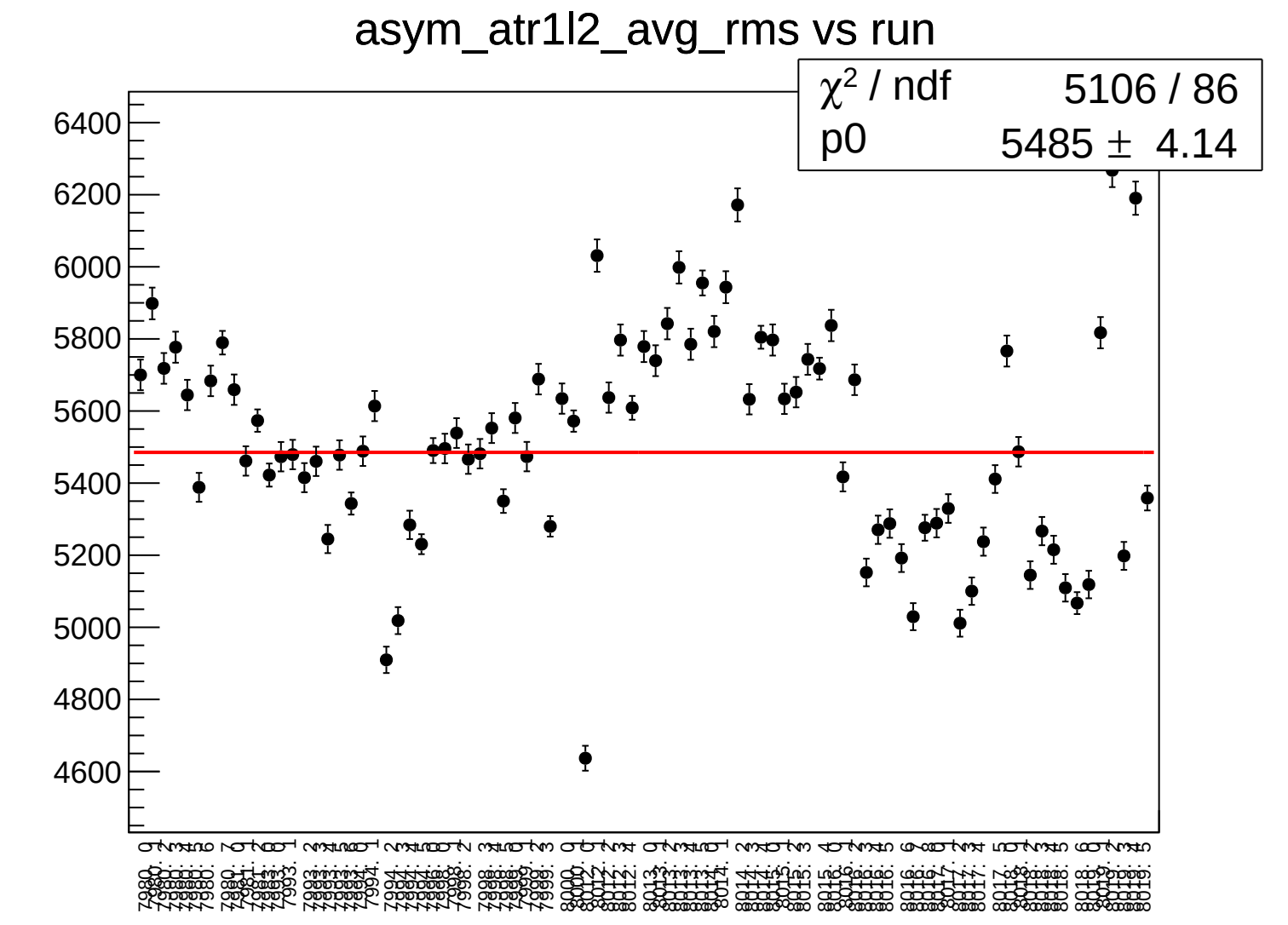

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.57 / 86
p0 −1.191e+04 ± 5674
pull
Entries 87
Mean 36.46
Std Dev 55.04

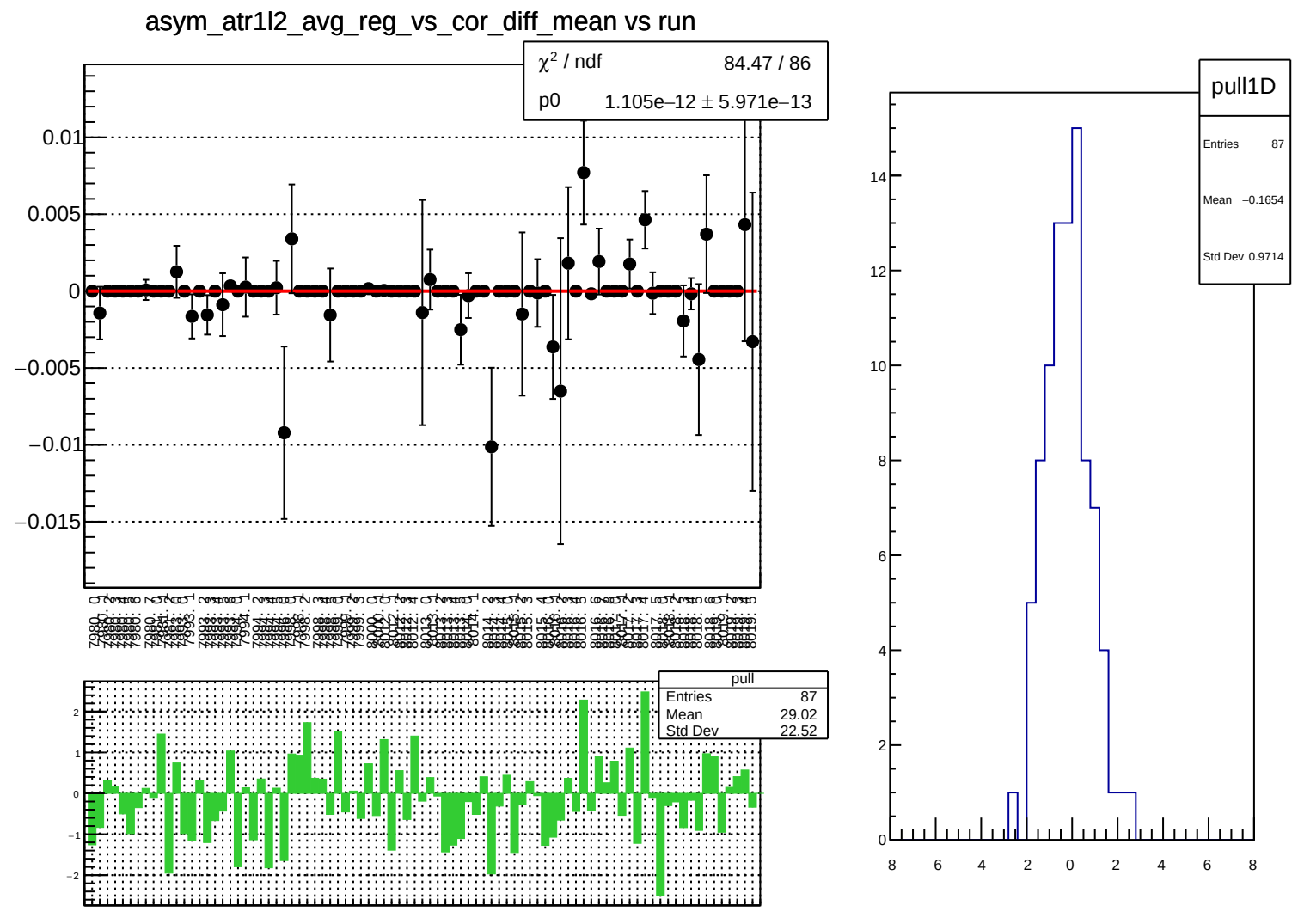

pull1D
Entries 87
Mean 0.00634
Std Dev 0.9801

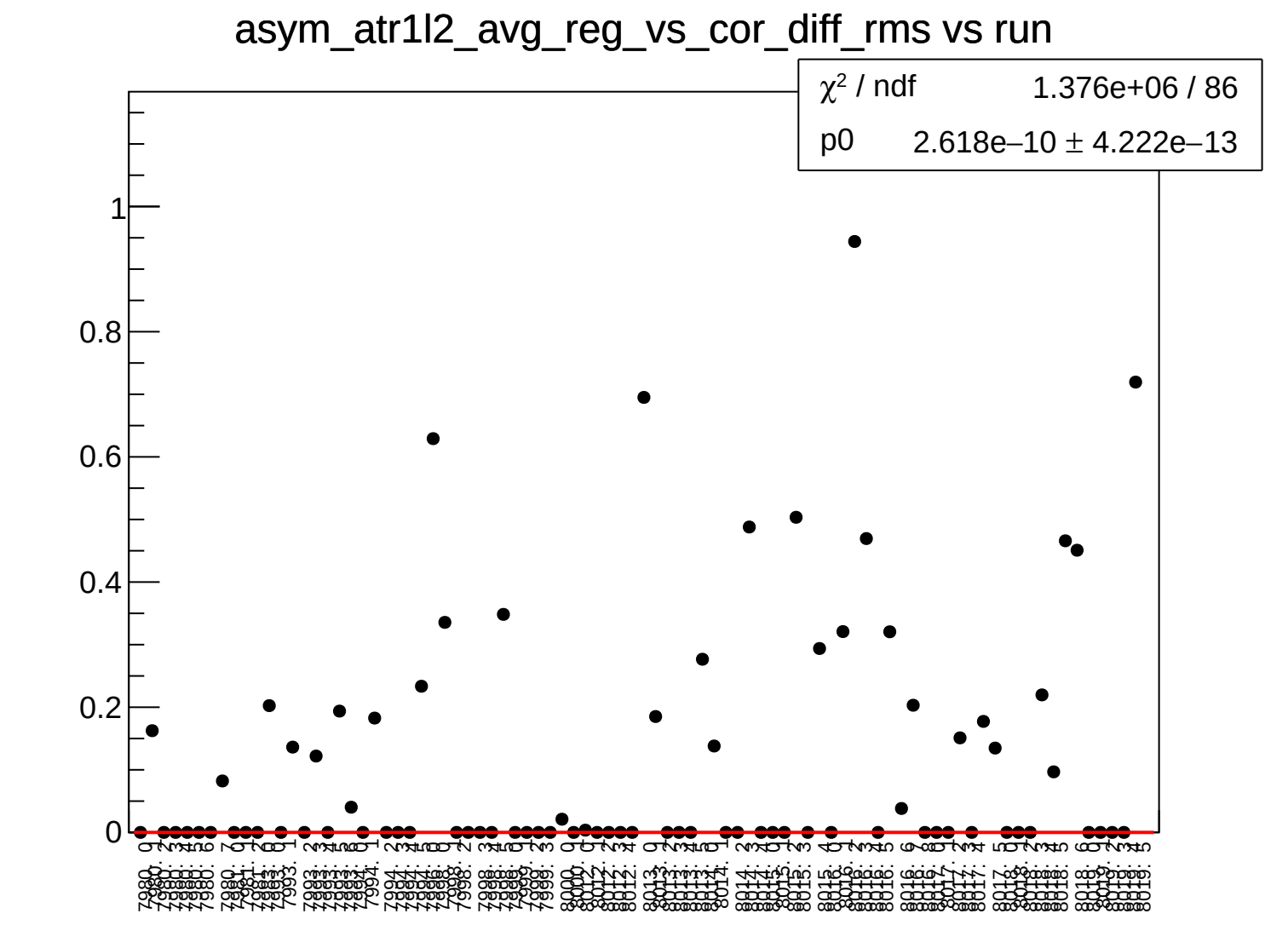

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4886 / 86
p0 5317 ± 4.012
6000
5800
5600
5400
5200
5000
4800

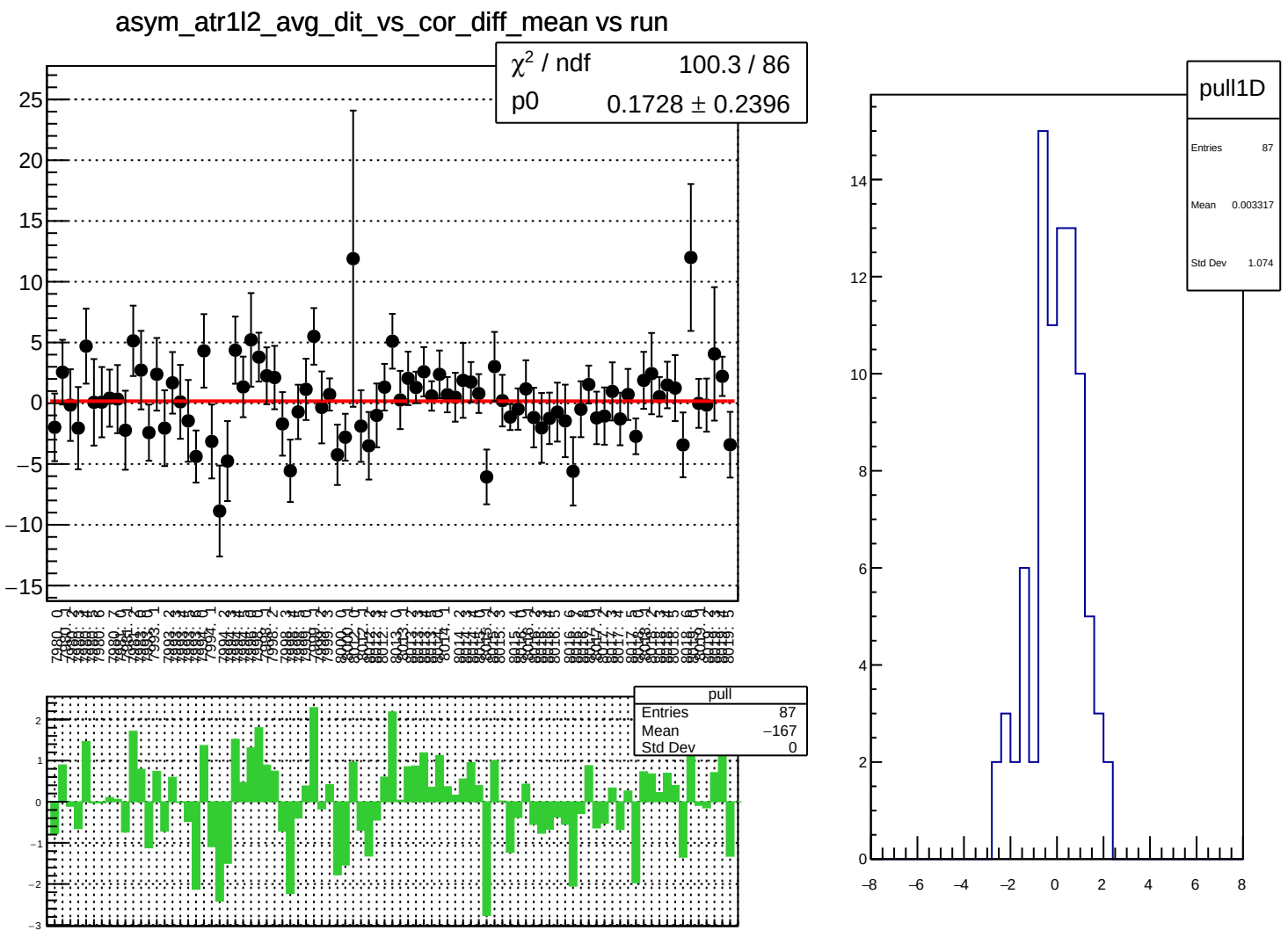

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 79.11 / 86
p0 1.241e+04 ± 5855
pull
Entries 87
Mean 337.6
Std Dev 0

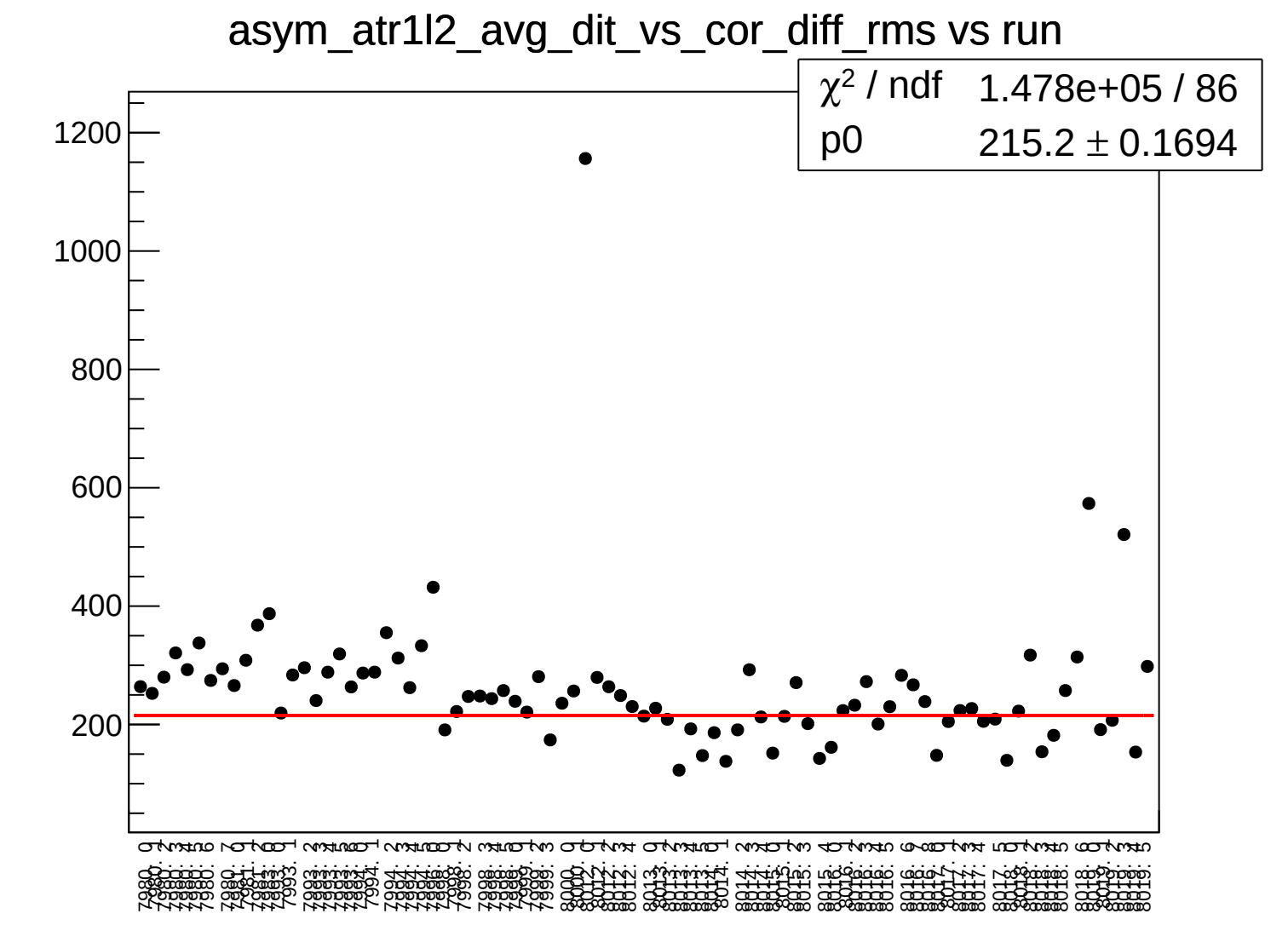

pull1D
Entries 87
Mean −0.004427
Std Dev 0.9535

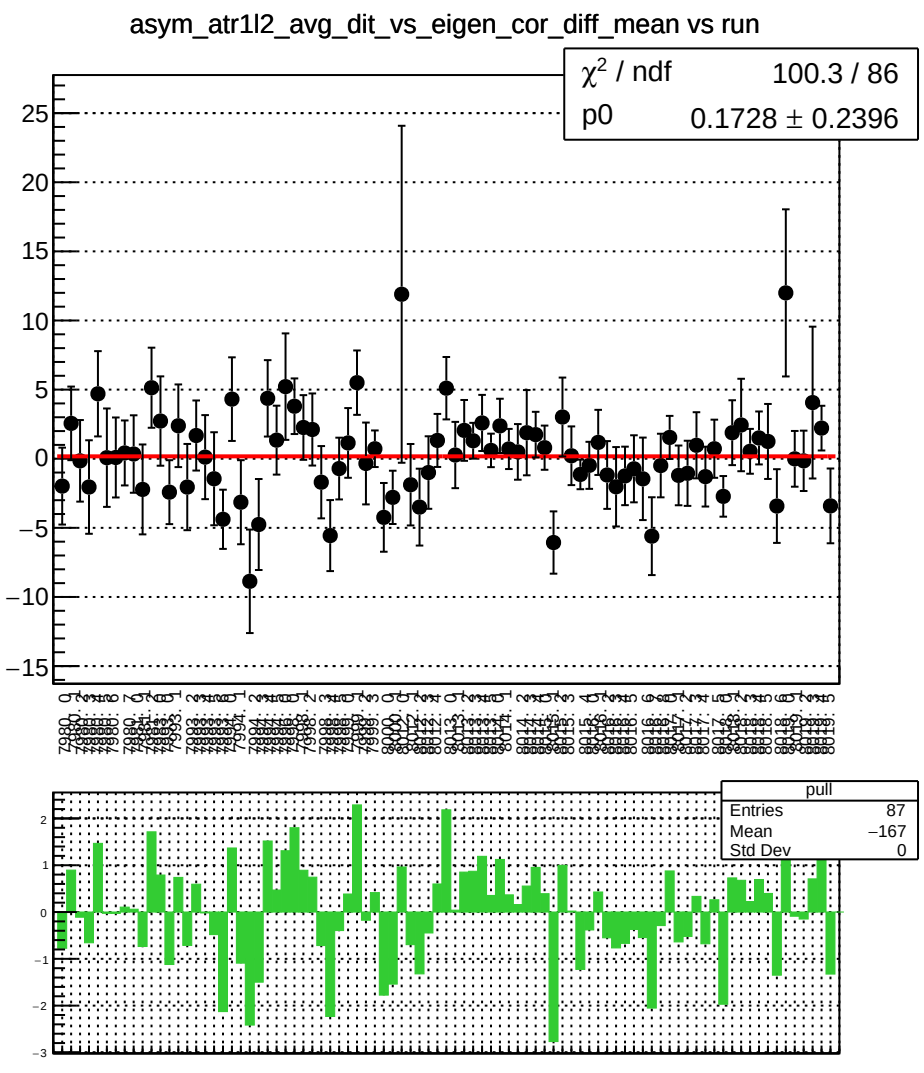

asym_atr1l2_avg_rms vs run
χ² / ndf 5106 / 86
p0 5485 ± 4.14
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

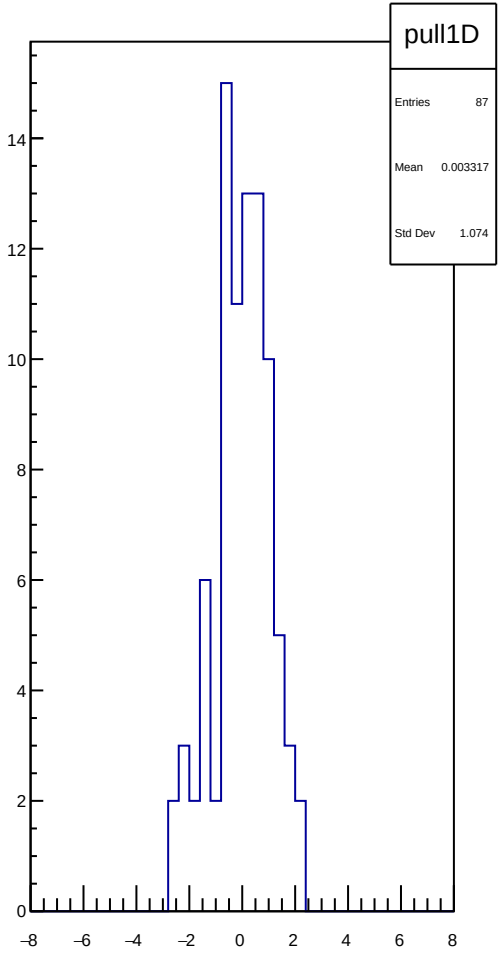

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.47 / 86
p0 1.105e−12 ± 5.971e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 87
Mean 29.02
Std Dev 22.52
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.1654
Std Dev 0.9714
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

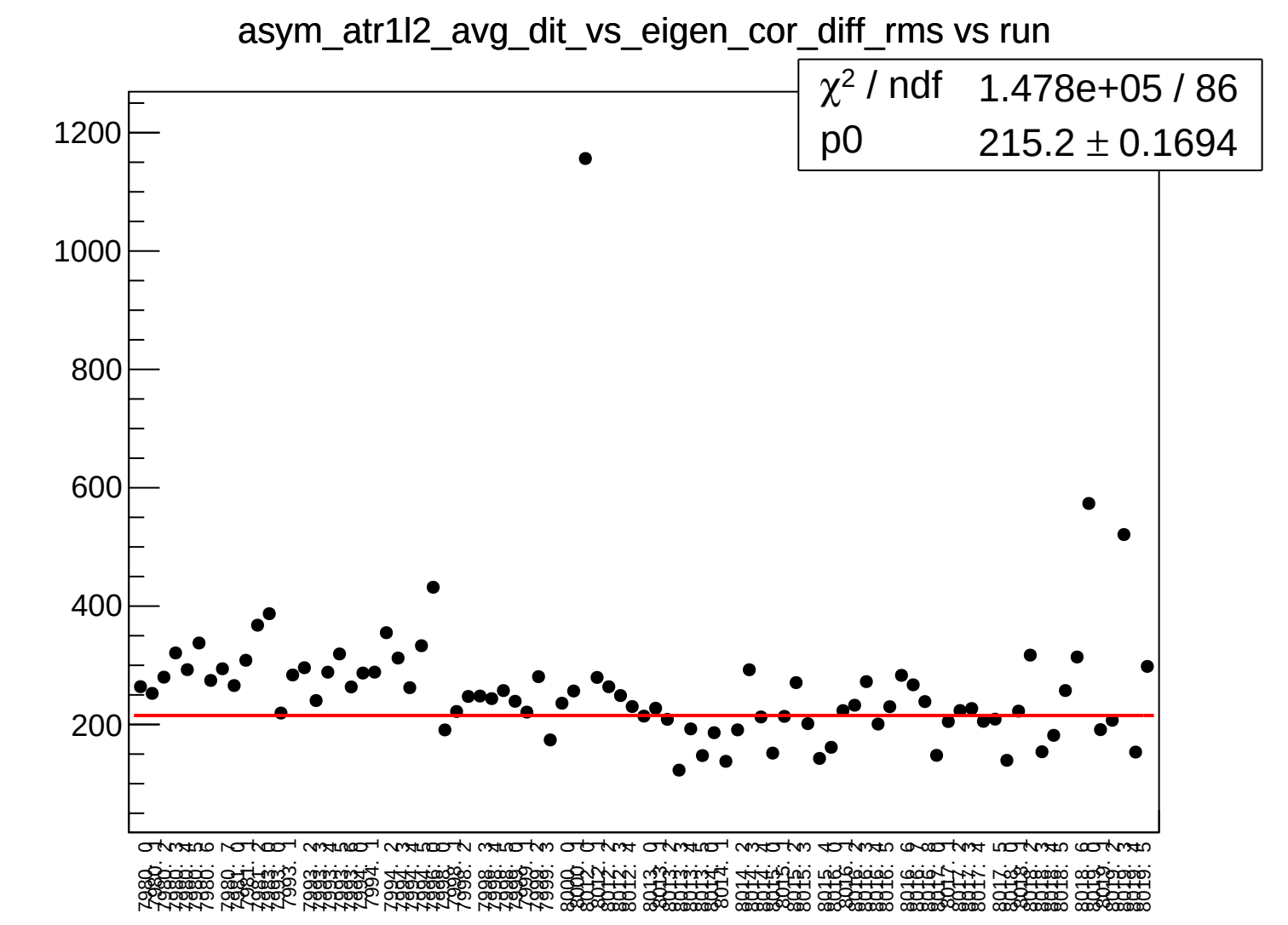

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.376e+06 / 86
p0 2.618e−10 ± 4.222e−13
1
0.8
0.6
0.4
0.2
0

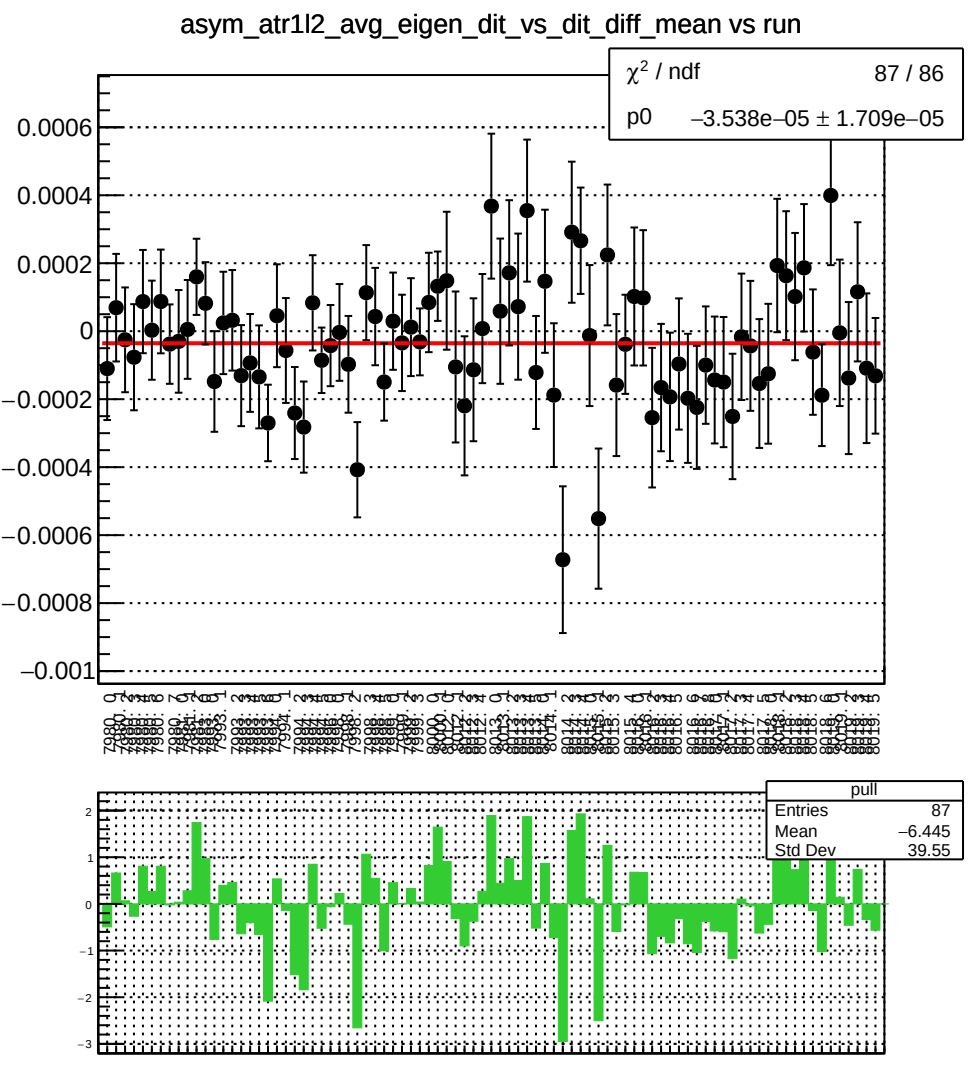

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 86
p0 0.1728 ± 0.2396
pull
Entries 87
Mean −167
Std Dev 0
pull1D
Entries 87
Mean 0.003317
Std Dev 1.074

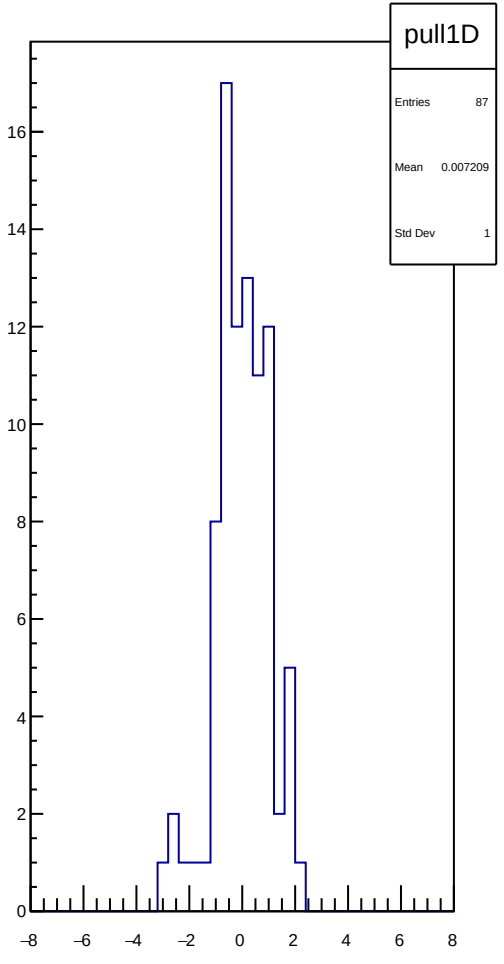

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.478e+05 / 86
p0 215.2 ± 0.1694
1200
1000
800
600
400
200

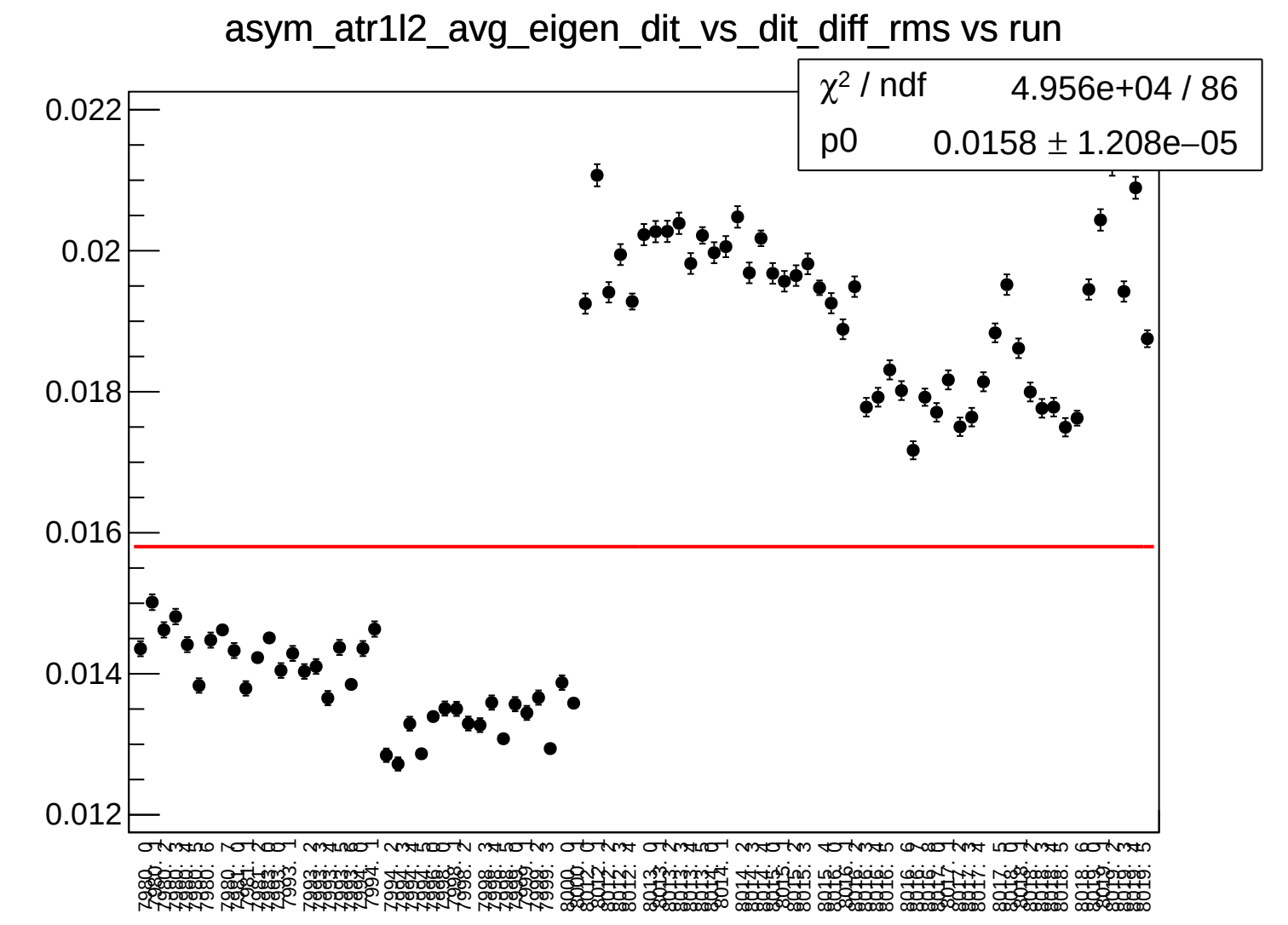

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.3 / 86
p0 0.1728 ± 0.2396
pull
Entries 87
Mean −167
Std Dev 0

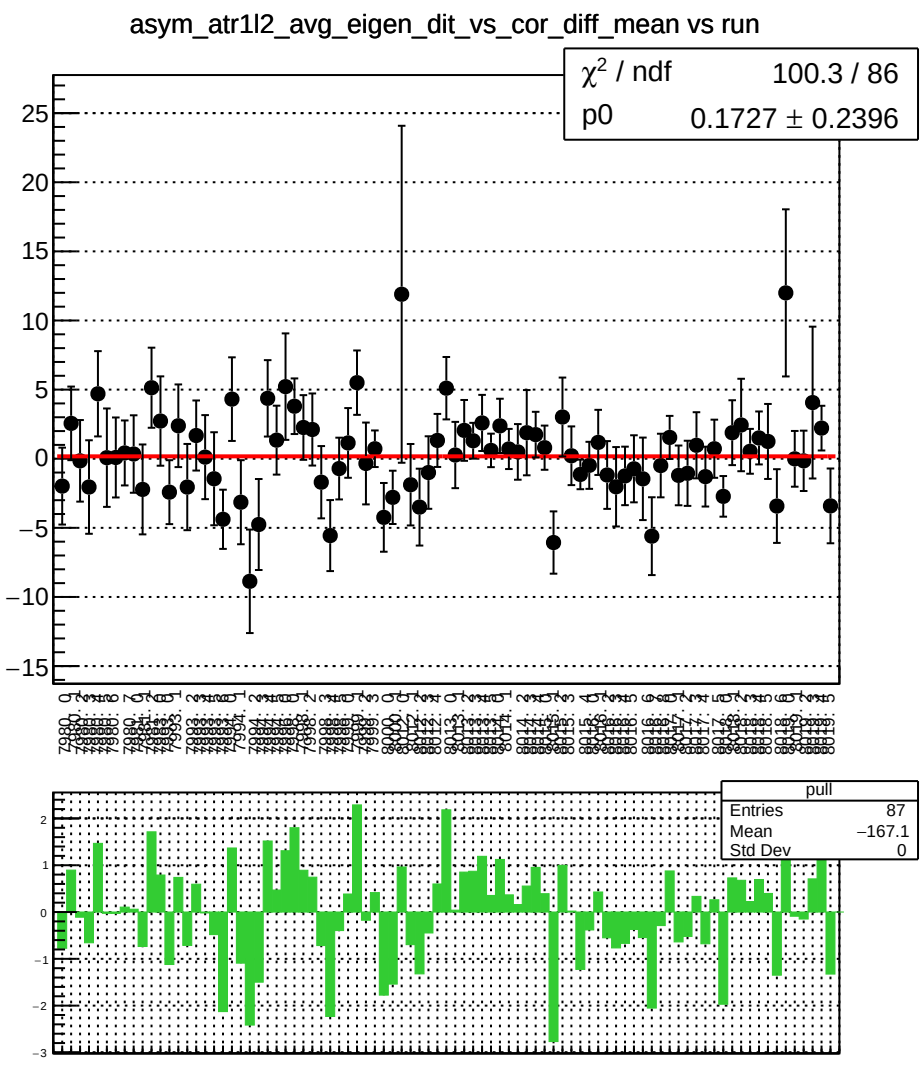

pull1D
Entries 87
Mean 0.003317
Std Dev 1.074

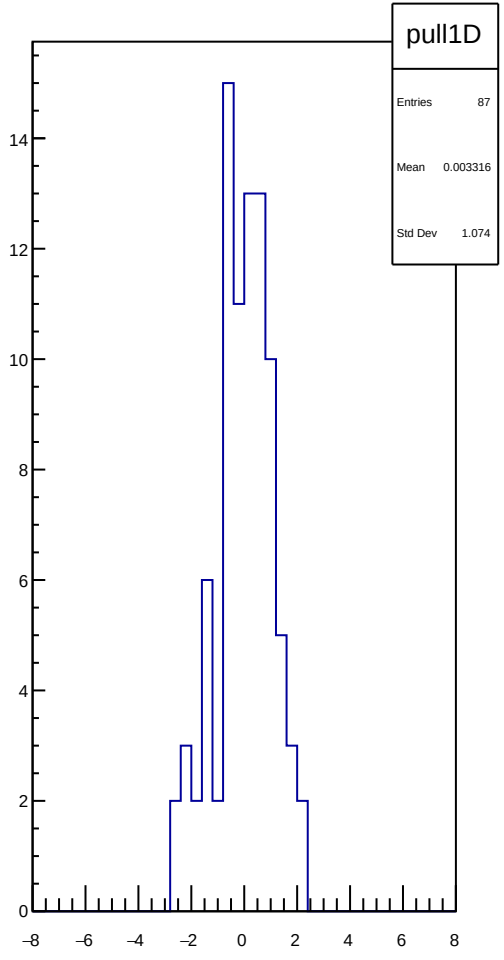

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.478e+05 / 86
p0 215.2 ± 0.1694
1200
1000
800
600
400
200

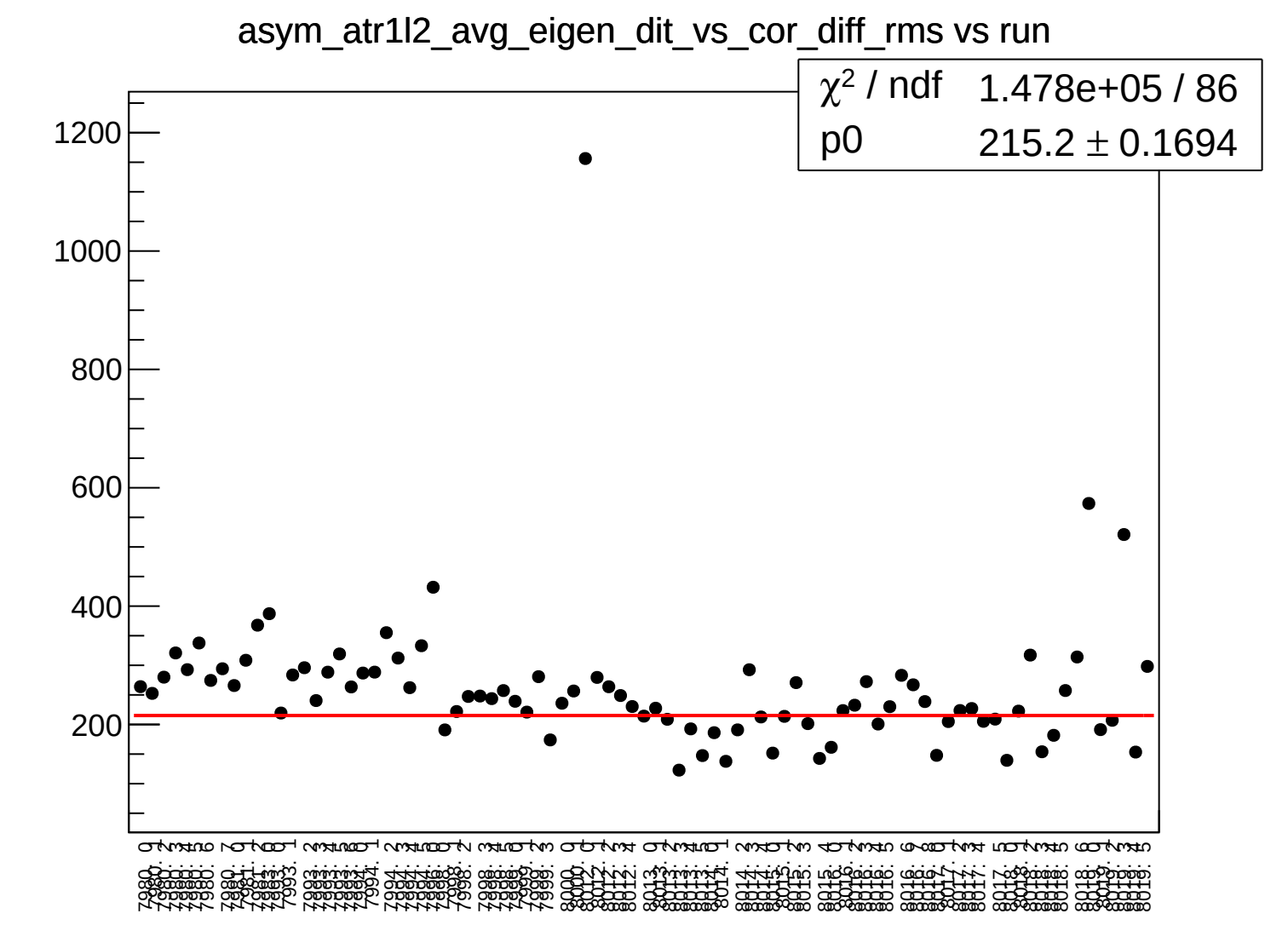

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 87 / 86
p0 −3.538e−05 ± 1.709e−05
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 87
Mean −6.445
Std Dev 39.55
2
1
0
−1
−2
−3

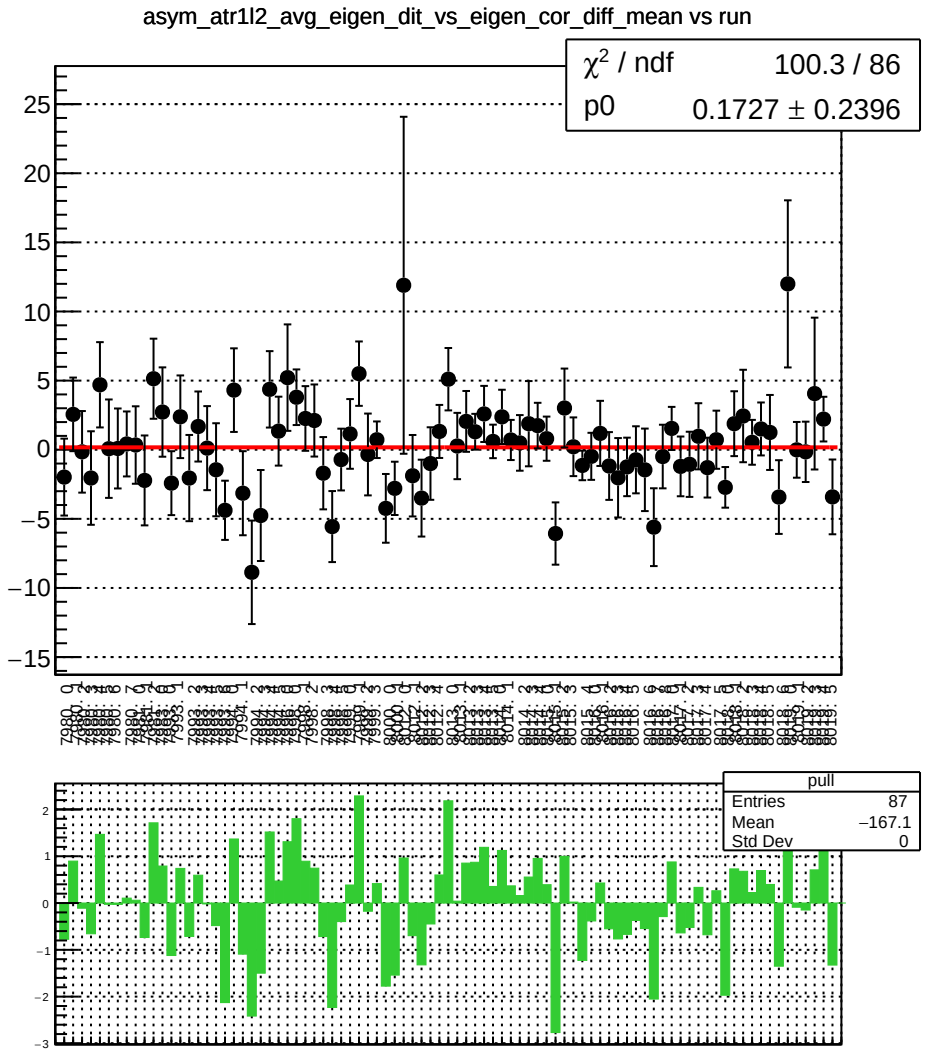

pull1D
Entries 87
Mean 0.007209
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

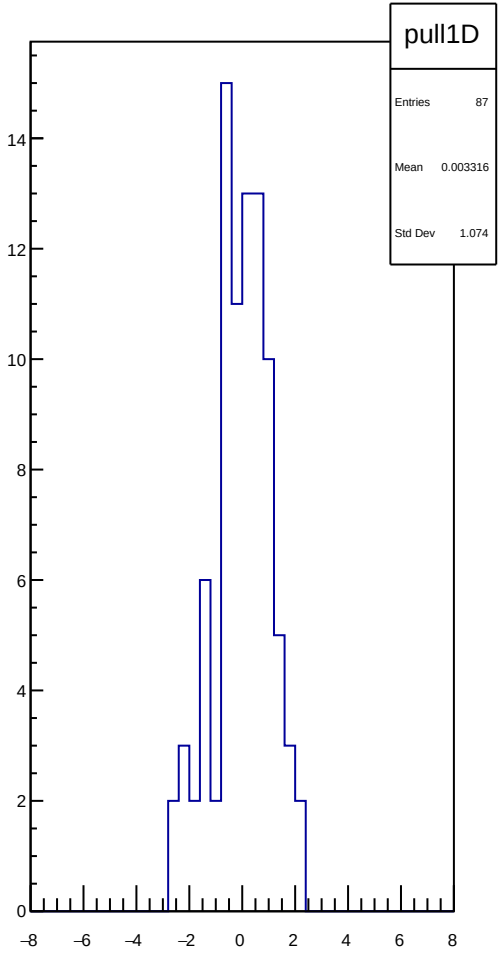

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.956e+04 / 86
p0 0.0158 ± 1.208e−05
0.022
0.02
0.018
0.016
0.014
0.012

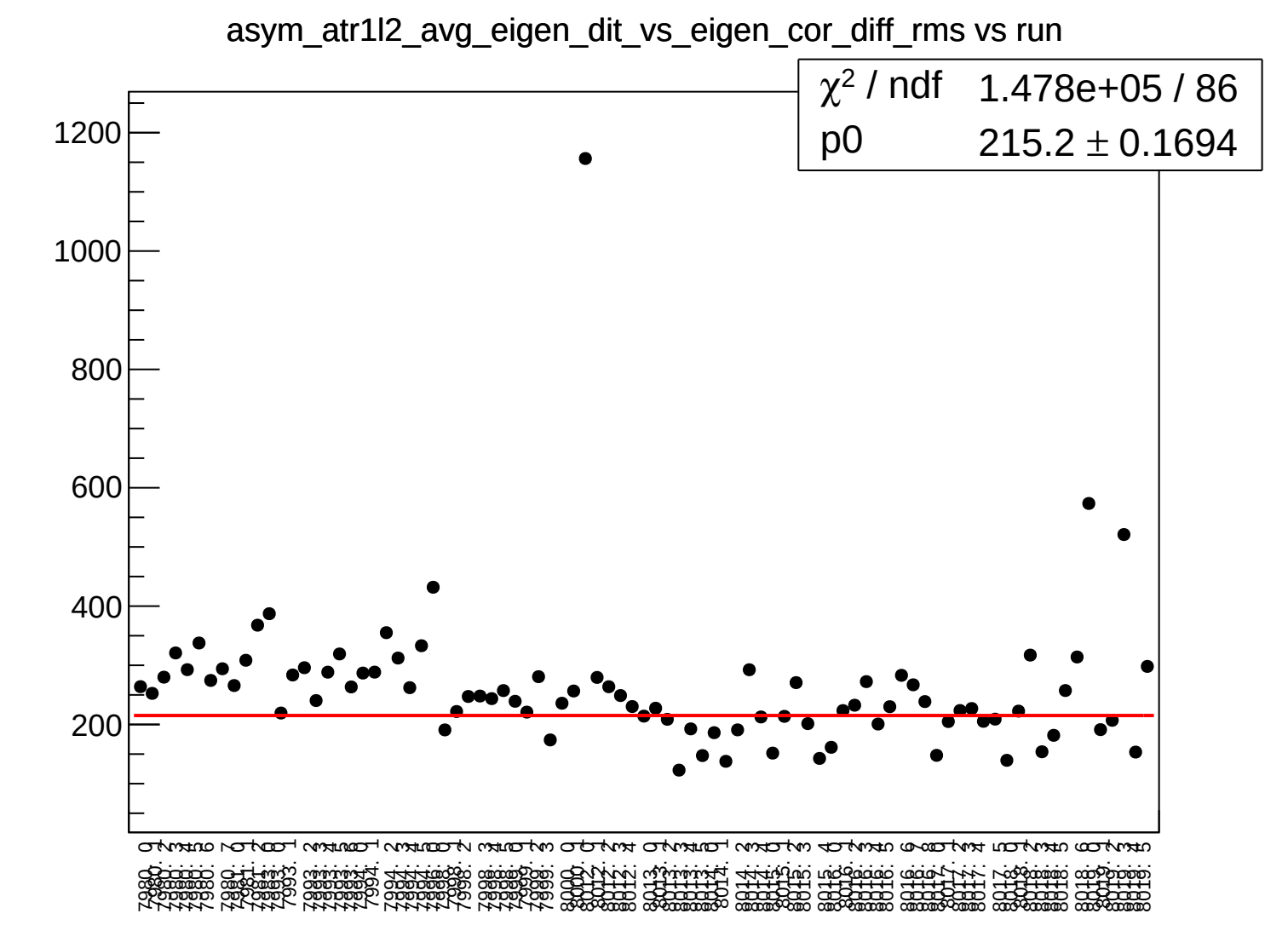

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 86
p0 0.1727 ± 0.2396
pull
Entries 87
Mean −167.1
Std Dev 0

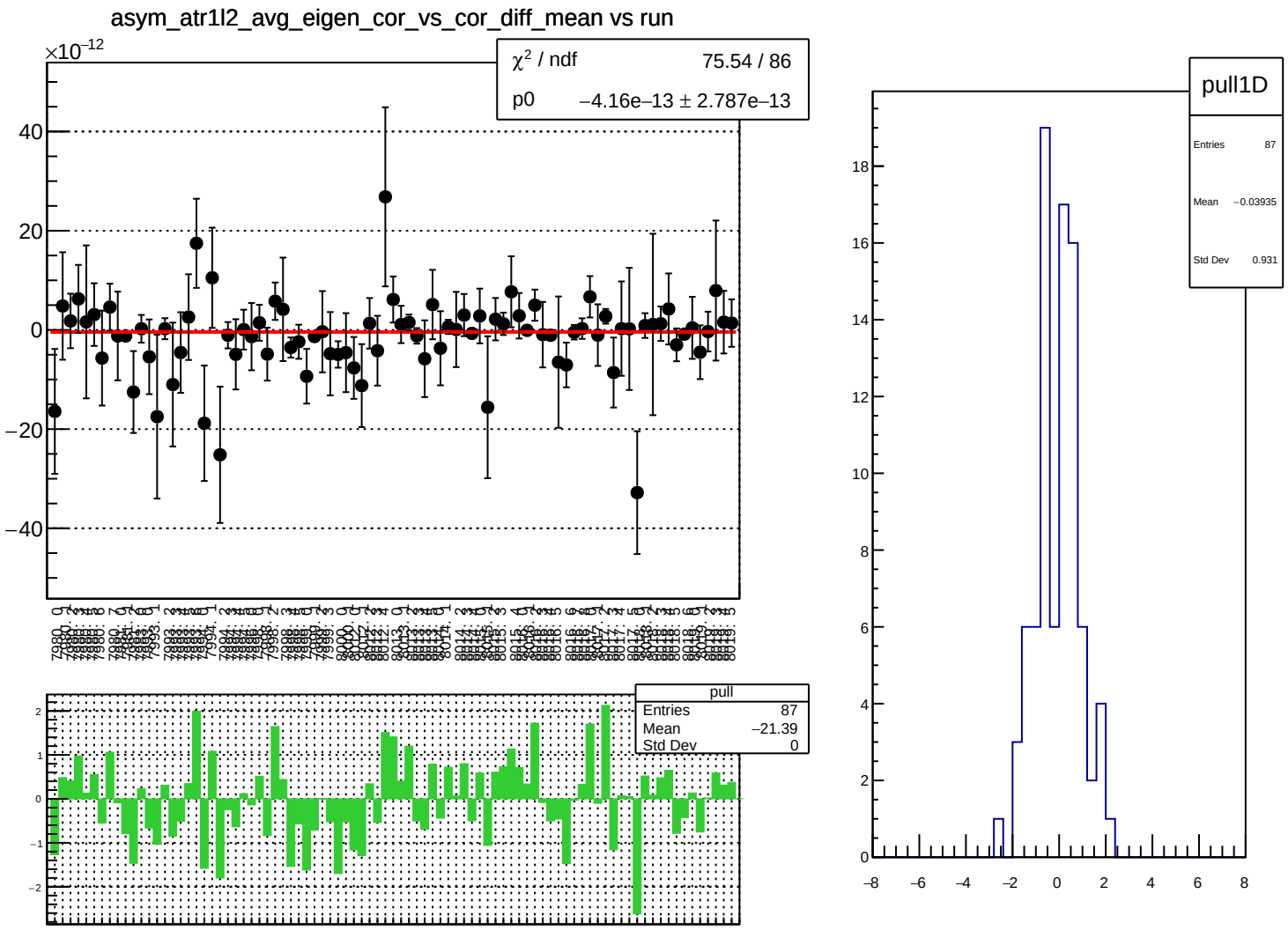

pull1D
Entries 87
Mean 0.003316
Std Dev 1.074

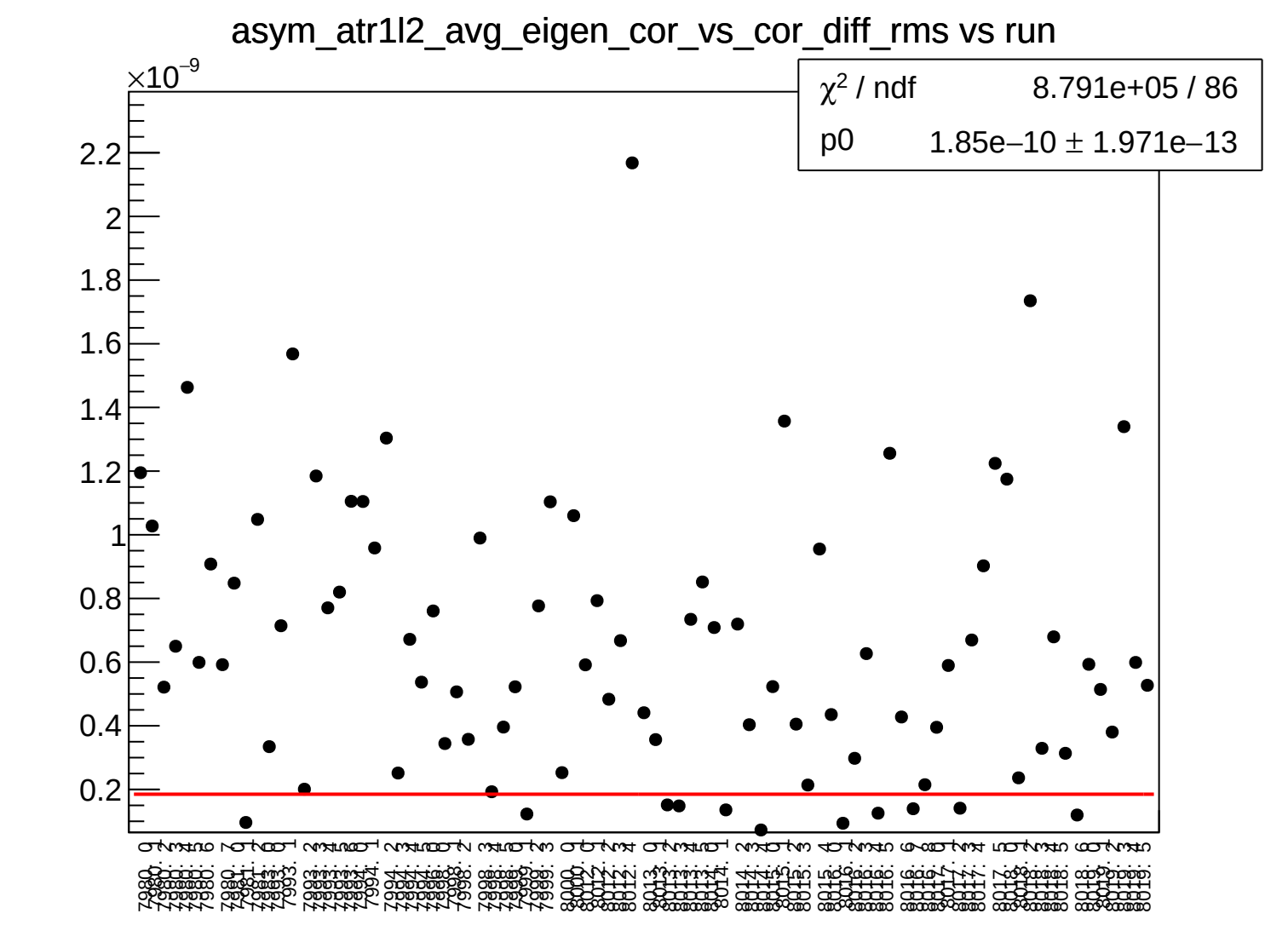

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.478e+05 / 86
p0 215.2 ± 0.1694
1200
1000
800
600
400
200

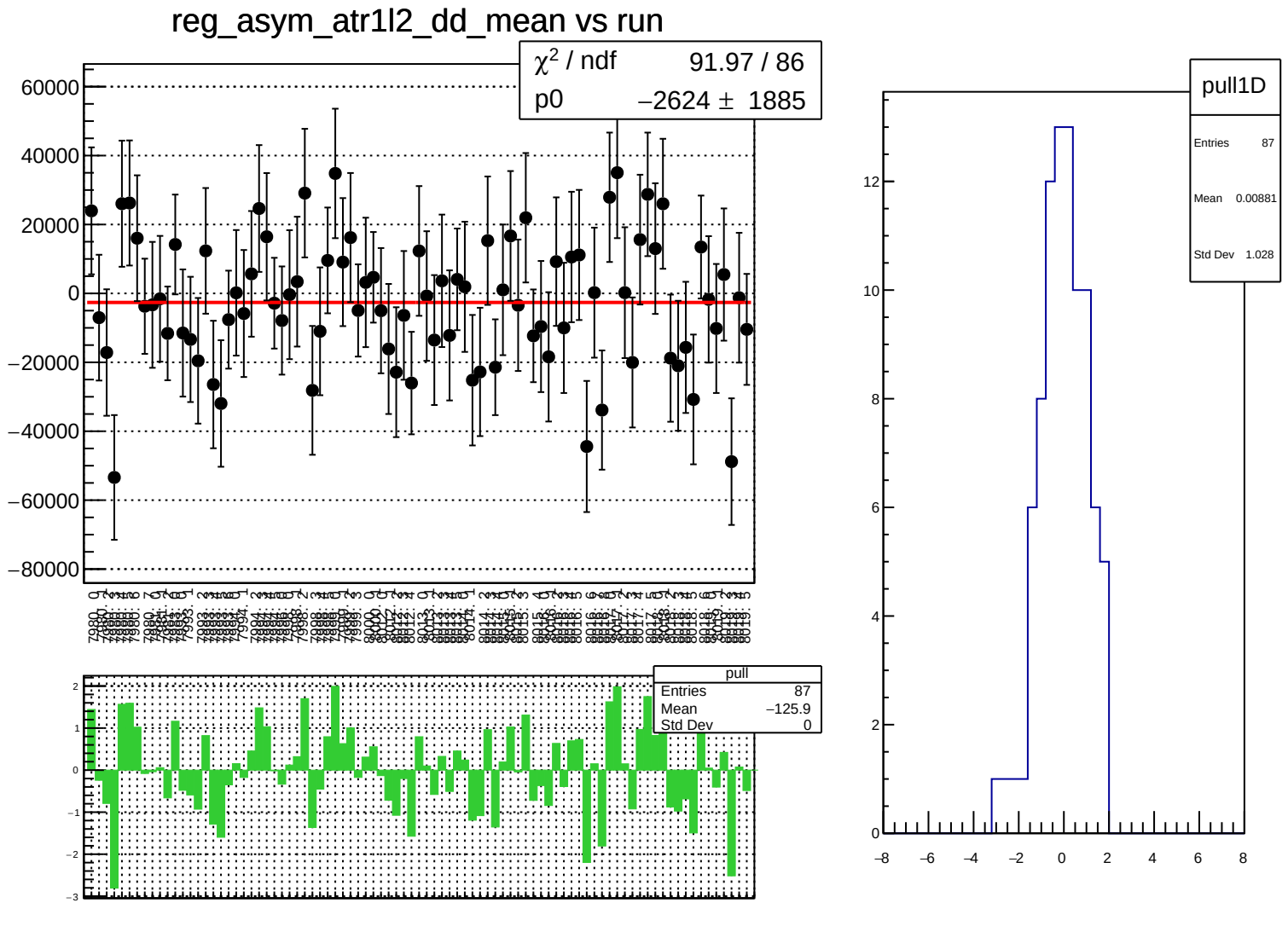

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.3 / 86
p0 0.1727 ± 0.2396
pull
Entries 87
Mean −167.1
Std Dev 0

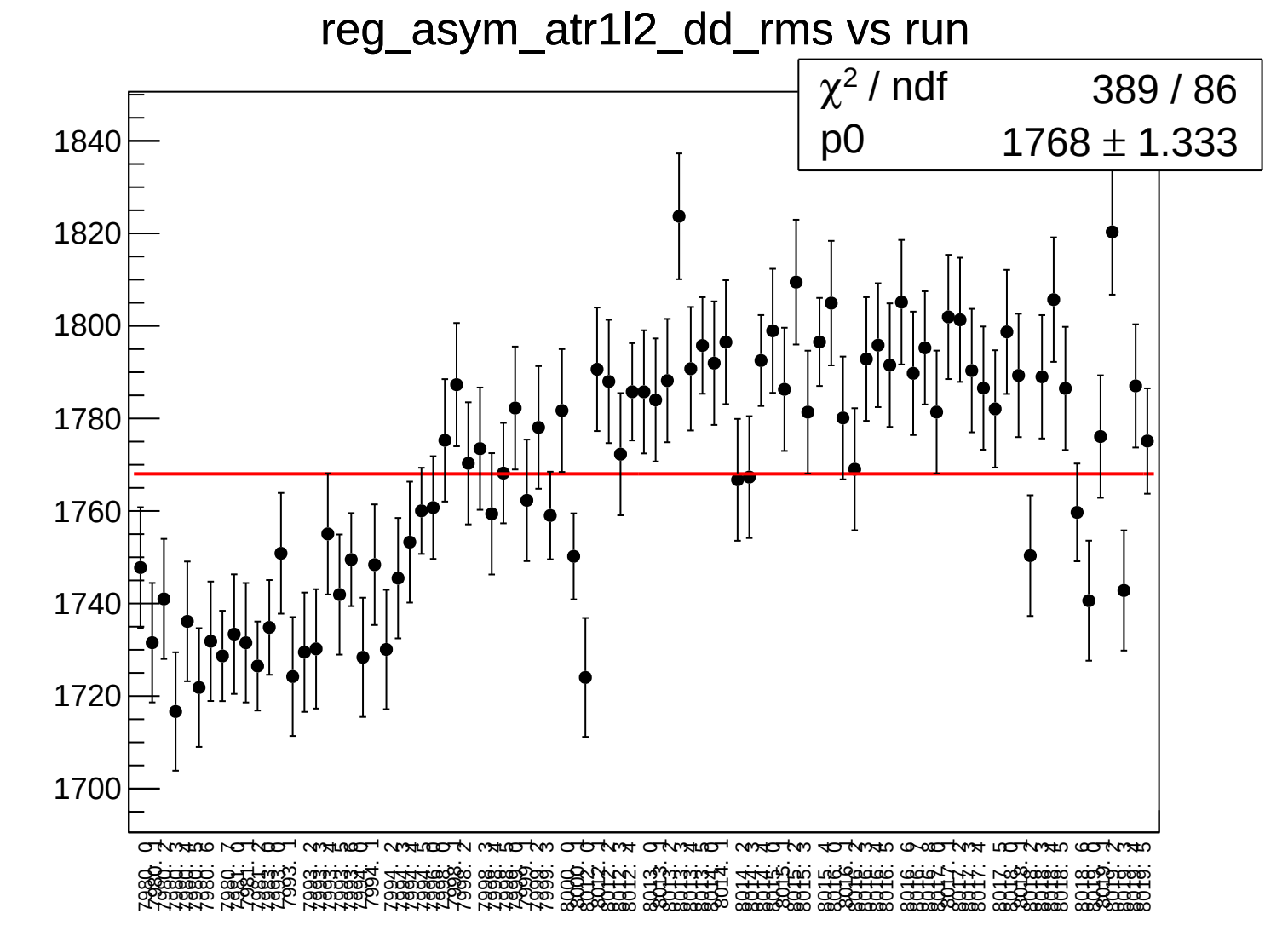

pull1D
Entries 87
Mean 0.003316
Std Dev 1.074

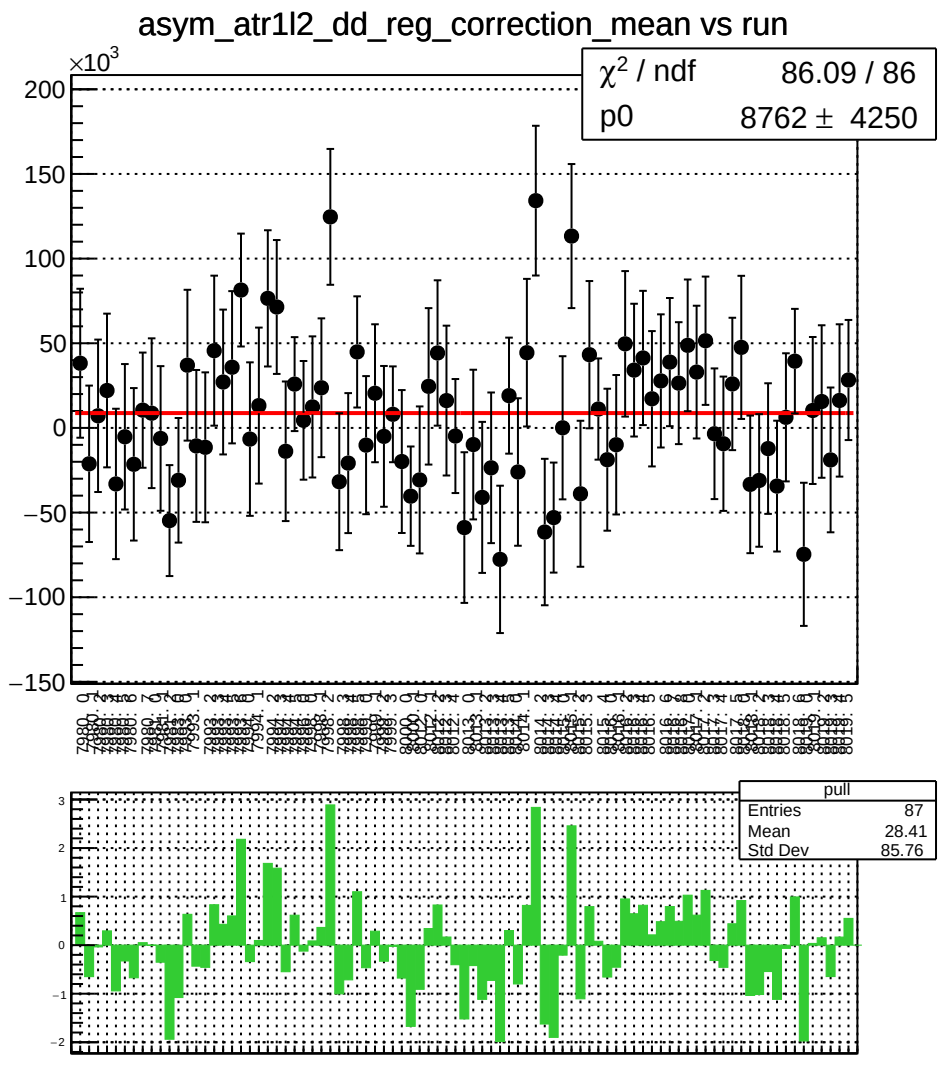

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.478e+05 / 86
p0 215.2 ± 0.1694
1200
1000
800
600
400
200

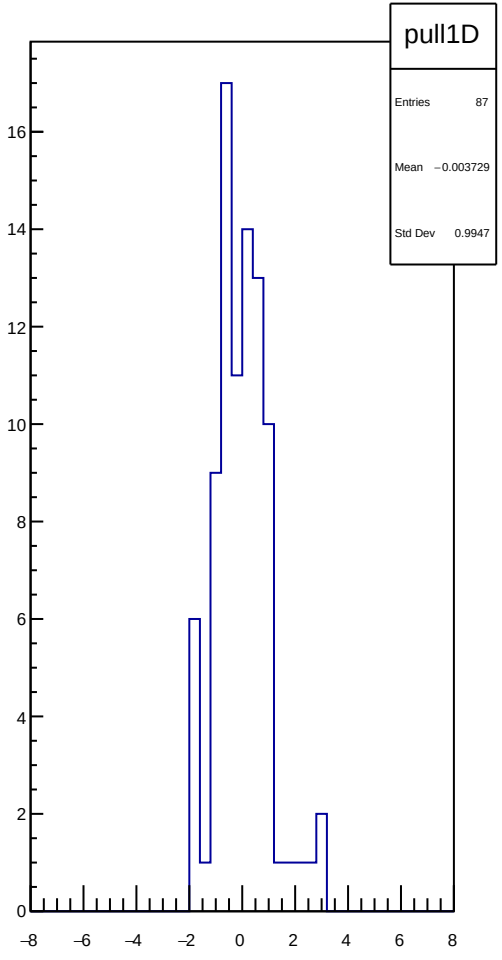

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.54 / 86
p0 −4.16e−13 ± 2.787e−13
40
20
0
−20
−40
pull
Entries 87
Mean −21.39
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.03935
Std Dev 0.931
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

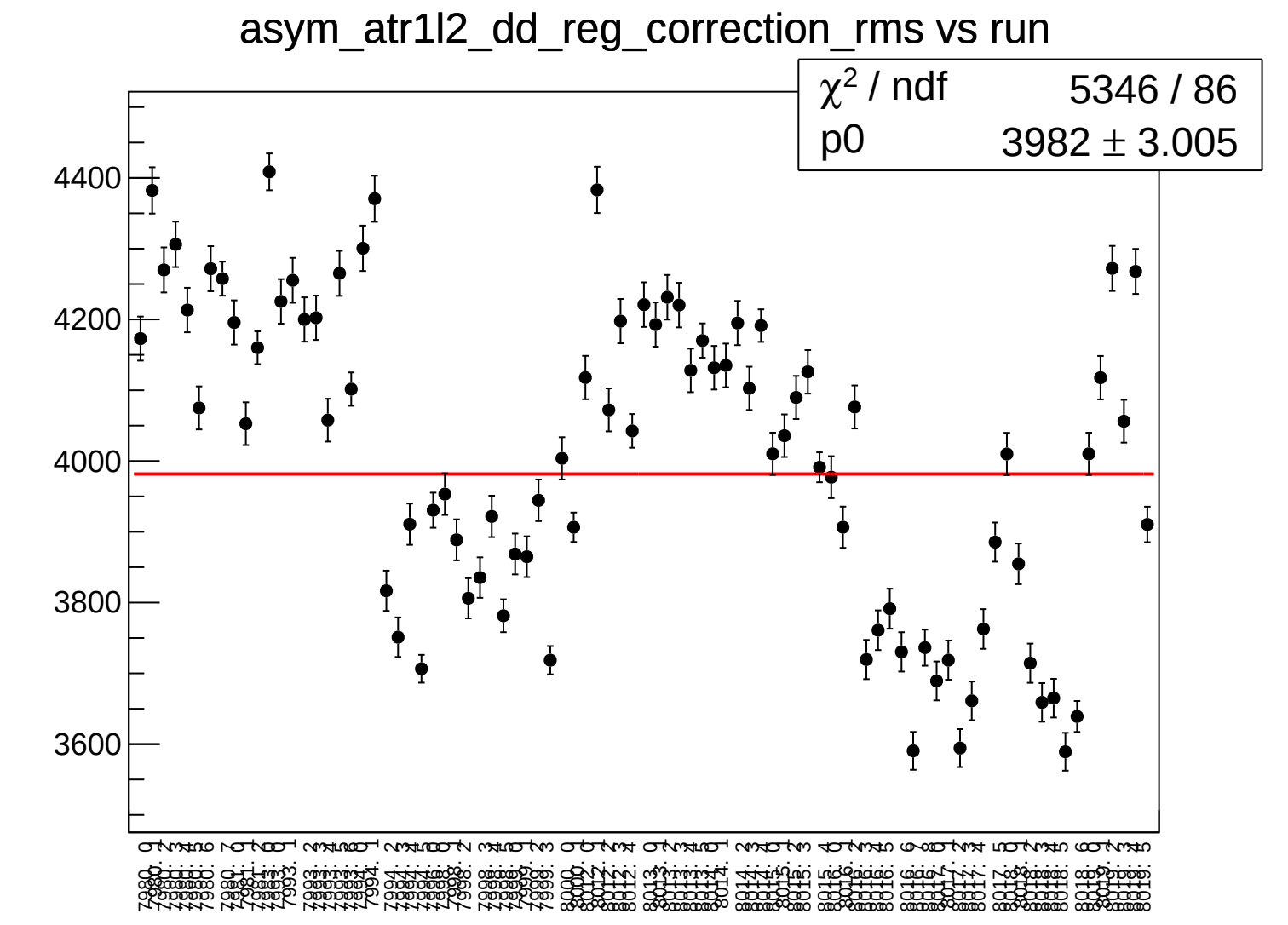

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.791e+05 / 86
p0 1.85e−10 ± 1.971e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

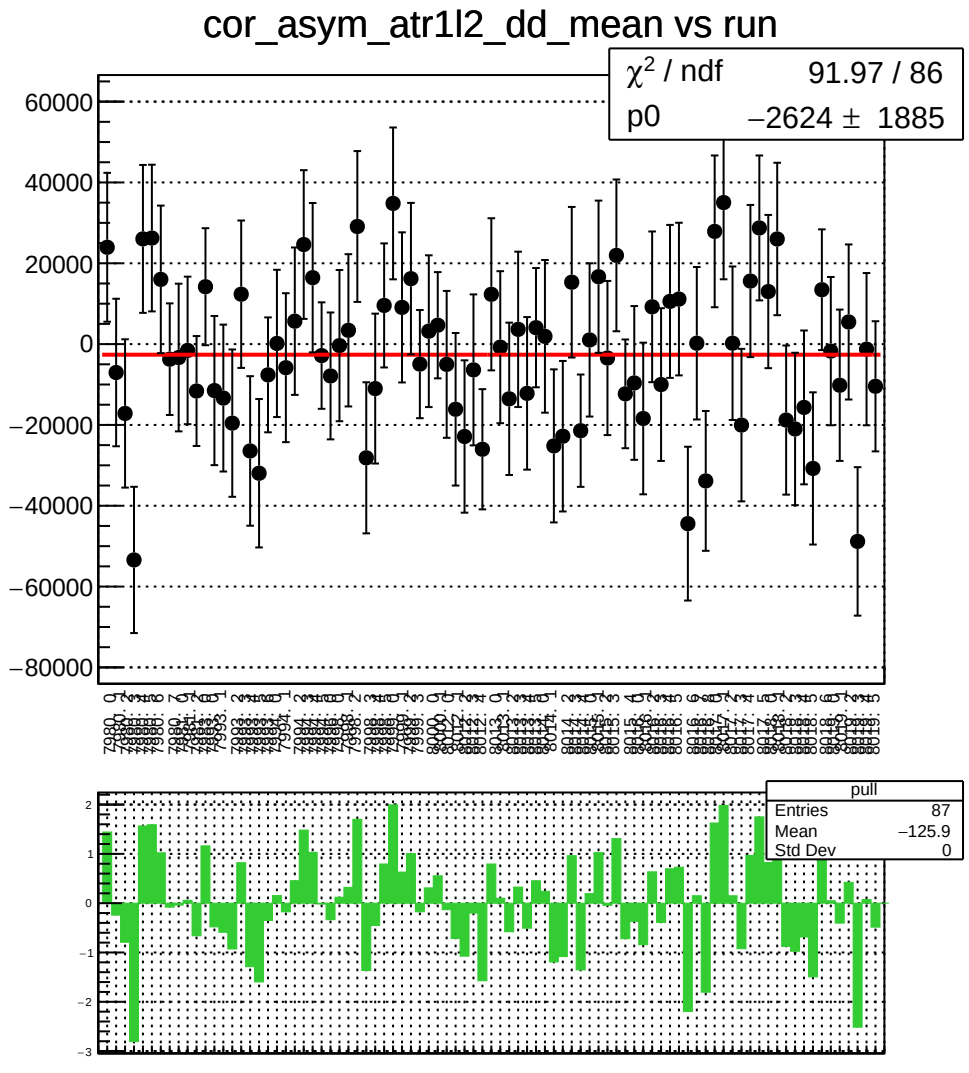

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 91.97 / 86
p0 −2624 ± 1885
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −125.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.00881
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

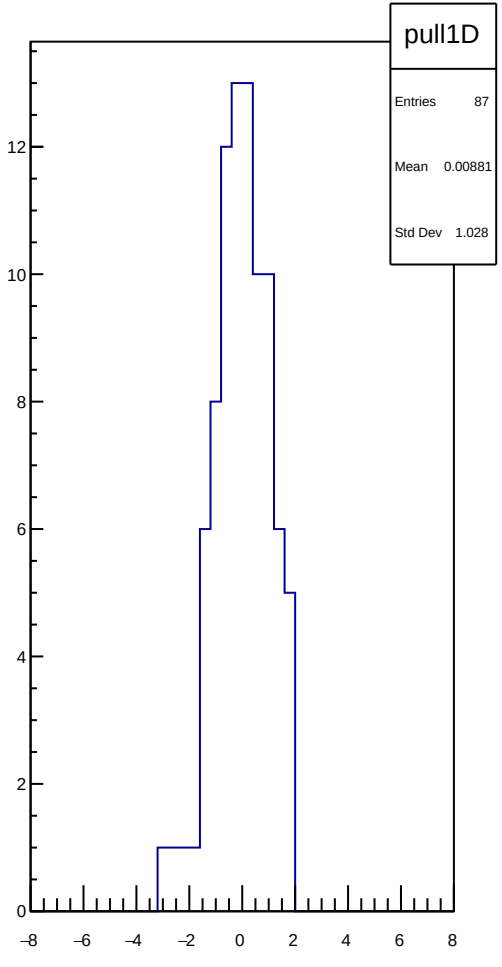

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 389 / 86
p0 1768 ± 1.333
1840
1820
1800
1780
1760
1740
1720
1700

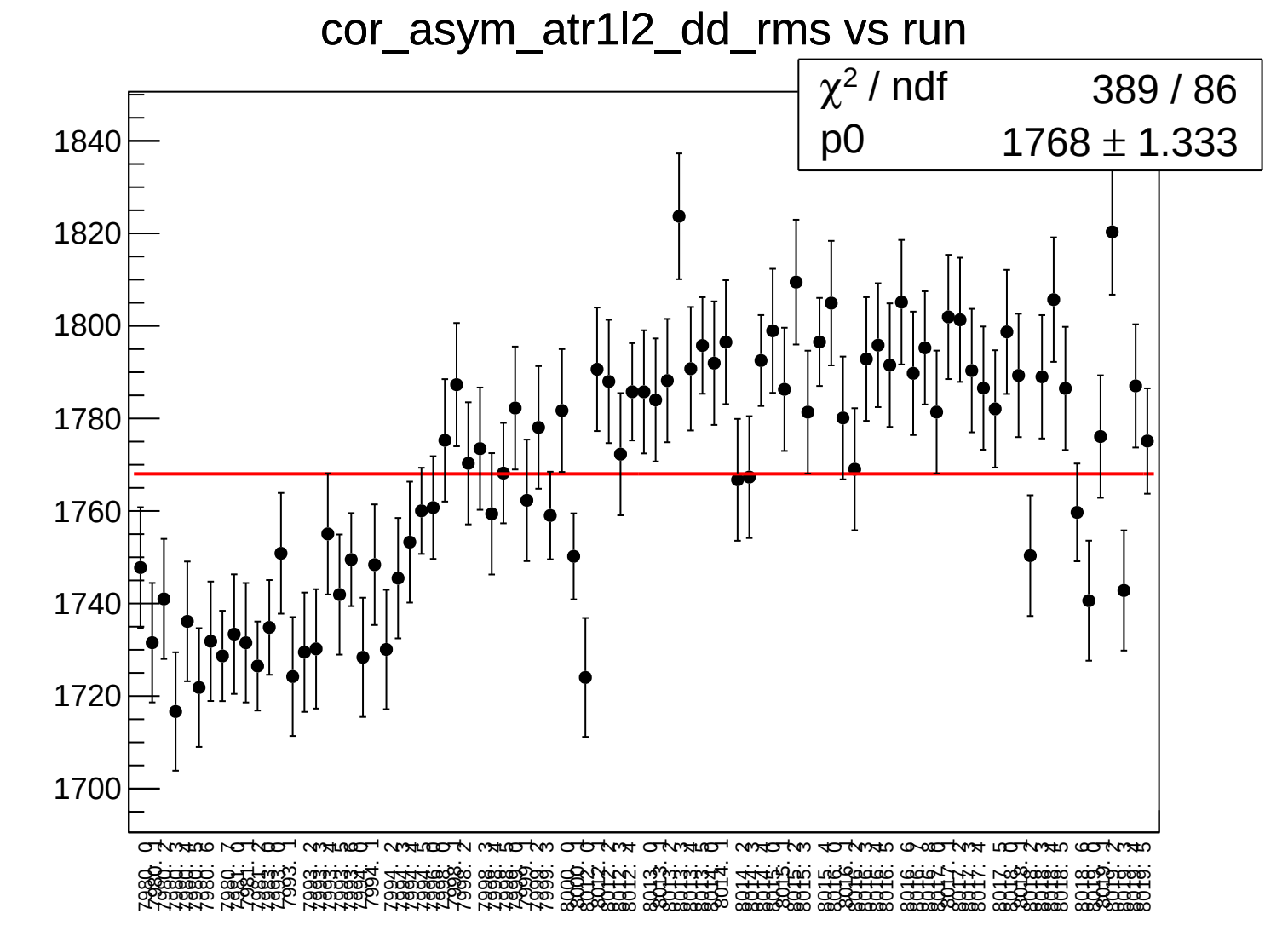

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.09 / 86
p0 8762 ± 4250
pull
Entries 87
Mean 28.41
Std Dev 85.76

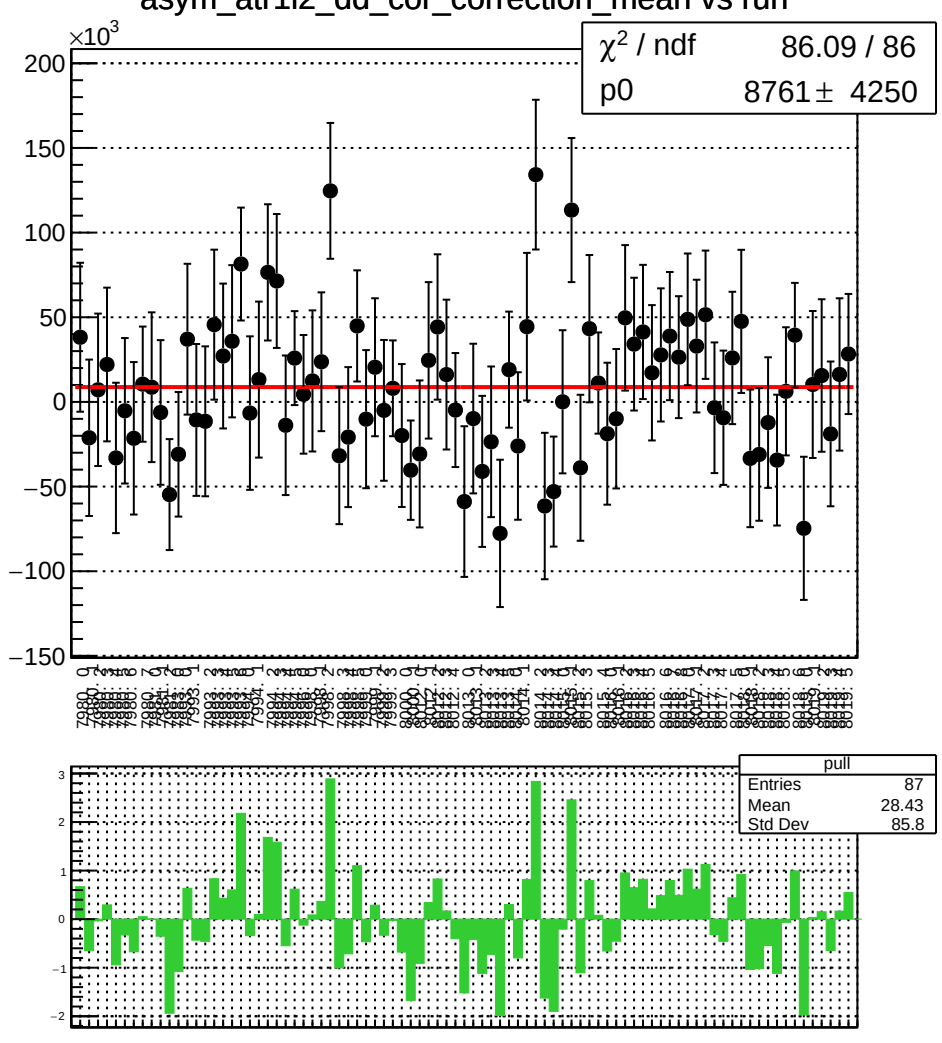

pull1D
Entries 87
Mean −0.003729
Std Dev 0.9947

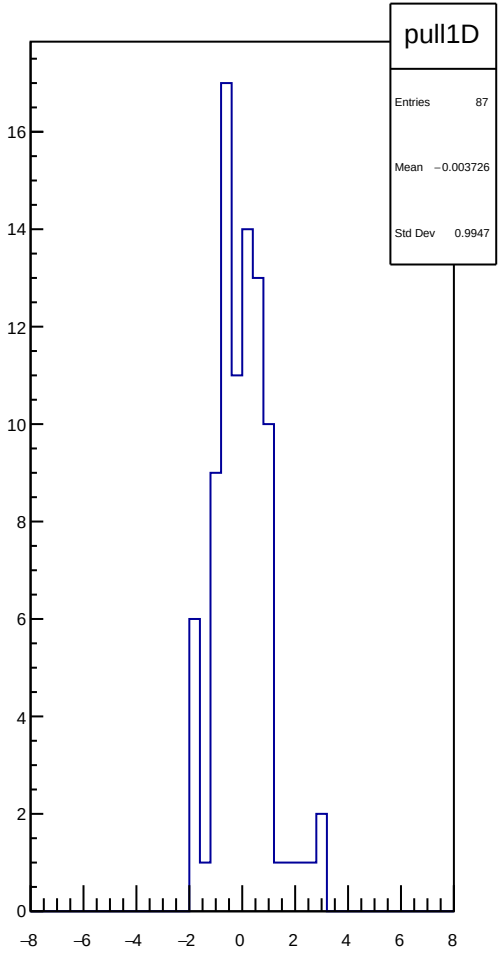

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 5346 / 86
p0 3982 ± 3.005
4400
4200
4000
3800
3600

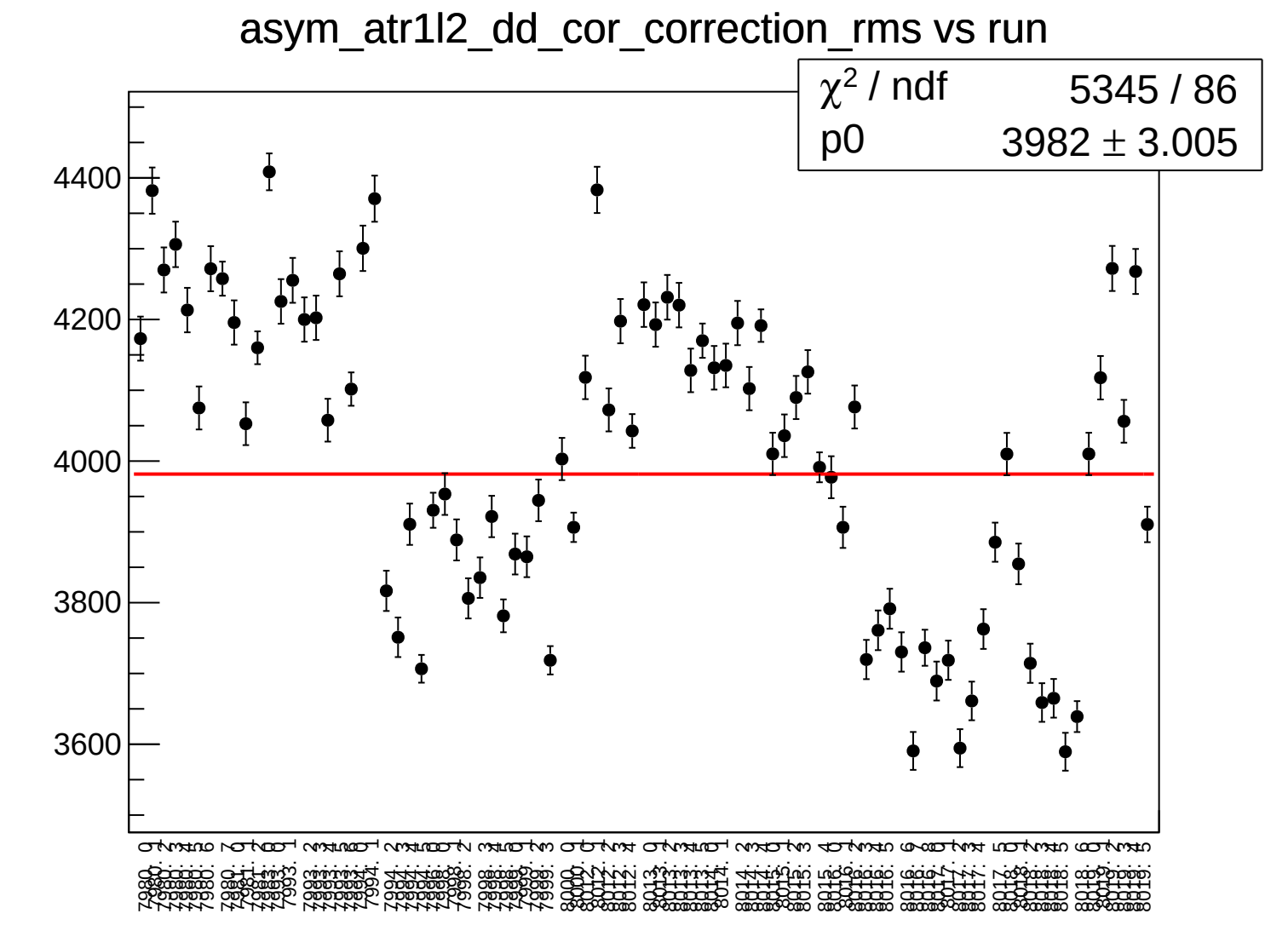

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 91.97 / 86
p0 −2624 ± 1885
pull
Entries 87
Mean −125.9
Std Dev 0

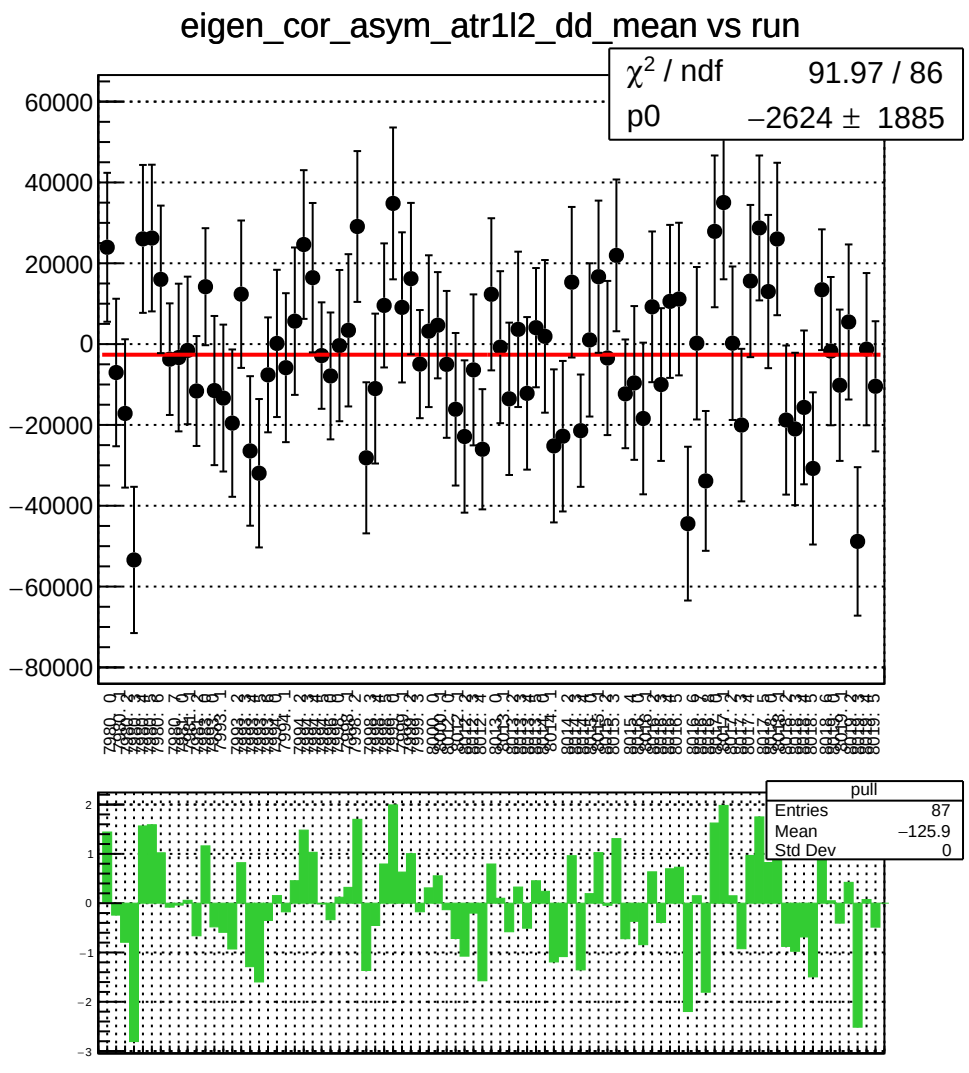

pull1D
Entries 87
Mean 0.00881
Std Dev 1.028

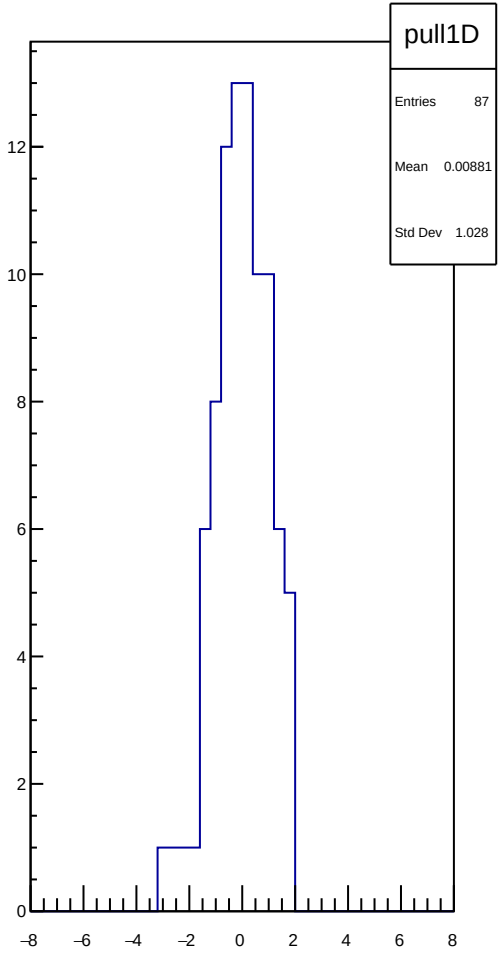

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 389 / 86
p0 1768 ± 1.333
1840
1820
1800
1780
1760
1740
1720
1700

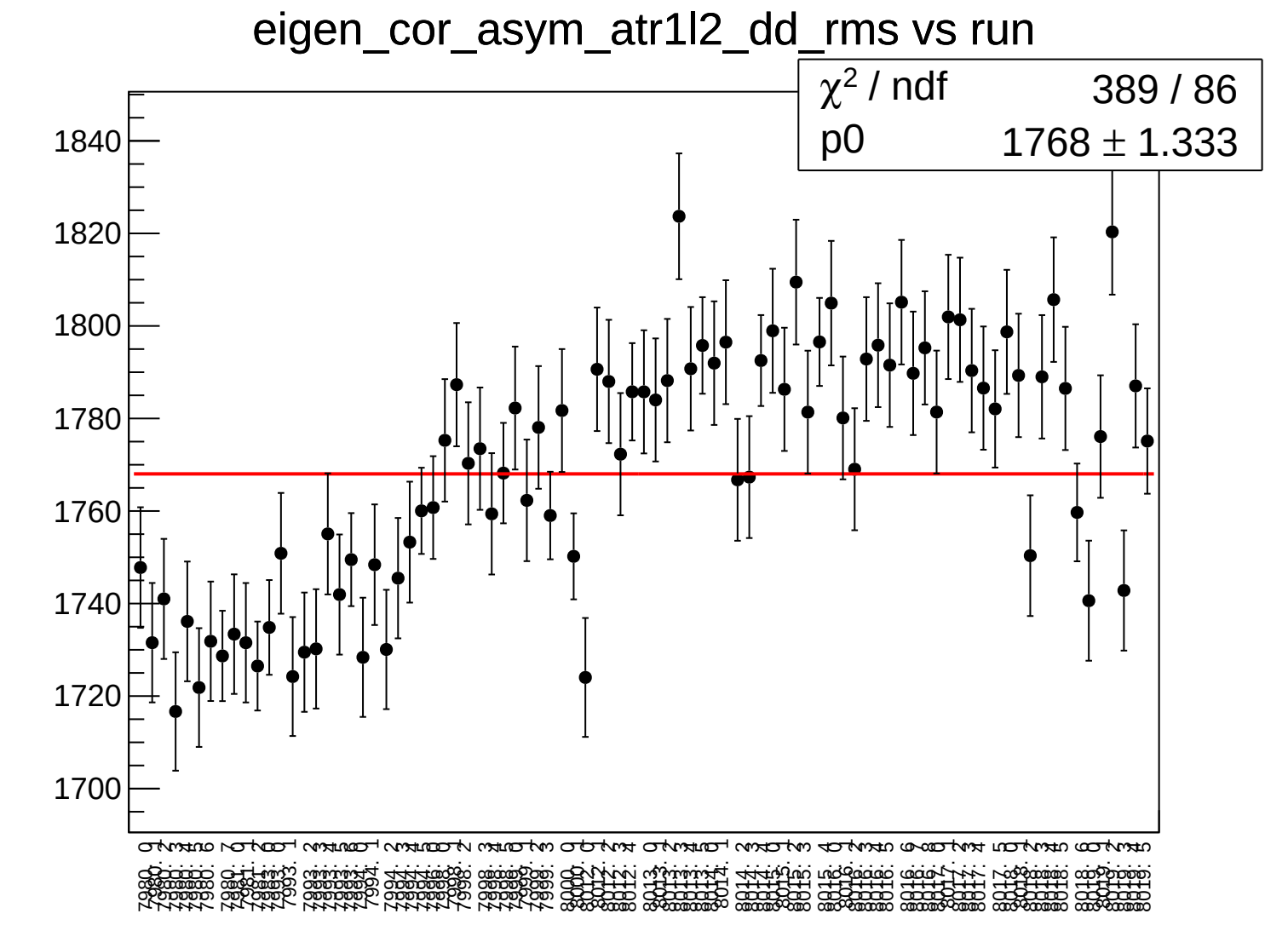

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.09 / 86
p0 8761 ± 4250
pull
Entries 87
Mean 28.43
Std Dev 85.8

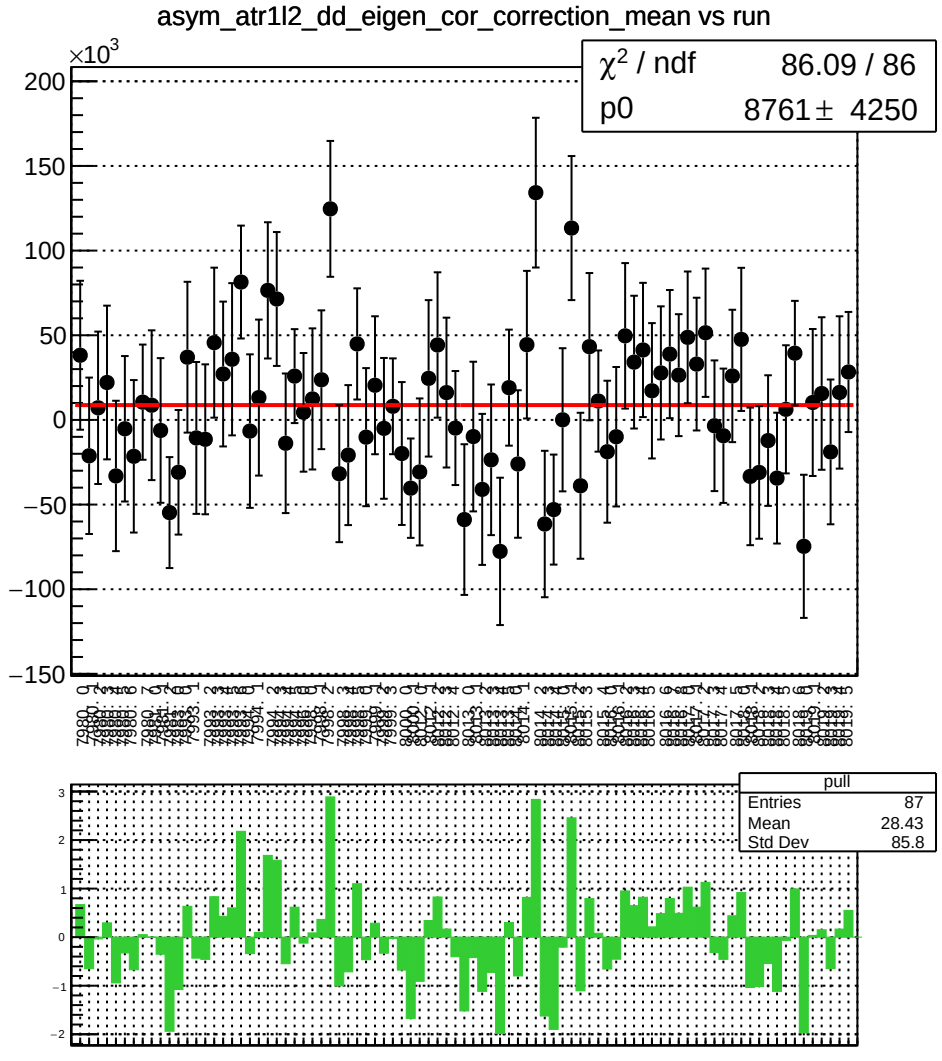

pull1D
Entries 87
Mean −0.003726
Std Dev 0.9947

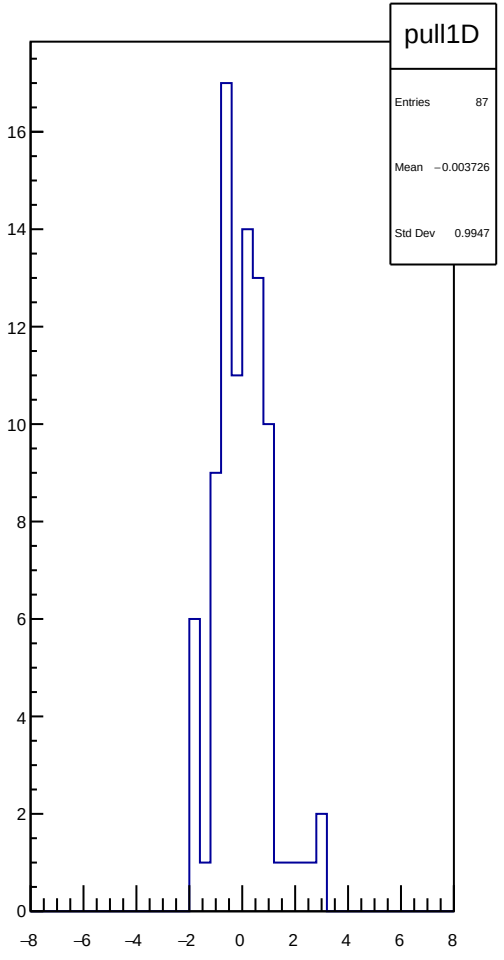

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 5345 / 86
p0 3982 ± 3.005
4400
4200
4000
3800
3600

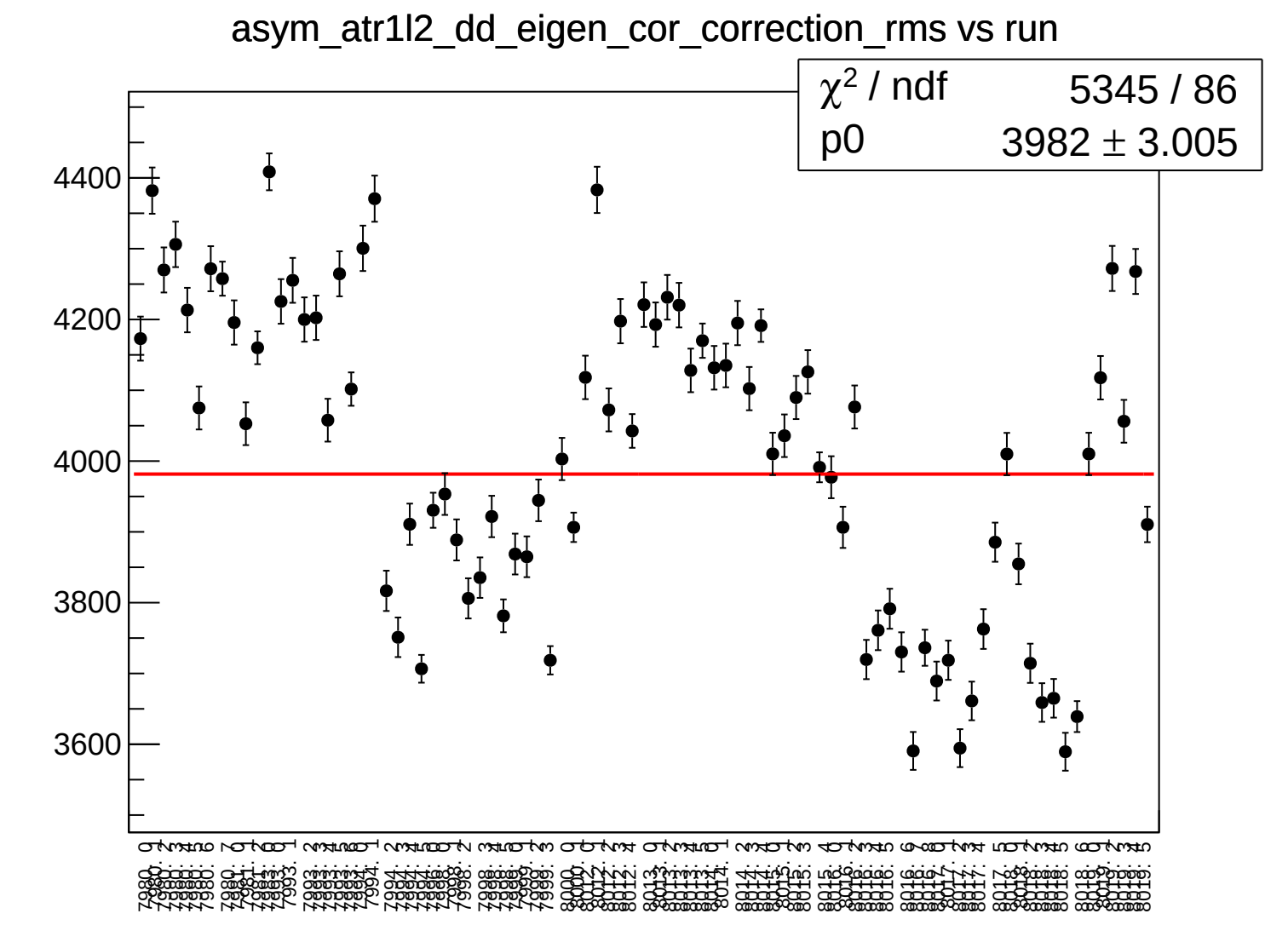

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 91.97 / 86
p0 −2624 ± 1885
pull
Entries 87
Mean −125.9
Std Dev 0

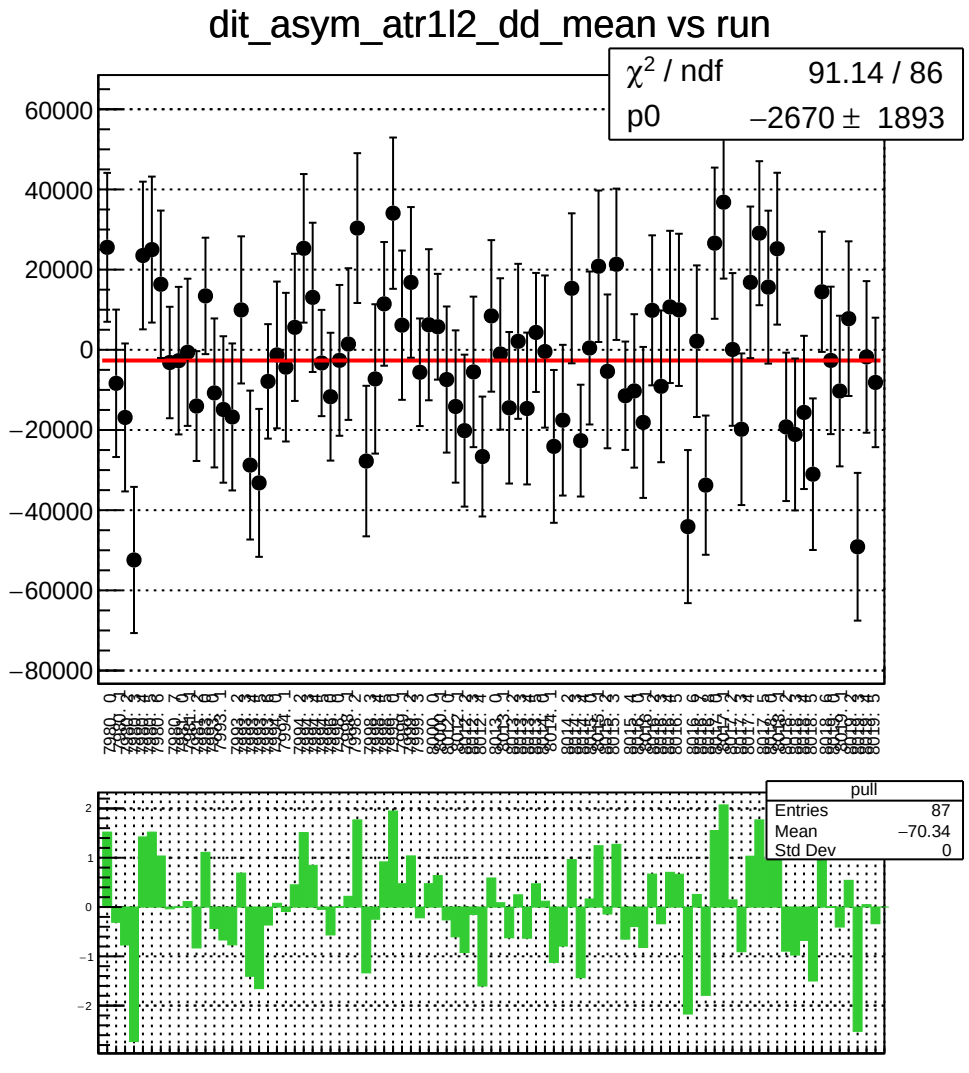

pull1D
Entries 87
Mean 0.00881
Std Dev 1.028

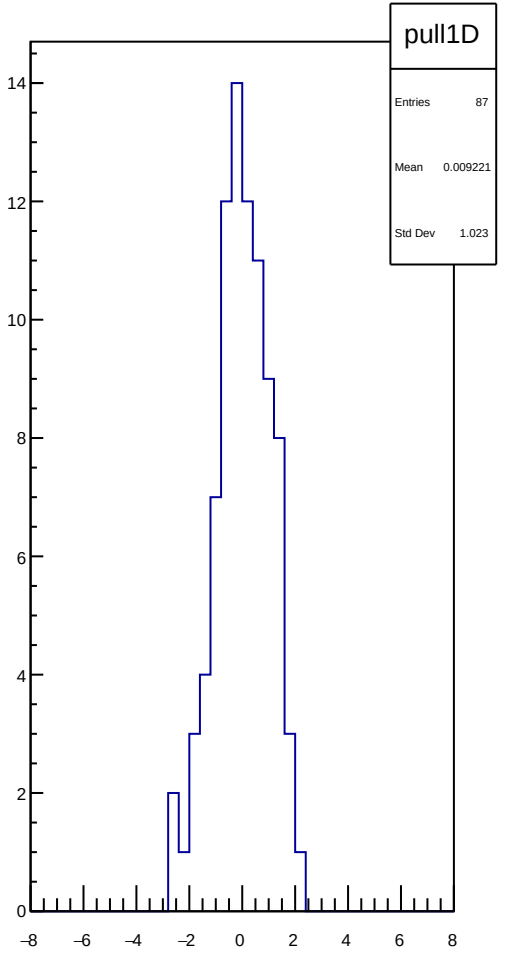

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 389 / 86
p0 1768 ± 1.333
1840
1820
1800
1780
1760
1740
1720
1700

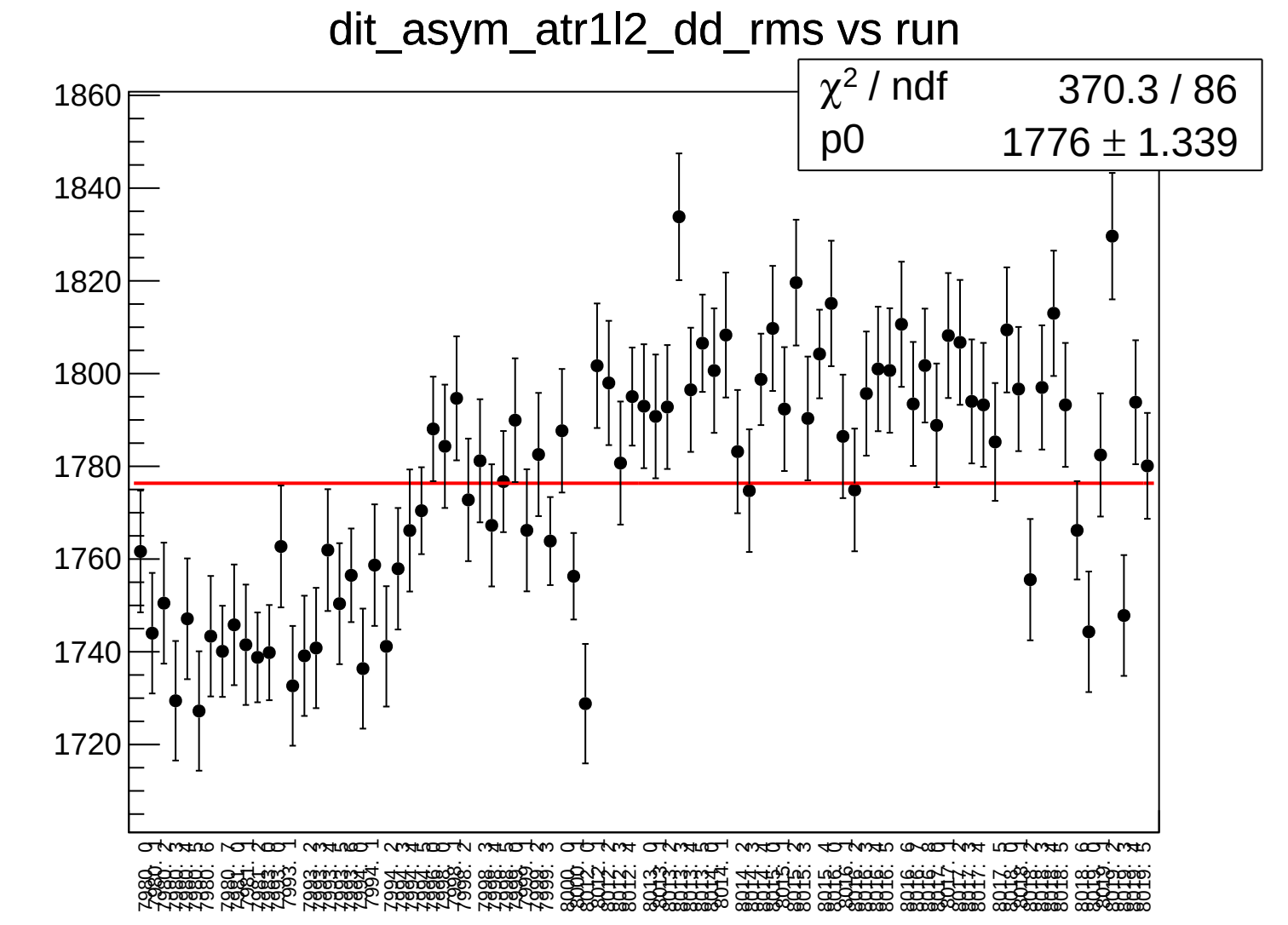

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.09 / 86
p0 8761 ± 4250
pull
Entries 87
Mean 28.43
Std Dev 85.8

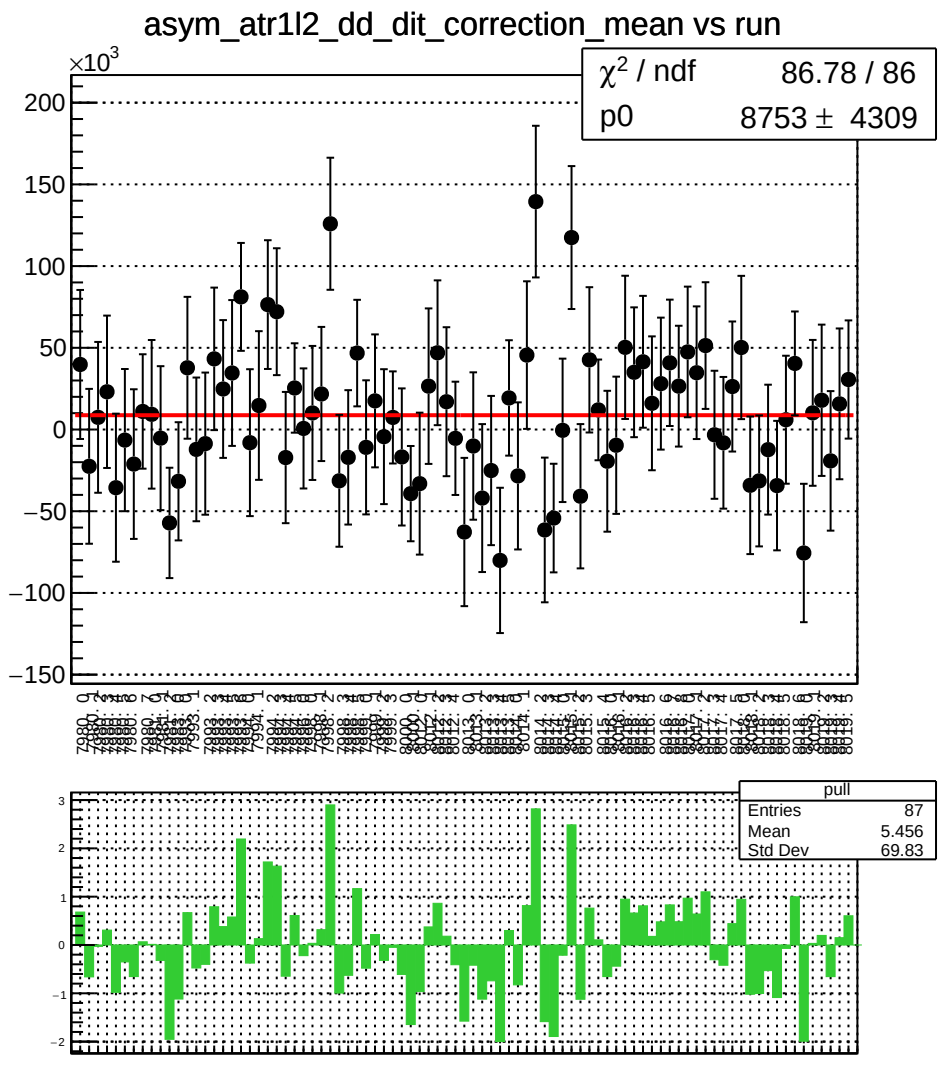

pull1D
Entries 87
Mean −0.003726
Std Dev 0.9947

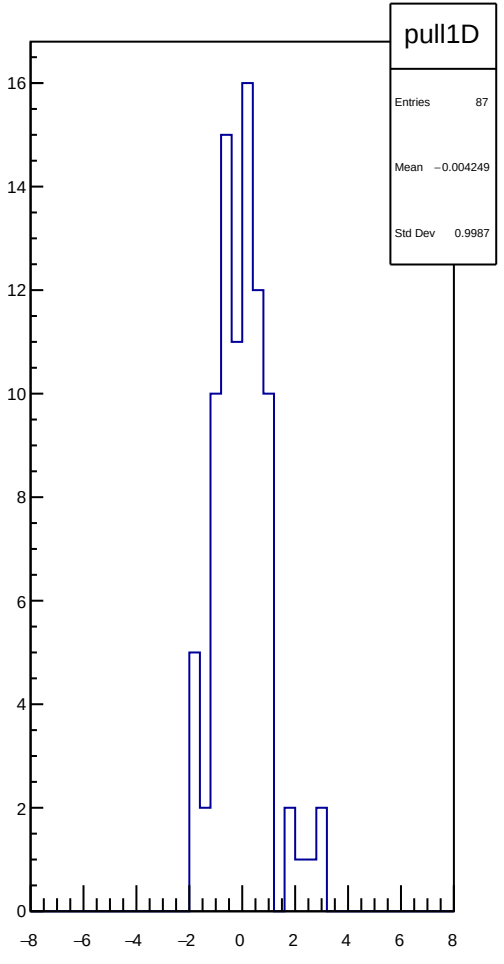

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5345 / 86
p0 3982 ± 3.005
4400
4200
4000
3800
3600

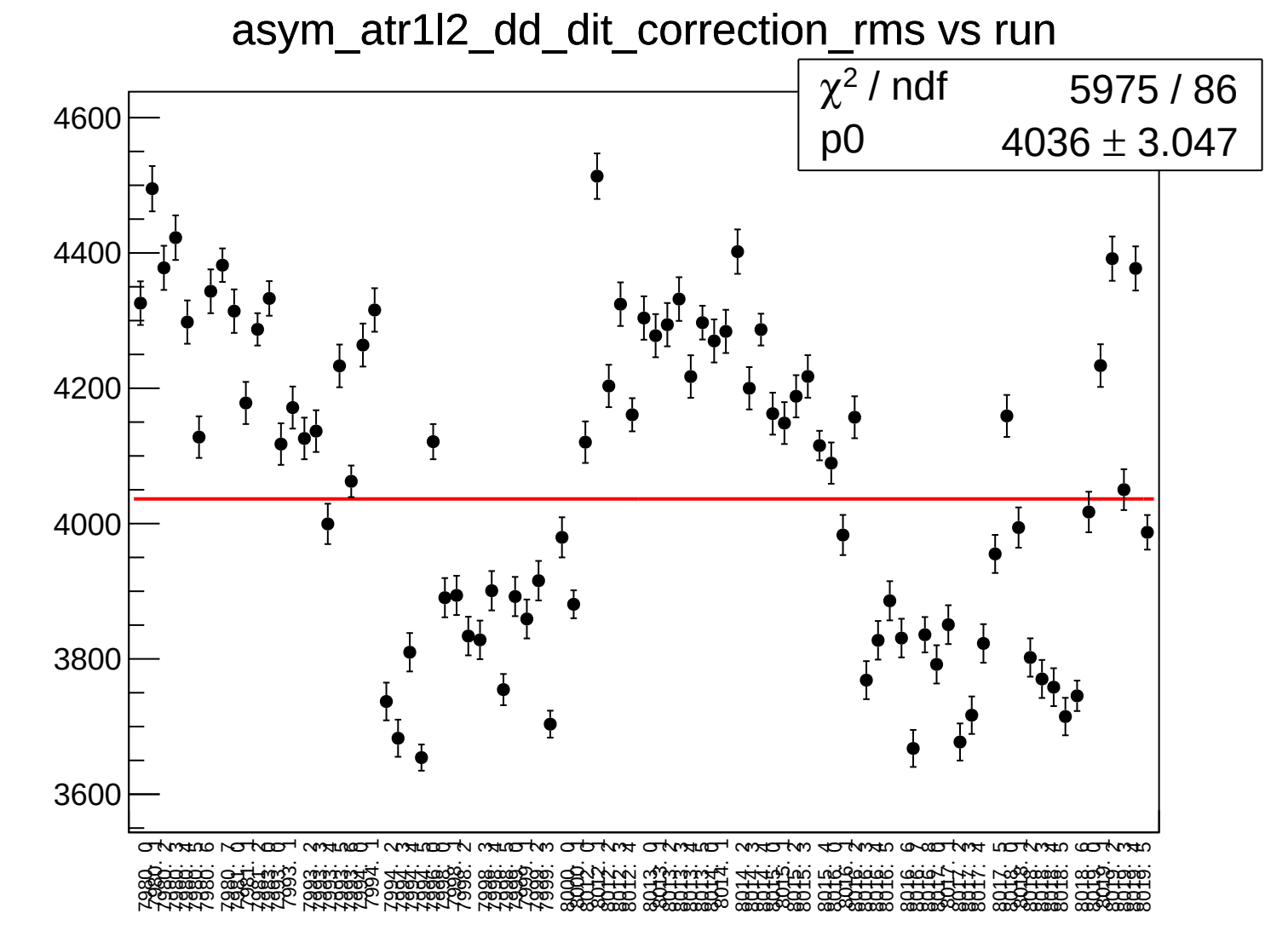

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 91.14 / 86
p0 −2670 ± 1893
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −70.34
Std Dev 0
2
1
0
−1
−2

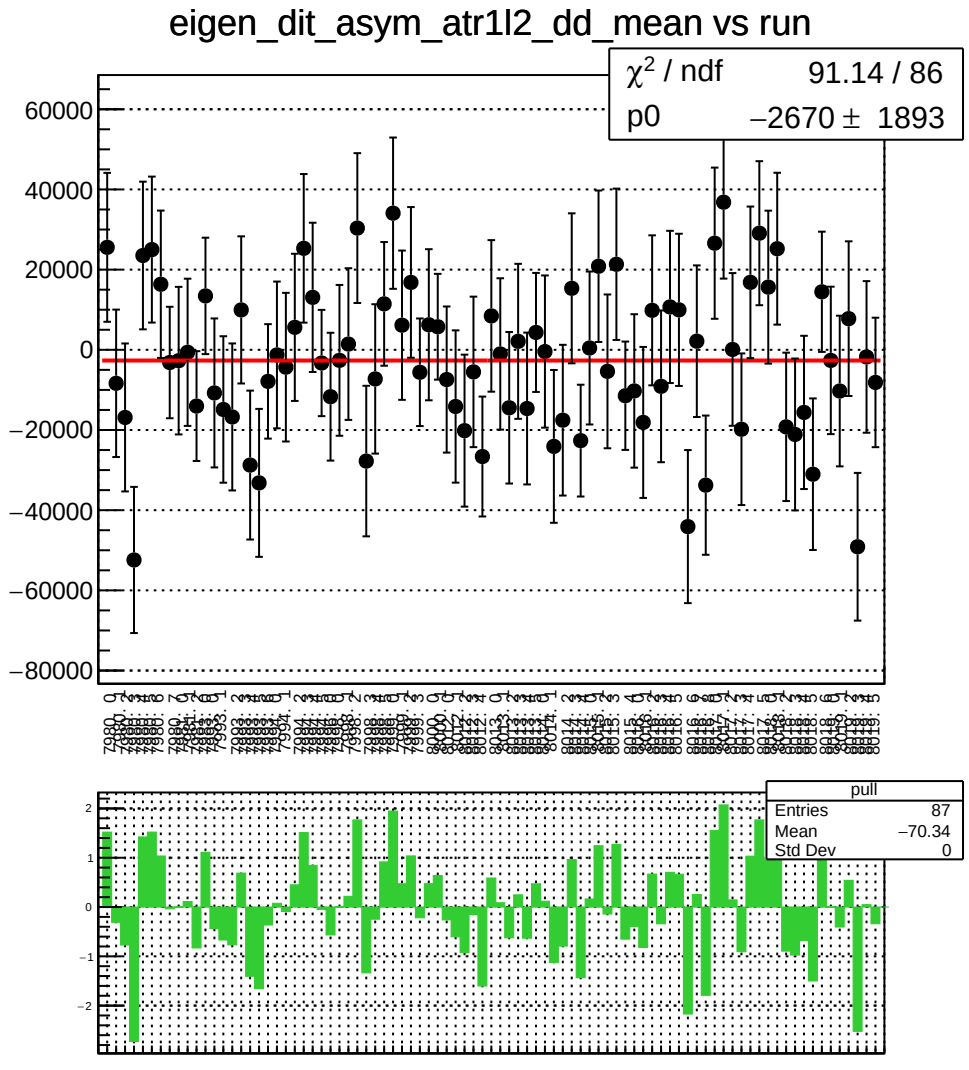

pull1D
Entries 87
Mean 0.009221
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

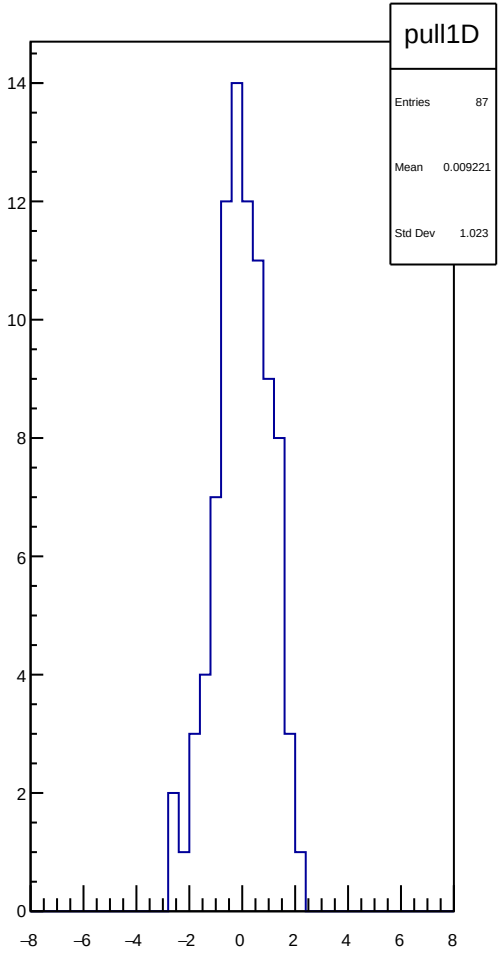

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 370.3 / 86
p0 1776 ± 1.339
1860
1840
1820
1800
1780
1760
1740
1720

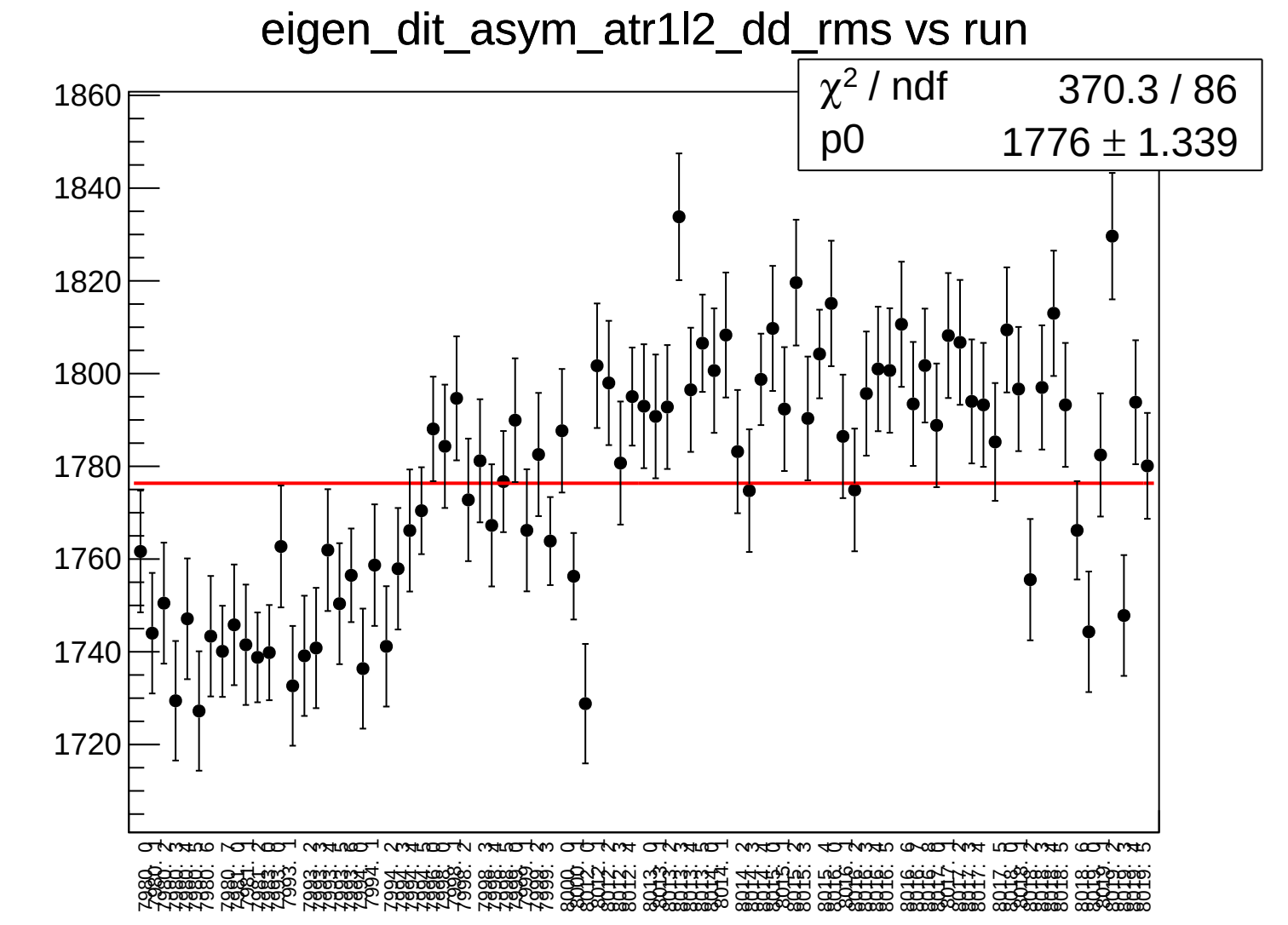

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.78 / 86
p0 8753 ± 4309
pull
Entries 87
Mean 5.456
Std Dev 69.83


pull1D
Entries 87
Mean −0.004249
Std Dev 0.9987

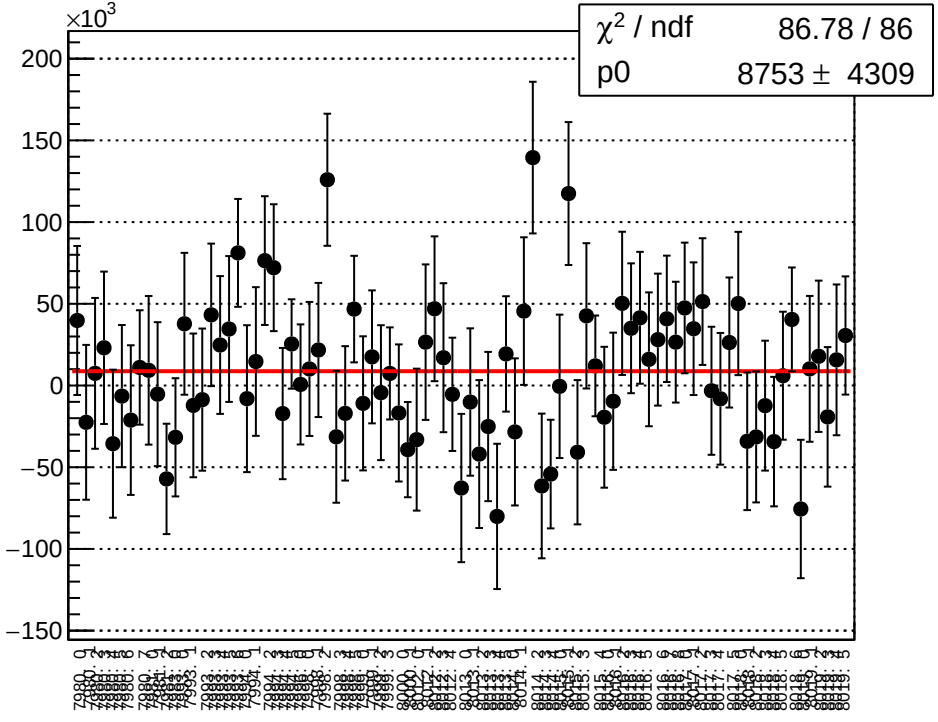

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 5975 / 86
p0 4036 ± 3.047
4600
4400
4200
4000
3800
3600

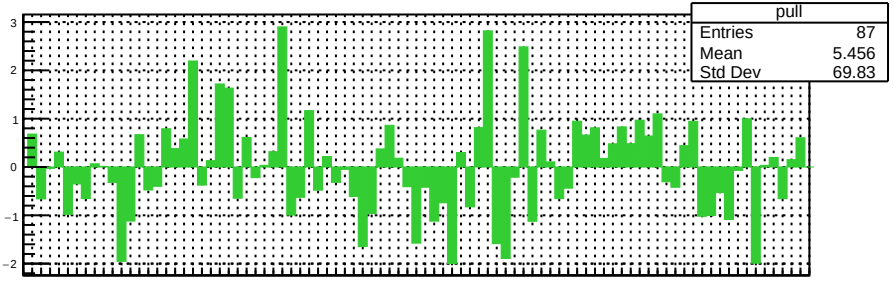

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 91.14 / 86
p0 −2670 ± 1893
pull
Entries 87
Mean −70.34
Std Dev 0

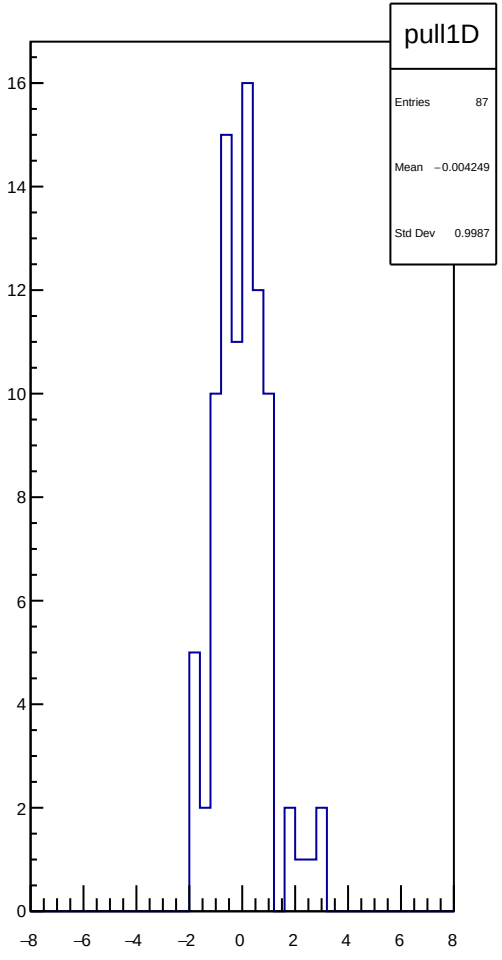

pull1D
Entries 87
Mean 0.009221
Std Dev 1.023

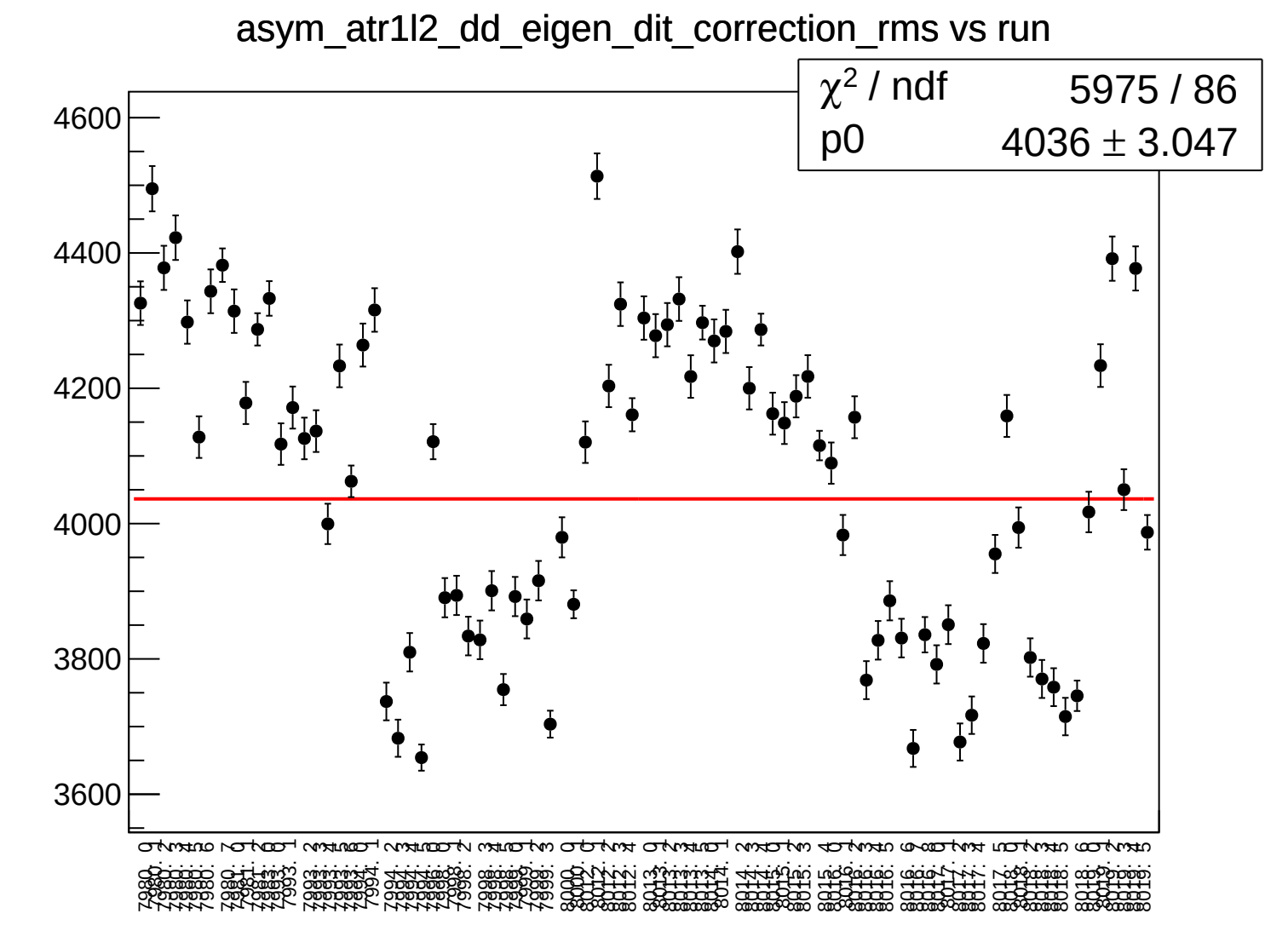

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 370.3 / 86
p0 1776 ± 1.339
1860
1840
1820
1800
1780
1760
1740
1720

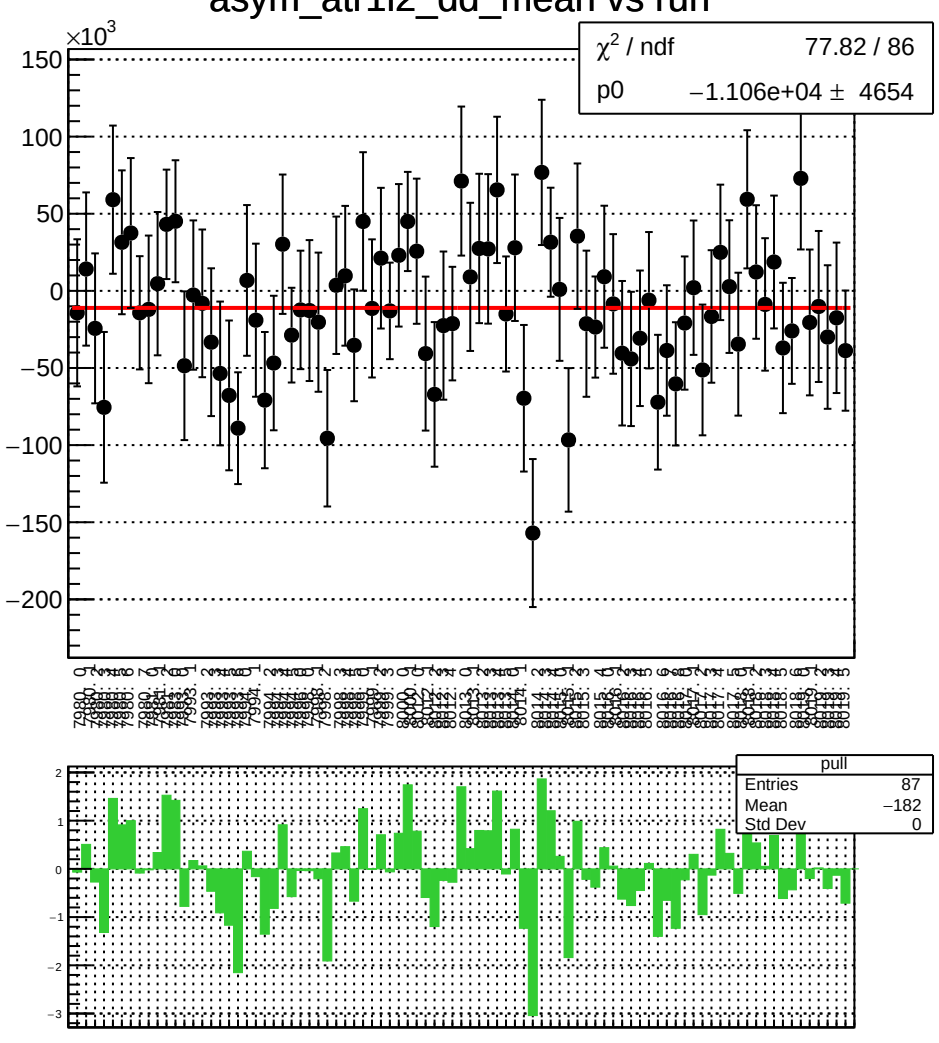
asym_atr1l2_dd_eigen_dit_correction_mean vs run

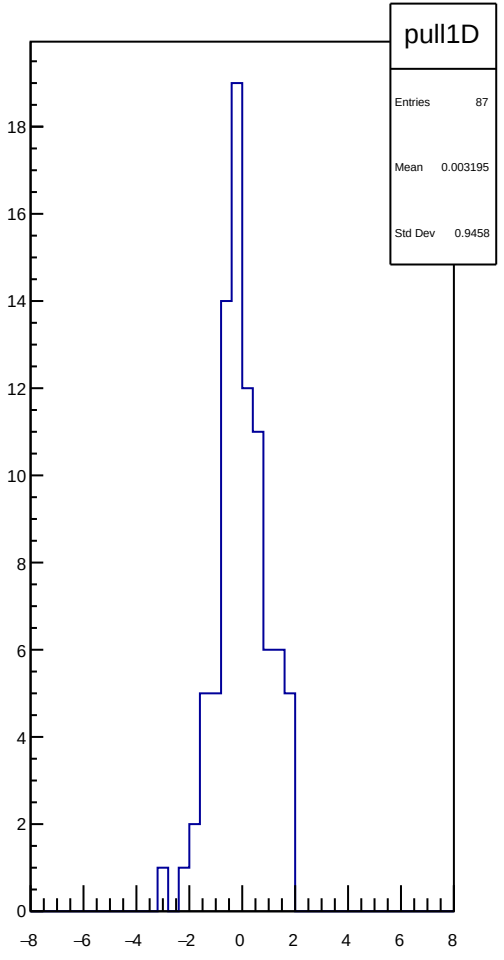


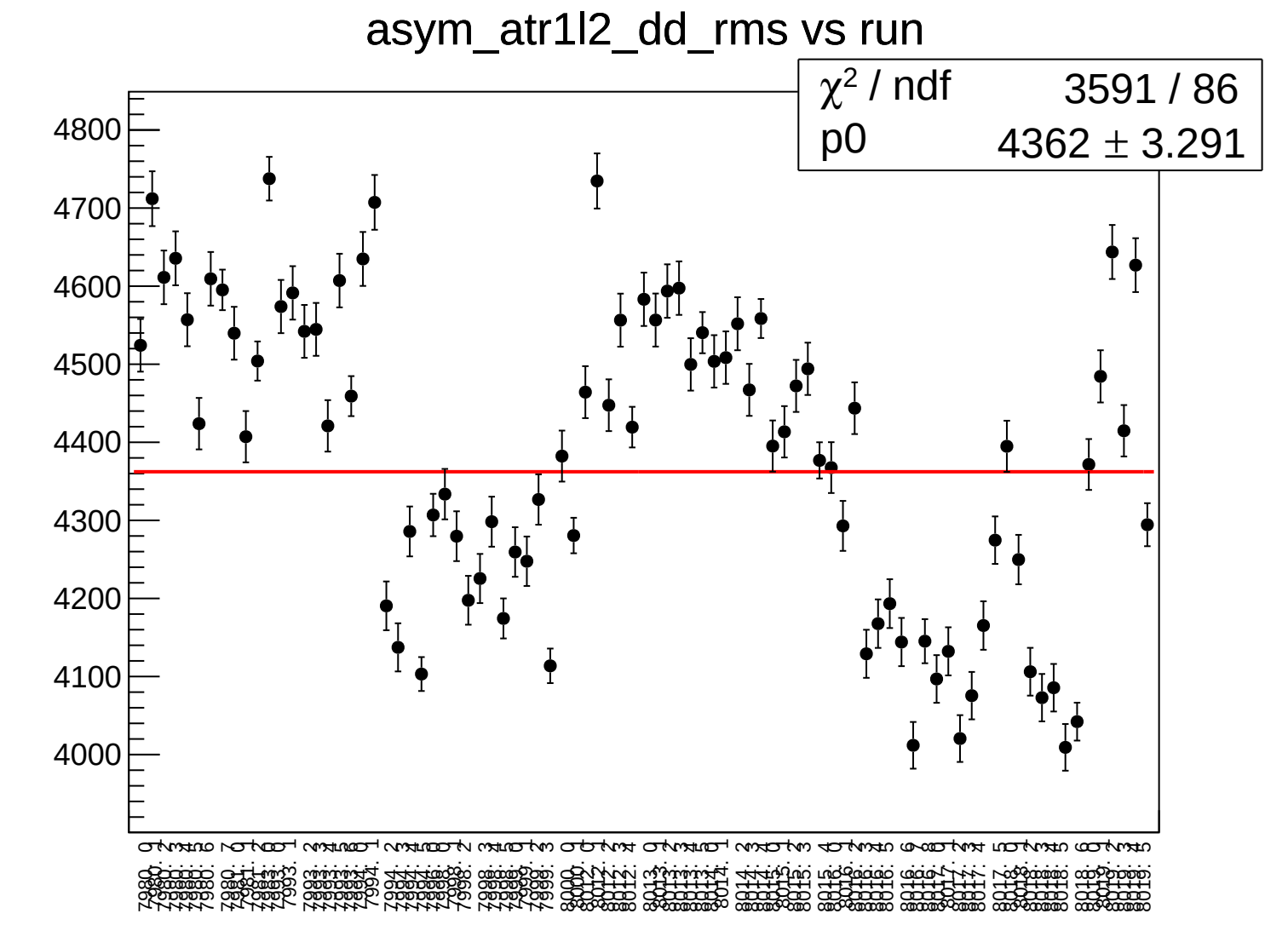


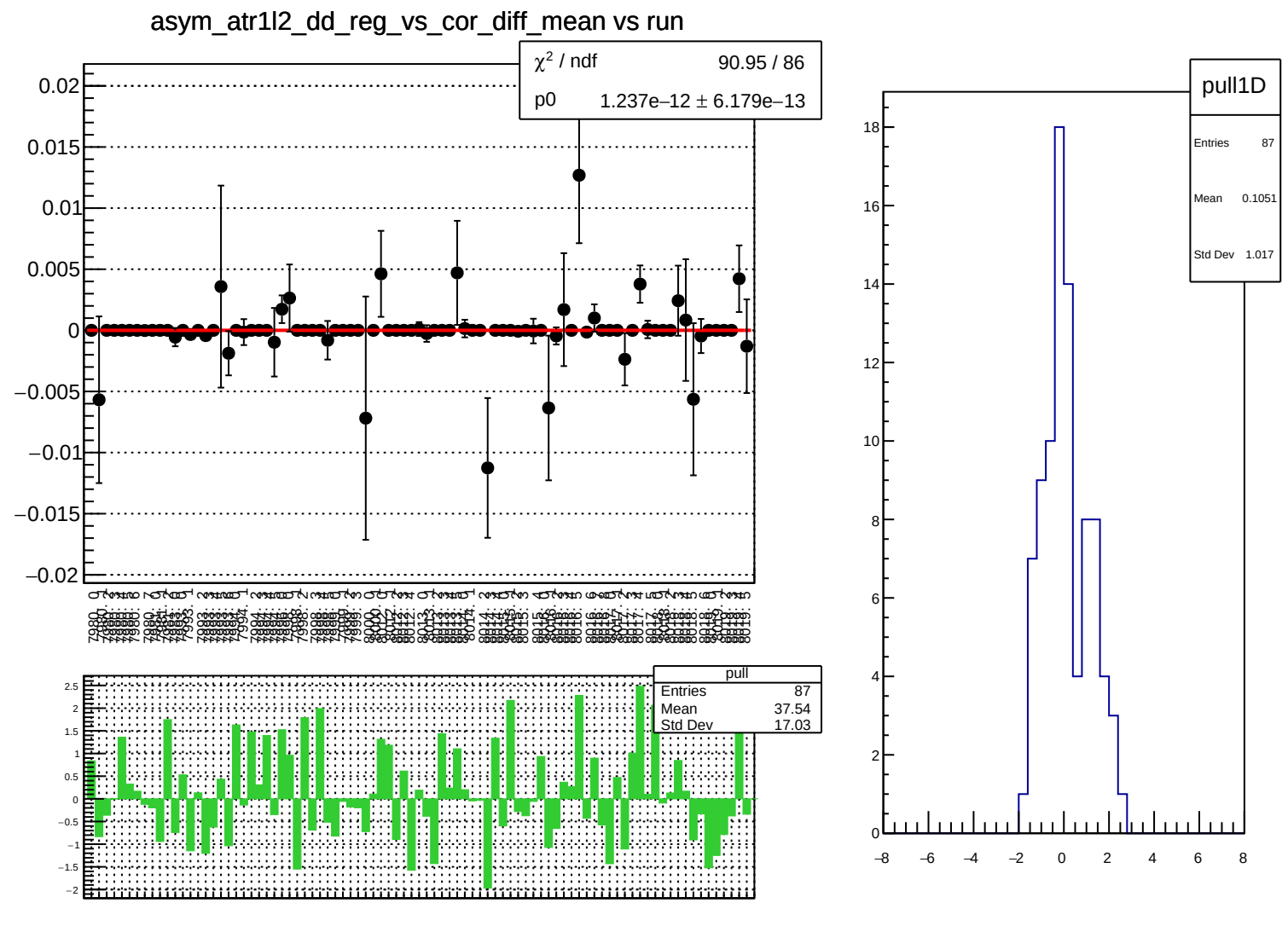


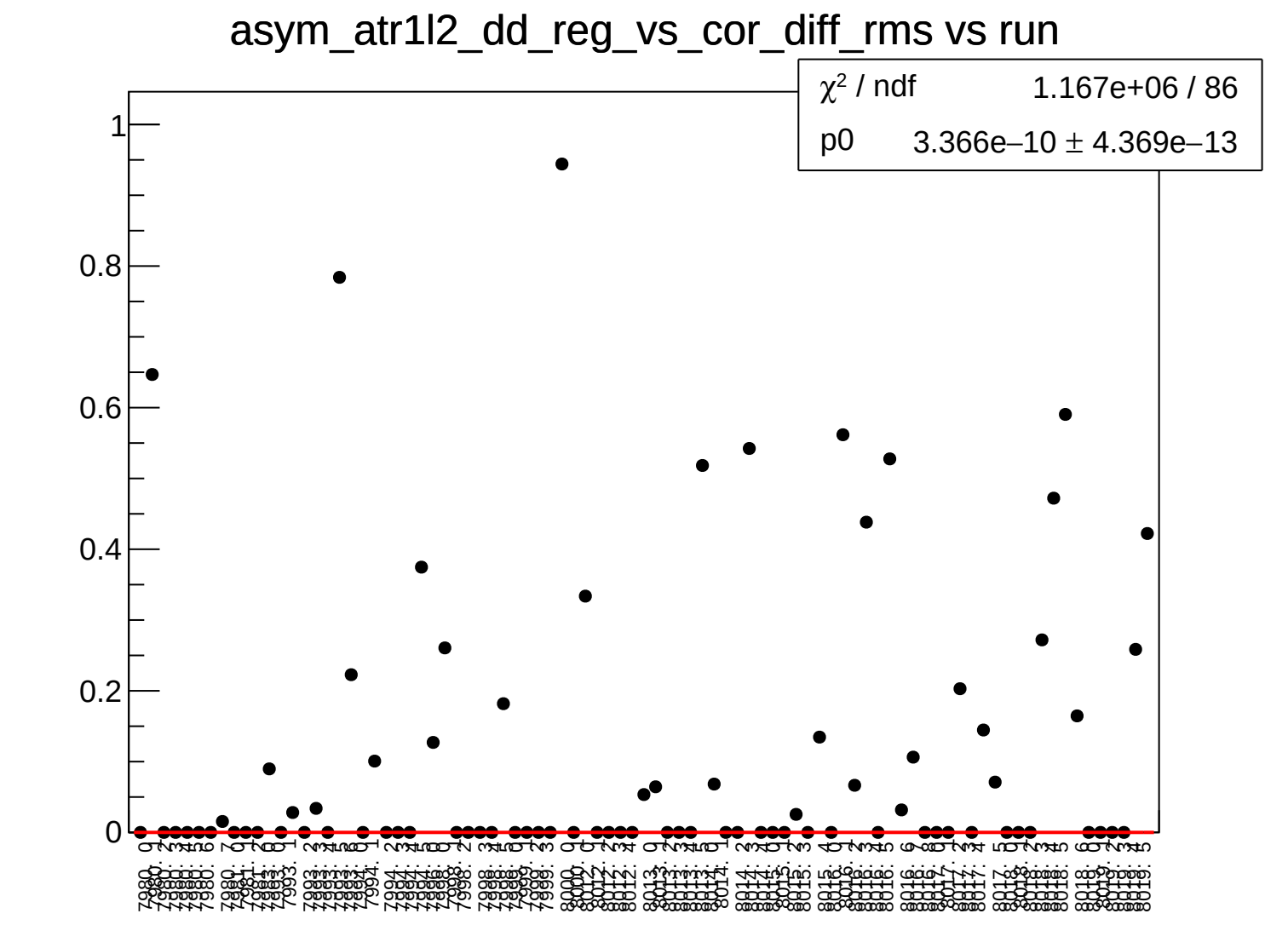

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5975 / 86
p0 4036 ± 3.047
4600
4400
4200
4000
3800
3600

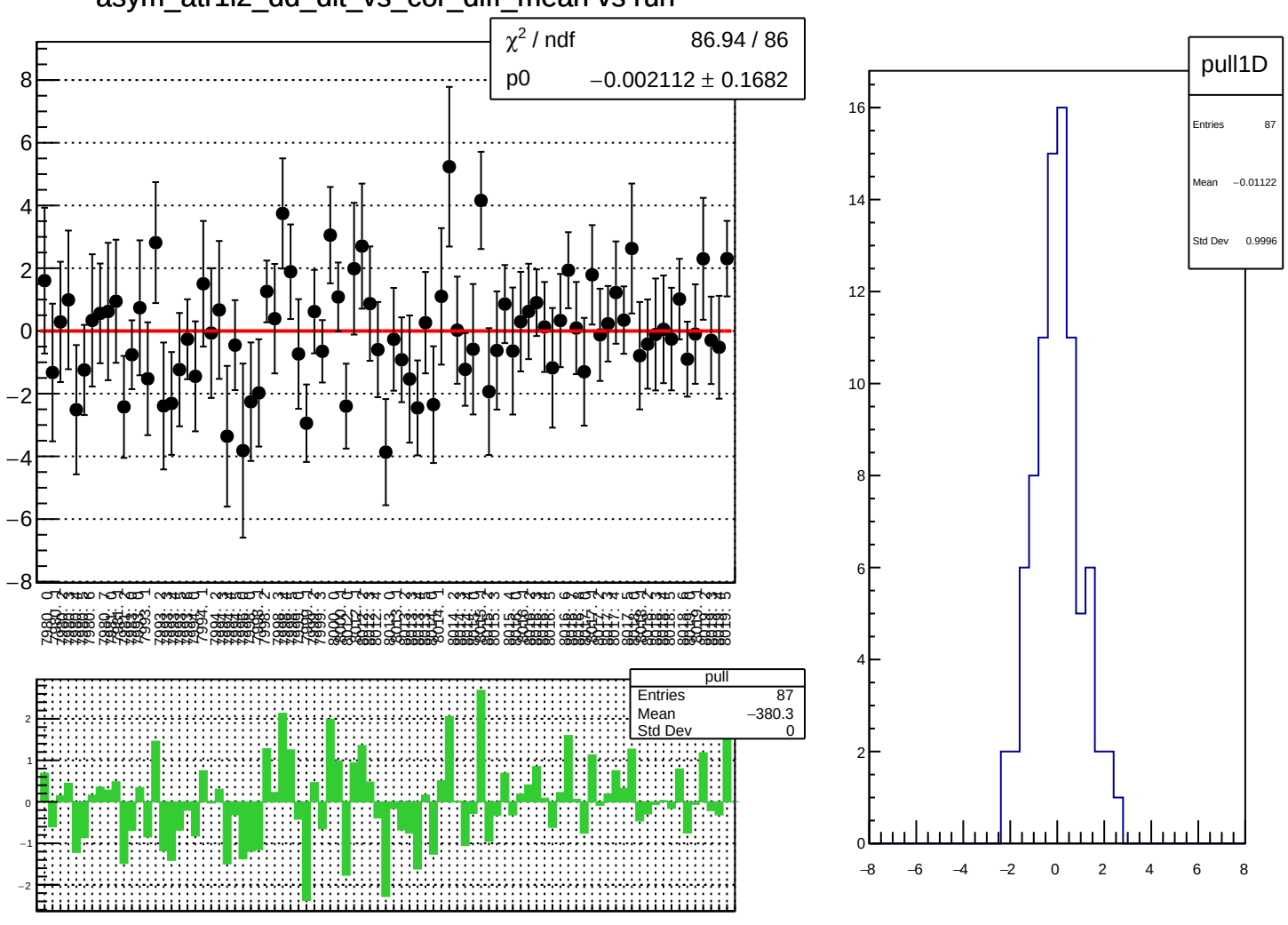

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 77.82 / 86
p0 −1.106e+04 ± 4654
pull
Entries 87
Mean −182
Std Dev 0

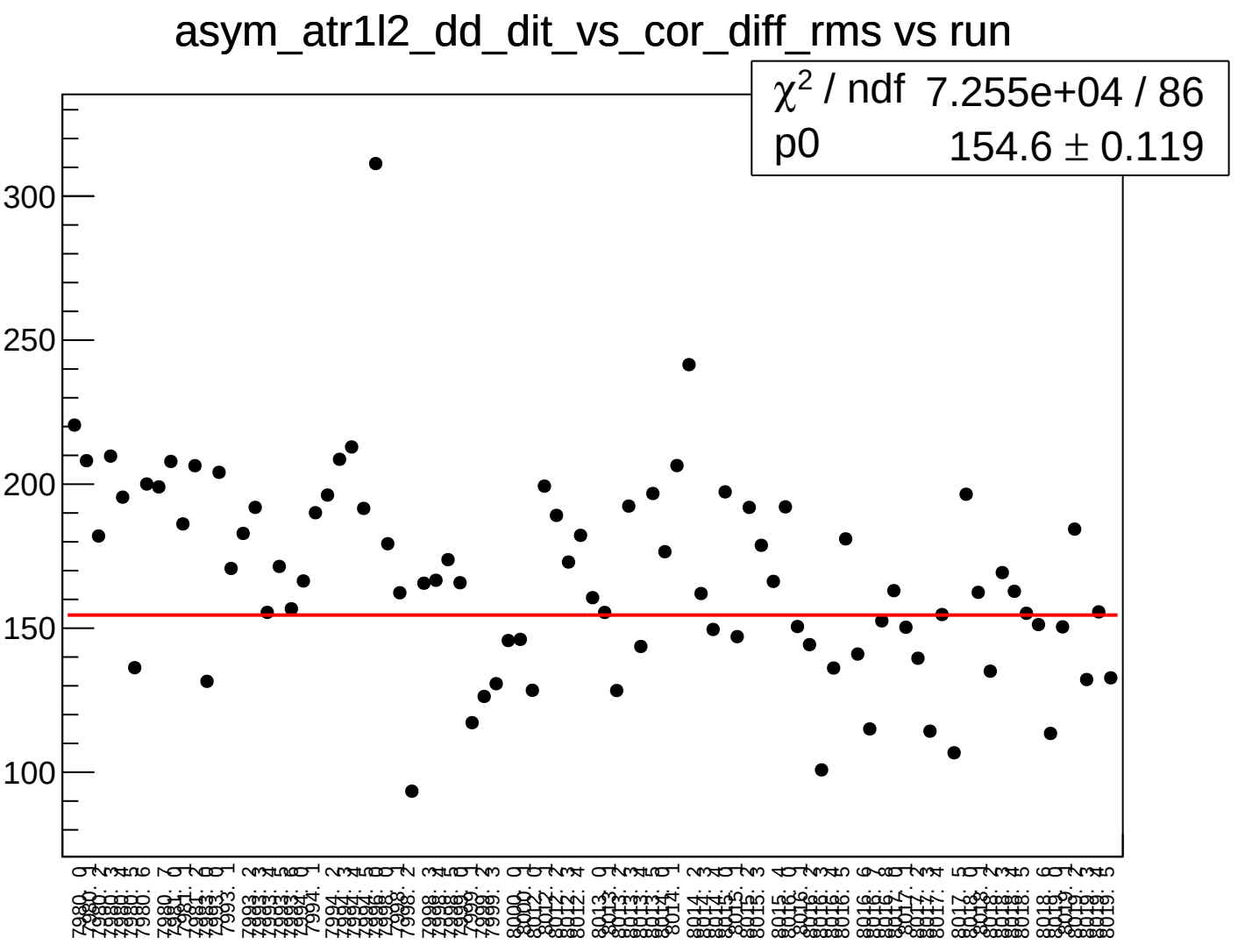

pull1D
Entries 87
Mean 0.003195
Std Dev 0.9458

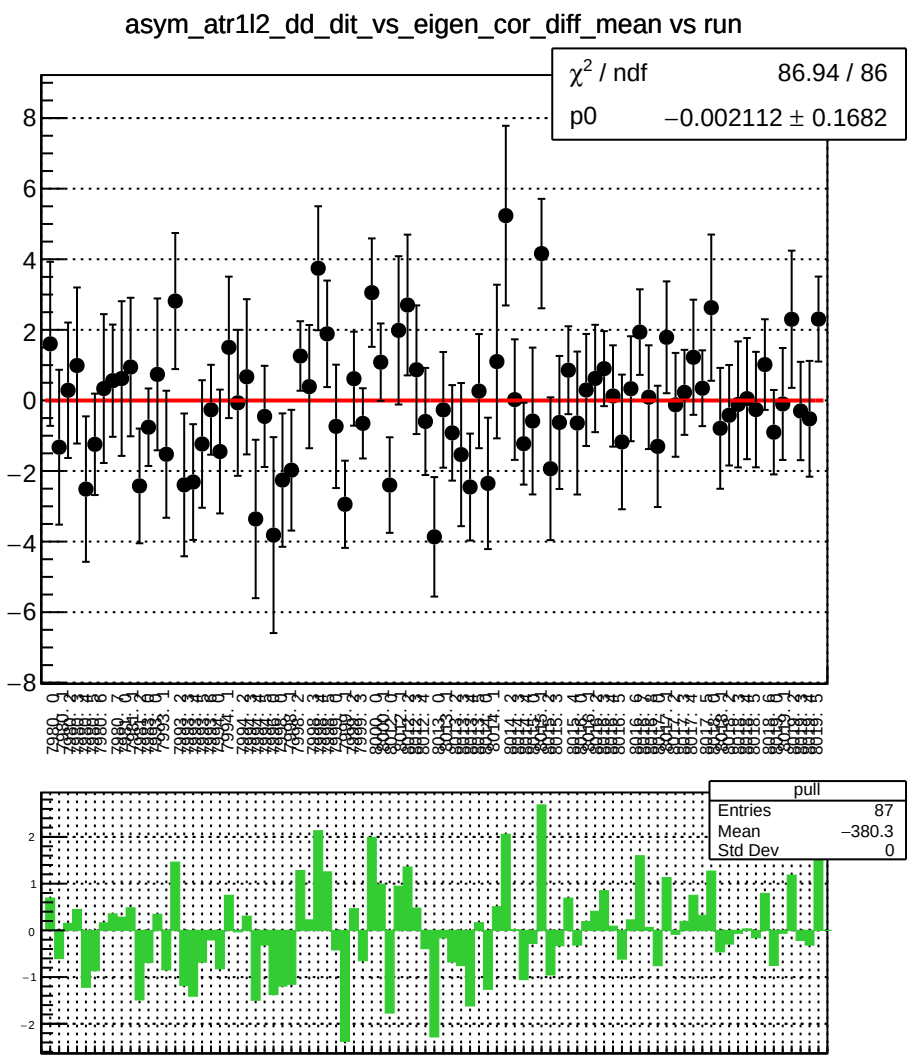

asym_atr1l2_dd_rms vs run
χ² / ndf 3591 / 86
p0 4362 ± 3.291
4800
4700
4600
4500
4400
4300
4200
4100
4000

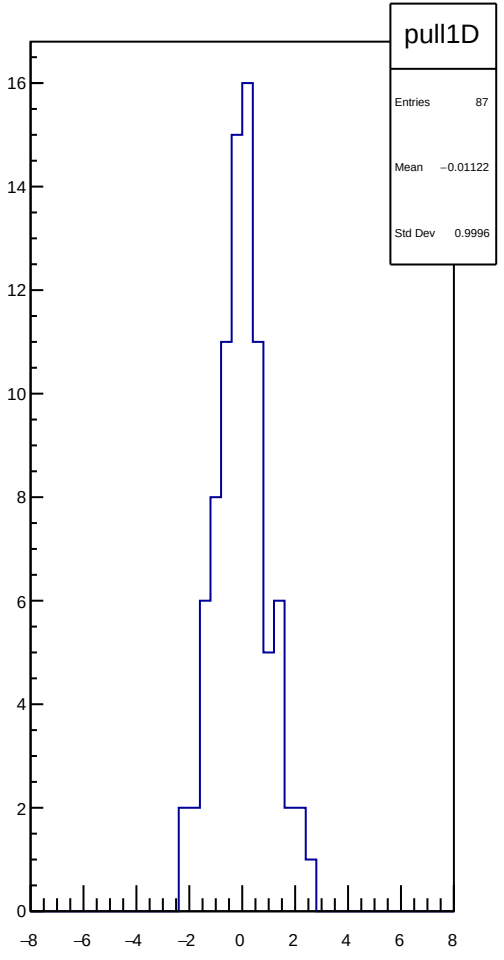

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.95 / 86
p0 1.237e−12 ± 6.179e−13
pull
Entries 87
Mean 37.54
Std Dev 17.03
pull1D
Entries 87
Mean 0.1051
Std Dev 1.017

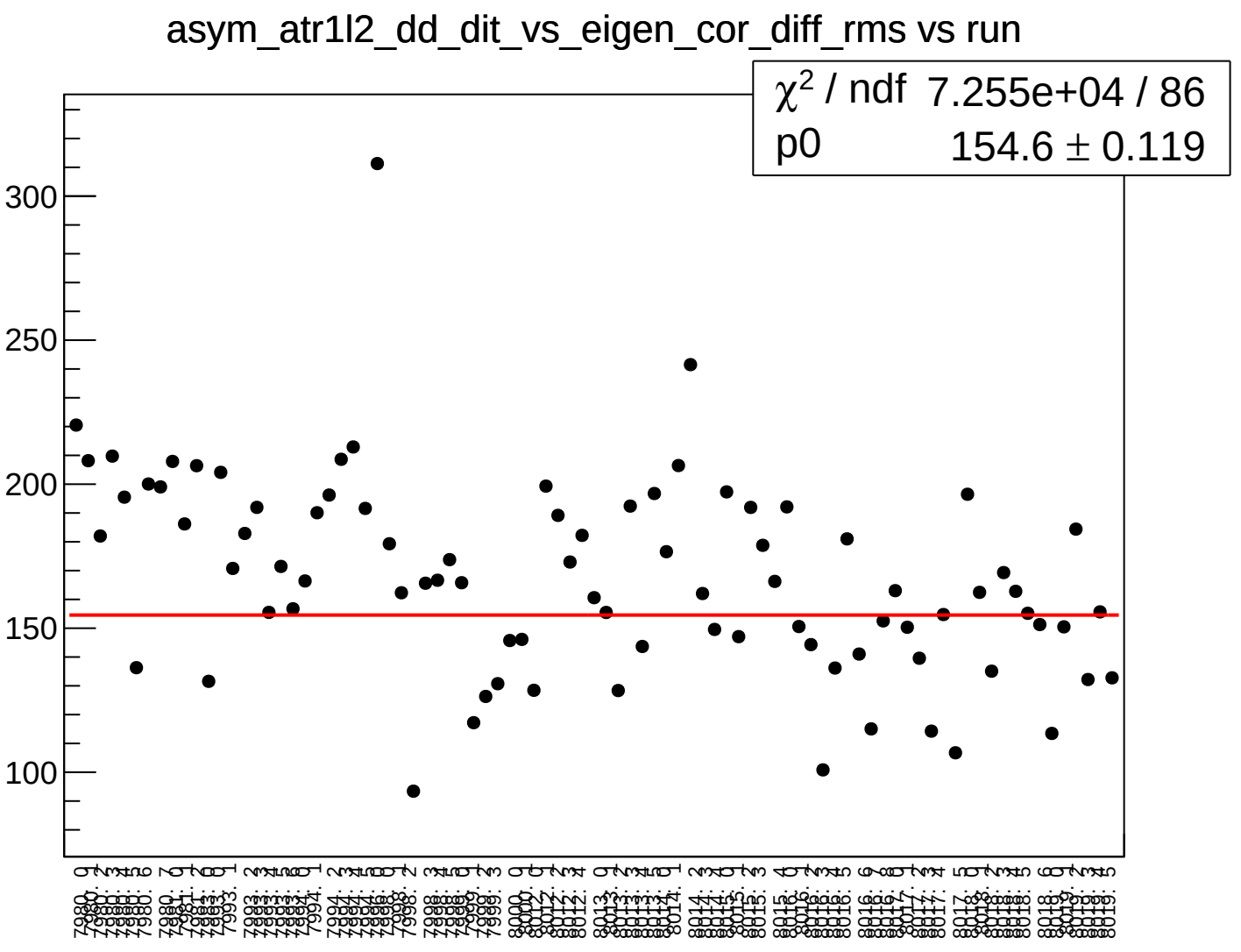

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.167e+06 / 86
p0 3.366e−10 ± 4.369e−13
1
0.8
0.6
0.4
0.2
0

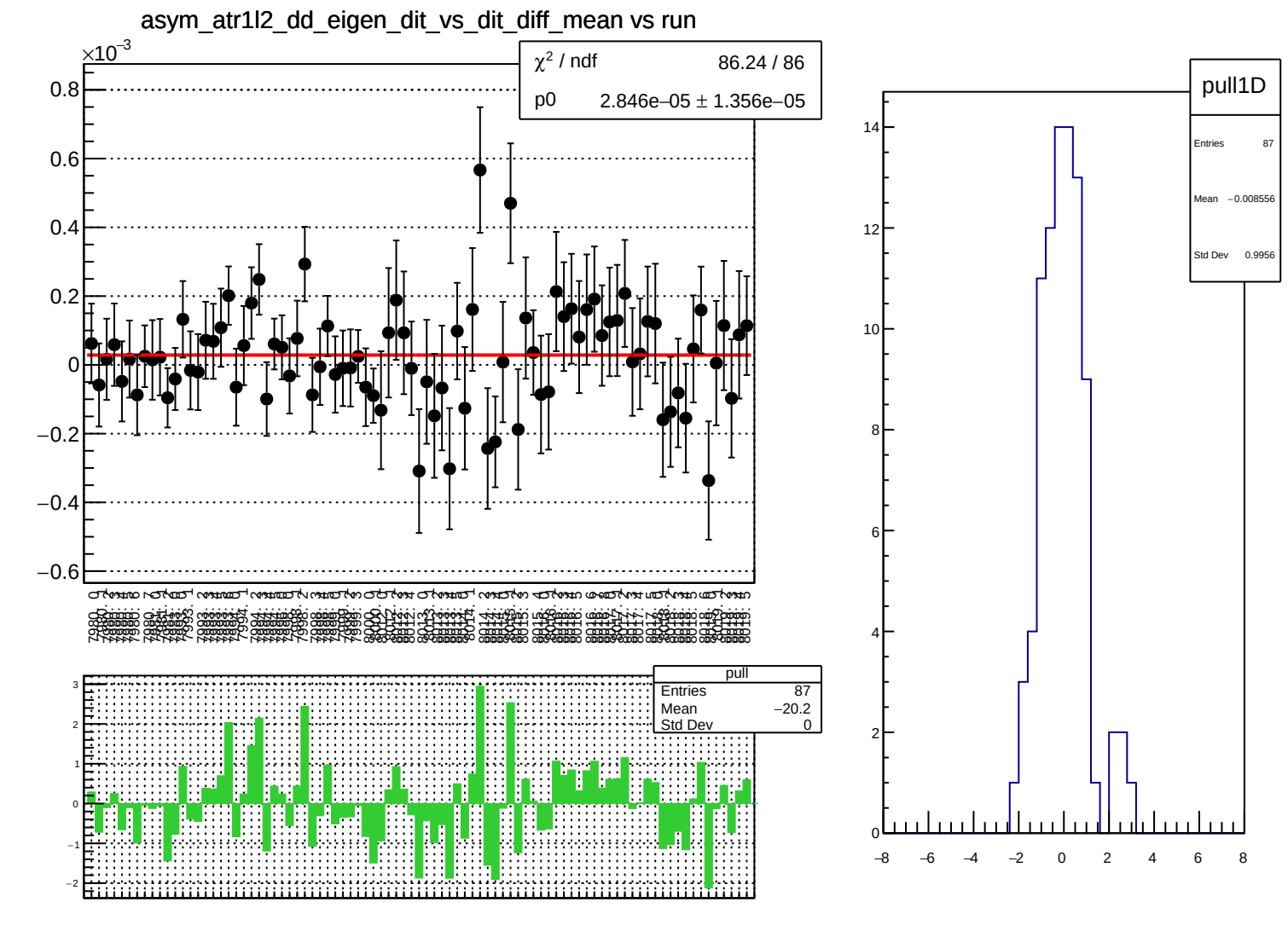

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.94 / 86
p0 −0.002112 ± 0.1682
pull
Entries 87
Mean −380.3
Std Dev 0
pull1D
Entries 87
Mean −0.01122
Std Dev 0.9996

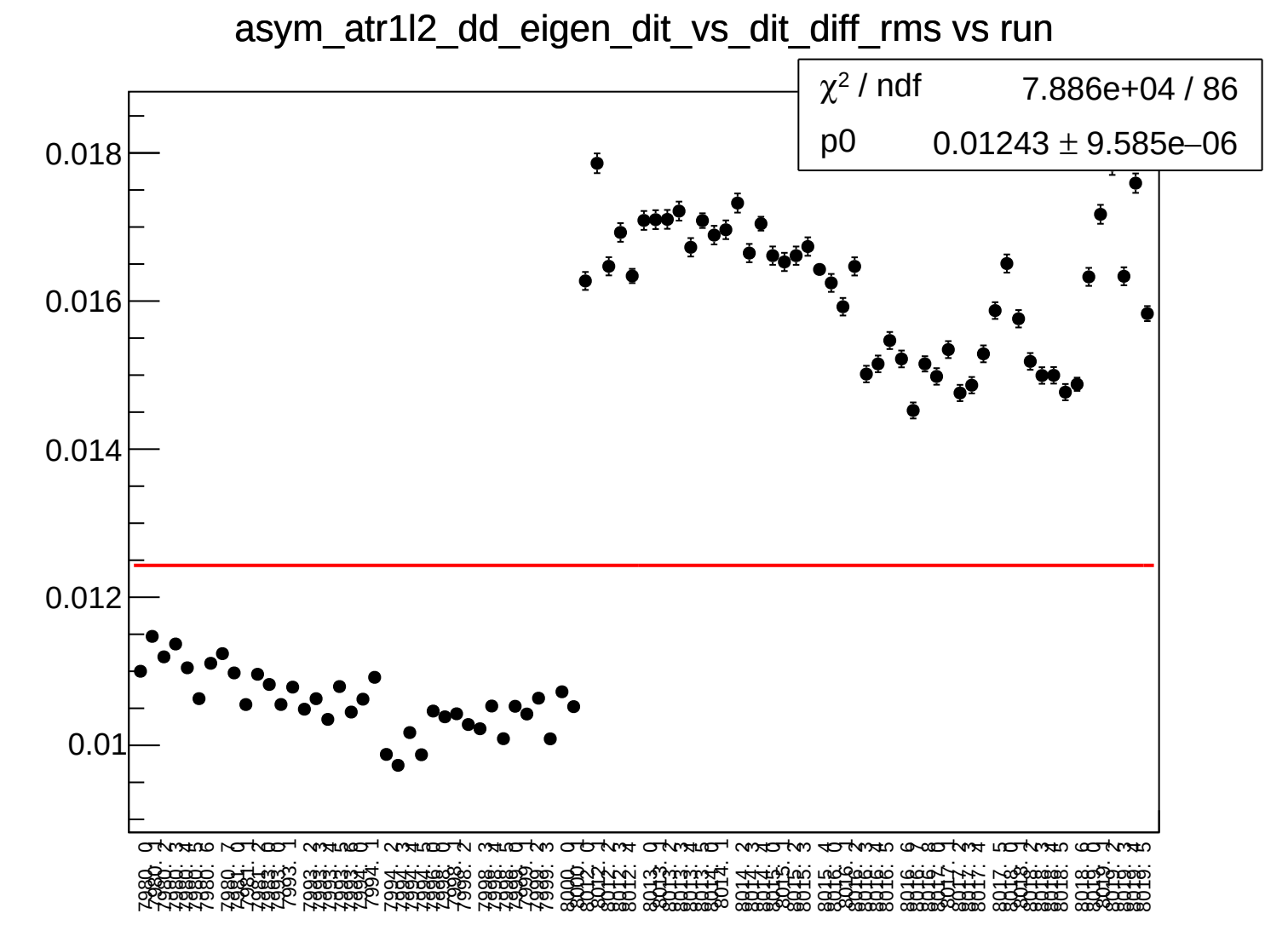

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.255e+04 / 86
p0 154.6 ± 0.119
300
250
200
150
100

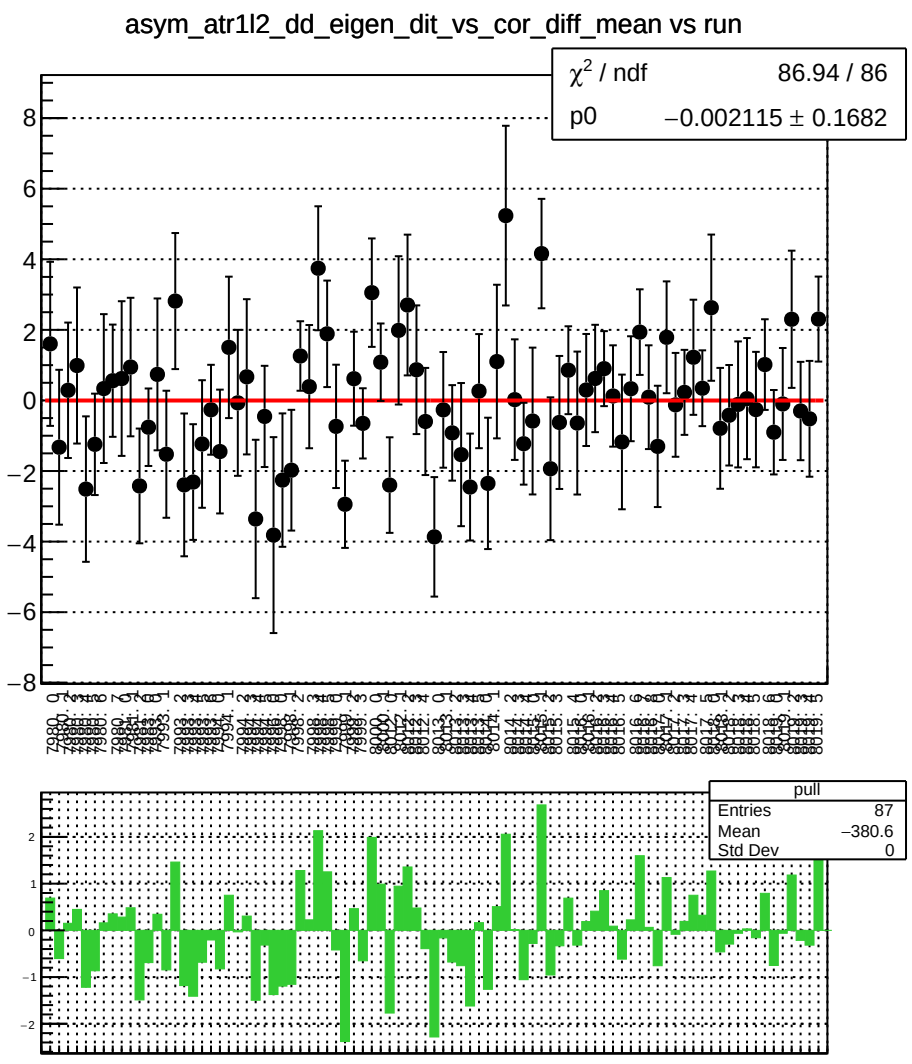

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.94 / 86
p0 −0.002112 ± 0.1682
pull
Entries 87
Mean −380.3
Std Dev 0

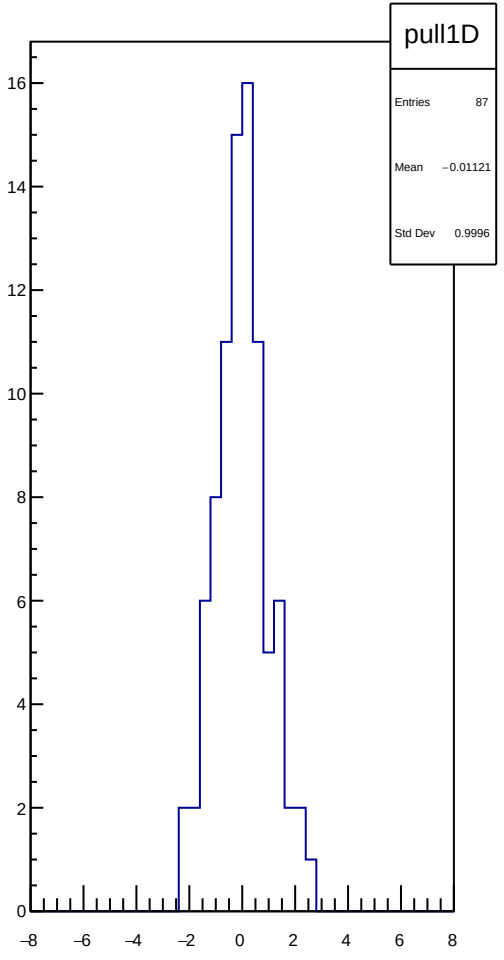

pull1D
Entries 87
Mean −0.01122
Std Dev 0.9996

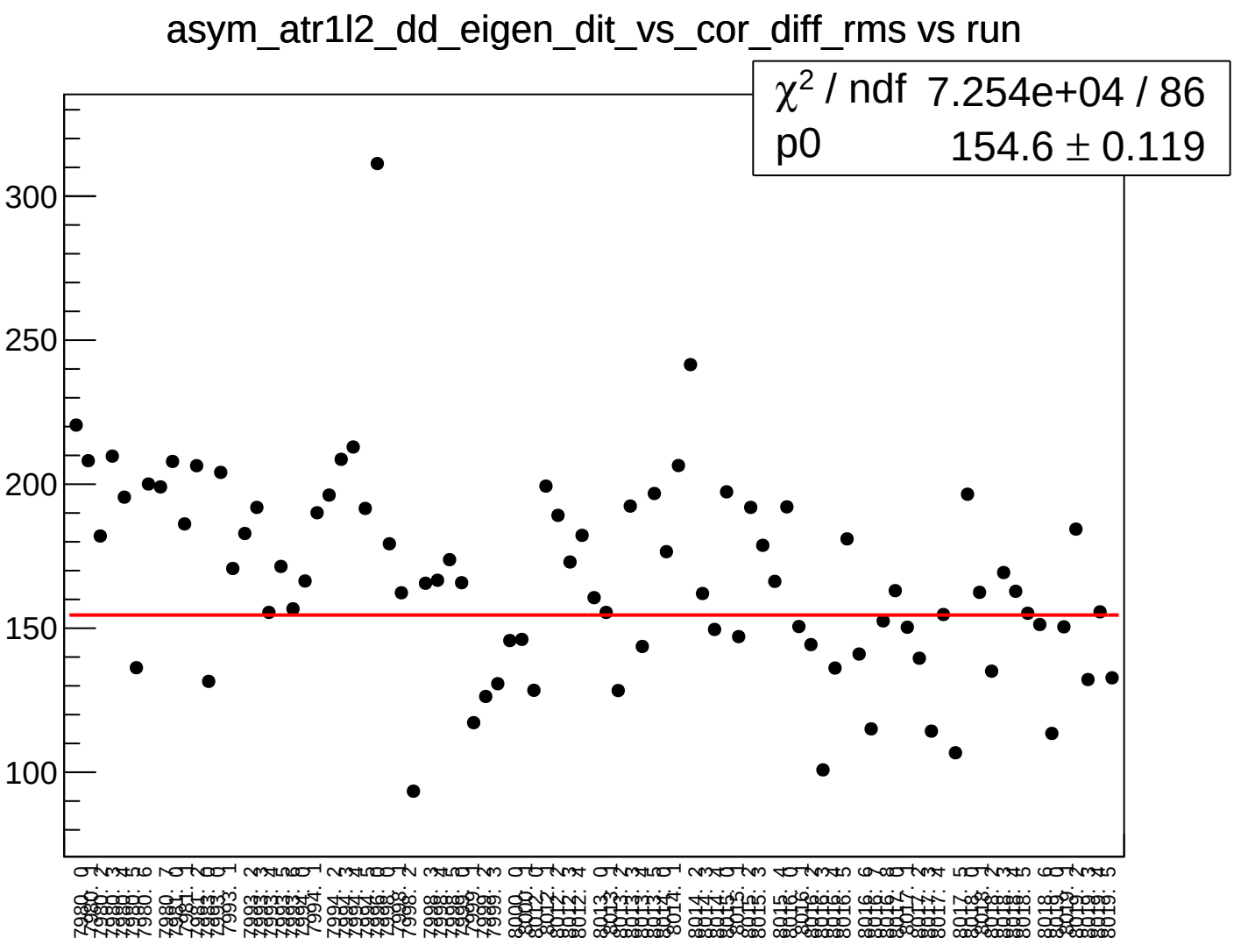

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.255e+04 / 86
p0 154.6 ± 0.119
300
250
200
150
100

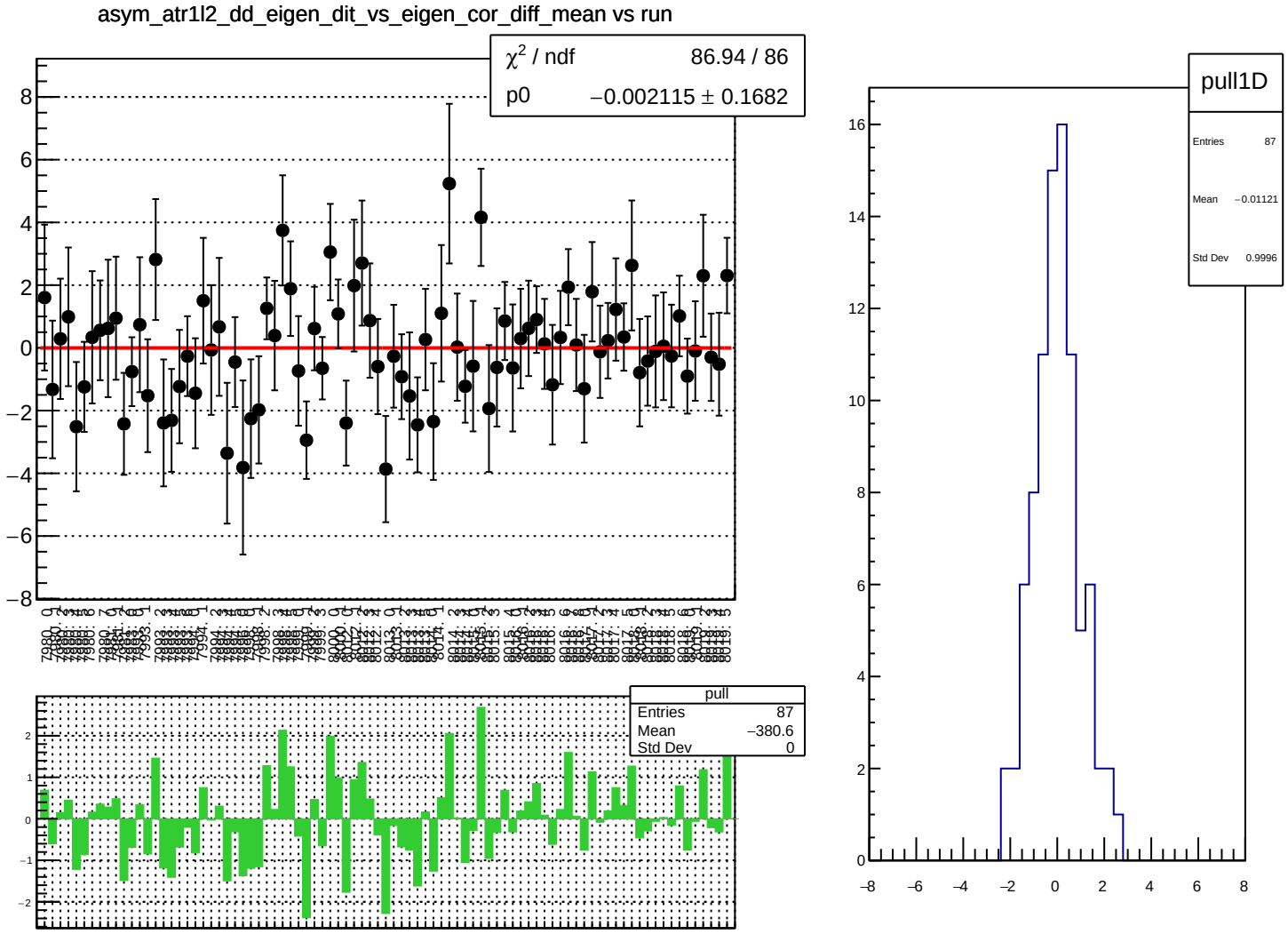

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 86.24 / 86
p0 2.846e−05 ± 1.356e−05
pull
Entries 87
Mean −20.2
Std Dev 0
pull1D
Entries 87
Mean −0.008556
Std Dev 0.9956

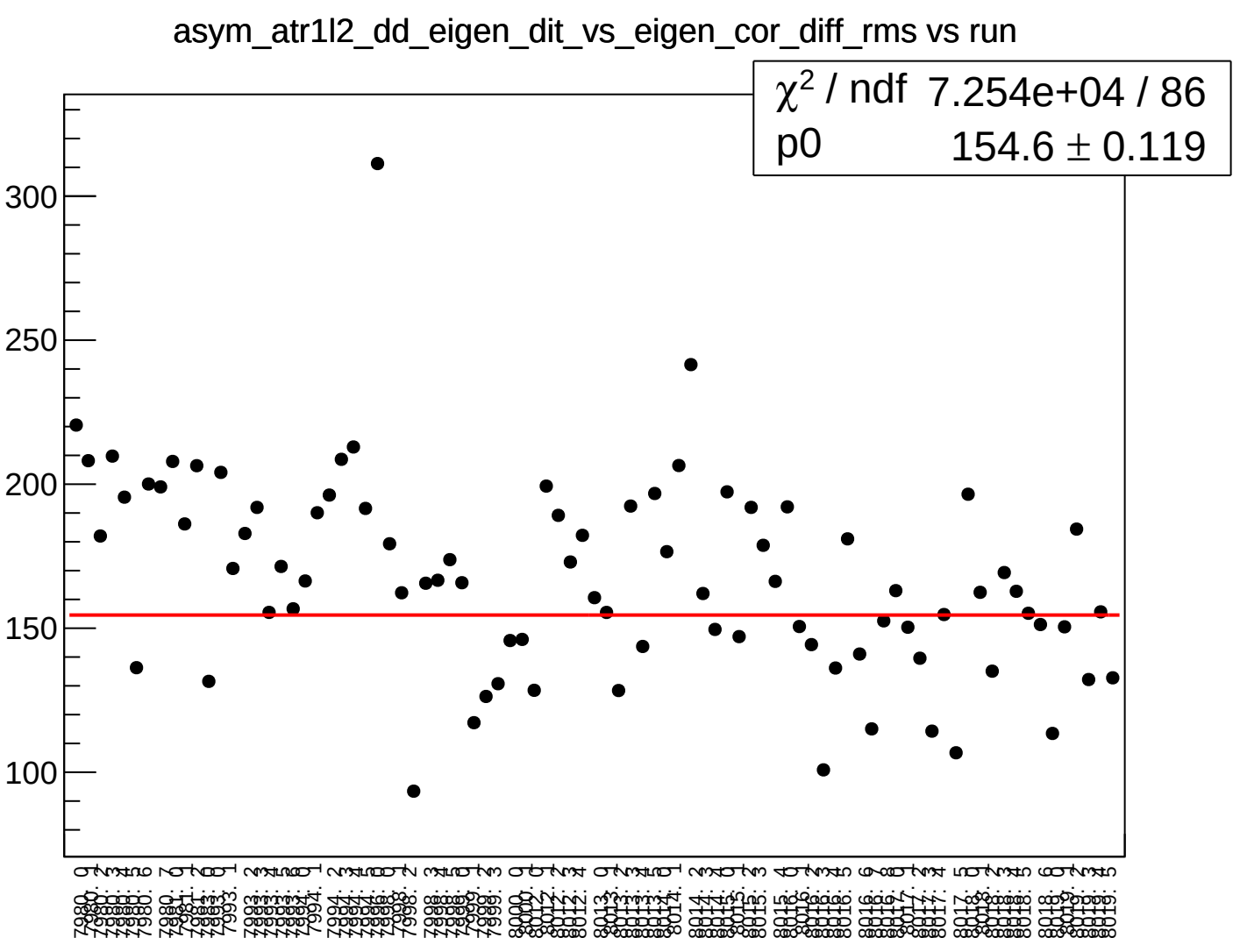

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.886e+04 / 86
p0 0.01243 ± 9.585e−06
0.018
0.016
0.014
0.012
0.01

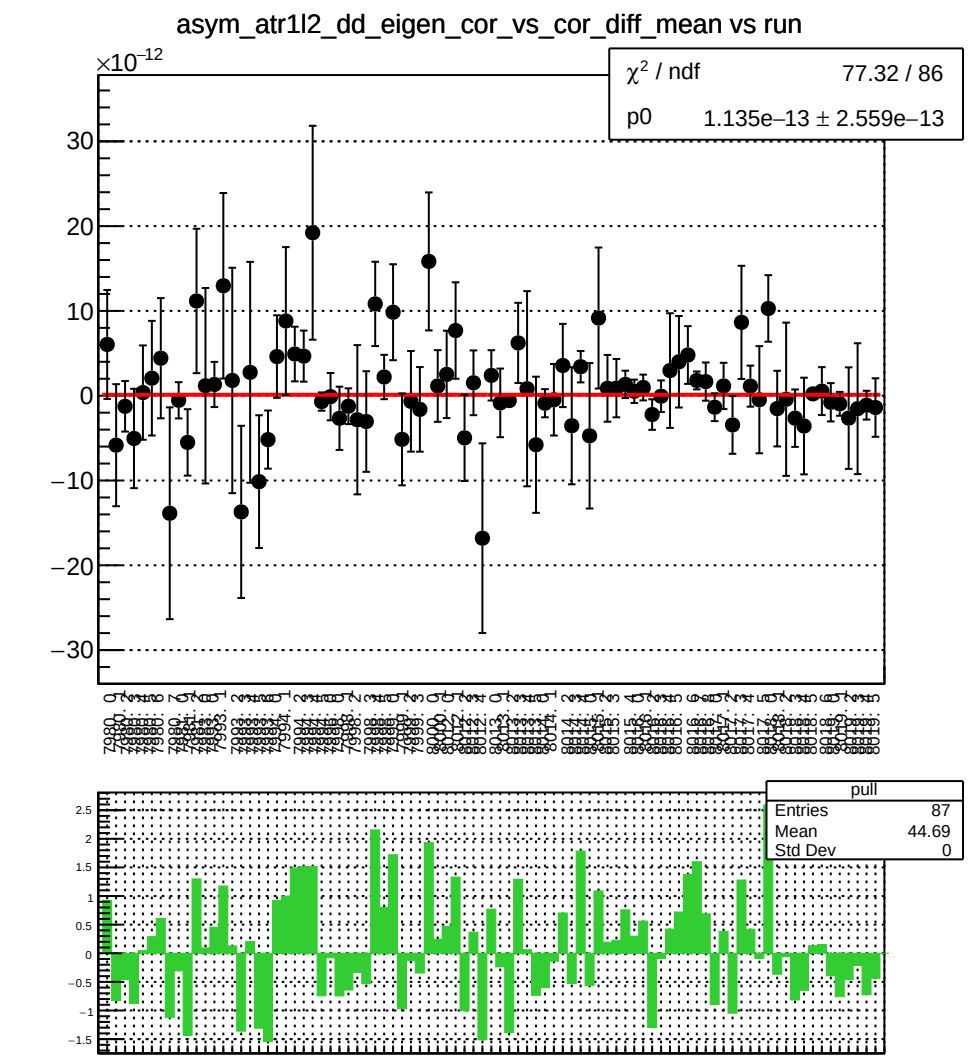

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.94 / 86
p0 −0.002115 ± 0.1682
pull
Entries 87
Mean −380.6
Std Dev 0

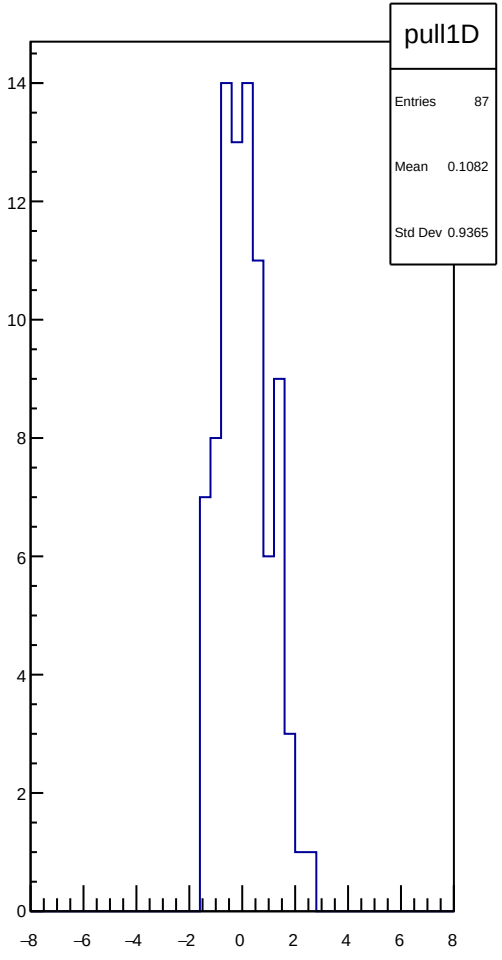

pull1D
Entries 87
Mean −0.01121
Std Dev 0.9996

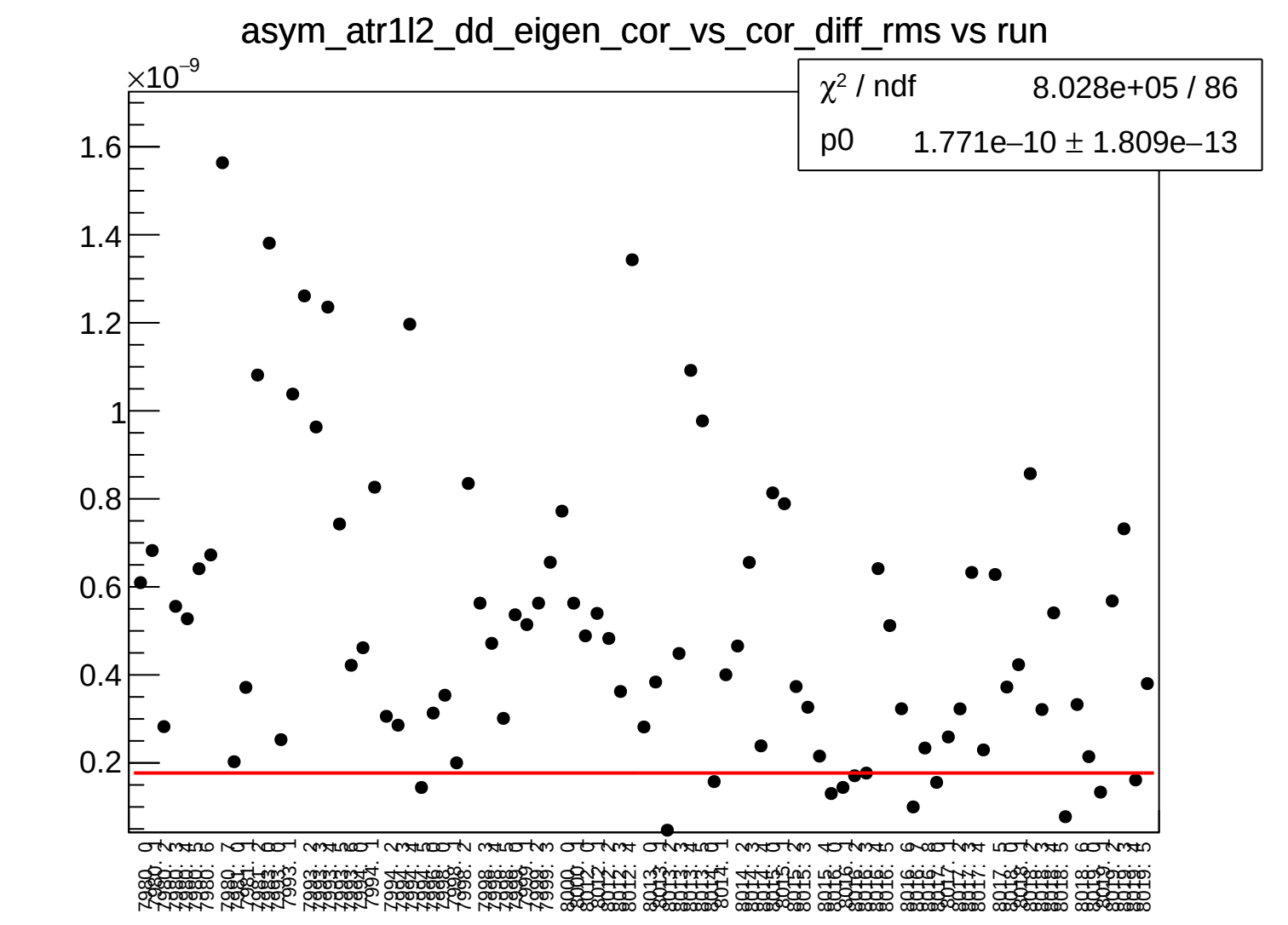

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.254e+04 / 86
p0 154.6 ± 0.119
300
250
200
150
100

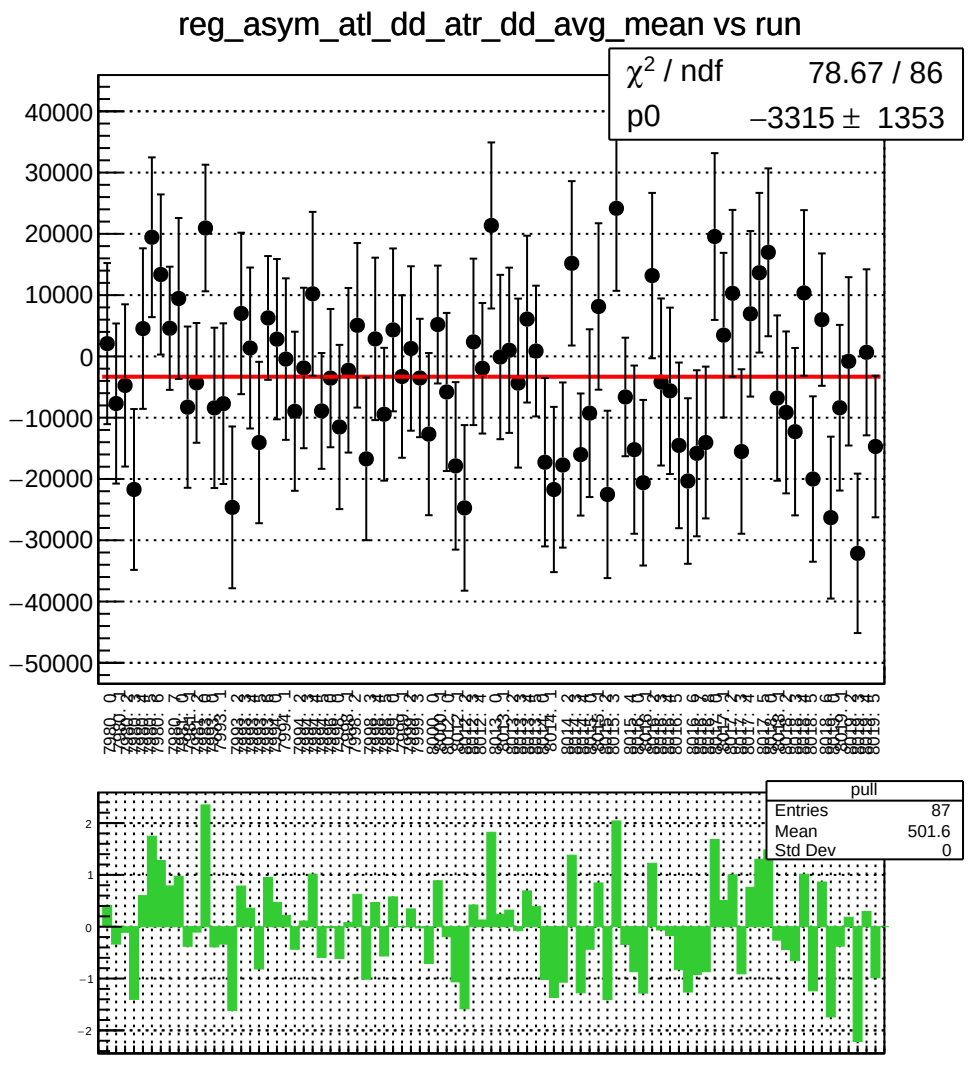

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.94 / 86
p0 −0.002115 ± 0.1682
pull
Entries 87
Mean −380.6
Std Dev 0
pull1D
Entries 87
Mean −0.01121
Std Dev 0.9996

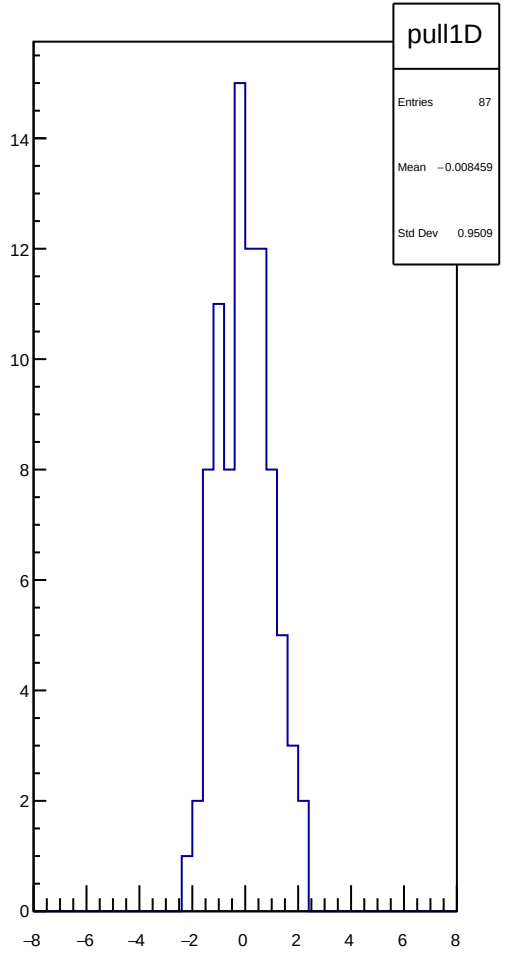

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.254e+04 / 86
p0 154.6 ± 0.119
300
250
200
150
100

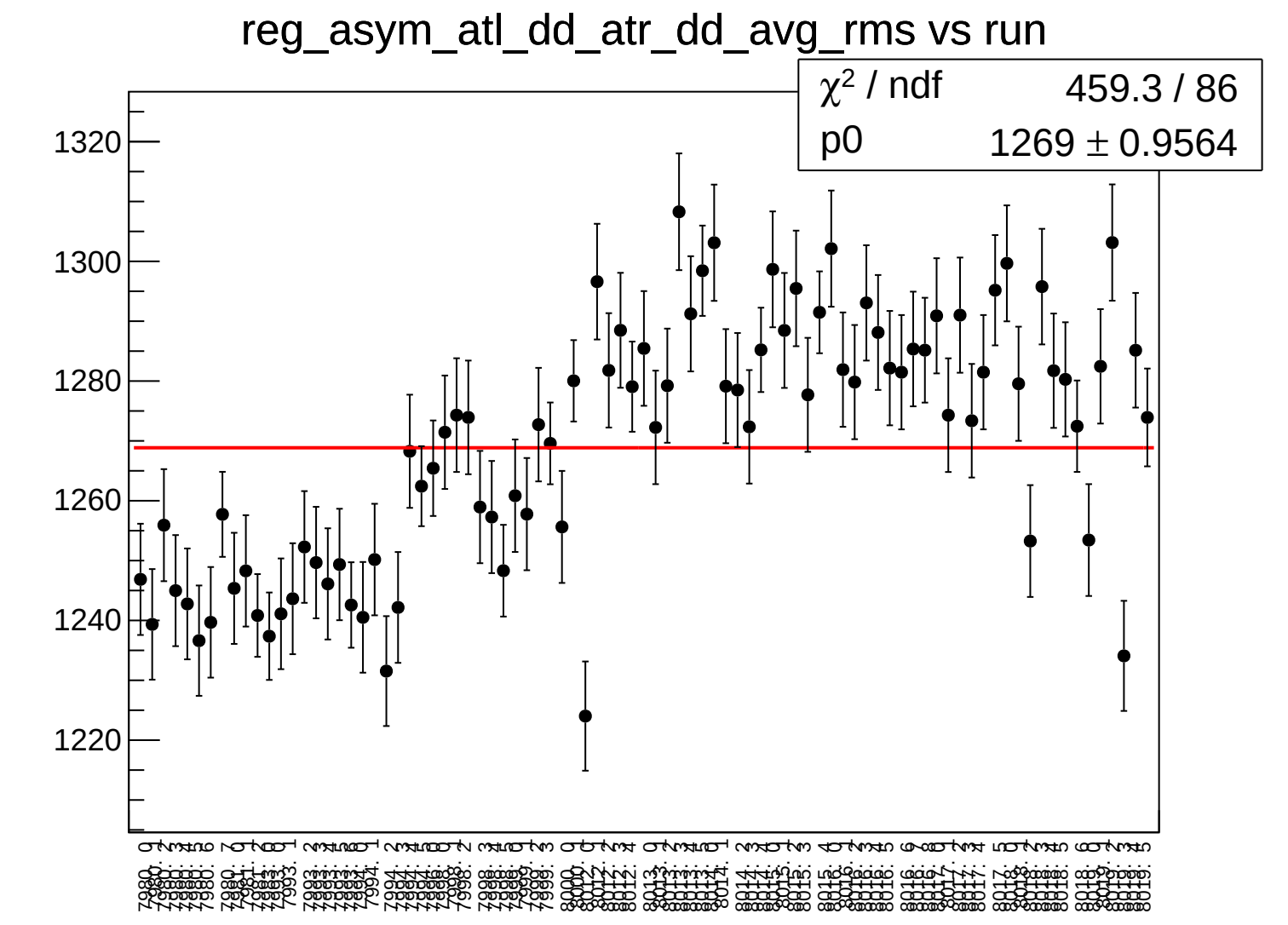

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.32 / 86
p0 1.135e−13 ± 2.559e−13
pull
Entries 87
Mean 44.69
Std Dev 0

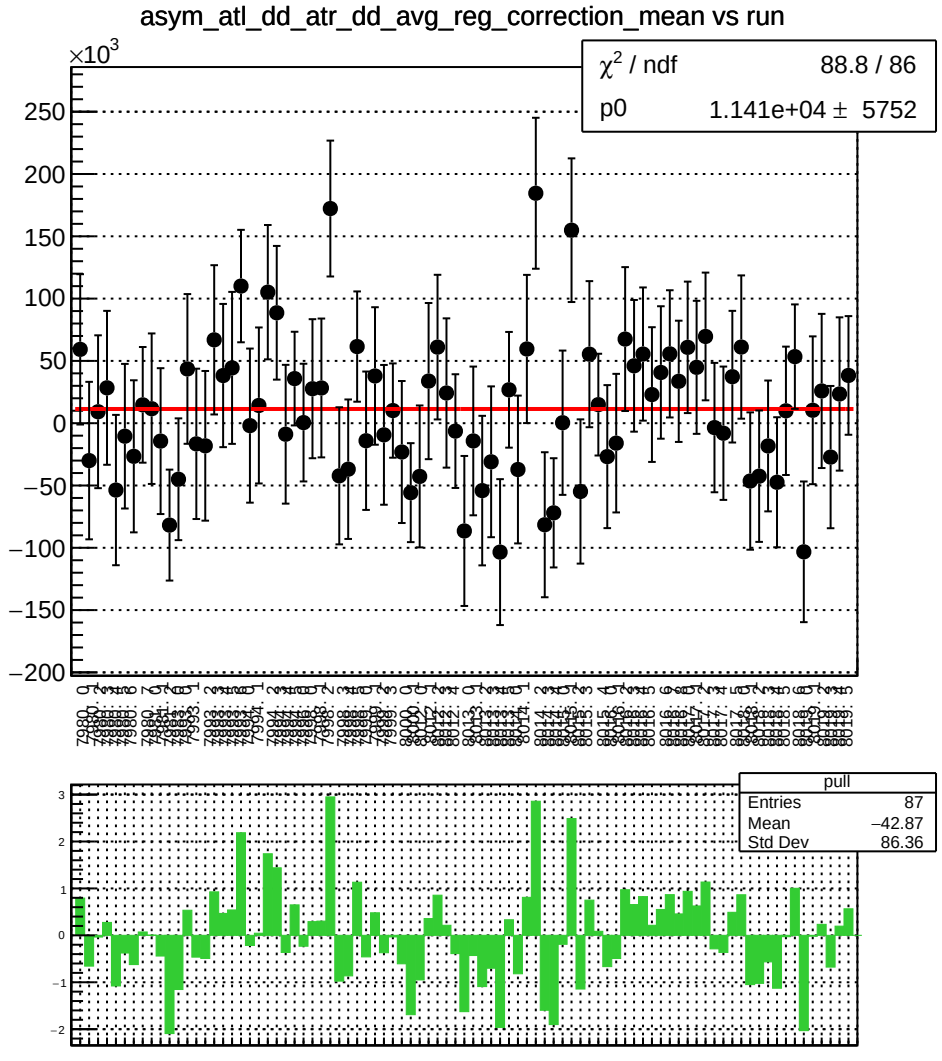

pull1D
Entries 87
Mean 0.1082
Std Dev 0.9365

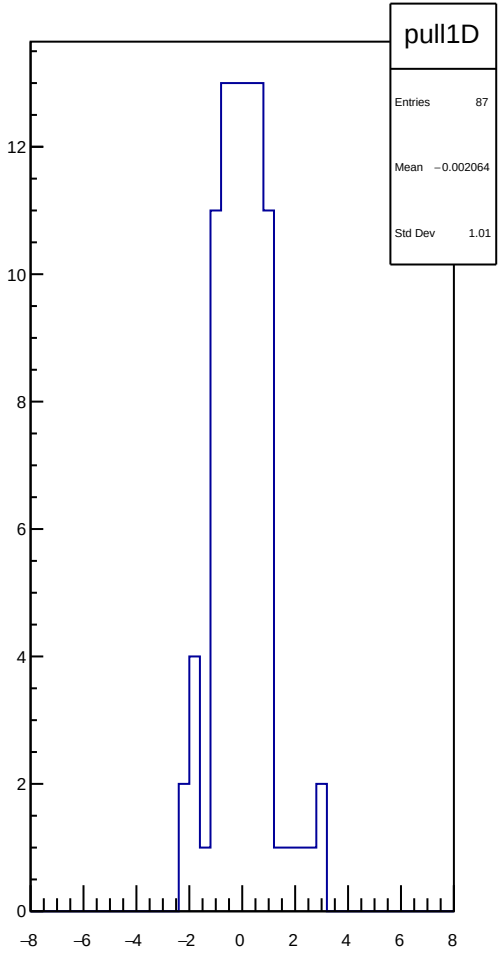

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.028e+05 / 86
p0 1.771e−10 ± 1.809e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

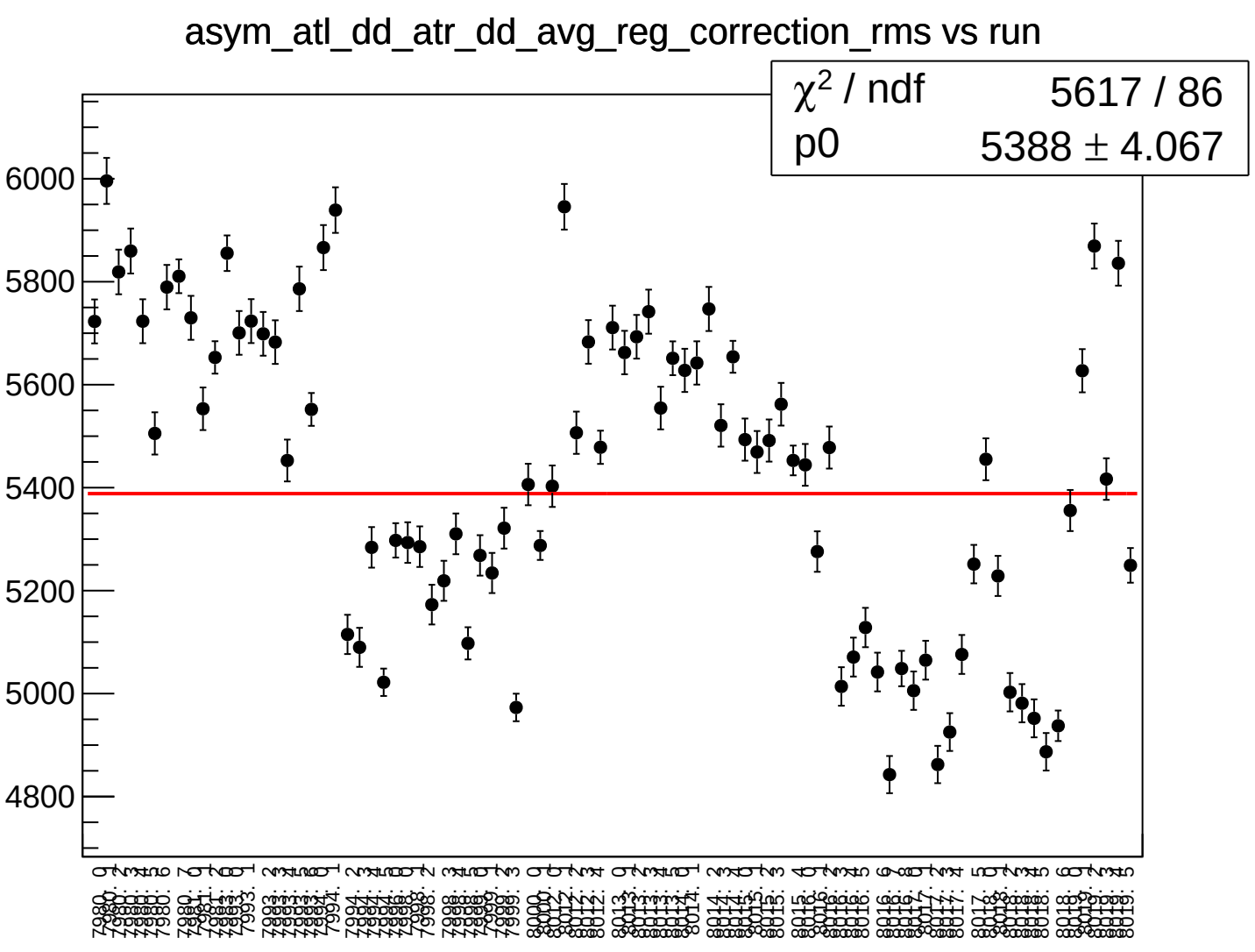

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.67 / 86
p0 −3315 ± 1353
pull
Entries 87
Mean 501.6
Std Dev 0

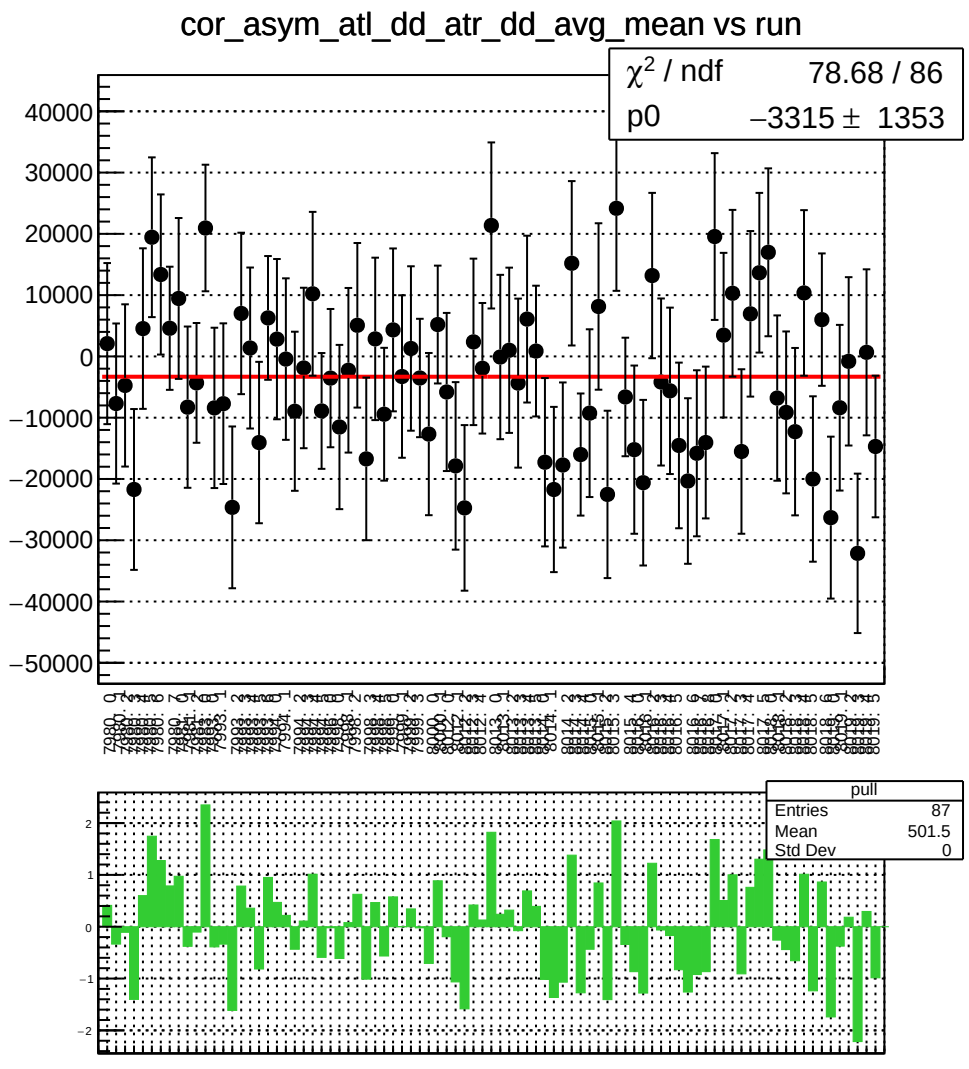

pull1D
Entries 87
Mean −0.008459
Std Dev 0.9509

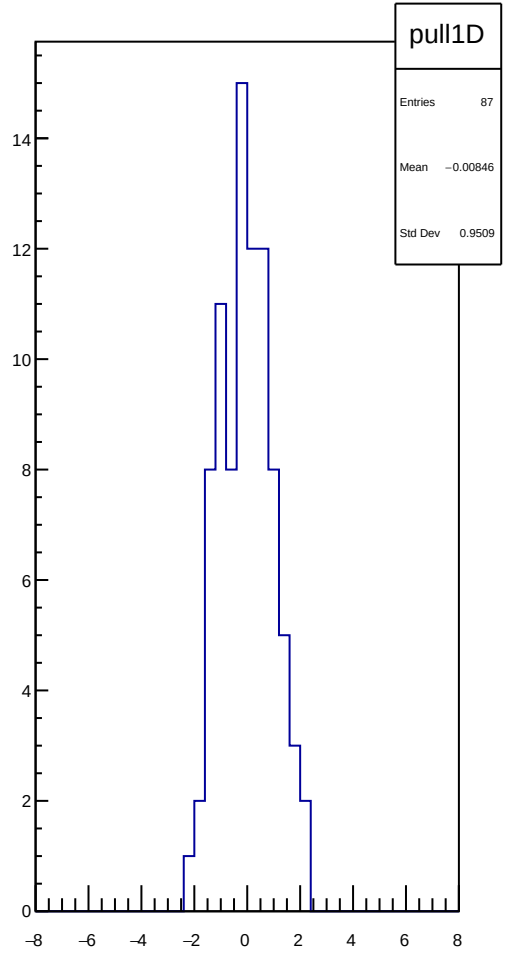

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 459.3 / 86
p0 1269 ± 0.9564
1320
1300
1280
1260
1240
1220

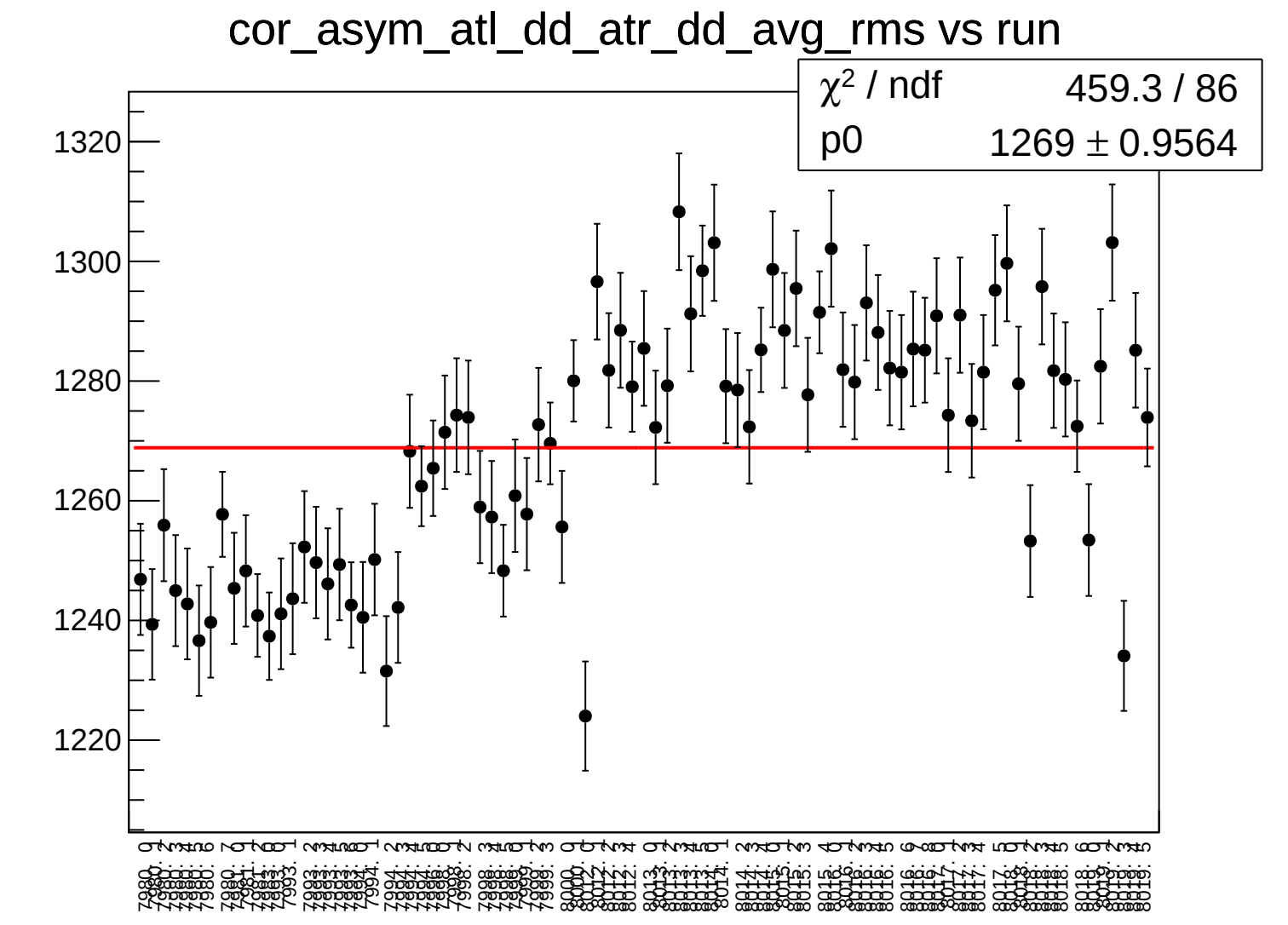

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.8 / 86
p0 1.141e+04 ± 5752
pull
Entries 87
Mean −42.87
Std Dev 86.36

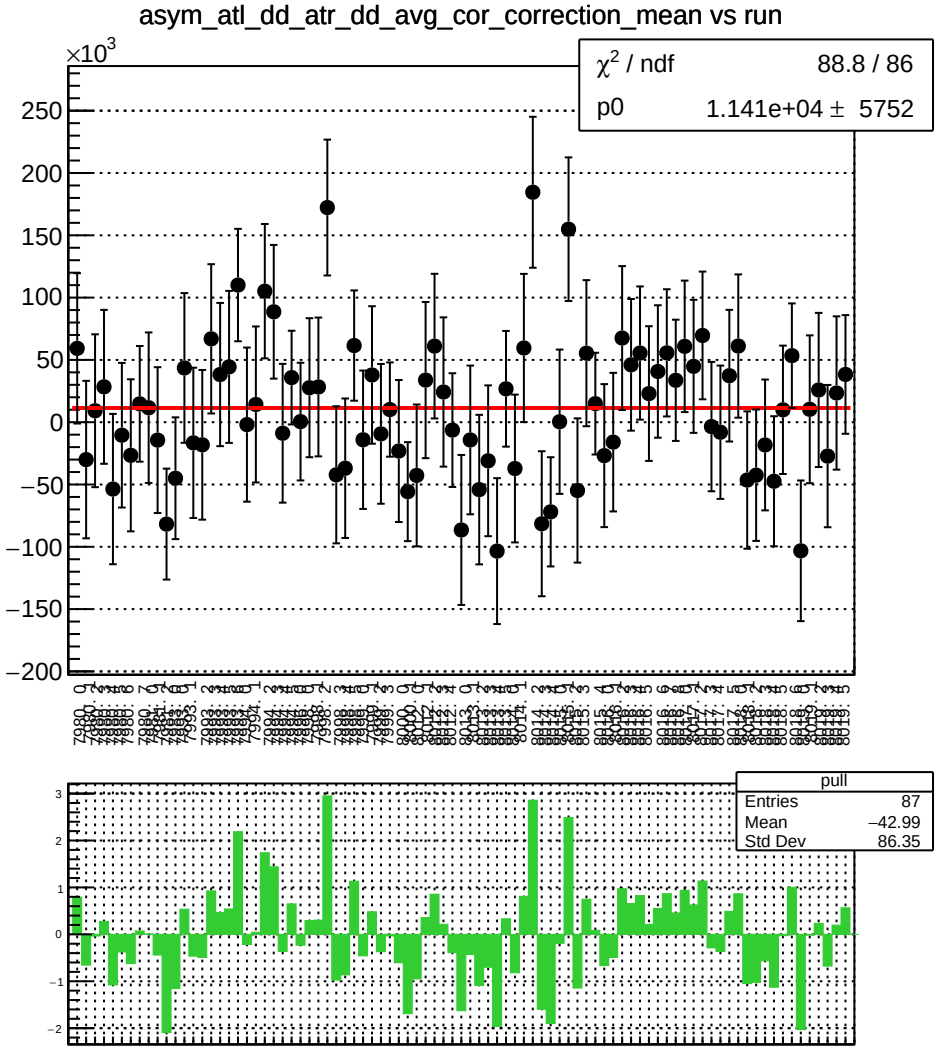

pull1D
Entries 87
Mean −0.002064
Std Dev 1.01

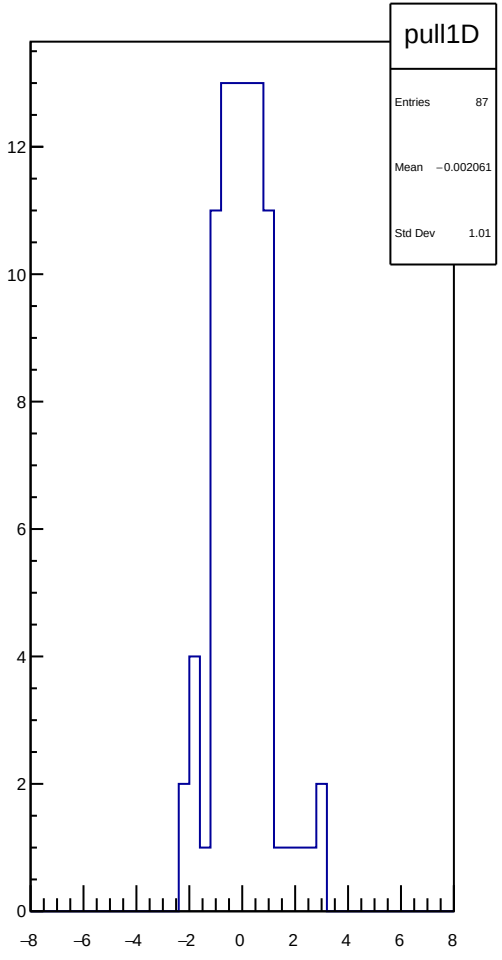

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 5617 / 86
p0 5388 ± 4.067
6000
5800
5600
5400
5200
5000
4800

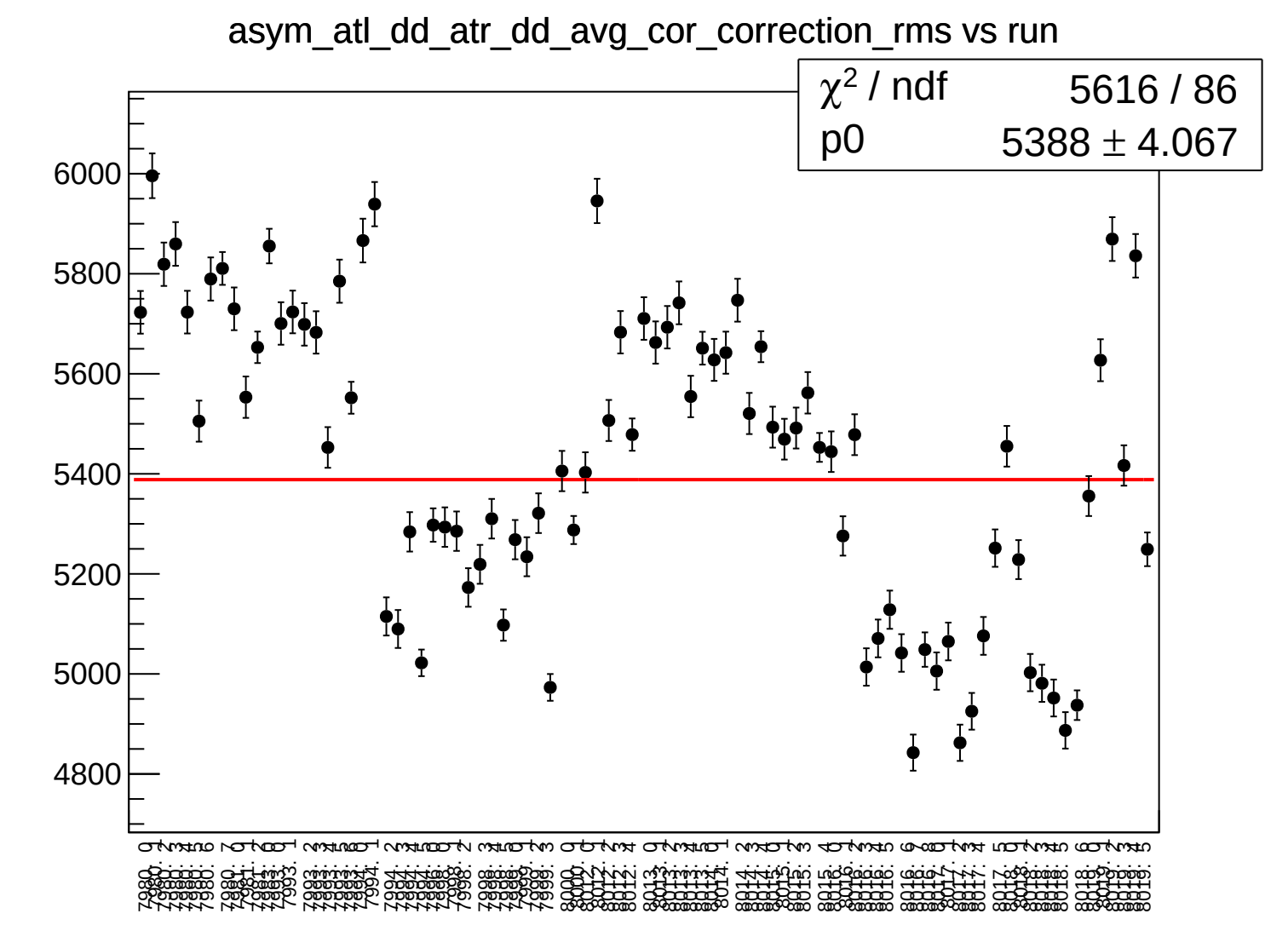

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.68 / 86
p0 −3315 ± 1353
pull
Entries 87
Mean 501.5
Std Dev 0

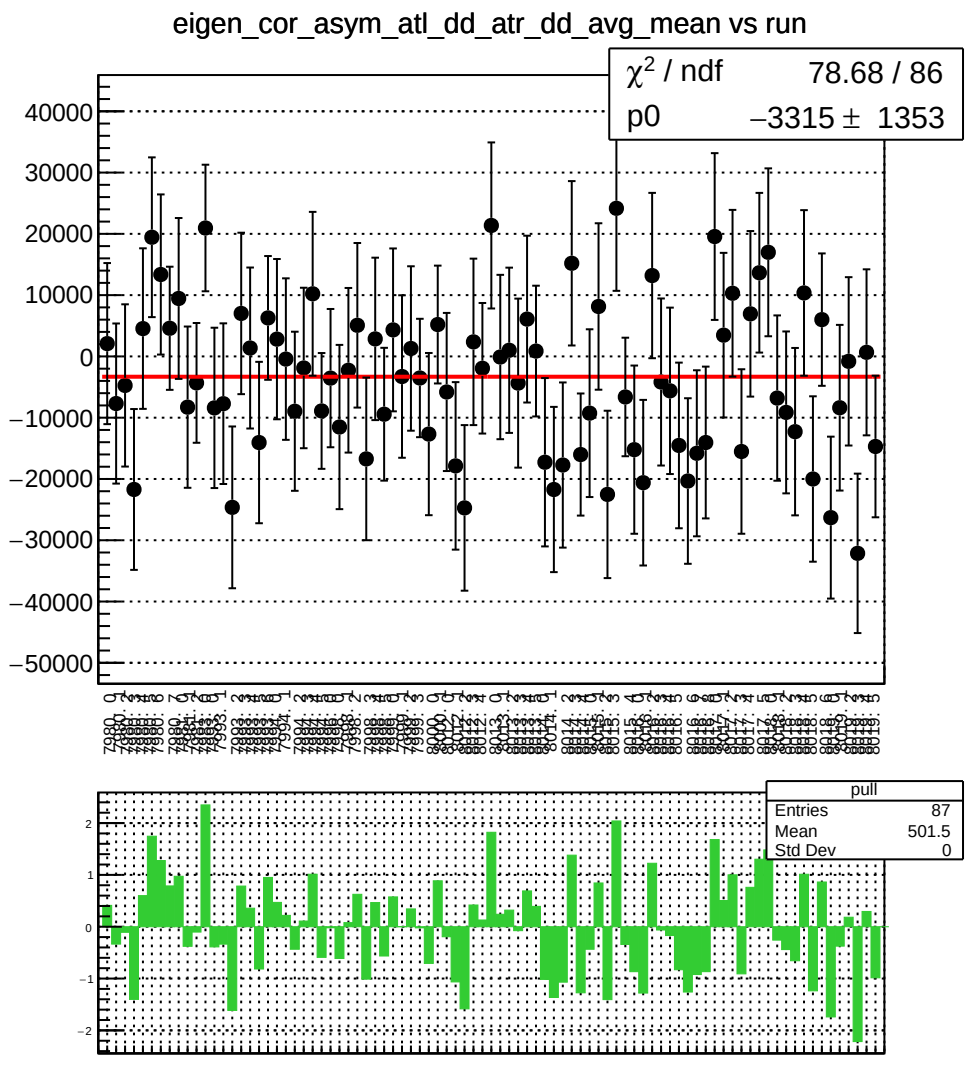

pull1D
Entries 87
Mean −0.00846
Std Dev 0.9509

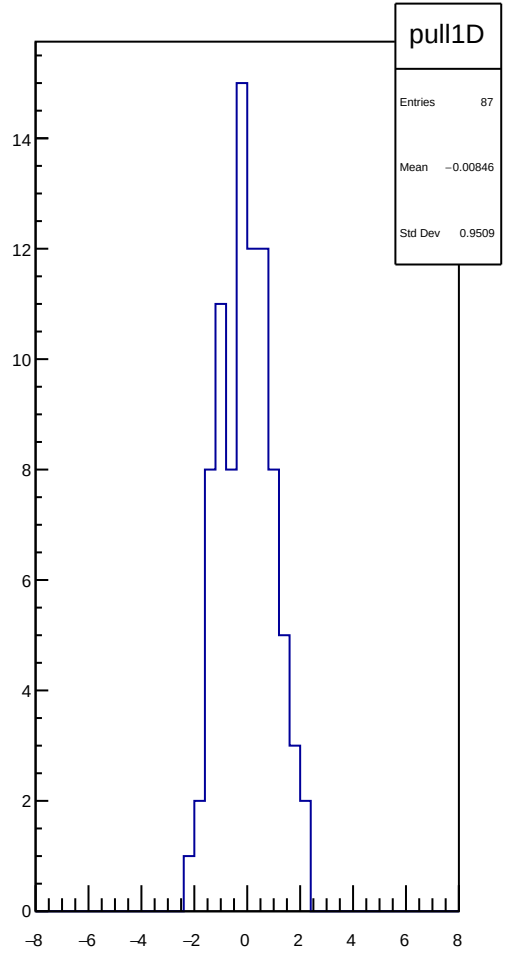

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 459.3 / 86
p0 1269 ± 0.9564
1320
1300
1280
1260
1240
1220

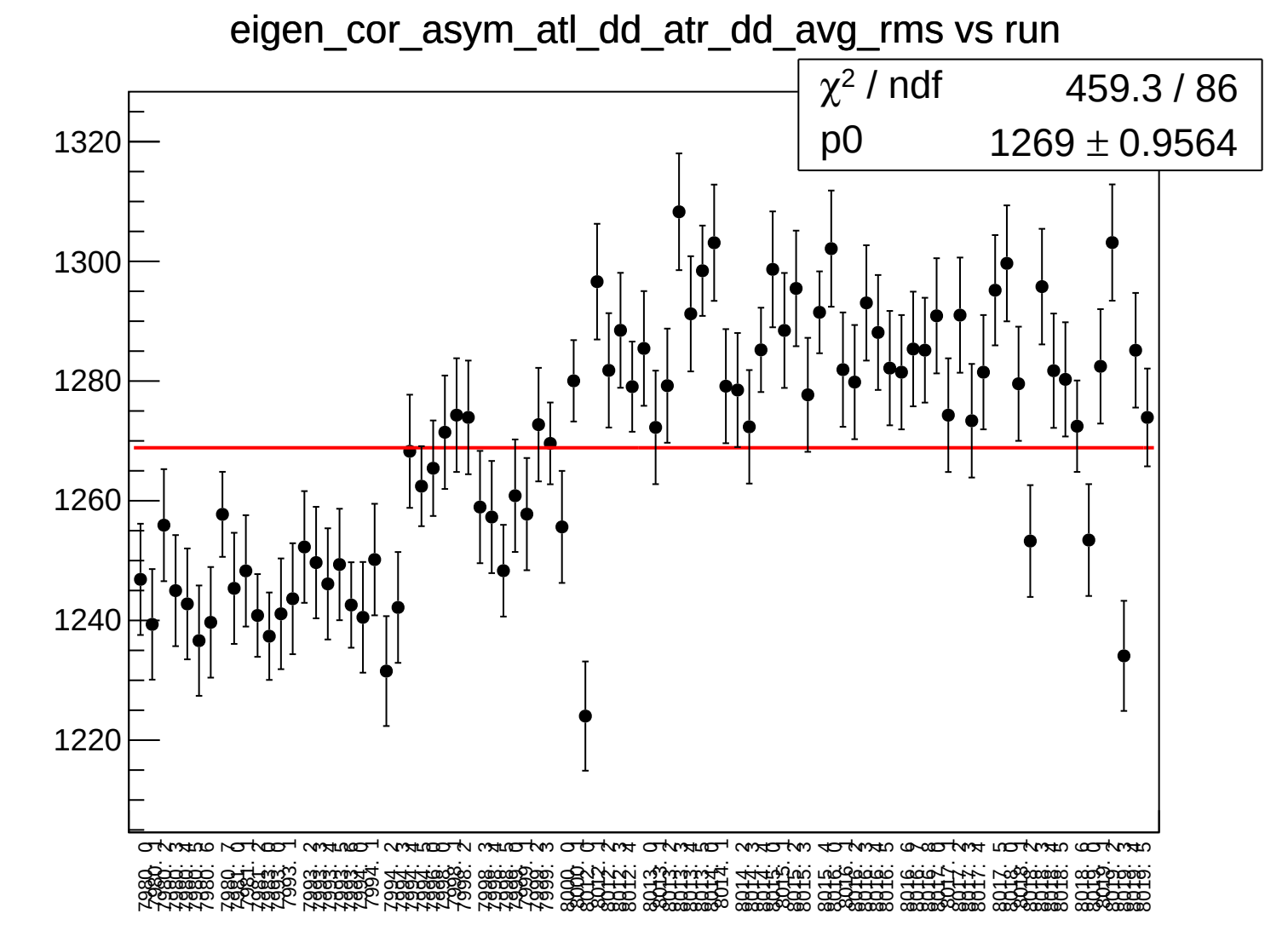

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 88.8 / 86
p0 1.141e+04 ± 5752
pull
Entries 87
Mean −42.99
Std Dev 86.35

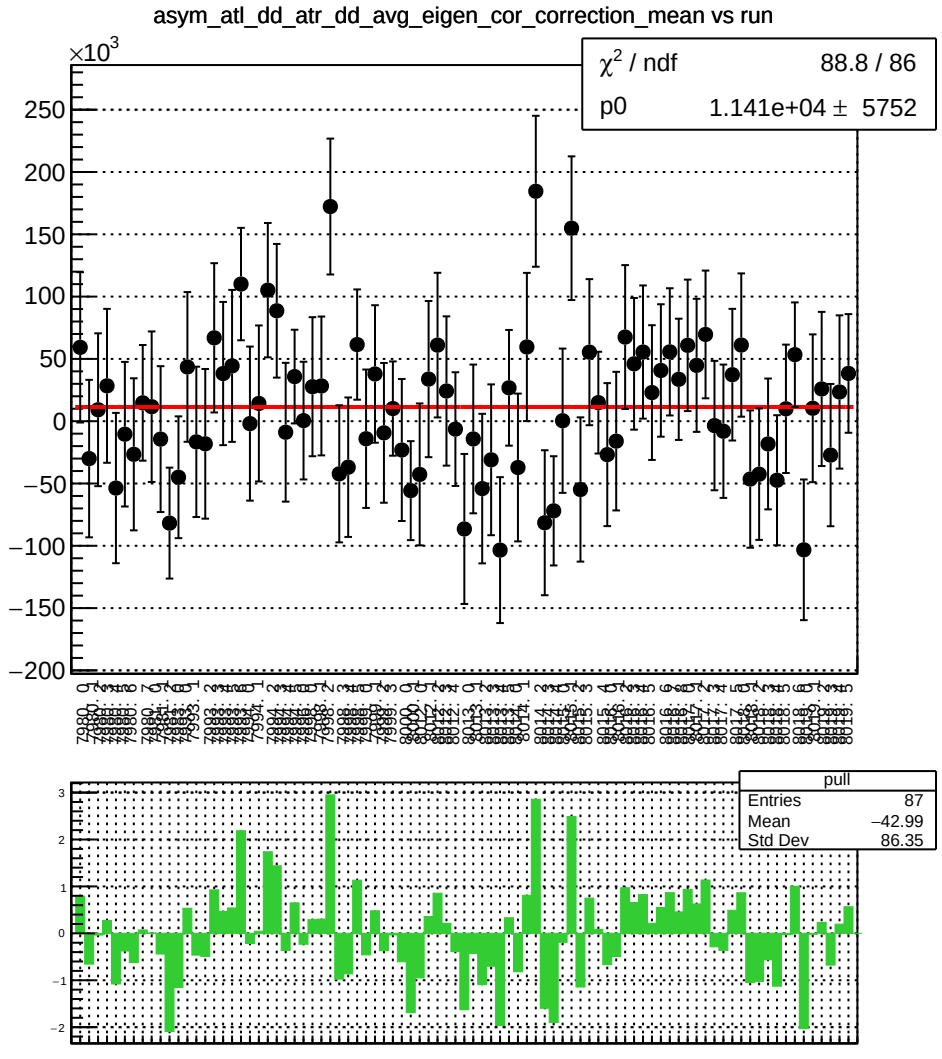

pull1D
Entries 87
Mean −0.002061
Std Dev 1.01

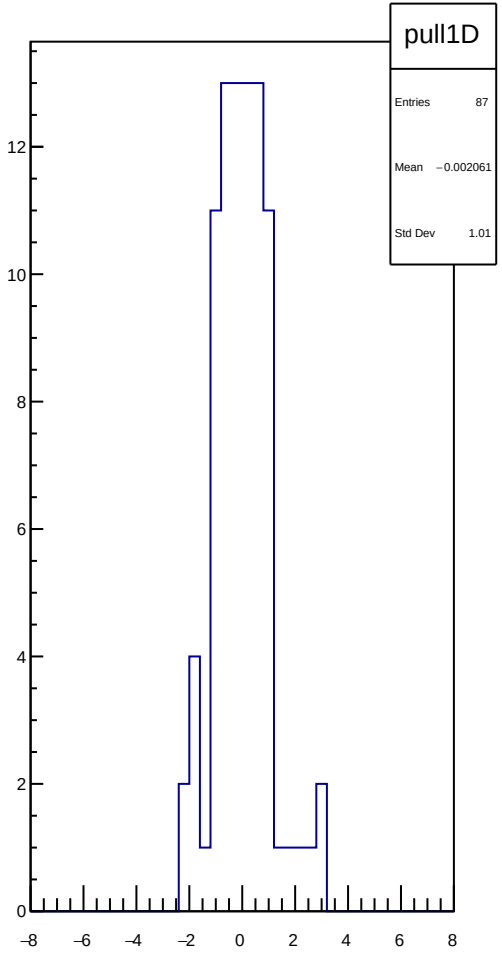

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 5616 / 86
p0 5388 ± 4.067
6000
5800
5600
5400
5200
5000
4800

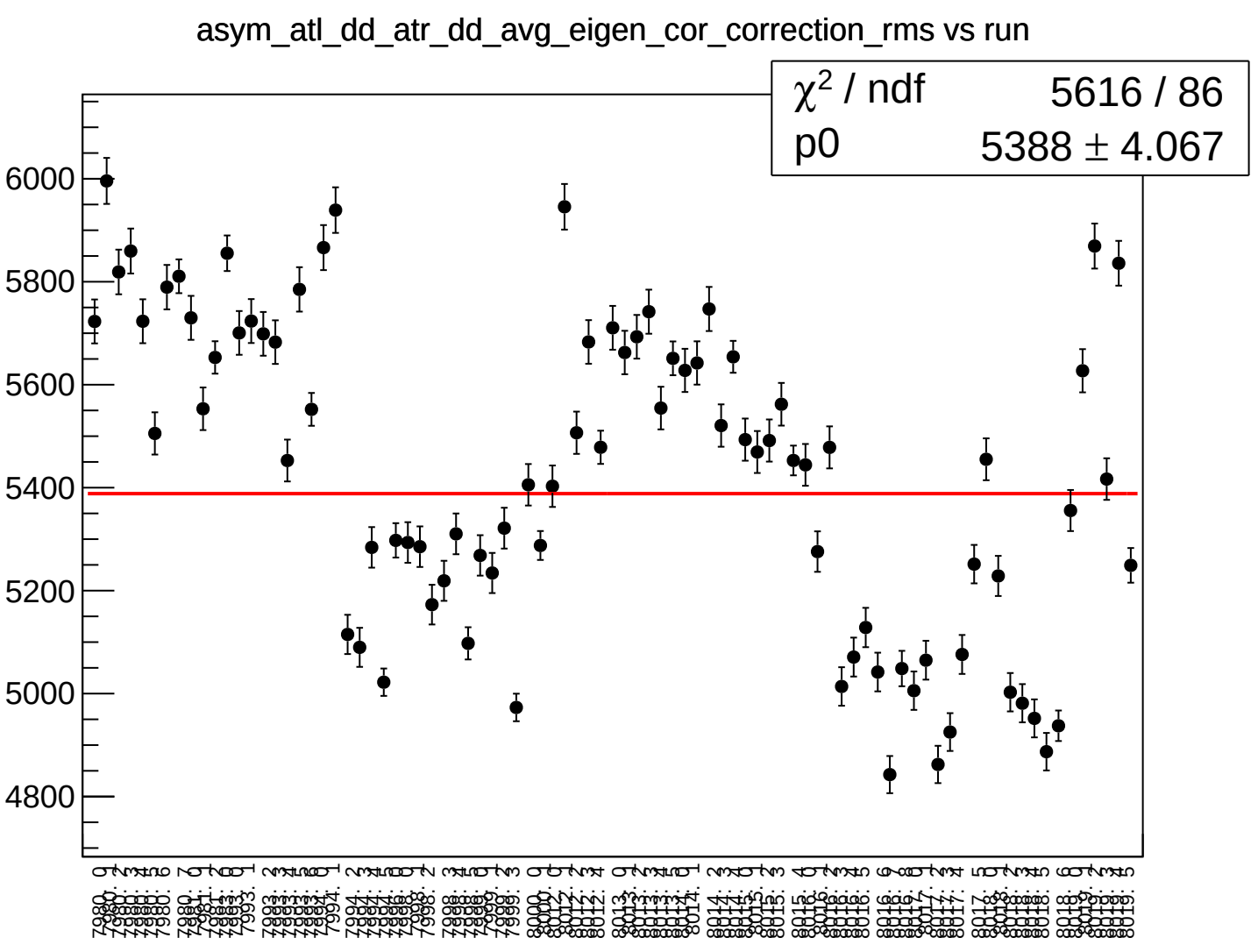

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.68 / 86
p0 −3315 ± 1353
pull
Entries 87
Mean 501.5
Std Dev 0

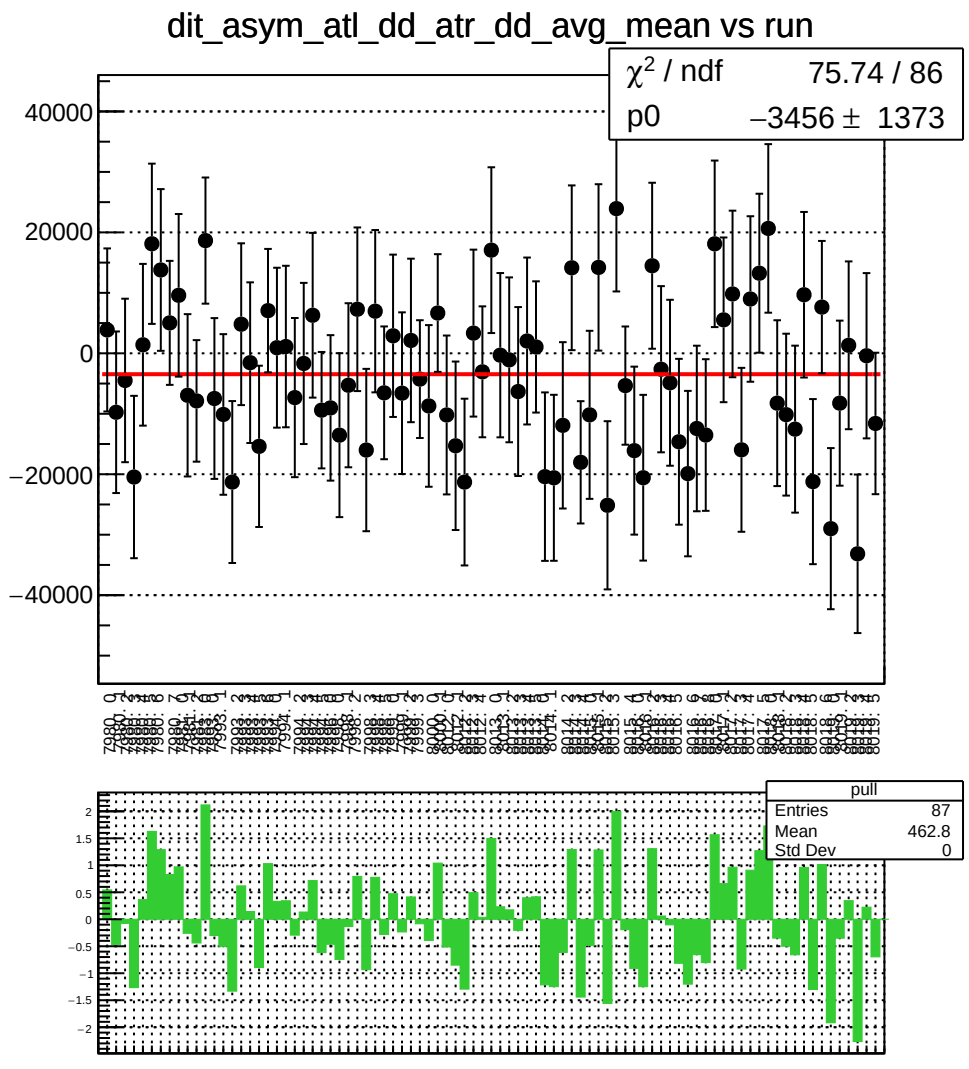

pull1D
Entries 87
Mean −0.00846
Std Dev 0.9509

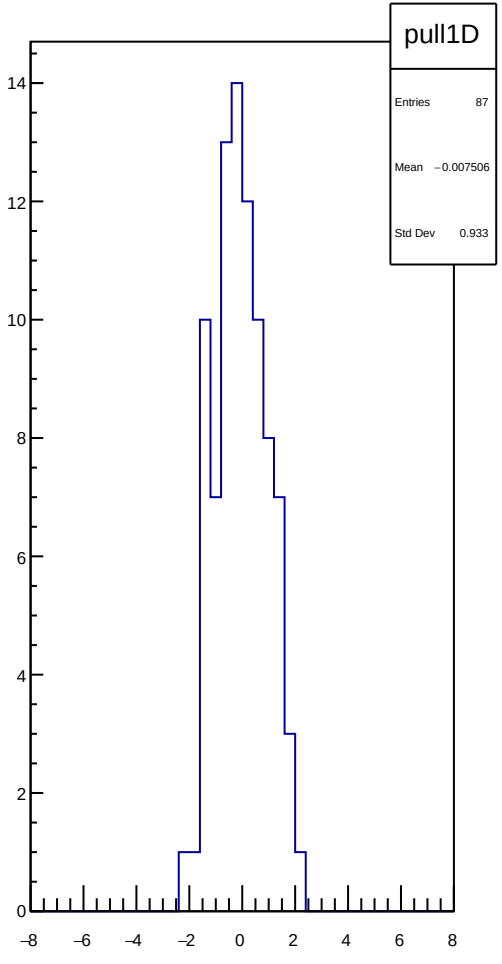

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 459.3 / 86
p0 1269 ± 0.9564
1320
1300
1280
1260
1240
1220

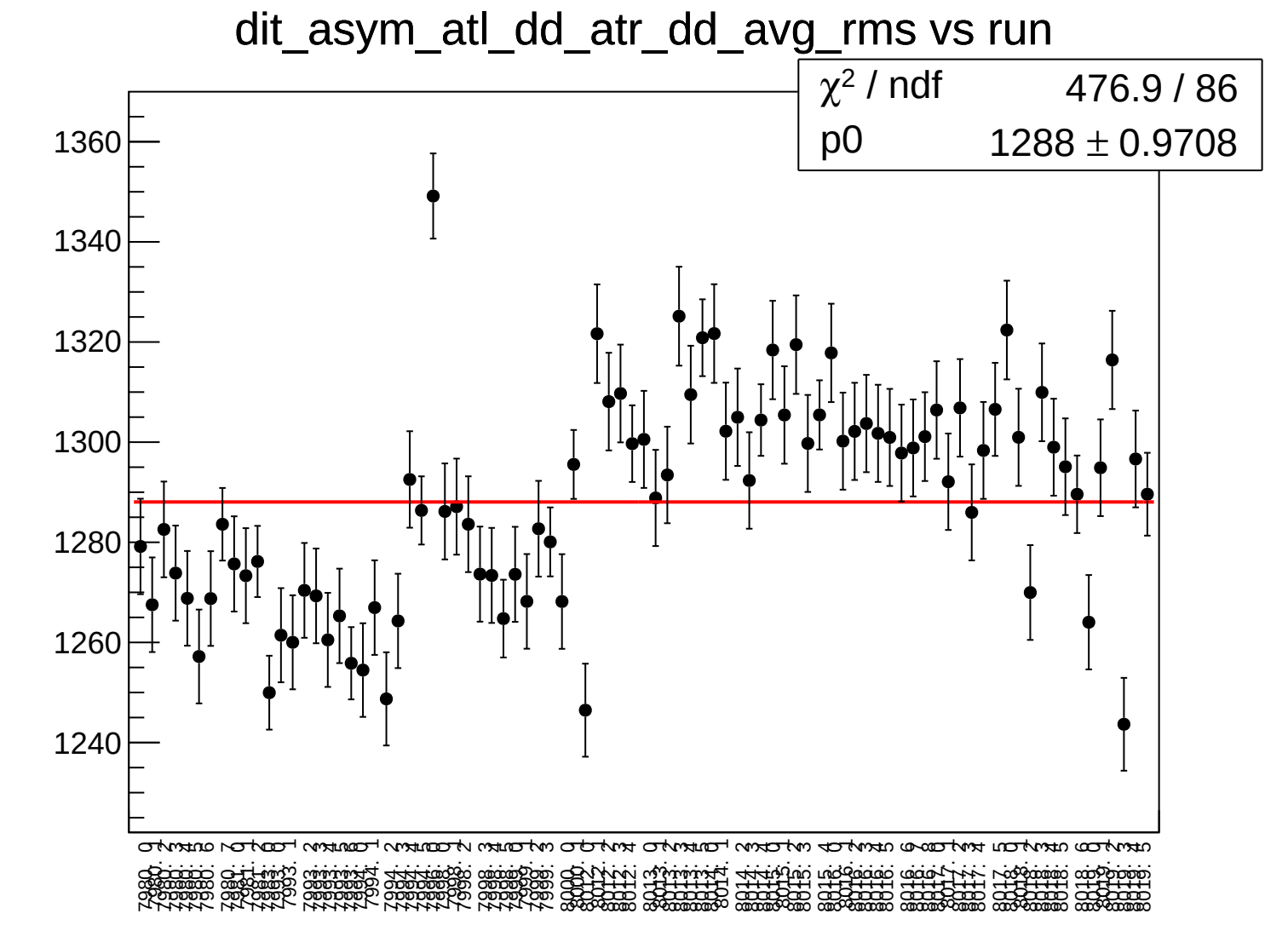

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.8 / 86
p0 1.141e+04 ± 5752
pull
Entries 87
Mean −42.99
Std Dev 86.35

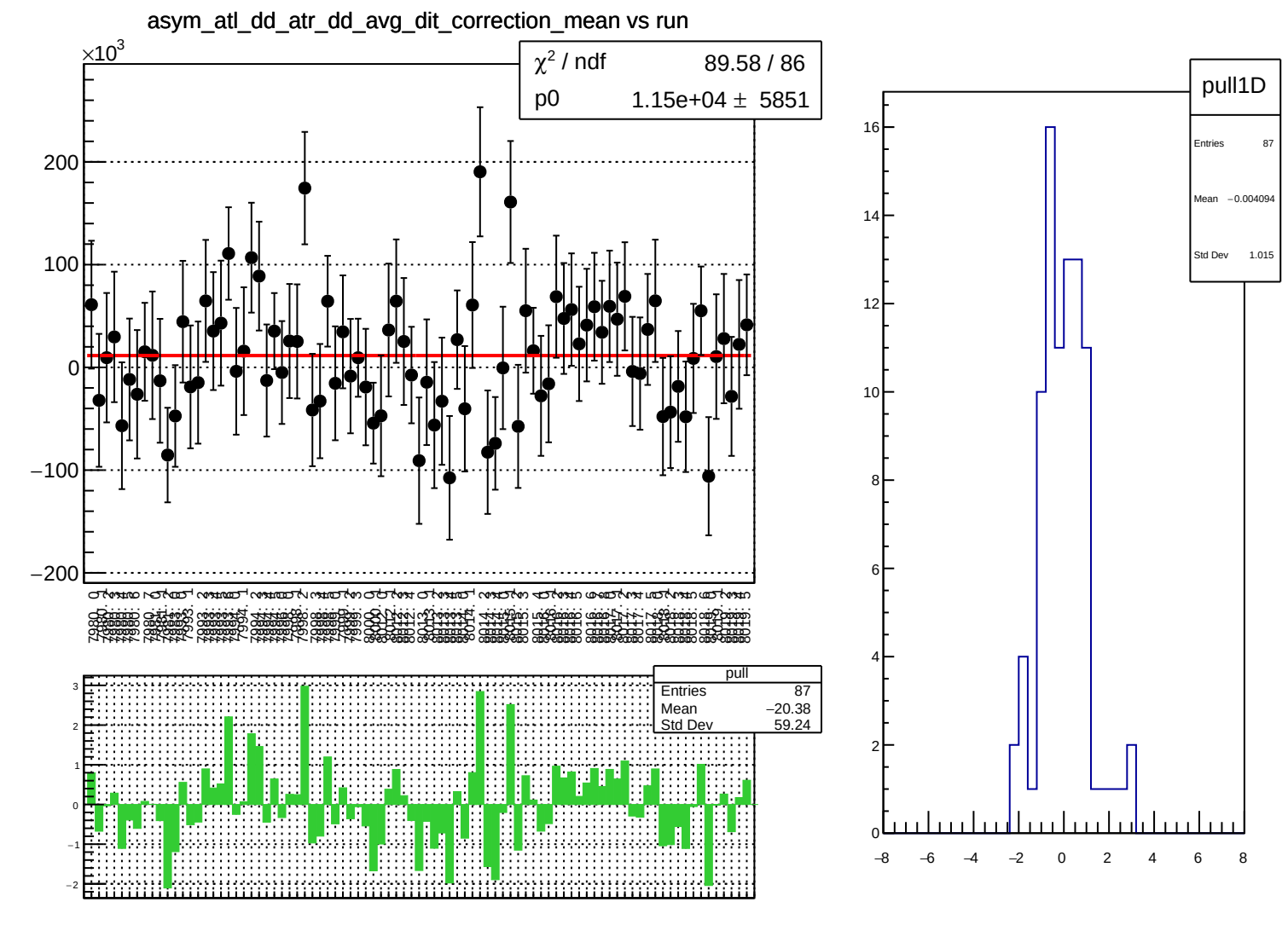

pull1D
Entries 87
Mean −0.002061
Std Dev 1.01

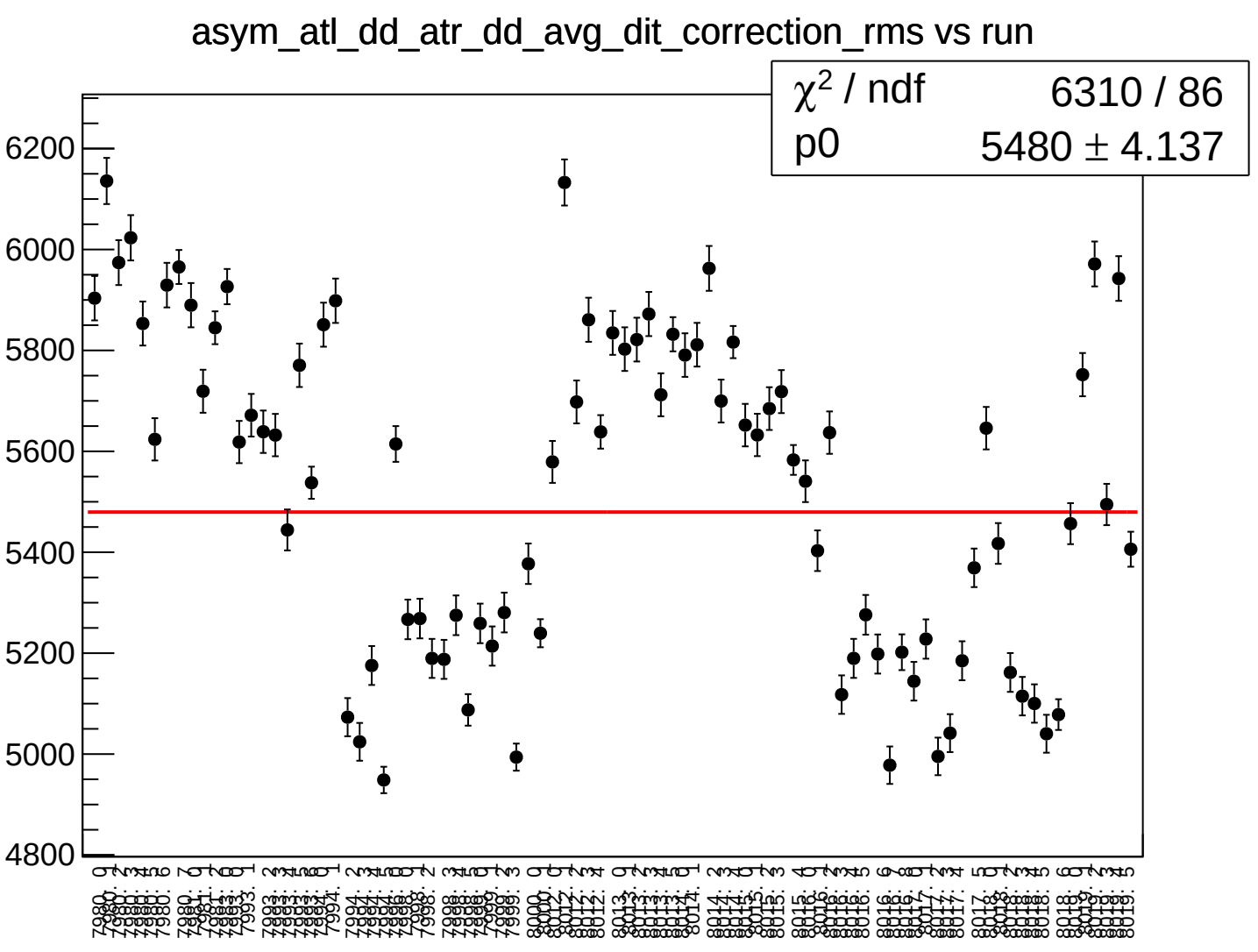

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5616 / 86
p0 5388 ± 4.067
6000
5800
5600
5400
5200
5000
4800

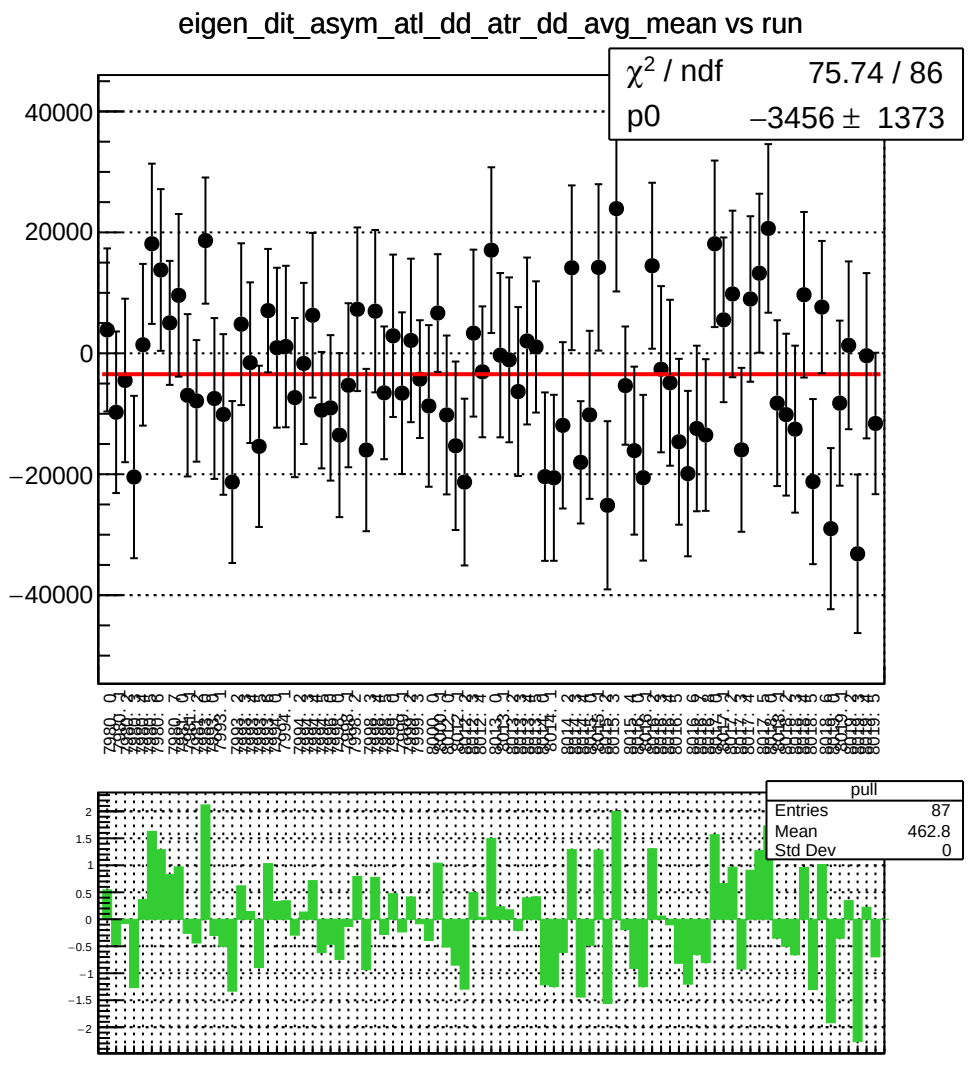

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 75.74 / 86
p0 −3456 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 462.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

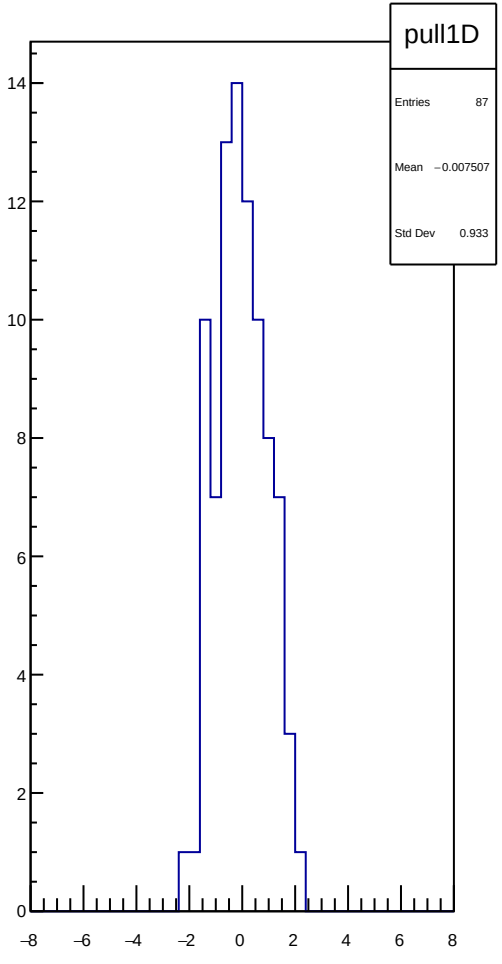

pull1D
Entries 87
Mean −0.007506
Std Dev 0.933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

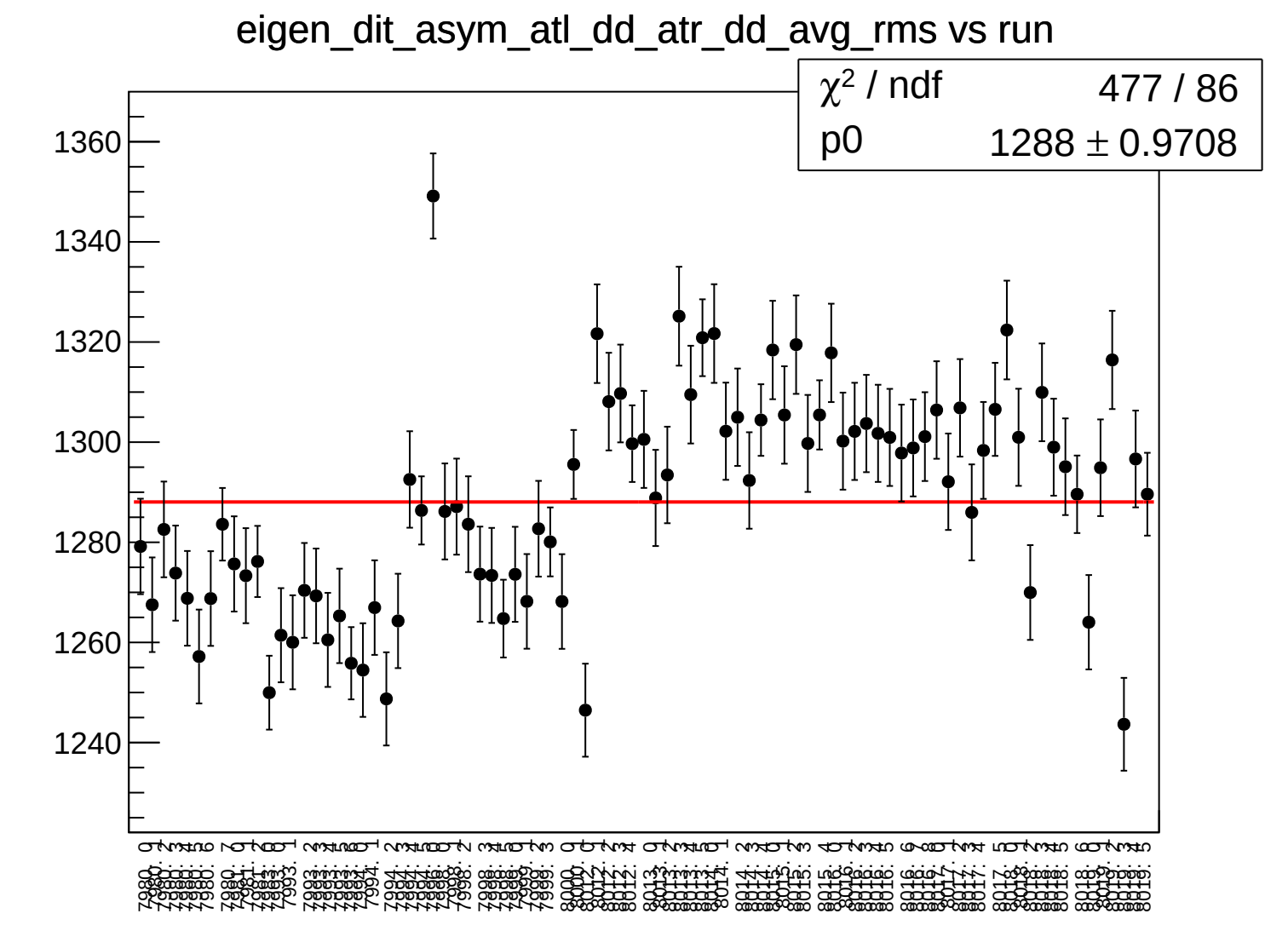

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 476.9 / 86
p0 1288 ± 0.9708
1360
1340
1320
1300
1280
1260
1240

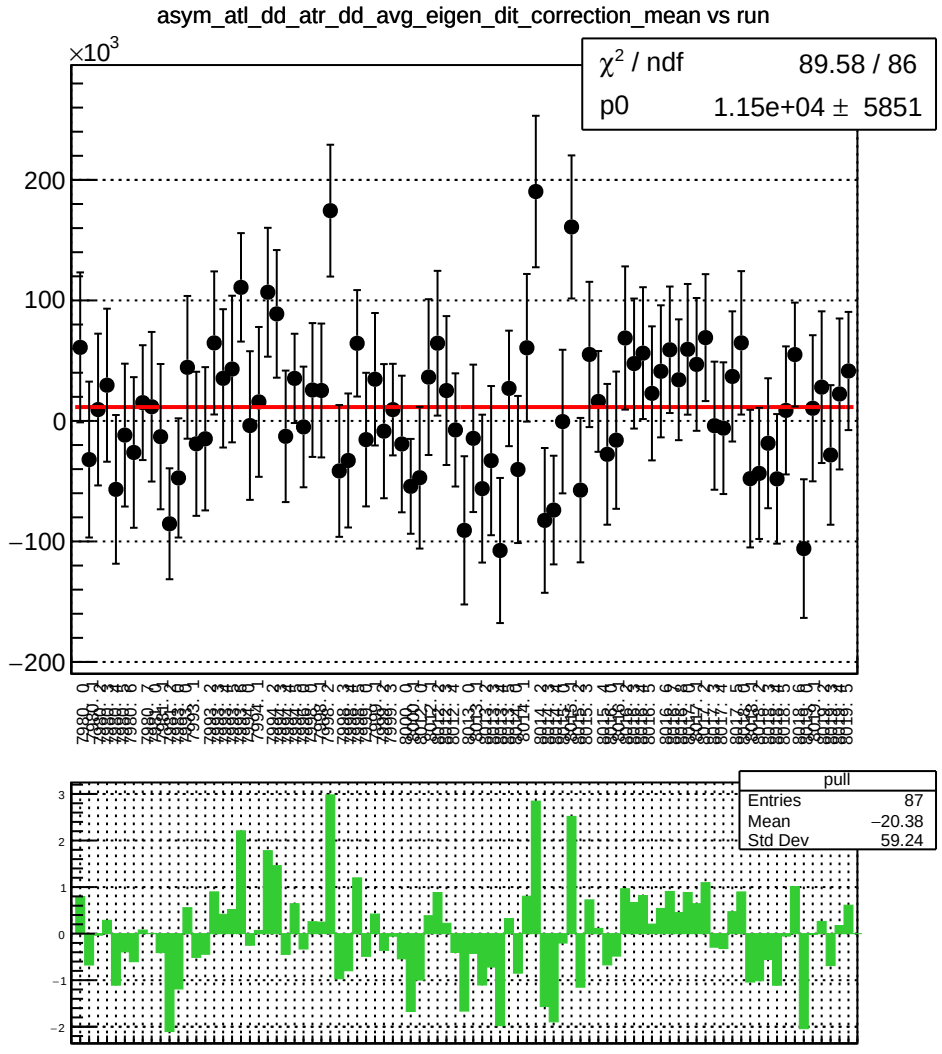

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.58 / 86
p0 1.15e+04 ± 5851
200
100
0
−100
−200
pull
Entries 87
Mean −20.38
Std Dev 59.24
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.004094
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

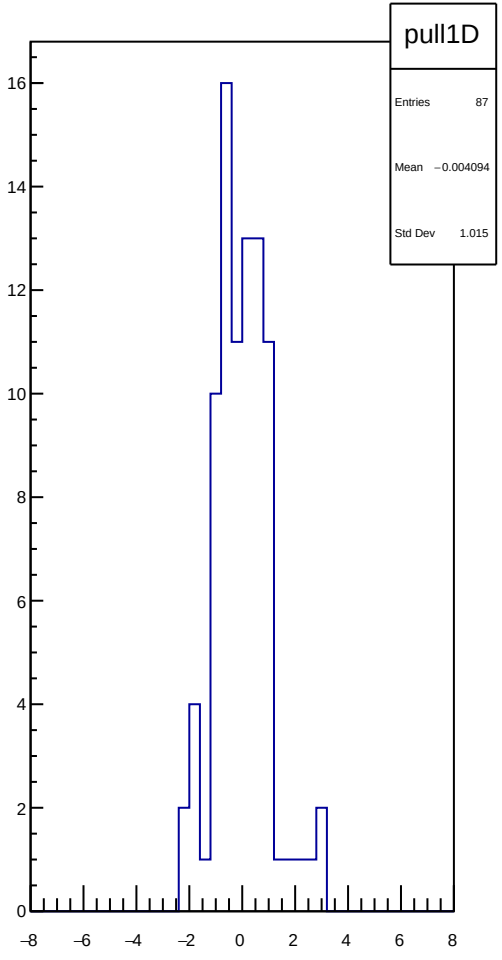

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 6310 / 86
p0 5480 ± 4.137
6200
6000
5800
5600
5400
5200
5000
4800

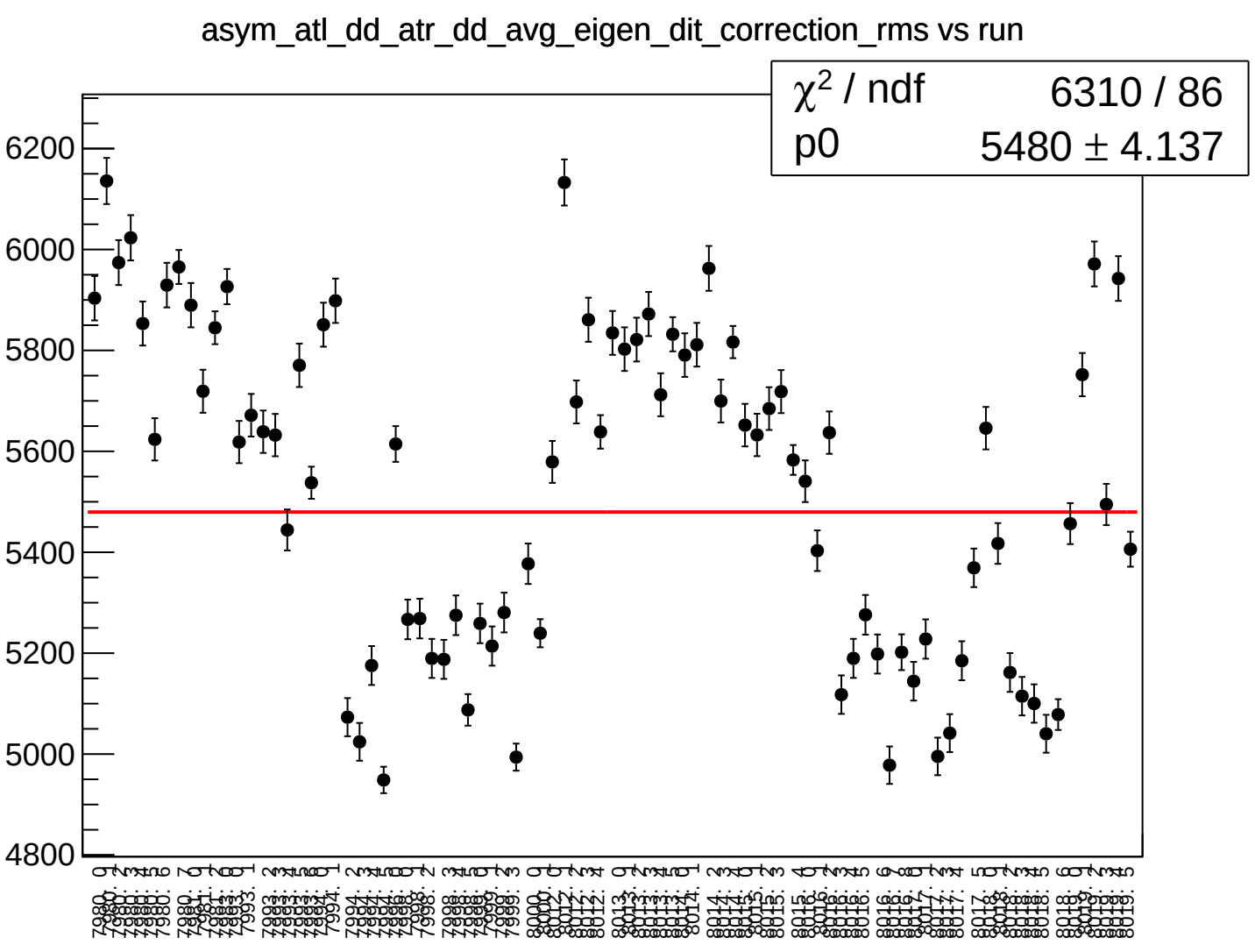

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 75.74 / 86
p0 −3456 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 462.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

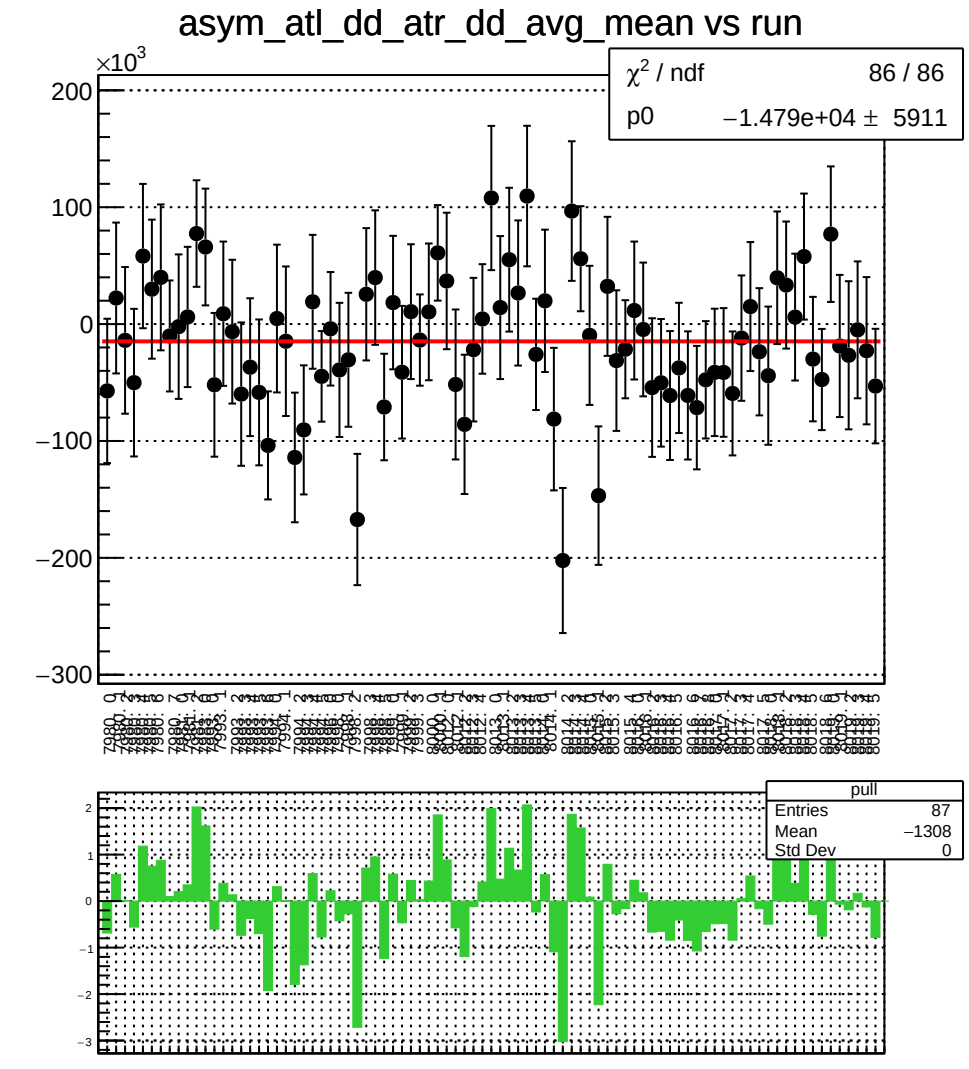

pull1D
Entries 87
Mean −0.007507
Std Dev 0.933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

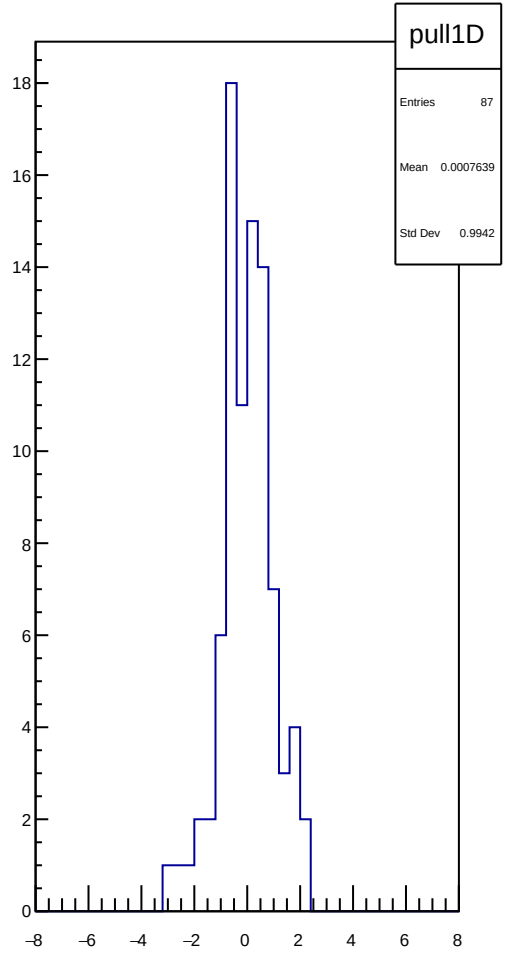

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 477 / 86
p0 1288 ± 0.9708
1360
1340
1320
1300
1280
1260
1240

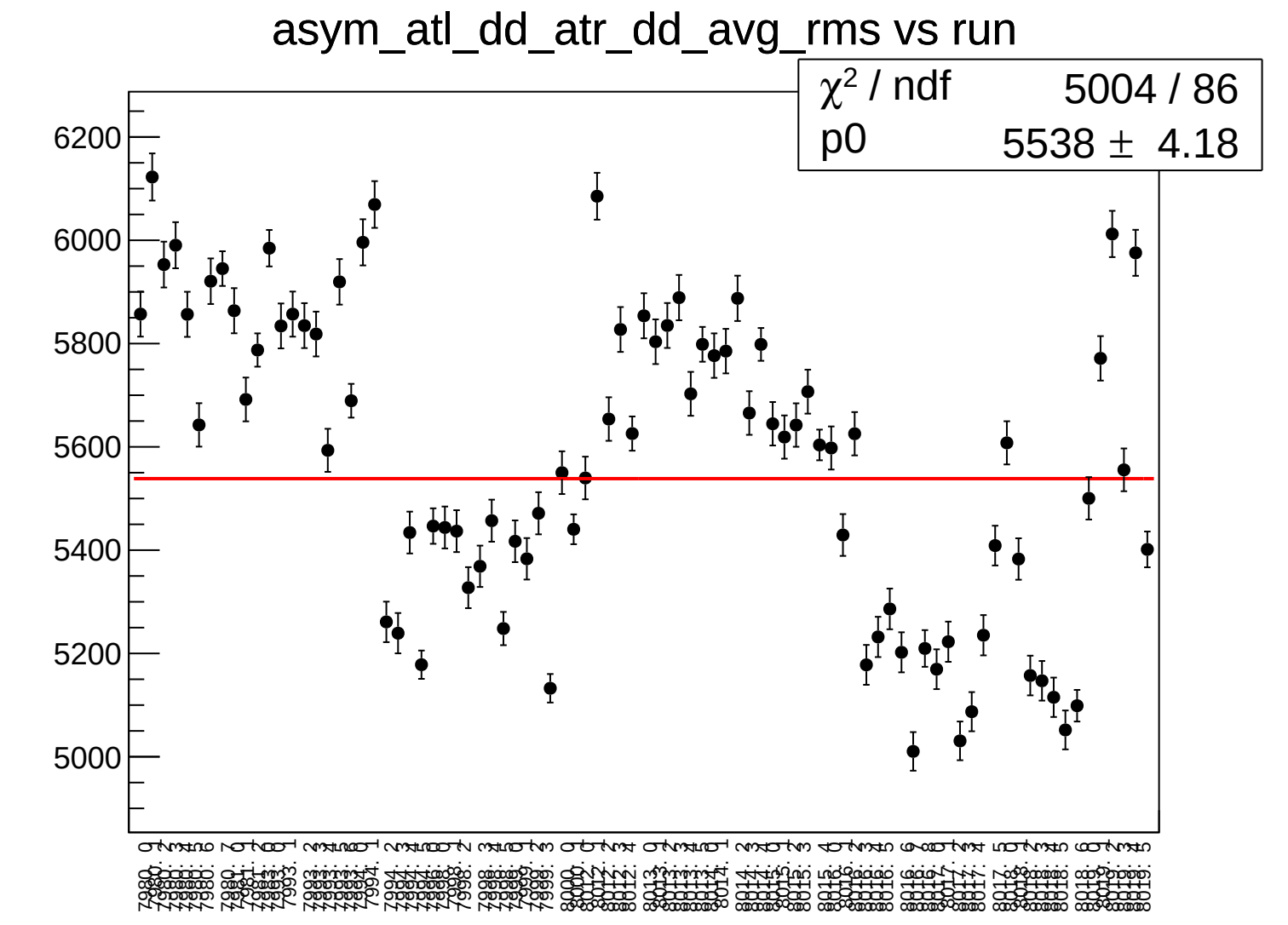

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.58 / 86
p0 1.15e+04 ± 5851
200
100
0
−100
−200
pull
Entries 87
Mean −20.38
Std Dev 59.24
3
2
1
0
−1
−2

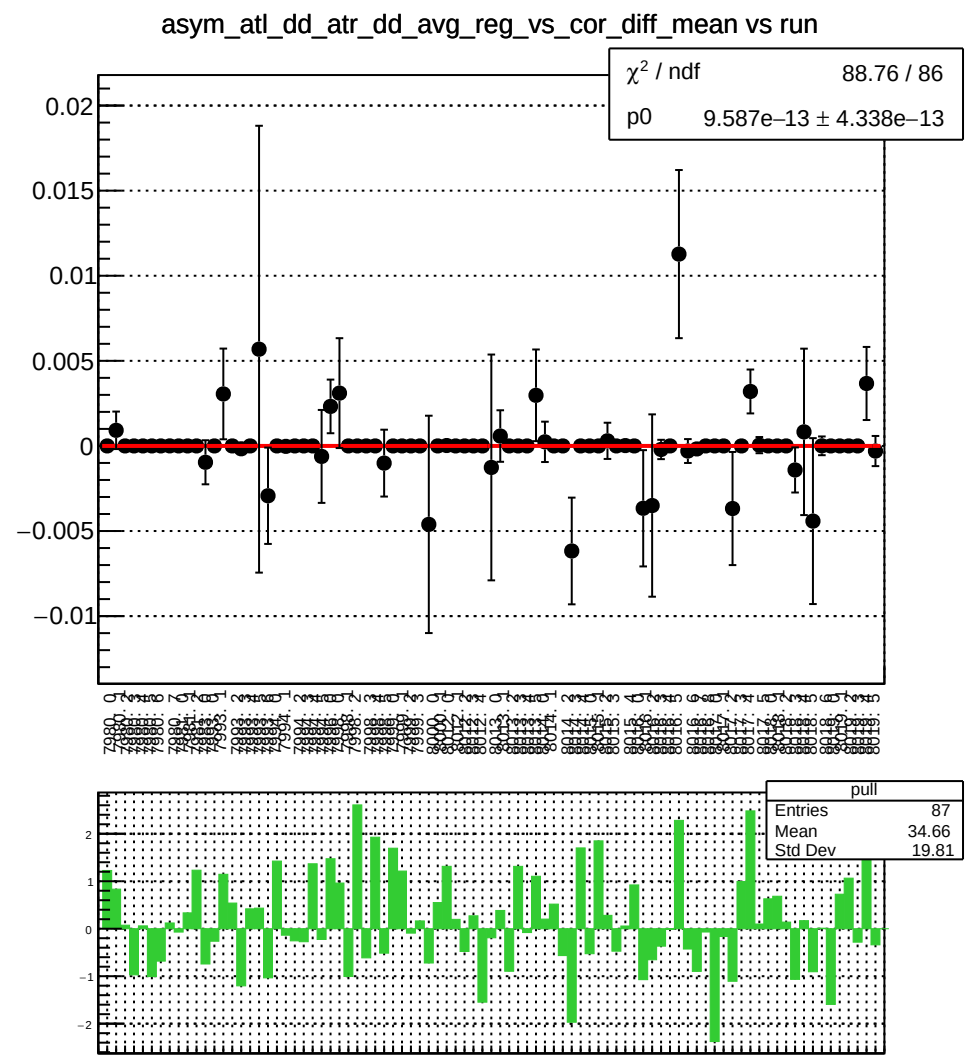

pull1D
Entries 87
Mean −0.004094
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

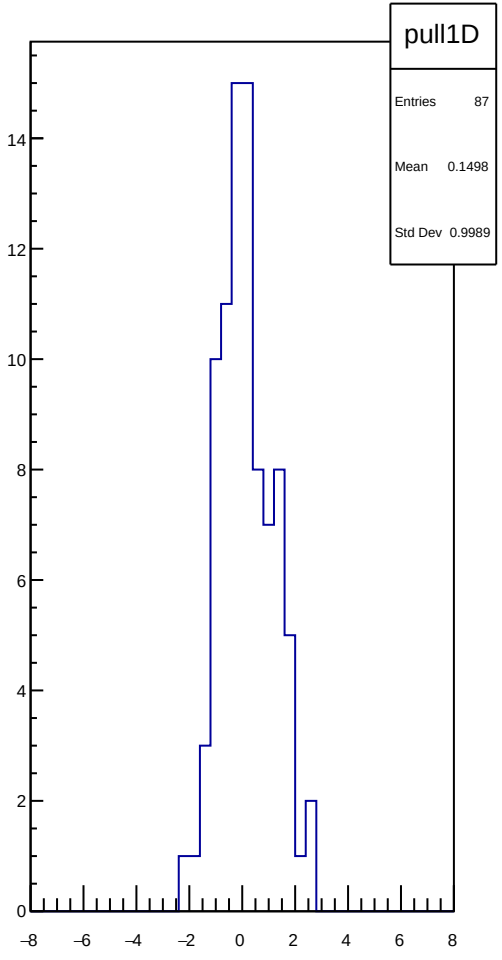

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6310 / 86
p0 5480 ± 4.137
6200
6000
5800
5600
5400
5200
5000
4800

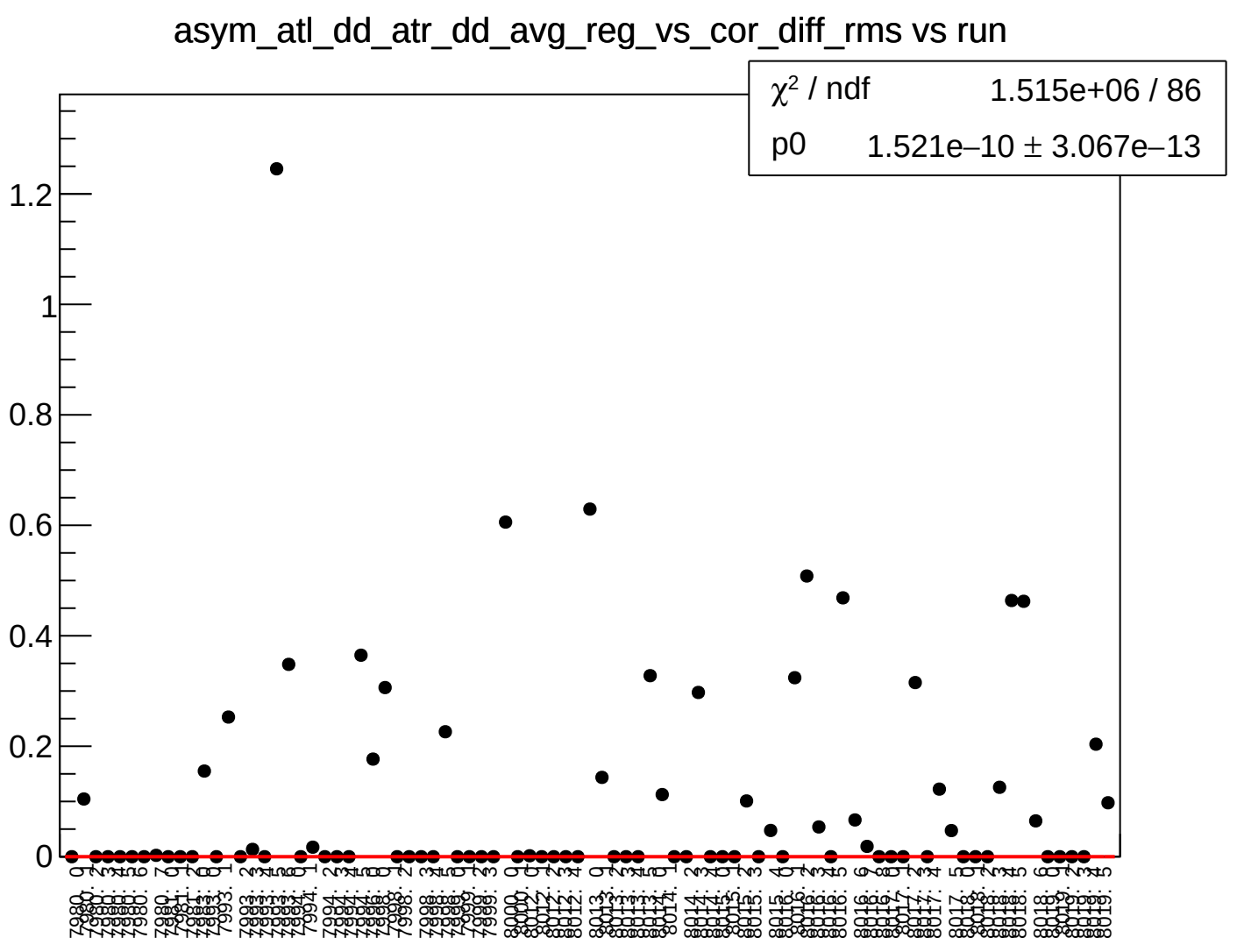

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 86 / 86
p0 −1.479e+04 ± 5911
pull
Entries 87
Mean −1308
Std Dev 0

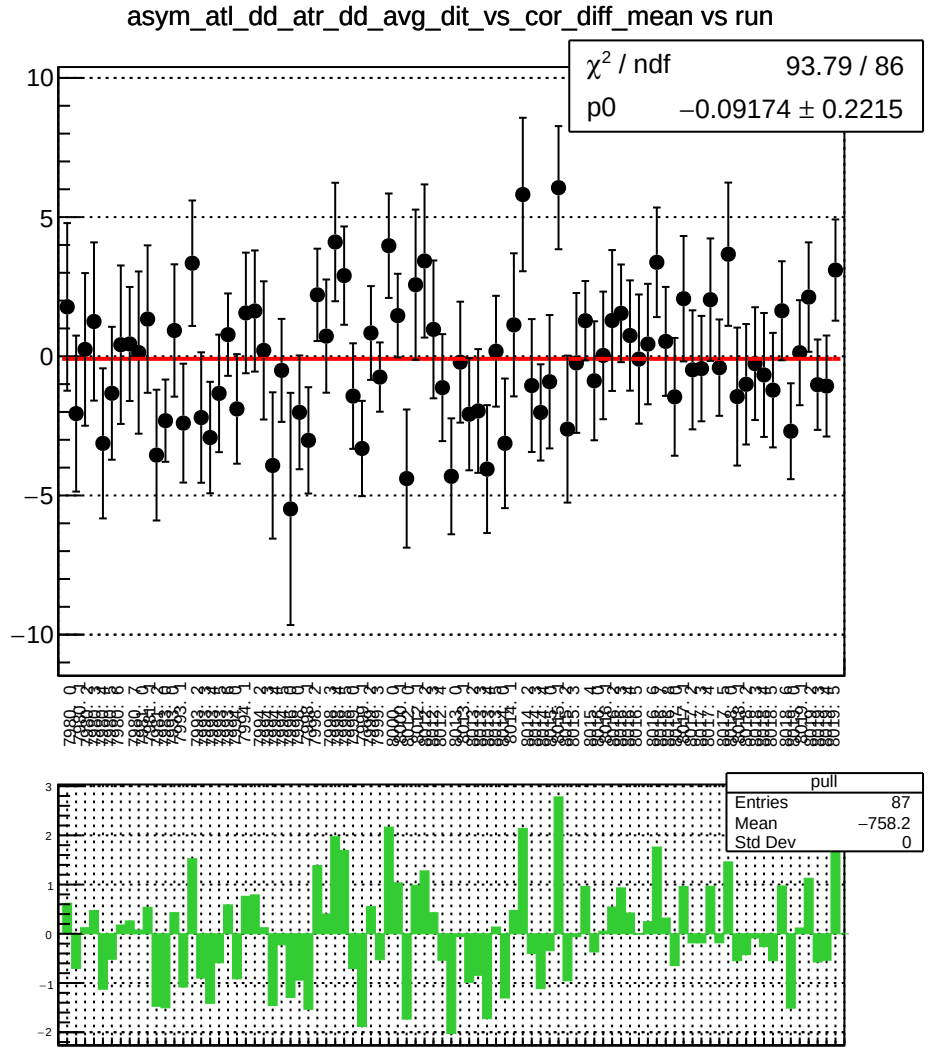

pull1D
Entries 87
Mean 0.0007639
Std Dev 0.9942

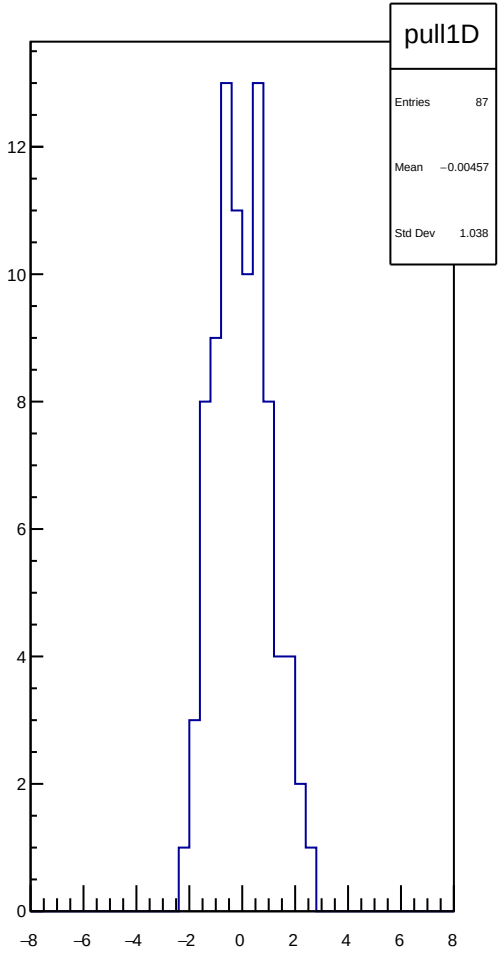

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 5004 / 86
p0 5538 ± 4.18
6200
6000
5800
5600
5400
5200
5000

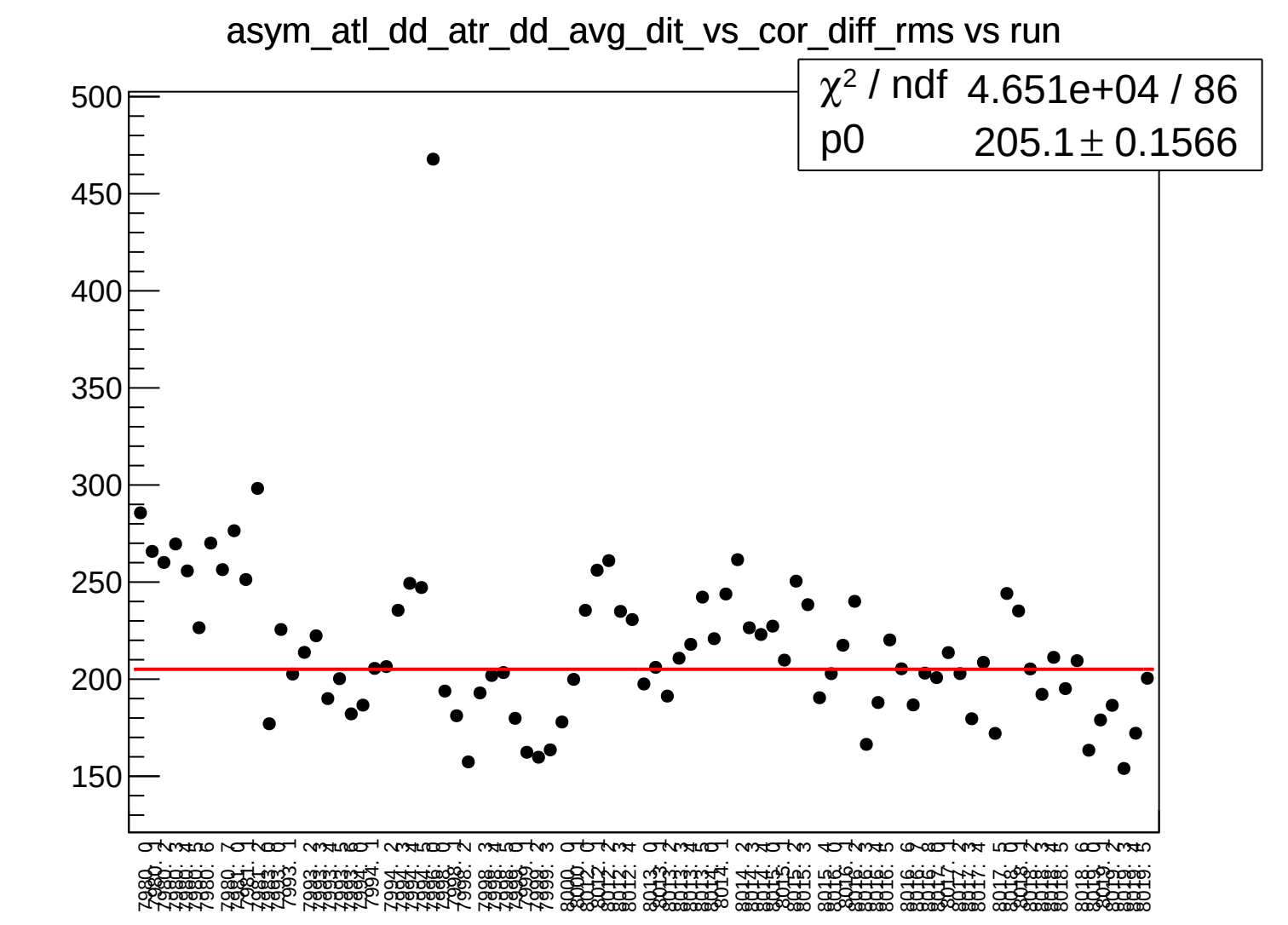

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.76 / 86
p0 9.587e−13 ± 4.338e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 34.66
Std Dev 19.81
2
1
0
−1
−2

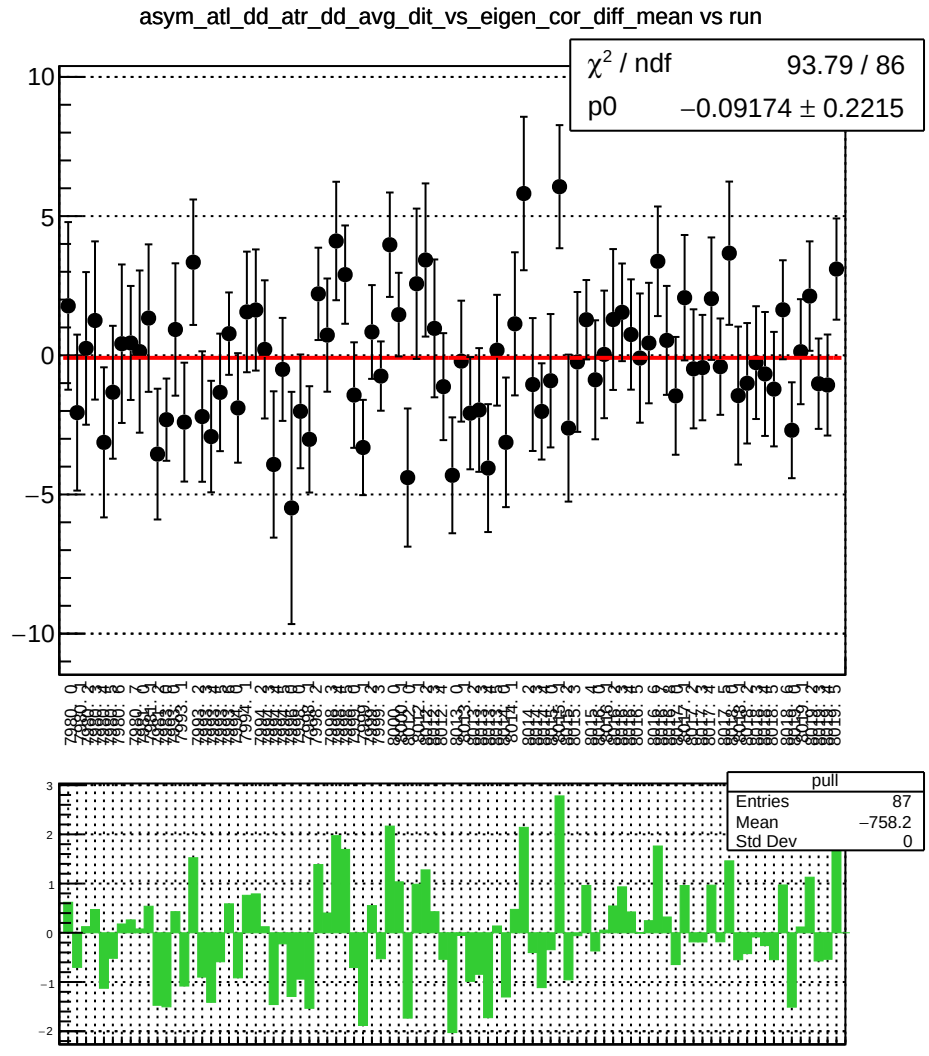

pull1D
Entries 87
Mean 0.1498
Std Dev 0.9989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

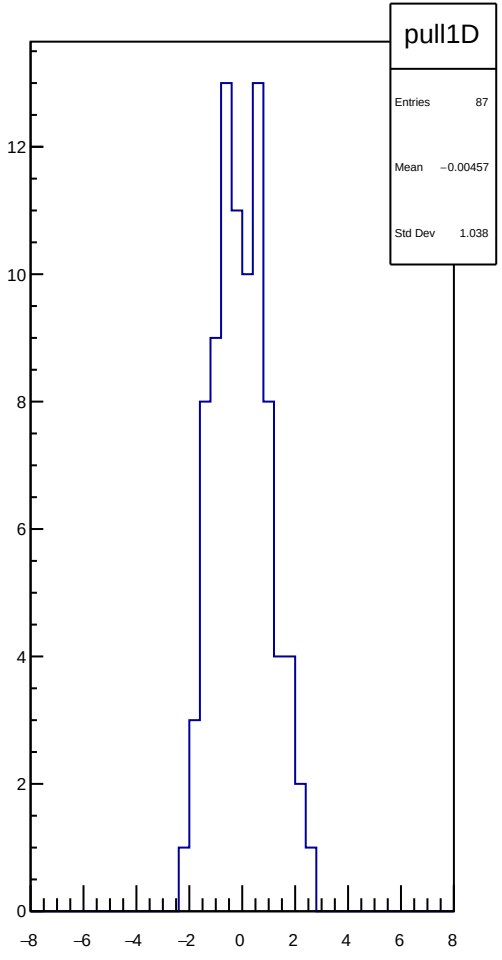

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.515e+06 / 86
p0 1.521e−10 ± 3.067e−13
1.2
1
0.8
0.6
0.4
0.2
0

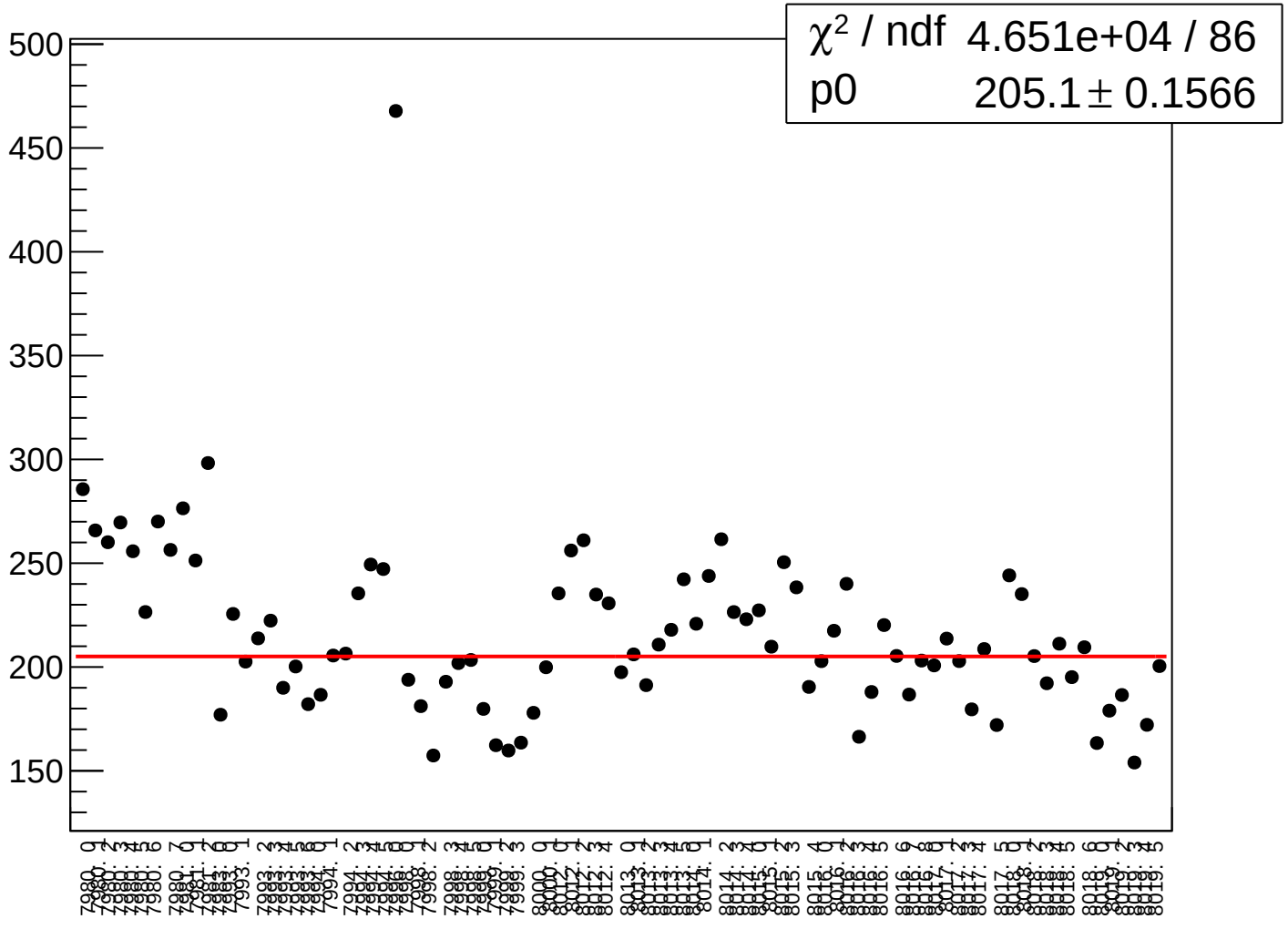

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.79 / 86
p0 −0.09174 ± 0.2215
pull
Entries 87
Mean −758.2
Std Dev 0

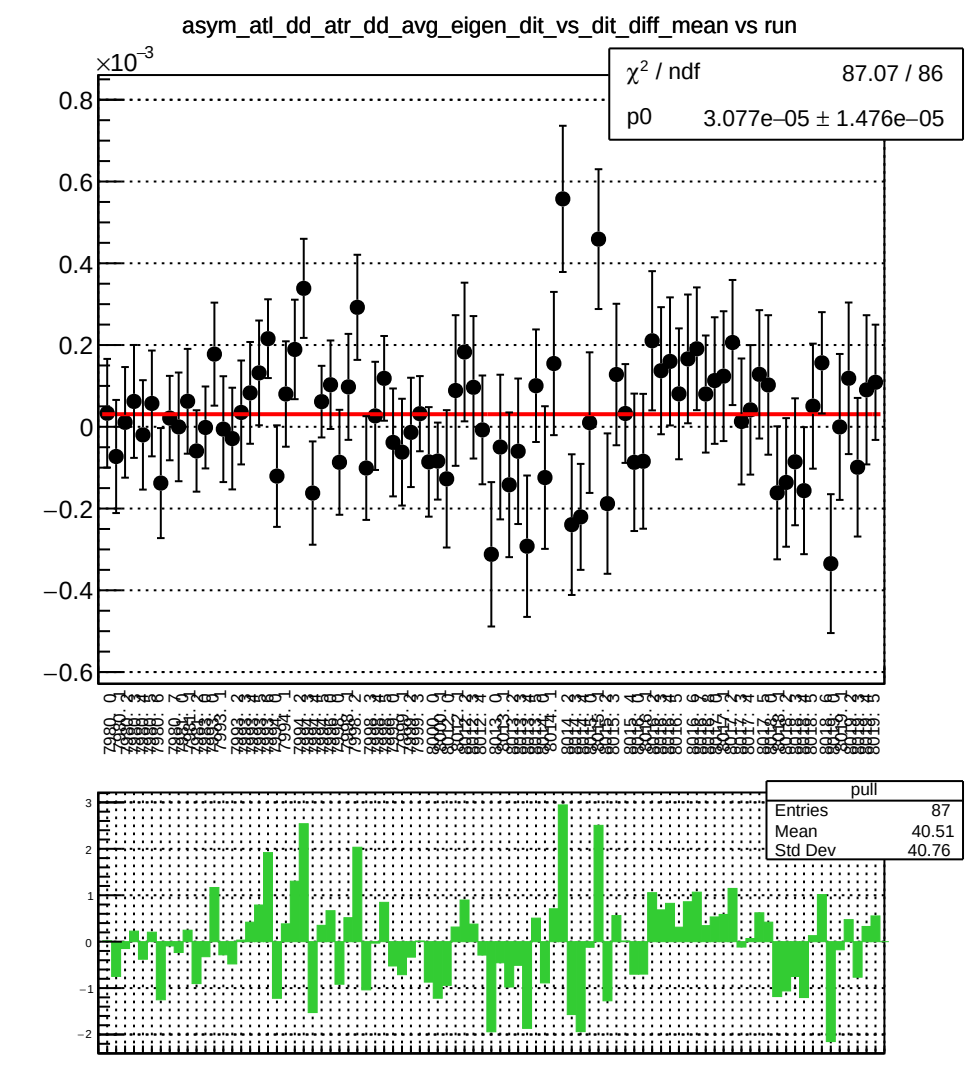

pull1D
Entries 87
Mean −0.00457
Std Dev 1.038

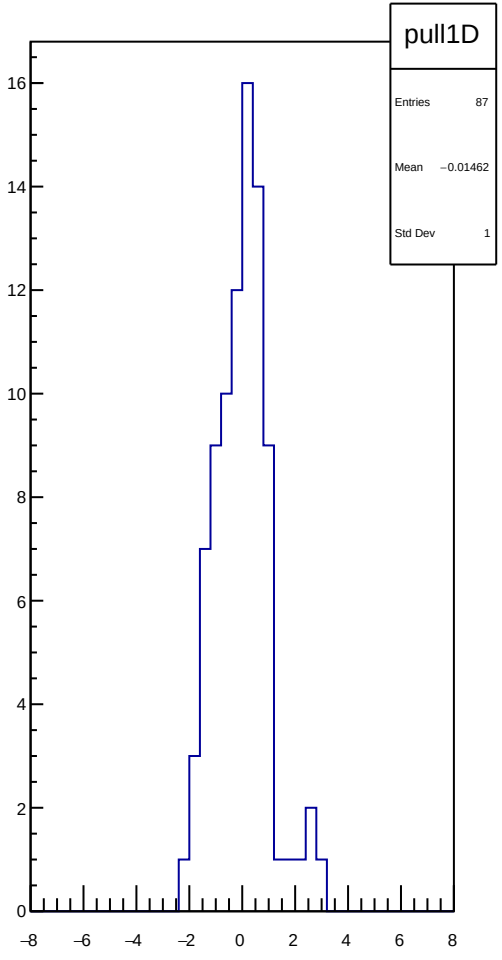

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.651e+04 / 86
p0 205.1 ± 0.1566
500
450
400
350
300
250
200
150

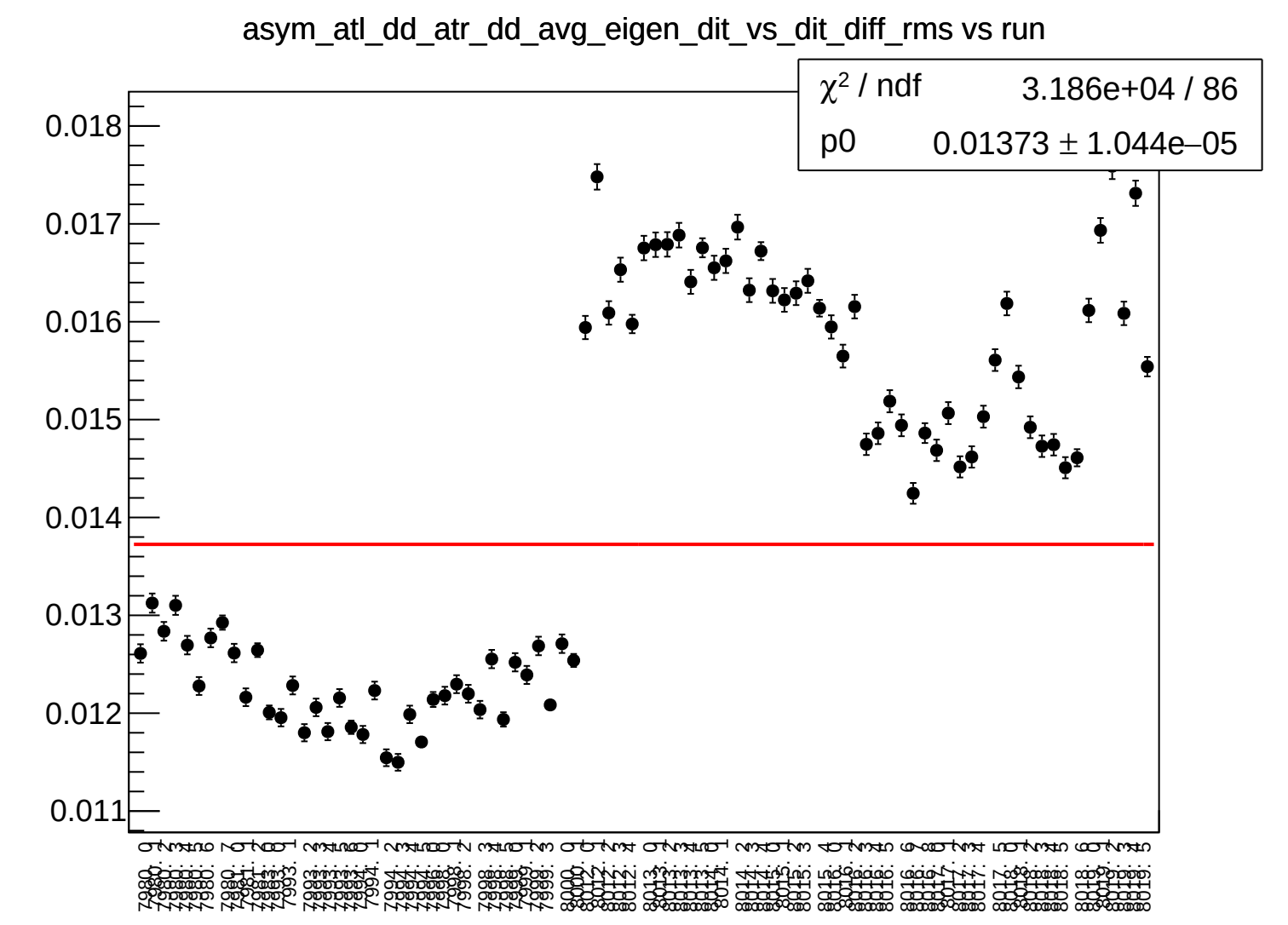

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.79 / 86
p0 −0.09174 ± 0.2215
pull
Entries 87
Mean −758.2
Std Dev 0

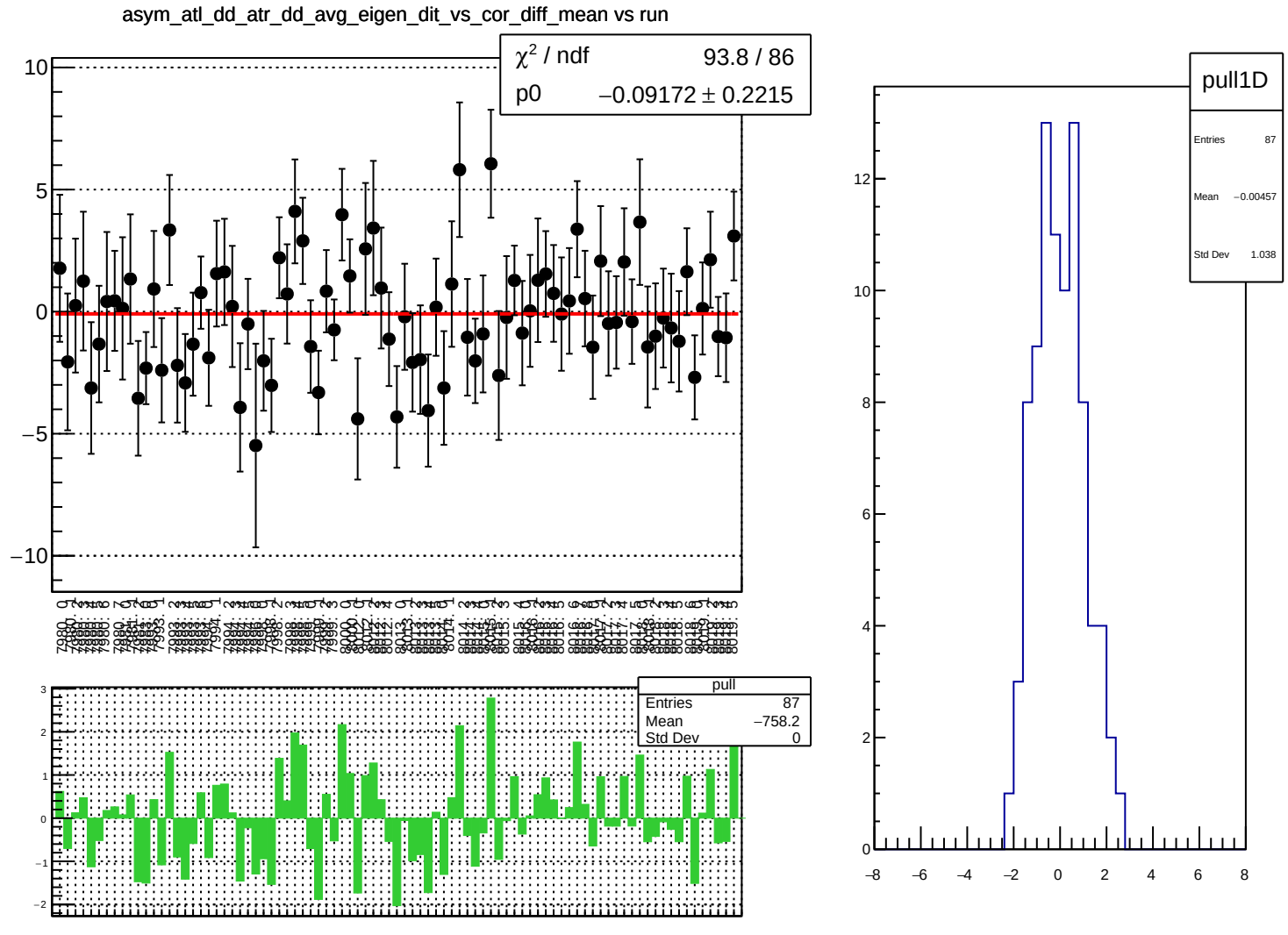

pull1D
Entries 87
Mean −0.00457
Std Dev 1.038

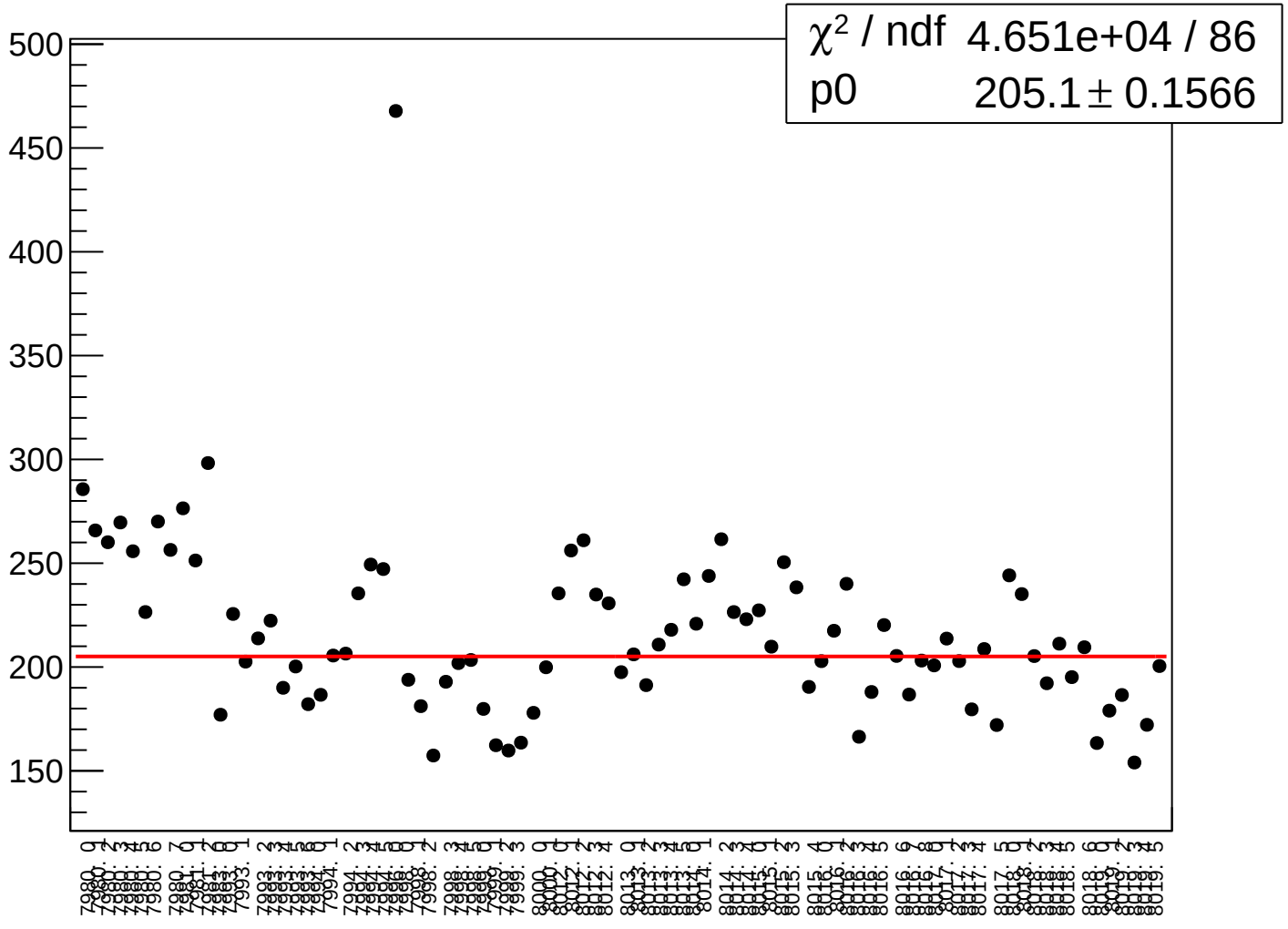

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.651e+04 / 86
p0 205.1 ± 0.1566
500
450
400
350
300
250
200
150

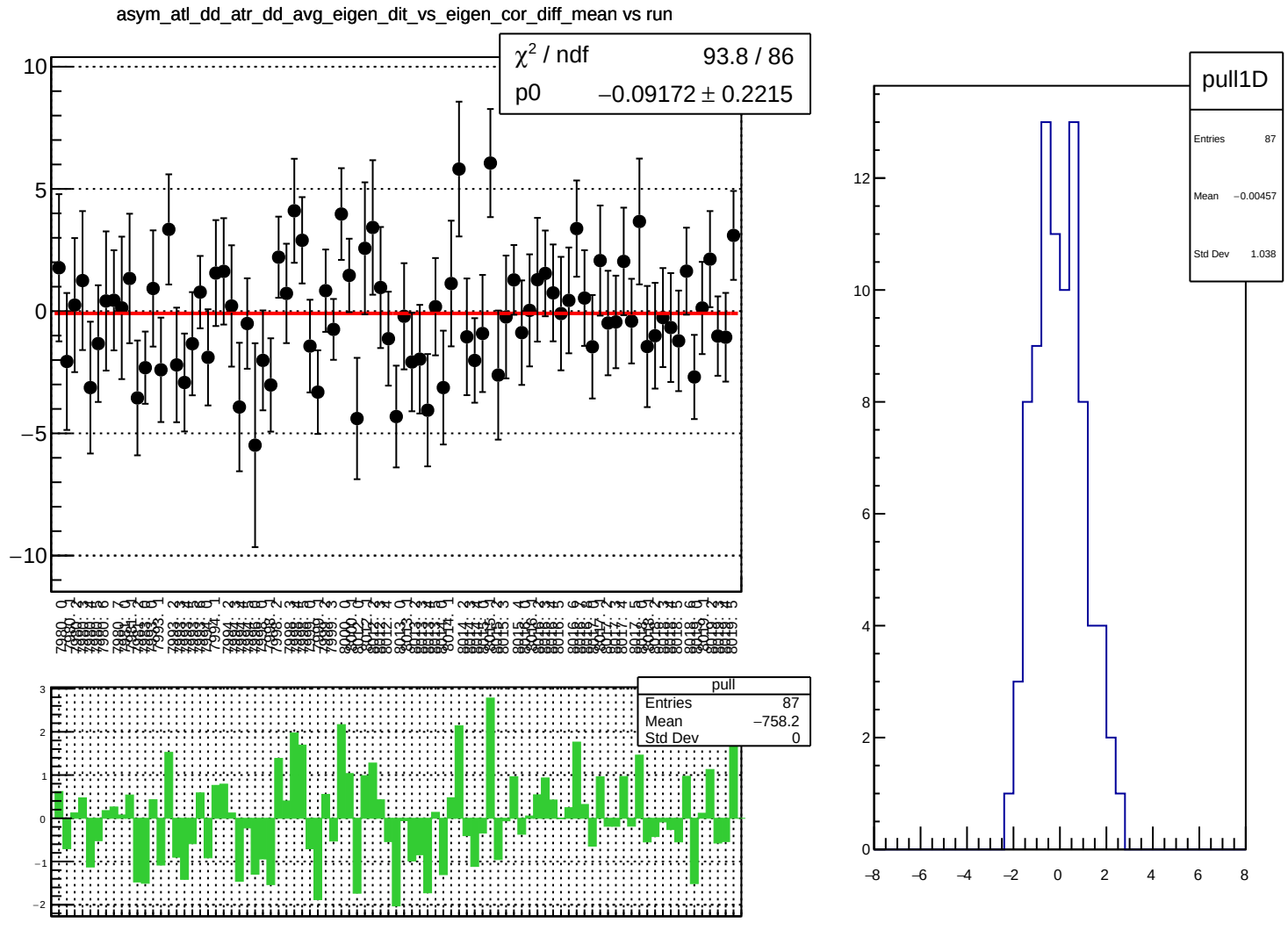

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.07 / 86
p0 3.077e−05 ± 1.476e−05
pull
Entries 87
Mean 40.51
Std Dev 40.76

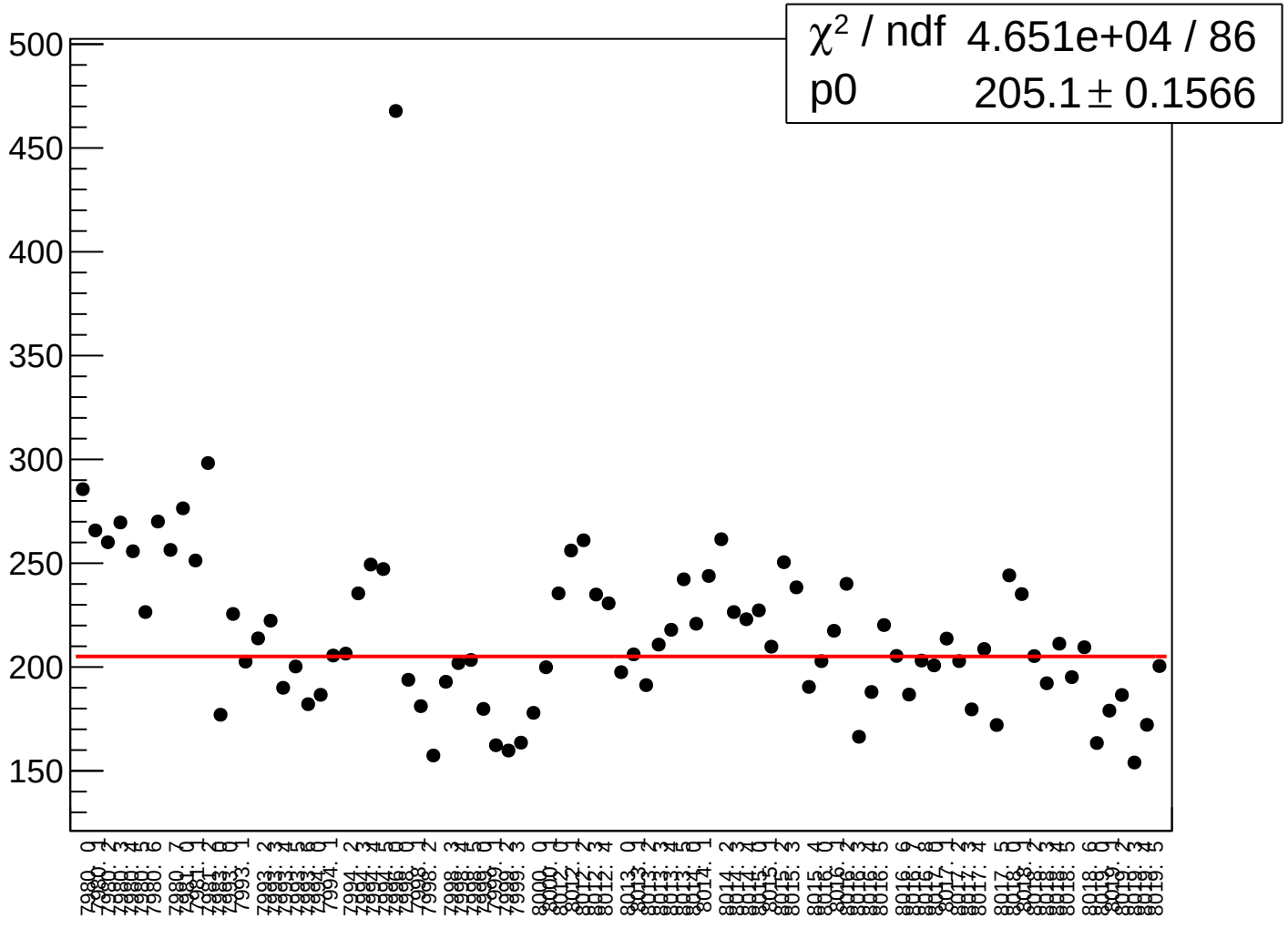

pull1D
Entries 87
Mean −0.01462
Std Dev 1

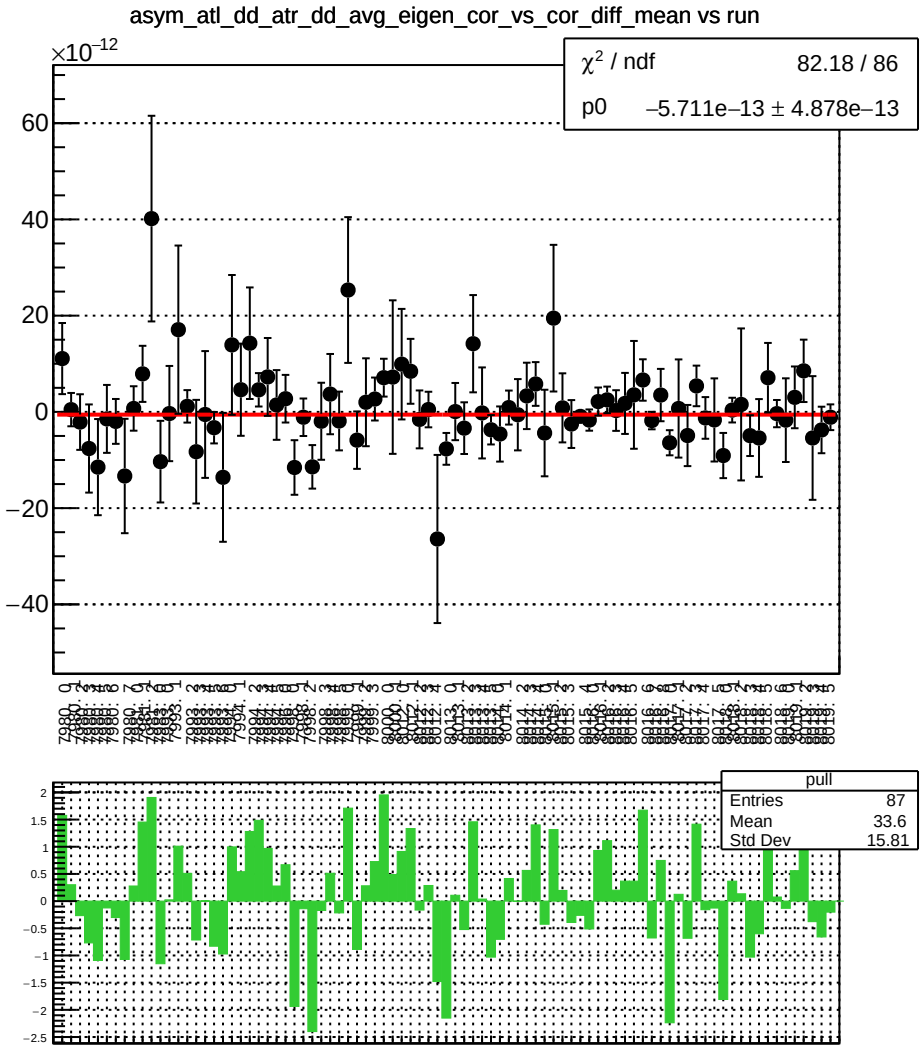

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.186e+04 / 86
p0 0.01373 ± 1.044e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

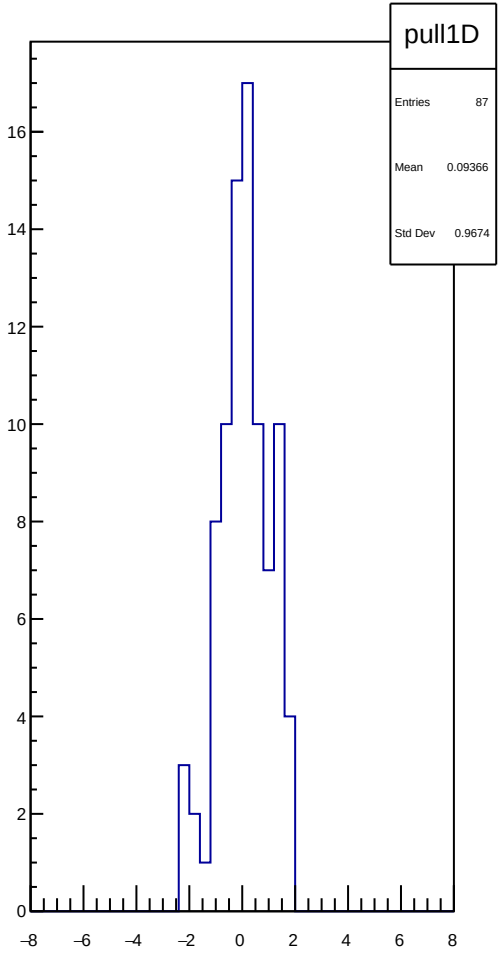

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.8 / 86
p0 −0.09172 ± 0.2215
pull
Entries 87
Mean −758.2
Std Dev 0
pull1D
Entries 87
Mean −0.00457
Std Dev 1.038

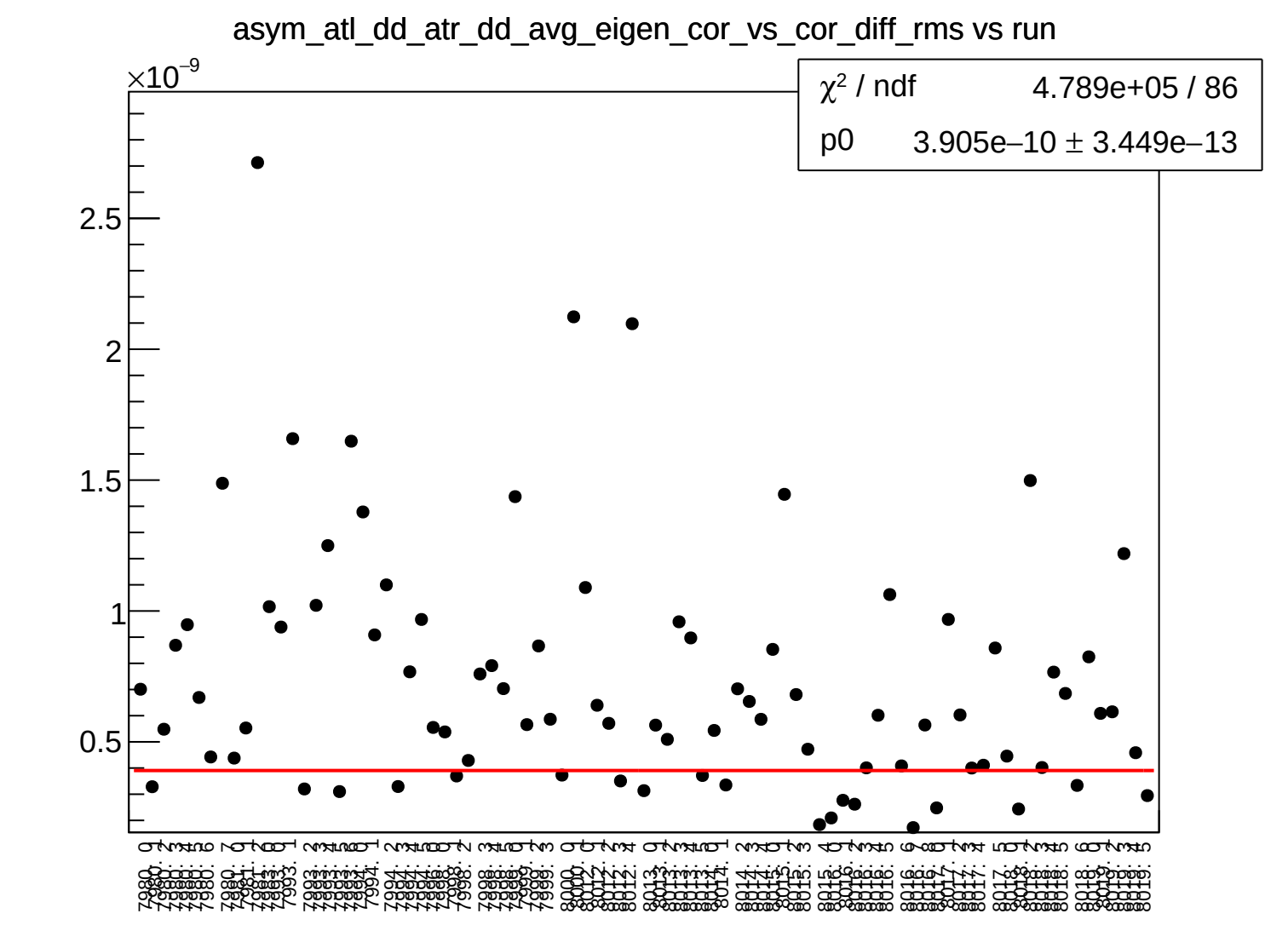

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.651e+04 / 86
p0 205.1 ± 0.1566
500
450
400
350
300
250
200
150

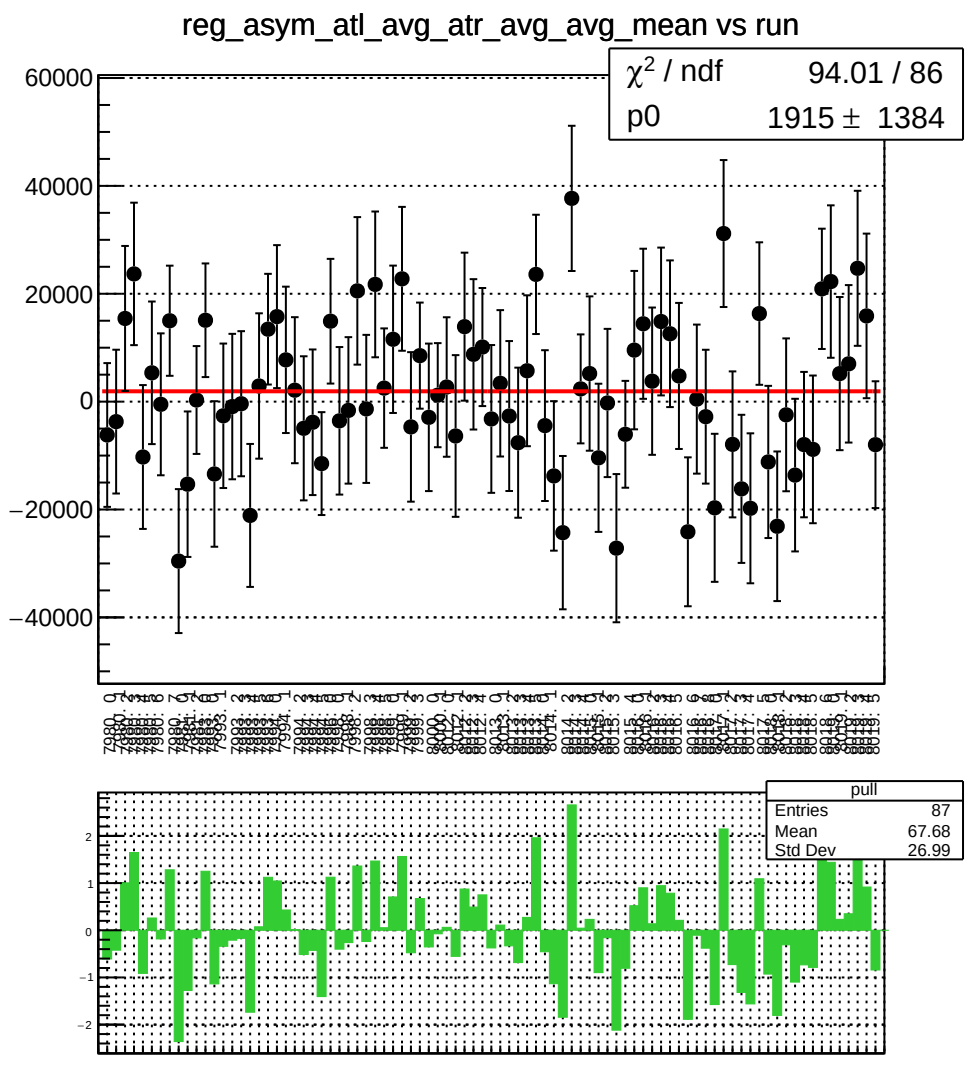

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.8 / 86
p0 −0.09172 ± 0.2215
pull
Entries 87
Mean −758.2
Std Dev 0
pull1D
Entries 87
Mean −0.00457
Std Dev 1.038

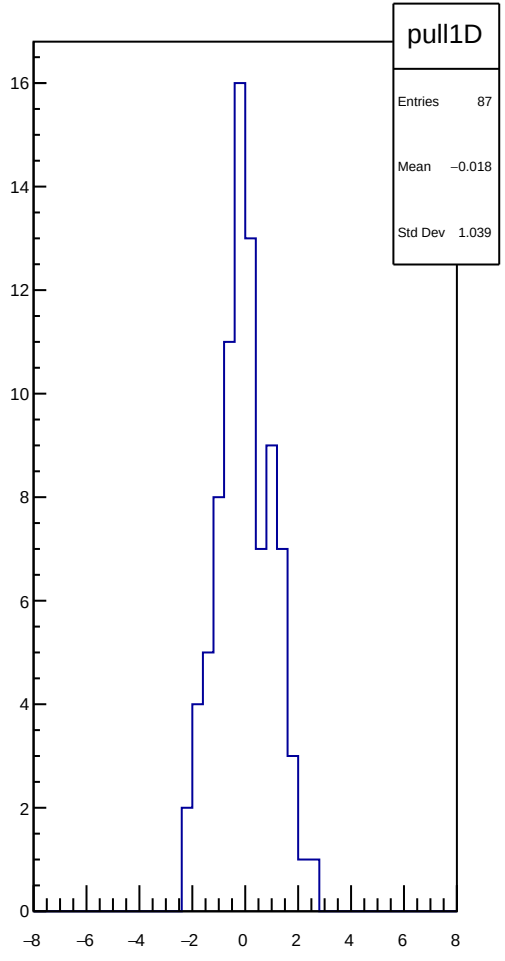

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.651e+04 / 86
p0 205.1 ± 0.1566
500
450
400
350
300
250
200
150

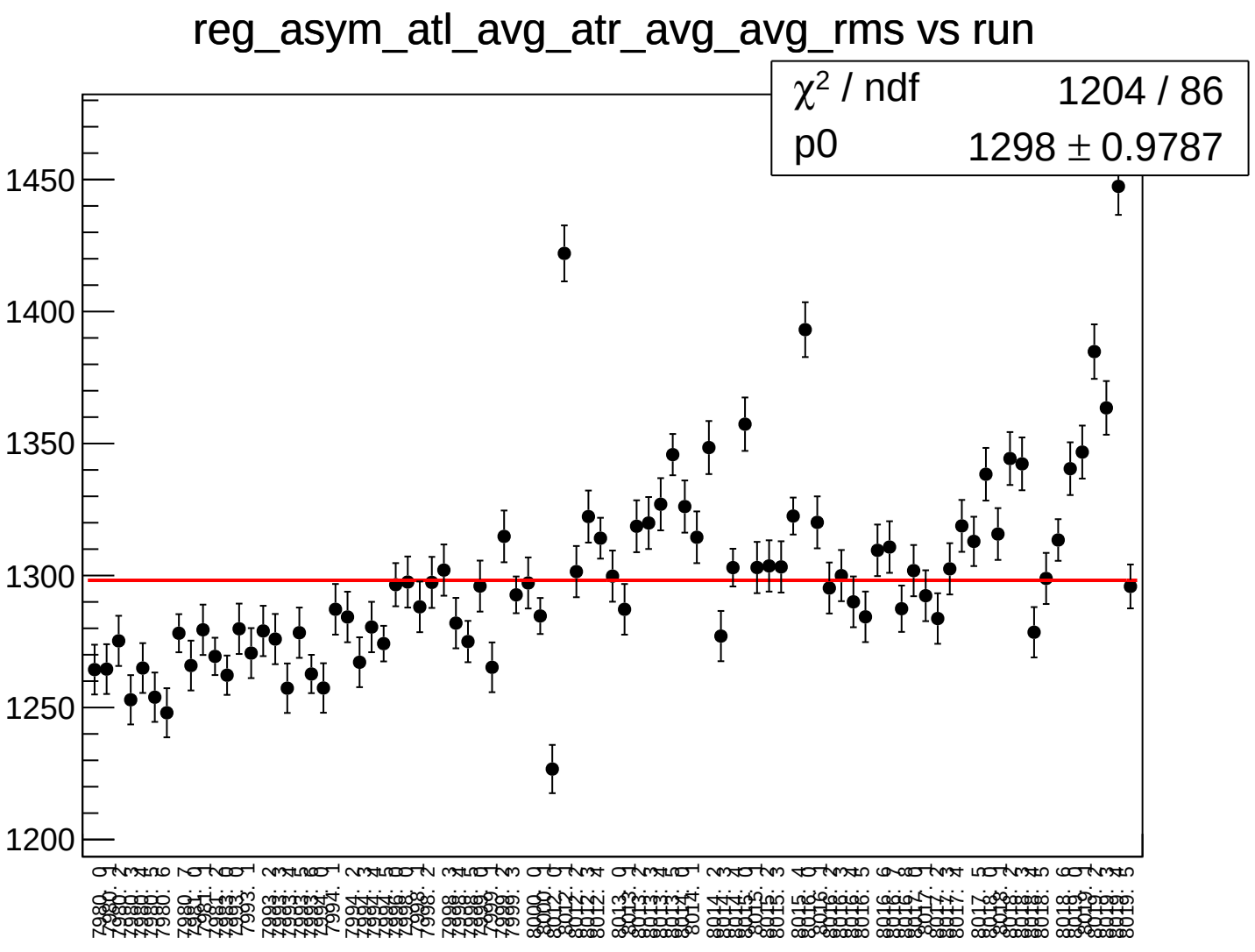

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.18 / 86
p0 −5.711e−13 ± 4.878e−13
60
40
20
0
−20
−40
pull
Entries 87
Mean 33.6
Std Dev 15.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

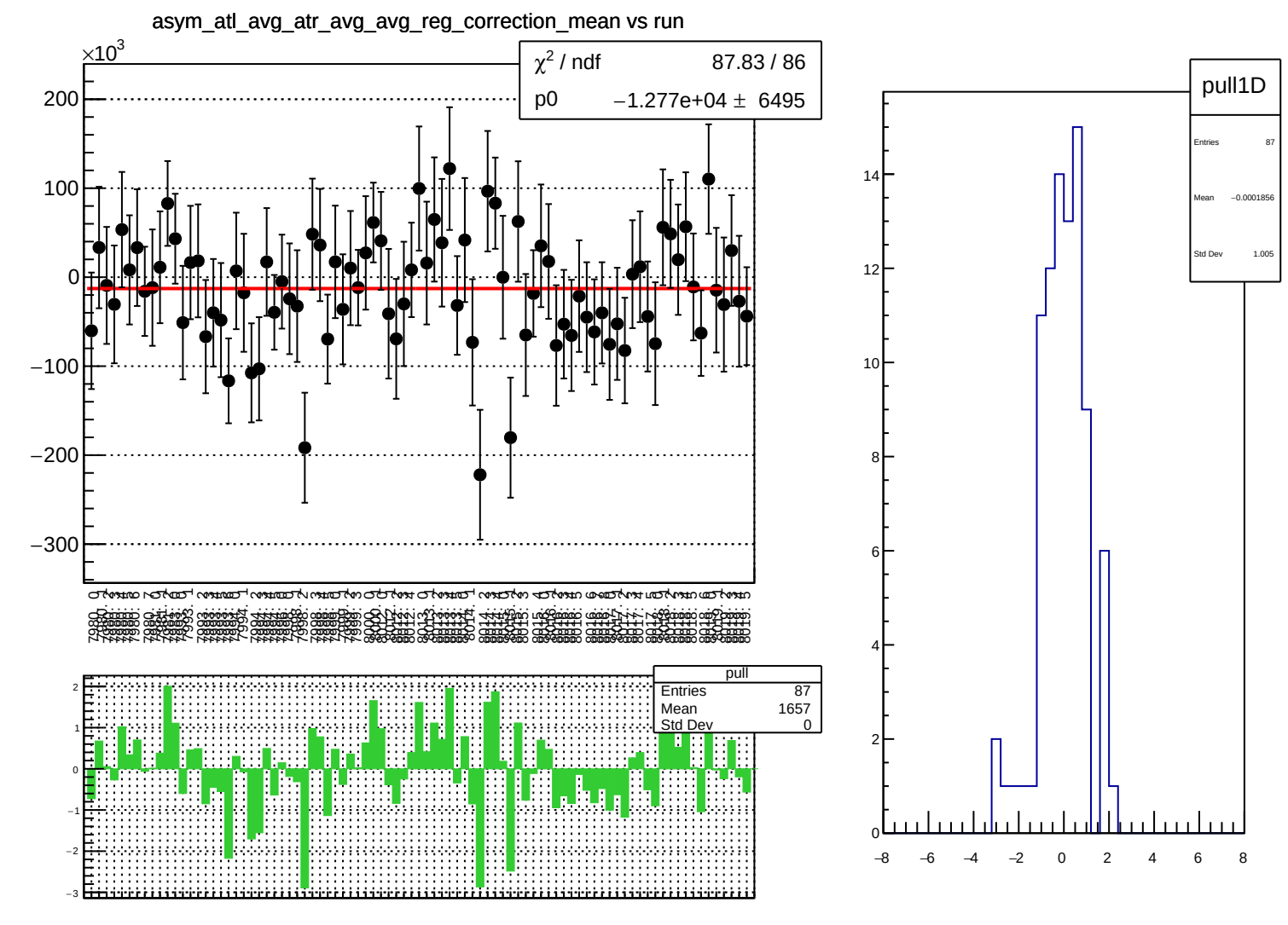

pull1D
Entries 87
Mean 0.09366
Std Dev 0.9674
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

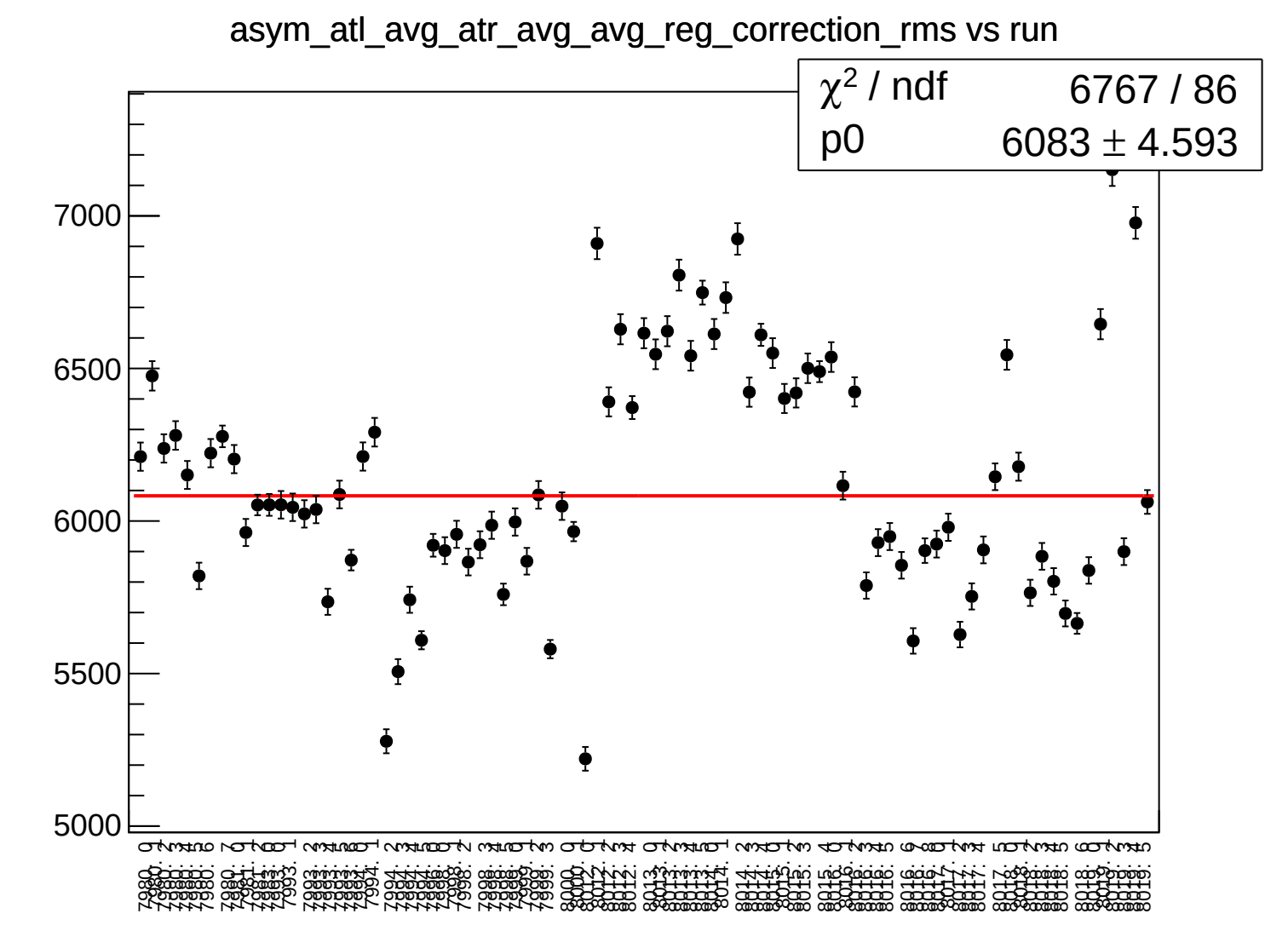

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.789e+05 / 86
p0 3.905e−10 ± 3.449e−13
2.5
2
1.5
1
0.5

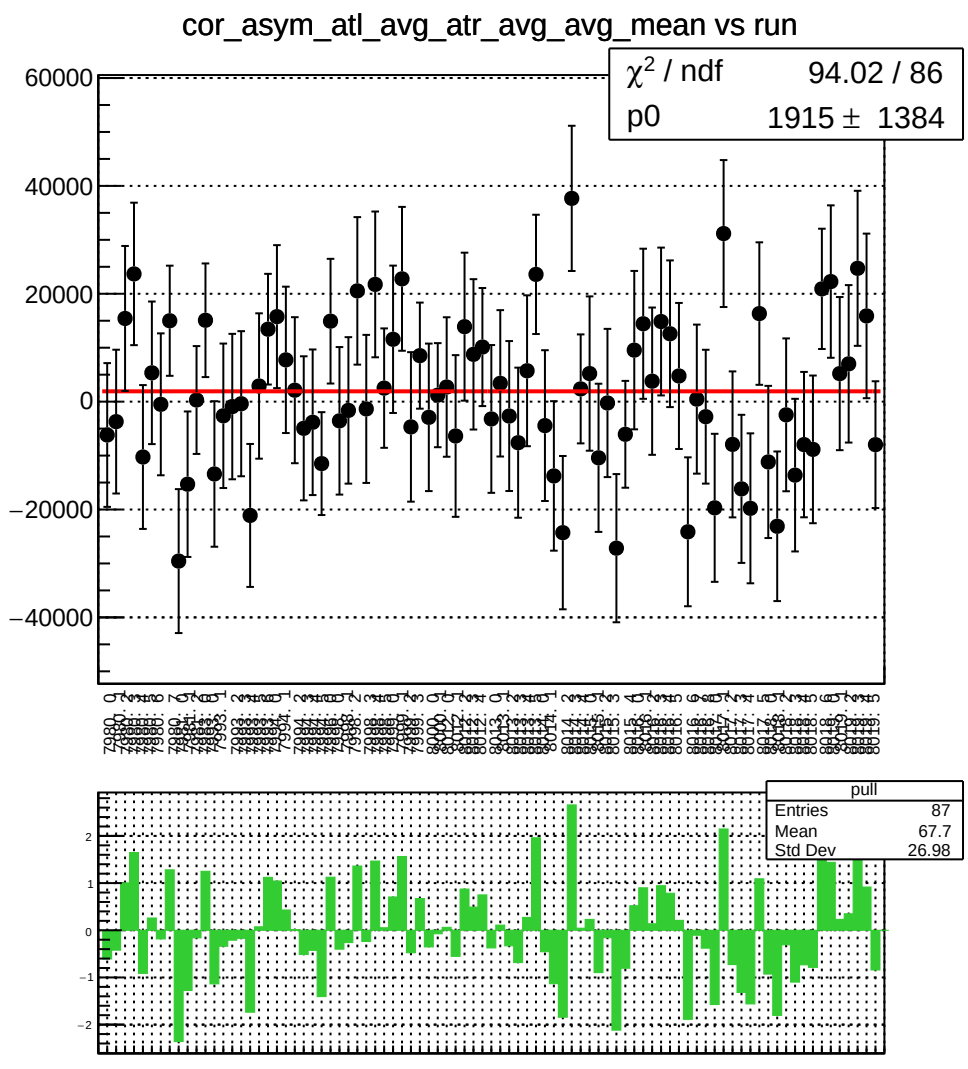

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 94.01 / 86
p0 1915 ± 1384
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 67.68
Std Dev 26.99
2
1
0
−1
−2

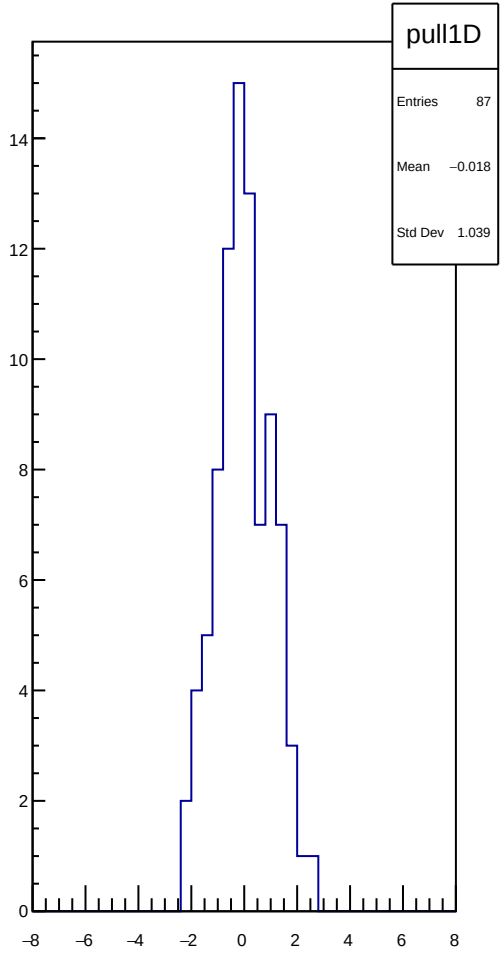

pull1D
Entries 87
Mean −0.018
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

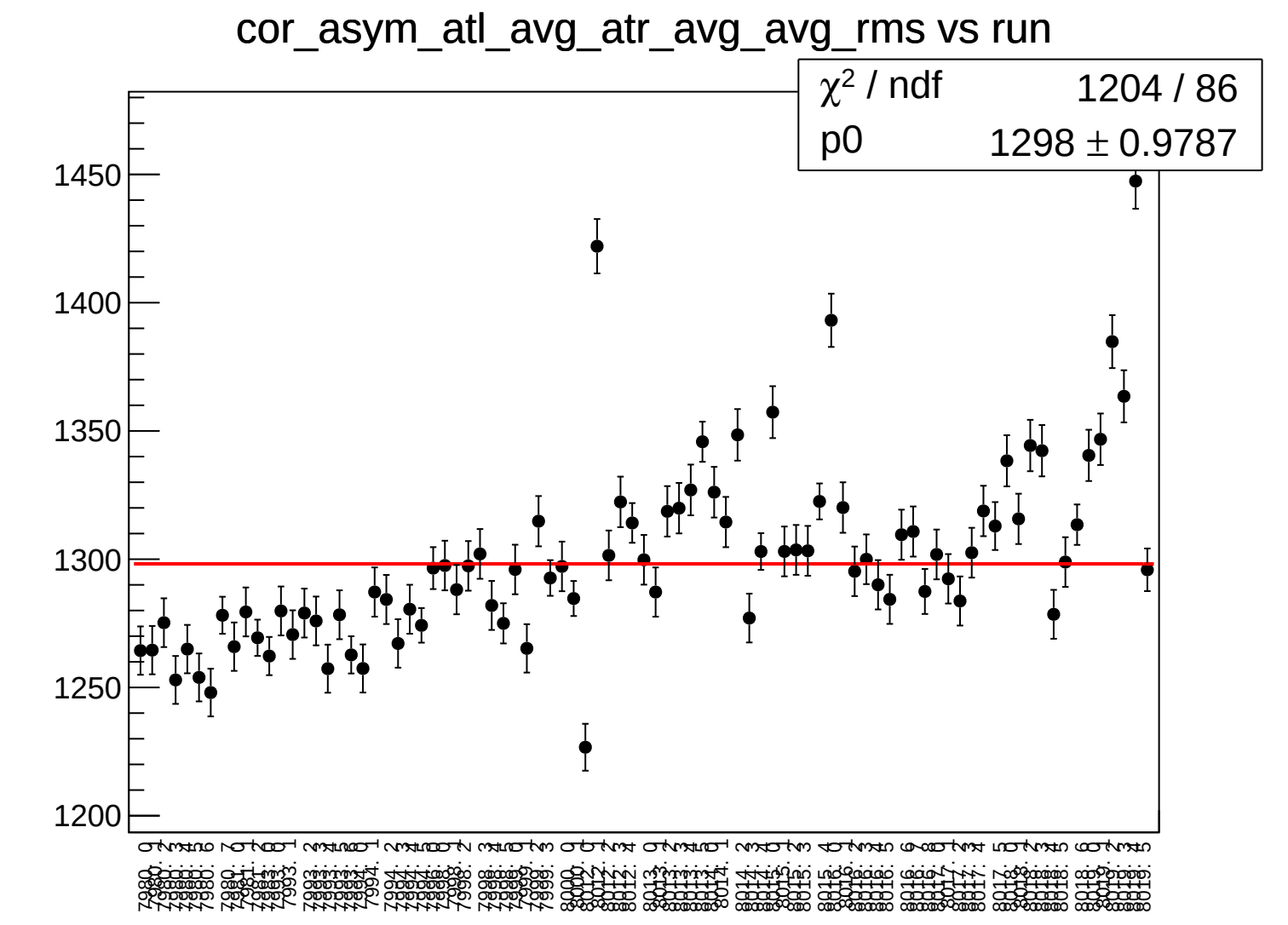

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1204 / 86
p0 1298 ± 0.9787
1450
1400
1350
1300
1250
1200

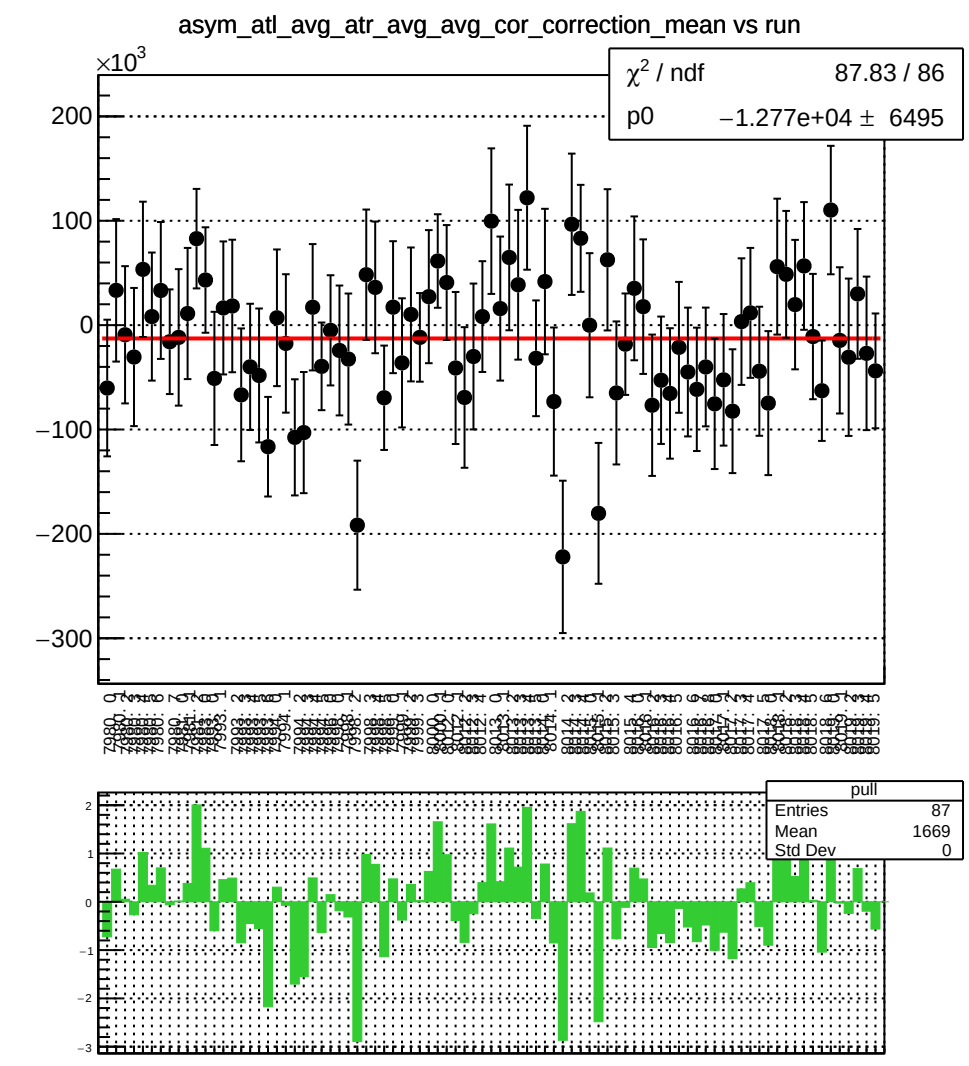

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 87.83 / 86
p0 −1.277e+04 ± 6495
pull
Entries 87
Mean 1657
Std Dev 0
pull1D
Entries 87
Mean −0.0001856
Std Dev 1.005

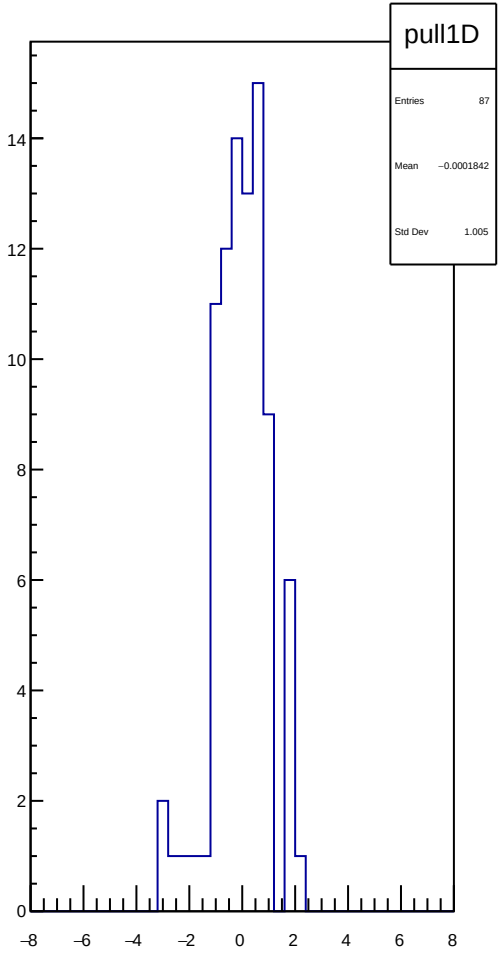

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 6767 / 86
p0 6083 ± 4.593
7000
6500
6000
5500
5000

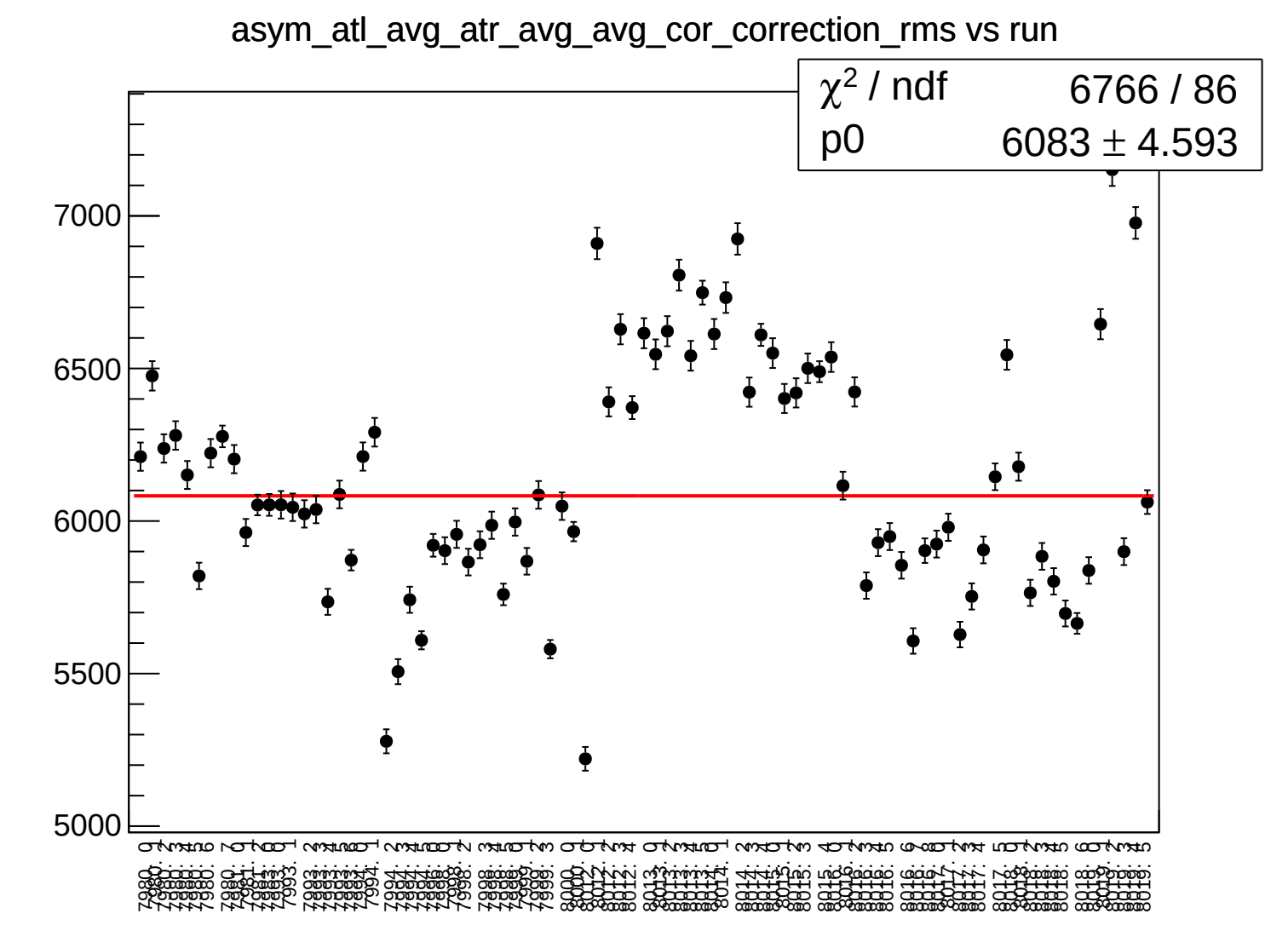

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 94.02 / 86
p0 1915 ± 1384
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 67.7
Std Dev 26.98
2
1
0
−1
−2

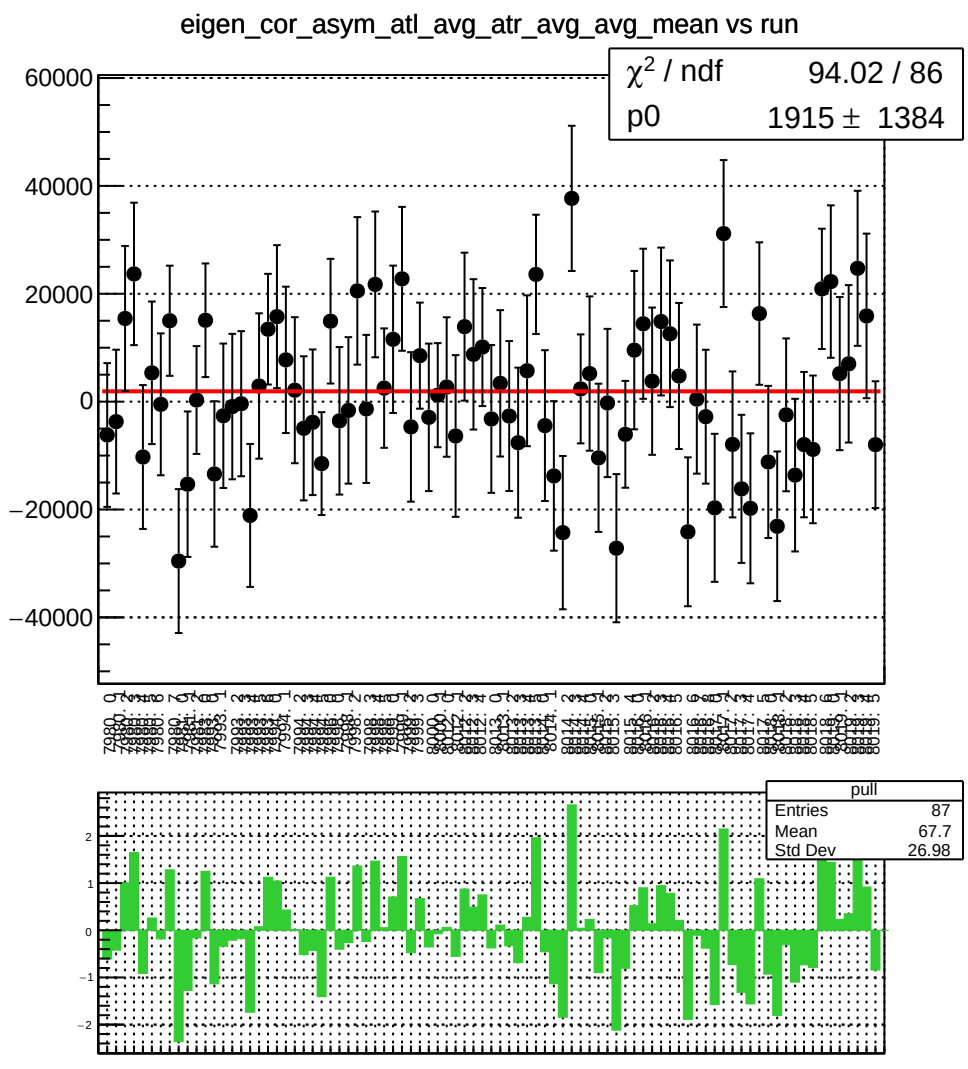

pull1D
Entries 87
Mean −0.018
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

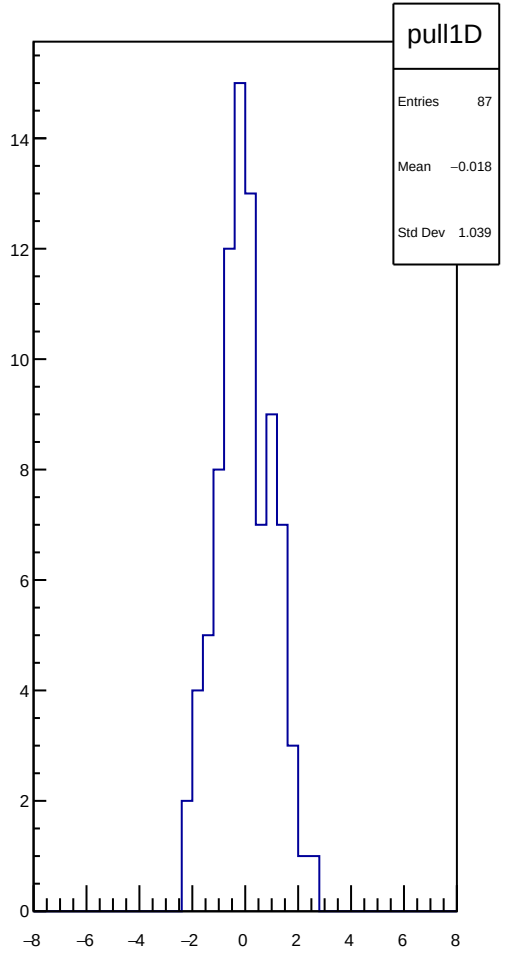

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1204 / 86
p0 1298 ± 0.9787
1450
1400
1350
1300
1250
1200

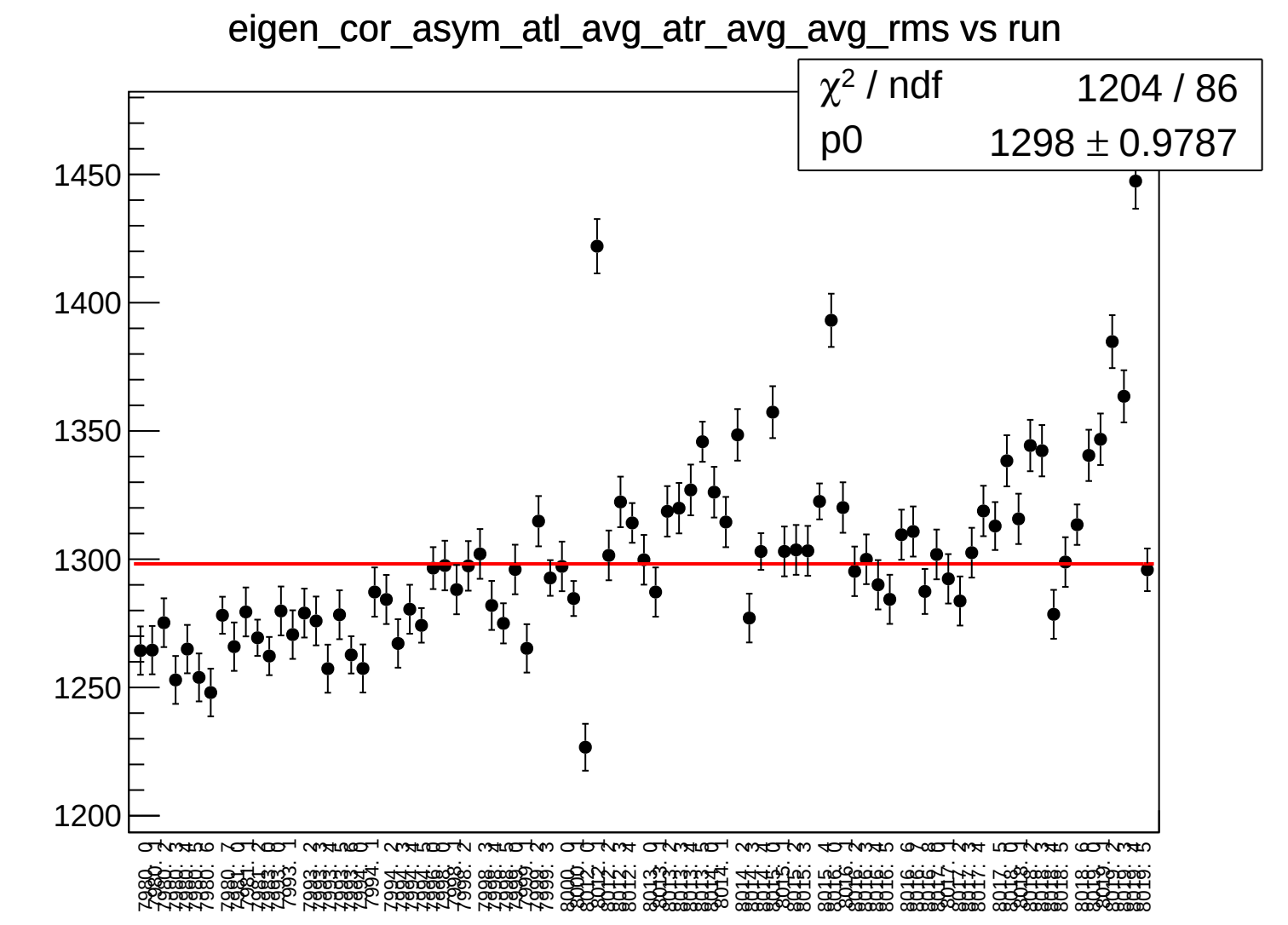

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 87.83 / 86
p0 −1.277e+04 ± 6495
pull
Entries 87
Mean 1669
Std Dev 0

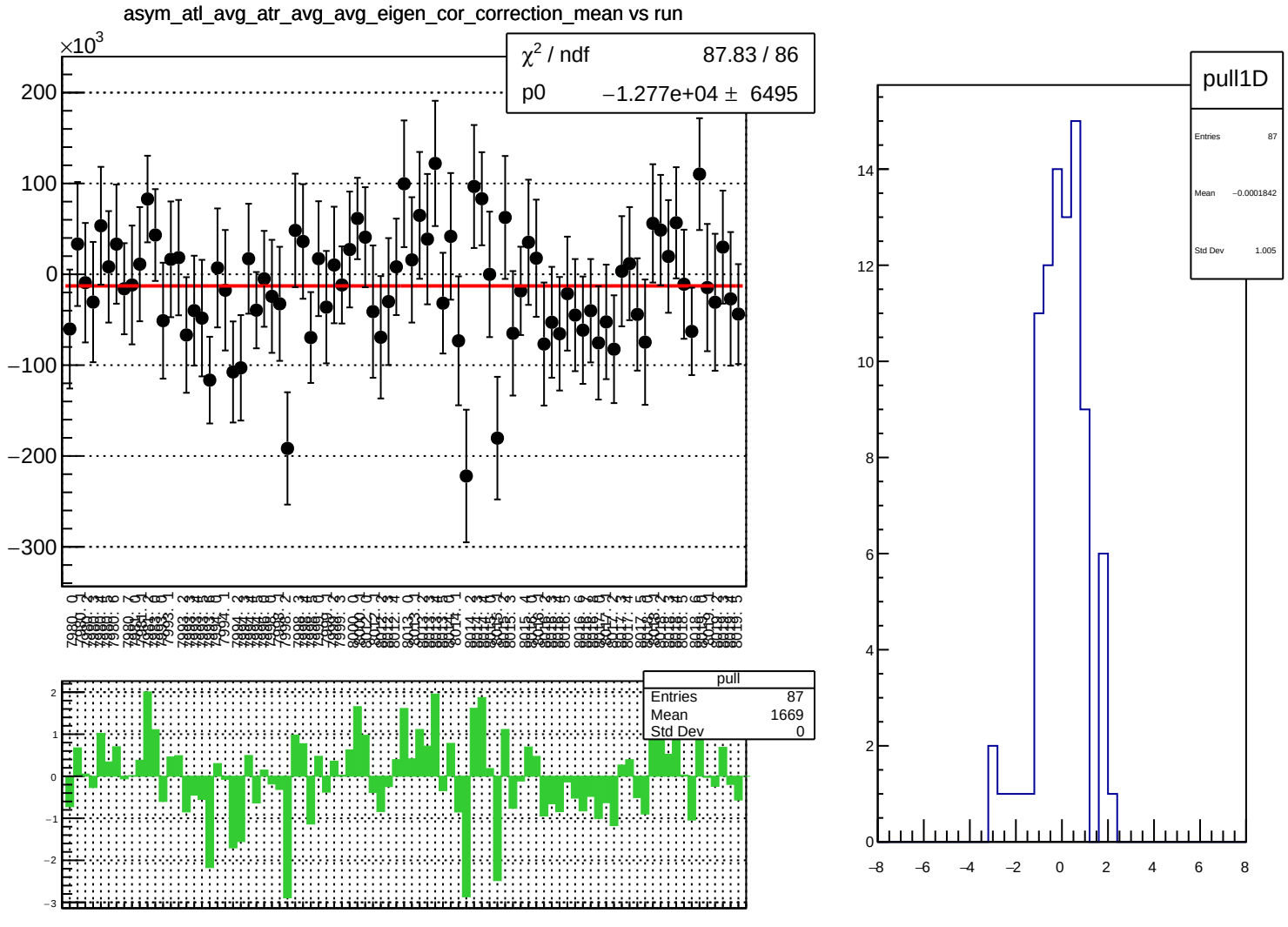

pull1D
Entries 87
Mean −0.0001842
Std Dev 1.005

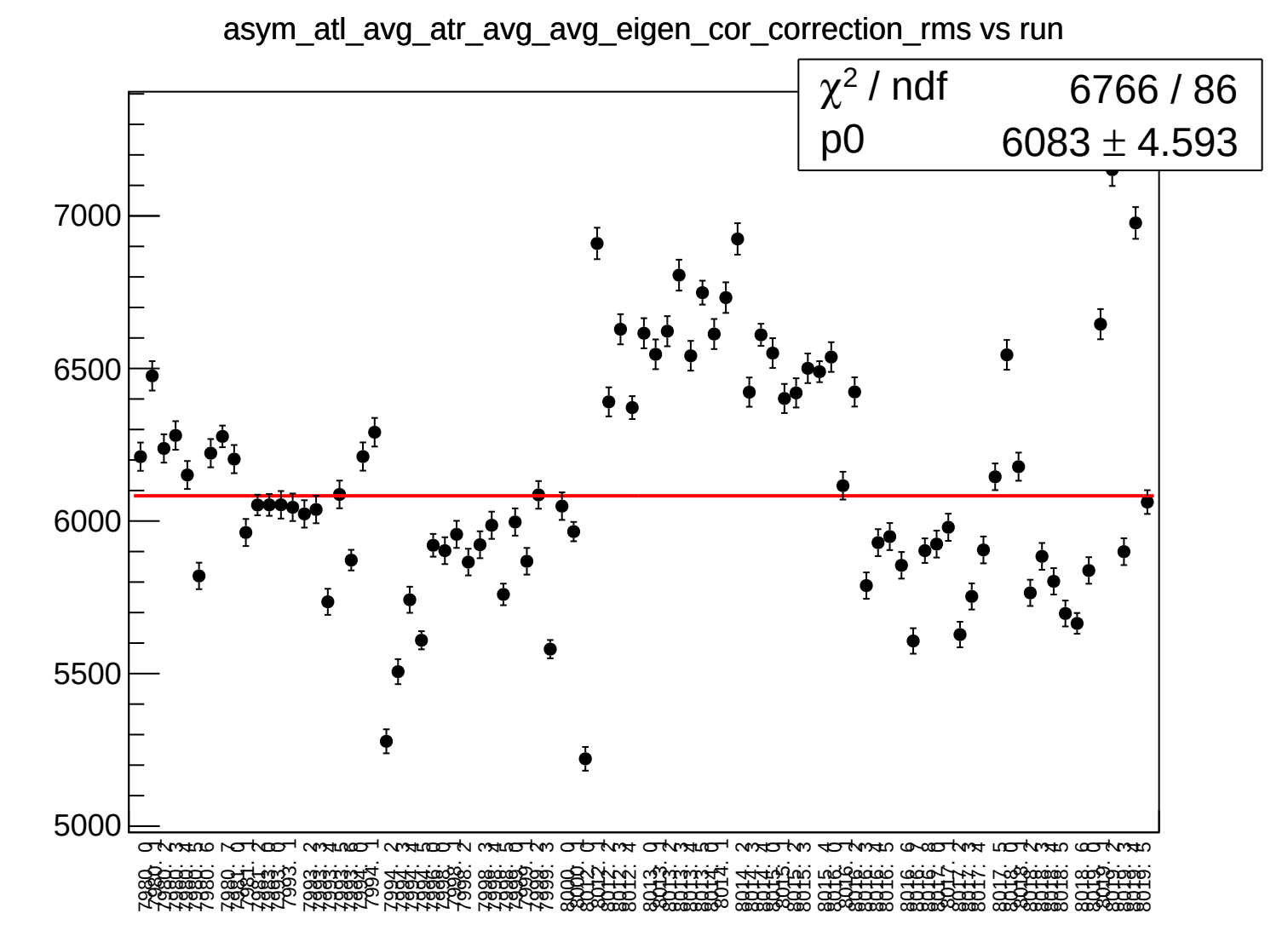

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 6766 / 86
p0 6083 ± 4.593
7000
6500
6000
5500
5000

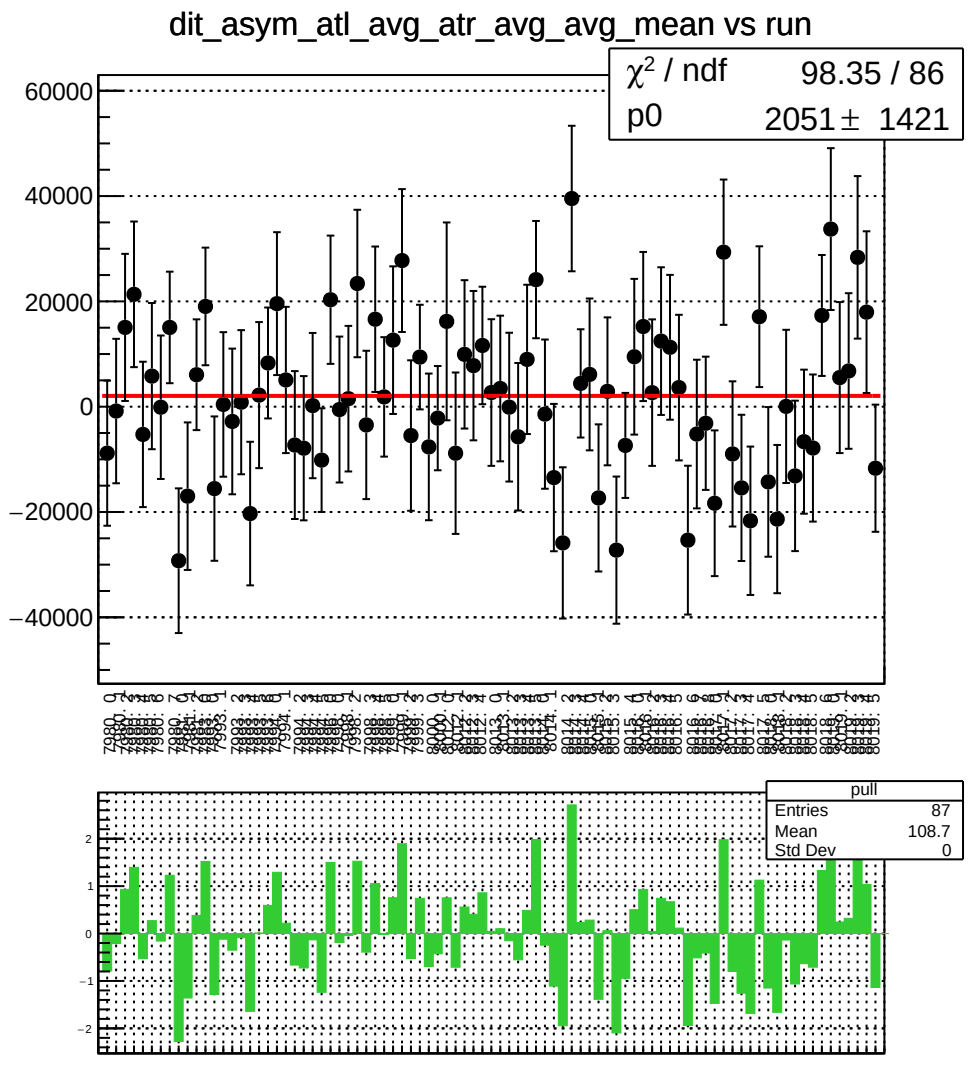

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 94.02 / 86
p0 1915 ± 1384
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 67.7
Std Dev 26.98
2
1
0
−1
−2

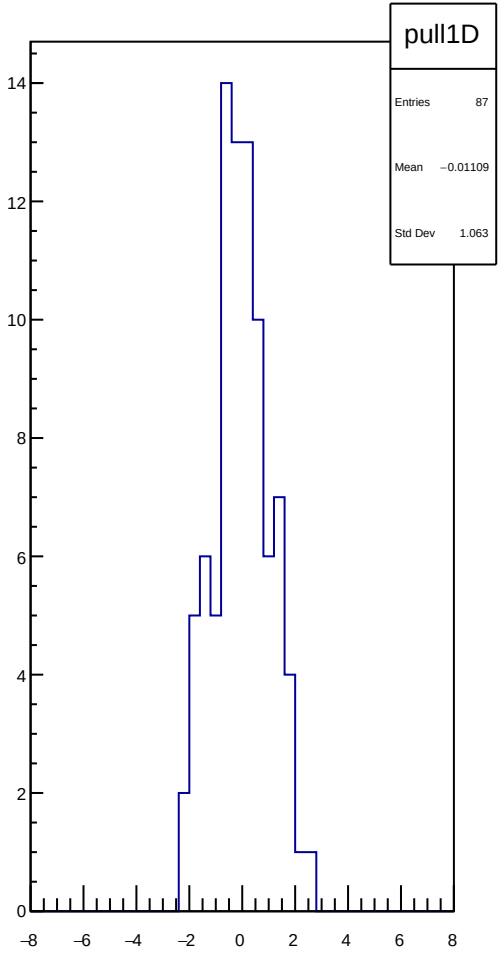

pull1D
Entries 87
Mean −0.018
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

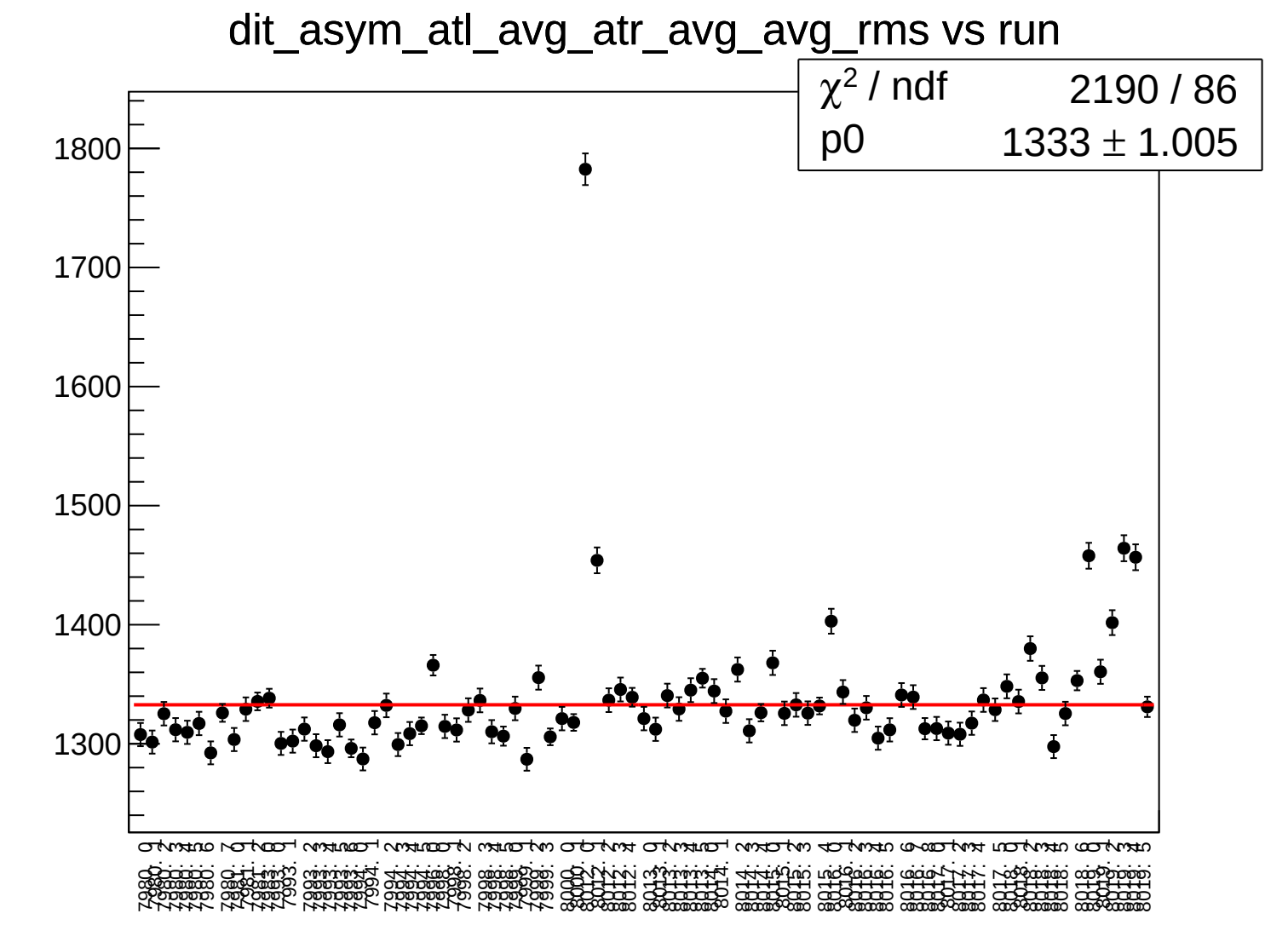

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1204 / 86
p0 1298 ± 0.9787
1450
1400
1350
1300
1250
1200

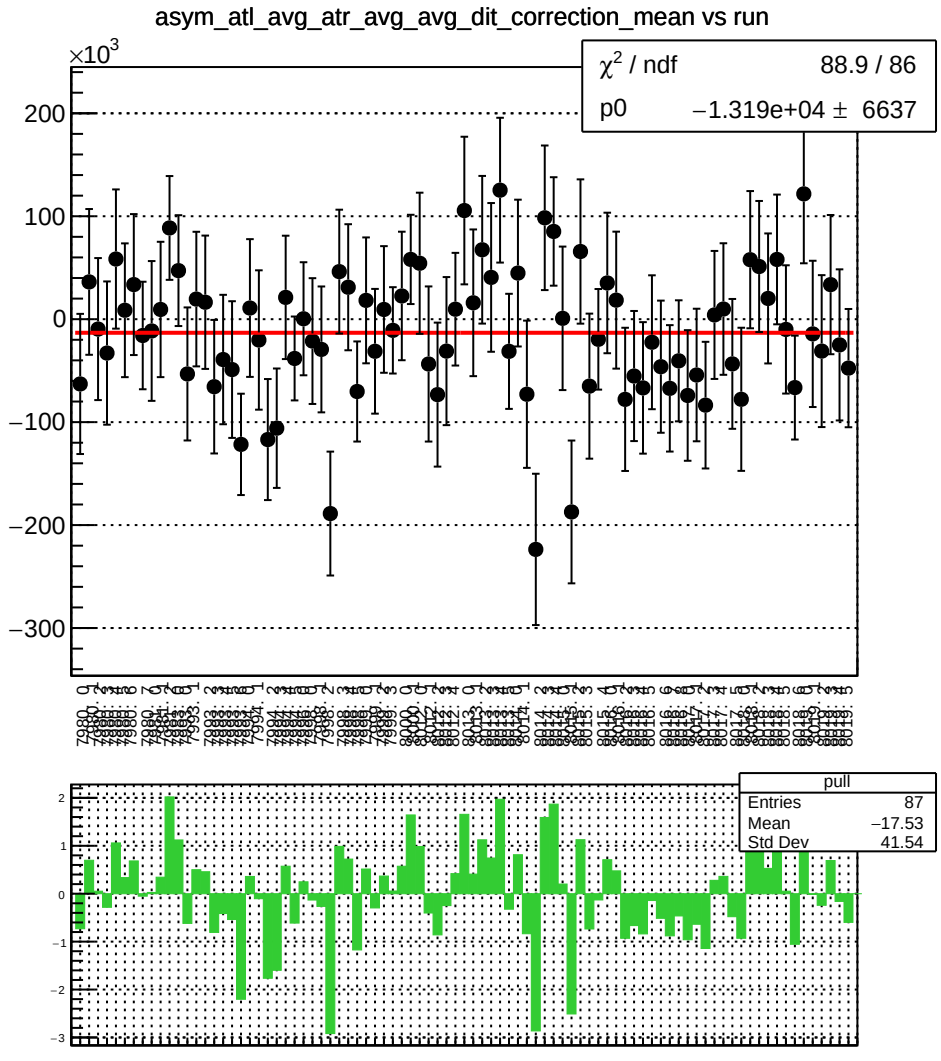

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.83 / 86
p0 −1.277e+04 ± 6495
pull
Entries 87
Mean 1669
Std Dev 0
pull1D
Entries 87
Mean −0.0001842
Std Dev 1.005

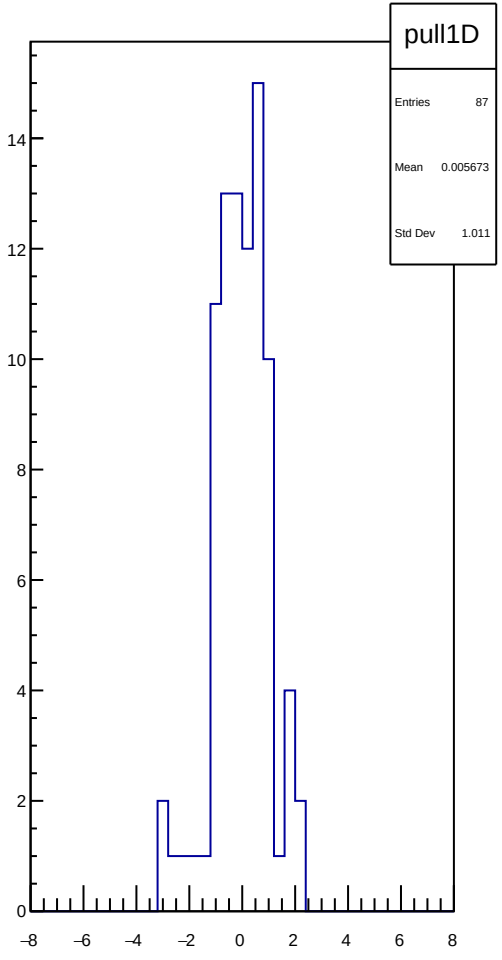

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6766 / 86
p0 6083 ± 4.593
7000
6500
6000
5500
5000

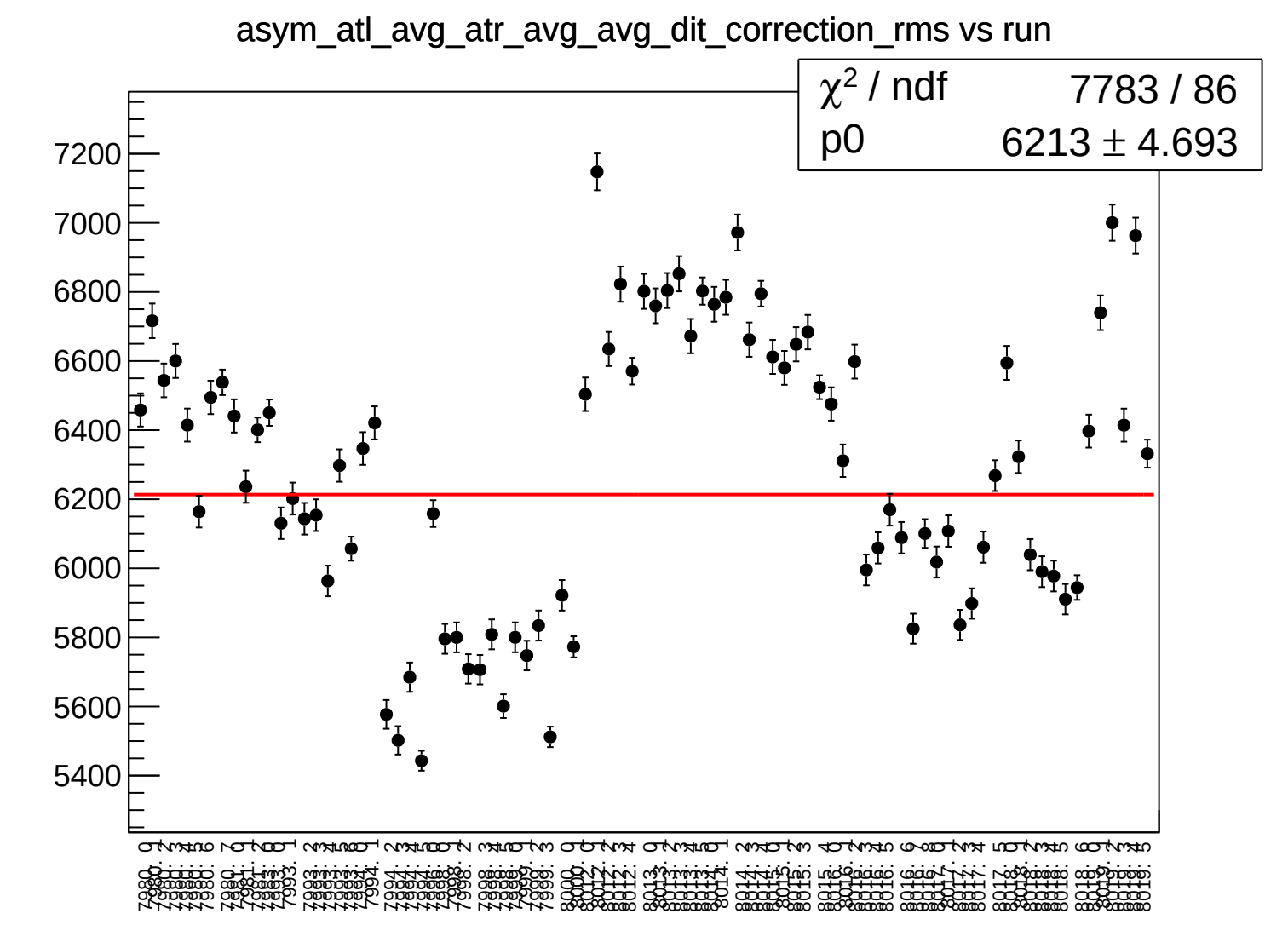

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 98.35 / 86
p0 2051 ± 1421
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 108.7
Std Dev 0
2
1
0
−1
−2

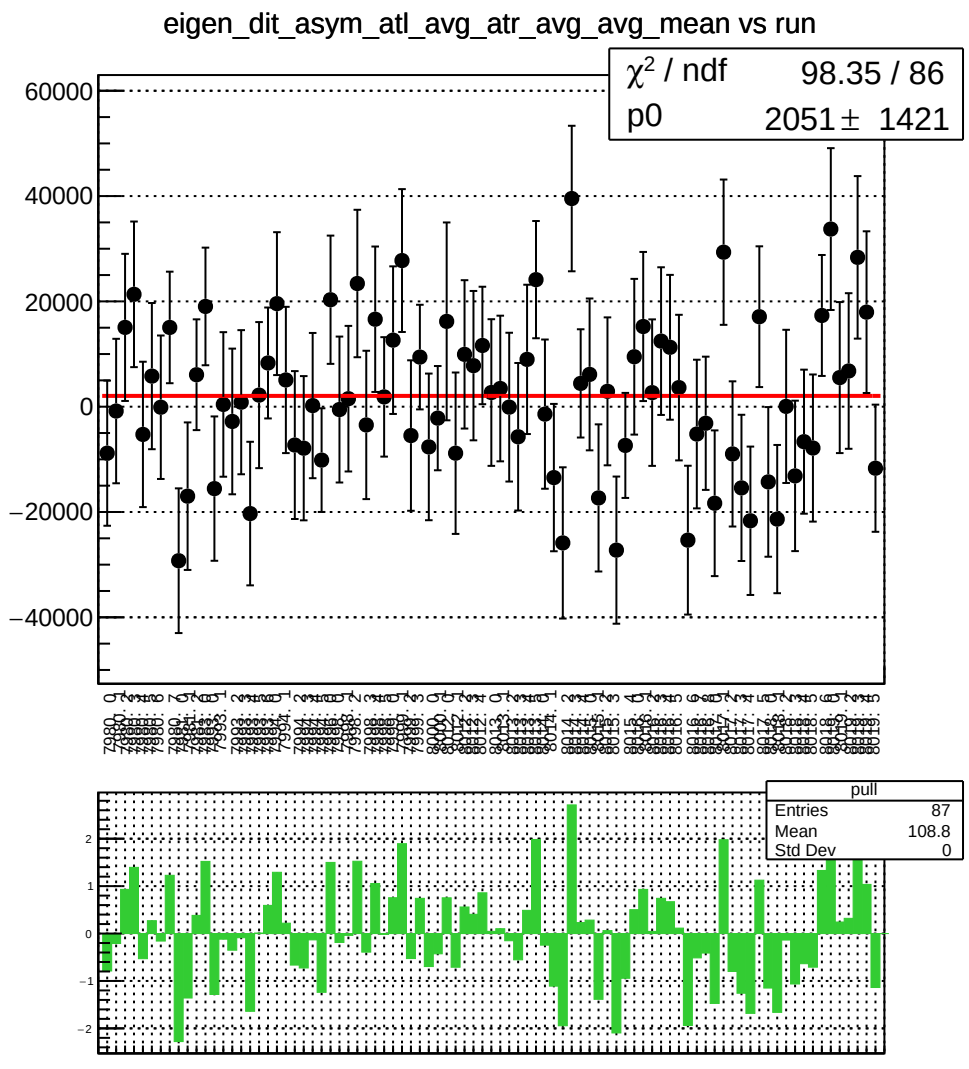

pull1D
Entries 87
Mean −0.01109
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

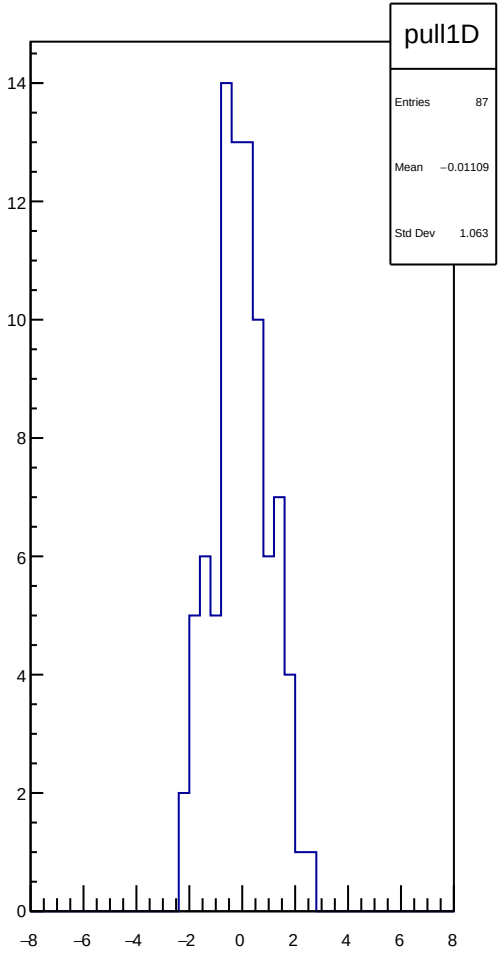

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2190 / 86
p0 1333 ± 1.005
1800
1700
1600
1500
1400
1300

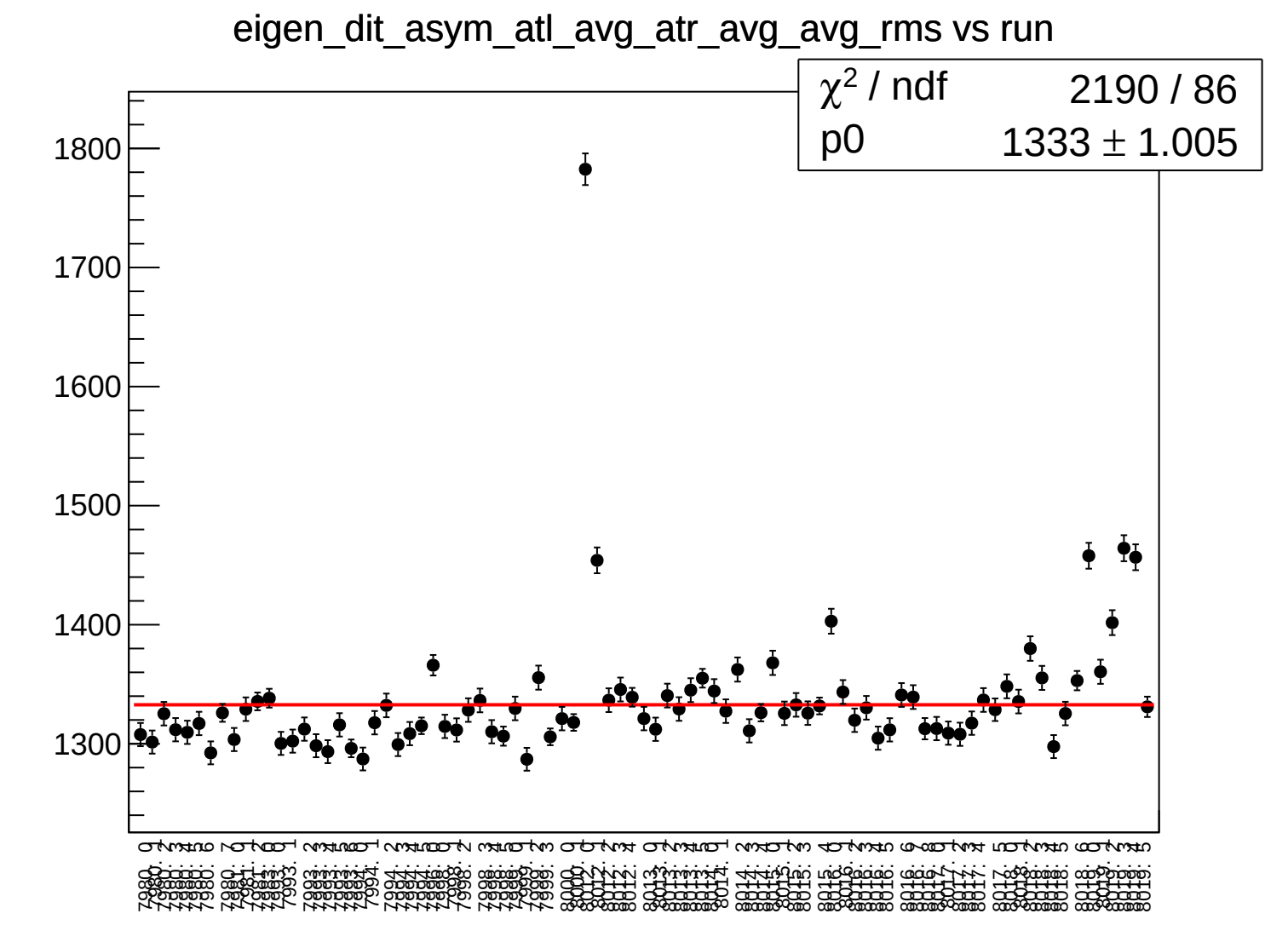

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.9 / 86
p0 −1.319e+04 ± 6637
pull
Entries 87
Mean −17.53
Std Dev 41.54

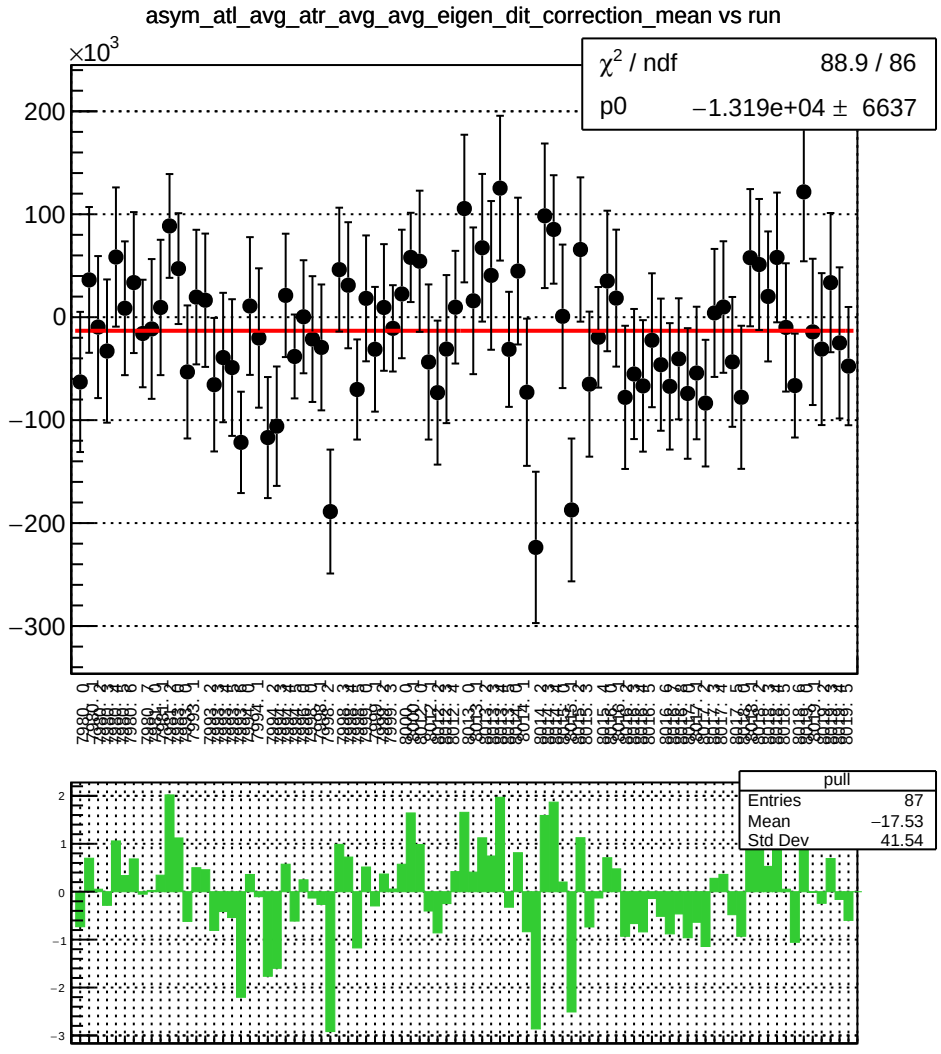

pull1D
Entries 87
Mean 0.005673
Std Dev 1.011

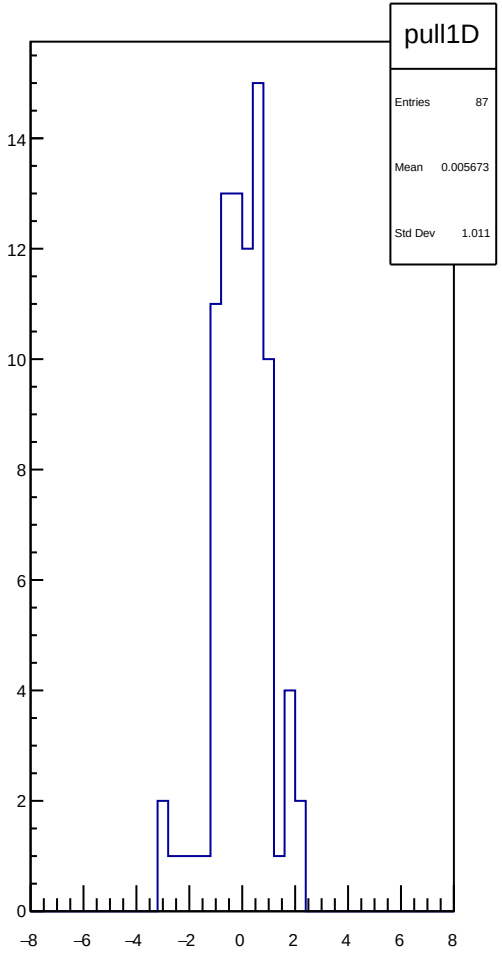

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 7783 / 86
p0 6213 ± 4.693
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

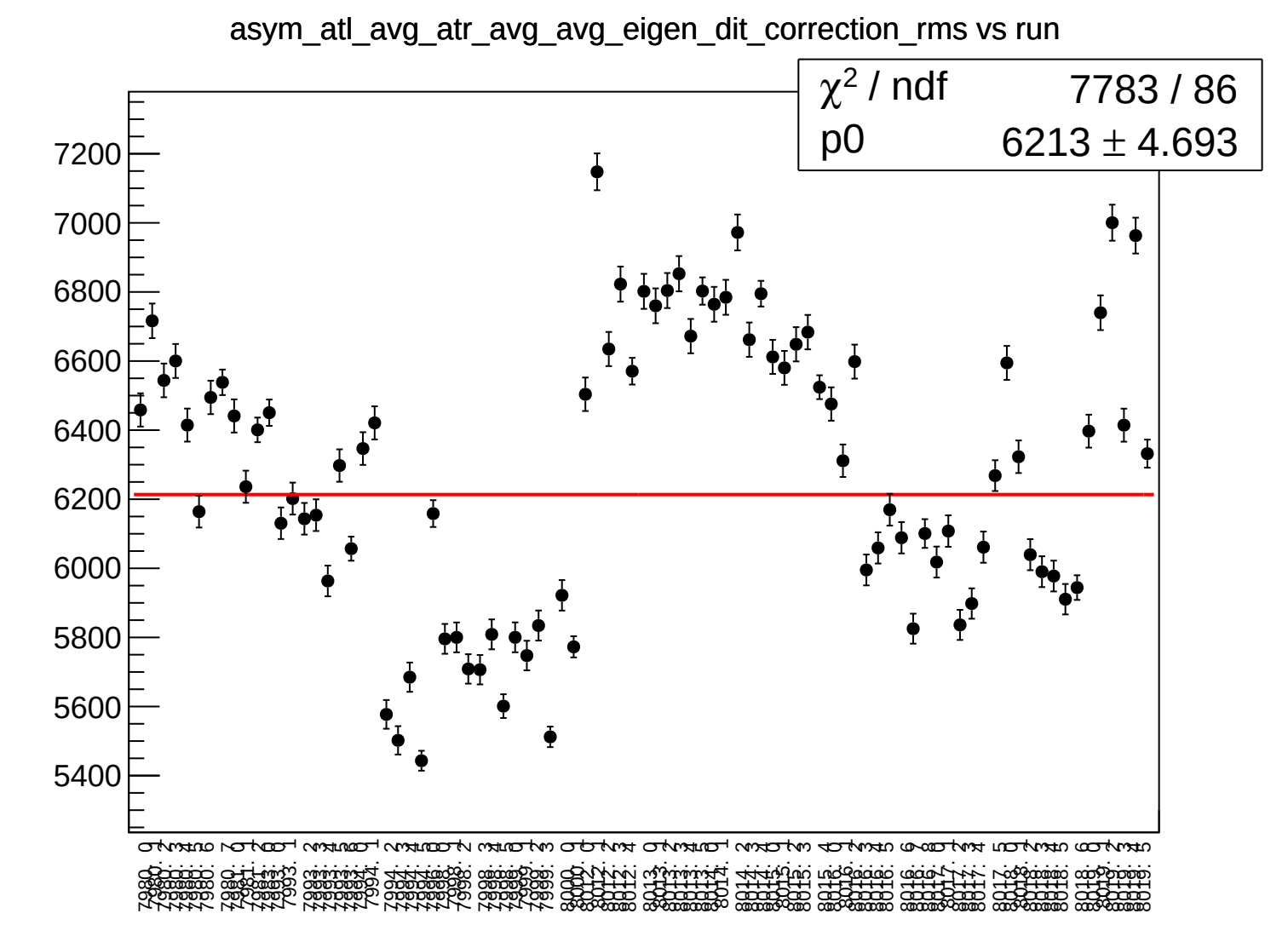

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 98.35 / 86
p0 2051 ± 1421
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 108.8
Std Dev 0
2
1
0
−1
−2

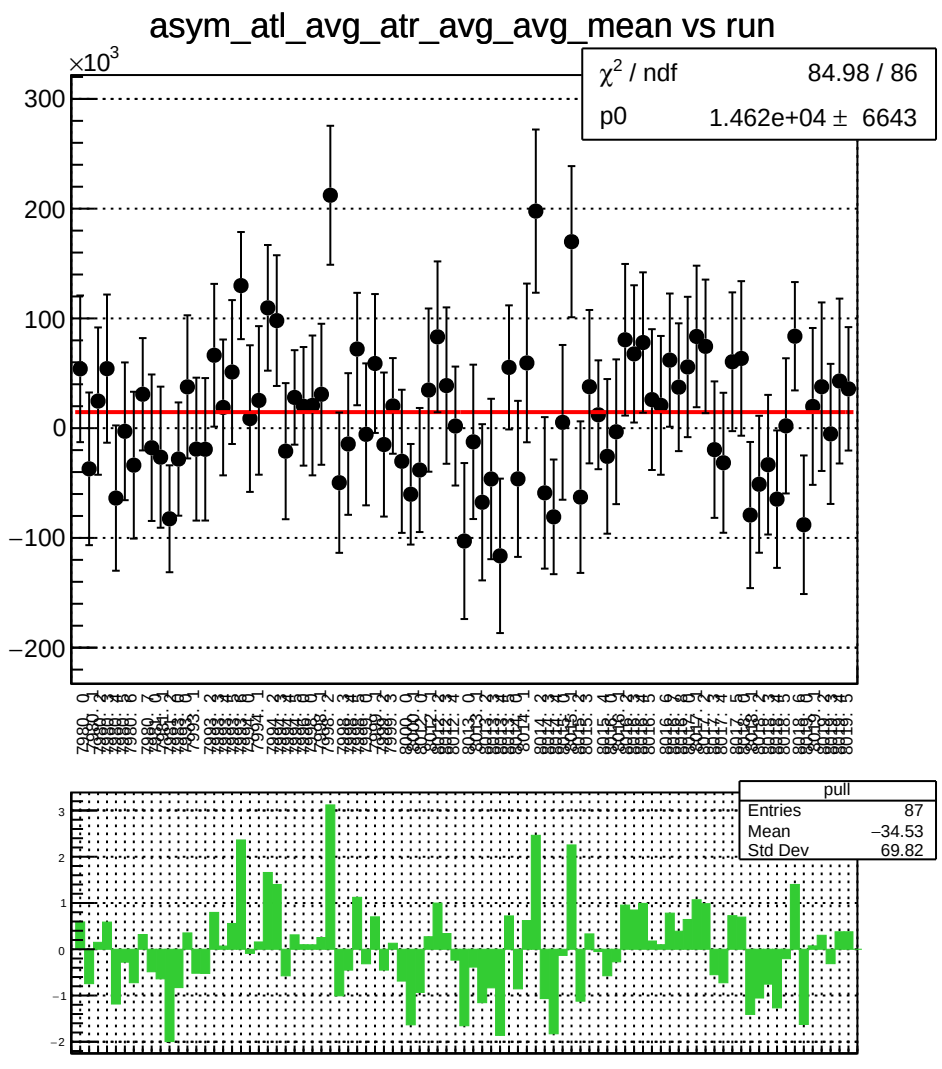

pull1D
Entries 87
Mean −0.01109
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

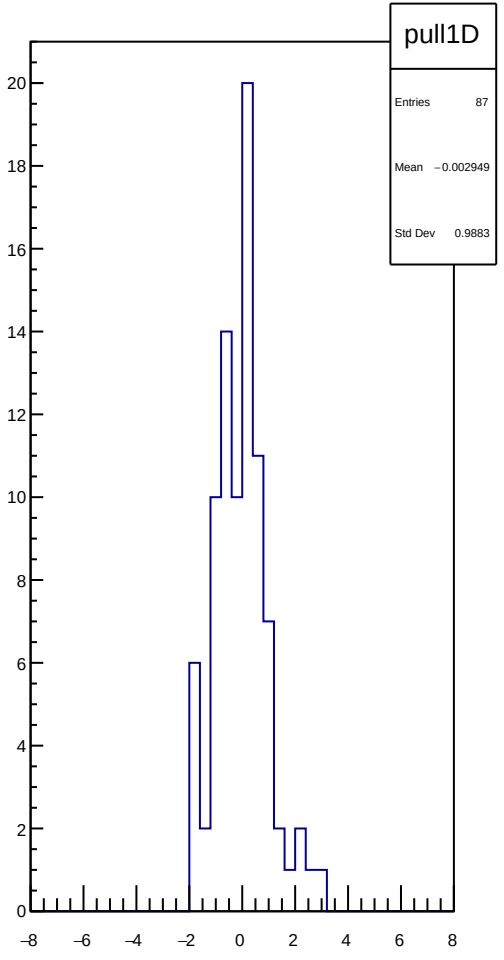

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2190 / 86
p0 1333 ± 1.005
1800
1700
1600
1500
1400
1300

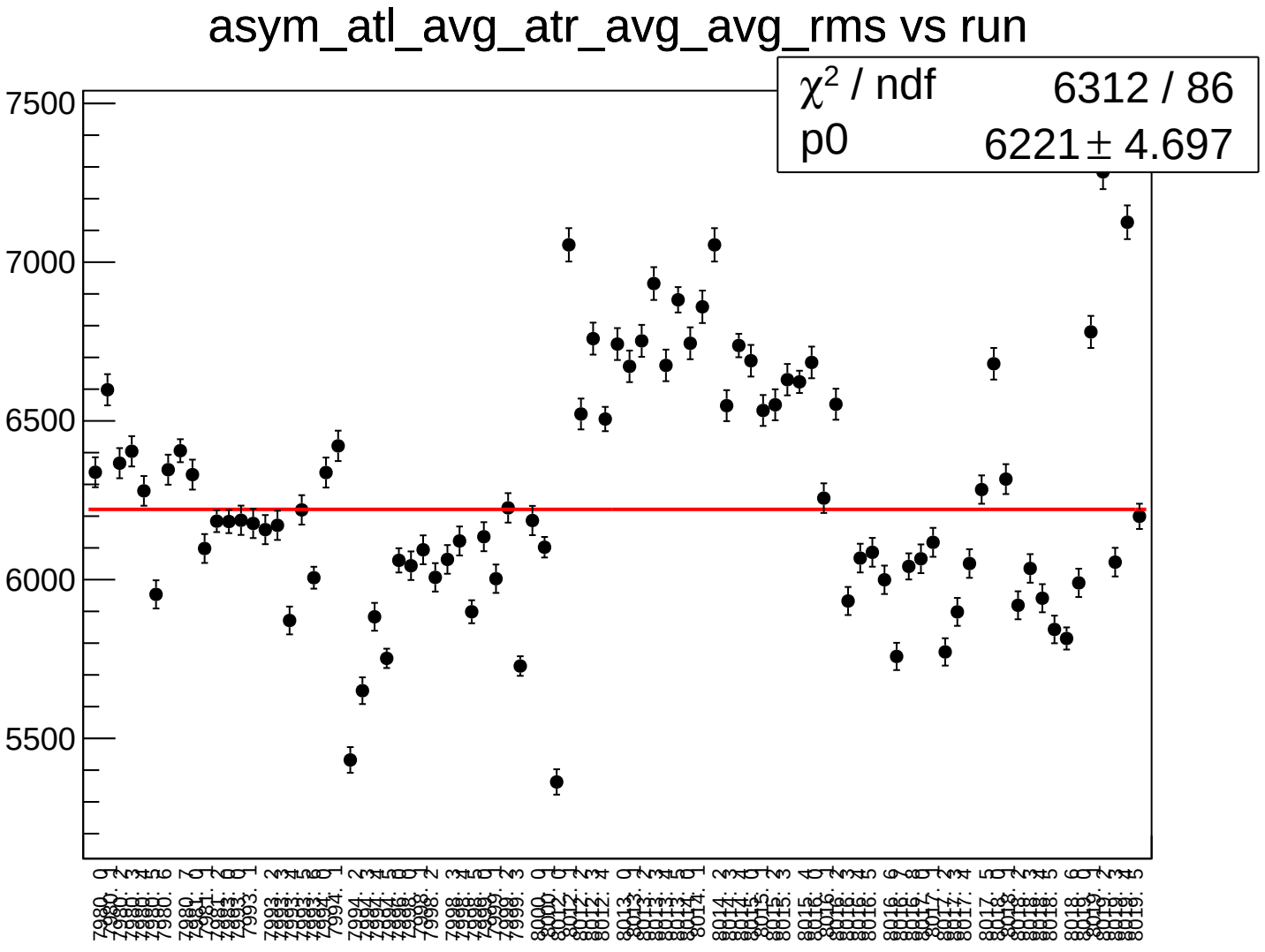

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.9 / 86
p0 −1.319e+04 ± 6637
pull
Entries 87
Mean −17.53
Std Dev 41.54

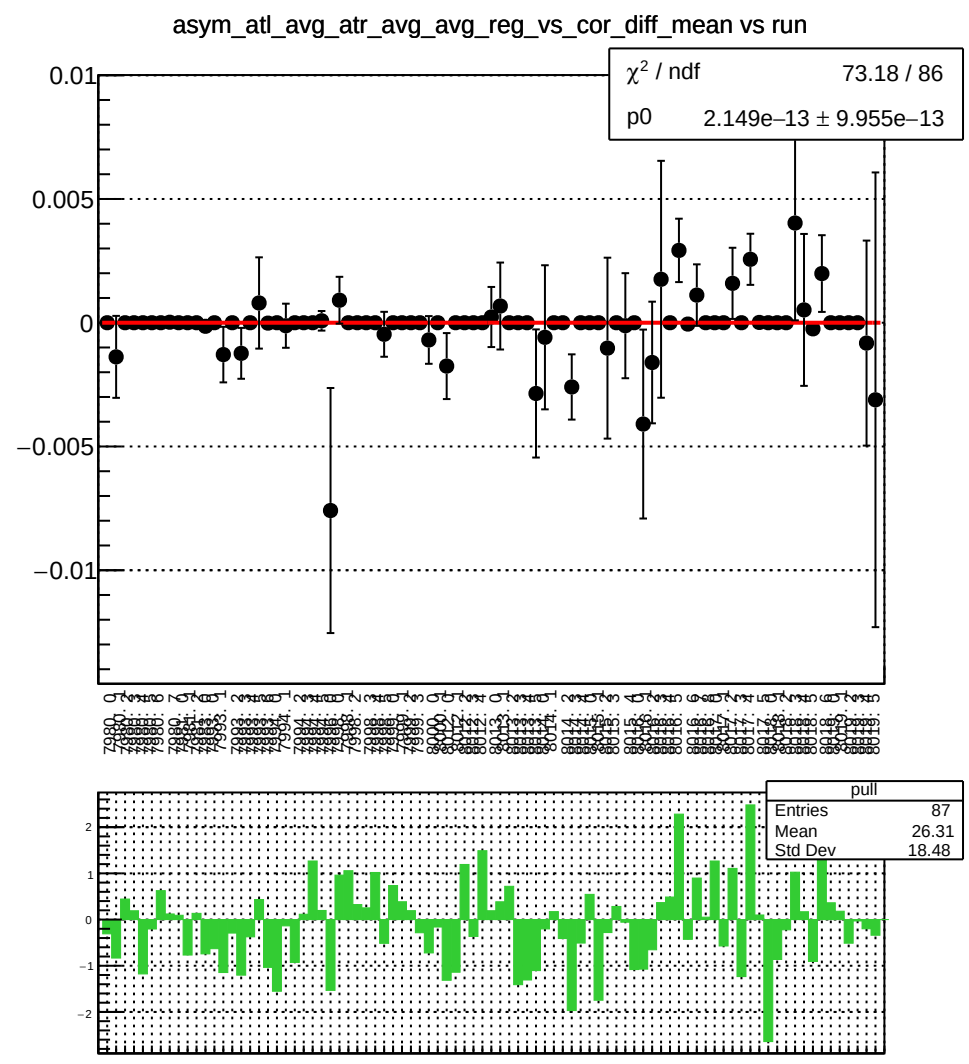

pull1D
Entries 87
Mean 0.005673
Std Dev 1.011

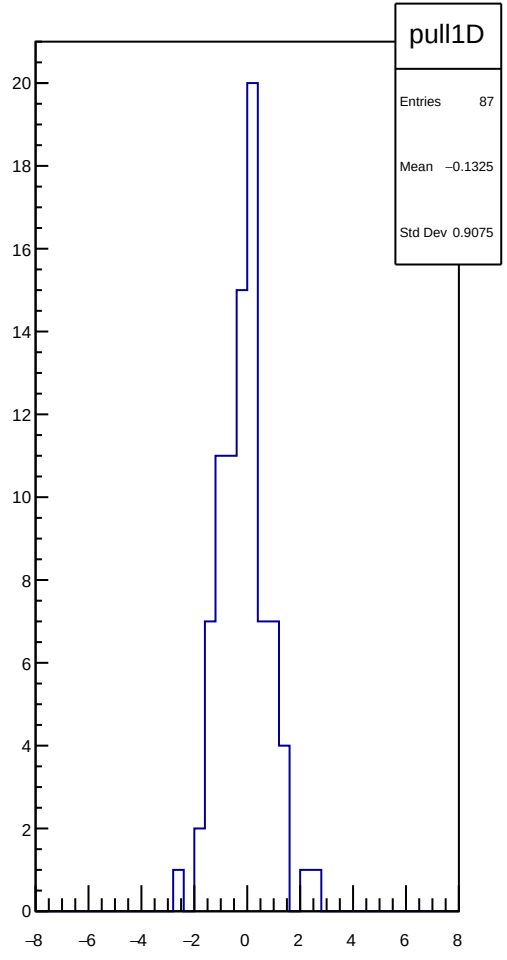

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7783 / 86
p0 6213 ± 4.693
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

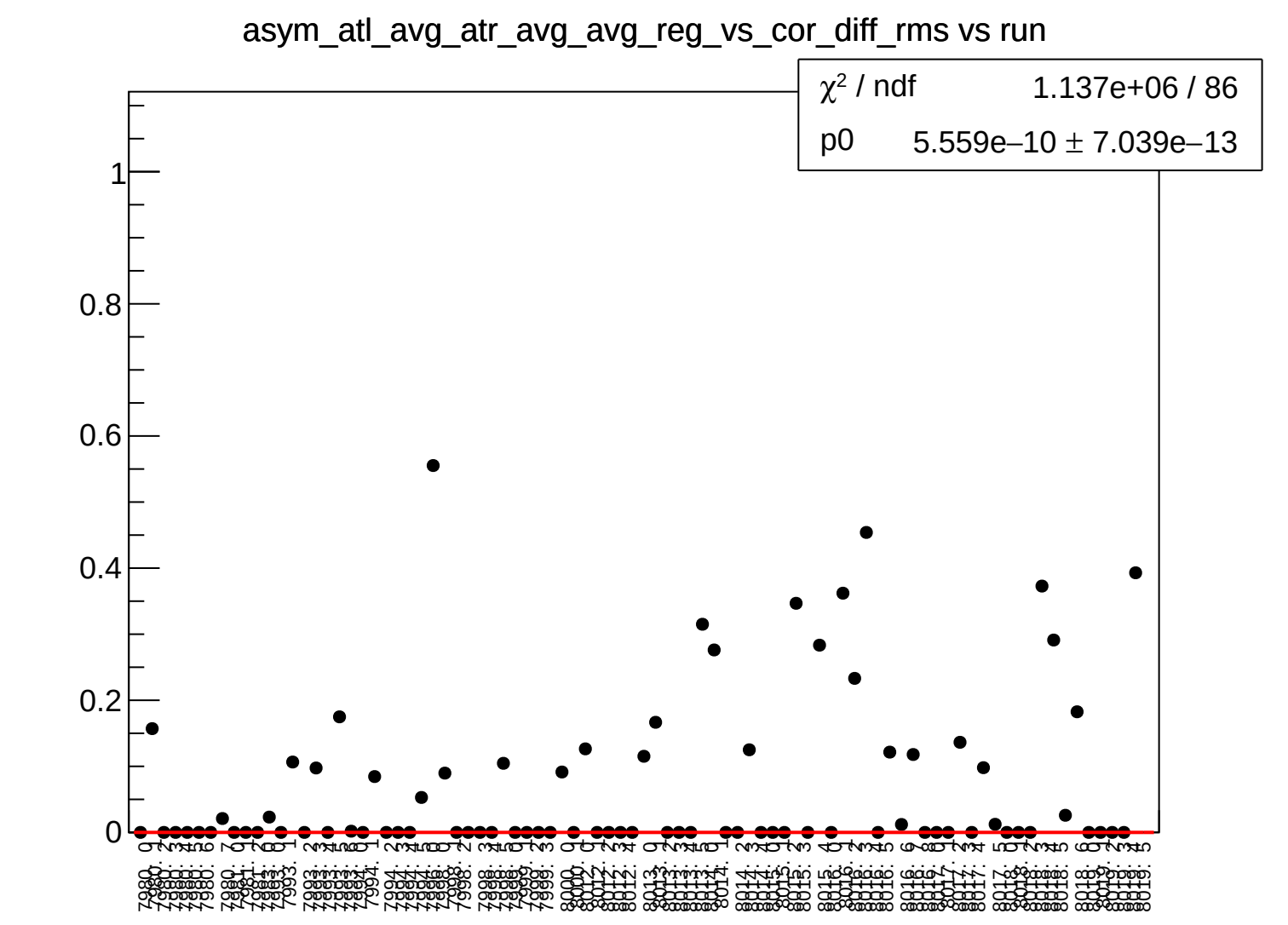

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 84.98 / 86
p0 1.462e+04 ± 6643
pull
Entries 87
Mean −34.53
Std Dev 69.82

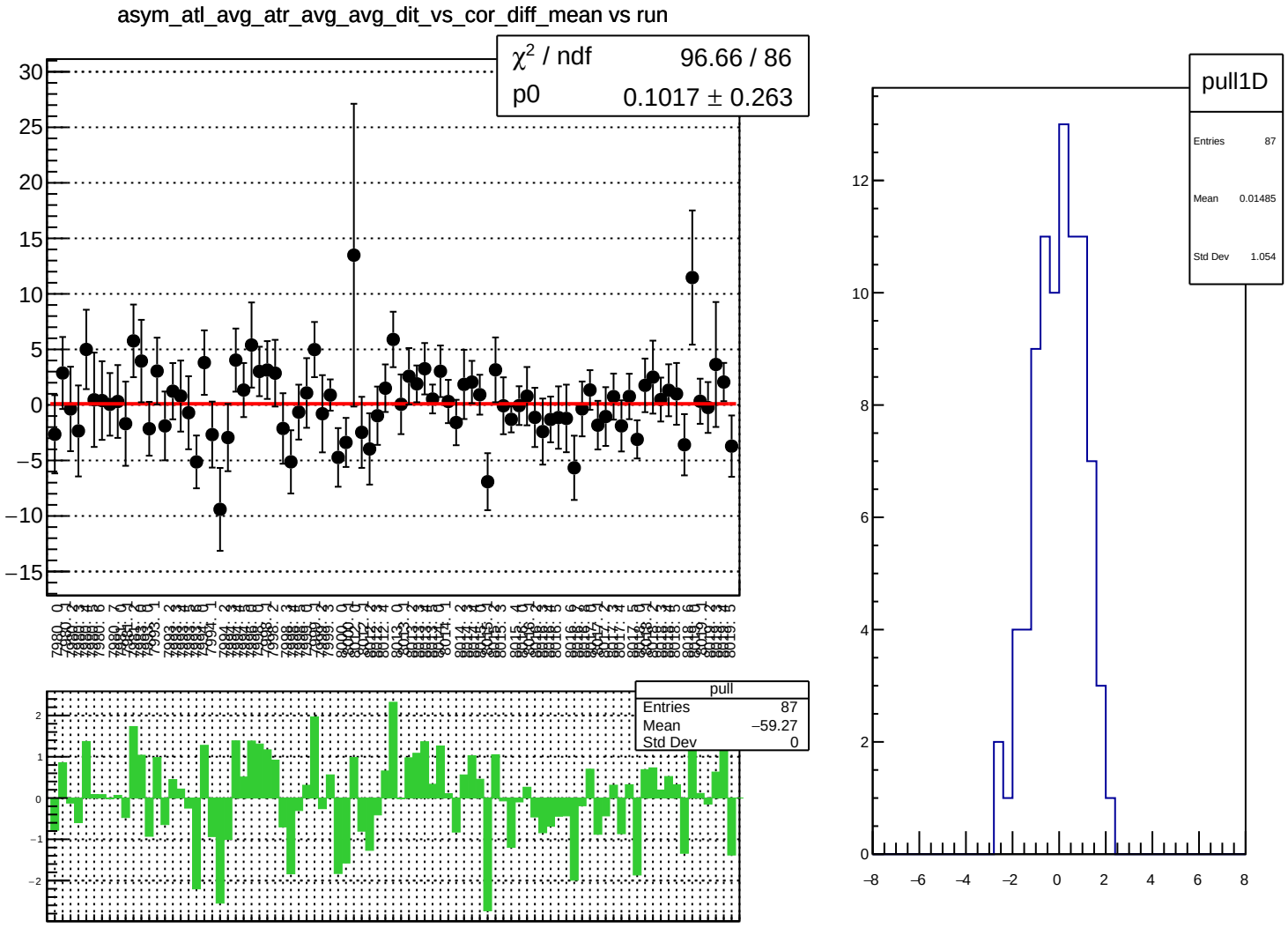

pull1D
Entries 87
Mean −0.002949
Std Dev 0.9883

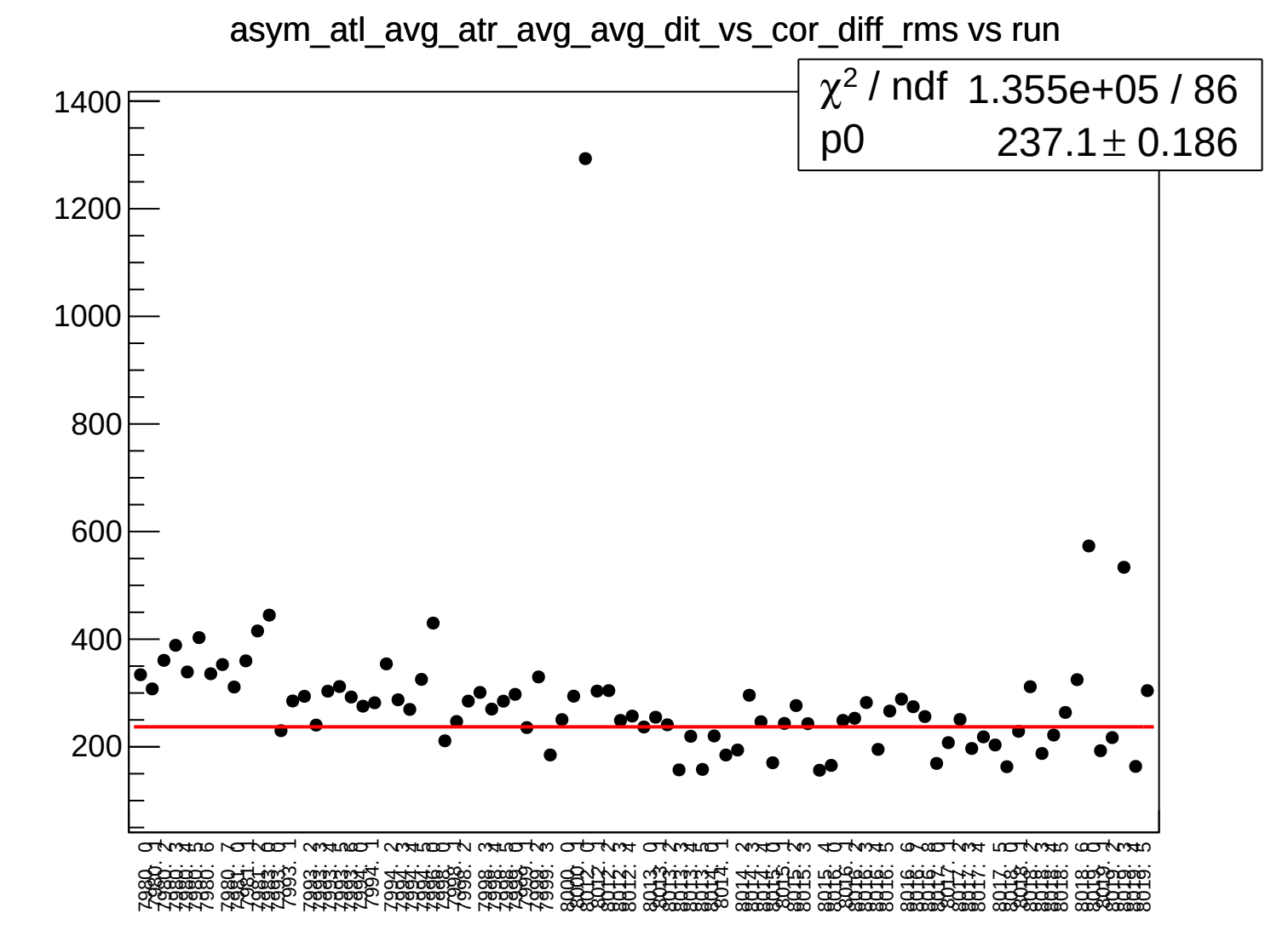

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6312 / 86
p0 6221 ± 4.697
7500
7000
6500
6000
5500

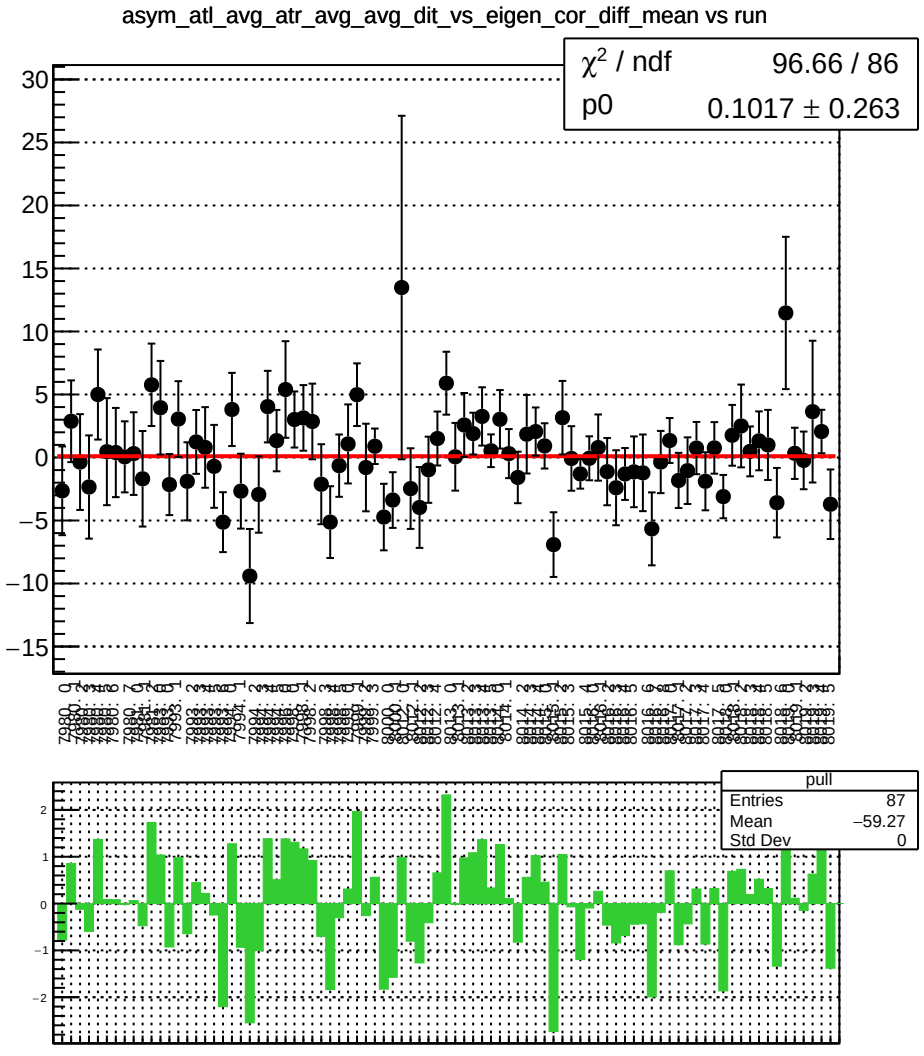

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.18 / 86
p0 2.149e−13 ± 9.955e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 26.31
Std Dev 18.48
2
1
0
−1
−2

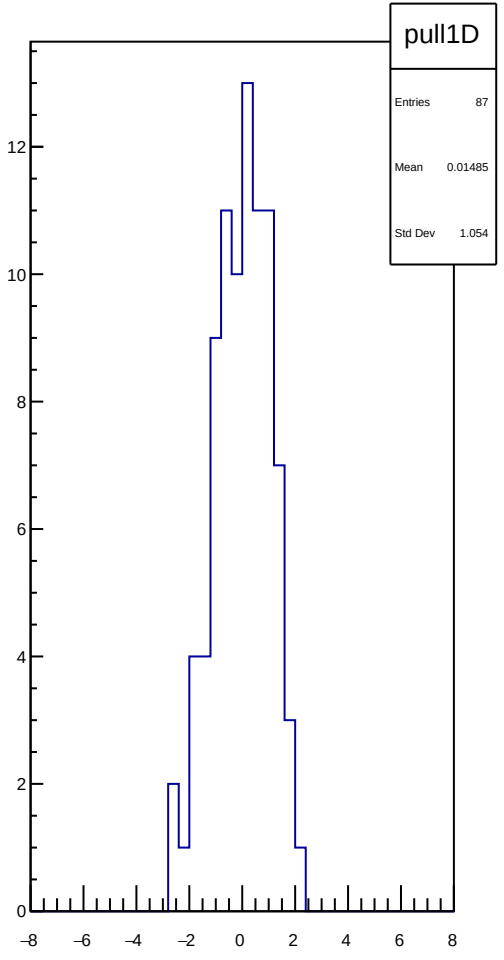

pull1D
Entries 87
Mean −0.1325
Std Dev 0.9075
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

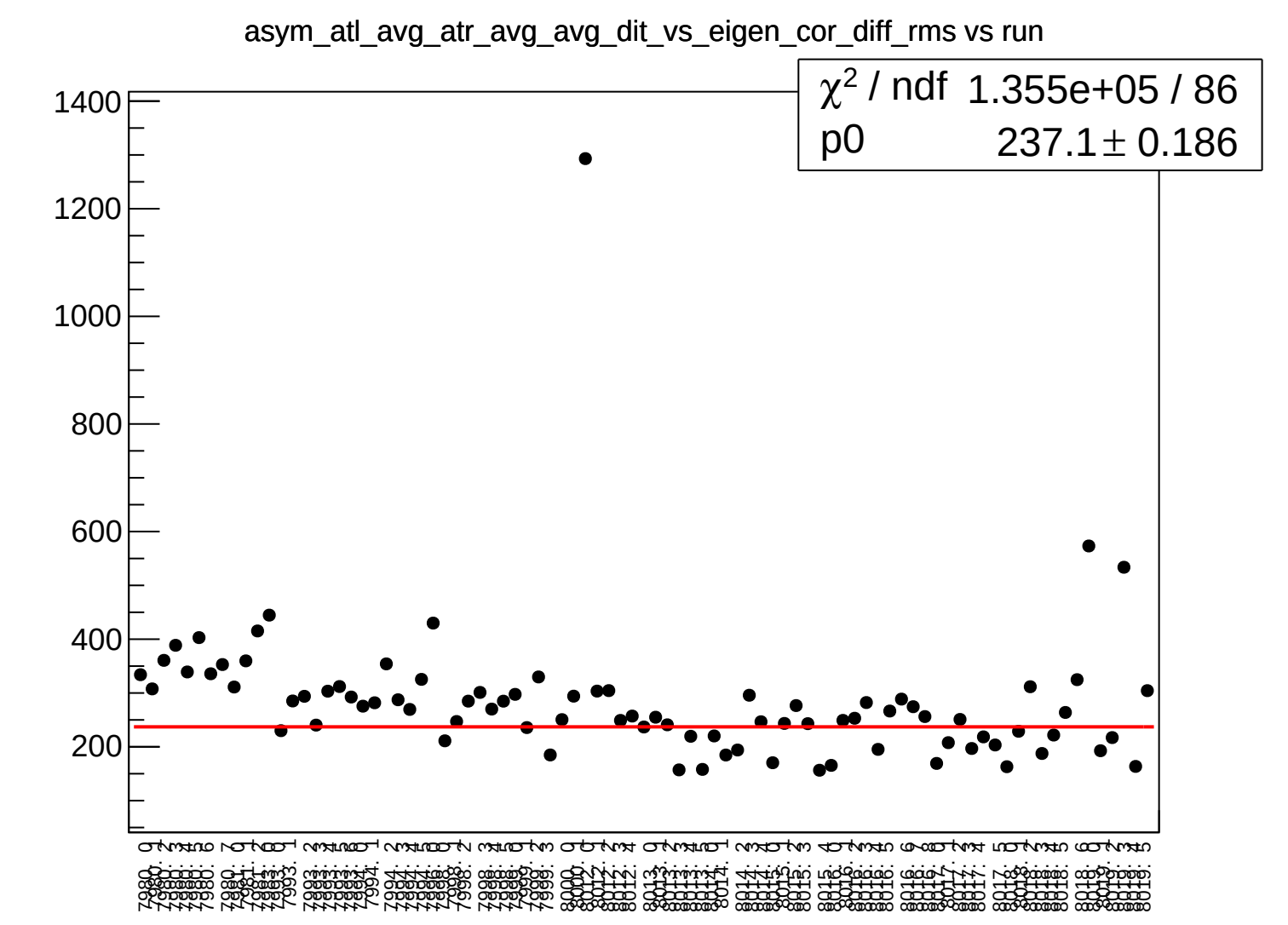

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.137e+06 / 86
p0 5.559e−10 ± 7.039e−13
1
0.8
0.6
0.4
0.2
0

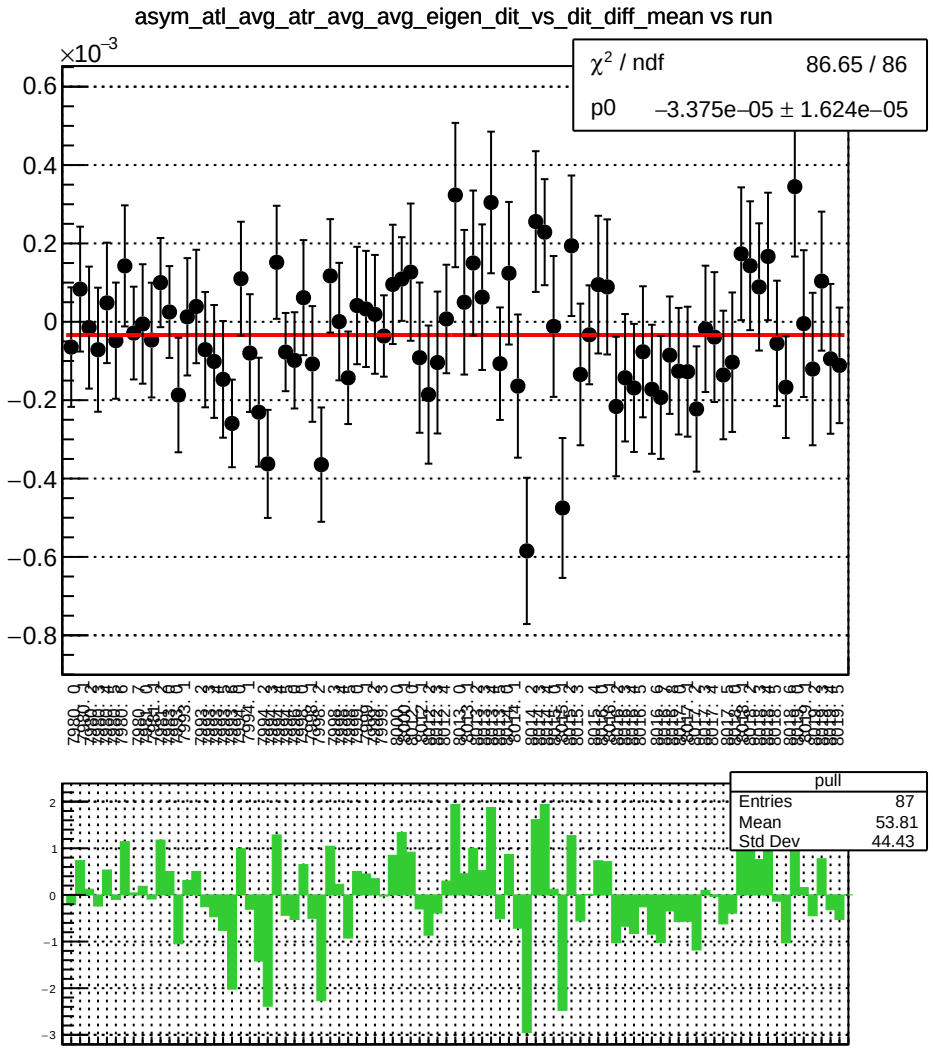

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.66 / 86
p0 0.1017 ± 0.263
pull
Entries 87
Mean −59.27
Std Dev 0
pull1D
Entries 87
Mean 0.01485
Std Dev 1.054

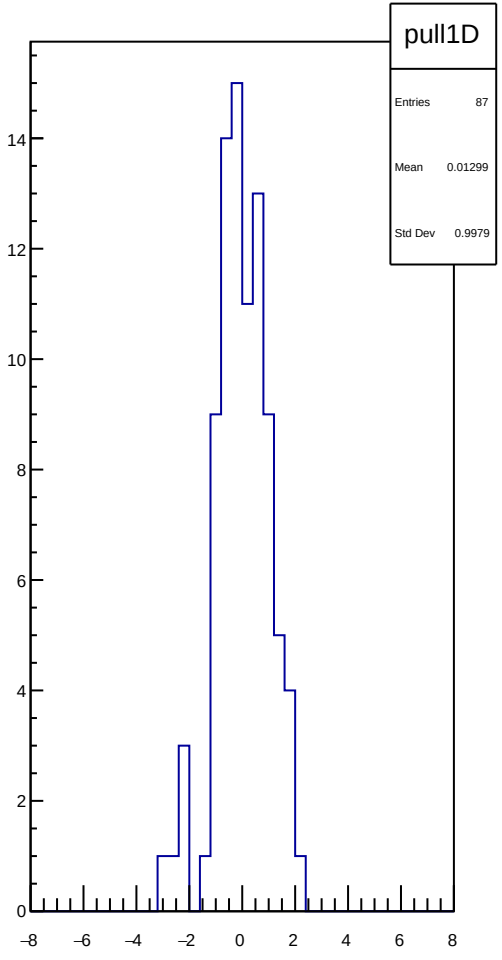

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 86
p0 237.1 ± 0.186
1400
1200
1000
800
600
400
200

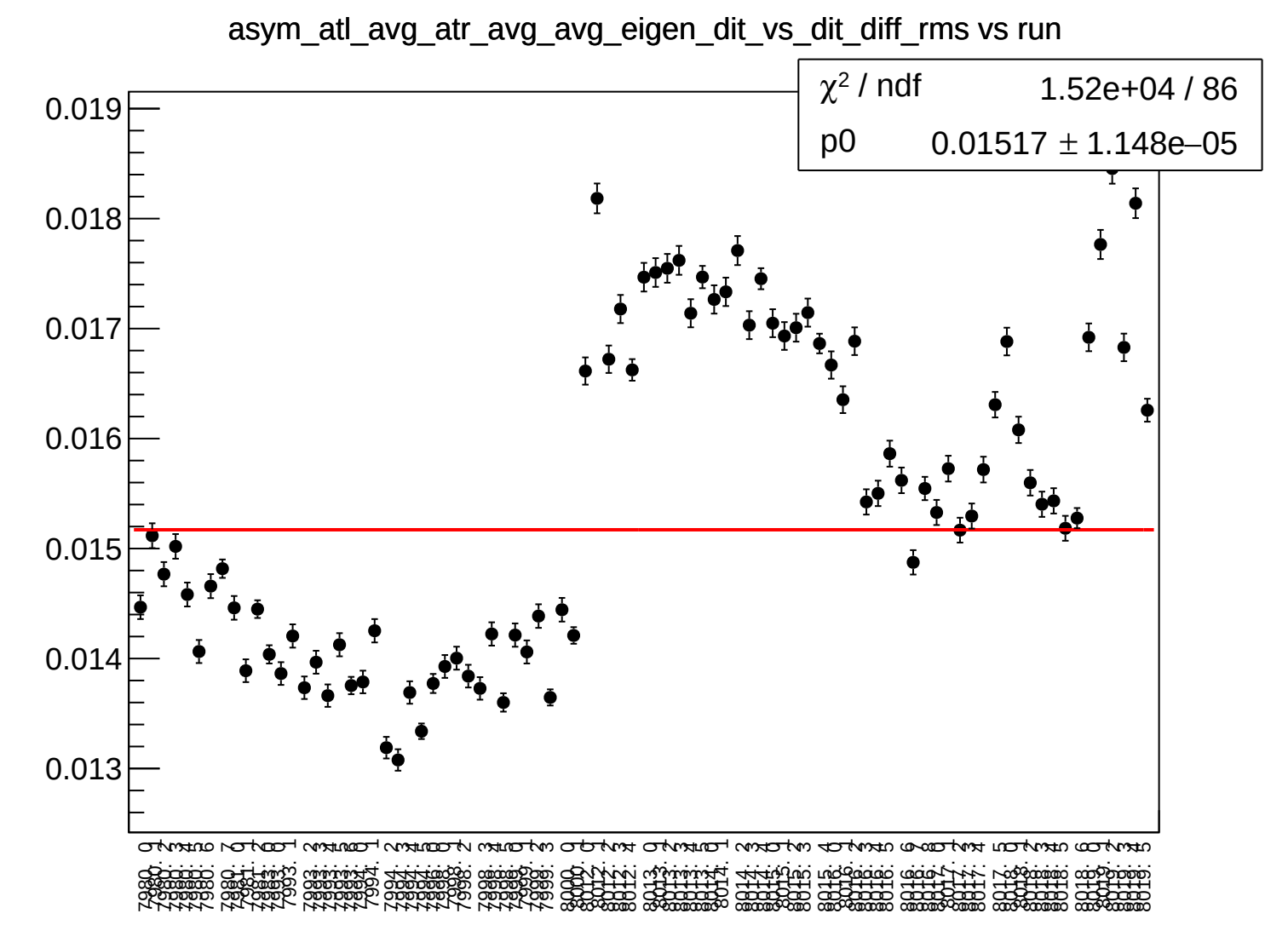

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.66 / 86
p0 0.1017 ± 0.263
pull
Entries 87
Mean −59.27
Std Dev 0

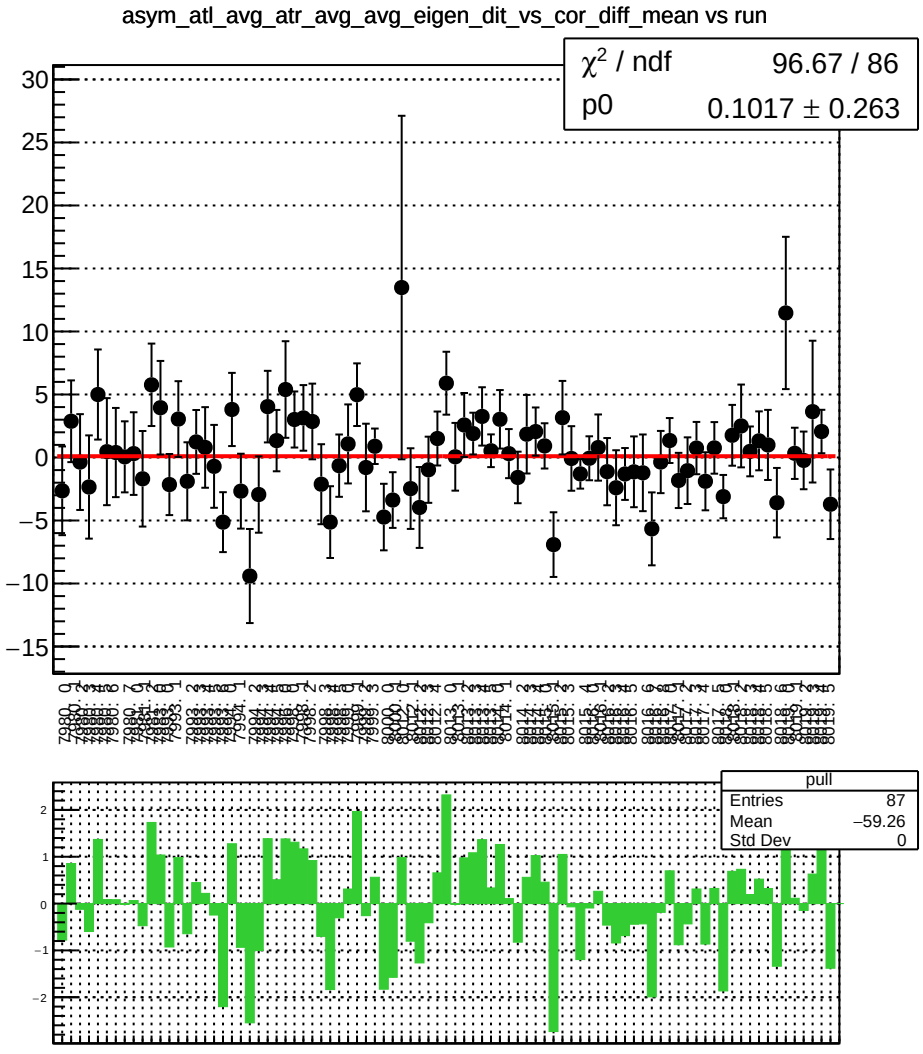

pull1D
Entries 87
Mean 0.01485
Std Dev 1.054

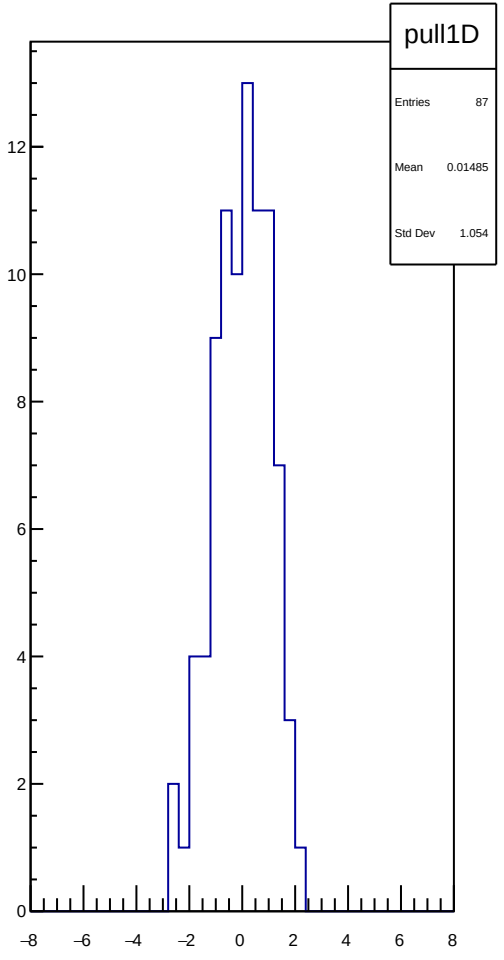

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 86
p0 237.1 ± 0.186
1400
1200
1000
800
600
400
200

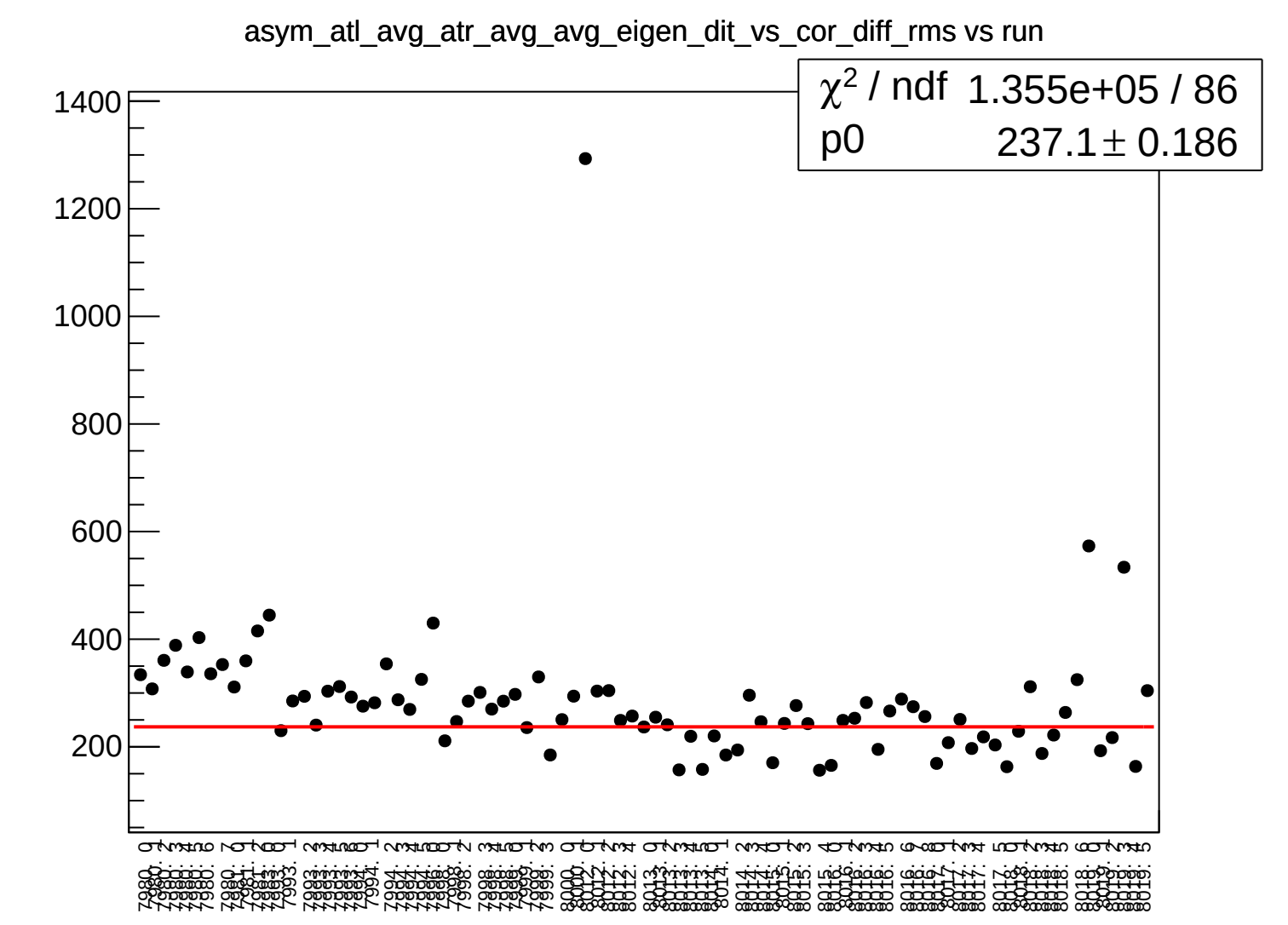

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.65 / 86
p0 −3.375e−05 ± 1.624e−05
pull
Entries 87
Mean 53.81
Std Dev 44.43

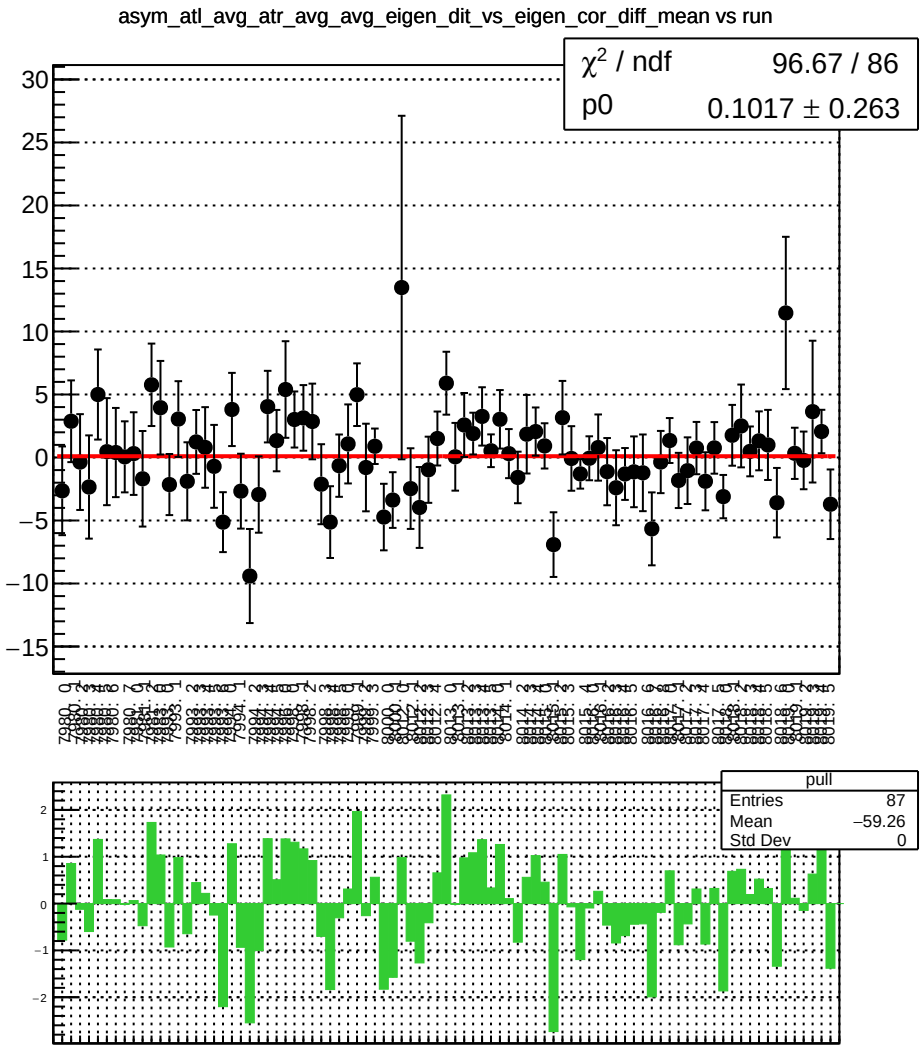

pull1D
Entries 87
Mean 0.01299
Std Dev 0.9979

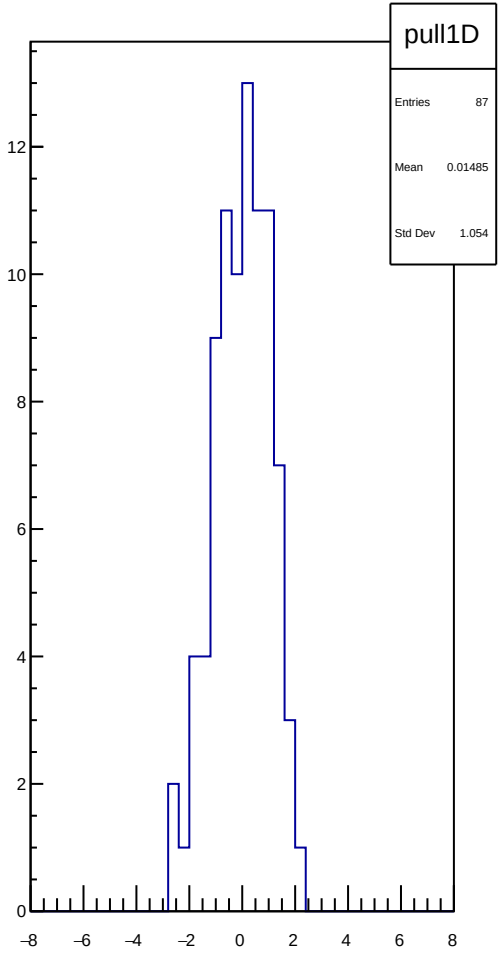

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.52e+04 / 86
p0 0.01517 ± 1.148e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013

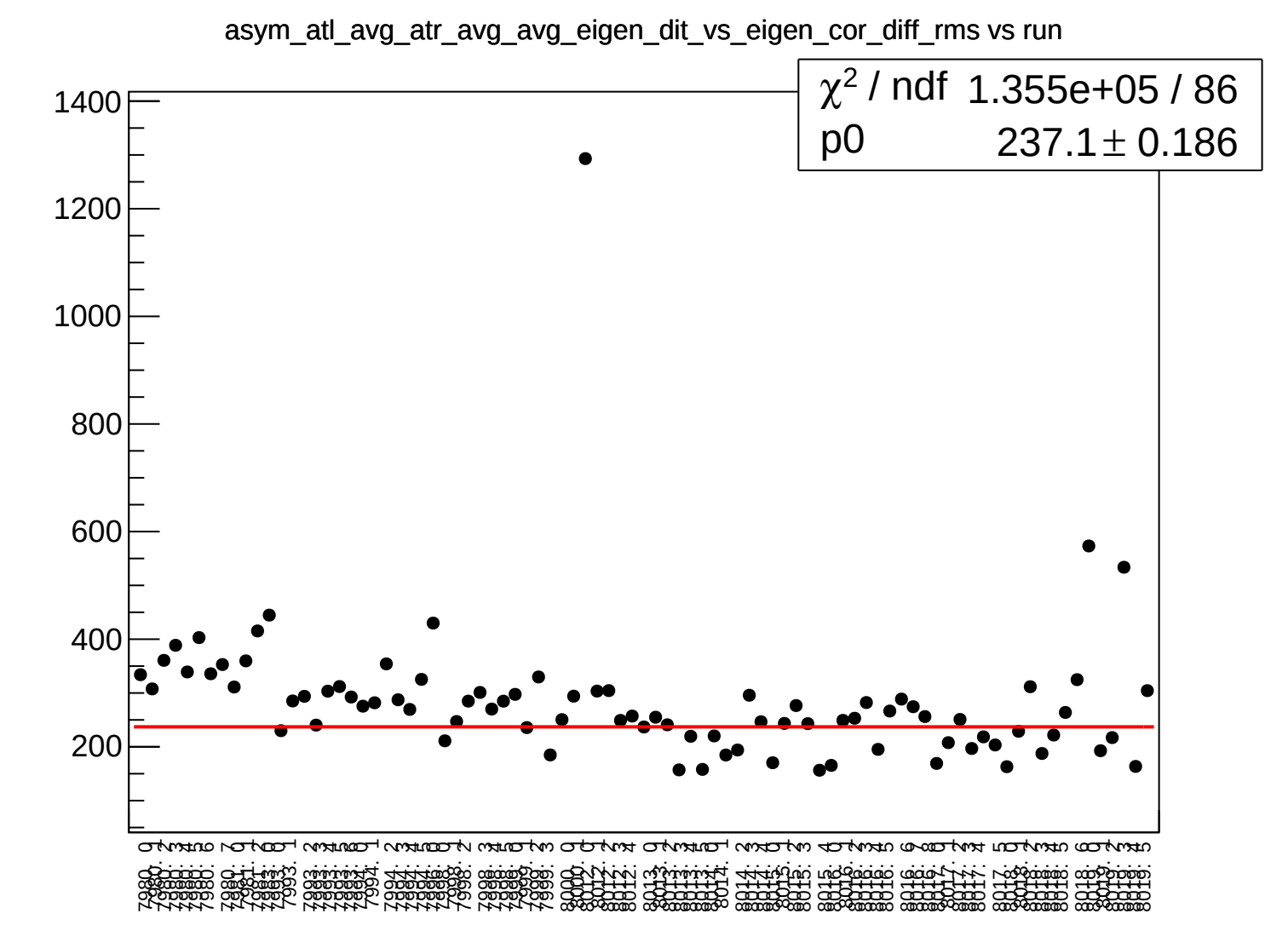

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.67 / 86
p0 0.1017 ± 0.263
pull
Entries 87
Mean −59.26
Std Dev 0

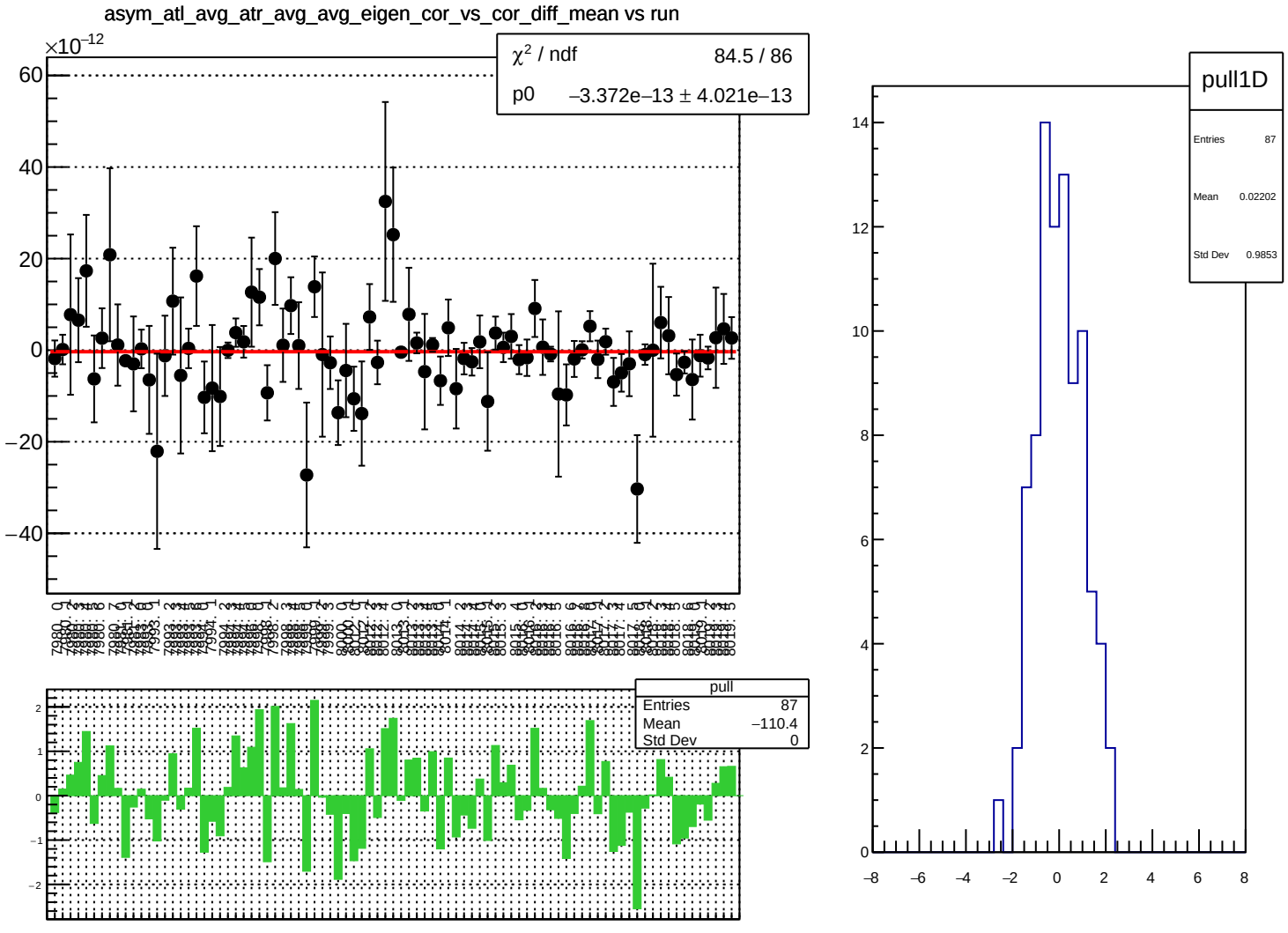

pull1D
Entries 87
Mean 0.01485
Std Dev 1.054

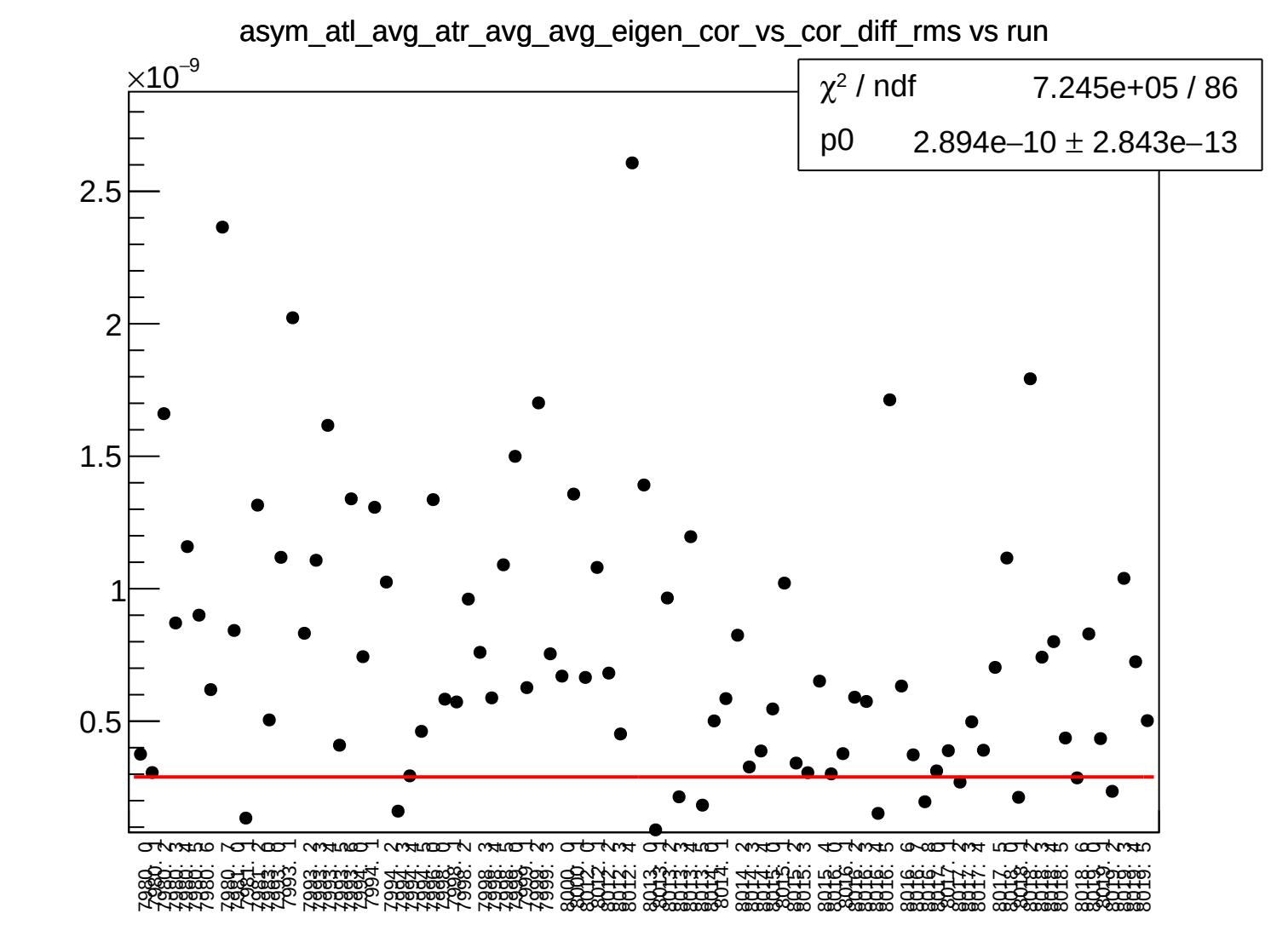

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 86
p0 237.1 ± 0.186
1400
1200
1000
800
600
400
200

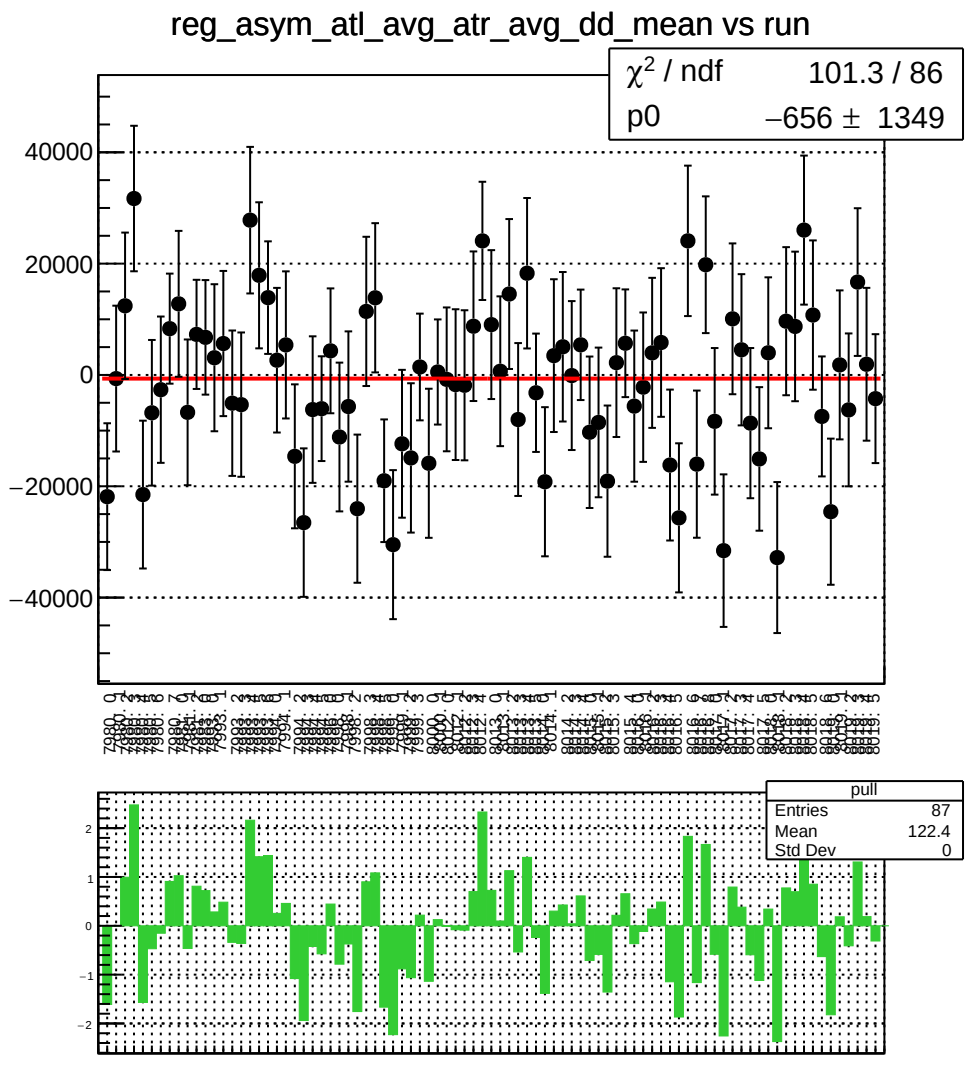

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.67 / 86
p0 0.1017 ± 0.263
pull
Entries 87
Mean −59.26
Std Dev 0

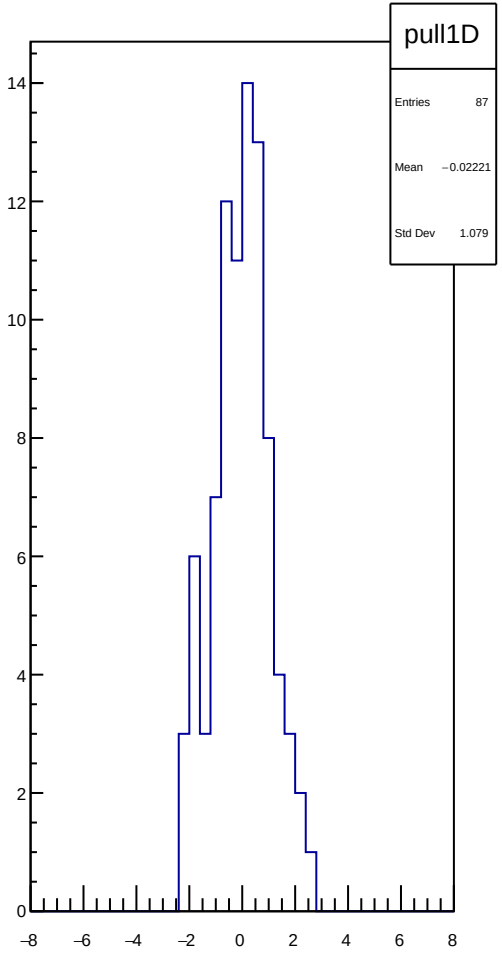

pull1D
Entries 87
Mean 0.01485
Std Dev 1.054

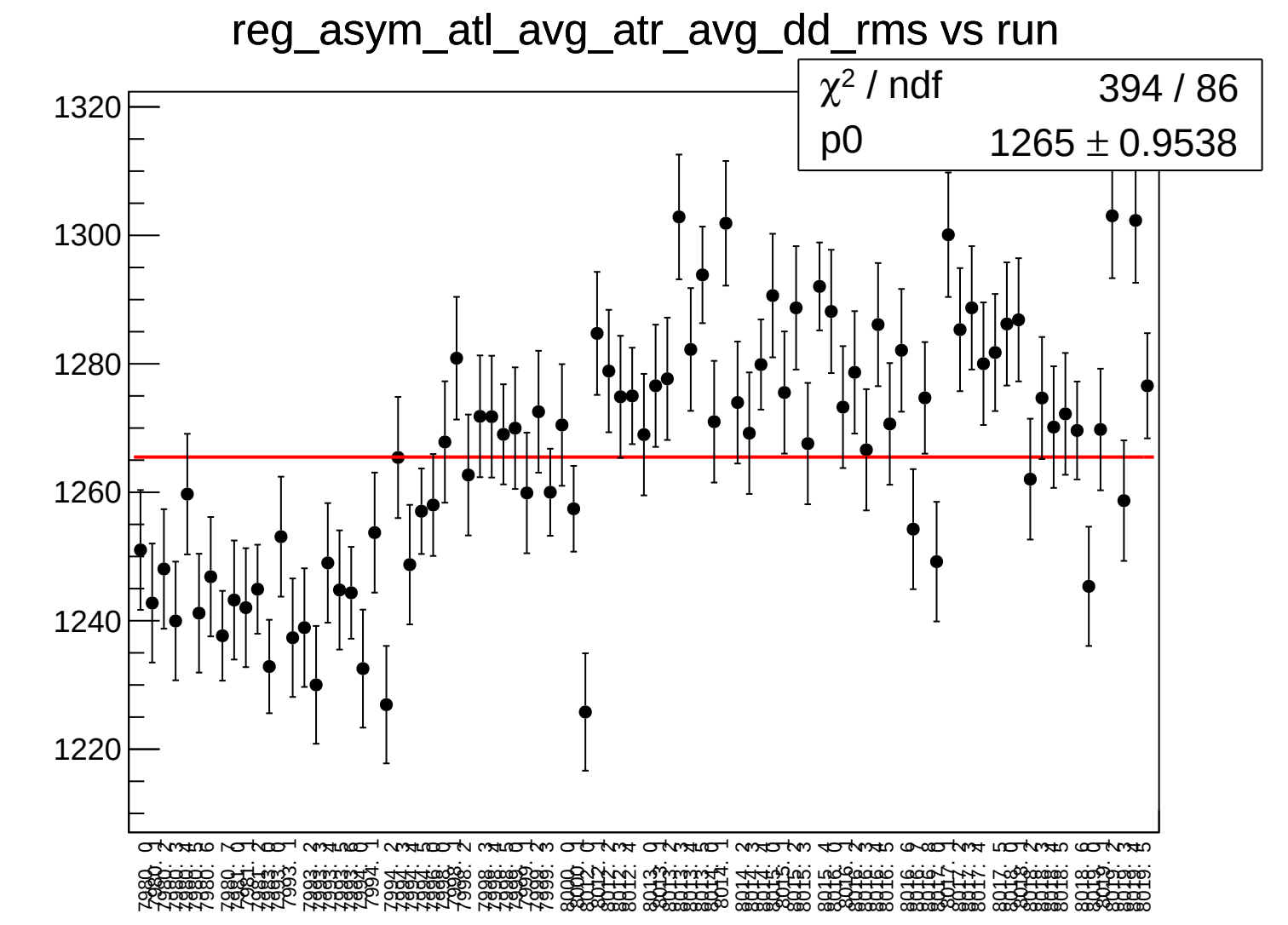

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 86
p0 237.1 ± 0.186
1400
1200
1000
800
600
400
200

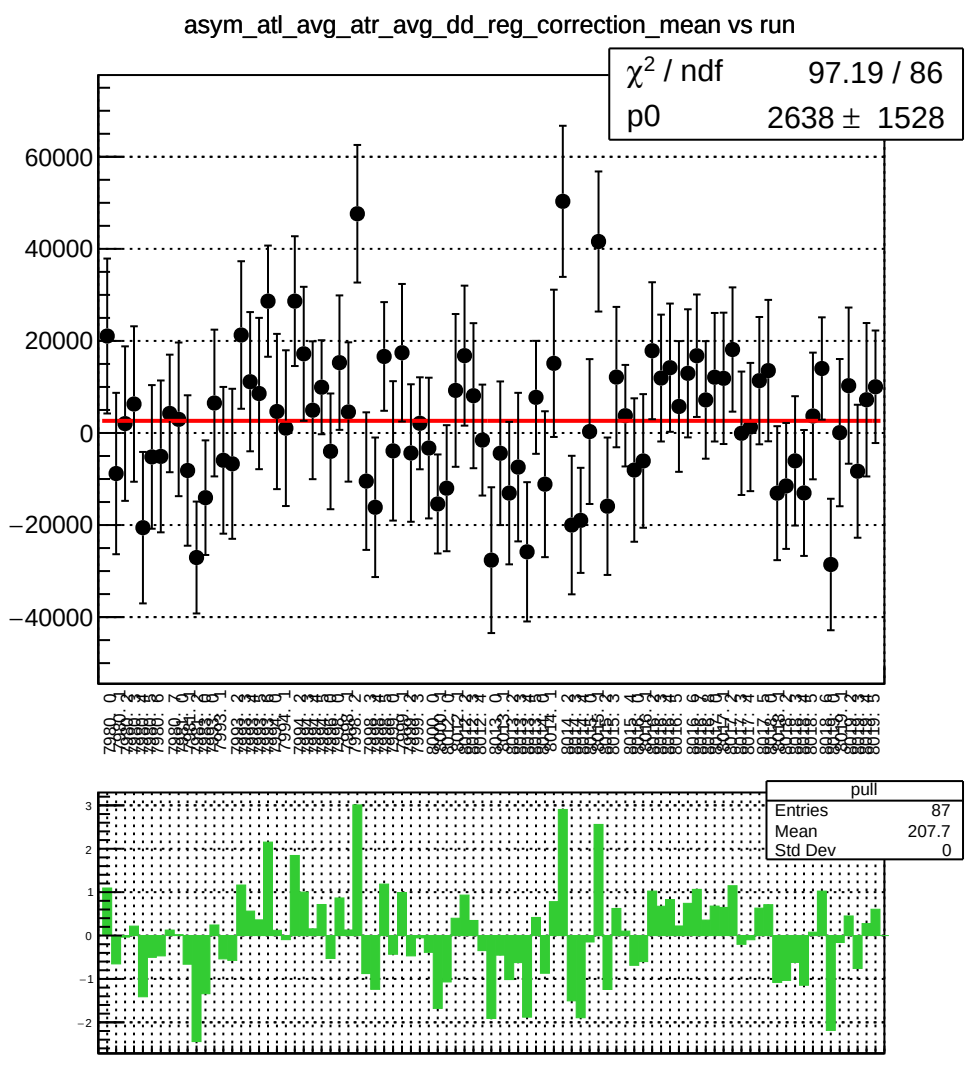

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.5 / 86
p0 −3.372e−13 ± 4.021e−13
pull
Entries 87
Mean −110.4
Std Dev 0
pull1D
Entries 87
Mean 0.02202
Std Dev 0.9853

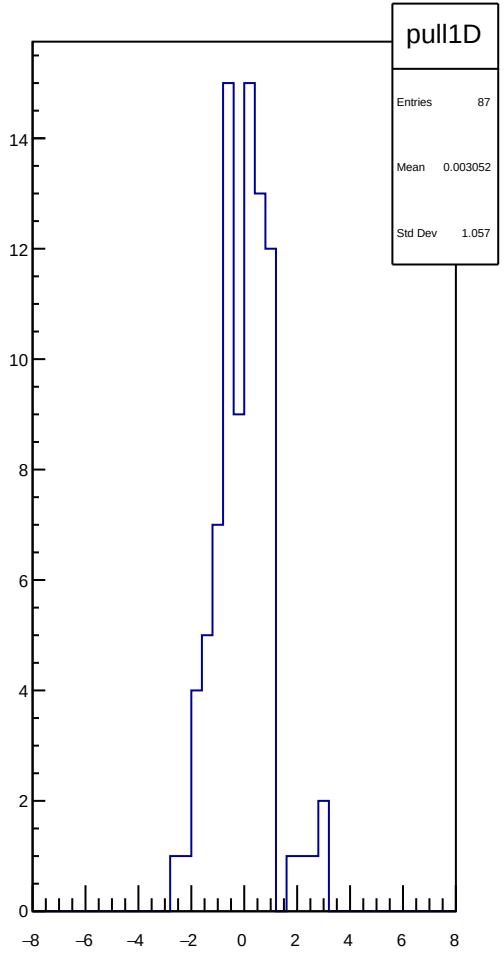

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.245e+05 / 86
p0 2.894e−10 ± 2.843e−13
2.5
2
1.5
1
0.5

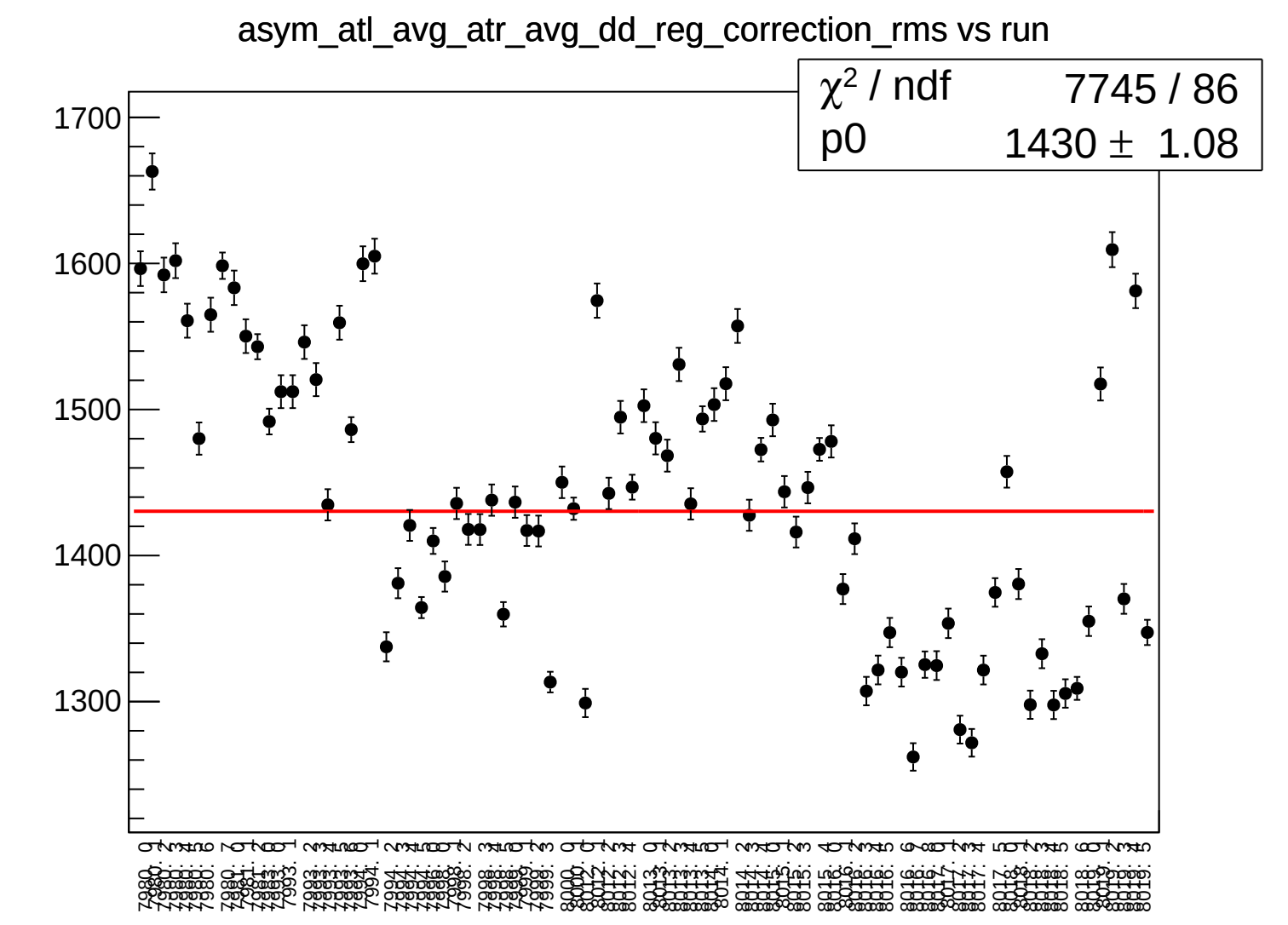

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.3 / 86
p0 −656 ± 1349
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 122.4
Std Dev 0
2
1
0
−1
−2

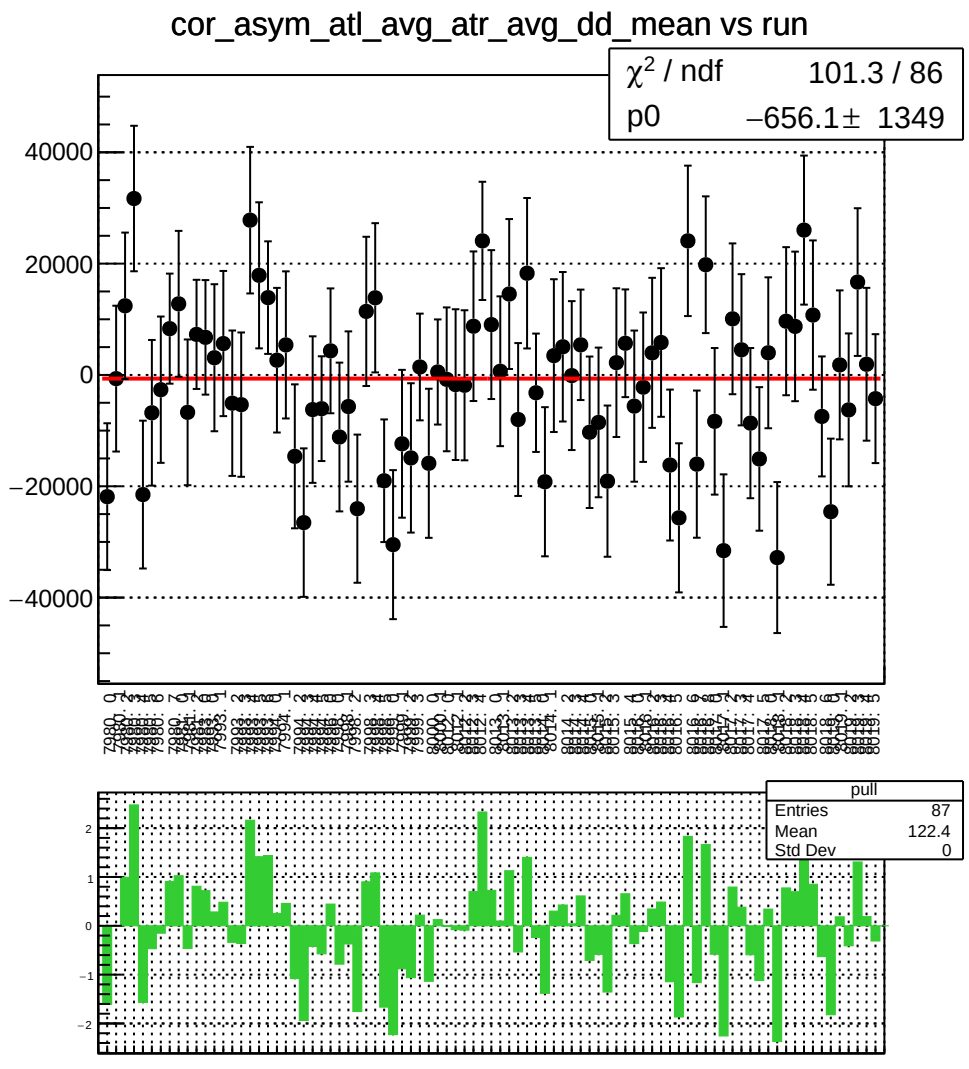

pull1D
Entries 87
Mean −0.02221
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

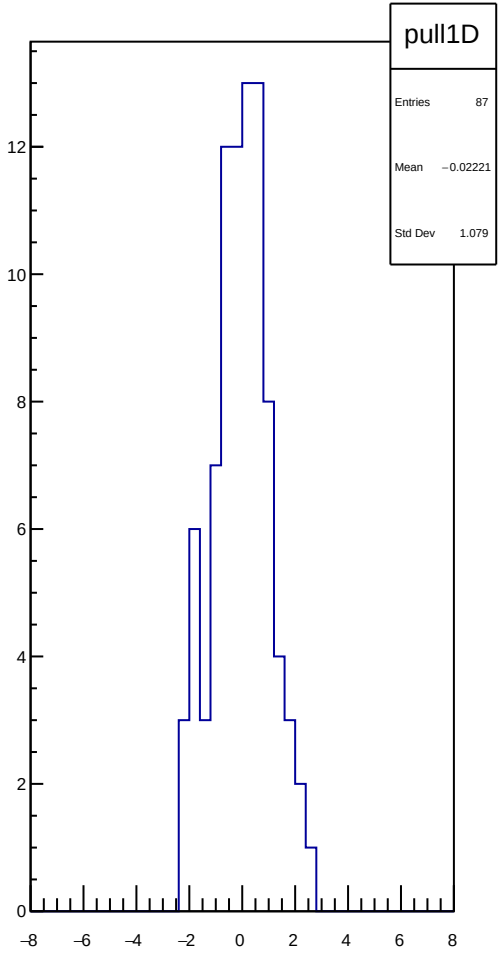

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 394 / 86
p0 1265 ± 0.9538
1320
1300
1280
1260
1240
1220

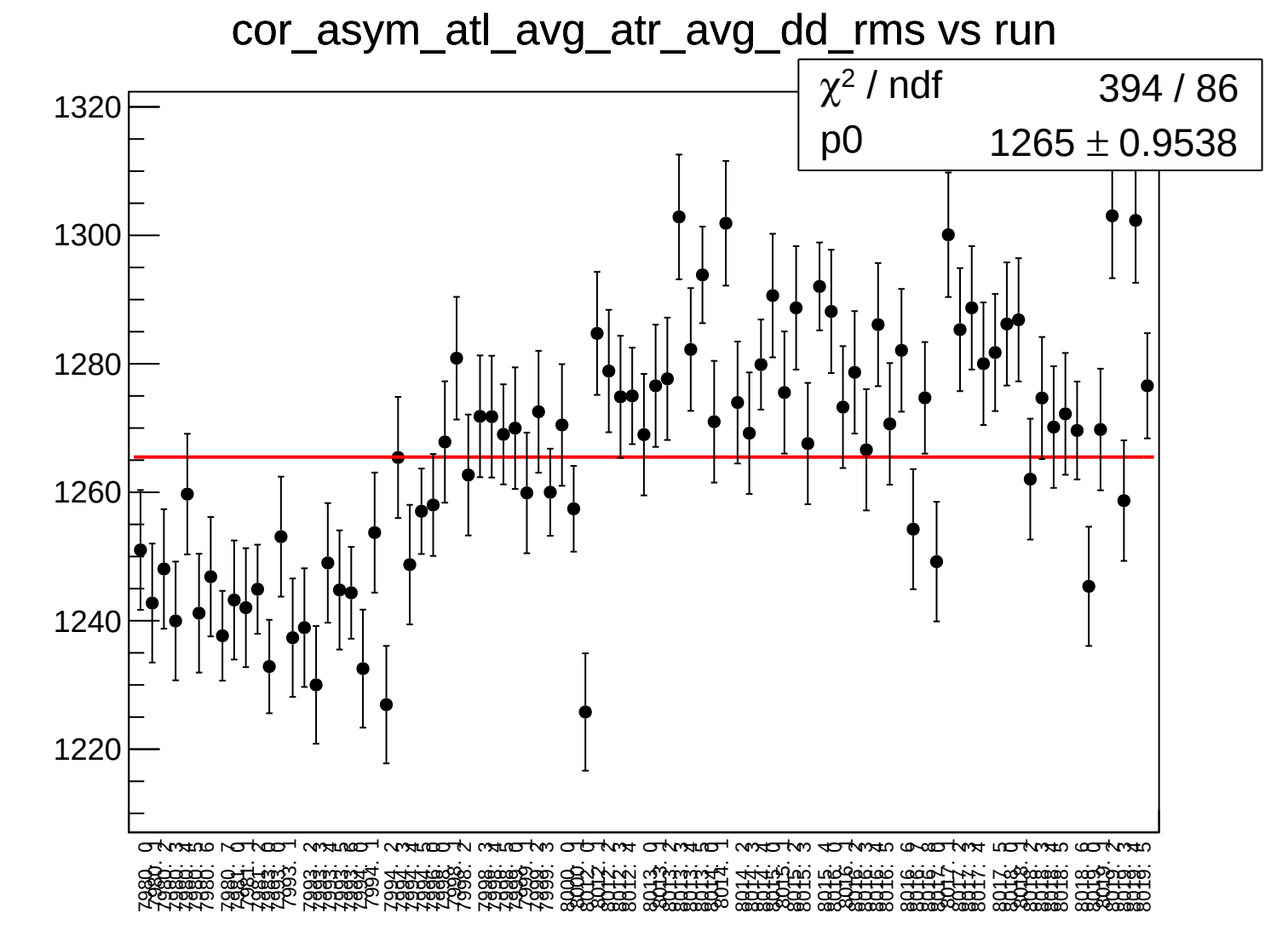

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 97.19 / 86
p0 2638 ± 1528
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 207.7
Std Dev 0
3
2
1
0
−1
−2

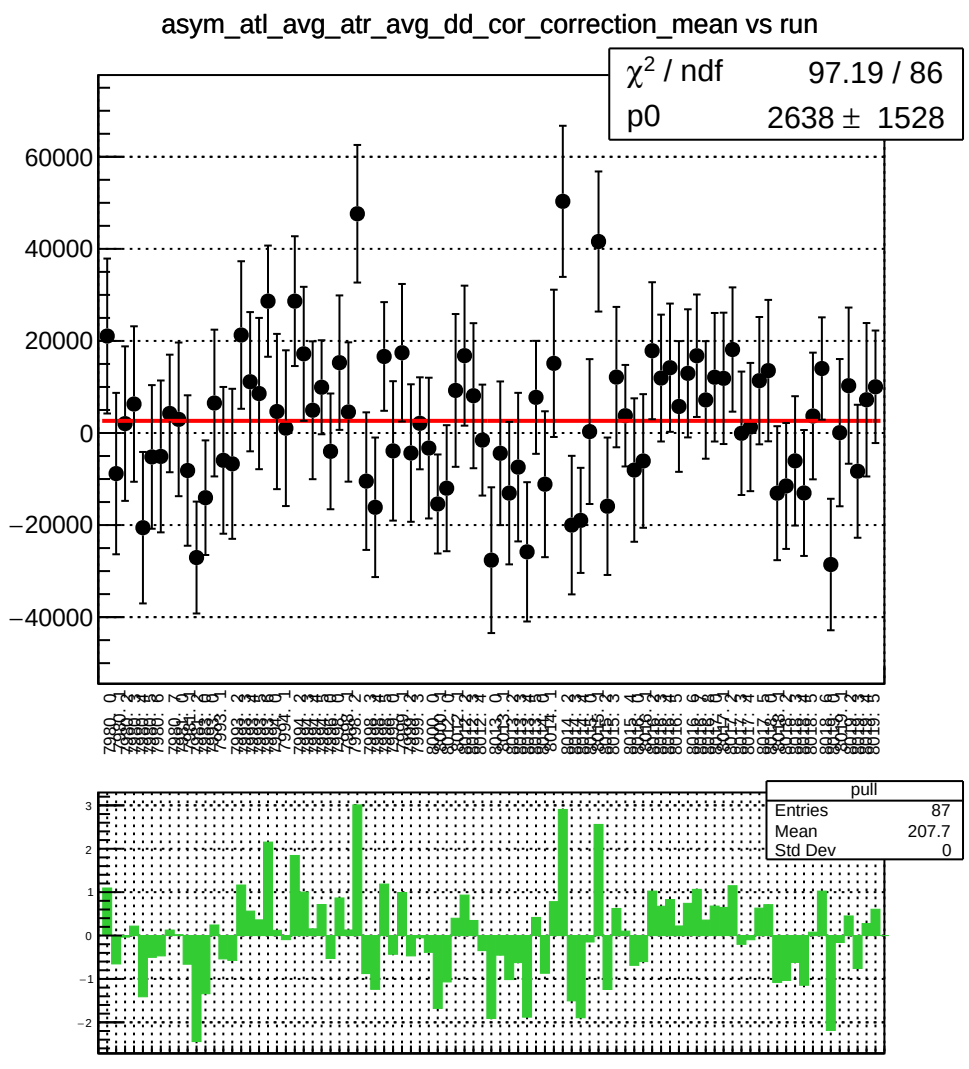

pull1D
Entries 87
Mean 0.003052
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

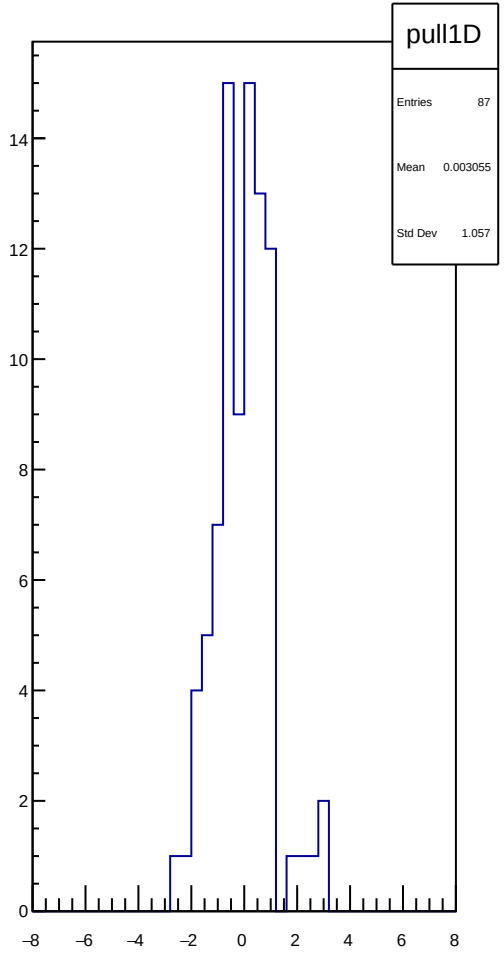

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 7745 / 86
p0 1430 ± 1.08
1700
1600
1500
1400
1300

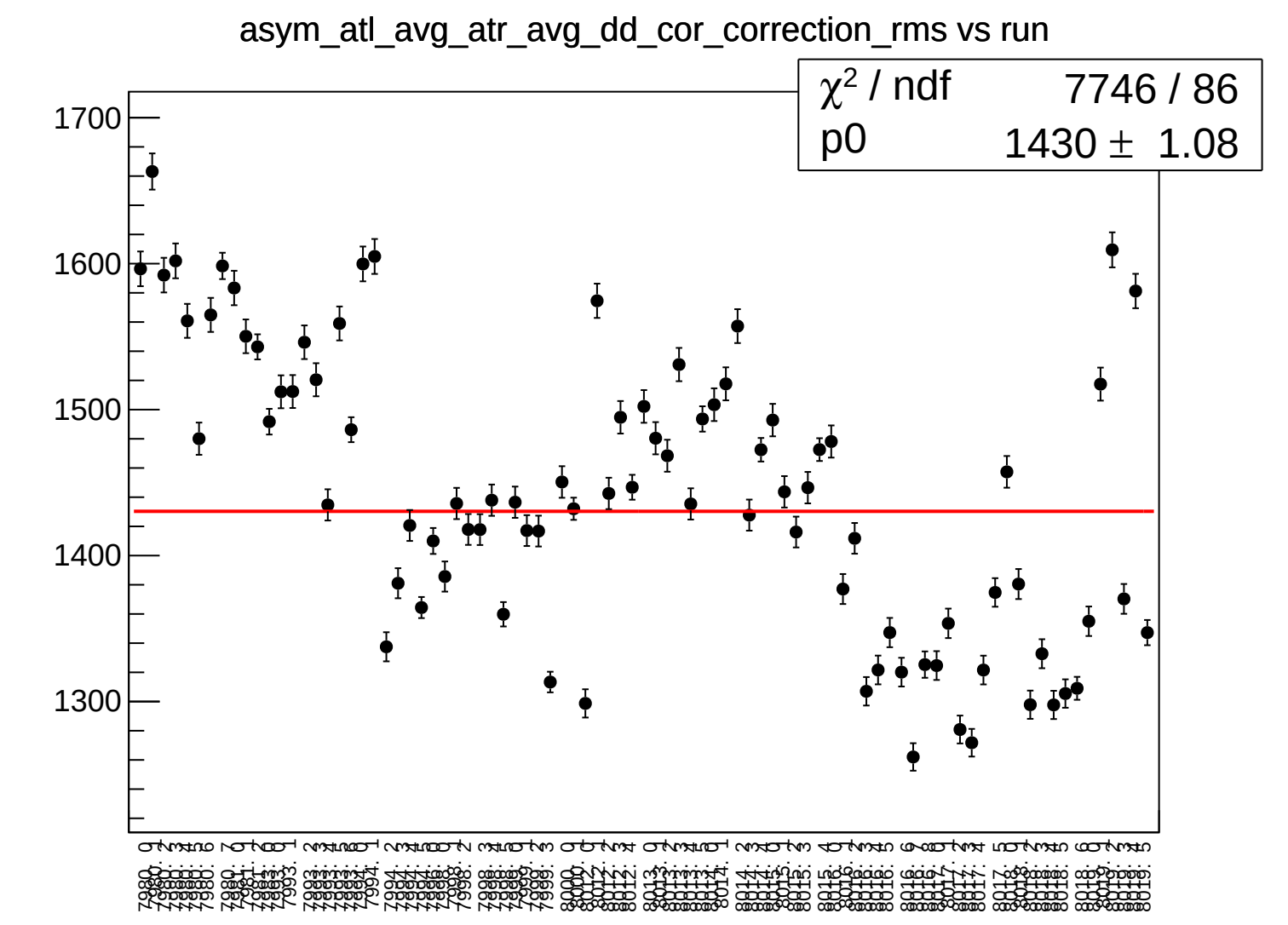

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.3 / 86
p0 −656.1± 1349
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 122.4
Std Dev 0
2
1
0
−1
−2

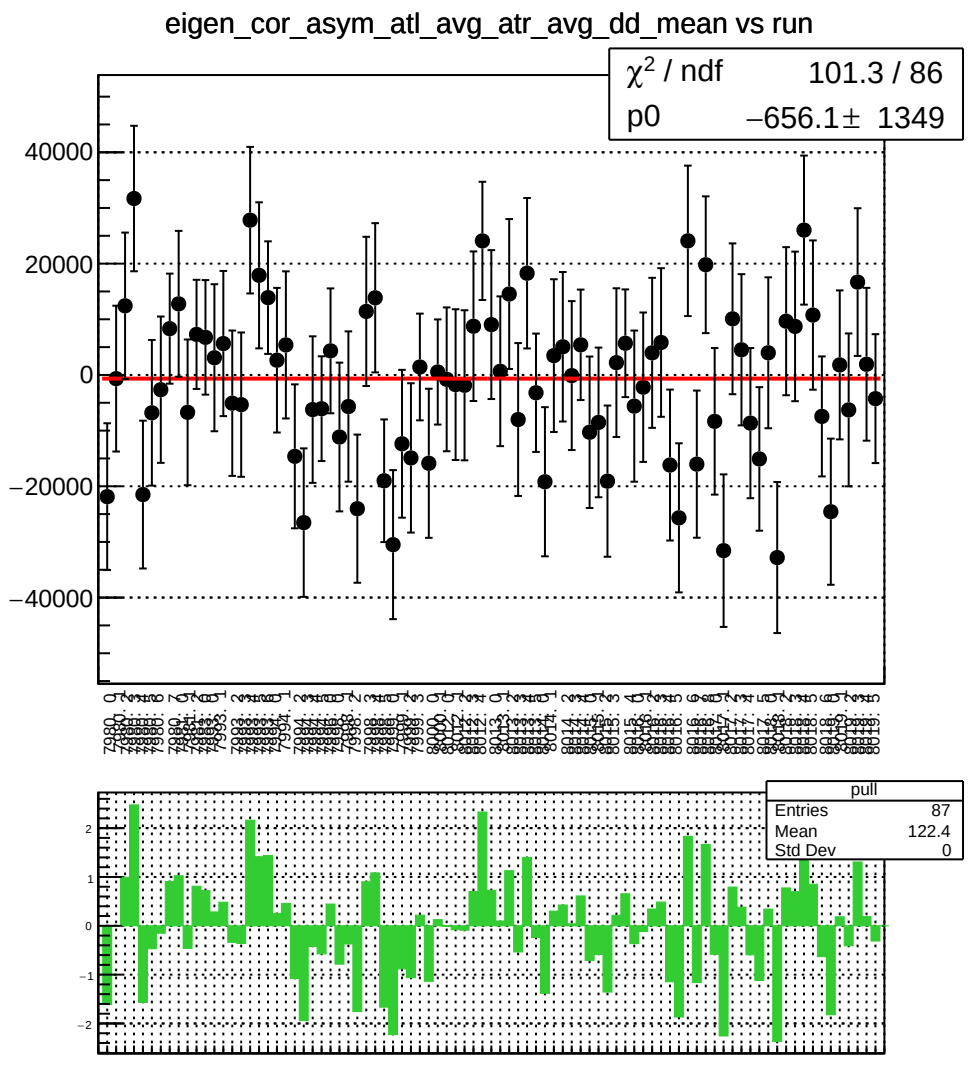

pull1D
Entries 87
Mean −0.02221
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

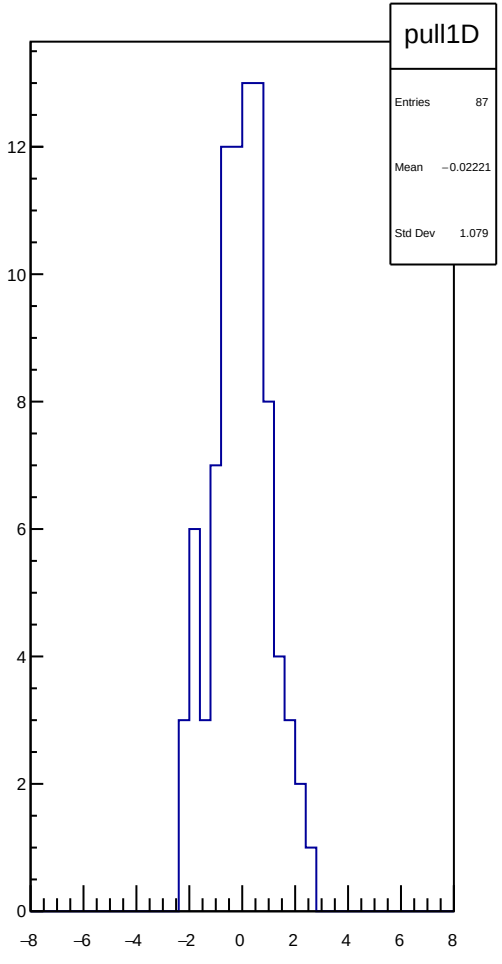

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 394 / 86
p0 1265 ± 0.9538
1320
1300
1280
1260
1240
1220


asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 97.19 / 86
p0 2638 ± 1528
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 207.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 87
Mean 0.003055
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 7746 / 86
p0 1430 ± 1.08
1700
1600
1500
1400
1300


eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.3 / 86
p0 −656.1± 1349
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 122.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 87
Mean −0.02221
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
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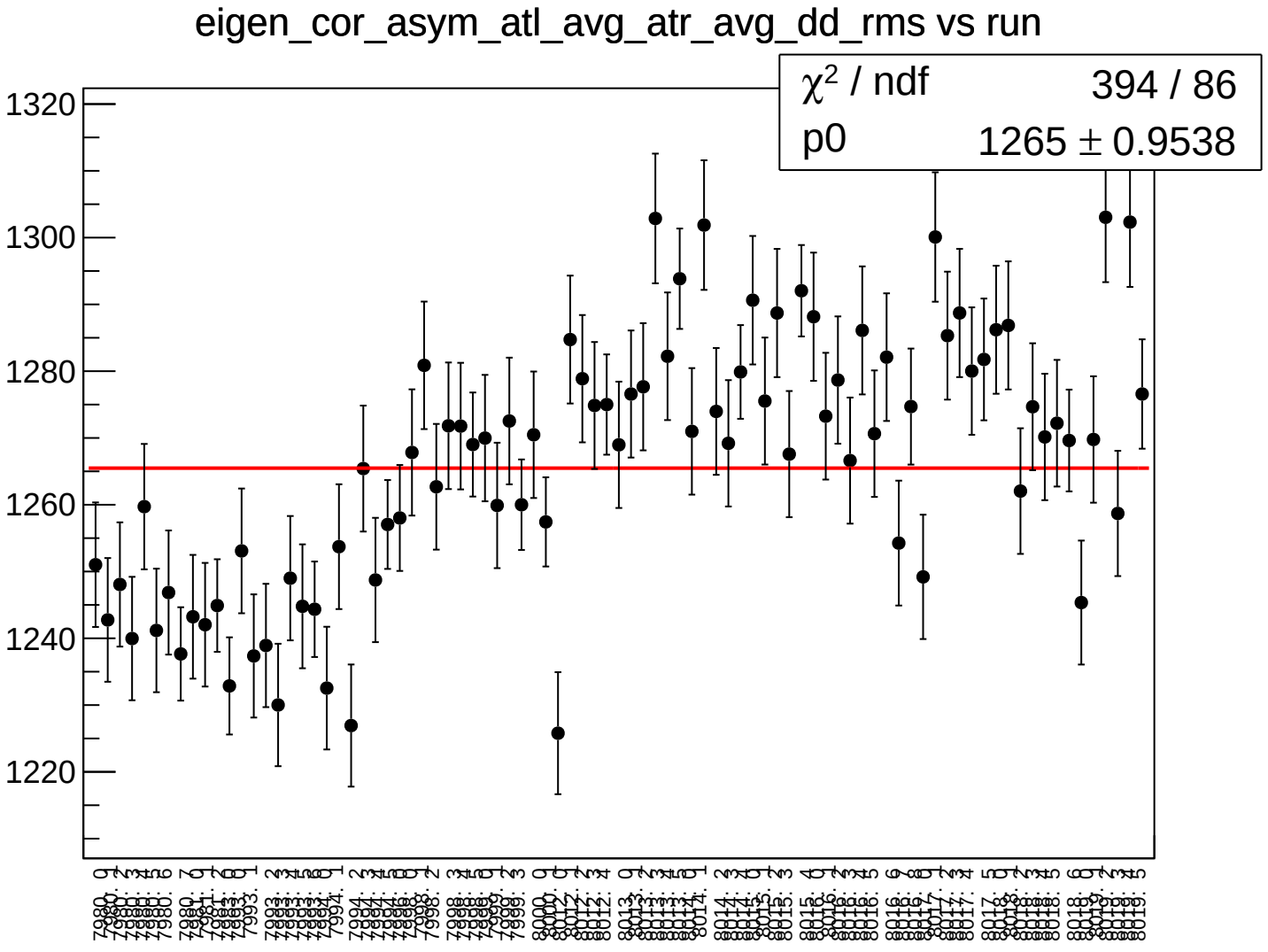
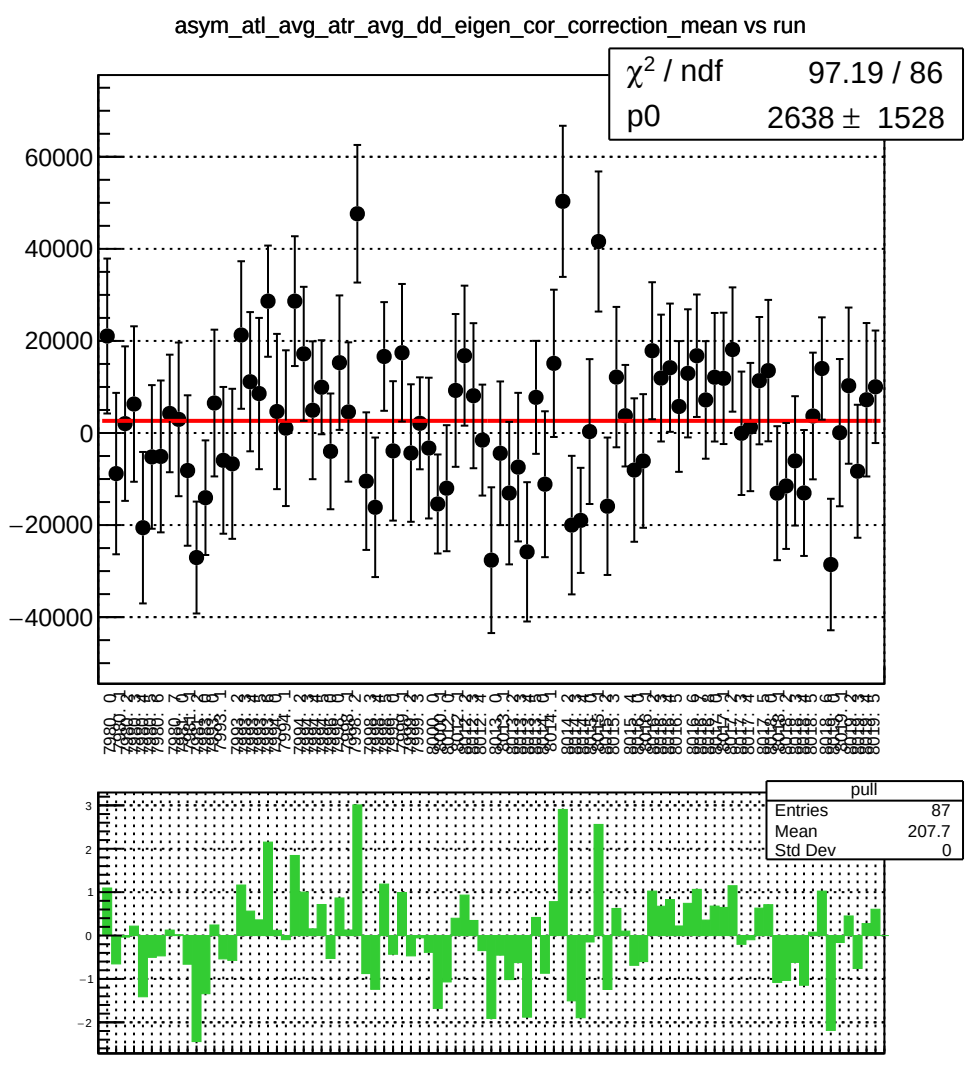
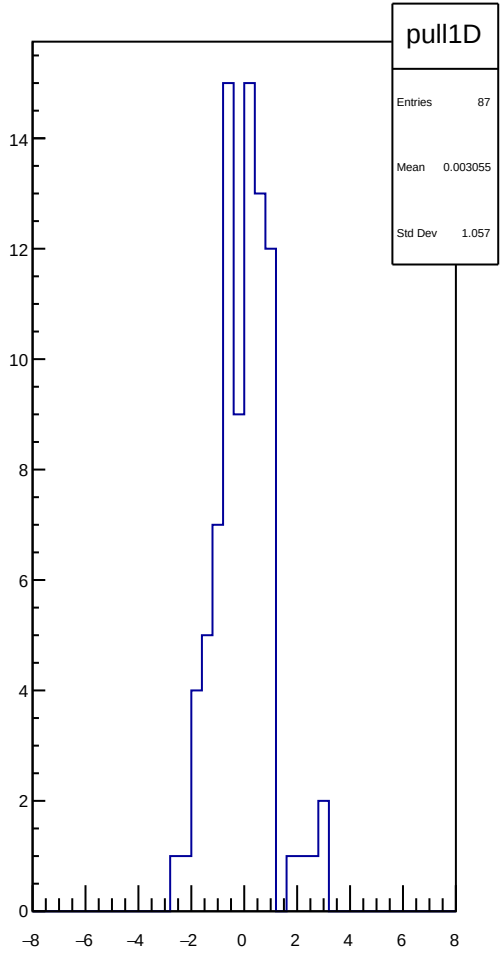
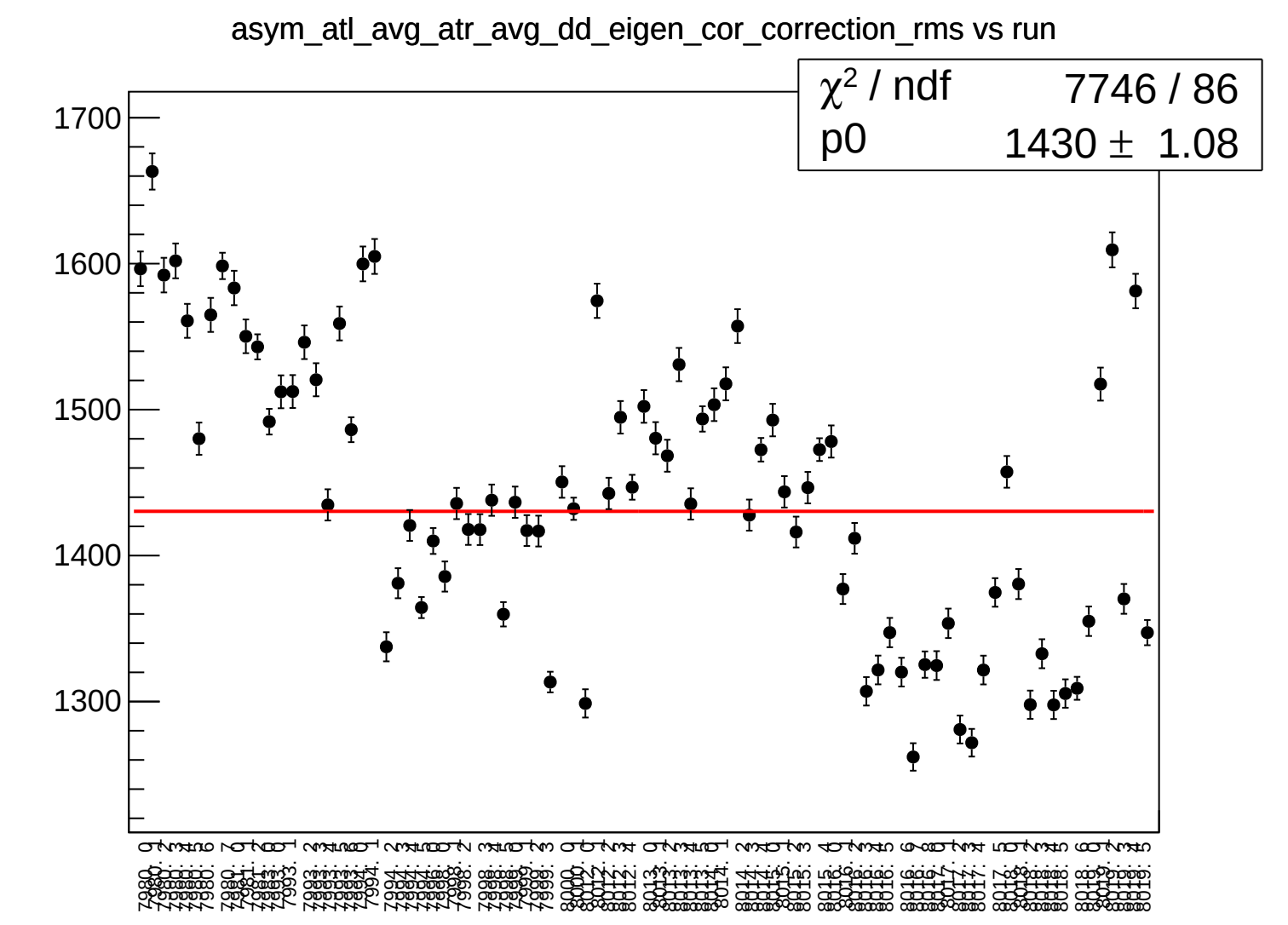
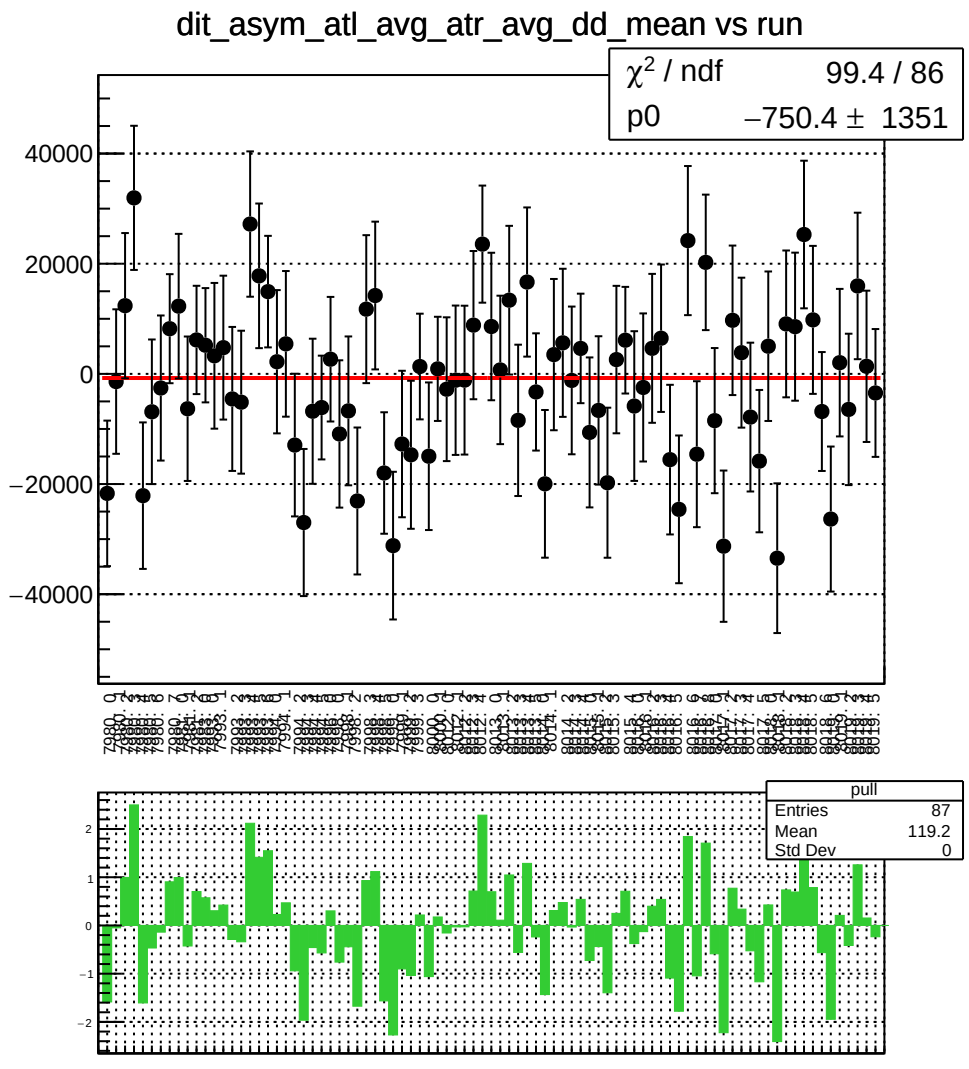
2
4
6
8

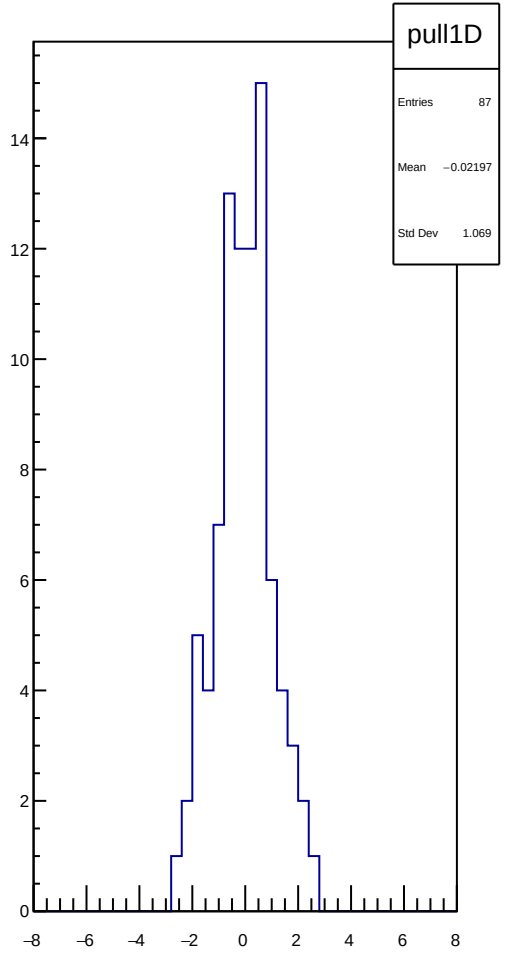

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 394 / 86
p0 1265 ± 0.9538
1320
1300
1280
1260
1240
1220

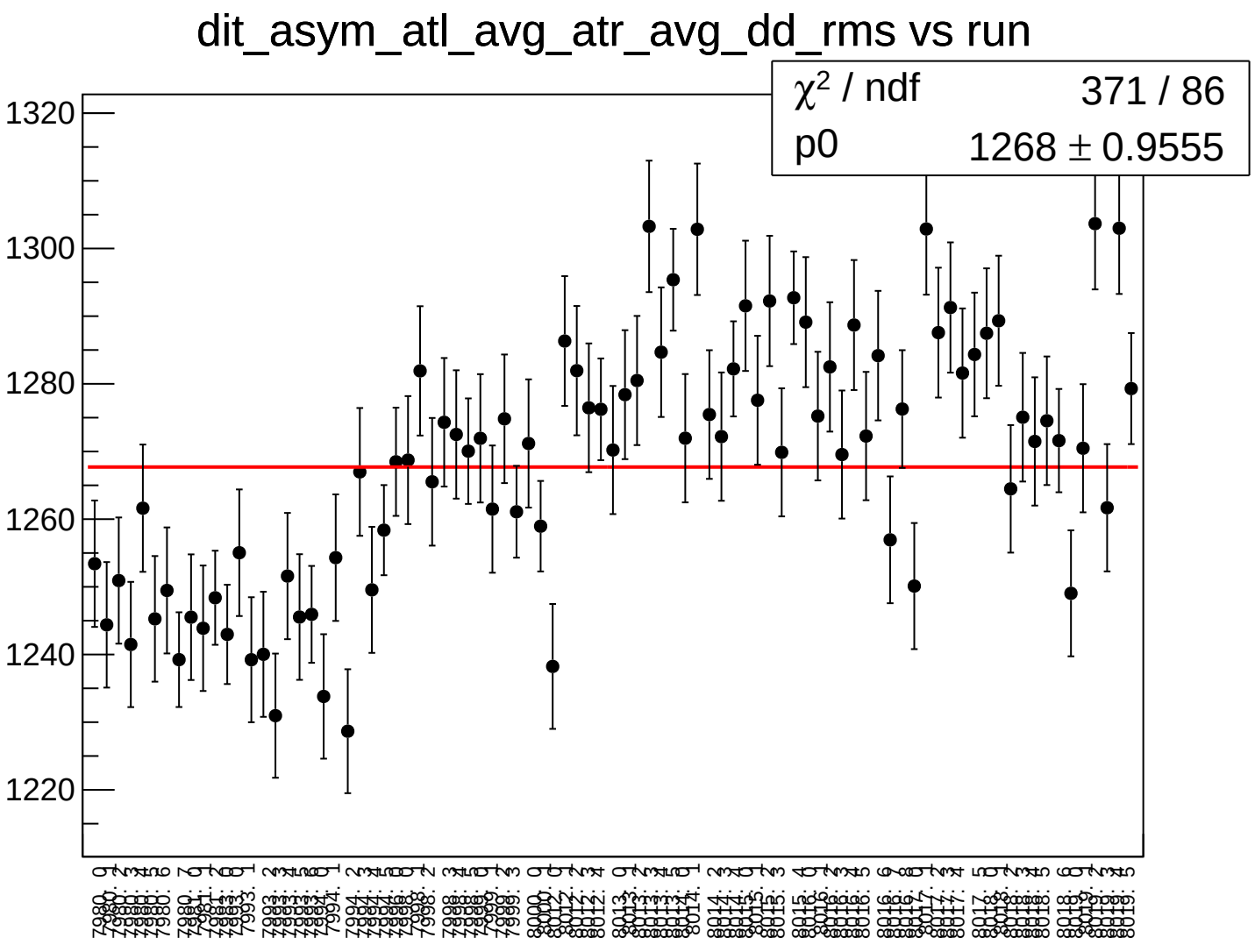

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.19 / 86
p0 2638 ± 1528
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 207.7
Std Dev 0
3
2
1
0
−1
−2

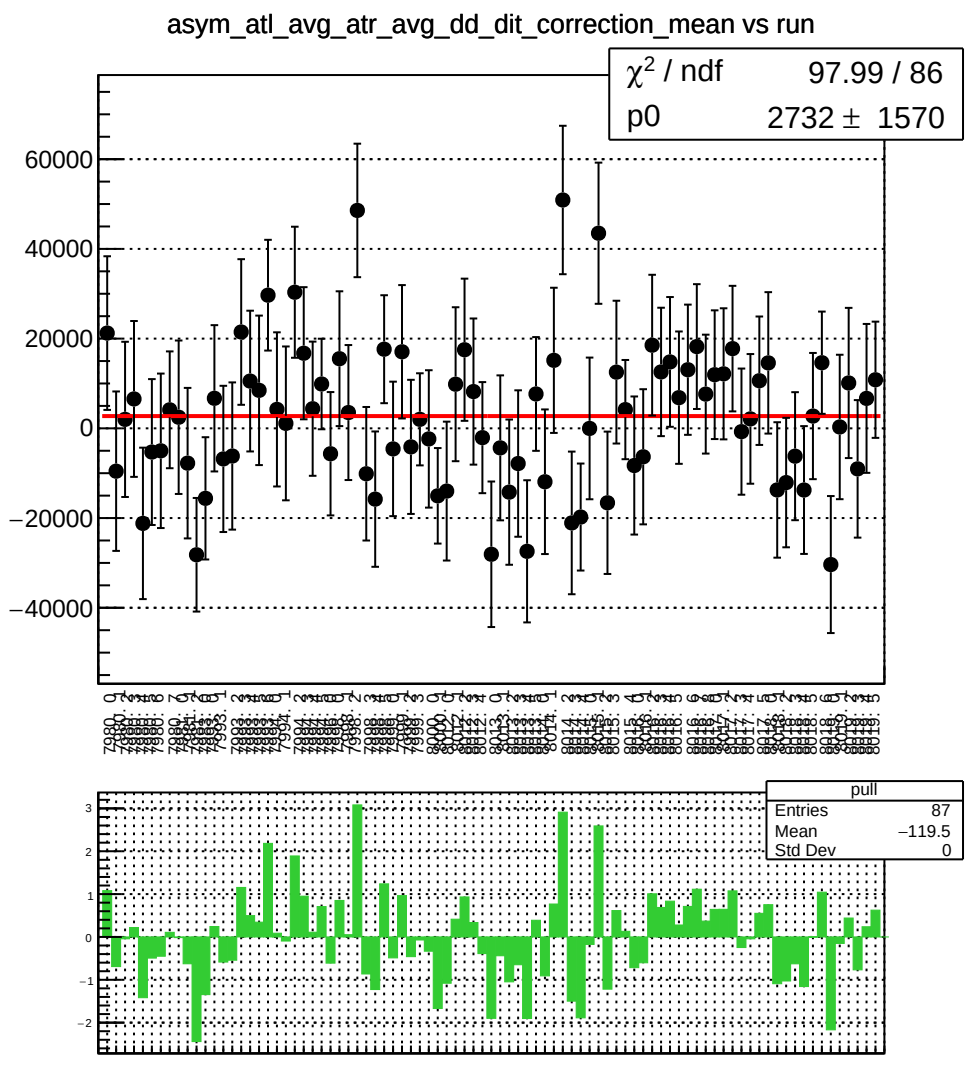

pull1D
Entries 87
Mean 0.003055
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

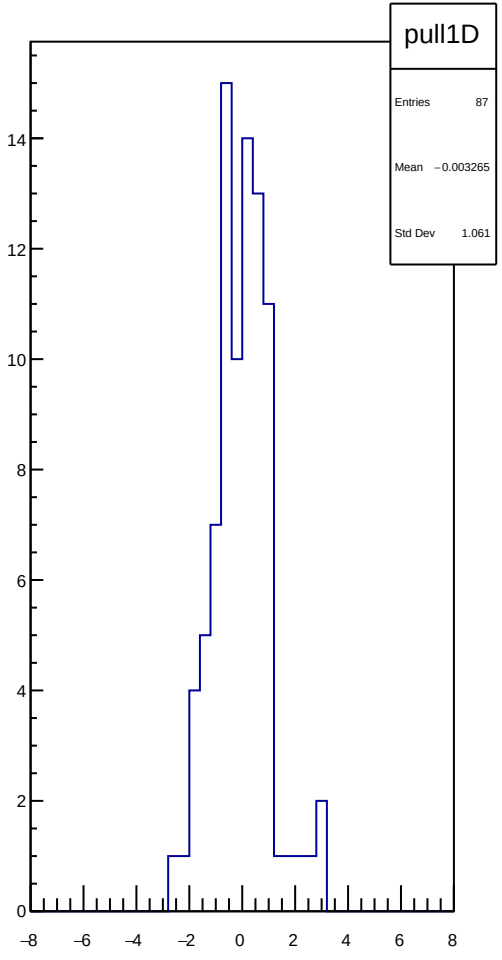

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7746 / 86
p0 1430 ± 1.08
1700
1600
1500
1400
1300

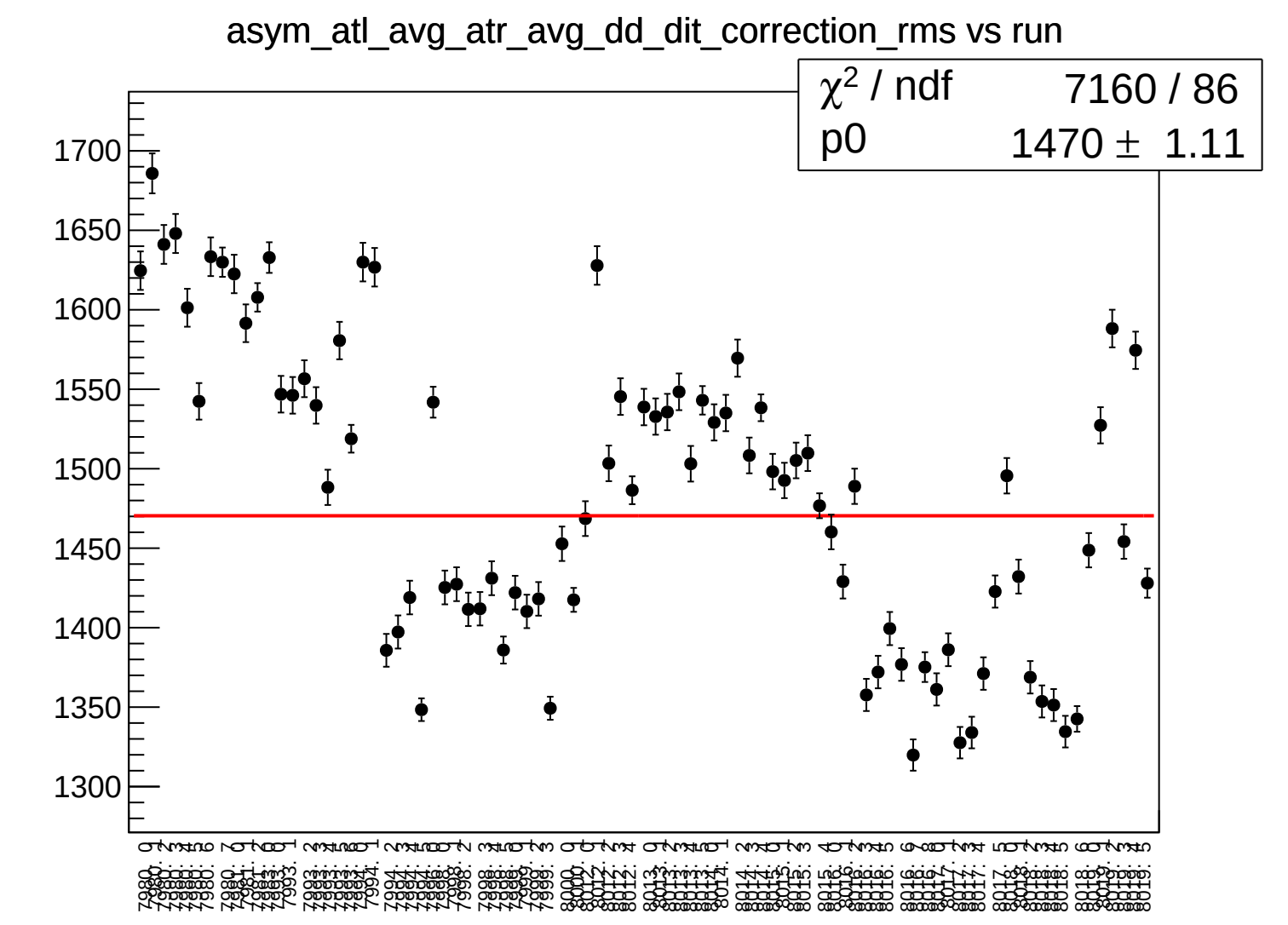

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.4 / 86
p0 −750.4 ± 1351
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 119.2
Std Dev 0
2
1
0
−1
−2

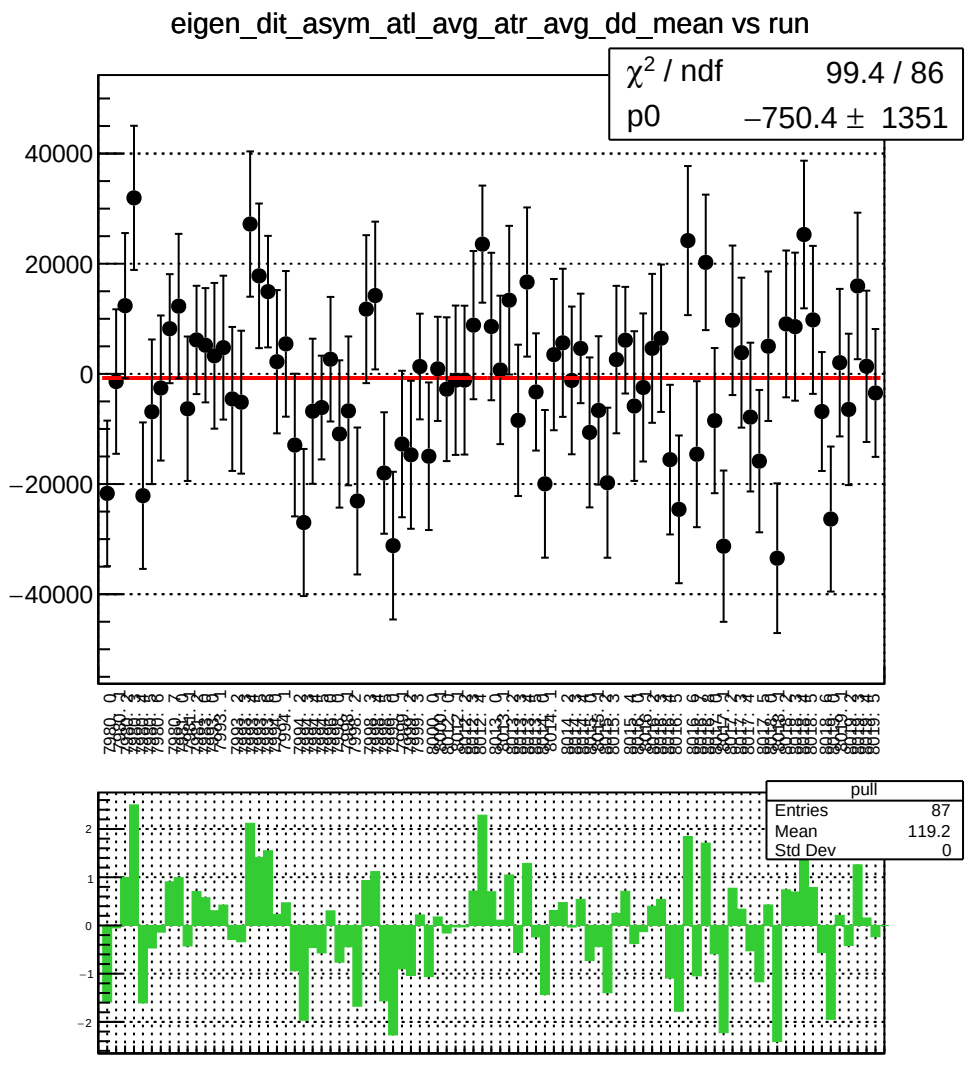

pull1D
Entries 87
Mean −0.02197
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

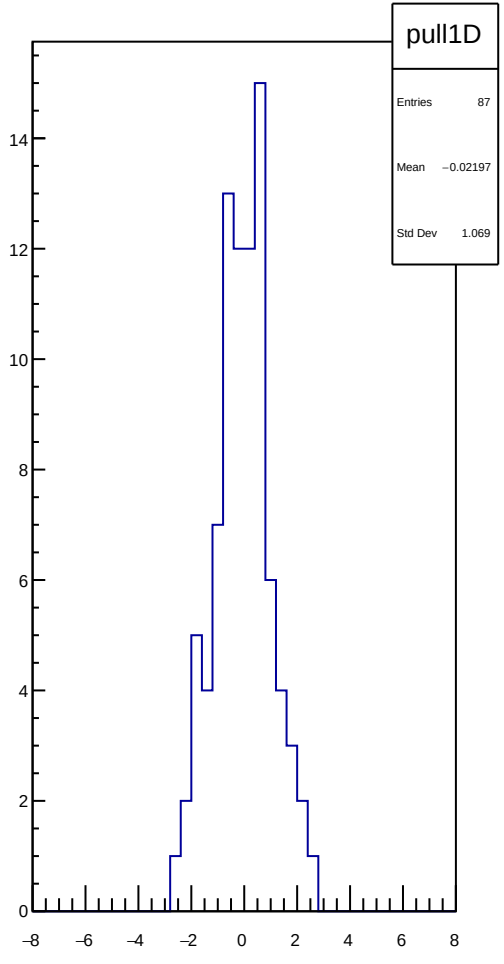

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 371 / 86
p0 1268 ± 0.9555
1320
1300
1280
1260
1240
1220

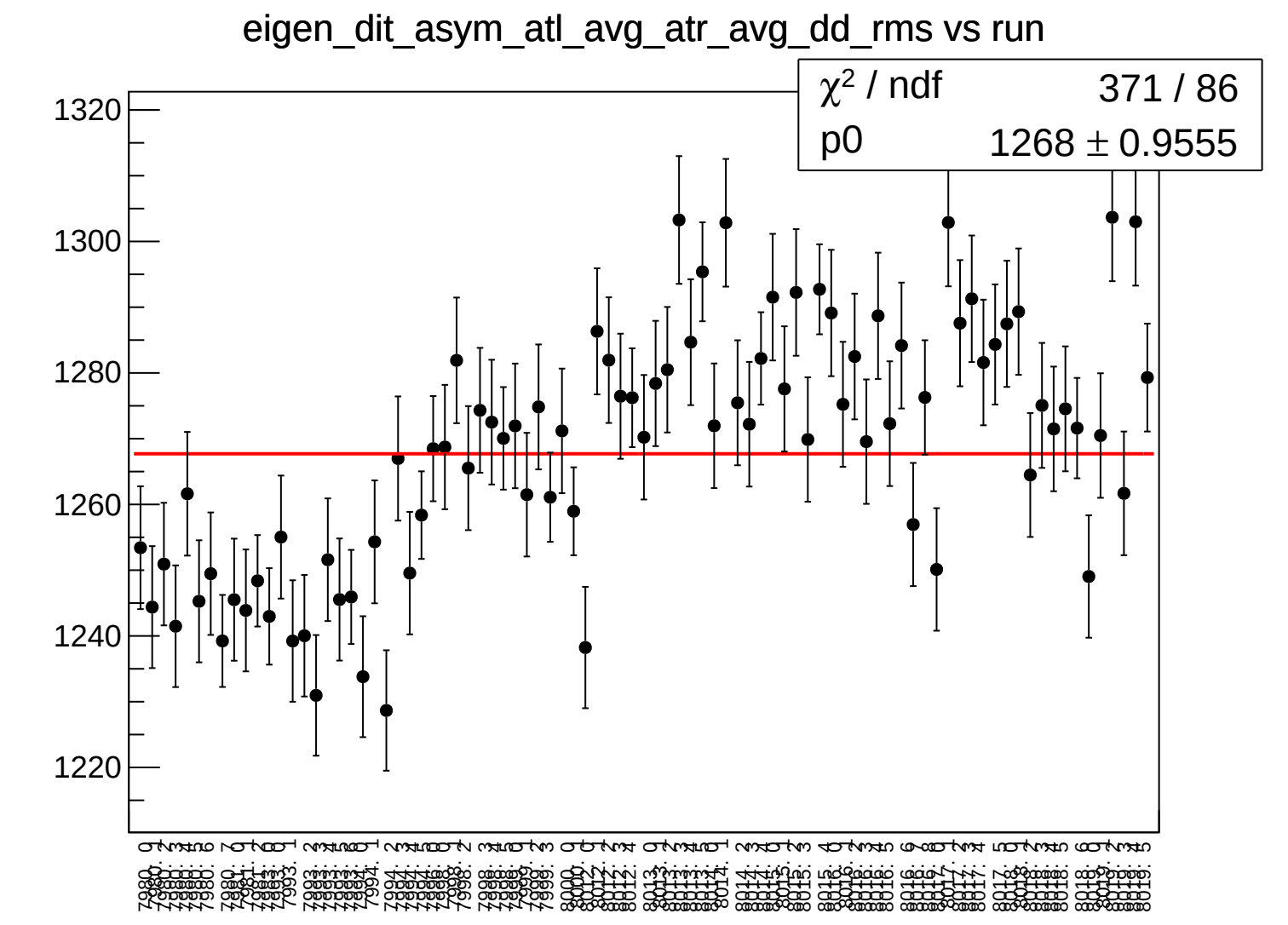

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 97.99 / 86
p0 2732 ± 1570
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −119.5
Std Dev 0
3
2
1
0
−1
−2

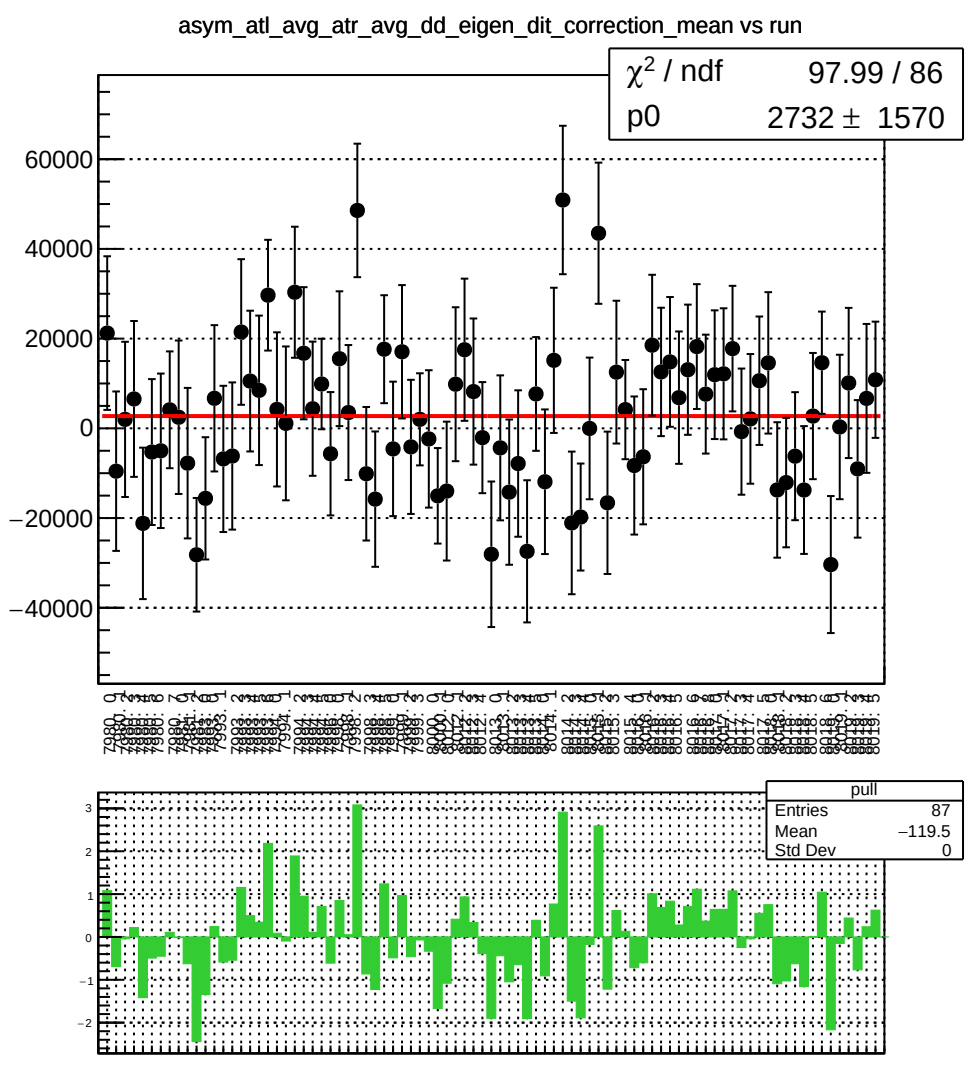

pull1D
Entries 87
Mean −0.003265
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

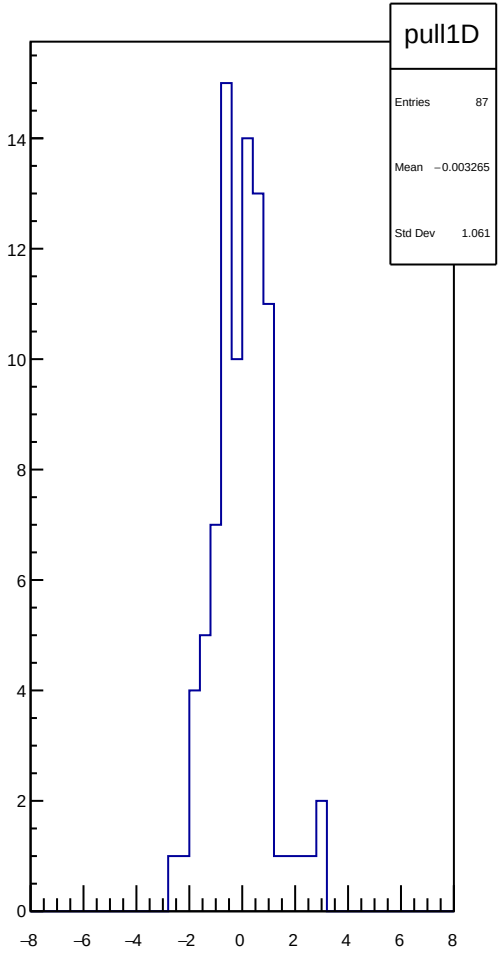

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 7160 / 86
p0 1470 ± 1.11
1700
1650
1600
1550
1500
1450
1400
1350
1300

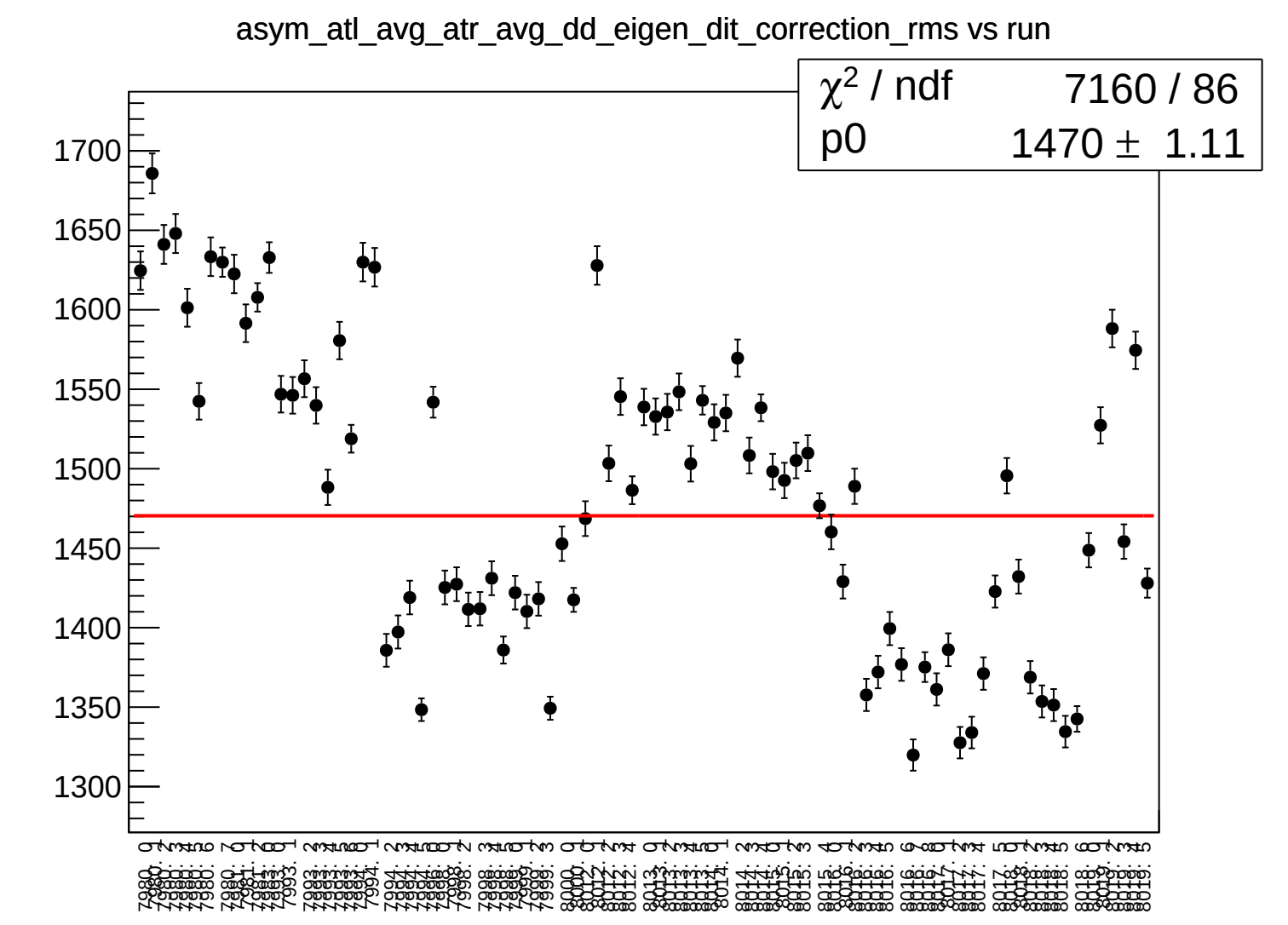

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.4 / 86
p0 −750.4 ± 1351
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 119.2
Std Dev 0
2
1
0
−1
−2

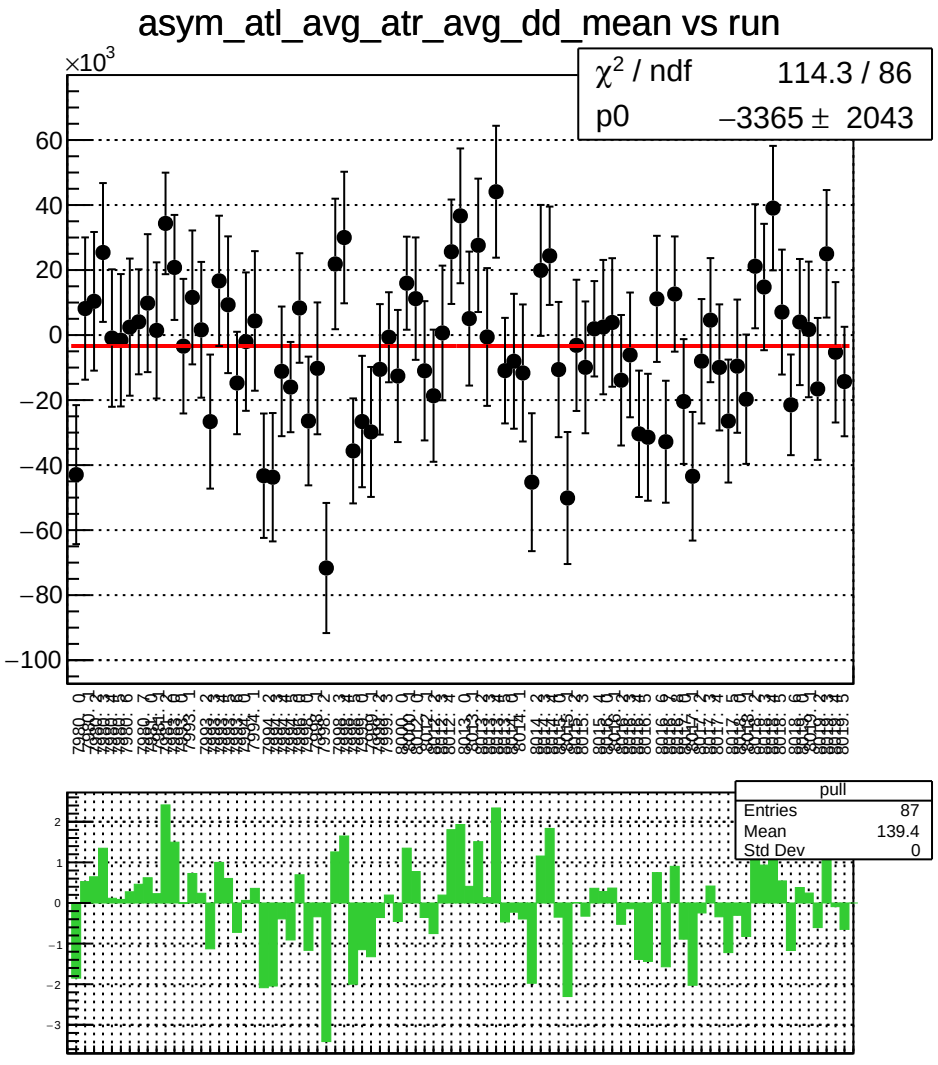

pull1D
Entries 87
Mean −0.02197
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

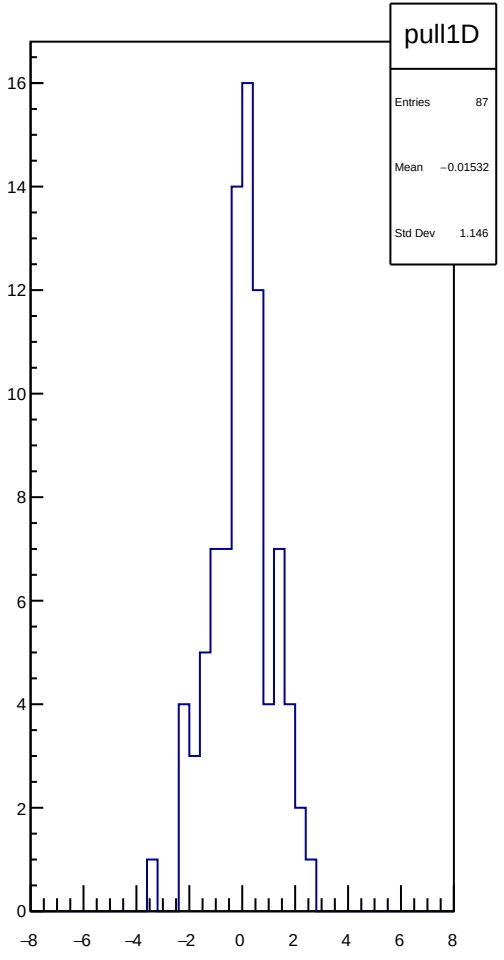

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 371 / 86
p0 1268 ± 0.9555
1320
1300
1280
1260
1240
1220

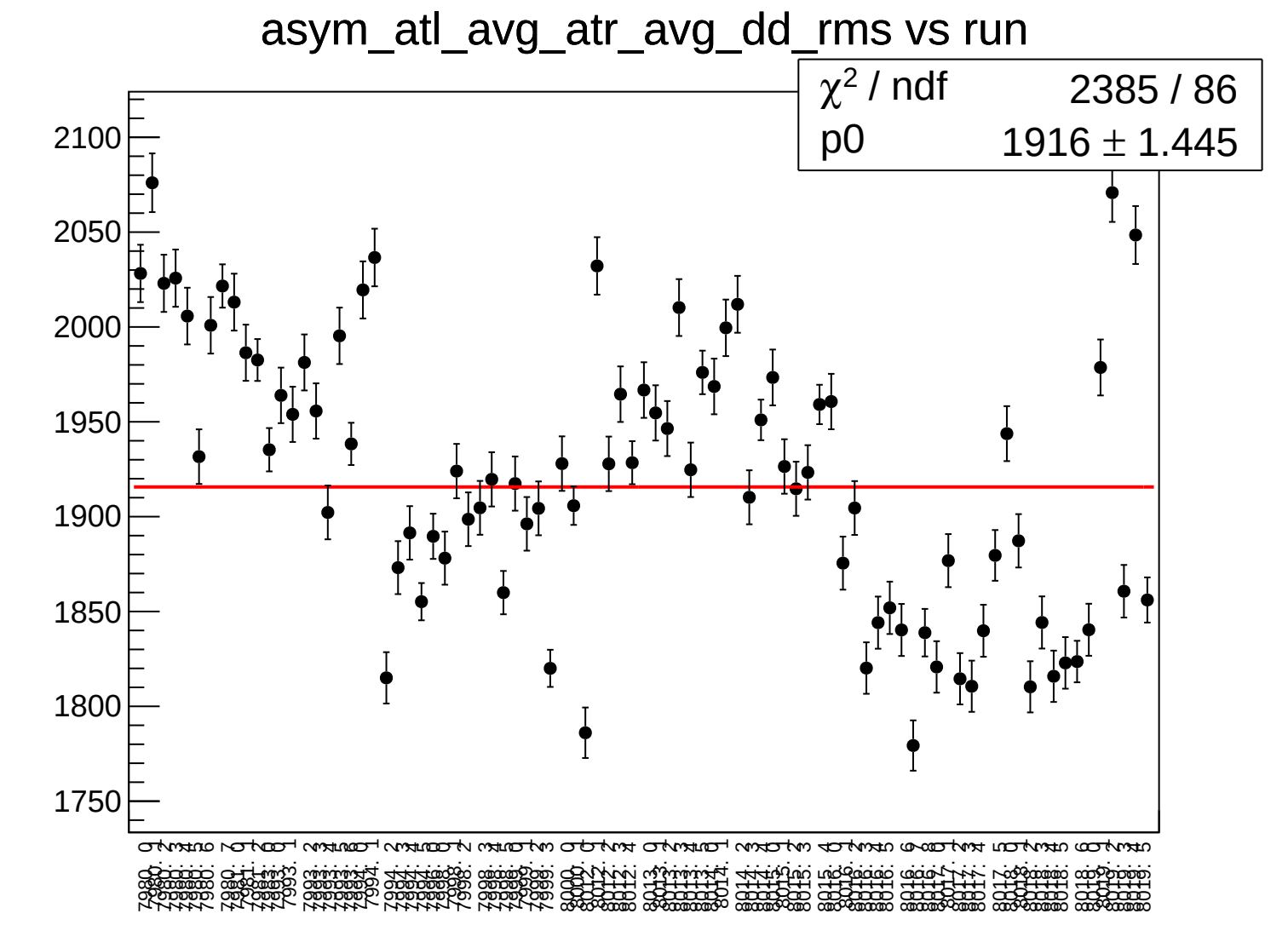

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.99 / 86
p0 2732 ± 1570
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −119.5
Std Dev 0
3
2
1
0
−1
−2

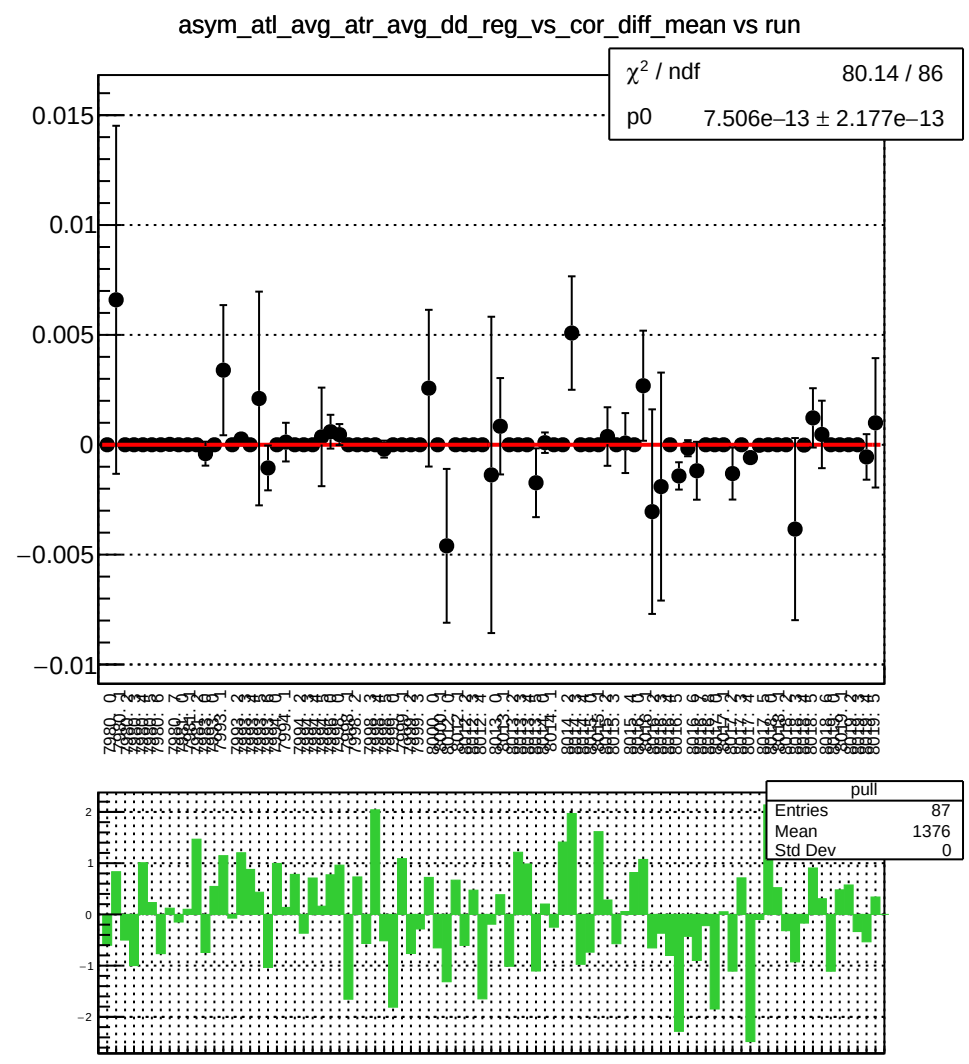

pull1D
Entries 87
Mean −0.003265
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

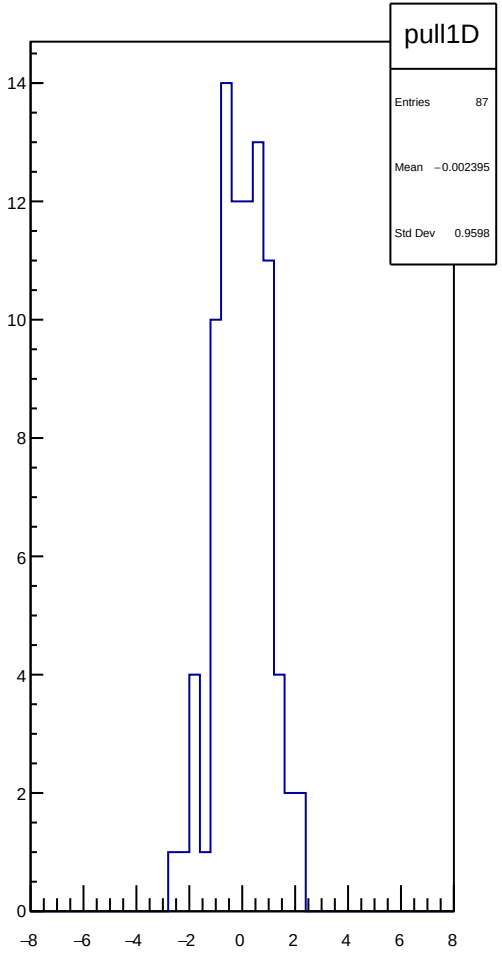

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7160 / 86
p0 1470 ± 1.11
1700
1650
1600
1550
1500
1450
1400
1350
1300

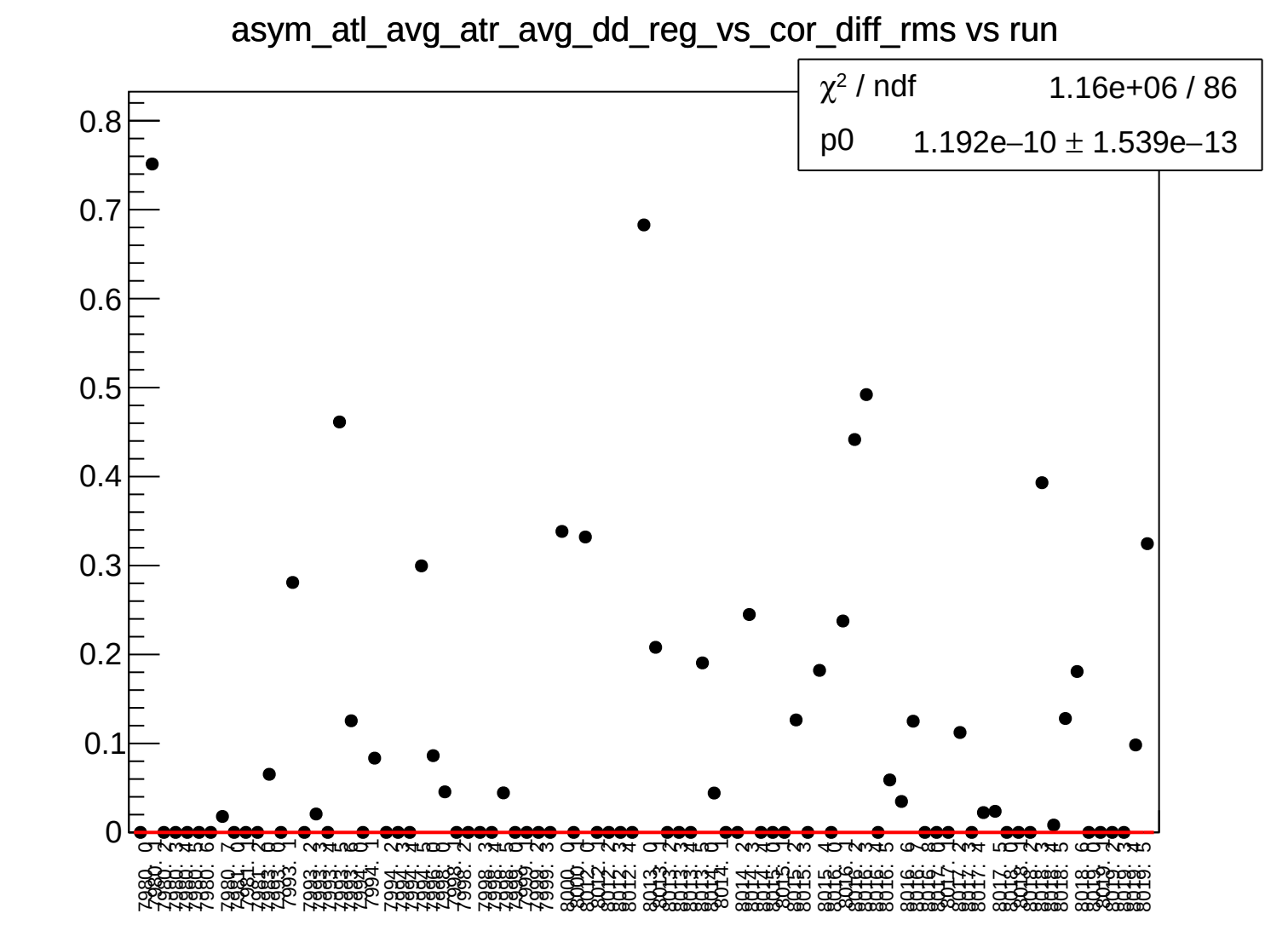

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 114.3 / 86
p0 −3365 ± 2043
pull
Entries 87
Mean 139.4
Std Dev 0

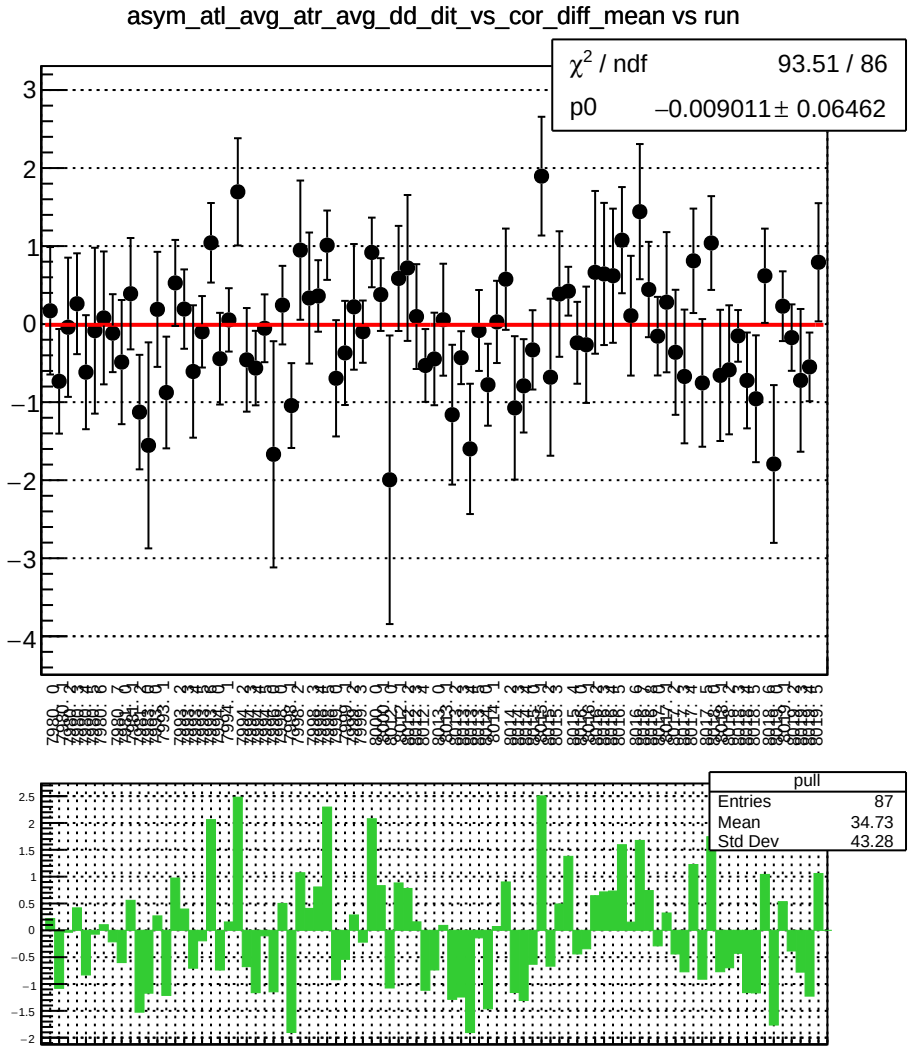

pull1D
Entries 87
Mean −0.01532
Std Dev 1.146

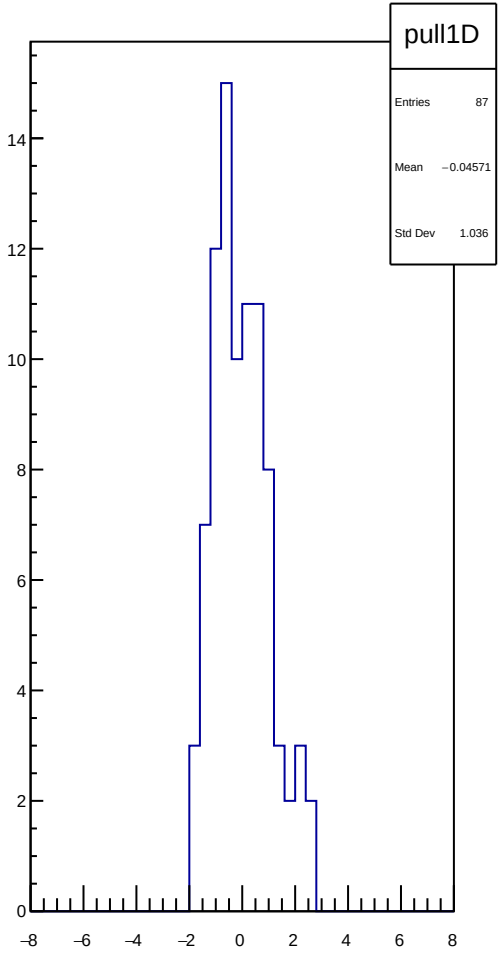

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2385 / 86
p0 1916 ± 1.445
2100
2050
2000
1950
1900
1850
1800
1750

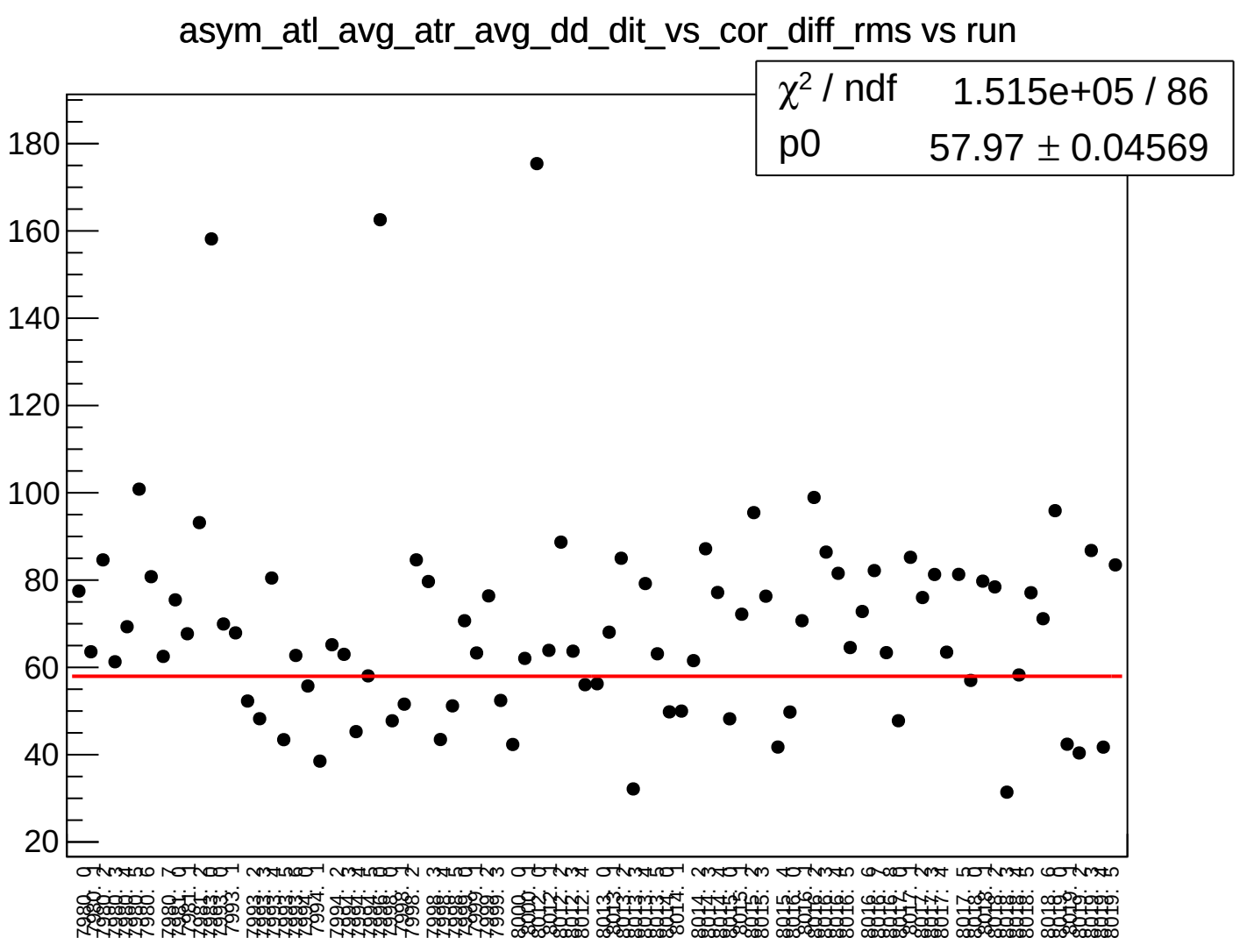

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.14 / 86
p0 7.506e−13 ± 2.177e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 1376
Std Dev 0
2
1
0
−1
−2

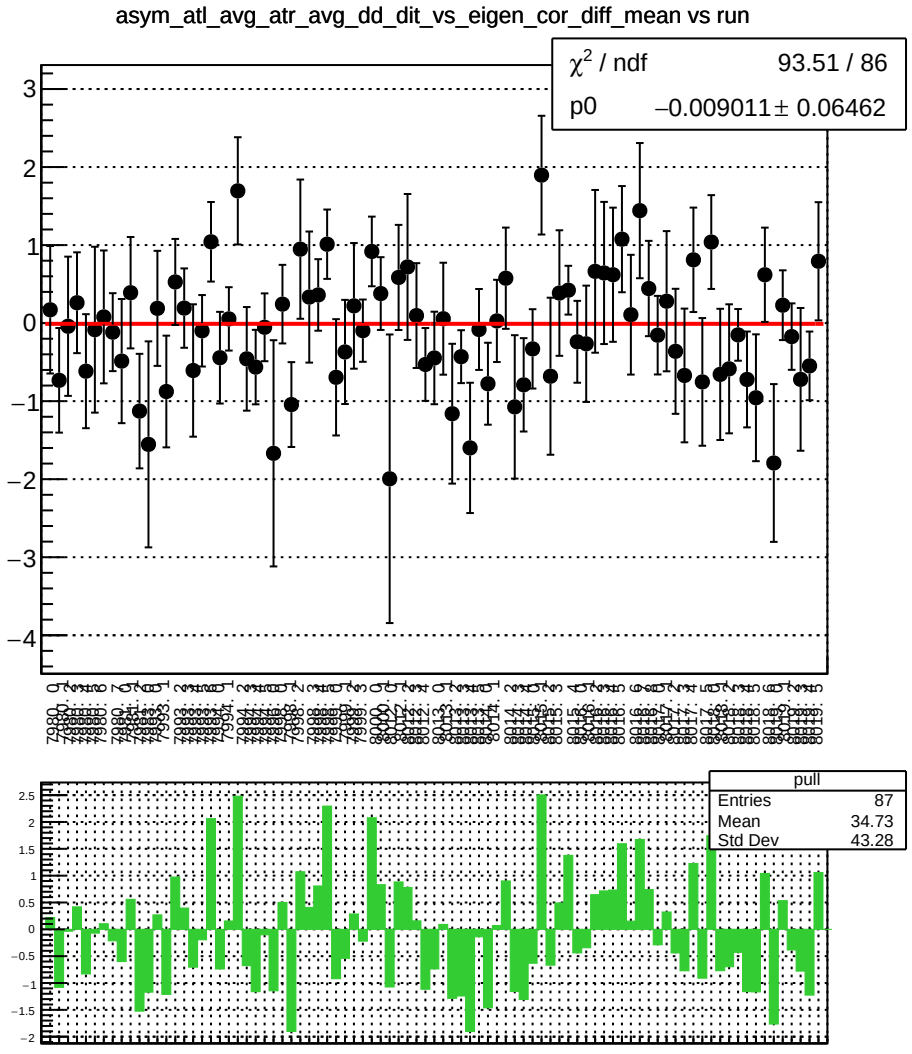

pull1D
Entries 87
Mean −0.002395
Std Dev 0.9598
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

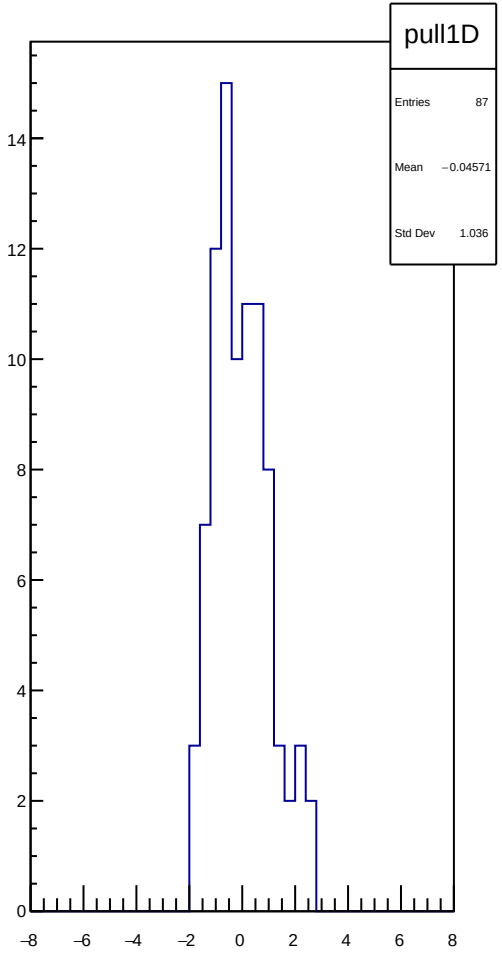

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.16e+06 / 86
p0 1.192e−10 ± 1.539e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

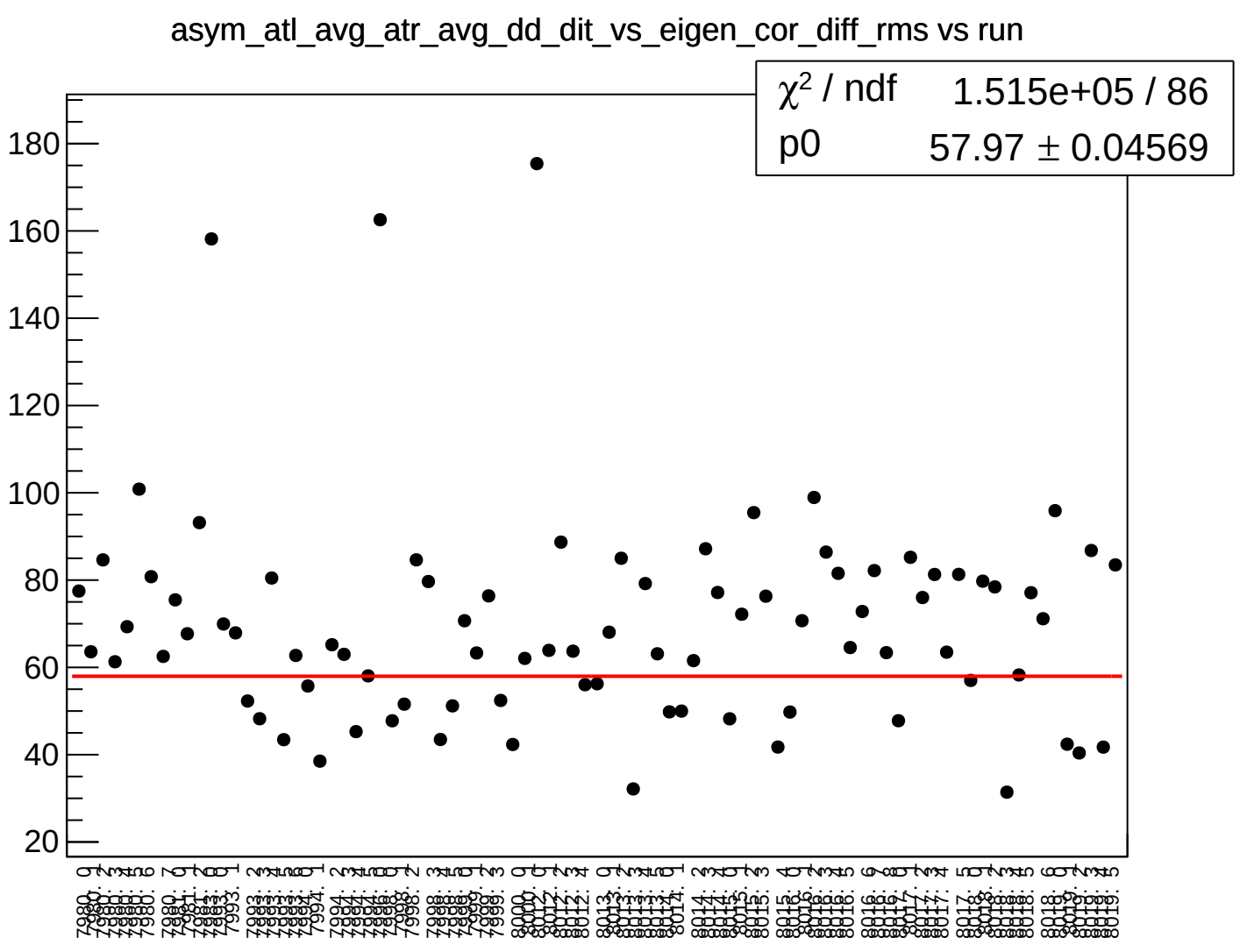

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.51 / 86
p0 −0.009011 ± 0.06462
pull
Entries 87
Mean 34.73
Std Dev 43.28

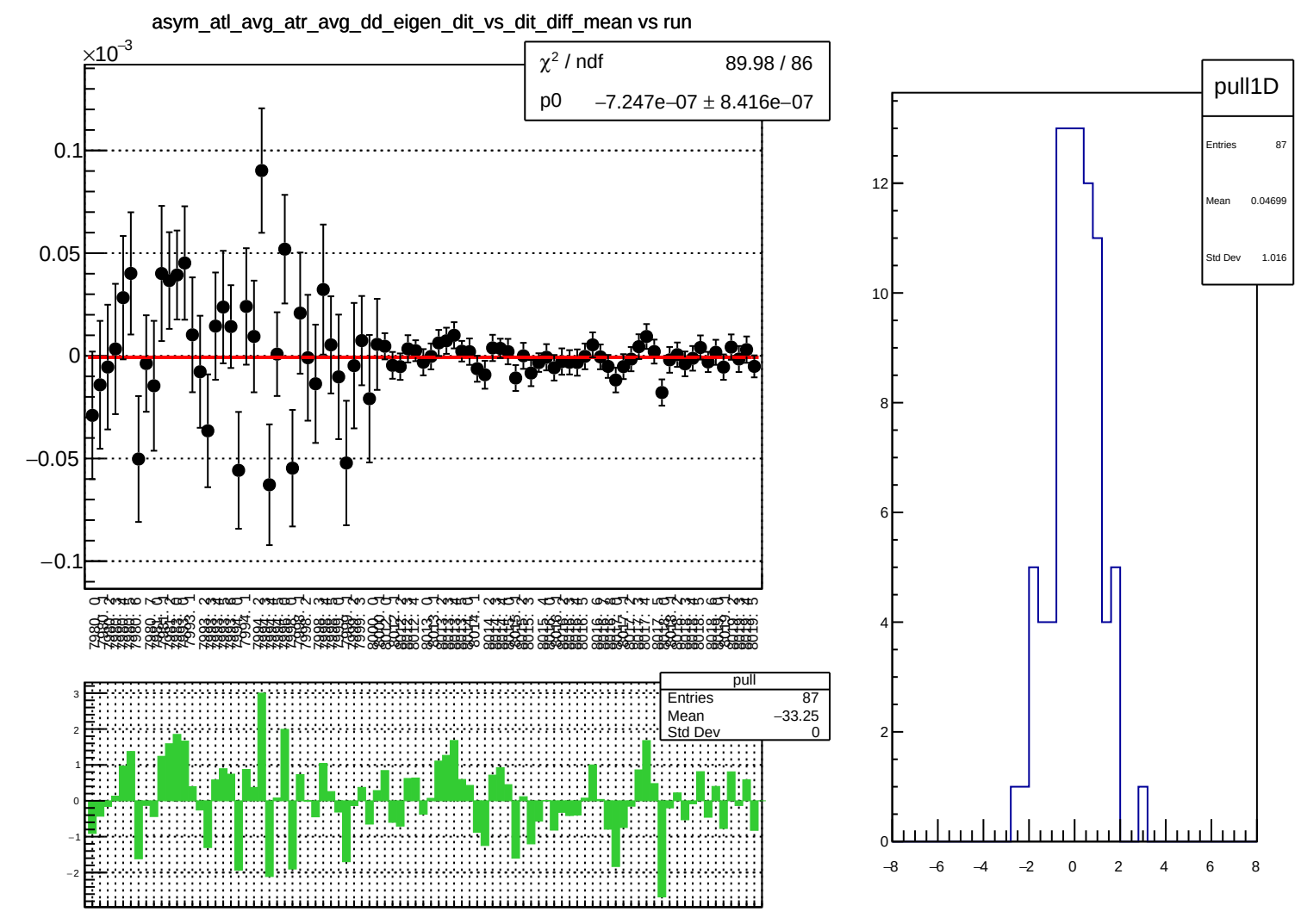

pull1D
Entries 87
Mean −0.04571
Std Dev 1.036

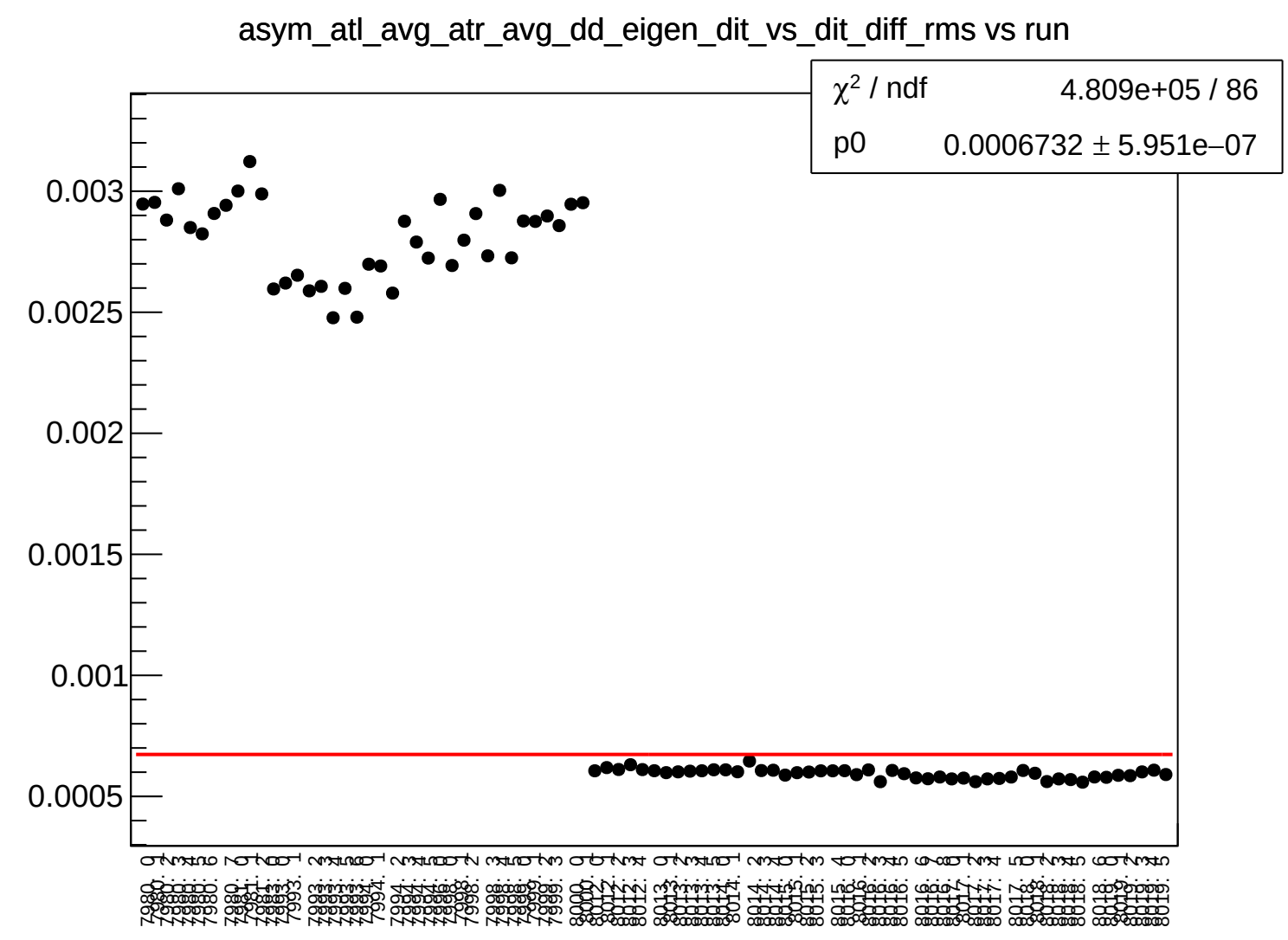

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.515e+05 / 86
p0 57.97 ± 0.04569
180
160
140
120
100
80
60
40
20

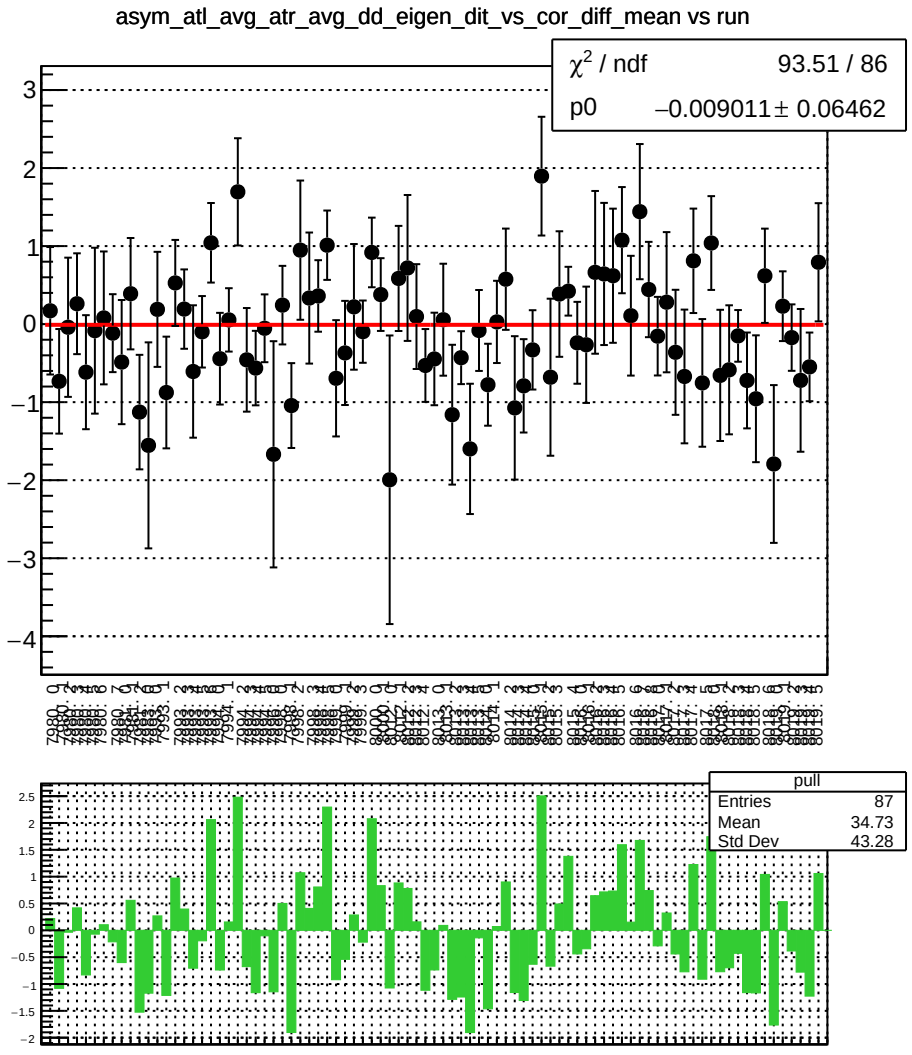

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.51 / 86
p0 −0.009011 ± 0.06462
pull
Entries 87
Mean 34.73
Std Dev 43.28

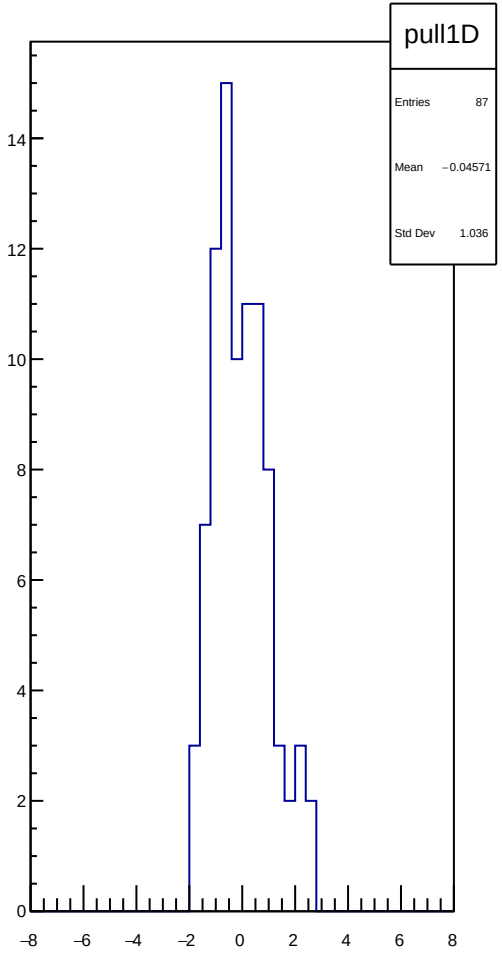

pull1D
Entries 87
Mean −0.04571
Std Dev 1.036

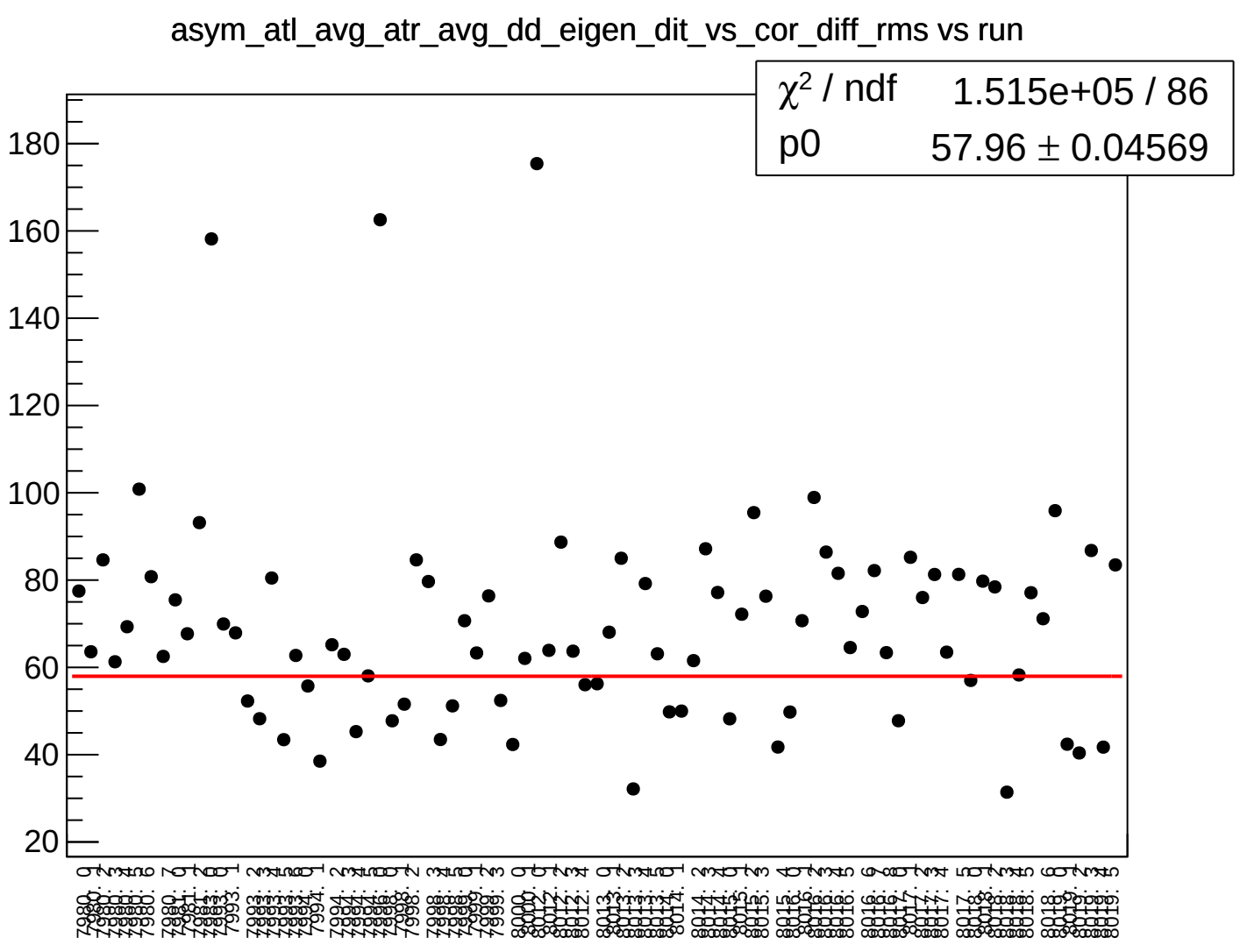

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.515e+05 / 86
p0 57.97 ± 0.04569
180
160
140
120
100
80
60
40
20

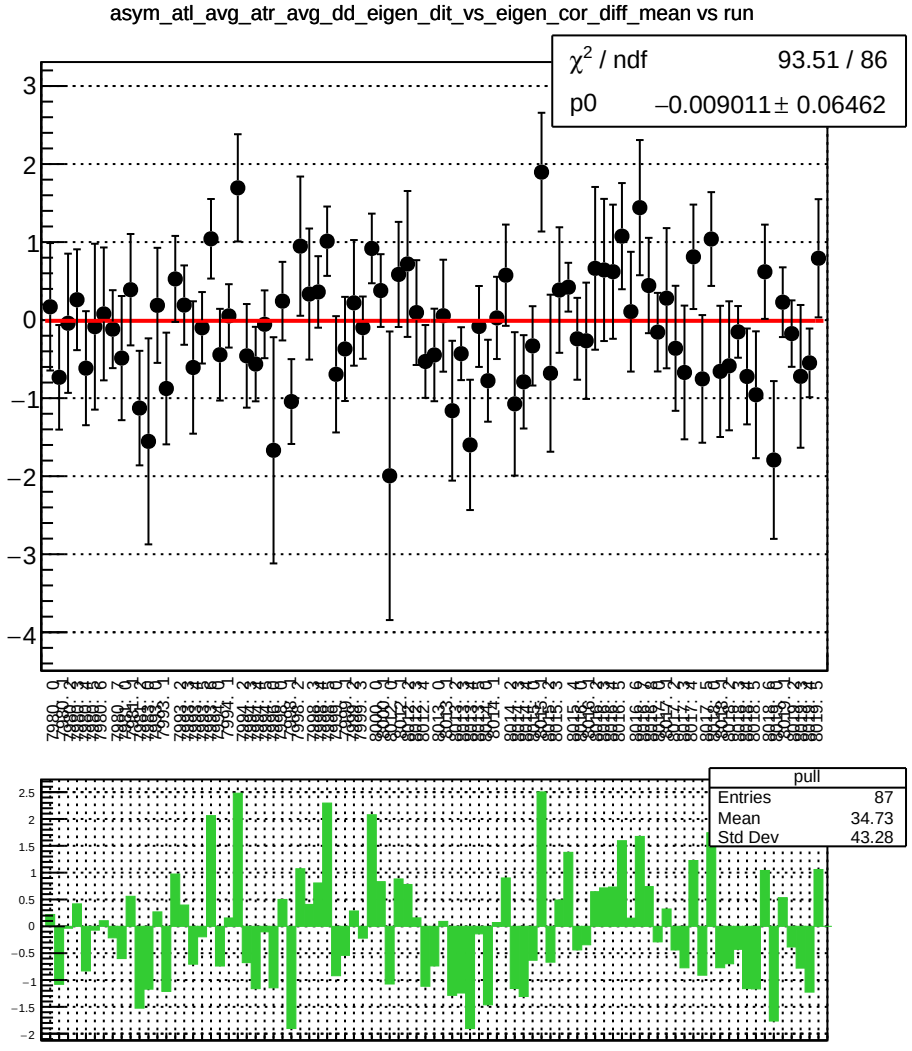

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.98 / 86
p0 −7.247e−07 ± 8.416e−07
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean −33.25
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.04699
Std Dev 1.016
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

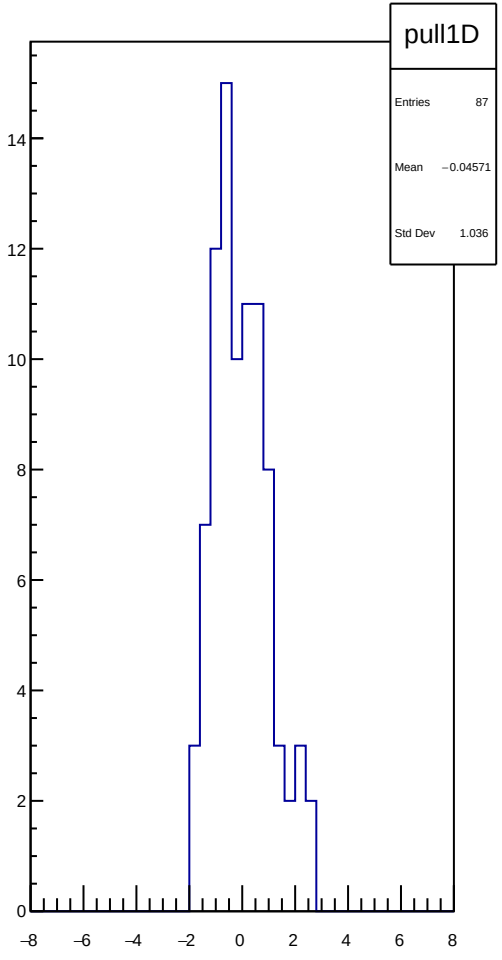

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.809e+05 / 86
p0 0.0006732 ± 5.951e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

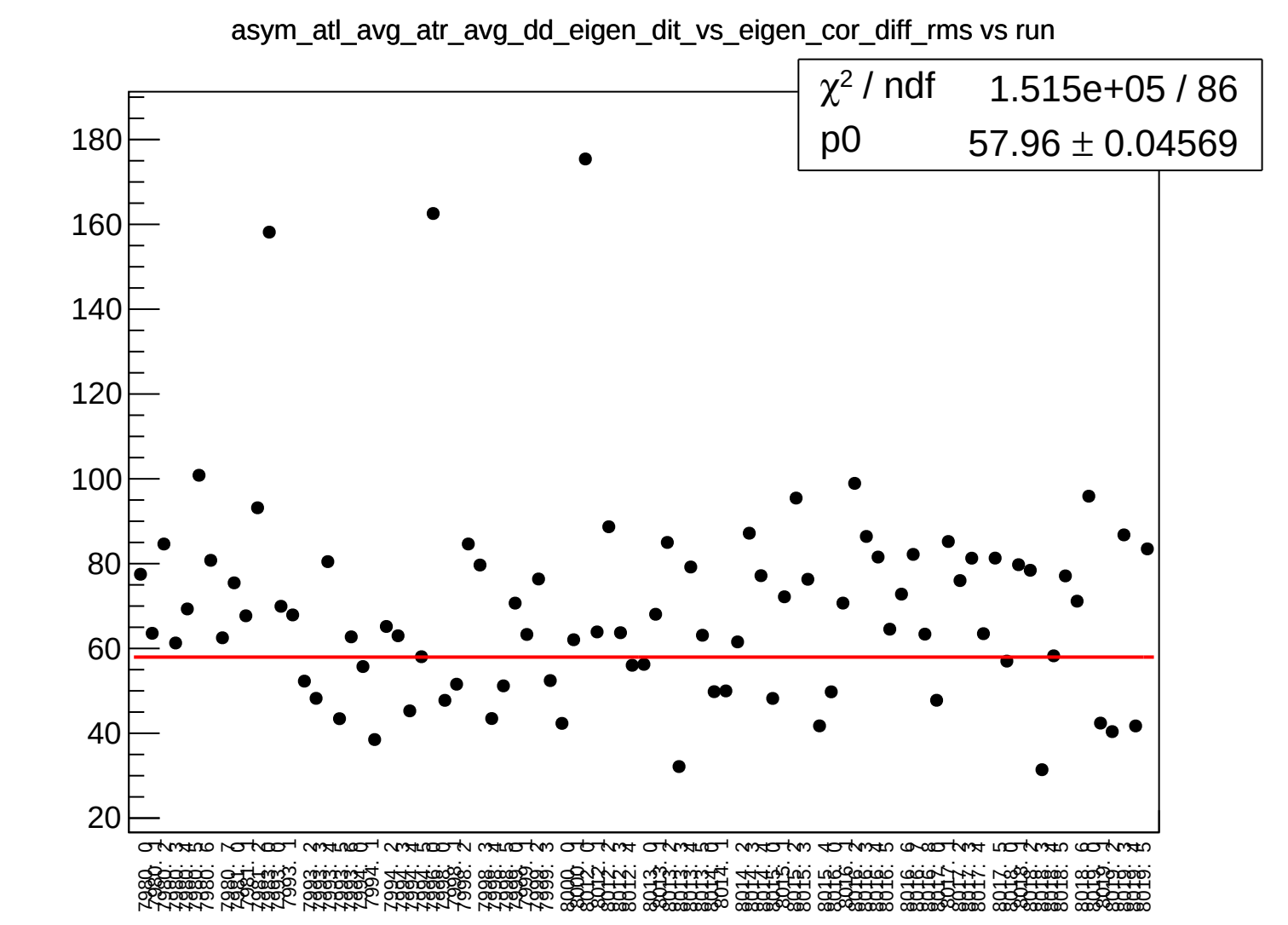

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.51 / 86
p0 −0.009011 ± 0.06462
pull
Entries 87
Mean 34.73
Std Dev 43.28

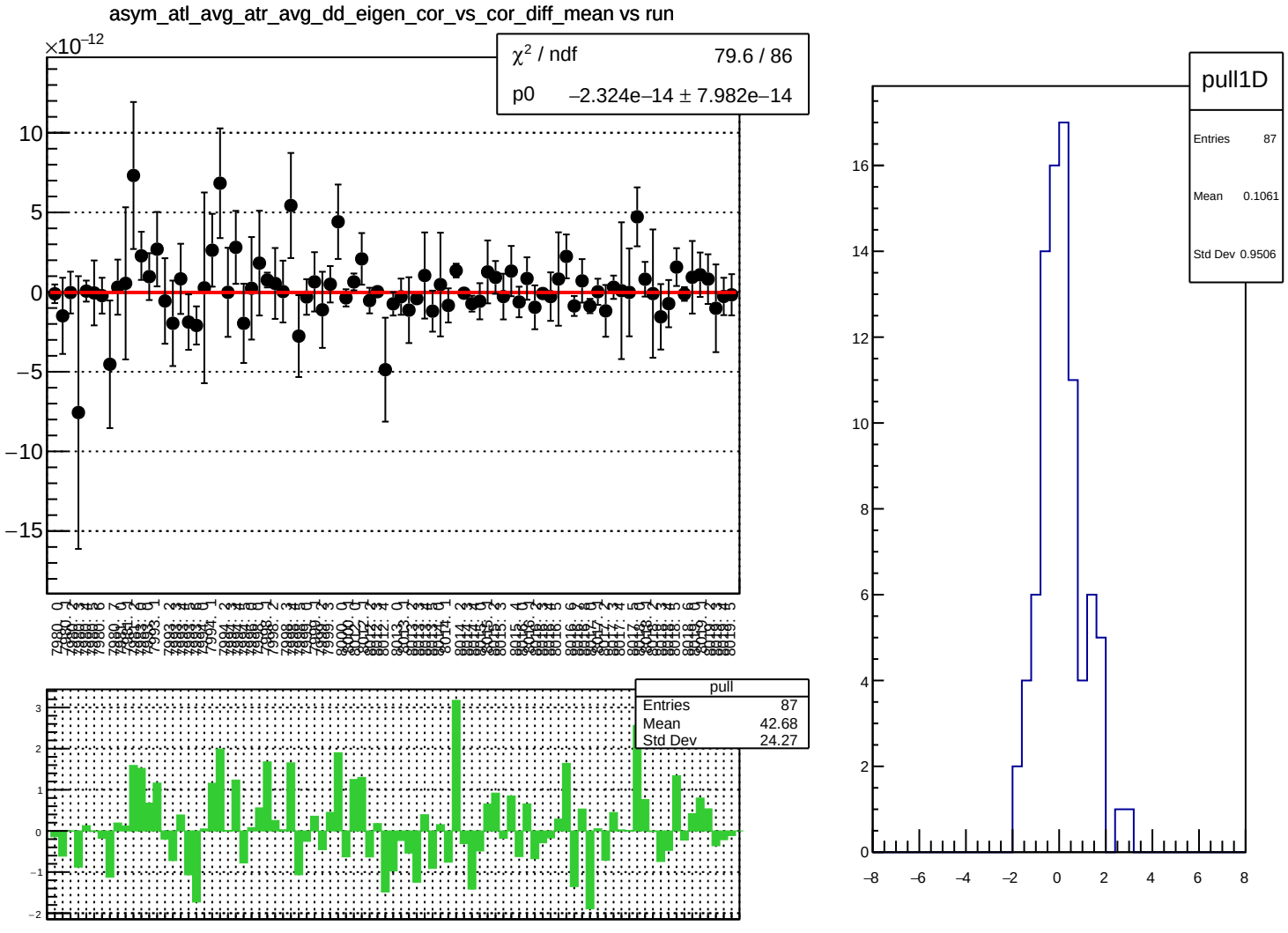

pull1D
Entries 87
Mean −0.04571
Std Dev 1.036

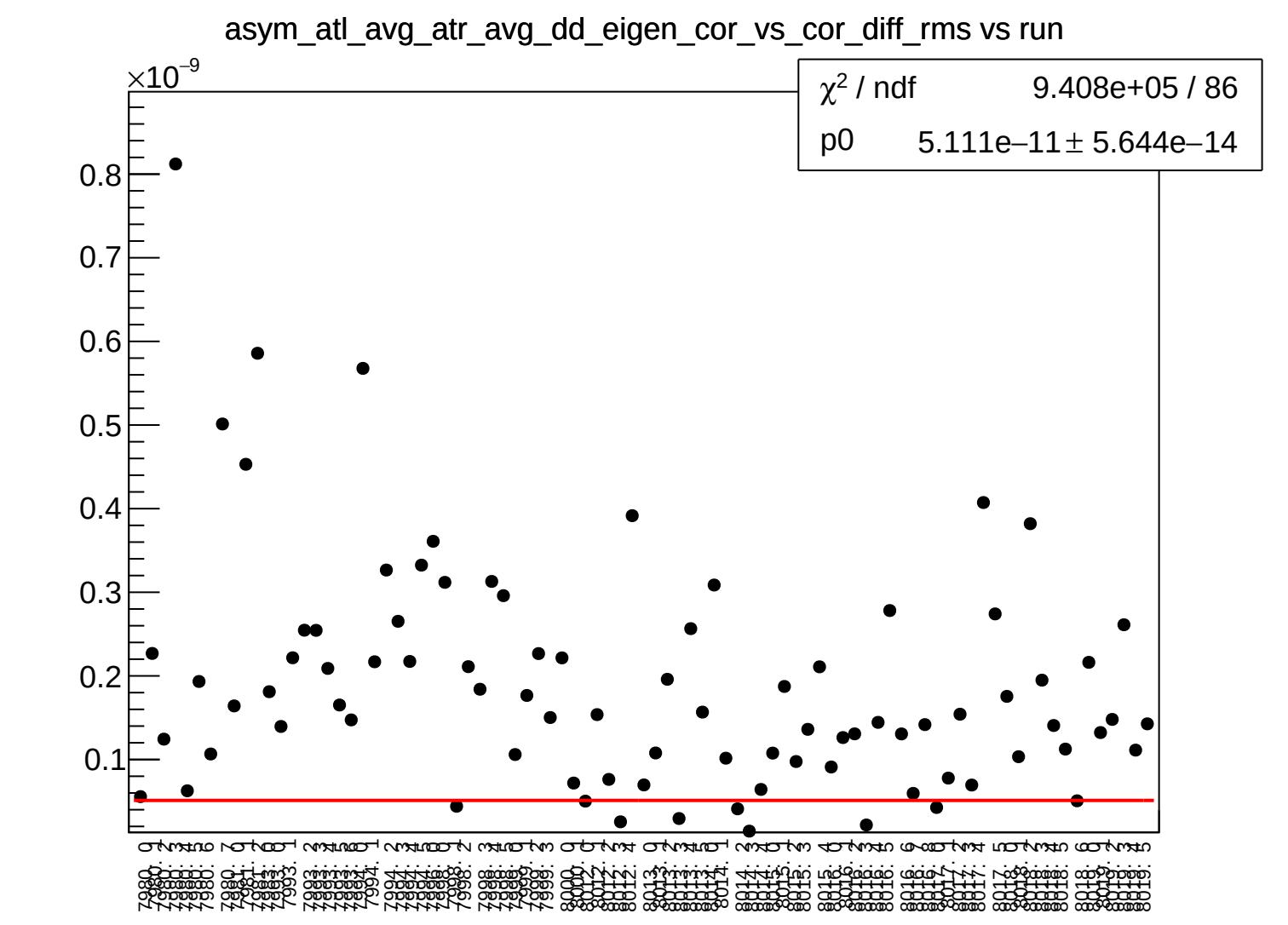

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.515e+05 / 86
p0 57.96 ± 0.04569
180
160
140
120
100
80
60
40
20

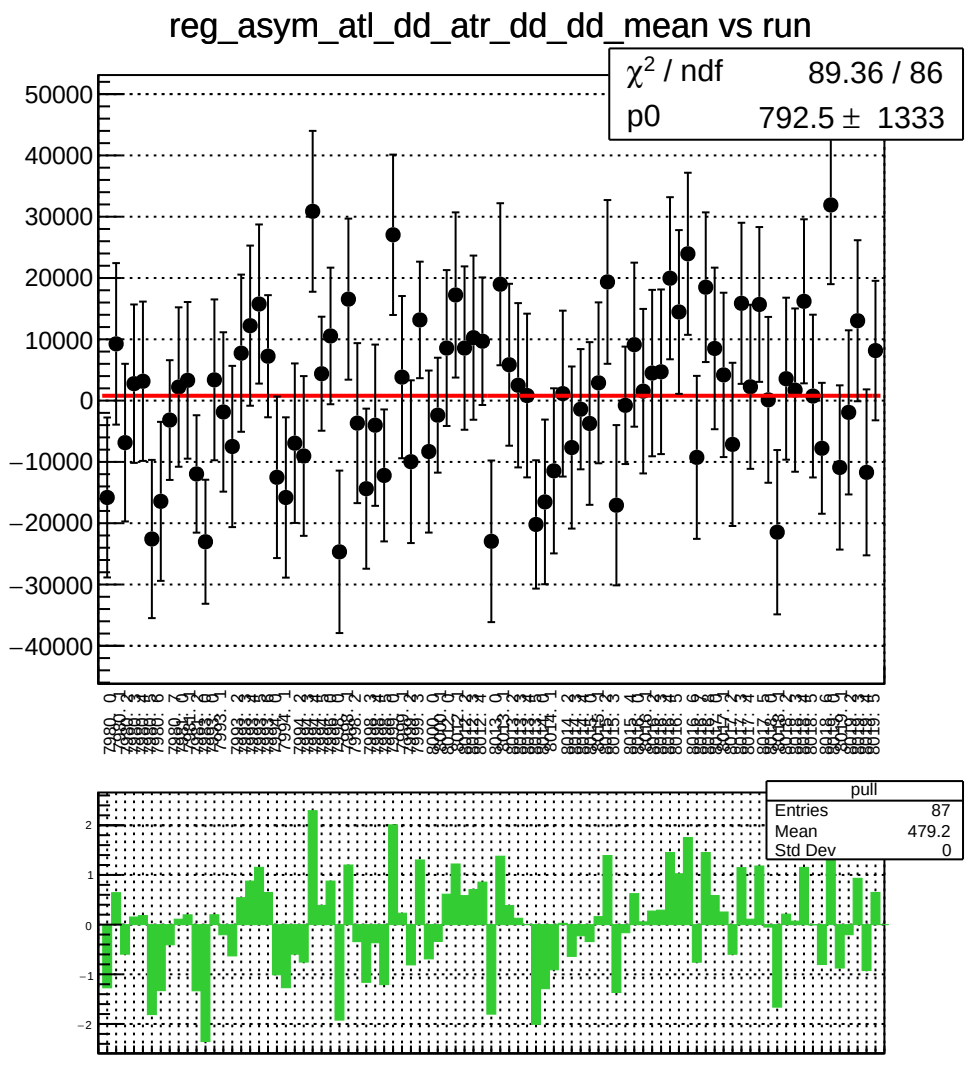

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.51 / 86
p0 −0.009011 ± 0.06462
pull
Entries 87
Mean 34.73
Std Dev 43.28

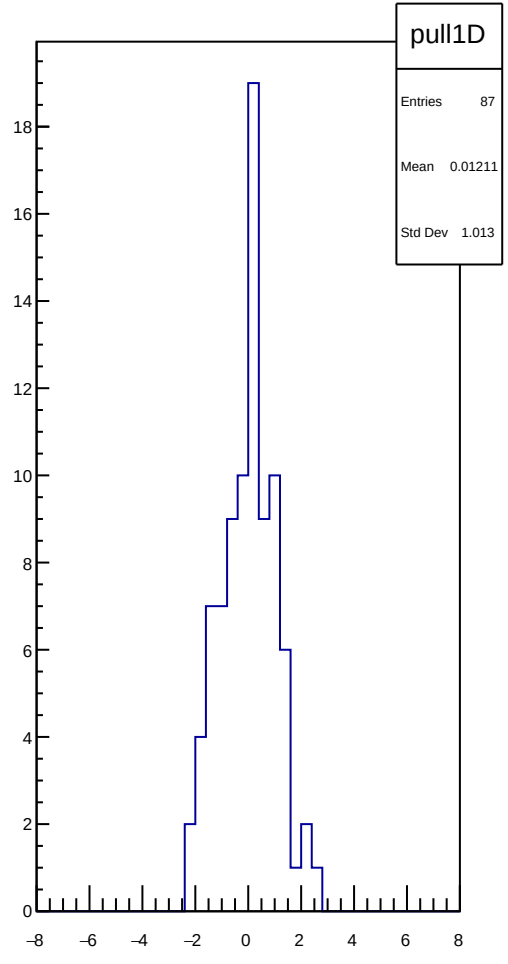

pull1D
Entries 87
Mean −0.04571
Std Dev 1.036

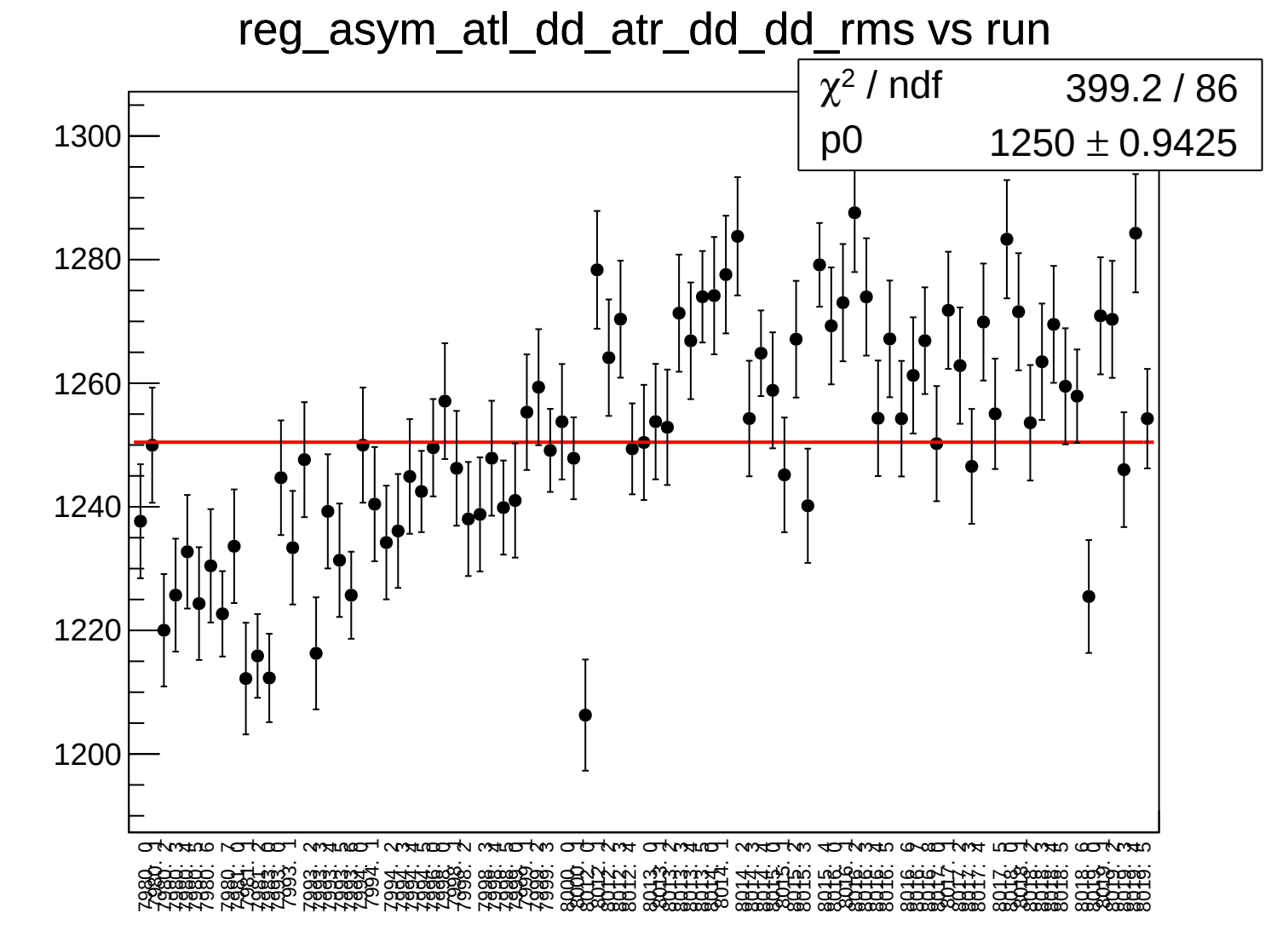

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.515e+05 / 86
p0 57.96 ± 0.04569
180
160
140
120
100
80
60
40
20

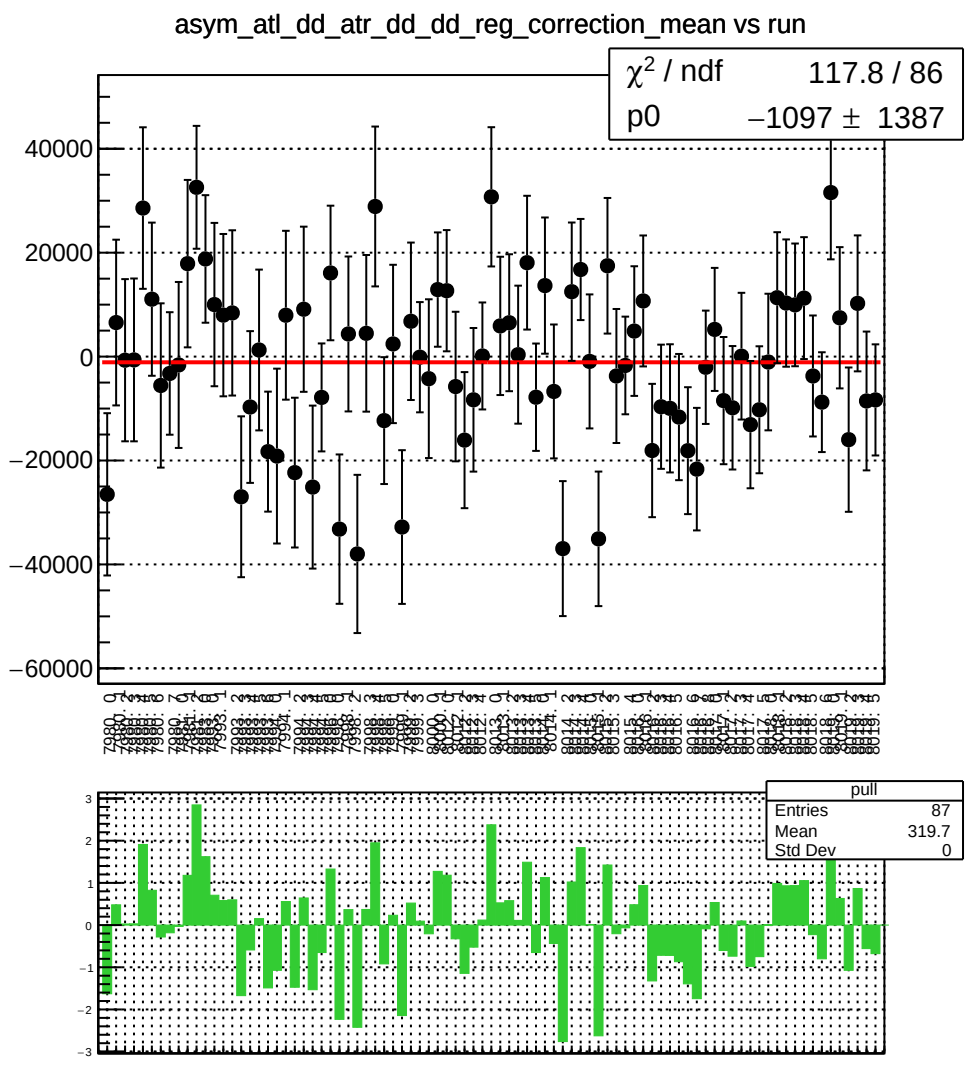

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.6 / 86
p0 −2.324e−14 ± 7.982e−14
pull
Entries 87
Mean 42.68
Std Dev 24.27
pull1D
Entries 87
Mean 0.1061
Std Dev 0.9506

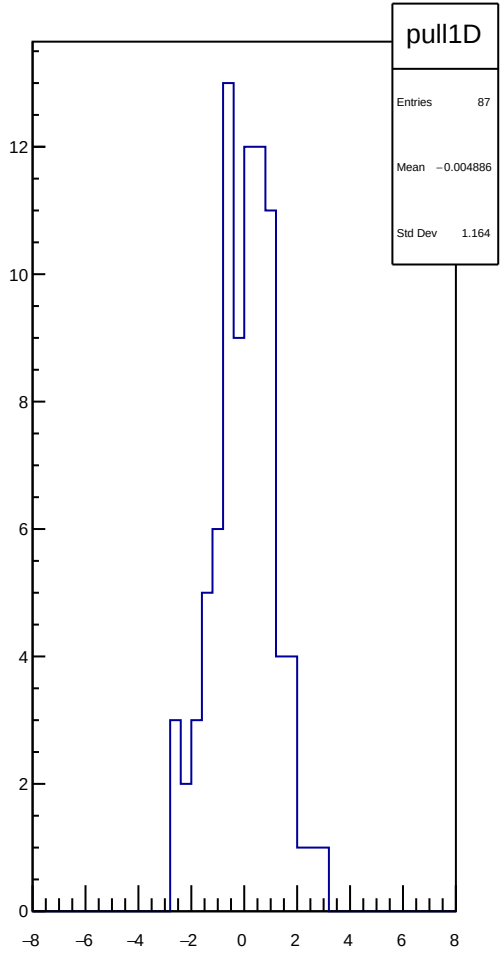

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.408e+05 / 86
p0 5.111e−11 ± 5.644e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

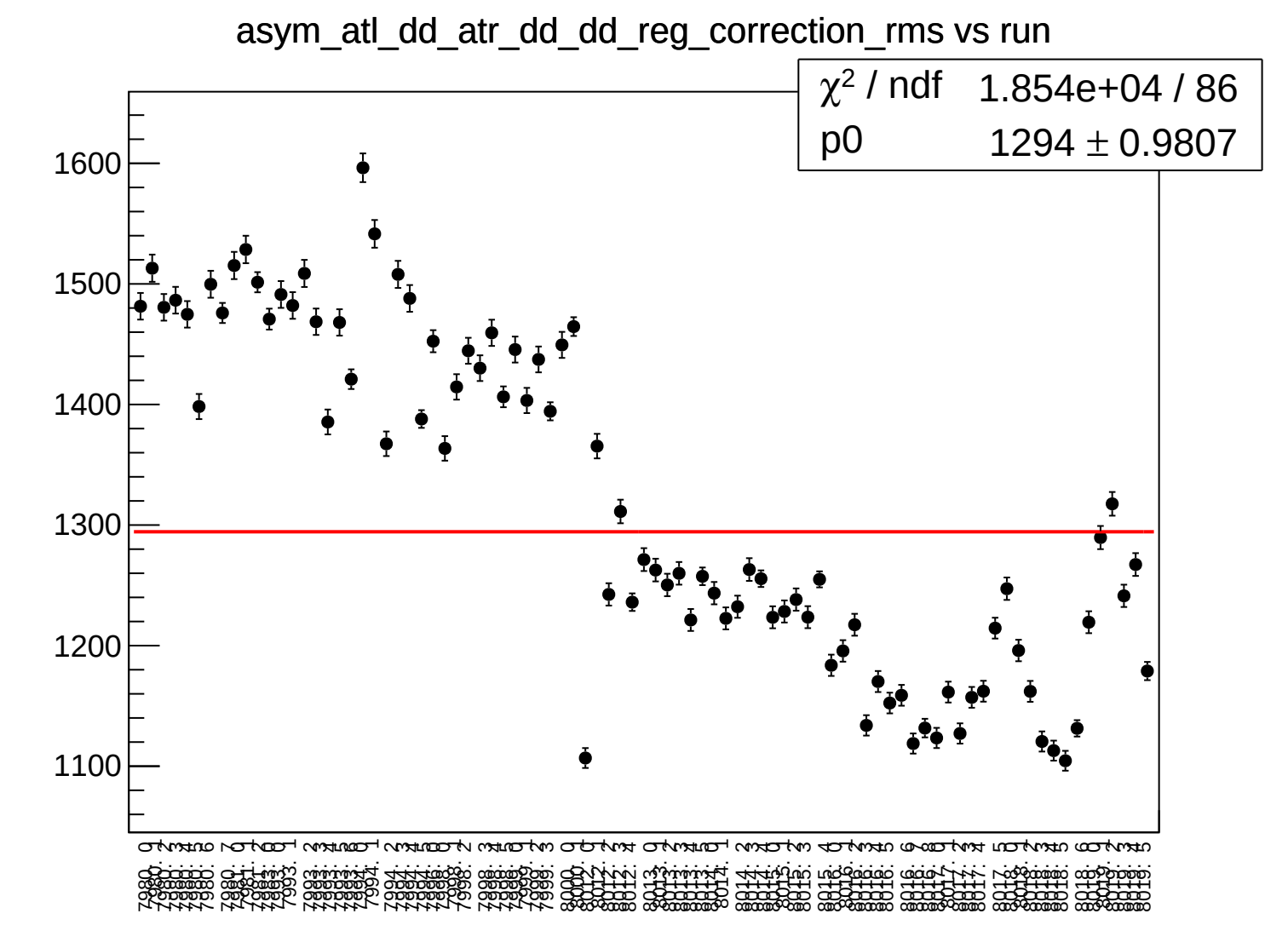

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.36 / 86
p0 792.5 ± 1333
pull
Entries 87
Mean 479.2
Std Dev 0

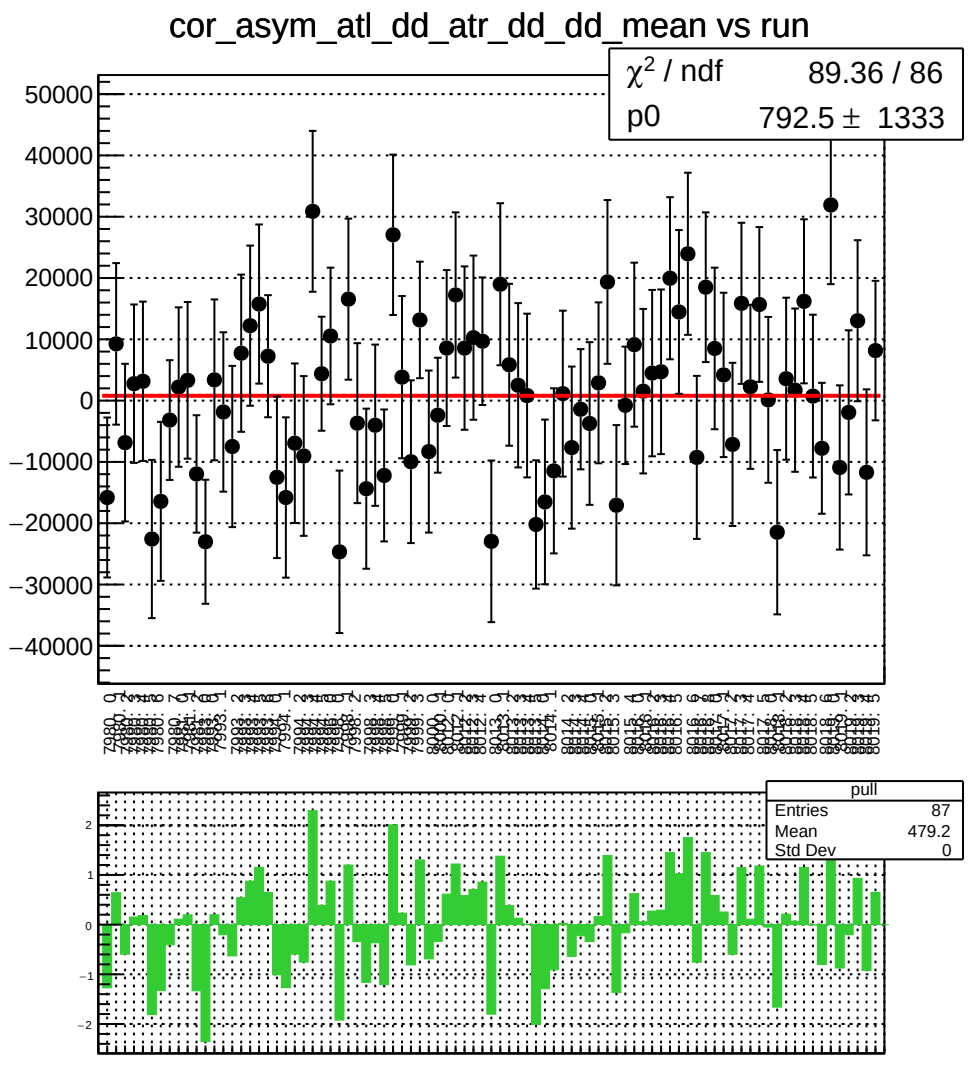

pull1D
Entries 87
Mean 0.01211
Std Dev 1.013

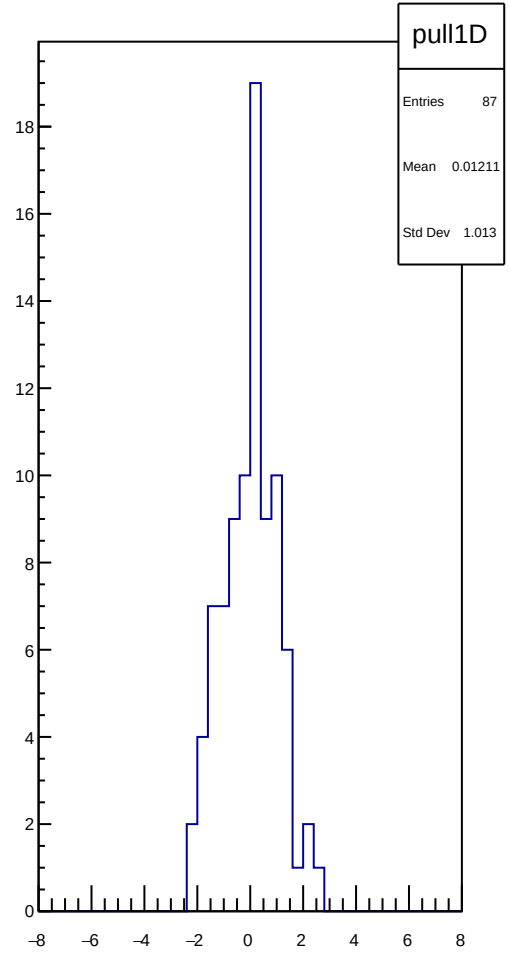

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 399.2 / 86
p0 1250 ± 0.9425
1300
1280
1260
1240
1220
1200

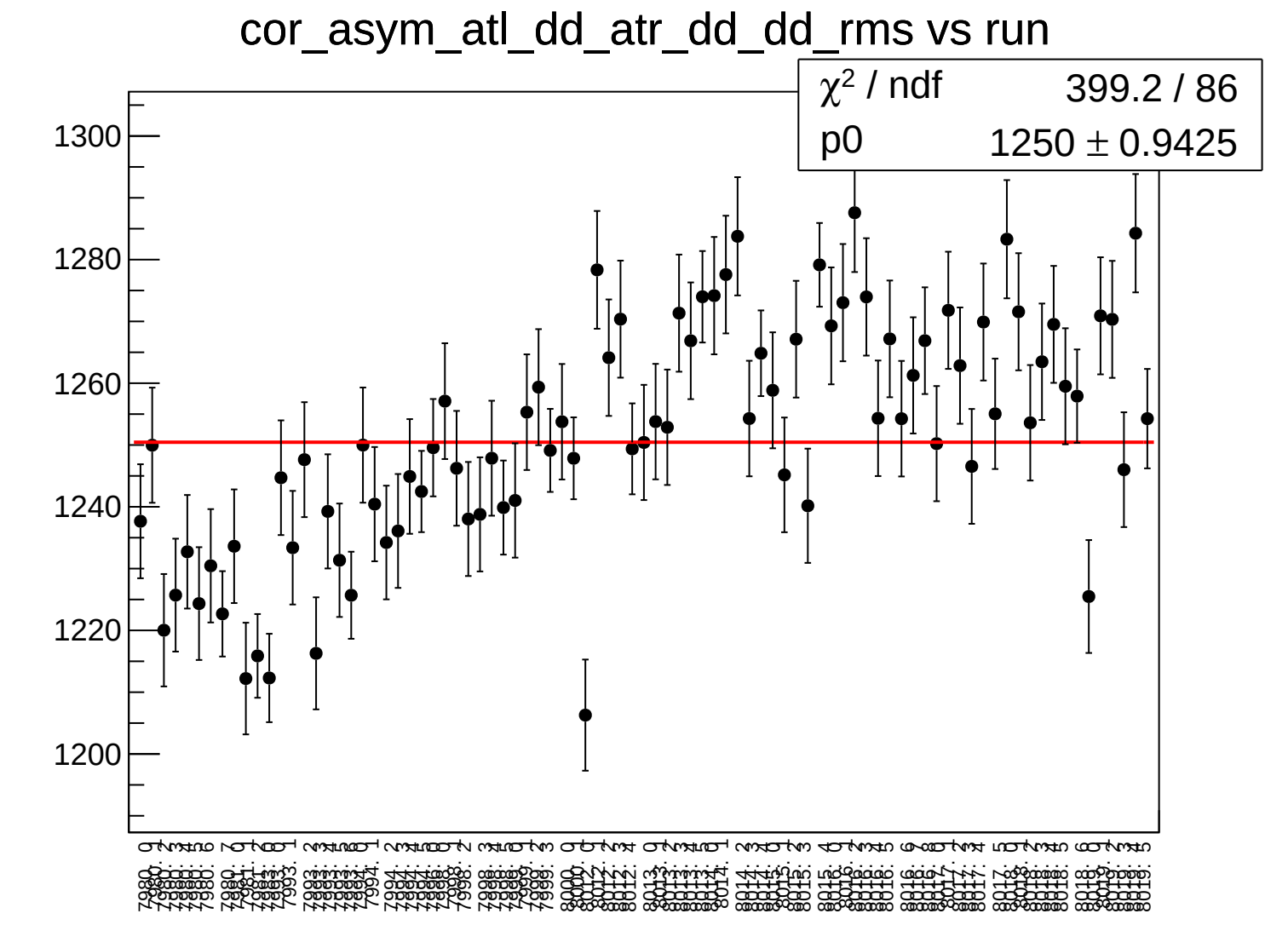

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 117.8 / 86
p0 −1097 ± 1387
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 319.7
Std Dev 0
3
2
1
0
−1
−2
−3

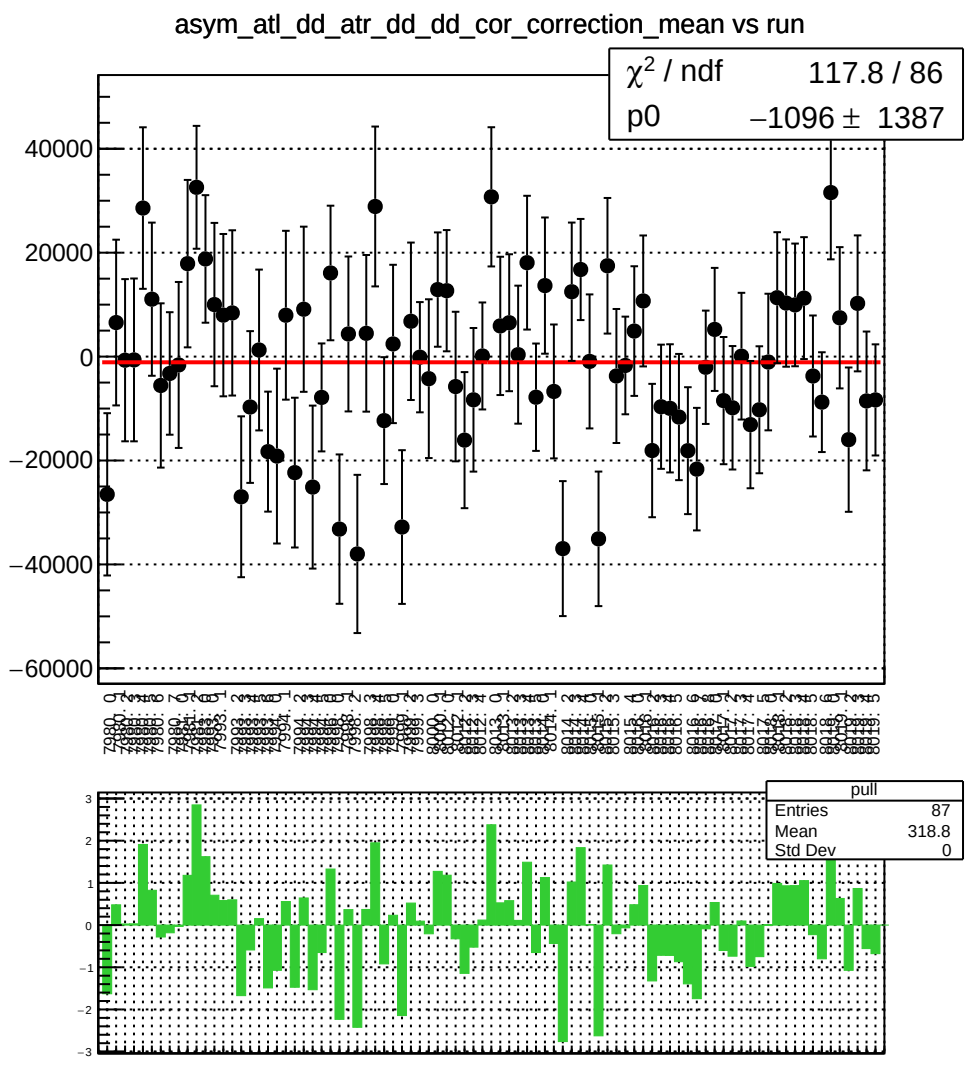

pull1D
Entries 87
Mean −0.004886
Std Dev 1.164
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

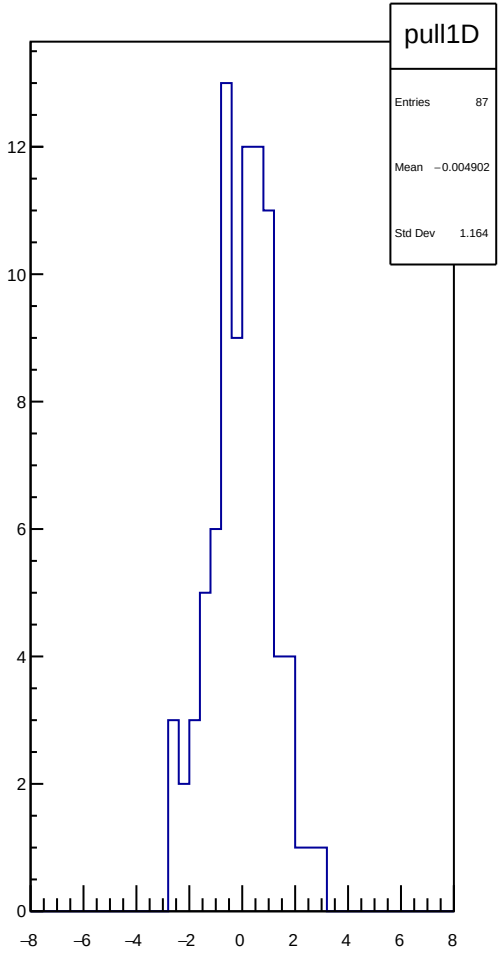

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.854e+04 / 86
p0 1294 ± 0.9807
1600
1500
1400
1300
1200
1100

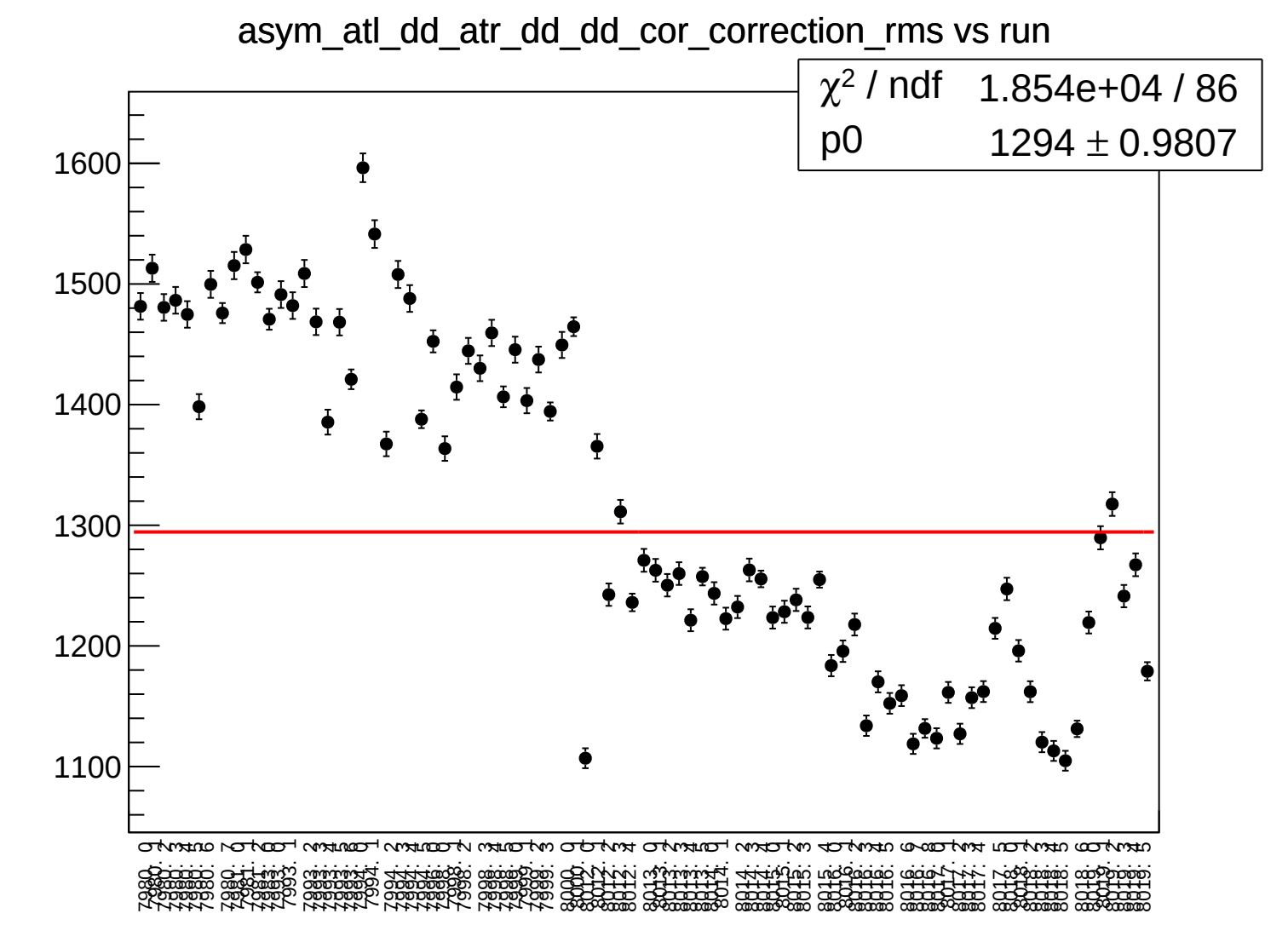

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.36 / 86
p0 792.5 ± 1333
pull
Entries 87
Mean 479.2
Std Dev 0

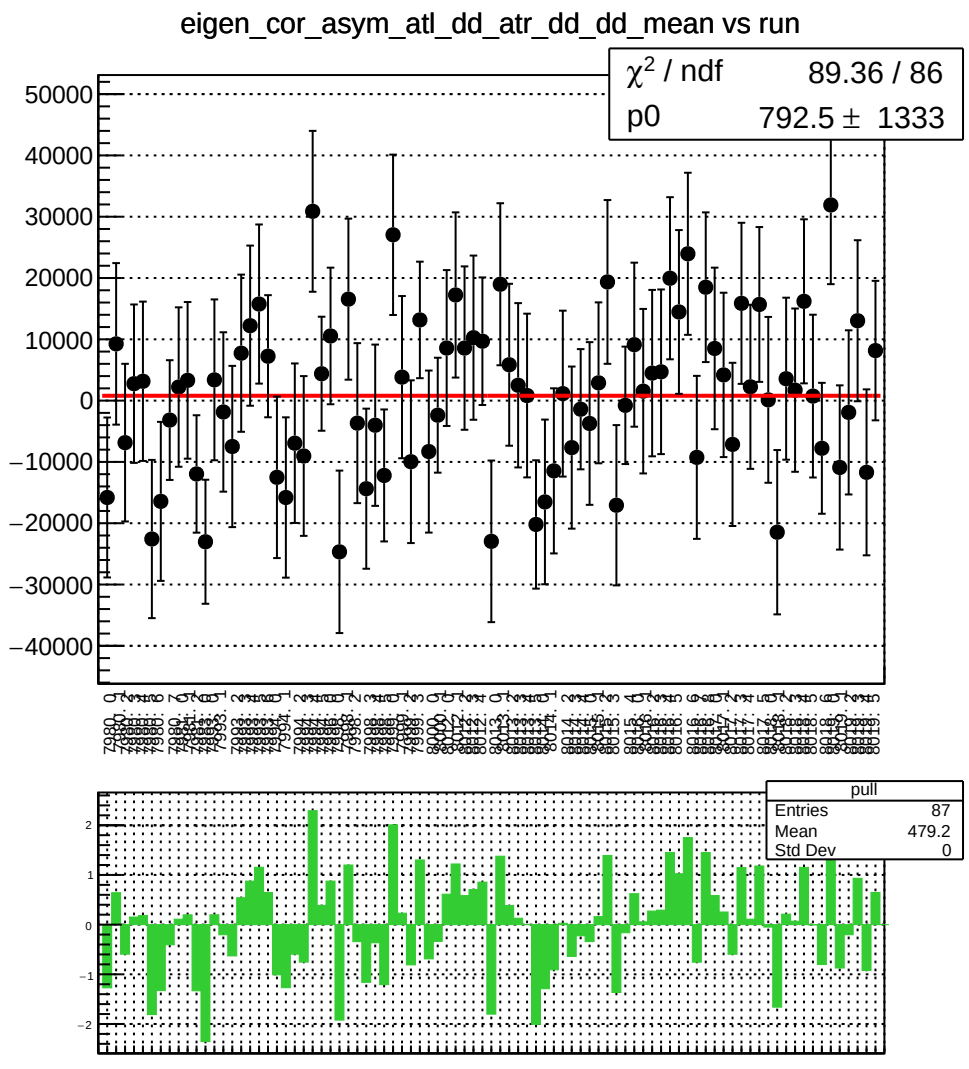

pull1D
Entries 87
Mean 0.01211
Std Dev 1.013

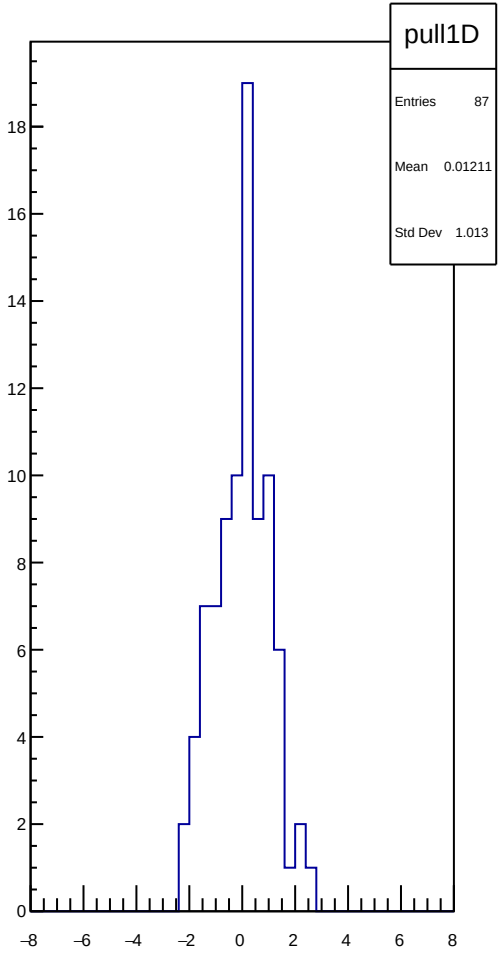

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 399.2 / 86
p0 1250 ± 0.9425
1300
1280
1260
1240
1220
1200

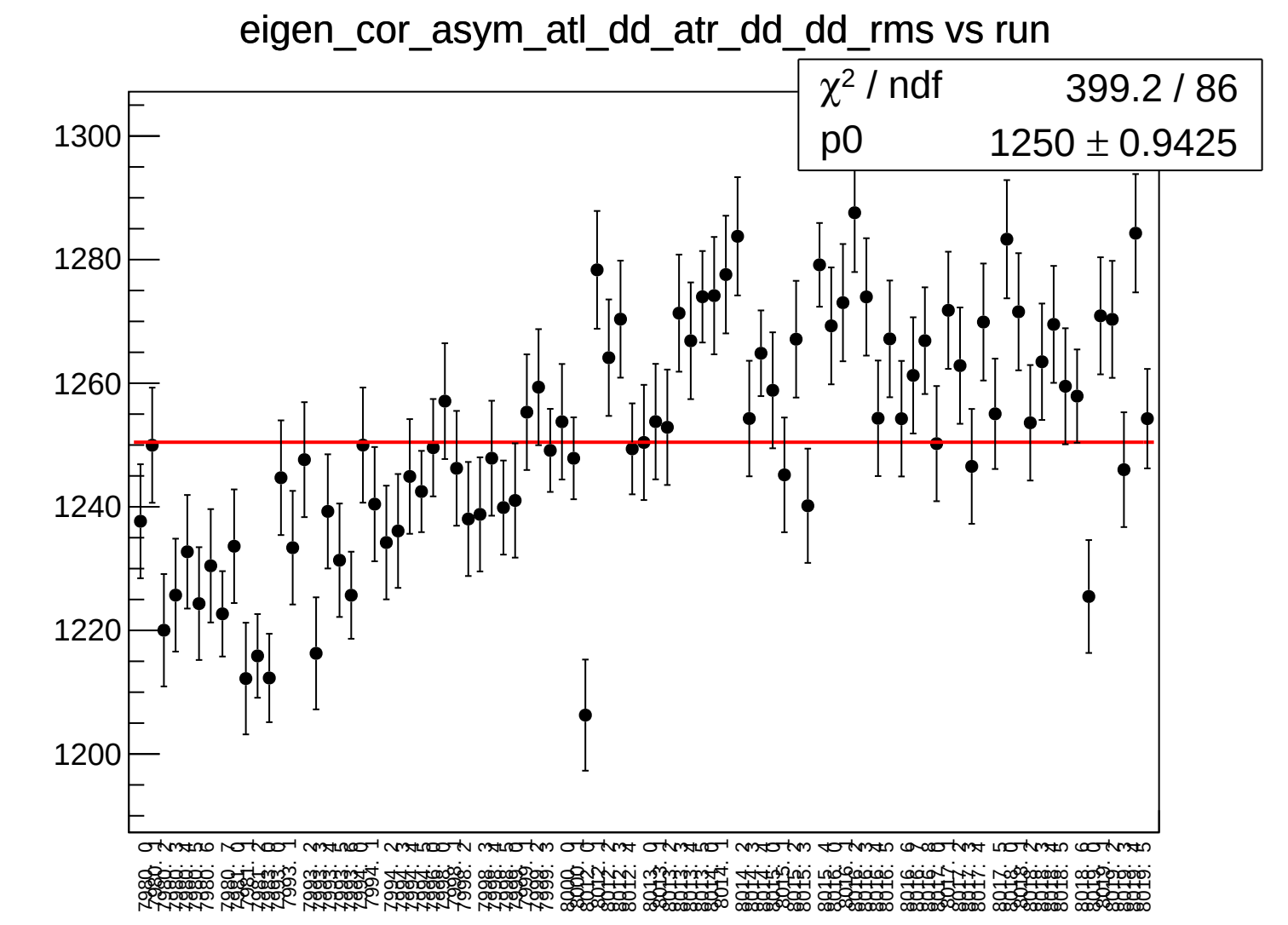

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 117.8 / 86
p0 −1096 ± 1387
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 318.8
Std Dev 0
3
2
1
0
−1
−2
−3

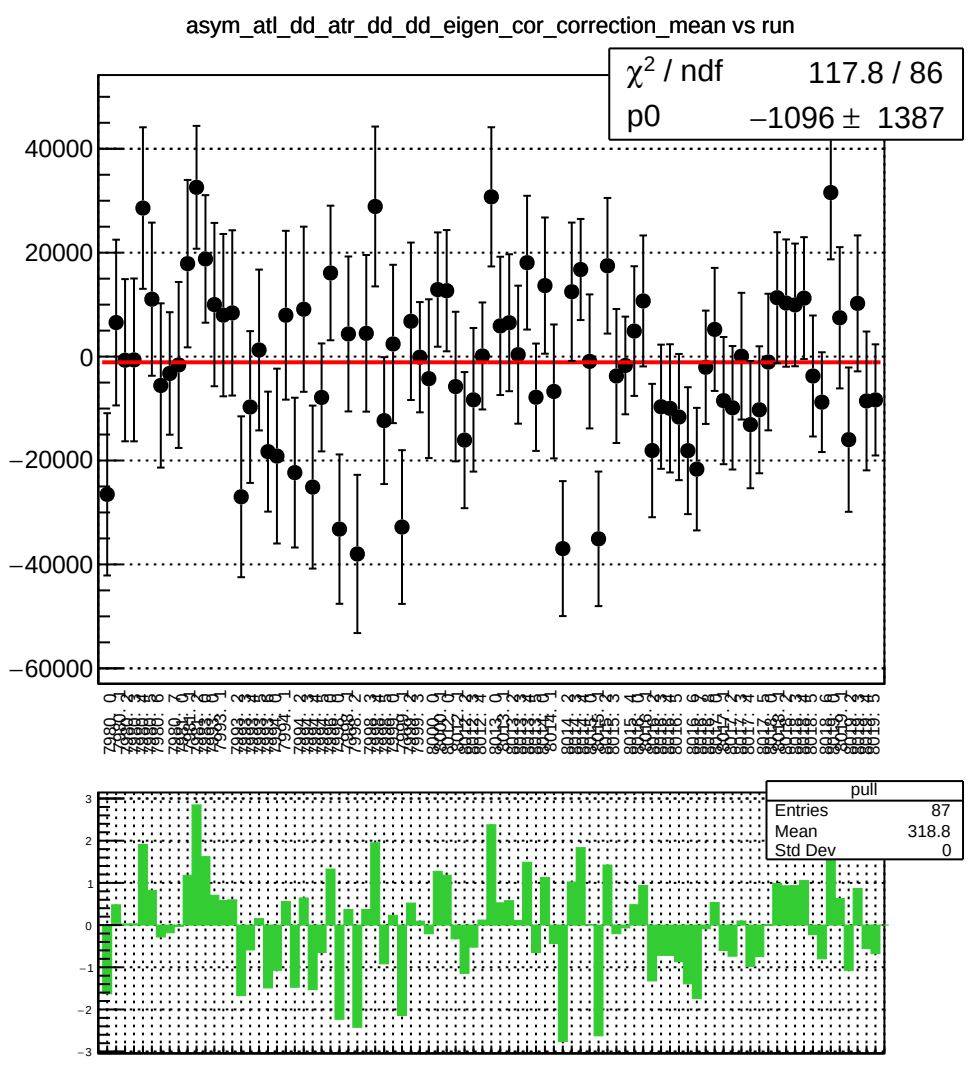

pull1D
Entries 87
Mean −0.004902
Std Dev 1.164
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

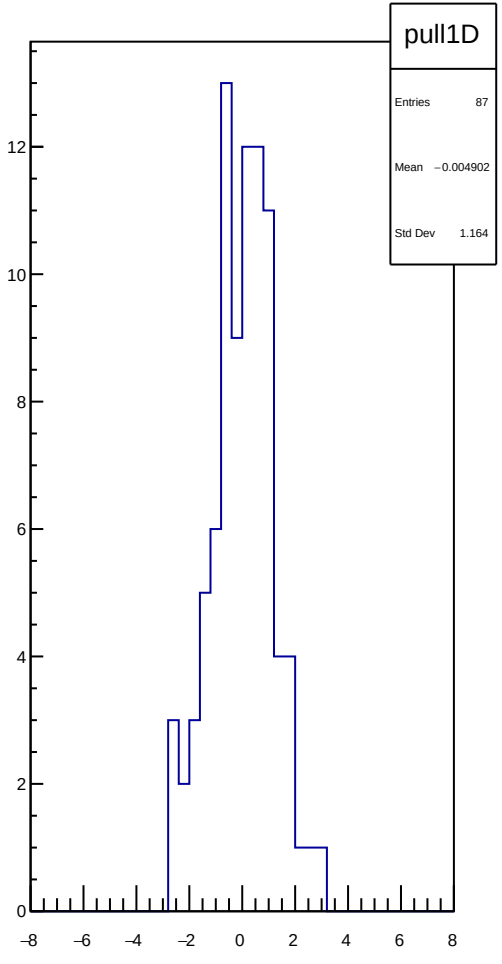

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.854e+04 / 86
p0 1294 ± 0.9807
1600
1500
1400
1300
1200
1100

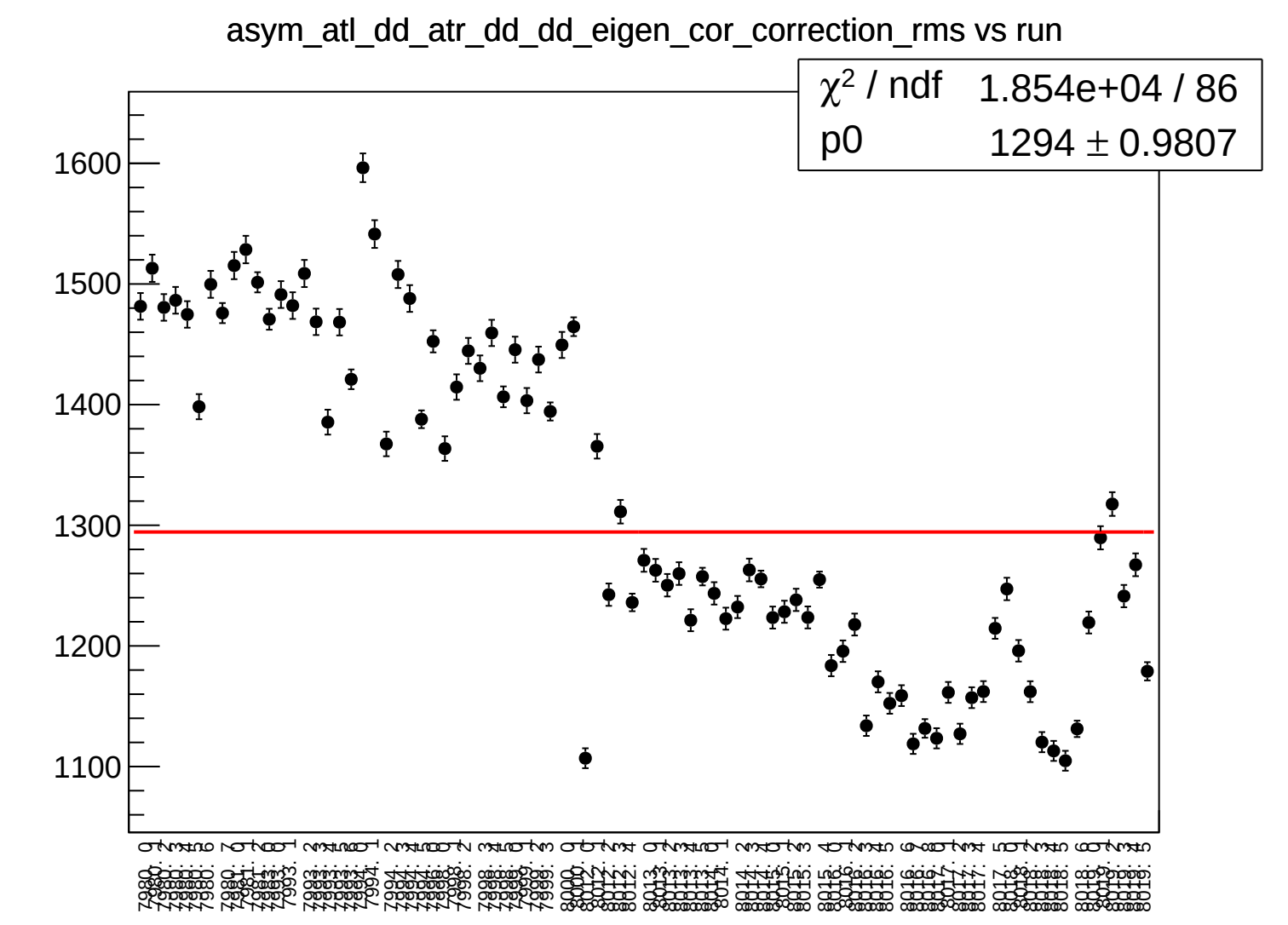

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.36 / 86
p0 792.5 ± 1333
pull
Entries 87
Mean 479.2
Std Dev 0

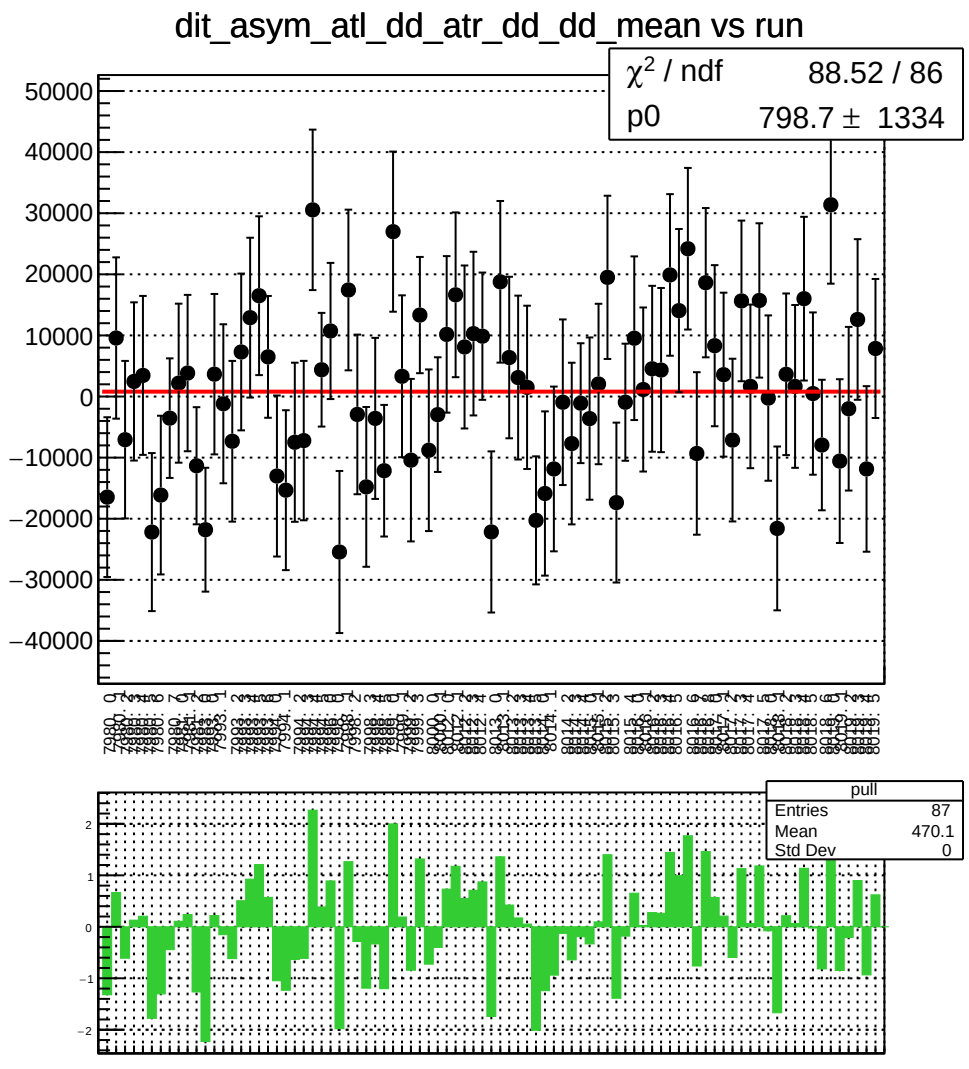

pull1D
Entries 87
Mean 0.01211
Std Dev 1.013

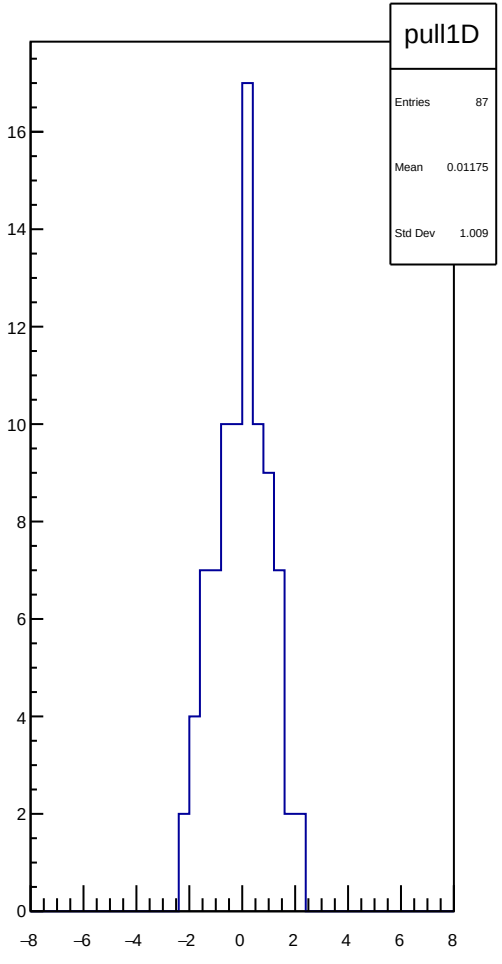

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 399.2 / 86
p0 1250 ± 0.9425
1300
1280
1260
1240
1220
1200

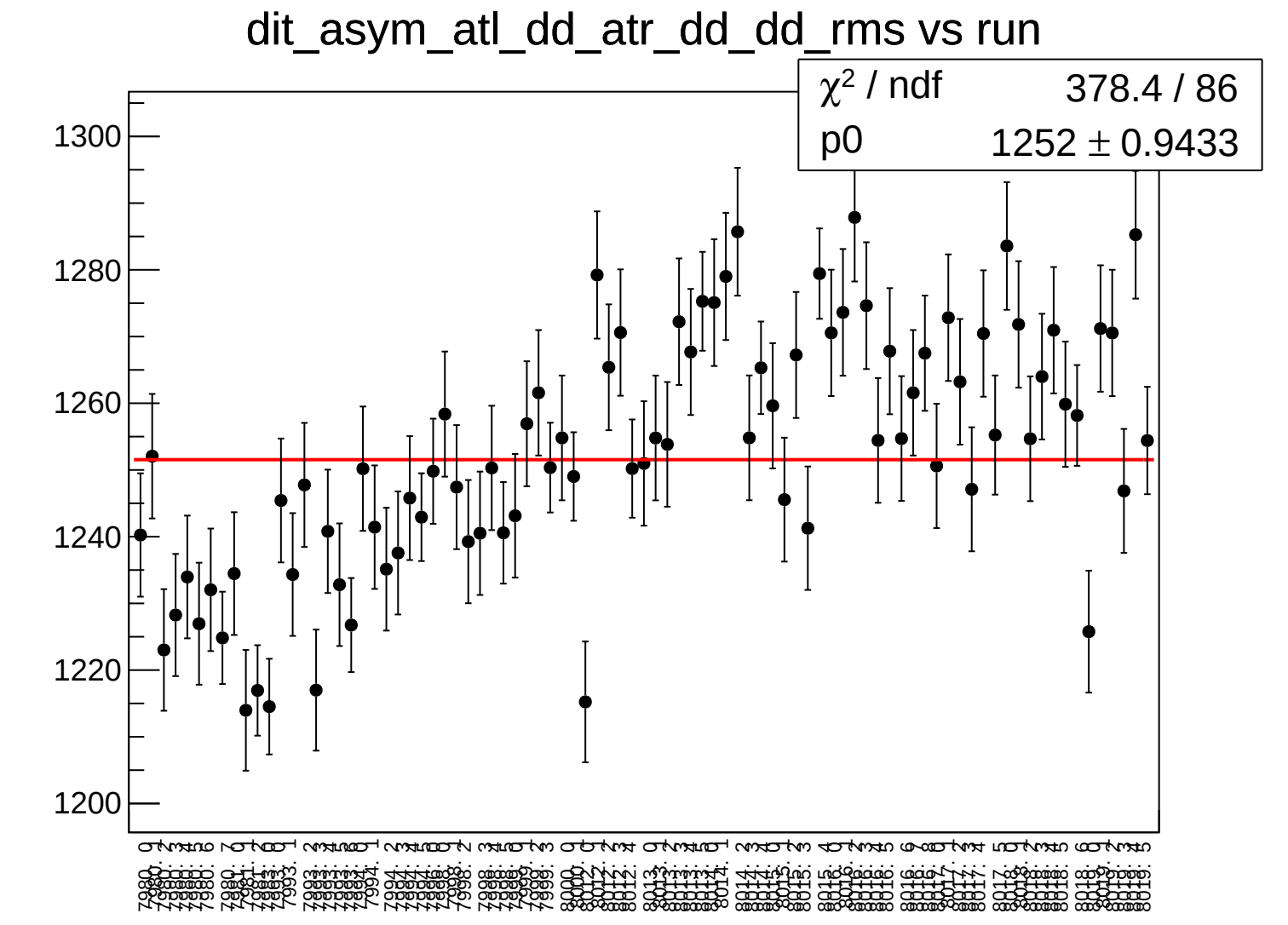

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 117.8 / 86
p0 −1096 ± 1387
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 318.8
Std Dev 0
3
2
1
0
−1
−2
−3

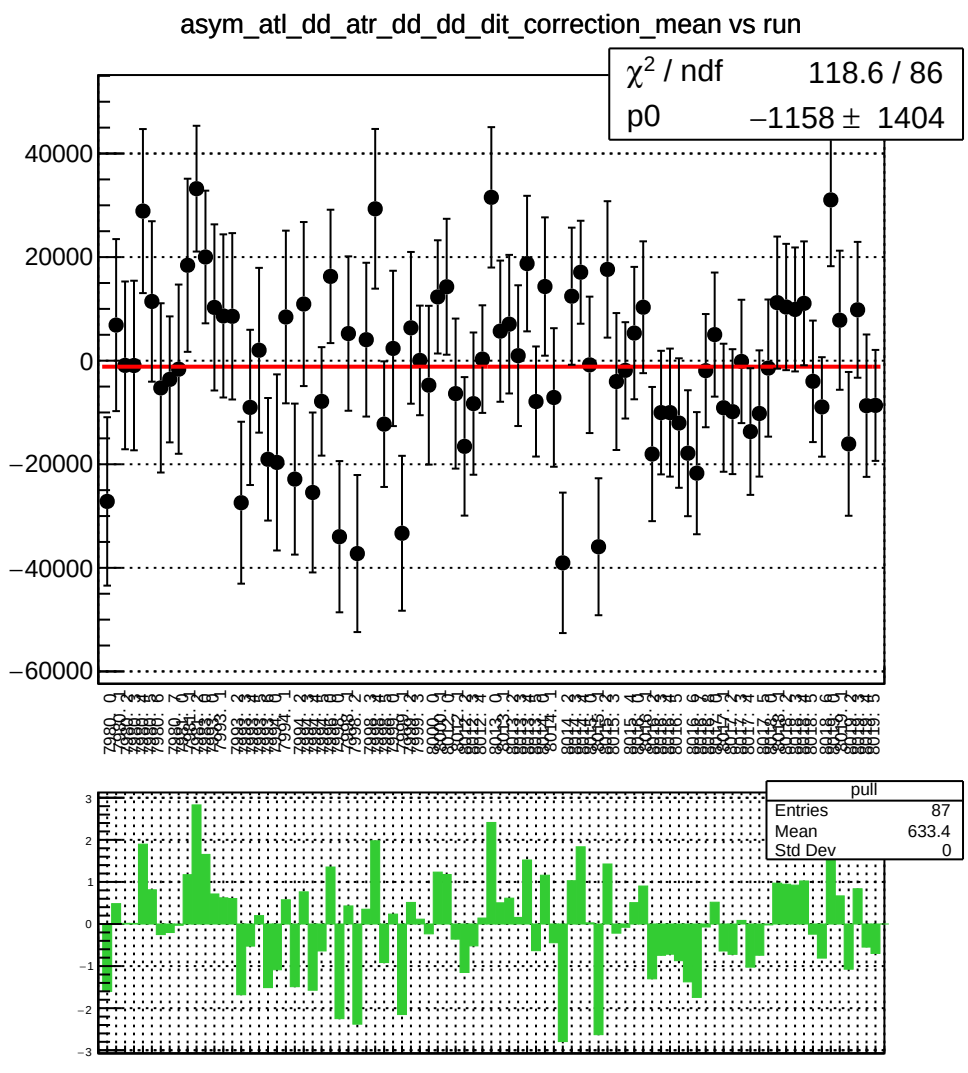

pull1D
Entries 87
Mean −0.004902
Std Dev 1.164
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

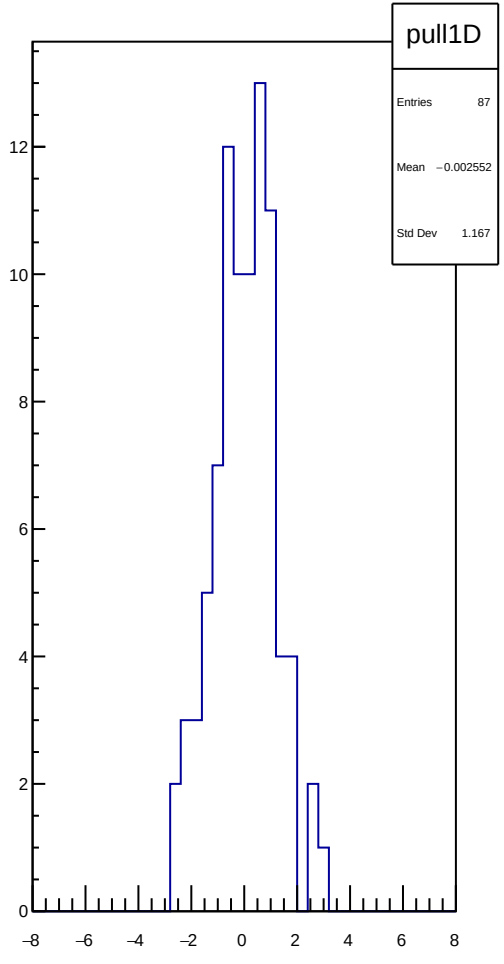

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.854e+04 / 86
p0 1294 ± 0.9807
1600
1500
1400
1300
1200
1100

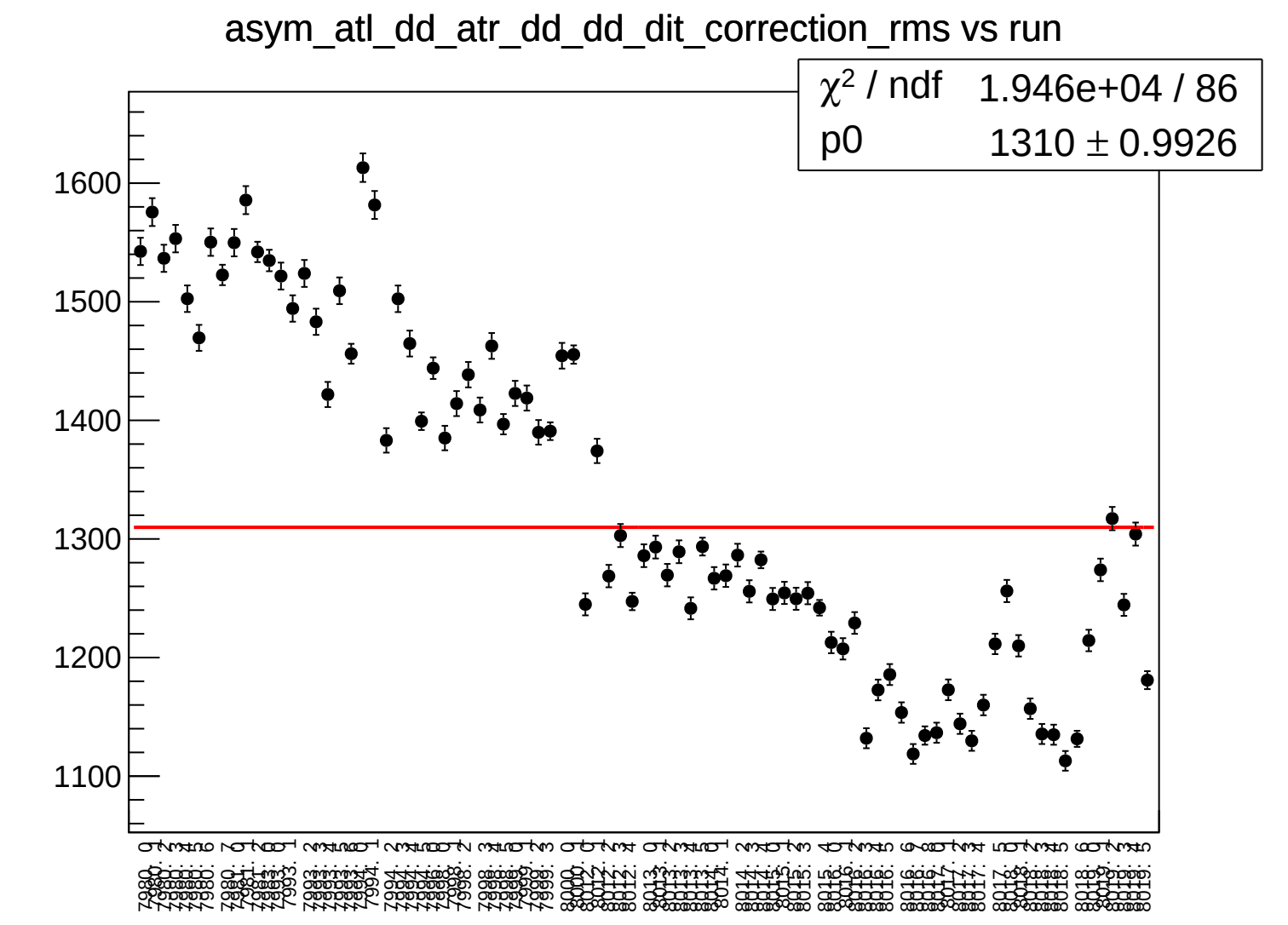

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 88.52 / 86
p0 798.7 ± 1334
pull
Entries 87
Mean 470.1
Std Dev 0

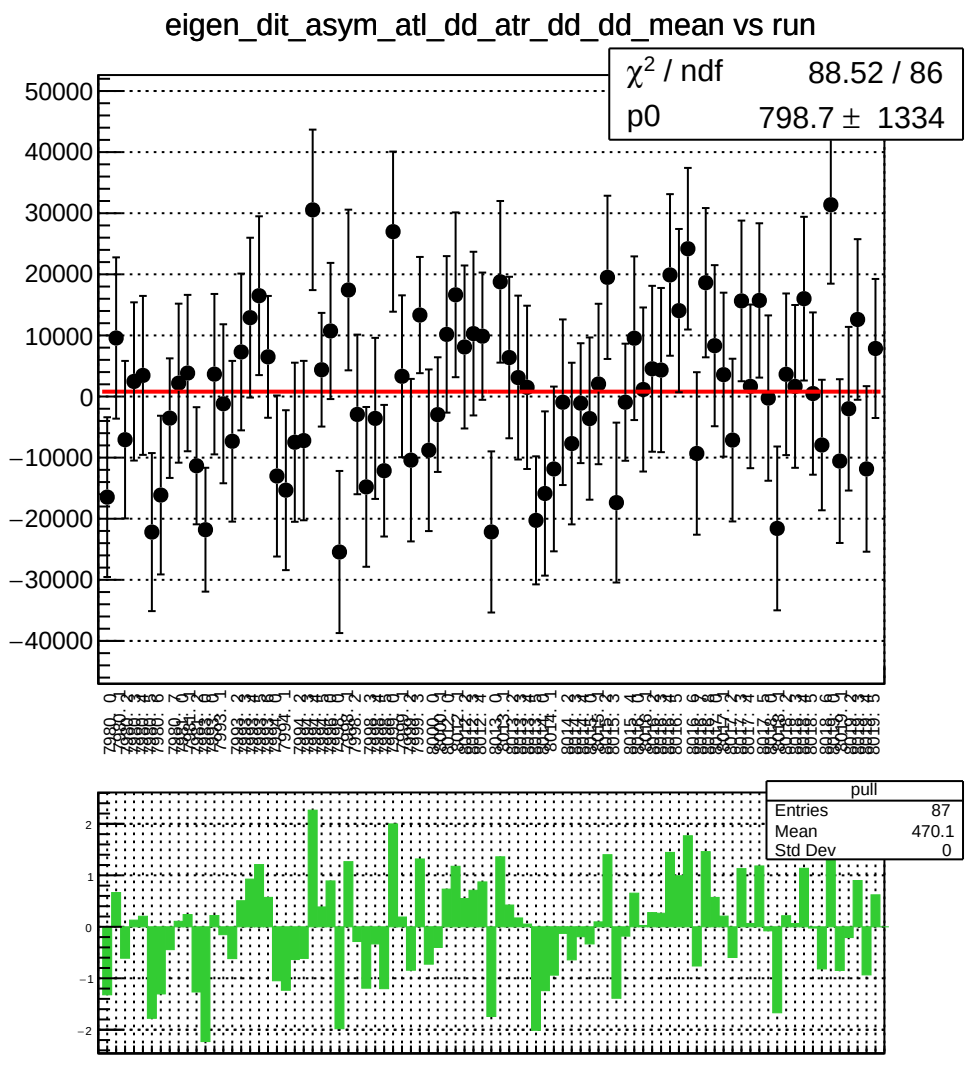

pull1D
Entries 87
Mean 0.01175
Std Dev 1.009

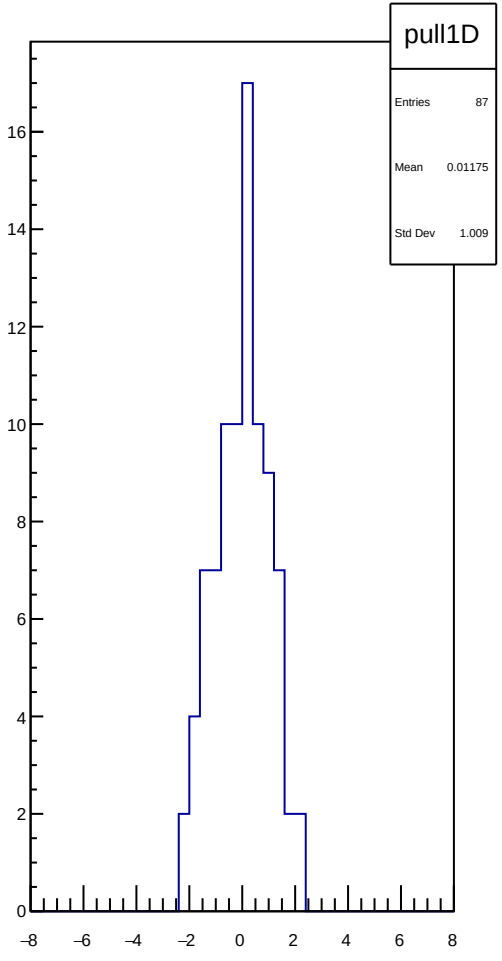

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 378.4 / 86
p0 1252 ± 0.9433
1300
1280
1260
1240
1220
1200

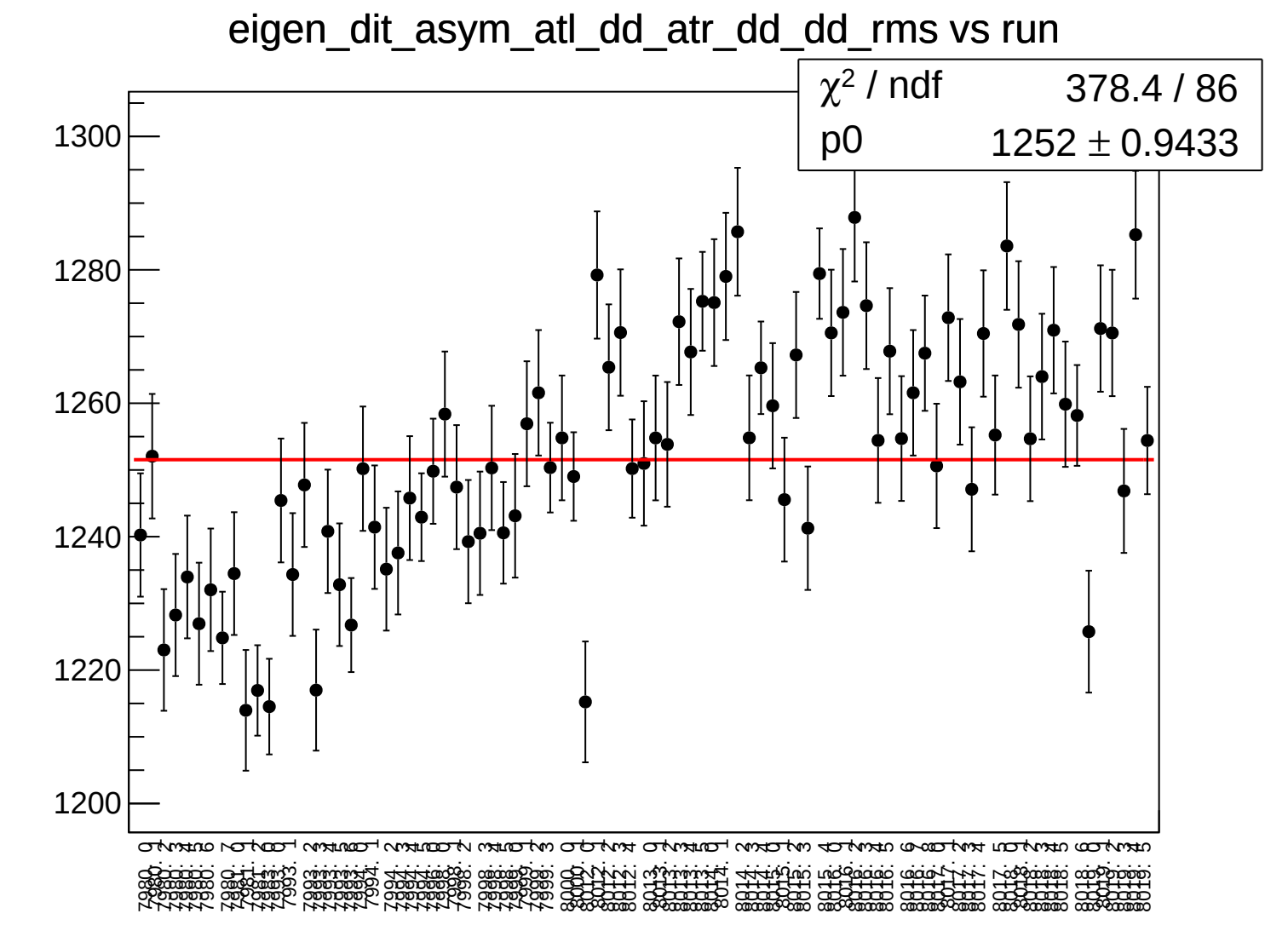

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 118.6 / 86
p0 −1158 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 633.4
Std Dev 0
3
2
1
0
−1
−2
−3

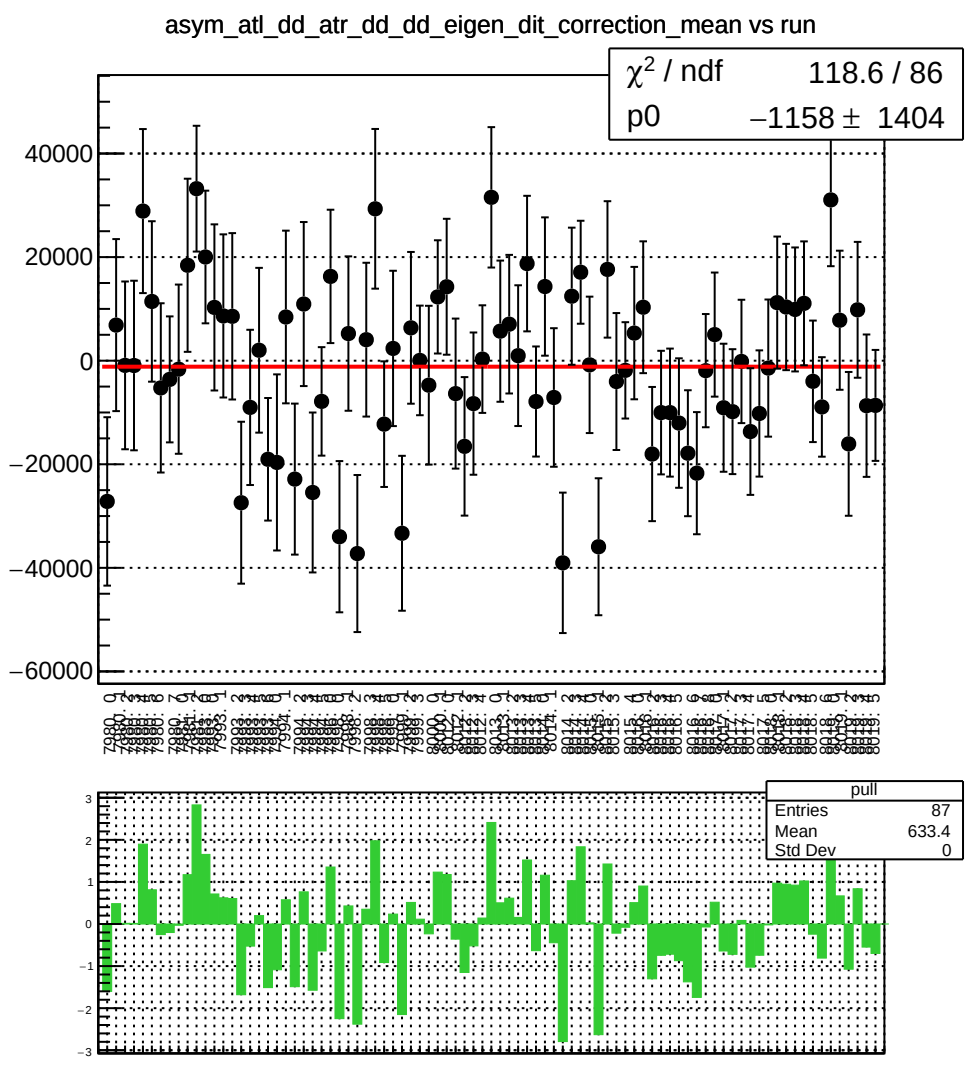

pull1D
Entries 87
Mean −0.002552
Std Dev 1.167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

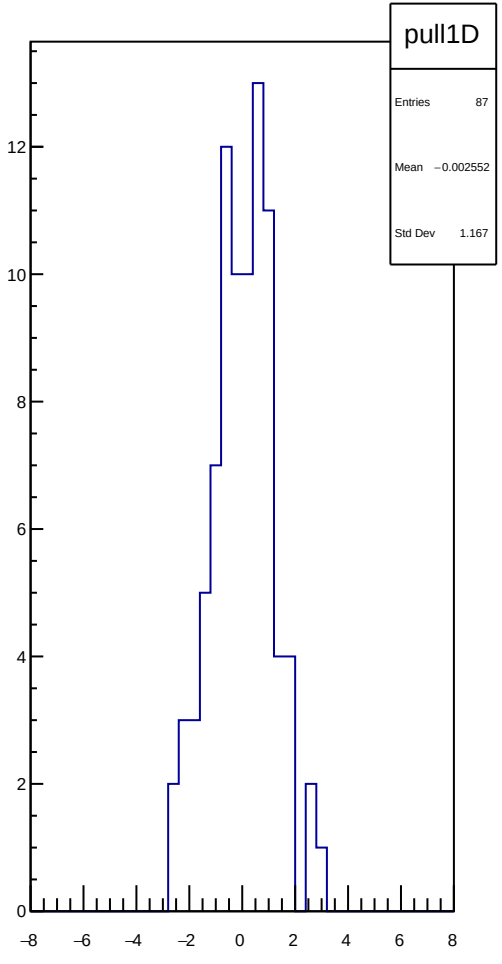

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.946e+04 / 86
p0 1310 ± 0.9926
1600
1500
1400
1300
1200
1100

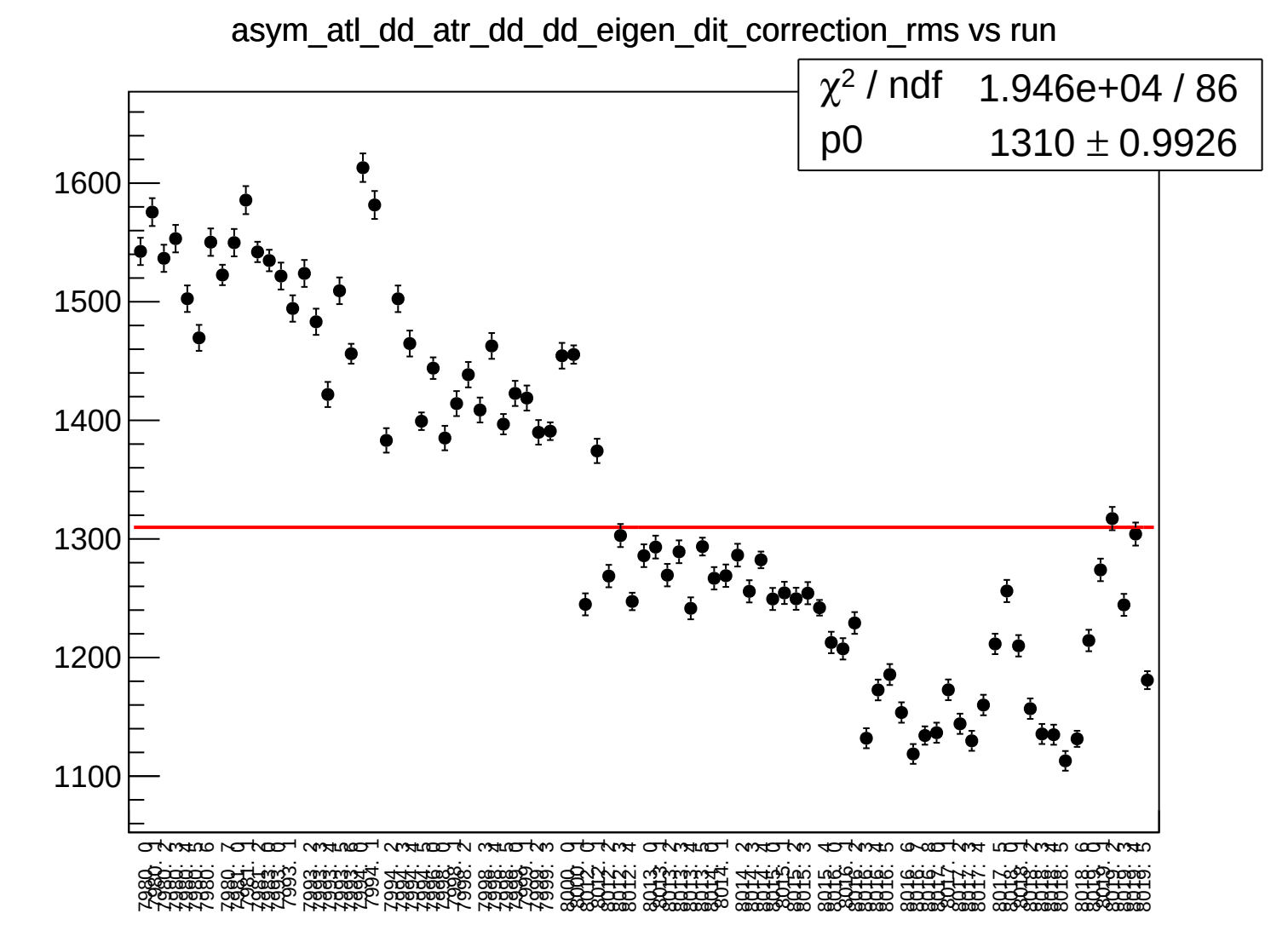

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 88.52 / 86
p0 798.7 ± 1334
pull
Entries 87
Mean 470.1
Std Dev 0

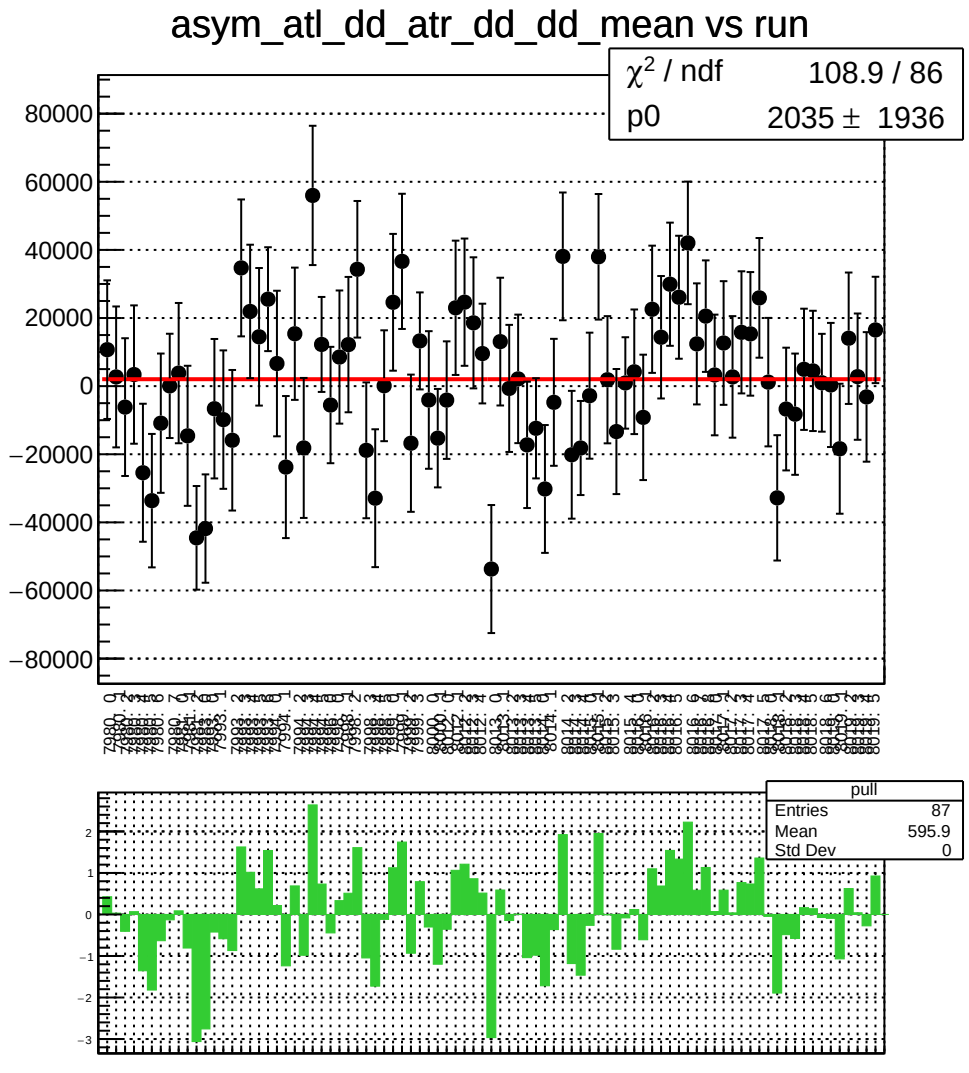

pull1D
Entries 87
Mean 0.01175
Std Dev 1.009

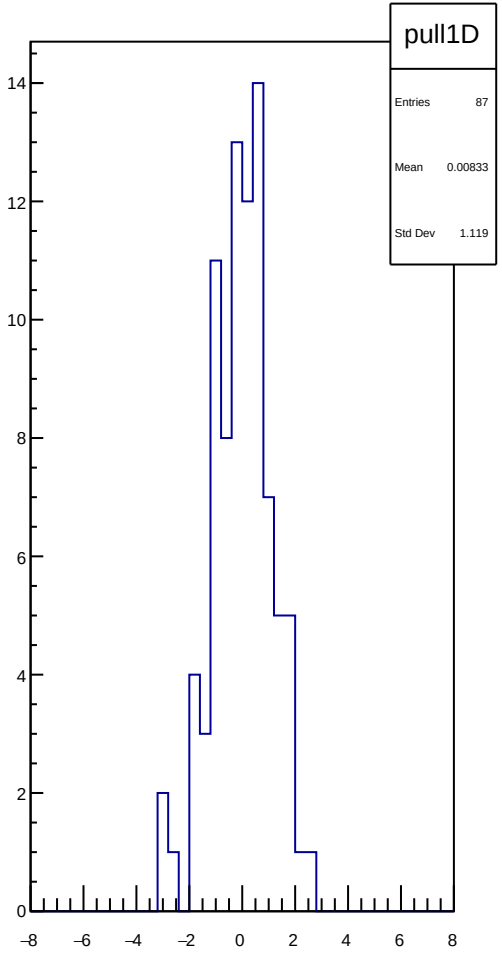

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 378.4 / 86
p0 1252 ± 0.9433
1300
1280
1260
1240
1220
1200

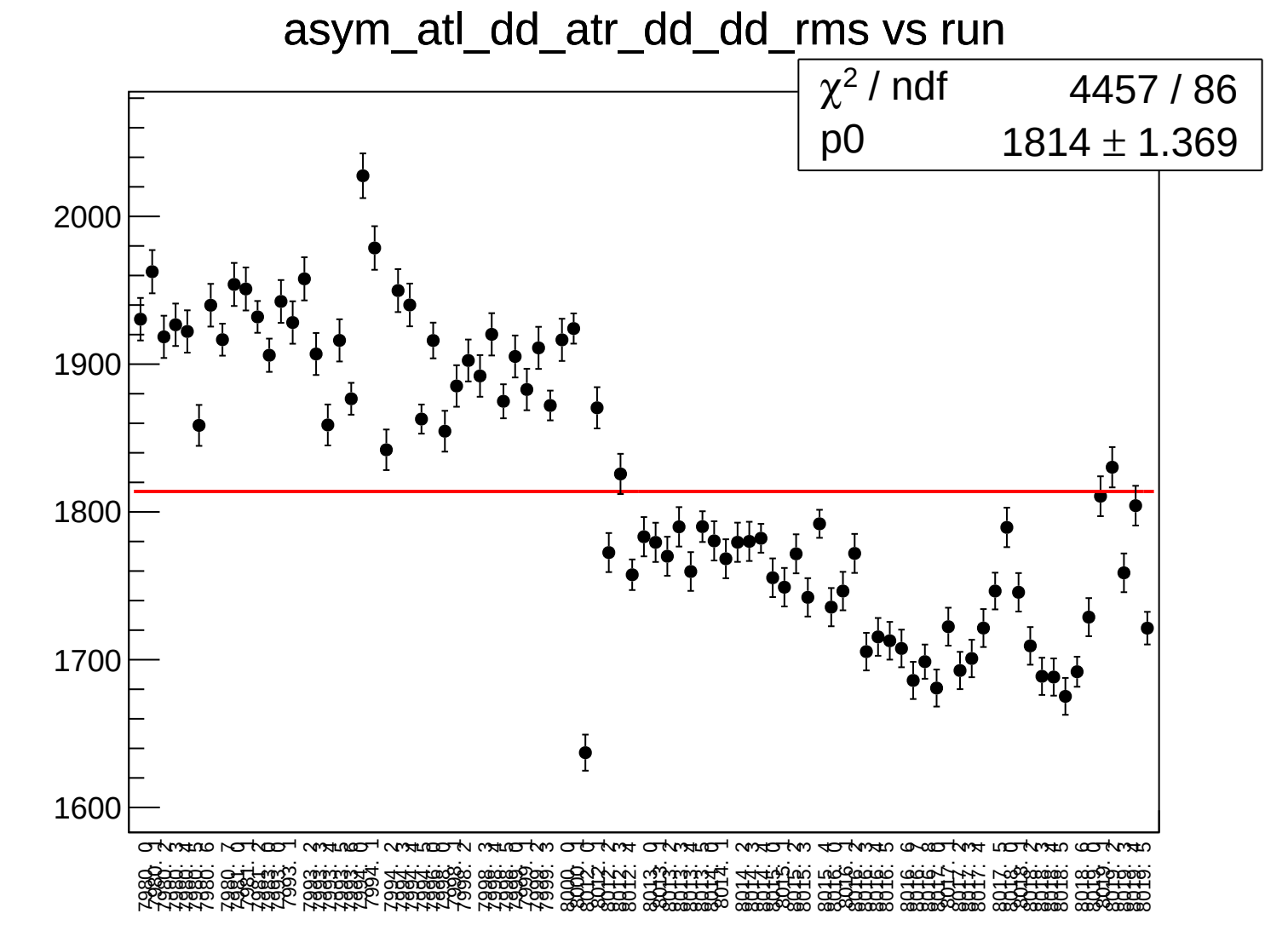

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 118.6 / 86
p0 −1158 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 633.4
Std Dev 0
3
2
1
0
−1
−2
−3

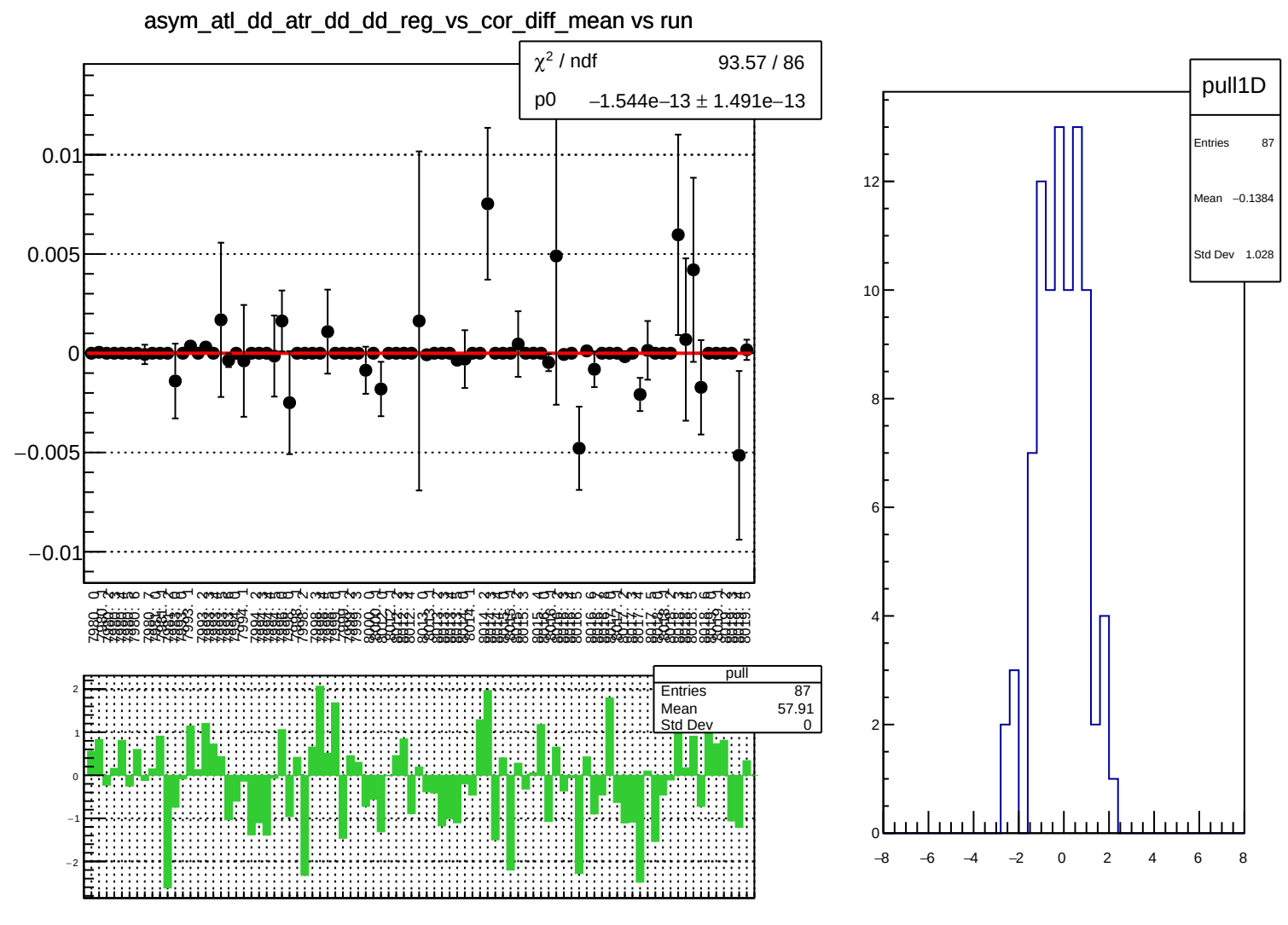

pull1D
Entries 87
Mean −0.002552
Std Dev 1.167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

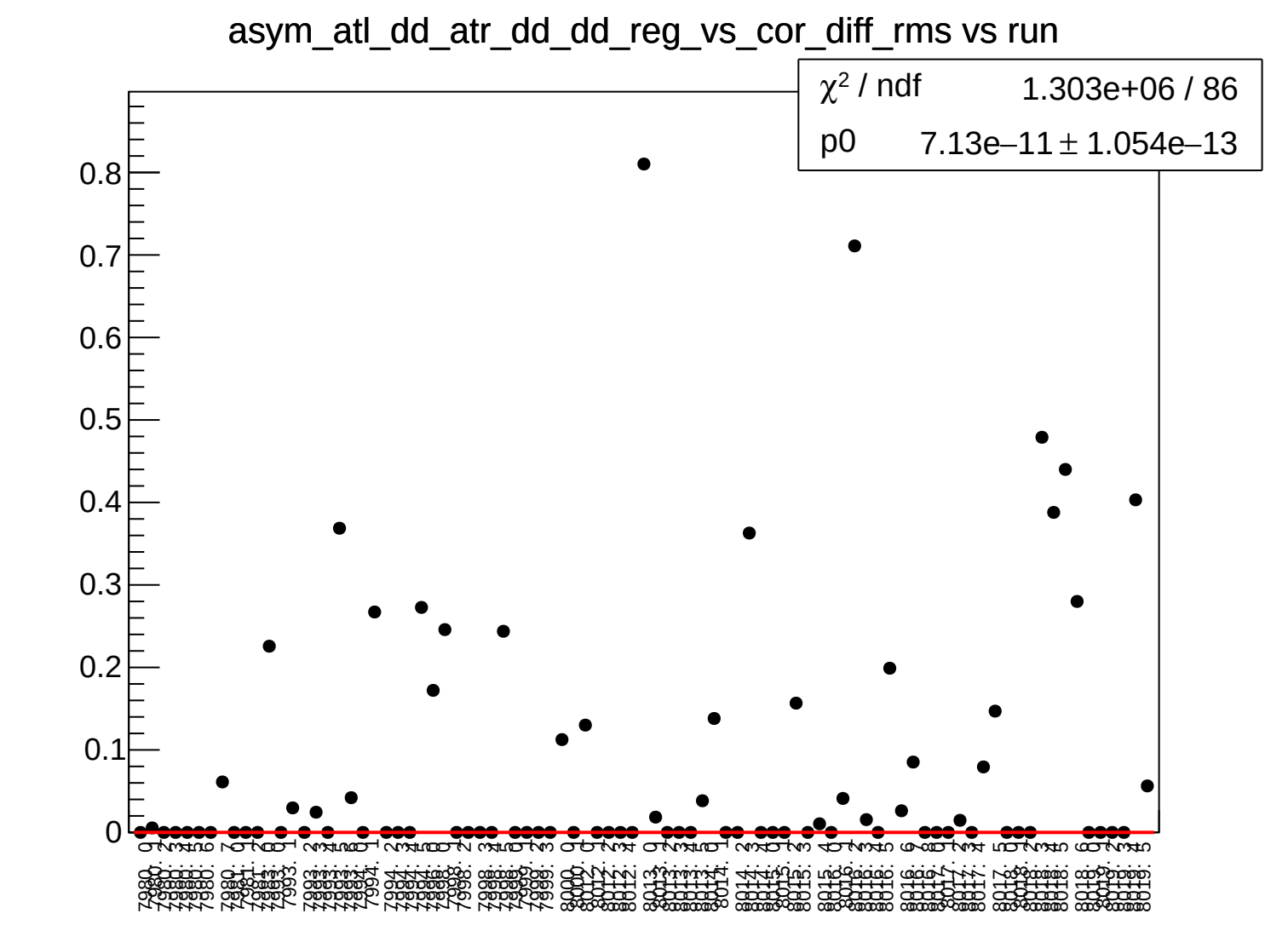

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.946e+04 / 86
p0 1310 ± 0.9926
1600
1500
1400
1300
1200
1100

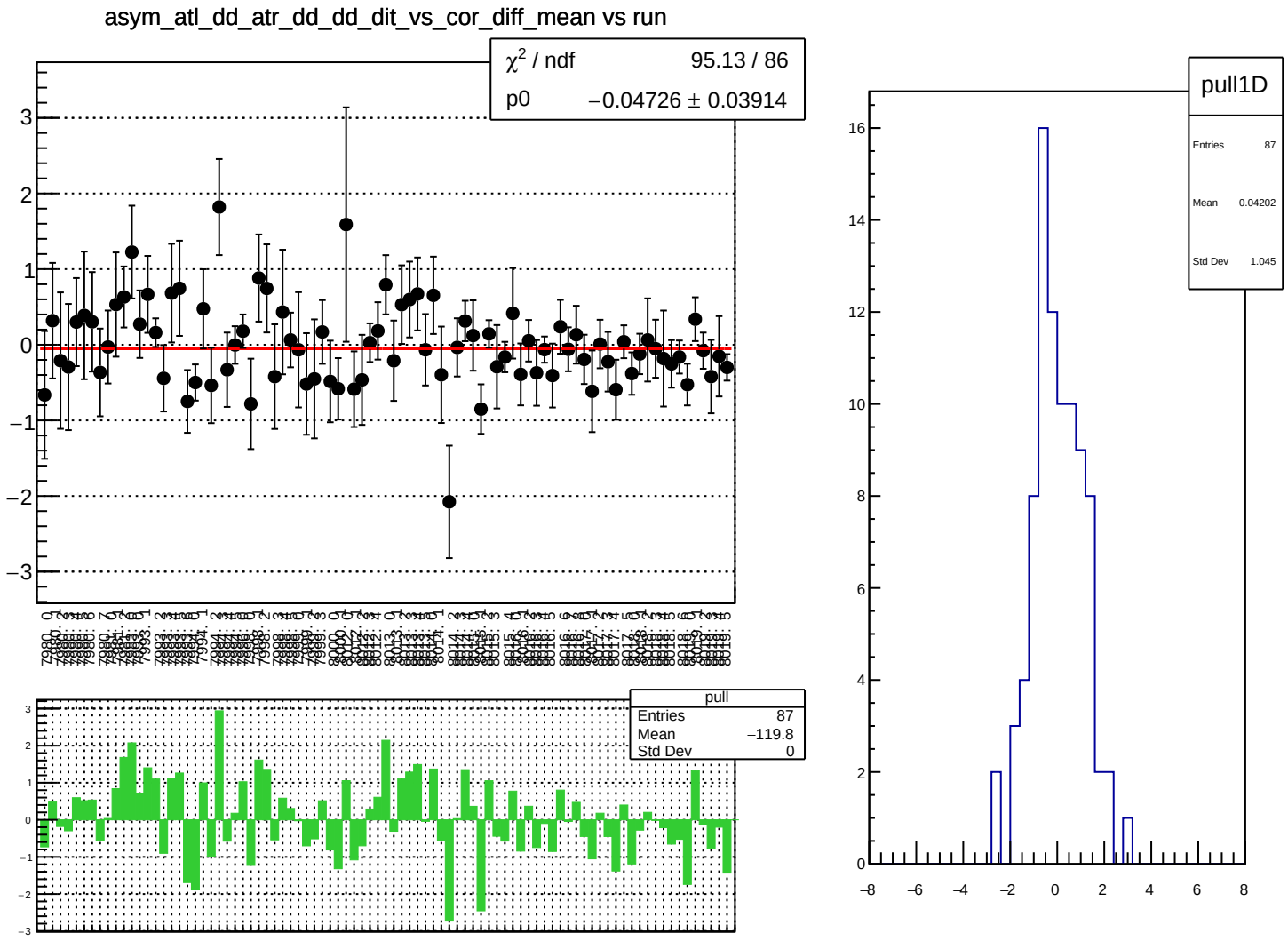

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 108.9 / 86
p0 2035 ± 1936
pull
Entries 87
Mean 595.9
Std Dev 0

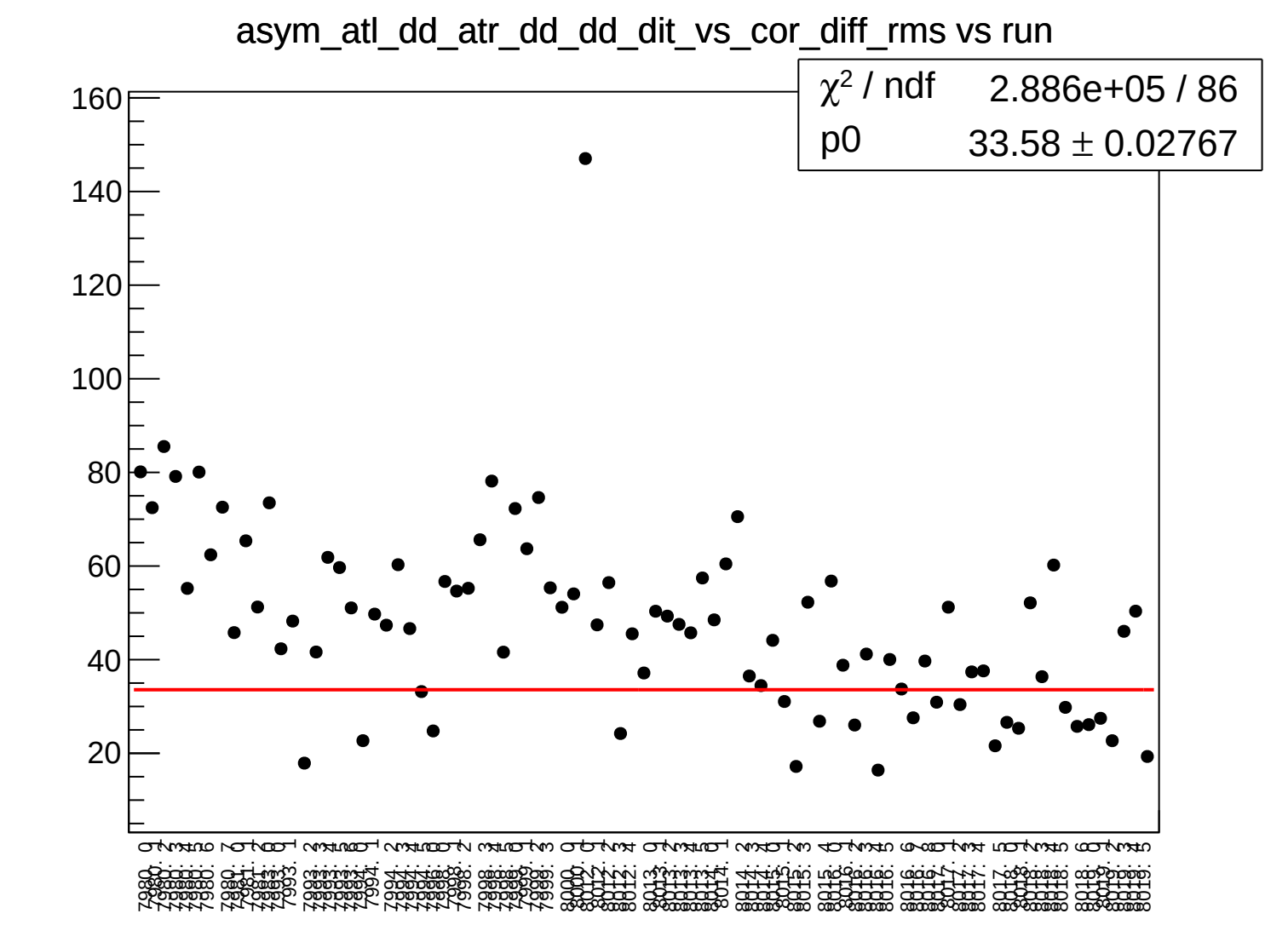

pull1D
Entries 87
Mean 0.00833
Std Dev 1.119

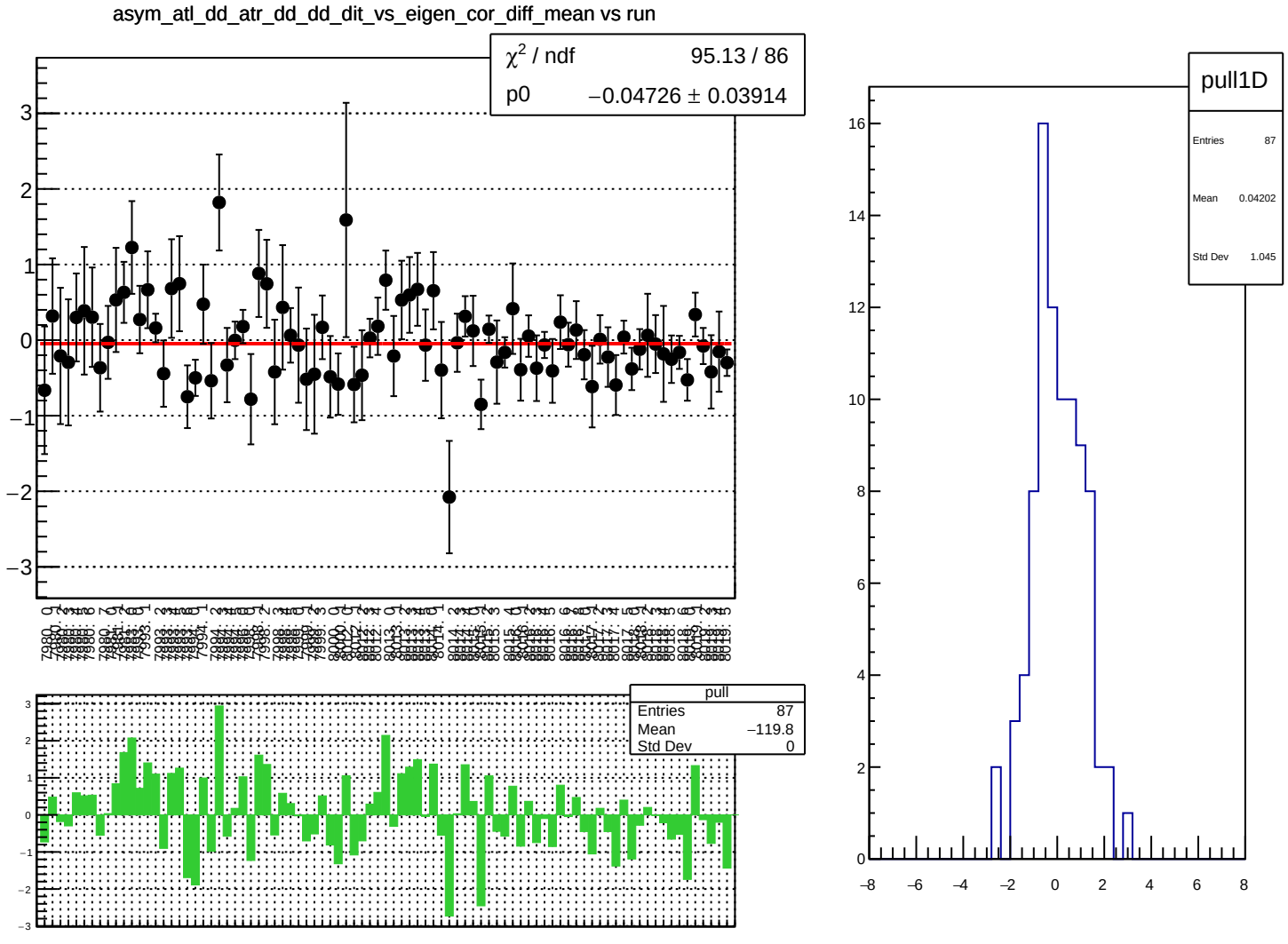

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4457 / 86
p0 1814 ± 1.369
2000
1900
1800
1700
1600

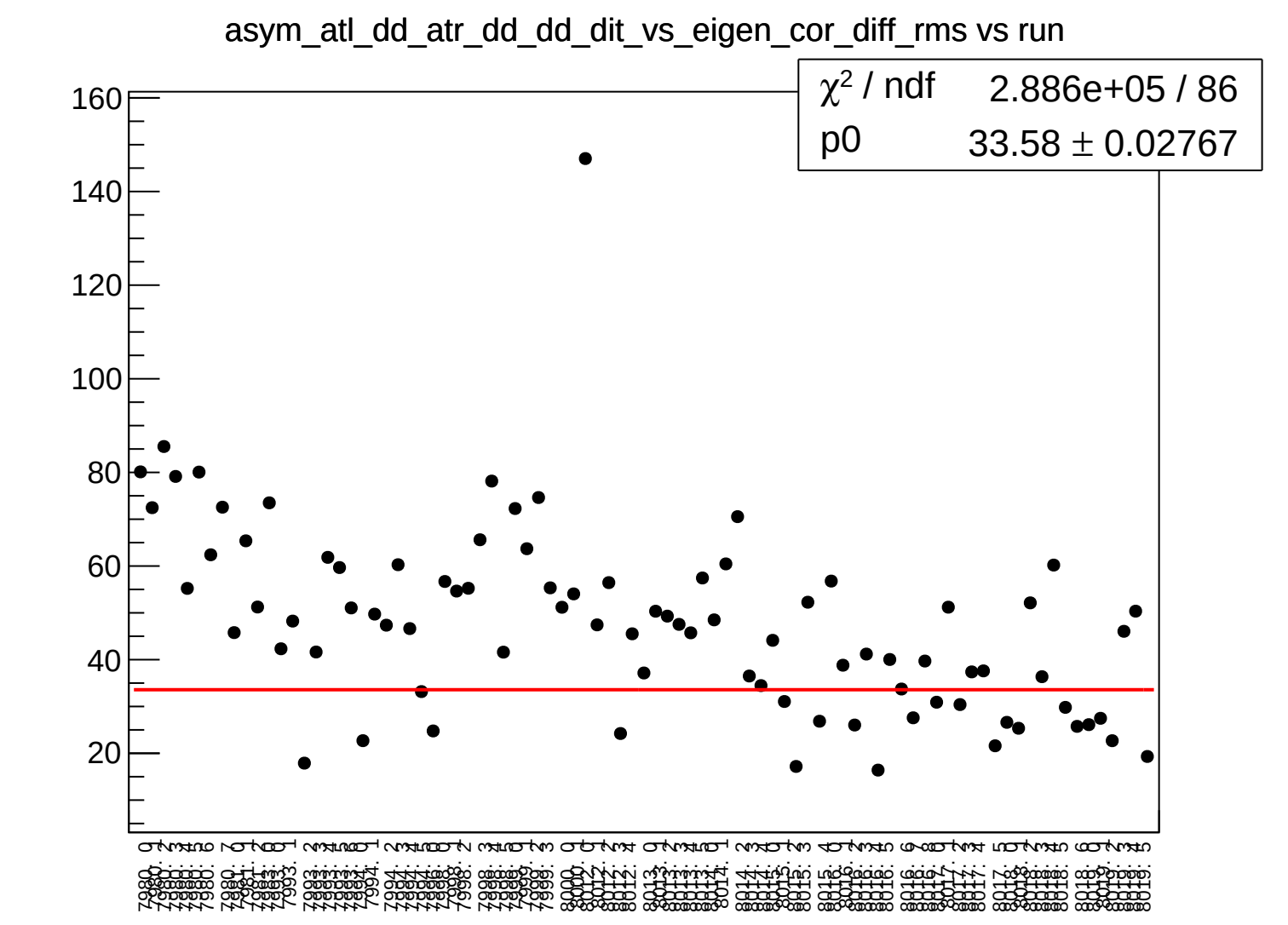

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.57 / 86
p0 −1.544e−13 ± 1.491e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 57.91
Std Dev 0
pull1D
Entries 87
Mean −0.1384
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

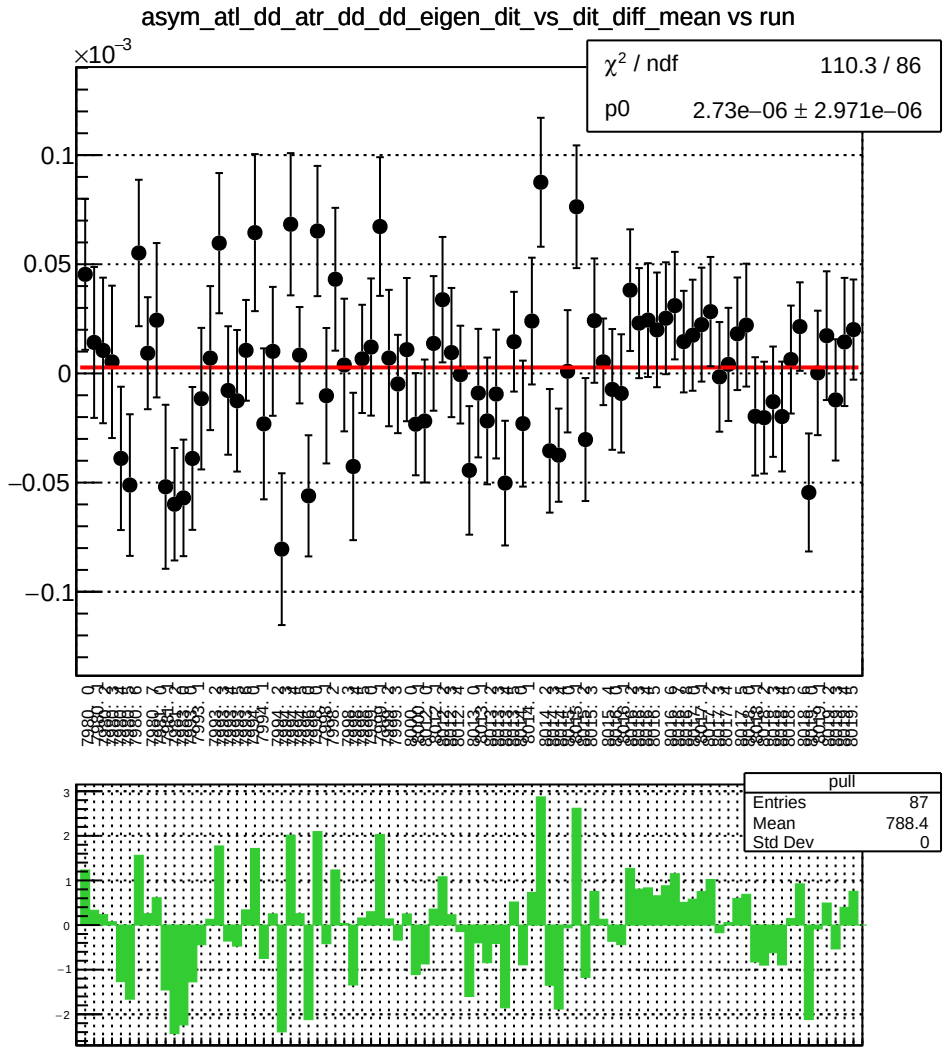

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.303e+06 / 86
p0 7.13e−11 ± 1.054e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

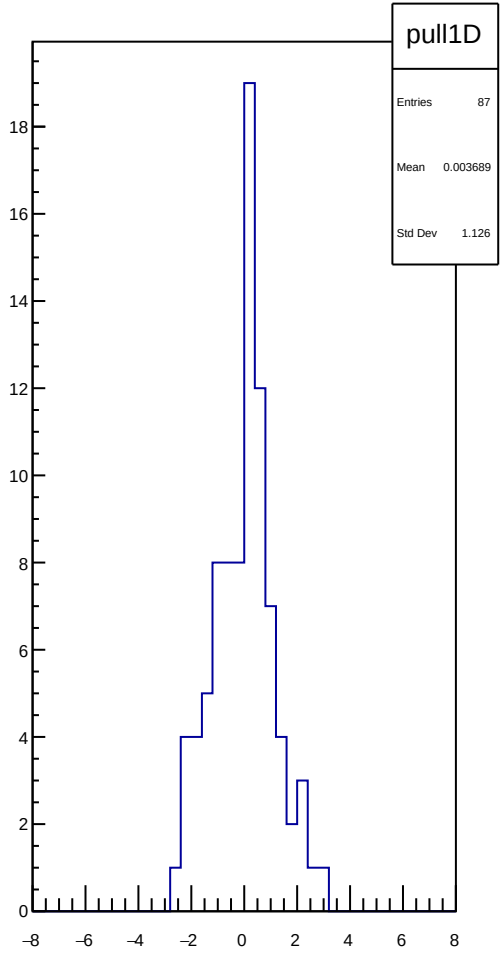

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.13 / 86
p0 −0.04726 ± 0.03914
pull
Entries 87
Mean −119.8
Std Dev 0
pull1D
Entries 87
Mean 0.04202
Std Dev 1.045

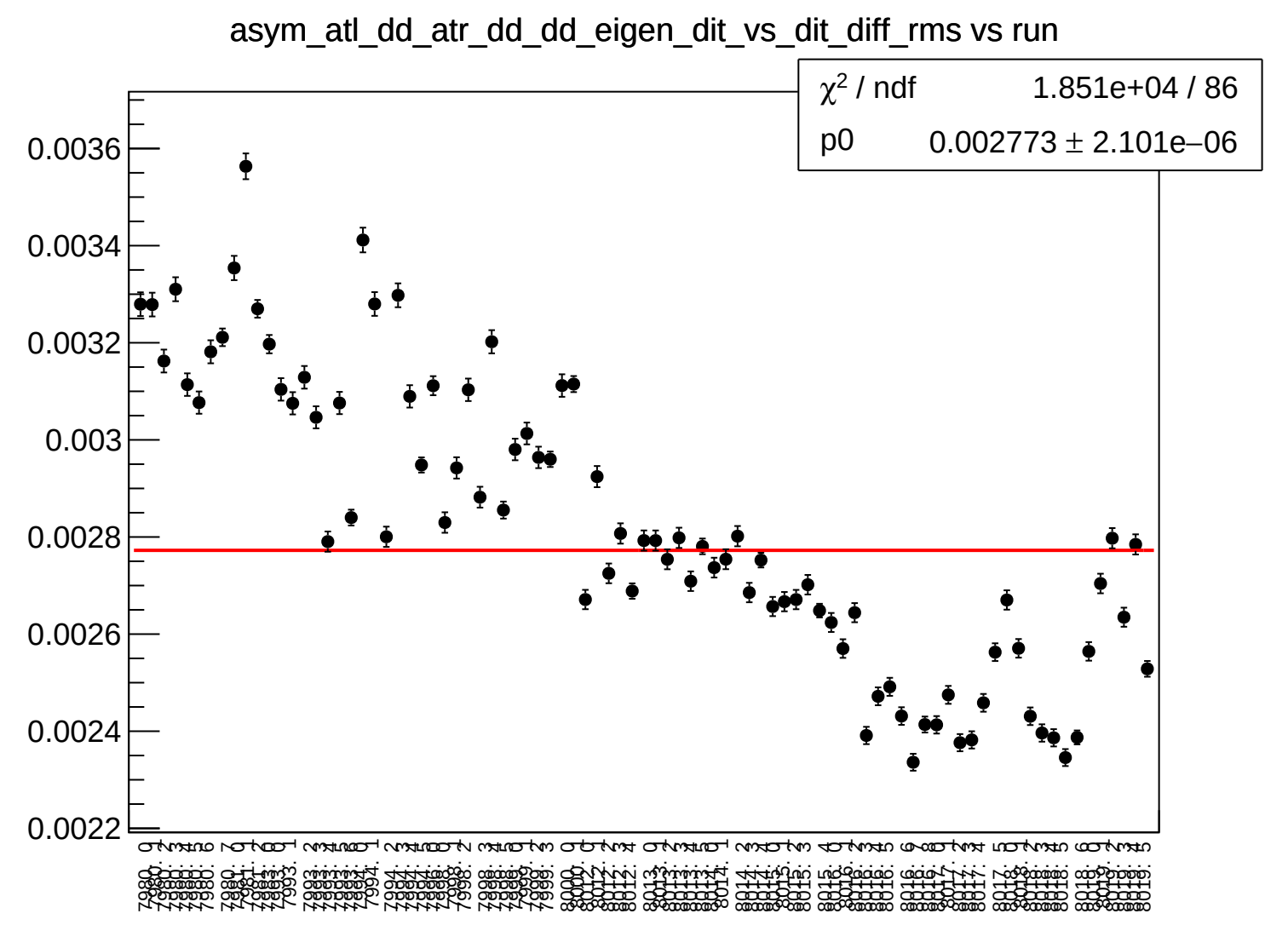

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.886e+05 / 86
p0 33.58 ± 0.02767
160
140
120
100
80
60
40
20

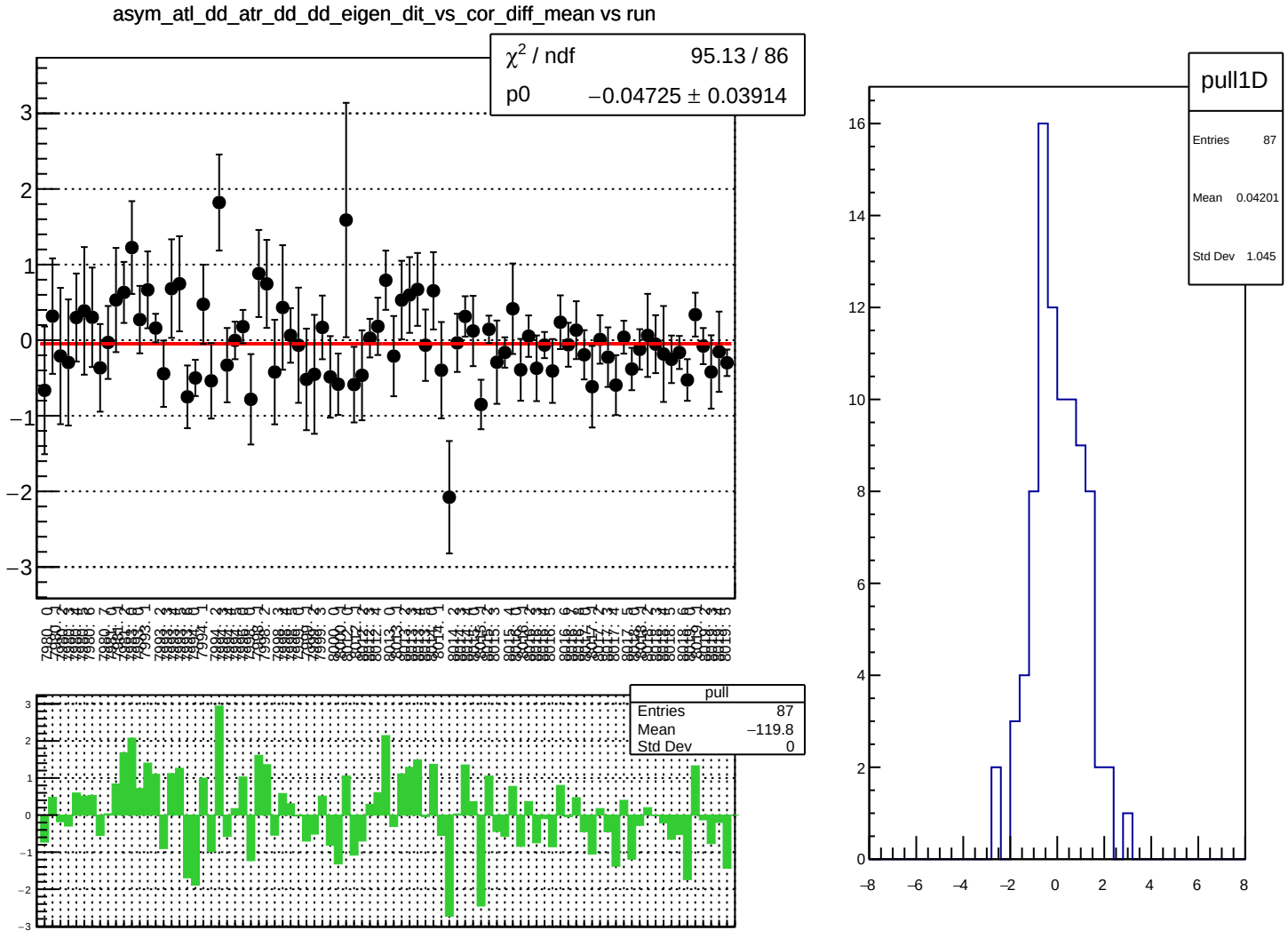

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.13 / 86
p0 −0.04726 ± 0.03914
pull
Entries 87
Mean −119.8
Std Dev 0
pull1D
Entries 87
Mean 0.04202
Std Dev 1.045

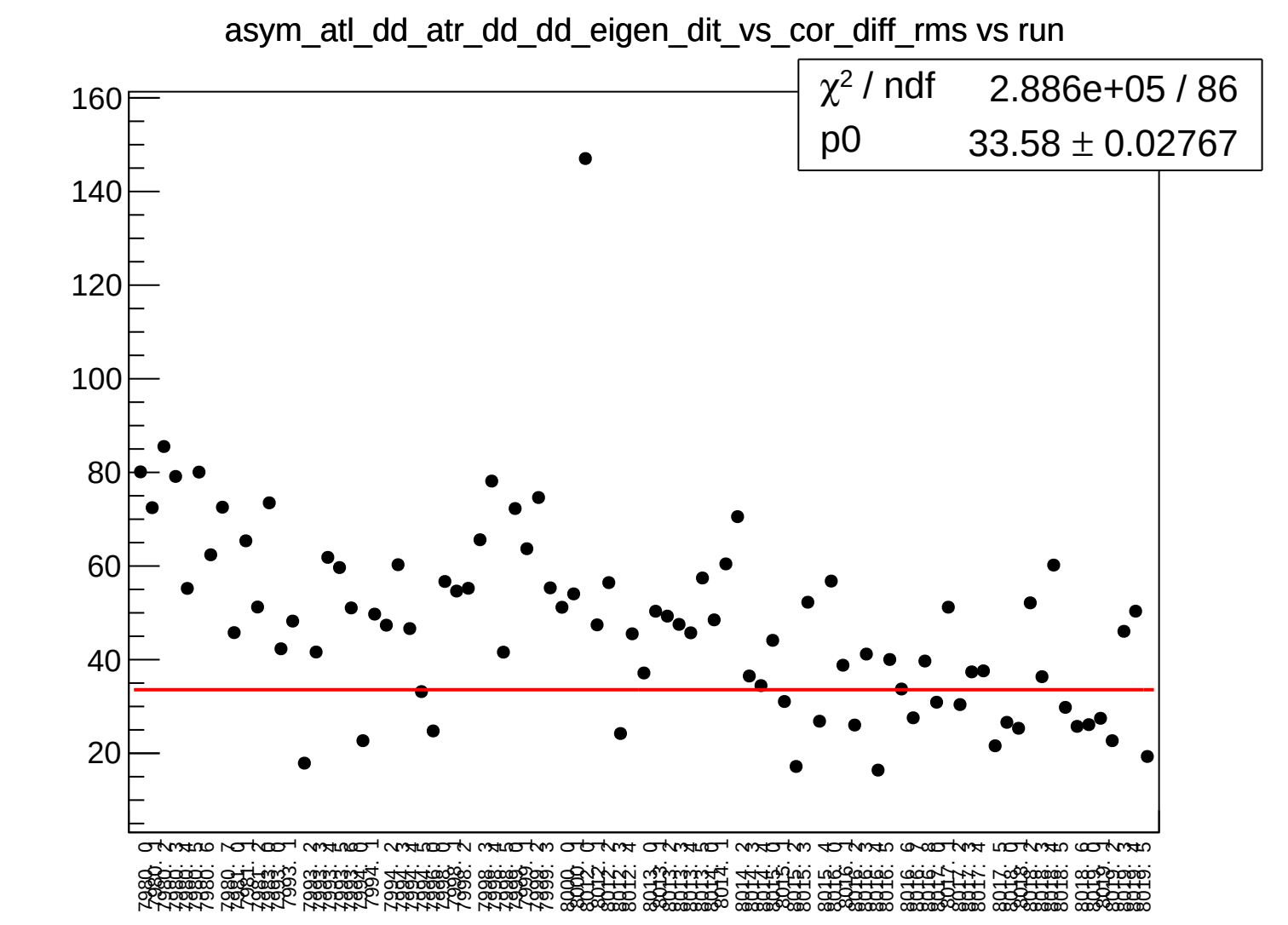

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.886e+05 / 86
p0 33.58 ± 0.02767
160
140
120
100
80
60
40
20

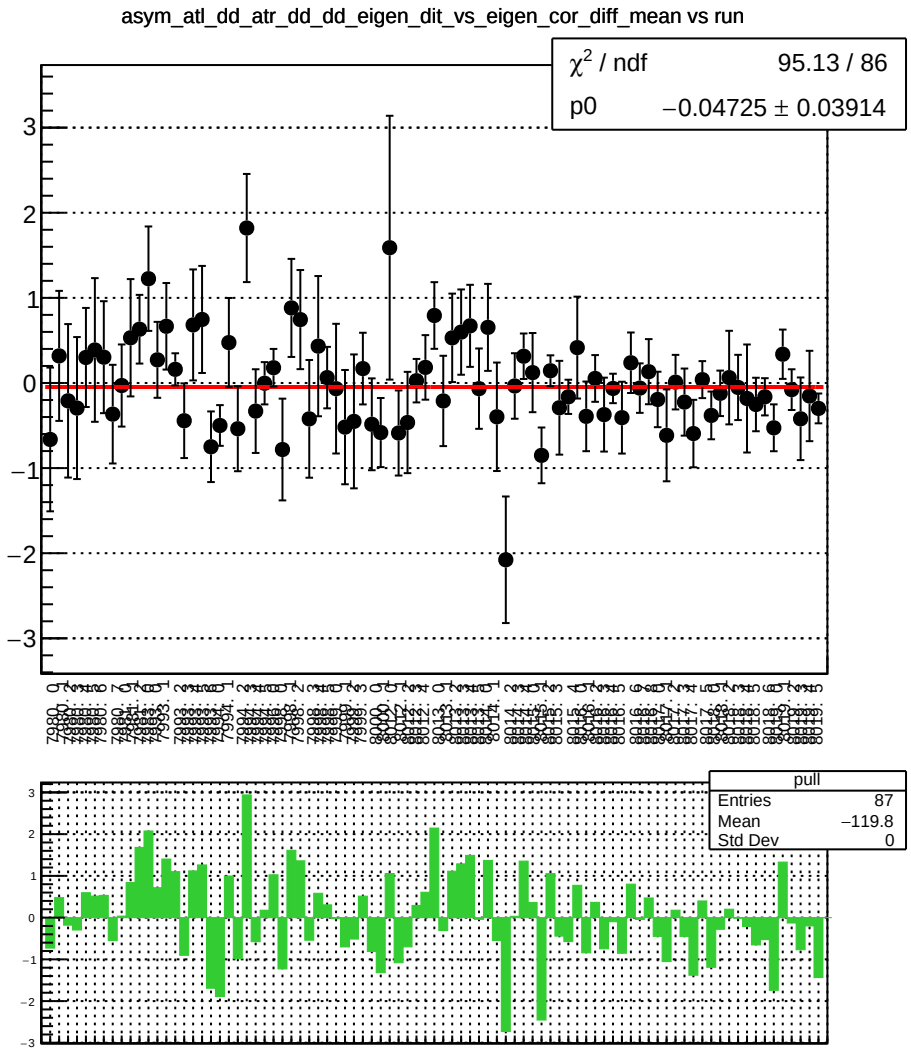

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.3 / 86
p0 2.73e−06 ± 2.971e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 788.4
Std Dev 0
3
2
1
0
−1
−2

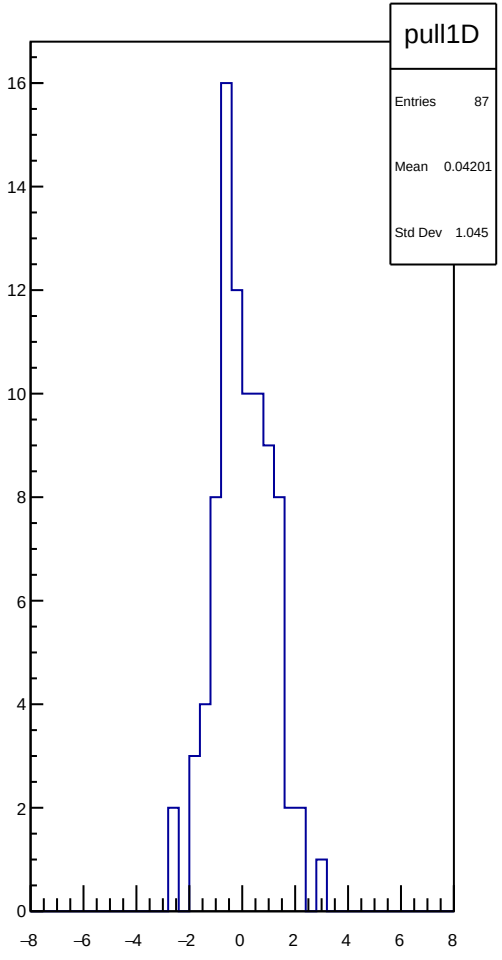

pull1D
Entries 87
Mean 0.003689
Std Dev 1.126
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

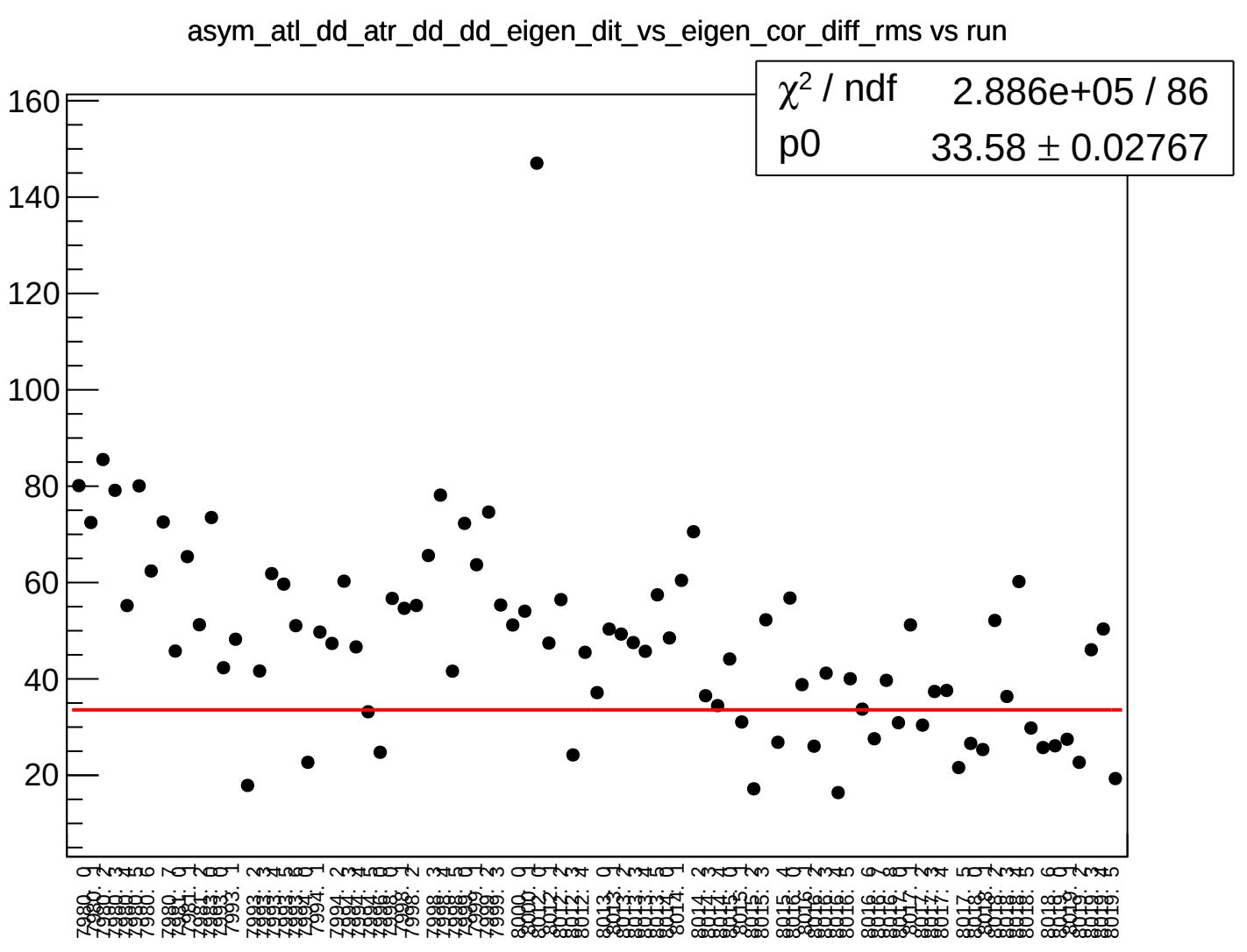

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.851e+04 / 86
p0 0.002773 ± 2.101e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

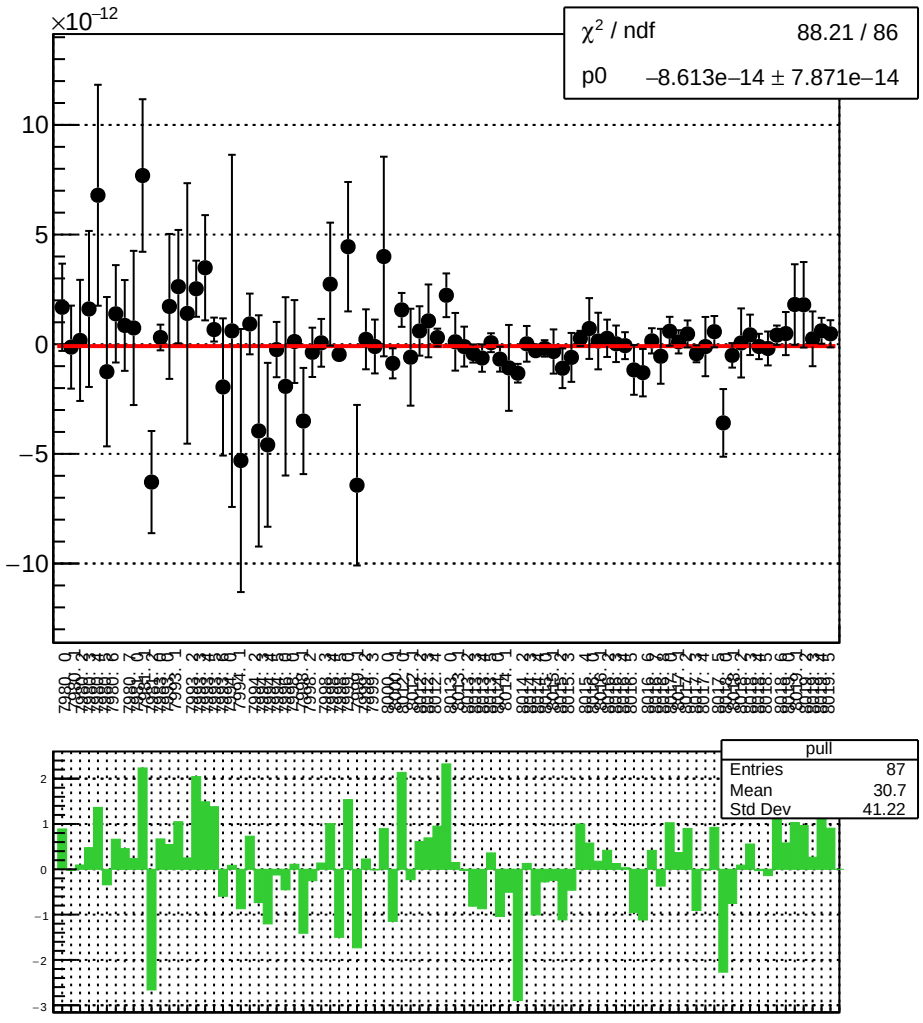

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.13 / 86
p0 −0.04725 ± 0.03914
pull
Entries 87
Mean −119.8
Std Dev 0
pull1D
Entries 87
Mean 0.04201
Std Dev 1.045

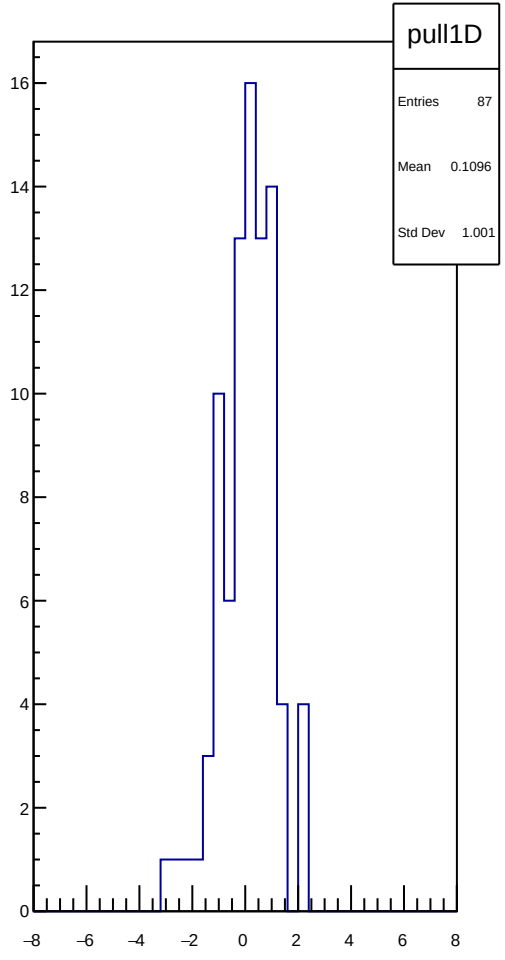

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.886e+05 / 86
p0 33.58 ± 0.02767
160
140
120
100
80
60
40
20

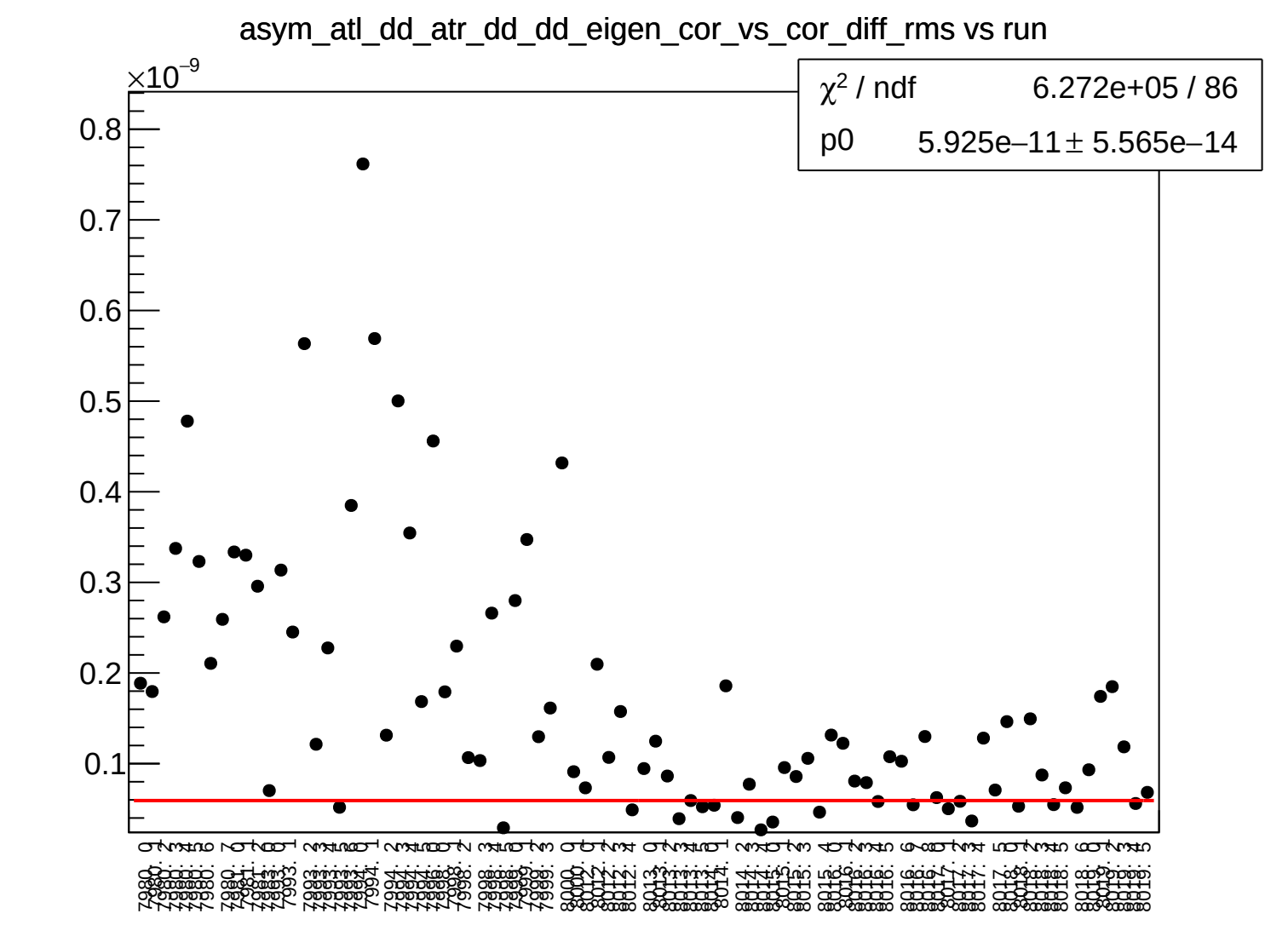

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.13 / 86
p0 −0.04725 ± 0.03914
pull
Entries 87
Mean −119.8
Std Dev 0

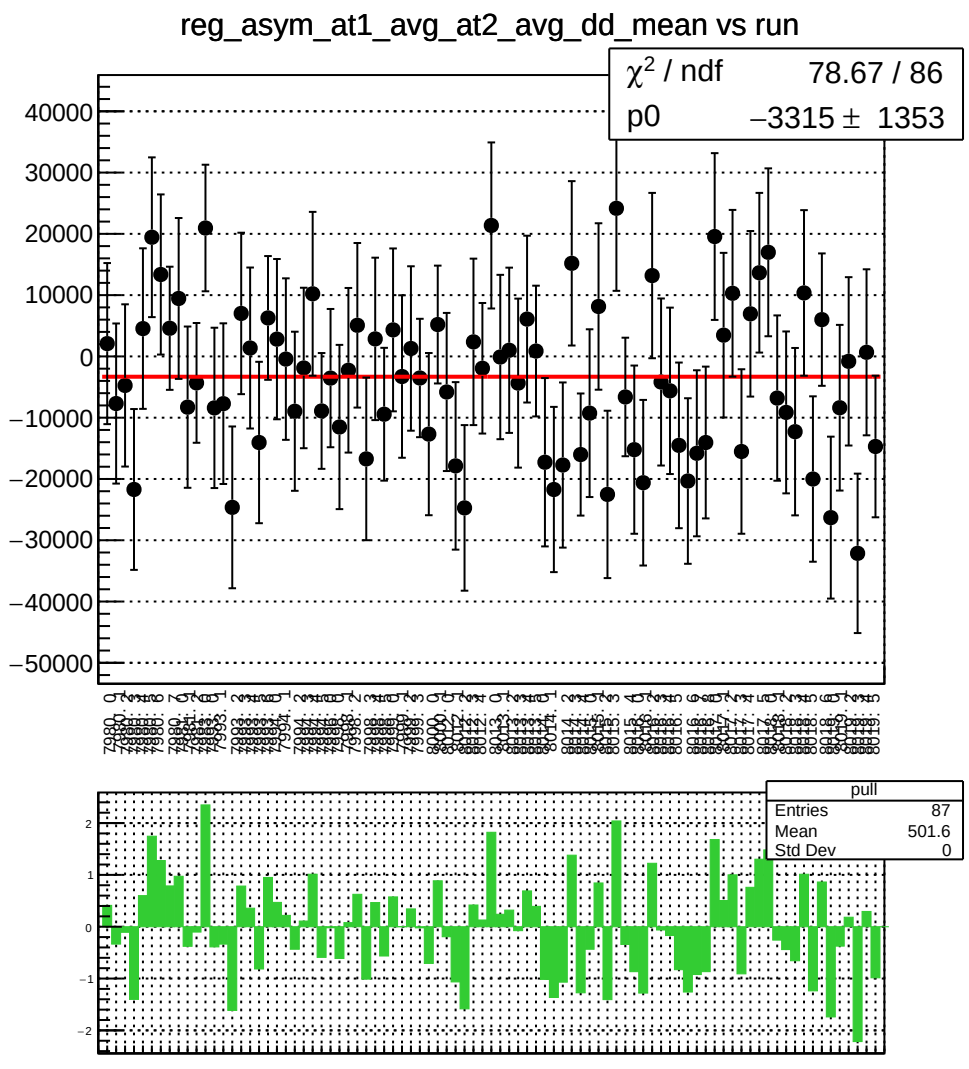

pull1D
Entries 87
Mean 0.04201
Std Dev 1.045

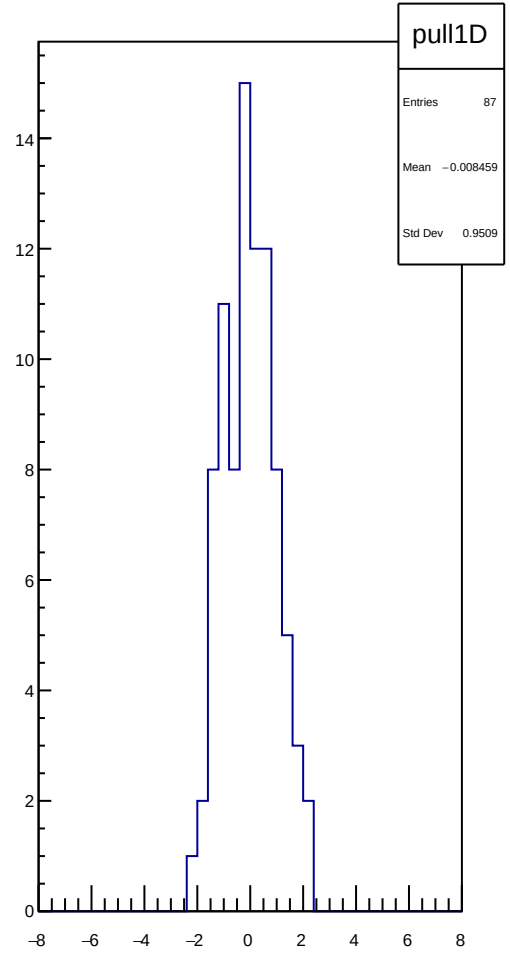

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.886e+05 / 86
p0 33.58 ± 0.02767
160
140
120
100
80
60
40
20

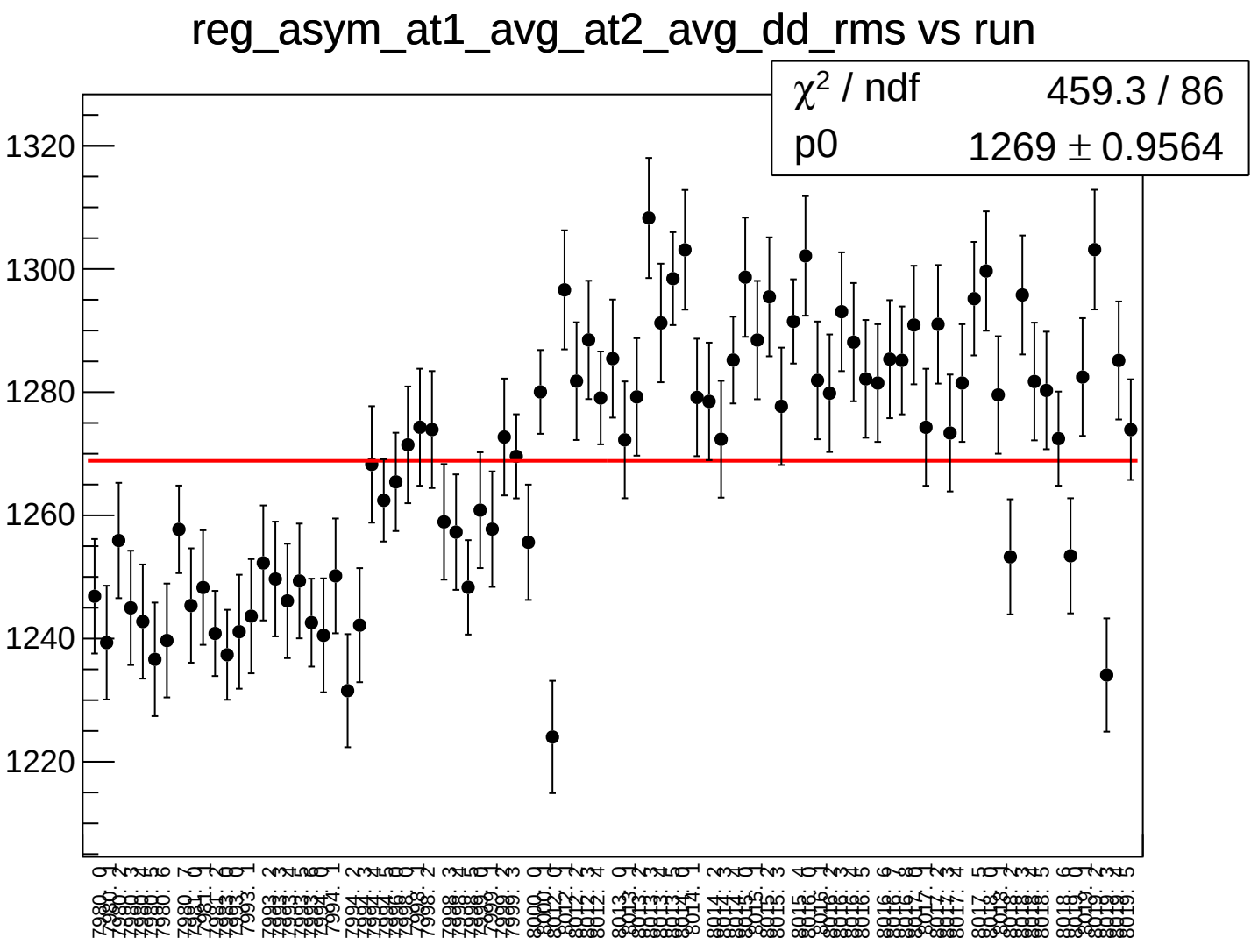

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.21 / 86
p0 −8.613e−14 ± 7.871e−14
pull
Entries 87
Mean 30.7
Std Dev 41.22

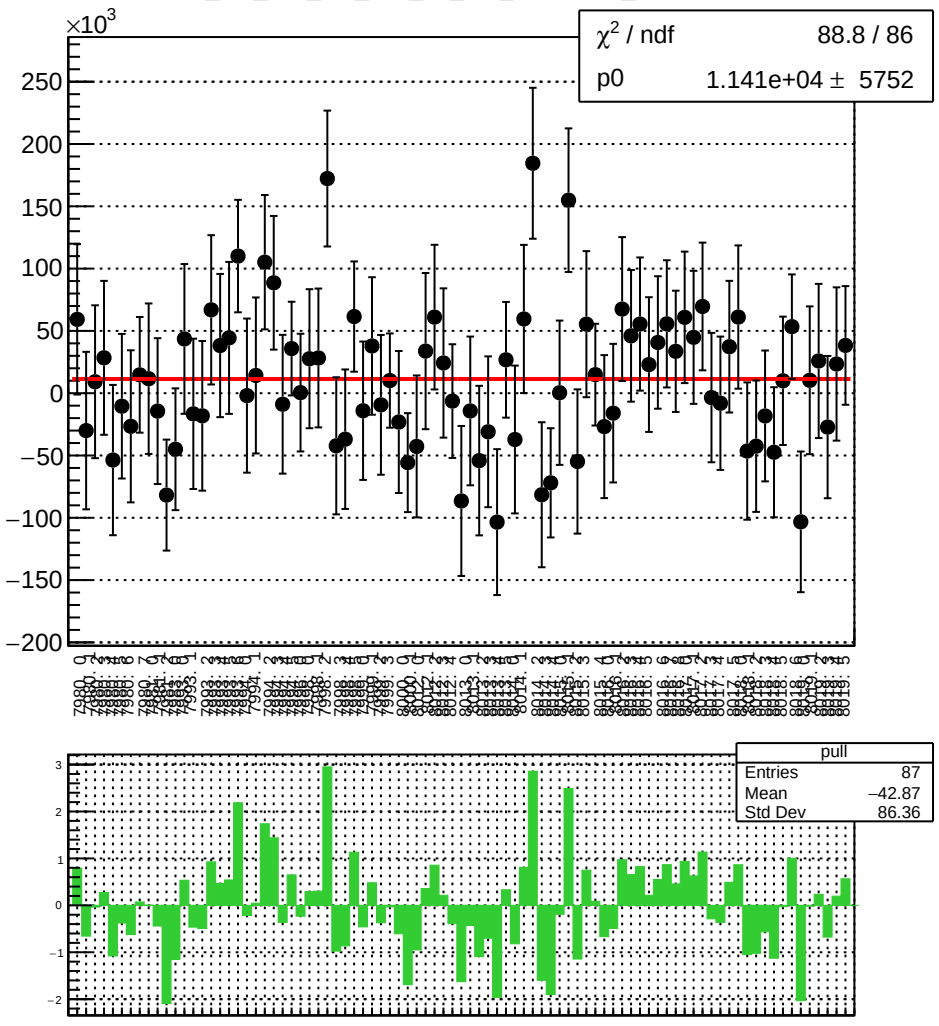

pull1D
Entries 87
Mean 0.1096
Std Dev 1.001

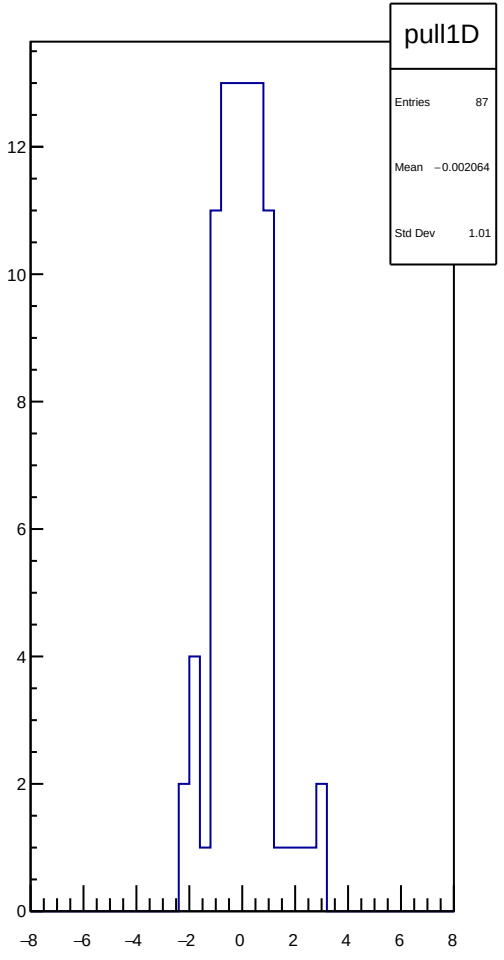

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.272e+05 / 86
p0 5.925e−11 ± 5.565e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

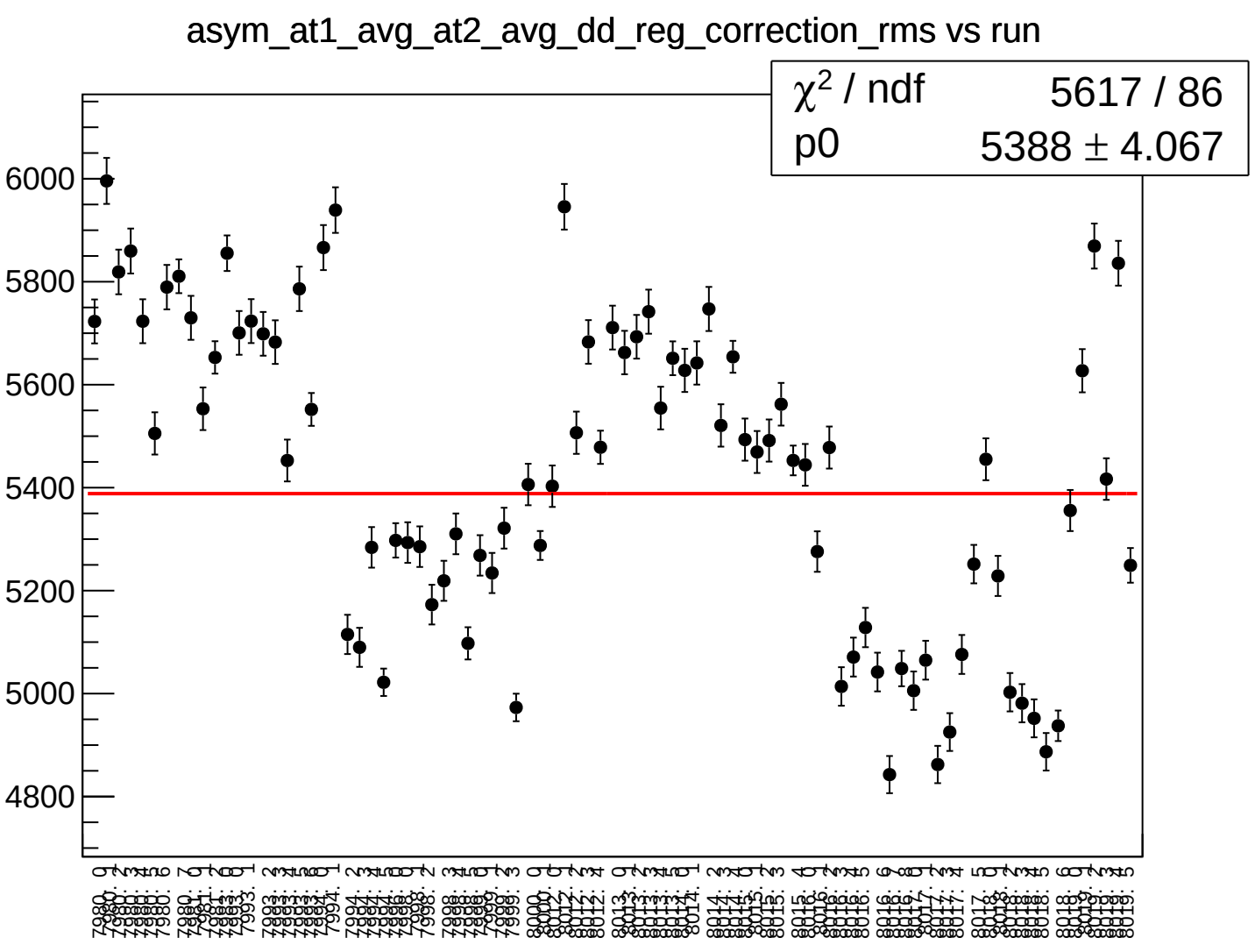

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.67 / 86
p0 −3315 ± 1353
pull
Entries 87
Mean 501.6
Std Dev 0

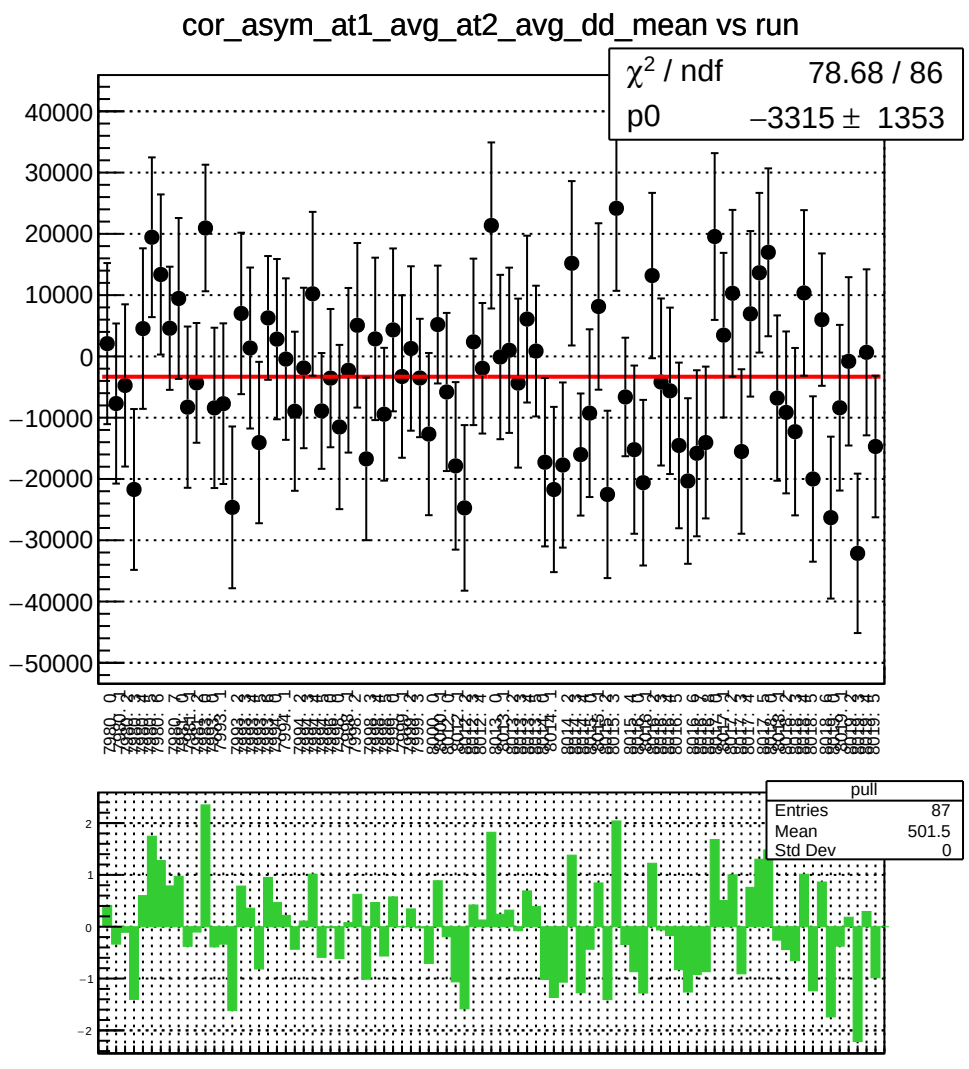

pull1D
Entries 87
Mean −0.008459
Std Dev 0.9509

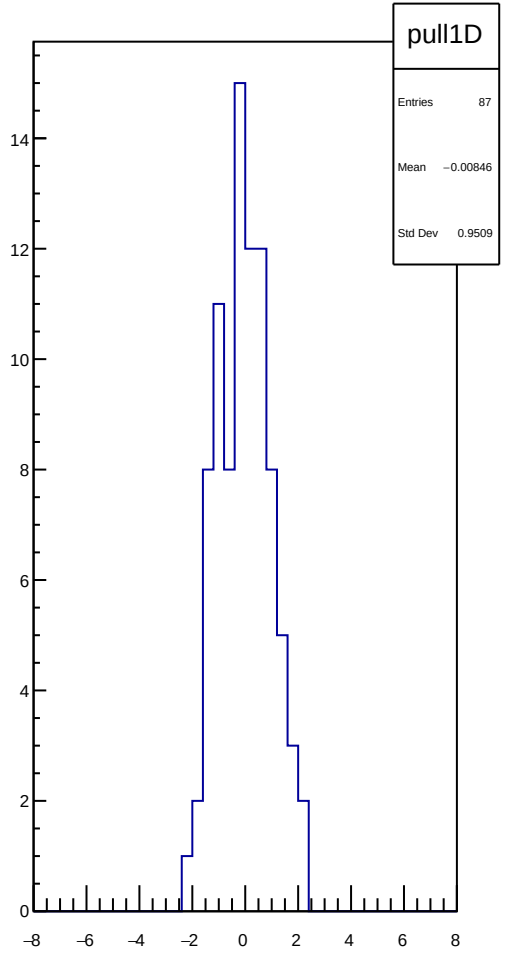

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 459.3 / 86
p0 1269 ± 0.9564
1320
1300
1280
1260
1240
1220

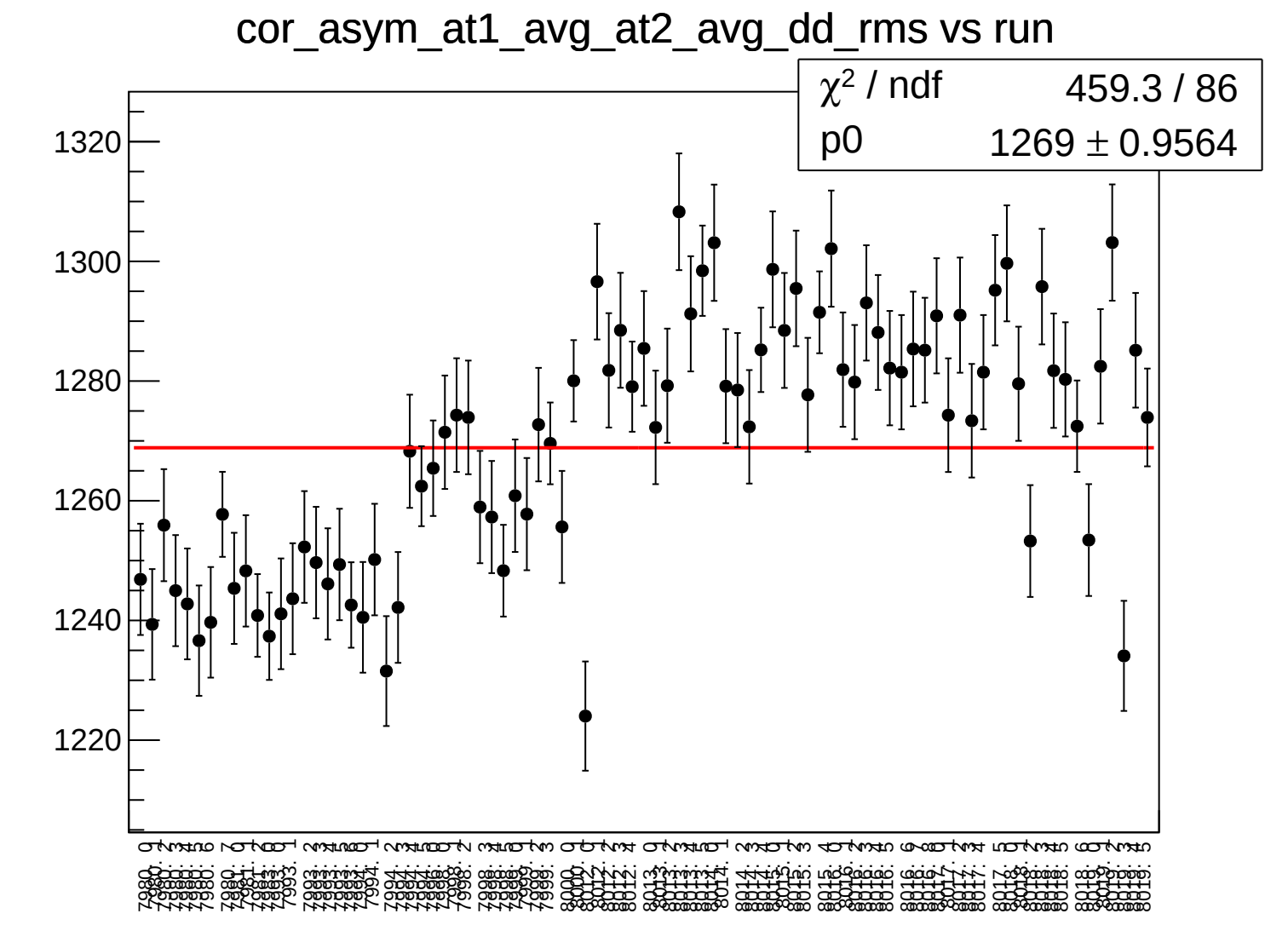

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.8 / 86
p0 1.141e+04 ± 5752
pull
Entries 87
Mean −42.87
Std Dev 86.36

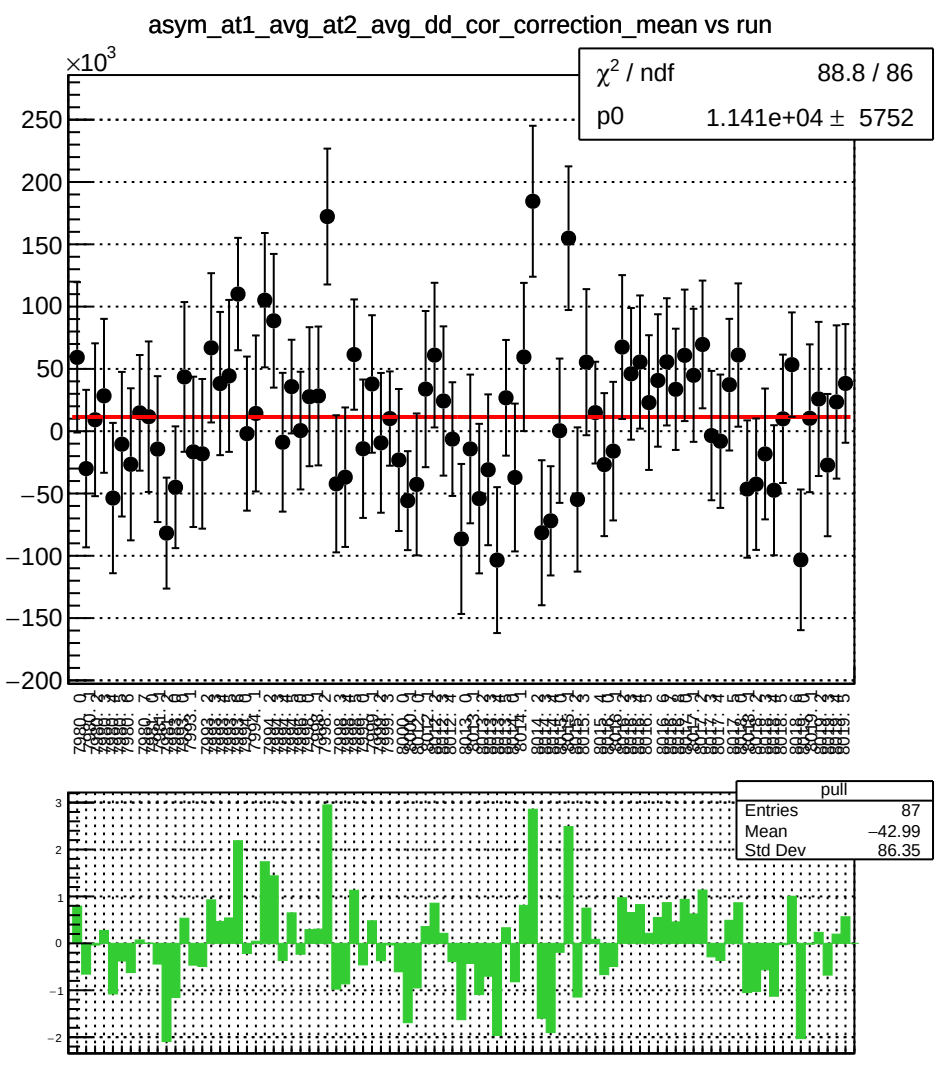

pull1D
Entries 87
Mean −0.002064
Std Dev 1.01

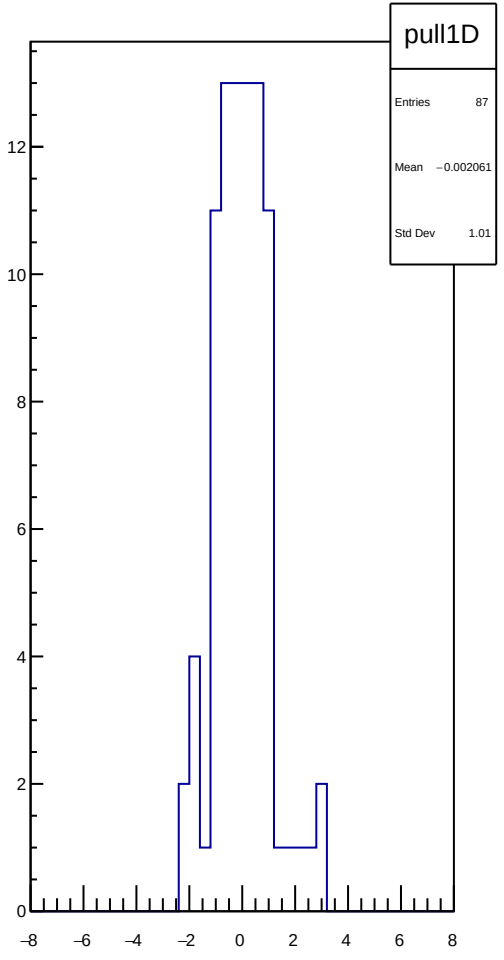

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 5617 / 86
p0 5388 ± 4.067
6000
5800
5600
5400
5200
5000
4800

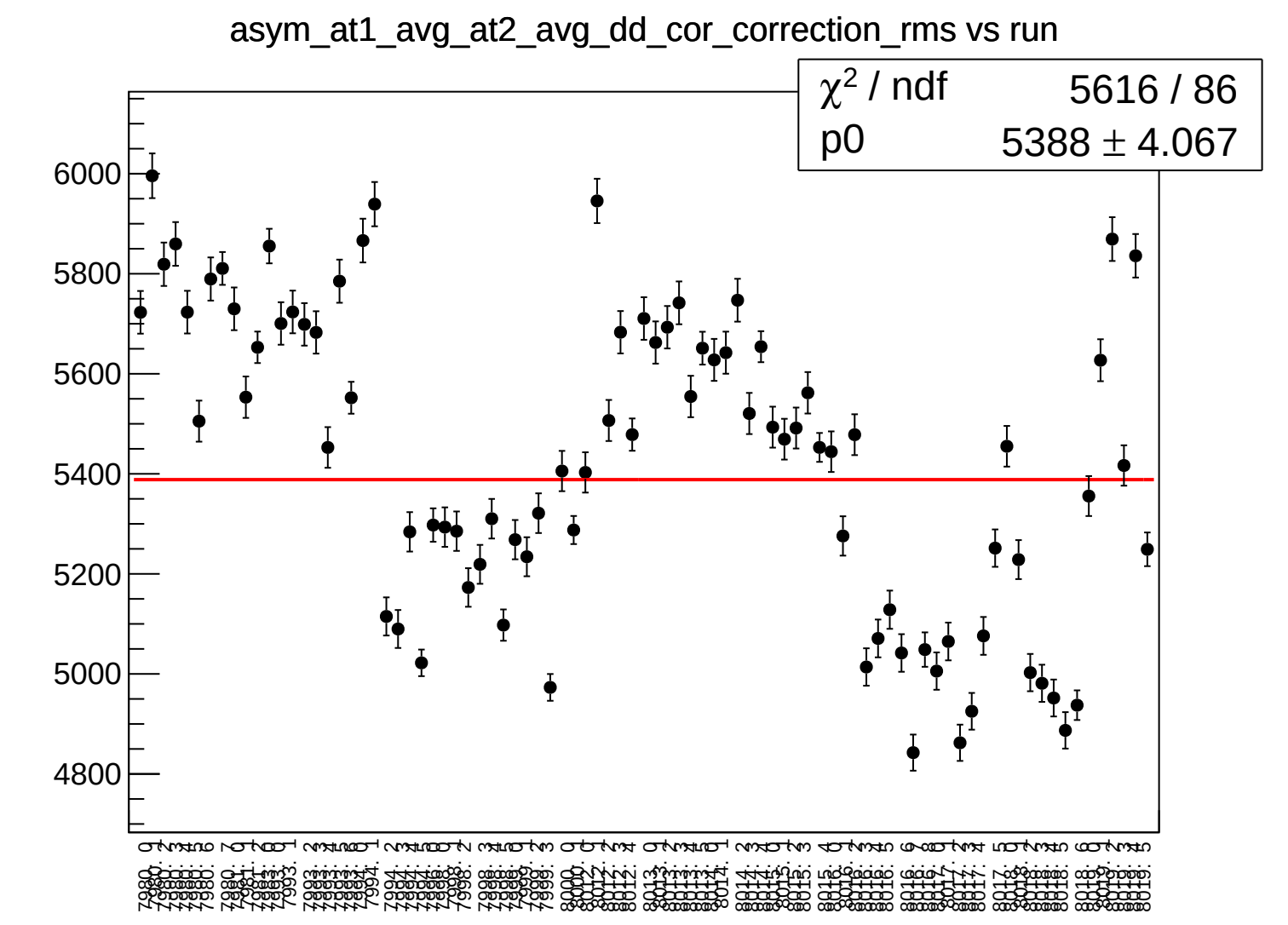

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.68 / 86
p0 −3315 ± 1353
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 87
Mean 501.5
Std Dev 0
2
1
0
−1
−2

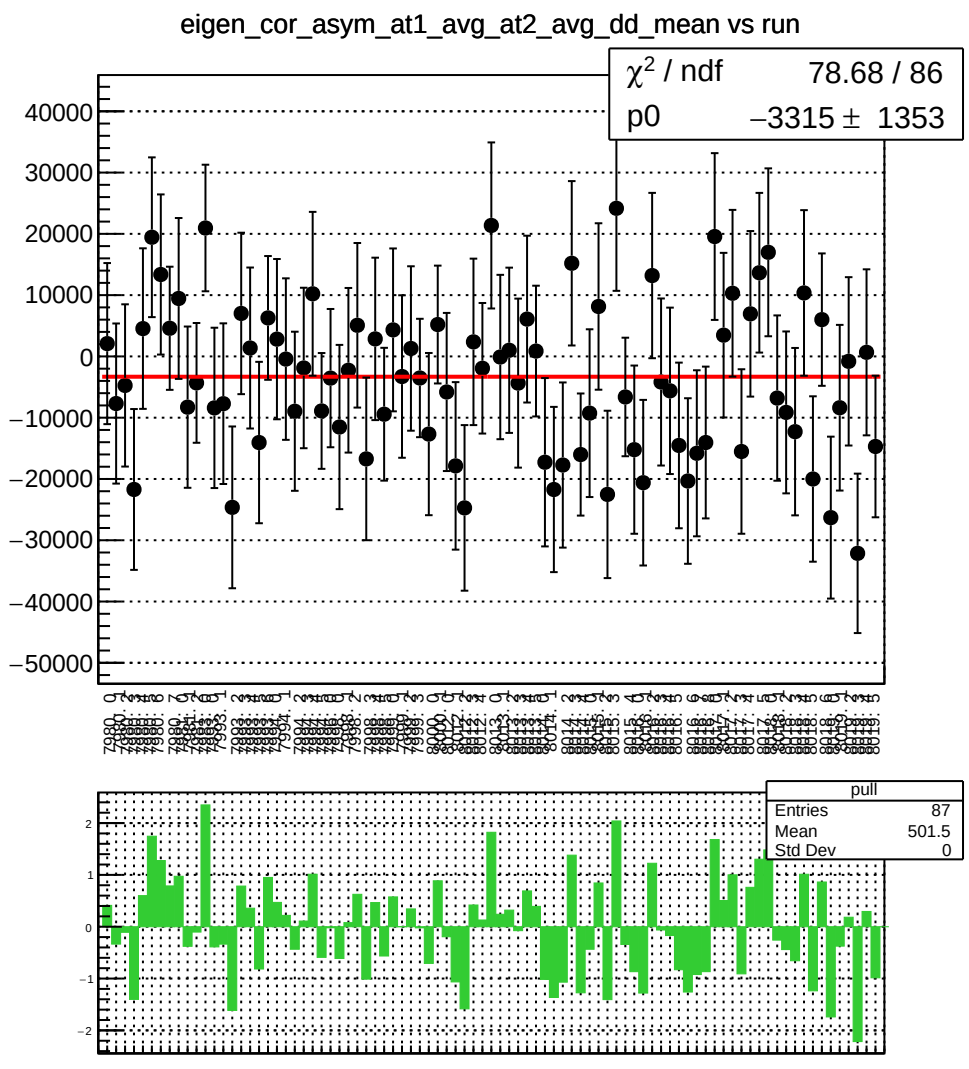

pull1D
Entries 87
Mean −0.00846
Std Dev 0.9509
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

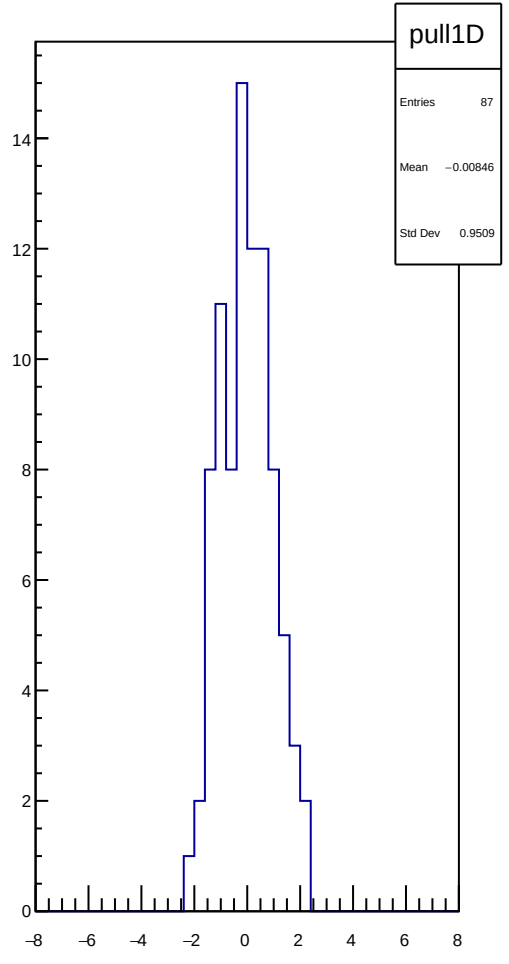

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 459.3 / 86
p0 1269 ± 0.9564
1320
1300
1280
1260
1240
1220

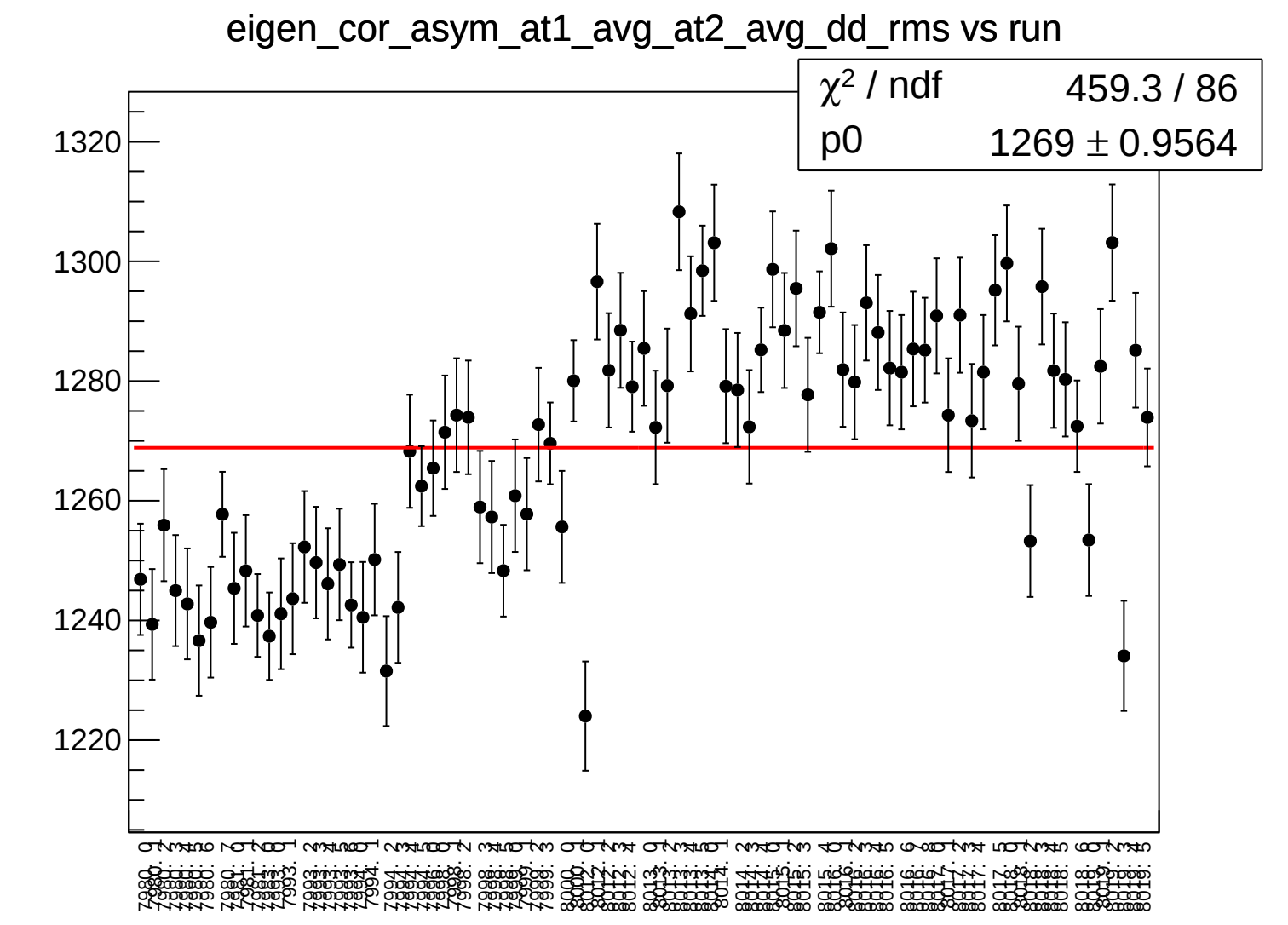

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.8 / 86
p0 1.141e+04 ± 5752
pull
Entries 87
Mean −42.99
Std Dev 86.35

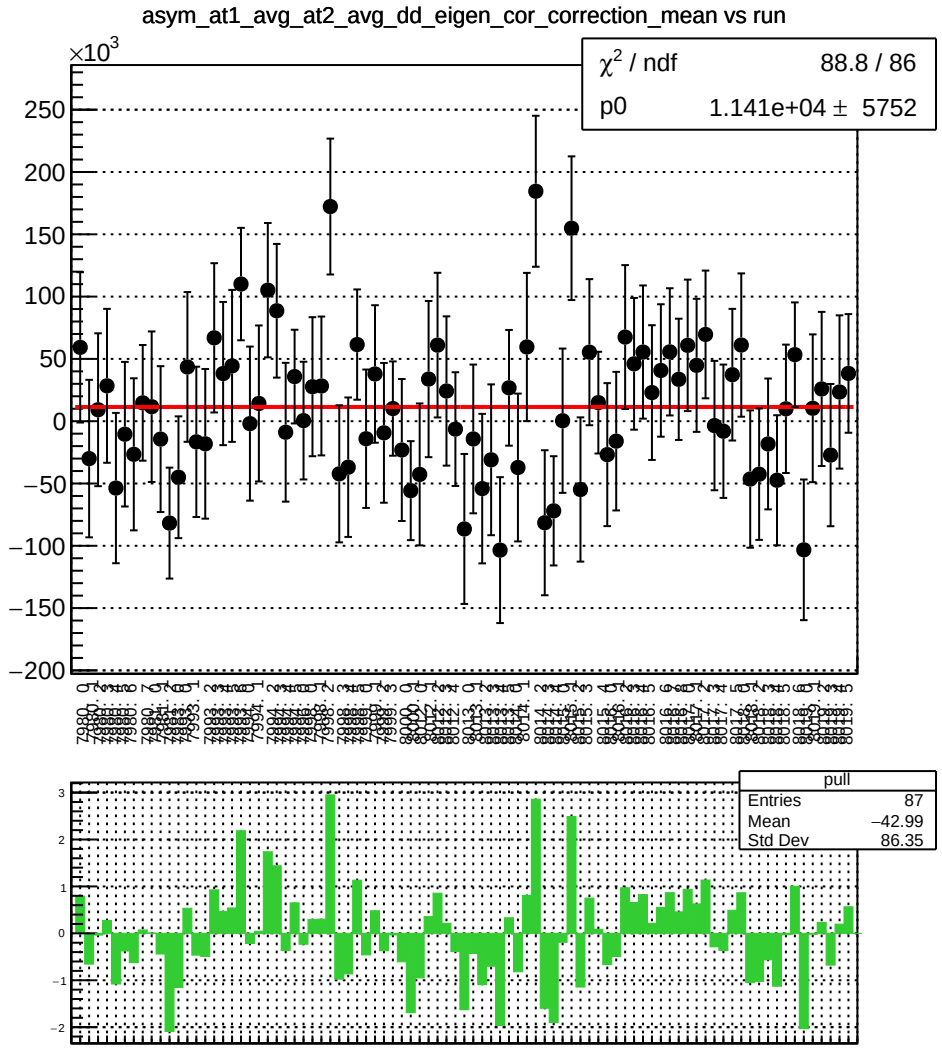

pull1D
Entries 87
Mean −0.002061
Std Dev 1.01

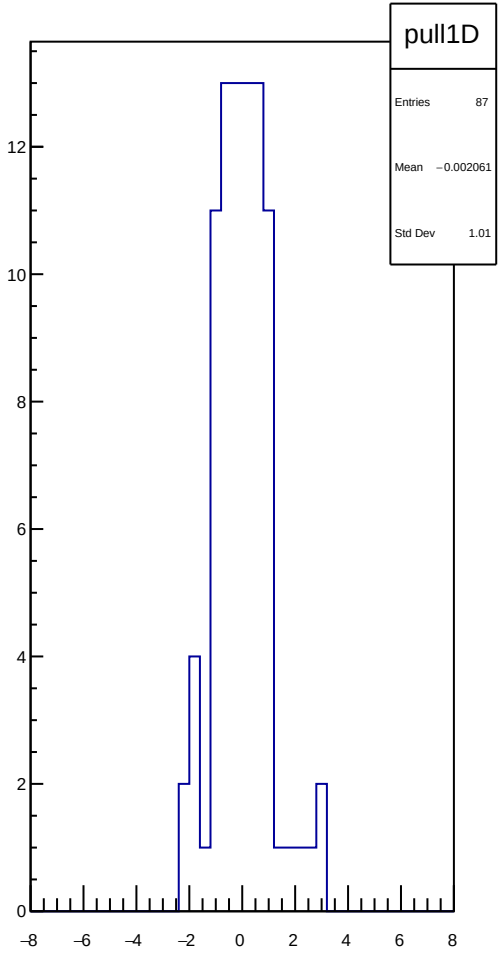

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 5616 / 86
p0 5388 ± 4.067
6000
5800
5600
5400
5200
5000
4800

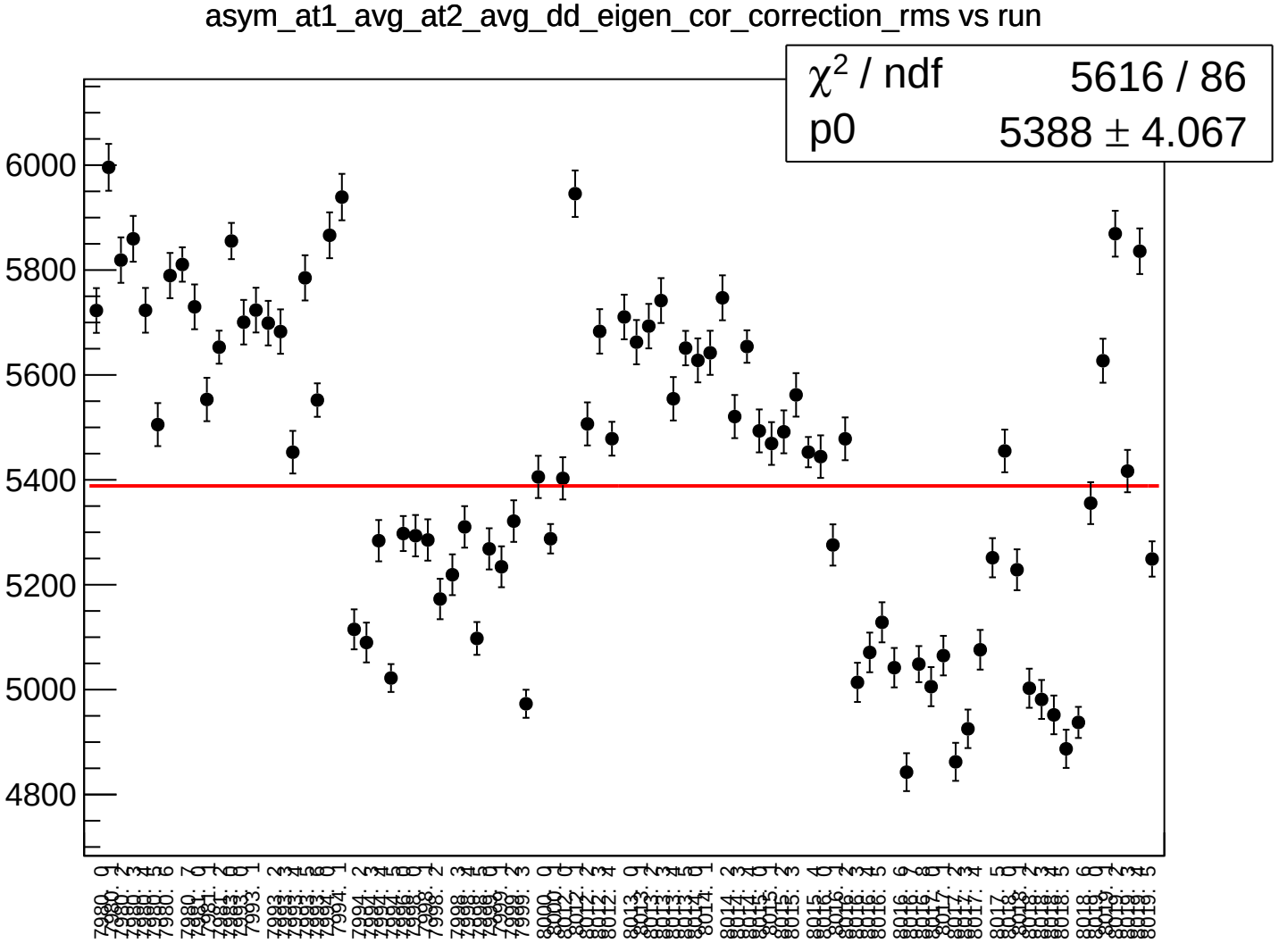

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.68 / 86
p0 −3315 ± 1353
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 87
Mean 501.5
Std Dev 0
2
1
0
−1
−2

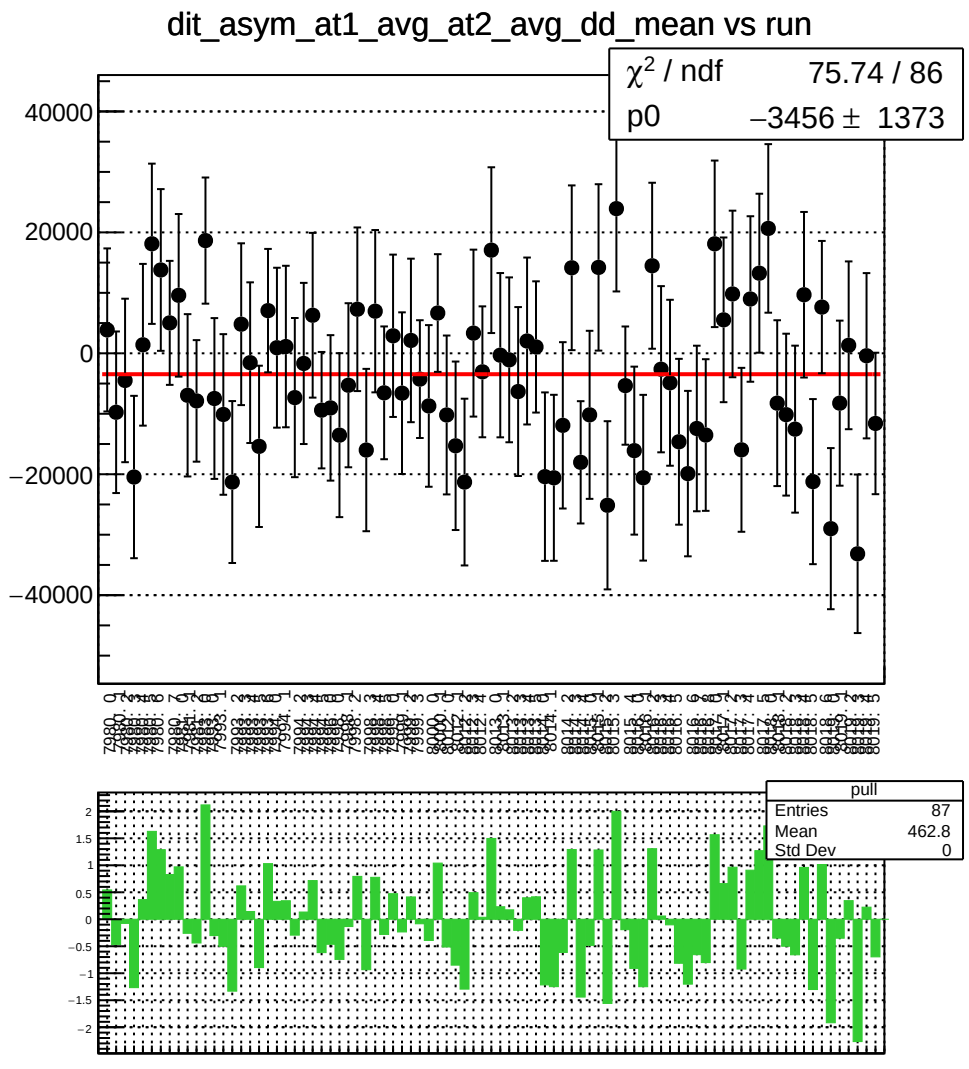

pull1D
Entries 87
Mean −0.00846
Std Dev 0.9509
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

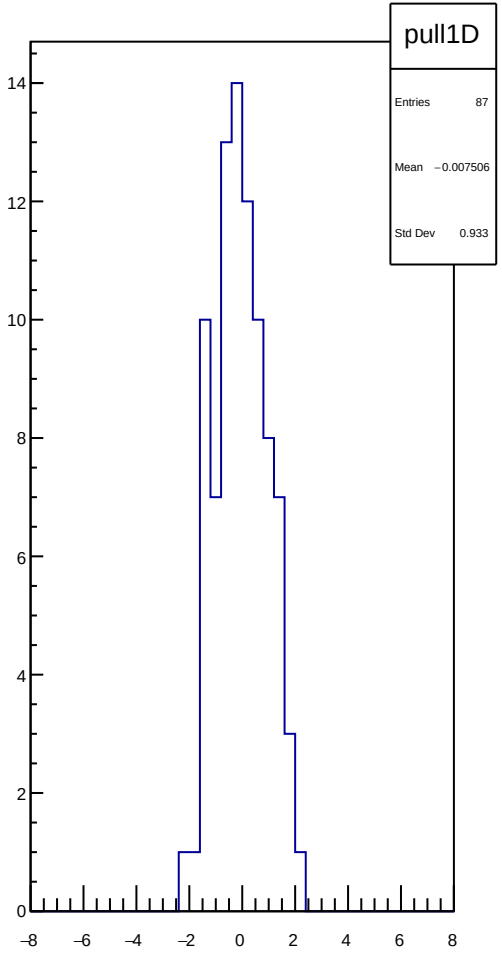

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 459.3 / 86
p0 1269 ± 0.9564
1320
1300
1280
1260
1240
1220

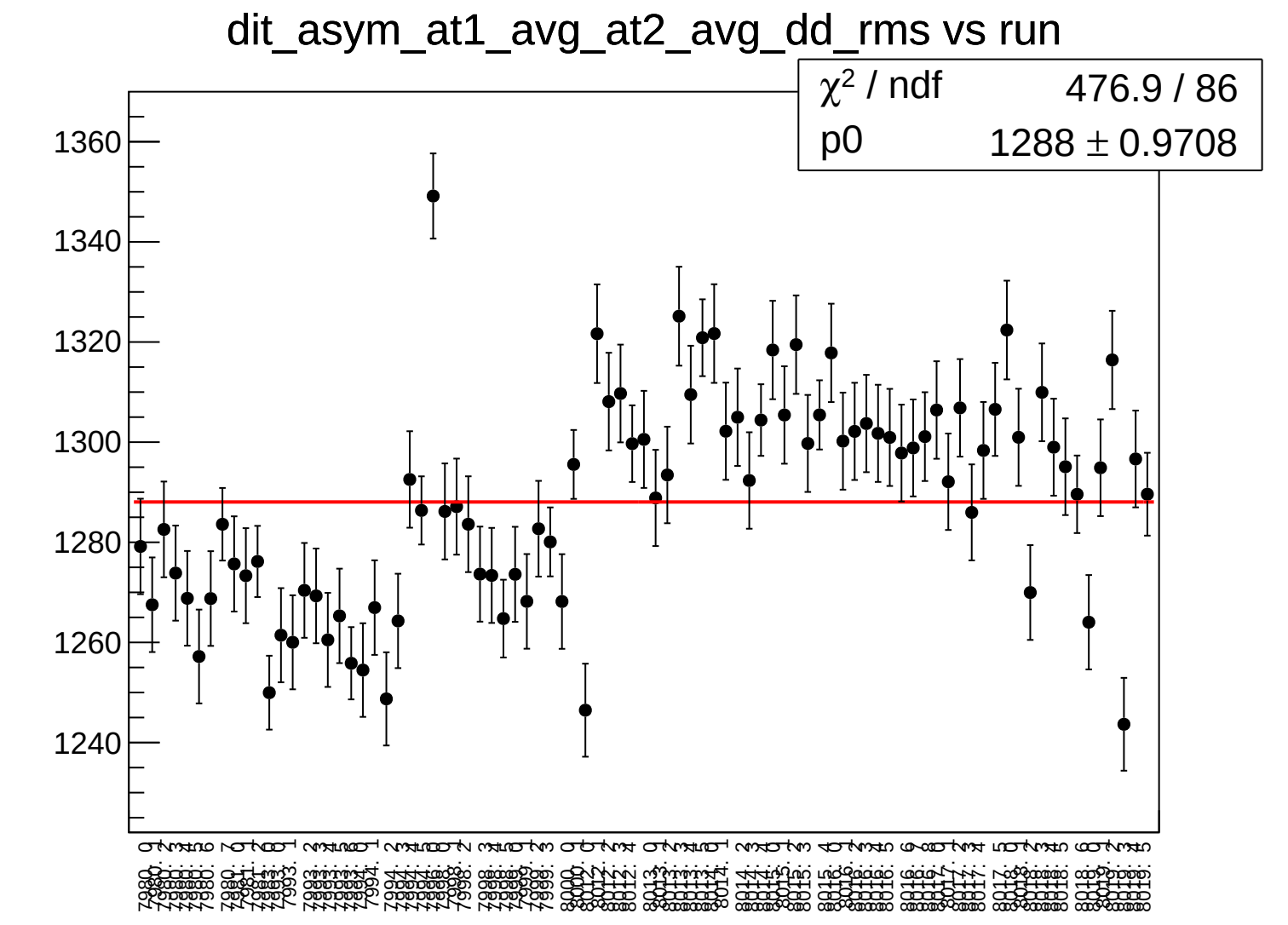

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.8 / 86
p0 1.141e+04 ± 5752
pull
Entries 87
Mean −42.99
Std Dev 86.35

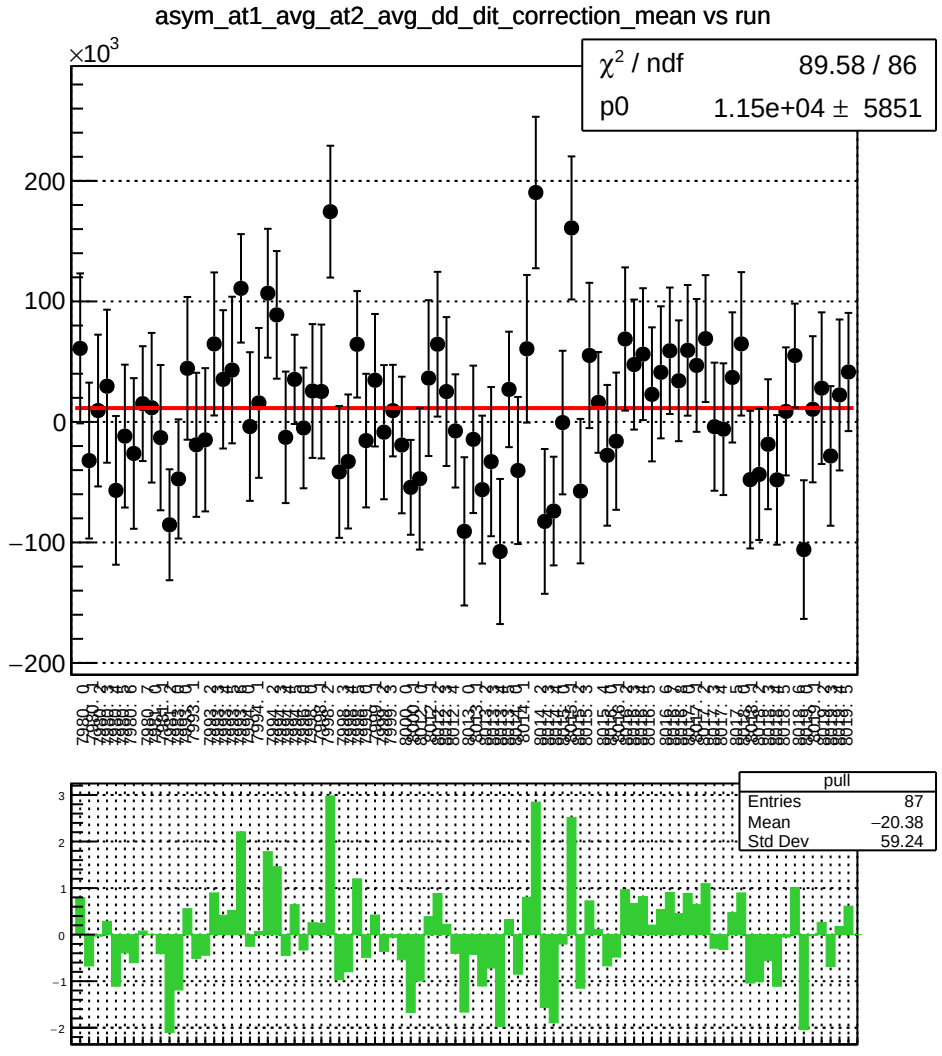

pull1D
Entries 87
Mean −0.002061
Std Dev 1.01

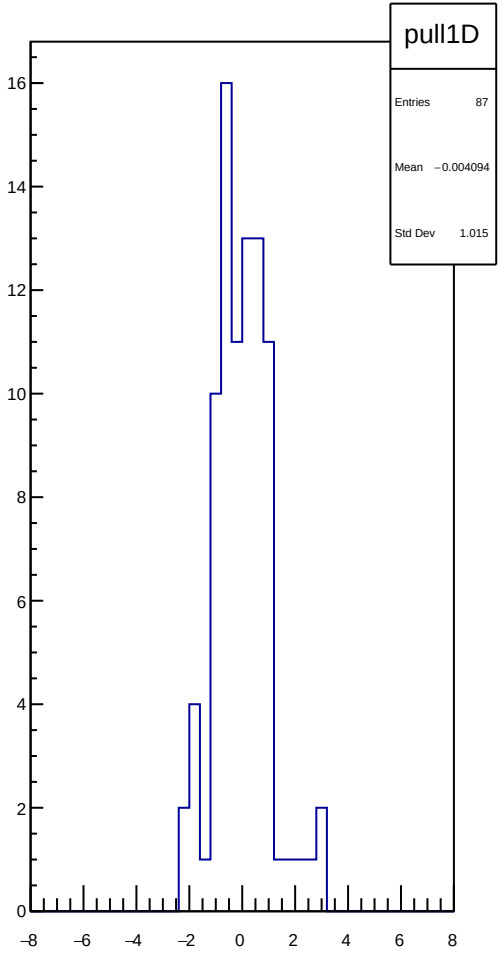

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5616 / 86
p0 5388 ± 4.067
6000
5800
5600
5400
5200
5000
4800

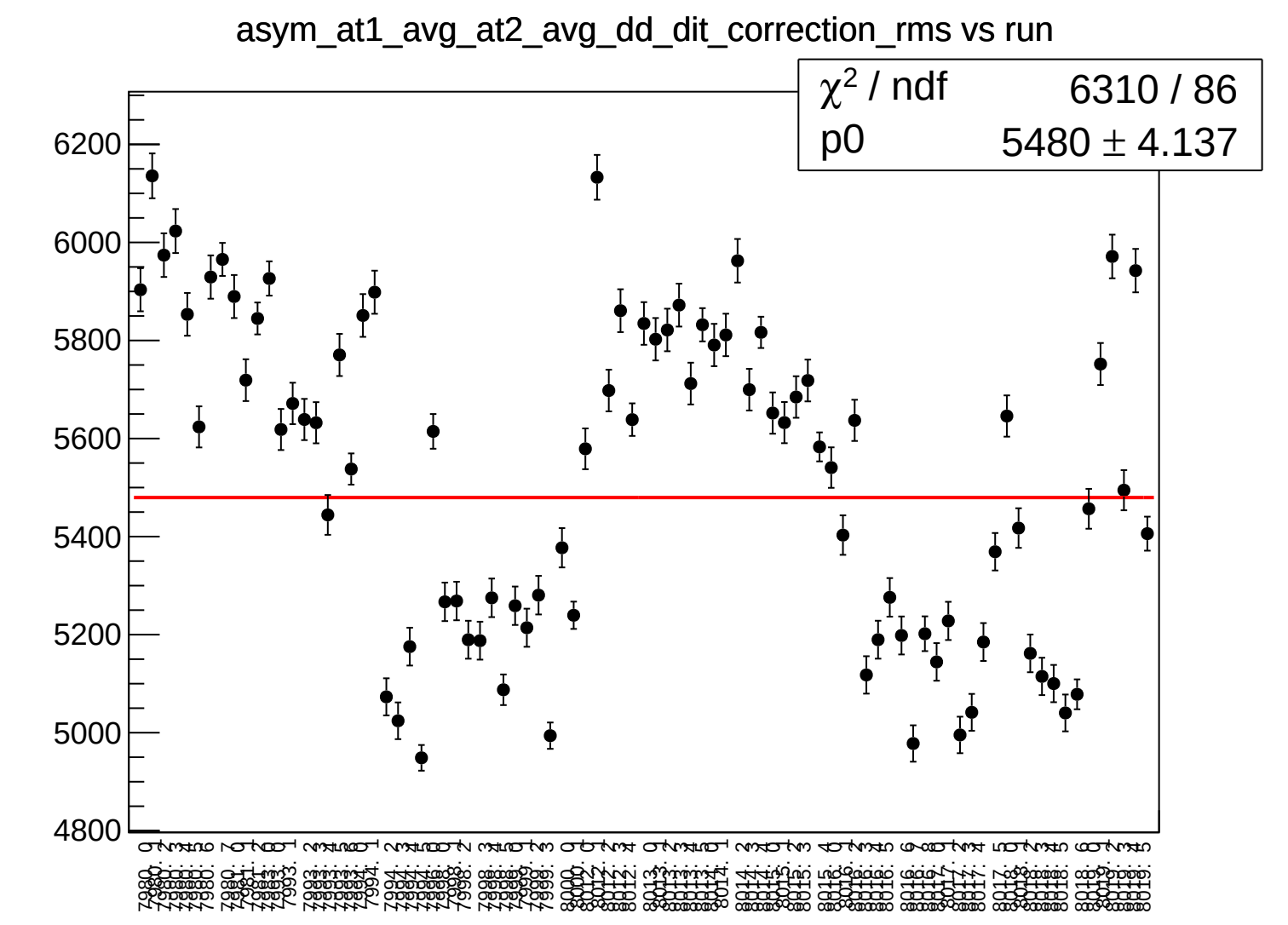

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 75.74 / 86
p0 −3456 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 462.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

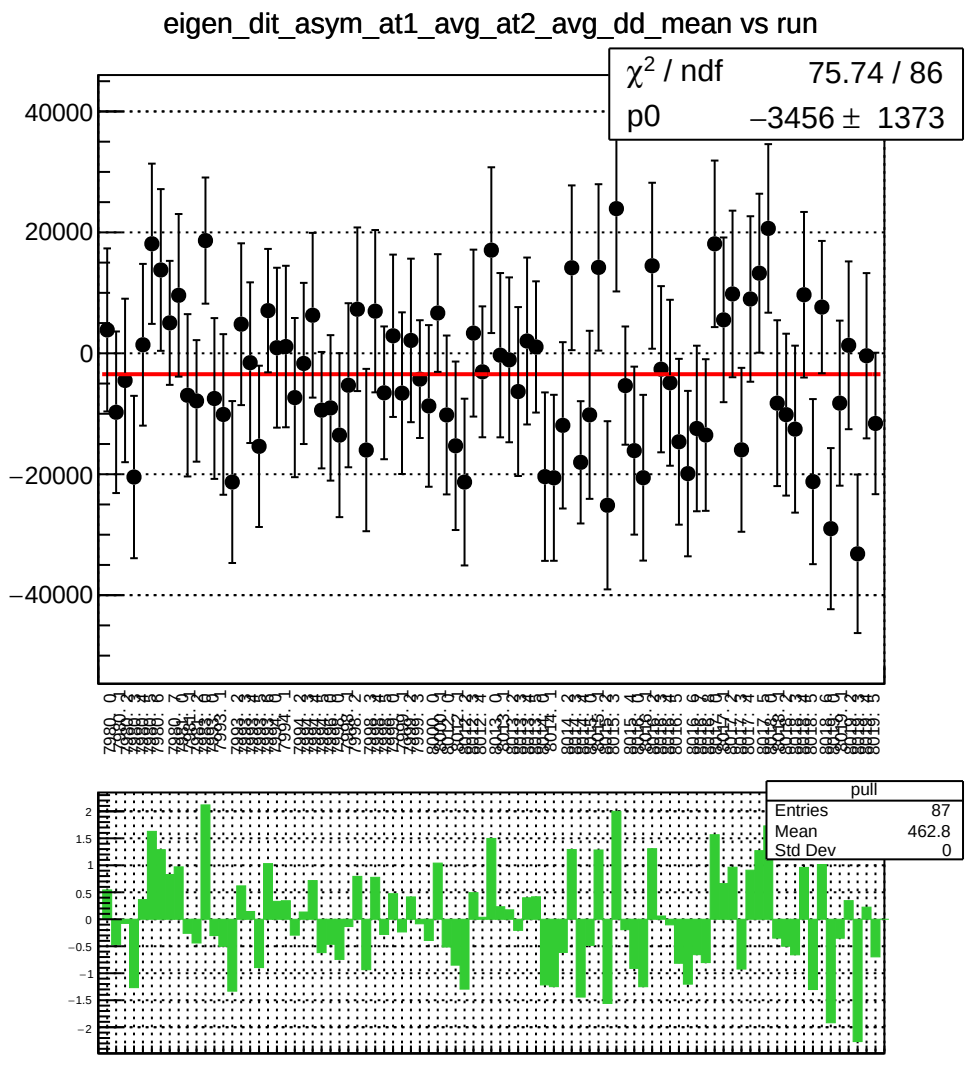

pull1D
Entries 87
Mean −0.007506
Std Dev 0.933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

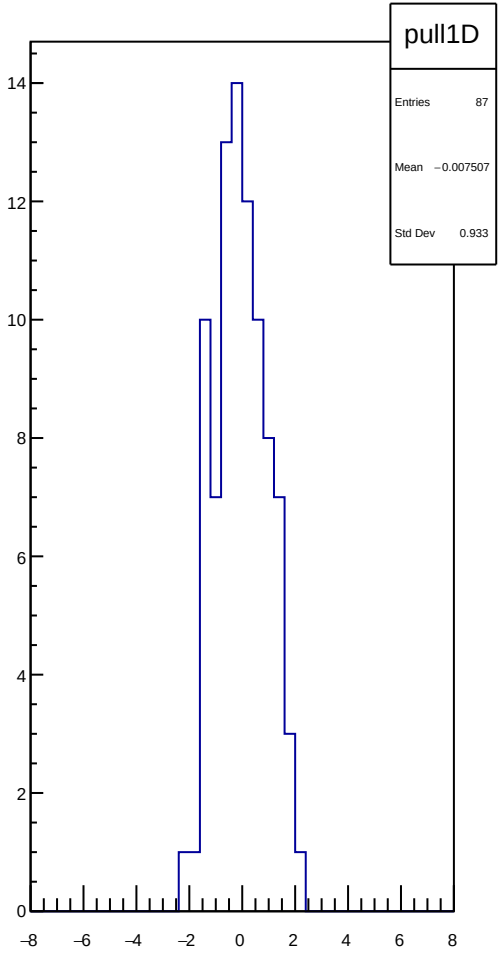

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 476.9 / 86
p0 1288 ± 0.9708
1360
1340
1320
1300
1280
1260
1240

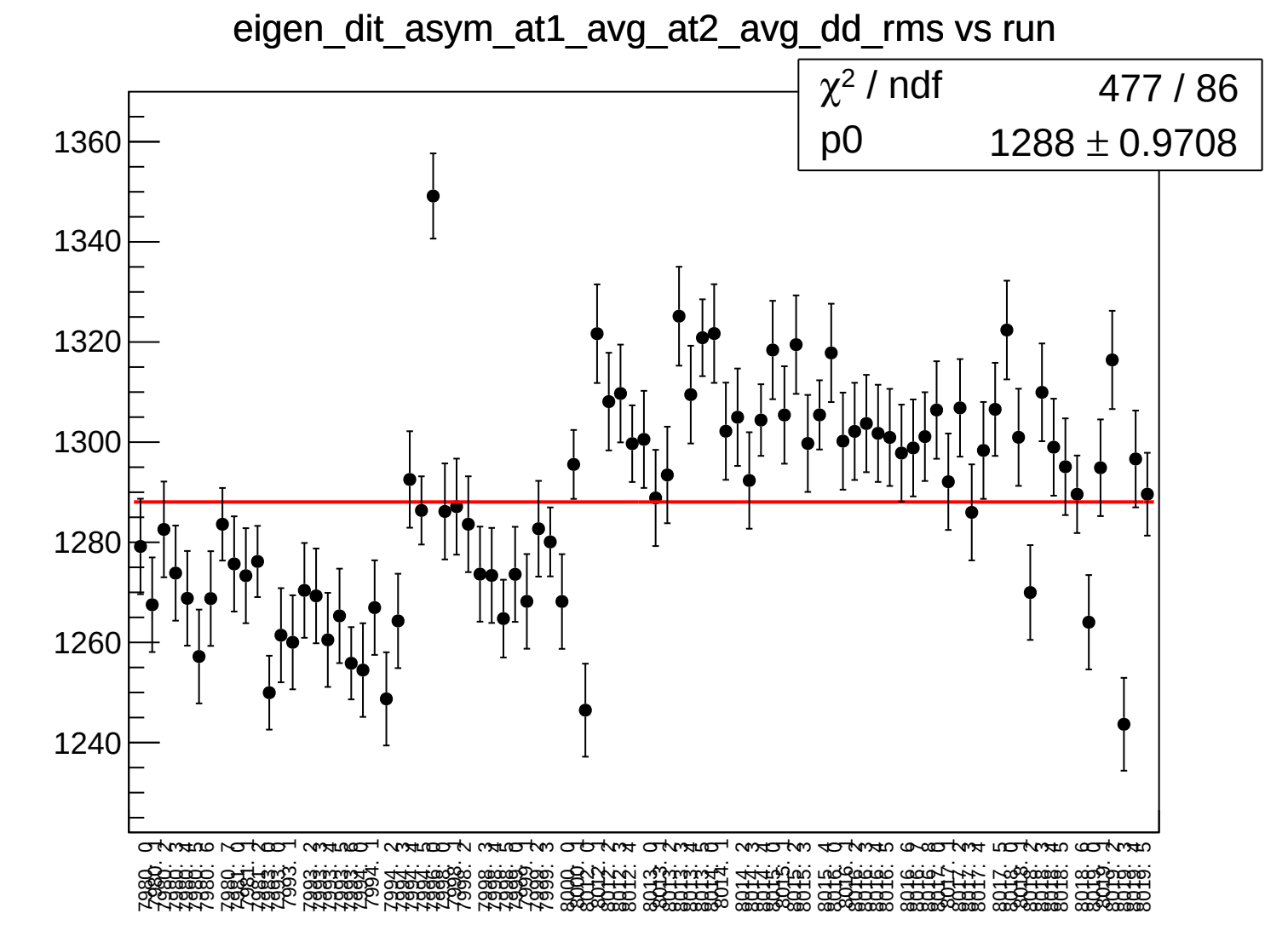

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 89.58 / 86
p0 1.15e+04 ± 5851
200
100
0
−100
−200
pull
Entries 87
Mean −20.38
Std Dev 59.24
3
2
1
0
−1
−2

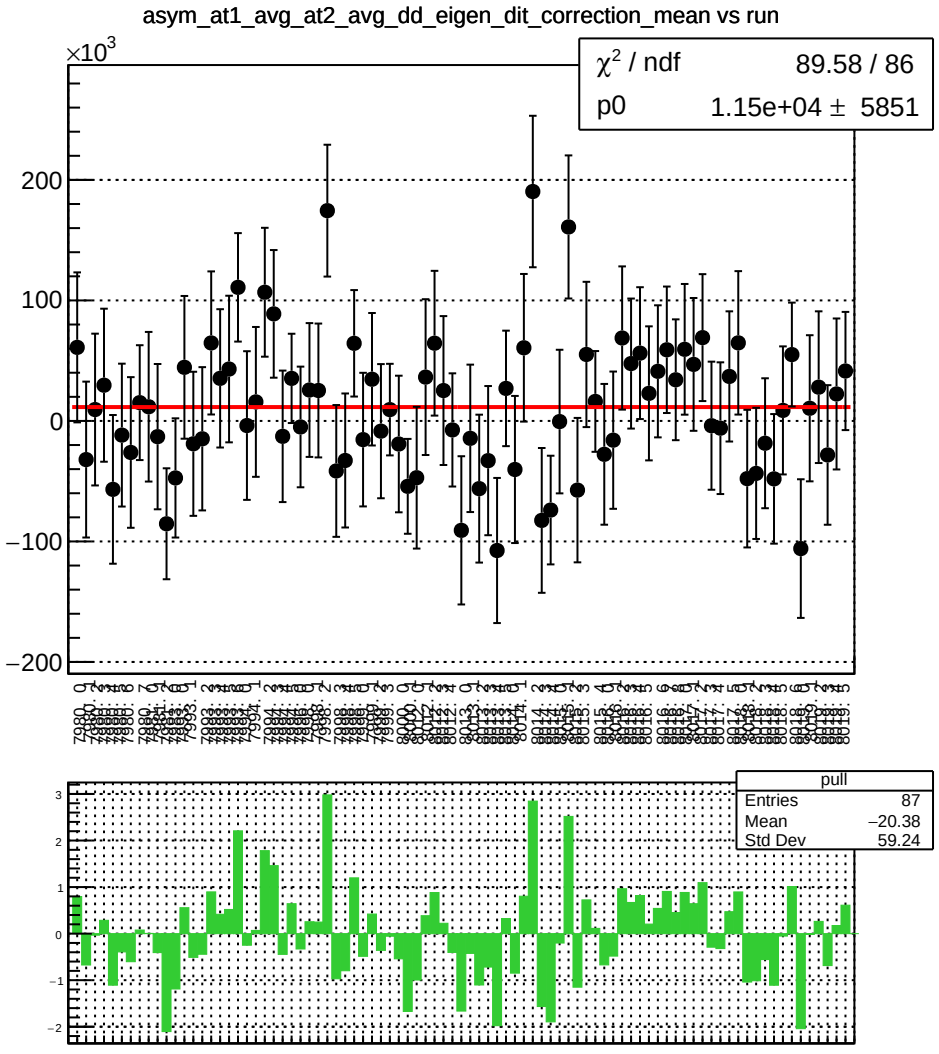

pull1D
Entries 87
Mean −0.004094
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

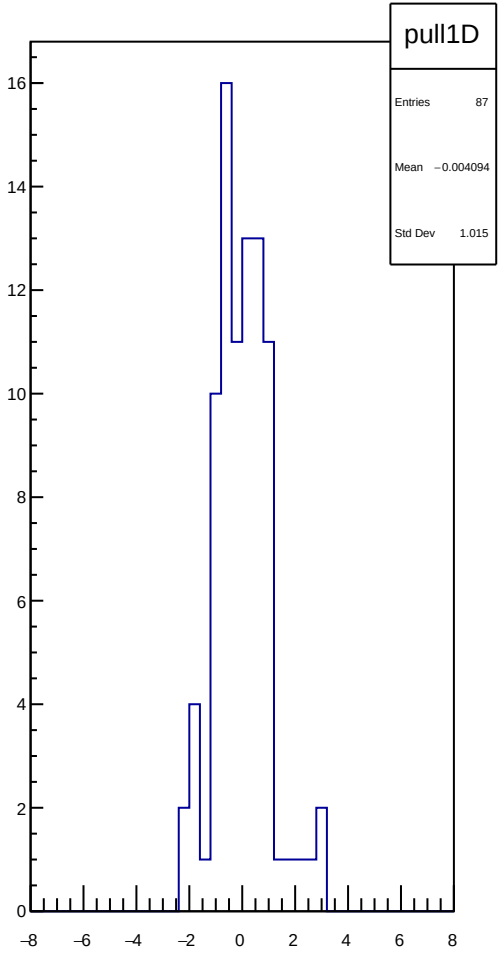

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 6310 / 86
p0 5480 ± 4.137
6200
6000
5800
5600
5400
5200
5000
4800

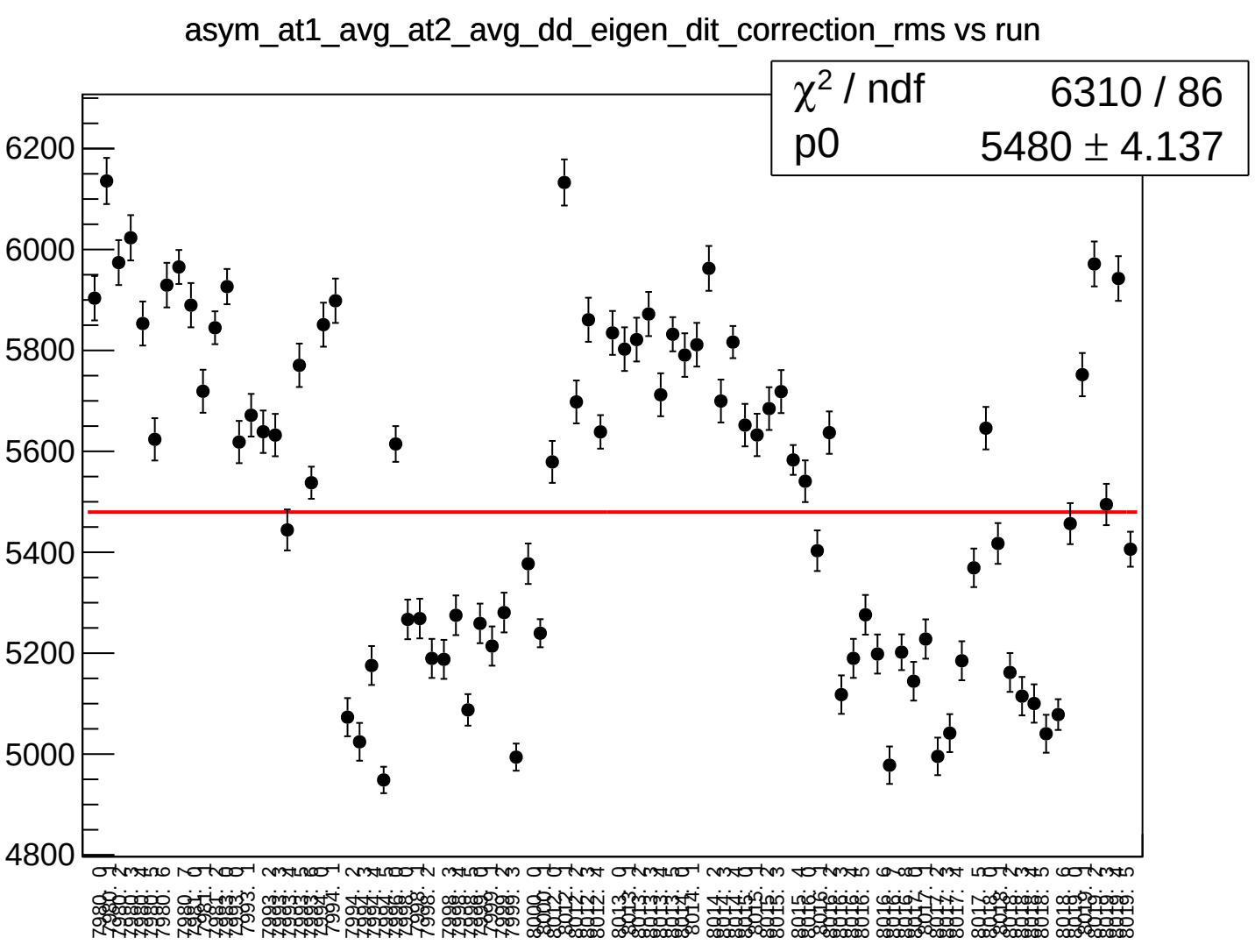

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 75.74 / 86
p0 −3456 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 462.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

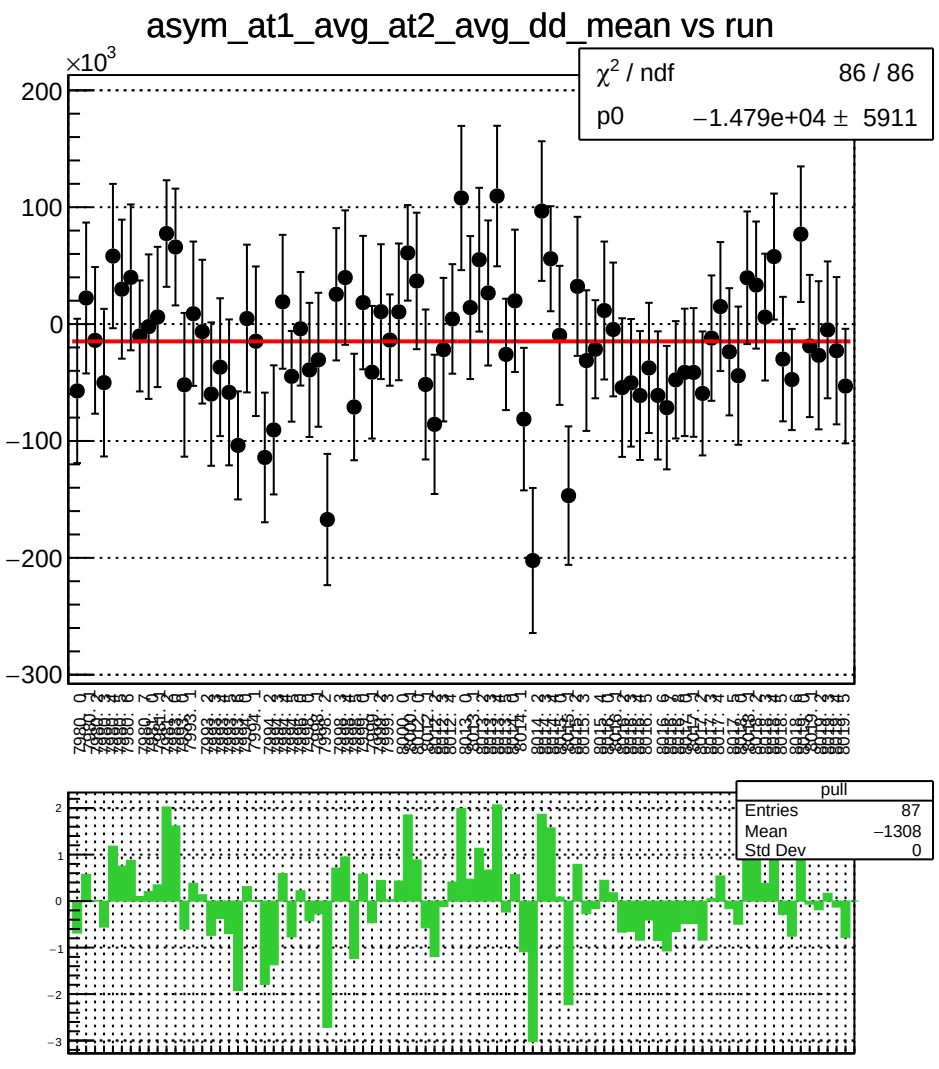

pull1D
Entries 87
Mean −0.007507
Std Dev 0.933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

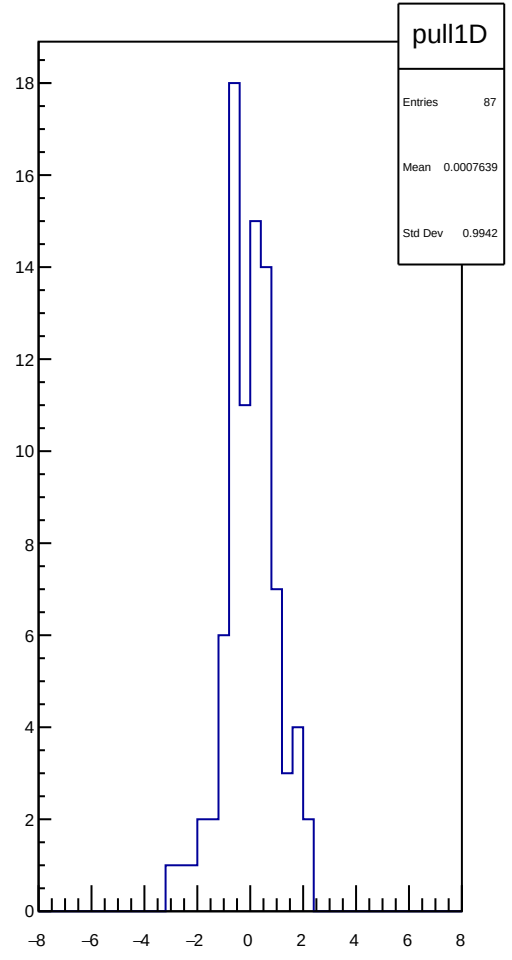

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 477 / 86
p0 1288 ± 0.9708
1360
1340
1320
1300
1280
1260
1240

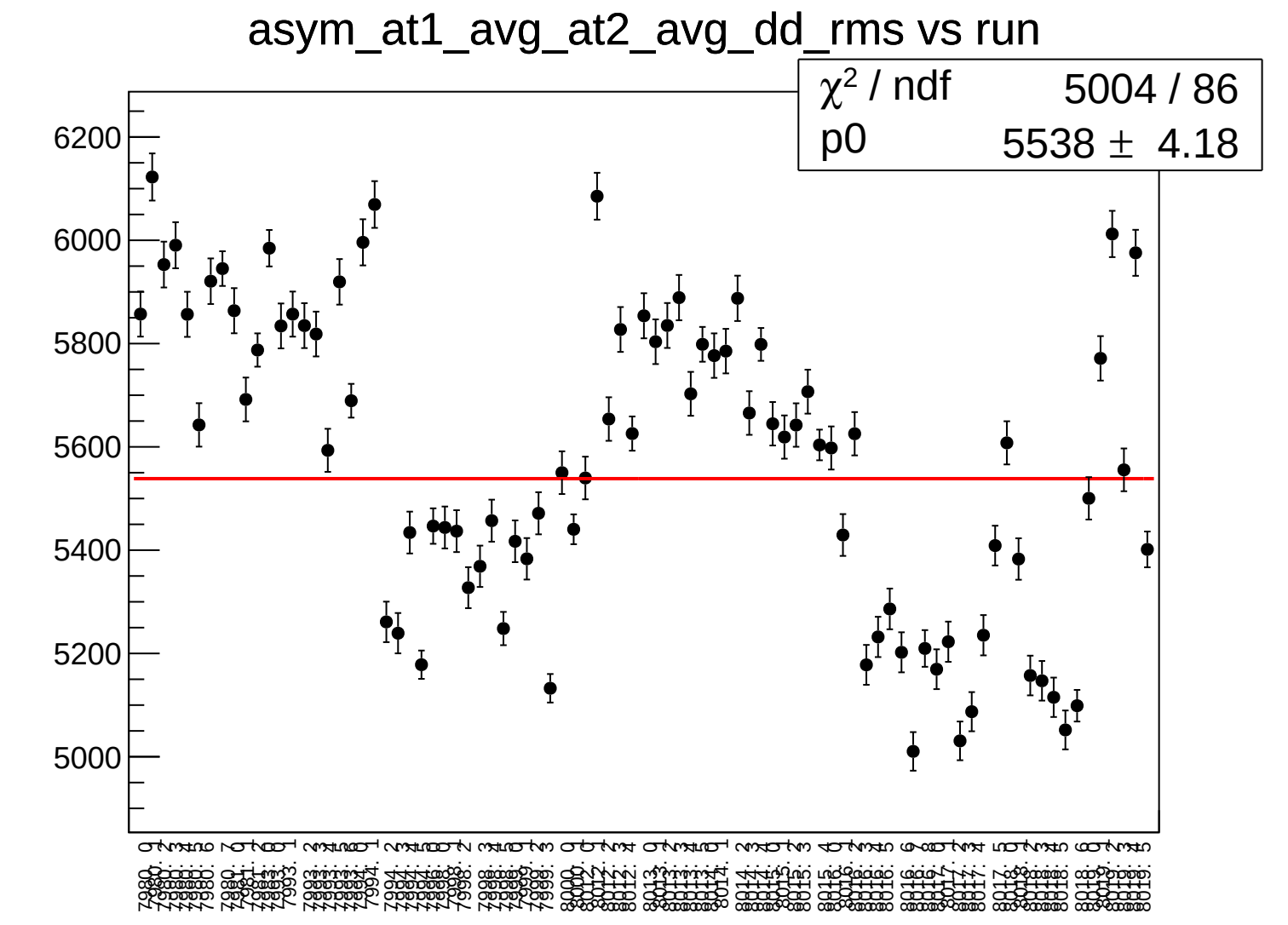

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.58 / 86
p0 1.15e+04 ± 5851
200
100
0
−100
−200
pull
Entries 87
Mean −20.38
Std Dev 59.24
3
2
1
0
−1
−2

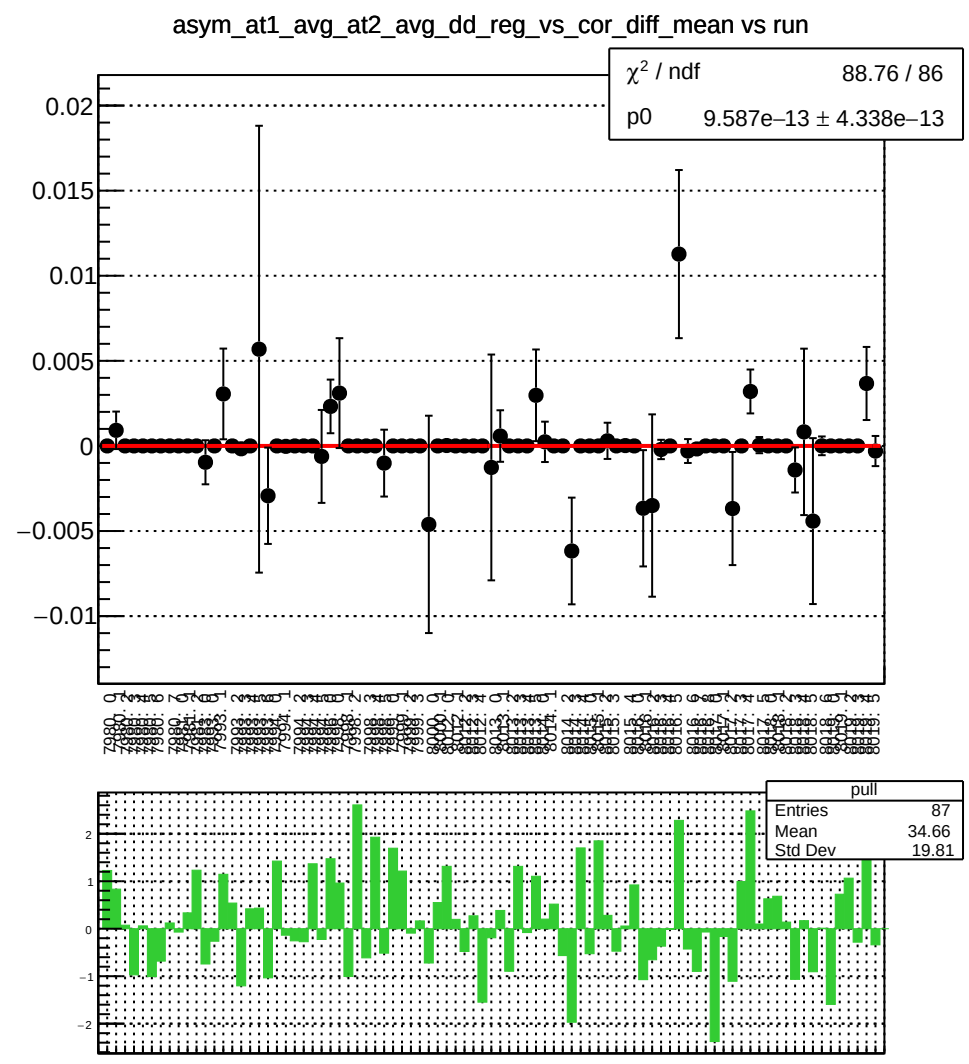

pull1D
Entries 87
Mean −0.004094
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

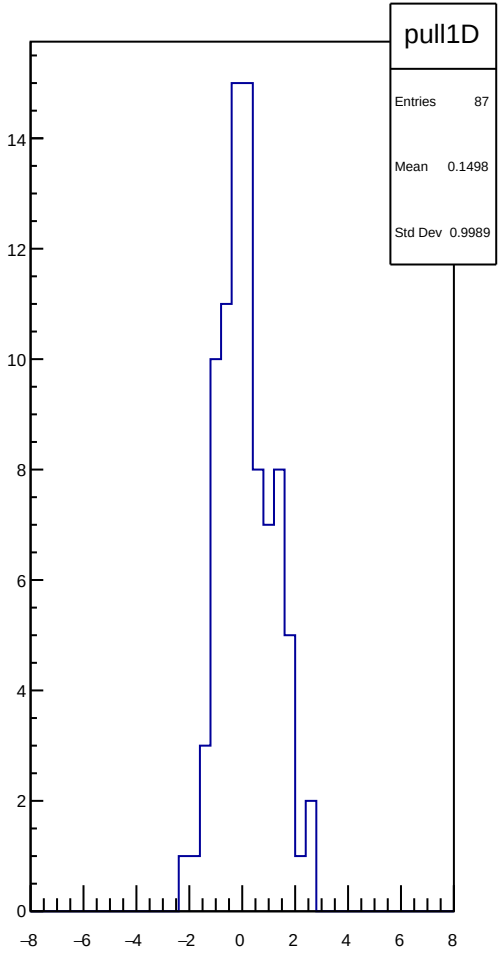

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6310 / 86
p0 5480 ± 4.137
6200
6000
5800
5600
5400
5200
5000
4800

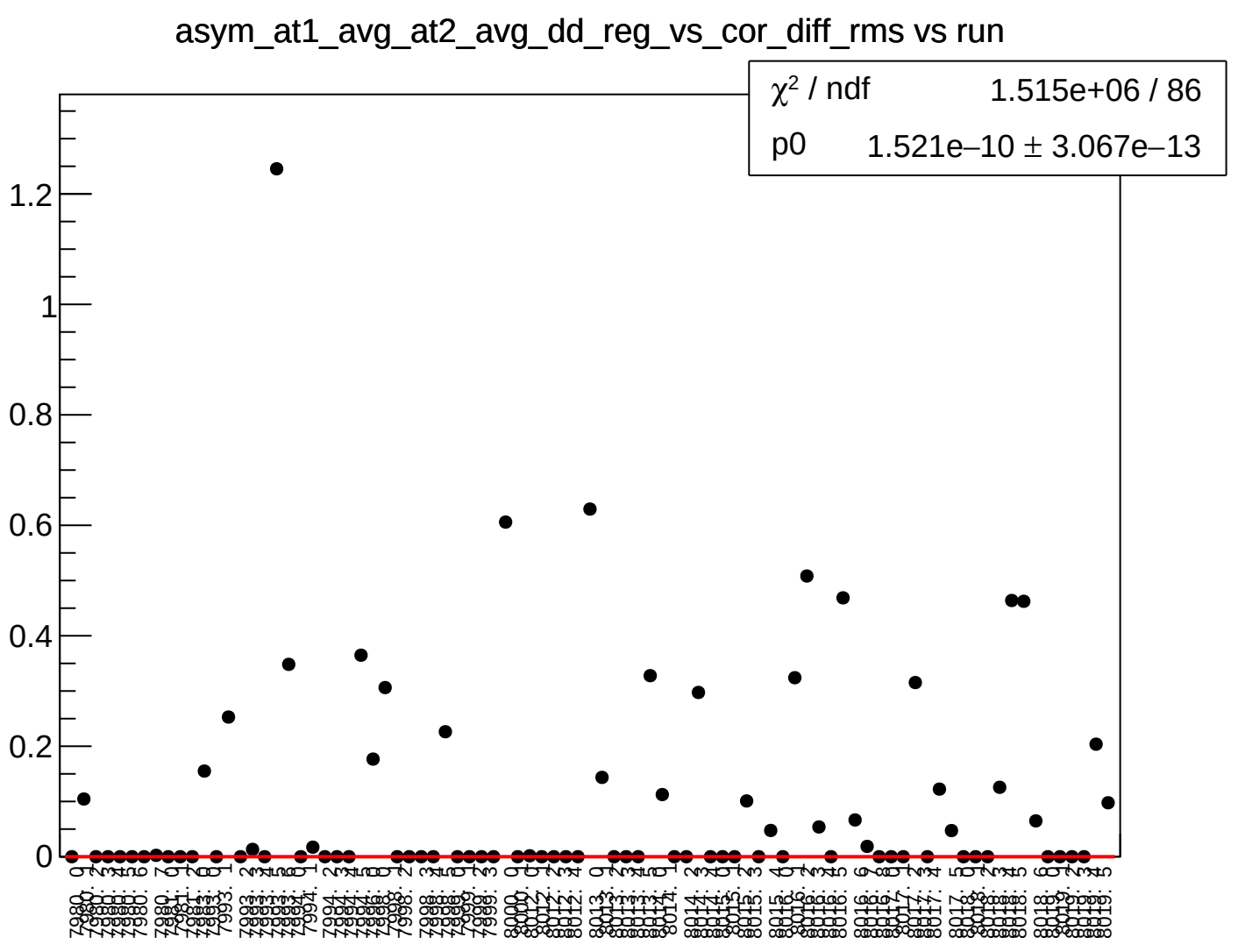

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 86 / 86
p0 −1.479e+04 ± 5911
pull
Entries 87
Mean −1308
Std Dev 0

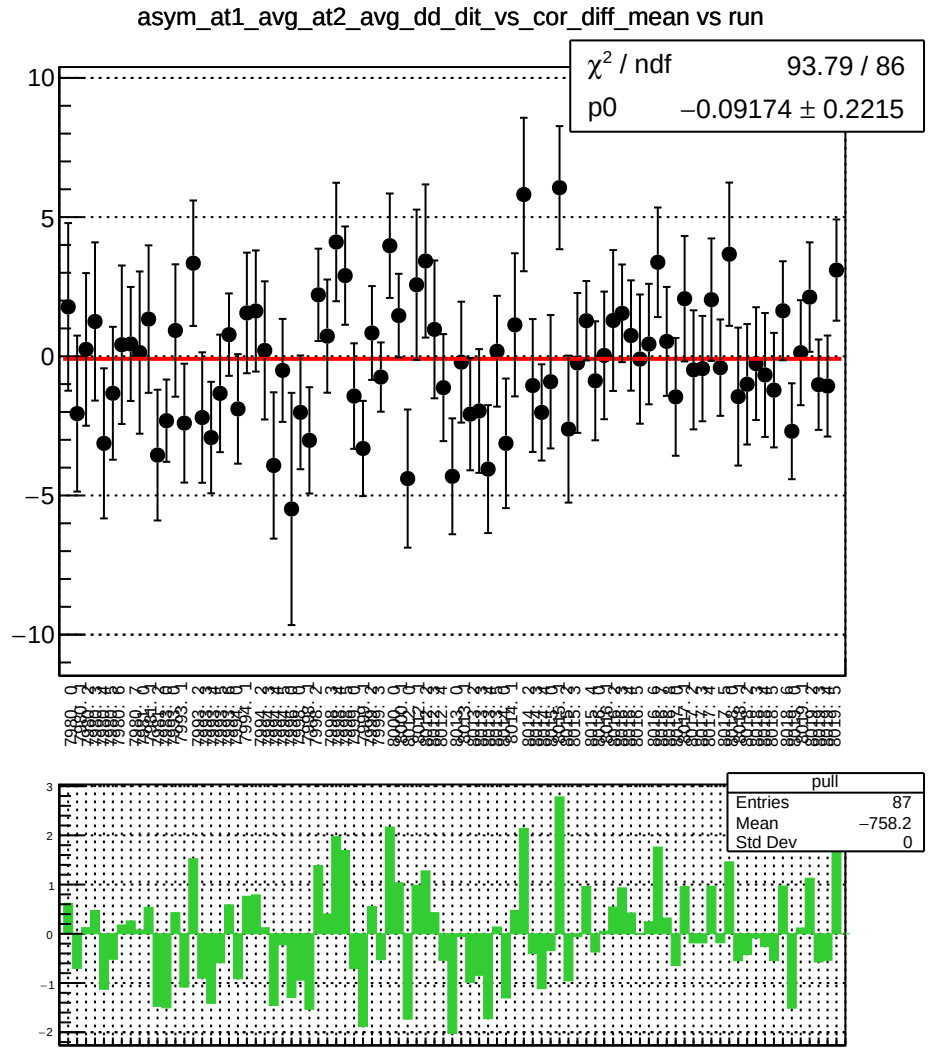

pull1D
Entries 87
Mean 0.0007639
Std Dev 0.9942

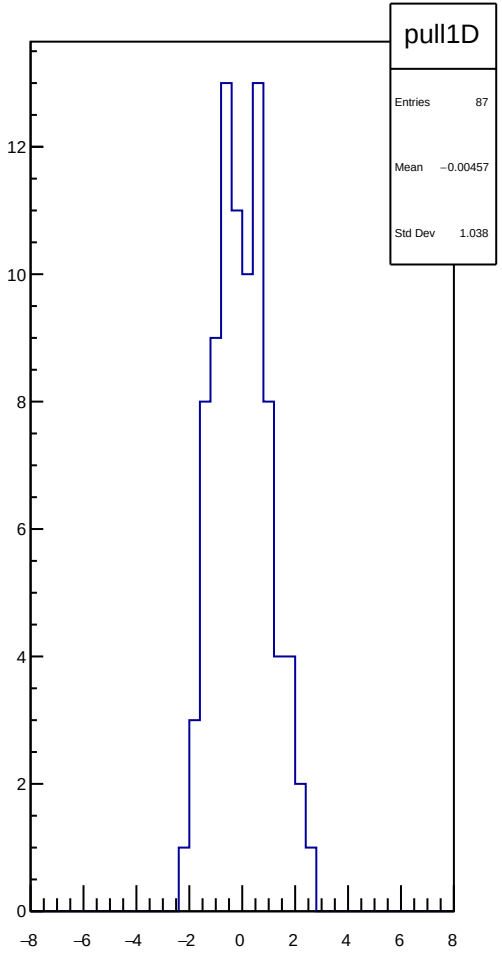

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 5004 / 86
p0 5538 ± 4.18
6200
6000
5800
5600
5400
5200
5000

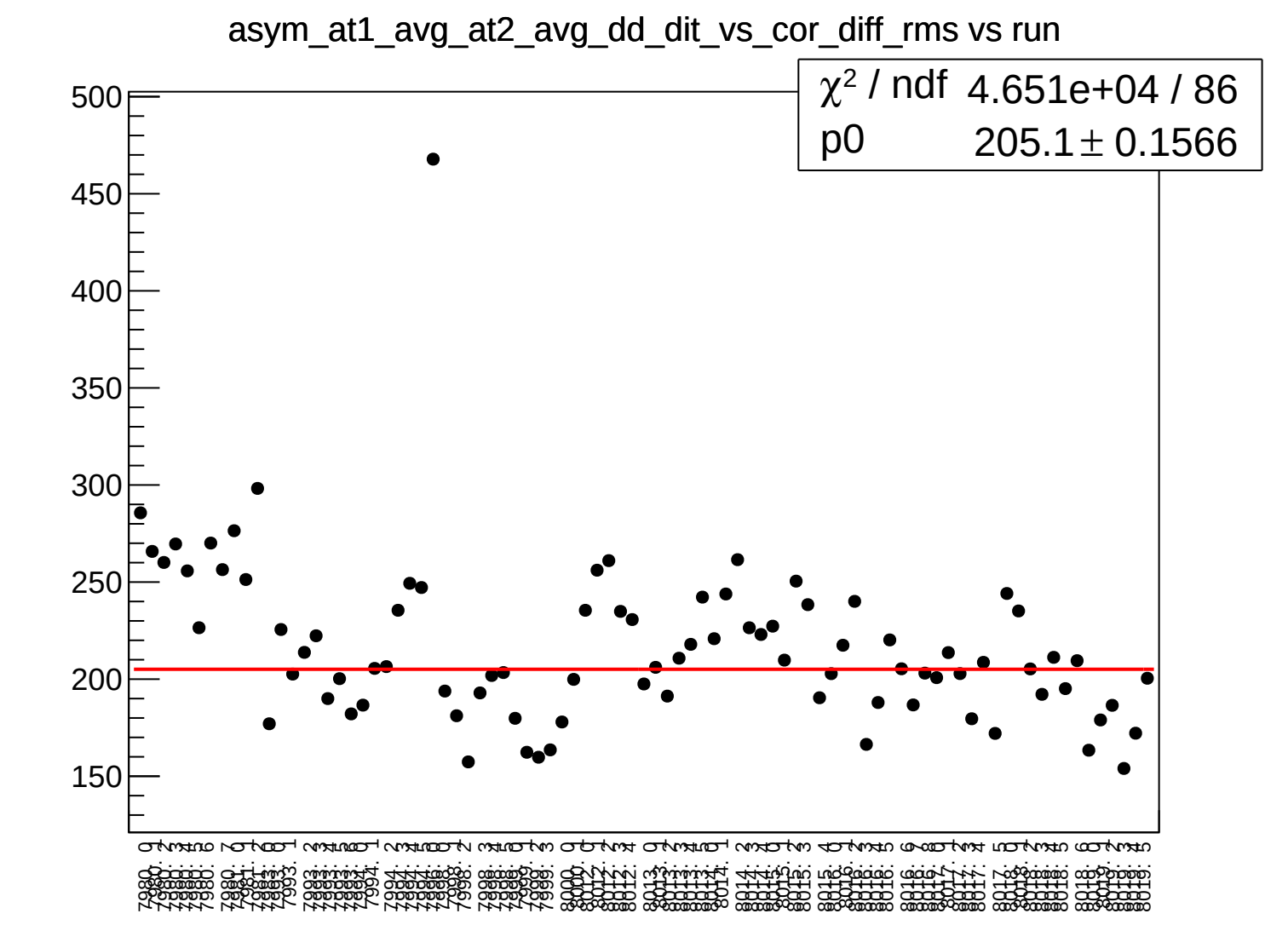

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.76 / 86
p0 9.587e−13 ± 4.338e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 34.66
Std Dev 19.81
2
1
0
−1
−2

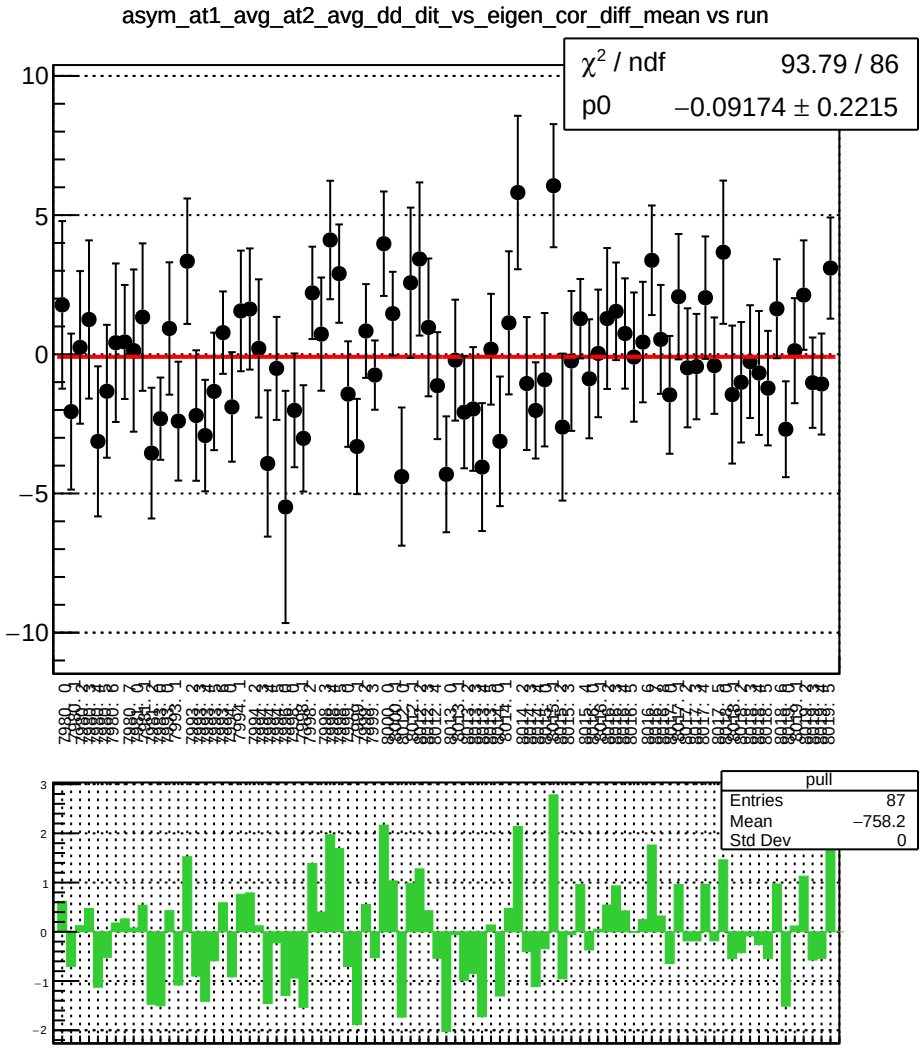

pull1D
Entries 87
Mean 0.1498
Std Dev 0.9989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

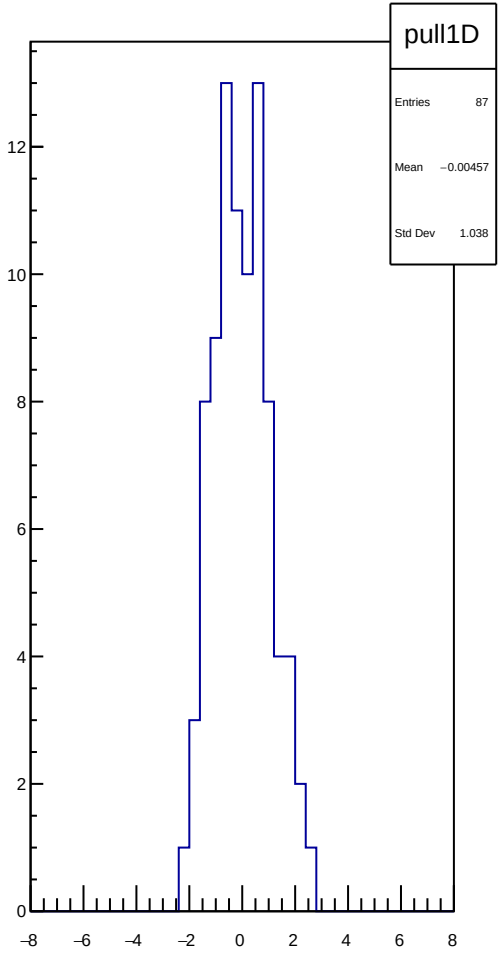

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.515e+06 / 86
p0 1.521e−10 ± 3.067e−13
1.2
1
0.8
0.6
0.4
0.2
0

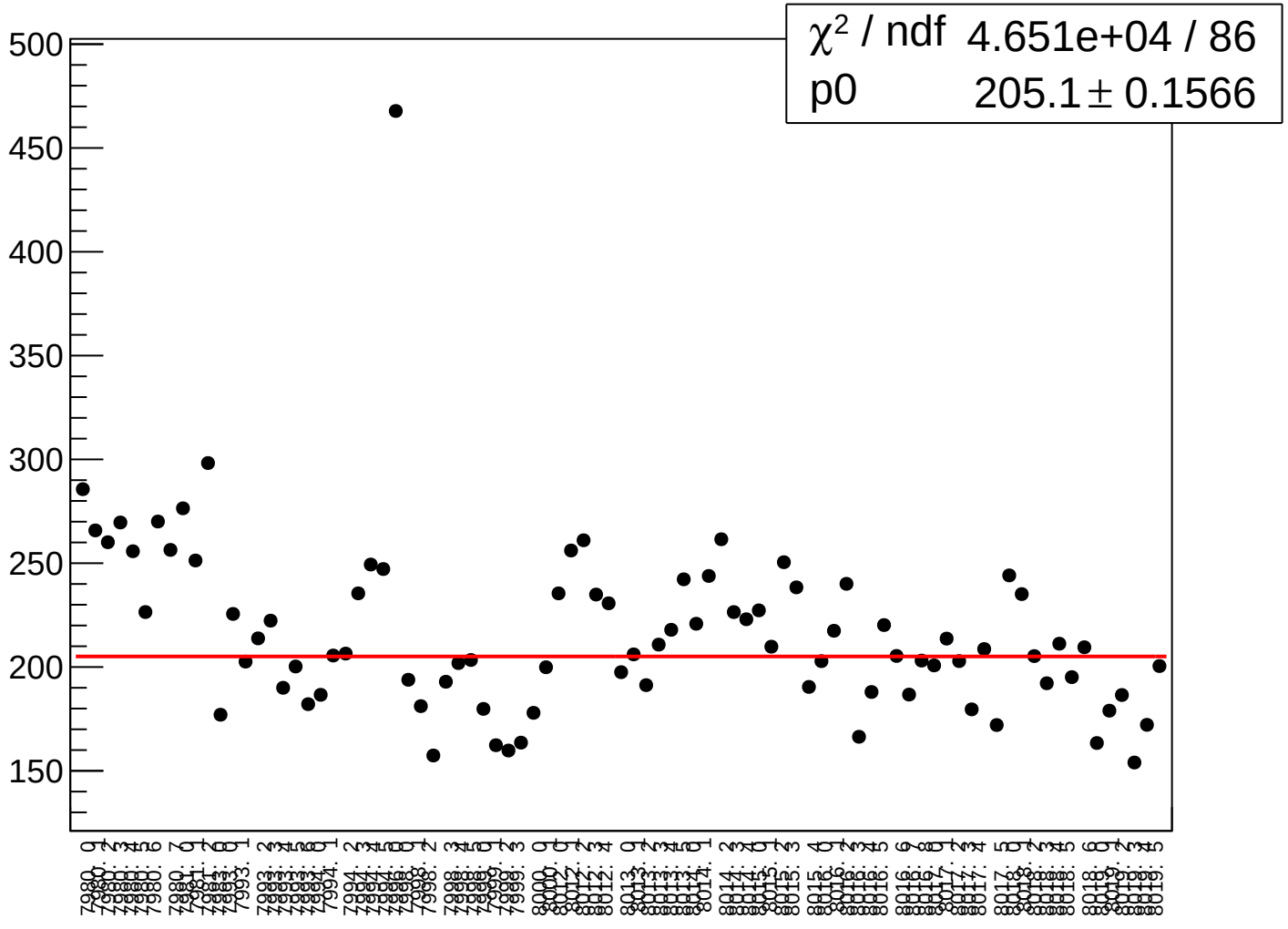

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.79 / 86
p0 −0.09174 ± 0.2215
pull
Entries 87
Mean −758.2
Std Dev 0

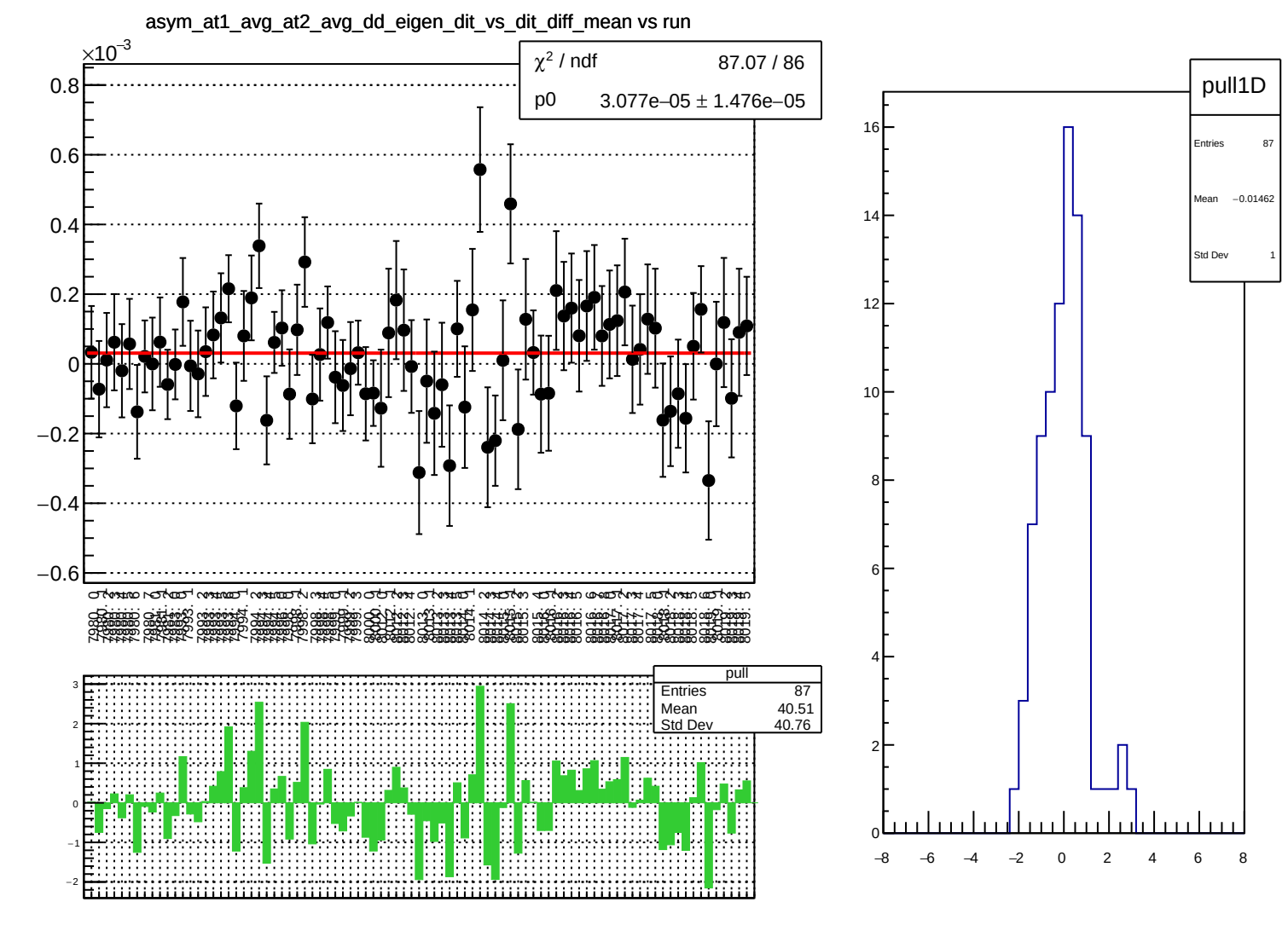

pull1D
Entries 87
Mean −0.00457
Std Dev 1.038

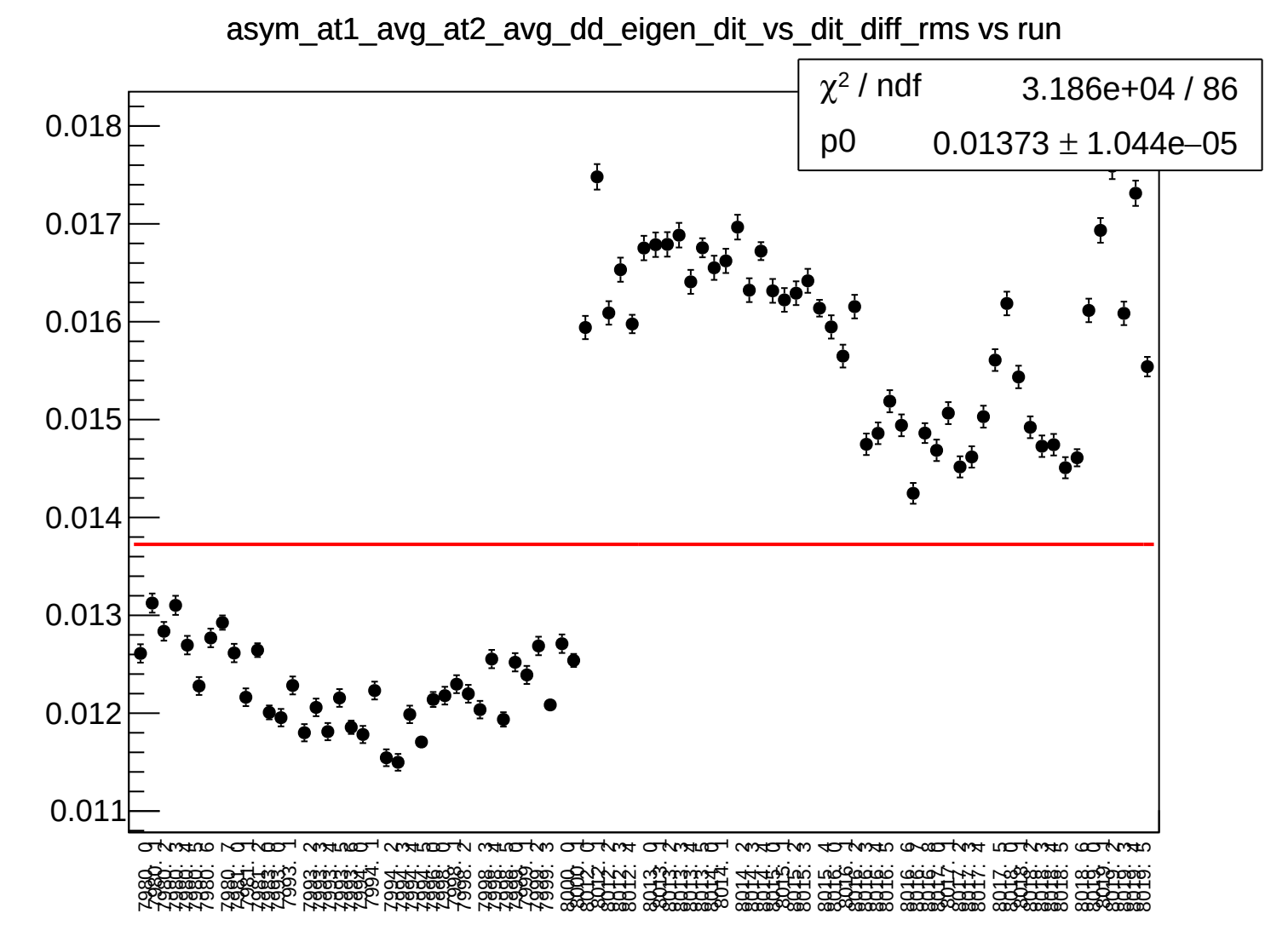

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.651e+04 / 86
p0 205.1 ± 0.1566
500
450
400
350
300
250
200
150

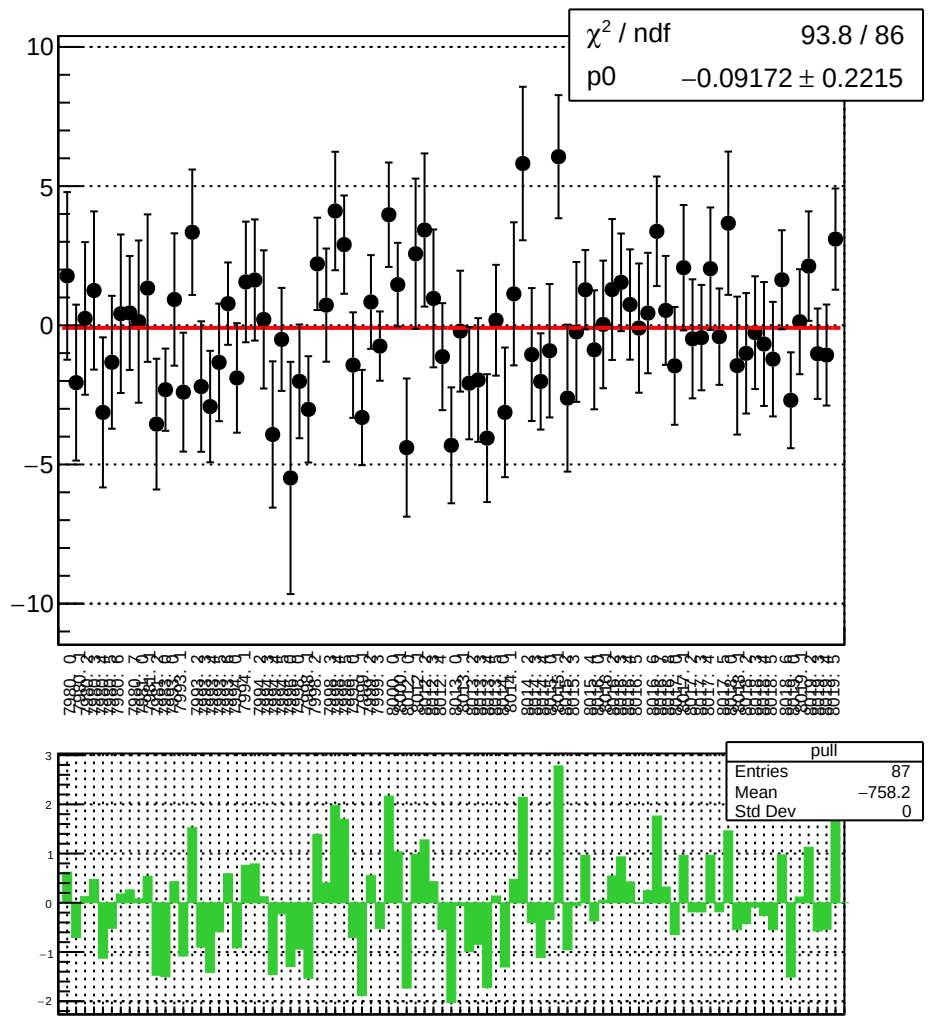

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.79 / 86
p0 −0.09174 ± 0.2215
pull
Entries 87
Mean −758.2
Std Dev 0

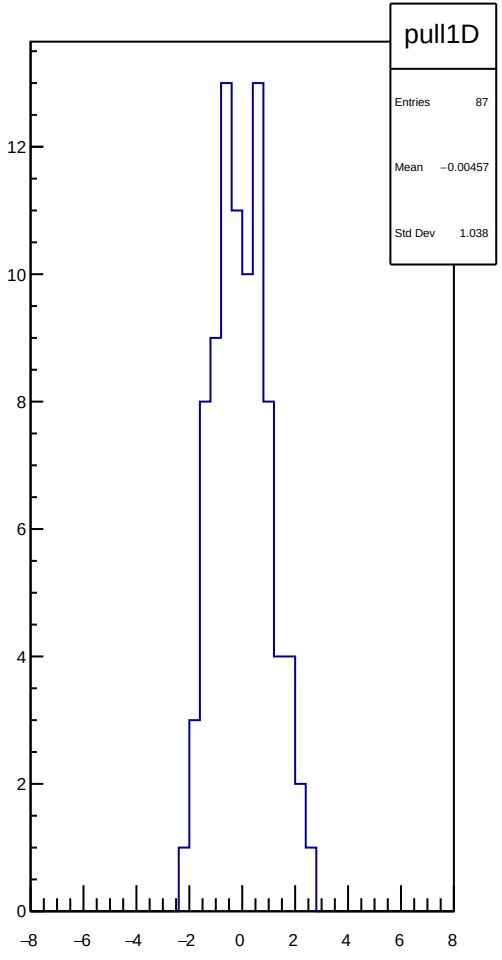

pull1D
Entries 87
Mean −0.00457
Std Dev 1.038

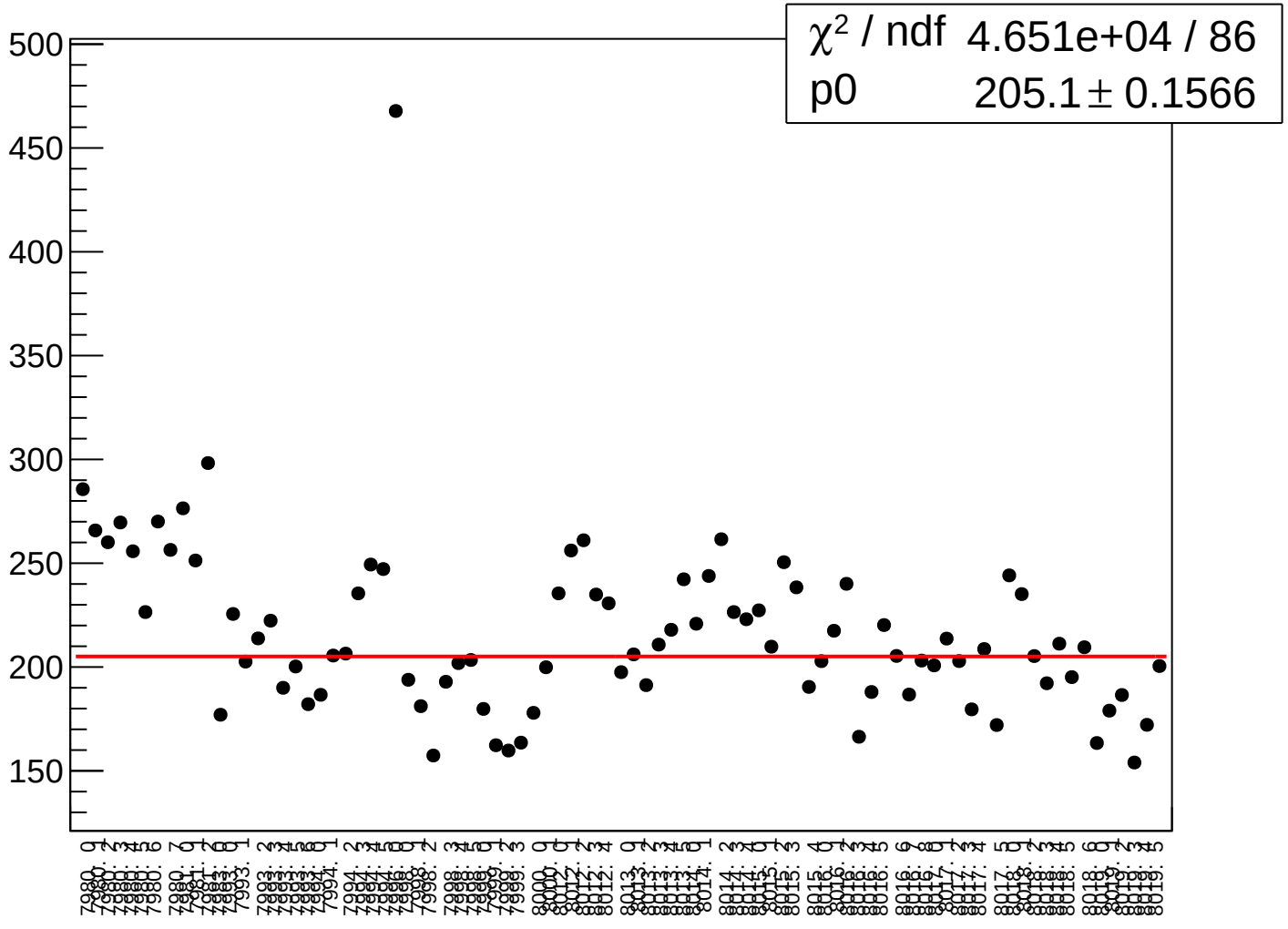

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.651e+04 / 86
p0 205.1 ± 0.1566
500
450
400
350
300
250
200
150

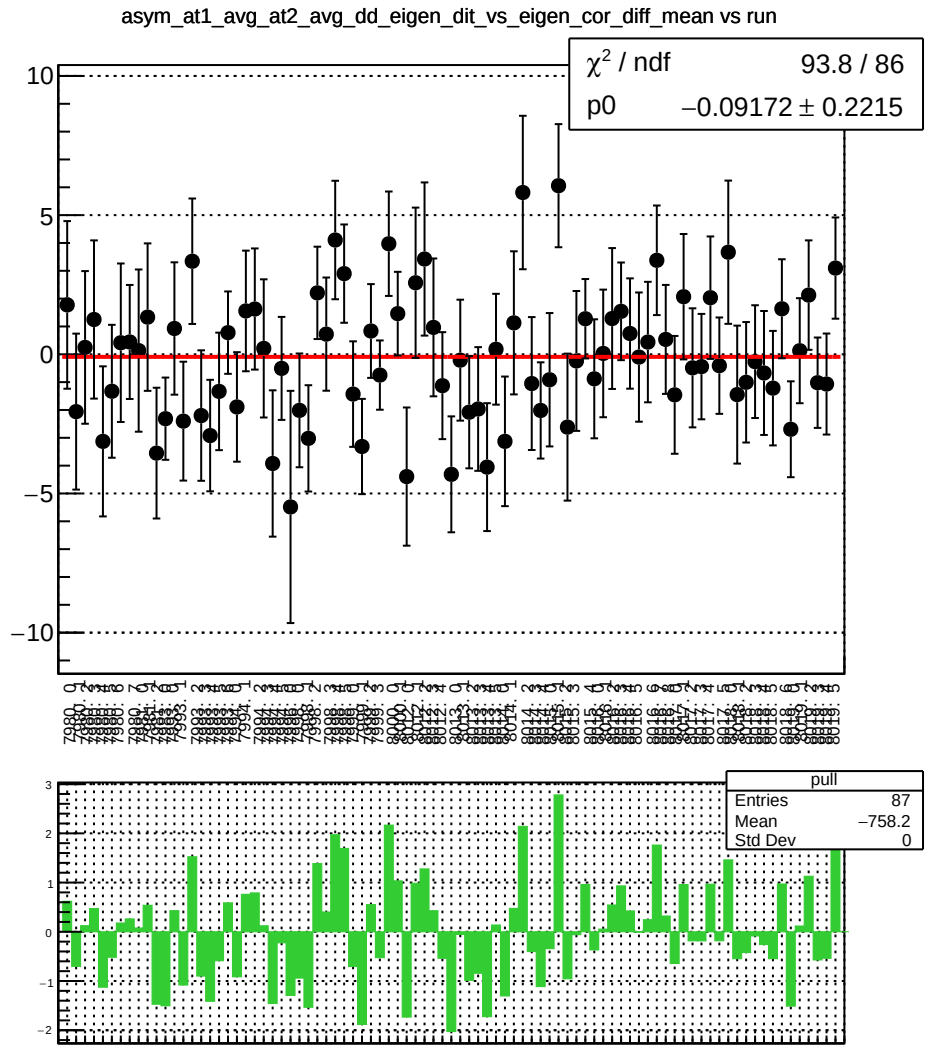

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.07 / 86
p0 3.077e−05 ± 1.476e−05
pull
Entries 87
Mean 40.51
Std Dev 40.76
pull1D
Entries 87
Mean −0.01462
Std Dev 1

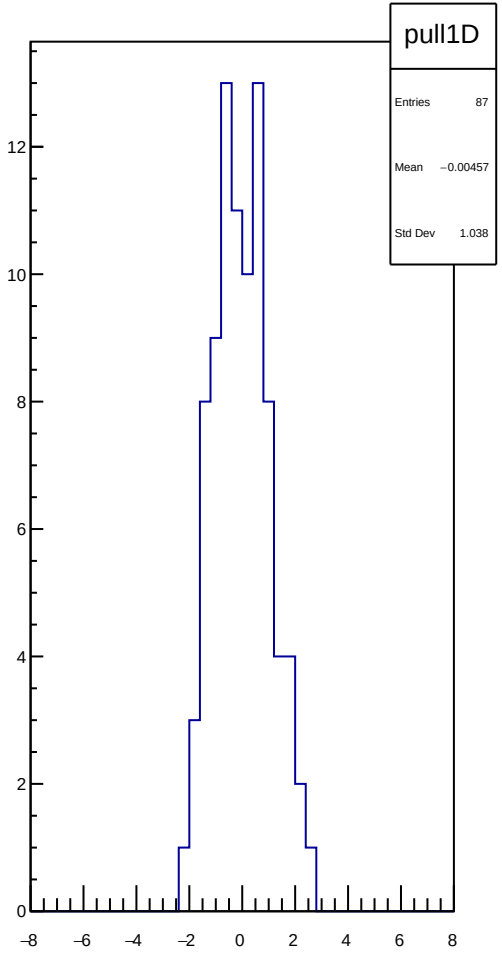

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.186e+04 / 86
p0 0.01373 ± 1.044e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

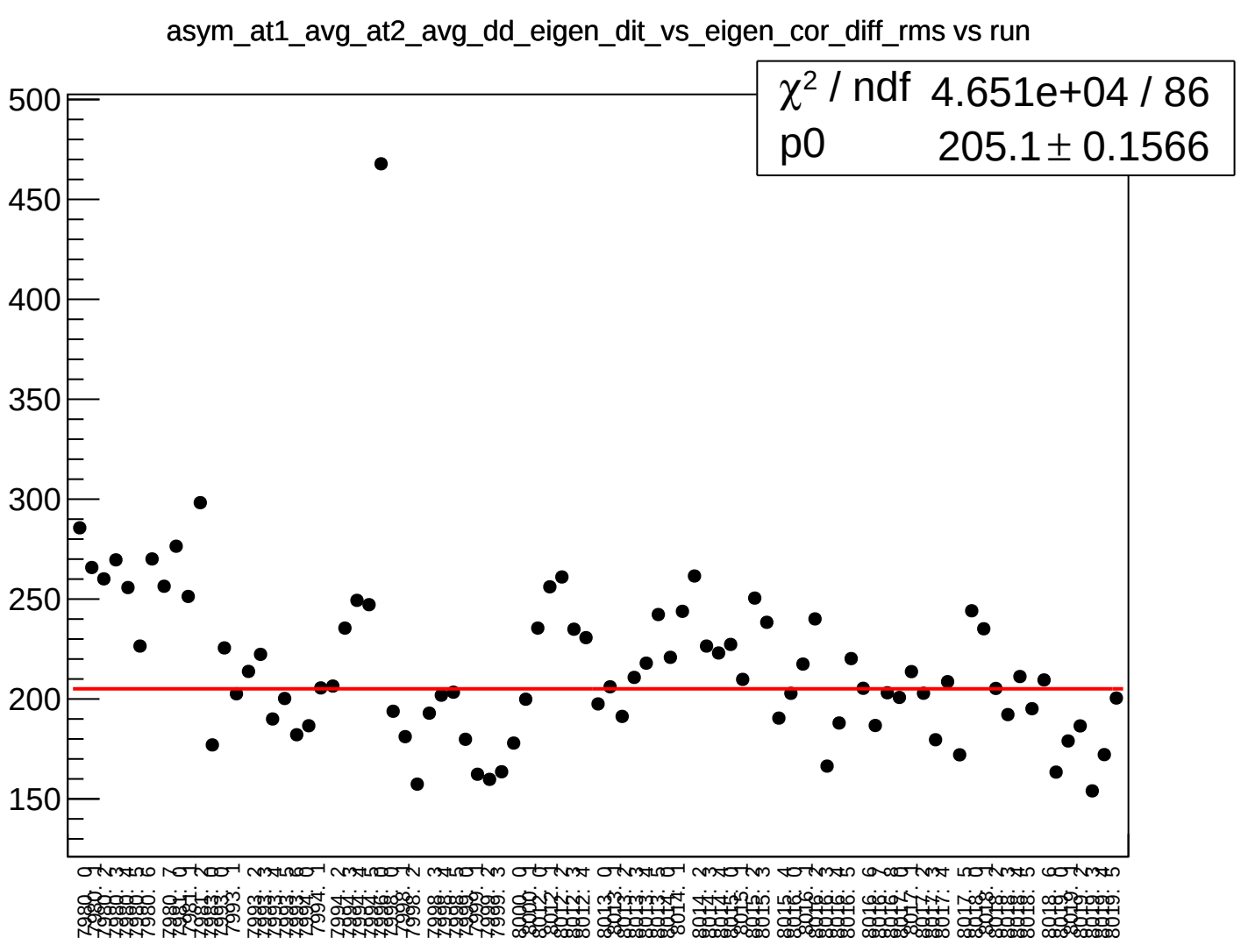

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.8 / 86
p0 −0.09172 ± 0.2215
pull
Entries 87
Mean −758.2
Std Dev 0

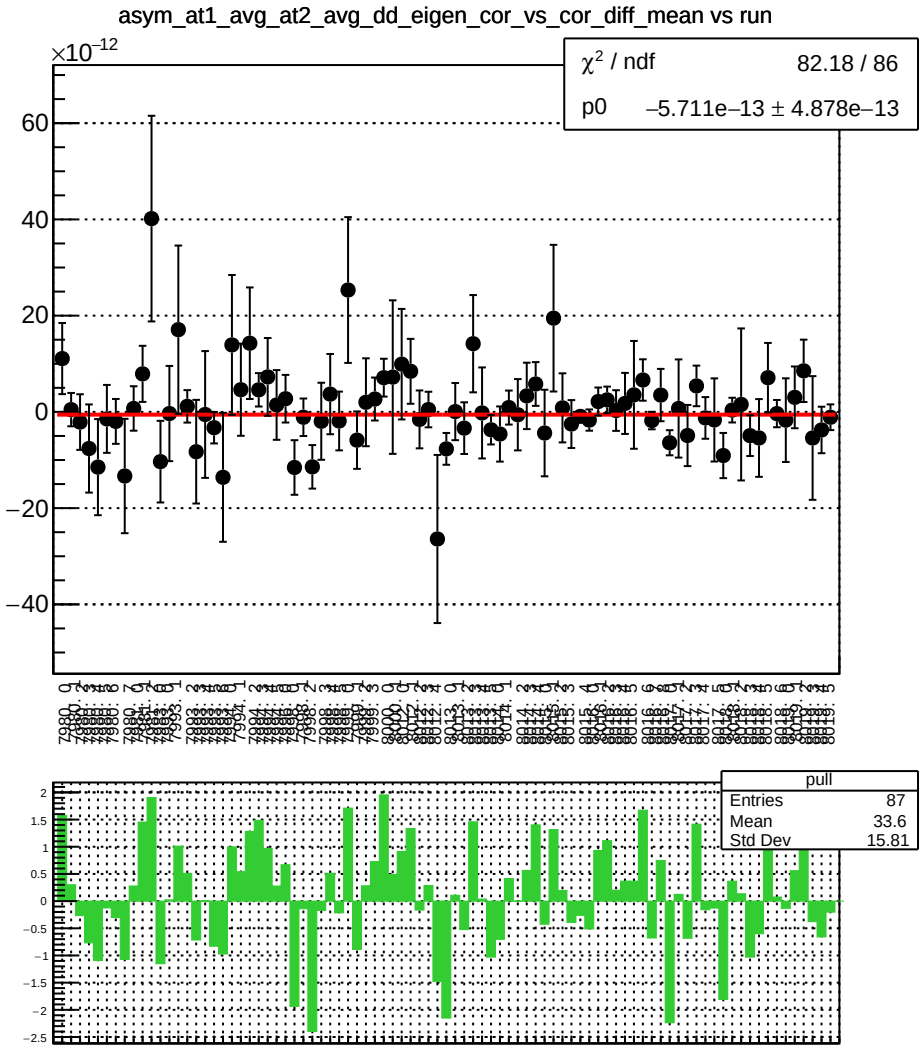

pull1D
Entries 87
Mean −0.00457
Std Dev 1.038

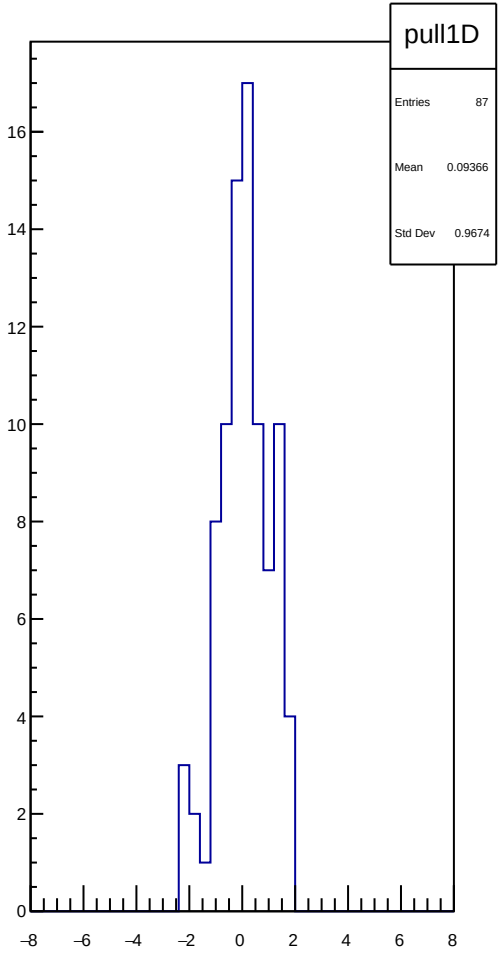

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.651e+04 / 86
p0 205.1 ± 0.1566
500
450
400
350
300
250
200
150

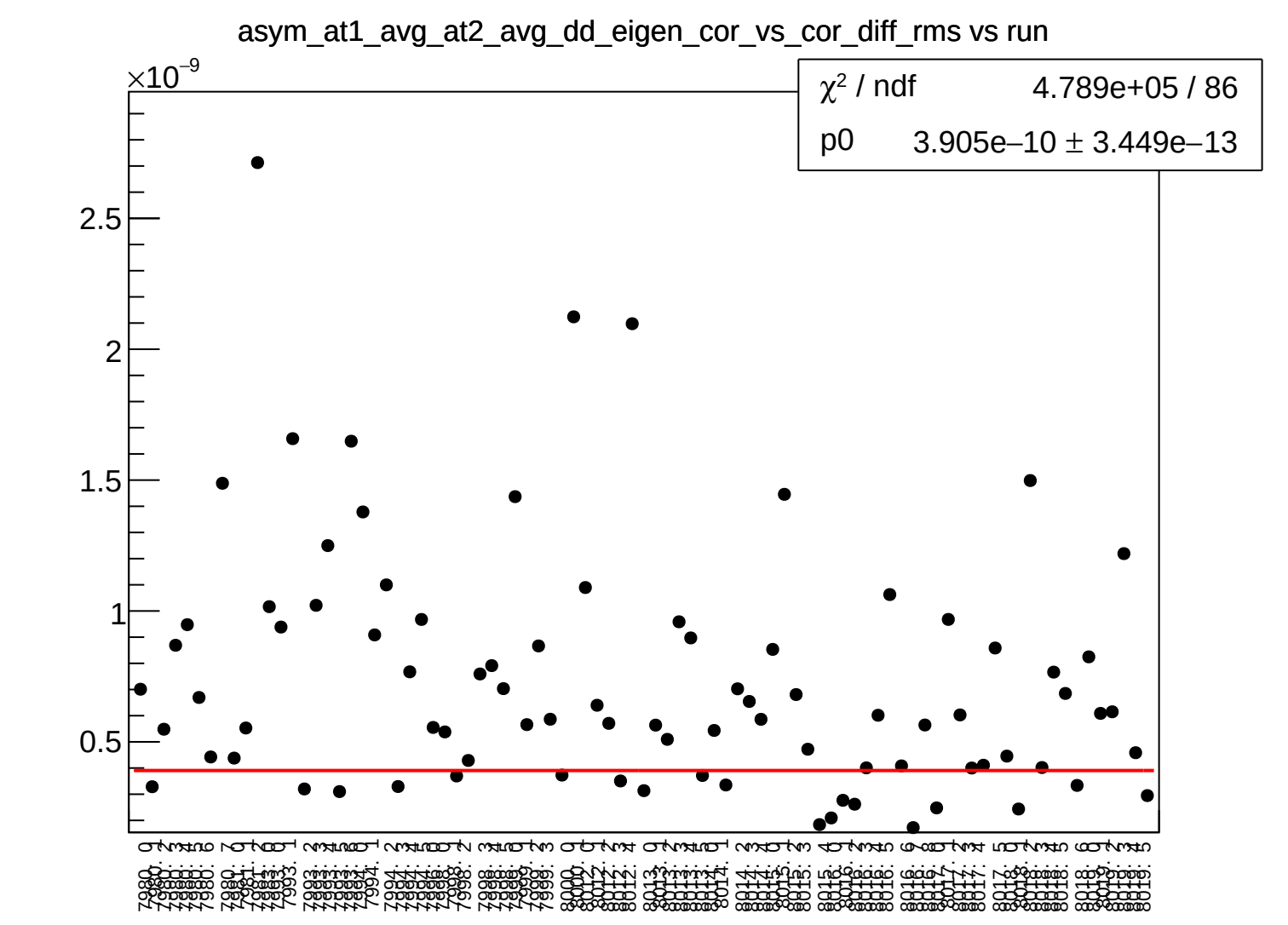

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.8 / 86
p0 −0.09172 ± 0.2215
pull
Entries 87
Mean −758.2
Std Dev 0

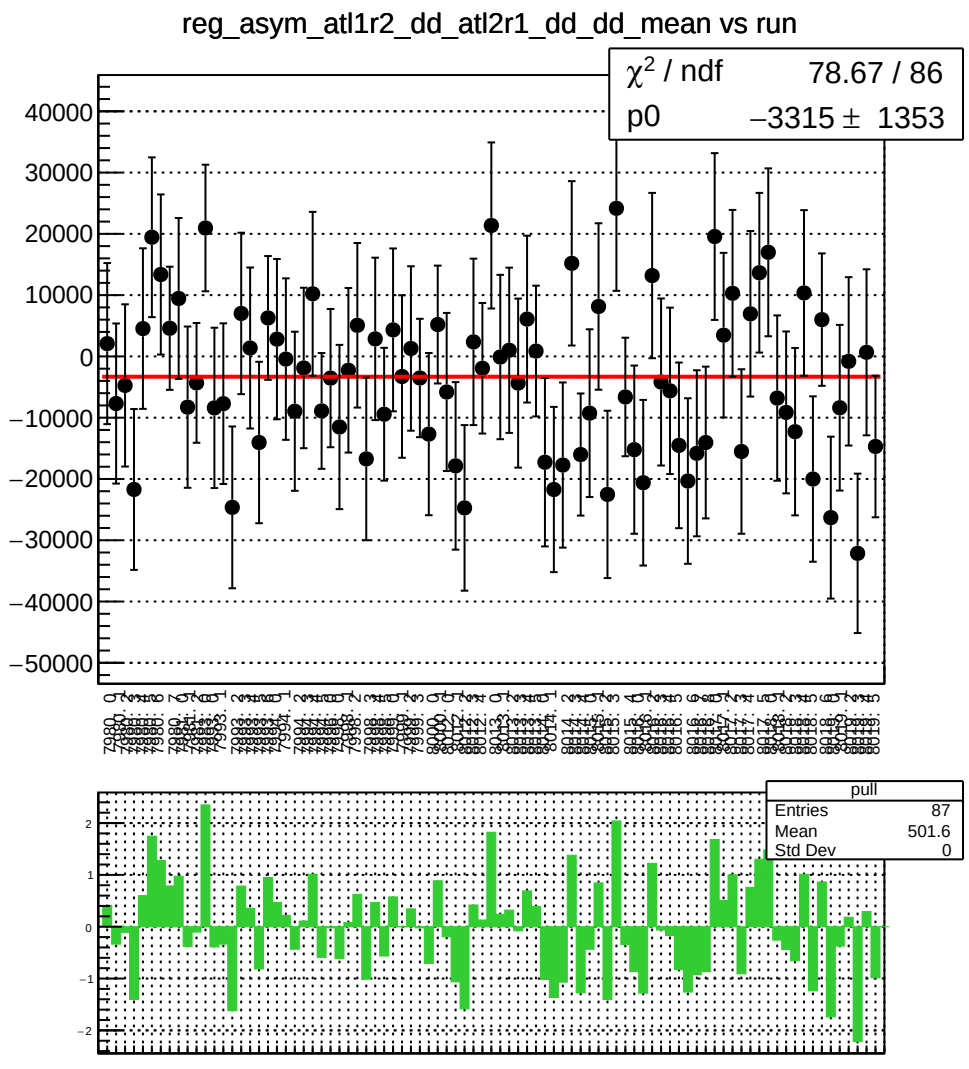

pull1D
Entries 87
Mean −0.00457
Std Dev 1.038

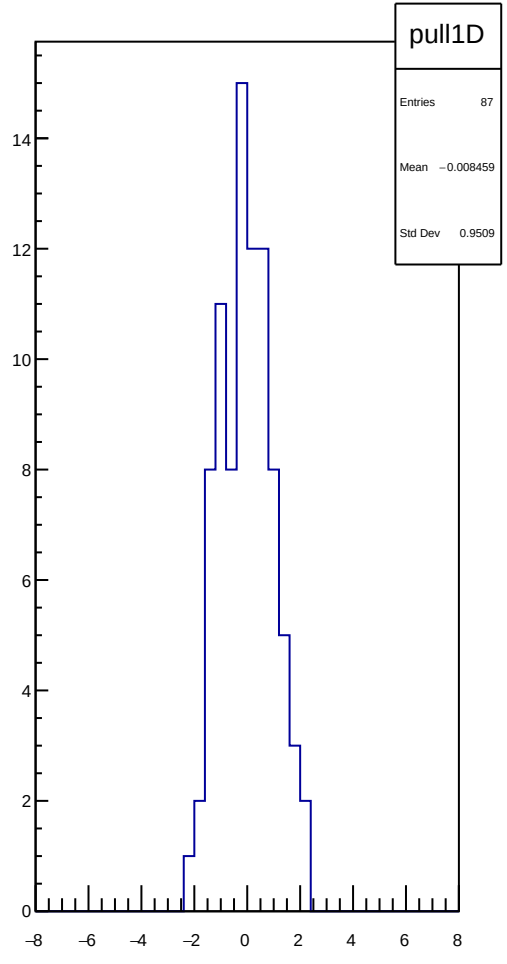

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.651e+04 / 86
p0 205.1 ± 0.1566
500
450
400
350
300
250
200
150

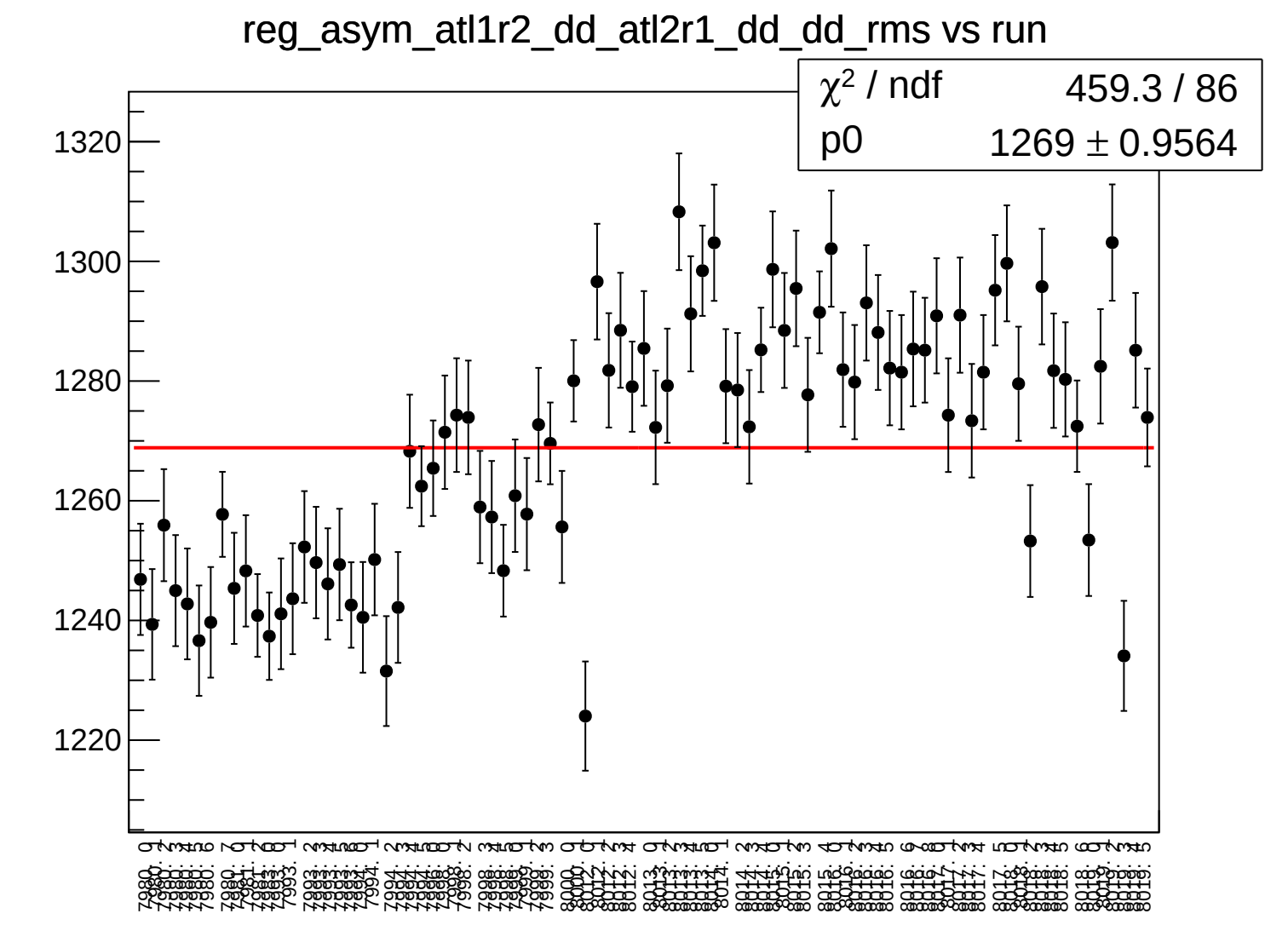

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.18 / 86
p0 −5.711e−13 ± 4.878e−13
pull
Entries 87
Mean 33.6
Std Dev 15.81

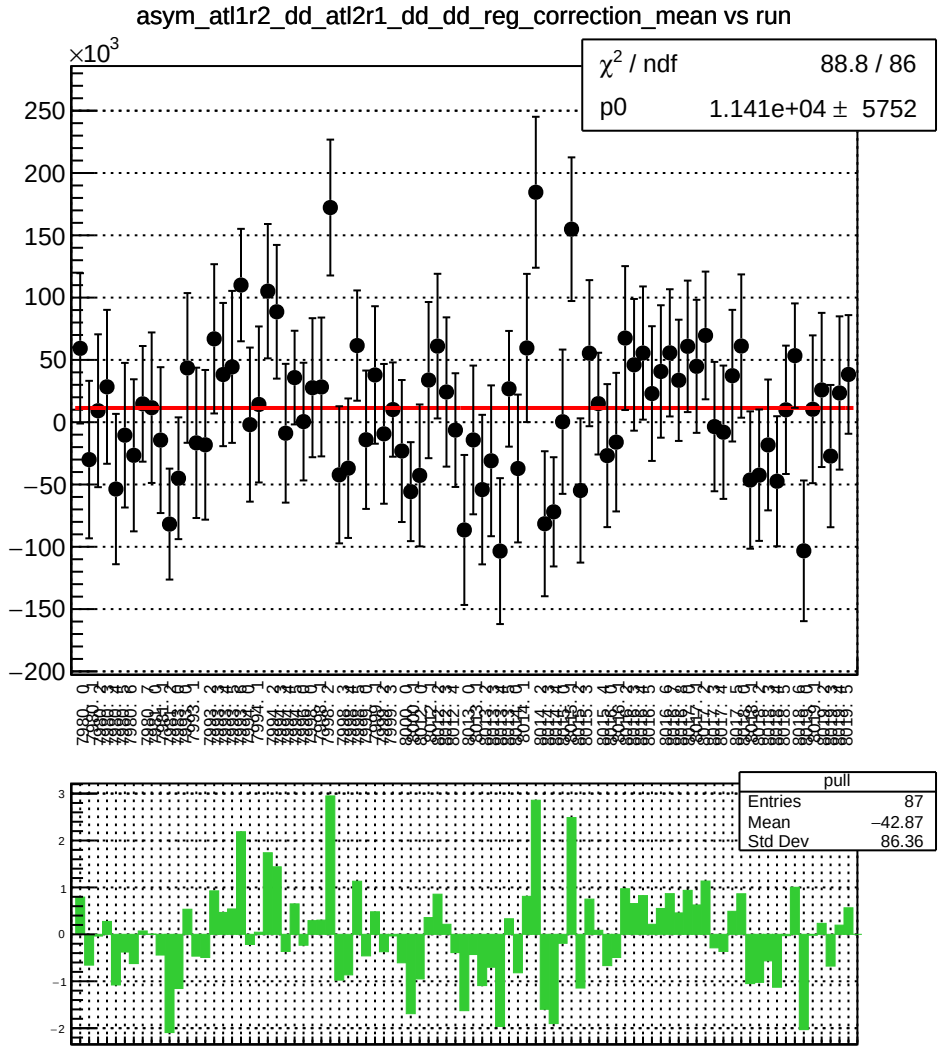

pull1D
Entries 87
Mean 0.09366
Std Dev 0.9674

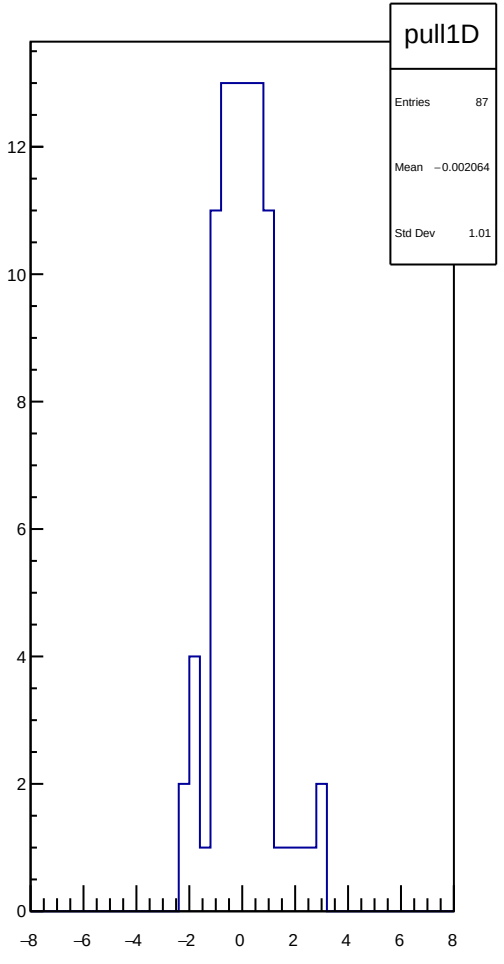

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.789e+05 / 86
p0 3.905e−10 ± 3.449e−13
2.5
2
1.5
1
0.5

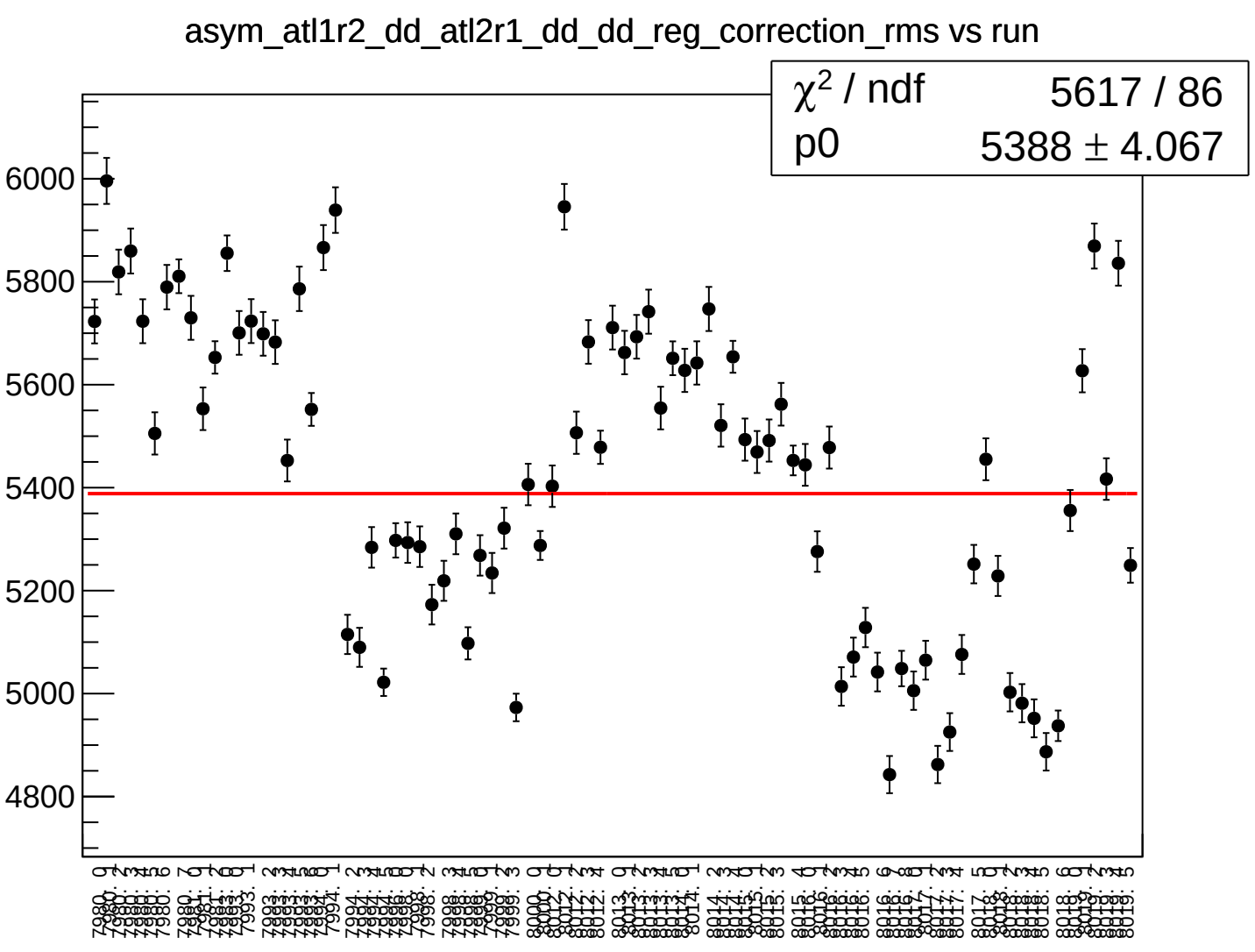

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.67 / 86
p0 −3315 ± 1353
pull
Entries 87
Mean 501.6
Std Dev 0

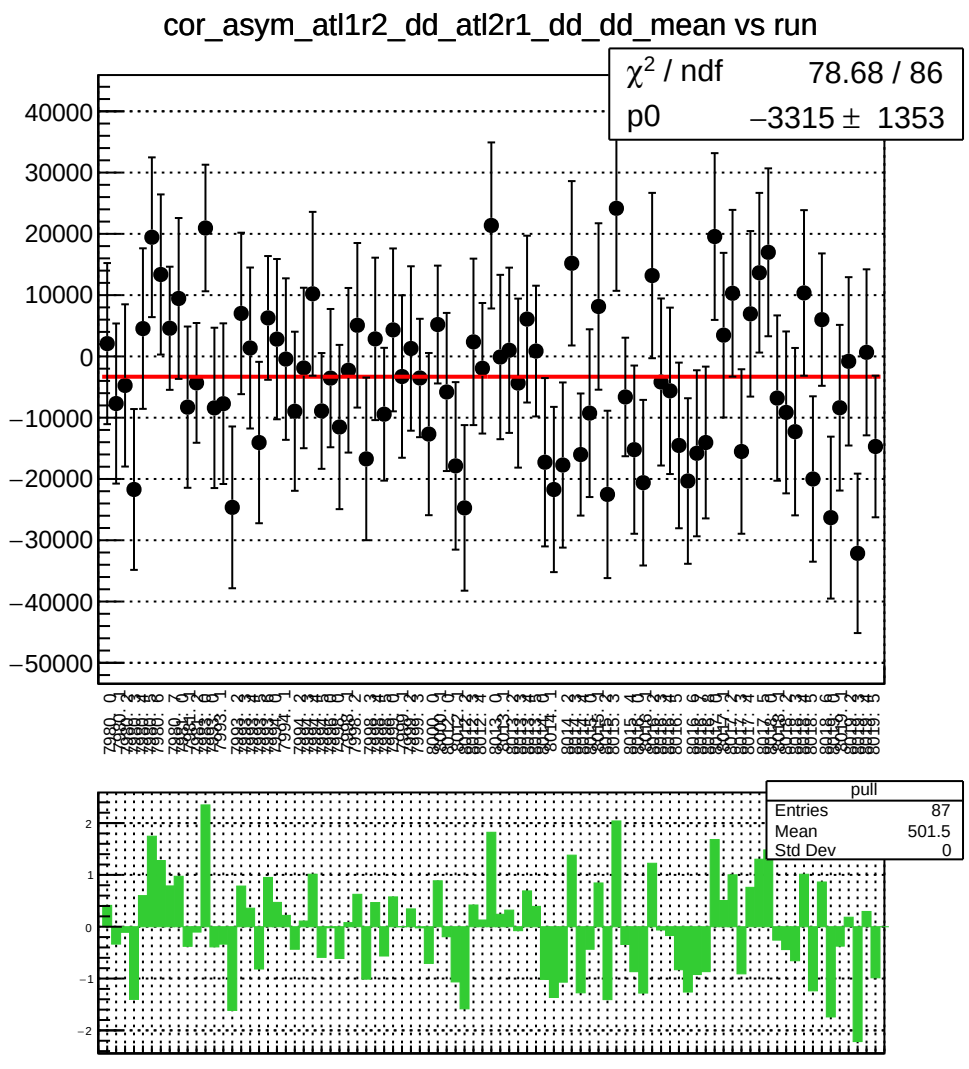

pull1D
Entries 87
Mean −0.008459
Std Dev 0.9509

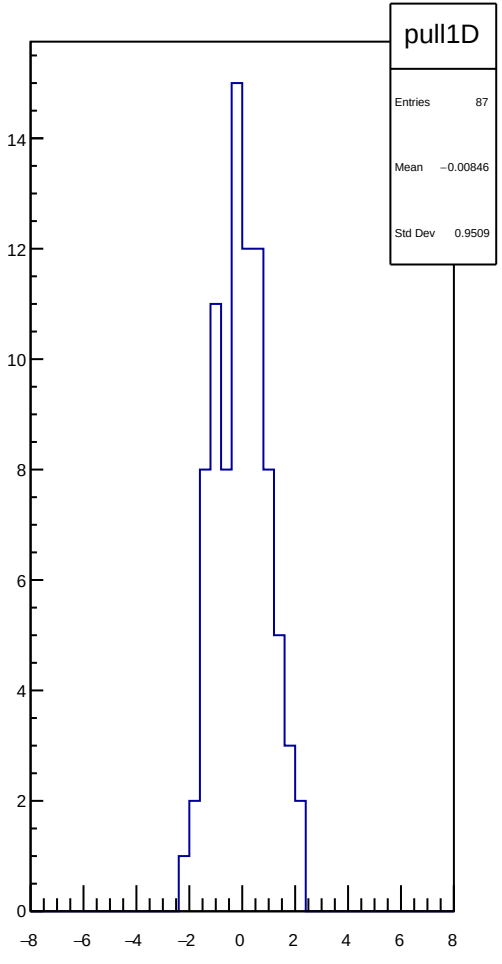

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 459.3 / 86
p0 1269 ± 0.9564
1320
1300
1280
1260
1240
1220

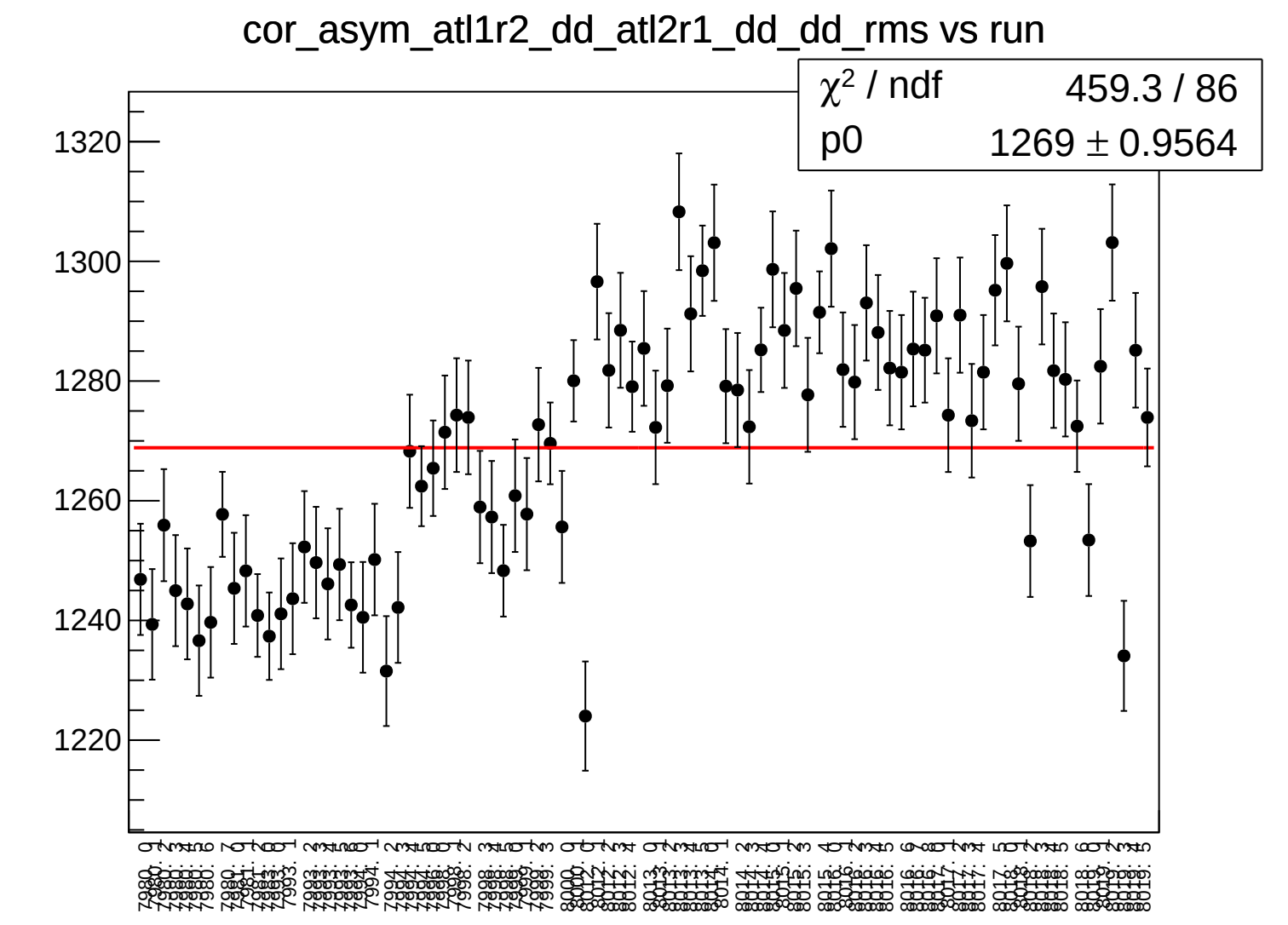

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.8 / 86
p0 1.141e+04 ± 5752
pull
Entries 87
Mean −42.87
Std Dev 86.36

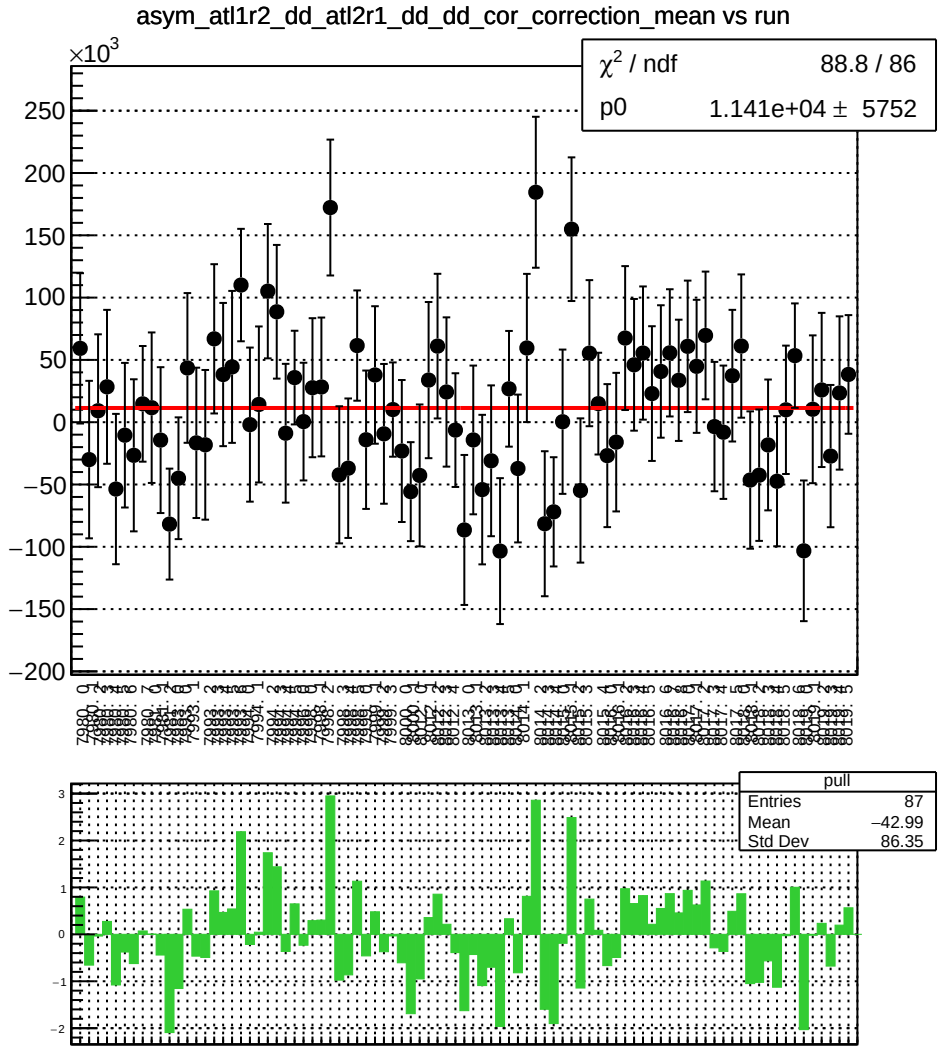

pull1D
Entries 87
Mean −0.002064
Std Dev 1.01

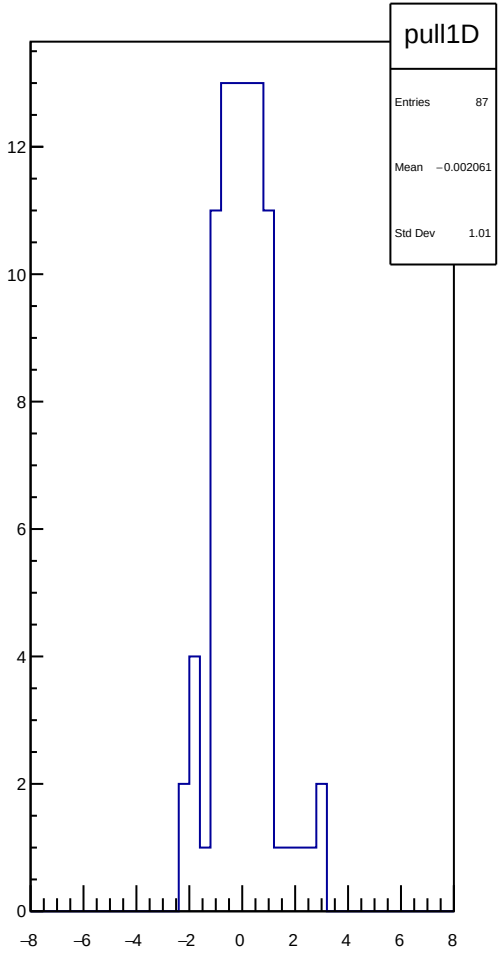

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 5617 / 86
p0 5388 ± 4.067
6000
5800
5600
5400
5200
5000
4800

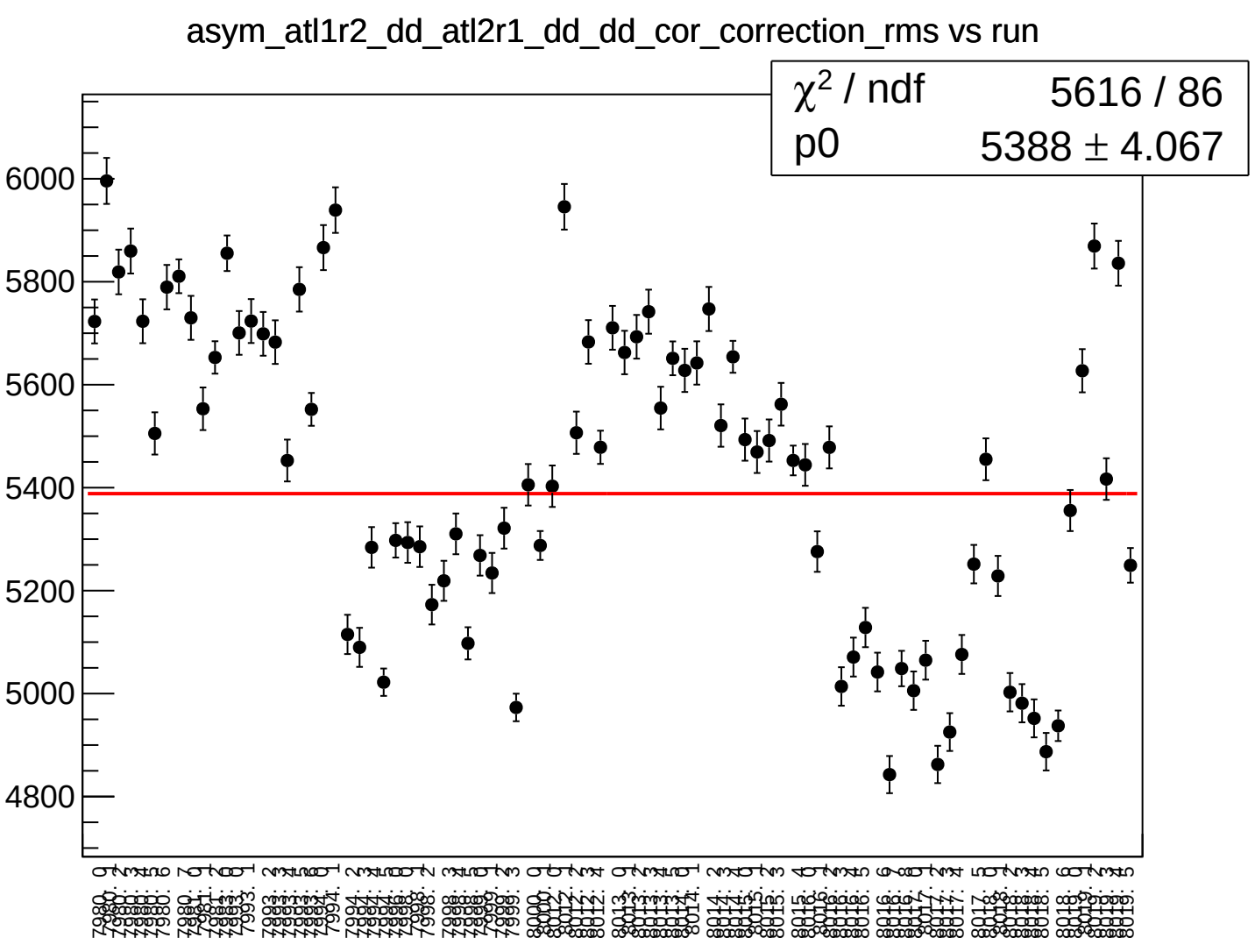

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.68 / 86
p0 −3315 ± 1353
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 87
Mean 501.5
Std Dev 0
2
1
0
−1
−2

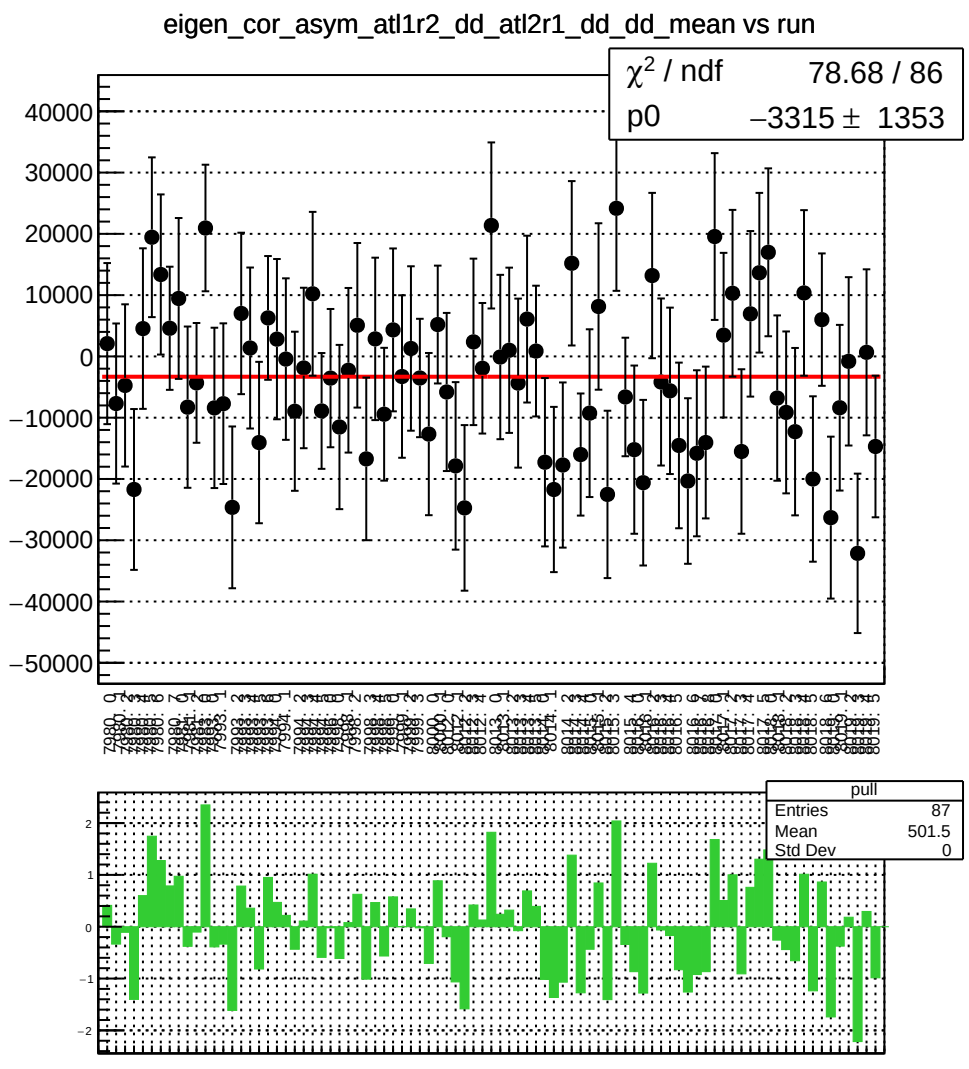

pull1D
Entries 87
Mean −0.00846
Std Dev 0.9509
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

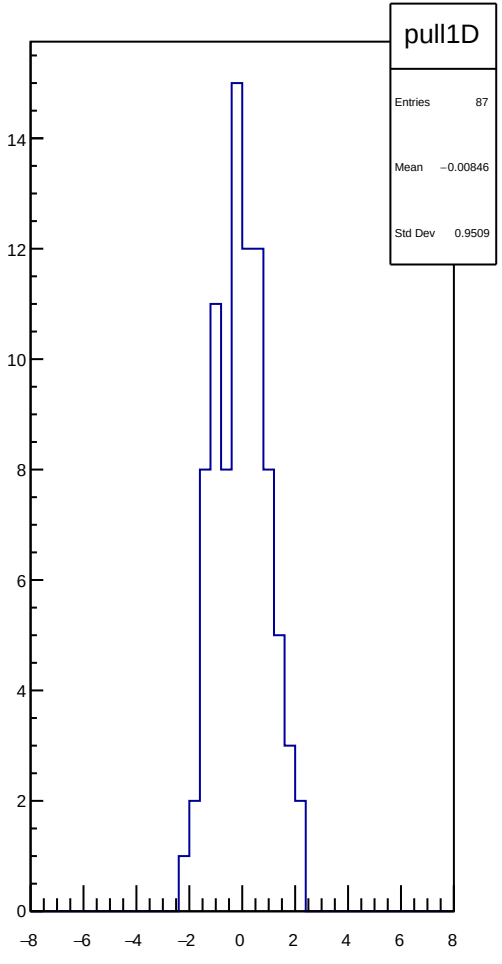

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 459.3 / 86
p0 1269 ± 0.9564
1320
1300
1280
1260
1240
1220

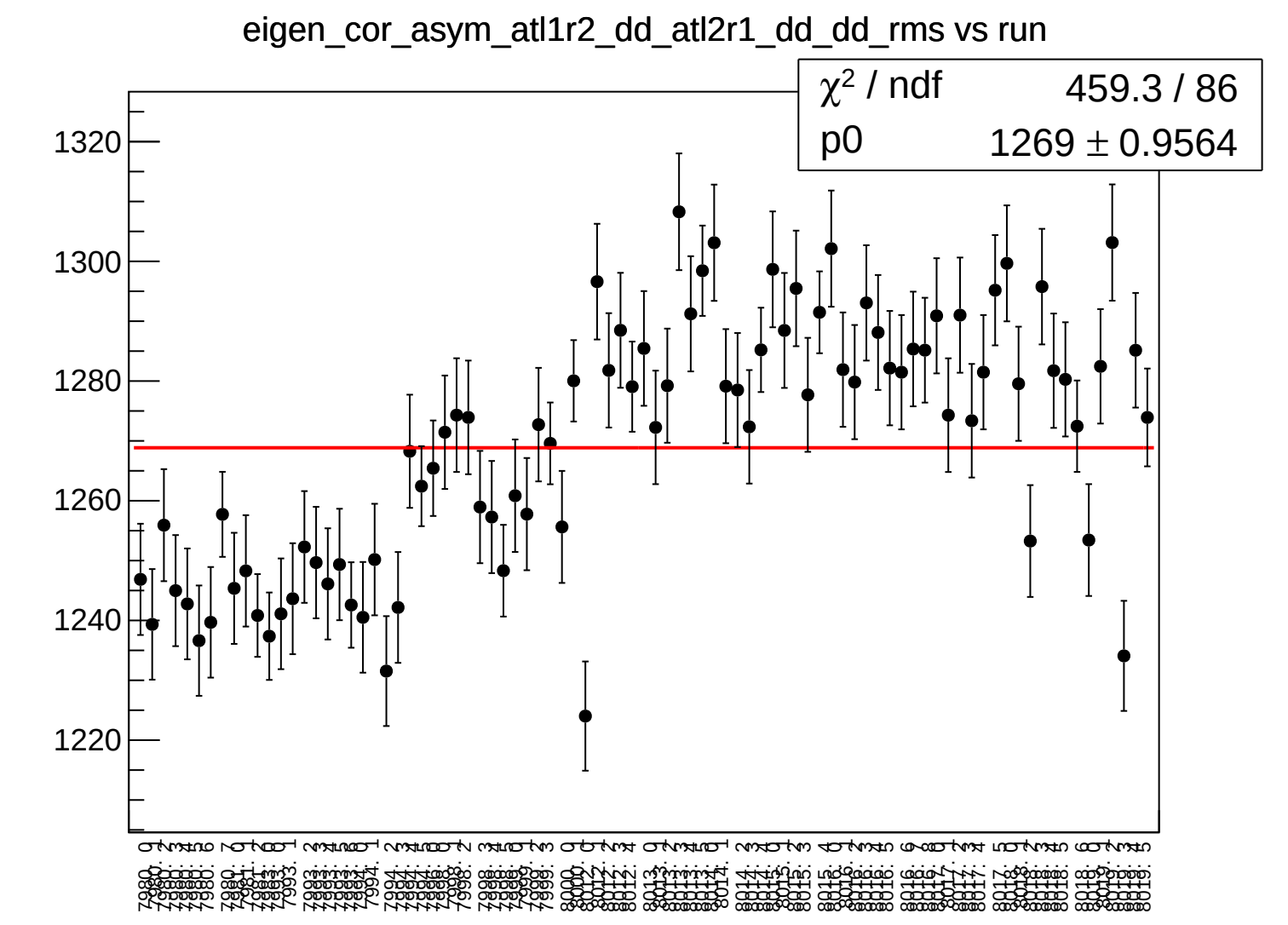

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.8 / 86
p0 1.141e+04 ± 5752
pull
Entries 87
Mean −42.99
Std Dev 86.35

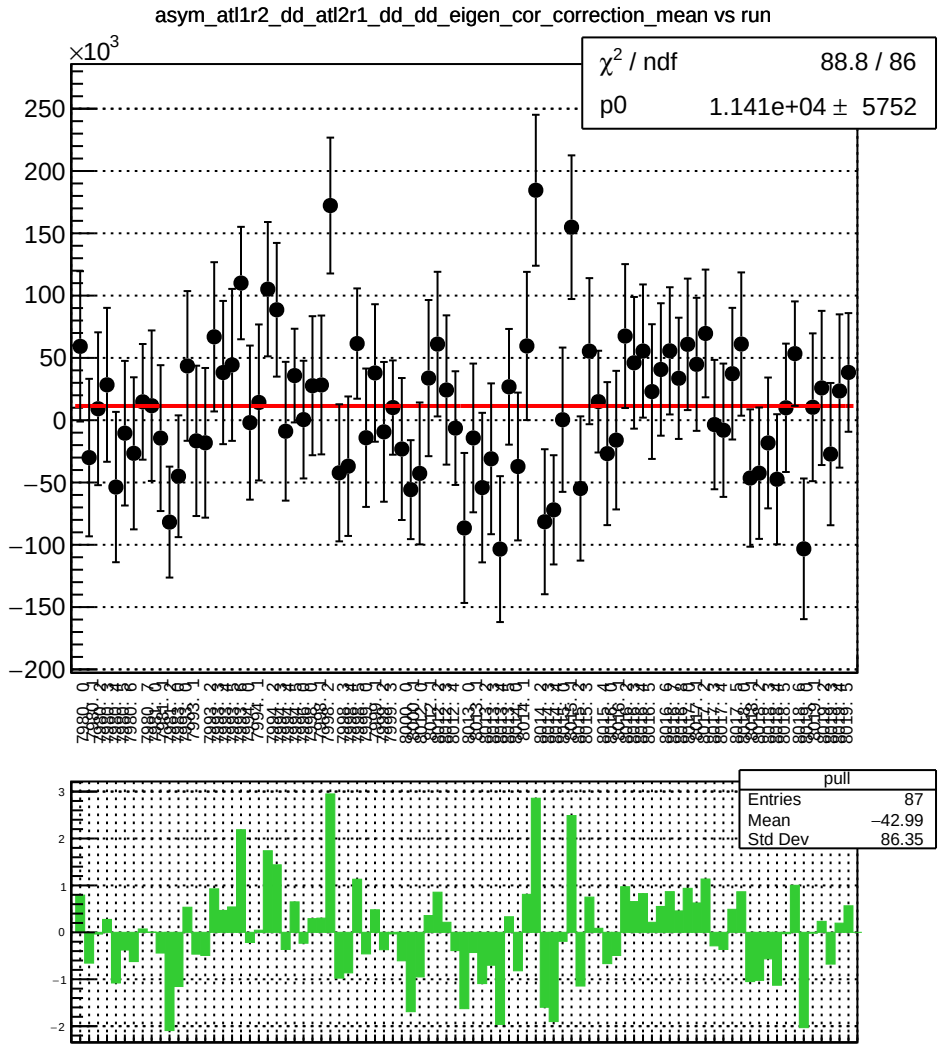

pull1D
Entries 87
Mean −0.002061
Std Dev 1.01

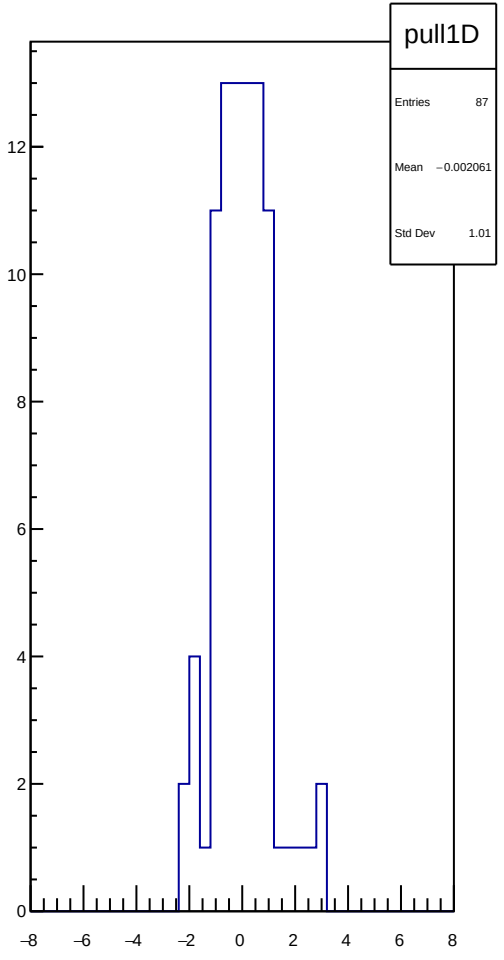

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 5616 / 86
p0 5388 ± 4.067
6000
5800
5600
5400
5200
5000
4800

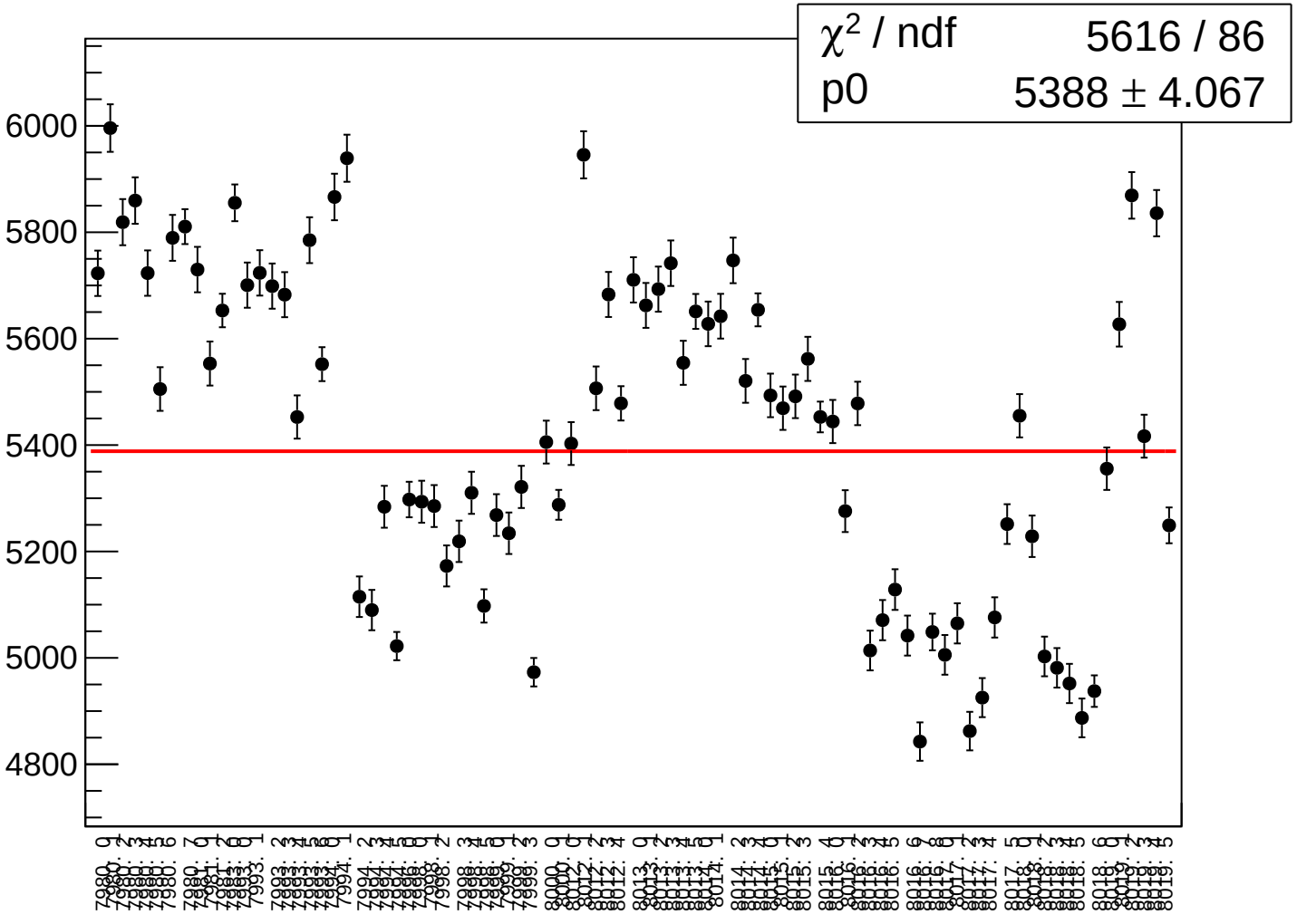

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.68 / 86
p0 −3315 ± 1353
pull
Entries 87
Mean 501.5
Std Dev 0

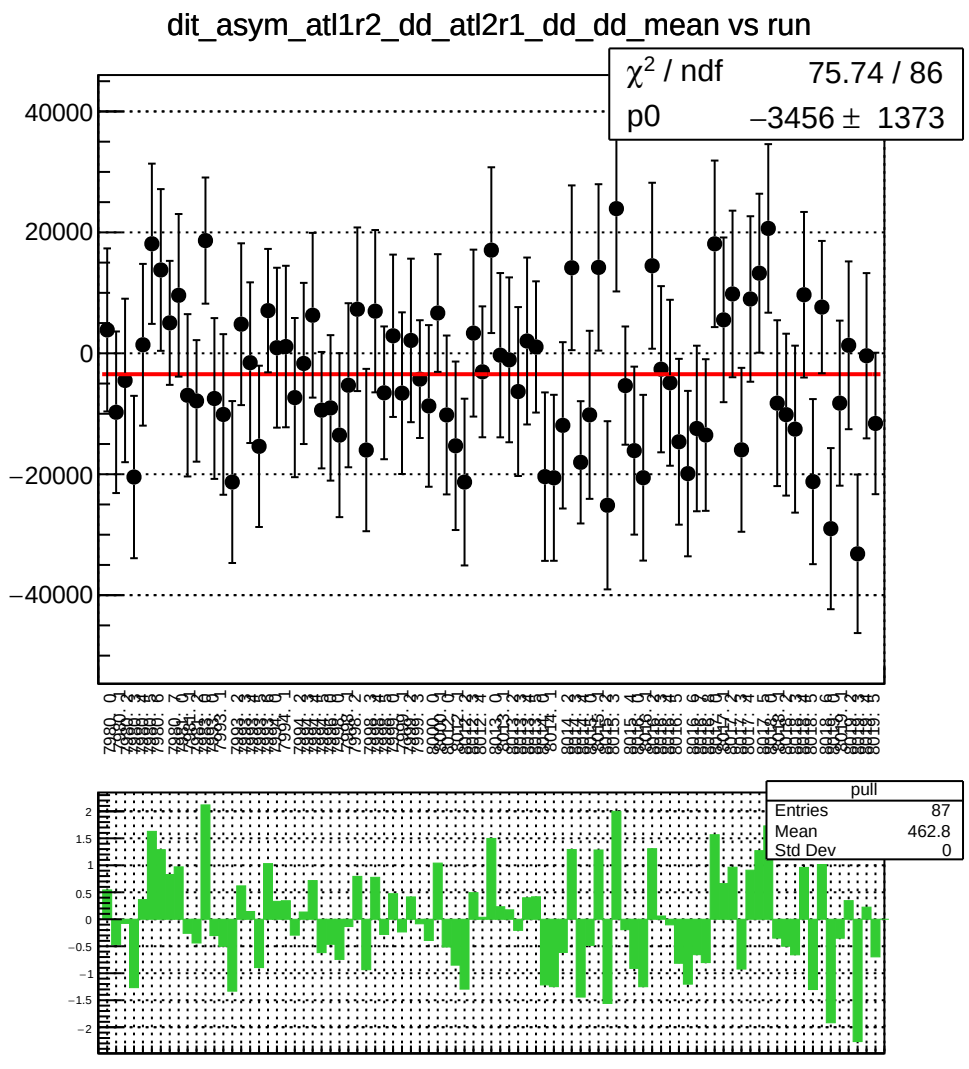

pull1D
Entries 87
Mean −0.00846
Std Dev 0.9509

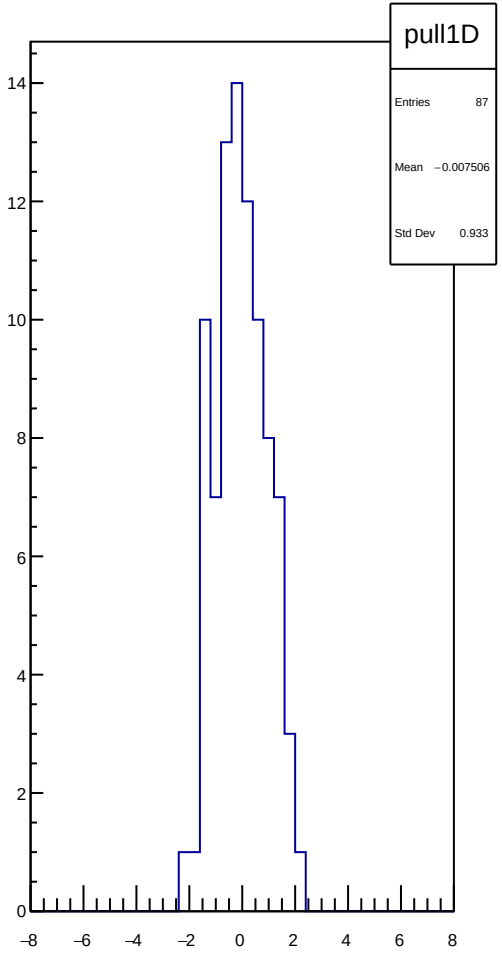

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 459.3 / 86
p0 1269 ± 0.9564
1320
1300
1280
1260
1240
1220

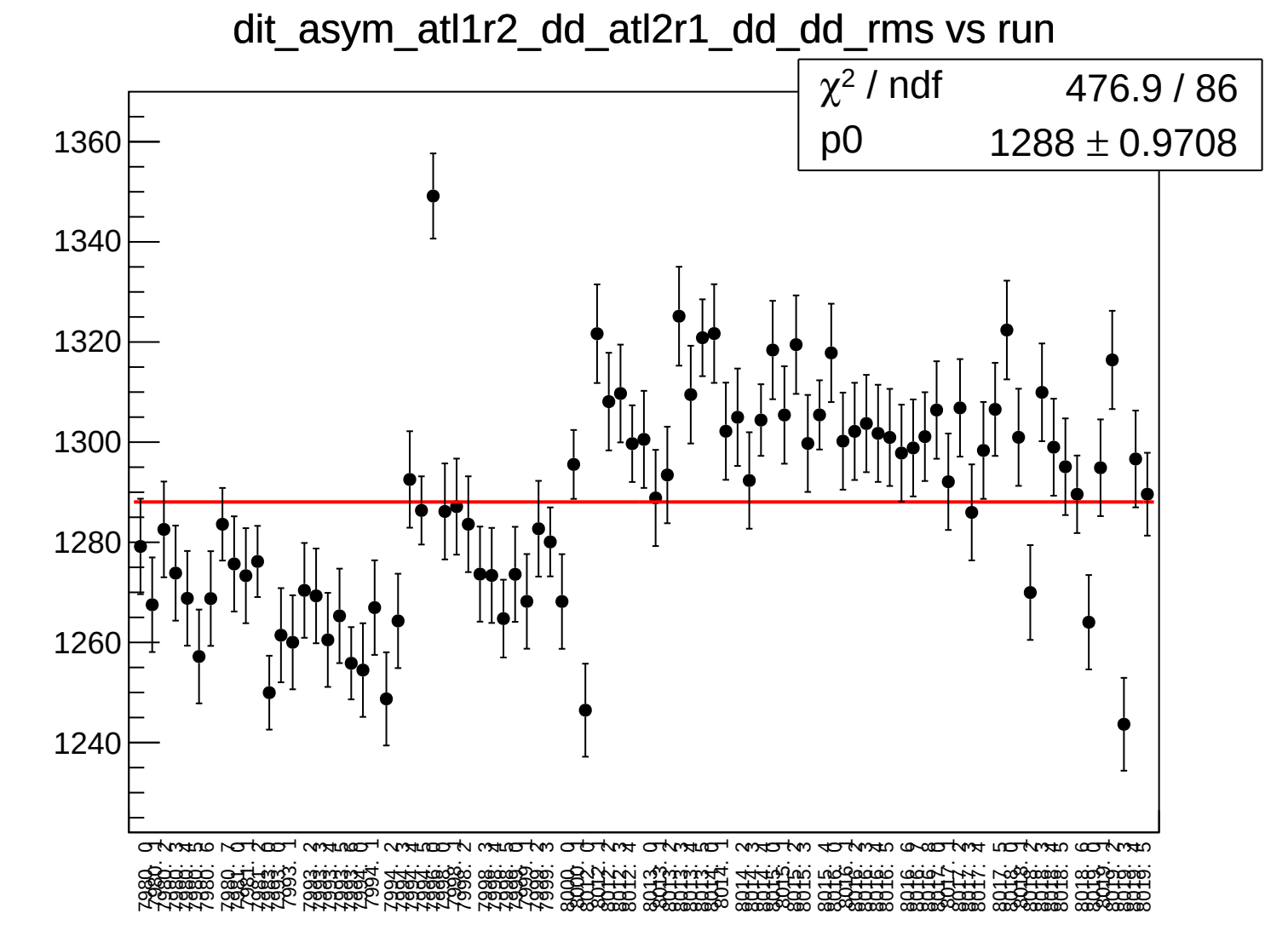

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.8 / 86
p0 1.141e+04 ± 5752
pull
Entries 87
Mean −42.99
Std Dev 86.35

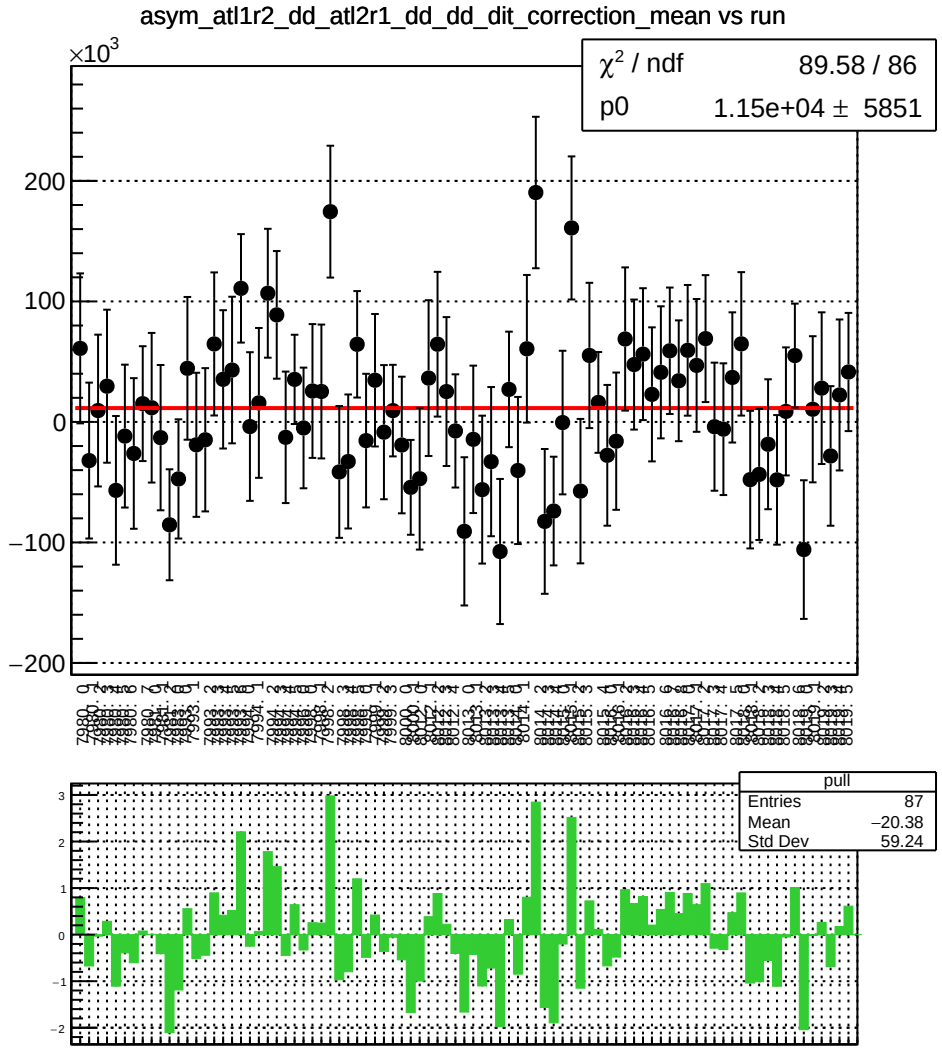

pull1D
Entries 87
Mean −0.002061
Std Dev 1.01

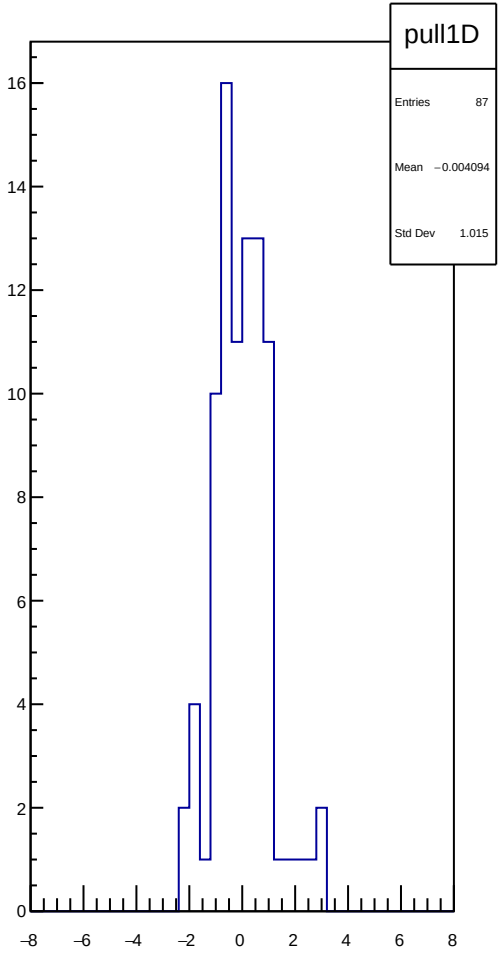

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5616 / 86
p0 5388 ± 4.067
6000
5800
5600
5400
5200
5000
4800

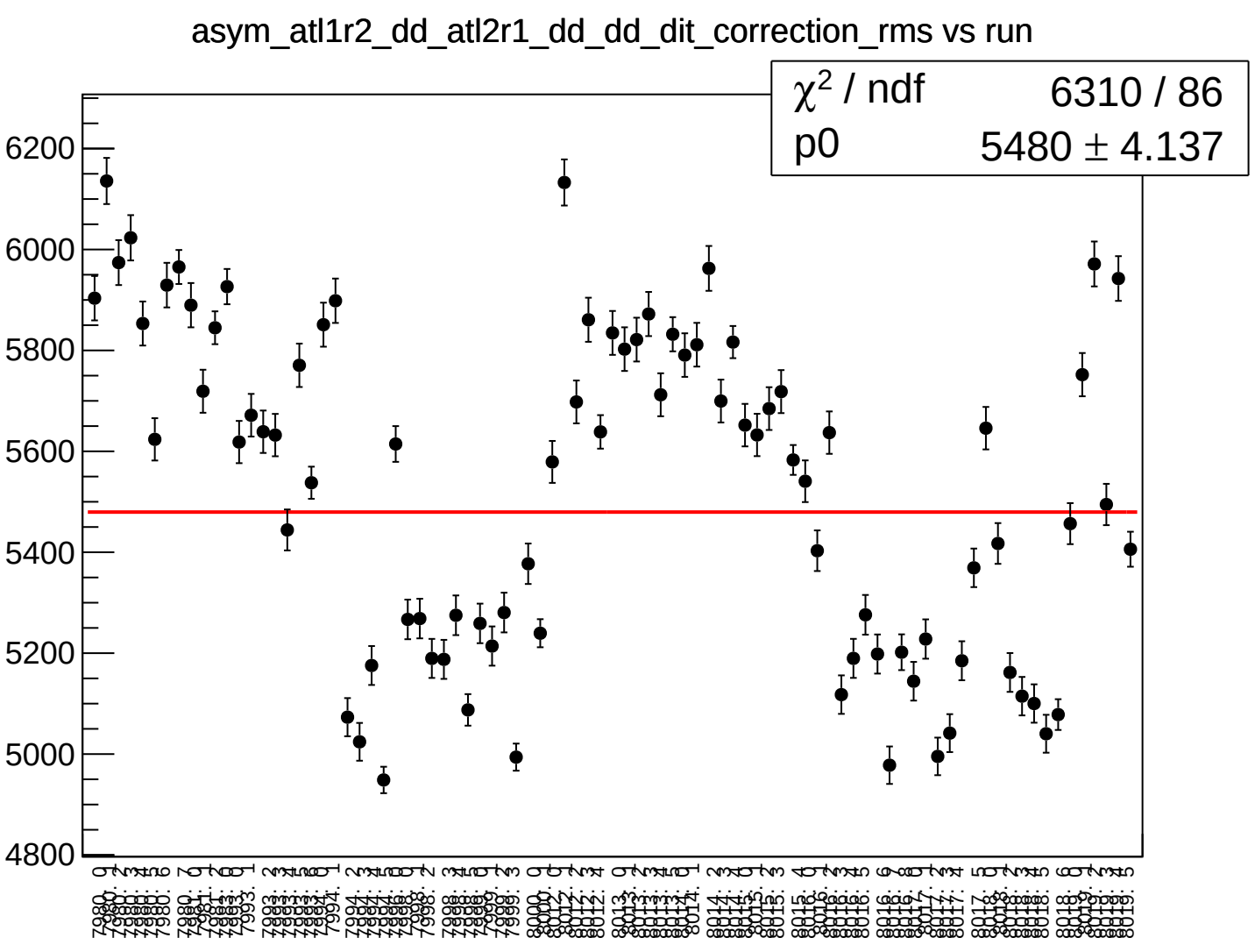

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 75.74 / 86
p0 −3456 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 462.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

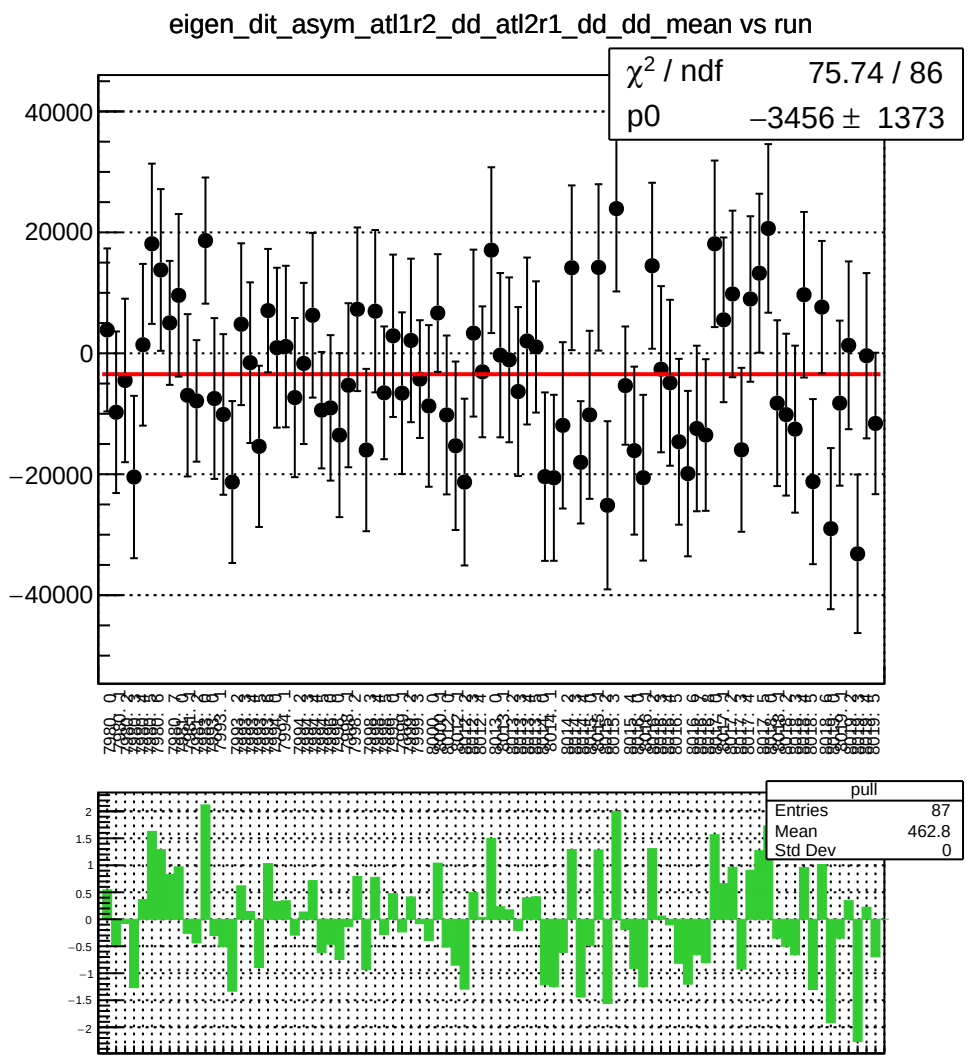

pull1D
Entries 87
Mean −0.007506
Std Dev 0.933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

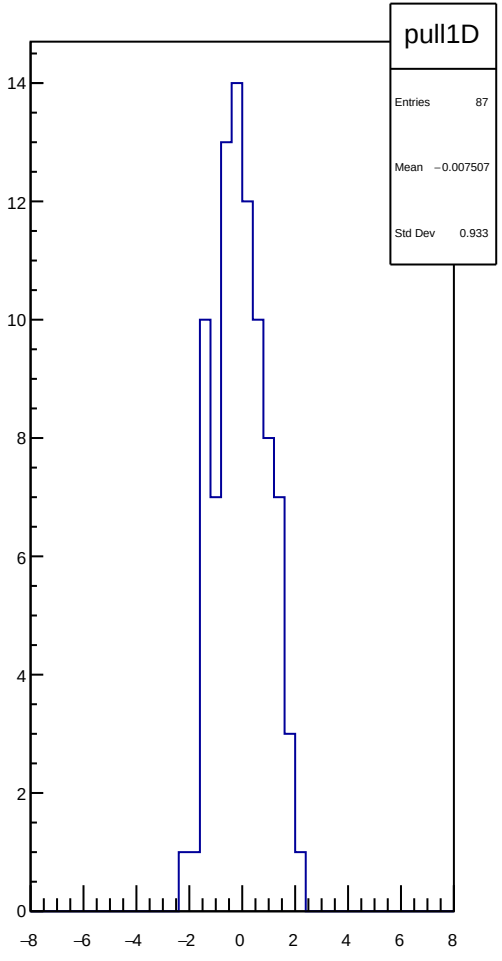

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 476.9 / 86
p0 1288 ± 0.9708
1360
1340
1320
1300
1280
1260
1240

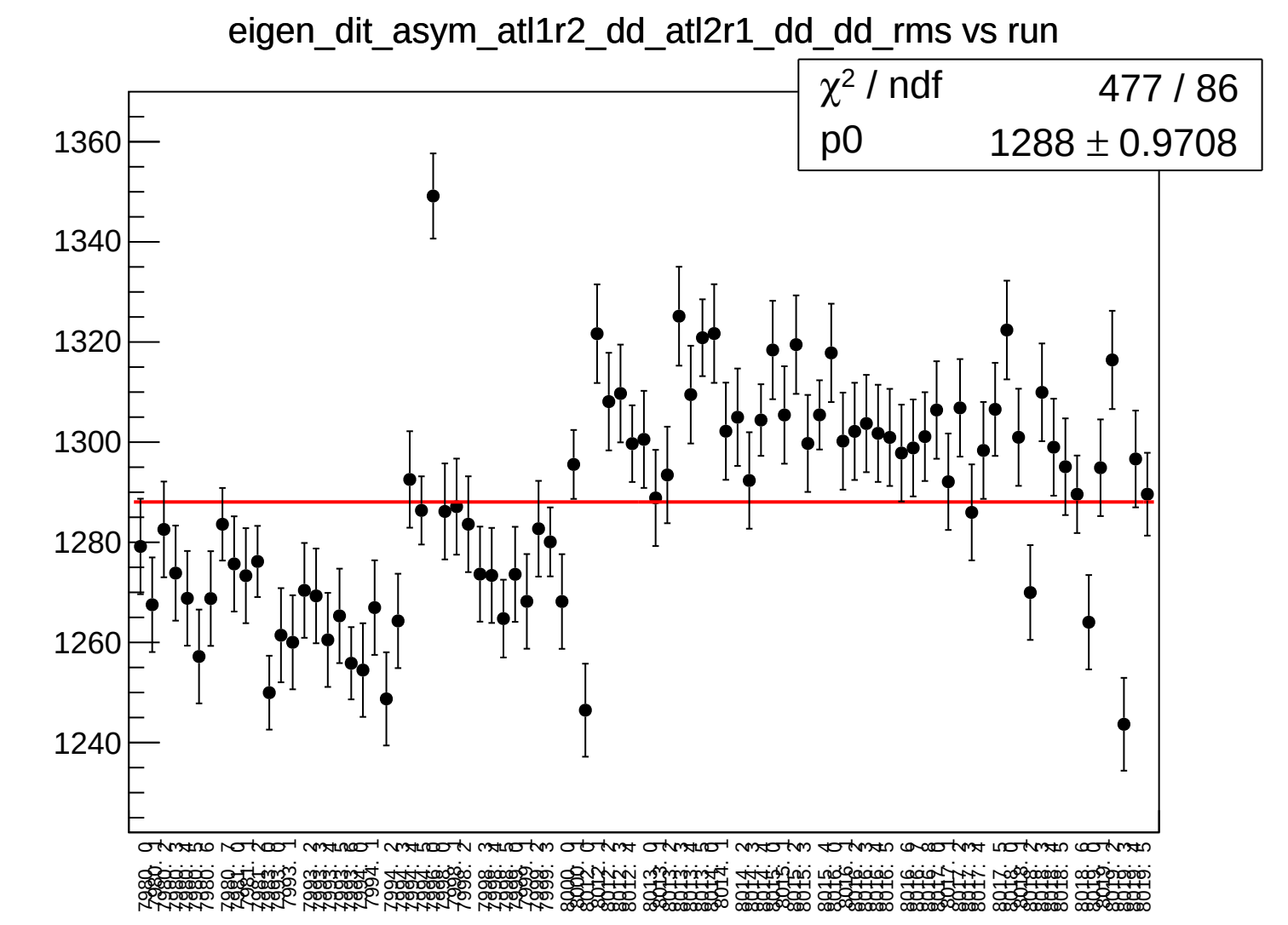

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 89.58 / 86
p0 1.15e+04 ± 5851
200
100
0
−100
−200
pull
Entries 87
Mean −20.38
Std Dev 59.24
3
2
1
0
−1
−2

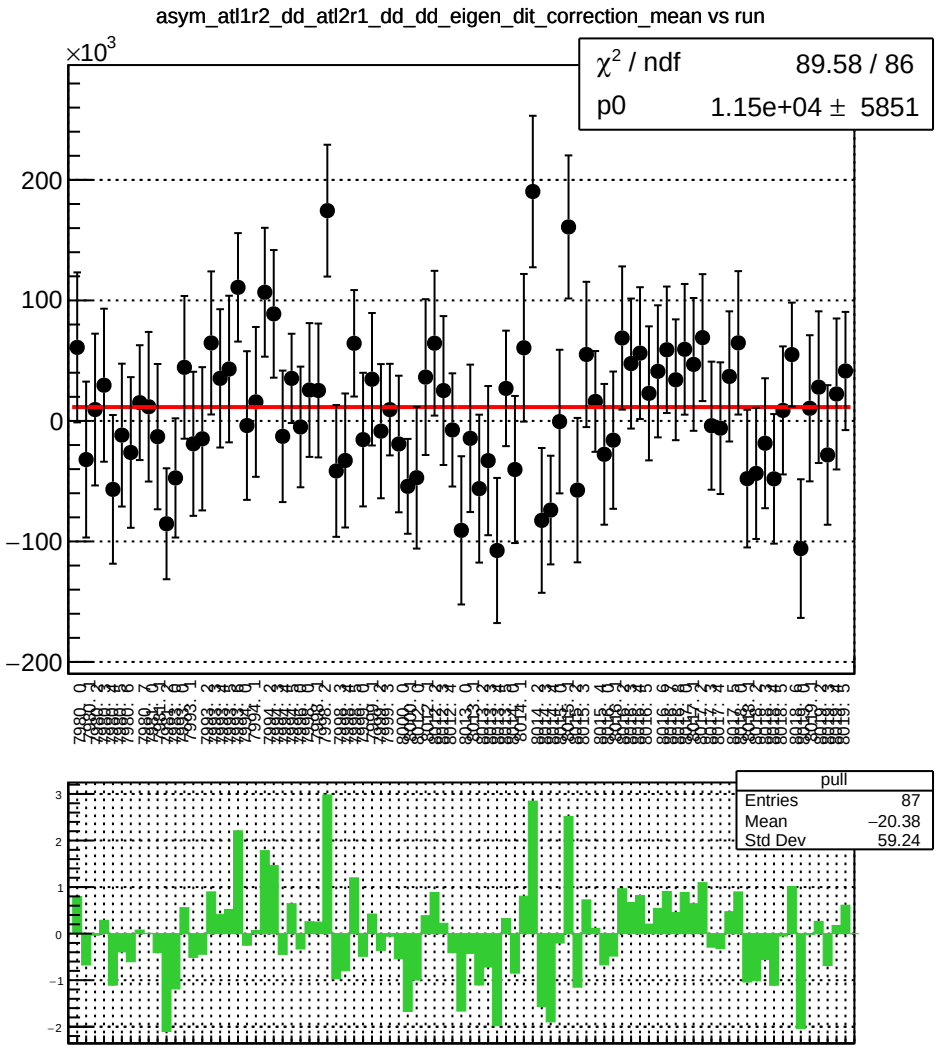

pull1D
Entries 87
Mean −0.004094
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

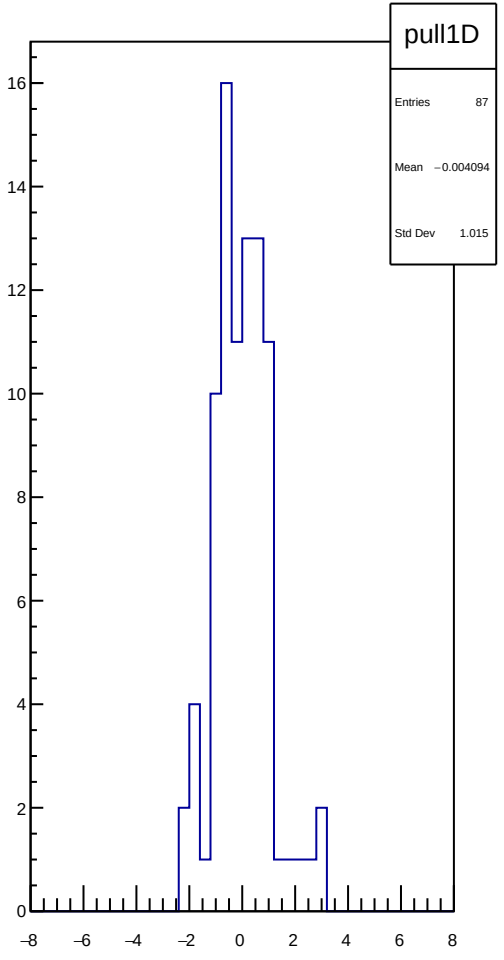

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 6310 / 86
p0 5480 ± 4.137
6200
6000
5800
5600
5400
5200
5000
4800

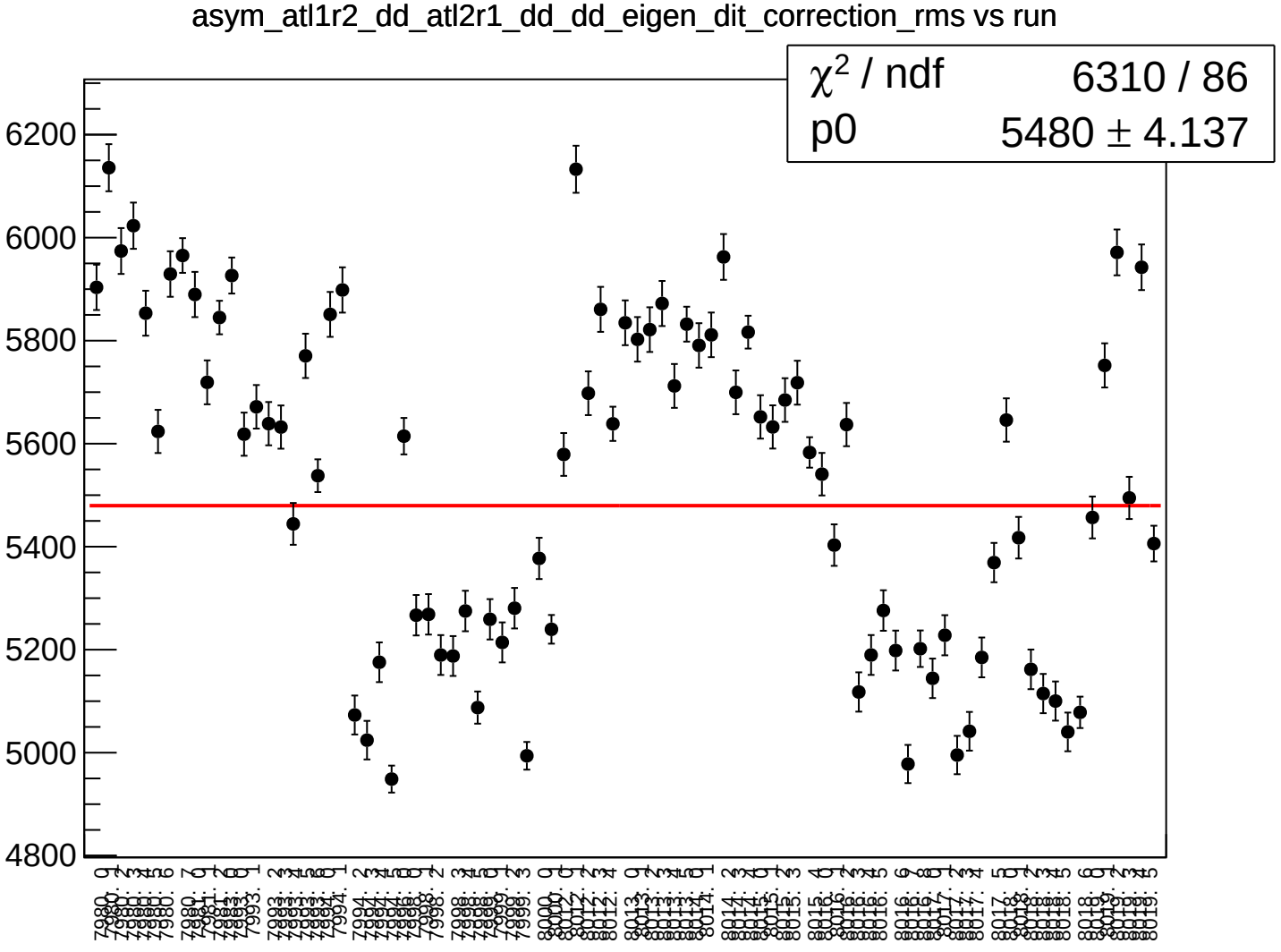

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 75.74 / 86
p0 −3456 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 462.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

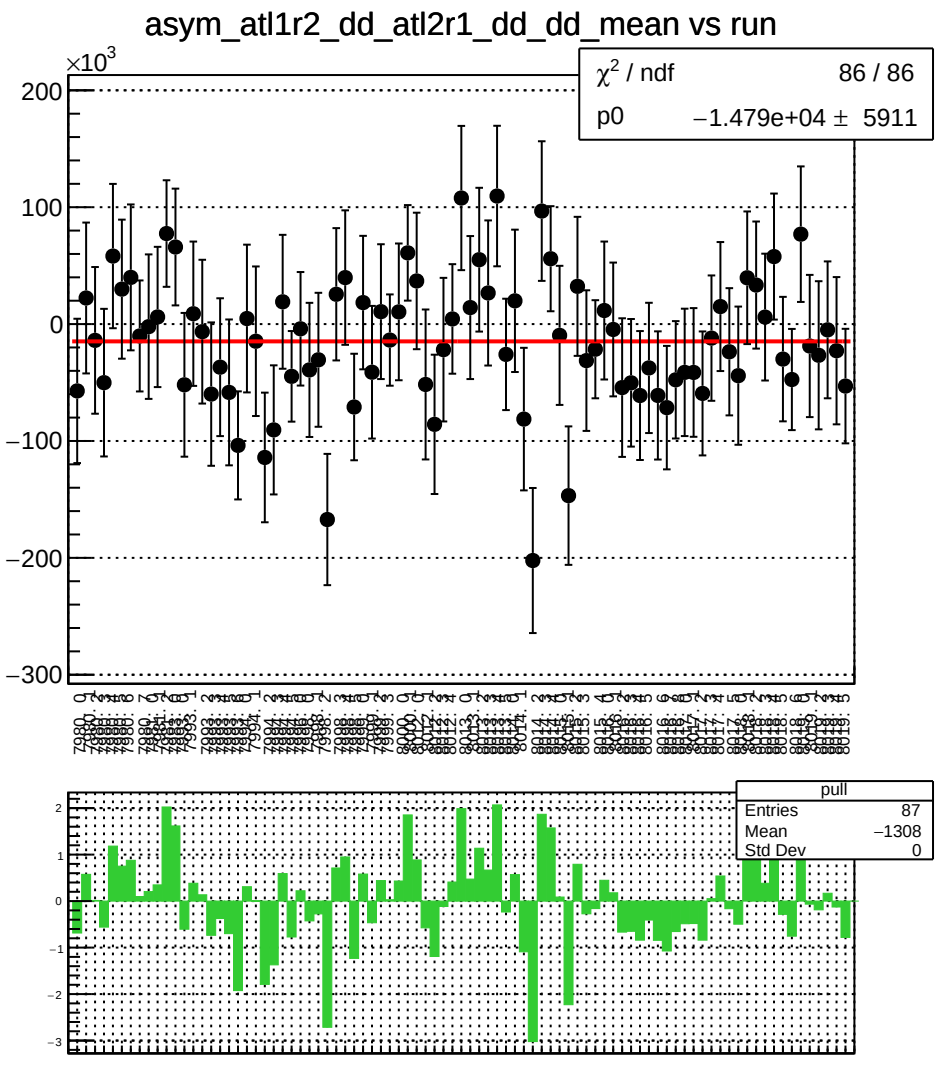

pull1D
Entries 87
Mean −0.007507
Std Dev 0.933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

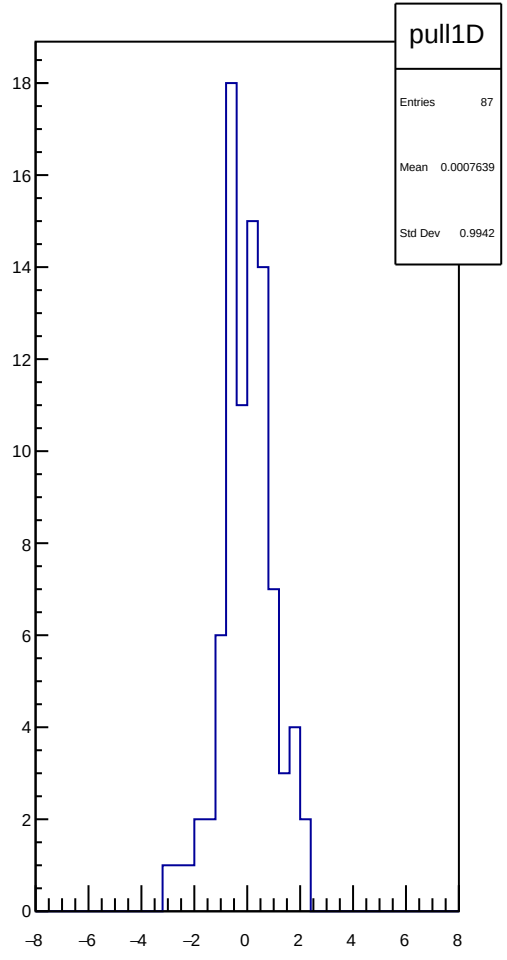

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 477 / 86
p0 1288 ± 0.9708
1360
1340
1320
1300
1280
1260
1240

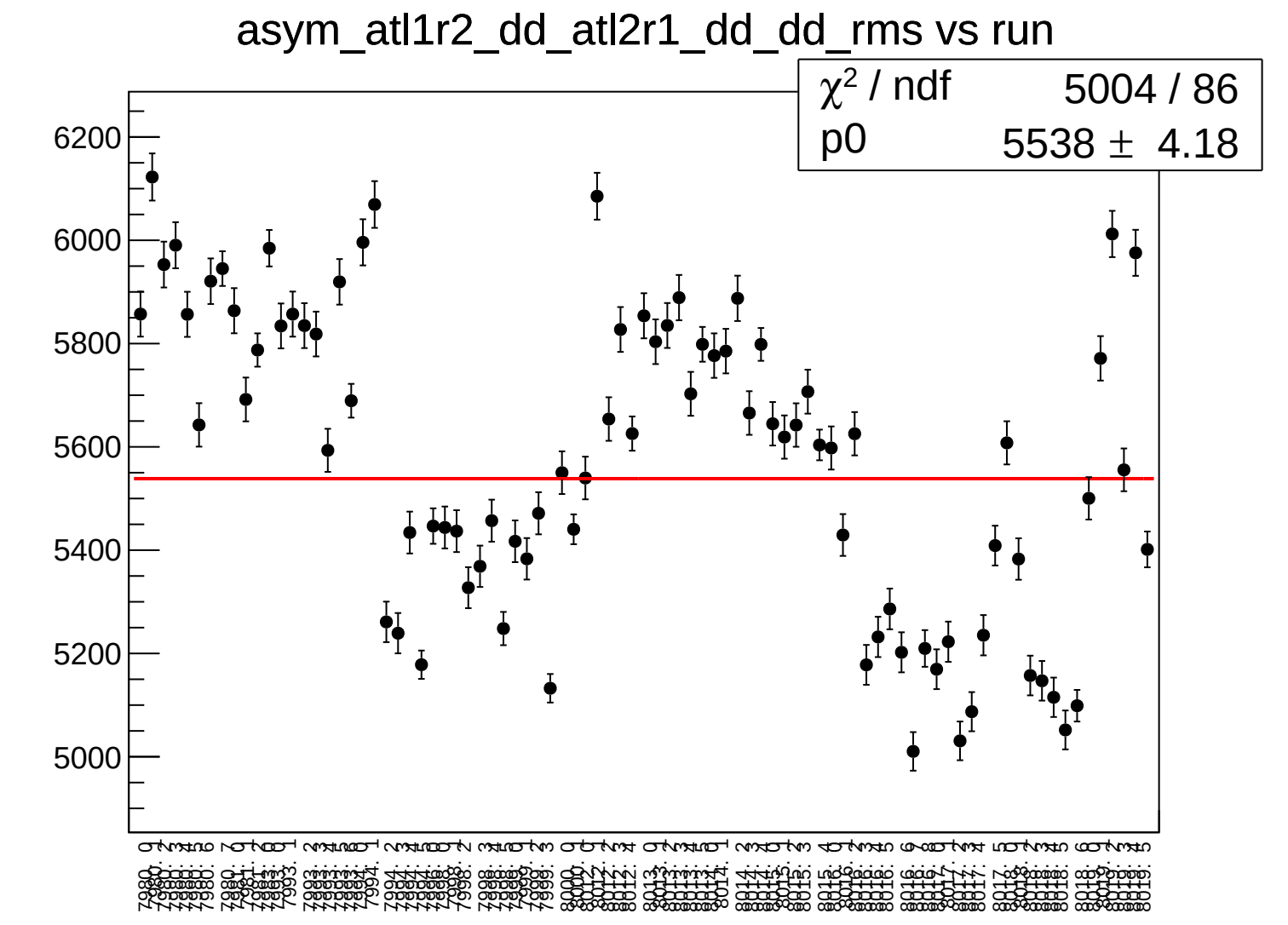

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.58 / 86
p0 1.15e+04 ± 5851
200
100
0
−100
−200
pull
Entries 87
Mean −20.38
Std Dev 59.24
3
2
1
0
−1
−2

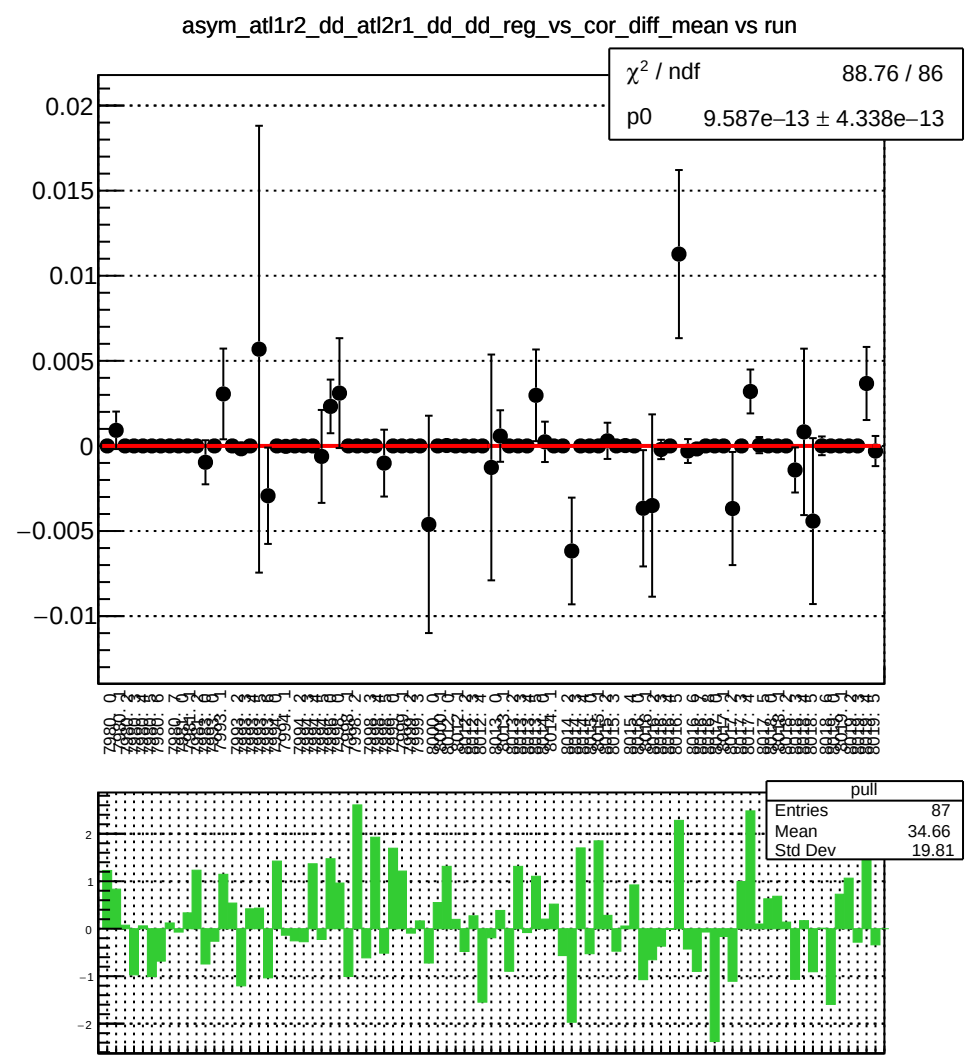

pull1D
Entries 87
Mean −0.004094
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

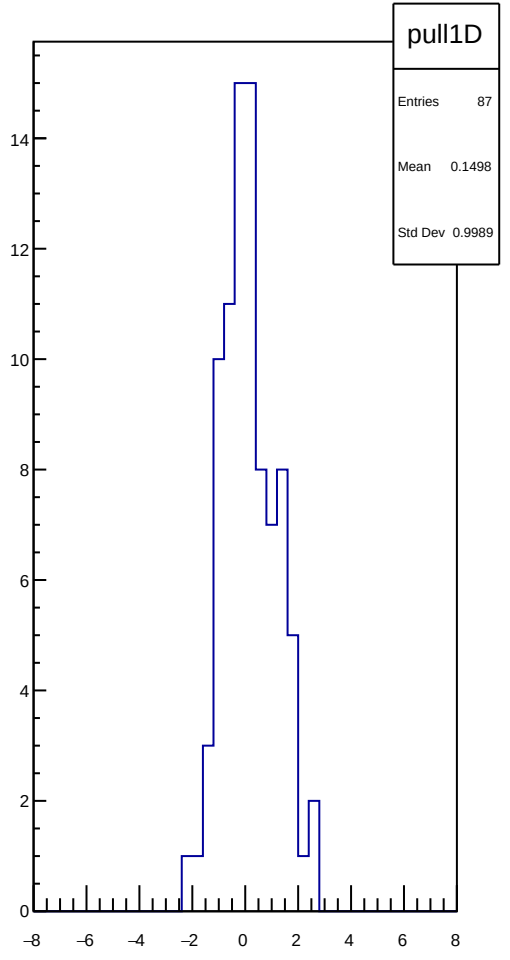

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6310 / 86
p0 5480 ± 4.137
6200
6000
5800
5600
5400
5200
5000
4800

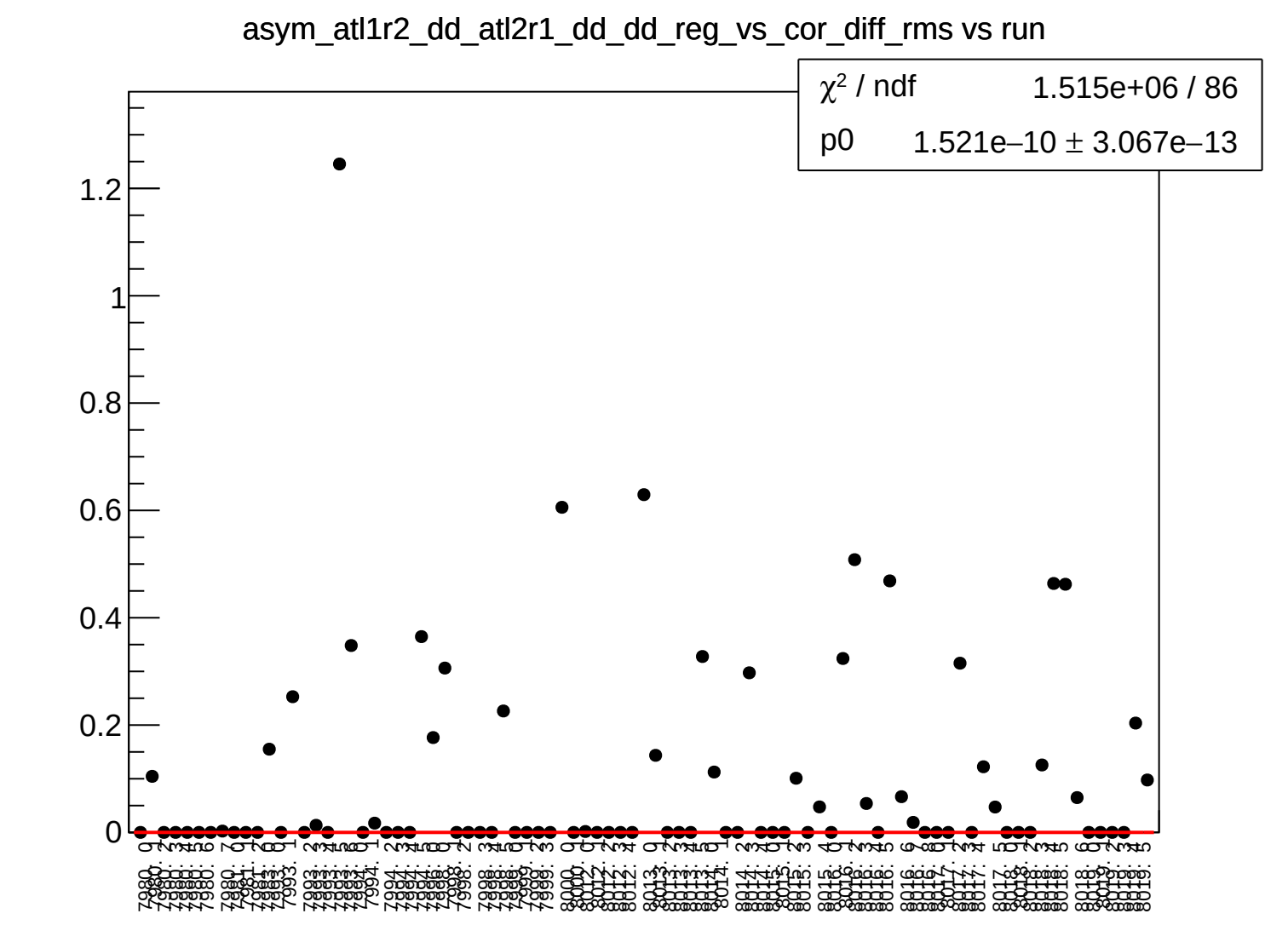

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 86 / 86
p0 −1.479e+04 ± 5911
200
100
0
−100
−200
−300
pull
Entries 87
Mean −1308
Std Dev 0
2
1
0
−1
−2
−3

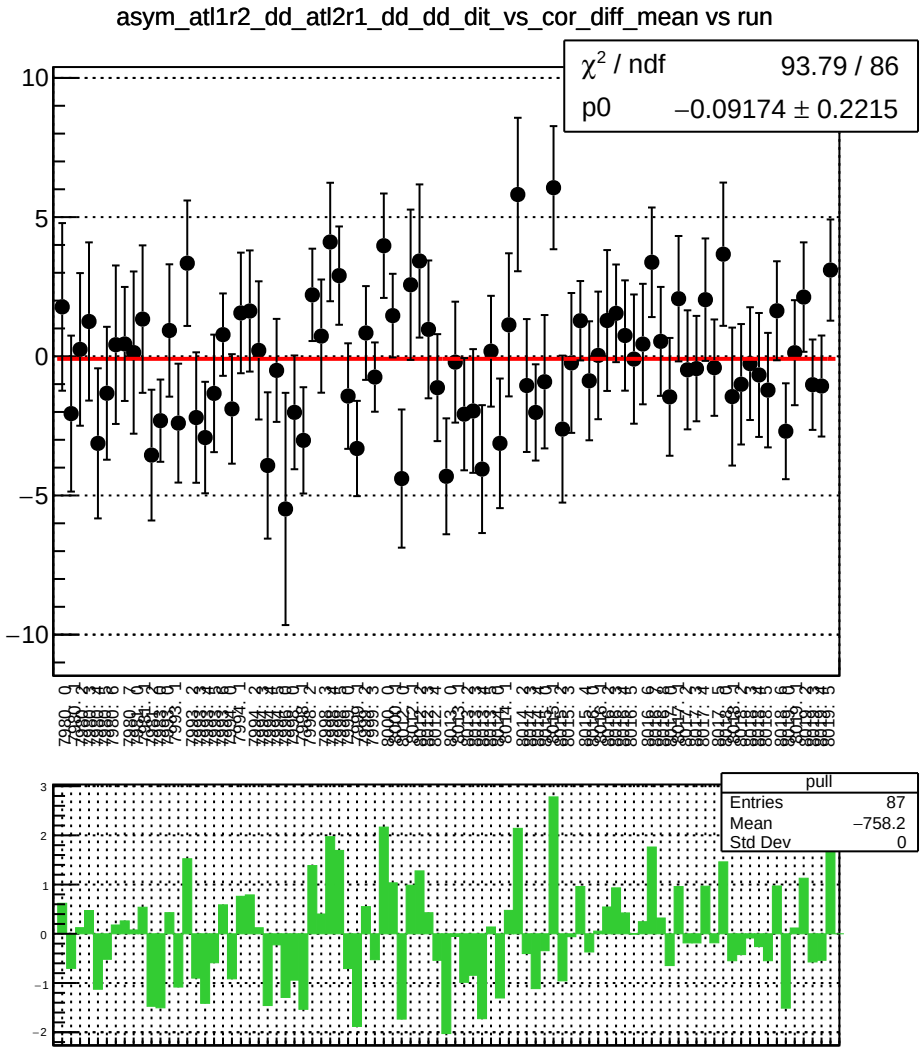

pull1D
Entries 87
Mean 0.0007639
Std Dev 0.9942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

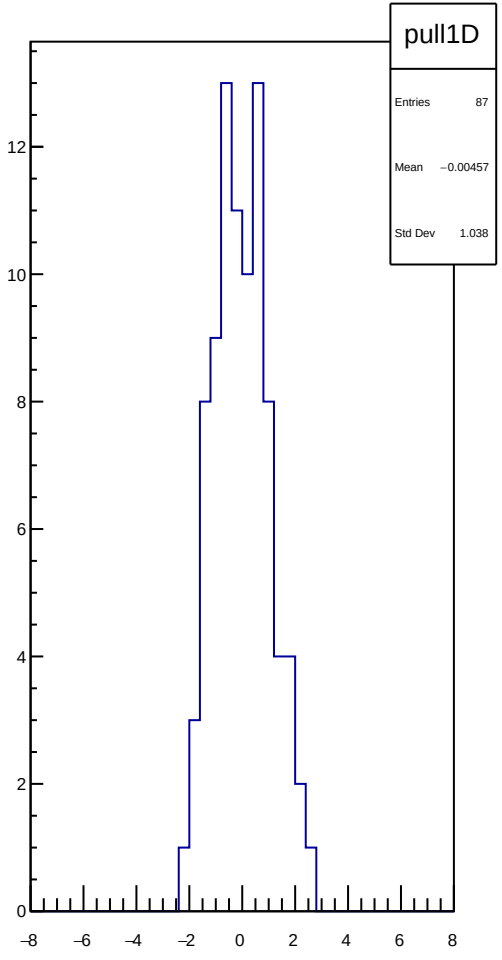

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 5004 / 86
p0 5538 ± 4.18
6200
6000
5800
5600
5400
5200
5000

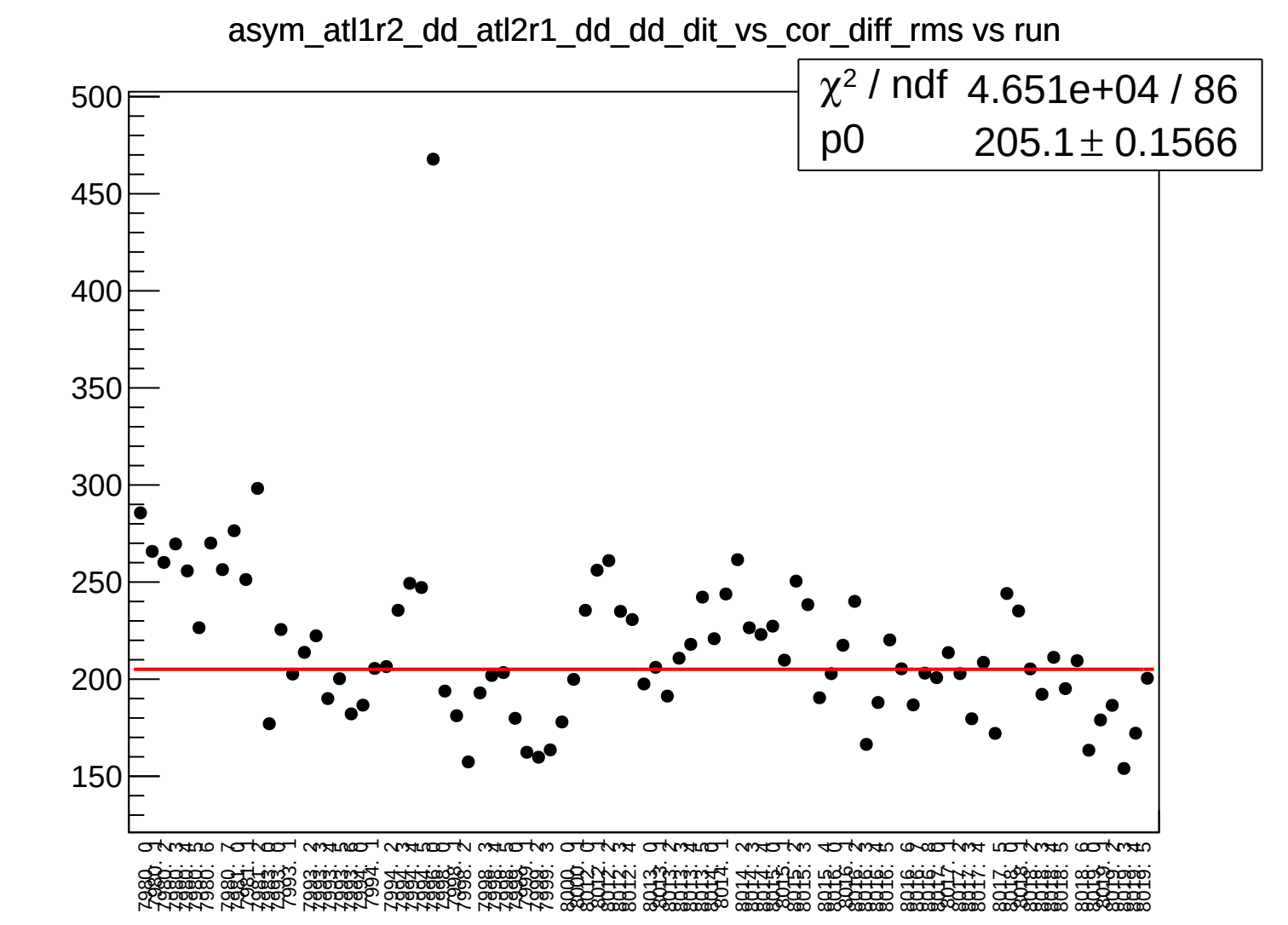

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.76 / 86
p0 9.587e−13 ± 4.338e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 34.66
Std Dev 19.81
2
1
0
−1
−2

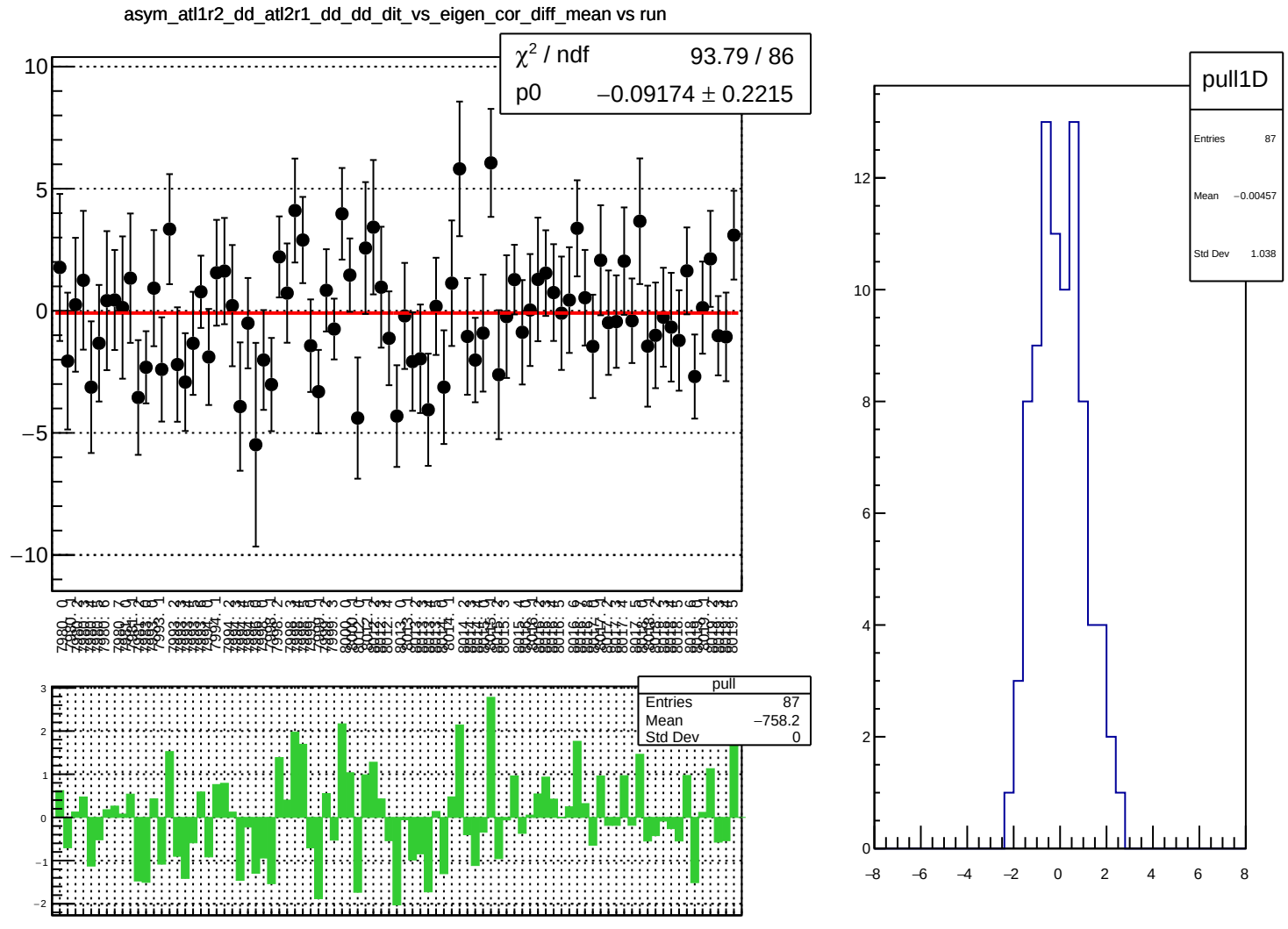

pull1D
Entries 87
Mean 0.1498
Std Dev 0.9989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

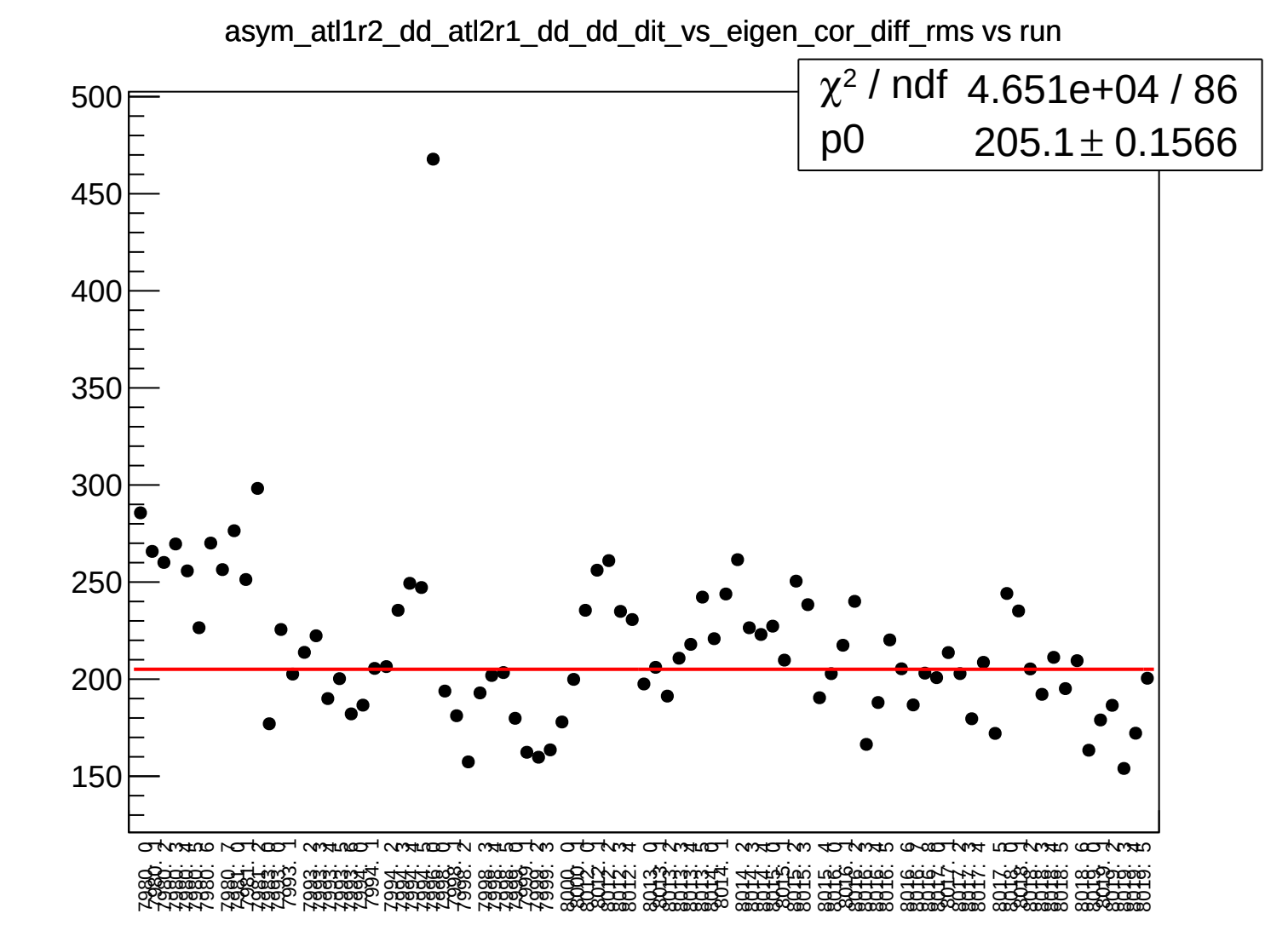

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.515e+06 / 86
p0 1.521e−10 ± 3.067e−13
1.2
1
0.8
0.6
0.4
0.2
0

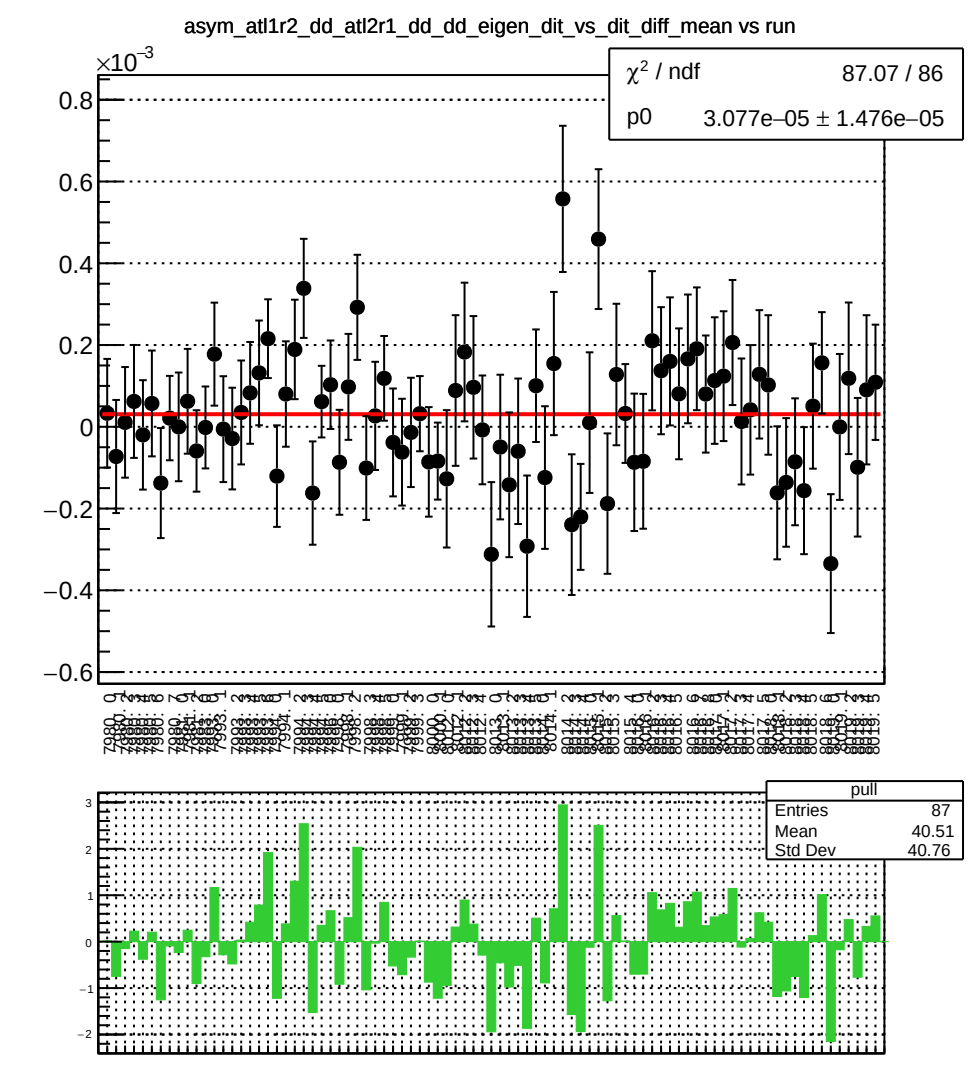

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.79 / 86
p0 −0.09174 ± 0.2215
pull
Entries 87
Mean −758.2
Std Dev 0

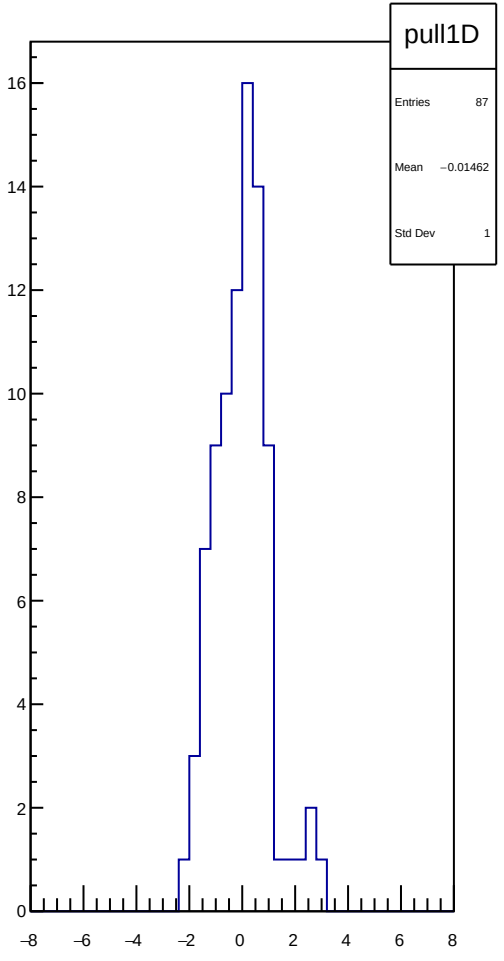

pull1D
Entries 87
Mean −0.00457
Std Dev 1.038

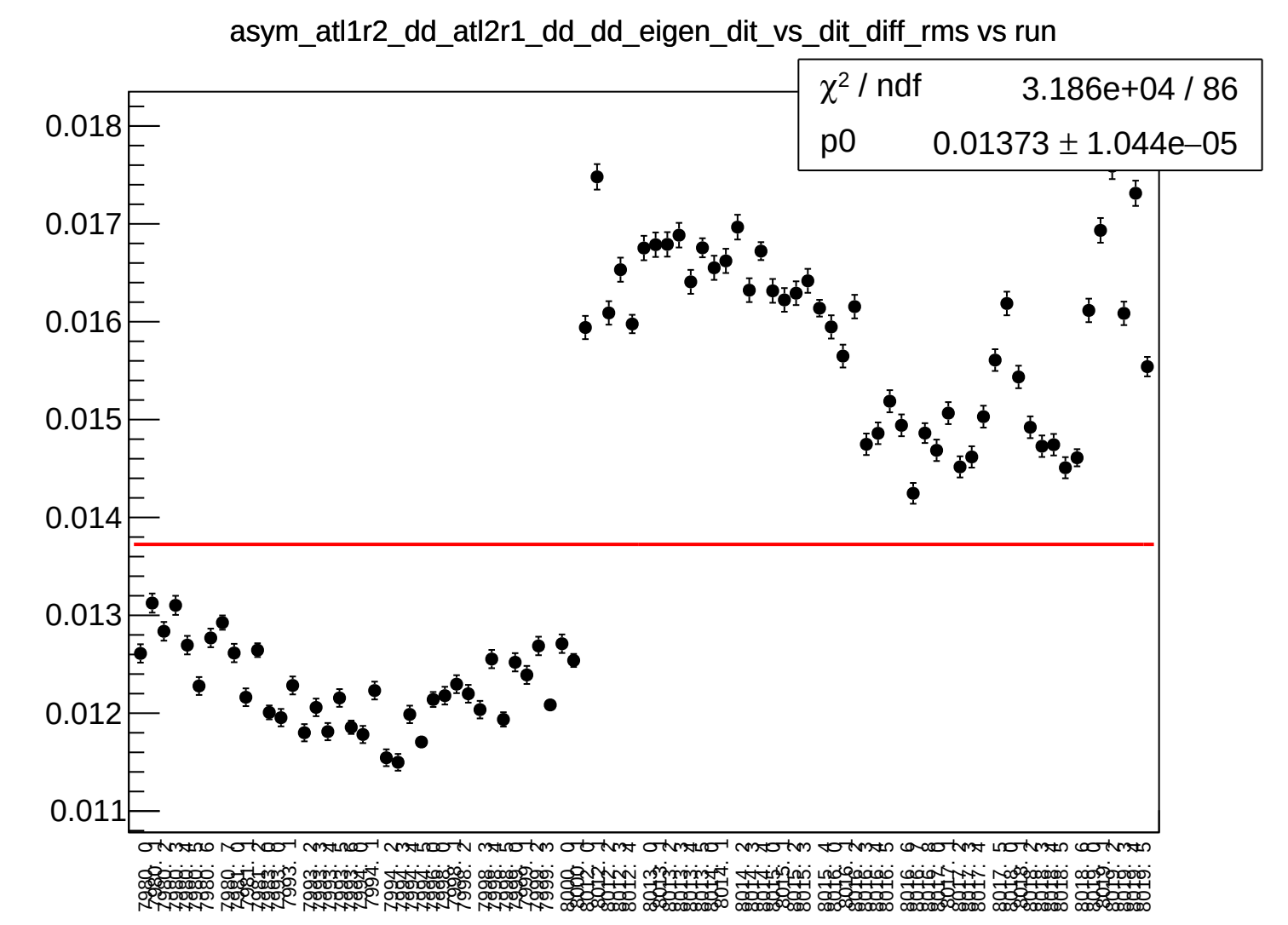

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.651e+04 / 86
p0 205.1 ± 0.1566
500
450
400
350
300
250
200
150

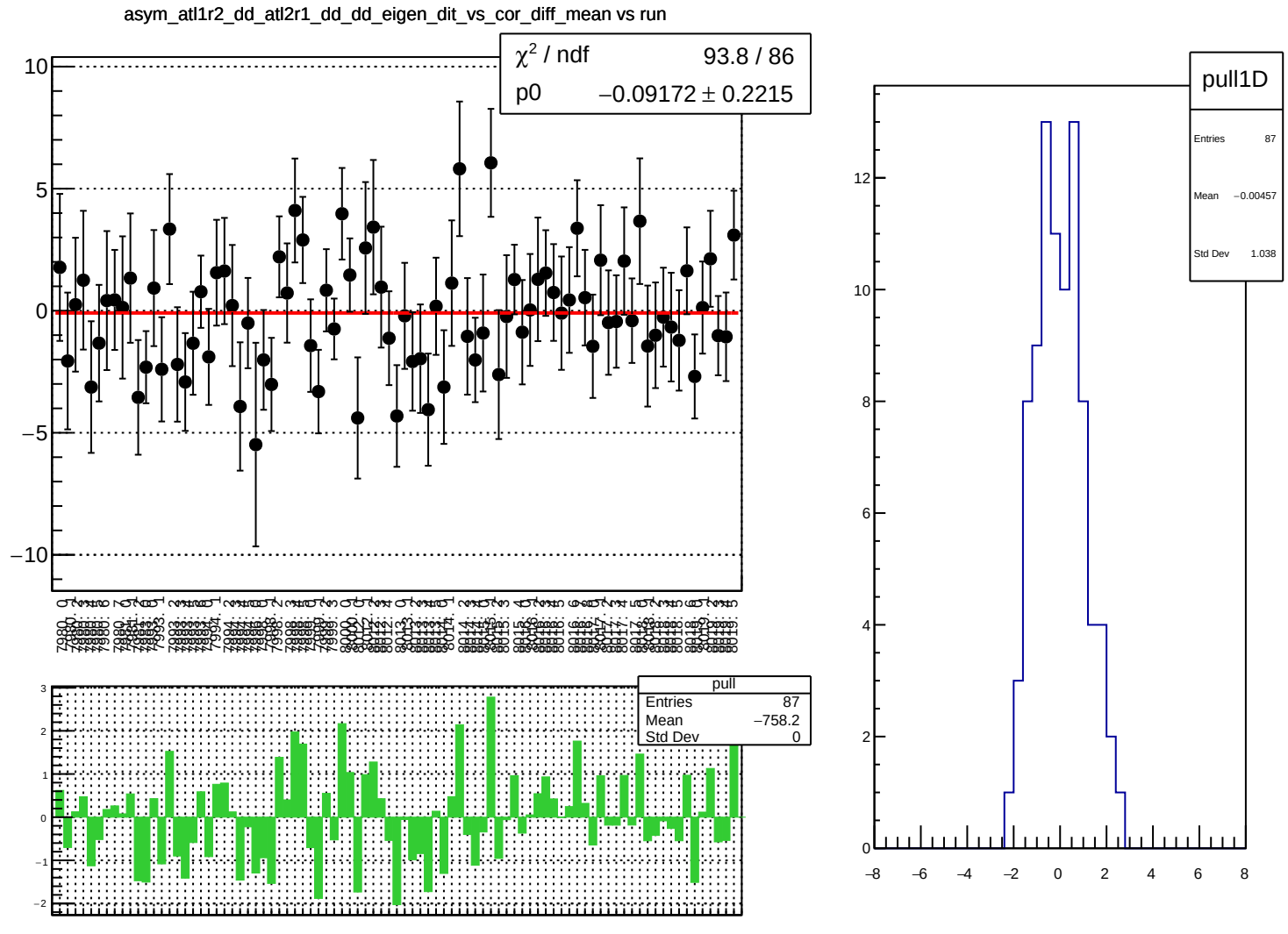

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.79 / 86
p0 −0.09174 ± 0.2215
pull
Entries 87
Mean −758.2
Std Dev 0
pull1D
Entries 87
Mean −0.00457
Std Dev 1.038

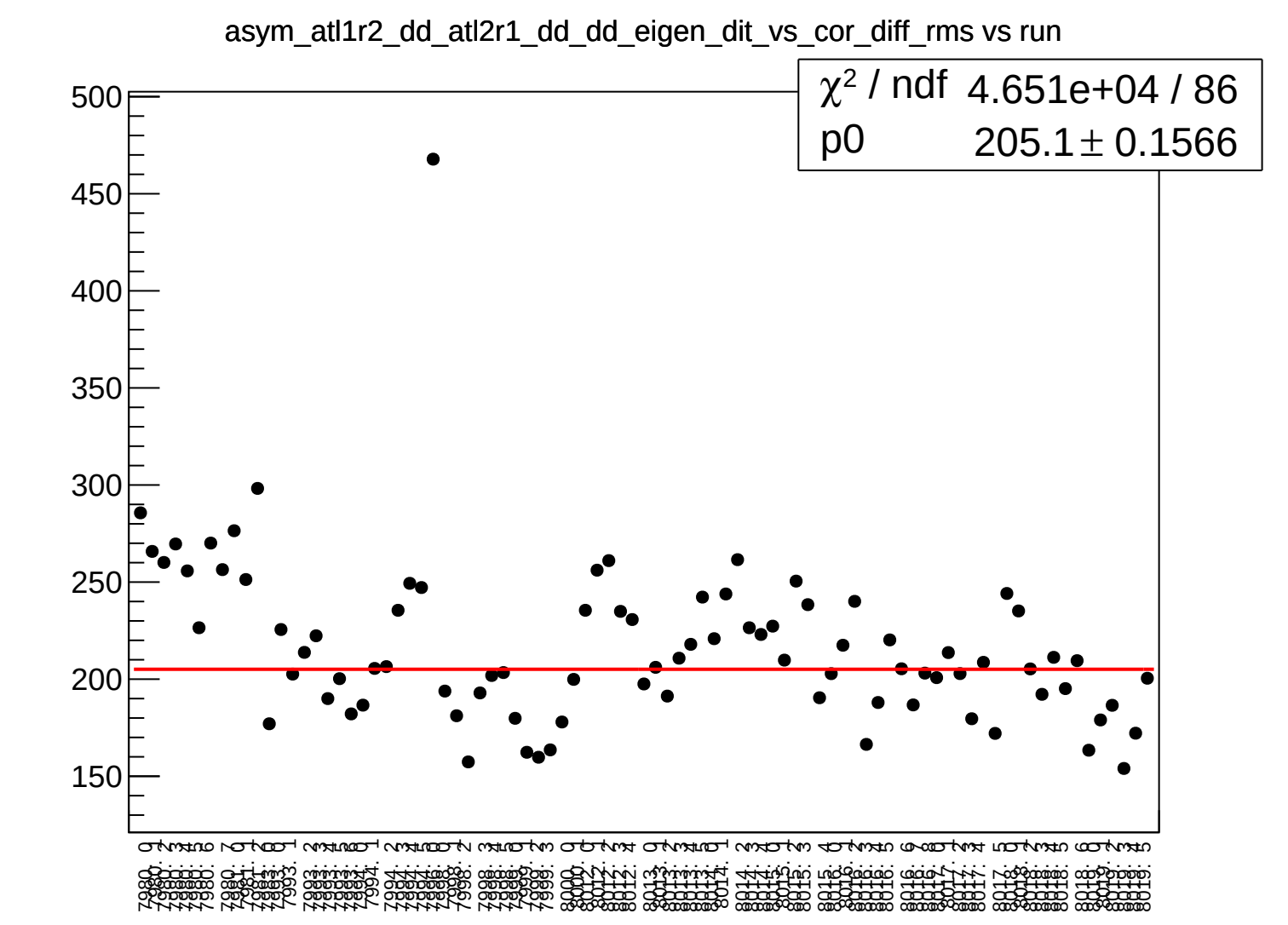

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.651e+04 / 86
p0 205.1 ± 0.1566
500
450
400
350
300
250
200
150

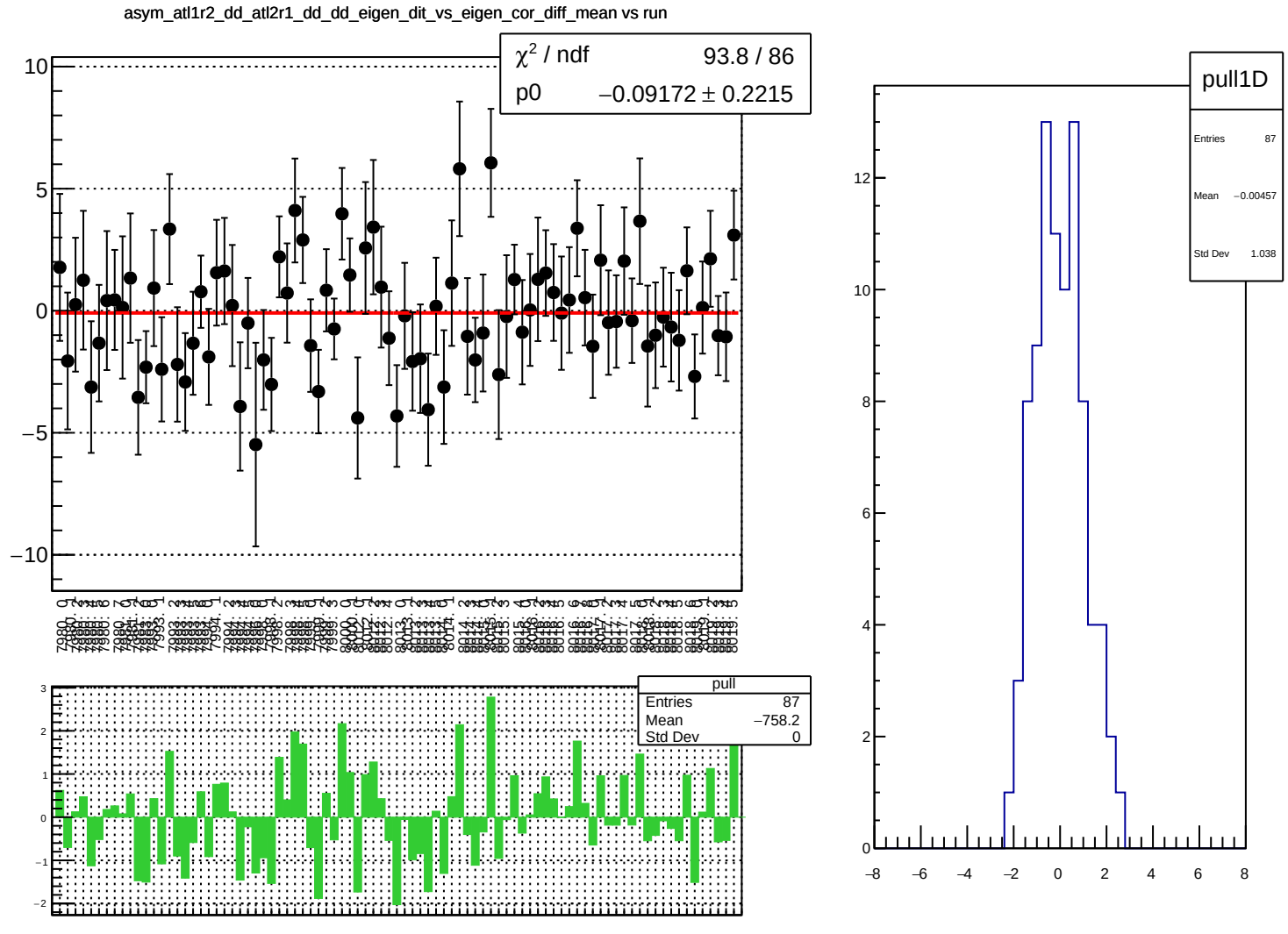

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 87.07 / 86
p0 3.077e−05 ± 1.476e−05
pull
Entries 87
Mean 40.51
Std Dev 40.76

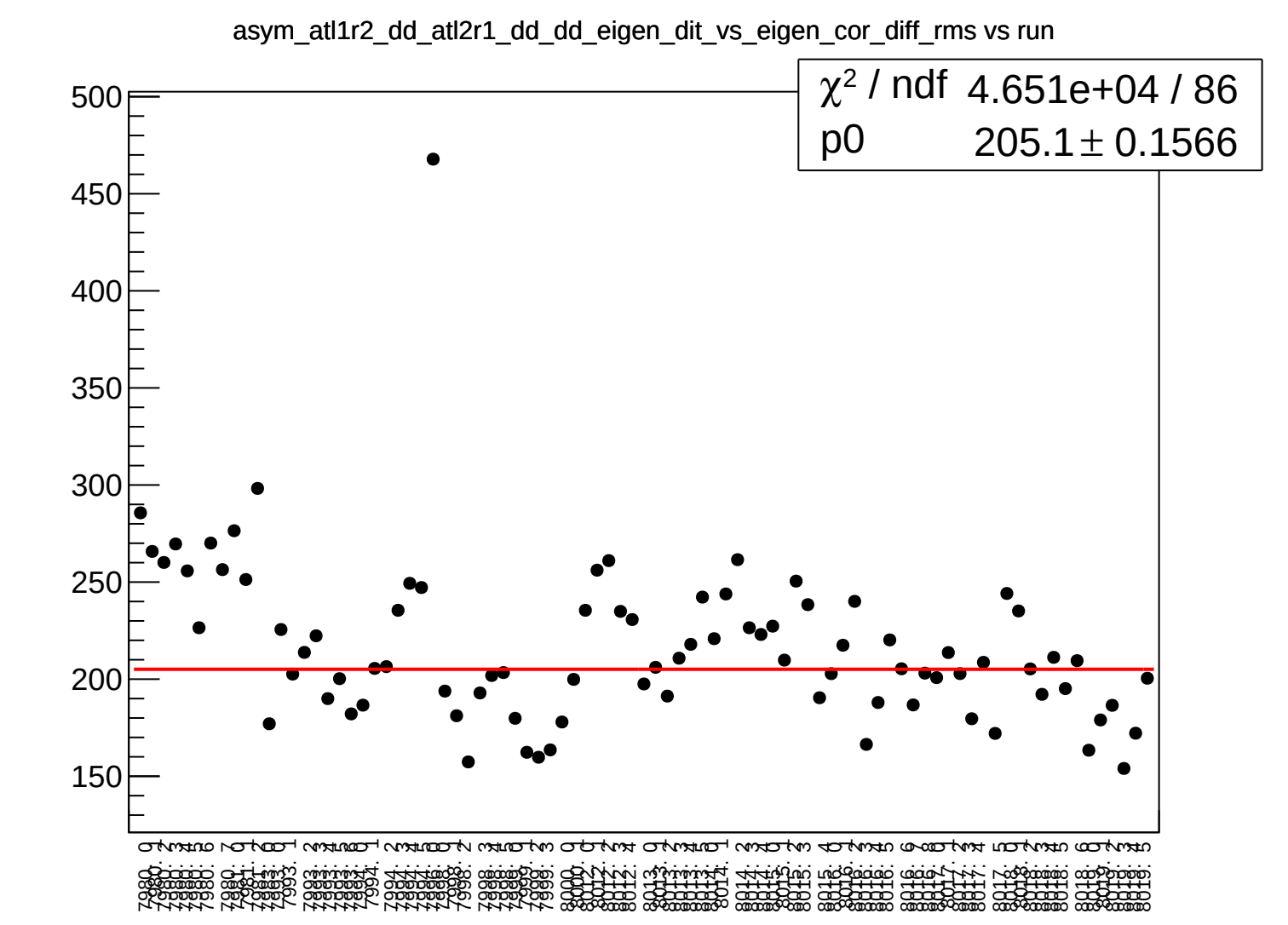

pull1D
Entries 87
Mean −0.01462
Std Dev 1

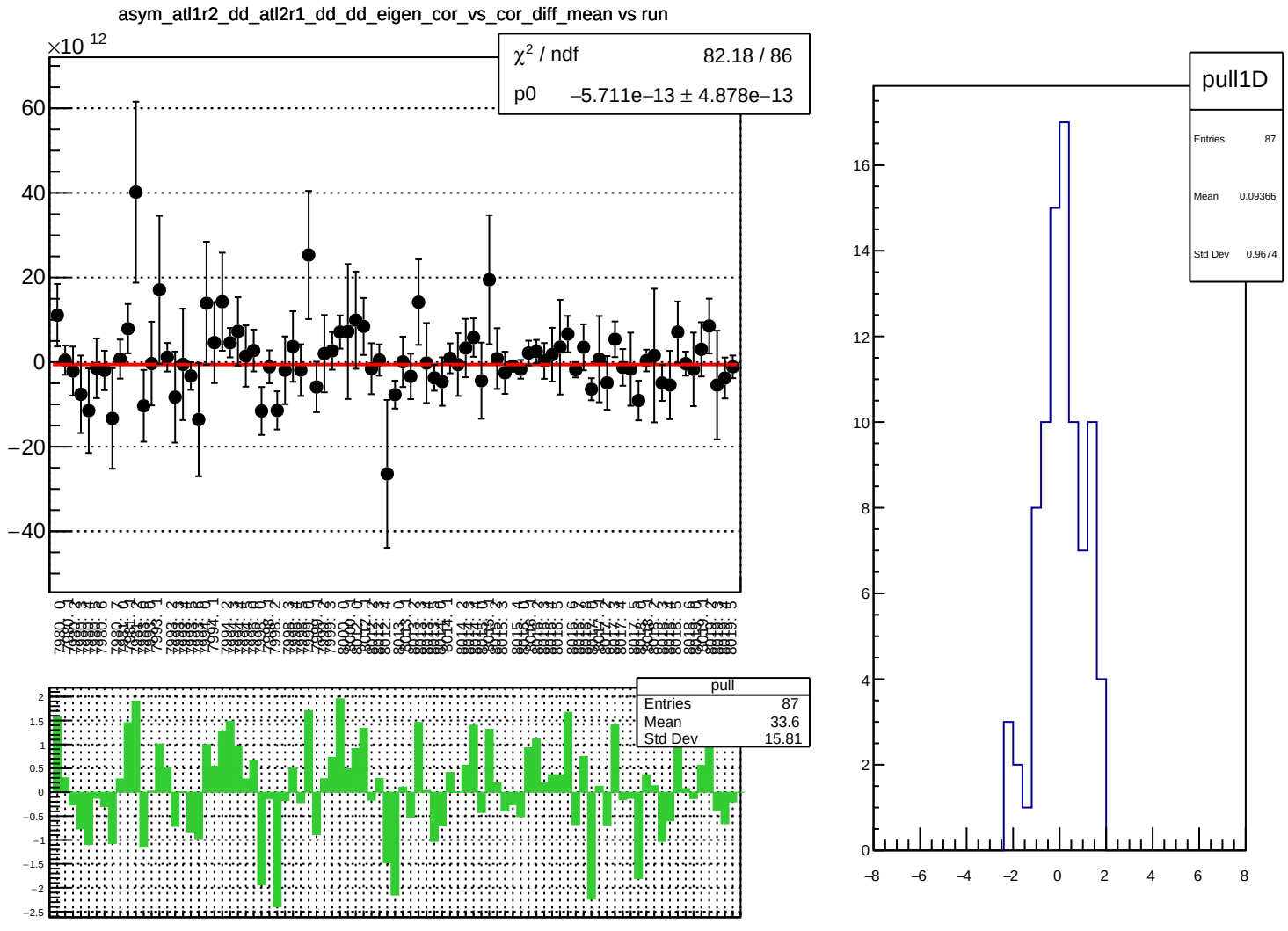

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.186e+04 / 86
p0 0.01373 ± 1.044e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

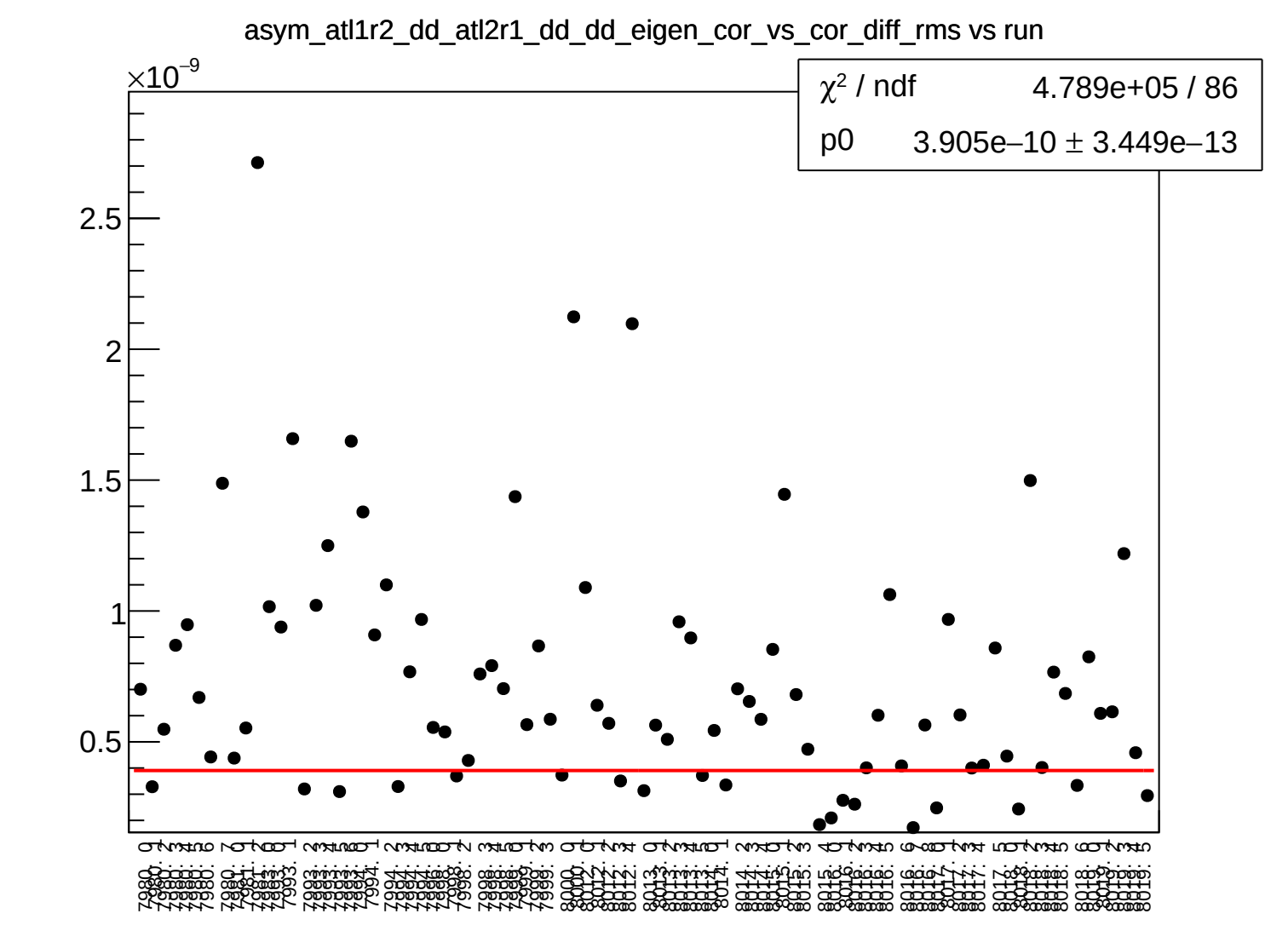

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.8 / 86
p0 −0.09172 ± 0.2215
pull
Entries 87
Mean −758.2
Std Dev 0
pull1D
Entries 87
Mean −0.00457
Std Dev 1.038

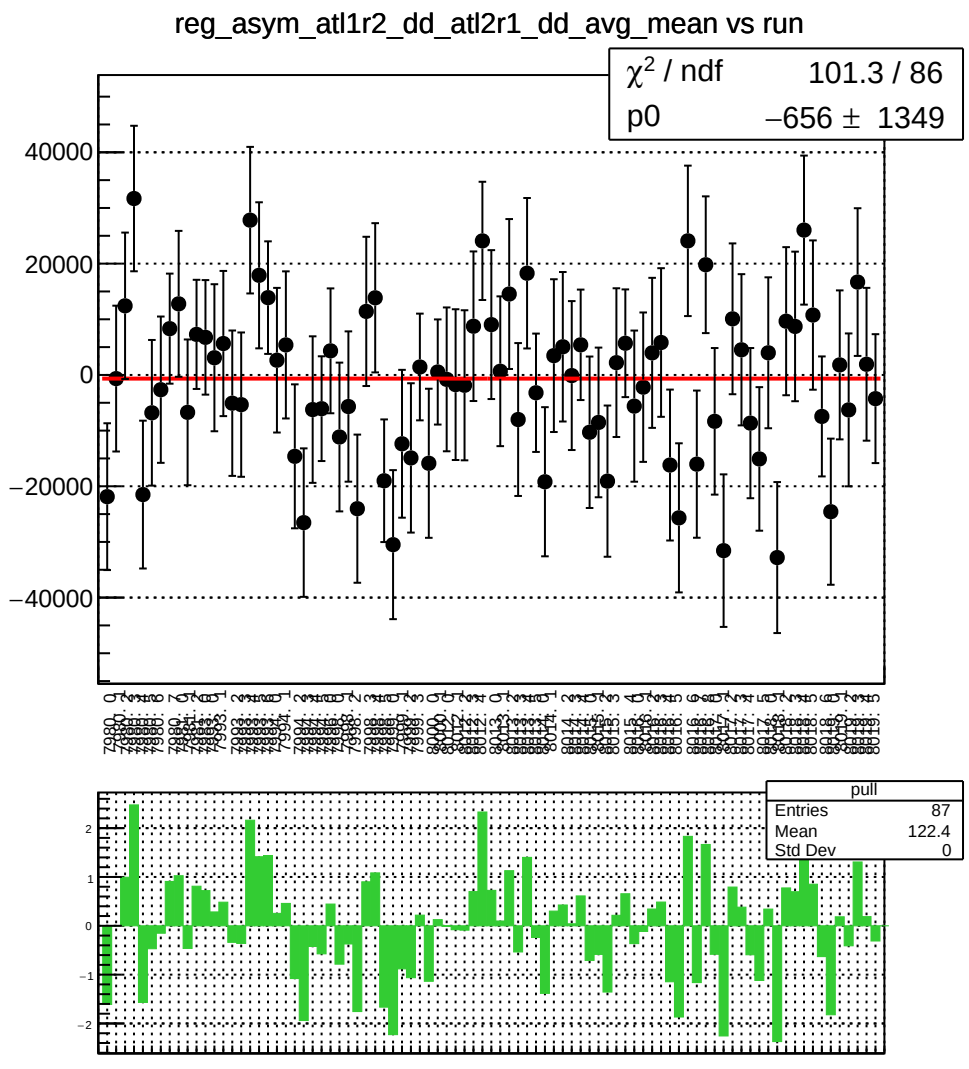

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.651e+04 / 86
p0 205.1 ± 0.1566
500
450
400
350
300
250
200
150

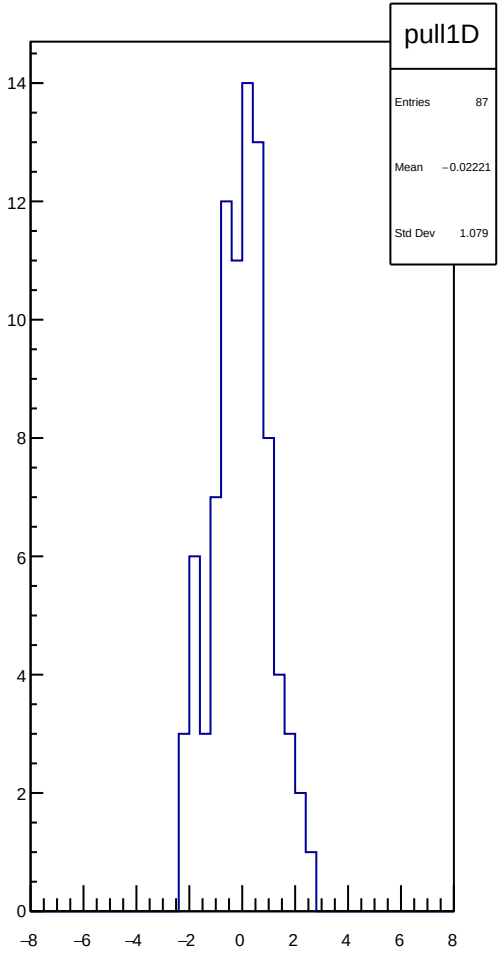

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.8 / 86
p0 −0.09172 ± 0.2215
pull
Entries 87
Mean −758.2
Std Dev 0
pull1D
Entries 87
Mean −0.00457
Std Dev 1.038

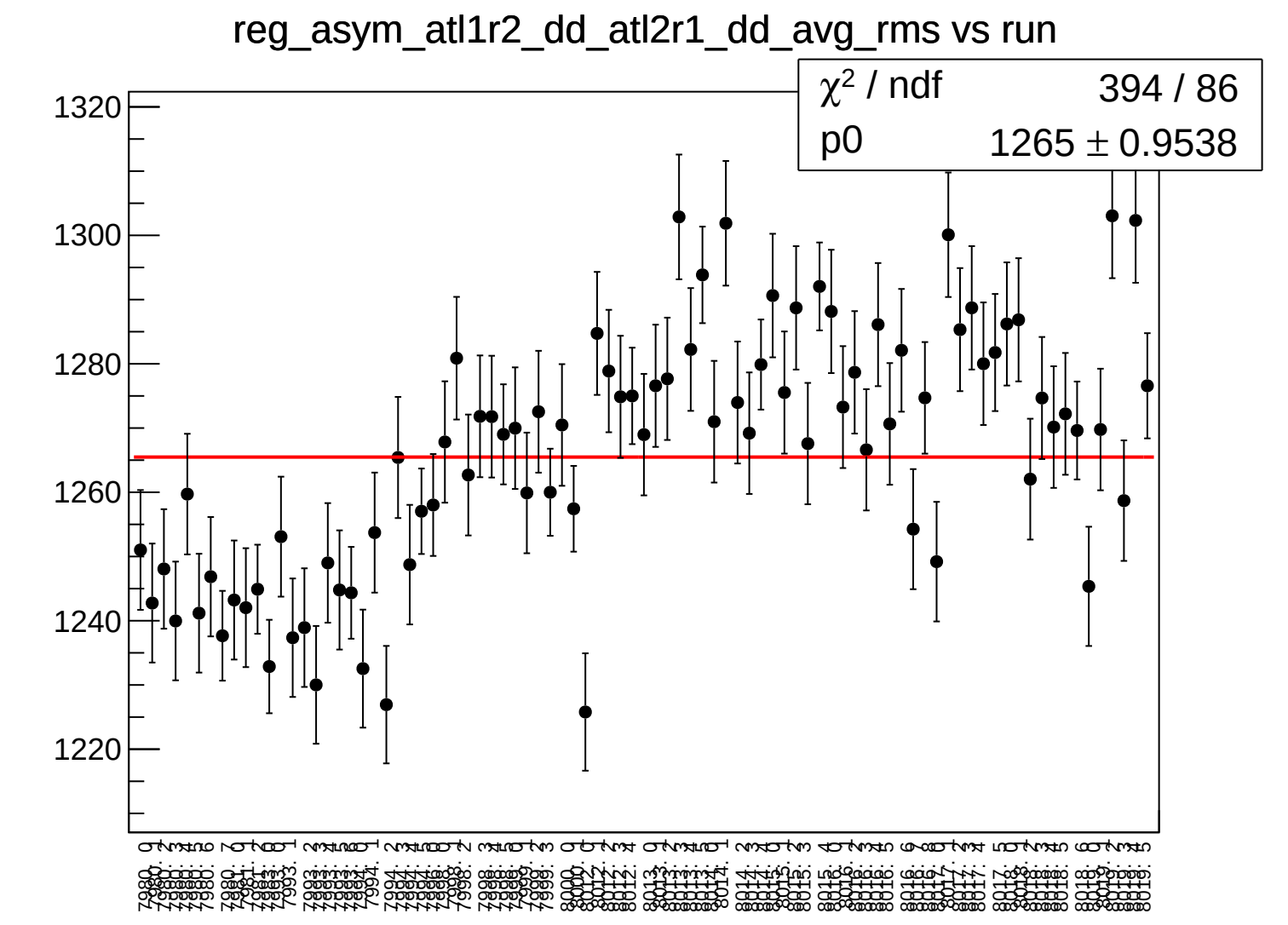

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.651e+04 / 86
p0 205.1 ± 0.1566
500
450
400
350
300
250
200
150

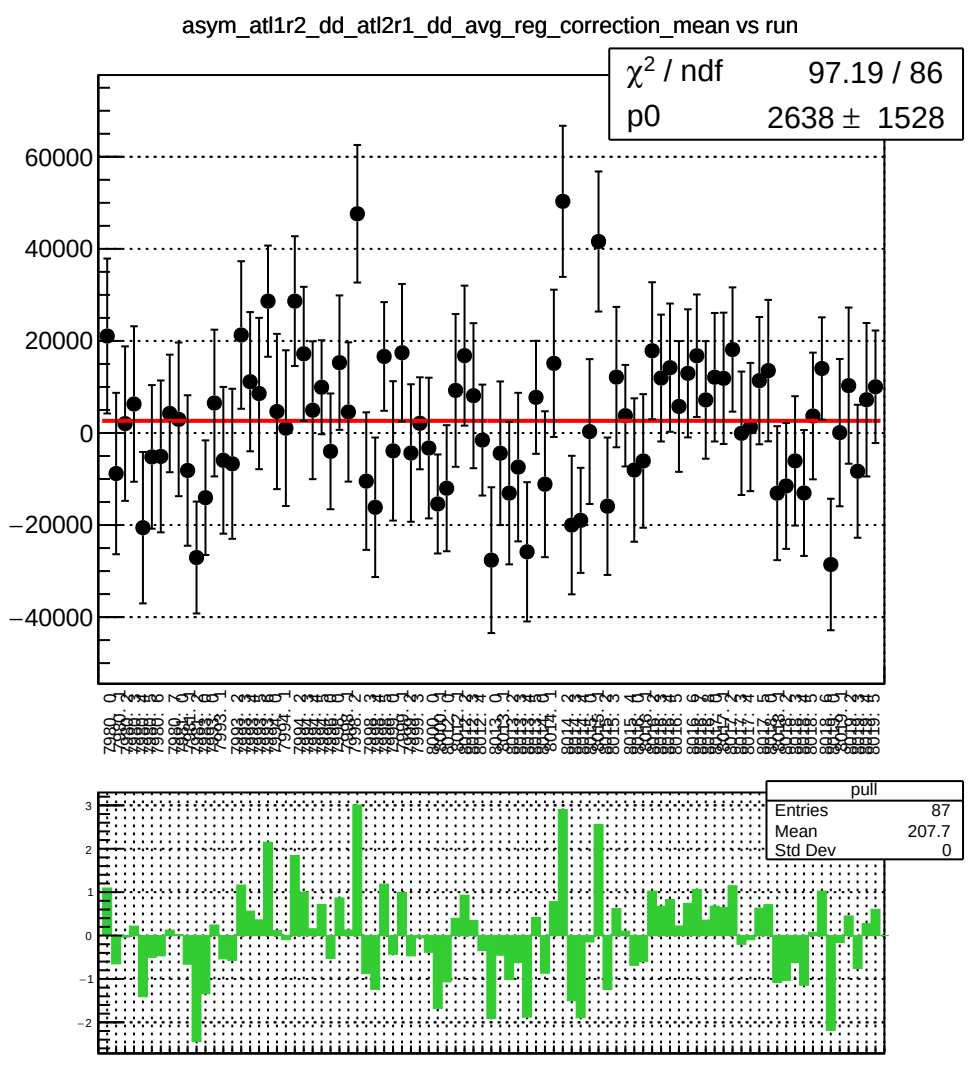

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.18 / 86
p0 −5.711e−13 ± 4.878e−13
60
40
20
0
−20
−40
pull
Entries 87
Mean 33.6
Std Dev 15.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 87
Mean 0.09366
Std Dev 0.9674
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

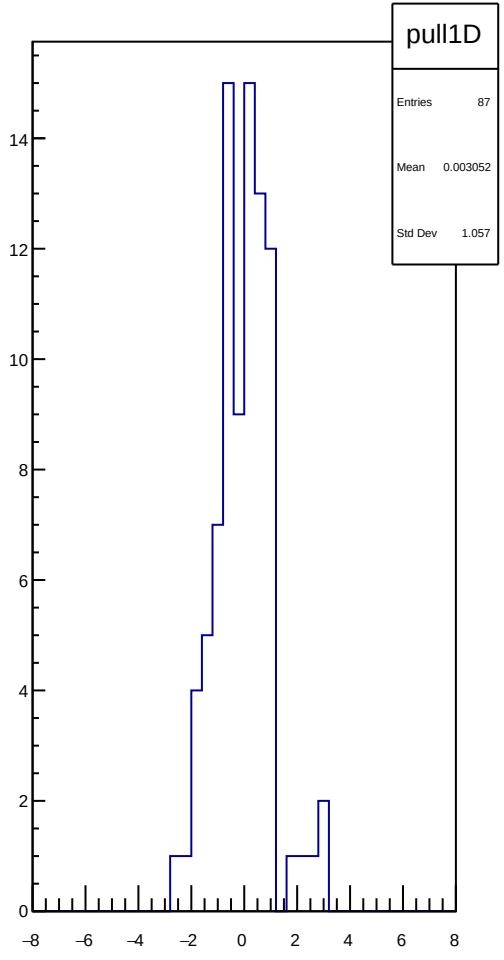

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.789e+05 / 86
p0 3.905e−10 ± 3.449e−13
2.5
2
1.5
1
0.5

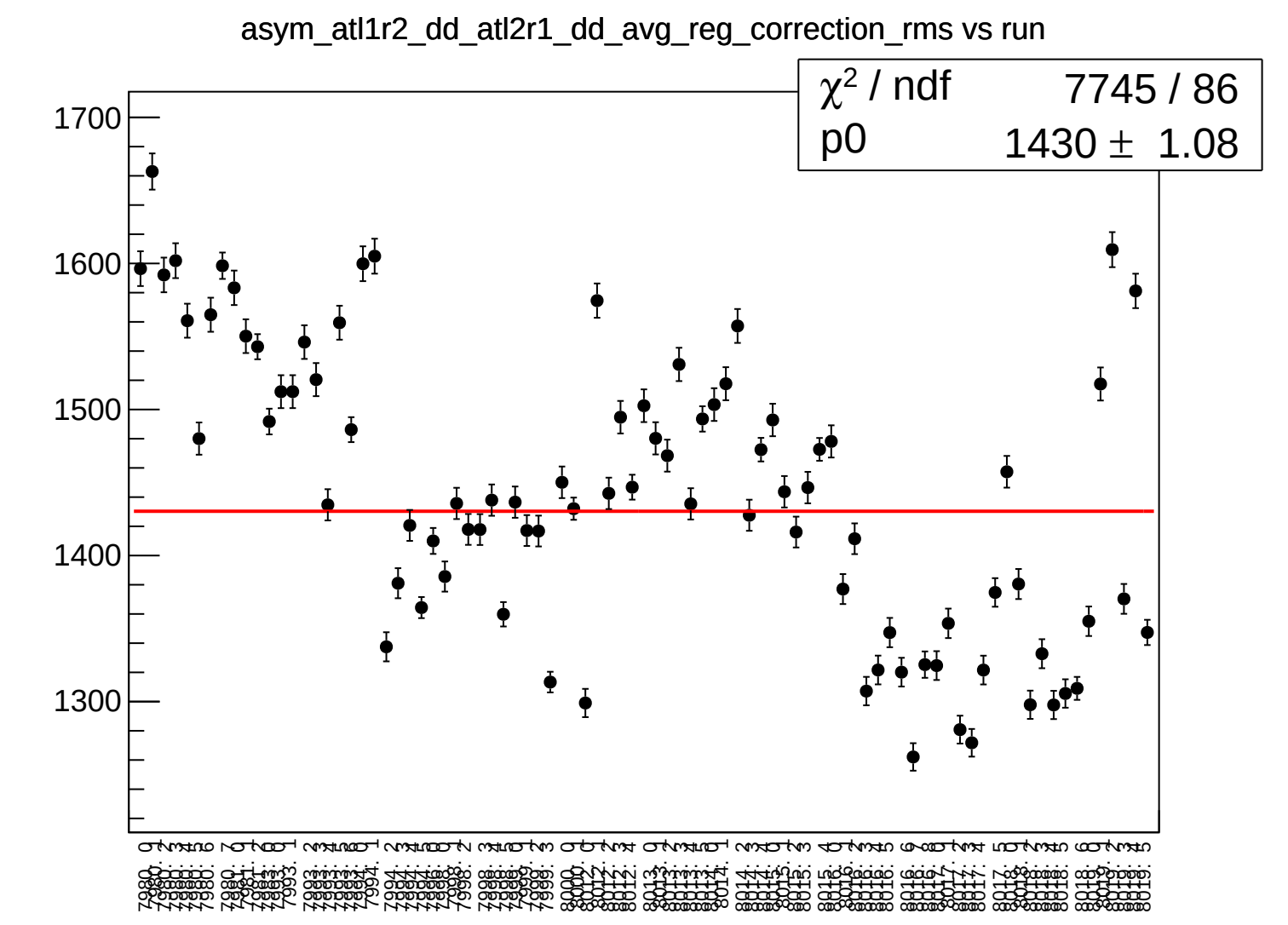

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 101.3 / 86
p0 −656 ± 1349
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 122.4
Std Dev 0
2
1
0
−1
−2

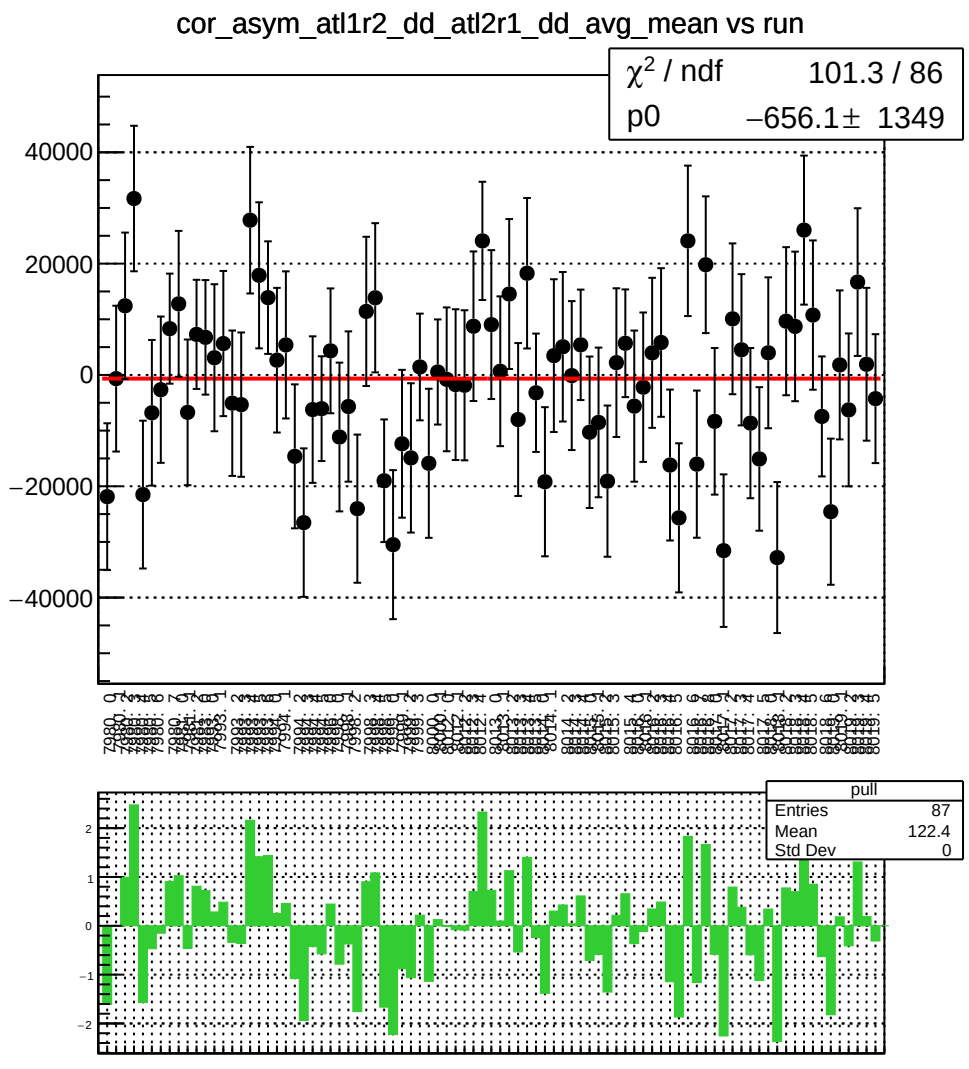

pull1D
Entries 87
Mean −0.02221
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

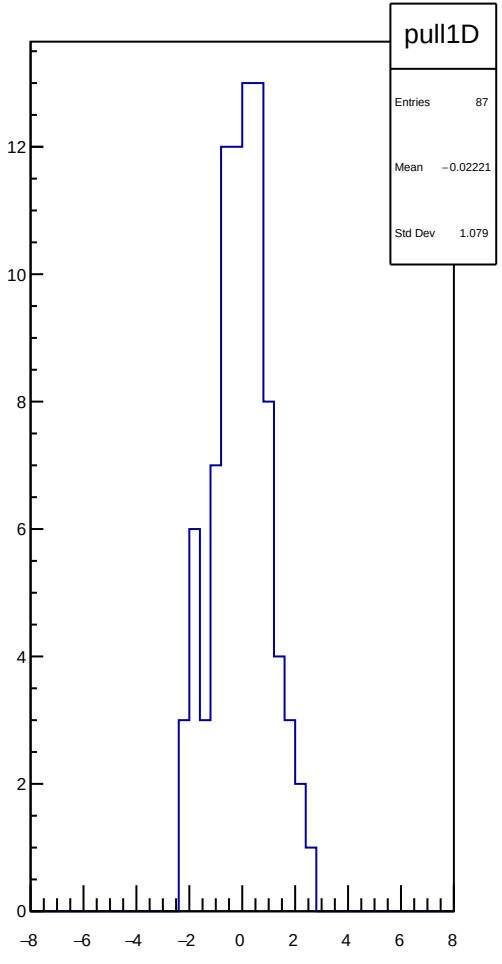

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 394 / 86
p0 1265 ± 0.9538
1320
1300
1280
1260
1240
1220

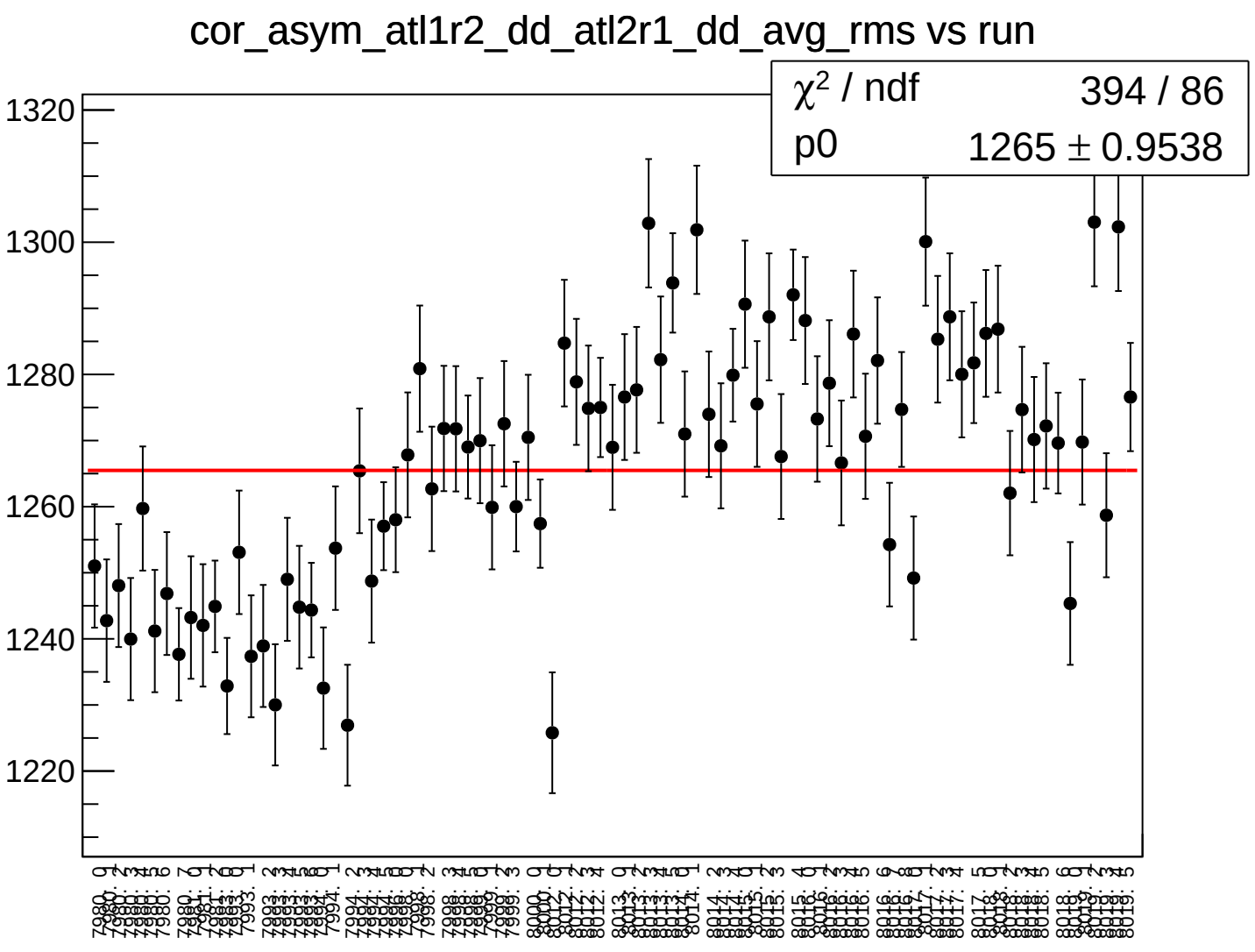

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 97.19 / 86
p0 2638 ± 1528
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 207.7
Std Dev 0
3
2
1
0
−1
−2

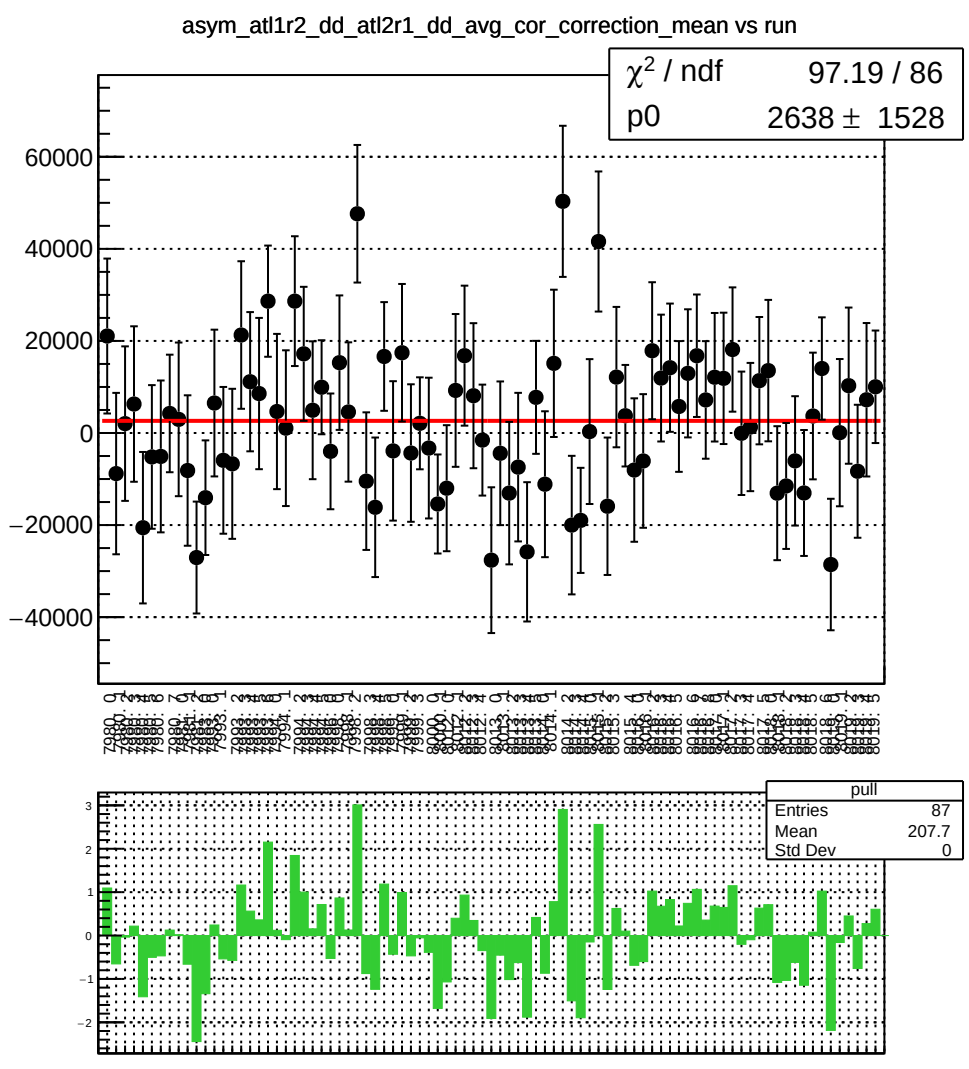

pull1D
Entries 87
Mean 0.003052
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

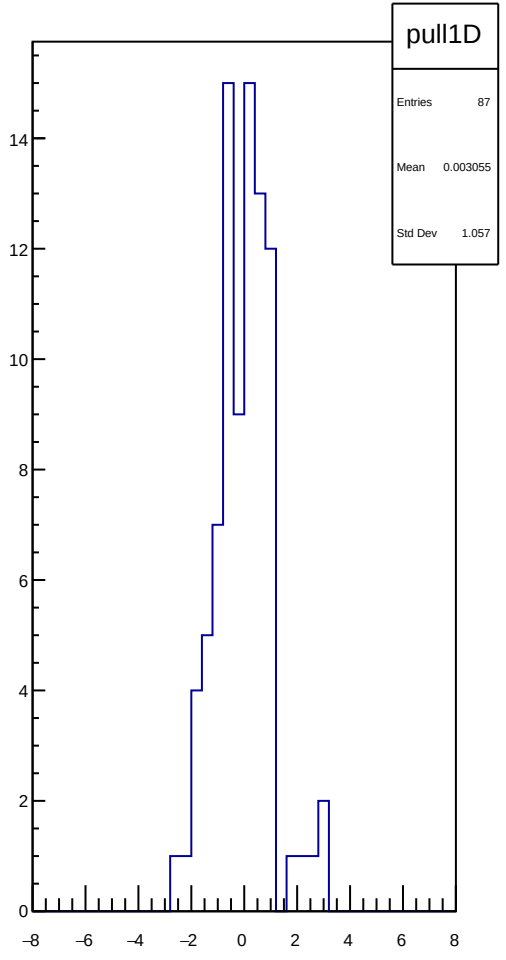

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 7745 / 86
p0 1430 ± 1.08
1700
1600
1500
1400
1300

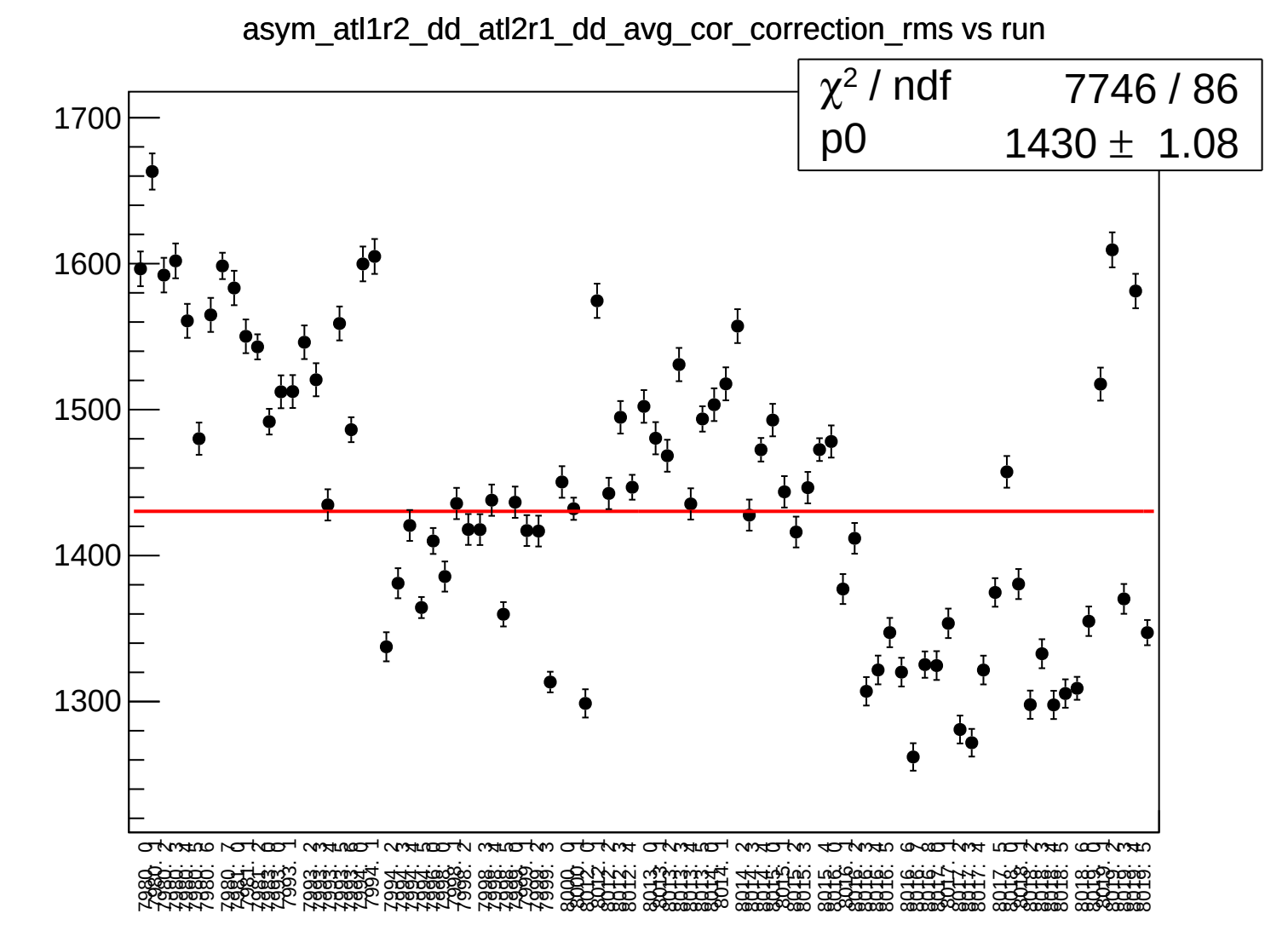

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 101.3 / 86
p0 −656.1± 1349
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 122.4
Std Dev 0
2
1
0
−1
−2

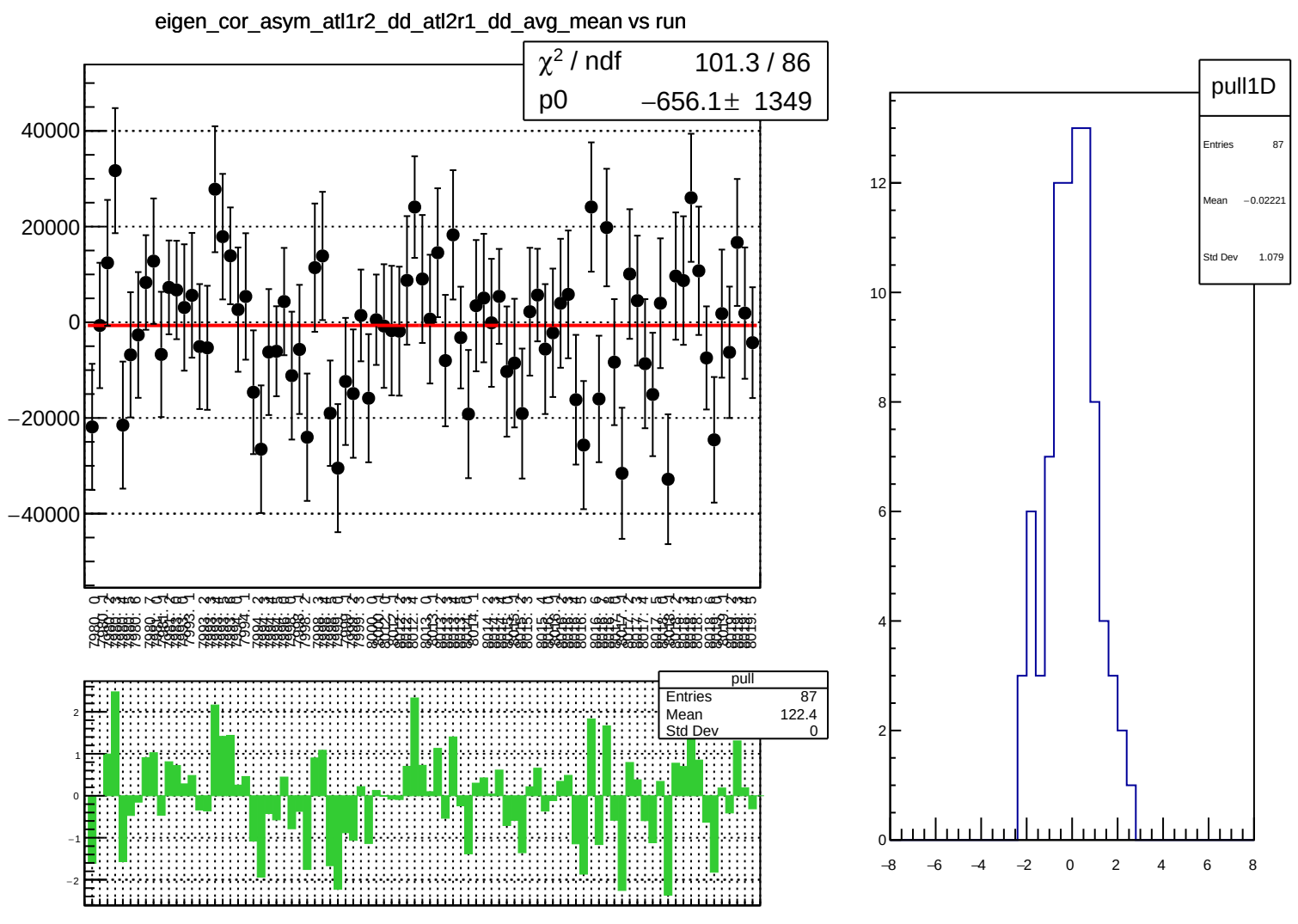

pull1D
Entries 87
Mean −0.02221
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

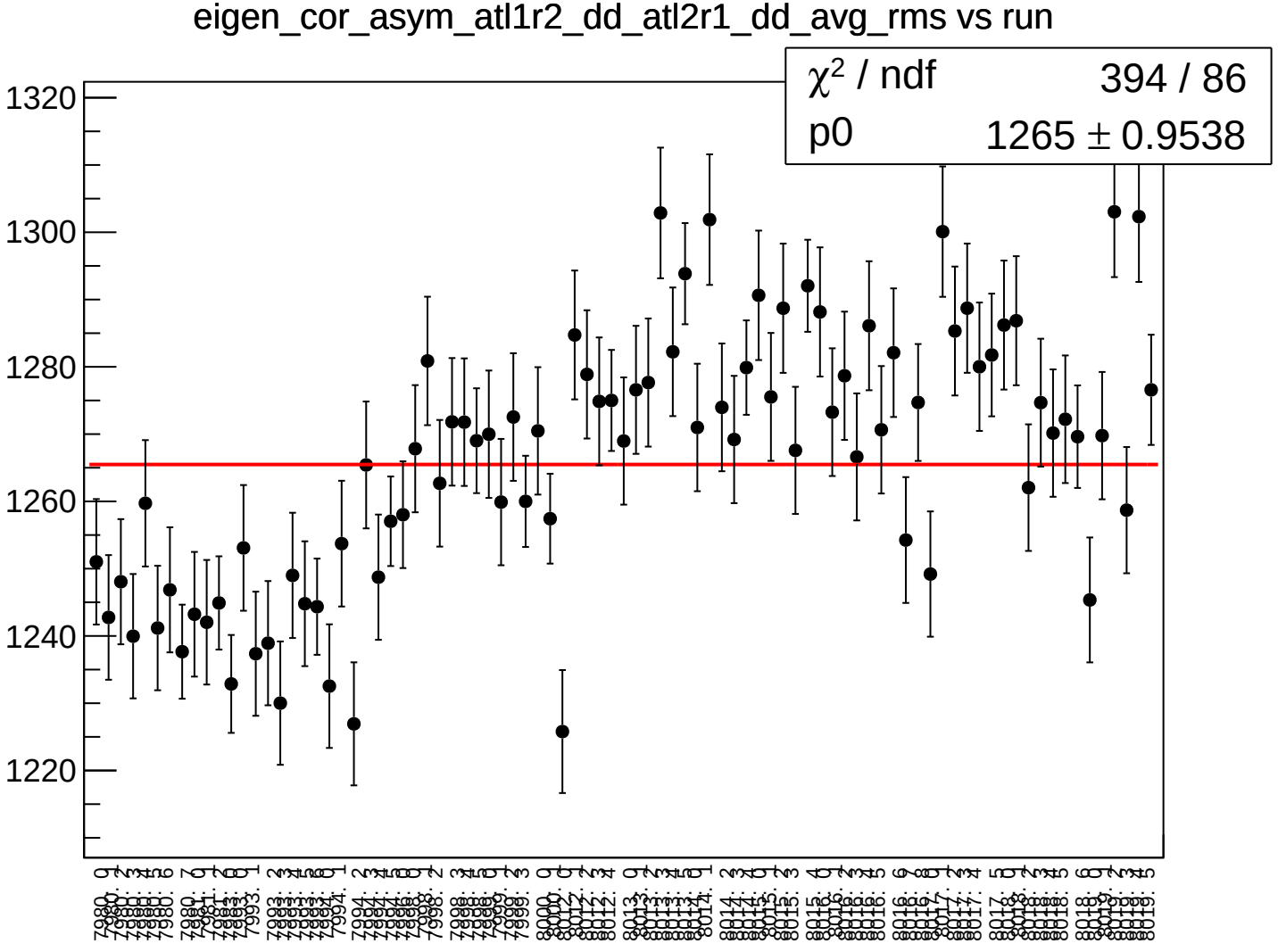

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 394 / 86
p0 1265 ± 0.9538
1320
1300
1280
1260
1240
1220

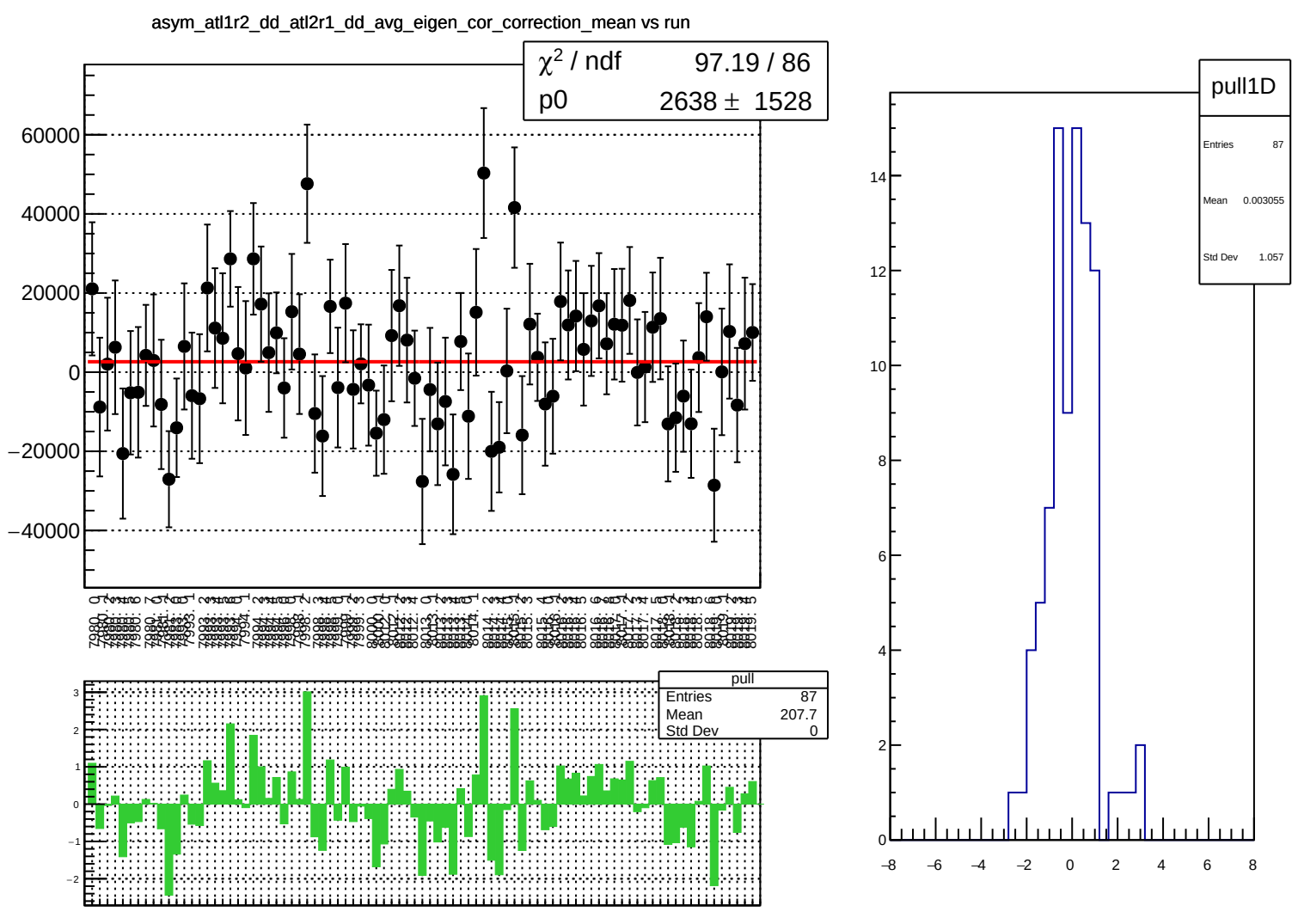

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 97.19 / 86
p0 2638 ± 1528
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 207.7
Std Dev 0
3
2
1
0
−1
−2

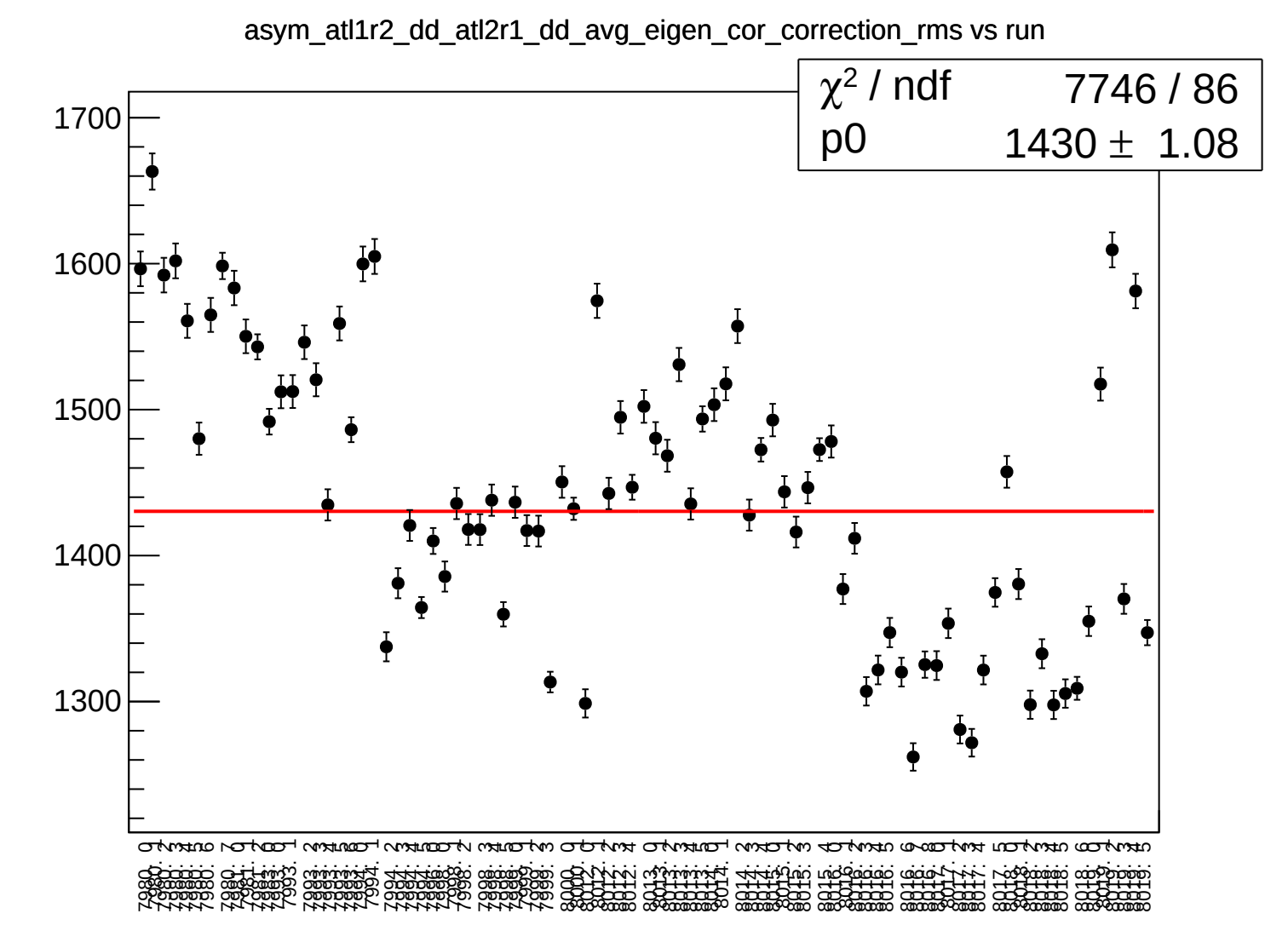

pull1D
Entries 87
Mean 0.003055
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

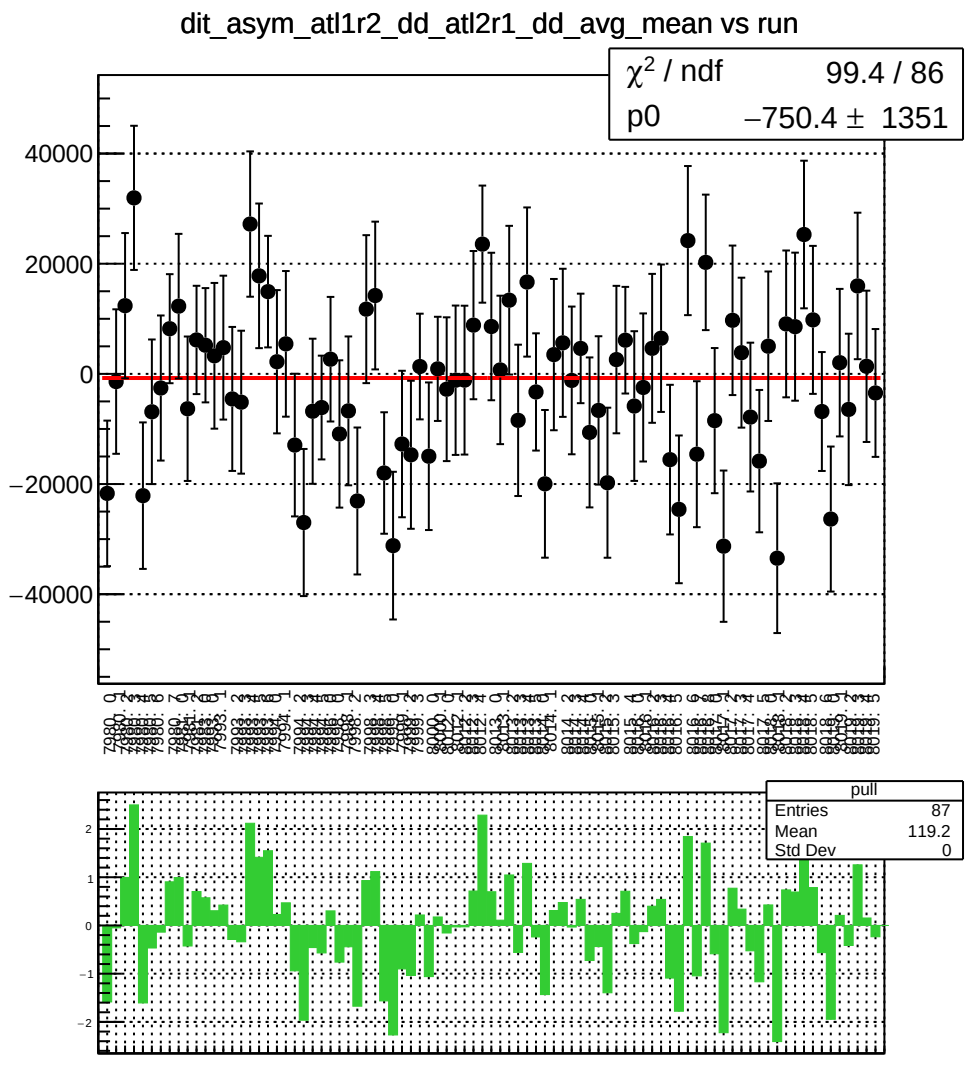

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 7746 / 86
p0 1430 ± 1.08
1700
1600
1500
1400
1300

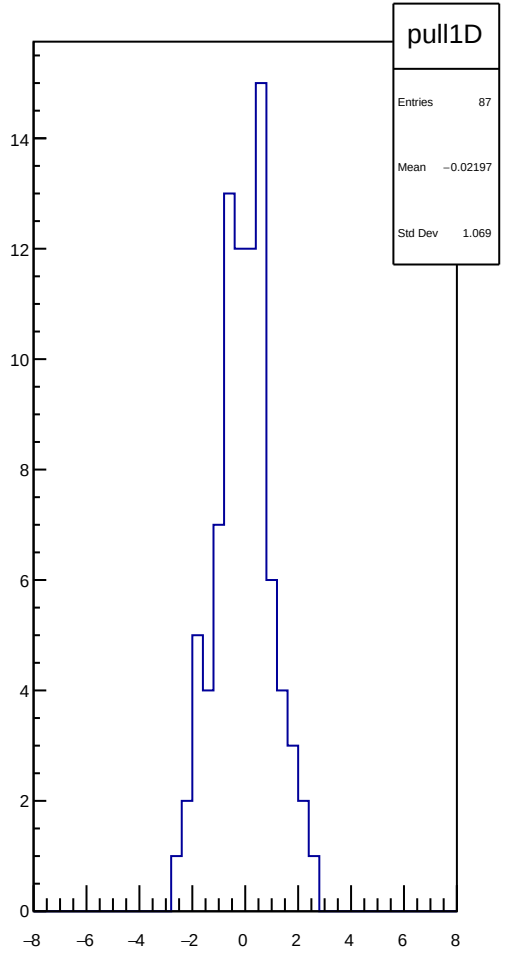

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 101.3 / 86
p0 −656.1± 1349
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 122.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.02221
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

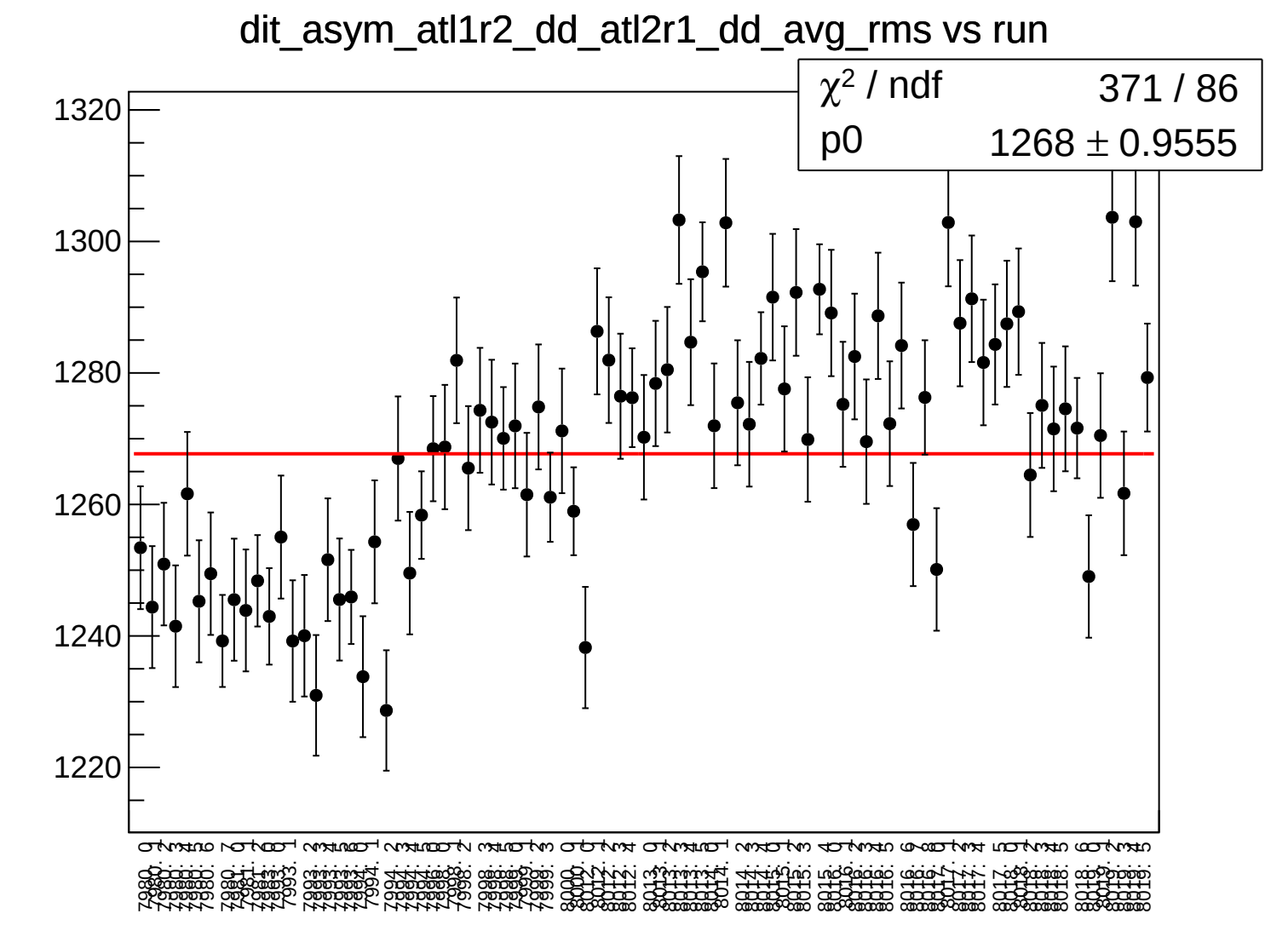

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 394 / 86
p0 1265 ± 0.9538
1320
1300
1280
1260
1240
1220

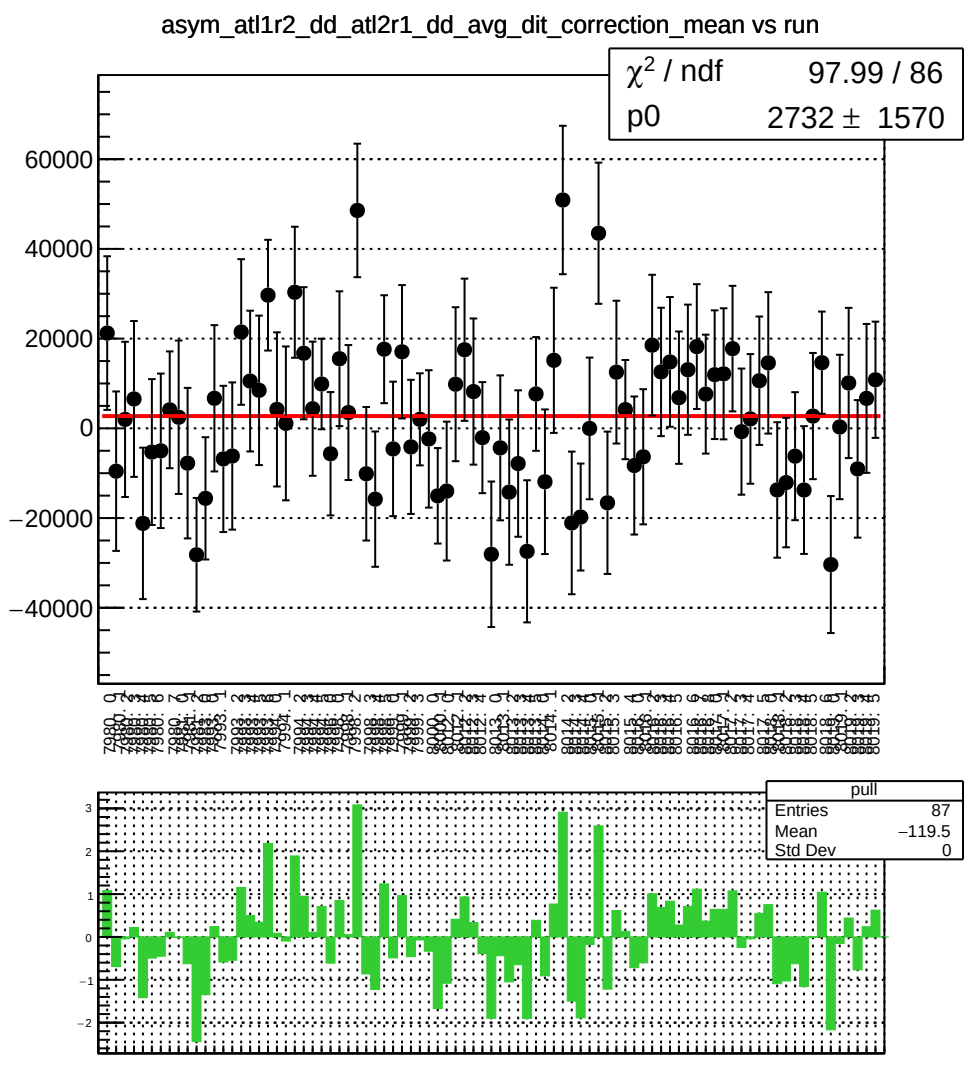

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.19 / 86
p0 2638 ± 1528
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 207.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.003055
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

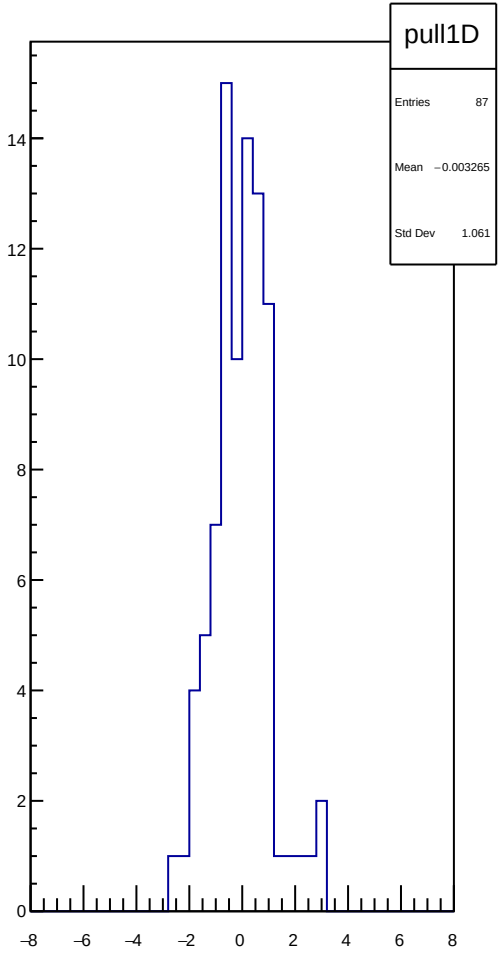

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7746 / 86
p0 1430 ± 1.08
1700
1600
1500
1400
1300

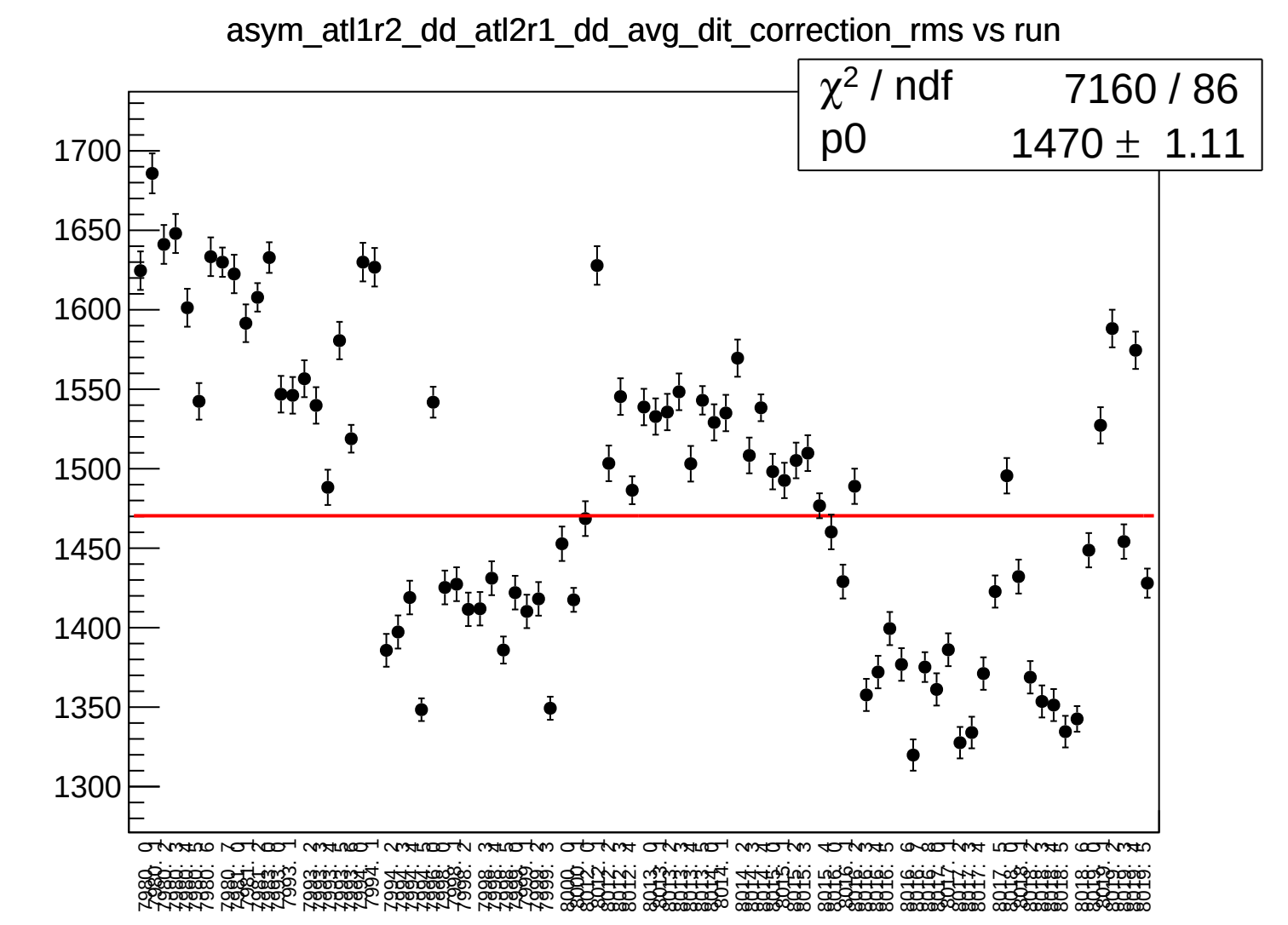

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.4 / 86
p0 −750.4 ± 1351
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 119.2
Std Dev 0
2
1
0
−1
−2

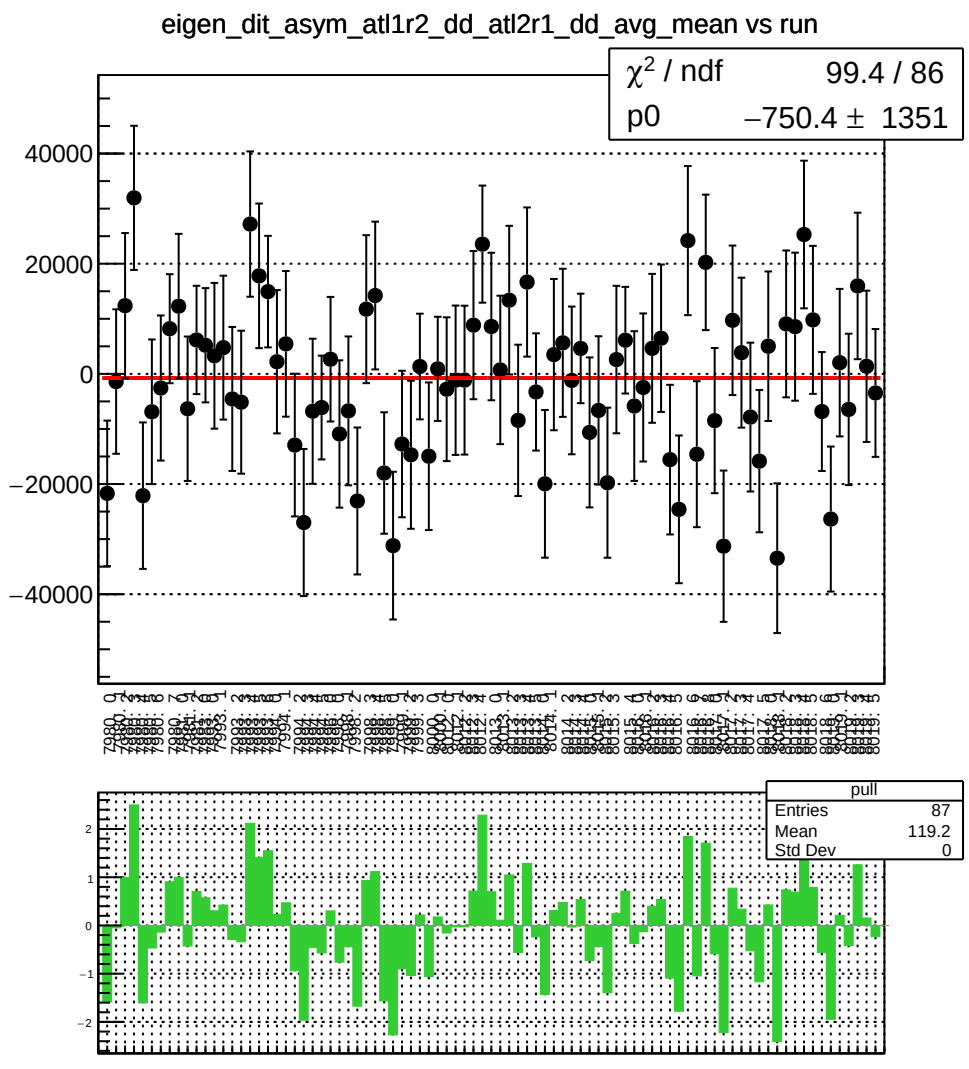

pull1D
Entries 87
Mean −0.02197
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

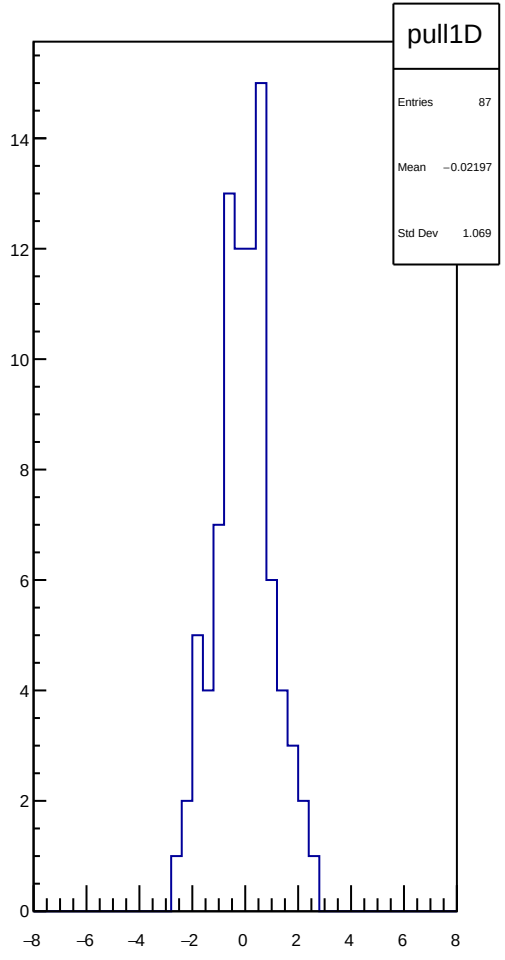

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 371 / 86
p0 1268 ± 0.9555
1320
1300
1280
1260
1240
1220

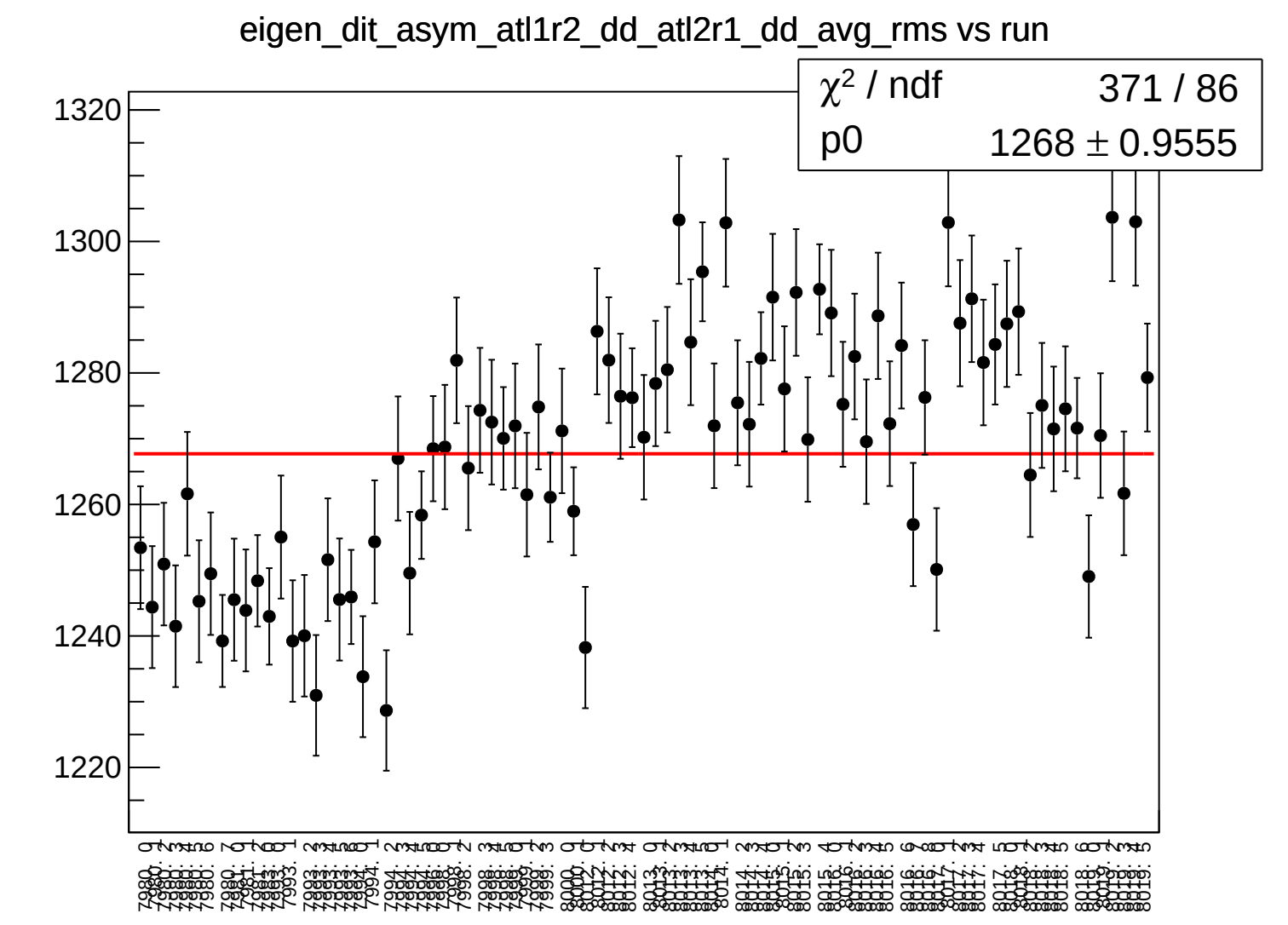

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 97.99 / 86
p0 2732 ± 1570
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −119.5
Std Dev 0
3
2
1
0
−1
−2

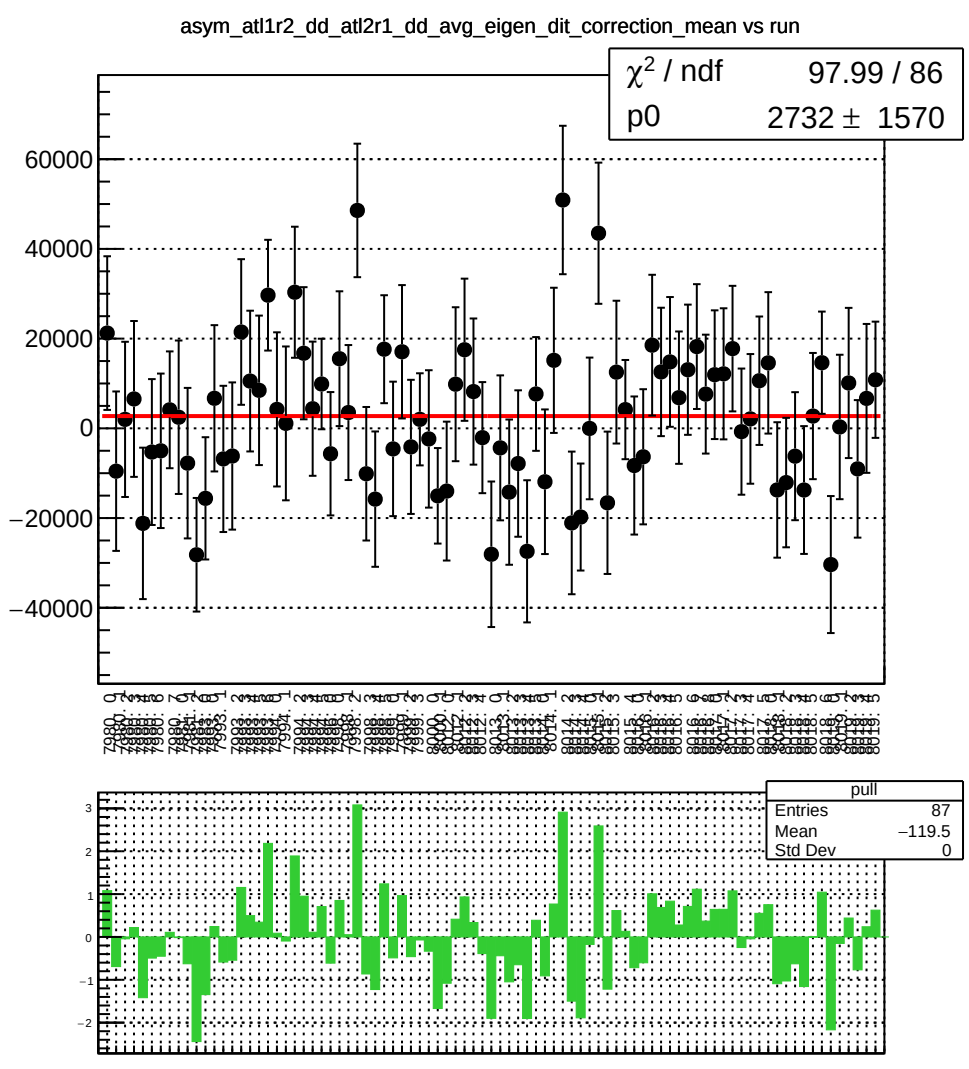

pull1D
Entries 87
Mean −0.003265
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

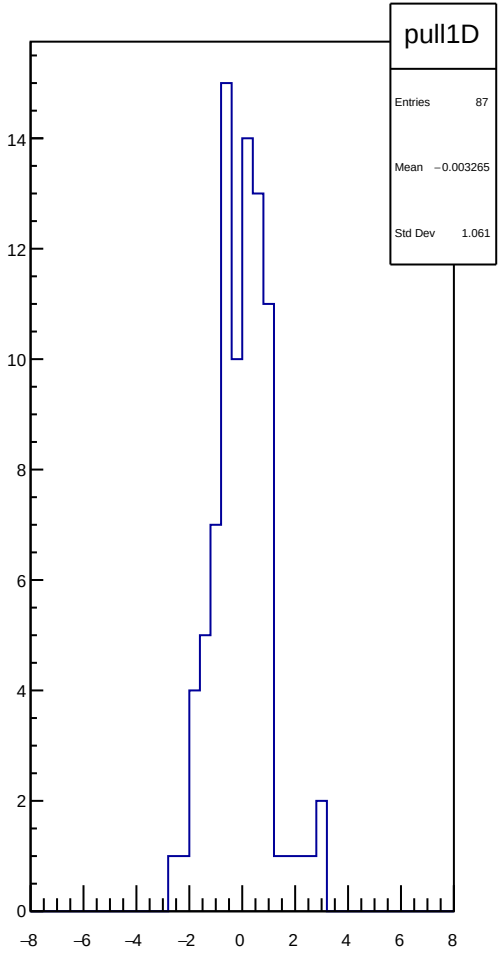

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 7160 / 86
p0 1470 ± 1.11
1700
1650
1600
1550
1500
1450
1400
1350
1300

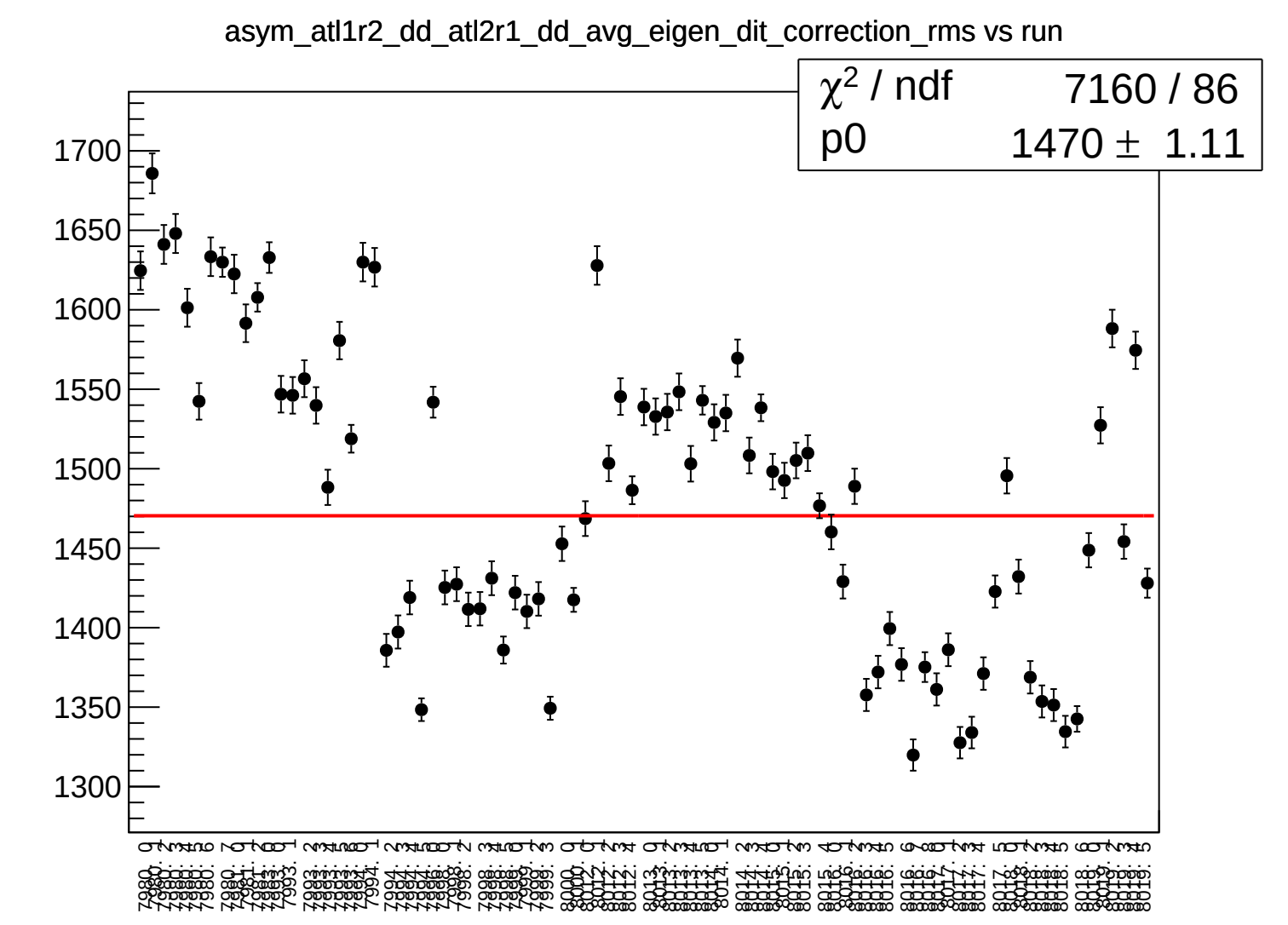

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.4 / 86
p0 −750.4 ± 1351
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 119.2
Std Dev 0
2
1
0
−1
−2

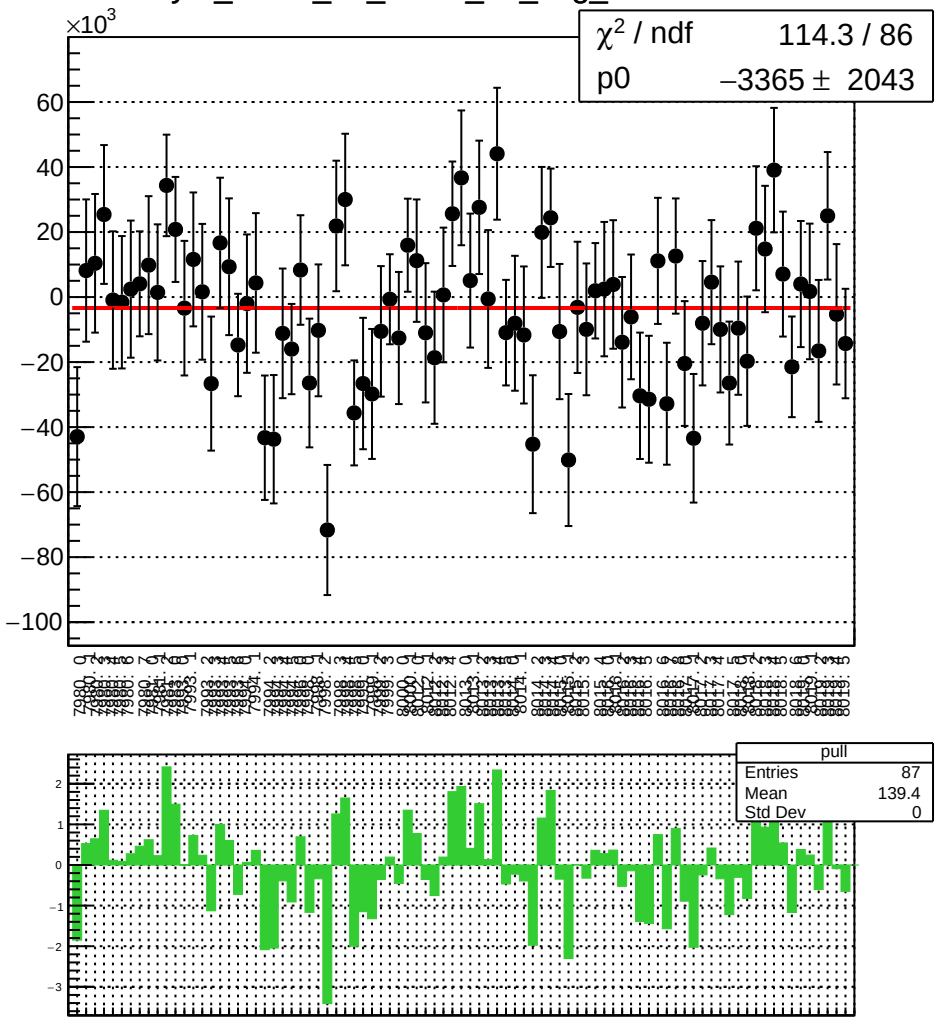

pull1D
Entries 87
Mean −0.02197
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

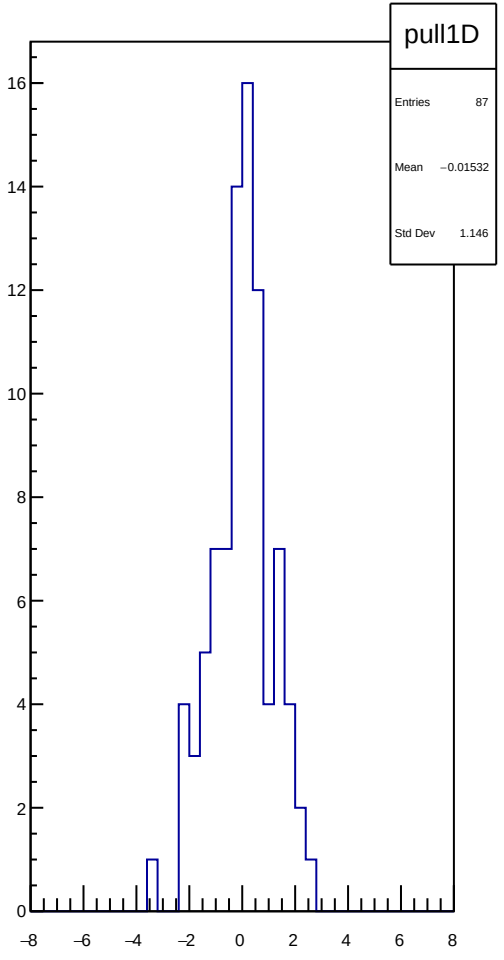

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 371 / 86
p0 1268 ± 0.9555
1320
1300
1280
1260
1240
1220

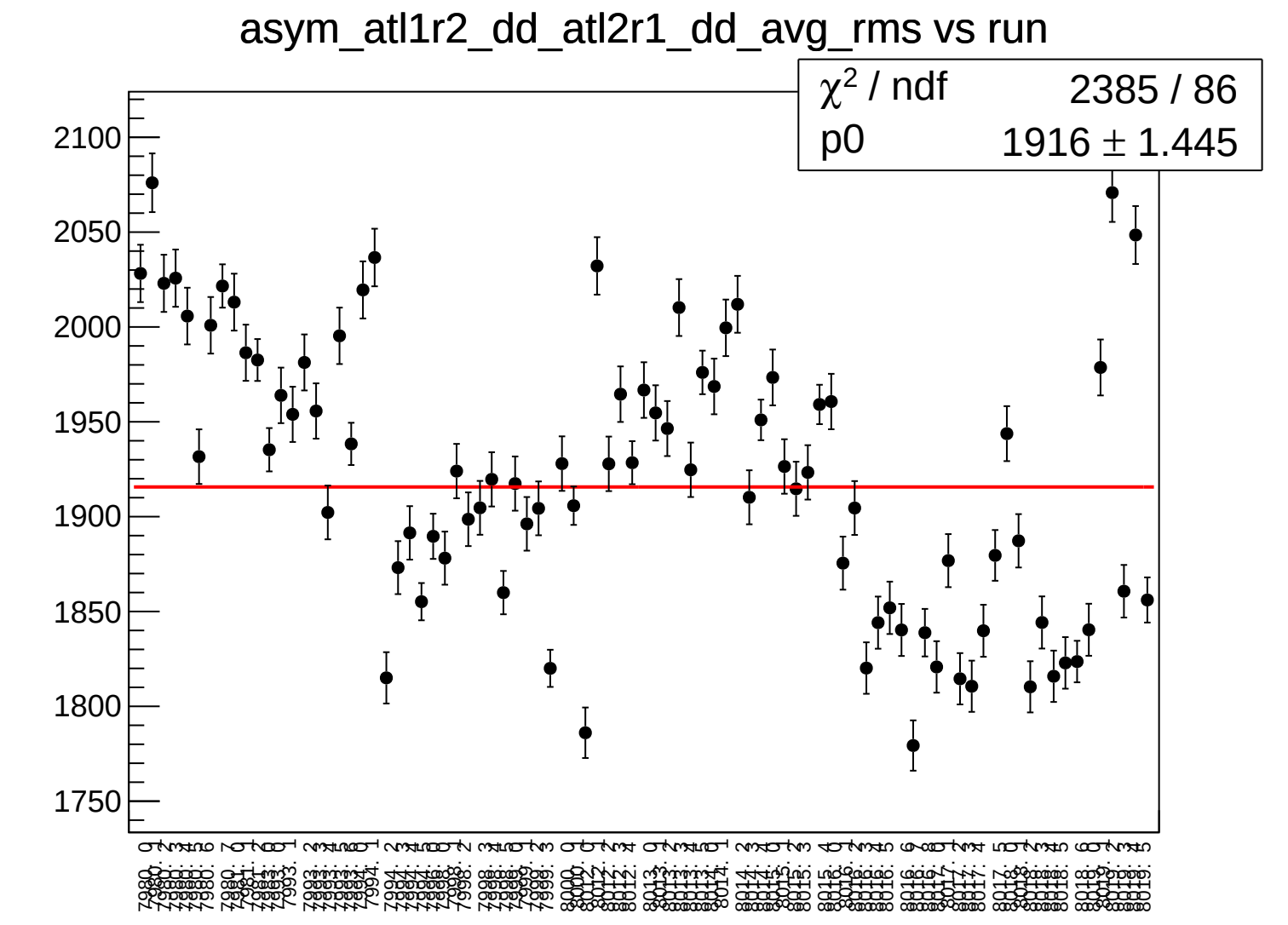

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.99 / 86
p0 2732 ± 1570
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −119.5
Std Dev 0
3
2
1
0
−1
−2

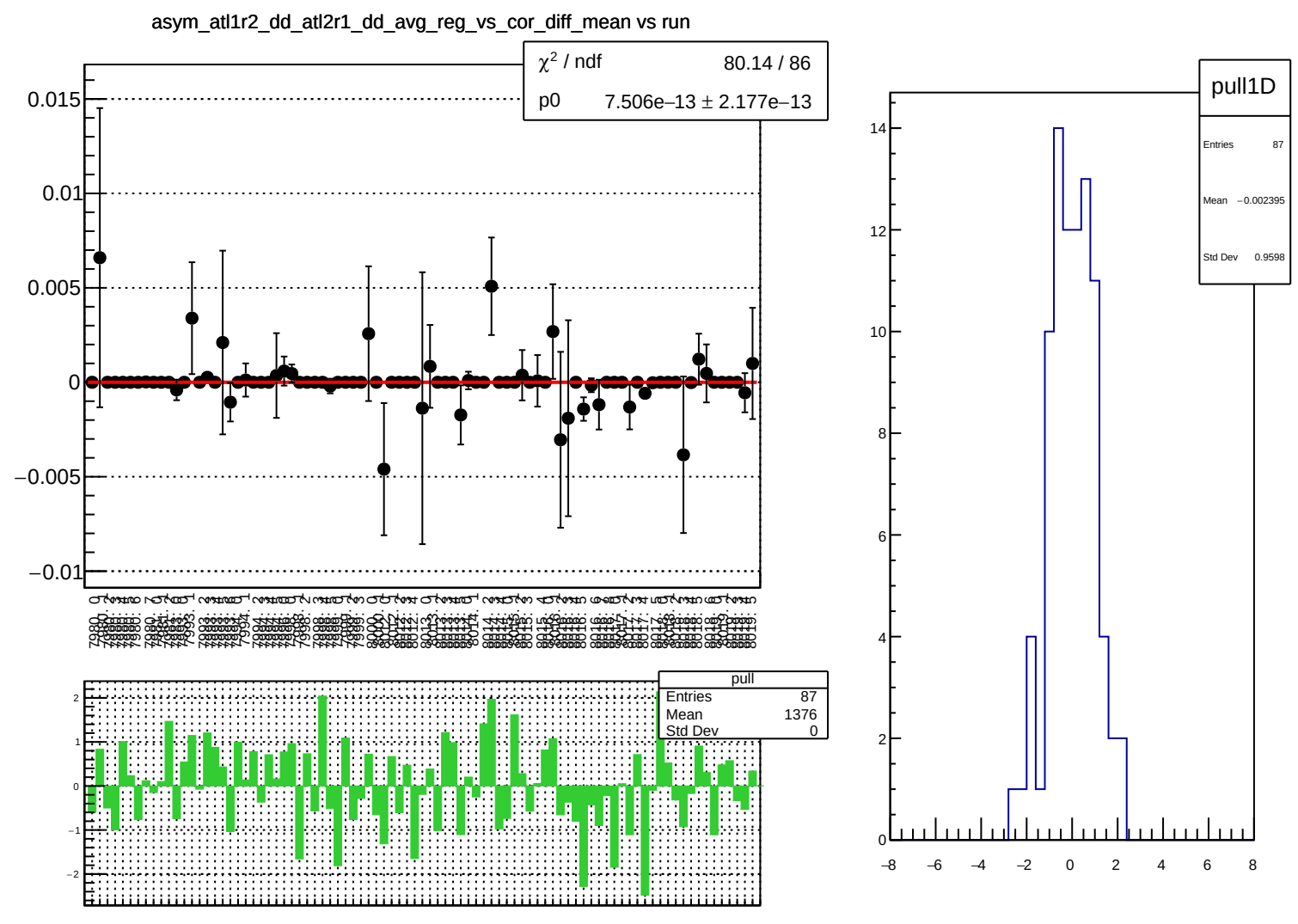

pull1D
Entries 87
Mean −0.003265
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

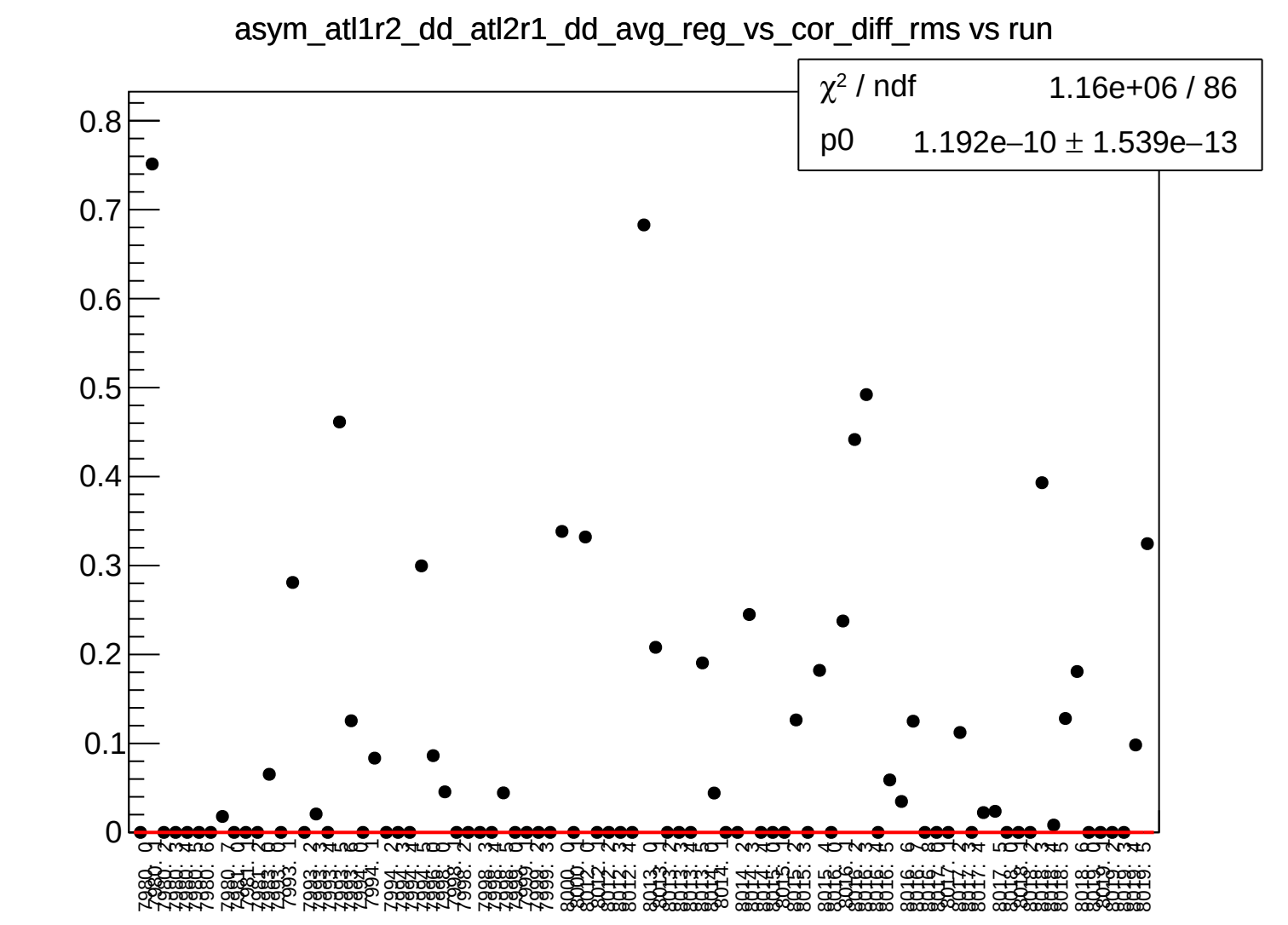

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7160 / 86
p0 1470 ± 1.11
1700
1650
1600
1550
1500
1450
1400
1350
1300

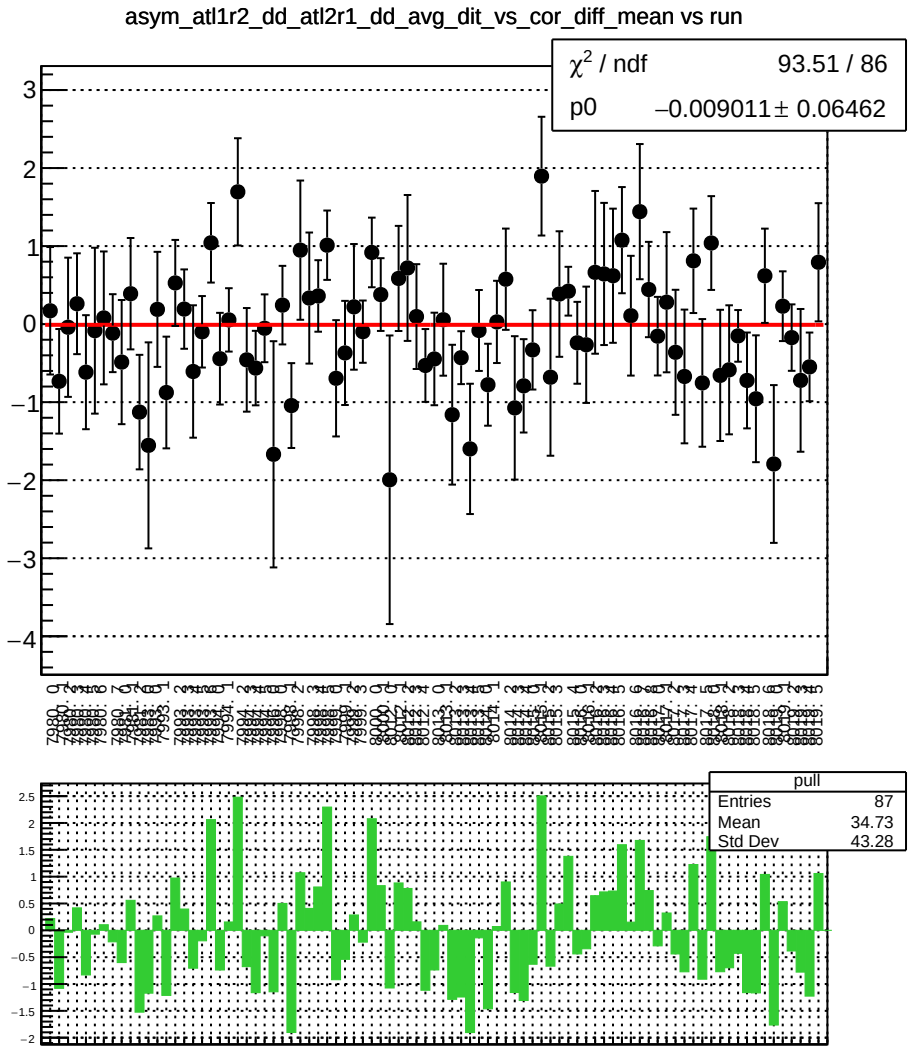

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 114.3 / 86
p0 −3365 ± 2043
×10³
pull
Entries 87
Mean 139.4
Std Dev 0

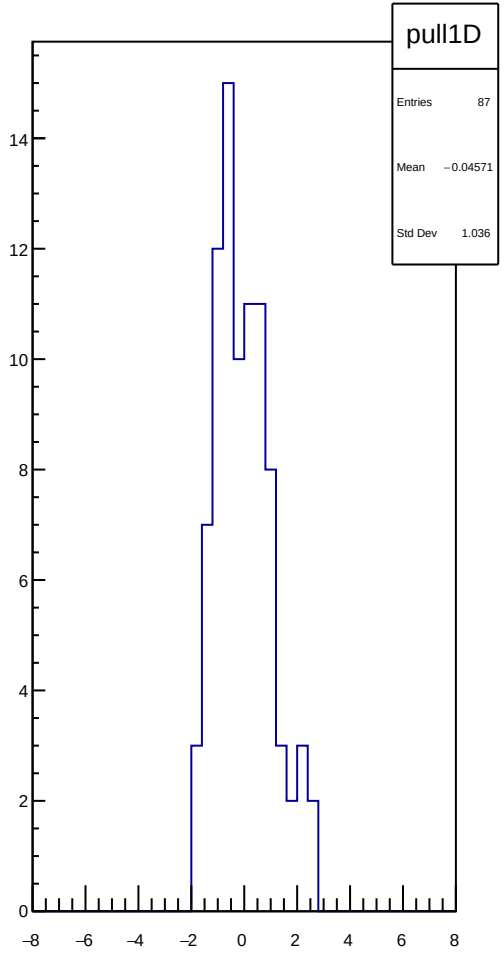

pull1D
Entries 87
Mean −0.01532
Std Dev 1.146

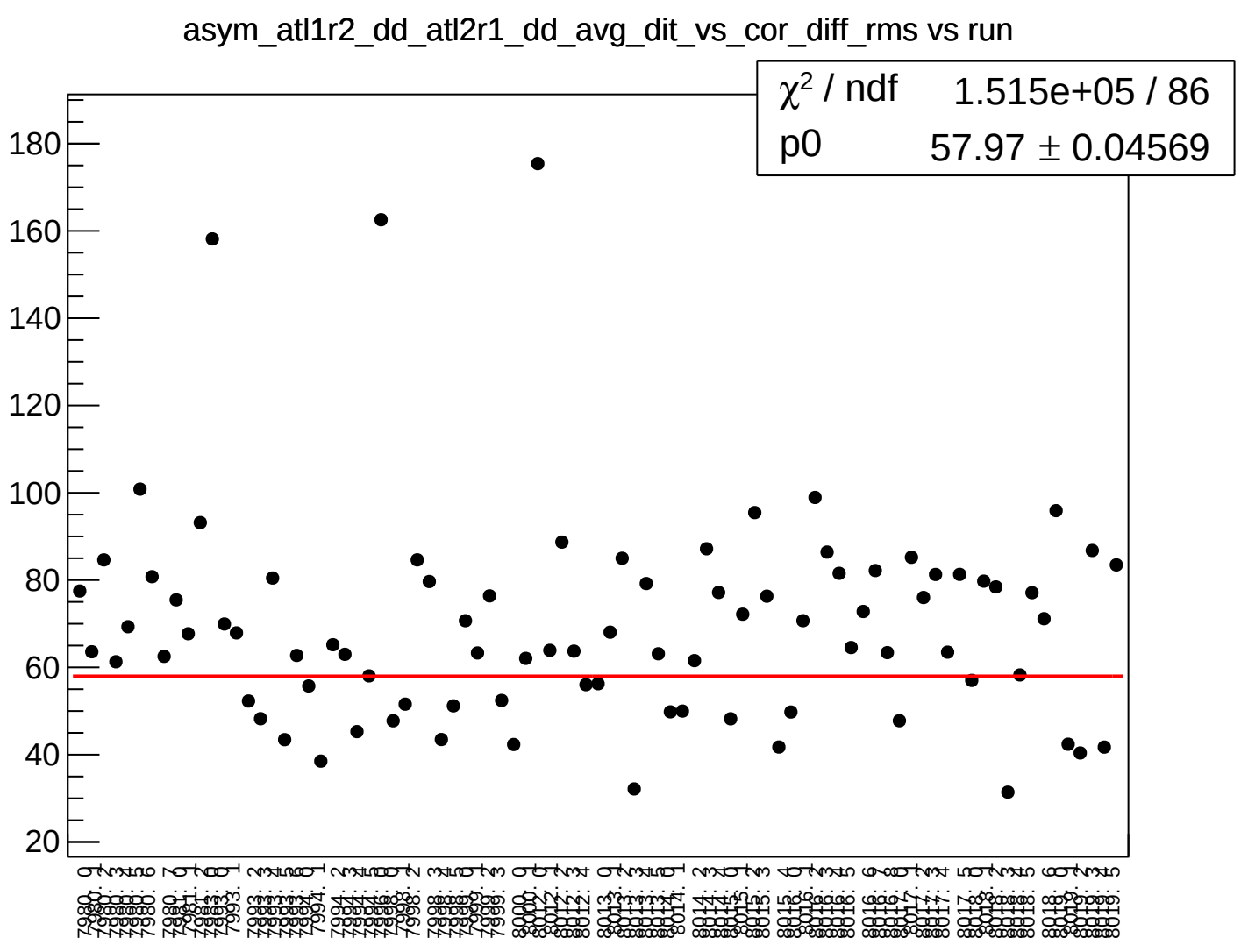

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2385 / 86
p0 1916 ± 1.445
2100
2050
2000
1950
1900
1850
1800
1750

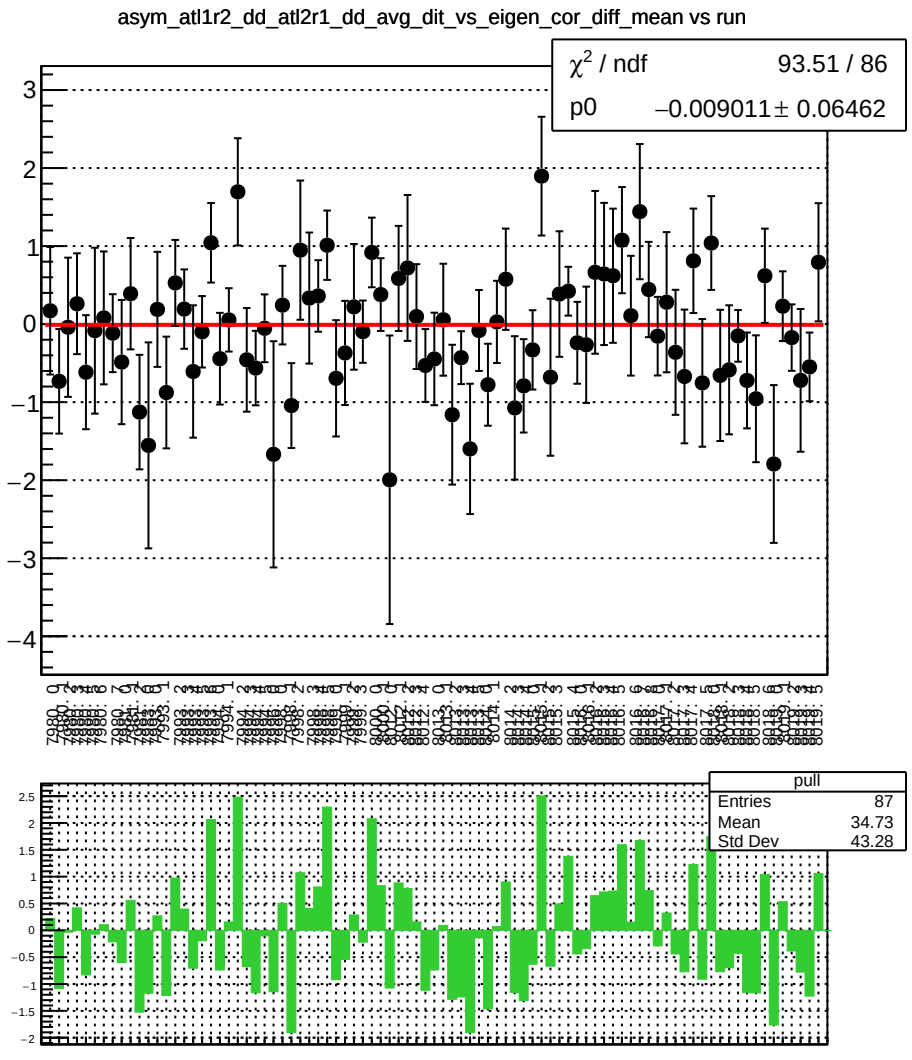

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.14 / 86
p0 7.506e−13 ± 2.177e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 1376
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.002395
Std Dev 0.9598
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

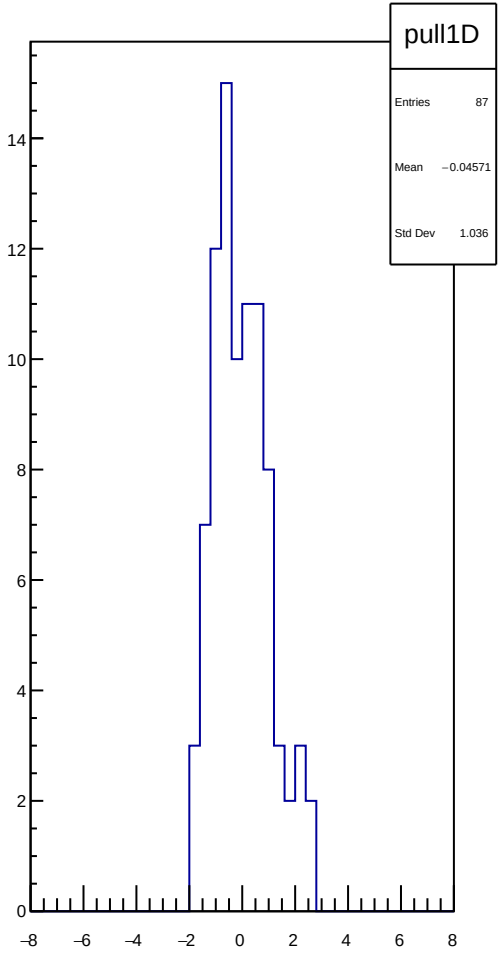

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.16e+06 / 86
p0 1.192e−10 ± 1.539e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

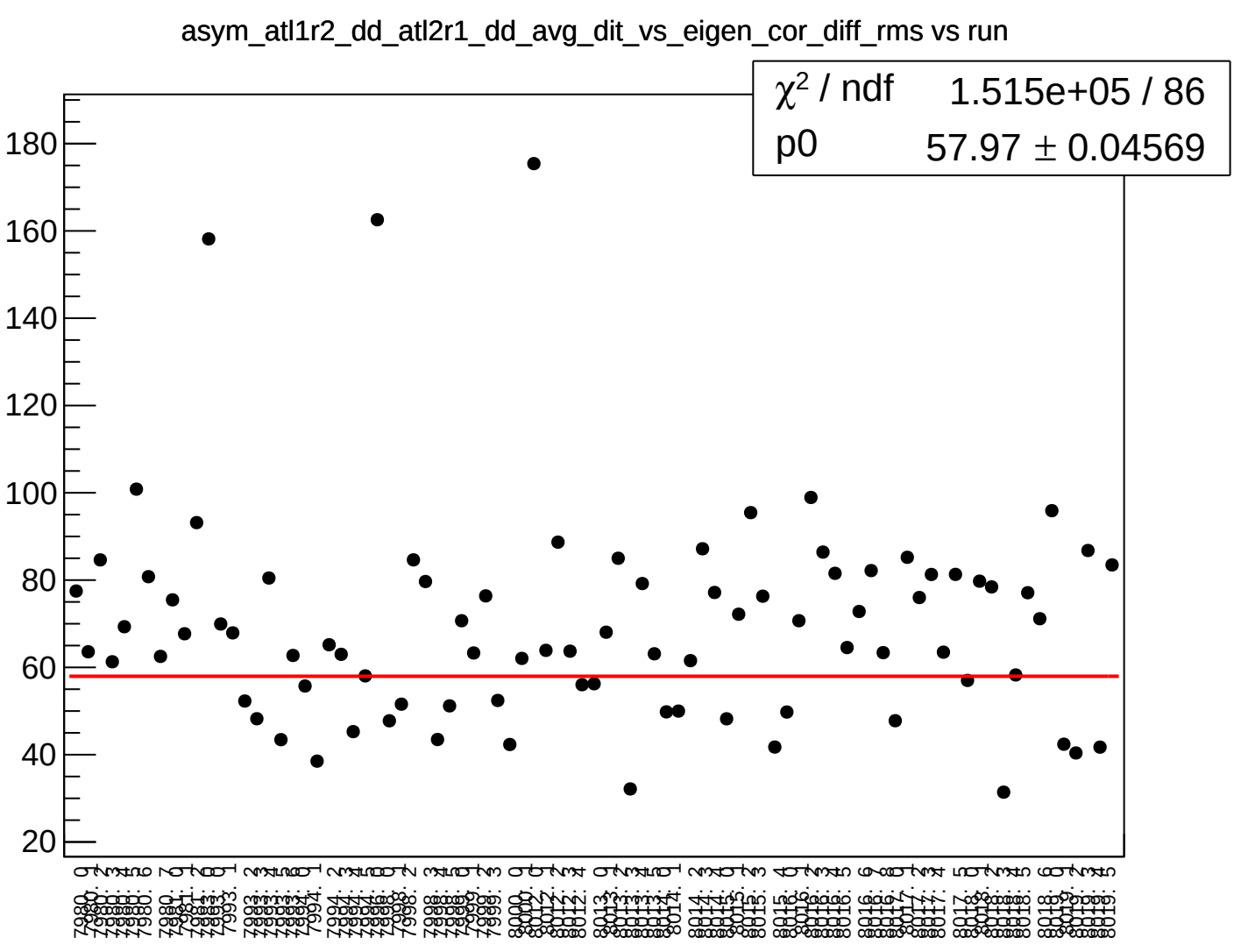

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.51 / 86
p0 −0.009011 ± 0.06462
pull
Entries 87
Mean 34.73
Std Dev 43.28

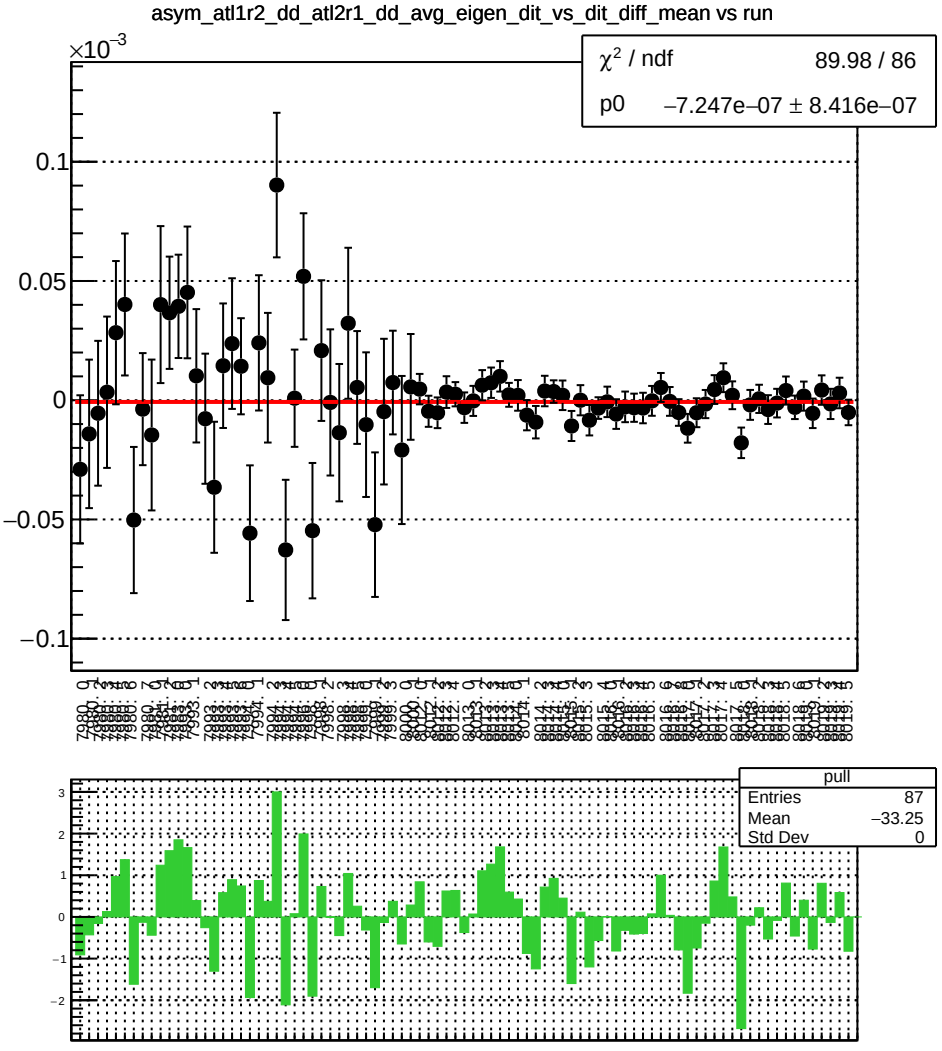

pull1D
Entries 87
Mean −0.04571
Std Dev 1.036

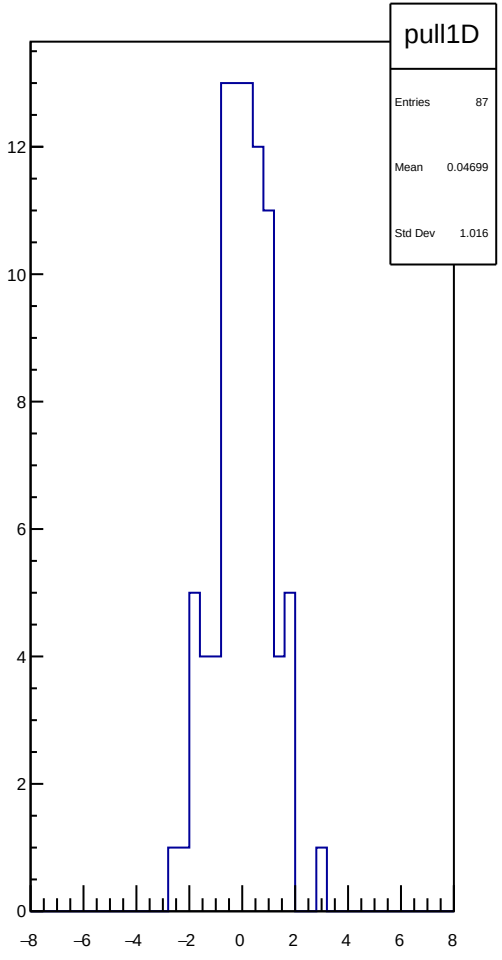

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.515e+05 / 86
p0 57.97 ± 0.04569
180
160
140
120
100
80
60
40
20

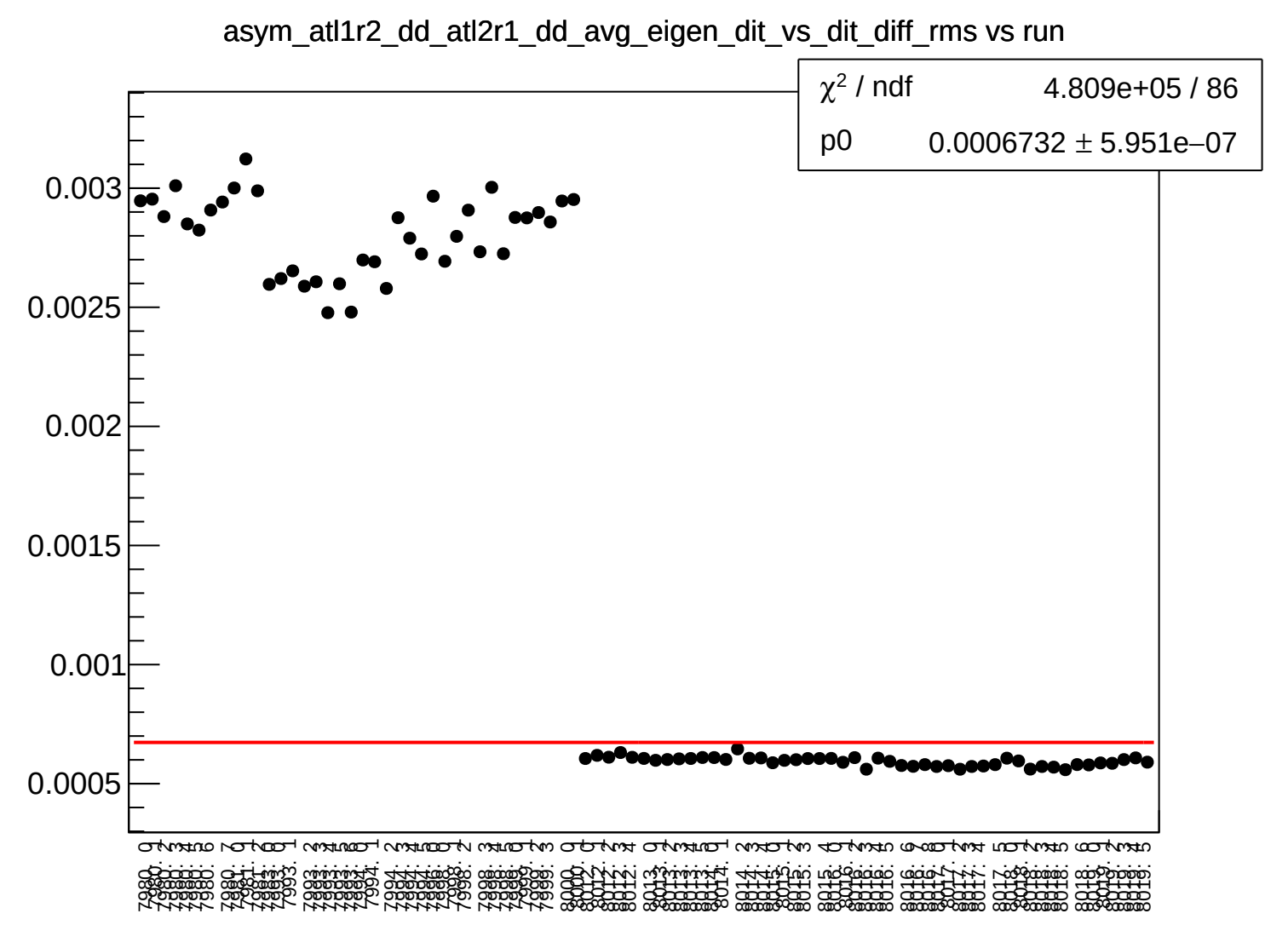

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.51 / 86
p0 −0.009011 ± 0.06462
pull
Entries 87
Mean 34.73
Std Dev 43.28

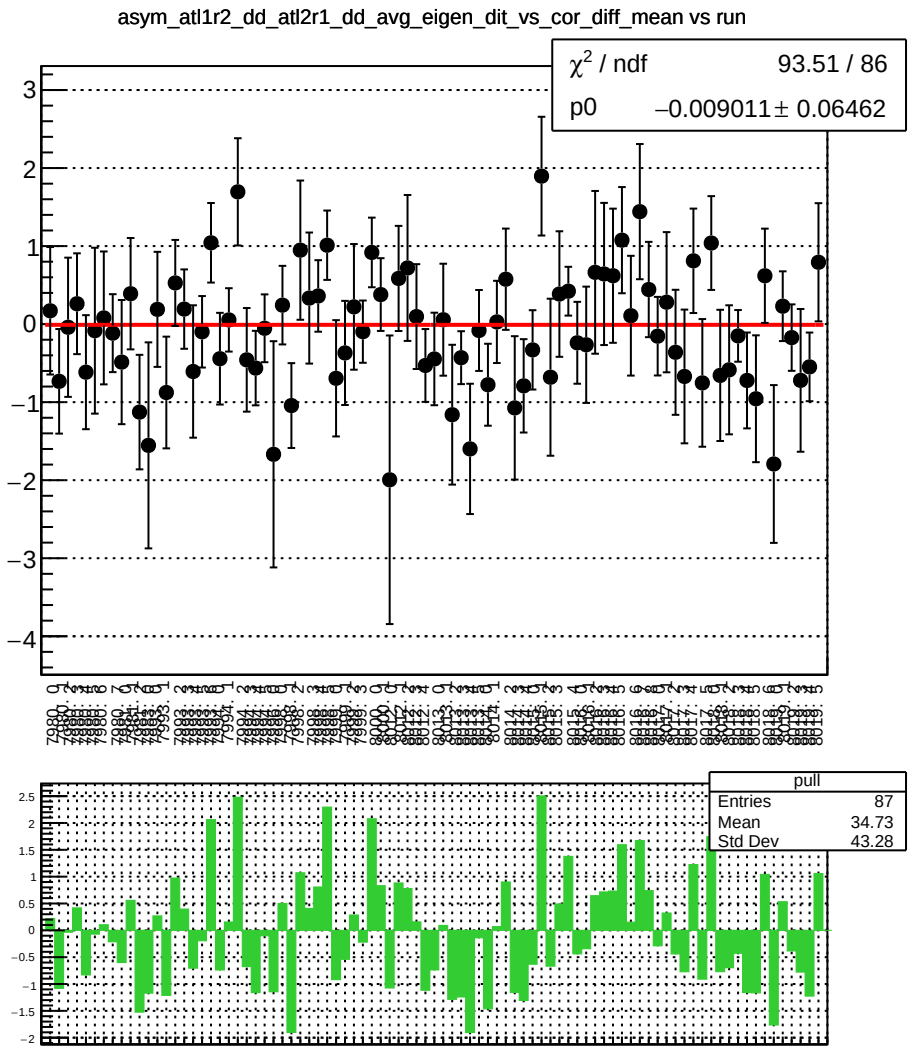

pull1D
Entries 87
Mean −0.04571
Std Dev 1.036

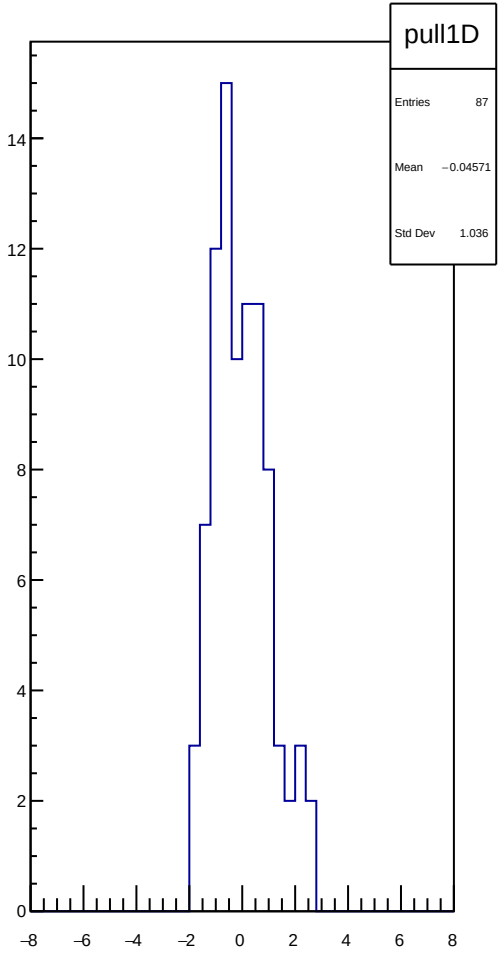

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.515e+05 / 86
p0 57.97 ± 0.04569
180
160
140
120
100
80
60
40
20

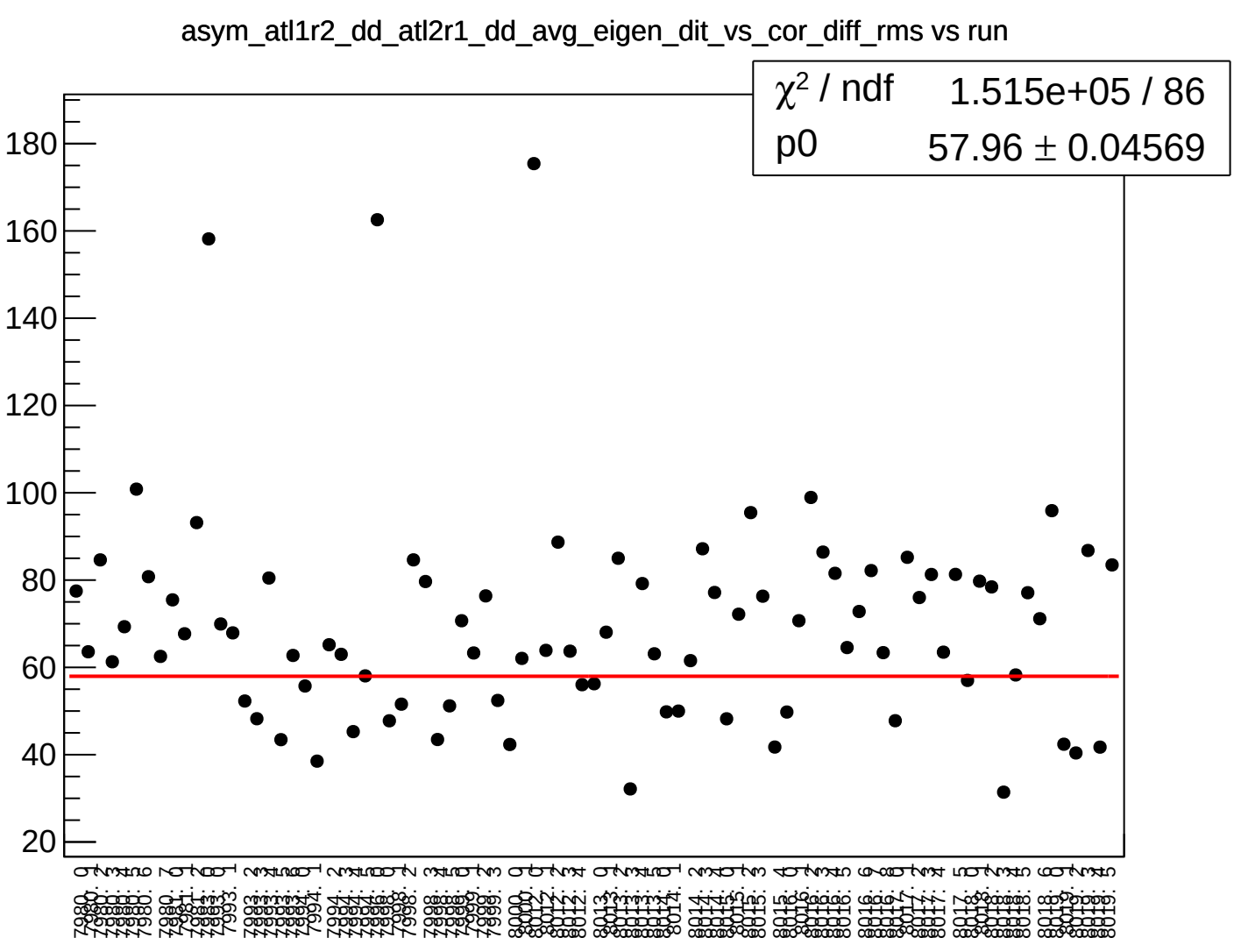

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.98 / 86
p0 −7.247e−07 ± 8.416e−07
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean −33.25
Std Dev 0
3
2
1
0
−1
−2

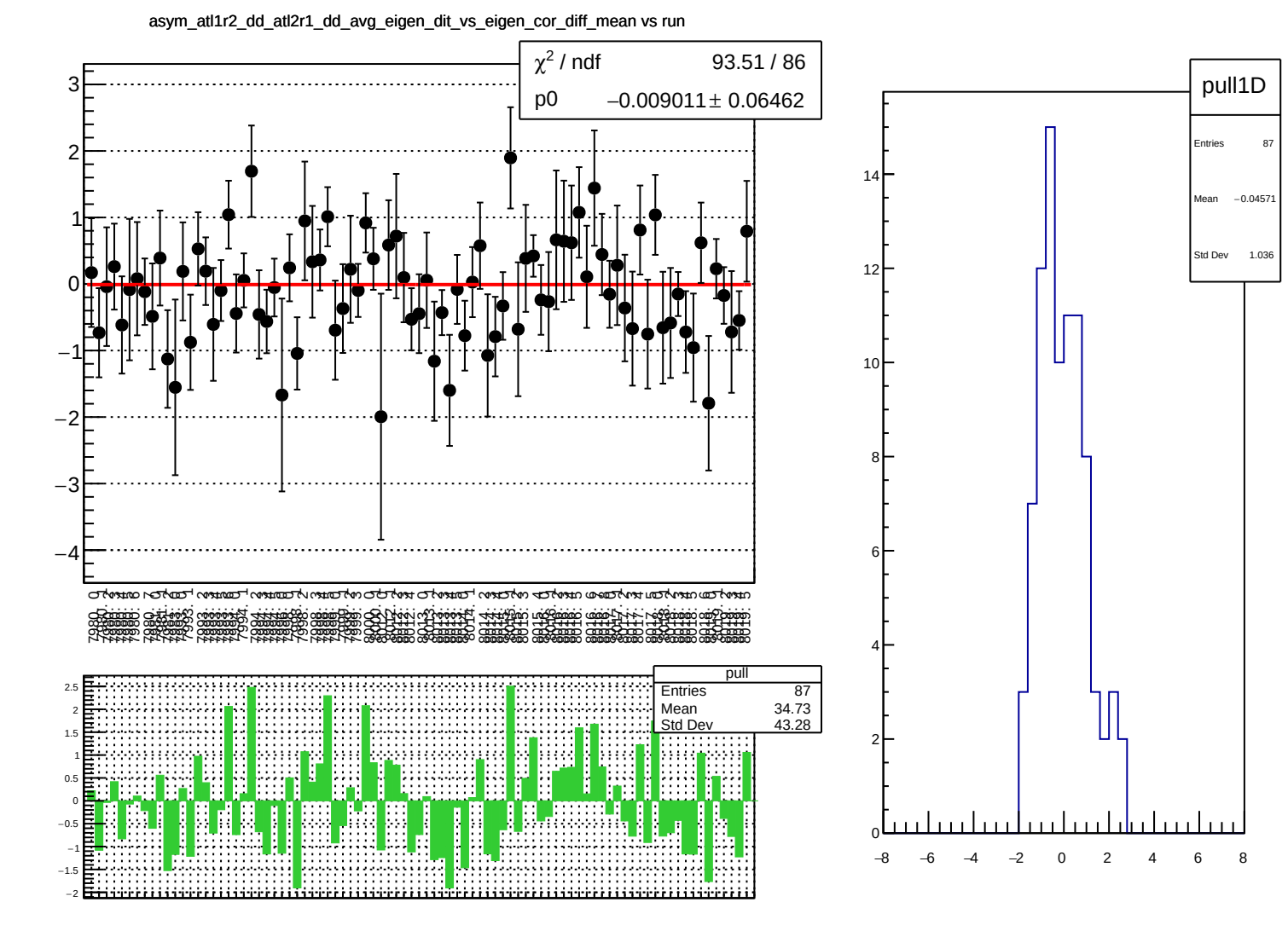

pull1D
Entries 87
Mean 0.04699
Std Dev 1.016
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

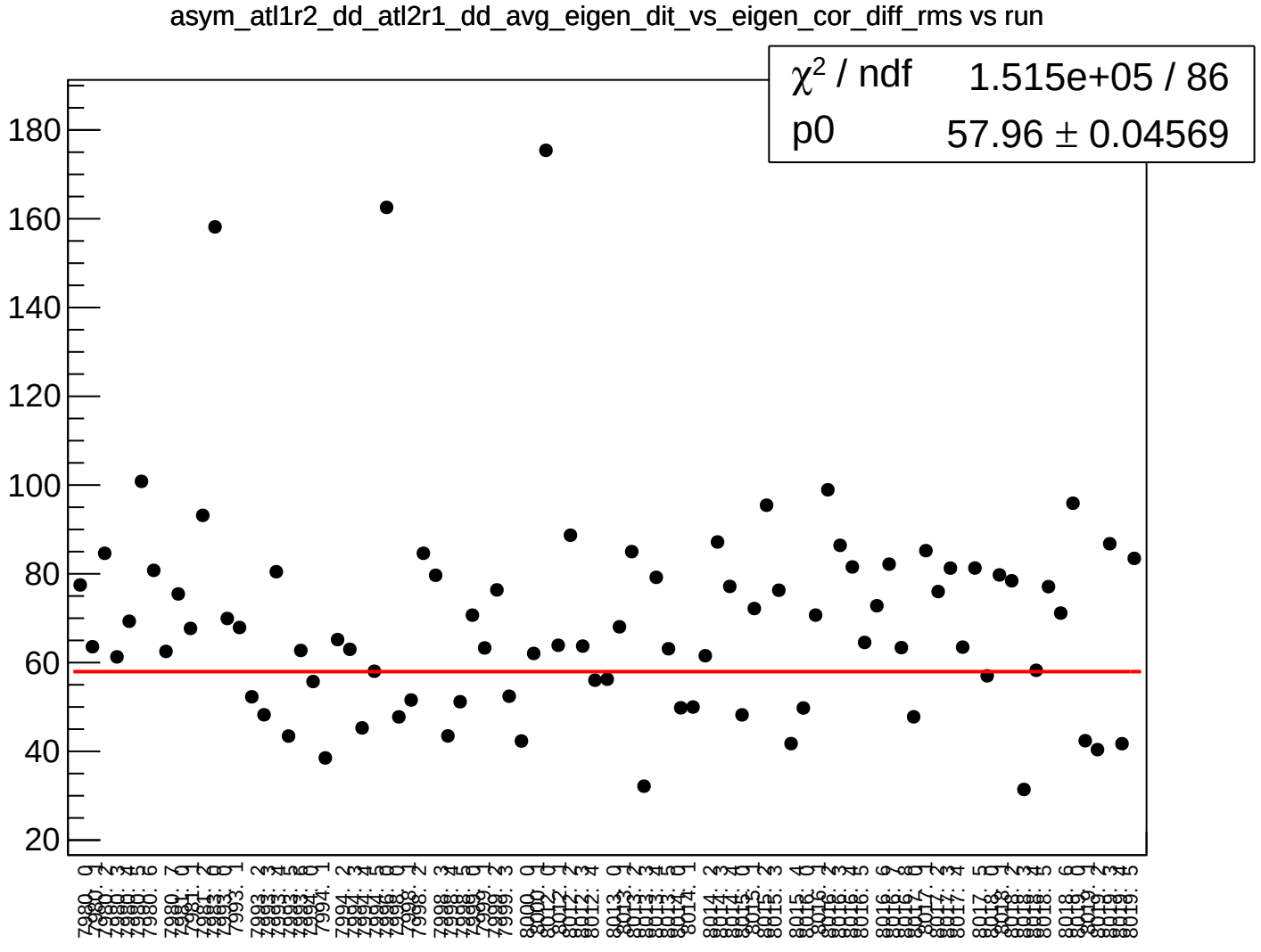

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.809e+05 / 86
p0 0.0006732 ± 5.951e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

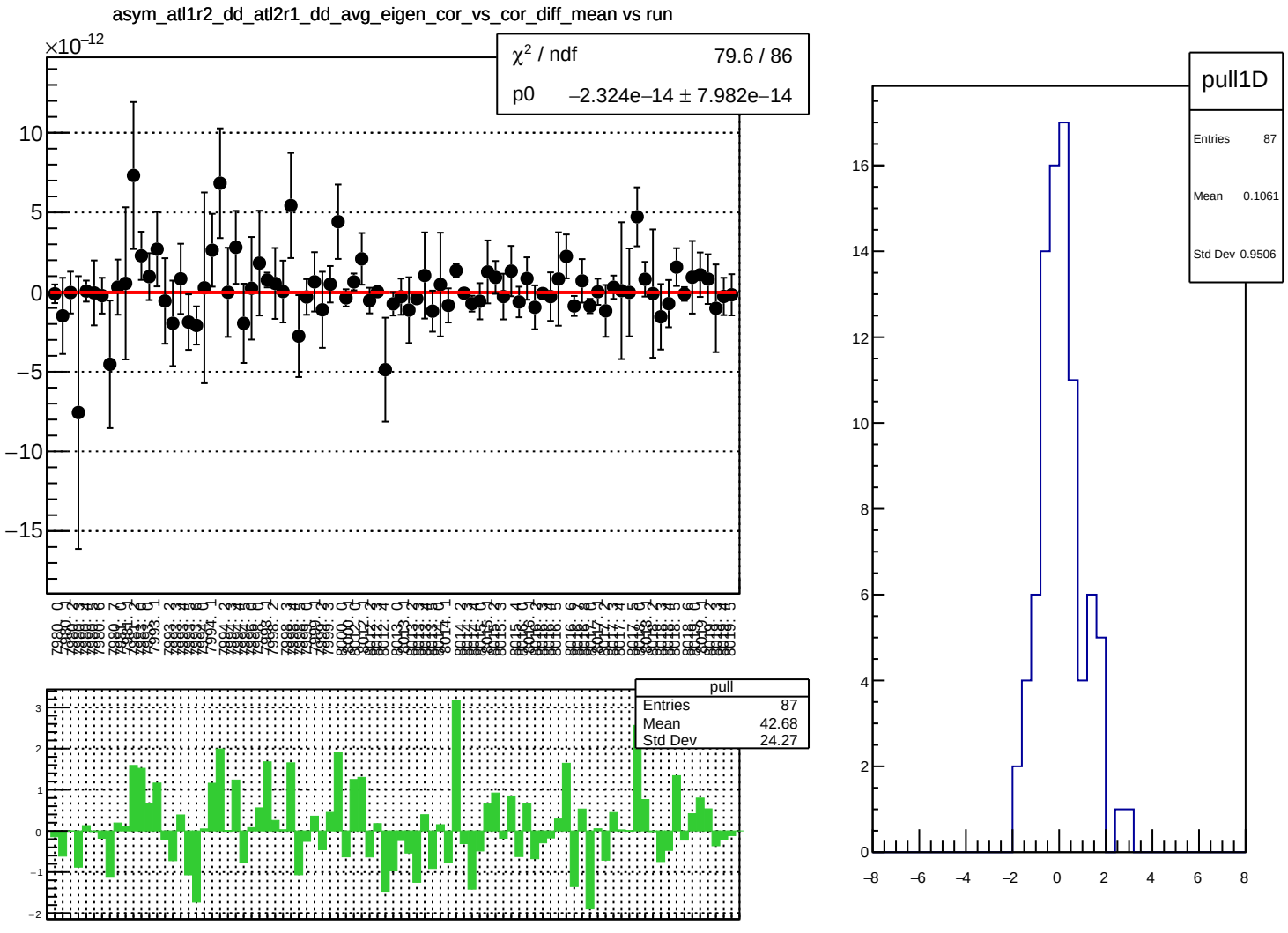

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.51 / 86
p0 −0.009011 ± 0.06462
pull
Entries 87
Mean 34.73
Std Dev 43.28

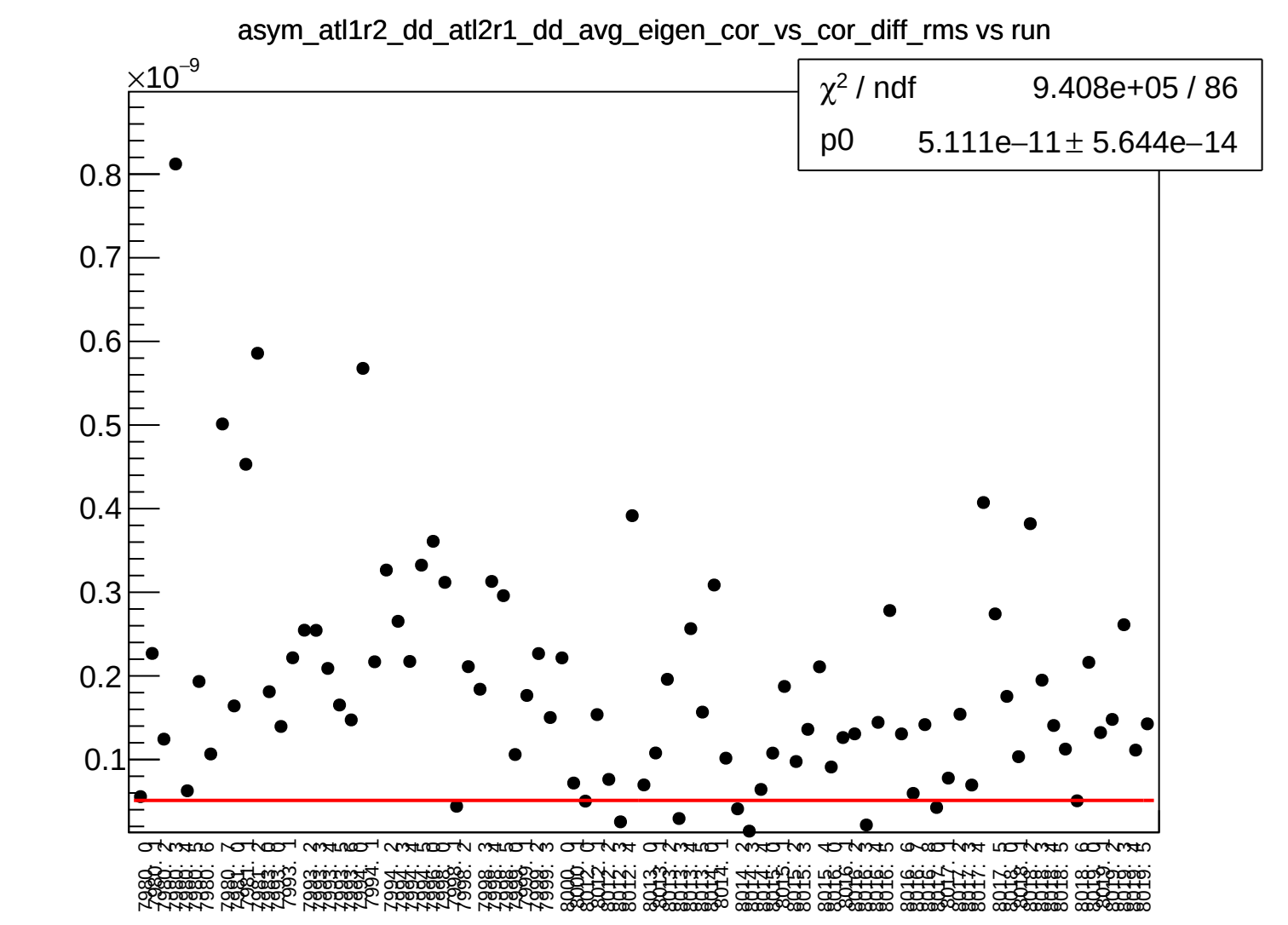

pull1D
Entries 87
Mean −0.04571
Std Dev 1.036

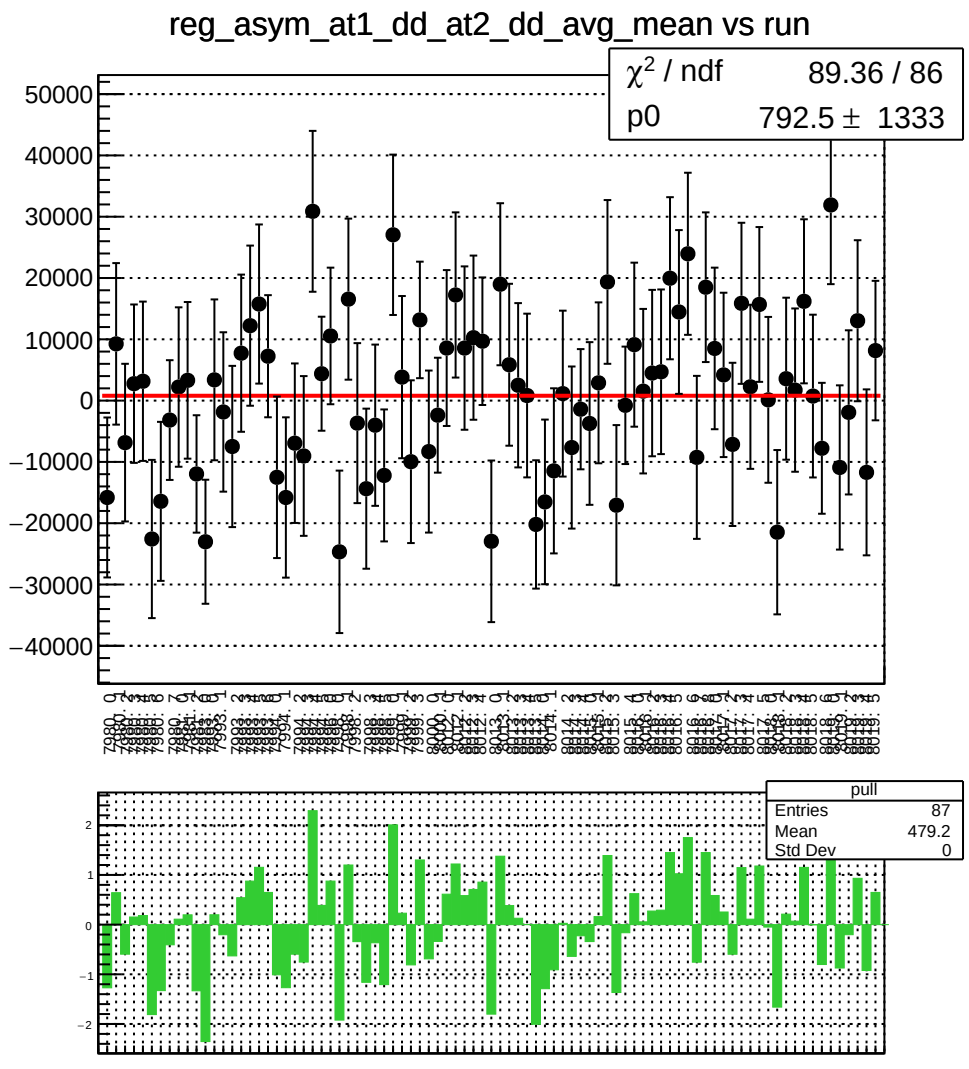

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.515e+05 / 86
p0 57.96 ± 0.04569
180
160
140
120
100
80
60
40
20

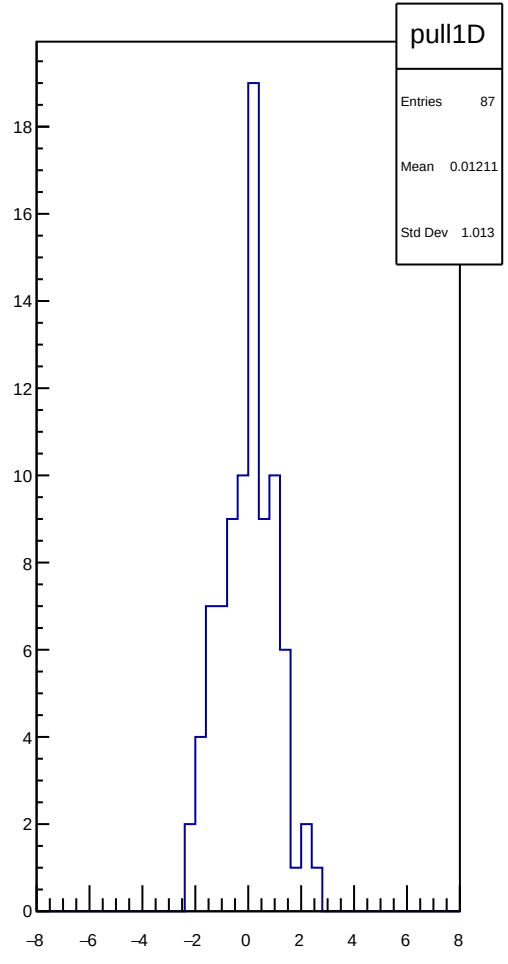

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.51 / 86
p0 −0.009011 ± 0.06462
pull
Entries 87
Mean 34.73
Std Dev 43.28
pull1D
Entries 87
Mean −0.04571
Std Dev 1.036

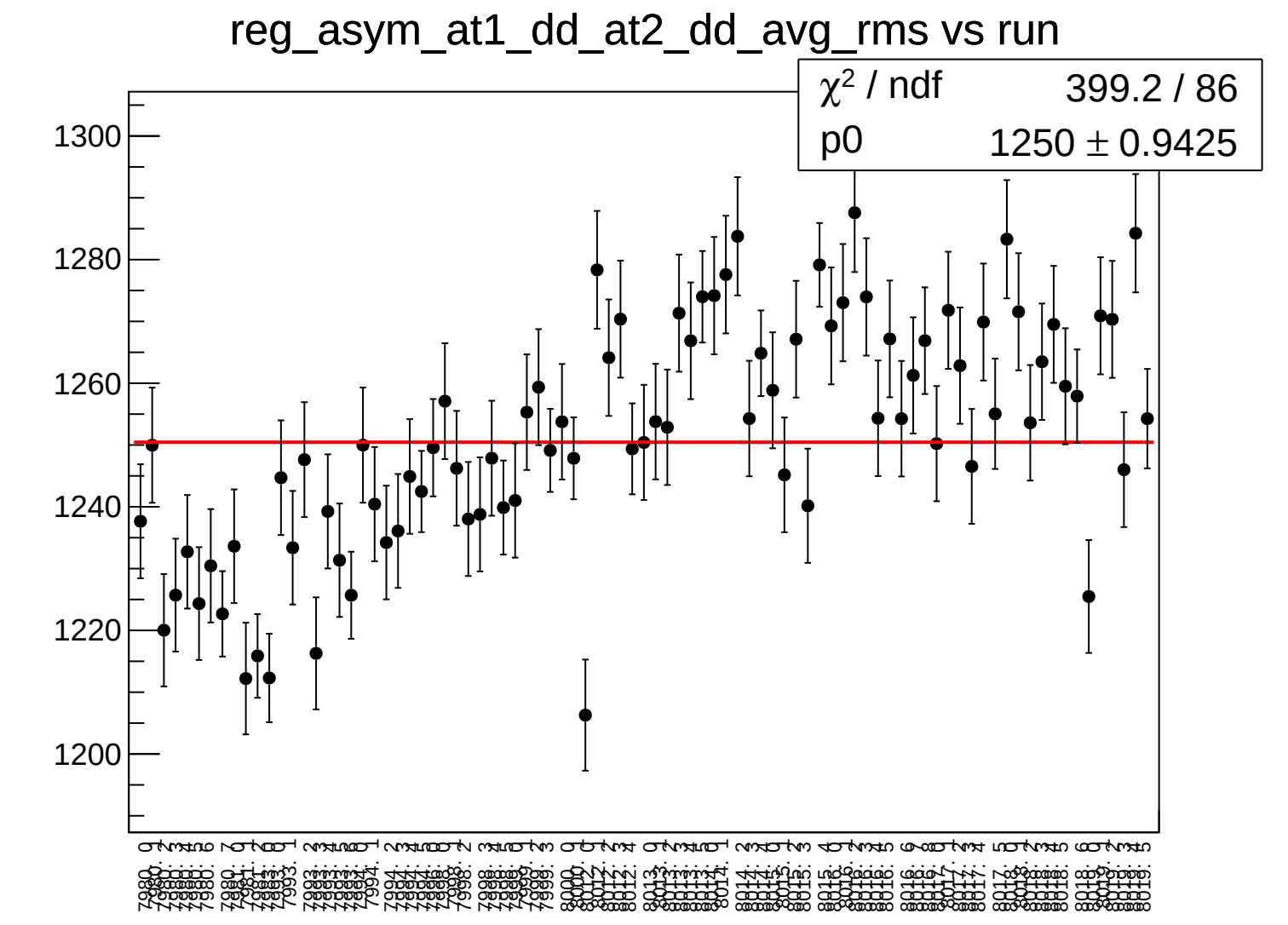

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.515e+05 / 86
p0 57.96 ± 0.04569
180
160
140
120
100
80
60
40
20

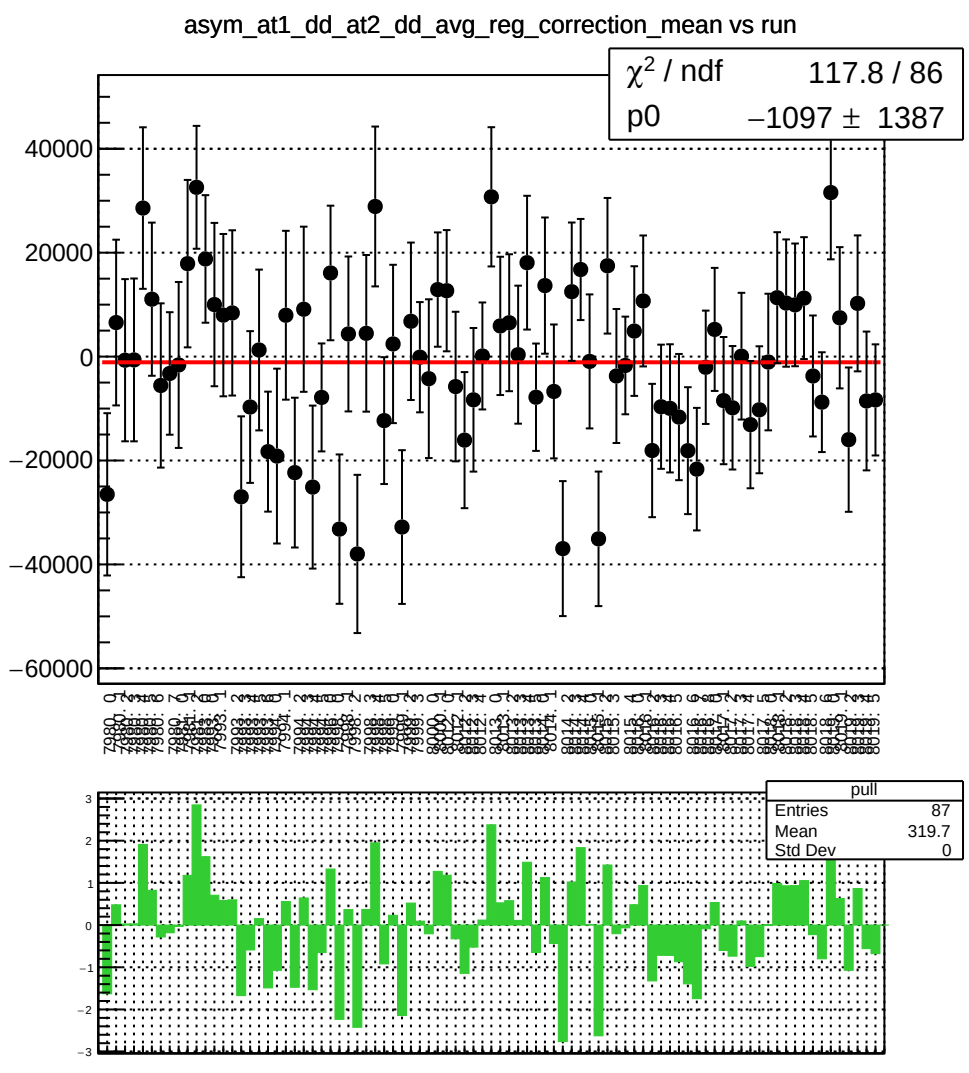

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 79.6 / 86
p0 −2.324e−14 ± 7.982e−14
pull
Entries 87
Mean 42.68
Std Dev 24.27
pull1D
Entries 87
Mean 0.1061
Std Dev 0.9506

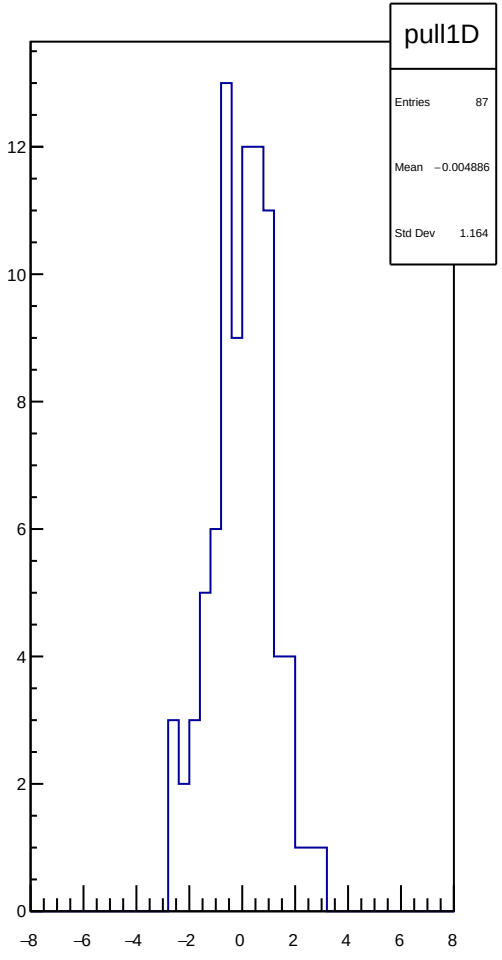

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.408e+05 / 86
p0 5.111e−11 ± 5.644e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

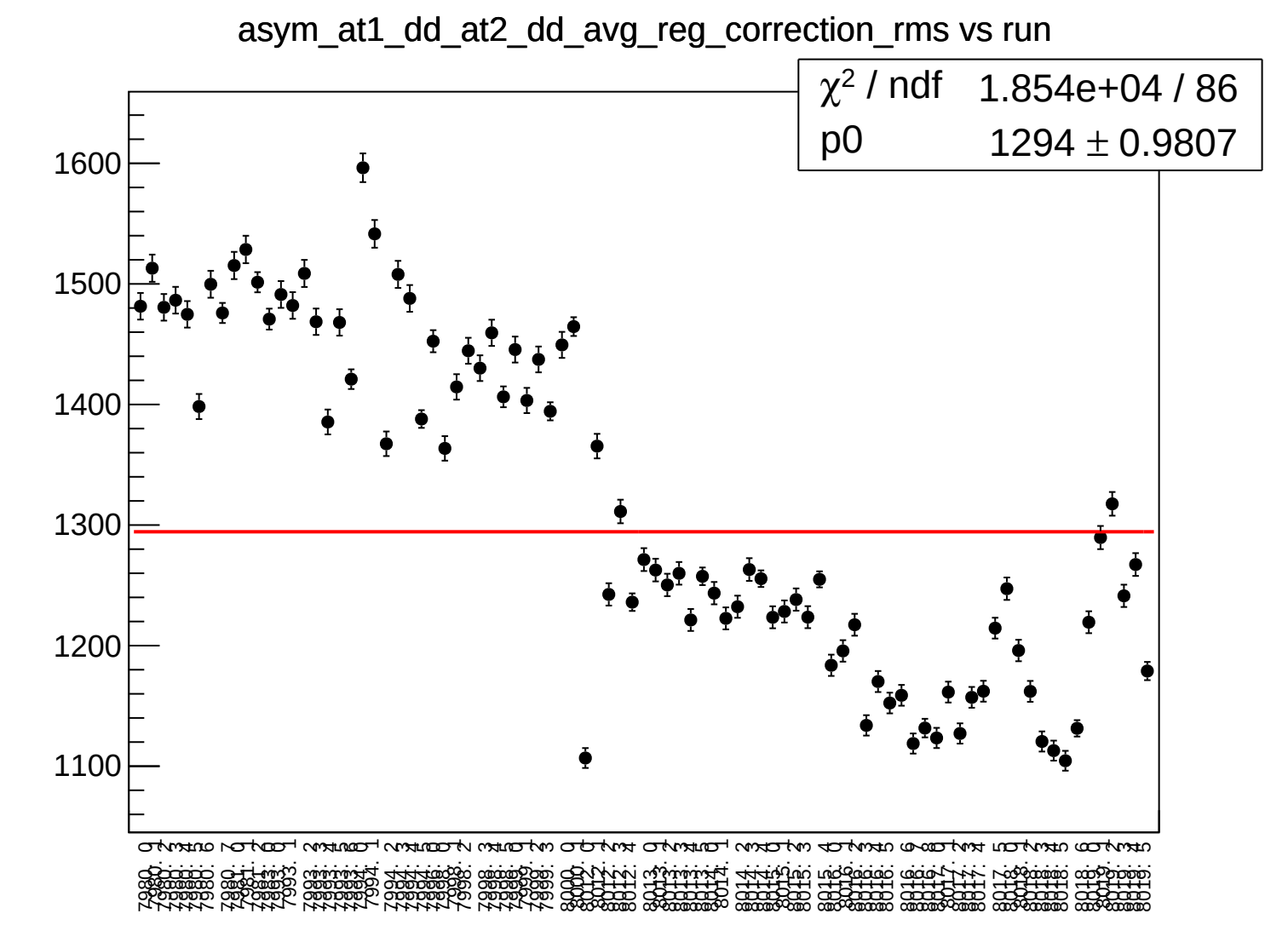

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.36 / 86
p0 792.5 ± 1333
pull
Entries 87
Mean 479.2
Std Dev 0

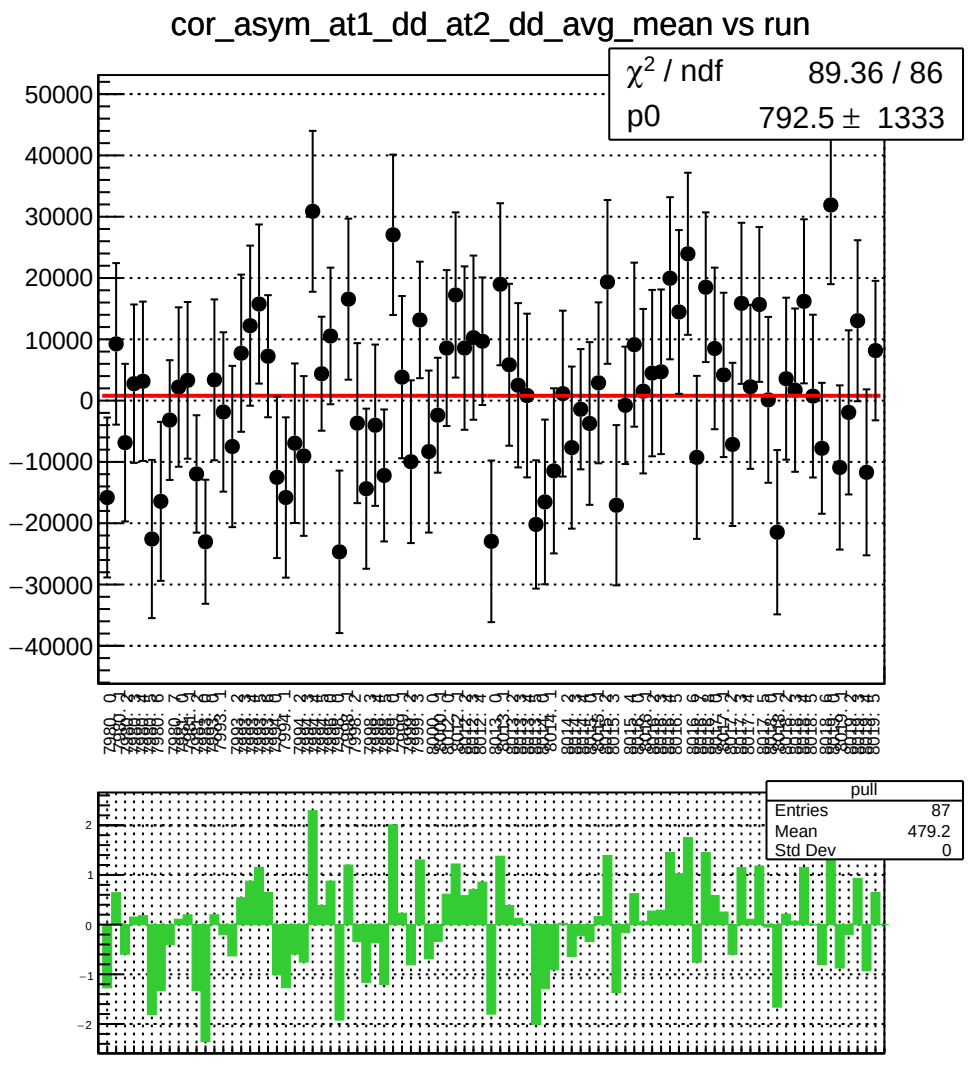

pull1D
Entries 87
Mean 0.01211
Std Dev 1.013

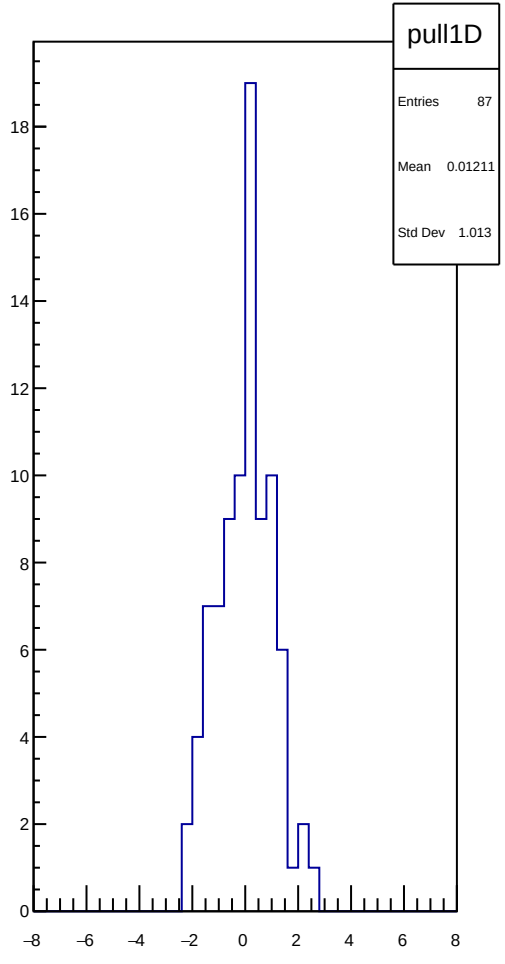

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 399.2 / 86
p0 1250 ± 0.9425
1300
1280
1260
1240
1220
1200

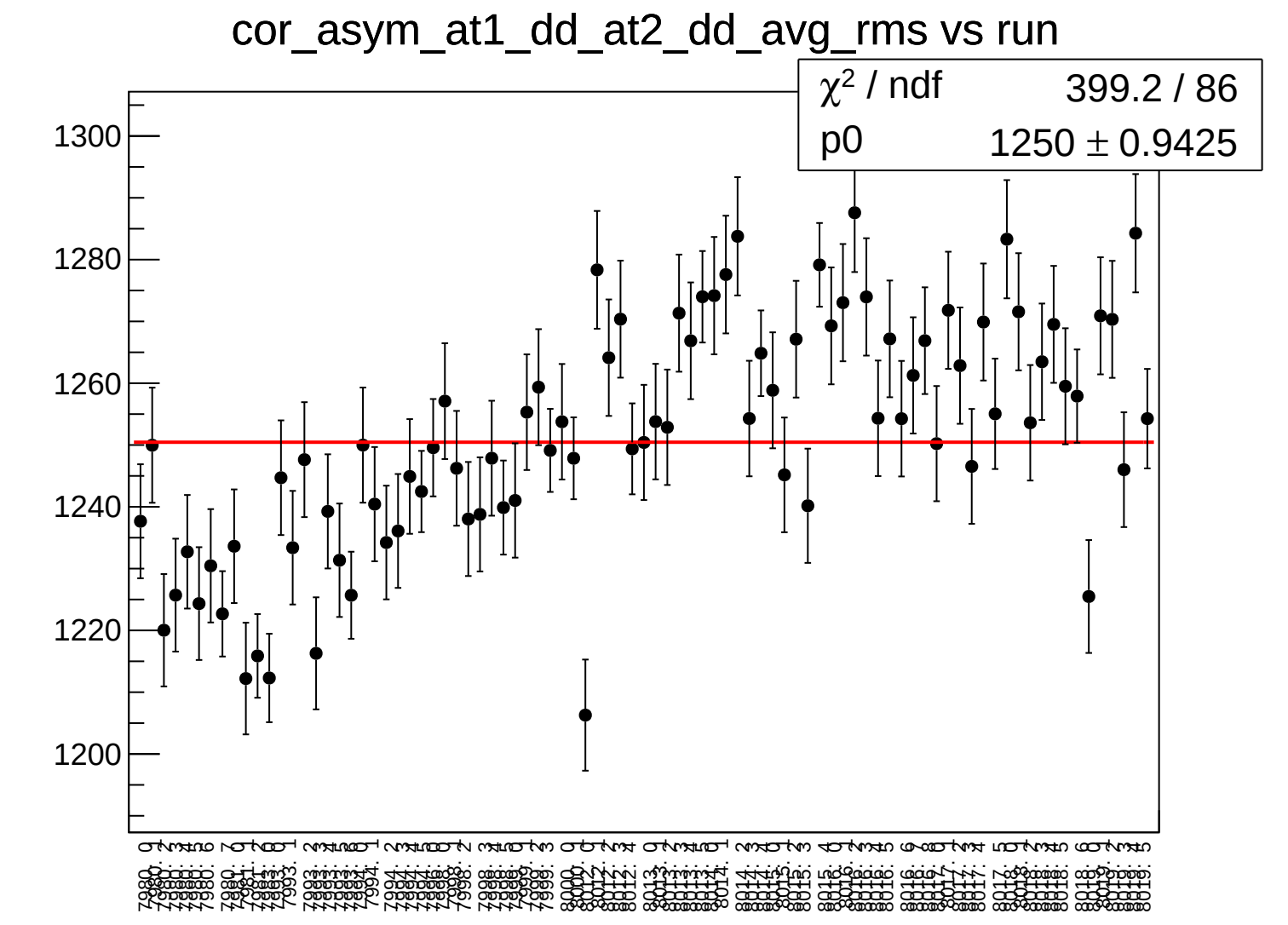

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 117.8 / 86
p0 −1097 ± 1387
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 319.7
Std Dev 0
3
2
1
0
−1
−2
−3

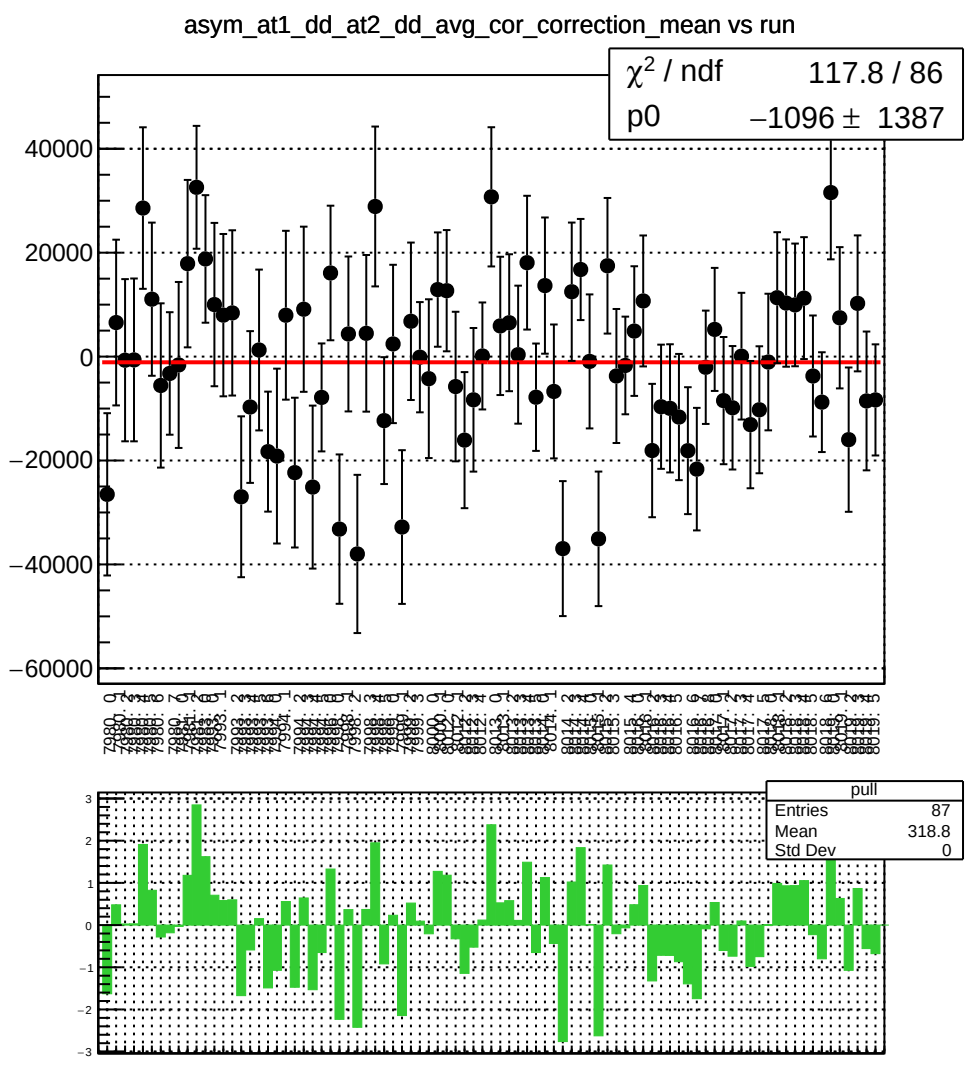

pull1D
Entries 87
Mean −0.004886
Std Dev 1.164
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

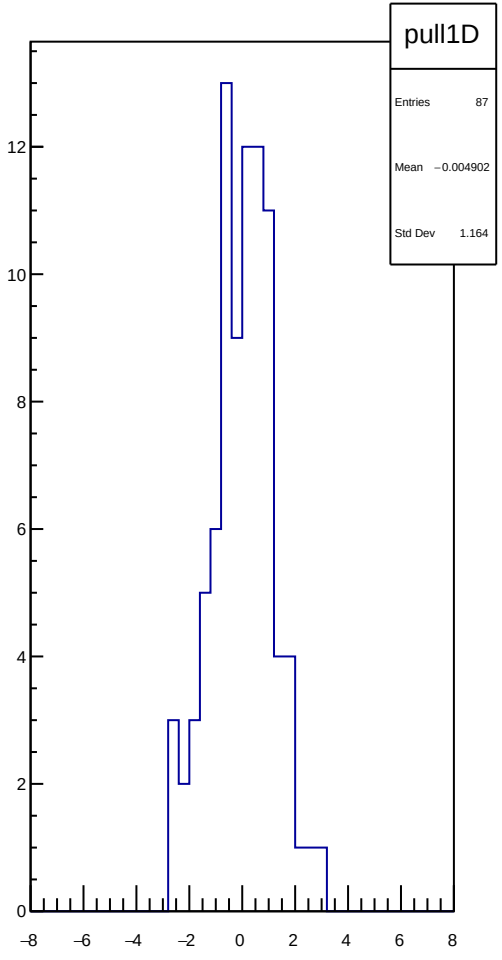

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.854e+04 / 86
p0 1294 ± 0.9807
1600
1500
1400
1300
1200
1100

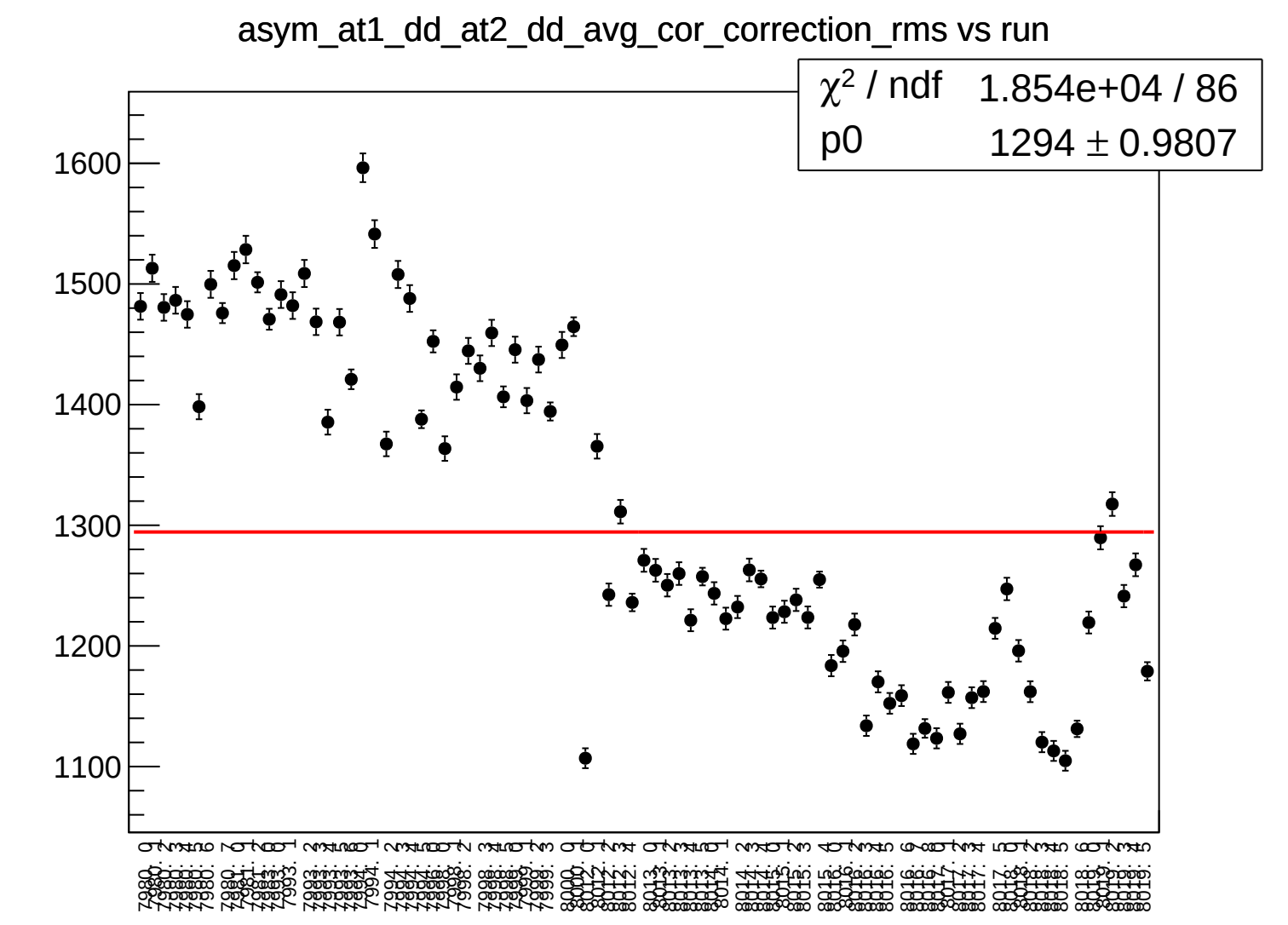

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.36 / 86
p0 792.5 ± 1333
pull
Entries 87
Mean 479.2
Std Dev 0

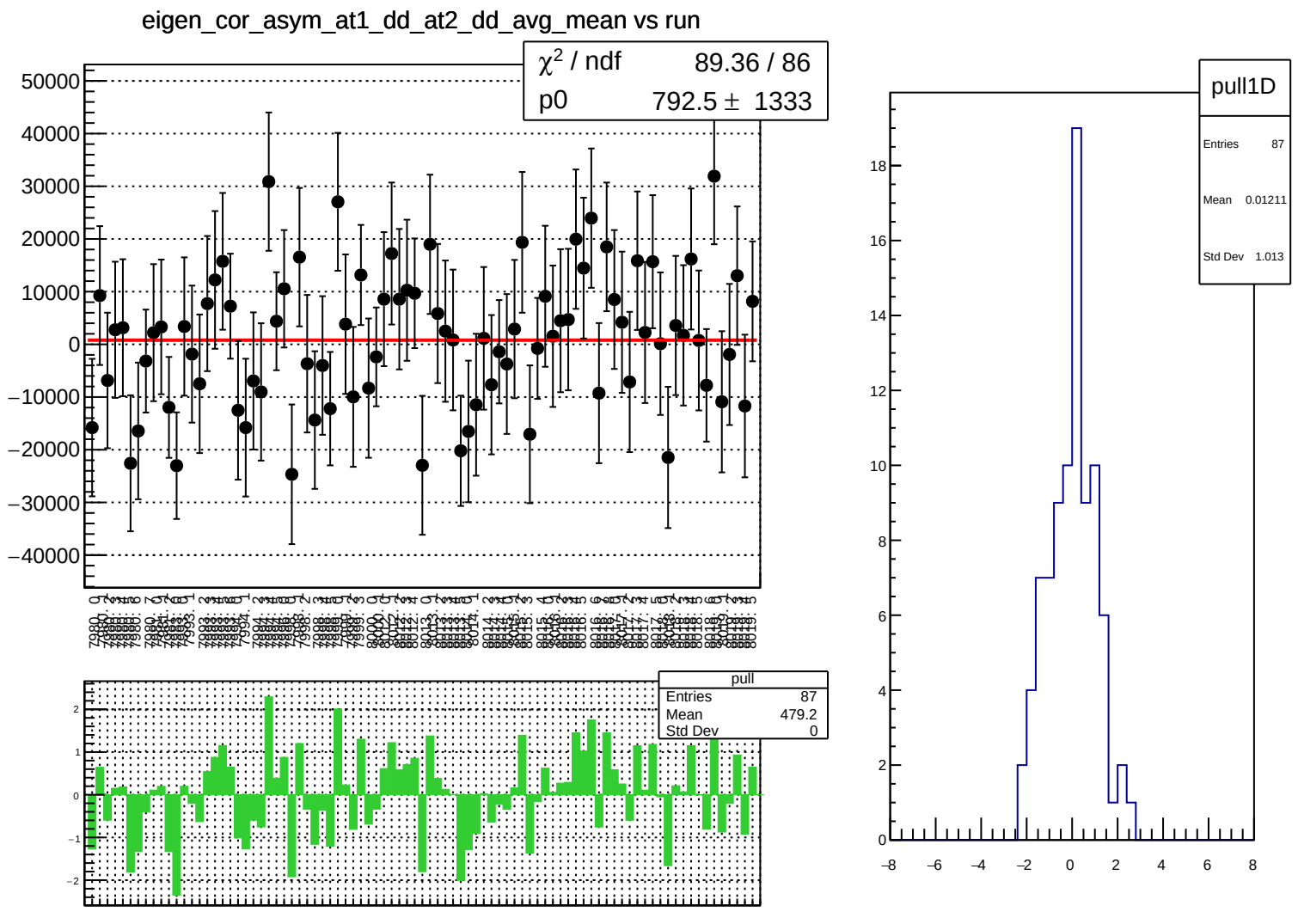

pull1D
Entries 87
Mean 0.01211
Std Dev 1.013

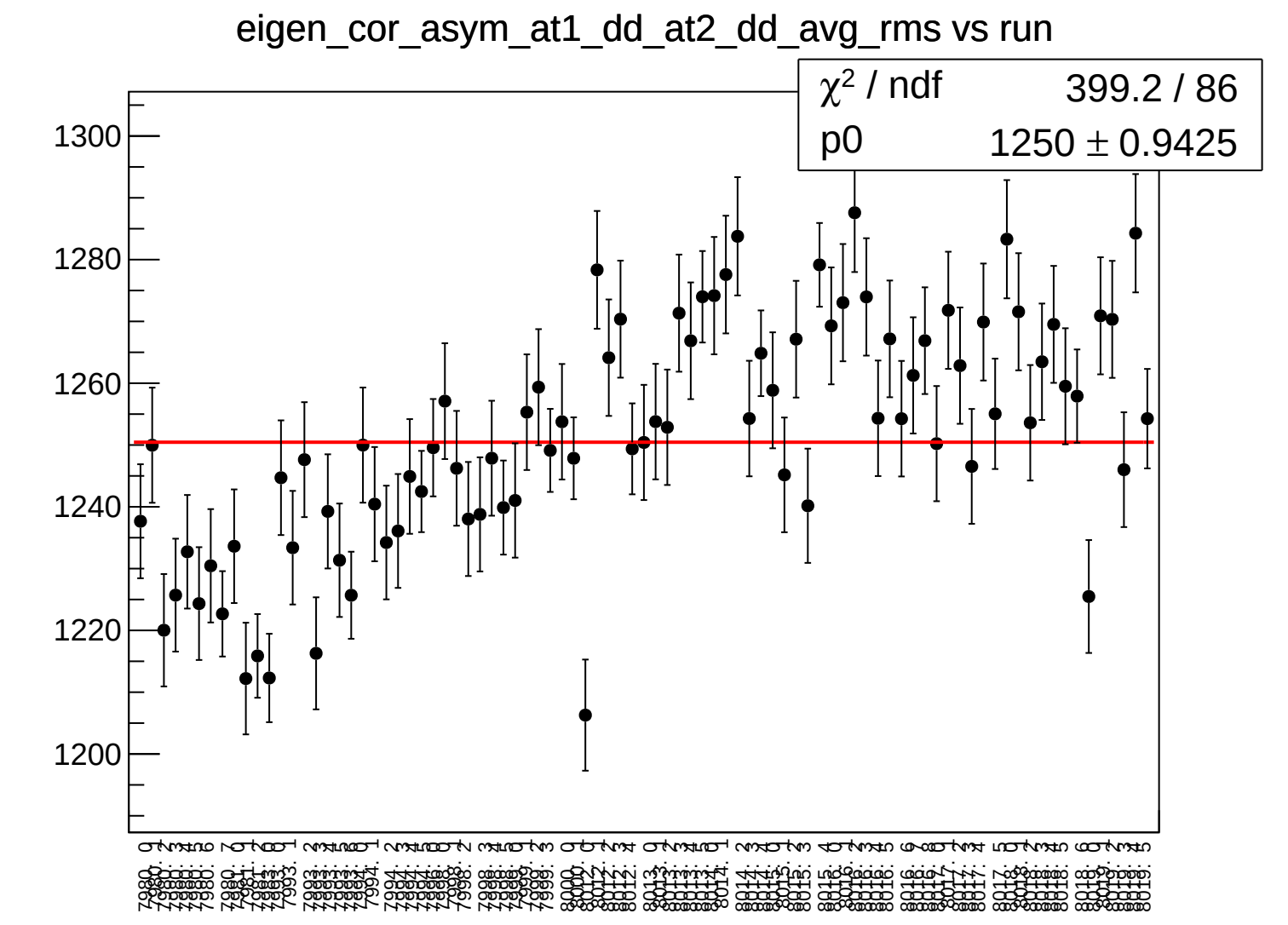

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 399.2 / 86
p0 1250 ± 0.9425
1300
1280
1260
1240
1220
1200

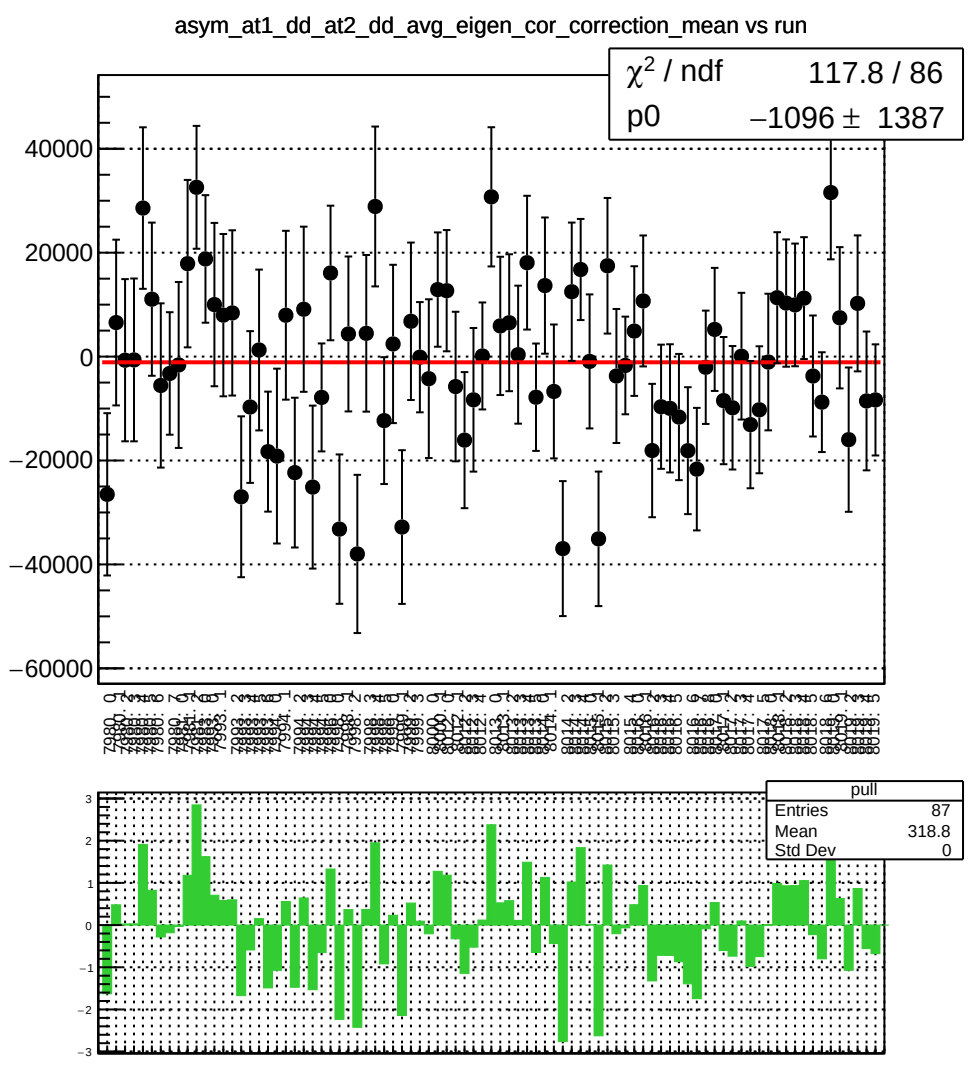

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 117.8 / 86
p0 −1096 ± 1387
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 318.8
Std Dev 0
3
2
1
0
−1
−2
−3

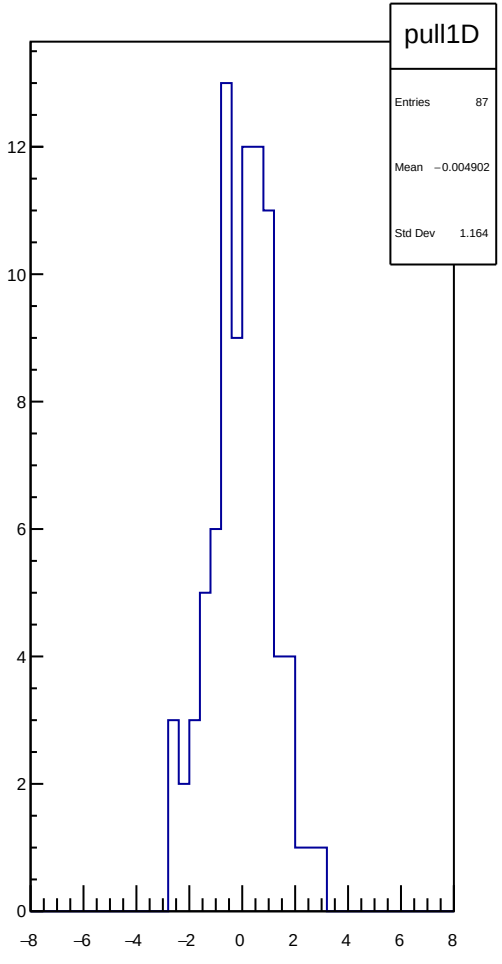

pull1D
Entries 87
Mean −0.004902
Std Dev 1.164
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

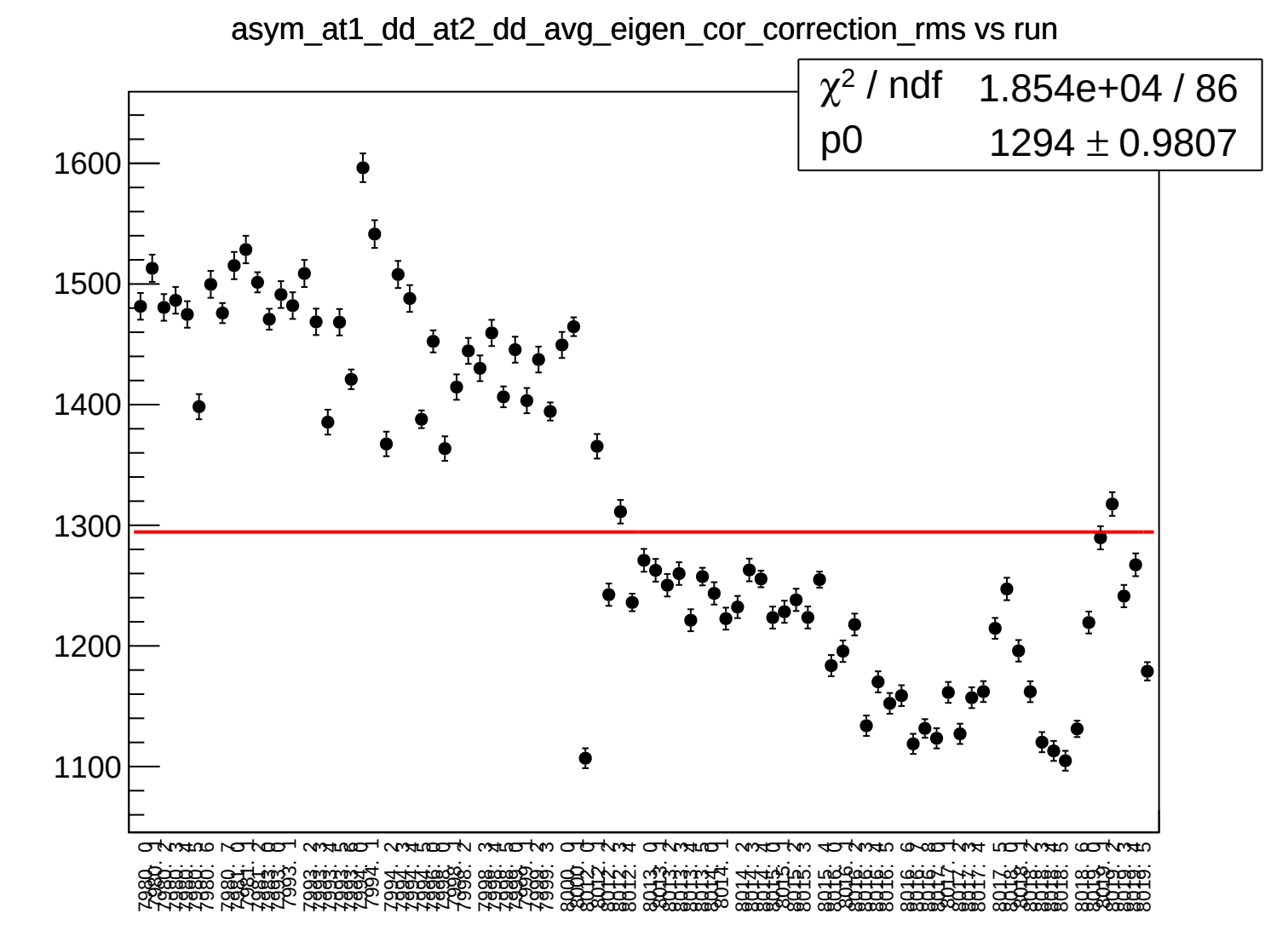

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.854e+04 / 86
p0 1294 ± 0.9807
1600
1500
1400
1300
1200
1100

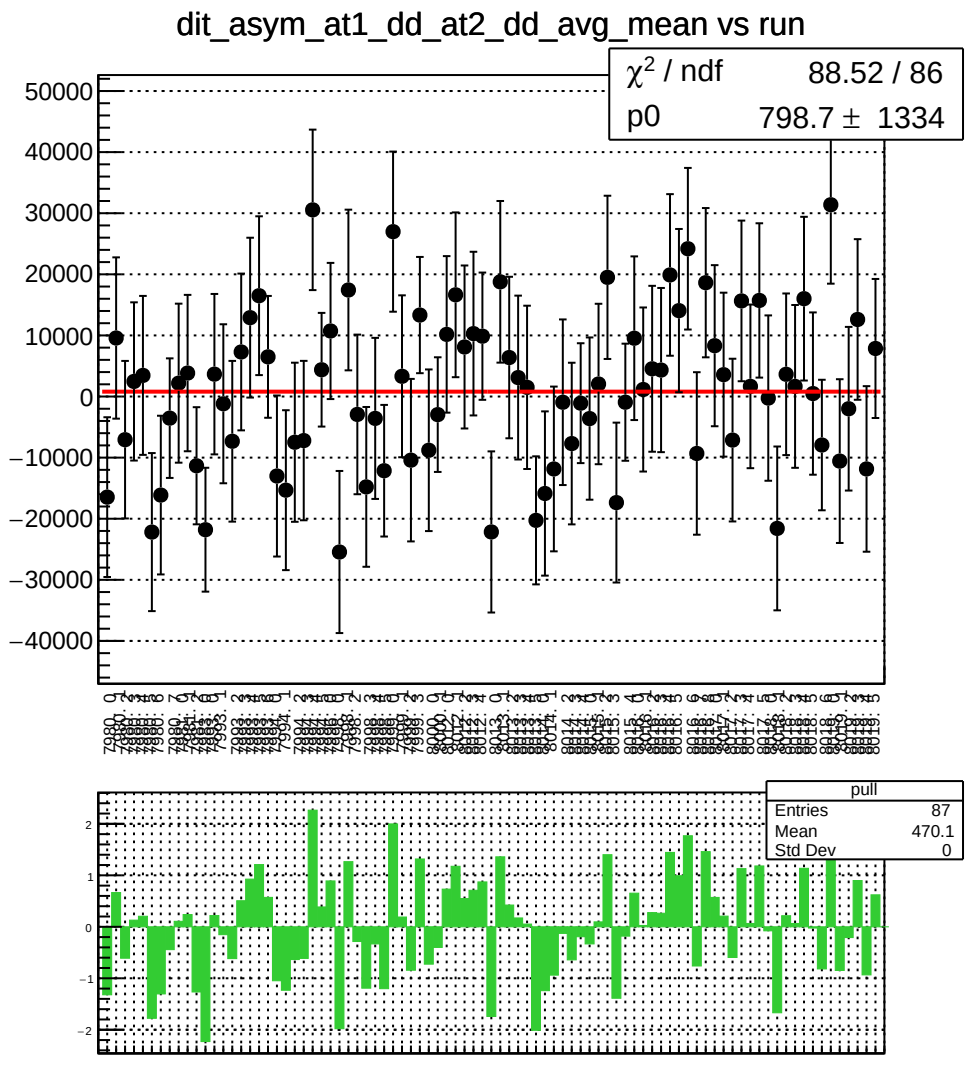

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.36 / 86
p0 792.5 ± 1333
pull
Entries 87
Mean 479.2
Std Dev 0
pull1D
Entries 87
Mean 0.01211
Std Dev 1.013

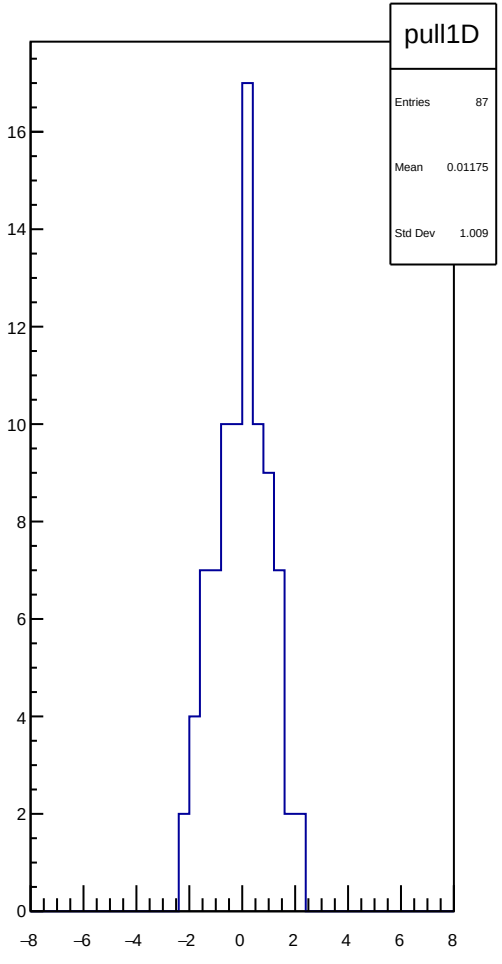

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 399.2 / 86
p0 1250 ± 0.9425
1300
1280
1260
1240
1220
1200

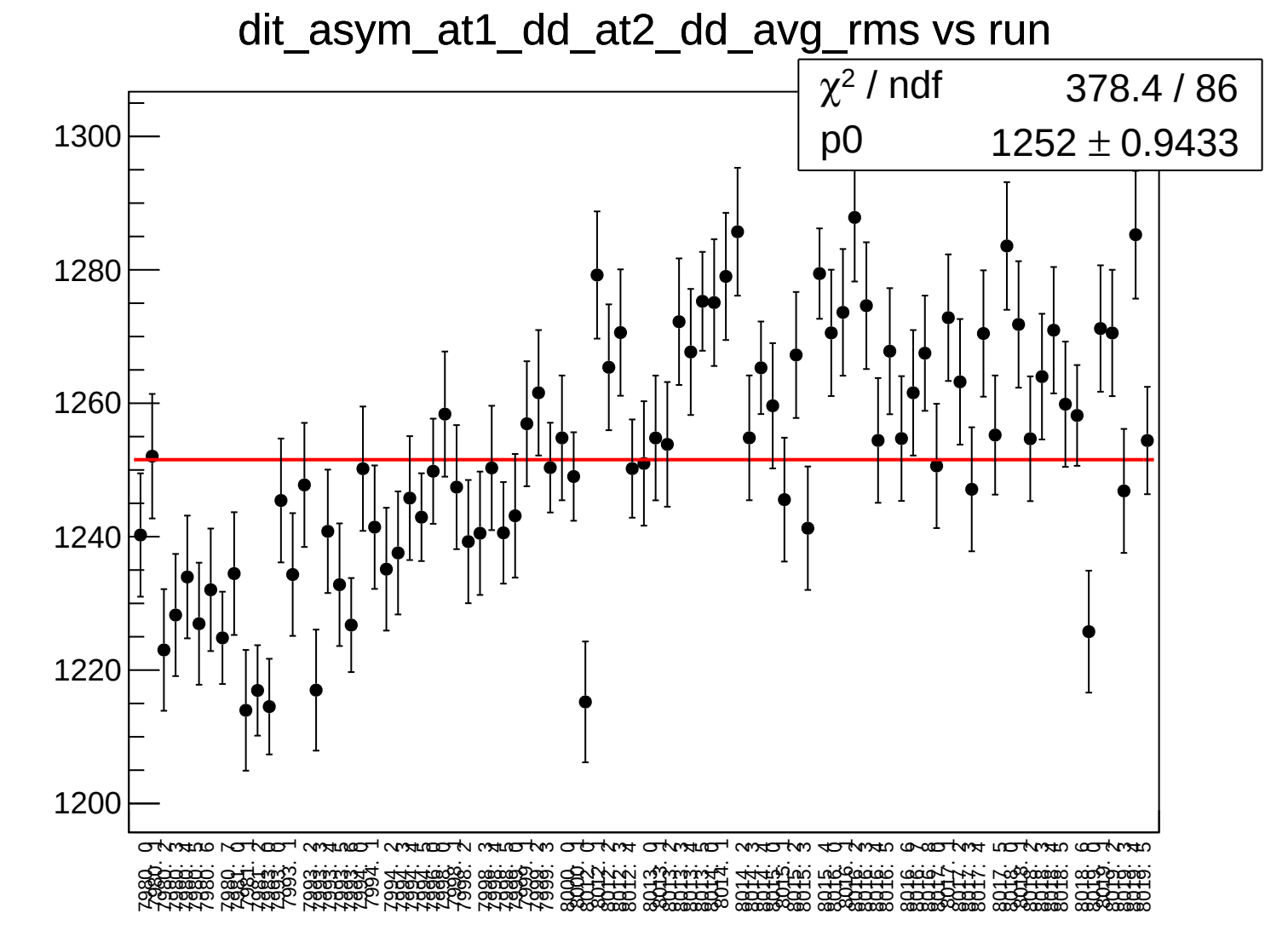

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 117.8 / 86
p0 −1096 ± 1387
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 318.8
Std Dev 0
3
2
1
0
−1
−2
−3

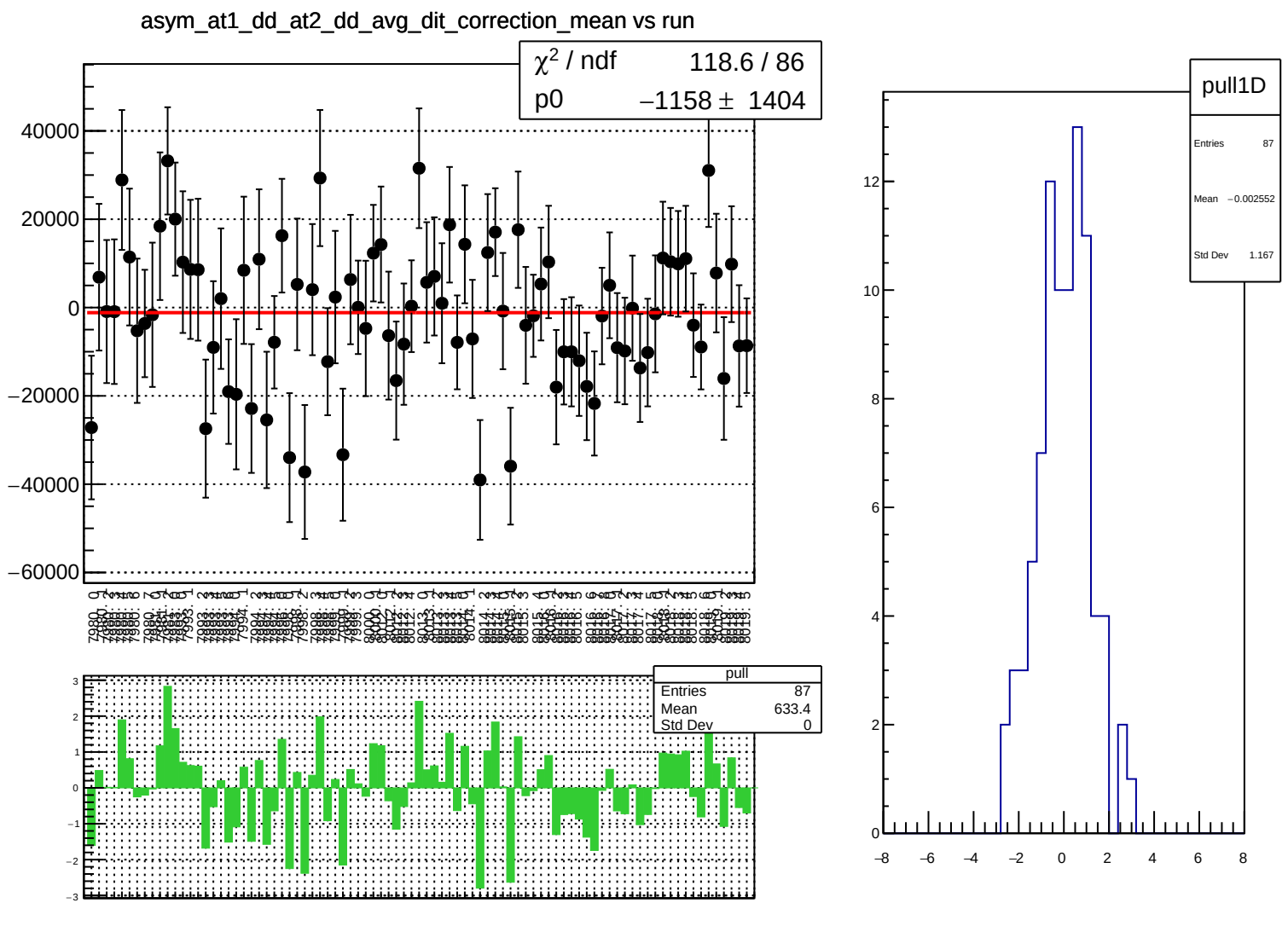

pull1D
Entries 87
Mean −0.004902
Std Dev 1.164
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

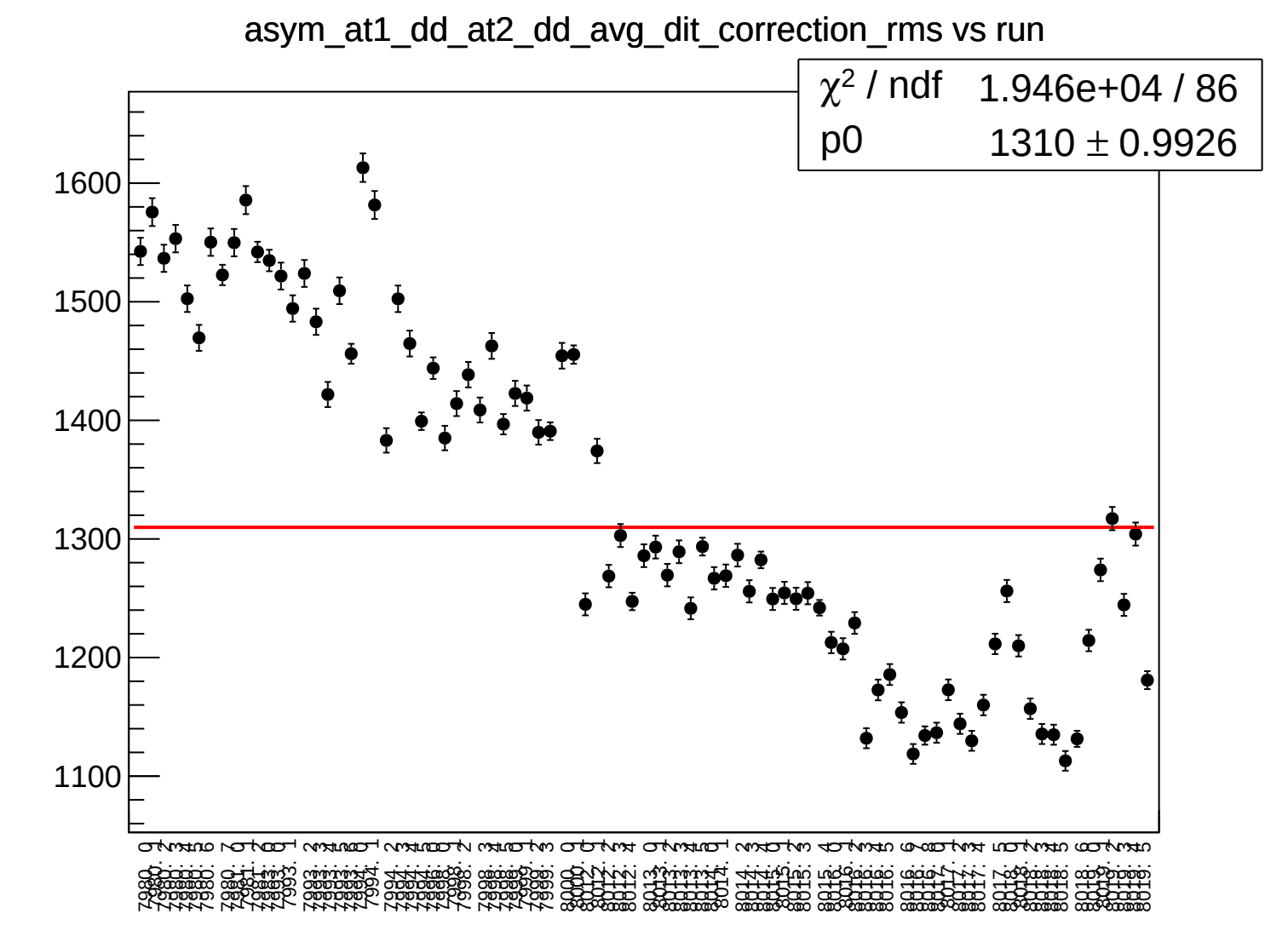

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.854e+04 / 86
p0 1294 ± 0.9807
1600
1500
1400
1300
1200
1100

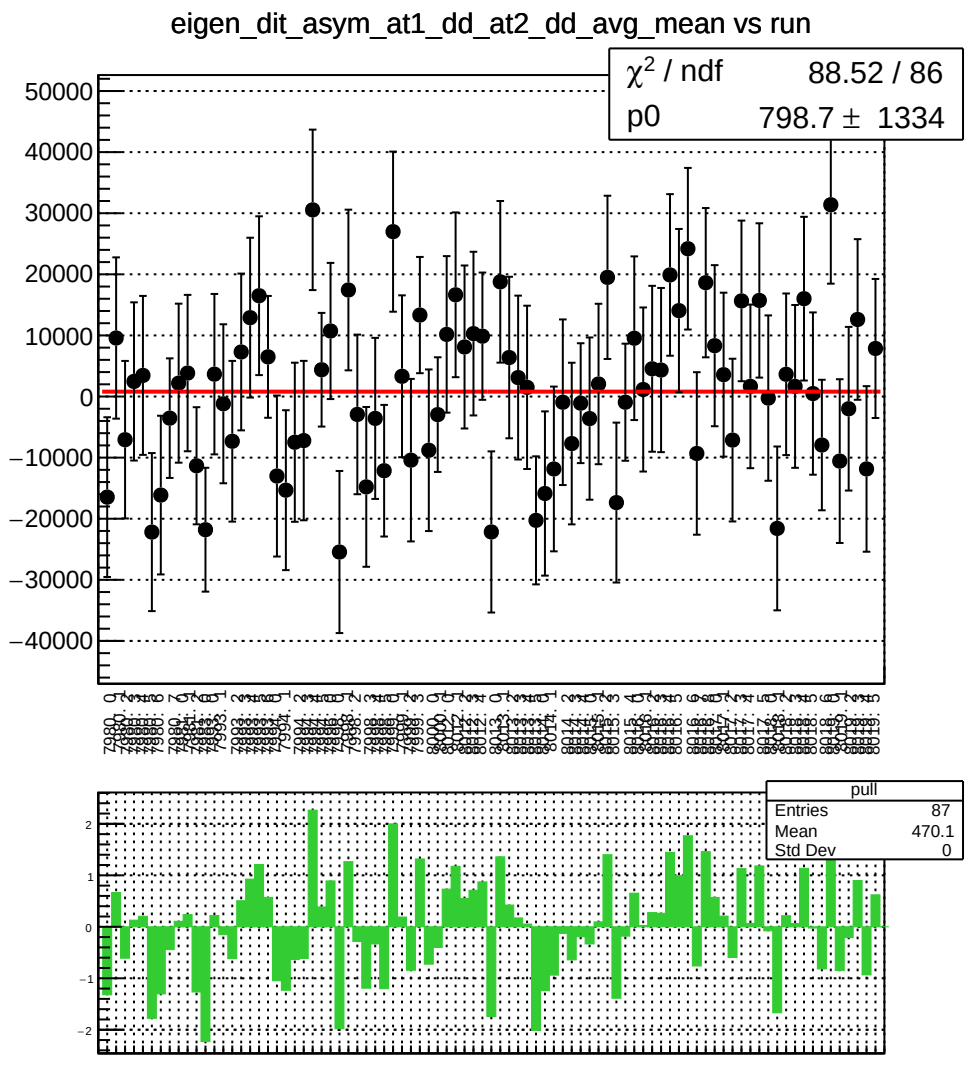

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 88.52 / 86
p0 798.7 ± 1334
pull
Entries 87
Mean 470.1
Std Dev 0

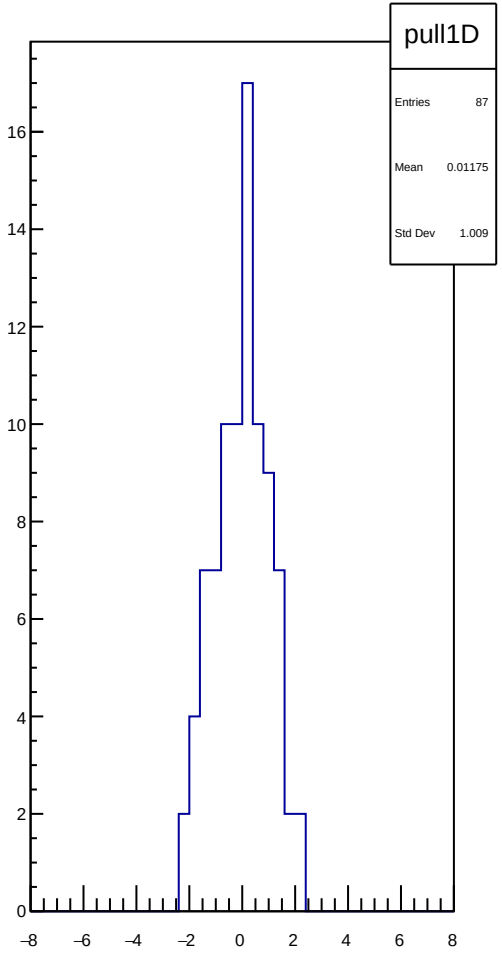

pull1D
Entries 87
Mean 0.01175
Std Dev 1.009

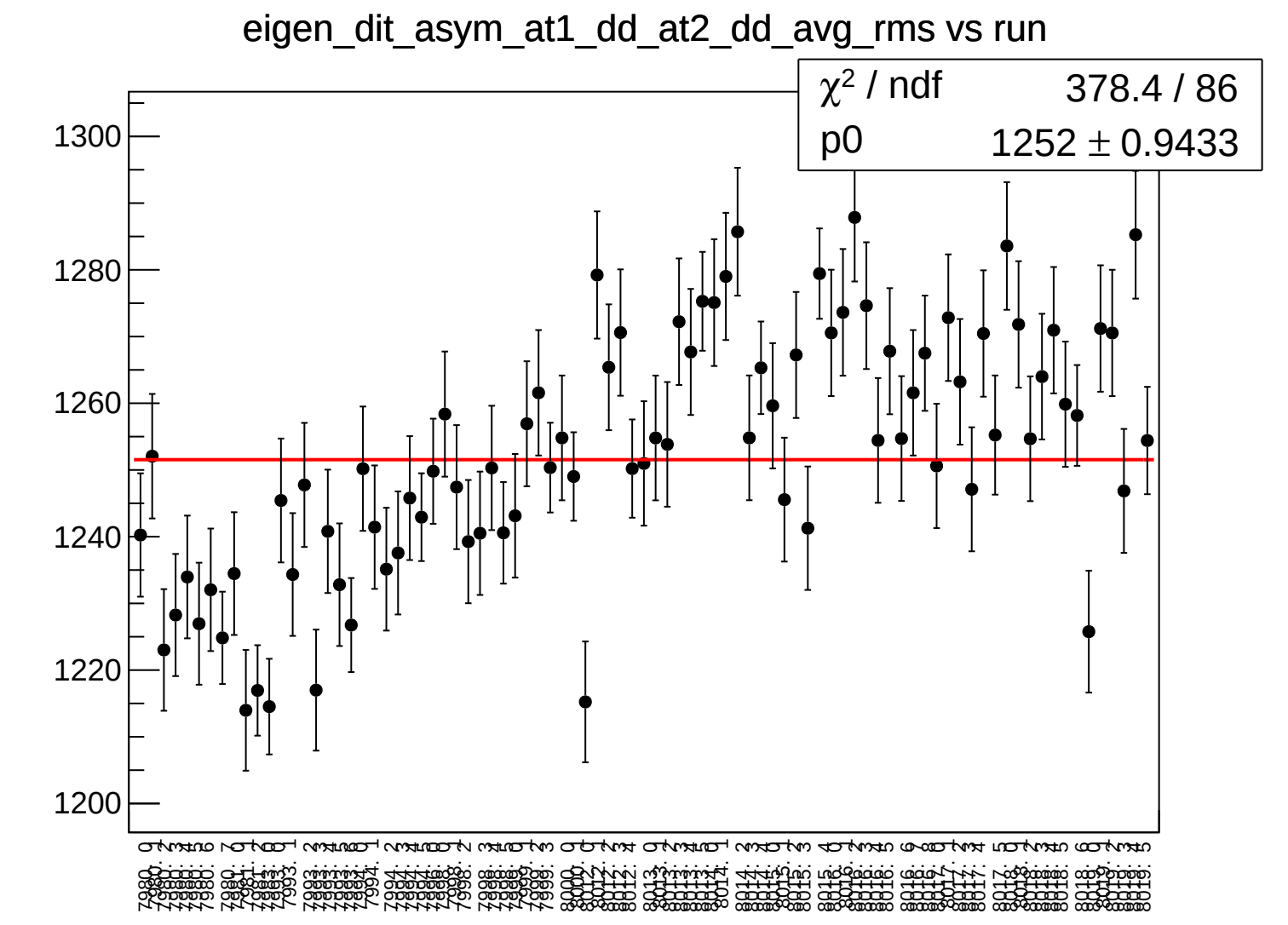

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 378.4 / 86
p0 1252 ± 0.9433
1300
1280
1260
1240
1220
1200

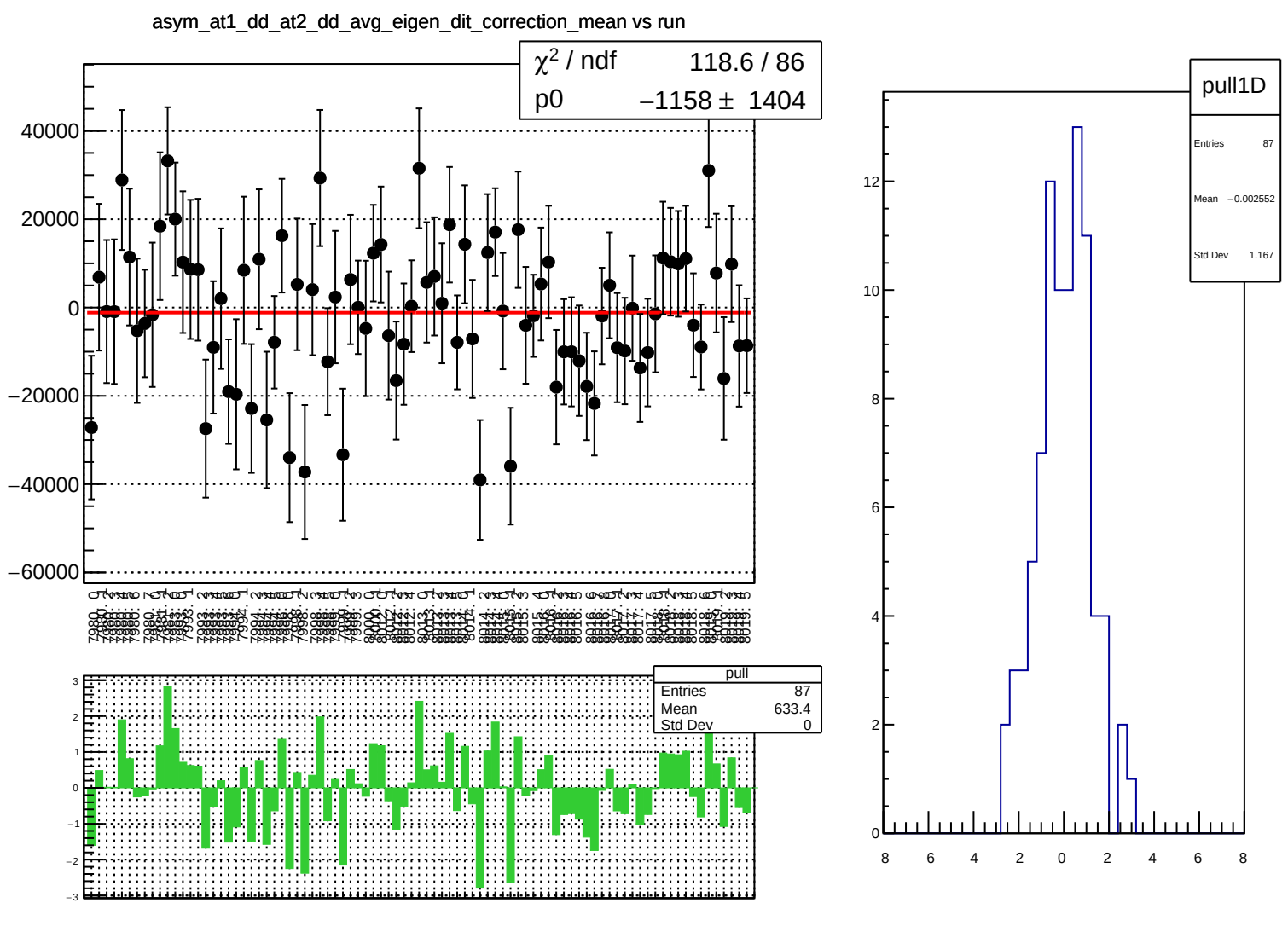

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 118.6 / 86
p0 −1158 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 633.4
Std Dev 0
pull1D
Entries 87
Mean −0.002552
Std Dev 1.167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

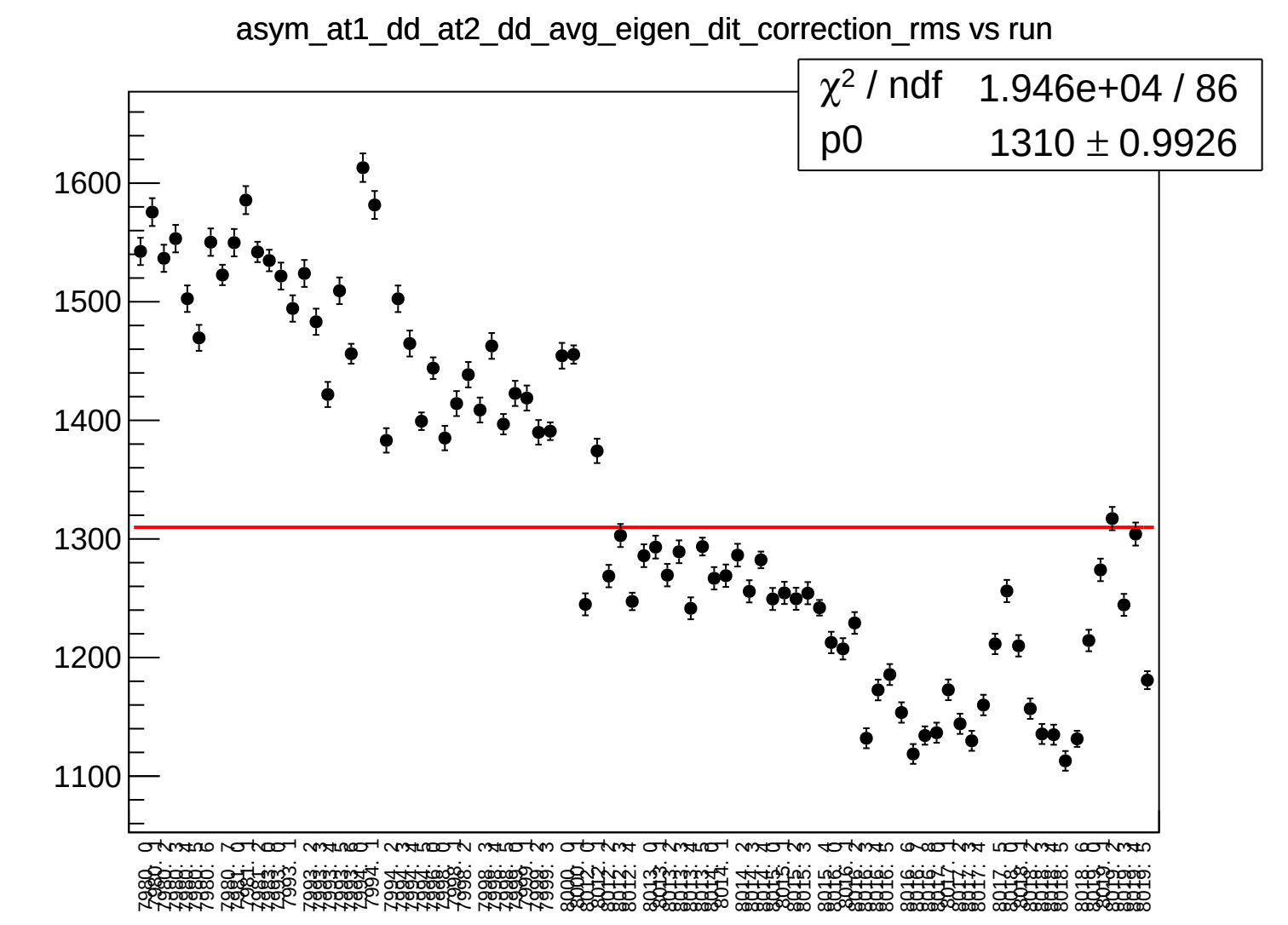

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.946e+04 / 86
p0 1310 ± 0.9926
1600
1500
1400
1300
1200
1100

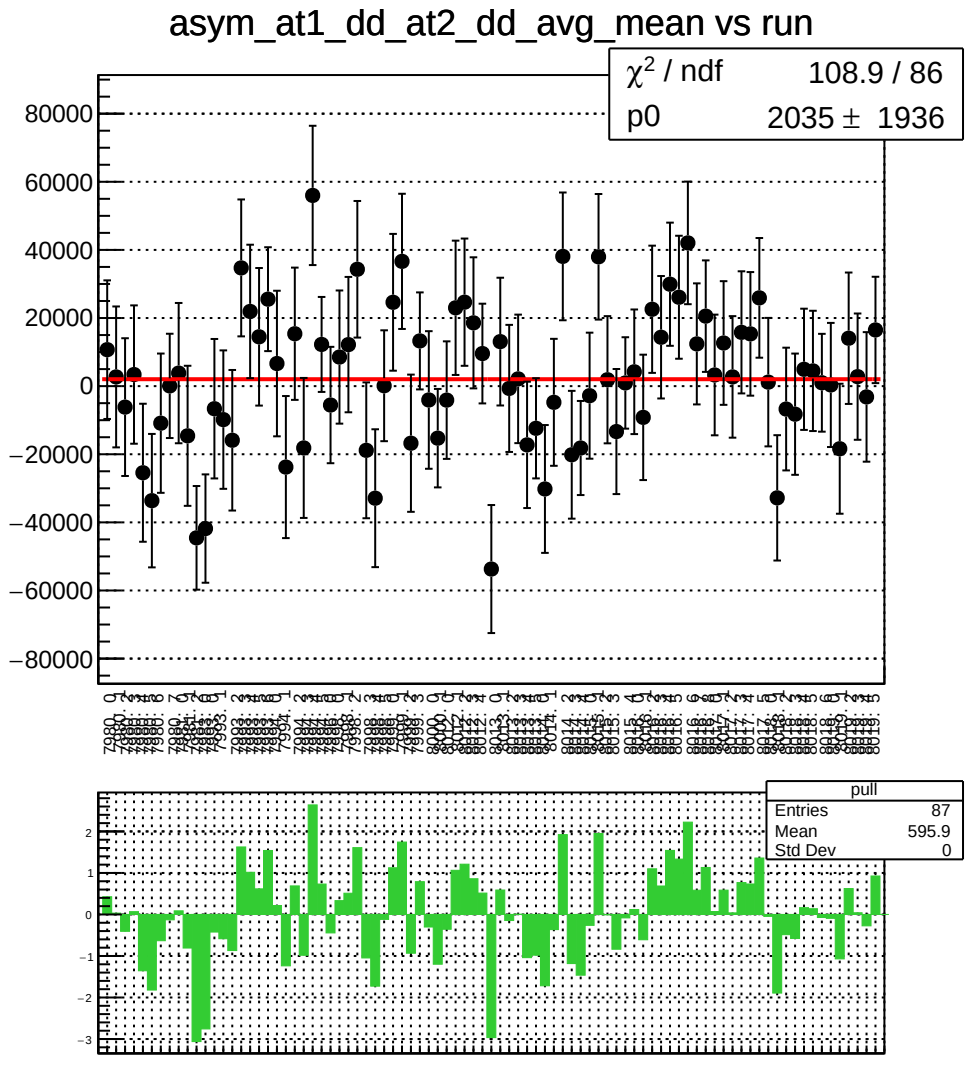

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 88.52 / 86
p0 798.7 ± 1334
pull
Entries 87
Mean 470.1
Std Dev 0

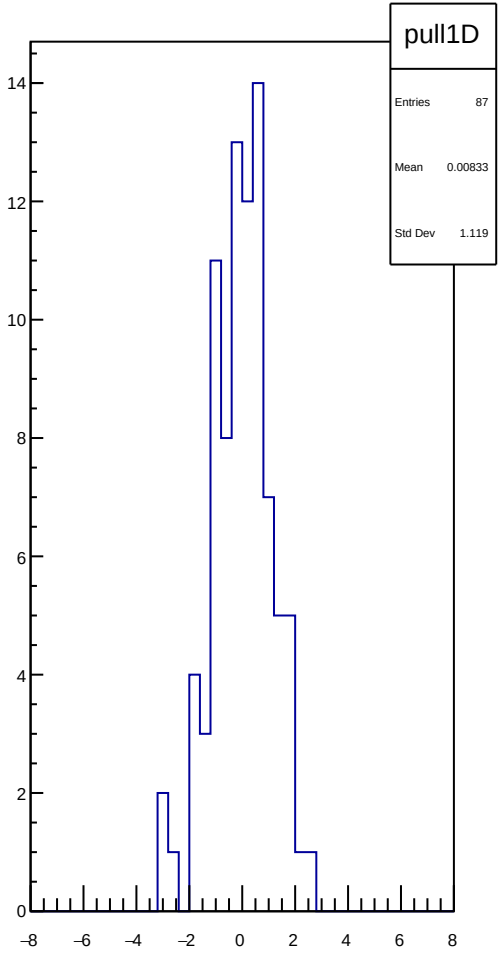

pull1D
Entries 87
Mean 0.01175
Std Dev 1.009

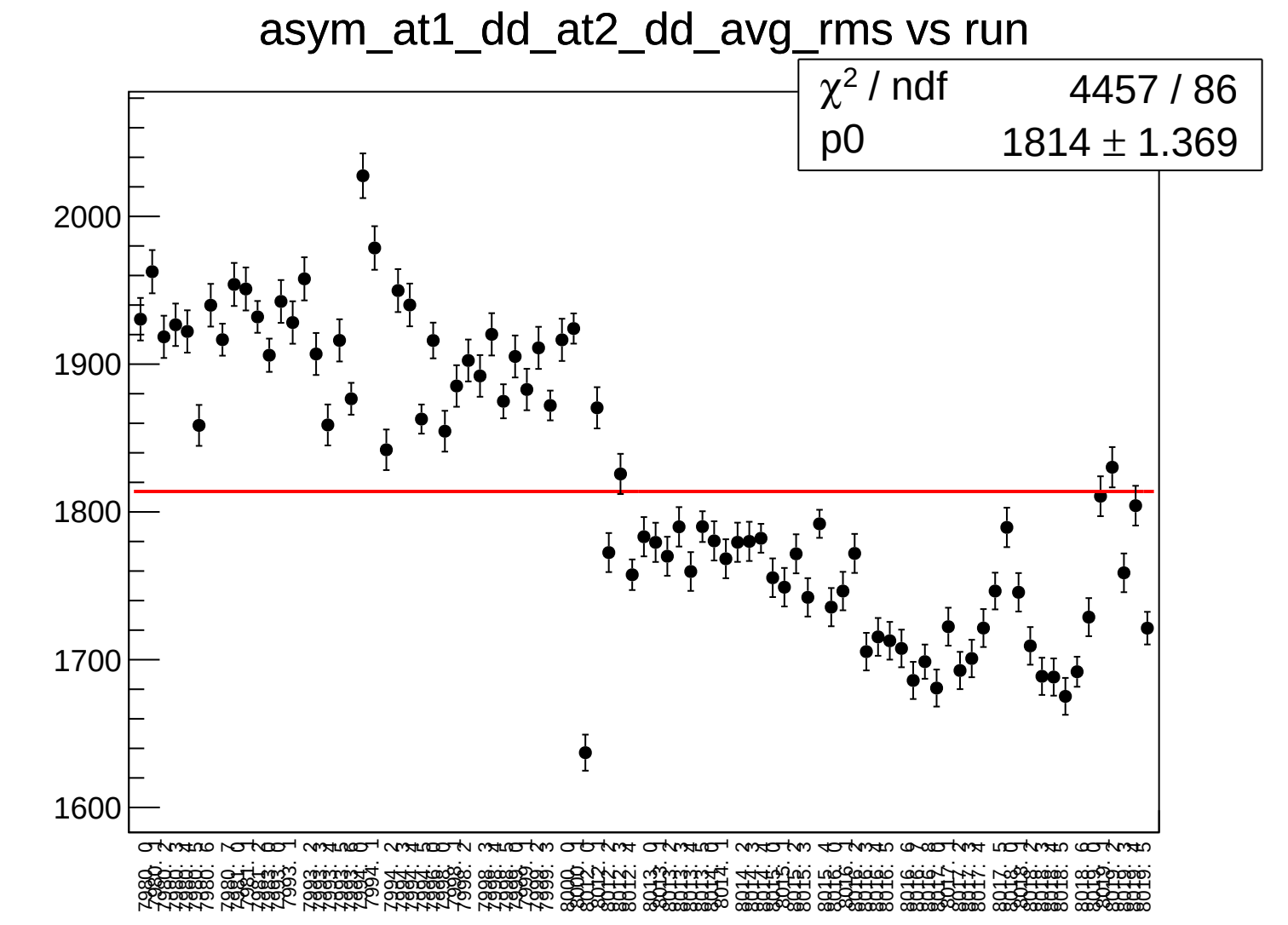

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 378.4 / 86
p0 1252 ± 0.9433
1300
1280
1260
1240
1220
1200

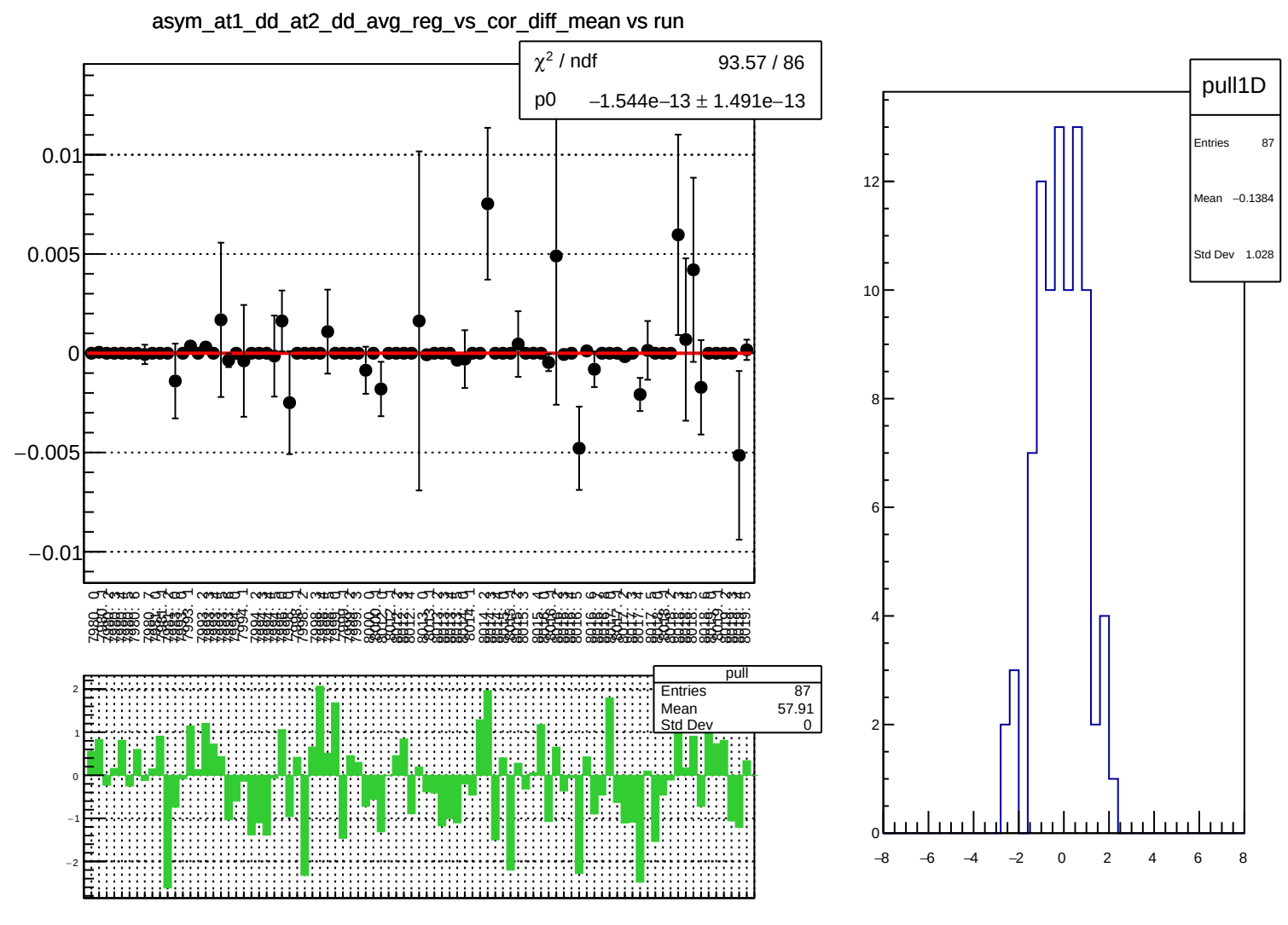

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 118.6 / 86
p0 −1158 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 633.4
Std Dev 0
pull1D
Entries 87
Mean −0.002552
Std Dev 1.167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

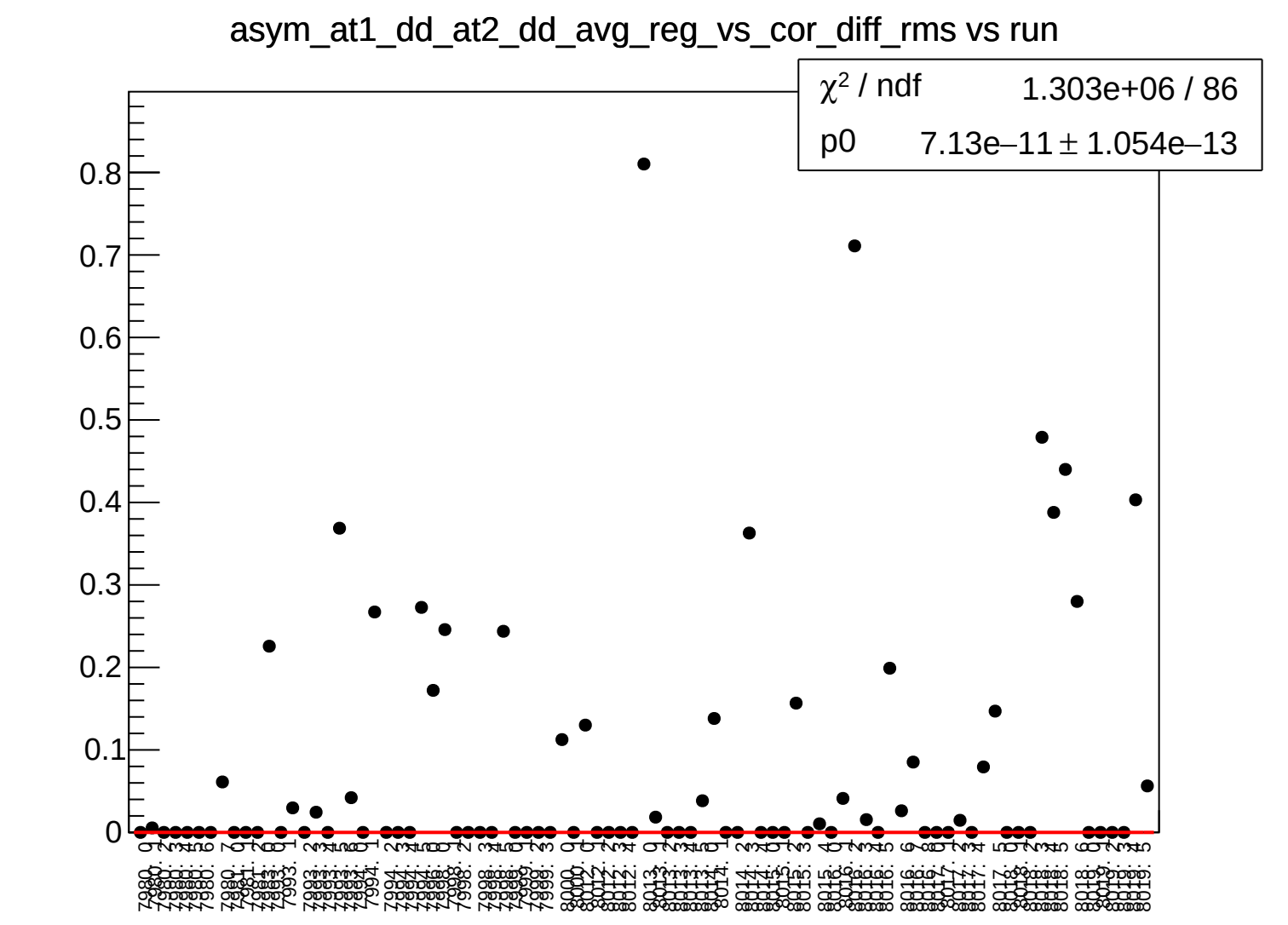

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.946e+04 / 86
p0 1310 ± 0.9926
1600
1500
1400
1300
1200
1100

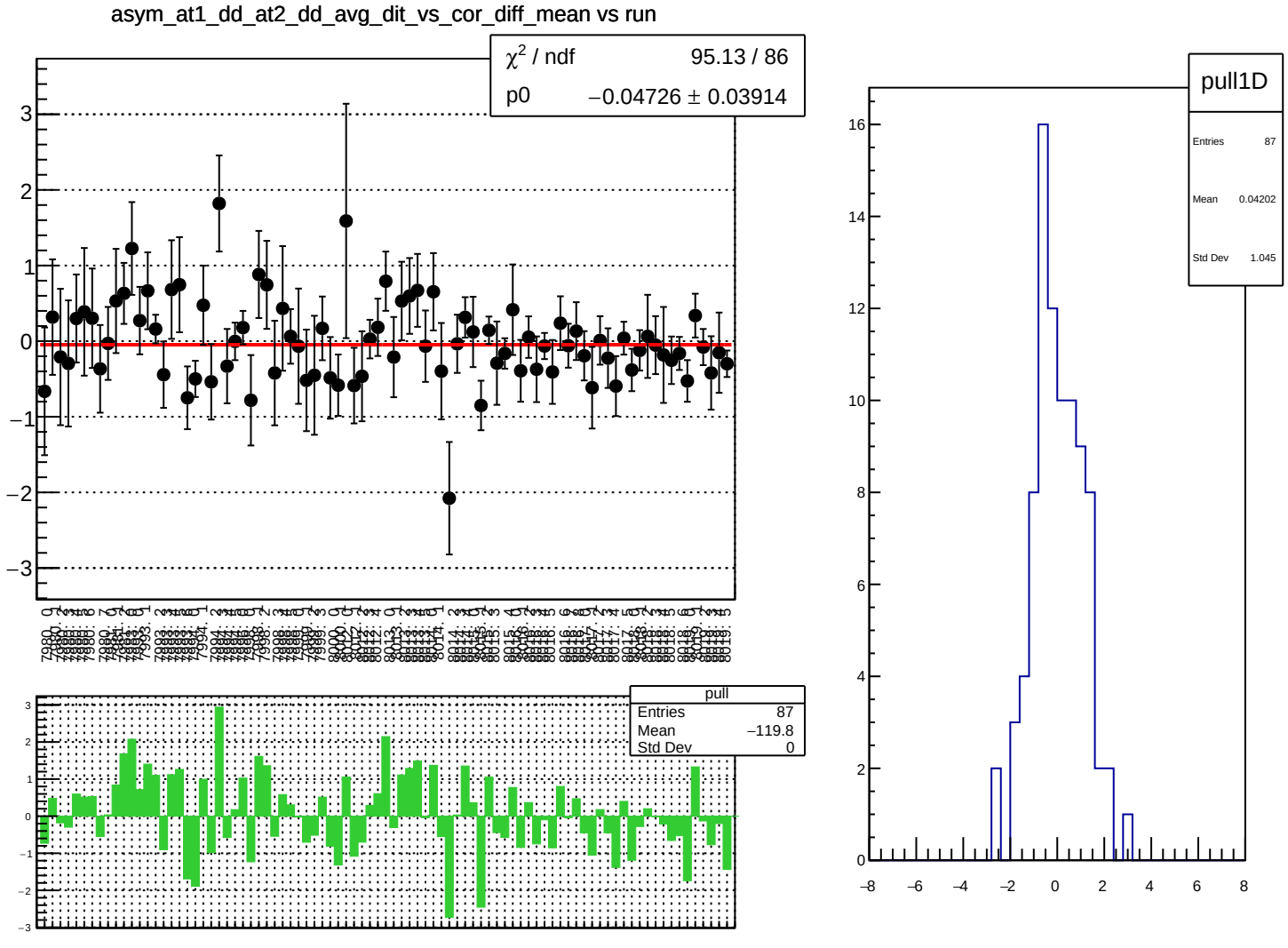

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 108.9 / 86
p0 2035 ± 1936
pull
Entries 87
Mean 595.9
Std Dev 0

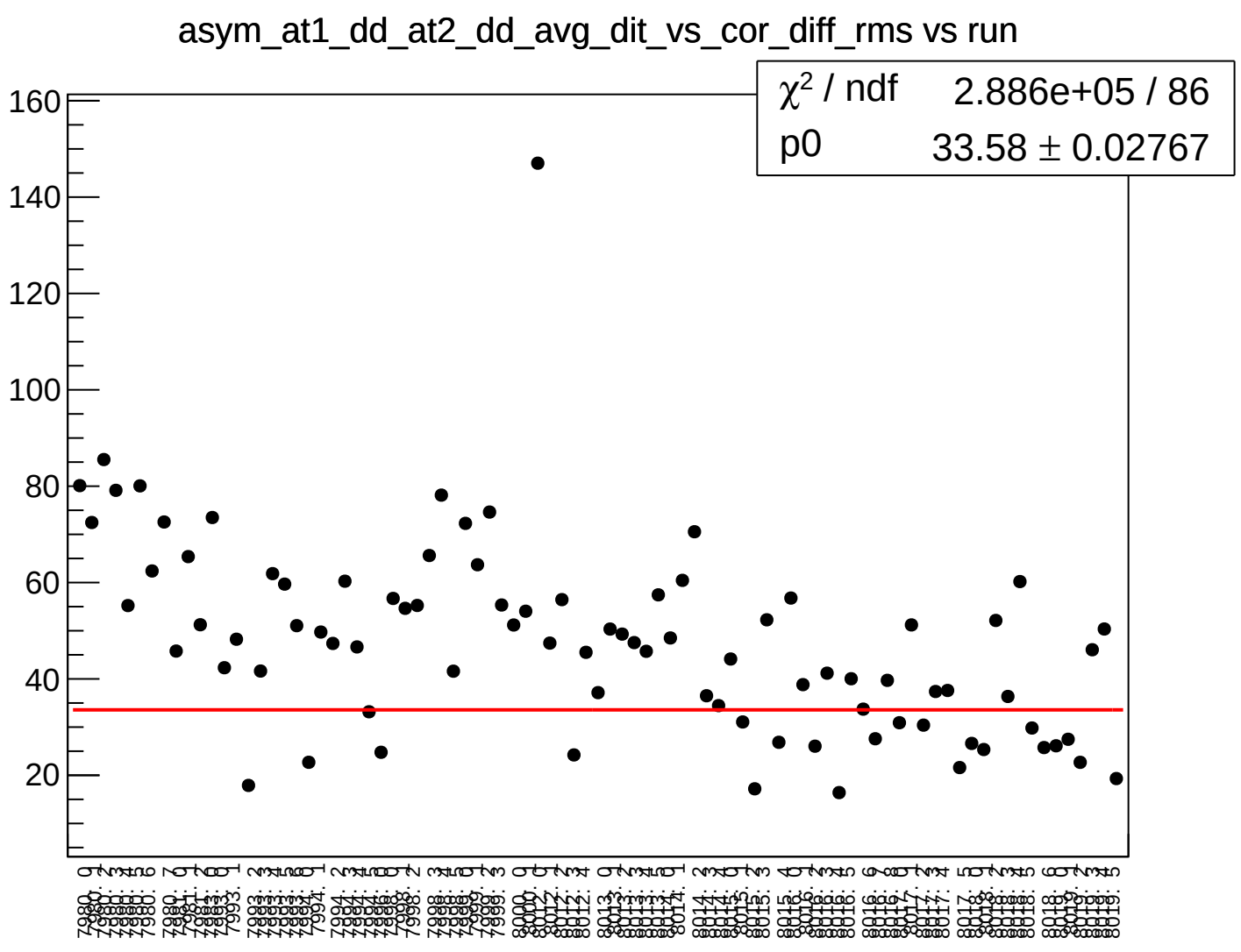

pull1D
Entries 87
Mean 0.00833
Std Dev 1.119

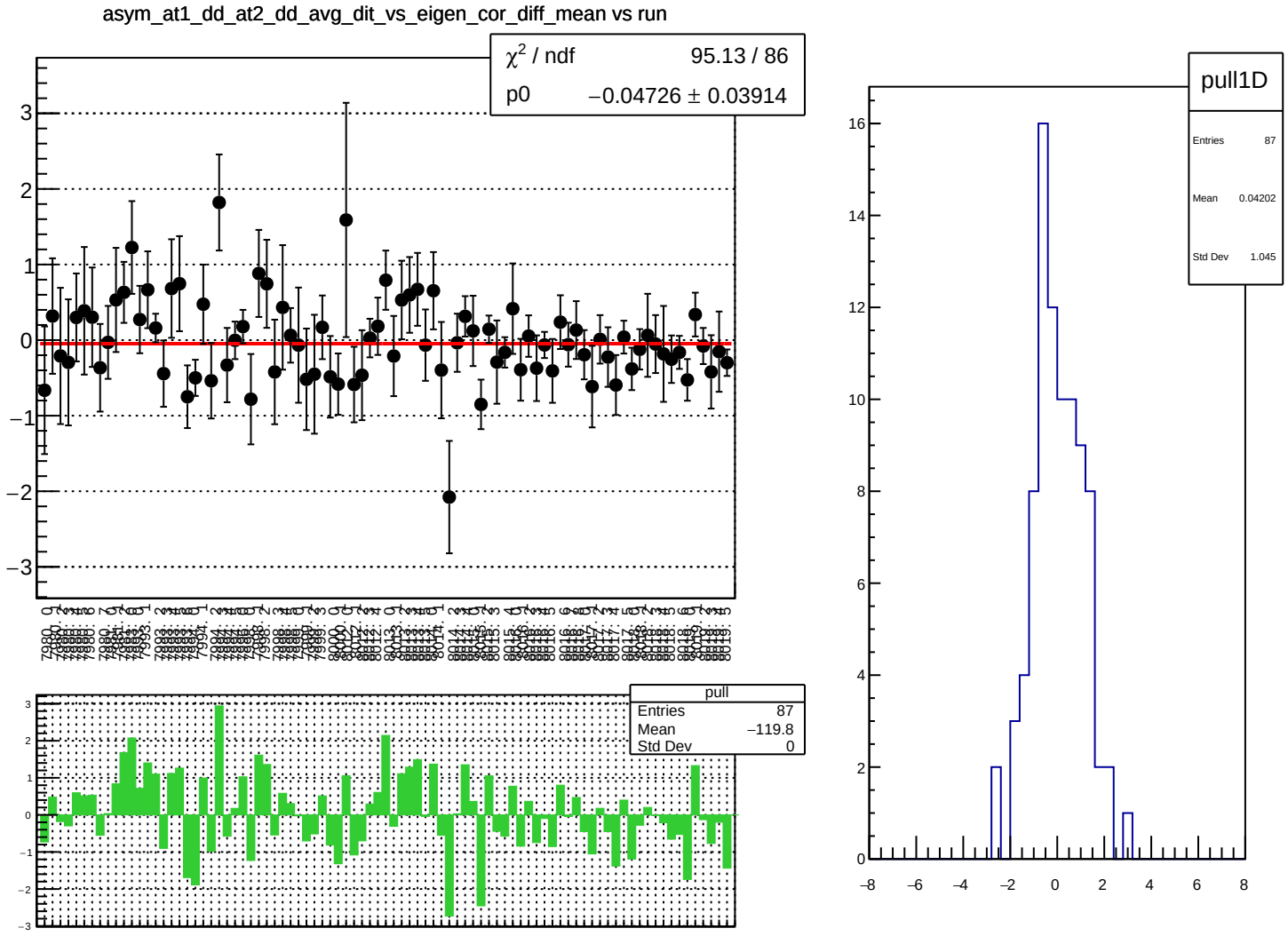

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 4457 / 86
p0 1814 ± 1.369
2000
1900
1800
1700
1600

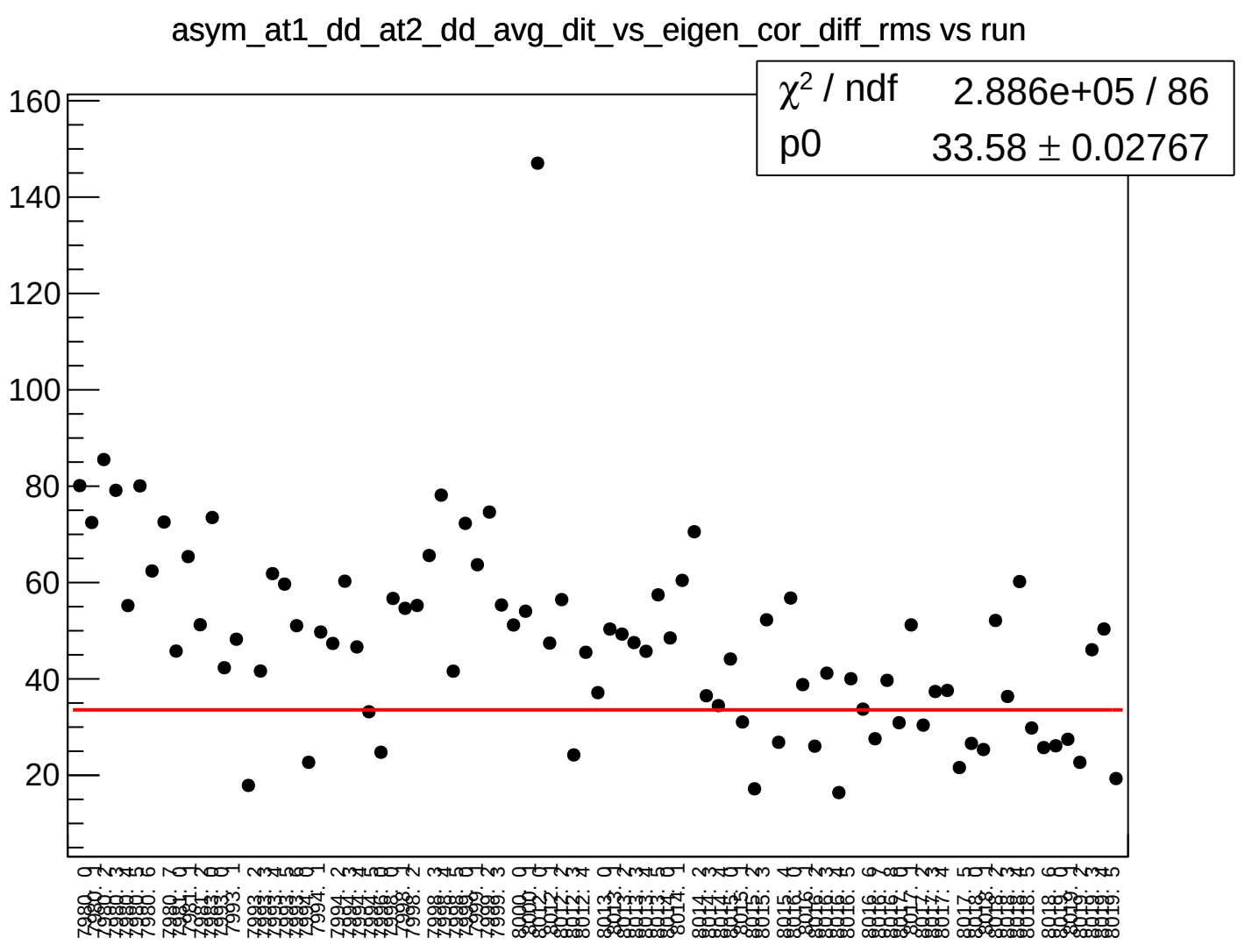

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.57 / 86
p0 −1.544e−13 ± 1.491e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 57.91
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.1384
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

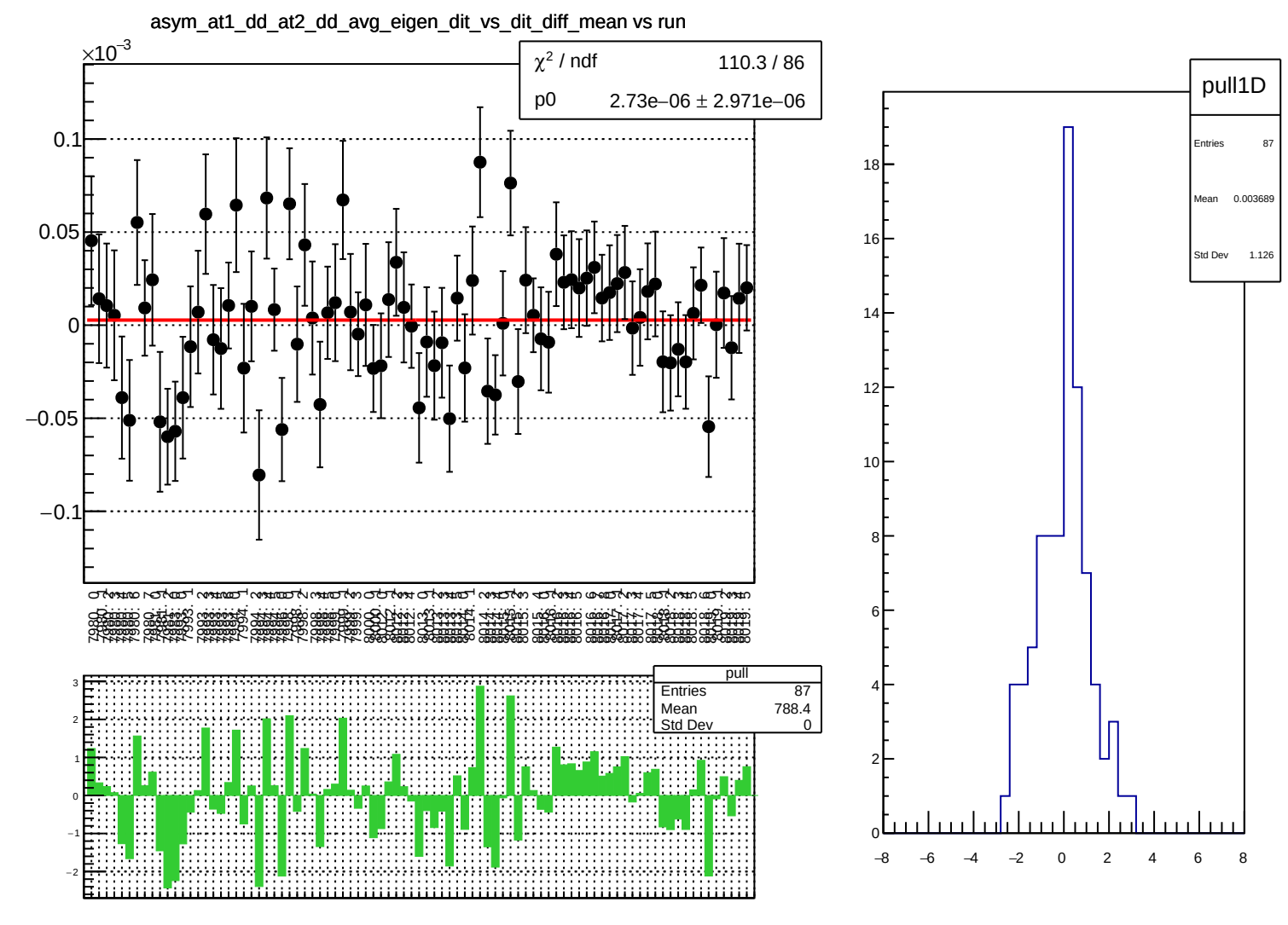

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.303e+06 / 86
p0 7.13e−11 ± 1.054e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

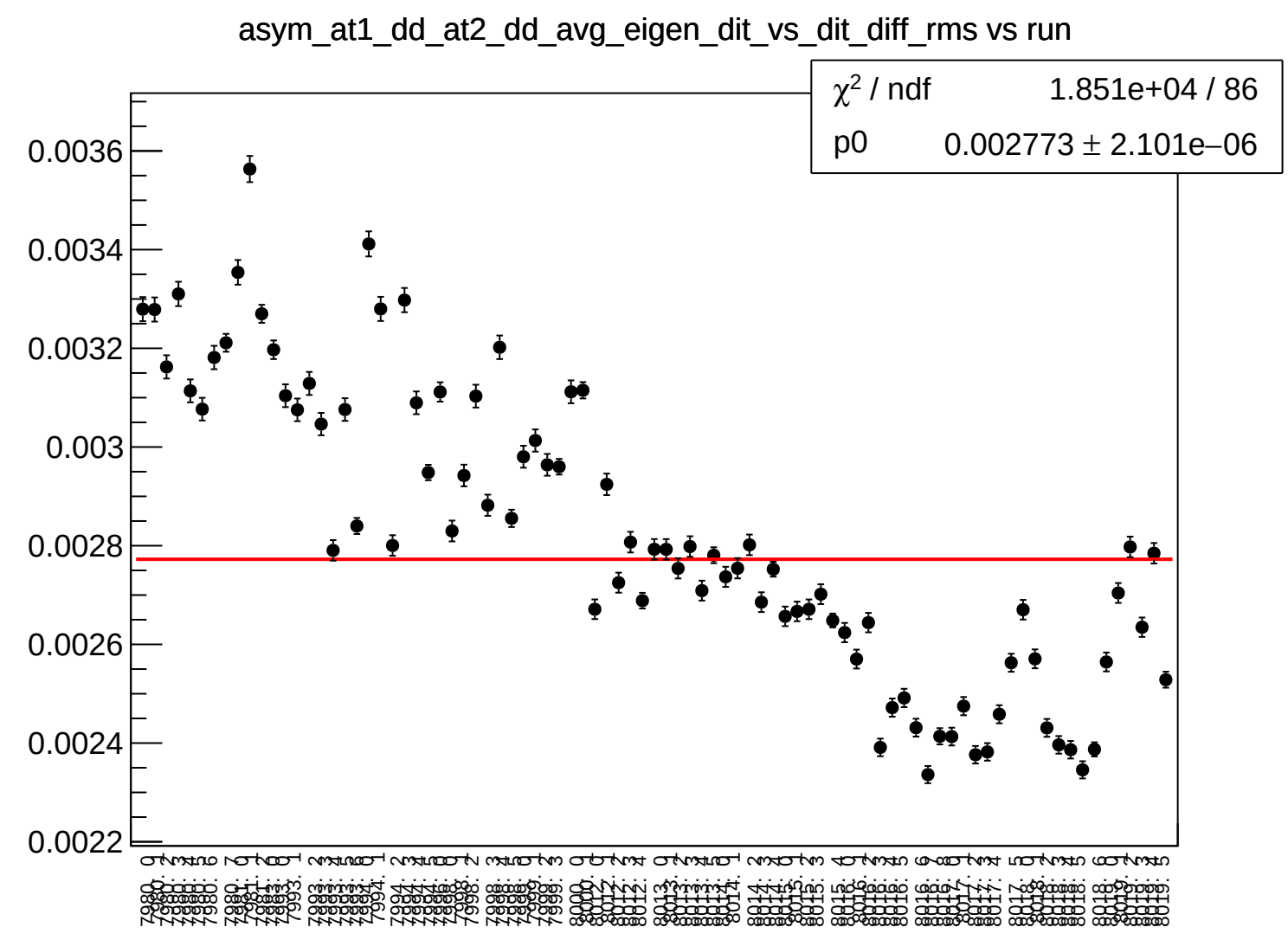

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.13 / 86
p0 −0.04726 ± 0.03914
pull
Entries 87
Mean −119.8
Std Dev 0
pull1D
Entries 87
Mean 0.04202
Std Dev 1.045

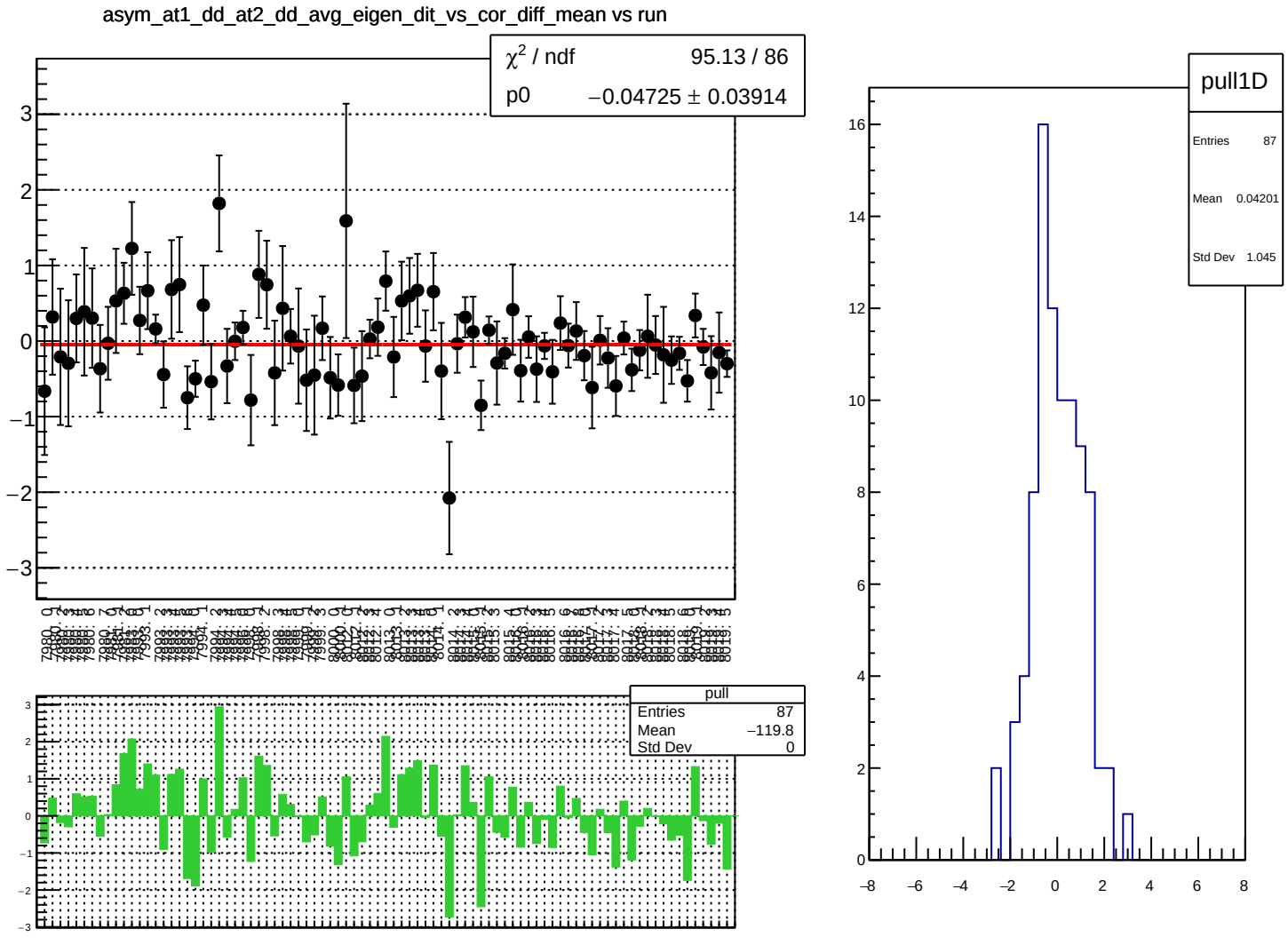

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.886e+05 / 86
p0 33.58 ± 0.02767
160
140
120
100
80
60
40
20

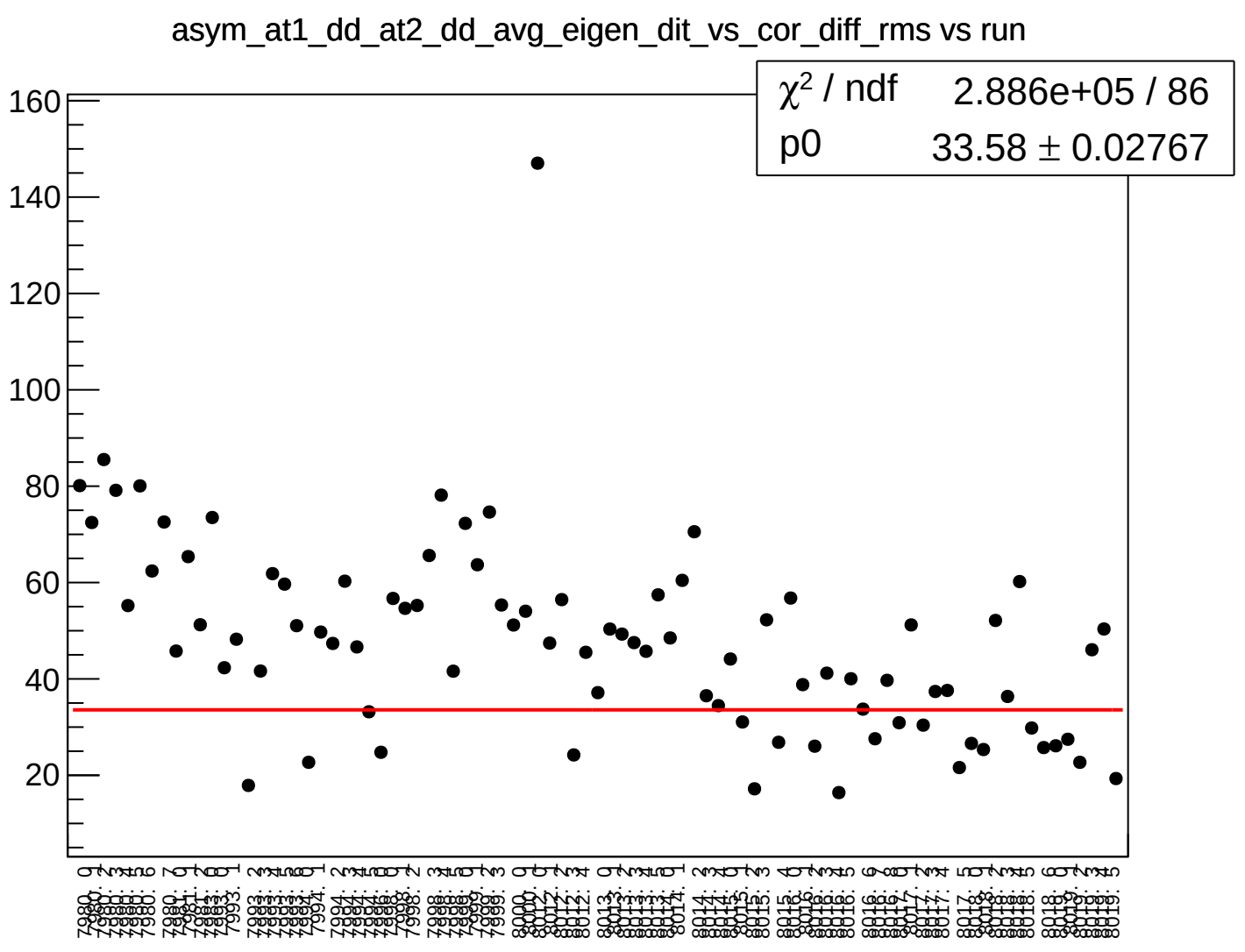

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.13 / 86
p0 −0.04726 ± 0.03914
pull
Entries 87
Mean −119.8
Std Dev 0
pull1D
Entries 87
Mean 0.04202
Std Dev 1.045

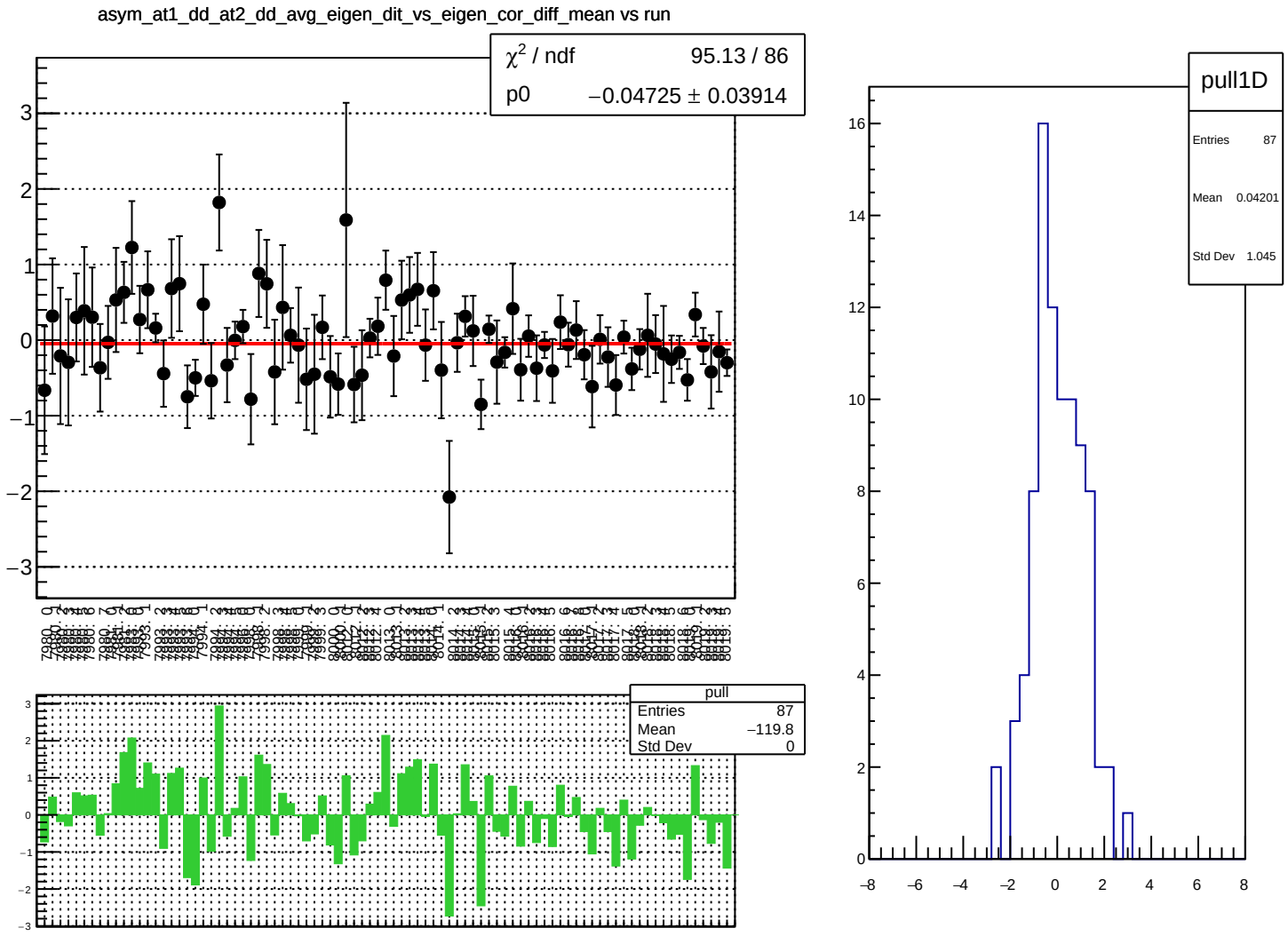

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.886e+05 / 86
p0 33.58 ± 0.02767
160
140
120
100
80
60
40
20

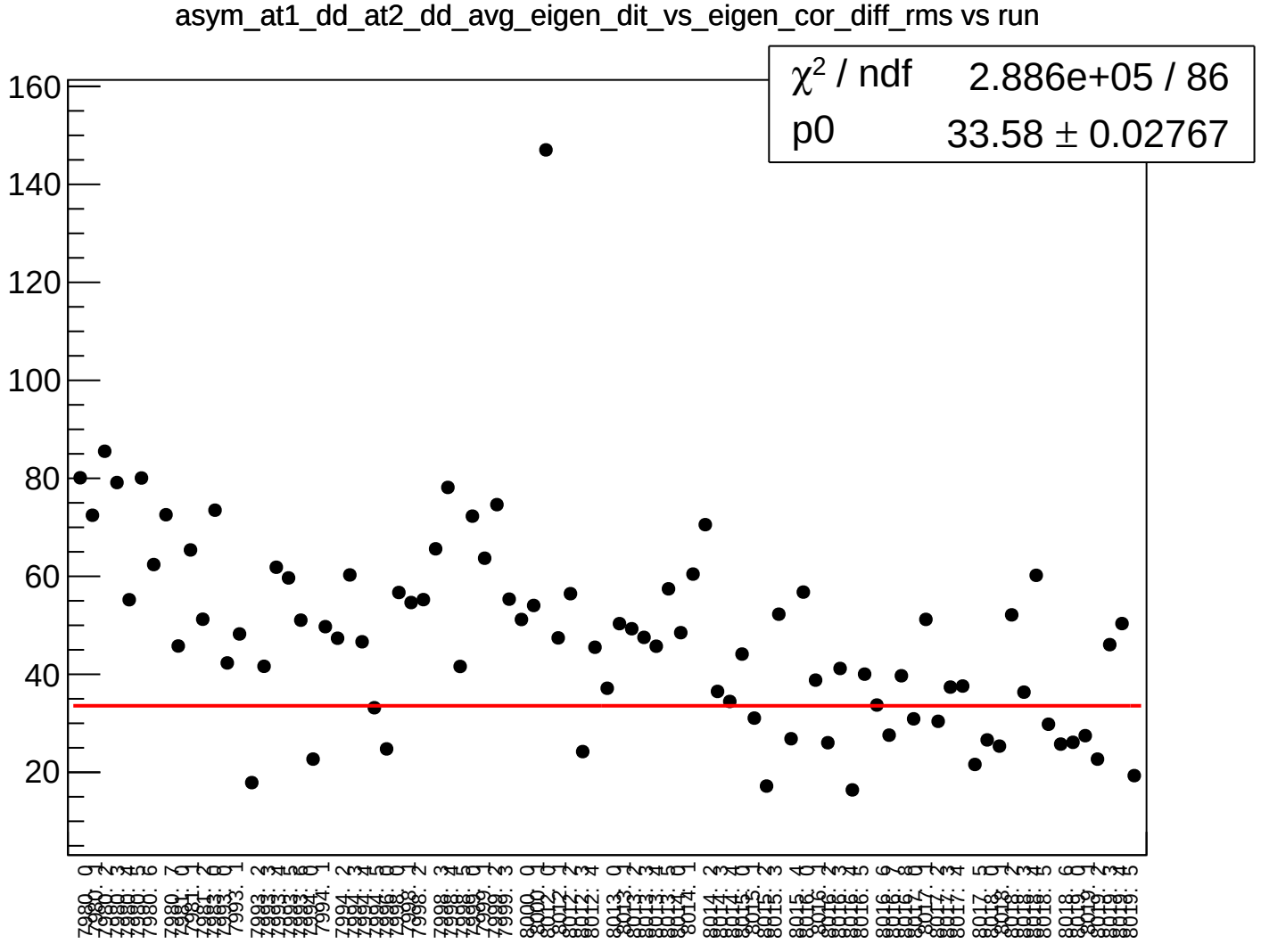

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 110.3 / 86
p0 2.73e−06 ± 2.971e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 788.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.003689
Std Dev 1.126
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

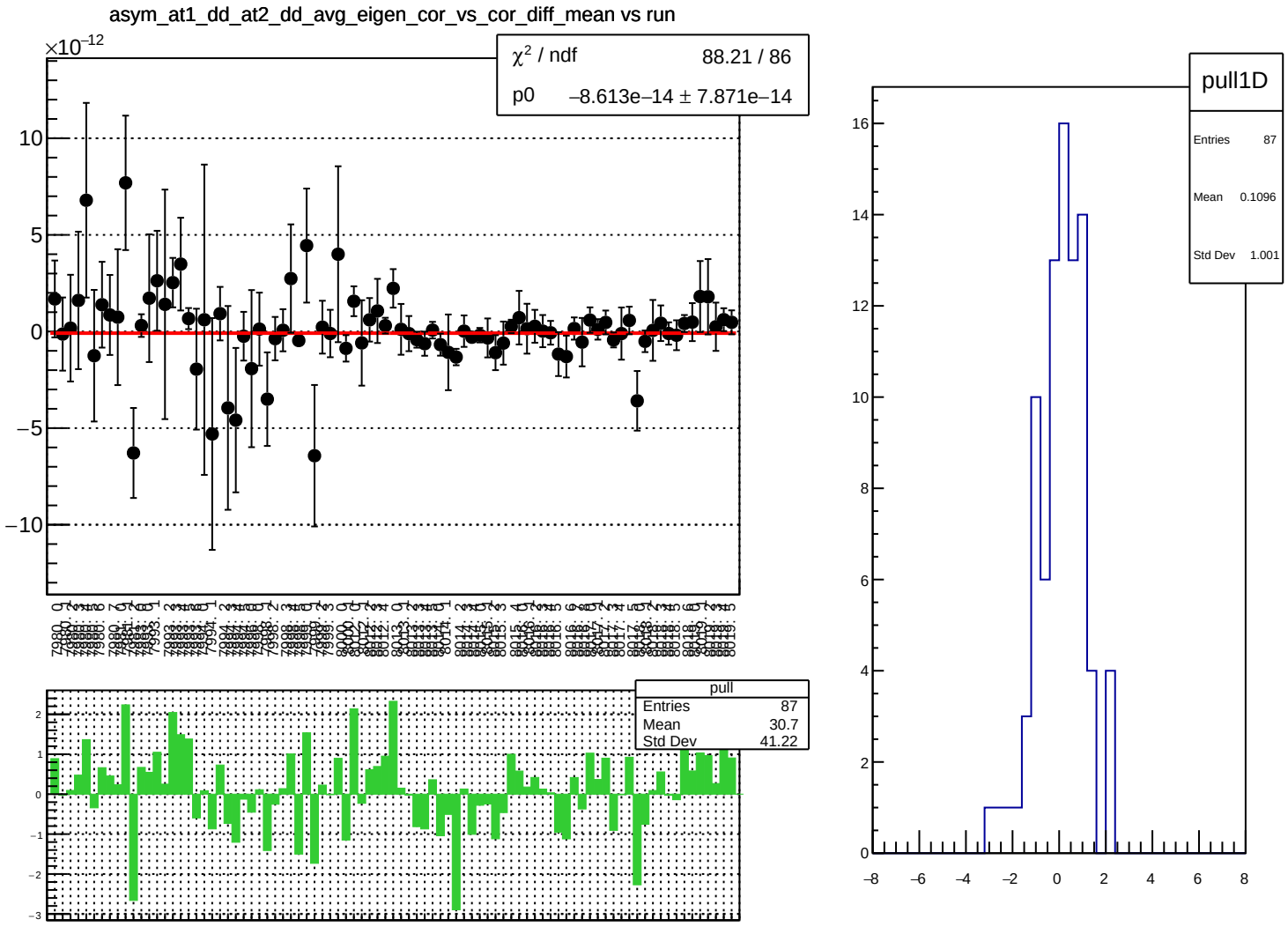

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.851e+04 / 86
p0 0.002773 ± 2.101e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

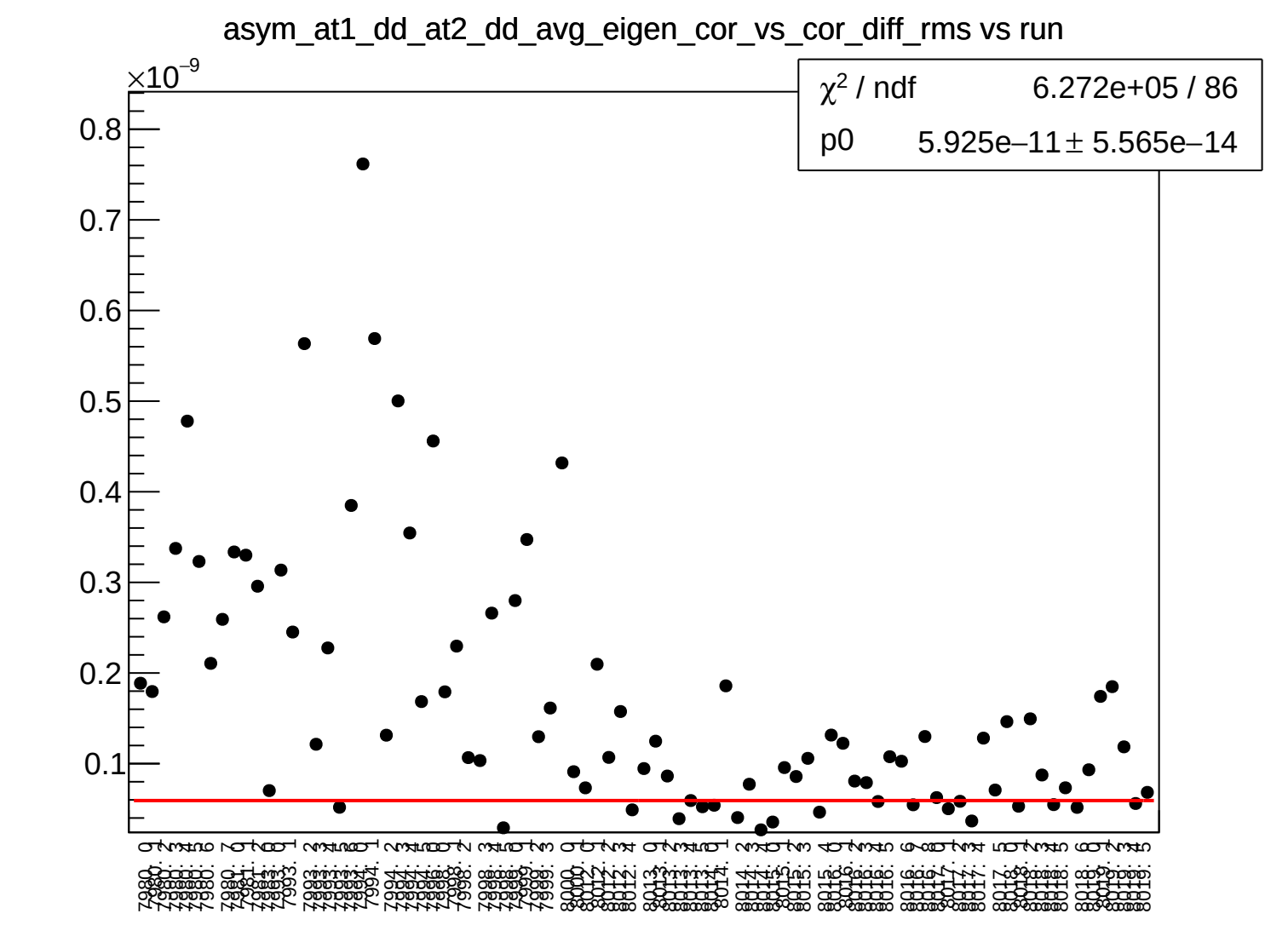

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.13 / 86
p0 −0.04725 ± 0.03914
pull
Entries 87
Mean −119.8
Std Dev 0
pull1D
Entries 87
Mean 0.04201
Std Dev 1.045

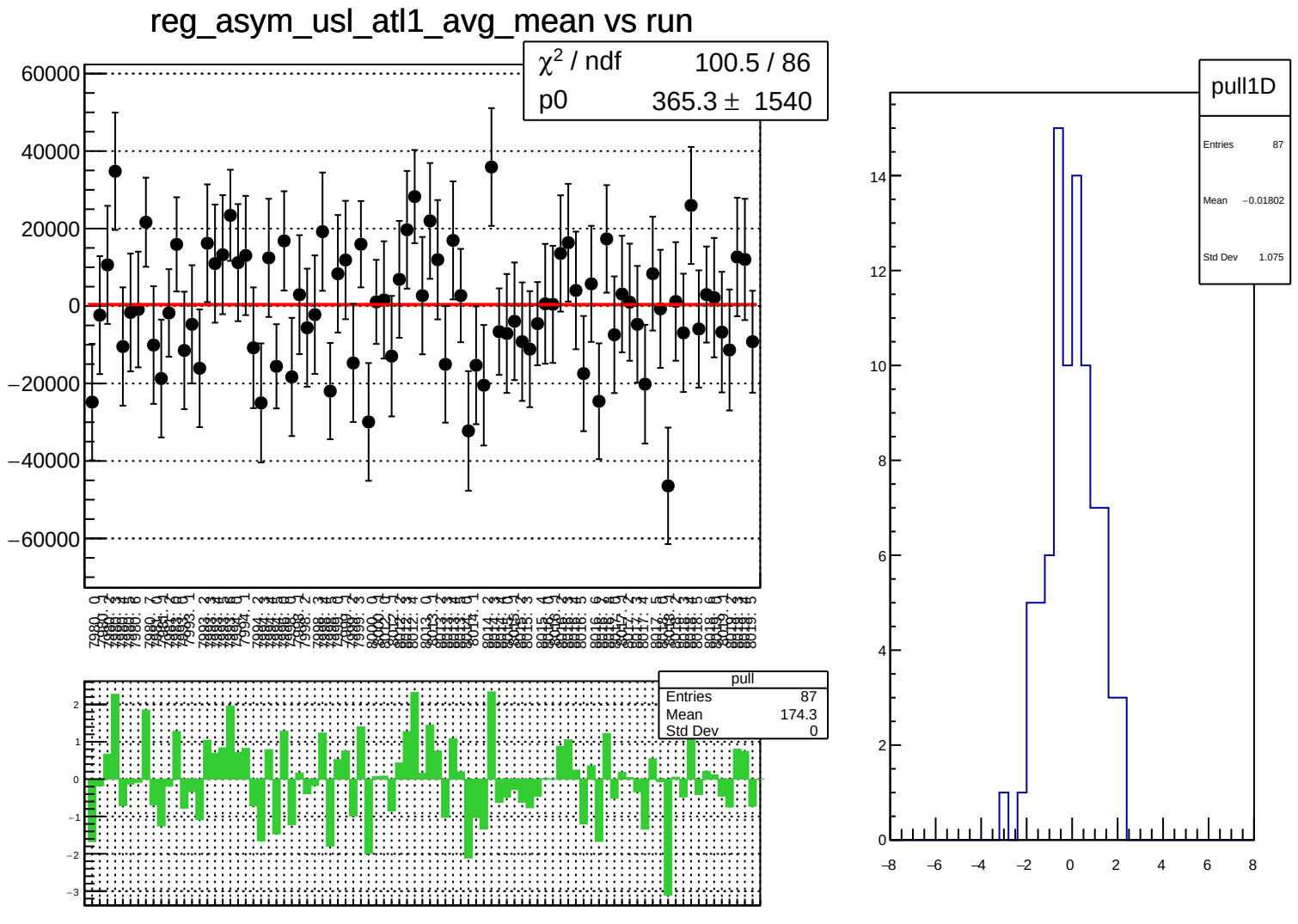

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.886e+05 / 86
p0 33.58 ± 0.02767
160
140
120
100
80
60
40
20

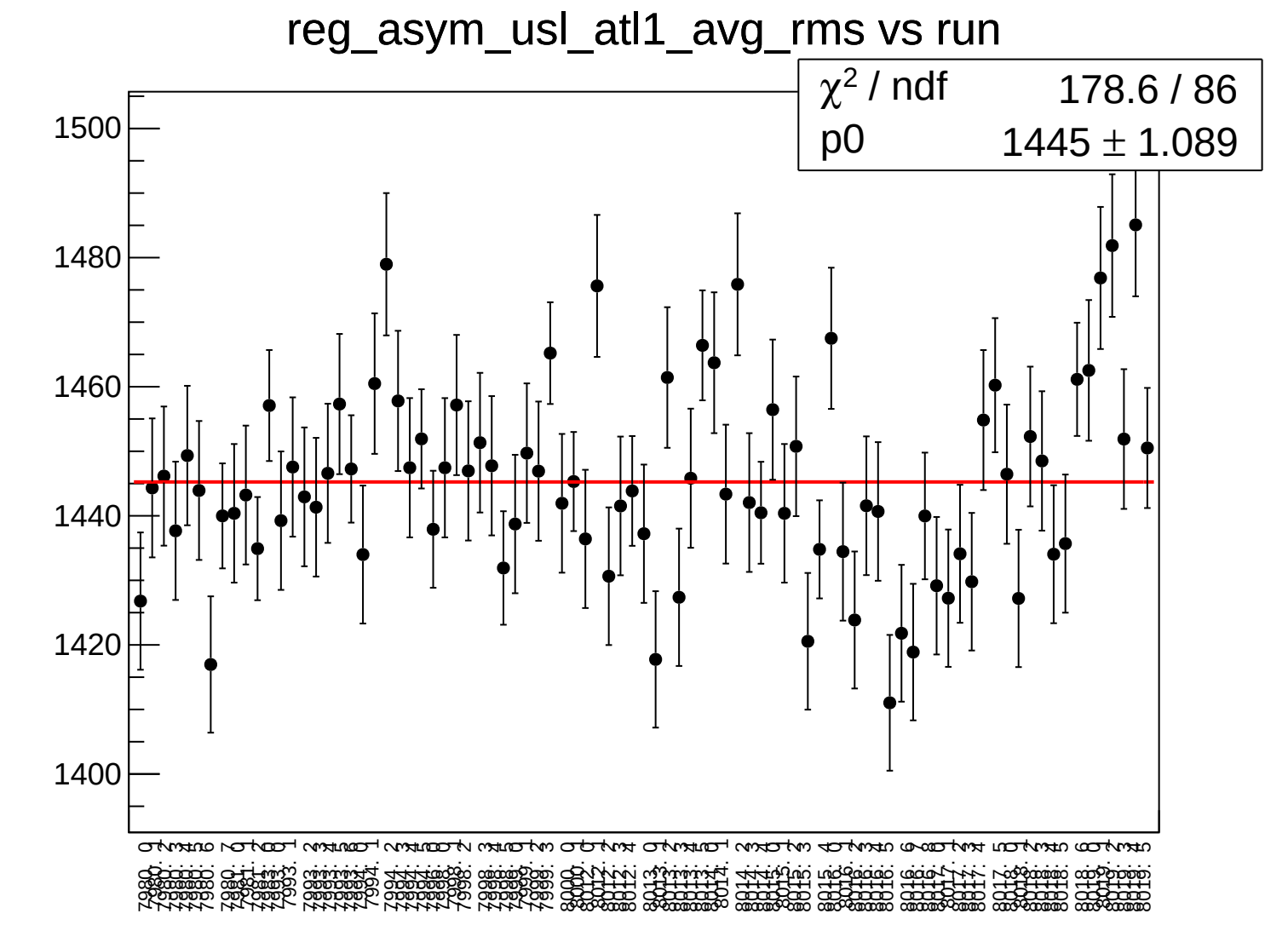

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.13 / 86
p0 −0.04725 ± 0.03914
pull
Entries 87
Mean −119.8
Std Dev 0
pull1D
Entries 87
Mean 0.04201
Std Dev 1.045

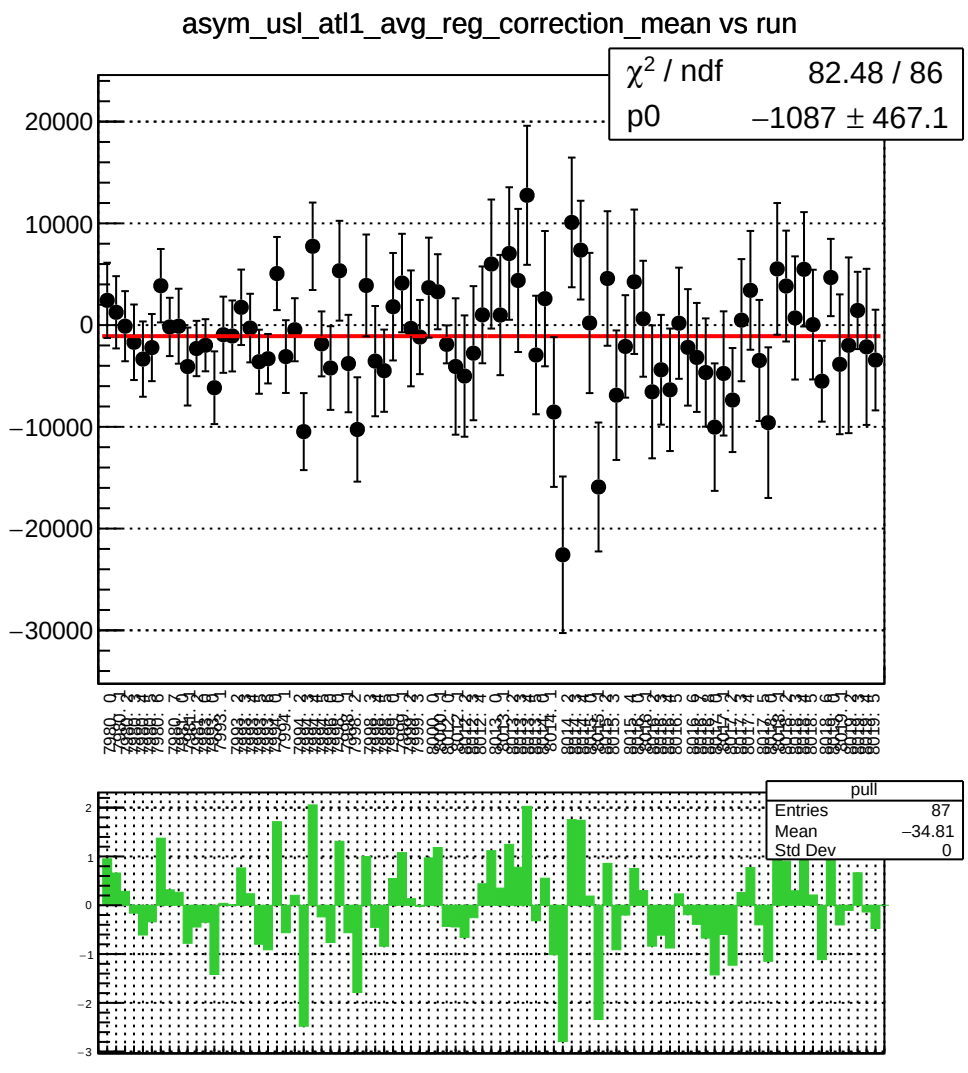

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.886e+05 / 86
p0 33.58 ± 0.02767
160
140
120
100
80
60
40
20

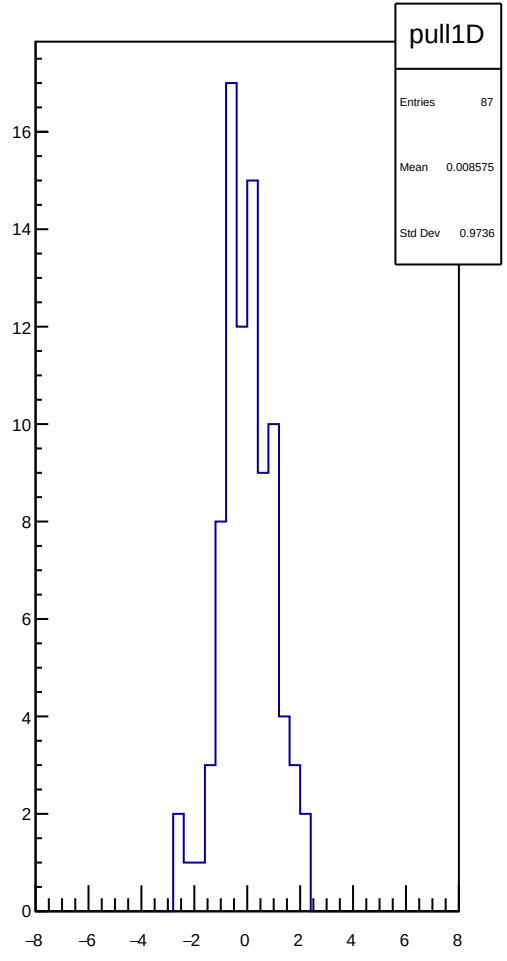

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.21 / 86
p0 −8.613e−14 ± 7.871e−14
pull
Entries 87
Mean 30.7
Std Dev 41.22
pull1D
Entries 87
Mean 0.1096
Std Dev 1.001

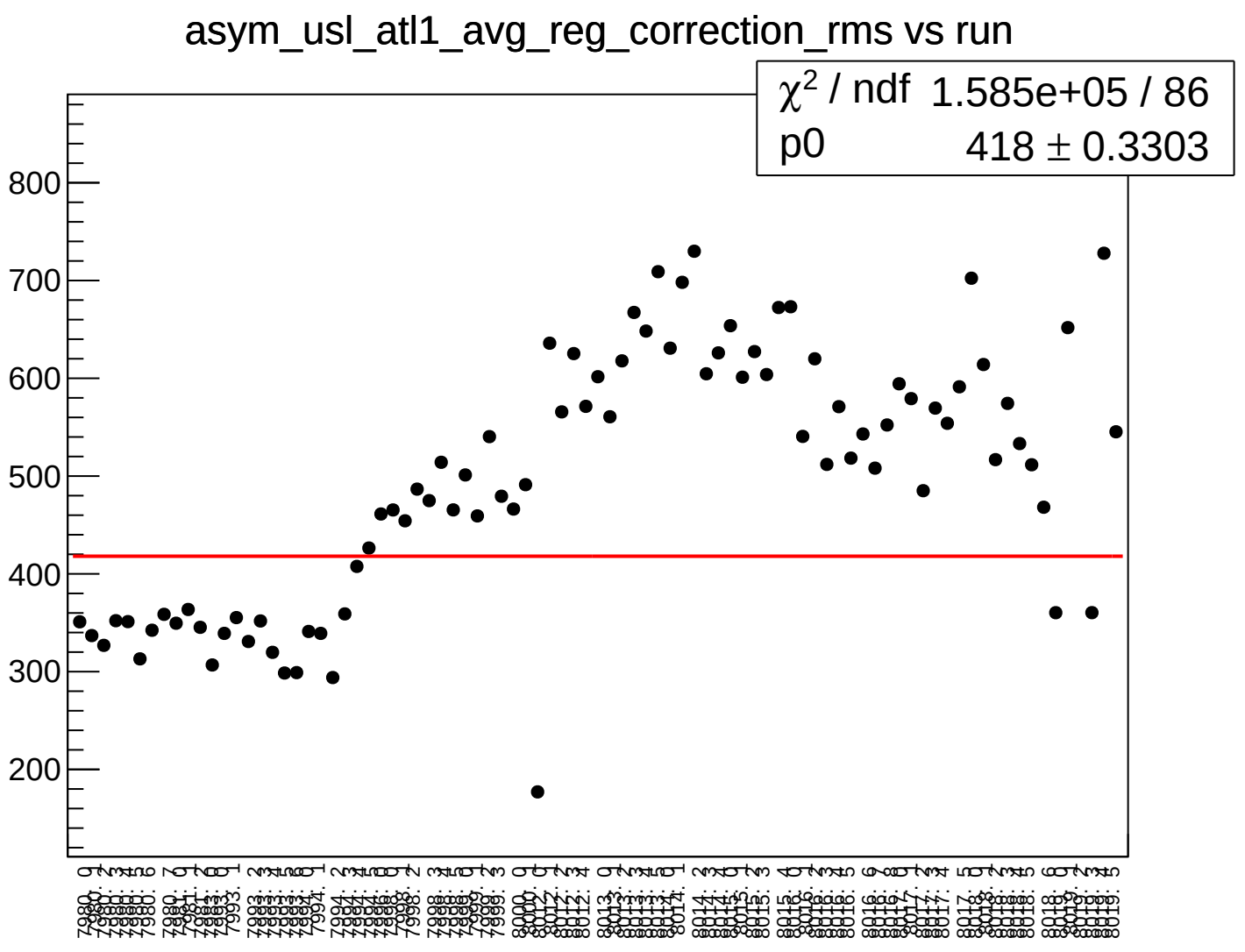

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.272e+05 / 86
p0 5.925e−11 ± 5.565e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

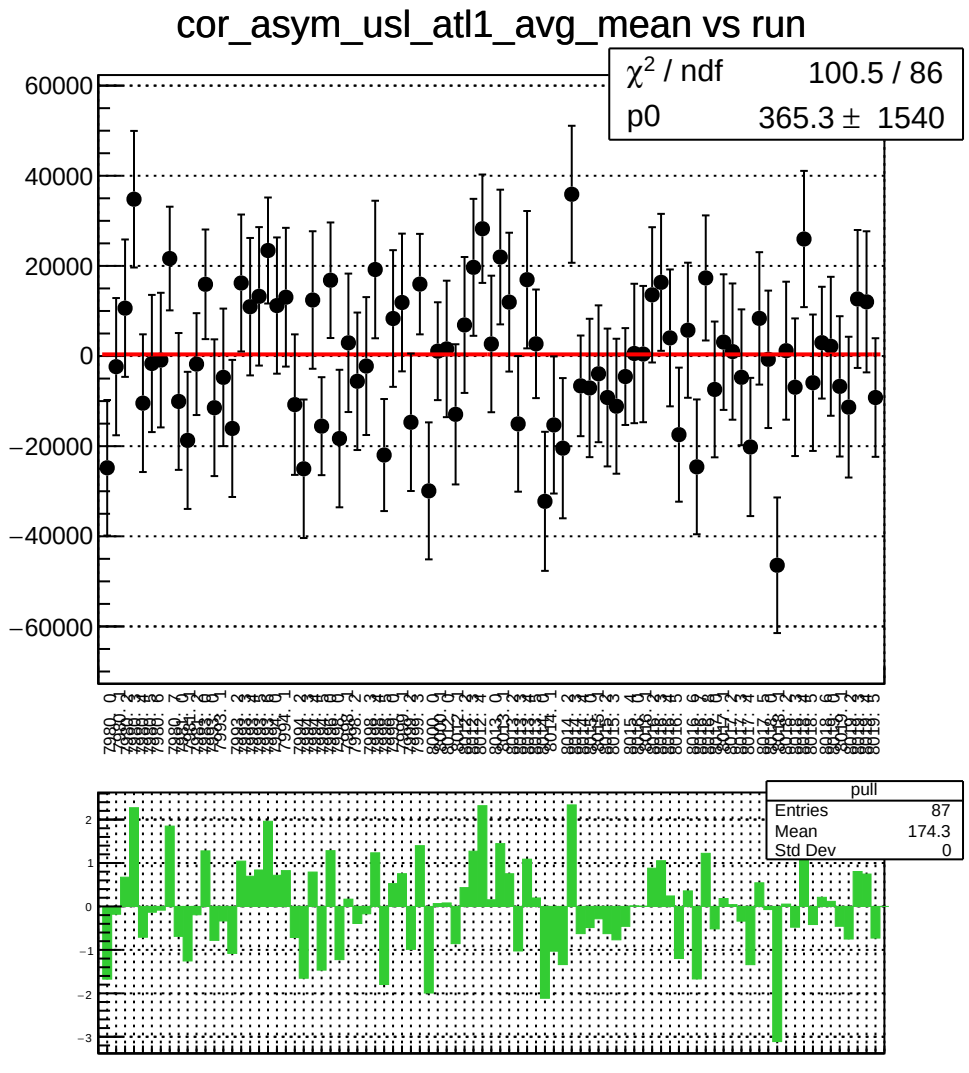

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 100.5 / 86
p0 365.3 ± 1540
pull
Entries 87
Mean 174.3
Std Dev 0
pull1D
Entries 87
Mean −0.01802
Std Dev 1.075

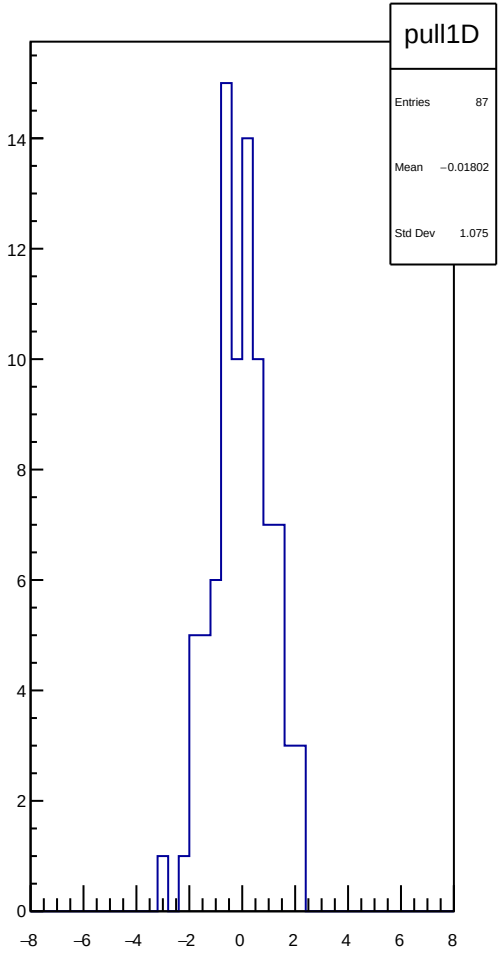

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 178.6 / 86
p0 1445 ± 1.089
1500
1480
1460
1440
1420
1400

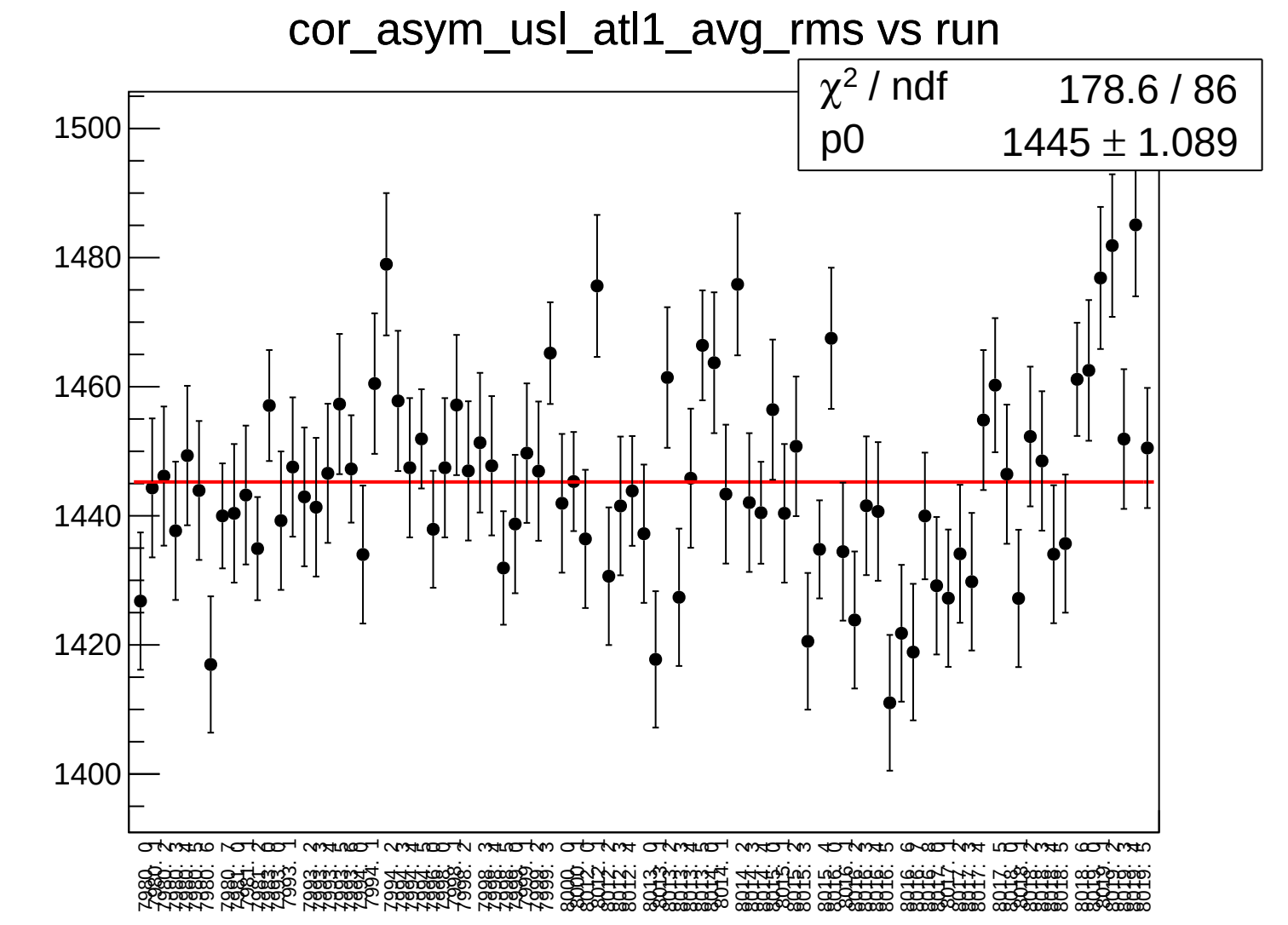

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 82.48 / 86
p0 −1087 ± 467.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −34.81
Std Dev 0
2
1
0
−1
−2
−3

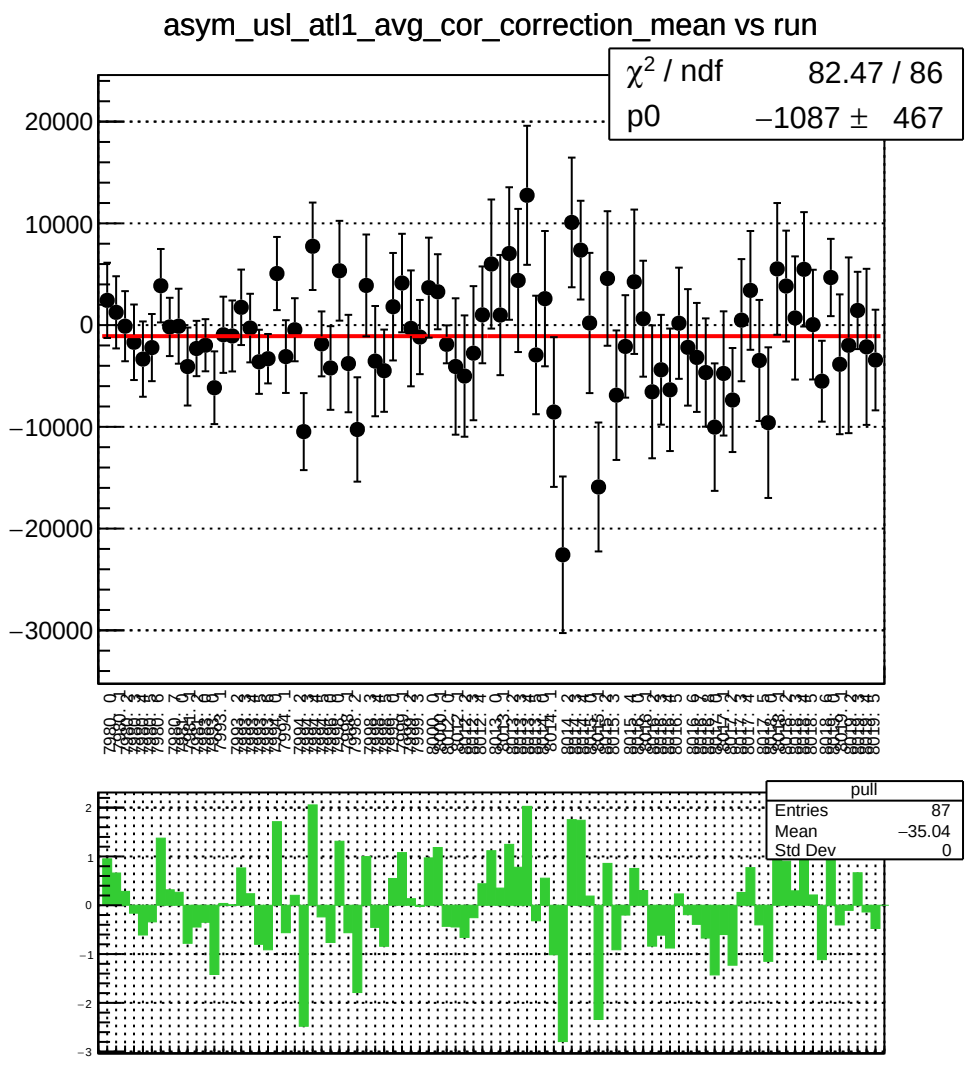

pull1D
Entries 87
Mean 0.008575
Std Dev 0.9736
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

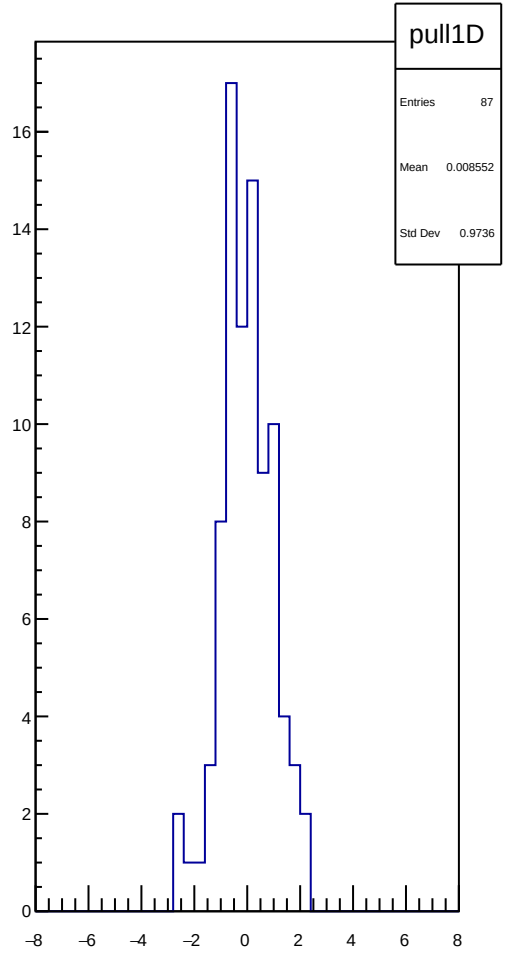

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.585e+05 / 86
p0 418 ± 0.3303
800
700
600
500
400
300
200

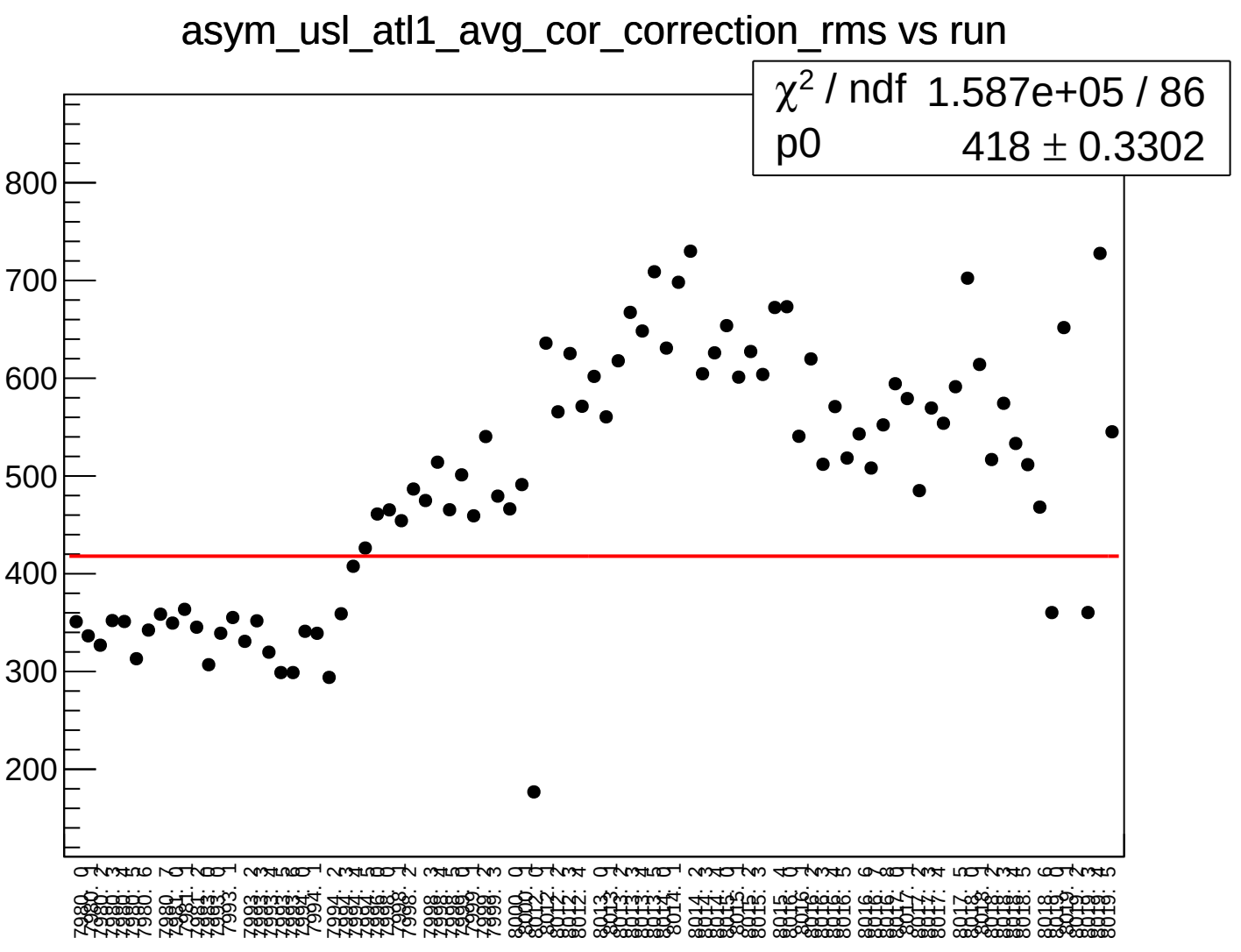

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 100.5 / 86
p0 365.3 ± 1540
pull
Entries 87
Mean 174.3
Std Dev 0

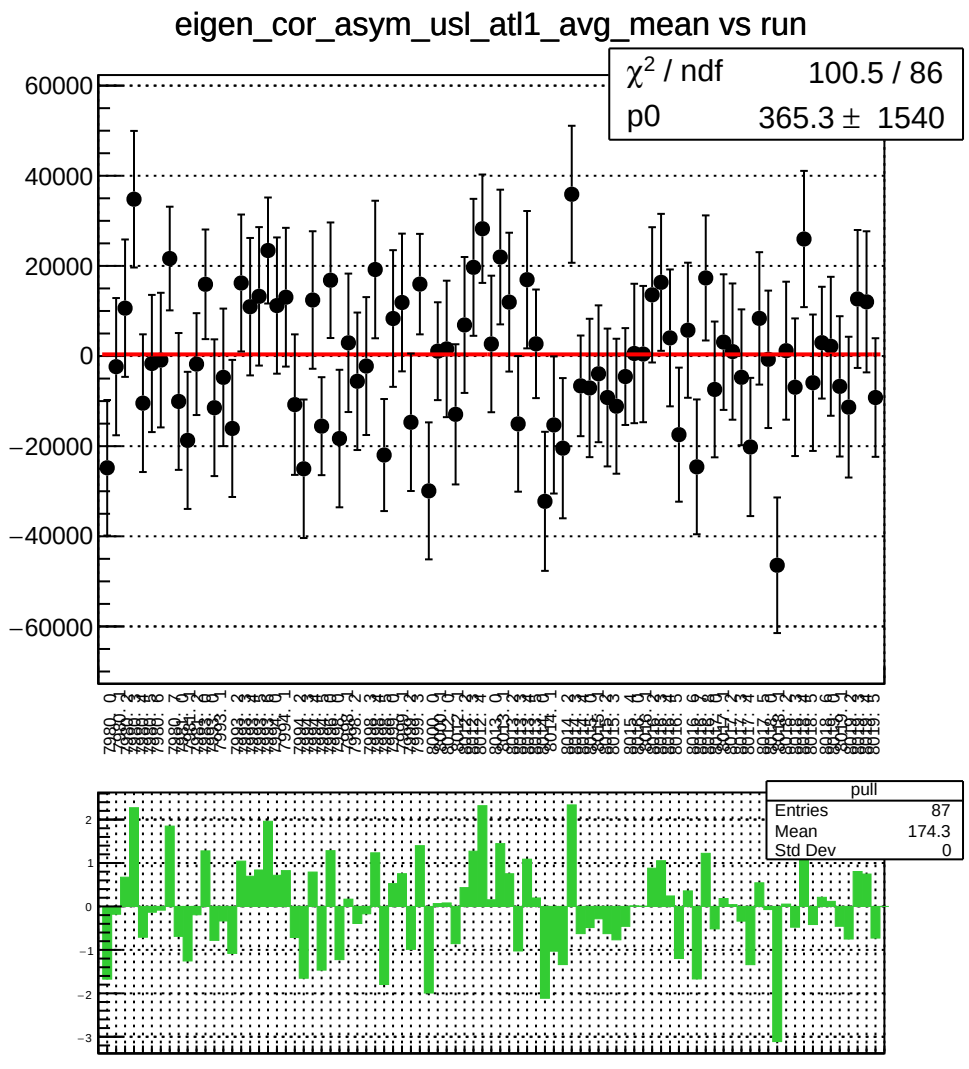

pull1D
Entries 87
Mean −0.01802
Std Dev 1.075

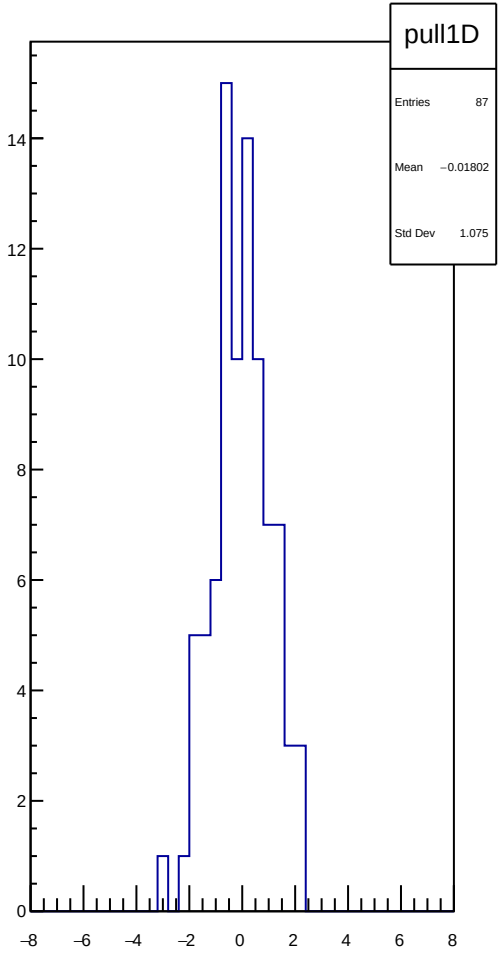

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 178.6 / 86
p0 1445 ± 1.089
1500
1480
1460
1440
1420
1400

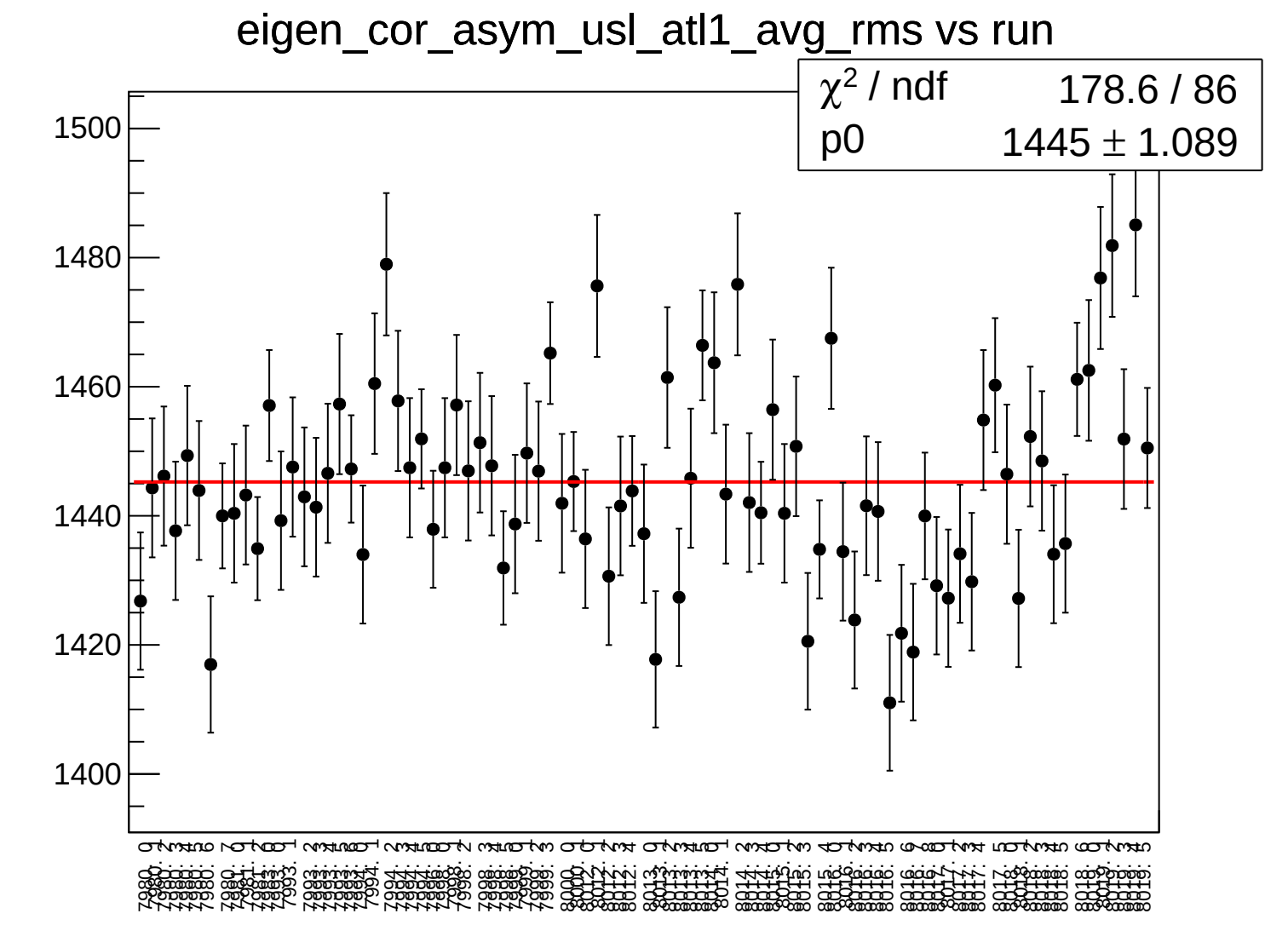

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 82.47 / 86
p0 −1087 ± 467
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −35.04
Std Dev 0
2
1
0
−1
−2
−3

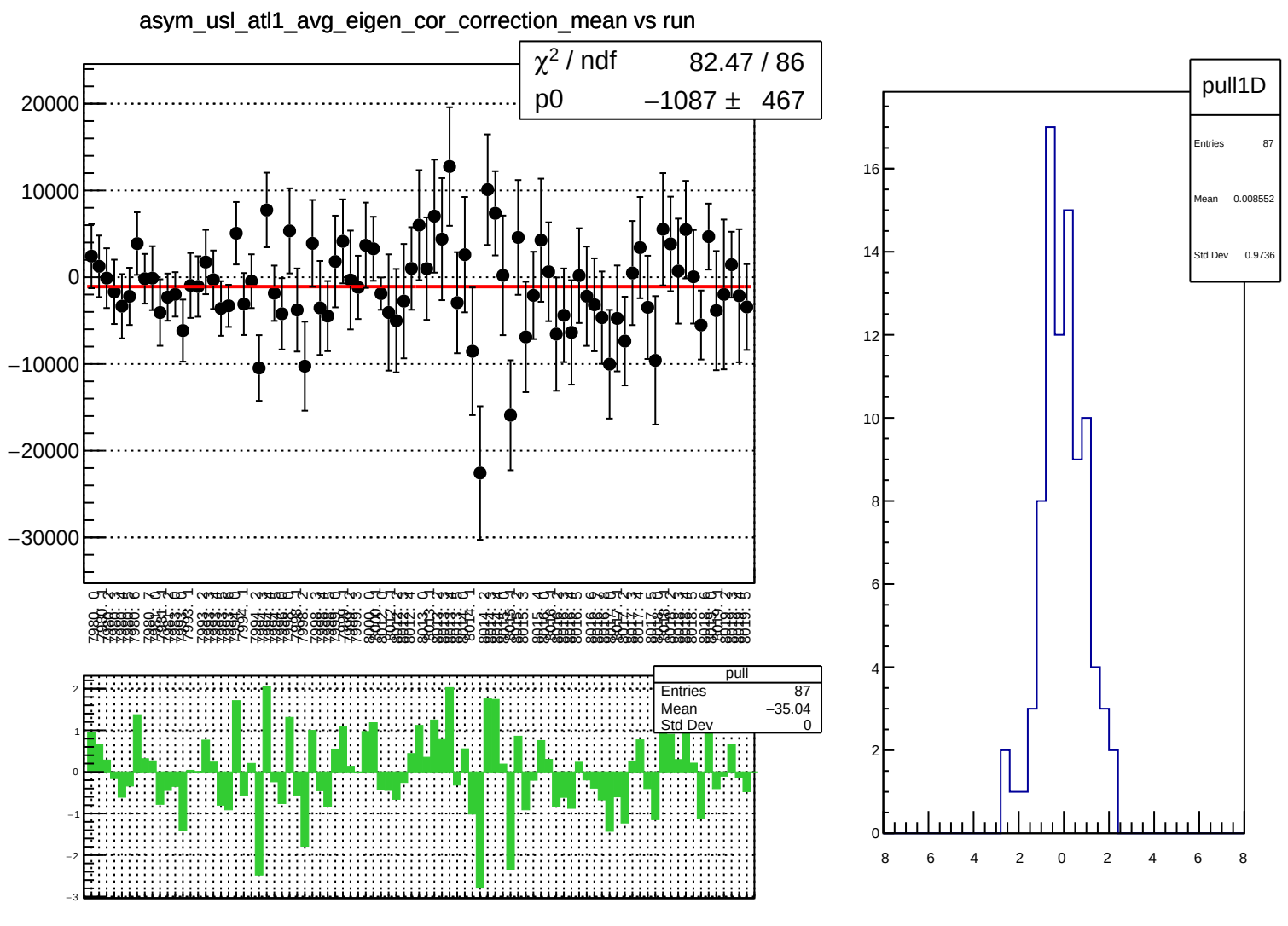

pull1D
Entries 87
Mean 0.008552
Std Dev 0.9736
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

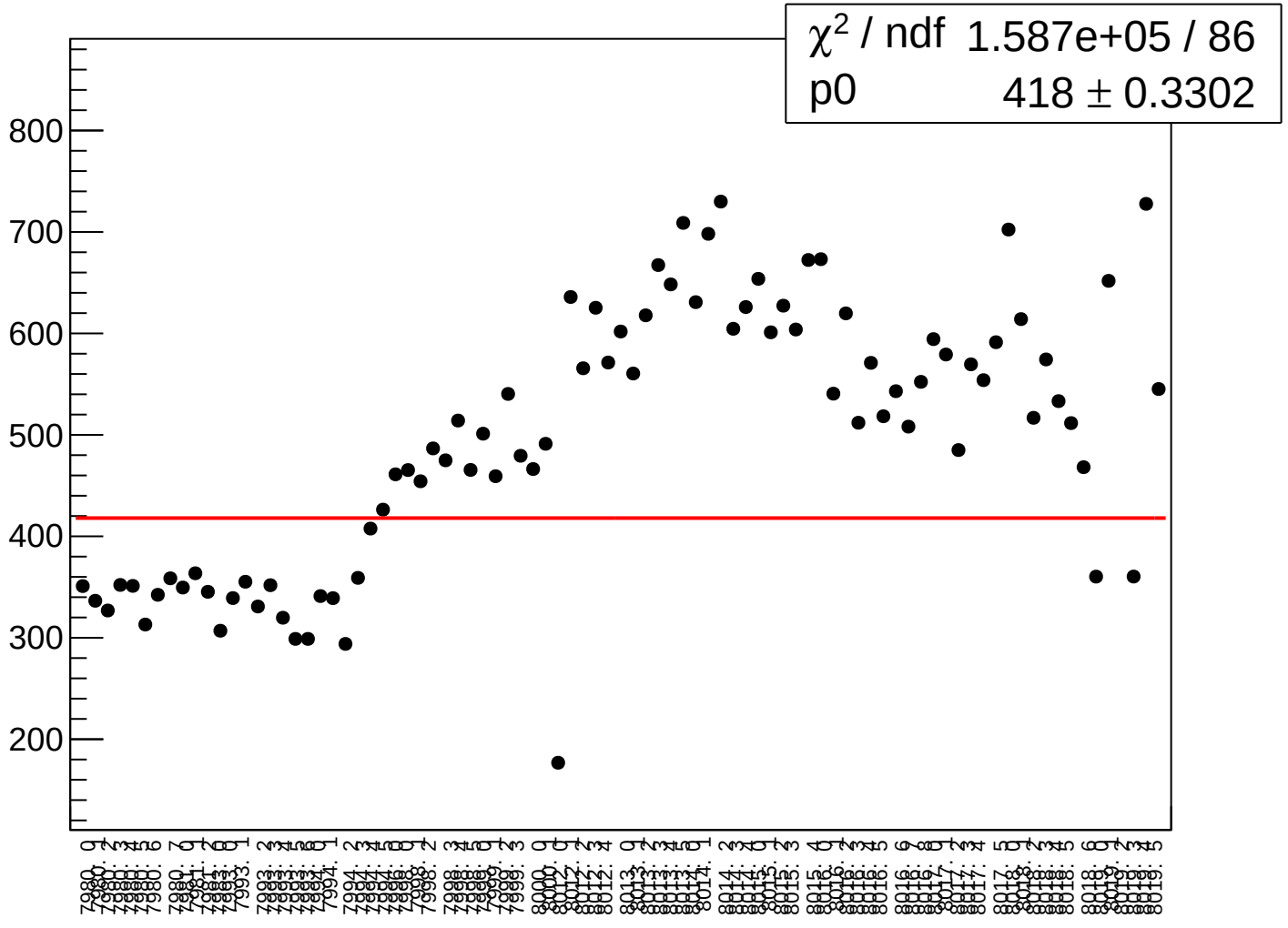

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.587e+05 / 86
p0 418 ± 0.3302
800
700
600
500
400
300
200

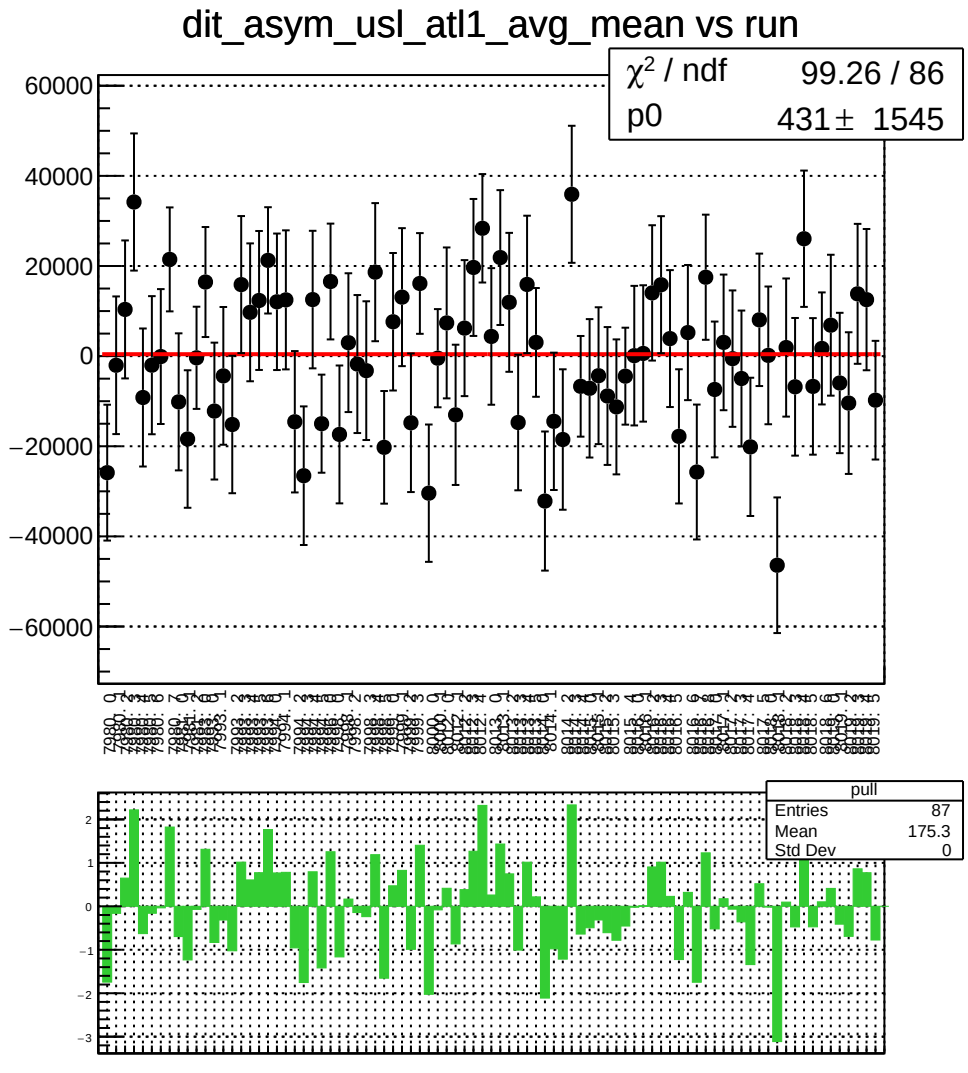

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 100.5 / 86
p0 365.3 ± 1540
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 174.3
Std Dev 0
2
1
0
−1
−2
−3

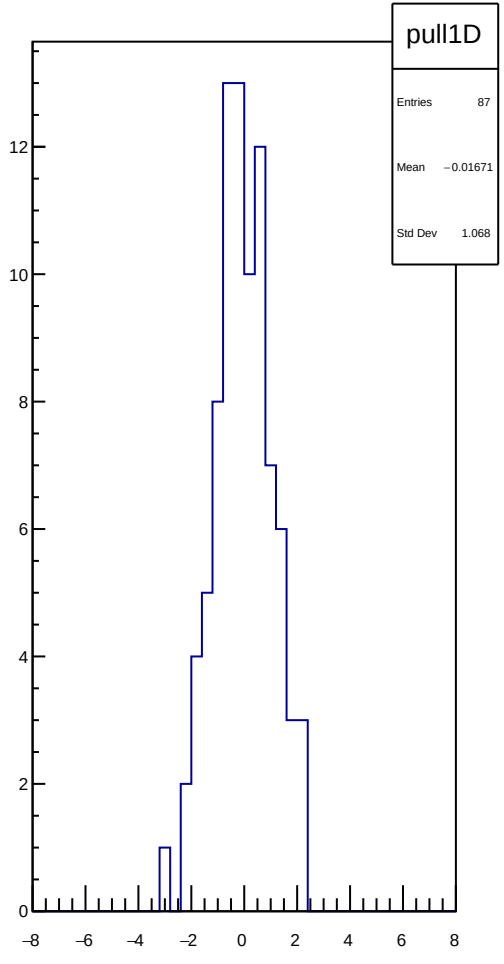

pull1D
Entries 87
Mean −0.01802
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

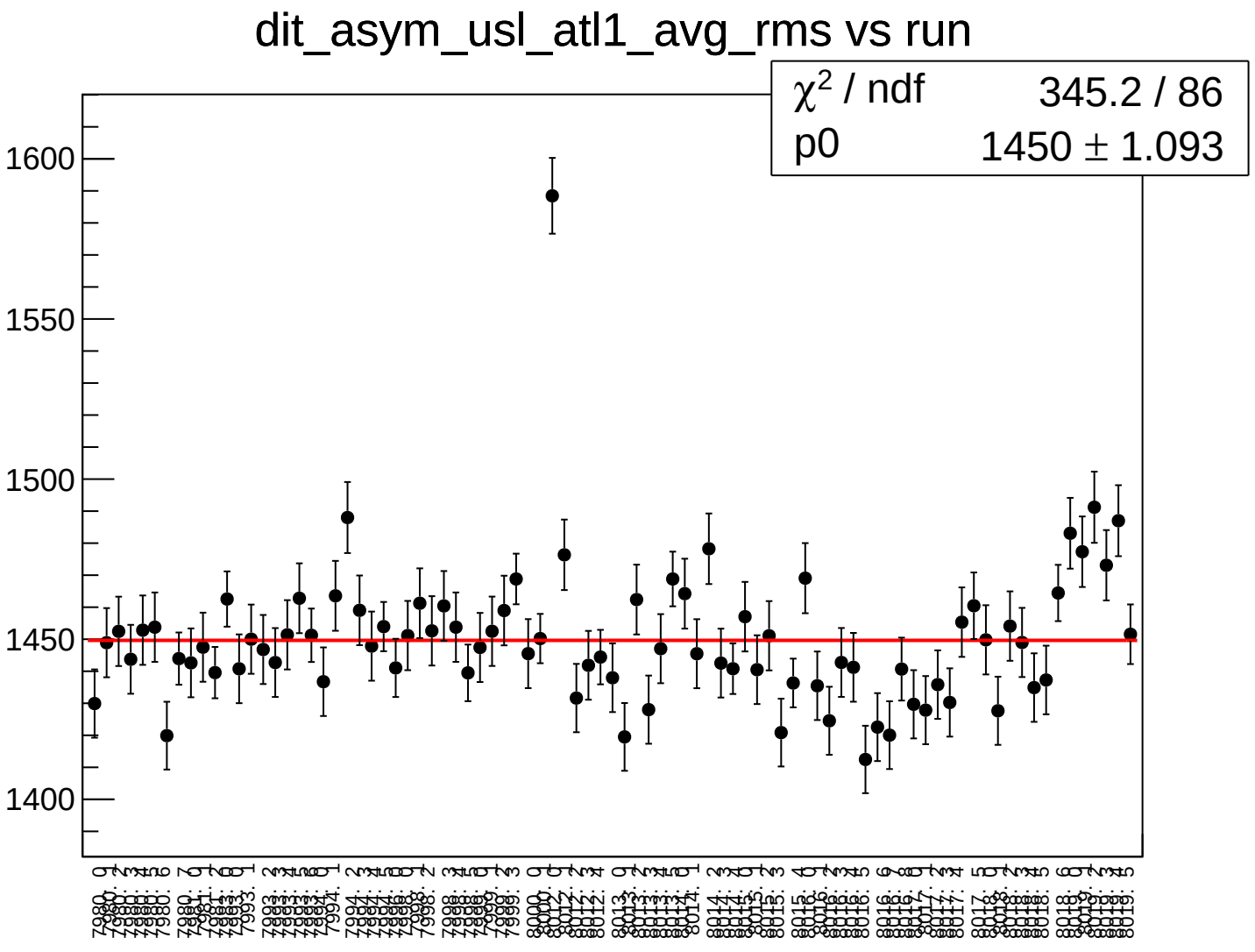

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 178.6 / 86
p0 1445 ± 1.089
1500
1480
1460
1440
1420
1400

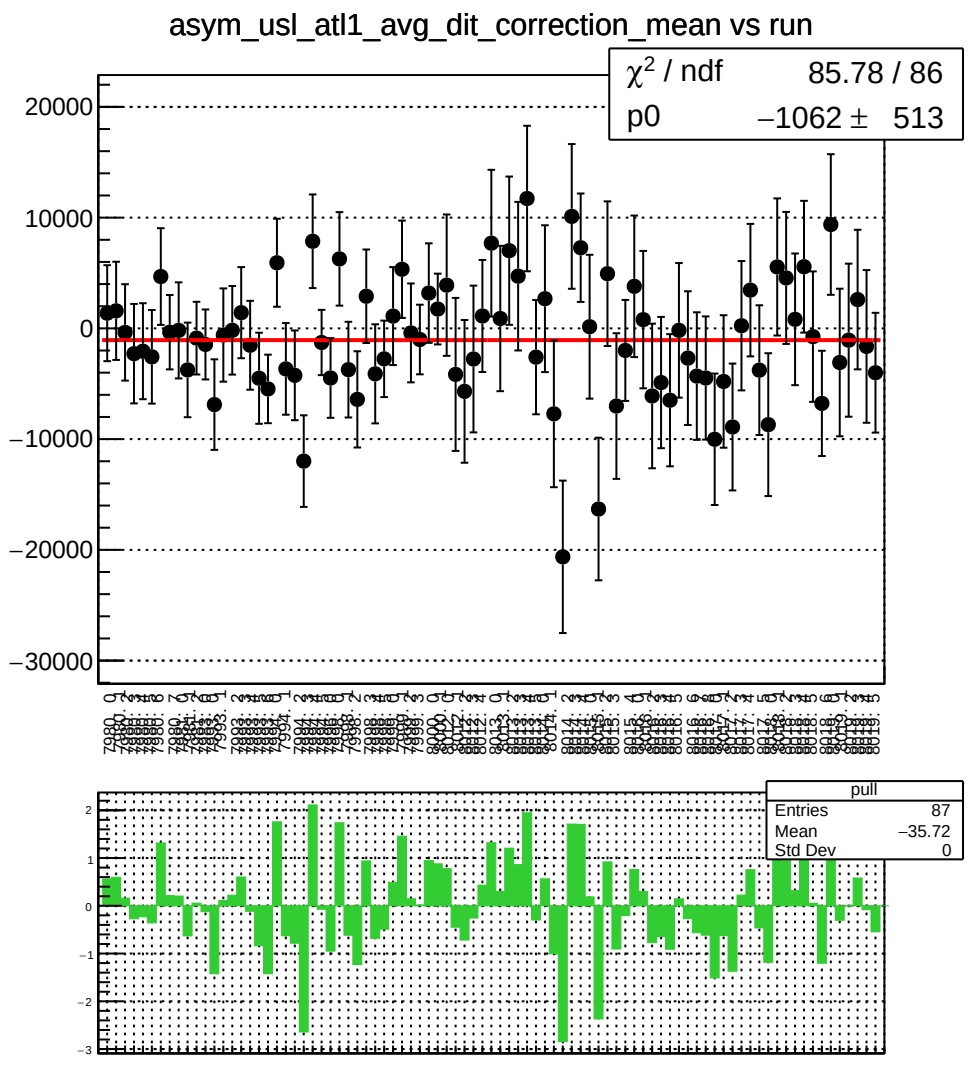

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.47 / 86
p0 −1087 ± 467
pull
Entries 87
Mean −35.04
Std Dev 0
pull1D
Entries 87
Mean 0.008552
Std Dev 0.9736

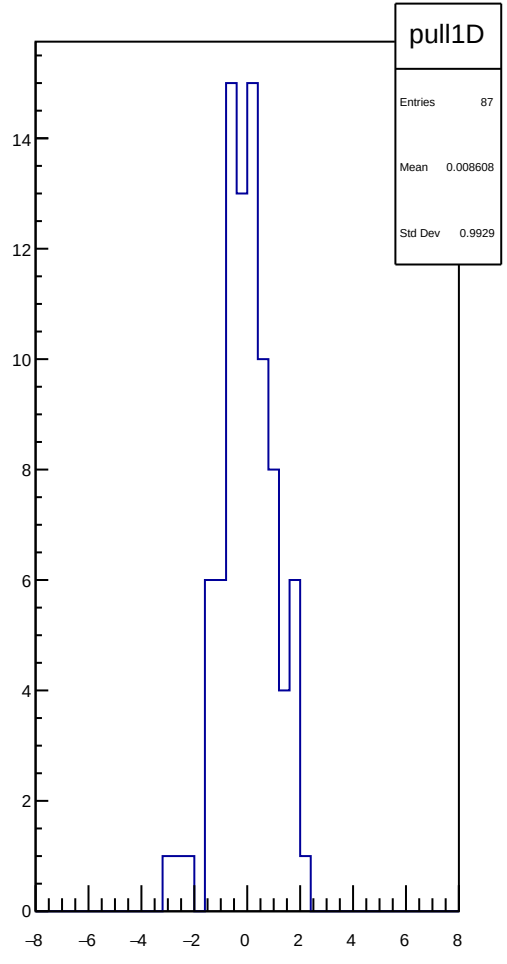

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.587e+05 / 86
p0 418 ± 0.3302
800
700
600
500
400
300
200

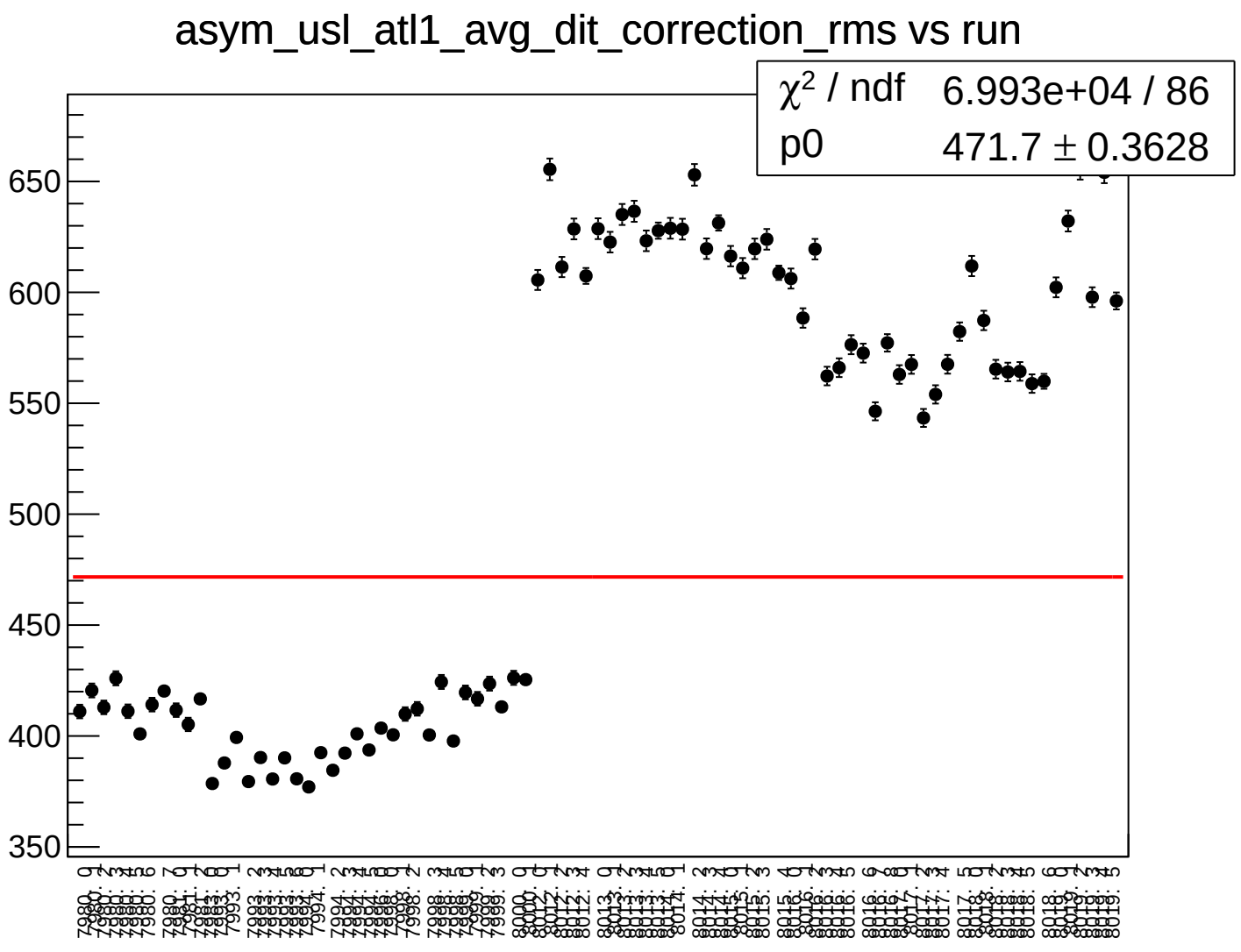

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 99.26 / 86
p0 431 ± 1545
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 175.3
Std Dev 0
2
1
0
−1
−2
−3

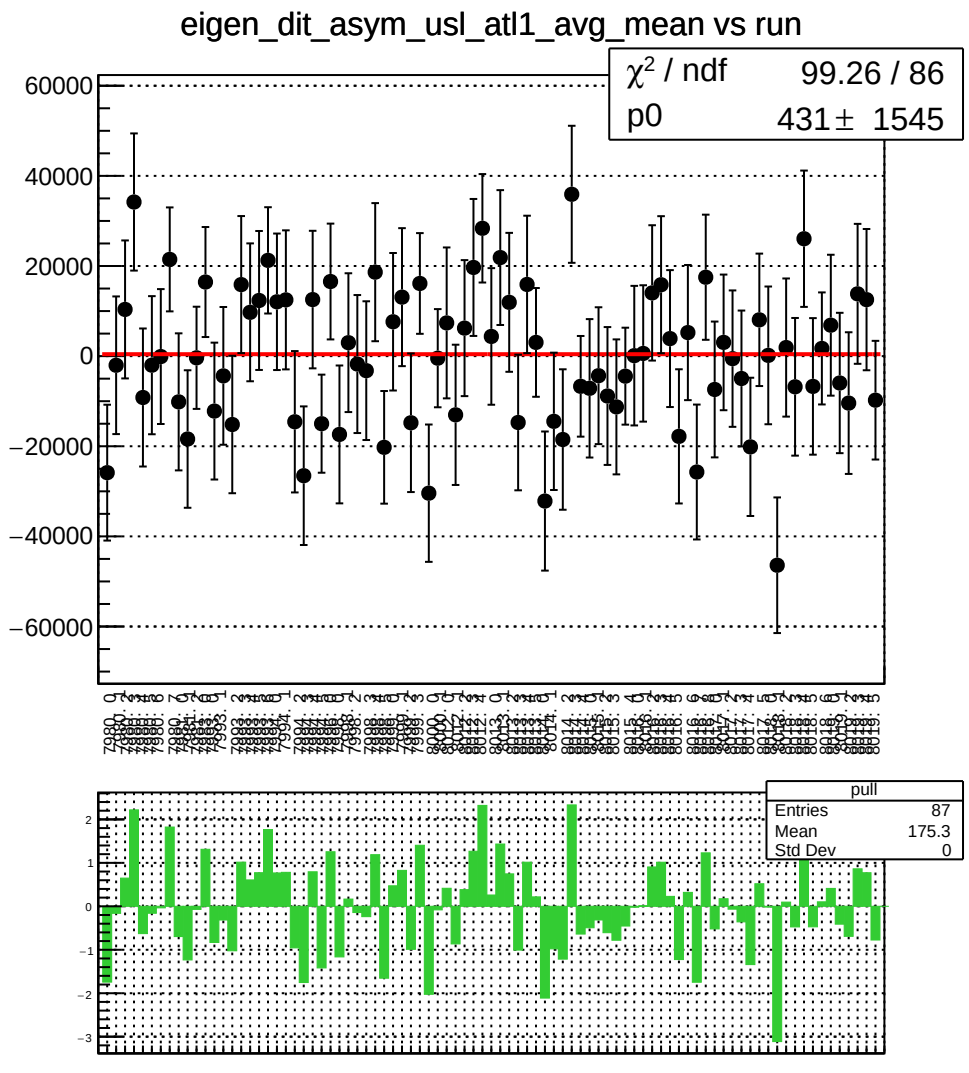

pull1D
Entries 87
Mean −0.01671
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

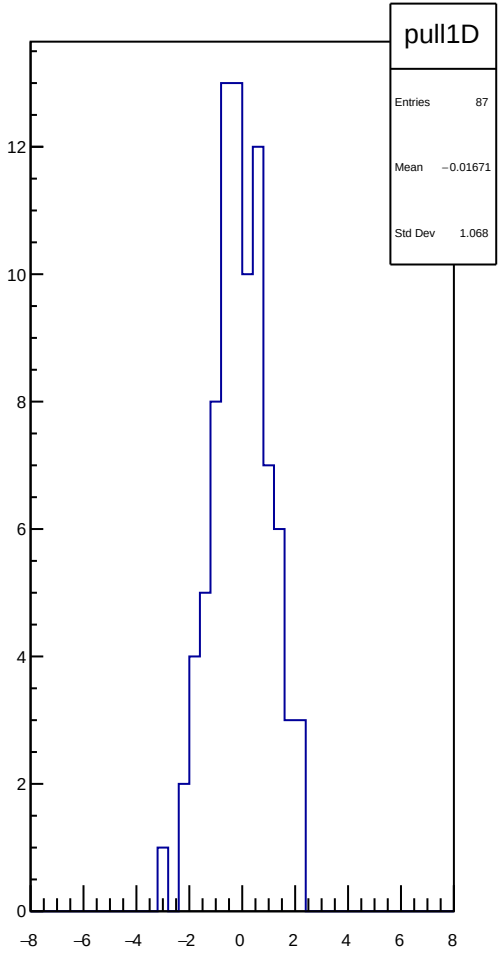

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 345.2 / 86
p0 1450 ± 1.093
1600
1550
1500
1450
1400

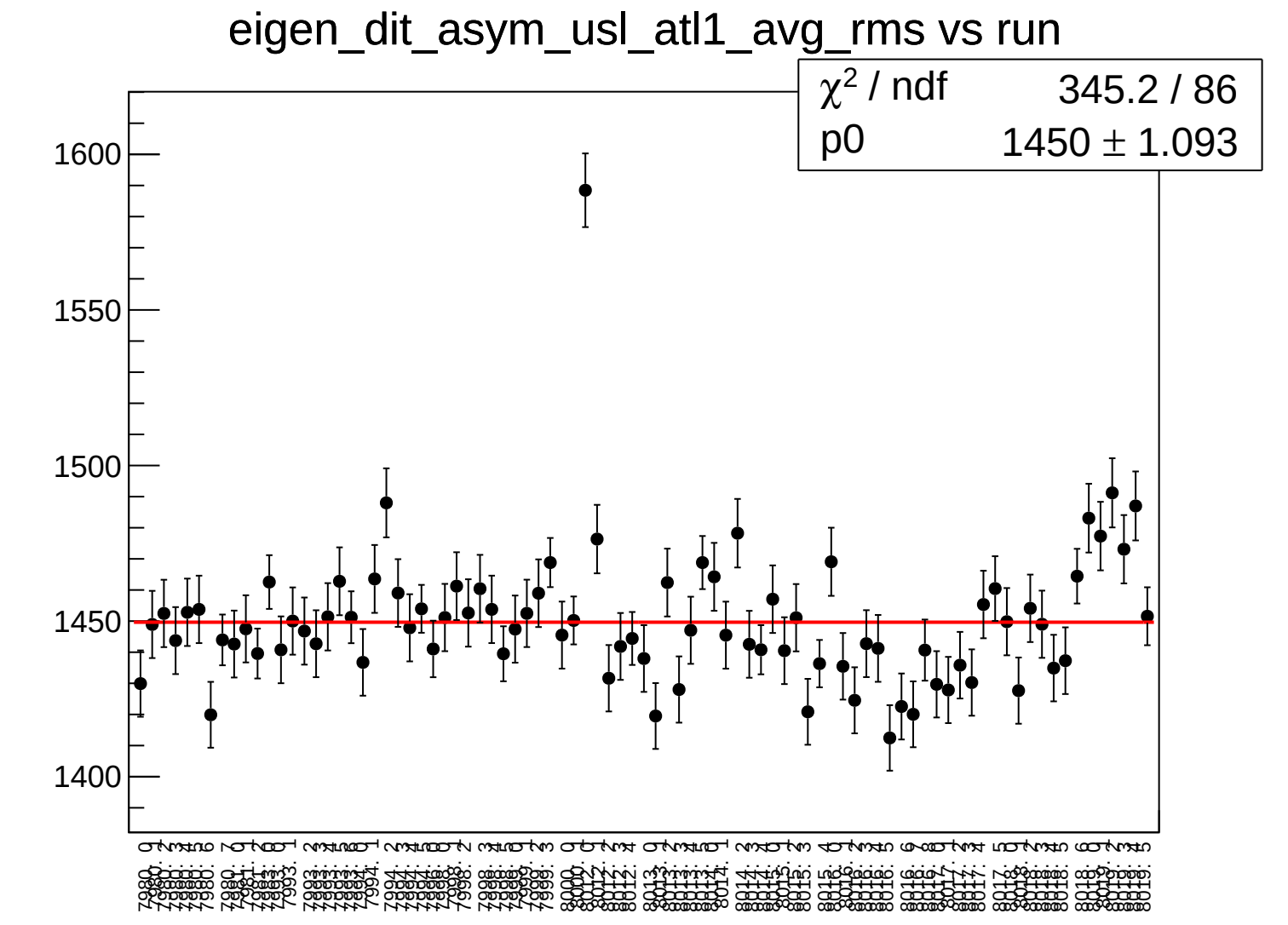

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 85.78 / 86
p0 −1062 ± 513
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −35.72
Std Dev 0
2
1
0
−1
−2
−3

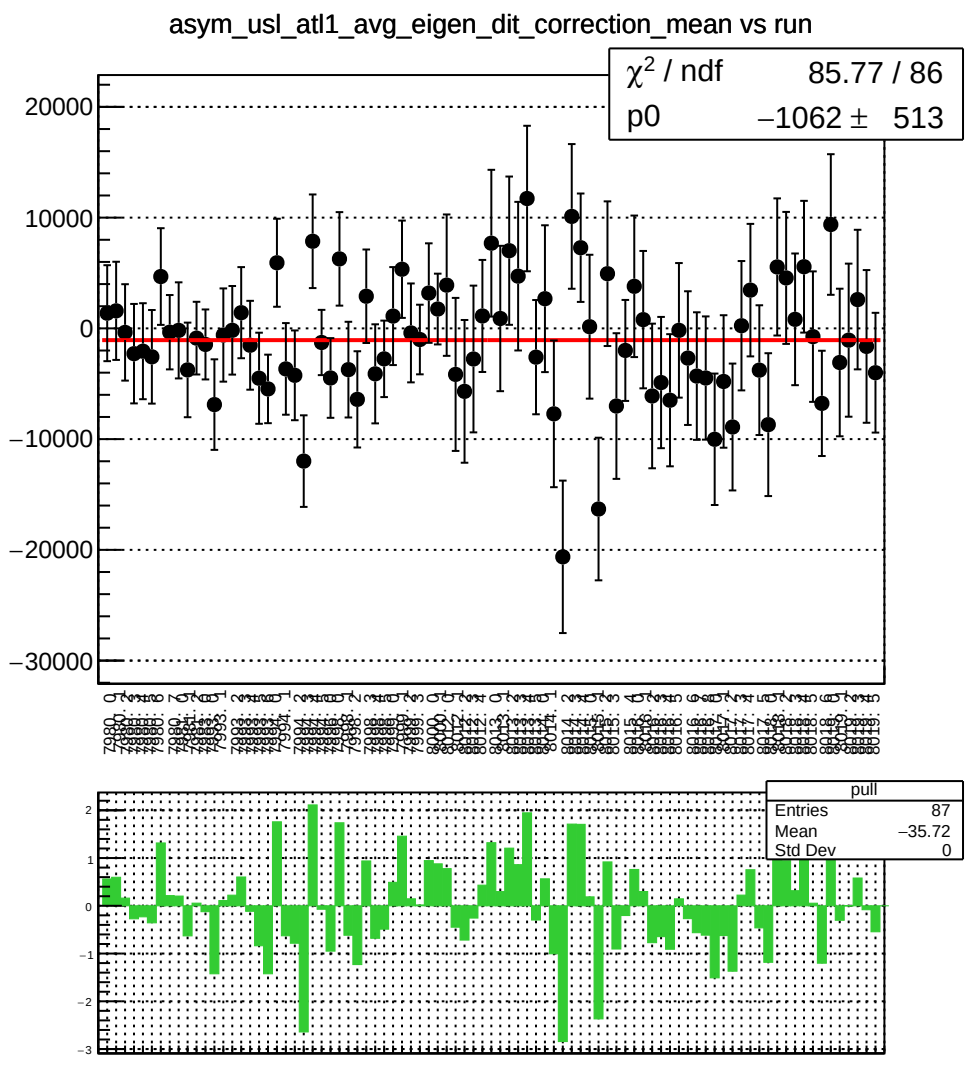

pull1D
Entries 87
Mean 0.008608
Std Dev 0.9929
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

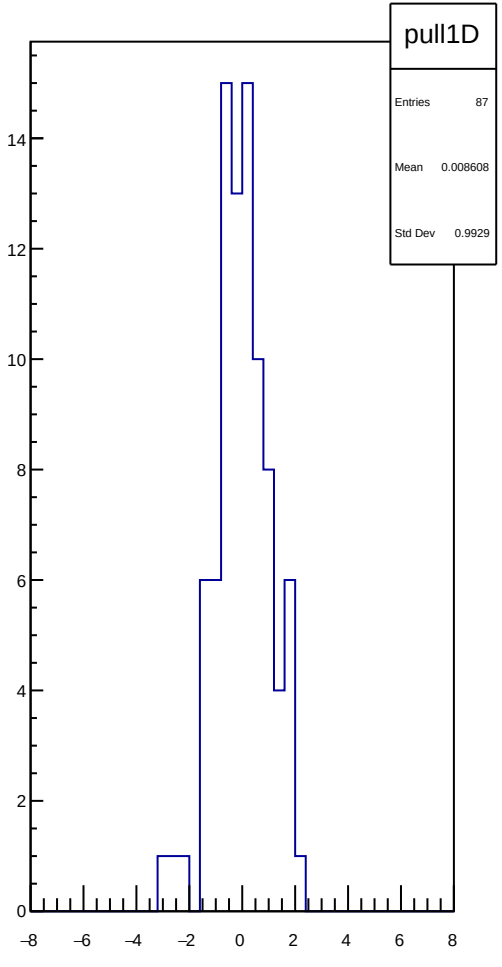

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 6.993e+04 / 86
p0 471.7 ± 0.3628
650
600
550
500
450
400
350

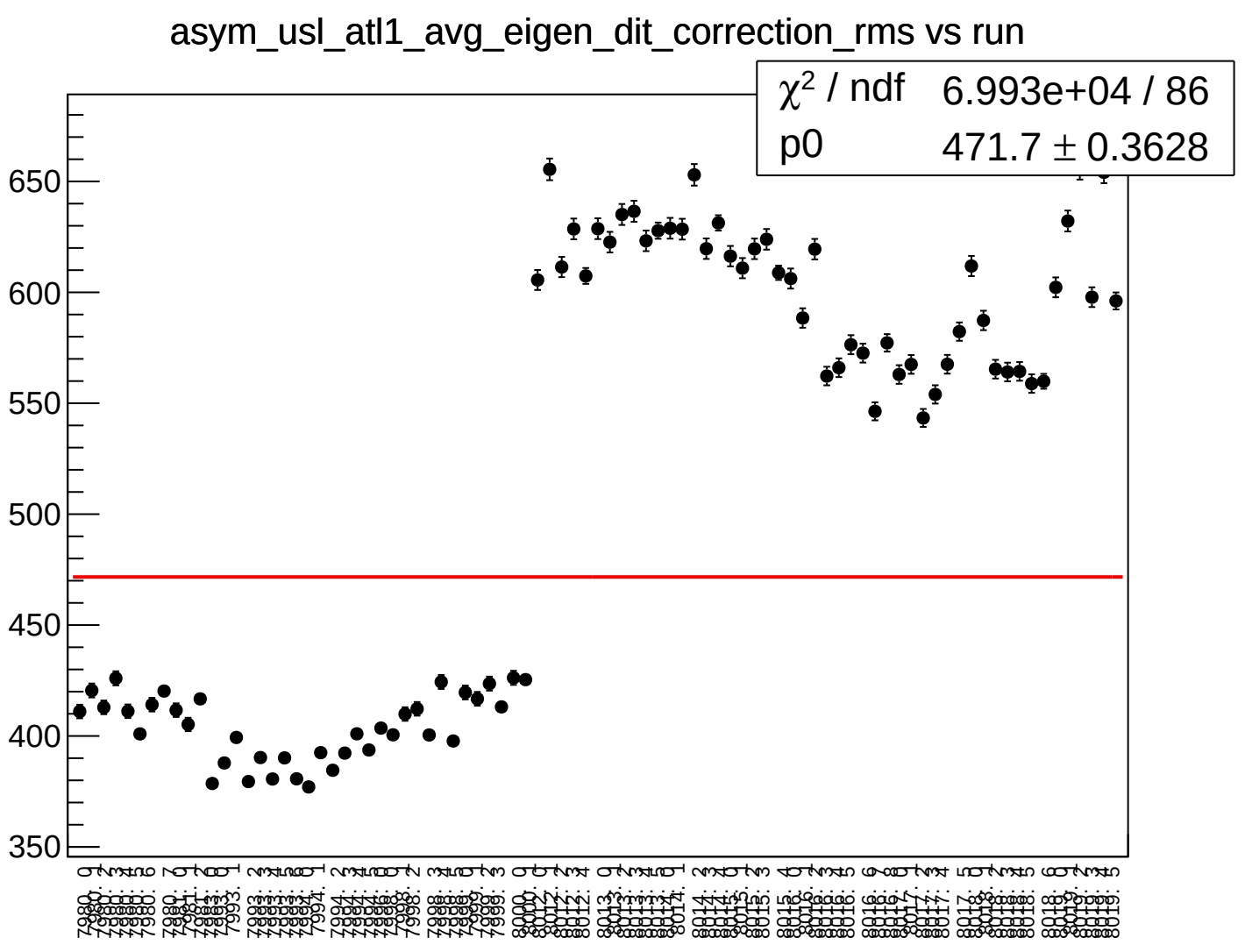

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 99.26 / 86
p0 431 ± 1545
pull
Entries 87
Mean 175.3
Std Dev 0

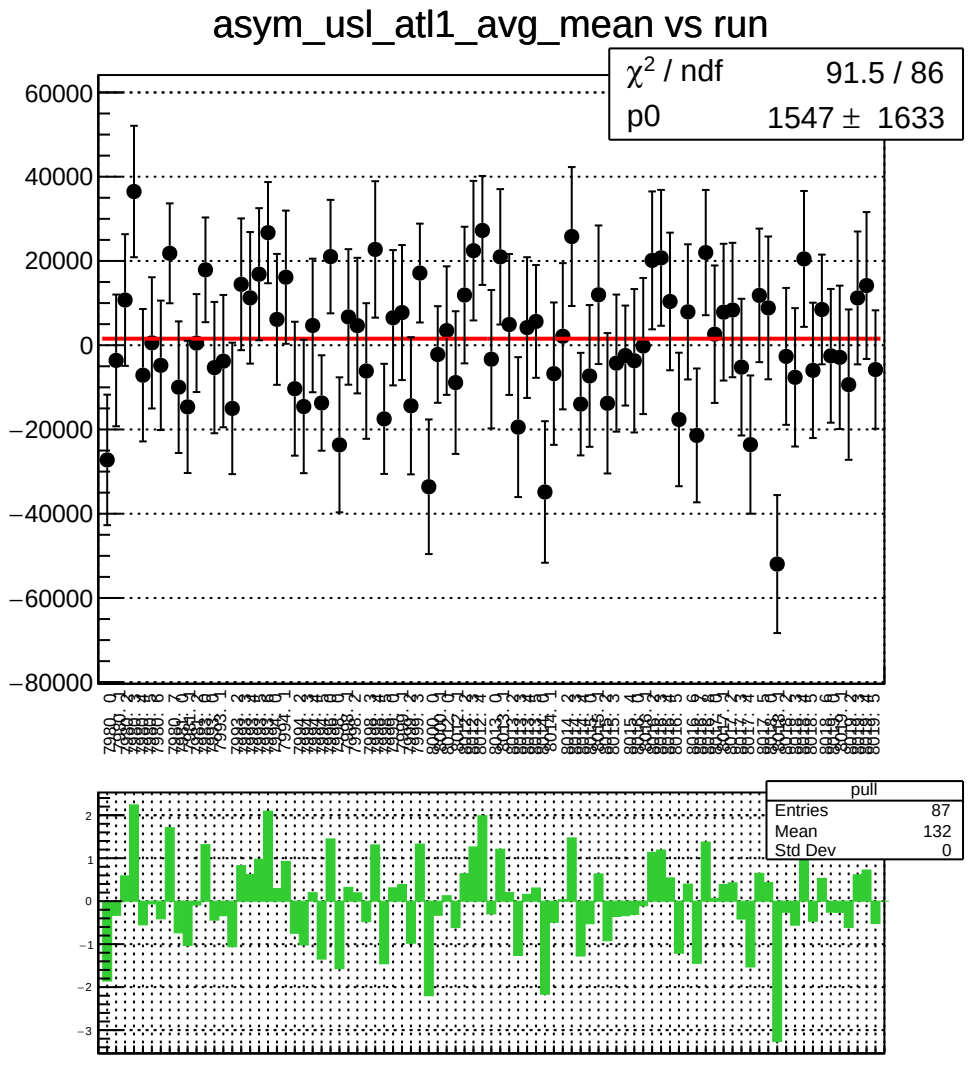

pull1D
Entries 87
Mean −0.01671
Std Dev 1.068

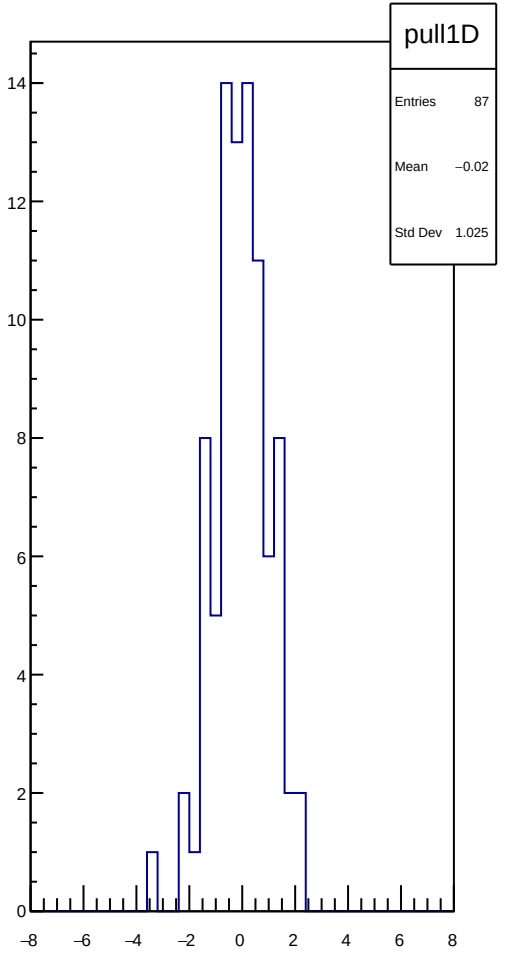

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 345.2 / 86
p0 1450 ± 1.093
1600
1550
1500
1450
1400

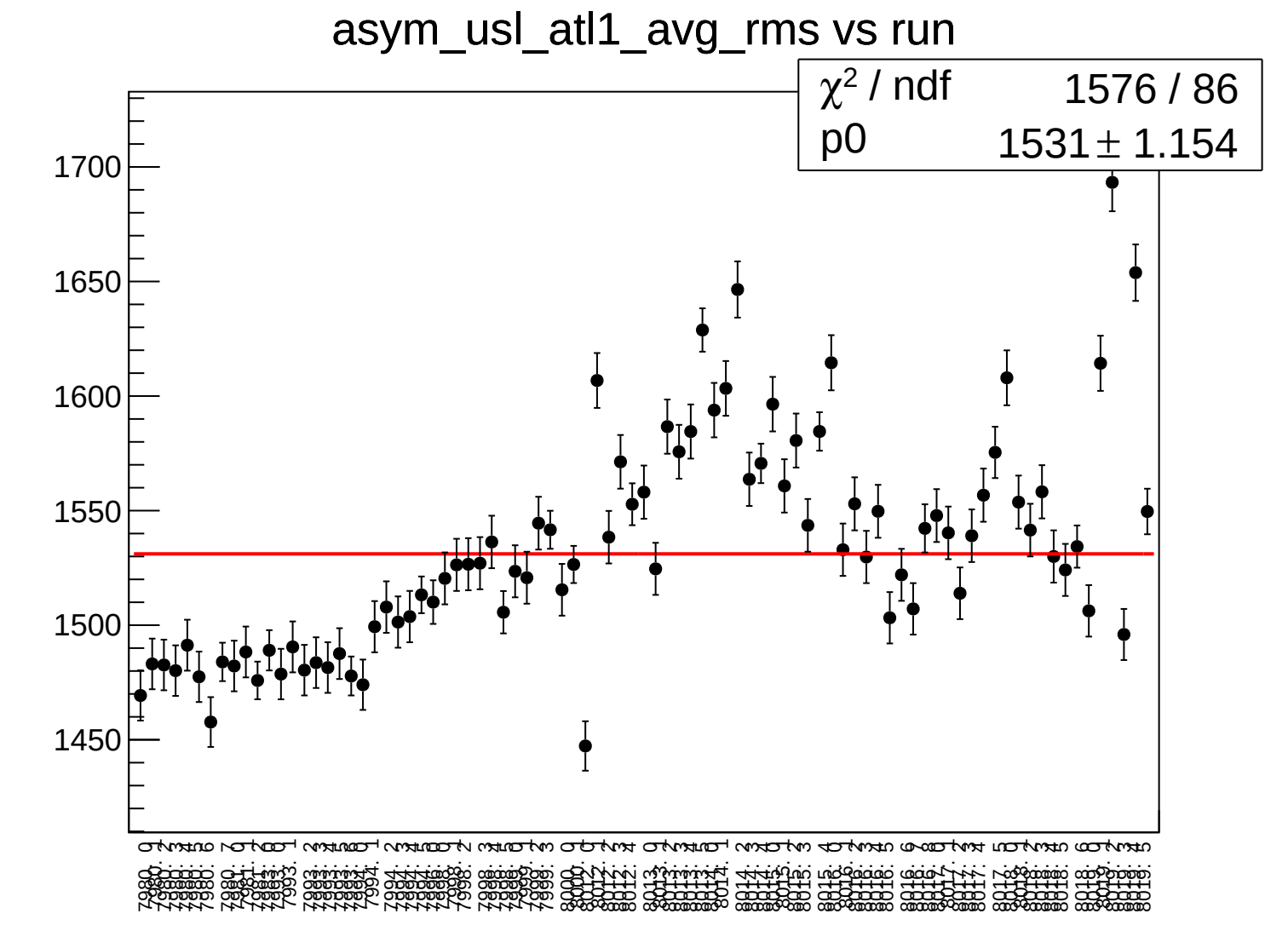

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.77 / 86
p0 −1062 ± 513
pull
Entries 87
Mean −35.72
Std Dev 0

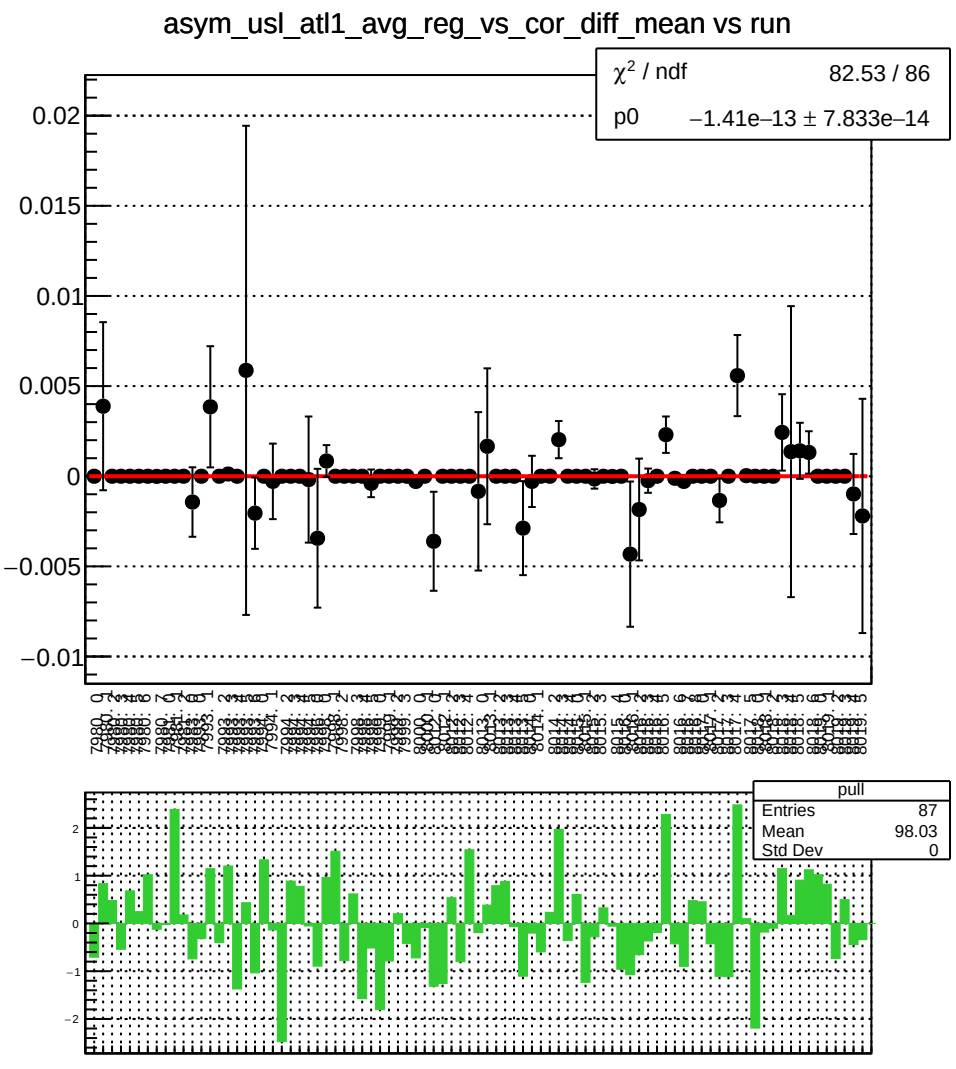

pull1D
Entries 87
Mean 0.008608
Std Dev 0.9929

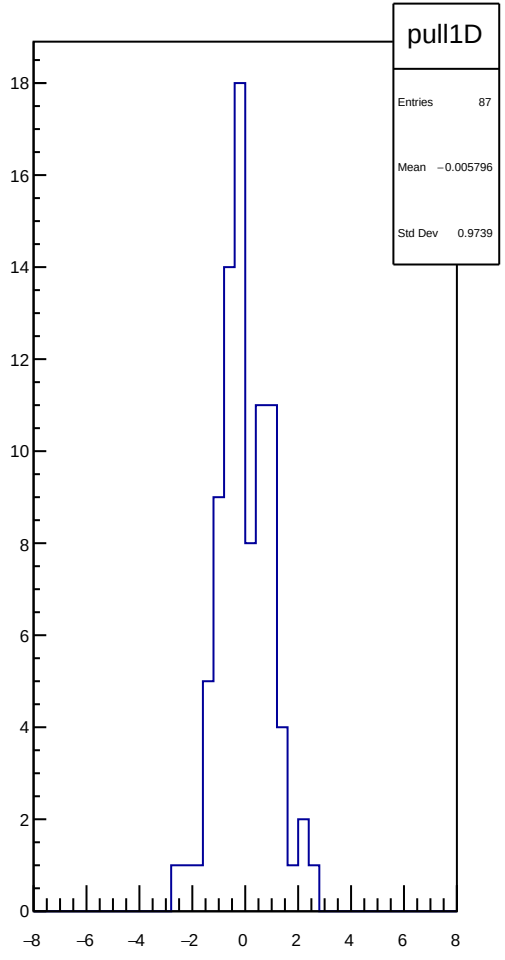

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.993e+04 / 86
p0 471.7 ± 0.3628
650
600
550
500
450
400
350

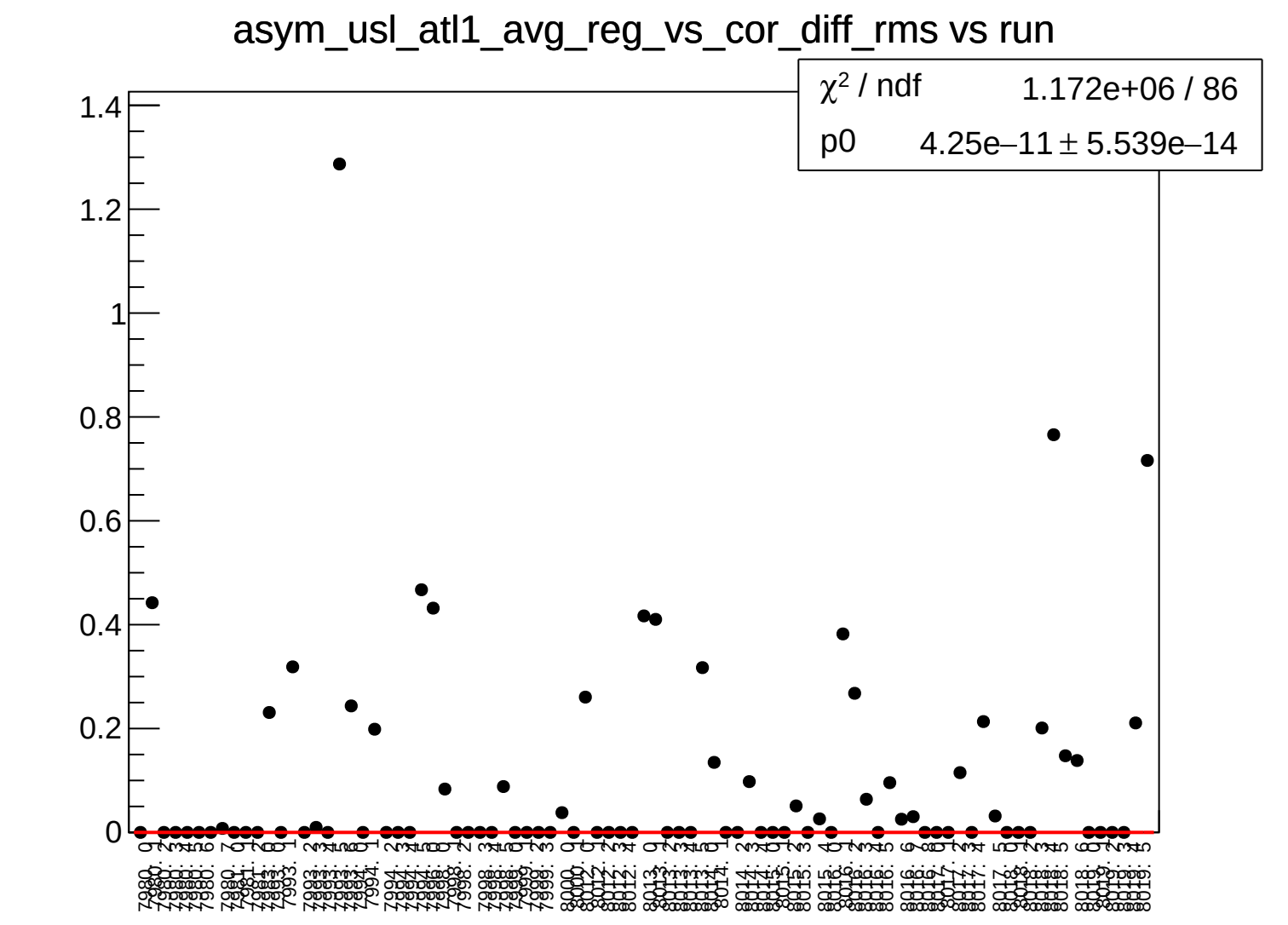

asym_usl_atl1_avg_mean vs run
χ² / ndf 91.5 / 86
p0 1547 ± 1633
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 132
Std Dev 0
2
1
0
−1
−2
−3

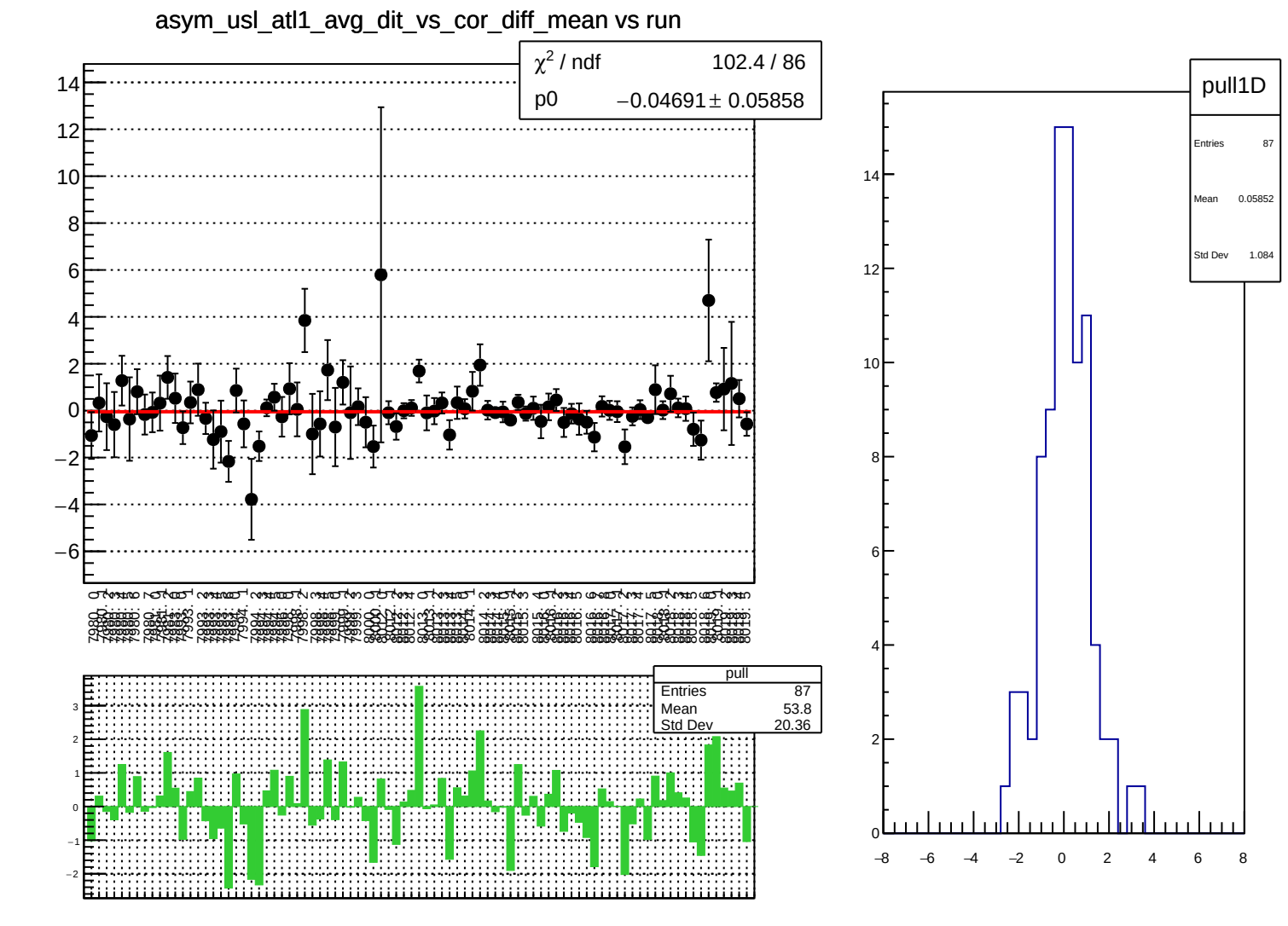

pull1D
Entries 87
Mean −0.02
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

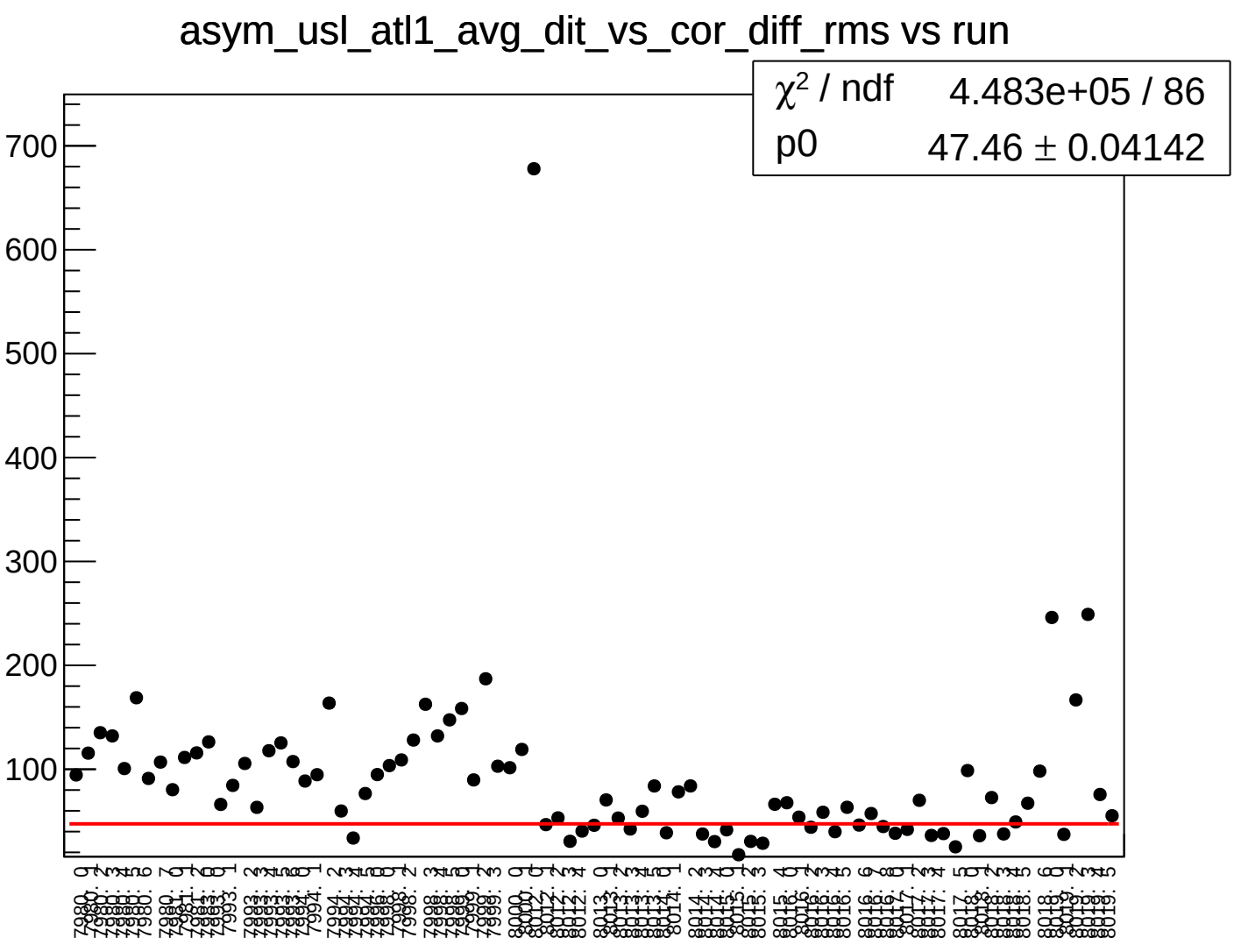

asym_usl_atl1_avg_rms vs run
χ² / ndf 1576 / 86
p0 1531 ± 1.154
1700
1650
1600
1550
1500
1450

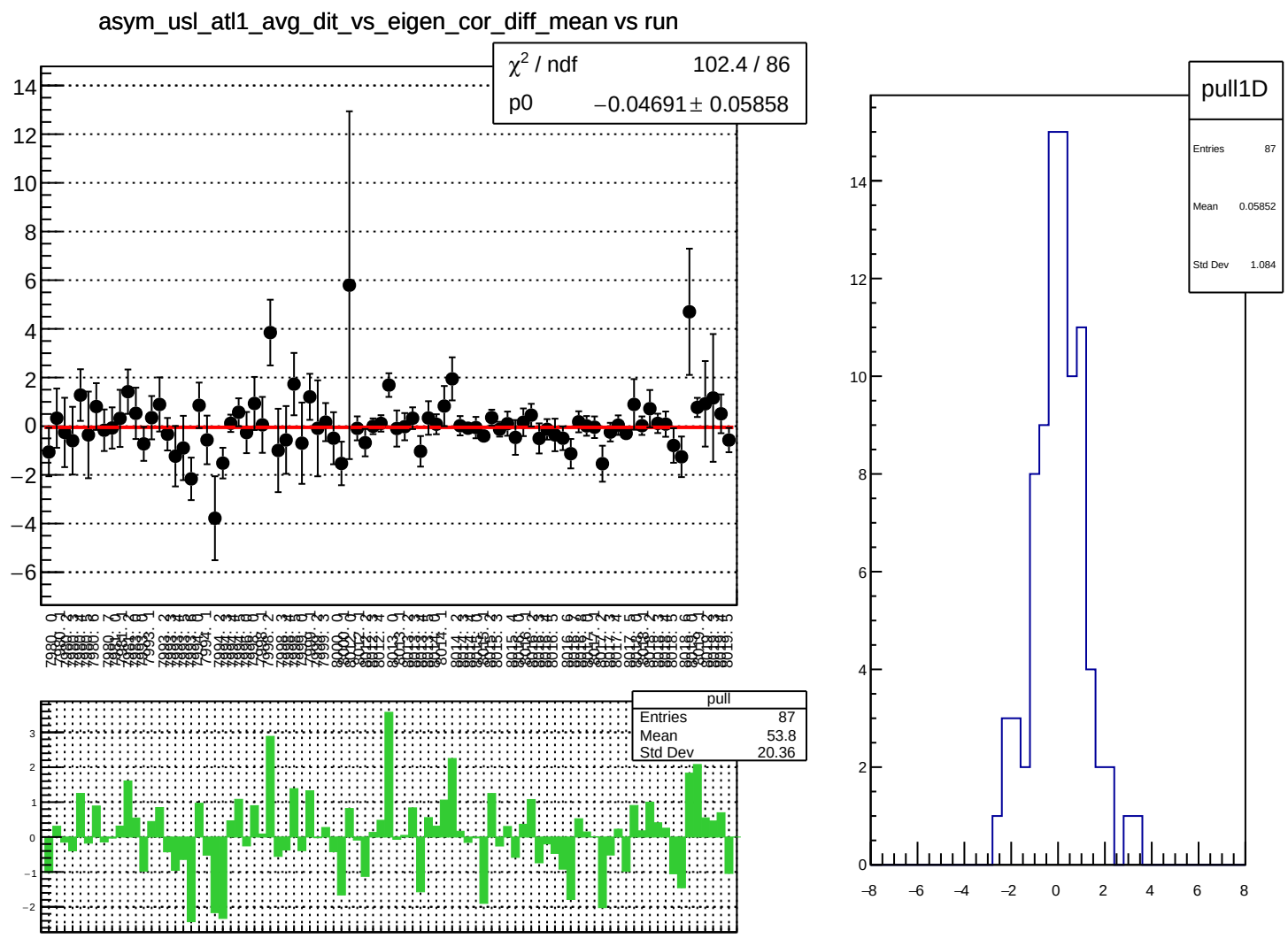

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.53 / 86
p0 −1.41e−13 ± 7.833e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 98.03
Std Dev 0
2
1
0
−1
−2

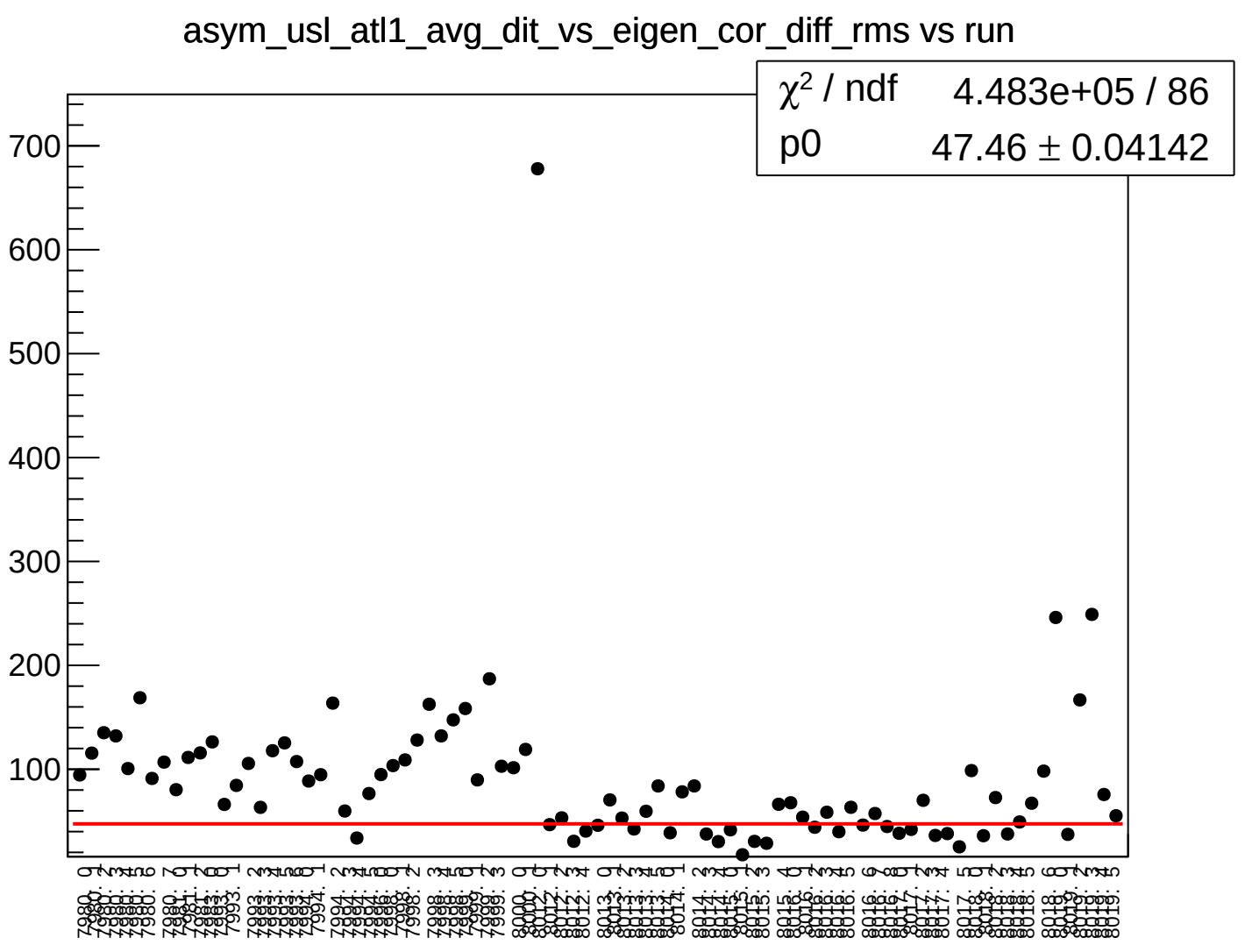

pull1D
Entries 87
Mean −0.005796
Std Dev 0.9739
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

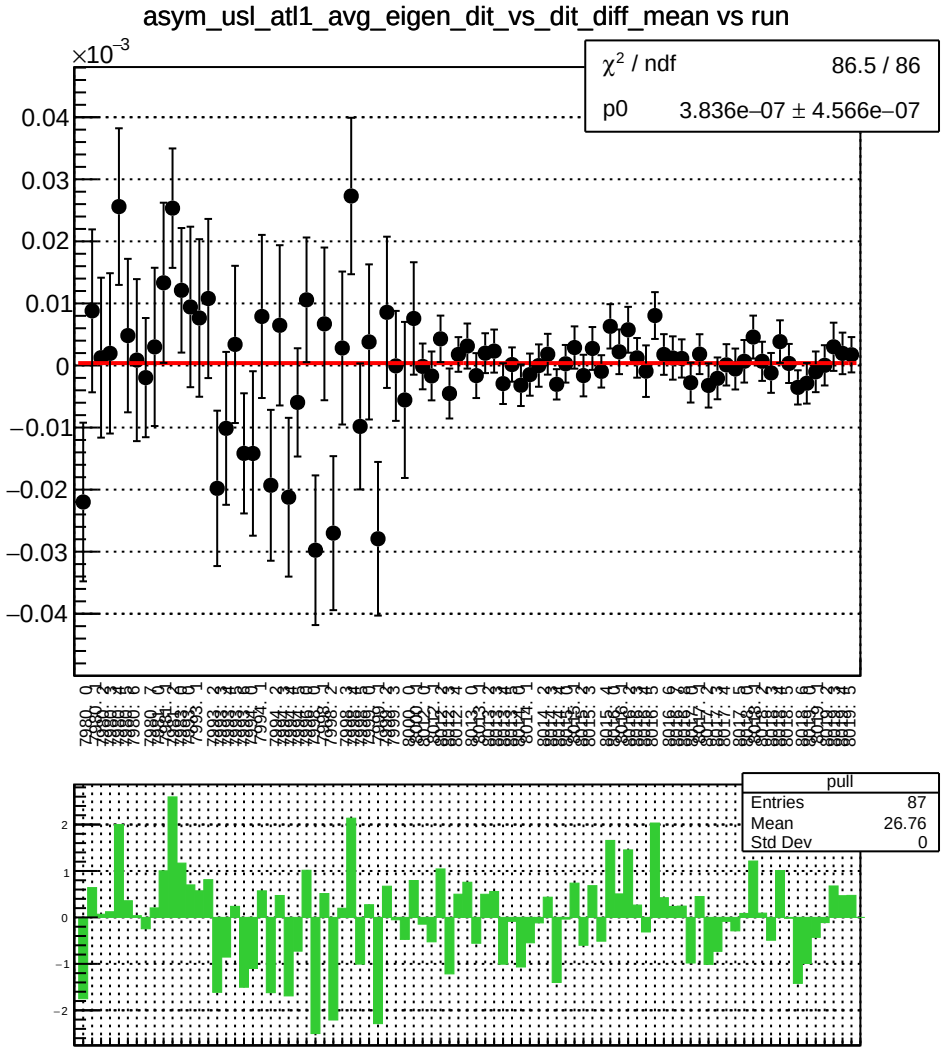

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.172e+06 / 86
p0 4.25e−11 ± 5.539e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

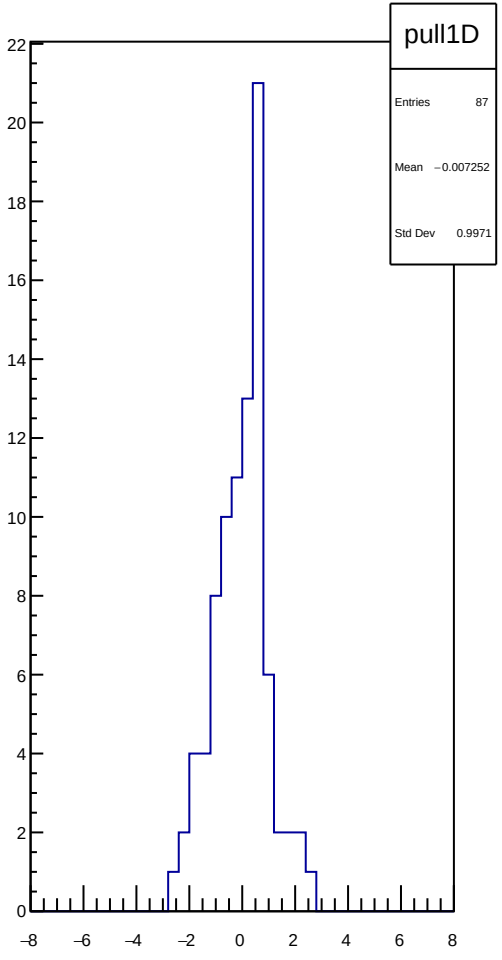

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 86
p0 −0.04691 ± 0.05858
pull
Entries 87
Mean 53.8
Std Dev 20.36
pull1D
Entries 87
Mean 0.05852
Std Dev 1.084

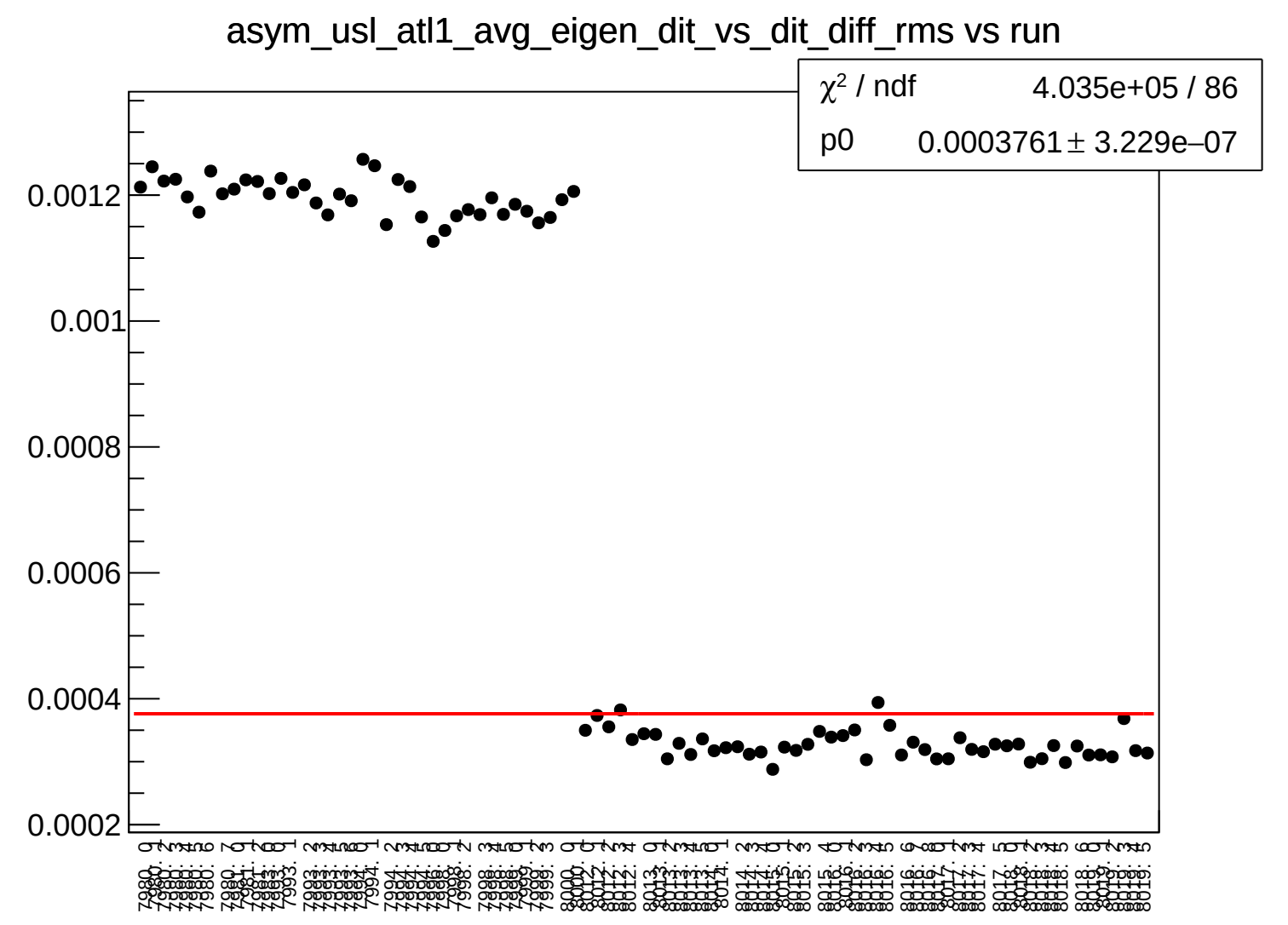

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.483e+05 / 86
p0 47.46 ± 0.04142
700
600
500
400
300
200
100

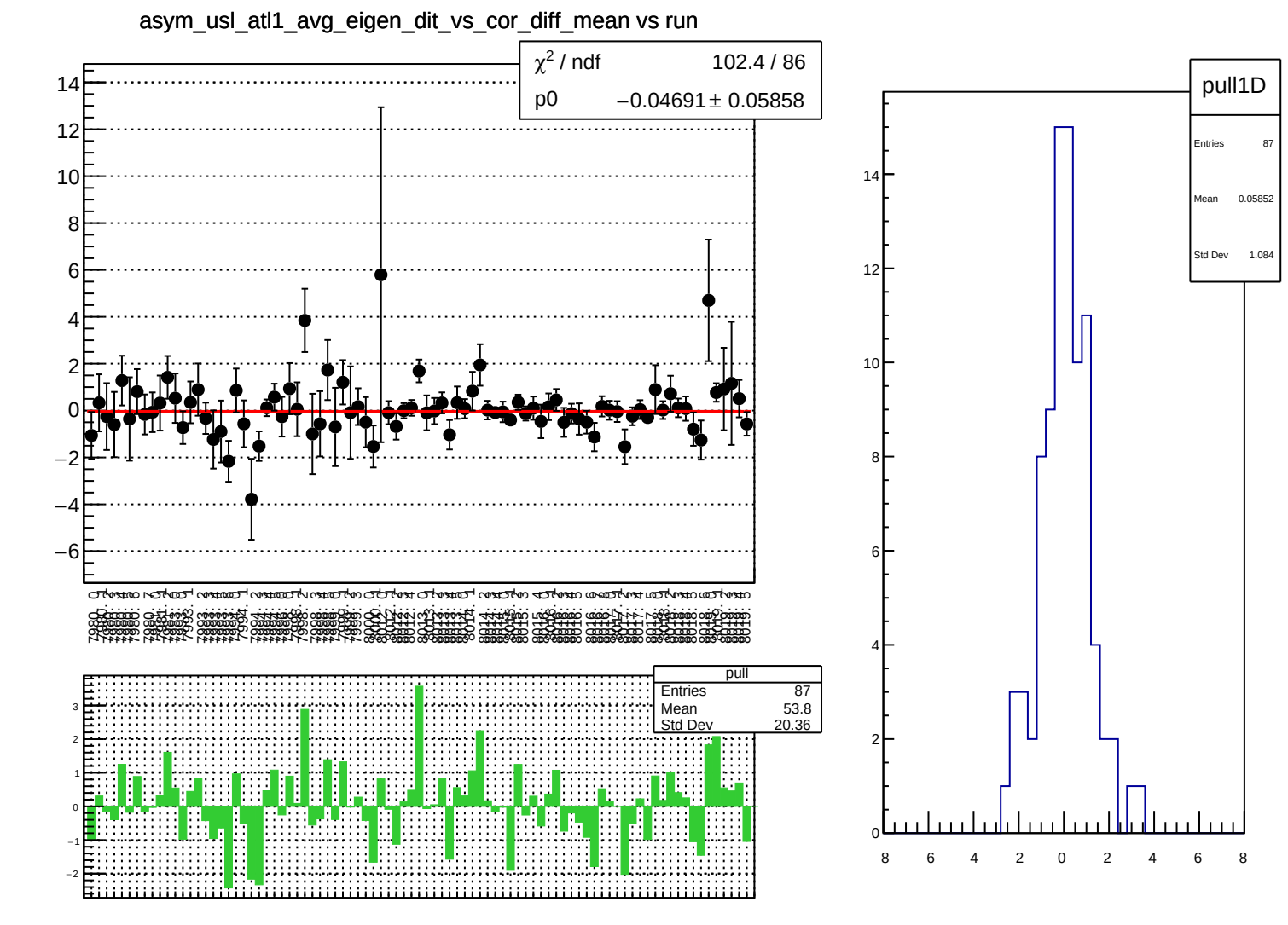

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.4 / 86
p0 −0.04691 ± 0.05858
pull
Entries 87
Mean 53.8
Std Dev 20.36
pull1D
Entries 87
Mean 0.05852
Std Dev 1.084

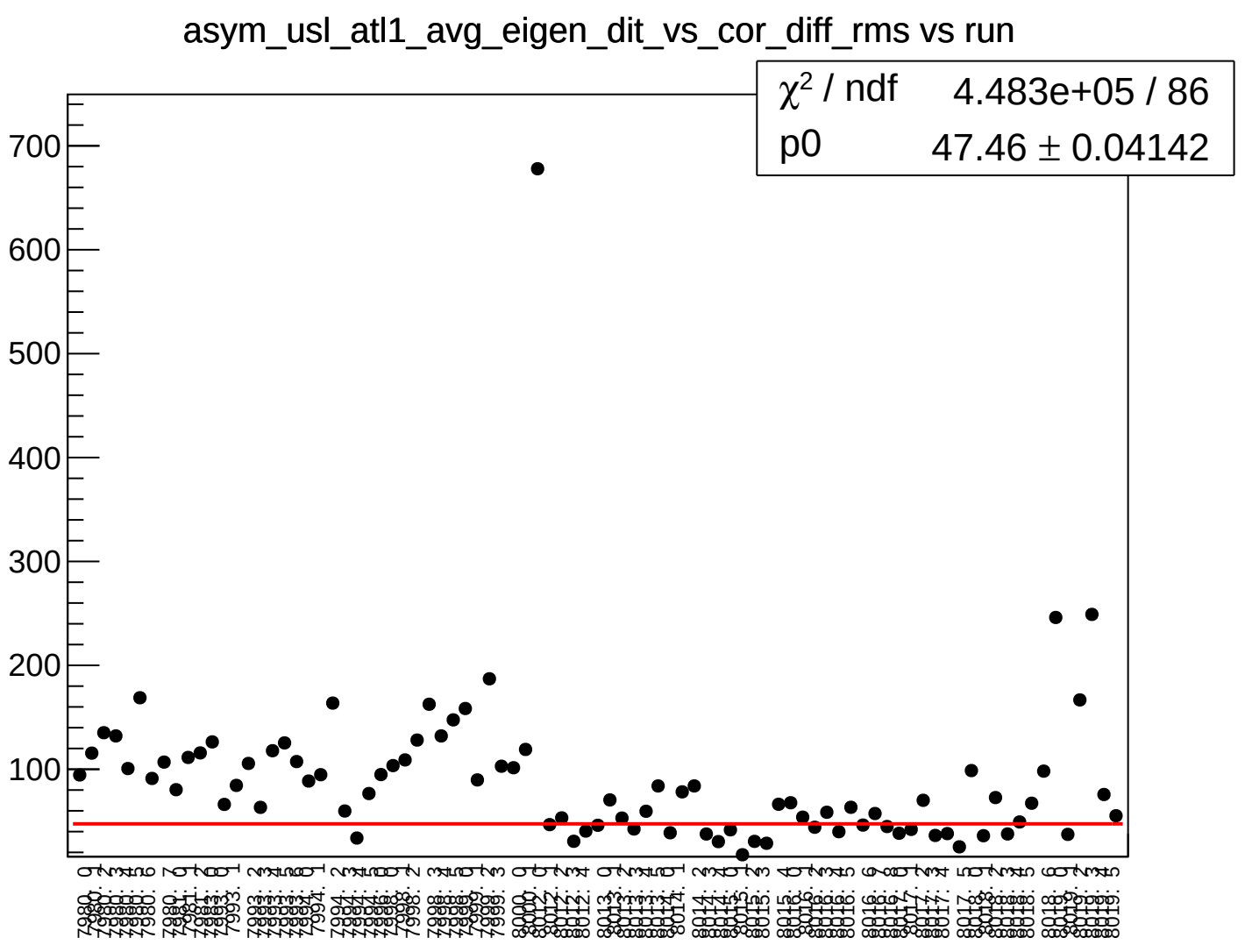

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.483e+05 / 86
p0 47.46 ± 0.04142
700
600
500
400
300
200
100

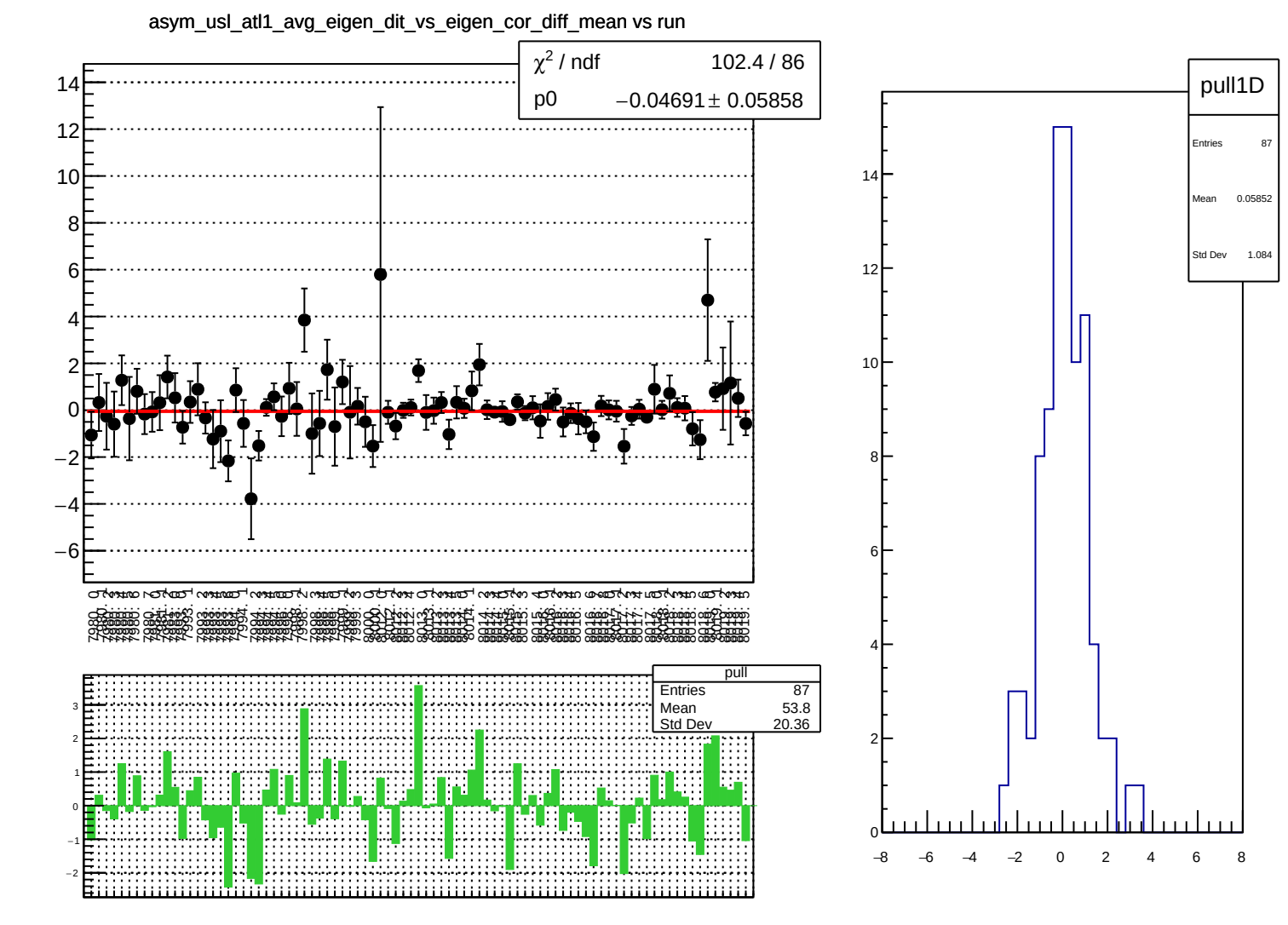

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 86.5 / 86
p0 3.836e−07 ± 4.566e−07
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 87
Mean 26.76
Std Dev 0
2
1
0
−1
−2

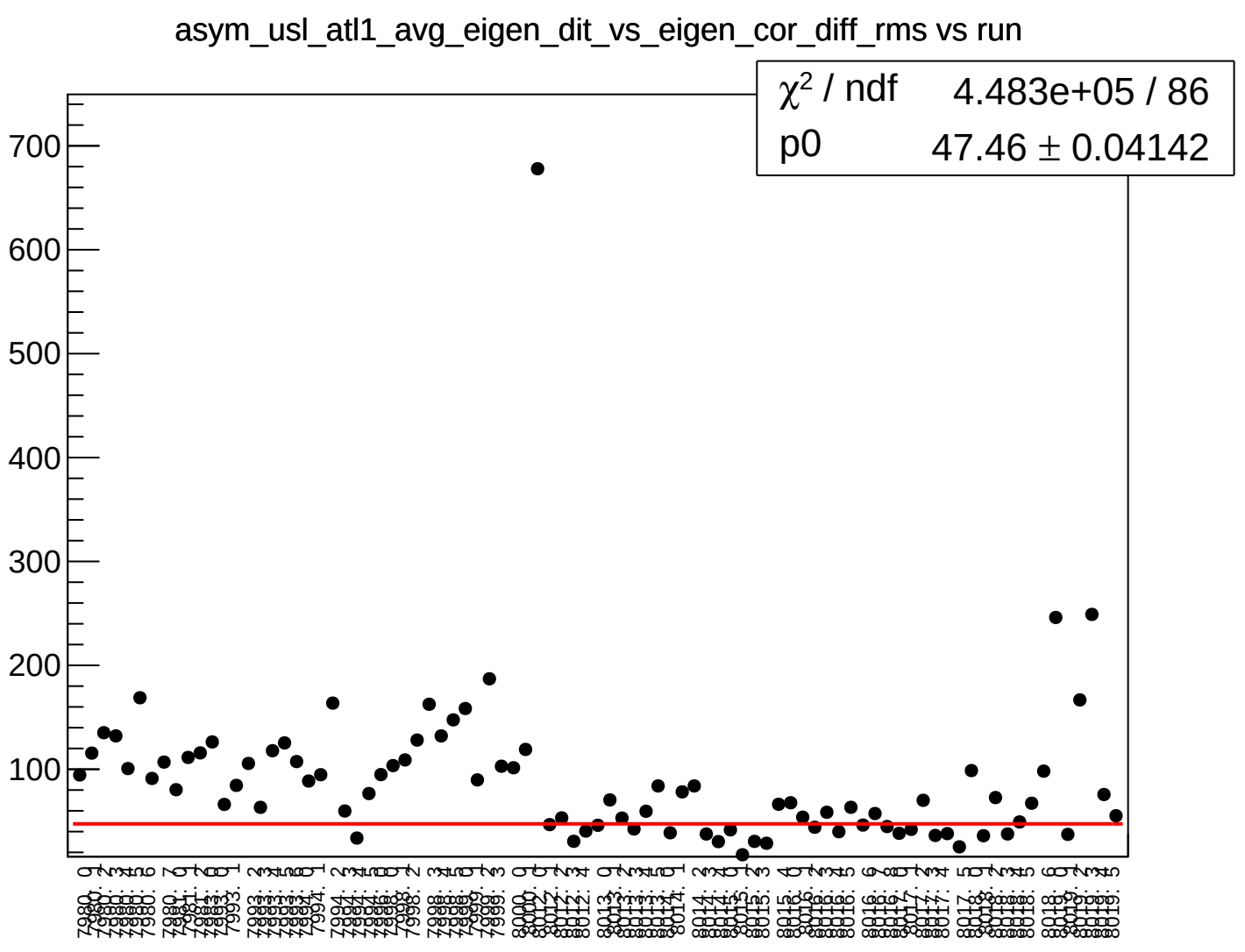

pull1D
Entries 87
Mean −0.007252
Std Dev 0.9971
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

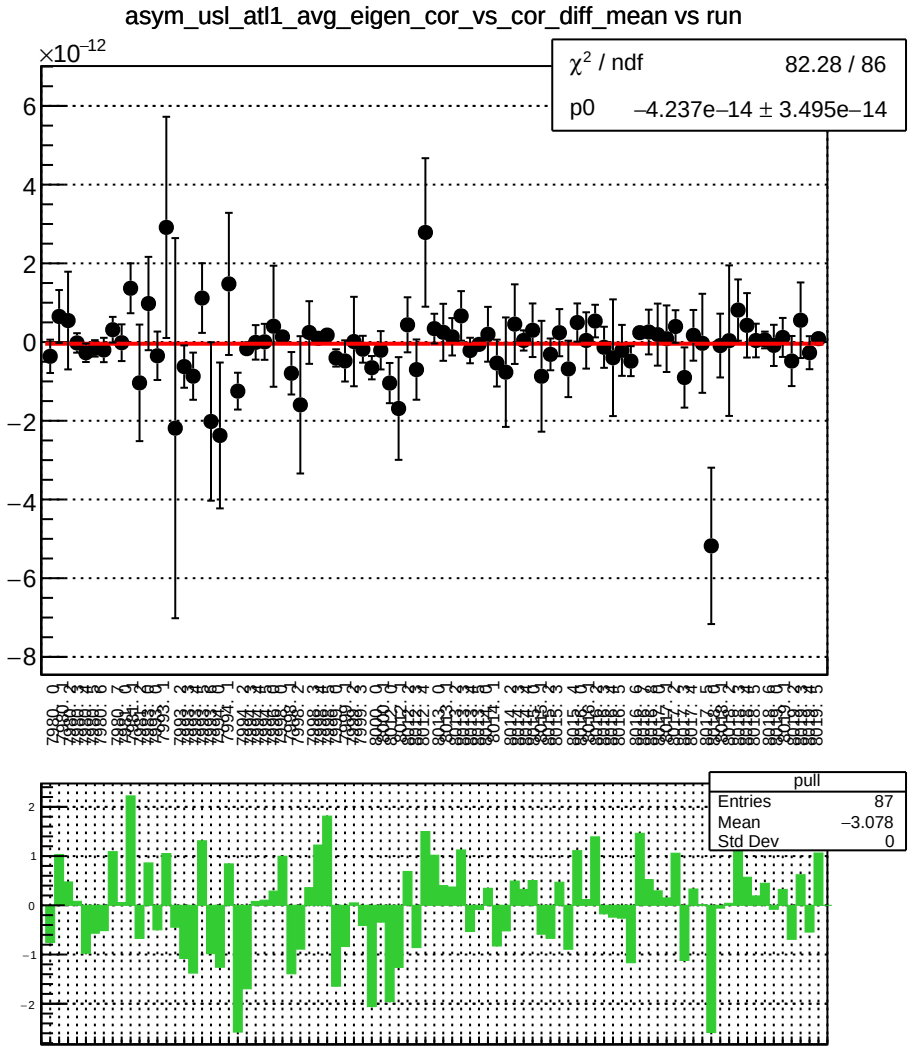

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.035e+05 / 86
p0 0.0003761 ± 3.229e–07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

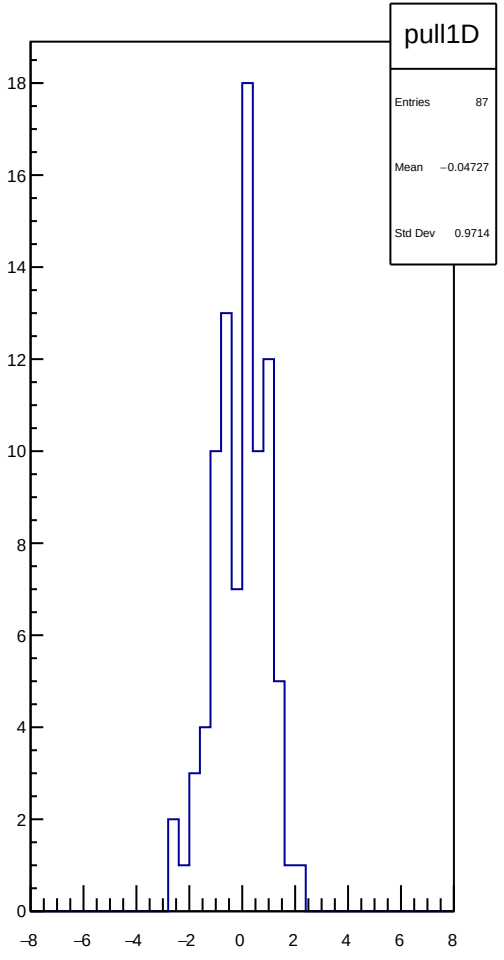

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 86
p0 −0.04691 ± 0.05858
pull
Entries 87
Mean 53.8
Std Dev 20.36
pull1D
Entries 87
Mean 0.05852
Std Dev 1.084

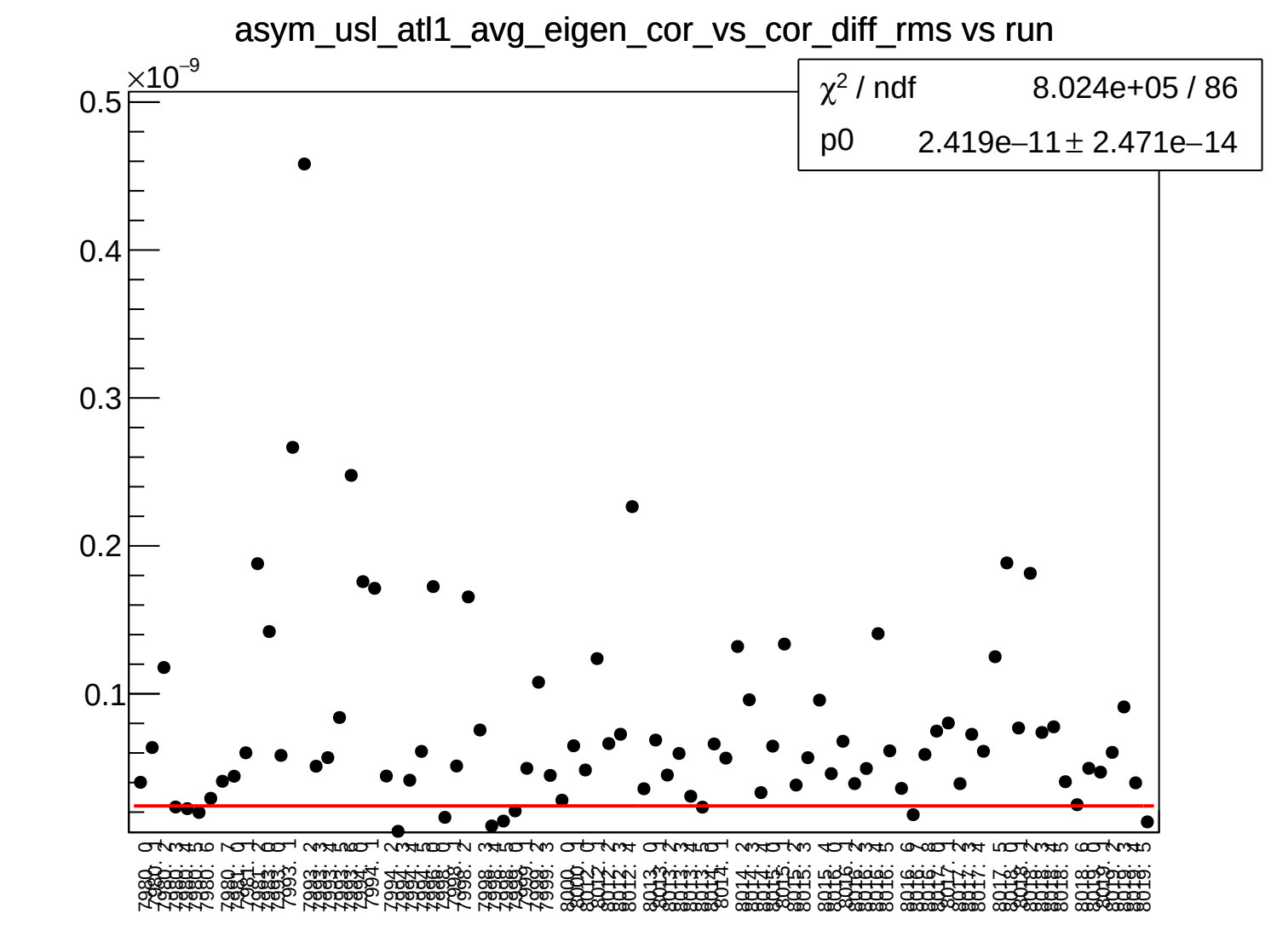

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.483e+05 / 86
p0 47.46 ± 0.04142
700
600
500
400
300
200
100

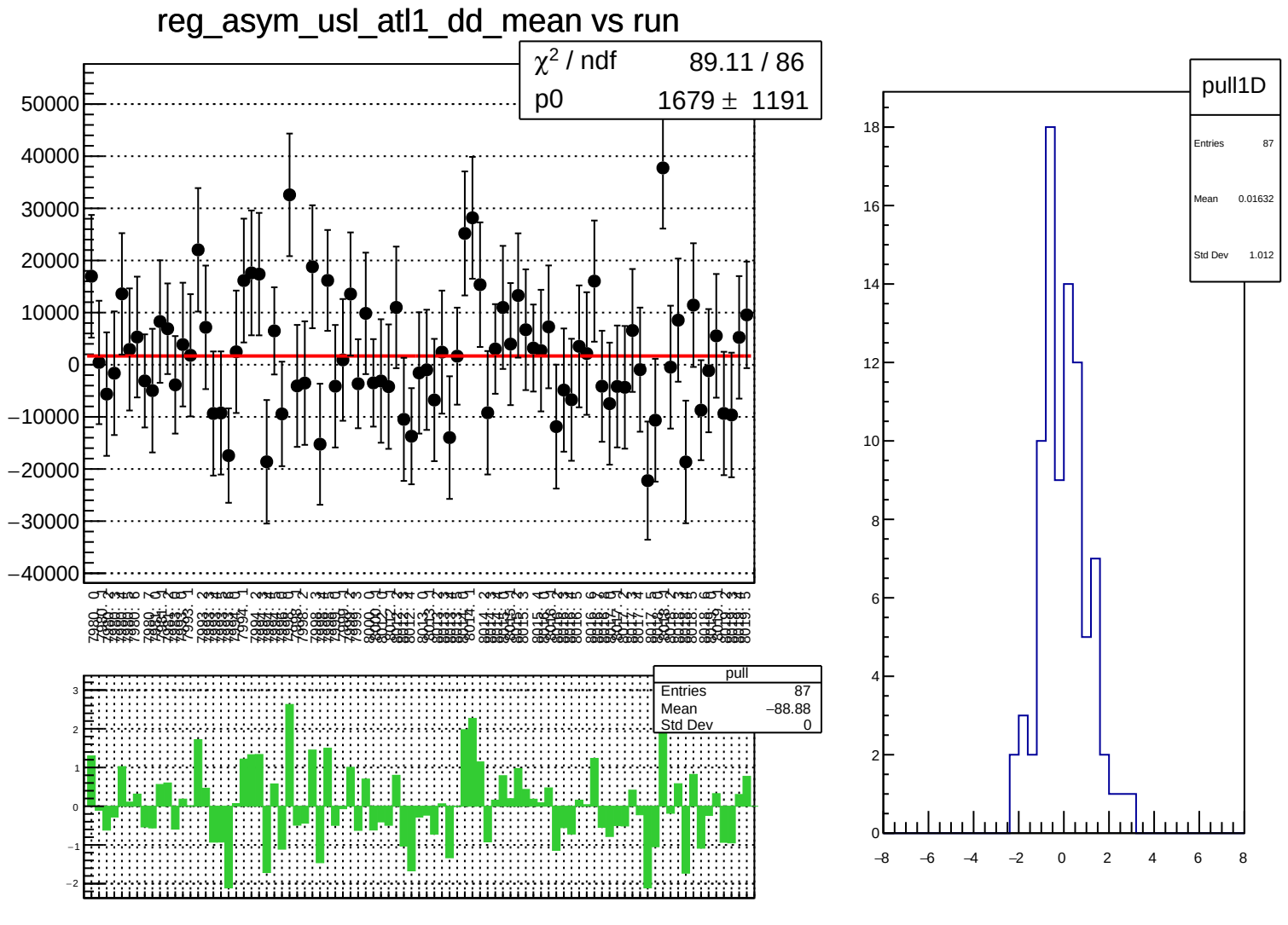

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.4 / 86
p0 −0.04691 ± 0.05858
pull
Entries 87
Mean 53.8
Std Dev 20.36
pull1D
Entries 87
Mean 0.05852
Std Dev 1.084

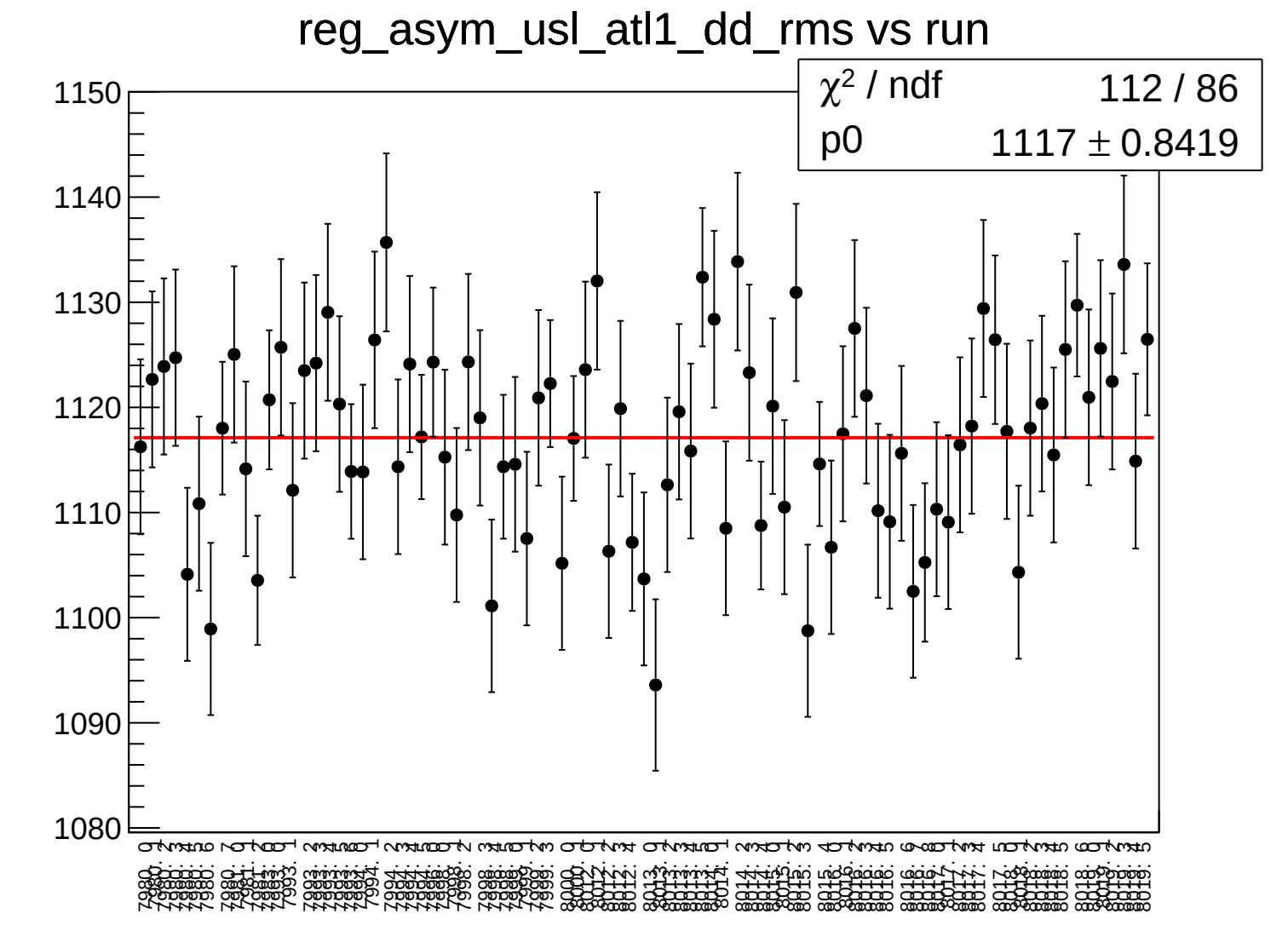

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.483e+05 / 86
p0 47.46 ± 0.04142
700
600
500
400
300
200
100

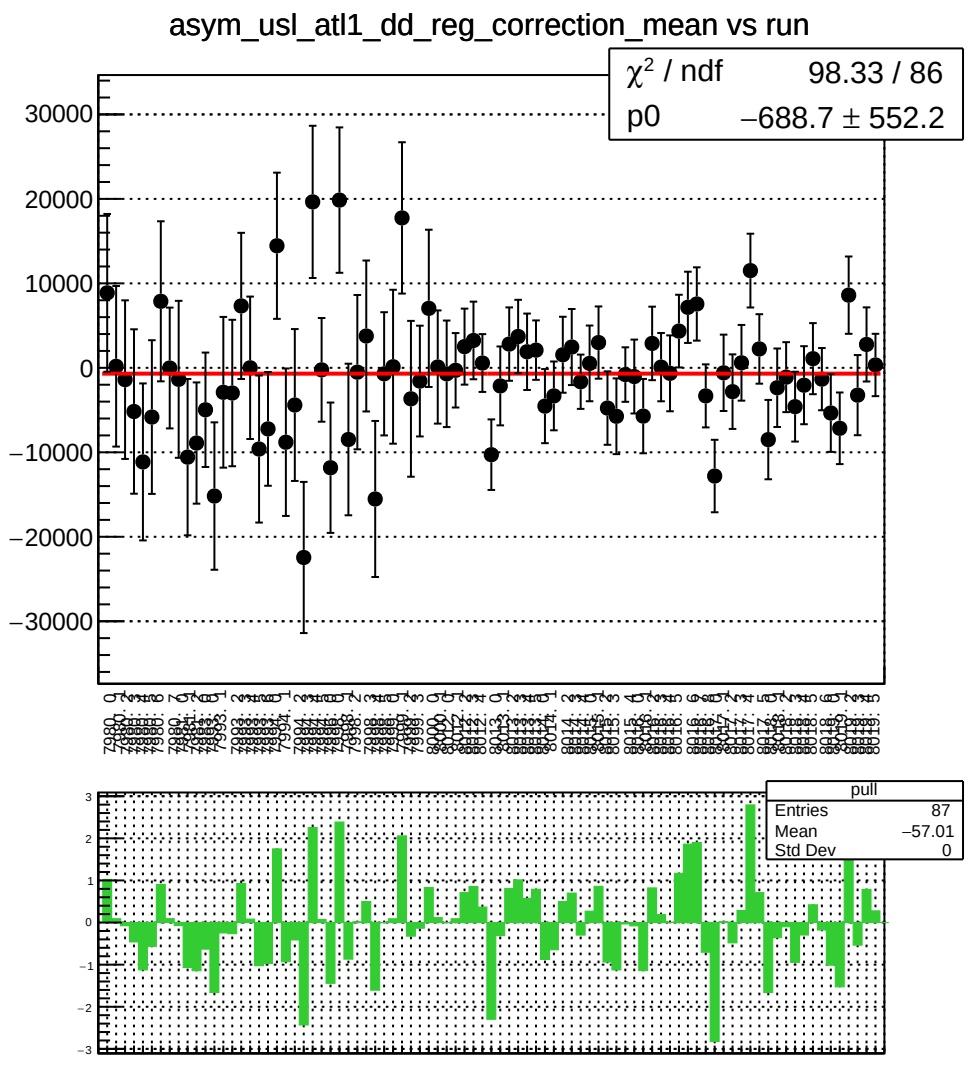

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.28 / 86
p0 −4.237e−14 ± 3.495e−14
pull
Entries 87
Mean −3.078
Std Dev 0

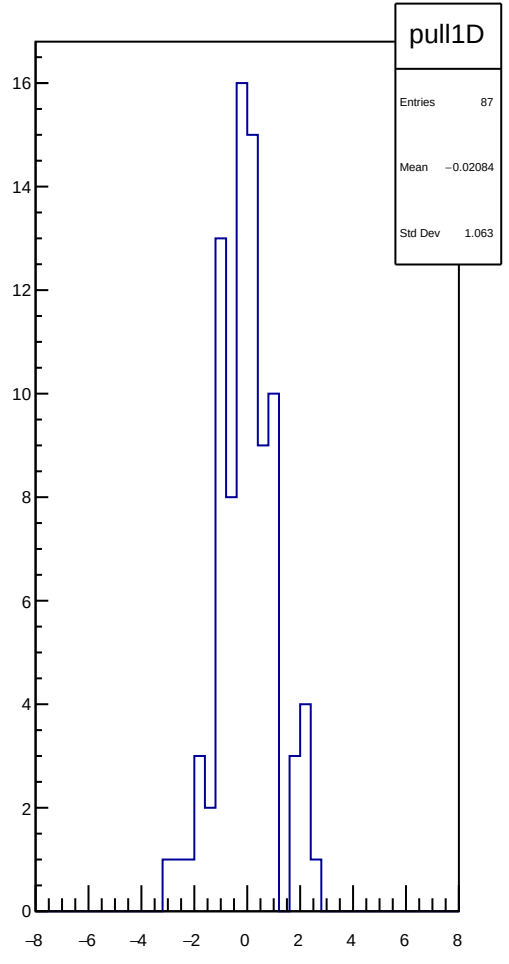

pull1D
Entries 87
Mean −0.04727
Std Dev 0.9714

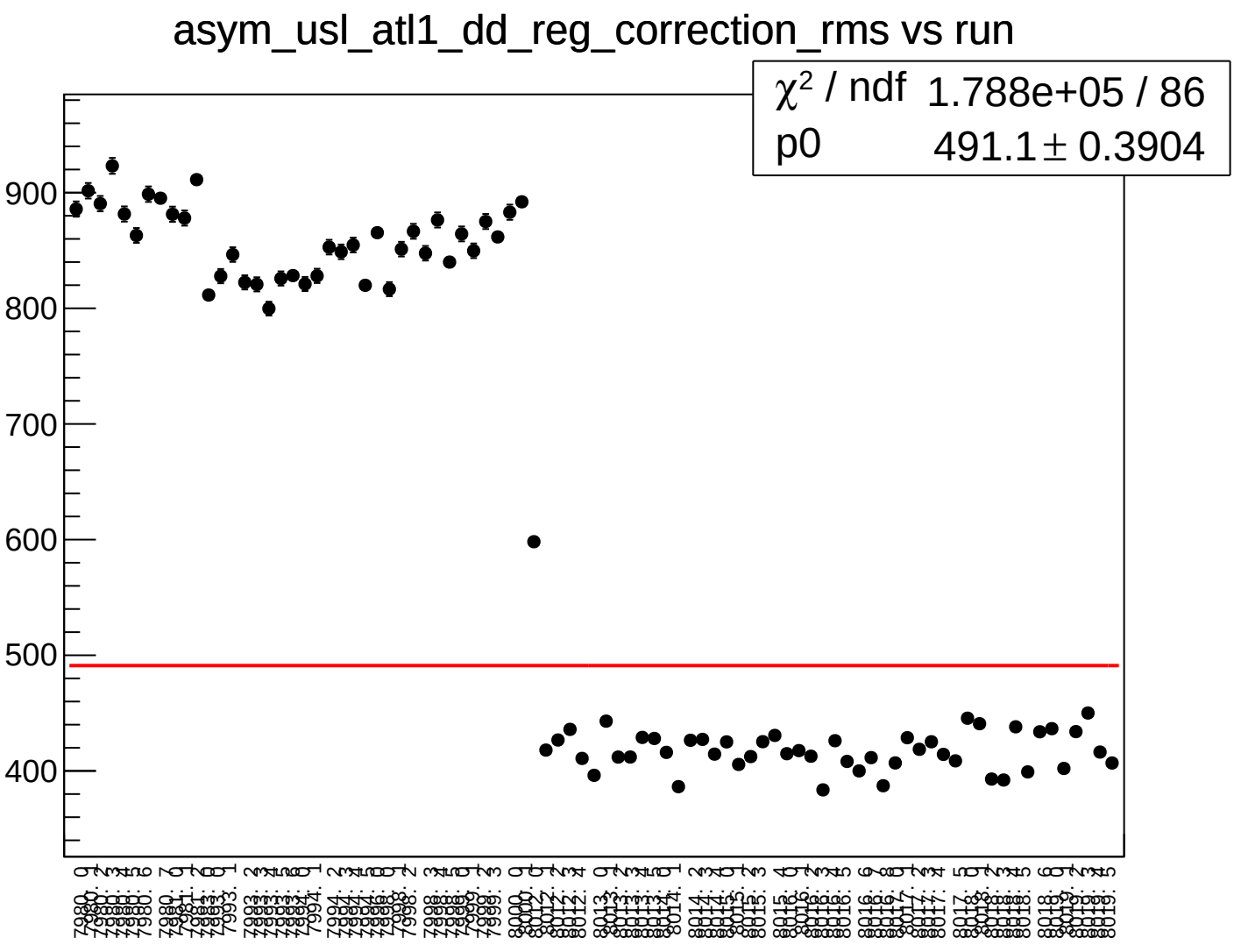

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.024e+05 / 86
p0 2.419e−11 ± 2.471e−14

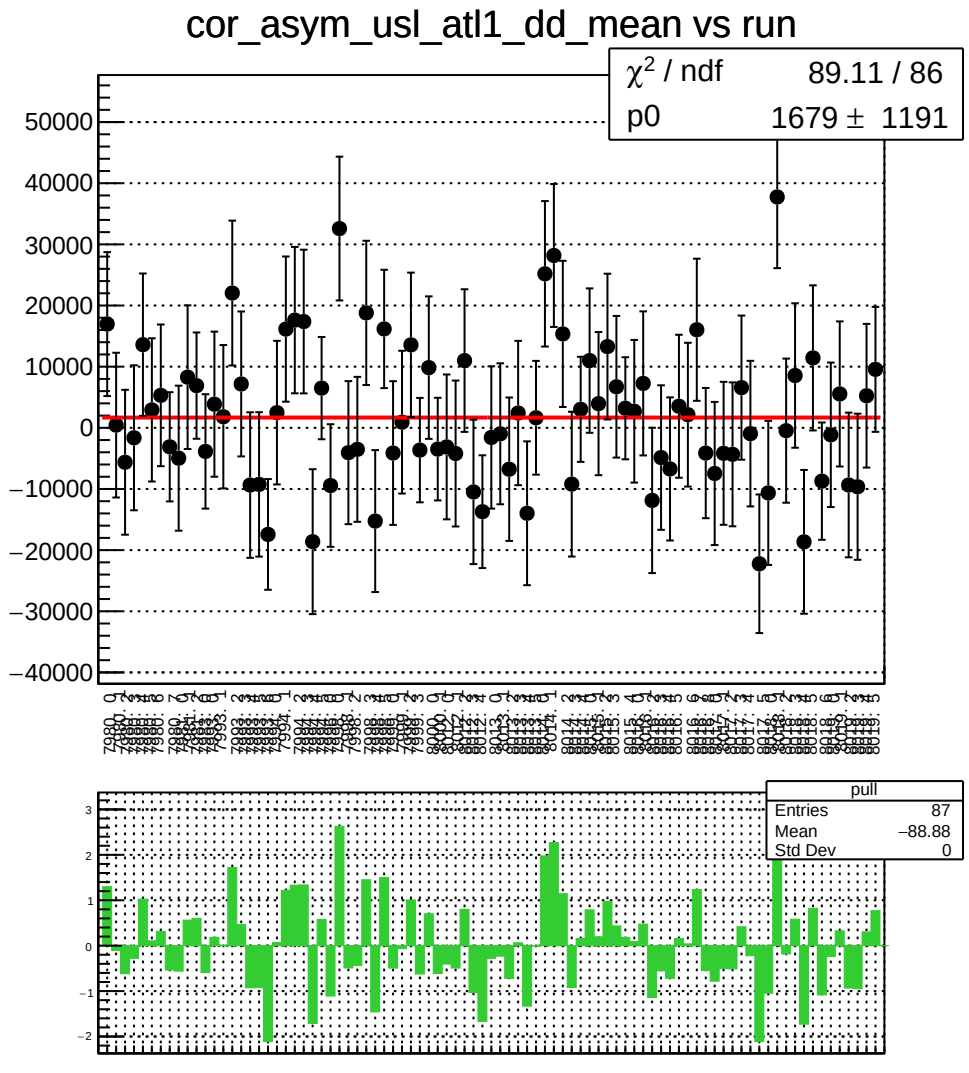

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.11 / 86
p0 1679 ± 1191
pull
Entries 87
Mean −88.88
Std Dev 0
pull1D
Entries 87
Mean 0.01632
Std Dev 1.012

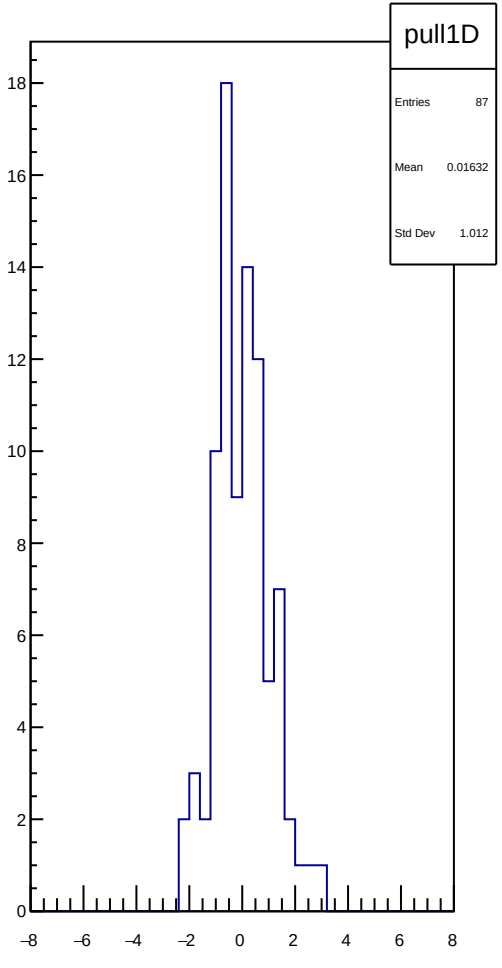

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 112 / 86
p0 1117 ± 0.8419
1150
1140
1130
1120
1110
1100
1090
1080

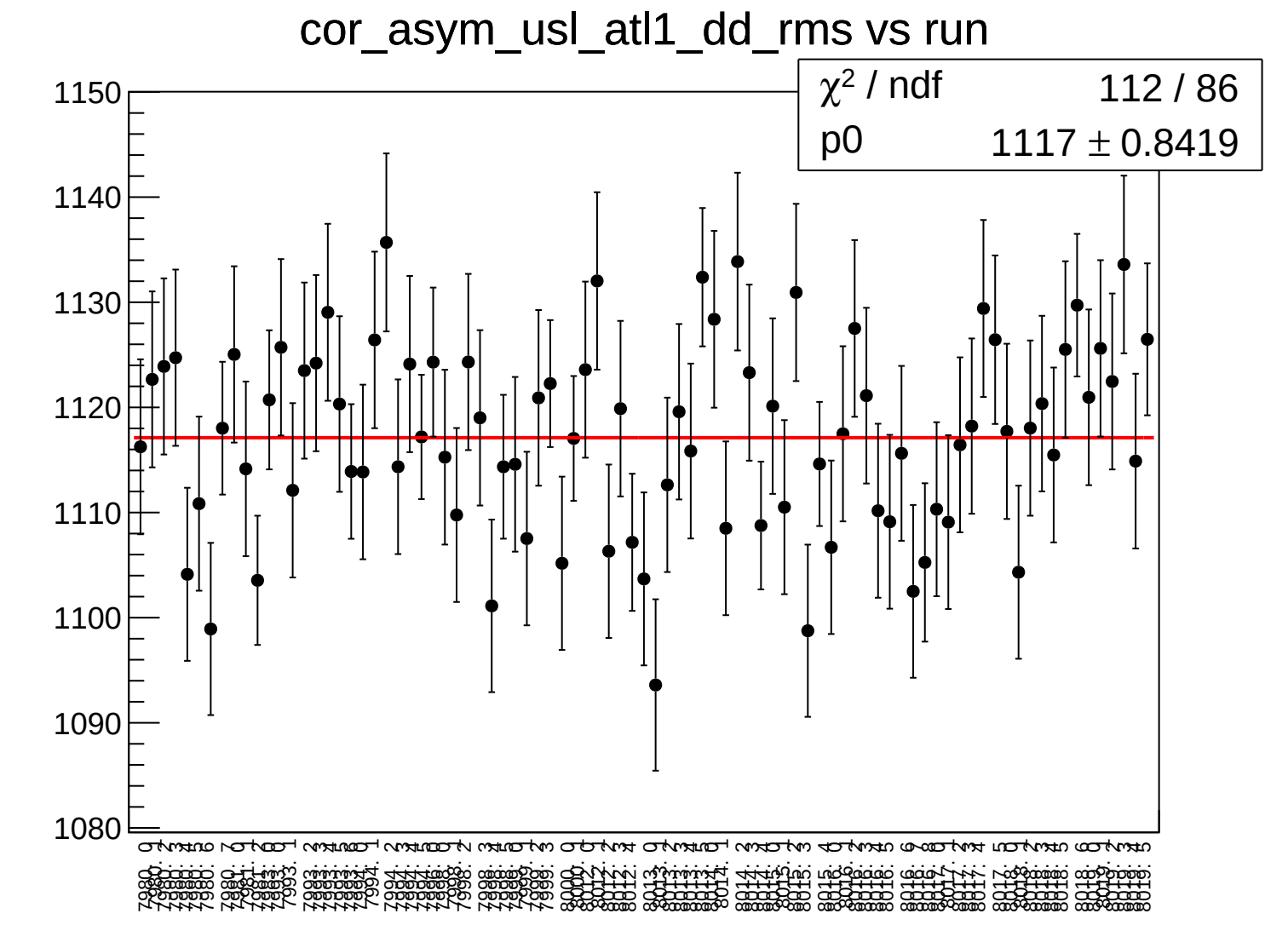

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 98.33 / 86
p0 −688.7 ± 552.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −57.01
Std Dev 0
3
2
1
0
−1
−2
−3

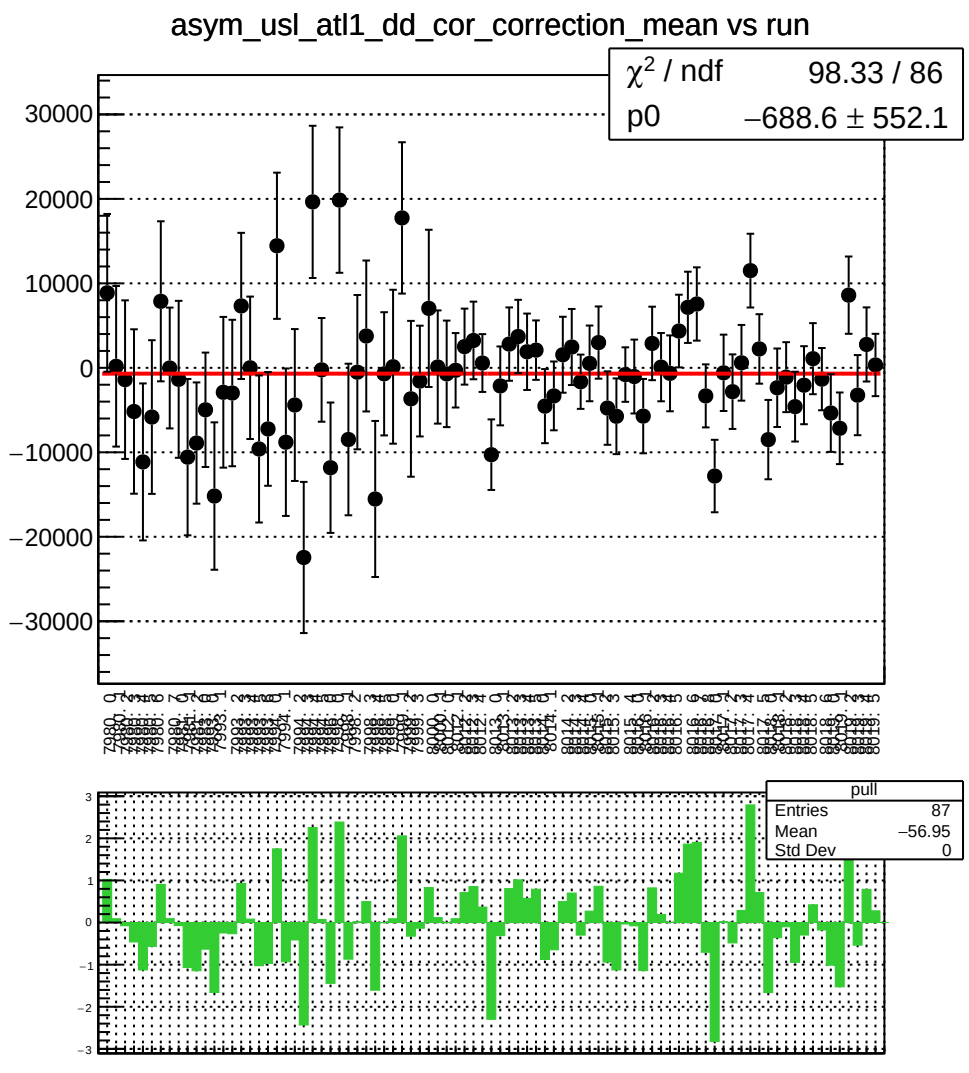

pull1D
Entries 87
Mean −0.02084
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

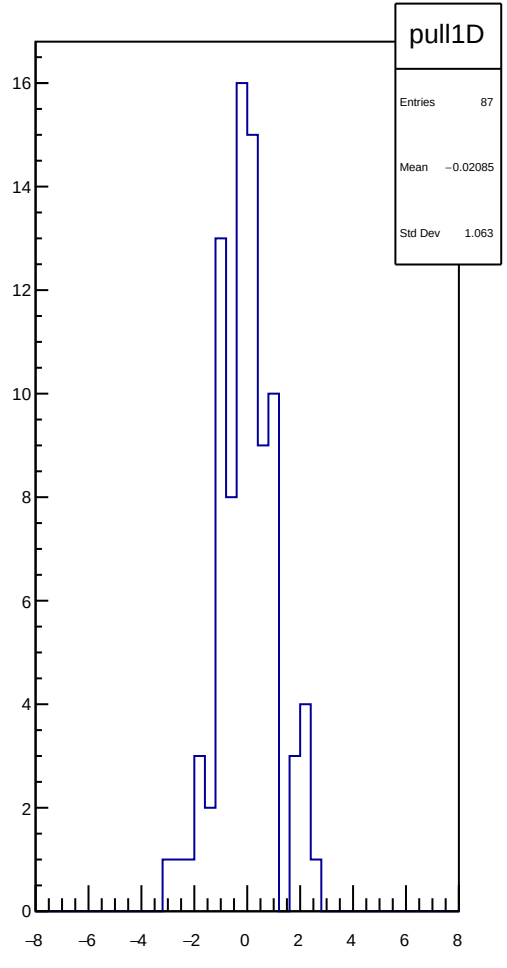

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.788e+05 / 86
p0 491.1 ± 0.3904
900
800
700
600
500
400

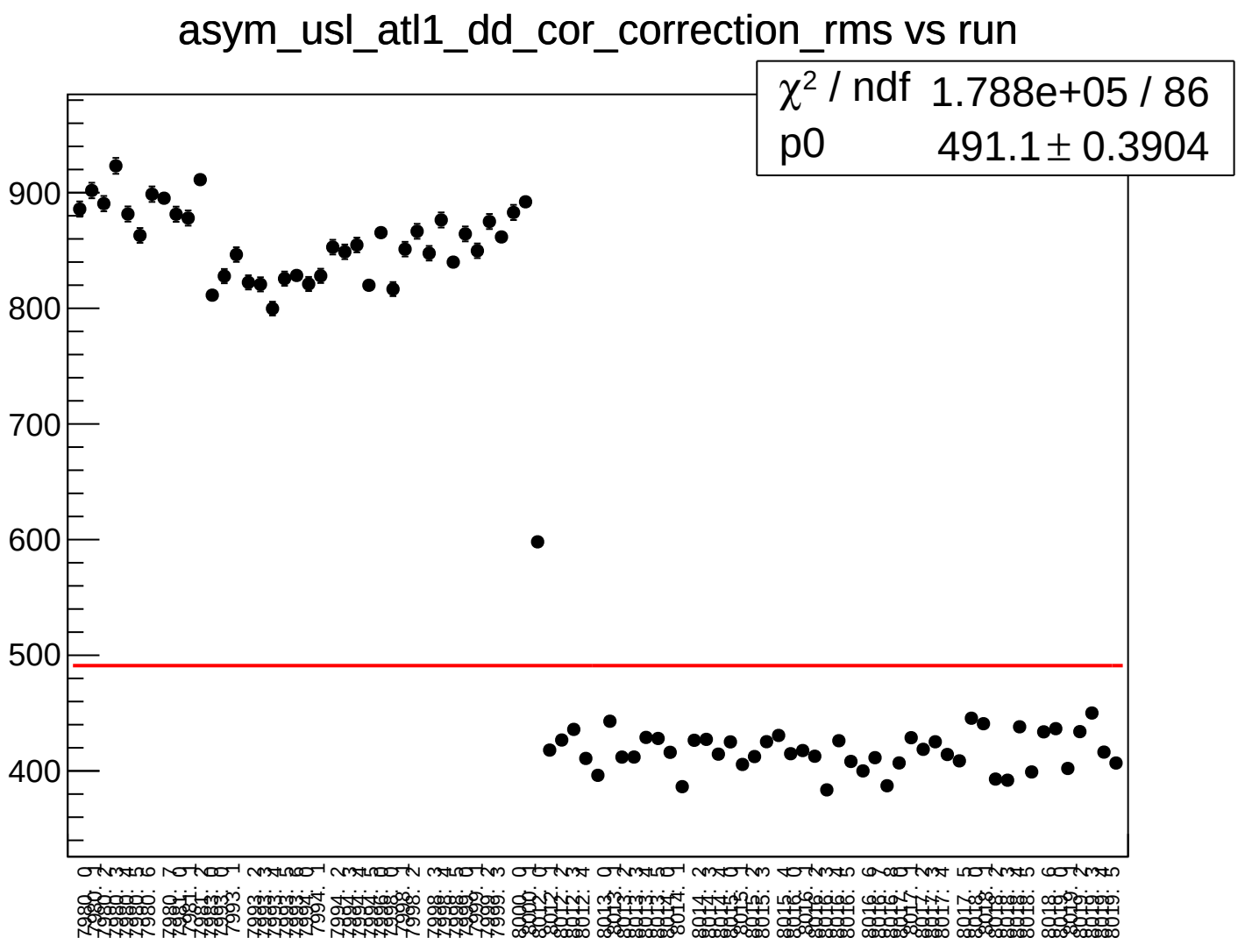

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.11 / 86
p0 1679 ± 1191
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −88.88
Std Dev 0
3
2
1
0
−1
−2

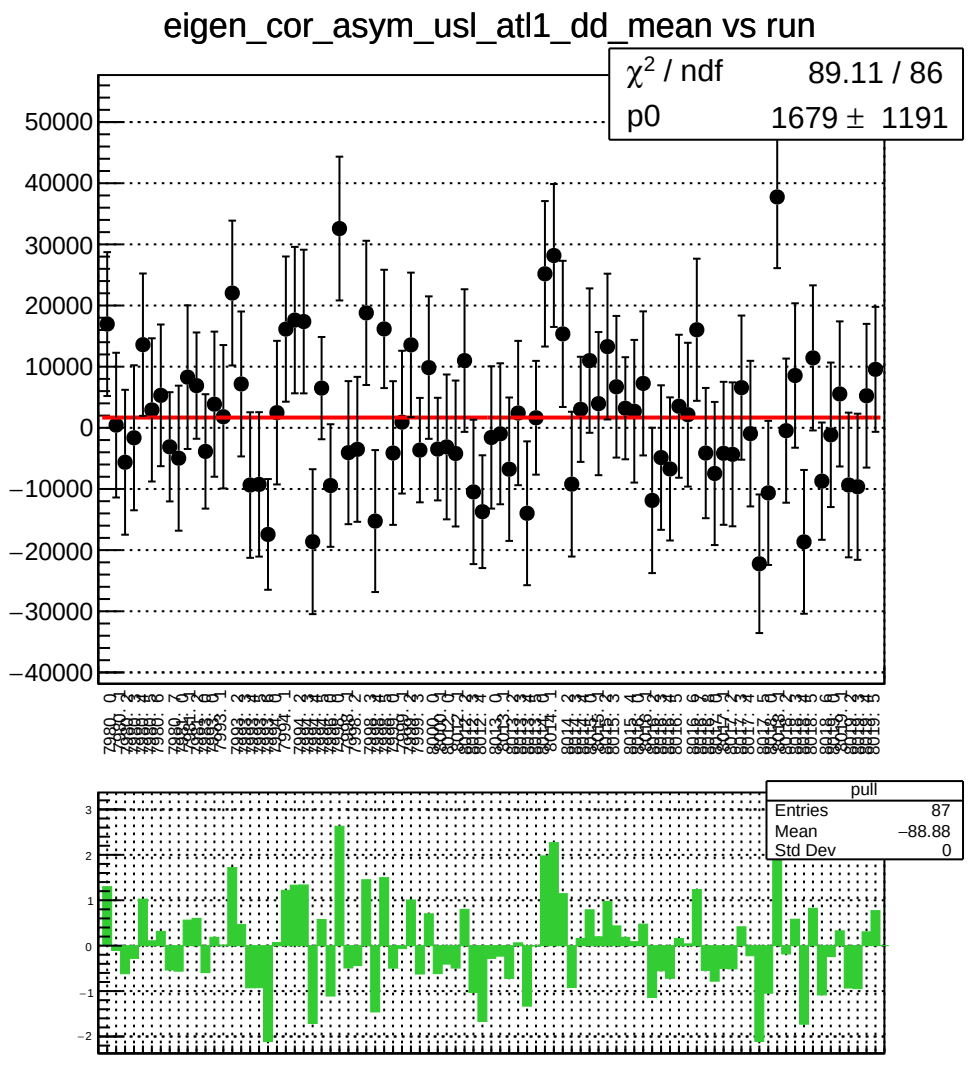

pull1D
Entries 87
Mean 0.01632
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

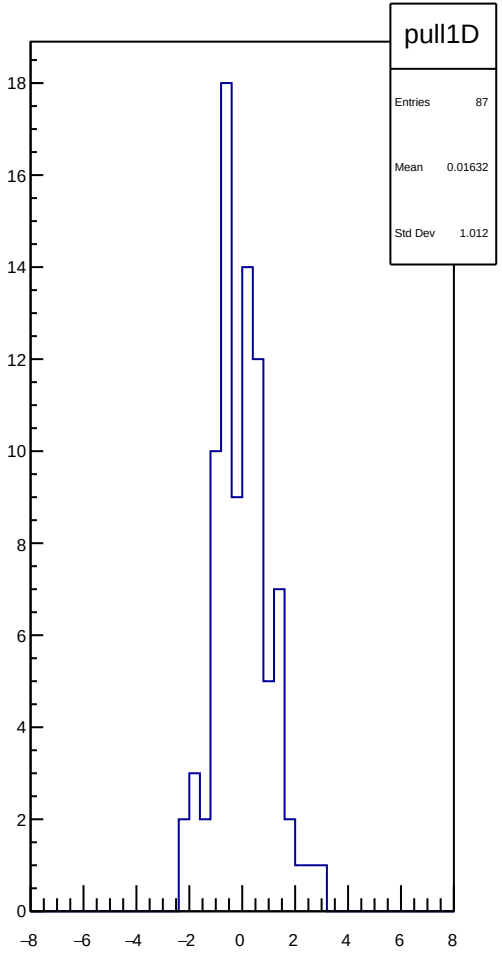

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 112 / 86
p0 1117 ± 0.8419
1150
1140
1130
1120
1110
1100
1090
1080

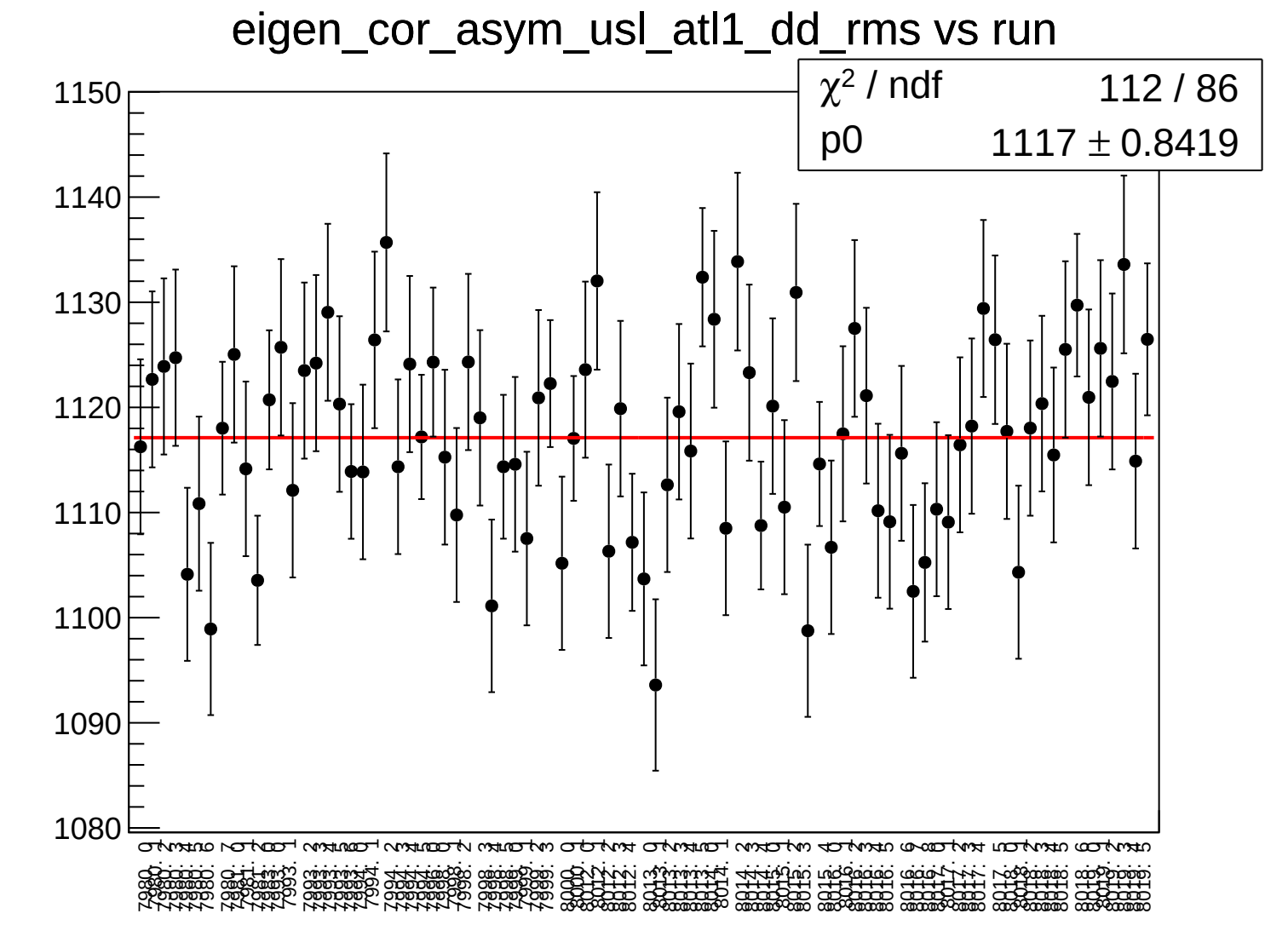

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 98.33 / 86
p0 −688.6 ± 552.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −56.95
Std Dev 0
3
2
1
0
−1
−2
−3

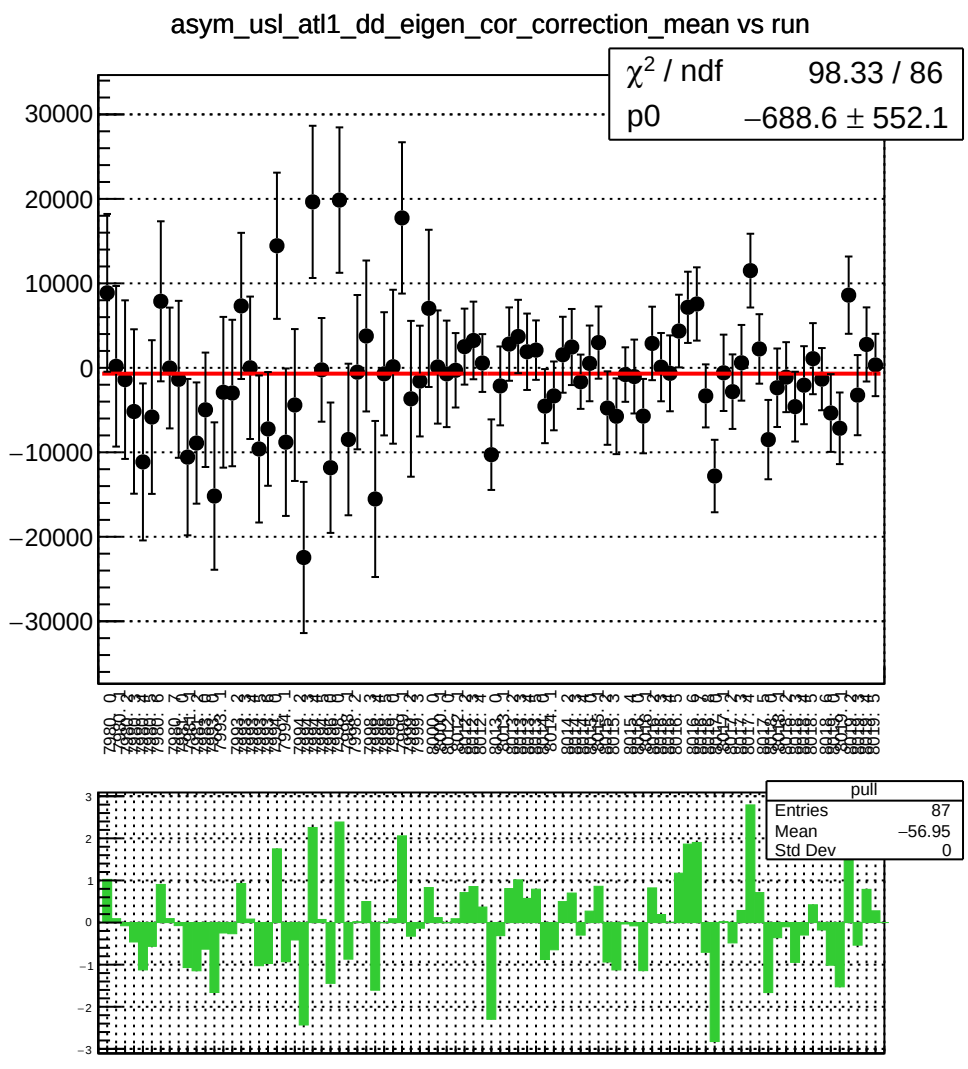

pull1D
Entries 87
Mean −0.02085
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

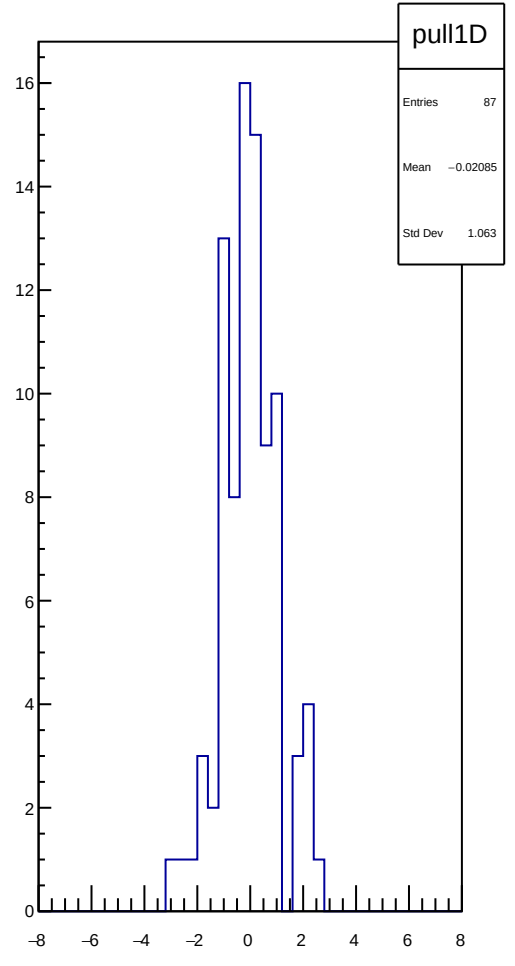

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.788e+05 / 86
p0 491.1 ± 0.3904
900
800
700
600
500
400

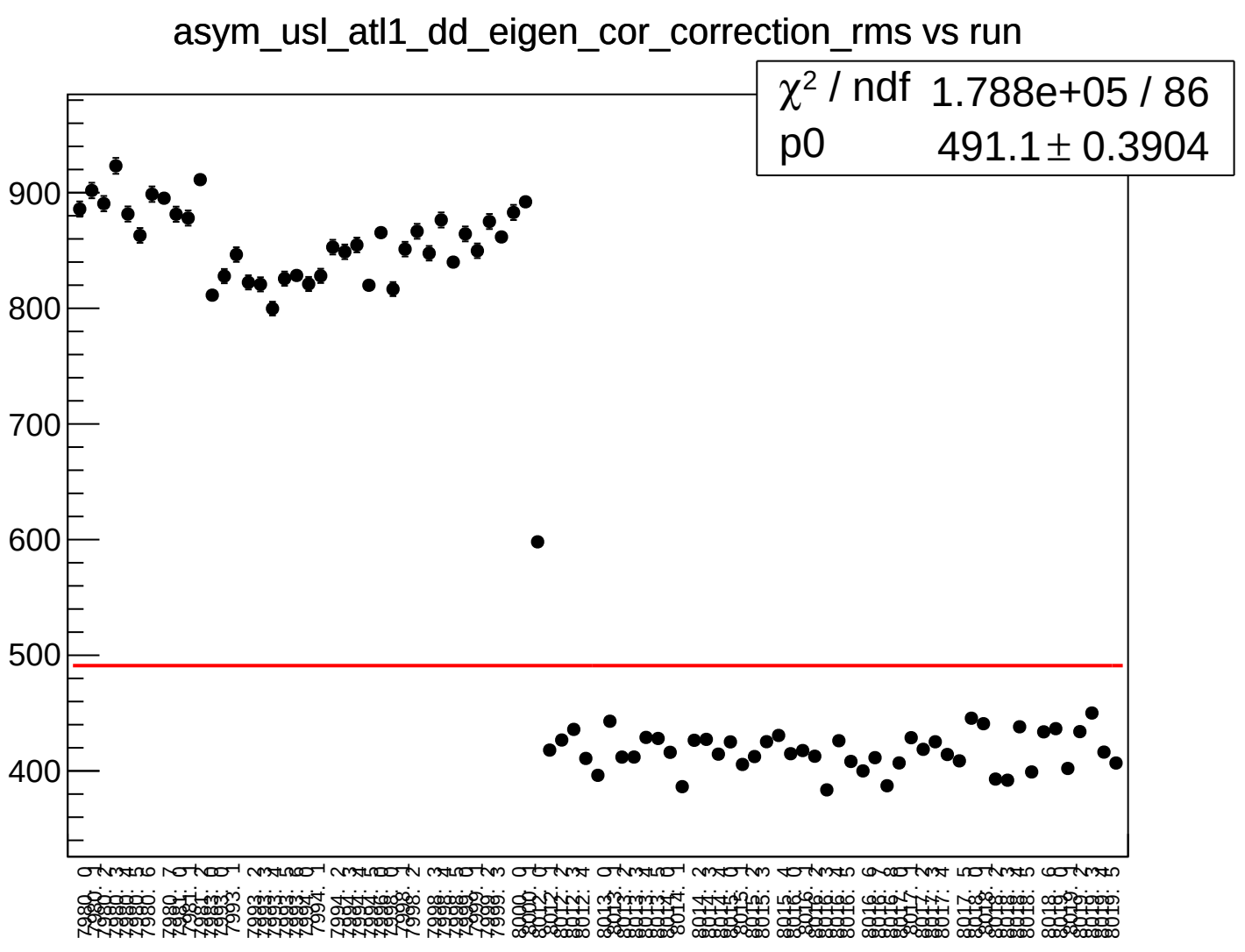

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.11 / 86
p0 1679 ± 1191
pull
Entries 87
Mean −88.88
Std Dev 0

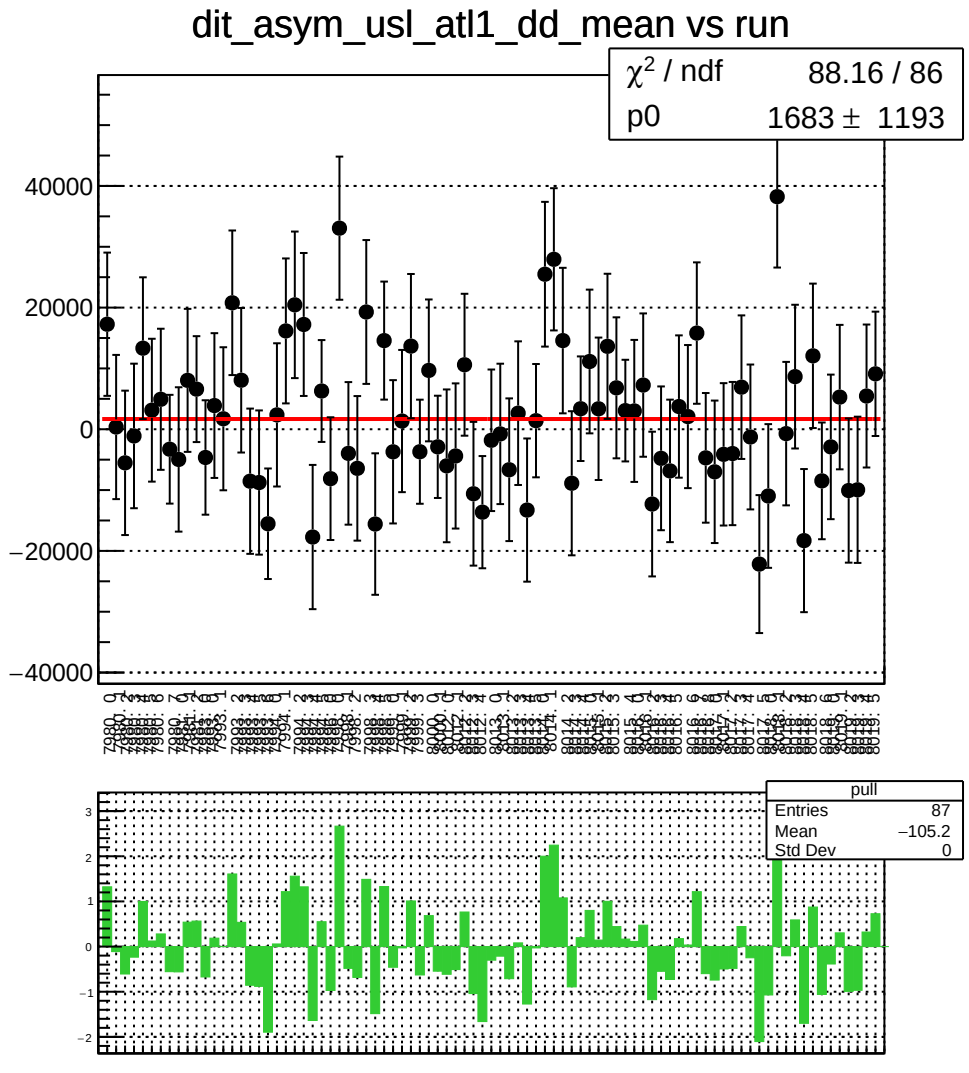

pull1D
Entries 87
Mean 0.01632
Std Dev 1.012

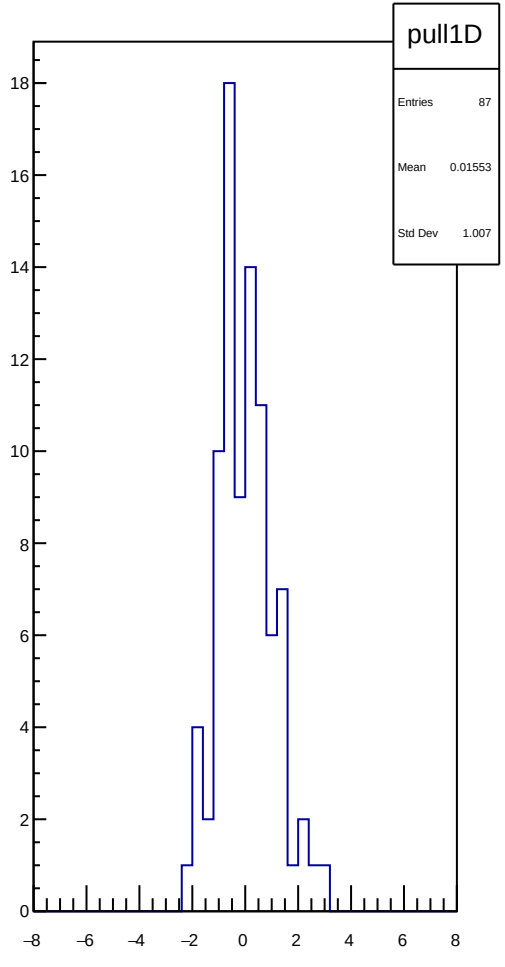

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 112 / 86
p0 1117 ± 0.8419
1150
1140
1130
1120
1110
1100
1090
1080

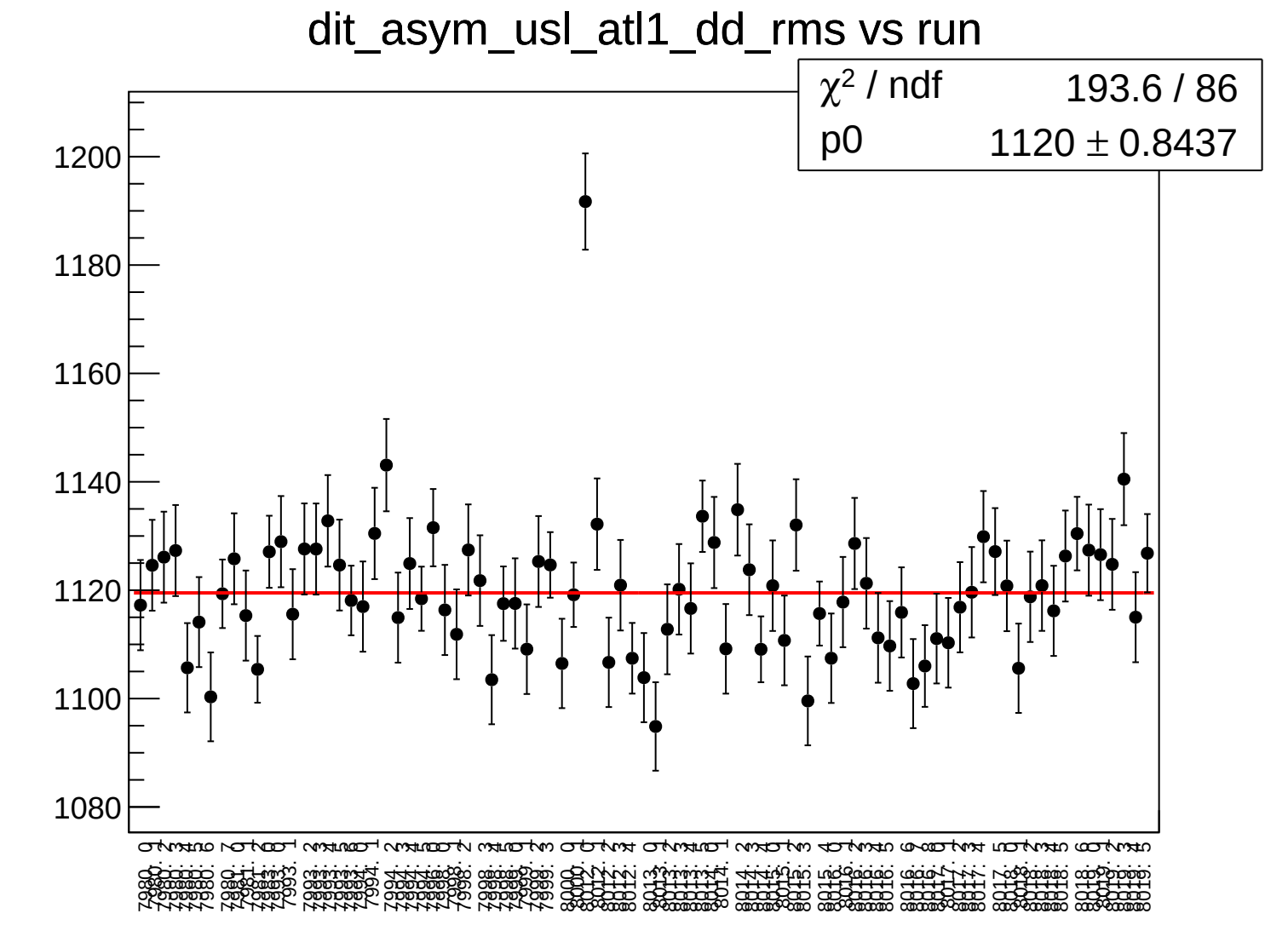

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.33 / 86
p0 −688.6 ± 552.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −56.95
Std Dev 0
3
2
1
0
−1
−2
−3

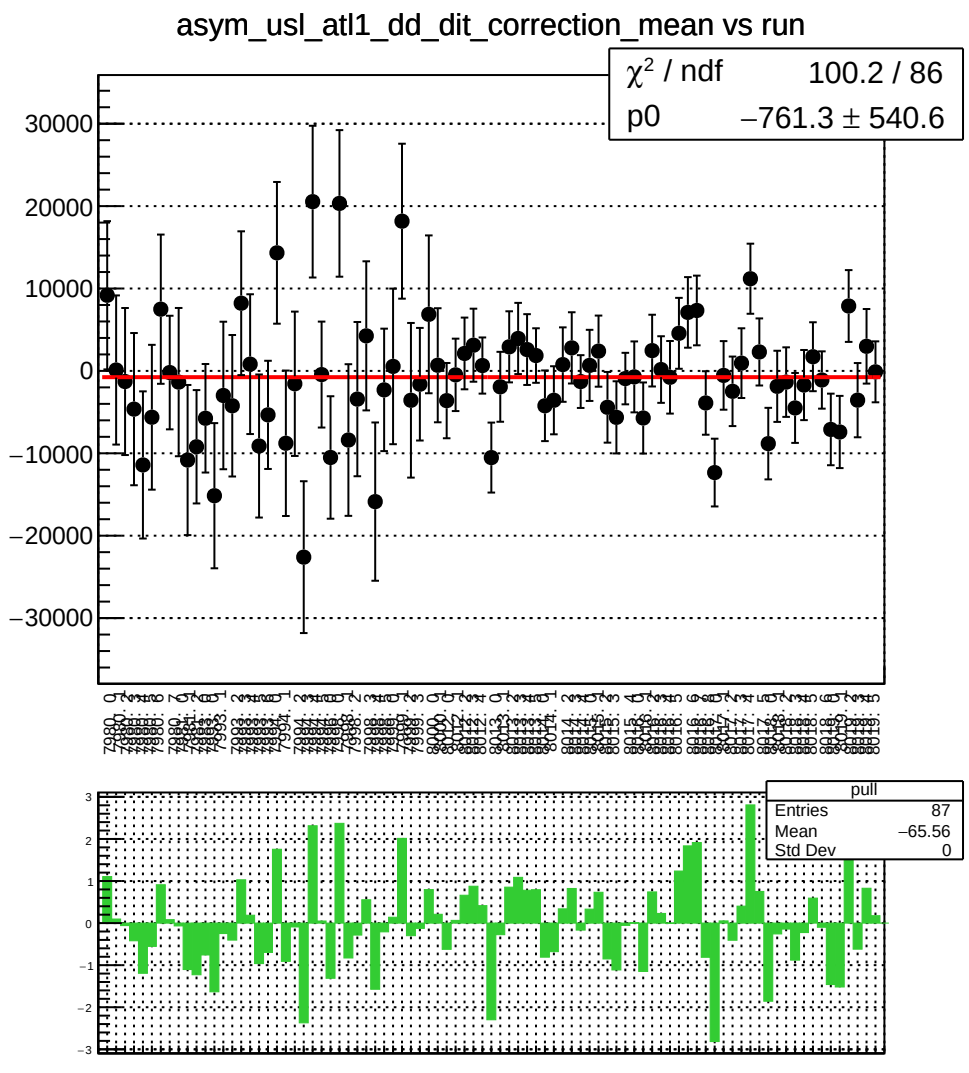

pull1D
Entries 87
Mean −0.02085
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

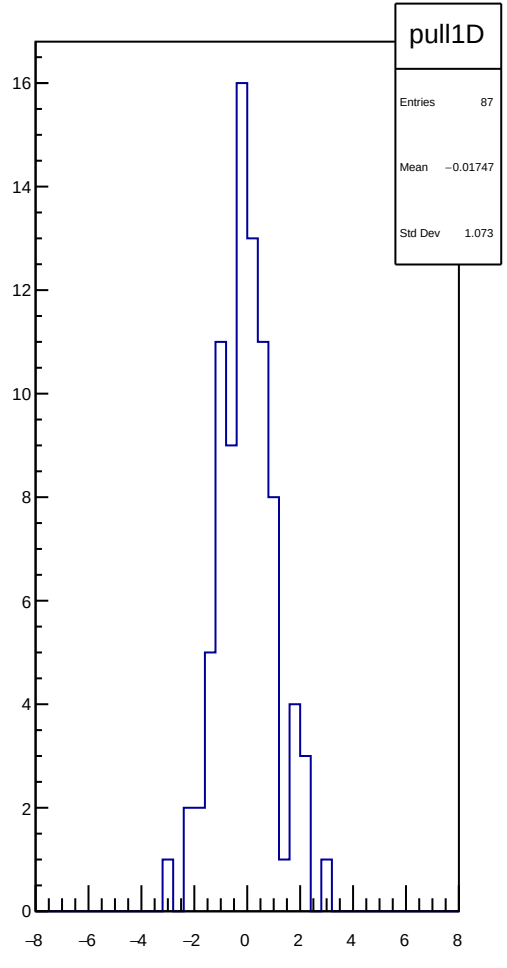

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.788e+05 / 86
p0 491.1 ± 0.3904
900
800
700
600
500
400

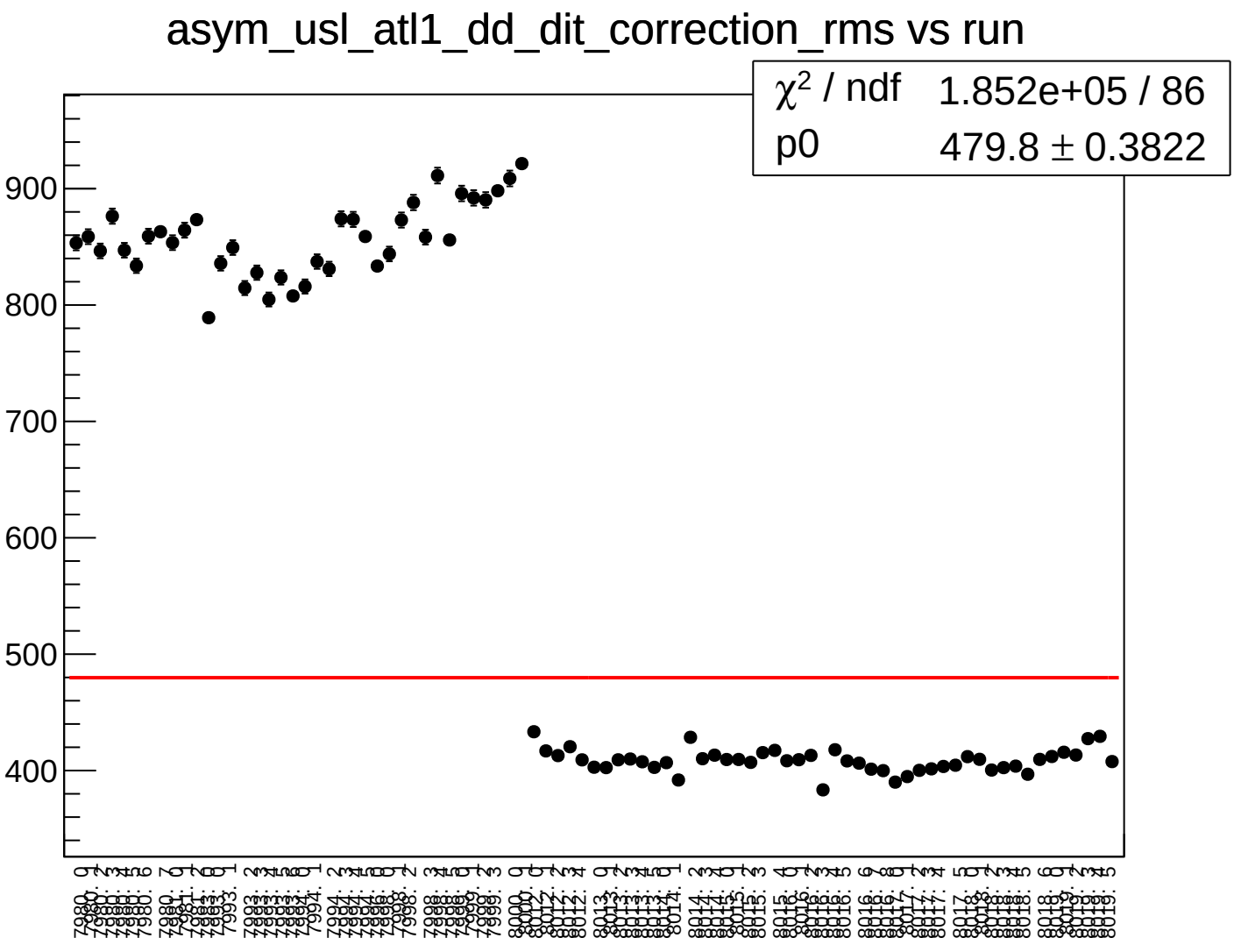

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 88.16 / 86
p0 1683 ± 1193
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −105.2
Std Dev 0
3
2
1
0
−1
−2

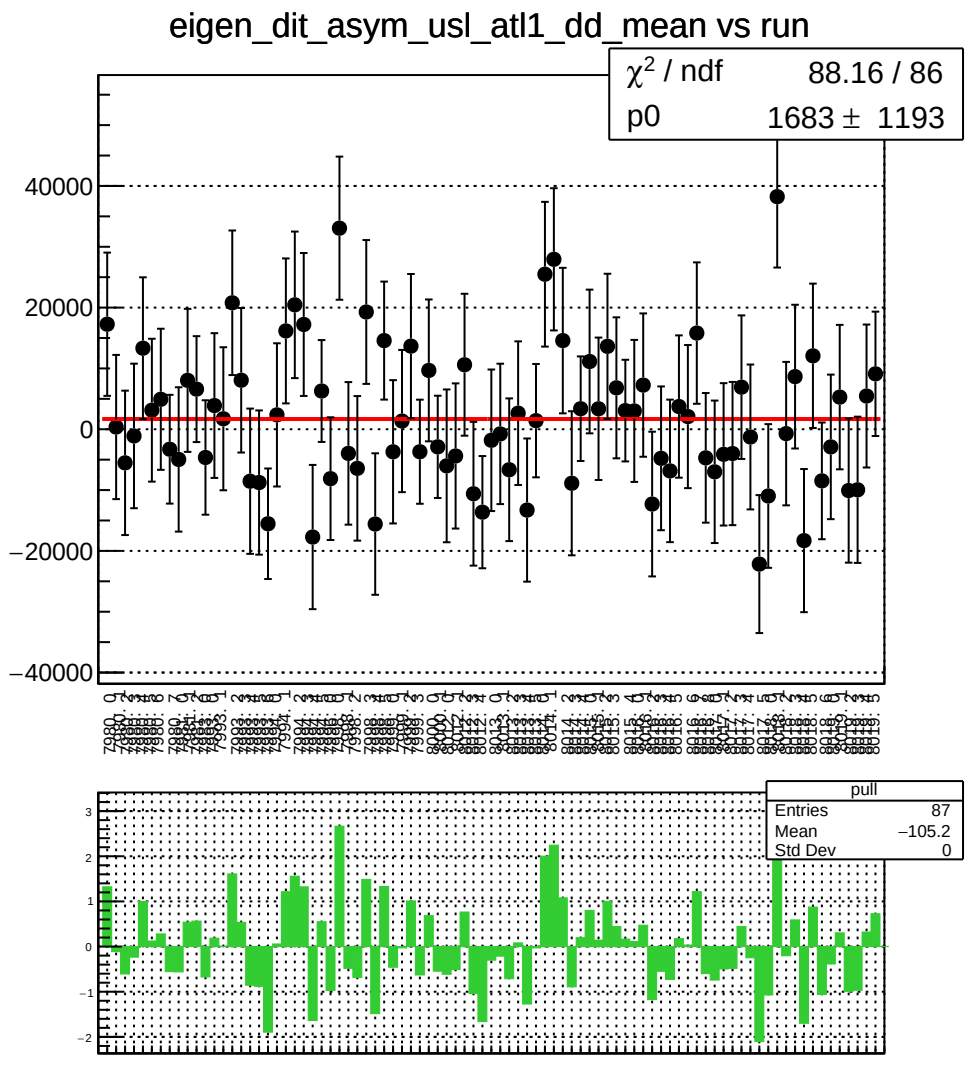

pull1D
Entries 87
Mean 0.01553
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

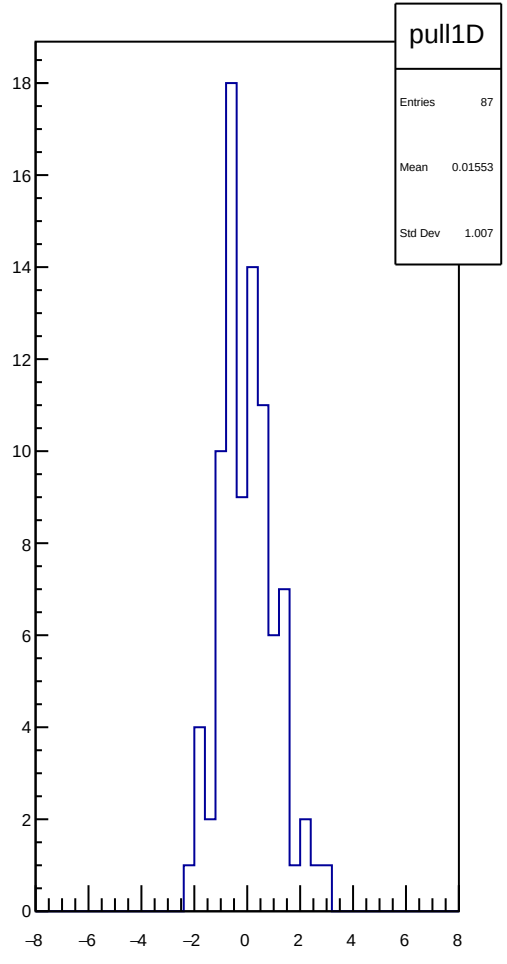

dit_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 193.6 / 86
p0 1120 ± 0.8437
1200
1180
1160
1140
1120
1100
1080

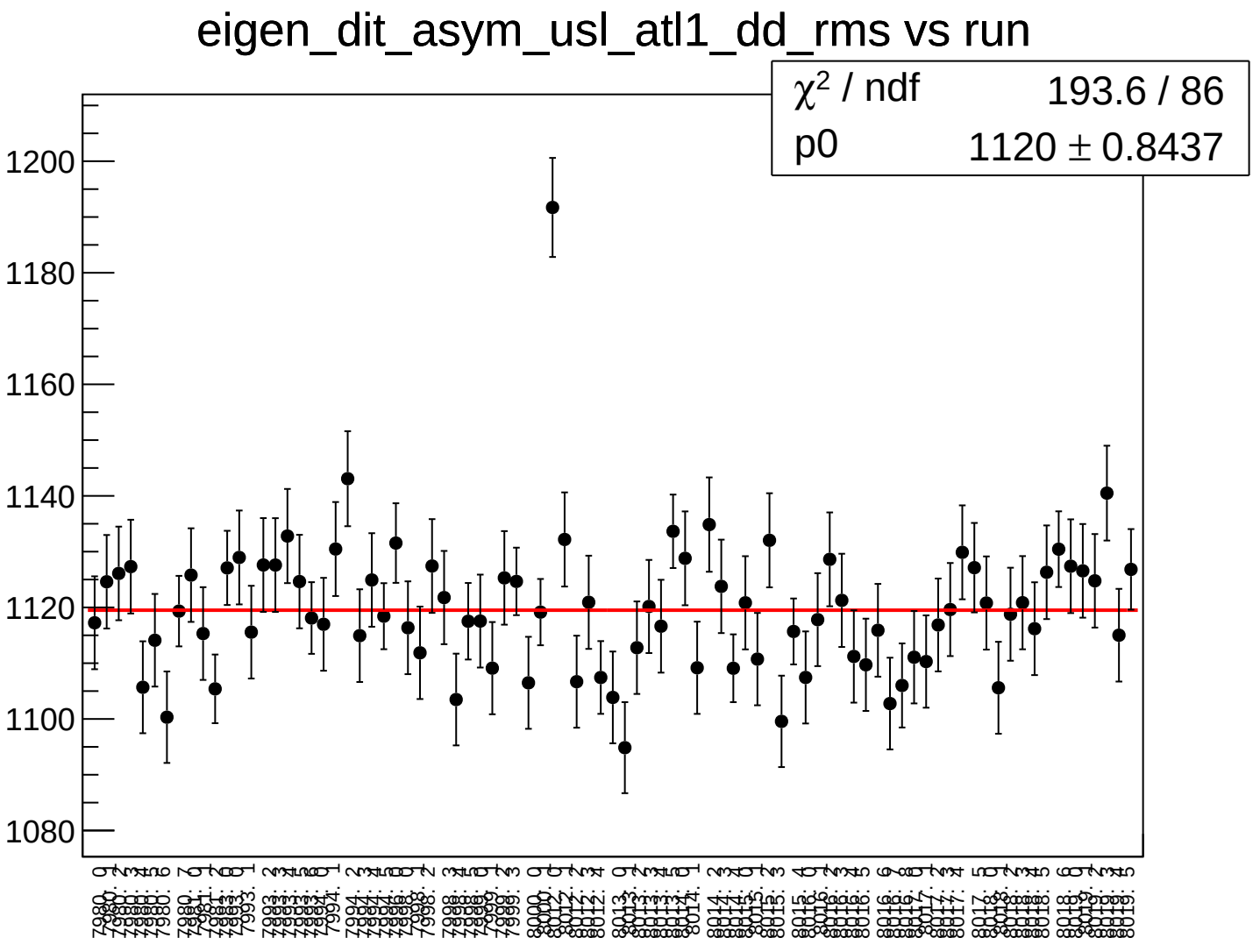

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 100.2 / 86
p0 −761.3 ± 540.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −65.56
Std Dev 0
3
2
1
0
−1
−2
−3

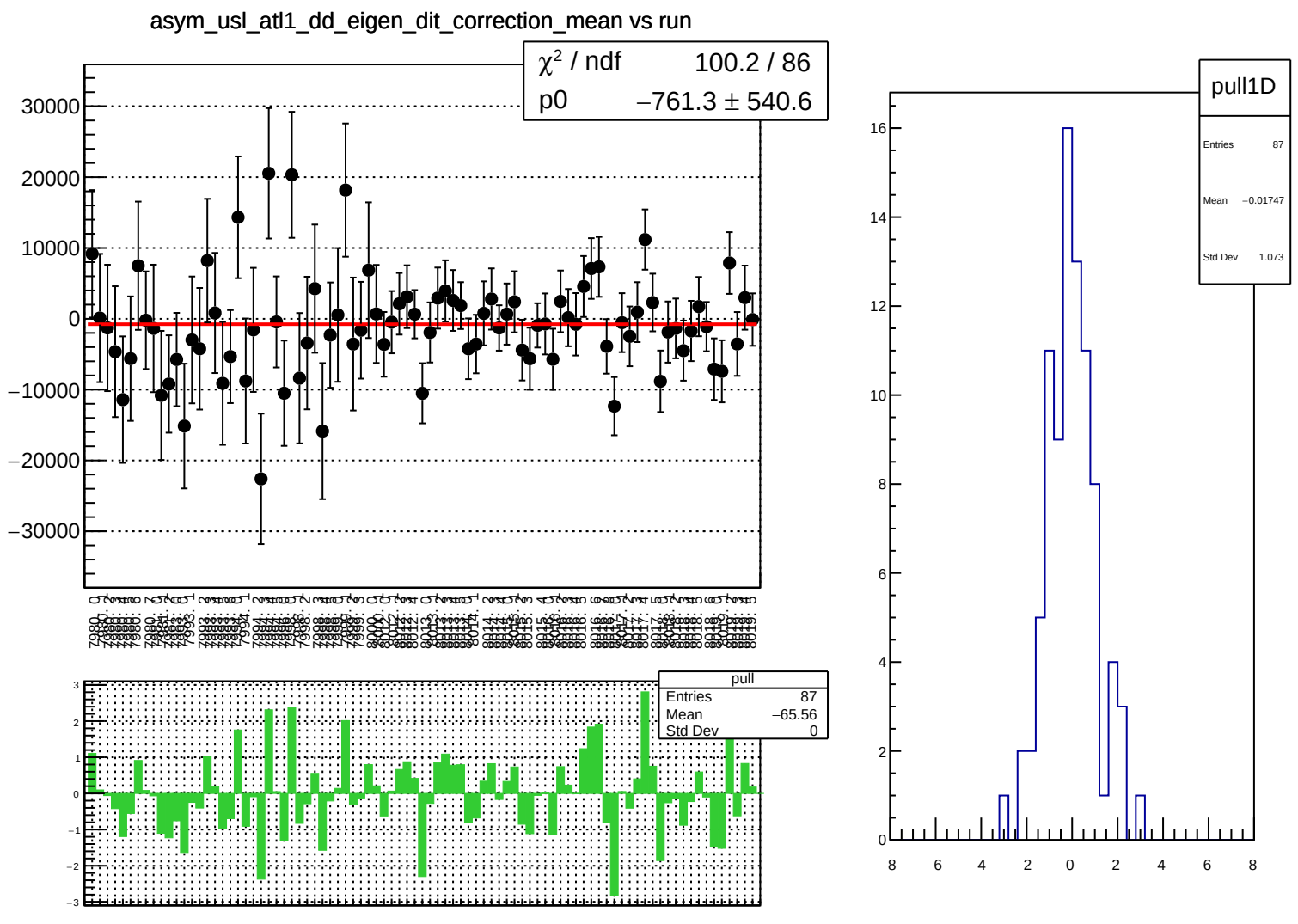

pull1D
Entries 87
Mean −0.01747
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

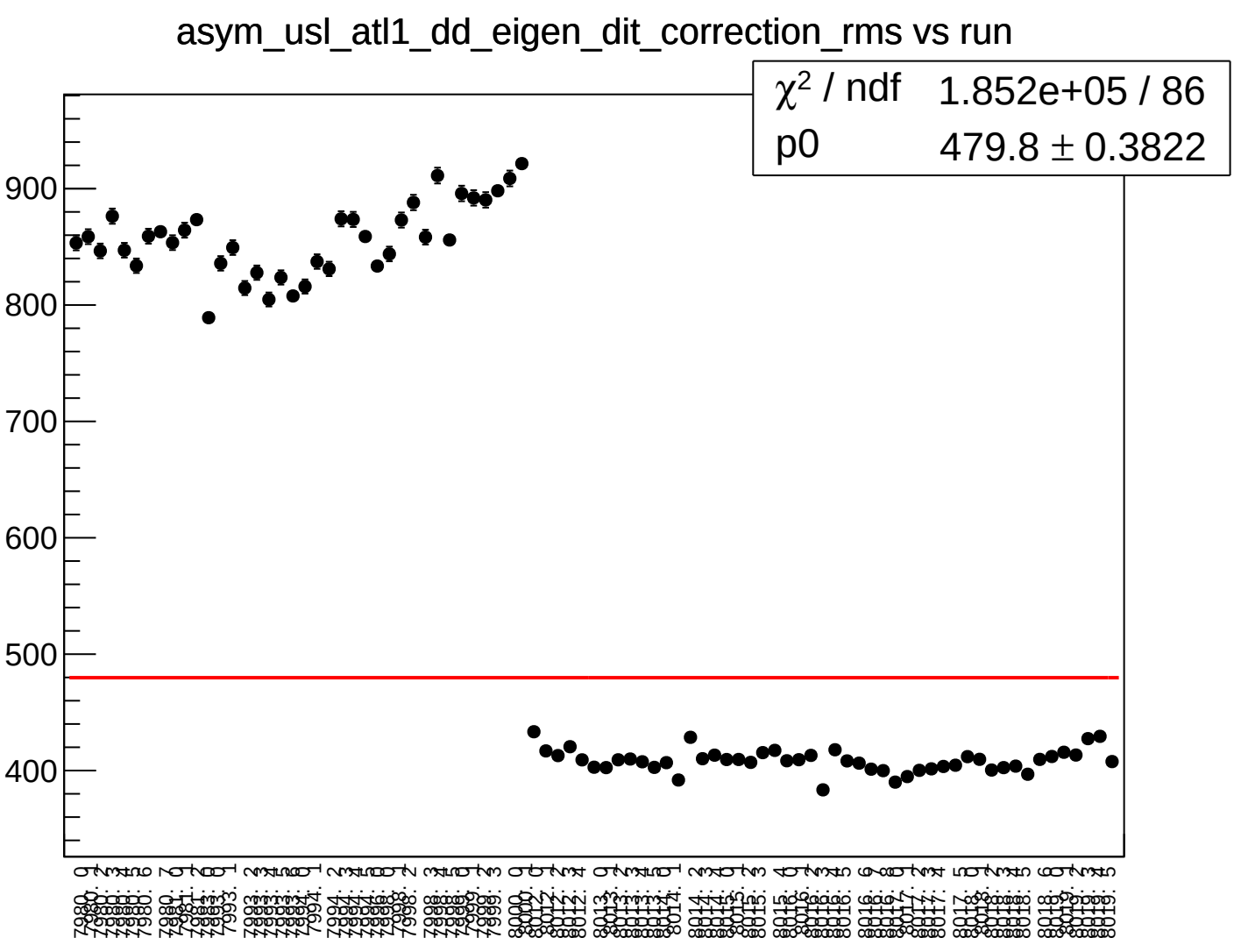

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.852e+05 / 86
p0 479.8 ± 0.3822
900
800
700
600
500
400

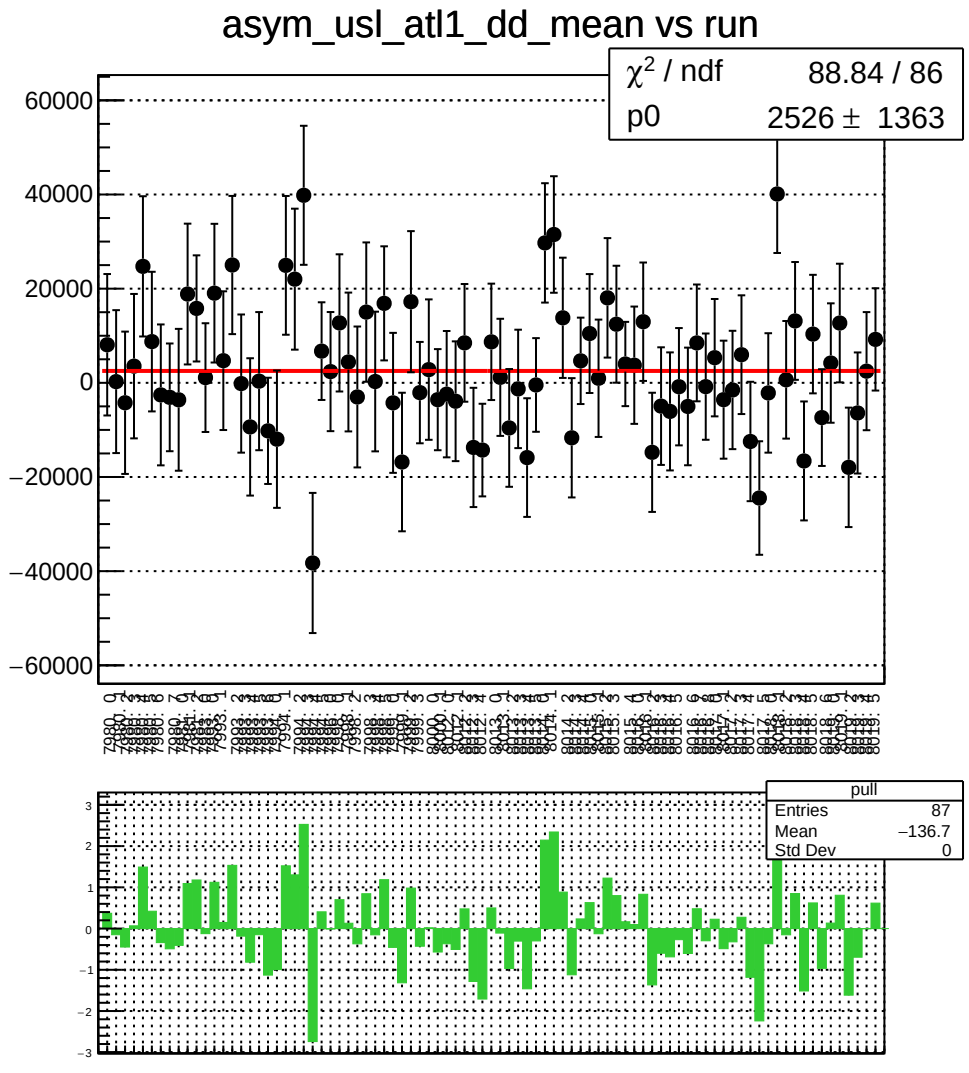

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 88.16 / 86
p0 1683 ± 1193
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −105.2
Std Dev 0
3
2
1
0
−1
−2

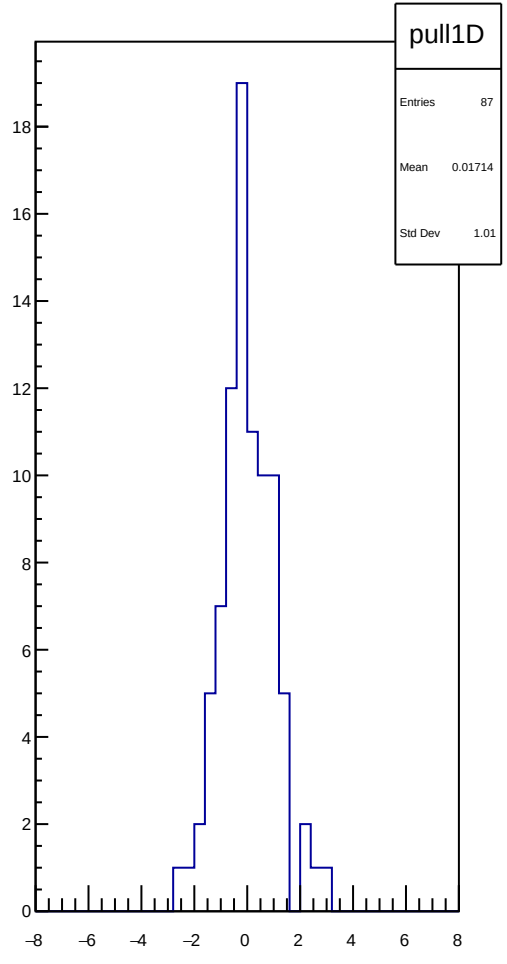

pull1D
Entries 87
Mean 0.01553
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

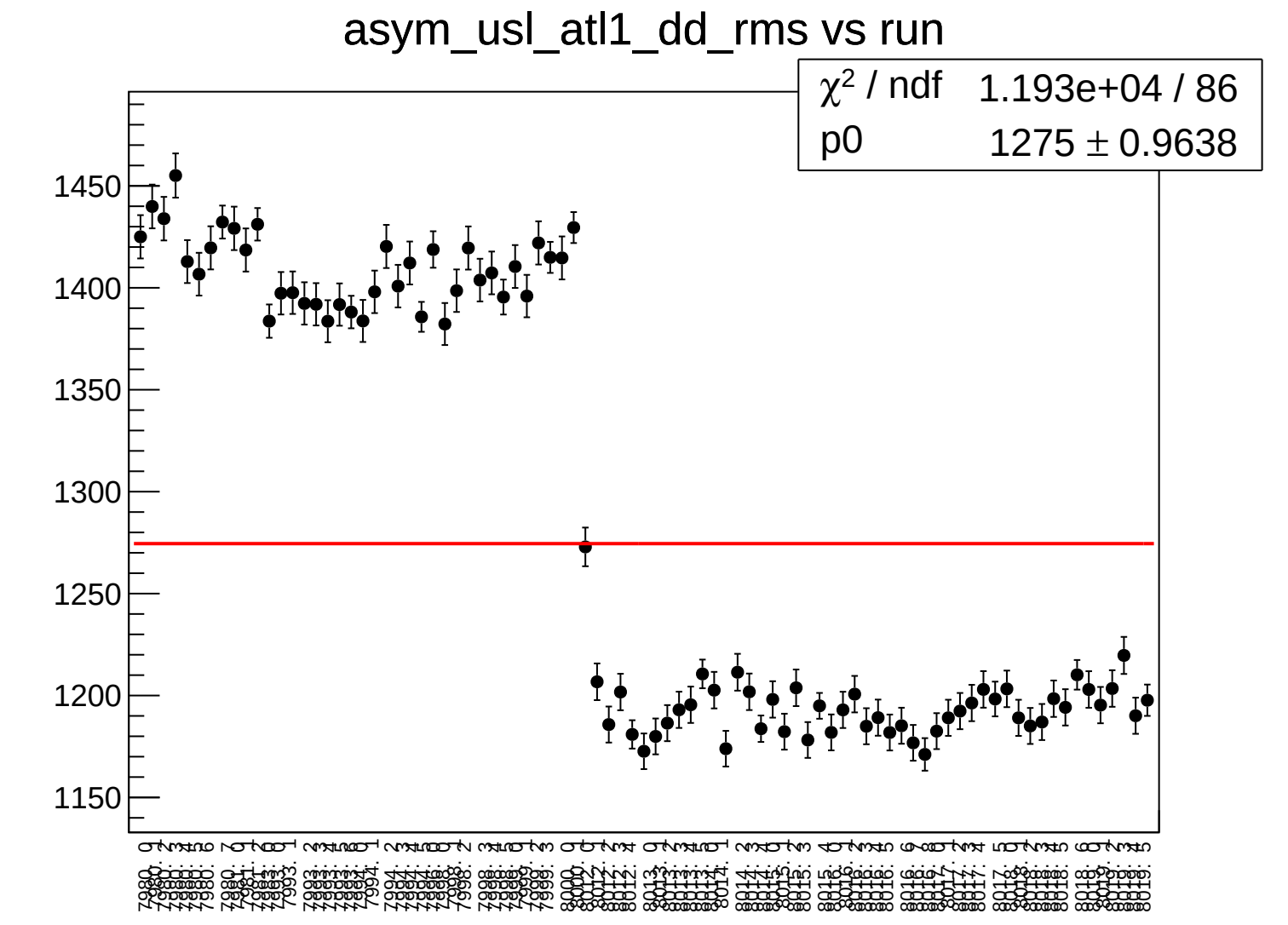

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 193.6 / 86
p0 1120 ± 0.8437
1200
1180
1160
1140
1120
1100
1080

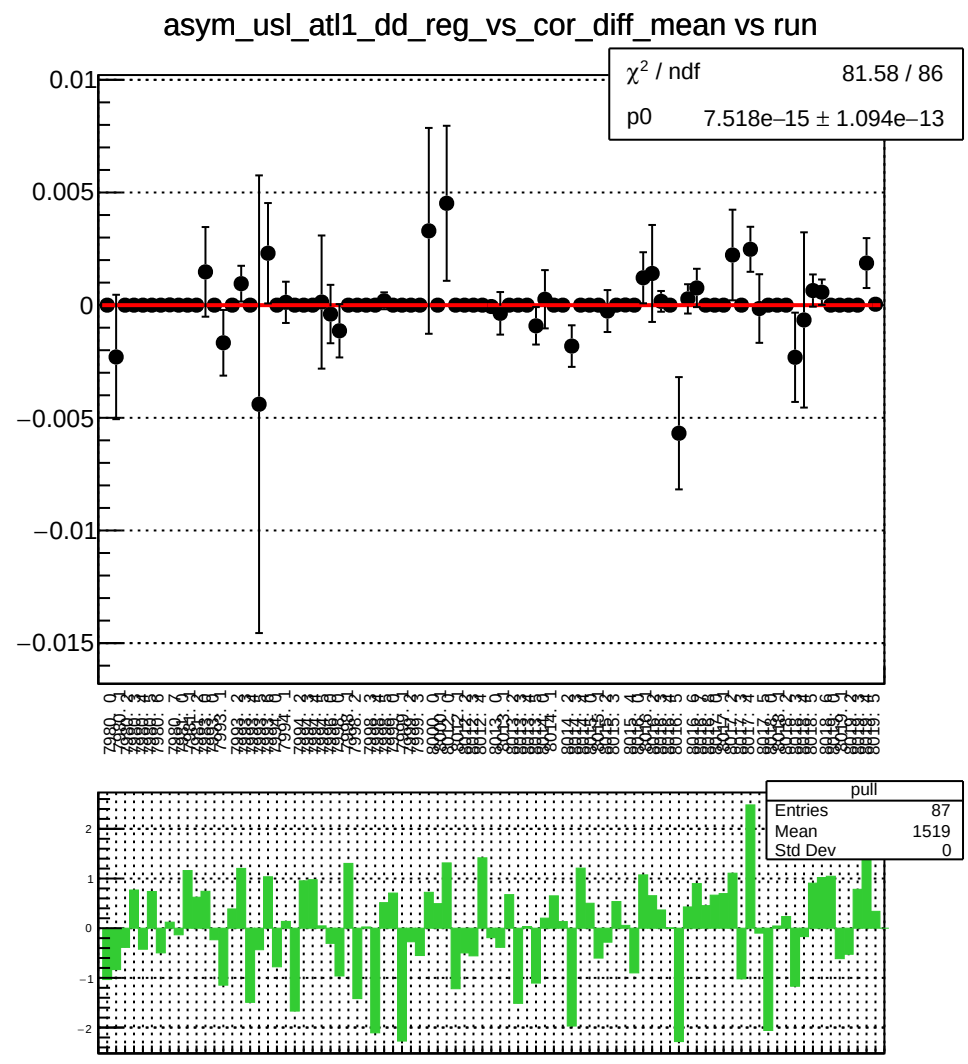

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.2 / 86
p0 −761.3 ± 540.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −65.56
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.01747
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

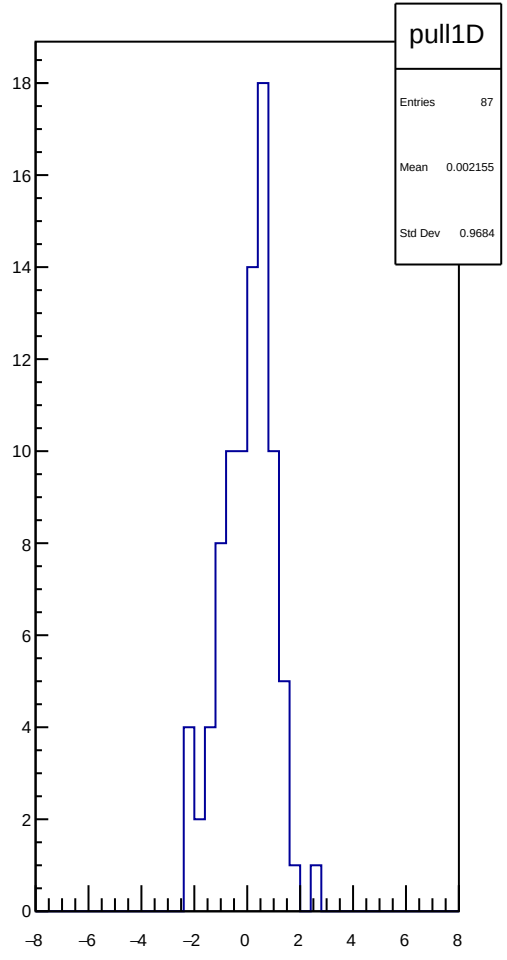

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.852e+05 / 86
p0 479.8 ± 0.3822
900
800
700
600
500
400

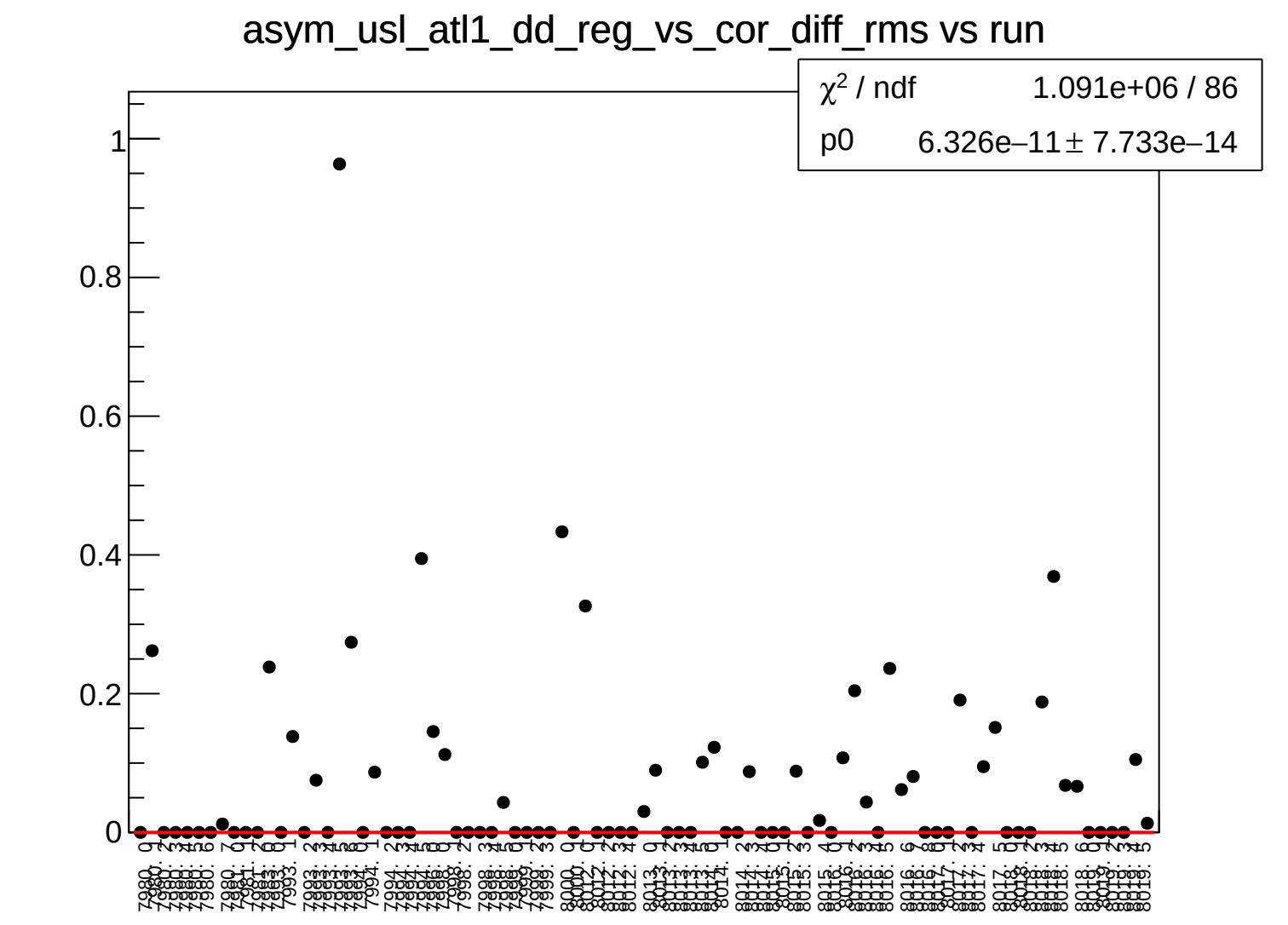

asym_usl_atl1_dd_mean vs run
χ² / ndf 88.84 / 86
p0 2526 ± 1363
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −136.7
Std Dev 0
3
2
1
0
−1
−2
−3

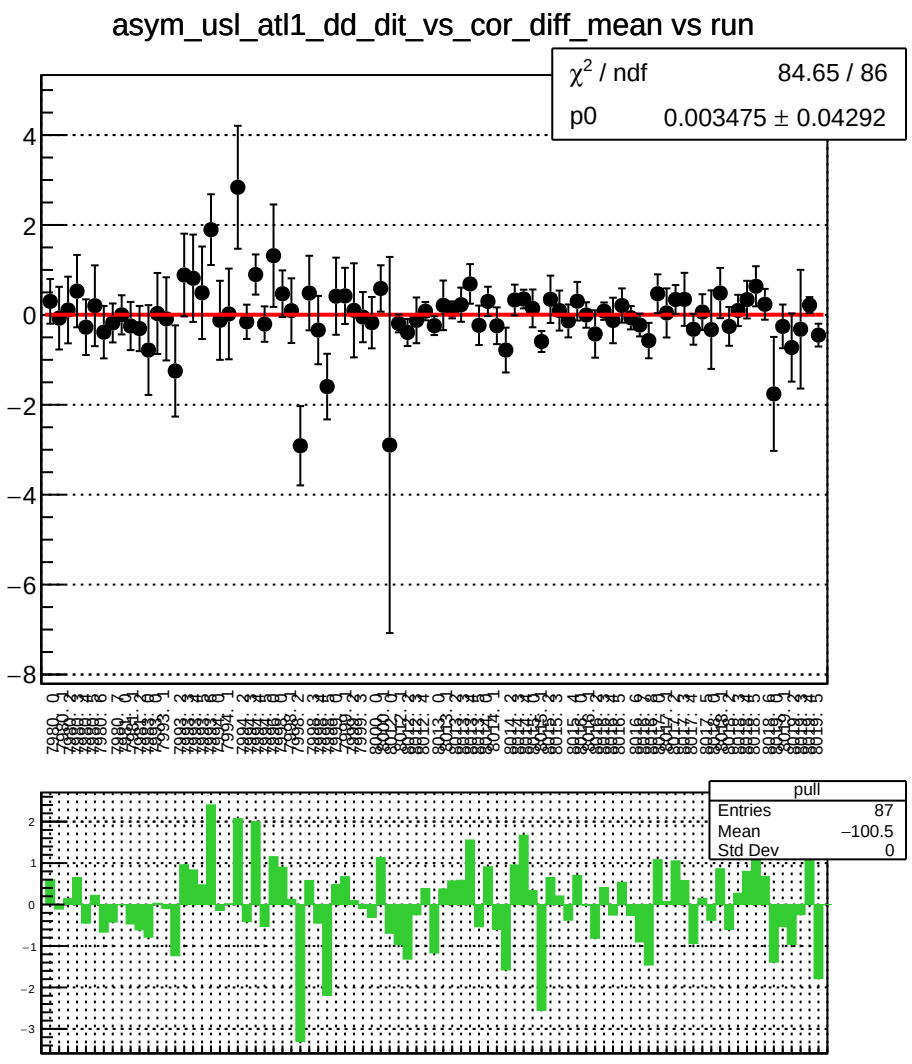

pull1D
Entries 87
Mean 0.01714
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

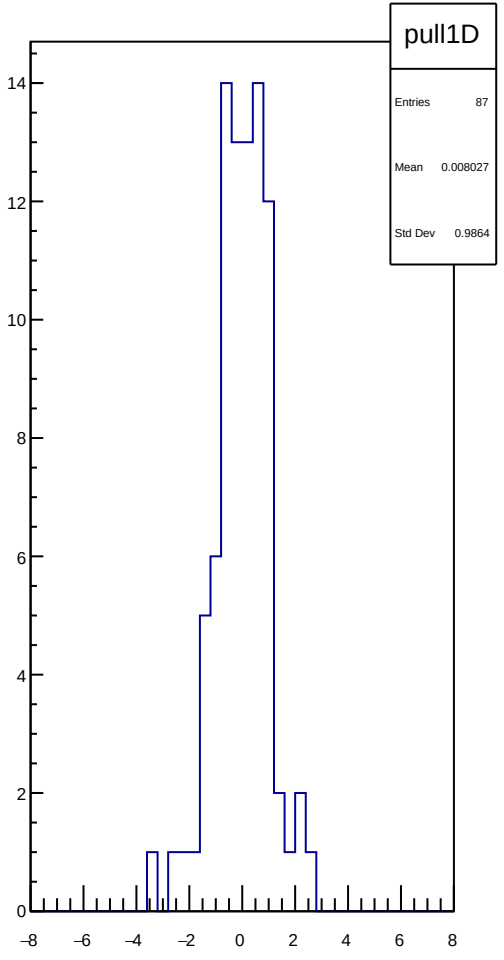

asym_usl_atl1_dd_rms vs run
χ² / ndf 1.193e+04 / 86
p0 1275 ± 0.9638
1450
1400
1350
1300
1250
1200
1150

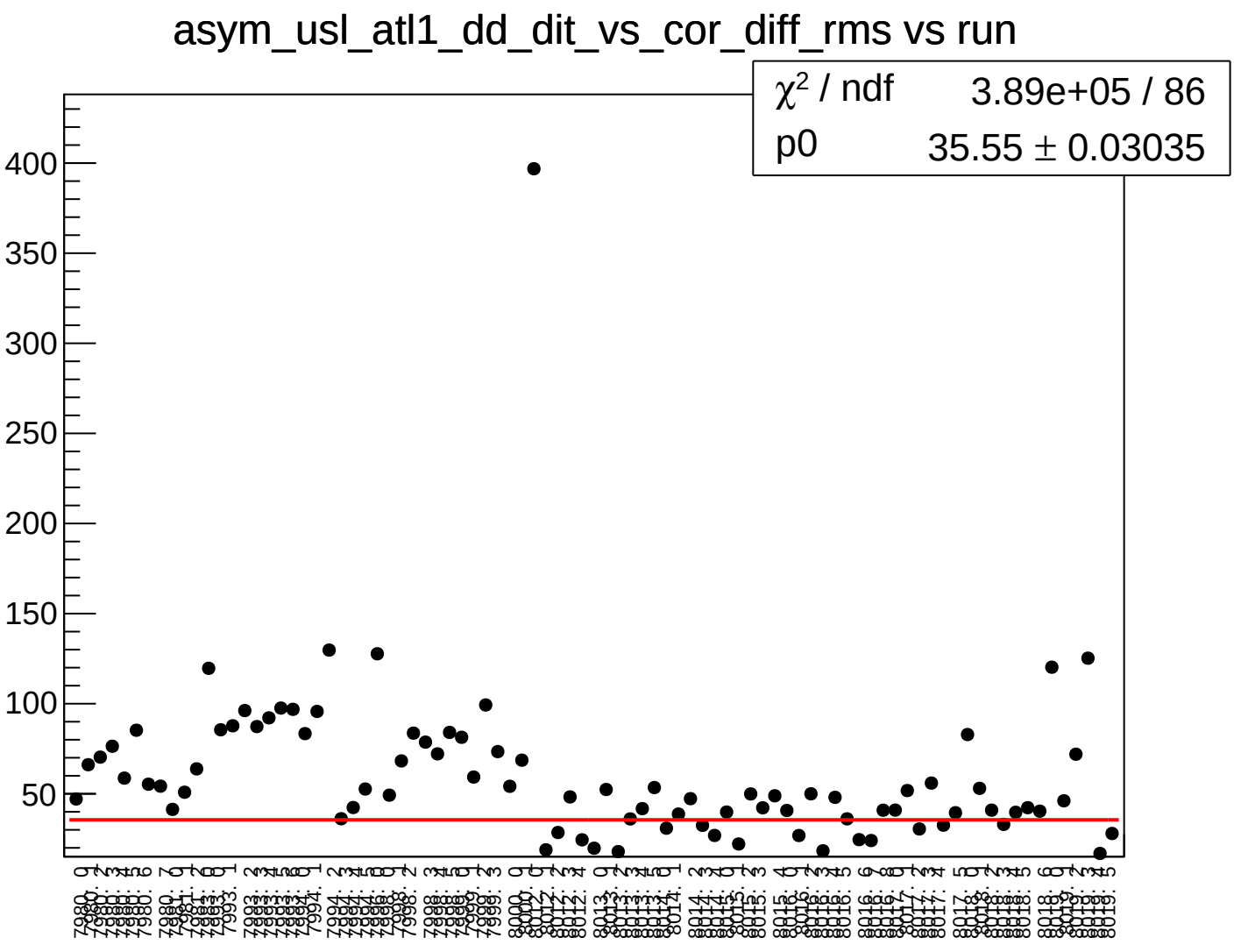

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.58 / 86
p0 7.518e−15 ± 1.094e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 87
Mean 1519
Std Dev 0
2
1
0
−1
−2

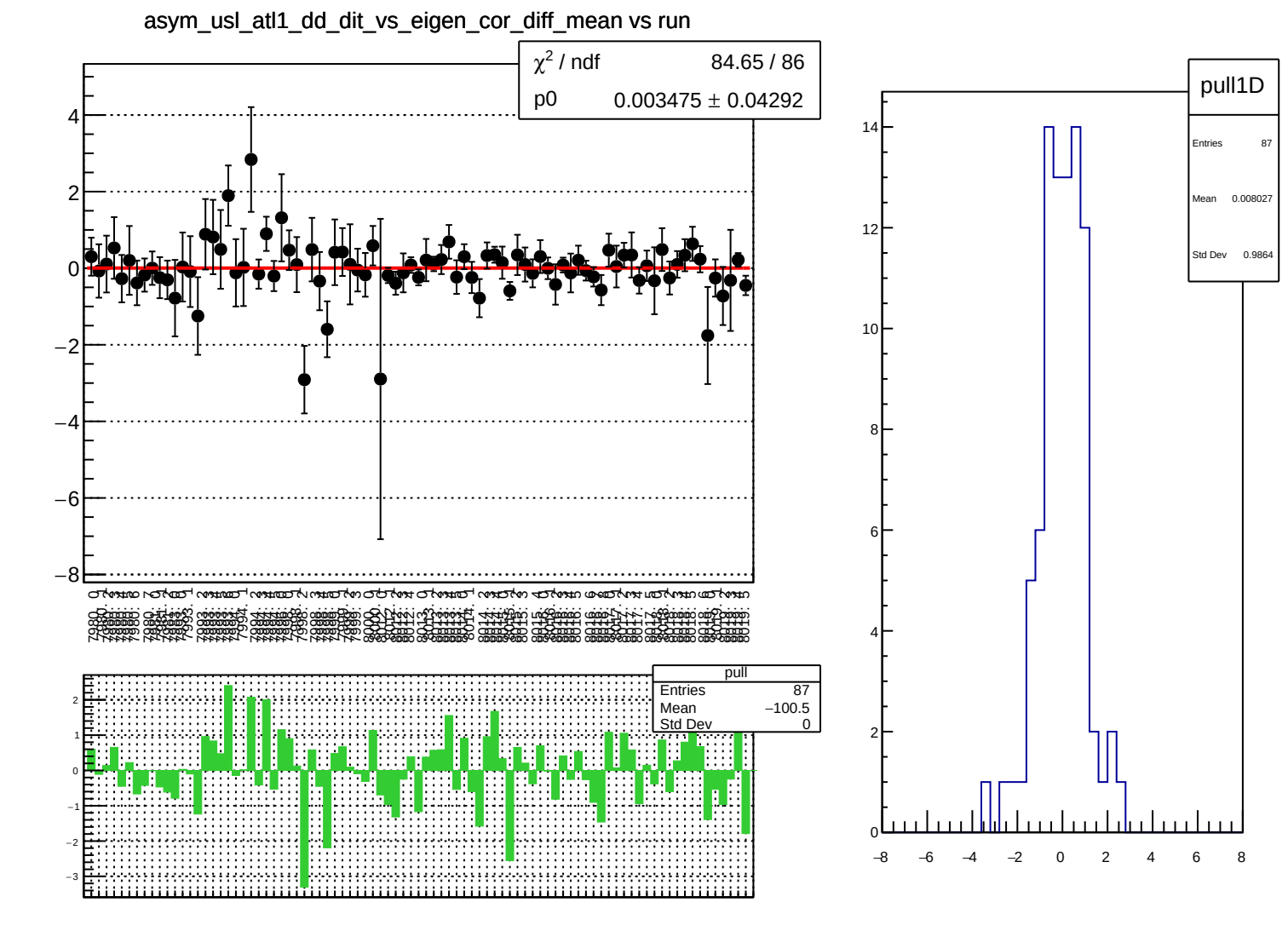

pull1D
Entries 87
Mean 0.002155
Std Dev 0.9684
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

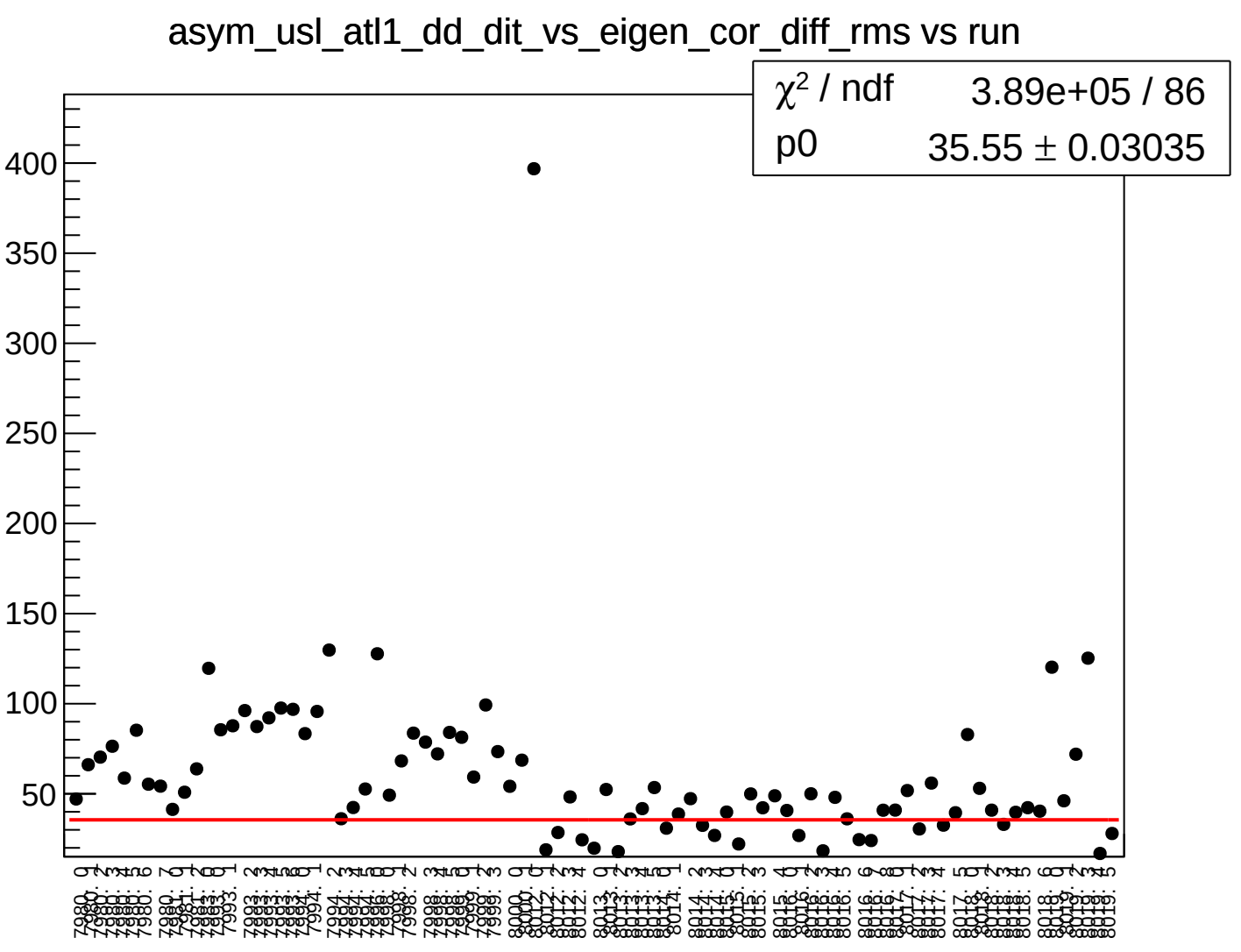

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.091e+06 / 86
p0 6.326e−11 ± 7.733e−14
1
0.8
0.6
0.4
0.2
0

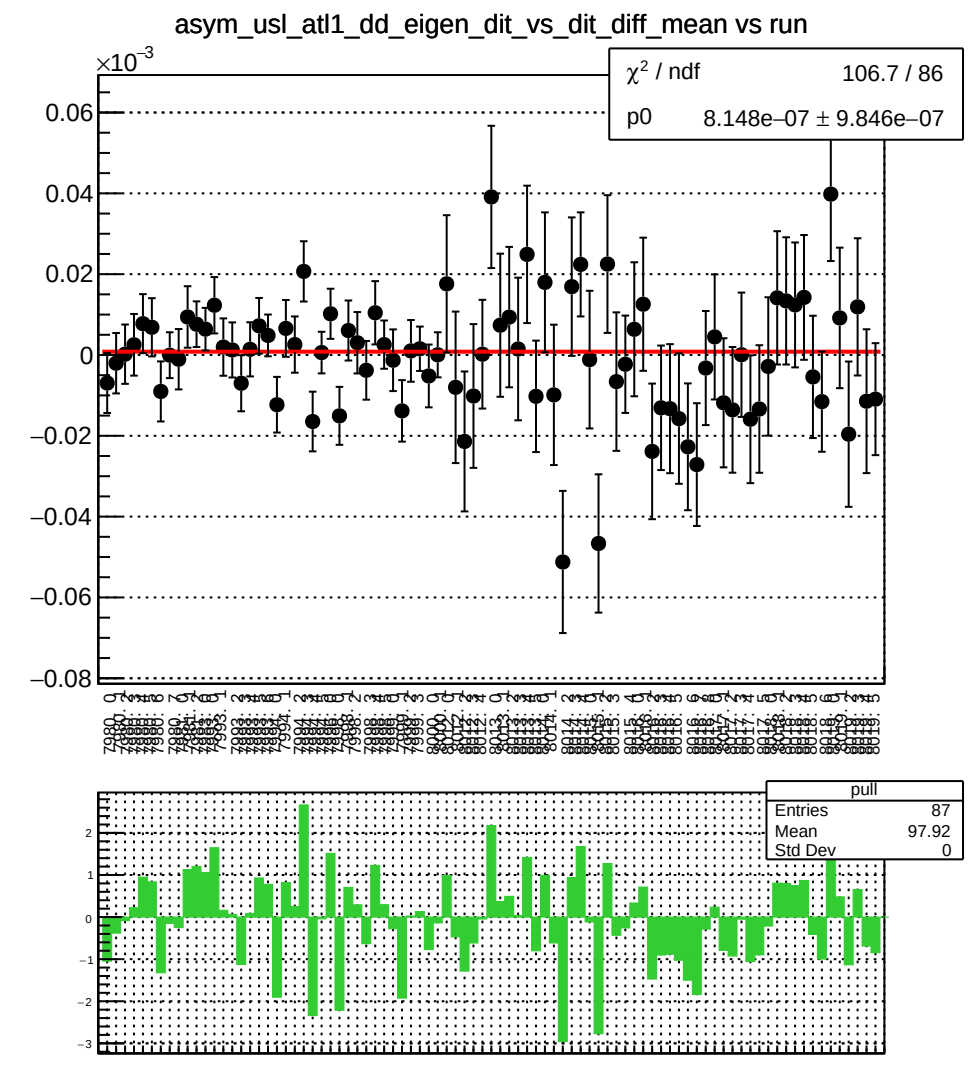

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.65 / 86
p0 0.003475 ± 0.04292
pull
Entries 87
Mean −100.5
Std Dev 0

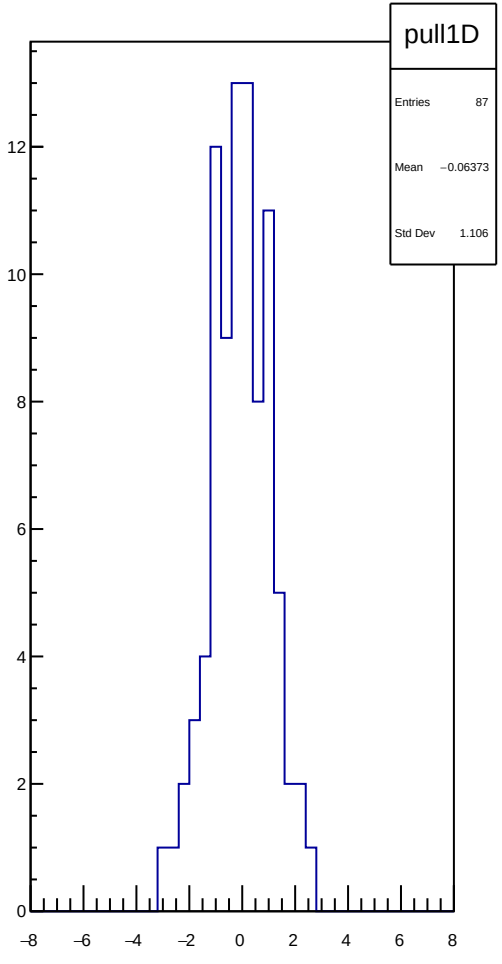

pull1D
Entries 87
Mean 0.008027
Std Dev 0.9864

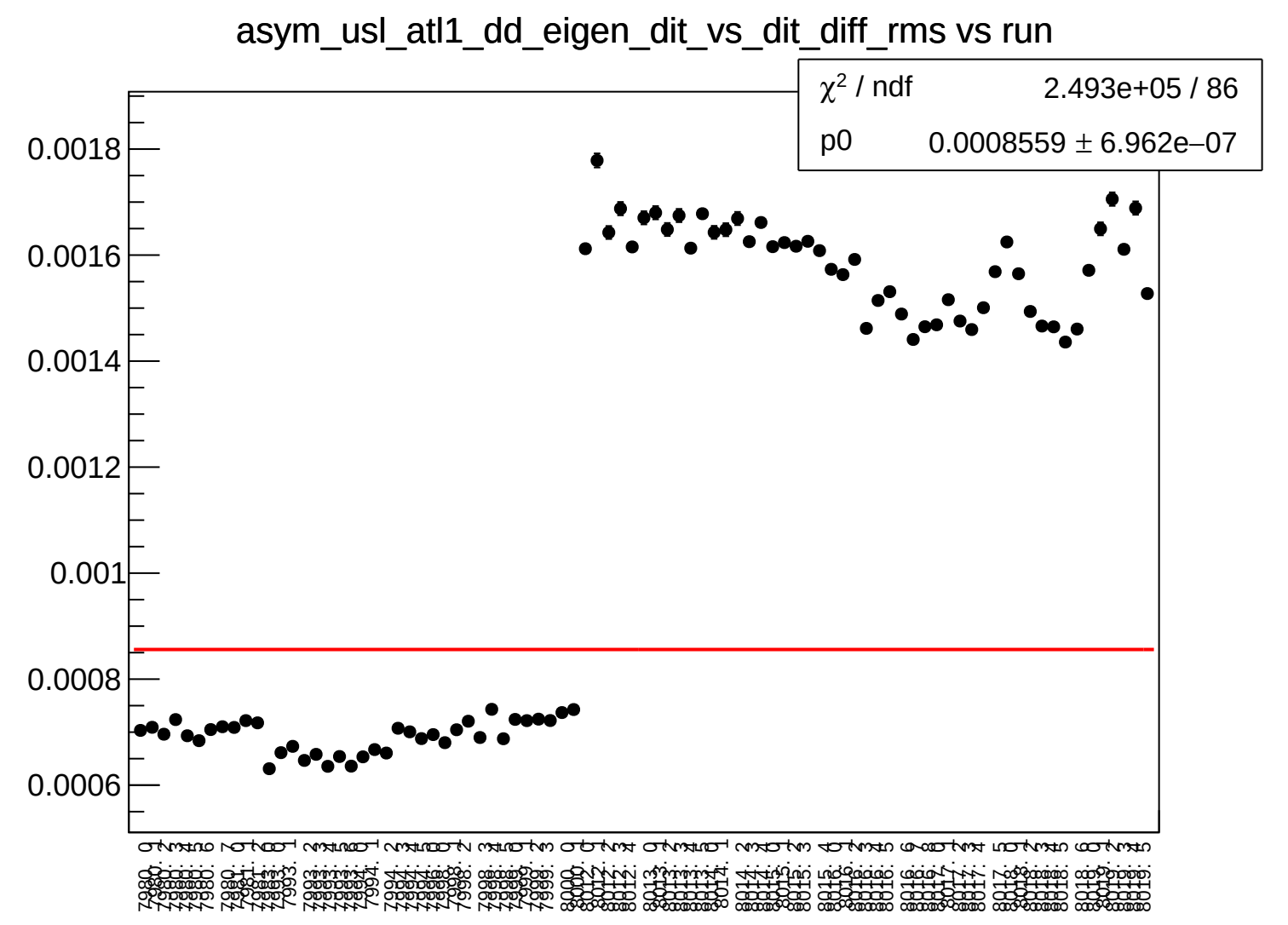

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.89e+05 / 86
p0 35.55 ± 0.03035
400
350
300
250
200
150
100
50

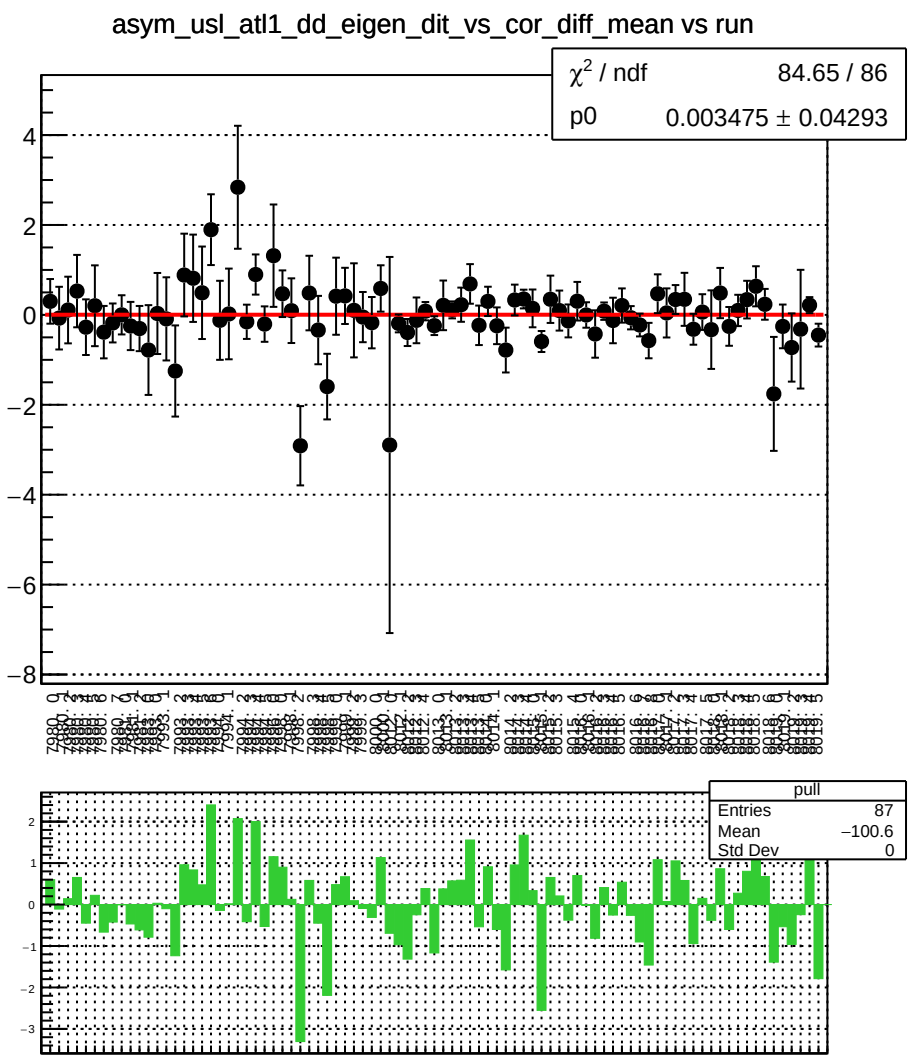

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.65 / 86
p0 0.003475 ± 0.04292
pull
Entries 87
Mean −100.5
Std Dev 0
pull1D
Entries 87
Mean 0.008027
Std Dev 0.9864

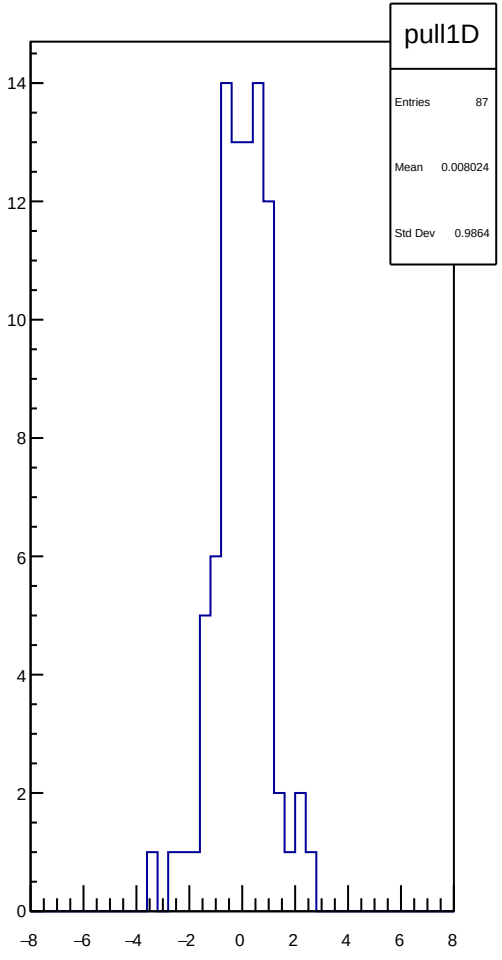

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.89e+05 / 86
p0 35.55 ± 0.03035
400
350
300
250
200
150
100
50

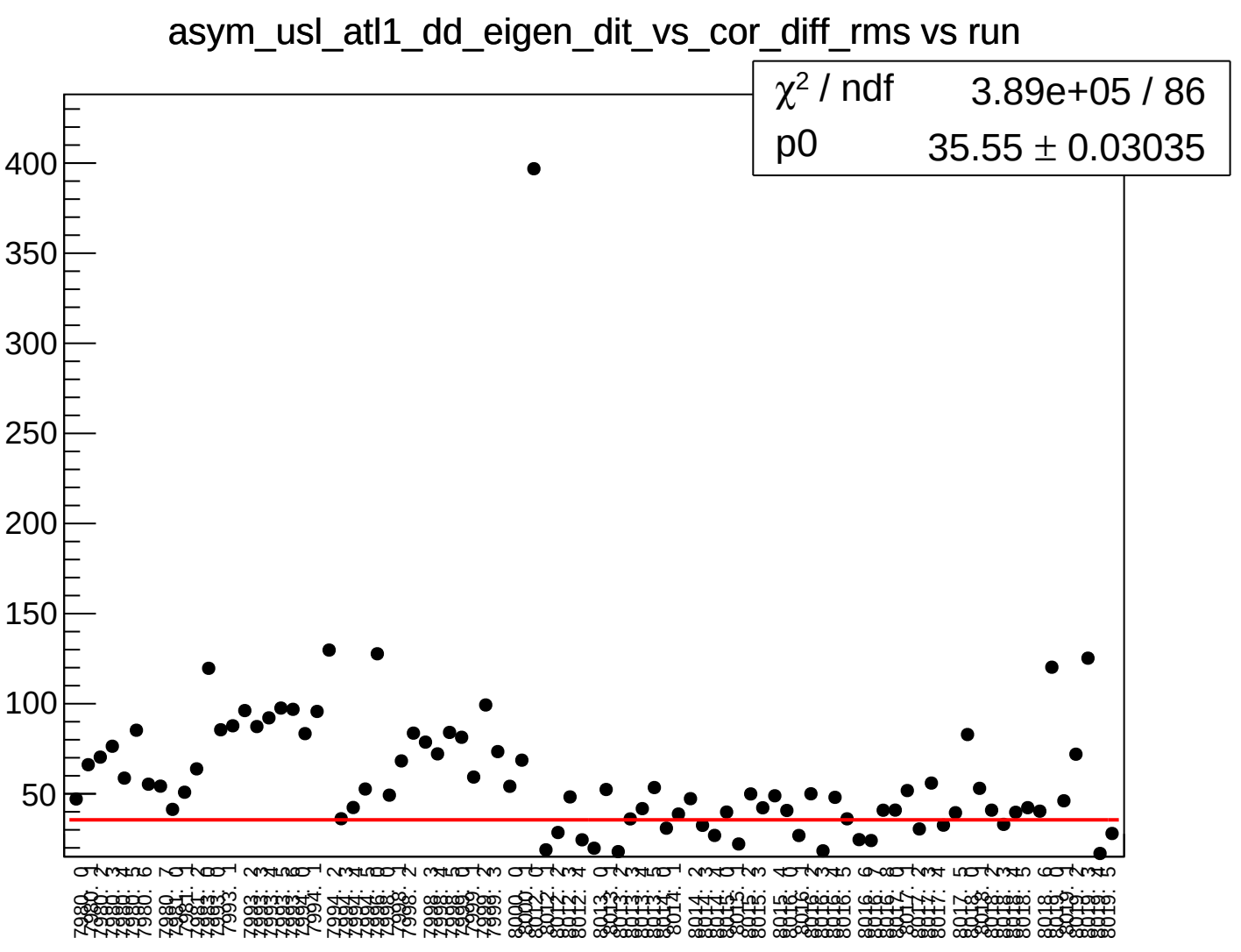

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.7 / 86
p0 8.148e−07 ± 9.846e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 87
Mean 97.92
Std Dev 0
2
1
0
−1
−2
−3

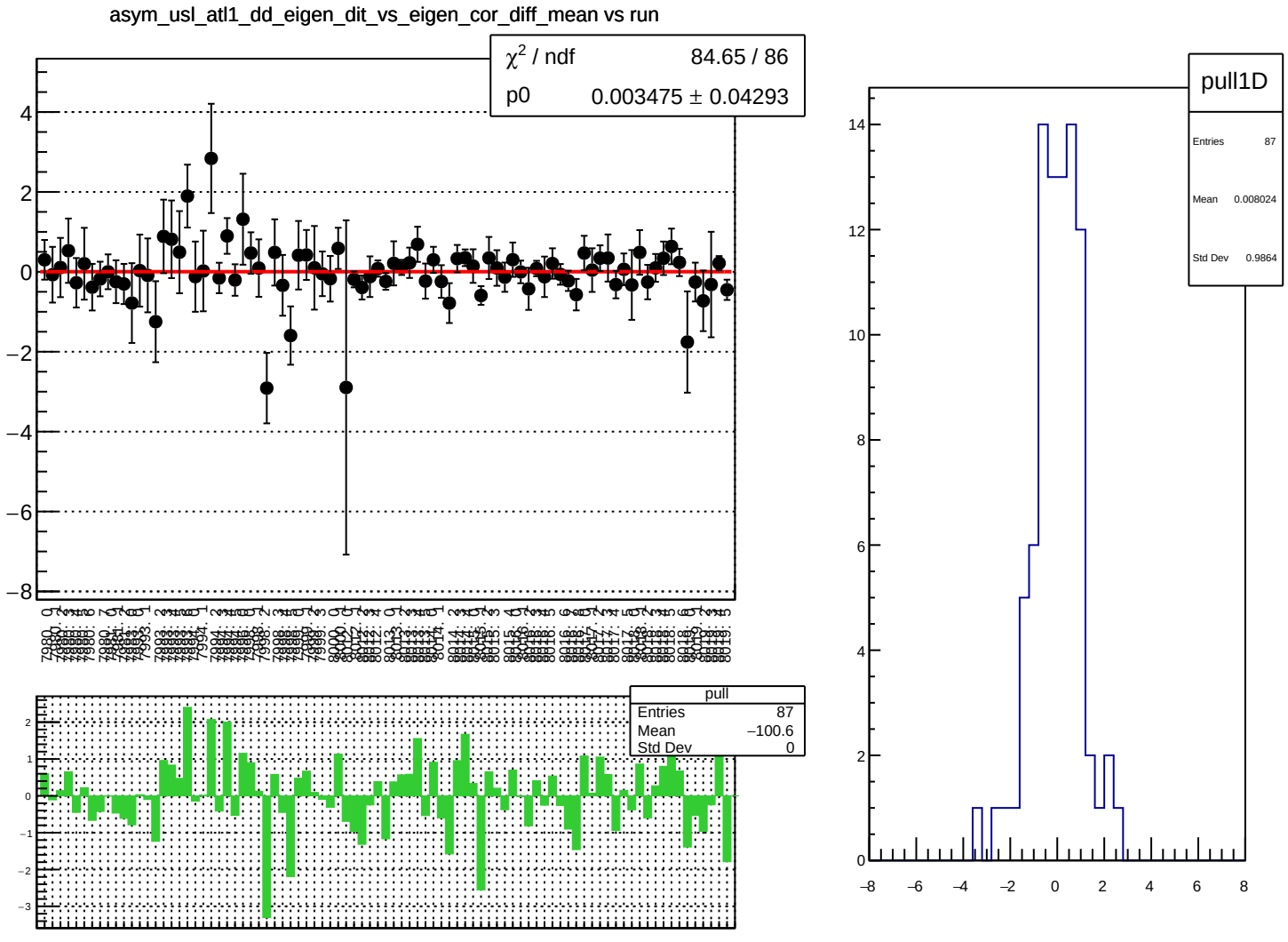

pull1D
Entries 87
Mean −0.06373
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

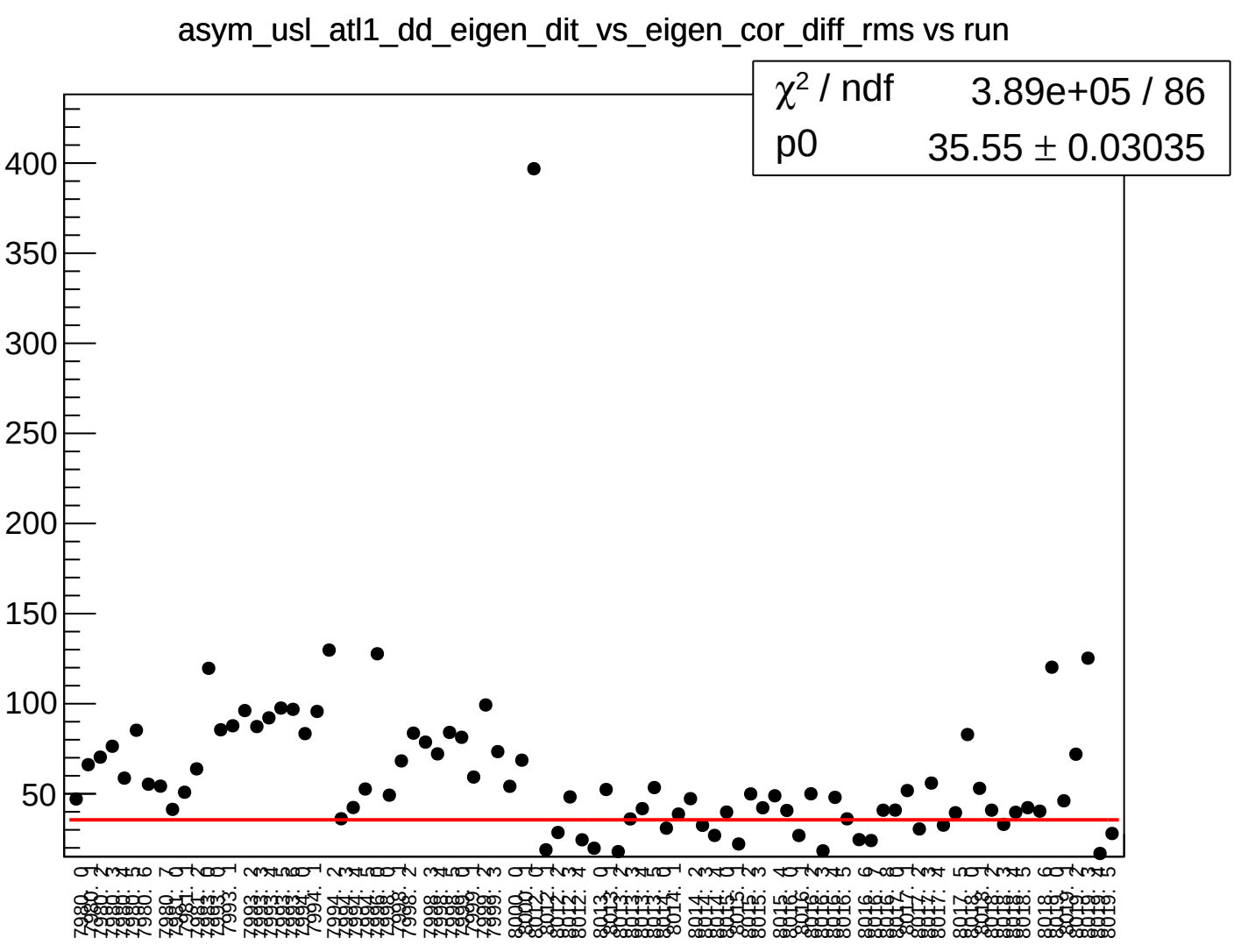

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.493e+05 / 86
p0 0.0008559 ± 6.962e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

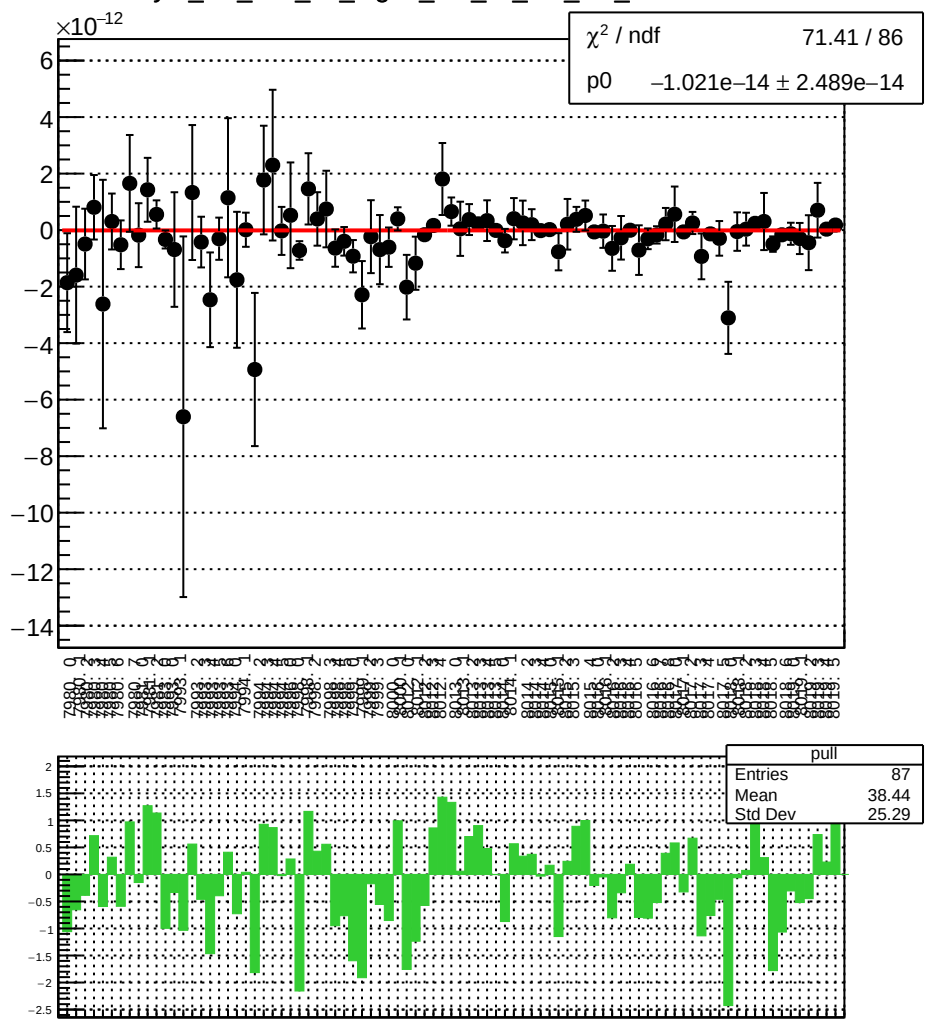

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.65 / 86
p0 0.003475 ± 0.04293
pull
Entries 87
Mean −100.6
Std Dev 0

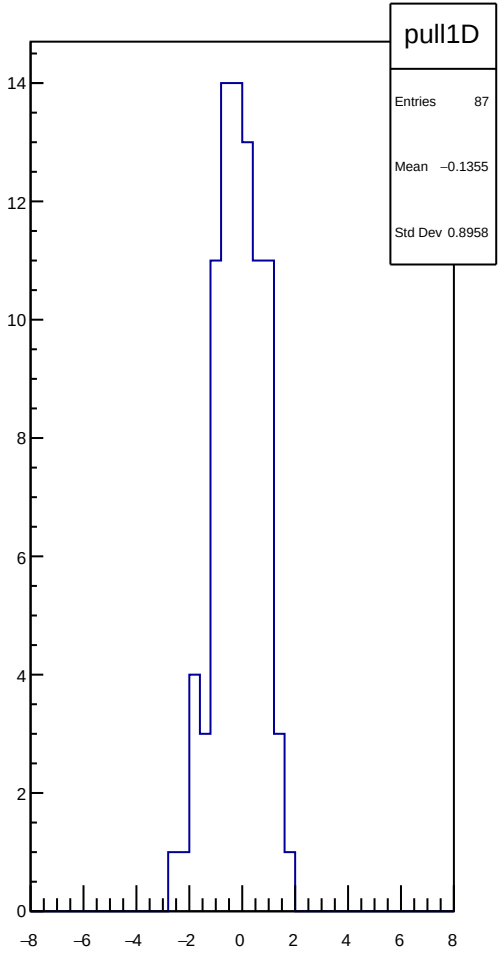

pull1D
Entries 87
Mean 0.008024
Std Dev 0.9864

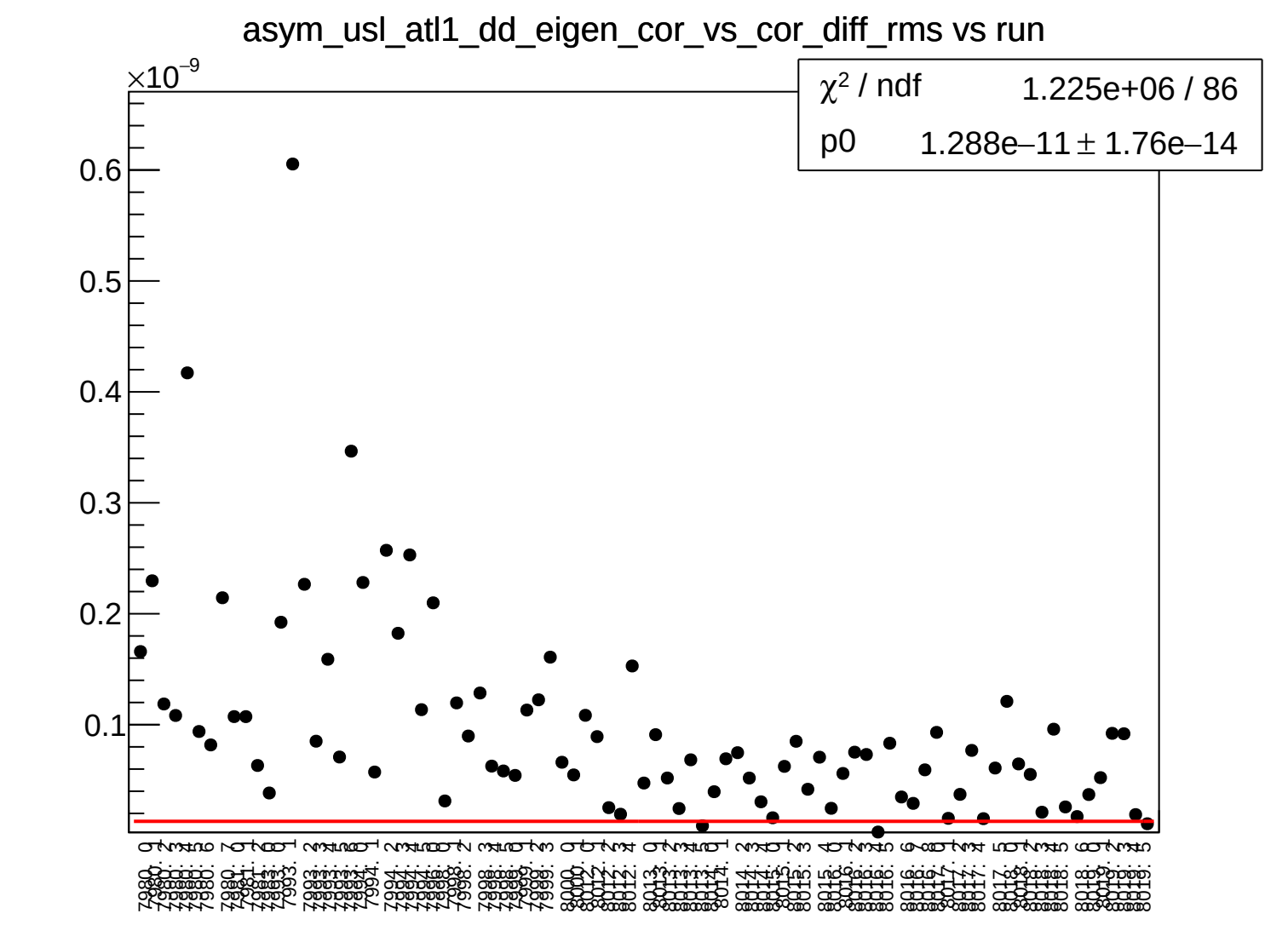

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.89e+05 / 86
p0 35.55 ± 0.03035
400
350
300
250
200
150
100
50

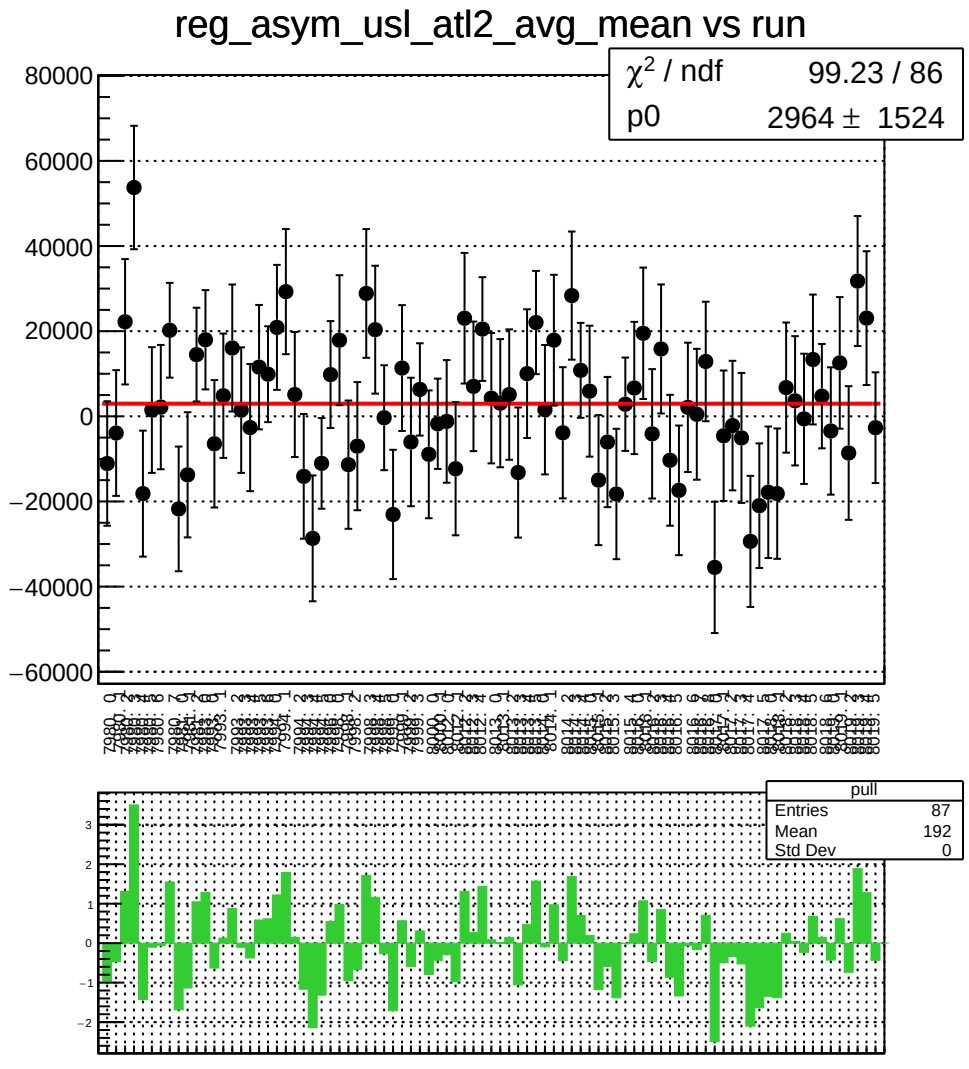

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.65 / 86
p0 0.003475 ± 0.04293
pull
Entries 87
Mean −100.6
Std Dev 0
pull1D
Entries 87
Mean 0.008024
Std Dev 0.9864

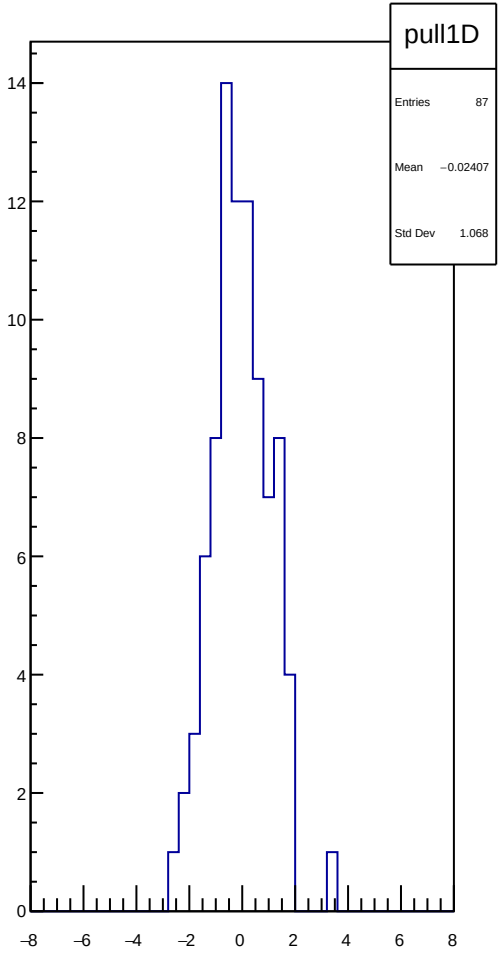

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.89e+05 / 86
p0 35.55 ± 0.03035
400
350
300
250
200
150
100
50

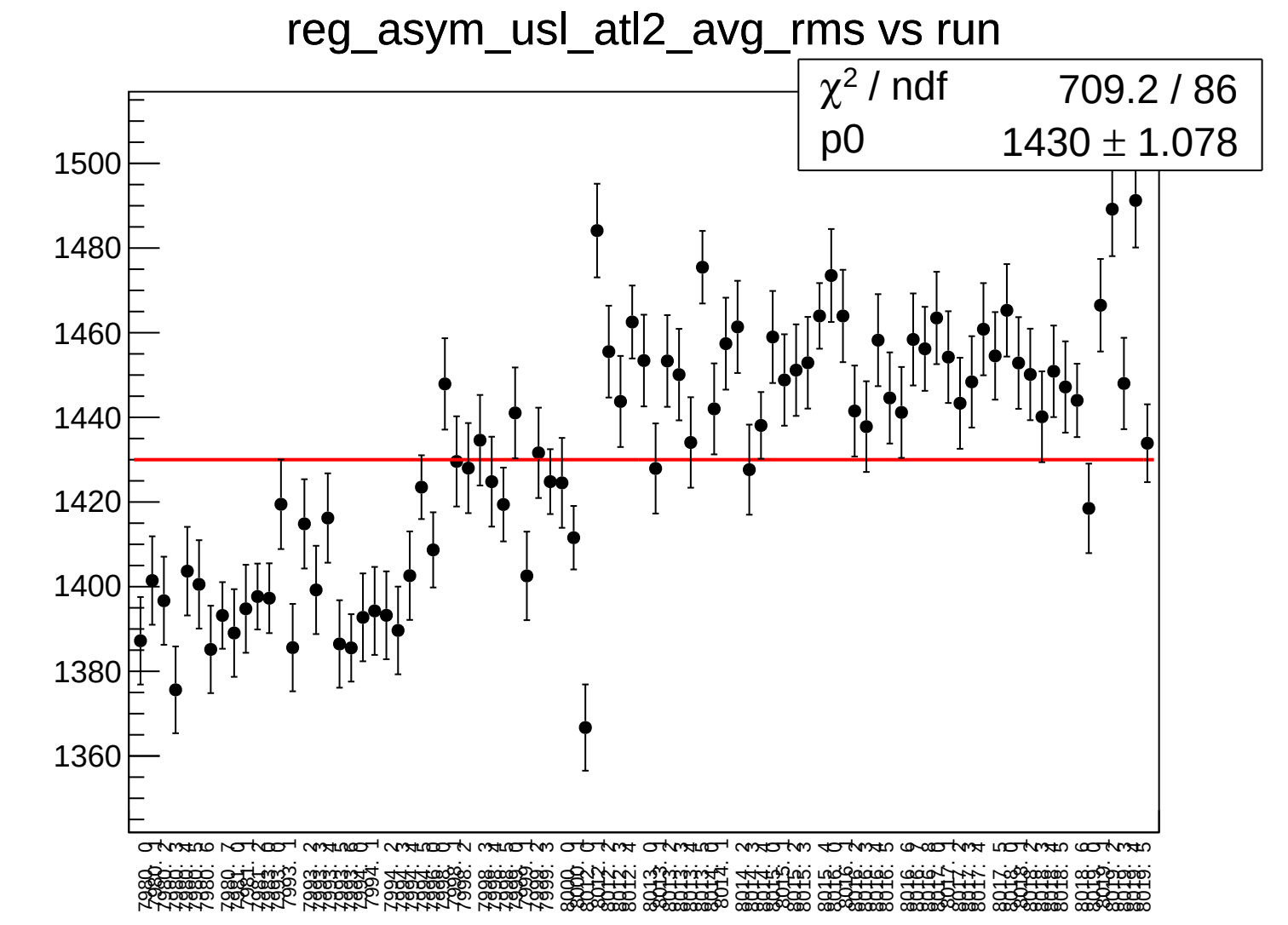

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.41 / 86
p0 −1.021e−14 ± 2.489e−14
pull
Entries 87
Mean 38.44
Std Dev 25.29

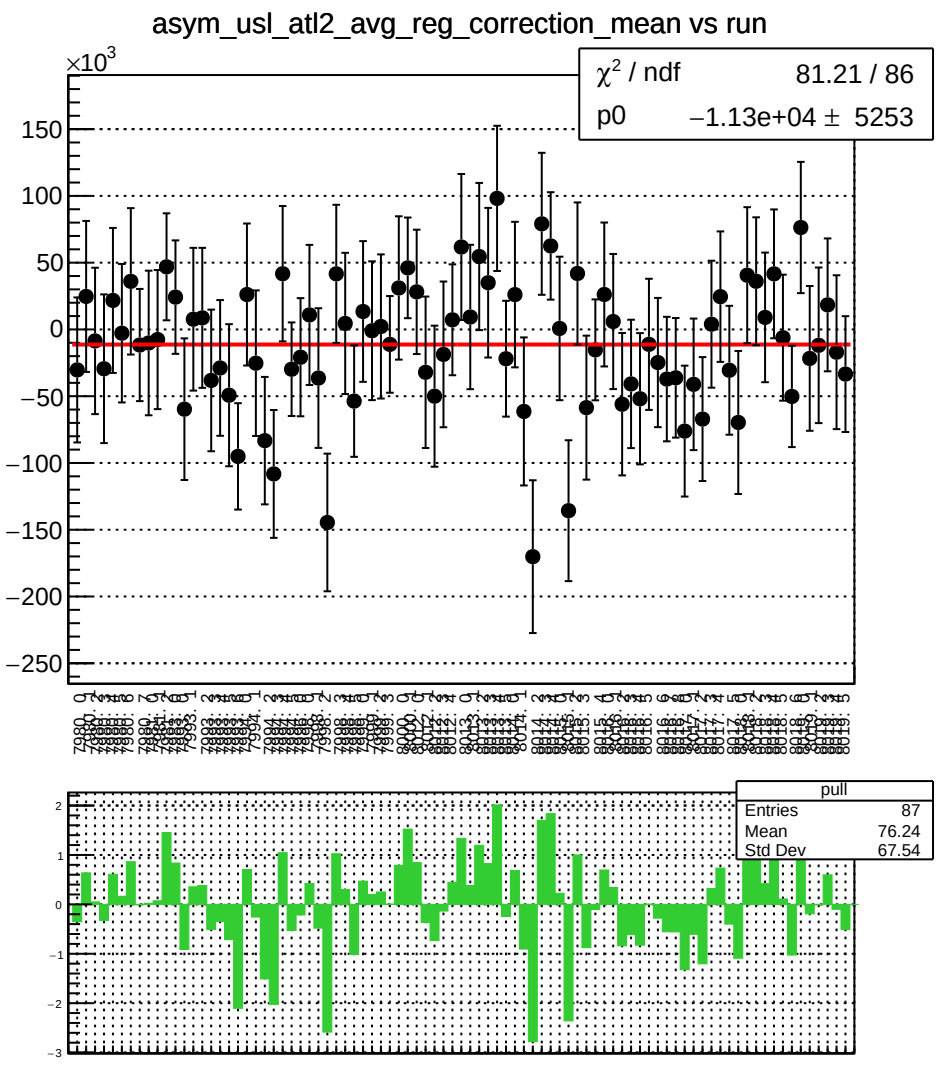

pull1D
Entries 87
Mean −0.1355
Std Dev 0.8958

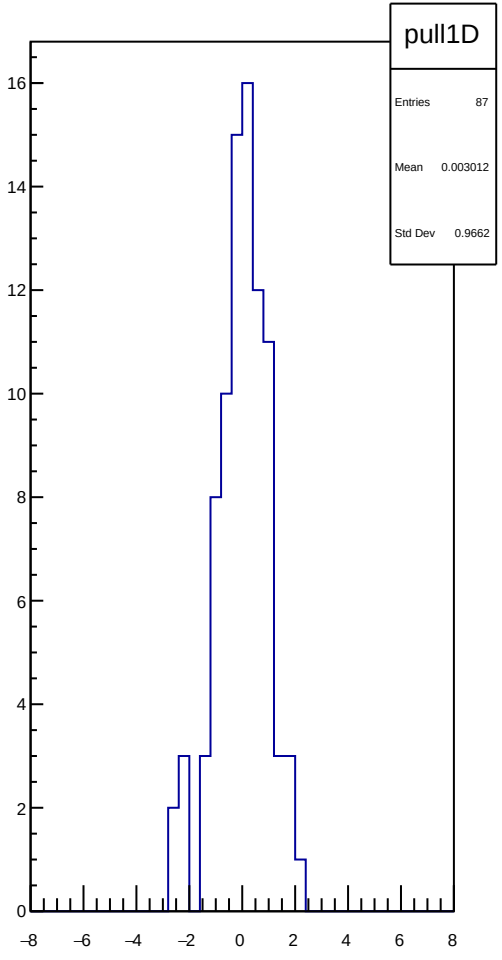

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.225e+06 / 86
p0 1.288e−11 ± 1.76e−14
0.6
0.5
0.4
0.3
0.2
0.1

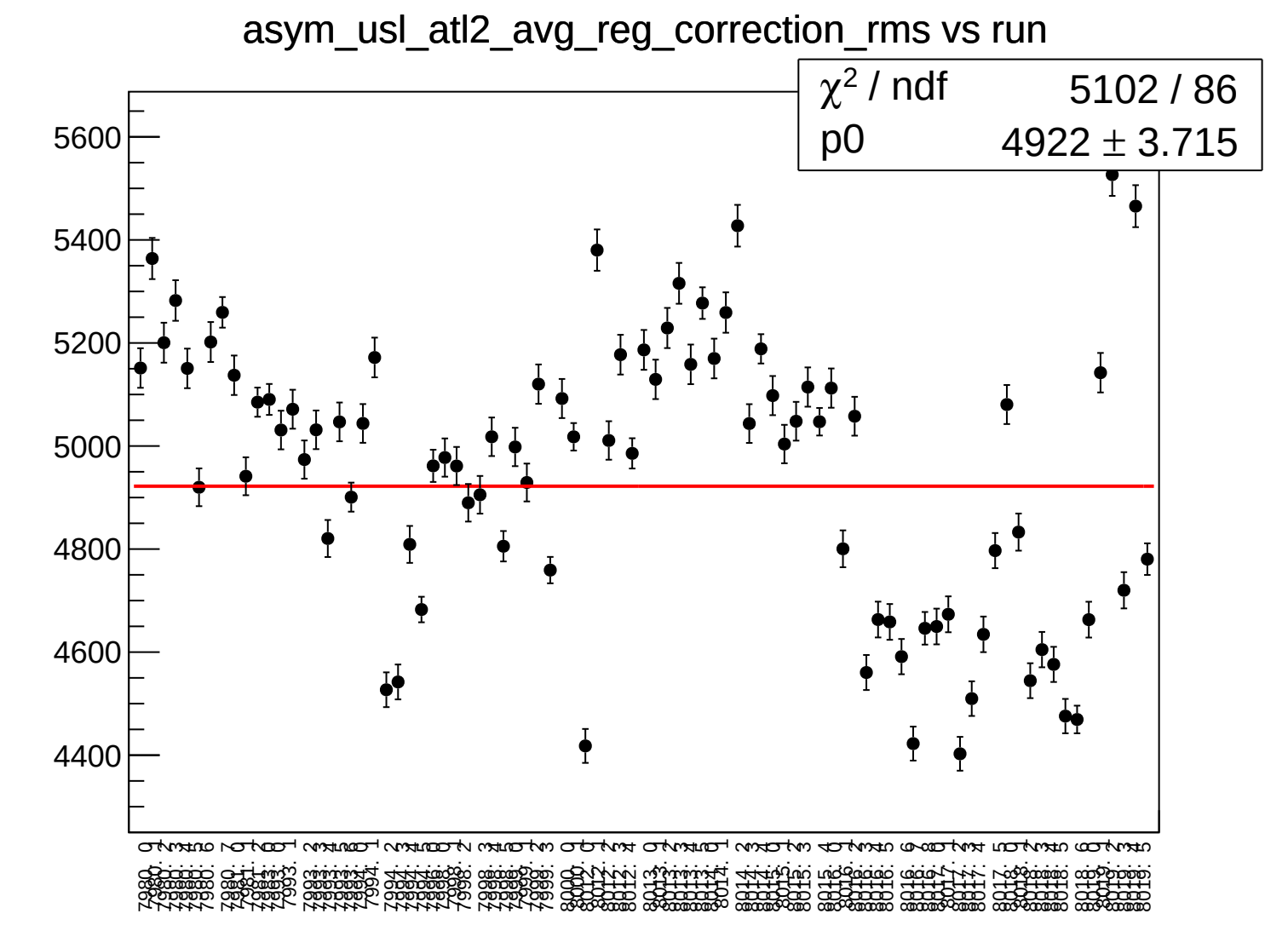

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 99.23 / 86
p0 2964 ± 1524
pull
Entries 87
Mean 192
Std Dev 0

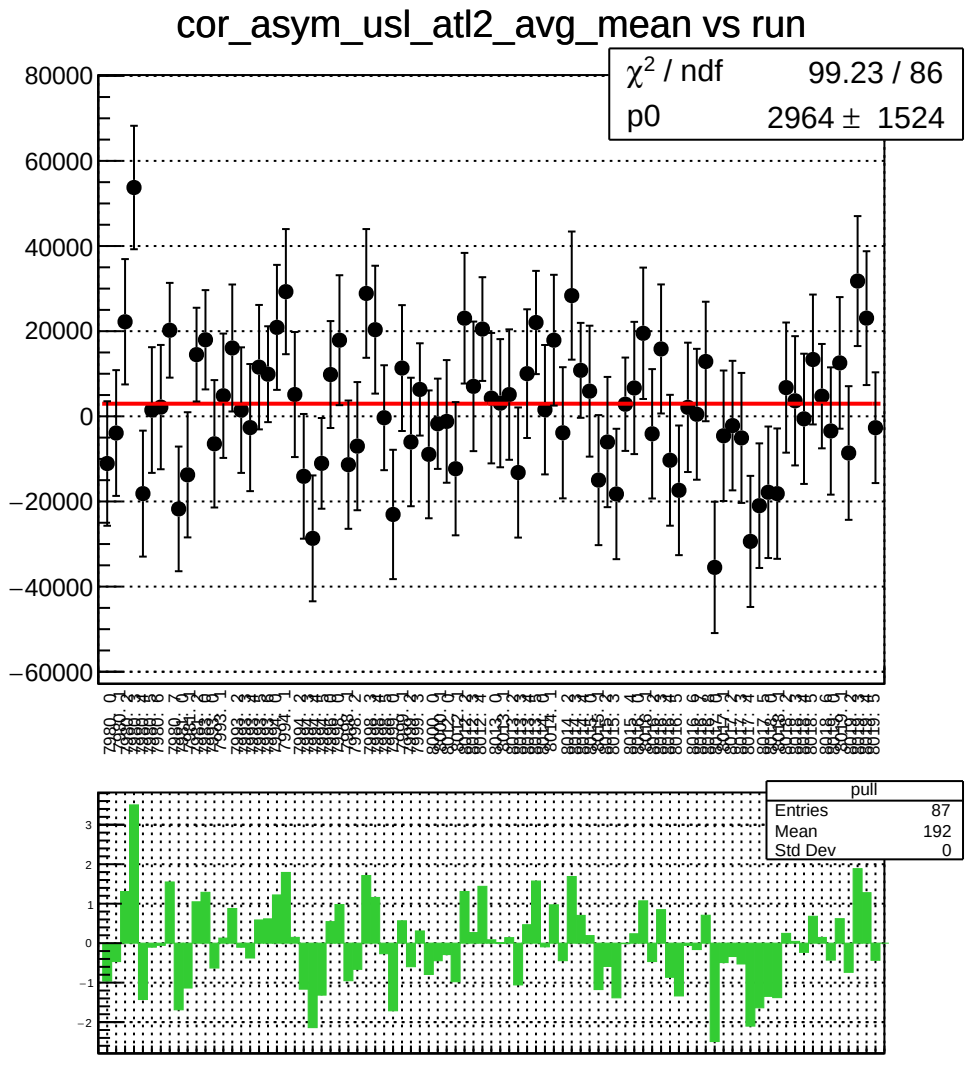

pull1D
Entries 87
Mean −0.02407
Std Dev 1.068

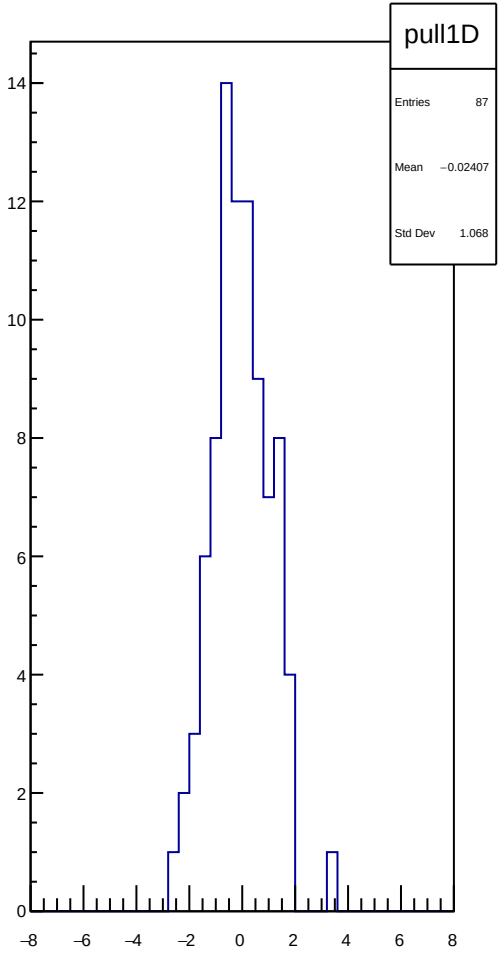

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 709.2 / 86
p0 1430 ± 1.078
1500
1480
1460
1440
1420
1400
1380
1360

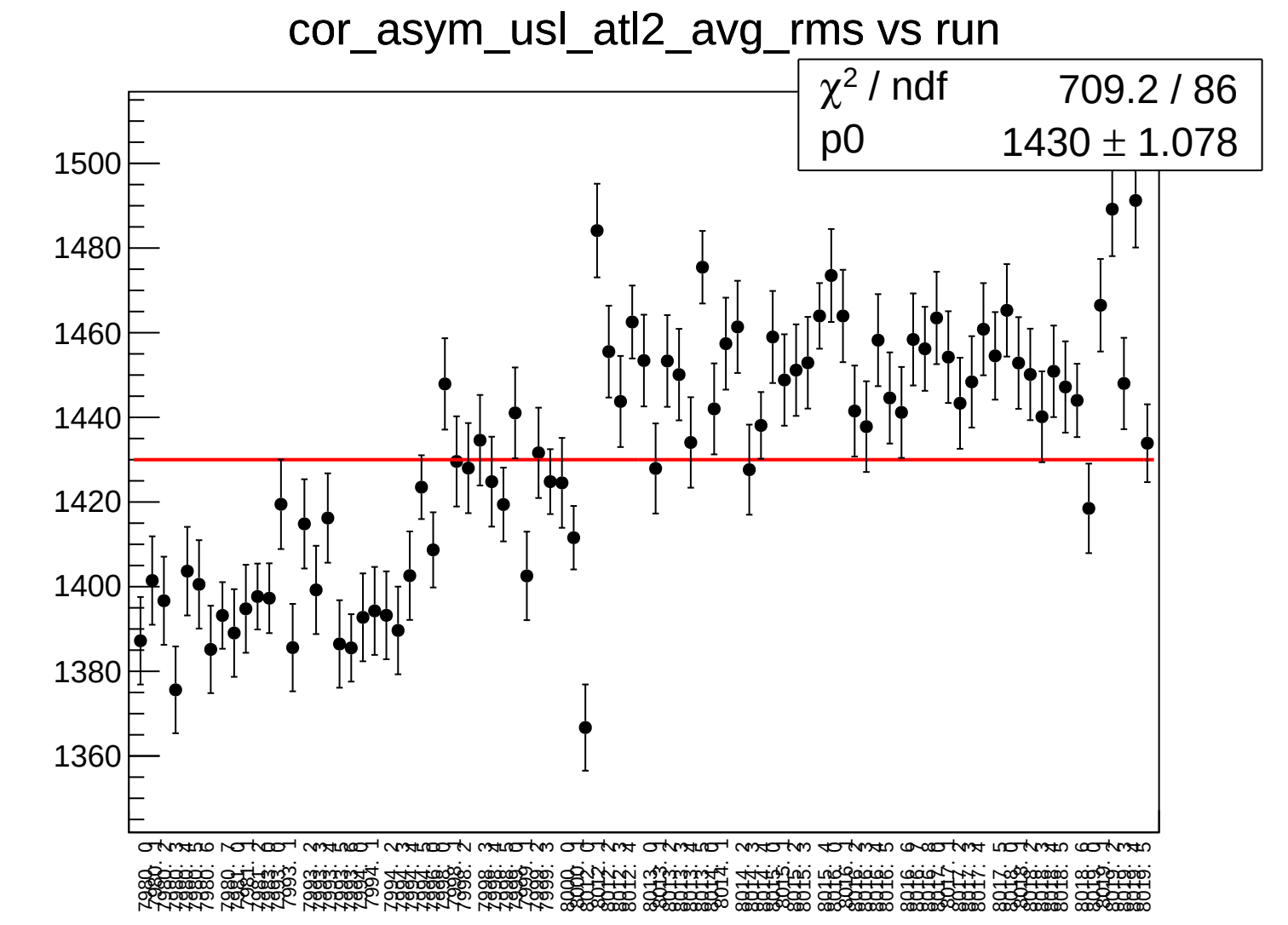

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.21 / 86
p0 −1.13e+04 ± 5253
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 87
Mean 76.24
Std Dev 67.54
2
1
0
−1
−2
−3

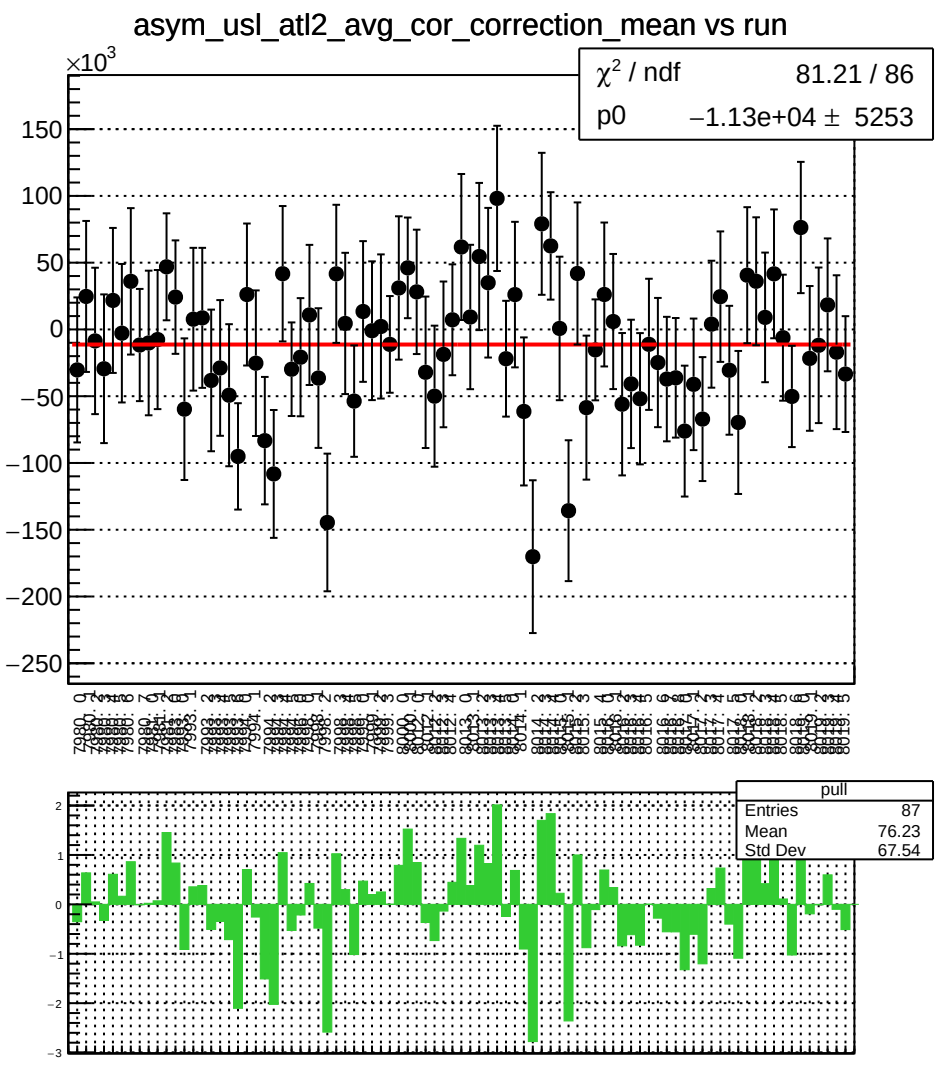

pull1D
Entries 87
Mean 0.003012
Std Dev 0.9662
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

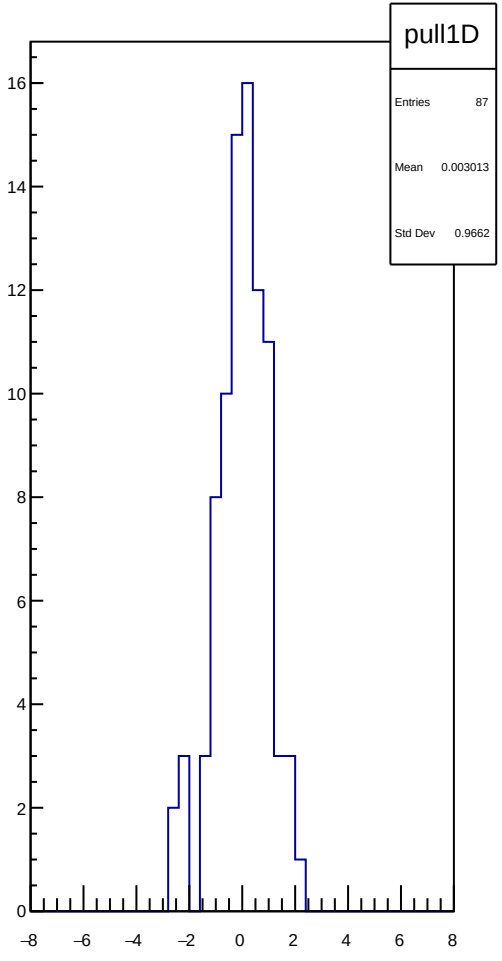

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 5102 / 86
p0 4922 ± 3.715
5600
5400
5200
5000
4800
4600
4400

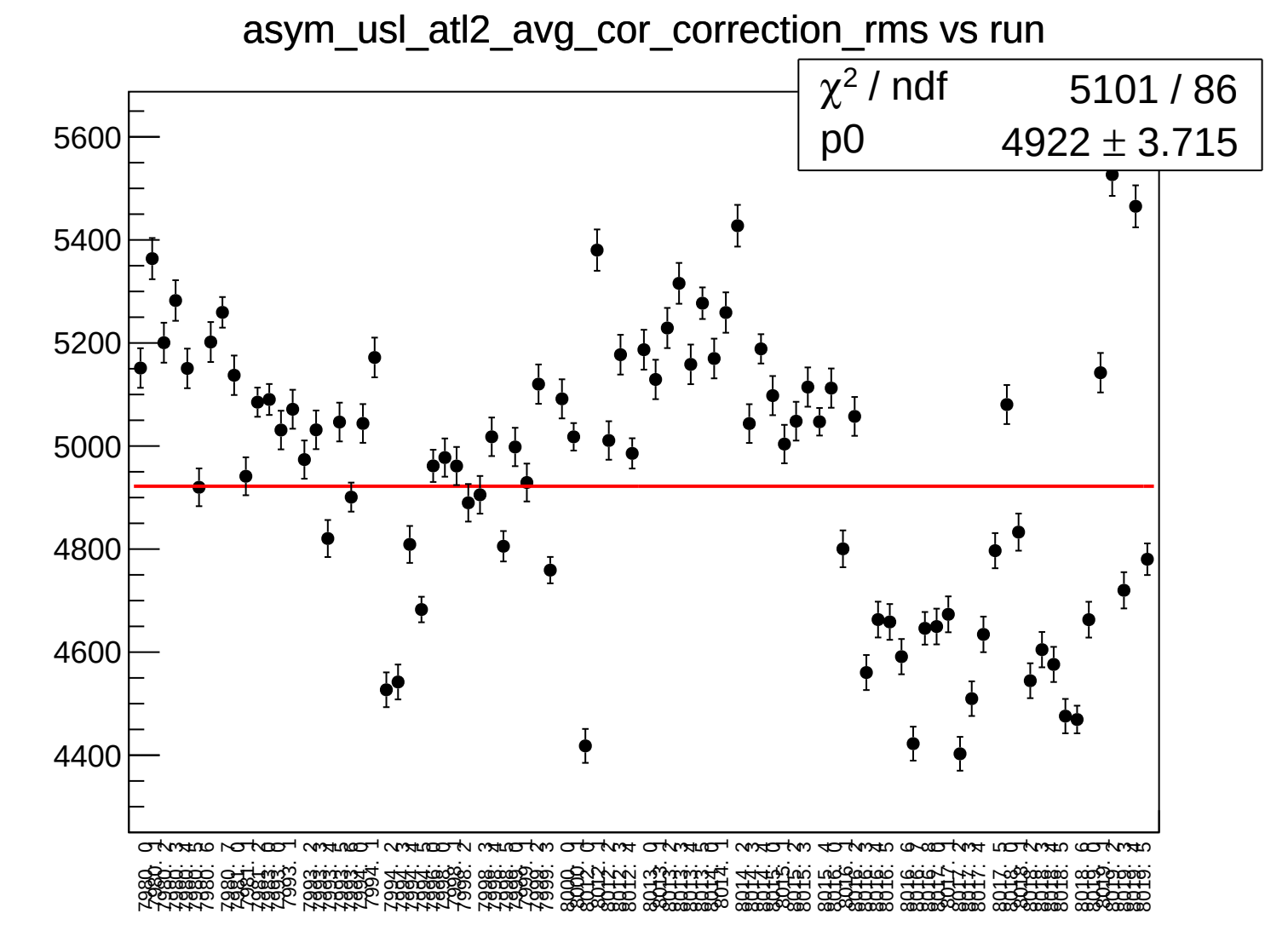

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 99.23 / 86
p0 2964 ± 1524
pull
Entries 87
Mean 192
Std Dev 0

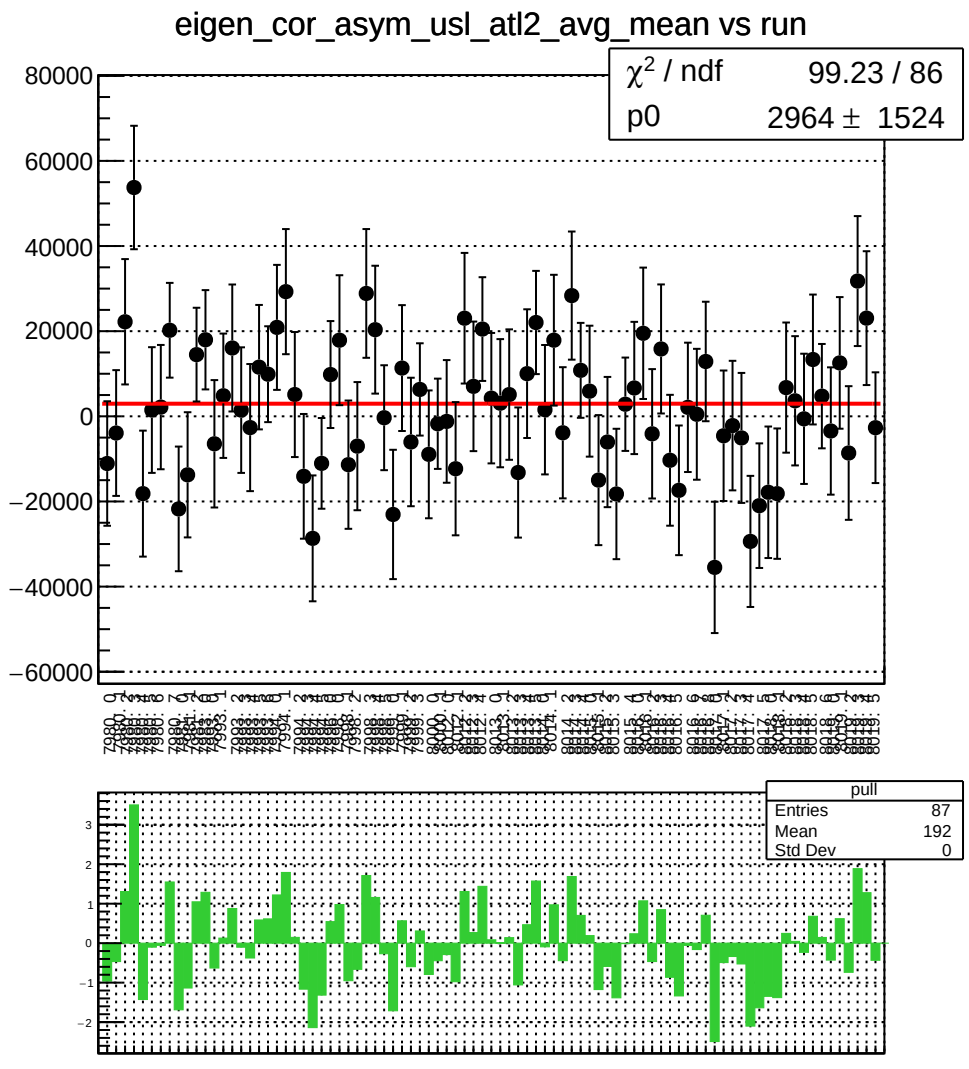

pull1D
Entries 87
Mean −0.02407
Std Dev 1.068

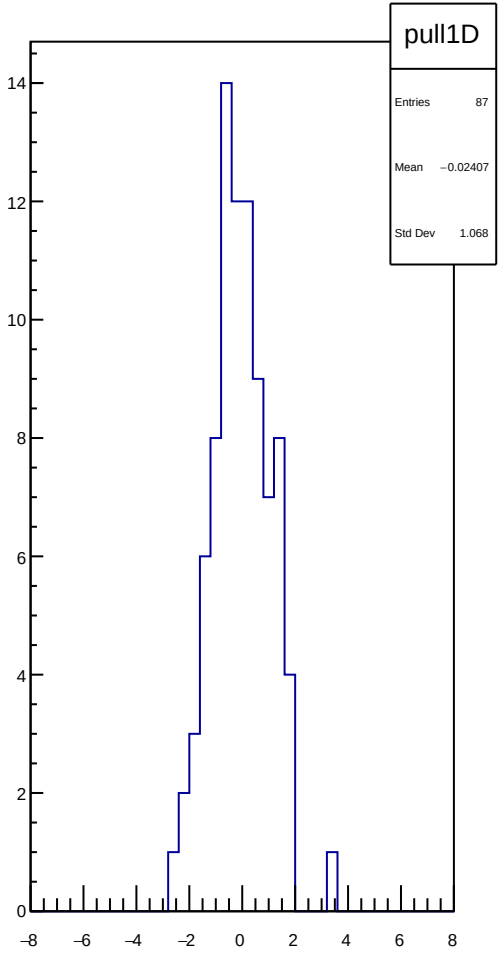

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 709.2 / 86
p0 1430 ± 1.078
1500
1480
1460
1440
1420
1400
1380
1360

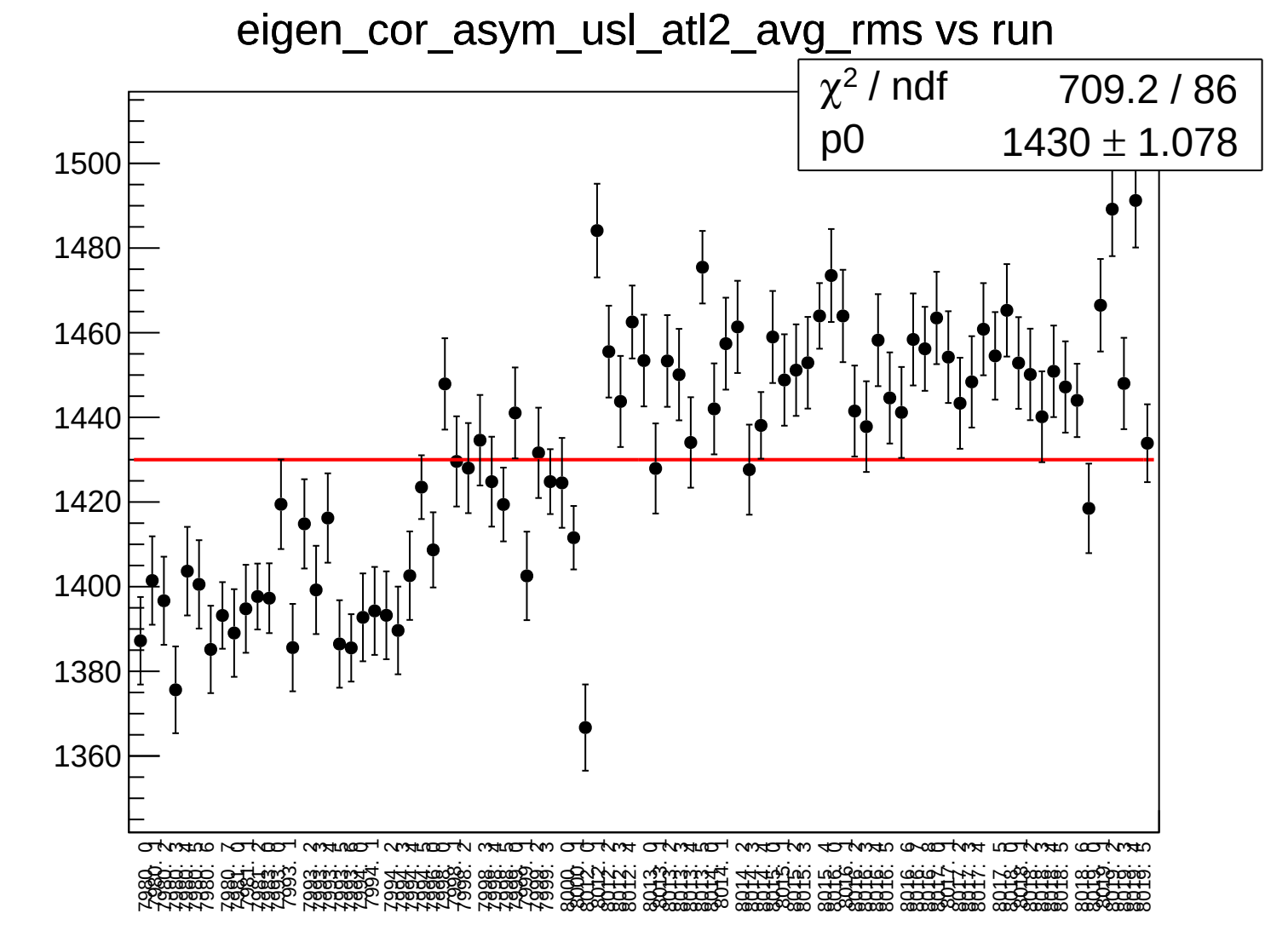

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.21 / 86
p0 −1.13e+04 ± 5253
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 87
Mean 76.23
Std Dev 67.54
2
1
0
−1
−2
−3

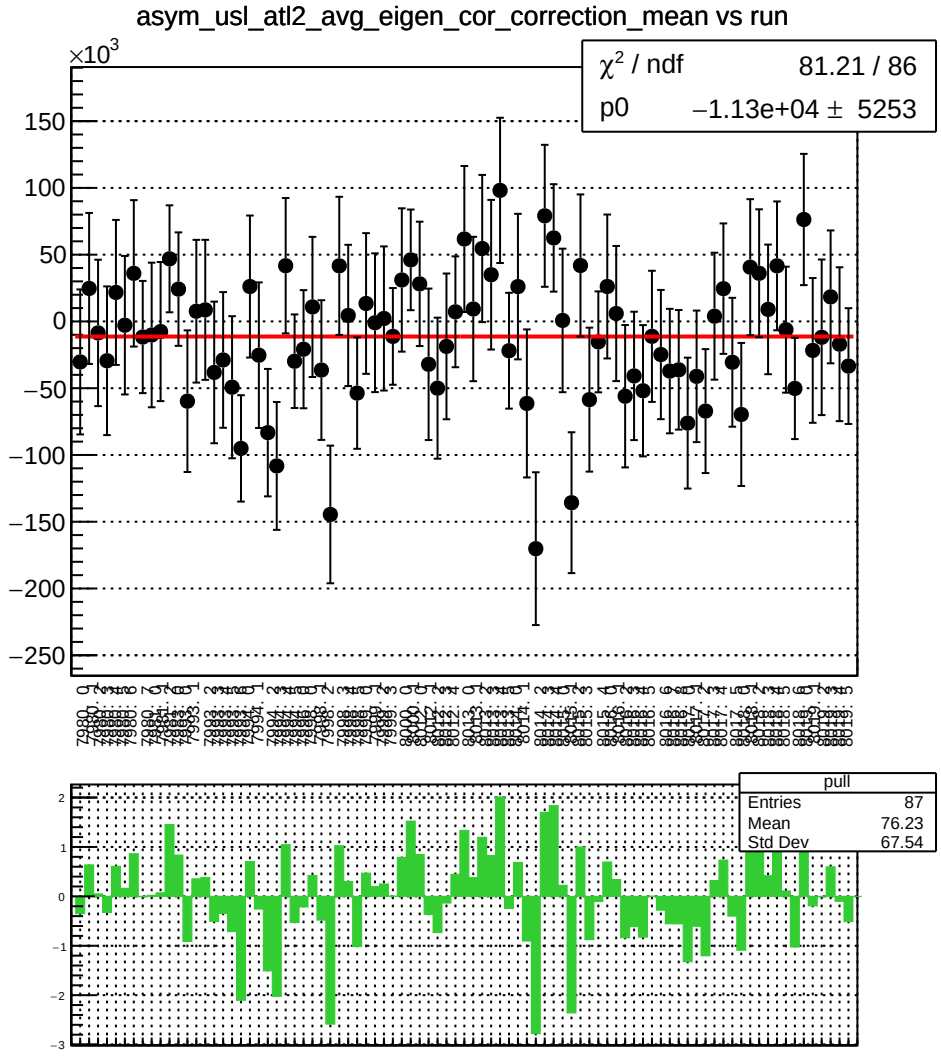

pull1D
Entries 87
Mean 0.003013
Std Dev 0.9662
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

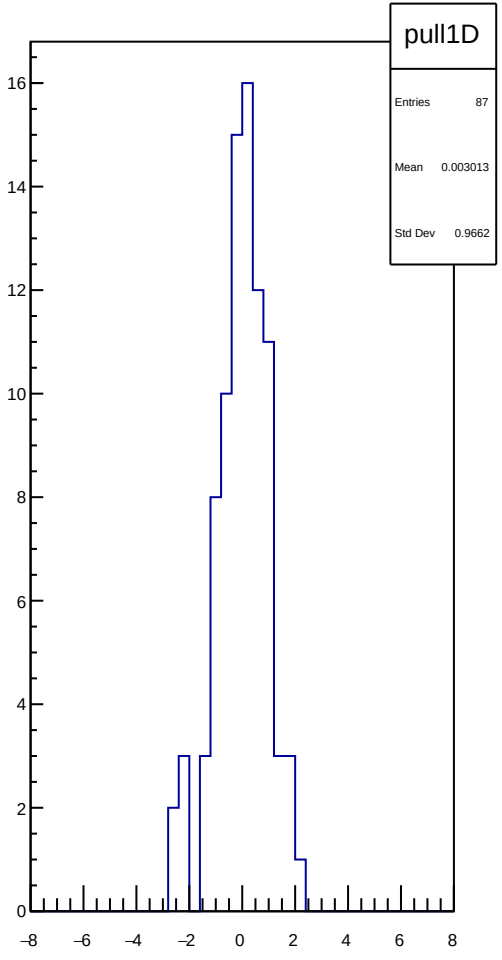

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 5101 / 86
p0 4922 ± 3.715
5600
5400
5200
5000
4800
4600
4400

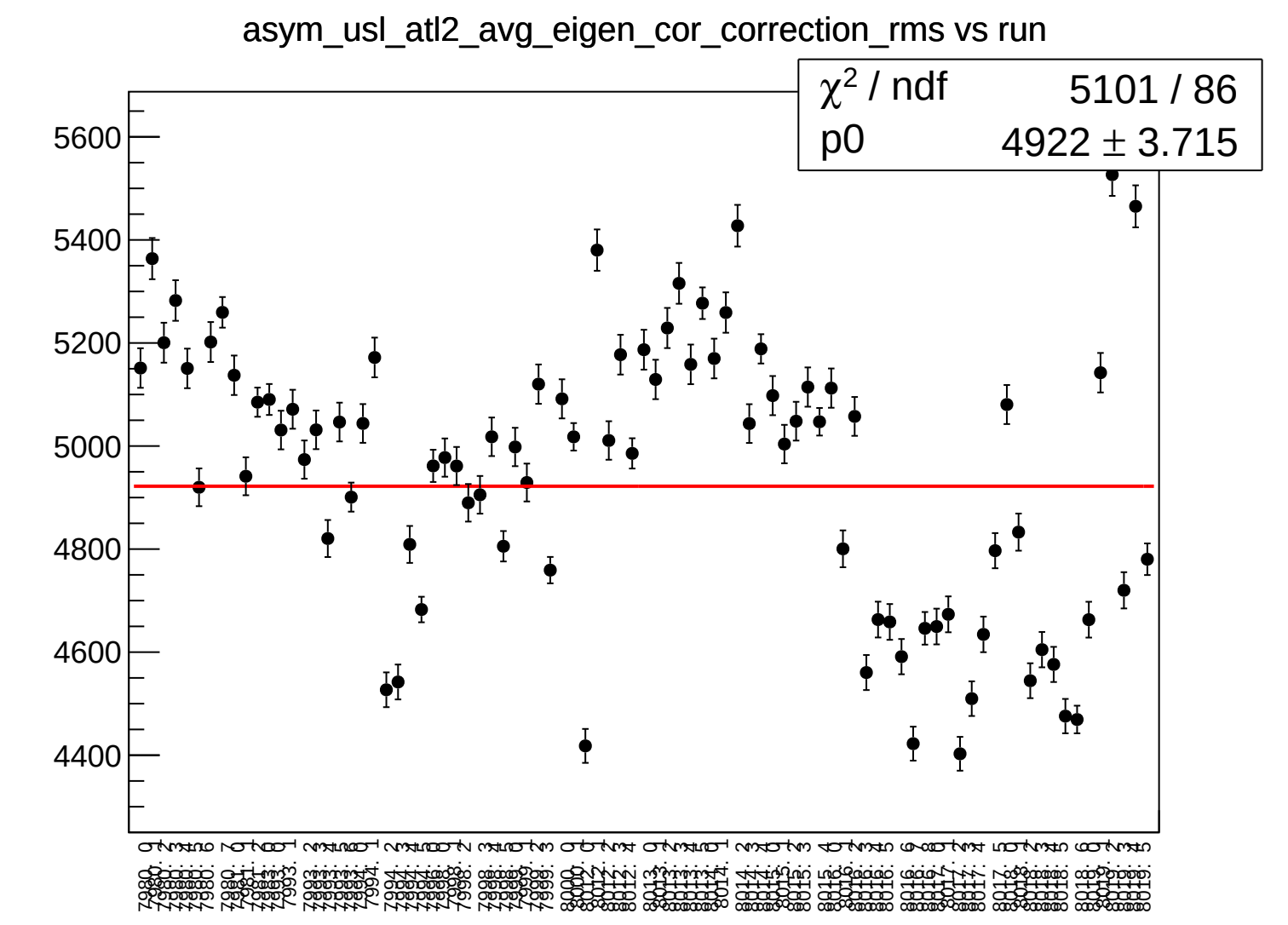

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 99.23 / 86
p0 2964 ± 1524
pull
Entries 87
Mean 192
Std Dev 0

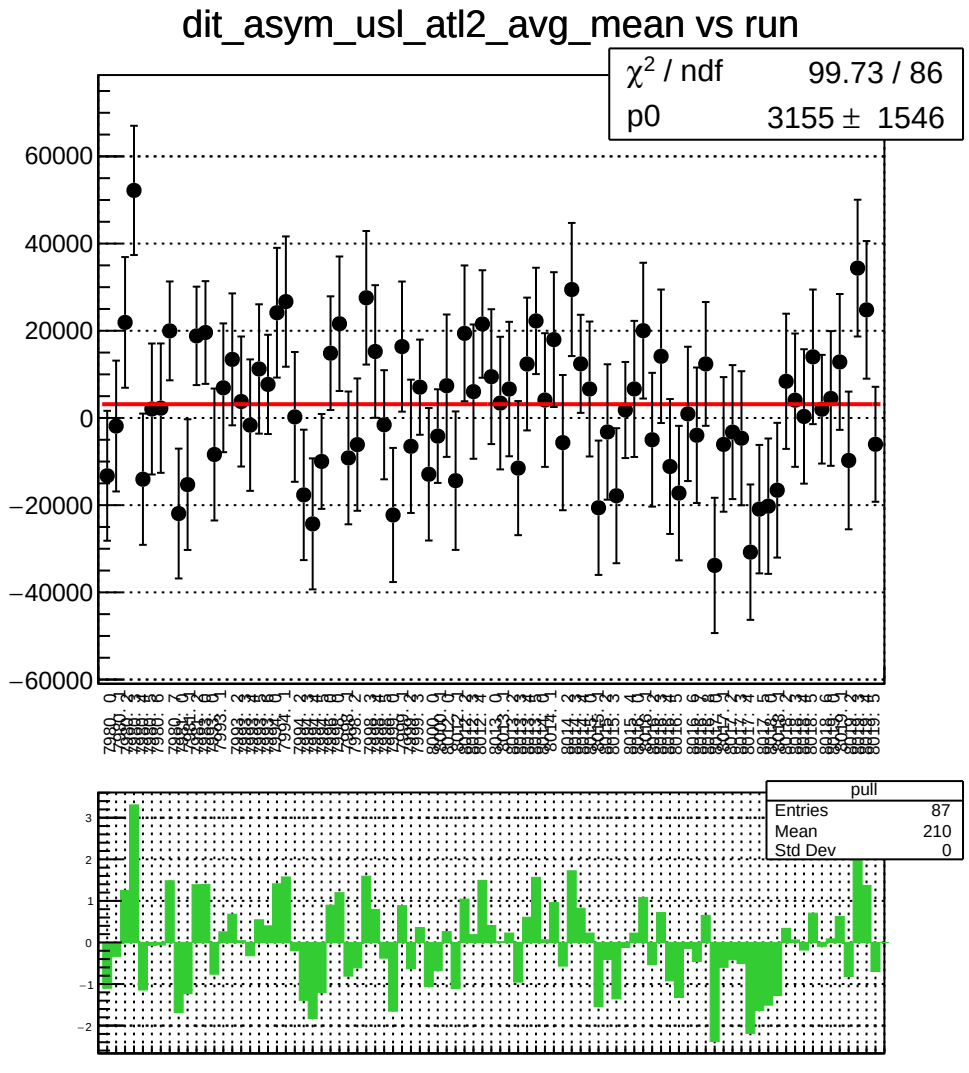

pull1D
Entries 87
Mean −0.02407
Std Dev 1.068

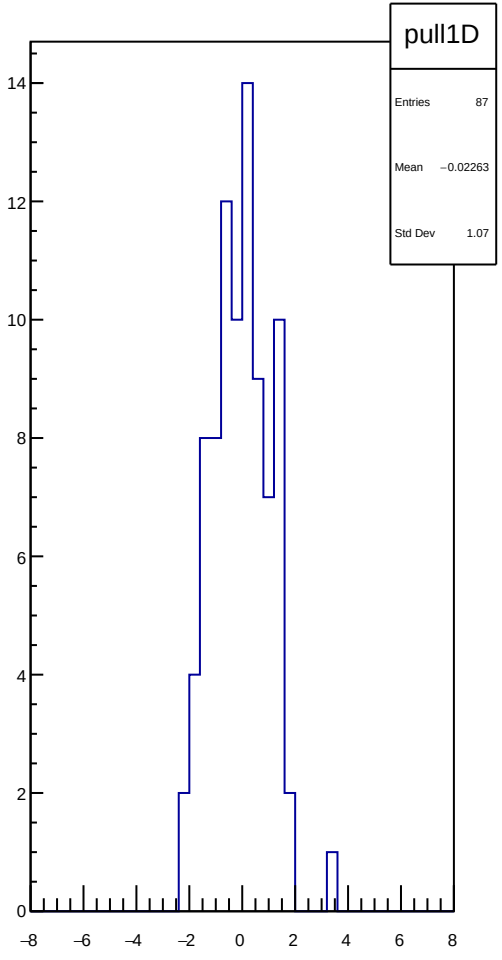

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 709.2 / 86
p0 1430 ± 1.078
1500
1480
1460
1440
1420
1400
1380
1360

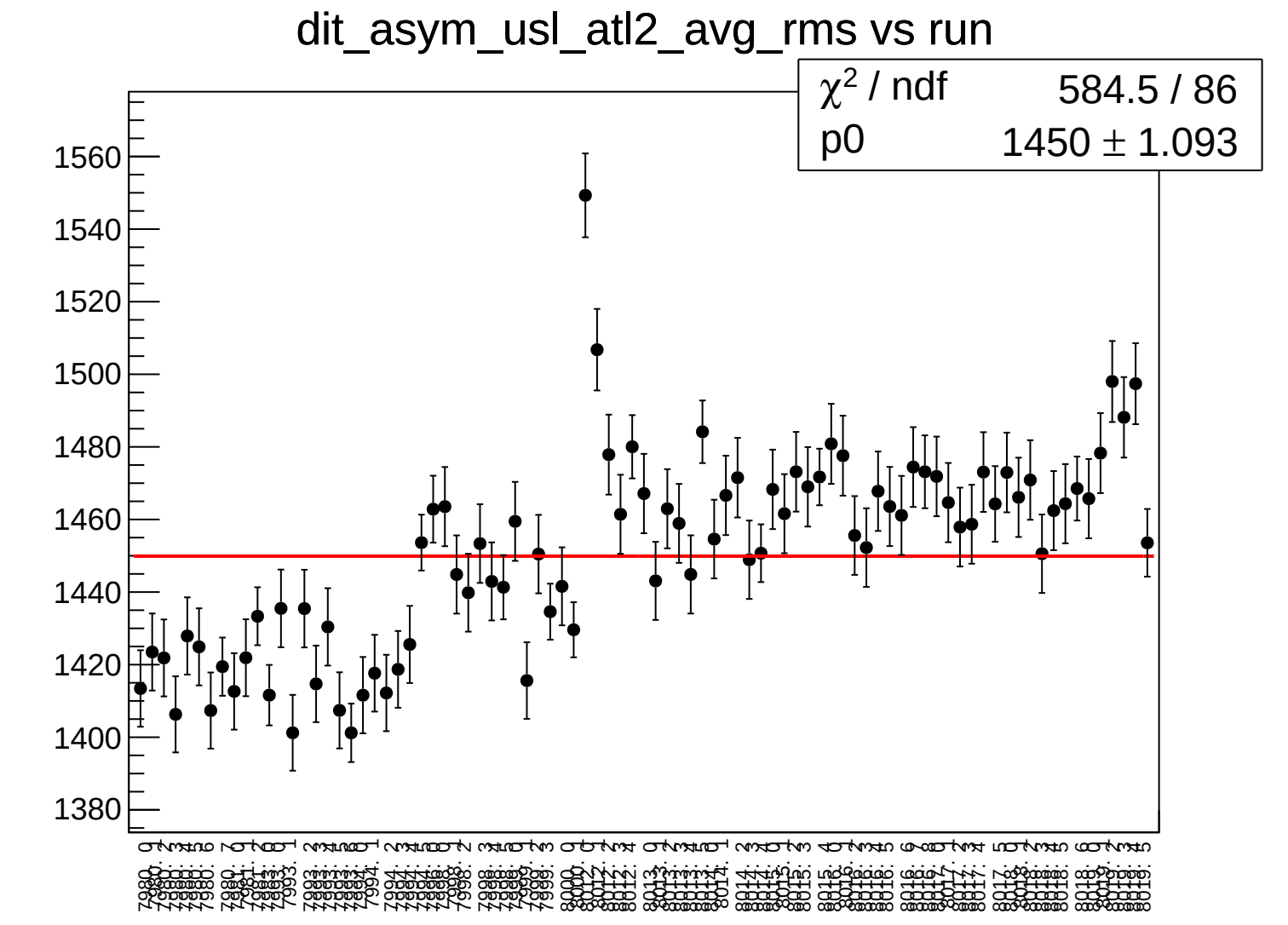

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.21 / 86
p0 −1.13e+04 ± 5253
×10³
pull
Entries 87
Mean 76.23
Std Dev 67.54

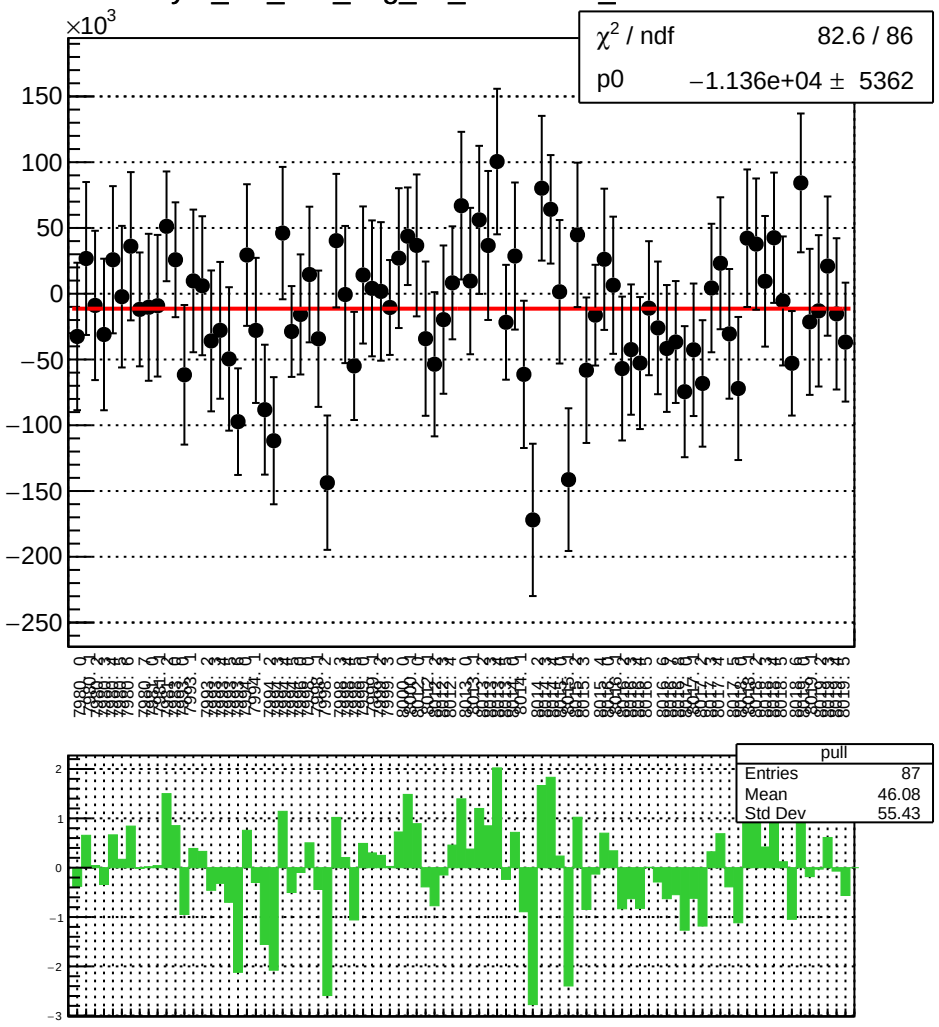

pull1D
Entries 87
Mean 0.003013
Std Dev 0.9662

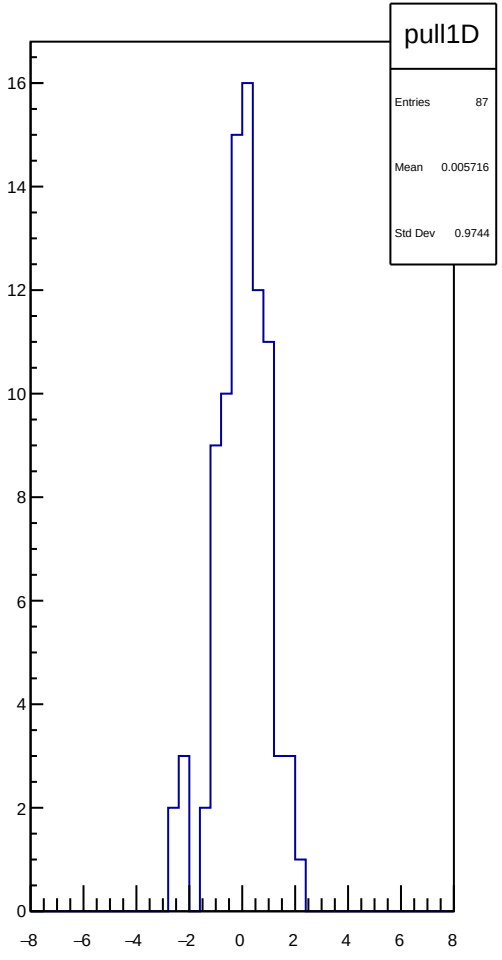

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5101 / 86
p0 4922 ± 3.715
5600
5400
5200
5000
4800
4600
4400

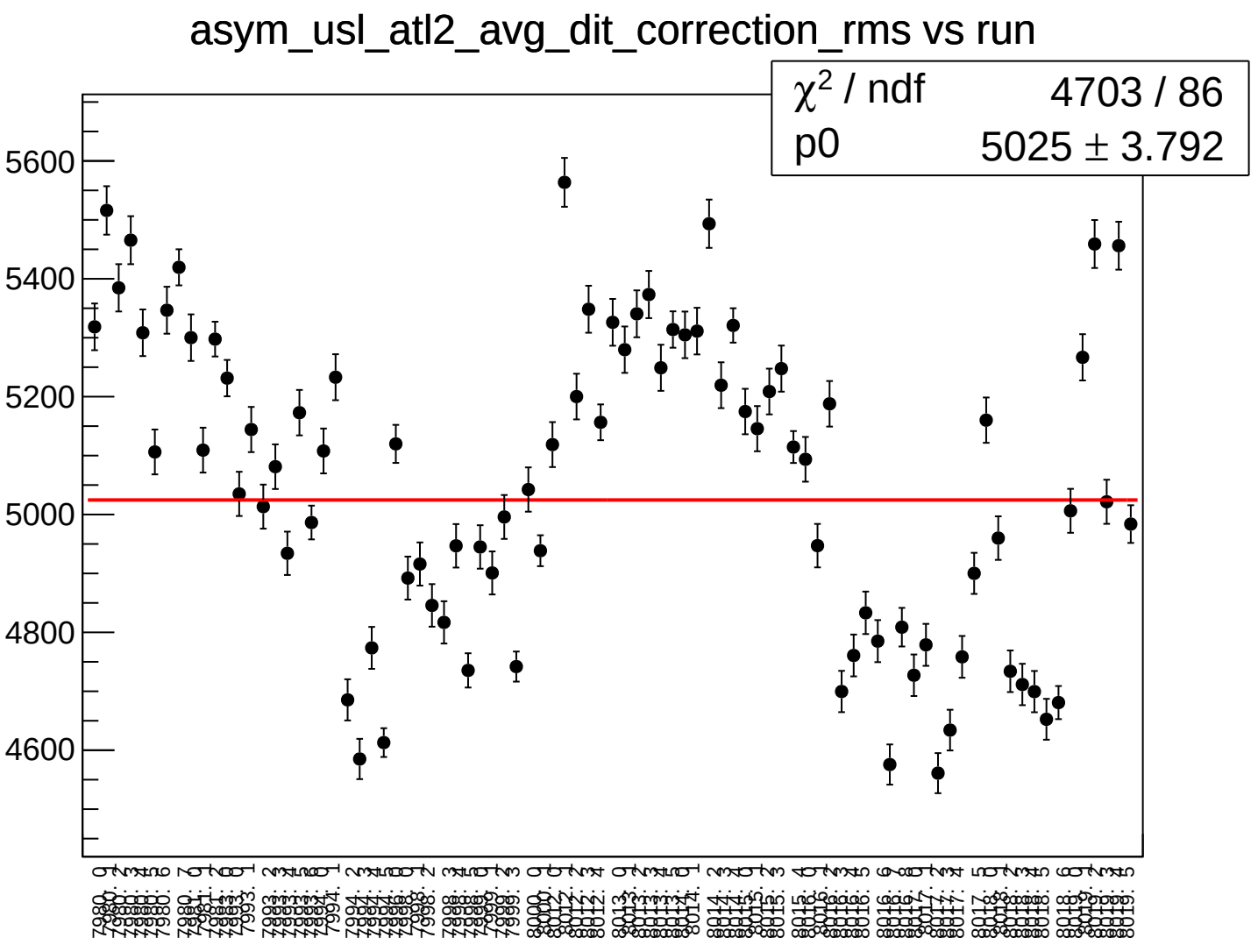

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 99.73 / 86
p0 3155 ± 1546
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 210
Std Dev 0
3
2
1
0
−1
−2

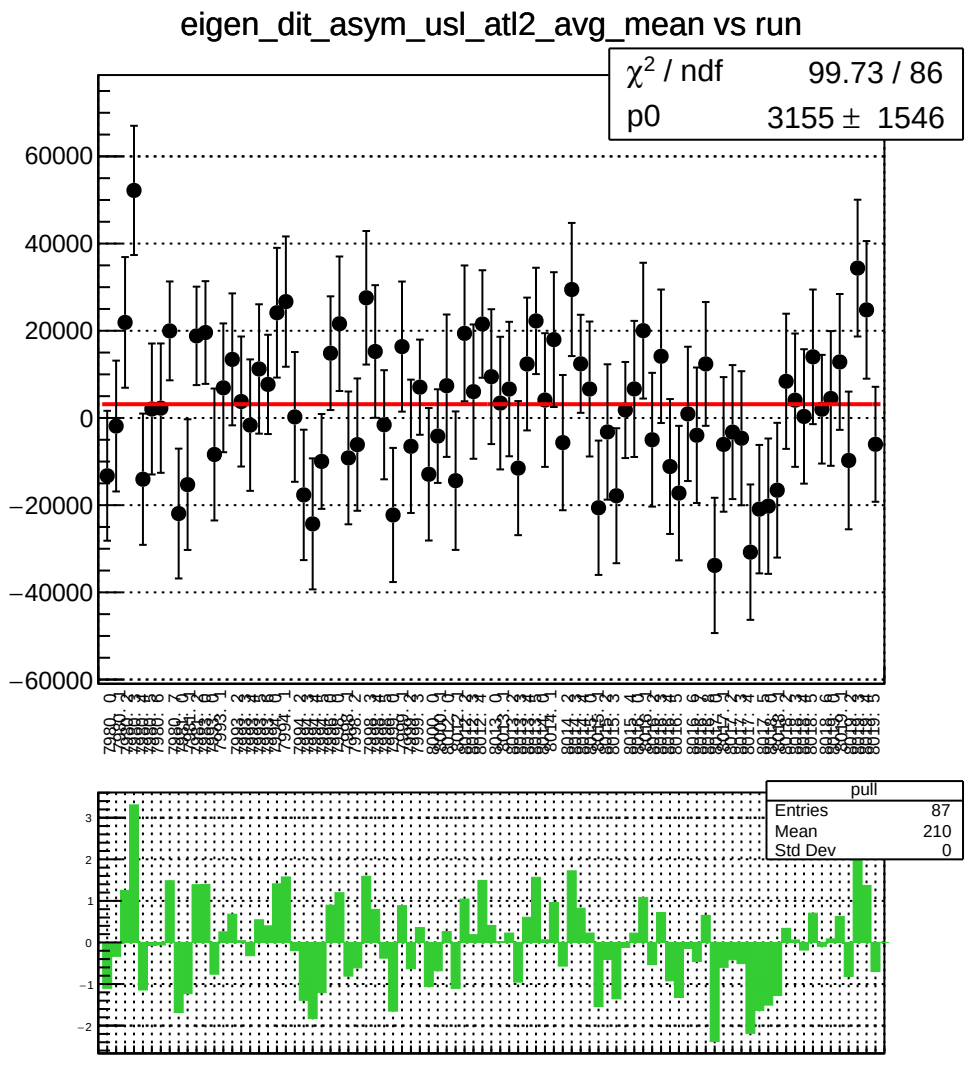

pull1D
Entries 87
Mean −0.02263
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

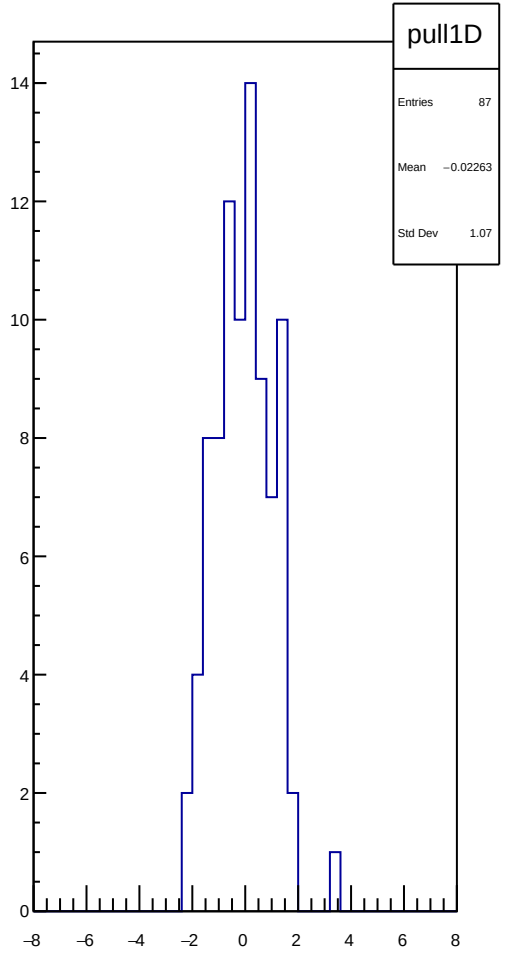

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 584.5 / 86
p0 1450 ± 1.093
1560
1540
1520
1500
1480
1460
1440
1420
1400
1380

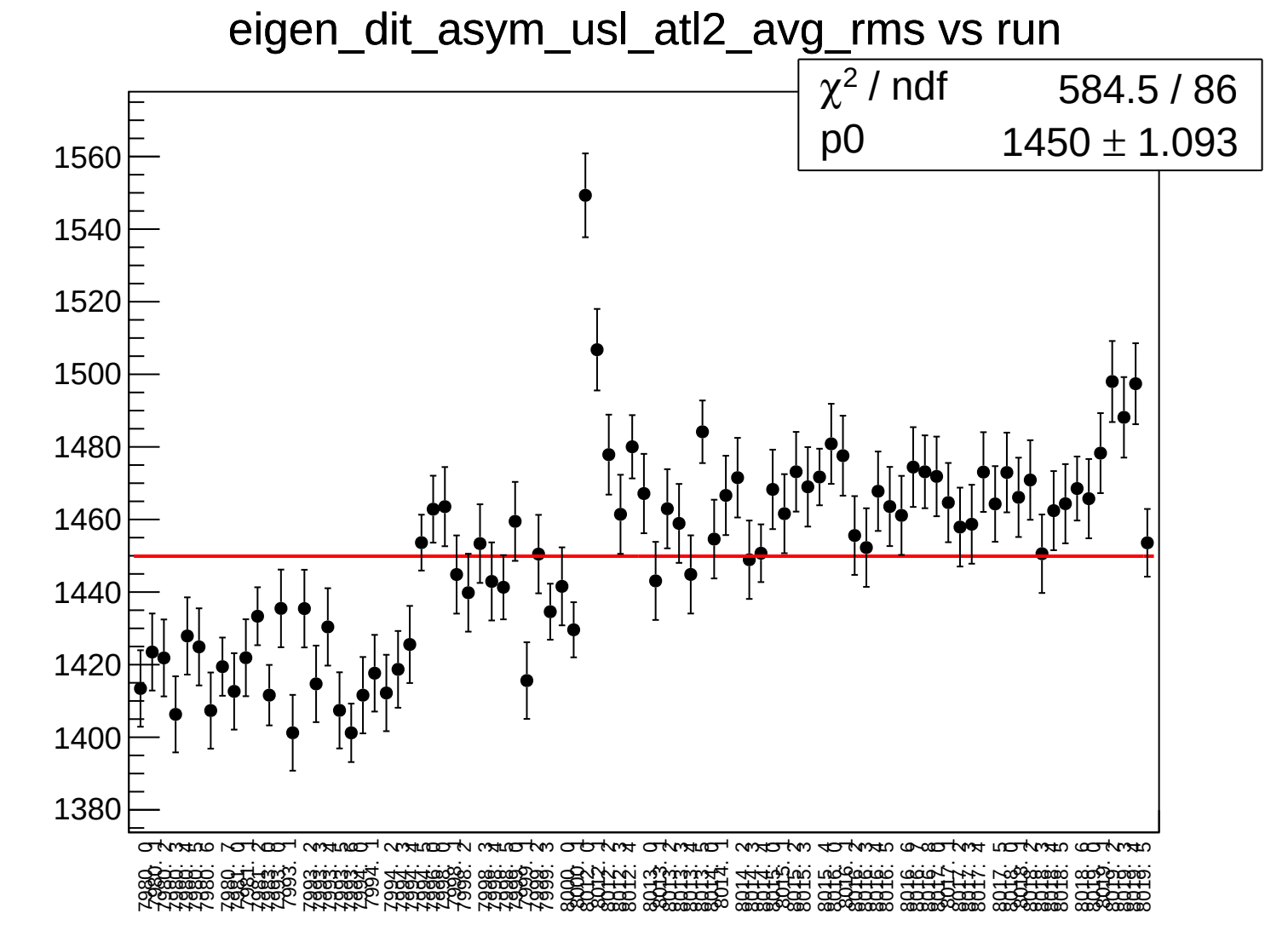

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.6 / 86
p0 −1.136e+04 ± 5362
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 87
Mean 46.08
Std Dev 55.43
2
1
0
−1
−2
−3

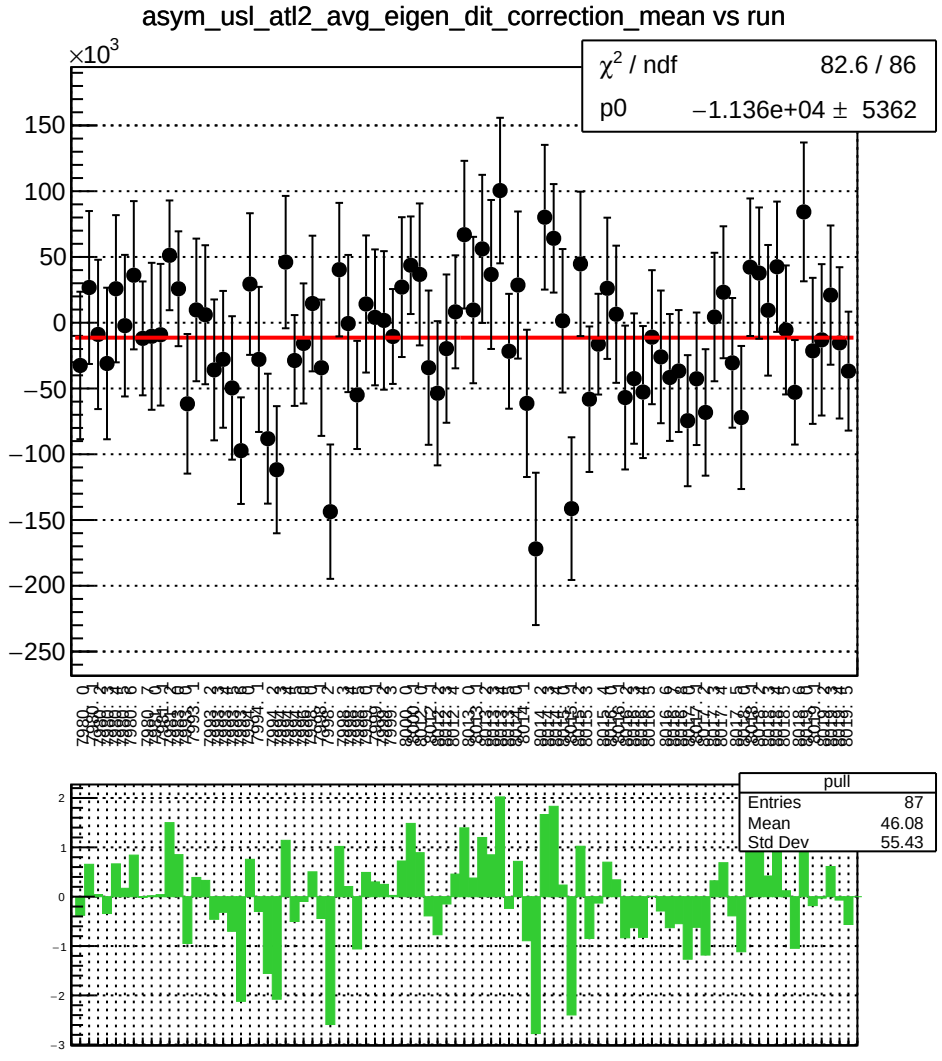

pull1D
Entries 87
Mean 0.005716
Std Dev 0.9744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

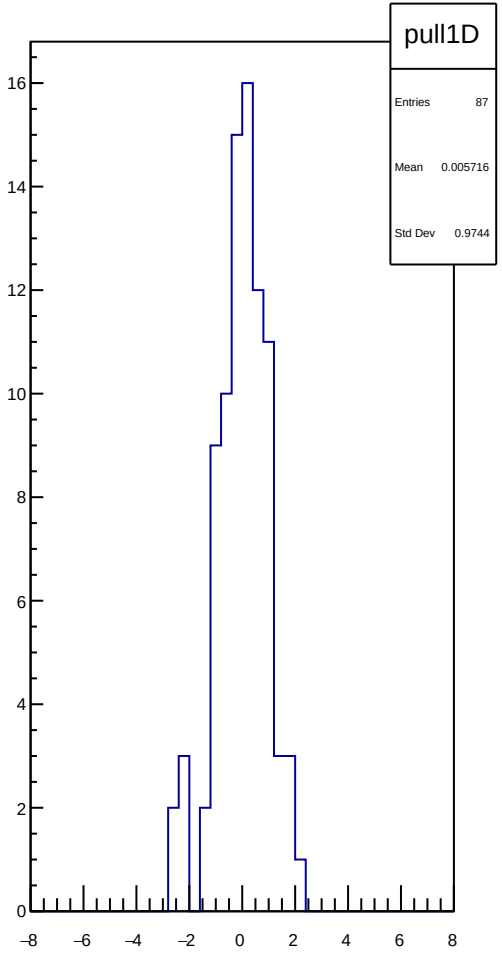

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 4703 / 86
p0 5025 ± 3.792
5600
5400
5200
5000
4800
4600

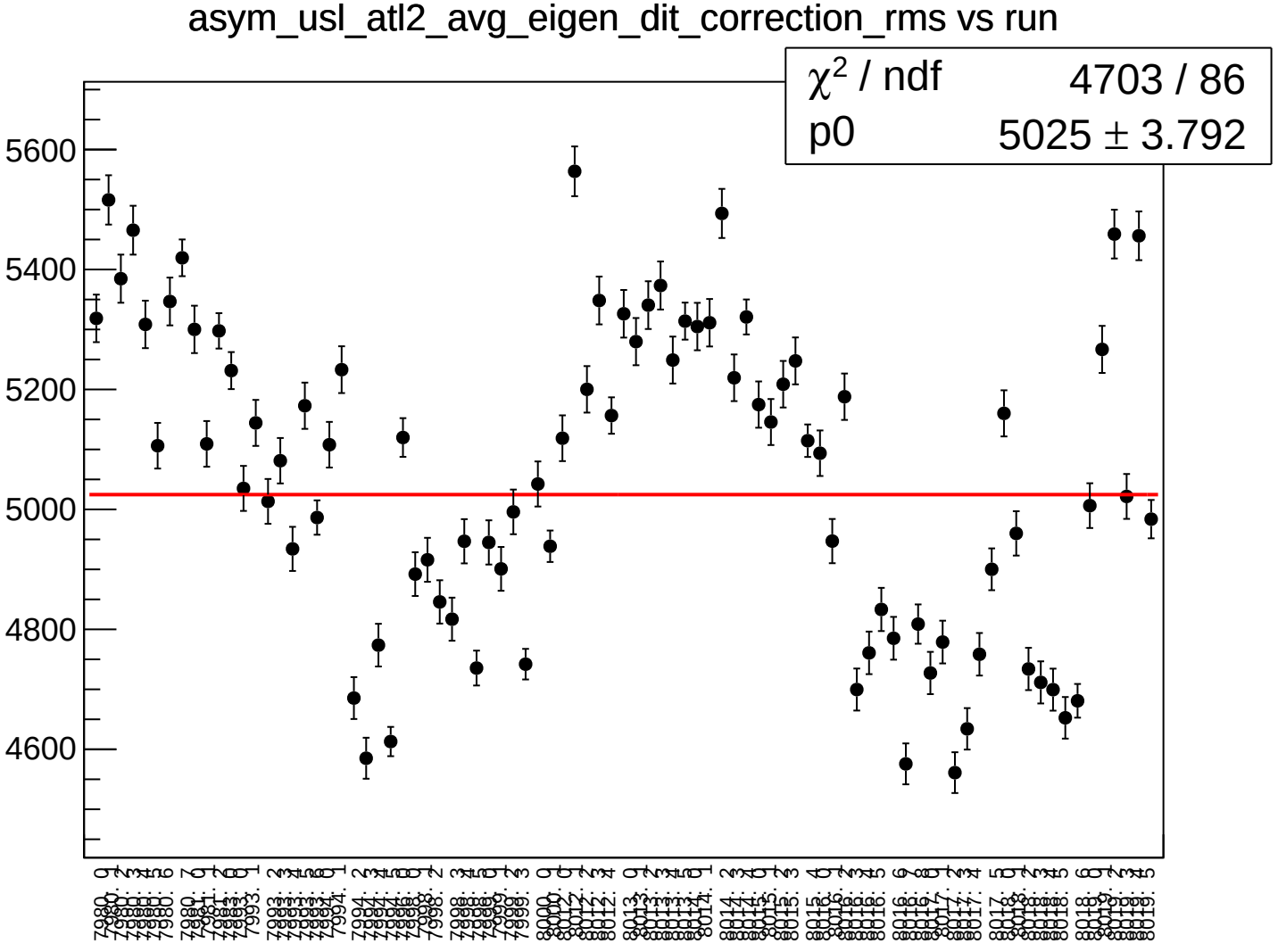

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 99.73 / 86
p0 3155 ± 1546
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 210
Std Dev 0
3
2
1
0
−1
−2

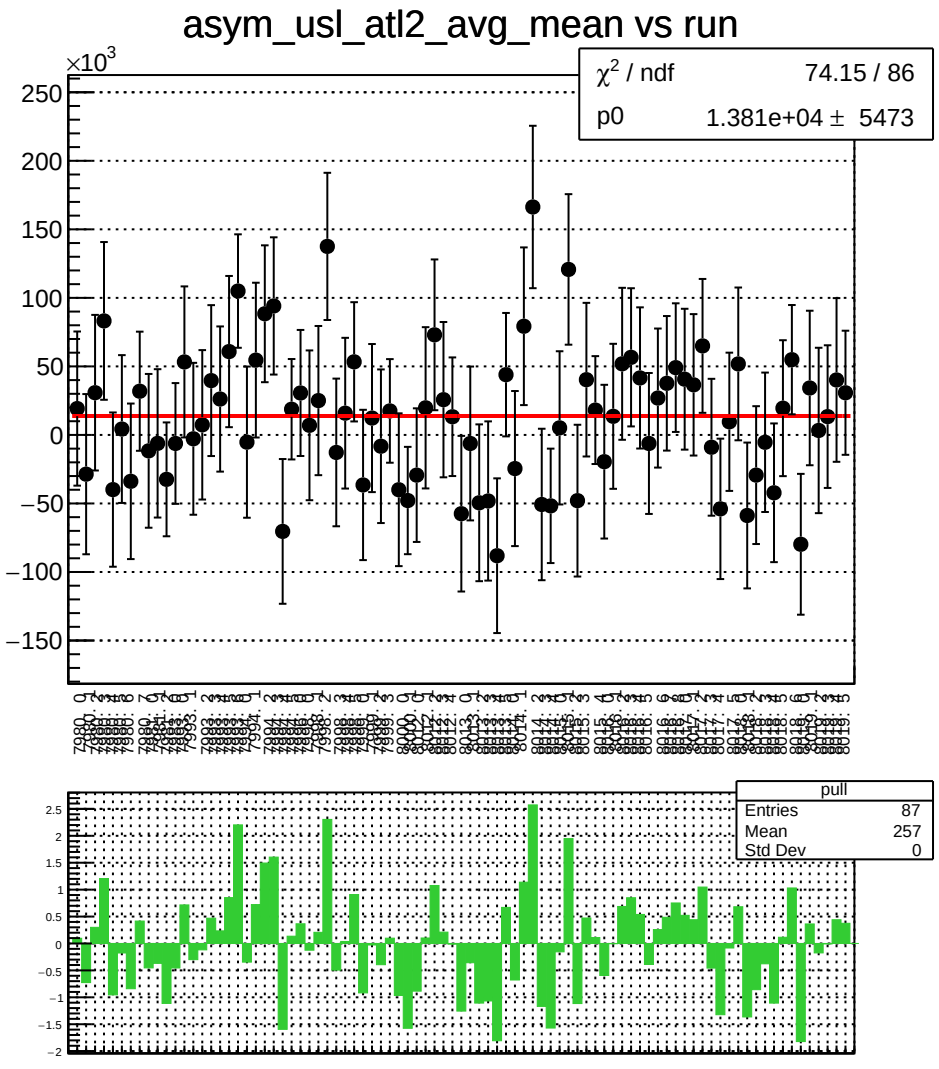

pull1D
Entries 87
Mean −0.02263
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

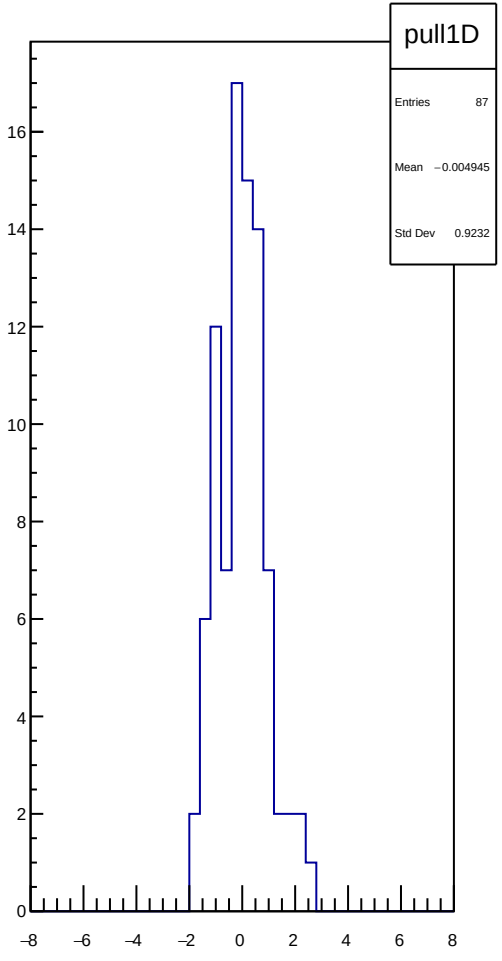

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 584.5 / 86
p0 1450 ± 1.093
1560
1540
1520
1500
1480
1460
1440
1420
1400
1380

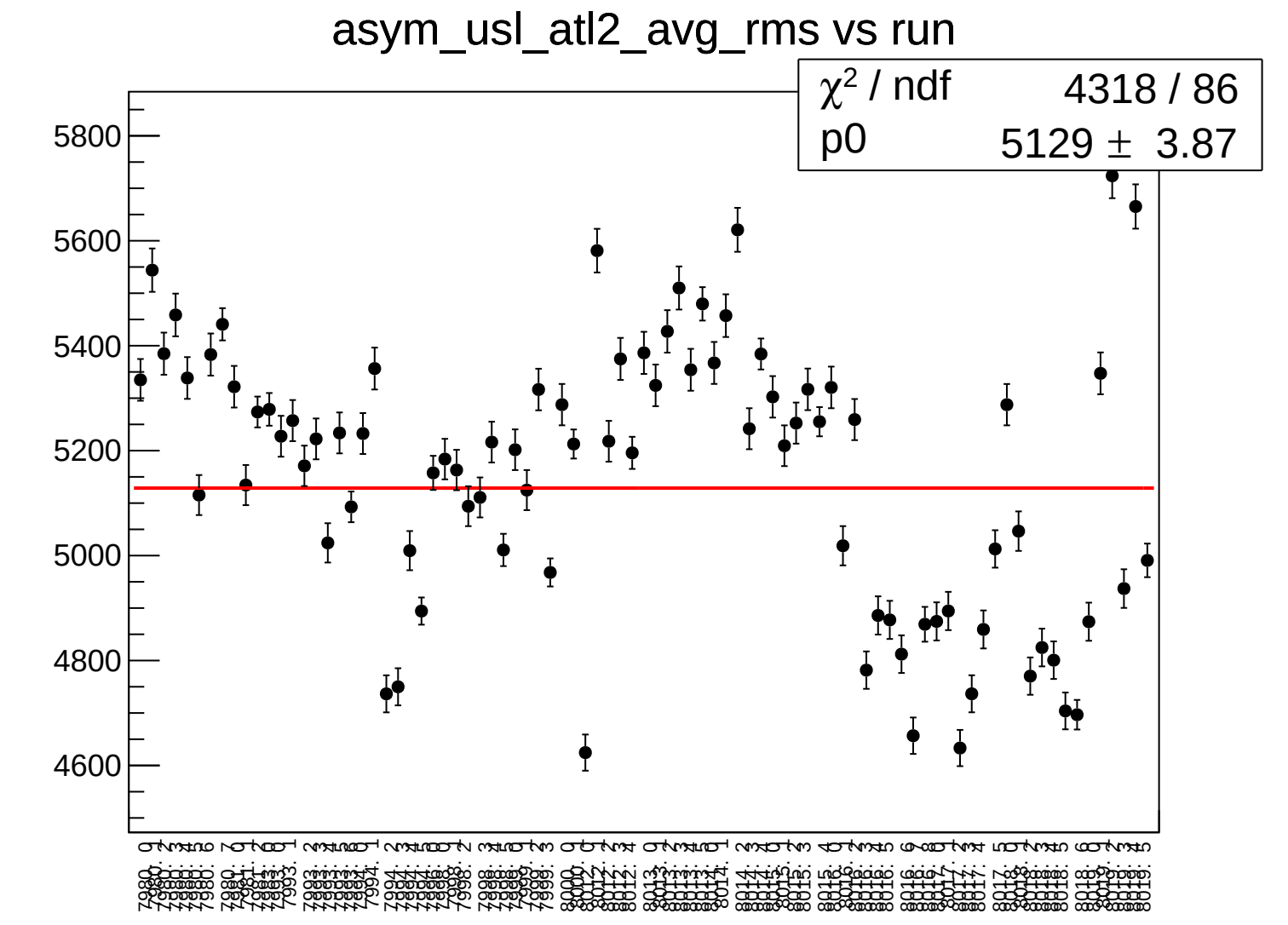

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.6 / 86
p0 −1.136e+04 ± 5362
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 87
Mean 46.08
Std Dev 55.43
2
1
0
−1
−2
−3

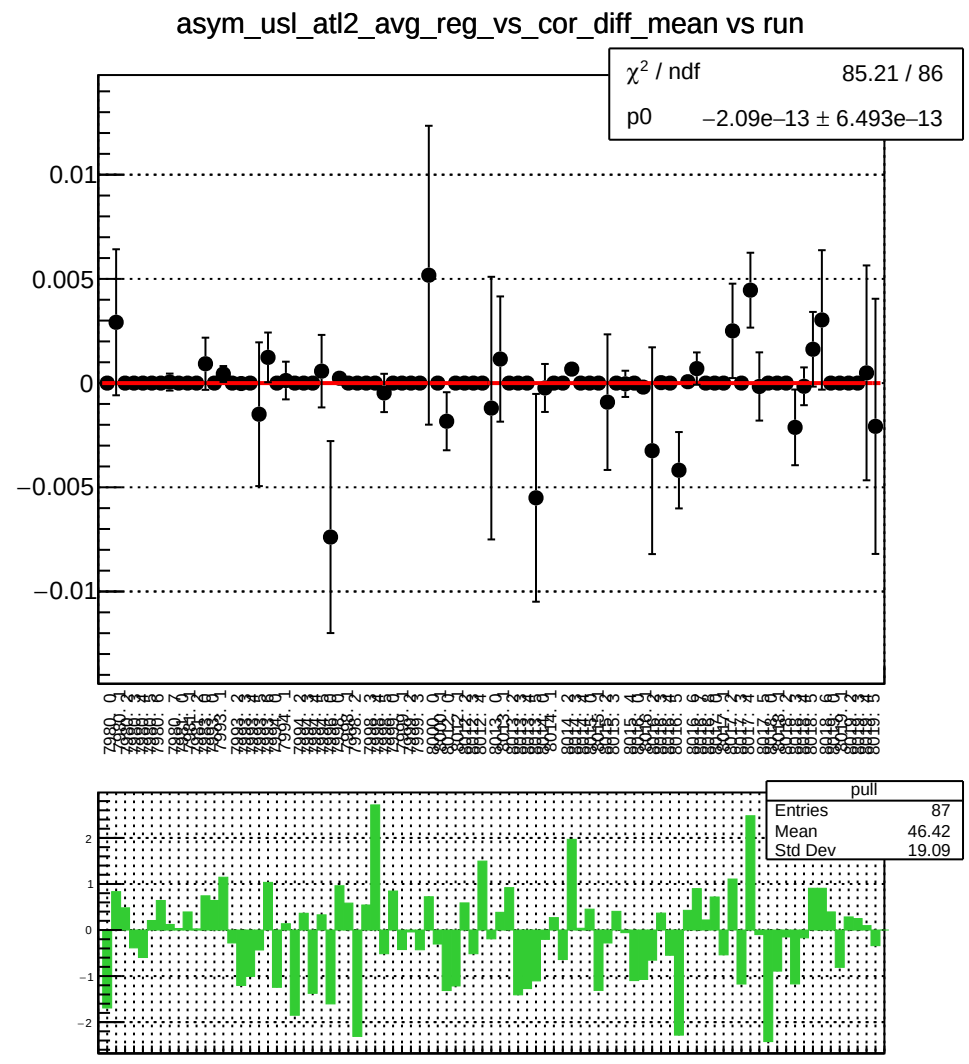

pull1D
Entries 87
Mean 0.005716
Std Dev 0.9744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

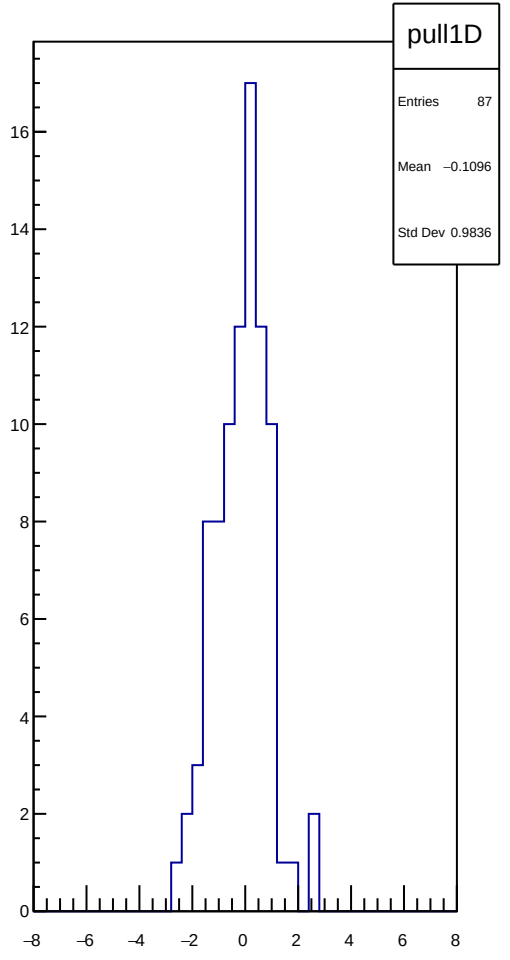

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4703 / 86
p0 5025 ± 3.792
5600
5400
5200
5000
4800
4600

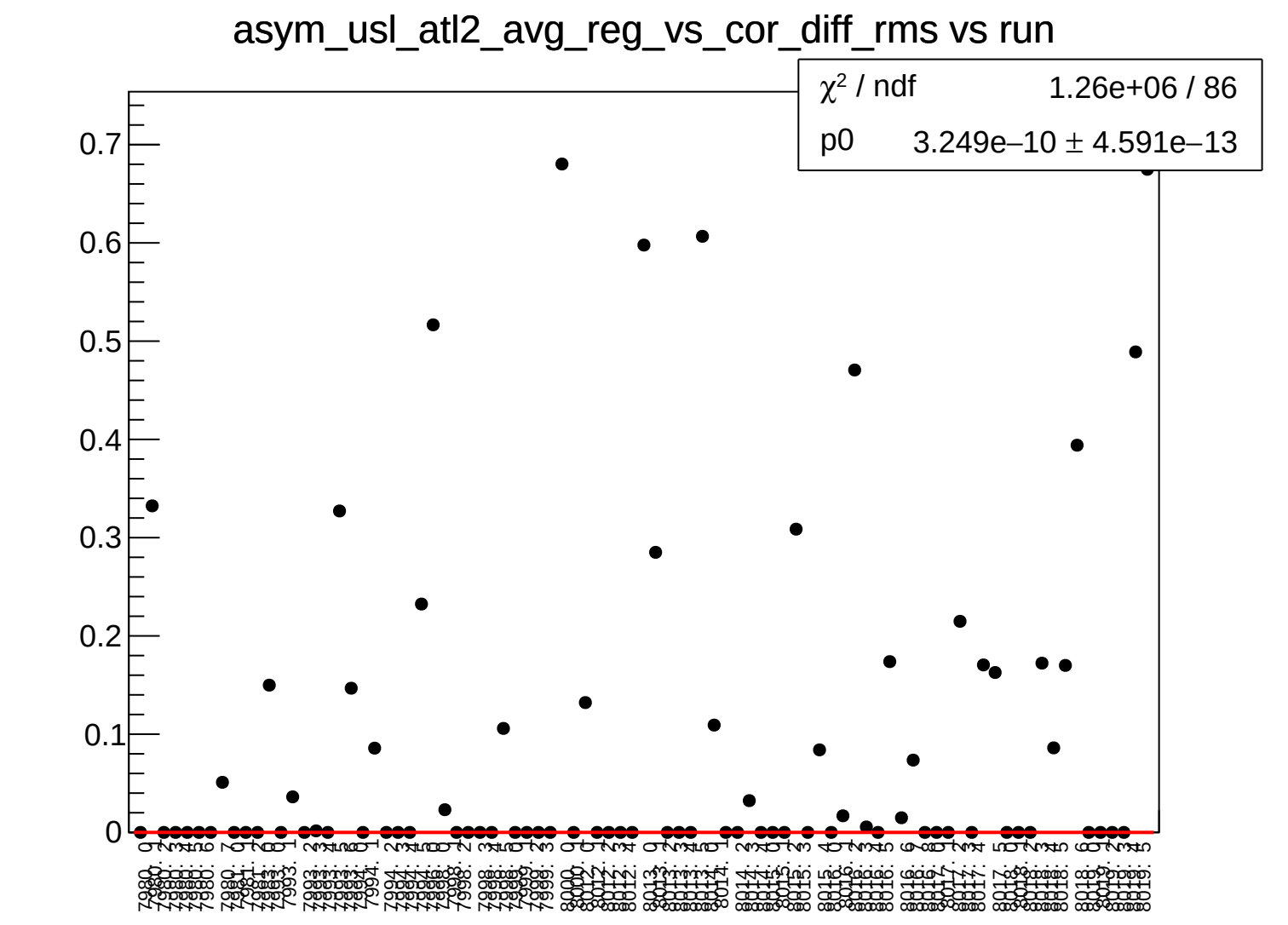

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 74.15 / 86
p0 1.381e+04 ± 5473
pull
Entries 87
Mean 257
Std Dev 0

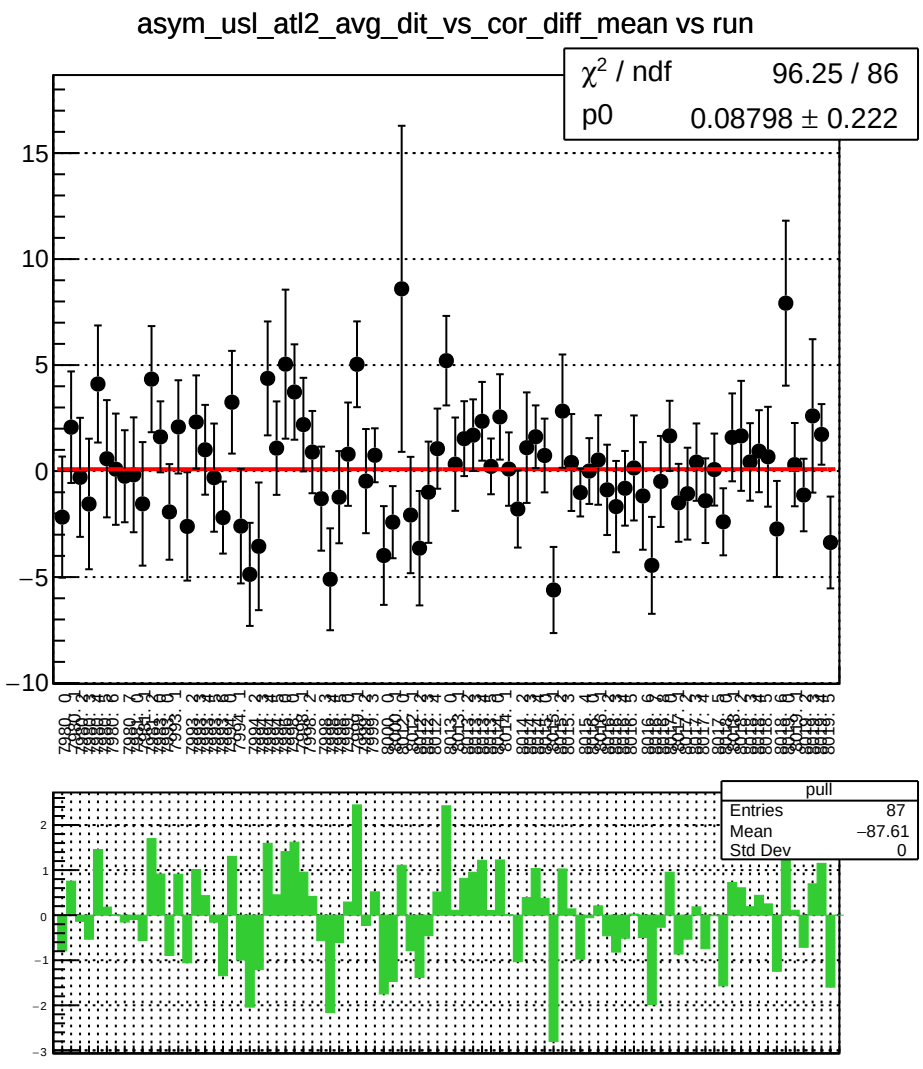

pull1D
Entries 87
Mean −0.004945
Std Dev 0.9232

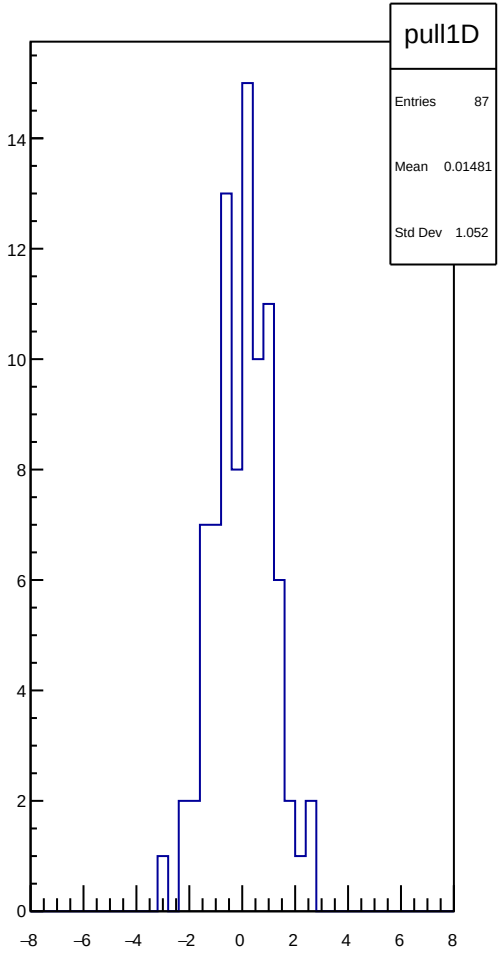

asym_usl_atl2_avg_rms vs run
χ² / ndf 4318 / 86
p0 5129 ± 3.87
5800
5600
5400
5200
5000
4800
4600

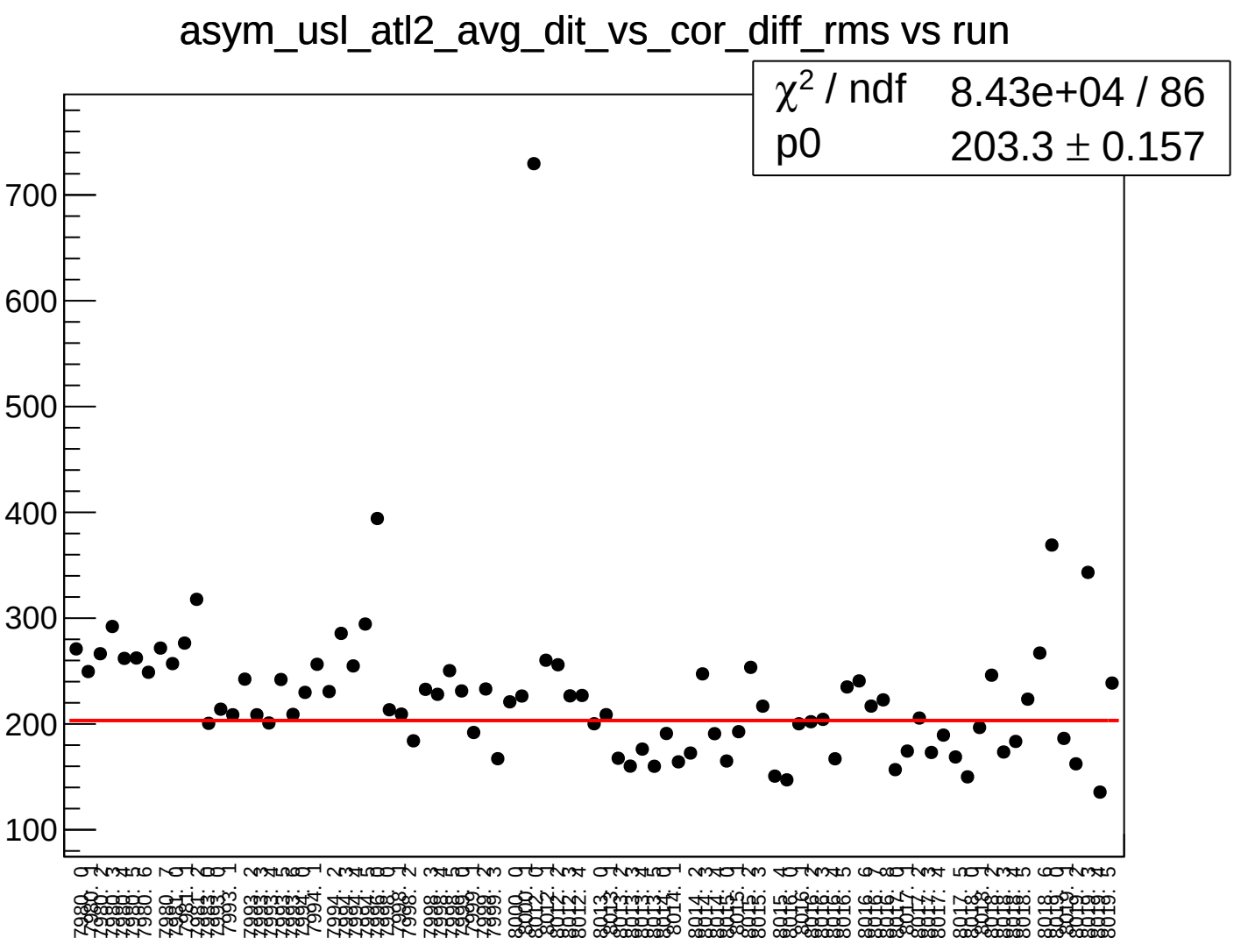

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.21 / 86
p0 −2.09e−13 ± 6.493e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 46.42
Std Dev 19.09
2
1
0
−1
−2

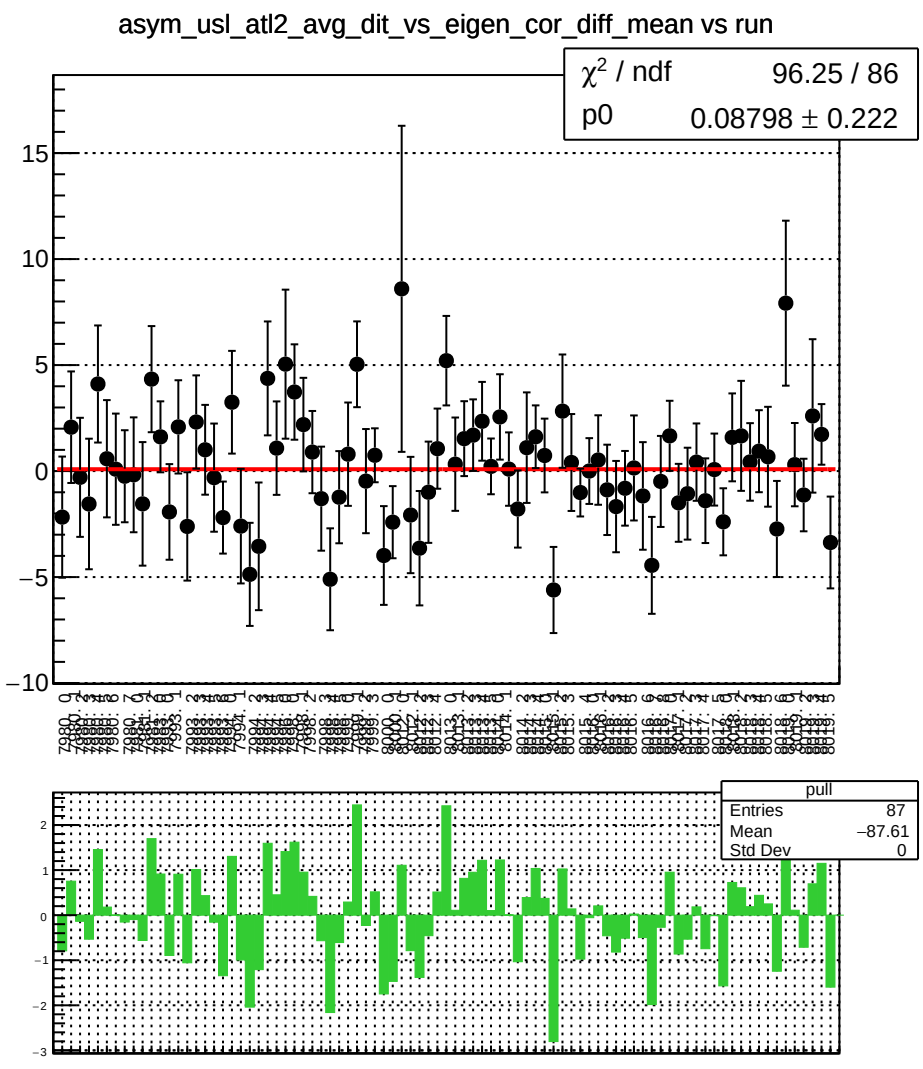

pull1D
Entries 87
Mean −0.1096
Std Dev 0.9836
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

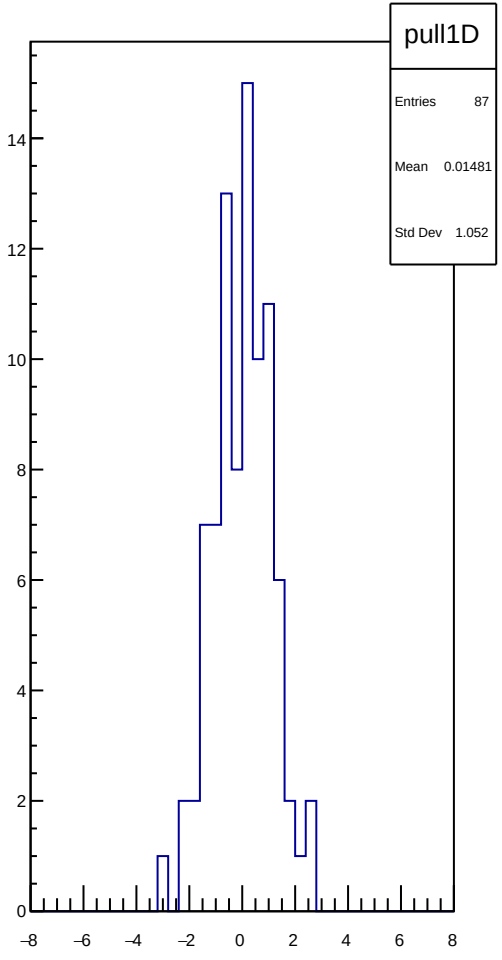

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.26e+06 / 86
p0 3.249e−10 ± 4.591e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

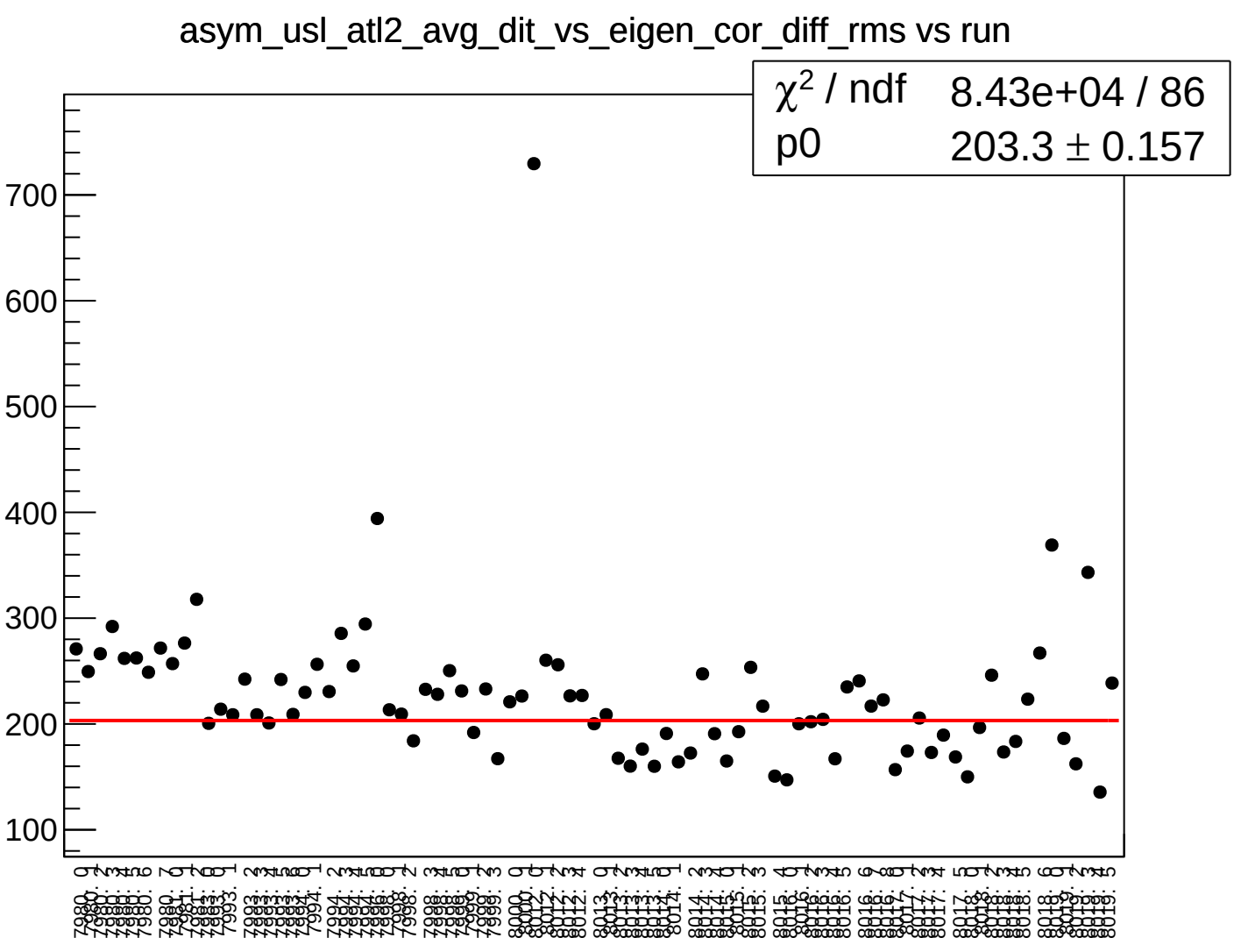

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.25 / 86
p0 0.08798 ± 0.222
pull
Entries 87
Mean −87.61
Std Dev 0

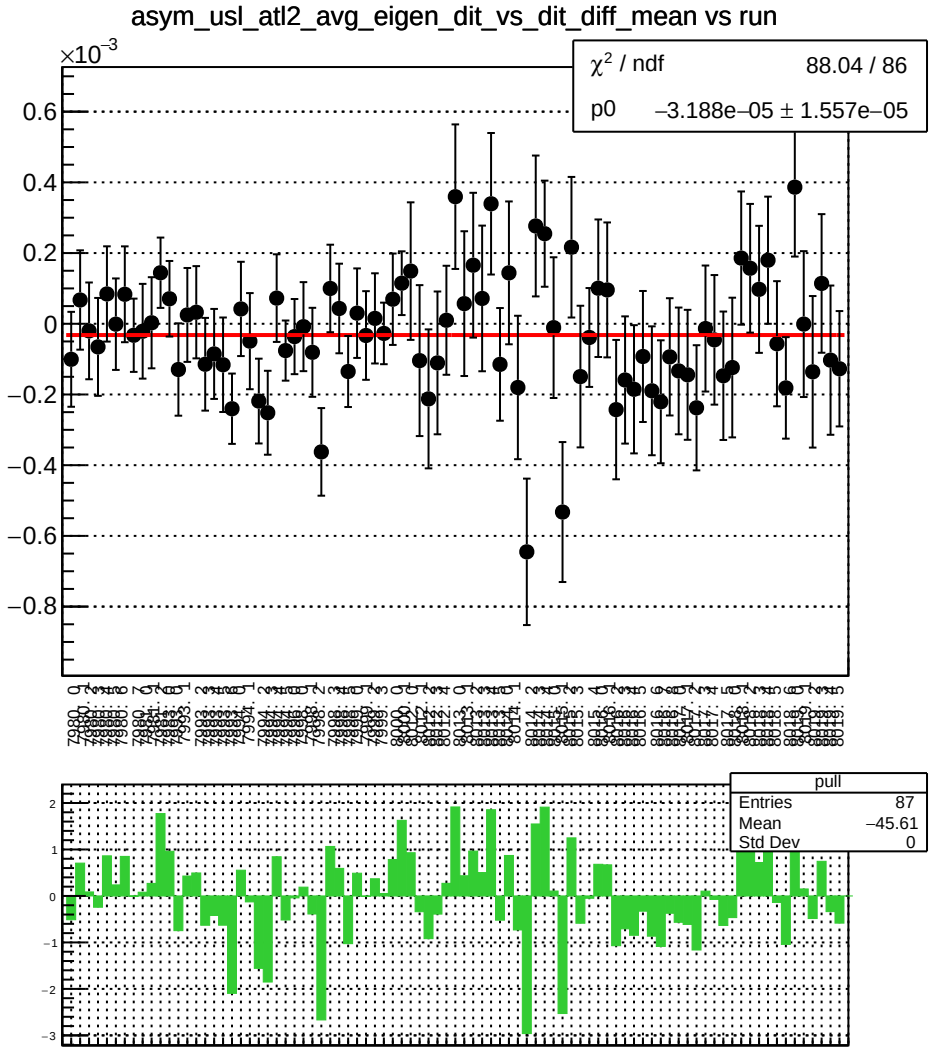

pull1D
Entries 87
Mean 0.01481
Std Dev 1.052

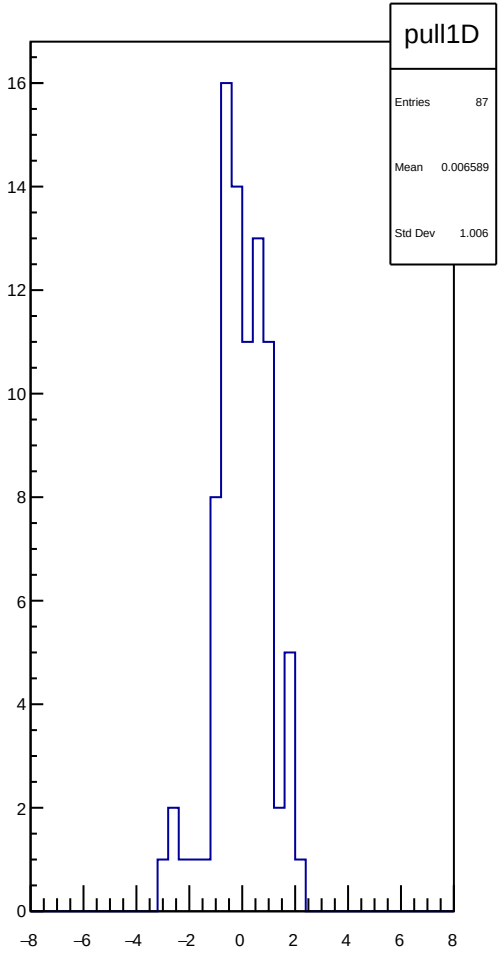

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.43e+04 / 86
p0 203.3 ± 0.157
700
600
500
400
300
200
100

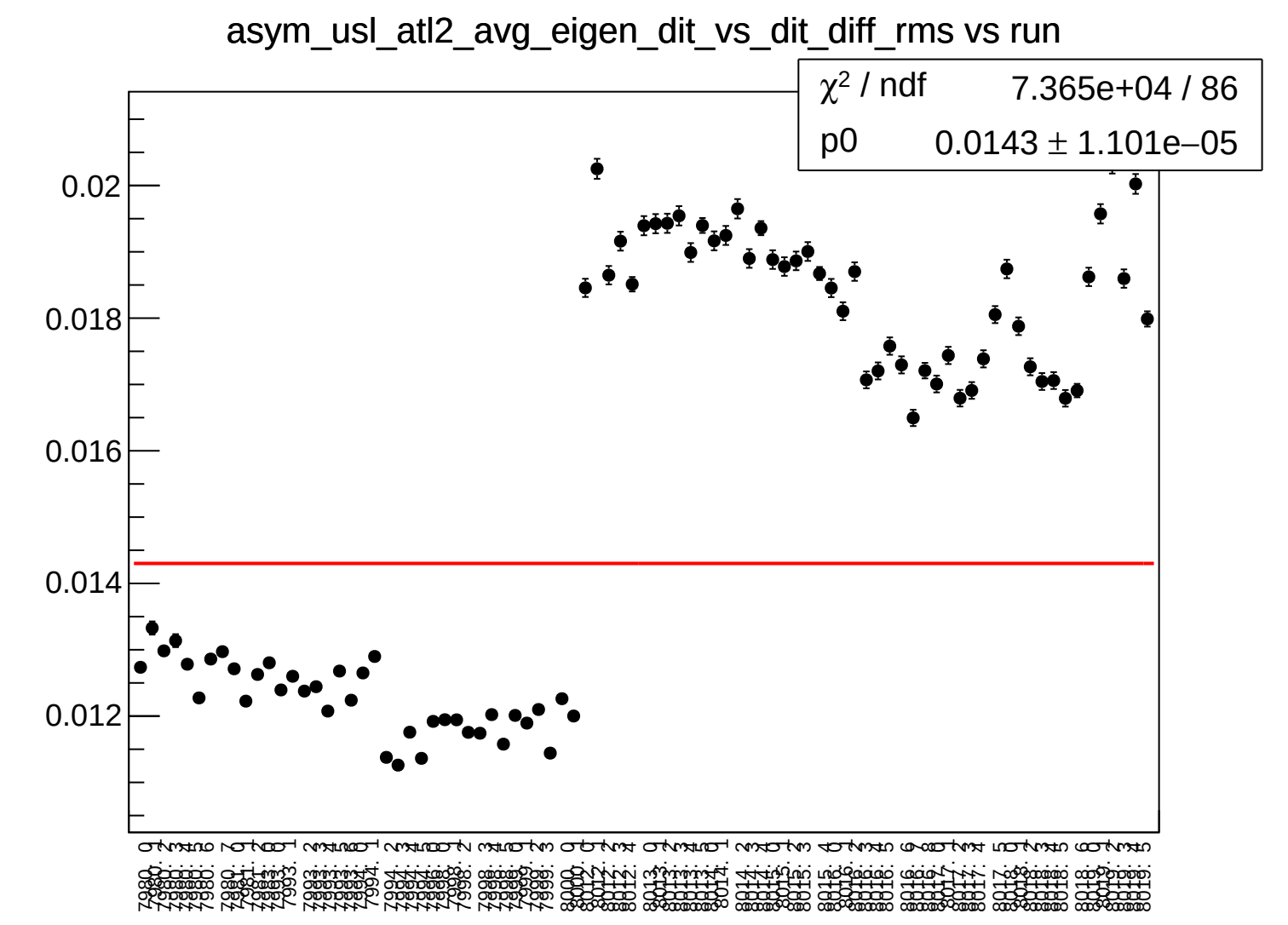

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.25 / 86
p0 0.08798 ± 0.222
pull
Entries 87
Mean −87.61
Std Dev 0

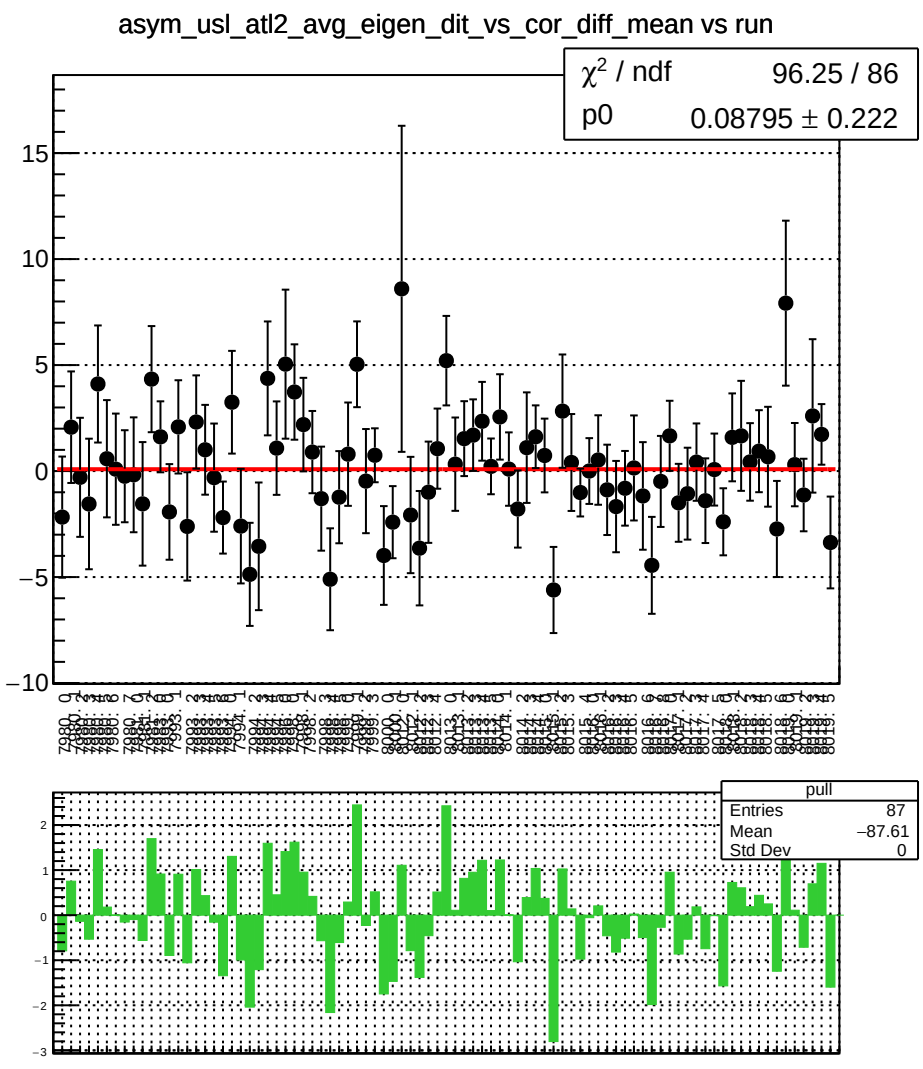

pull1D
Entries 87
Mean 0.01481
Std Dev 1.052

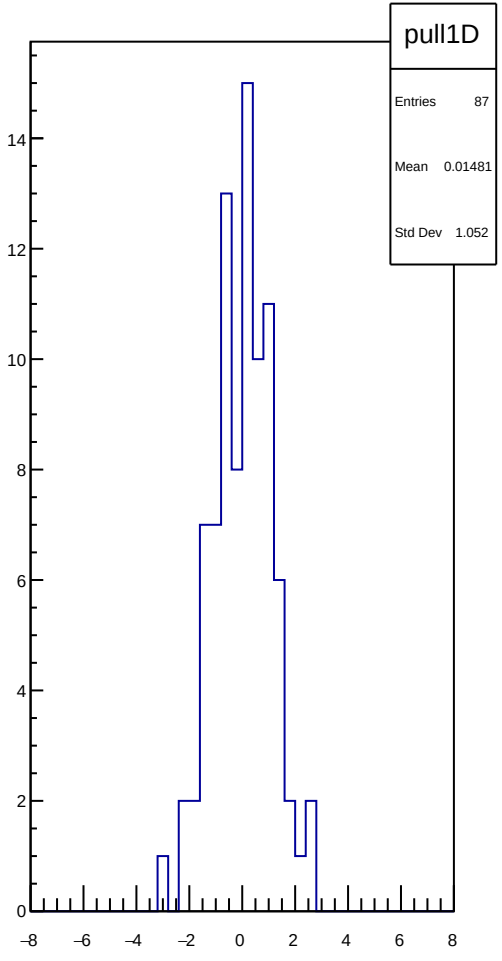

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.43e+04 / 86
p0 203.3 ± 0.157
700
600
500
400
300
200
100

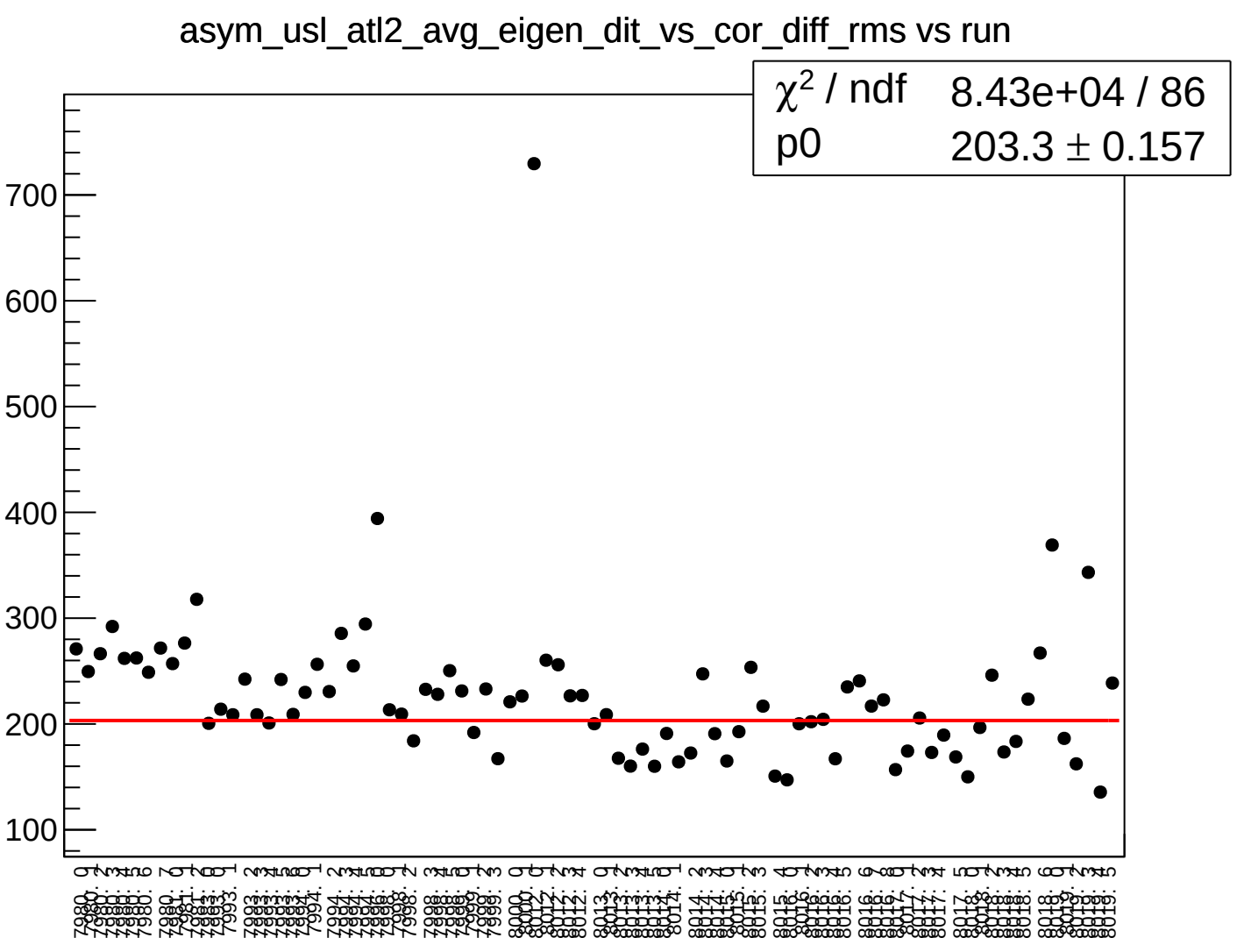

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.04 / 86
p0 −3.188e−05 ± 1.557e−05
pull
Entries 87
Mean −45.61
Std Dev 0

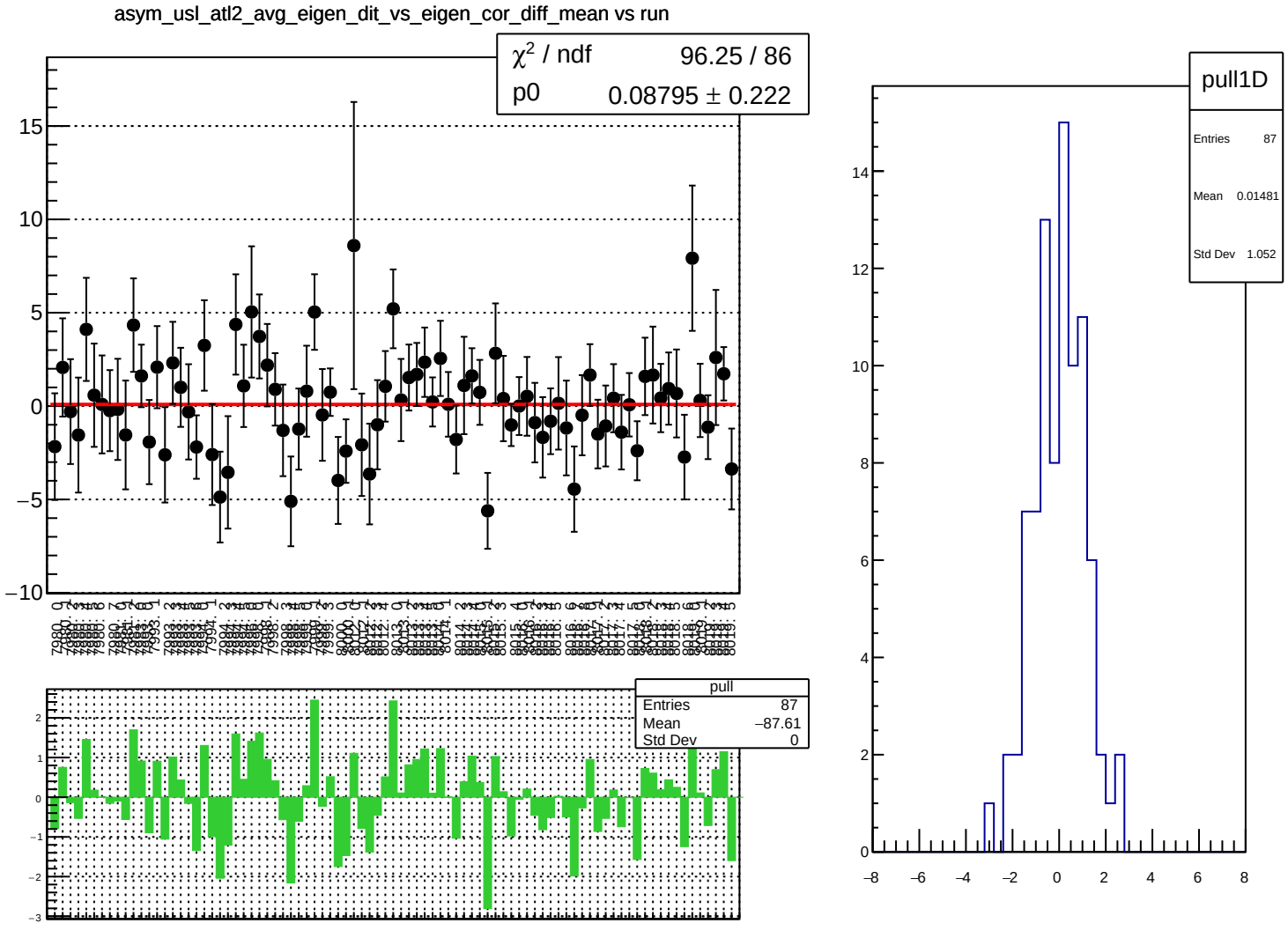

pull1D
Entries 87
Mean 0.006589
Std Dev 1.006

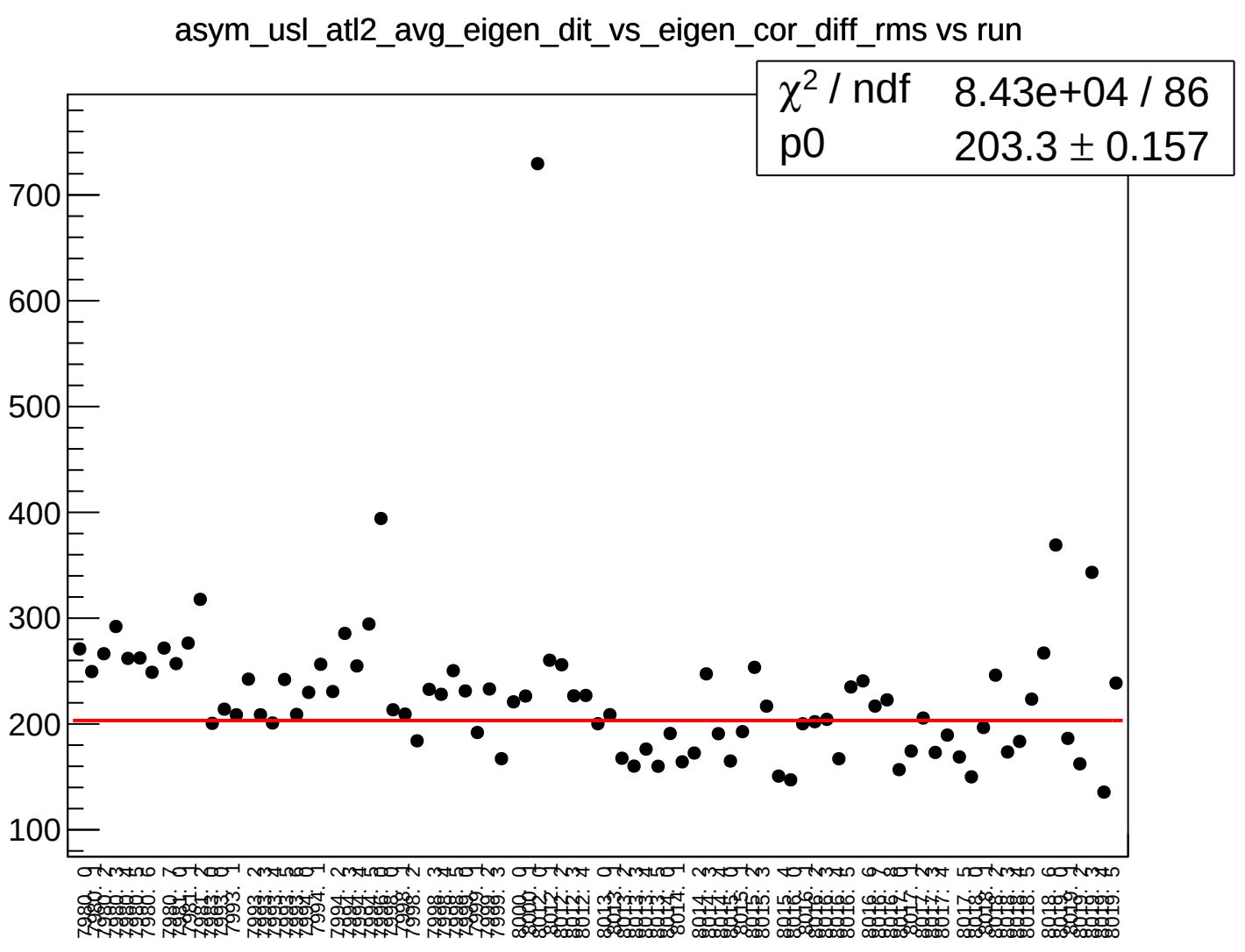

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.365e+04 / 86
p0 0.0143 ± 1.101e−05
0.02
0.018
0.016
0.014
0.012

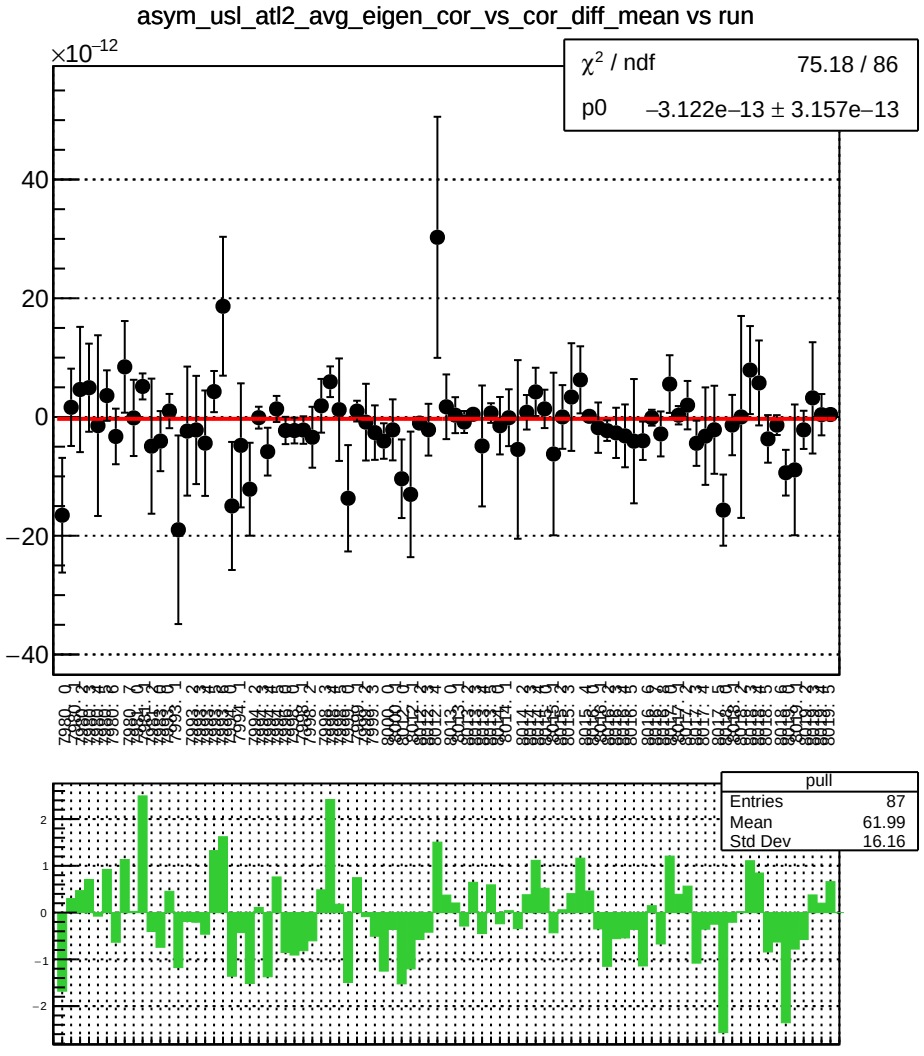

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.25 / 86
p0 0.08795 ± 0.222
pull
Entries 87
Mean −87.61
Std Dev 0

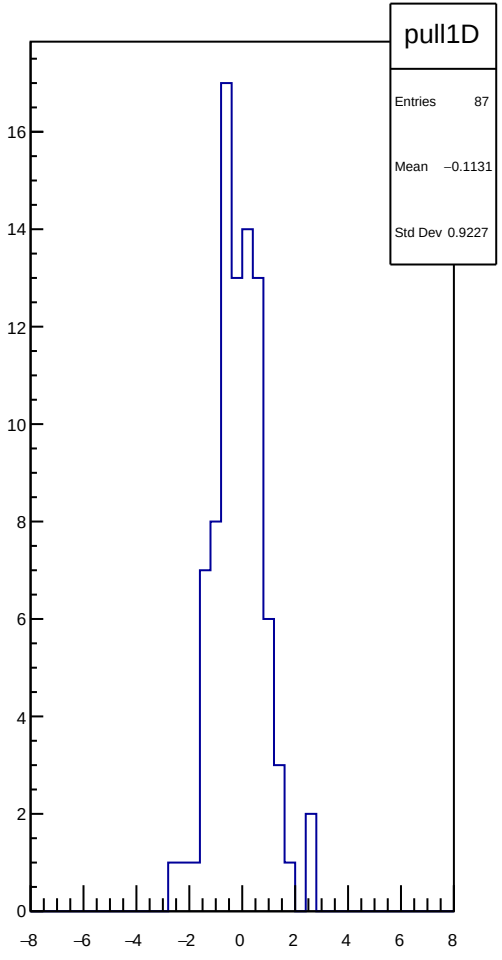

pull1D
Entries 87
Mean 0.01481
Std Dev 1.052

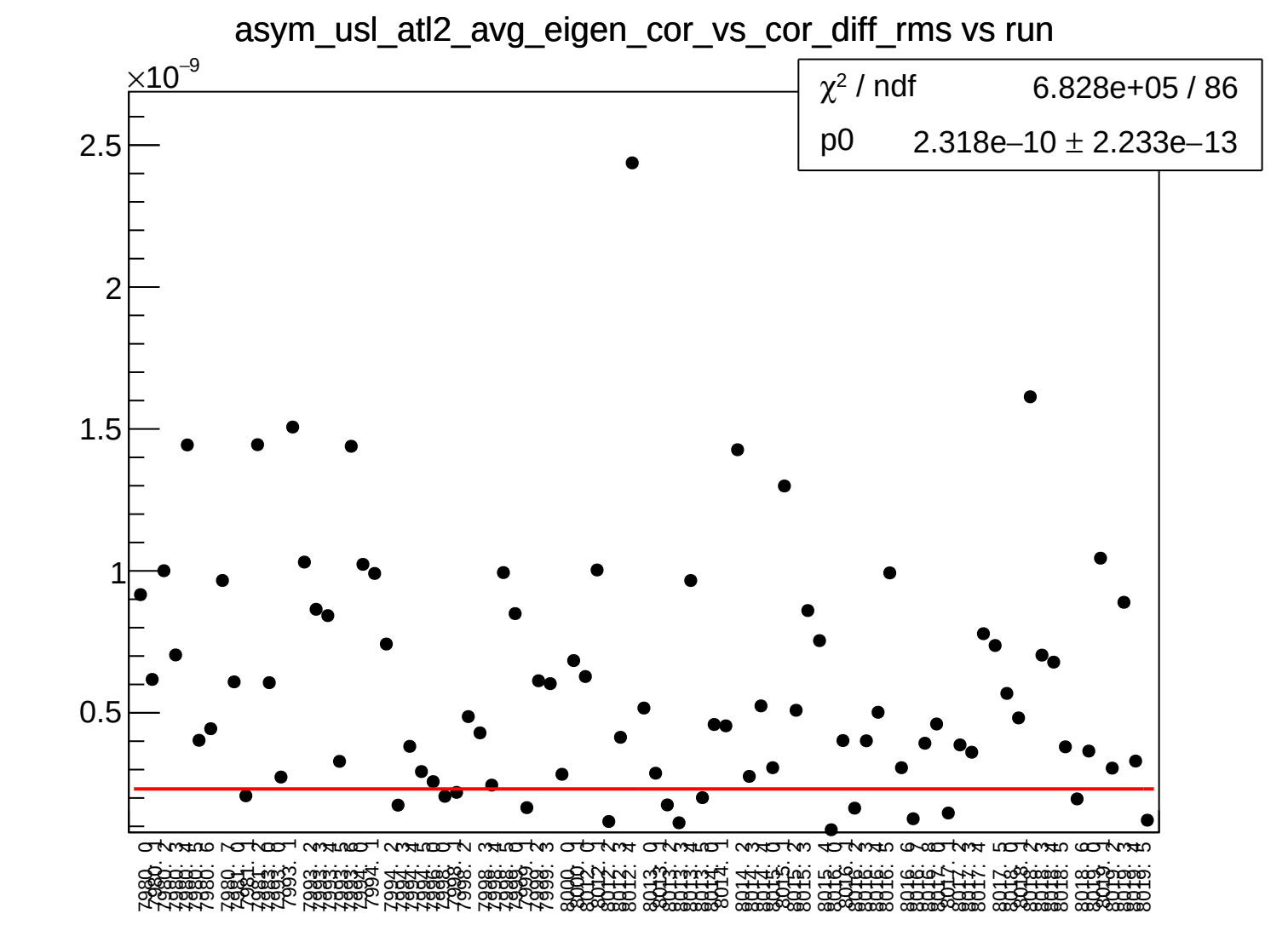

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.43e+04 / 86
p0 203.3 ± 0.157
700
600
500
400
300
200
100

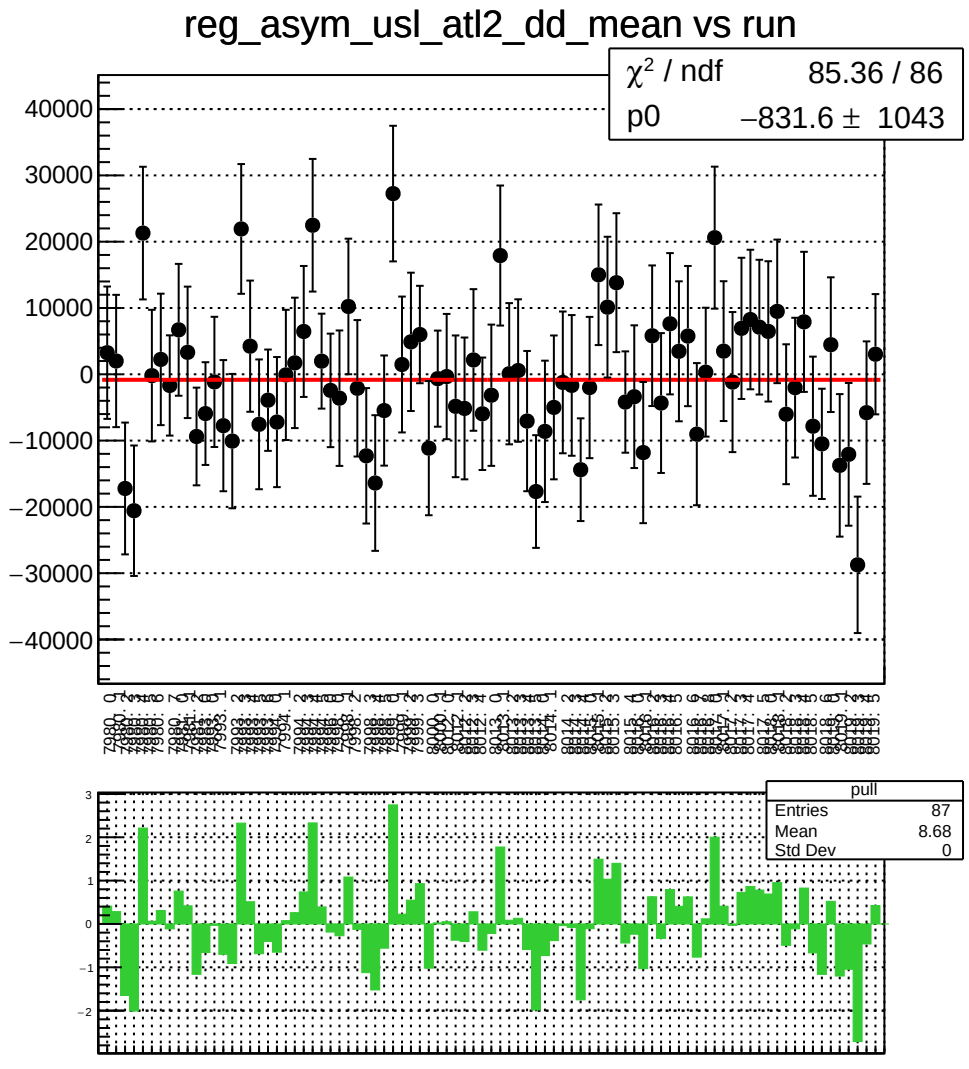

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.25 / 86
p0 0.08795 ± 0.222
pull
Entries 87
Mean −87.61
Std Dev 0
pull1D
Entries 87
Mean 0.01481
Std Dev 1.052

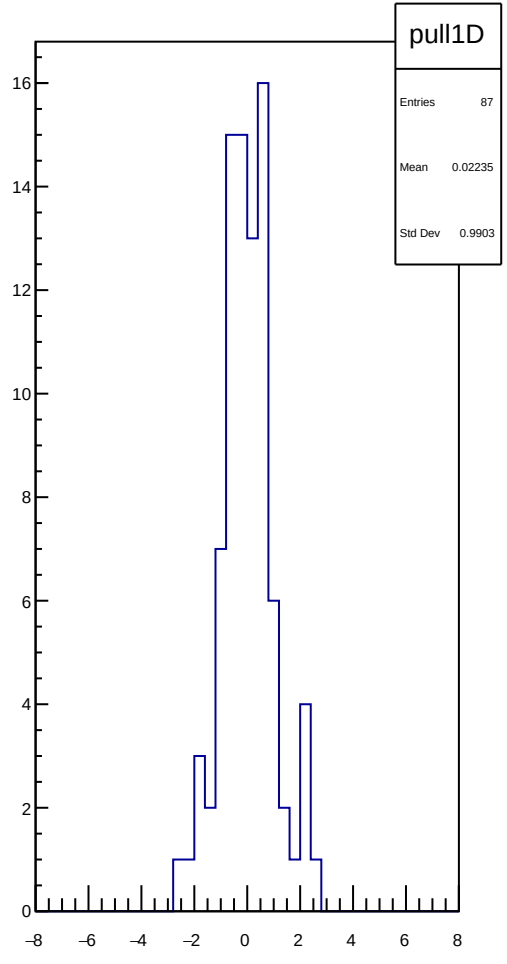

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.43e+04 / 86
p0 203.3 ± 0.157
700
600
500
400
300
200
100

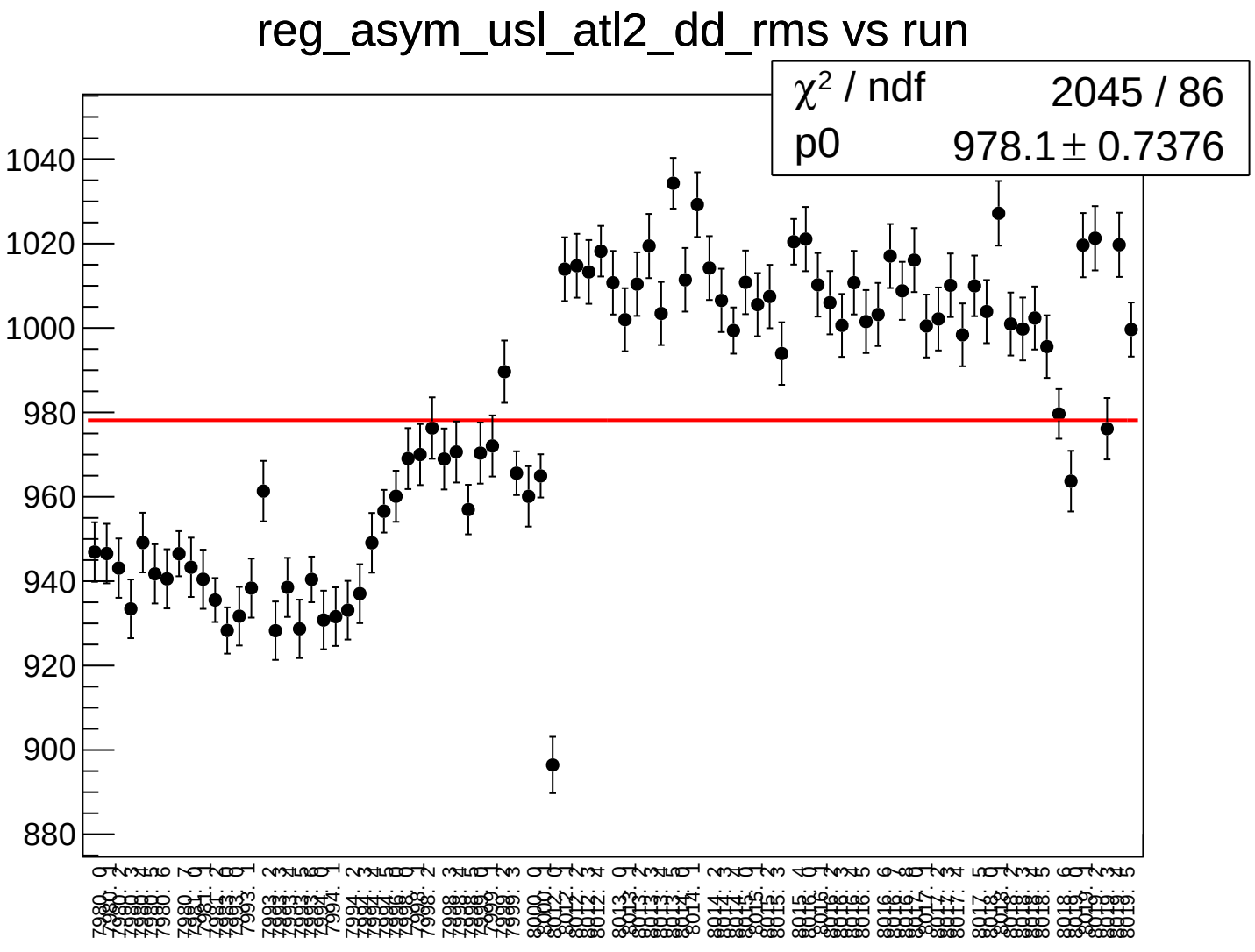

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.18 / 86
p0 −3.122e−13 ± 3.157e−13
40
20
0
−20
−40
pull
Entries 87
Mean 61.99
Std Dev 16.16
2
1
0
−1
−2

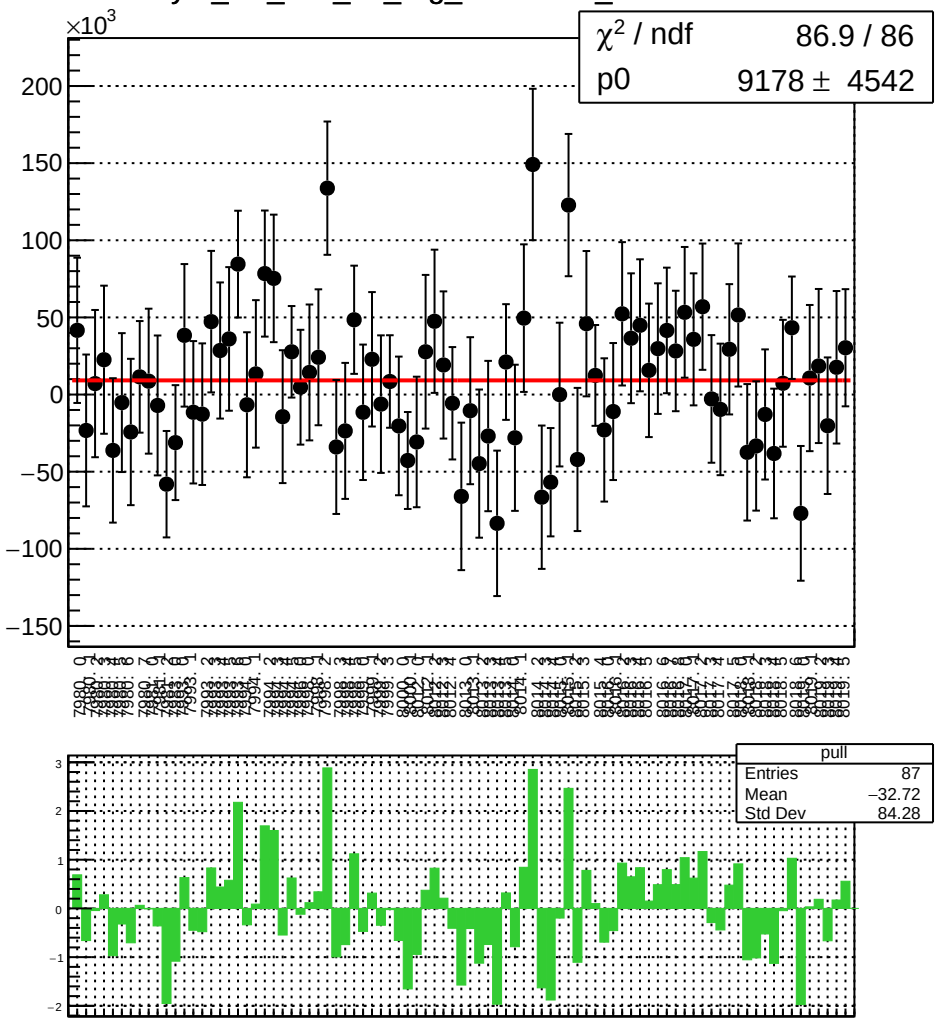

pull1D
Entries 87
Mean −0.1131
Std Dev 0.9227
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

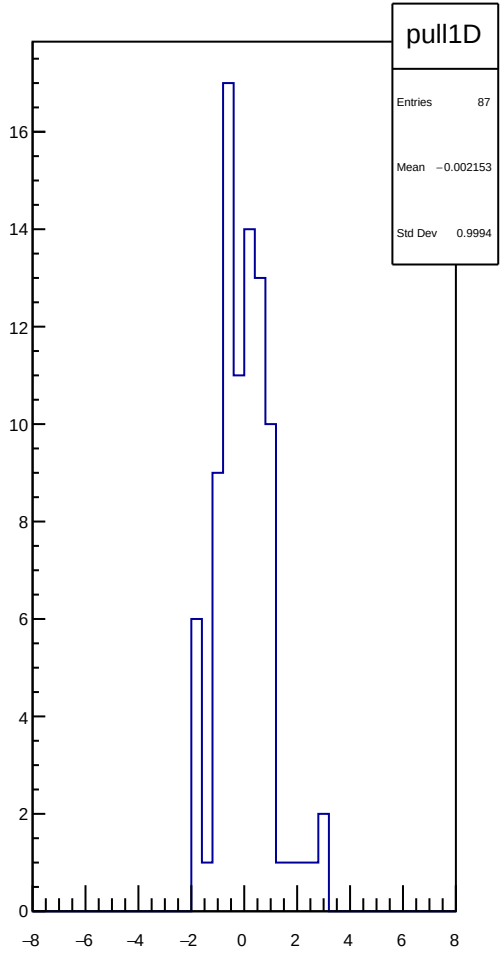

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.828e+05 / 86
p0 2.318e−10 ± 2.233e−13
2.5
2
1.5
1
0.5

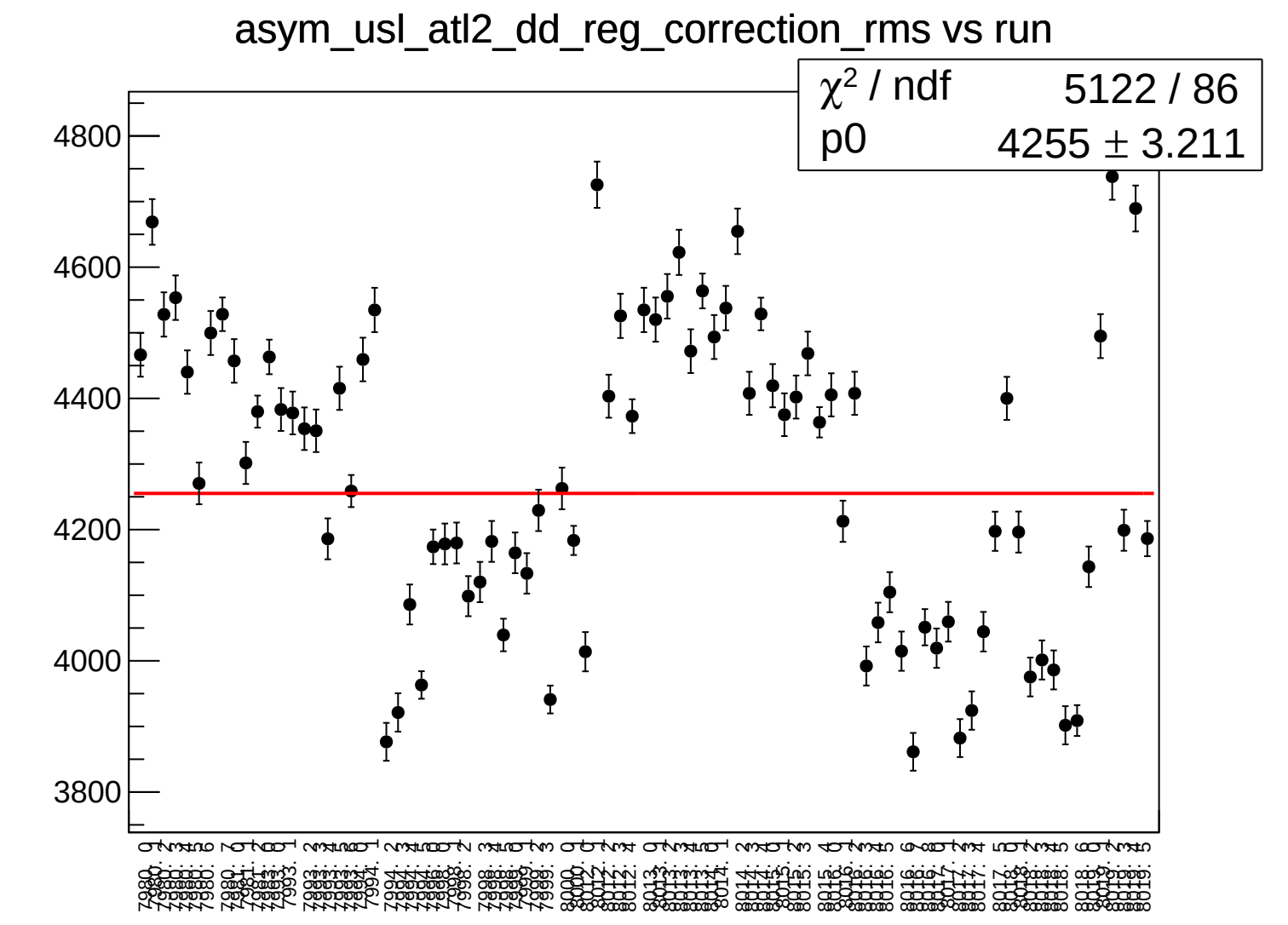

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 85.36 / 86
p0 −831.6 ± 1043
pull
Entries 87
Mean 8.68
Std Dev 0

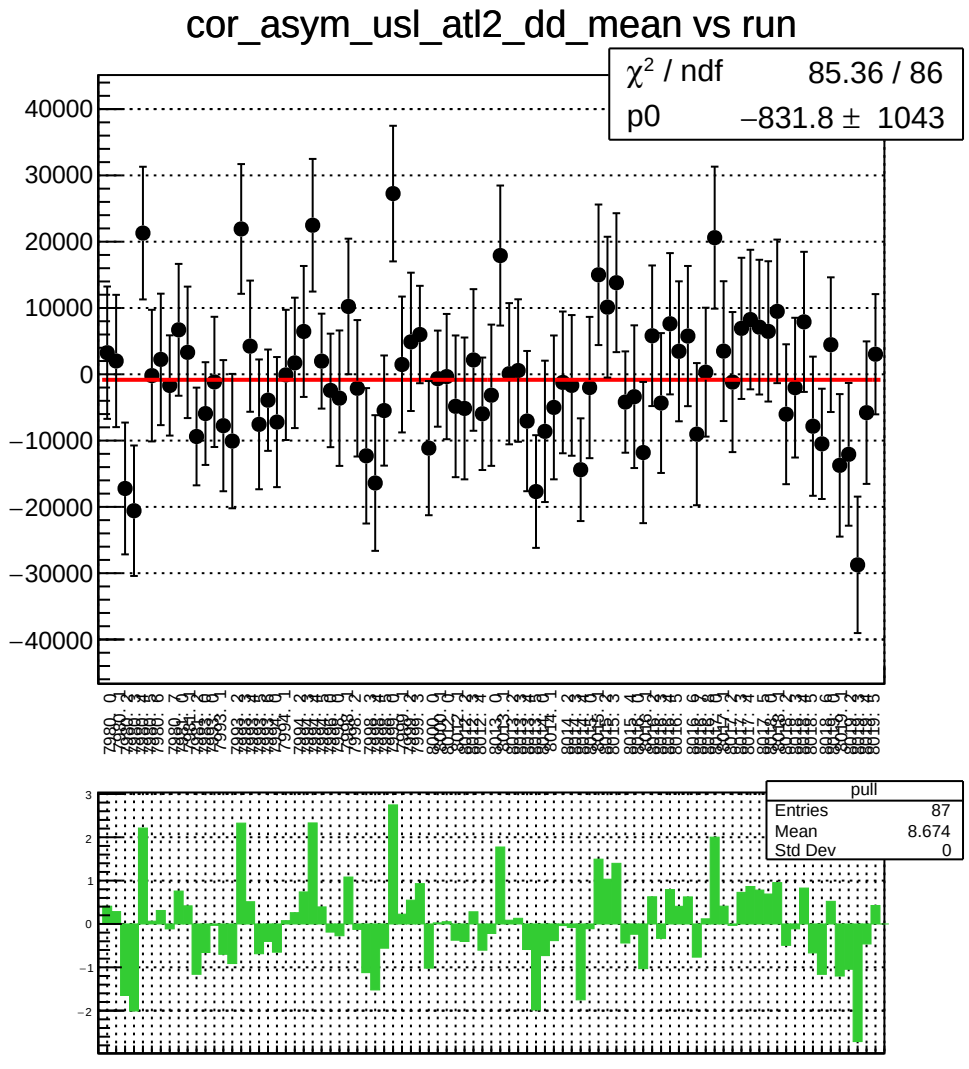

pull1D
Entries 87
Mean 0.02235
Std Dev 0.9903

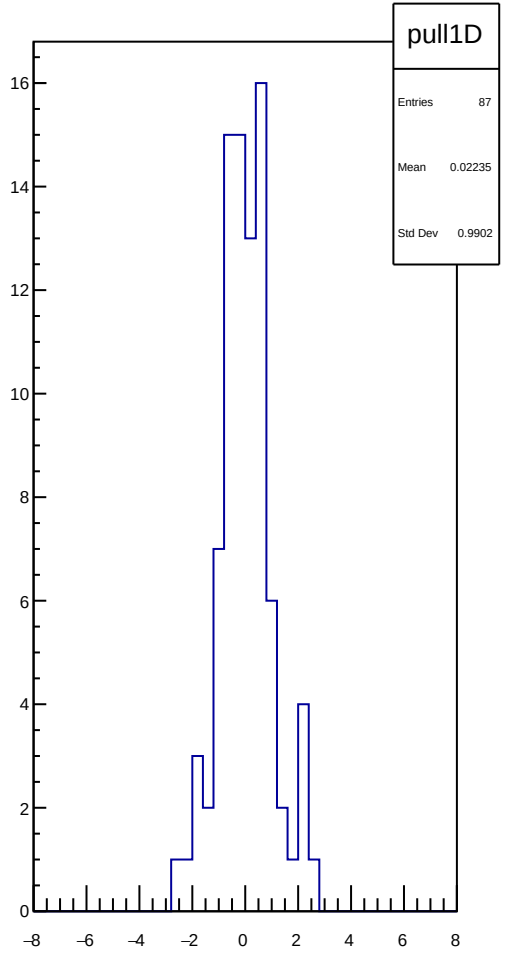

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 2045 / 86
p0 978.1 ± 0.7376
1040
1020
1000
980
960
940
920
900
880

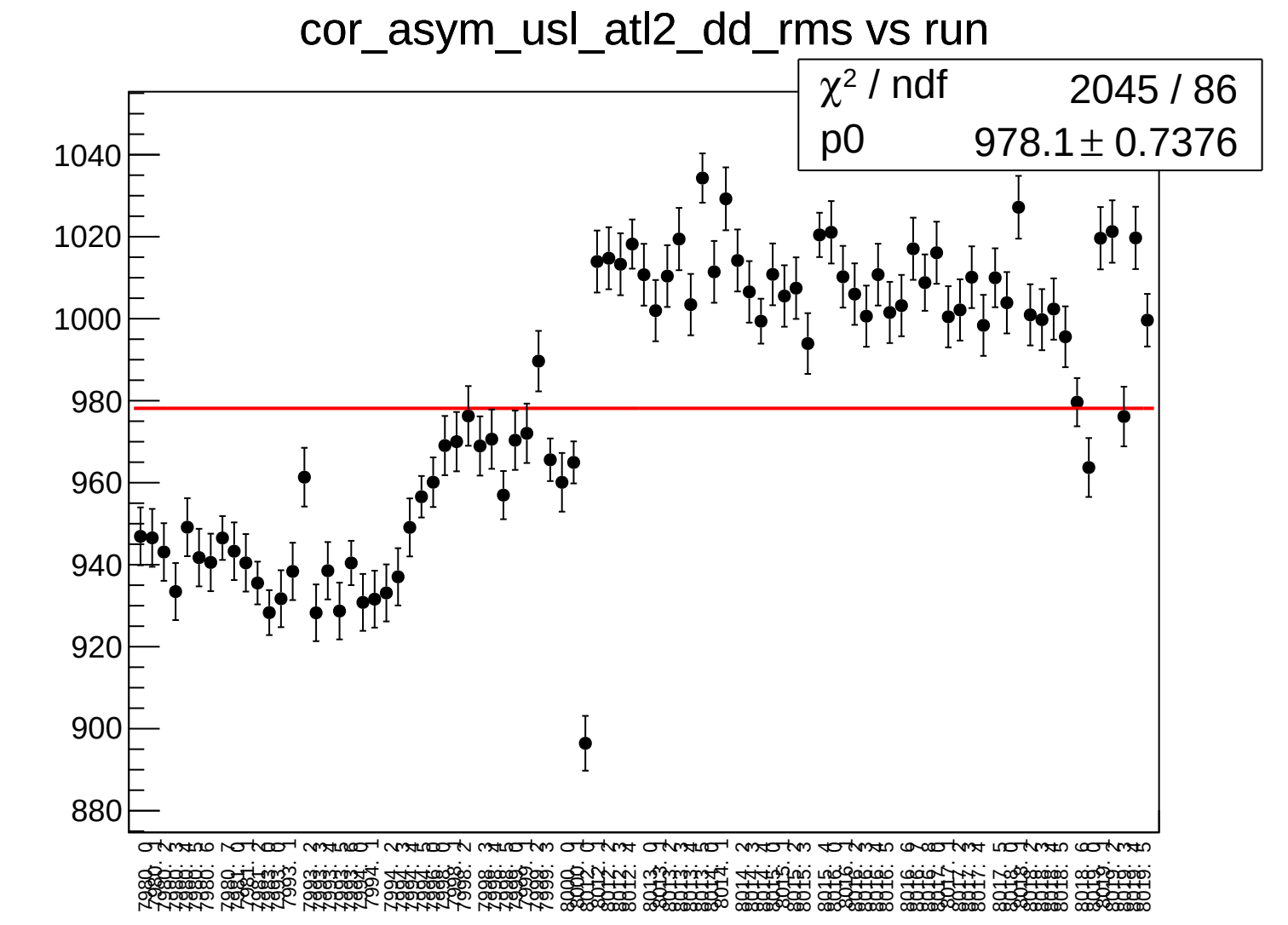

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.9 / 86
p0 9178 ± 4542
200
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −32.72
Std Dev 84.28
3
2
1
0
−1
−2

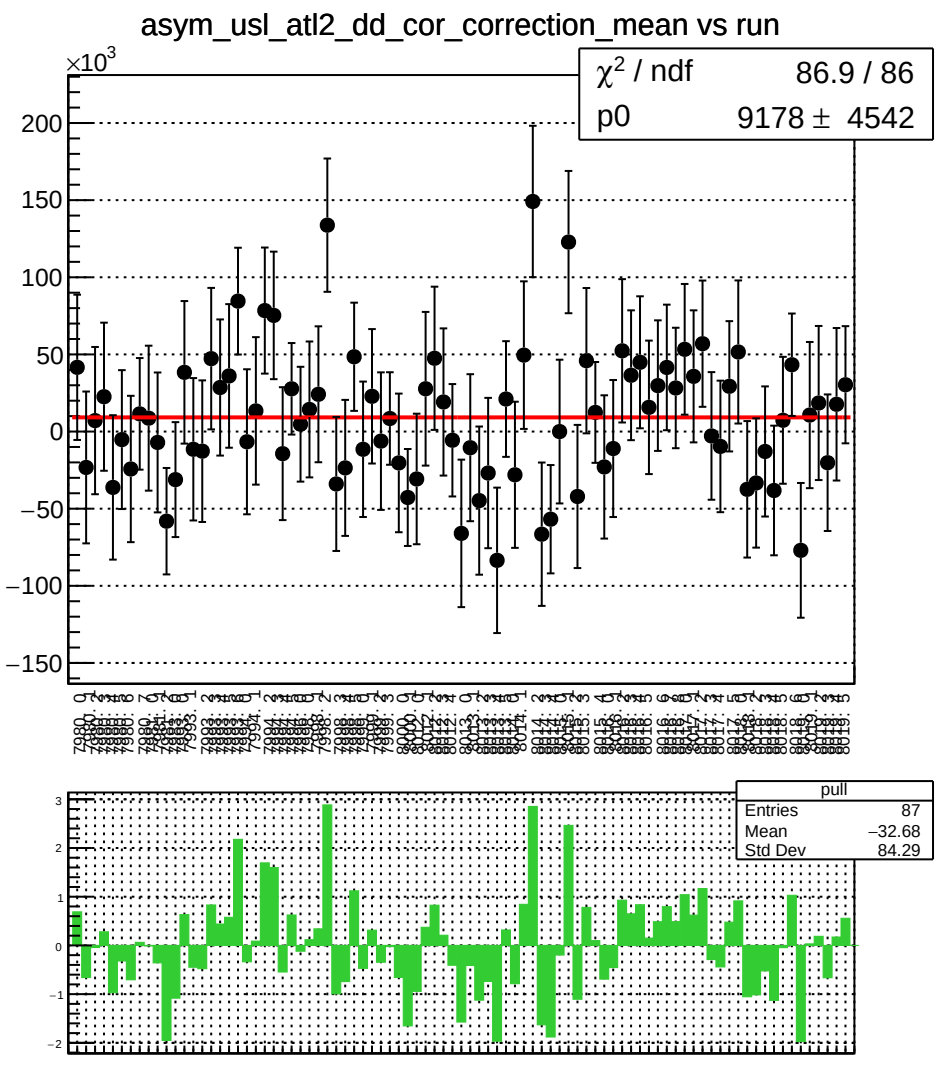

pull1D
Entries 87
Mean −0.002153
Std Dev 0.9994
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

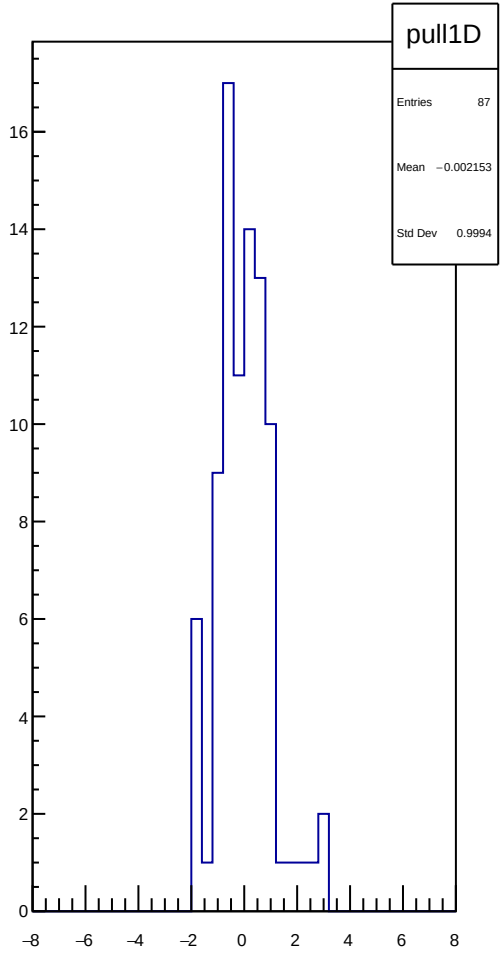

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 5122 / 86
p0 4255 ± 3.211
4800
4600
4400
4200
4000
3800

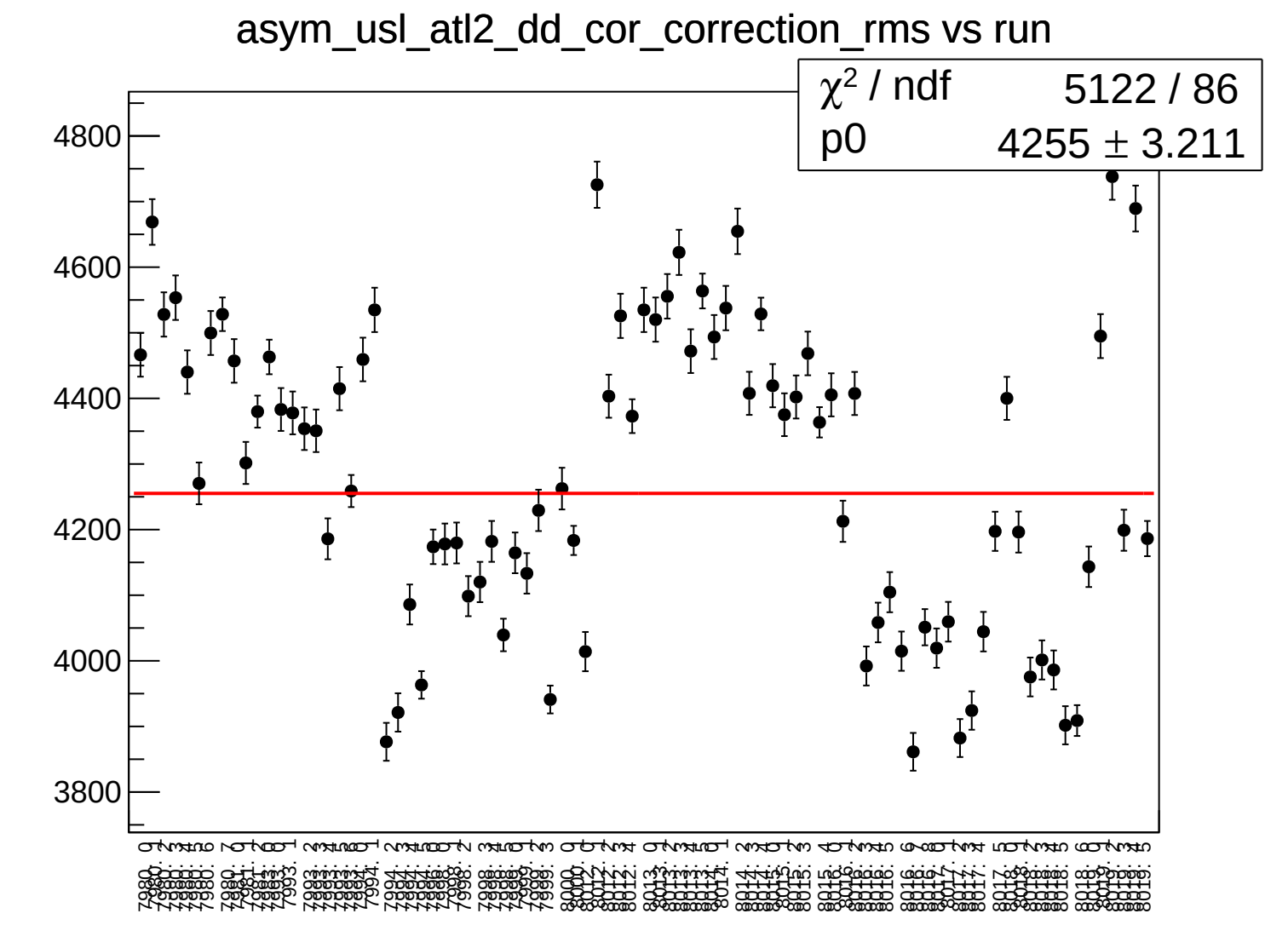

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 85.36 / 86
p0 −831.8 ± 1043
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean 8.674
Std Dev 0
3
2
1
0
−1
−2

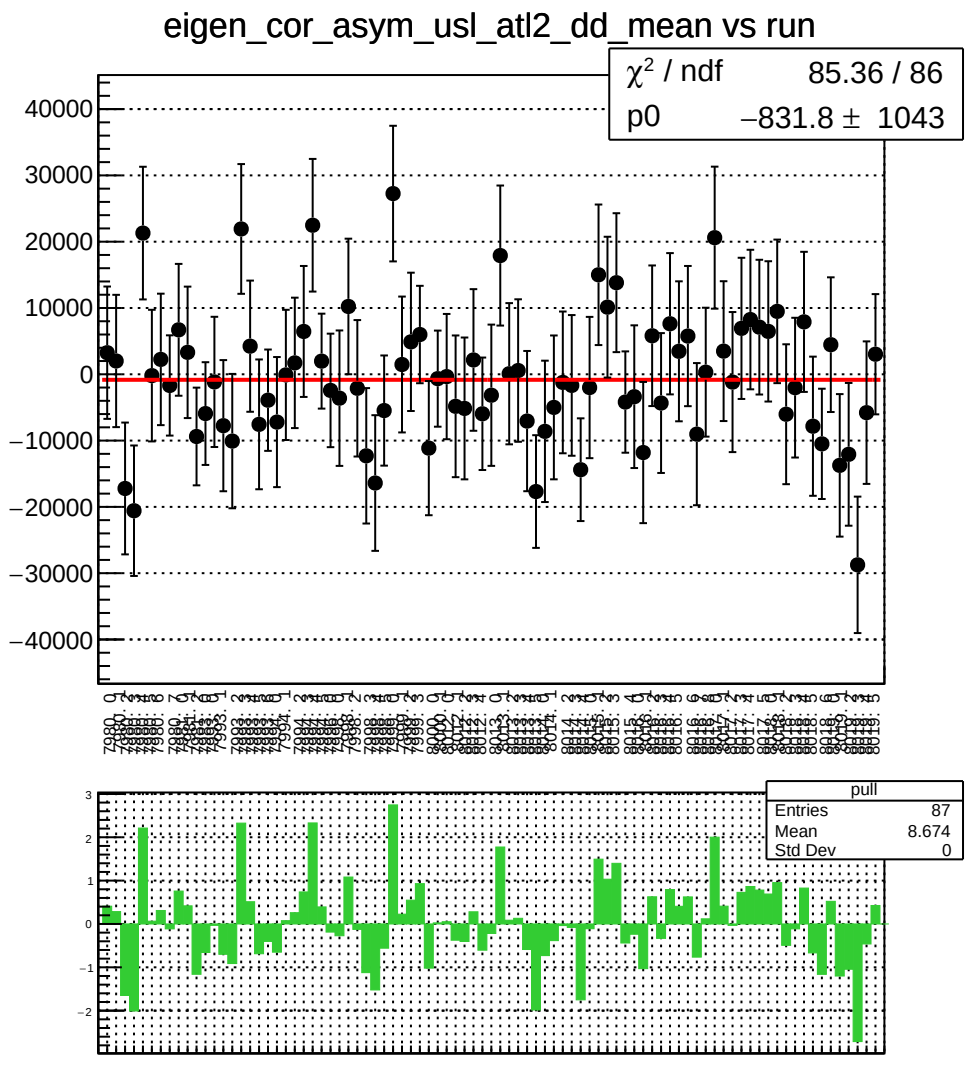

pull1D
Entries 87
Mean 0.02235
Std Dev 0.9902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

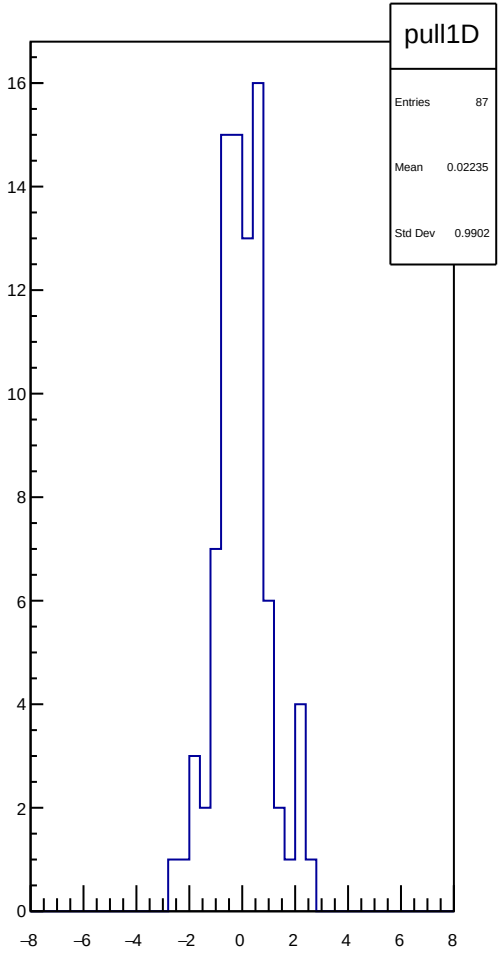

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 2045 / 86
p0 978.1 ± 0.7376
1040
1020
1000
980
960
940
920
900
880

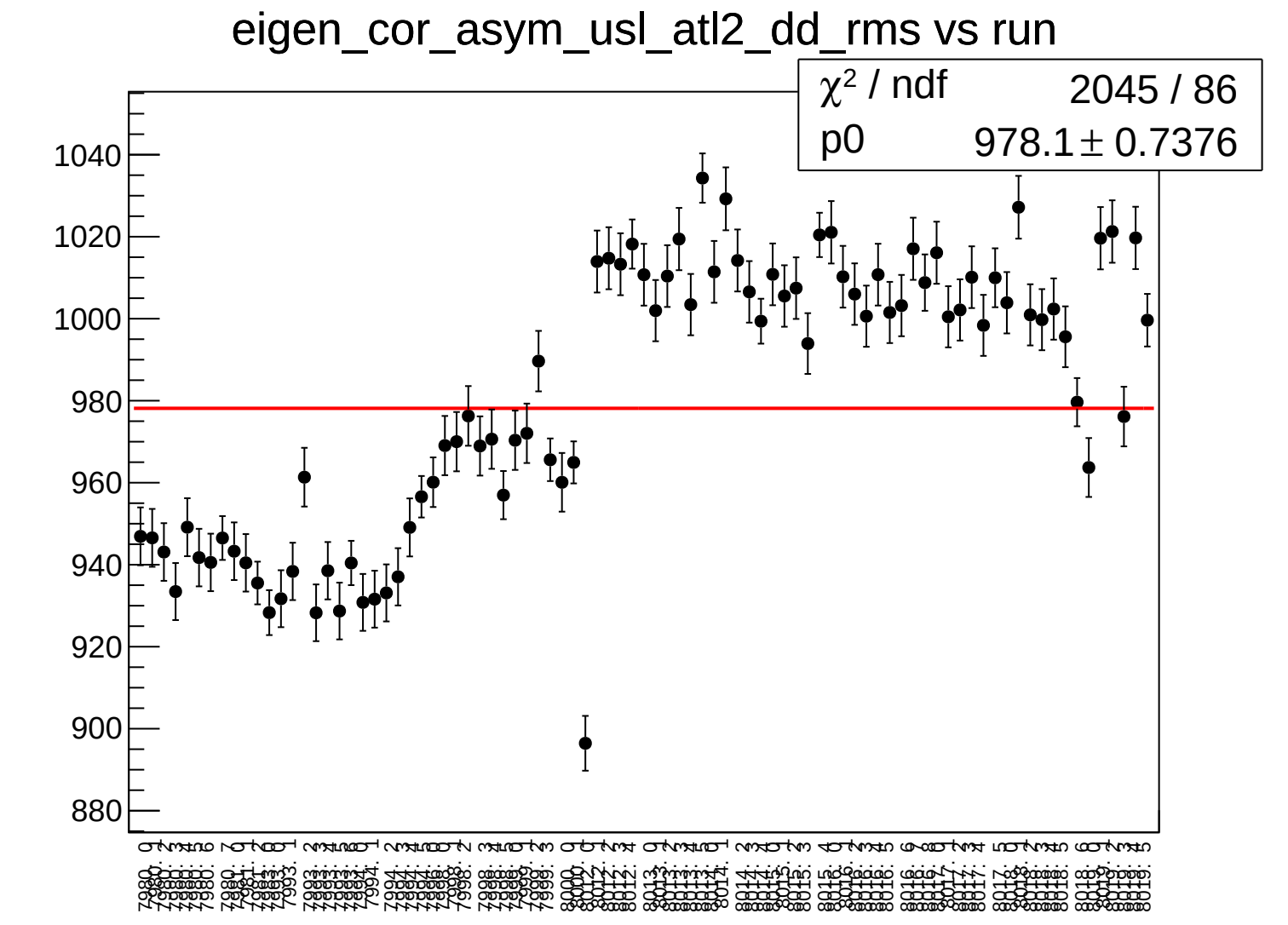

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.9 / 86
p0 9178 ± 4542
pull
Entries 87
Mean −32.68
Std Dev 84.29

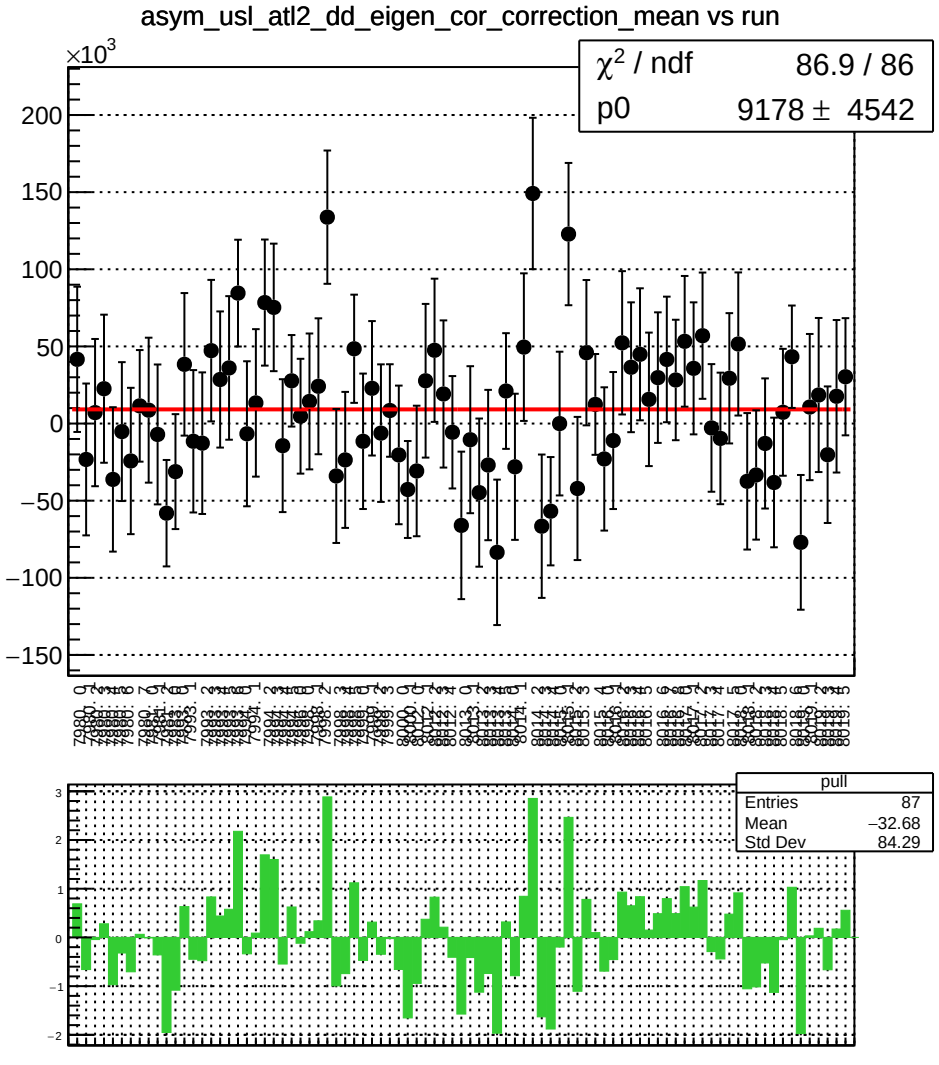

pull1D
Entries 87
Mean −0.002153
Std Dev 0.9994

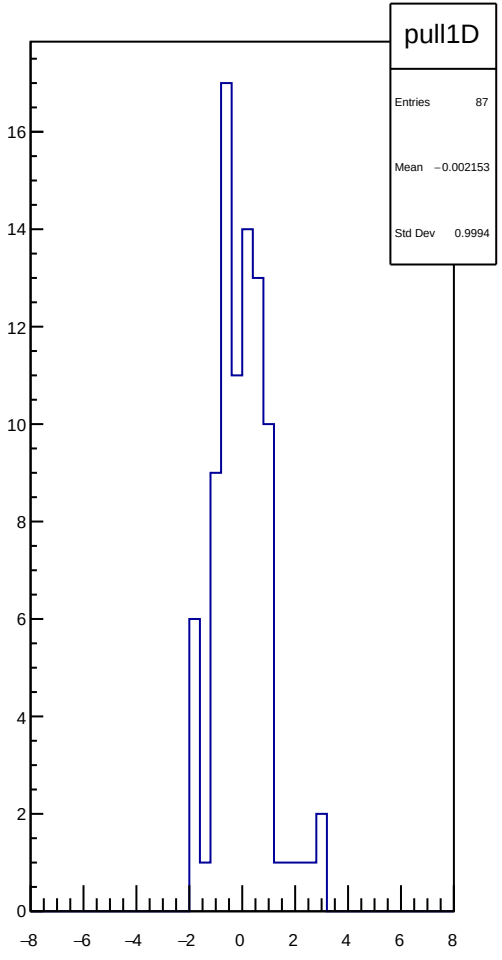

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 5122 / 86
p0 4255 ± 3.211
4800
4600
4400
4200
4000
3800

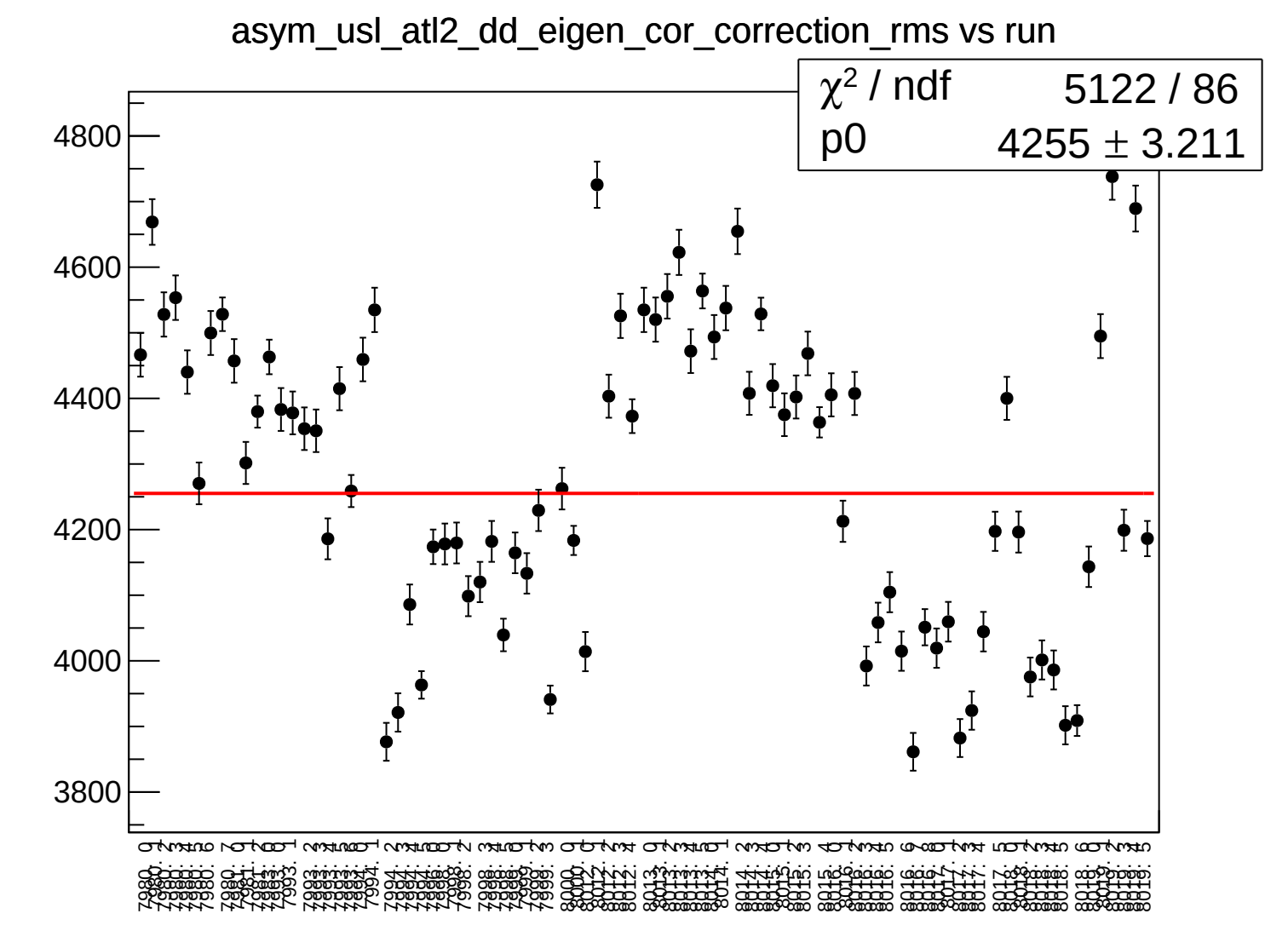

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 85.36 / 86
p0 −831.8 ± 1043
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean 8.674
Std Dev 0
3
2
1
0
−1
−2

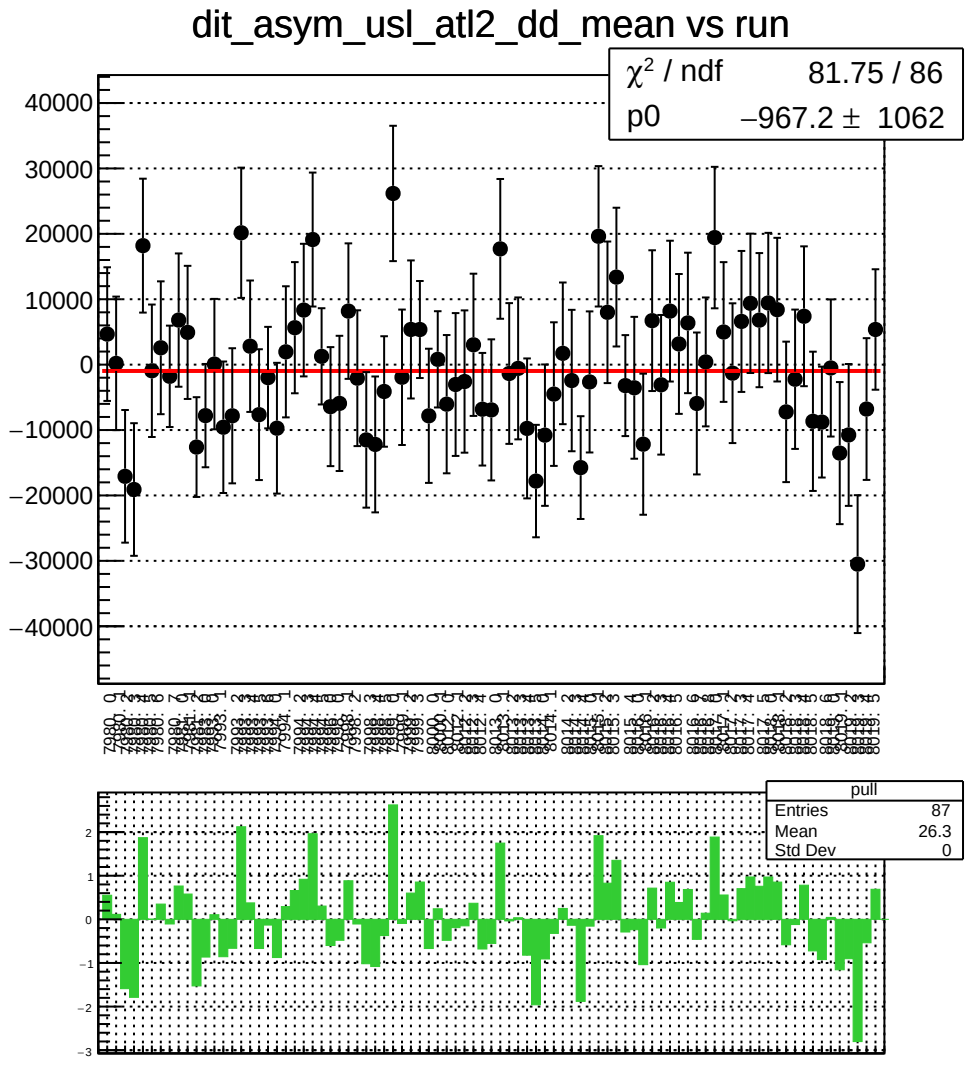

pull1D
Entries 87
Mean 0.02235
Std Dev 0.9902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

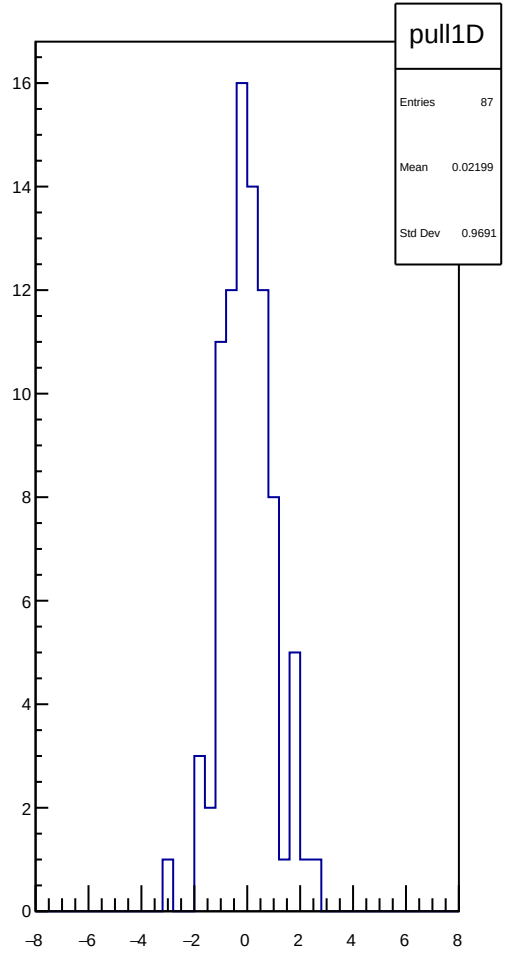

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 2045 / 86
p0 978.1 ± 0.7376
1040
1020
1000
980
960
940
920
900
880

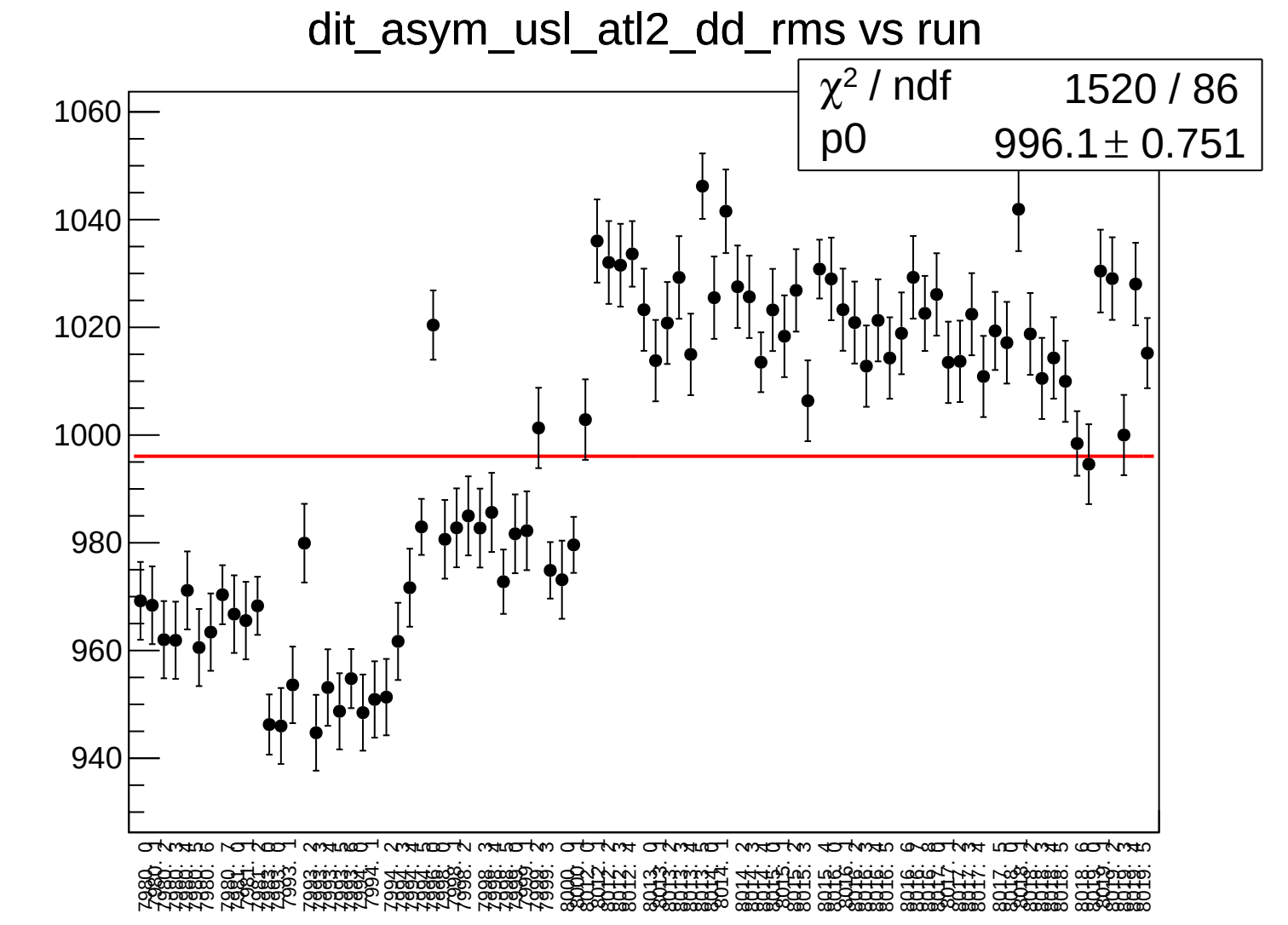

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.9 / 86
p0 9178 ± 4542
200
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −32.68
Std Dev 84.29
3
2
1
0
−1
−2

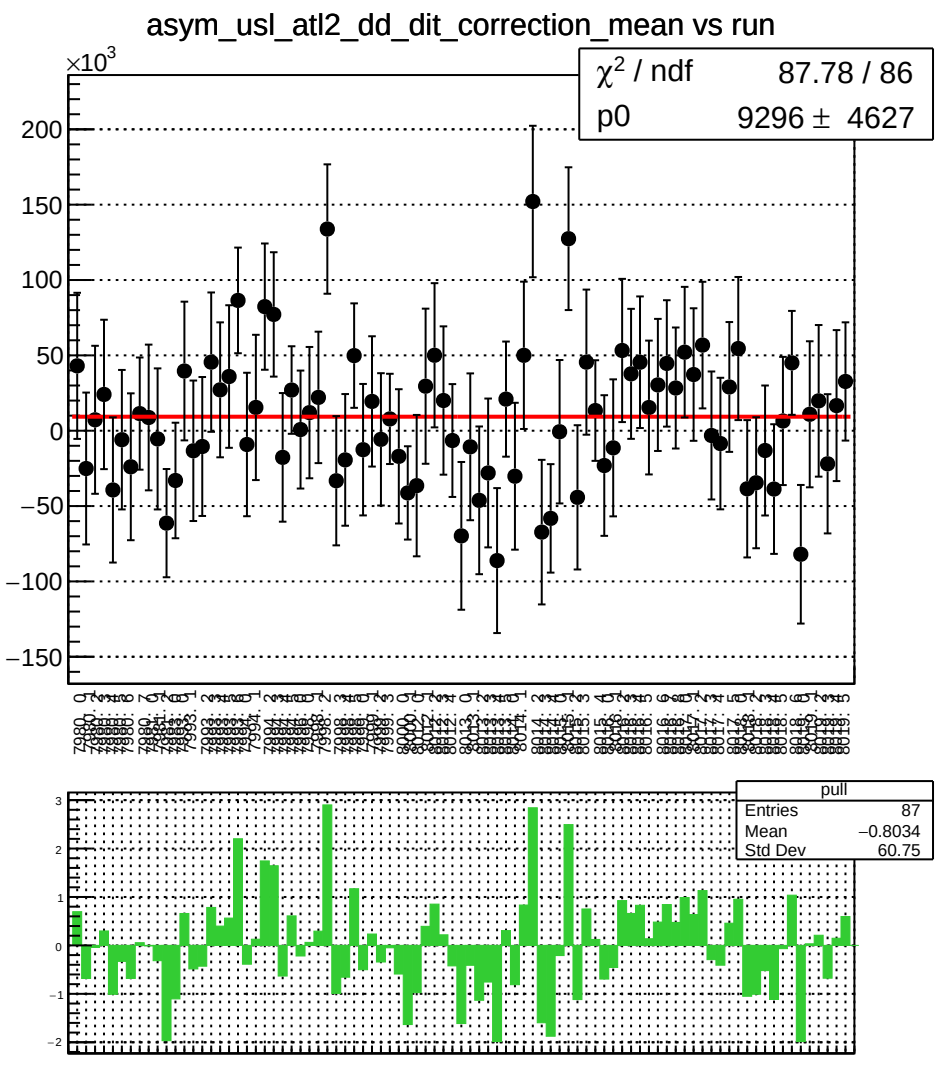

pull1D
Entries 87
Mean −0.002153
Std Dev 0.9994
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

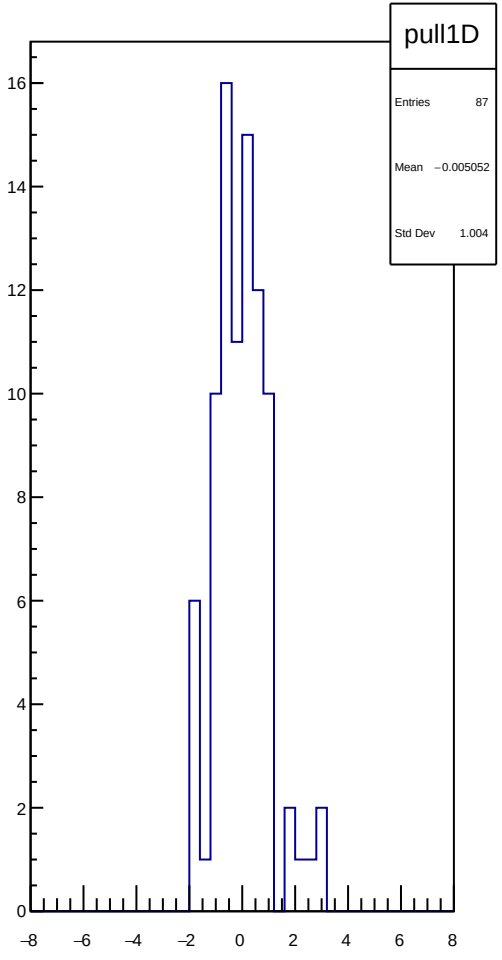

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5122 / 86
p0 4255 ± 3.211
4800
4600
4400
4200
4000
3800

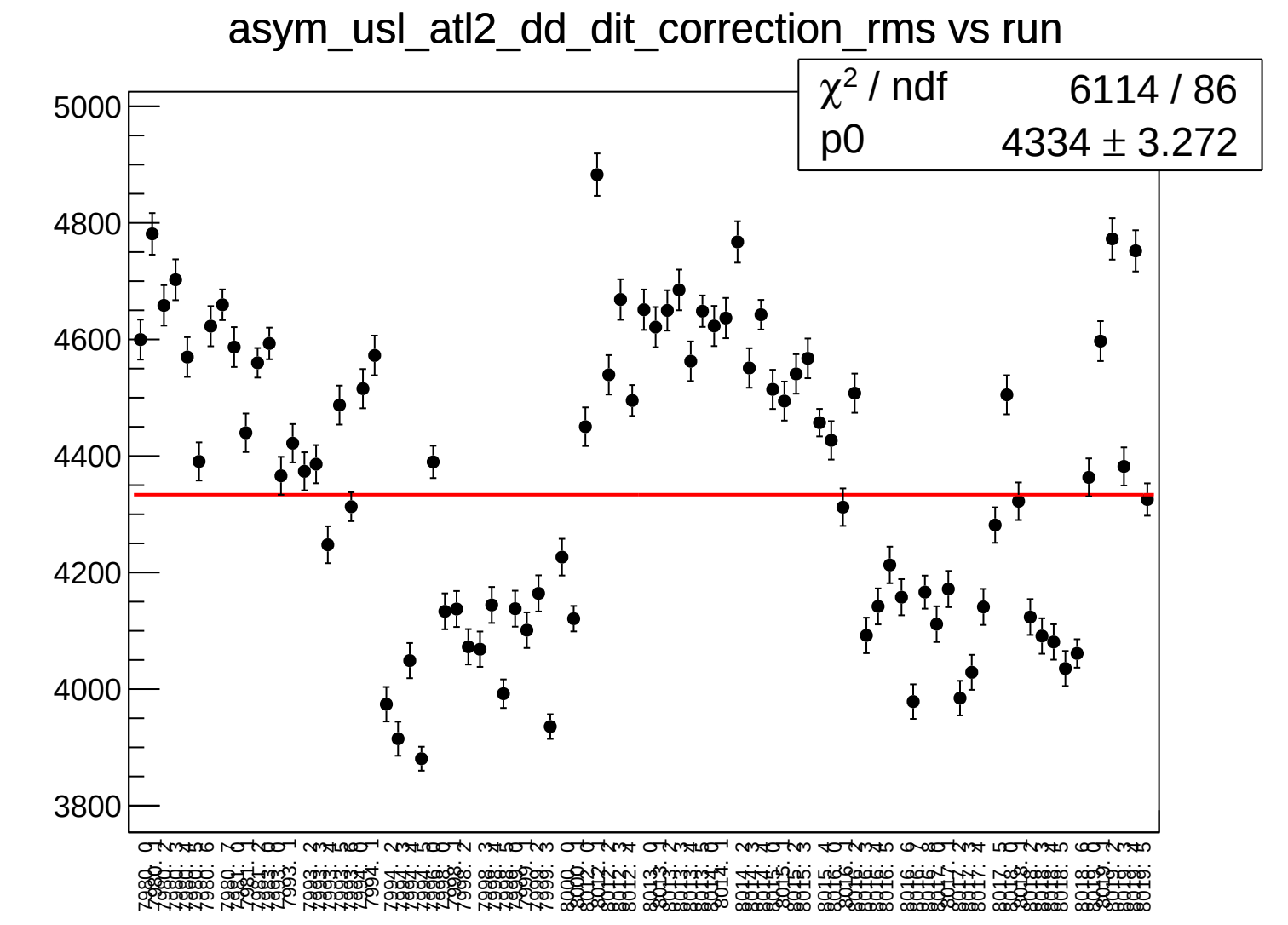

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 81.75 / 86
p0 −967.2 ± 1062
pull
Entries 87
Mean 26.3
Std Dev 0

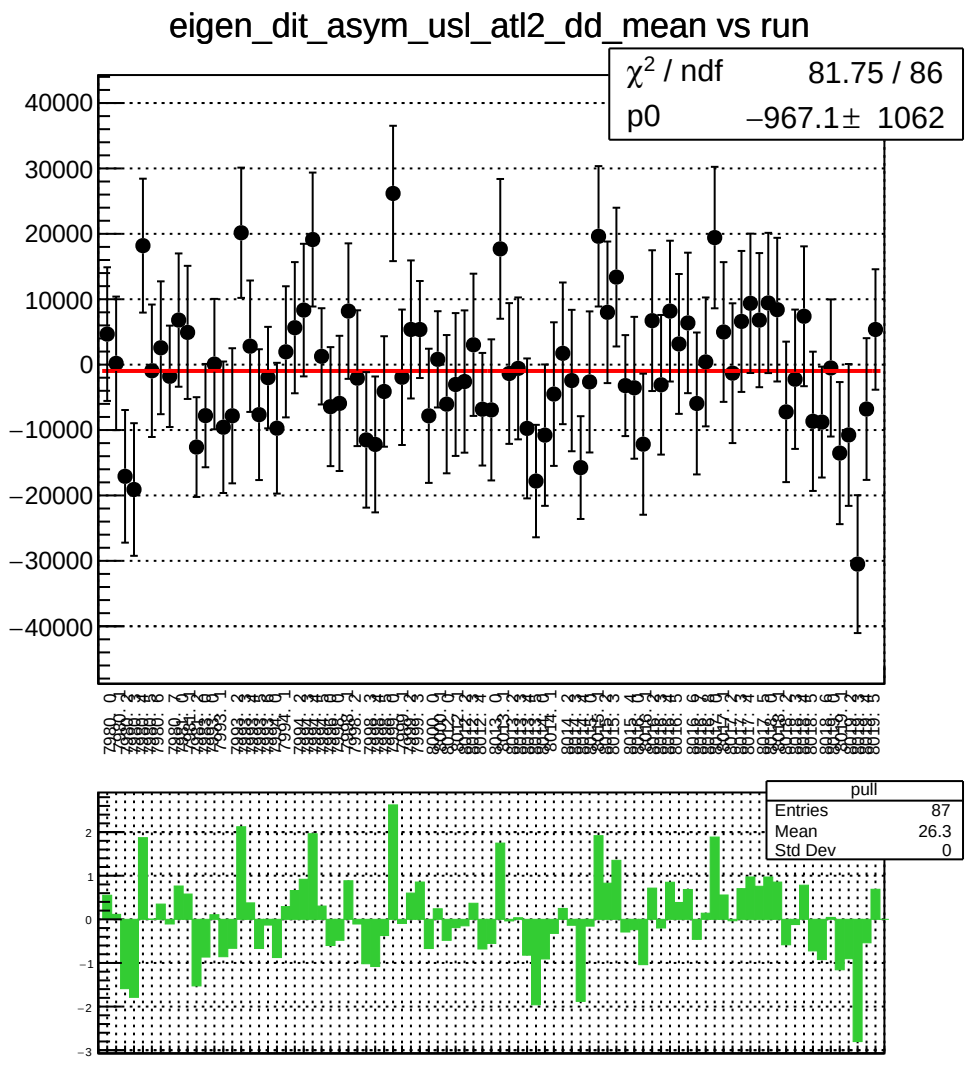

pull1D
Entries 87
Mean 0.02199
Std Dev 0.9691

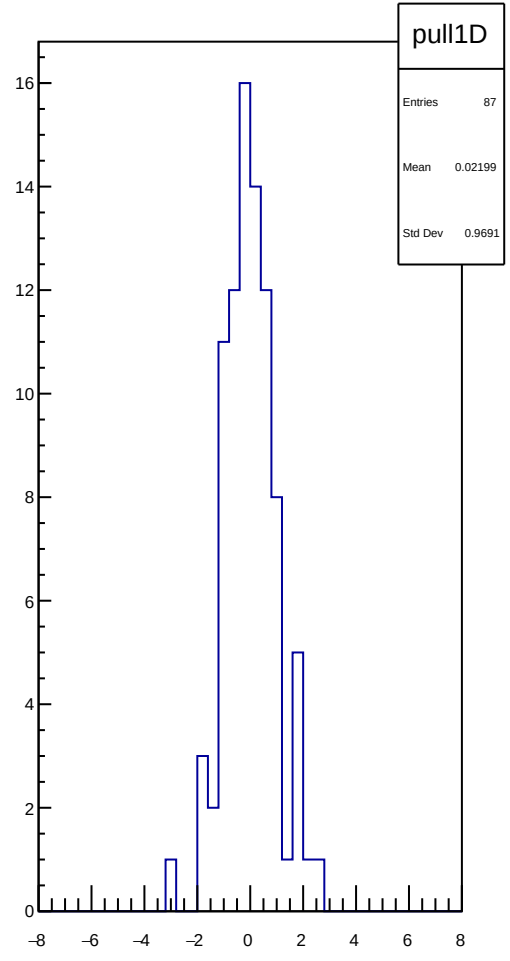

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1520 / 86
p0 996.1 ± 0.751
1060
1040
1020
1000
980
960
940

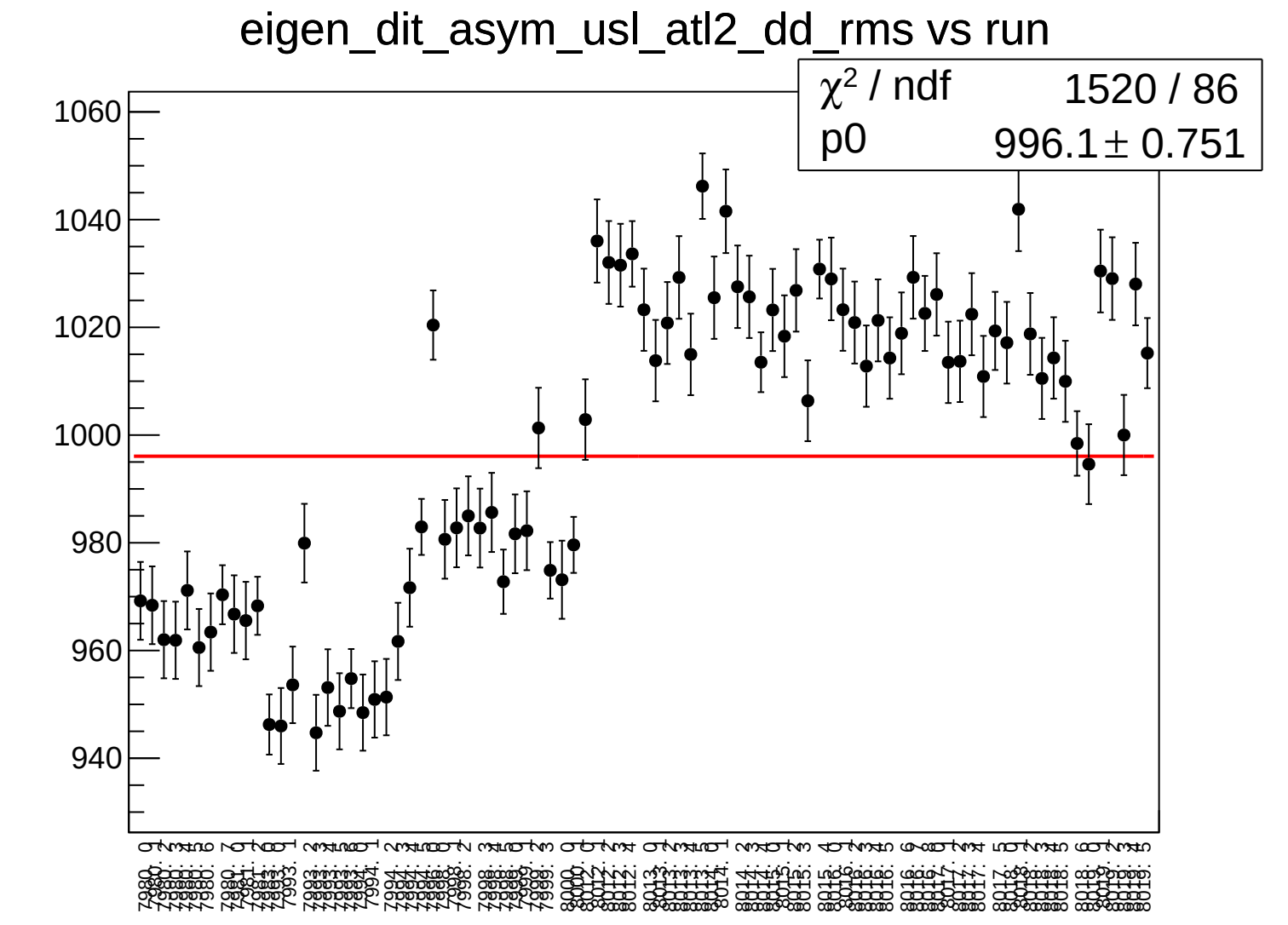

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.78 / 86
p0 9296 ± 4627
200
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −0.8034
Std Dev 60.75
3
2
1
0
−1
−2

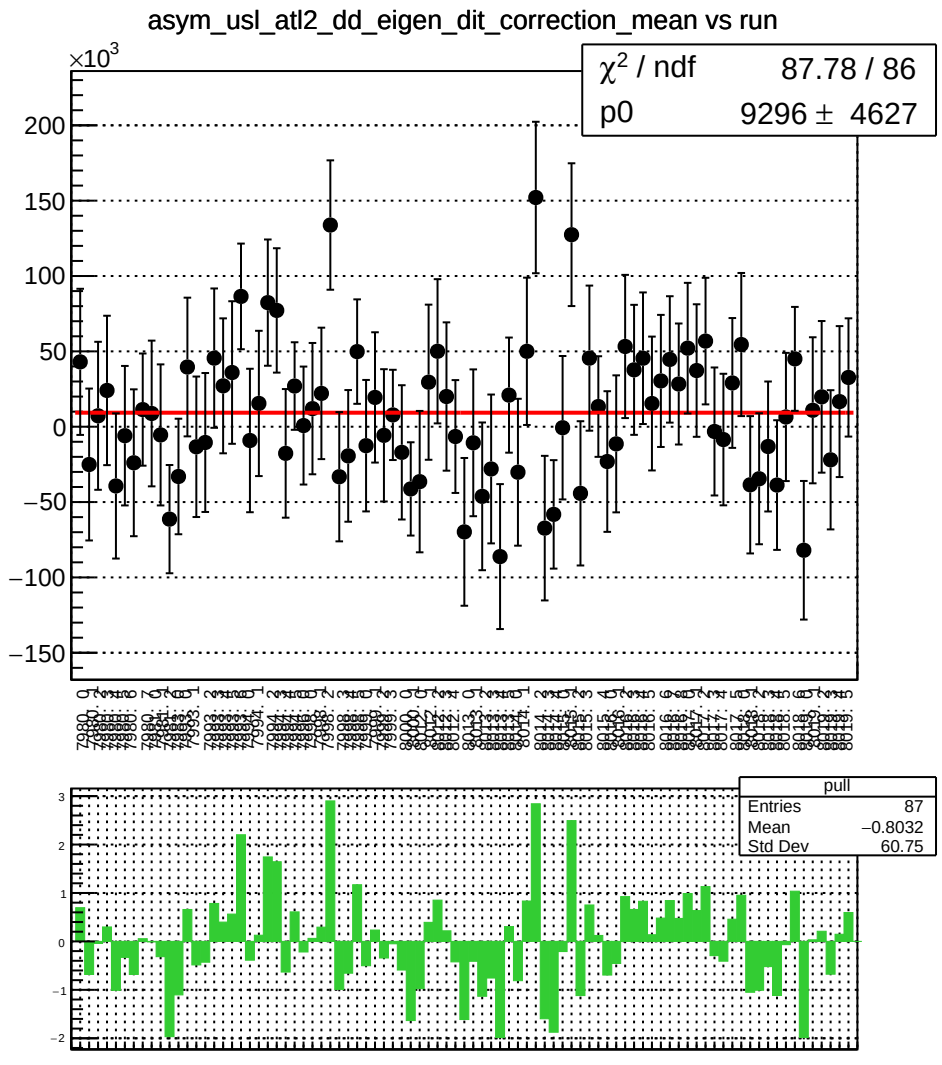

pull1D
Entries 87
Mean −0.005052
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

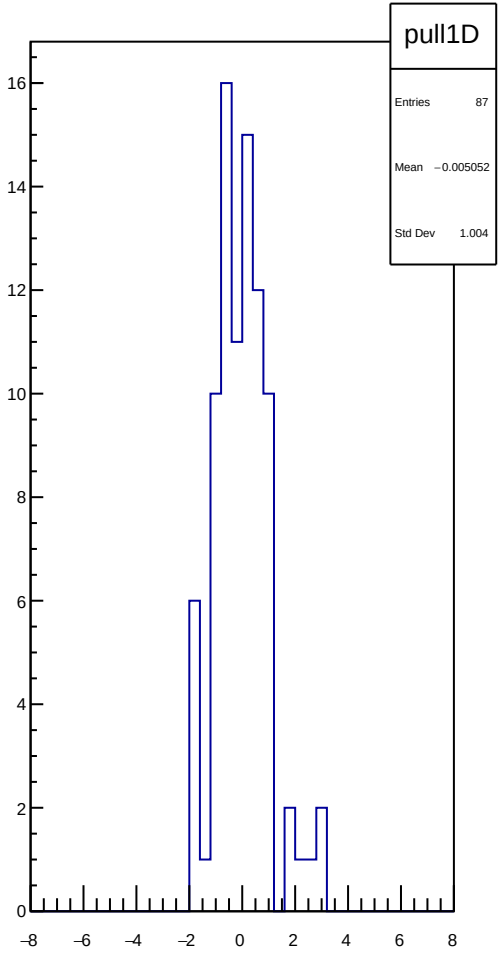

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 6114 / 86
p0 4334 ± 3.272
5000
4800
4600
4400
4200
4000
3800

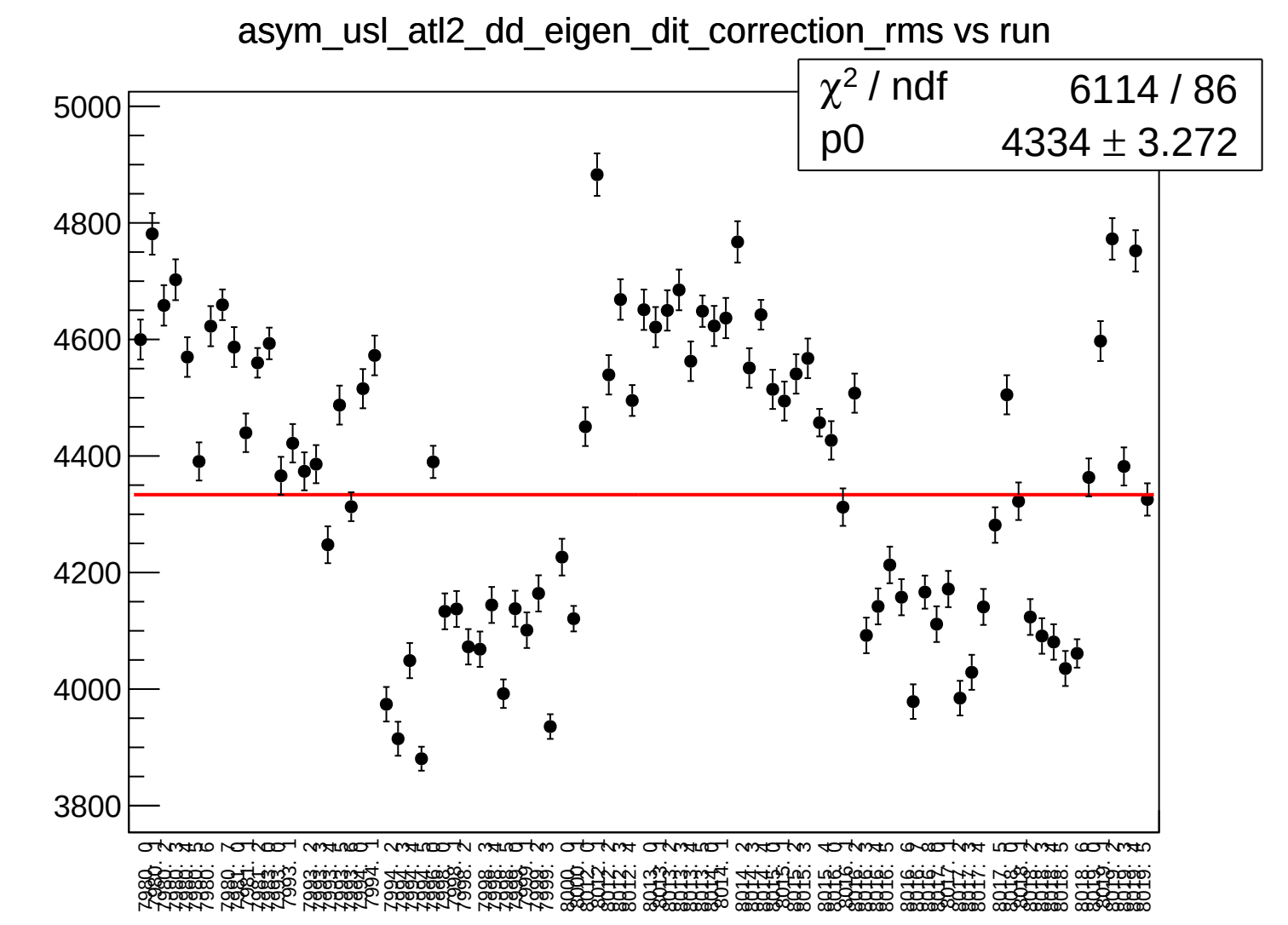

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 81.75 / 86
p0 −967.1± 1062
pull
Entries 87
Mean 26.3
Std Dev 0

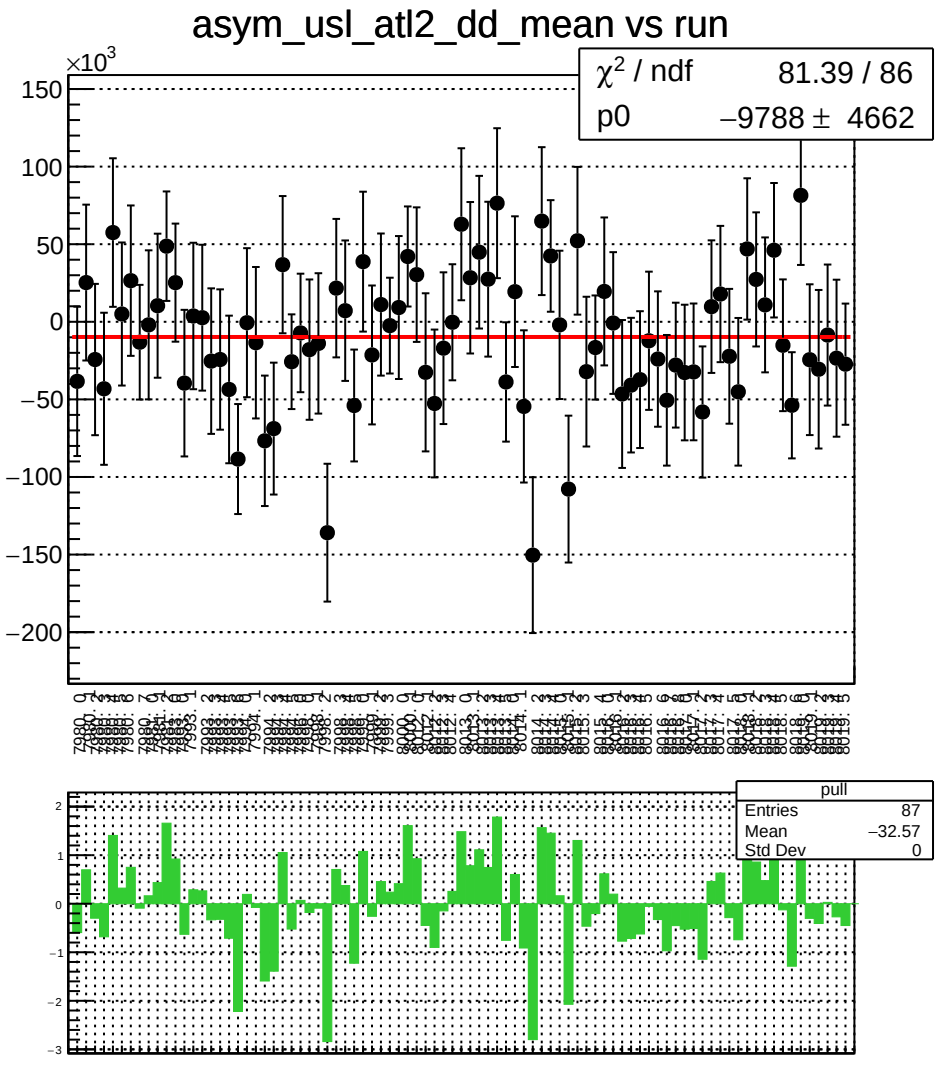

pull1D
Entries 87
Mean 0.02199
Std Dev 0.9691

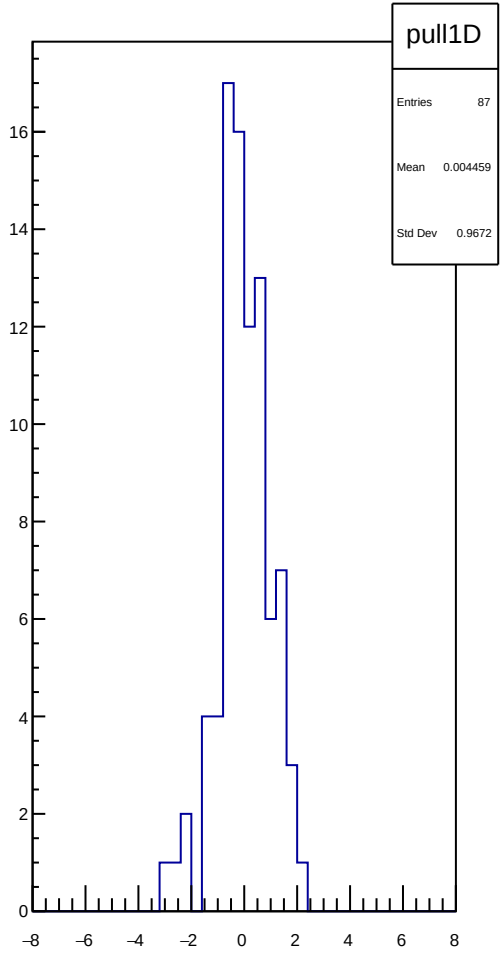

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1520 / 86
p0 996.1 ± 0.751
1060
1040
1020
1000
980
960
940

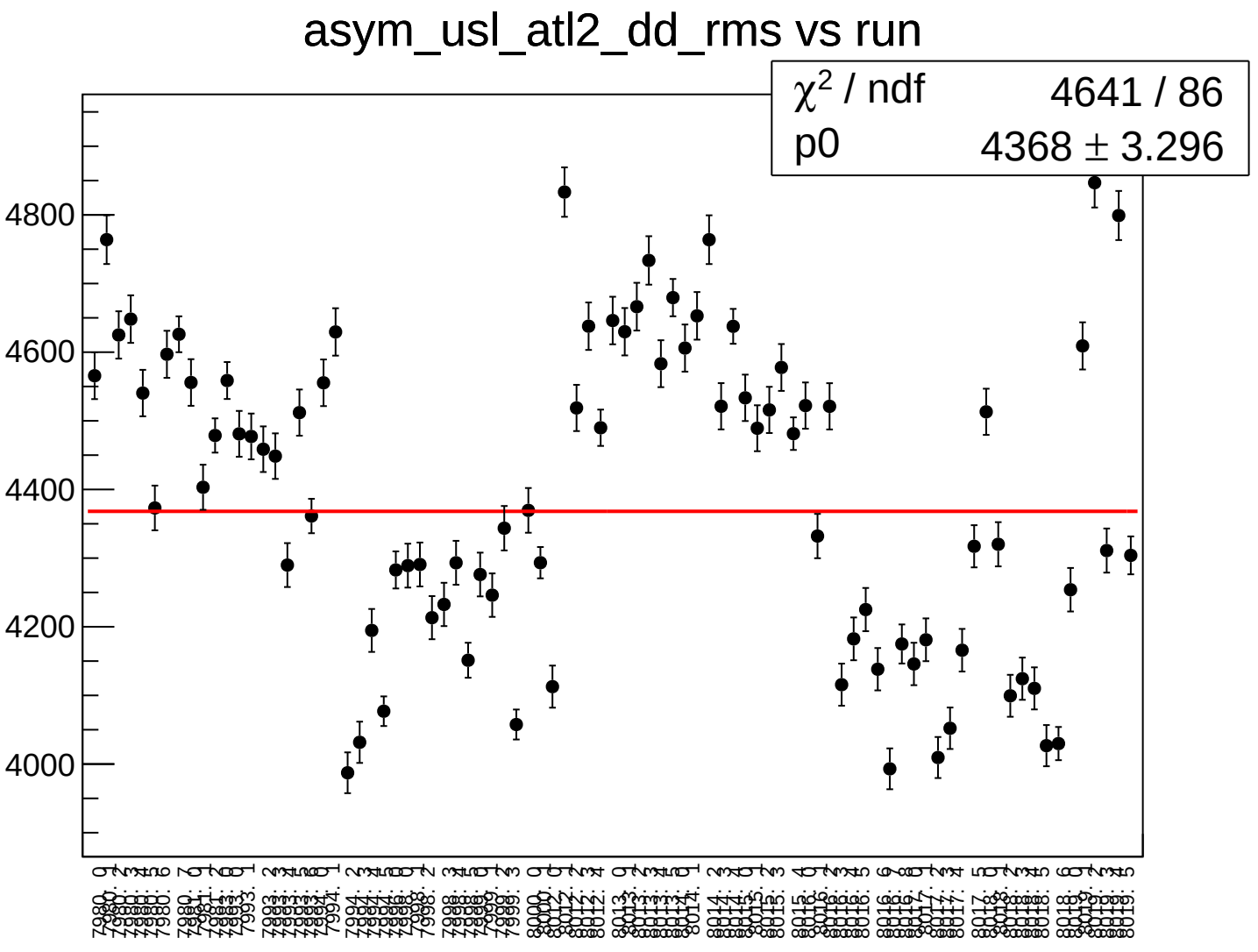

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.78 / 86
p0 9296 ± 4627
pull
Entries 87
Mean −0.8032
Std Dev 60.75

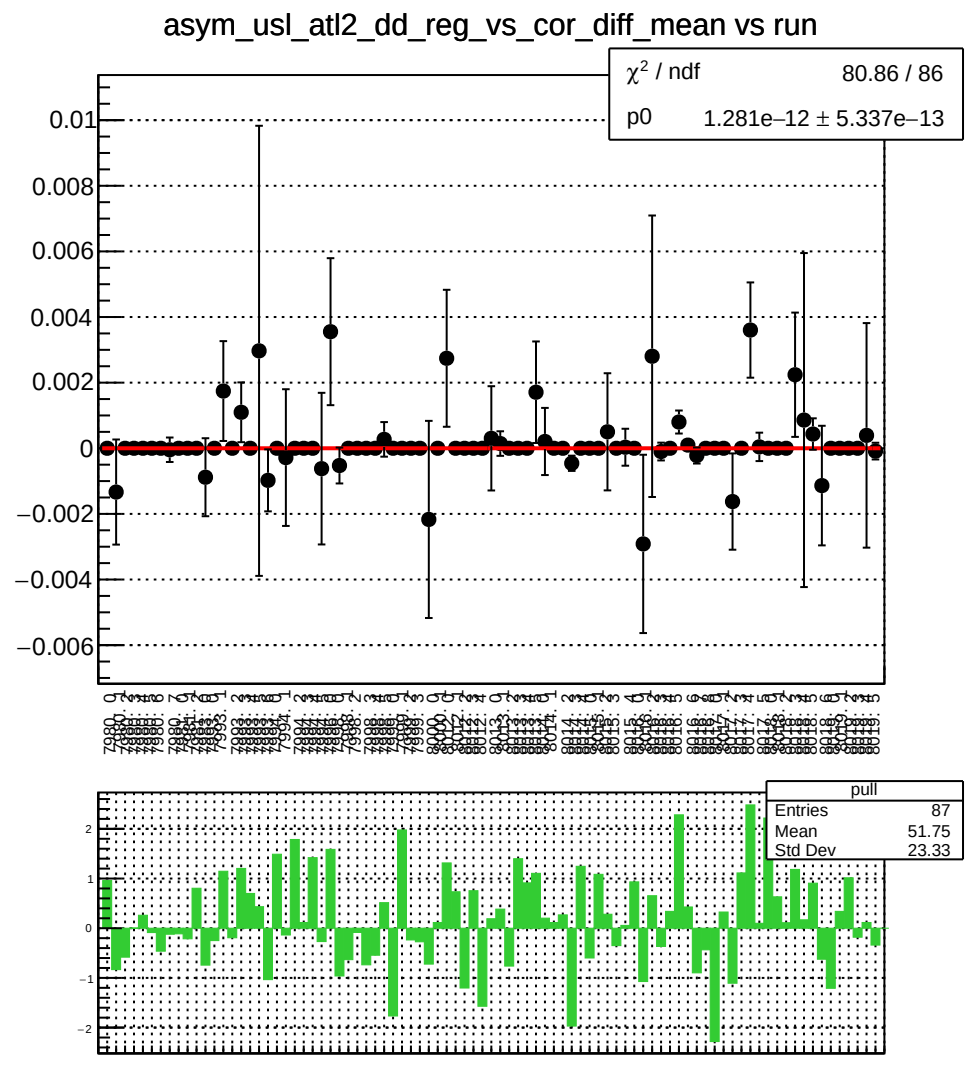

pull1D
Entries 87
Mean −0.005052
Std Dev 1.004

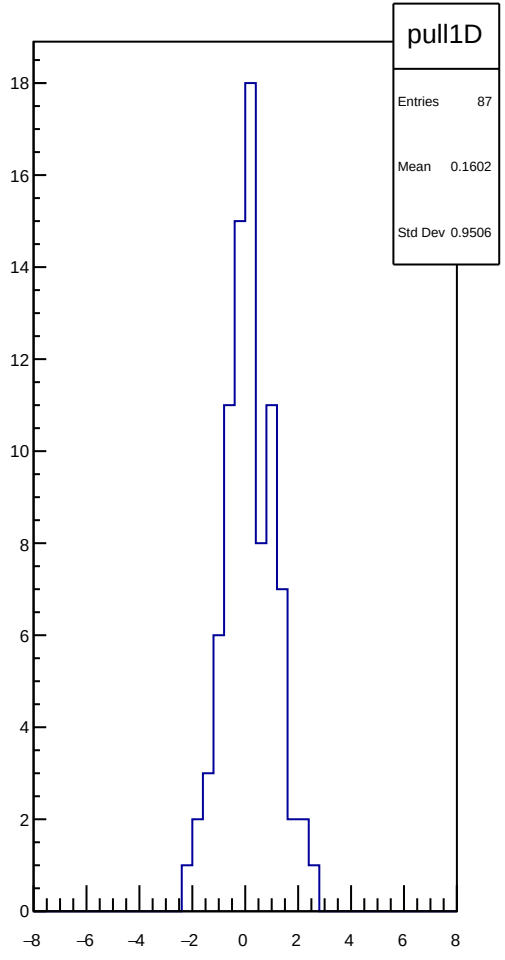

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6114 / 86
p0 4334 ± 3.272
5000
4800
4600
4400
4200
4000
3800

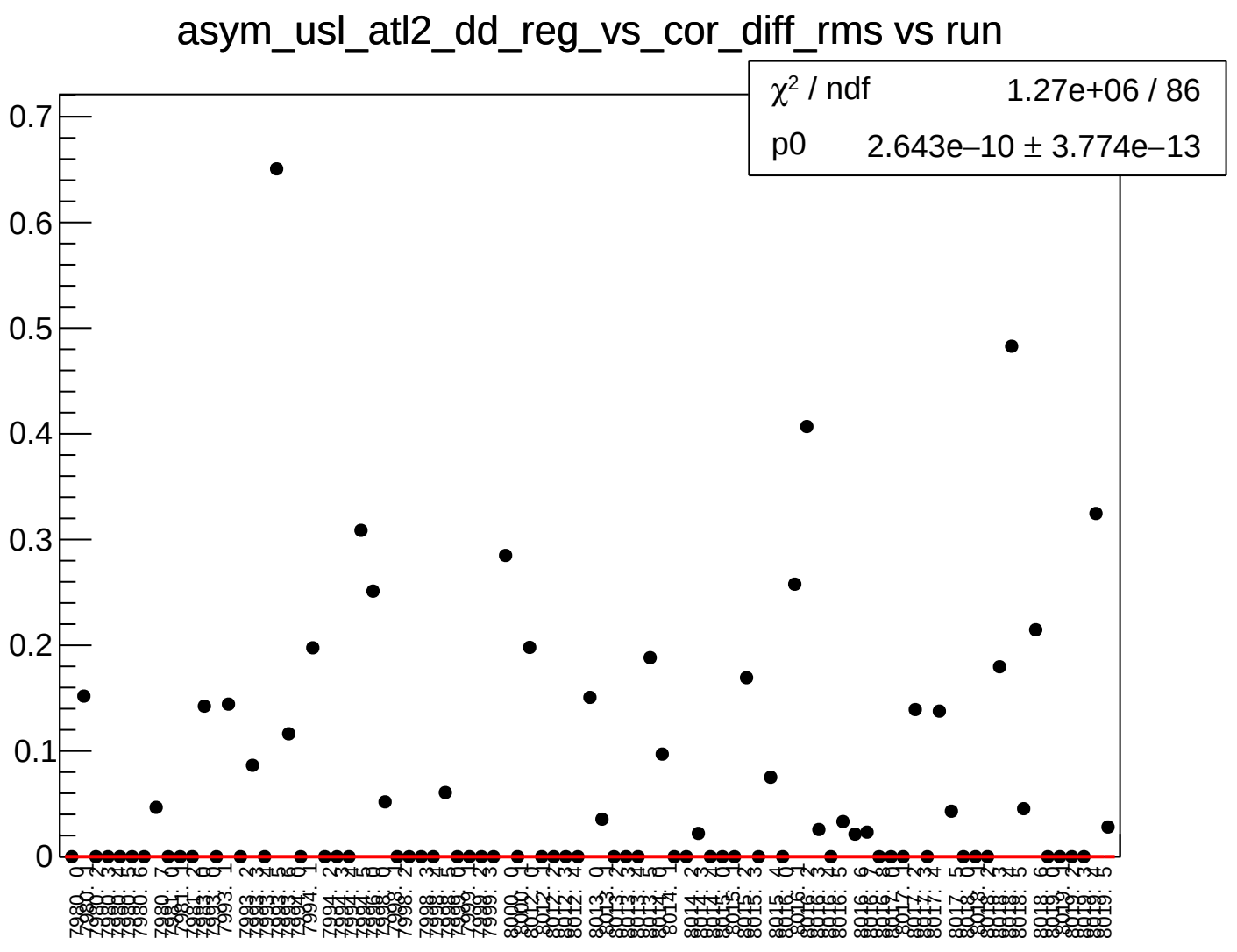

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 81.39 / 86
p0 −9788 ± 4662
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −32.57
Std Dev 0
2
1
0
−1
−2
−3

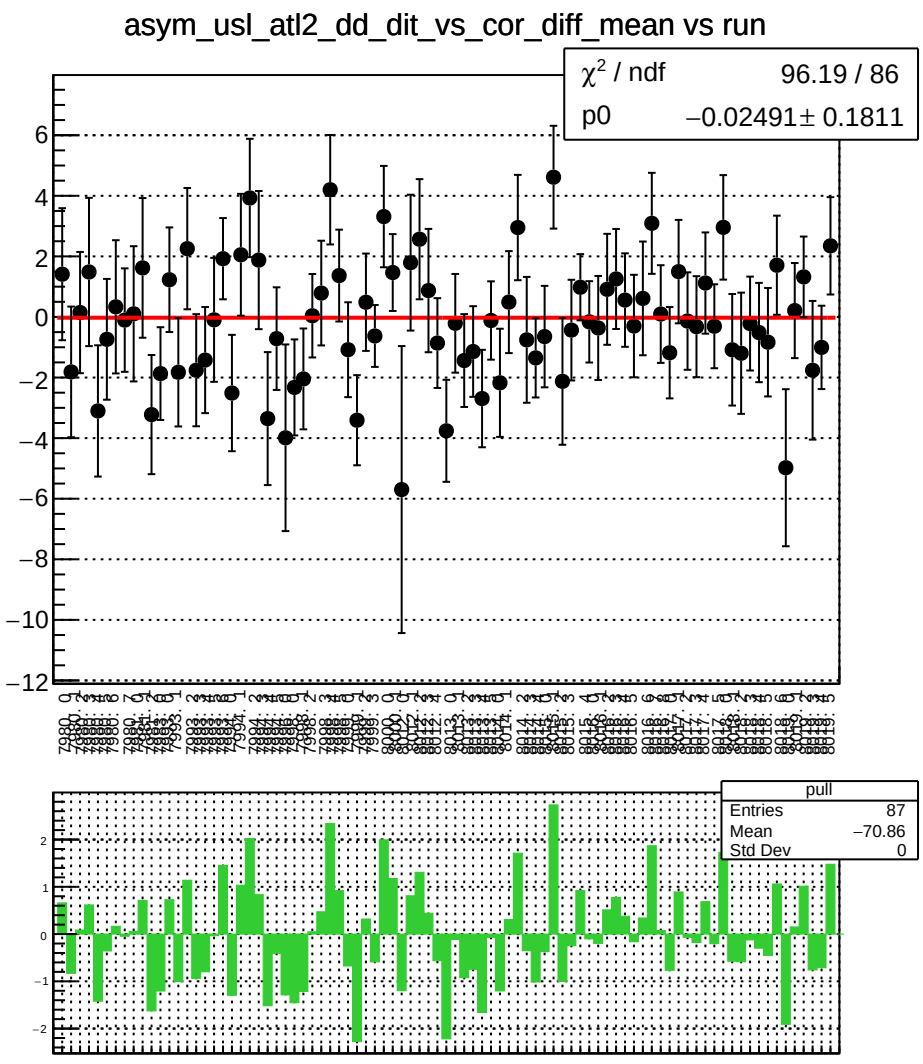

pull1D
Entries 87
Mean 0.004459
Std Dev 0.9672
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

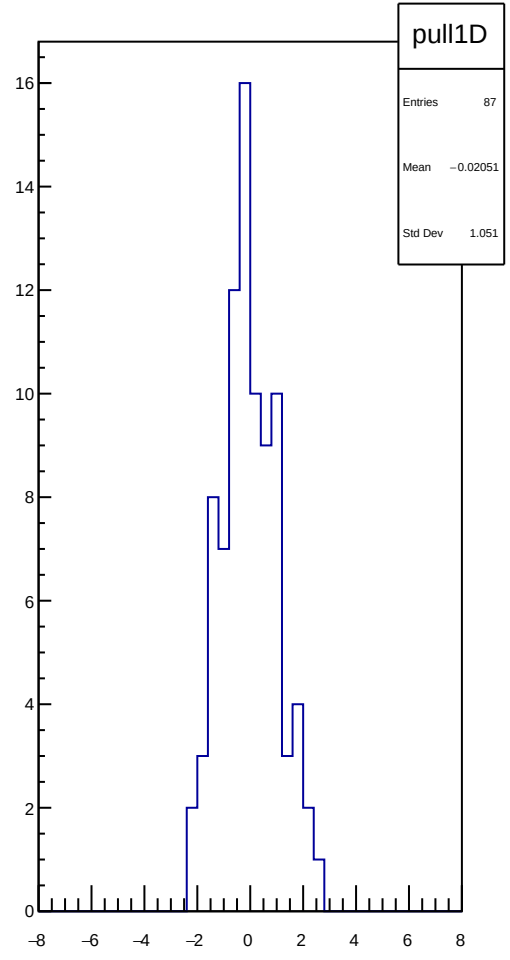

asym_usl_atl2_dd_rms vs run
χ² / ndf 4641 / 86
p0 4368 ± 3.296
4800
4600
4400
4200
4000

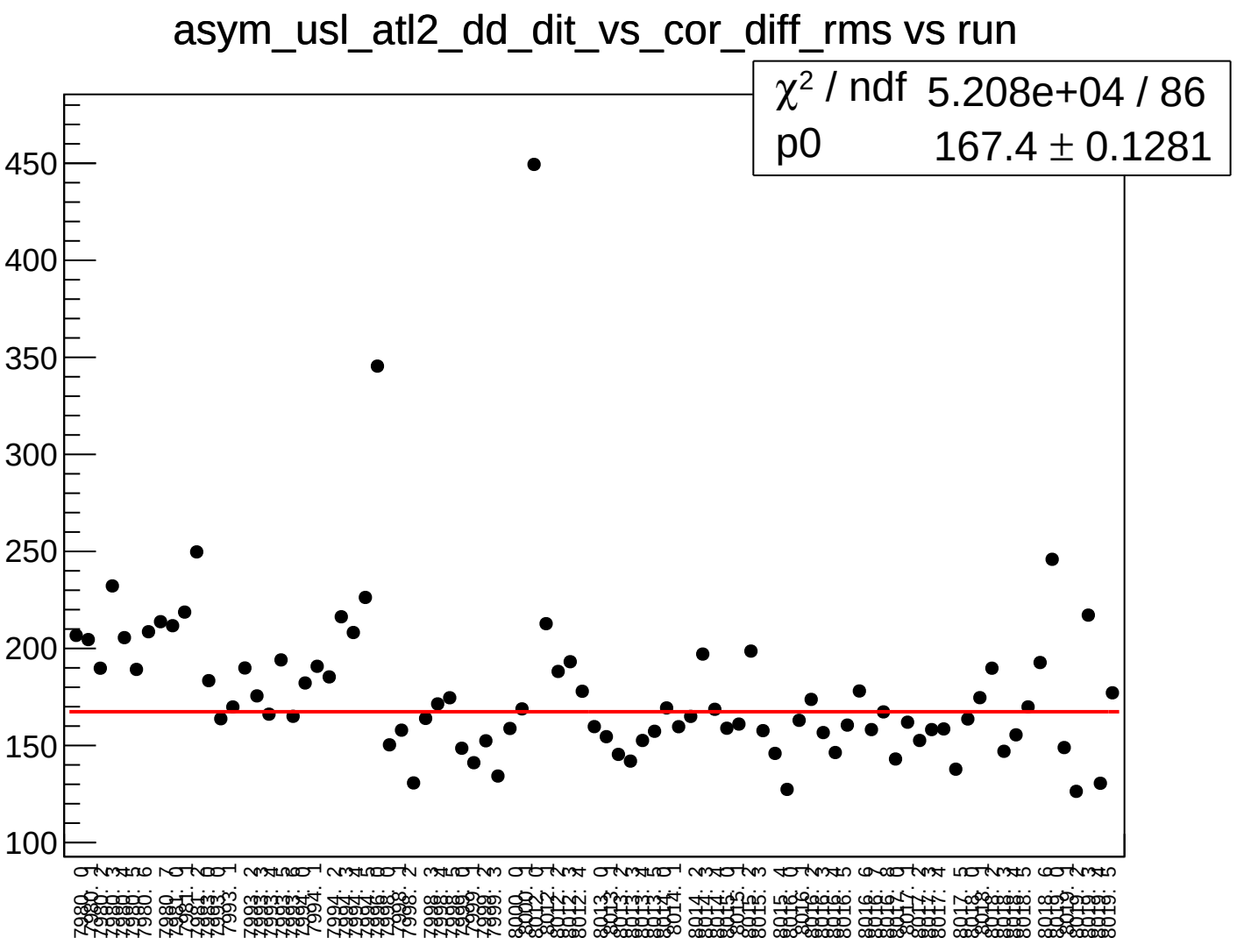

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.86 / 86
p0 1.281e−12 ± 5.337e−13
pull
Entries 87
Mean 51.75
Std Dev 23.33

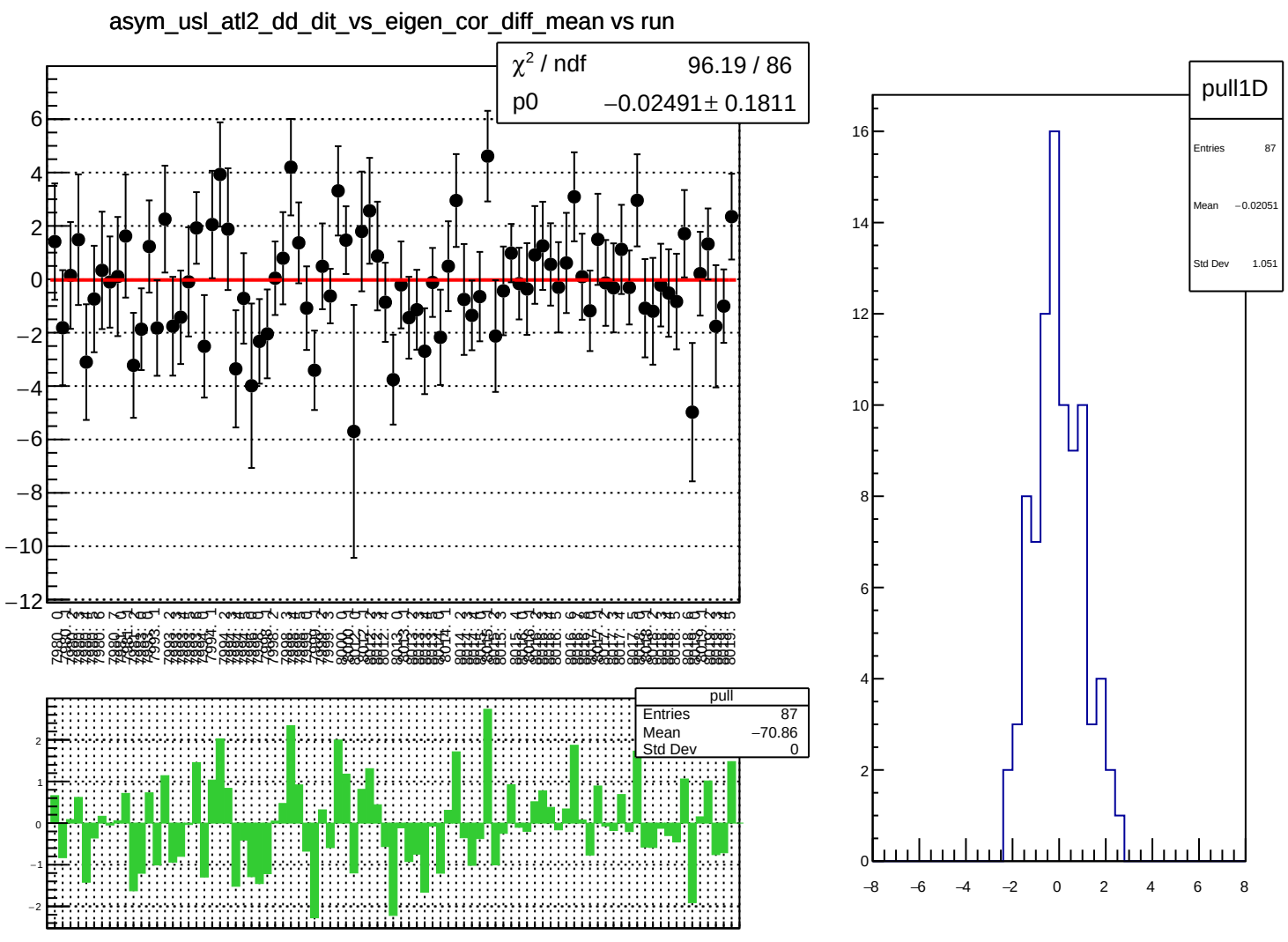

pull1D
Entries 87
Mean 0.1602
Std Dev 0.9506

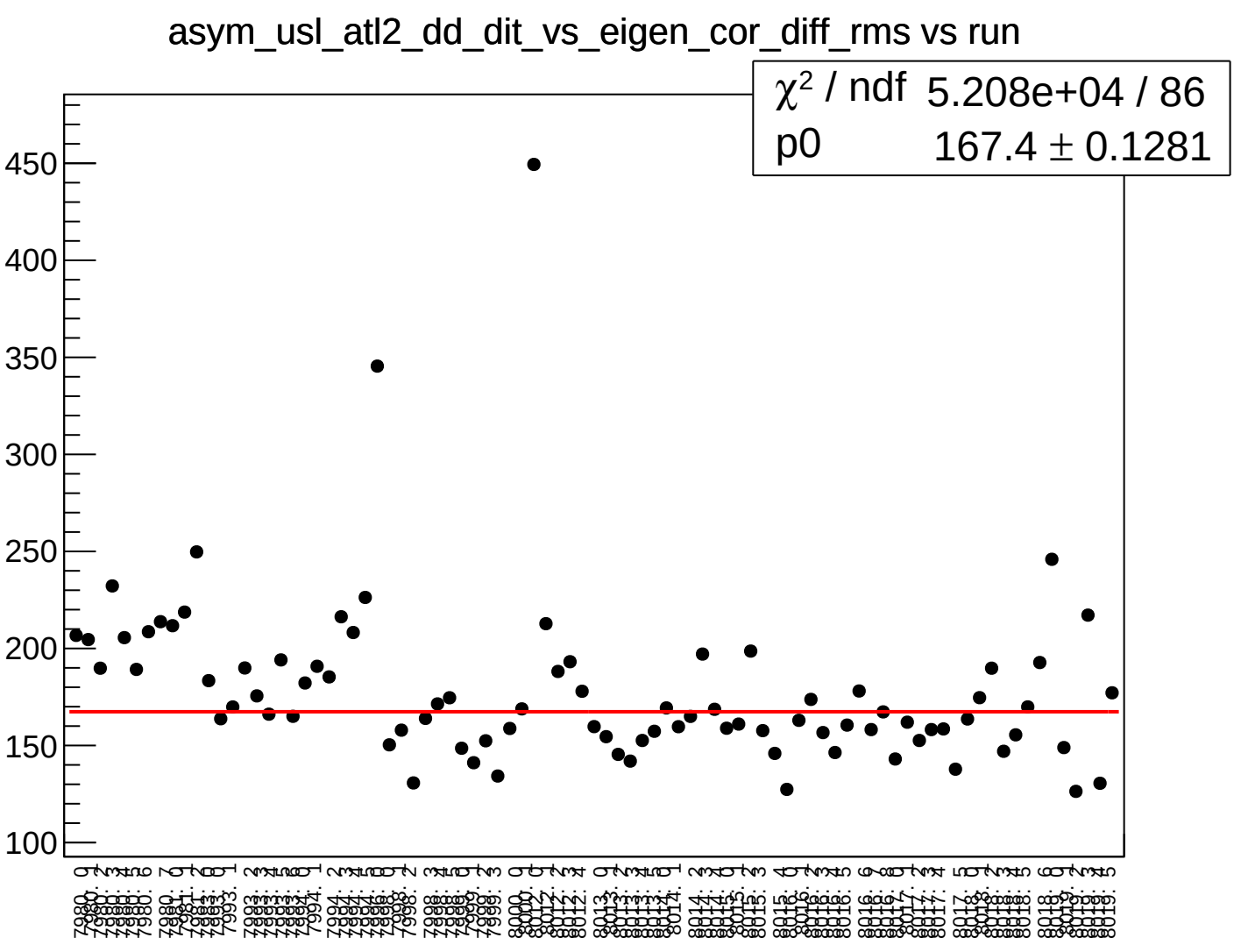

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.27e+06 / 86
p0 2.643e−10 ± 3.774e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

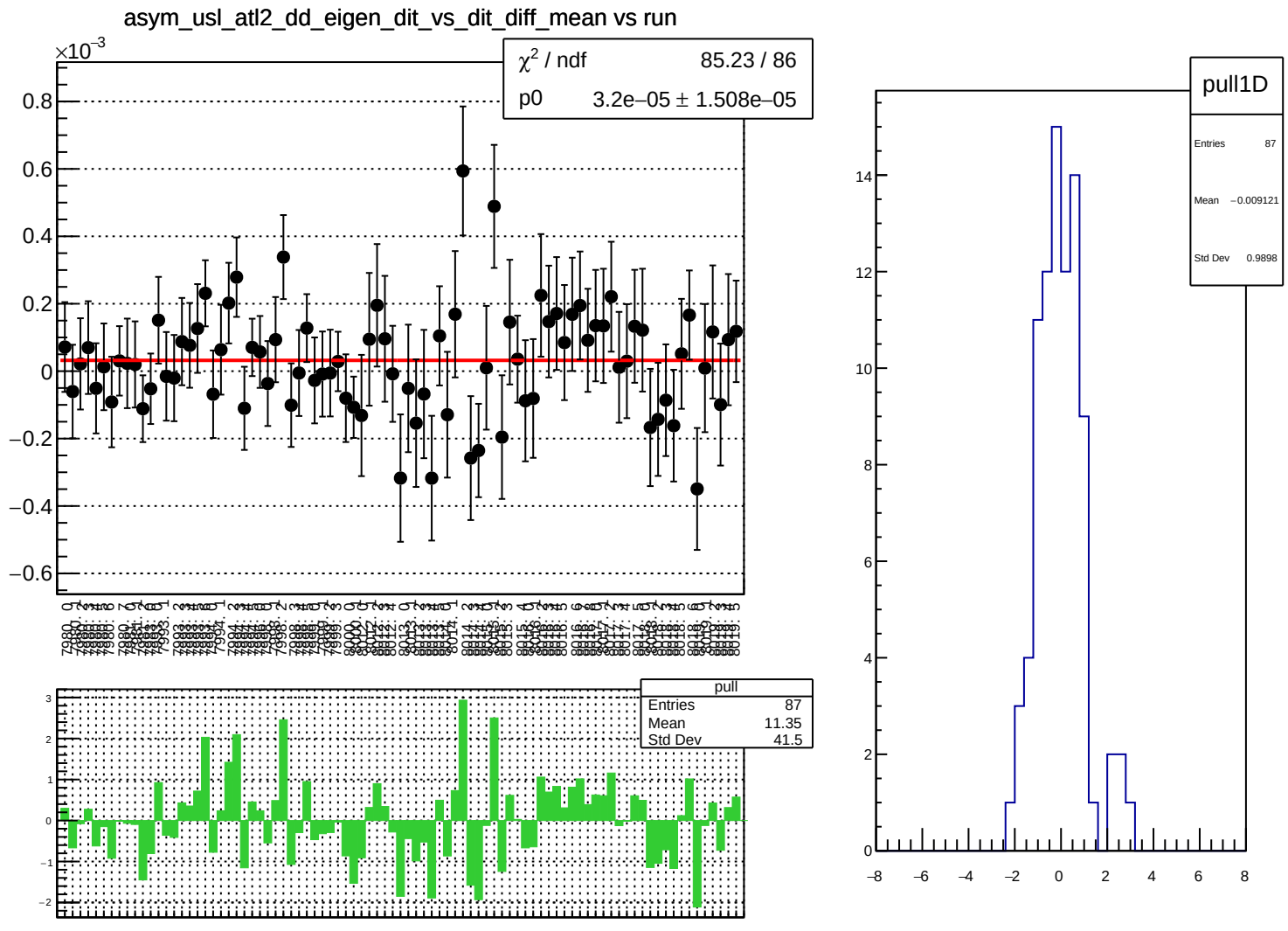

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.19 / 86
p0 −0.02491 ± 0.1811
pull
Entries 87
Mean −70.86
Std Dev 0

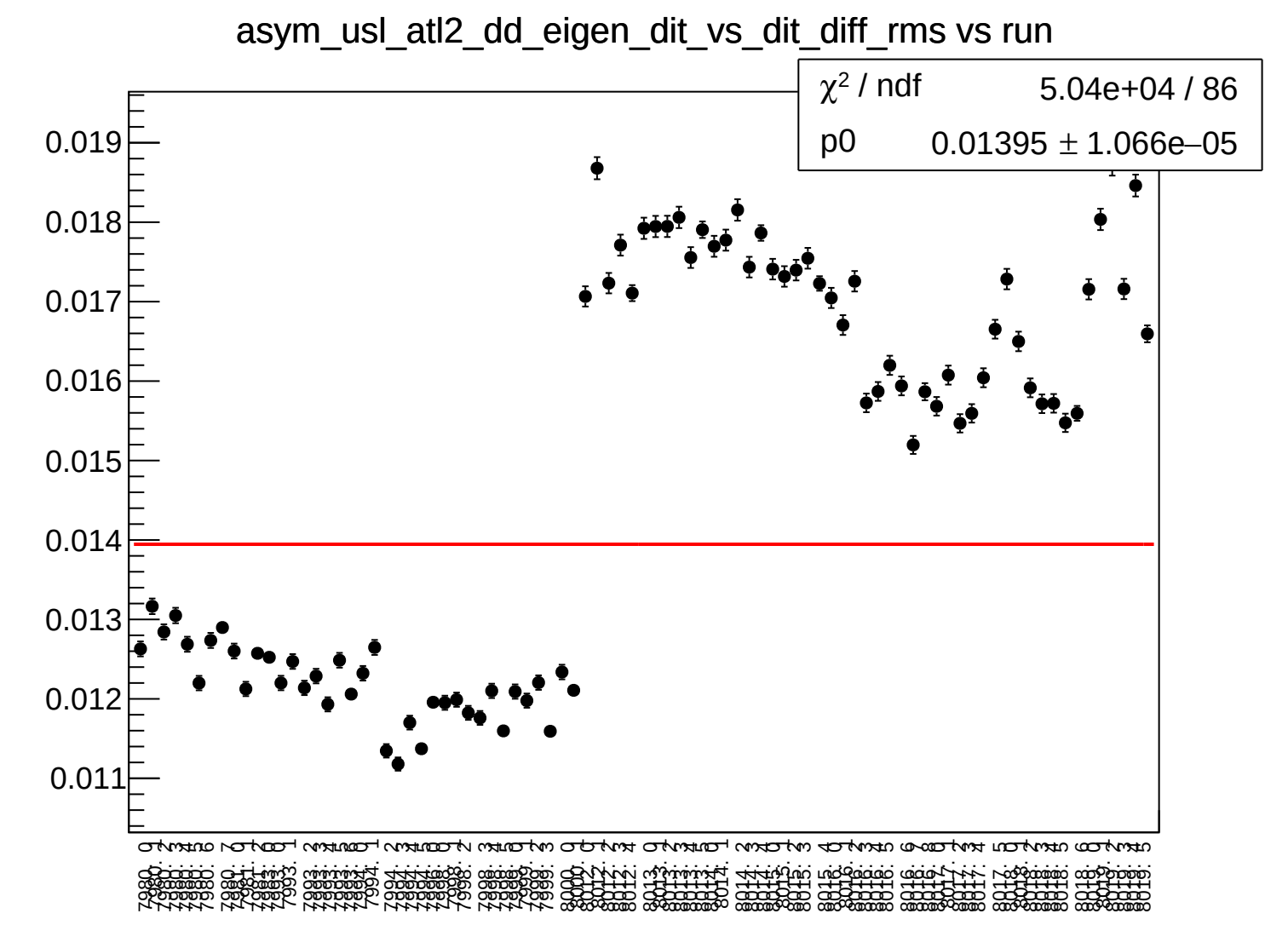

pull1D
Entries 87
Mean −0.02051
Std Dev 1.051

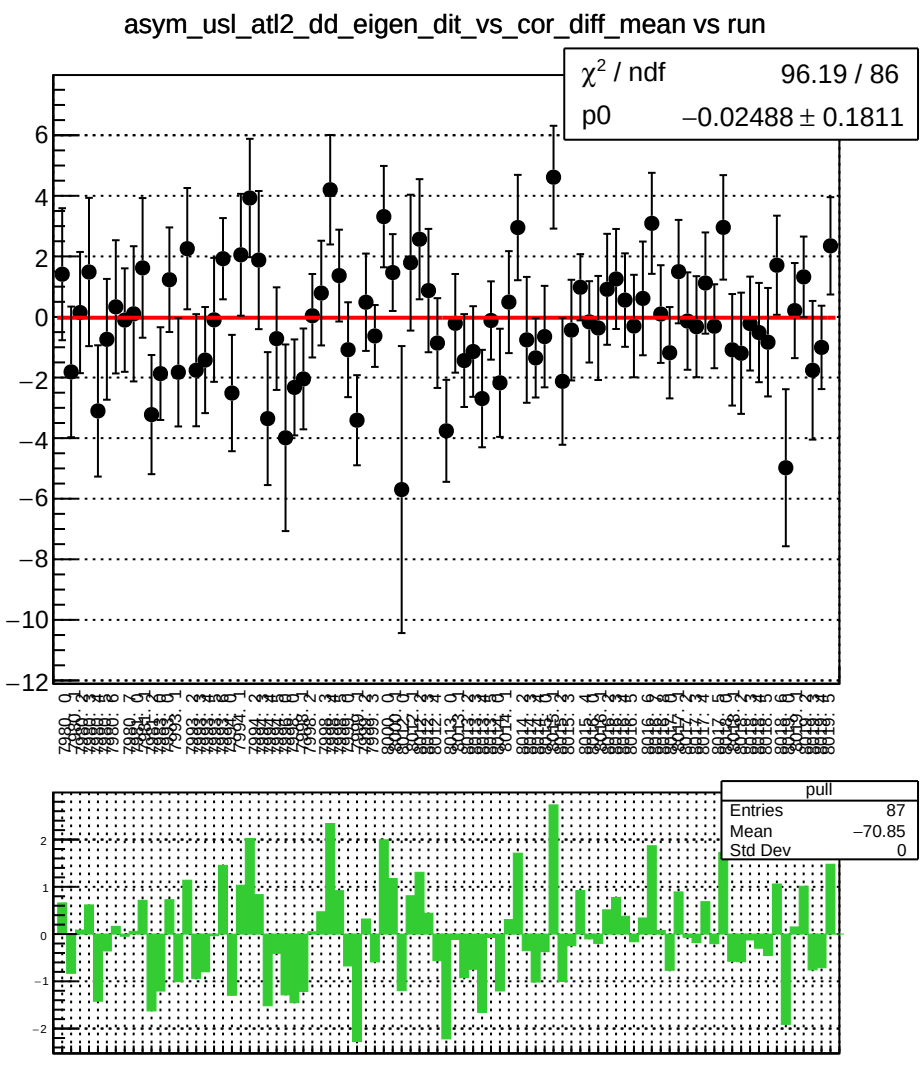

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.208e+04 / 86
p0 167.4 ± 0.1281
450
400
350
300
250
200
150
100

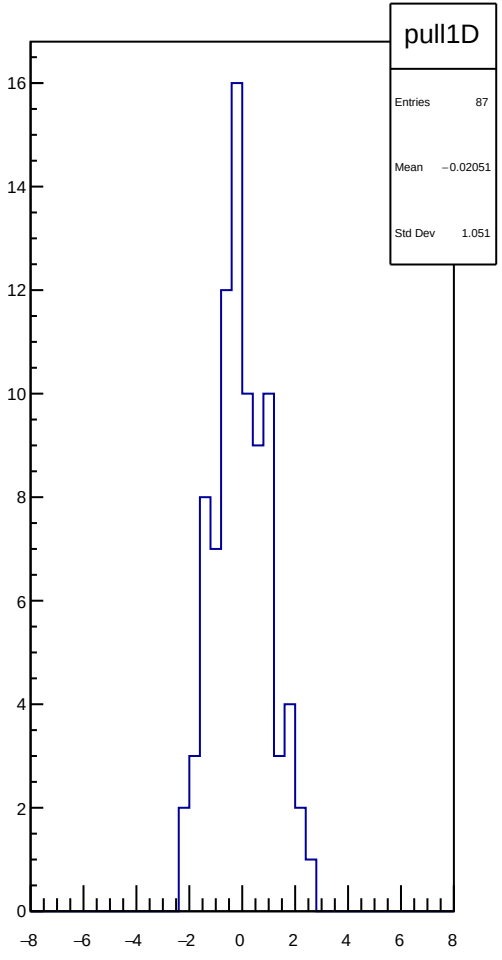

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.19 / 86
p0 −0.02491 ± 0.1811
pull
Entries 87
Mean −70.86
Std Dev 0
pull1D
Entries 87
Mean −0.02051
Std Dev 1.051

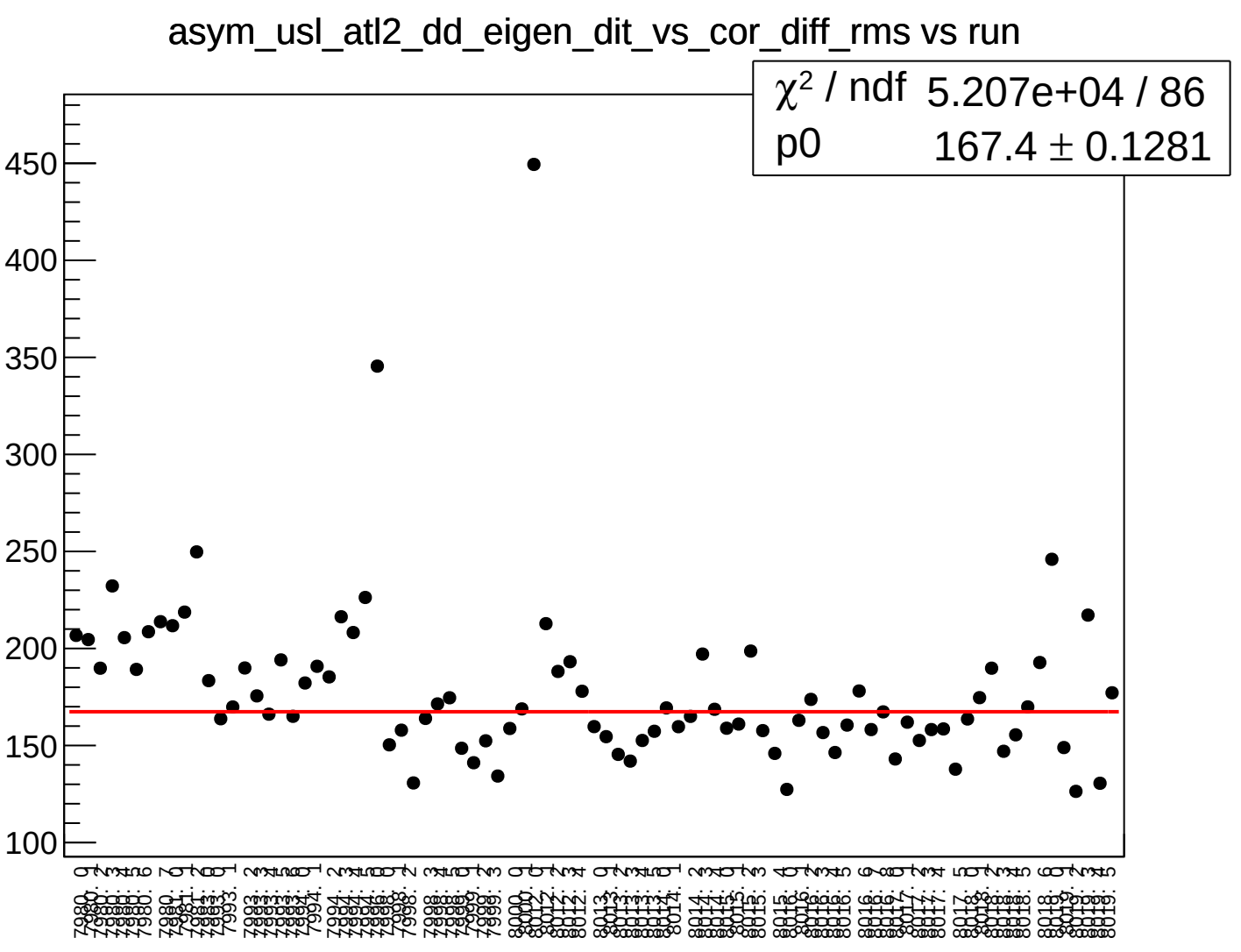

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.208e+04 / 86
p0 167.4 ± 0.1281
450
400
350
300
250
200
150
100

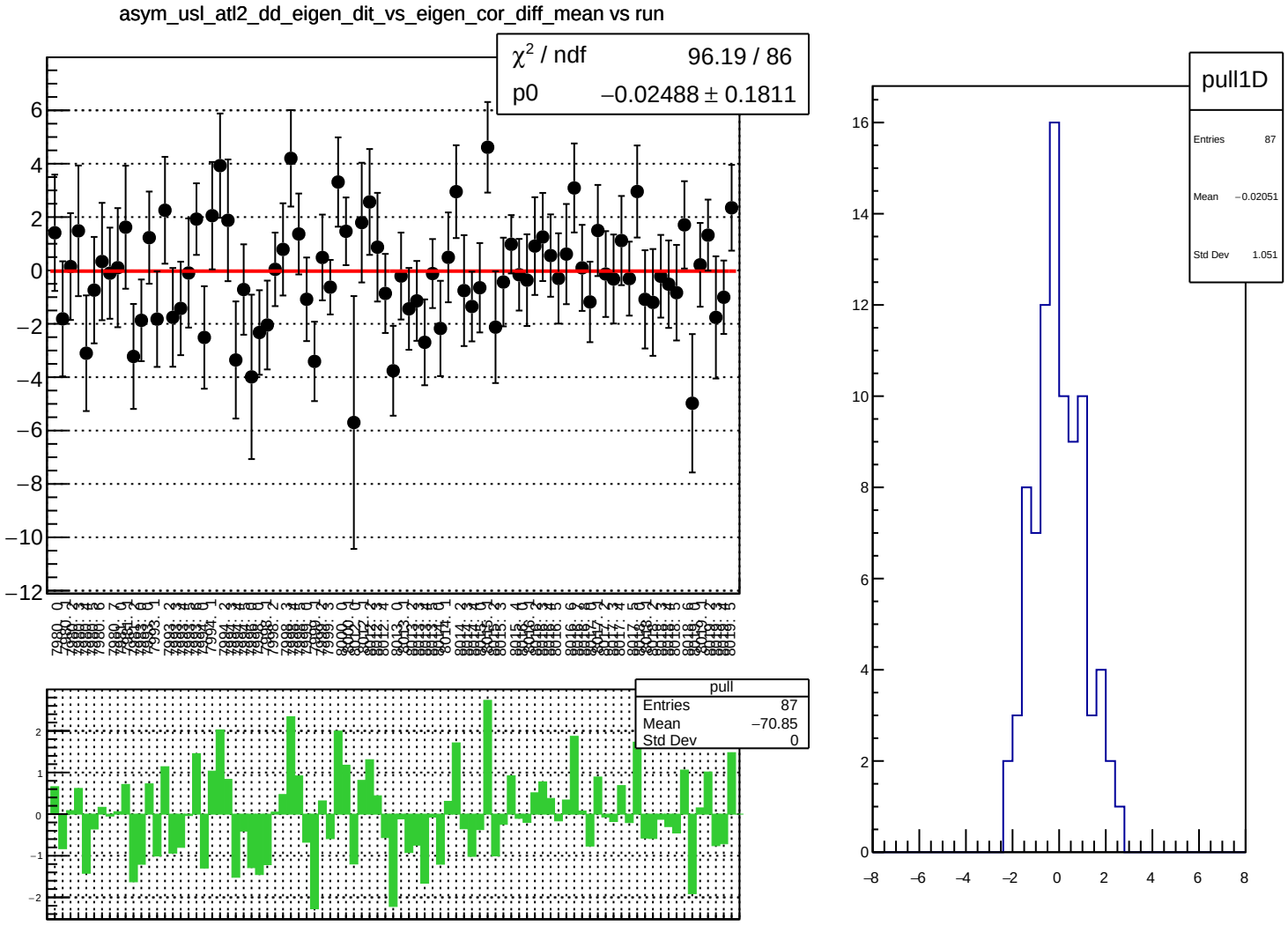

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.23 / 86
p0 3.2e−05 ± 1.508e−05
pull
Entries 87
Mean 11.35
Std Dev 41.5
pull1D
Entries 87
Mean −0.009121
Std Dev 0.9898

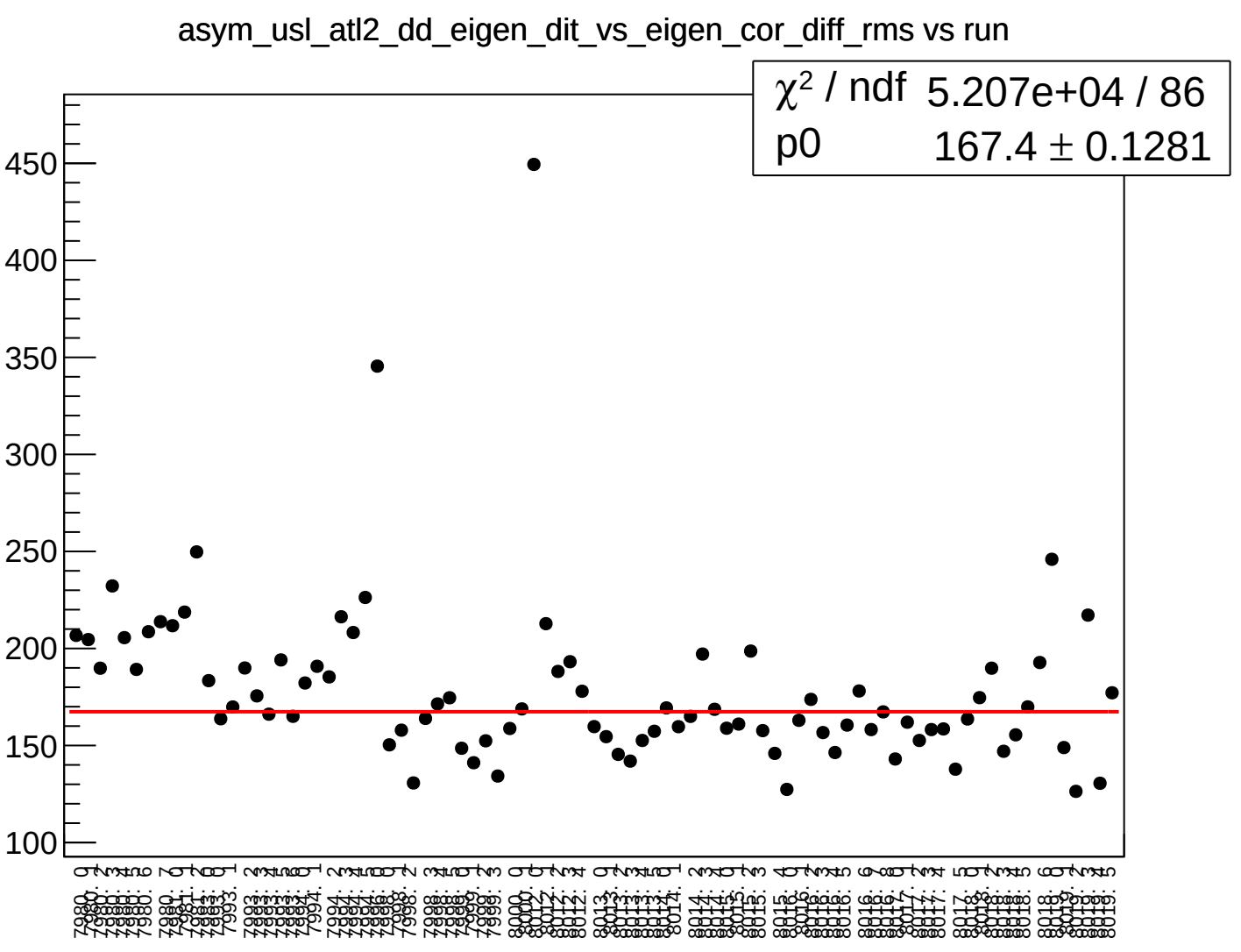

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.04e+04 / 86
p0 0.01395 ± 1.066e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

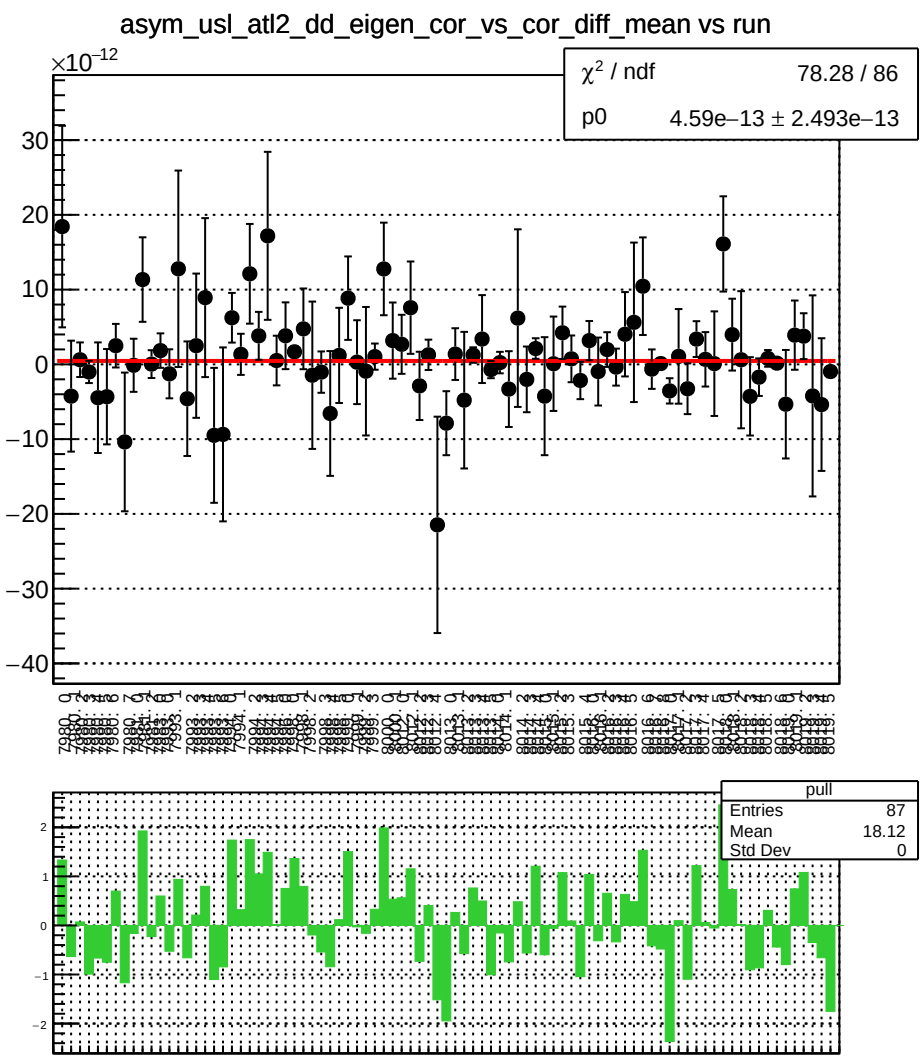

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.19 / 86
p0 −0.02488 ± 0.1811
pull
Entries 87
Mean −70.85
Std Dev 0

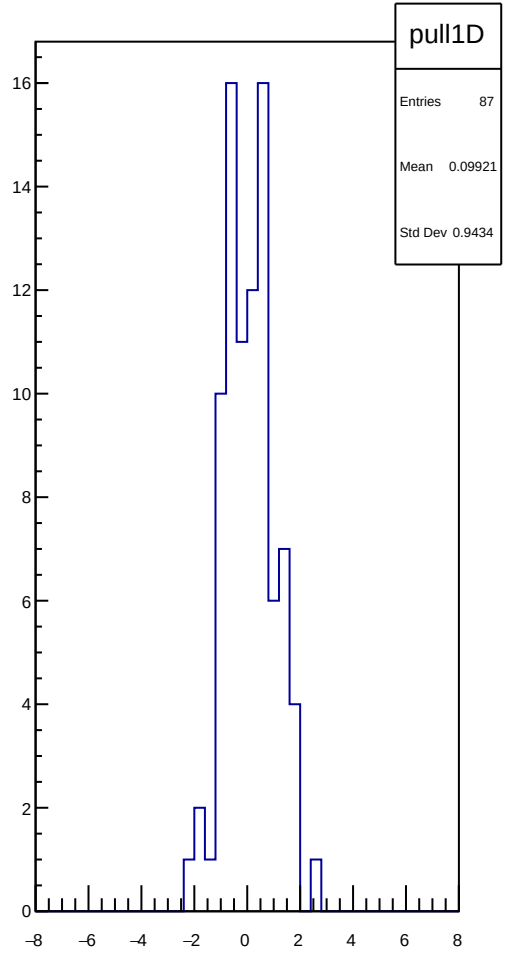

pull1D
Entries 87
Mean −0.02051
Std Dev 1.051

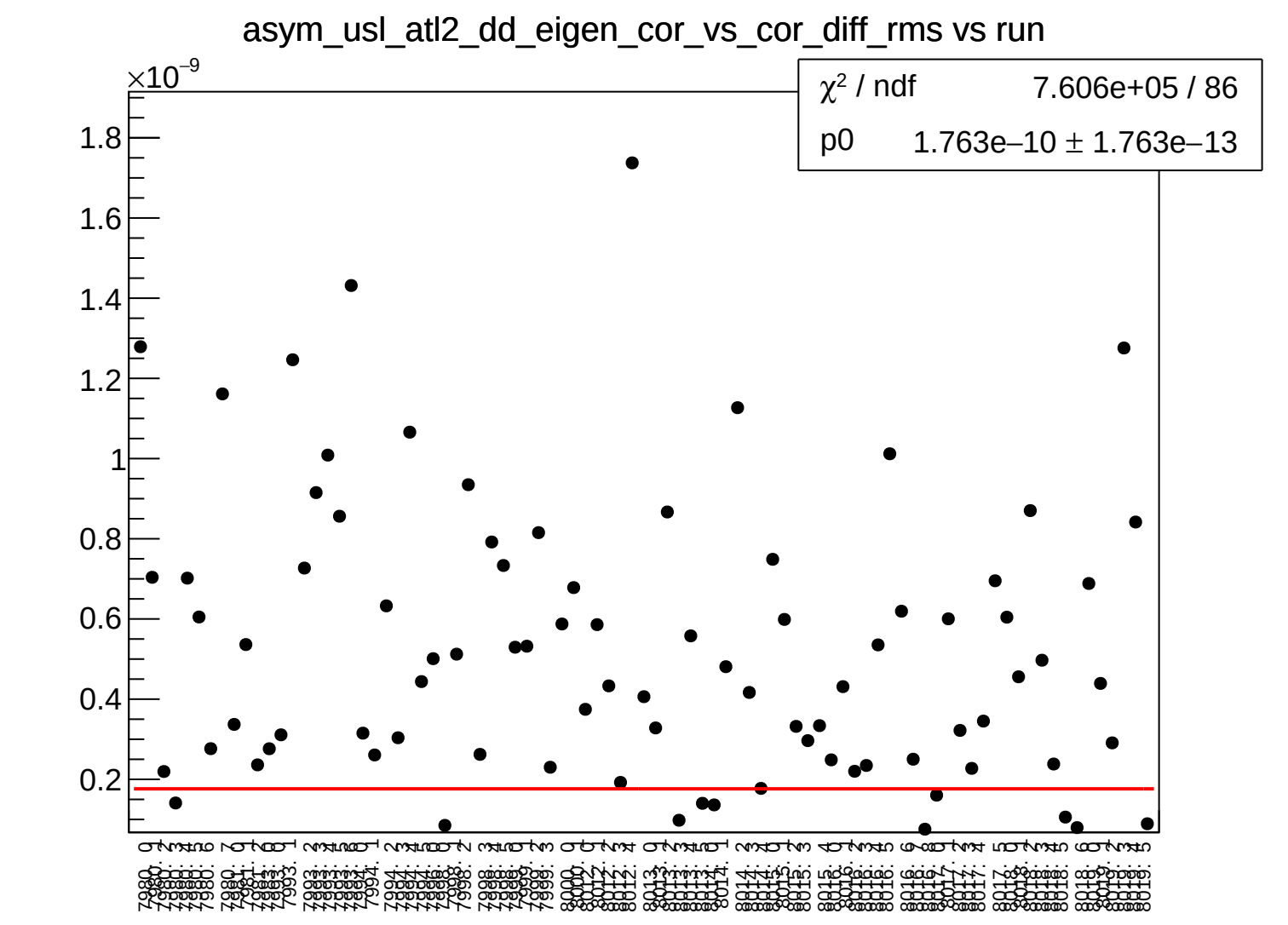

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.207e+04 / 86
p0 167.4 ± 0.1281
450
400
350
300
250
200
150
100

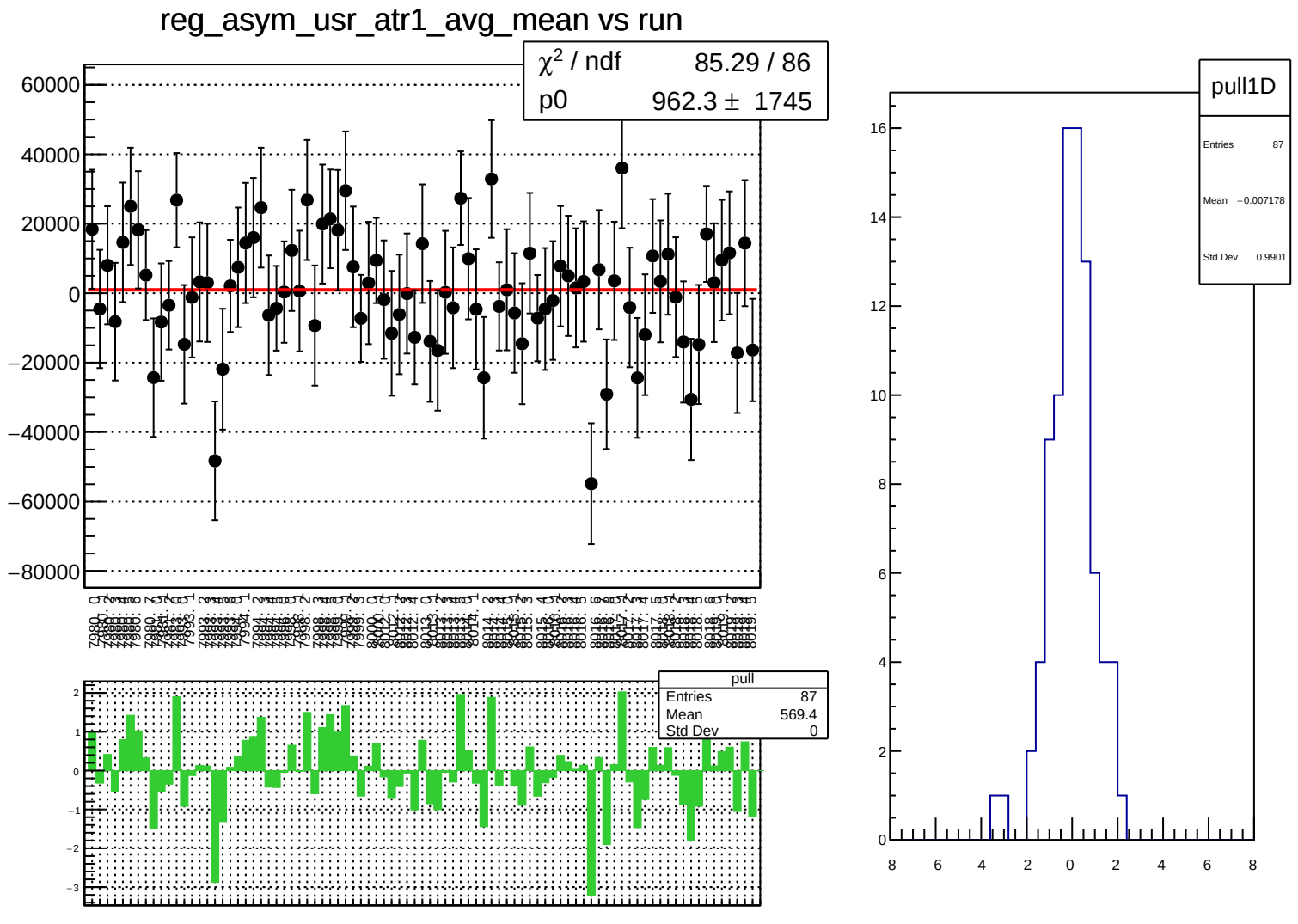

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.19 / 86
p0 −0.02488 ± 0.1811
pull
Entries 87
Mean −70.85
Std Dev 0
pull1D
Entries 87
Mean −0.02051
Std Dev 1.051

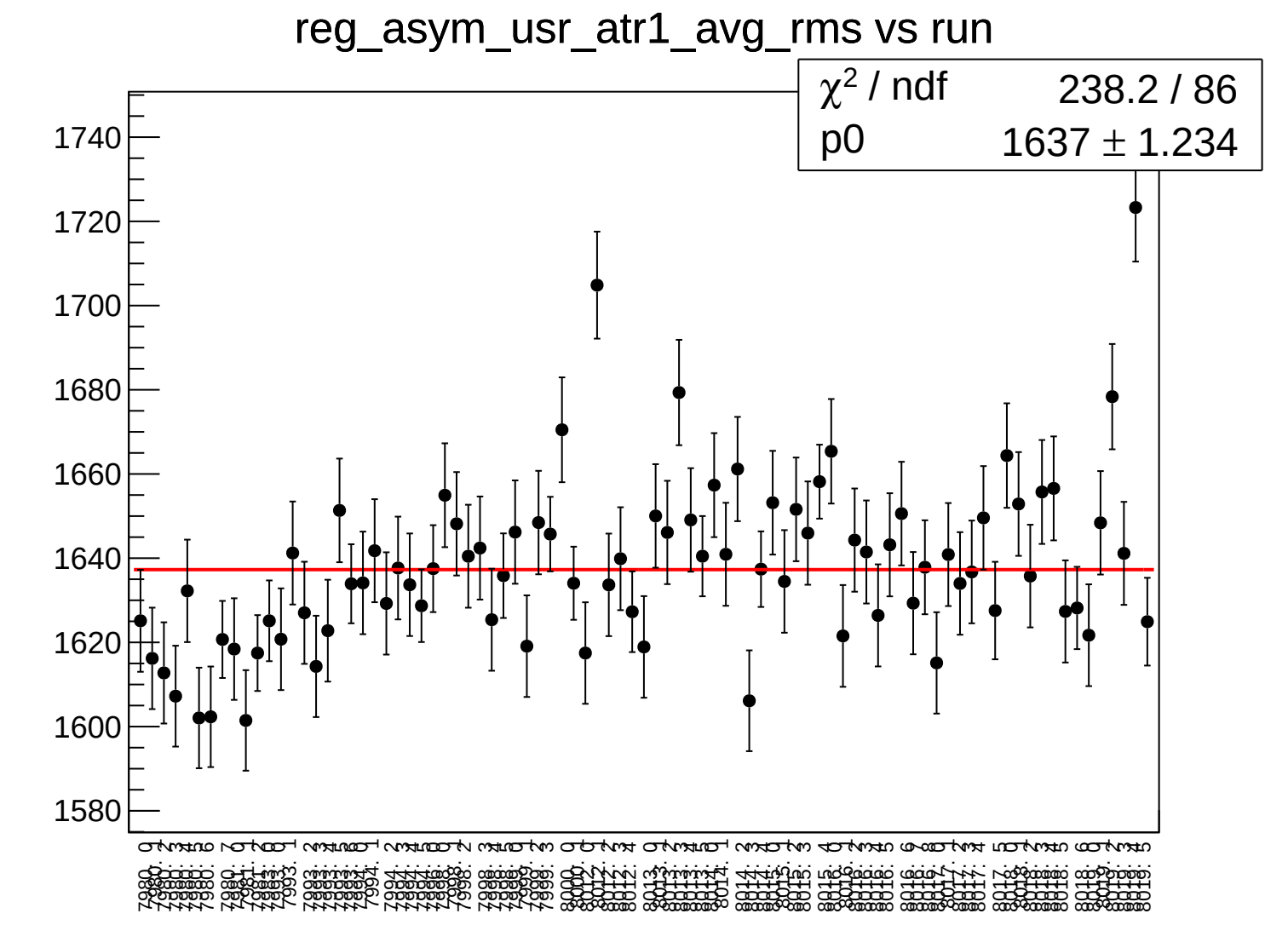

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.207e+04 / 86
p0 167.4 ± 0.1281
450
400
350
300
250
200
150
100

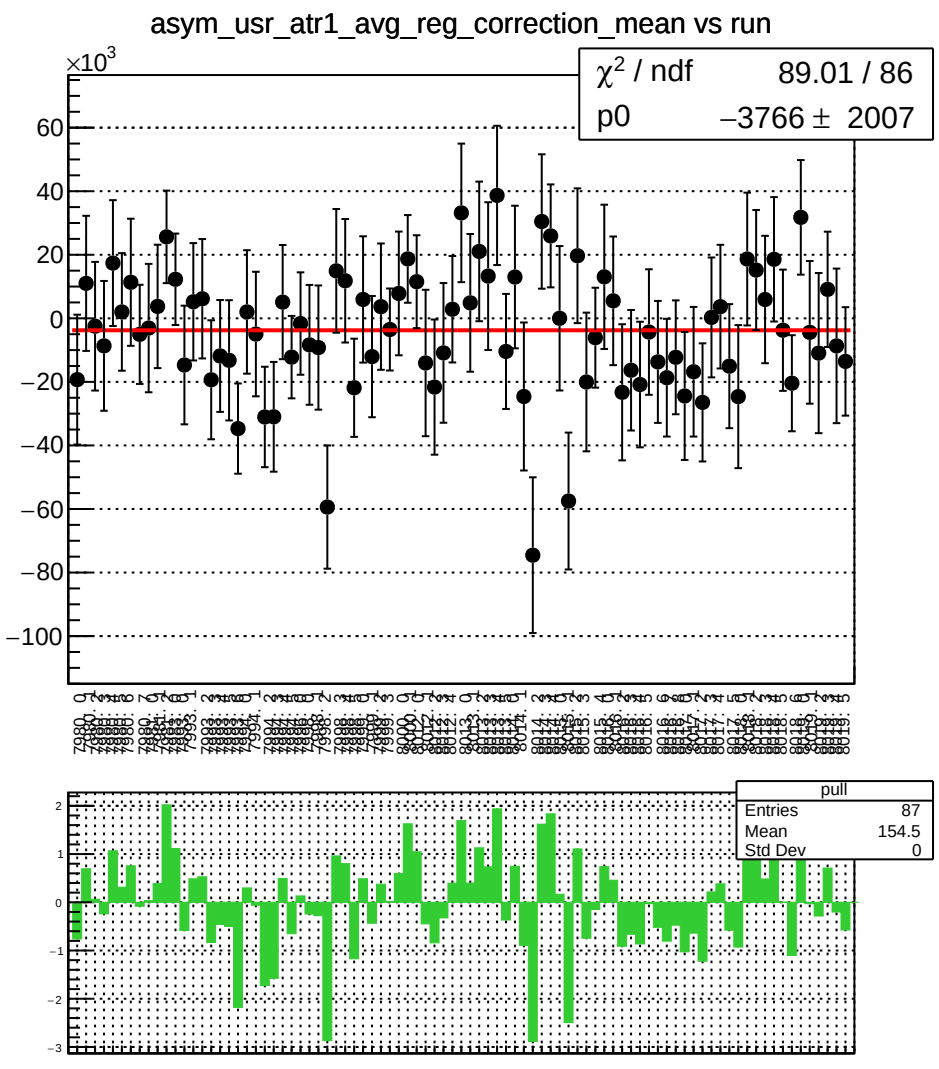

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.28 / 86
p0 4.59e−13 ± 2.493e−13
30
20
10
0
−10
−20
−30
−40
pull
Entries 87
Mean 18.12
Std Dev 0
2
1
0
−1
−2

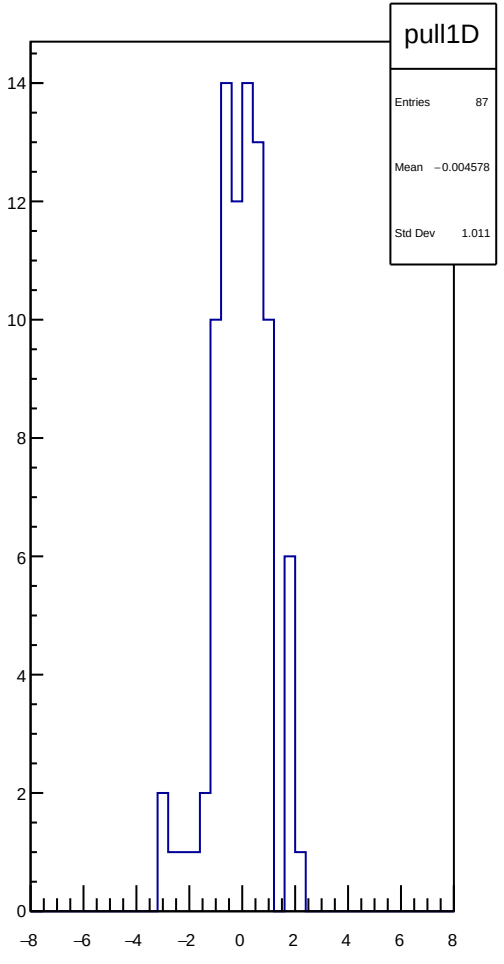

pull1D
Entries 87
Mean 0.09921
Std Dev 0.9434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

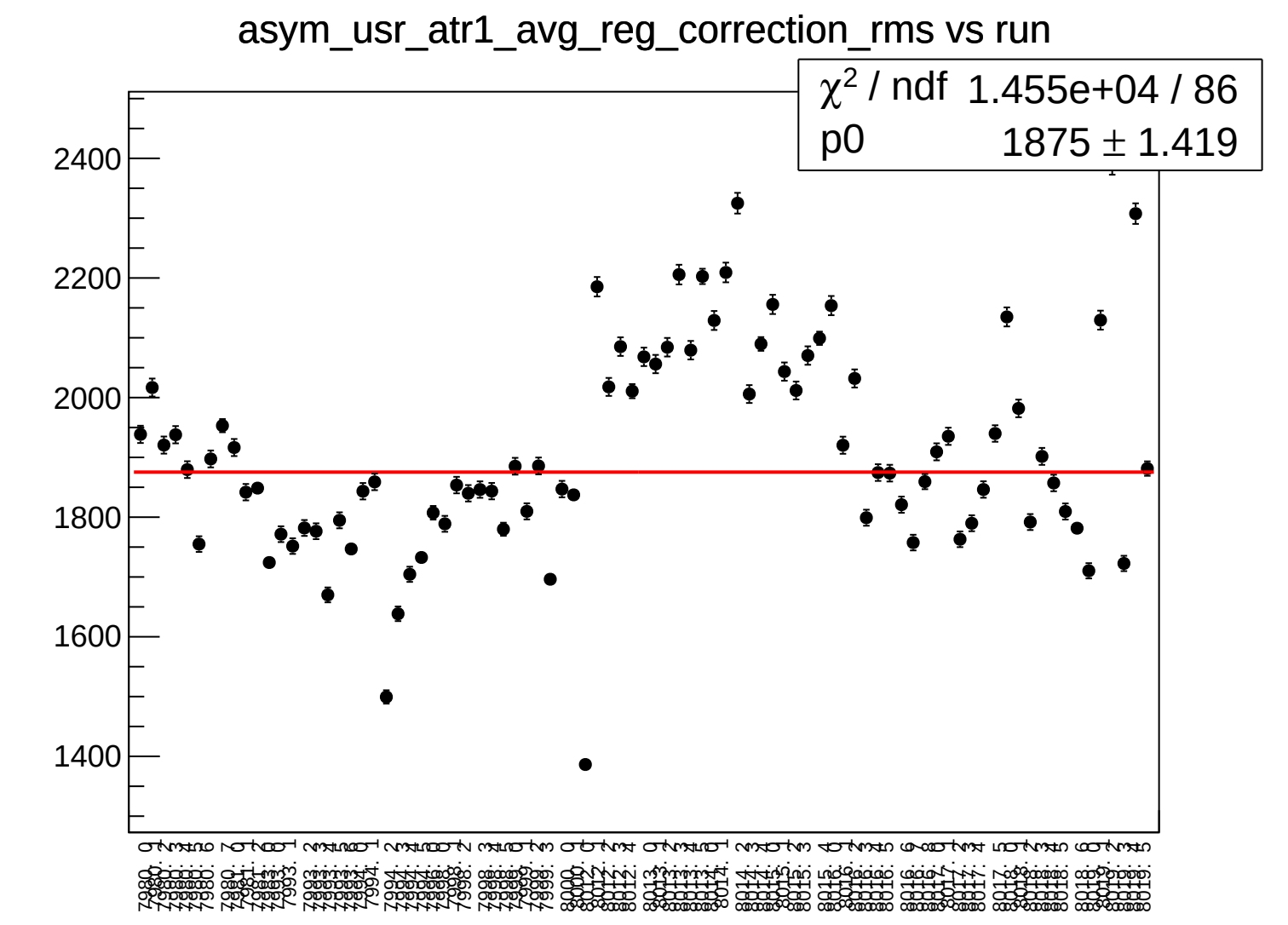

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.606e+05 / 86
p0 1.763e−10 ± 1.763e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

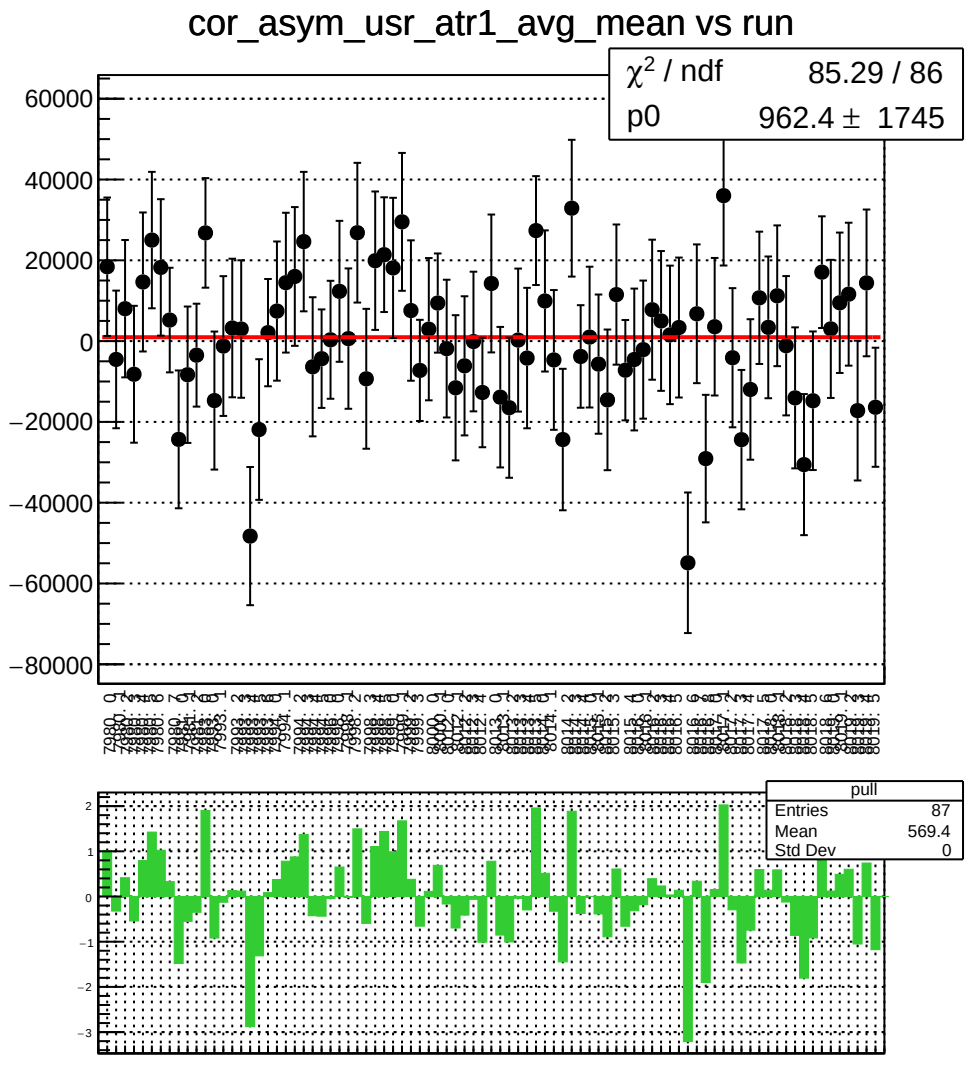

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 85.29 / 86
p0 962.3 ± 1745
pull
Entries 87
Mean 569.4
Std Dev 0
pull1D
Entries 87
Mean −0.007178
Std Dev 0.9901

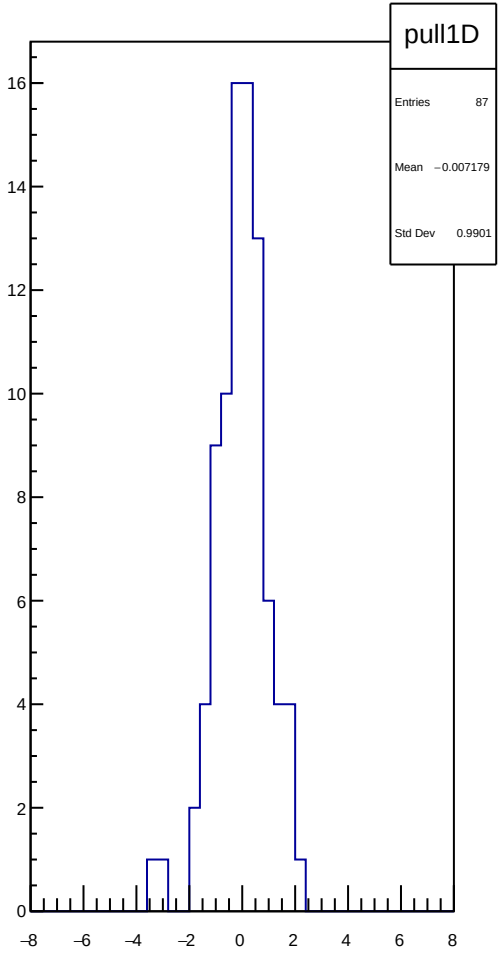

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 238.2 / 86
p0 1637 ± 1.234
1740
1720
1700
1680
1660
1640
1620
1600
1580

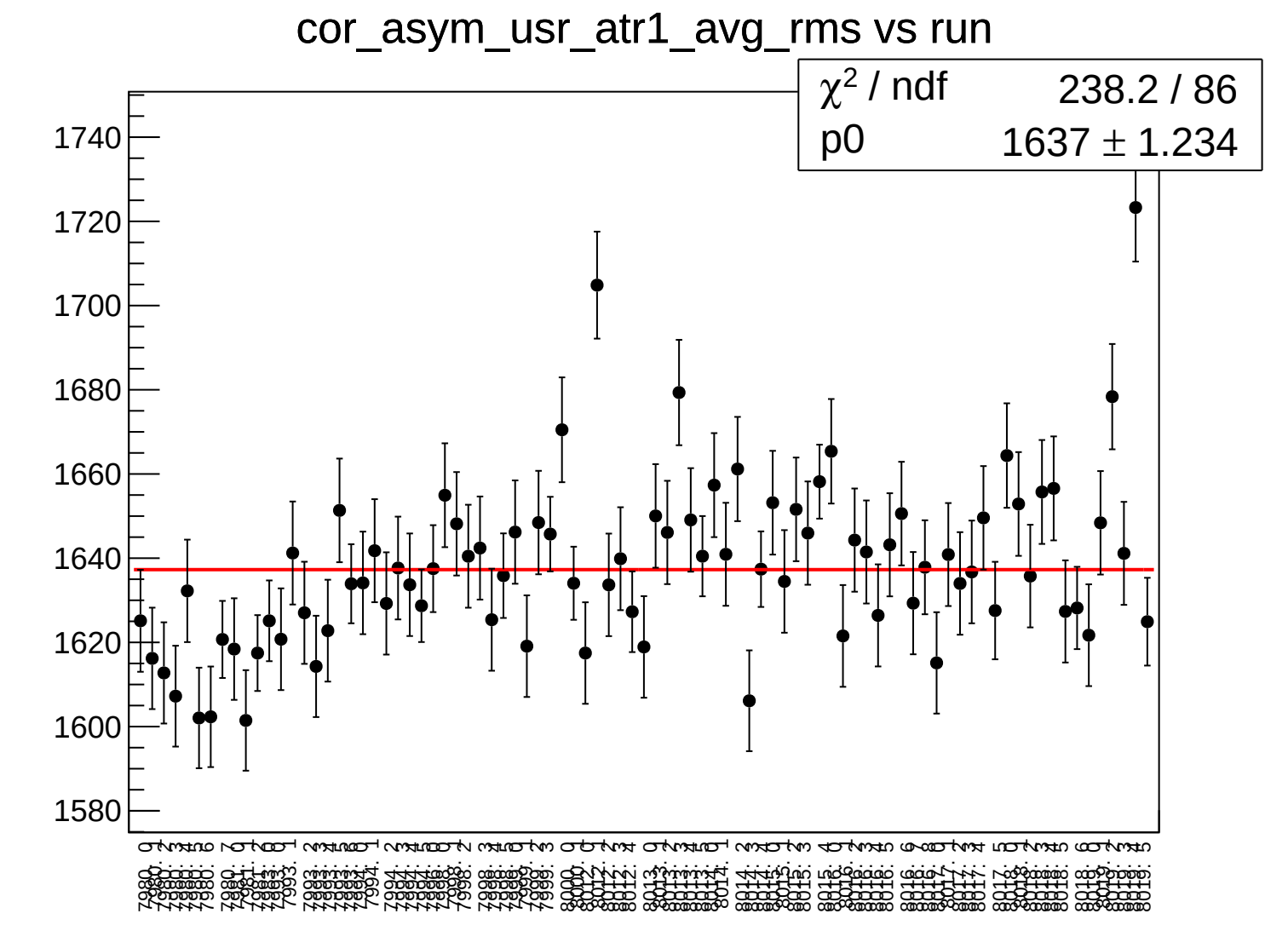

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 89.01 / 86
p0 −3766 ± 2007
×10³
pull
Entries 87
Mean 154.5
Std Dev 0

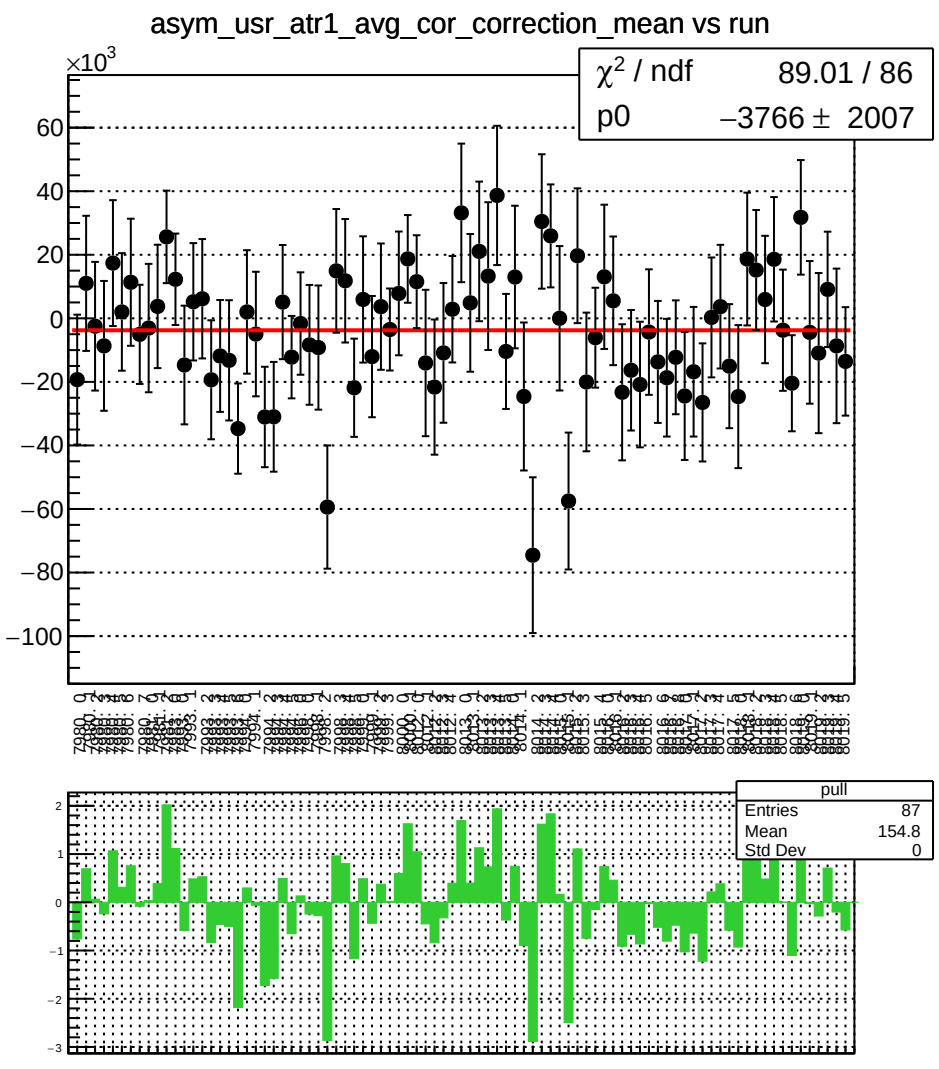

pull1D
Entries 87
Mean −0.004578
Std Dev 1.011

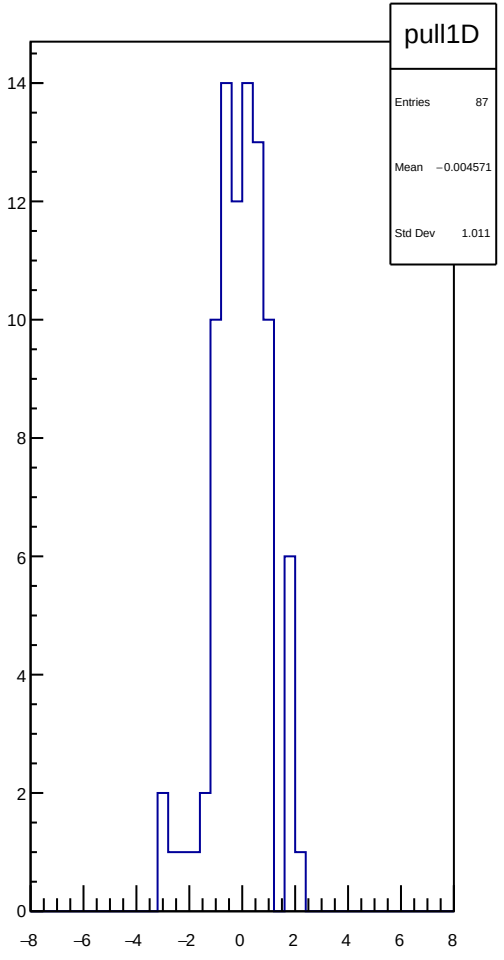

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.455e+04 / 86
p0 1875 ± 1.419
2400
2200
2000
1800
1600
1400

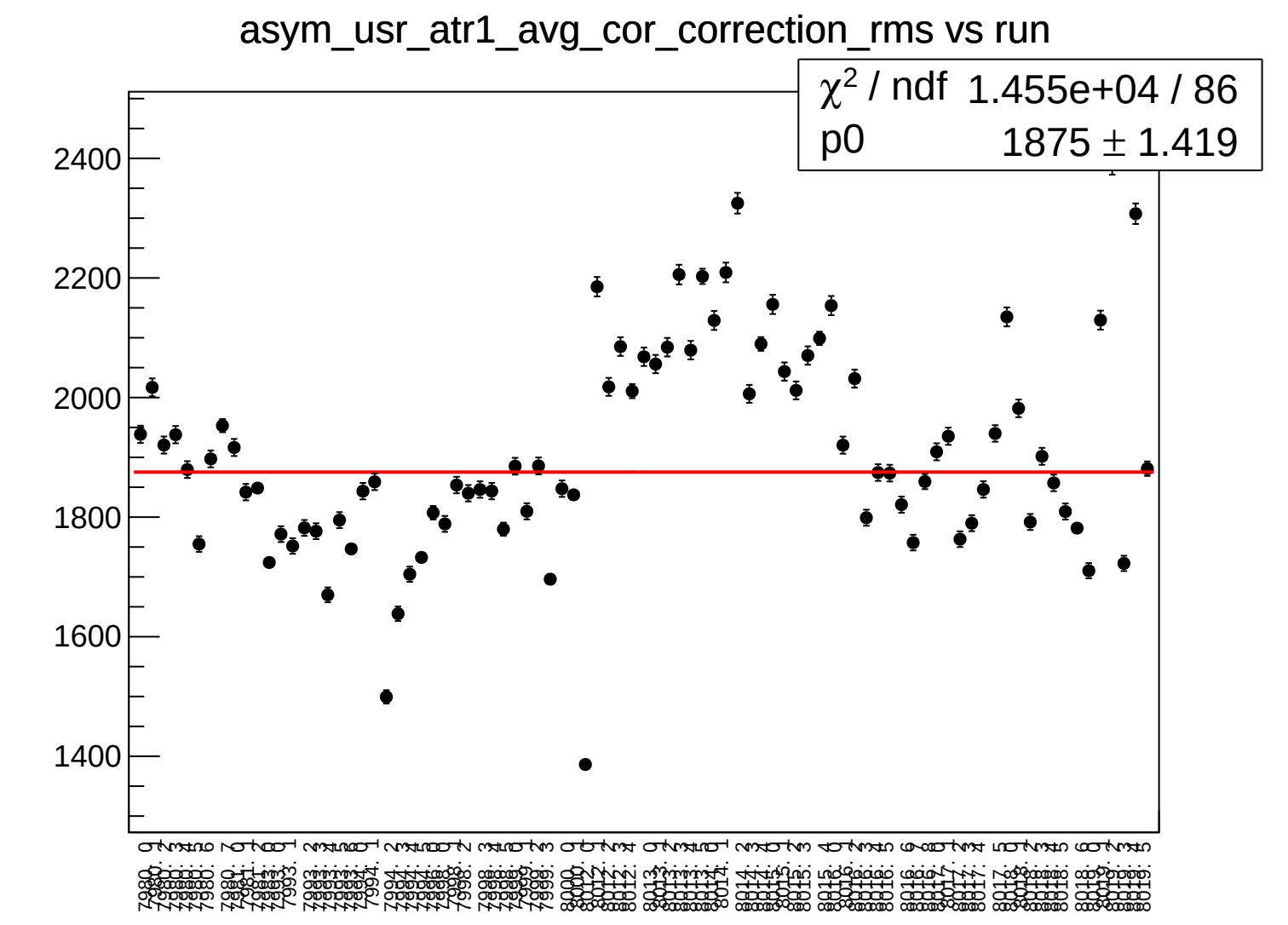

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 85.29 / 86
p0 962.4 ± 1745
pull
Entries 87
Mean 569.4
Std Dev 0

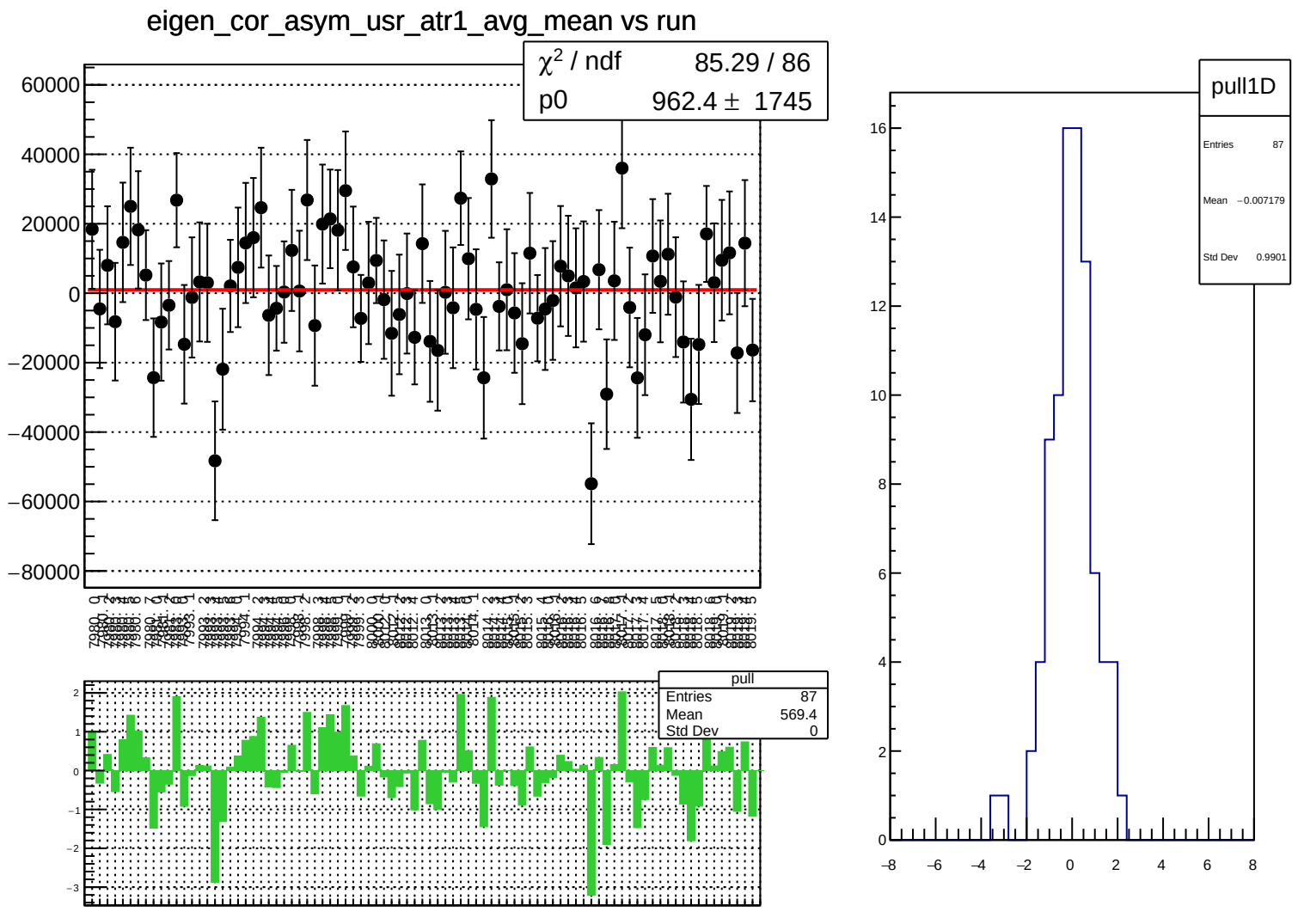

pull1D
Entries 87
Mean −0.007179
Std Dev 0.9901

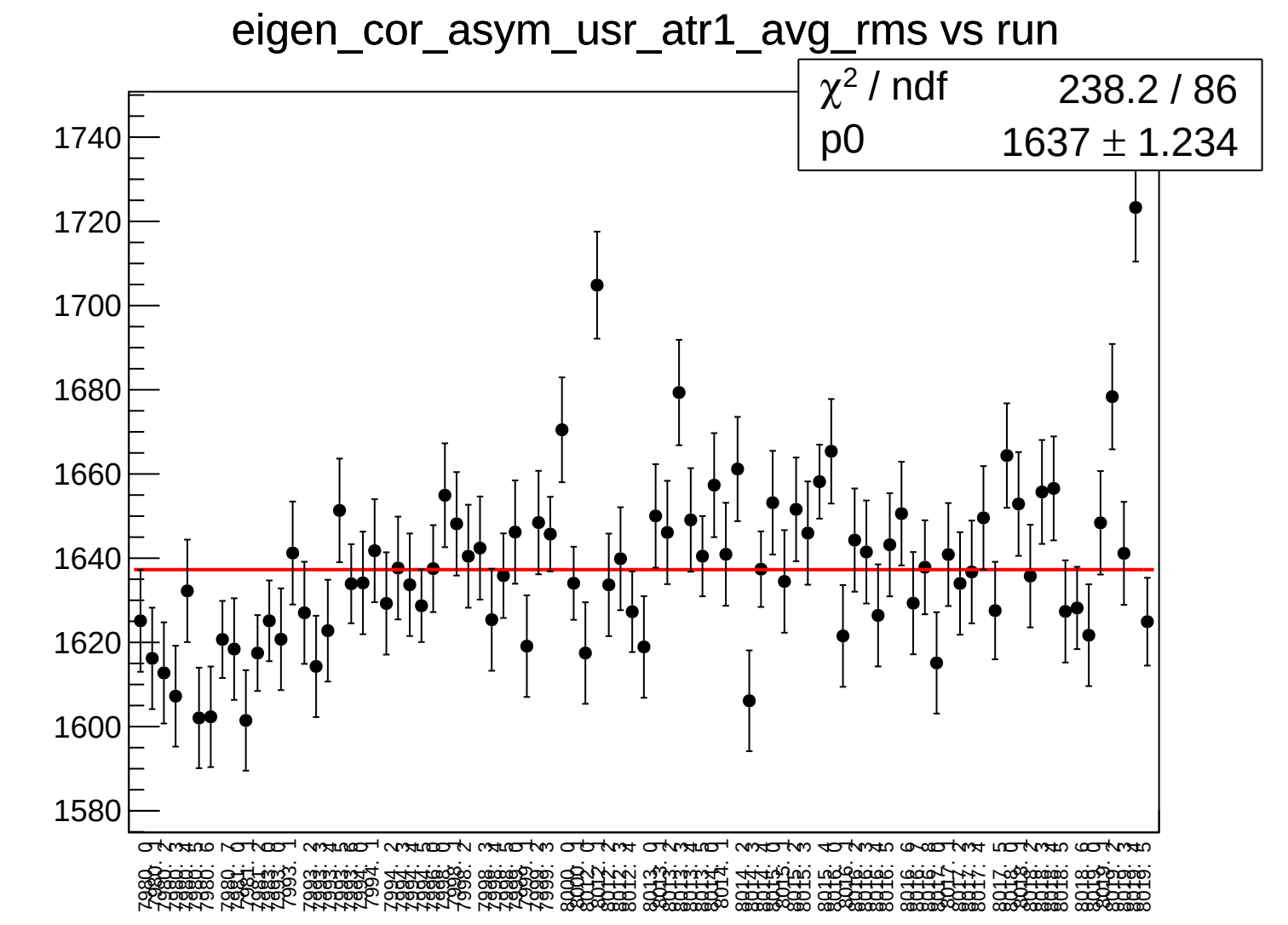

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 238.2 / 86
p0 1637 ± 1.234
1740
1720
1700
1680
1660
1640
1620
1600
1580

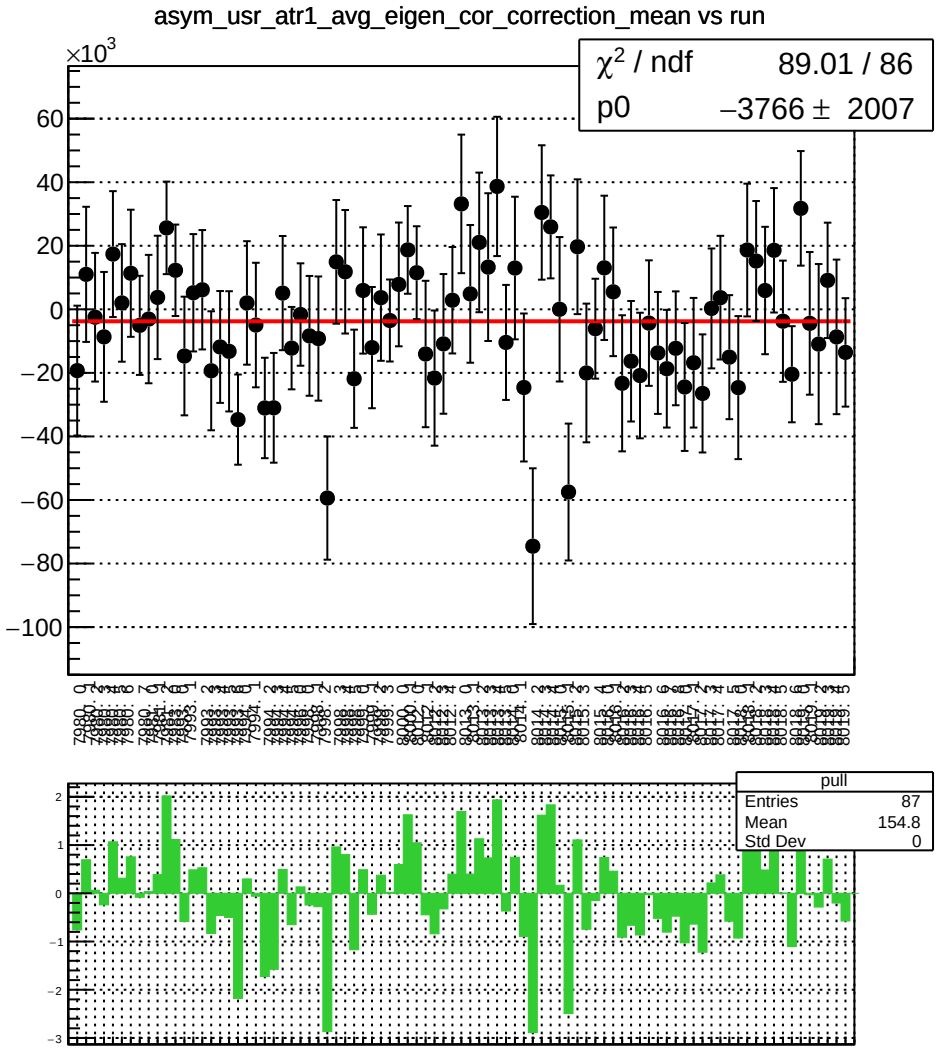

asym_usr_atr1_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.01 / 86
p0 −3766 ± 2007
pull
Entries 87
Mean 154.8
Std Dev 0

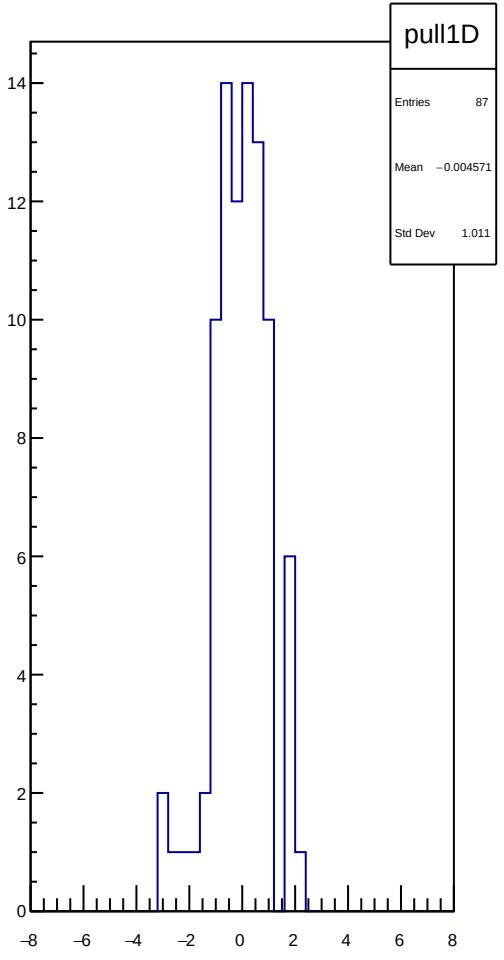

pull1D
Entries 87
Mean −0.004571
Std Dev 1.011

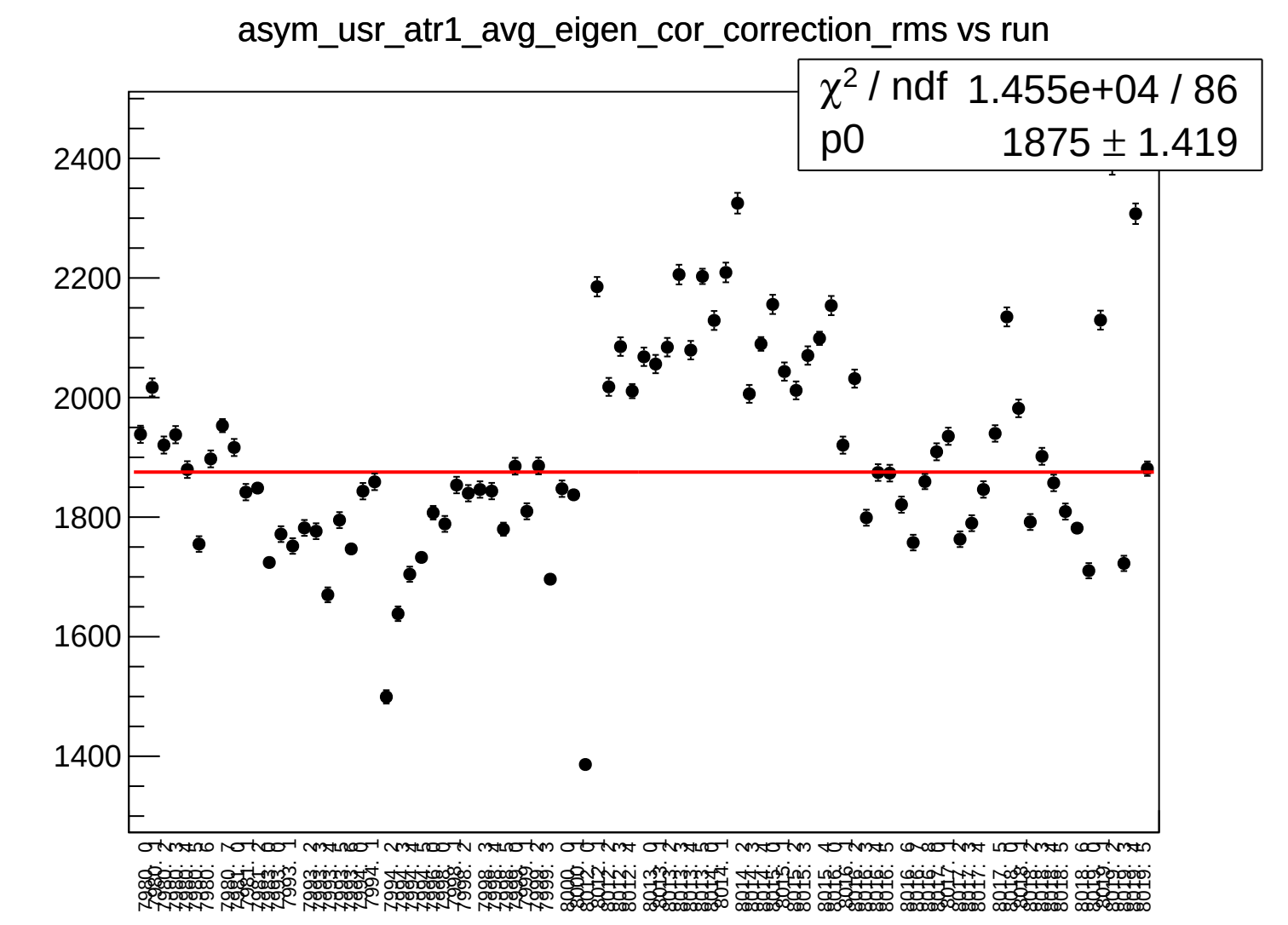

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.455e+04 / 86
p0 1875 ± 1.419
2400
2200
2000
1800
1600
1400

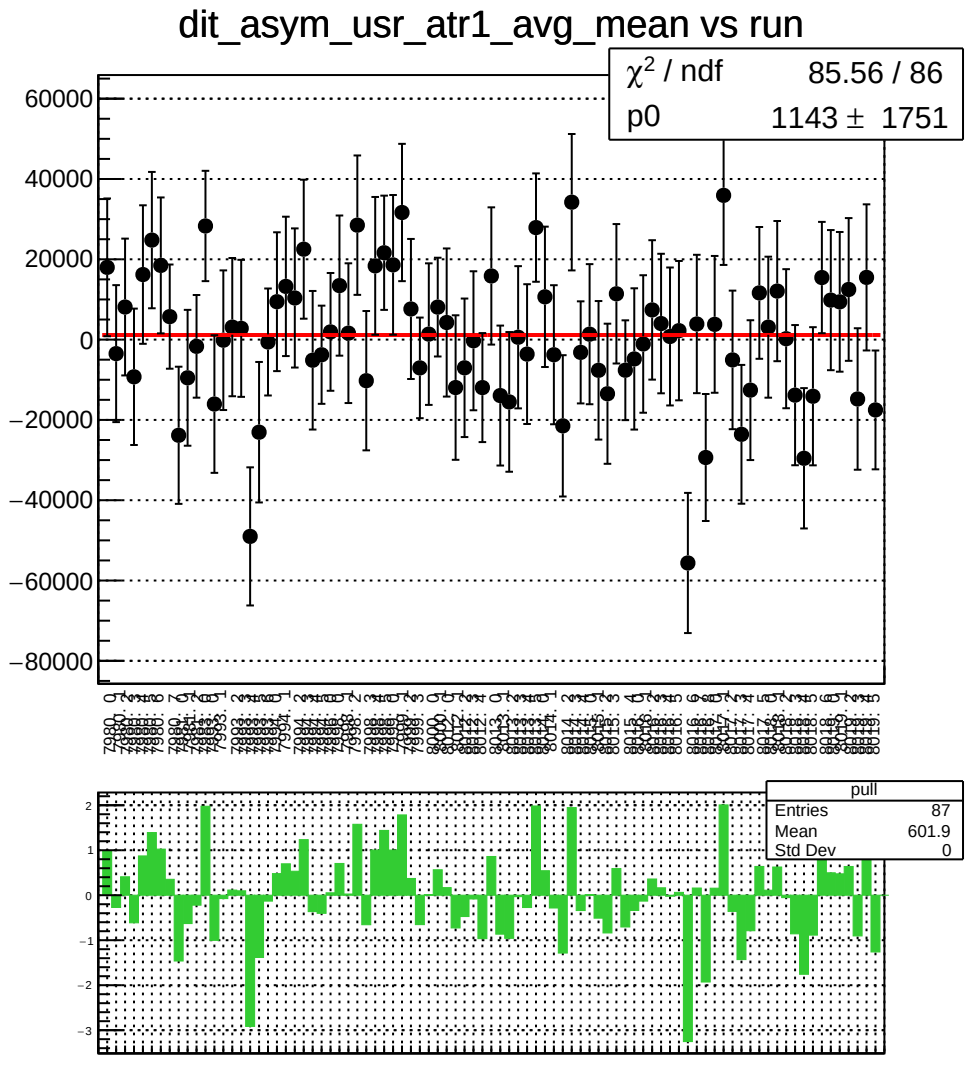

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 85.29 / 86
p0 962.4 ± 1745
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 569.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.007179
Std Dev 0.9901
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

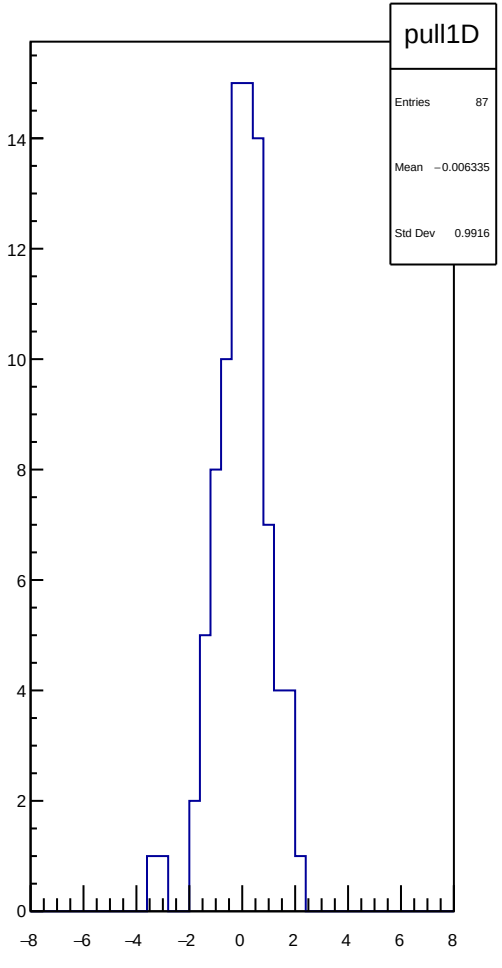

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 238.2 / 86
p0 1637 ± 1.234
1740
1720
1700
1680
1660
1640
1620
1600
1580

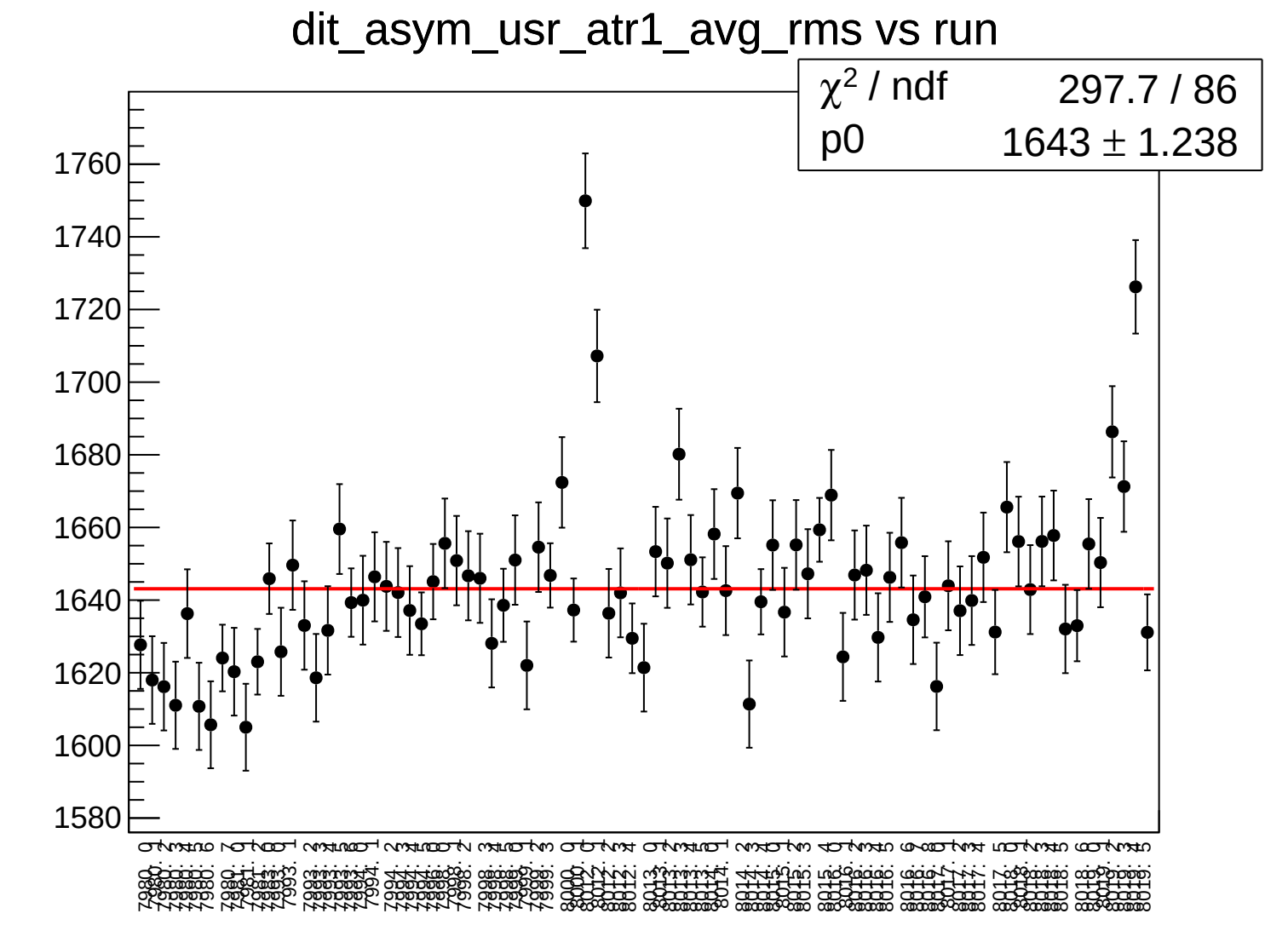

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.01 / 86
p0 −3766 ± 2007
pull
Entries 87
Mean 154.8
Std Dev 0

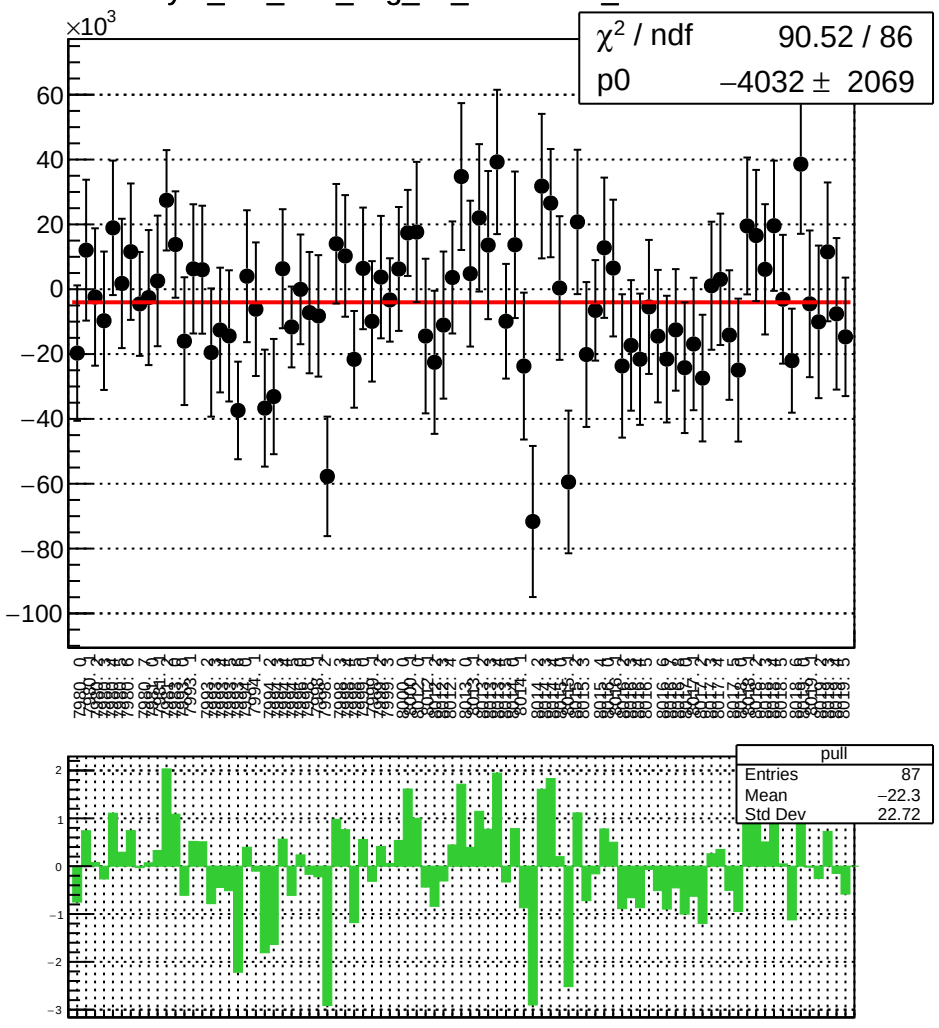

pull1D
Entries 87
Mean −0.004571
Std Dev 1.011

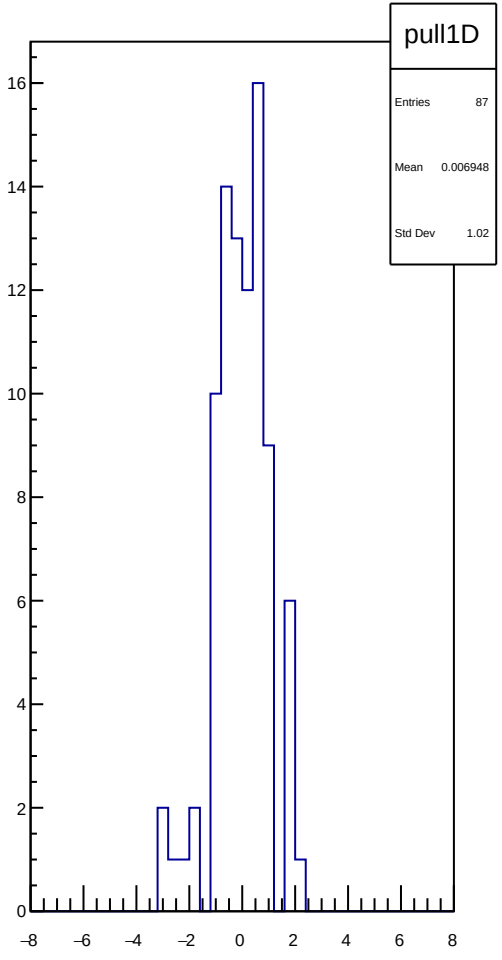

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.455e+04 / 86
p0 1875 ± 1.419
2400
2200
2000
1800
1600
1400

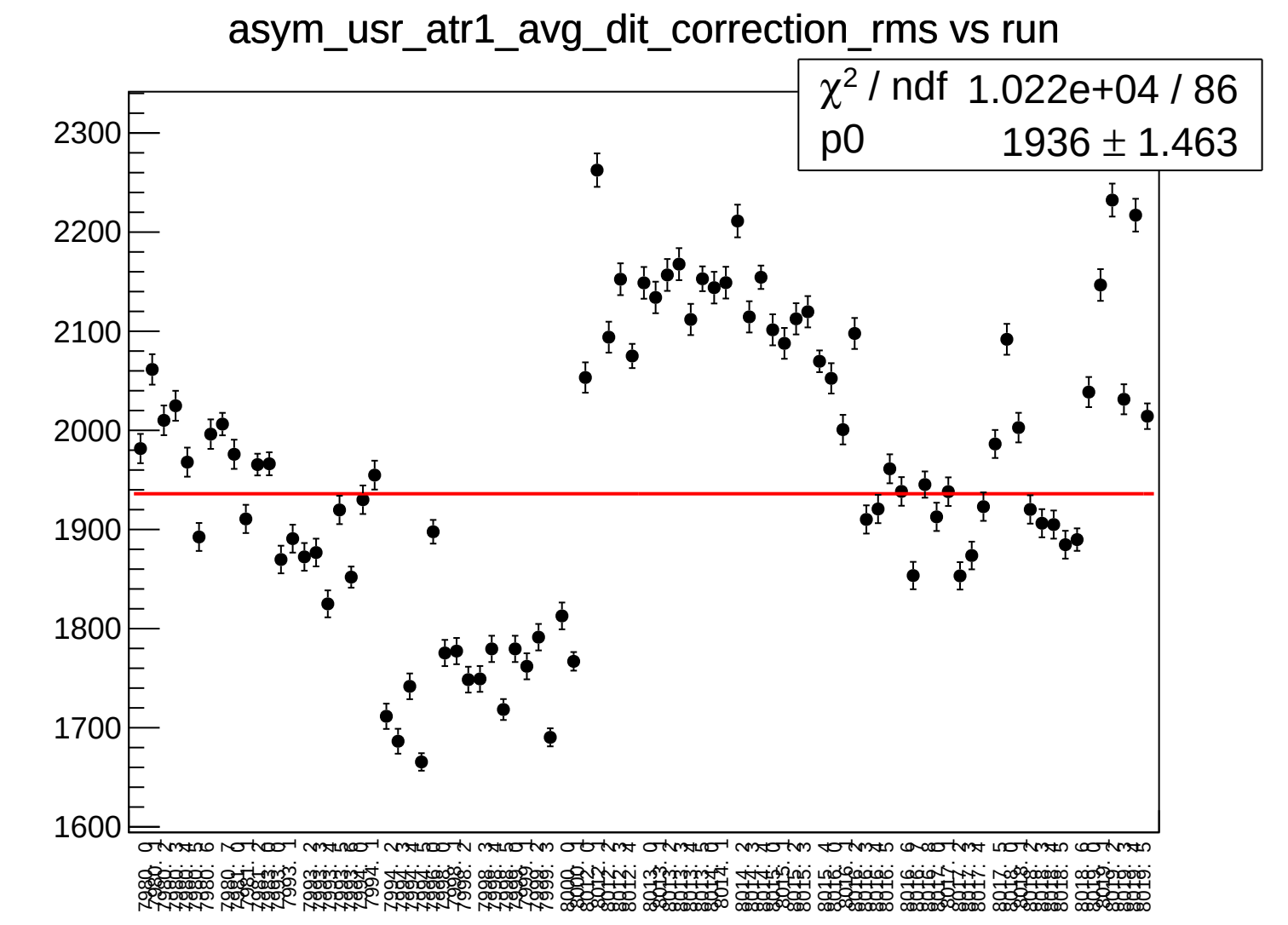

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 85.56 / 86
p0 1143 ± 1751
pull
Entries 87
Mean 601.9
Std Dev 0

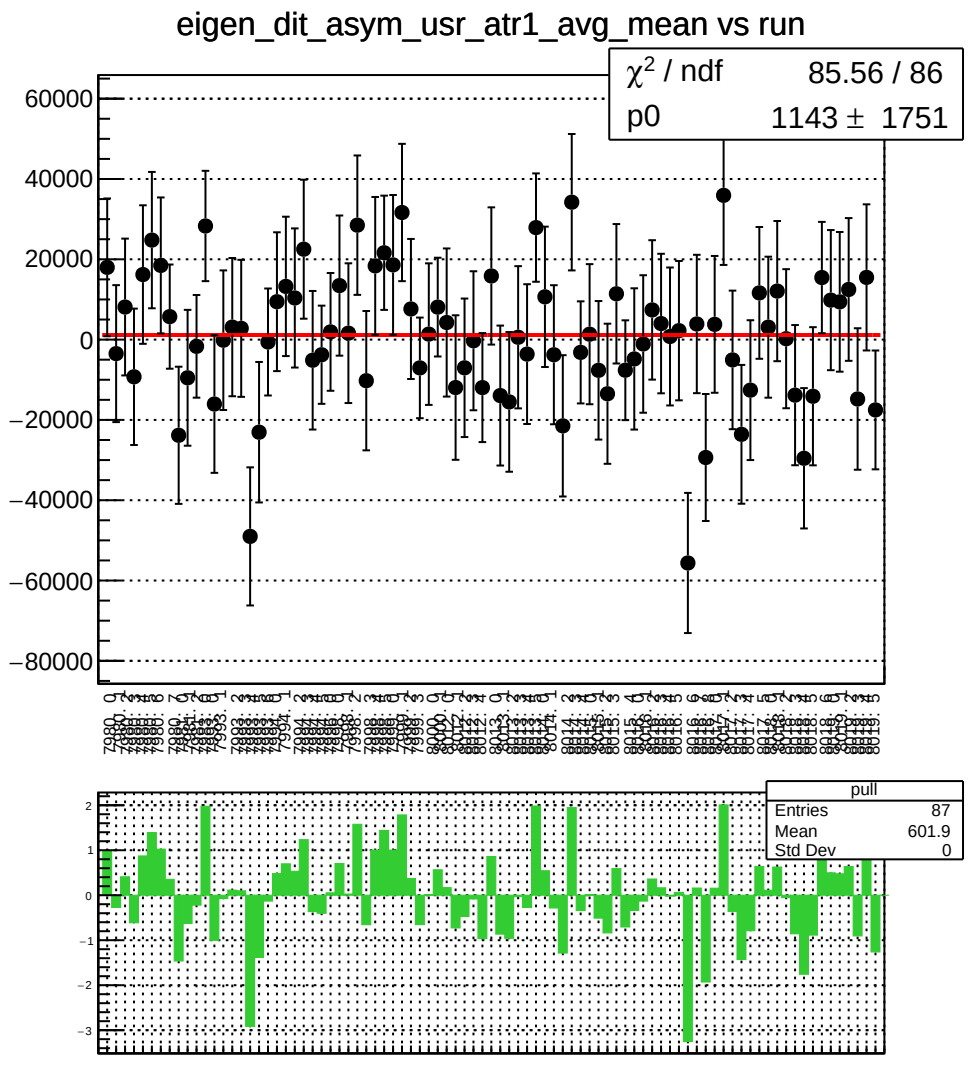

pull1D
Entries 87
Mean −0.006335
Std Dev 0.9916

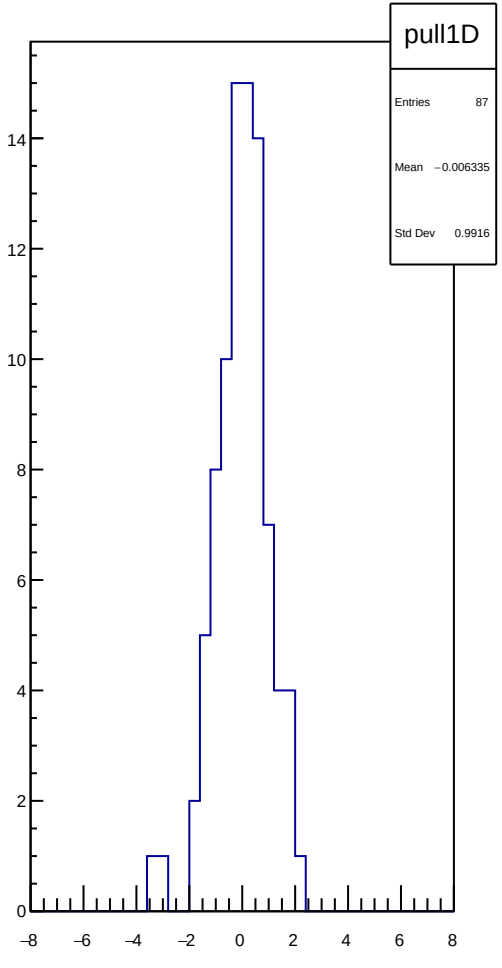

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 297.7 / 86
p0 1643 ± 1.238
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

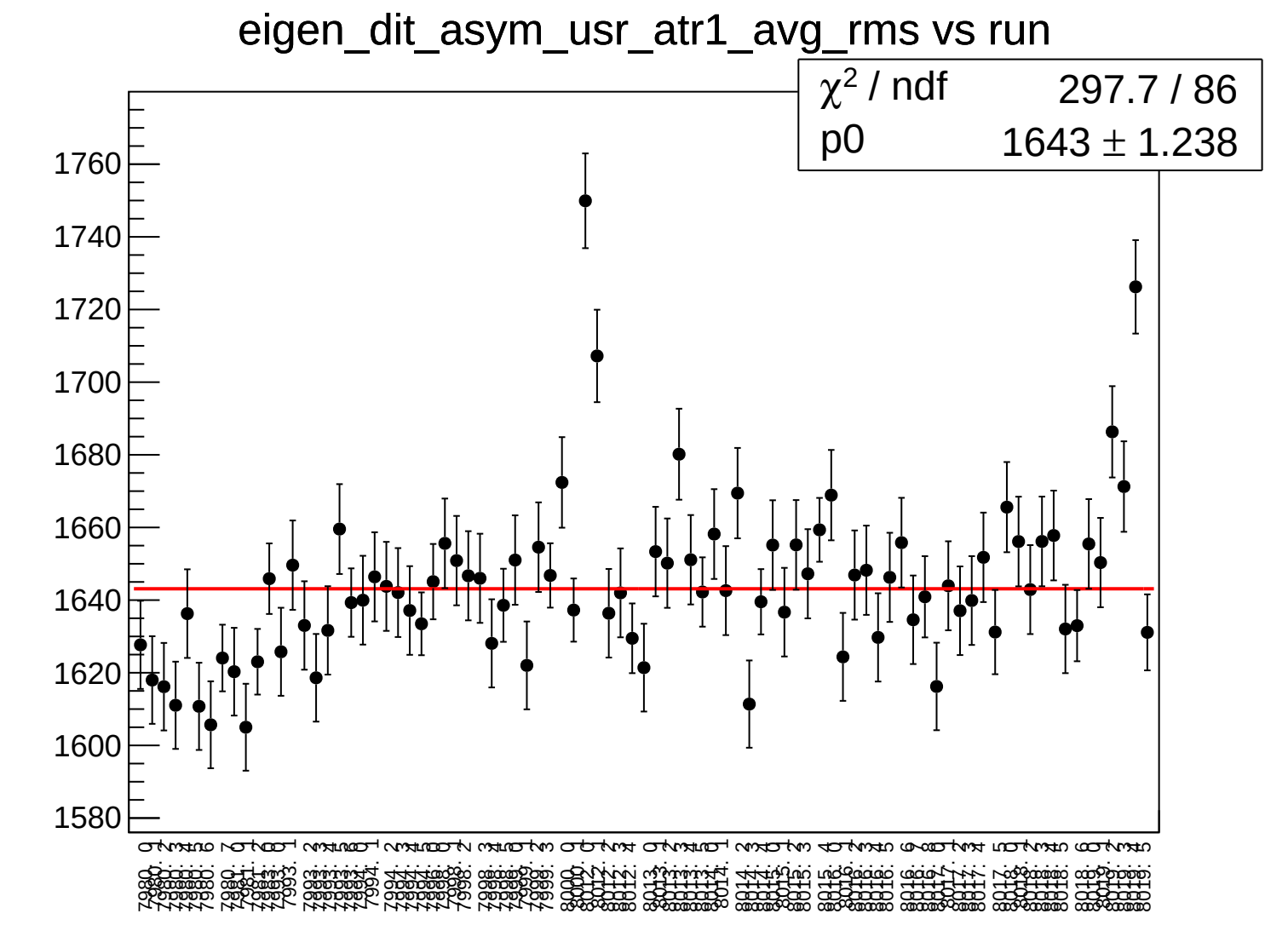

asym_usr_atr1_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 90.52 / 86
p0 −4032 ± 2069
pull
Entries 87
Mean −22.3
Std Dev 22.72

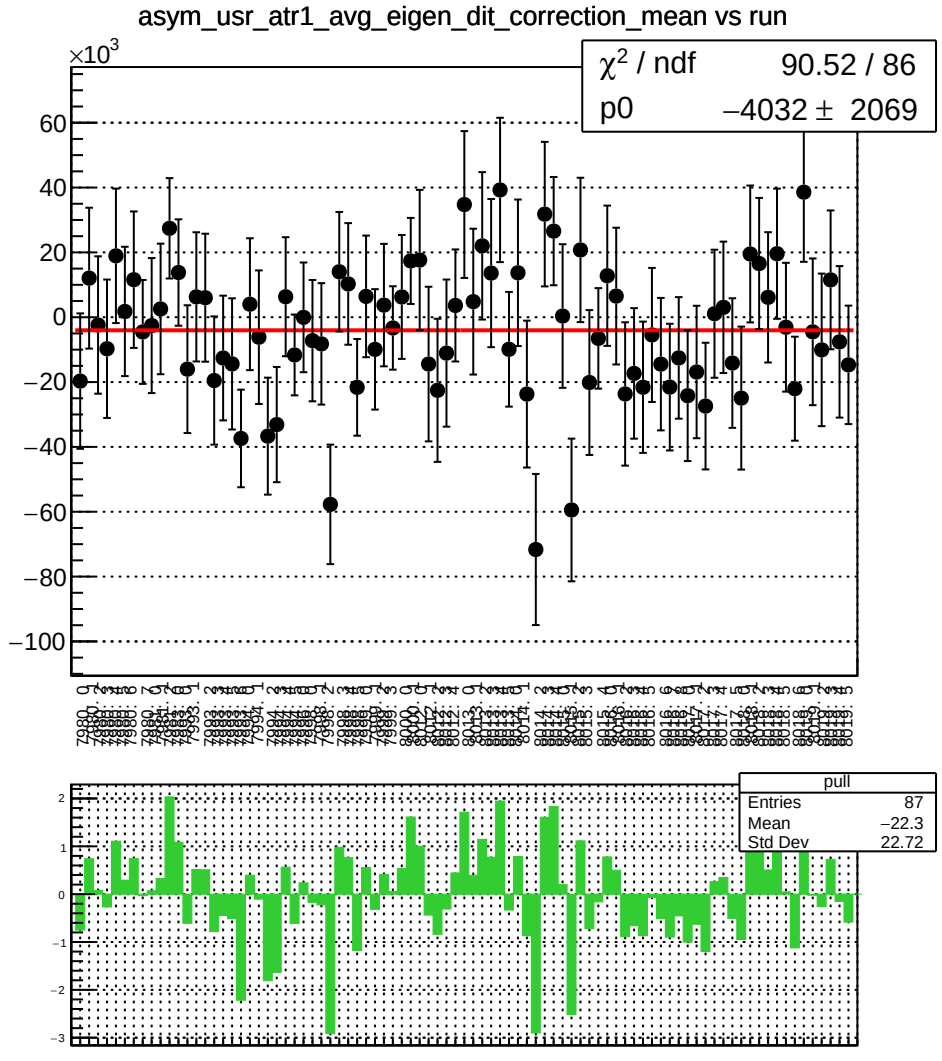

pull1D
Entries 87
Mean 0.006948
Std Dev 1.02

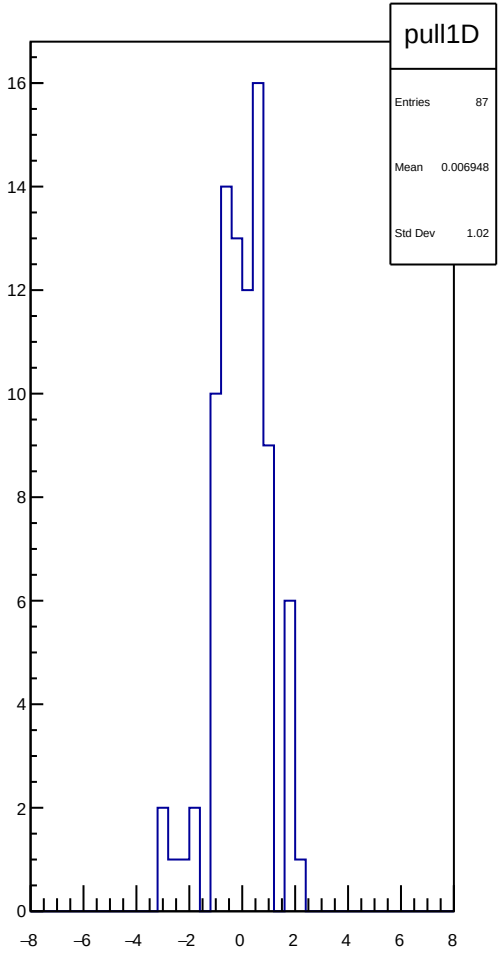

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1.022e+04 / 86
p0 1936 ± 1.463
2300
2200
2100
2000
1900
1800
1700
1600

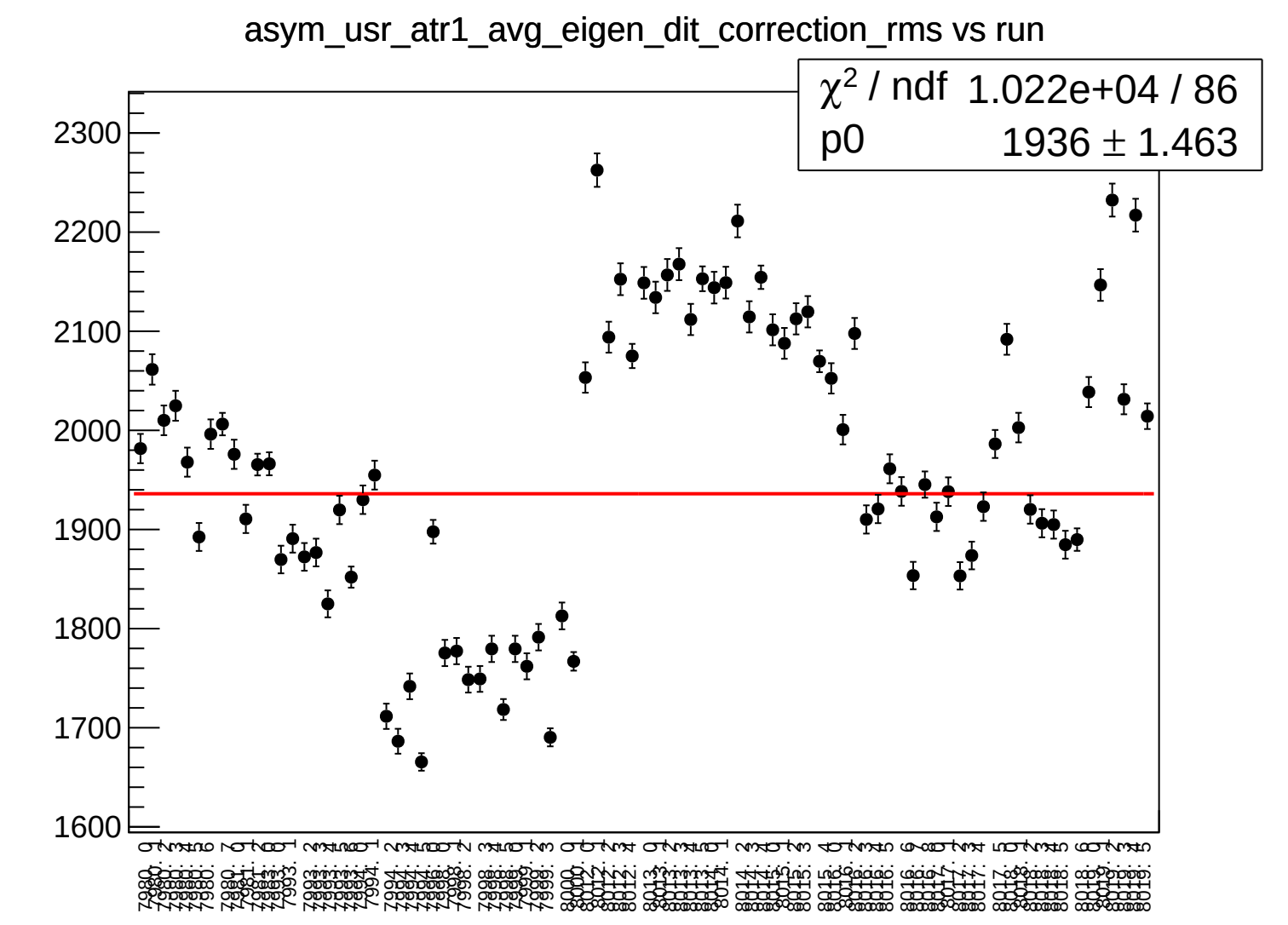

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 85.56 / 86
p0 1143 ± 1751
pull
Entries 87
Mean 601.9
Std Dev 0

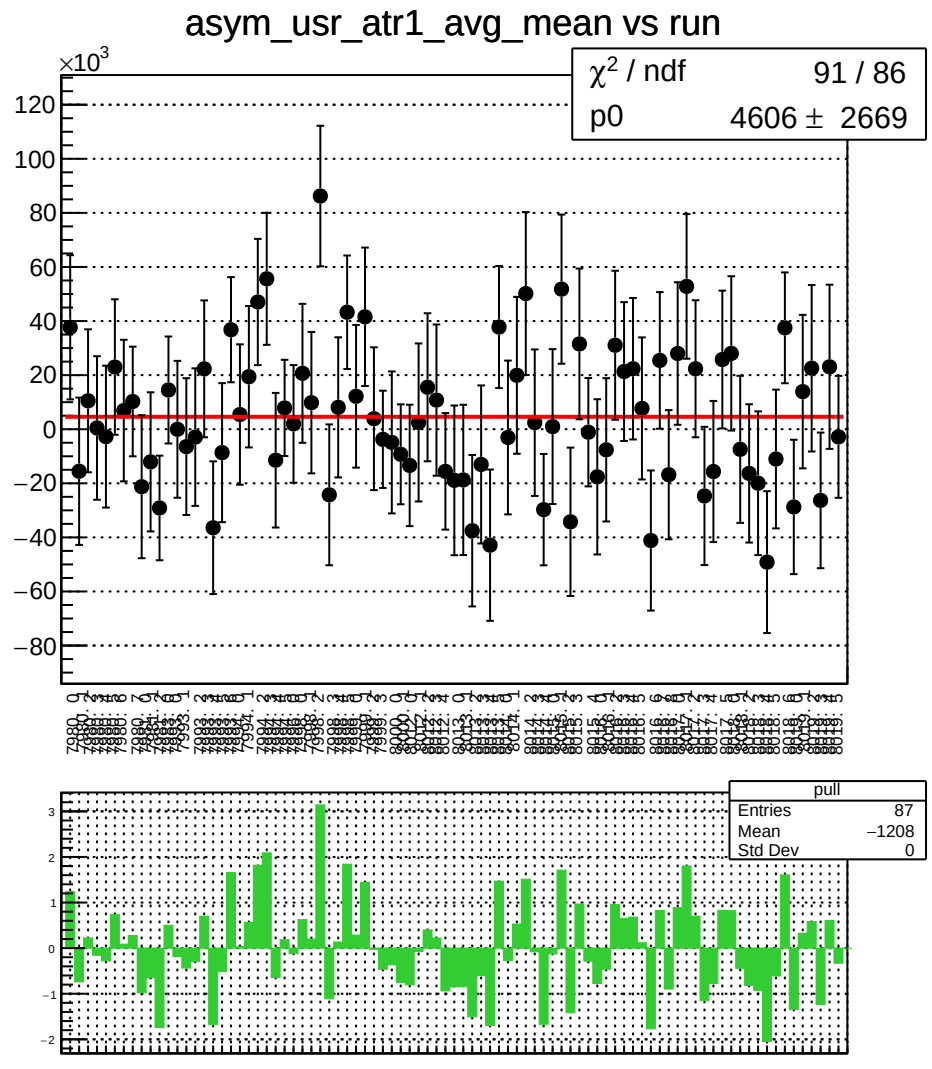

pull1D
Entries 87
Mean −0.006335
Std Dev 0.9916

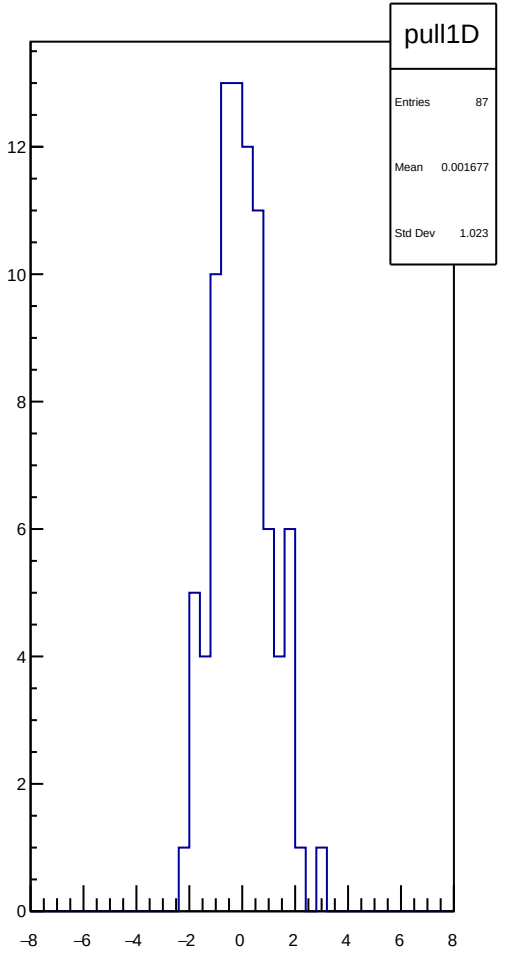

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 297.7 / 86
p0 1643 ± 1.238
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

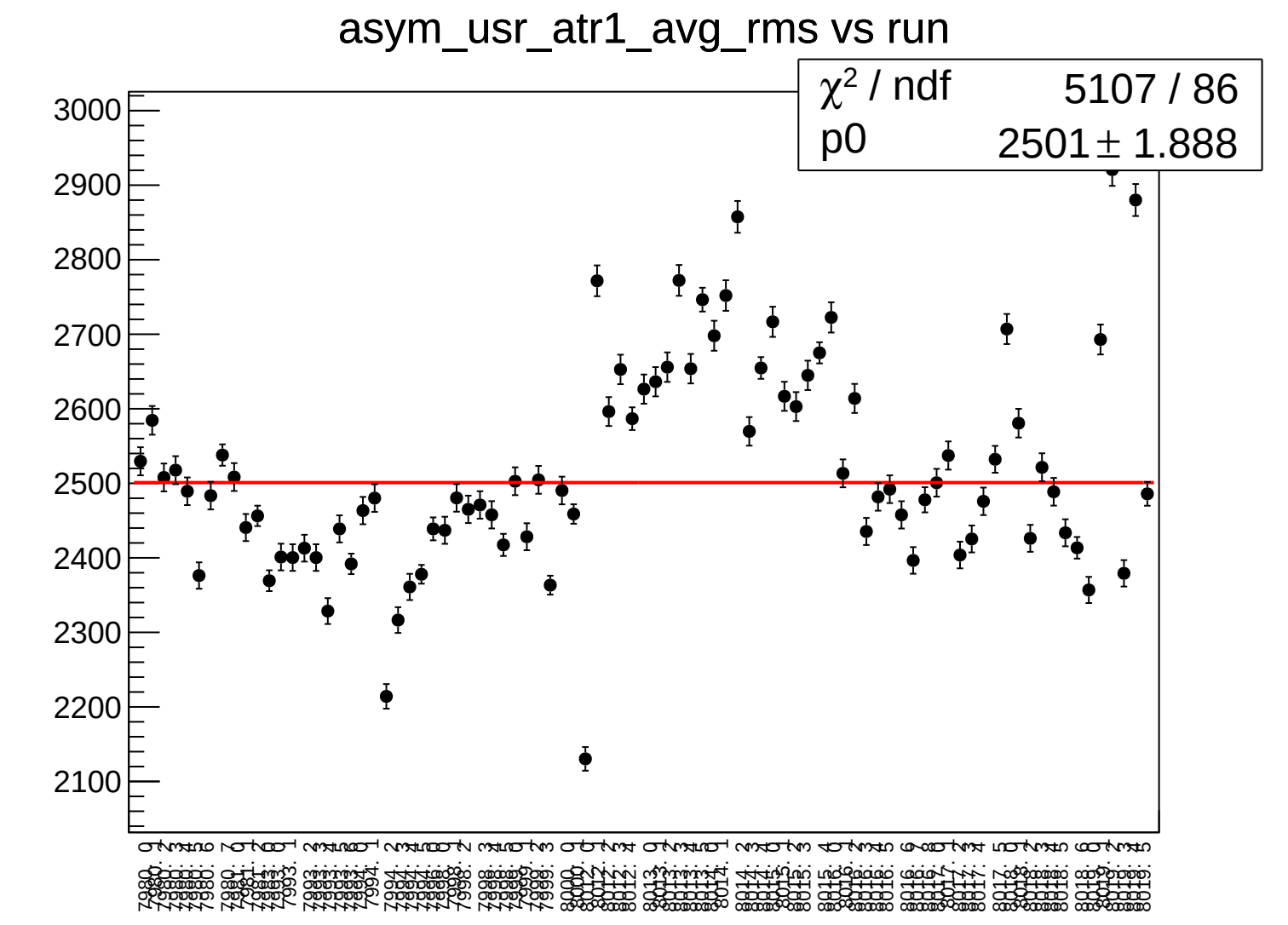

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 90.52 / 86
p0 −4032 ± 2069
pull
Entries 87
Mean −22.3
Std Dev 22.72

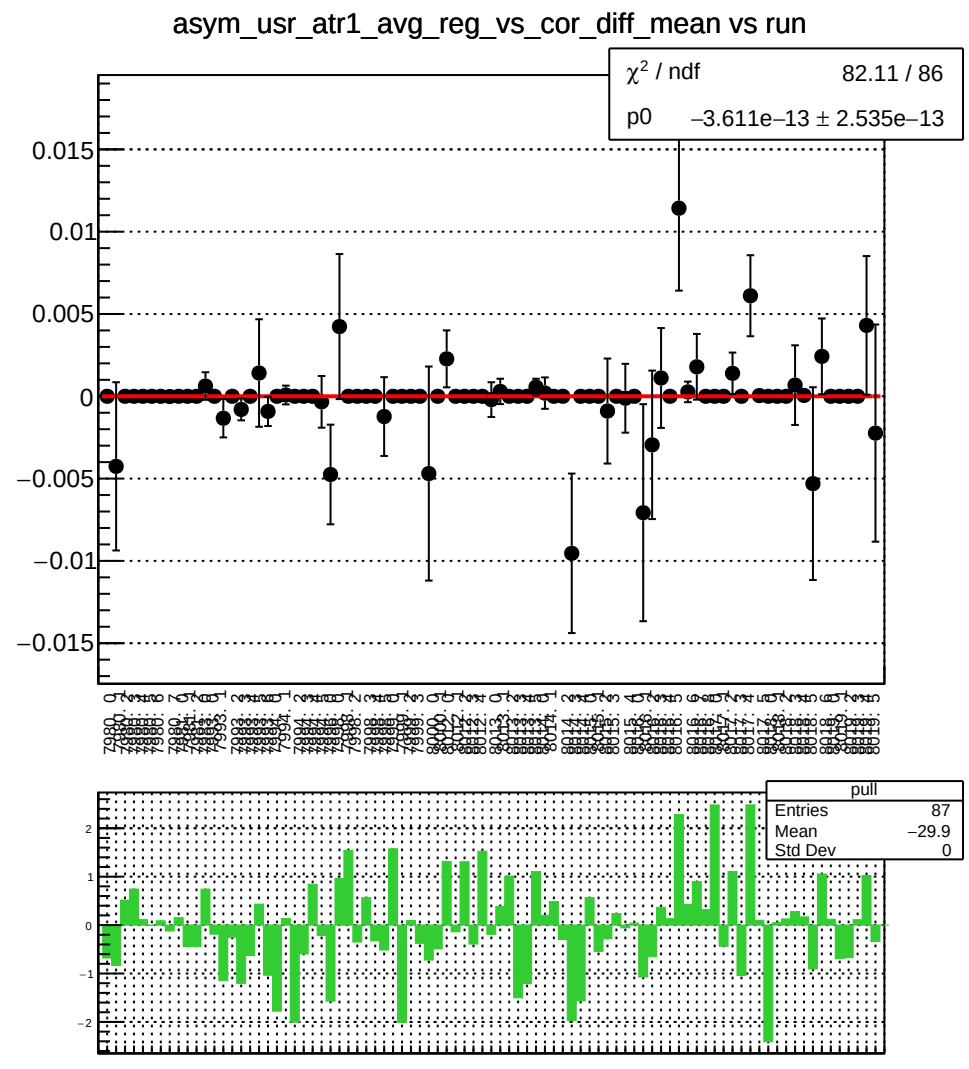

pull1D
Entries 87
Mean 0.006948
Std Dev 1.02

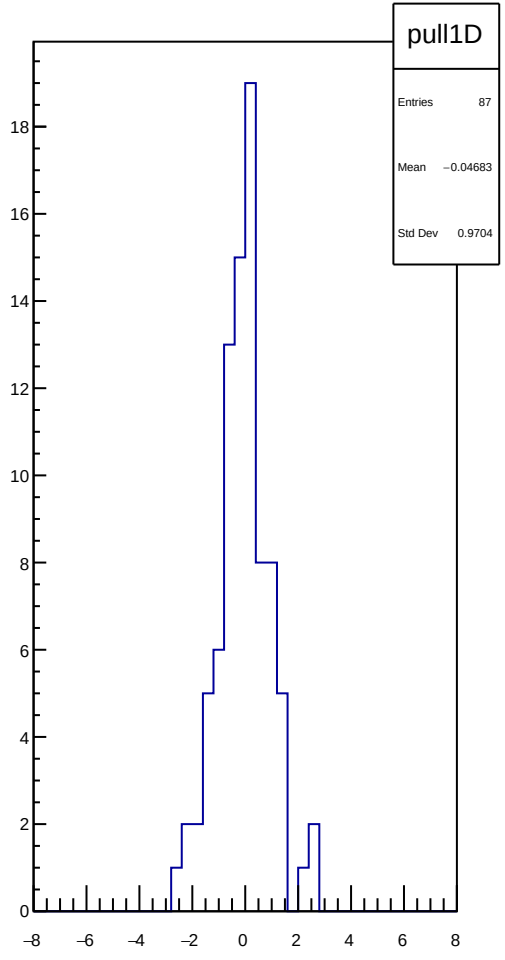

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.022e+04 / 86
p0 1936 ± 1.463
2300
2200
2100
2000
1900
1800
1700
1600

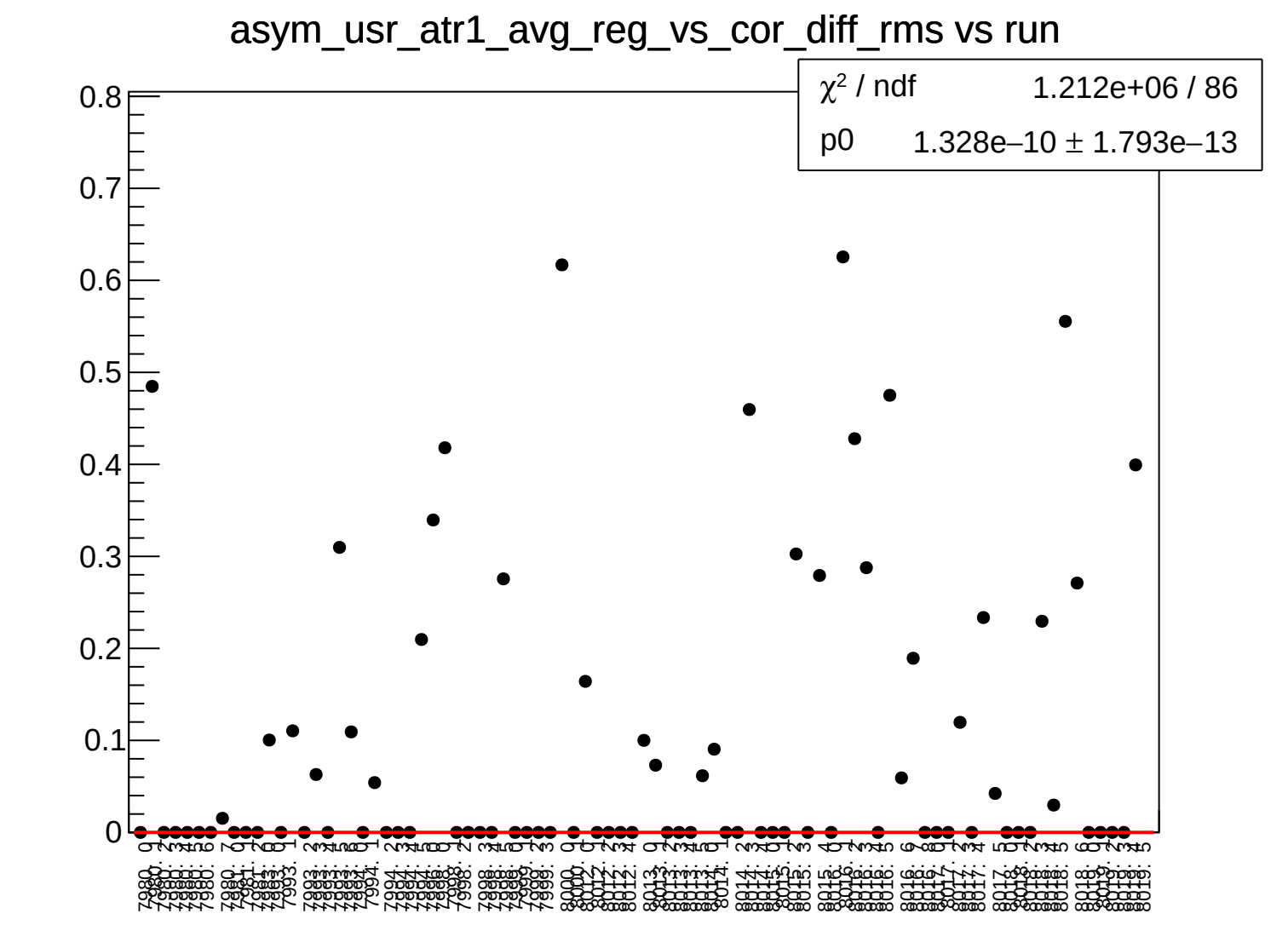

asym_usr_atr1_avg_mean vs run
×10^3
χ^2 / ndf 91 / 86
p0 4606 ± 2669
pull
Entries 87
Mean −1208
Std Dev 0

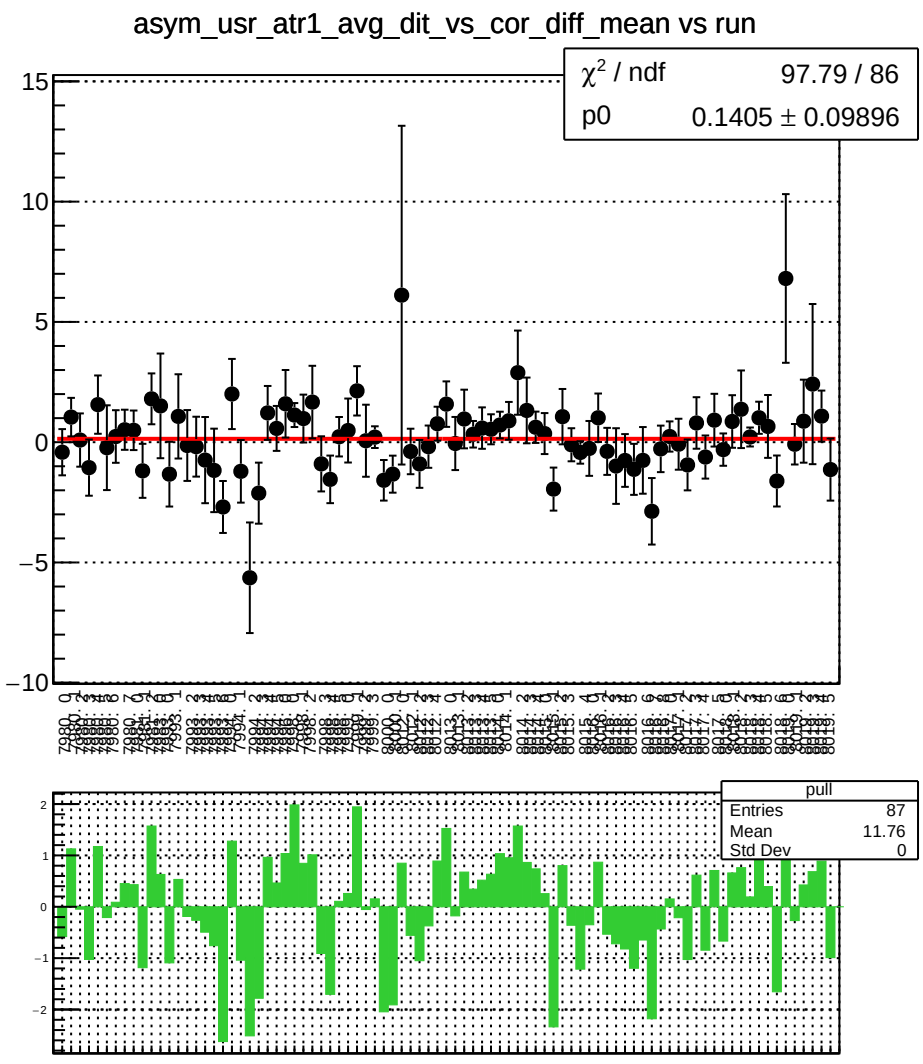

pull1D
Entries 87
Mean 0.001677
Std Dev 1.023

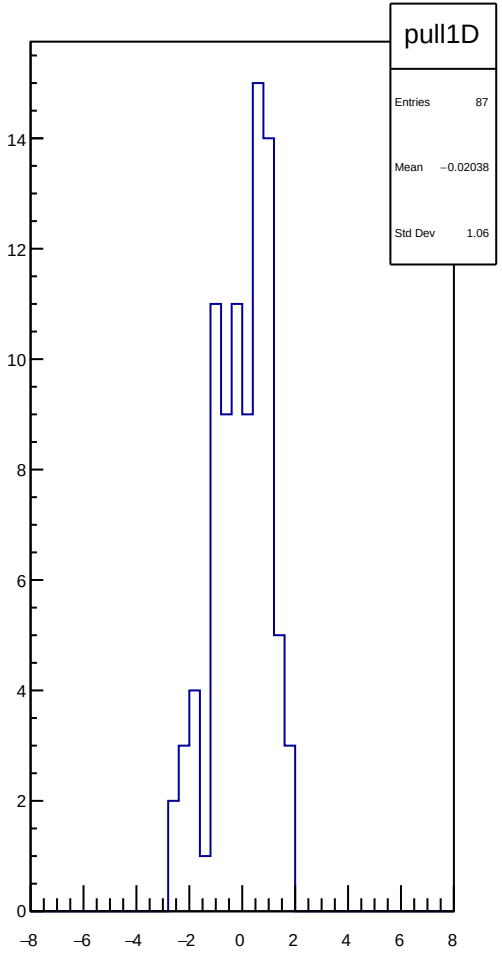

asym_usr_atr1_avg_rms vs run
χ^2 / ndf 5107 / 86
p0 2501 ± 1.888
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100

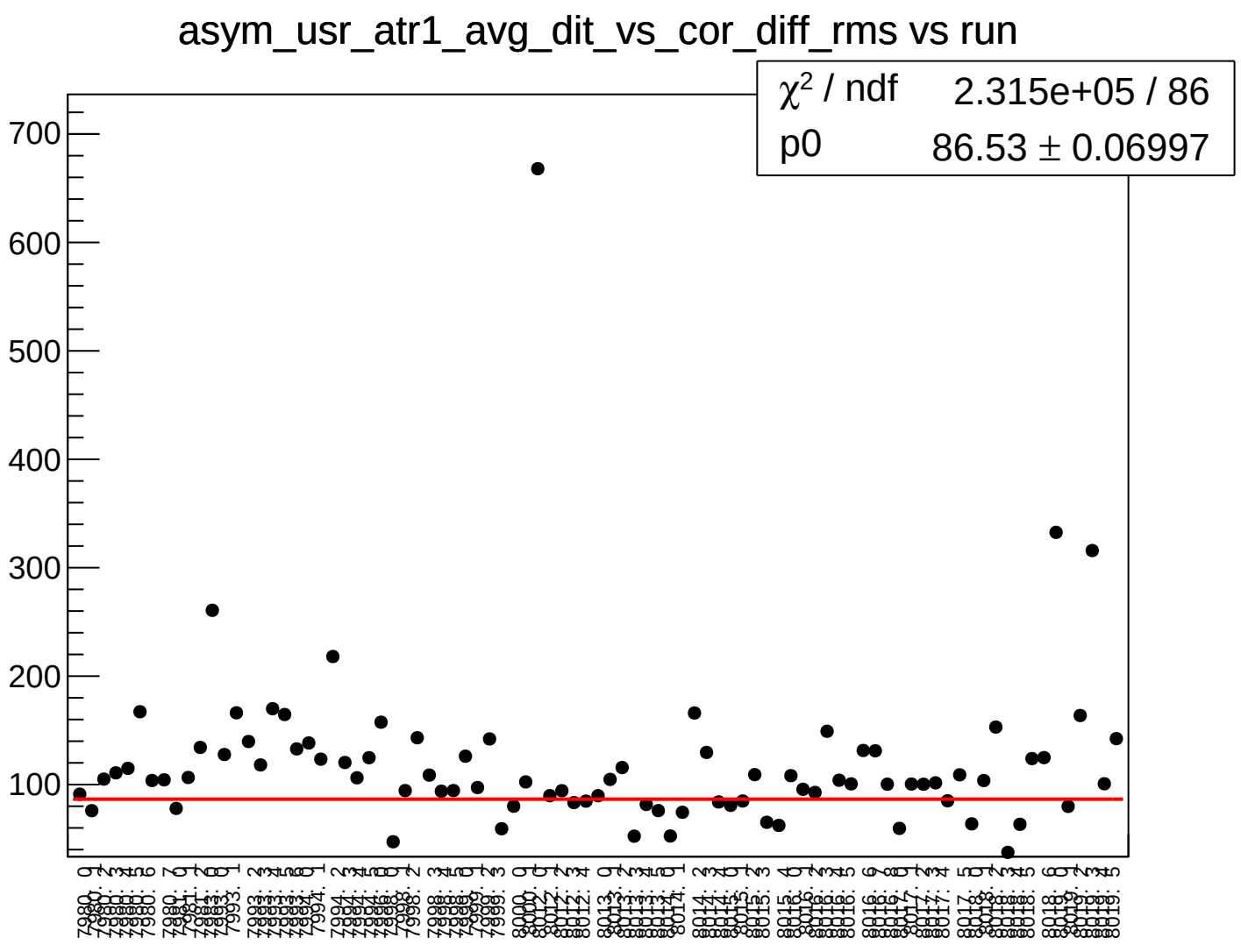

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.11 / 86
p0 −3.611e−13 ± 2.535e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 87
Mean −29.9
Std Dev 0
2
1
0
−1
−2

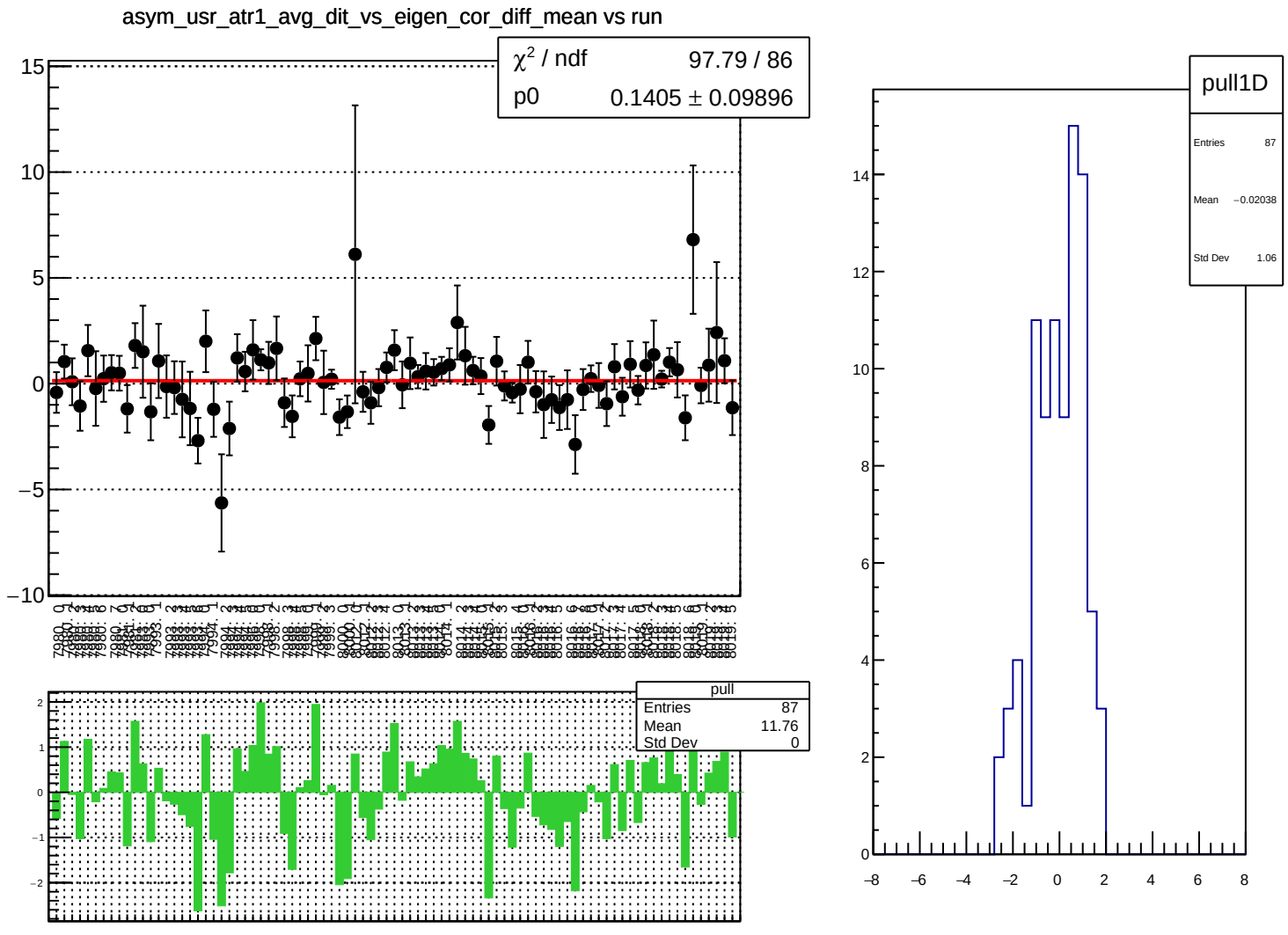

pull1D
Entries 87
Mean −0.04683
Std Dev 0.9704
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

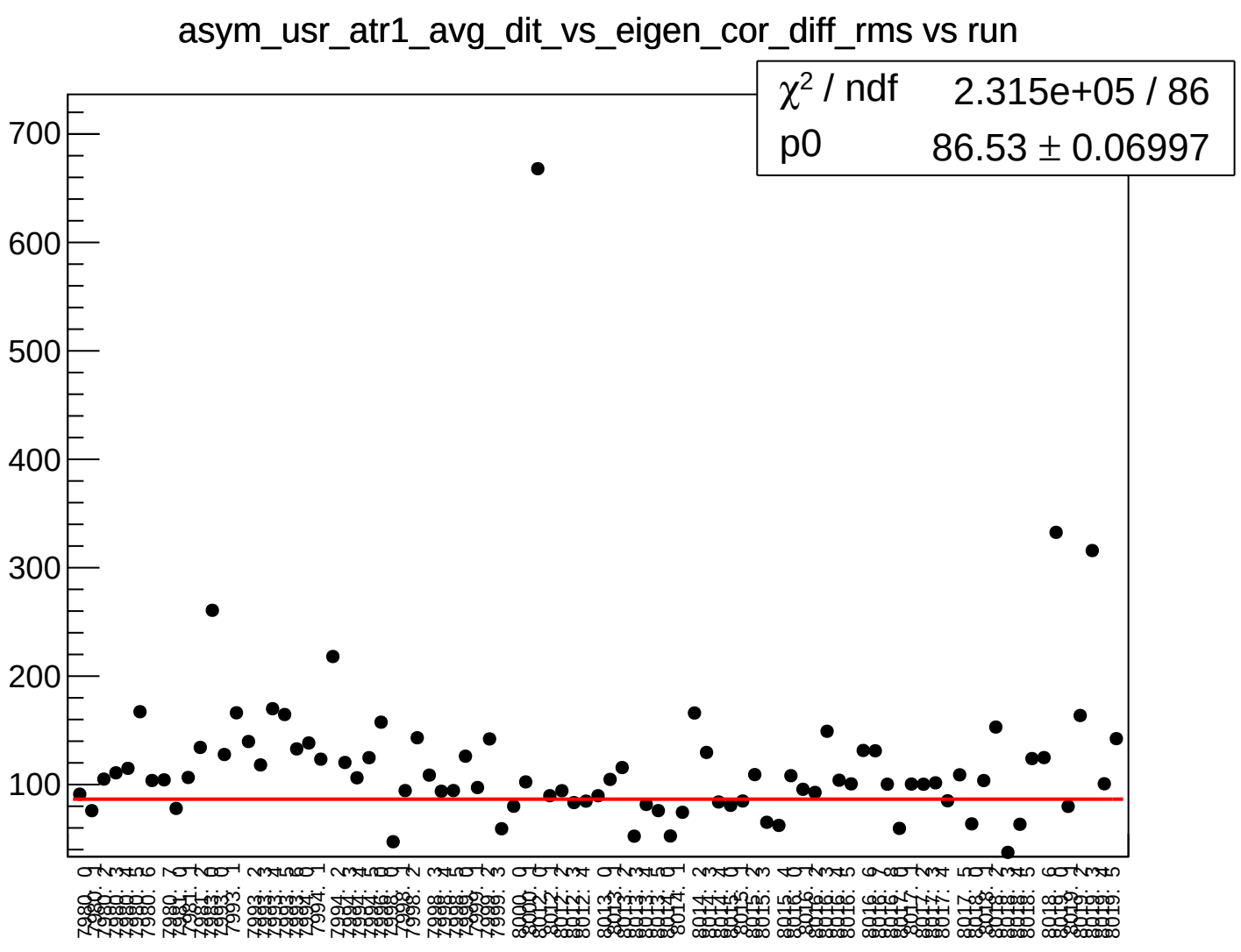

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.212e+06 / 86
p0 1.328e−10 ± 1.793e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

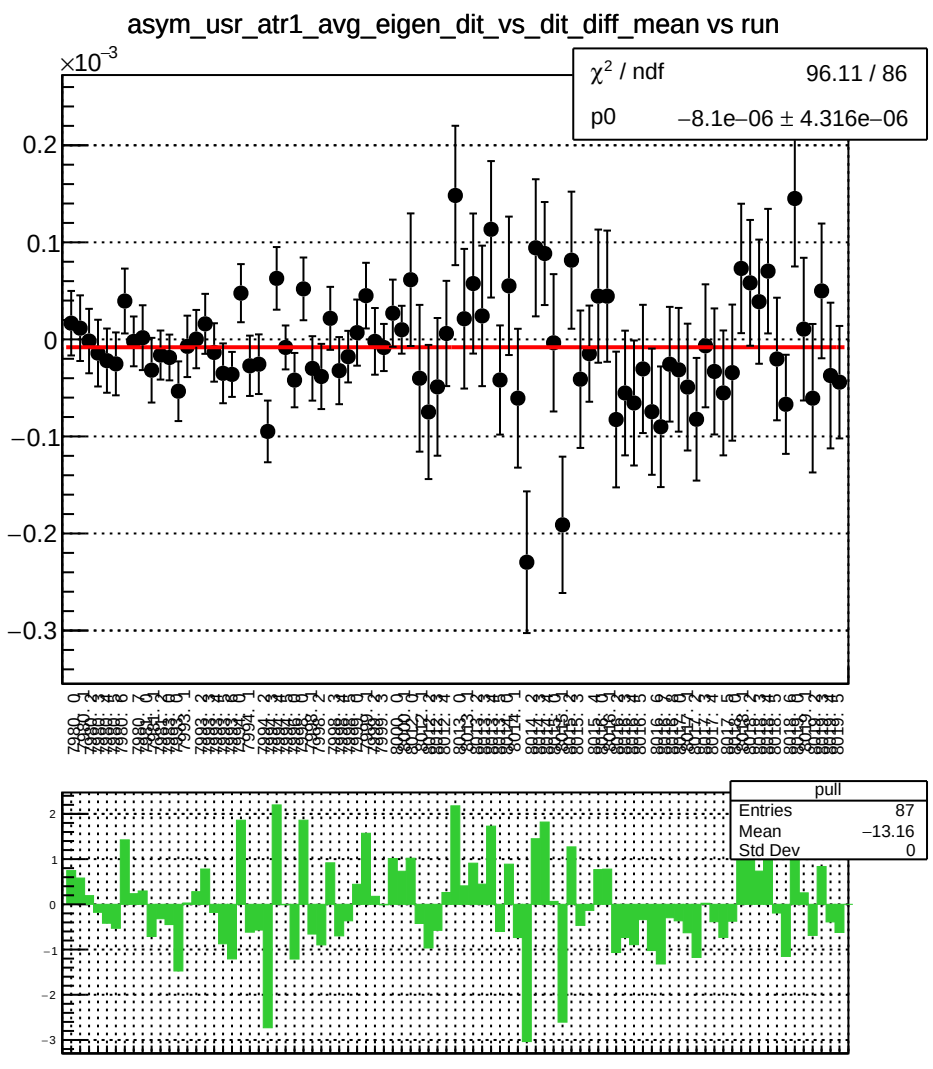

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.79 / 86
p0 0.1405 ± 0.09896
pull
Entries 87
Mean 11.76
Std Dev 0

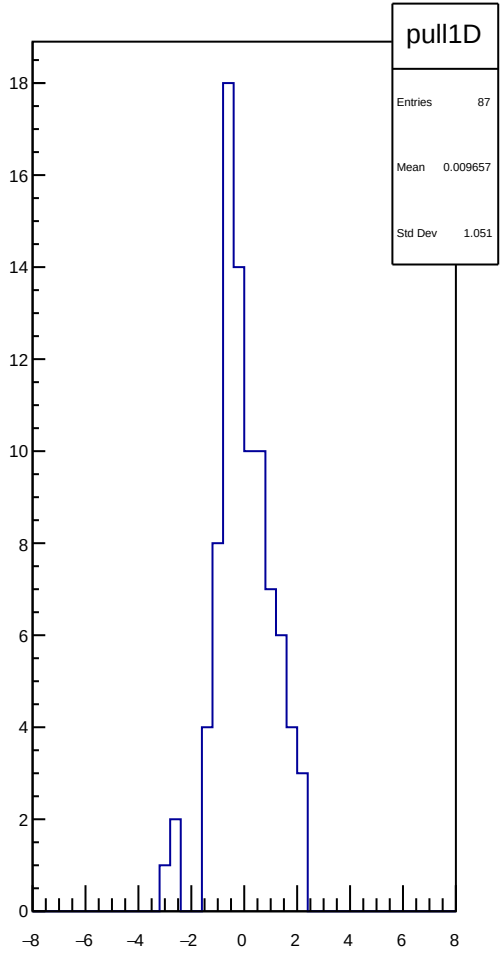

pull1D
Entries 87
Mean −0.02038
Std Dev 1.06

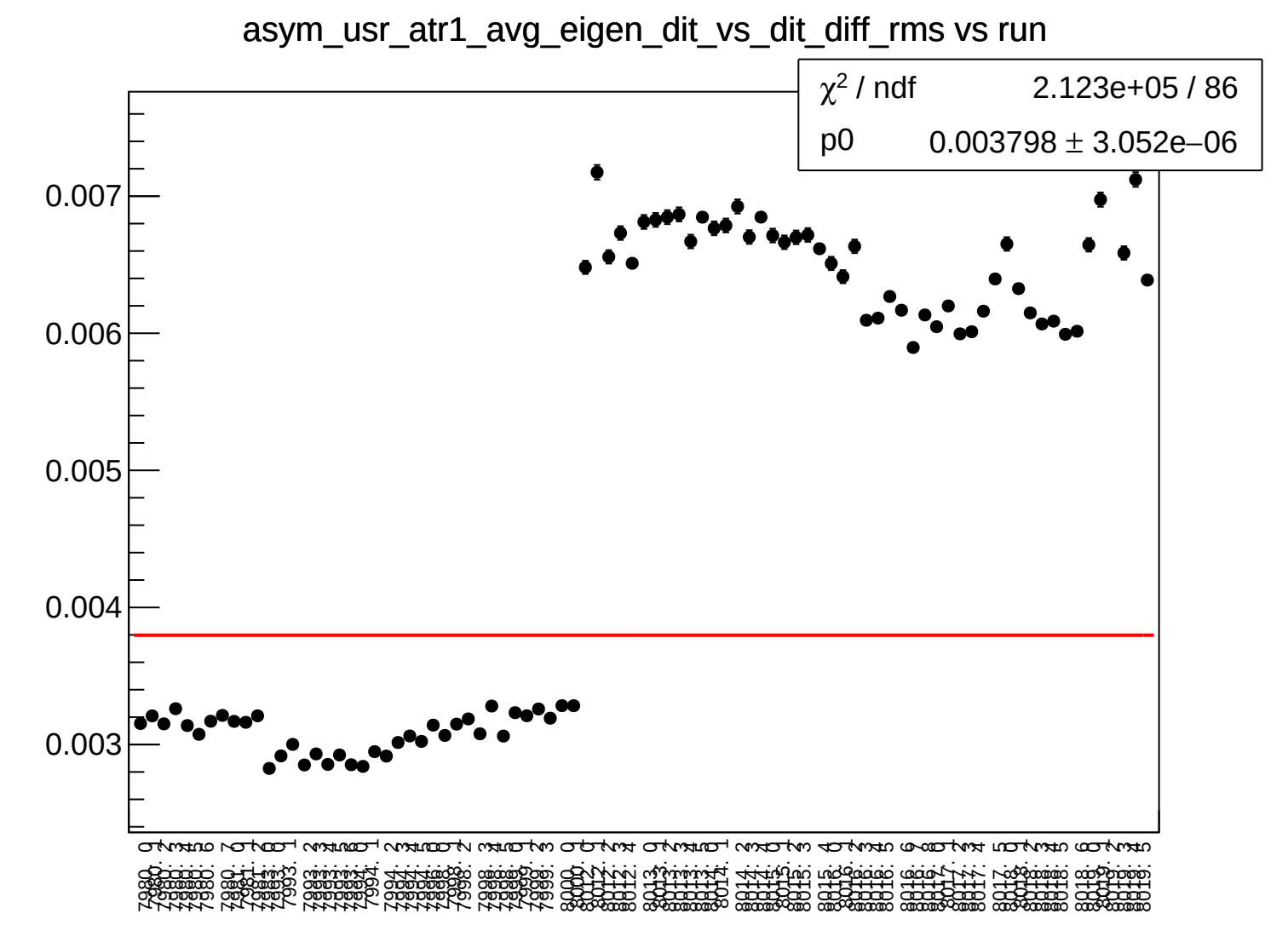

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.315e+05 / 86
p0 86.53 ± 0.06997
700
600
500
400
300
200
100

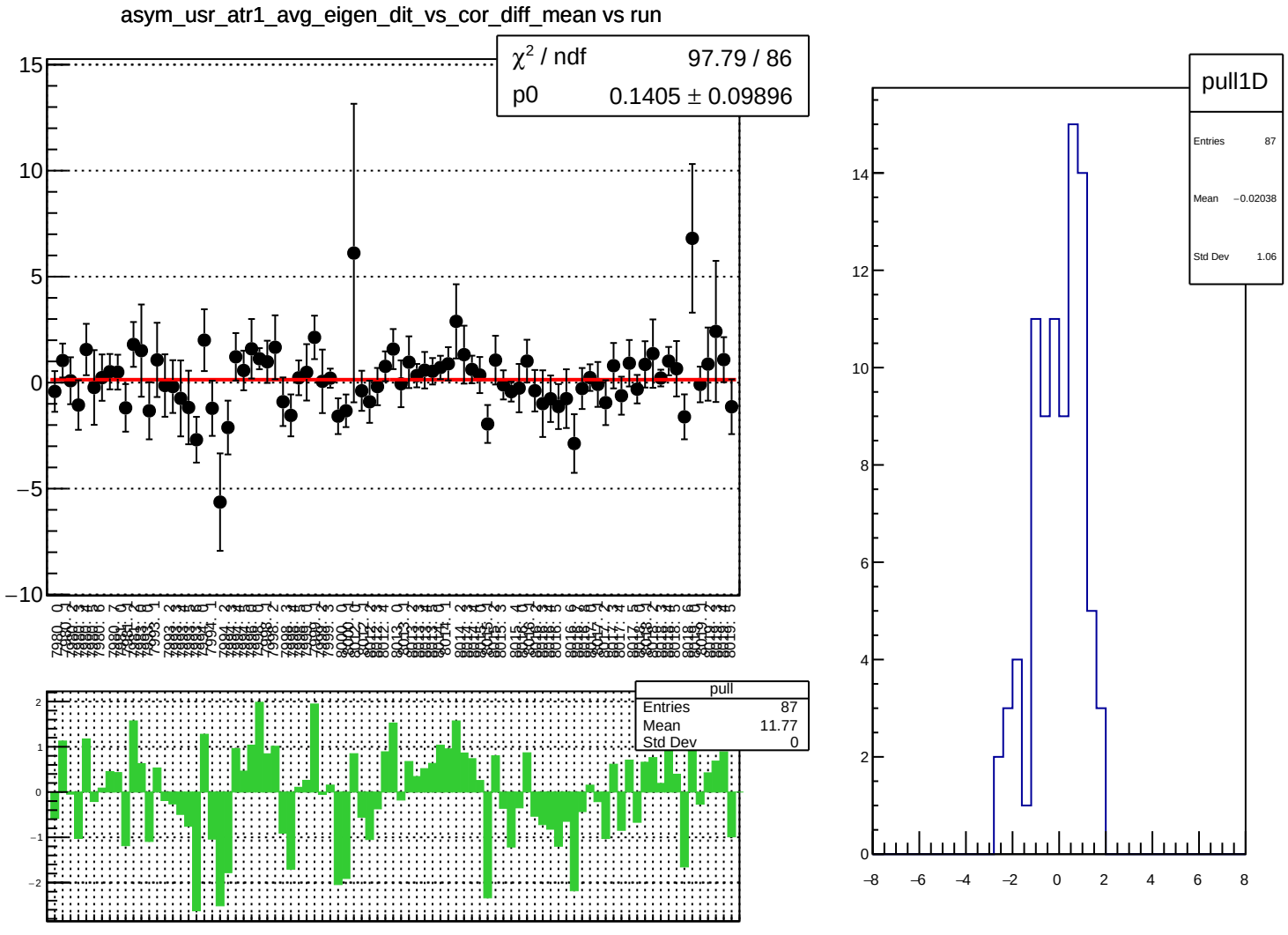

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.79 / 86
p0 0.1405 ± 0.09896
pull
Entries 87
Mean 11.76
Std Dev 0
pull1D
Entries 87
Mean −0.02038
Std Dev 1.06

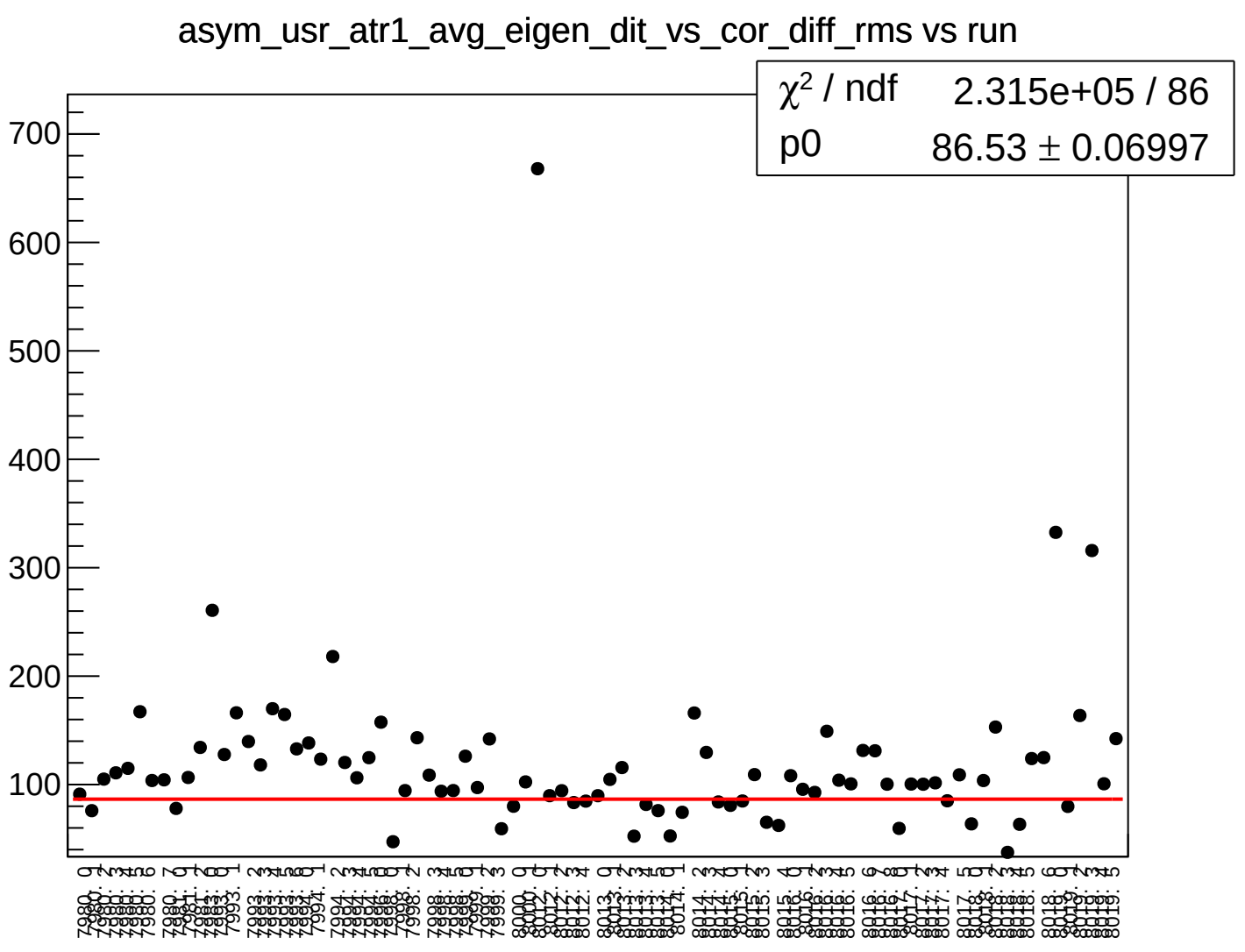

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.315e+05 / 86
p0 86.53 ± 0.06997
700
600
500
400
300
200
100

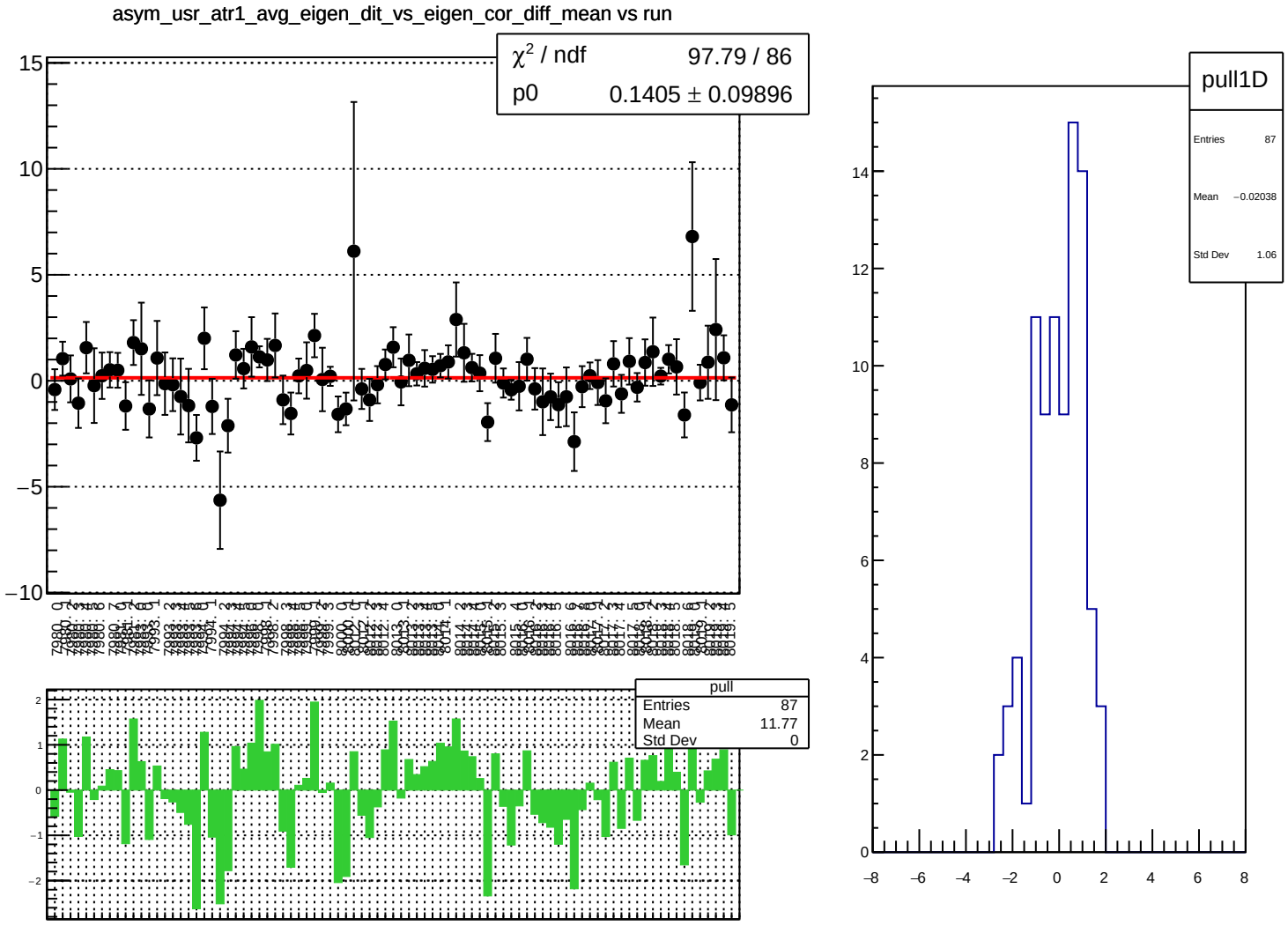

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.11 / 86
p0 −8.1e−06 ± 4.316e−06
pull
Entries 87
Mean −13.16
Std Dev 0

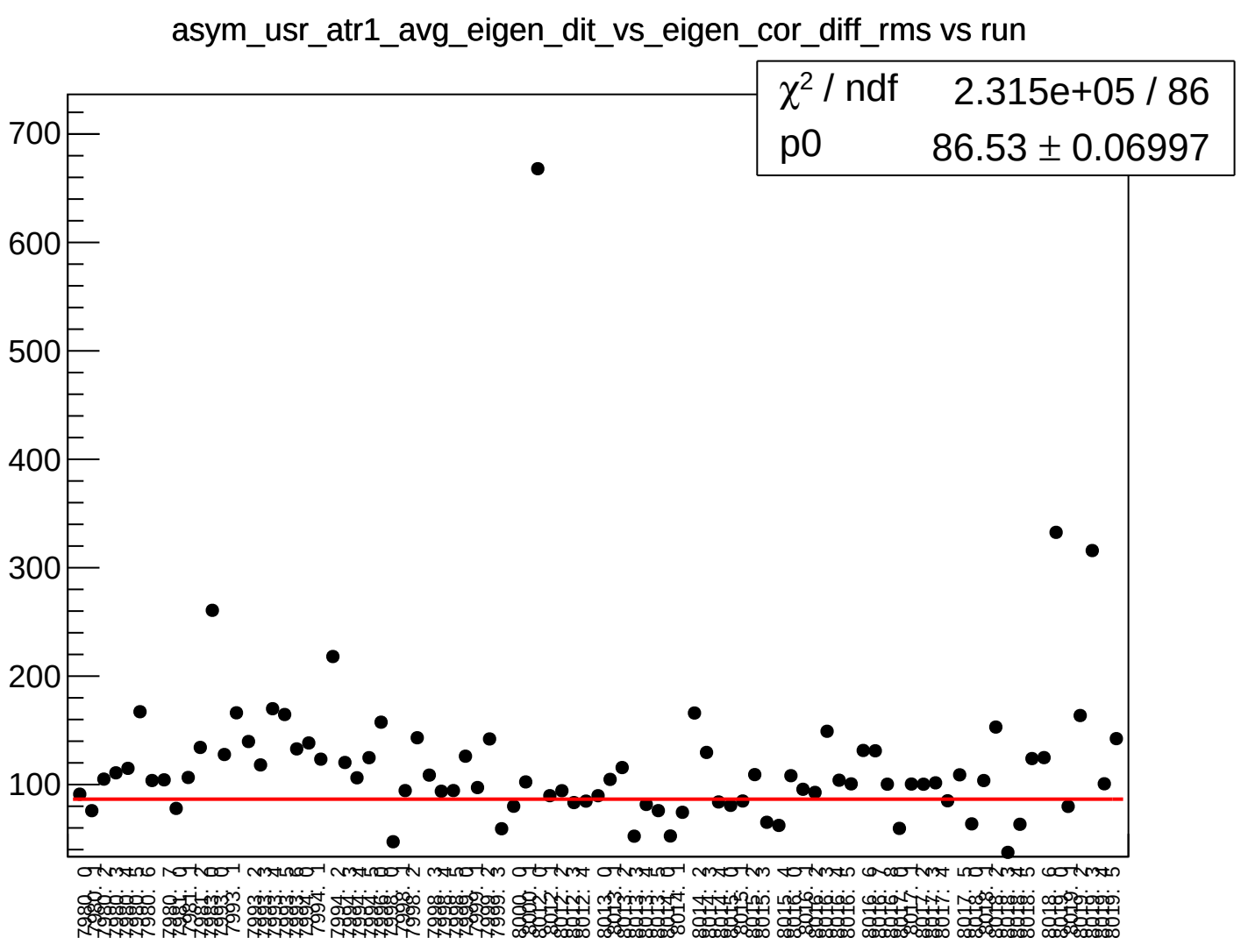

pull1D
Entries 87
Mean 0.009657
Std Dev 1.051

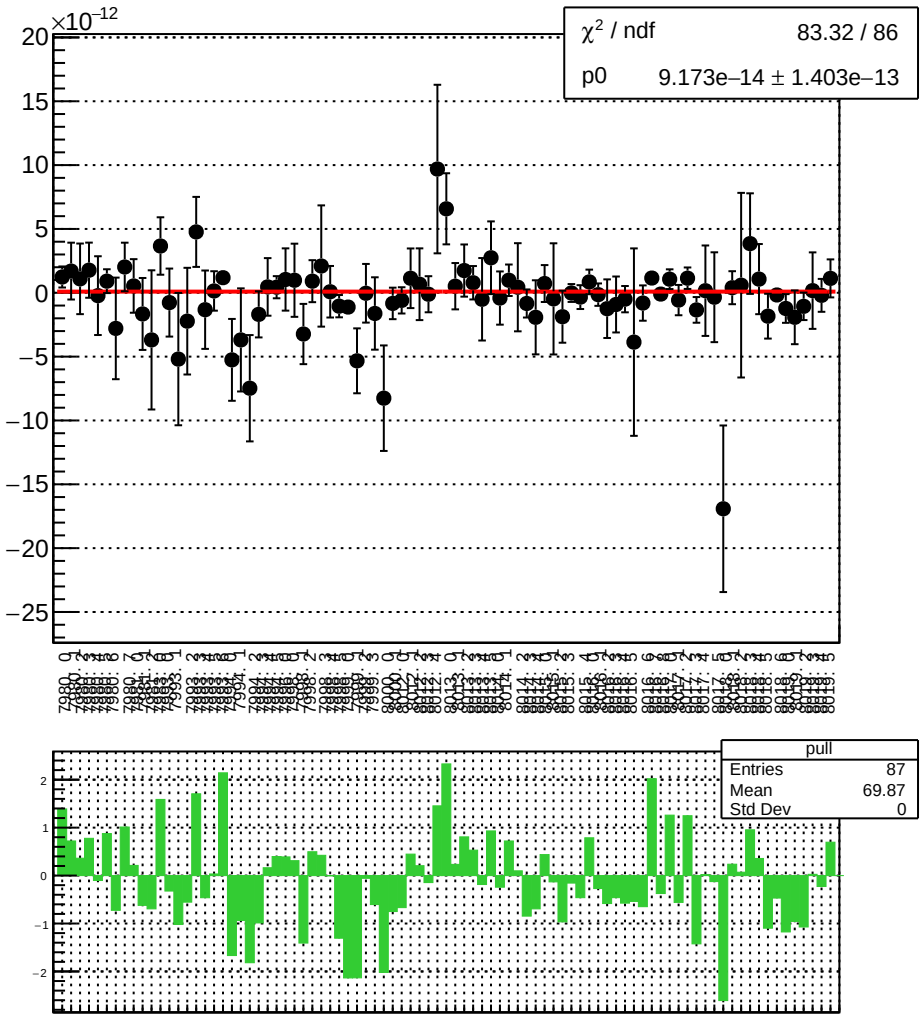

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.123e+05 / 86
p0 0.003798 ± 3.052e−06
0.007
0.006
0.005
0.004
0.003

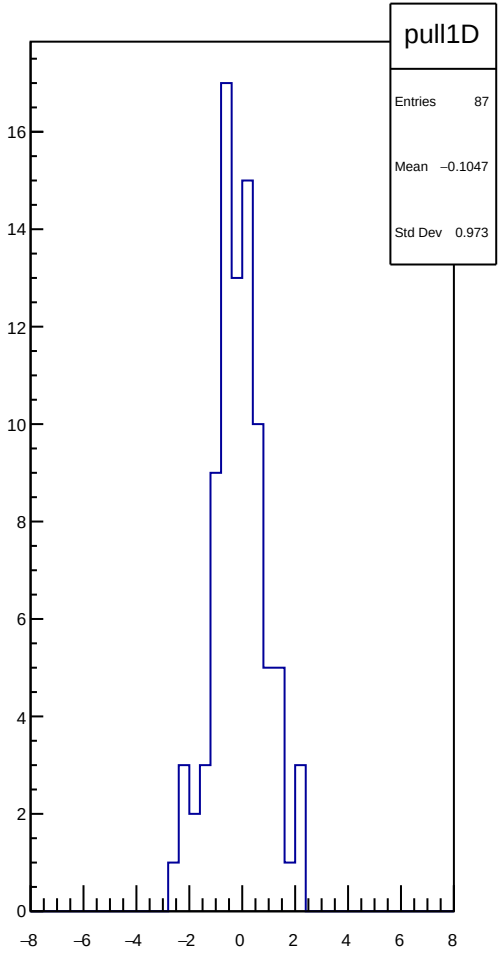

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.79 / 86
p0 0.1405 ± 0.09896
pull
Entries 87
Mean 11.77
Std Dev 0
pull1D
Entries 87
Mean −0.02038
Std Dev 1.06

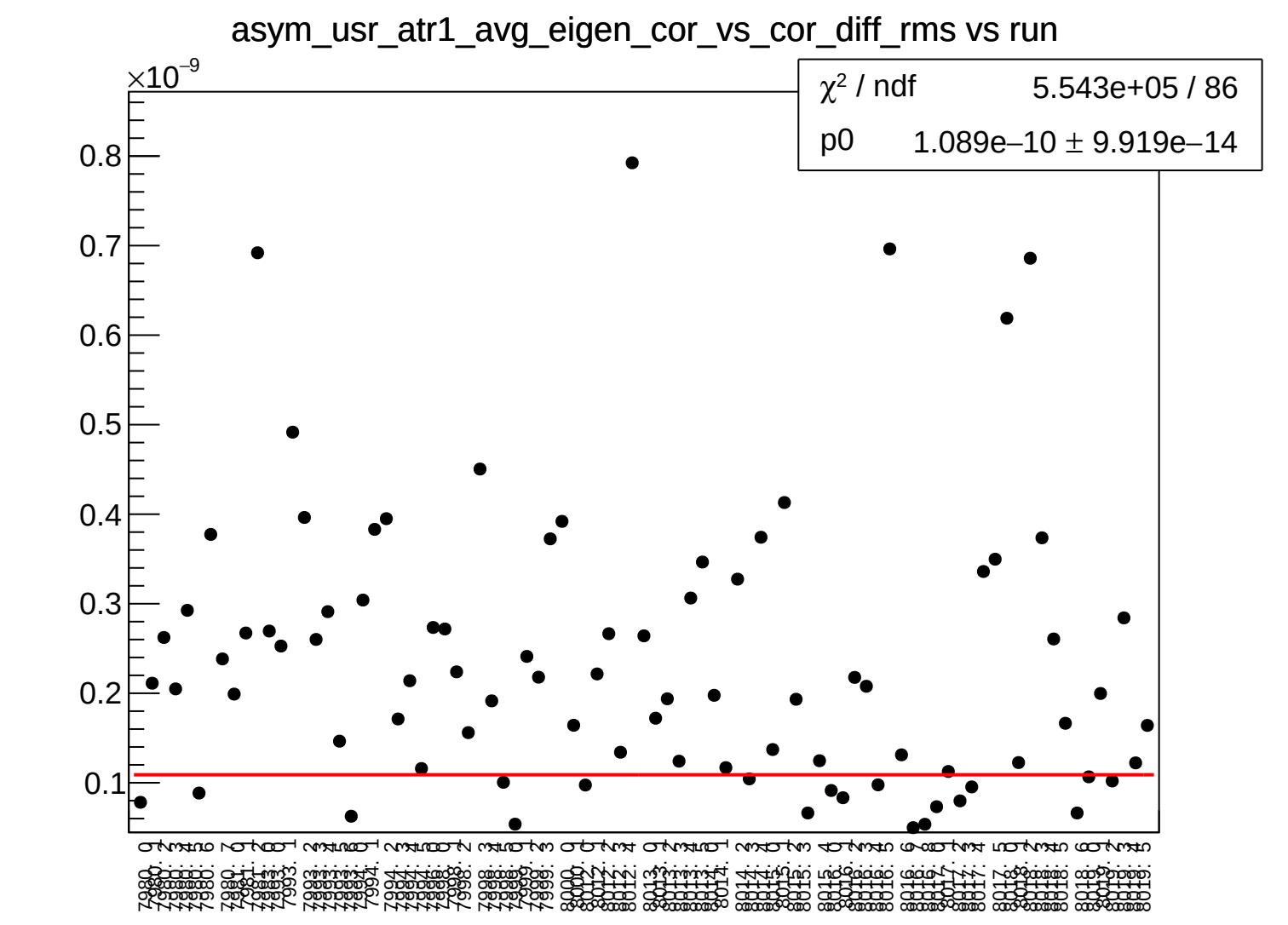

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.315e+05 / 86
p0 86.53 ± 0.06997
700
600
500
400
300
200
100

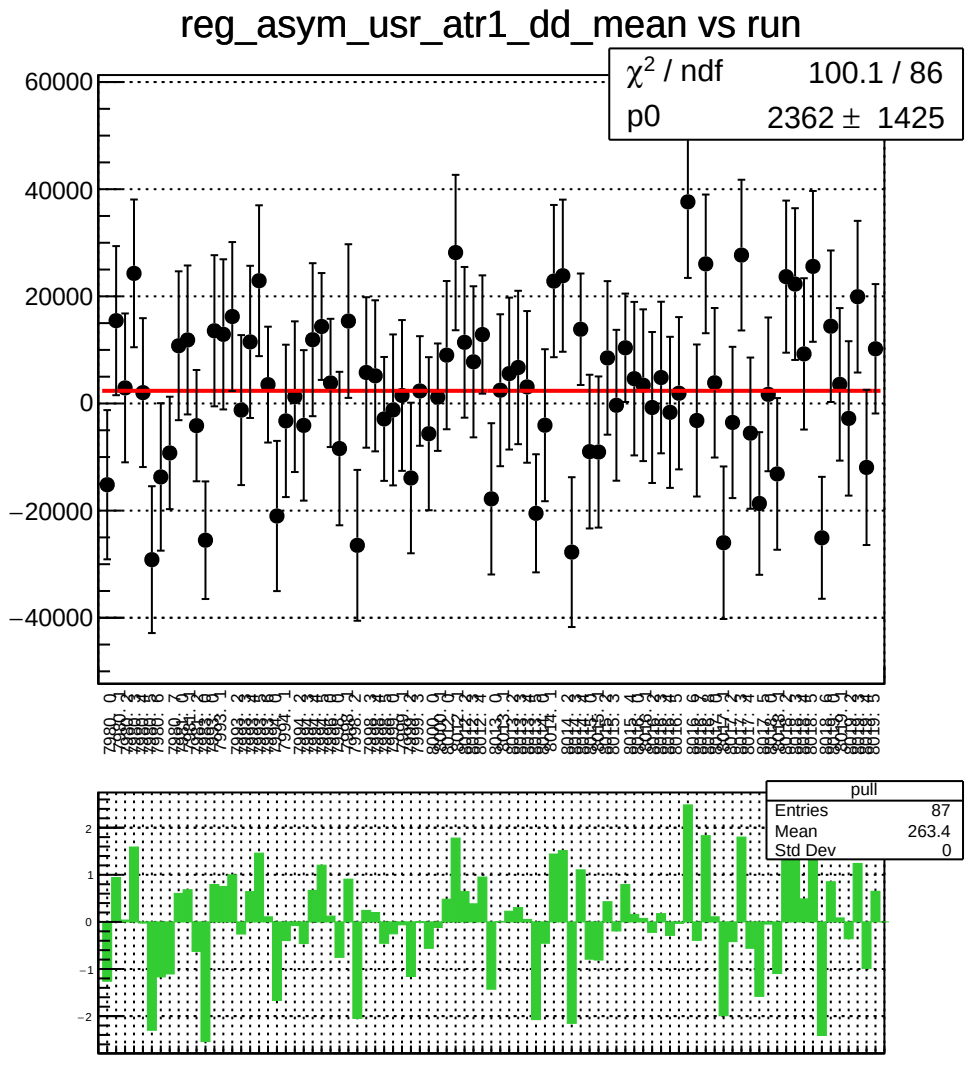

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.79 / 86
p0 0.1405 ± 0.09896
pull
Entries 87
Mean 11.77
Std Dev 0
pull1D
Entries 87
Mean −0.02038
Std Dev 1.06

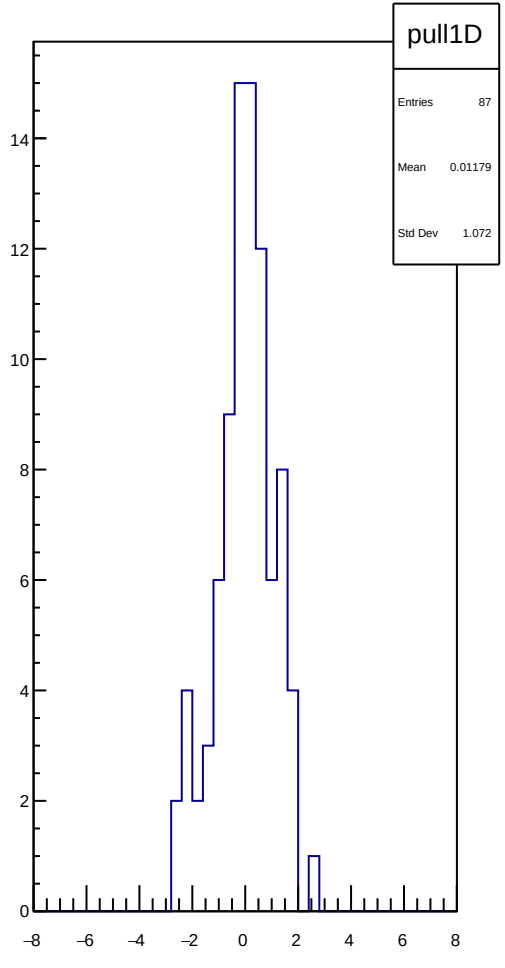

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.315e+05 / 86
p0 86.53 ± 0.06997
700
600
500
400
300
200
100

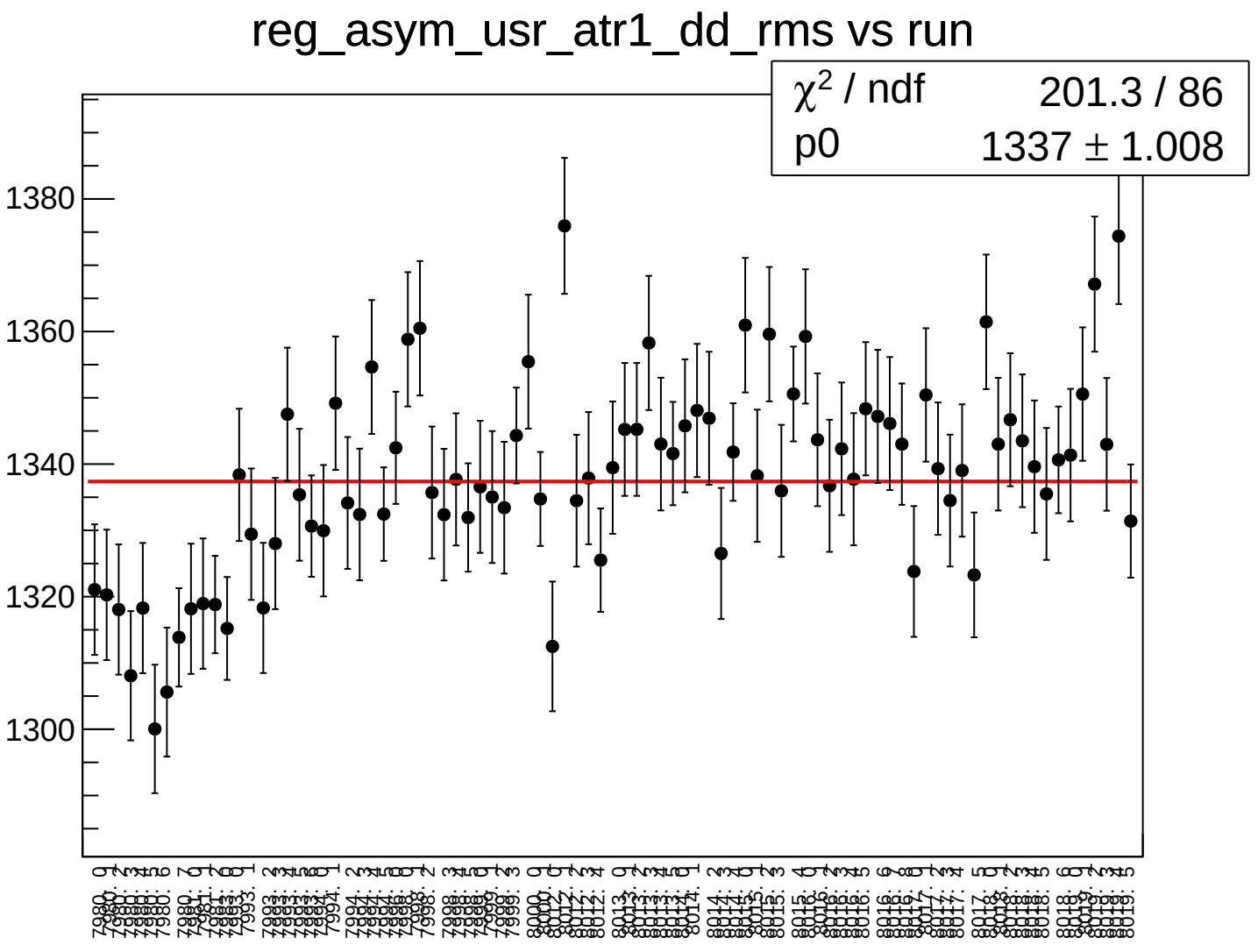

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.32 / 86
p0 9.173e−14 ± 1.403e−13
pull
Entries 87
Mean 69.87
Std Dev 0

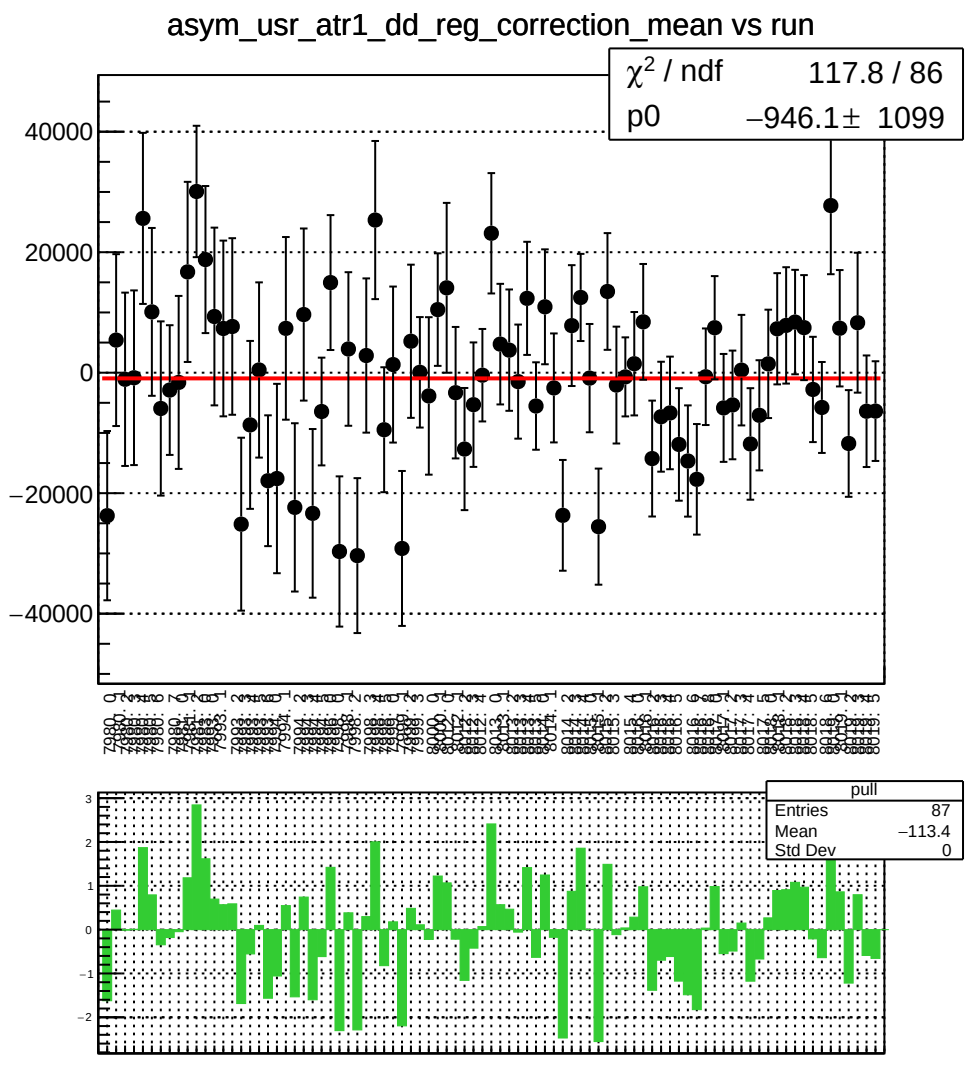

pull1D
Entries 87
Mean −0.1047
Std Dev 0.973

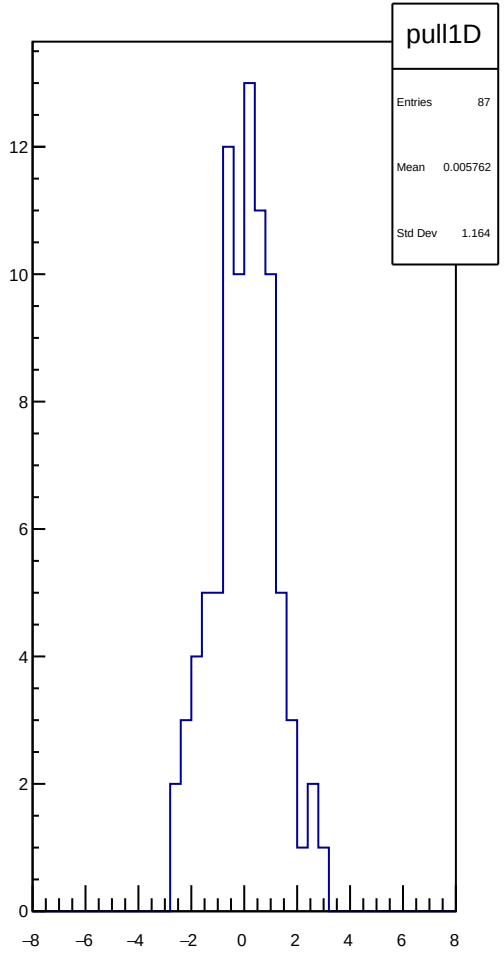

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.543e+05 / 86
p0 1.089e−10 ± 9.919e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

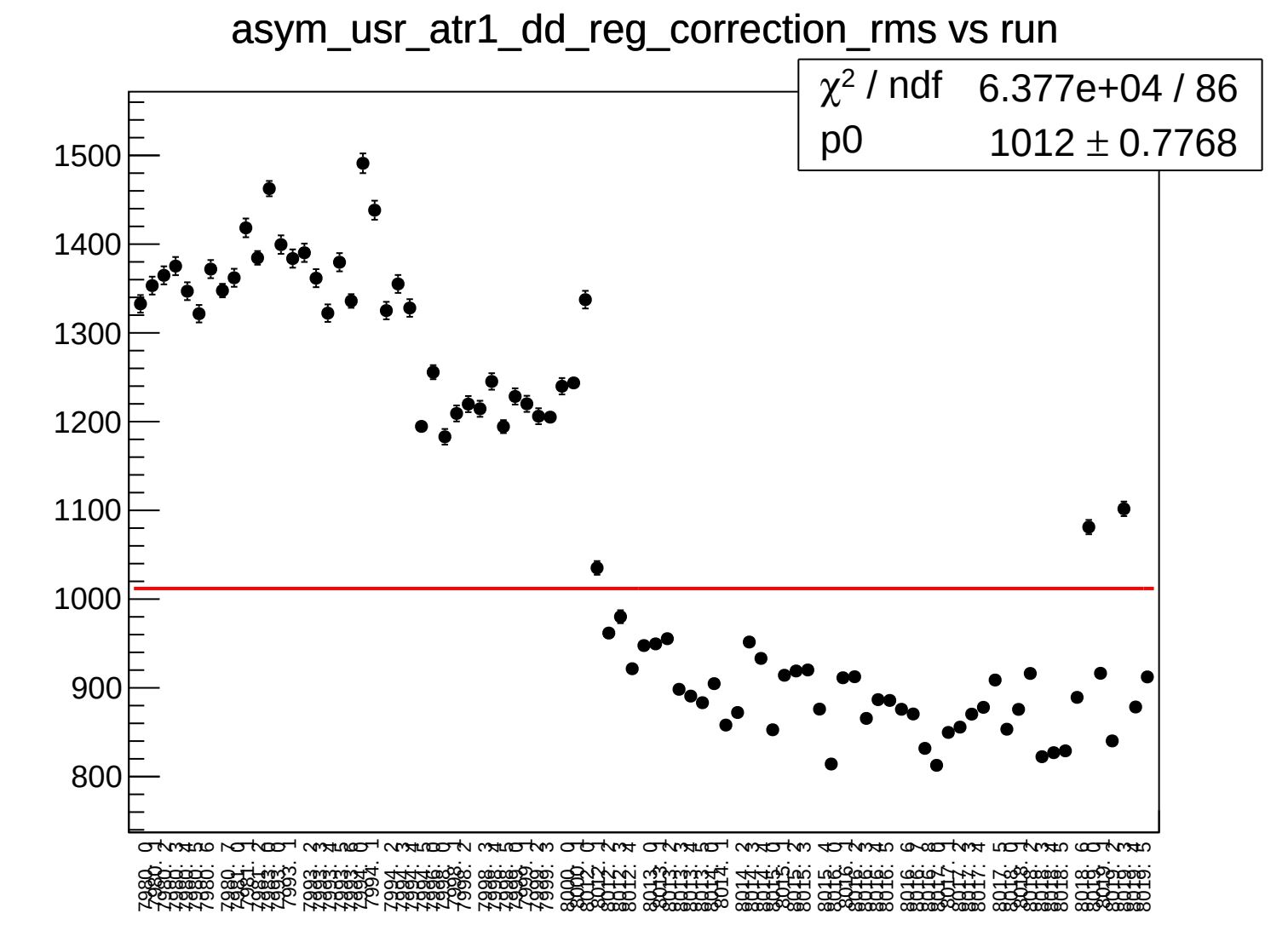

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 100.1 / 86
p0 2362 ± 1425
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 263.4
Std Dev 0
2
1
0
−1
−2

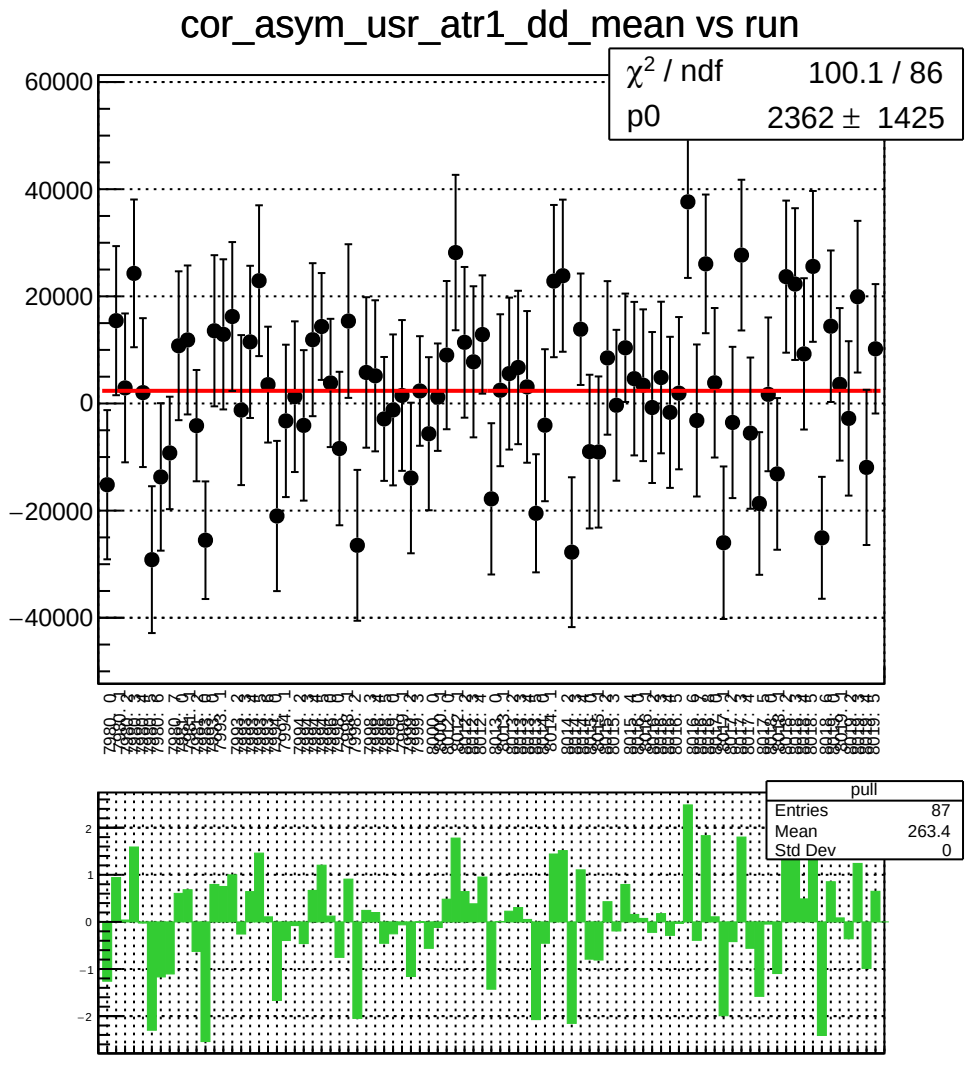

pull1D
Entries 87
Mean 0.01179
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

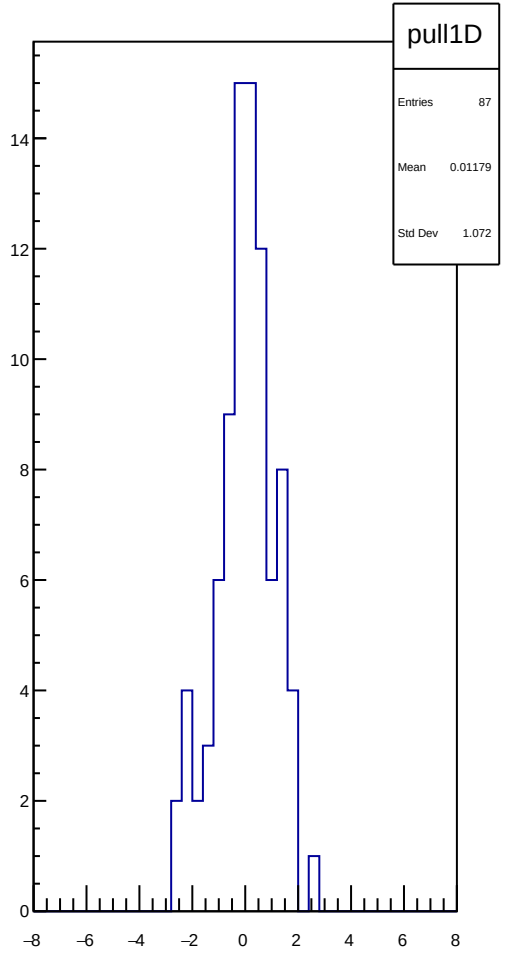

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 201.3 / 86
p0 1337 ± 1.008
1380
1360
1340
1320
1300

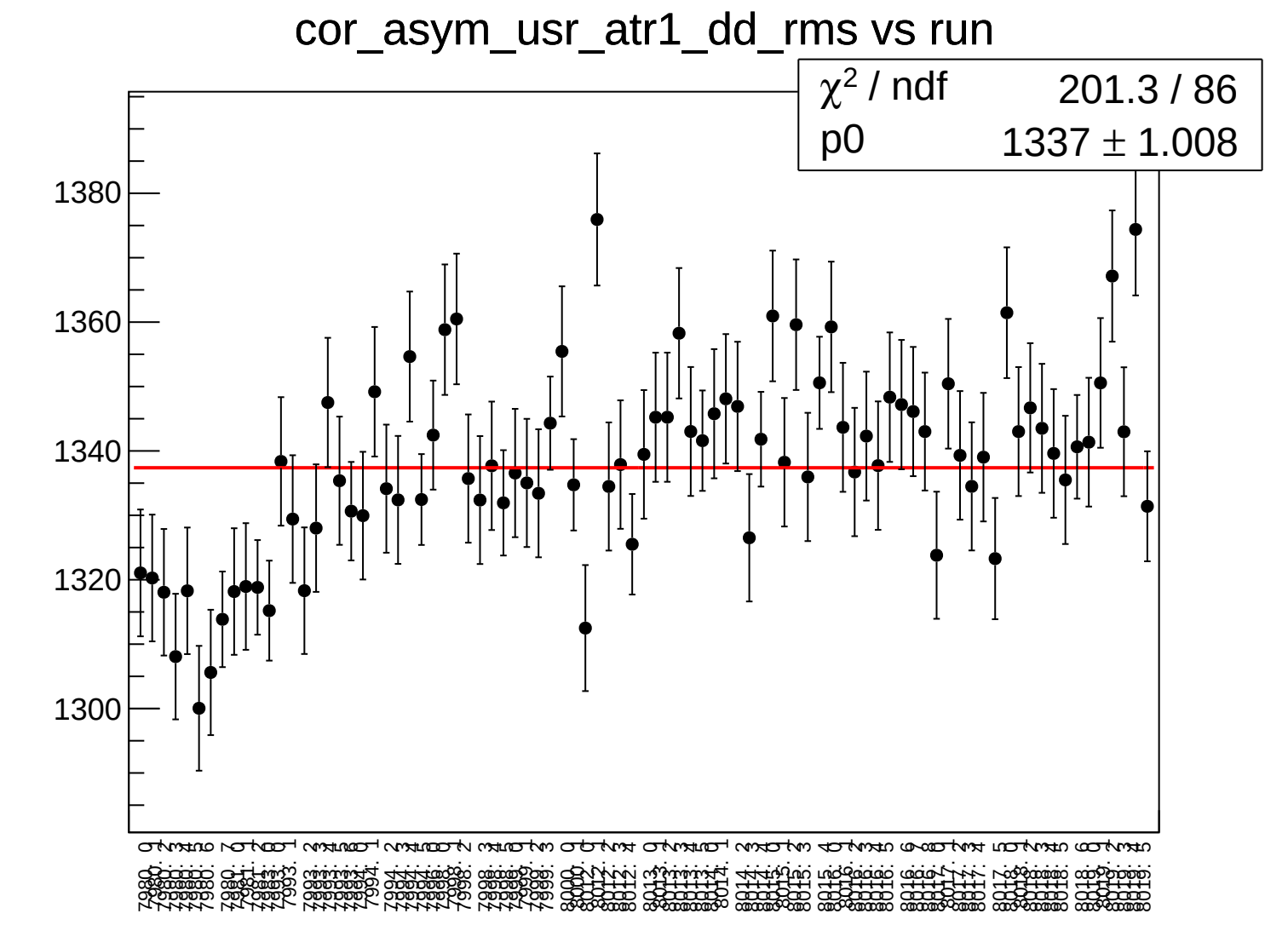

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 117.8 / 86
p0 −946.1± 1099
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −113.4
Std Dev 0
3
2
1
0
−1
−2

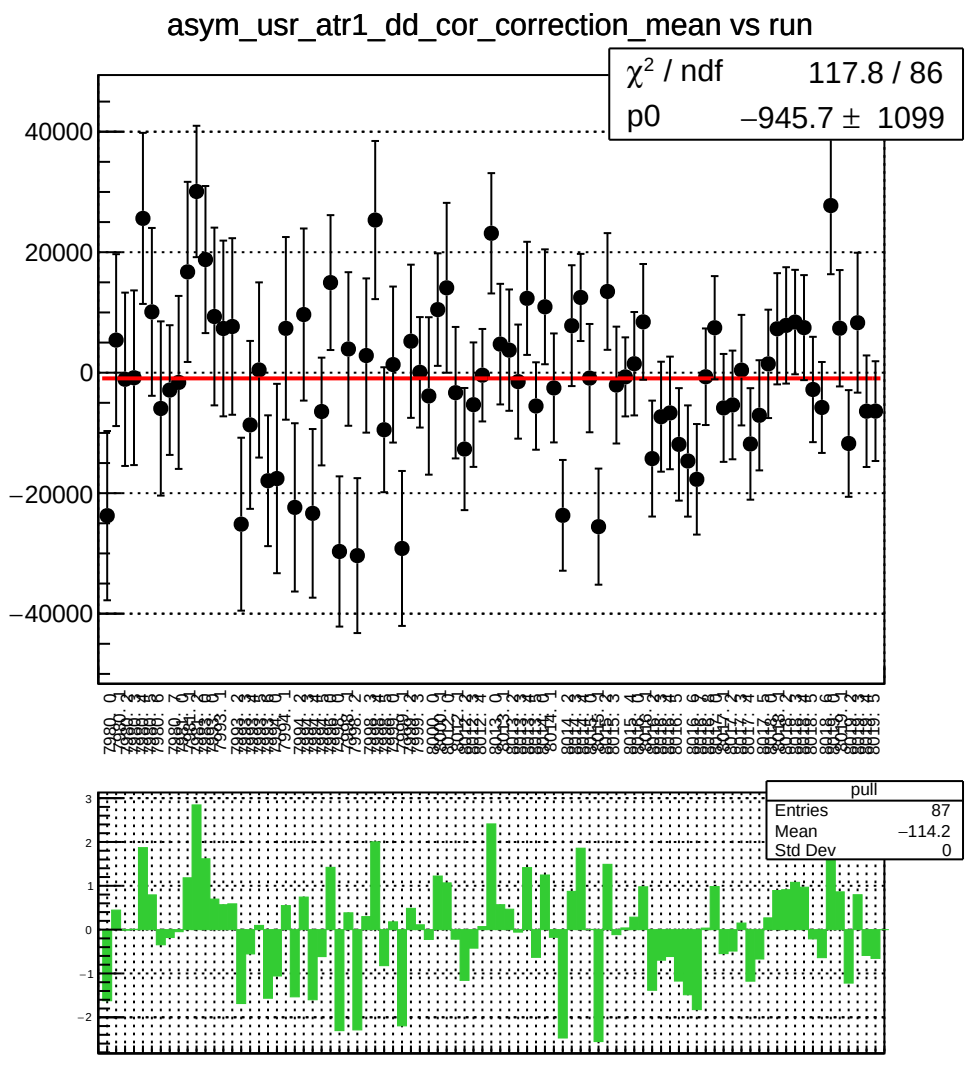

pull1D
Entries 87
Mean 0.005762
Std Dev 1.164
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

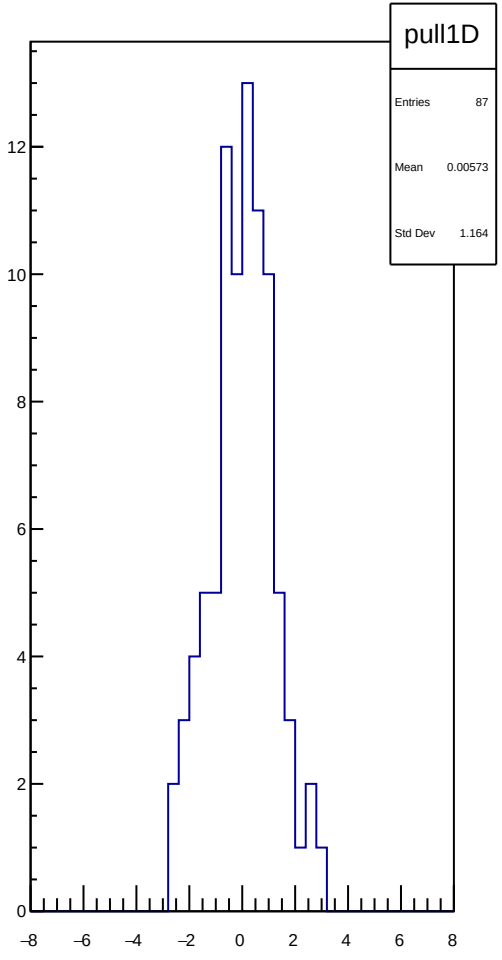

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 6.377e+04 / 86
p0 1012 ± 0.7768
1500
1400
1300
1200
1100
1000
900
800

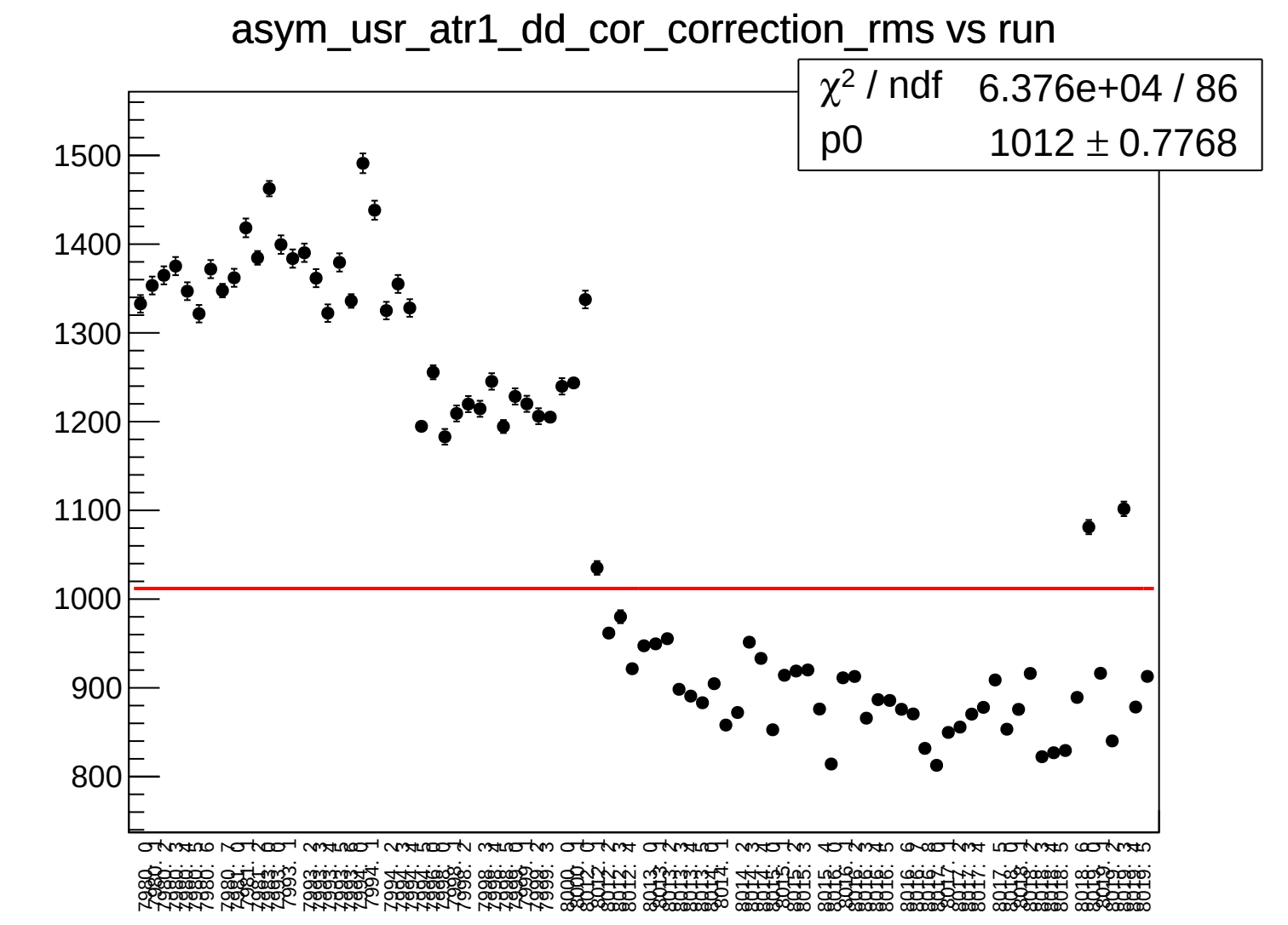

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 100.1 / 86
p0 2362 ± 1425
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 263.4
Std Dev 0
2
1
0
−1
−2

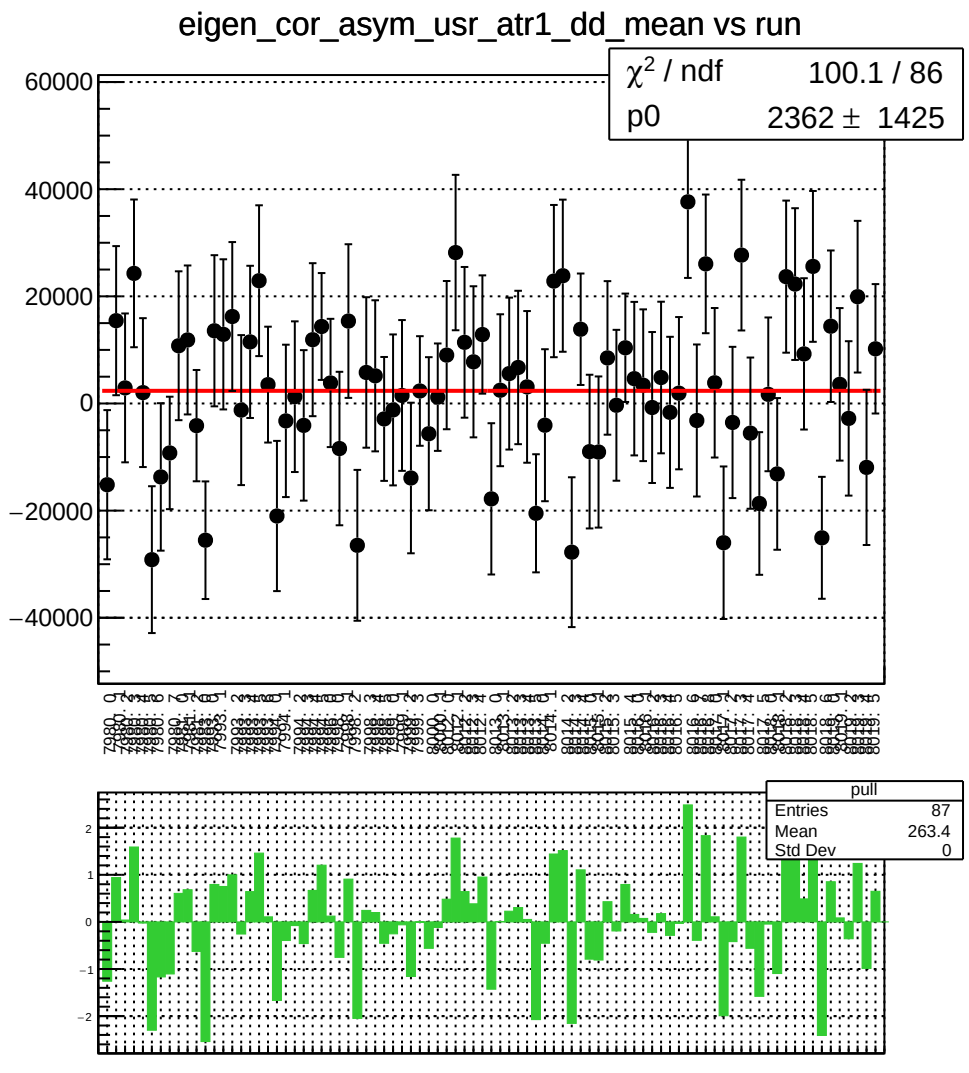

pull1D
Entries 87
Mean 0.01179
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

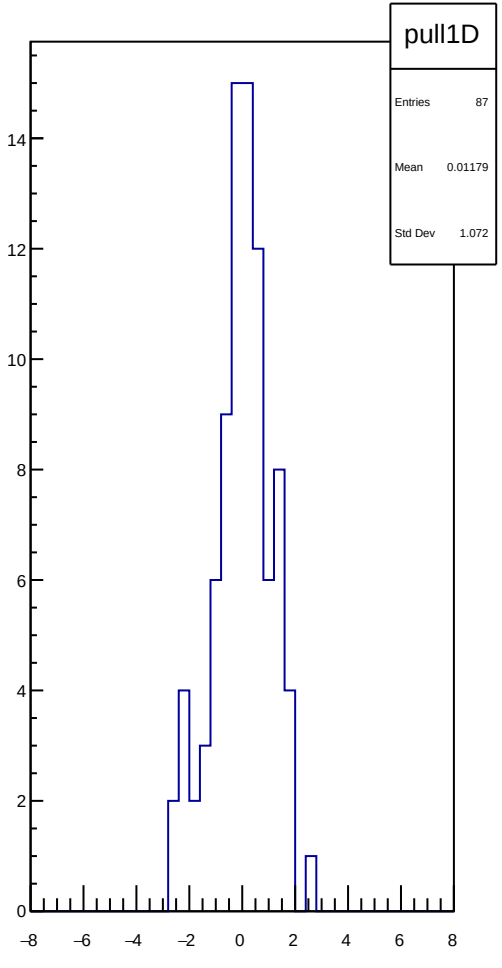

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 201.3 / 86
p0 1337 ± 1.008
1380
1360
1340
1320
1300

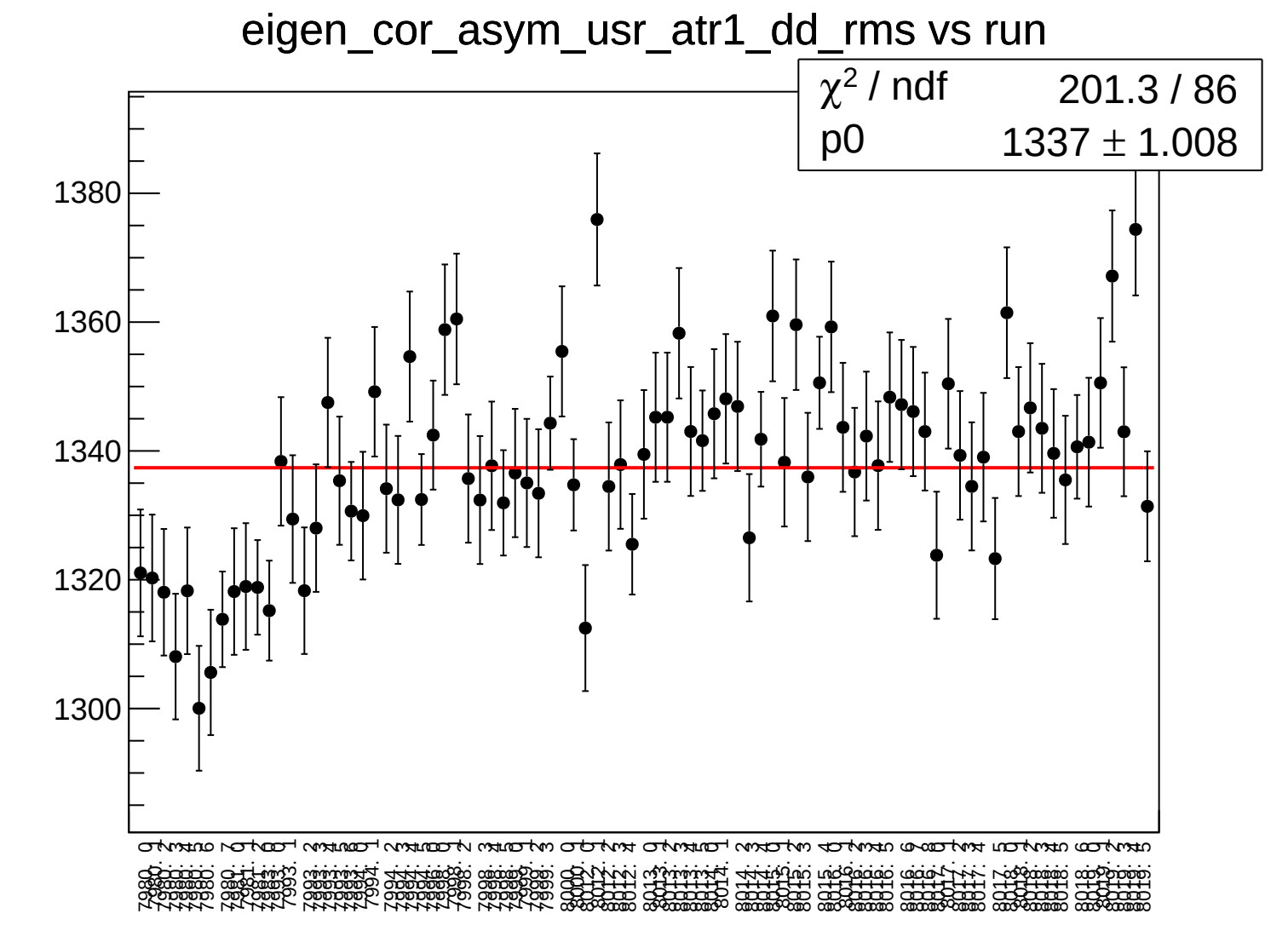

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 117.8 / 86
p0 −945.7 ± 1099
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −114.2
Std Dev 0
3
2
1
0
−1
−2

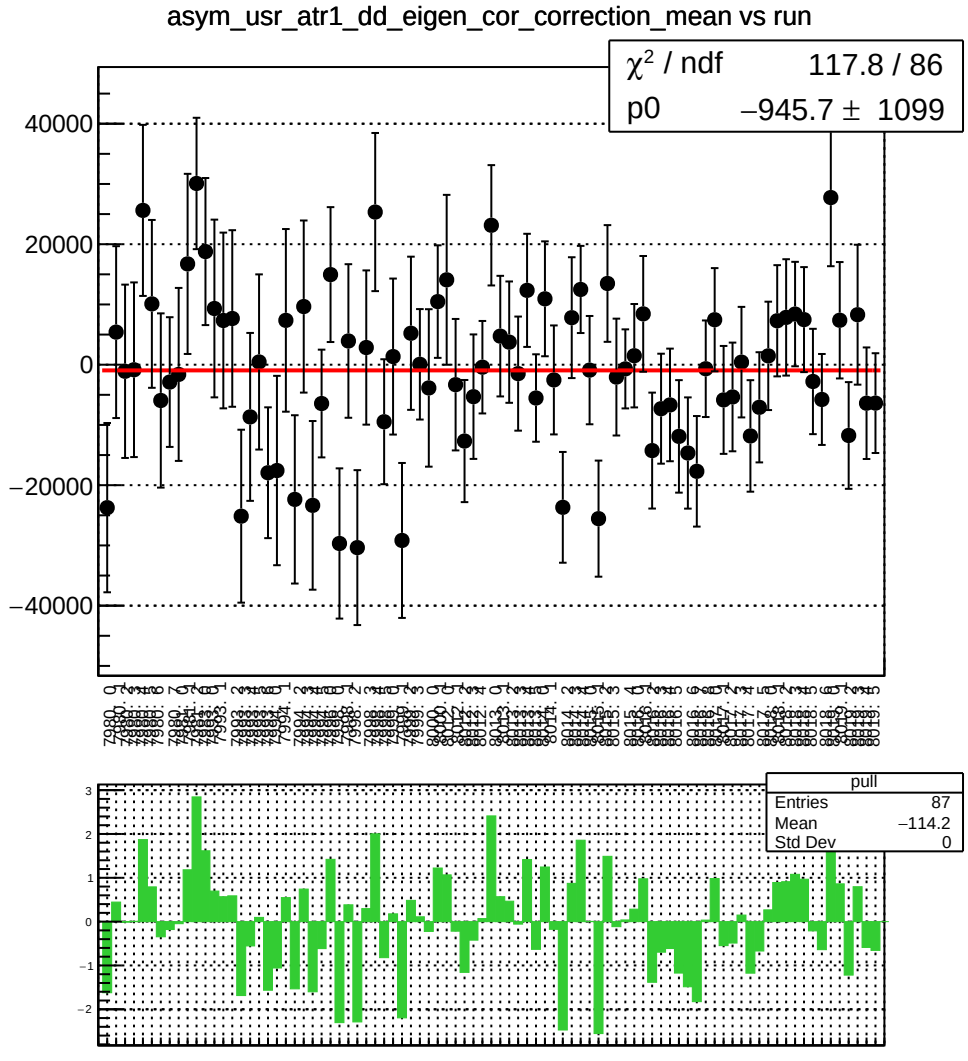

pull1D
Entries 87
Mean 0.00573
Std Dev 1.164
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

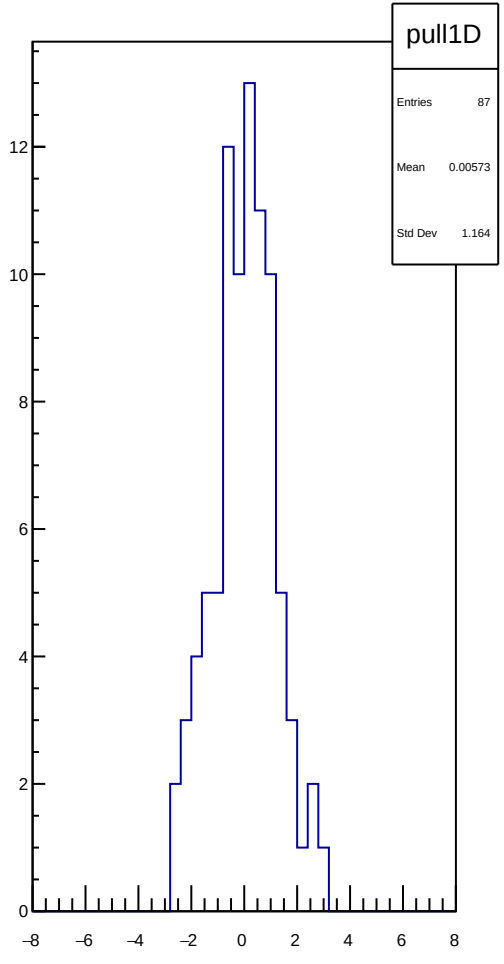

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 6.376e+04 / 86
p0 1012 ± 0.7768
1500
1400
1300
1200
1100
1000
900
800

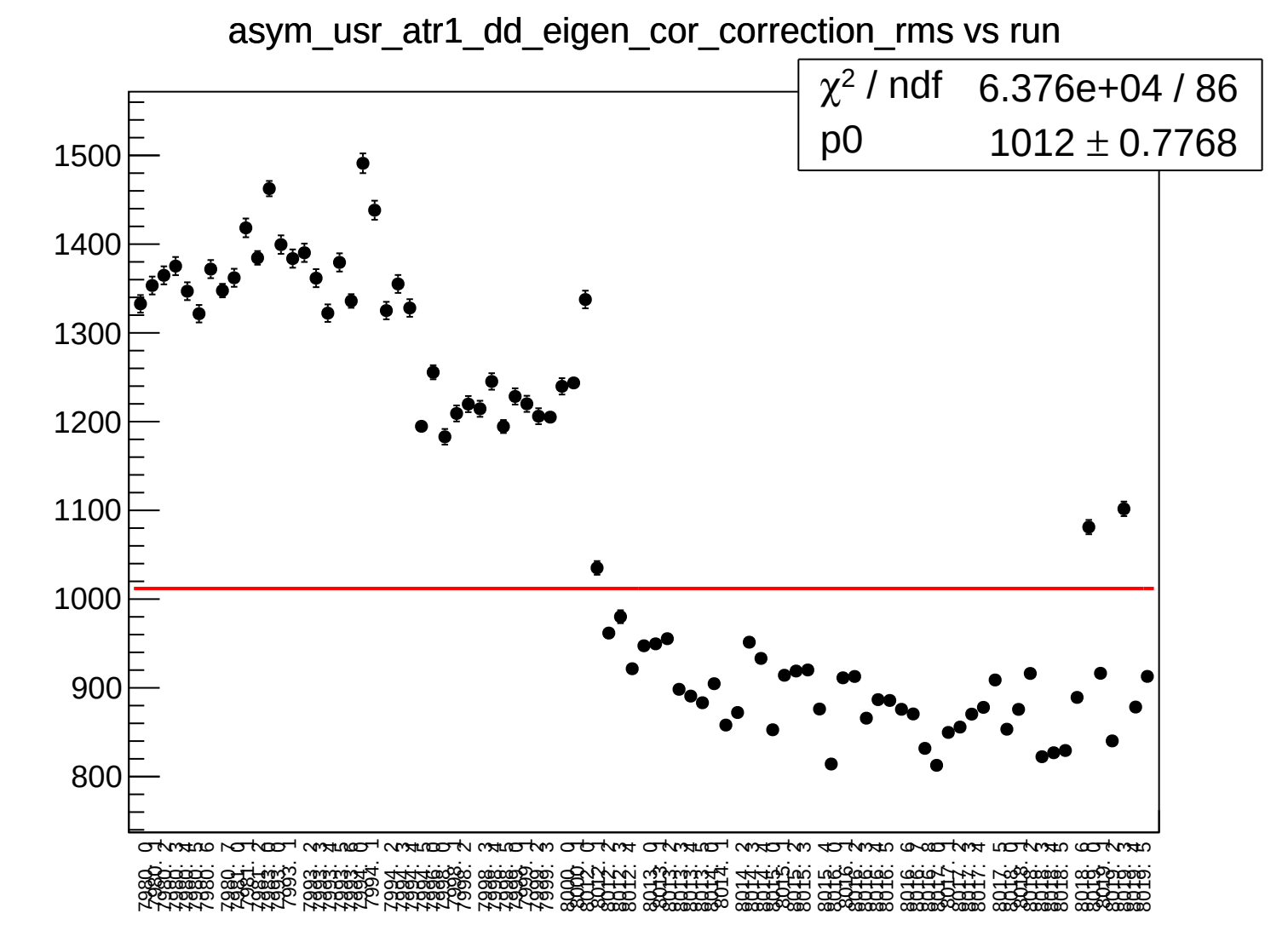

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 100.1 / 86
p0 2362 ± 1425
pull
Entries 87
Mean 263.4
Std Dev 0

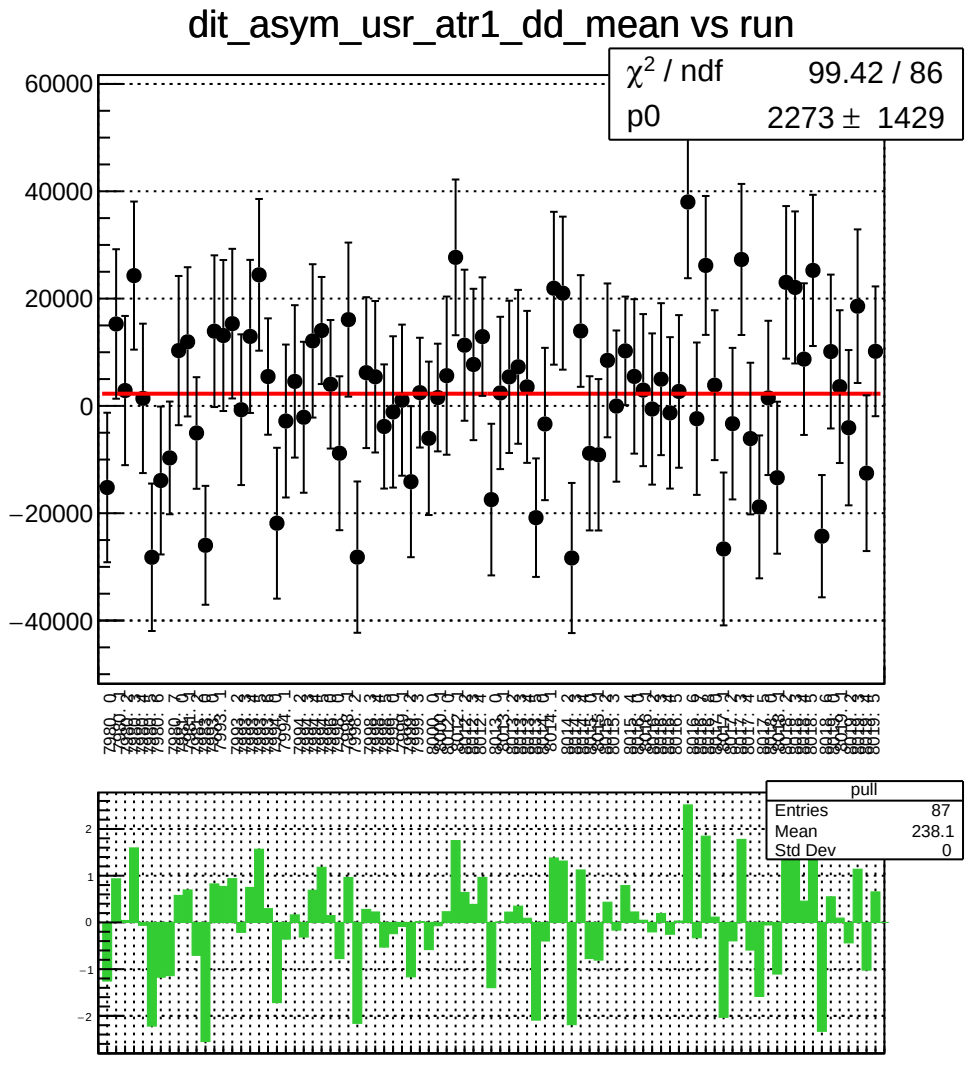

pull1D
Entries 87
Mean 0.01179
Std Dev 1.072

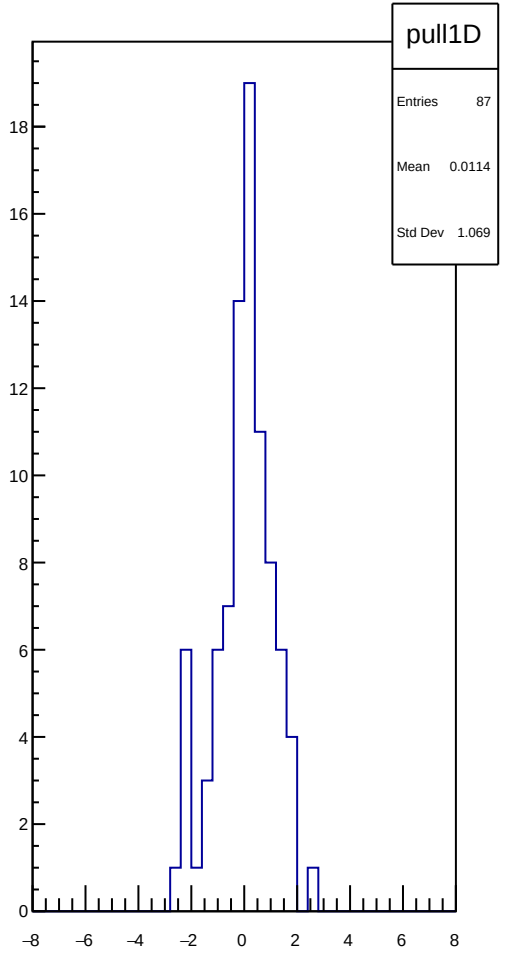

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 201.3 / 86
p0 1337 ± 1.008
1380
1360
1340
1320
1300

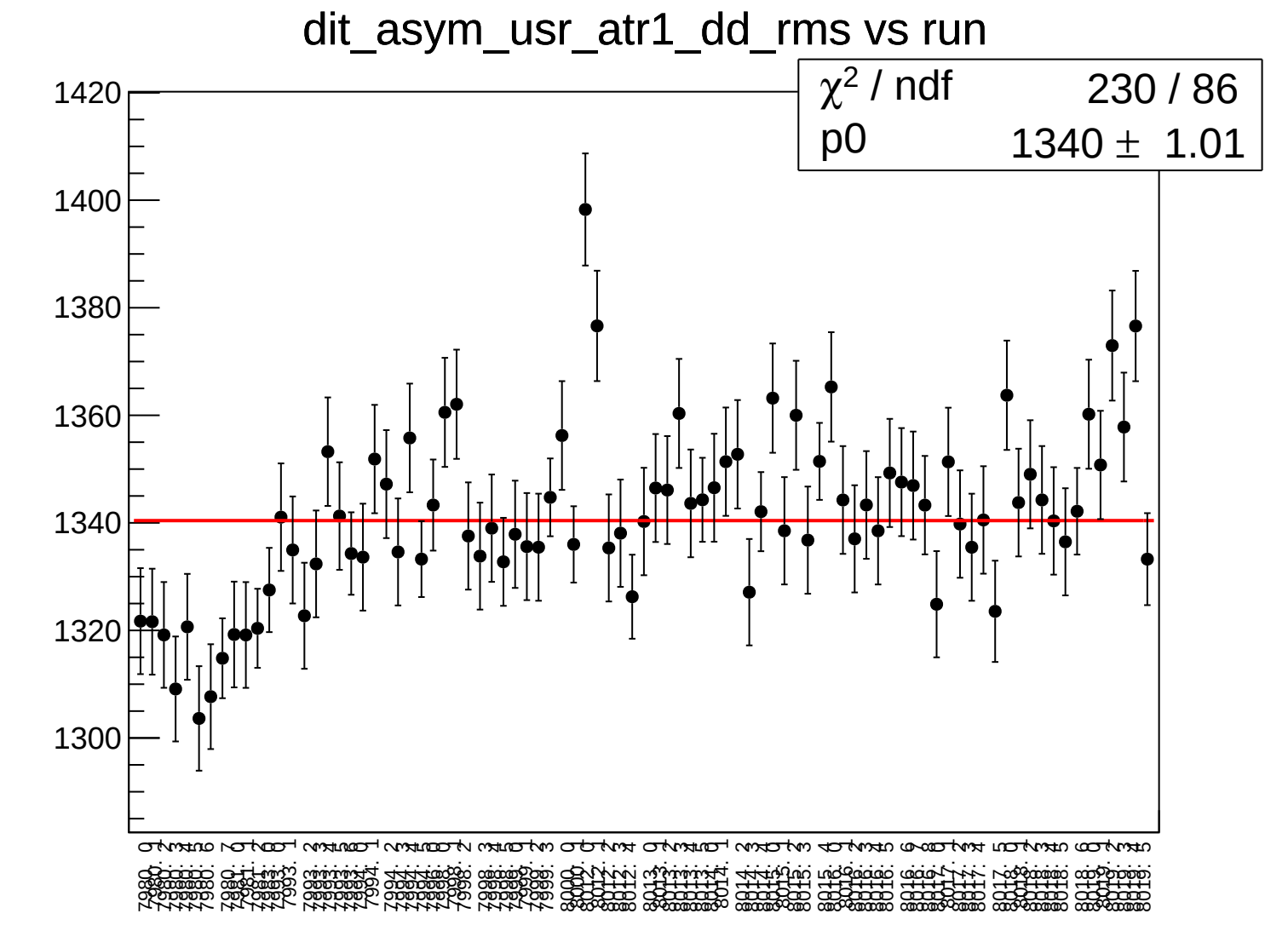

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 117.8 / 86
p0 −945.7 ± 1099
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −114.2
Std Dev 0
3
2
1
0
−1
−2

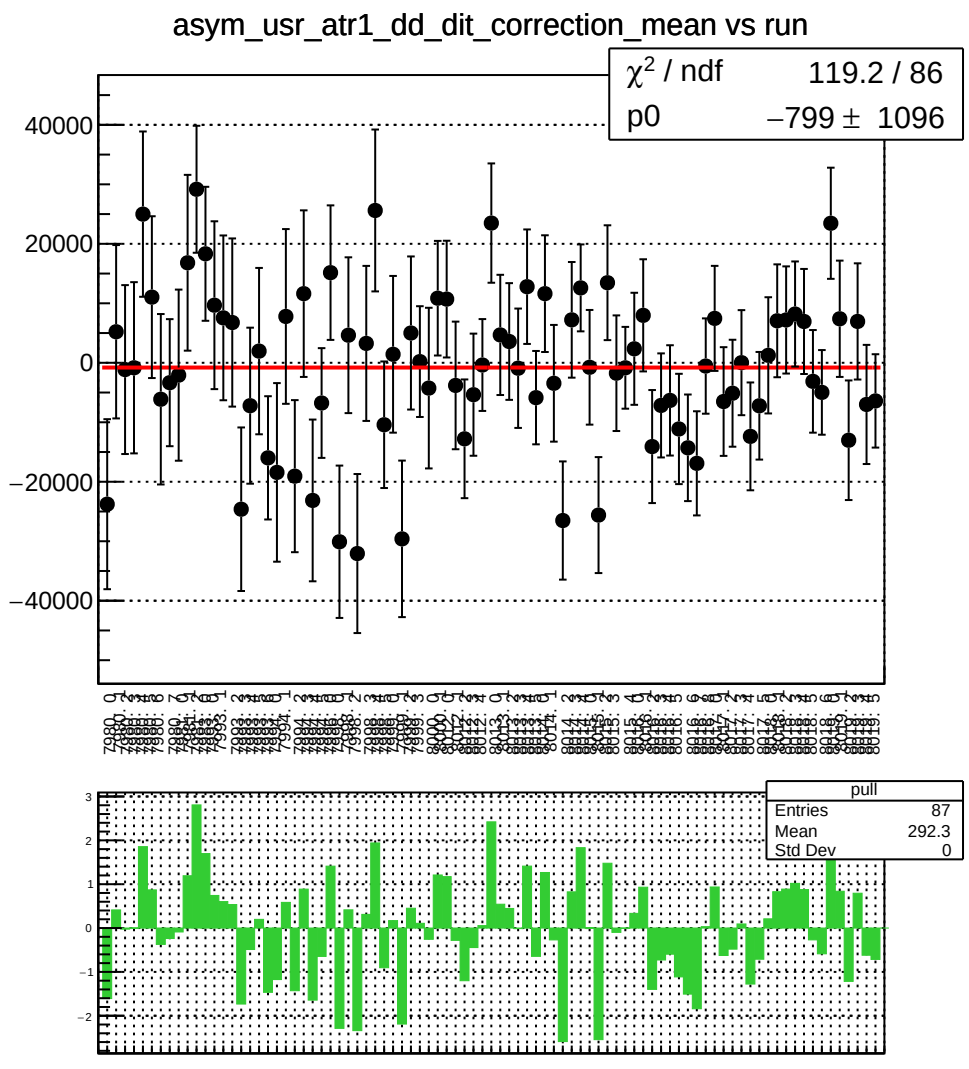

pull1D
Entries 87
Mean 0.00573
Std Dev 1.164
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

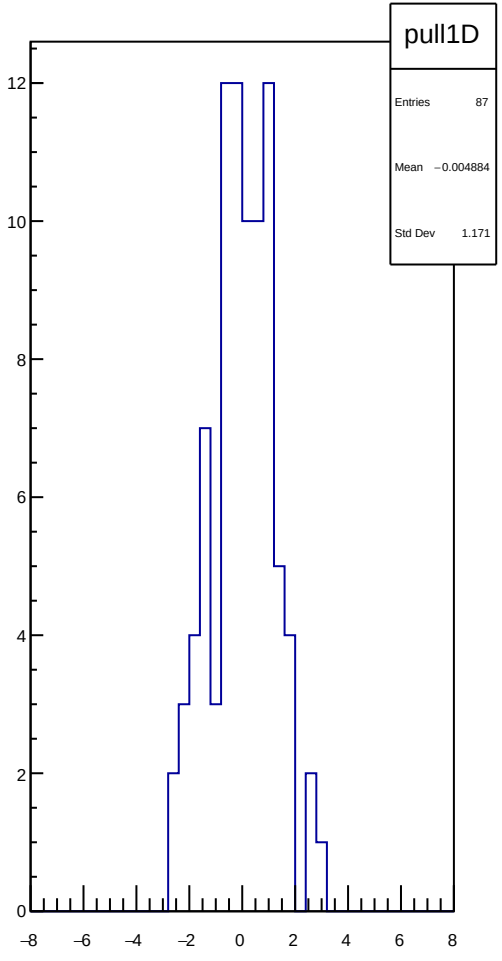

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.376e+04 / 86
p0 1012 ± 0.7768
1500
1400
1300
1200
1100
1000
900
800

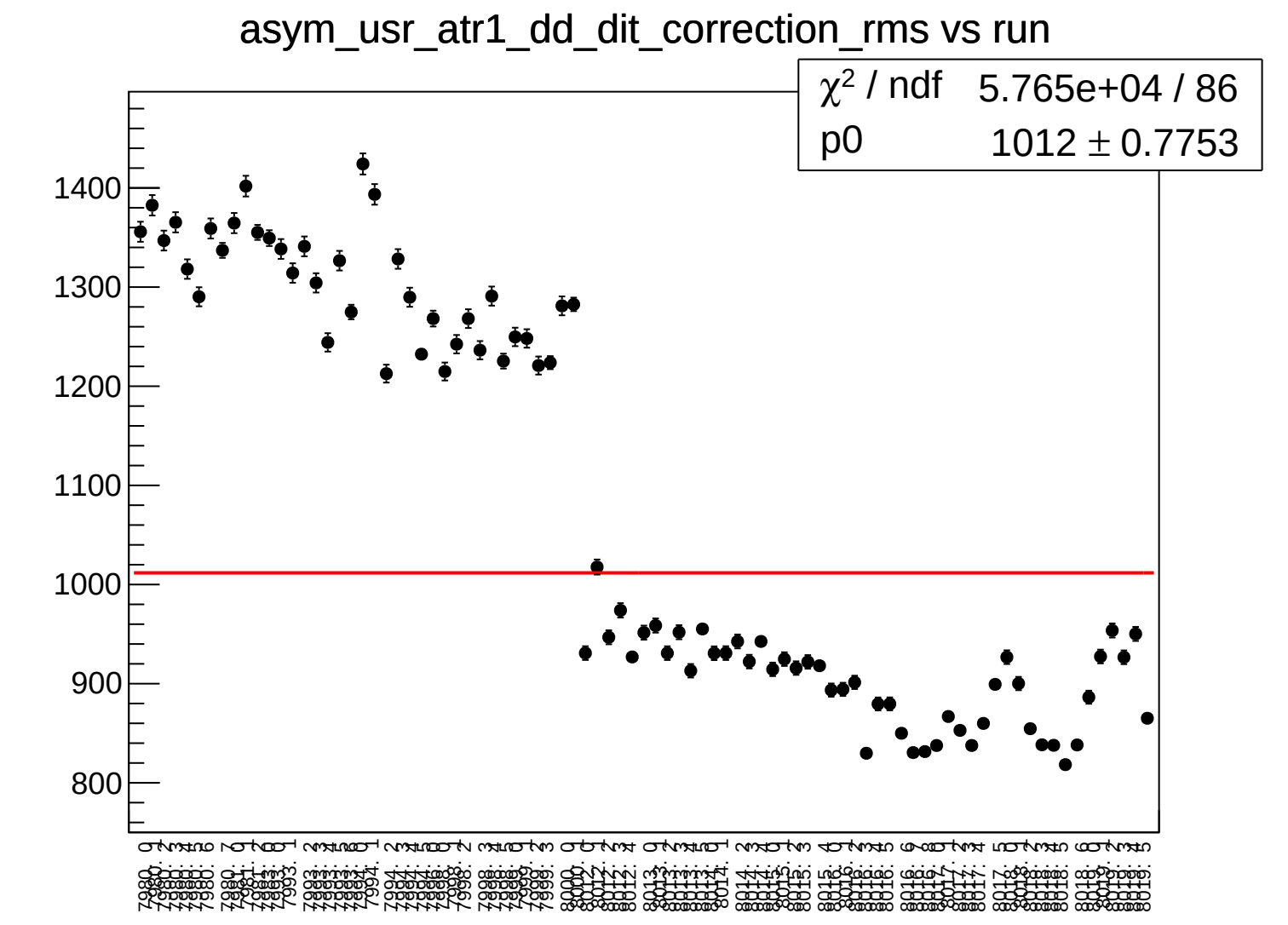

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 99.42 / 86
p0 2273 ± 1429
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 238.1
Std Dev 0
2
1
0
−1
−2

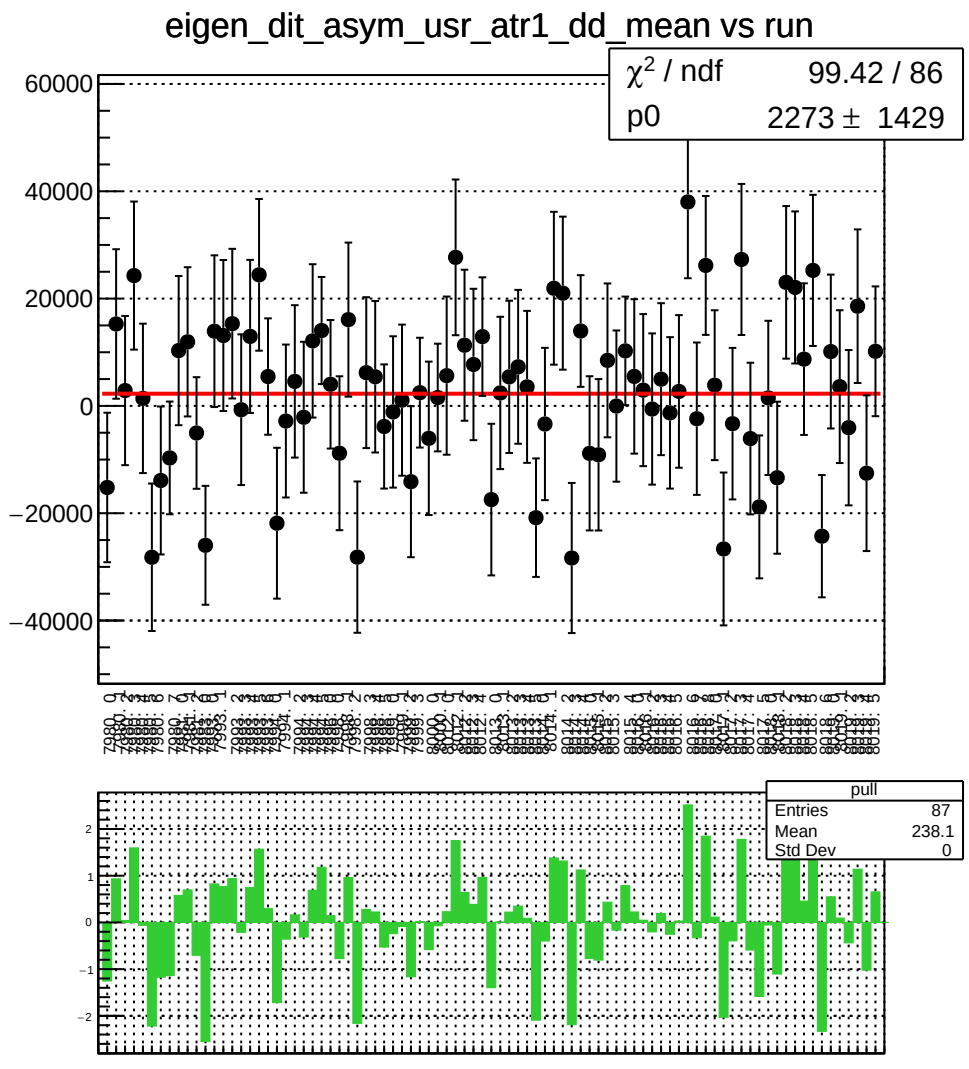

pull1D
Entries 87
Mean 0.0114
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

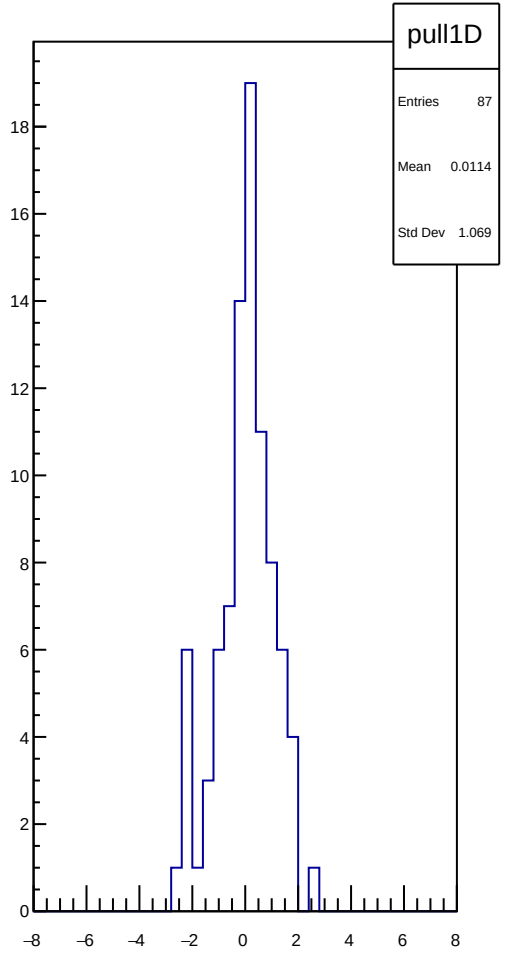

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 230 / 86
p0 1340 ± 1.01
1420
1400
1380
1360
1340
1320
1300

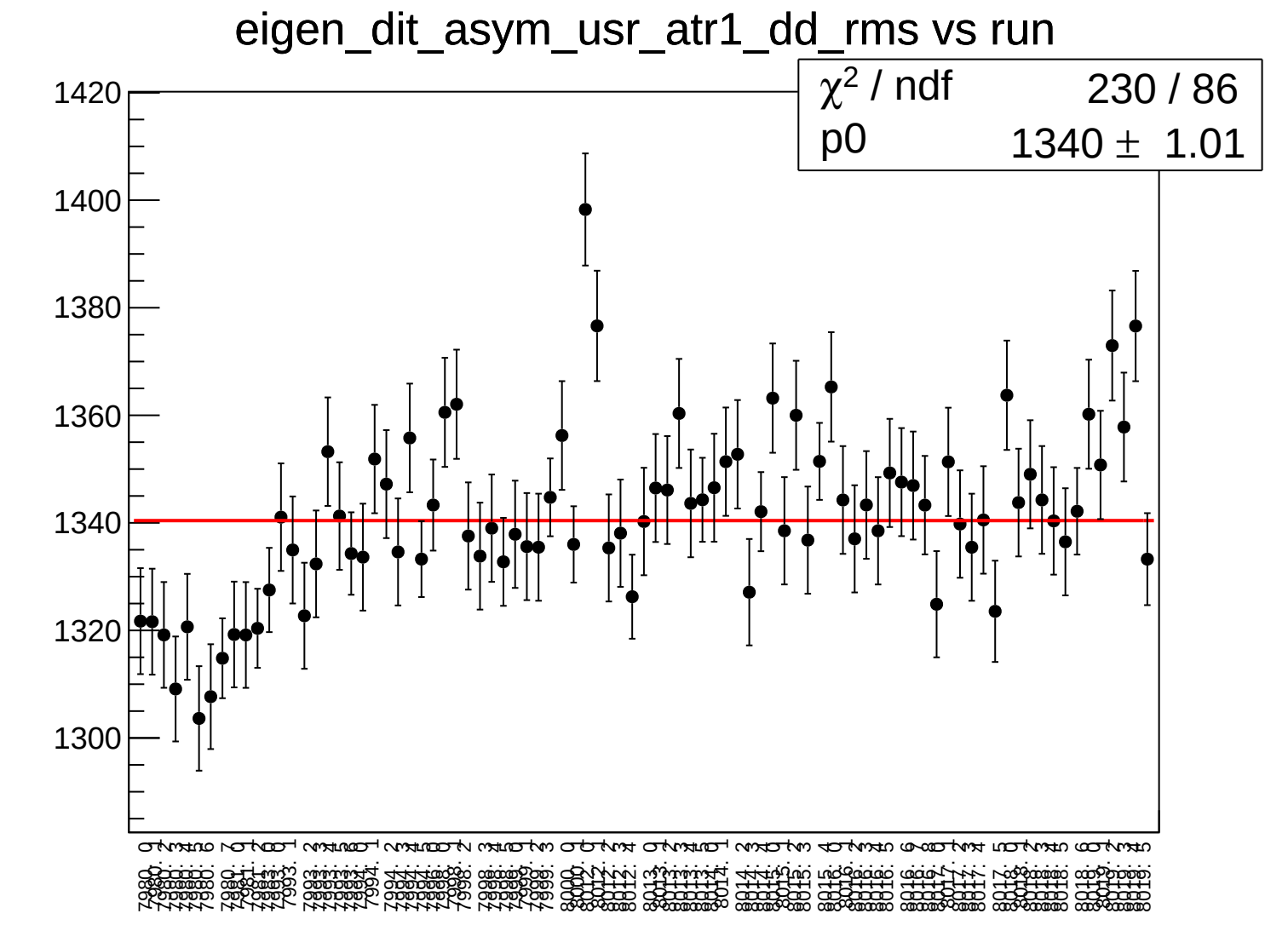

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 119.2 / 86
p0 −799 ± 1096
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 292.3
Std Dev 0
3
2
1
0
−1
−2

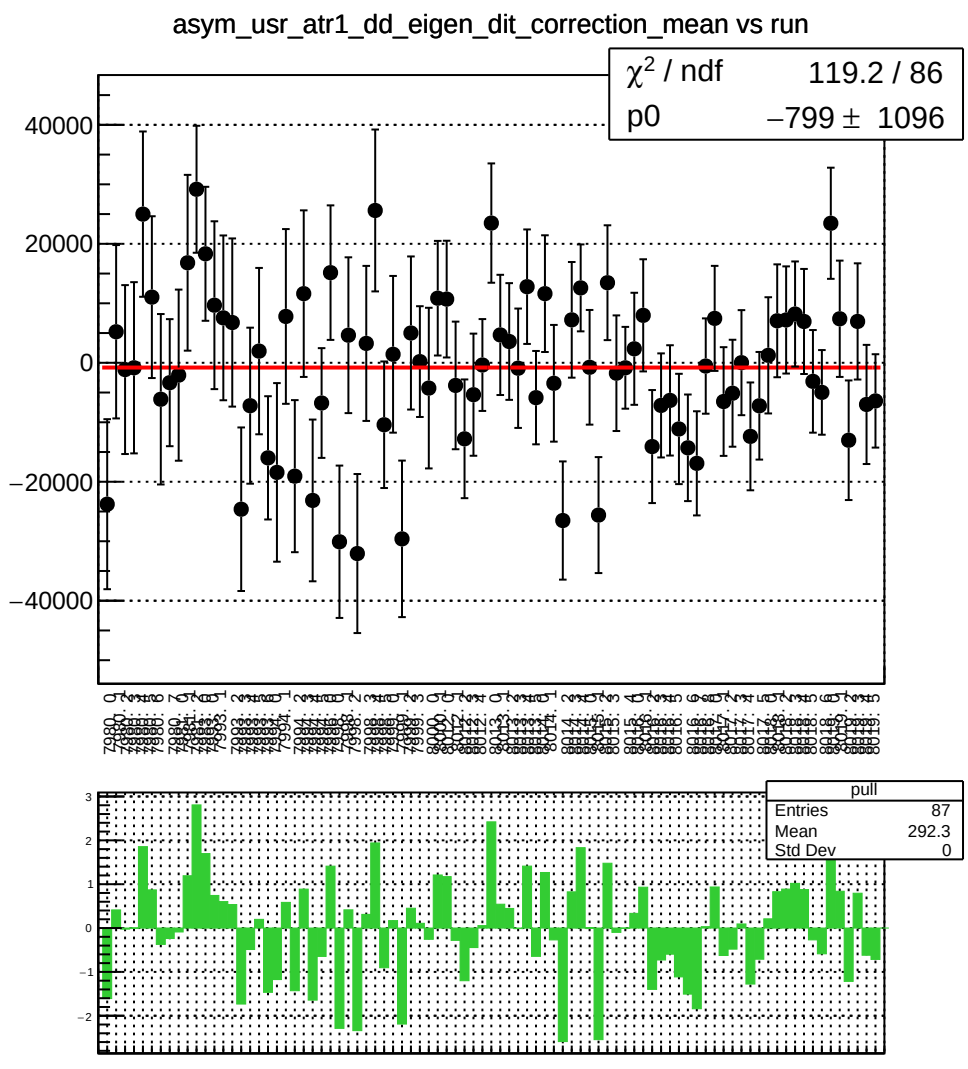

pull1D
Entries 87
Mean −0.004884
Std Dev 1.171
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

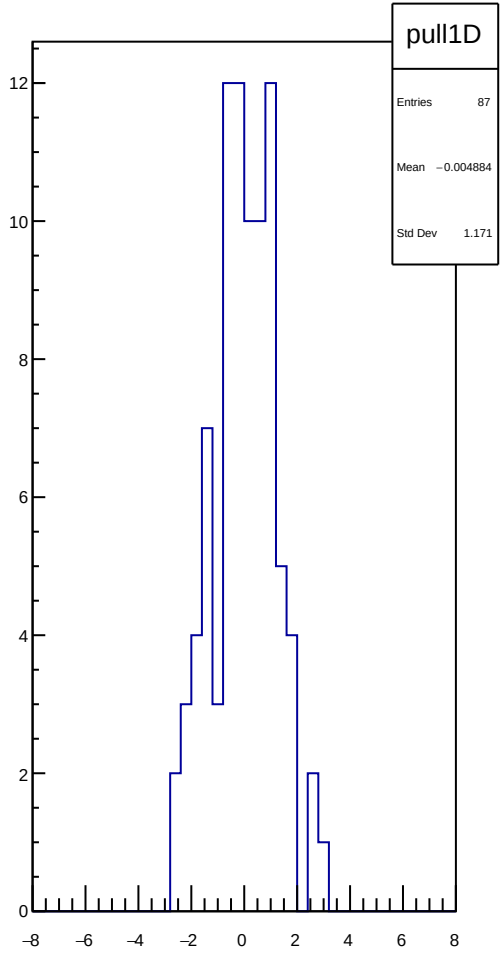

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 5.765e+04 / 86
p0 1012 ± 0.7753
1400
1300
1200
1100
1000
900
800

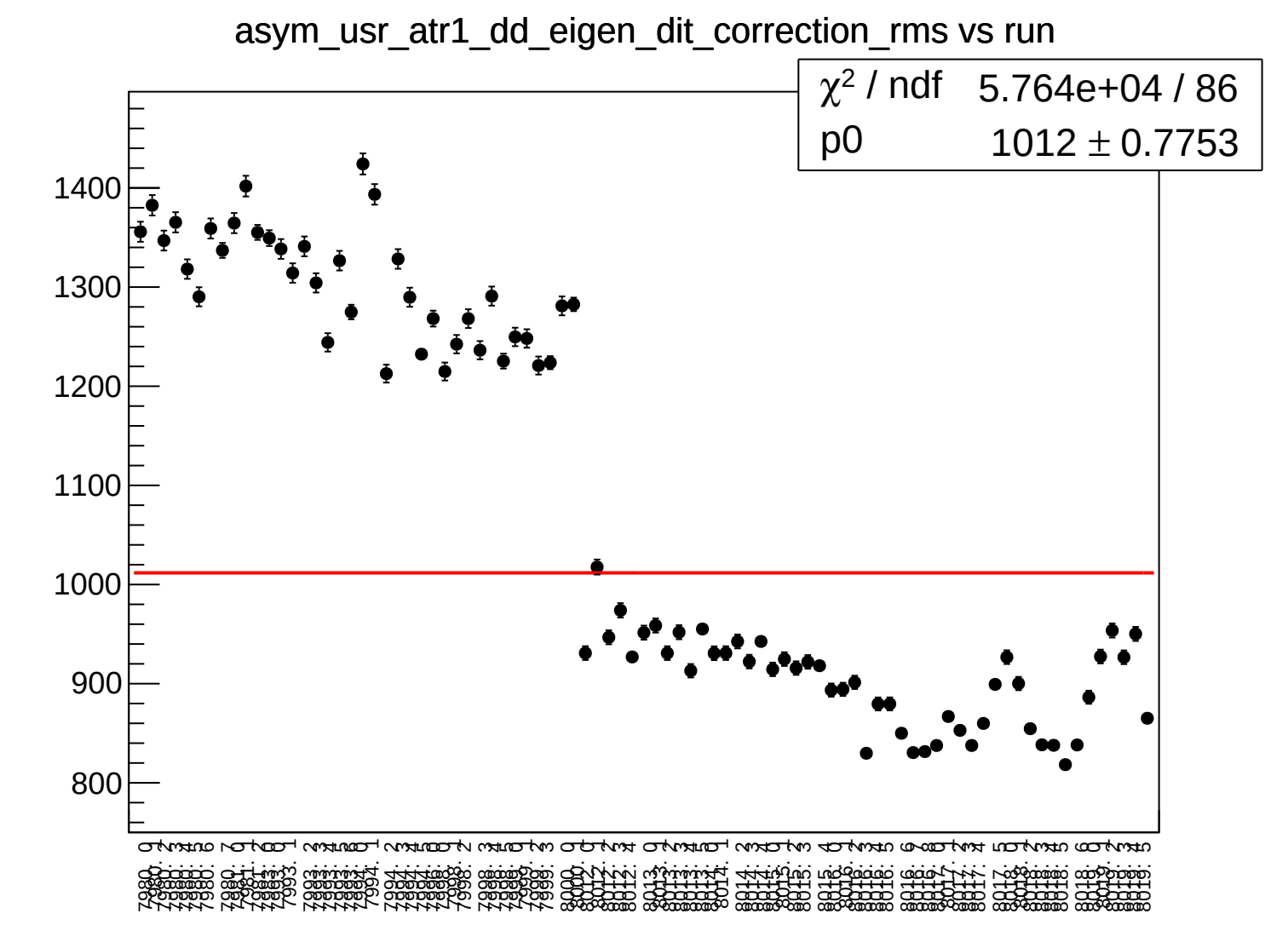

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 99.42 / 86
p0 2273 ± 1429
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 238.1
Std Dev 0
2
1
0
−1
−2

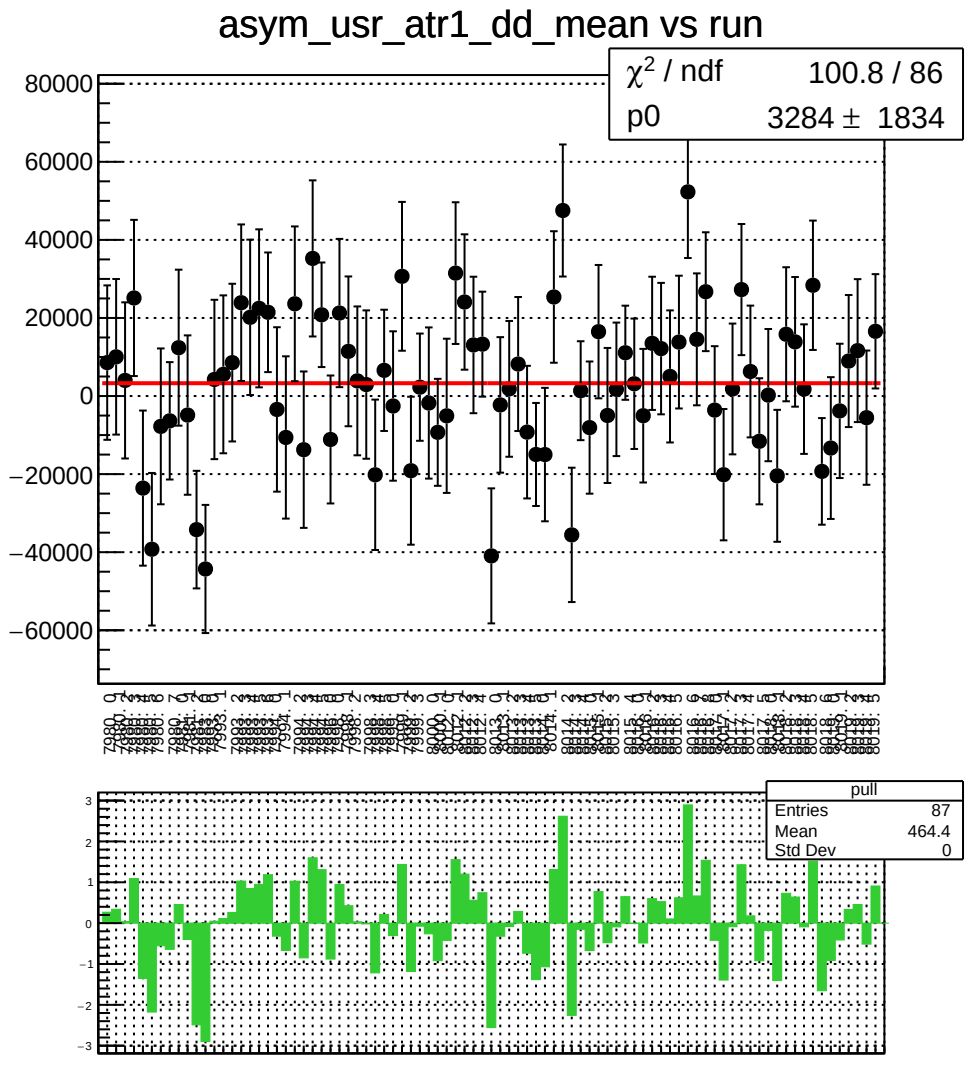

pull1D
Entries 87
Mean 0.0114
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

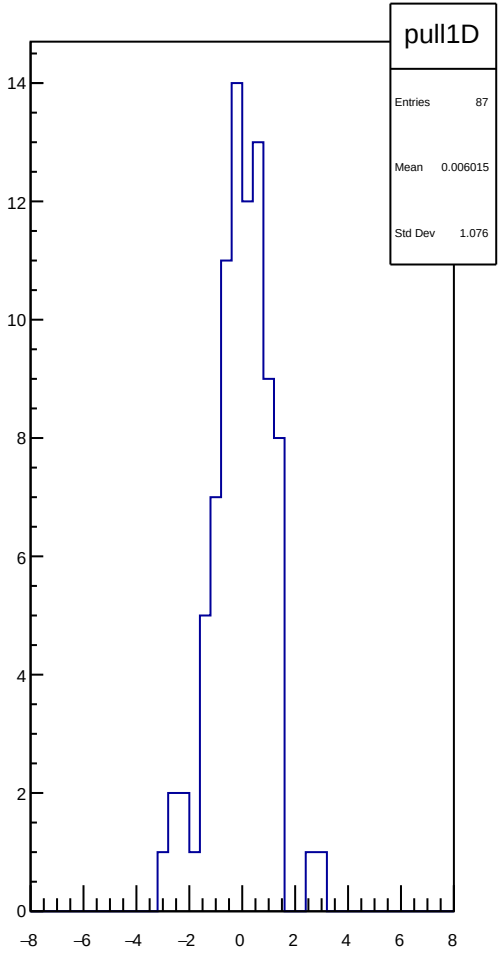

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 230 / 86
p0 1340 ± 1.01
1420
1400
1380
1360
1340
1320
1300

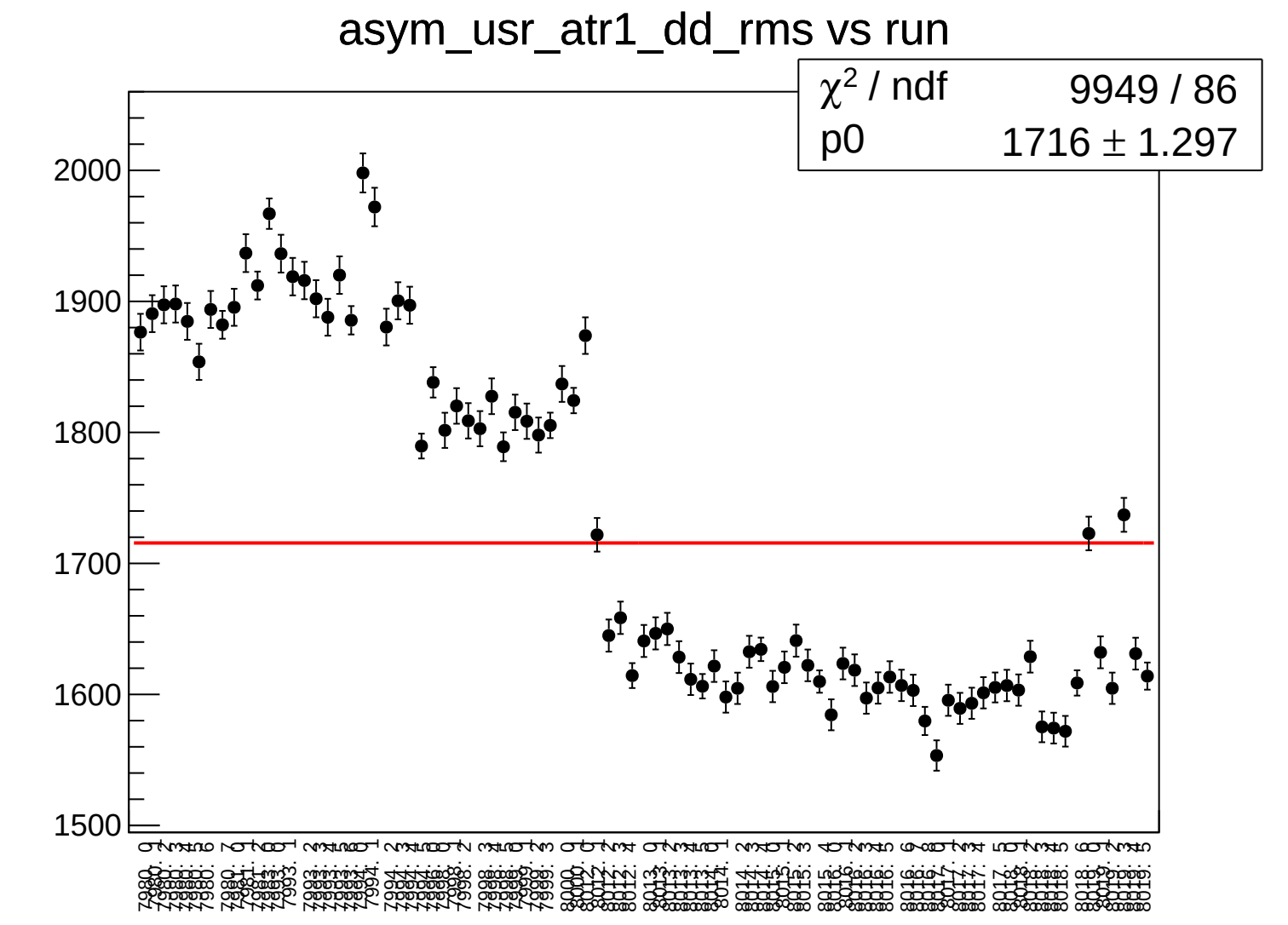

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 119.2 / 86
p0 −799 ± 1096
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 292.3
Std Dev 0
3
2
1
0
−1
−2

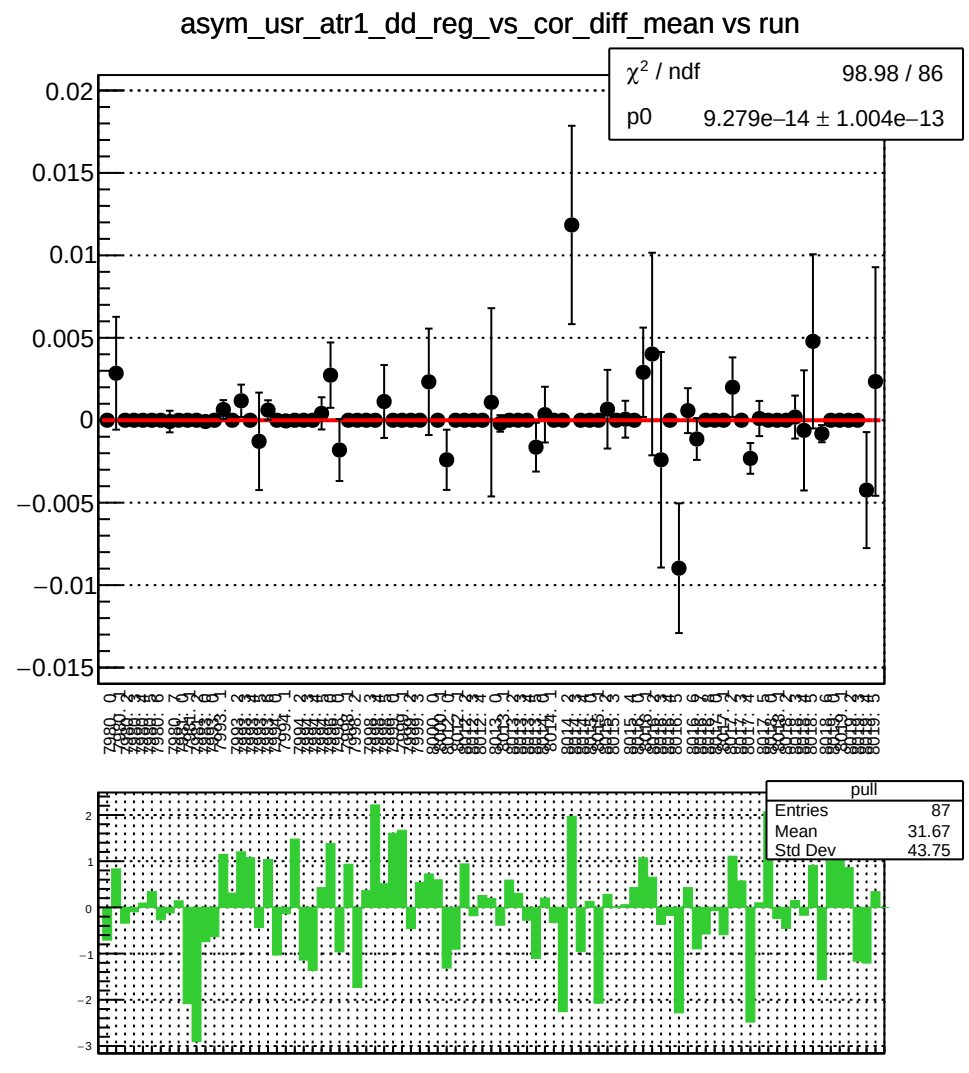

pull1D
Entries 87
Mean −0.004884
Std Dev 1.171
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

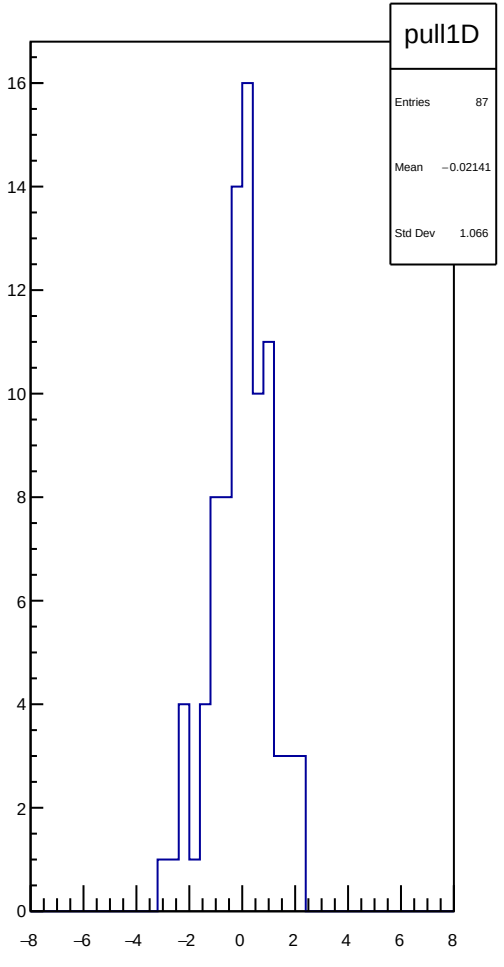

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.764e+04 / 86
p0 1012 ± 0.7753
1400
1300
1200
1100
1000
900
800

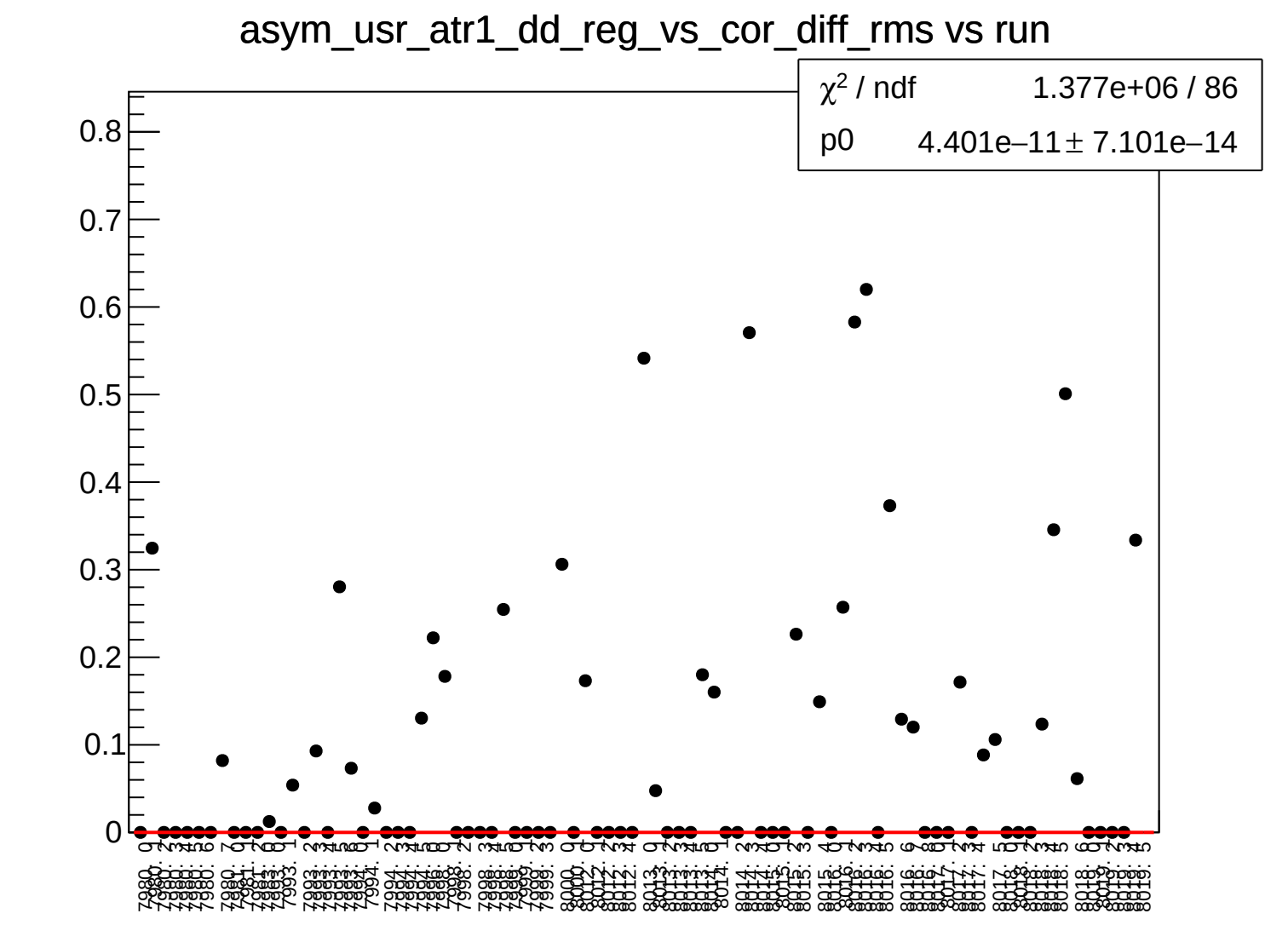

asym_usr_atr1_dd_mean vs run
χ² / ndf 100.8 / 86
p0 3284 ± 1834
pull
Entries 87
Mean 464.4
Std Dev 0

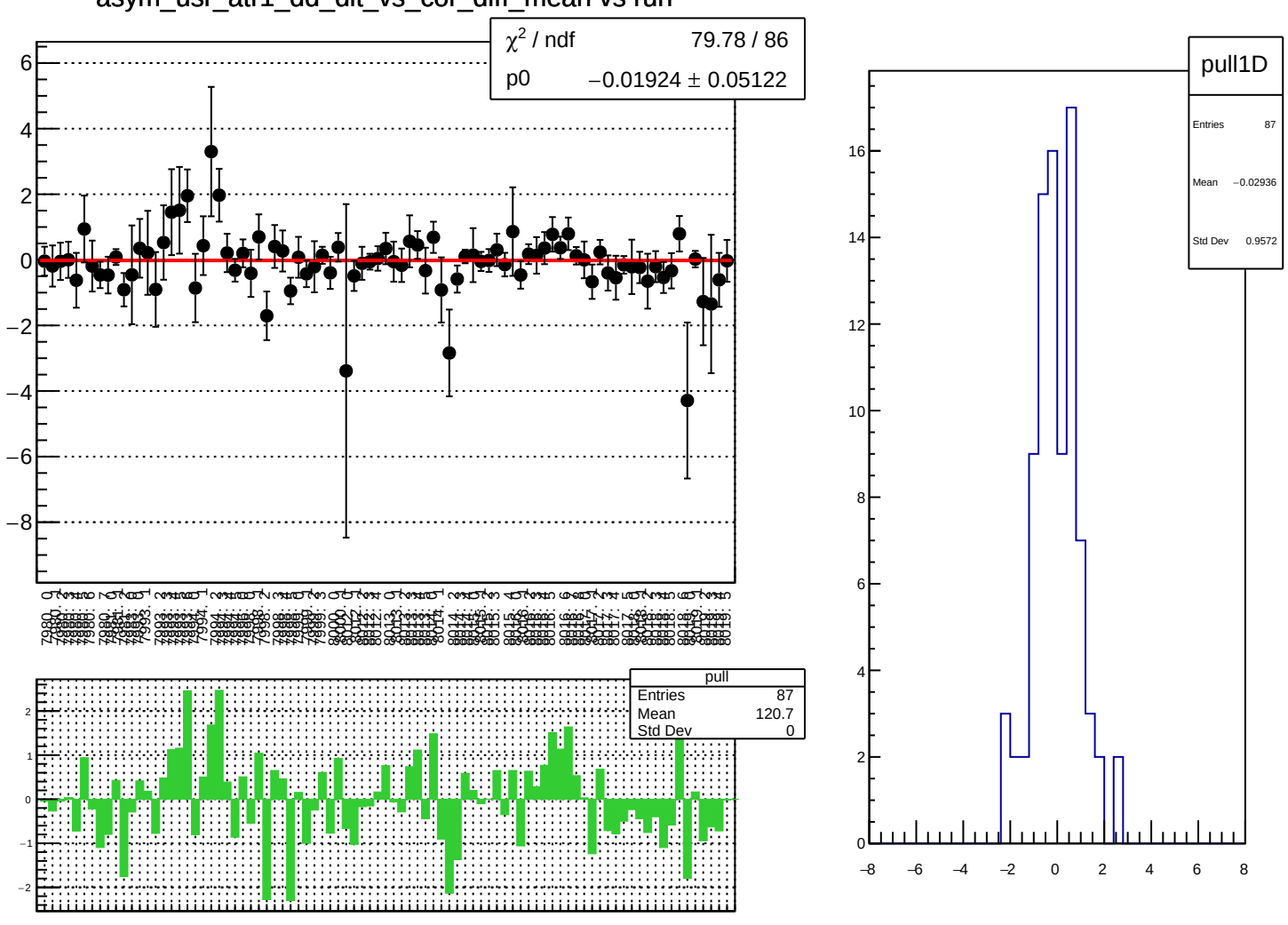

pull1D
Entries 87
Mean 0.006015
Std Dev 1.076

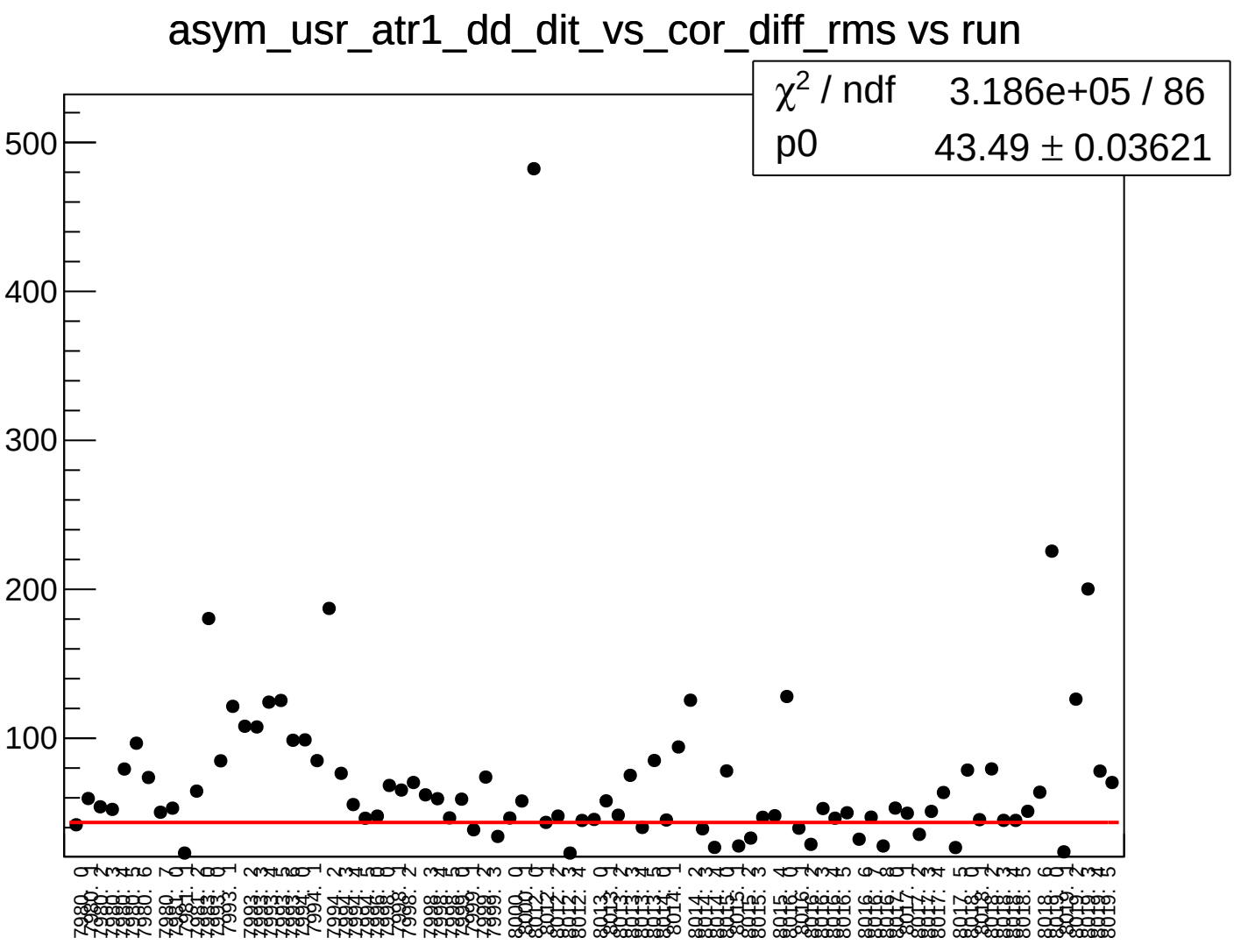

asym_usr_atr1_dd_rms vs run
χ² / ndf 9949 / 86
p0 1716 ± 1.297
2000
1900
1800
1700
1600
1500

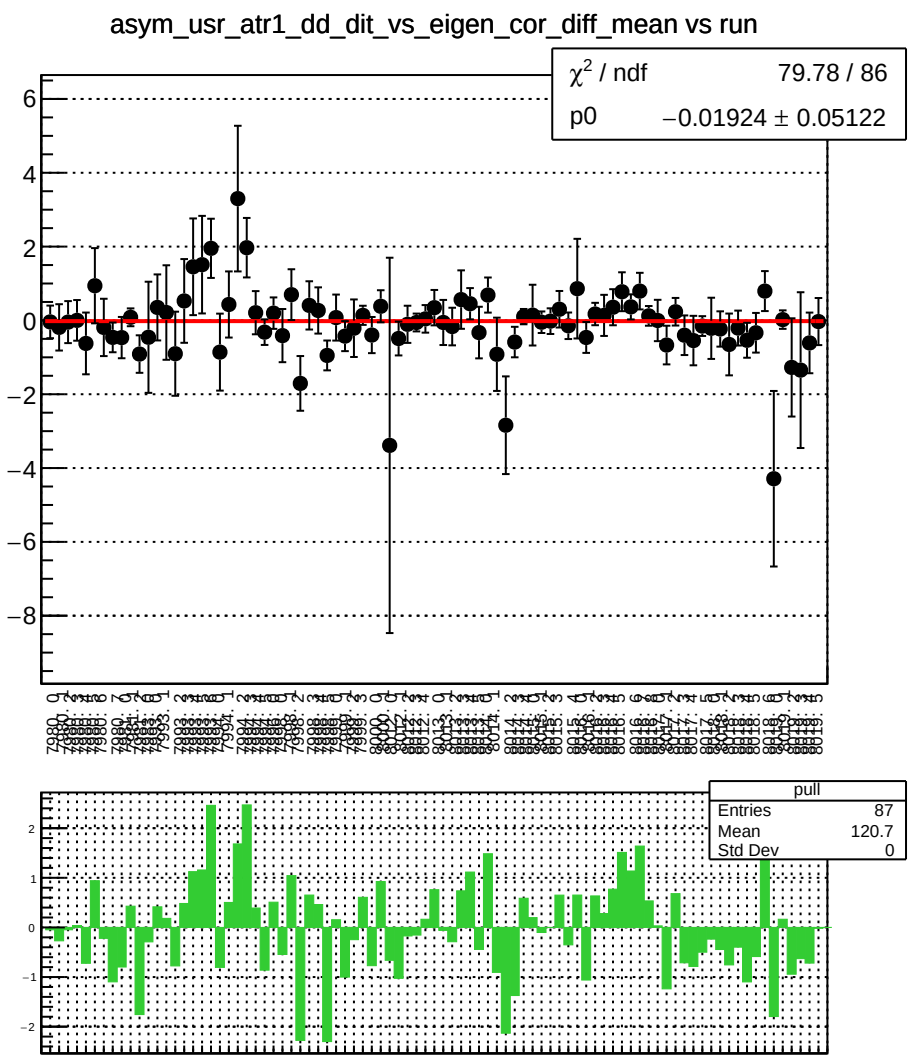

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.98 / 86
p0 9.279e−14 ± 1.004e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 87
Mean 31.67
Std Dev 43.75
2
1
0
−1
−2
−3

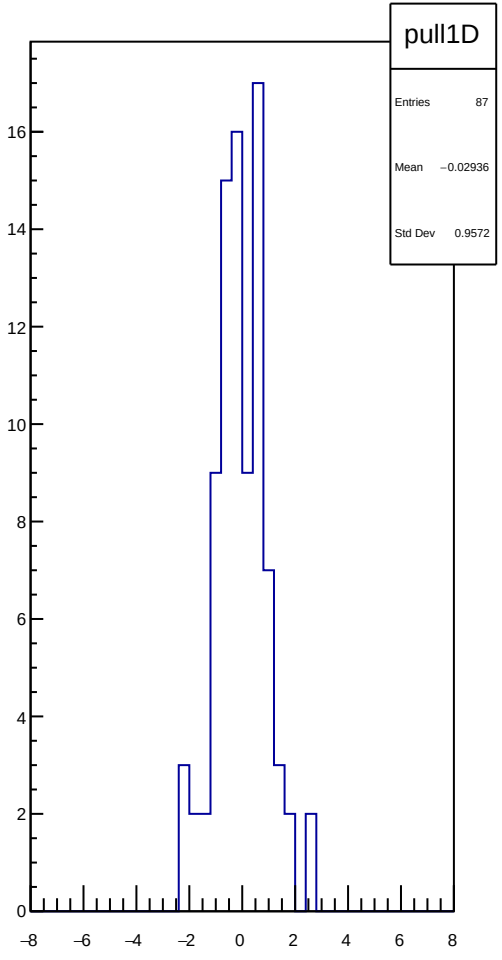

pull1D
Entries 87
Mean −0.02141
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

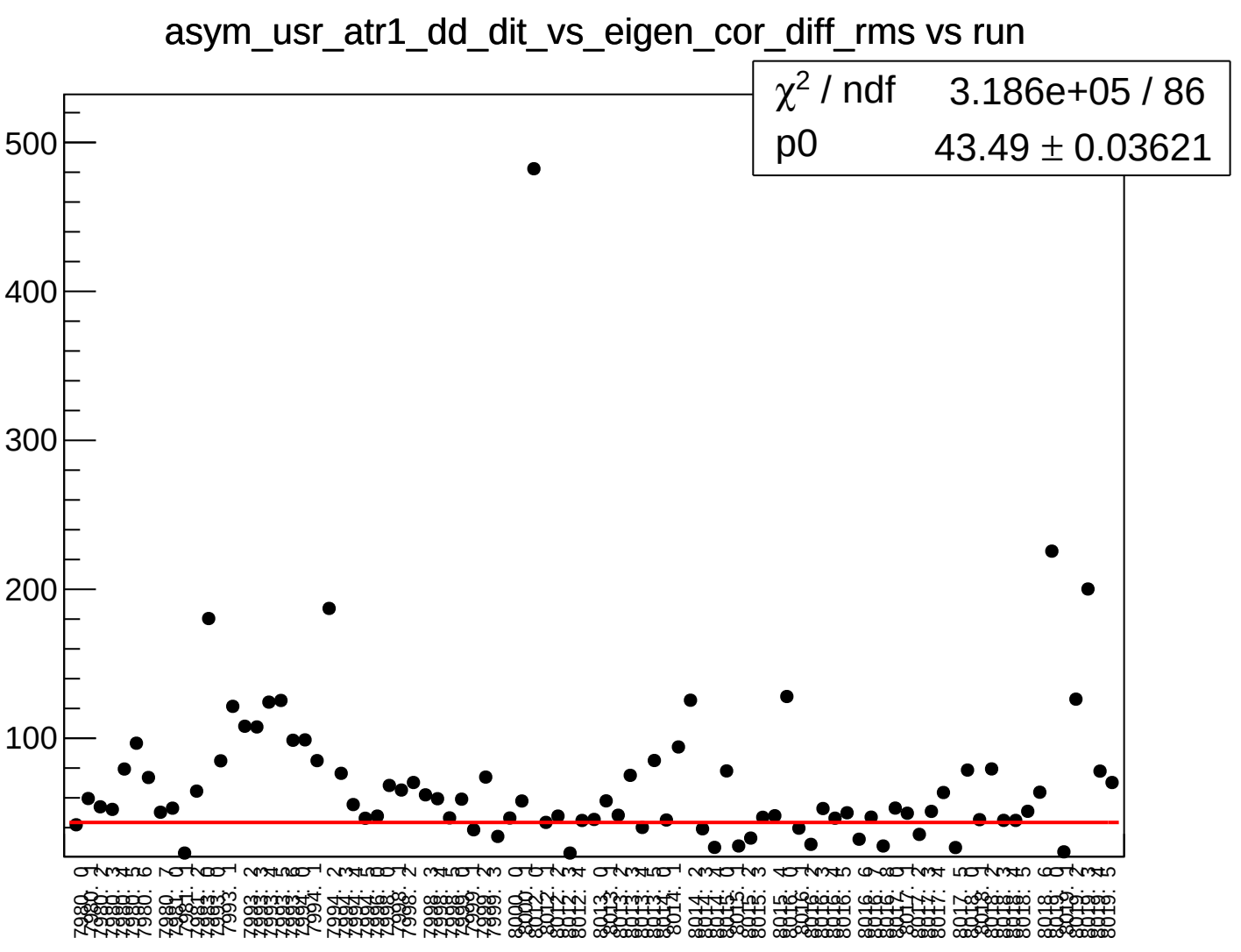

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.377e+06 / 86
p0 4.401e−11 ± 7.101e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

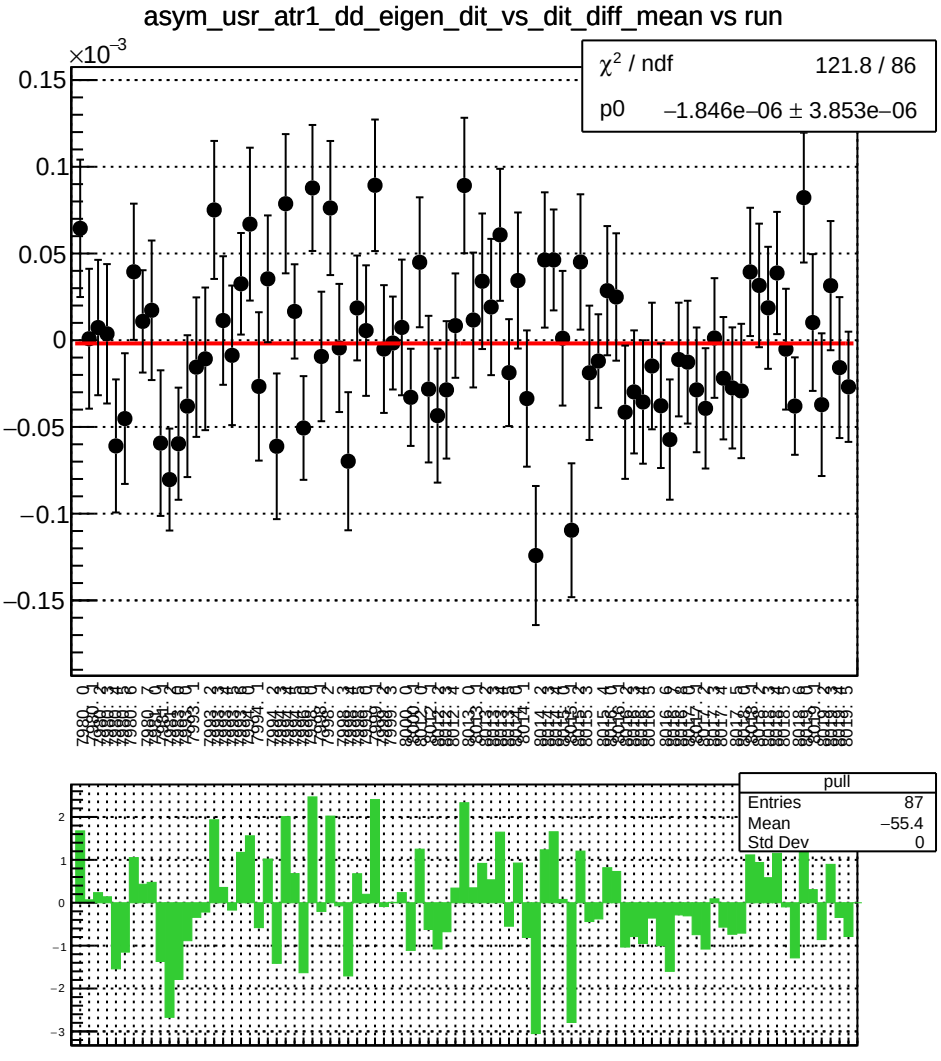

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.78 / 86
p0 −0.01924 ± 0.05122
pull
Entries 87
Mean 120.7
Std Dev 0
pull1D
Entries 87
Mean −0.02936
Std Dev 0.9572

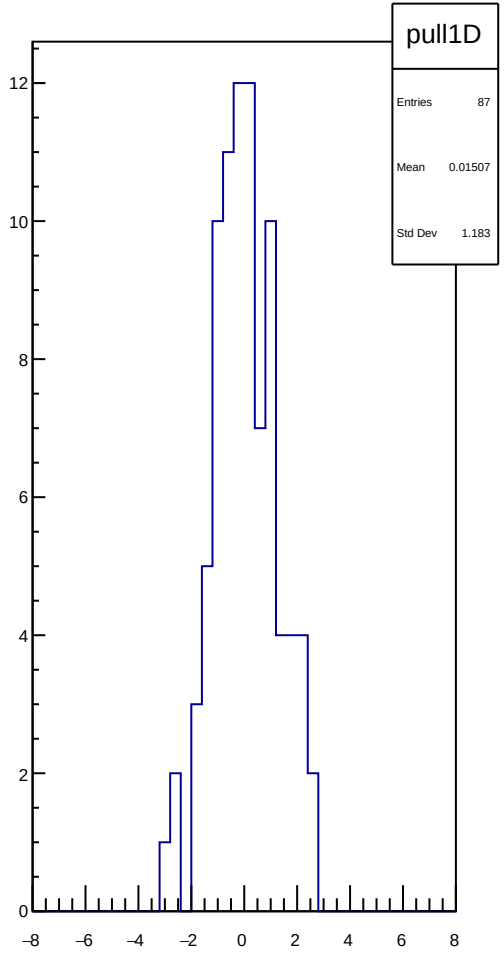

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.186e+05 / 86
p0 43.49 ± 0.03621
500
400
300
200
100

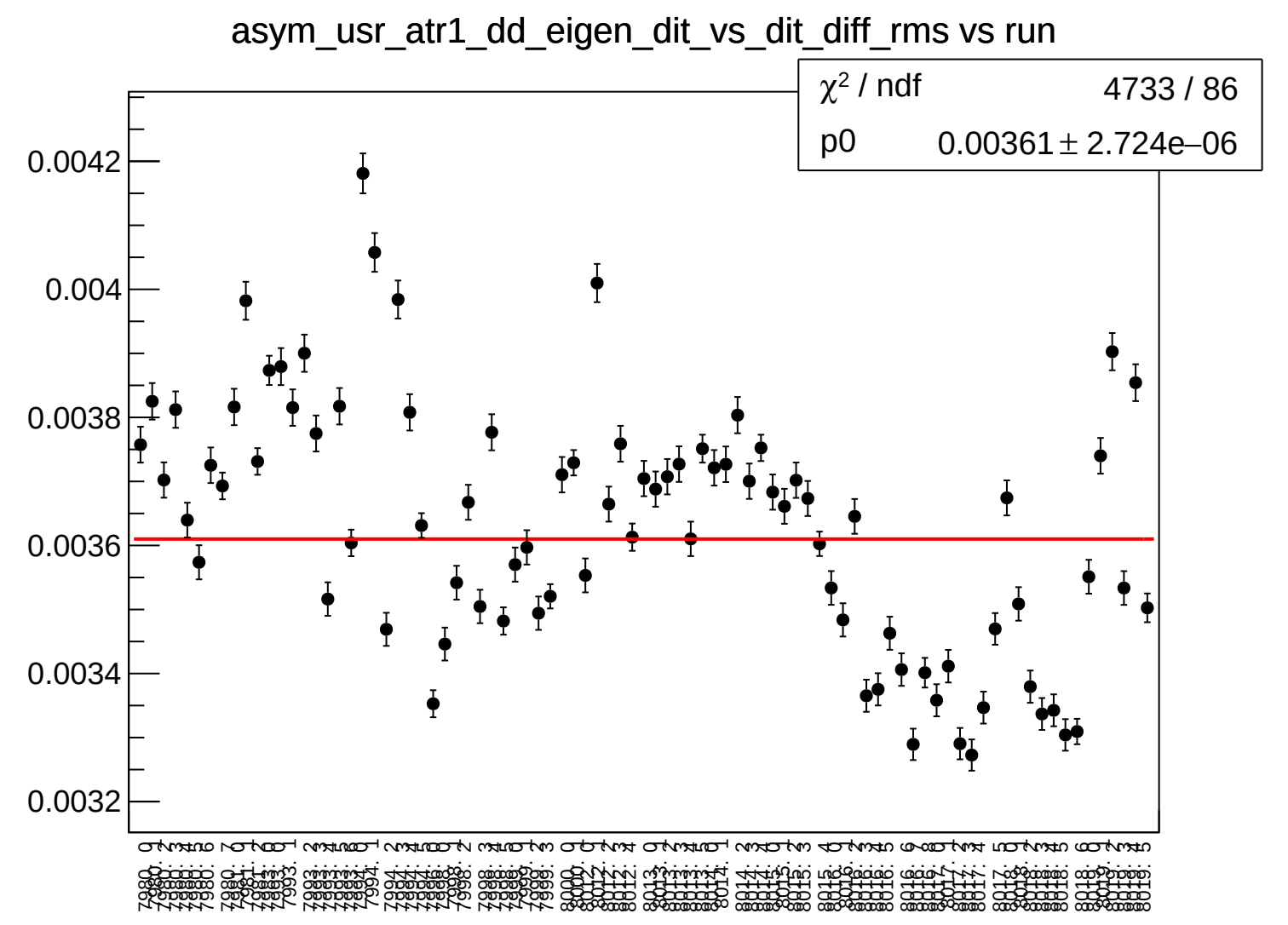

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.78 / 86
p0 −0.01924 ± 0.05122
pull
Entries 87
Mean 120.7
Std Dev 0

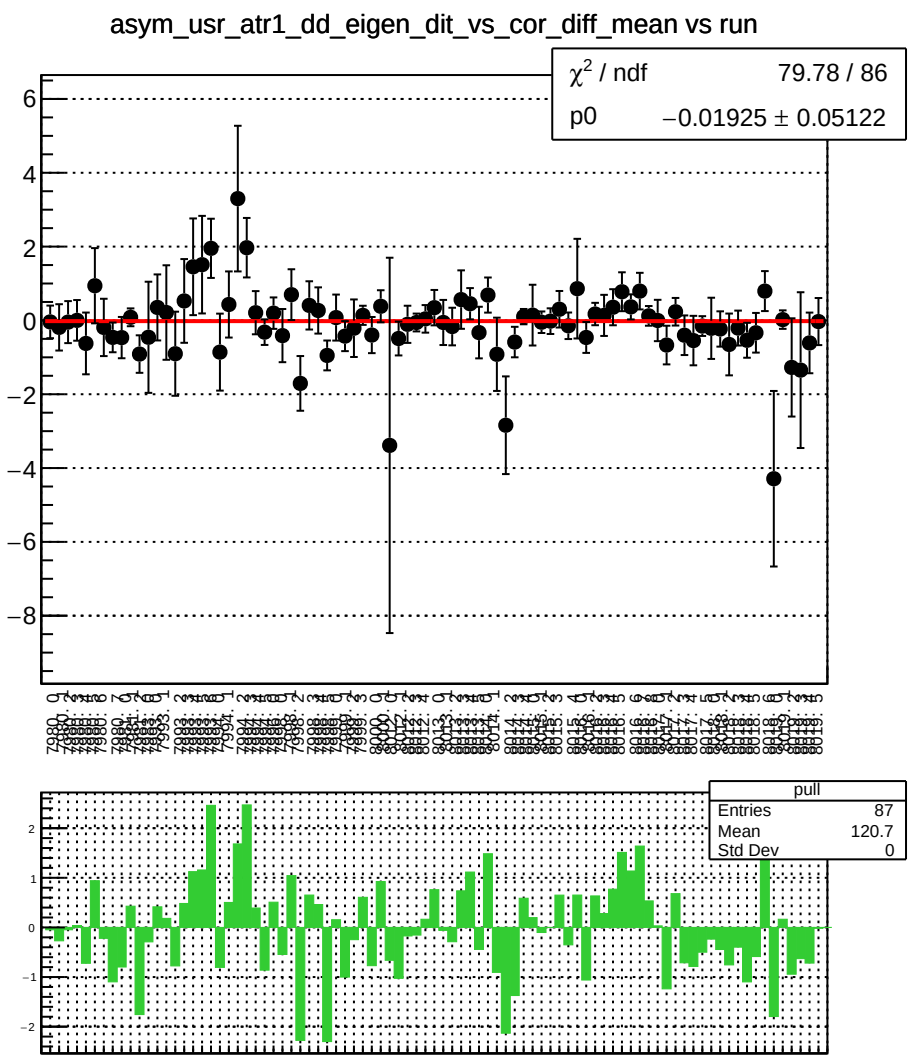

pull1D
Entries 87
Mean −0.02936
Std Dev 0.9572

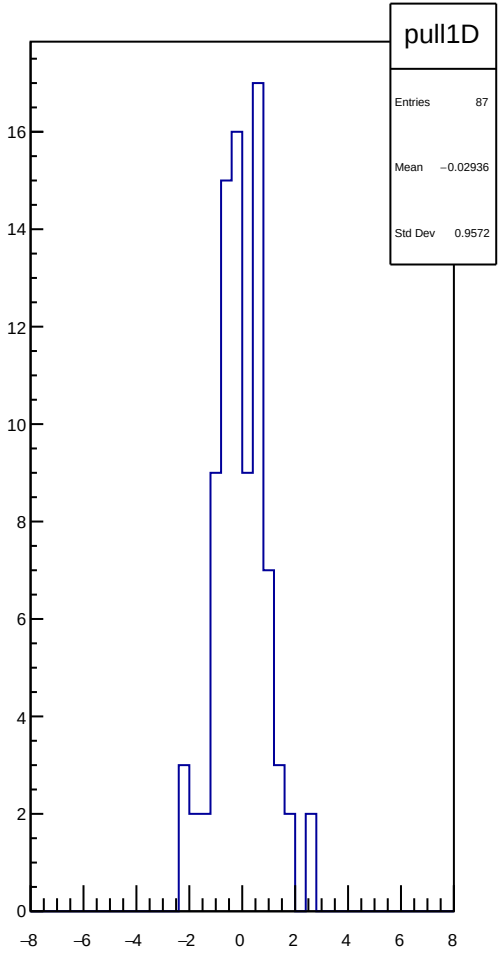

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.186e+05 / 86
p0 43.49 ± 0.03621
500
400
300
200
100

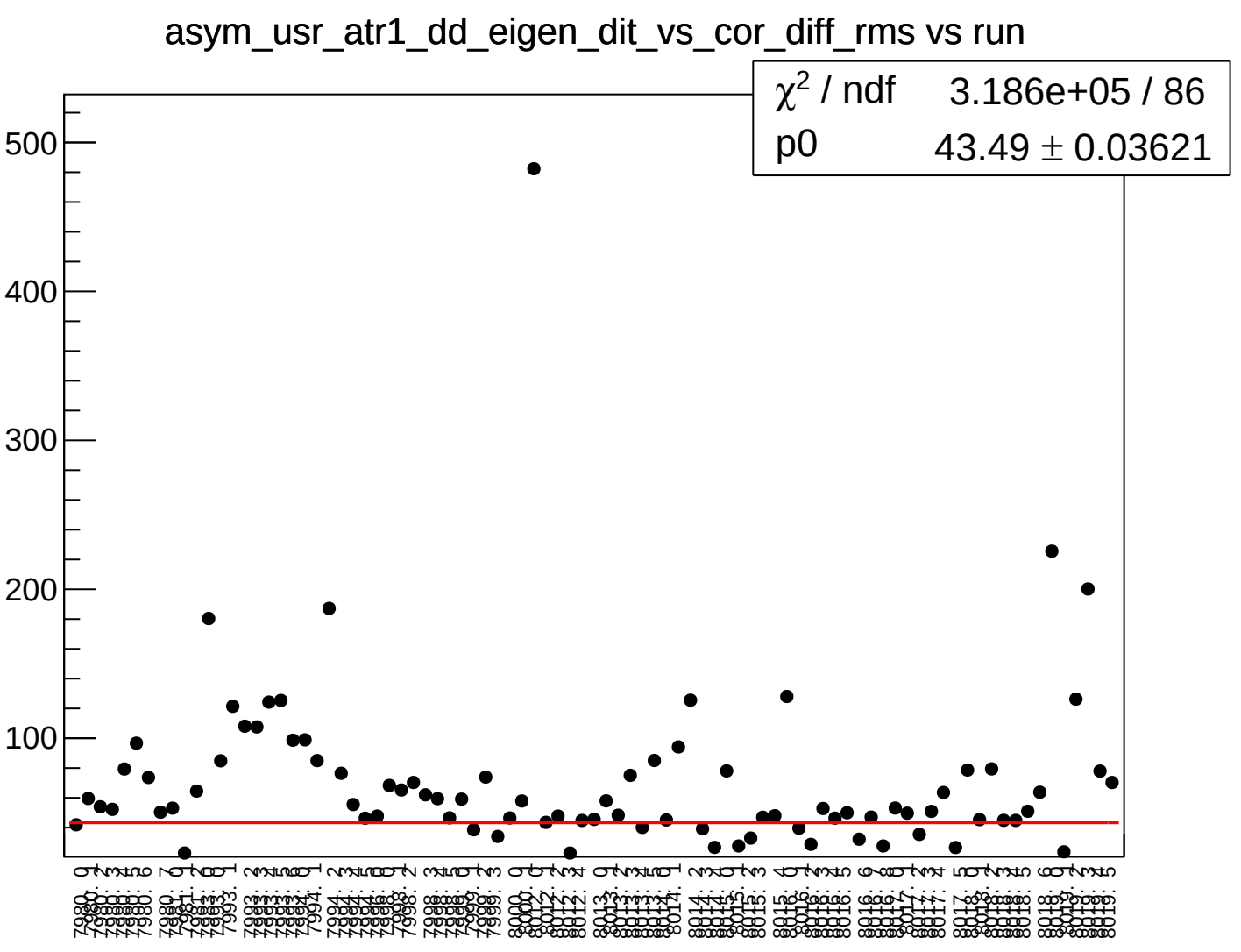

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 121.8 / 86
p0 −1.846e−06 ± 3.853e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean −55.4
Std Dev 0
2
1
0
−1
−2
−3

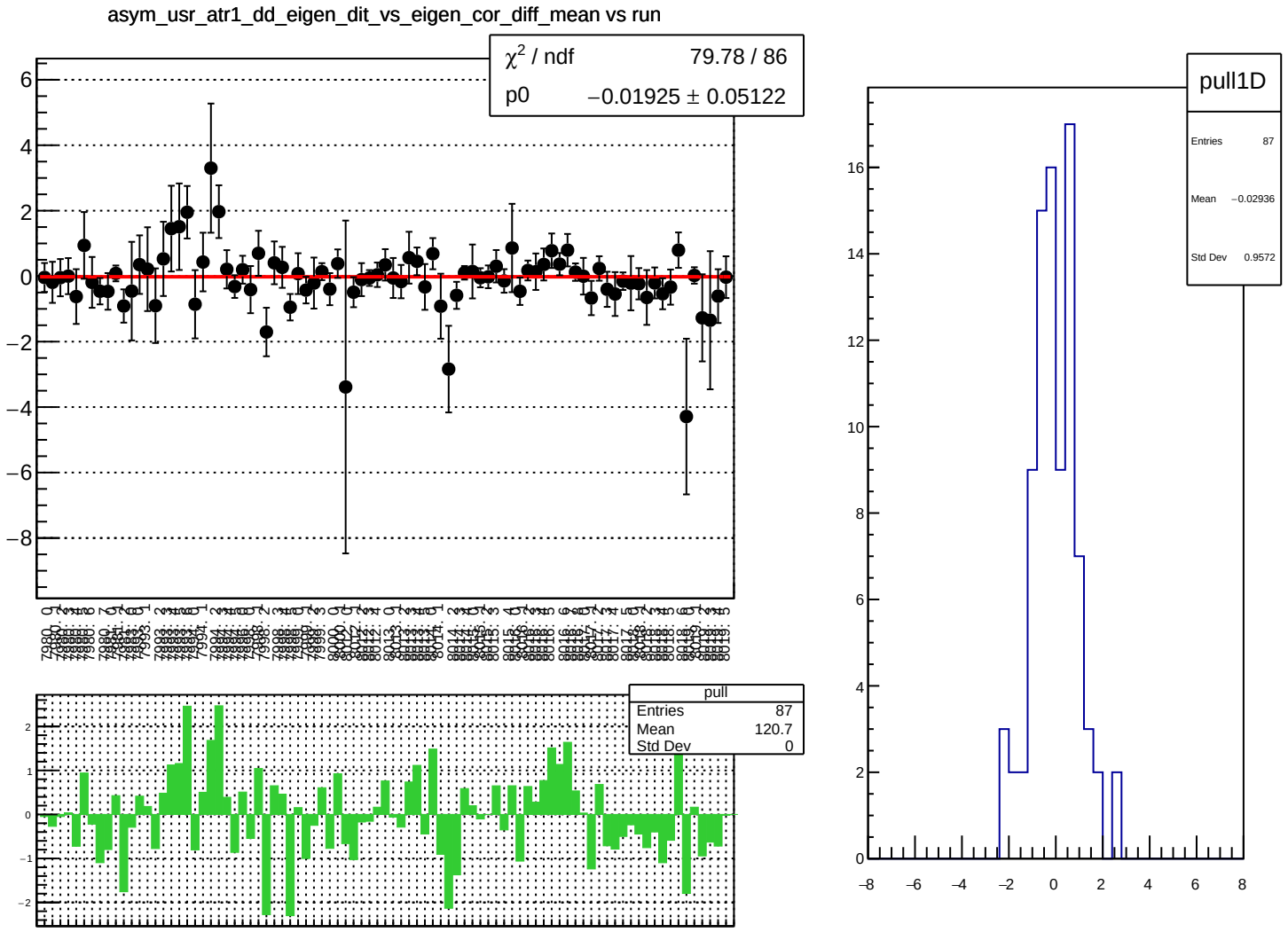

pull1D
Entries 87
Mean 0.01507
Std Dev 1.183
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

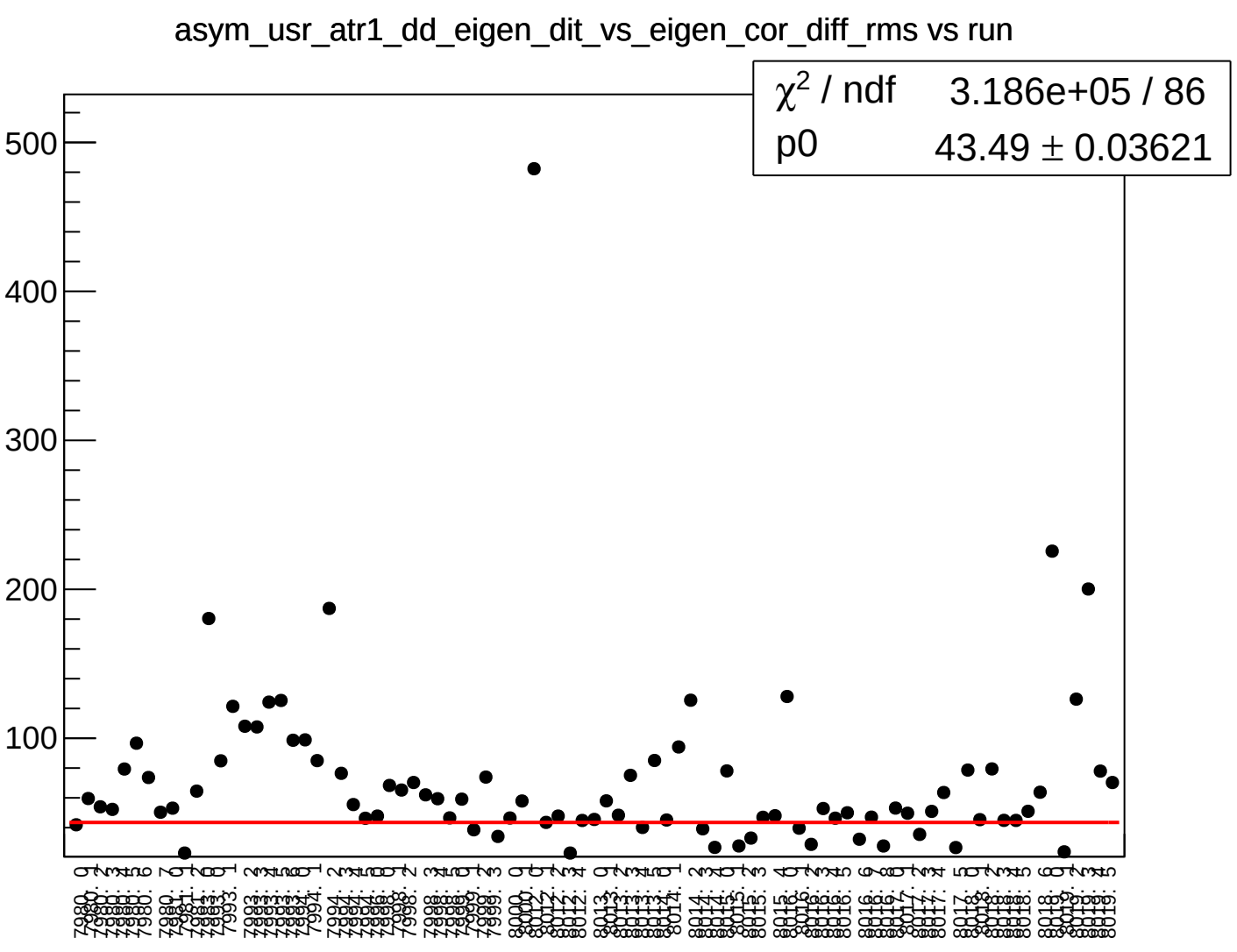

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4733 / 86
p0 0.00361 ± 2.724e–06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

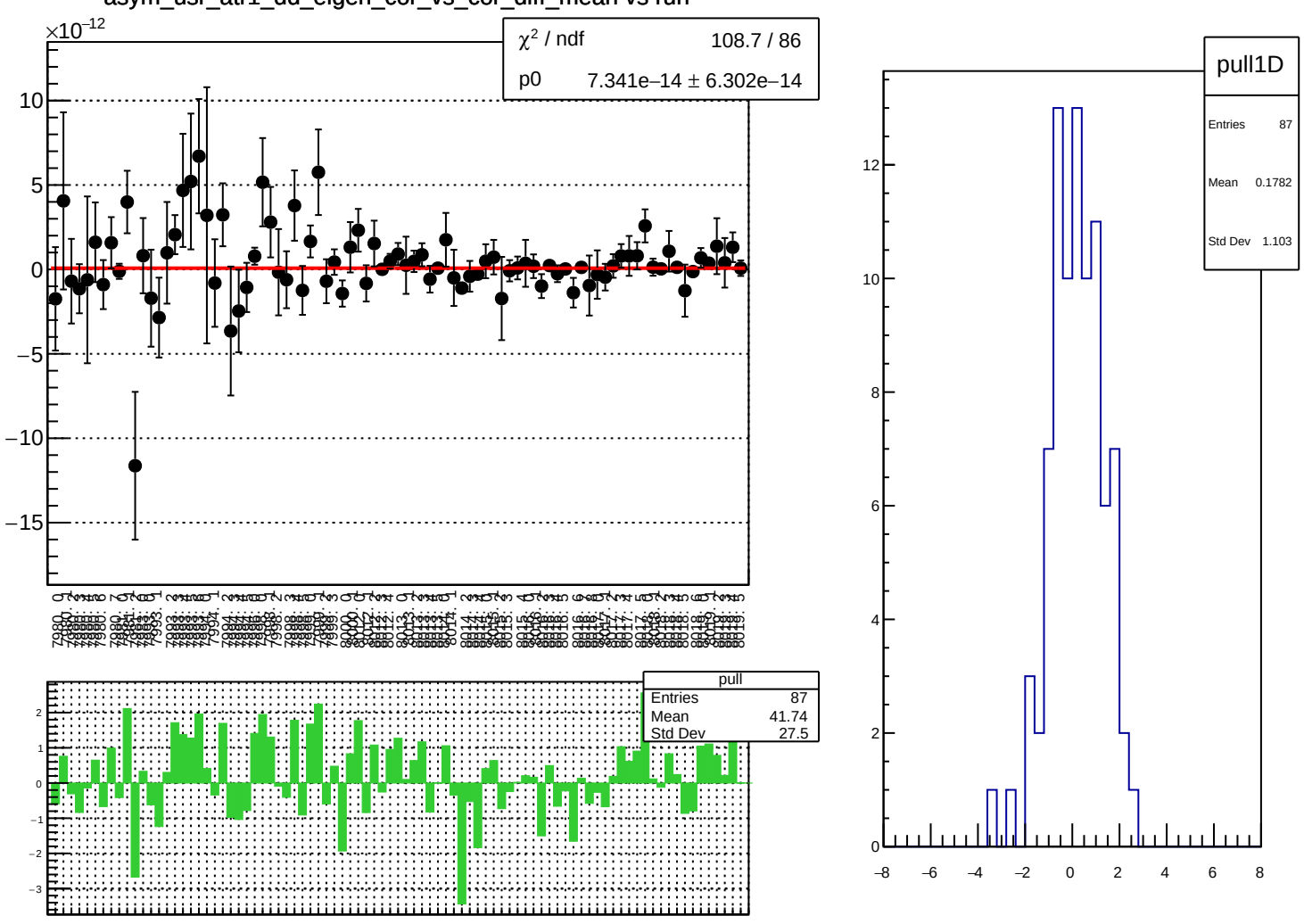

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.78 / 86
p0 −0.01925 ± 0.05122
pull
Entries 87
Mean 120.7
Std Dev 0

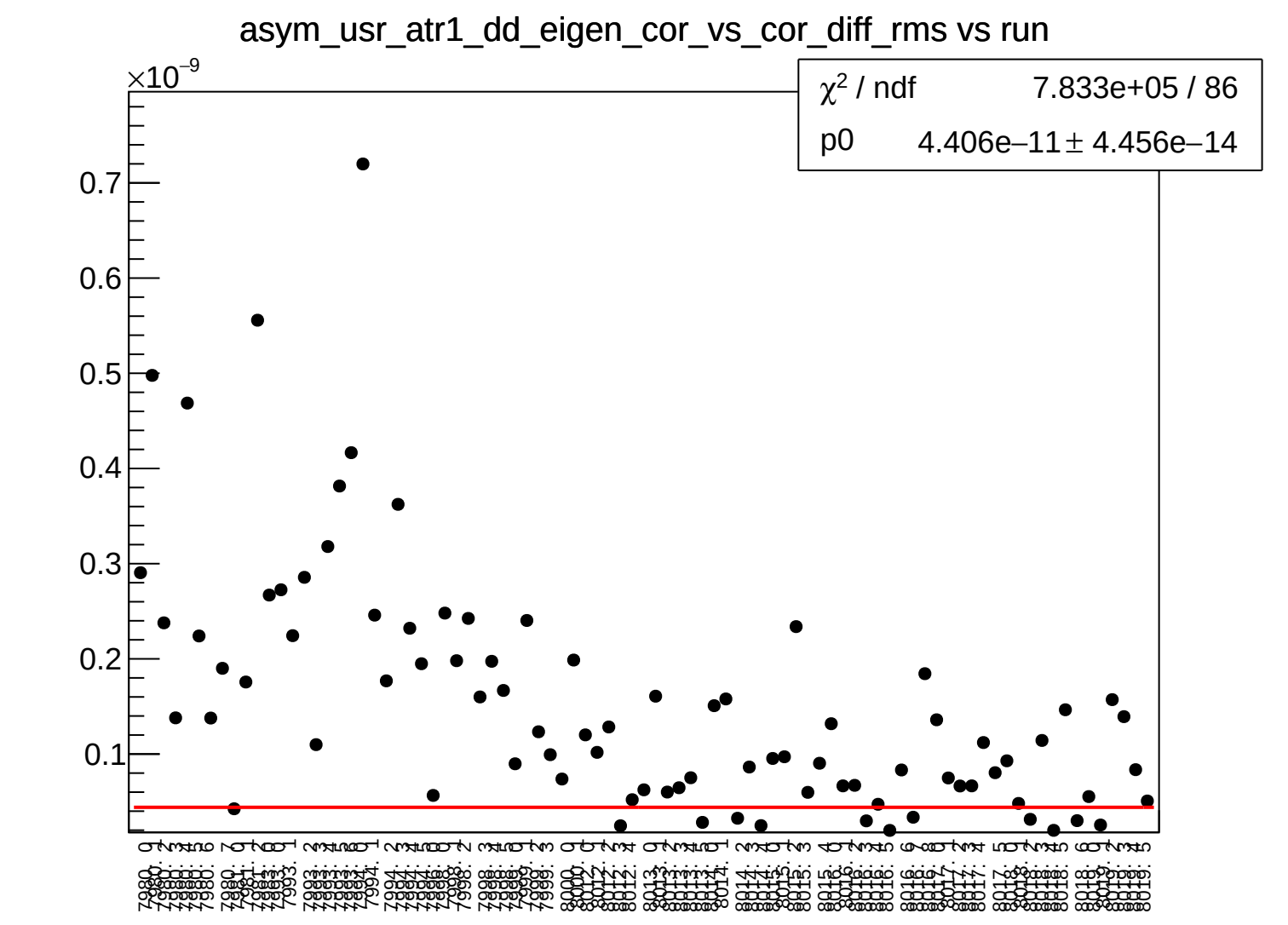

pull1D
Entries 87
Mean −0.02936
Std Dev 0.9572

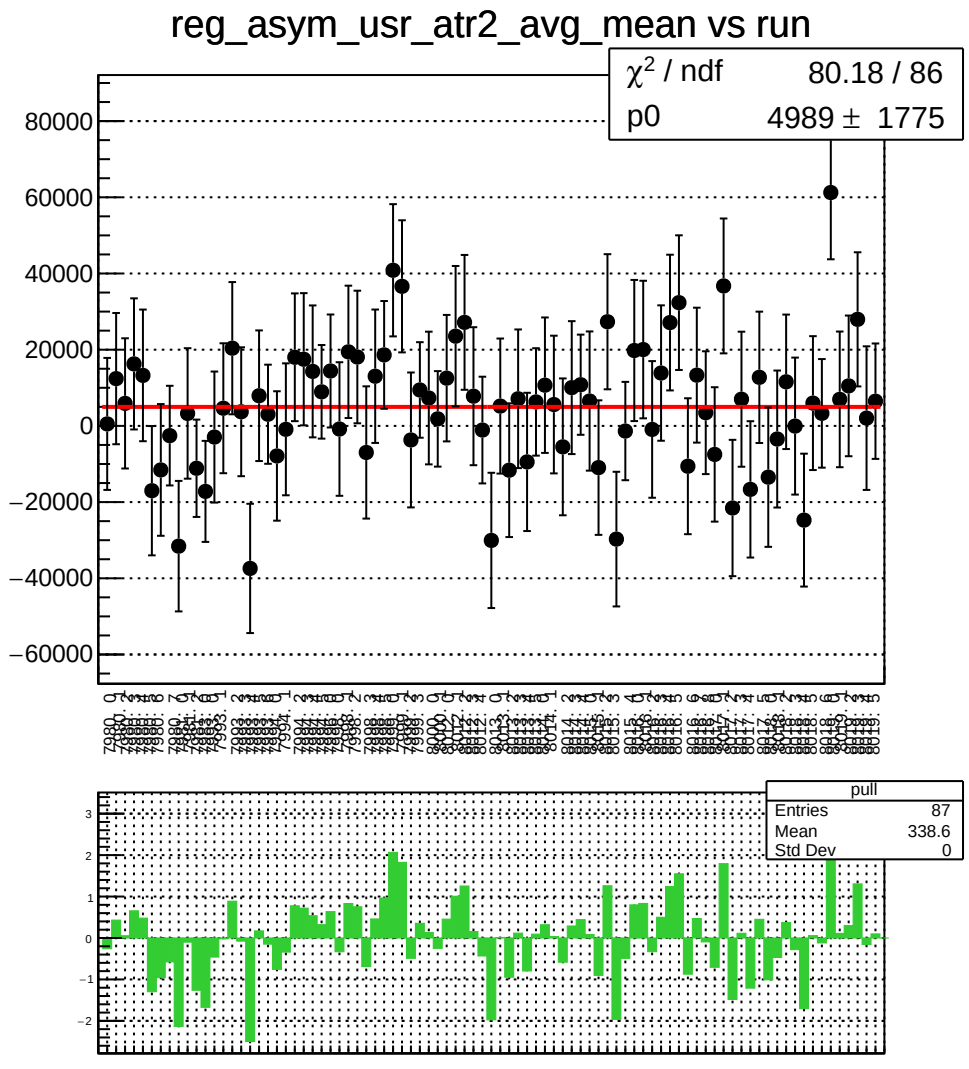

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.186e+05 / 86
p0 43.49 ± 0.03621
500
400
300
200
100

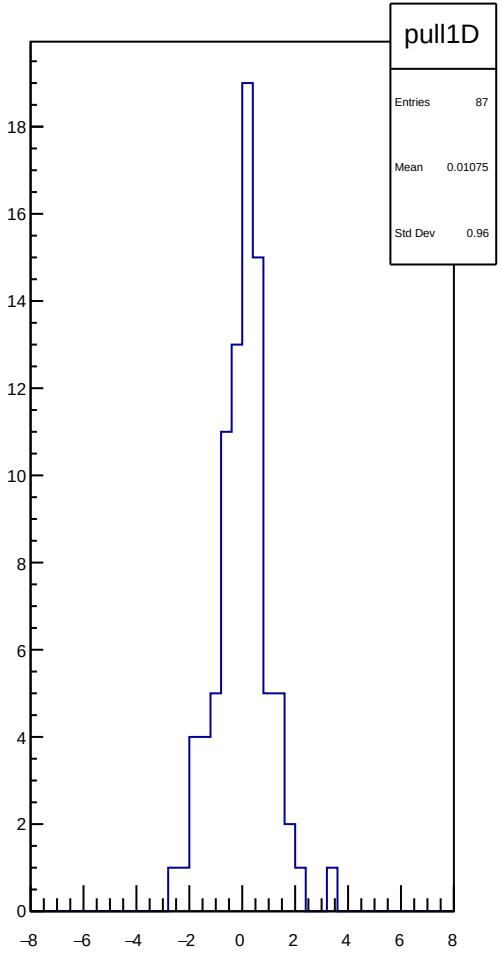

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.78 / 86
p0 −0.01925 ± 0.05122
pull
Entries 87
Mean 120.7
Std Dev 0
pull1D
Entries 87
Mean −0.02936
Std Dev 0.9572

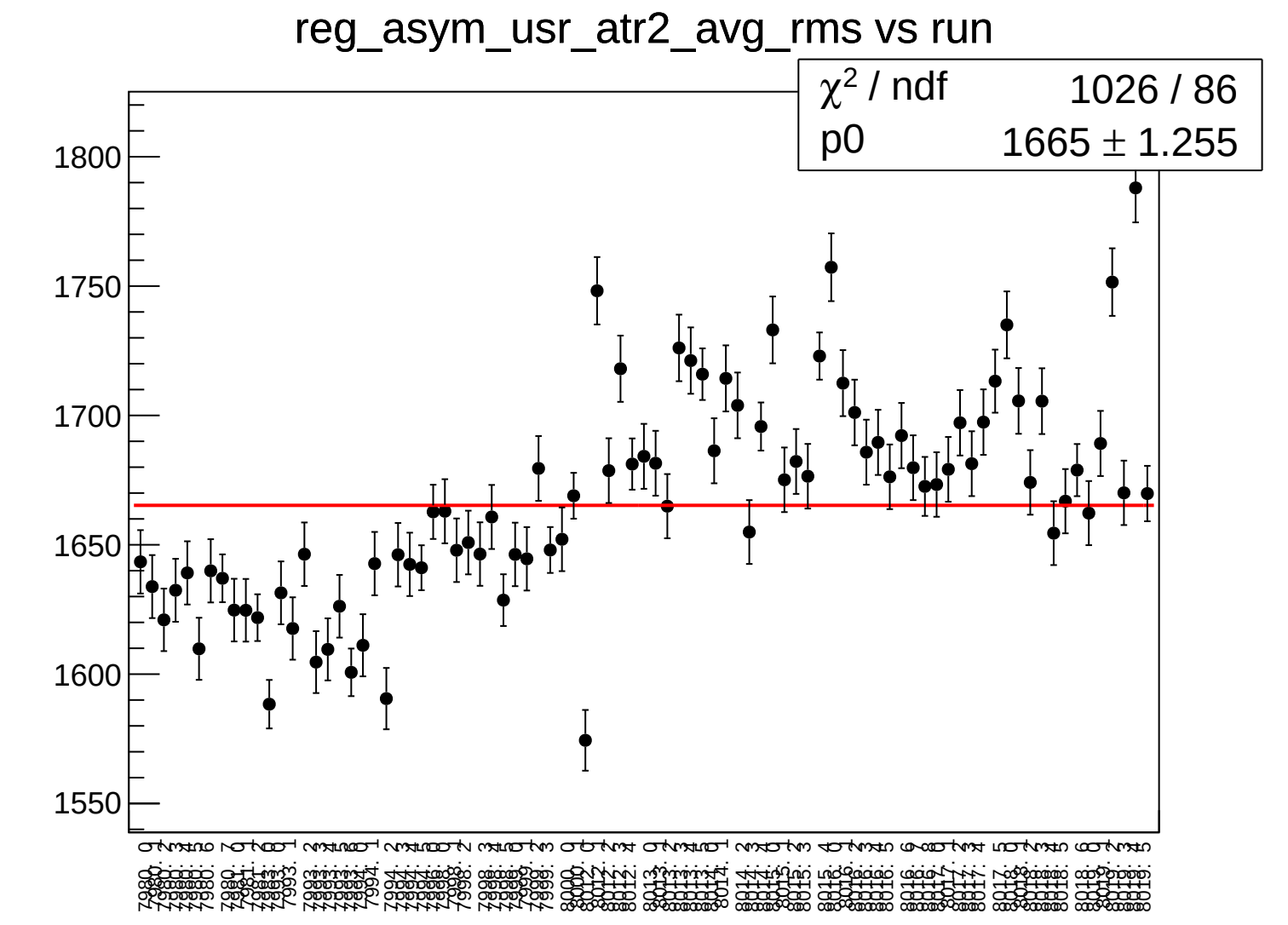

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.186e+05 / 86
p0 43.49 ± 0.03621
500
400
300
200
100

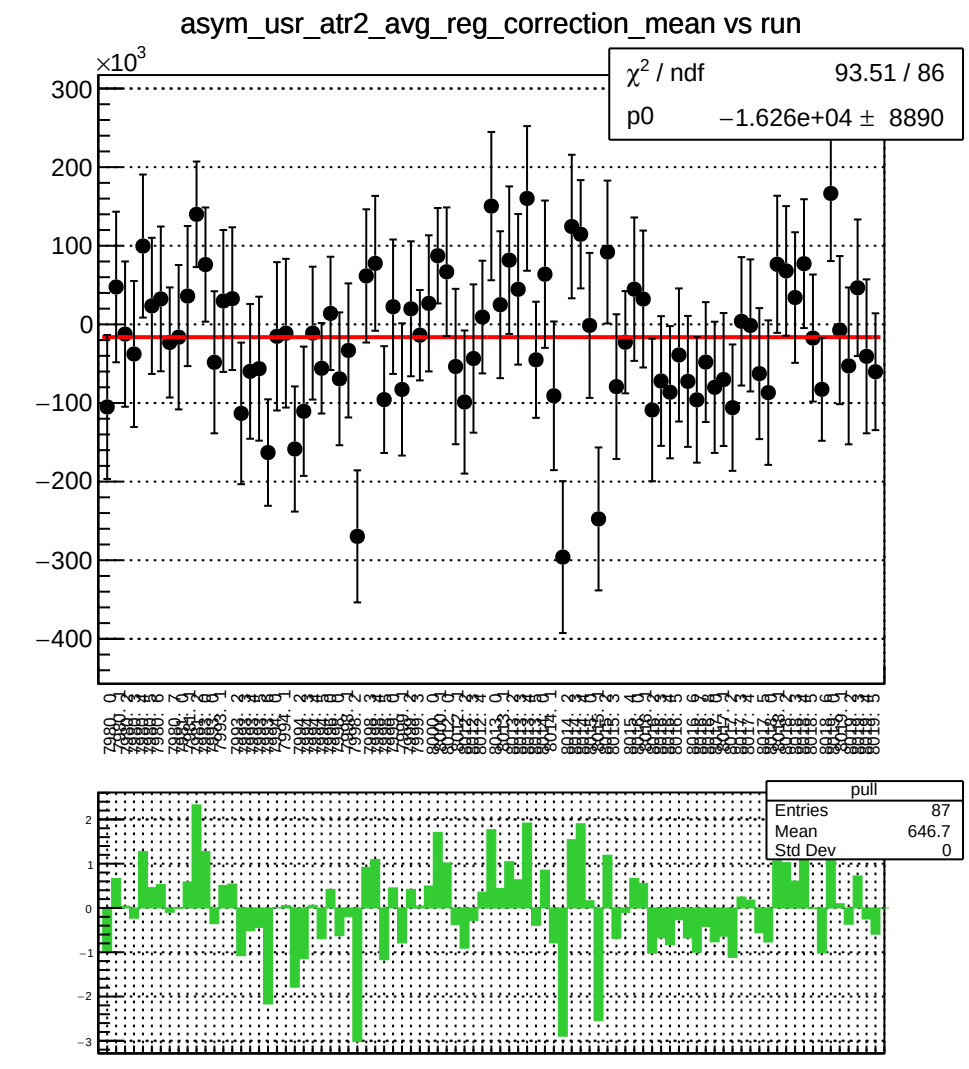

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.7 / 86
p0 7.341e−14 ± 6.302e−14
10
5
0
−5
−10
−15
pull
Entries 87
Mean 41.74
Std Dev 27.5
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.1782
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

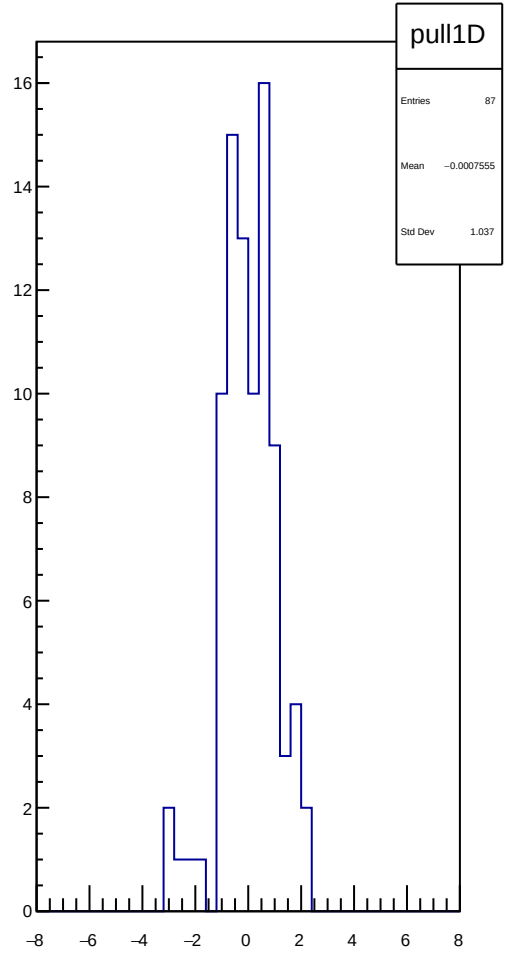

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.833e+05 / 86
p0 4.406e−11 ± 4.456e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

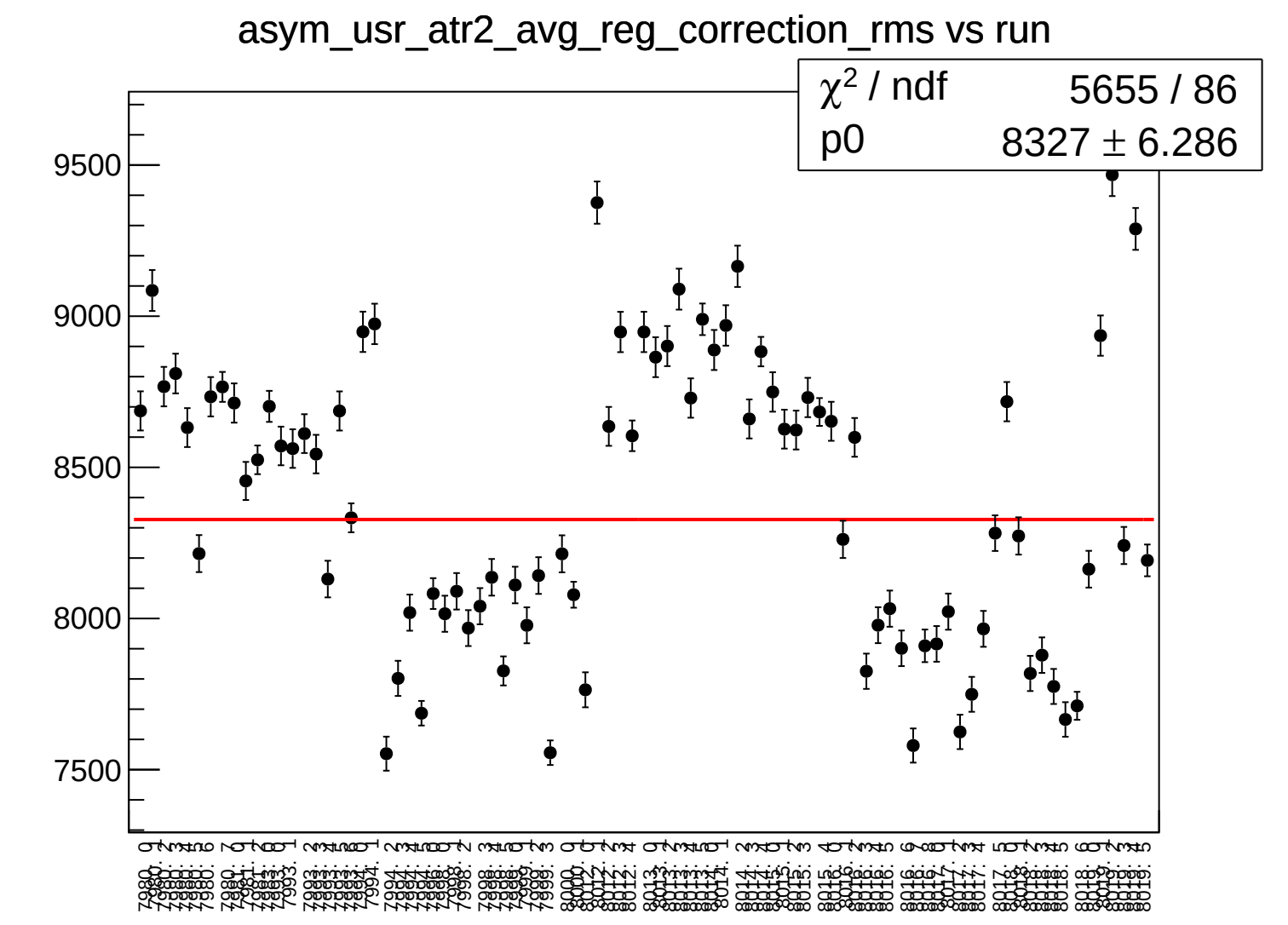

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.18 / 86
p0 4989 ± 1775
pull
Entries 87
Mean 338.6
Std Dev 0

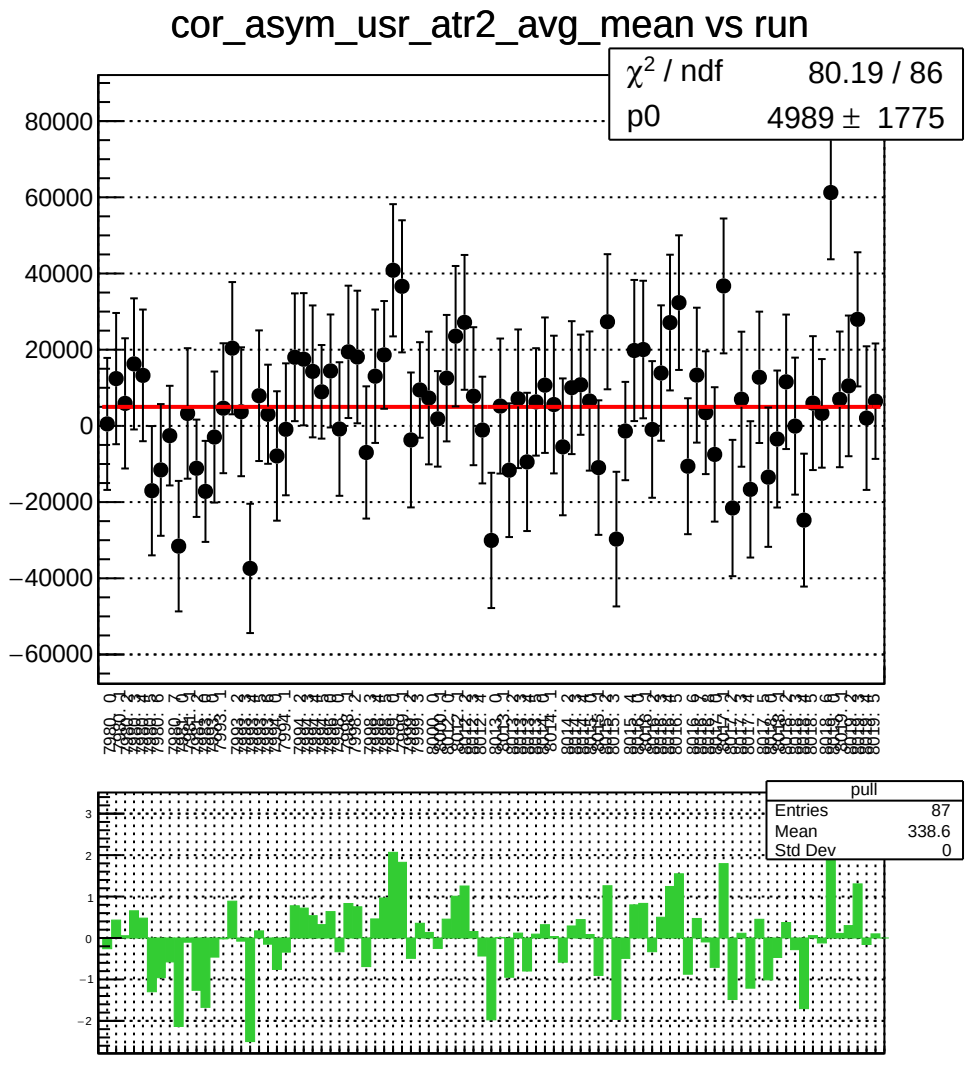

pull1D
Entries 87
Mean 0.01075
Std Dev 0.96

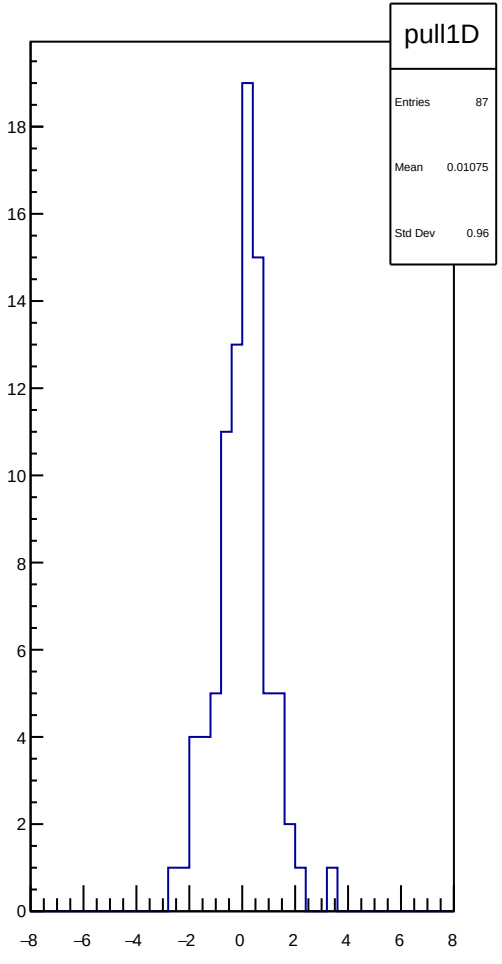

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 1026 / 86
p0 1665 ± 1.255
1800
1750
1700
1650
1600
1550

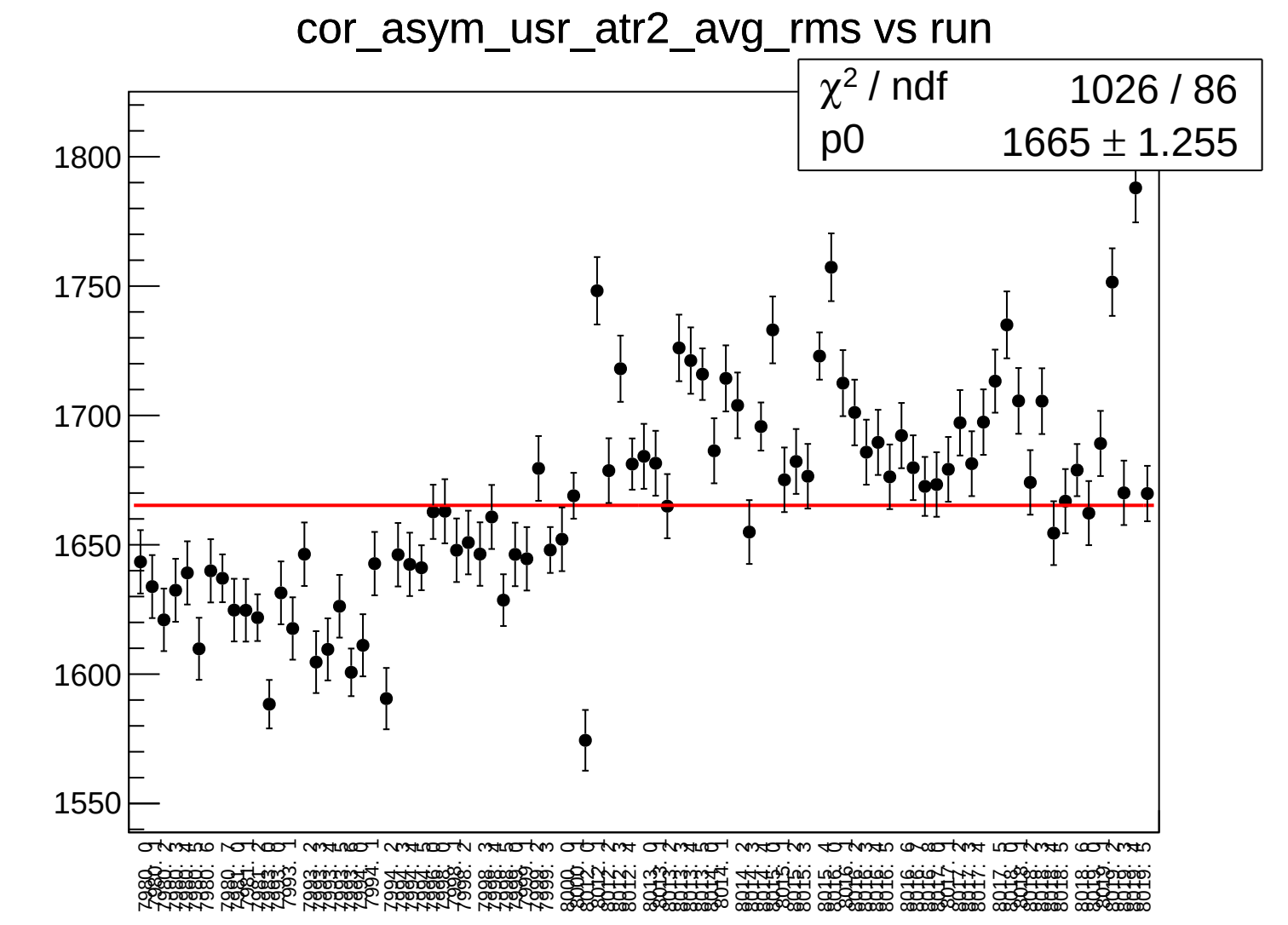

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 93.51 / 86
p0 −1.626e+04 ± 8890
pull
Entries 87
Mean 646.7
Std Dev 0

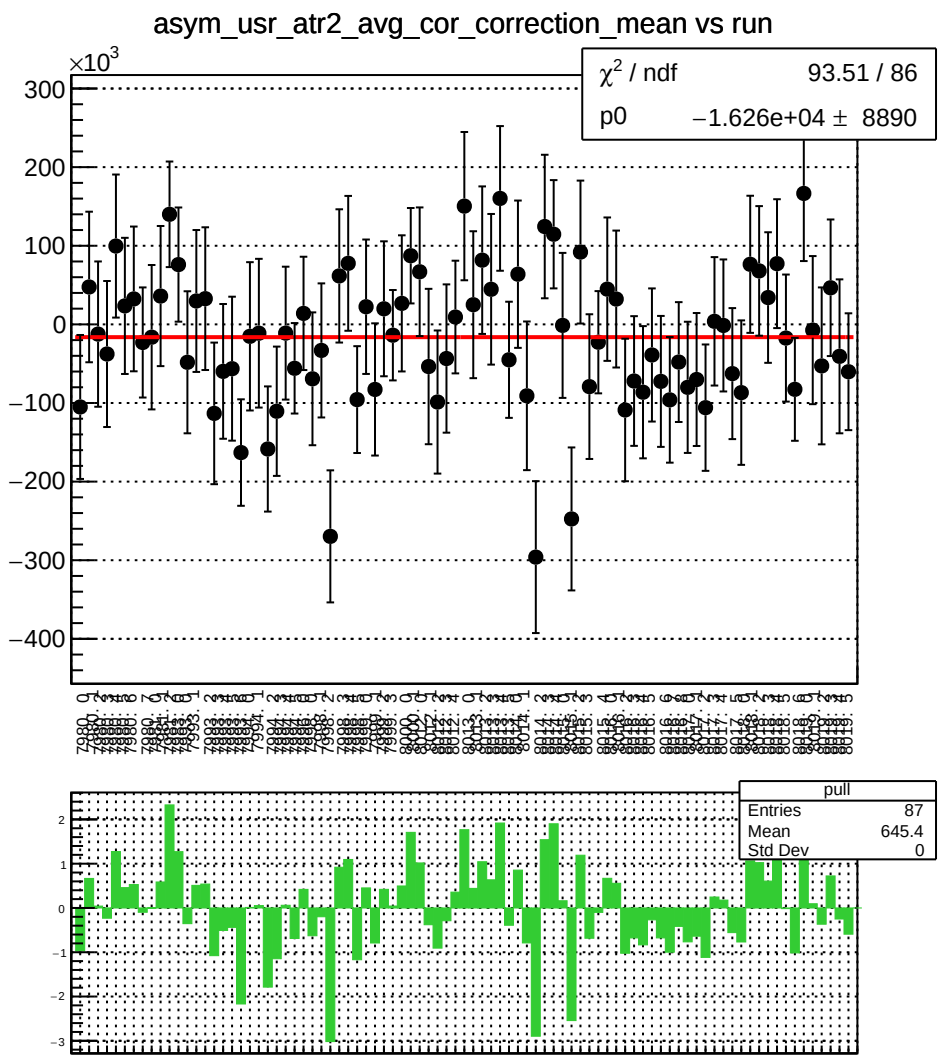

pull1D
Entries 87
Mean −0.0007555
Std Dev 1.037

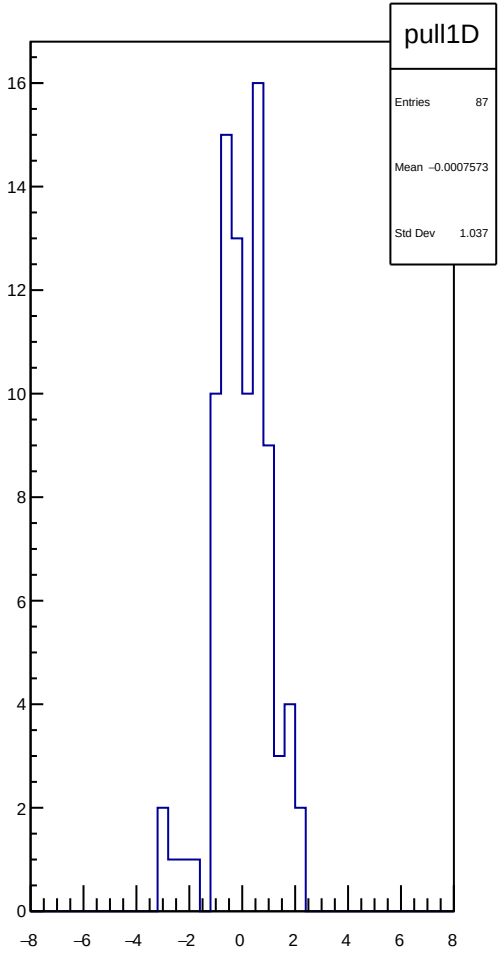

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 5655 / 86
p0 8327 ± 6.286
9500
9000
8500
8000
7500

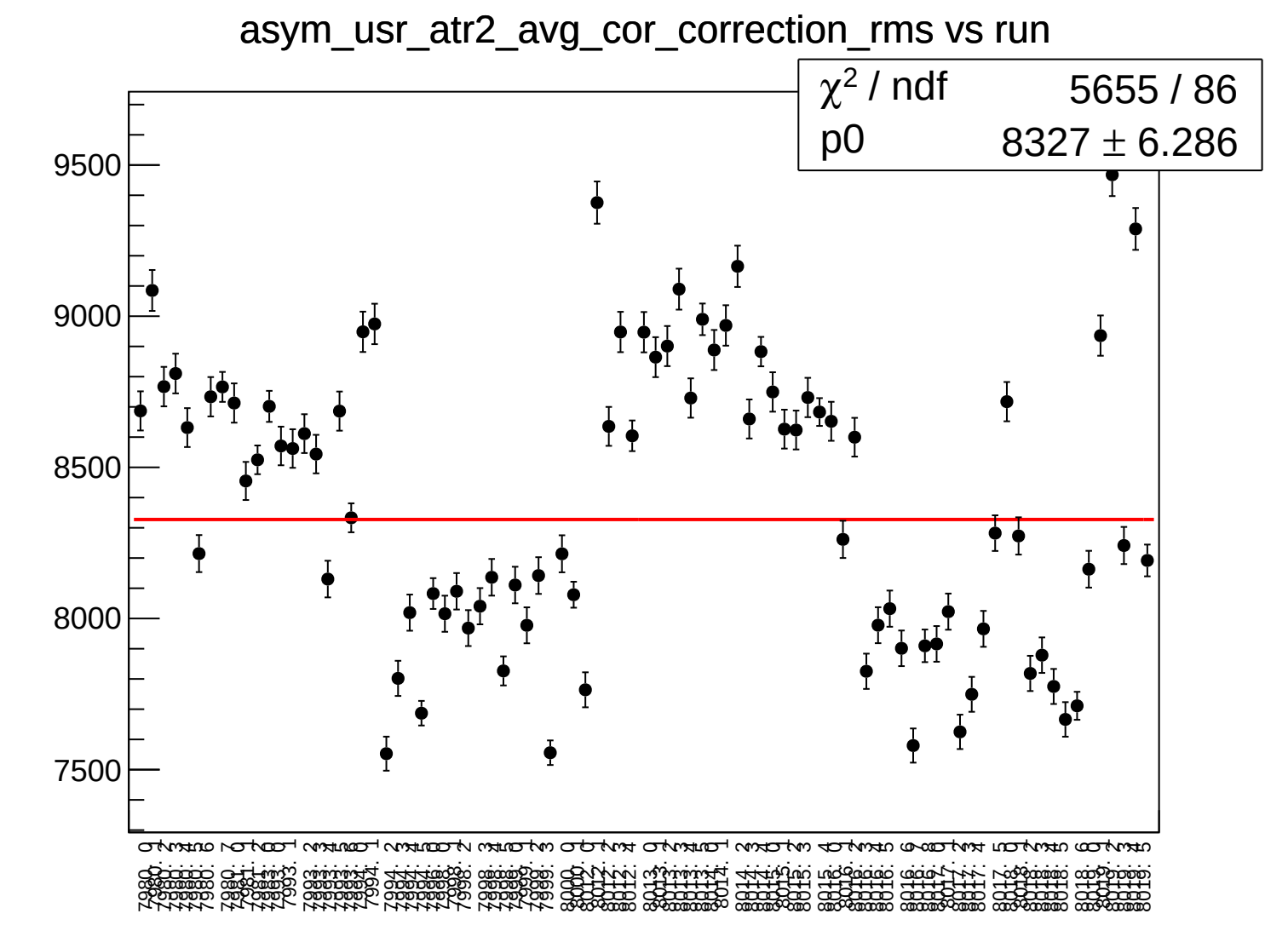

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.19 / 86
p0 4989 ± 1775
pull
Entries 87
Mean 338.6
Std Dev 0

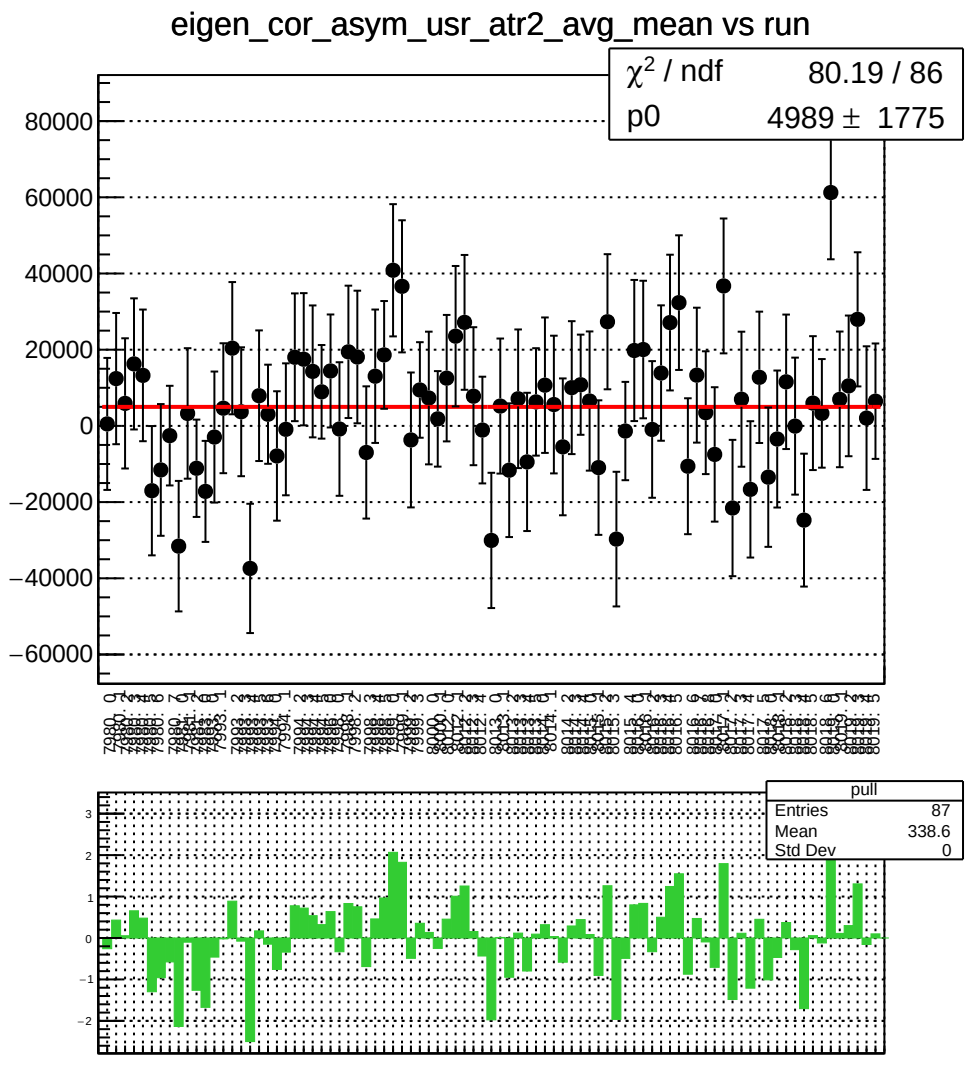

pull1D
Entries 87
Mean 0.01075
Std Dev 0.96

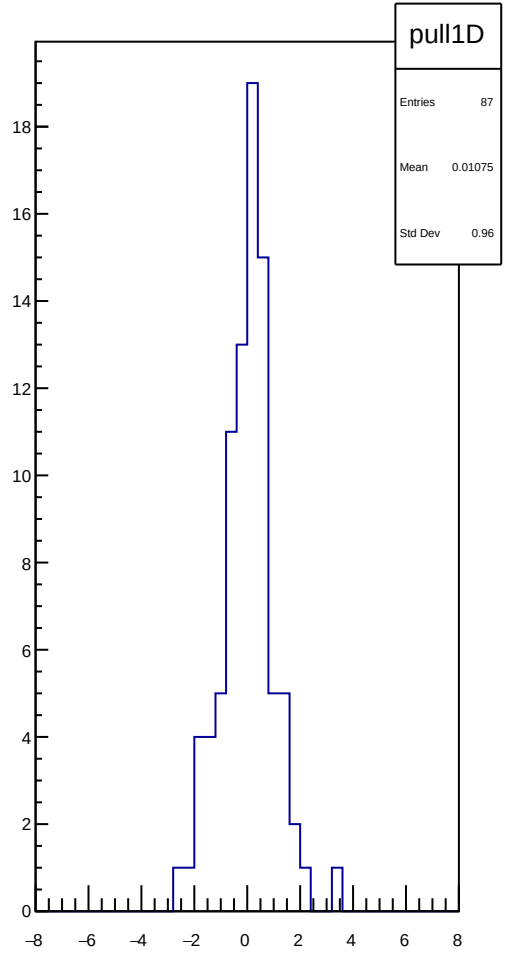

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1026 / 86
p0 1665 ± 1.255
1800
1750
1700
1650
1600
1550

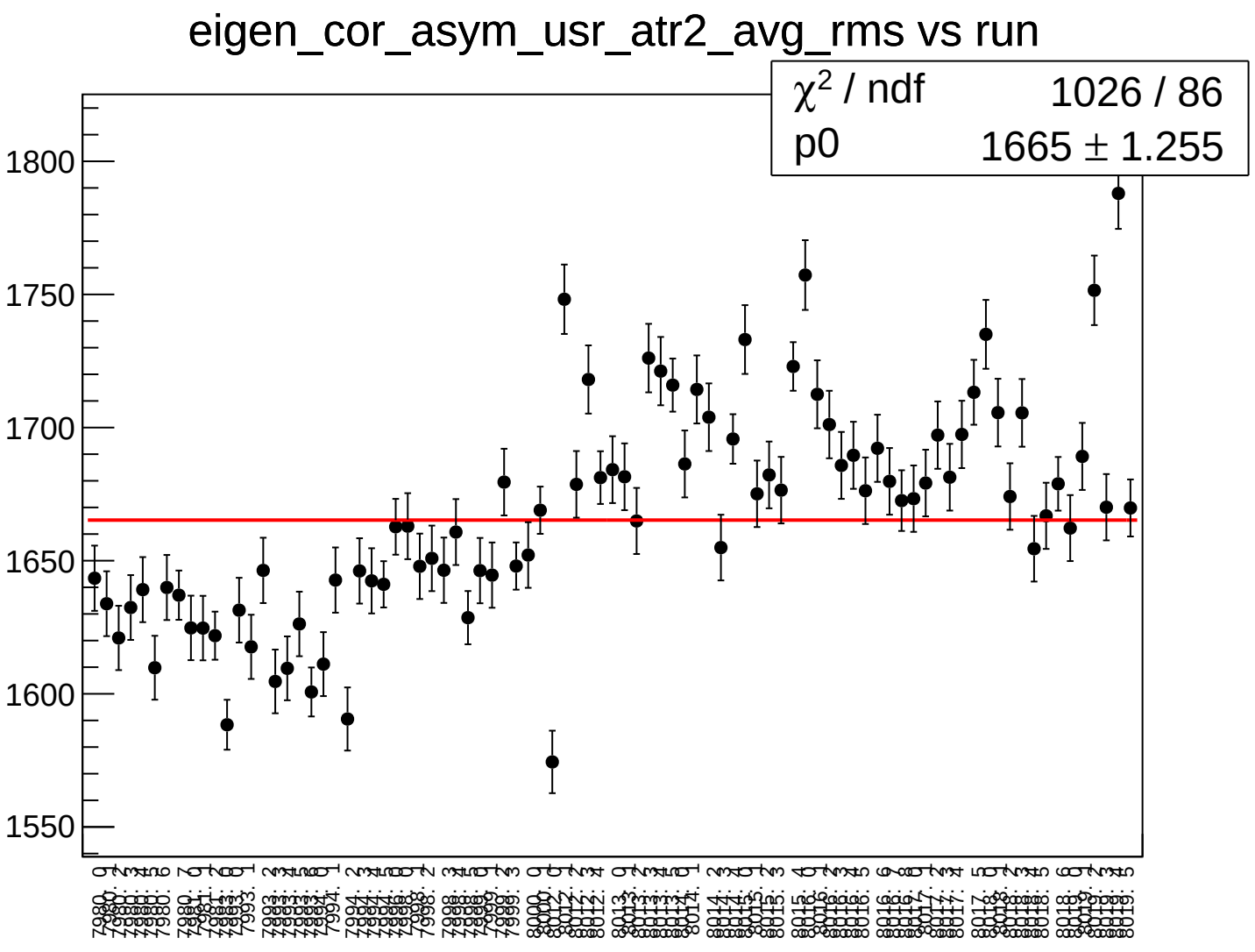

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 93.51 / 86
p0 −1.626e+04 ± 8890
pull
Entries 87
Mean 645.4
Std Dev 0

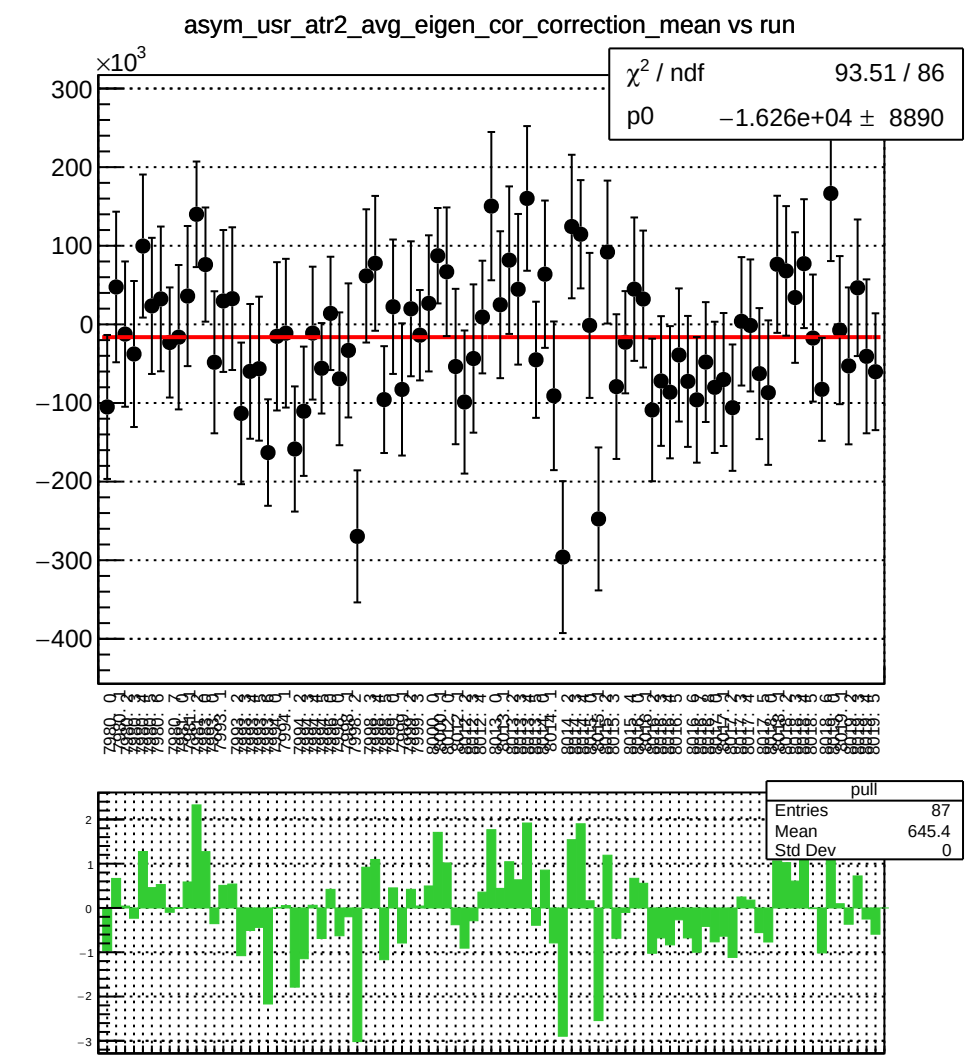

pull1D
Entries 87
Mean −0.0007573
Std Dev 1.037

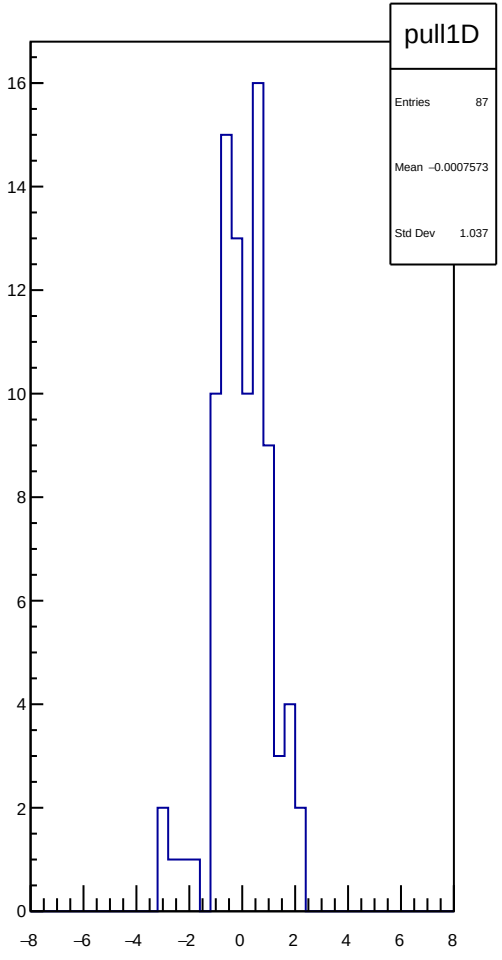

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 5655 / 86
p0 8327 ± 6.286
9500
9000
8500
8000
7500

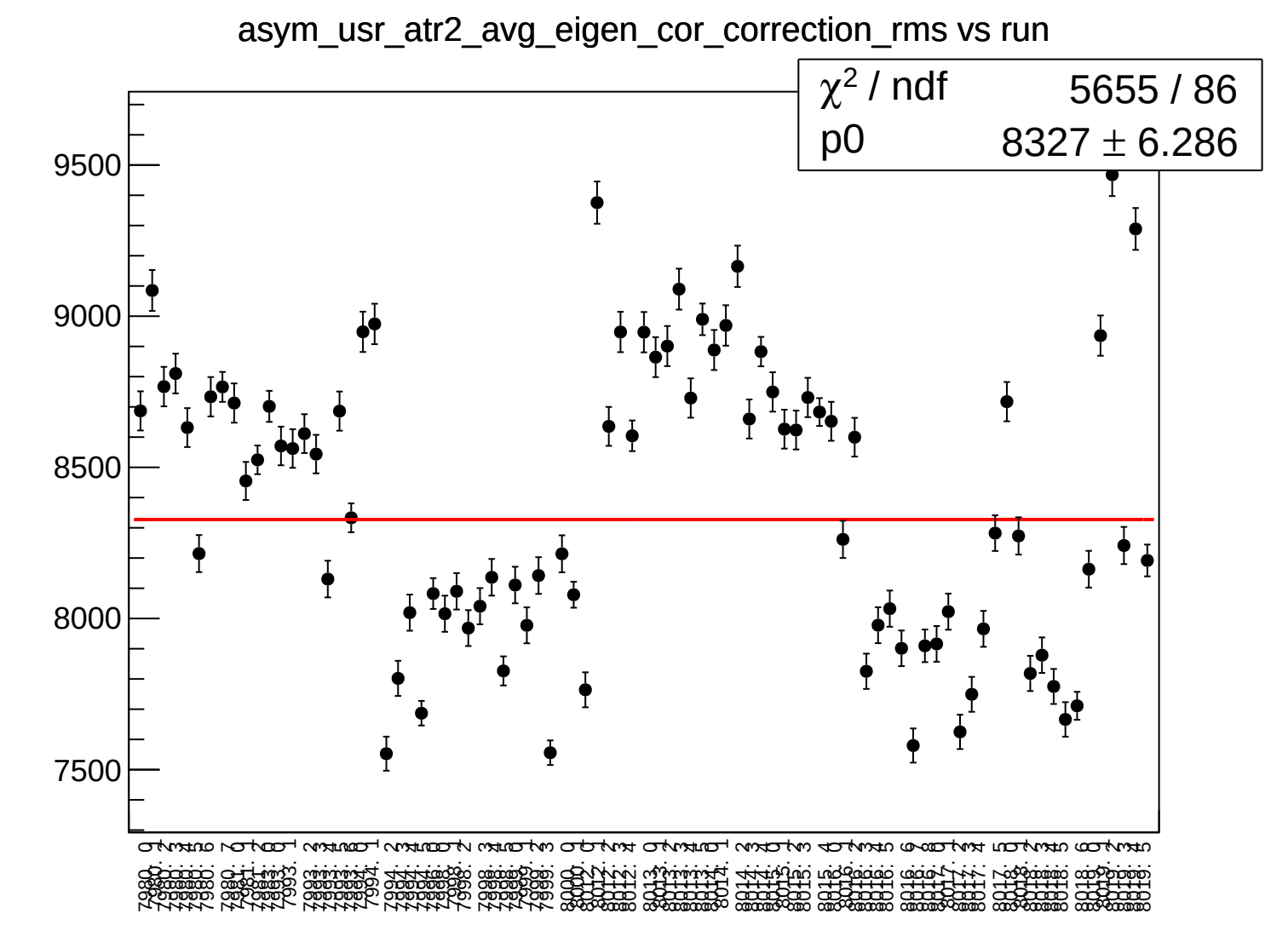

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.19 / 86
p0 4989 ± 1775
pull
Entries 87
Mean 338.6
Std Dev 0

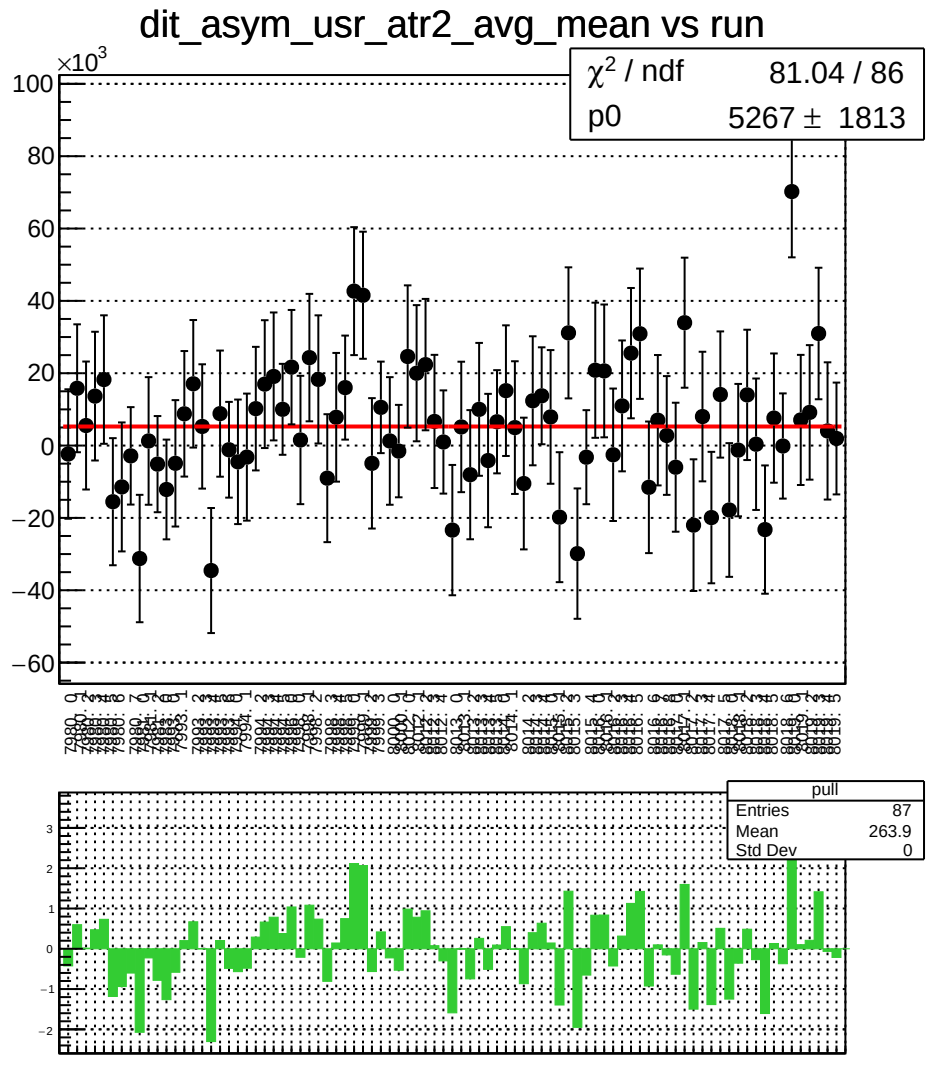

pull1D
Entries 87
Mean 0.01075
Std Dev 0.96

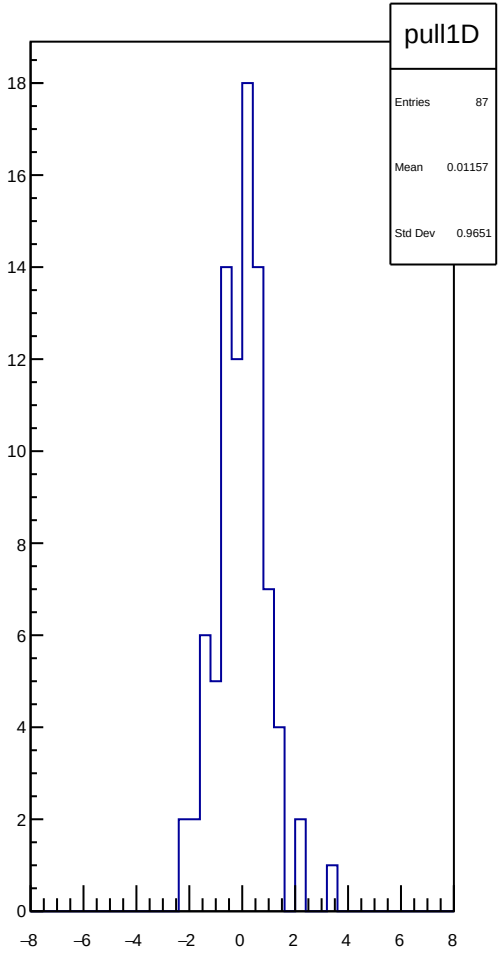

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1026 / 86
p0 1665 ± 1.255
1800
1750
1700
1650
1600
1550

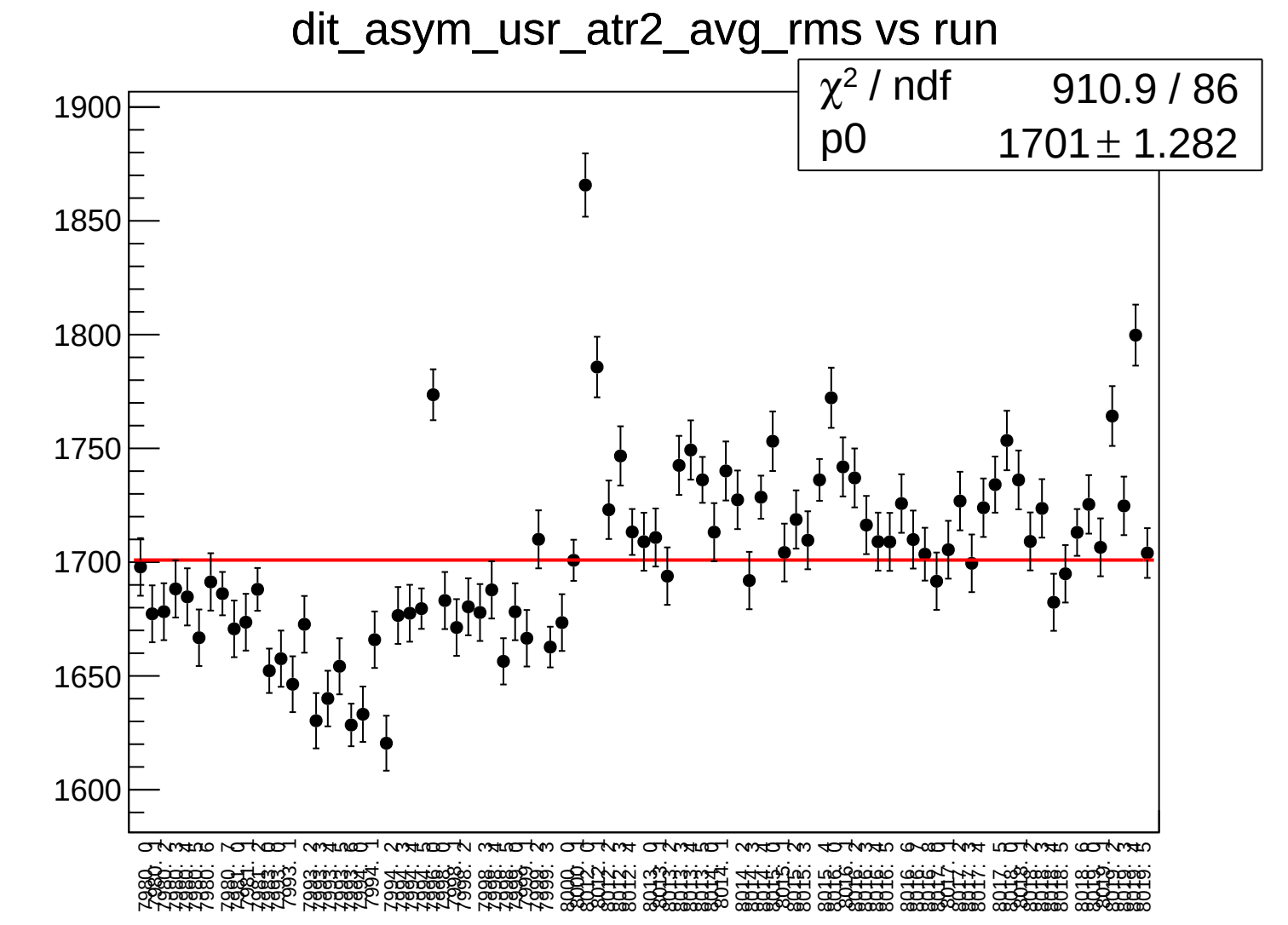

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.51 / 86
p0 −1.626e+04 ± 8890
pull
Entries 87
Mean 645.4
Std Dev 0

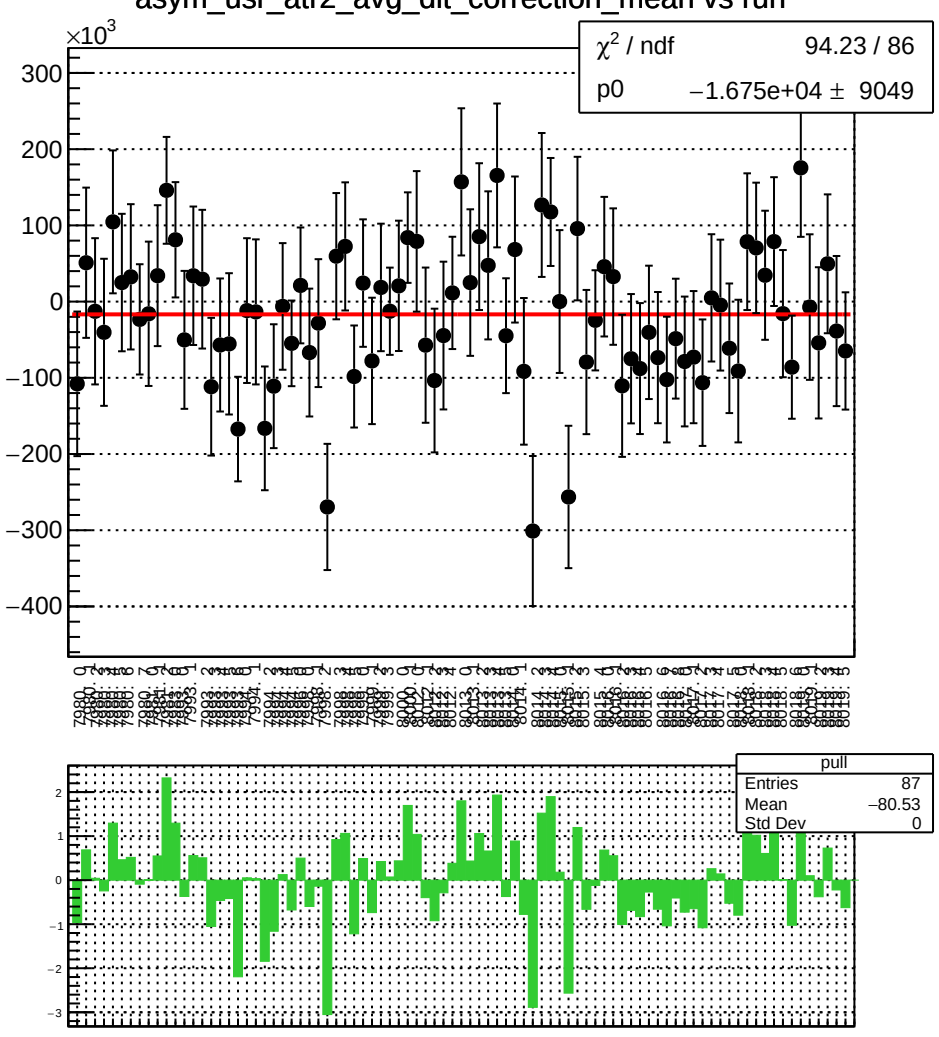

pull1D
Entries 87
Mean −0.0007573
Std Dev 1.037

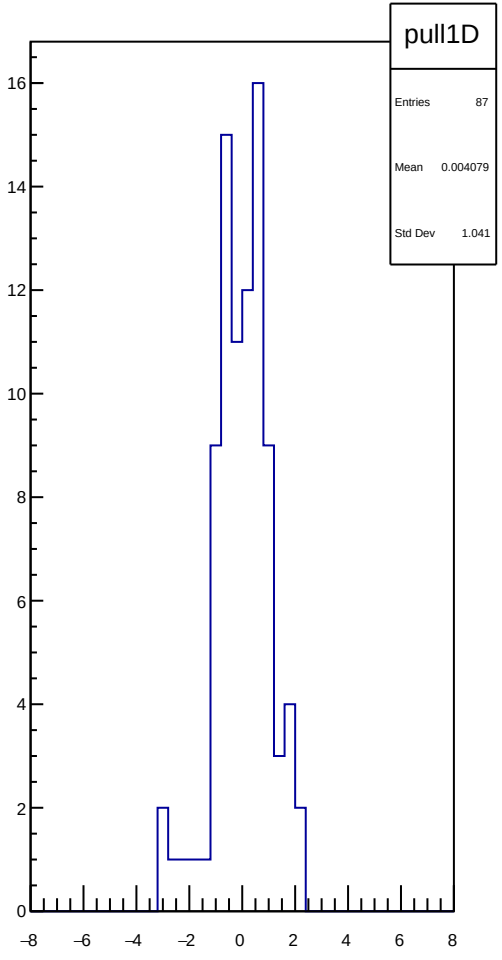

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5655 / 86
p0 8327 ± 6.286
9500
9000
8500
8000
7500

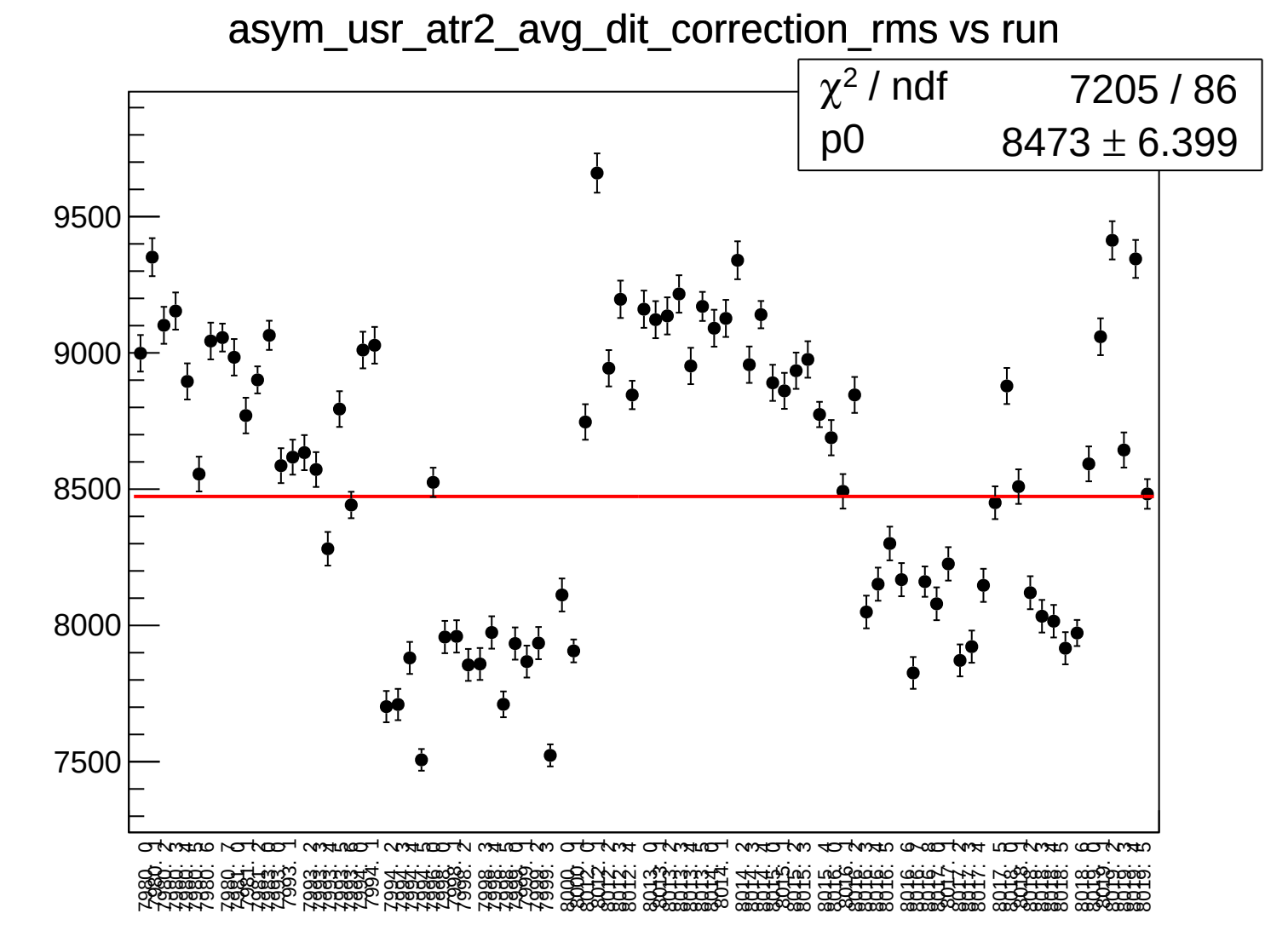

dit_asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 81.04 / 86
p0 5267 ± 1813
pull
Entries 87
Mean 263.9
Std Dev 0

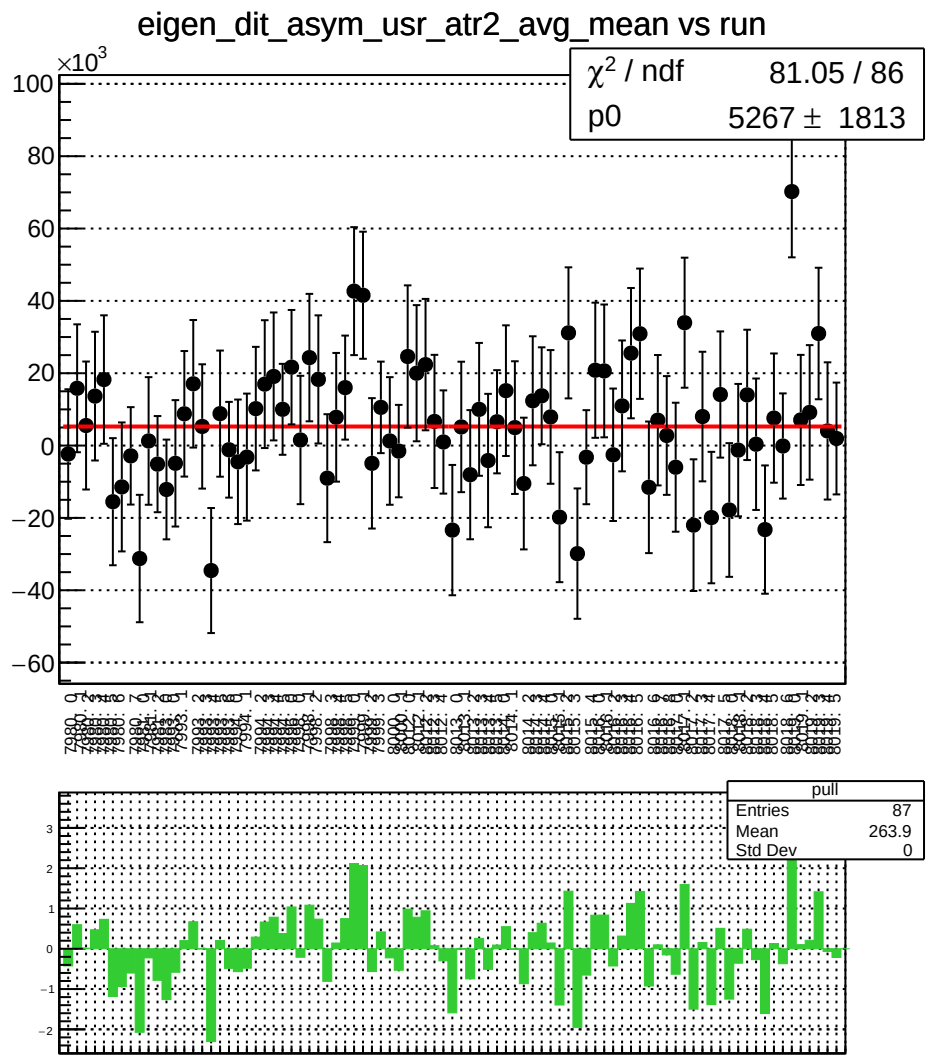

pull1D
Entries 87
Mean 0.01157
Std Dev 0.9651

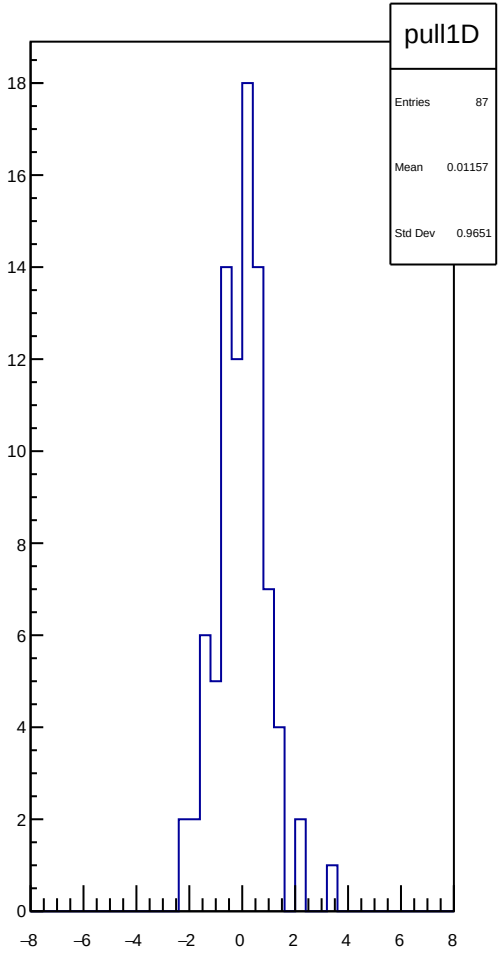

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 910.9 / 86
p0 1701 ± 1.282
1900
1850
1800
1750
1700
1650
1600

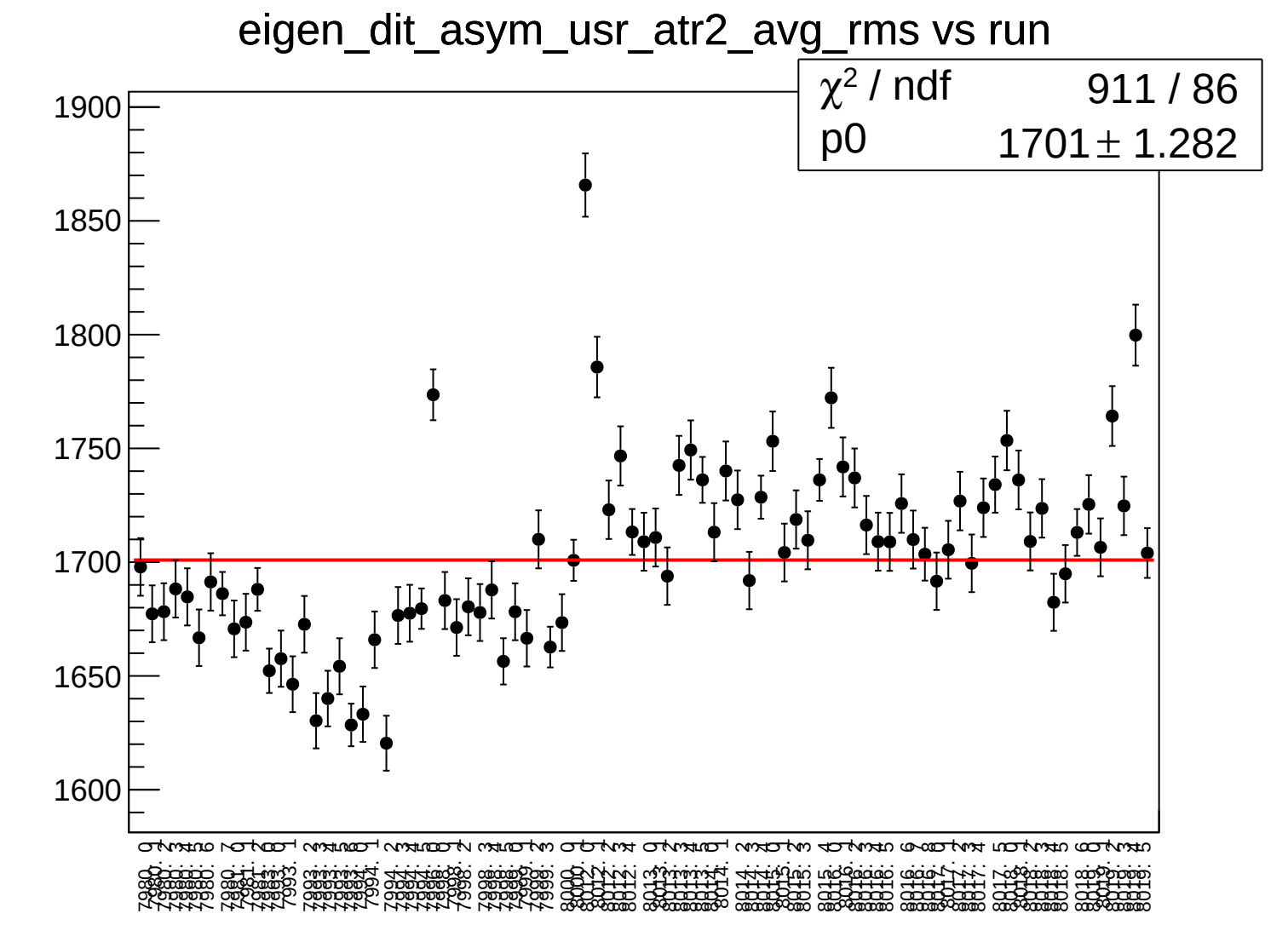

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.23 / 86
p0 −1.675e+04 ± 9049
pull
Entries 87
Mean −80.53
Std Dev 0

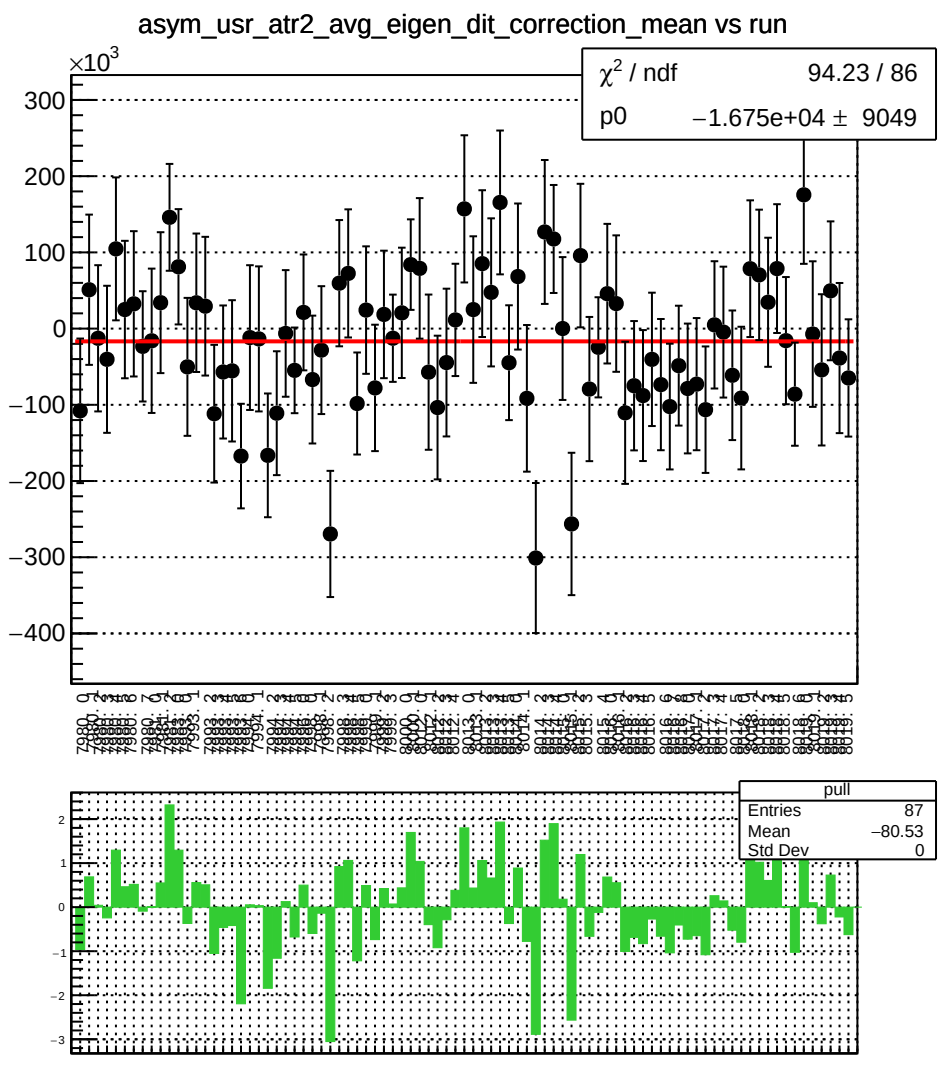

pull1D
Entries 87
Mean 0.004079
Std Dev 1.041

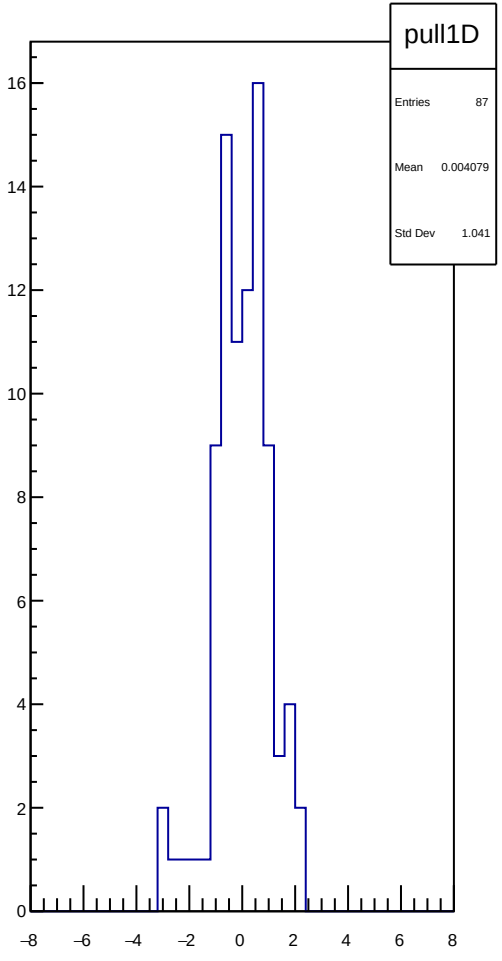

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 7205 / 86
p0 8473 ± 6.399
9500
9000
8500
8000
7500

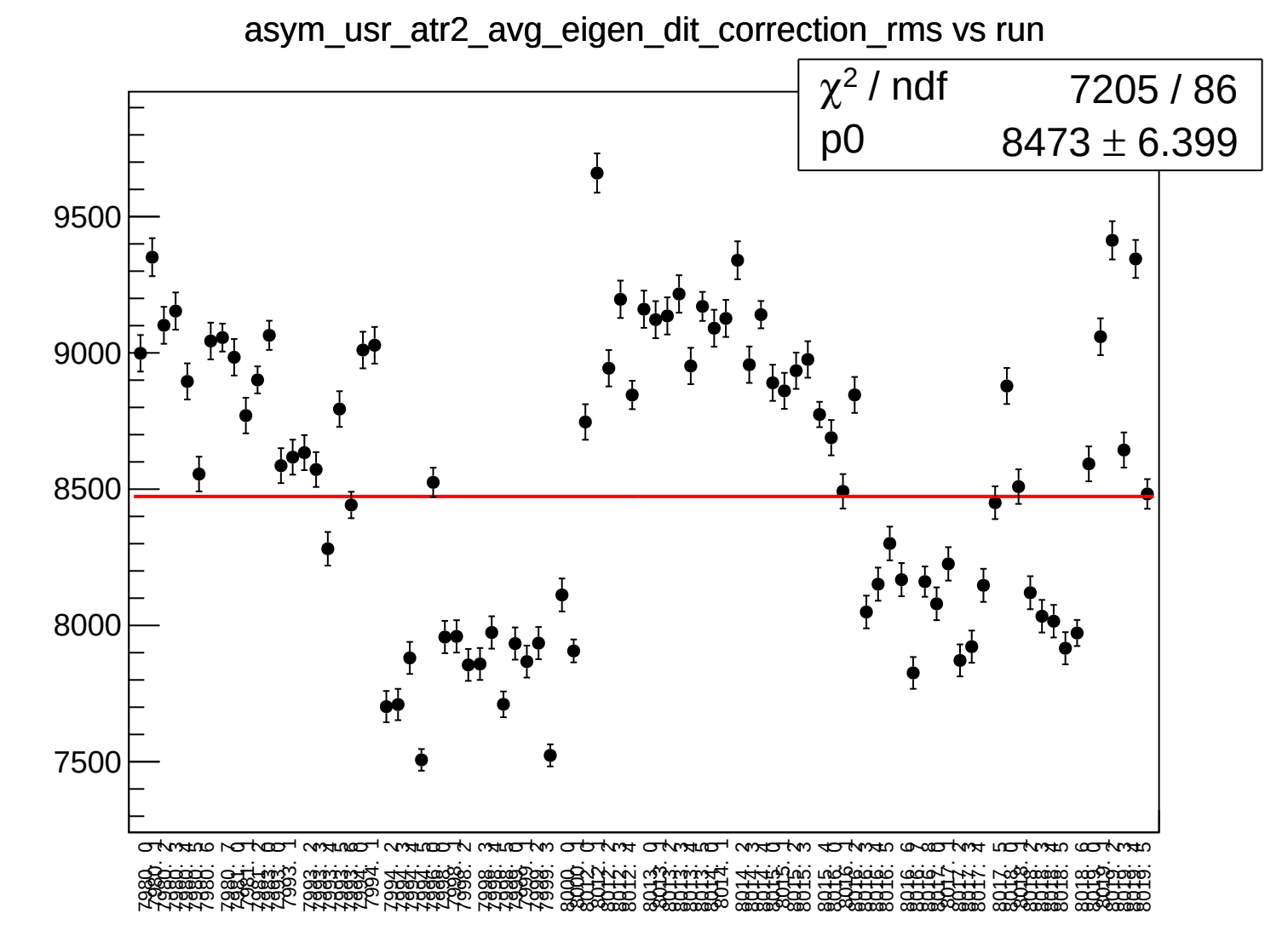

eigen_dit_asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 81.05 / 86
p0 5267 ± 1813
pull
Entries 87
Mean 263.9
Std Dev 0

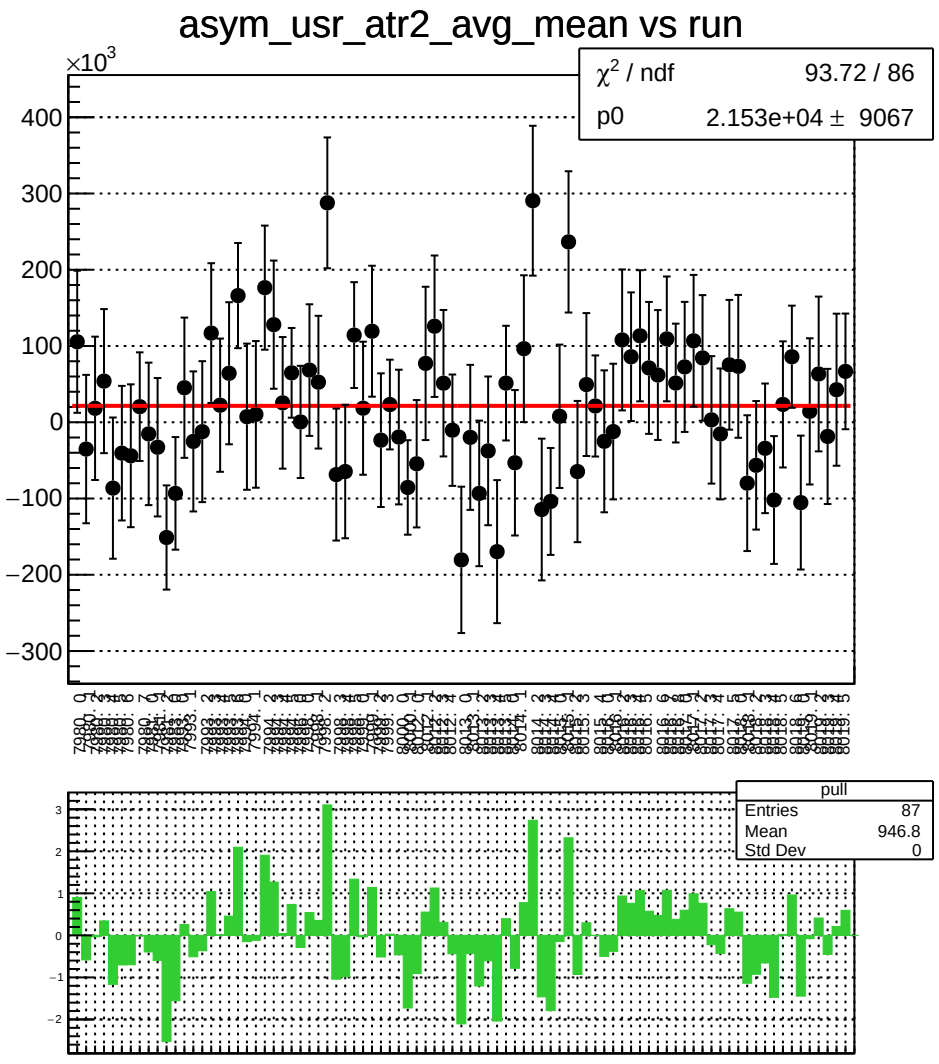

pull1D
Entries 87
Mean 0.01157
Std Dev 0.9651

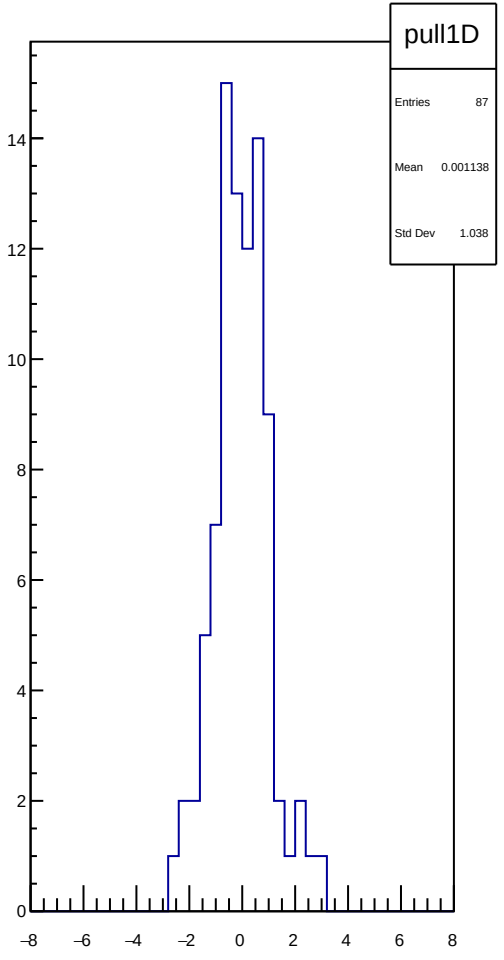

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 911 / 86
p0 1701 ± 1.282
1900
1850
1800
1750
1700
1650
1600

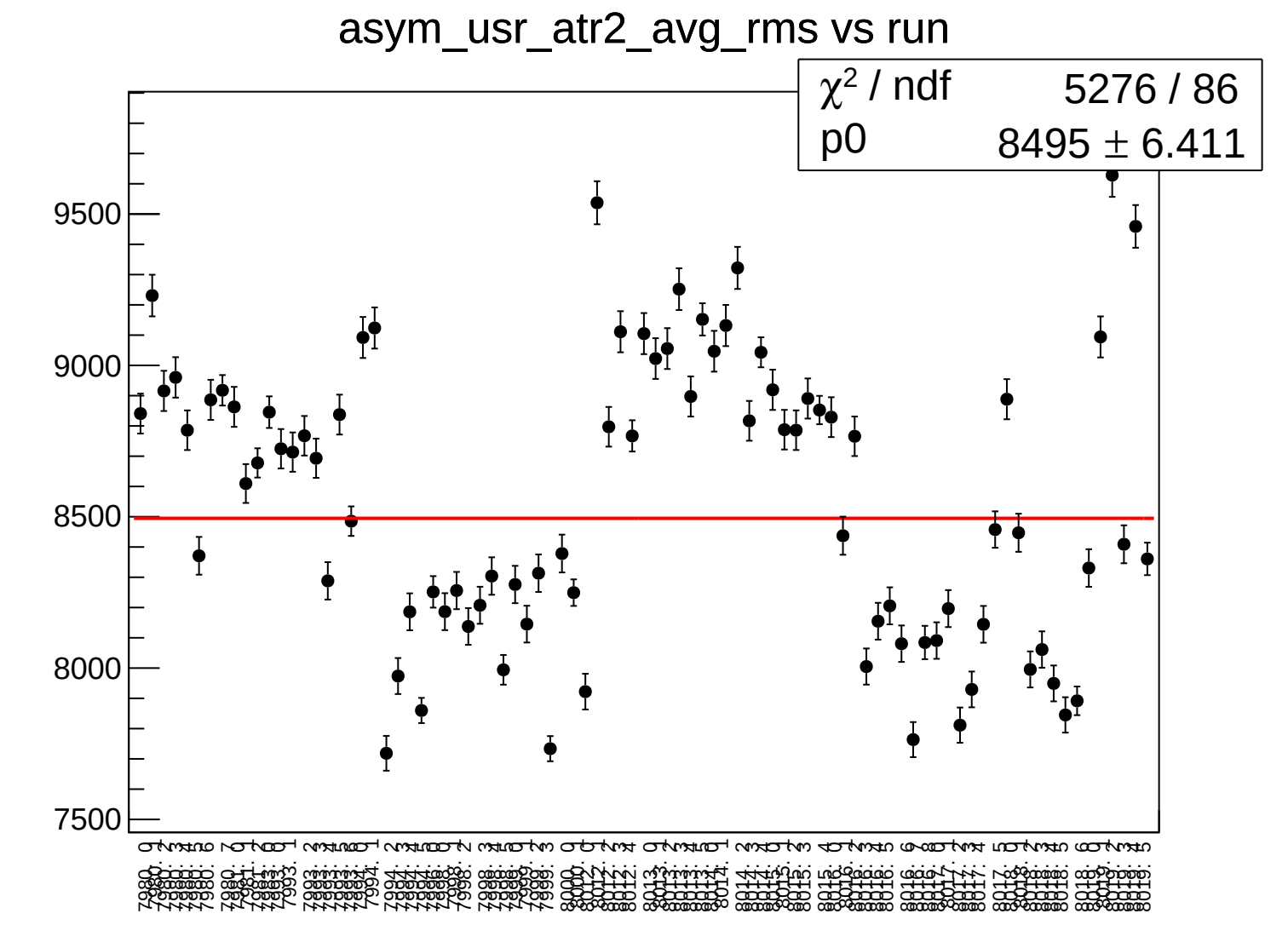

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.23 / 86
p0 −1.675e+04 ± 9049
pull
Entries 87
Mean −80.53
Std Dev 0

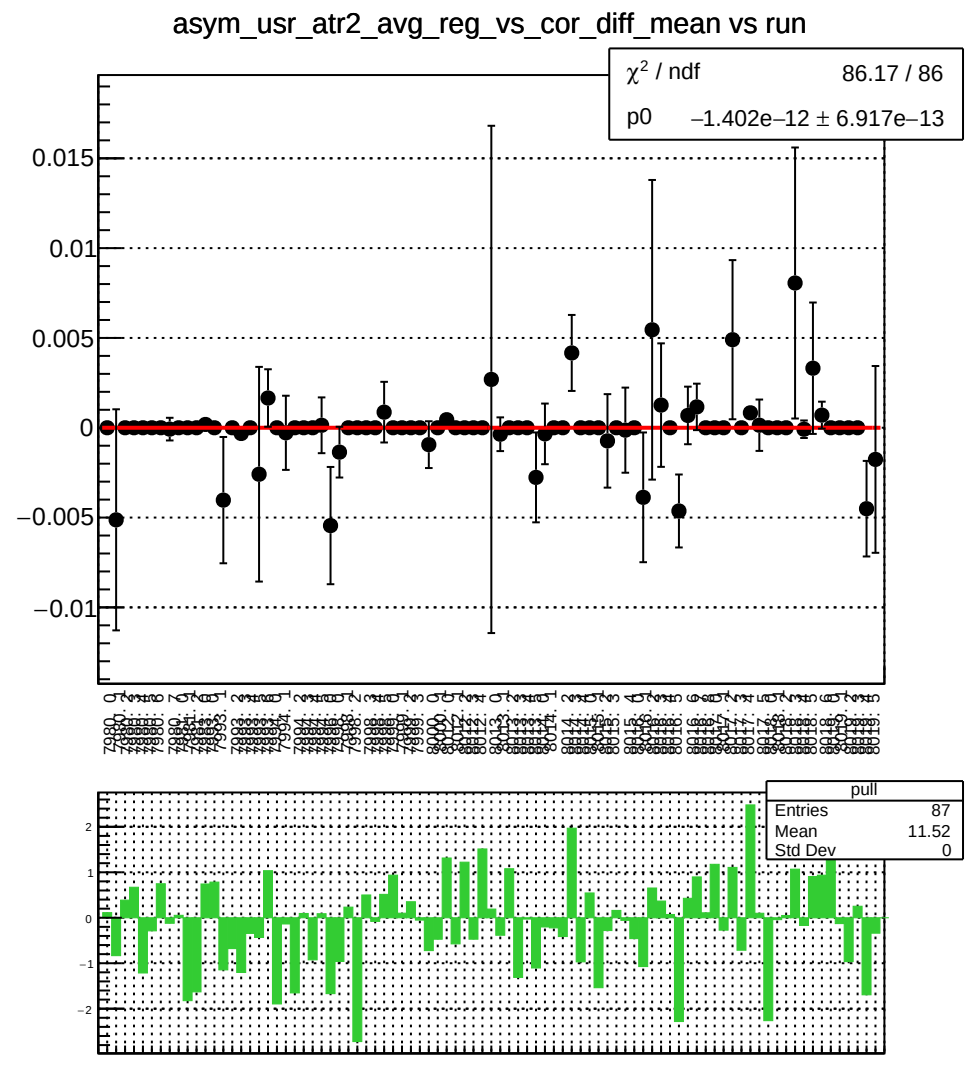

pull1D
Entries 87
Mean 0.004079
Std Dev 1.041

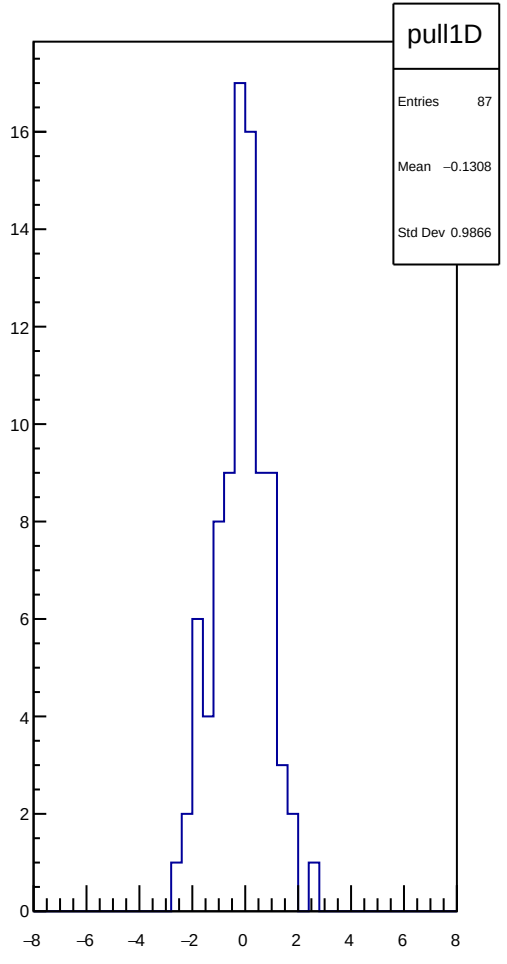

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7205 / 86
p0 8473 ± 6.399
9500
9000
8500
8000
7500

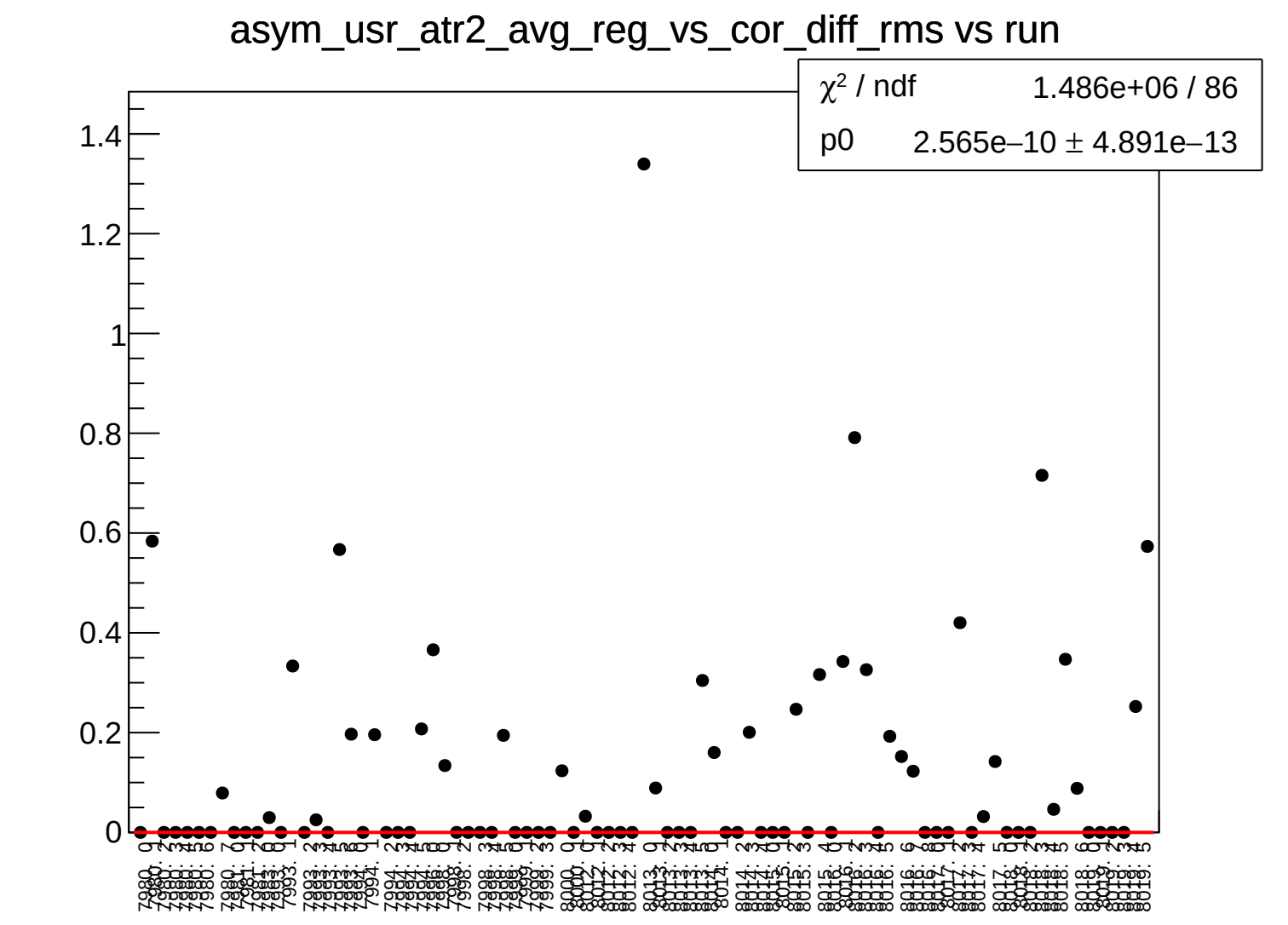

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 93.72 / 86
p0 2.153e+04 ± 9067
pull
Entries 87
Mean 946.8
Std Dev 0

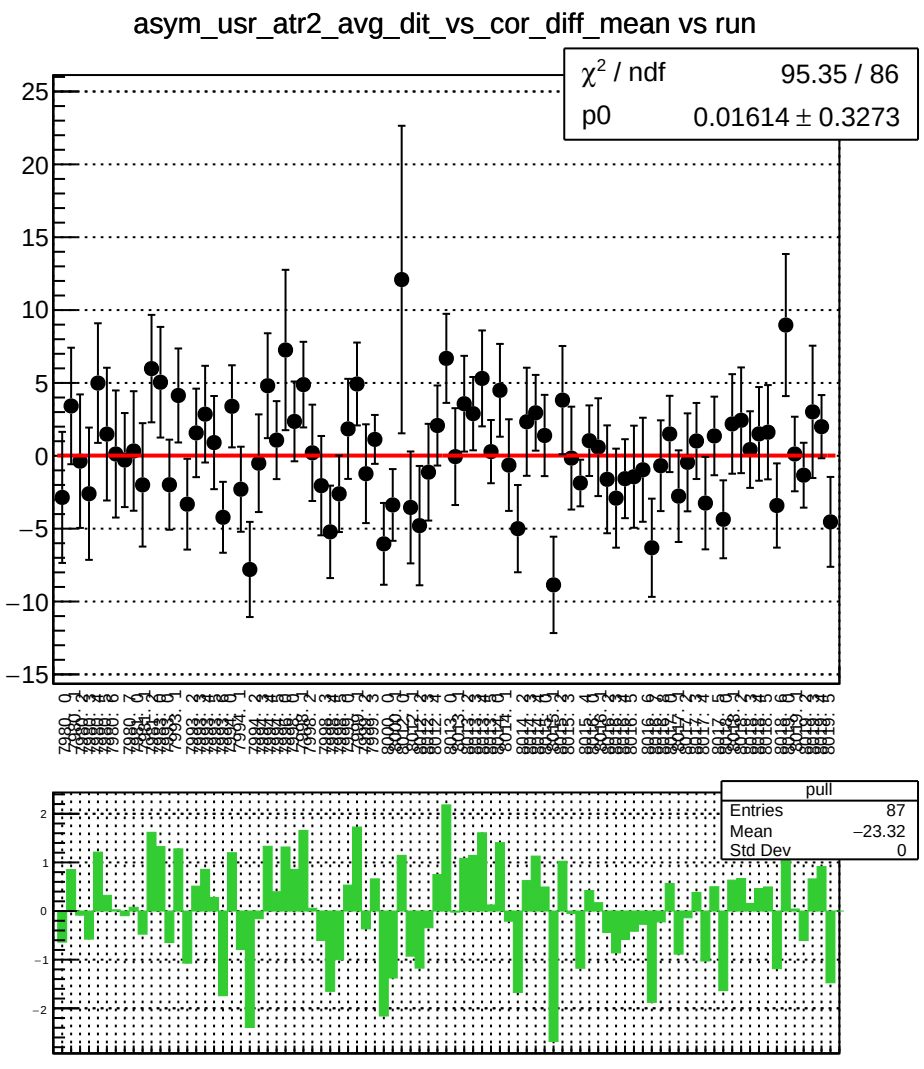

pull1D
Entries 87
Mean 0.001138
Std Dev 1.038

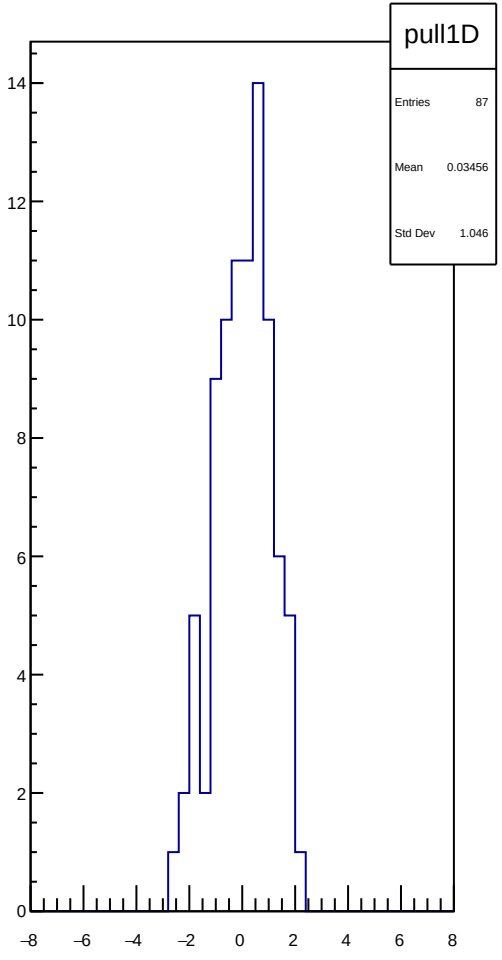

asym_usr_atr2_avg_rms vs run
χ² / ndf 5276 / 86
p0 8495 ± 6.411
9500
9000
8500
8000
7500

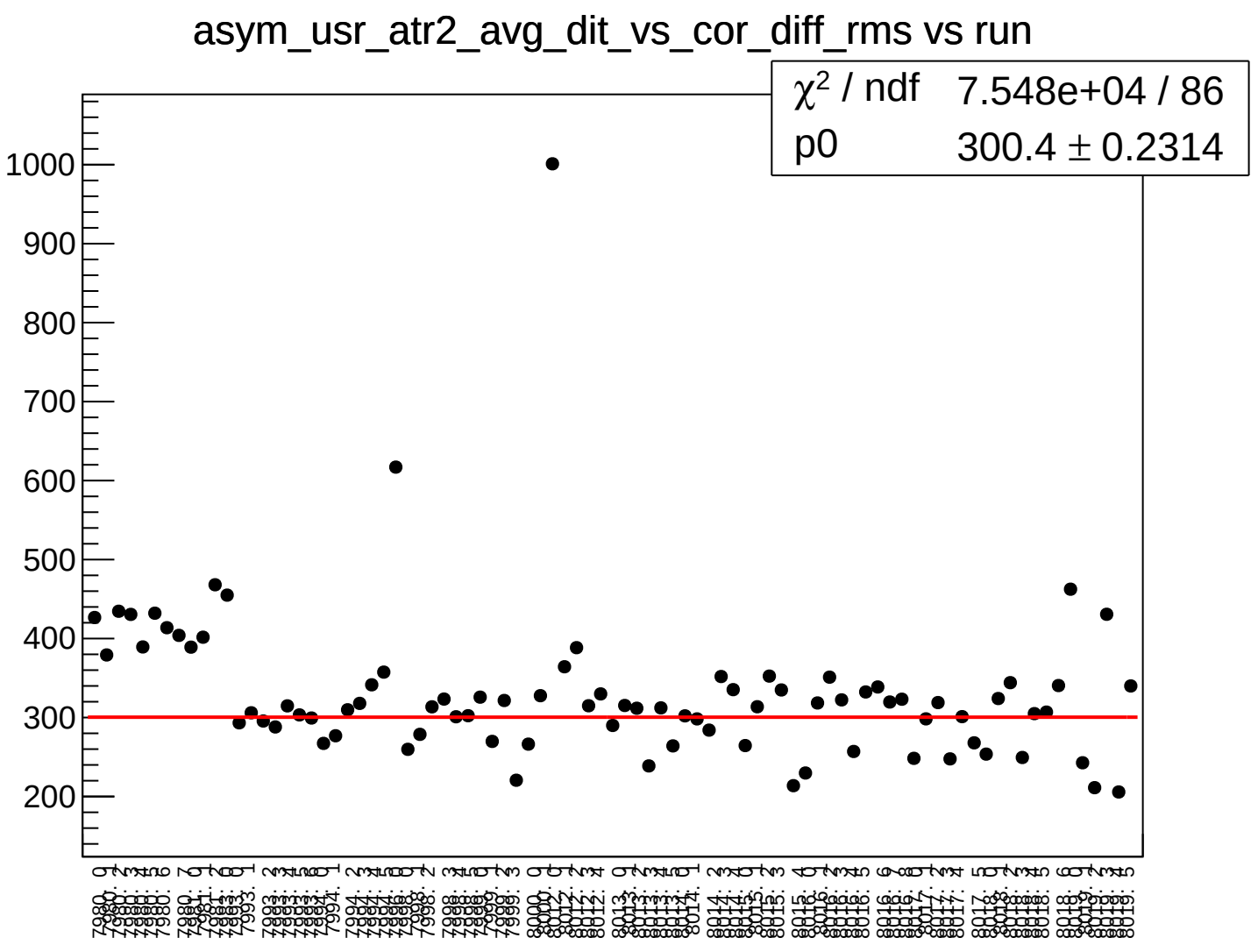

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.17 / 86
p0 −1.402e−12 ± 6.917e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 11.52
Std Dev 0

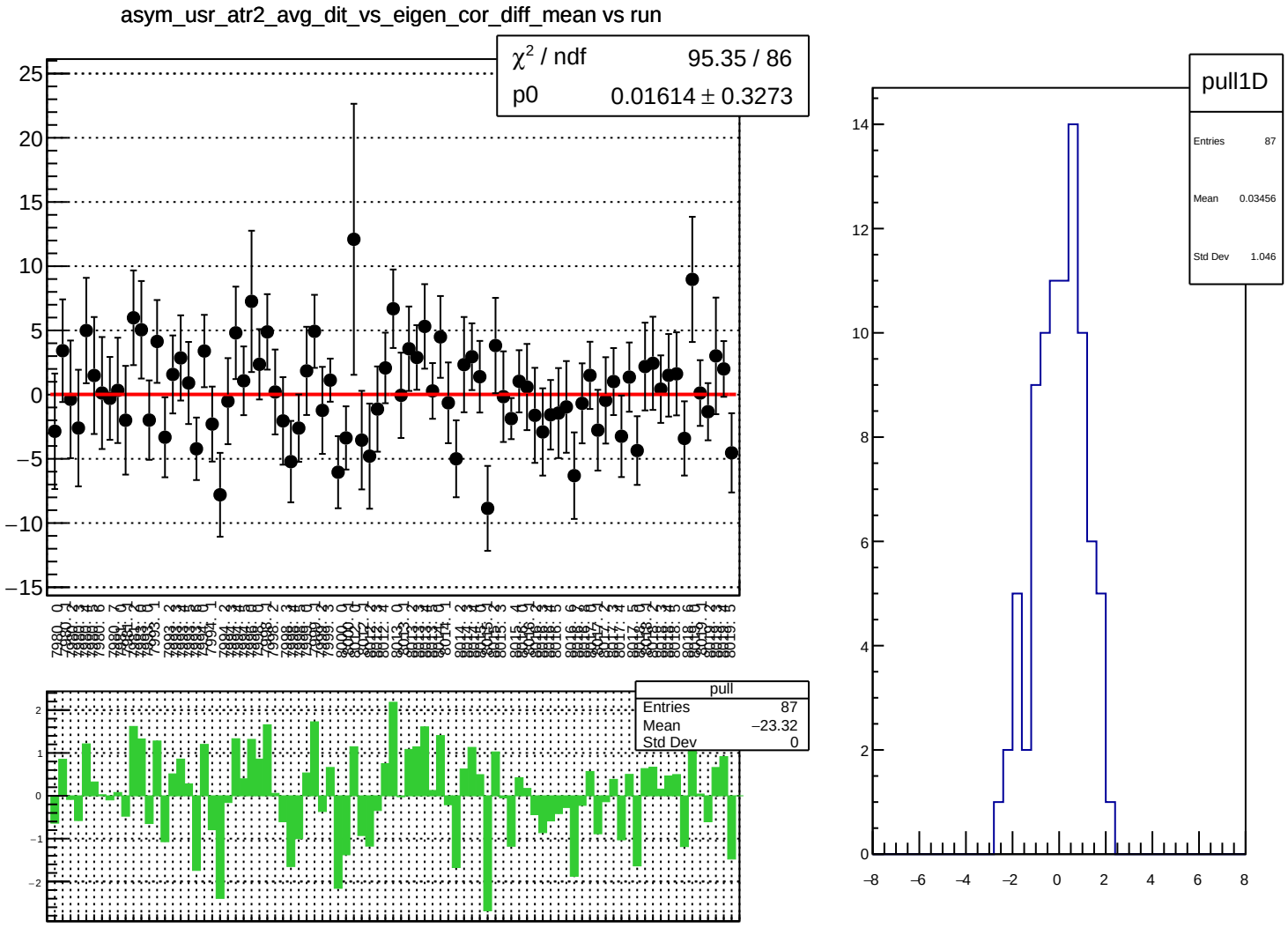

pull1D
Entries 87
Mean −0.1308
Std Dev 0.9866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

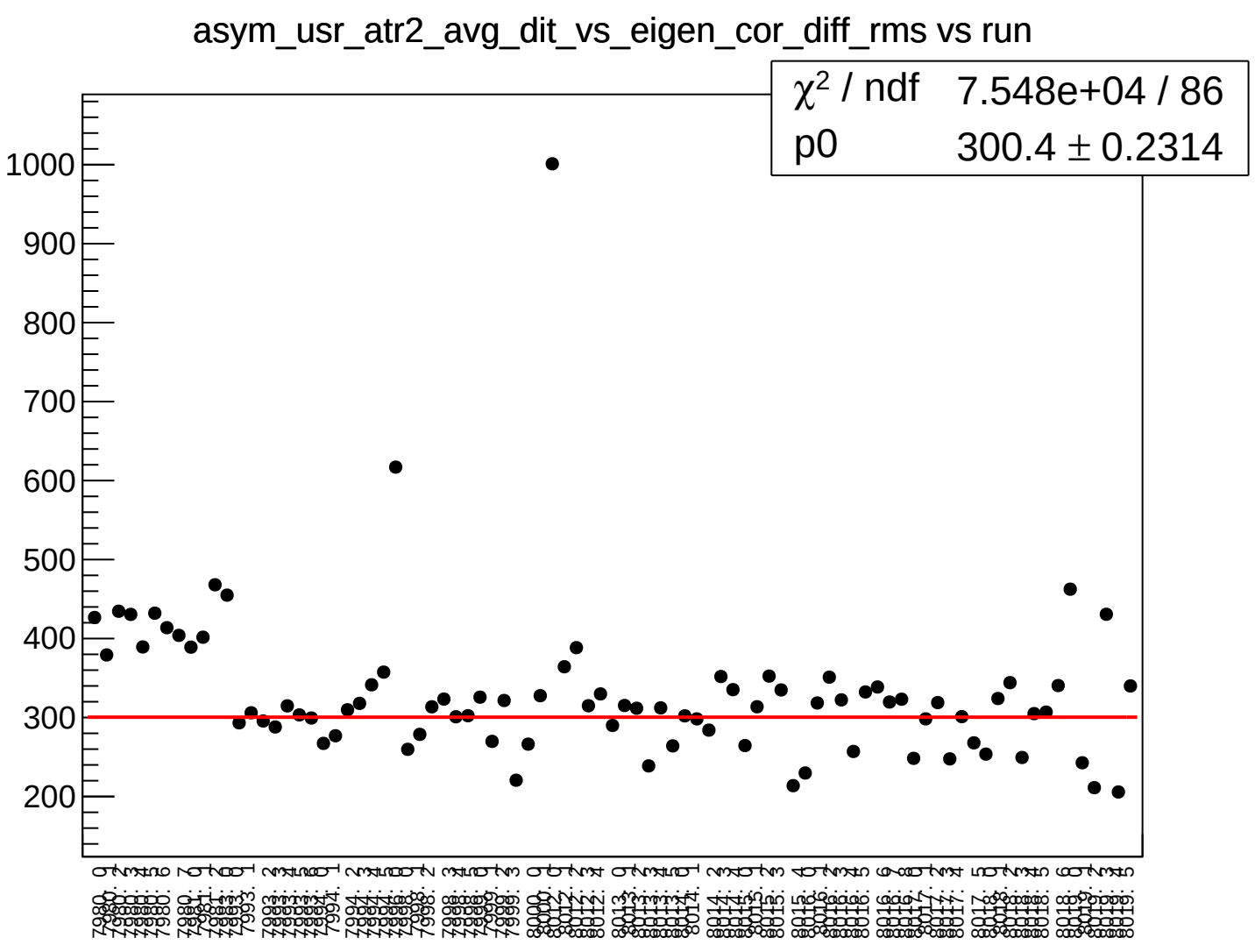

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.486e+06 / 86
p0 2.565e−10 ± 4.891e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

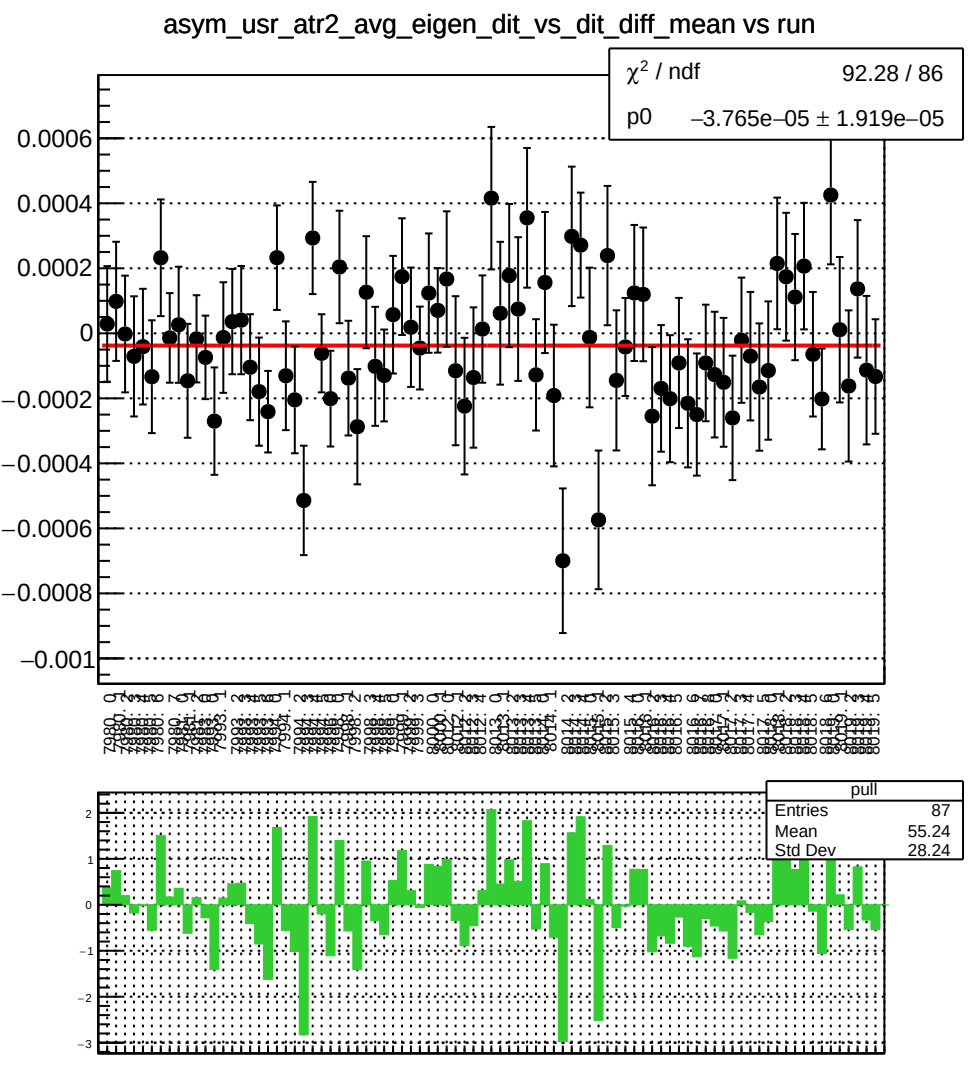

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.35 / 86
p0 0.01614 ± 0.3273
pull
Entries 87
Mean −23.32
Std Dev 0

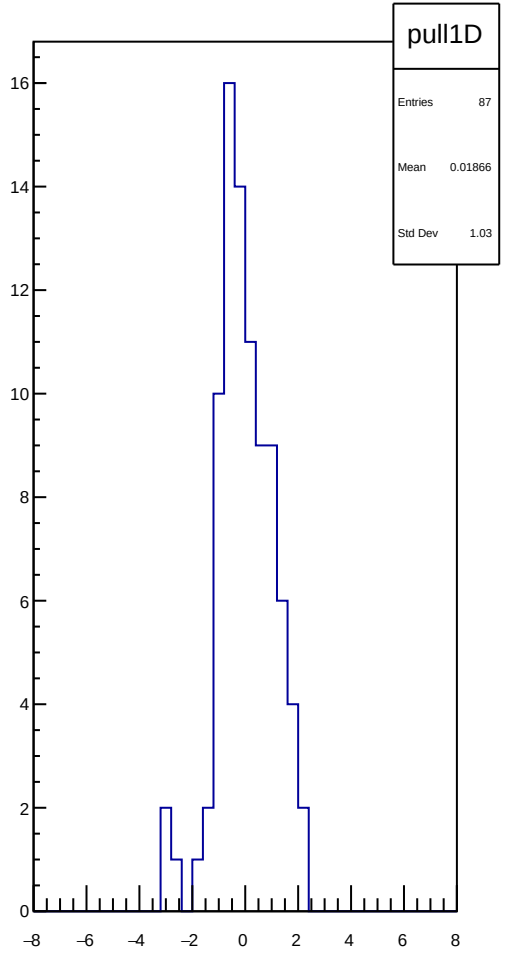

pull1D
Entries 87
Mean 0.03456
Std Dev 1.046

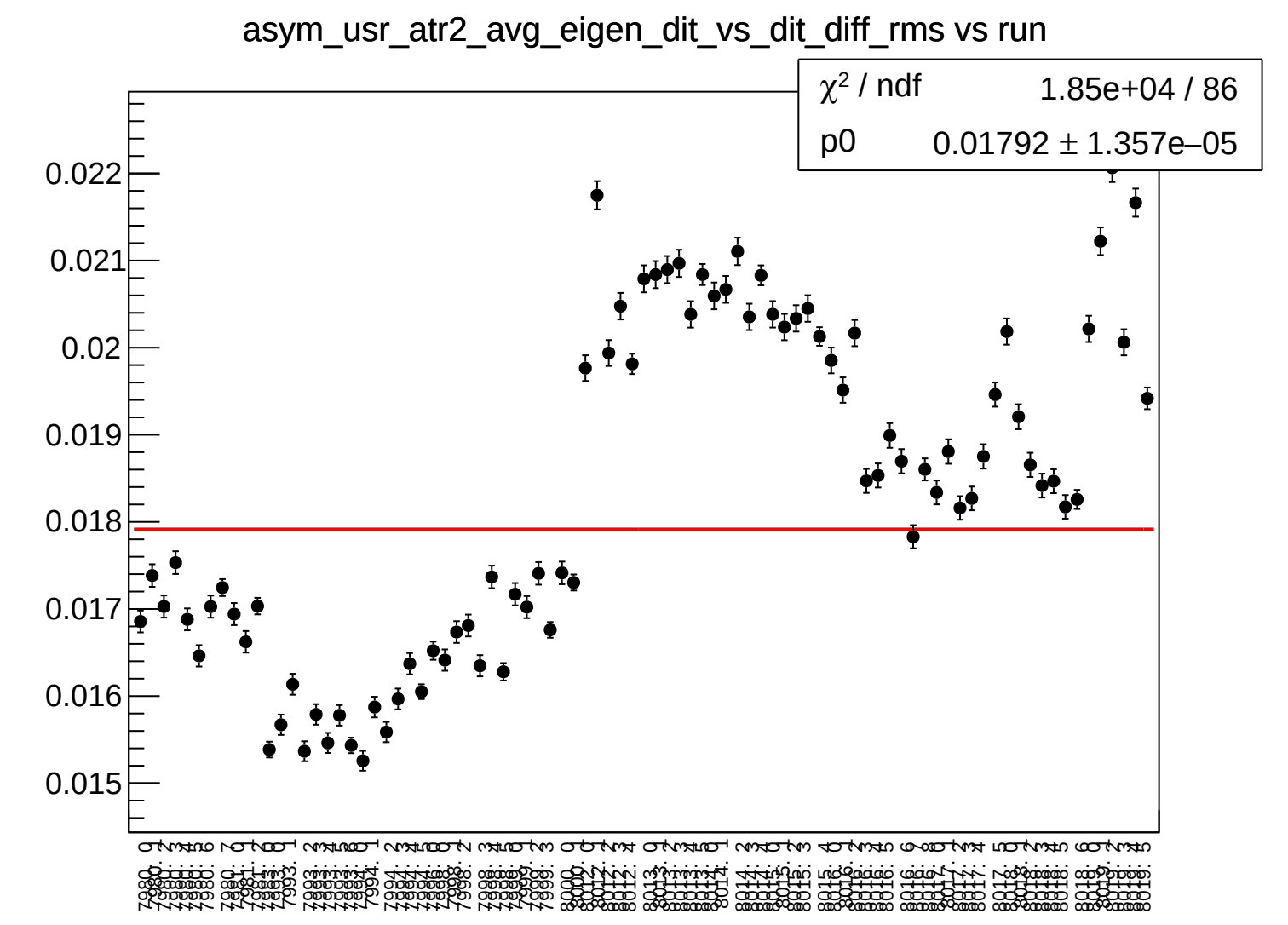

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.548e+04 / 86
p0 300.4 ± 0.2314
1000
900
800
700
600
500
400
300
200

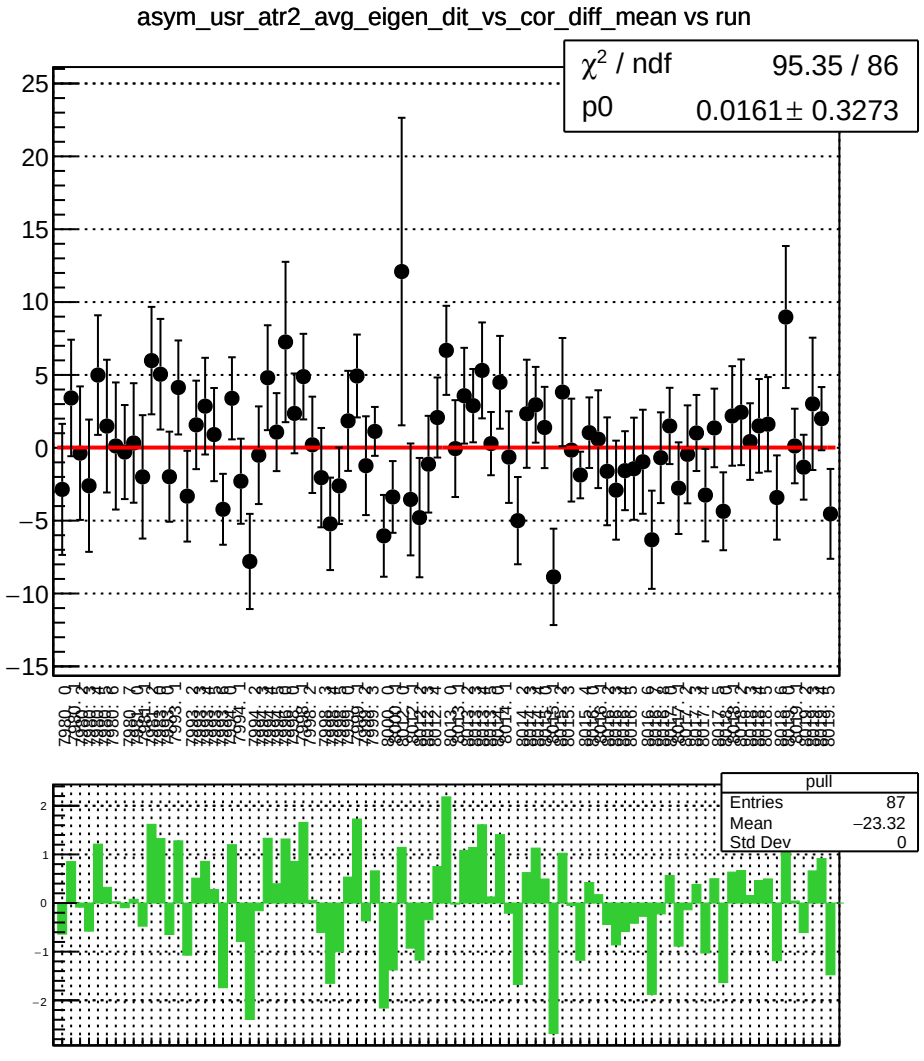

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.35 / 86
p0 0.01614 ± 0.3273
pull
Entries 87
Mean −23.32
Std Dev 0
pull1D
Entries 87
Mean 0.03456
Std Dev 1.046

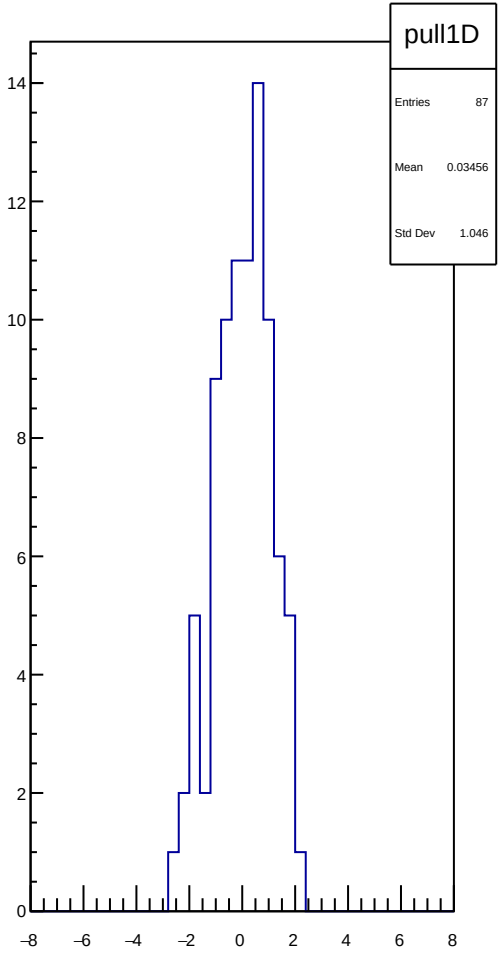

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.548e+04 / 86
p0 300.4 ± 0.2314
1000
900
800
700
600
500
400
300
200

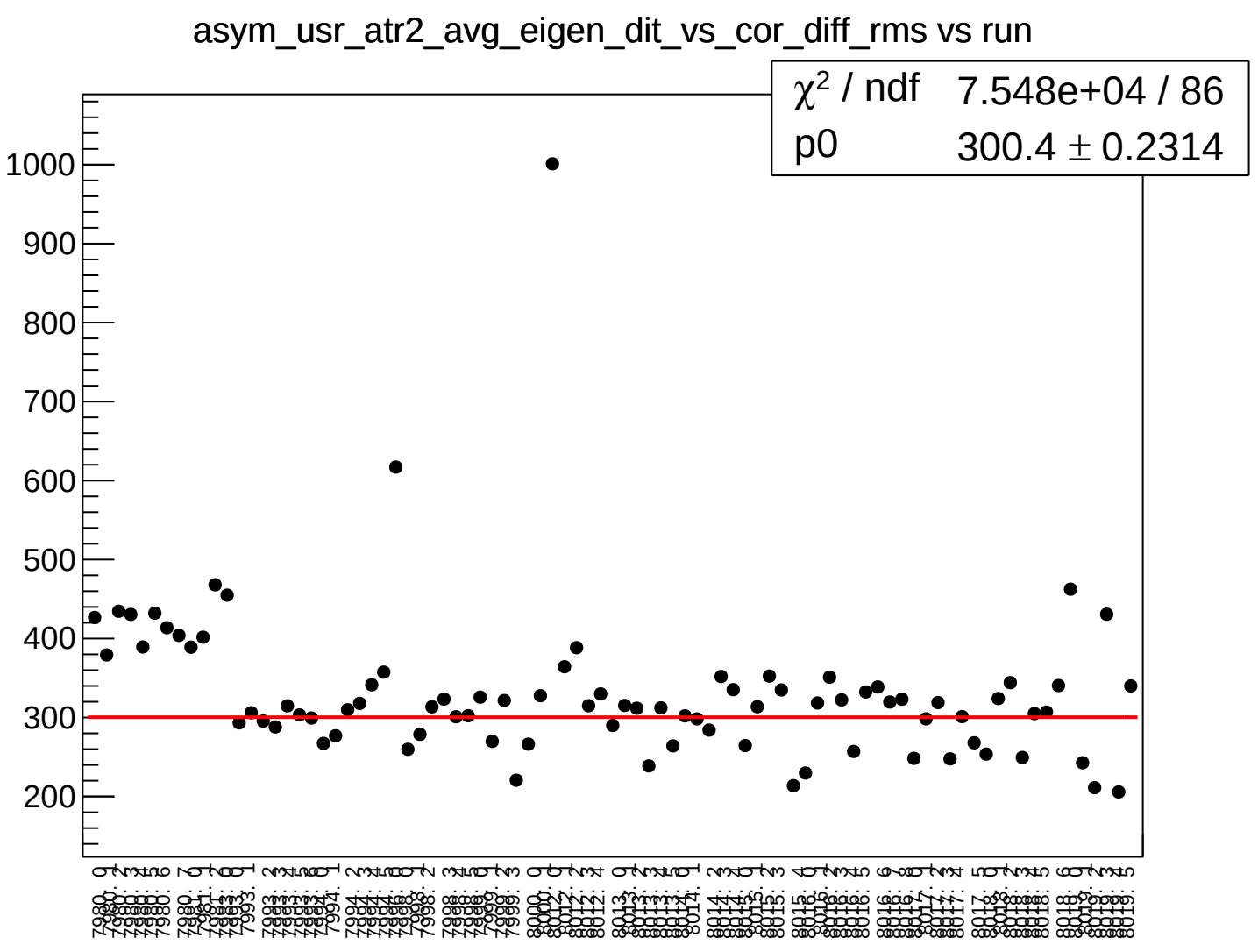

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 92.28 / 86
p0 −3.765e−05 ± 1.919e−05
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 87
Mean 55.24
Std Dev 28.24
2
1
0
−1
−2
−3

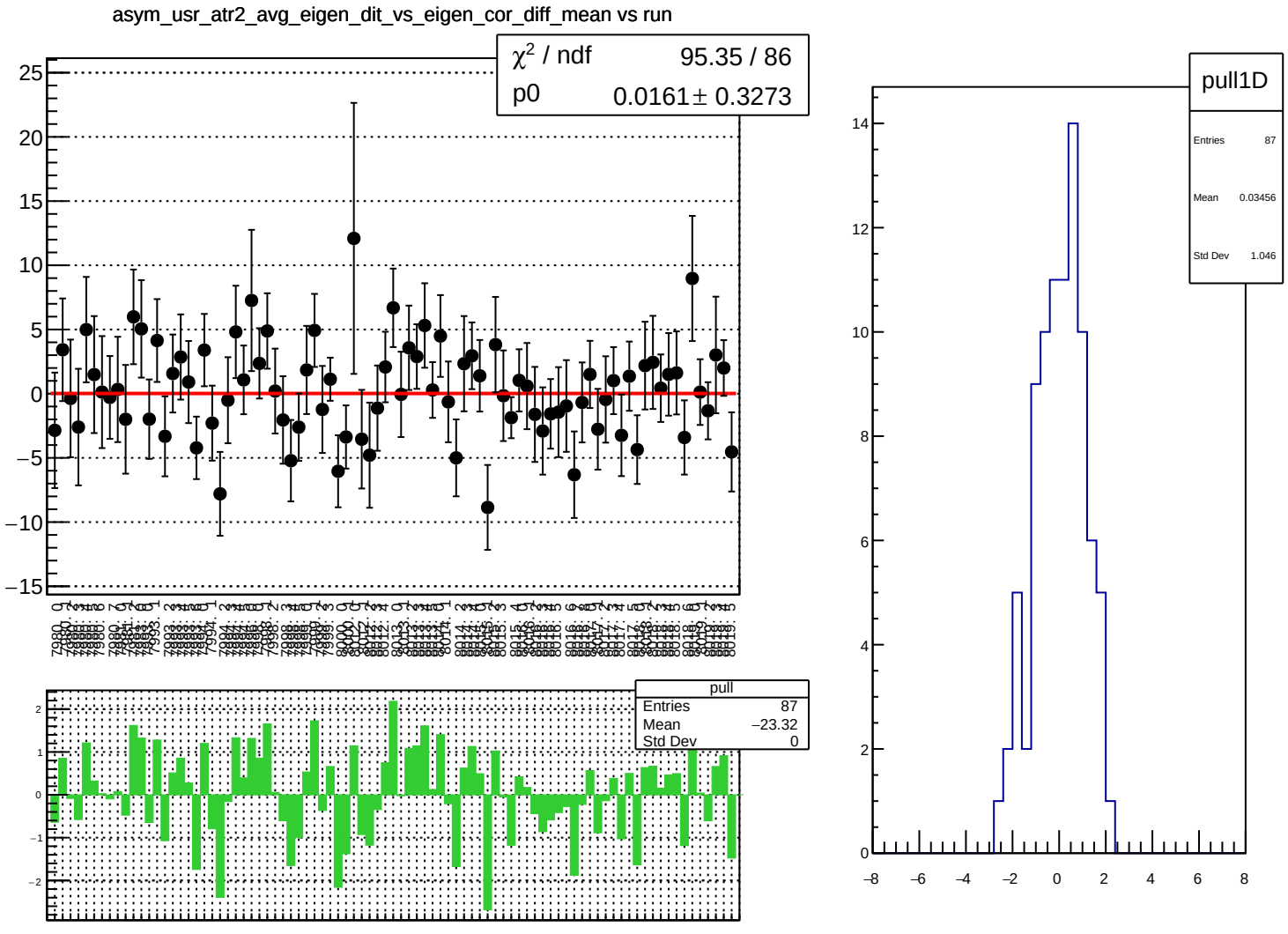

pull1D
Entries 87
Mean 0.01866
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

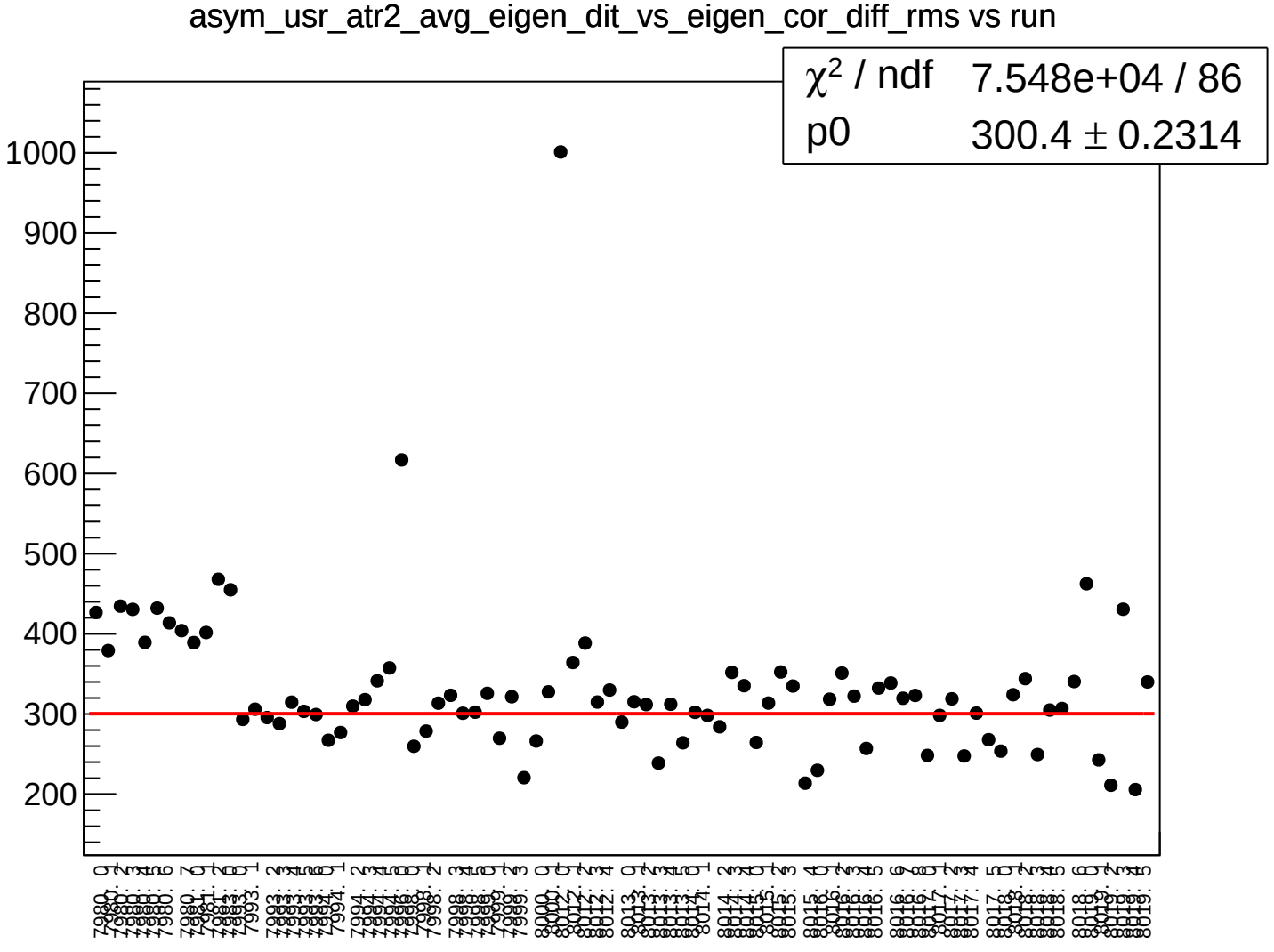

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.85e+04 / 86
p0 0.01792 ± 1.357e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015

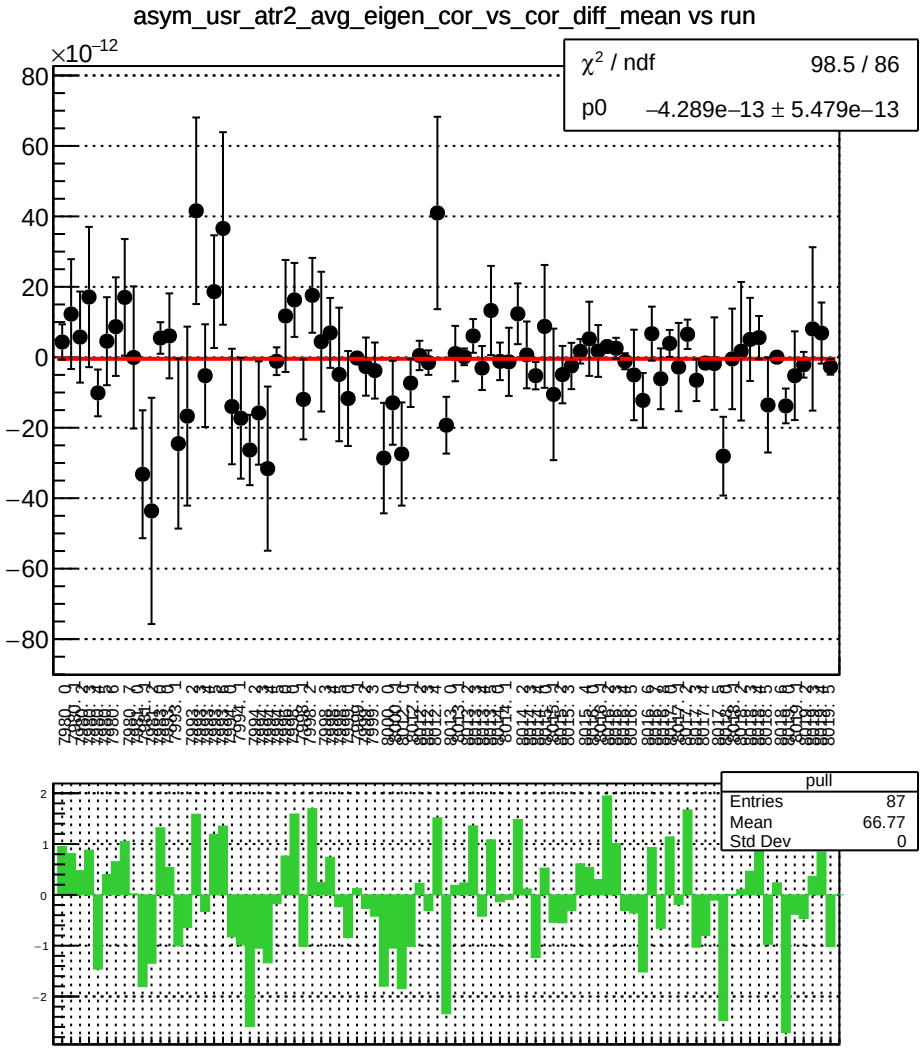

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.35 / 86
p0 0.0161 ± 0.3273
pull
Entries 87
Mean −23.32
Std Dev 0

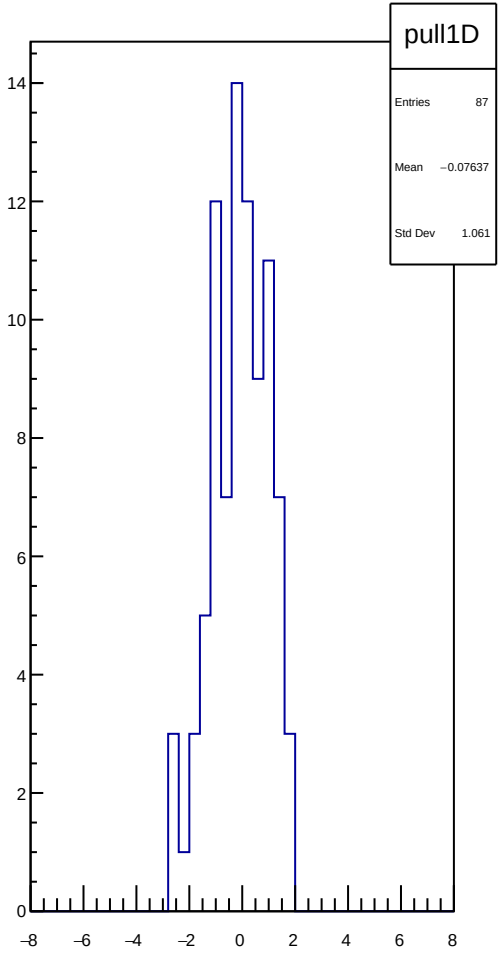

pull1D
Entries 87
Mean 0.03456
Std Dev 1.046

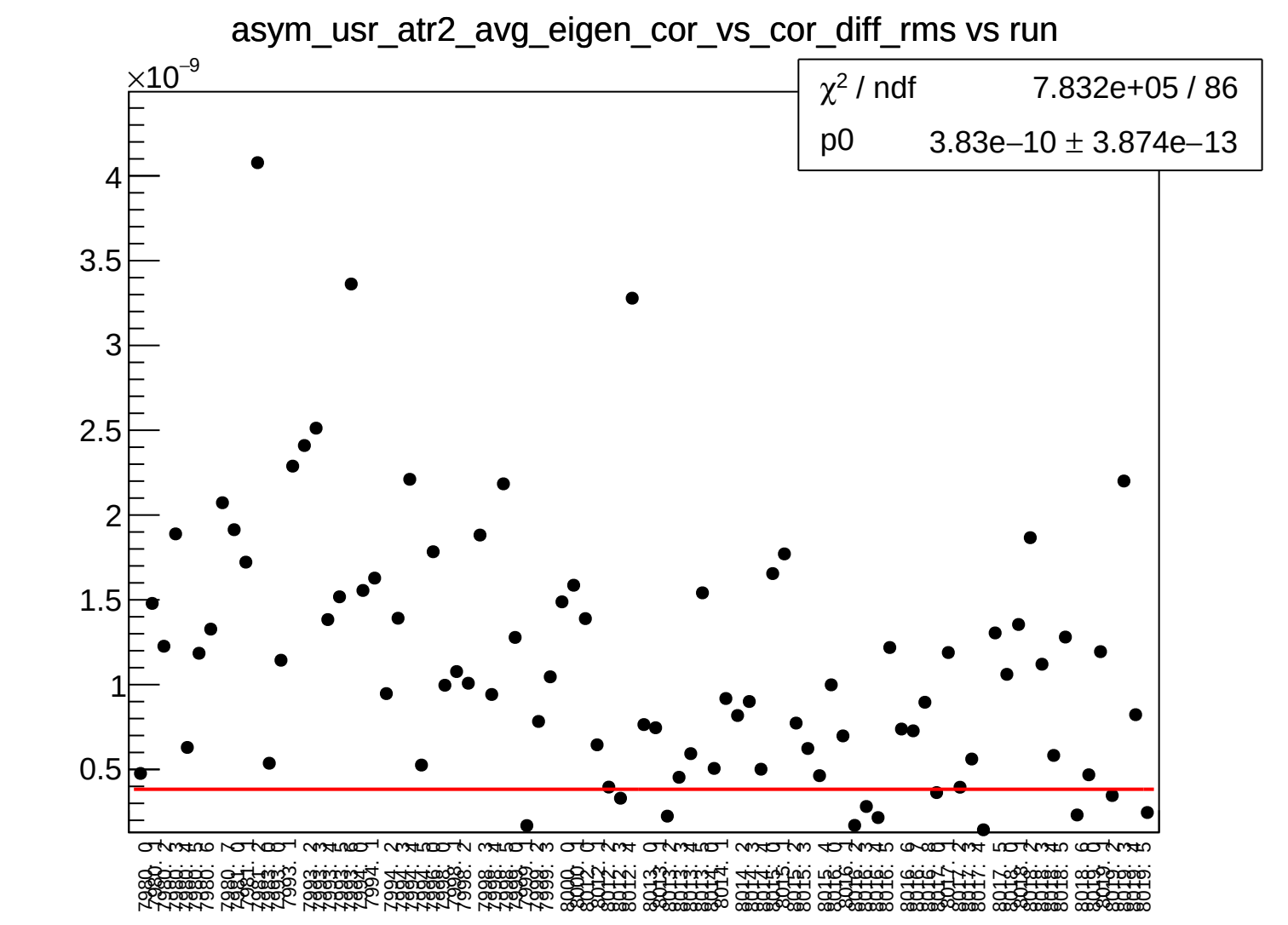

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.548e+04 / 86
p0 300.4 ± 0.2314
1000
900
800
700
600
500
400
300
200

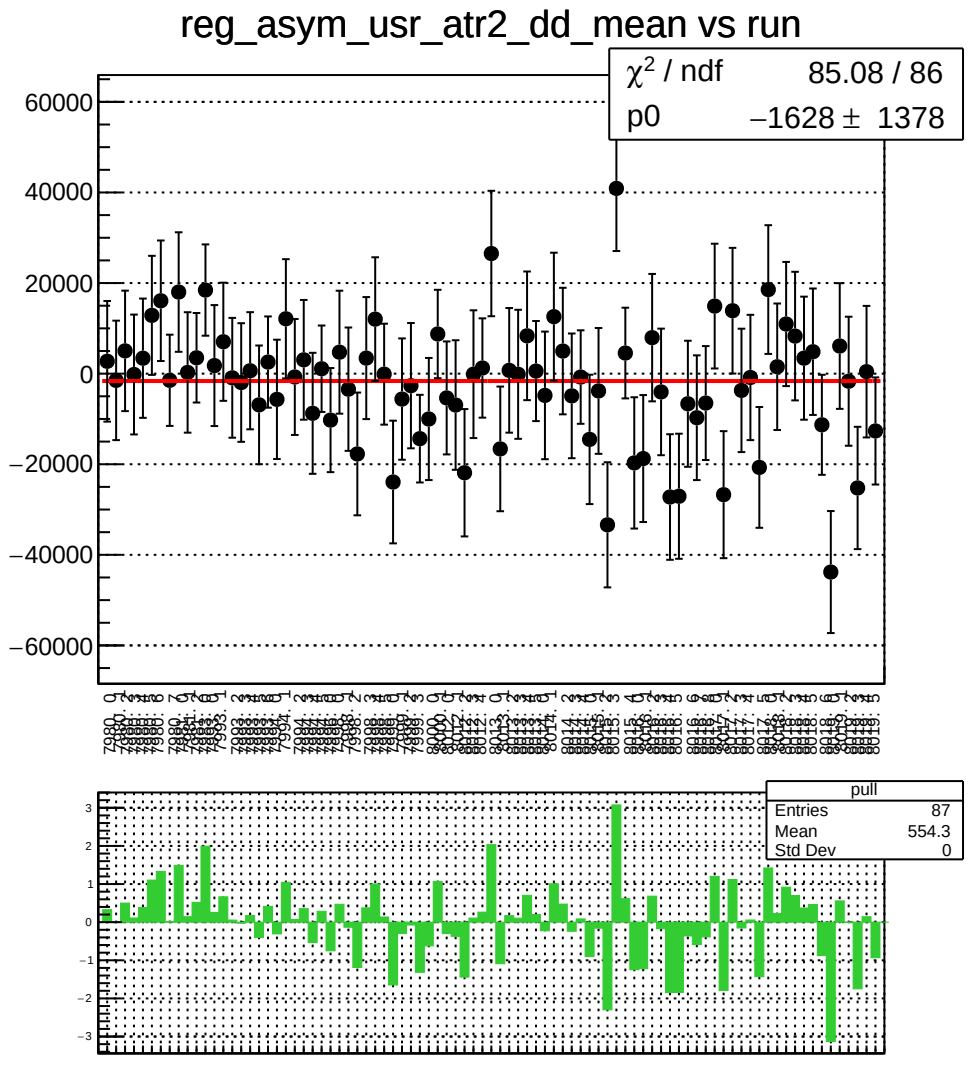

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.35 / 86
p0 0.0161 ± 0.3273
pull
Entries 87
Mean −23.32
Std Dev 0
pull1D
Entries 87
Mean 0.03456
Std Dev 1.046

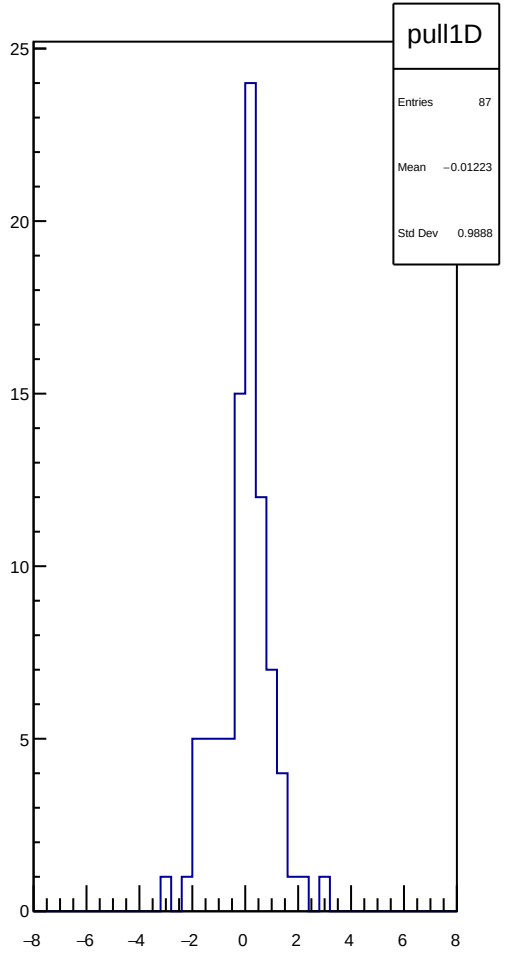

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.548e+04 / 86
p0 300.4 ± 0.2314
1000
900
800
700
600
500
400
300
200

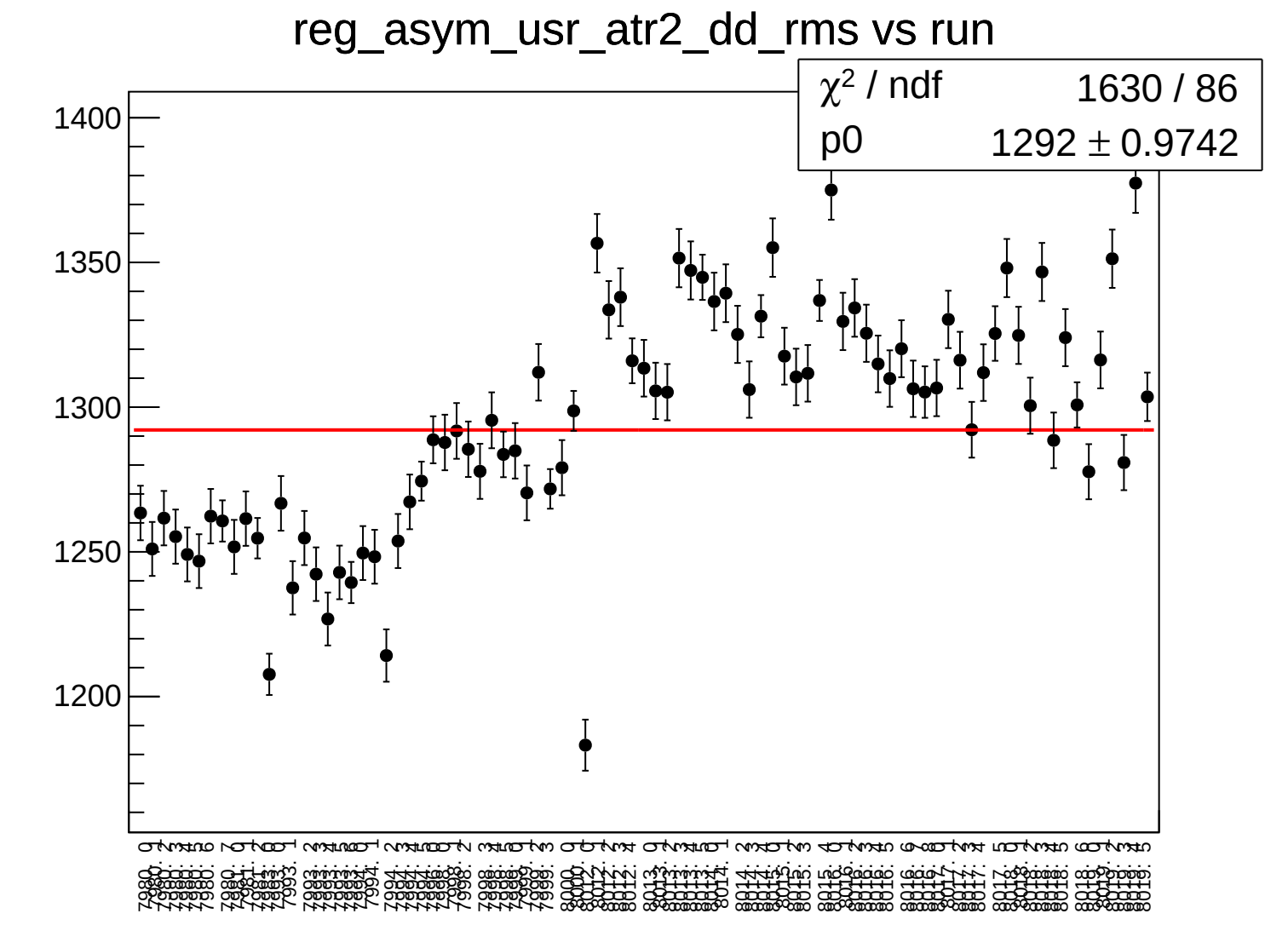

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.5 / 86
p0 −4.289e−13 ± 5.479e−13
pull
Entries 87
Mean 66.77
Std Dev 0

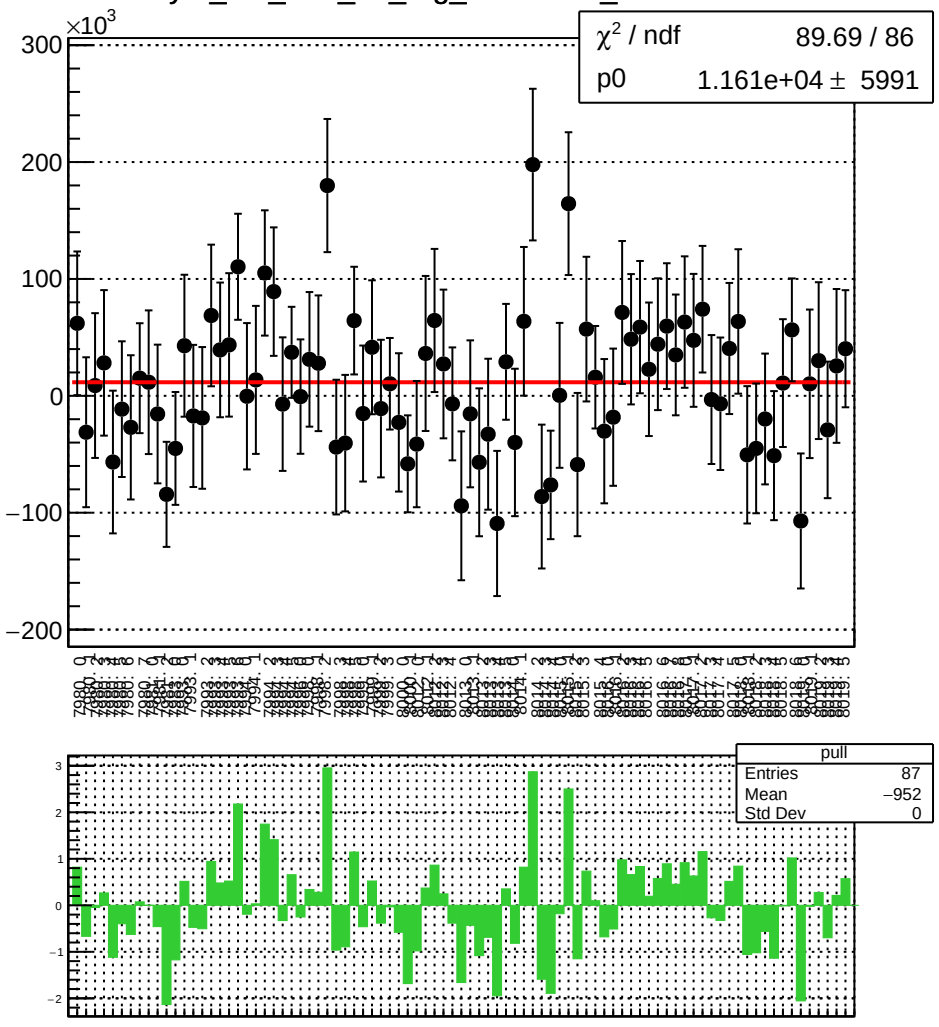

pull1D
Entries 87
Mean −0.07637
Std Dev 1.061

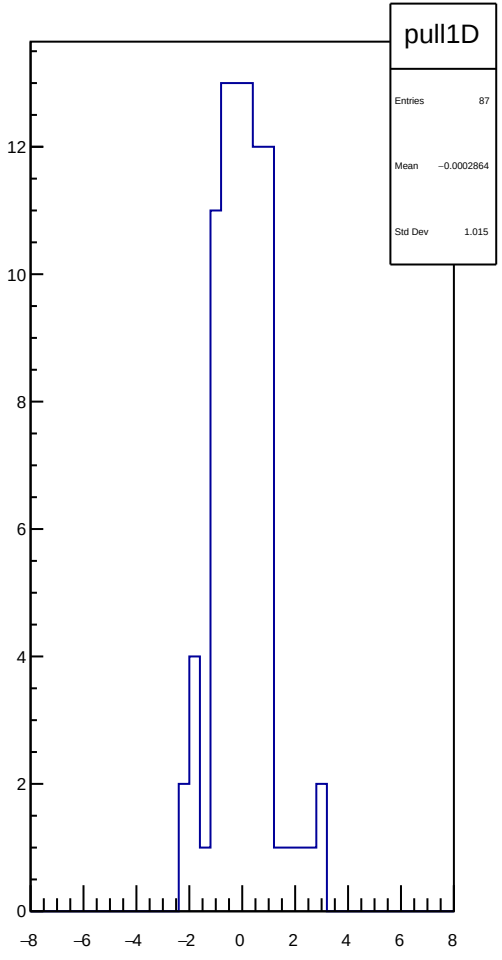

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.832e+05 / 86
p0 3.83e−10 ± 3.874e−13
4
3.5
3
2.5
2
1.5
1
0.5

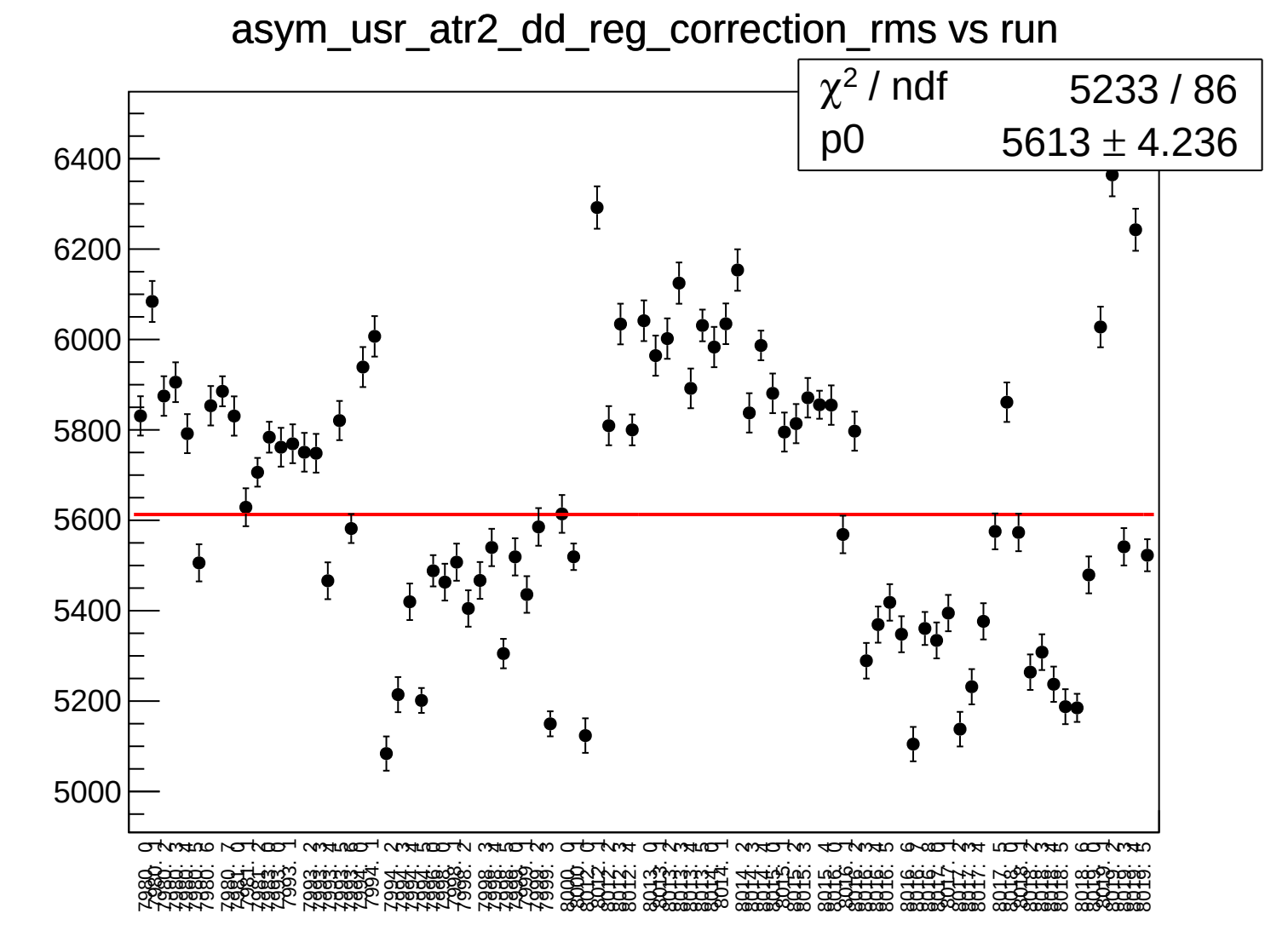

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 85.08 / 86
p0 −1628 ± 1378
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 554.3
Std Dev 0
3
2
1
0
−1
−2
−3

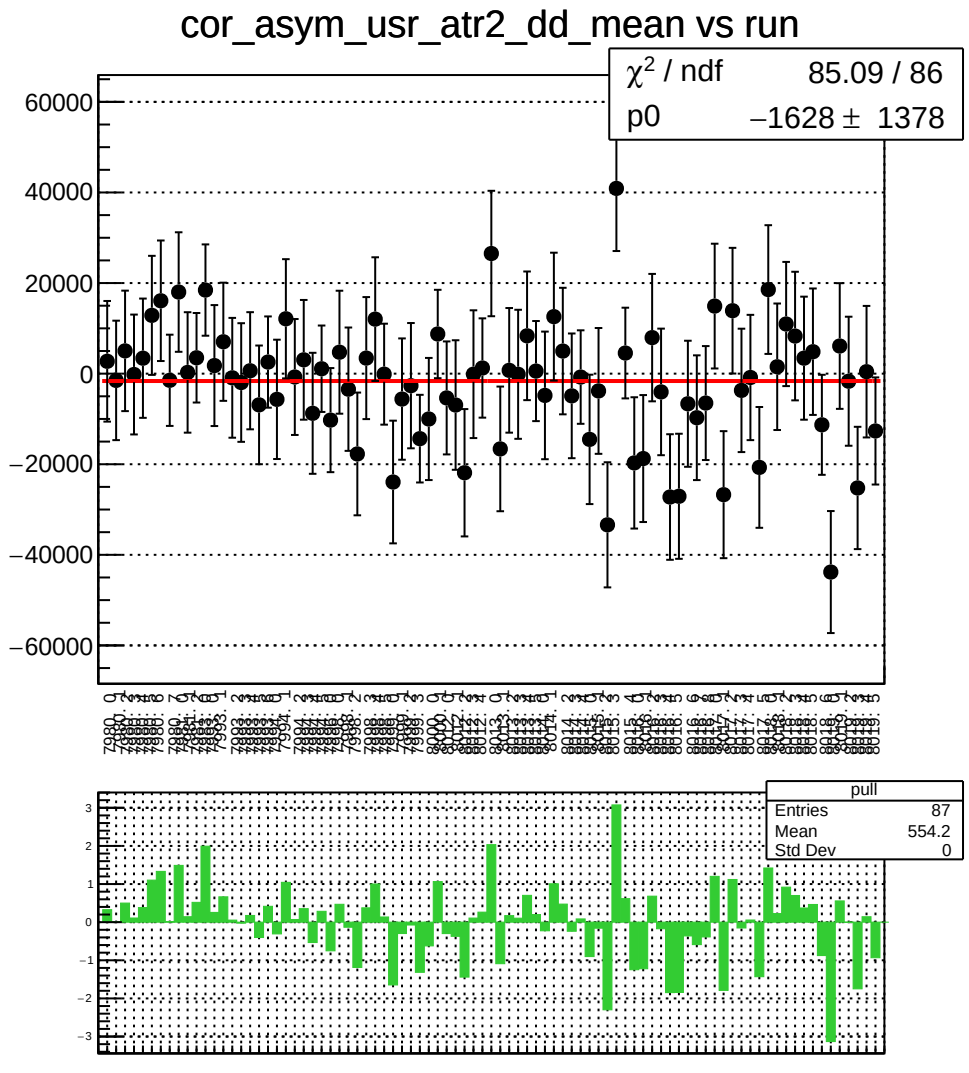

pull1D
Entries 87
Mean −0.01223
Std Dev 0.9888
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

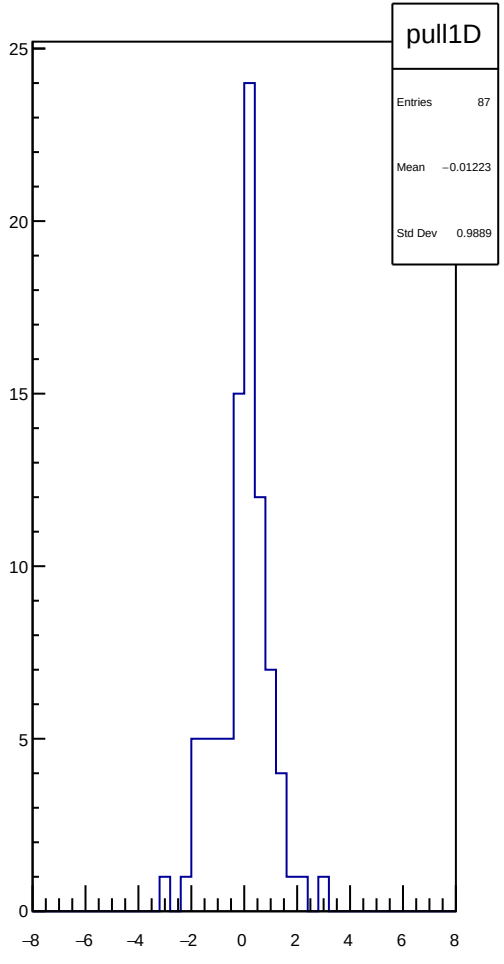

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 1630 / 86
p0 1292 ± 0.9742
1400
1350
1300
1250
1200

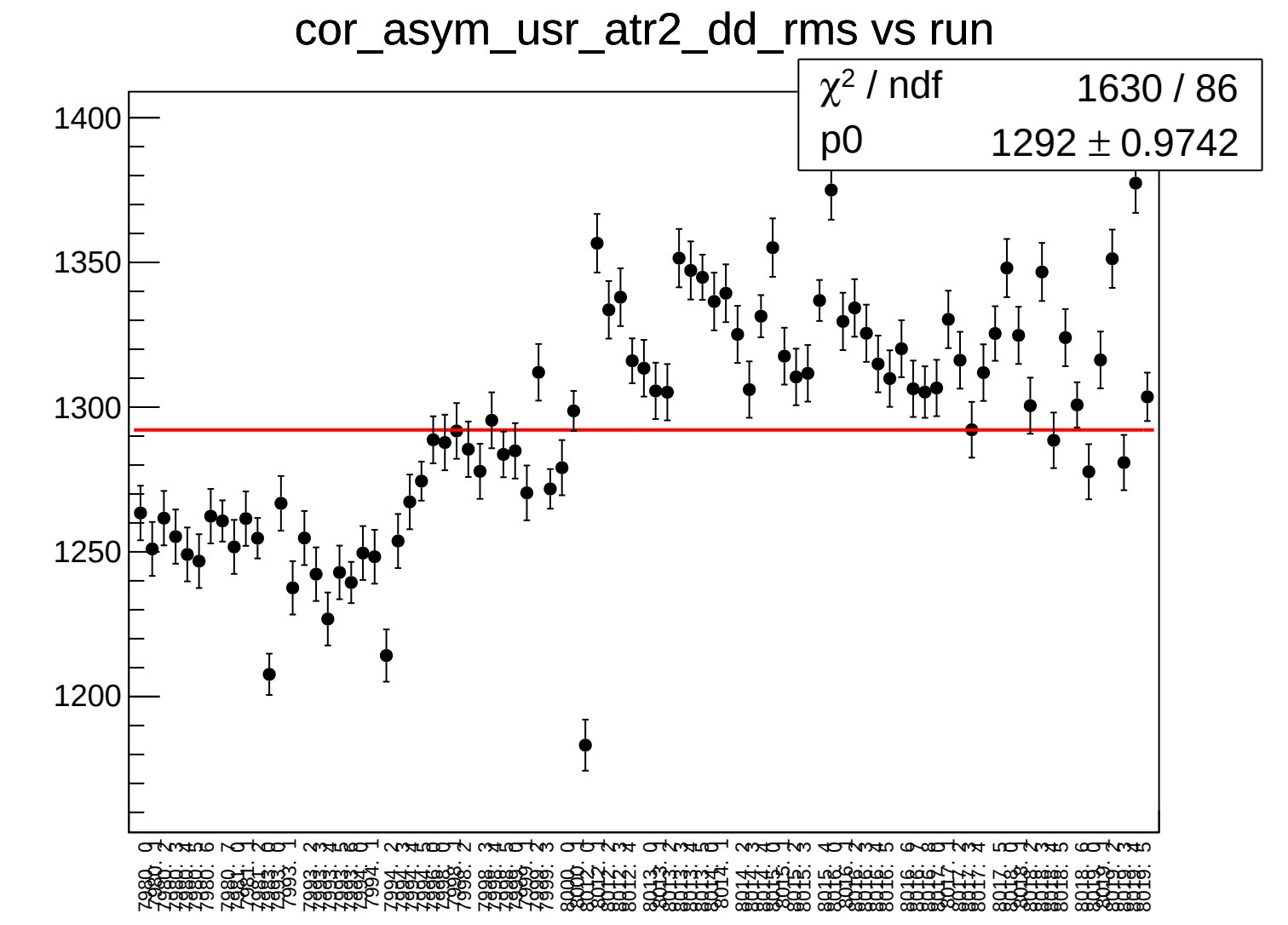

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89.69 / 86
p0 1.161e+04 ± 5991
pull
Entries 87
Mean −952
Std Dev 0

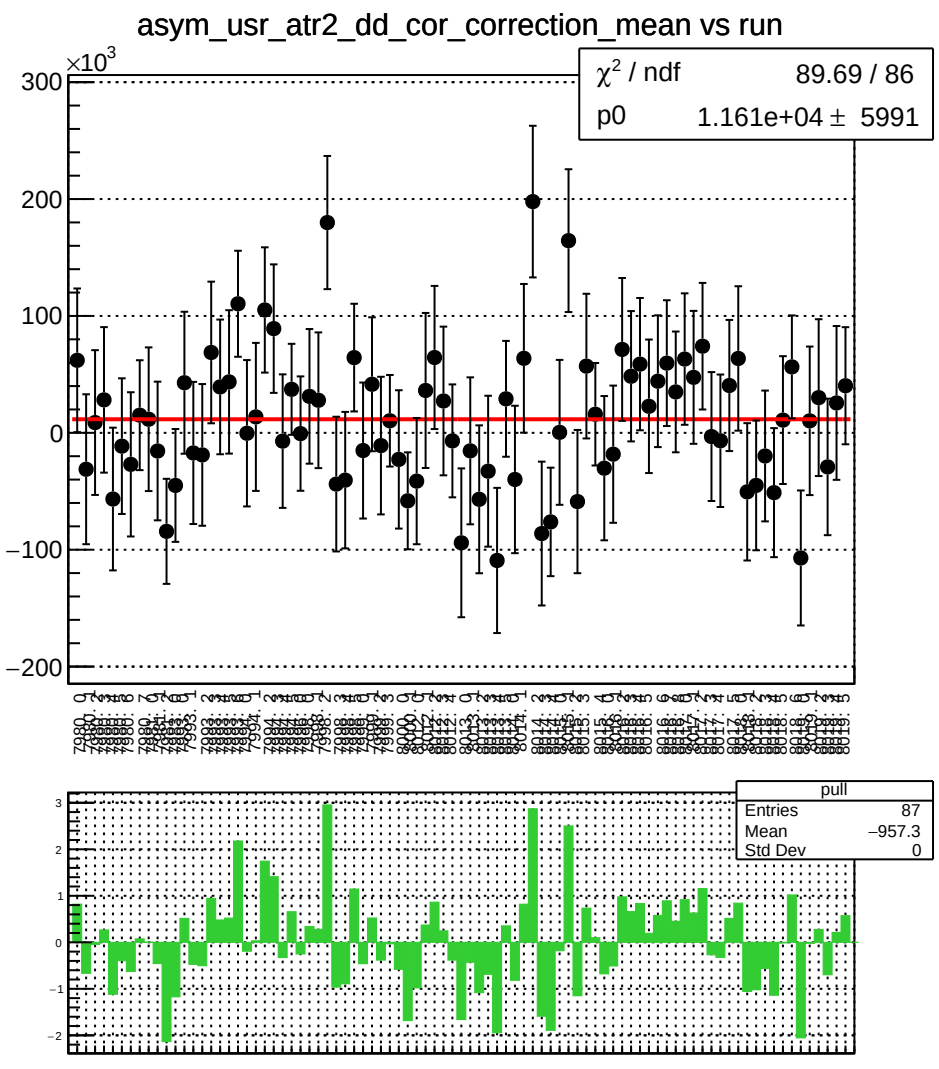

pull1D
Entries 87
Mean −0.0002864
Std Dev 1.015

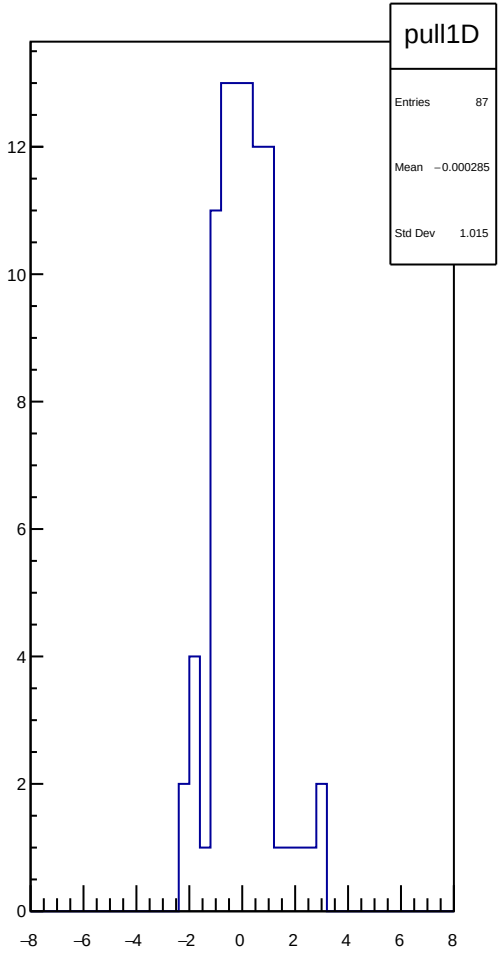

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 5233 / 86
p0 5613 ± 4.236
6400
6200
6000
5800
5600
5400
5200
5000

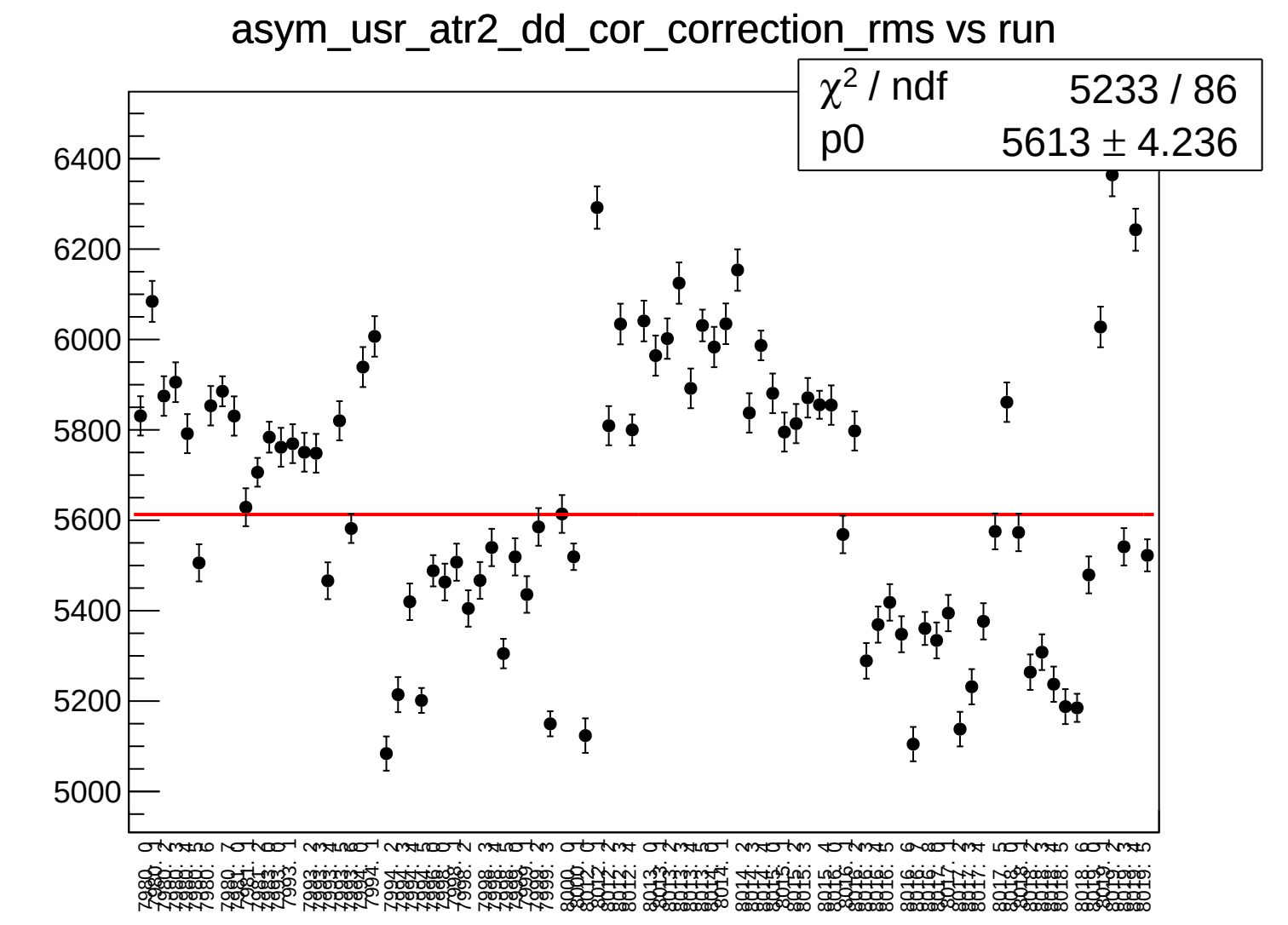

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 85.09 / 86
p0 −1628 ± 1378
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 554.2
Std Dev 0
3
2
1
0
−1
−2
−3

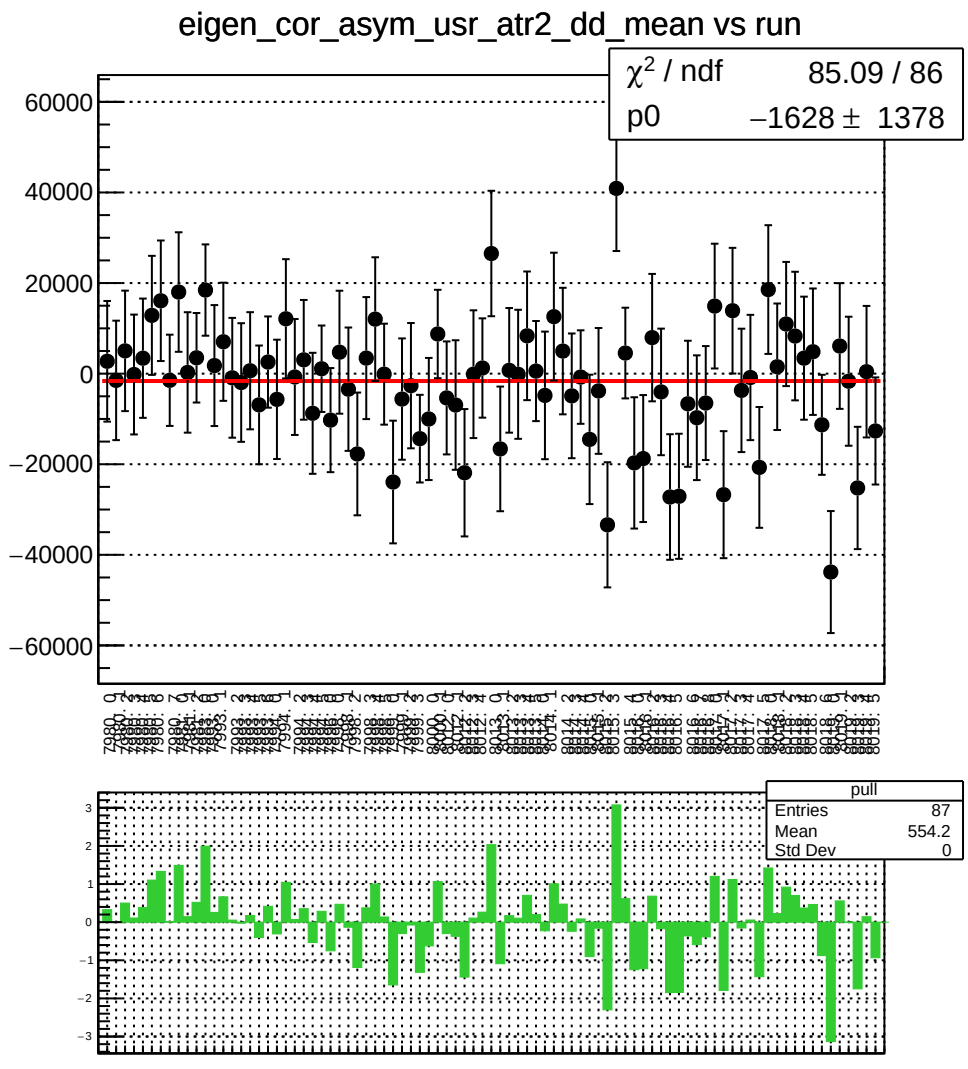

pull1D
Entries 87
Mean −0.01223
Std Dev 0.9889
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

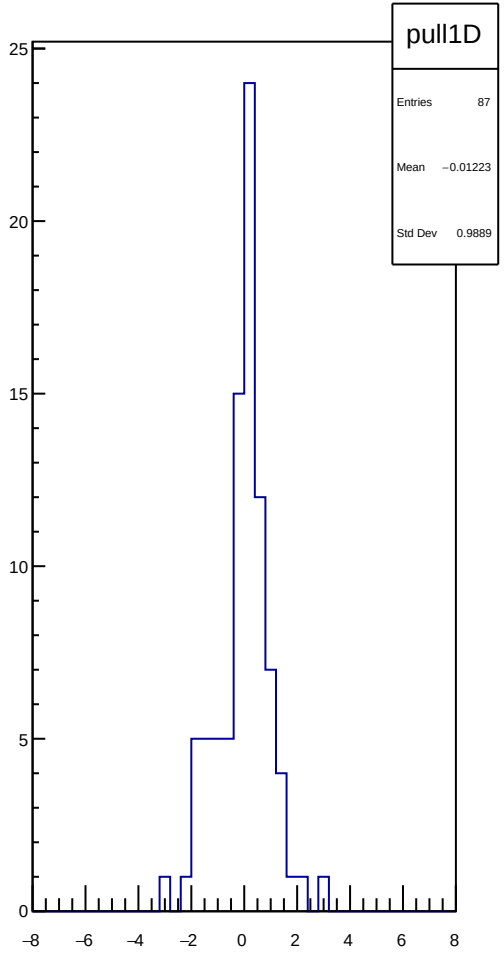

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1630 / 86
p0 1292 ± 0.9742
1400
1350
1300
1250
1200

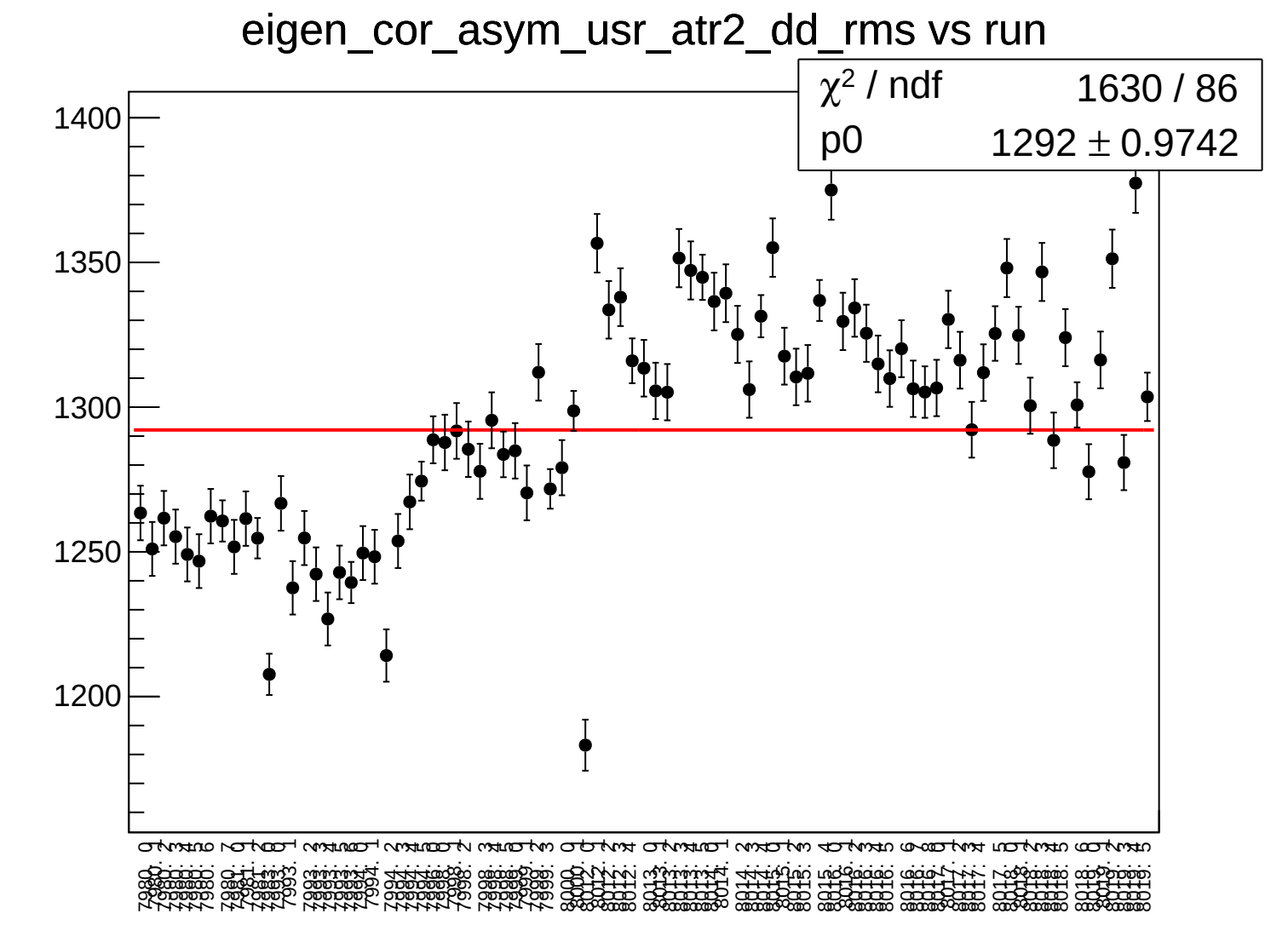

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.69 / 86
p0 1.161e+04 ± 5991
pull
Entries 87
Mean −957.3
Std Dev 0

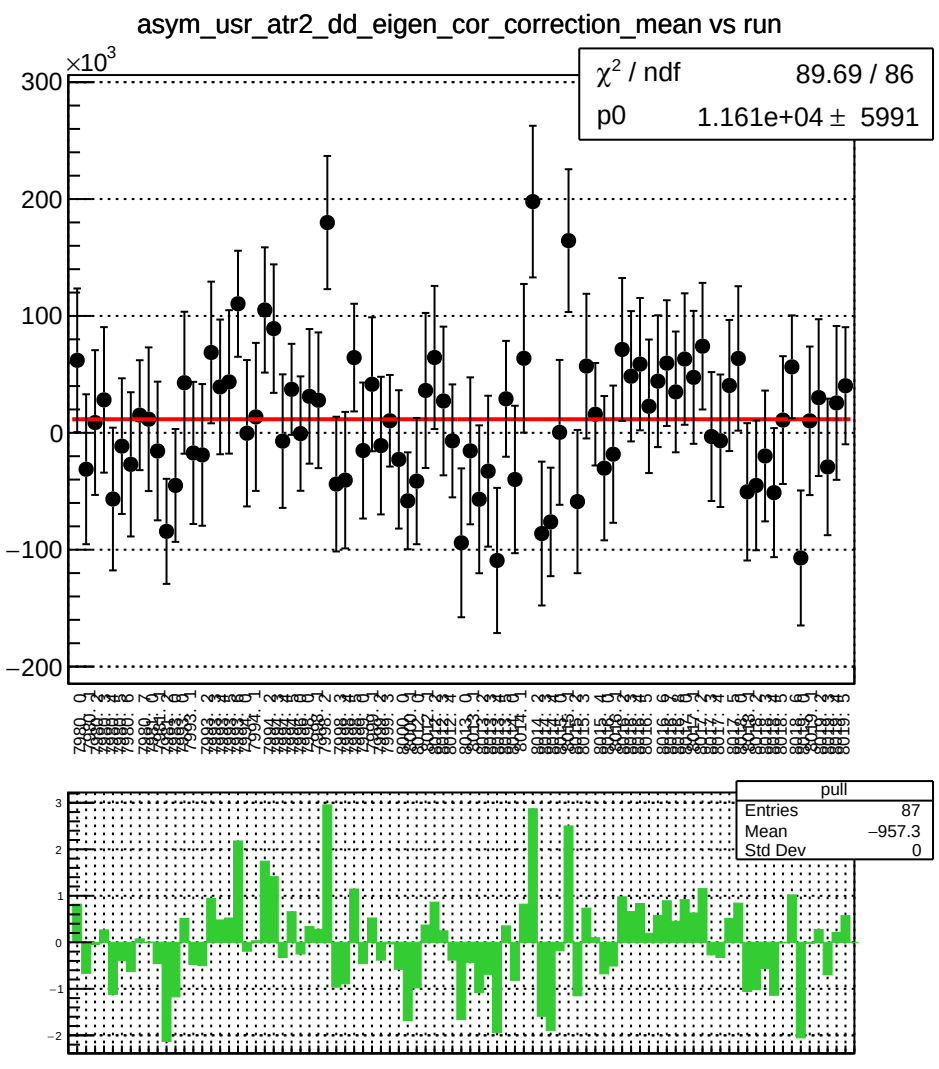

pull1D
Entries 87
Mean −0.000285
Std Dev 1.015

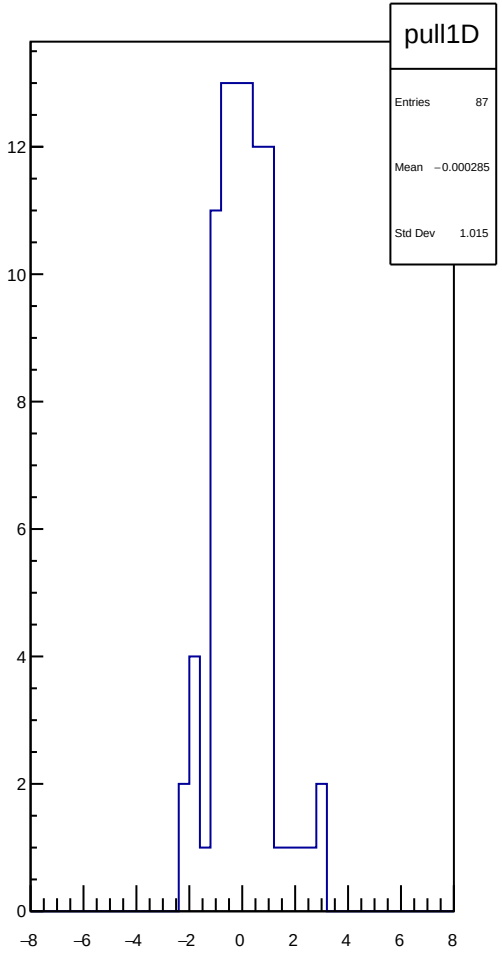

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 5233 / 86
p0 5613 ± 4.236
6400
6200
6000
5800
5600
5400
5200
5000

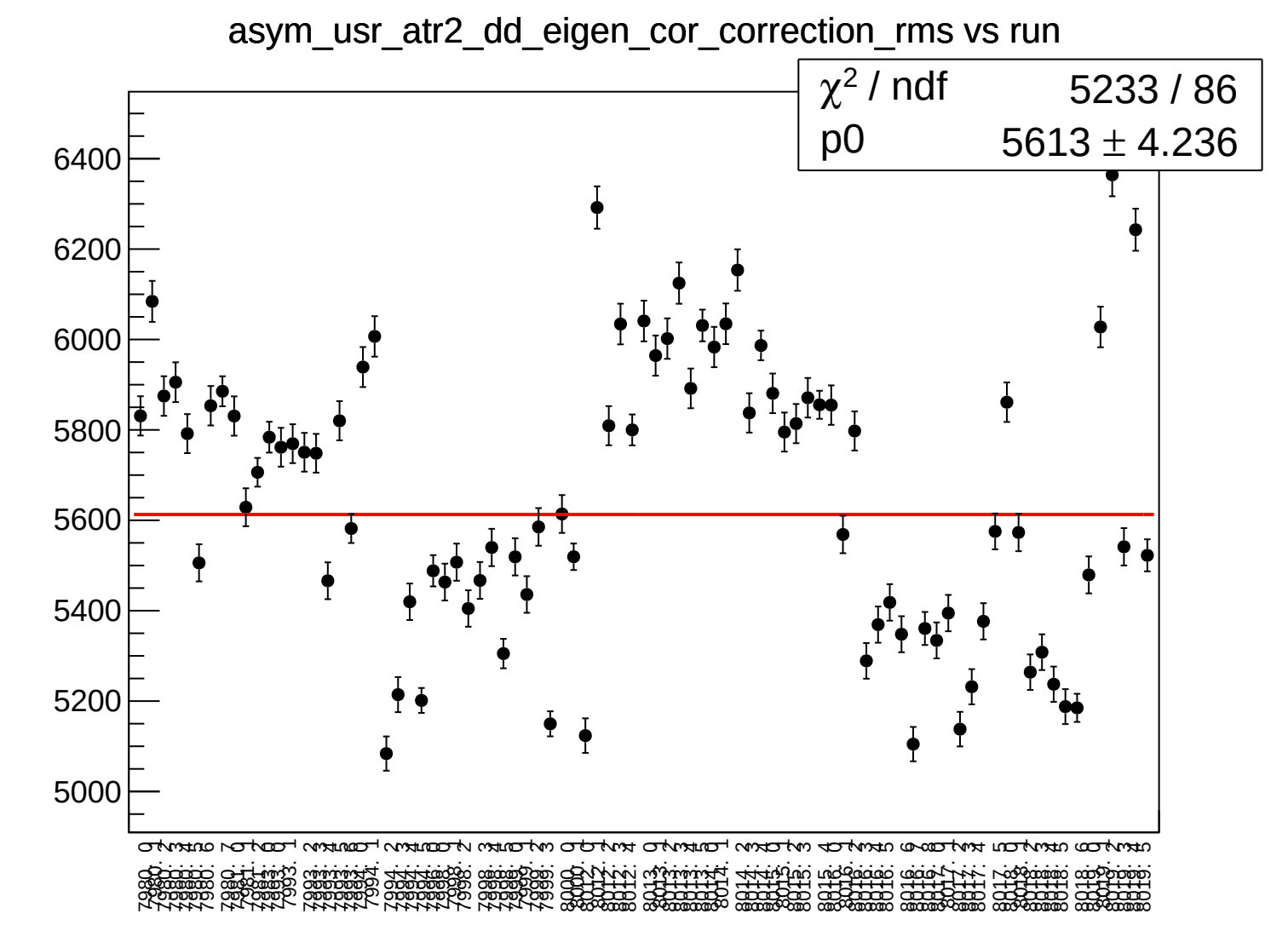

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 85.09 / 86
p0 −1628 ± 1378
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 554.2
Std Dev 0
3
2
1
0
−1
−2
−3

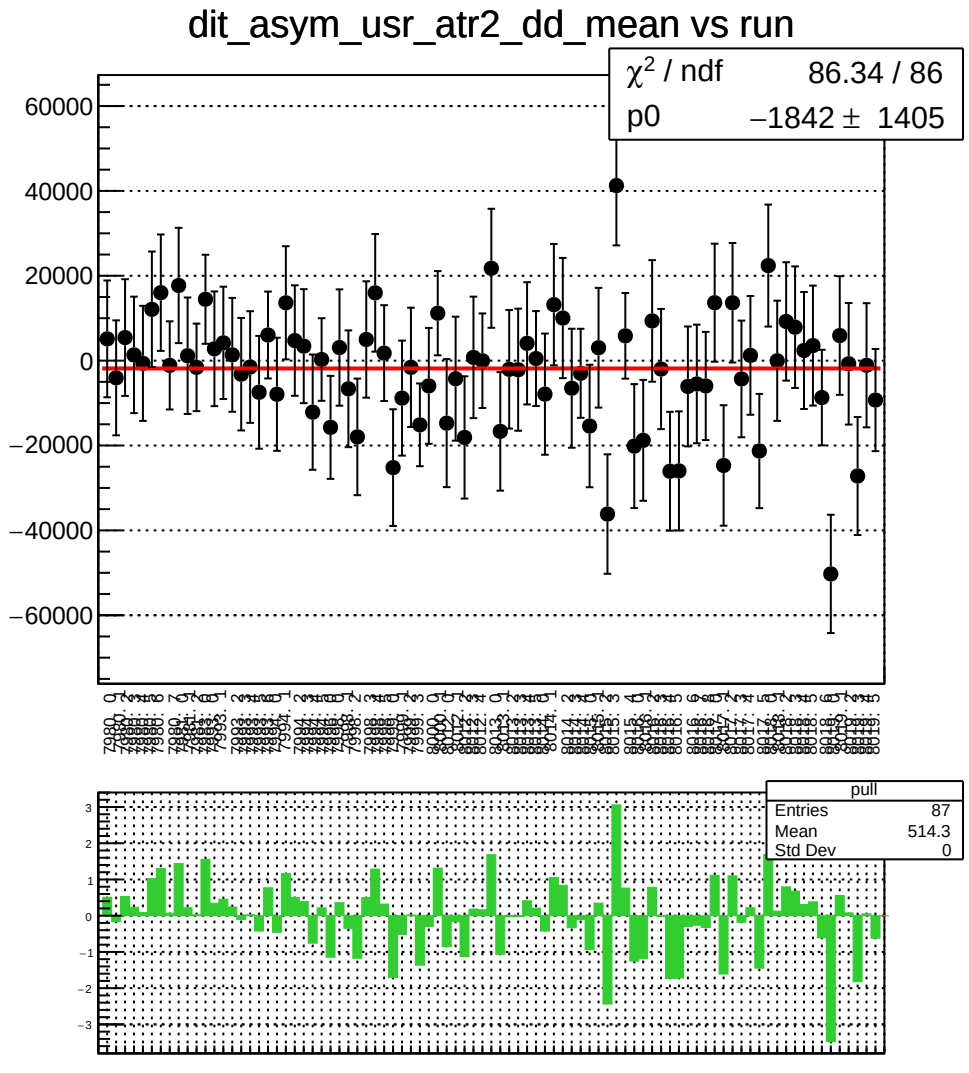

pull1D
Entries 87
Mean −0.01223
Std Dev 0.9889
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

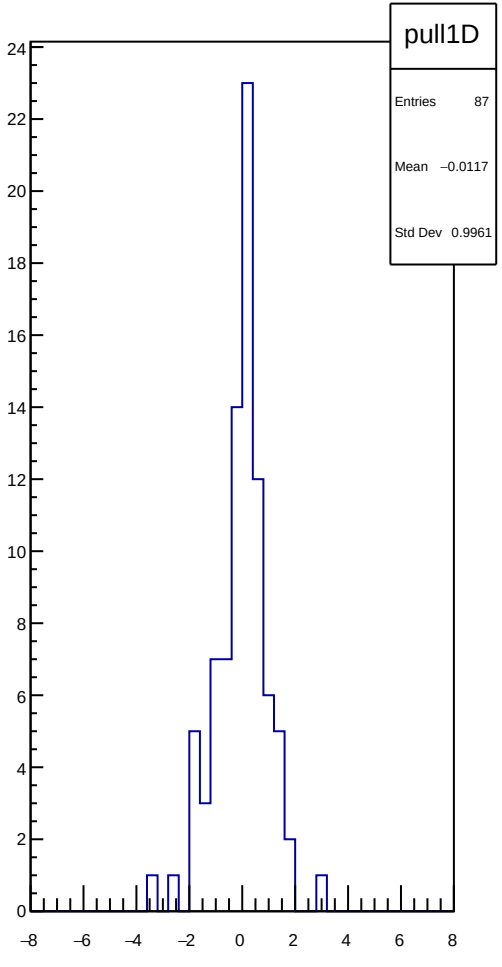

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1630 / 86
p0 1292 ± 0.9742
1400
1350
1300
1250
1200

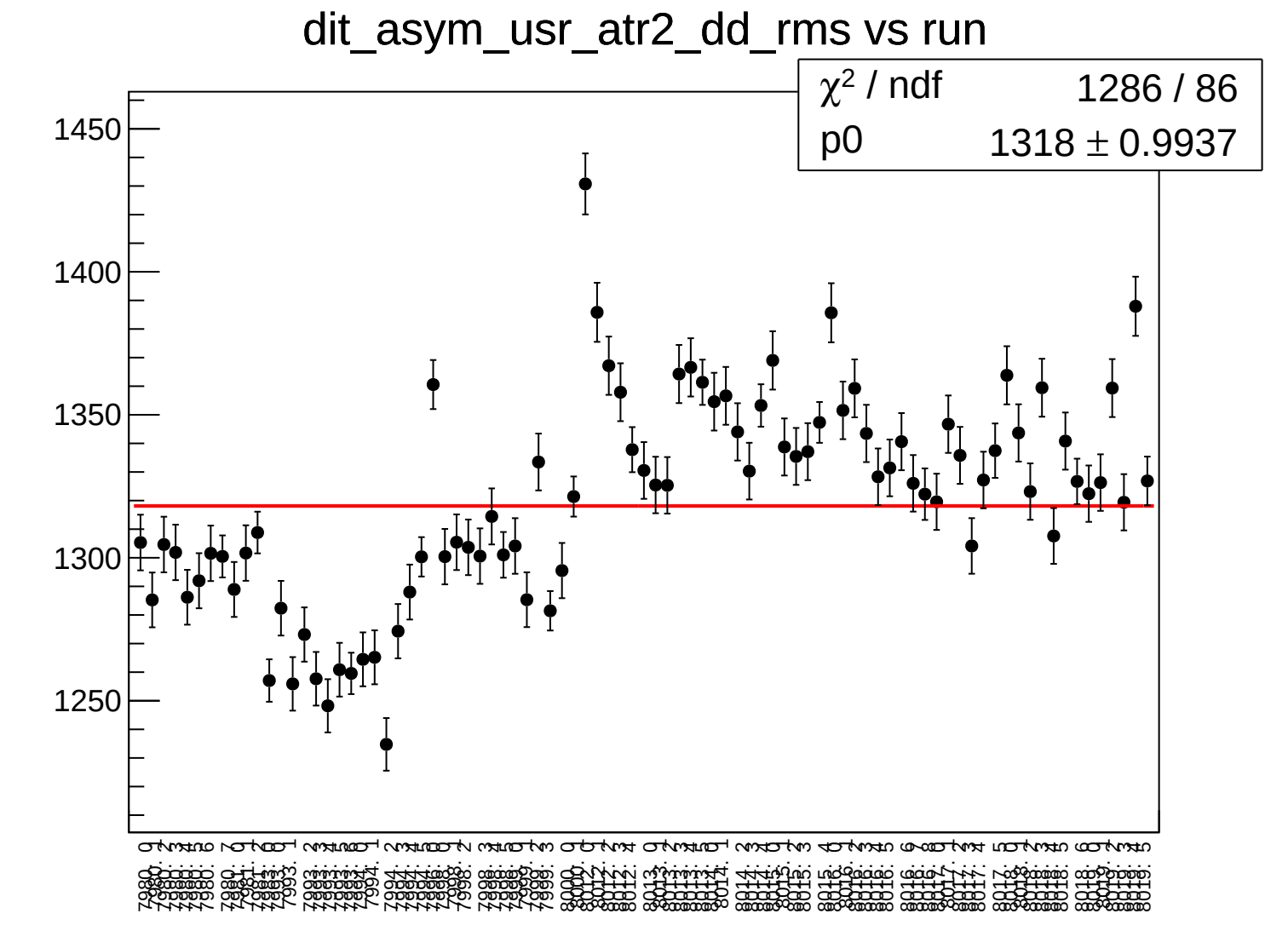

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.69 / 86
p0 1.161e+04 ± 5991
pull
Entries 87
Mean −957.3
Std Dev 0

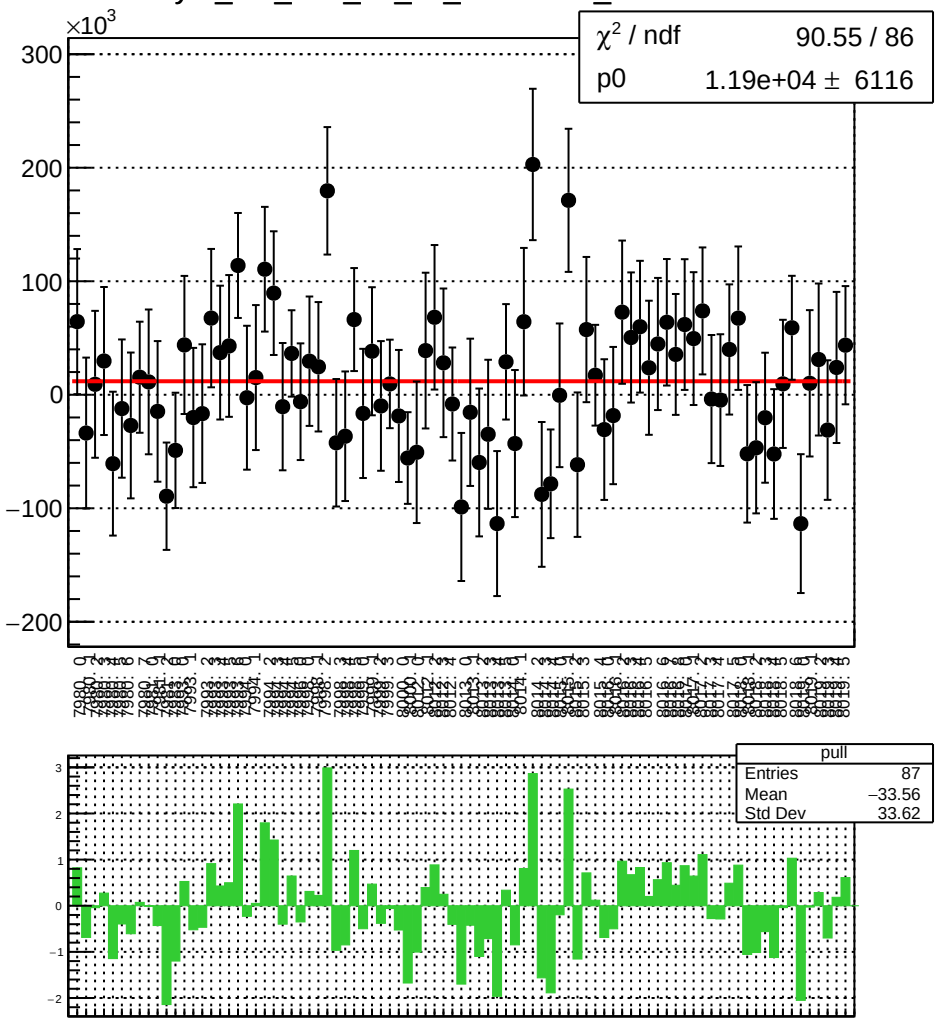

pull1D
Entries 87
Mean −0.000285
Std Dev 1.015

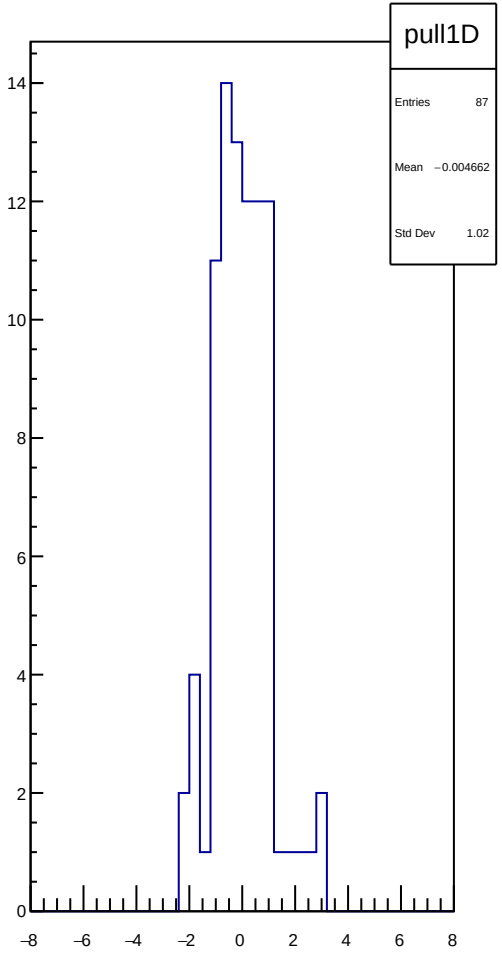

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5233 / 86
p0 5613 ± 4.236
6400
6200
6000
5800
5600
5400
5200
5000

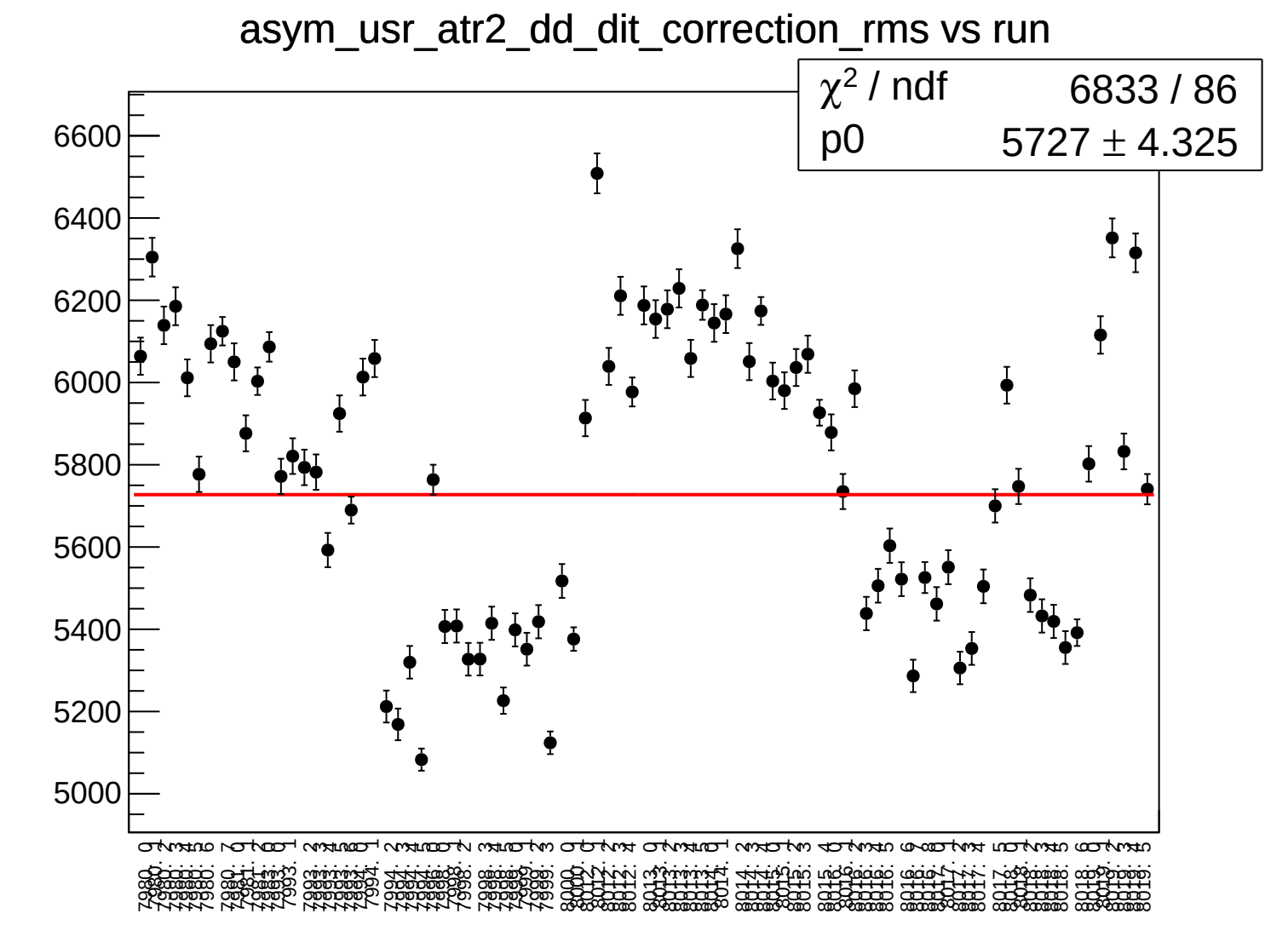

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 86.34 / 86
p0 −1842 ± 1405
pull
Entries 87
Mean 514.3
Std Dev 0

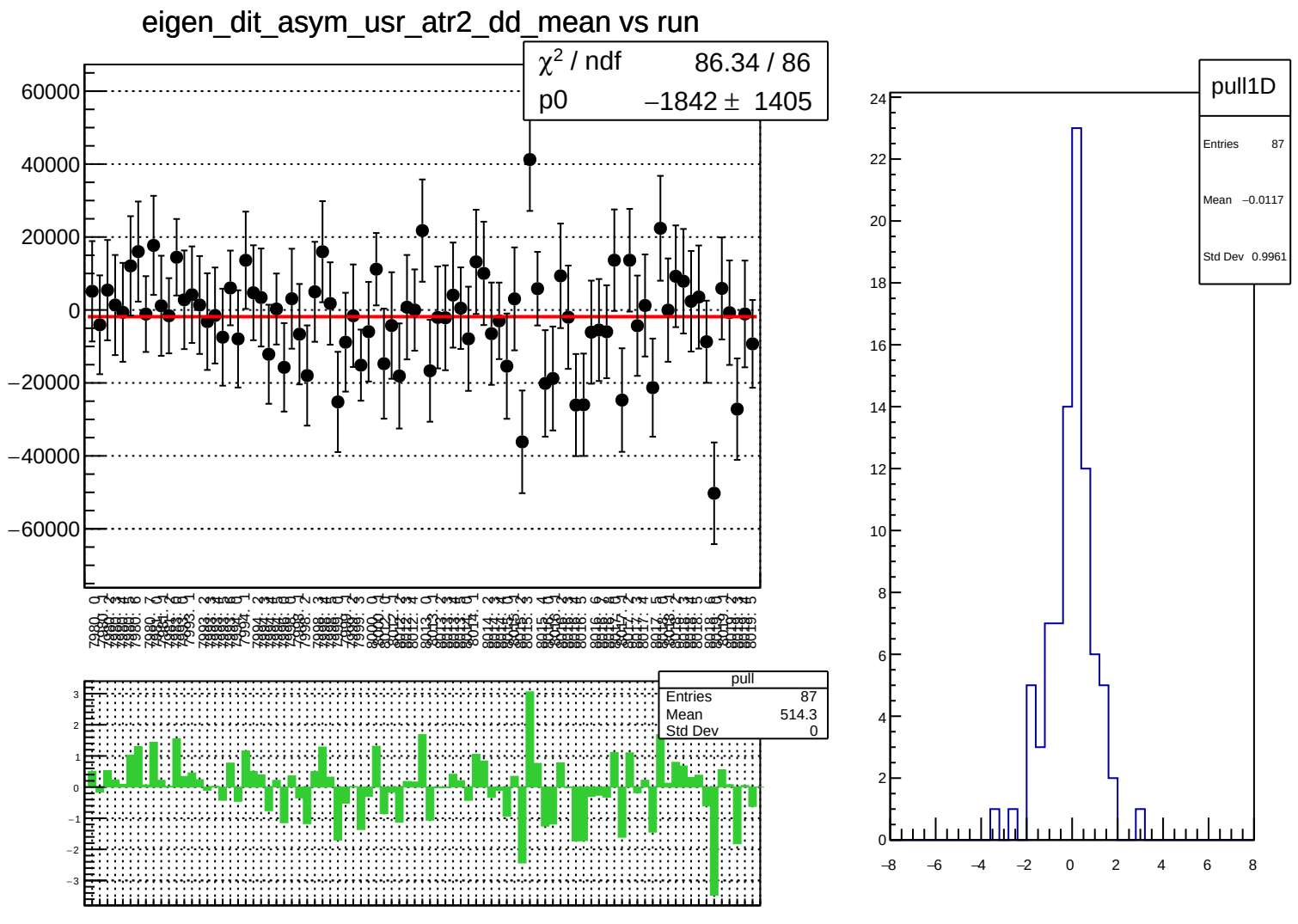

pull1D
Entries 87
Mean −0.0117
Std Dev 0.9961

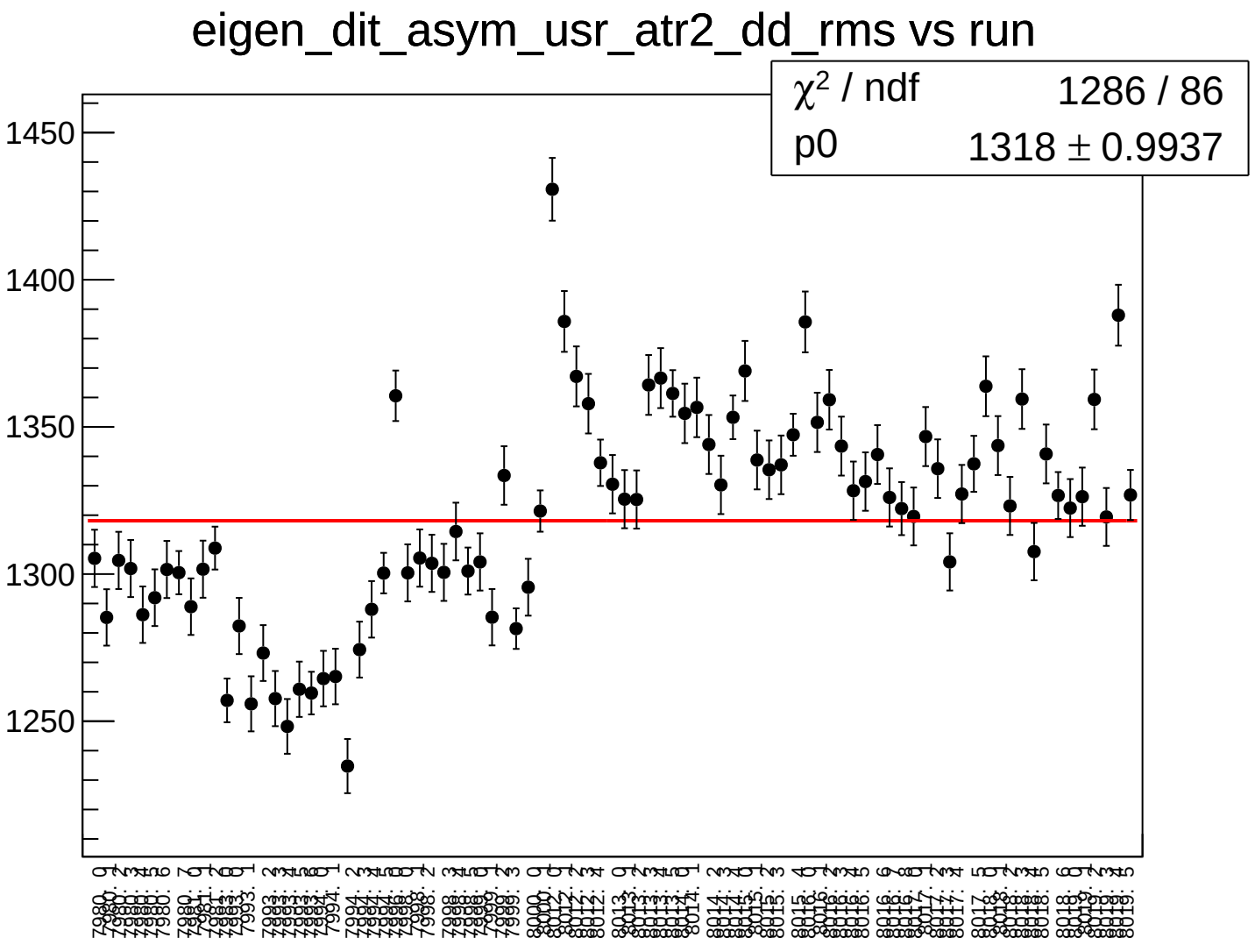

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1286 / 86
p0 1318 ± 0.9937
1450
1400
1350
1300
1250

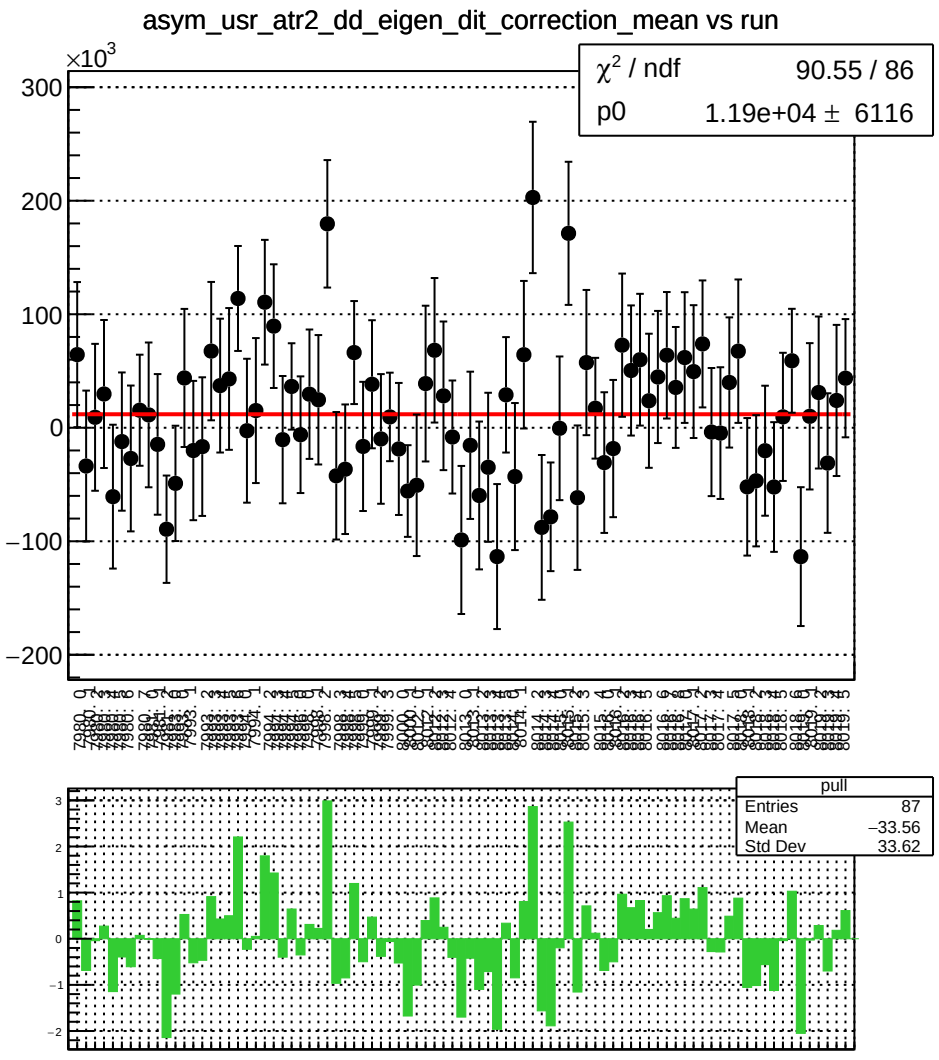

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 90.55 / 86
p0 1.19e+04 ± 6116
pull
Entries 87
Mean −33.56
Std Dev 33.62

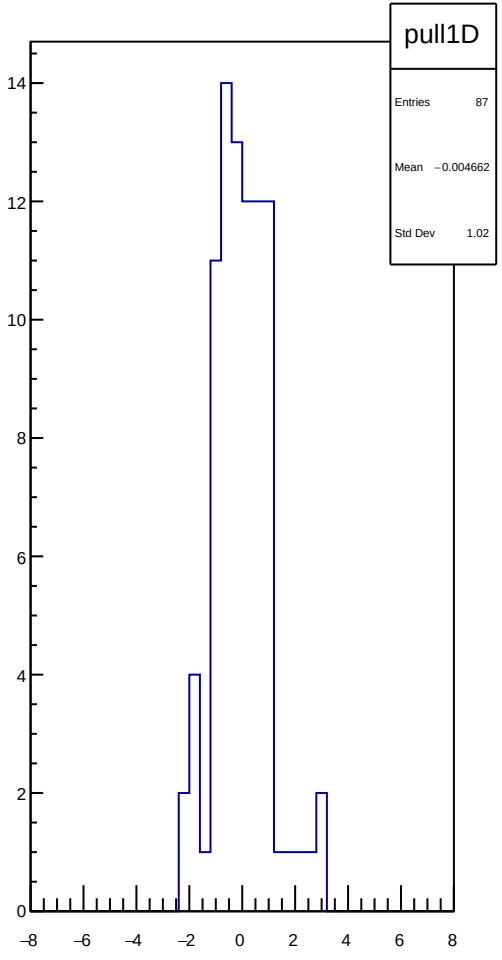

pull1D
Entries 87
Mean −0.004662
Std Dev 1.02

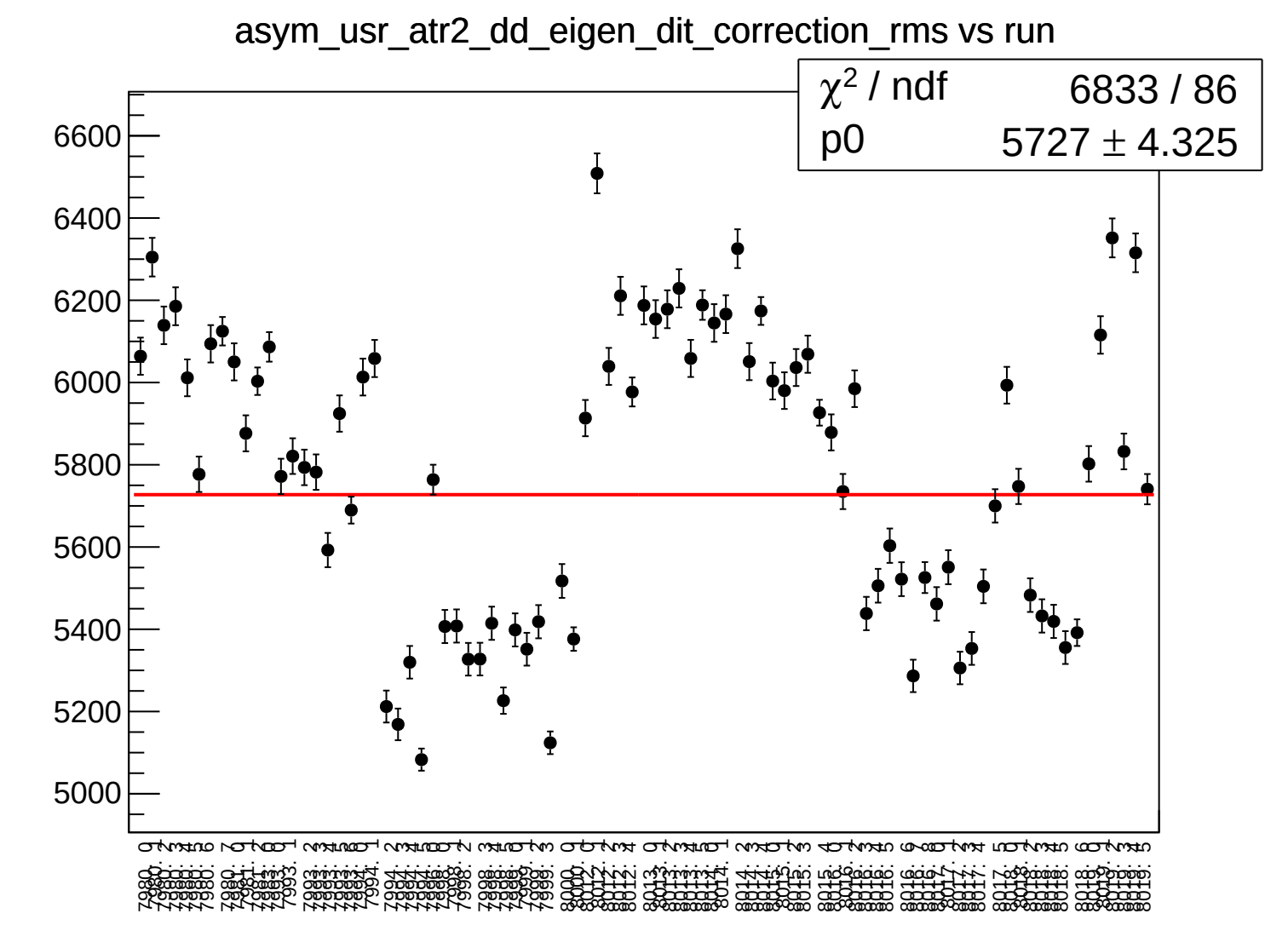

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 6833 / 86
p0 5727 ± 4.325
6600
6400
6200
6000
5800
5600
5400
5200
5000

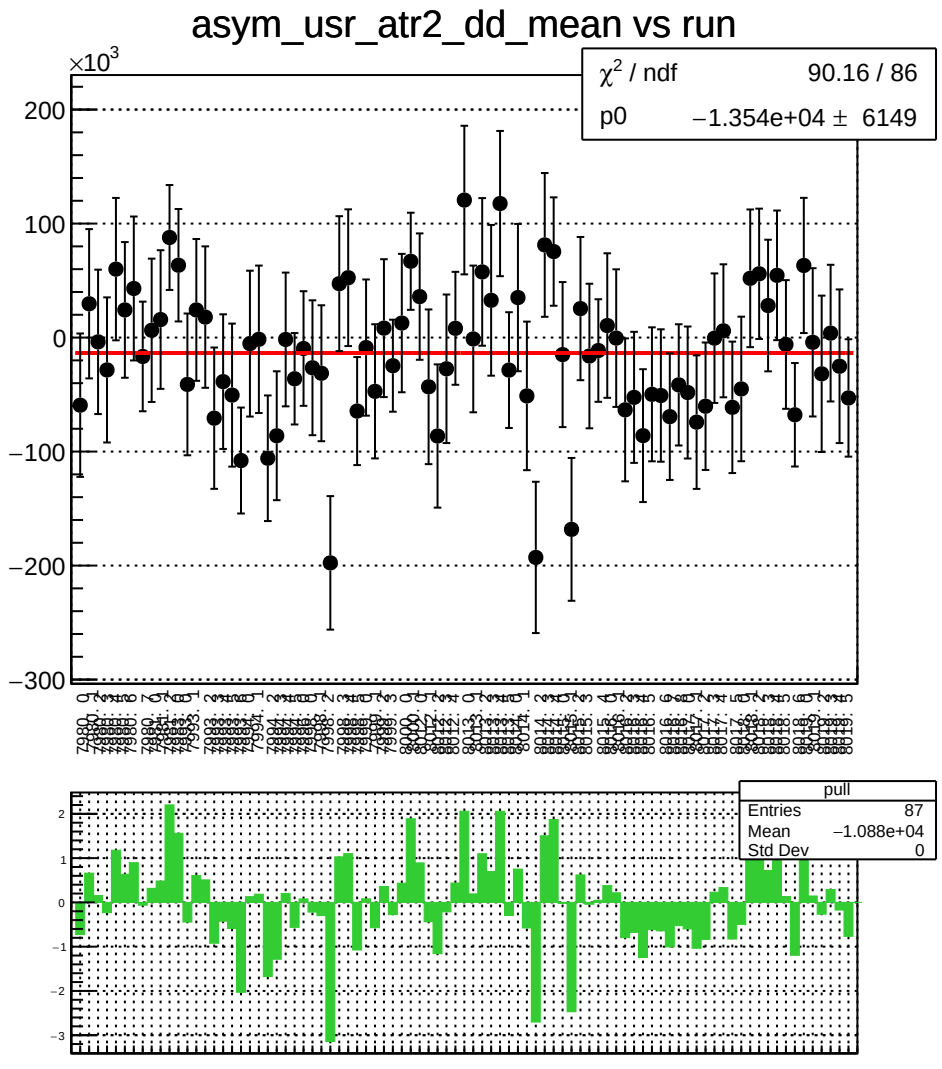

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 86.34 / 86
p0 −1842 ± 1405
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 514.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.0117
Std Dev 0.9961
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

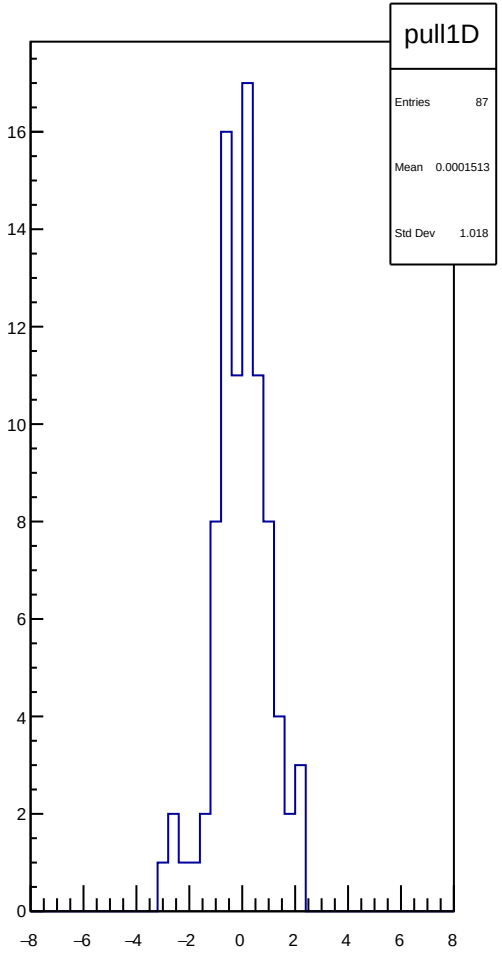

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1286 / 86
p0 1318 ± 0.9937
1450
1400
1350
1300
1250

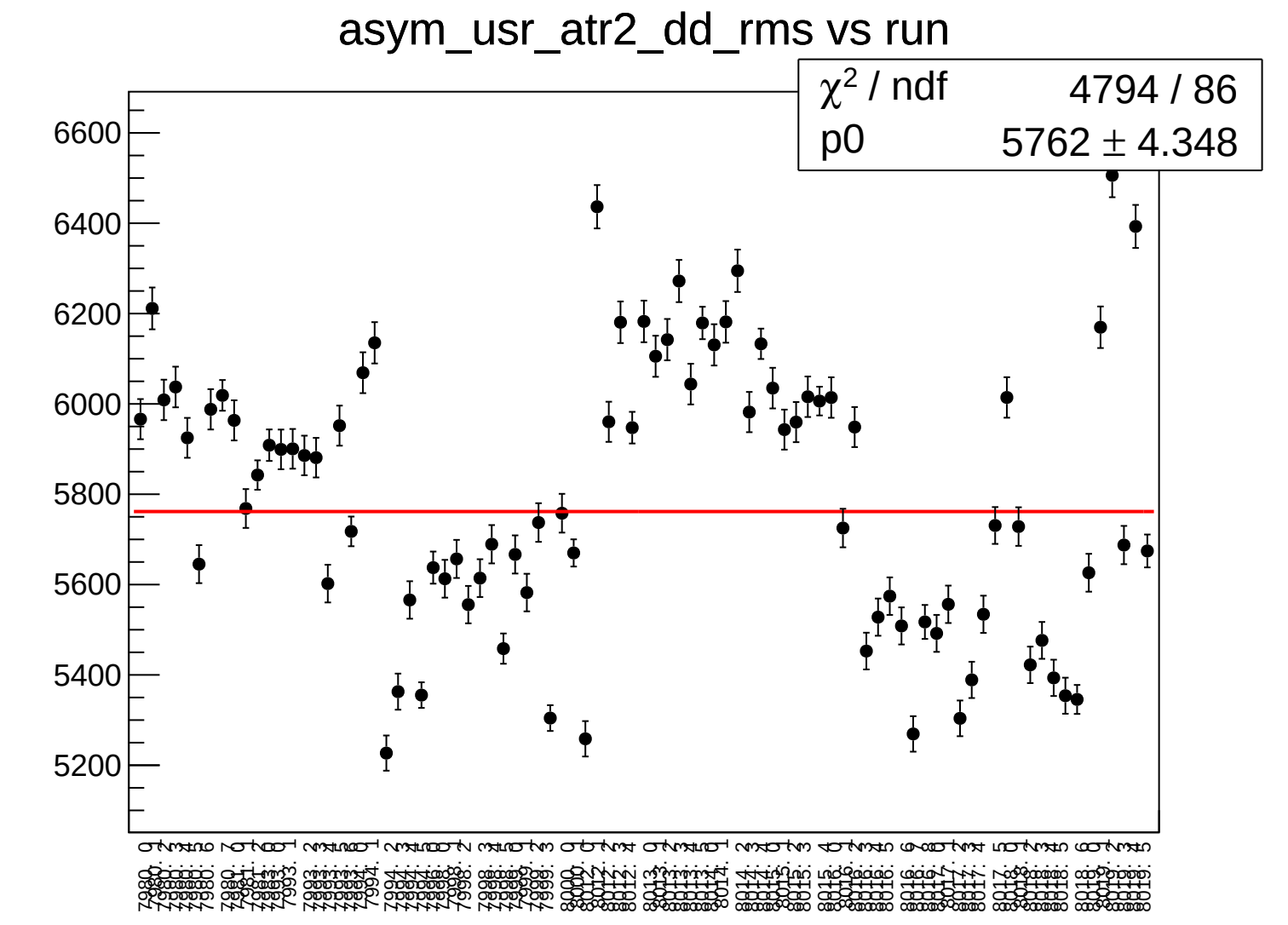

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.55 / 86
p0 1.19e+04 ± 6116
300
200
100
0
−100
−200
pull
Entries 87
Mean −33.56
Std Dev 33.62
3
2
1
0
−1
−2

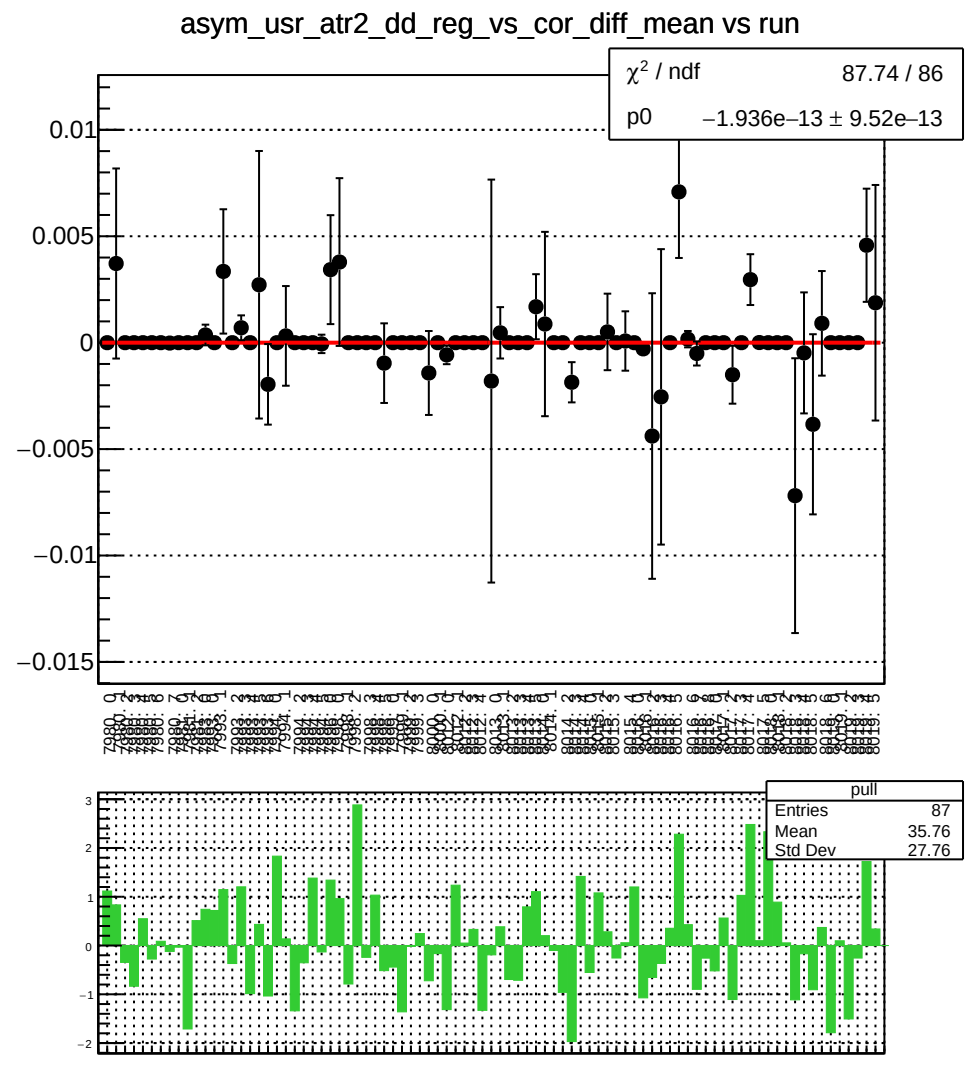

pull1D
Entries 87
Mean −0.004662
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

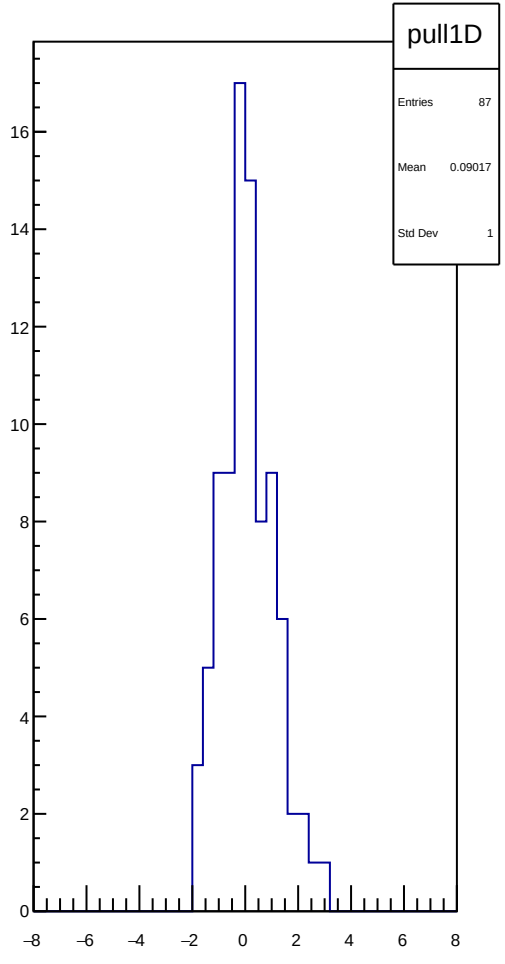

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6833 / 86
p0 5727 ± 4.325
6600
6400
6200
6000
5800
5600
5400
5200
5000

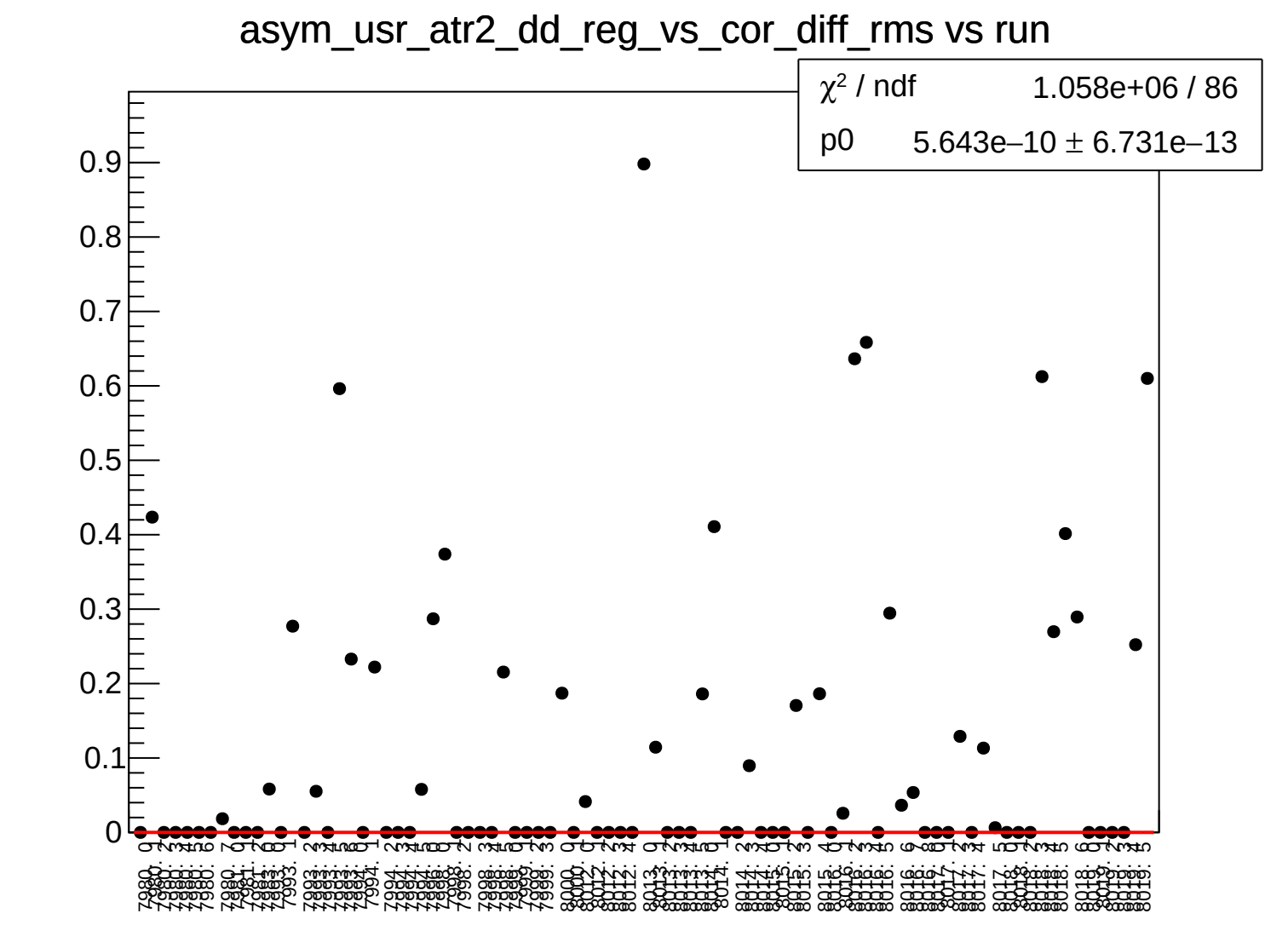

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 90.16 / 86
p0 −1.354e+04 ± 6149
pull
Entries 87
Mean −1.088e+04
Std Dev 0

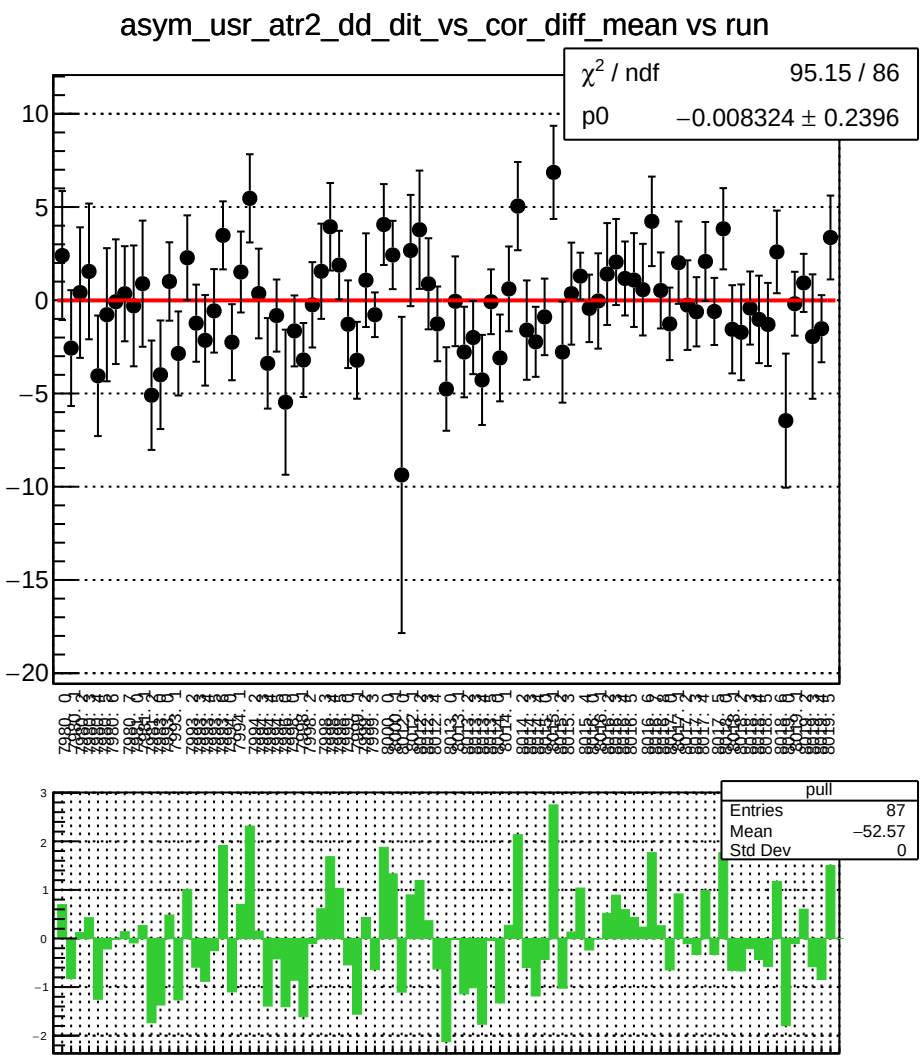

pull1D
Entries 87
Mean 0.0001513
Std Dev 1.018

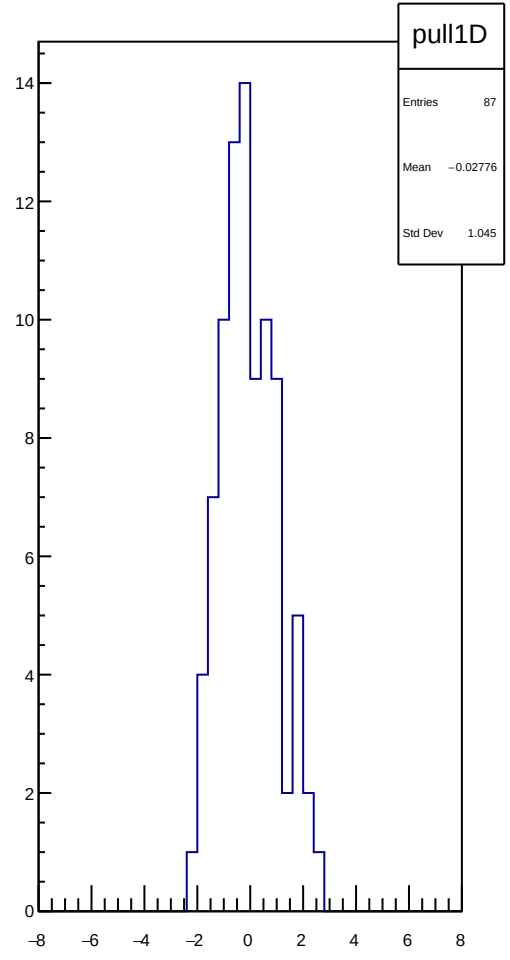

asym_usr_atr2_dd_rms vs run
χ² / ndf 4794 / 86
p0 5762 ± 4.348
6600
6400
6200
6000
5800
5600
5400
5200

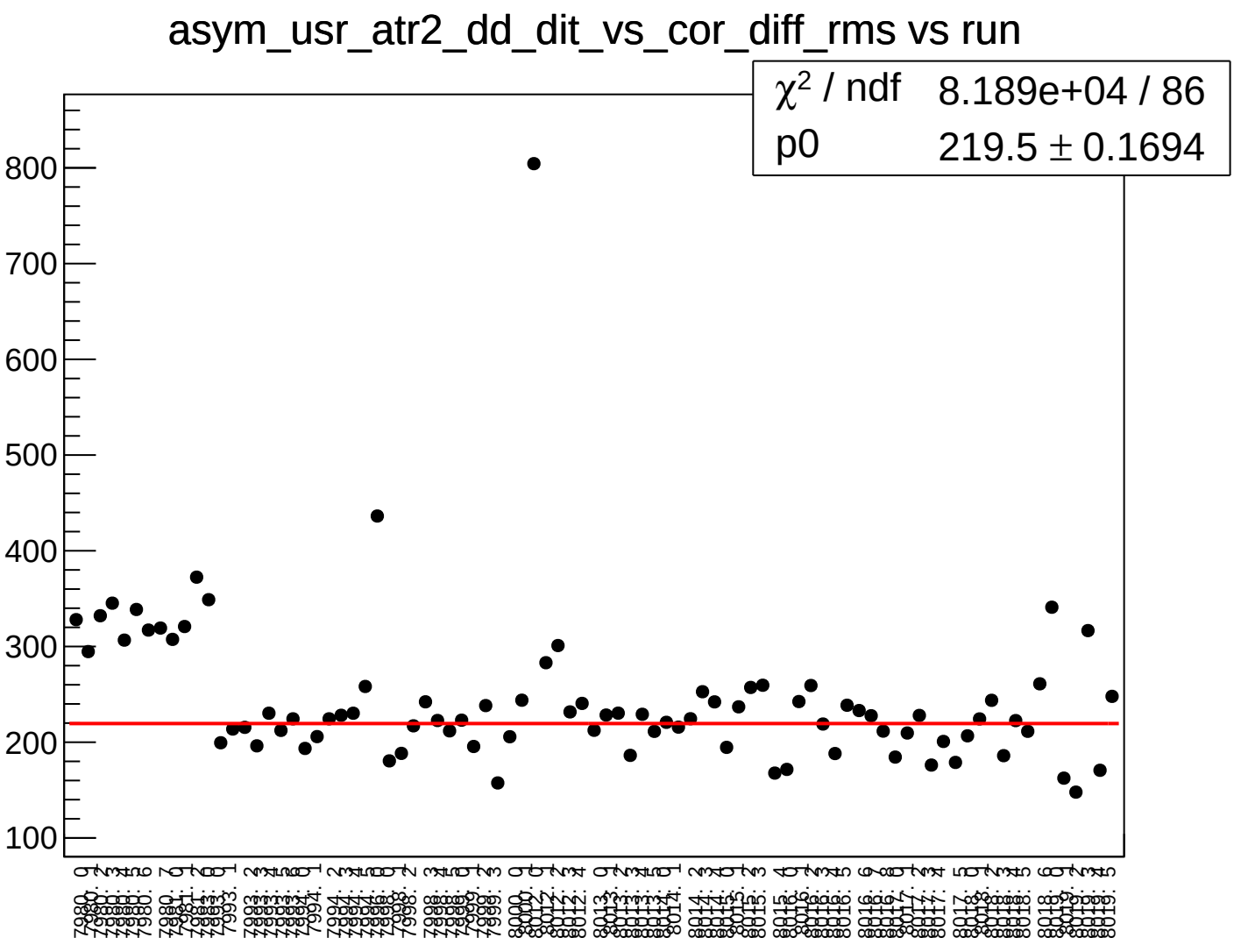

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.74 / 86
p0 −1.936e−13 ± 9.52e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 87
Mean 35.76
Std Dev 27.76
3
2
1
0
−1
−2

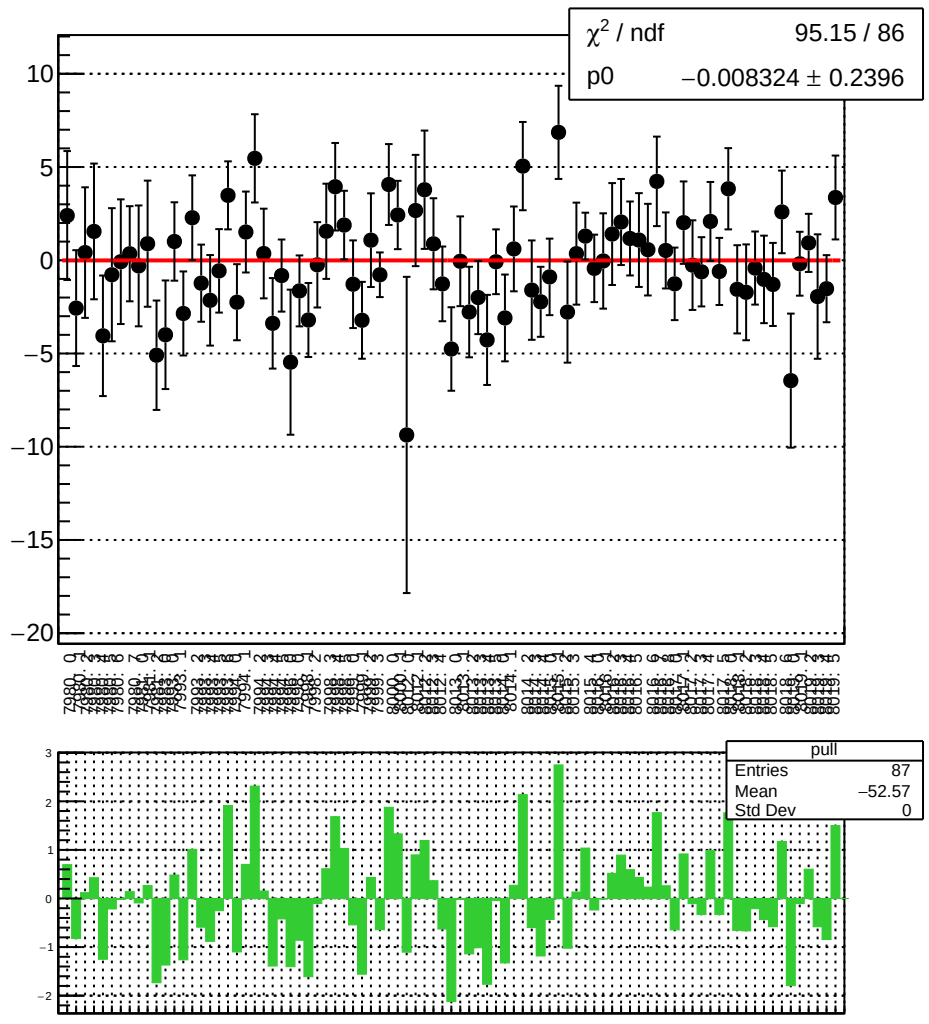

pull1D
Entries 87
Mean 0.09017
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

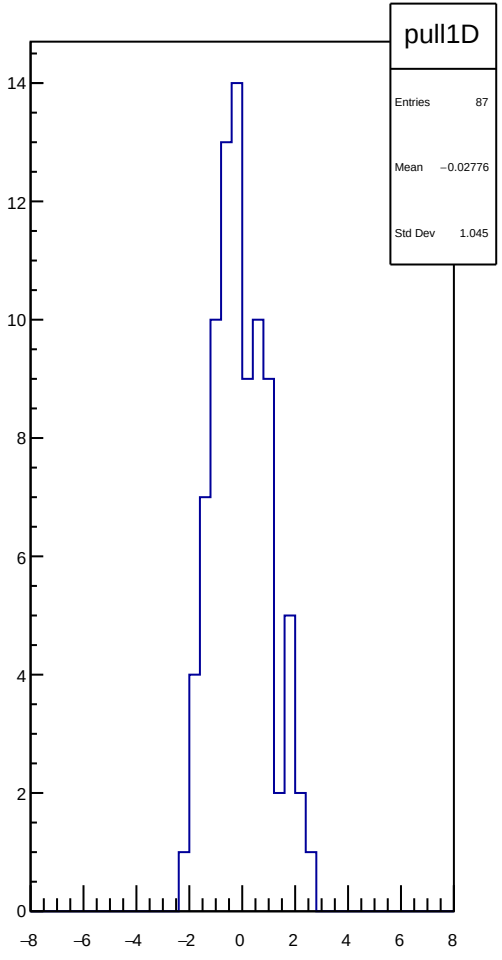

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.058e+06 / 86
p0 5.643e−10 ± 6.731e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

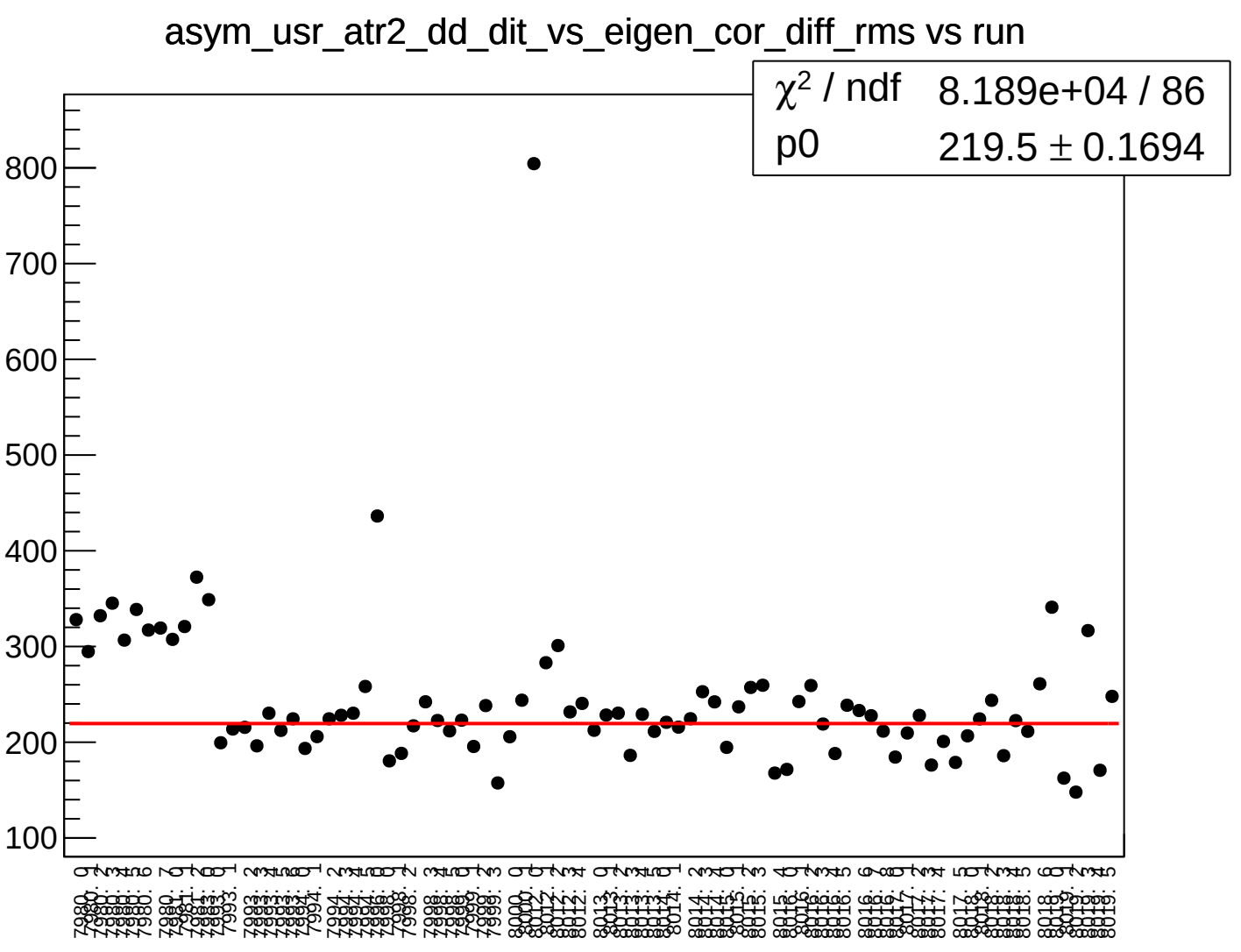

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.15 / 86
p0 −0.008324 ± 0.2396
pull
Entries 87
Mean −52.57
Std Dev 0

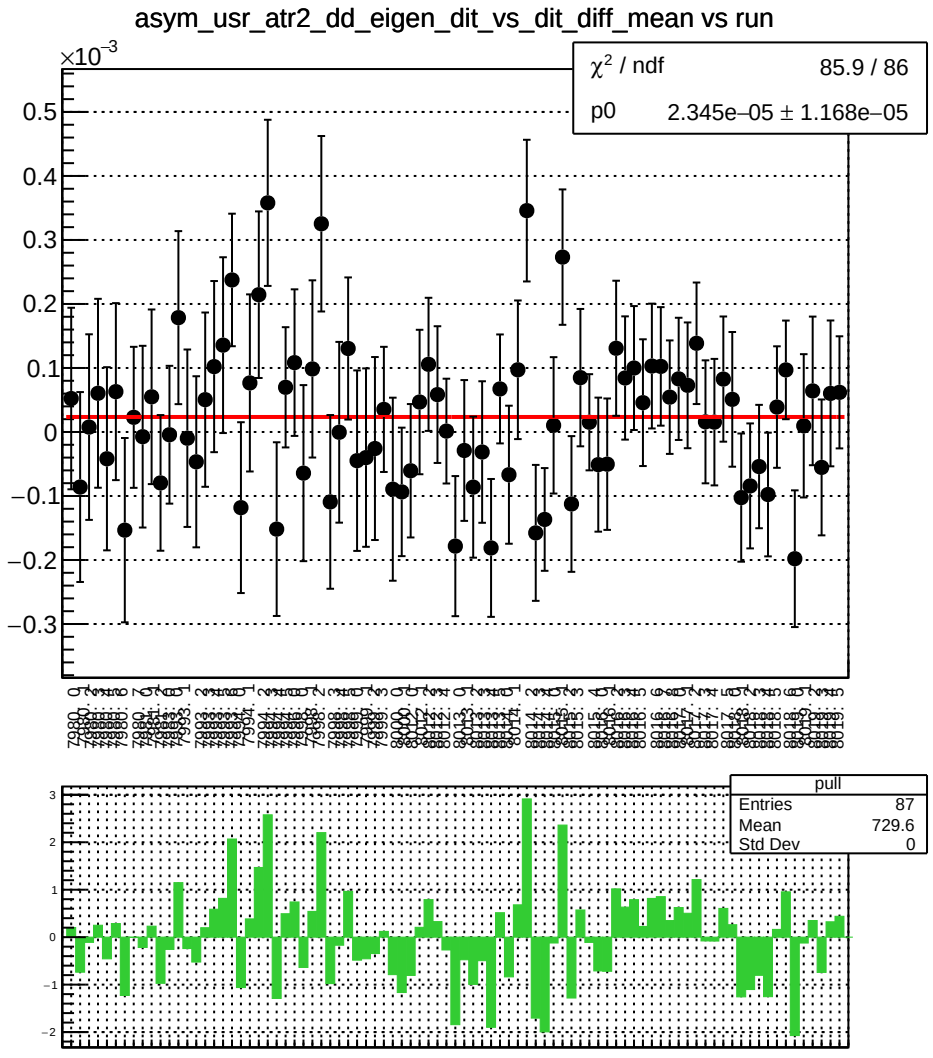

pull1D
Entries 87
Mean −0.02776
Std Dev 1.045

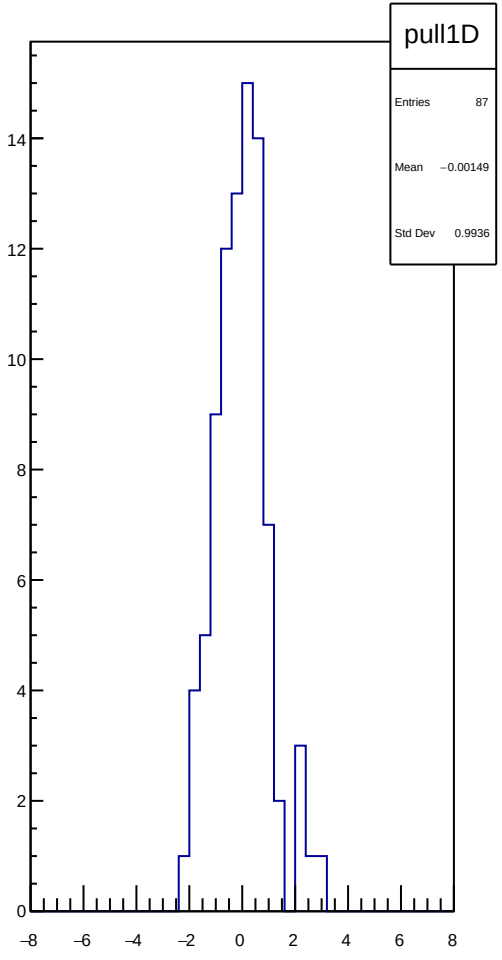

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.189e+04 / 86
p0 219.5 ± 0.1694
800
700
600
500
400
300
200
100

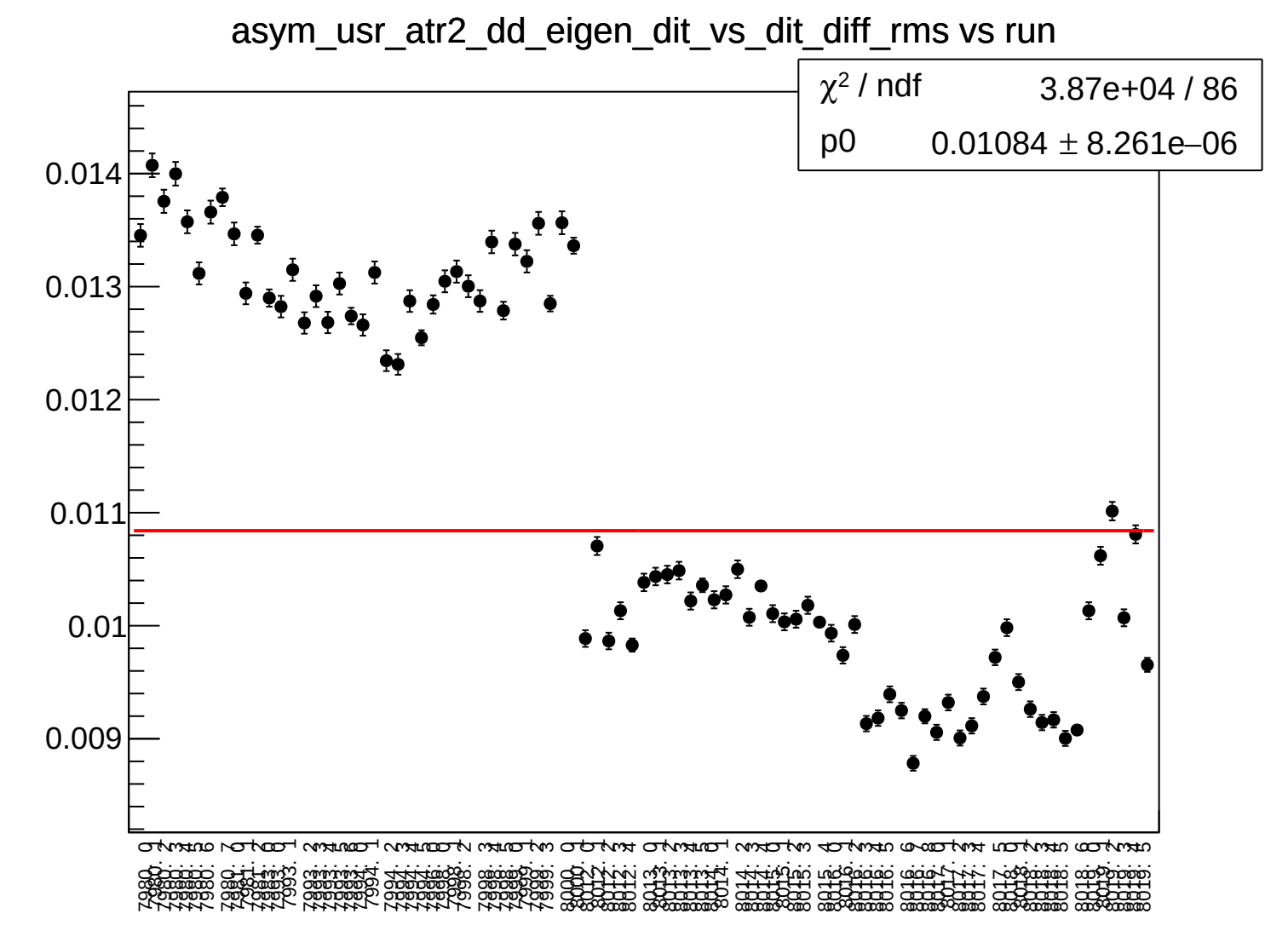

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.15 / 86
p0 −0.008324 ± 0.2396
pull
Entries 87
Mean −52.57
Std Dev 0

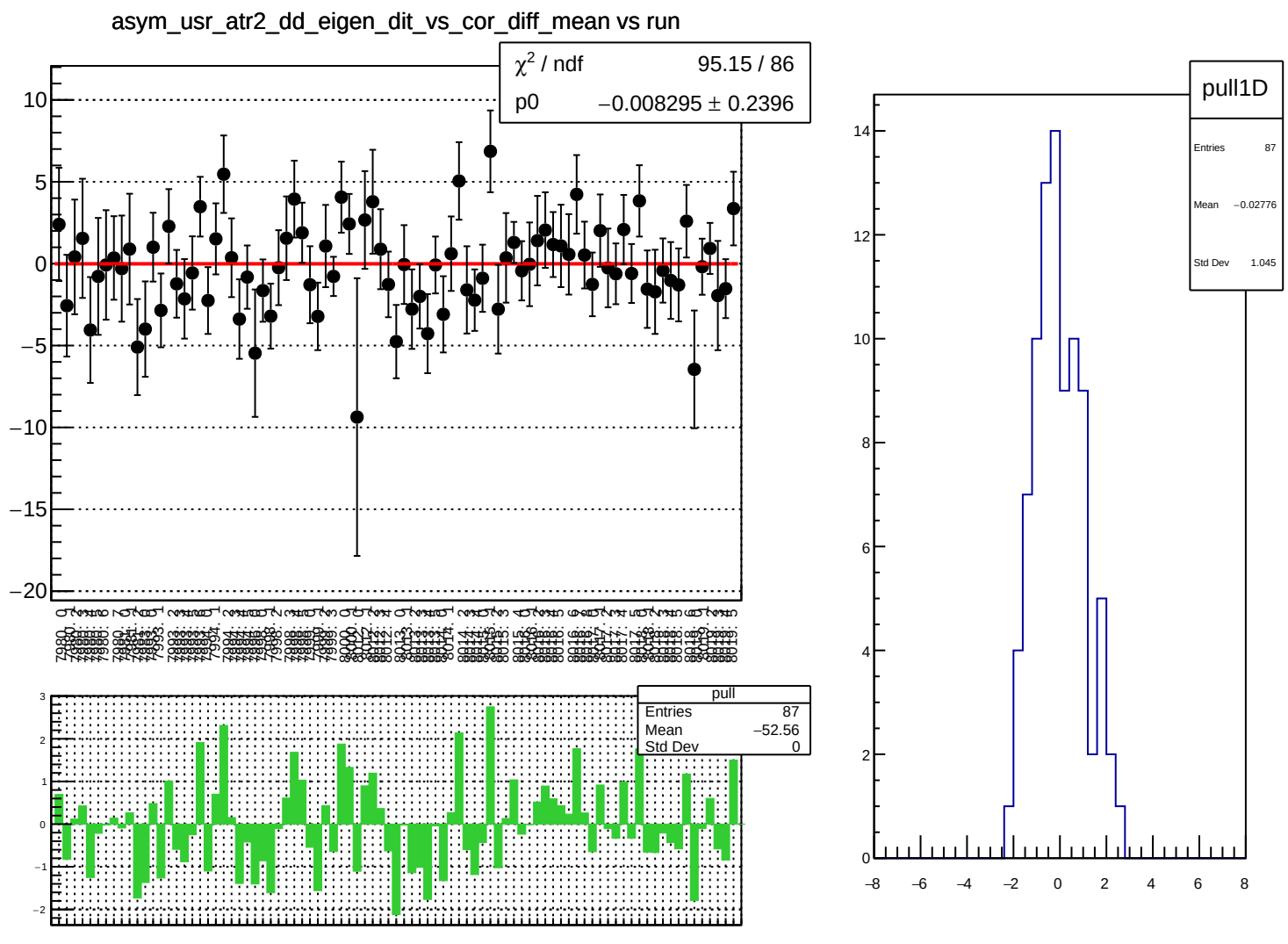

pull1D
Entries 87
Mean −0.02776
Std Dev 1.045

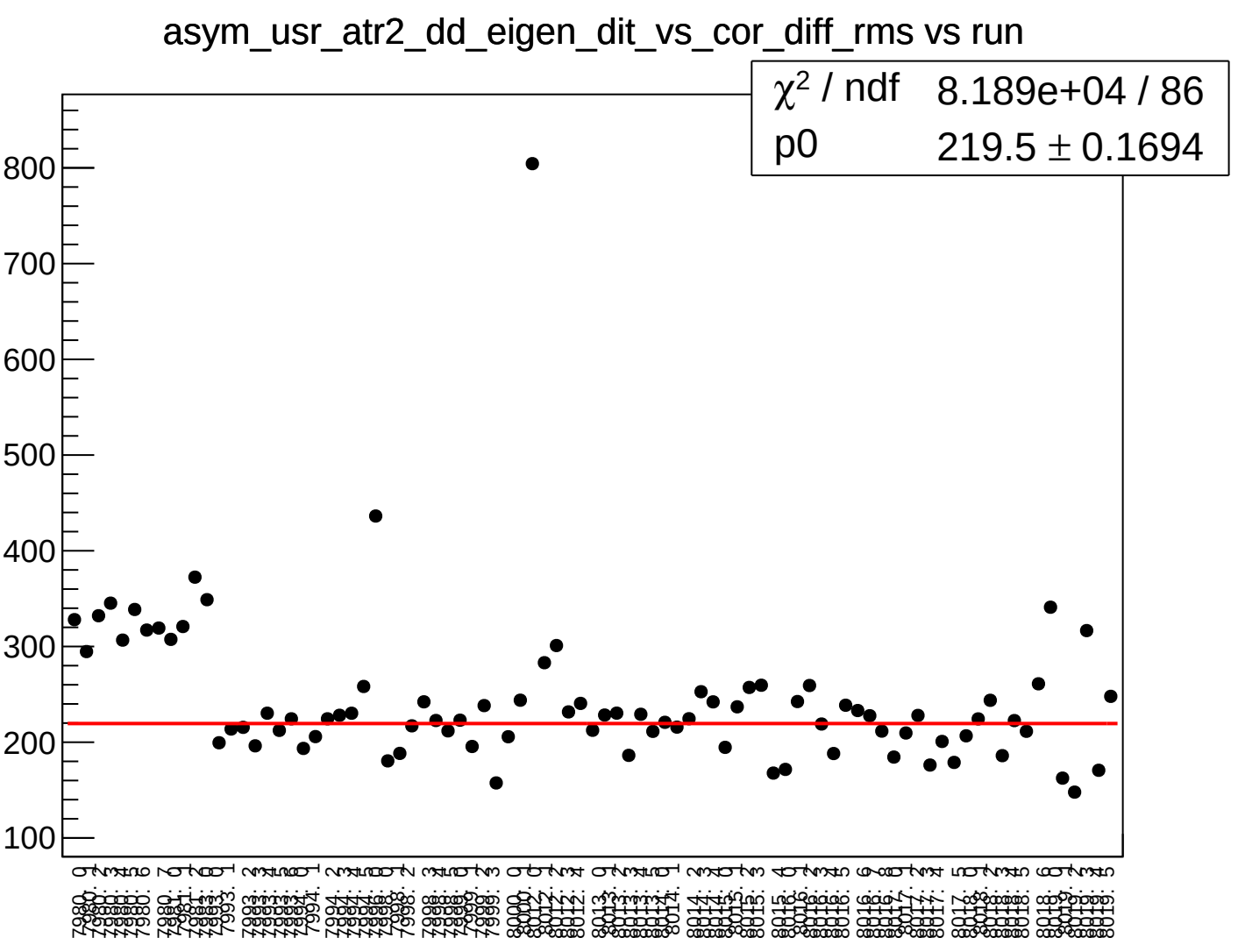

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.189e+04 / 86
p0 219.5 ± 0.1694
800
700
600
500
400
300
200
100

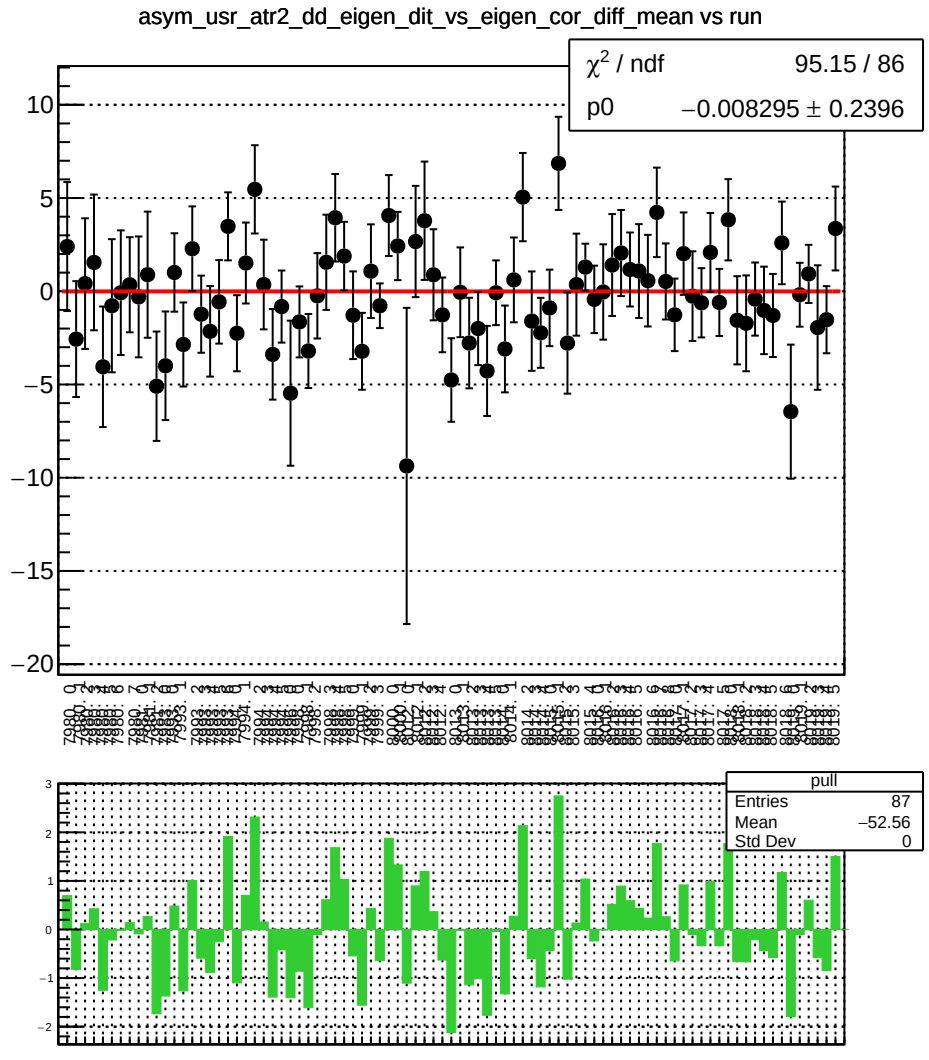

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 85.9 / 86
p0 2.345e−05 ± 1.168e−05
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 87
Mean 729.6
Std Dev 0
3
2
1
0
−1
−2

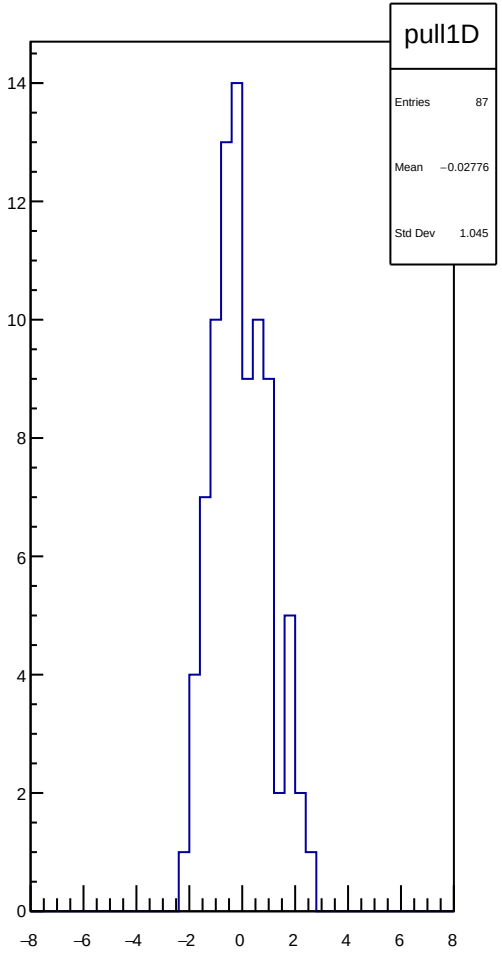

pull1D
Entries 87
Mean −0.00149
Std Dev 0.9936
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

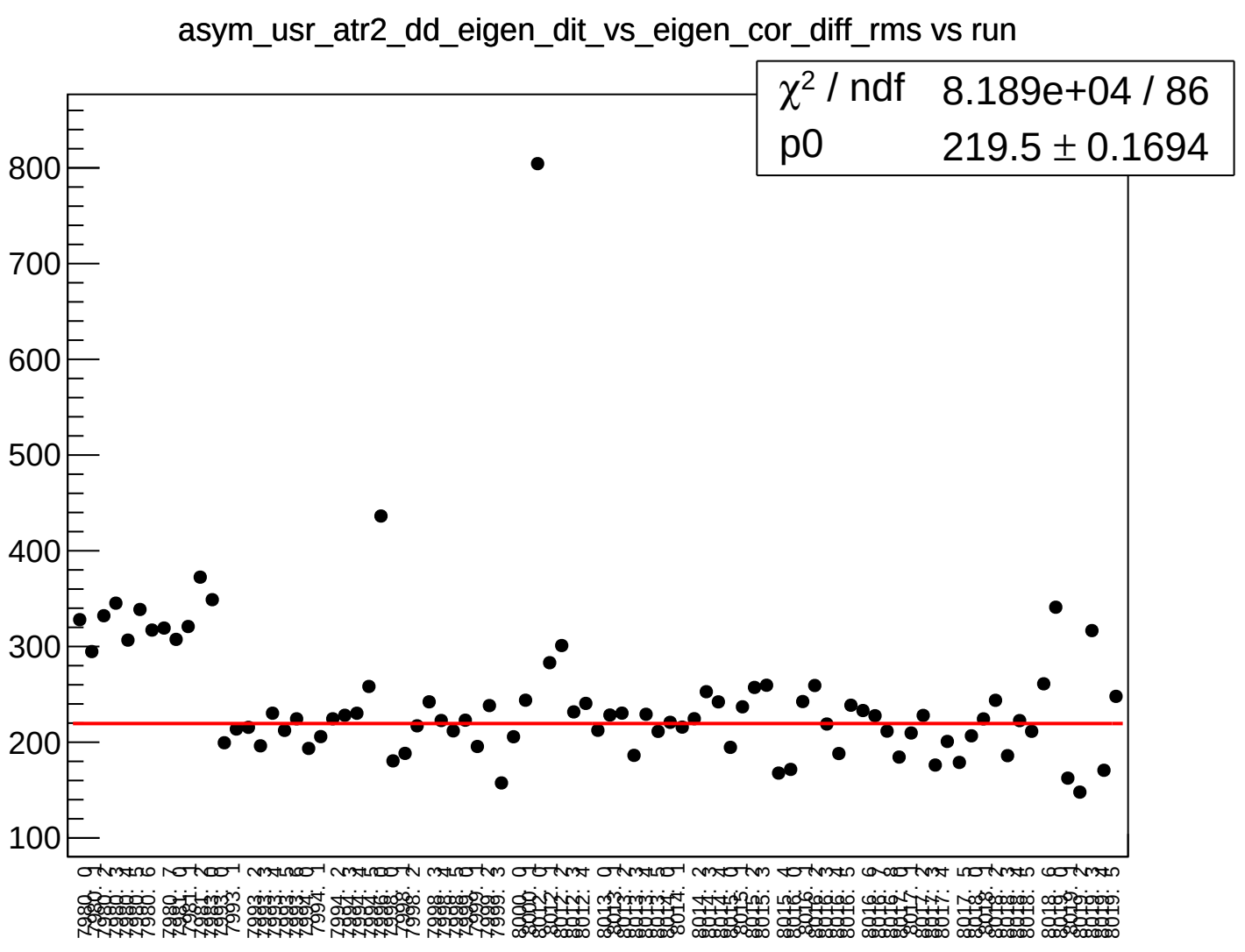

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.87e+04 / 86
p0 0.01084 ± 8.261e–06
0.014
0.013
0.012
0.011
0.01
0.009

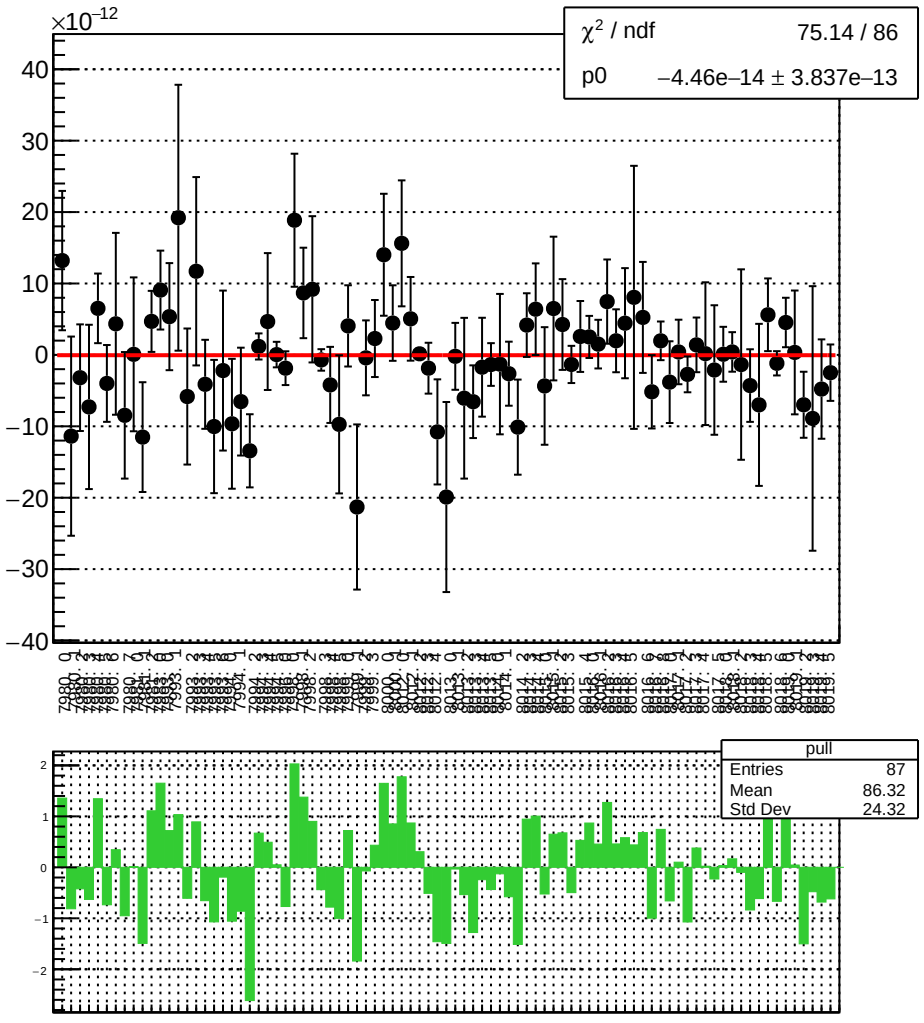

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.15 / 86
p0 −0.008295 ± 0.2396
pull
Entries 87
Mean −52.56
Std Dev 0
pull1D
Entries 87
Mean −0.02776
Std Dev 1.045

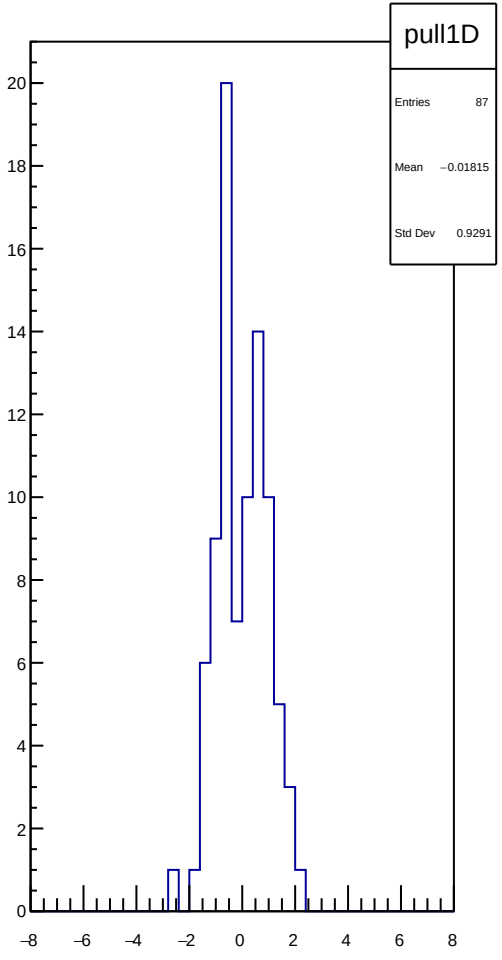

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.189e+04 / 86
p0 219.5 ± 0.1694
800
700
600
500
400
300
200
100

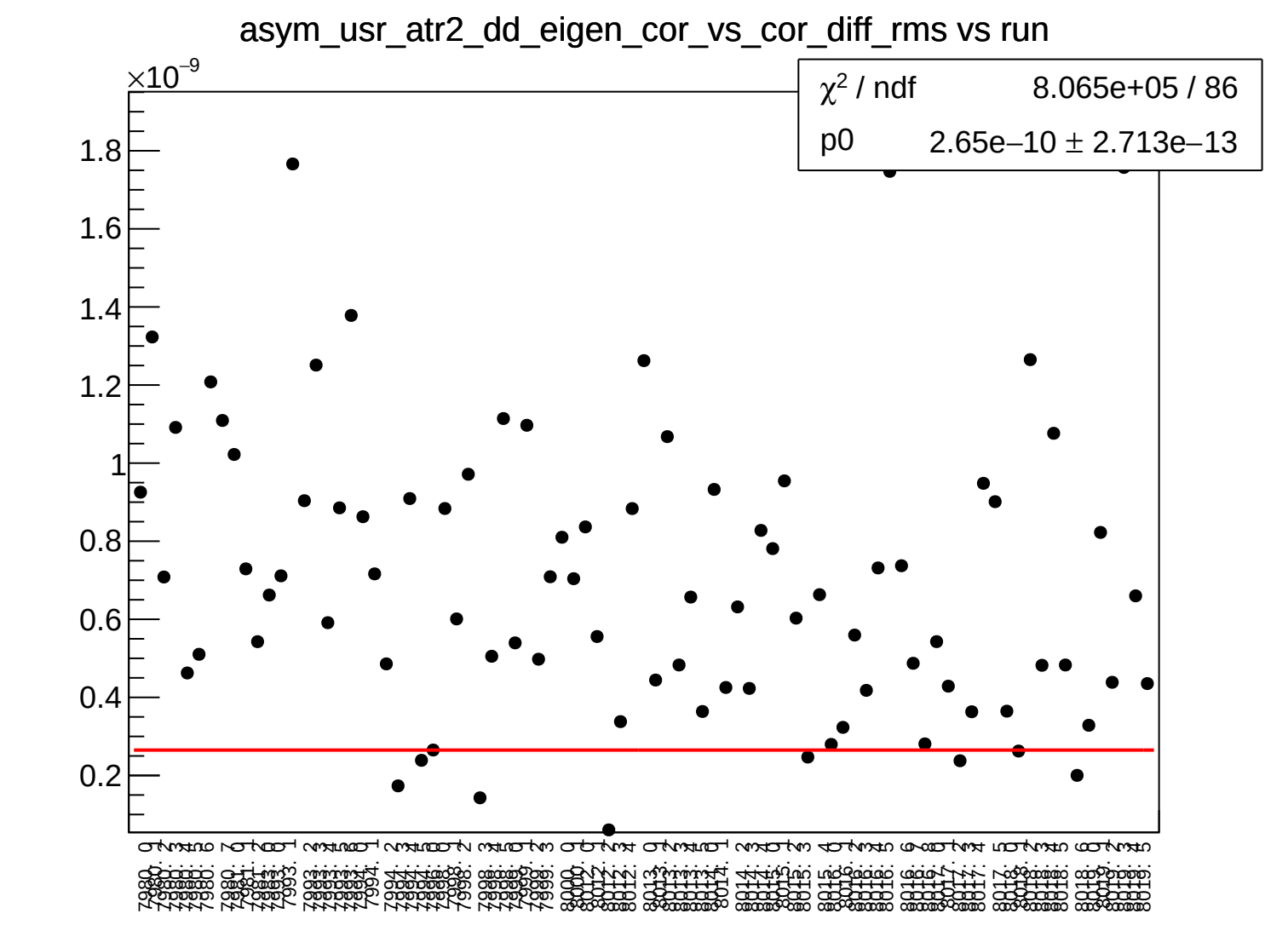

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.15 / 86
p0 −0.008295 ± 0.2396
pull
Entries 87
Mean −52.56
Std Dev 0

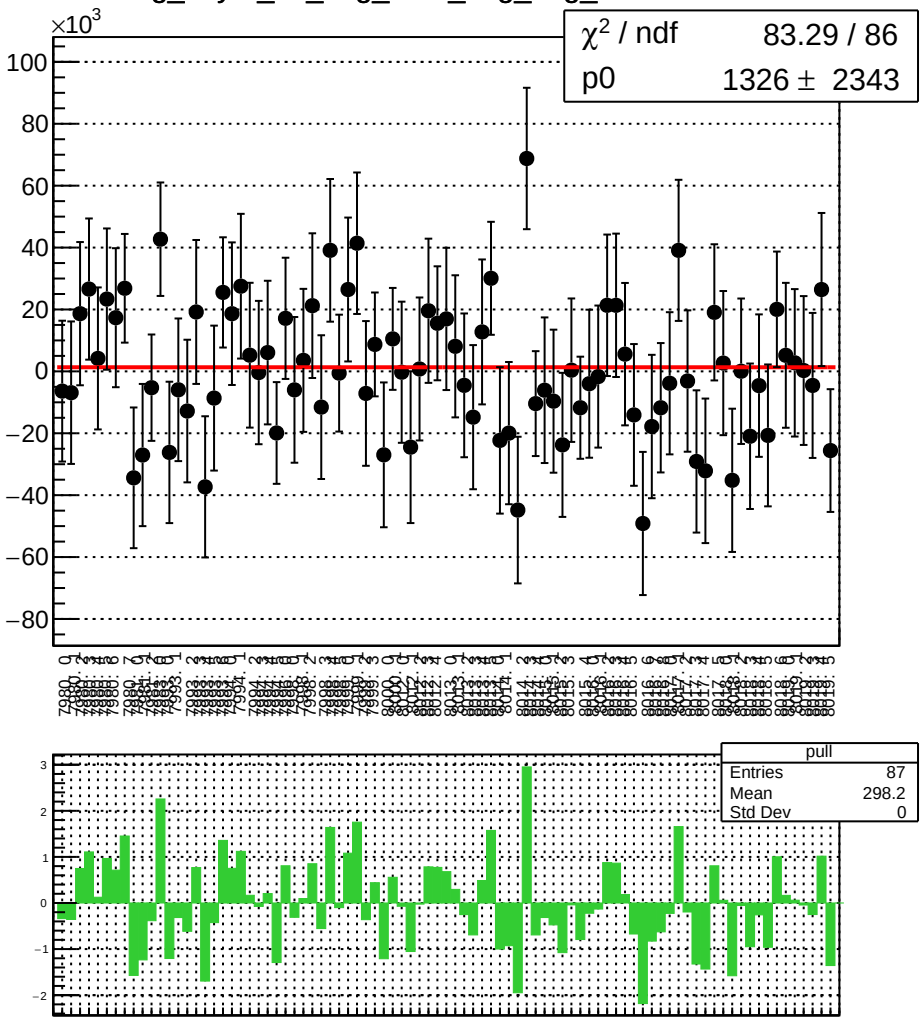

pull1D
Entries 87
Mean −0.02776
Std Dev 1.045

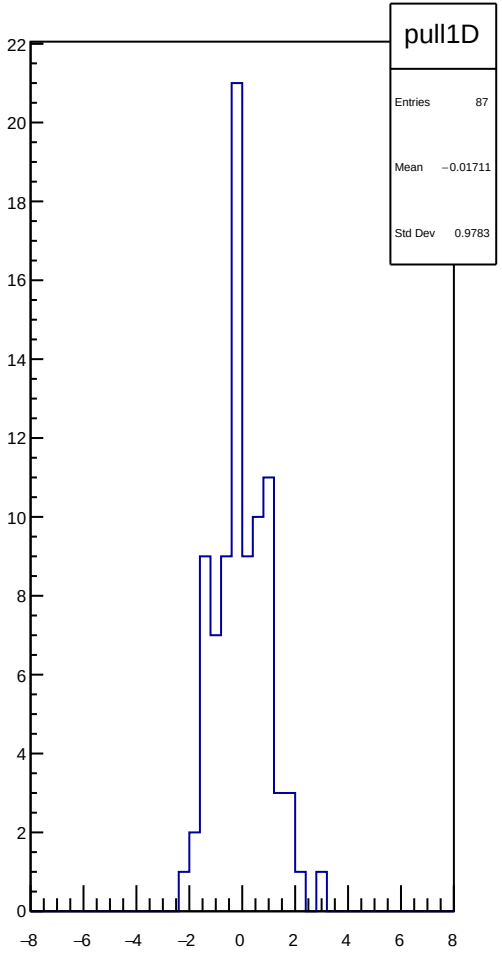

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.189e+04 / 86
p0 219.5 ± 0.1694
800
700
600
500
400
300
200
100

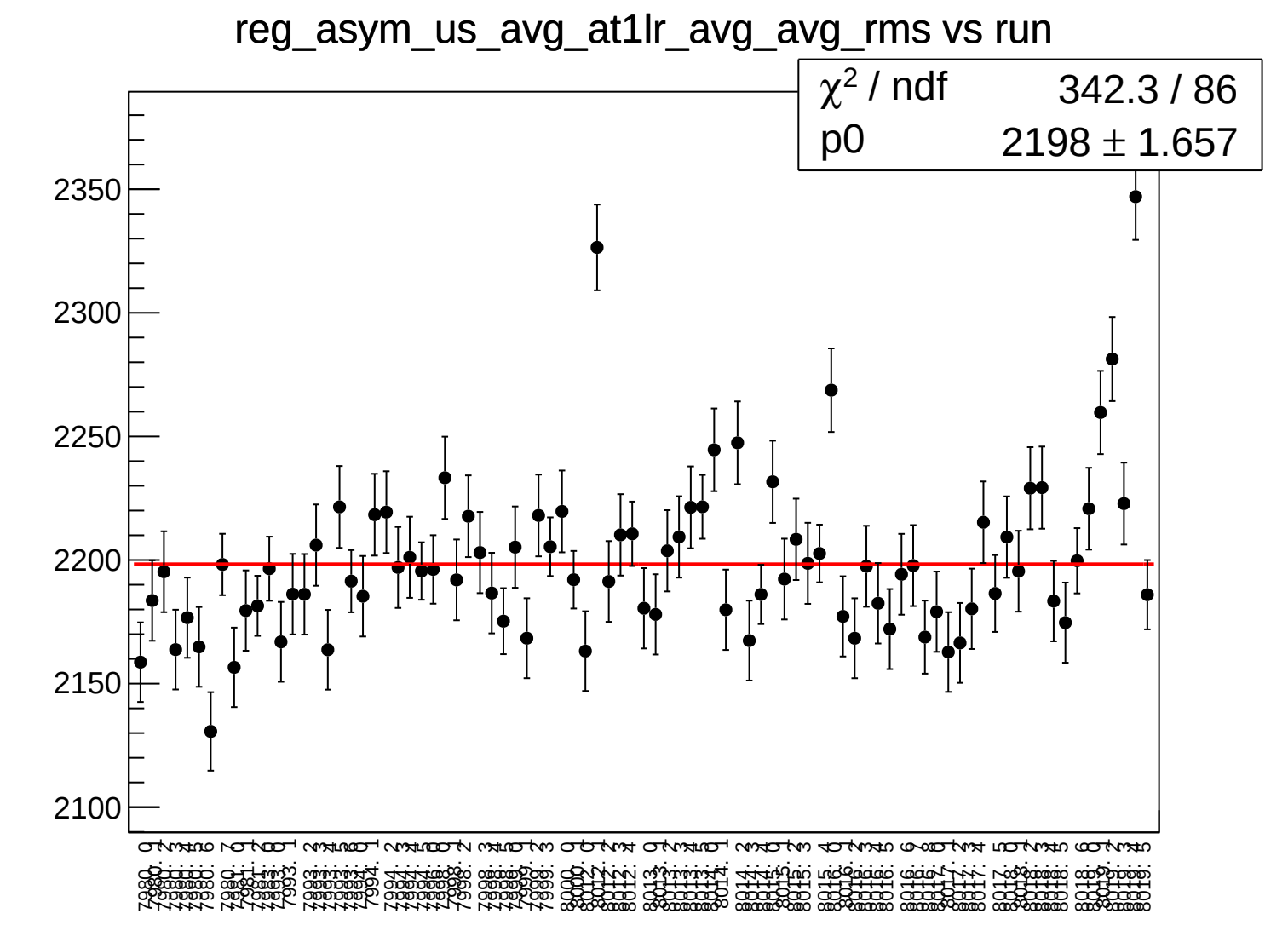

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.14 / 86
p0 −4.46e−14 ± 3.837e−13
pull
Entries 87
Mean 86.32
Std Dev 24.32

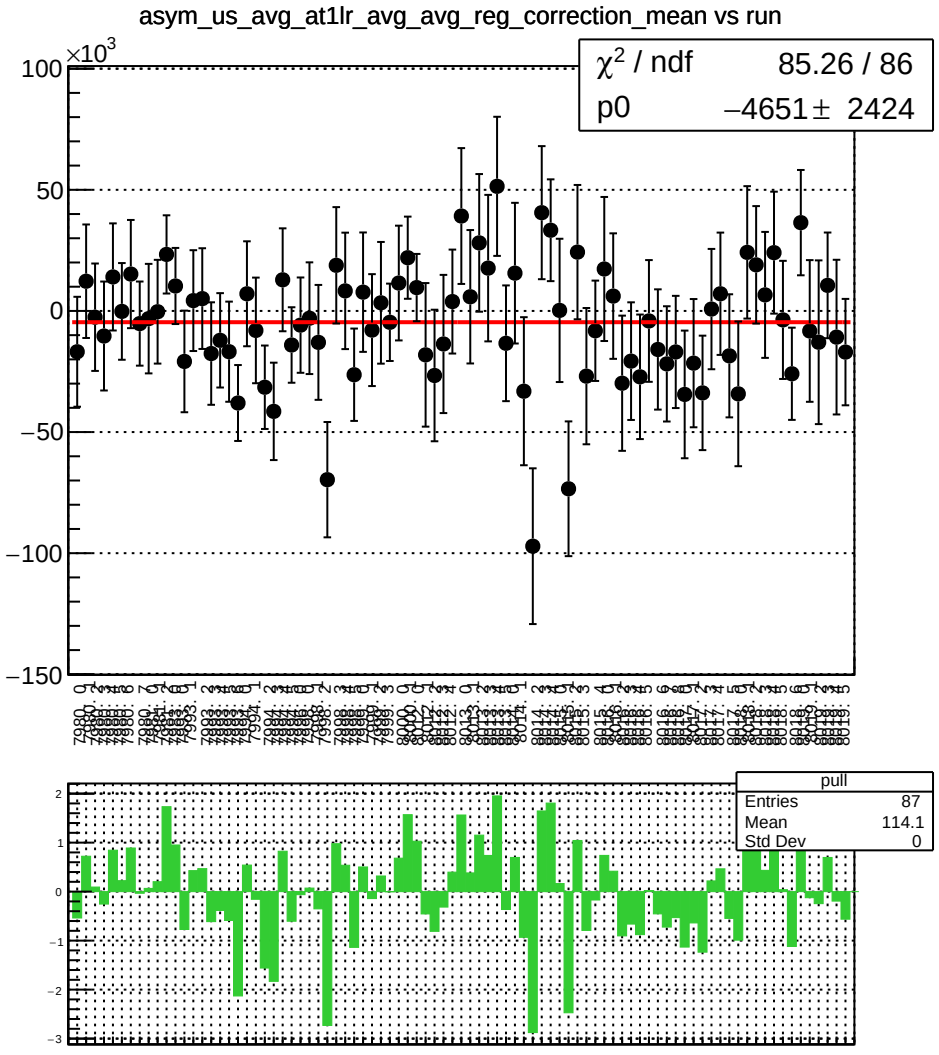

pull1D
Entries 87
Mean −0.01815
Std Dev 0.9291

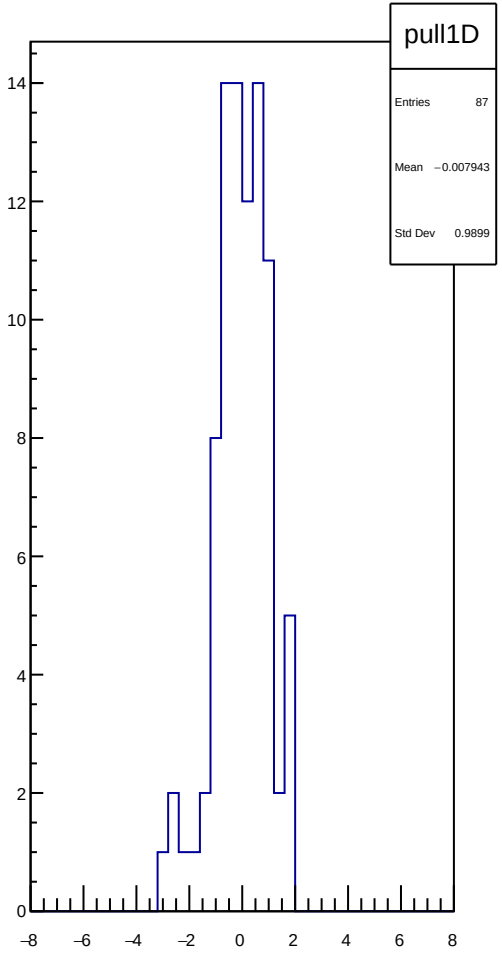

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.065e+05 / 86
p0 2.65e−10 ± 2.713e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

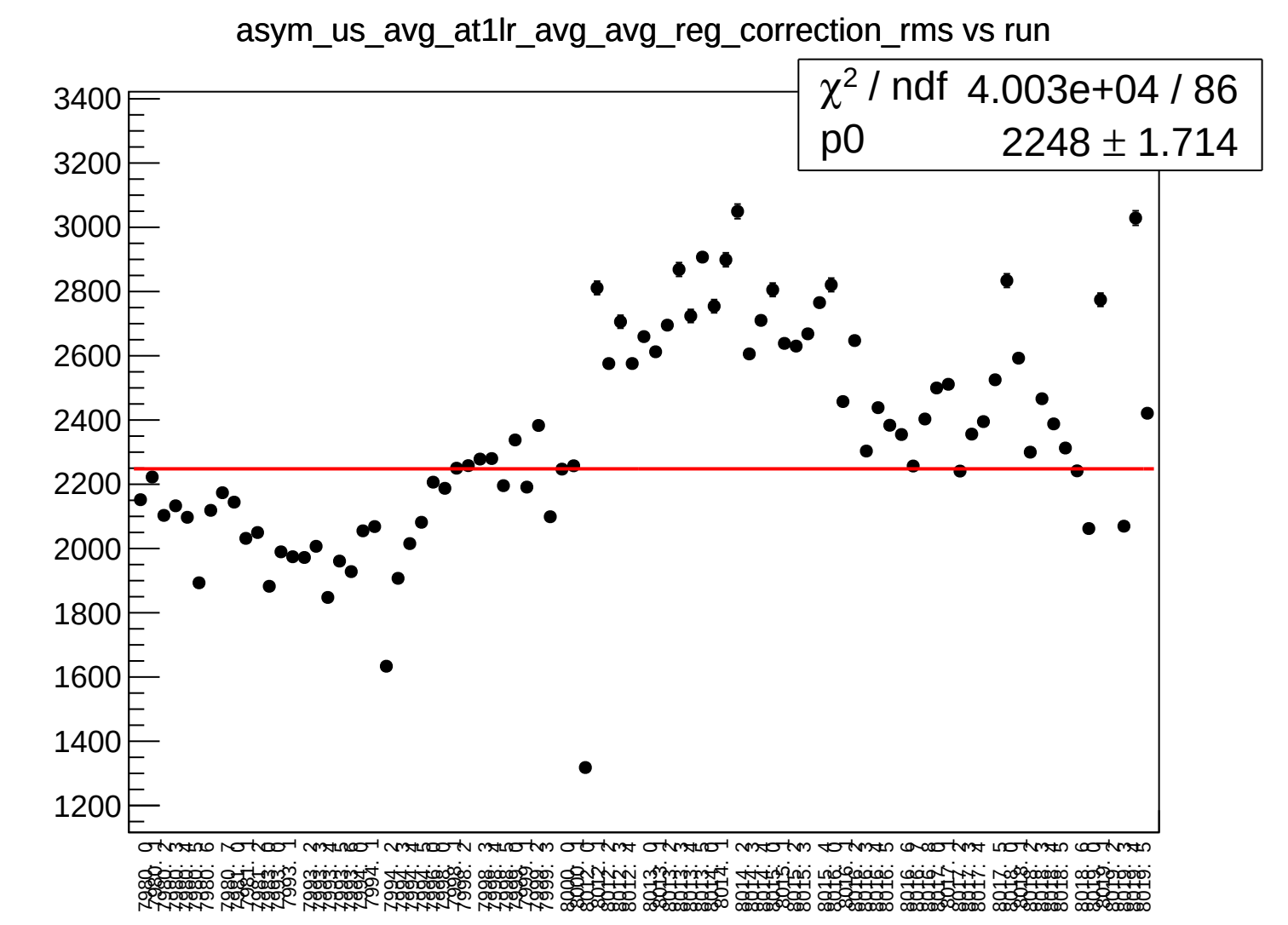

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 83.29 / 86
p0 1326 ± 2343
pull
Entries 87
Mean 298.2
Std Dev 0

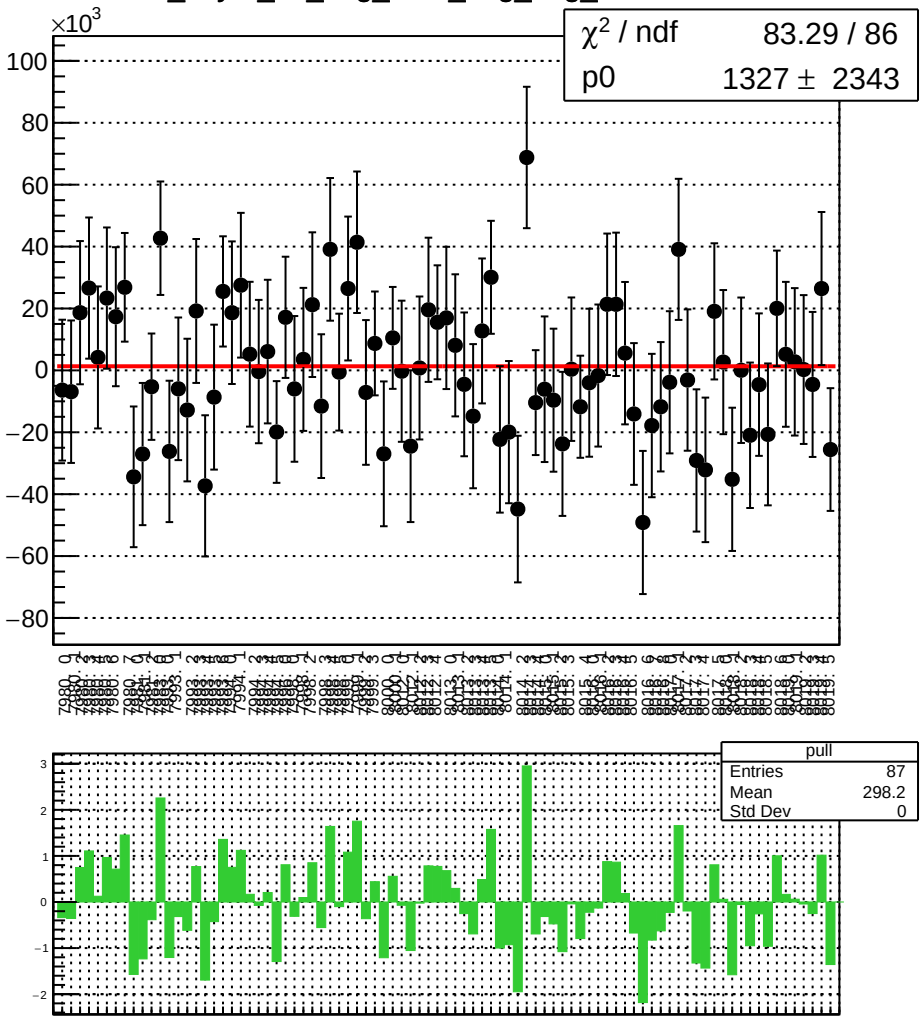

pull1D
Entries 87
Mean −0.01711
Std Dev 0.9783

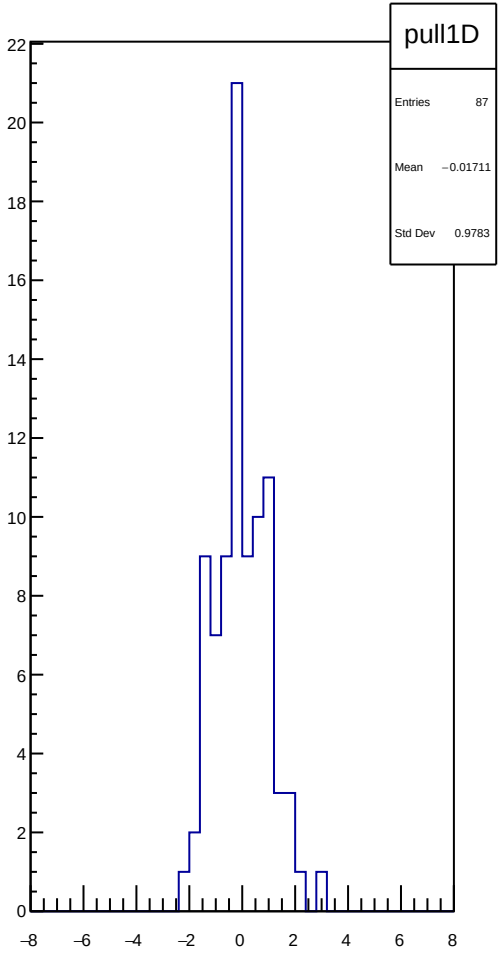

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 342.3 / 86
p0 2198 ± 1.657
2350
2300
2250
2200
2150
2100

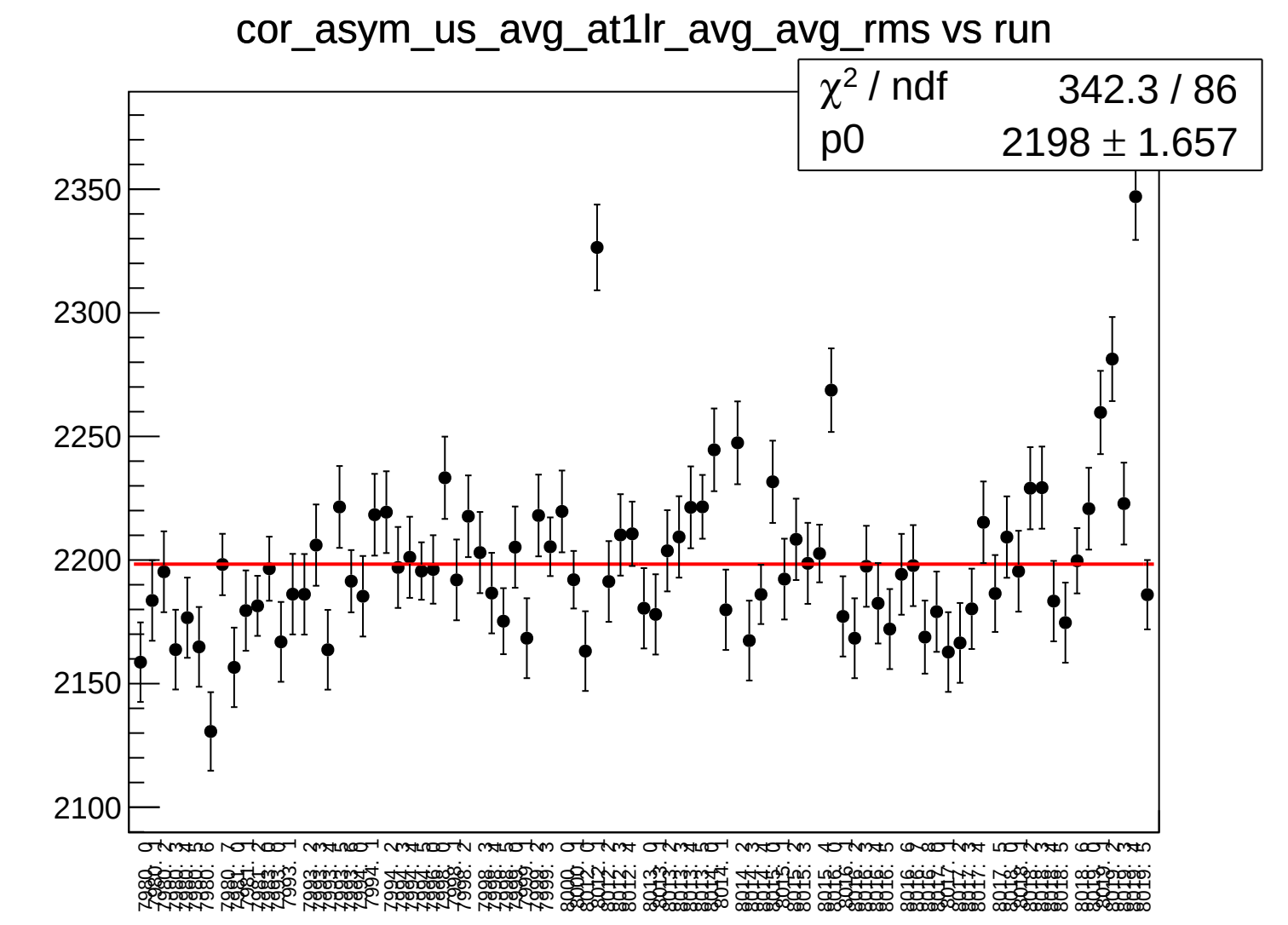

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 85.26 / 86
p0 −4651 ± 2424
pull
Entries 87
Mean 114.1
Std Dev 0

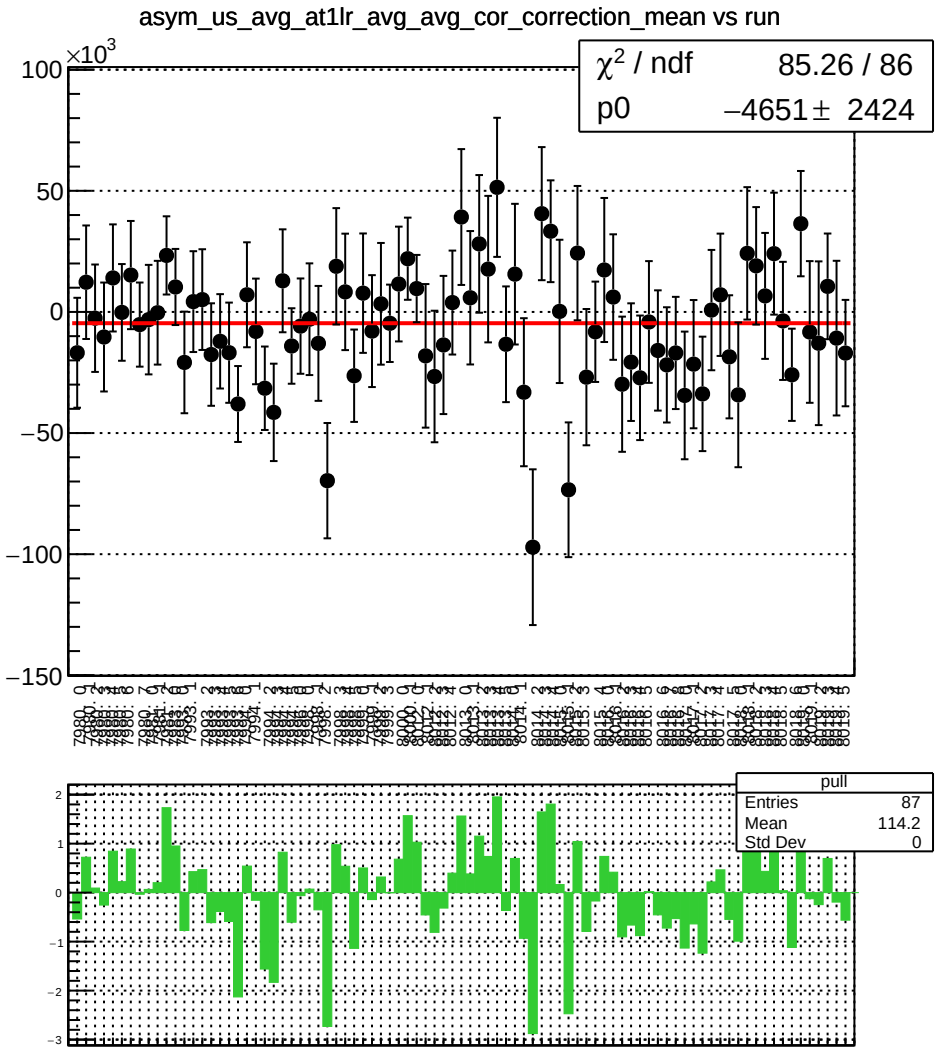

pull1D
Entries 87
Mean −0.007943
Std Dev 0.9899

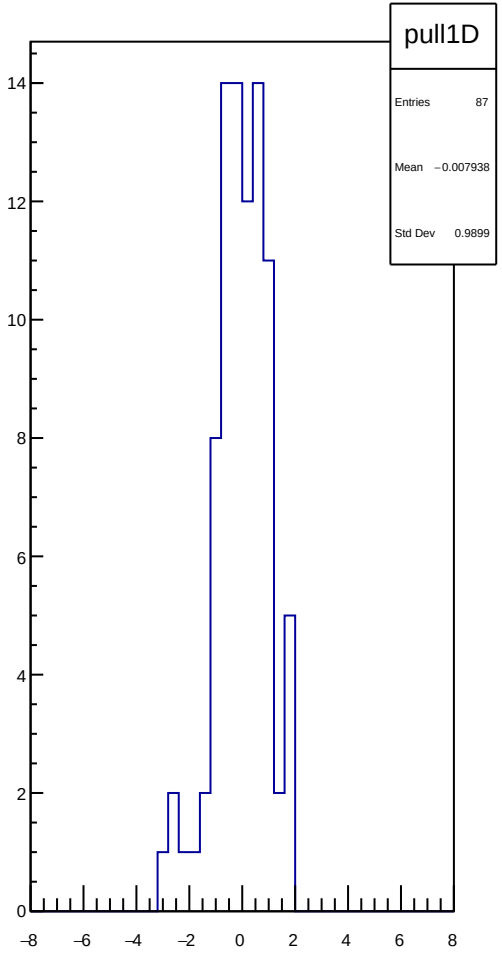

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4.003e+04 / 86
p0 2248 ± 1.714
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

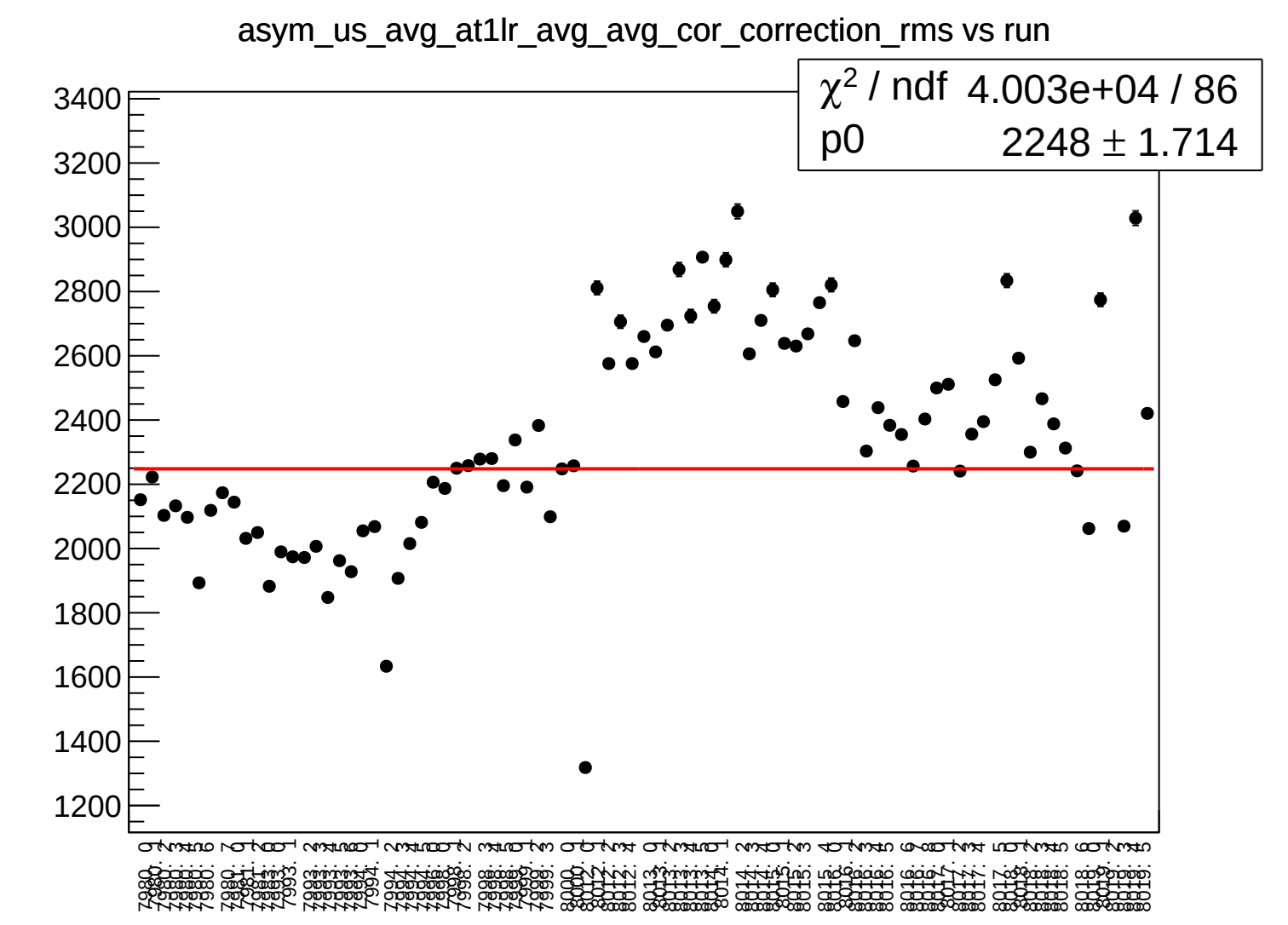

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 83.29 / 86
p0 1327 ± 2343
pull
Entries 87
Mean 298.2
Std Dev 0

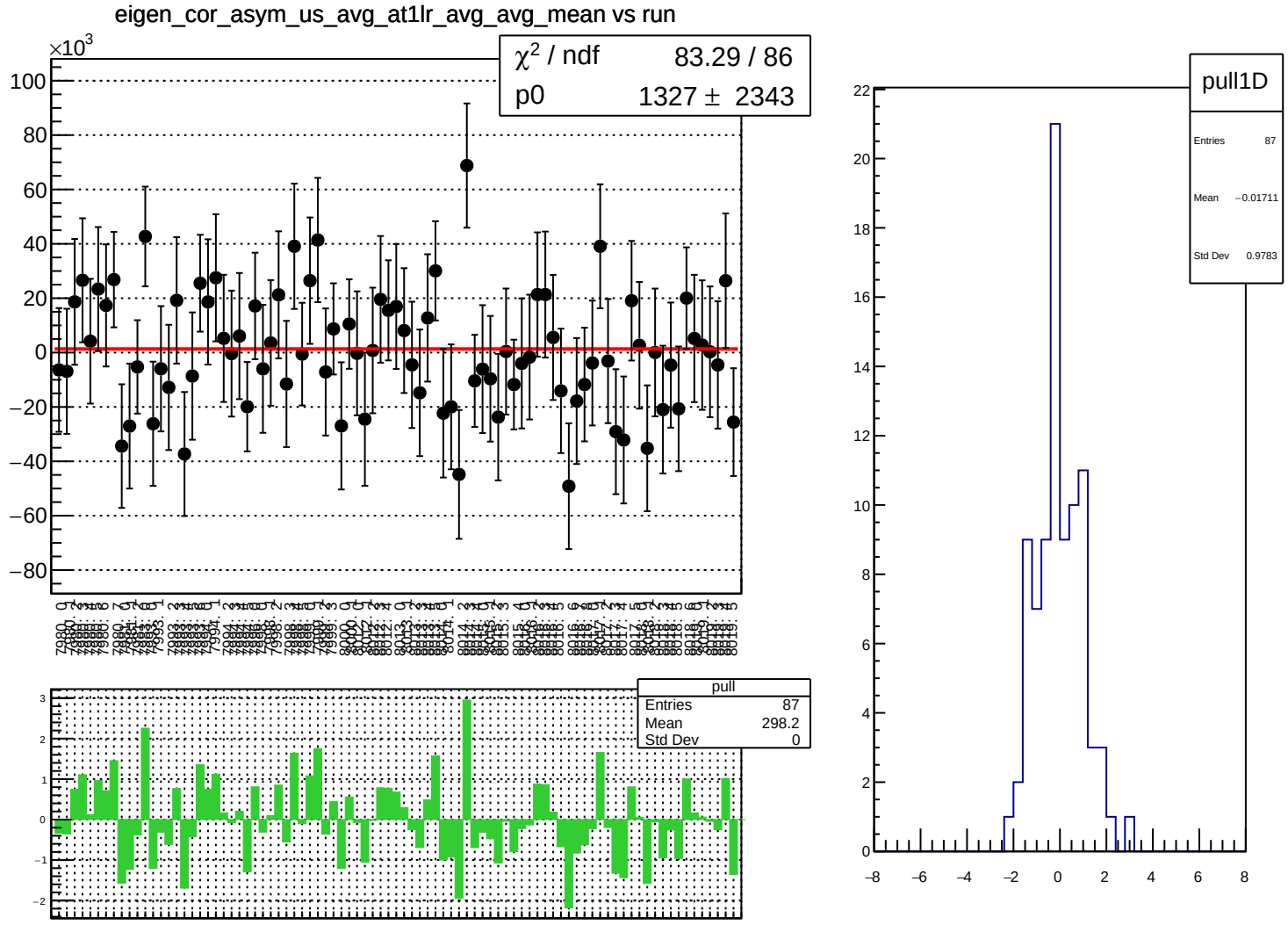

pull1D
Entries 87
Mean −0.01711
Std Dev 0.9783

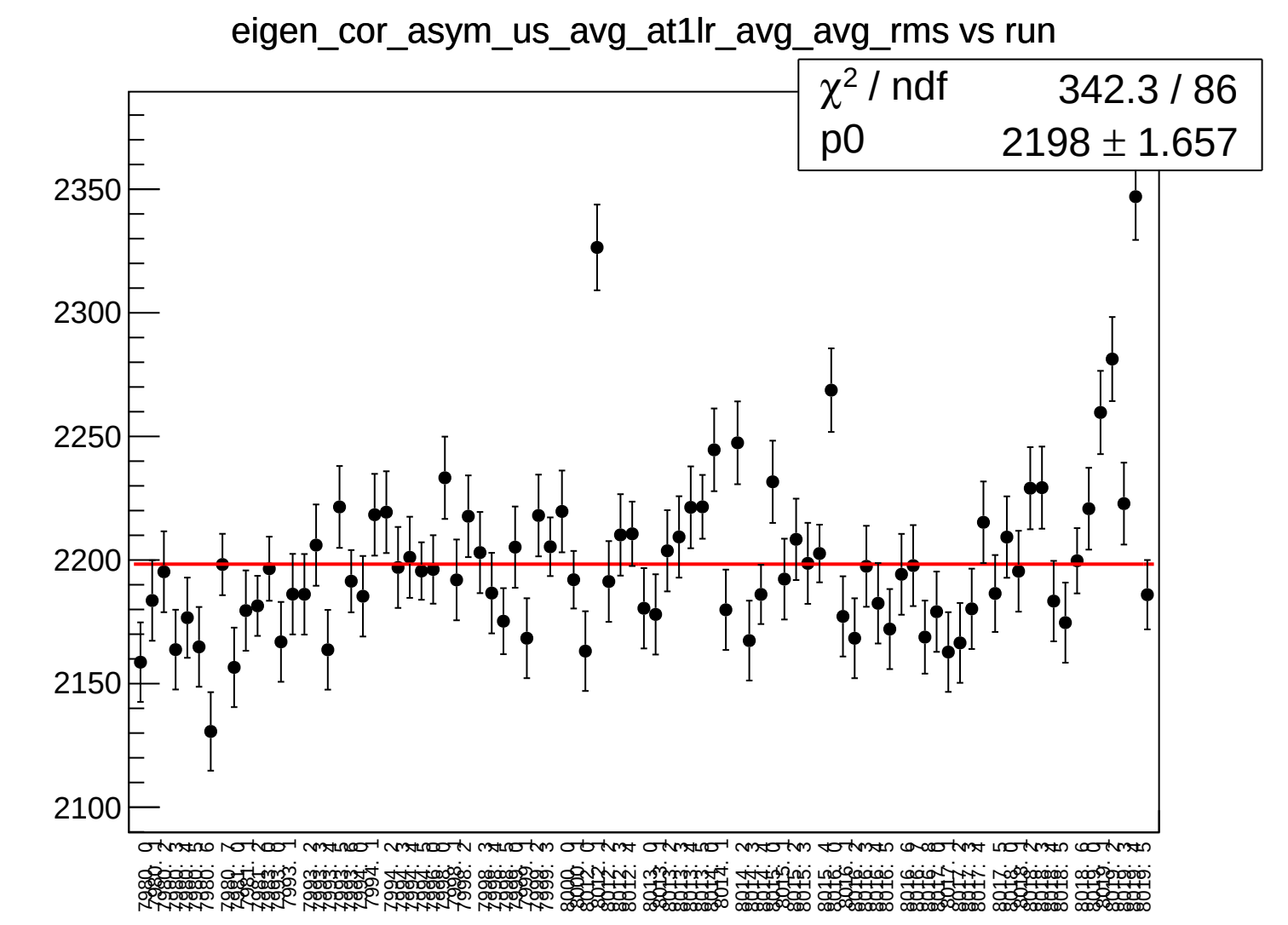

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 342.3 / 86
p0 2198 ± 1.657
2350
2300
2250
2200
2150
2100

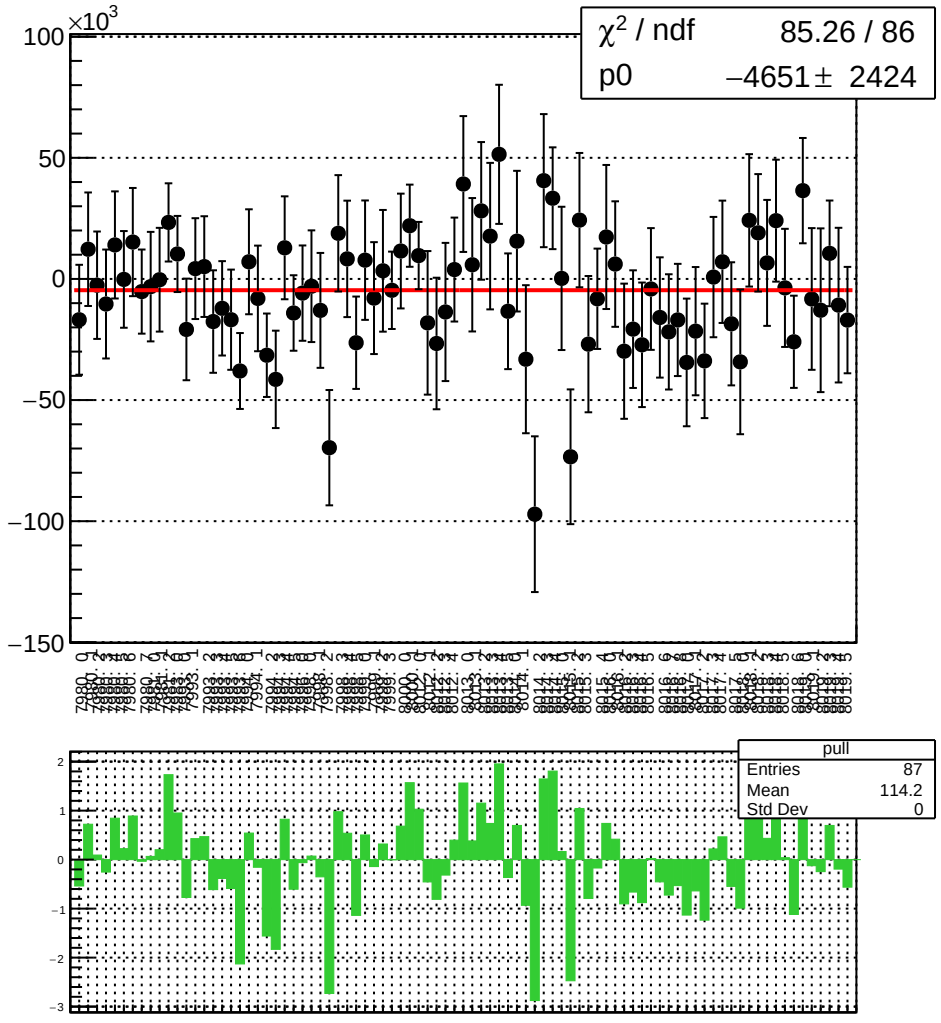

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.26 / 86
p0 −4651 ± 2424
pull
Entries 87
Mean 114.2
Std Dev 0

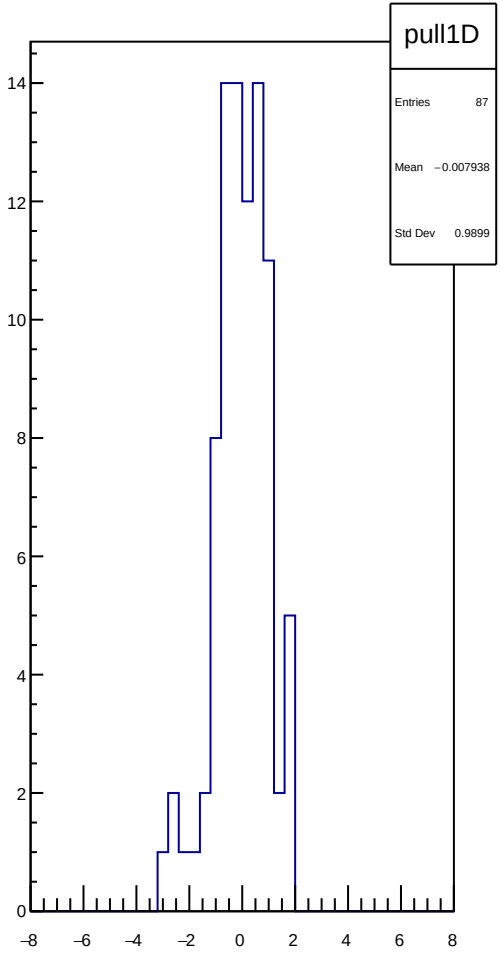

pull1D
Entries 87
Mean −0.007938
Std Dev 0.9899

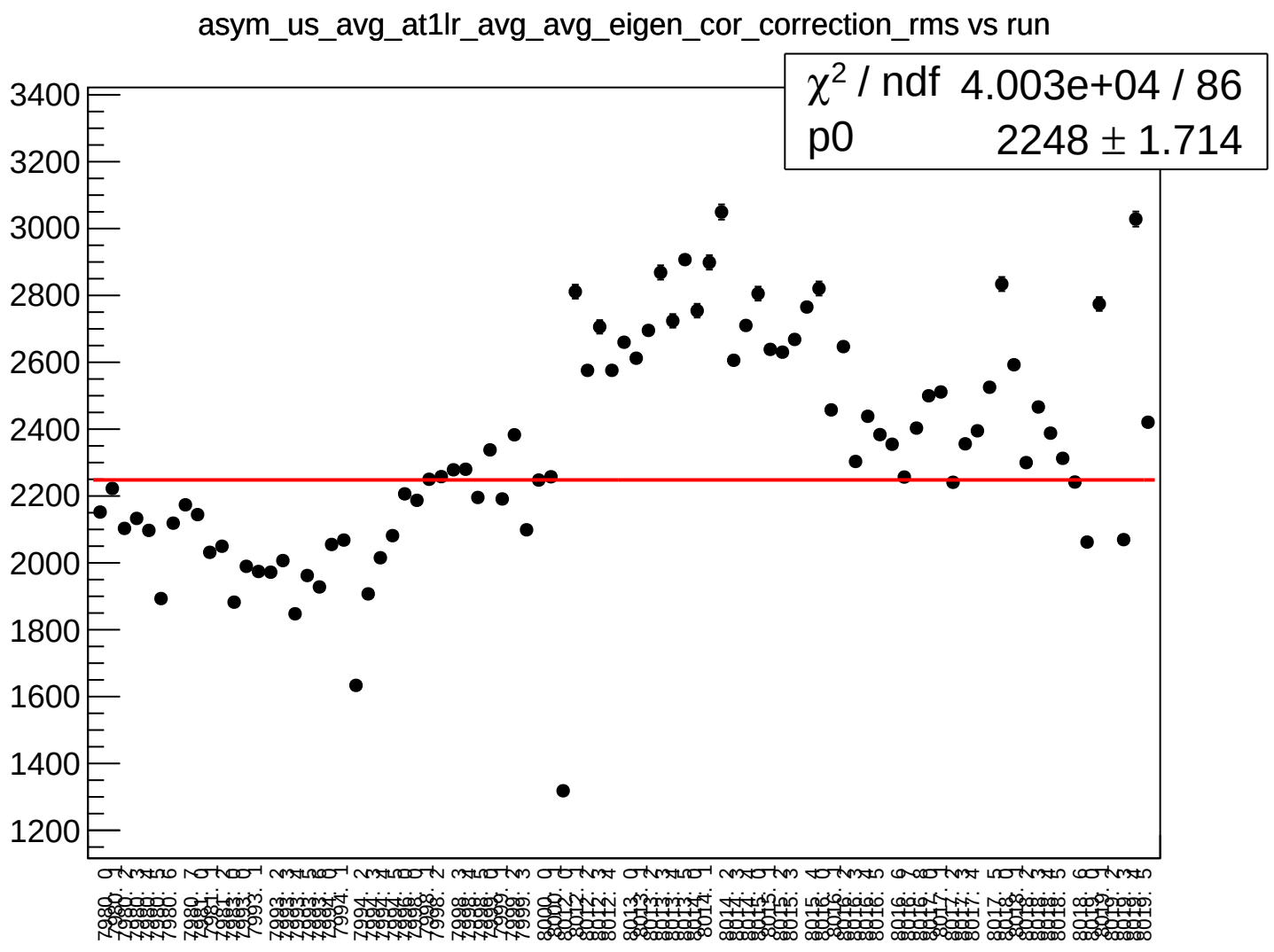

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4.003e+04 / 86
p0 2248 ± 1.714
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

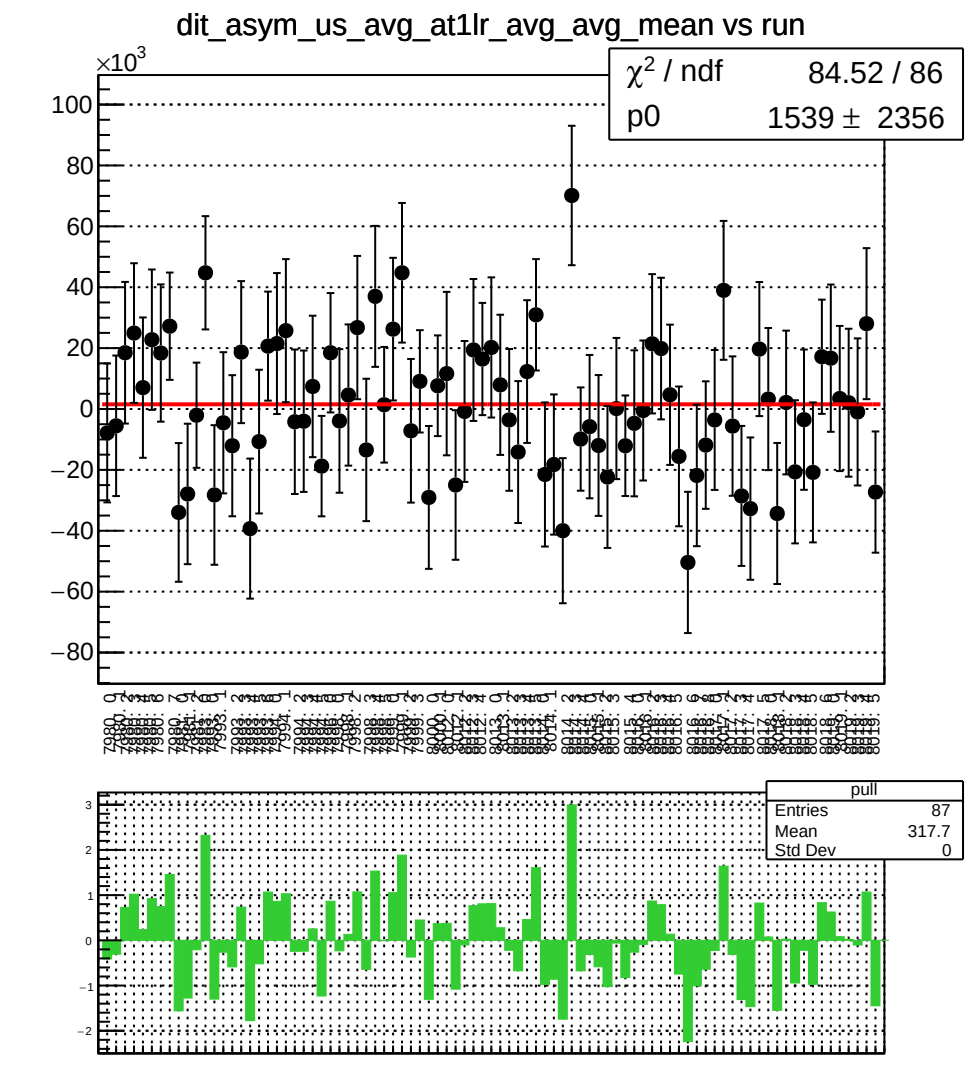

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 83.29 / 86
p0 1327 ± 2343
pull
Entries 87
Mean 298.2
Std Dev 0
pull1D
Entries 87
Mean −0.01711
Std Dev 0.9783

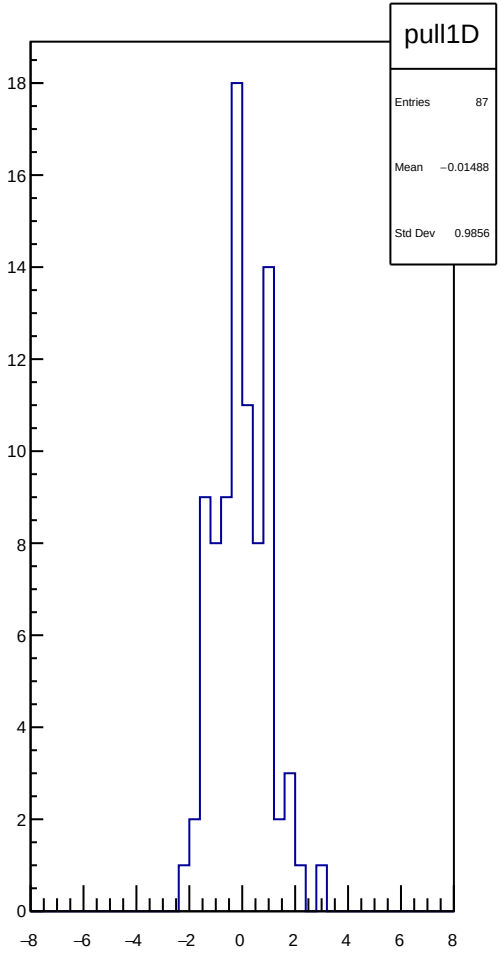

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 342.3 / 86
p0 2198 ± 1.657
2350
2300
2250
2200
2150
2100

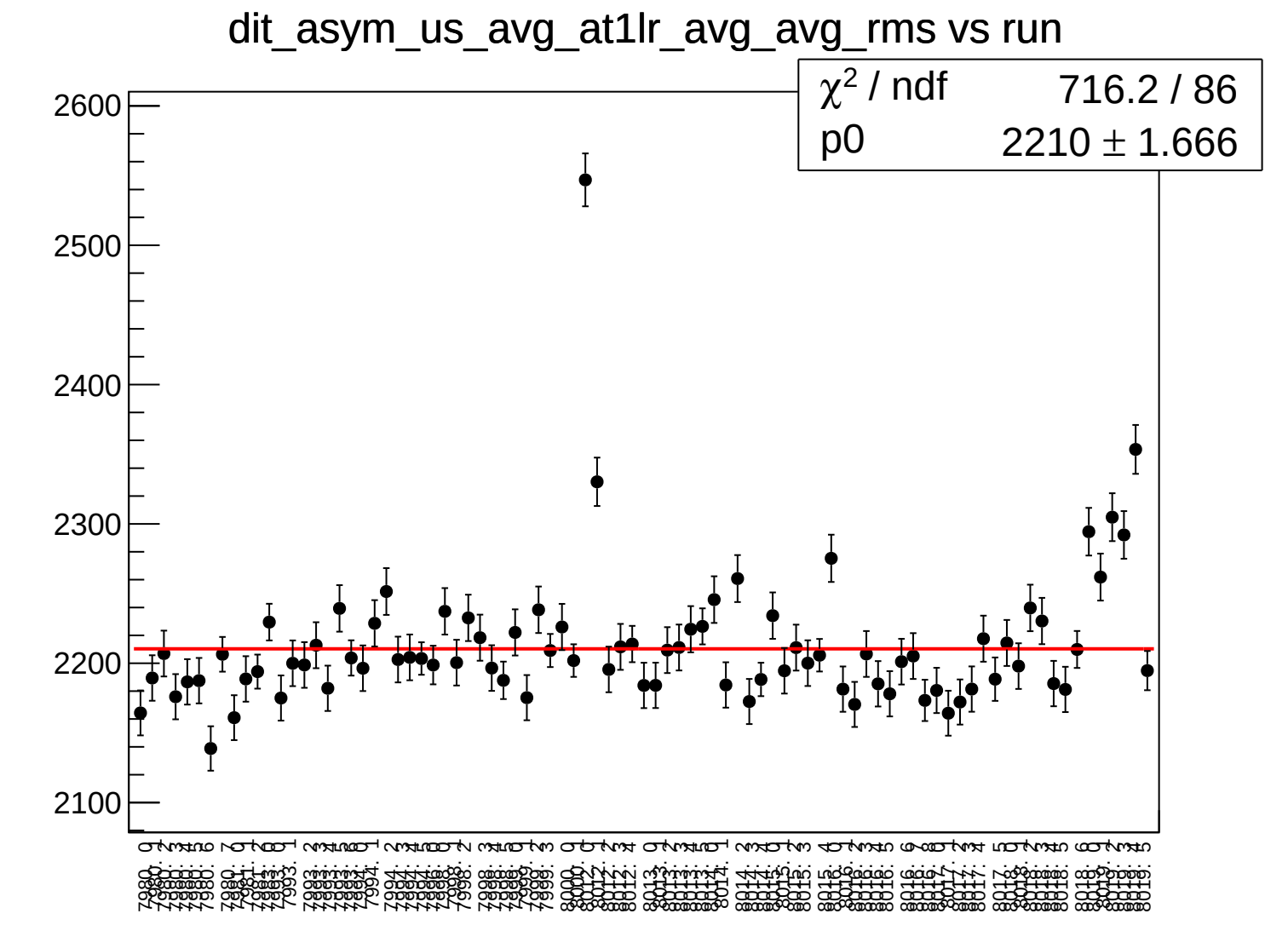

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.26 / 86
p0 −4651 ± 2424
pull
Entries 87
Mean 114.2
Std Dev 0

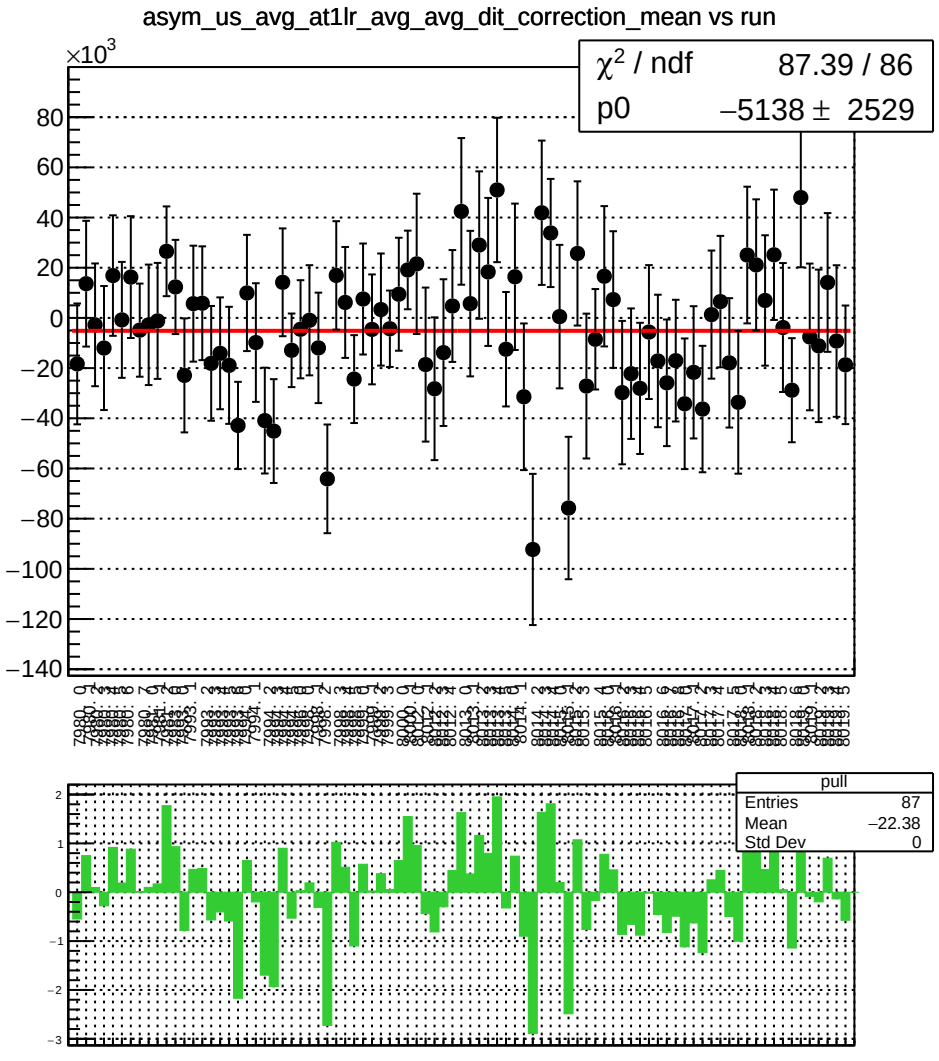

pull1D
Entries 87
Mean −0.007938
Std Dev 0.9899

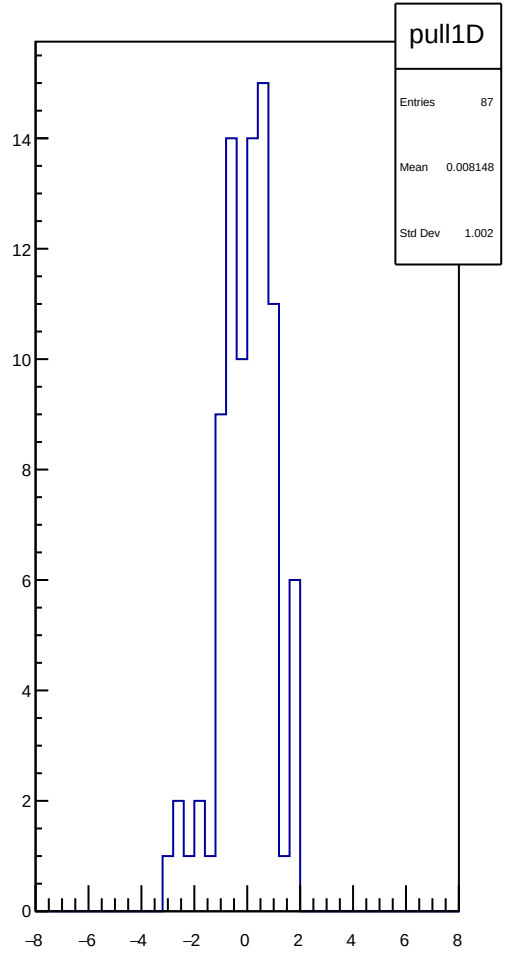

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.003e+04 / 86
p0 2248 ± 1.714
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

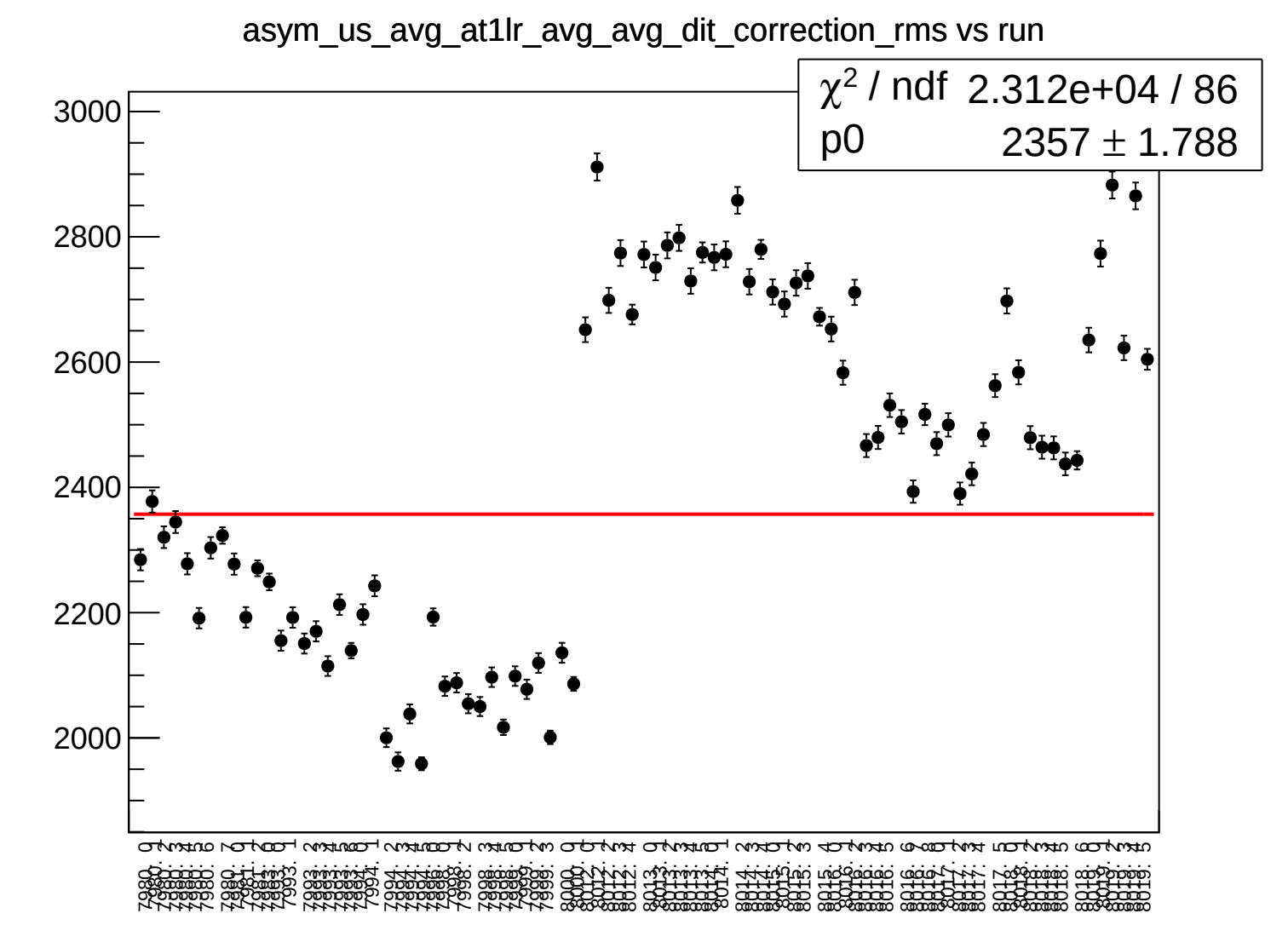

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 84.52 / 86
p0 1539 ± 2356
pull
Entries 87
Mean 317.7
Std Dev 0

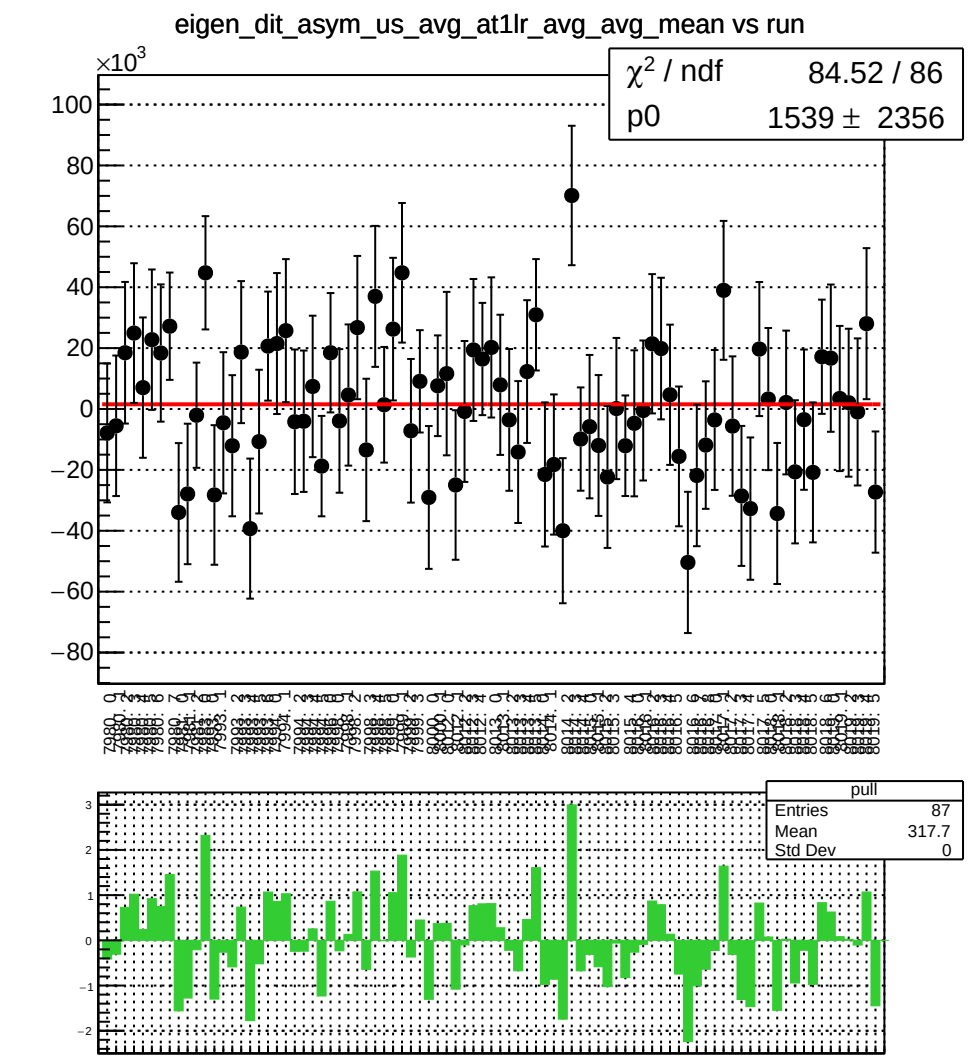

pull1D
Entries 87
Mean −0.01488
Std Dev 0.9856

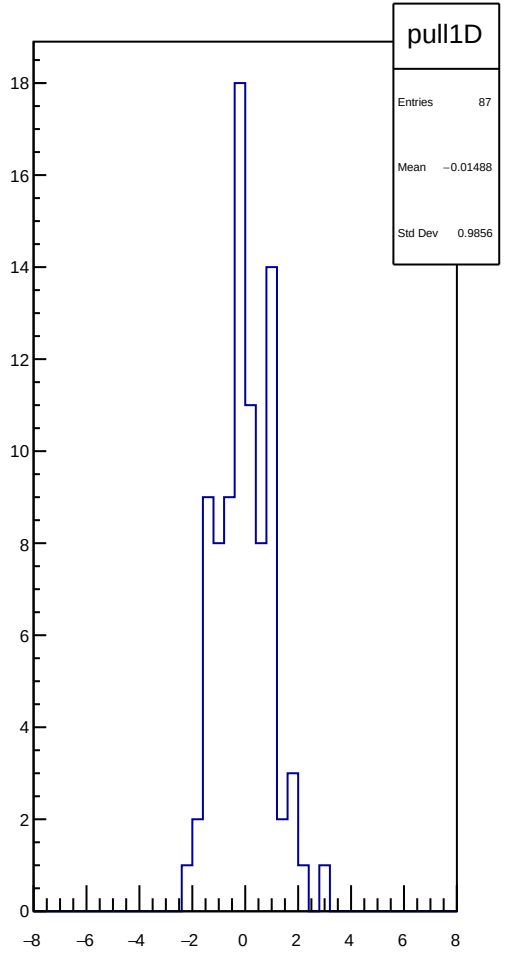

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 716.2 / 86
p0 2210 ± 1.666
2600
2500
2400
2300
2200
2100

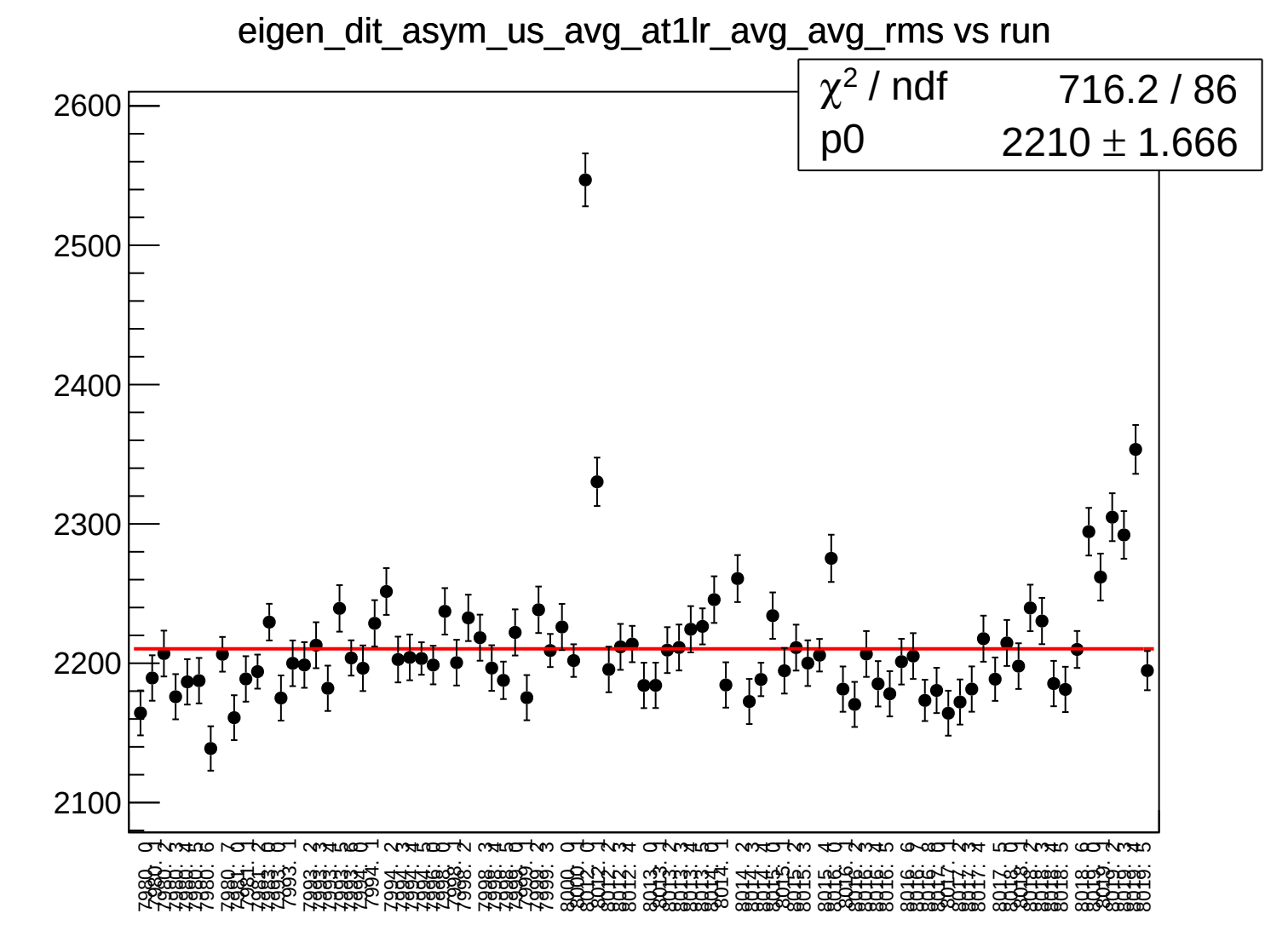

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.39 / 86
p0 −5138 ± 2529
pull
Entries 87
Mean −22.38
Std Dev 0

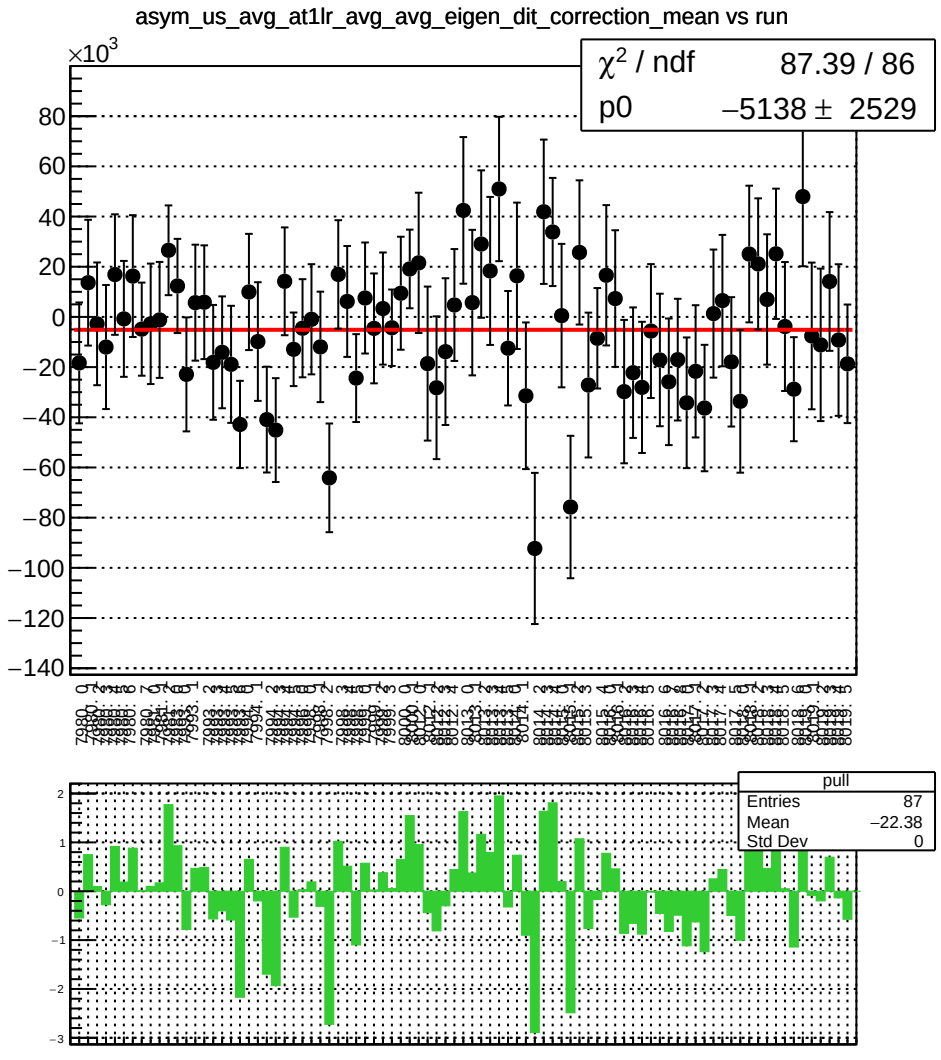

pull1D
Entries 87
Mean 0.008148
Std Dev 1.002

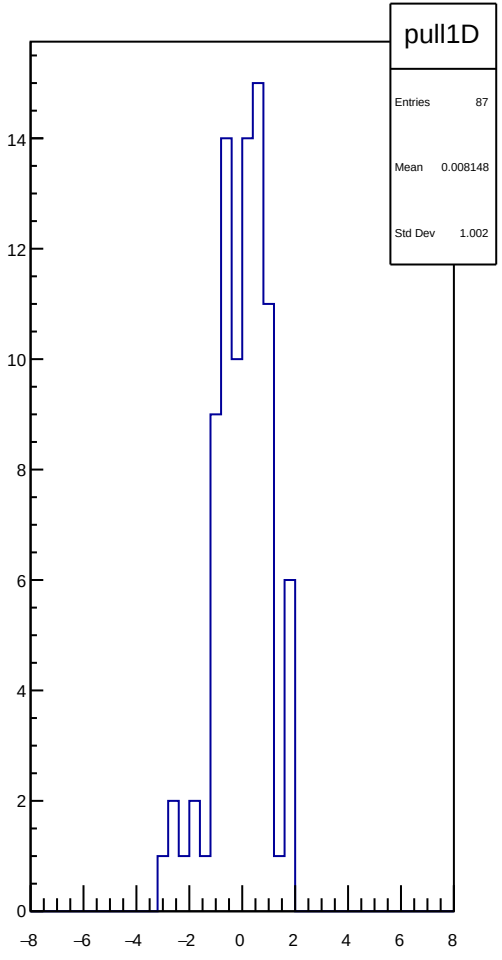

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.312e+04 / 86
p0 2357 ± 1.788
3000
2800
2600
2400
2200
2000

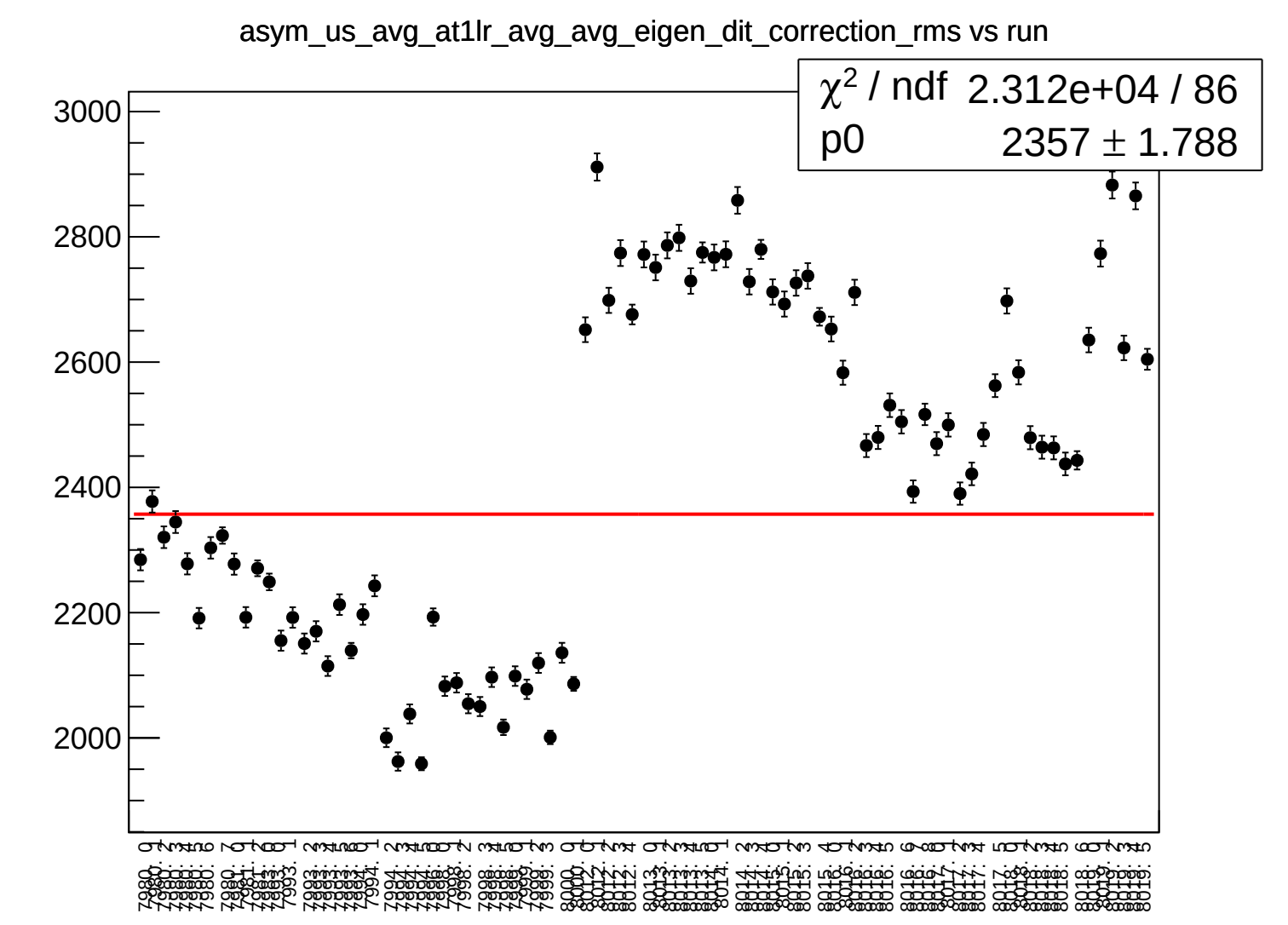

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 84.52 / 86
p0 1539 ± 2356
pull
Entries 87
Mean 317.7
Std Dev 0

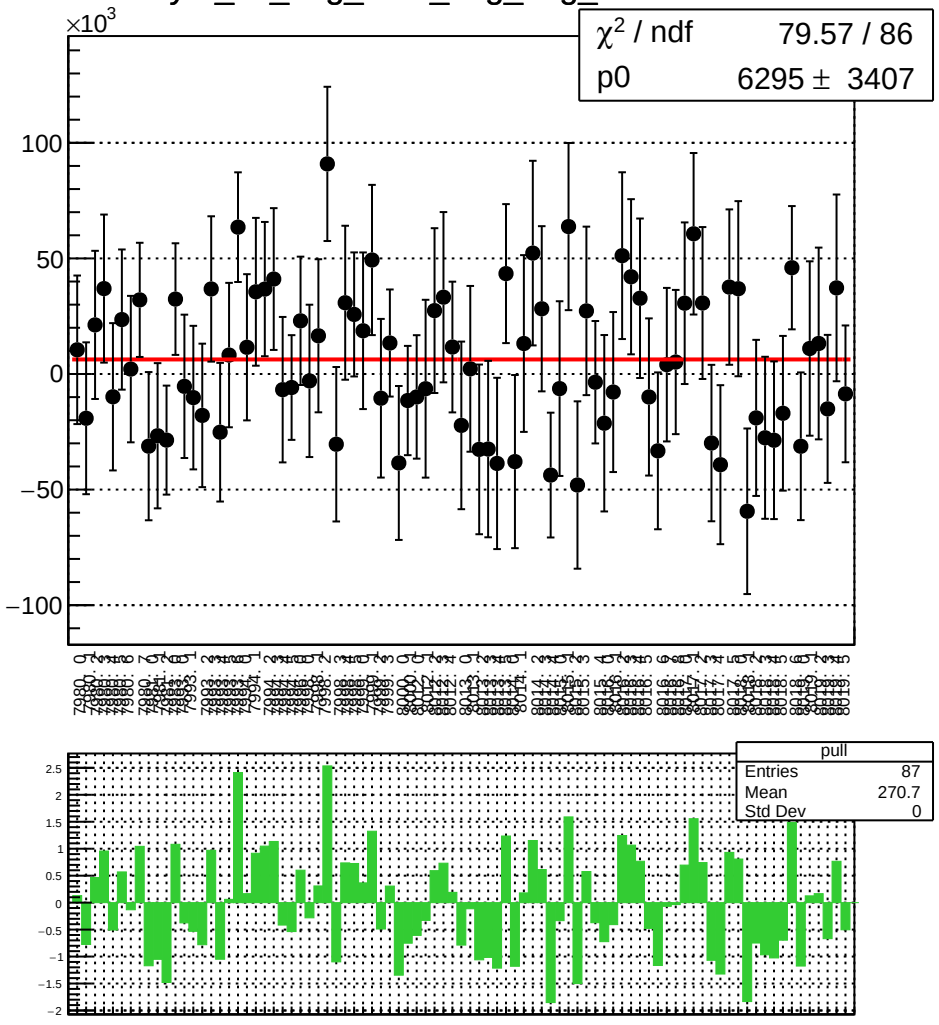

pull1D
Entries 87
Mean −0.01488
Std Dev 0.9856

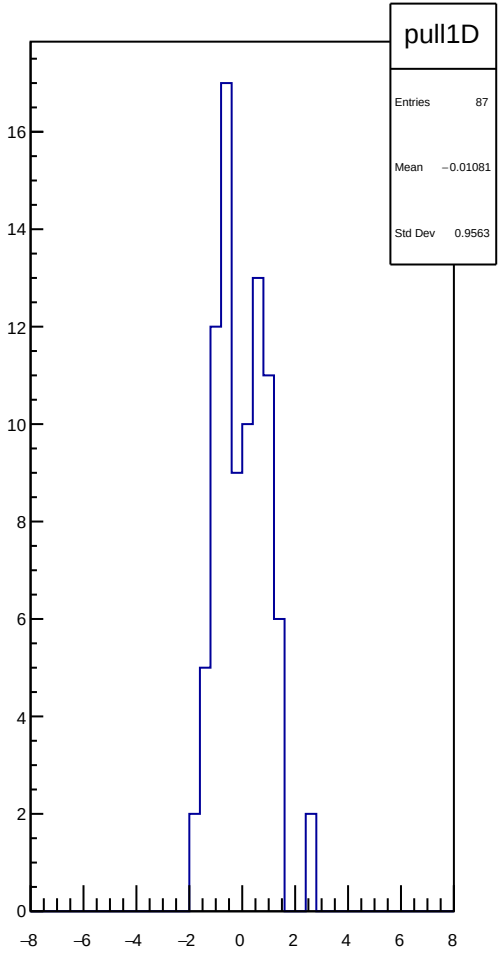

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 716.2 / 86
p0 2210 ± 1.666
2600
2500
2400
2300
2200
2100

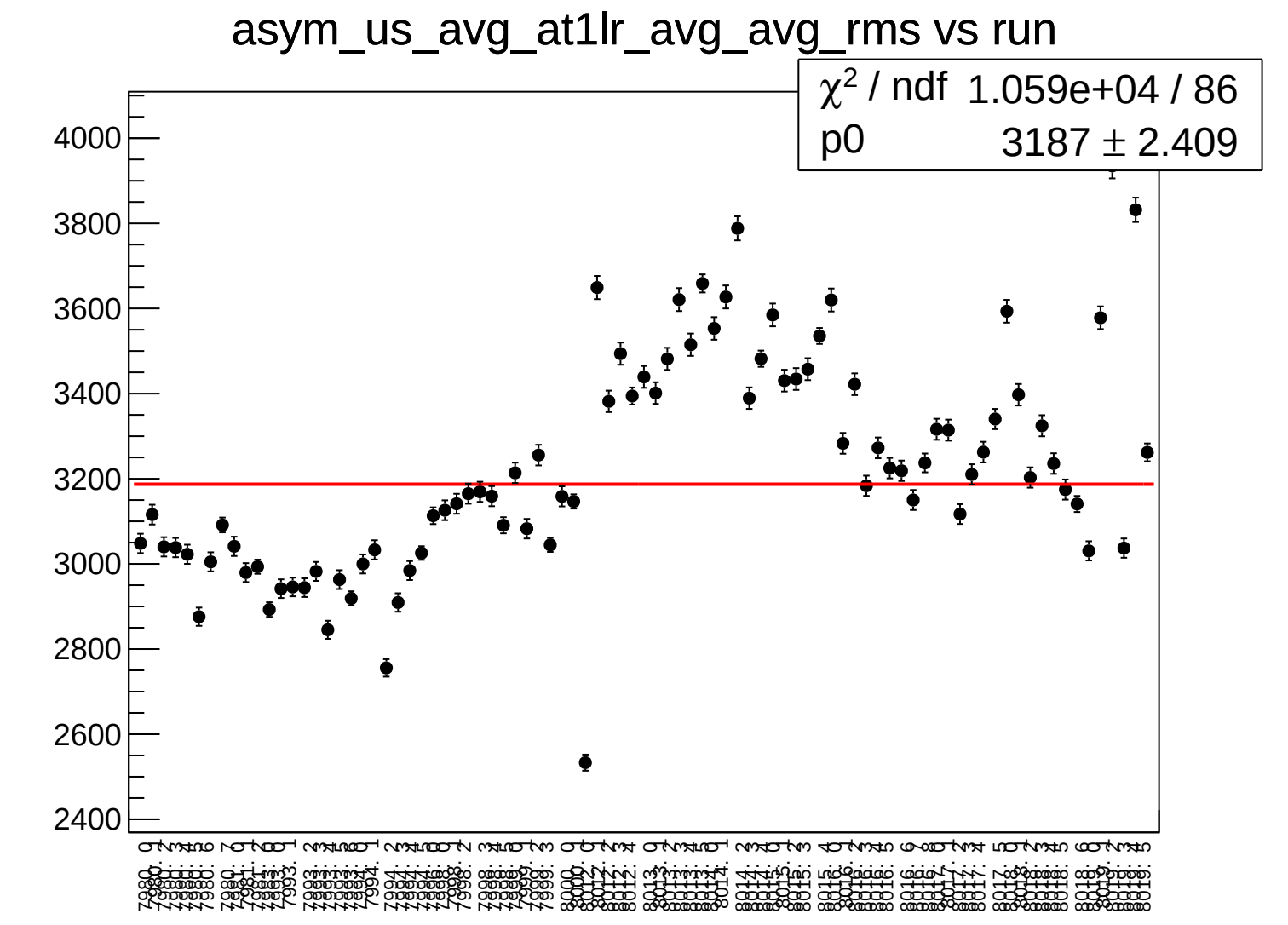

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.39 / 86
p0 −5138 ± 2529
pull
Entries 87
Mean −22.38
Std Dev 0

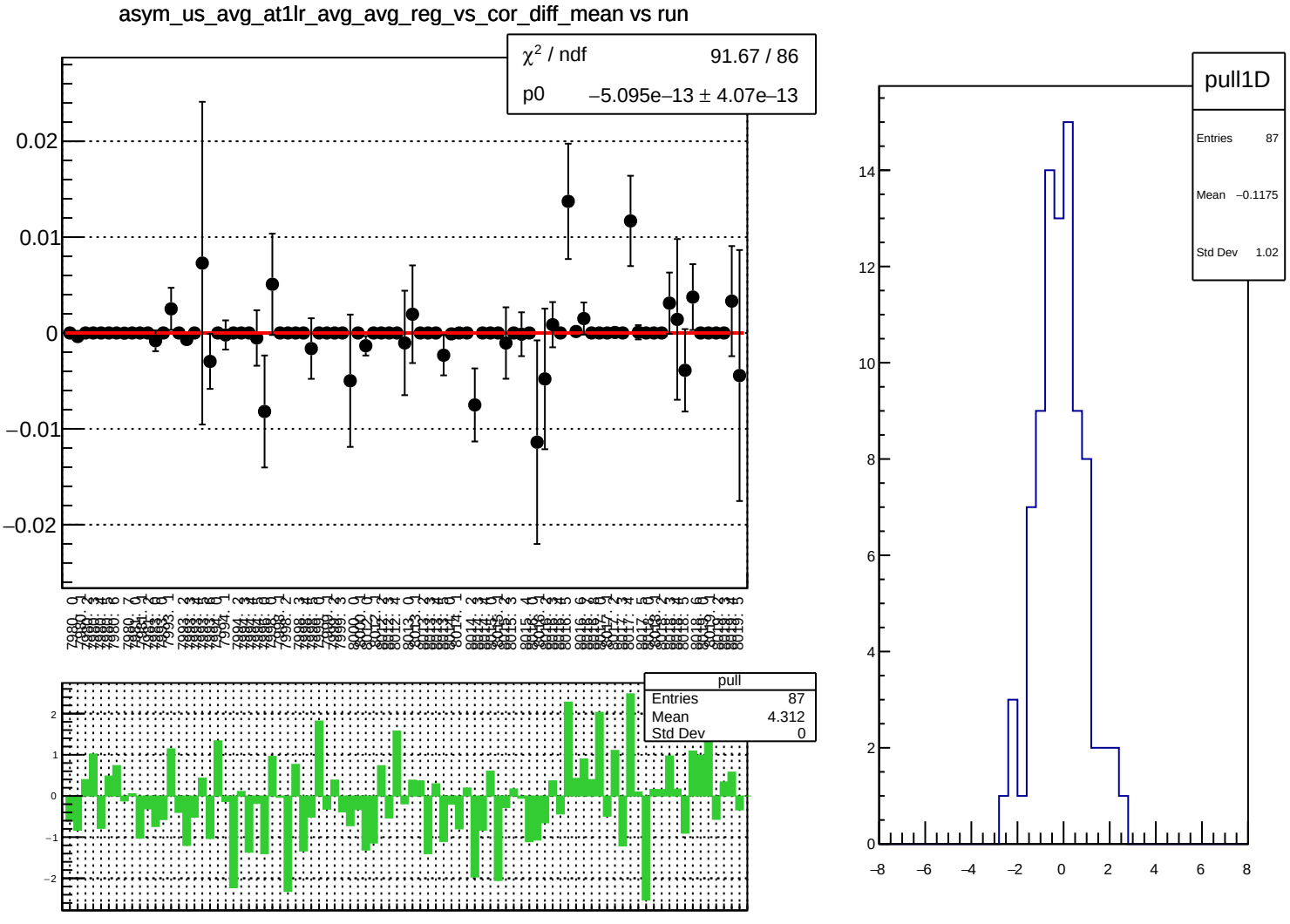

pull1D
Entries 87
Mean 0.008148
Std Dev 1.002

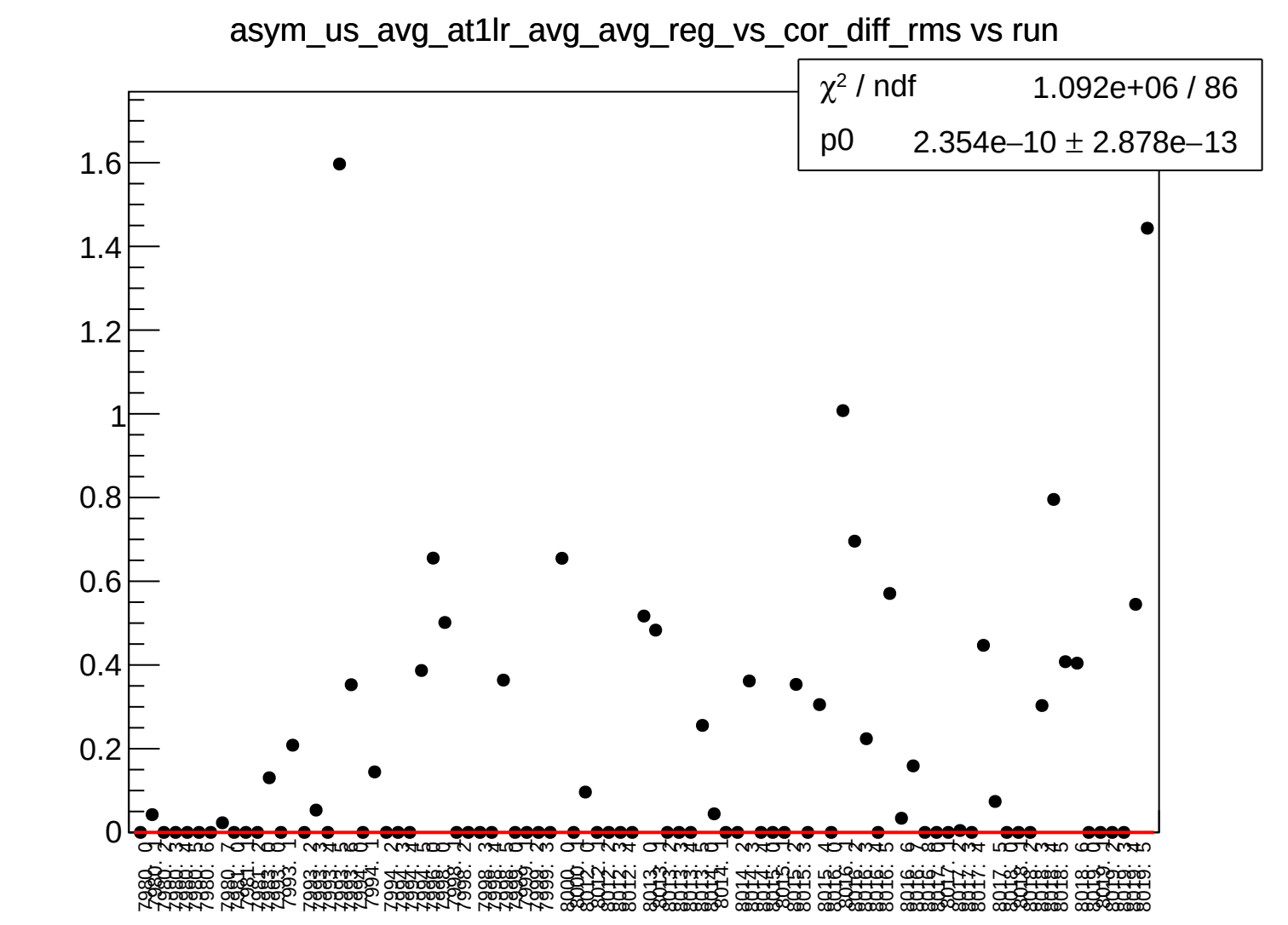

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.312e+04 / 86
p0 2357 ± 1.788
3000
2800
2600
2400
2200
2000

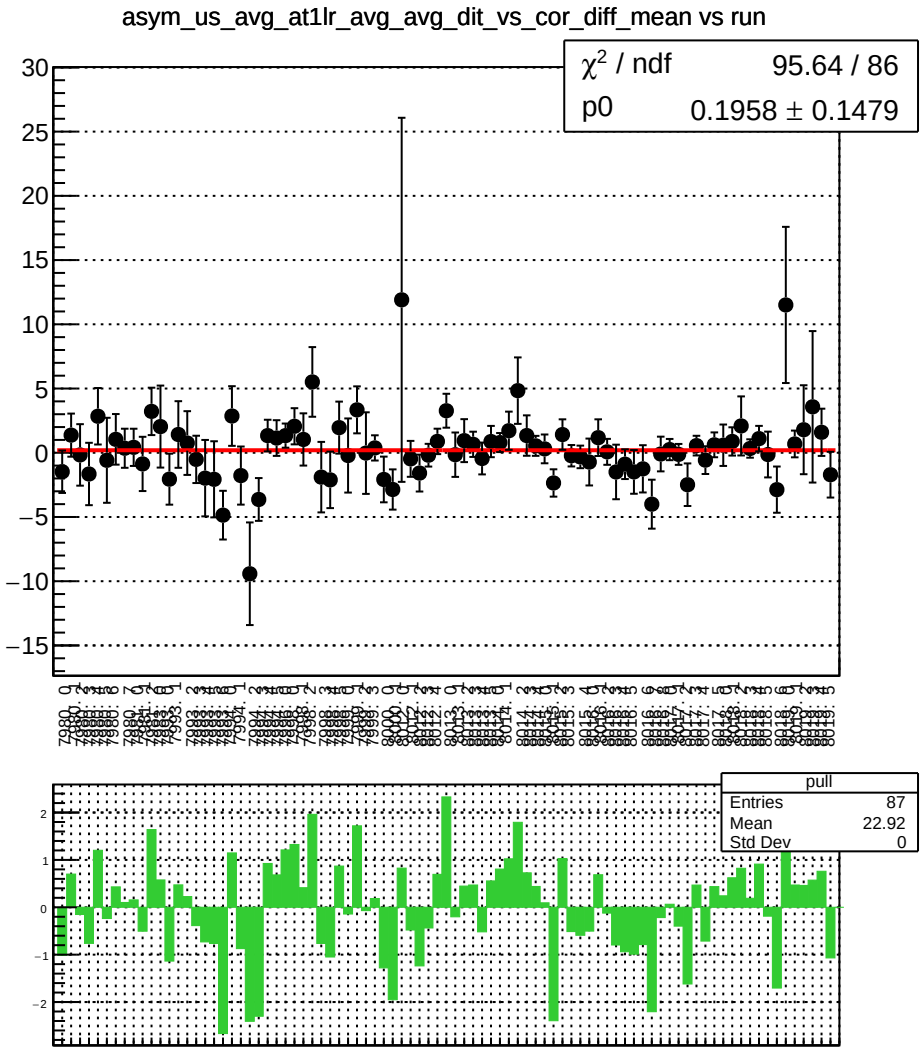

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 79.57 / 86
p0 6295 ± 3407
100
50
0
−50
−100
pull
Entries 87
Mean 270.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

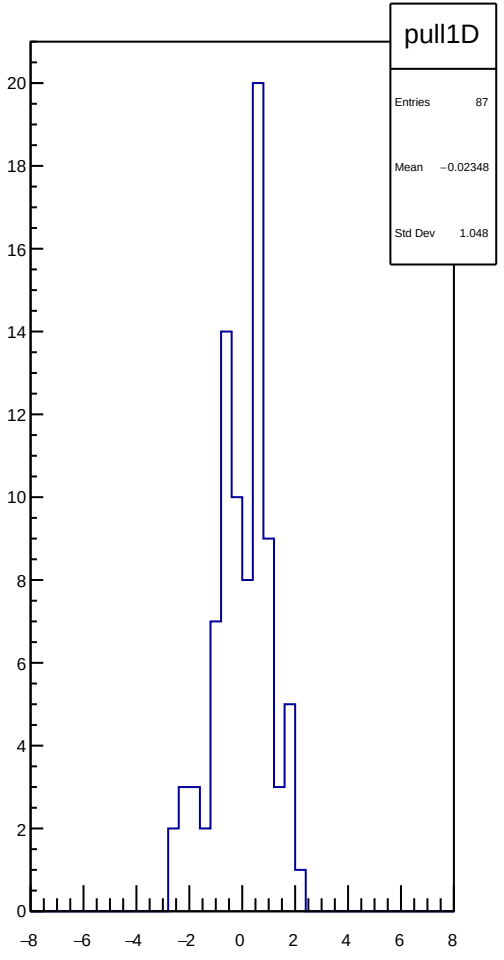

pull1D
Entries 87
Mean −0.01081
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

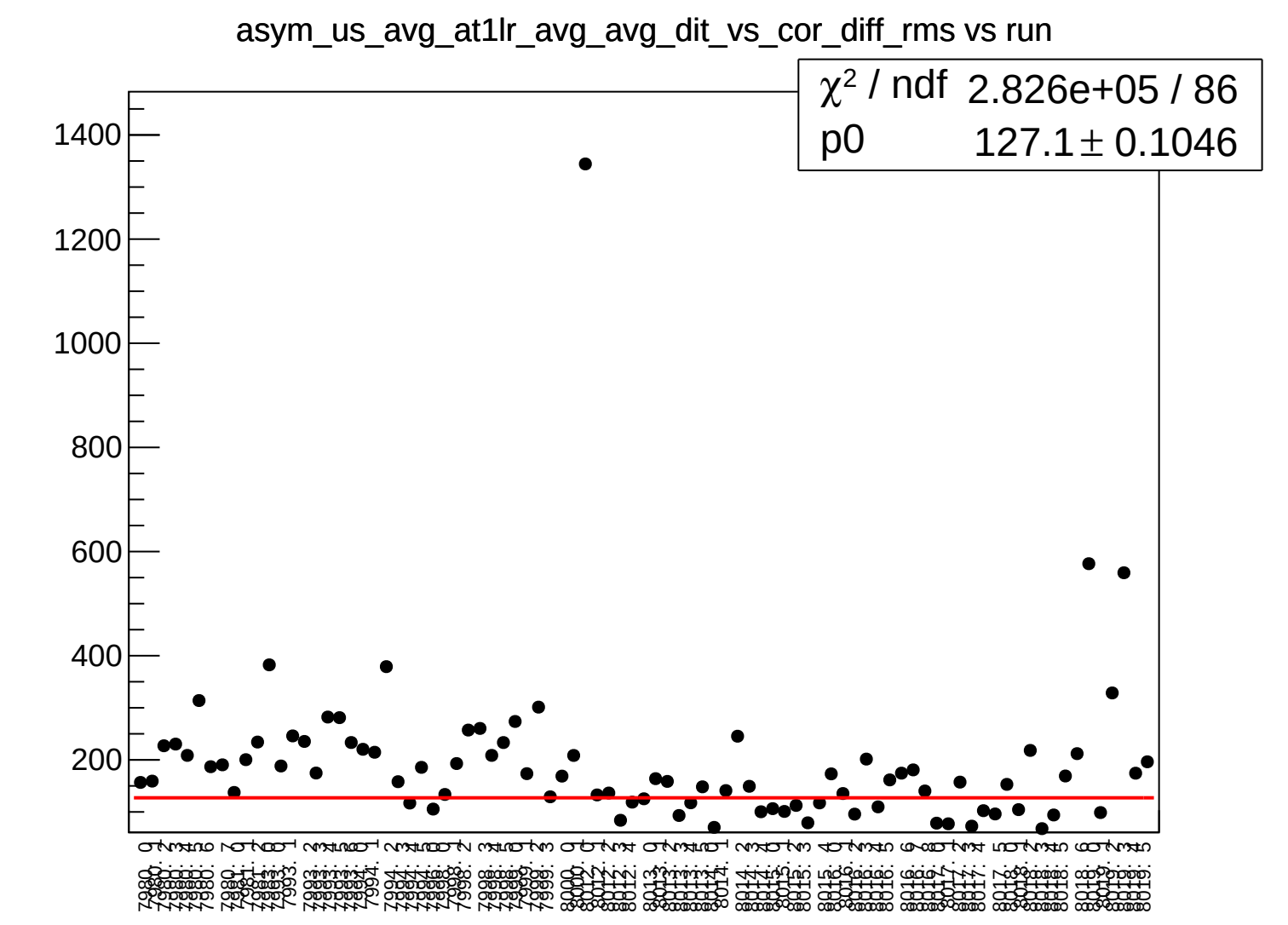

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1.059e+04 / 86
p0 3187 ± 2.409
4000
3800
3600
3400
3200
3000
2800
2600
2400

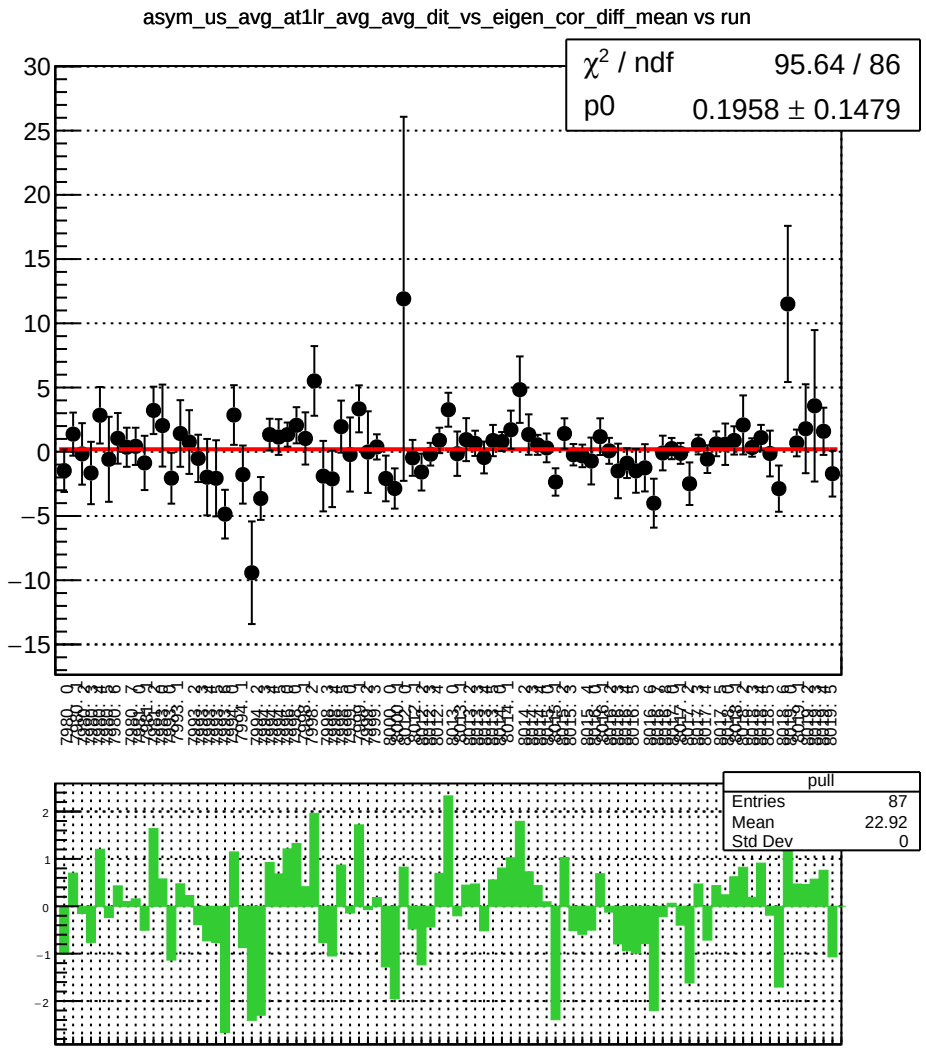

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.67 / 86
p0 −5.095e−13 ± 4.07e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 4.312
Std Dev 0
pull1D
Entries 87
Mean −0.1175
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

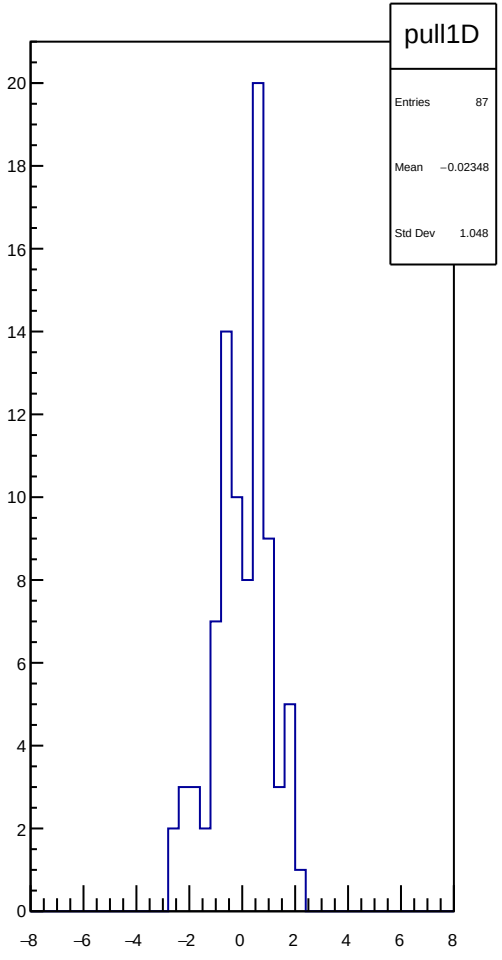

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.092e+06 / 86
p0 2.354e−10 ± 2.878e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

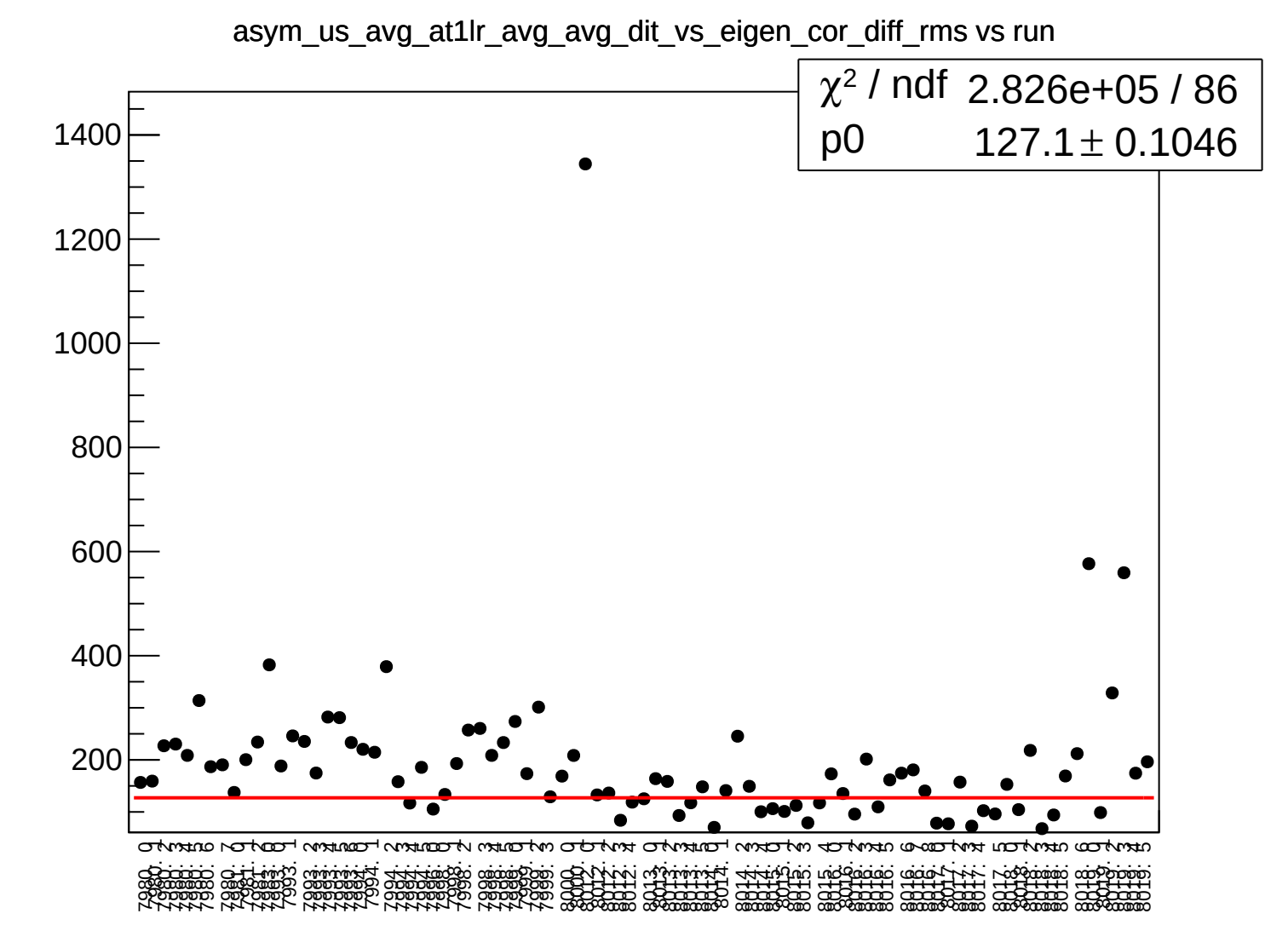

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.64 / 86
p0 0.1958 ± 0.1479
pull
Entries 87
Mean 22.92
Std Dev 0

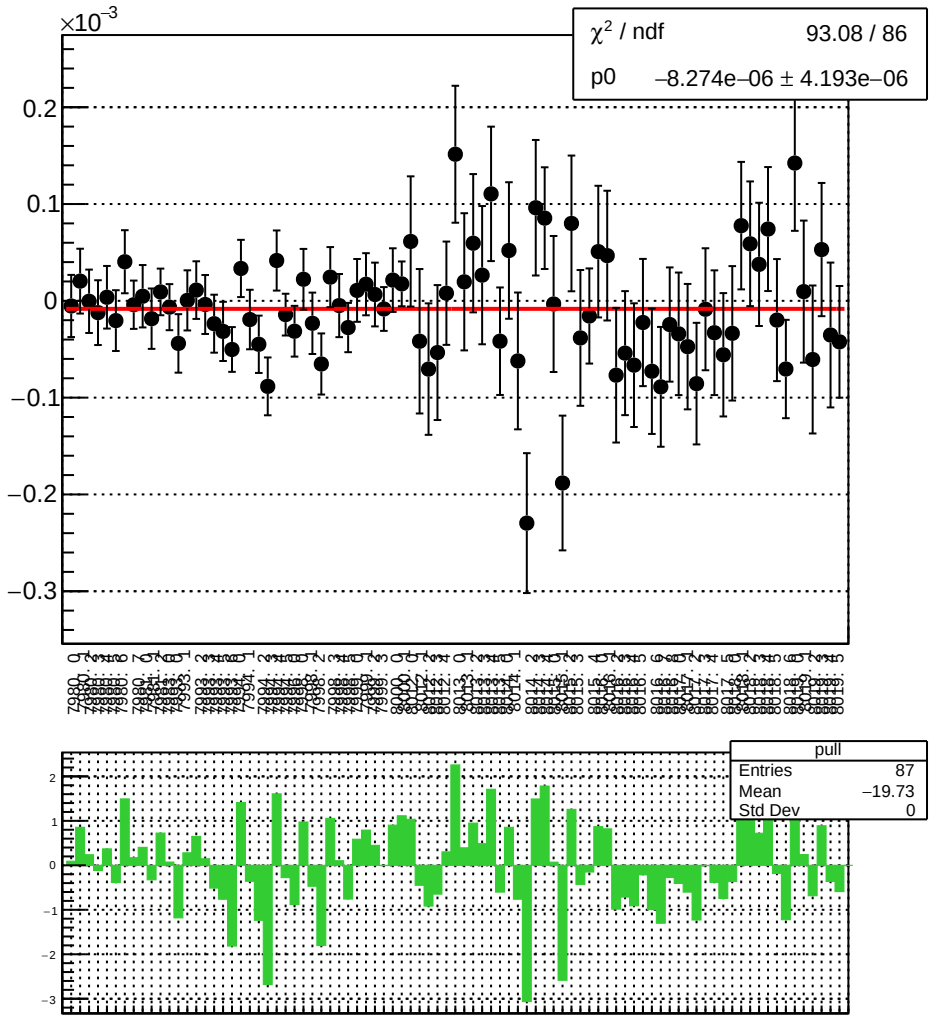

pull1D
Entries 87
Mean −0.02348
Std Dev 1.048

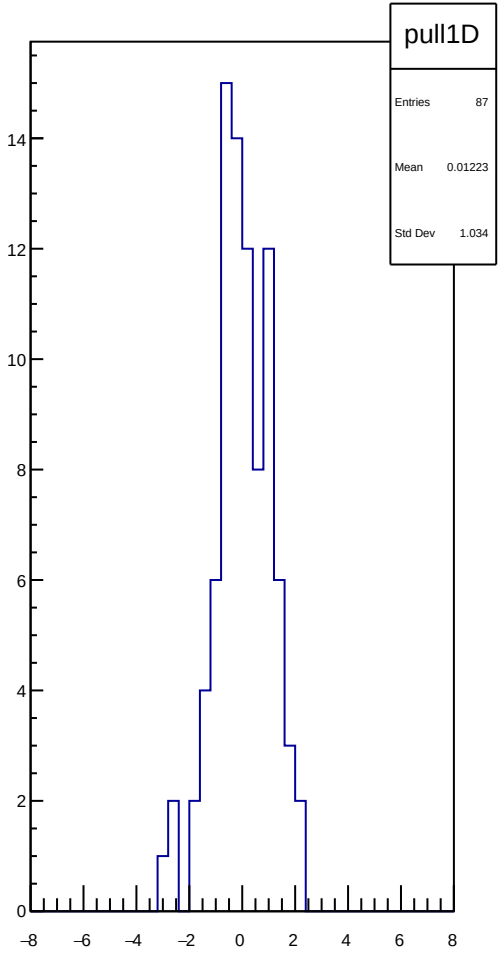

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.826e+05 / 86
p0 127.1 ± 0.1046
1400
1200
1000
800
600
400
200

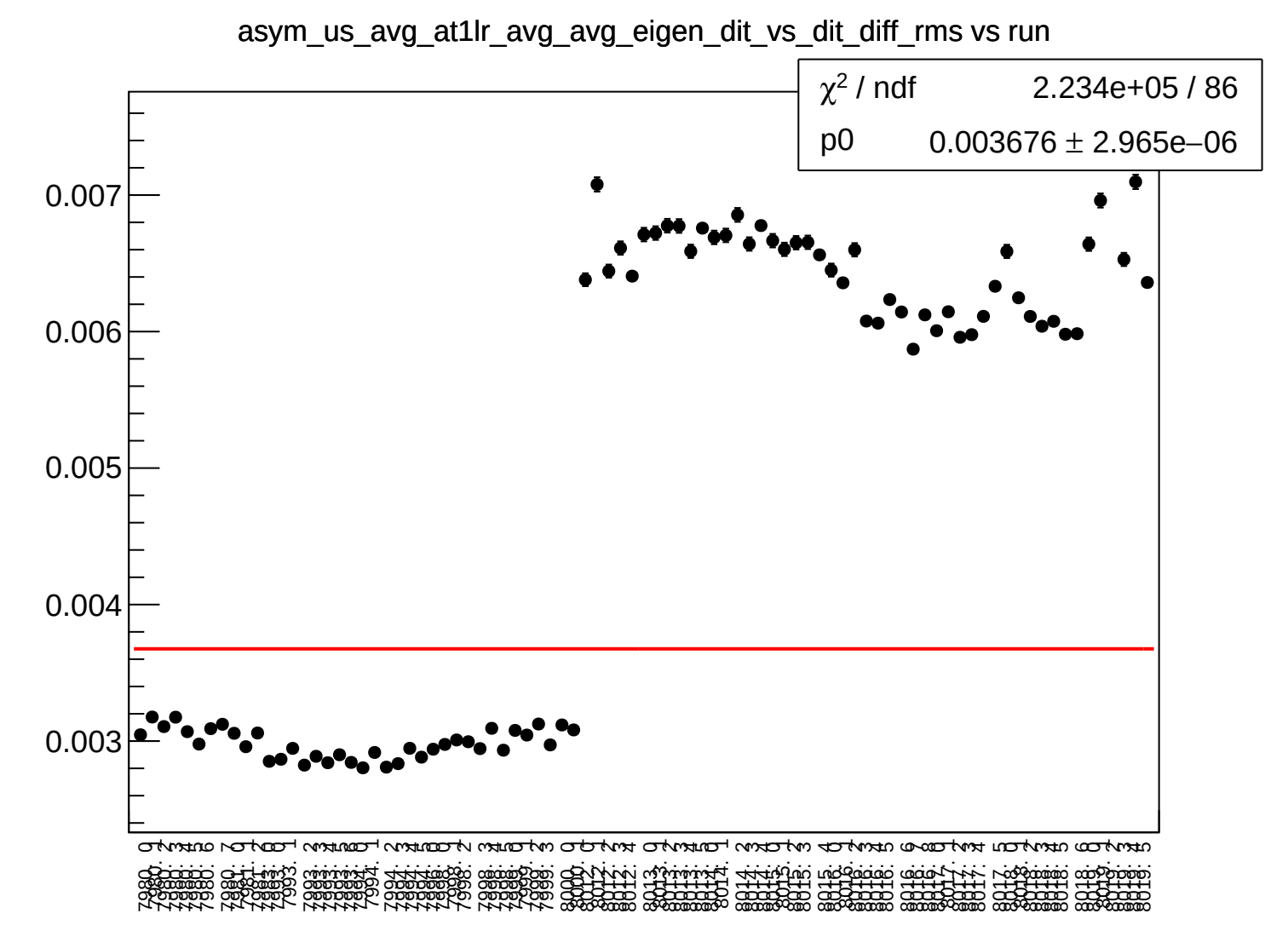

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.64 / 86
p0 0.1958 ± 0.1479
pull
Entries 87
Mean 22.92
Std Dev 0

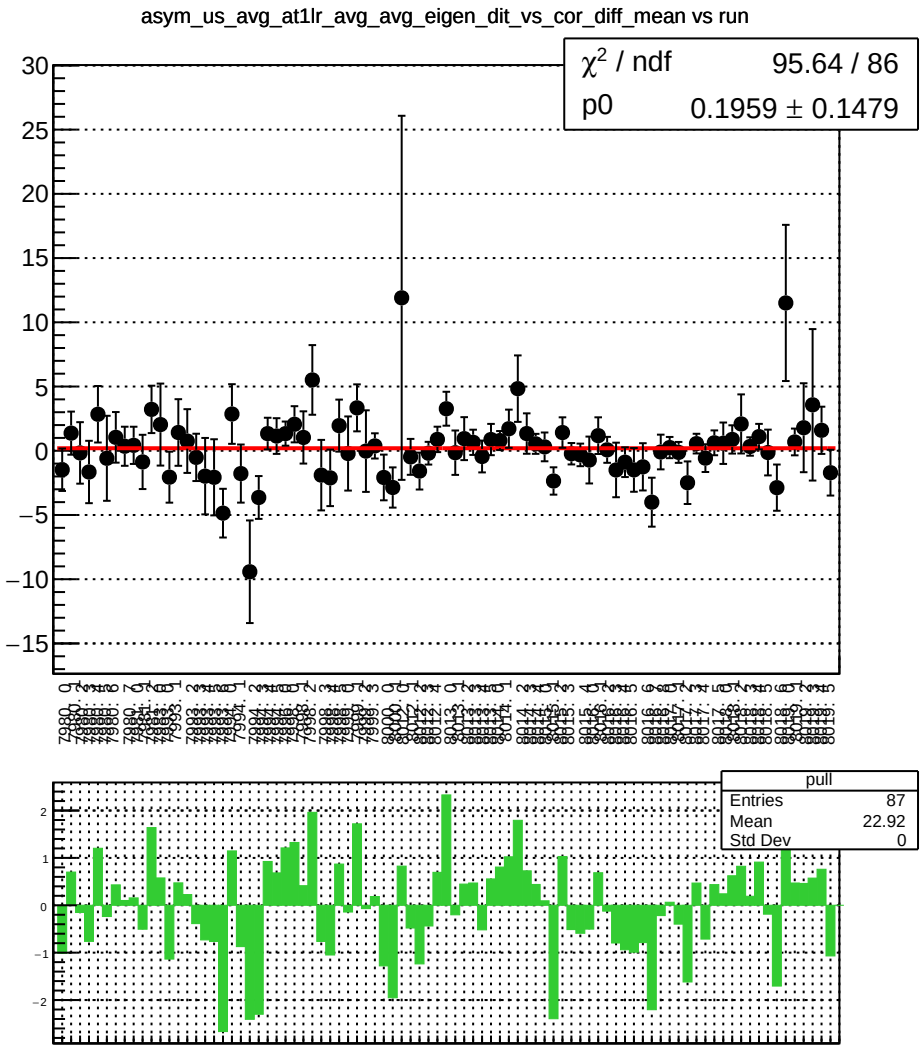

pull1D
Entries 87
Mean −0.02348
Std Dev 1.048

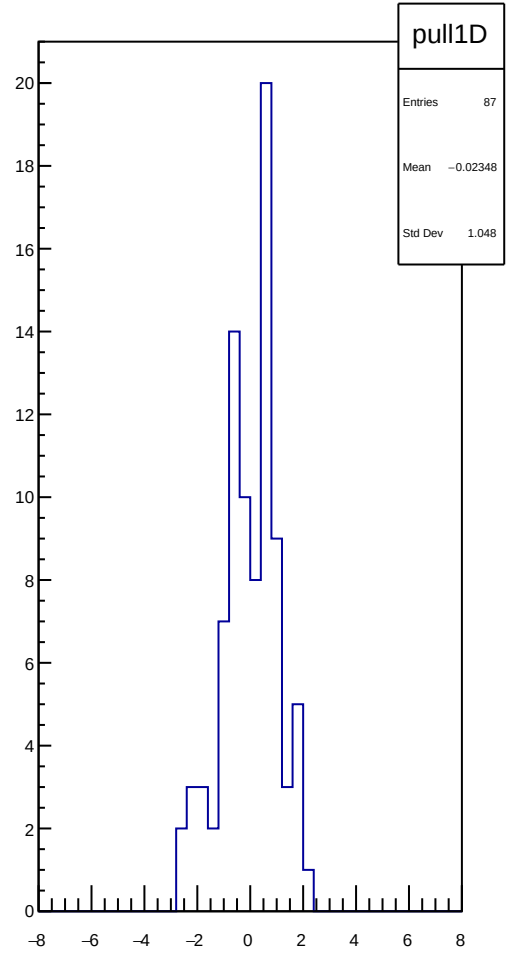

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.826e+05 / 86
p0 127.1 ± 0.1046
1400
1200
1000
800
600
400
200

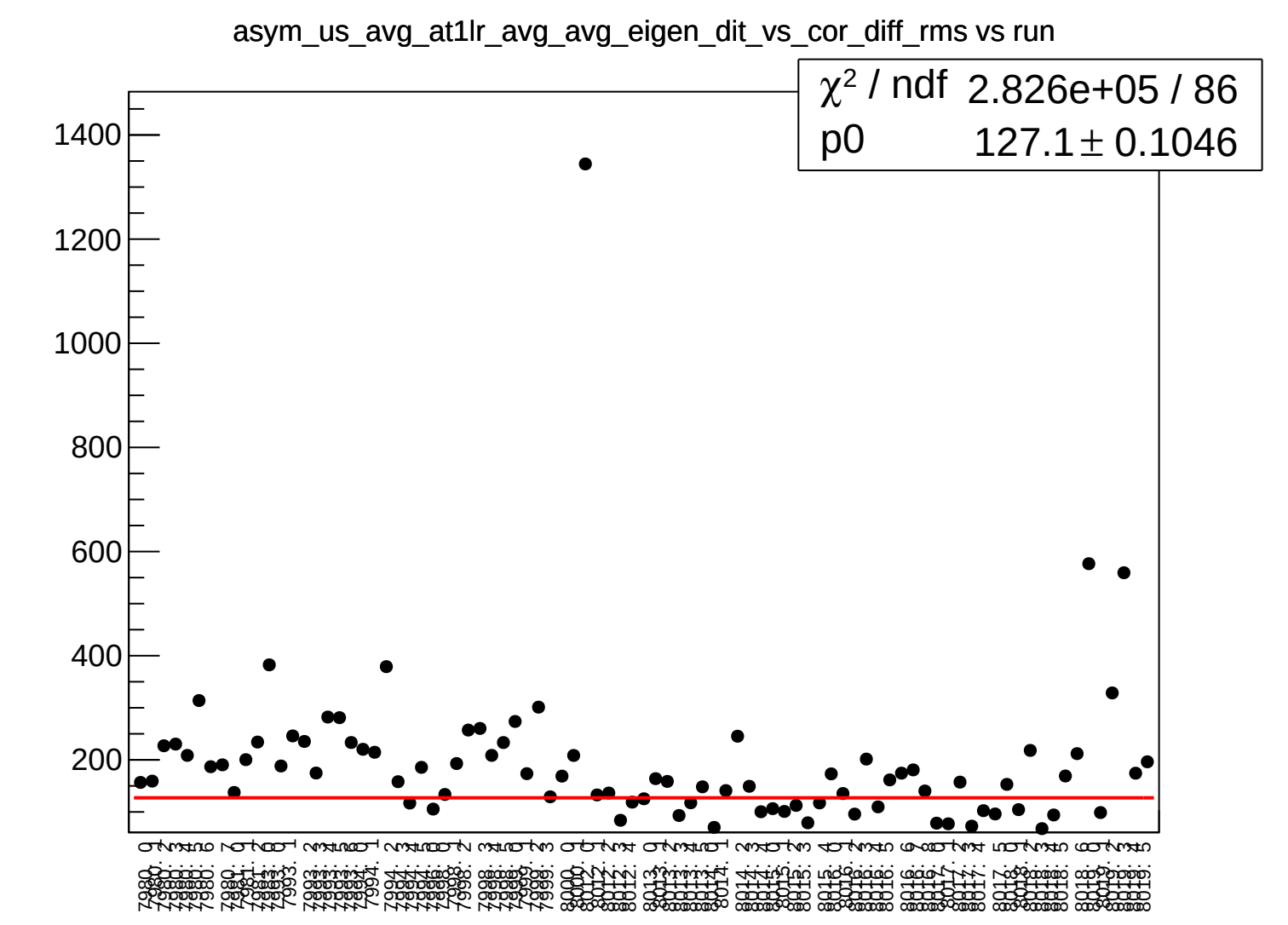

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.08 / 86
p0 −8.274e−06 ± 4.193e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 87
Mean −19.73
Std Dev 0
2
1
0
−1
−2
−3

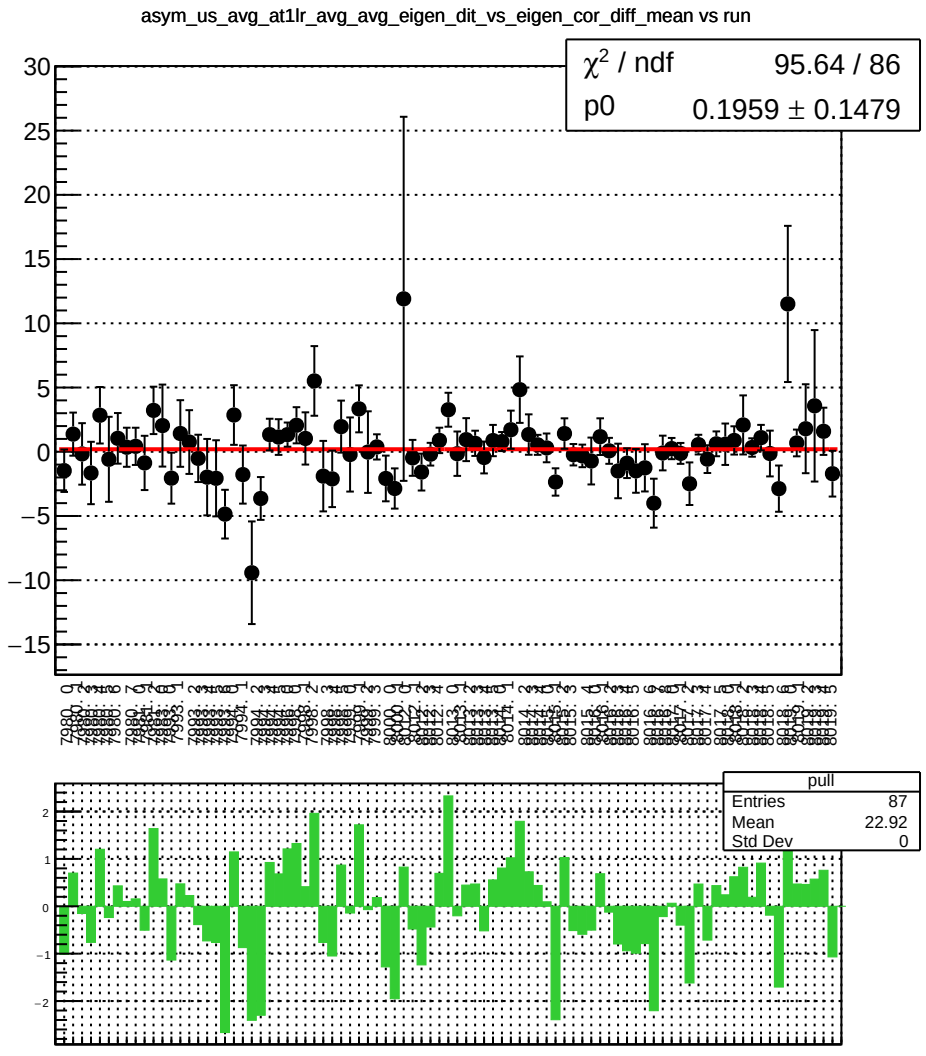

pull1D
Entries 87
Mean 0.01223
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

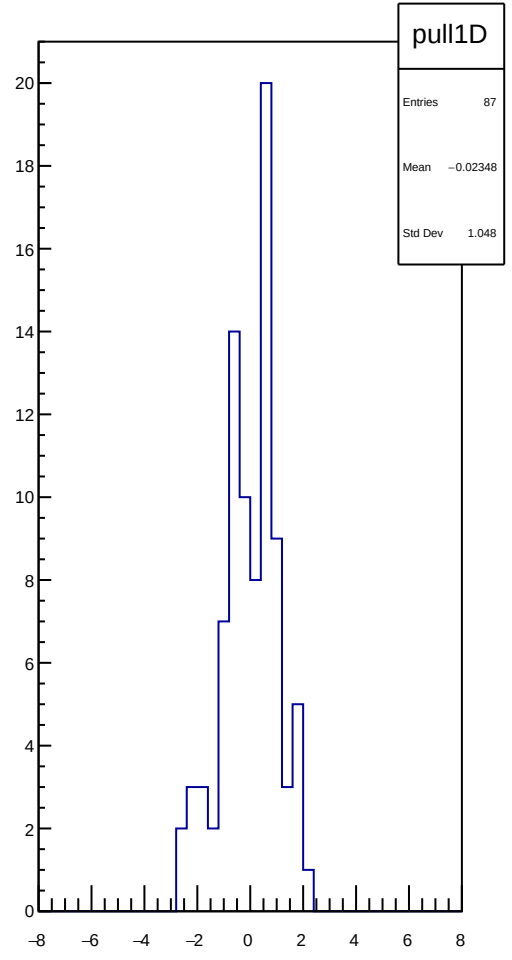

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.234e+05 / 86
p0 0.003676 ± 2.965e−06
0.007
0.006
0.005
0.004
0.003

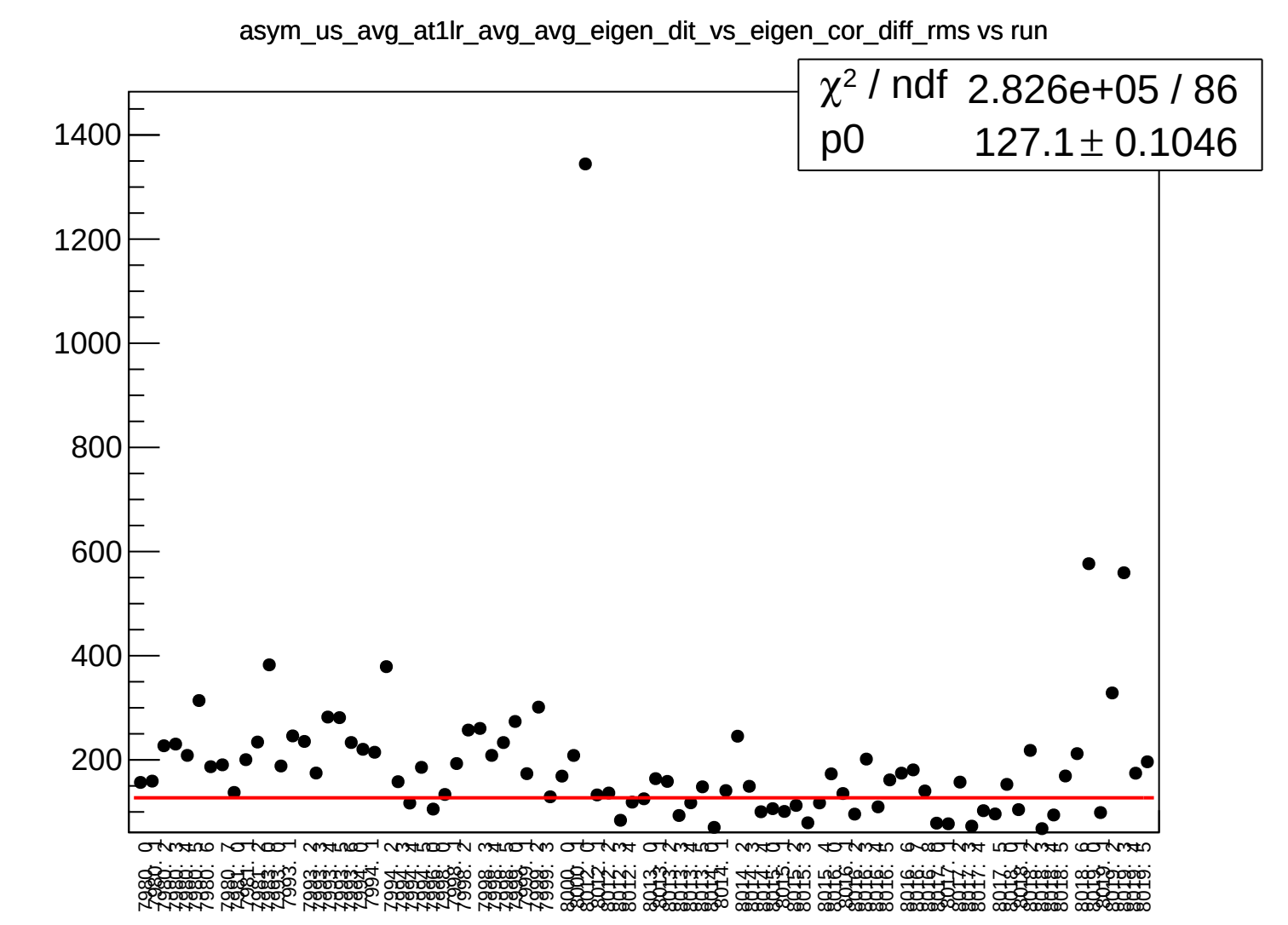

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.64 / 86
p0 0.1959 ± 0.1479
pull
Entries 87
Mean 22.92
Std Dev 0

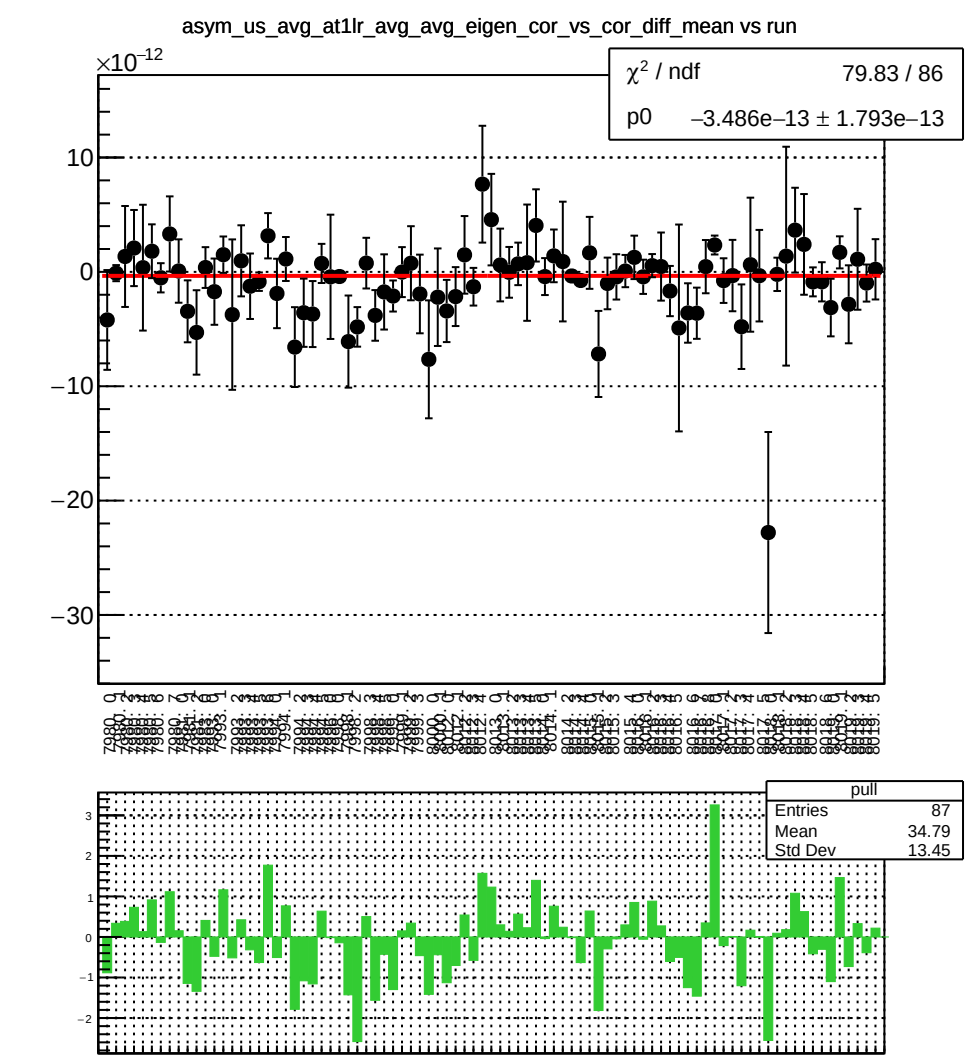

pull1D
Entries 87
Mean −0.02348
Std Dev 1.048

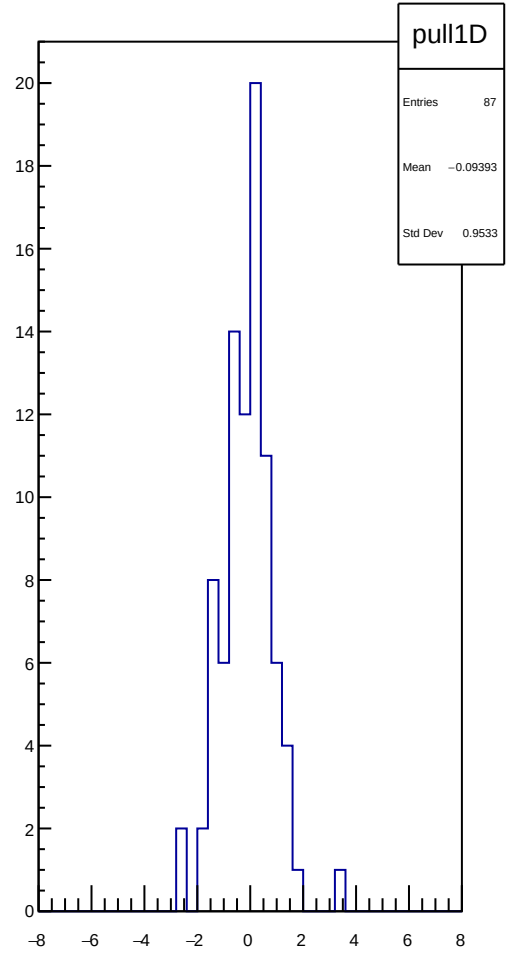

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.826e+05 / 86
p0 127.1 ± 0.1046
1400
1200
1000
800
600
400
200

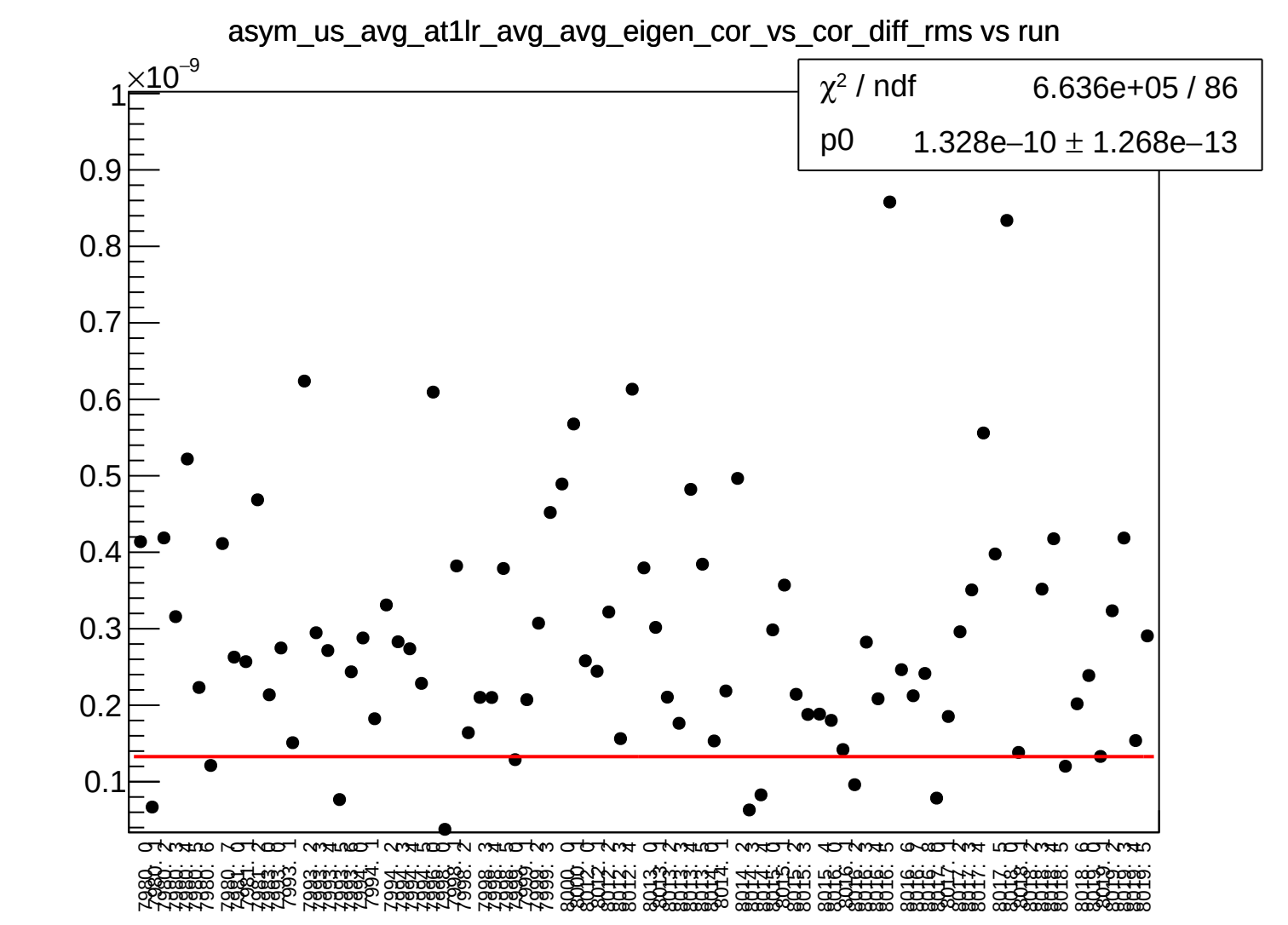

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.64 / 86
p0 0.1959 ± 0.1479
pull
Entries 87
Mean 22.92
Std Dev 0

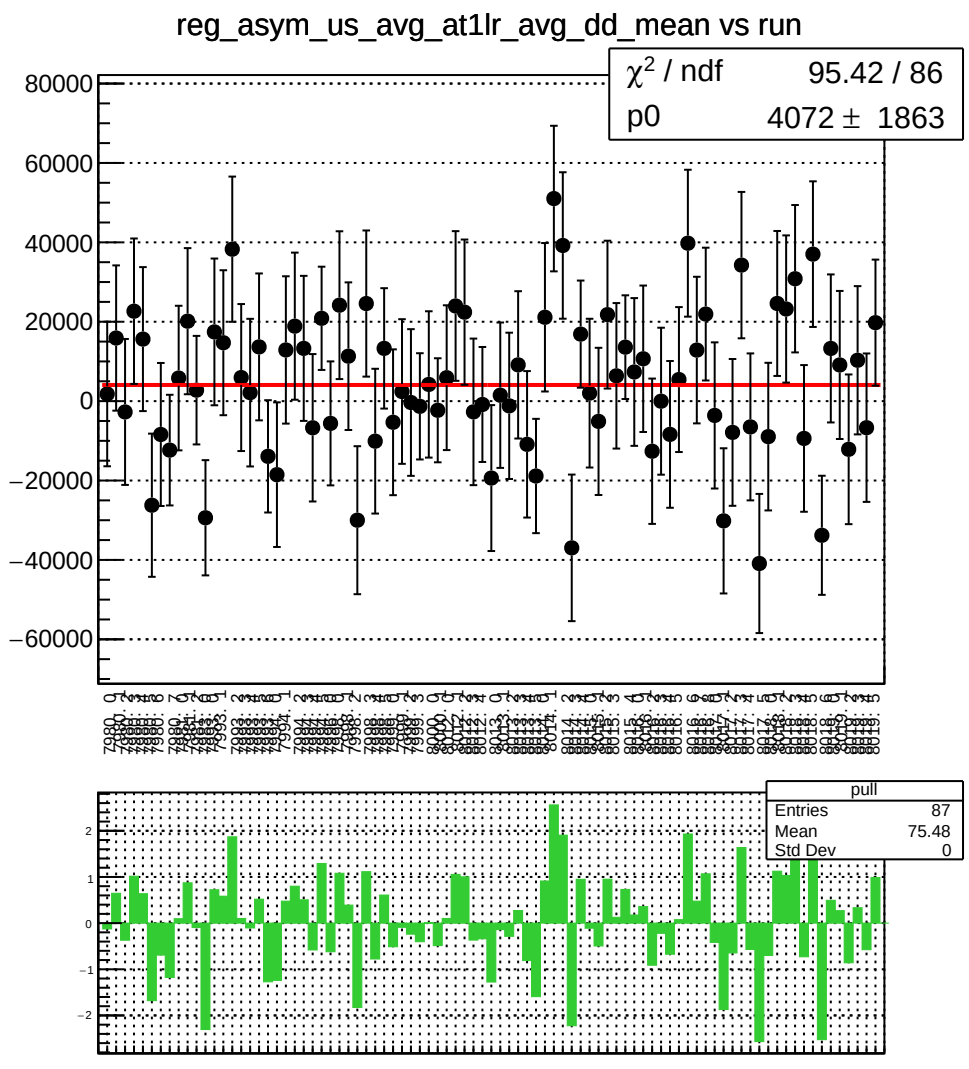

pull1D
Entries 87
Mean −0.02348
Std Dev 1.048

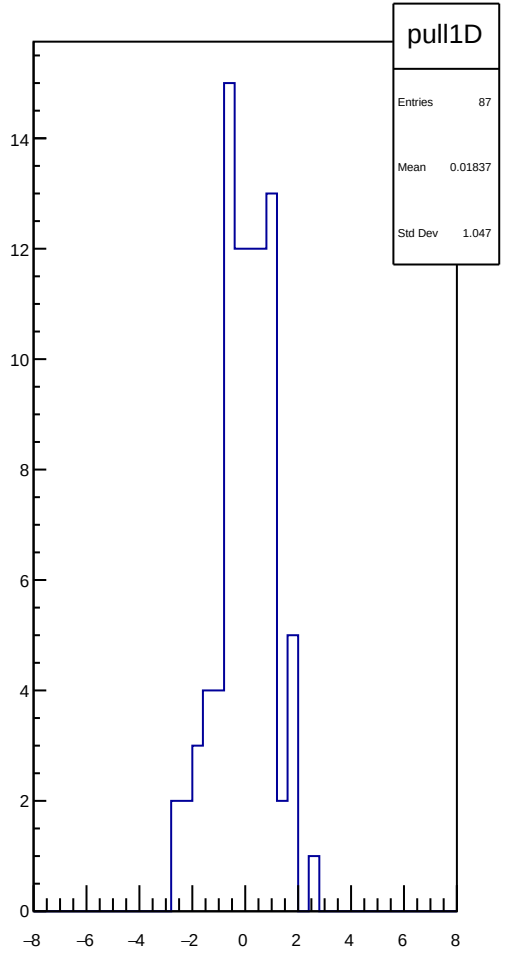

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.826e+05 / 86
p0 127.1 ± 0.1046
1400
1200
1000
800
600
400
200

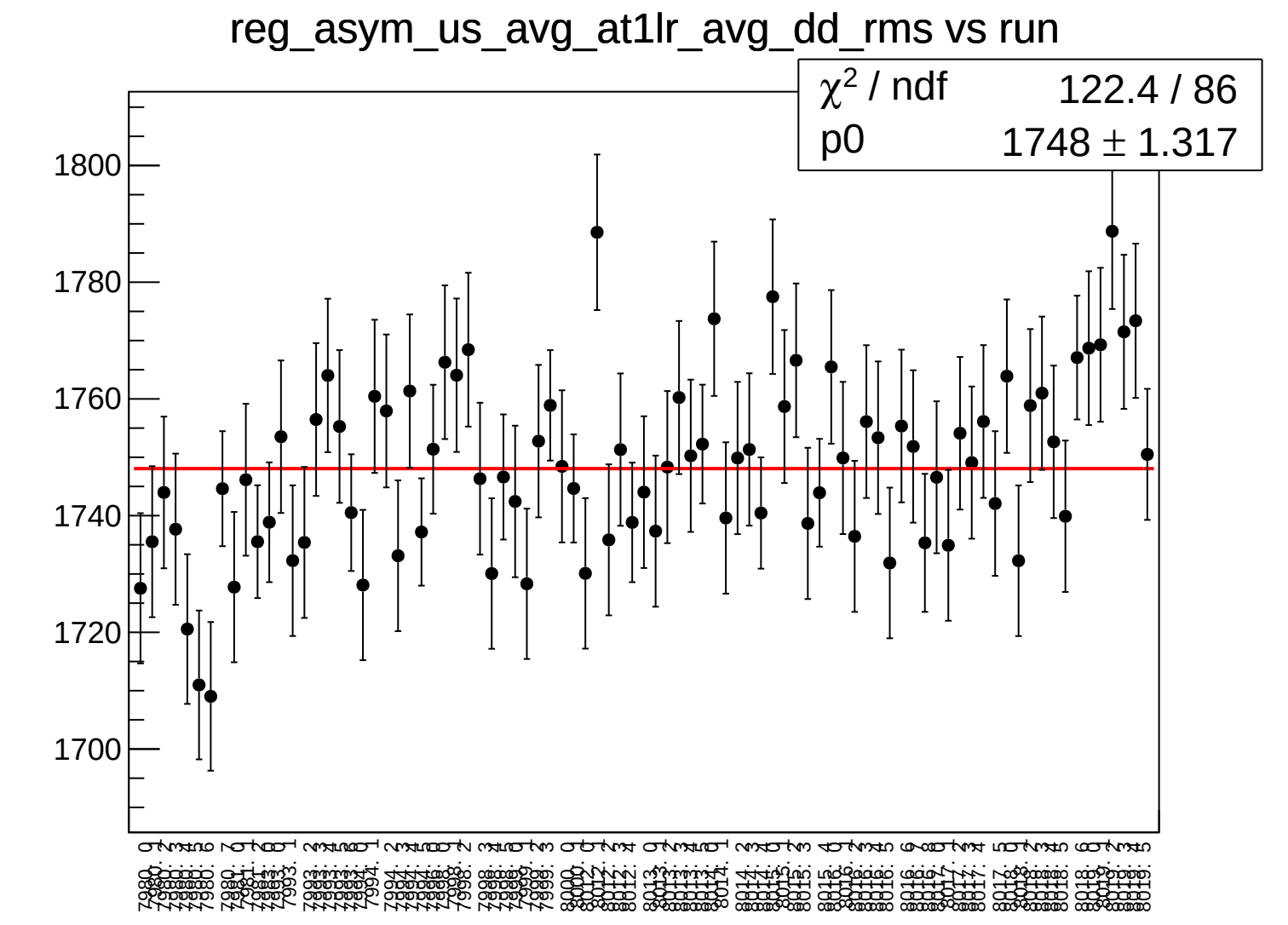

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.83 / 86
p0 −3.486e−13 ± 1.793e−13
pull
Entries 87
Mean 34.79
Std Dev 13.45

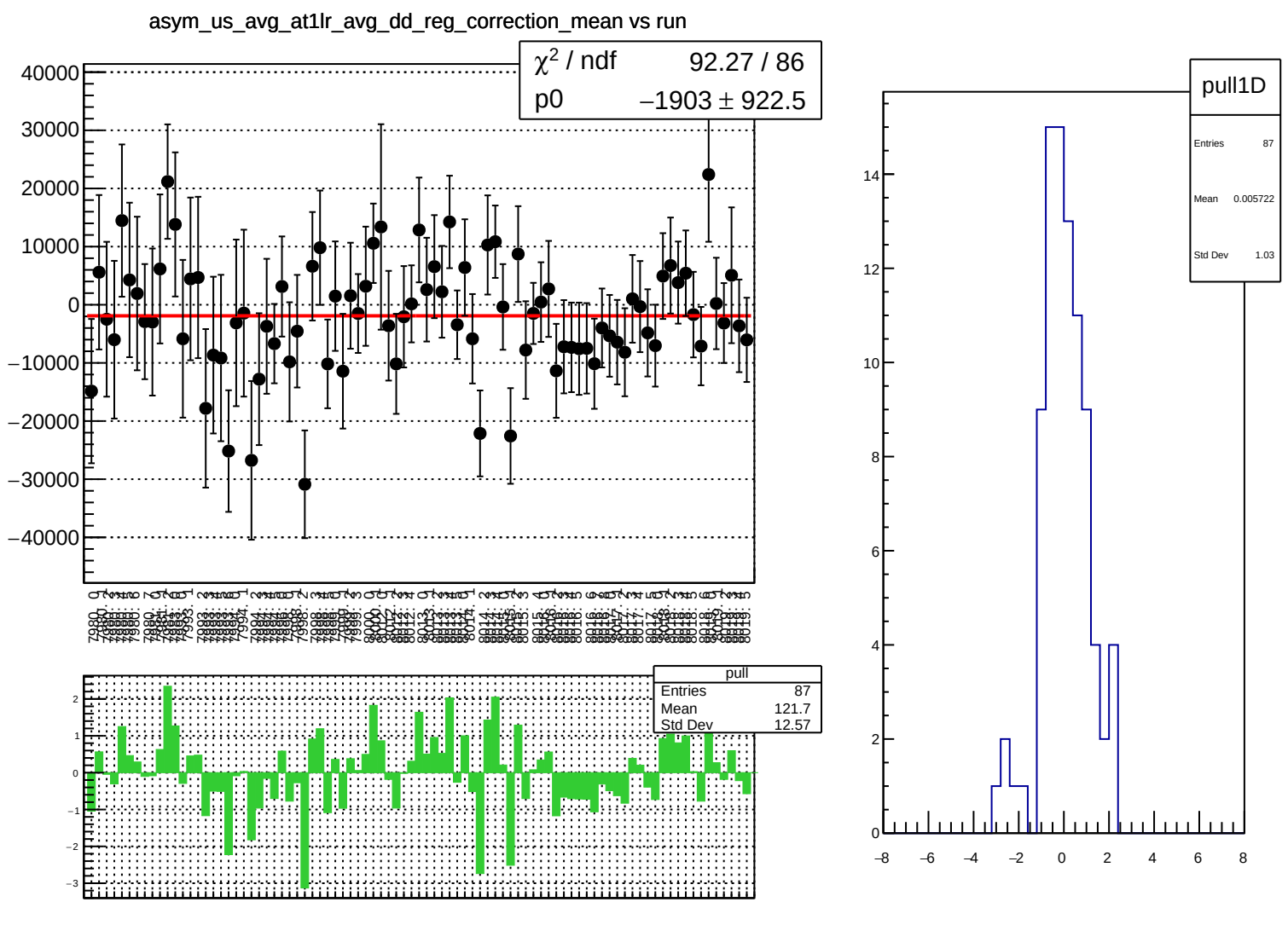

pull1D
Entries 87
Mean −0.09393
Std Dev 0.9533

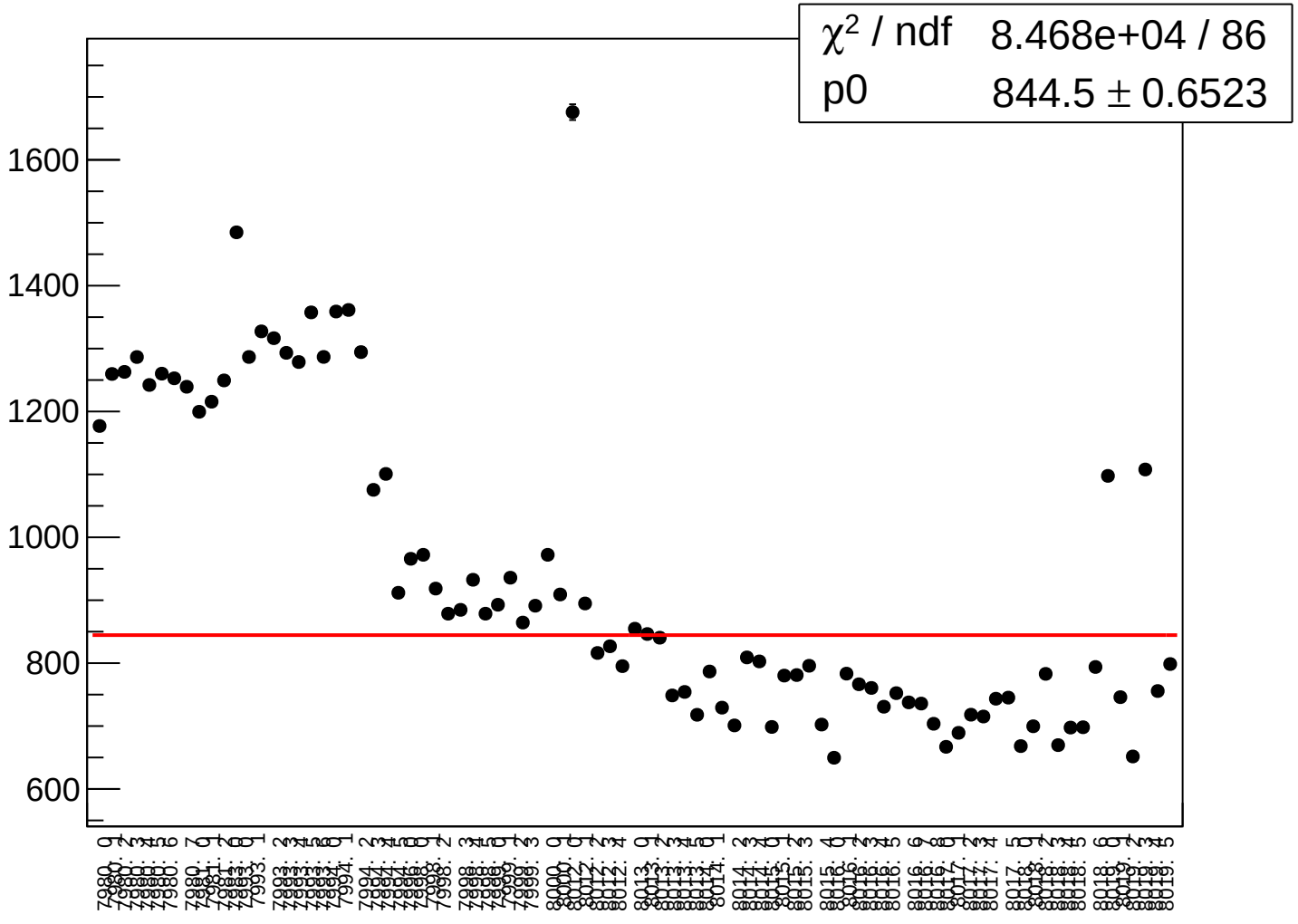

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.636e+05 / 86
p0 1.328e−10 ± 1.268e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

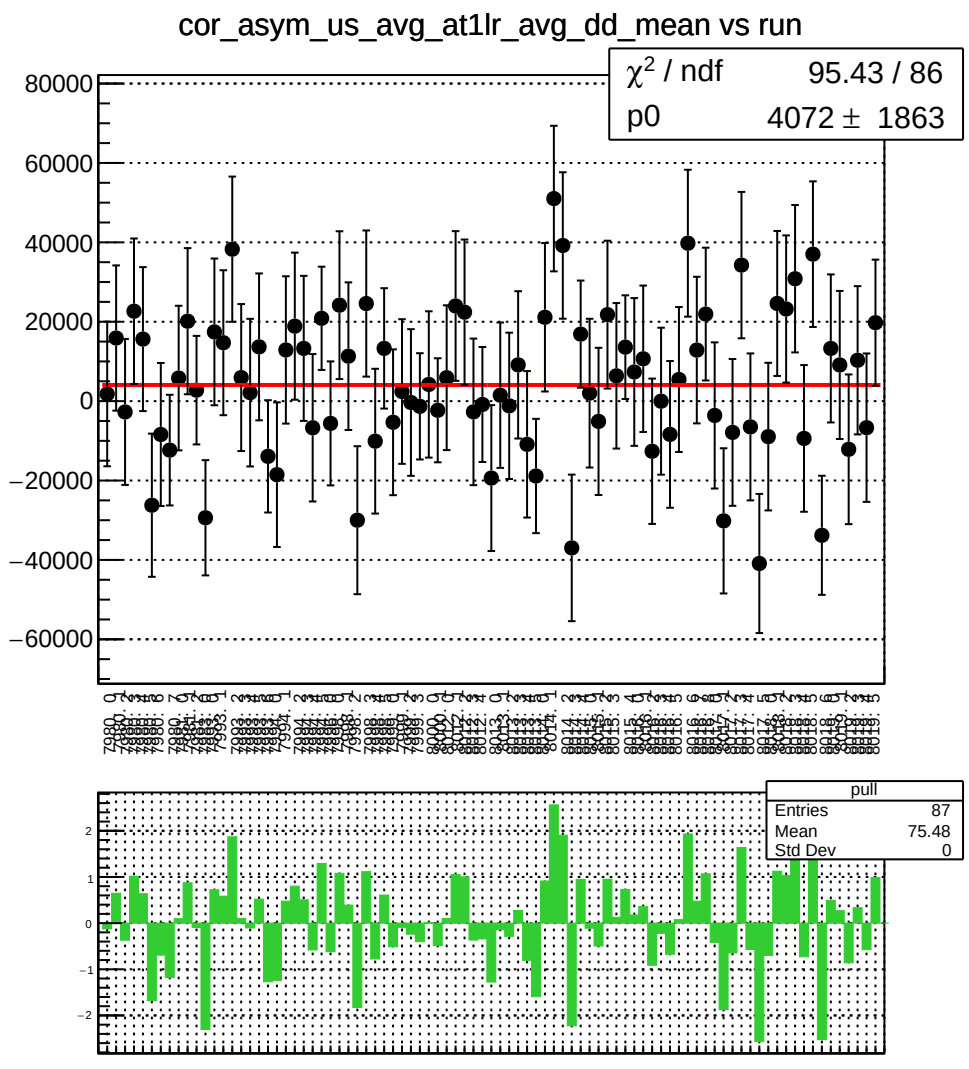

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 95.42 / 86
p0 4072 ± 1863
pull
Entries 87
Mean 75.48
Std Dev 0

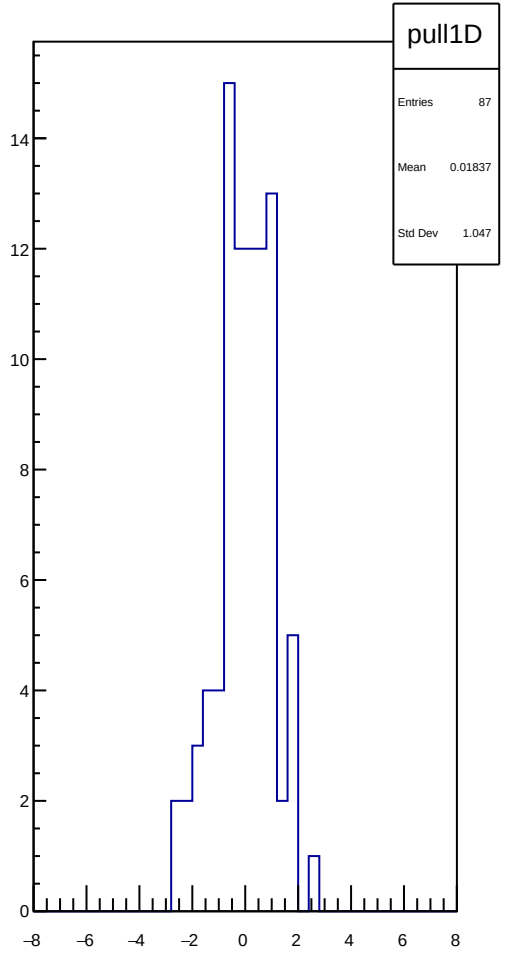

pull1D
Entries 87
Mean 0.01837
Std Dev 1.047

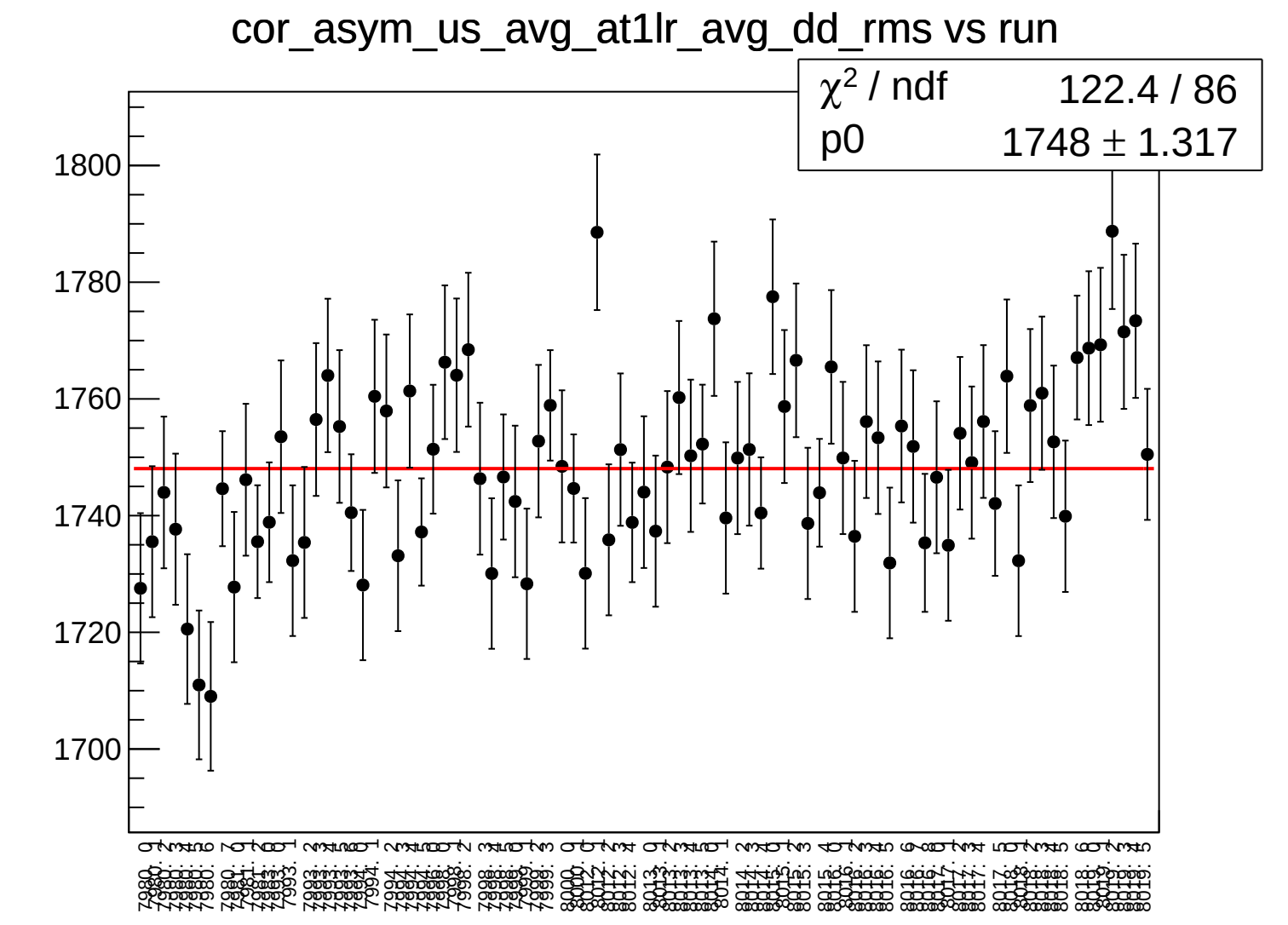

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 122.4 / 86
p0 1748 ± 1.317
1800
1780
1760
1740
1720
1700

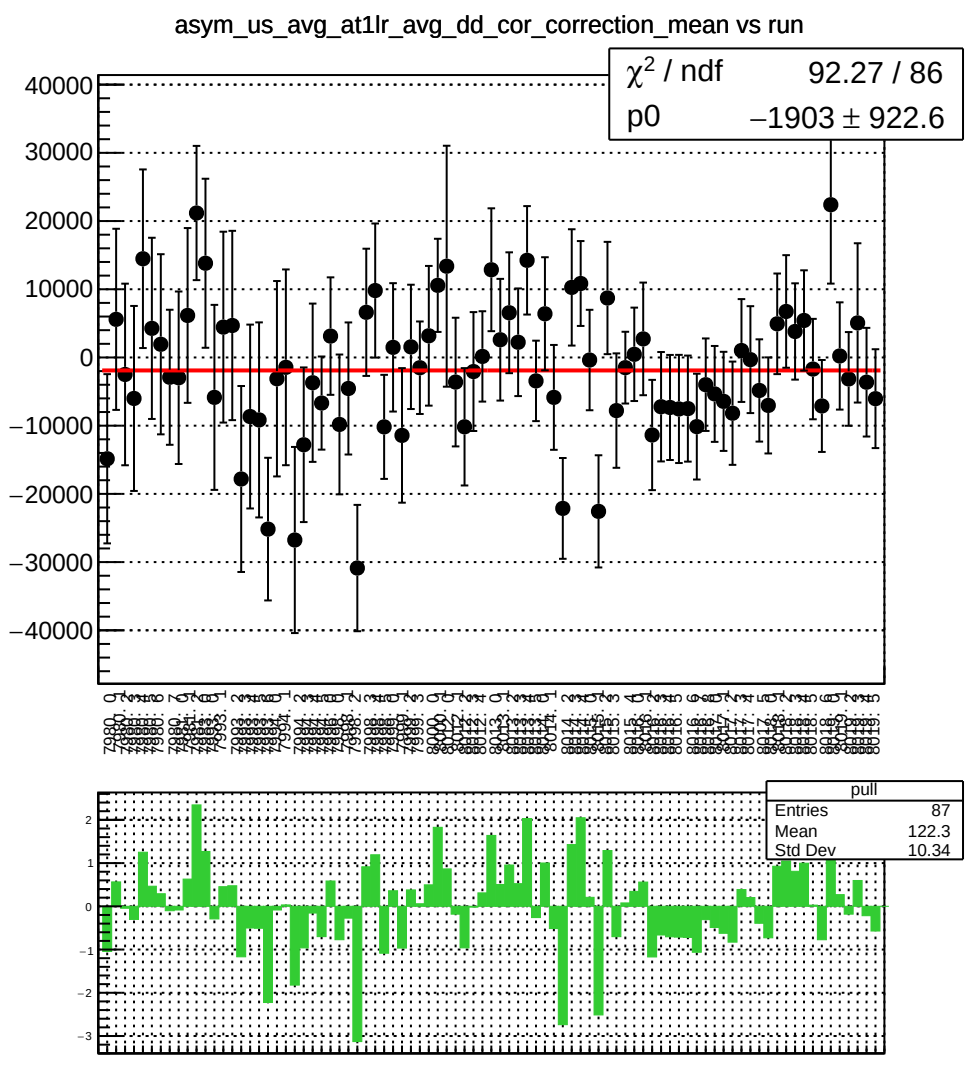

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 92.27 / 86
p0 −1903 ± 922.5
pull
Entries 87
Mean 121.7
Std Dev 12.57
pull1D
Entries 87
Mean 0.005722
Std Dev 1.03

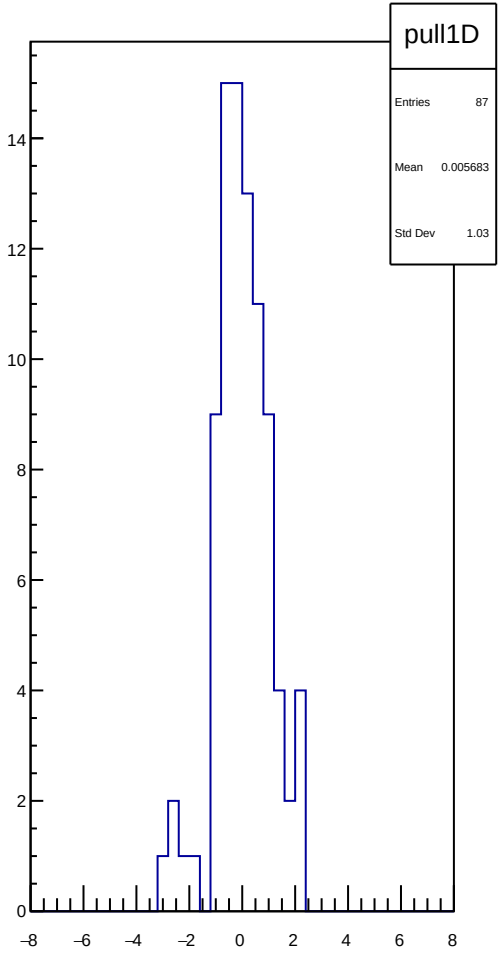

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 8.468e+04 / 86
p0 844.5 ± 0.6523
1600
1400
1200
1000
800
600

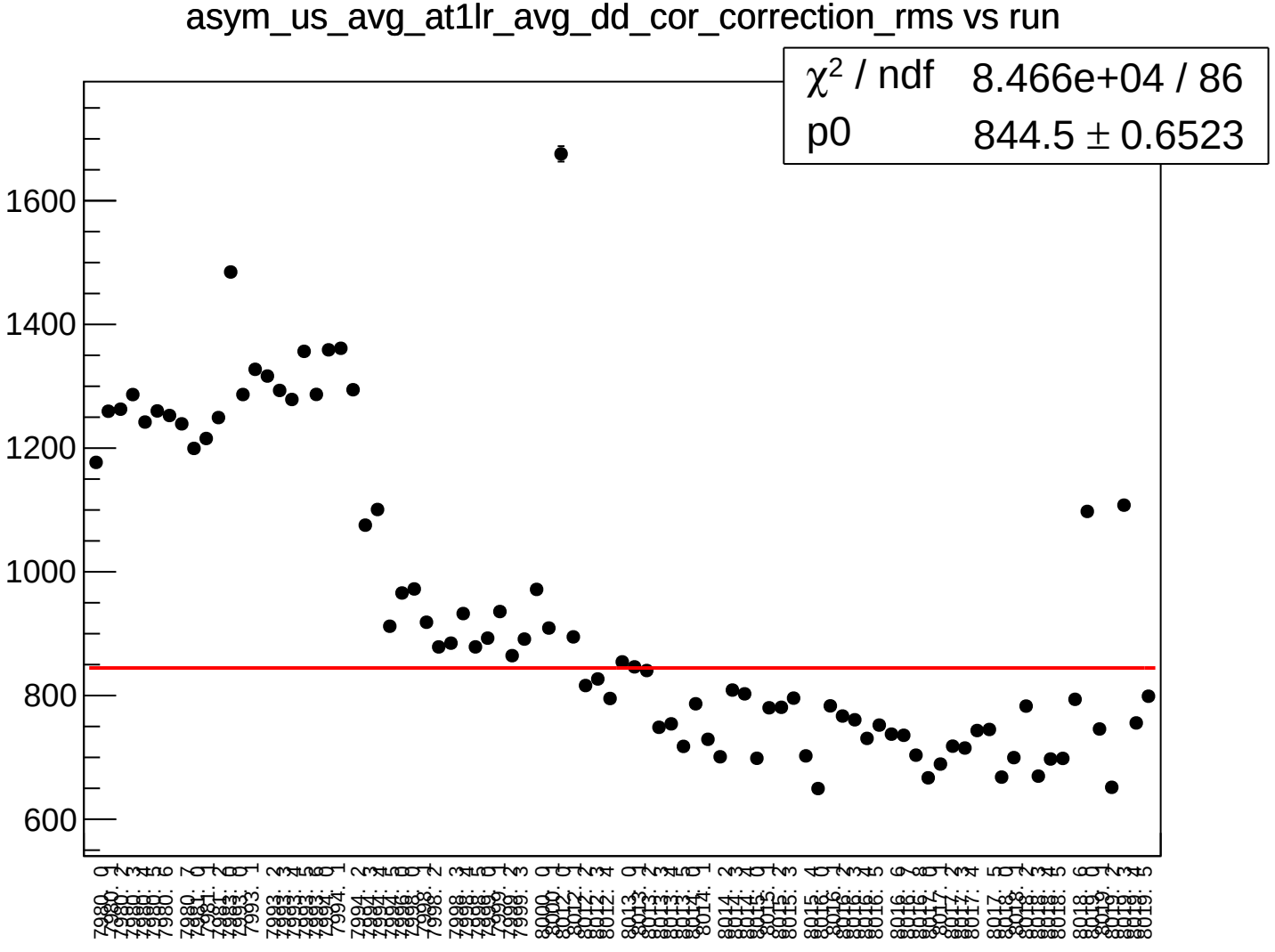

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 95.43 / 86
p0 4072 ± 1863
pull
Entries 87
Mean 75.48
Std Dev 0

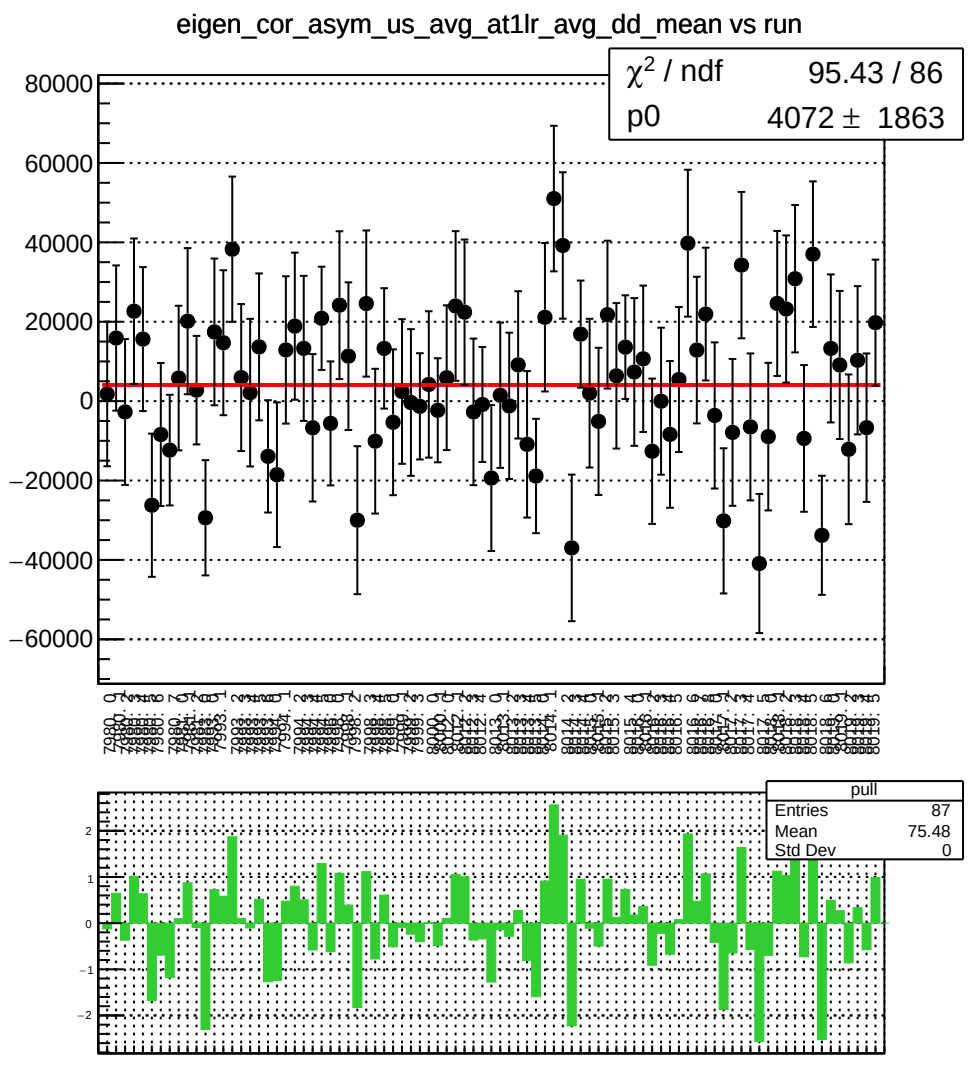

pull1D
Entries 87
Mean 0.01837
Std Dev 1.047

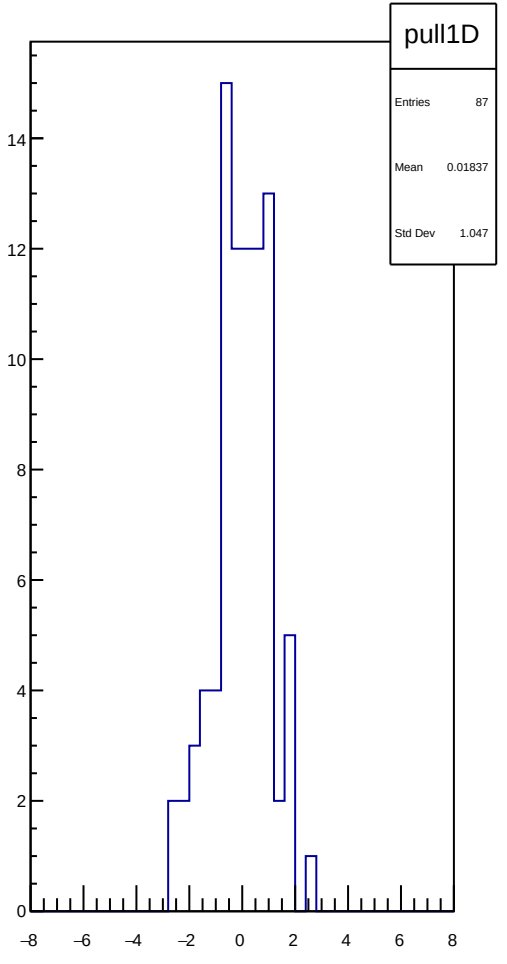

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 122.4 / 86
p0 1748 ± 1.317
1800
1780
1760
1740
1720
1700

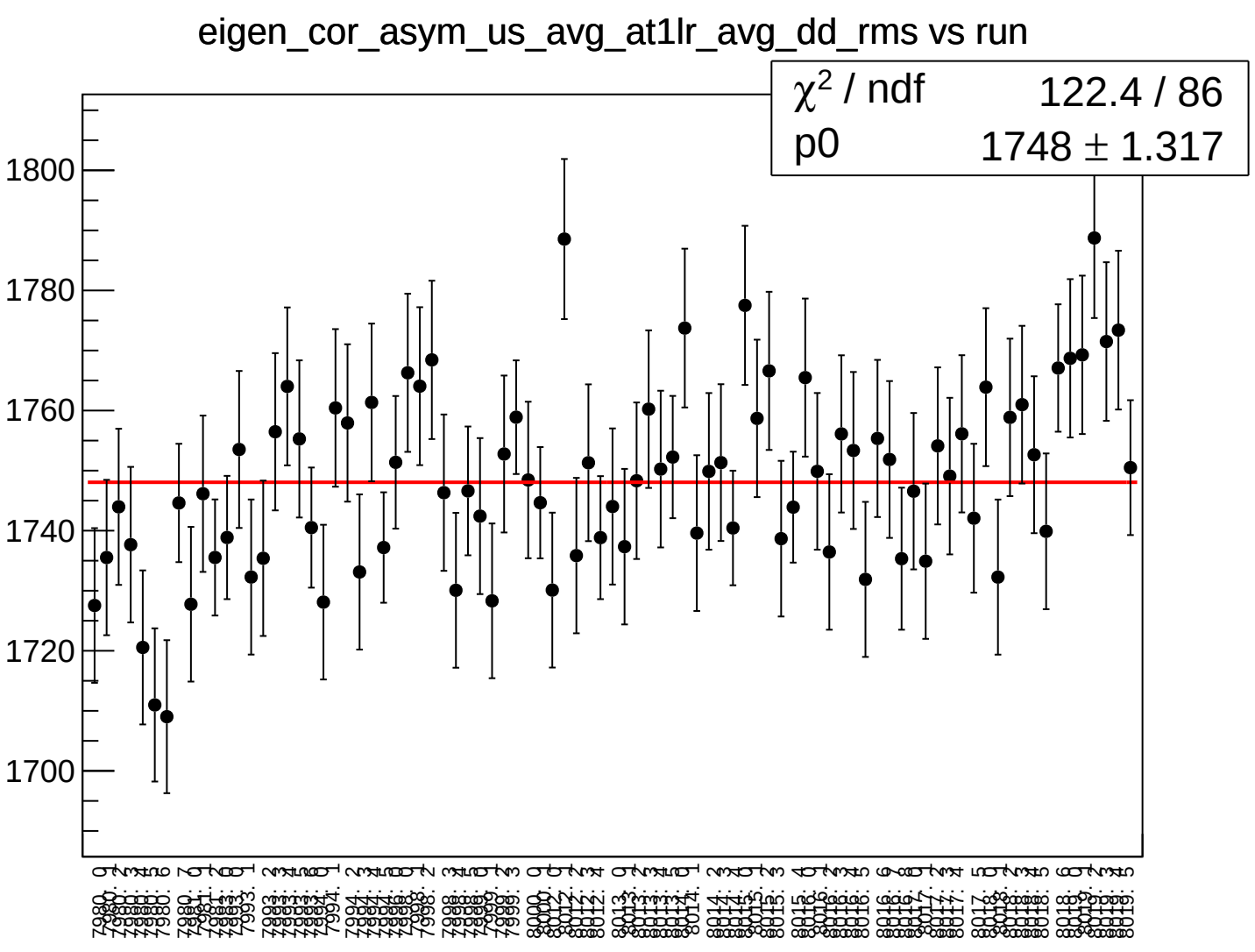

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 92.27 / 86
p0 −1903 ± 922.6
pull
Entries 87
Mean 122.3
Std Dev 10.34

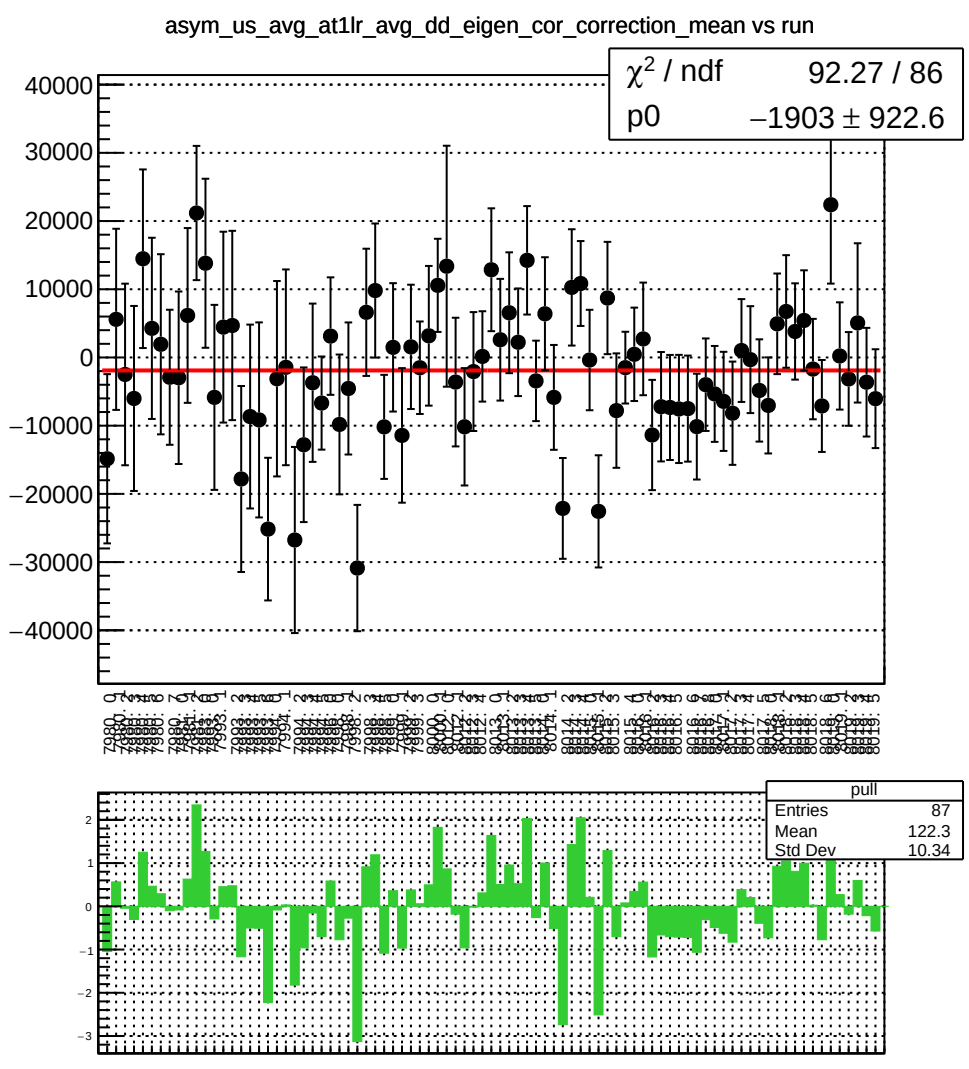

pull1D
Entries 87
Mean 0.005683
Std Dev 1.03

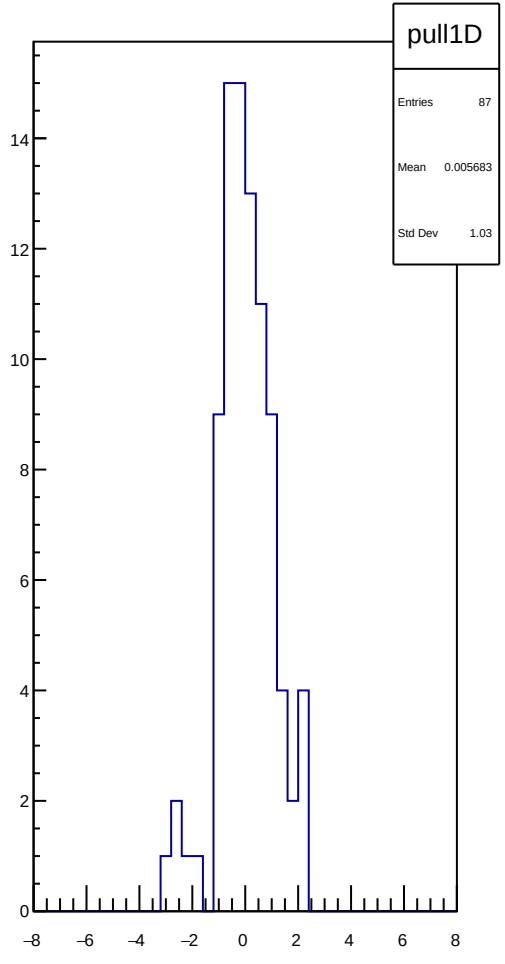

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 8.466e+04 / 86
p0 844.5 ± 0.6523
1600
1400
1200
1000
800
600

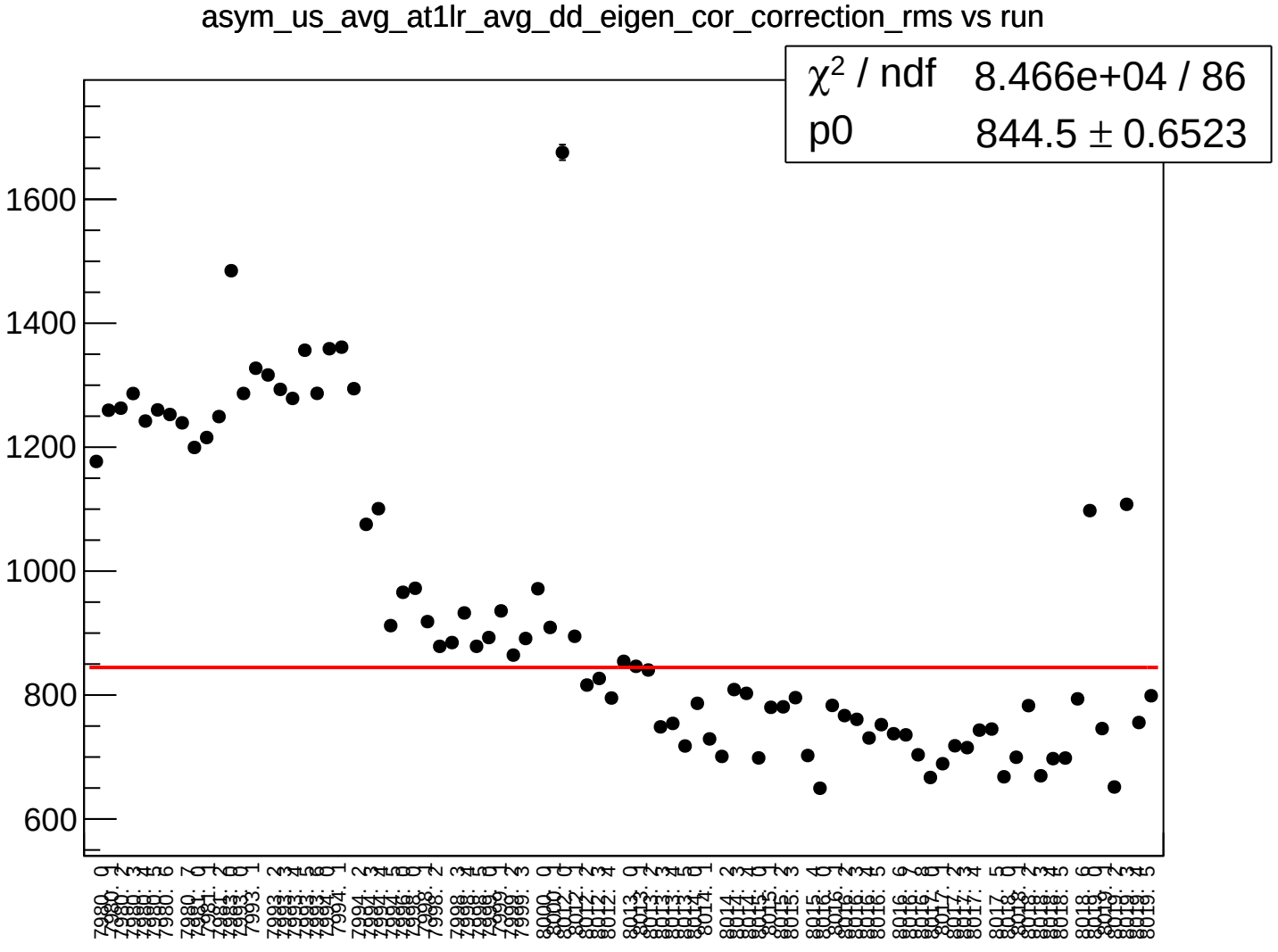

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 95.43 / 86
p0 4072 ± 1863
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 75.48
Std Dev 0
2
1
0
−1
−2

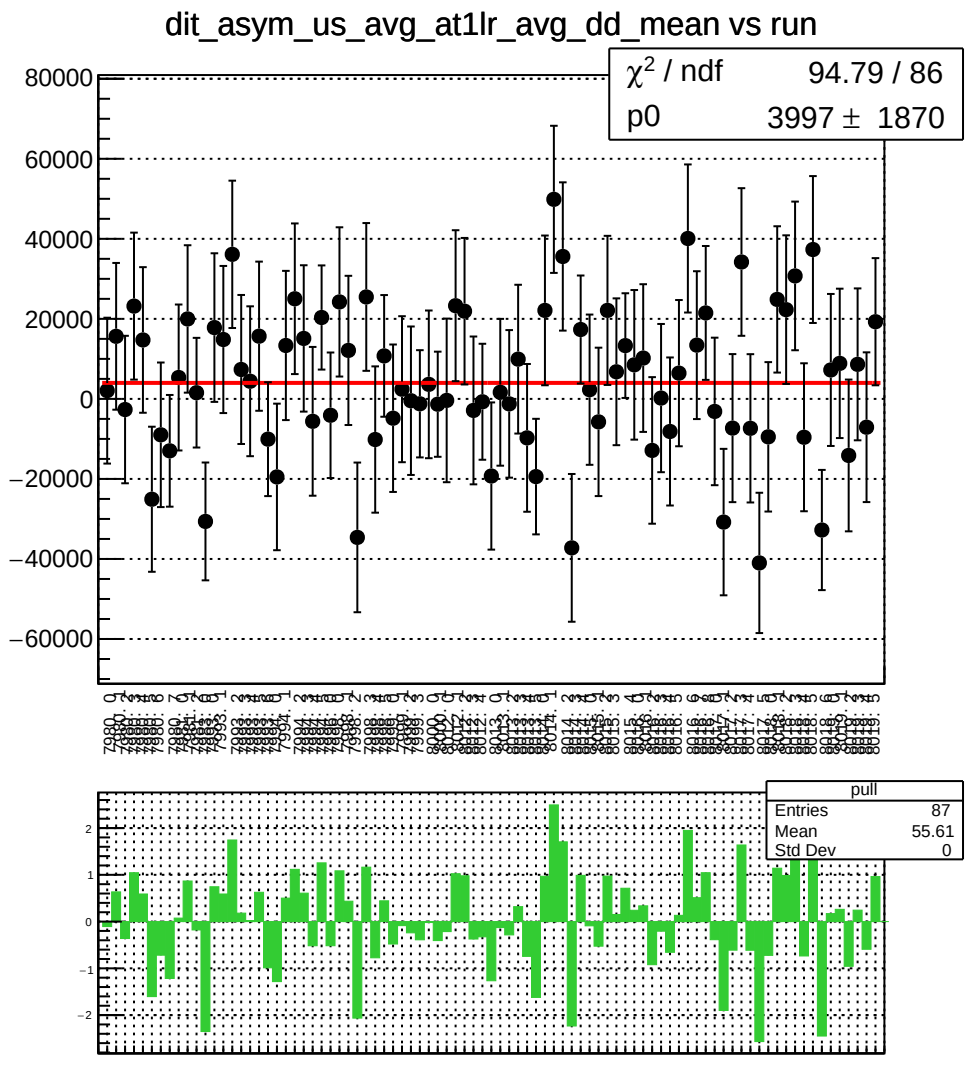

pull1D
Entries 87
Mean 0.01837
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

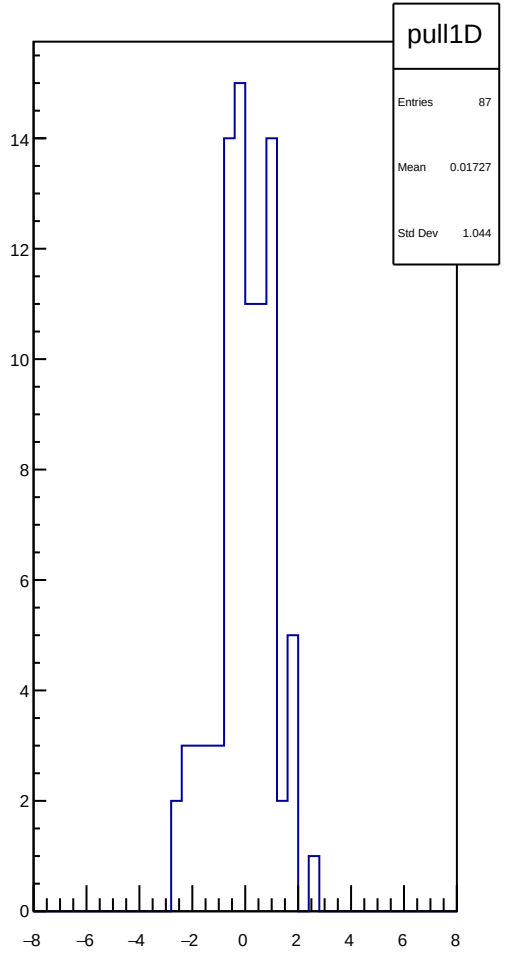

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 122.4 / 86
p0 1748 ± 1.317
1800
1780
1760
1740
1720
1700

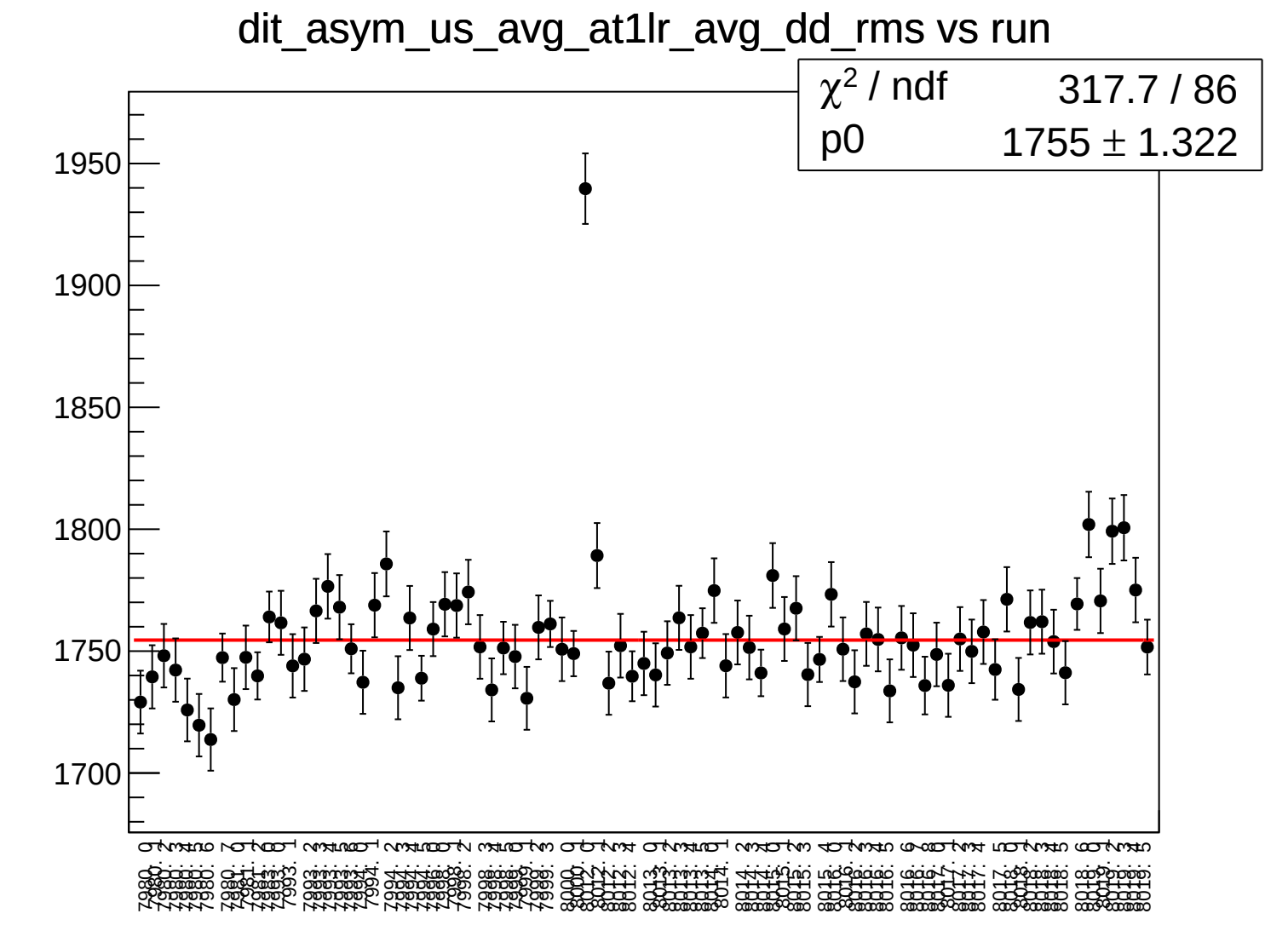

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.27 / 86
p0 −1903 ± 922.6
pull
Entries 87
Mean 122.3
Std Dev 10.34

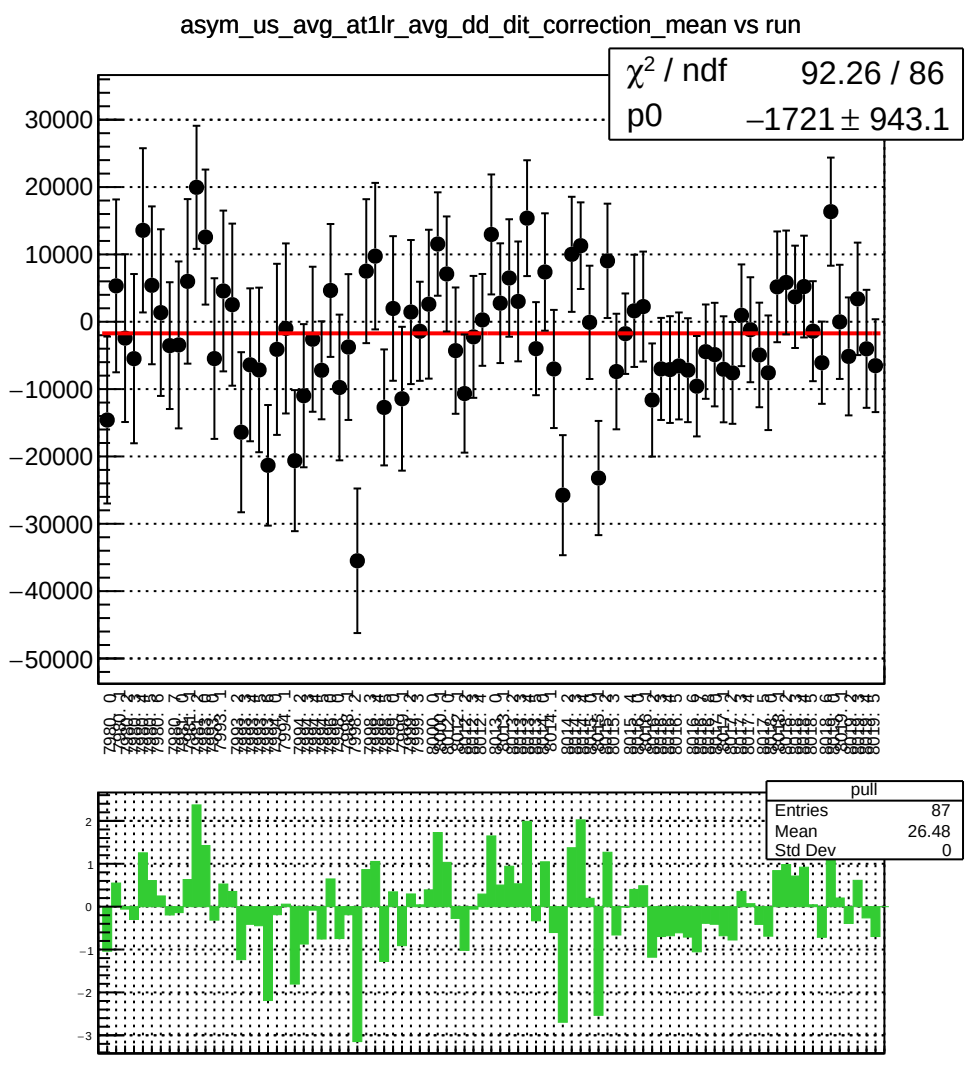

pull1D
Entries 87
Mean 0.005683
Std Dev 1.03

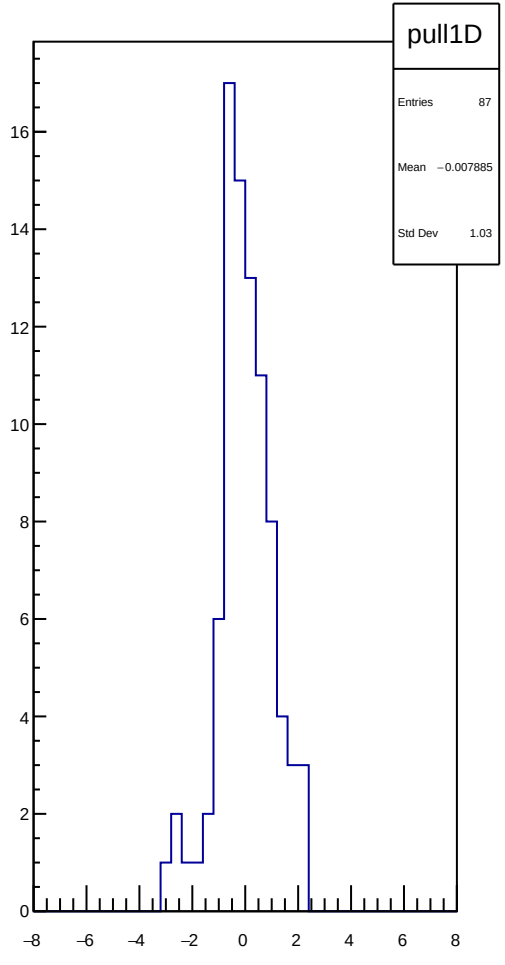

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8.466e+04 / 86
p0 844.5 ± 0.6523
1600
1400
1200
1000
800
600

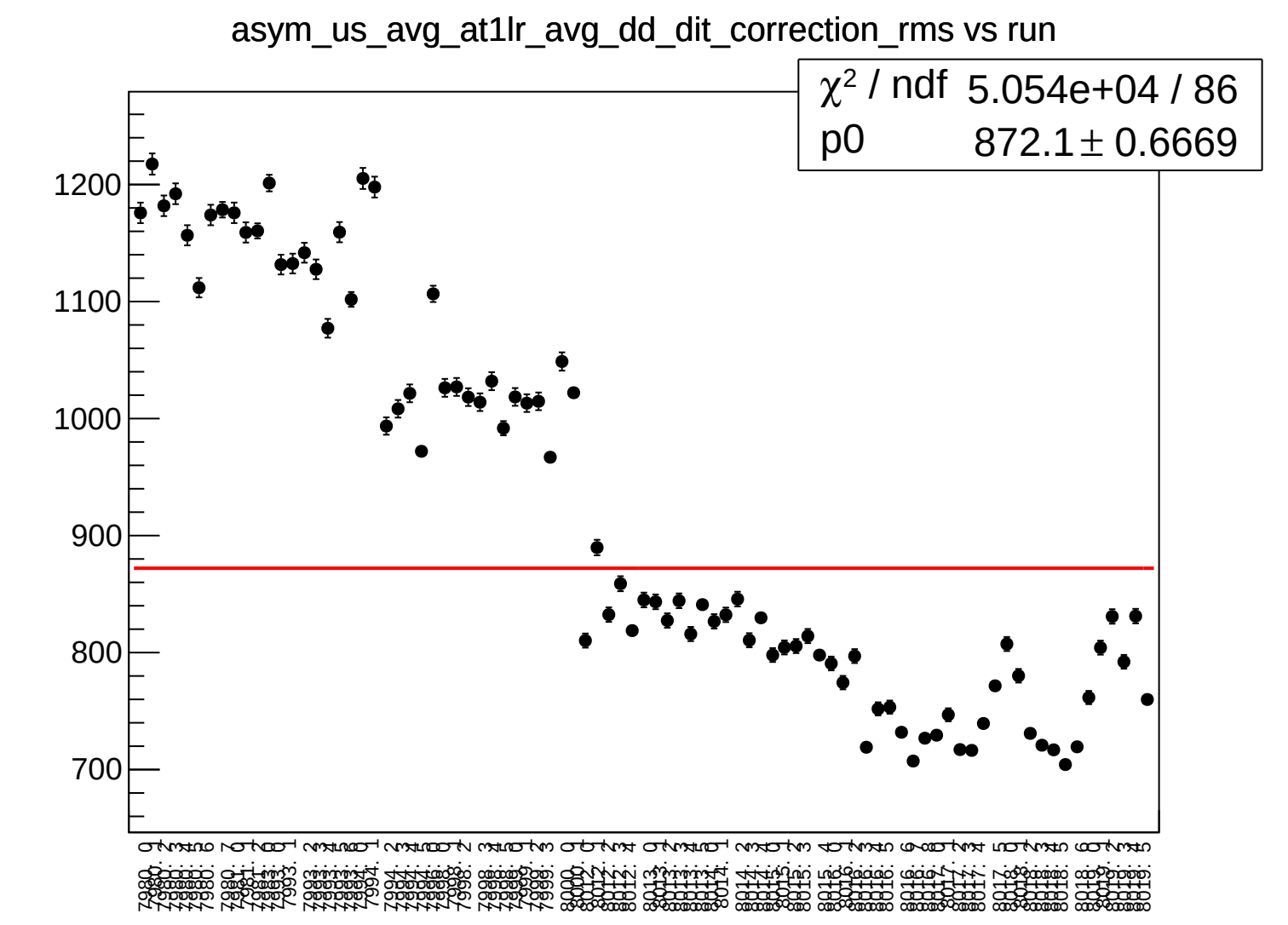

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 94.79 / 86
p0 3997 ± 1870
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 55.61
Std Dev 0
2
1
0
−1
−2

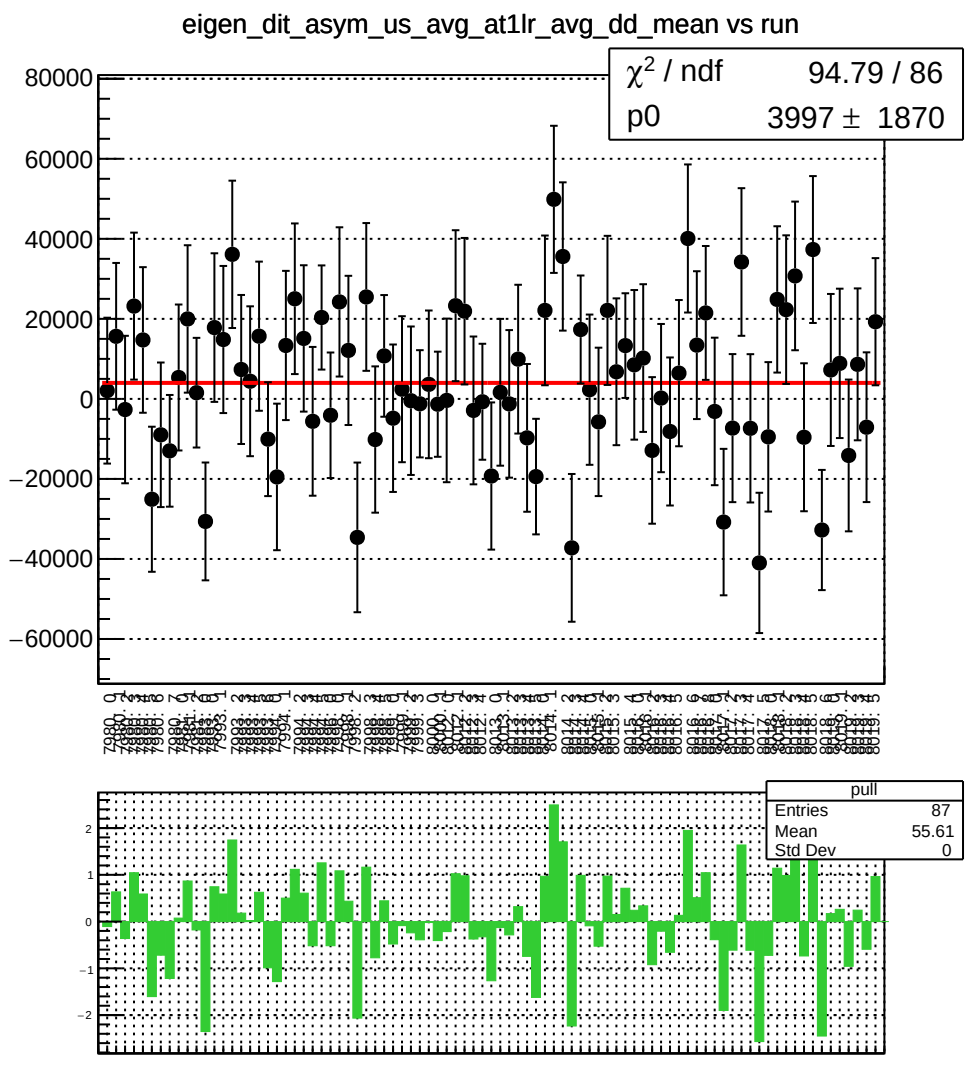

pull1D
Entries 87
Mean 0.01727
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

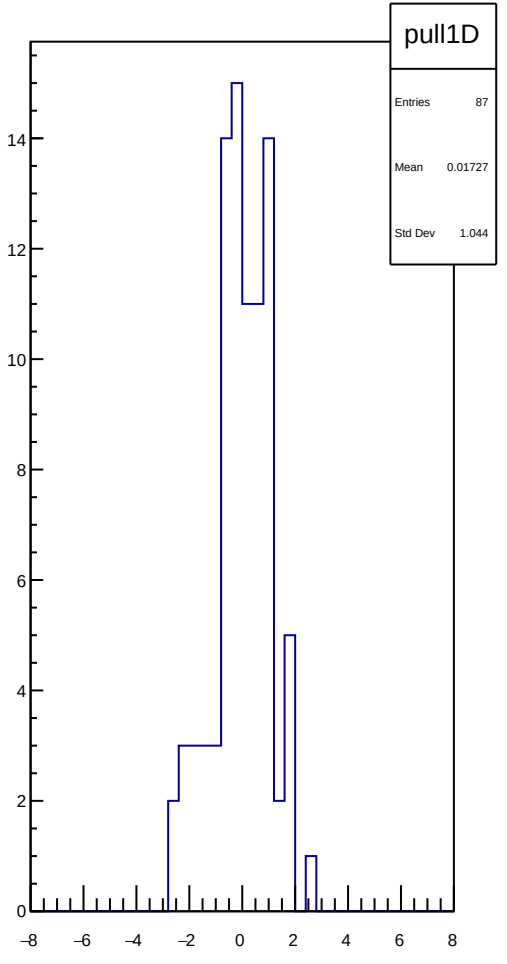

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 317.7 / 86
p0 1755 ± 1.322
1950
1900
1850
1800
1750
1700

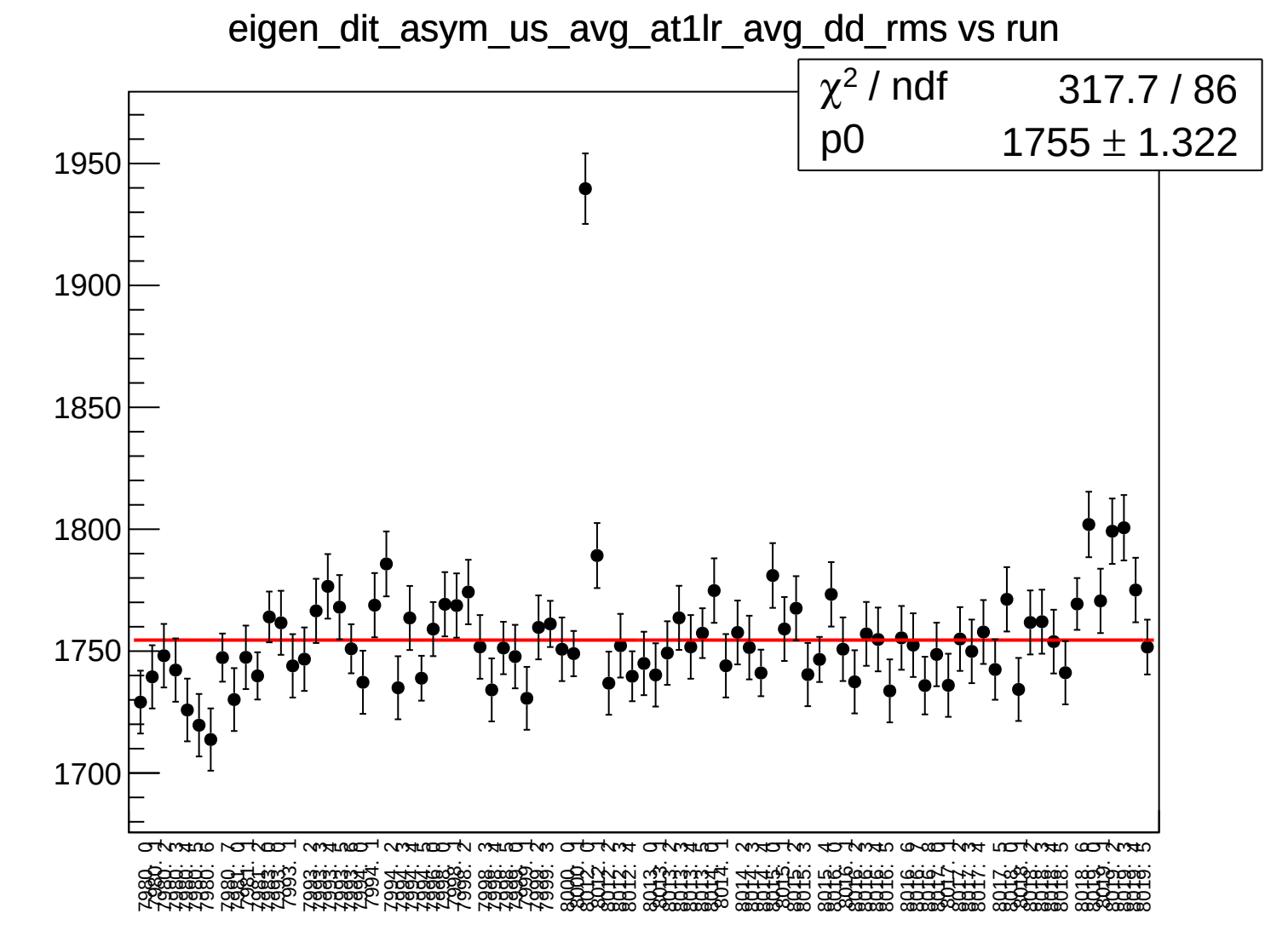

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 92.26 / 86
p0 −1721 ± 943.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 87
Mean 26.48
Std Dev 0
2
1
0
−1
−2
−3

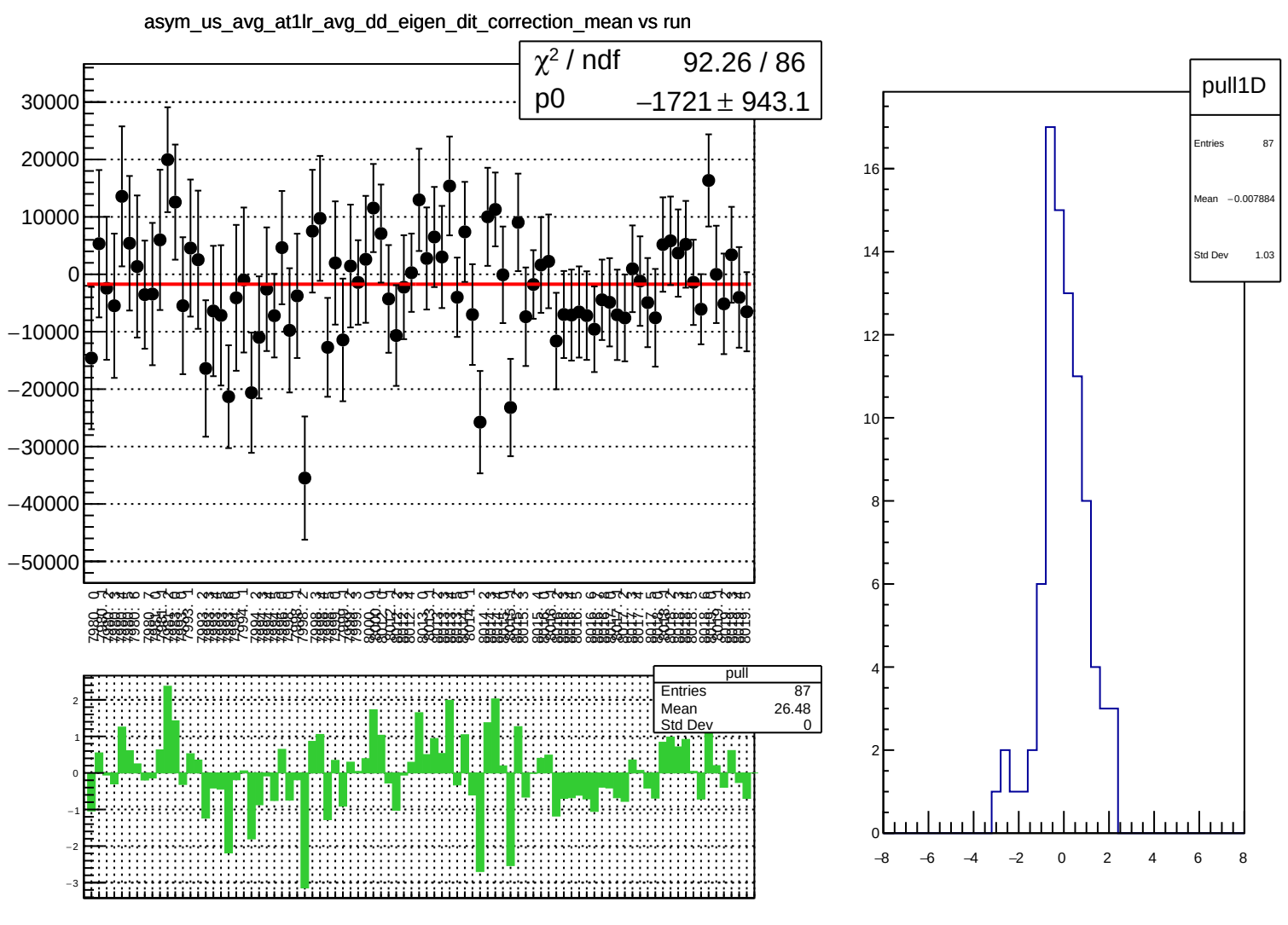

pull1D
Entries 87
Mean −0.007885
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

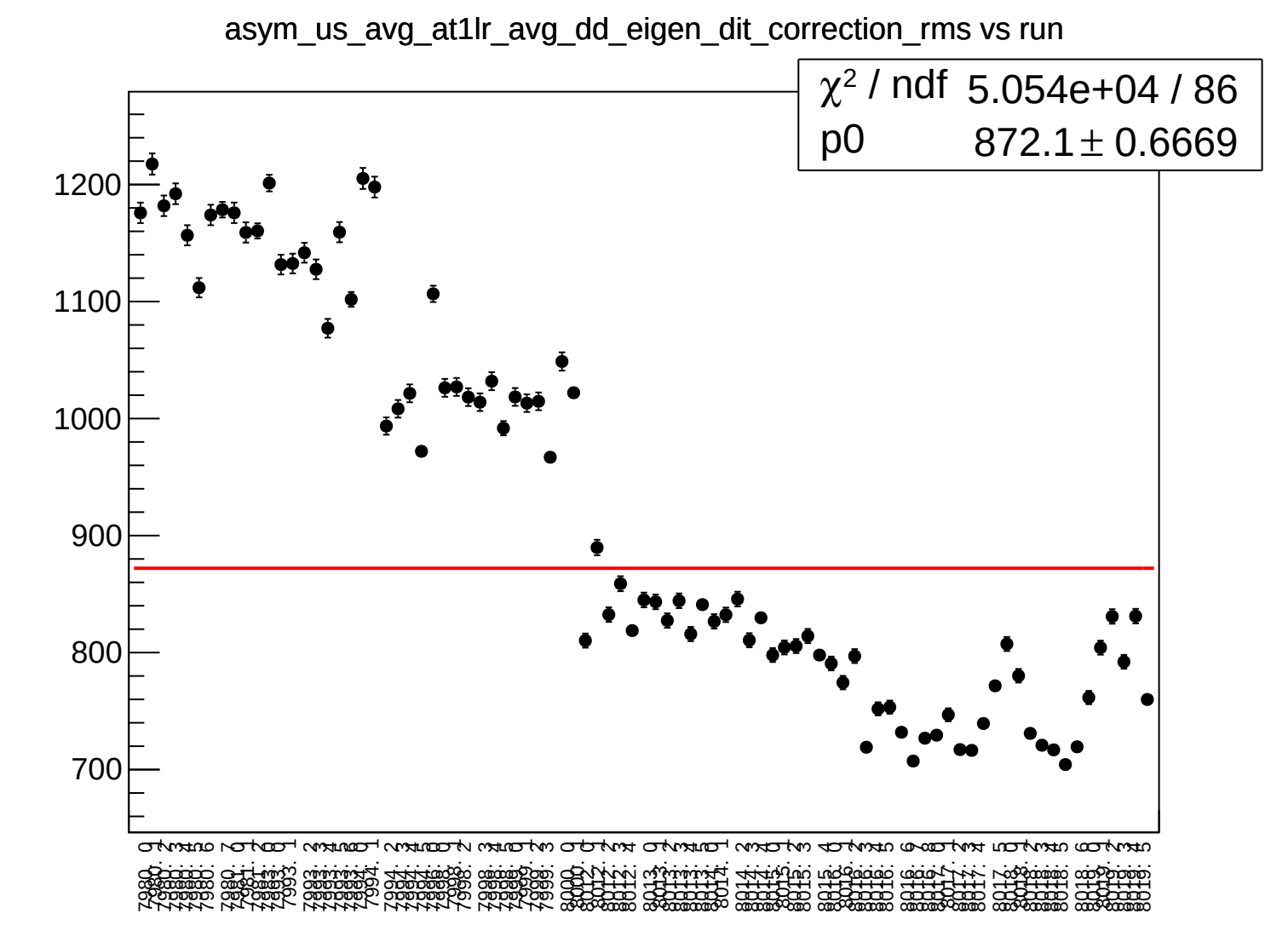

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 5.054e+04 / 86
p0 872.1 ± 0.6669
1200
1100
1000
900
800
700

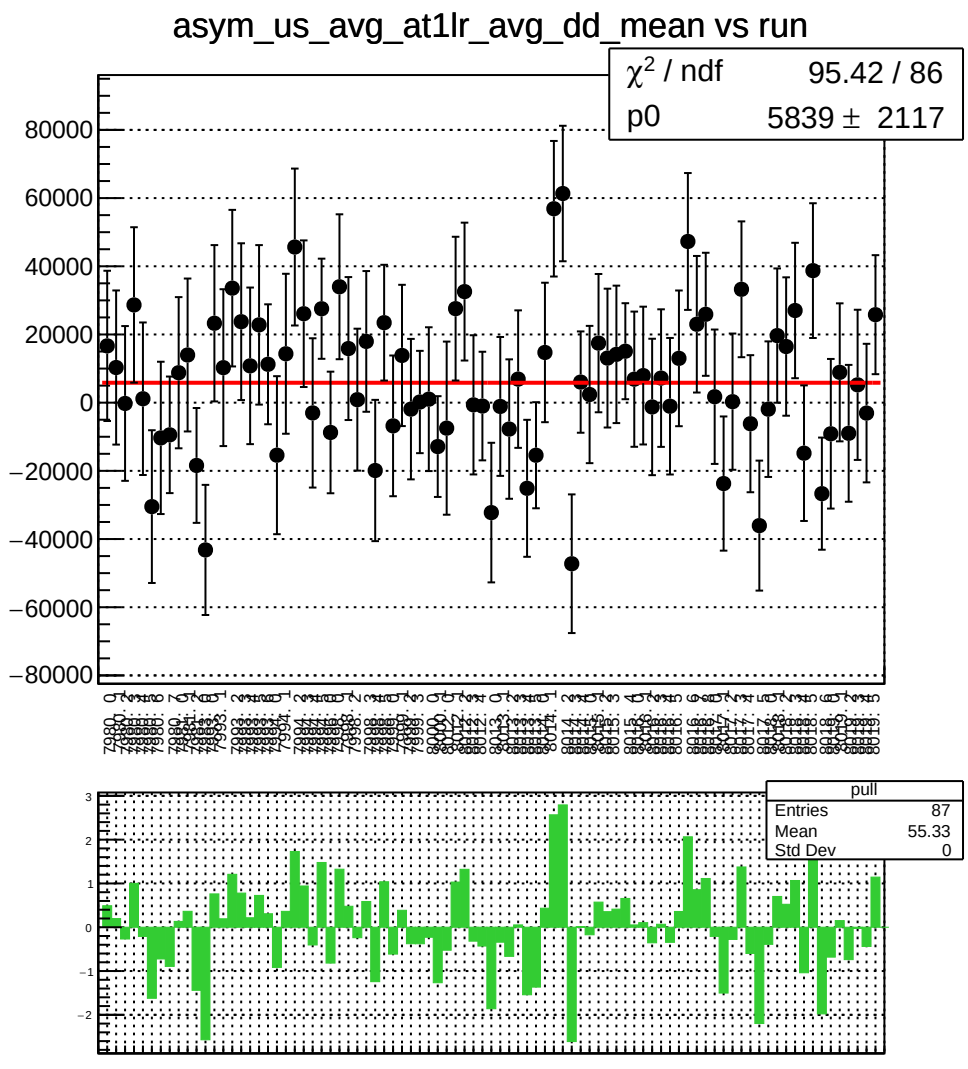

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 94.79 / 86
p0 3997 ± 1870
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 55.61
Std Dev 0
2
1
0
−1
−2

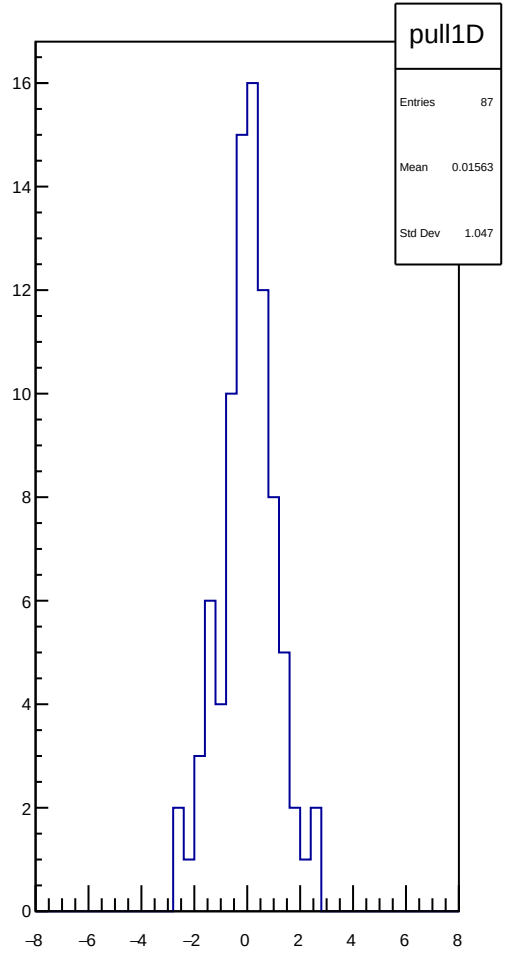

pull1D
Entries 87
Mean 0.01727
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

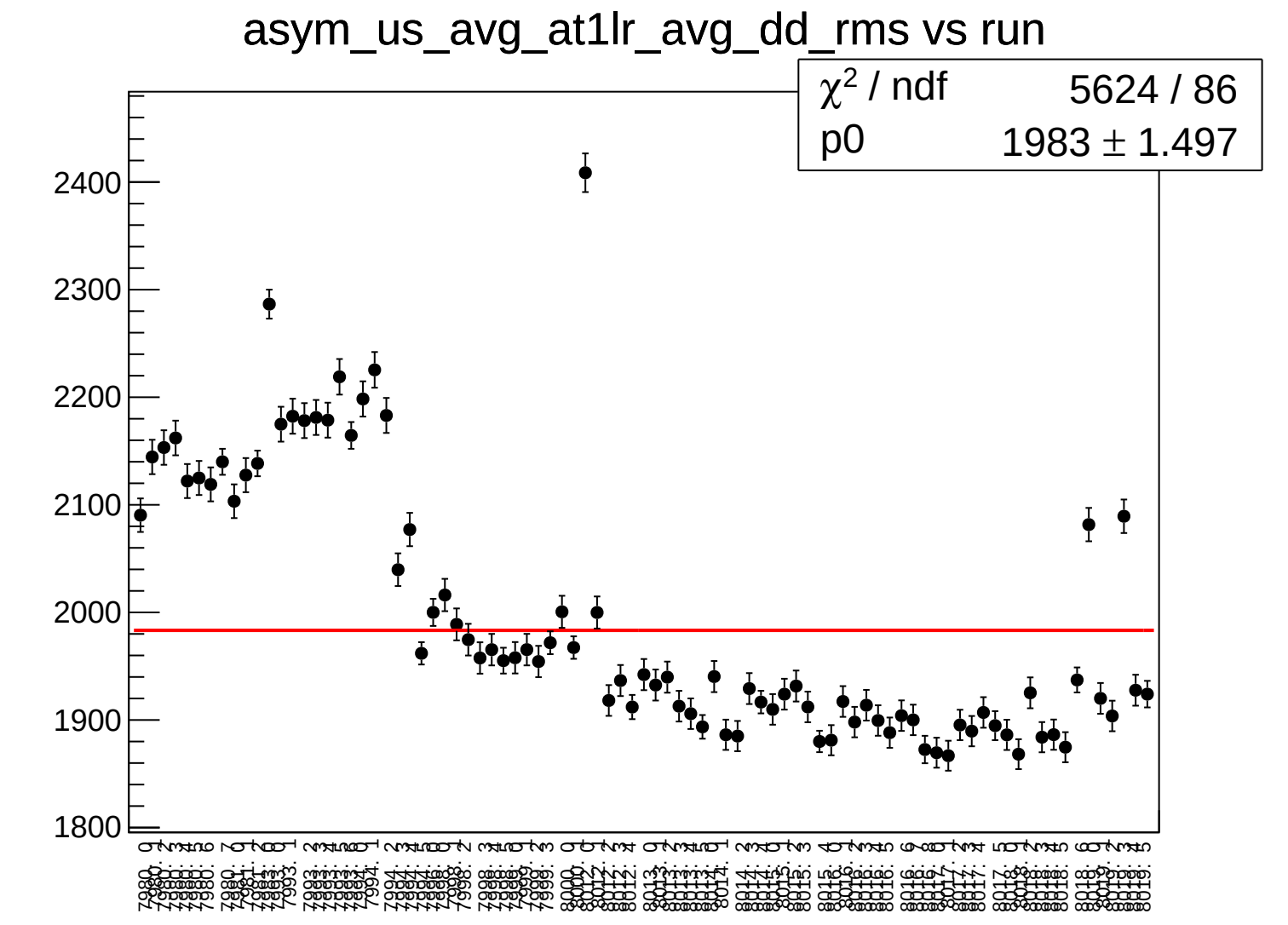

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 317.7 / 86
p0 1755 ± 1.322
1950
1900
1850
1800
1750
1700

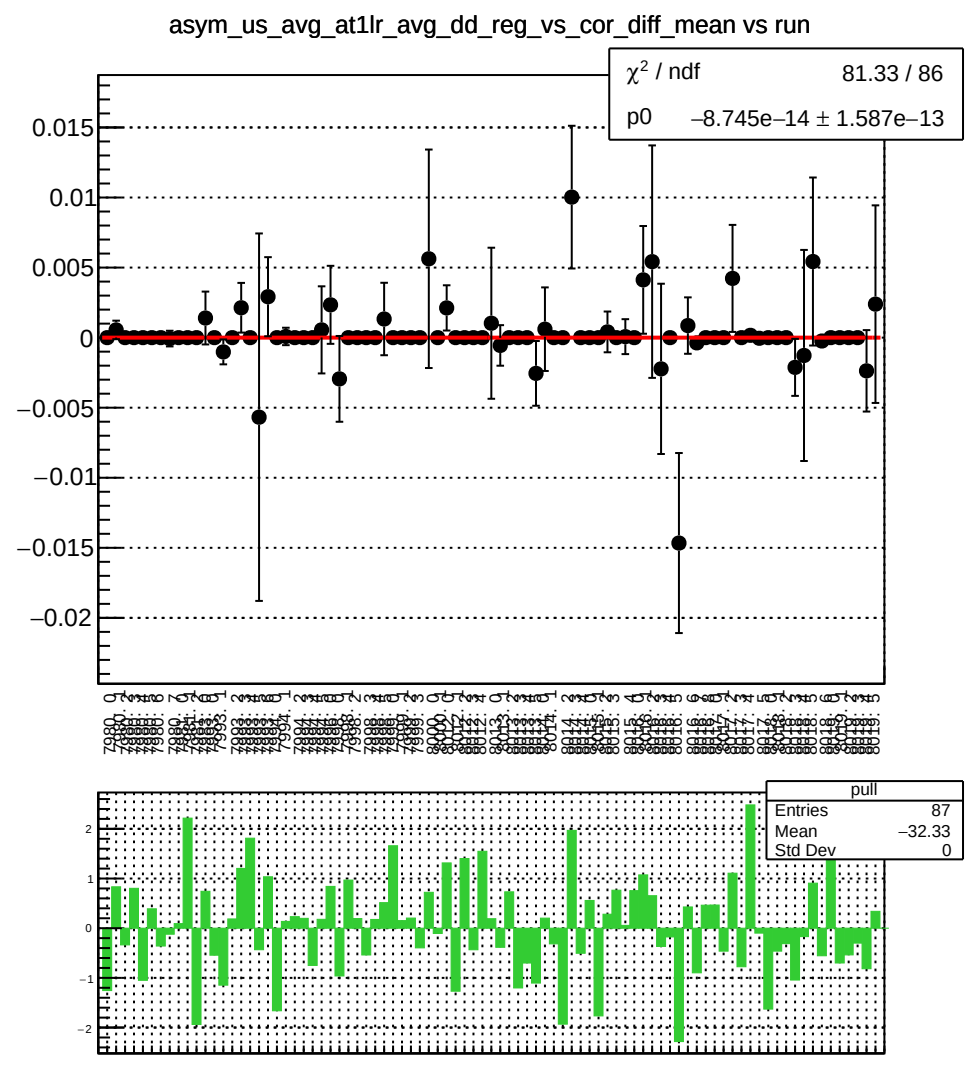

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.26 / 86
p0 −1721 ± 943.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 87
Mean 26.48
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.007884
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

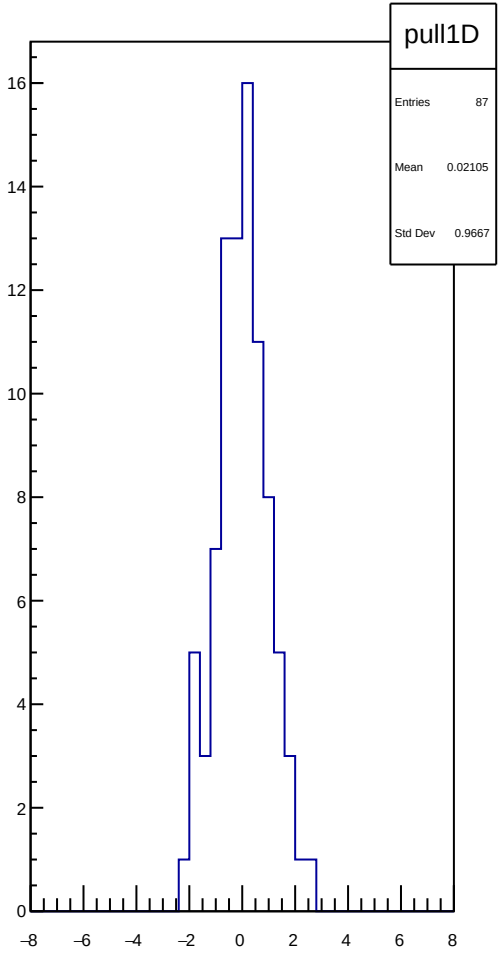

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.054e+04 / 86
p0 872.1 ± 0.6669
1200
1100
1000
900
800
700

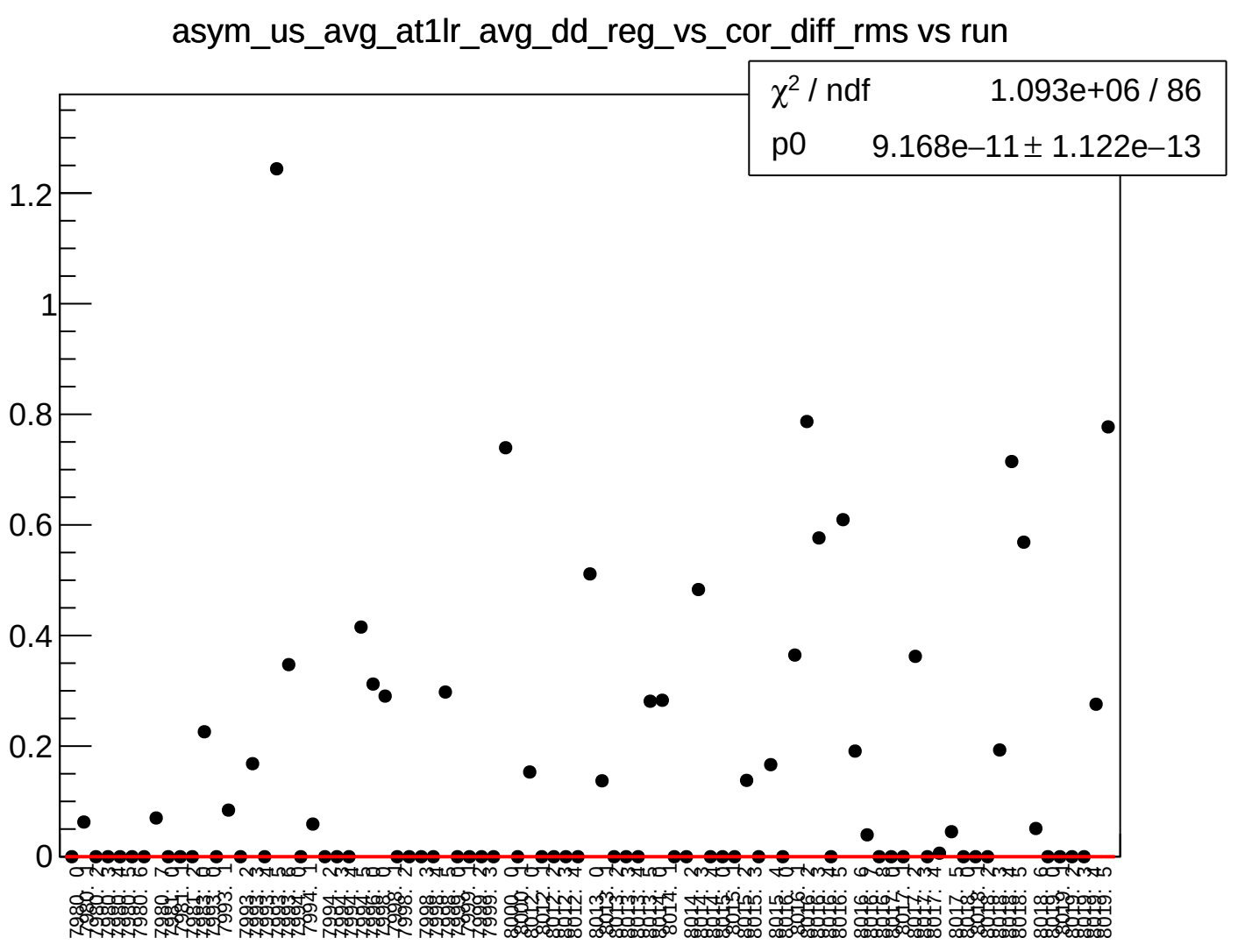

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 95.42 / 86
p0 5839 ± 2117
pull
Entries 87
Mean 55.33
Std Dev 0

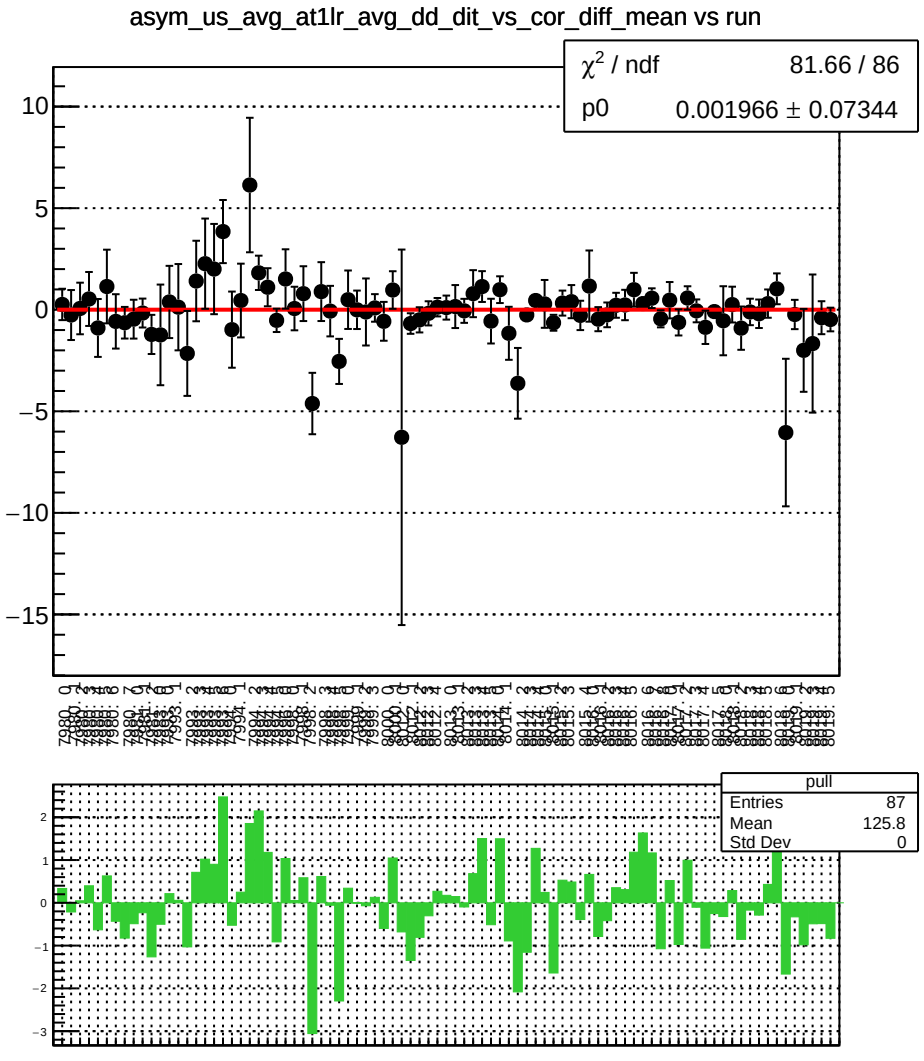

pull1D
Entries 87
Mean 0.01563
Std Dev 1.047

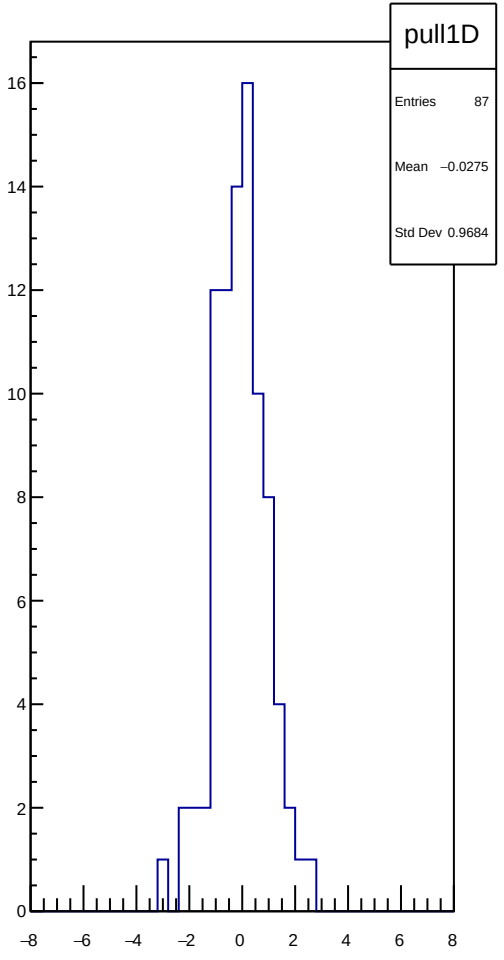

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 5624 / 86
p0 1983 ± 1.497
2400
2300
2200
2100
2000
1900
1800

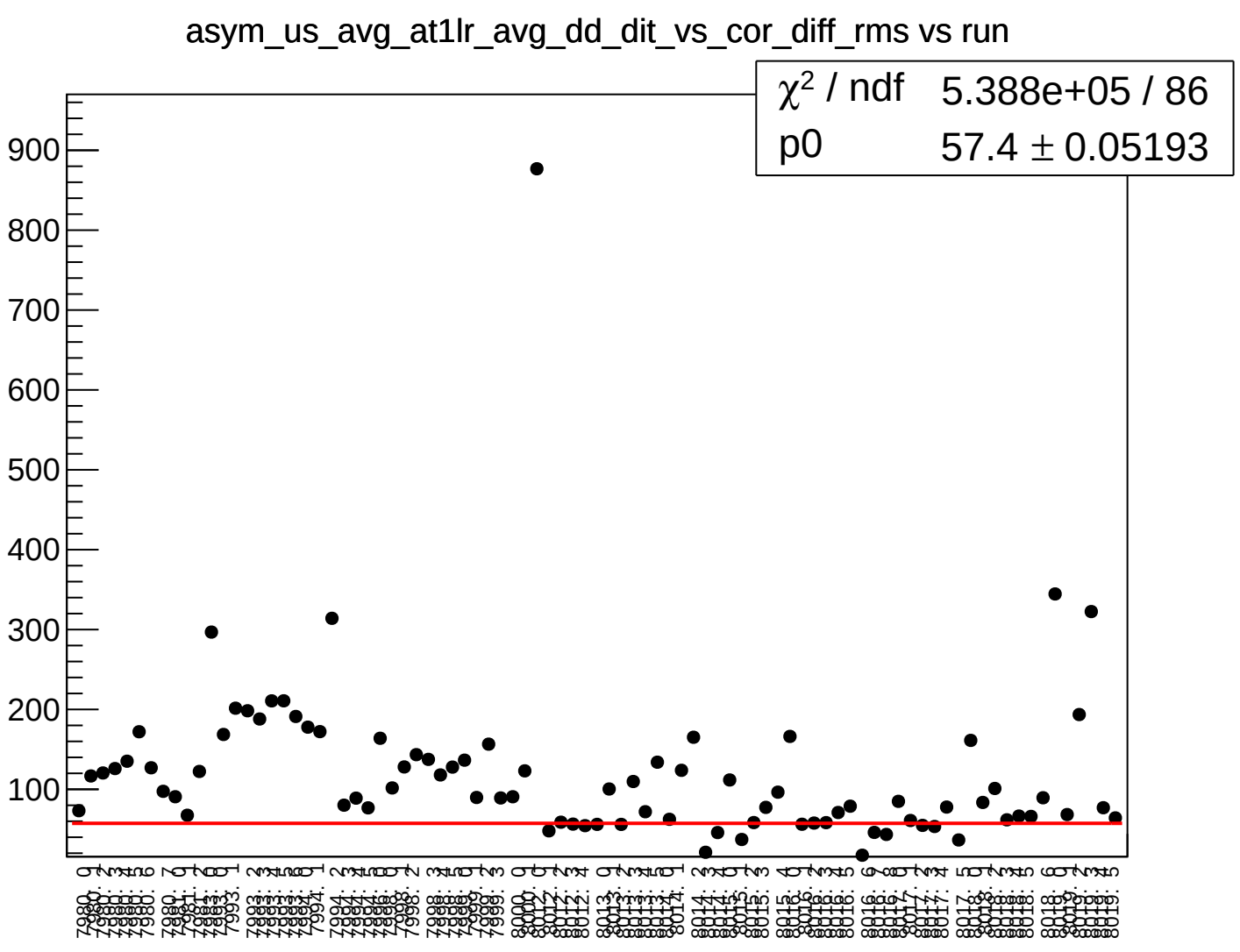

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.33 / 86
p0 −8.745e−14 ± 1.587e−13
pull
Entries 87
Mean −32.33
Std Dev 0

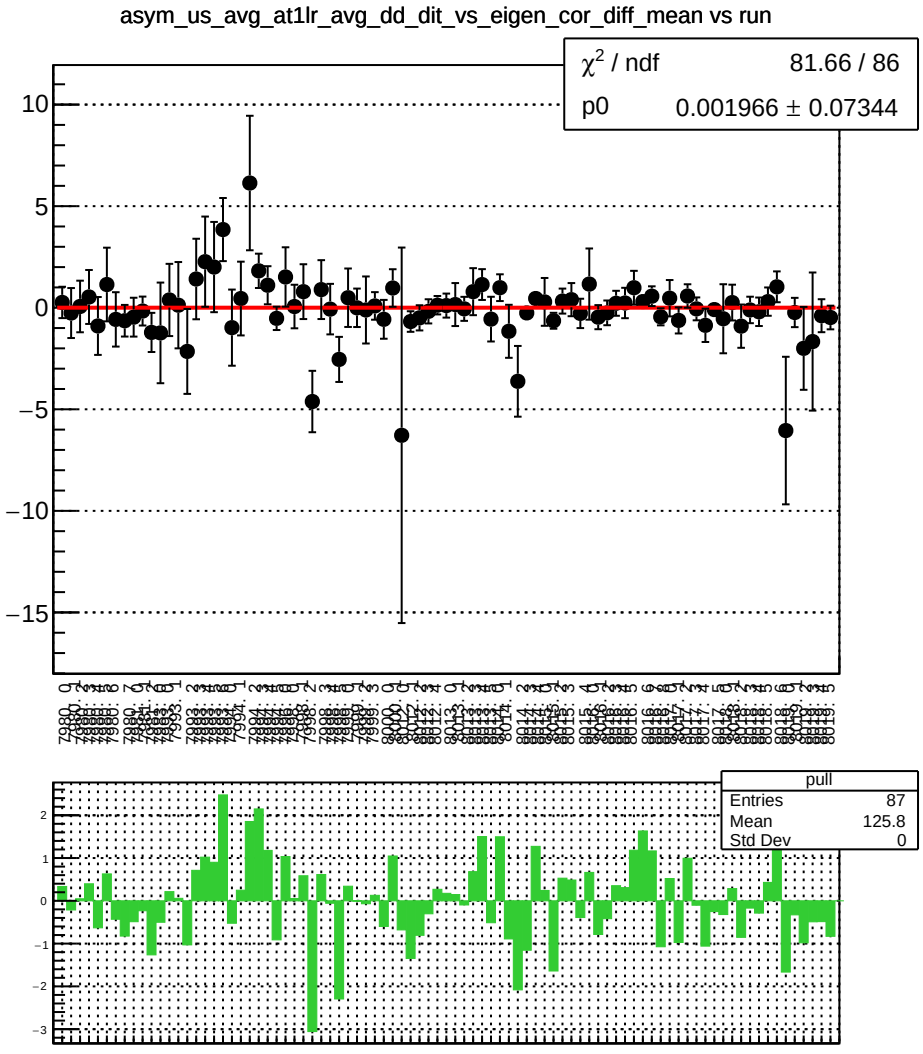

pull1D
Entries 87
Mean 0.02105
Std Dev 0.9667

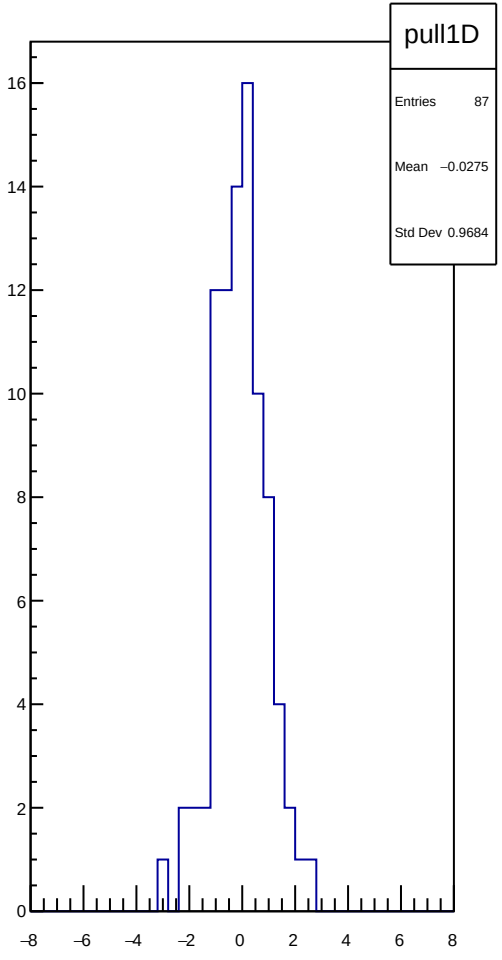

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.093e+06 / 86
p0 9.168e−11 ± 1.122e−13
1.2
1
0.8
0.6
0.4
0.2
0

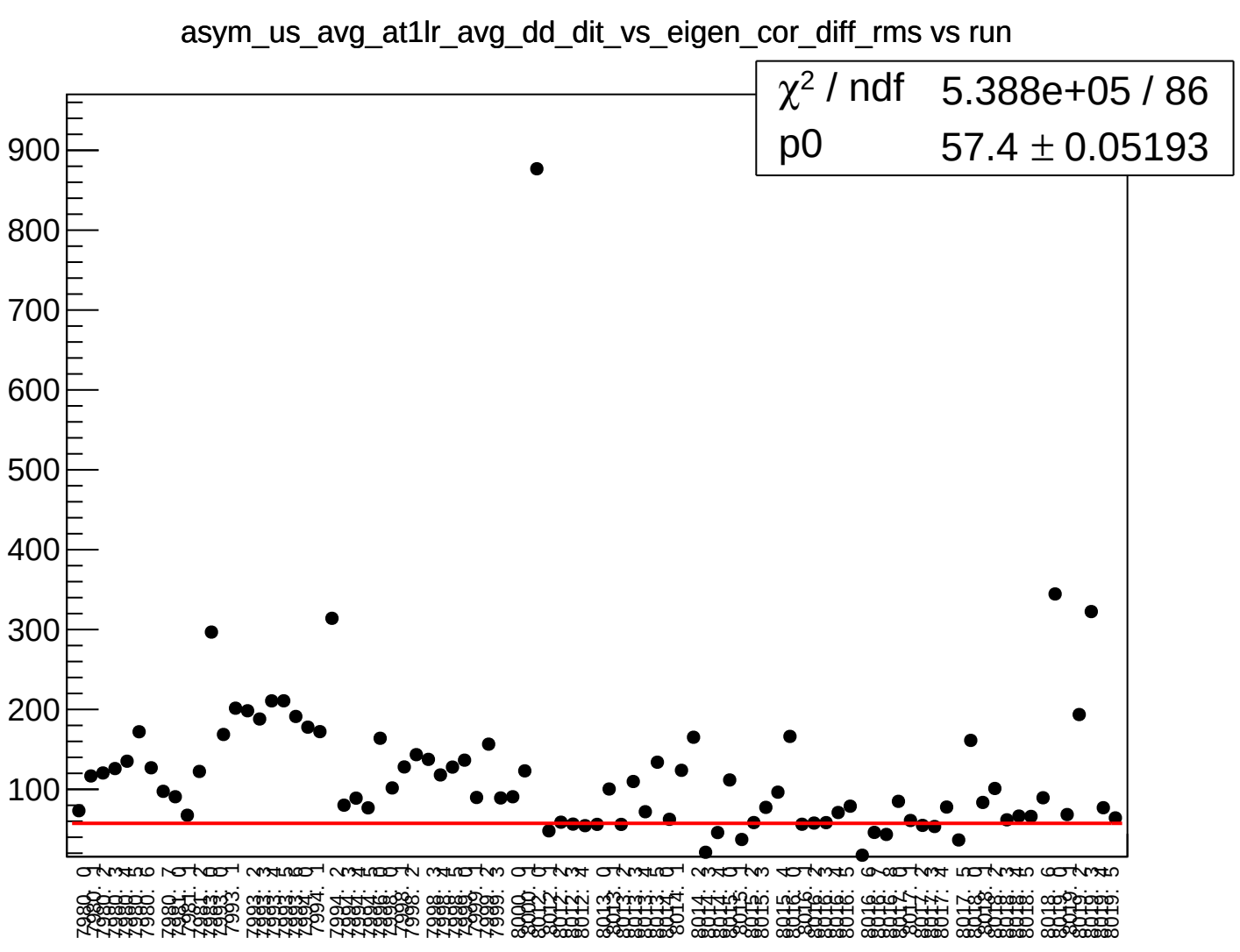

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.66 / 86
p0 0.001966 ± 0.07344
pull
Entries 87
Mean 125.8
Std Dev 0

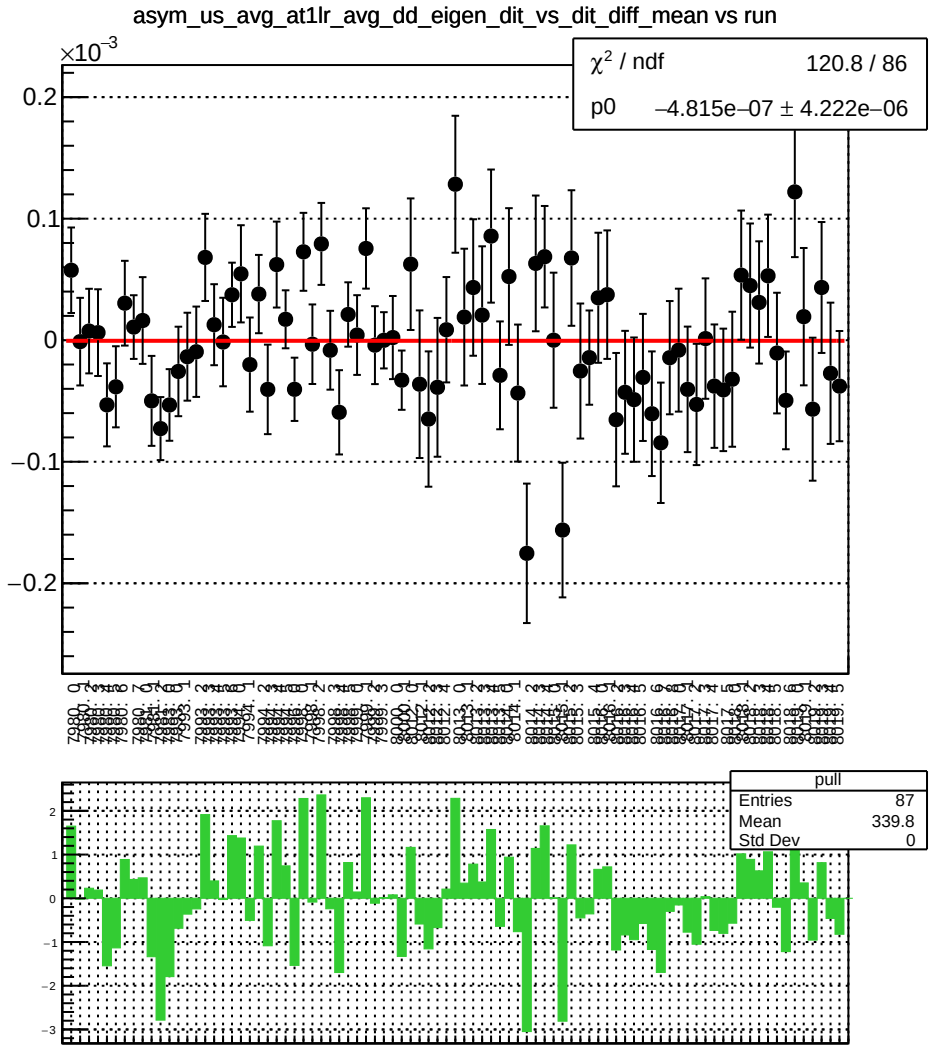

pull1D
Entries 87
Mean −0.0275
Std Dev 0.9684

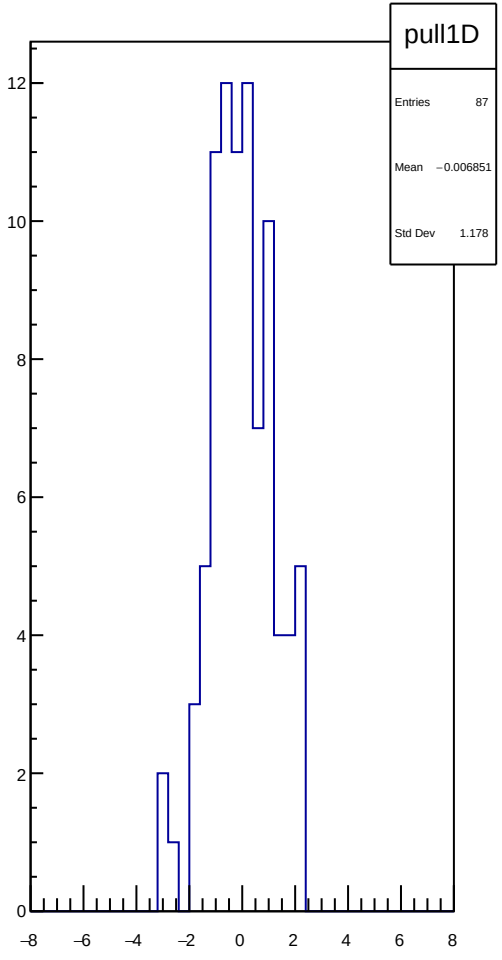

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.388e+05 / 86
p0 57.4 ± 0.05193
900
800
700
600
500
400
300
200
100

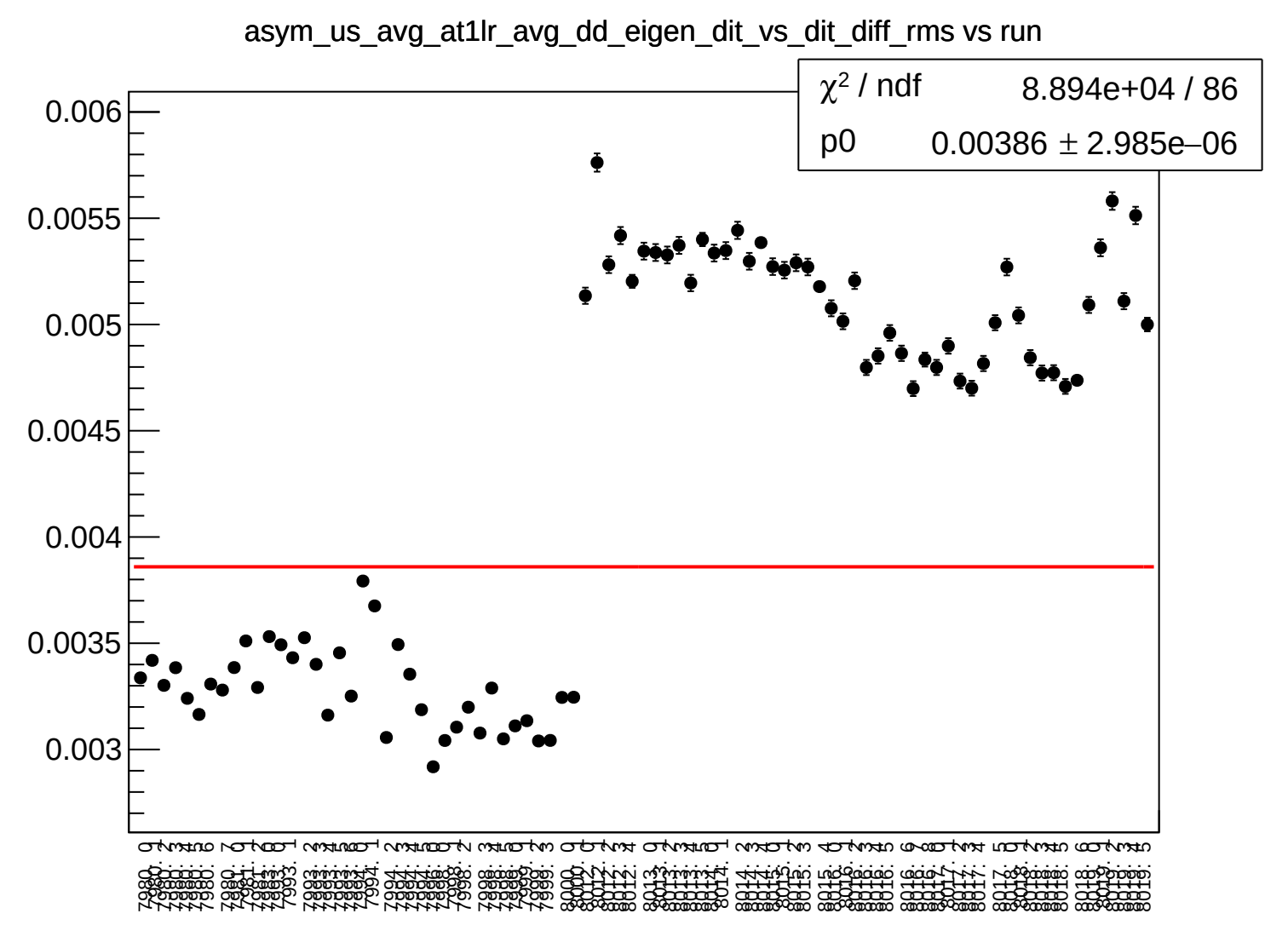

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.66 / 86
p0 0.001966 ± 0.07344
pull
Entries 87
Mean 125.8
Std Dev 0

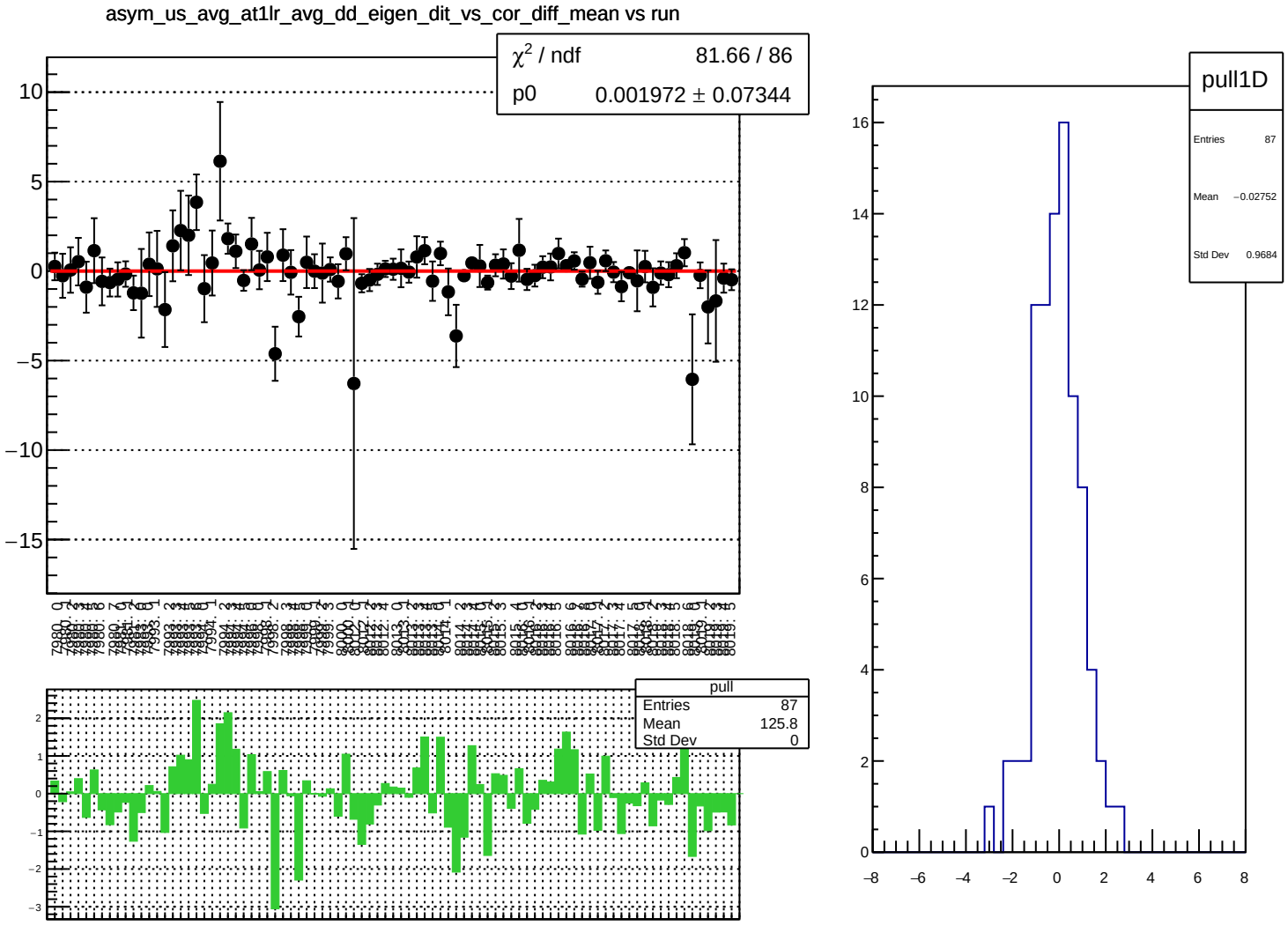

pull1D
Entries 87
Mean −0.0275
Std Dev 0.9684

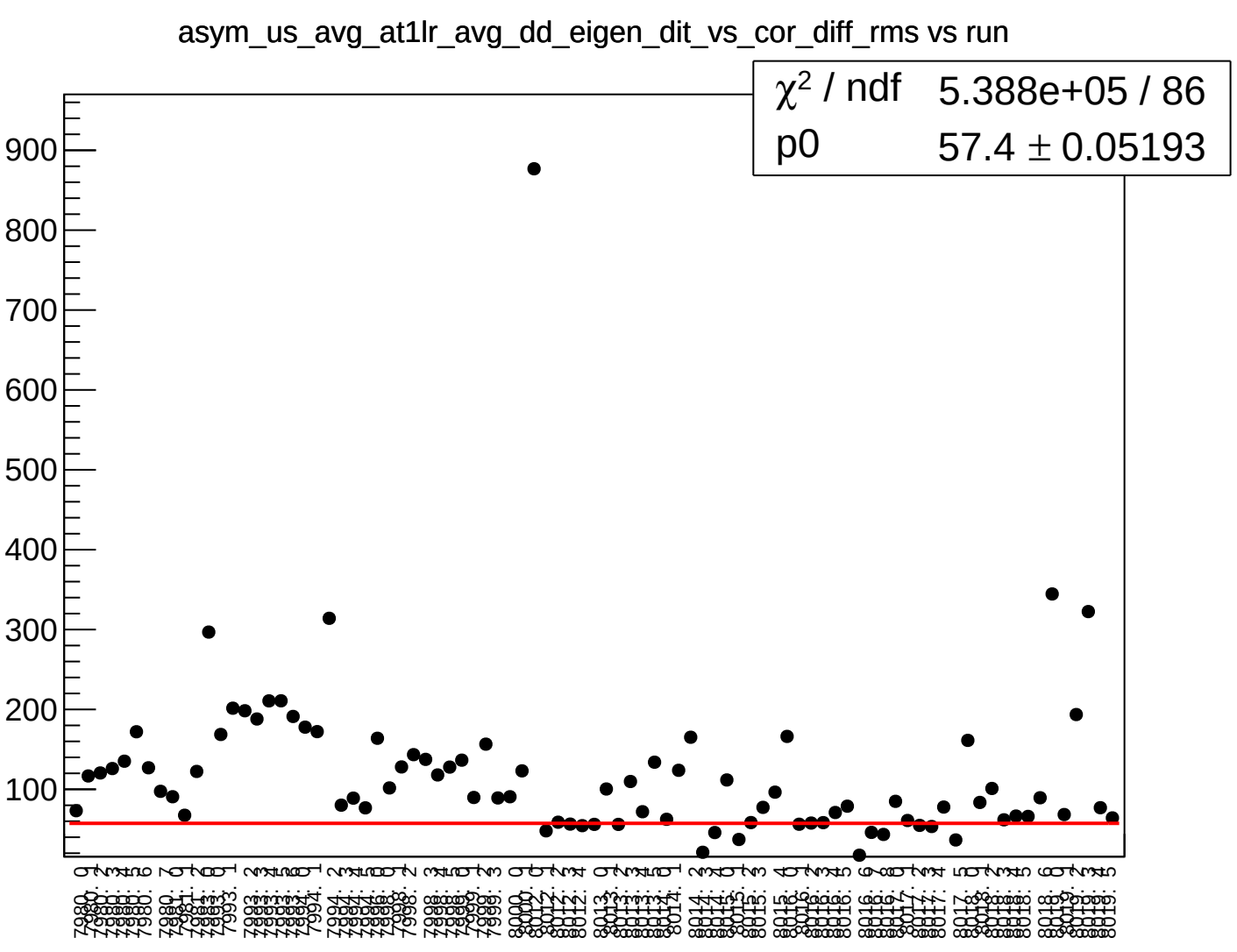

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.388e+05 / 86
p0 57.4 ± 0.05193
900
800
700
600
500
400
300
200
100

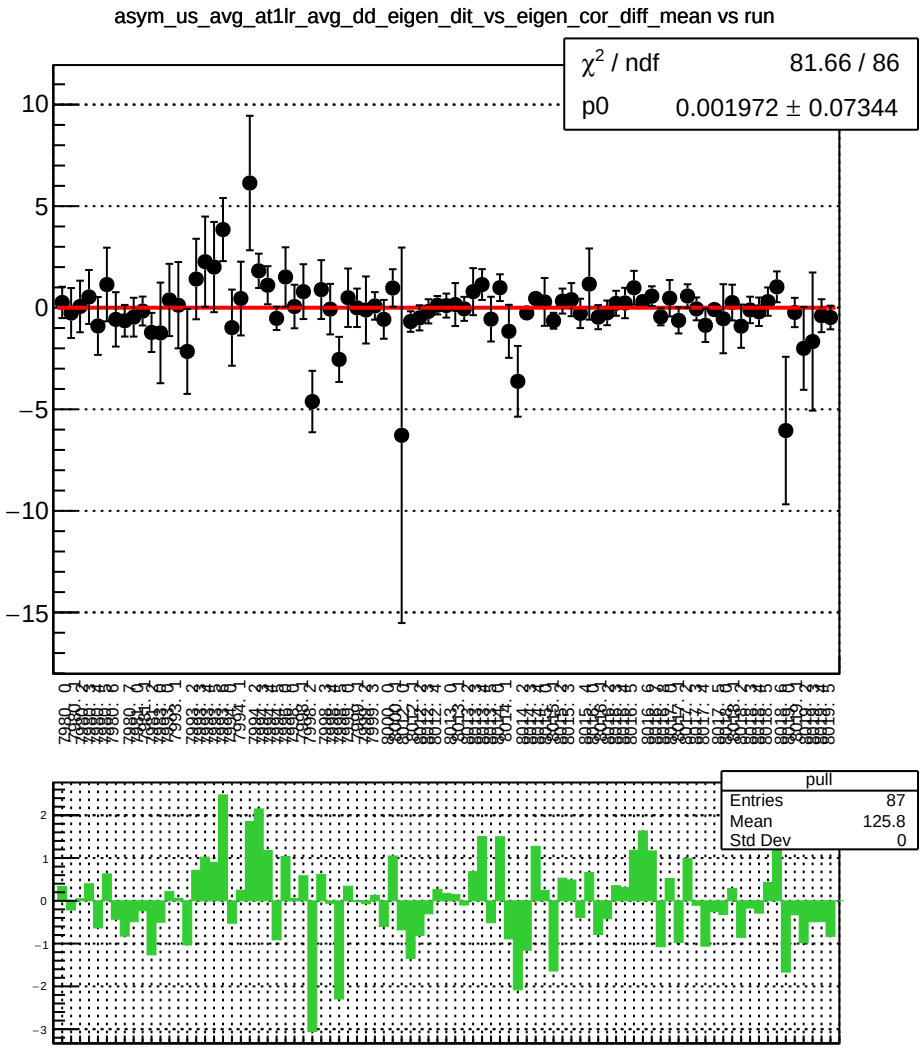

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 120.8 / 86
p0 −4.815e−07 ± 4.222e−06
pull
Entries 87
Mean 339.8
Std Dev 0

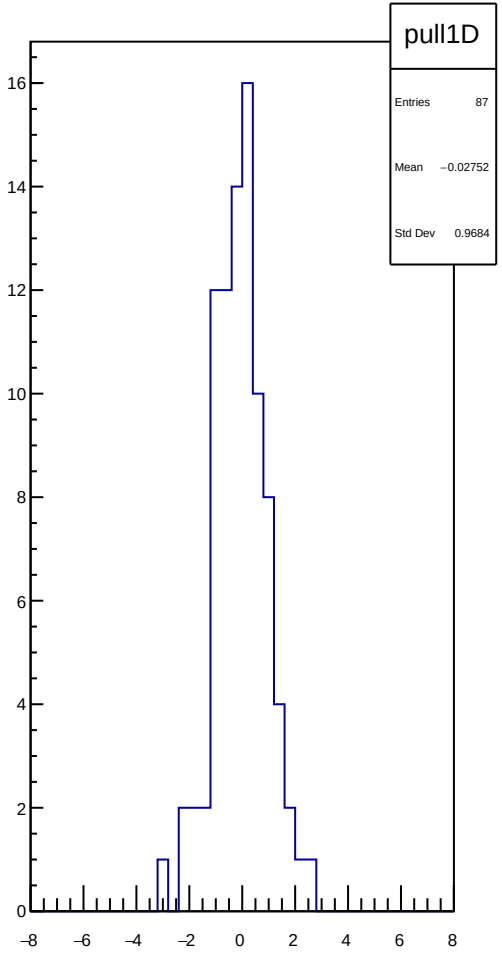

pull1D
Entries 87
Mean −0.006851
Std Dev 1.178

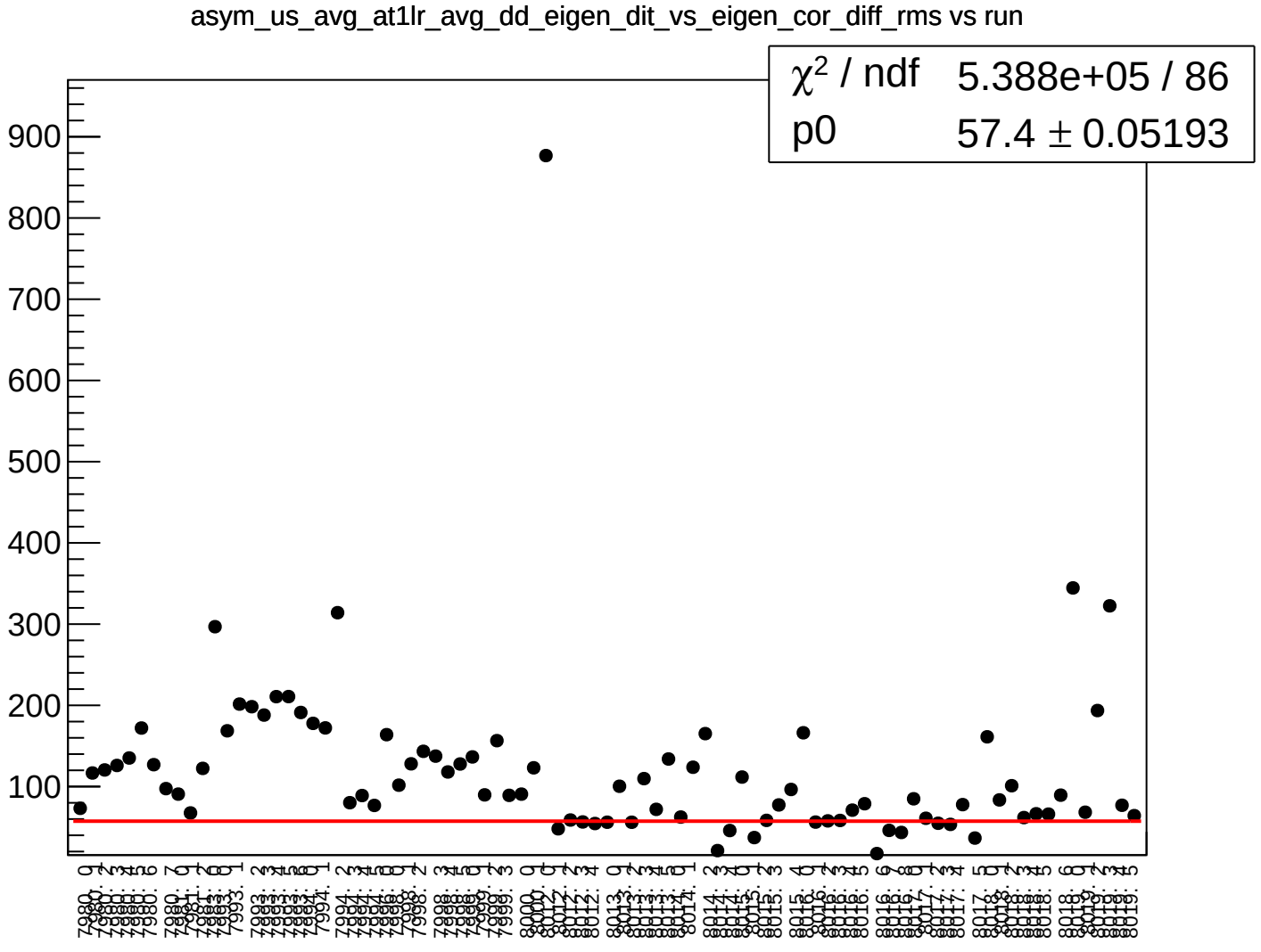

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.894e+04 / 86
p0 0.00386 ± 2.985e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

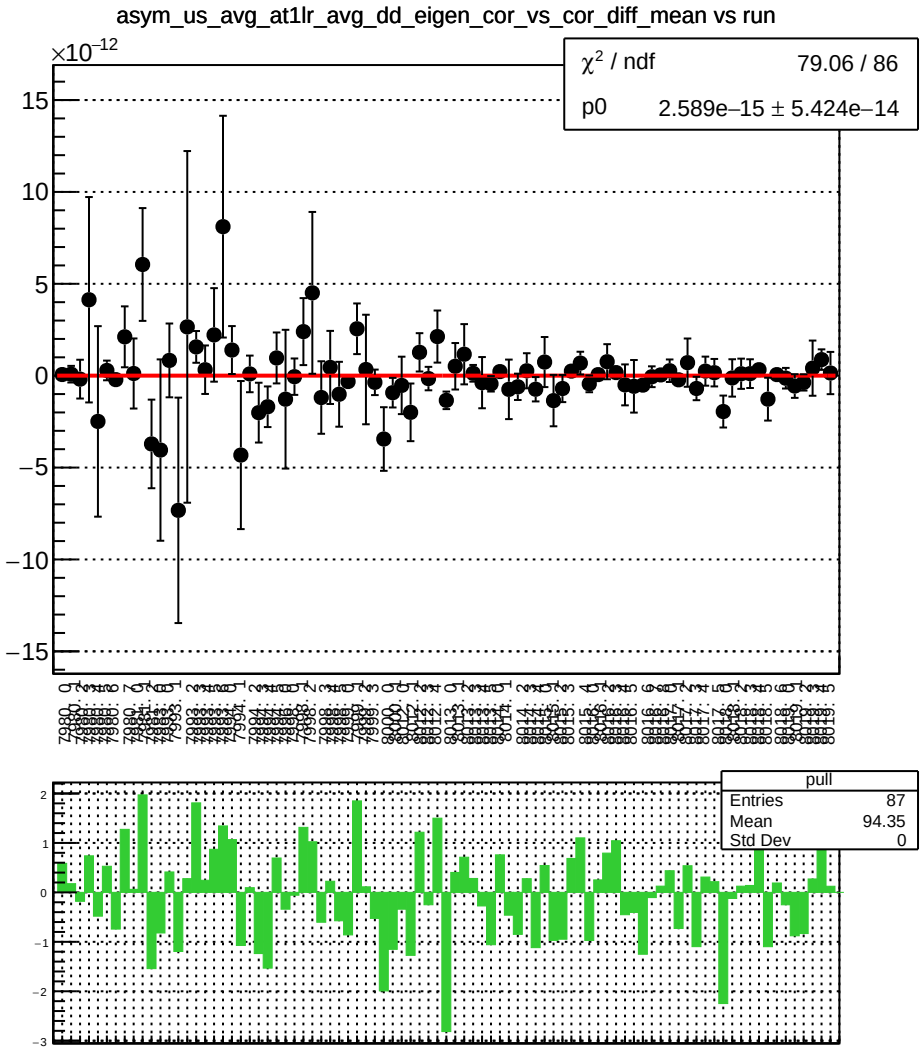

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.66 / 86
p0 0.001972 ± 0.07344
pull
Entries 87
Mean 125.8
Std Dev 0
pull1D
Entries 87
Mean −0.02752
Std Dev 0.9684

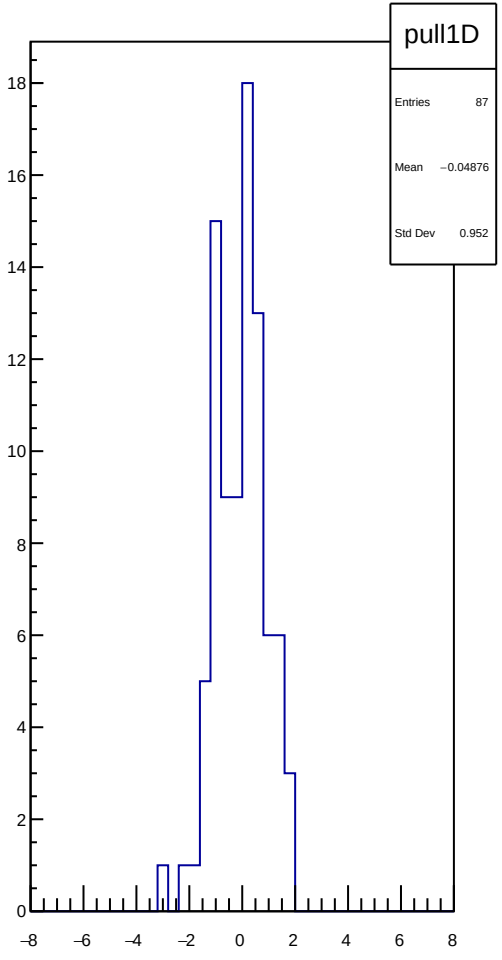

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.388e+05 / 86
p0 57.4 ± 0.05193
900
800
700
600
500
400
300
200
100

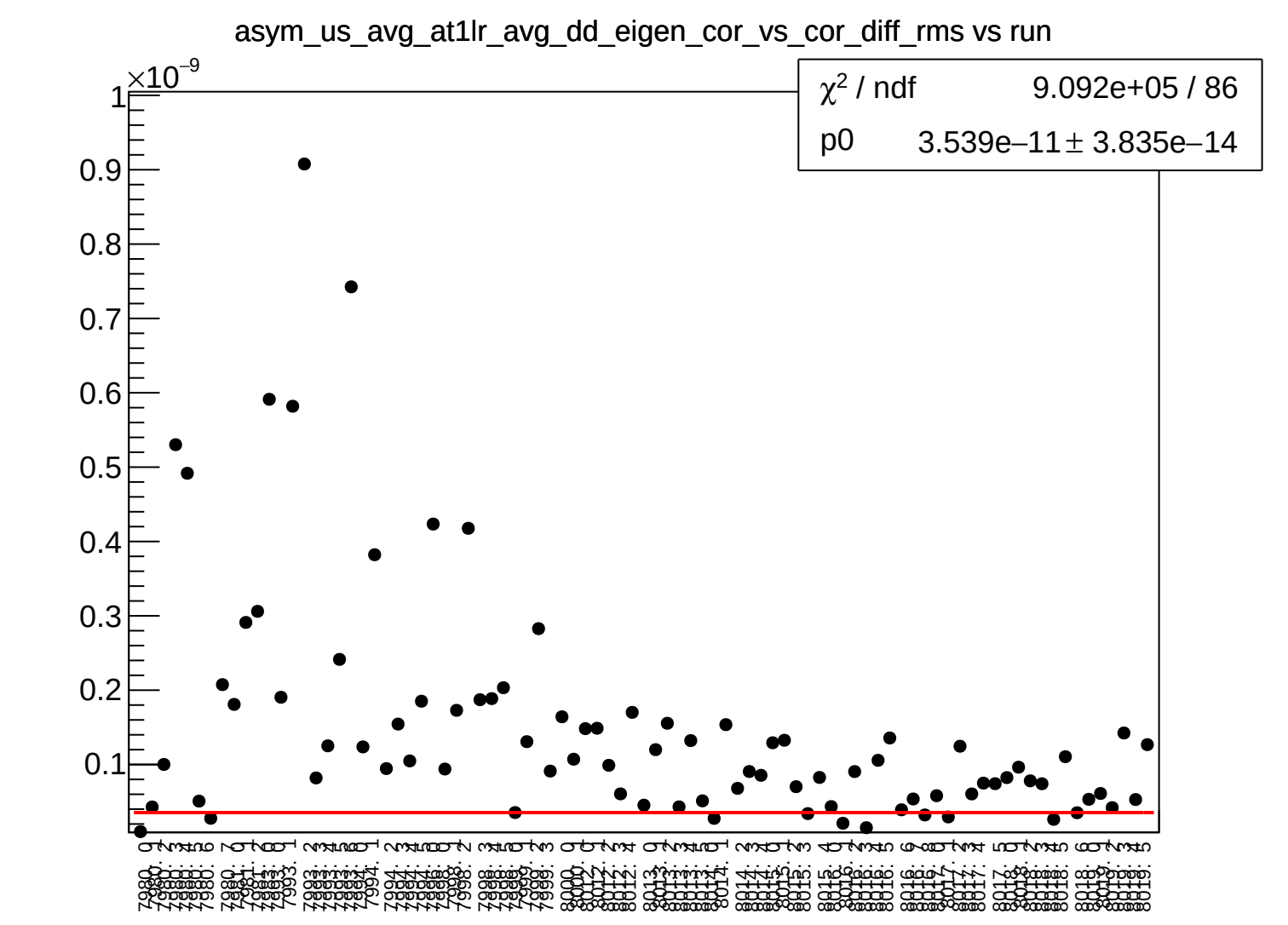

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.66 / 86
p0 0.001972 ± 0.07344
pull
Entries 87
Mean 125.8
Std Dev 0

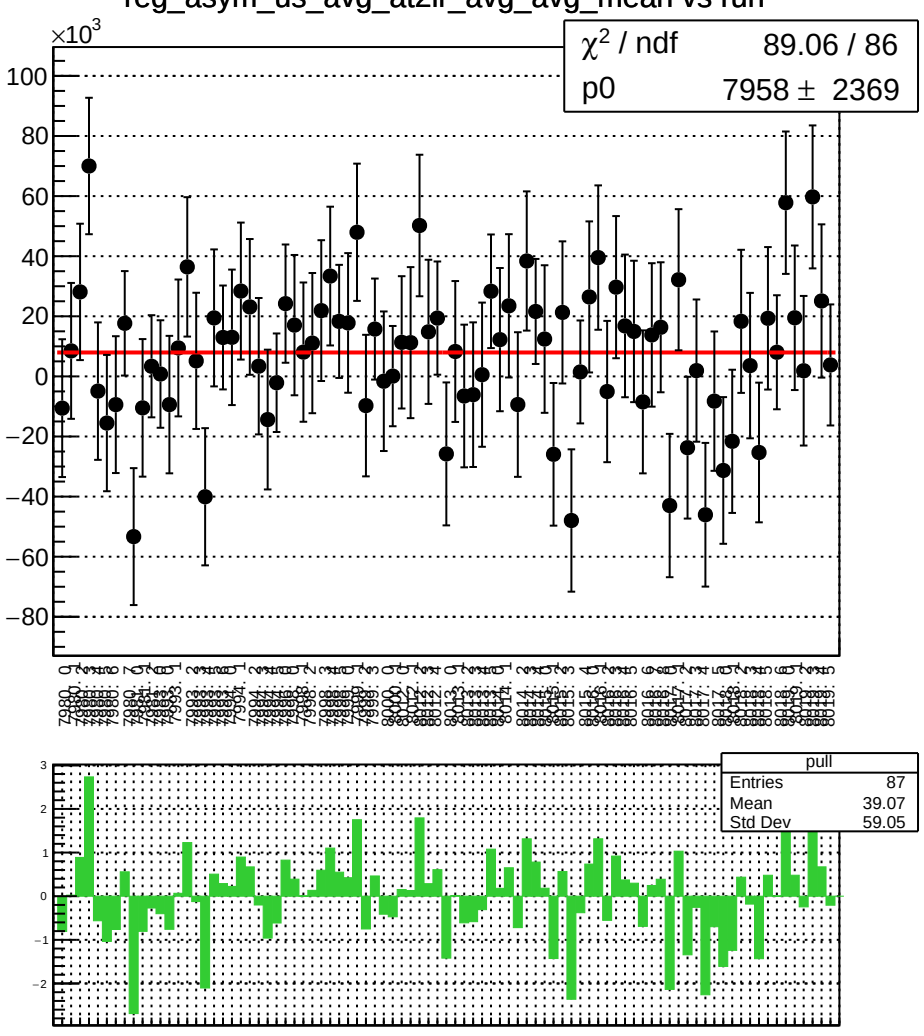

pull1D
Entries 87
Mean −0.02752
Std Dev 0.9684

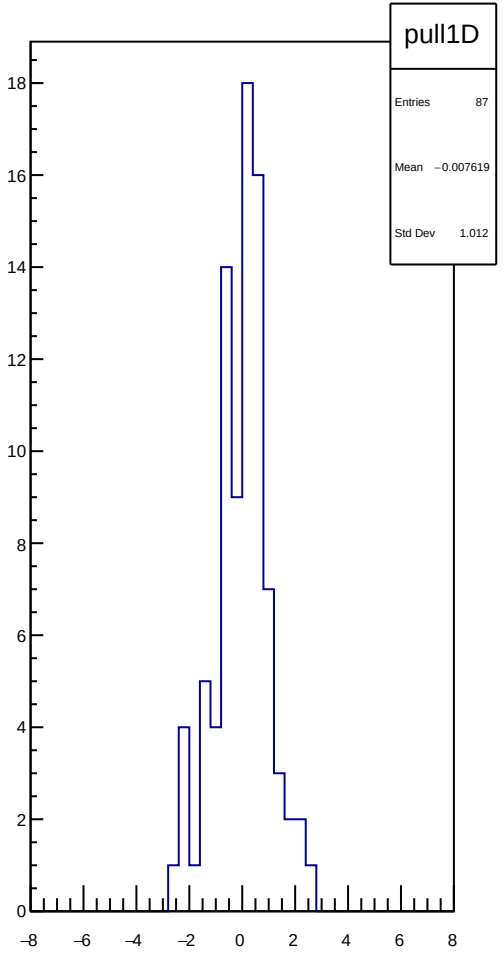

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.388e+05 / 86
p0 57.4 ± 0.05193
900
800
700
600
500
400
300
200
100

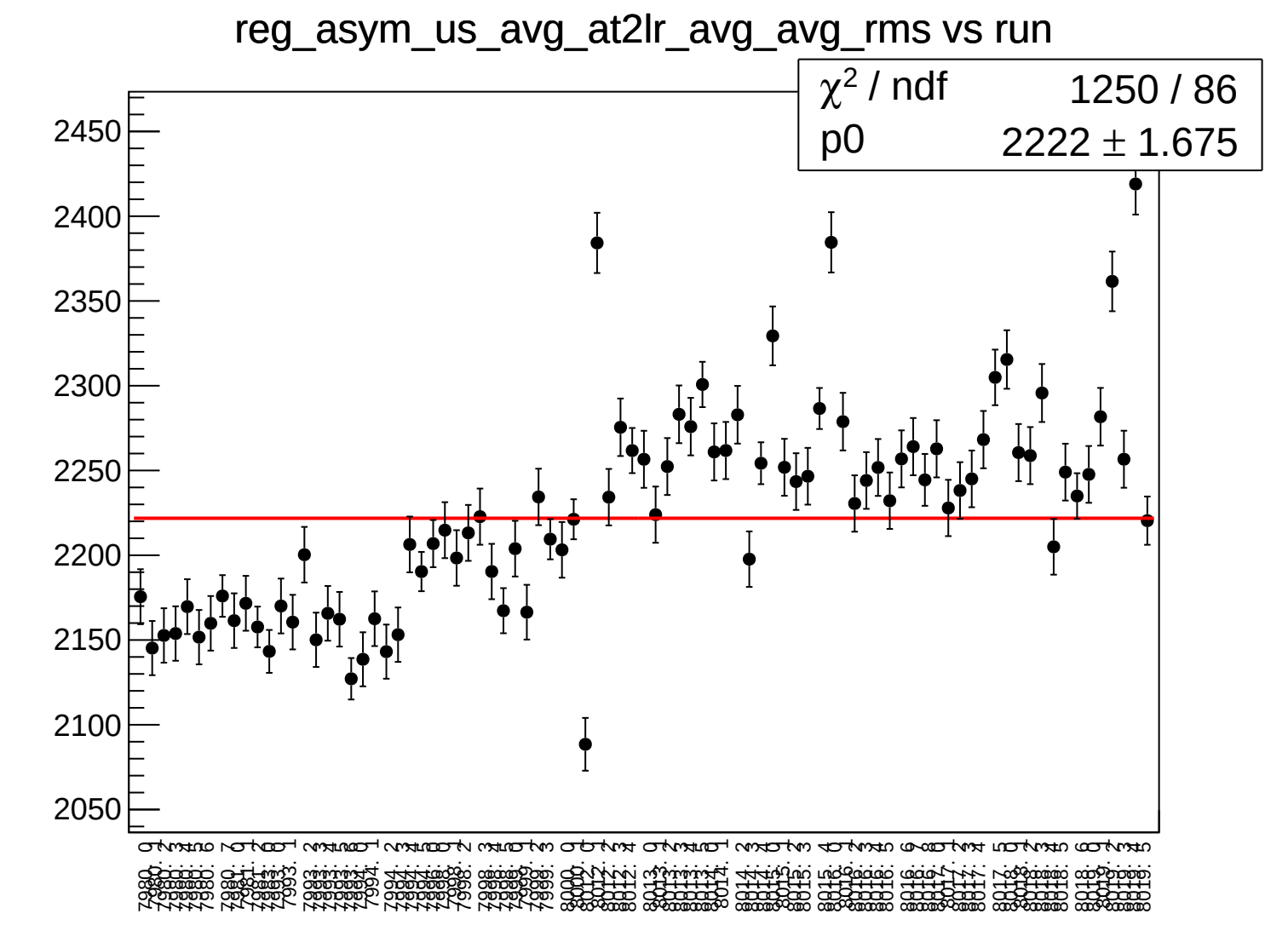

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.06 / 86
p0 2.589e−15 ± 5.424e−14
pull
Entries 87
Mean 94.35
Std Dev 0

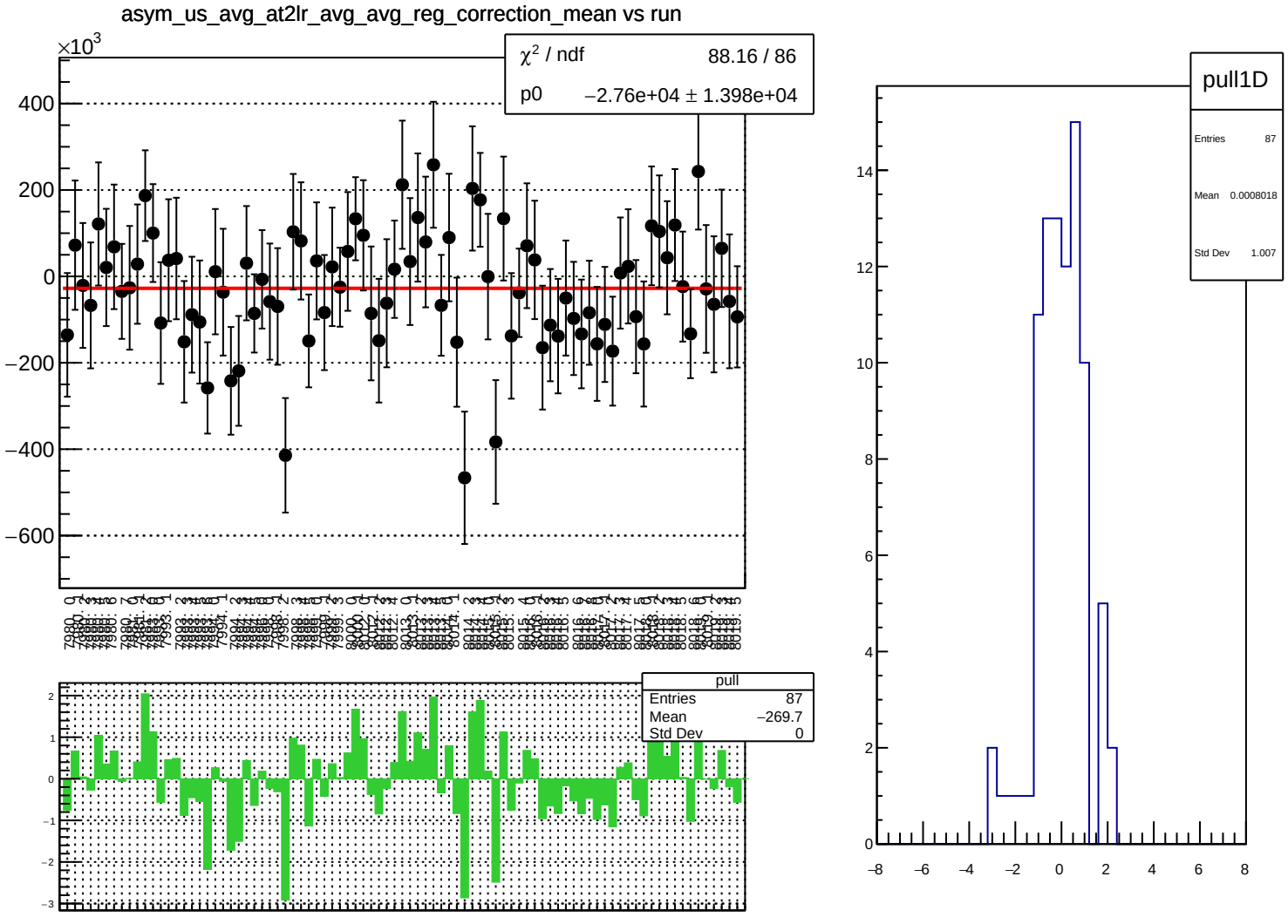

pull1D
Entries 87
Mean −0.04876
Std Dev 0.952

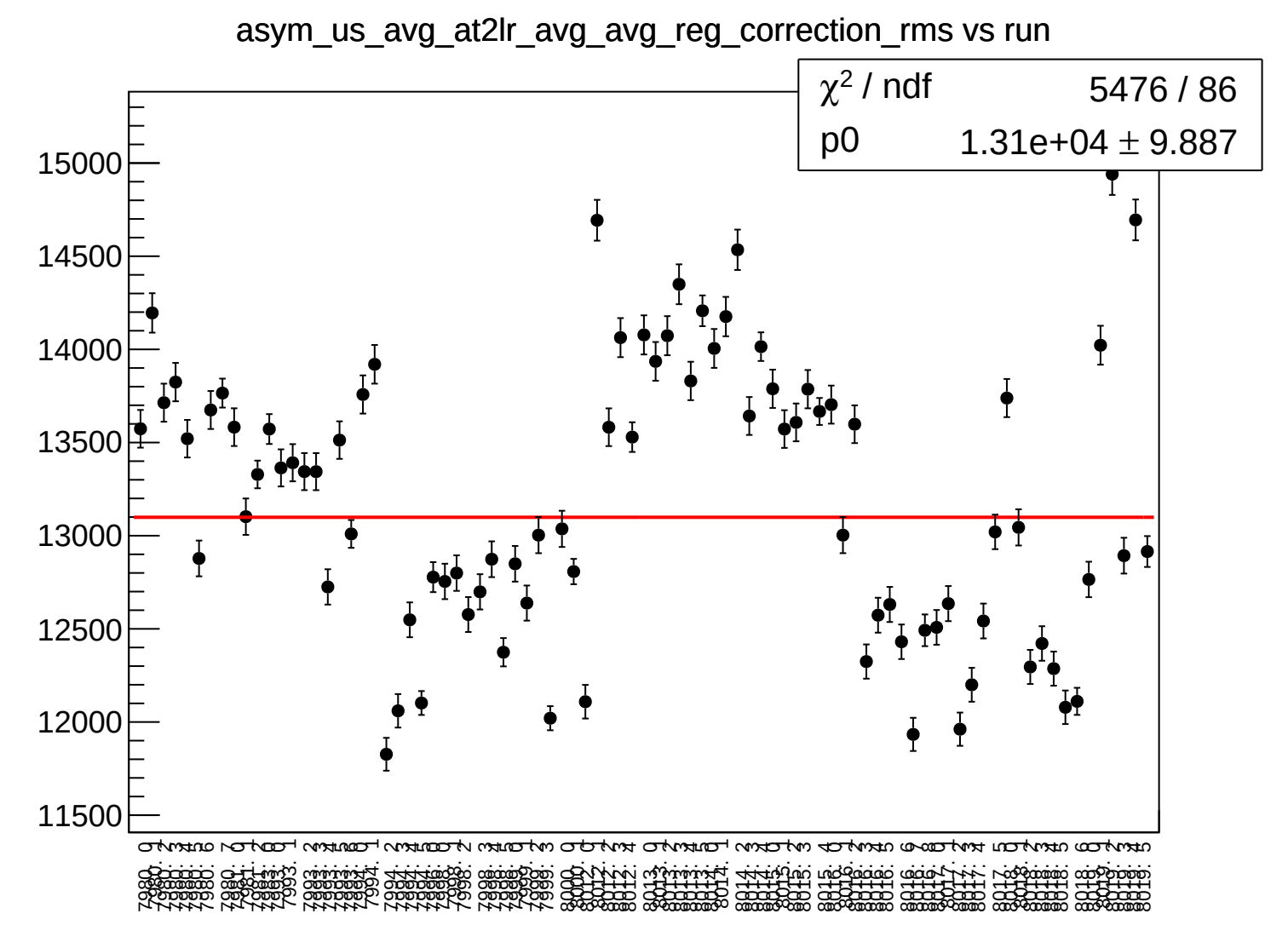

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.092e+05 / 86
p0 3.539e−11 ± 3.835e−14
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

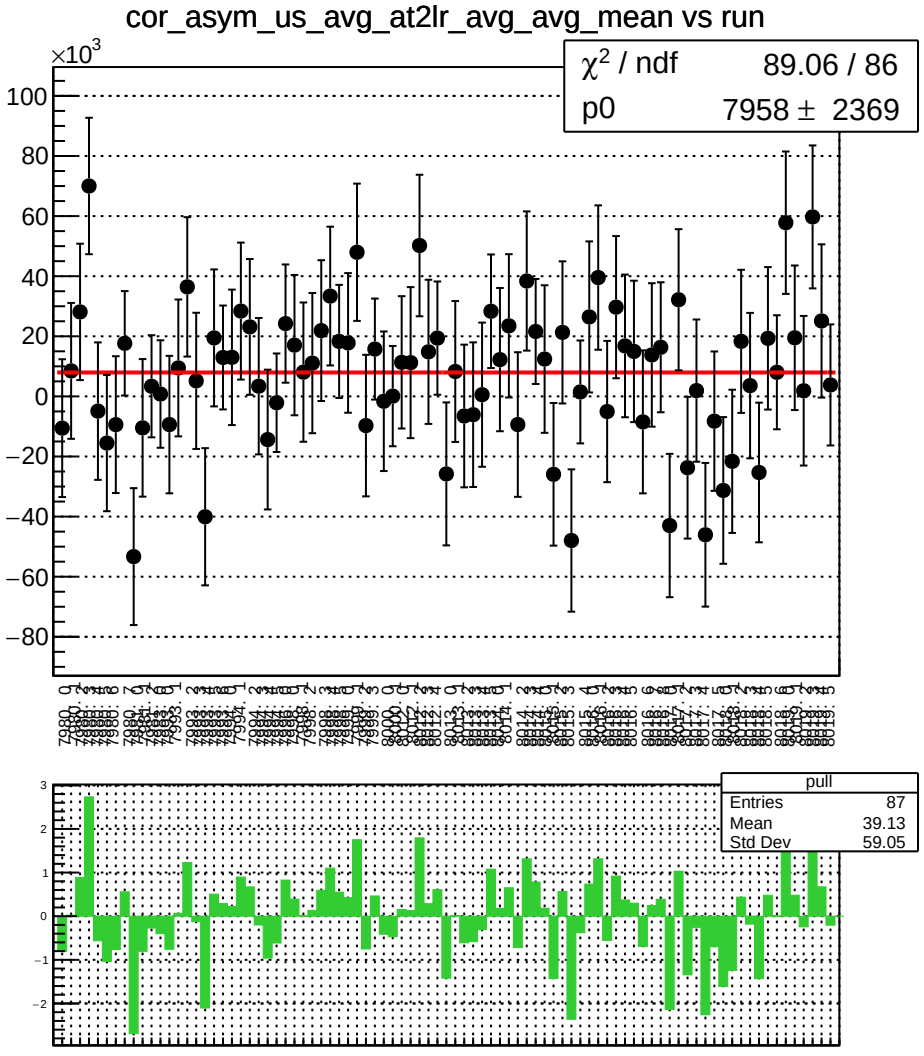

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 89.06 / 86
p0 7958 ± 2369
×10³
pull
Entries 87
Mean 39.07
Std Dev 59.05

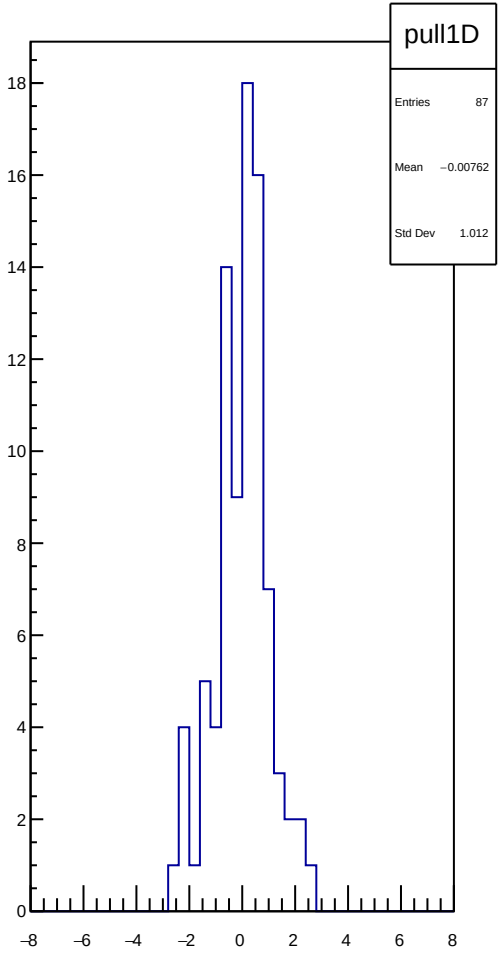

pull1D
Entries 87
Mean −0.007619
Std Dev 1.012

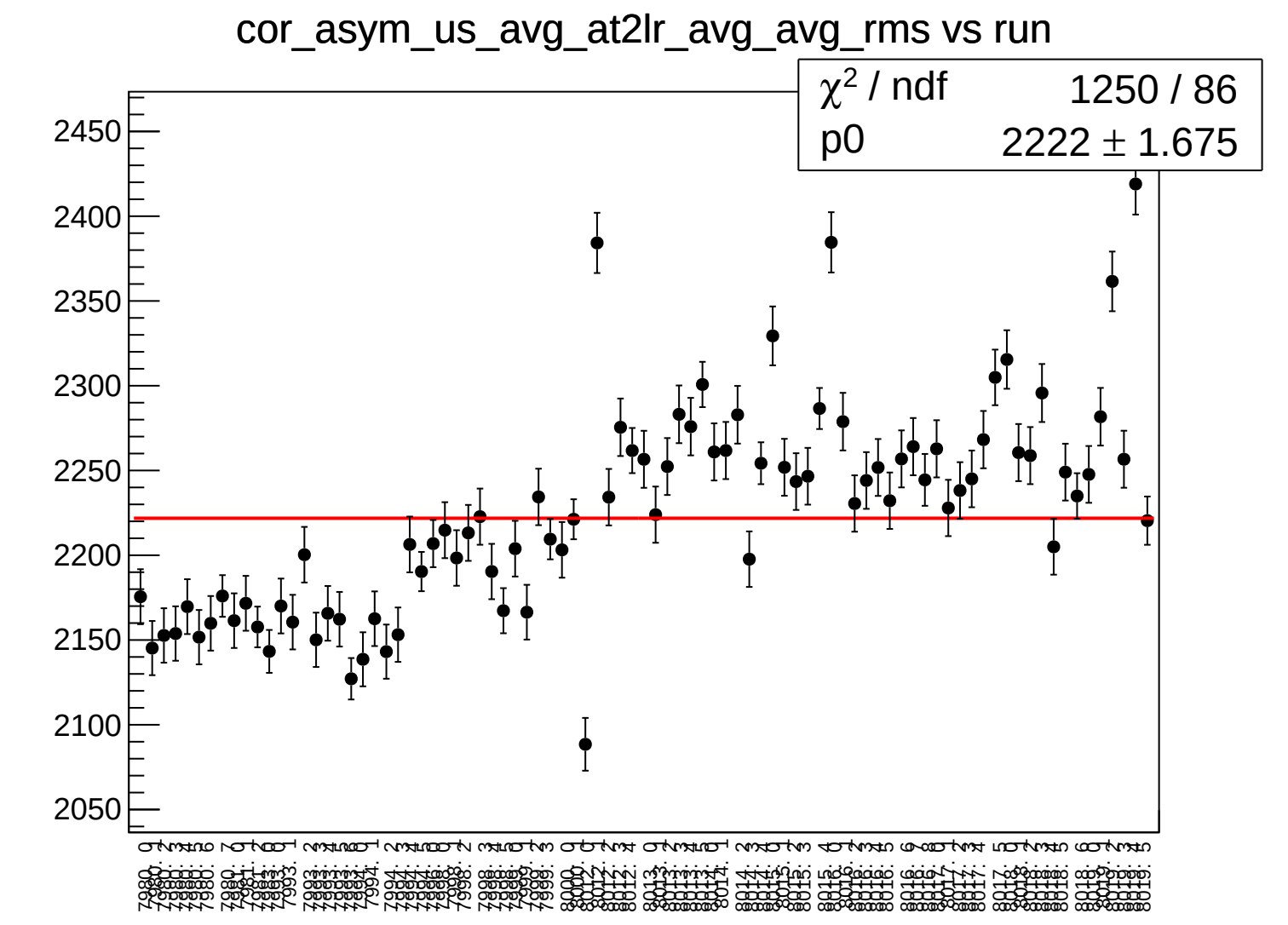

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1250 / 86
p0 2222 ± 1.675
2450
2400
2350
2300
2250
2200
2150
2100
2050

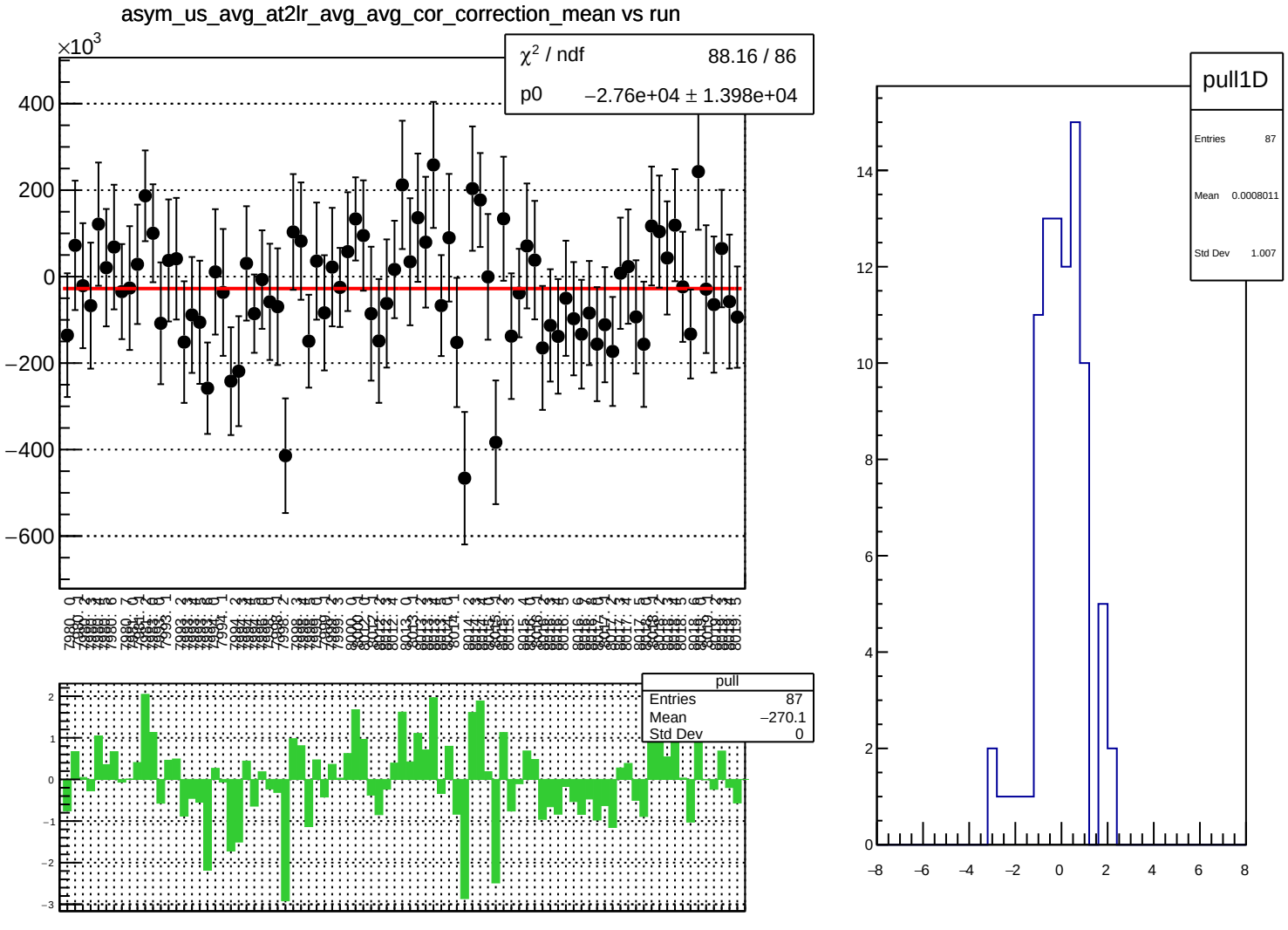

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.16 / 86
p0 −2.76e+04 ± 1.398e+04
400
200
0
−200
−400
−600
pull
Entries 87
Mean −269.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.0008018
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

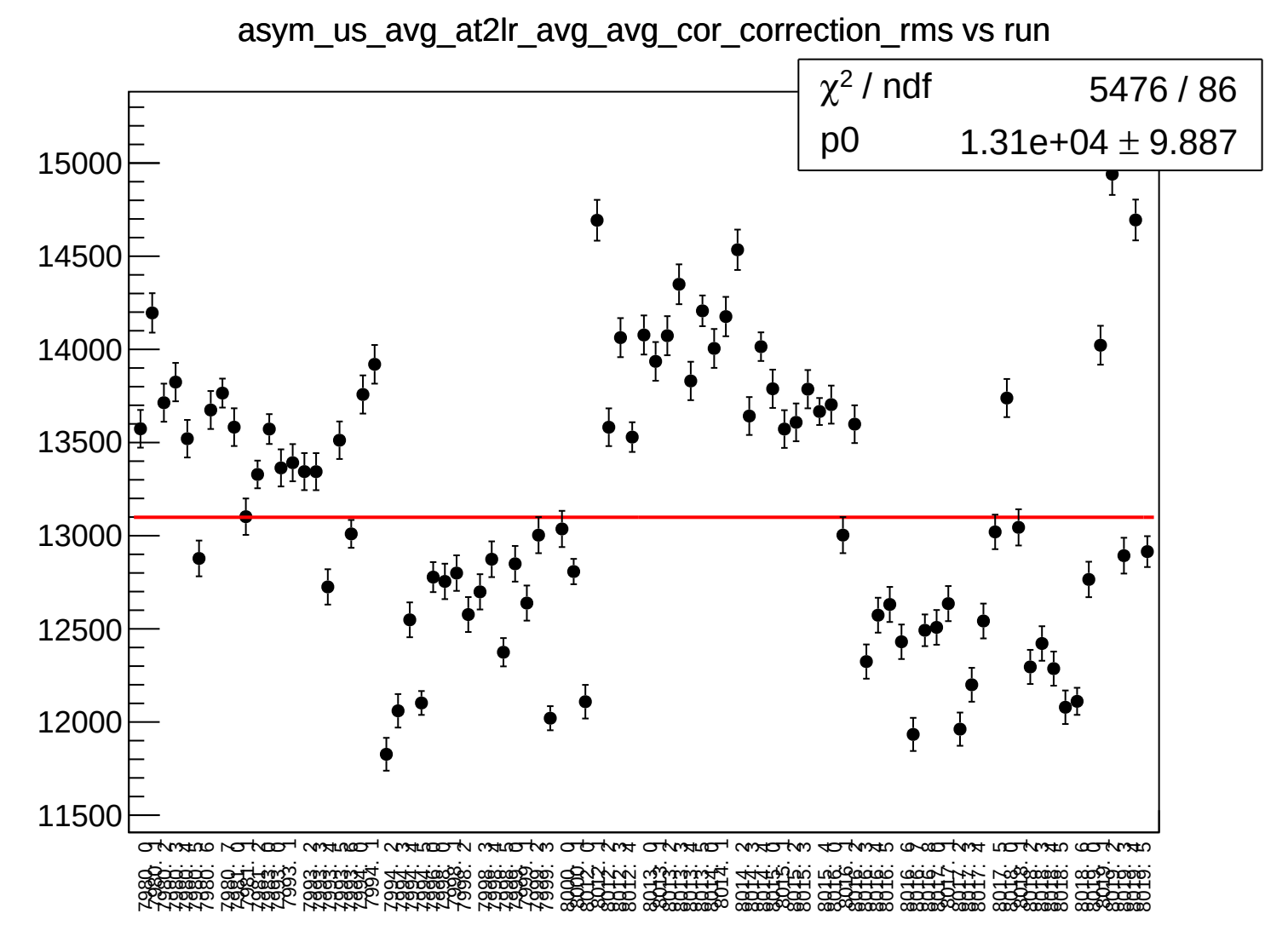

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 5476 / 86
p0 1.31e+04 ± 9.887
15000
14500
14000
13500
13000
12500
12000
11500

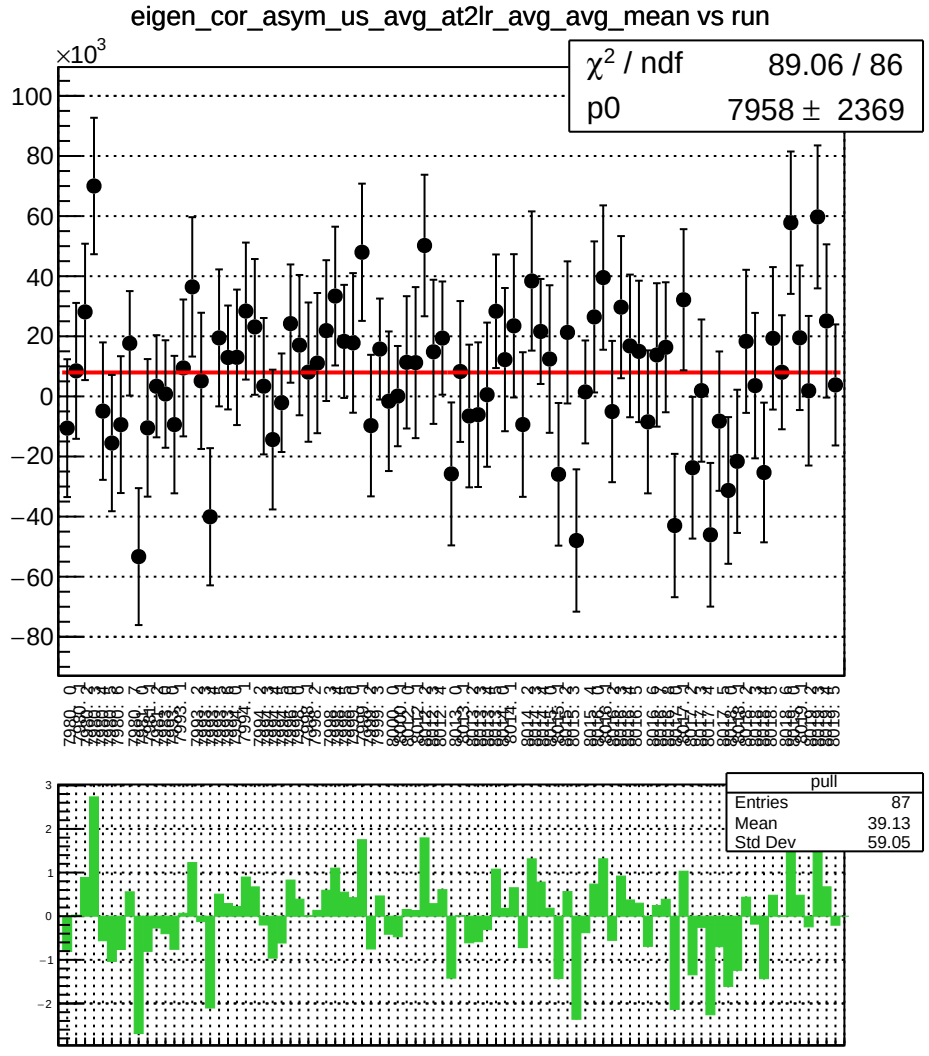

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 89.06 / 86
p0 7958 ± 2369
pull
Entries 87
Mean 39.13
Std Dev 59.05

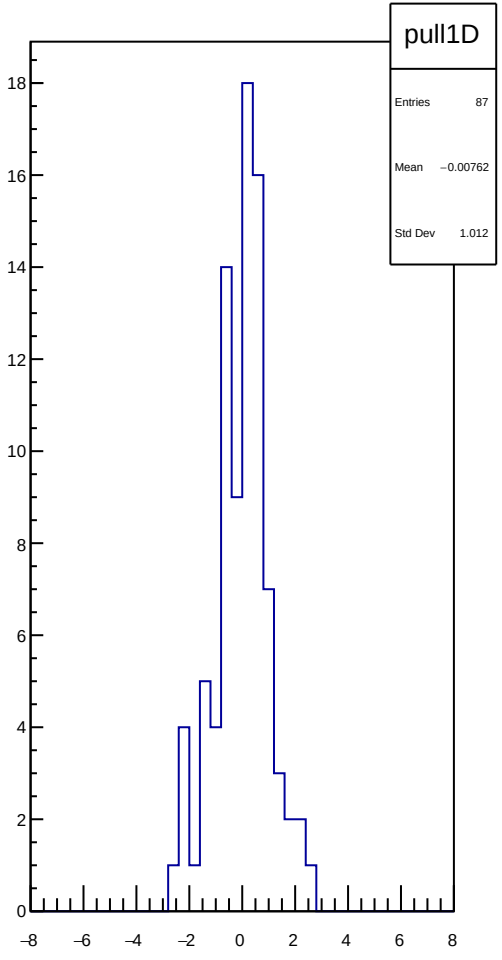

pull1D
Entries 87
Mean −0.00762
Std Dev 1.012

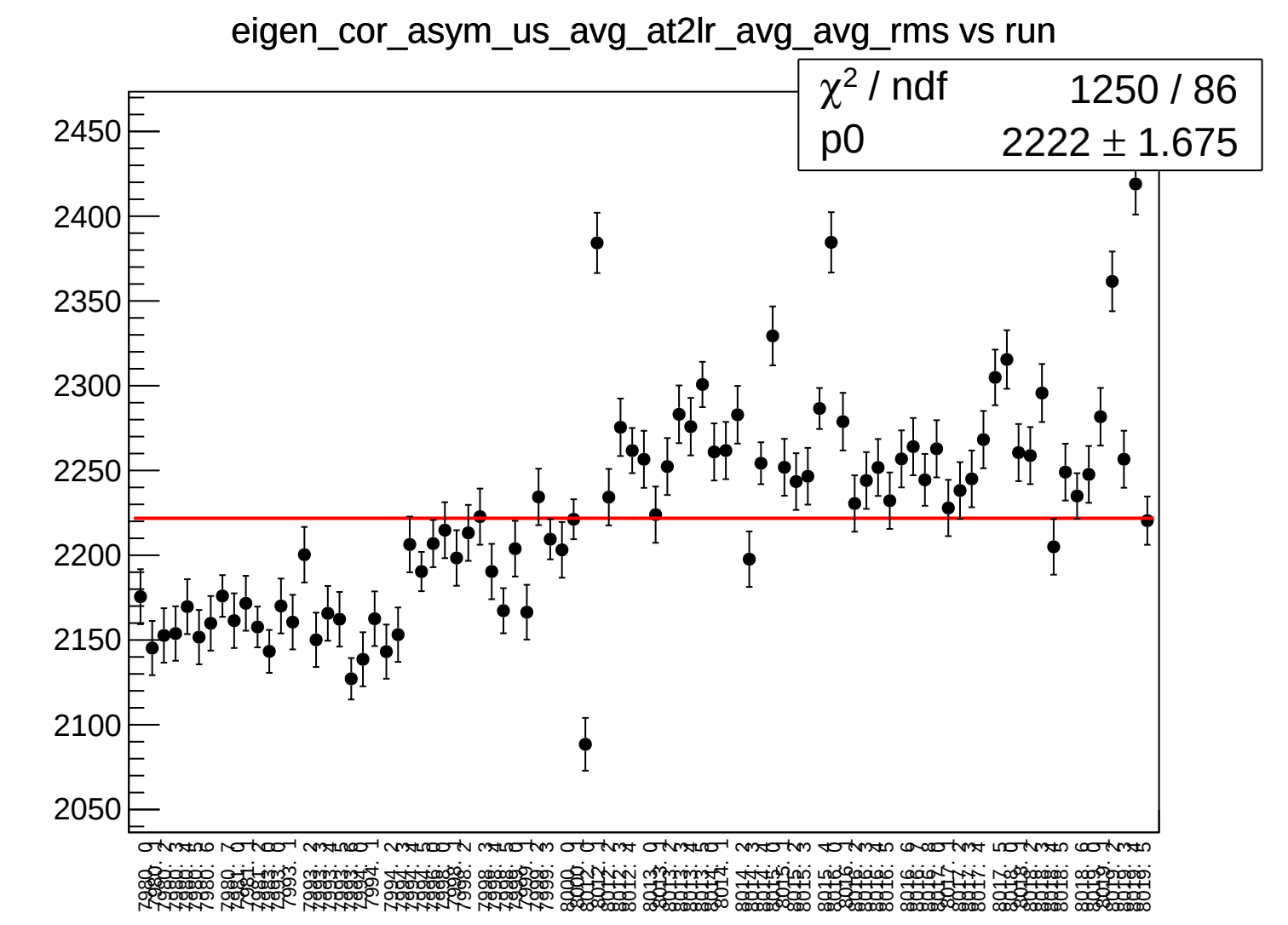

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1250 / 86
p0 2222 ± 1.675
2450
2400
2350
2300
2250
2200
2150
2100
2050

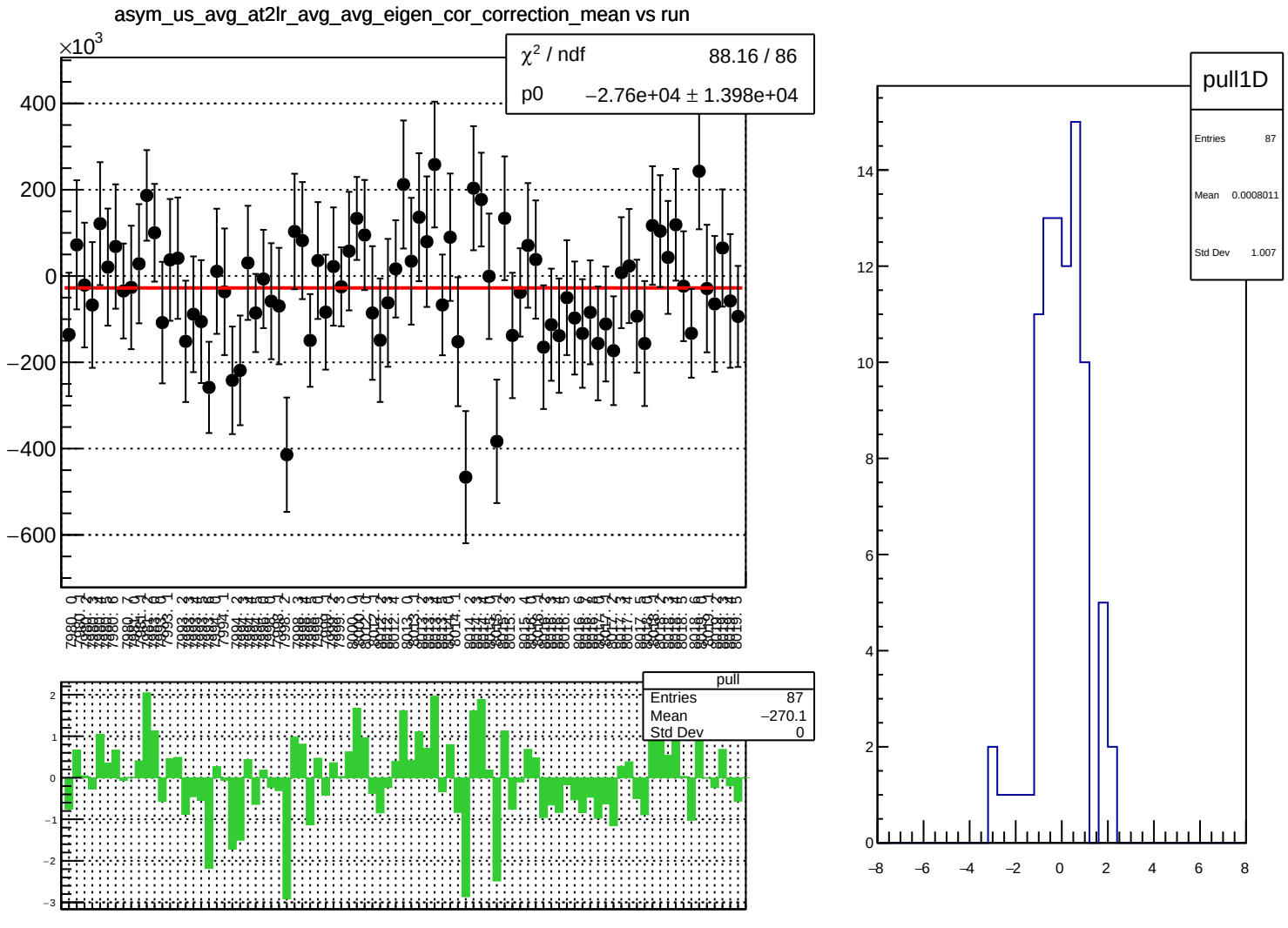

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 88.16 / 86
p0 −2.76e+04 ± 1.398e+04
400
200
0
−200
−400
−600
pull
Entries 87
Mean −270.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.0008011
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

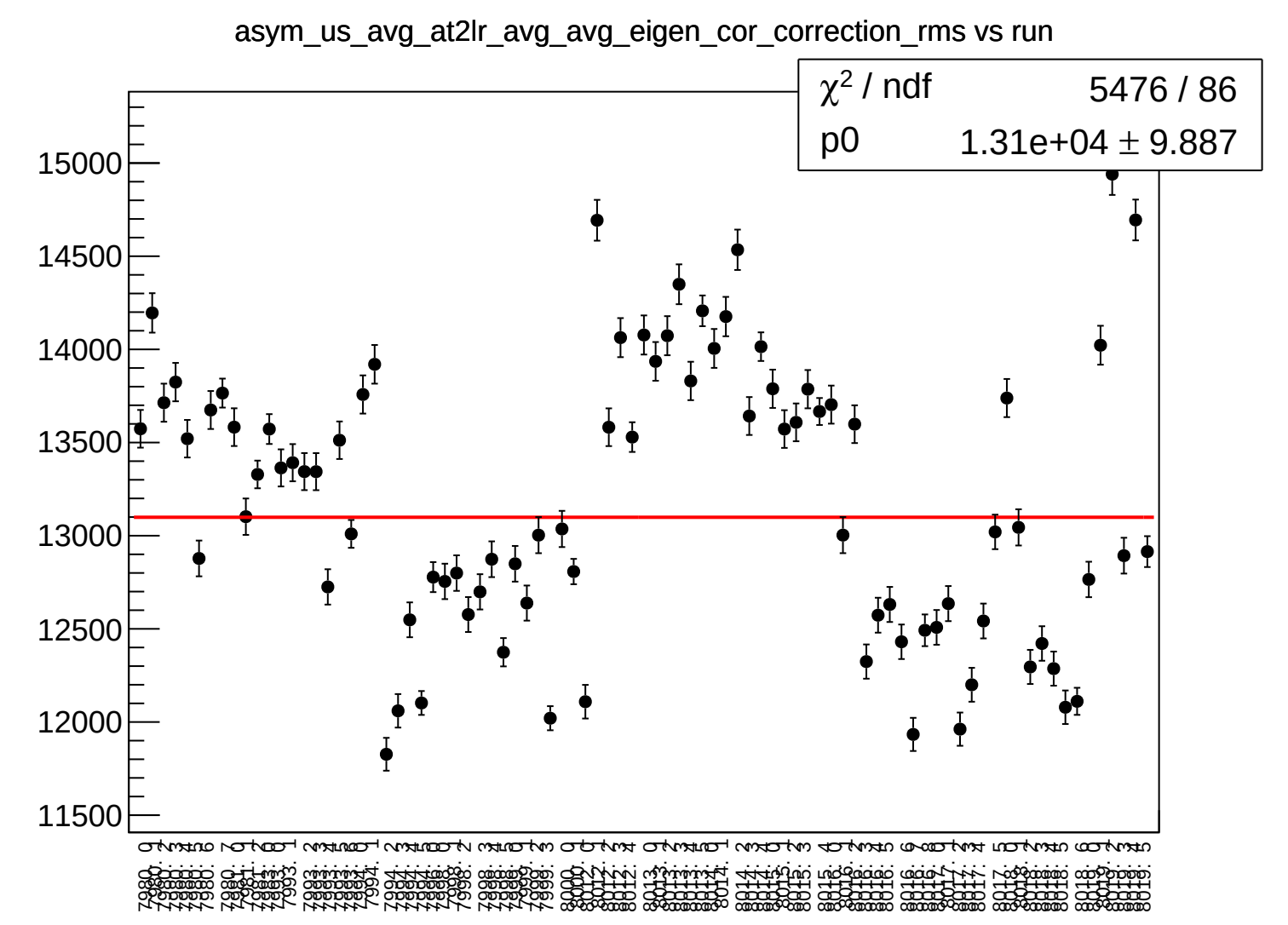

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 5476 / 86
p0 1.31e+04 ± 9.887
15000
14500
14000
13500
13000
12500
12000
11500

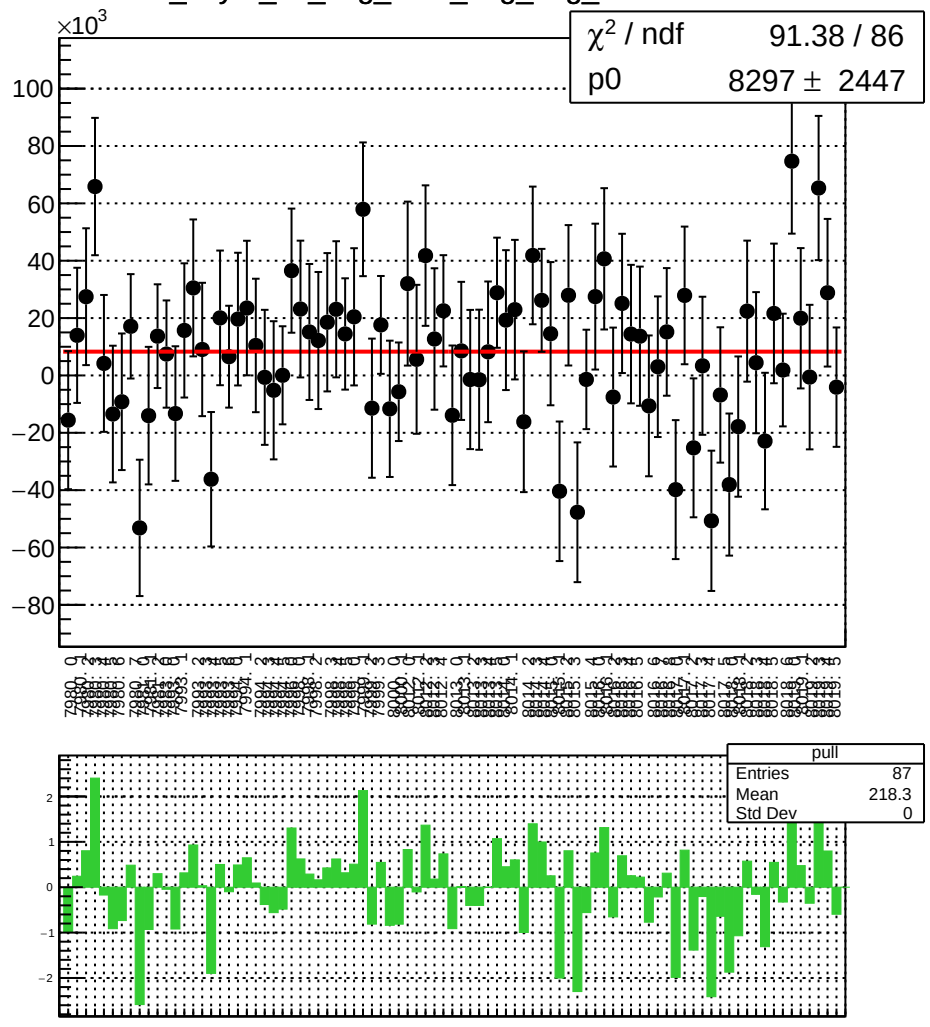

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 89.06 / 86
p0 7958 ± 2369
pull
Entries 87
Mean 39.13
Std Dev 59.05

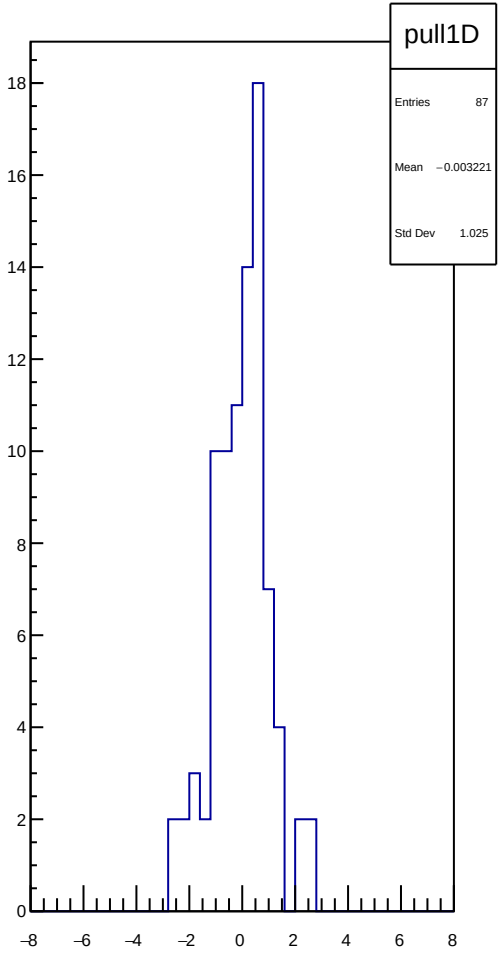

pull1D
Entries 87
Mean −0.00762
Std Dev 1.012

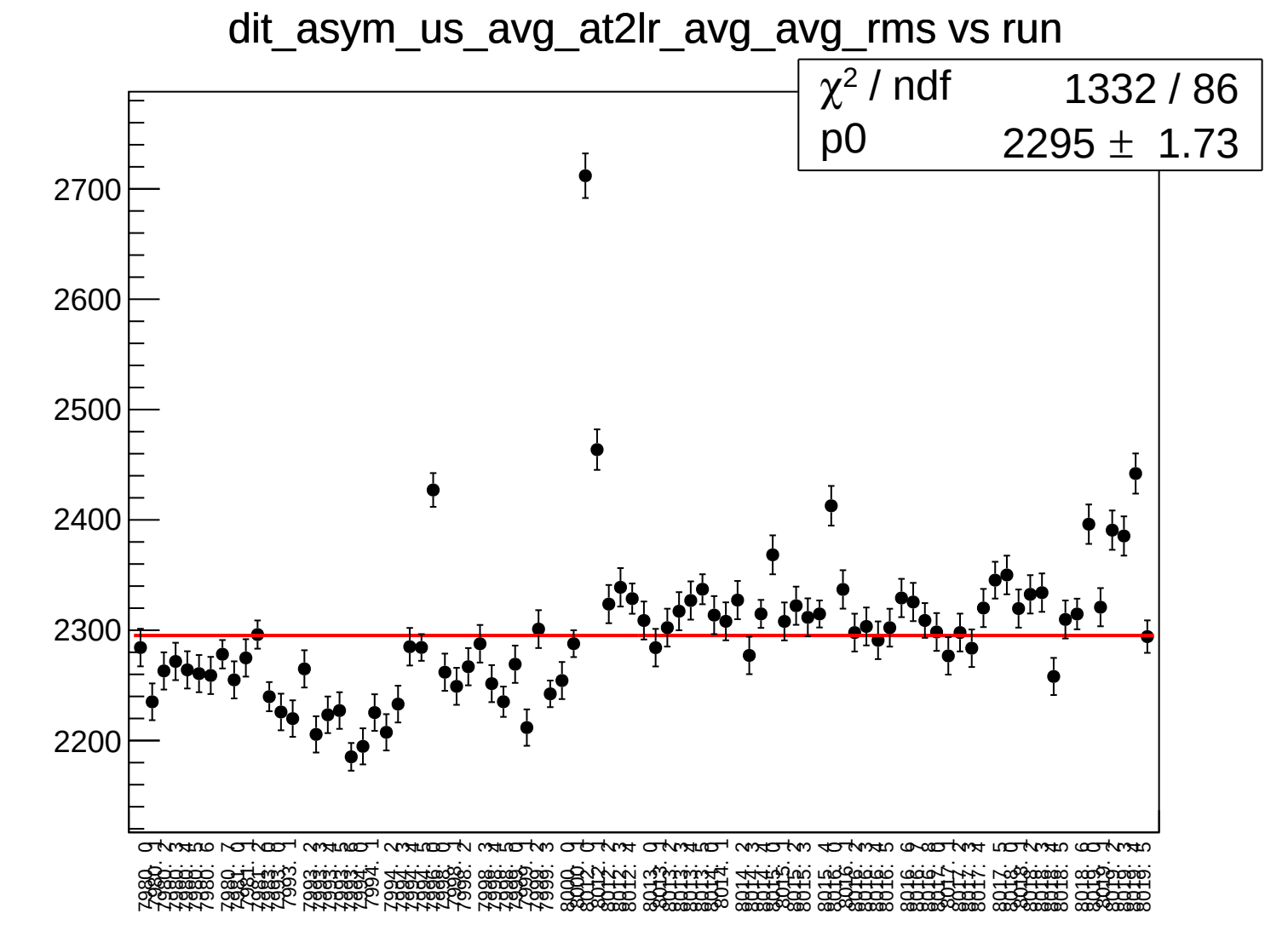

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1250 / 86
p0 2222 ± 1.675
2450
2400
2350
2300
2250
2200
2150
2100
2050

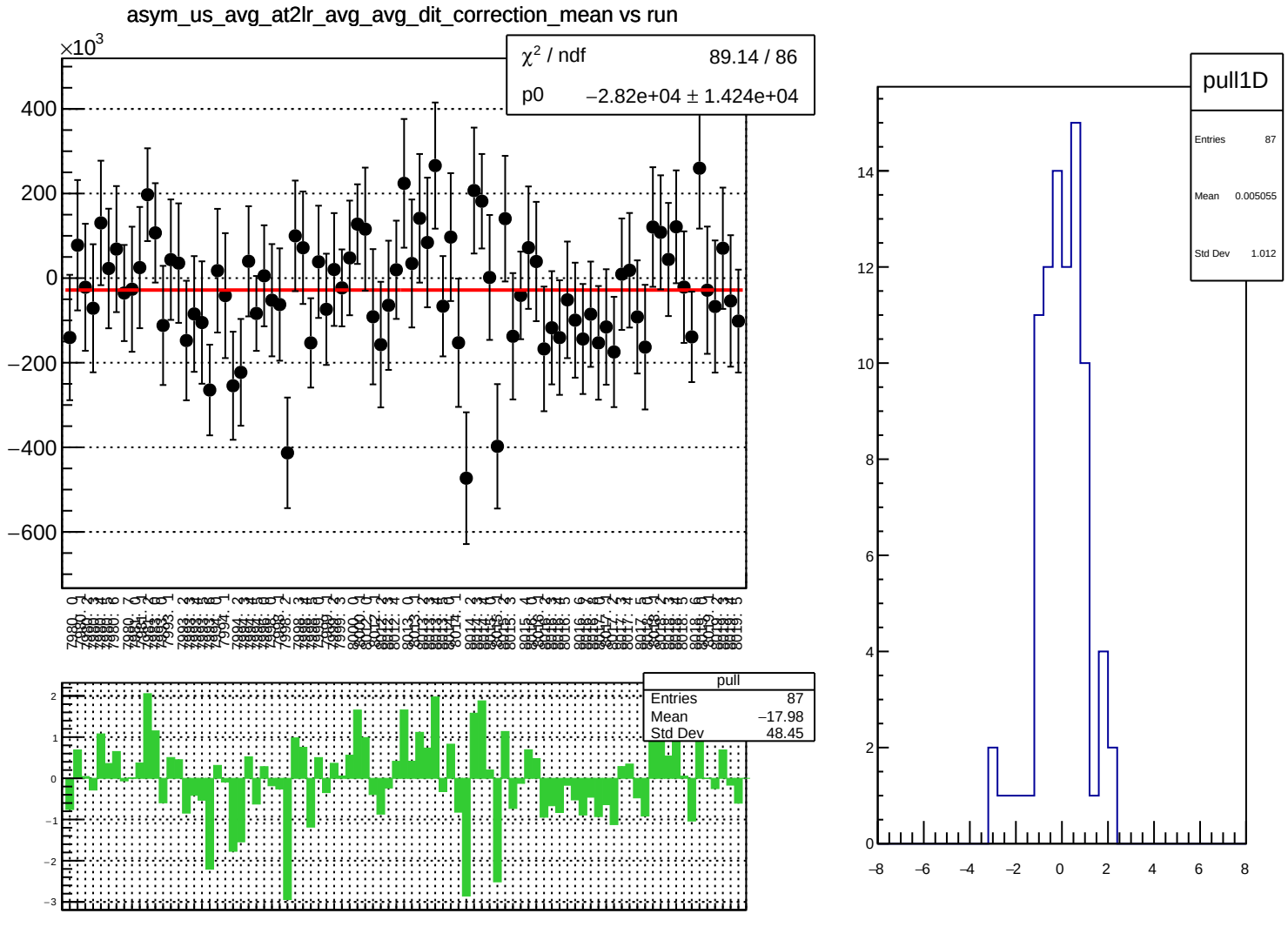

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.16 / 86
p0 −2.76e+04 ± 1.398e+04
400
200
0
−200
−400
−600
pull
Entries 87
Mean −270.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.0008011
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

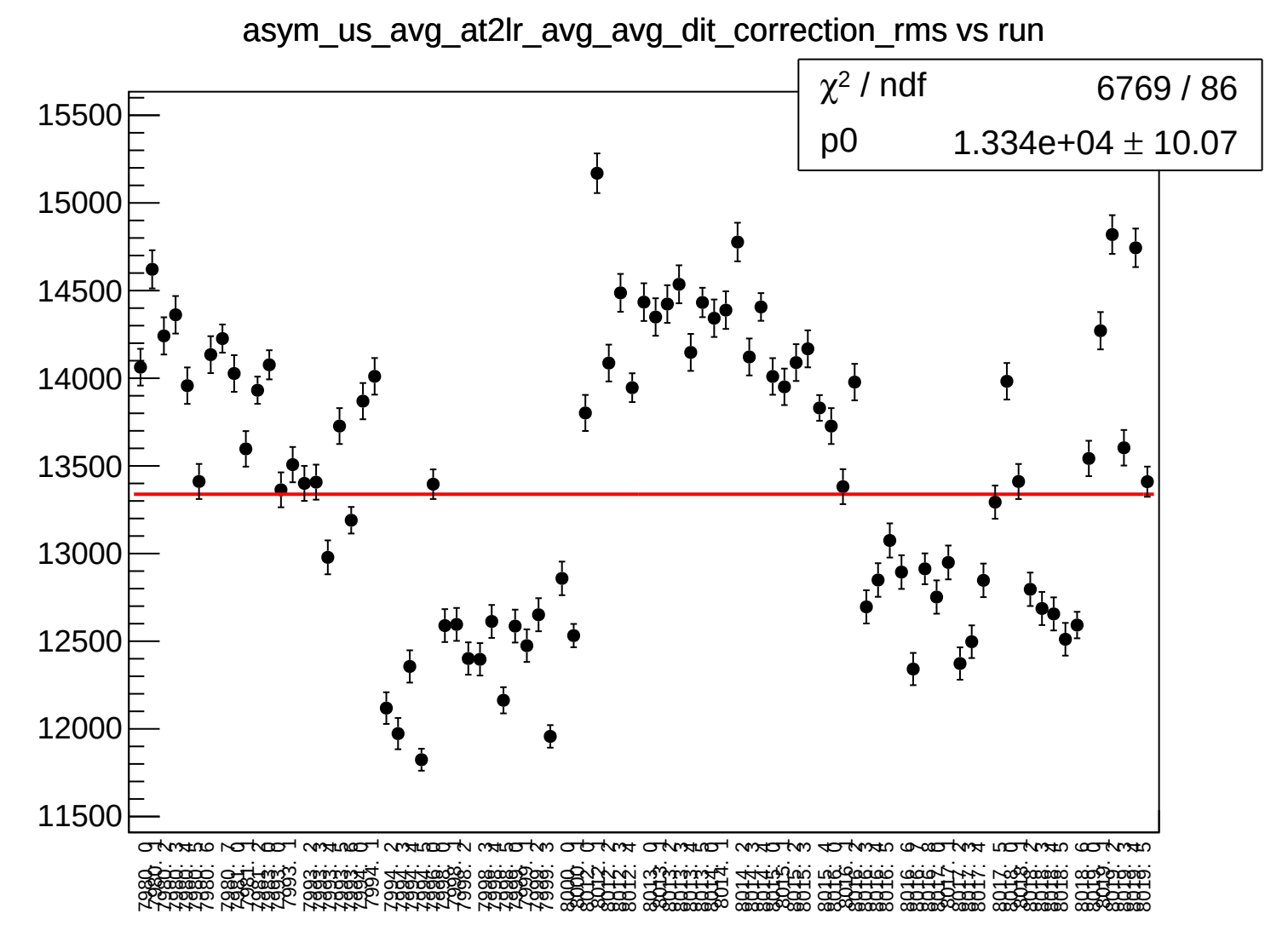

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5476 / 86
p0 1.31e+04 ± 9.887
15000
14500
14000
13500
13000
12500
12000
11500

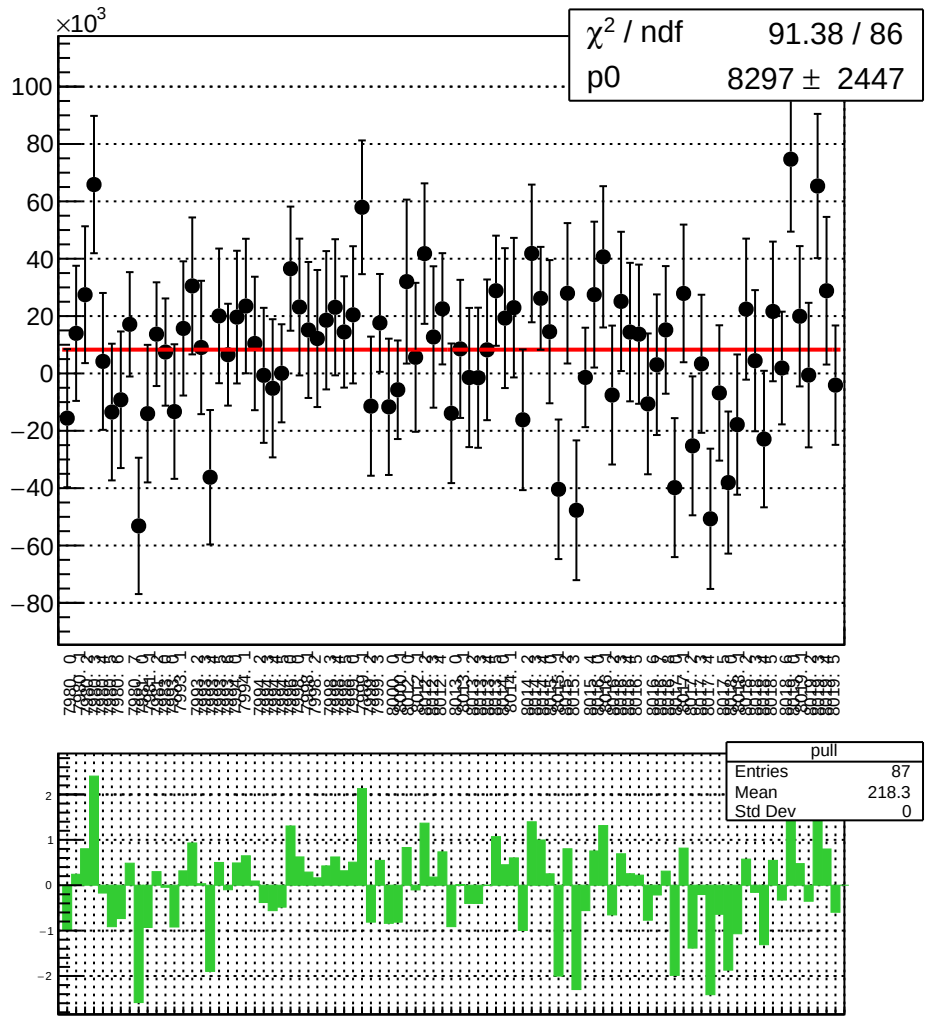

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 91.38 / 86
p0 8297 ± 2447
pull
Entries 87
Mean 218.3
Std Dev 0

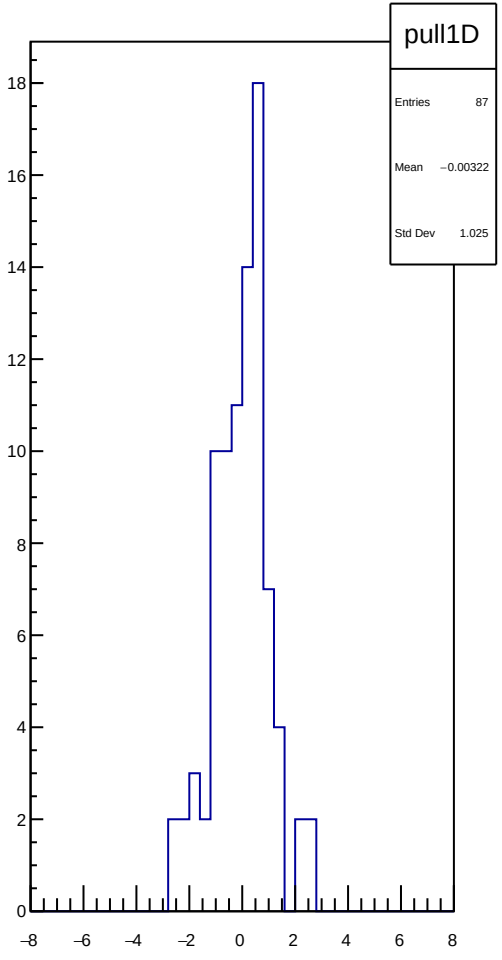

pull1D
Entries 87
Mean −0.003221
Std Dev 1.025

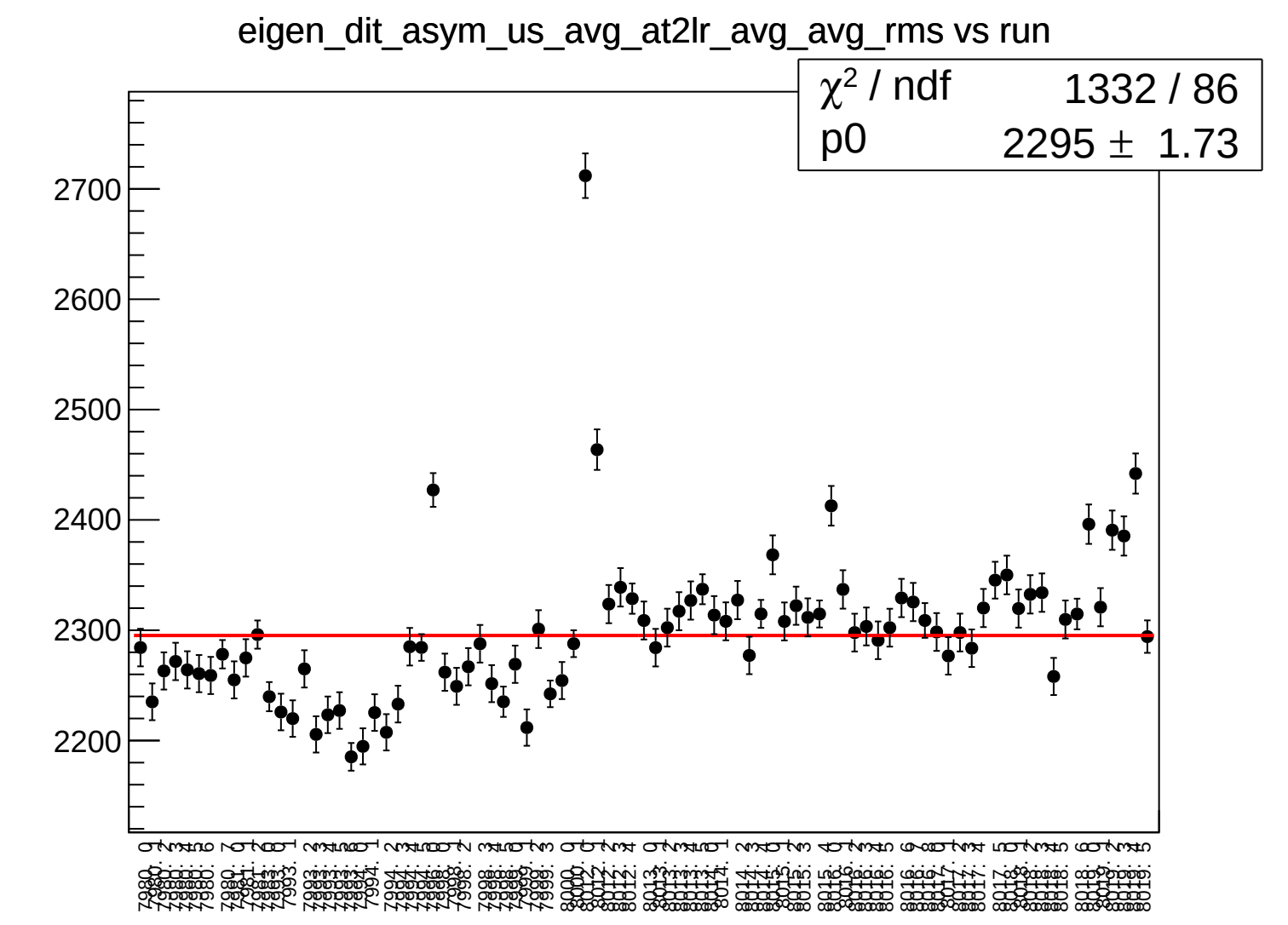

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1332 / 86
p0 2295 ± 1.73
2700
2600
2500
2400
2300
2200

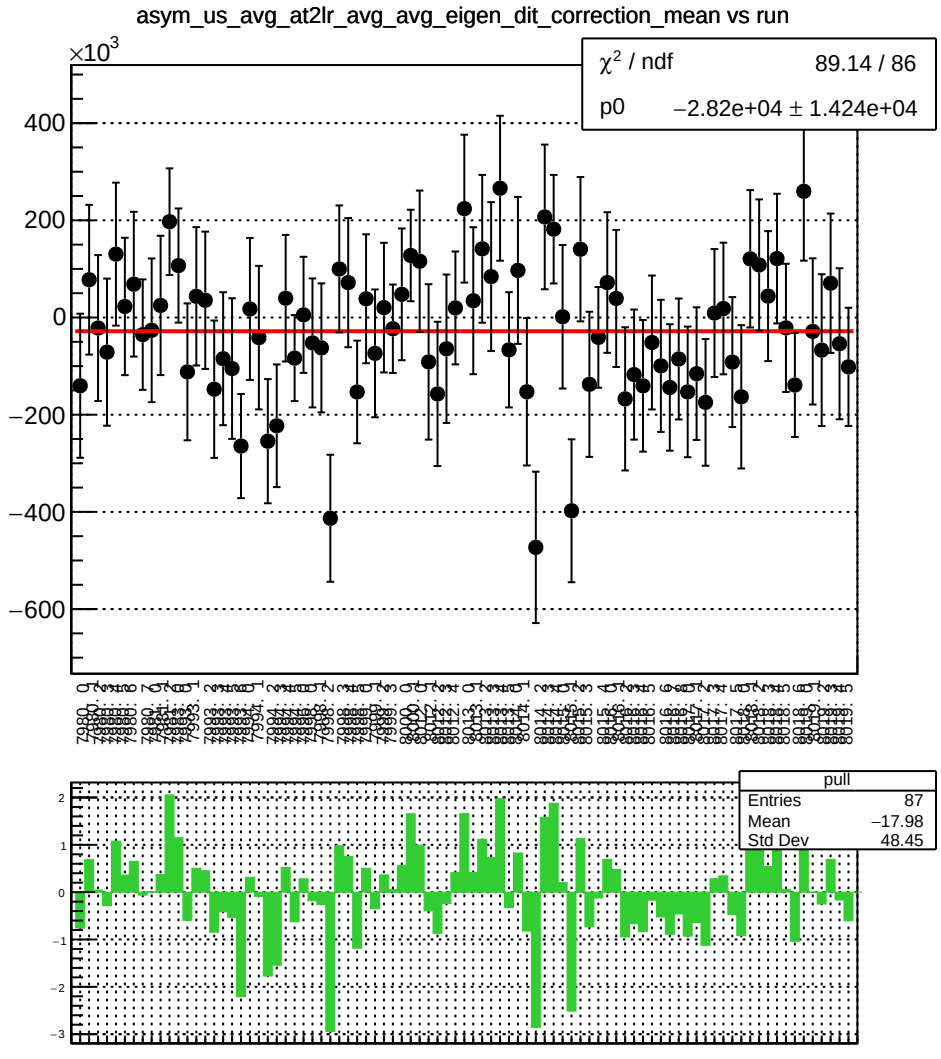

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.14 / 86
p0 −2.82e+04 ± 1.424e+04
400
200
0
−200
−400
−600
pull
Entries 87
Mean −17.98
Std Dev 48.45
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.005055
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

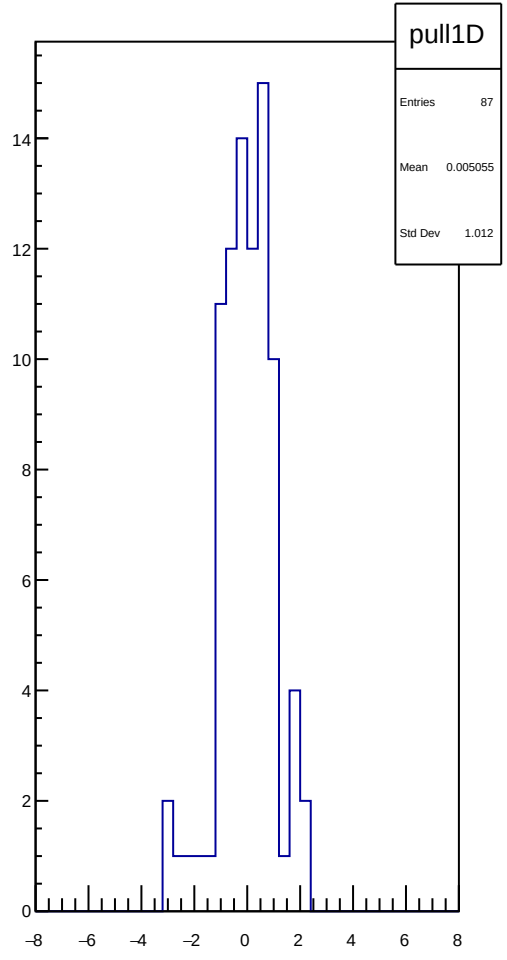

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 6769 / 86
p0 1.334e+04 ± 10.07
15500
15000
14500
14000
13500
13000
12500
12000
11500

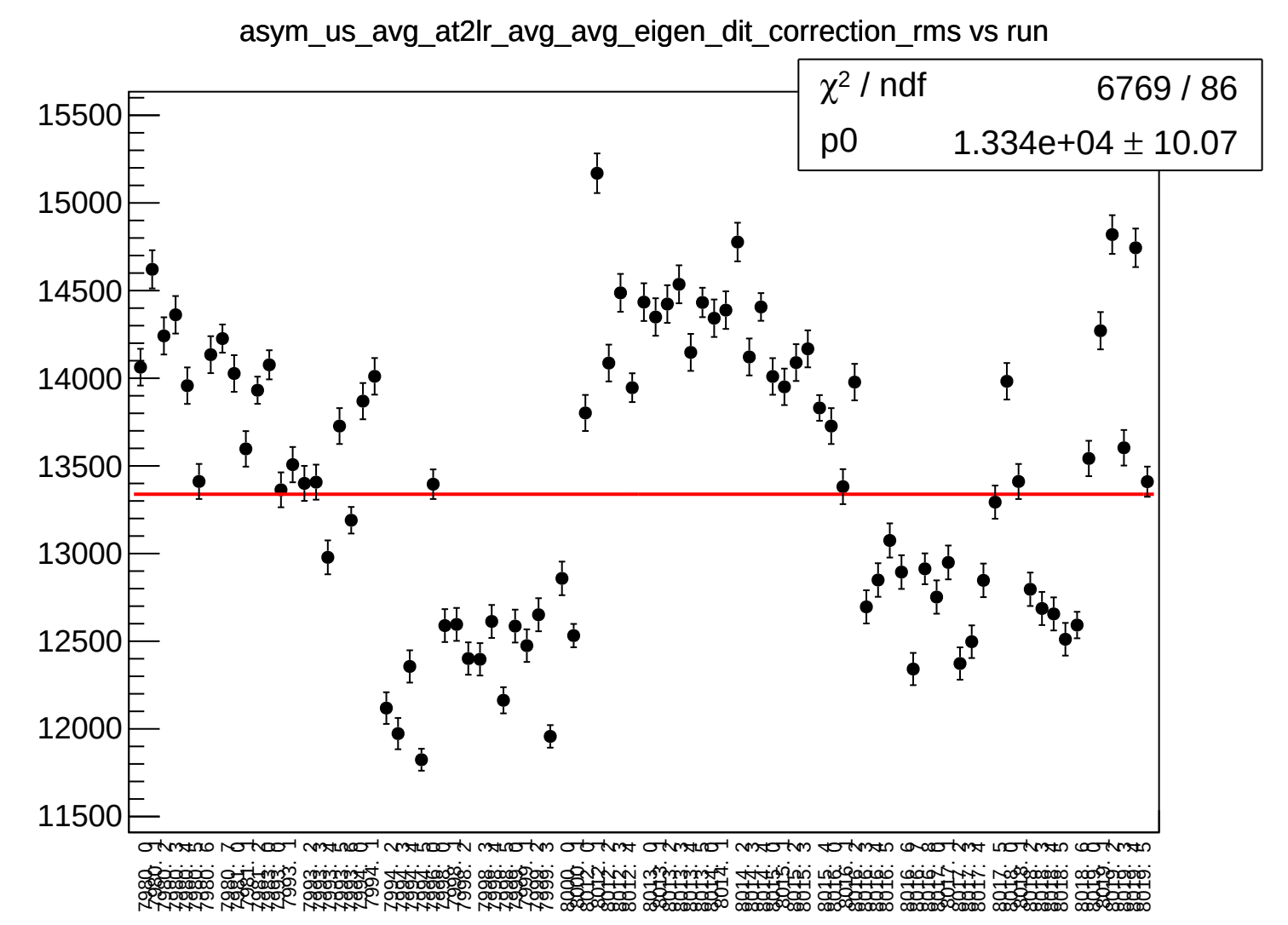

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 91.38 / 86
p0 8297 ± 2447
pull
Entries 87
Mean 218.3
Std Dev 0

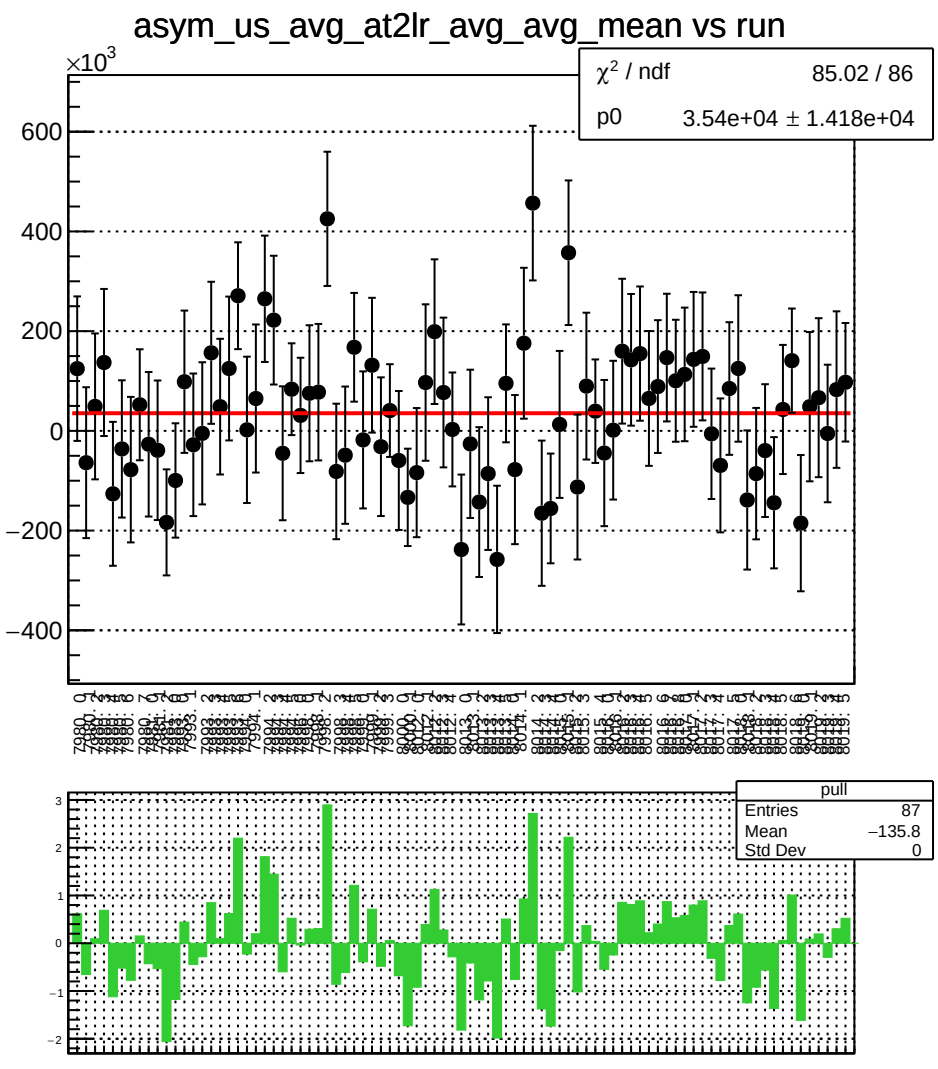

pull1D
Entries 87
Mean −0.00322
Std Dev 1.025

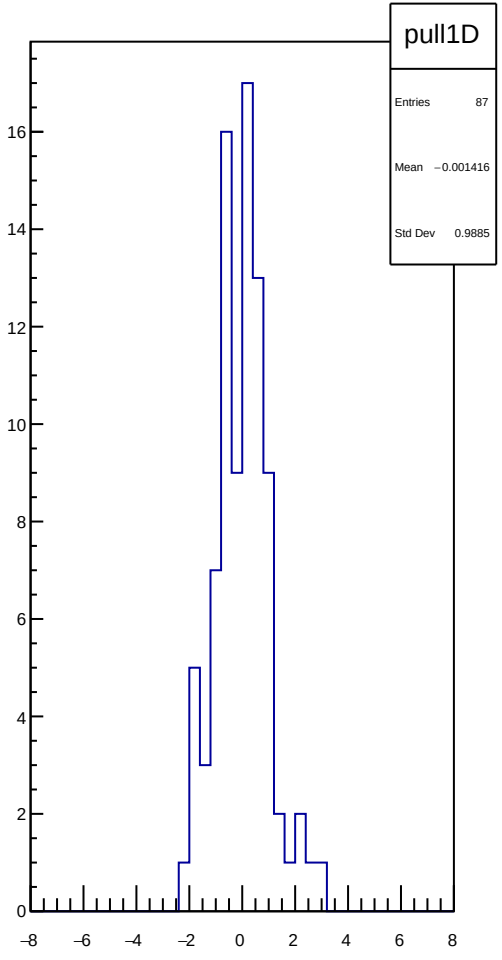

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1332 / 86
p0 2295 ± 1.73
2700
2600
2500
2400
2300
2200

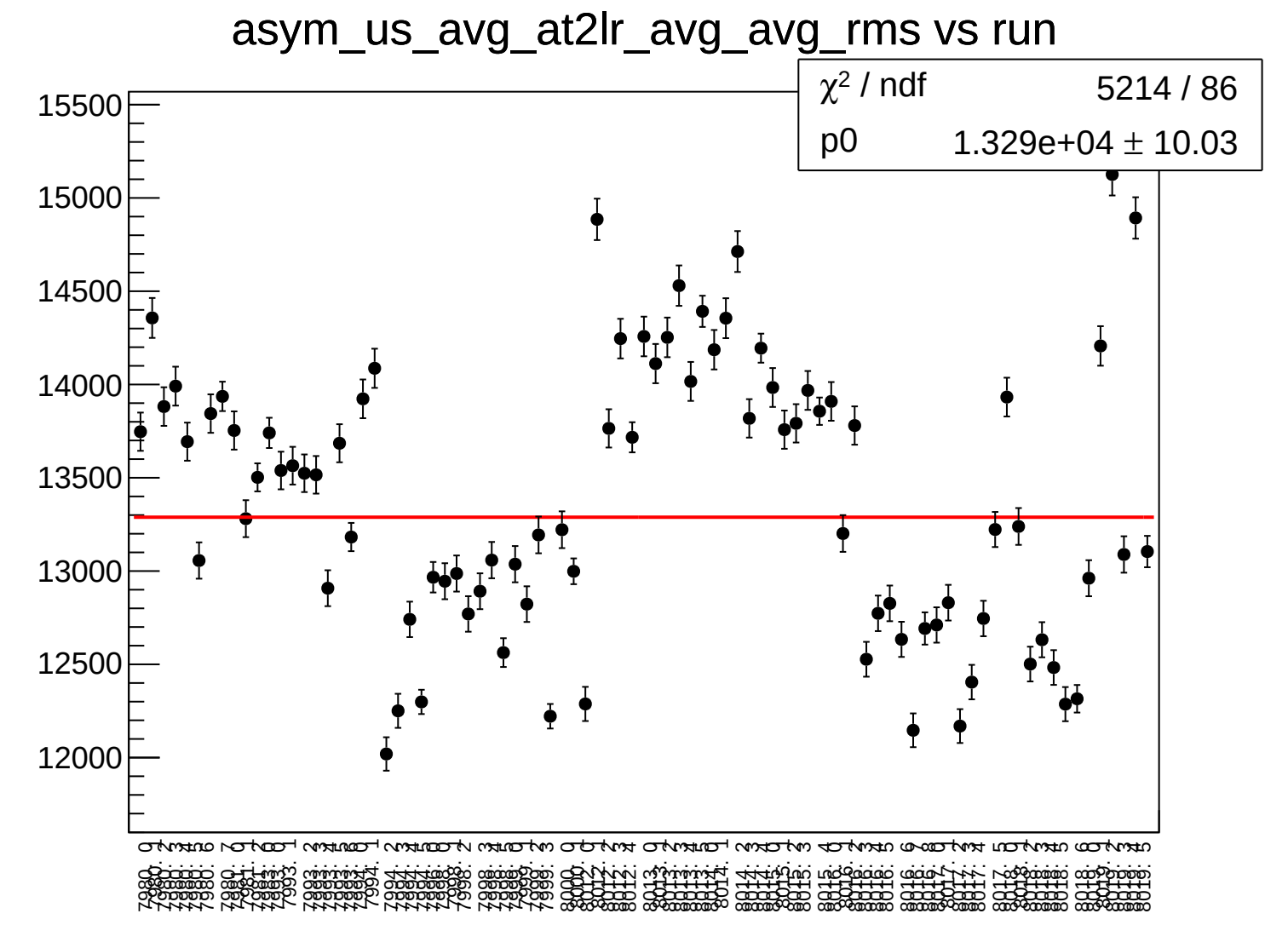

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.14 / 86
p0 −2.82e+04 ± 1.424e+04
400
200
0
−200
−400
−600
pull
Entries 87
Mean −17.98
Std Dev 48.45
2
1
0
−1
−2
−3

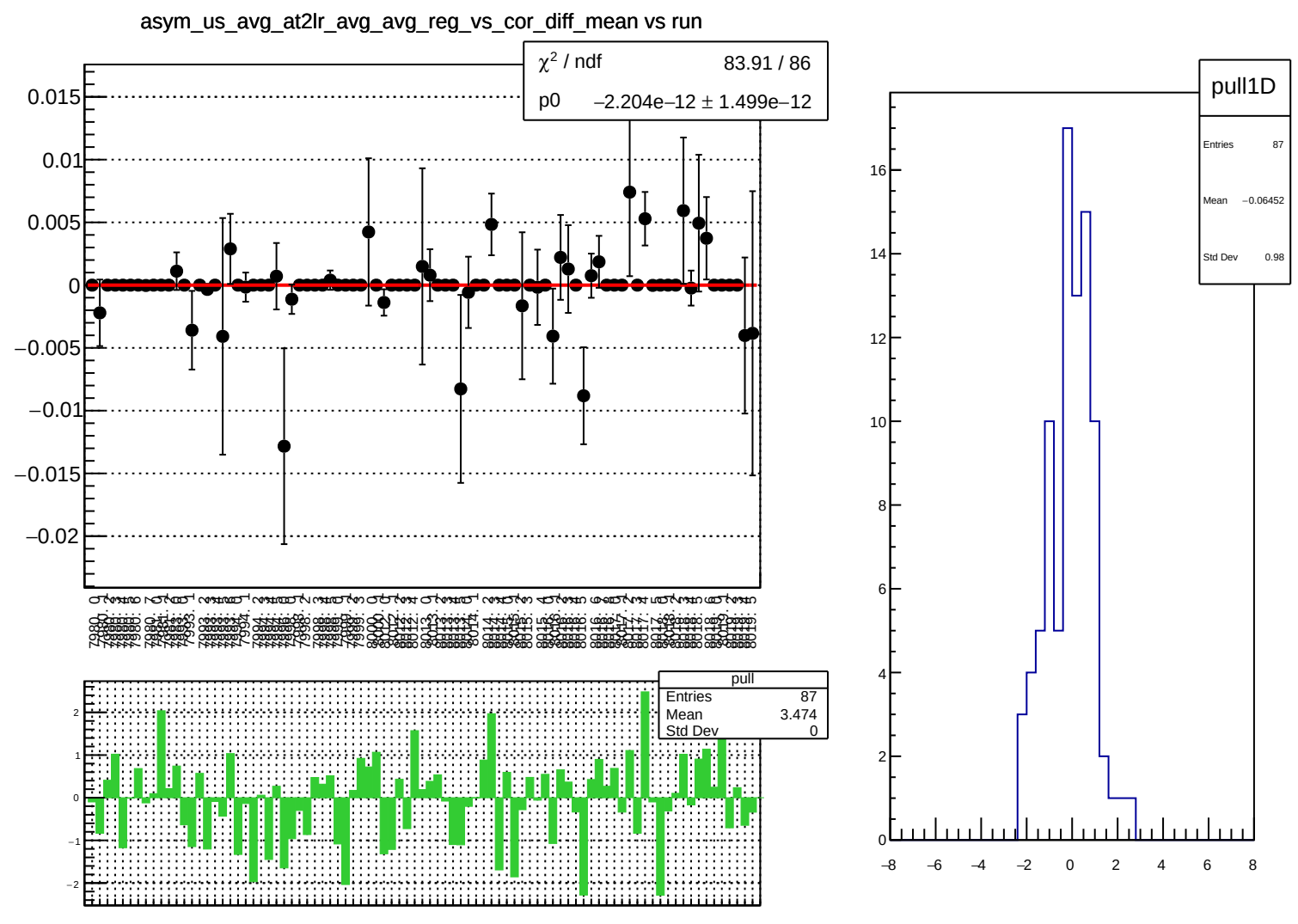

pull1D
Entries 87
Mean 0.005055
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

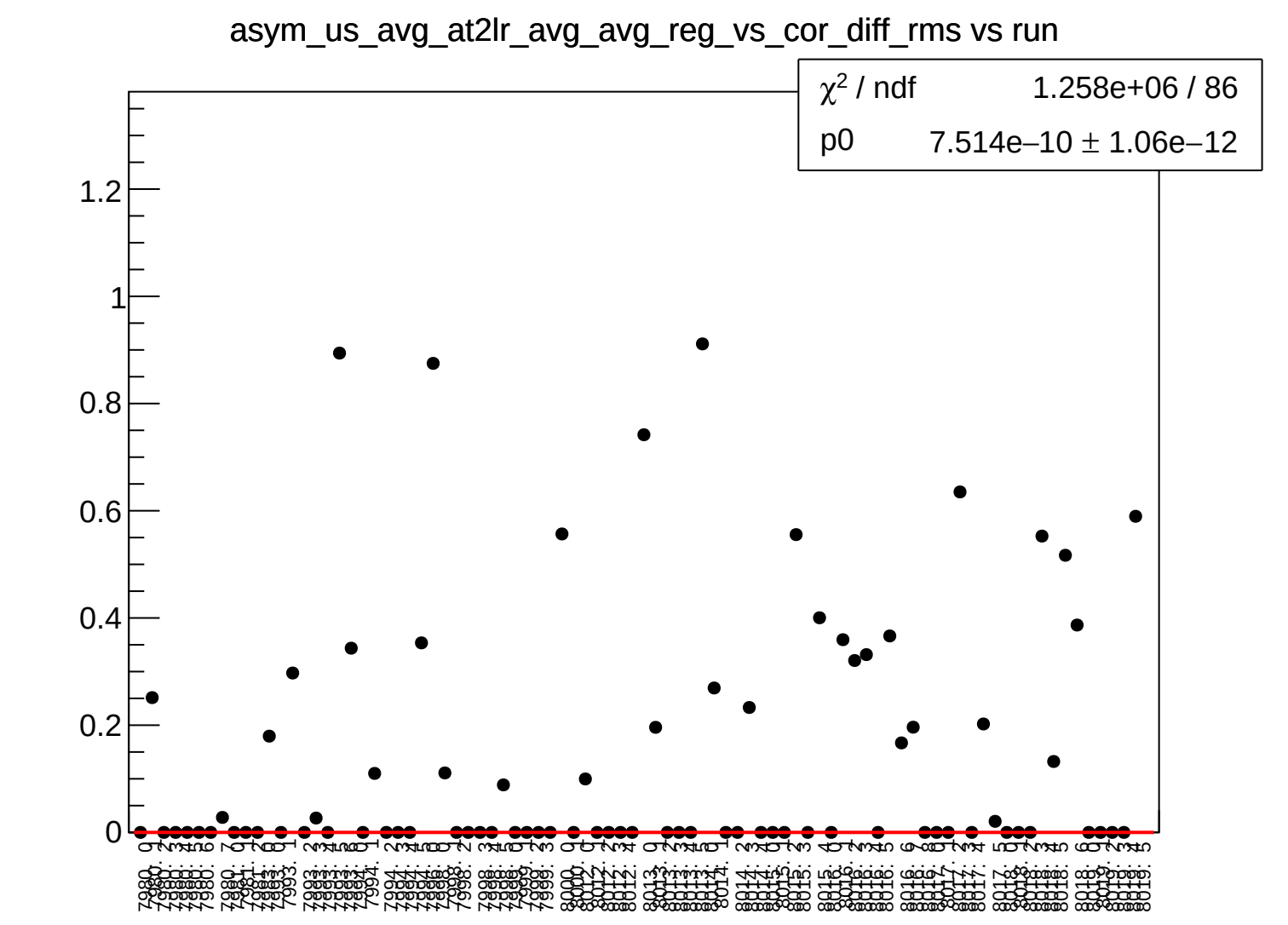

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6769 / 86
p0 1.334e+04 ± 10.07
15500
15000
14500
14000
13500
13000
12500
12000
11500

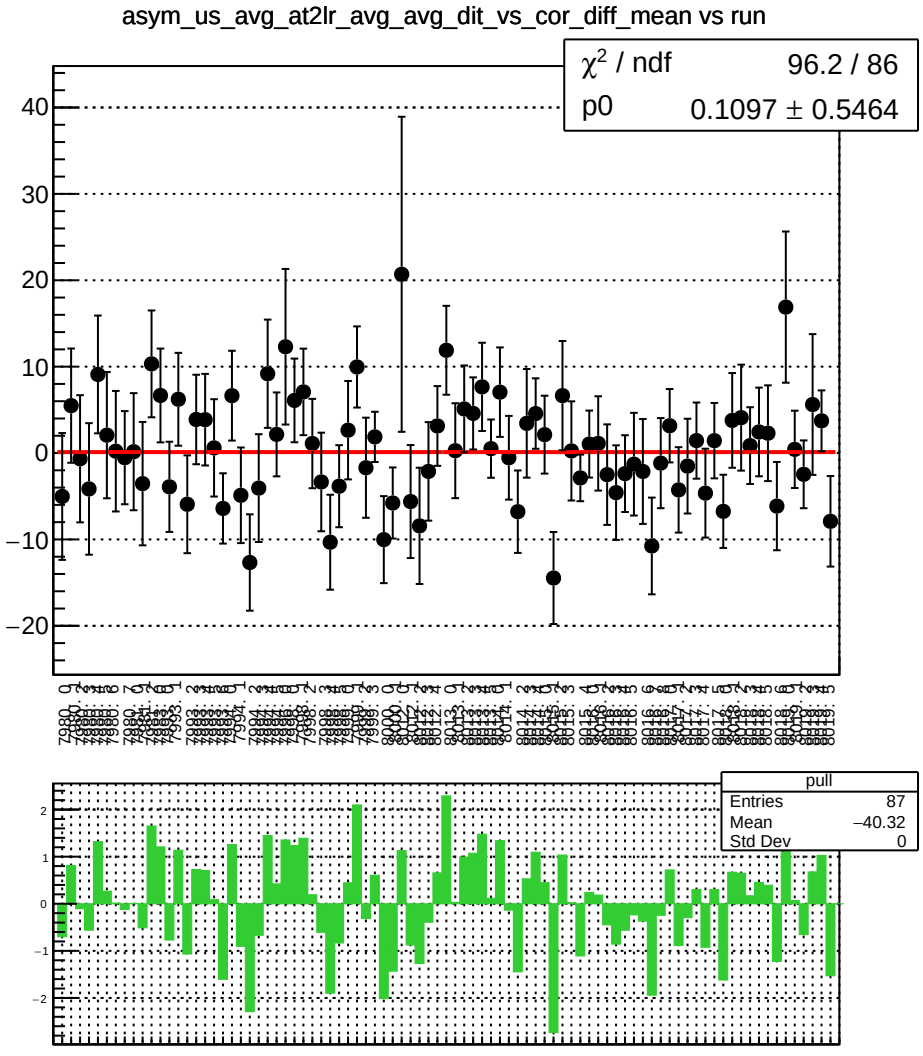

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 85.02 / 86
p0 3.54e+04 ± 1.418e+04
600
400
200
0
−200
−400
pull
Entries 87
Mean −135.8
Std Dev 0
3
2
1
0
−1
−2

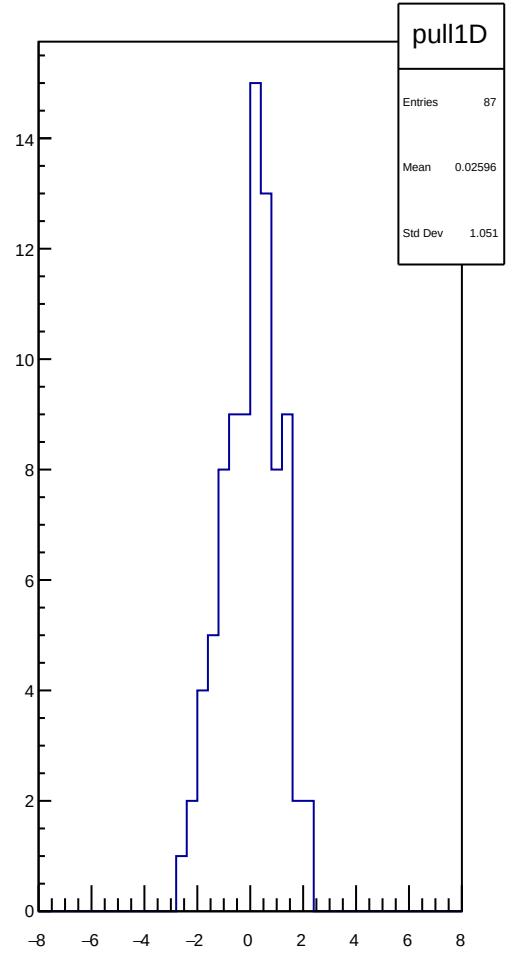

pull1D
Entries 87
Mean −0.001416
Std Dev 0.9885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

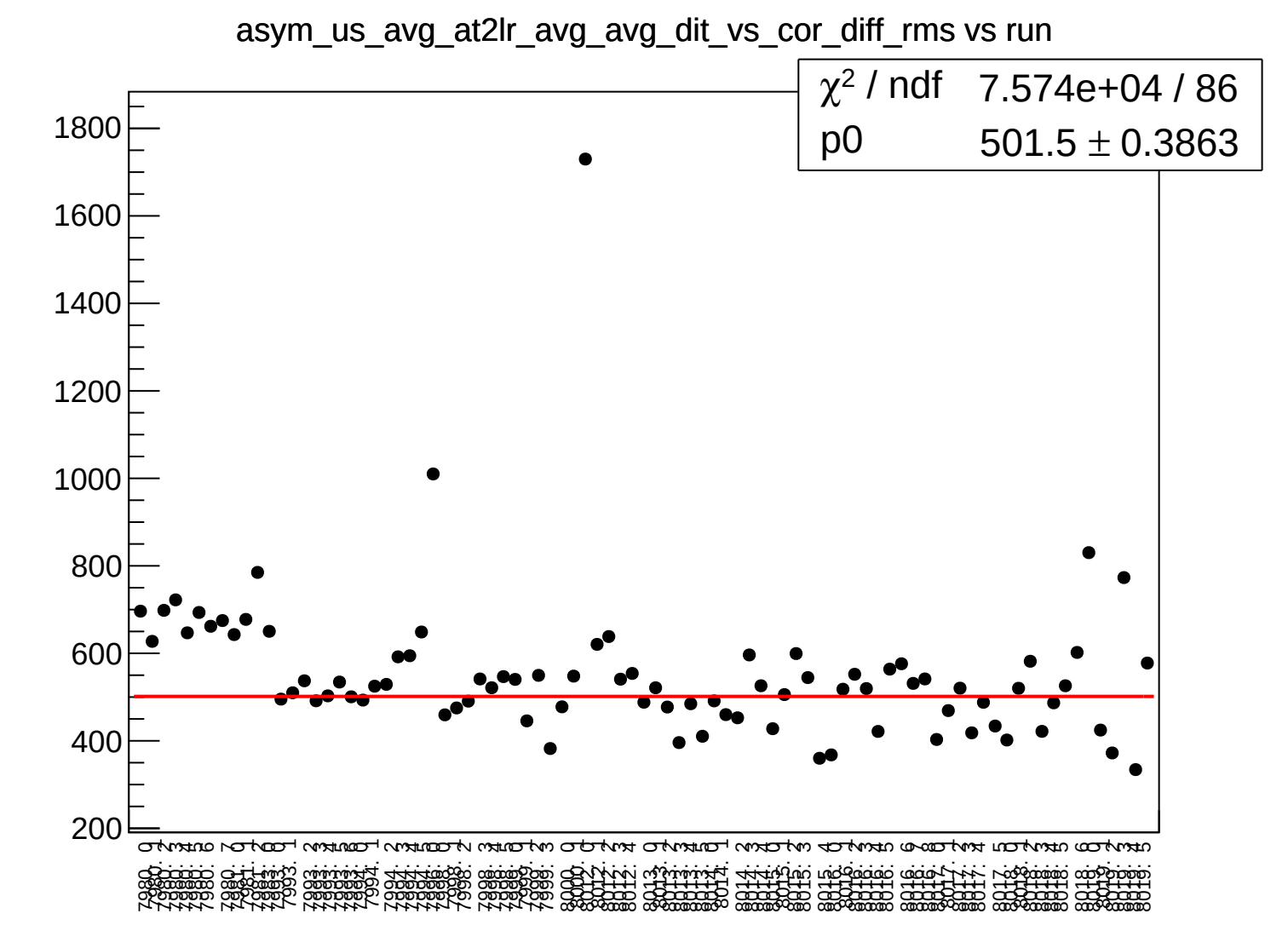

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 5214 / 86
p0 1.329e+04 ± 10.03
15500
15000
14500
14000
13500
13000
12500
12000

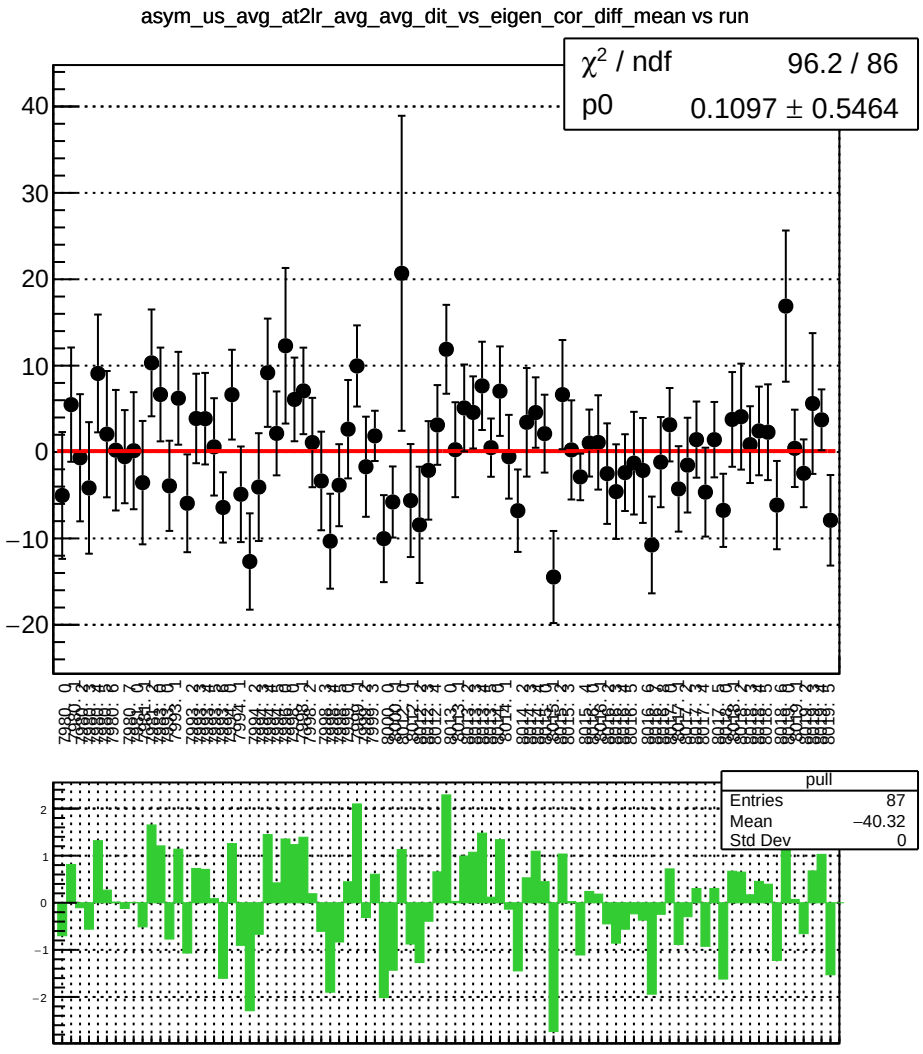

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.91 / 86
p0 −2.204e−12 ± 1.499e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 87
Mean 3.474
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.06452
Std Dev 0.98
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

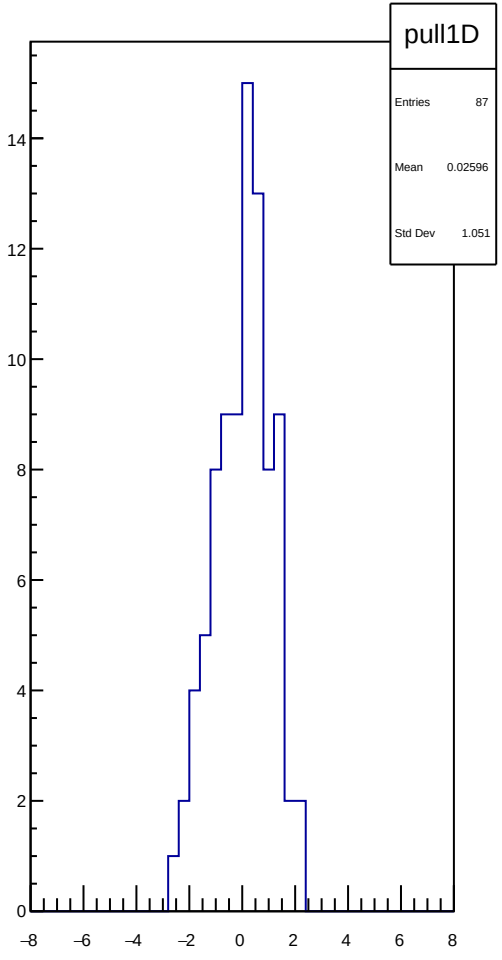

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.258e+06 / 86
p0 7.514e−10 ± 1.06e−12
1.2
1
0.8
0.6
0.4
0.2
0

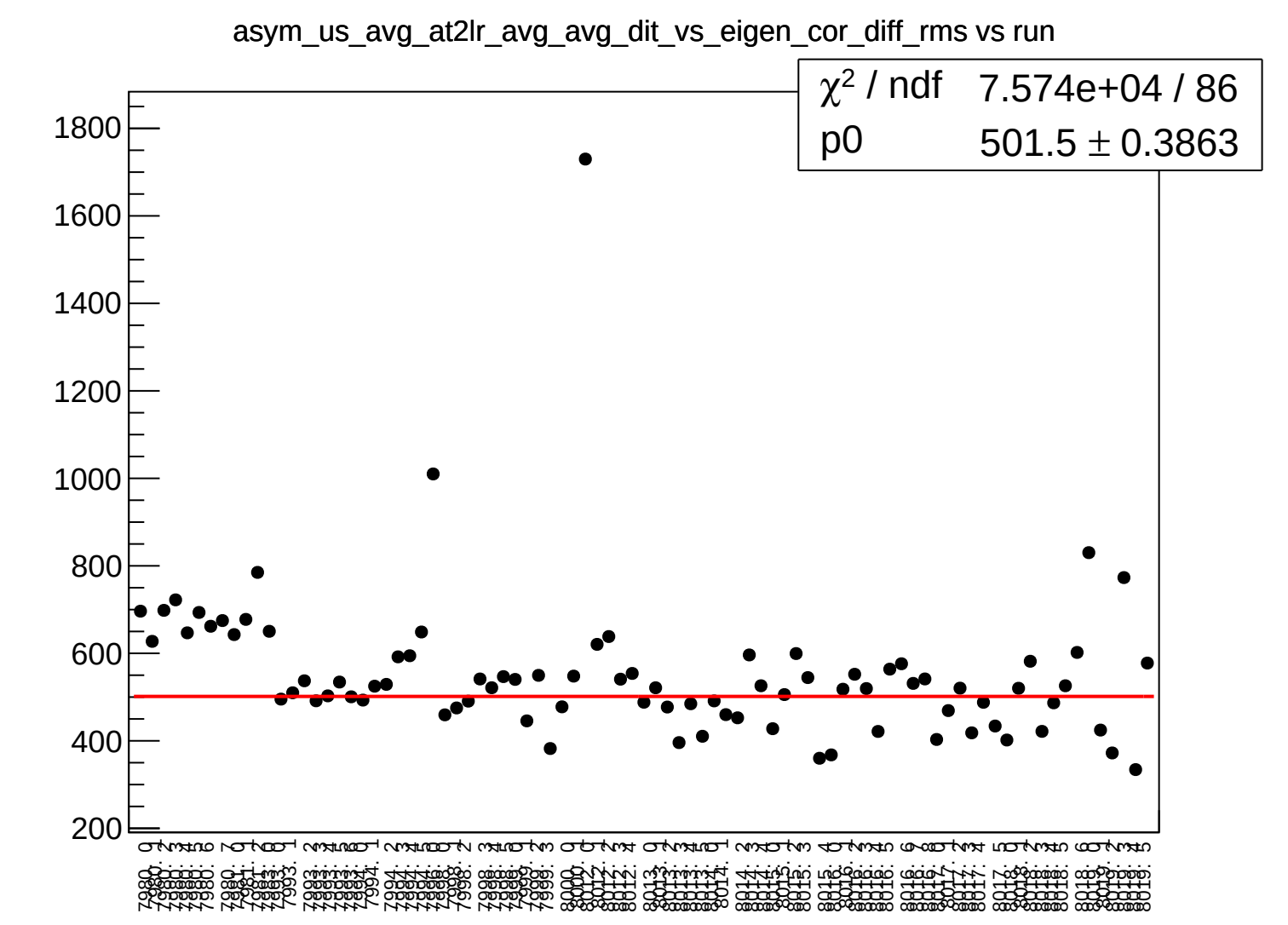

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.2 / 86
p0 0.1097 ± 0.5464
pull
Entries 87
Mean −40.32
Std Dev 0

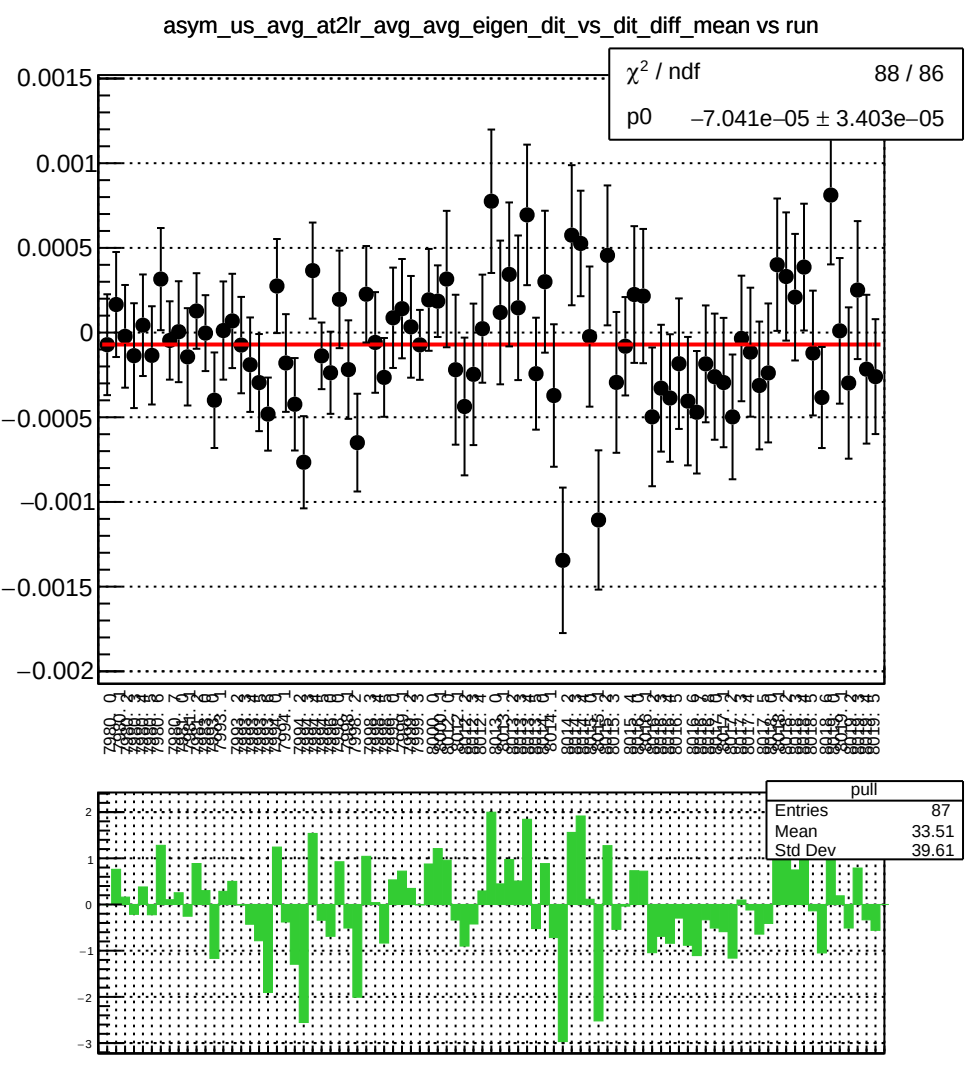

pull1D
Entries 87
Mean 0.02596
Std Dev 1.051

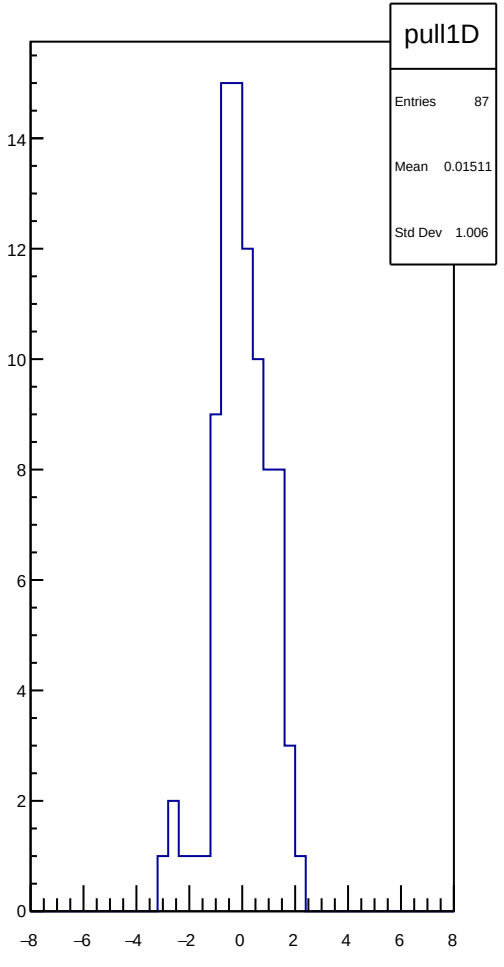

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.574e+04 / 86
p0 501.5 ± 0.3863
1800
1600
1400
1200
1000
800
600
400
200

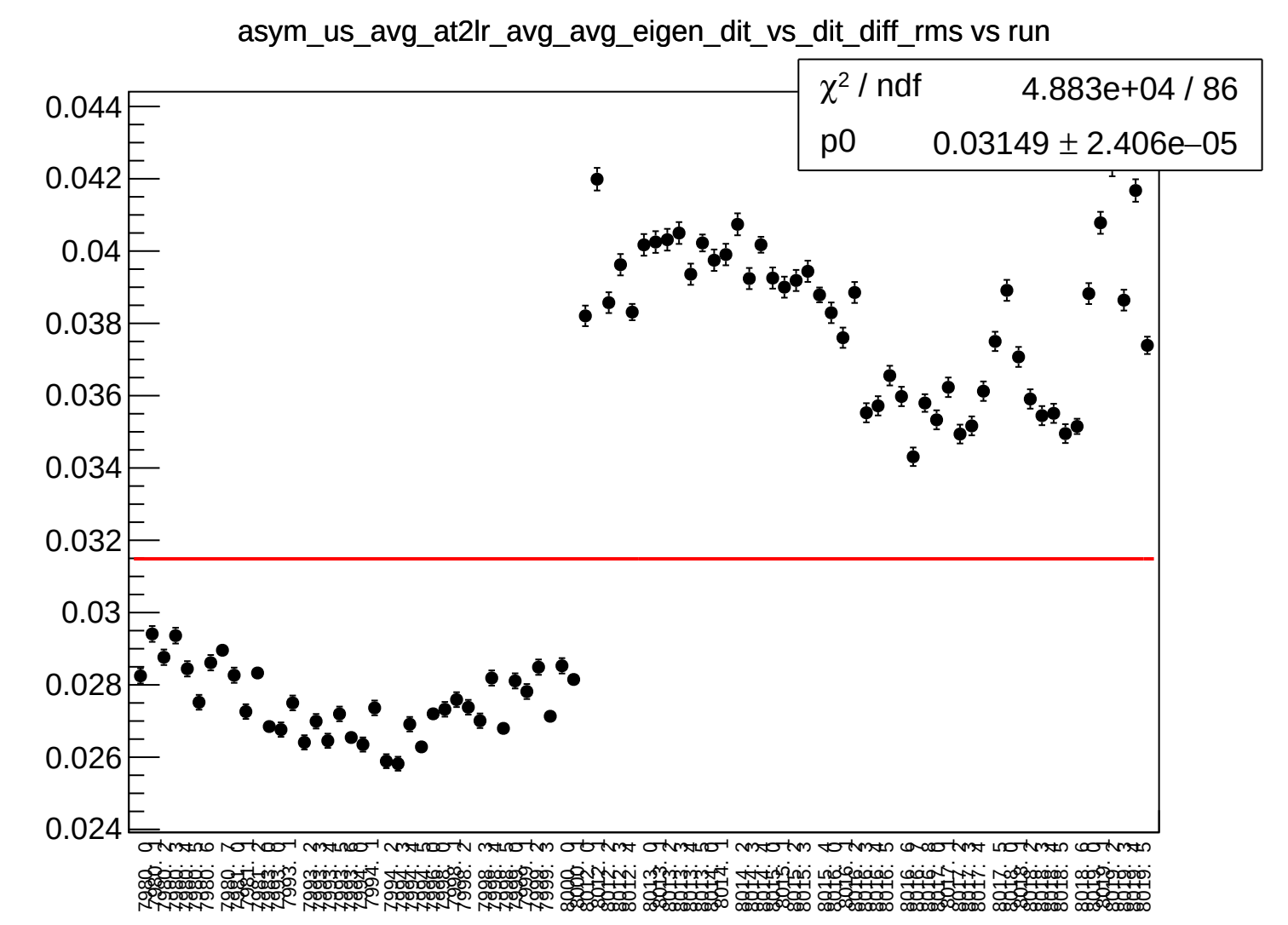

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.2 / 86
p0 0.1097 ± 0.5464
pull
Entries 87
Mean −40.32
Std Dev 0

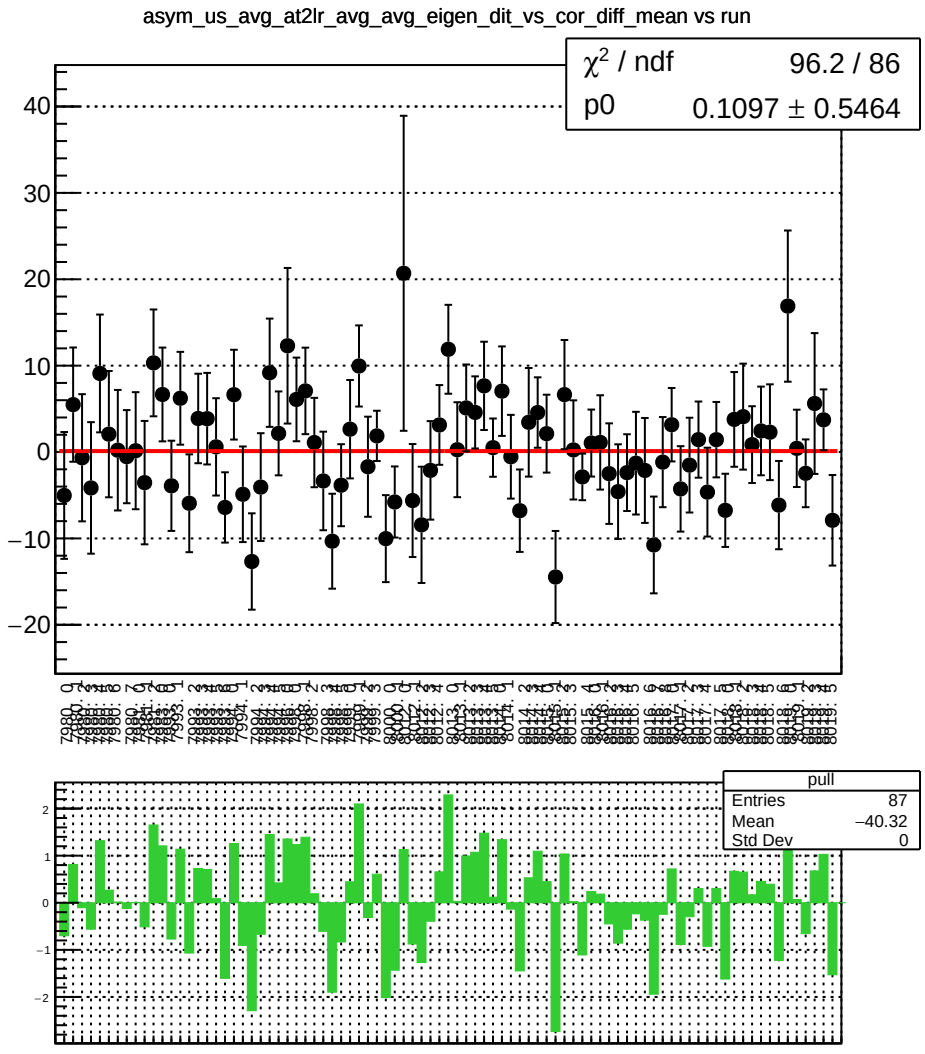

pull1D
Entries 87
Mean 0.02596
Std Dev 1.051

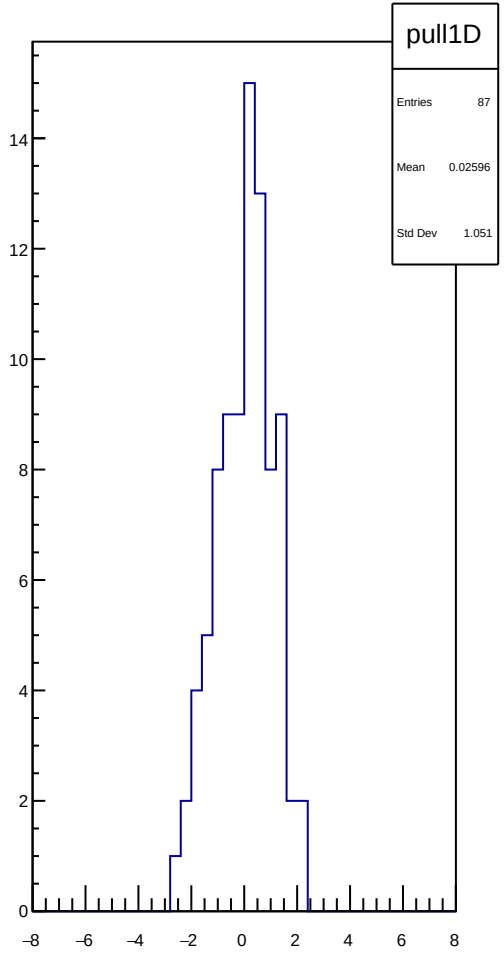

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.574e+04 / 86
p0 501.5 ± 0.3863
1800
1600
1400
1200
1000
800
600
400
200

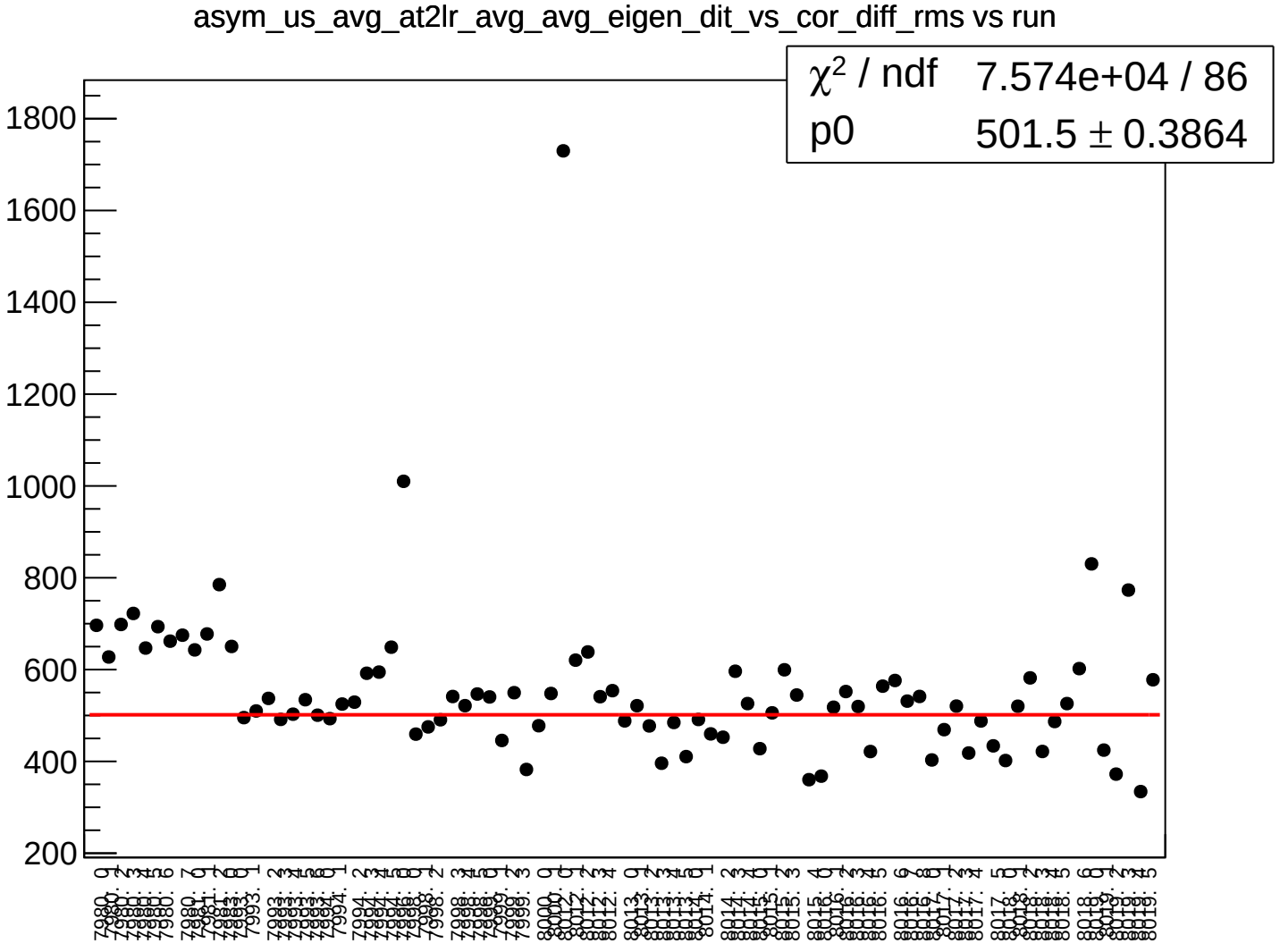

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 88 / 86
p0 −7.041e−05 ± 3.403e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 87
Mean 33.51
Std Dev 39.61
2
1
0
−1
−2
−3

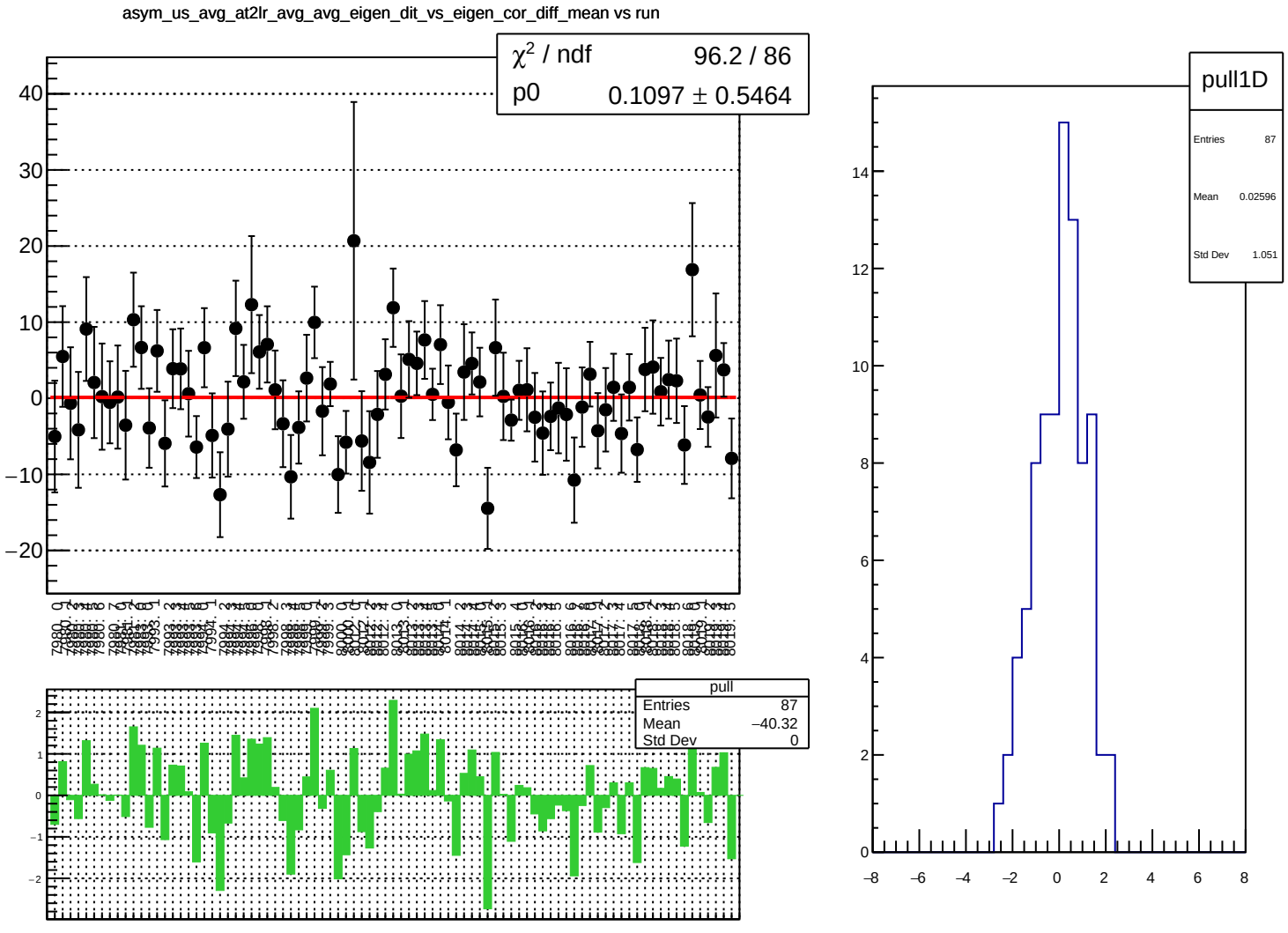

pull1D
Entries 87
Mean 0.01511
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

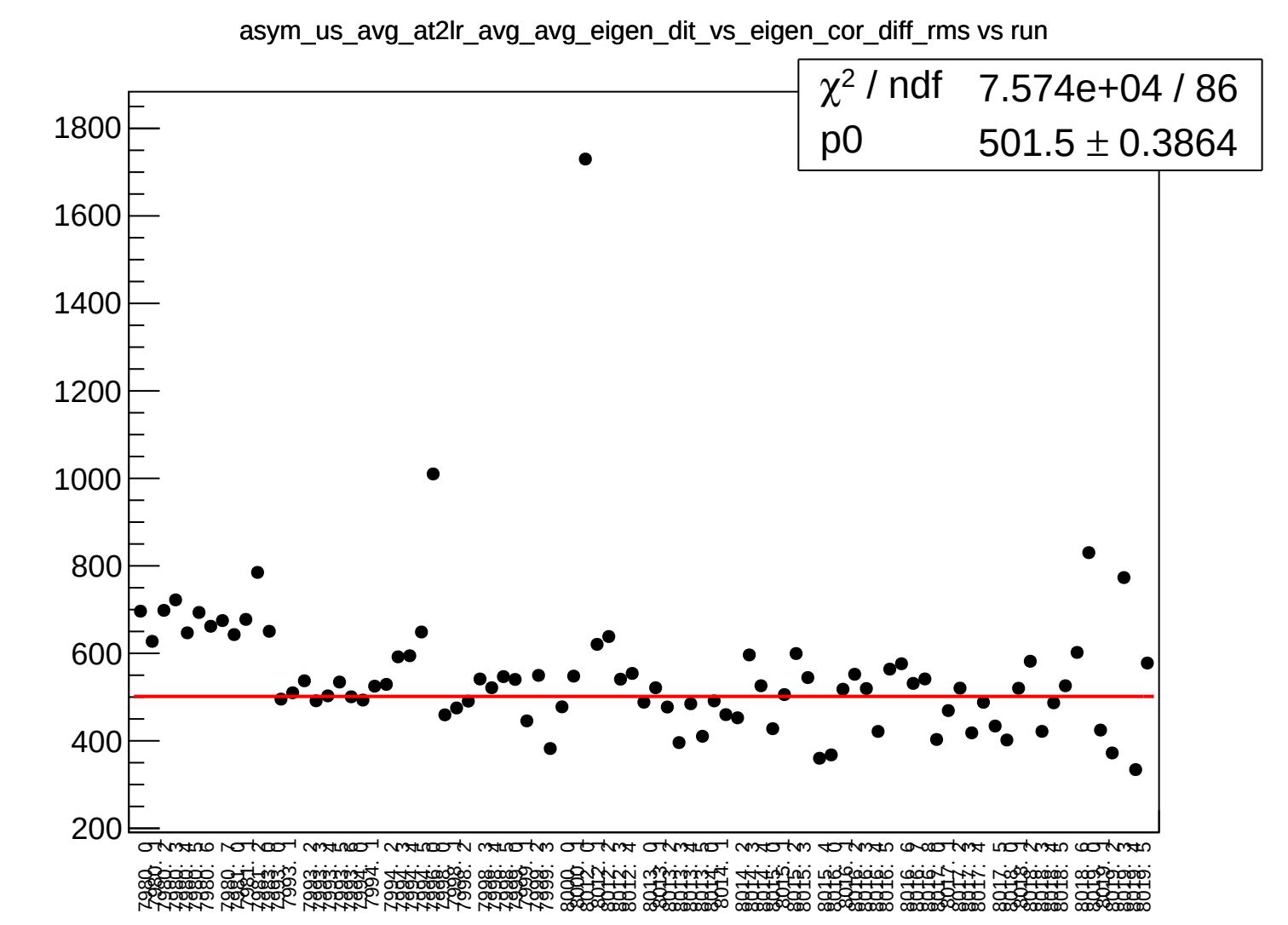

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.883e+04 / 86
p0 0.03149 ± 2.406e−05
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024

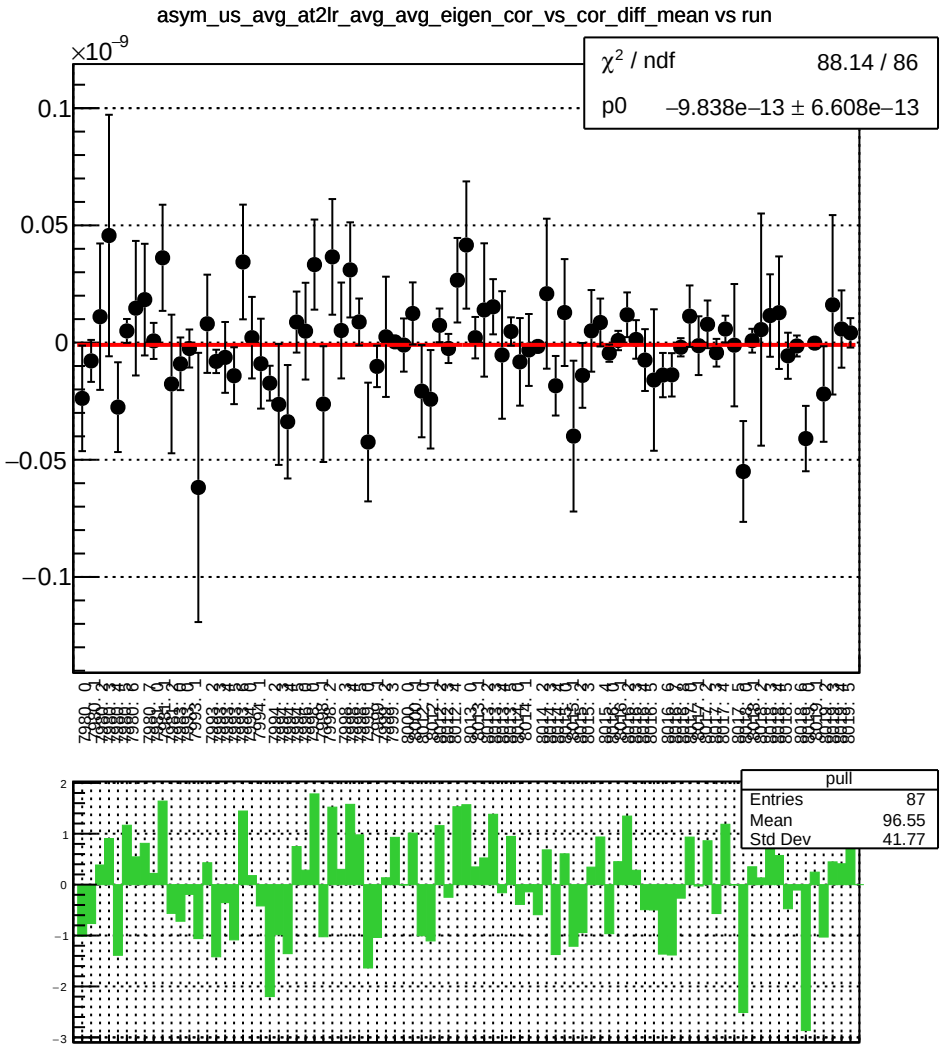

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.2 / 86
p0 0.1097 ± 0.5464
pull
Entries 87
Mean −40.32
Std Dev 0

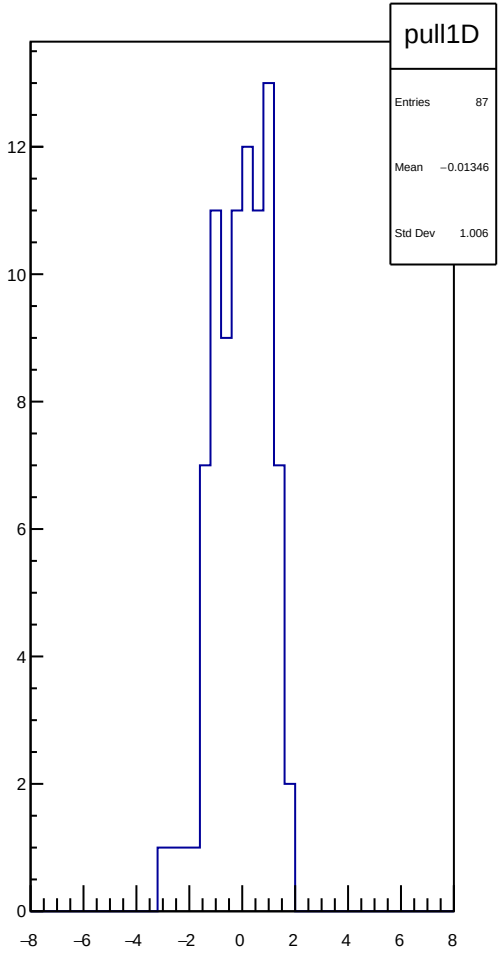

pull1D
Entries 87
Mean 0.02596
Std Dev 1.051

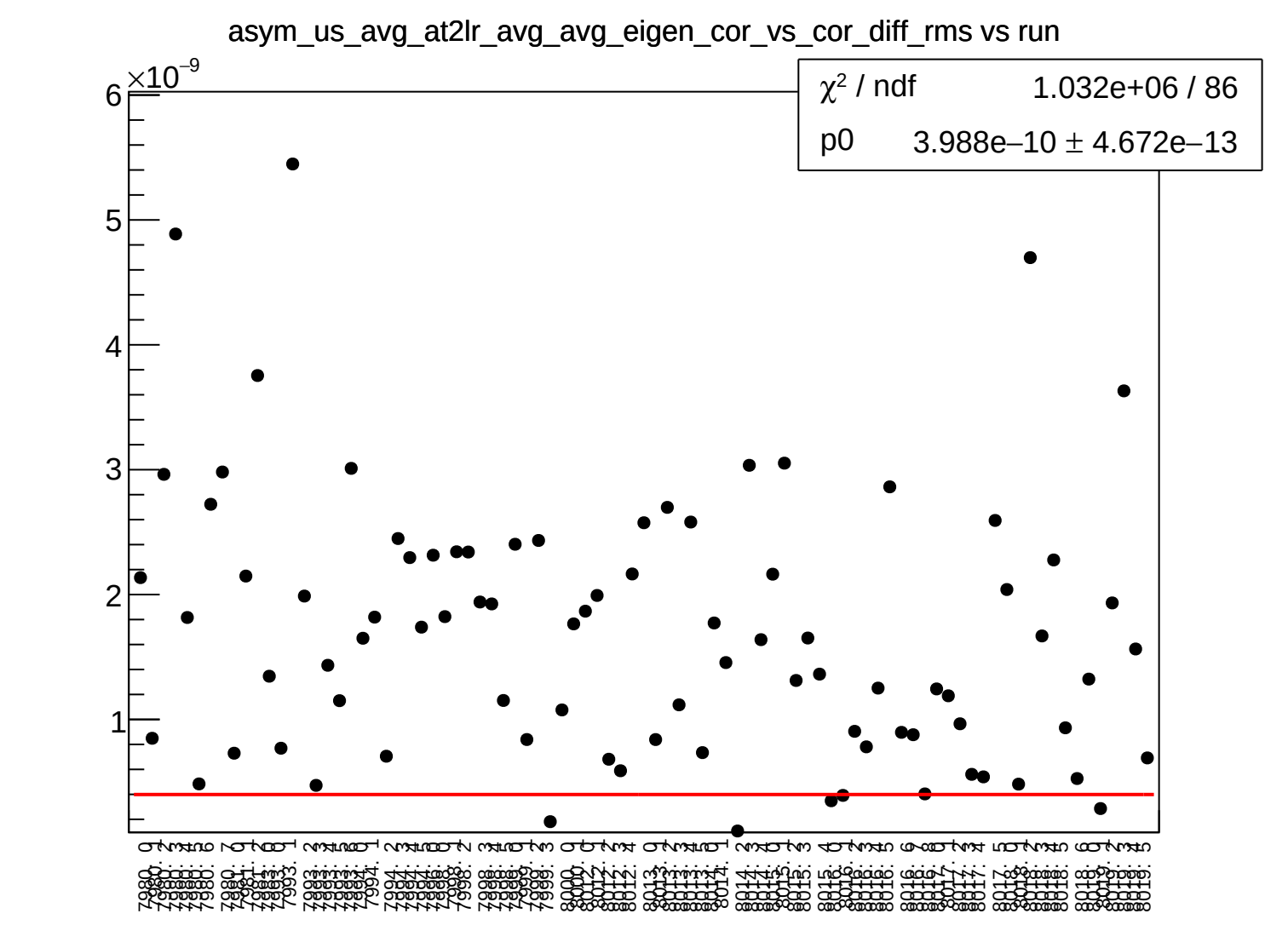

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.574e+04 / 86
p0 501.5 ± 0.3864
1800
1600
1400
1200
1000
800
600
400
200

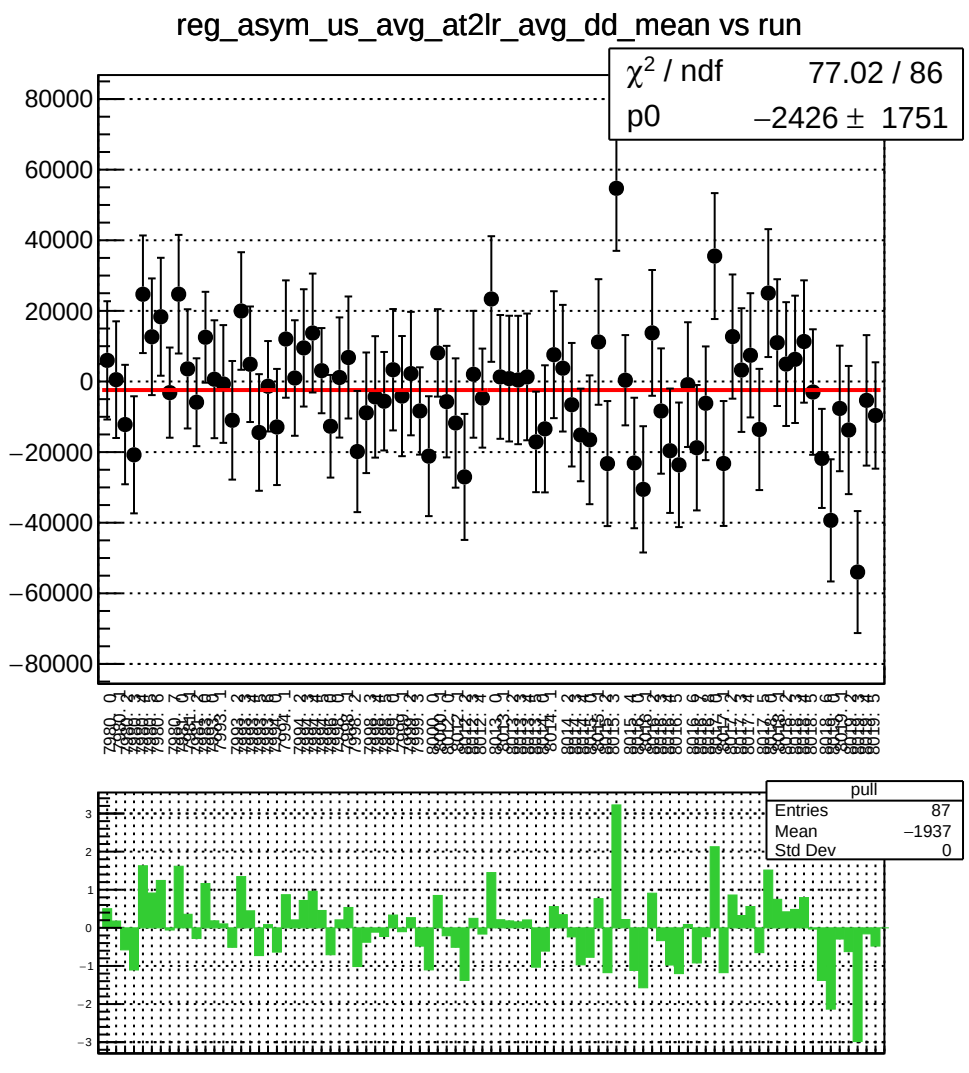

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.2 / 86
p0 0.1097 ± 0.5464
pull
Entries 87
Mean −40.32
Std Dev 0
pull1D
Entries 87
Mean 0.02596
Std Dev 1.051

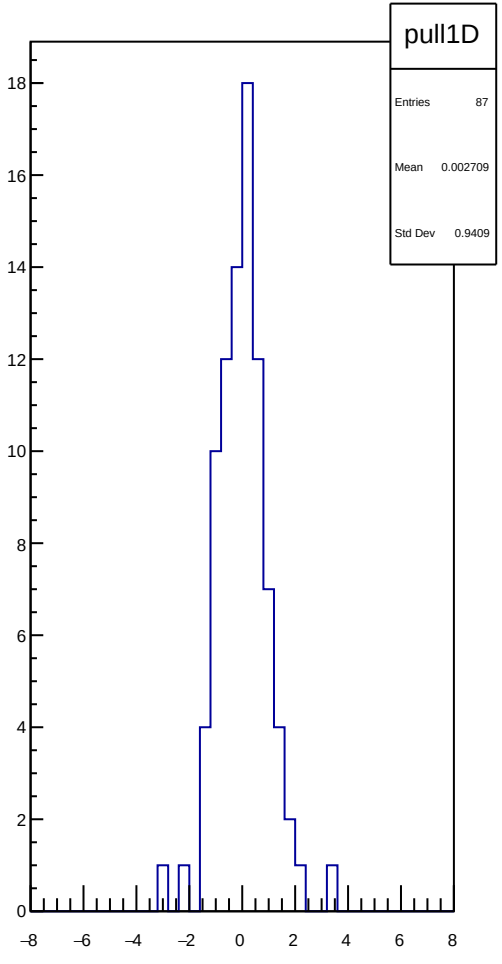

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.574e+04 / 86
p0 501.5 ± 0.3864
1800
1600
1400
1200
1000
800
600
400
200

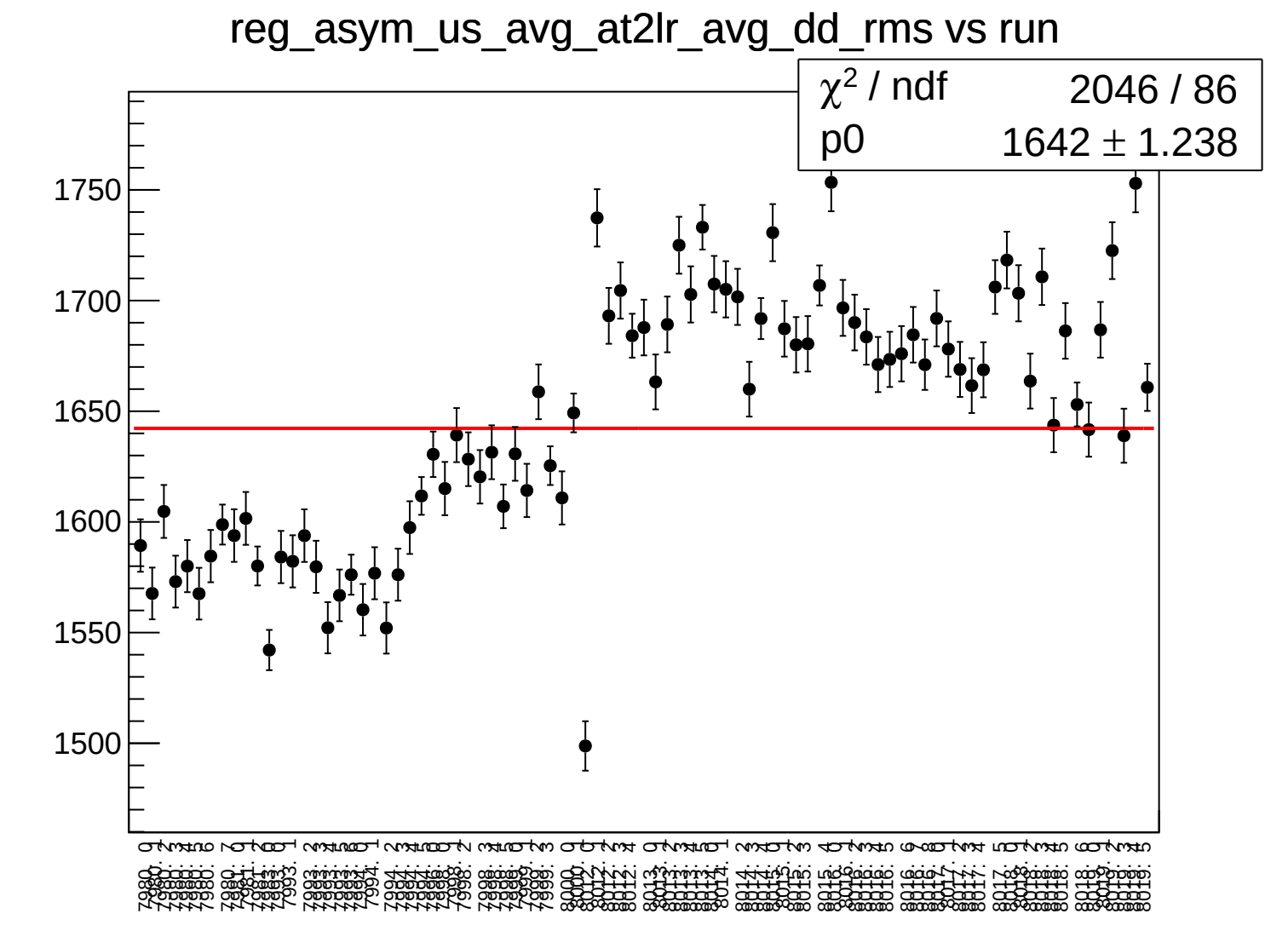

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 88.14 / 86
p0 −9.838e−13 ± 6.608e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 96.55
Std Dev 41.77
2
1
0
−1
−2
−3

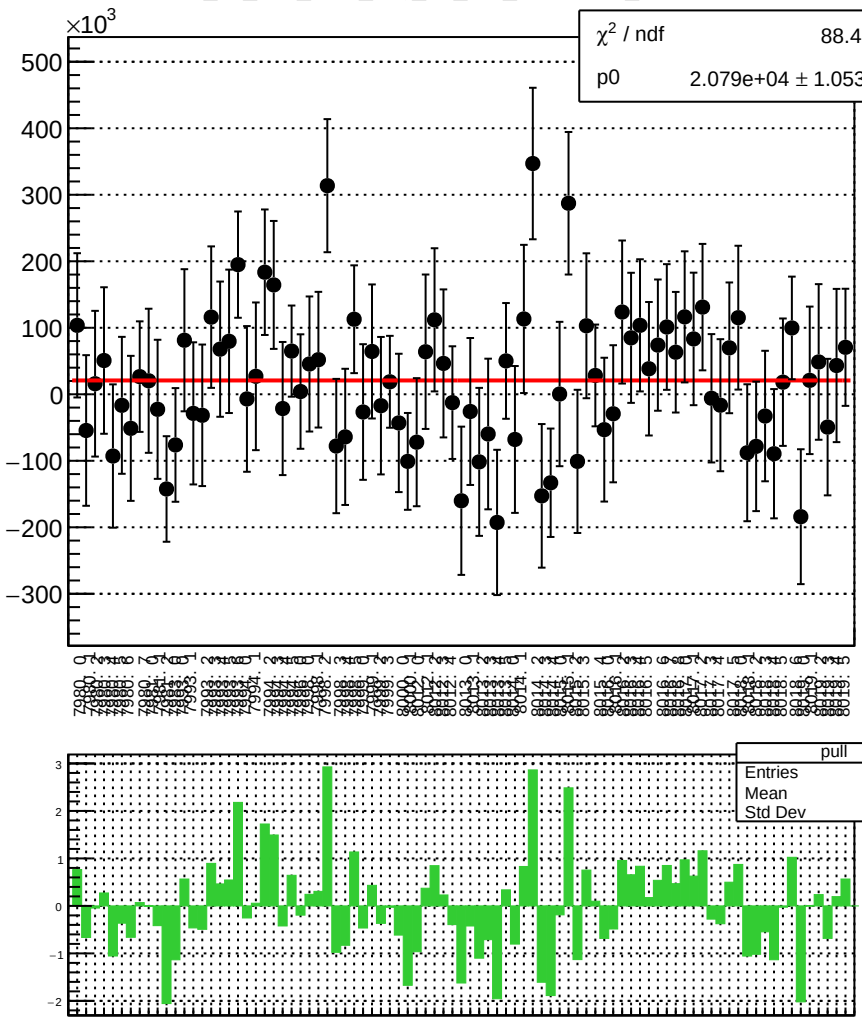

pull1D
Entries 87
Mean −0.01346
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

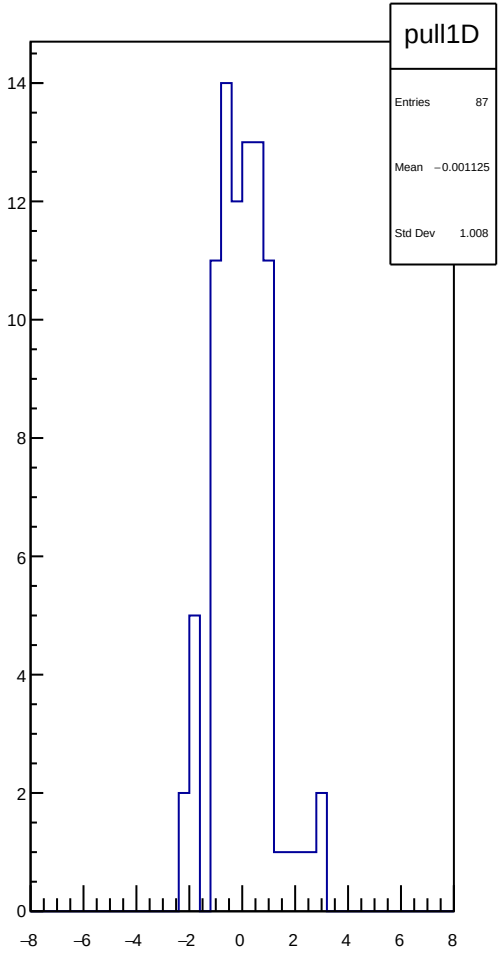

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
6
5
4
3
2
1
χ² / ndf 1.032e+06 / 86
p0 3.988e−10 ± 4.672e−13

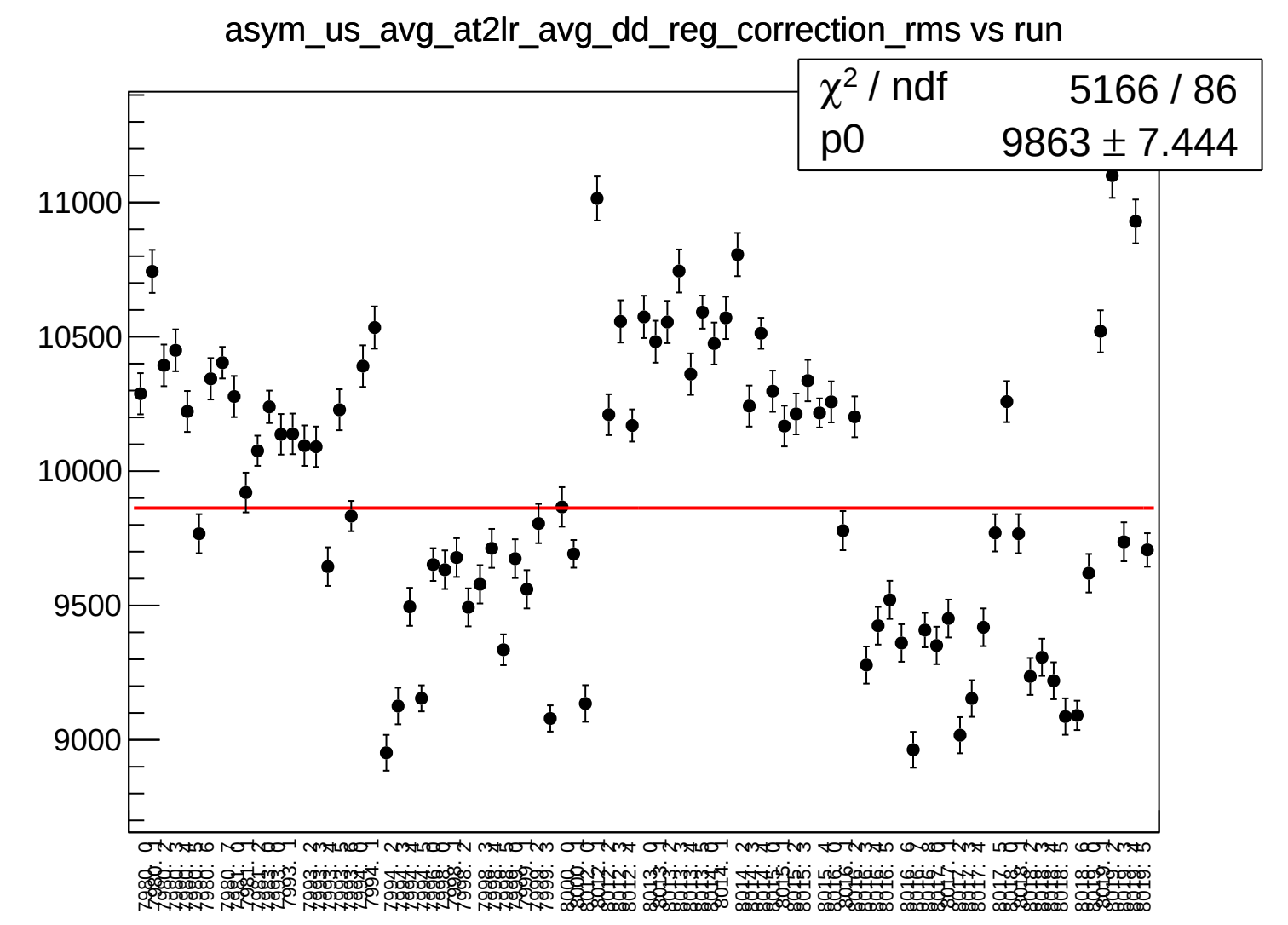

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 77.02 / 86
p0 −2426 ± 1751
pull
Entries 87
Mean −1937
Std Dev 0

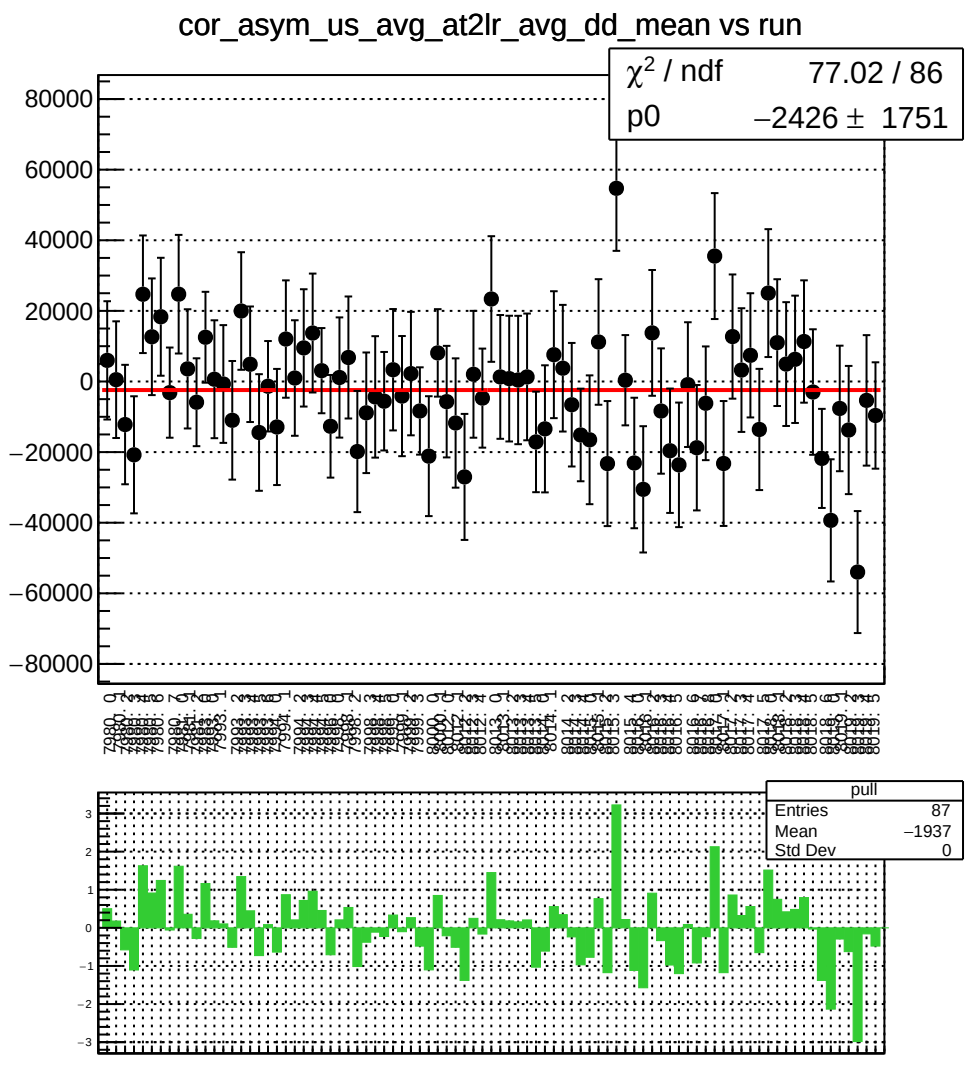

pull1D
Entries 87
Mean 0.002709
Std Dev 0.9409

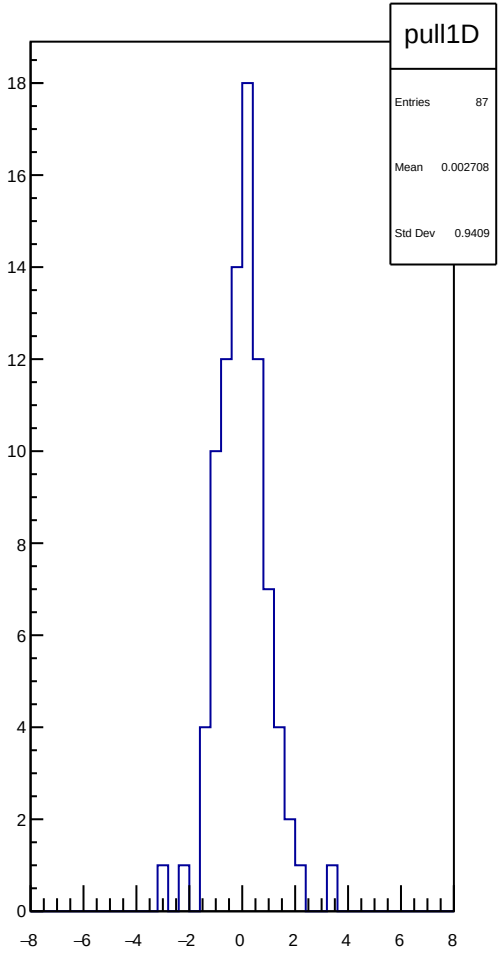

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2046 / 86
p0 1642 ± 1.238
1750
1700
1650
1600
1550
1500

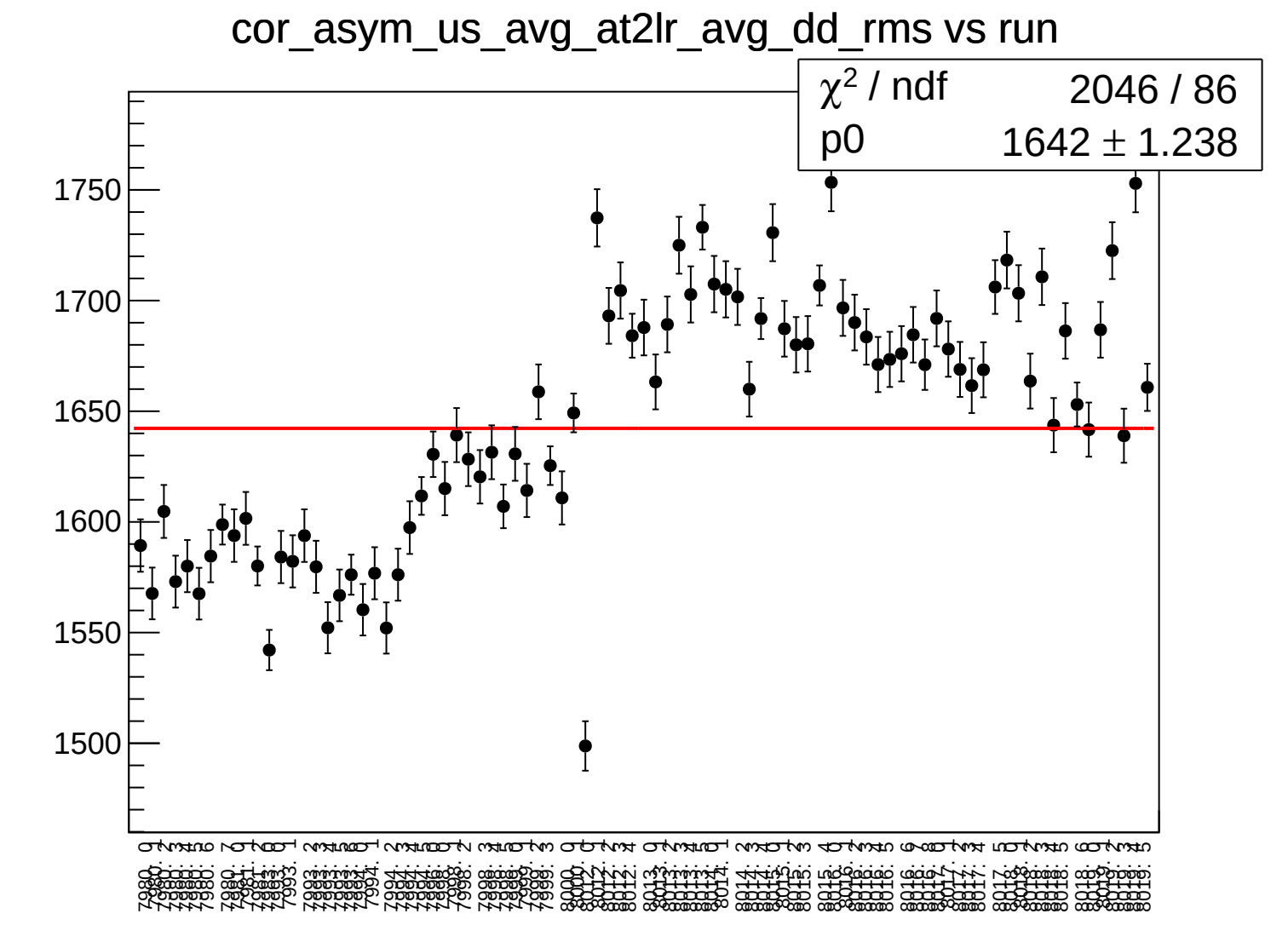

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.45 / 86
p0 2.079e+04 ± 1.053e+04
pull
Entries 87
Mean −163.3
Std Dev 0

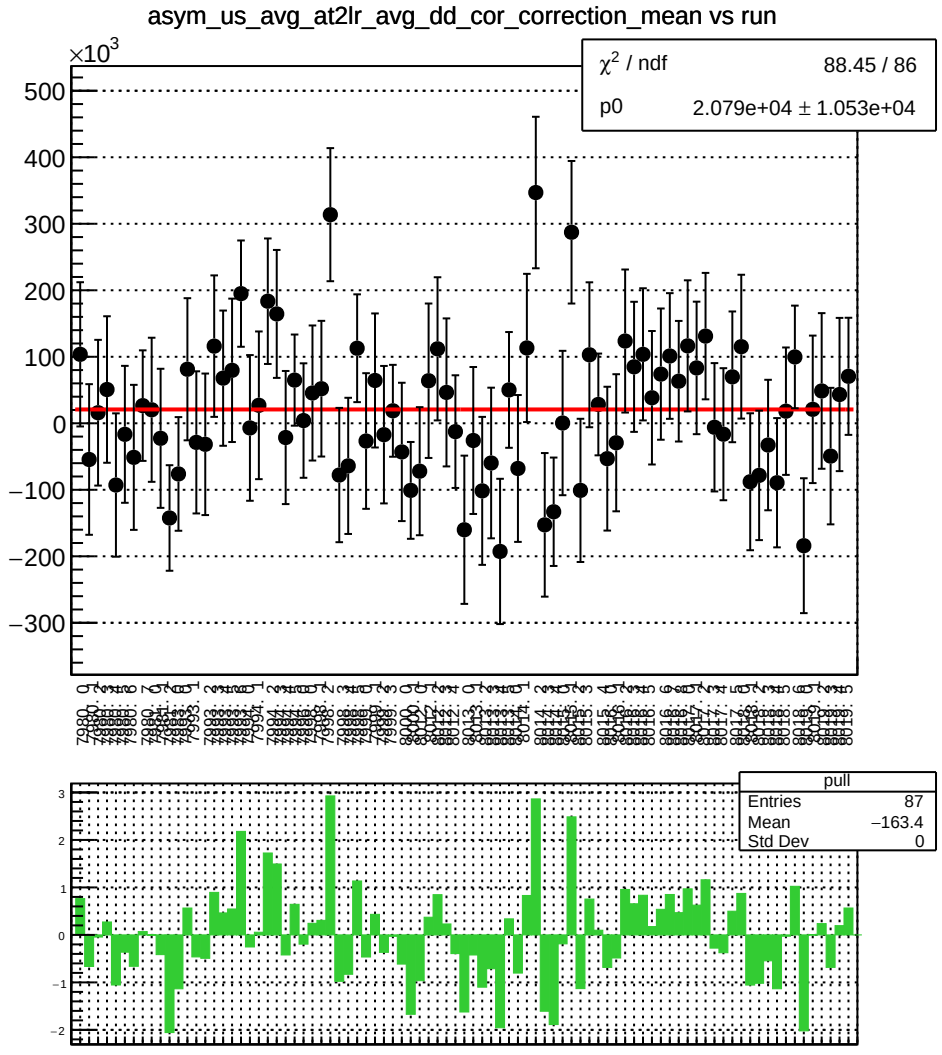

pull1D
Entries 87
Mean −0.001125
Std Dev 1.008

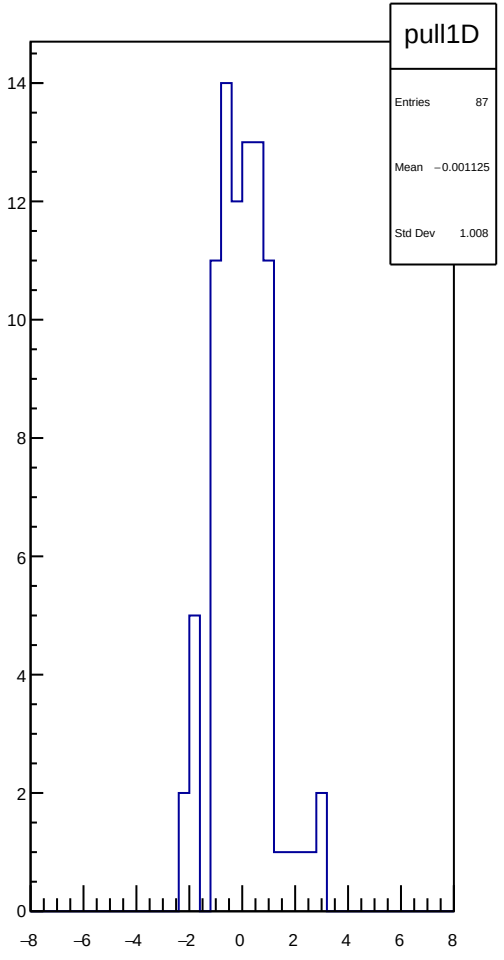

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5166 / 86
p0 9863 ± 7.444
11000
10500
10000
9500
9000

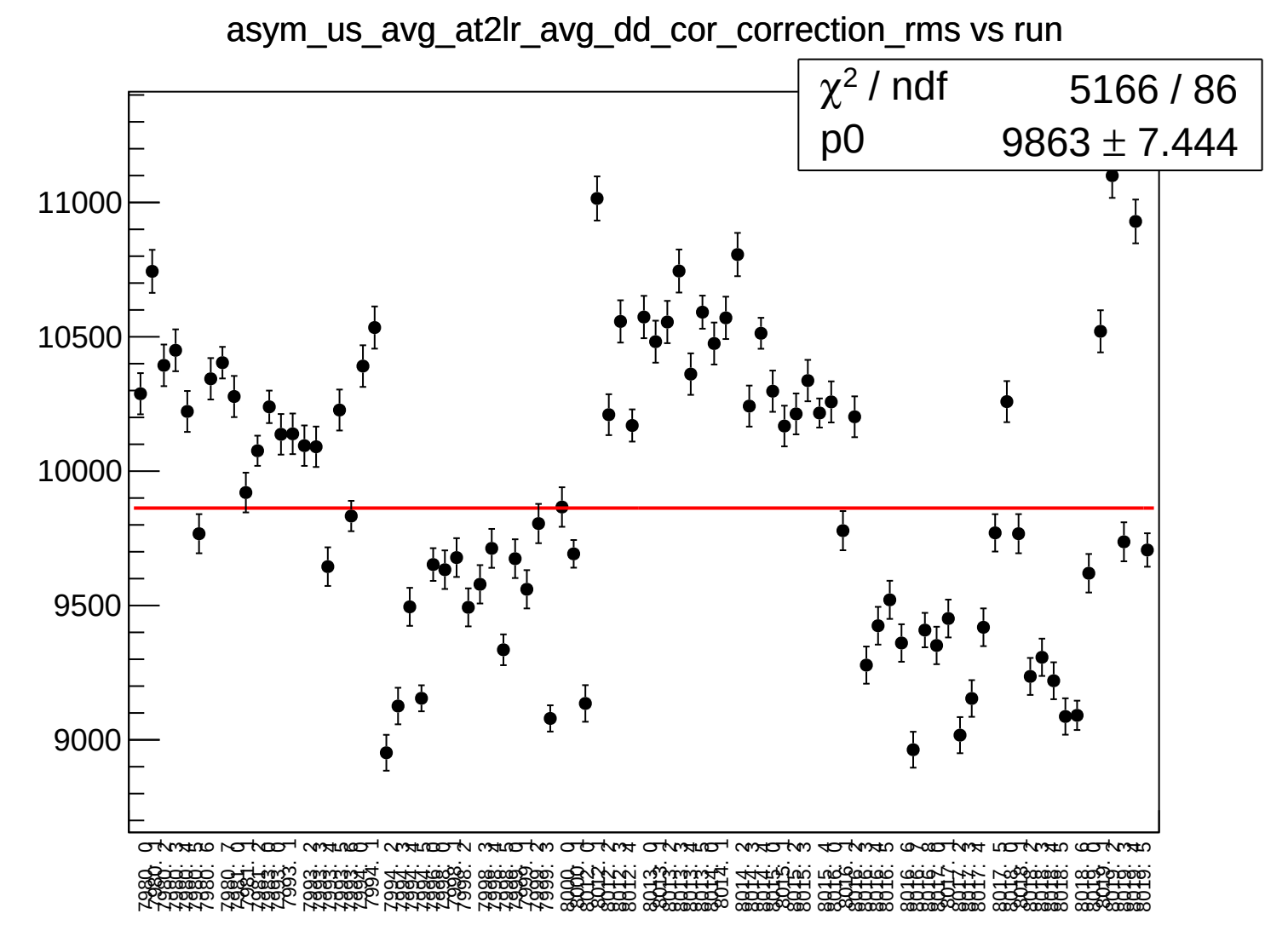

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 77.02 / 86
p0 −2426 ± 1751
pull
Entries 87
Mean −1937
Std Dev 0

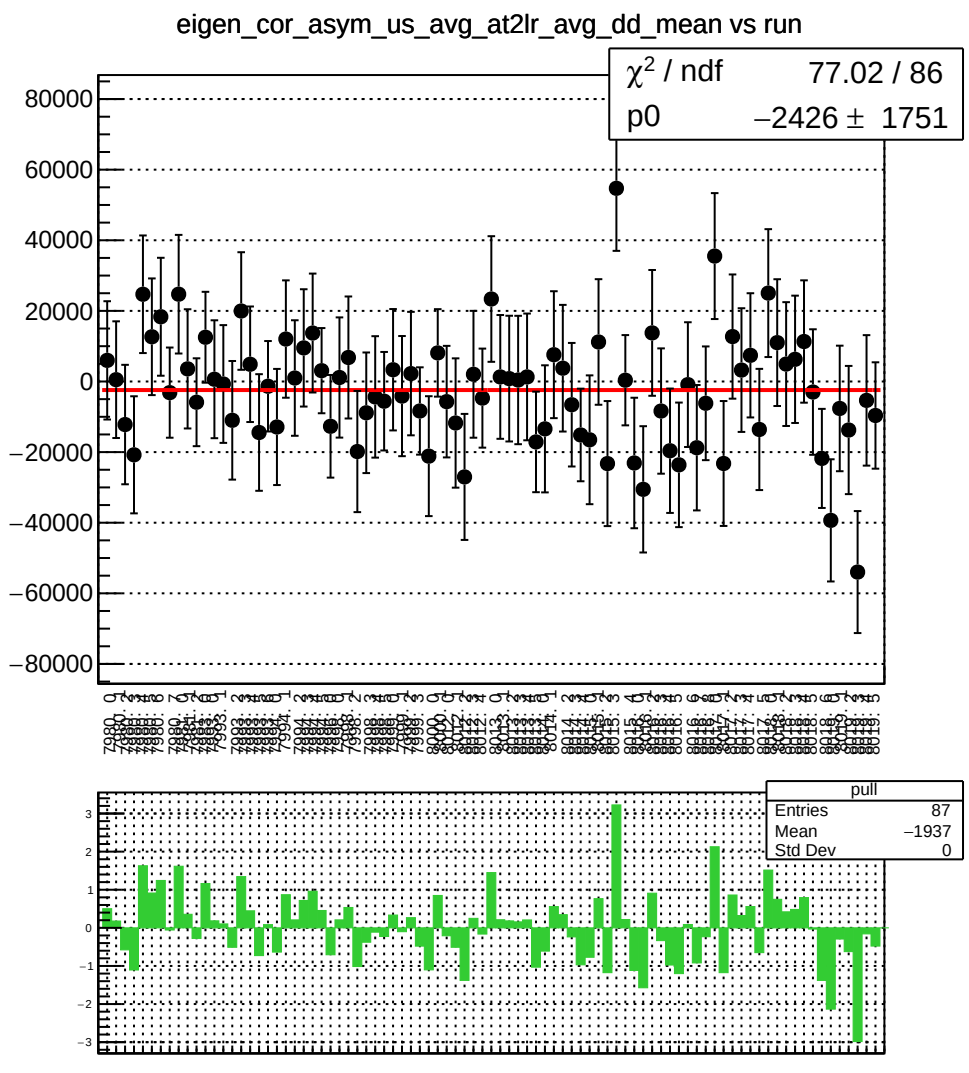

pull1D
Entries 87
Mean 0.002708
Std Dev 0.9409

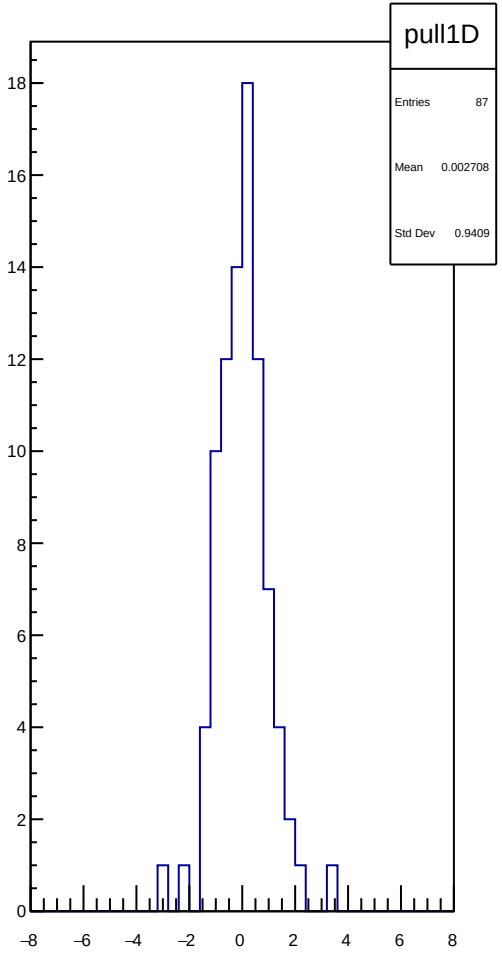

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2046 / 86
p0 1642 ± 1.238
1750
1700
1650
1600
1550
1500

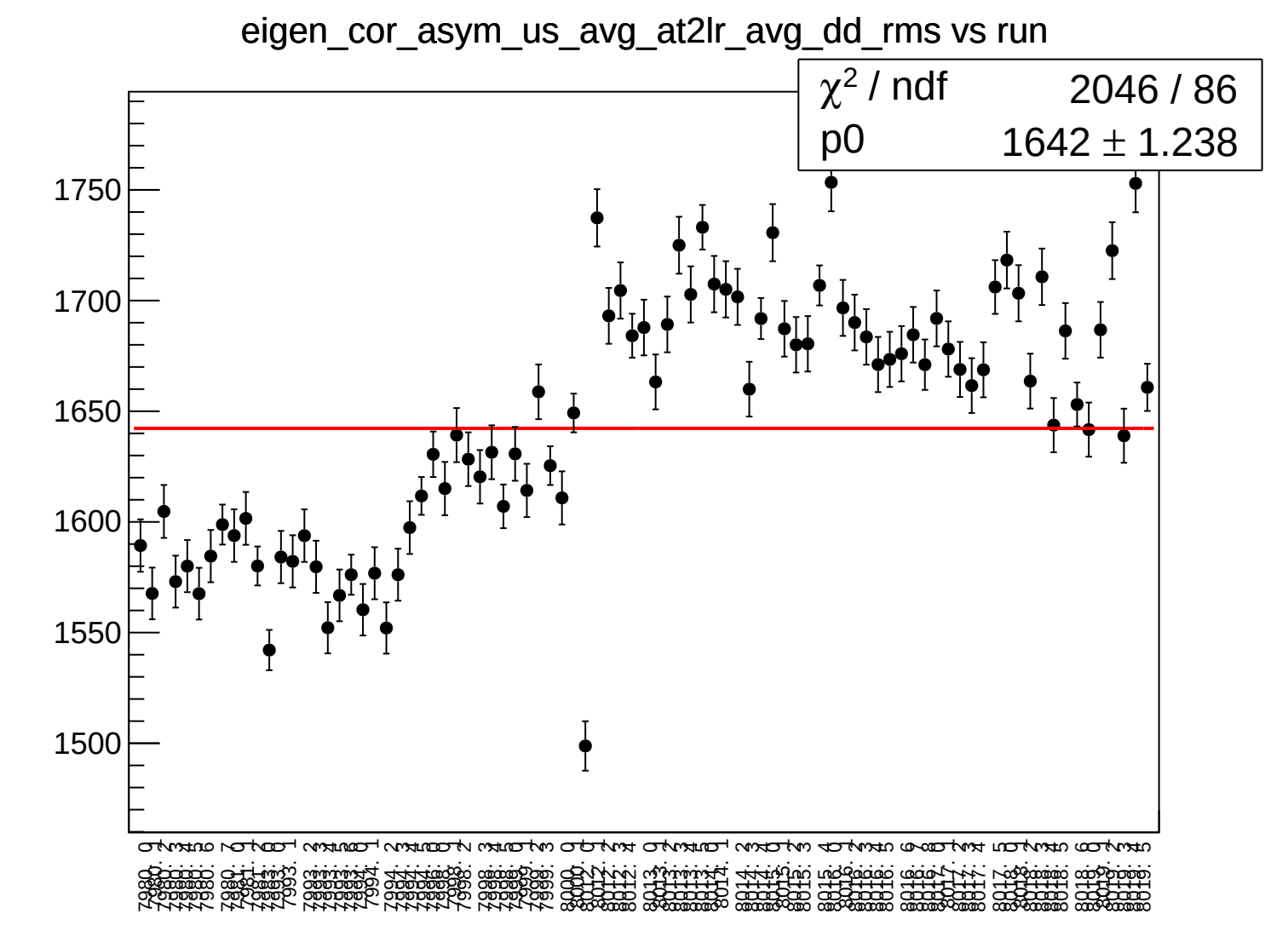

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.45 / 86
p0 2.079e+04 ± 1.053e+04
pull
Entries 87
Mean −163.4
Std Dev 0

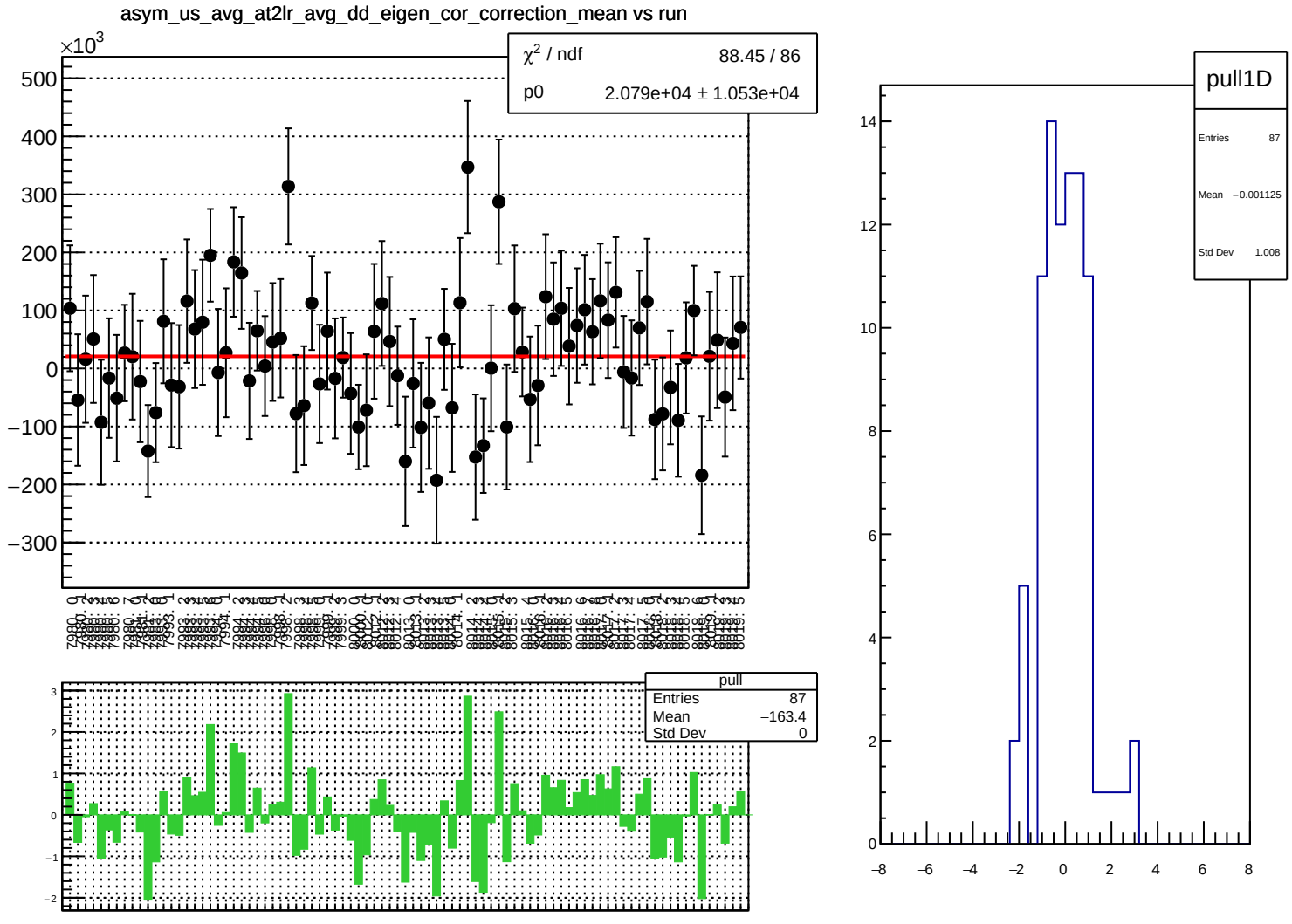

pull1D
Entries 87
Mean −0.001125
Std Dev 1.008

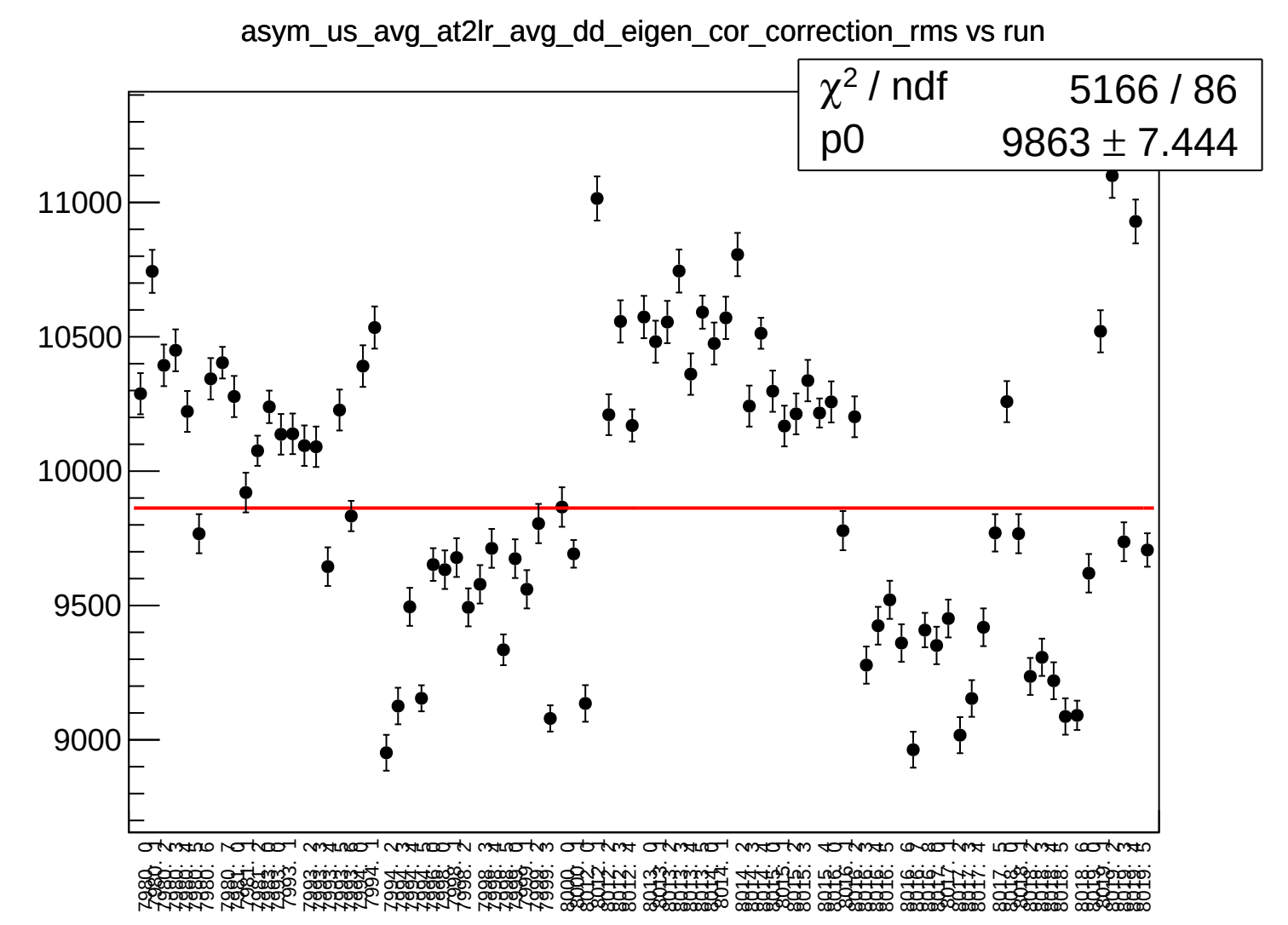

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5166 / 86
p0 9863 ± 7.444
11000
10500
10000
9500
9000

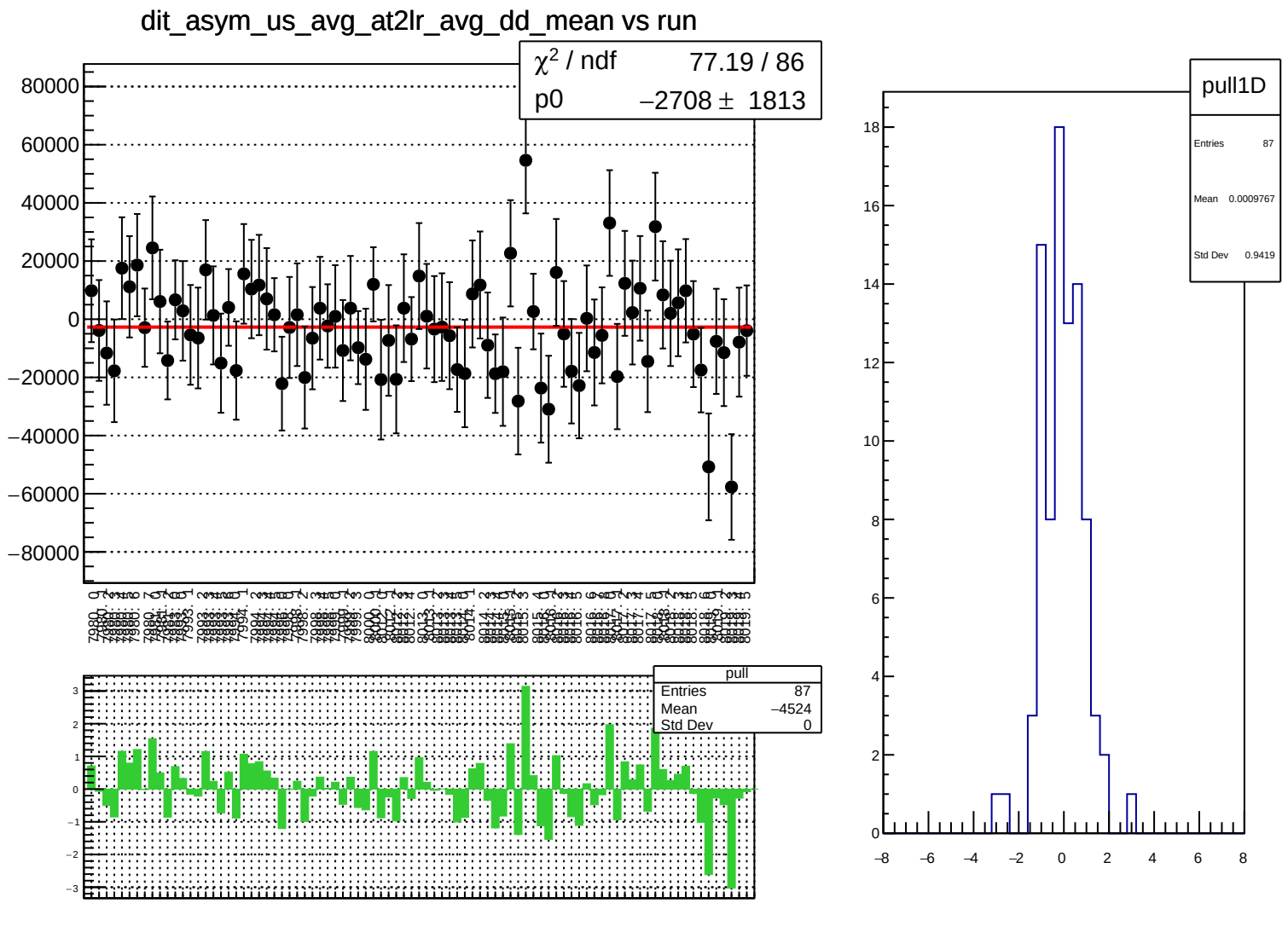

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 77.02 / 86
p0 −2426 ± 1751
pull
Entries 87
Mean −1937
Std Dev 0

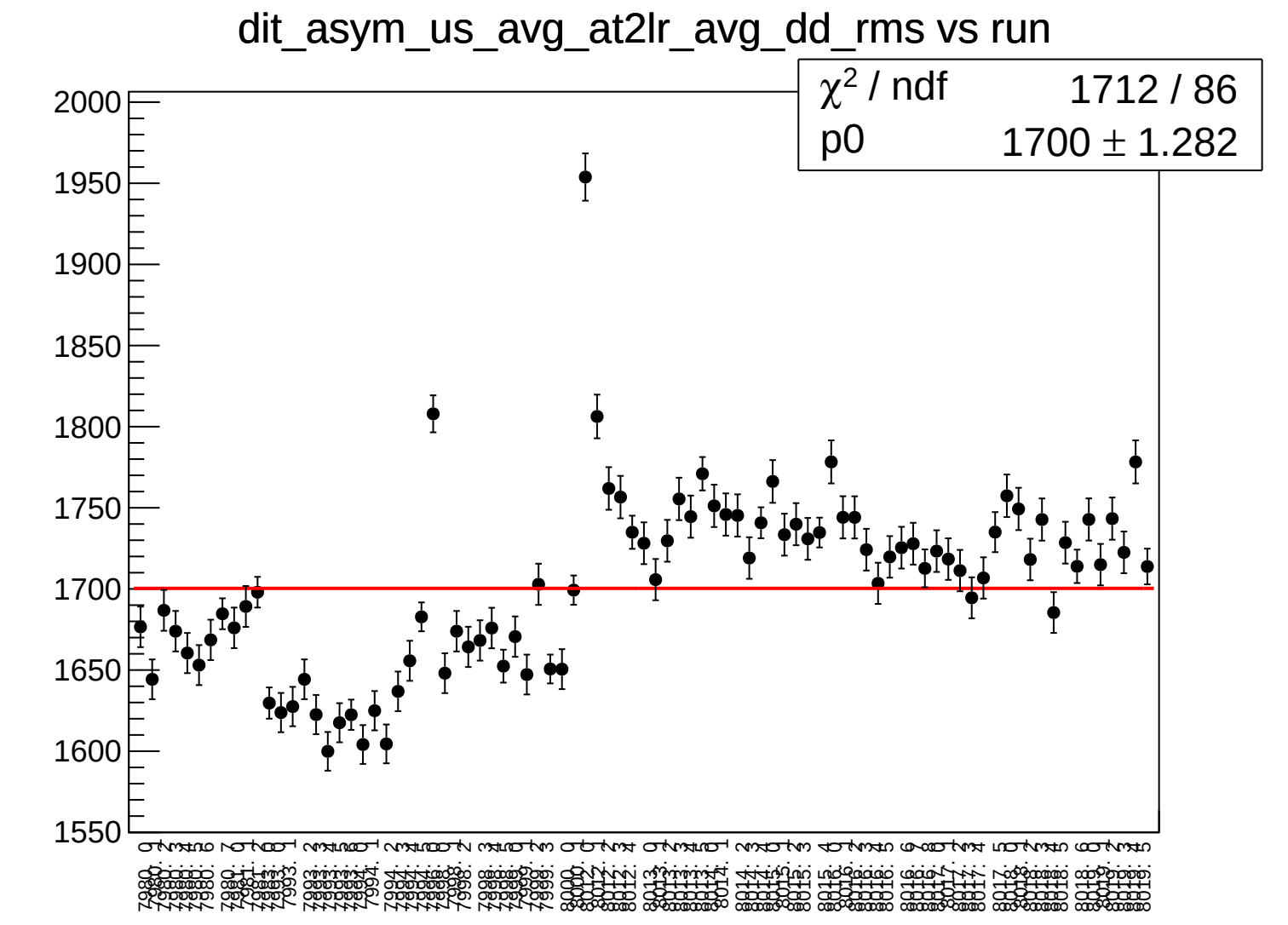

pull1D
Entries 87
Mean 0.002708
Std Dev 0.9409

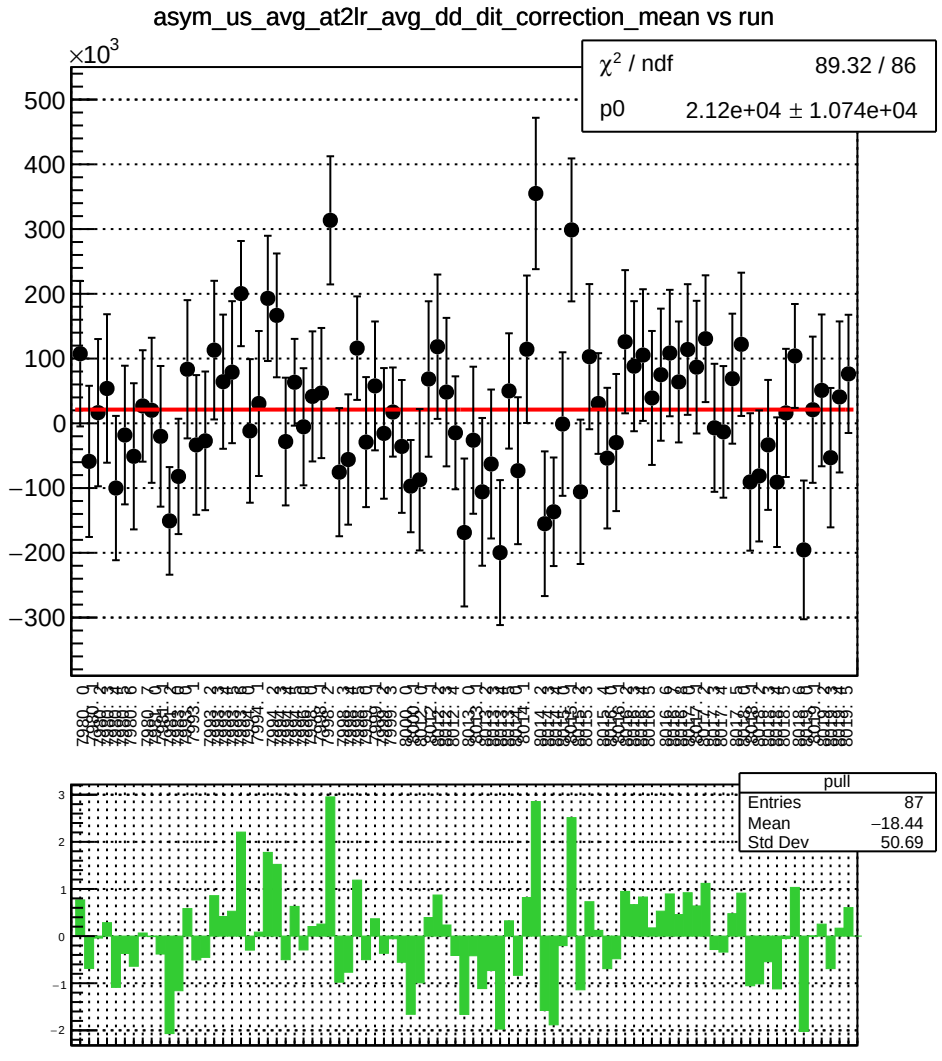

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2046 / 86
p0 1642 ± 1.238
1750
1700
1650
1600
1550
1500

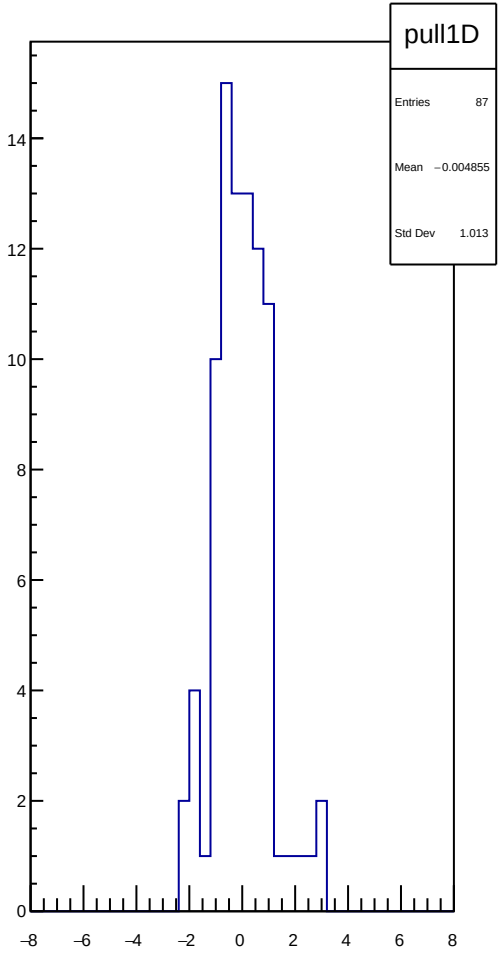

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.45 / 86
p0 2.079e+04 ± 1.053e+04
pull
Entries 87
Mean −163.4
Std Dev 0
pull1D
Entries 87
Mean −0.001125
Std Dev 1.008

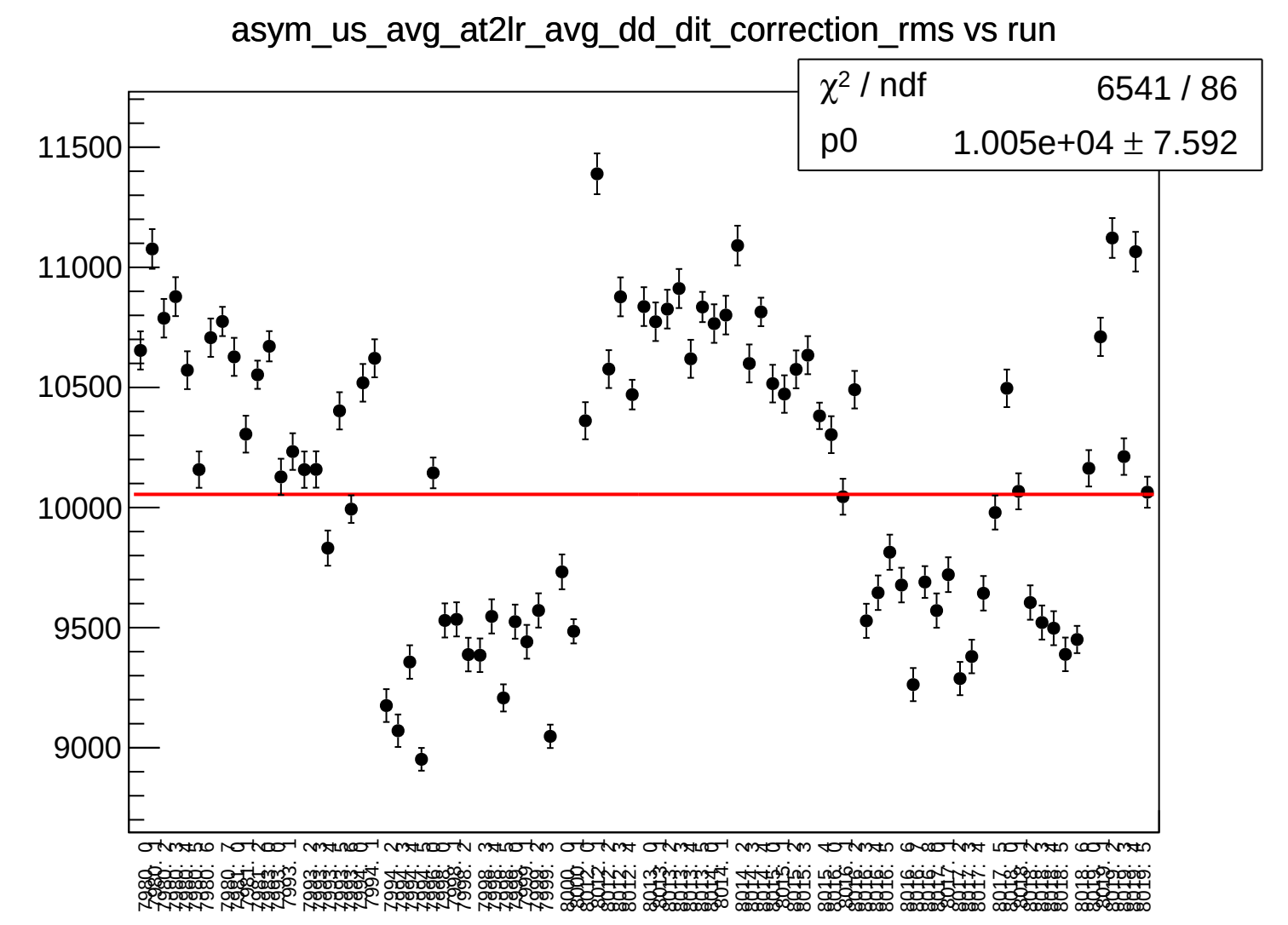

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5166 / 86
p0 9863 ± 7.444
11000
10500
10000
9500
9000

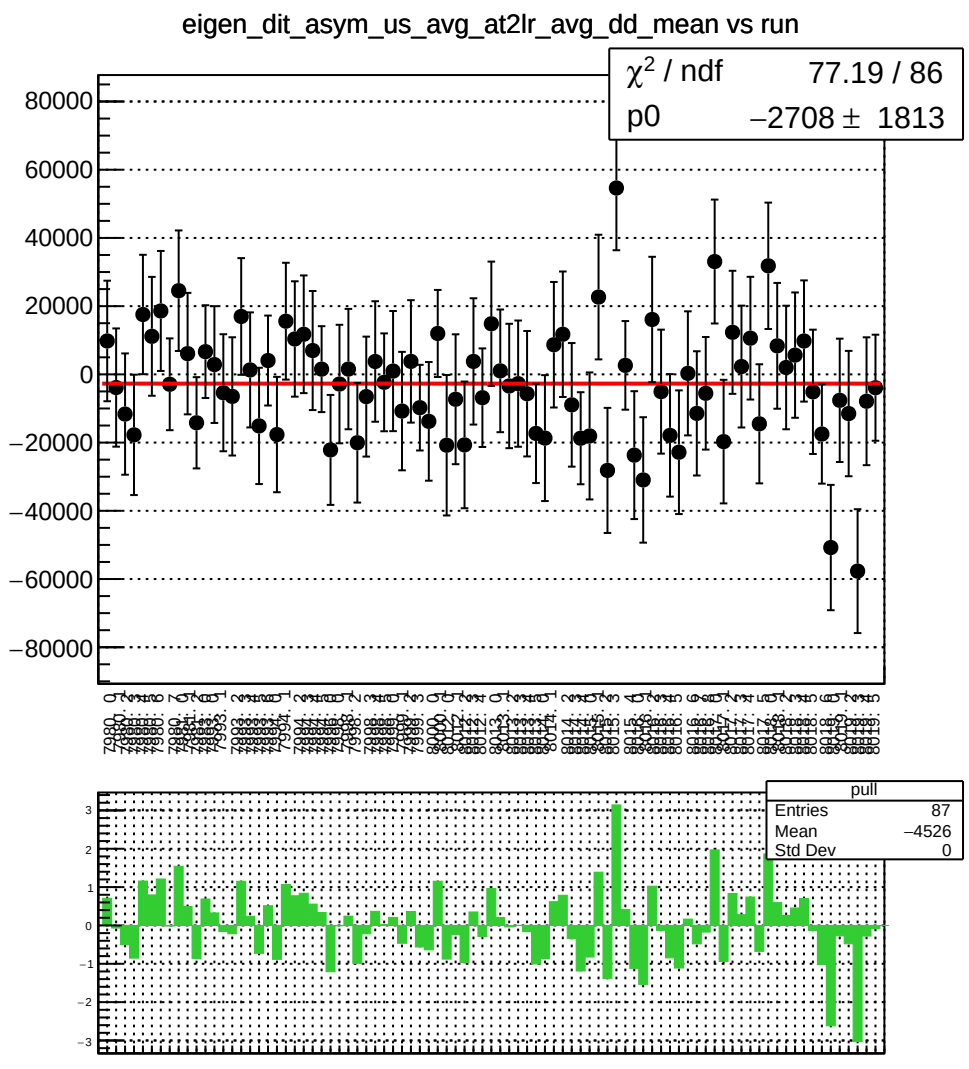

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 77.19 / 86
p0 −2708 ± 1813
pull
Entries 87
Mean −4524
Std Dev 0
pull1D
Entries 87
Mean 0.0009767
Std Dev 0.9419

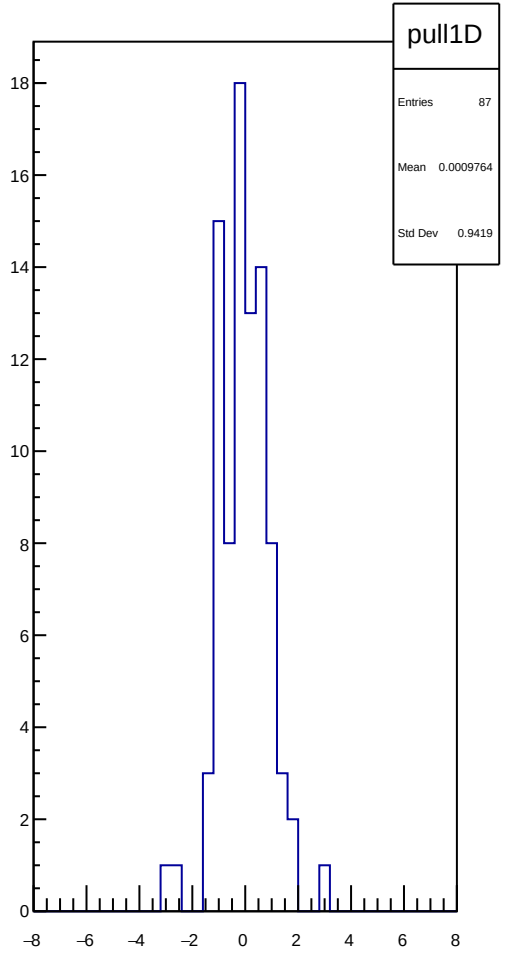

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1712 / 86
p0 1700 ± 1.282
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550

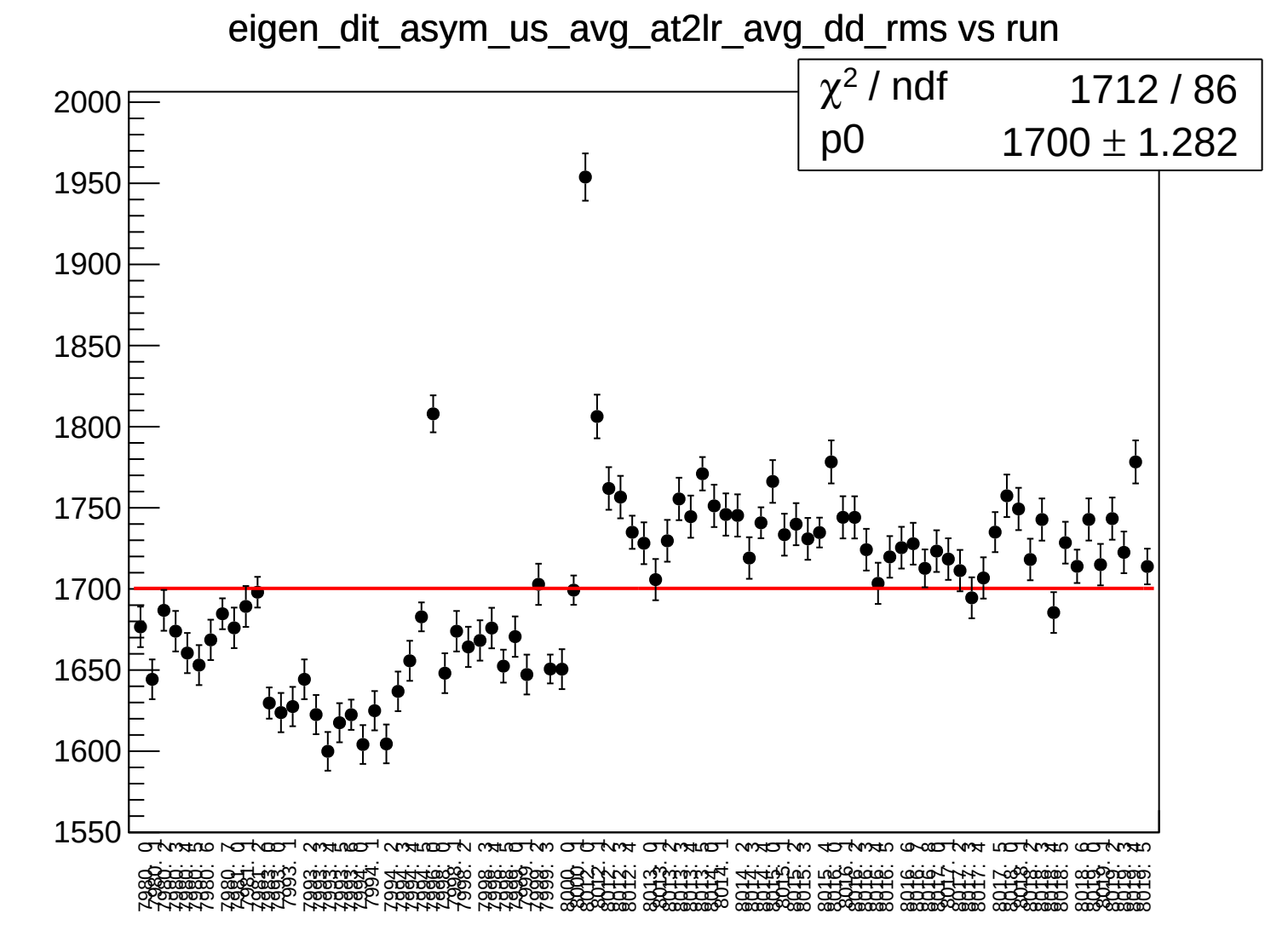

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
χ² / ndf 89.32 / 86
p0 2.12e+04 ± 1.074e+04
×10³
pull
Entries 87
Mean −18.44
Std Dev 50.69

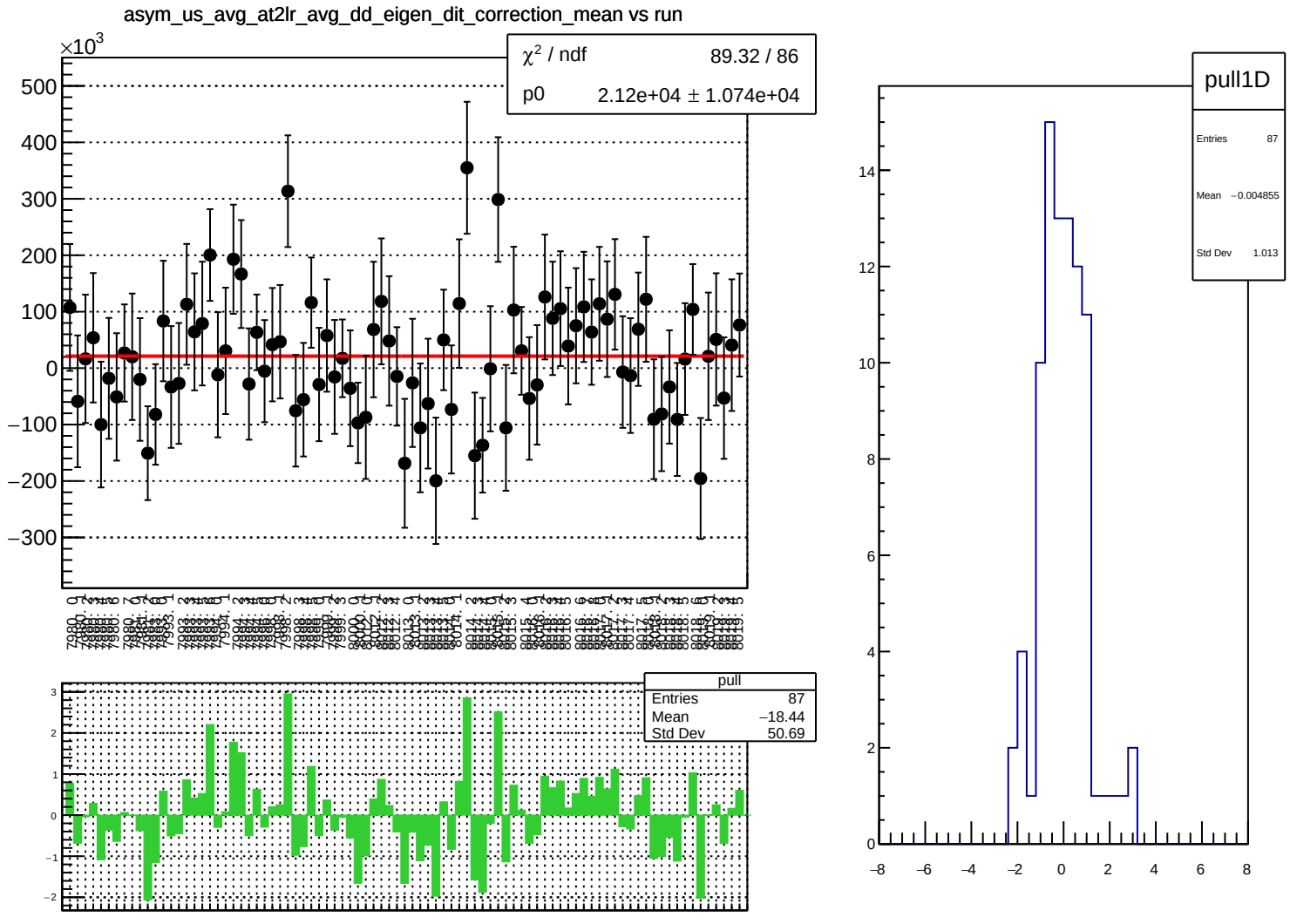

pull1D
Entries 87
Mean −0.004855
Std Dev 1.013

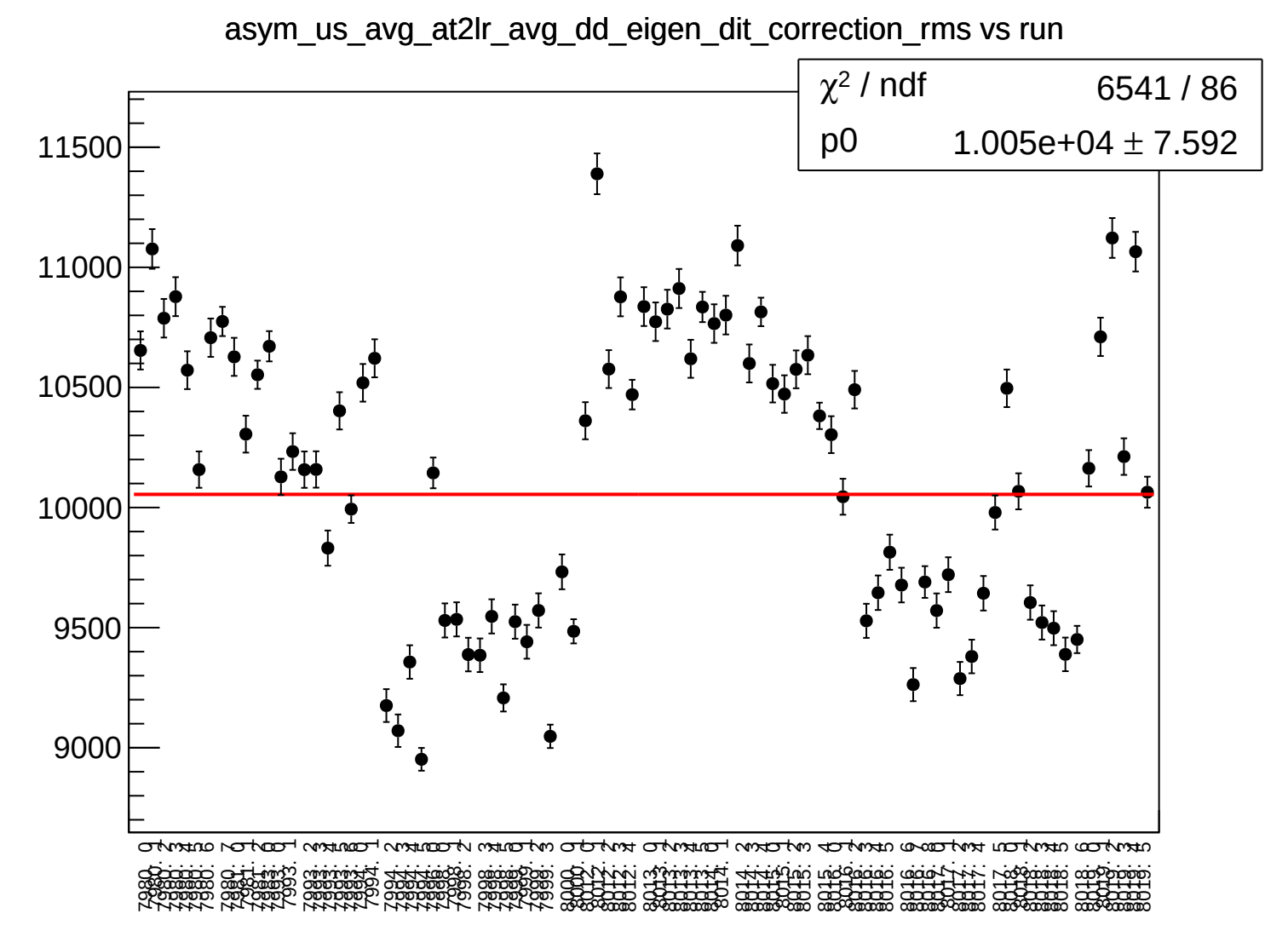

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6541 / 86
p0 1.005e+04 ± 7.592
11500
11000
10500
10000
9500
9000

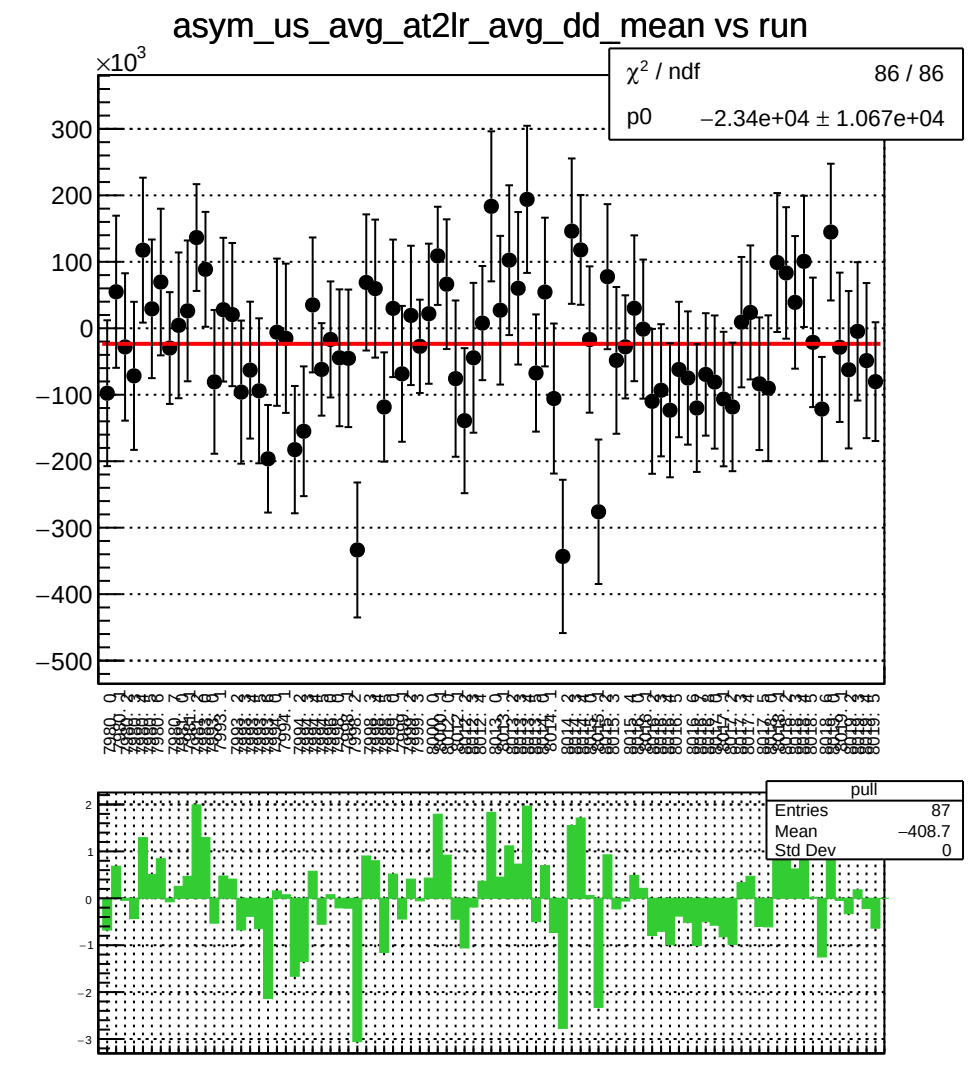

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 77.19 / 86
p0 −2708 ± 1813
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −4526
Std Dev 0
3
2
1
0
−1
−2
−3

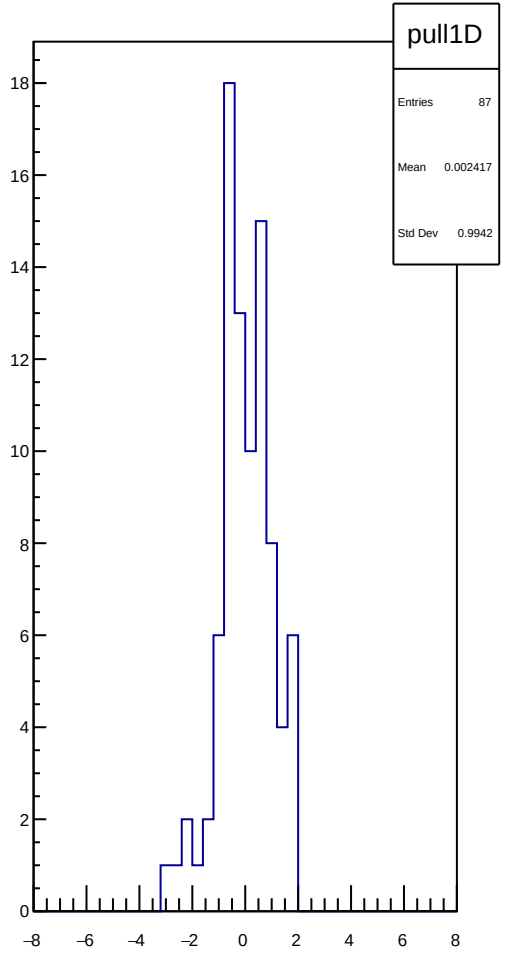

pull1D
Entries 87
Mean 0.0009764
Std Dev 0.9419
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

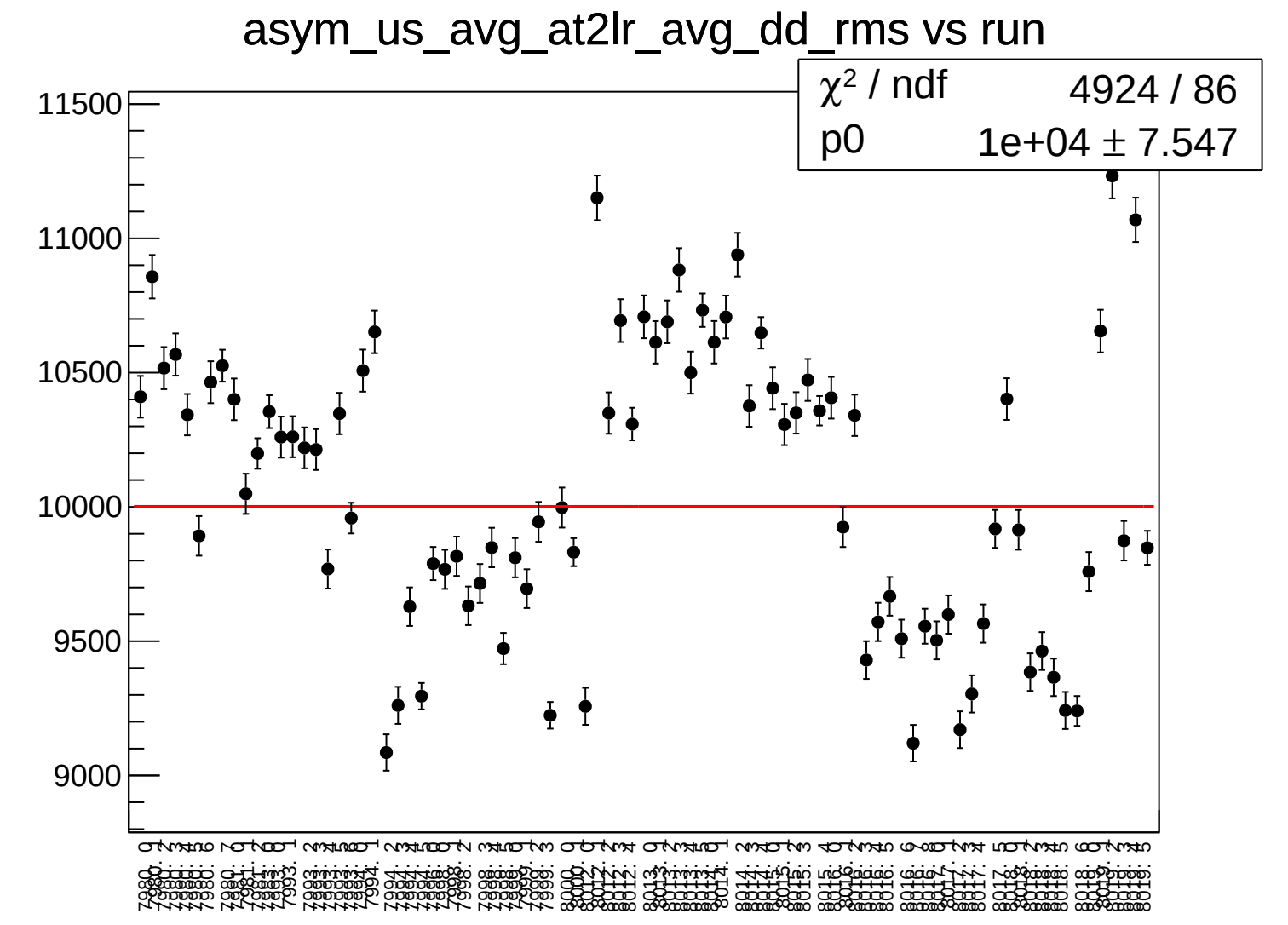

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1712 / 86
p0 1700 ± 1.282
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550

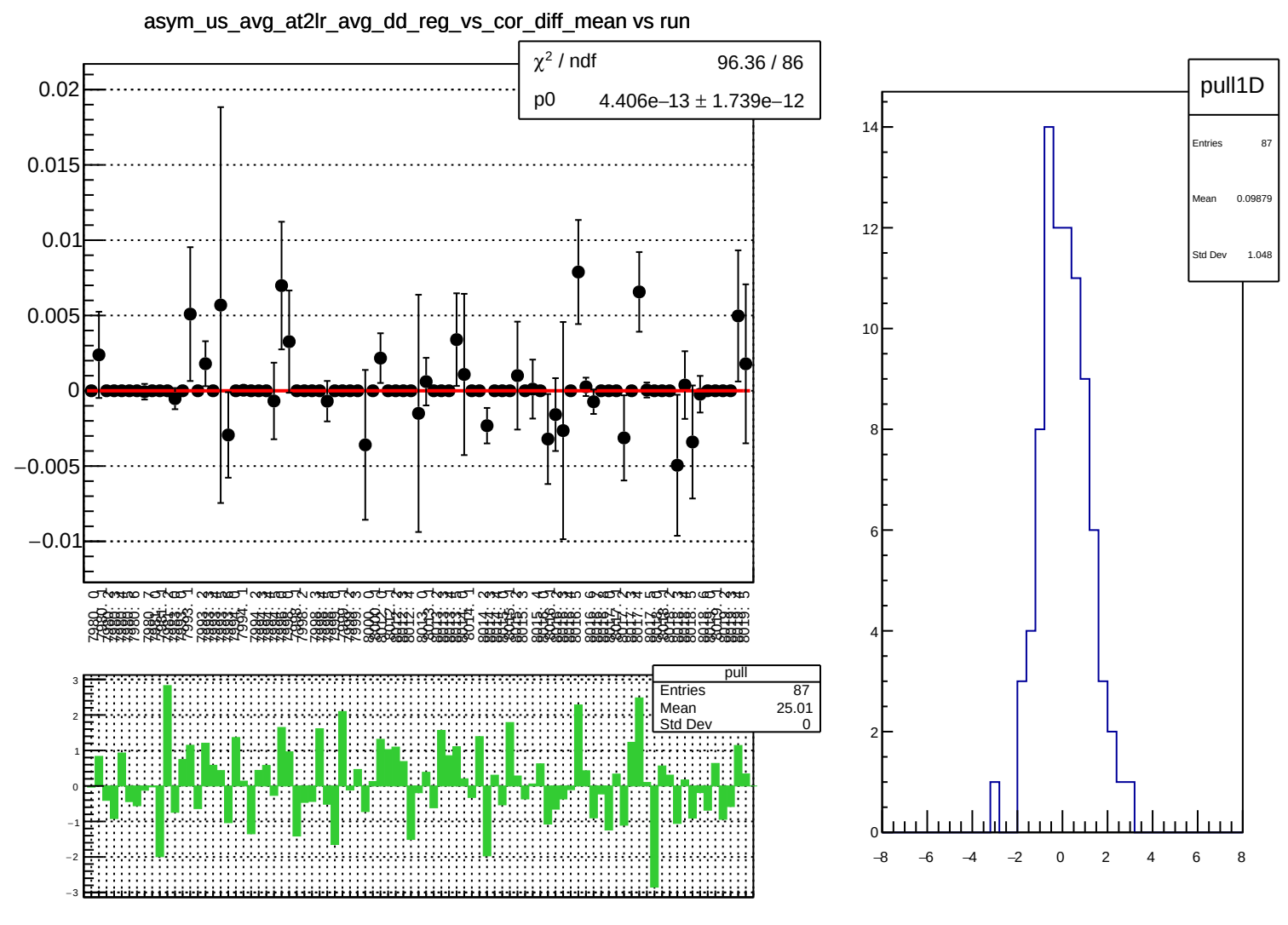

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.32 / 86
p0 2.12e+04 ± 1.074e+04
pull
Entries 87
Mean −18.44
Std Dev 50.69
pull1D
Entries 87
Mean −0.004855
Std Dev 1.013

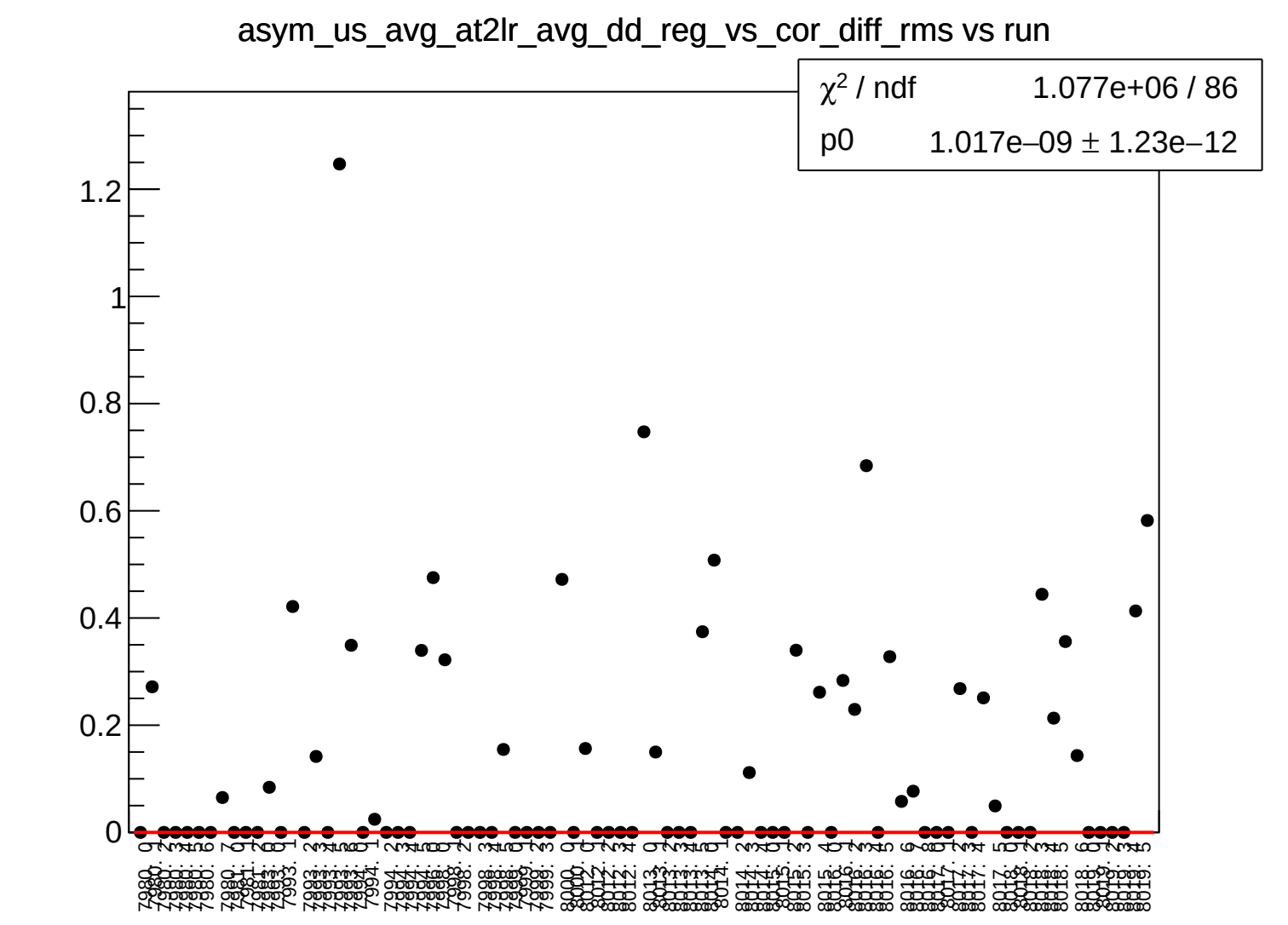

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6541 / 86
p0 1.005e+04 ± 7.592
11500
11000
10500
10000
9500
9000

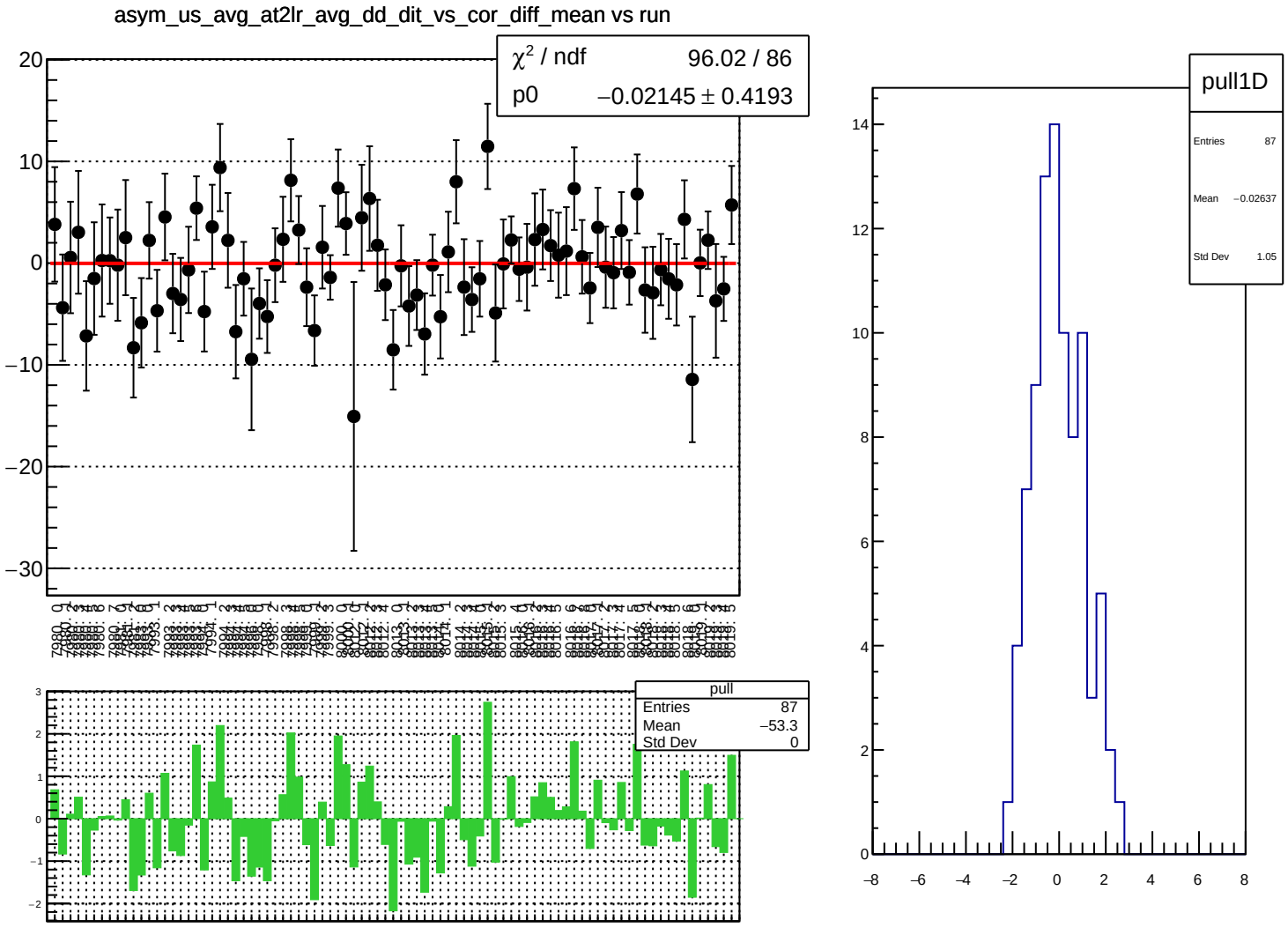

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 86 / 86
p0 −2.34e+04 ± 1.067e+04
pull
Entries 87
Mean −408.7
Std Dev 0

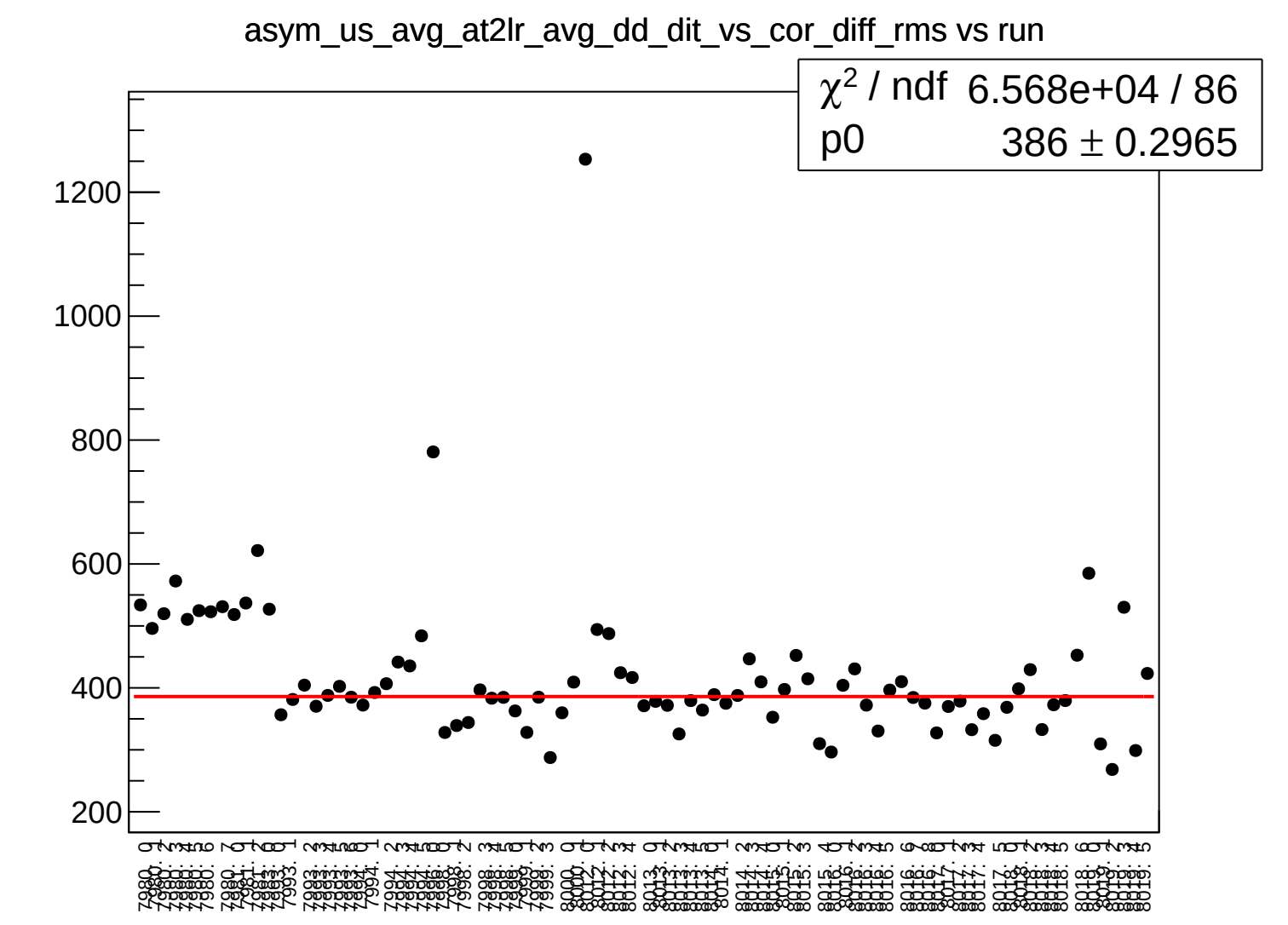

pull1D
Entries 87
Mean 0.002417
Std Dev 0.9942

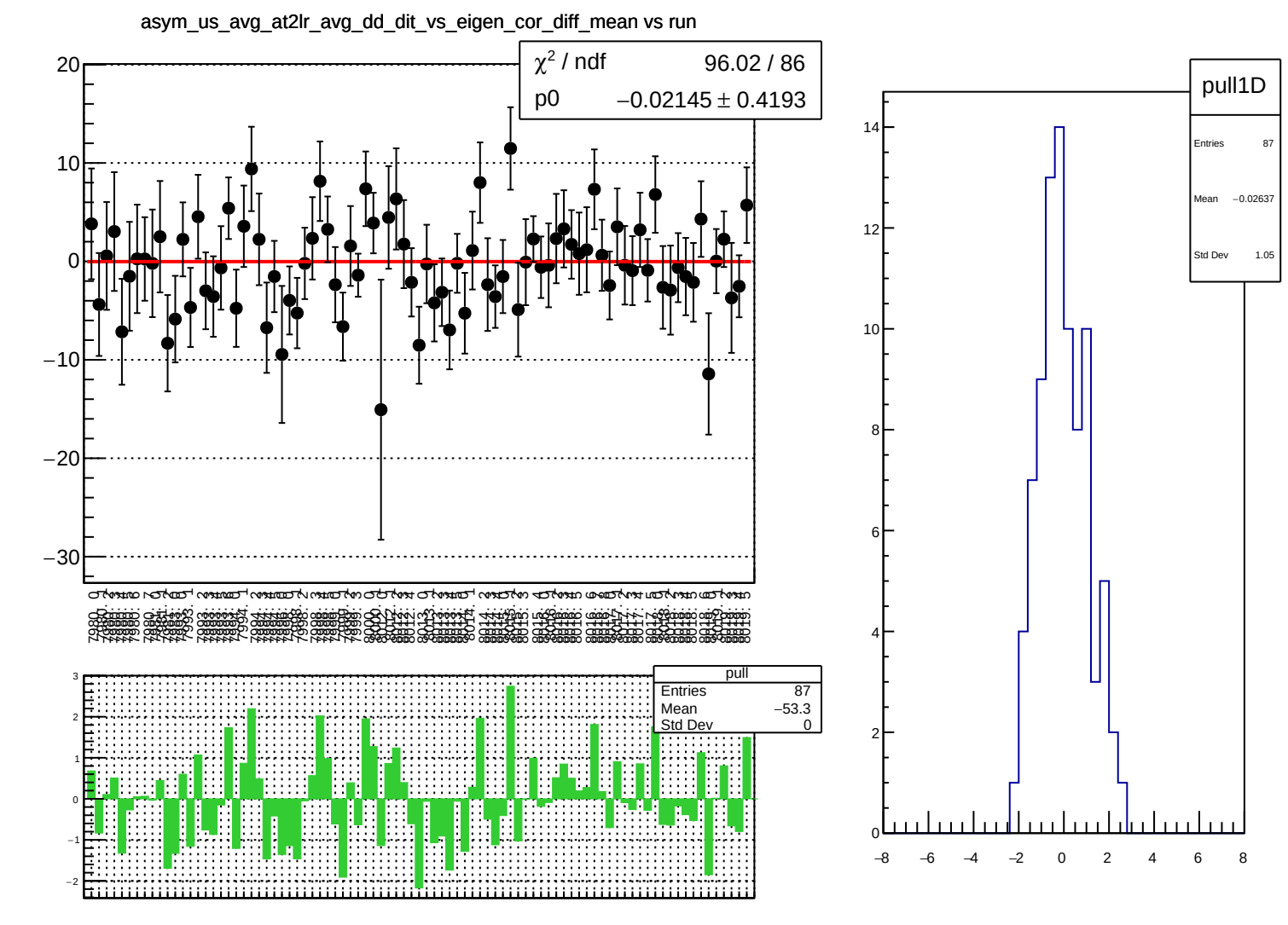

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 4924 / 86
p0 1e+04 ± 7.547
11500
11000
10500
10000
9500
9000

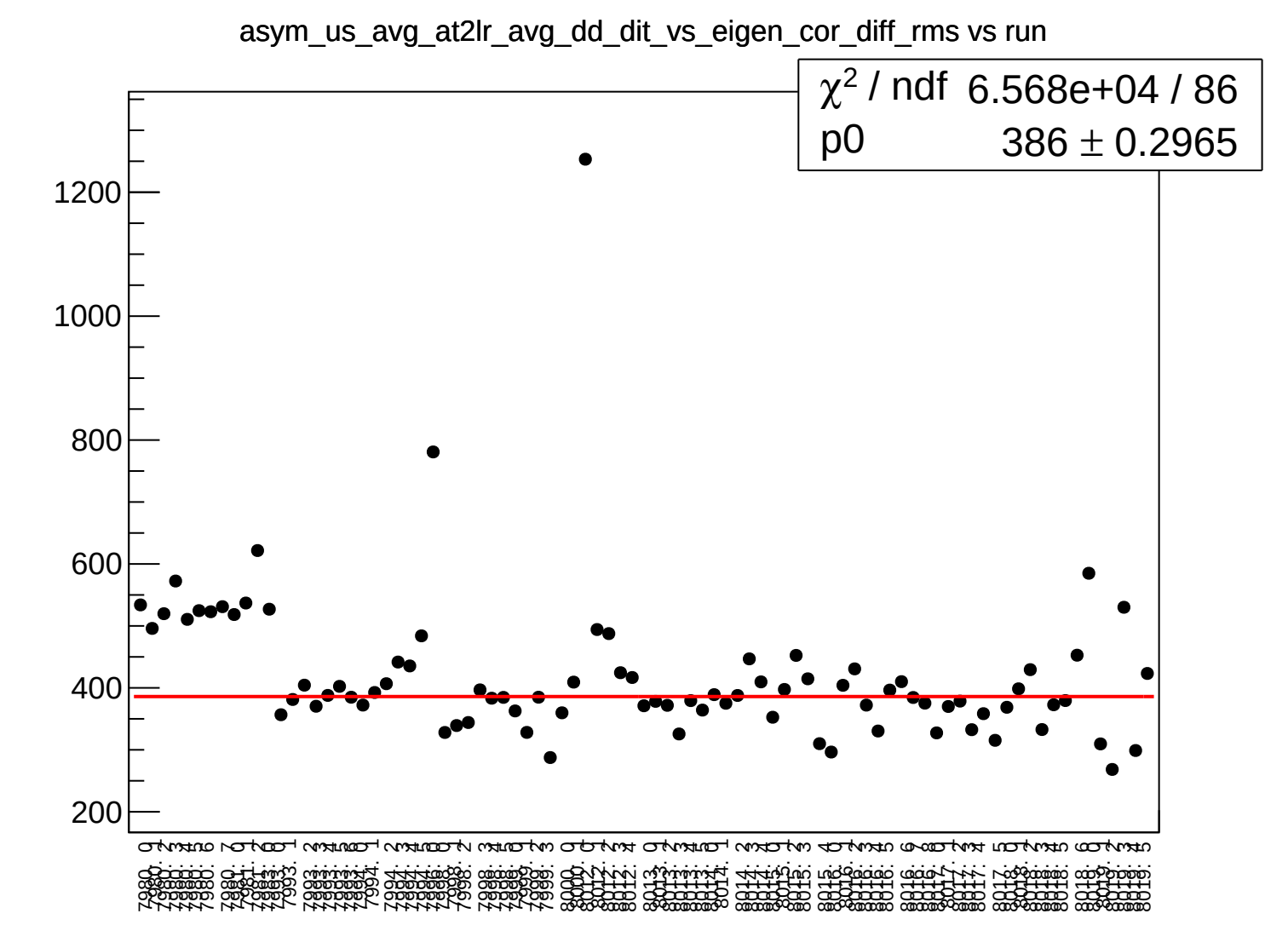

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.36 / 86
p0 4.406e−13 ± 1.739e−12
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 25.01
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.09879
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

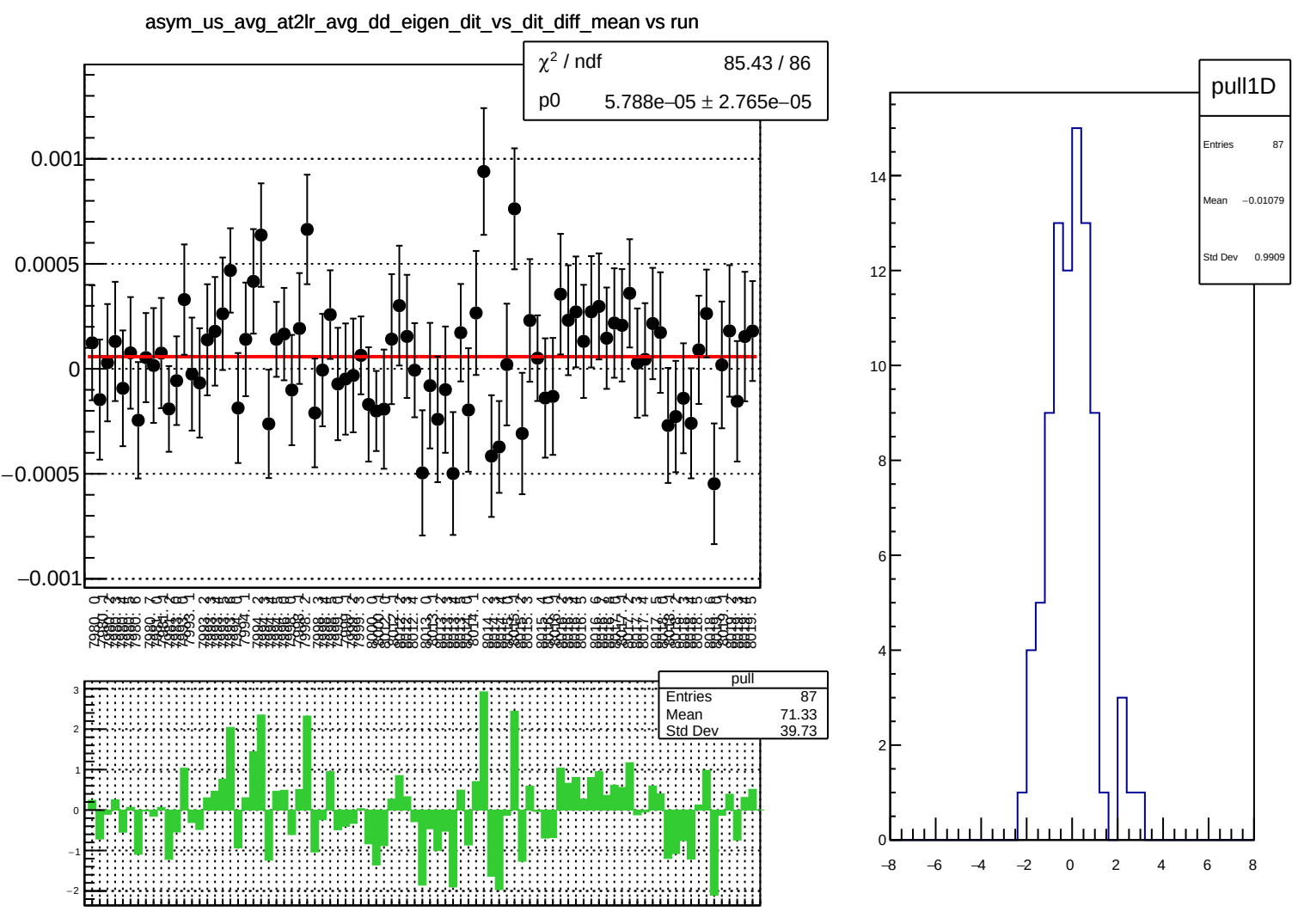

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.077e+06 / 86
p0 1.017e−09 ± 1.23e−12
1.2
1
0.8
0.6
0.4
0.2
0

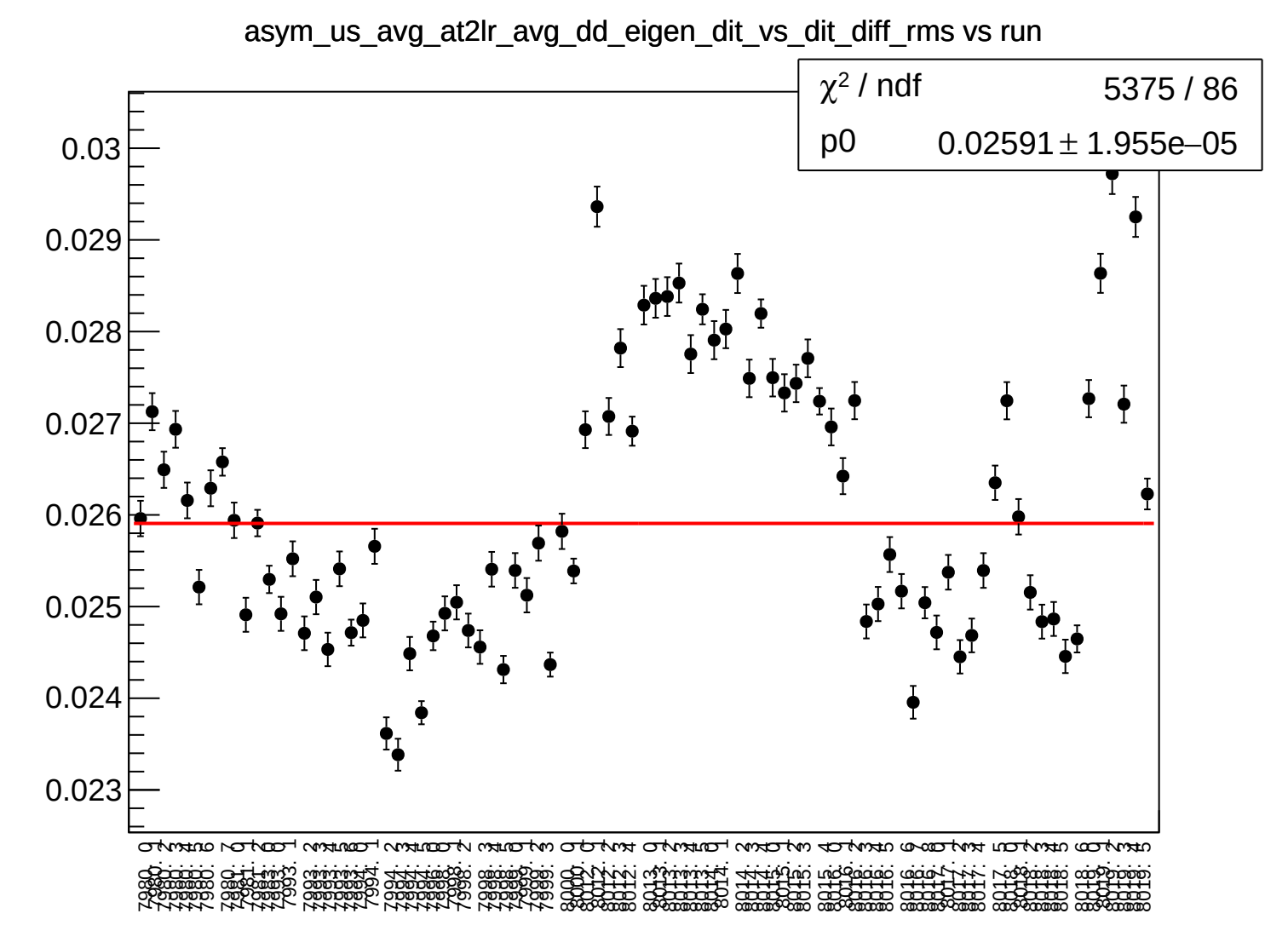

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.02 / 86
p0 −0.02145 ± 0.4193
pull
Entries 87
Mean −53.3
Std Dev 0
pull1D
Entries 87
Mean −0.02637
Std Dev 1.05

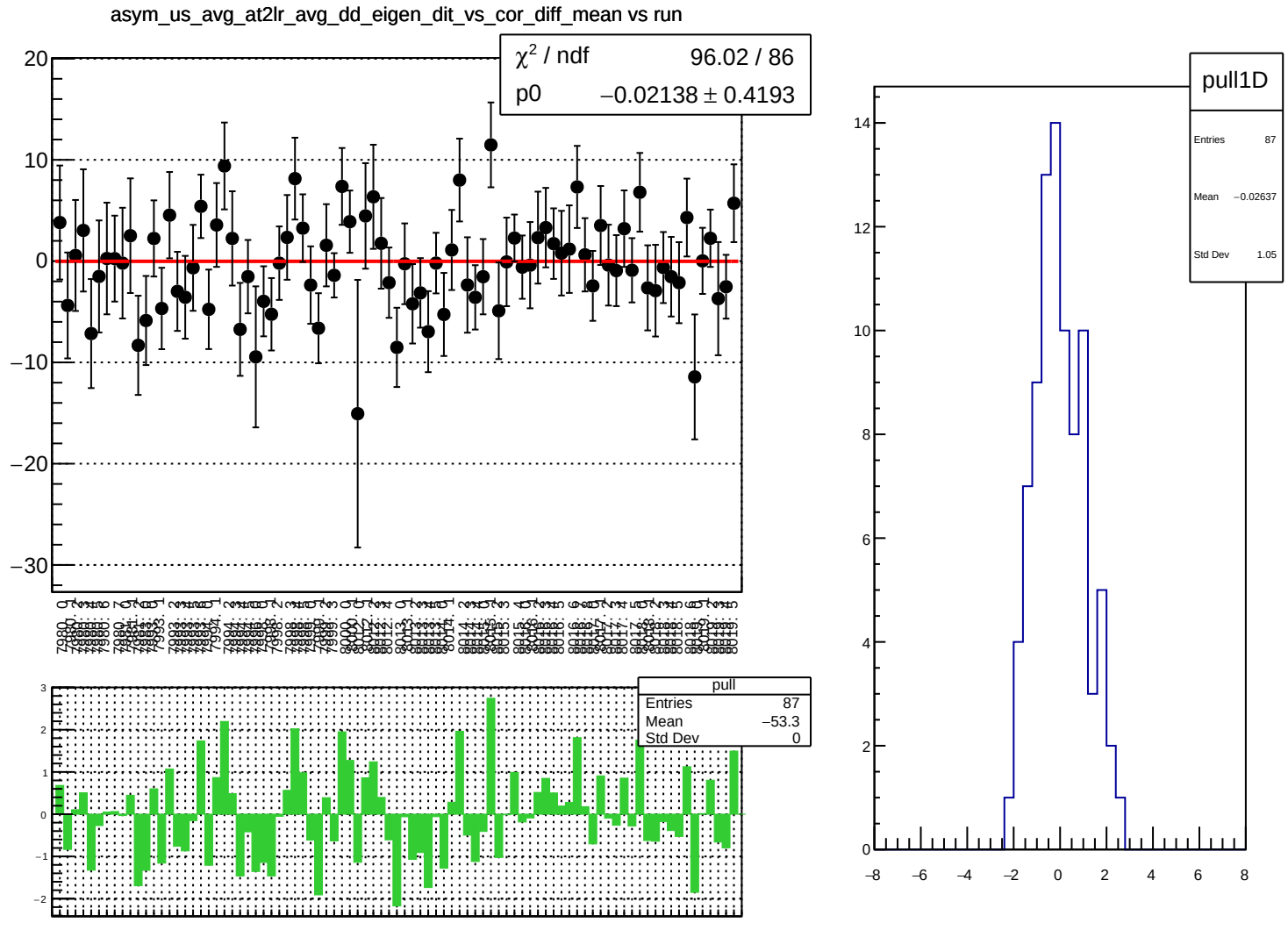

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.568e+04 / 86
p0 386 ± 0.2965
1200
1000
800
600
400
200

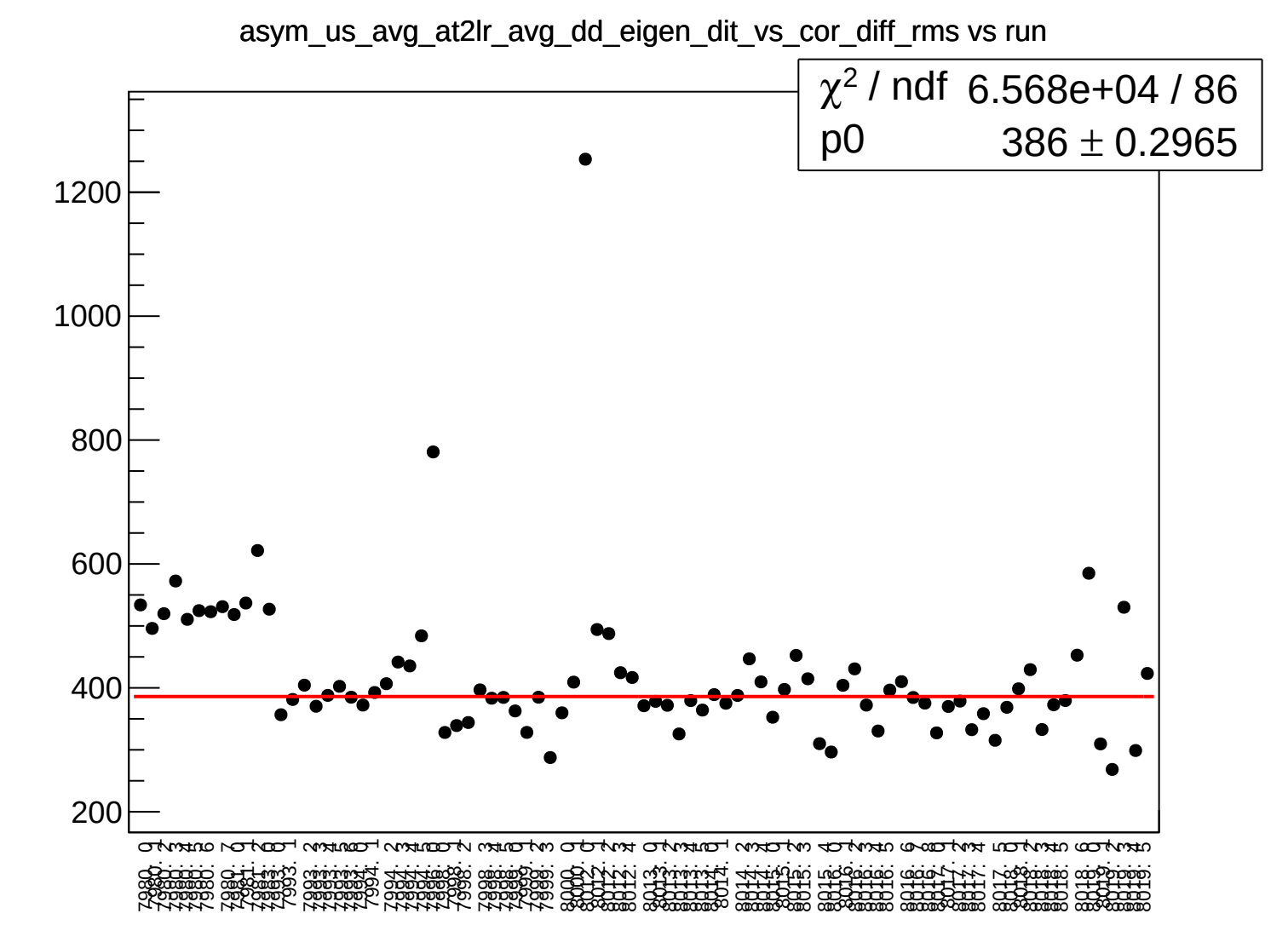

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.02 / 86
p0 −0.02145 ± 0.4193
pull
Entries 87
Mean −53.3
Std Dev 0
pull1D
Entries 87
Mean −0.02637
Std Dev 1.05

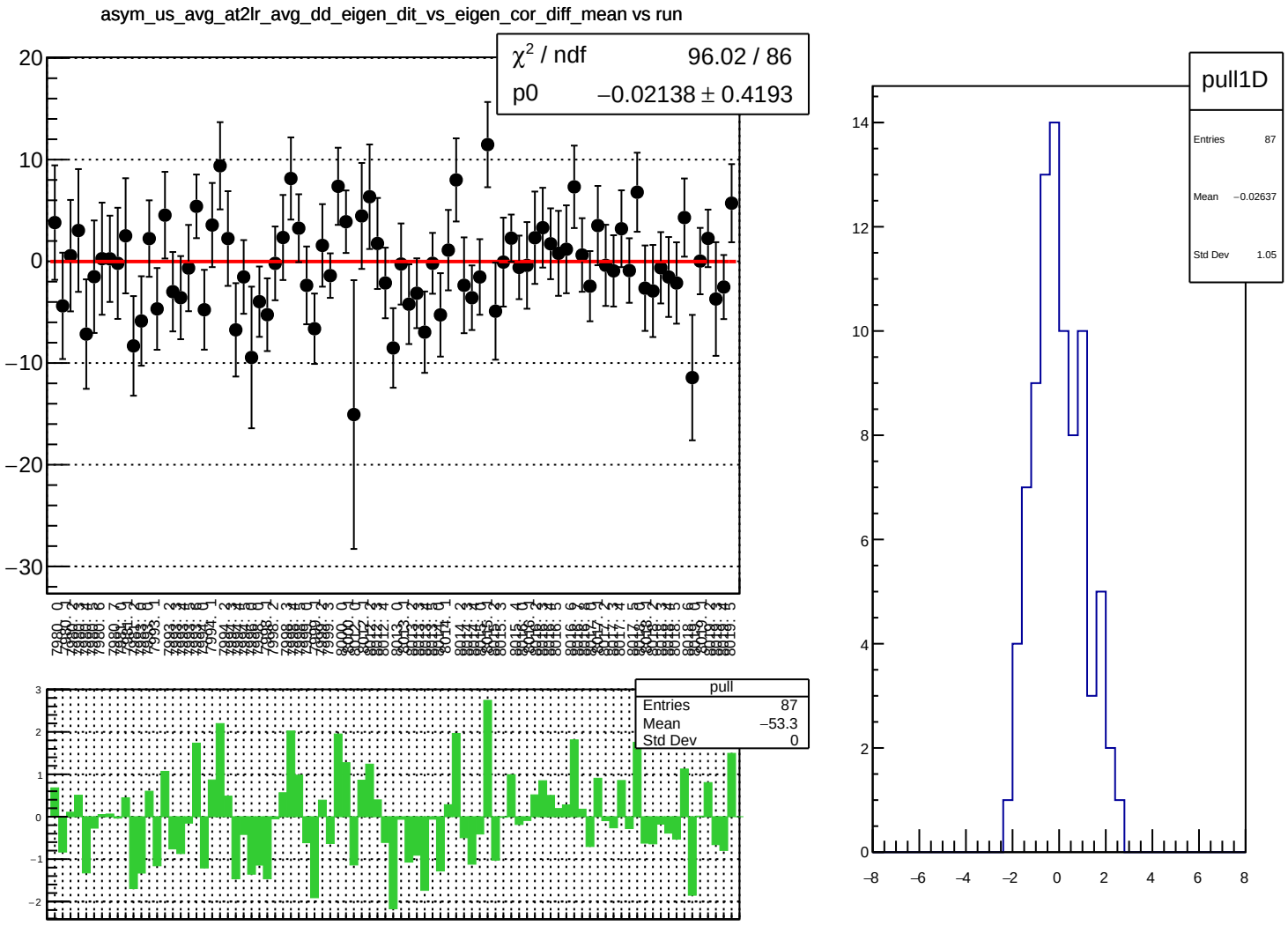

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.568e+04 / 86
p0 386 ± 0.2965
1200
1000
800
600
400
200

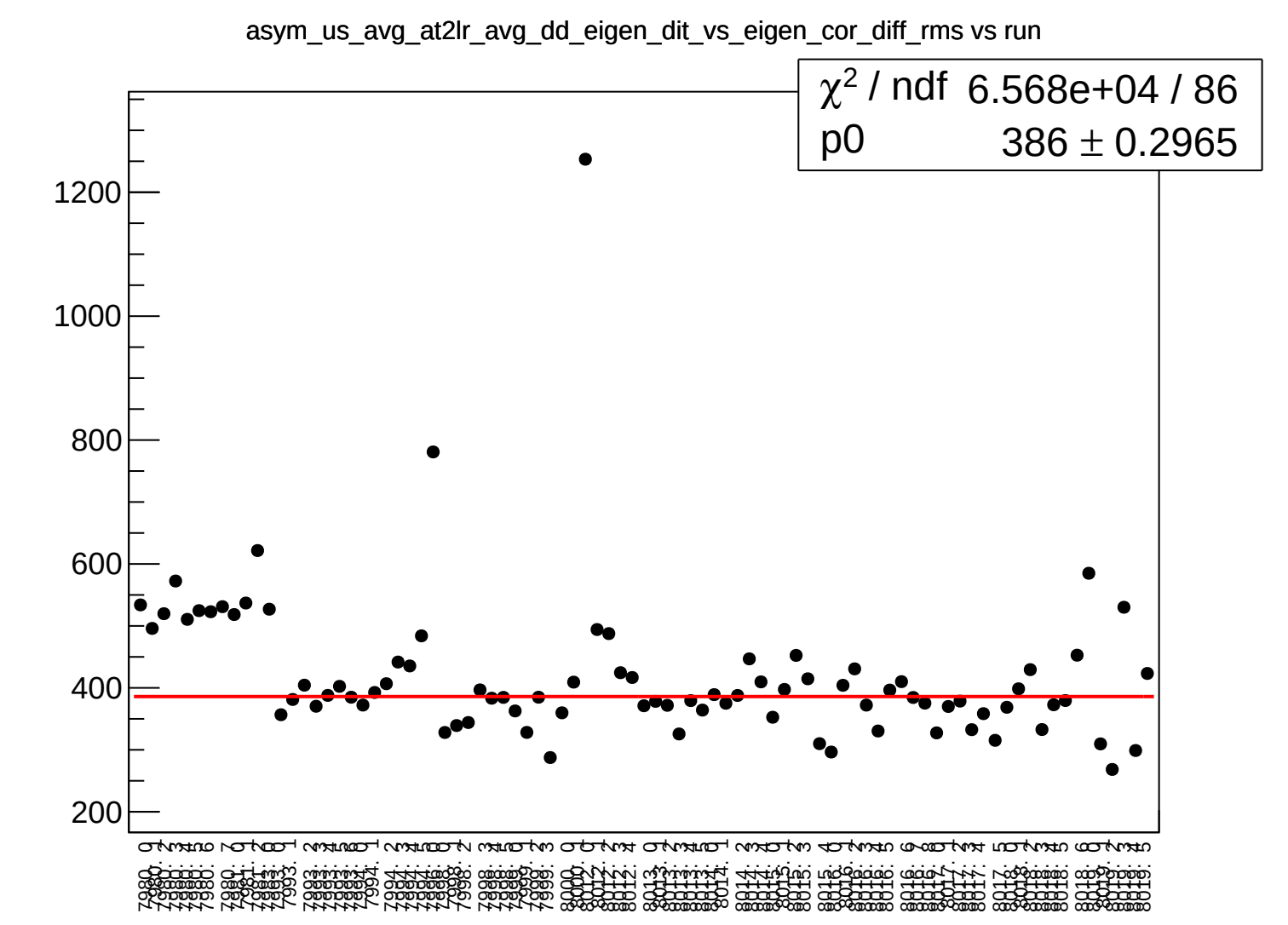

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.43 / 86
p0 5.788e−05 ± 2.765e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean 71.33
Std Dev 39.73
pull1D
Entries 87
Mean −0.01079
Std Dev 0.9909

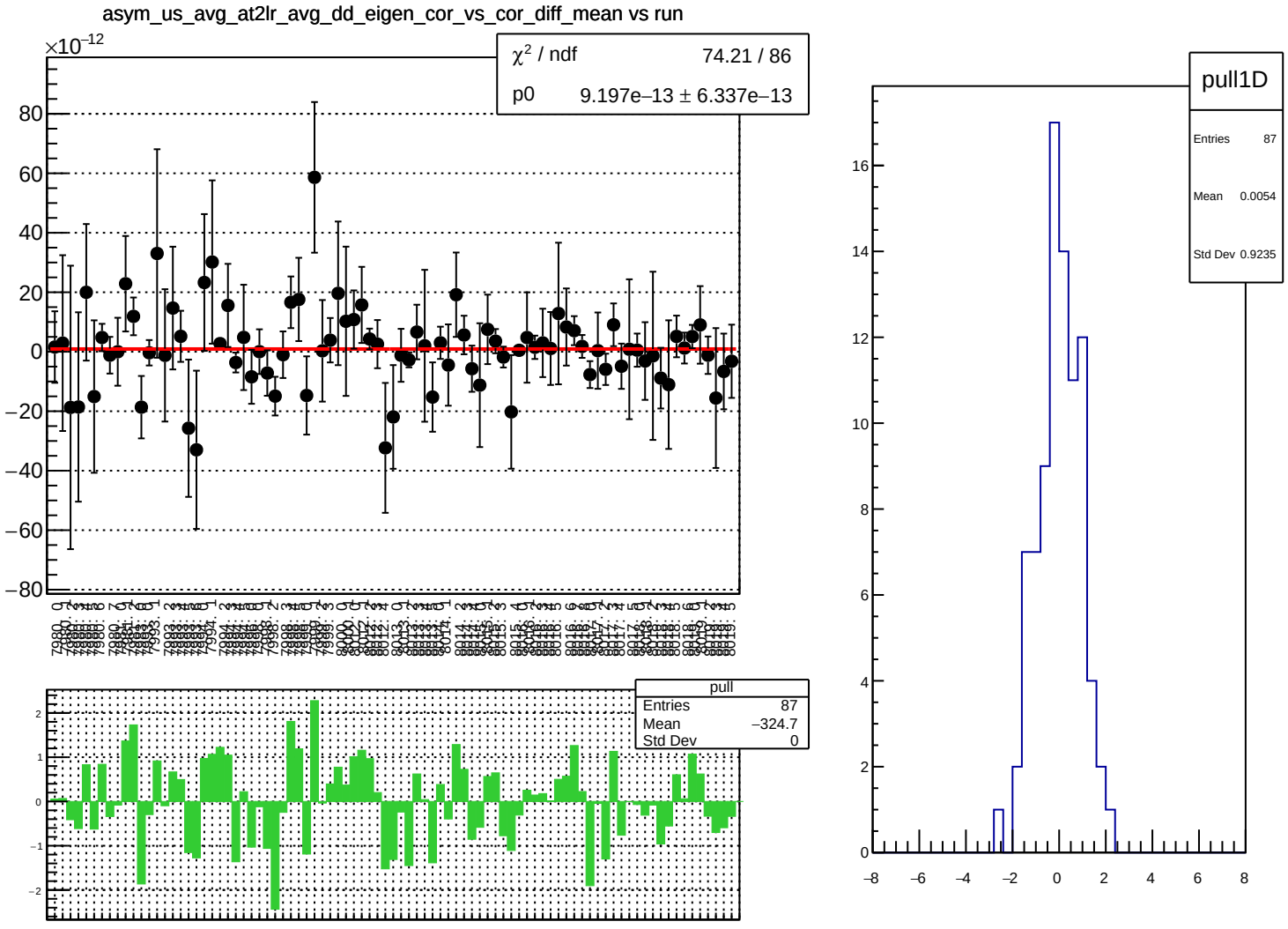

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5375 / 86
p0 0.02591 ± 1.955e−05
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023

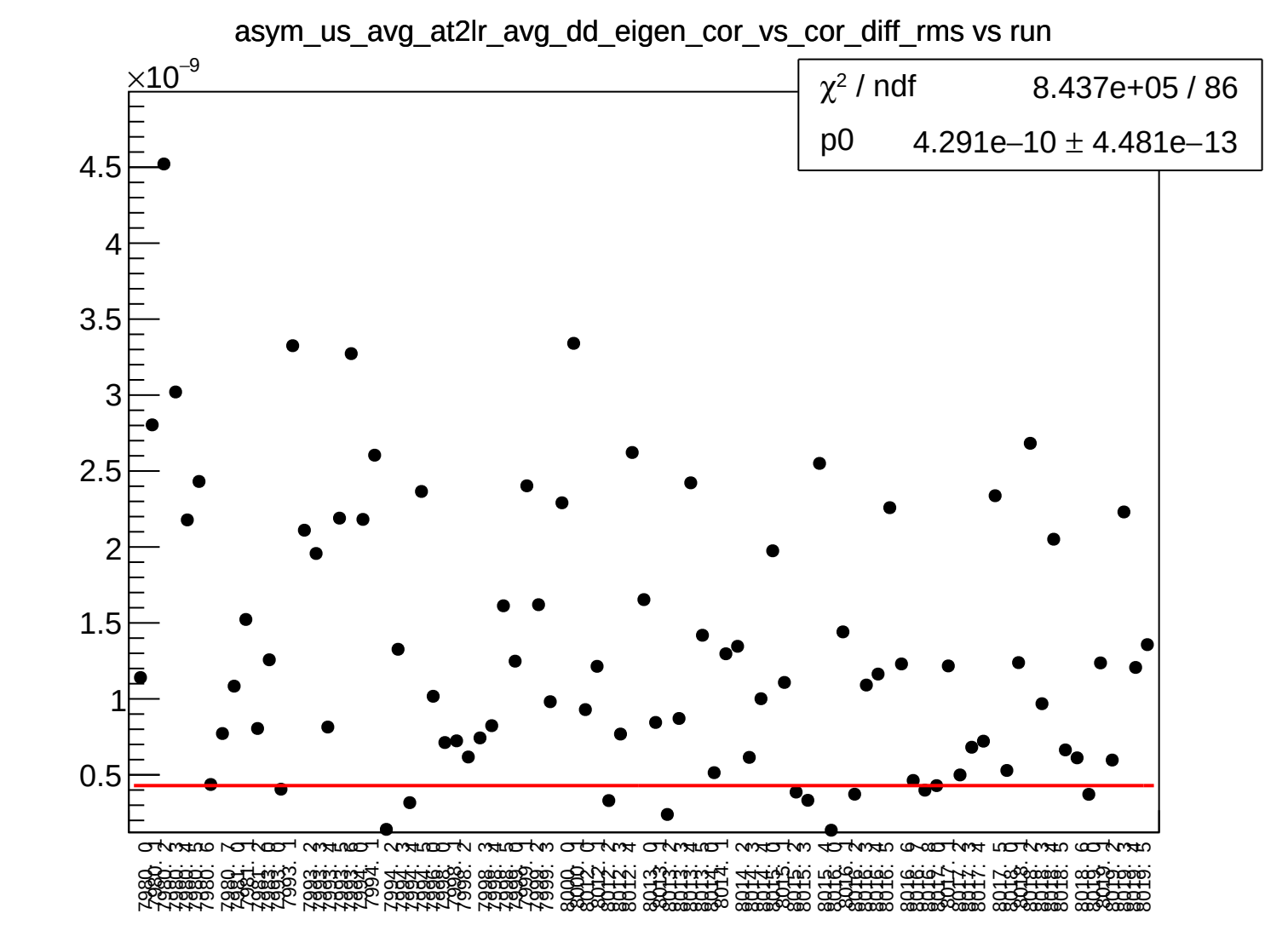

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.02 / 86
p0 −0.02138 ± 0.4193
pull
Entries 87
Mean −53.3
Std Dev 0
pull1D
Entries 87
Mean −0.02637
Std Dev 1.05

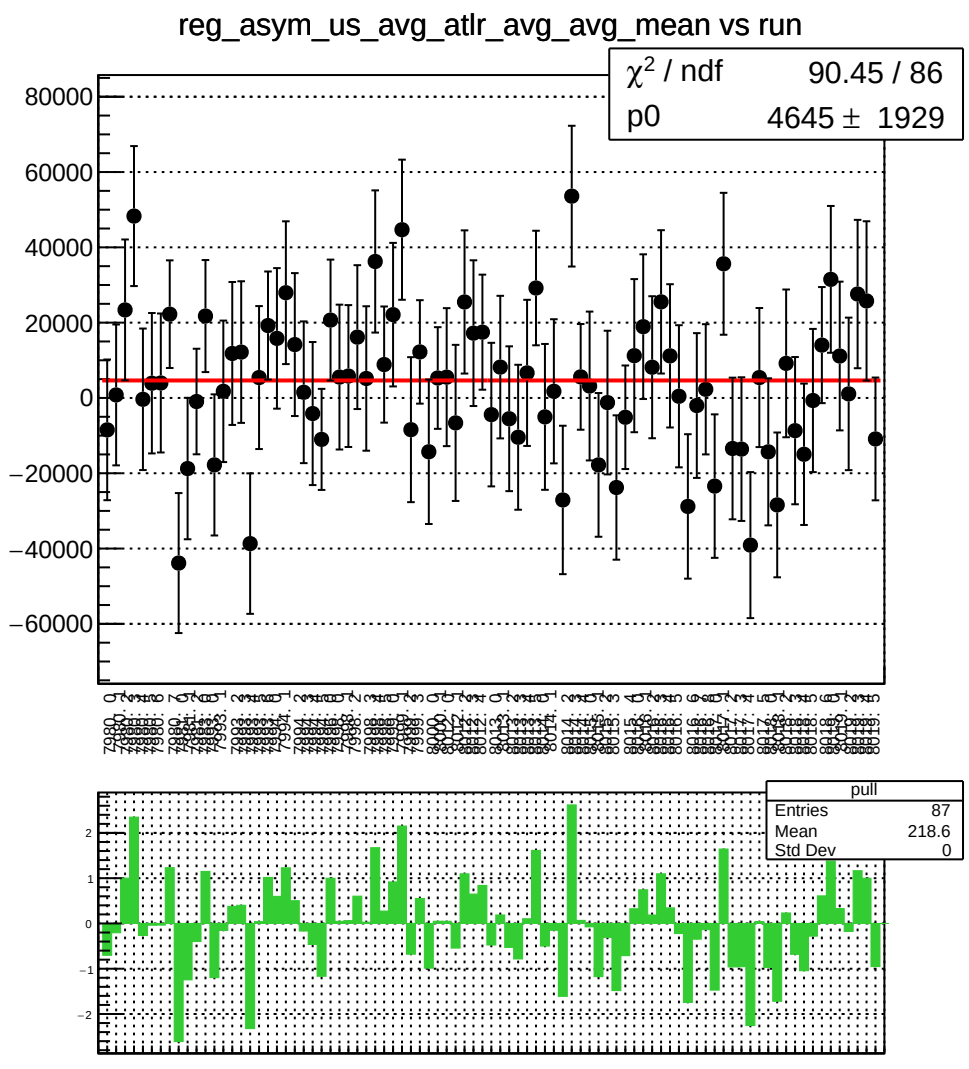

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.568e+04 / 86
p0 386 ± 0.2965
1200
1000
800
600
400
200

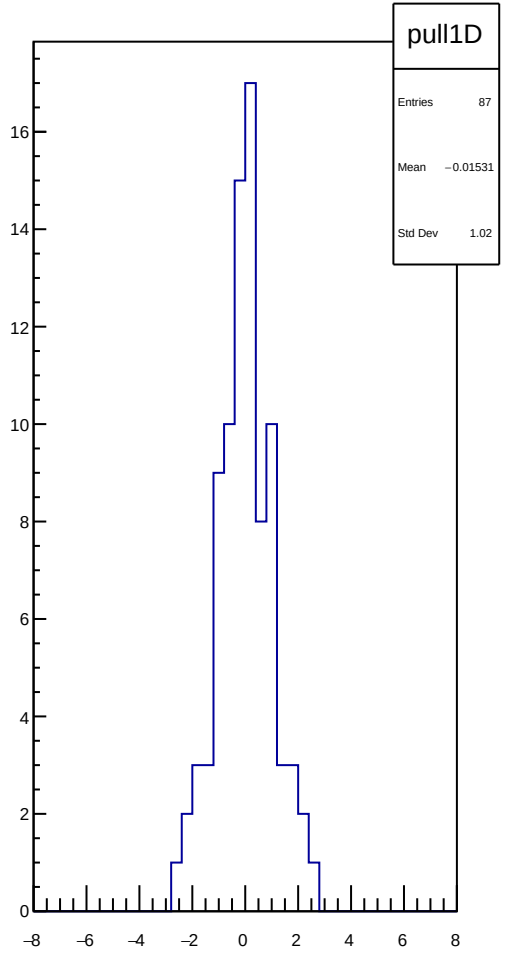

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.02 / 86
p0 −0.02138 ± 0.4193
pull
Entries 87
Mean −53.3
Std Dev 0
pull1D
Entries 87
Mean −0.02637
Std Dev 1.05

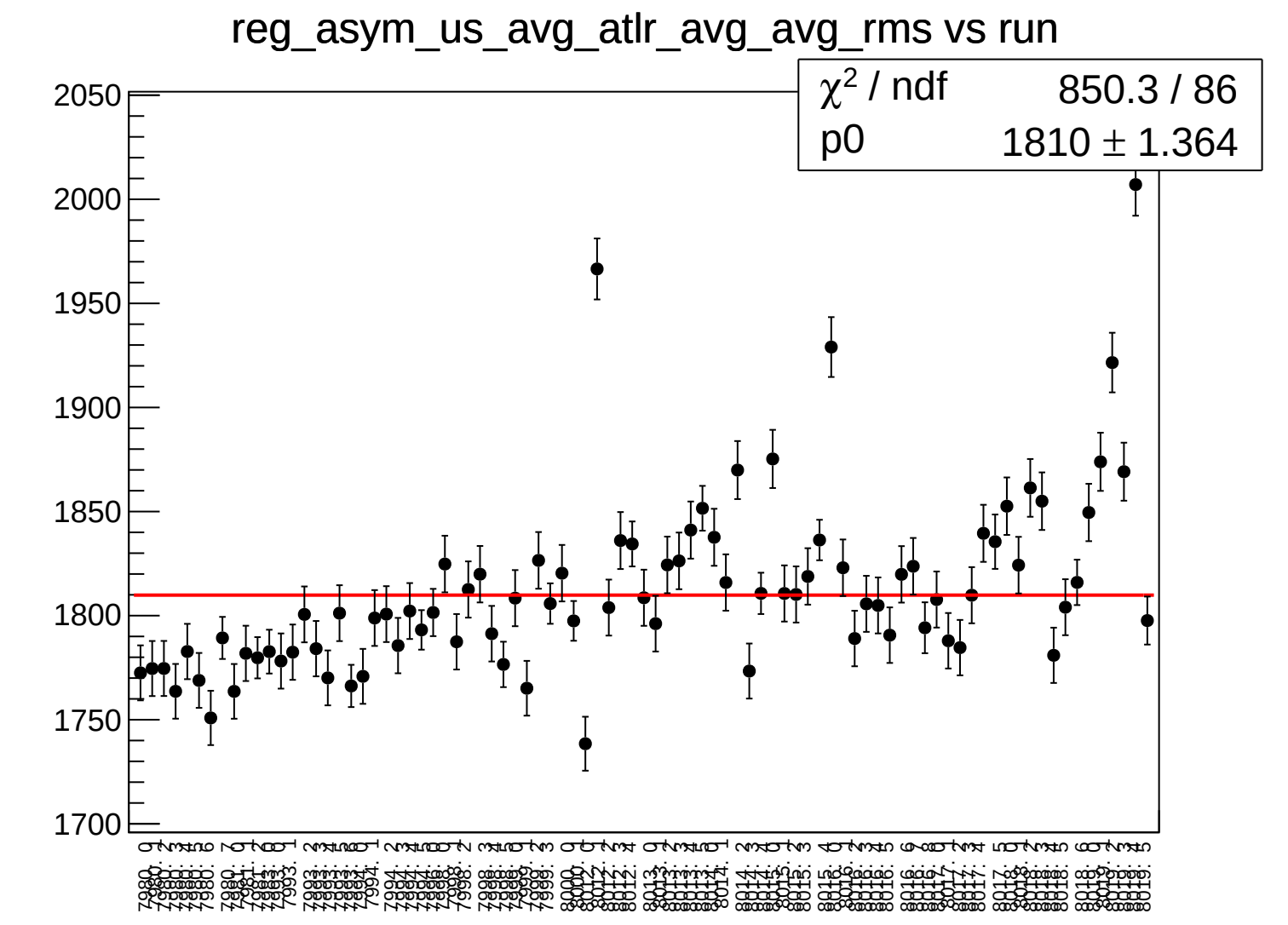

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.568e+04 / 86
p0 386 ± 0.2965
1200
1000
800
600
400
200

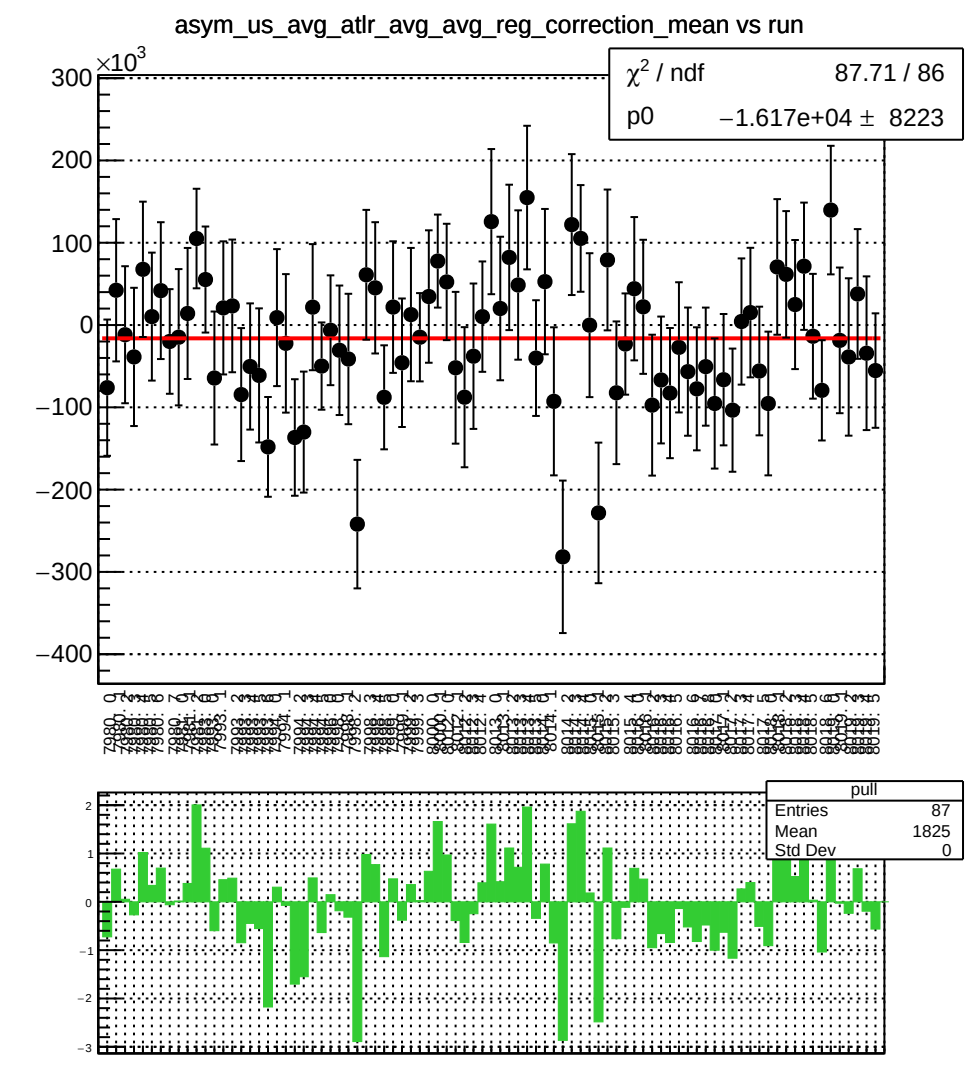

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.21 / 86
p0 9.197e−13 ± 6.337e−13
pull
Entries 87
Mean −324.7
Std Dev 0
pull1D
Entries 87
Mean 0.0054
Std Dev 0.9235

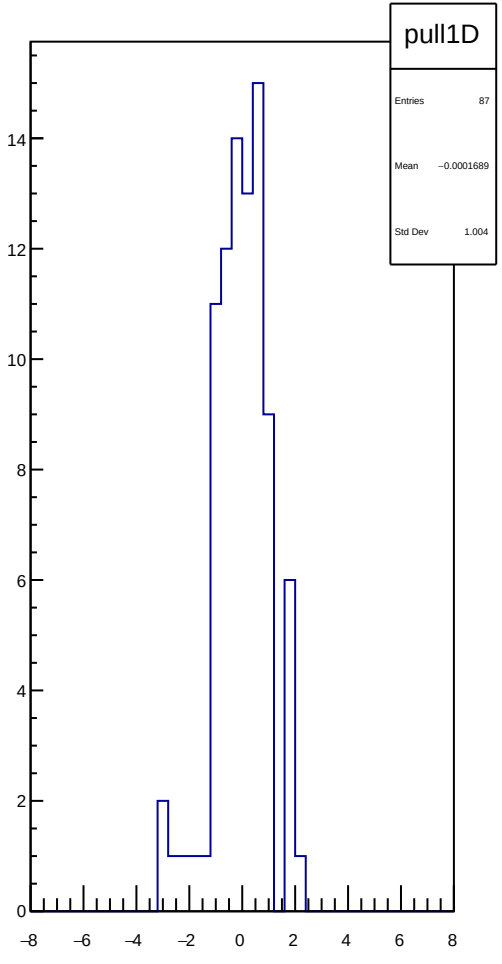

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.437e+05 / 86
p0 4.291e−10 ± 4.481e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

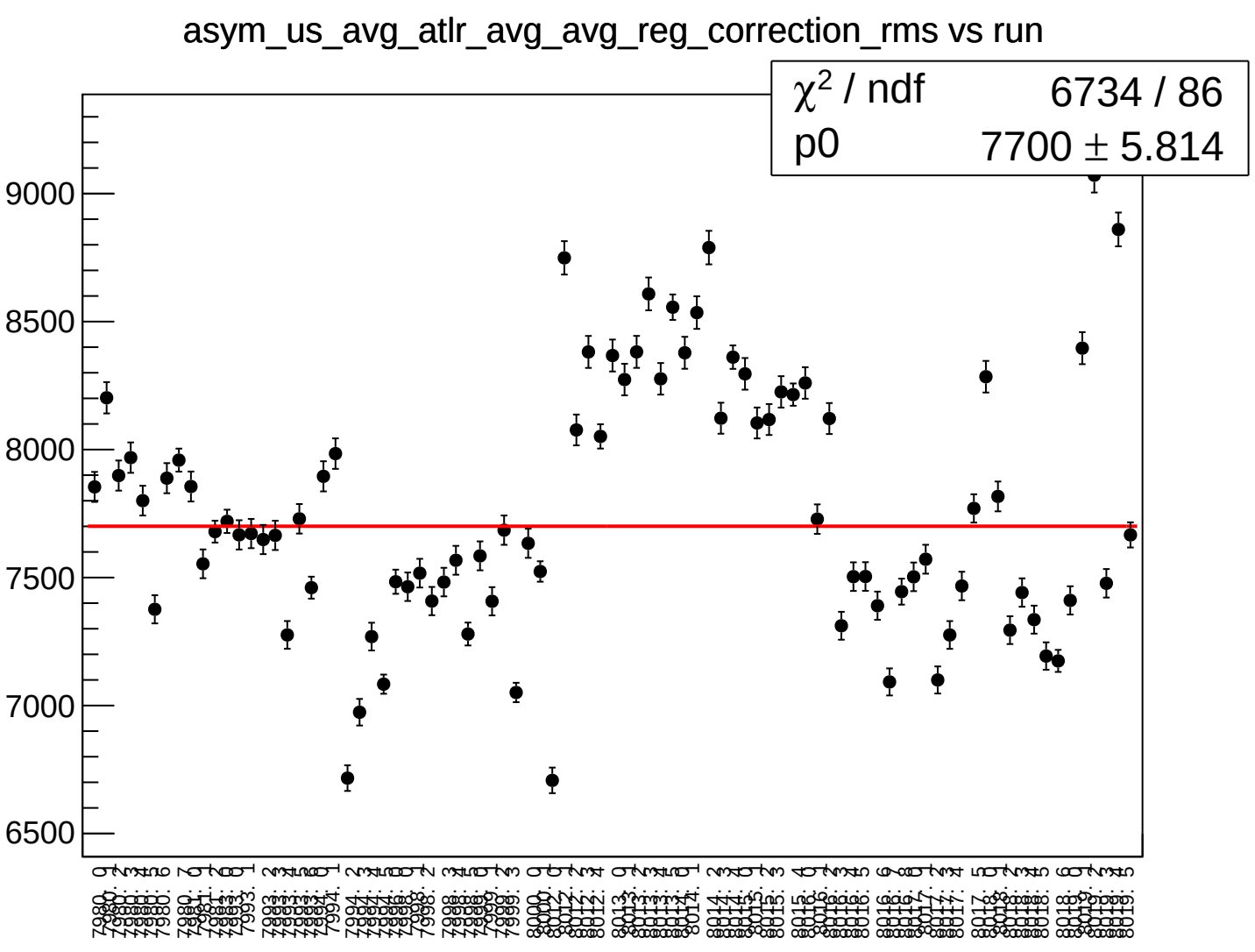

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 90.45 / 86
p0 4645 ± 1929
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 218.6
Std Dev 0
2
1
0
−1
−2

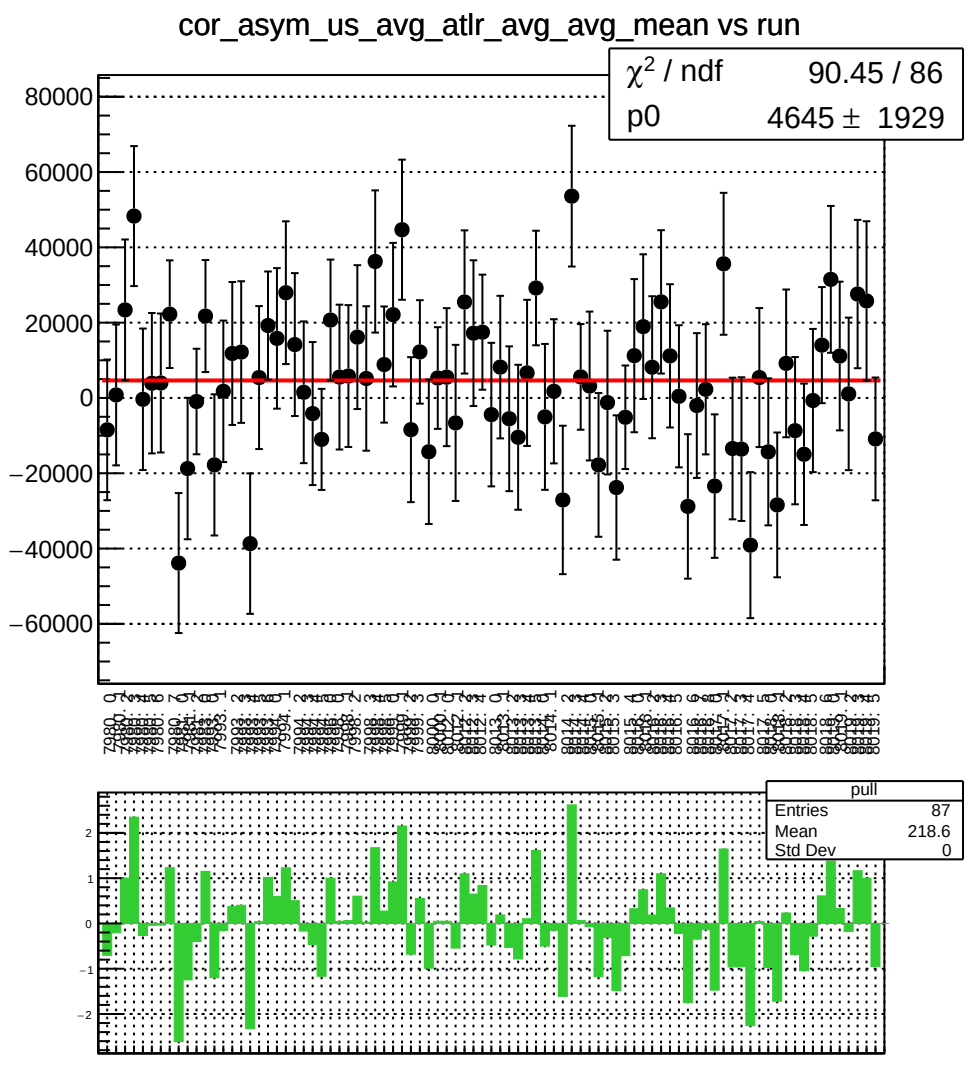

pull1D
Entries 87
Mean −0.01531
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

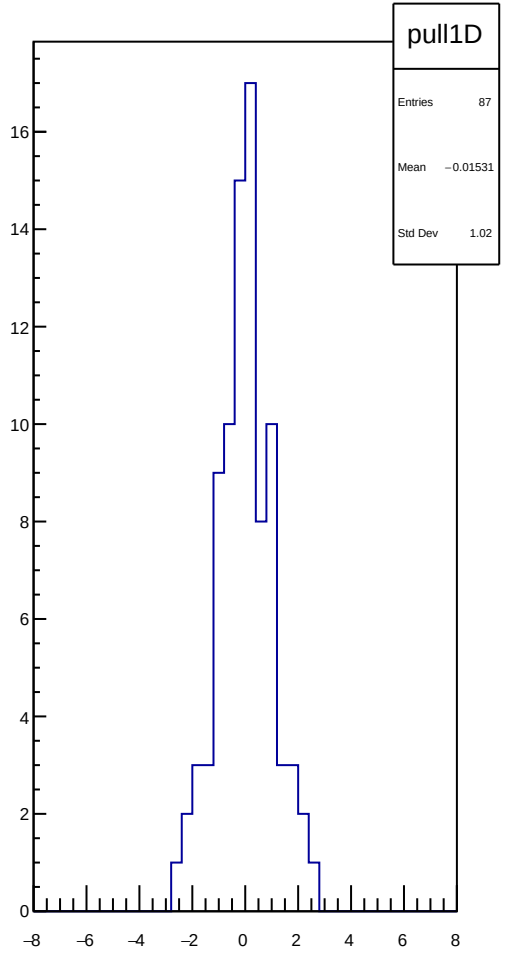

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 850.3 / 86
p0 1810 ± 1.364
2050
2000
1950
1900
1850
1800
1750
1700

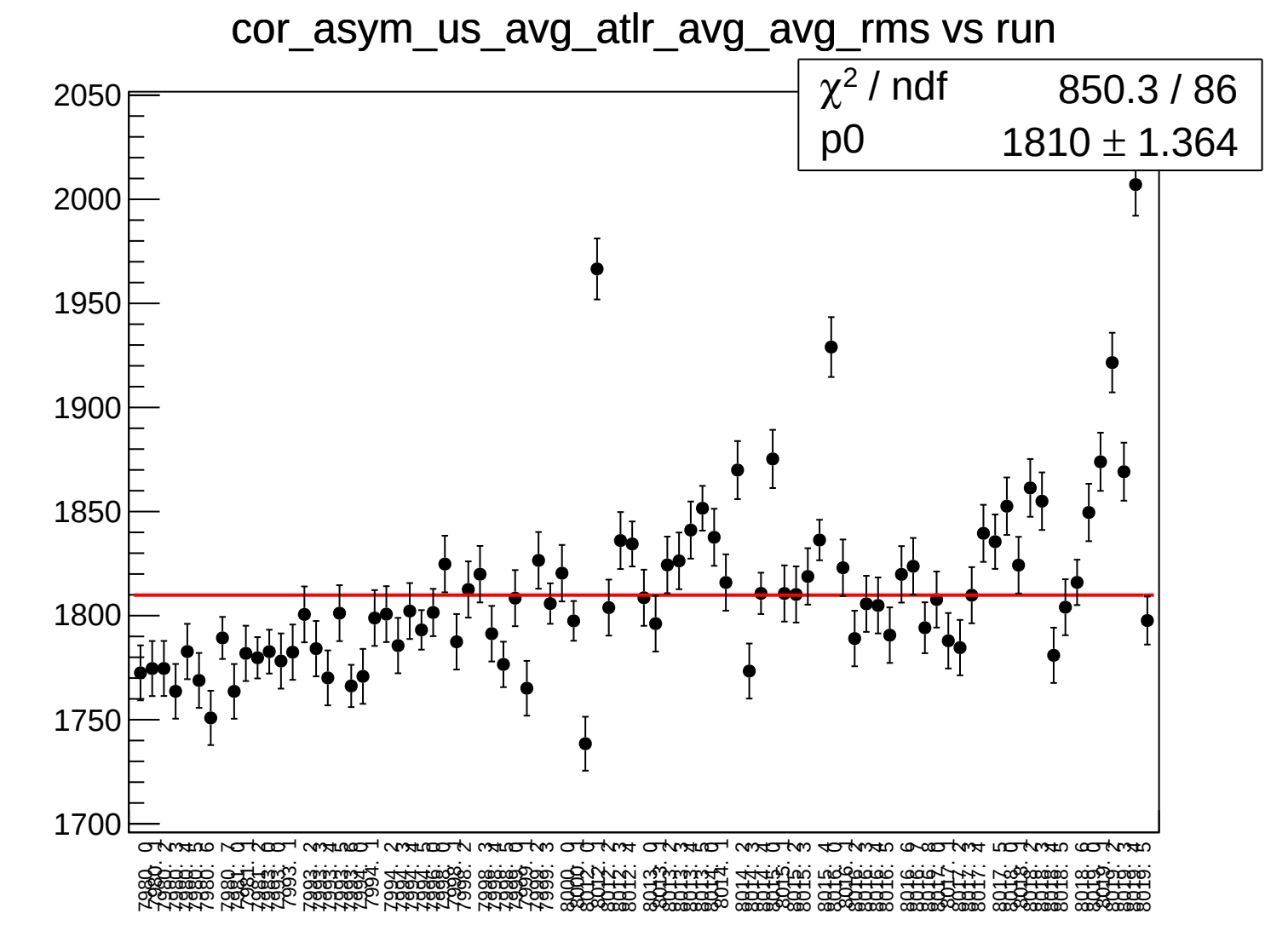

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 87.71 / 86
p0 −1.617e+04 ± 8223
pull
Entries 87
Mean 1825
Std Dev 0

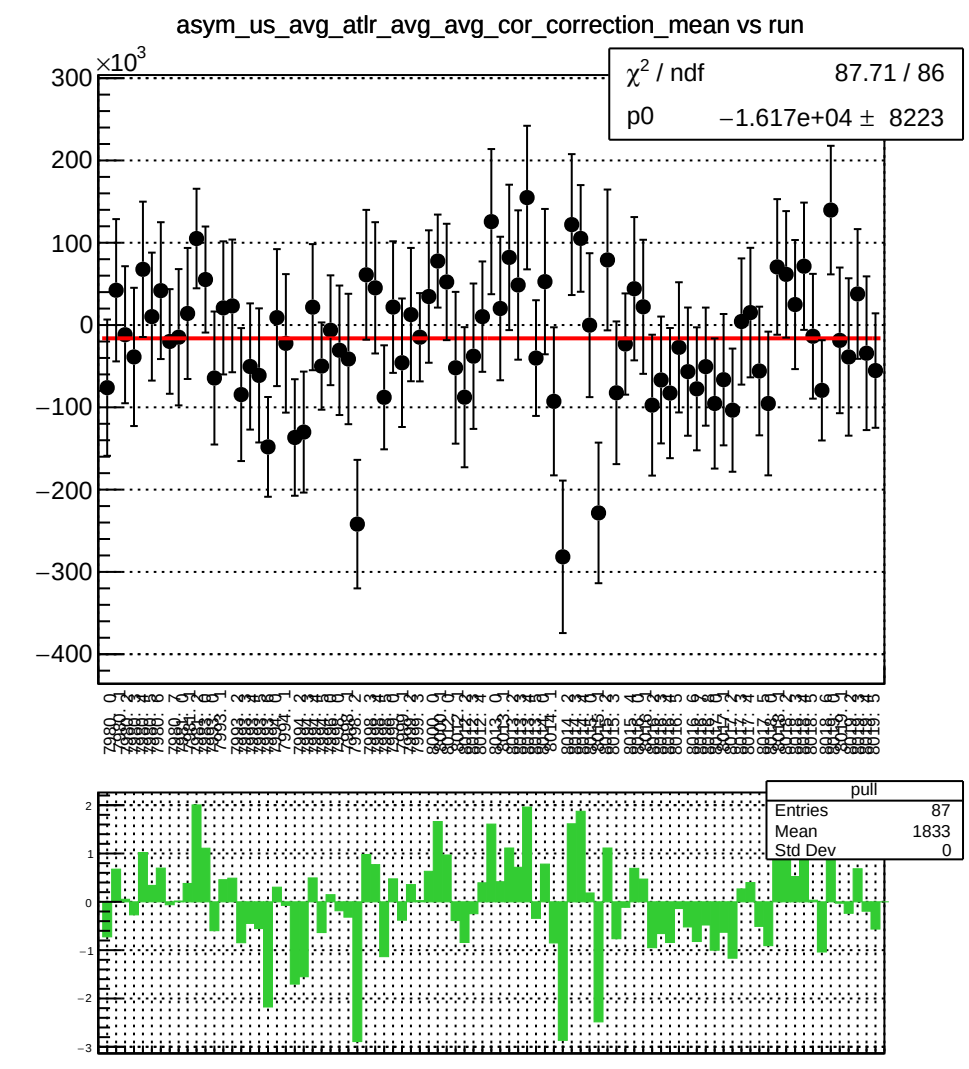

pull1D
Entries 87
Mean −0.0001689
Std Dev 1.004

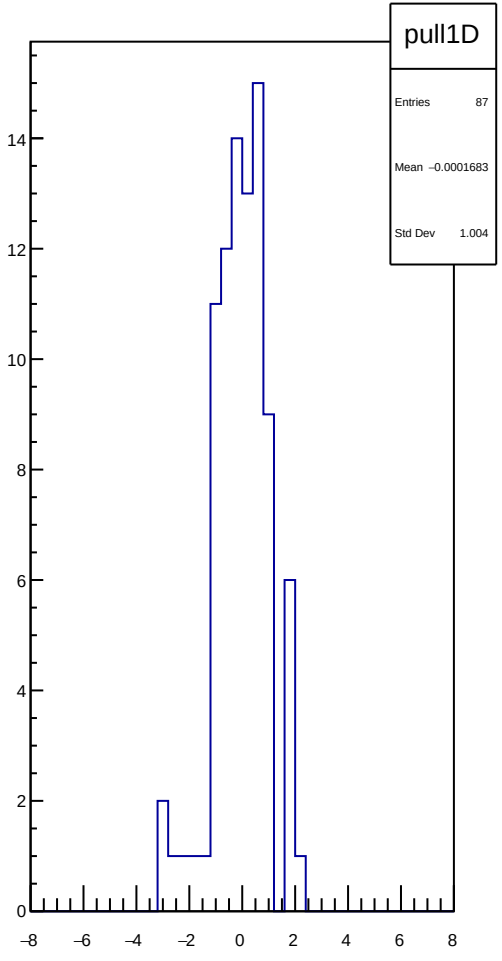

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 6734 / 86
p0 7700 ± 5.814
9000
8500
8000
7500
7000
6500

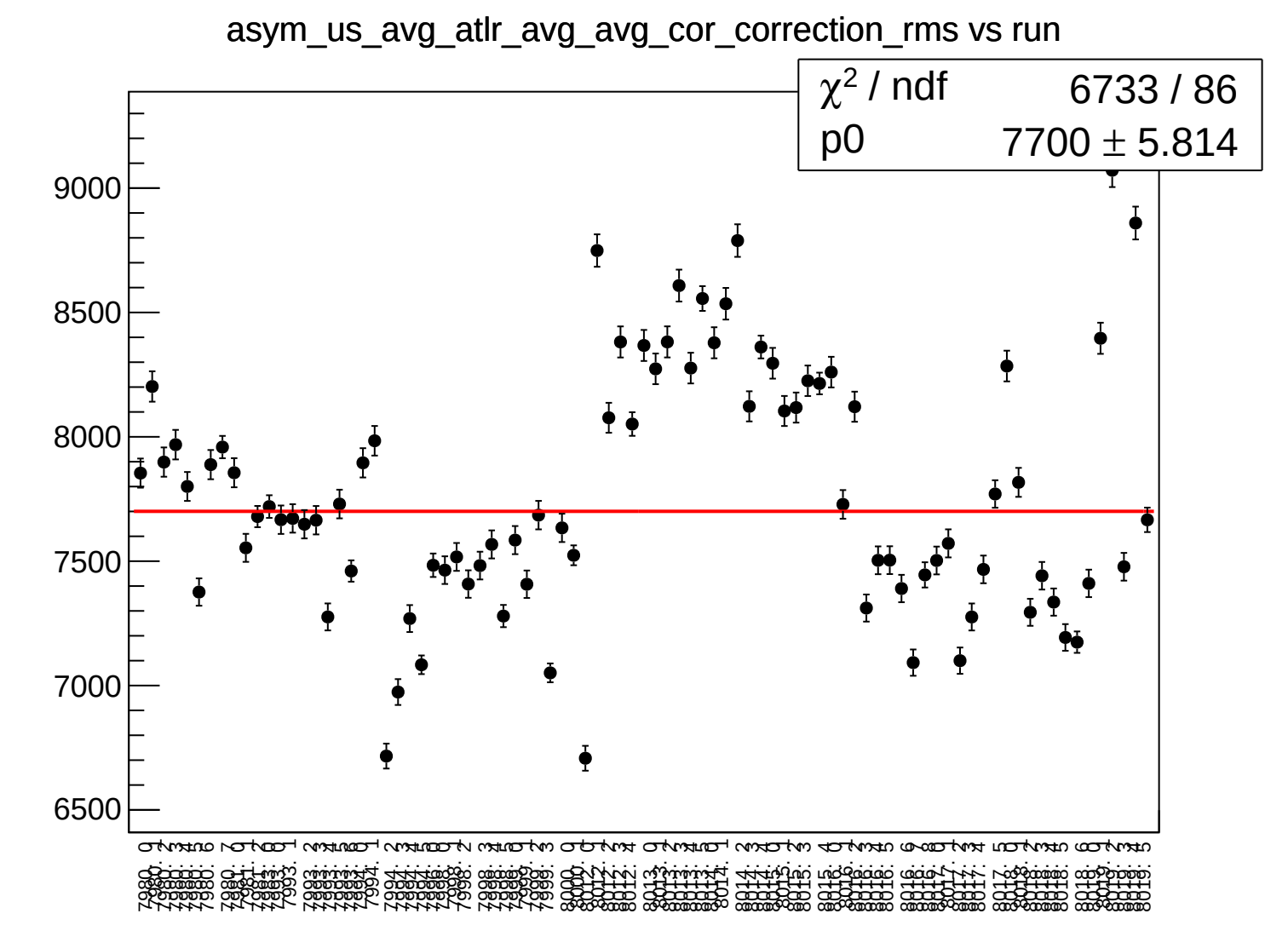

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 90.45 / 86
p0 4645 ± 1929
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 218.6
Std Dev 0
2
1
0
−1
−2

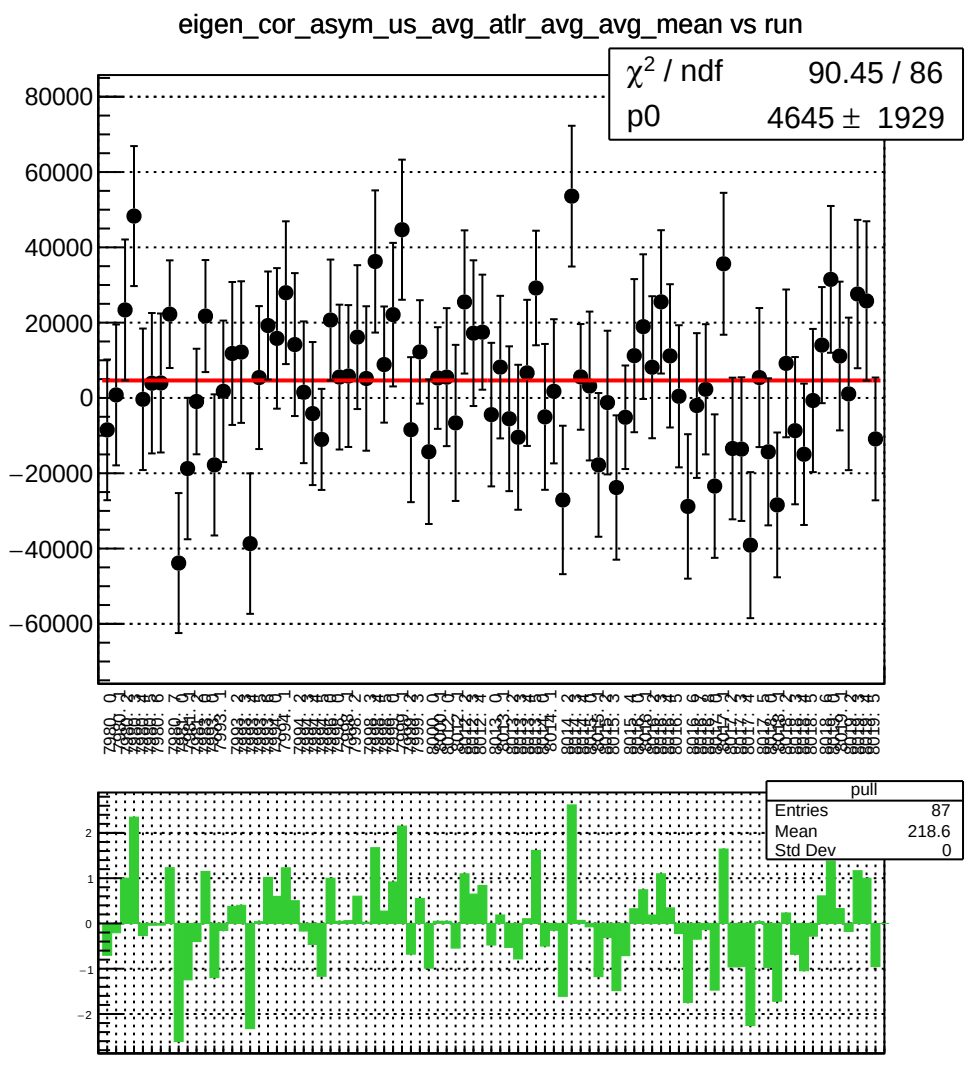

pull1D
Entries 87
Mean −0.01531
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

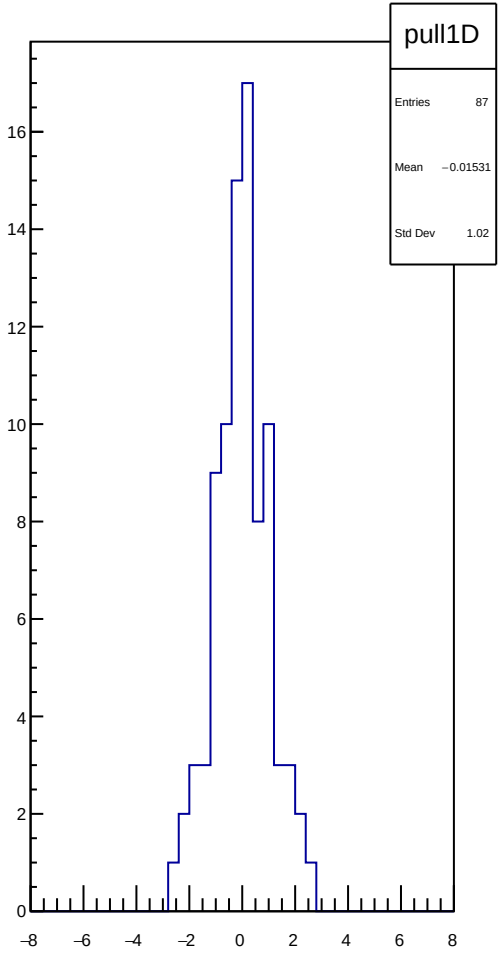

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 850.3 / 86
p0 1810 ± 1.364
2050
2000
1950
1900
1850
1800
1750
1700

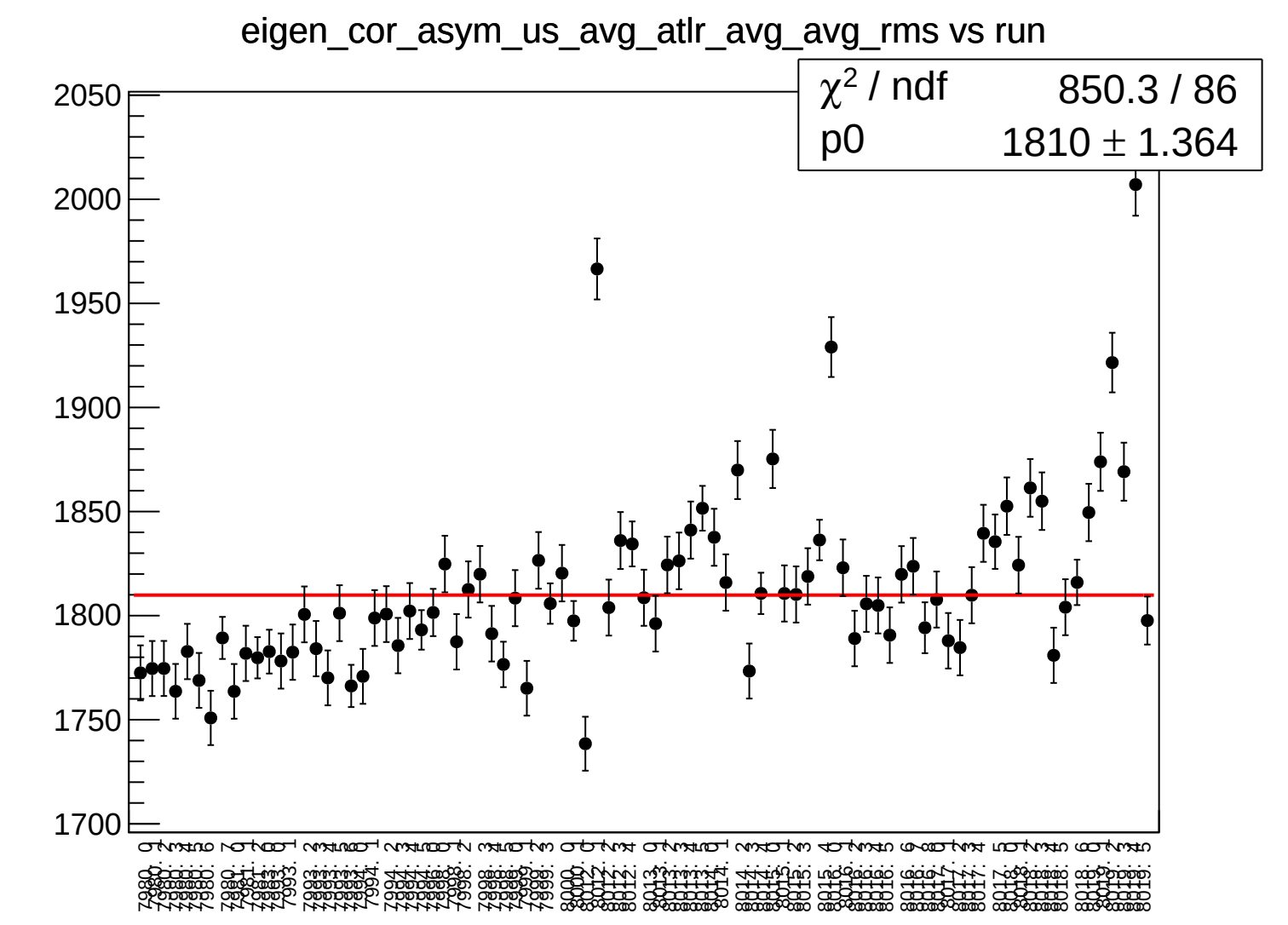

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 87.71 / 86
p0 −1.617e+04 ± 8223
pull
Entries 87
Mean 1833
Std Dev 0

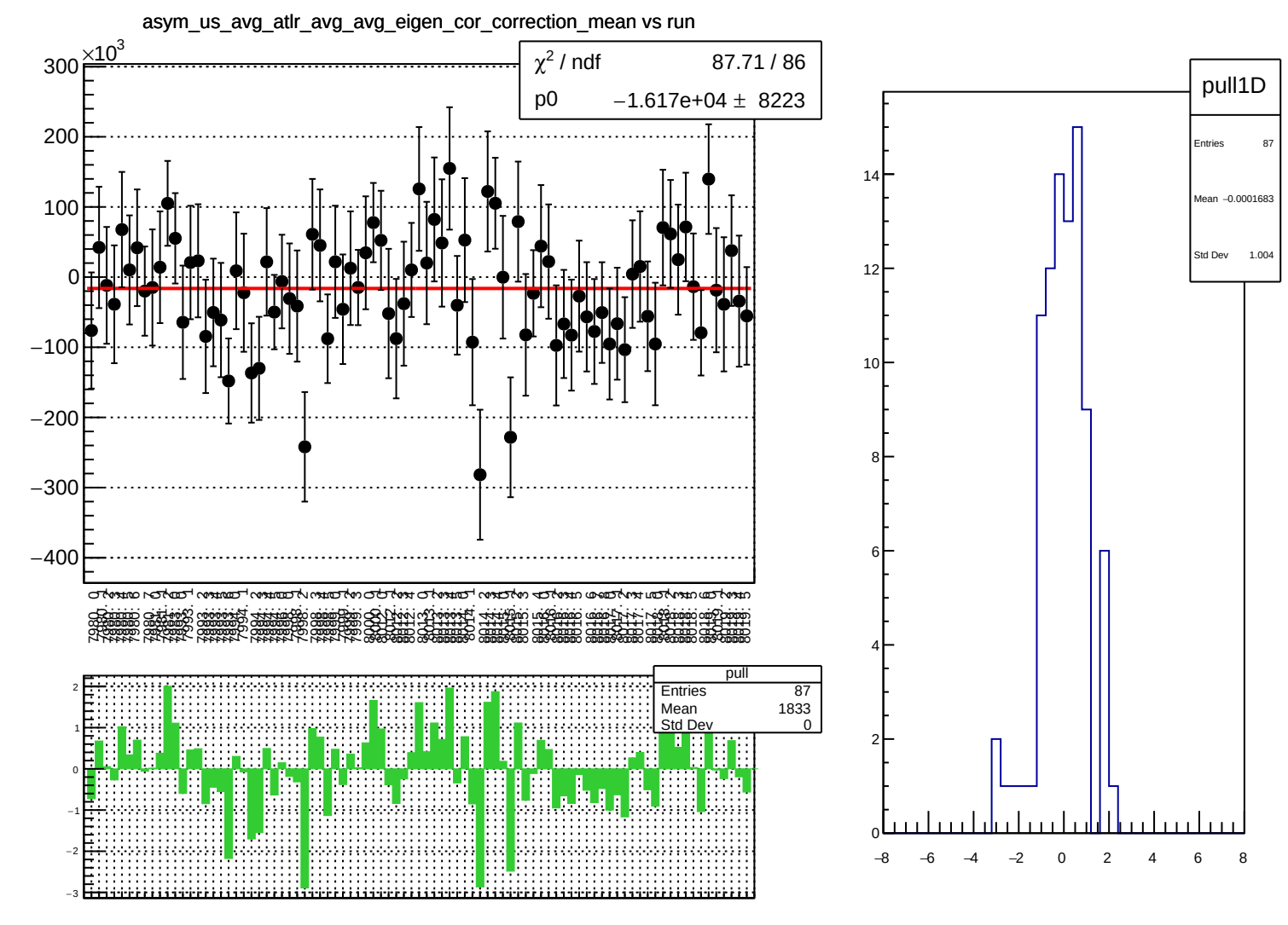

pull1D
Entries 87
Mean −0.0001683
Std Dev 1.004

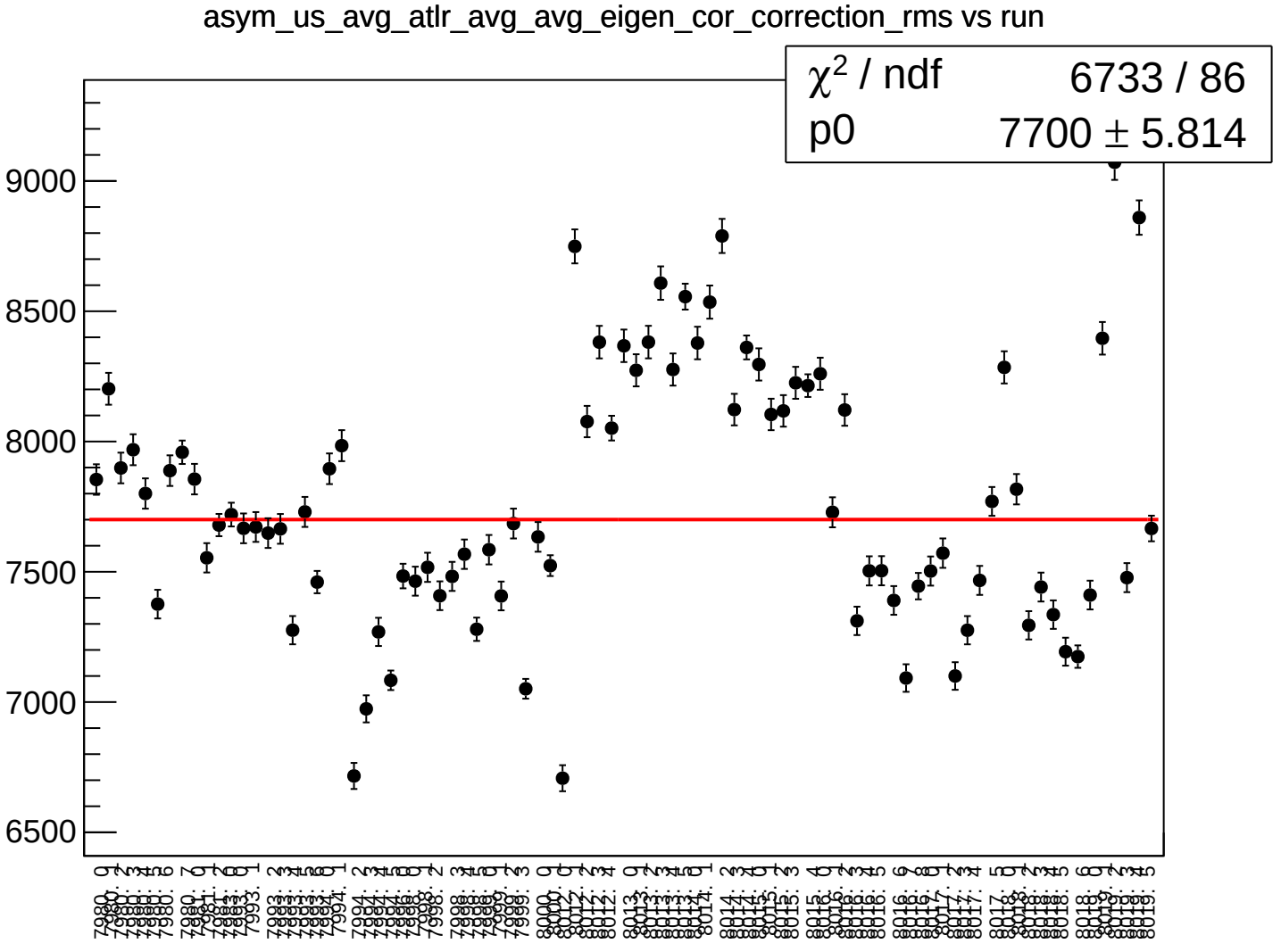

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 6733 / 86
p0 7700 ± 5.814
9000
8500
8000
7500
7000
6500

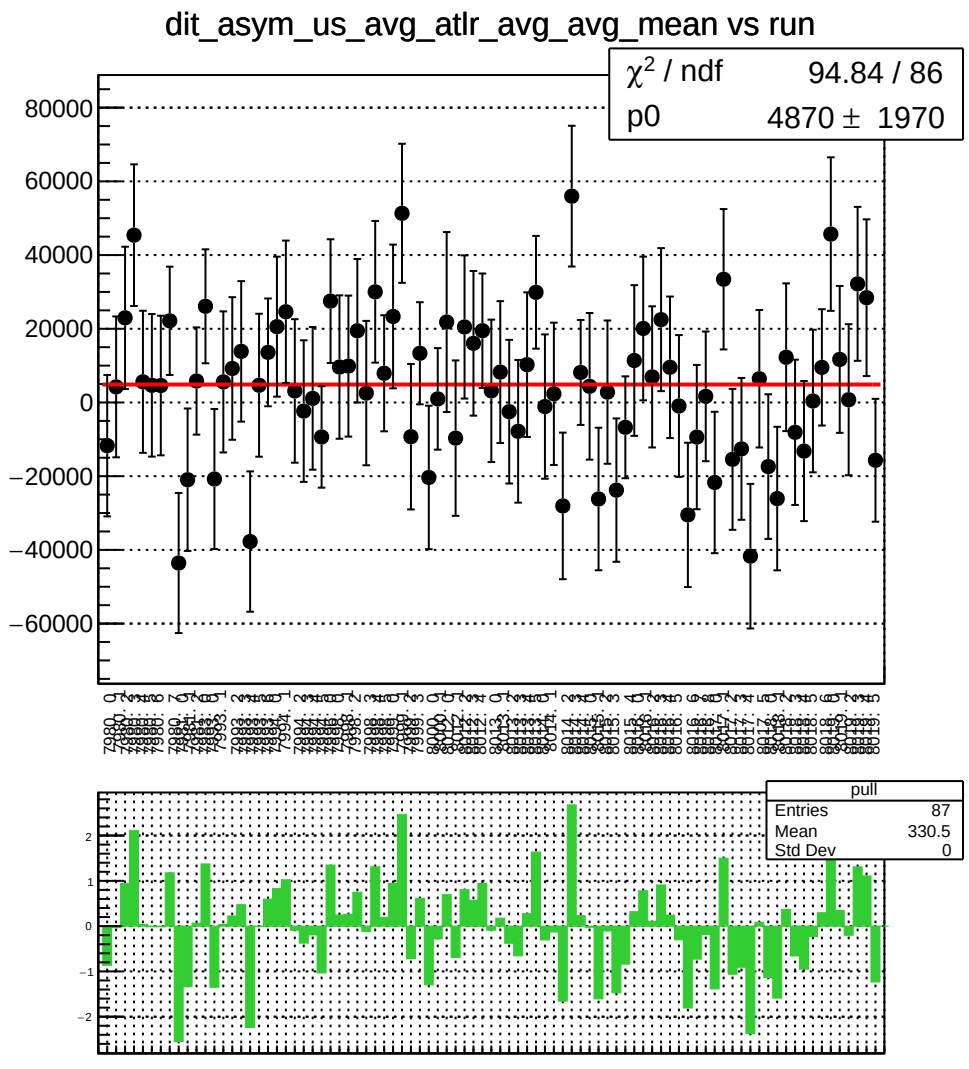

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 90.45 / 86
p0 4645 ± 1929
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 218.6
Std Dev 0
2
1
0
−1
−2

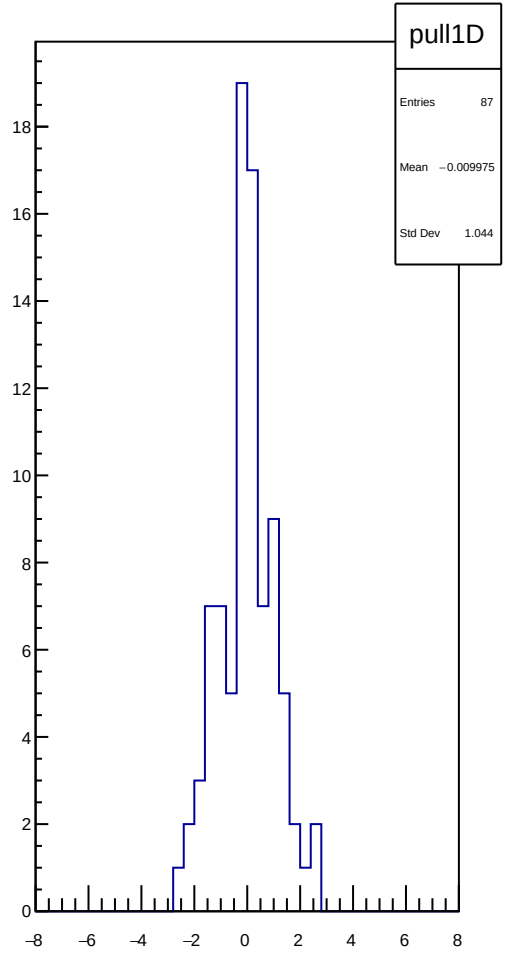

pull1D
Entries 87
Mean −0.01531
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

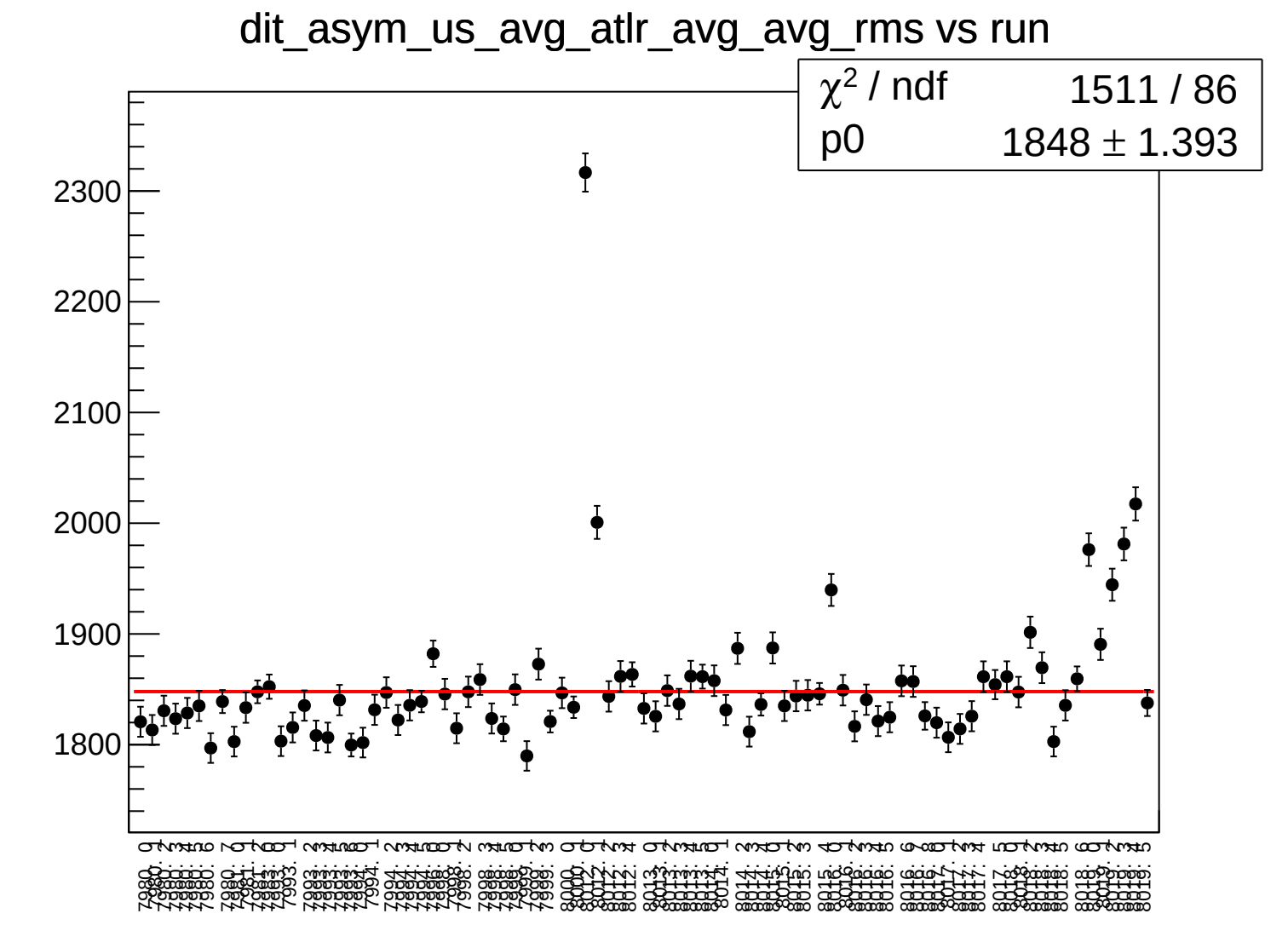

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 850.3 / 86
p0 1810 ± 1.364
2050
2000
1950
1900
1850
1800
1750
1700

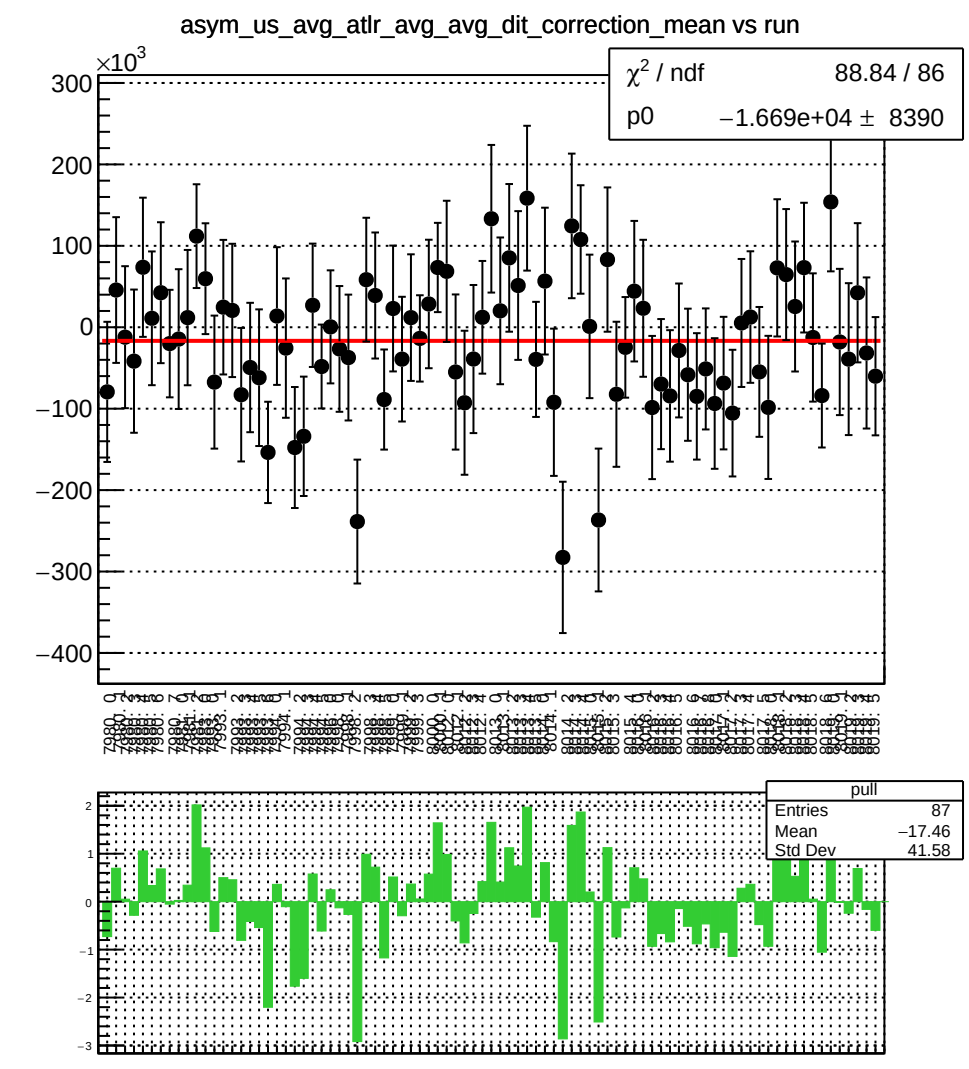

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.71 / 86
p0 −1.617e+04 ± 8223
×10³
pull
Entries 87
Mean 1833
Std Dev 0
pull1D
Entries 87
Mean −0.0001683
Std Dev 1.004

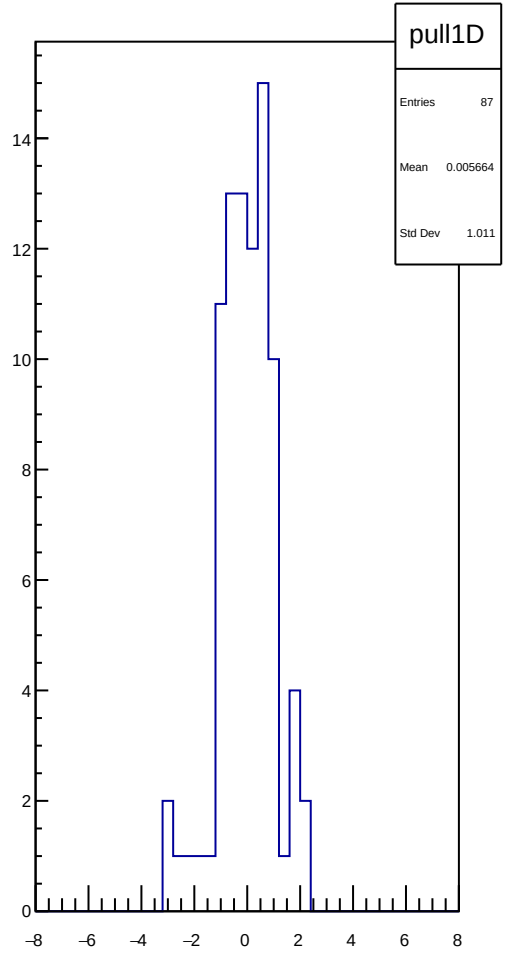

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6733 / 86
p0 7700 ± 5.814
9000
8500
8000
7500
7000
6500

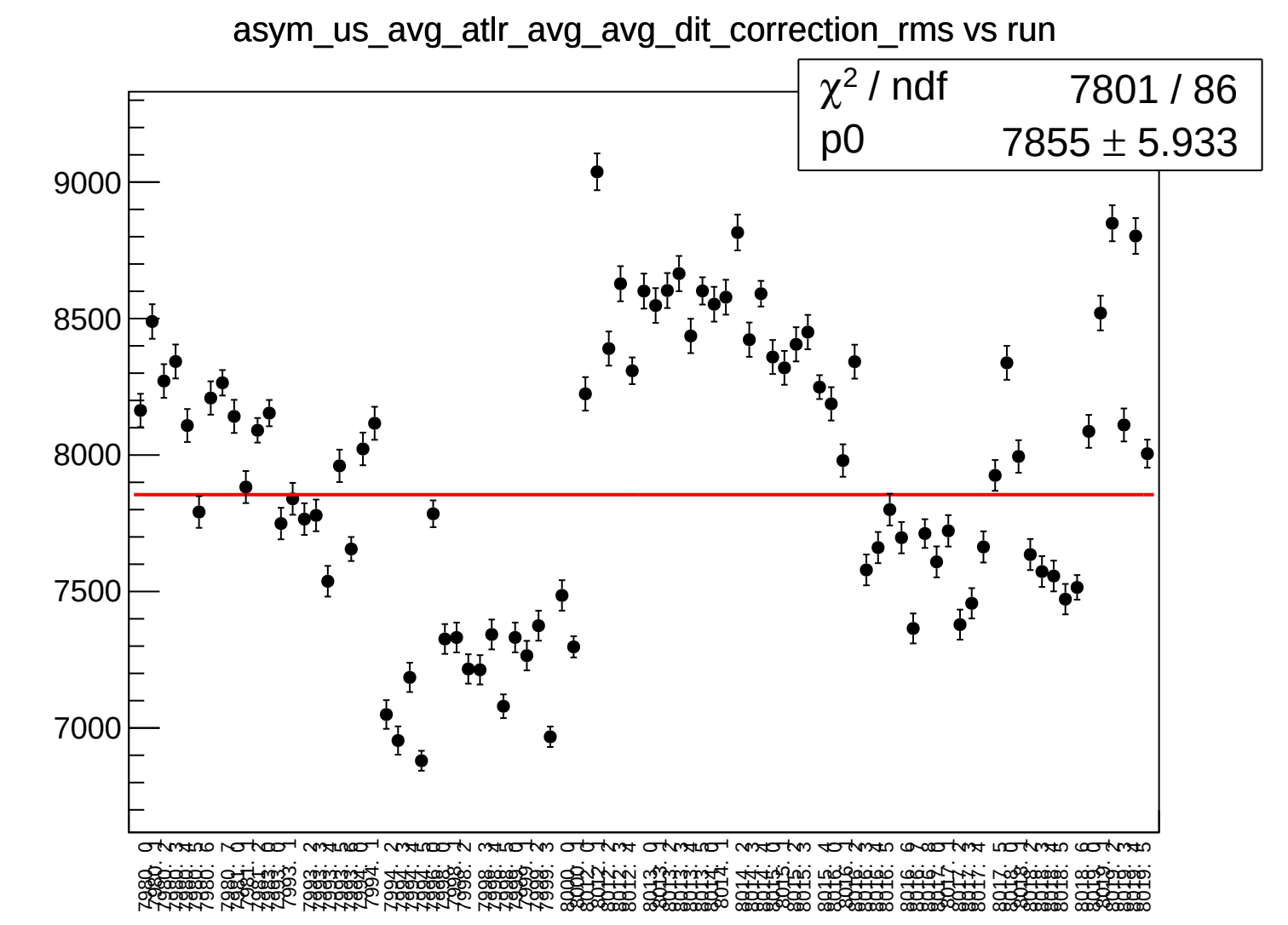

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 94.84 / 86
p0 4870 ± 1970
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 330.5
Std Dev 0
2
1
0
−1
−2

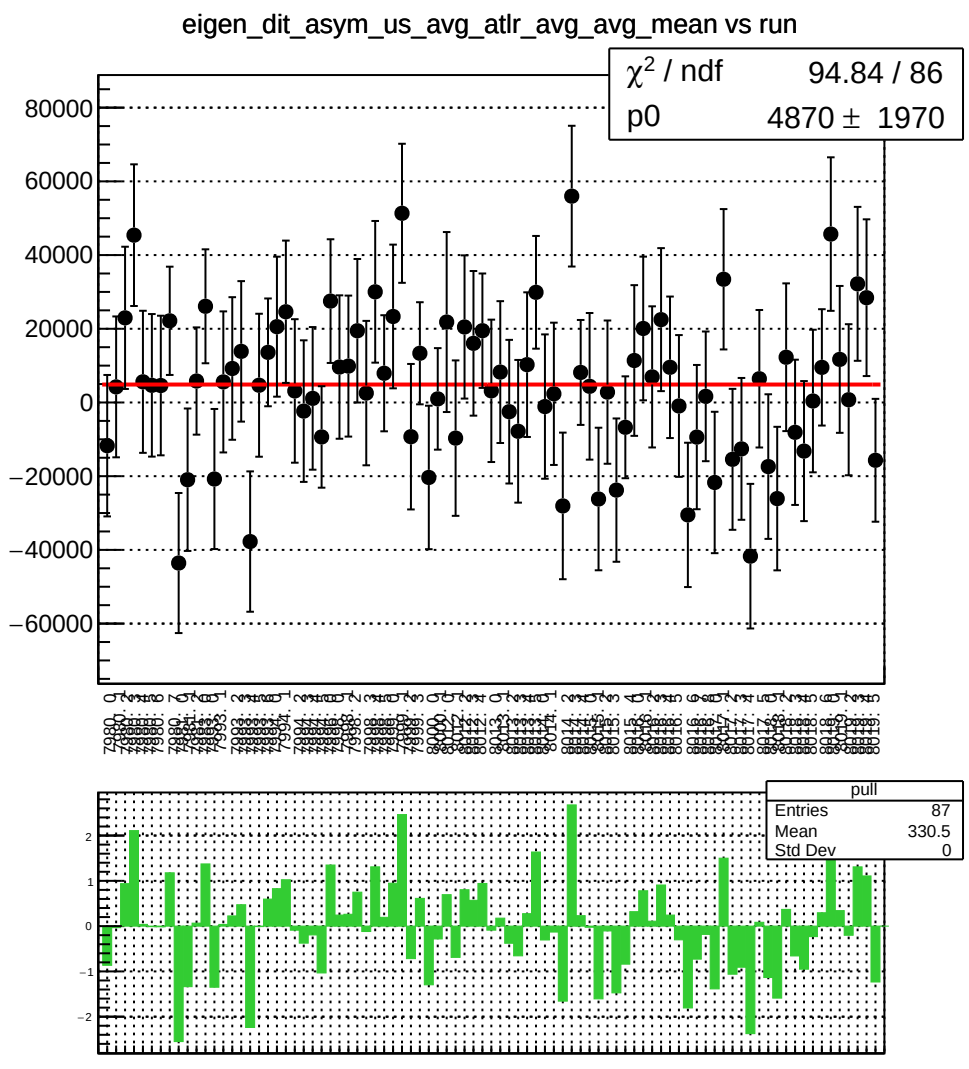

pull1D
Entries 87
Mean −0.009975
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

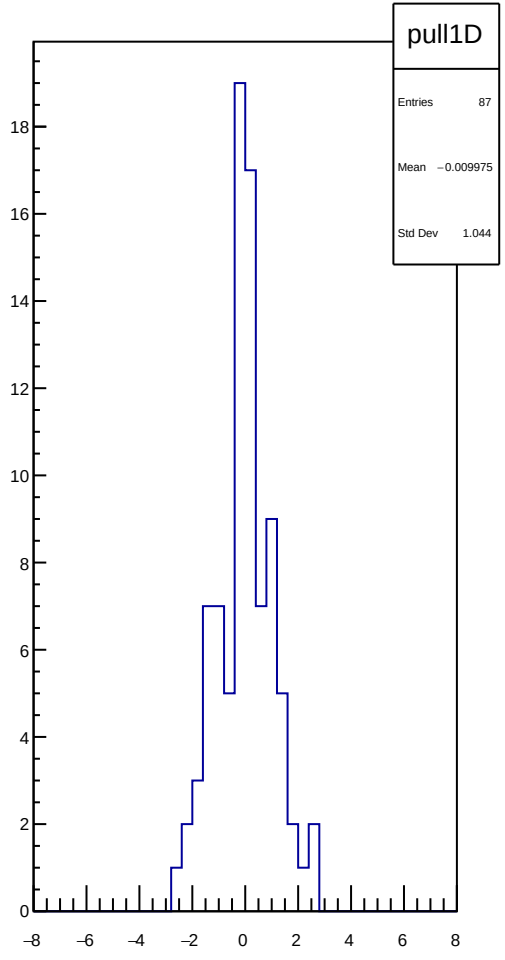

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1511 / 86
p0 1848 ± 1.393
2300
2200
2100
2000
1900
1800

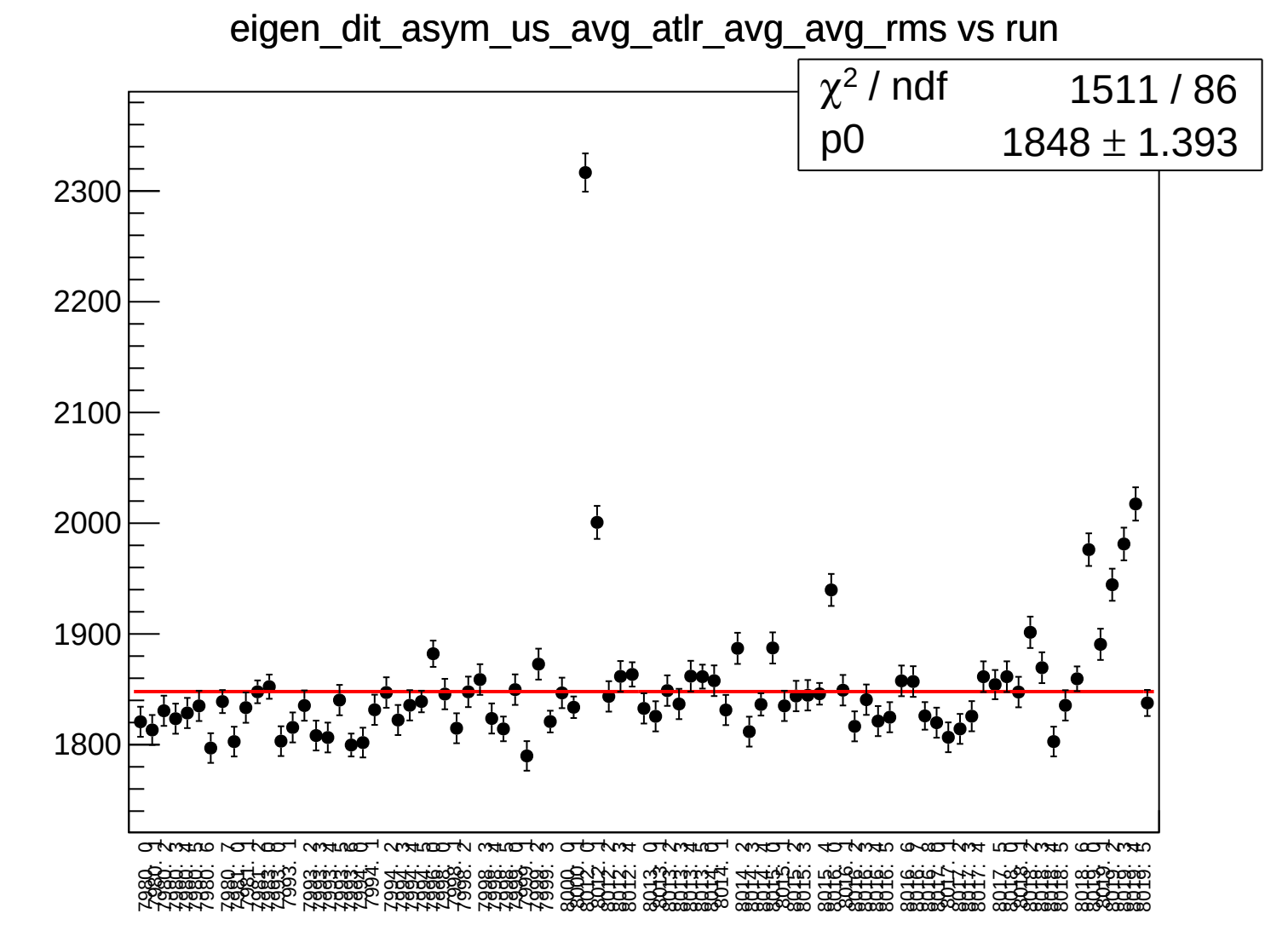

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.84 / 86
p0 −1.669e+04 ± 8390
pull
Entries 87
Mean −17.46
Std Dev 41.58

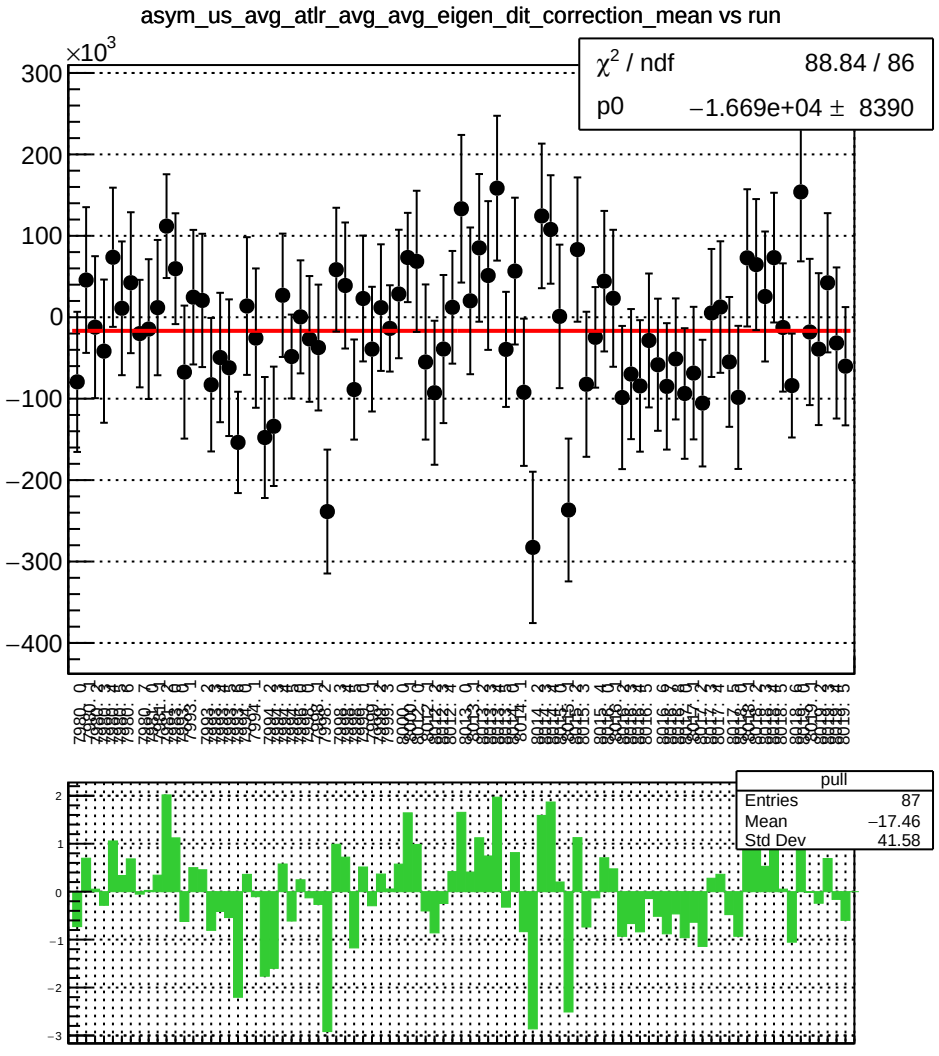

pull1D
Entries 87
Mean 0.005664
Std Dev 1.011

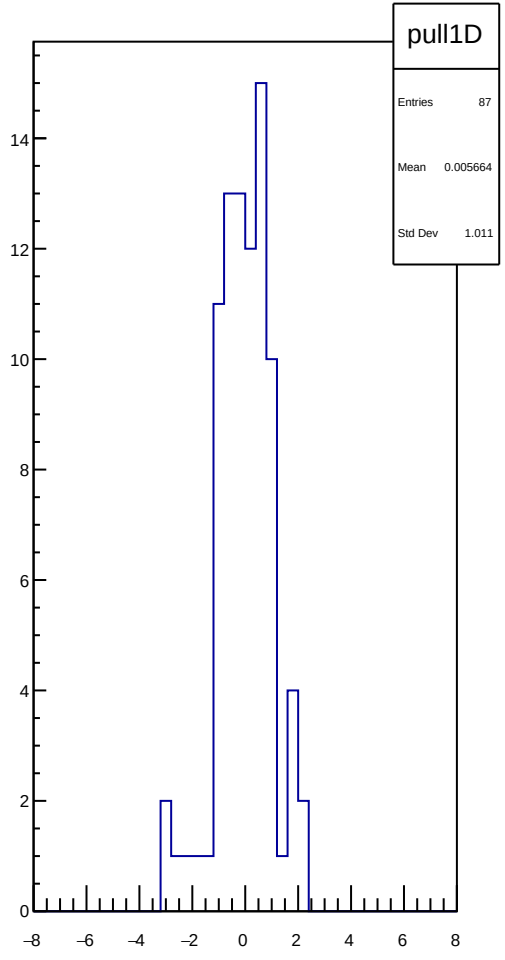

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 7801 / 86
p0 7855 ± 5.933
9000
8500
8000
7500
7000

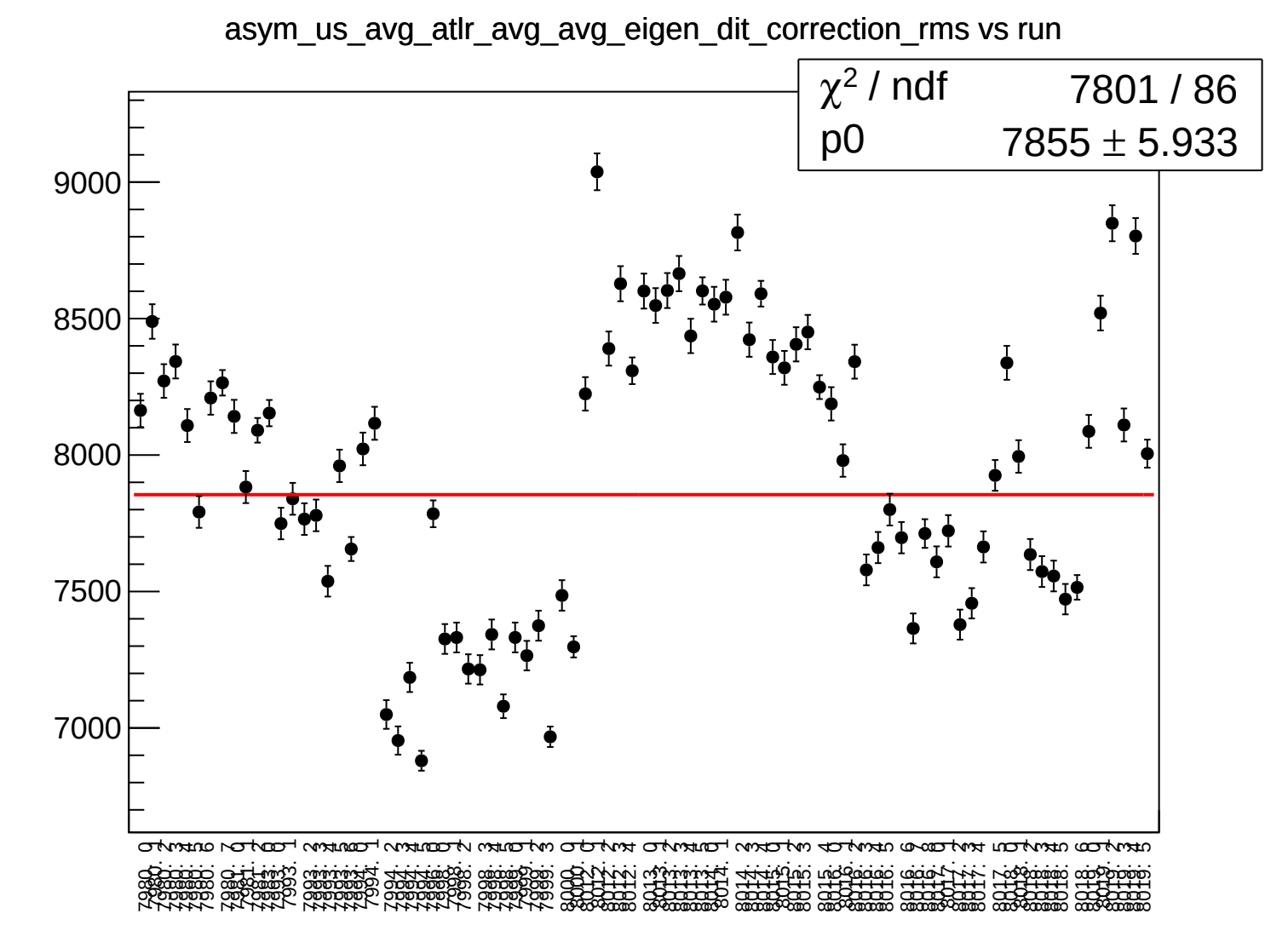

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 94.84 / 86
p0 4870 ± 1970
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 330.5
Std Dev 0
2
1
0
−1
−2

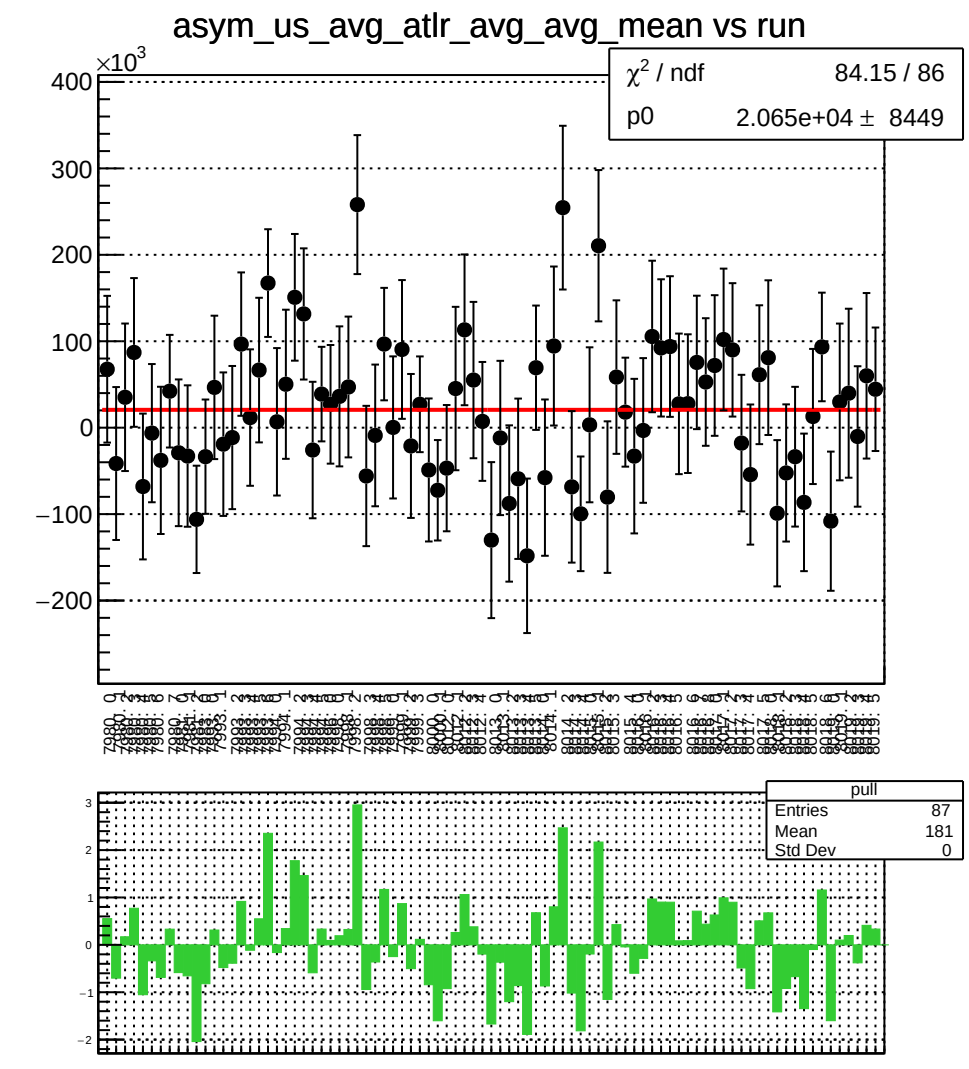

pull1D
Entries 87
Mean −0.009975
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

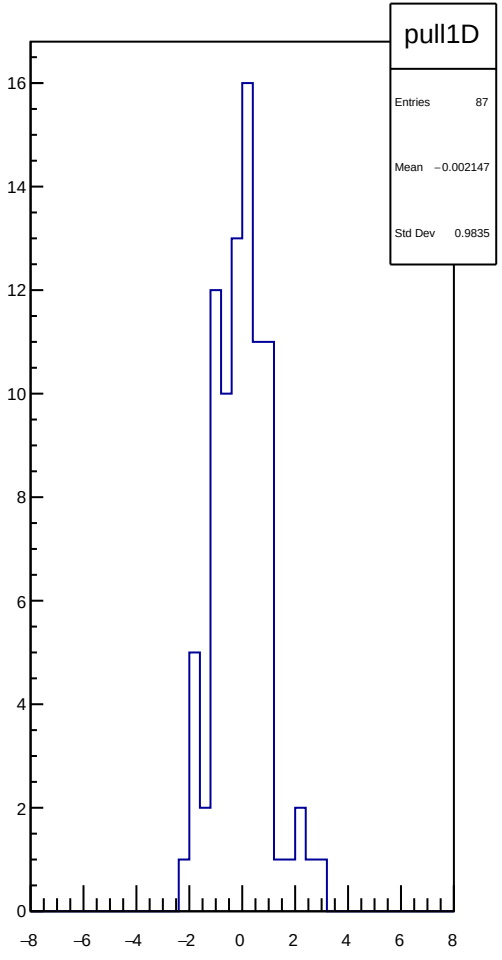

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1511 / 86
p0 1848 ± 1.393
2300
2200
2100
2000
1900
1800

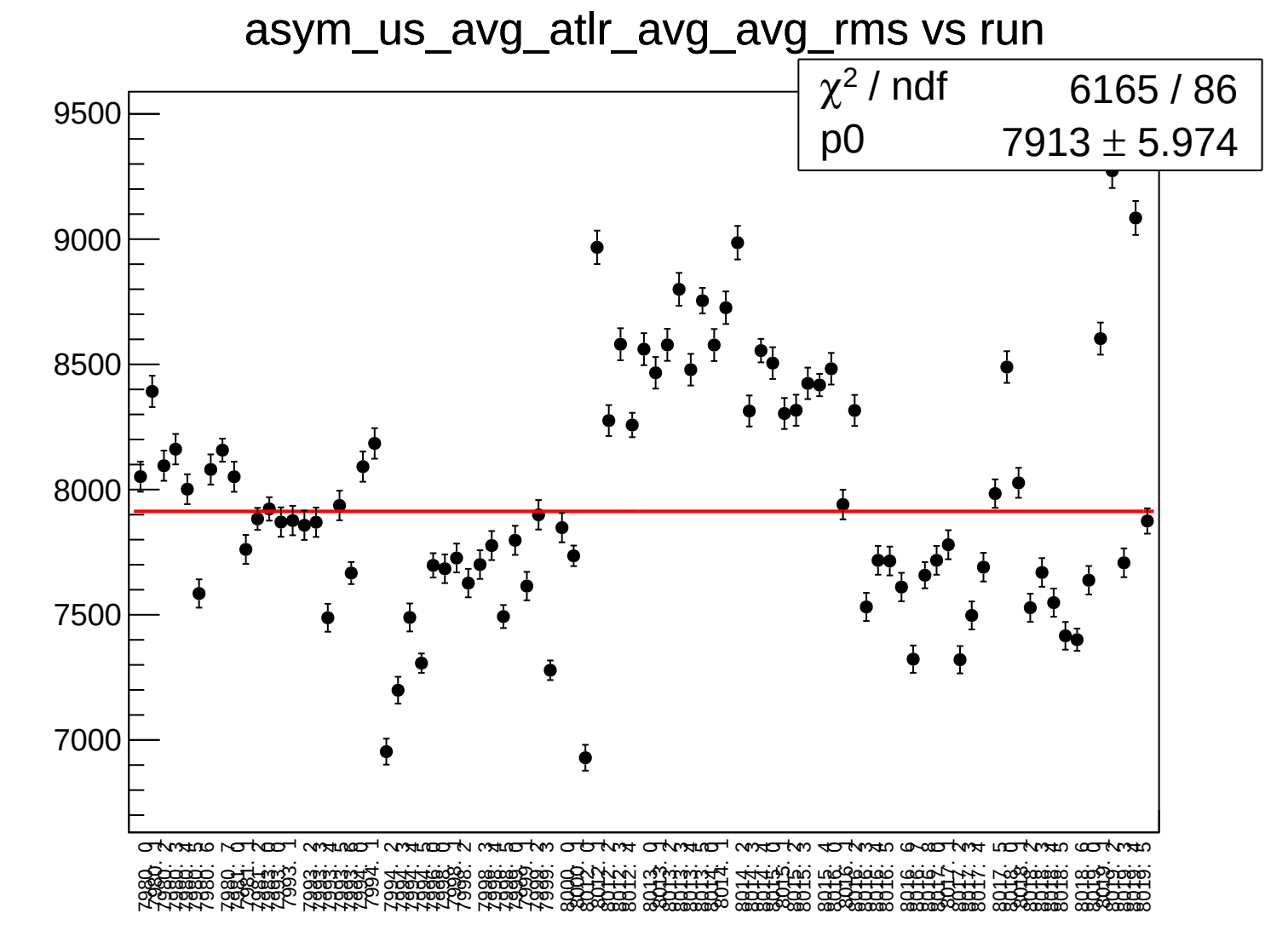

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.84 / 86
p0 −1.669e+04 ± 8390
pull
Entries 87
Mean −17.46
Std Dev 41.58

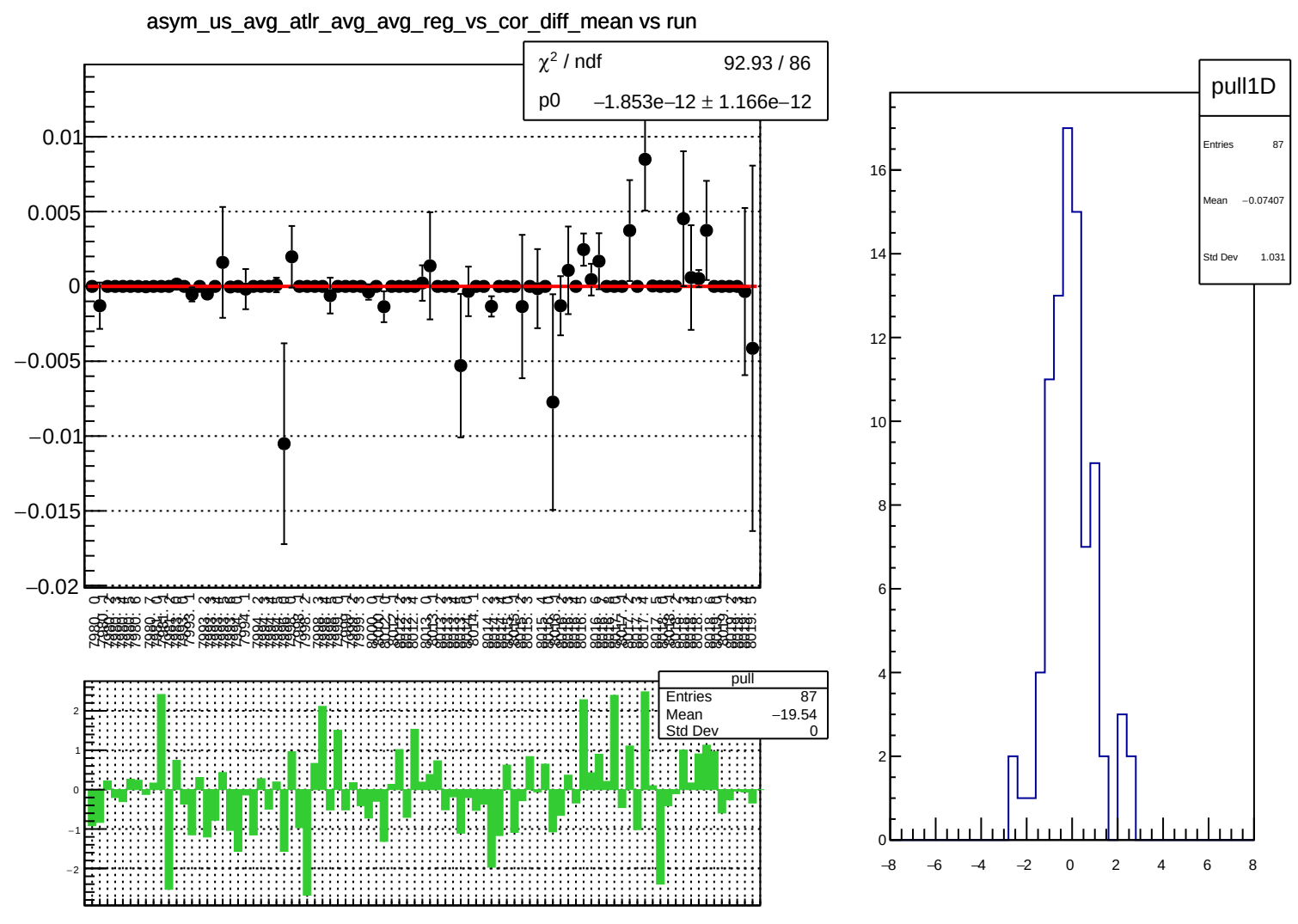

pull1D
Entries 87
Mean 0.005664
Std Dev 1.011

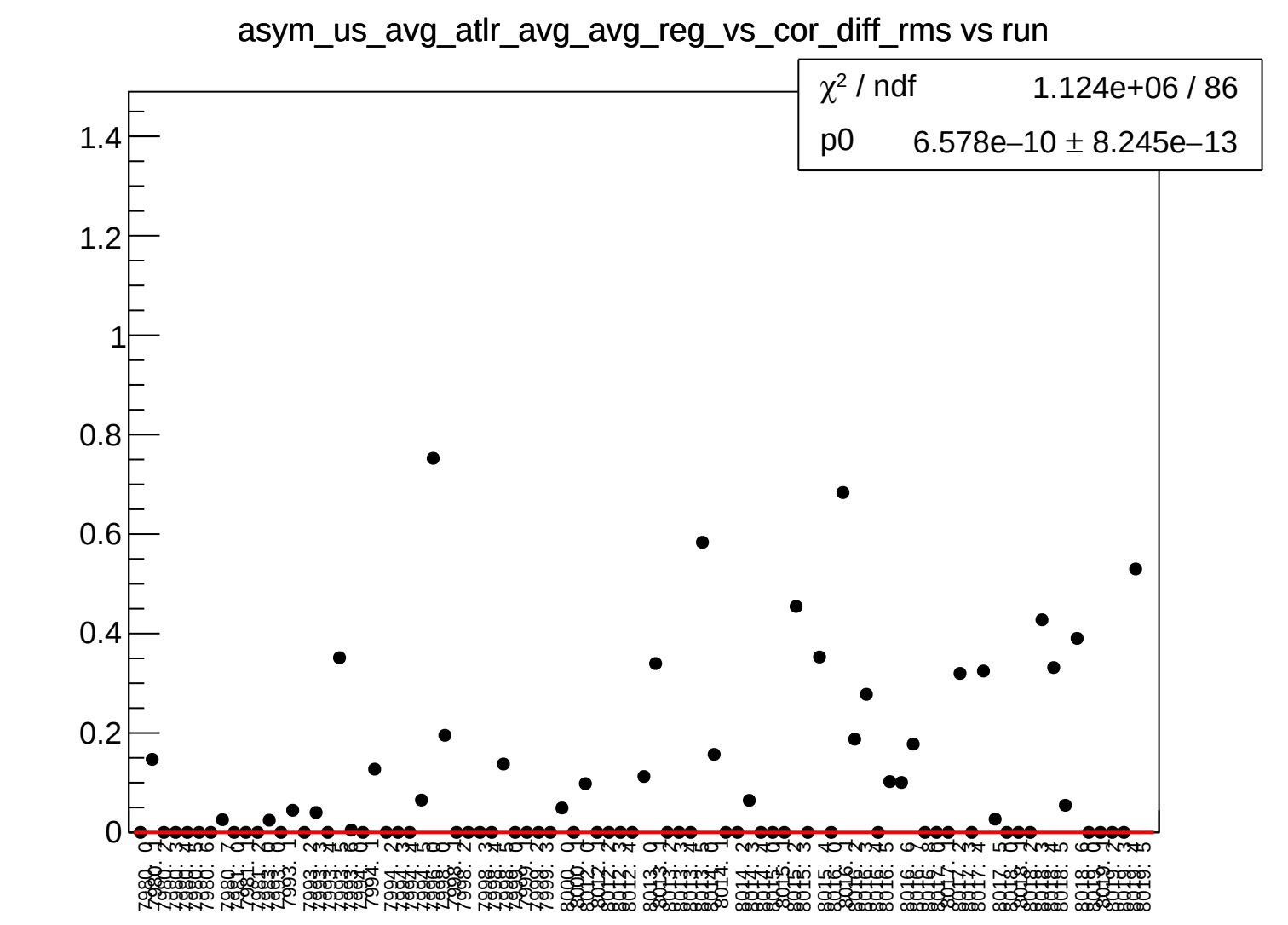

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7801 / 86
p0 7855 ± 5.933
9000
8500
8000
7500
7000

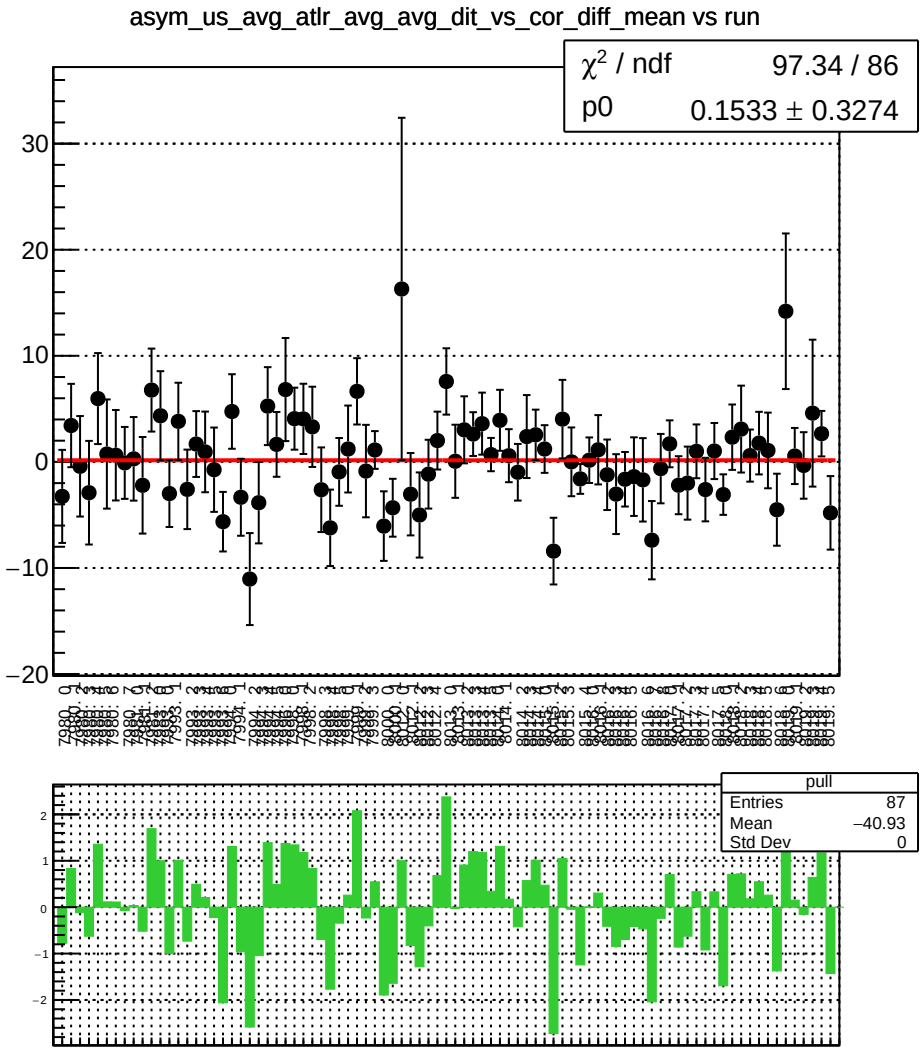

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 84.15 / 86
p0 2.065e+04 ± 8449
pull
Entries 87
Mean 181
Std Dev 0

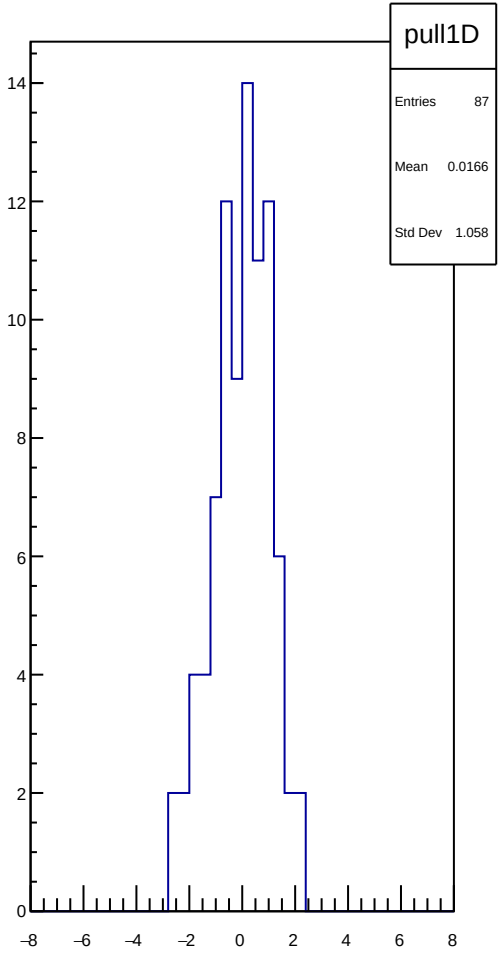

pull1D
Entries 87
Mean −0.002147
Std Dev 0.9835

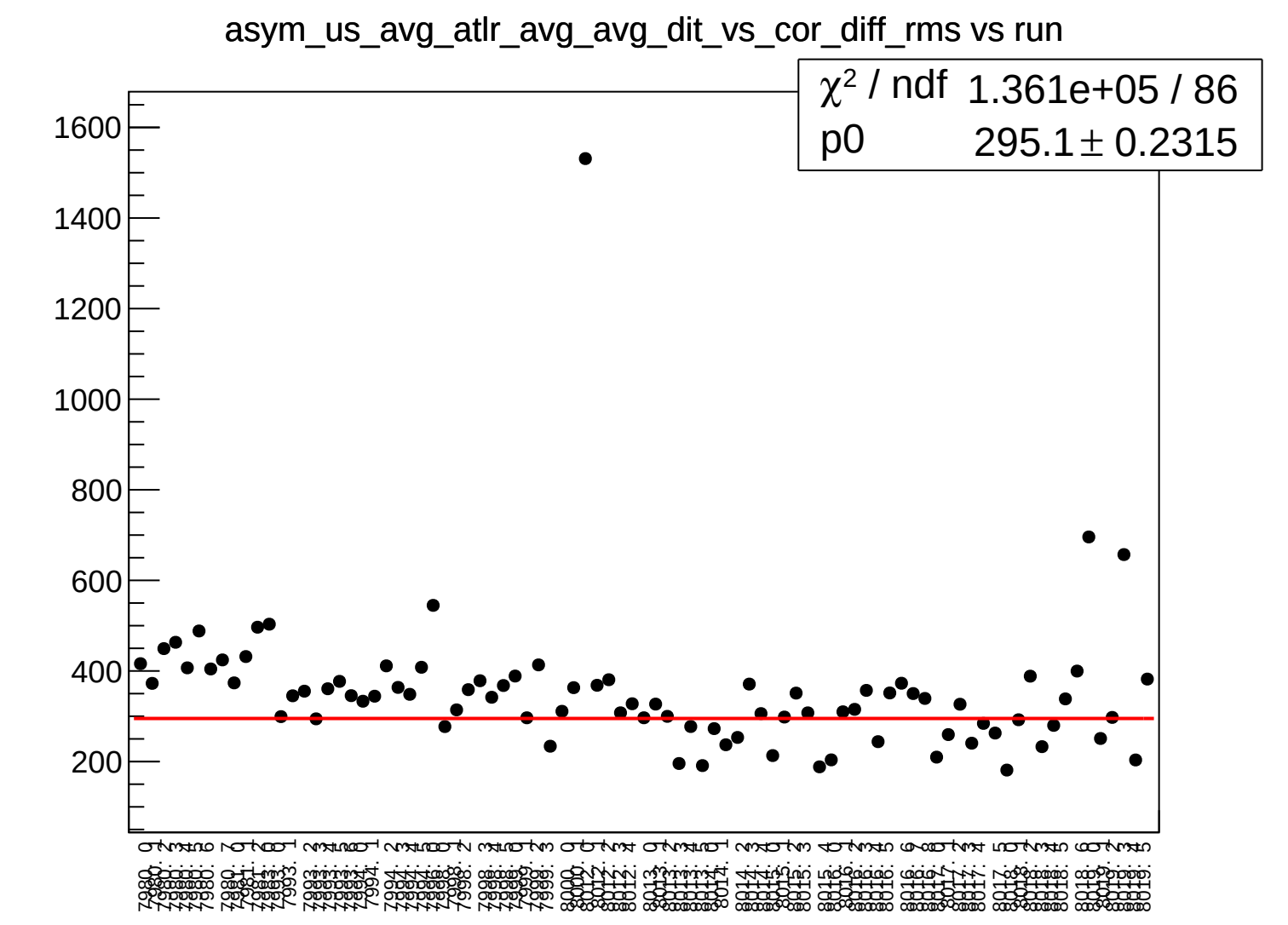

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 6165 / 86
p0 7913 ± 5.974
9500
9000
8500
8000
7500
7000

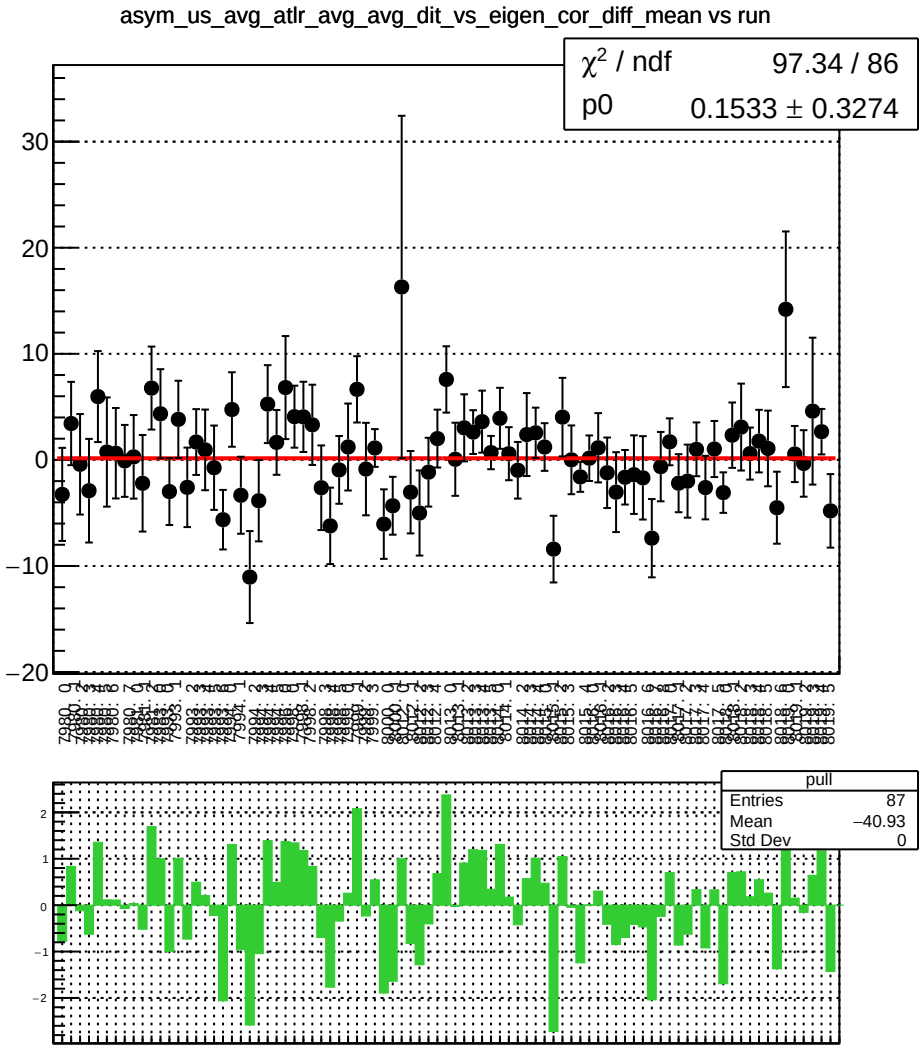

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.93 / 86
p0 −1.853e−12 ± 1.166e−12
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 87
Mean −19.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.07407
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

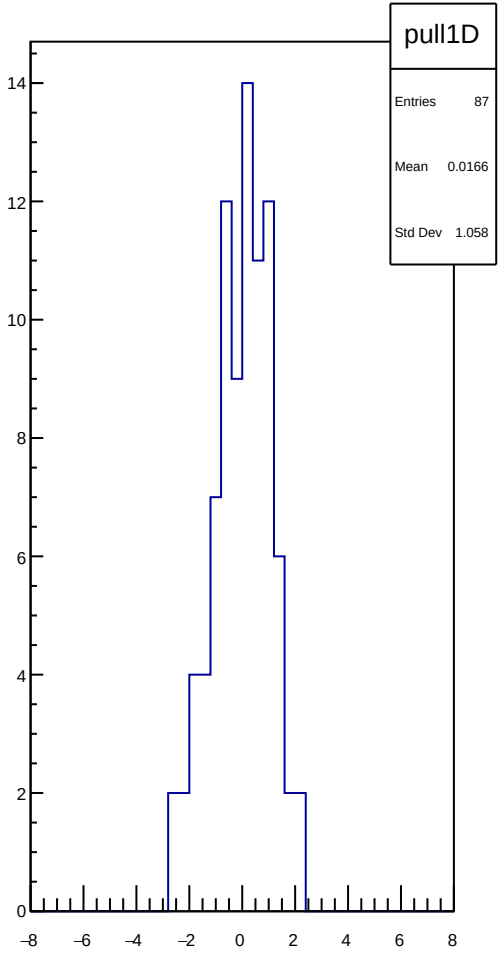

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.124e+06 / 86
p0 6.578e−10 ± 8.245e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

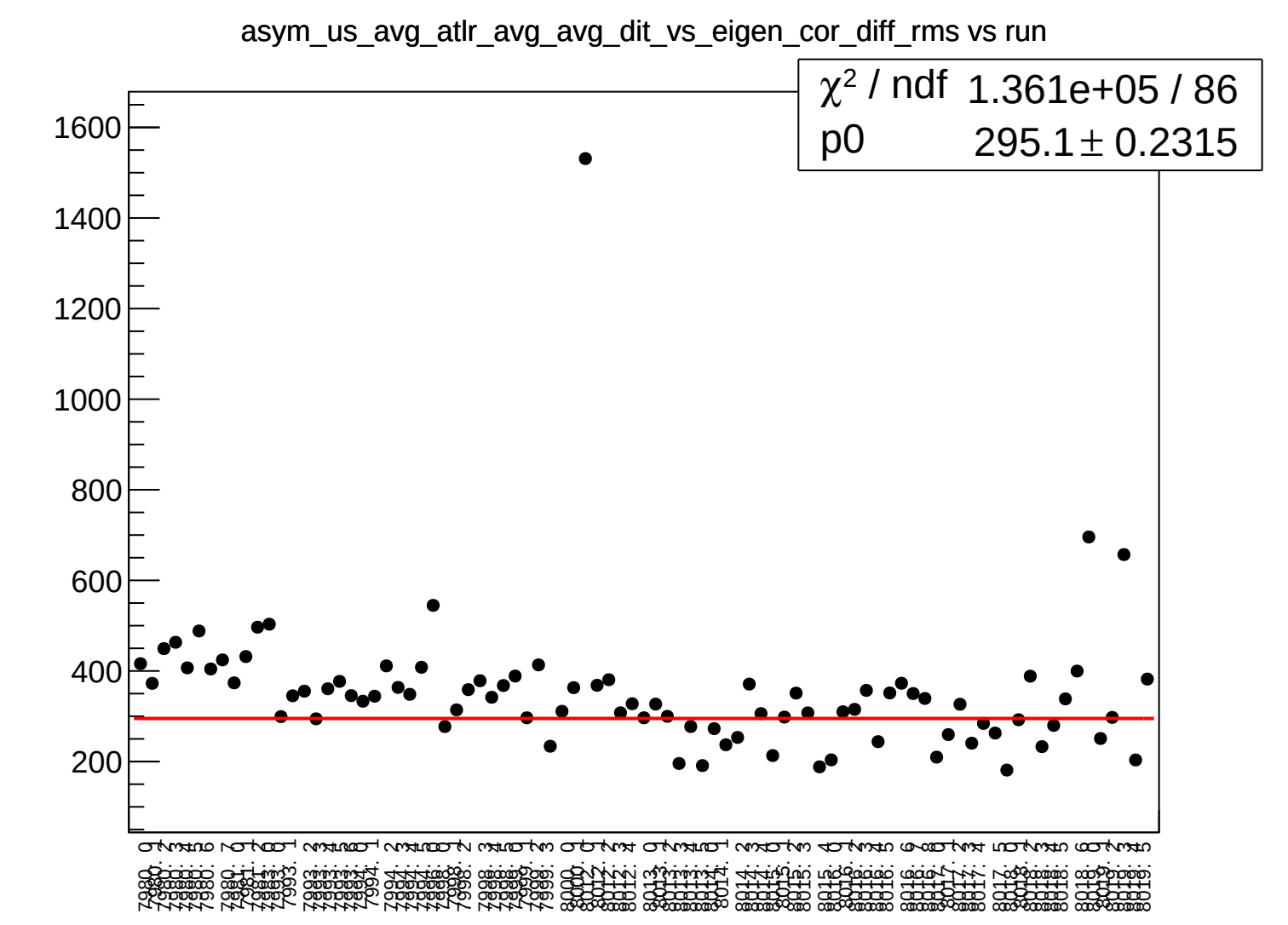

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.34 / 86
p0 0.1533 ± 0.3274
pull
Entries 87
Mean −40.93
Std Dev 0

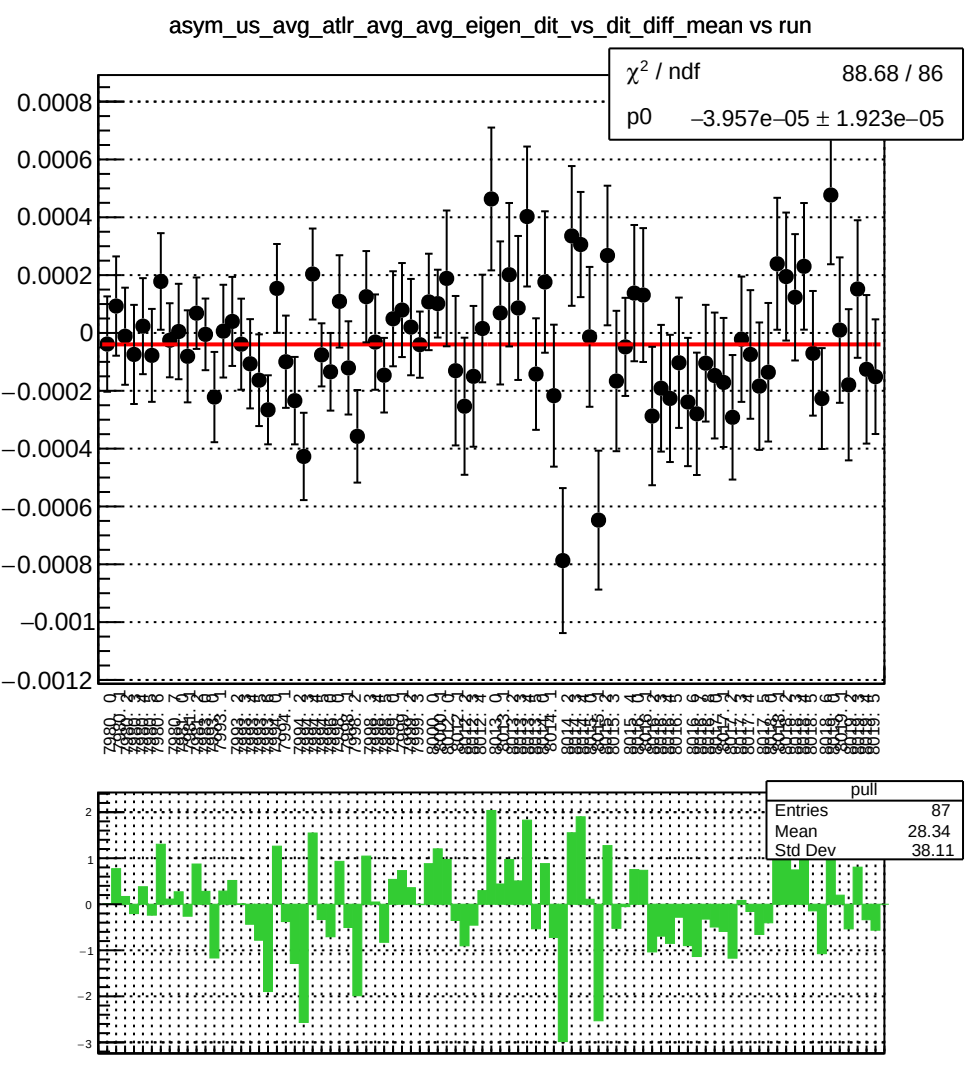

pull1D
Entries 87
Mean 0.0166
Std Dev 1.058

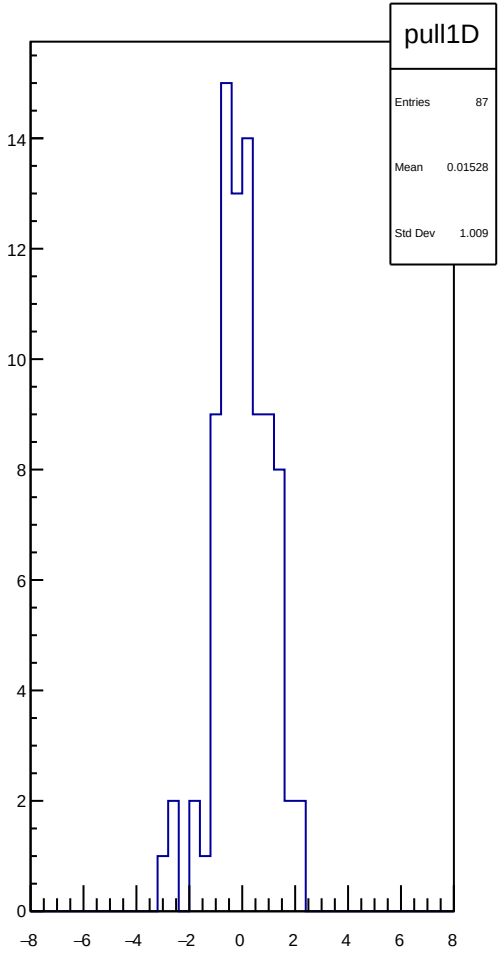

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.361e+05 / 86
p0 295.1 ± 0.2315
1600
1400
1200
1000
800
600
400
200

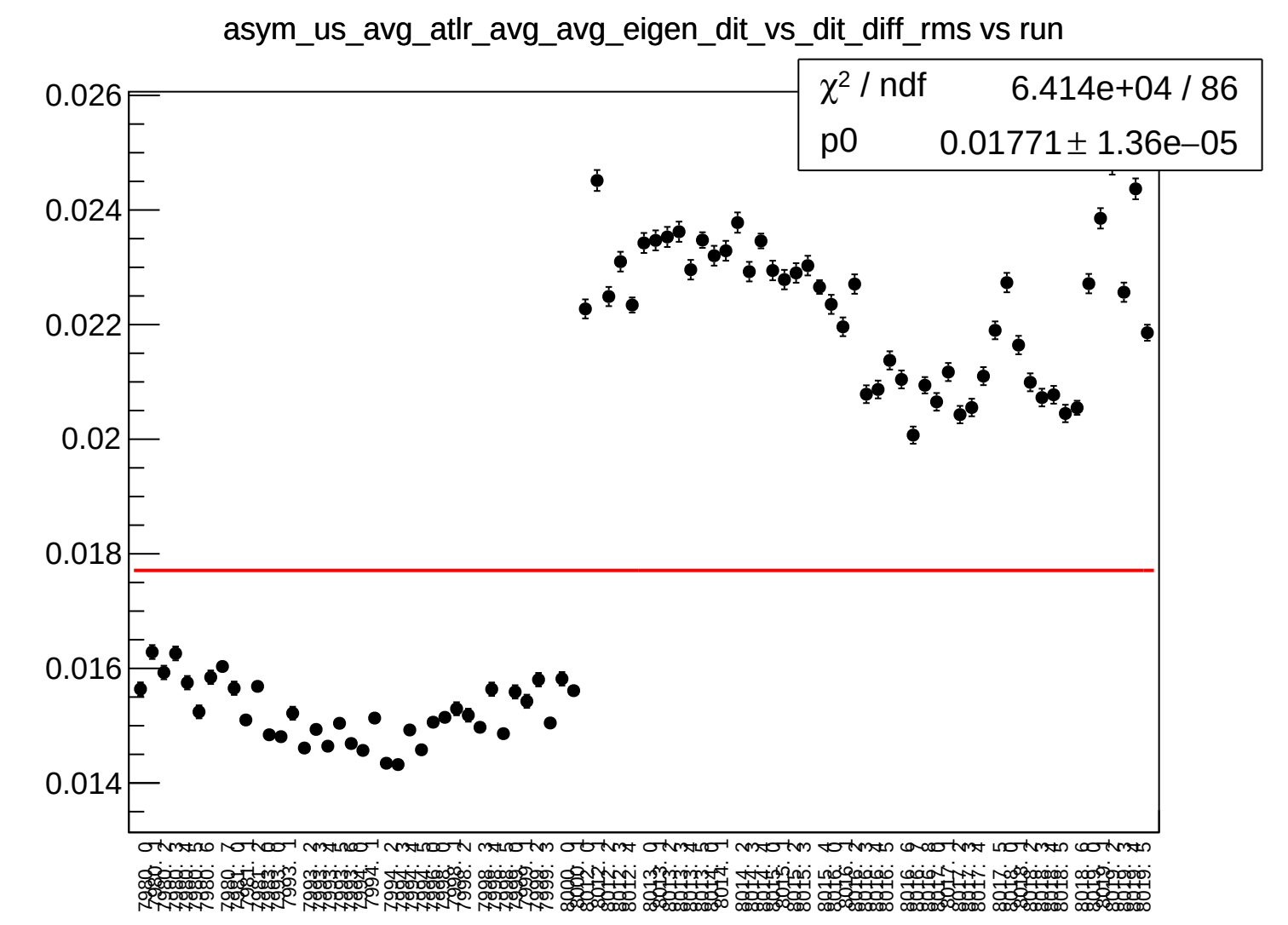

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.34 / 86
p0 0.1533 ± 0.3274
pull
Entries 87
Mean −40.93
Std Dev 0

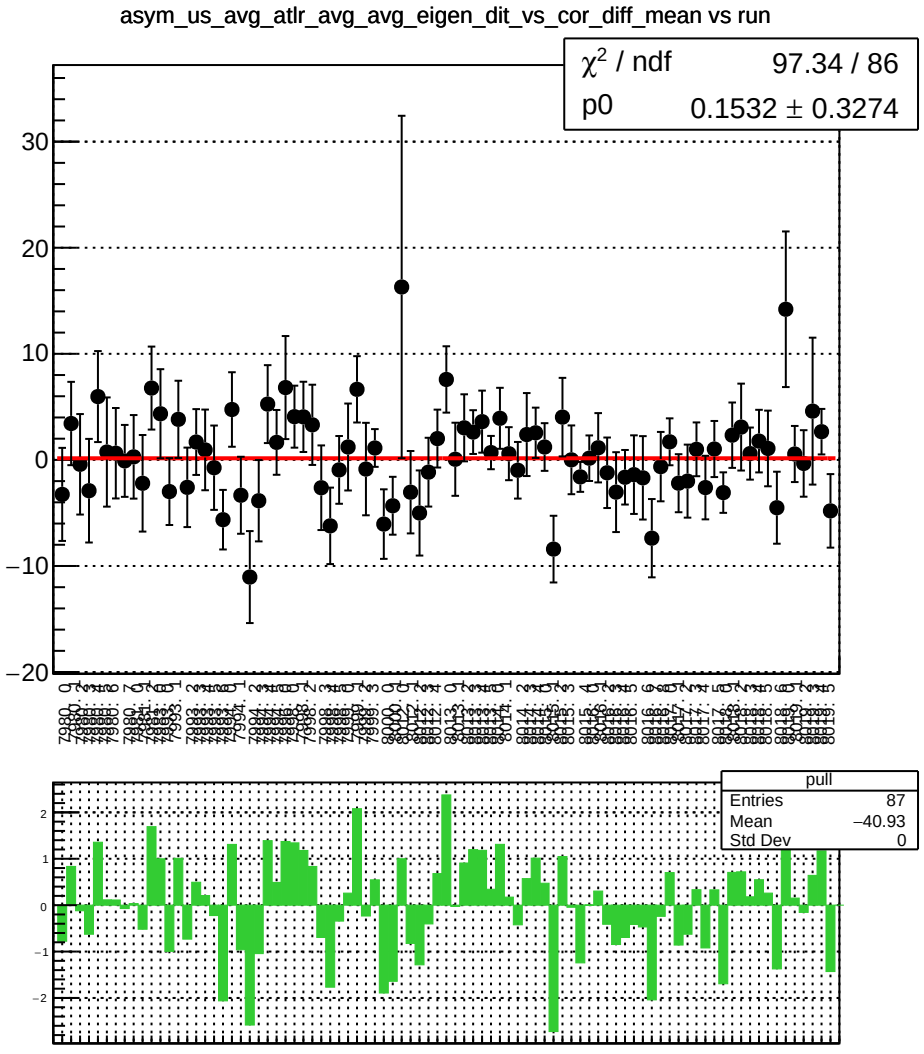

pull1D
Entries 87
Mean 0.0166
Std Dev 1.058

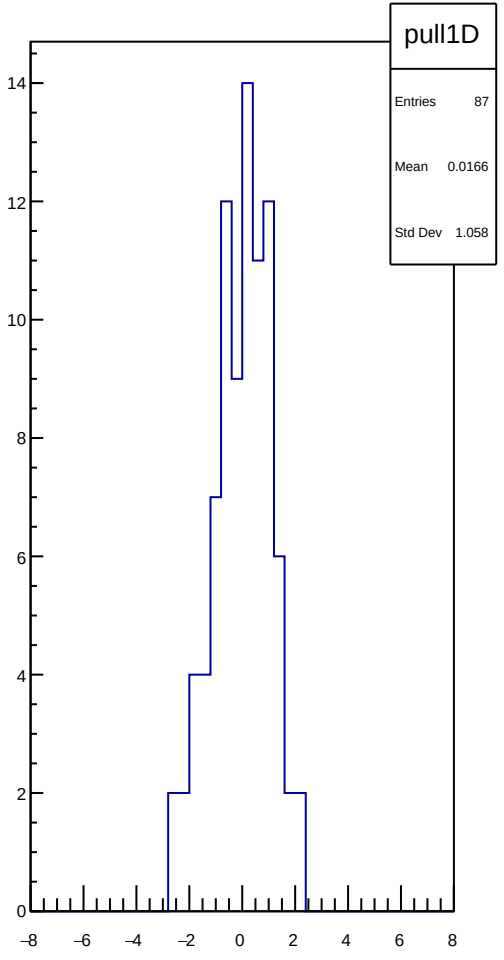

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.361e+05 / 86
p0 295.1 ± 0.2315
1600
1400
1200
1000
800
600
400
200

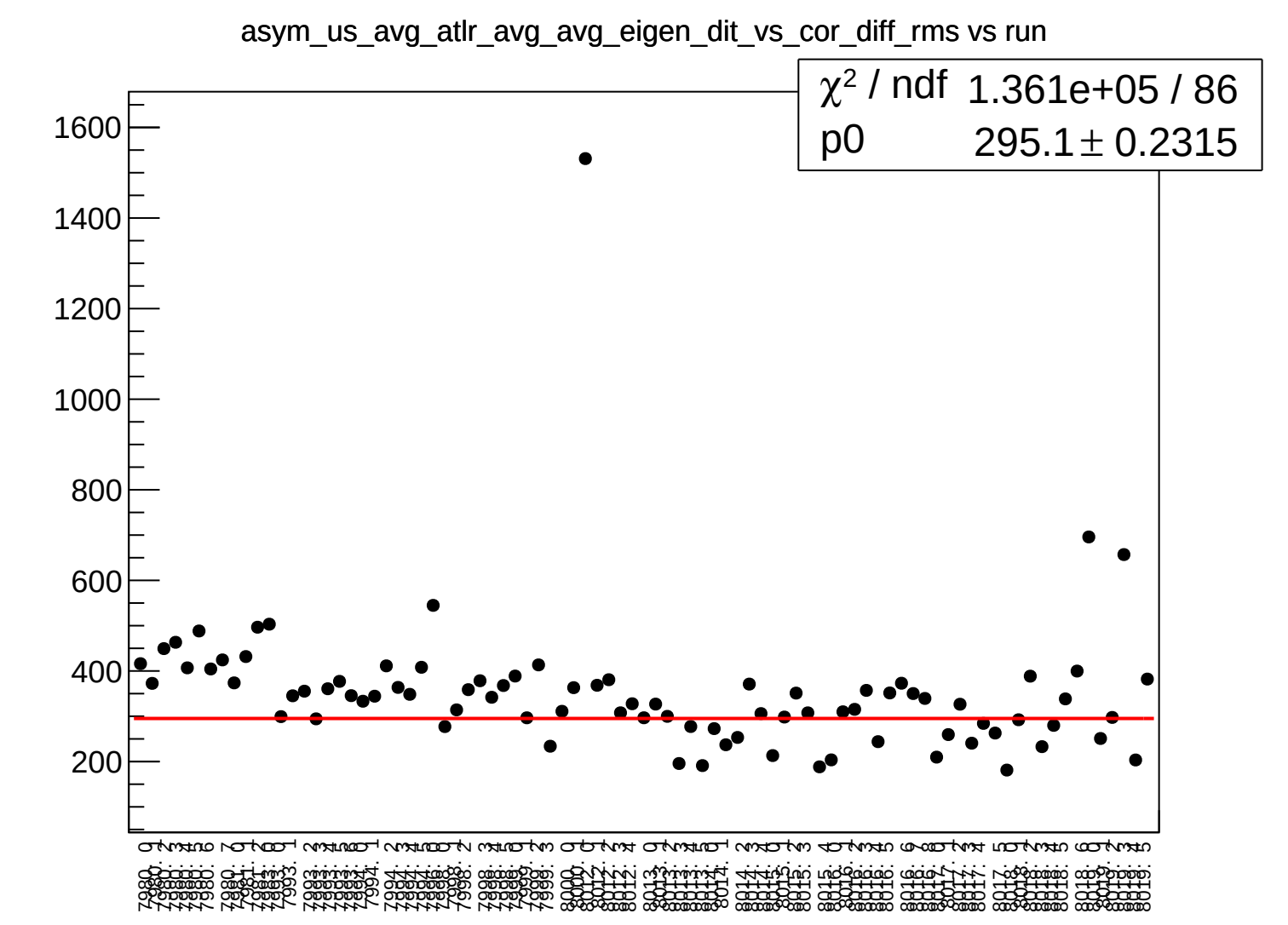

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 88.68 / 86
p0 −3.957e−05 ± 1.923e−05
pull
Entries 87
Mean 28.34
Std Dev 38.11

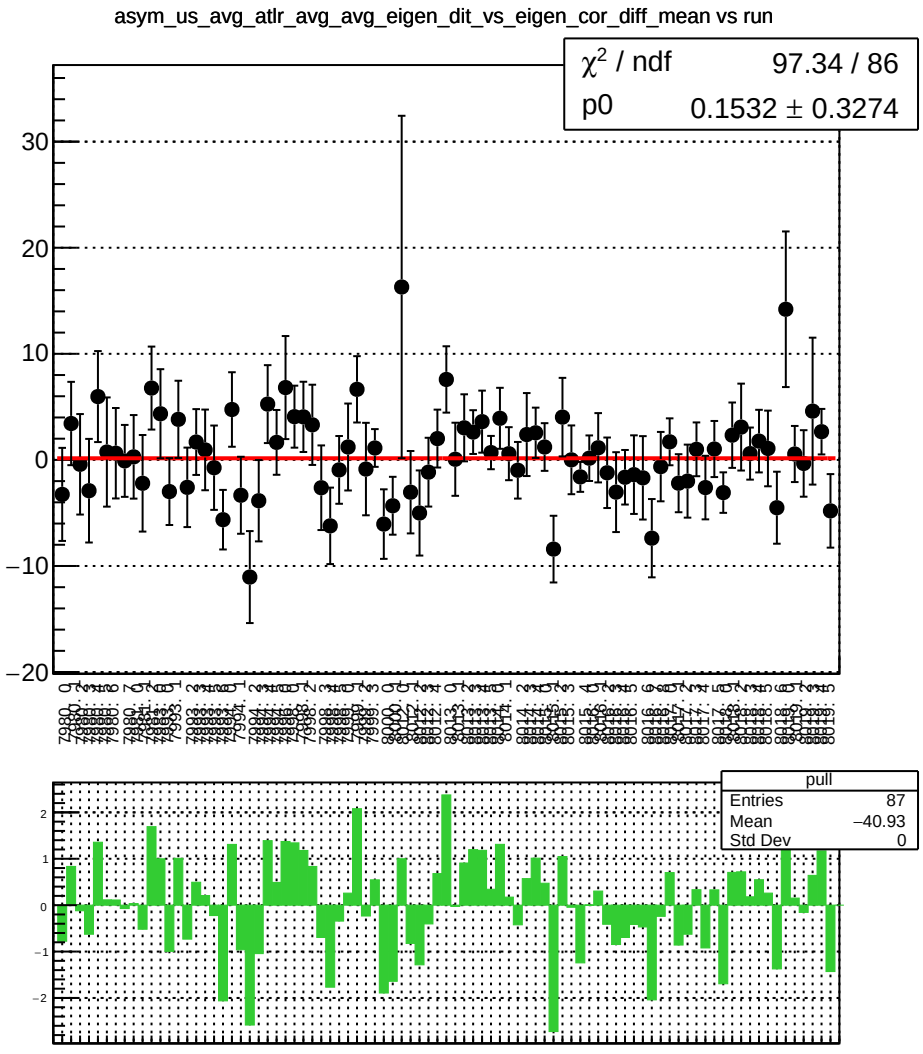

pull1D
Entries 87
Mean 0.01528
Std Dev 1.009

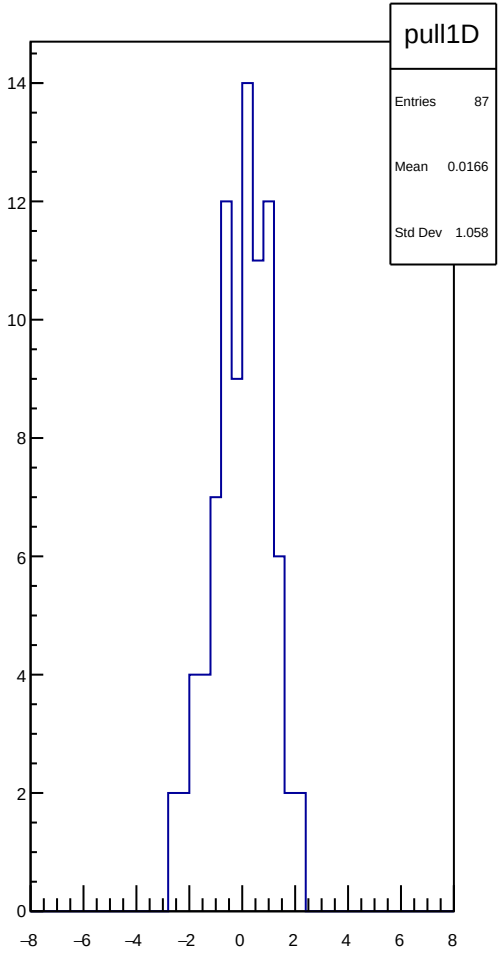

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.414e+04 / 86
p0 0.01771 ± 1.36e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014

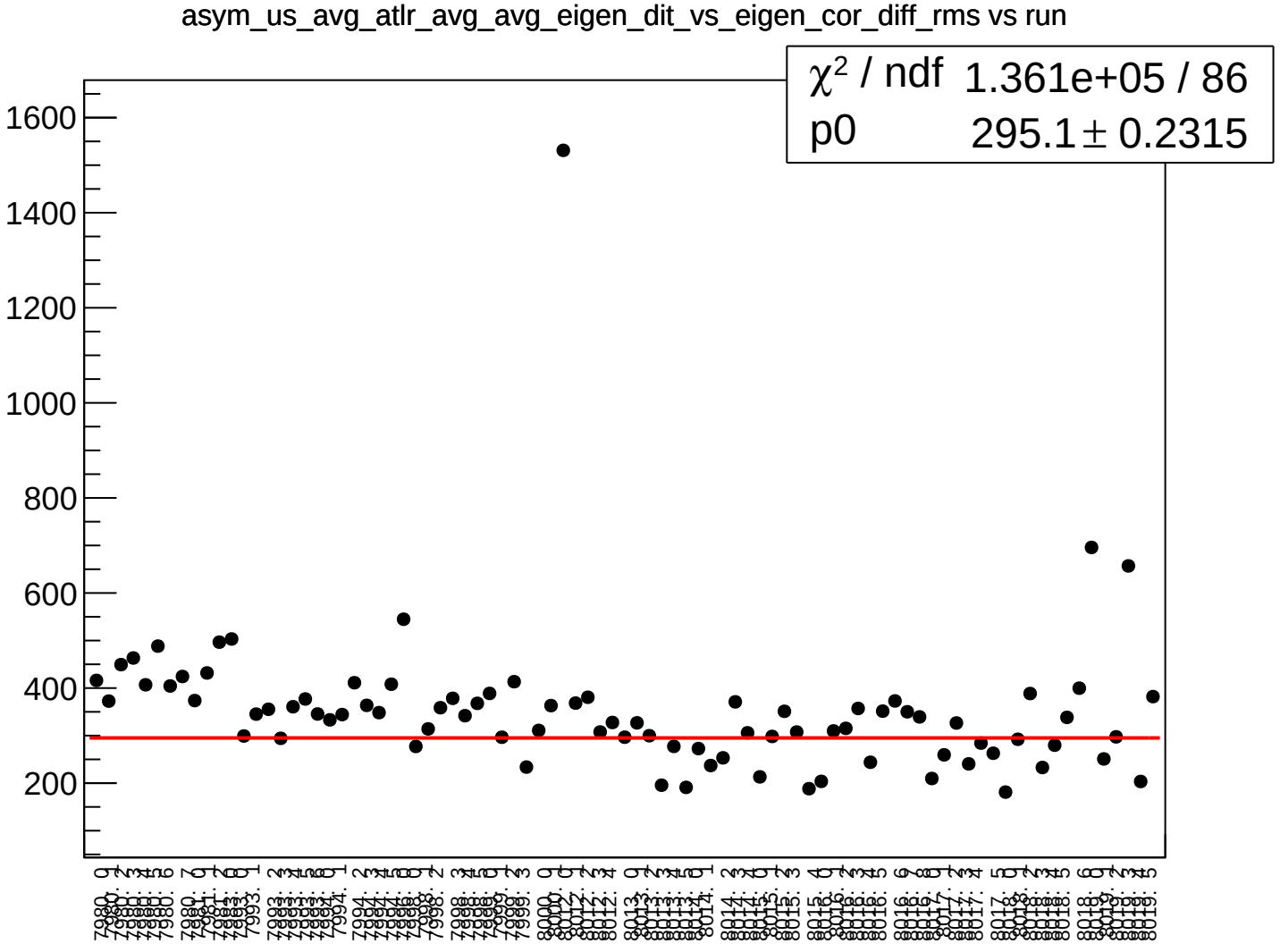

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.34 / 86
p0 0.1532 ± 0.3274
pull
Entries 87
Mean −40.93
Std Dev 0

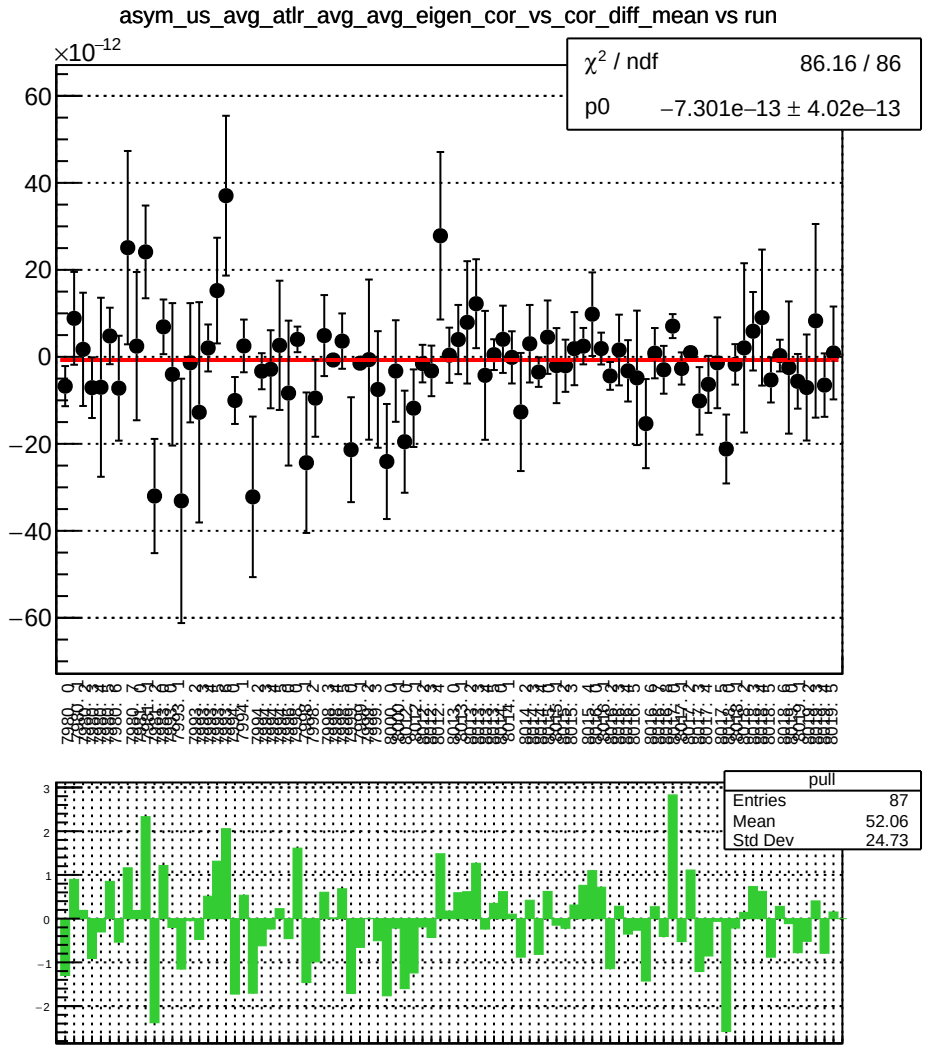

pull1D
Entries 87
Mean 0.0166
Std Dev 1.058

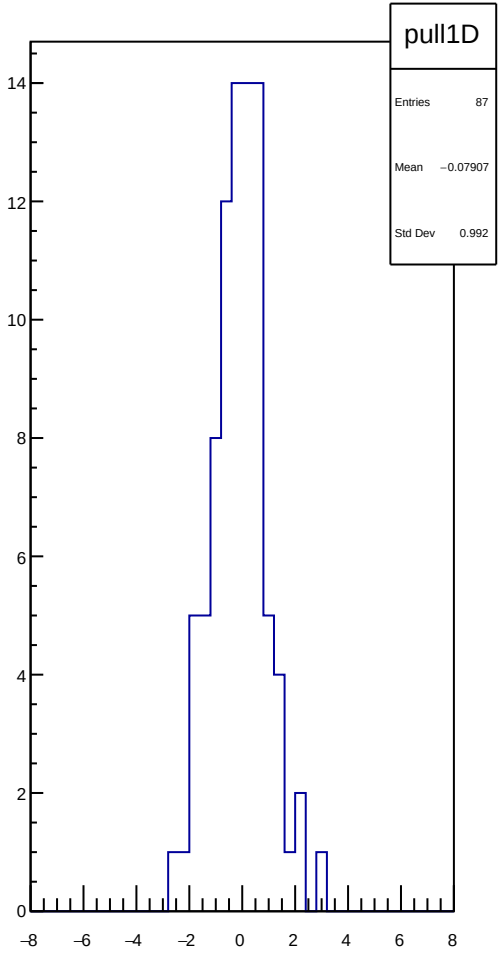

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.361e+05 / 86
p0 295.1 ± 0.2315
1600
1400
1200
1000
800
600
400
200

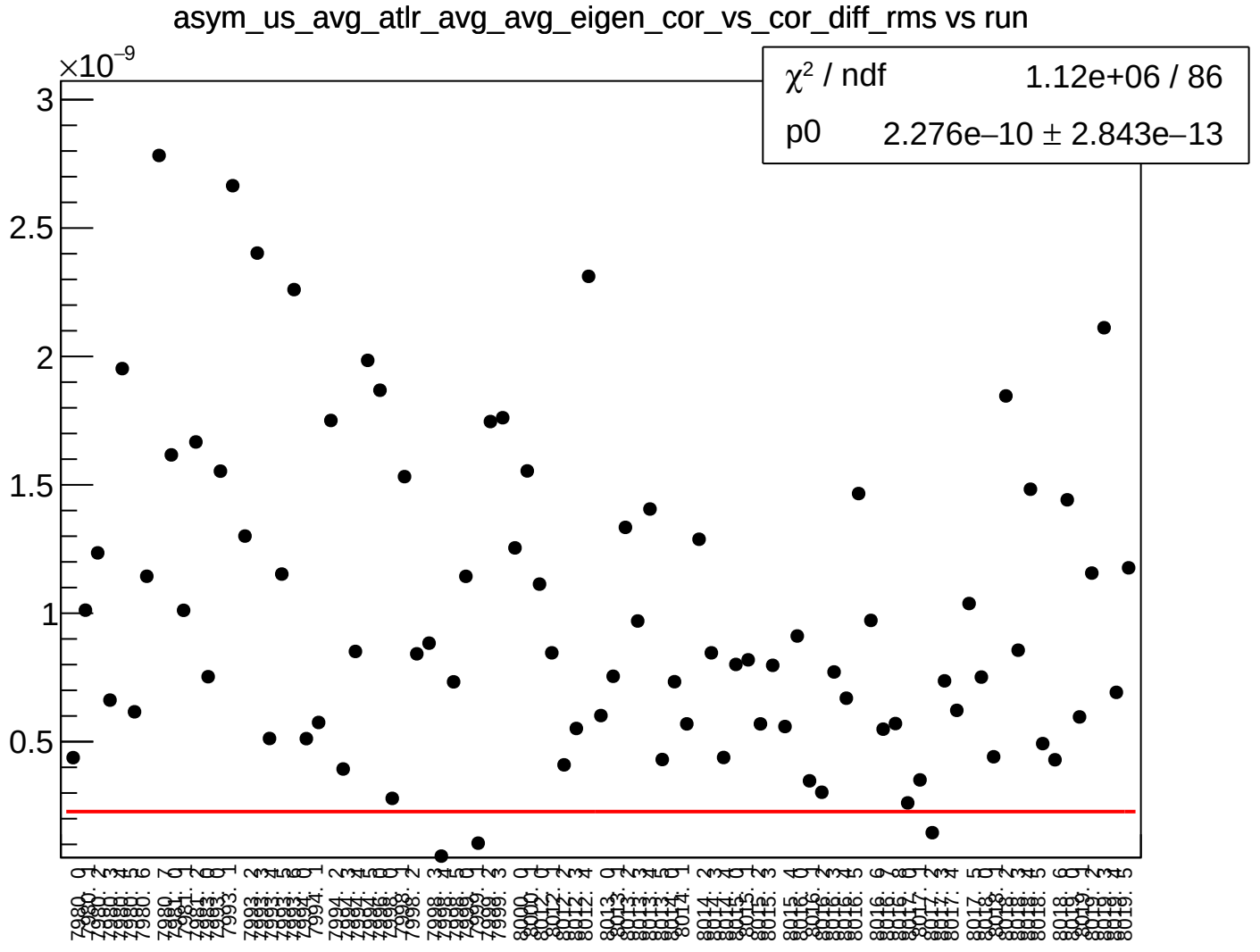

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.34 / 86
p0 0.1532 ± 0.3274
pull
Entries 87
Mean −40.93
Std Dev 0

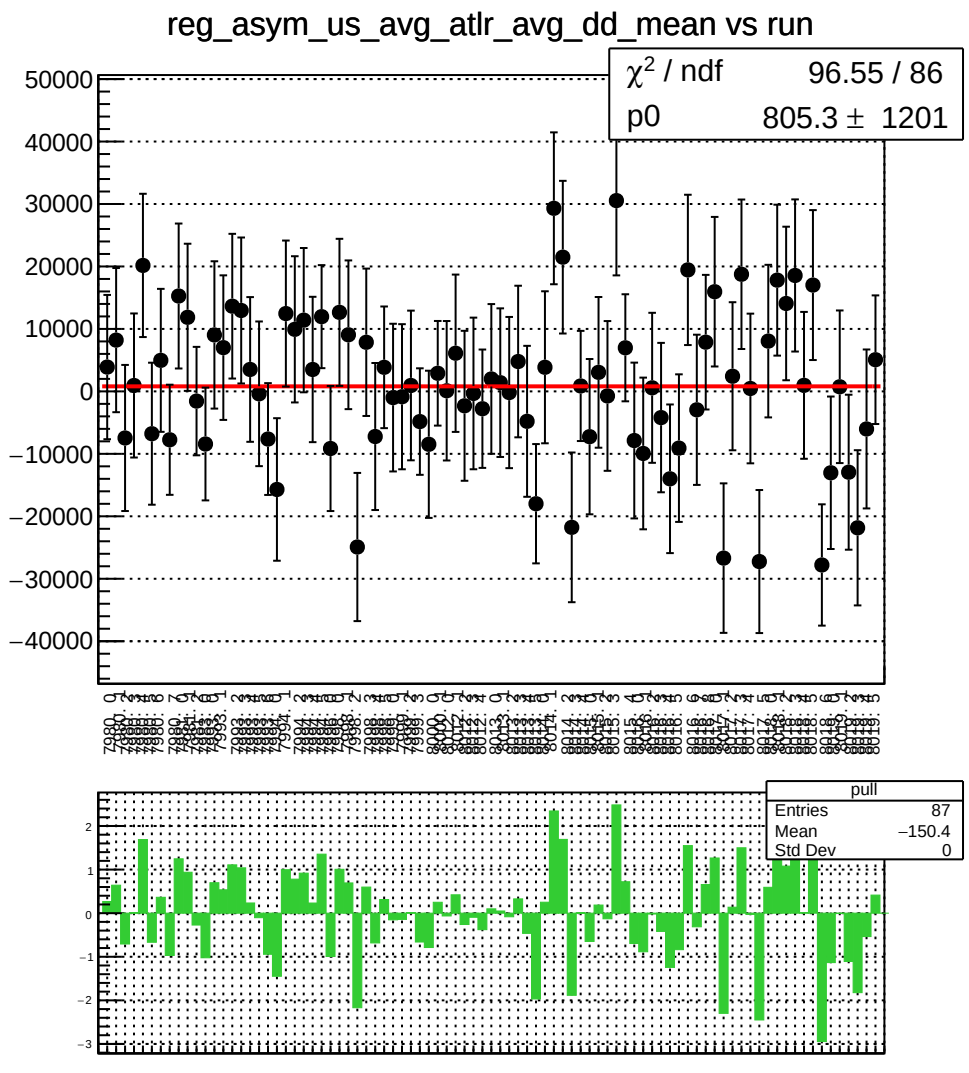

pull1D
Entries 87
Mean 0.0166
Std Dev 1.058

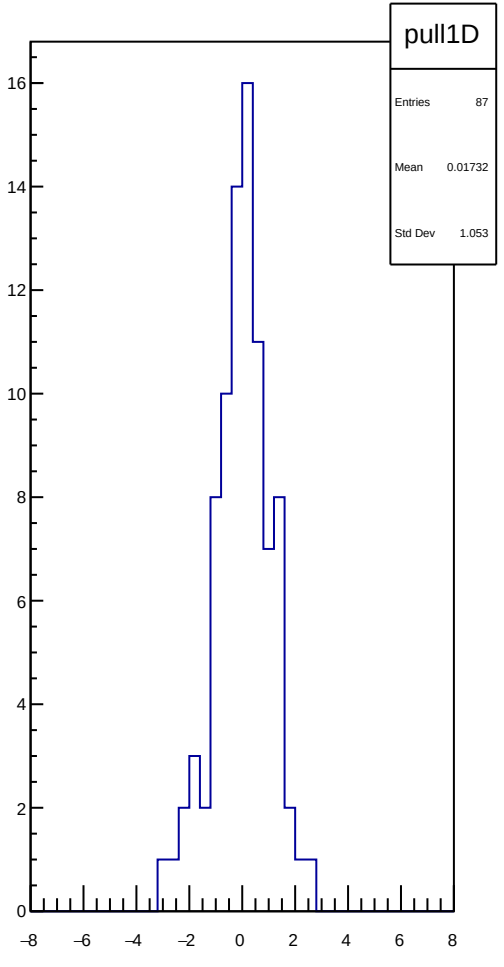

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.361e+05 / 86
p0 295.1 ± 0.2315
1600
1400
1200
1000
800
600
400
200

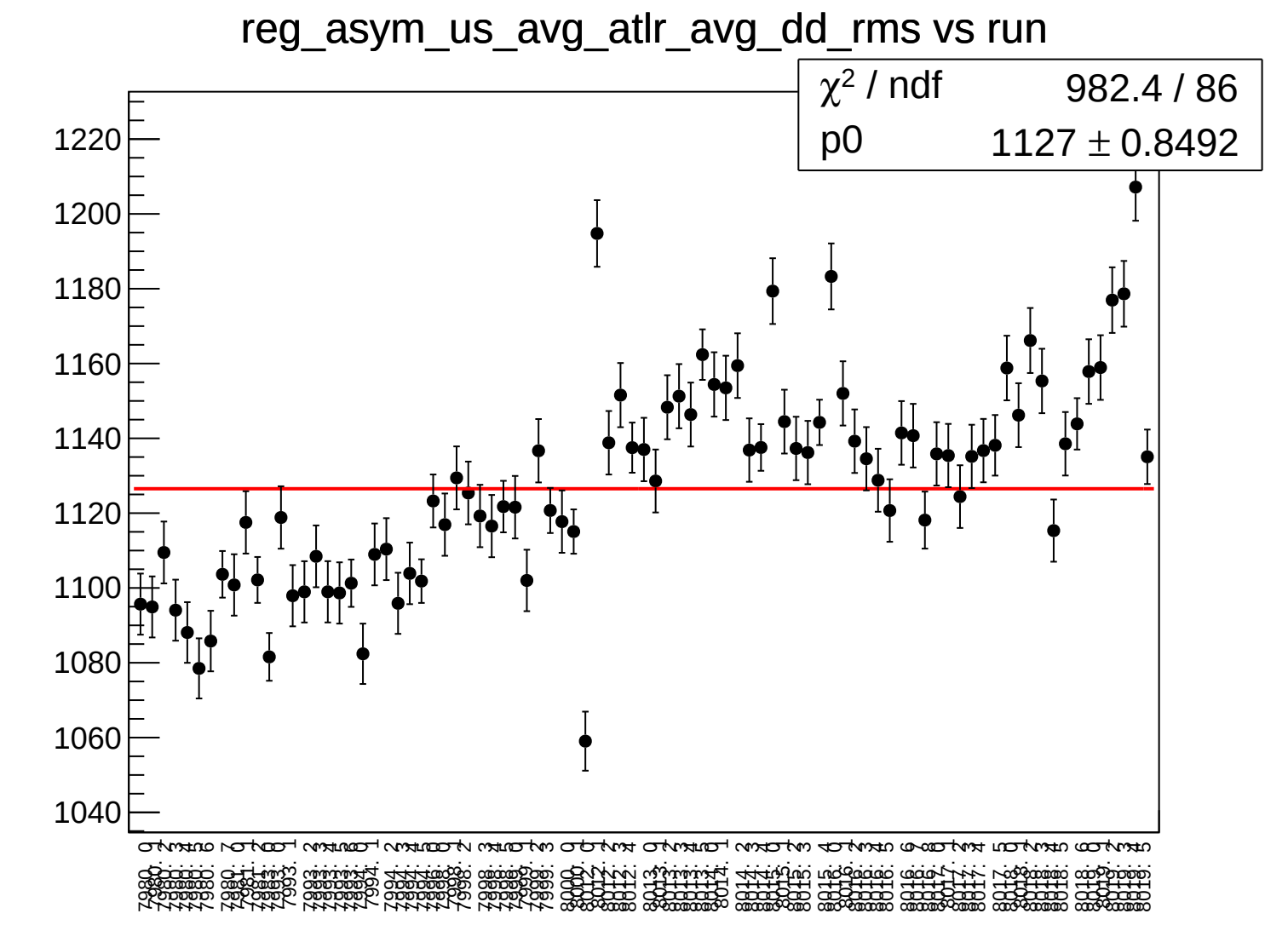

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.16 / 86
p0 −7.301e−13 ± 4.02e−13
pull
Entries 87
Mean 52.06
Std Dev 24.73

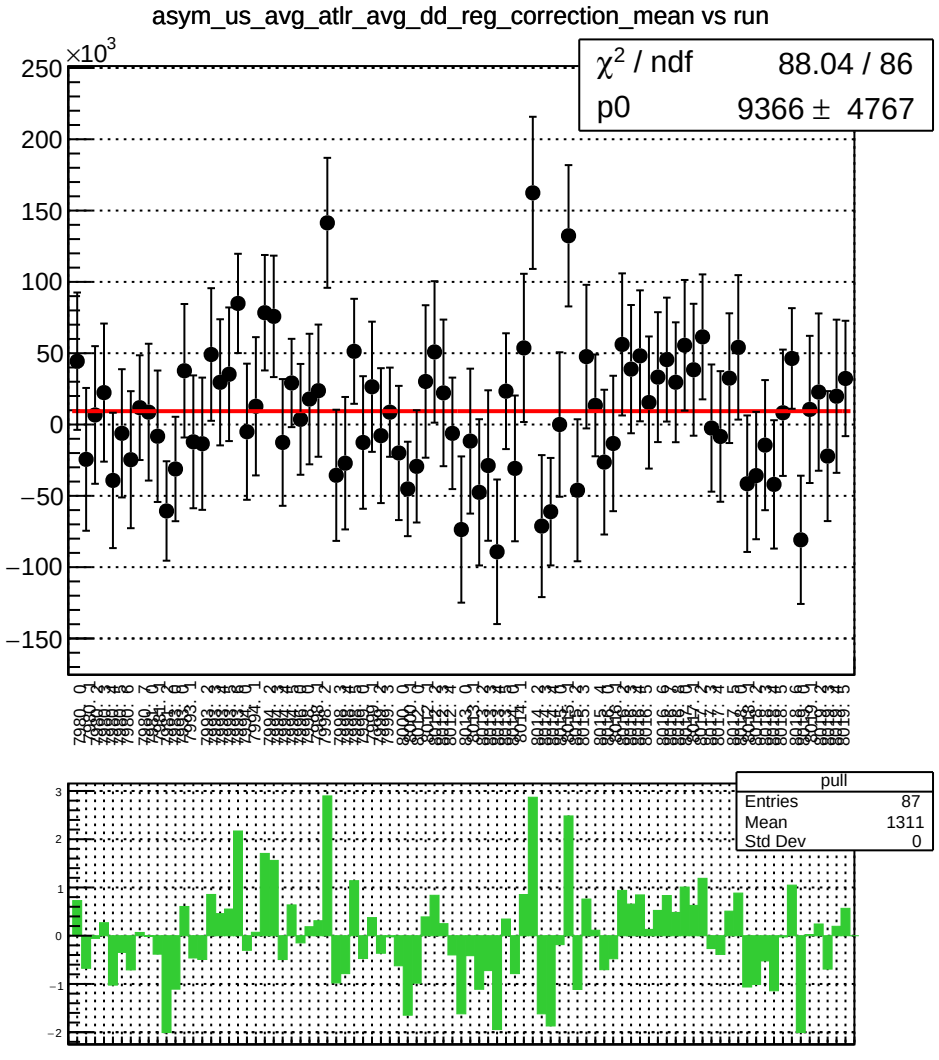

pull1D
Entries 87
Mean −0.07907
Std Dev 0.992

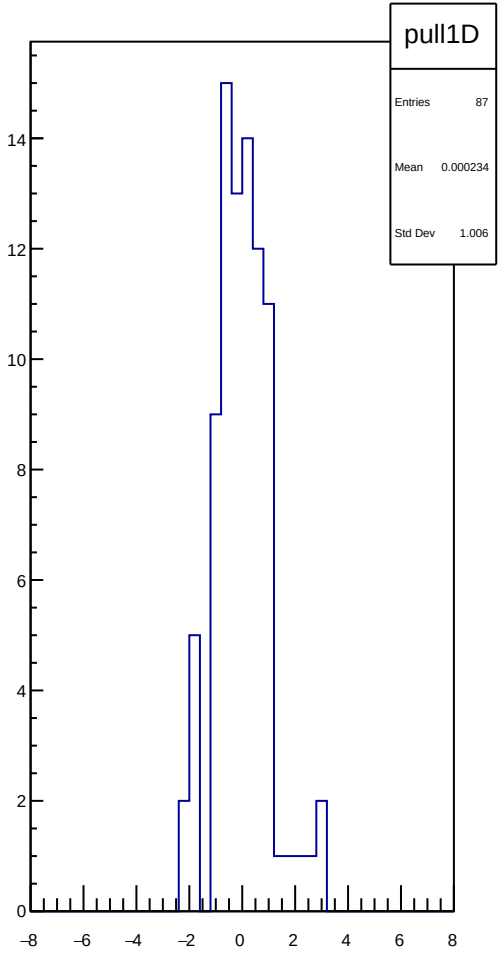

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.12e+06 / 86
p0 2.276e−10 ± 2.843e−13
3
2.5
2
1.5
1
0.5

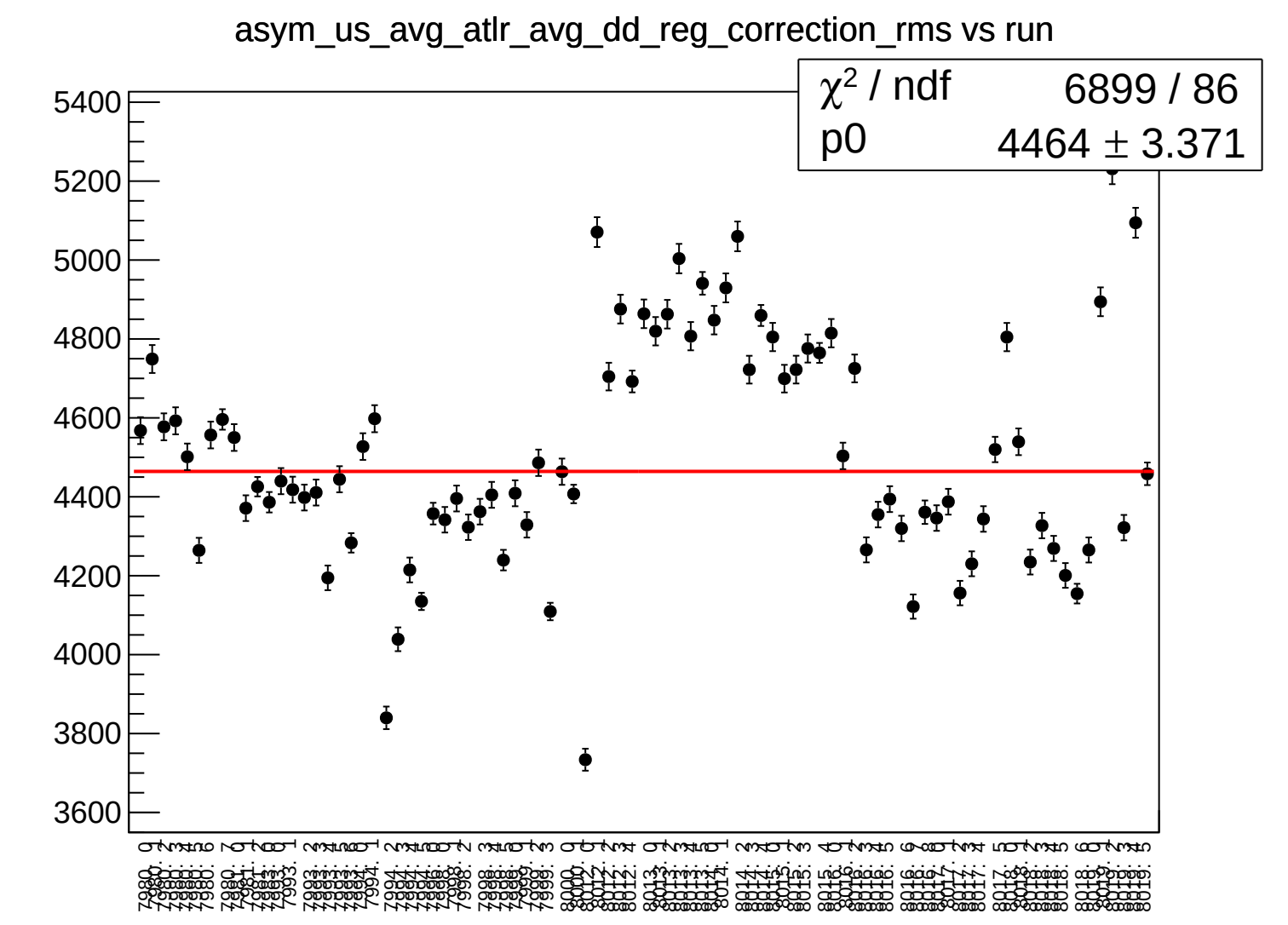

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 96.55 / 86
p0 805.3 ± 1201
pull
Entries 87
Mean −150.4
Std Dev 0

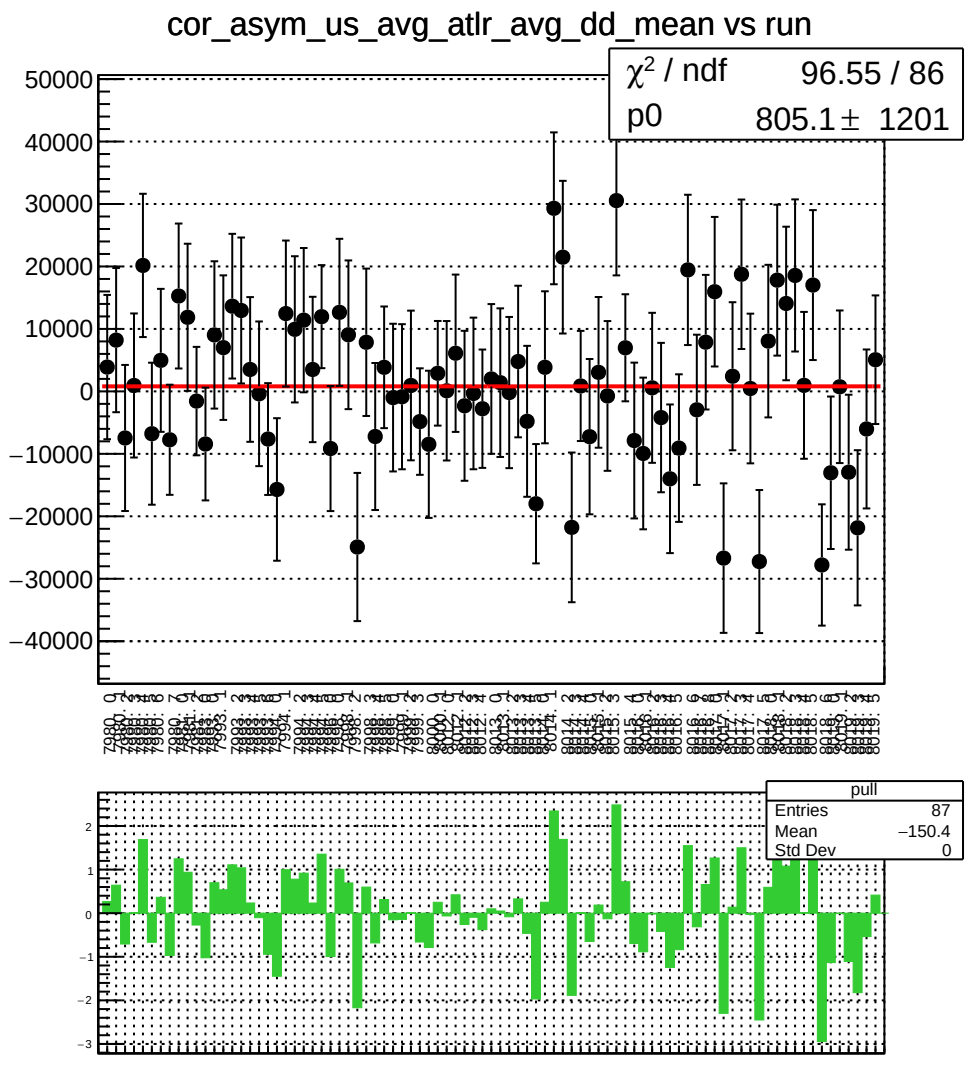

pull1D
Entries 87
Mean 0.01732
Std Dev 1.053

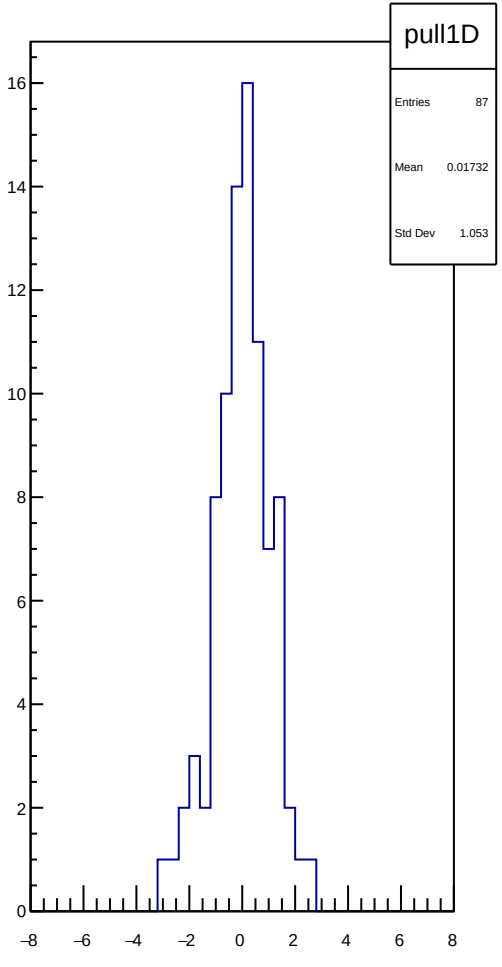

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 982.4 / 86
p0 1127 ± 0.8492
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040

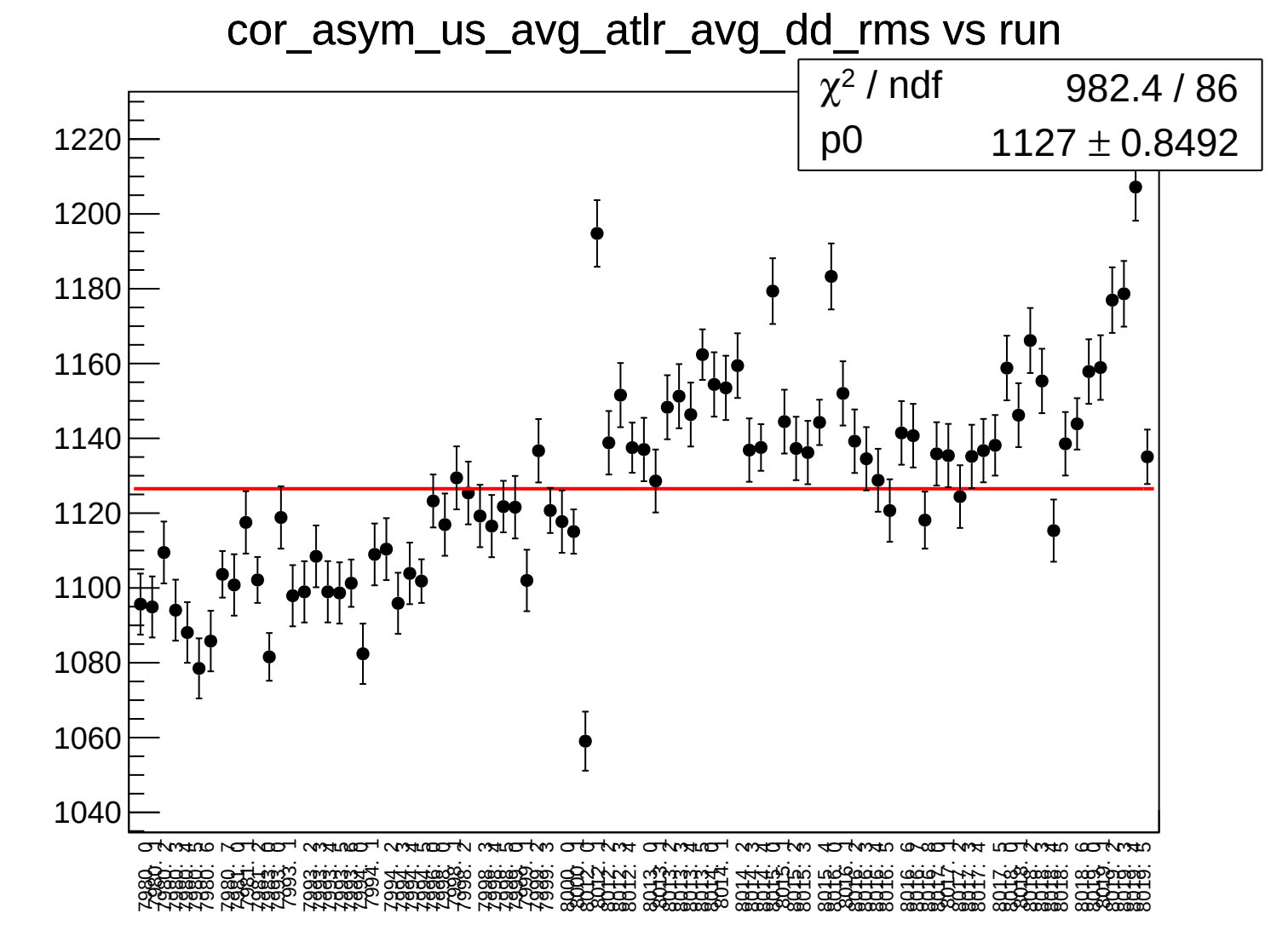

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
χ² / ndf 88.04 / 86
p0 9366 ± 4767
×10³
pull
Entries 87
Mean 1311
Std Dev 0

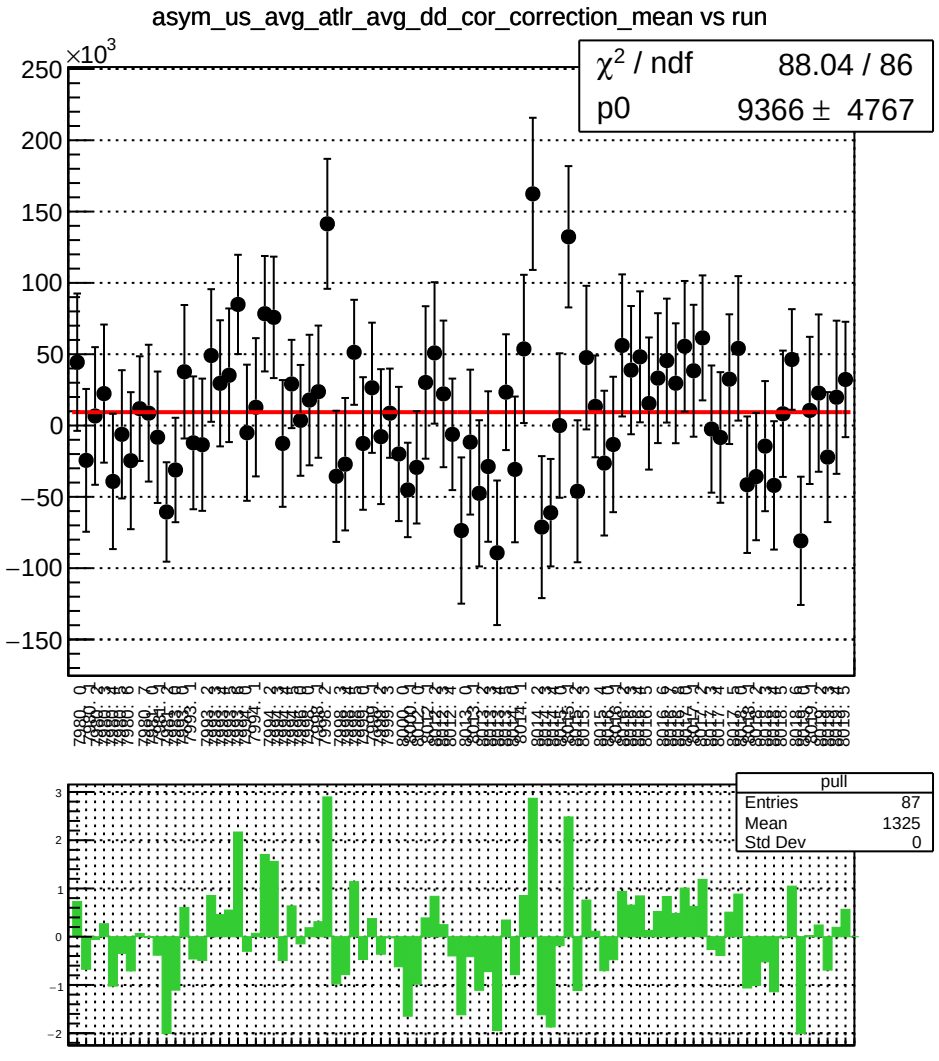

pull1D
Entries 87
Mean 0.000234
Std Dev 1.006

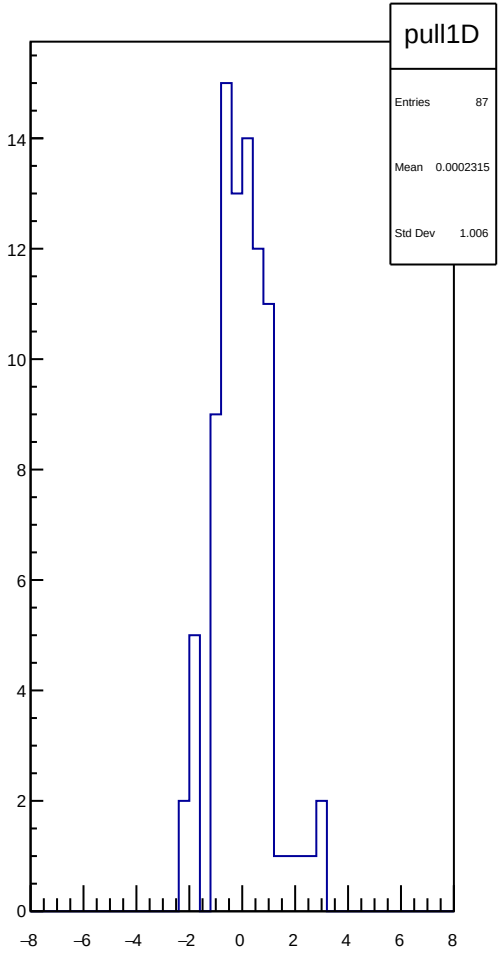

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 6899 / 86
p0 4464 ± 3.371
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

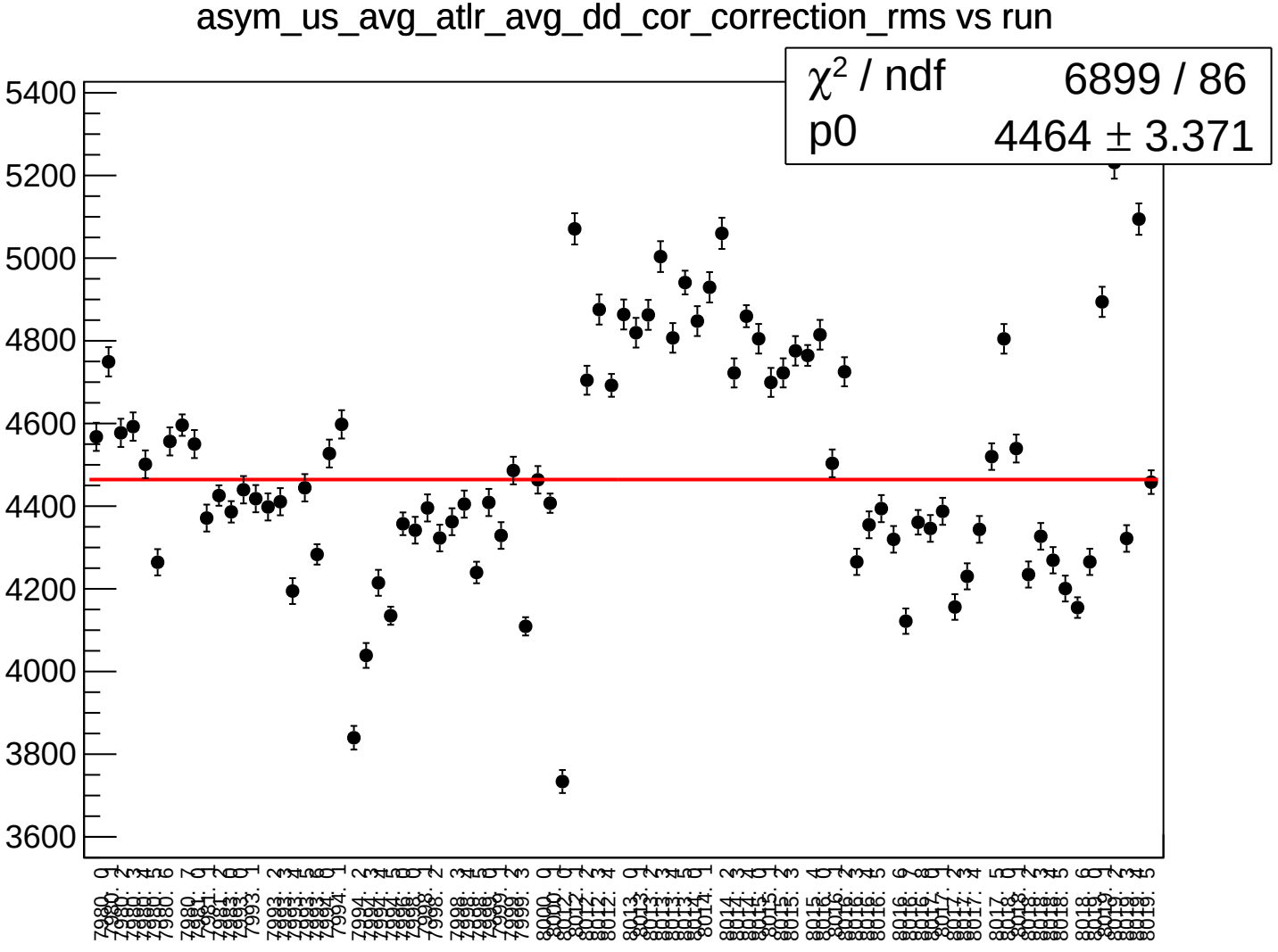

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 96.55 / 86
p0 805.1 ± 1201
pull
Entries 87
Mean −150.4
Std Dev 0

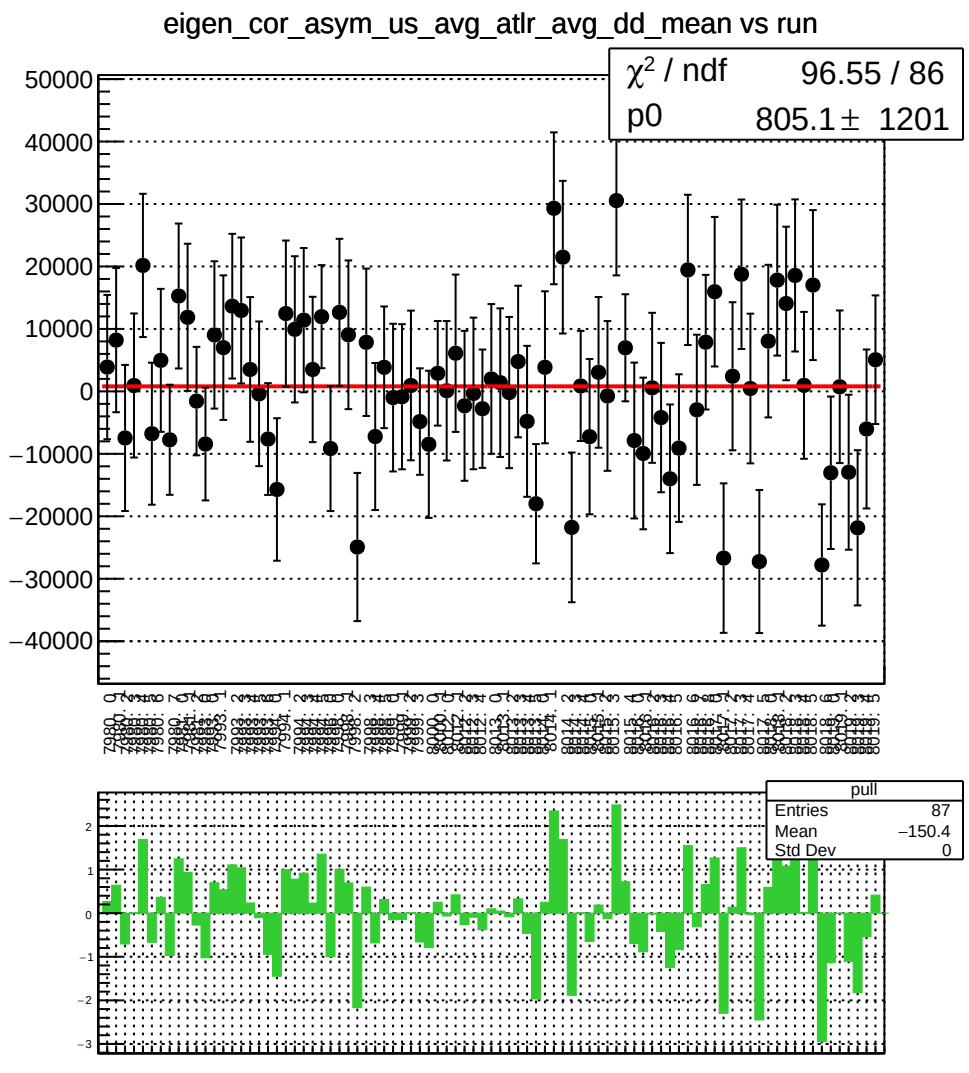

pull1D
Entries 87
Mean 0.01732
Std Dev 1.053

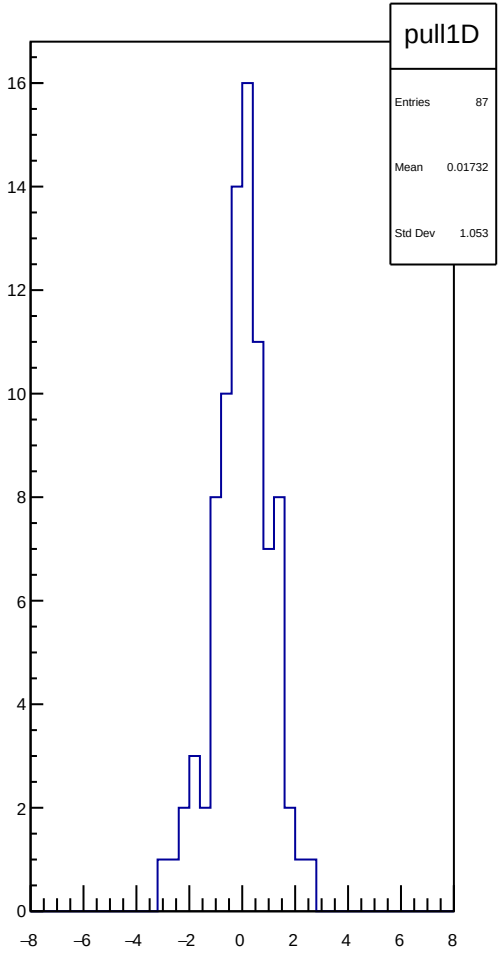

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 982.4 / 86
p0 1127 ± 0.8492
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040

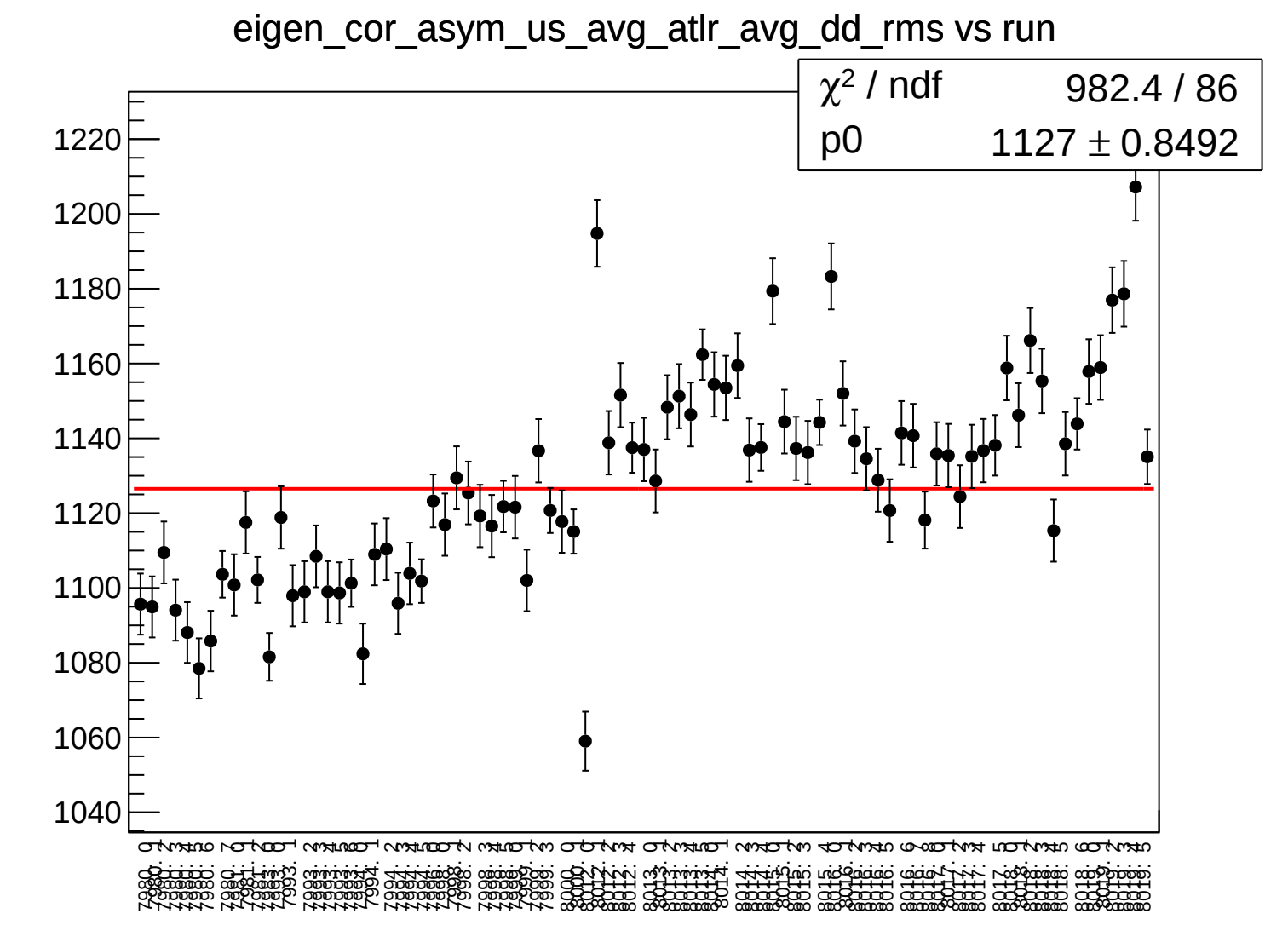

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
χ² / ndf 88.04 / 86
p0 9366 ± 4767
×10³
pull
Entries 87
Mean 1325
Std Dev 0

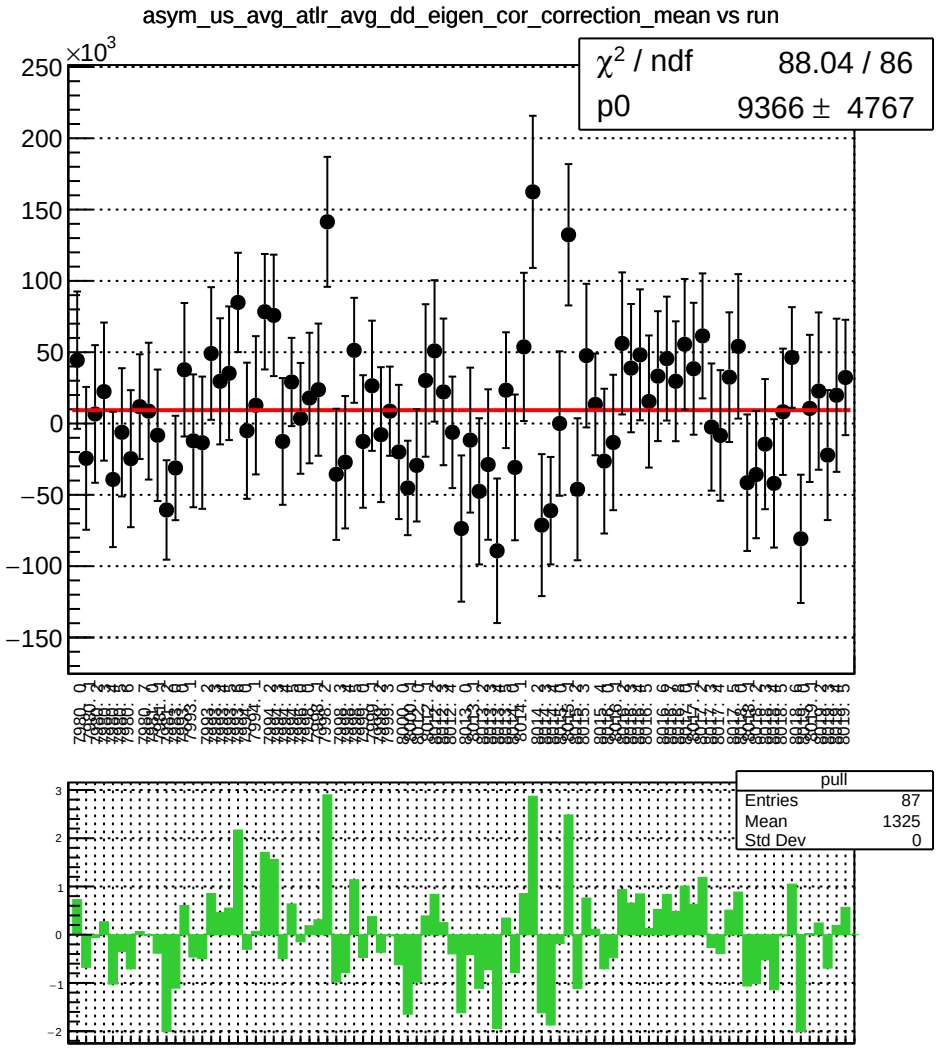

pull1D
Entries 87
Mean 0.0002315
Std Dev 1.006

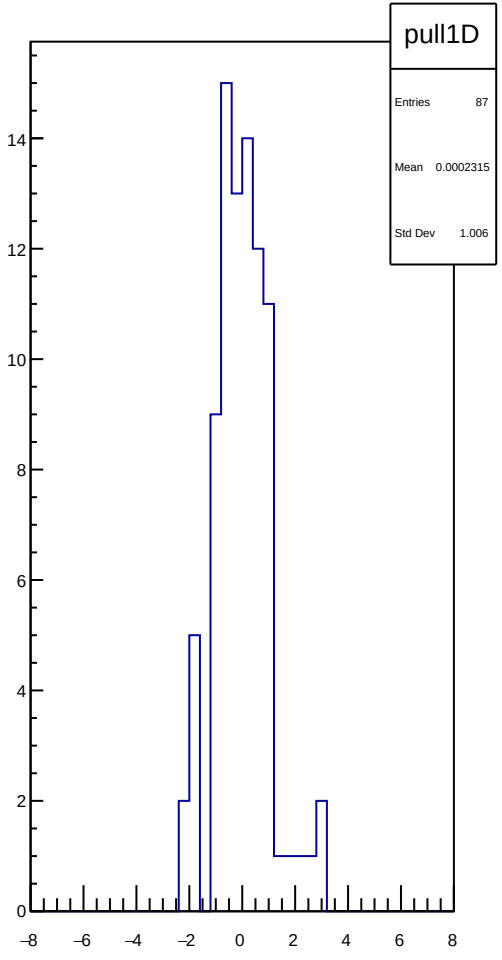

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 6899 / 86
p0 4464 ± 3.371
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

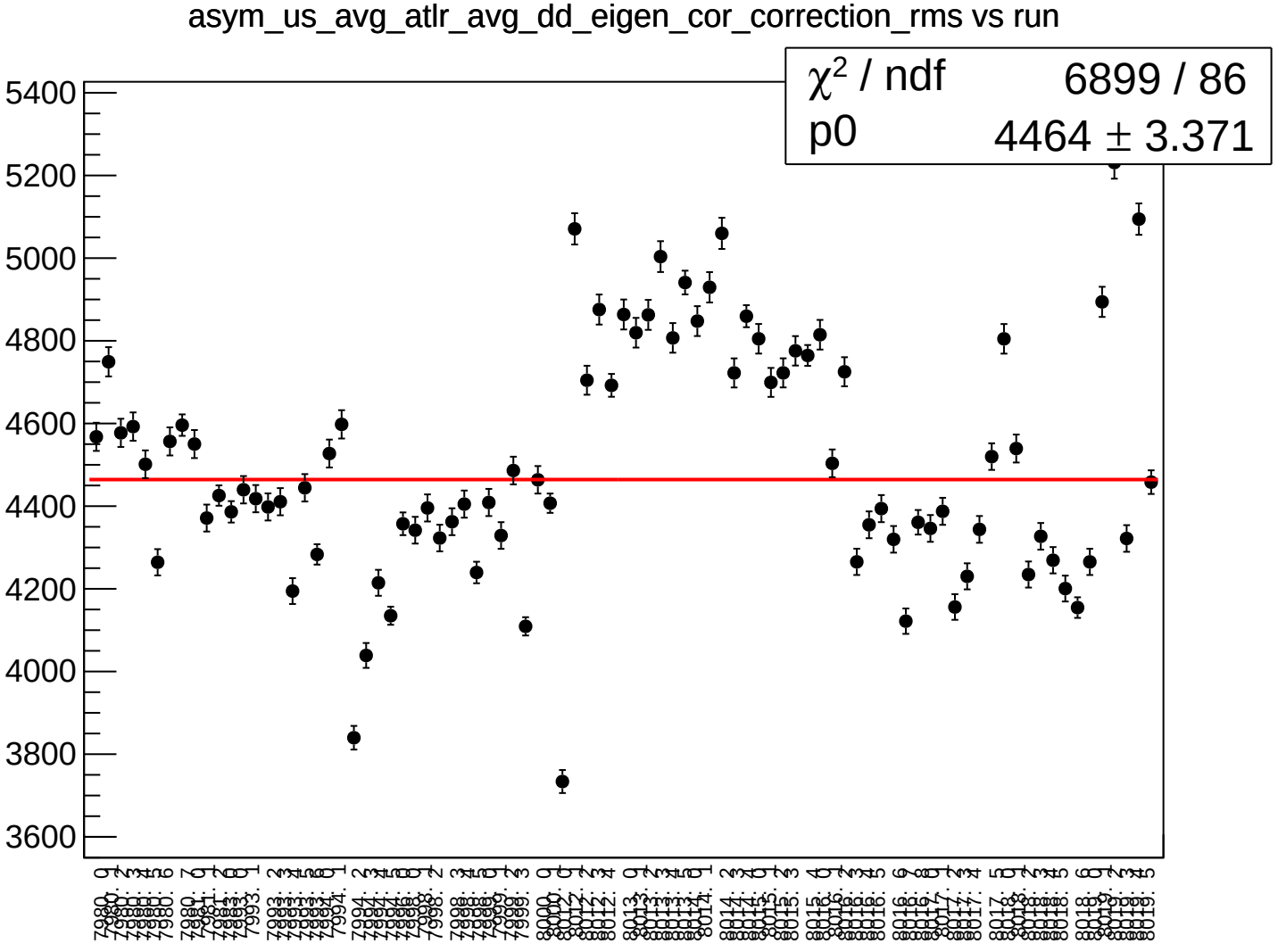

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 96.55 / 86
p0 805.1 ± 1201
pull
Entries 87
Mean −150.4
Std Dev 0

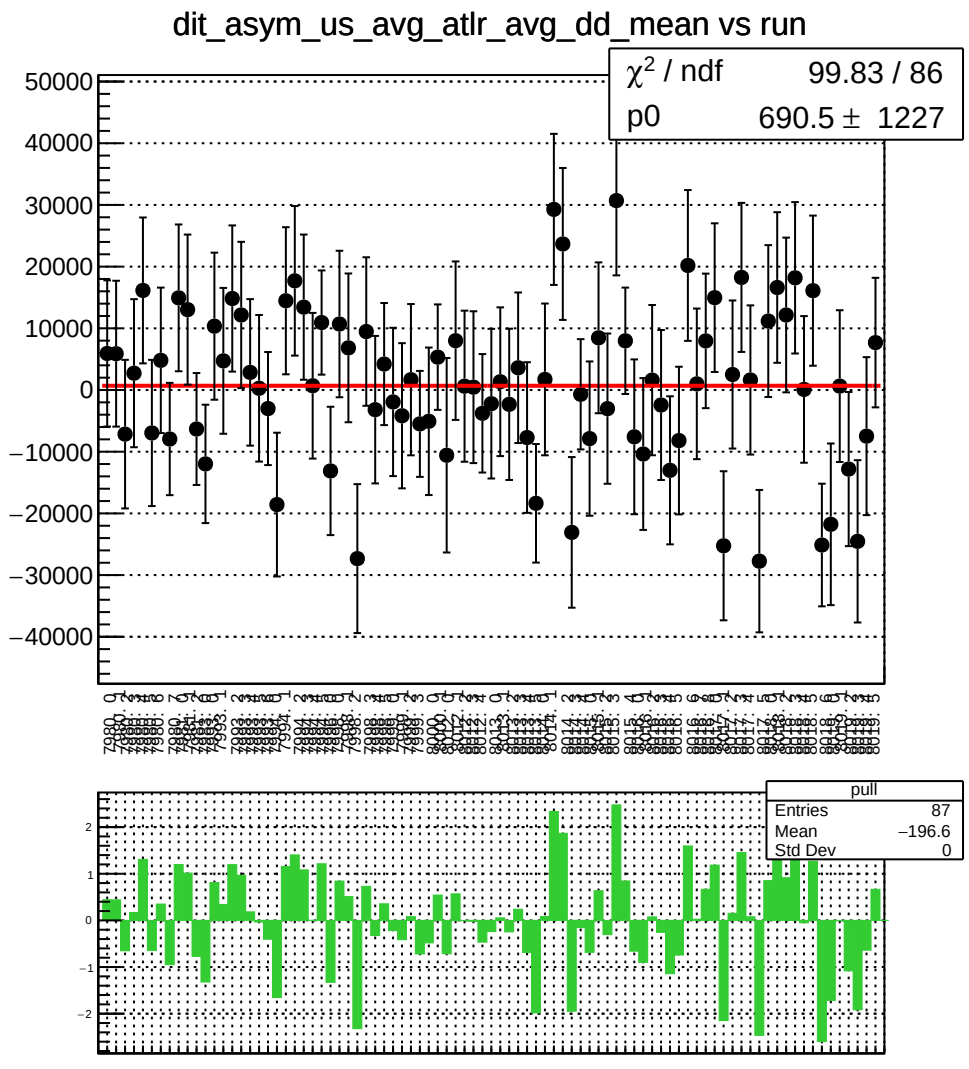

pull1D
Entries 87
Mean 0.01732
Std Dev 1.053

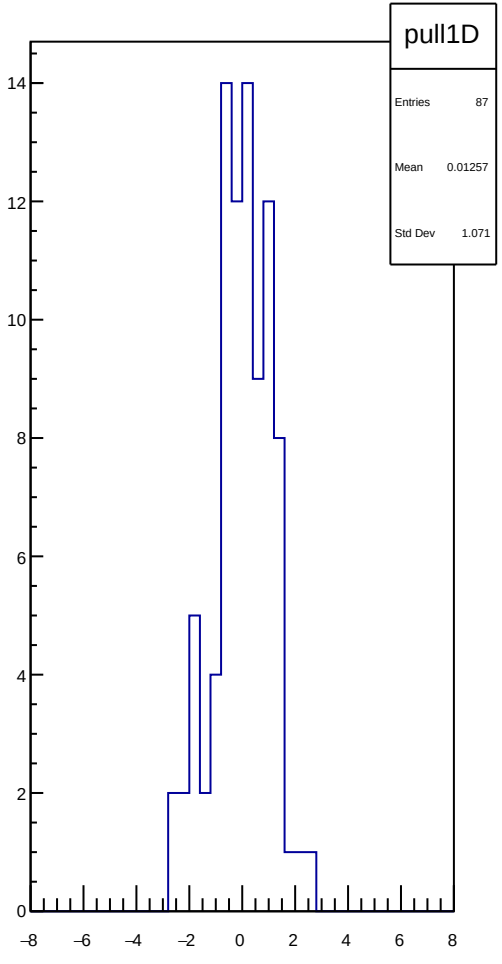

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 982.4 / 86
p0 1127 ± 0.8492
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040

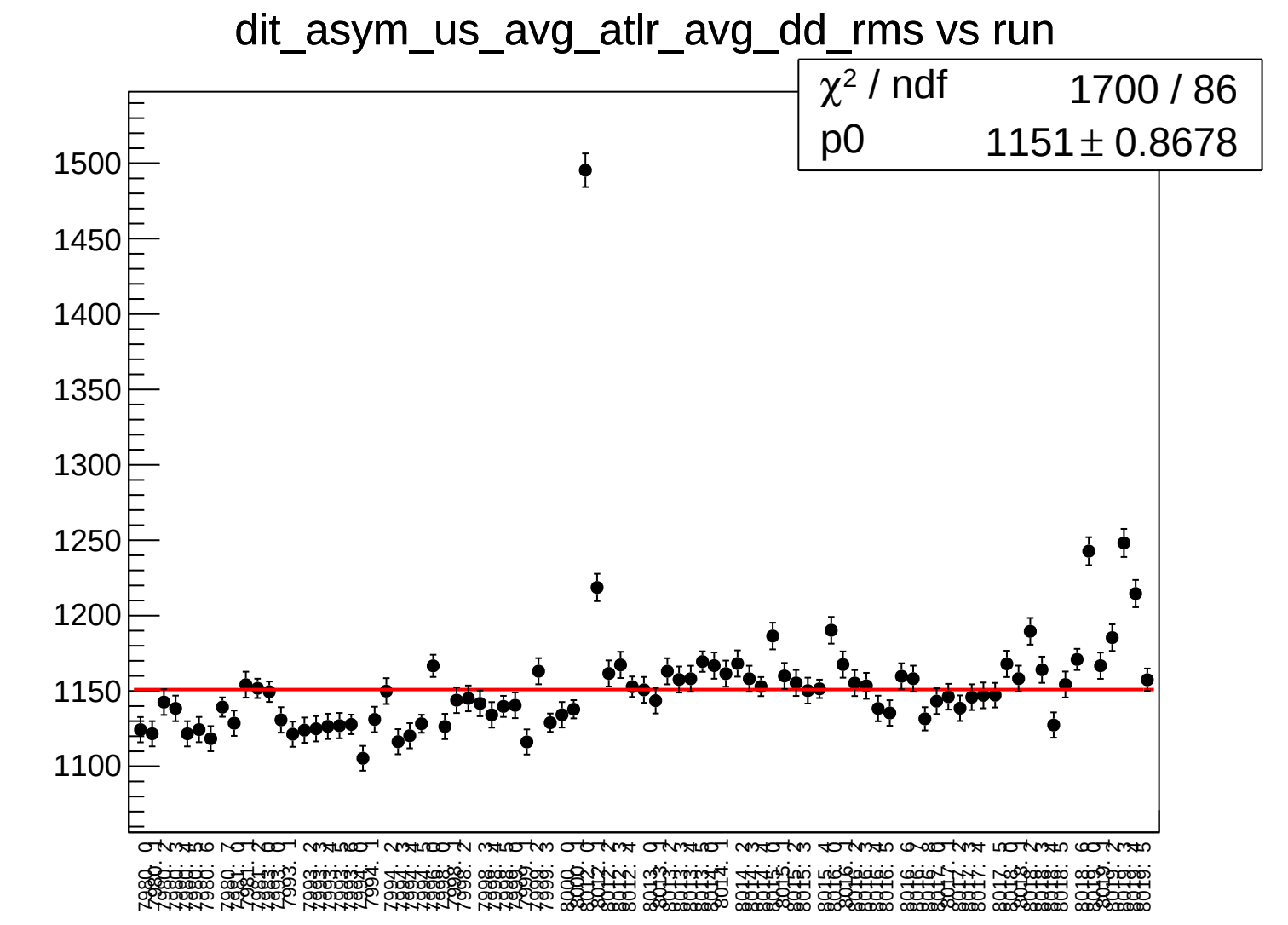

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.04 / 86
p0 9366 ± 4767
×10³
pull
Entries 87
Mean 1325
Std Dev 0

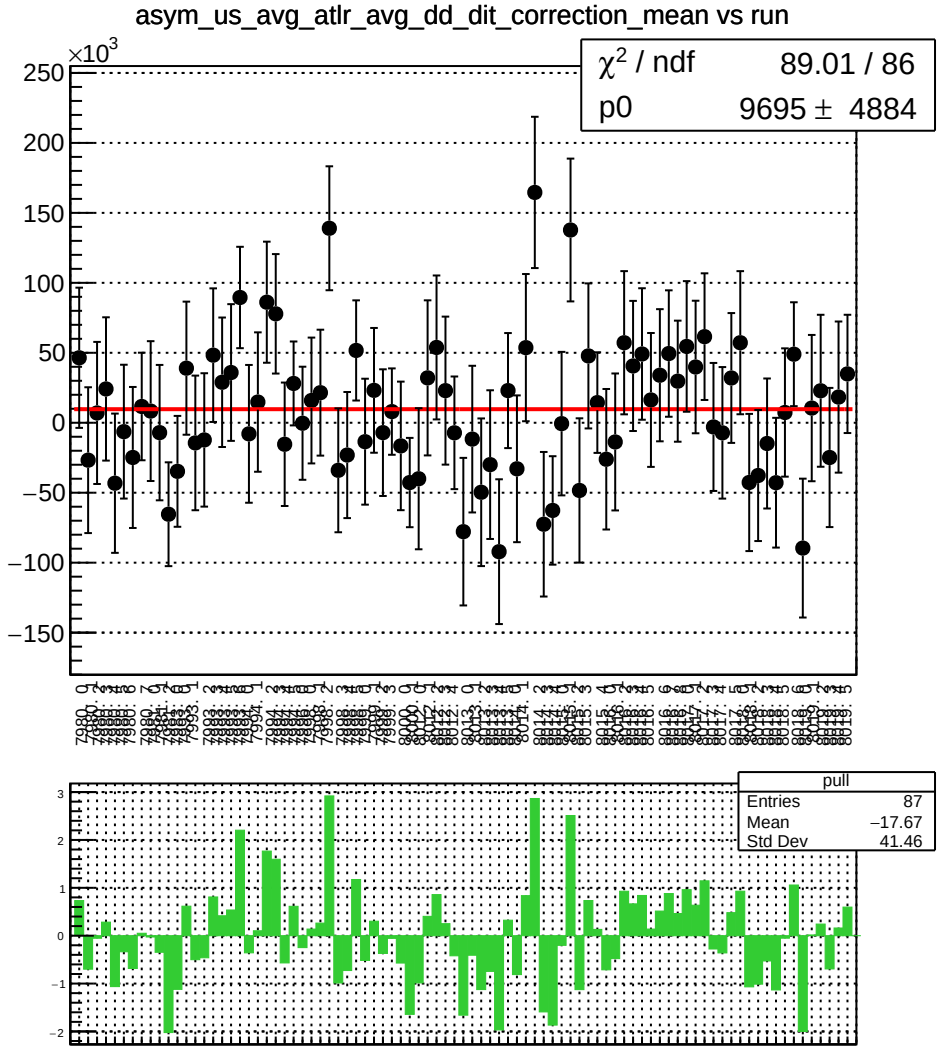

pull1D
Entries 87
Mean 0.0002315
Std Dev 1.006

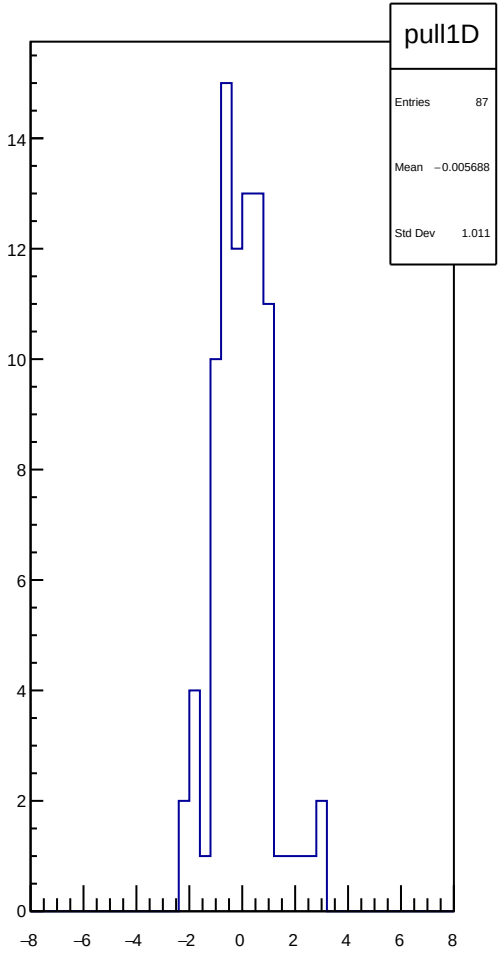

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6899 / 86
p0 4464 ± 3.371
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

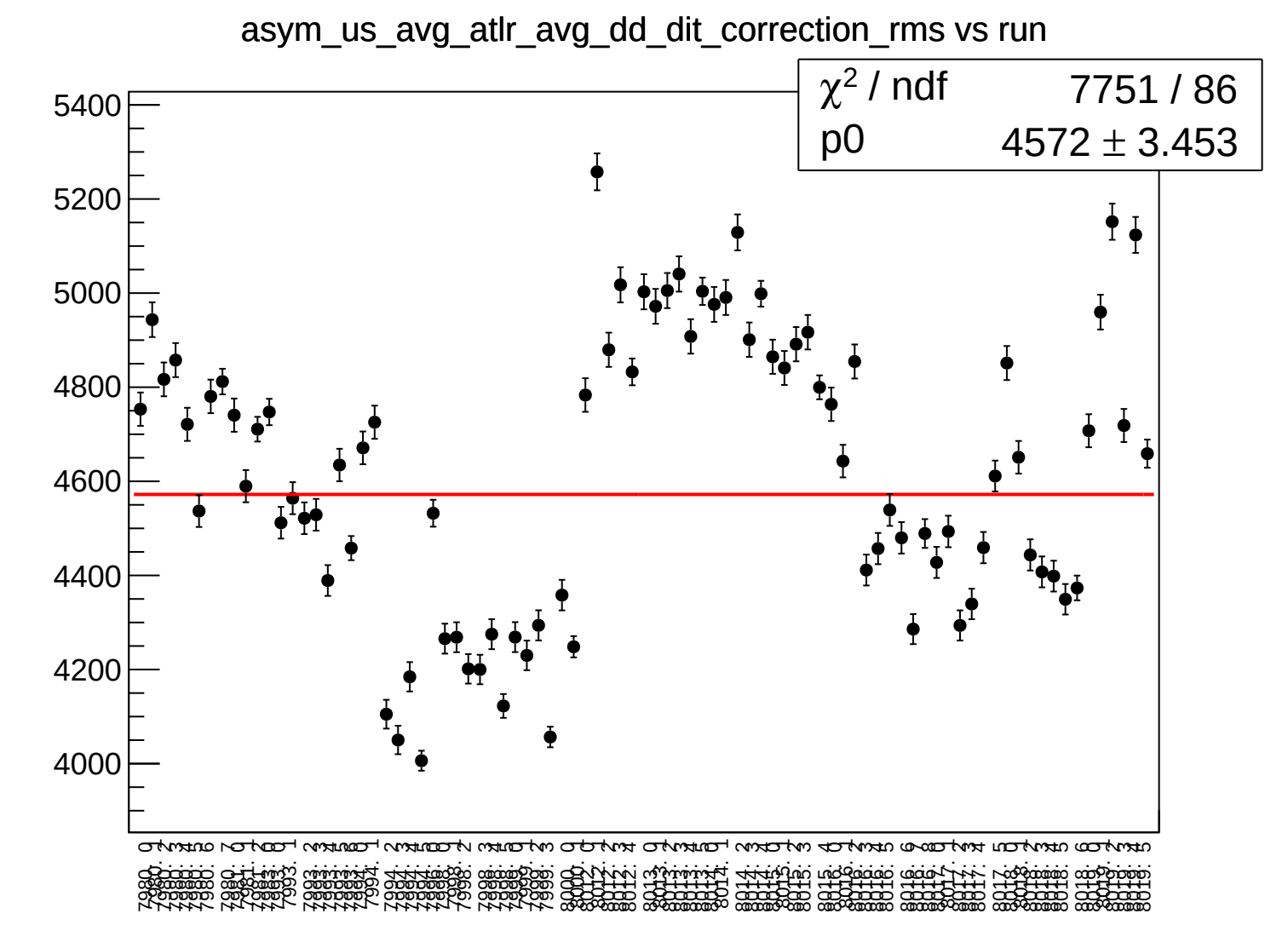

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 99.83 / 86
p0 690.5 ± 1227
pull
Entries 87
Mean −196.6
Std Dev 0

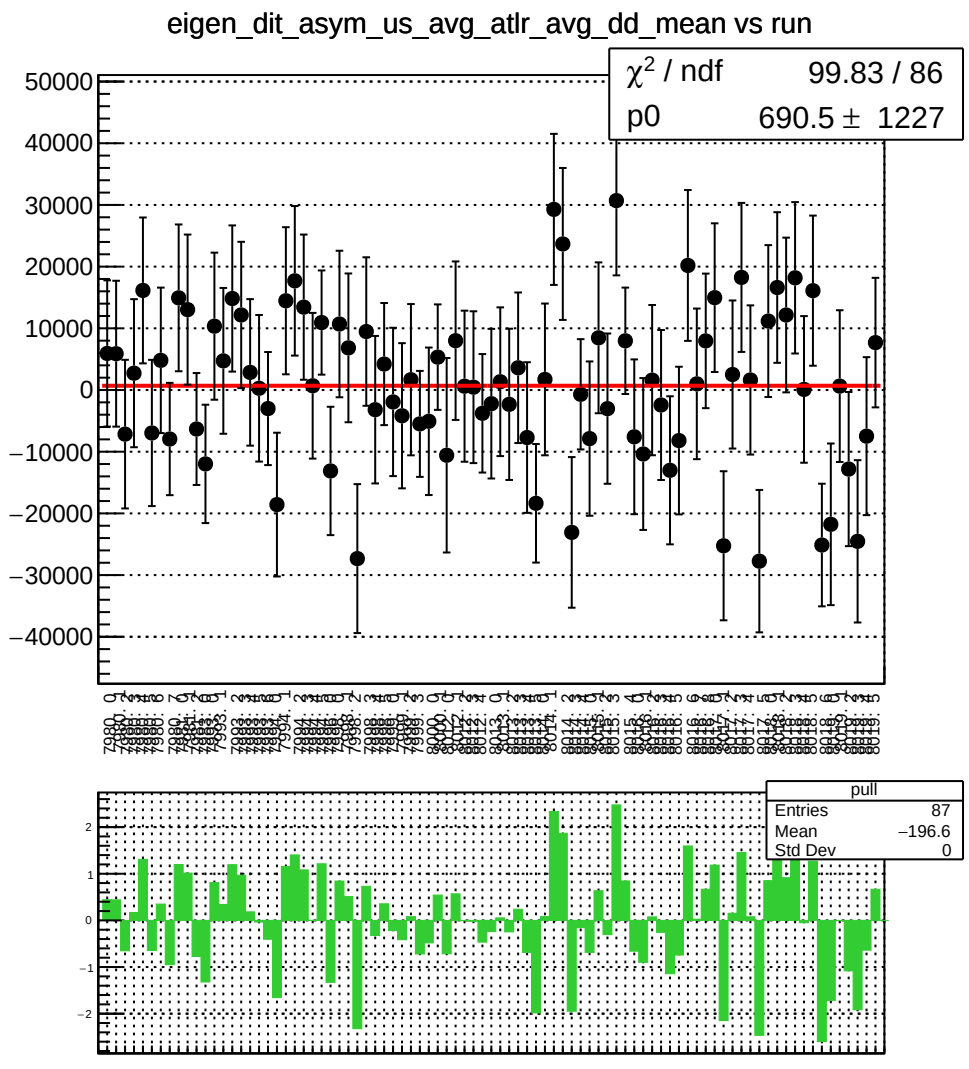

pull1D
Entries 87
Mean 0.01257
Std Dev 1.071

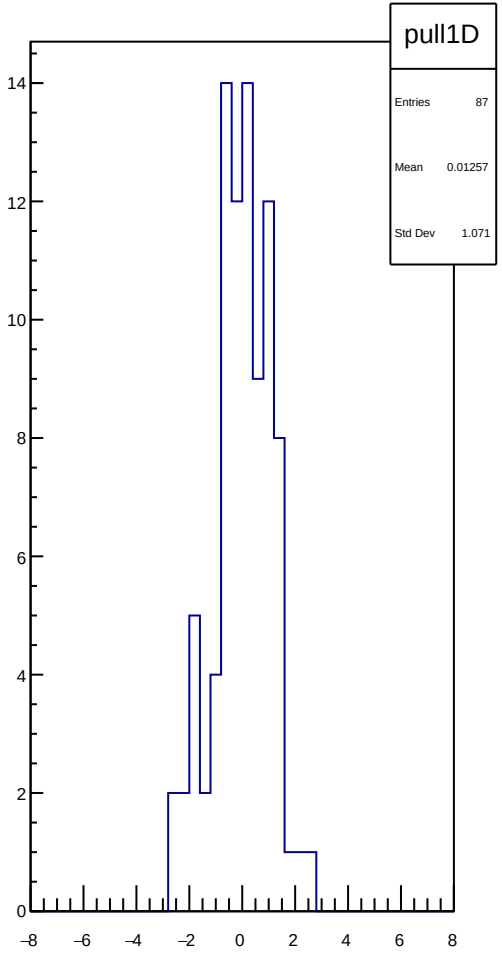

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1700 / 86
p0 1151 ± 0.8678
1500
1450
1400
1350
1300
1250
1200
1150
1100

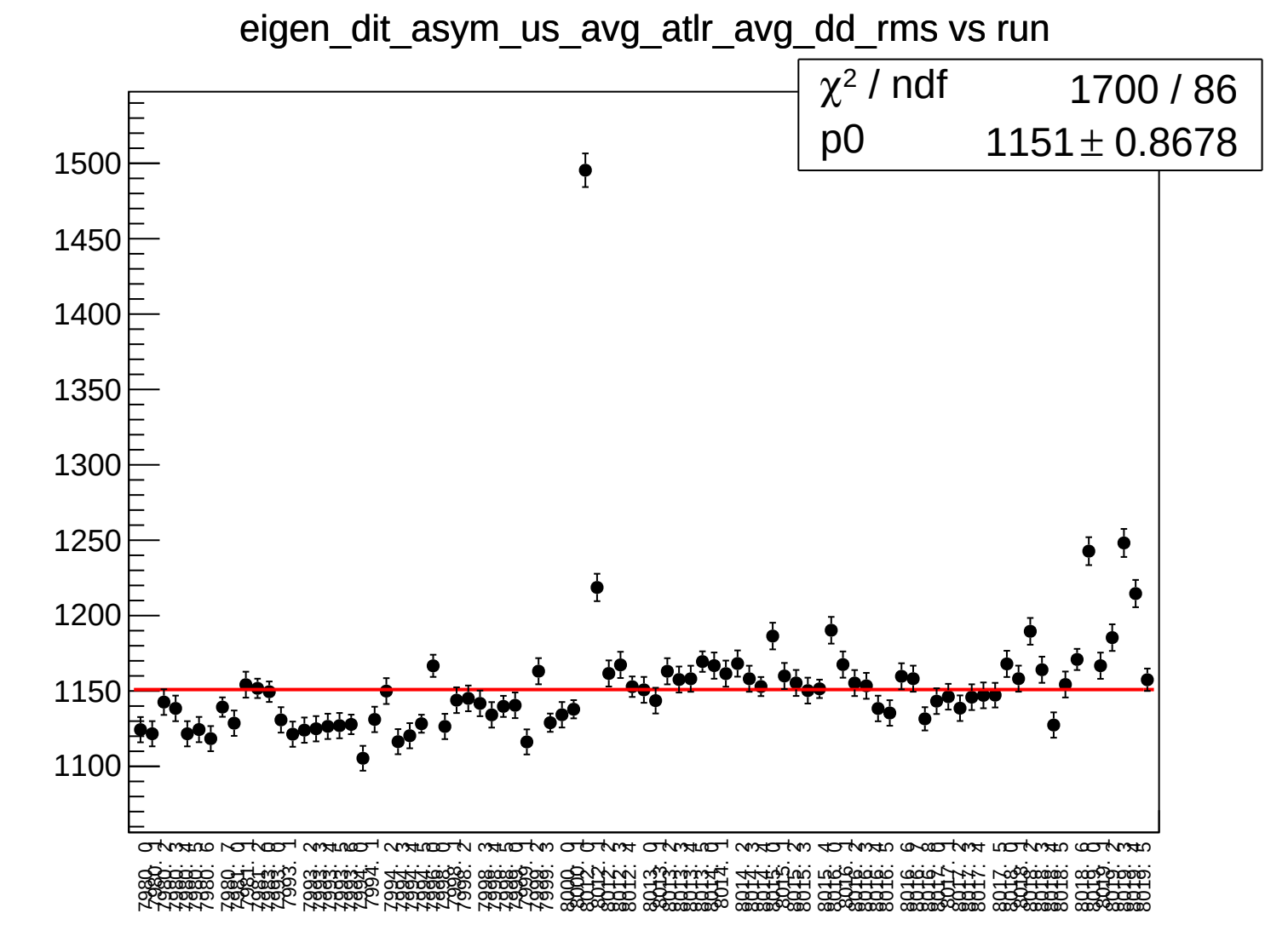

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 89.01 / 86
p0 9695 ± 4884
pull
Entries 87
Mean −17.67
Std Dev 41.46

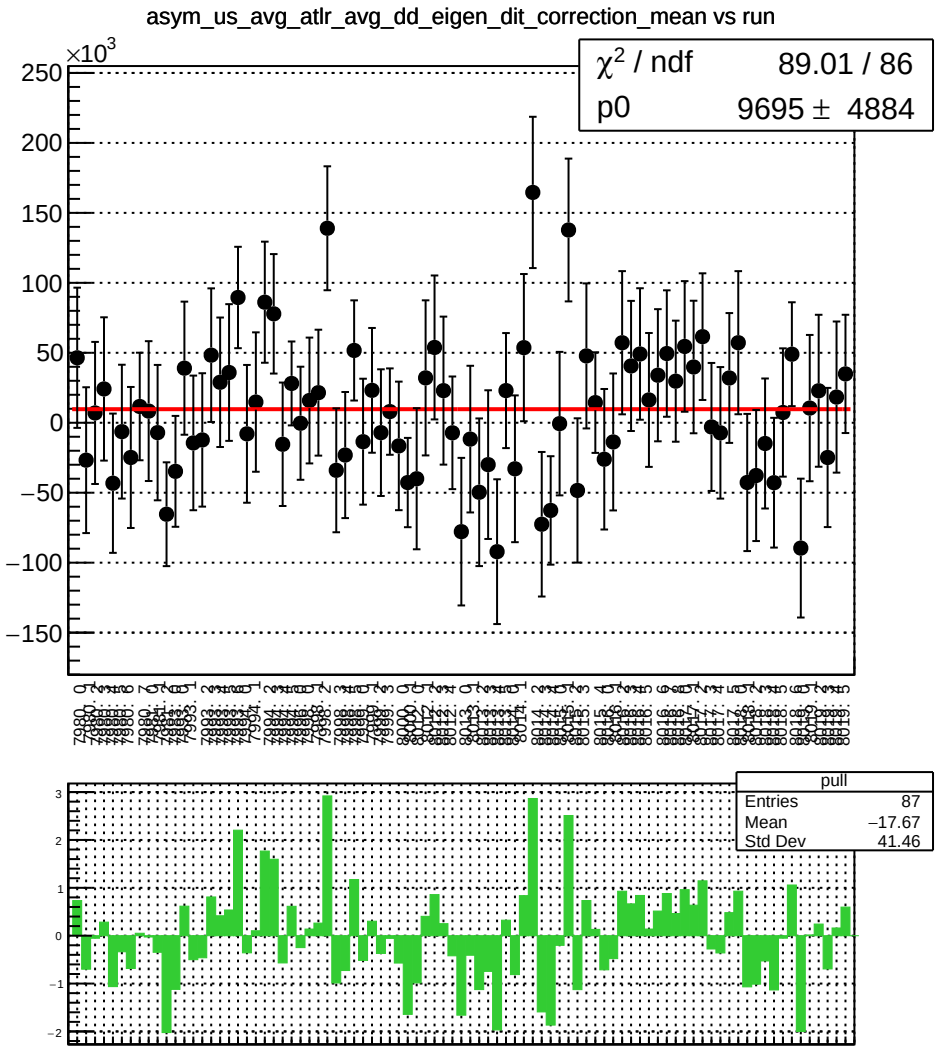

pull1D
Entries 87
Mean −0.005688
Std Dev 1.011

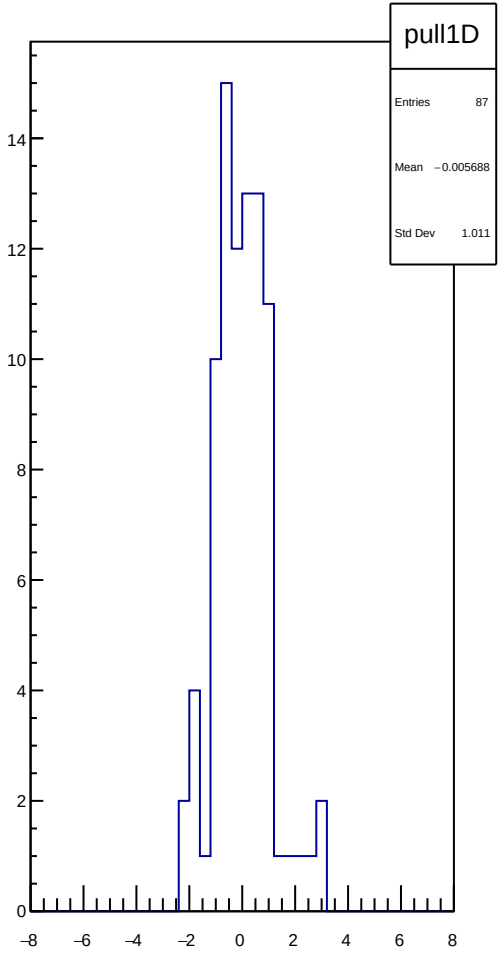

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 7751 / 86
p0 4572 ± 3.453
5400
5200
5000
4800
4600
4400
4200
4000

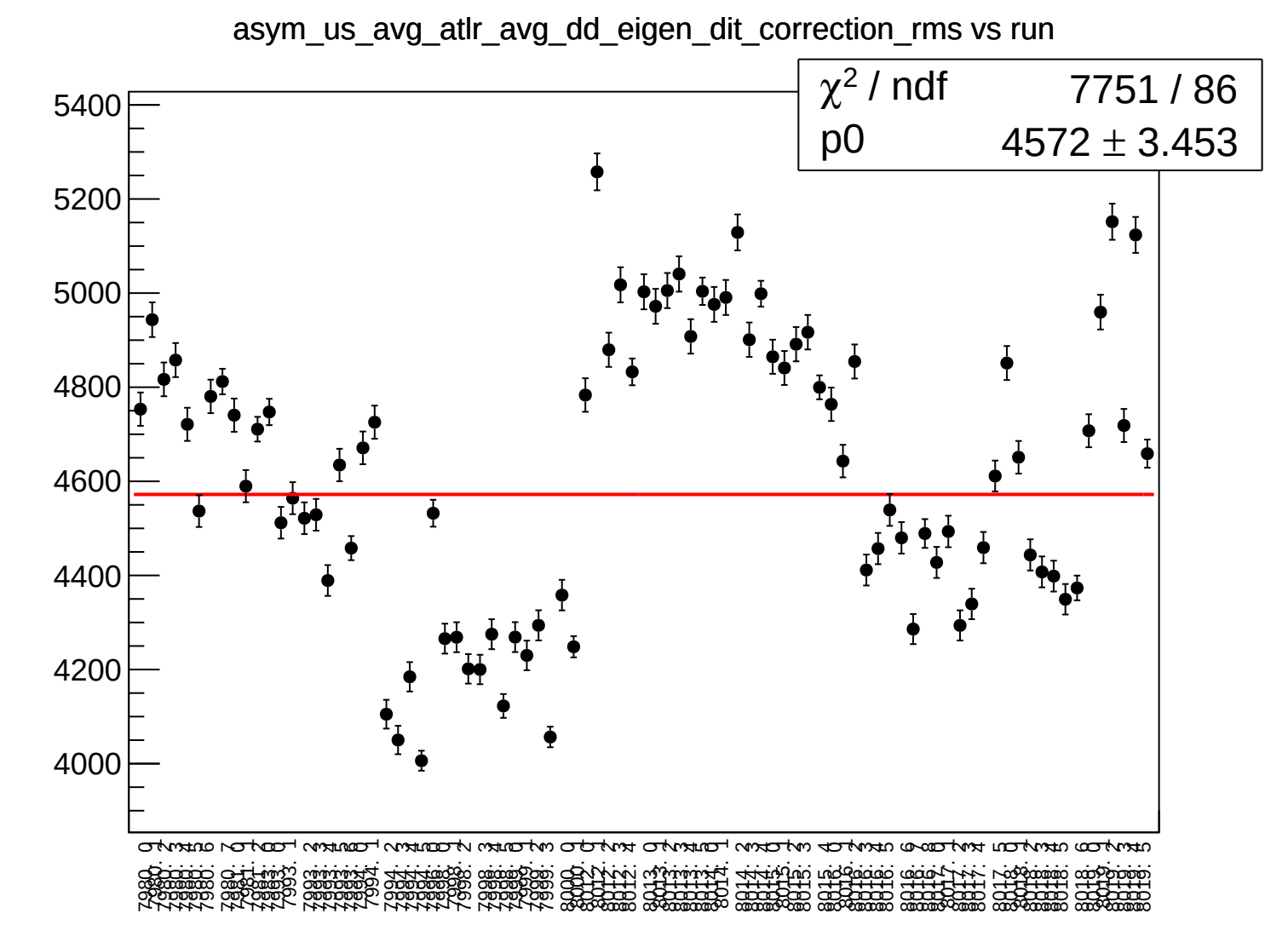

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 99.83 / 86
p0 690.5 ± 1227
pull
Entries 87
Mean −196.6
Std Dev 0

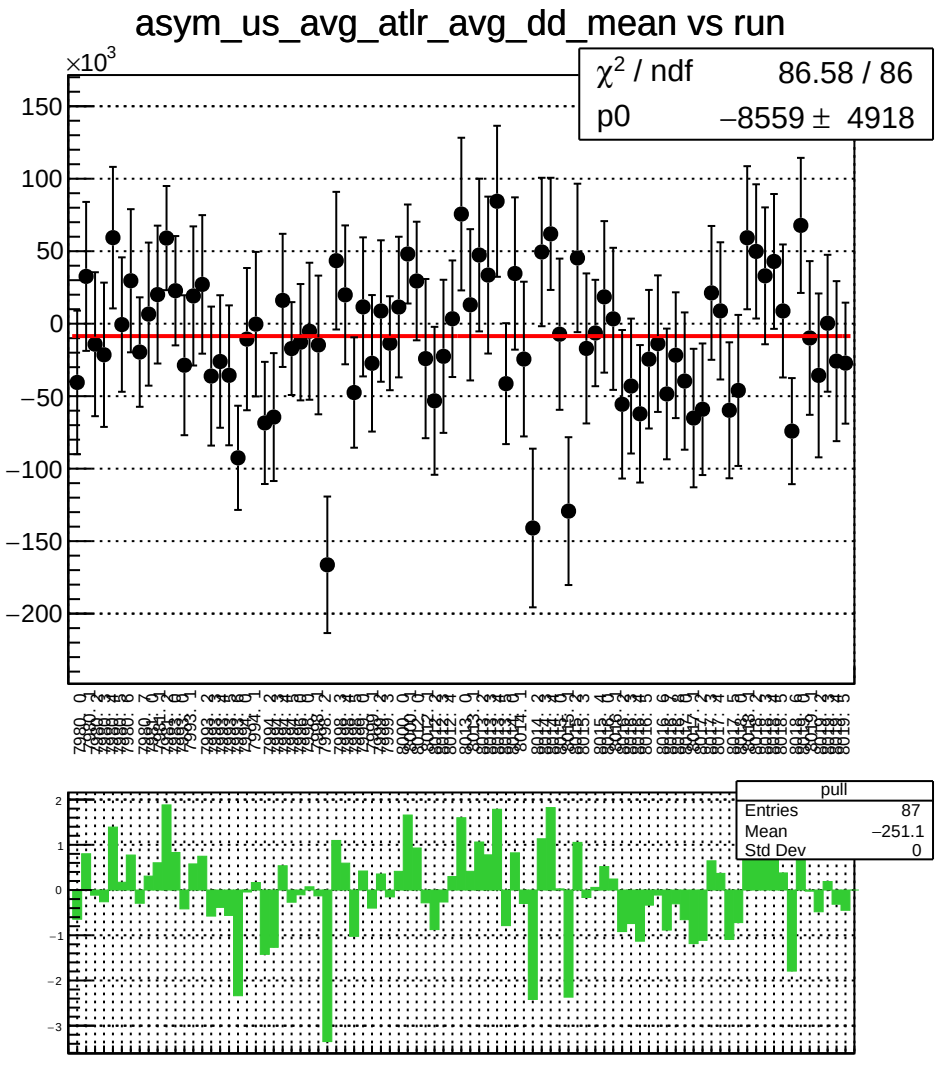

pull1D
Entries 87
Mean 0.01257
Std Dev 1.071

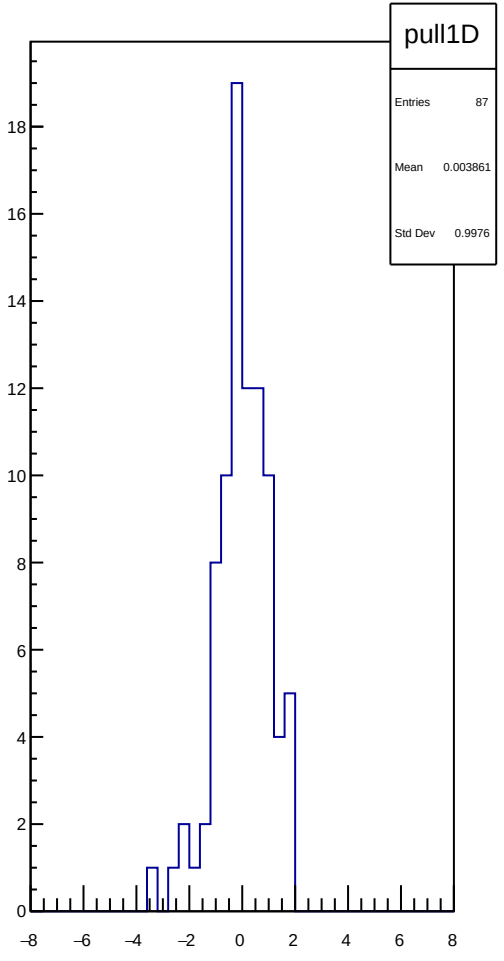

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1700 / 86
p0 1151 ± 0.8678
1500
1450
1400
1350
1300
1250
1200
1150
1100

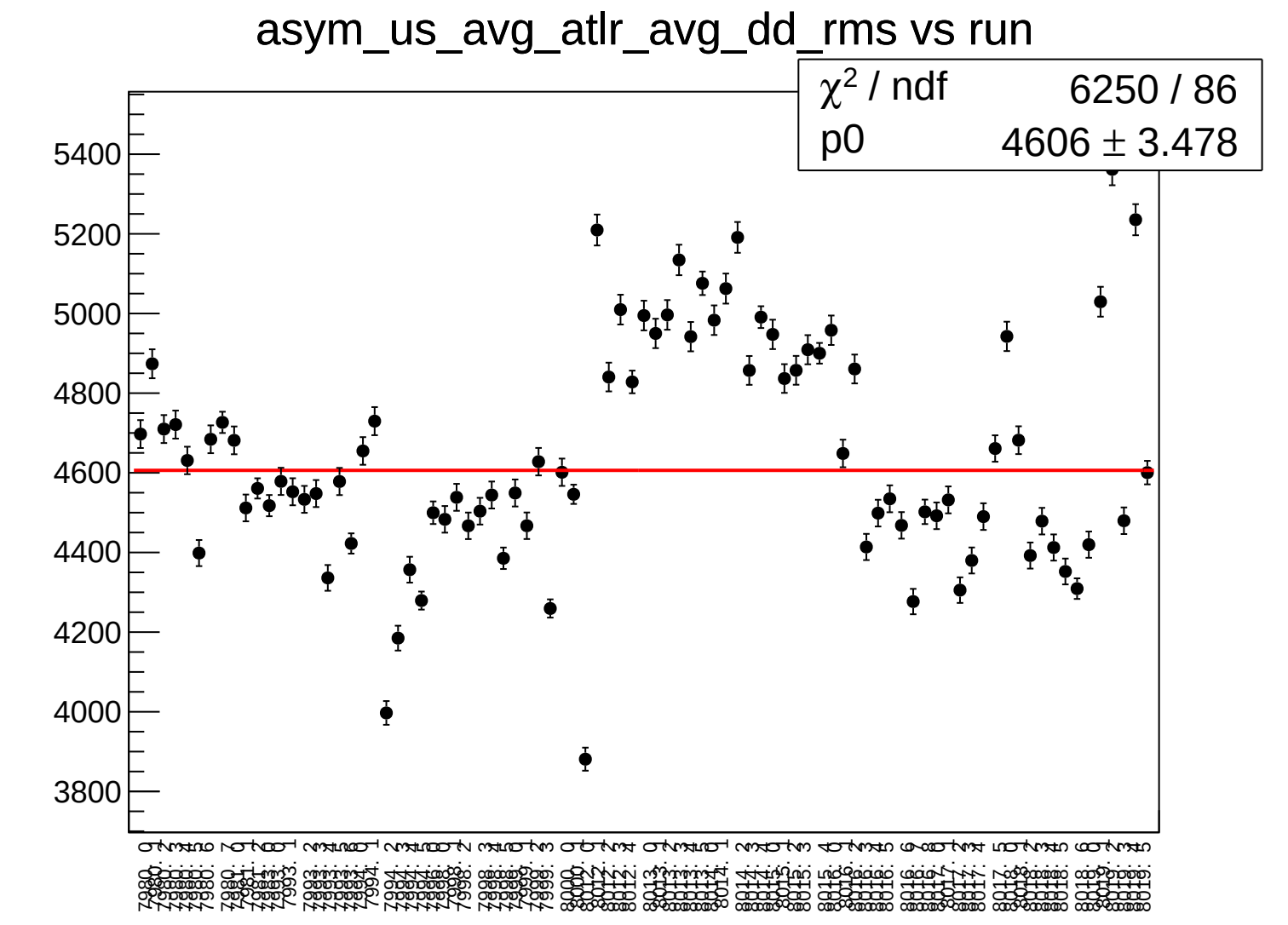

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 89.01 / 86
p0 9695 ± 4884
pull
Entries 87
Mean −17.67
Std Dev 41.46

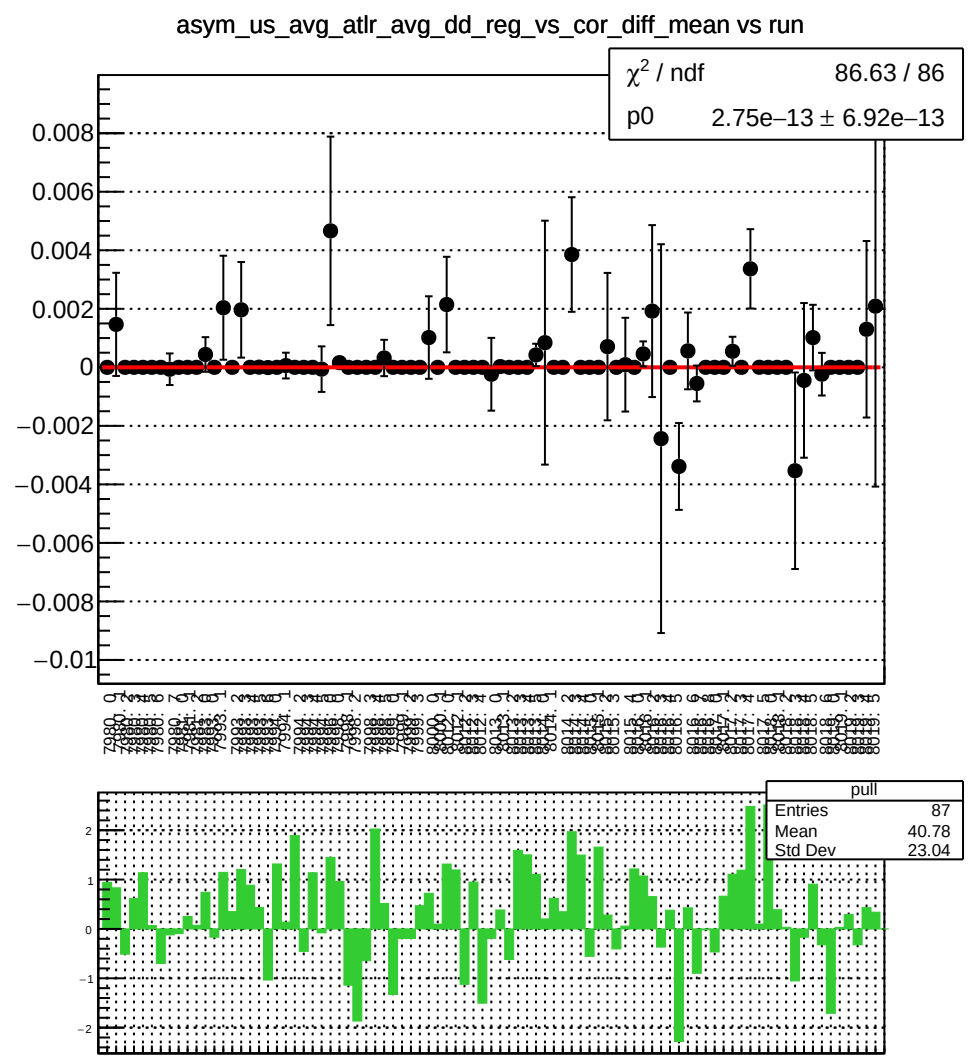

pull1D
Entries 87
Mean −0.005688
Std Dev 1.011

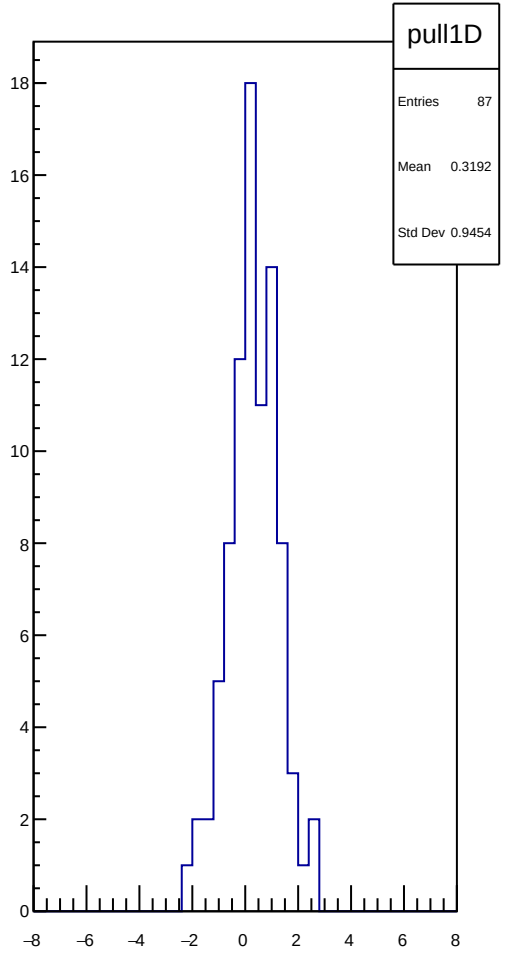

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7751 / 86
p0 4572 ± 3.453
5400
5200
5000
4800
4600
4400
4200
4000

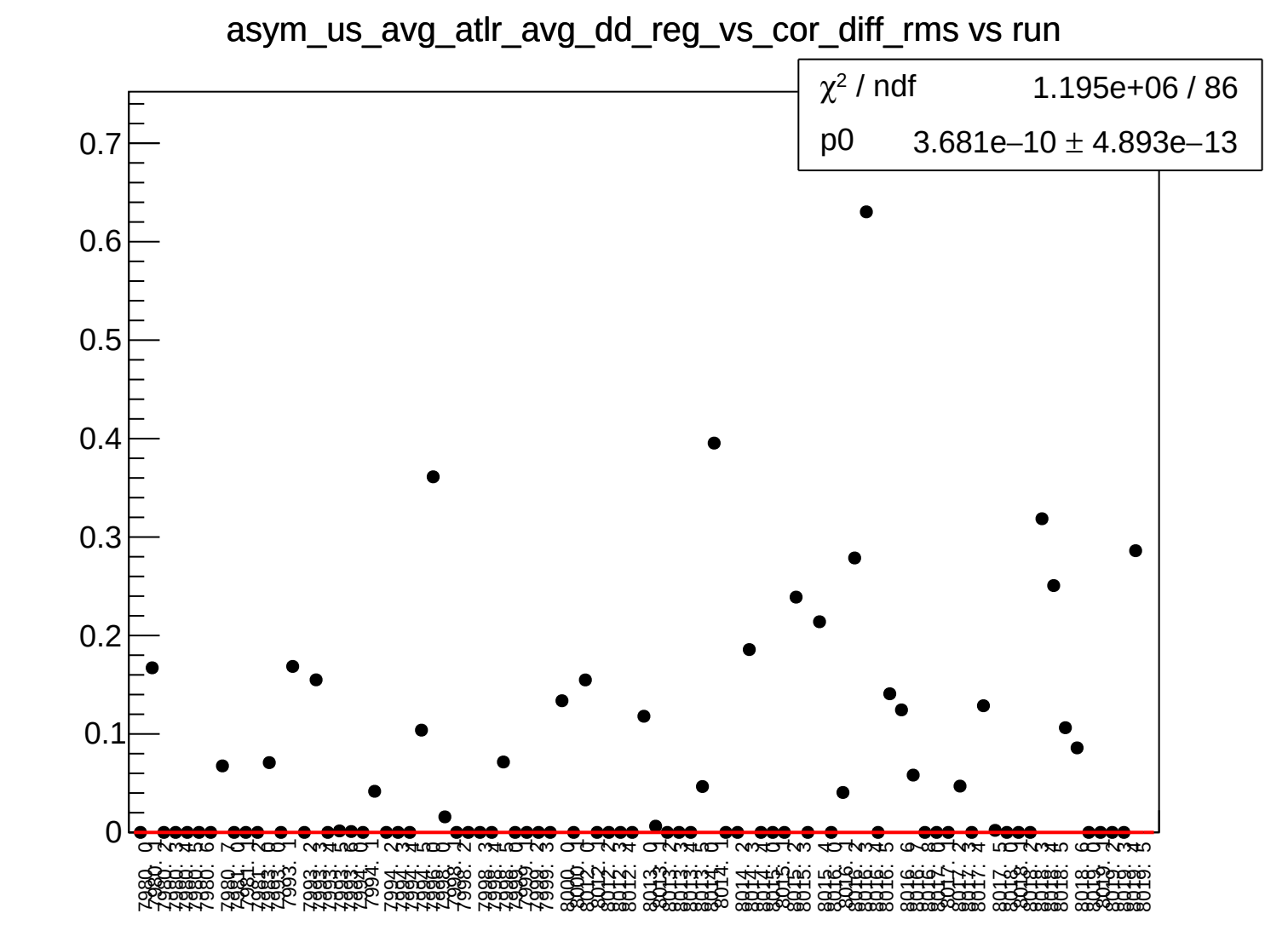

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 86.58 / 86
p0 −8559 ± 4918
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −251.1
Std Dev 0
2
1
0
−1
−2
−3

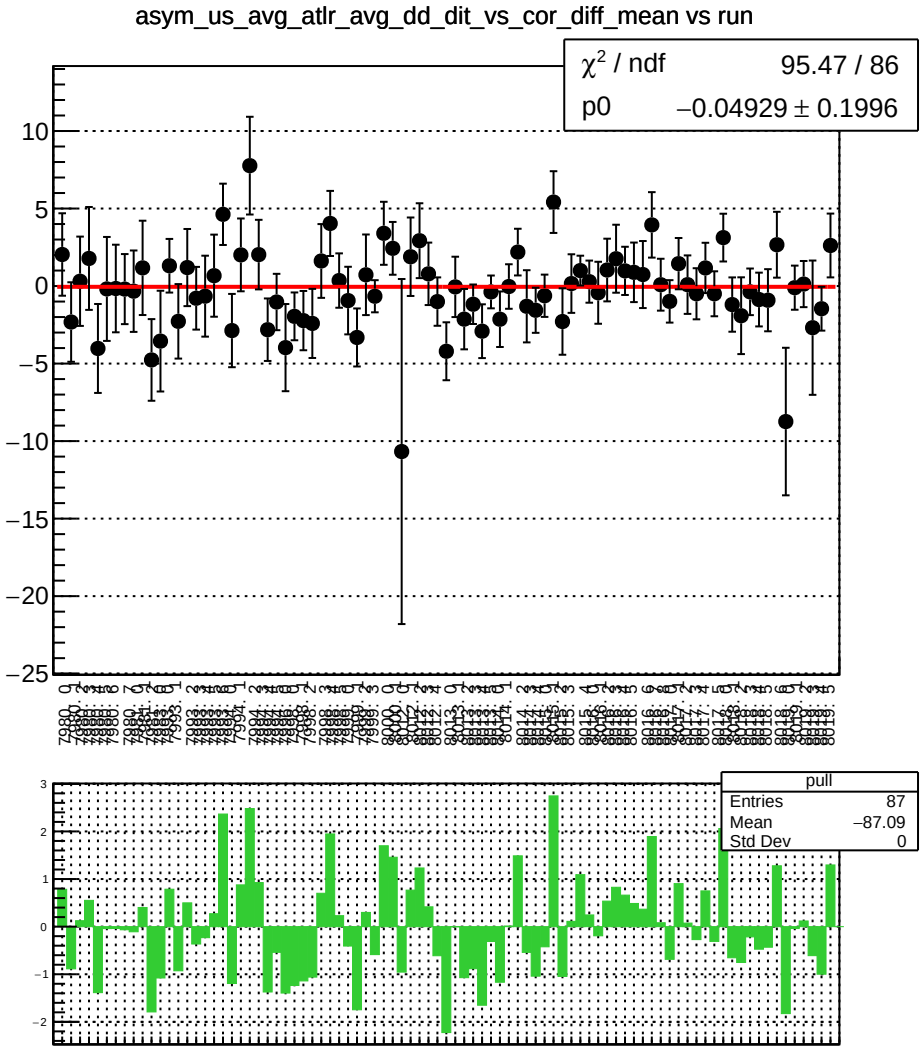

pull1D
Entries 87
Mean 0.003861
Std Dev 0.9976
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

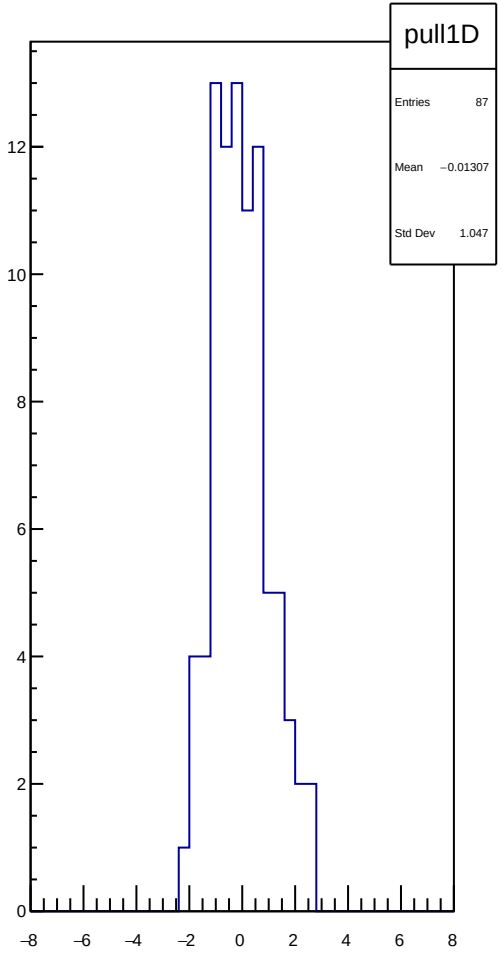

asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 6250 / 86
p0 4606 ± 3.478
5400
5200
5000
4800
4600
4400
4200
4000
3800

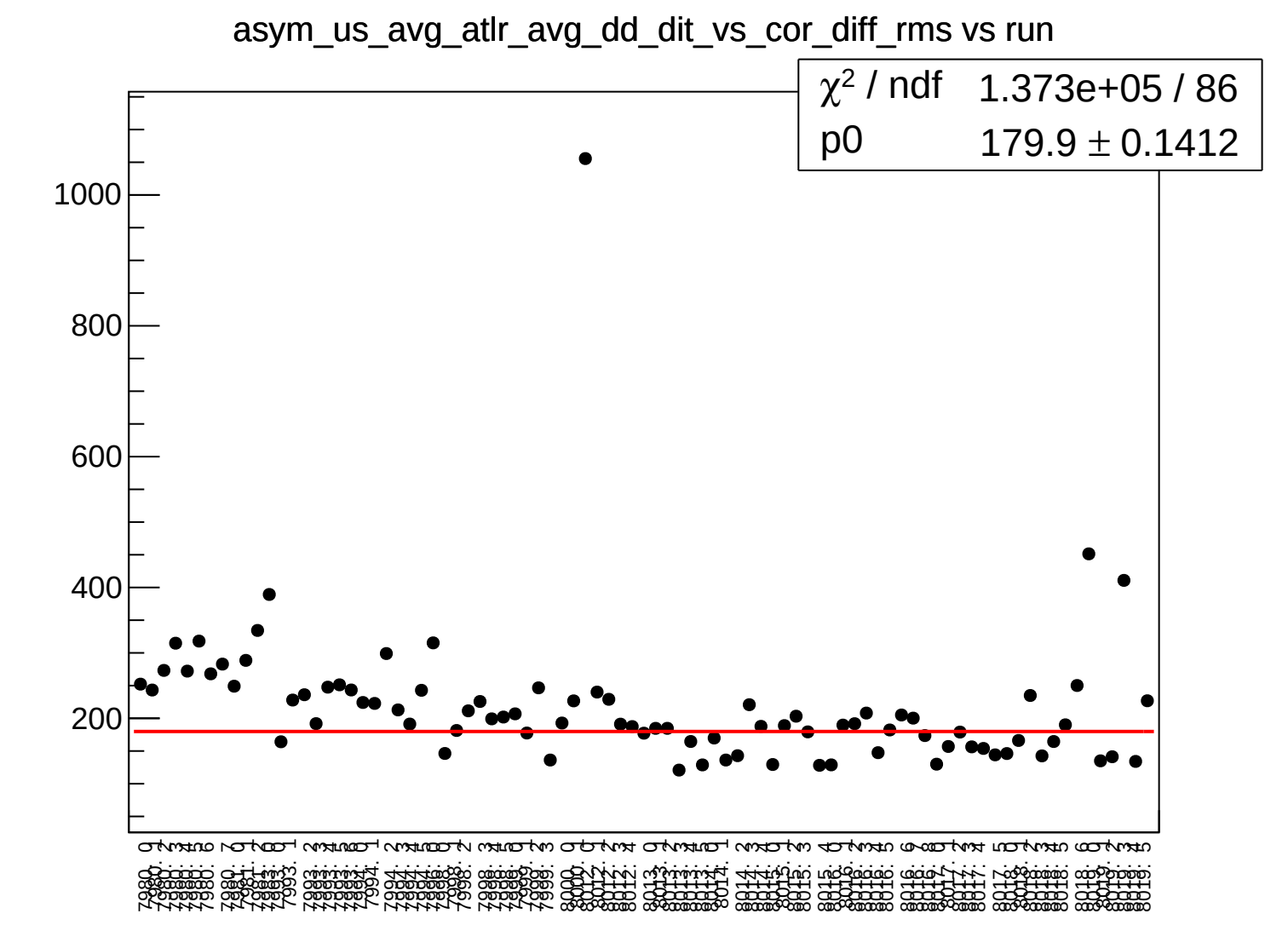

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.63 / 86
p0 2.75e−13 ± 6.92e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
pull
Entries 87
Mean 40.78
Std Dev 23.04
2
1
0
−1
−2

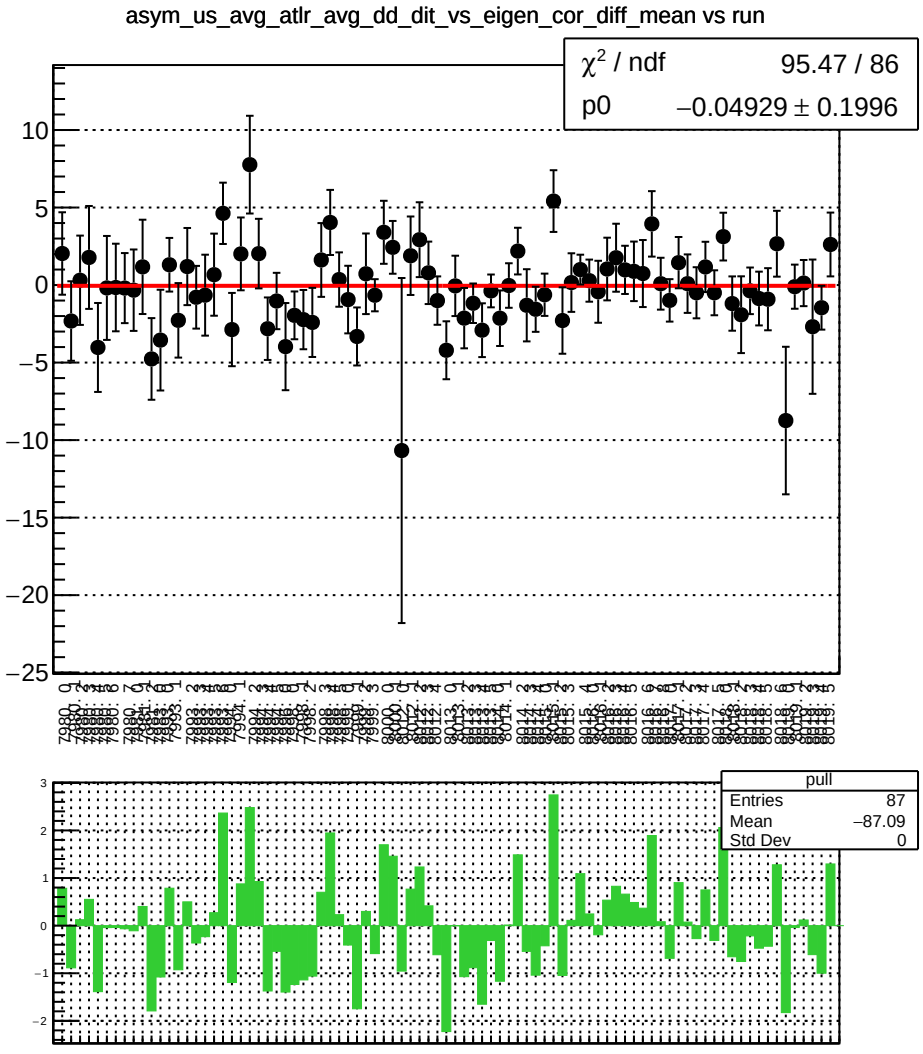

pull1D
Entries 87
Mean 0.3192
Std Dev 0.9454
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

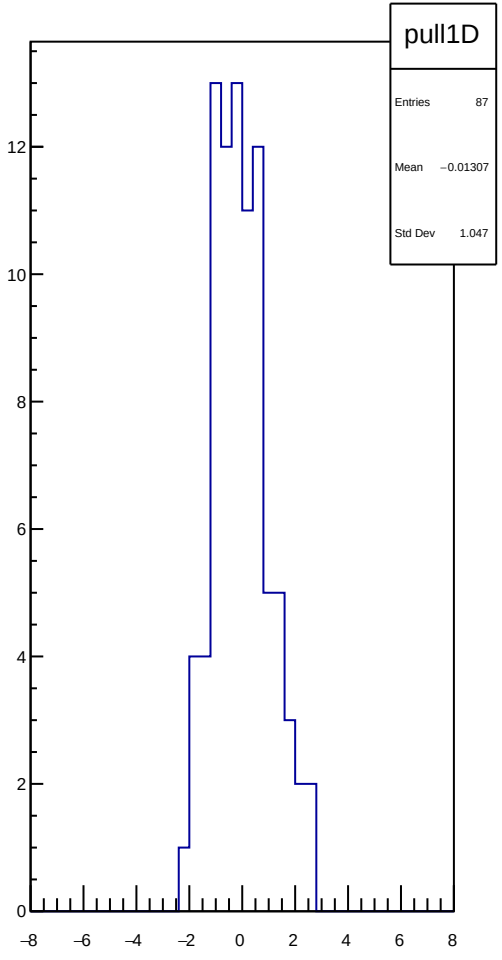

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.195e+06 / 86
p0 3.681e−10 ± 4.893e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

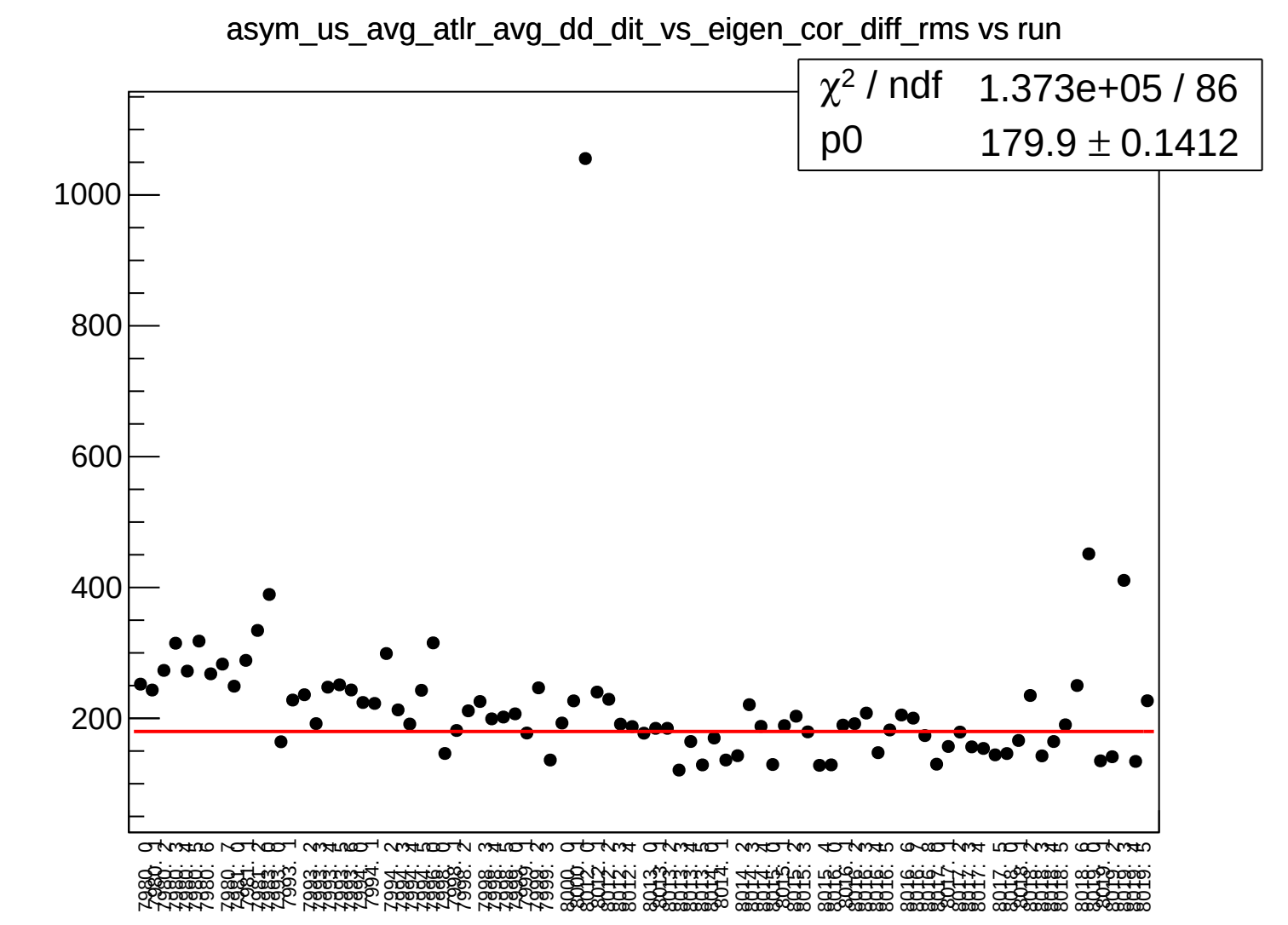

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.47 / 86
p0 −0.04929 ± 0.1996
pull
Entries 87
Mean −87.09
Std Dev 0

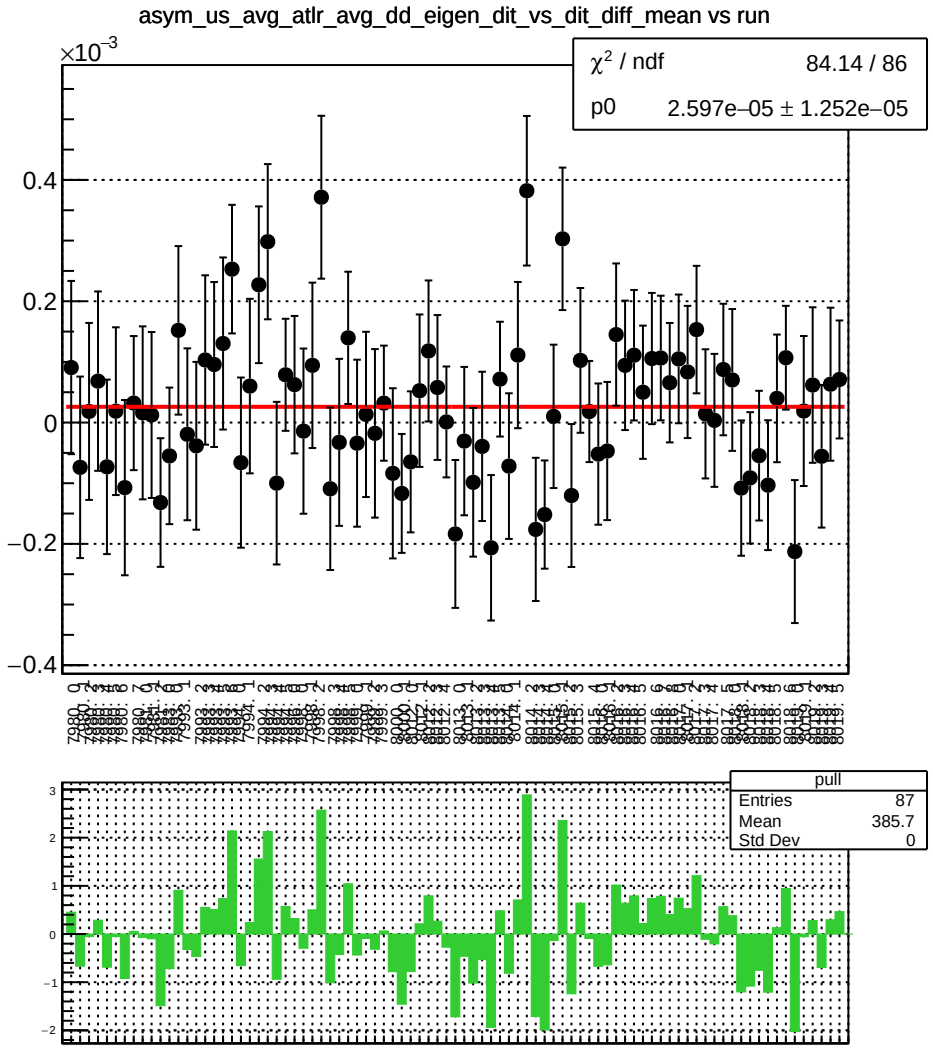

pull1D
Entries 87
Mean −0.01307
Std Dev 1.047

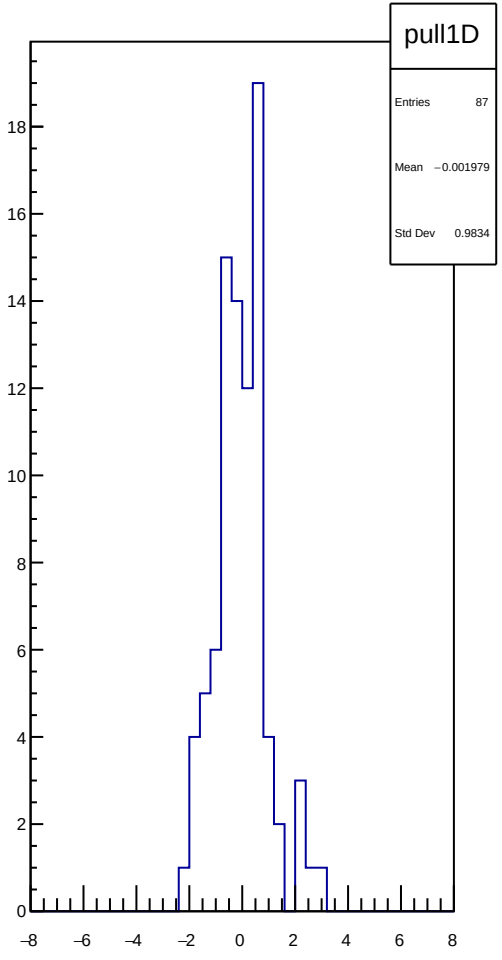

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.373e+05 / 86
p0 179.9 ± 0.1412
1000
800
600
400
200

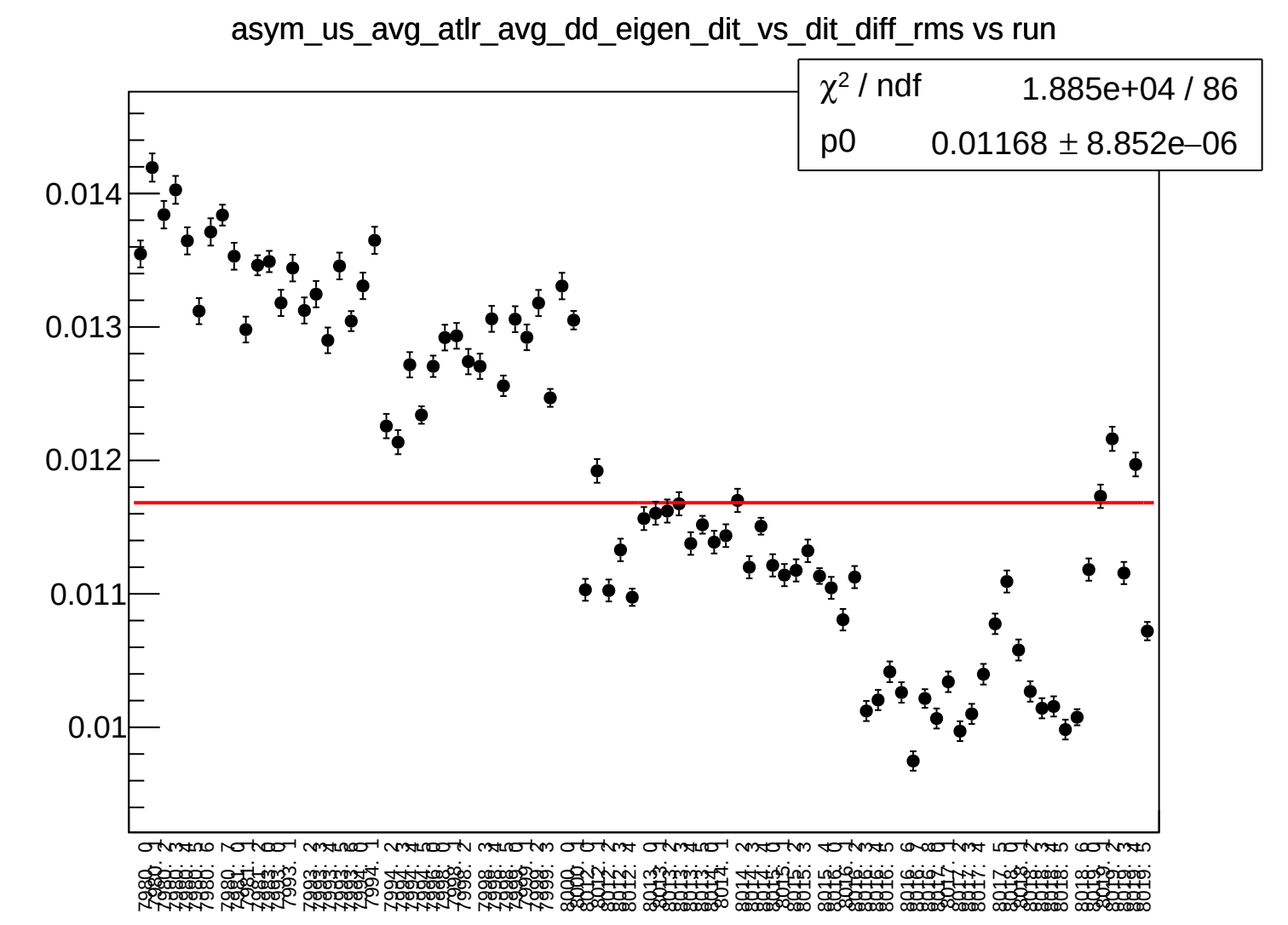

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.47 / 86
p0 −0.04929 ± 0.1996
pull
Entries 87
Mean −87.09
Std Dev 0

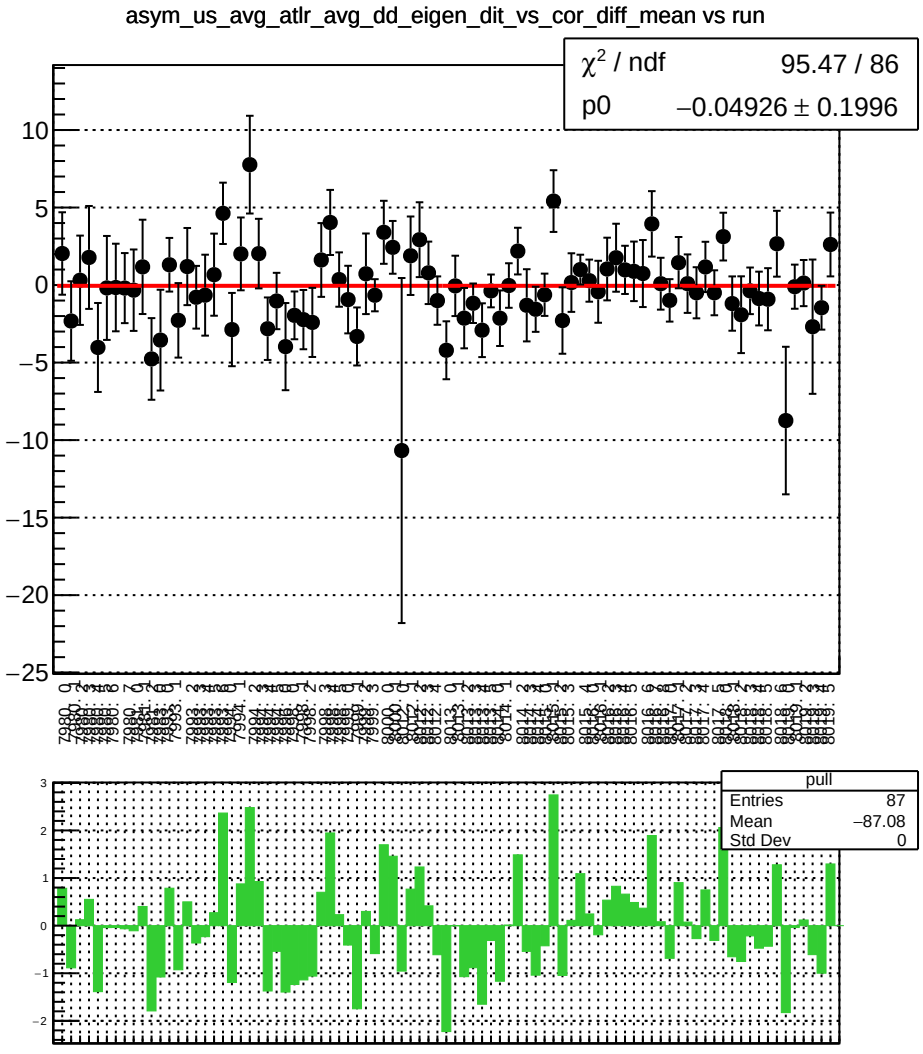

pull1D
Entries 87
Mean −0.01307
Std Dev 1.047

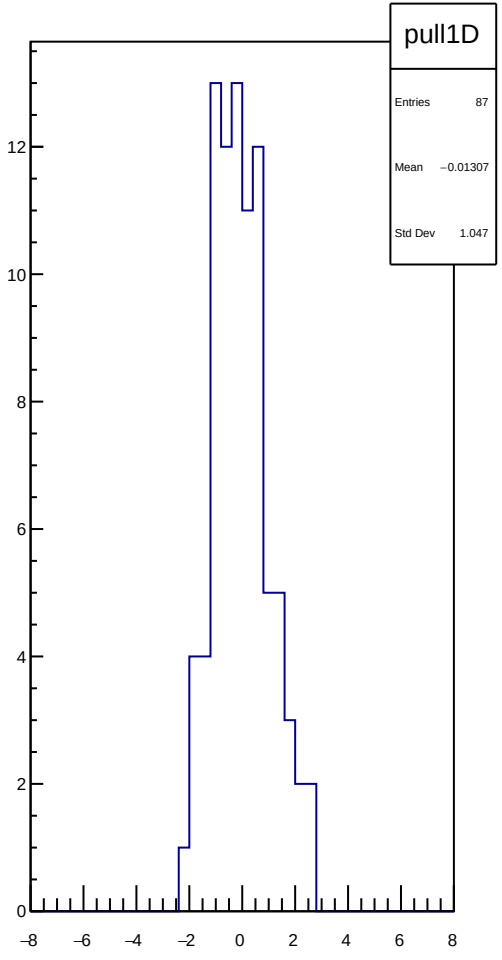

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.373e+05 / 86
p0 179.9 ± 0.1412
1000
800
600
400
200

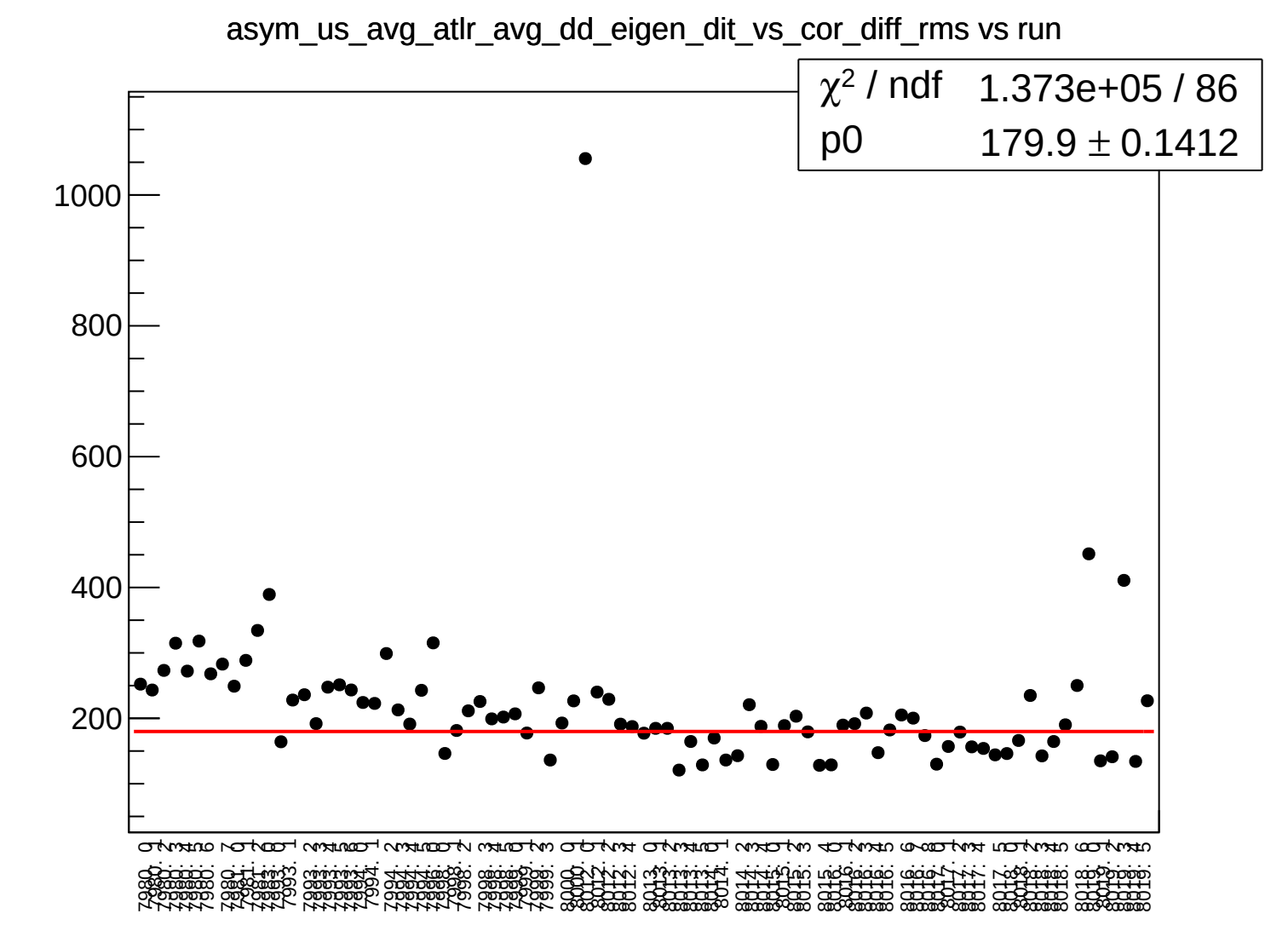

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.14 / 86
p0 2.597e−05 ± 1.252e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 87
Mean 385.7
Std Dev 0
3
2
1
0
−1
−2

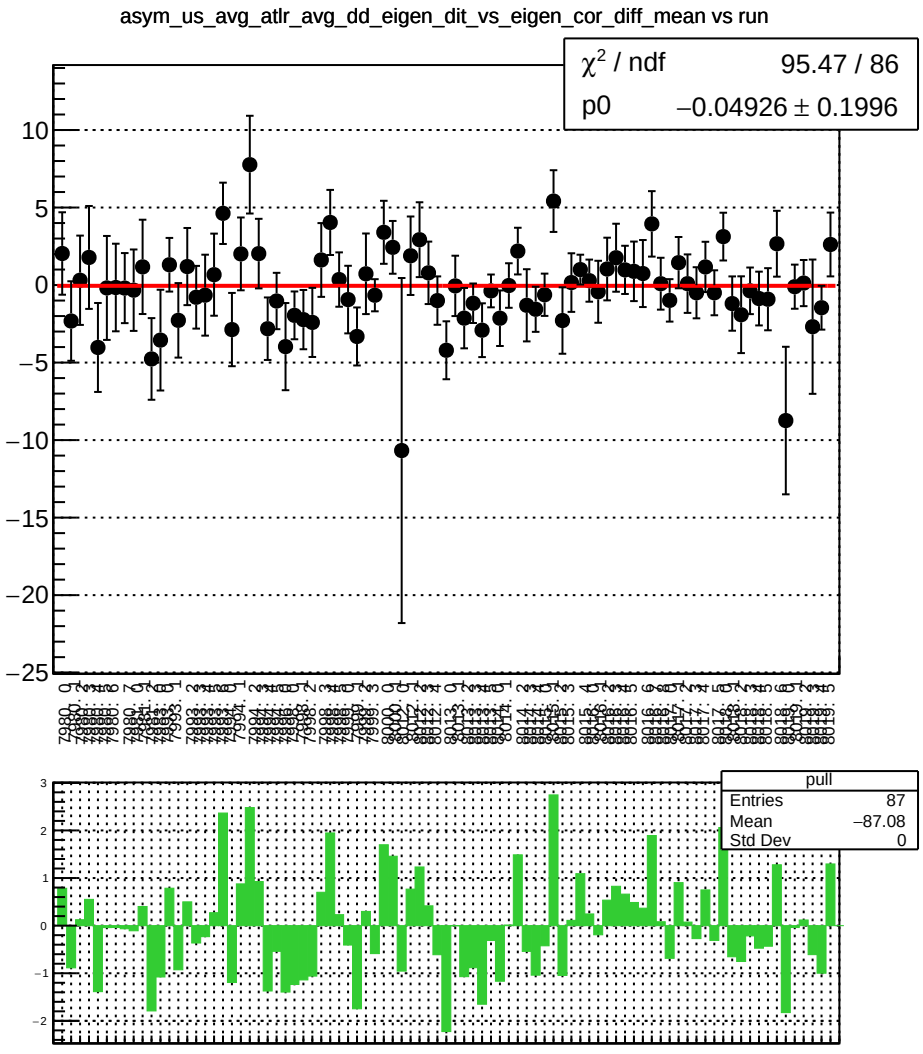

pull1D
Entries 87
Mean −0.001979
Std Dev 0.9834
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

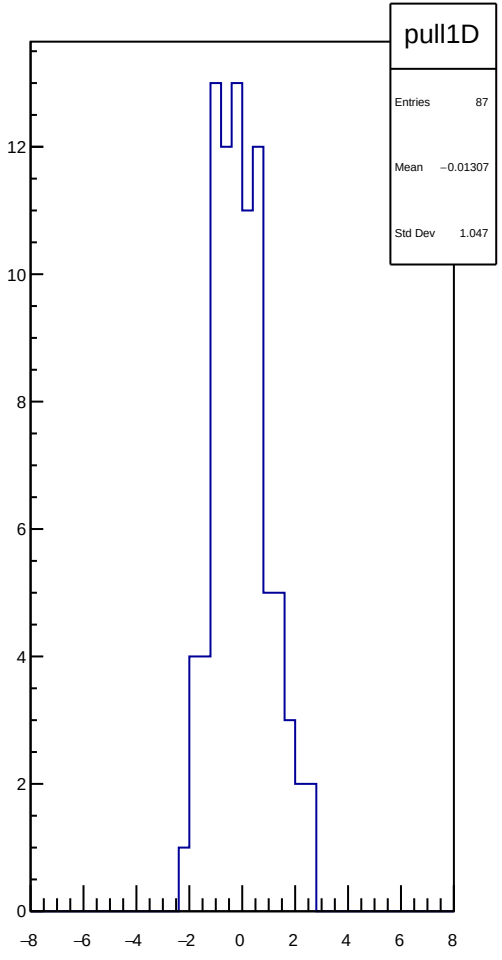

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.885e+04 / 86
p0 0.01168 ± 8.852e–06
0.014
0.013
0.012
0.011
0.01

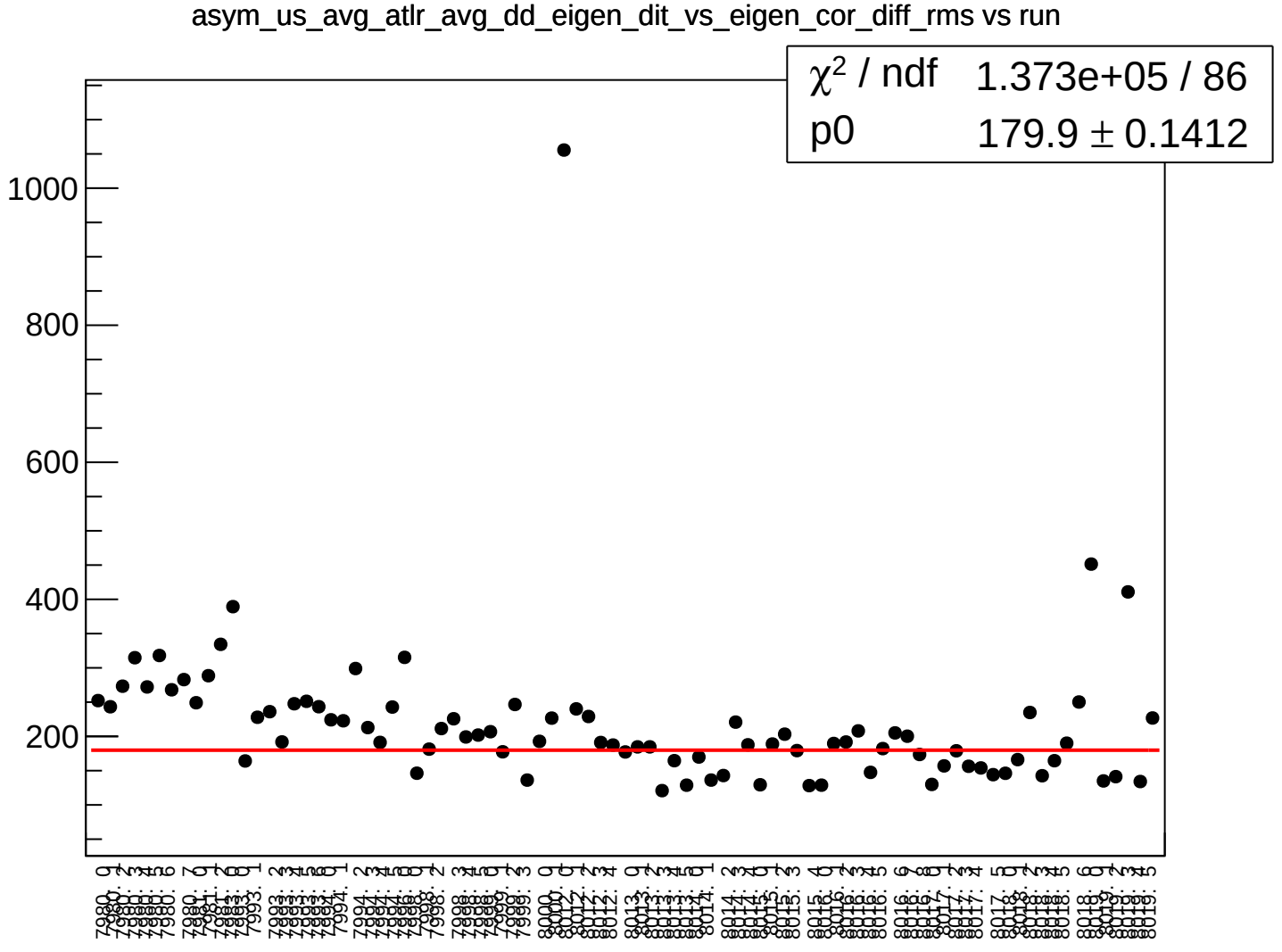

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.47 / 86
p0 −0.04926 ± 0.1996
pull
Entries 87
Mean −87.08
Std Dev 0

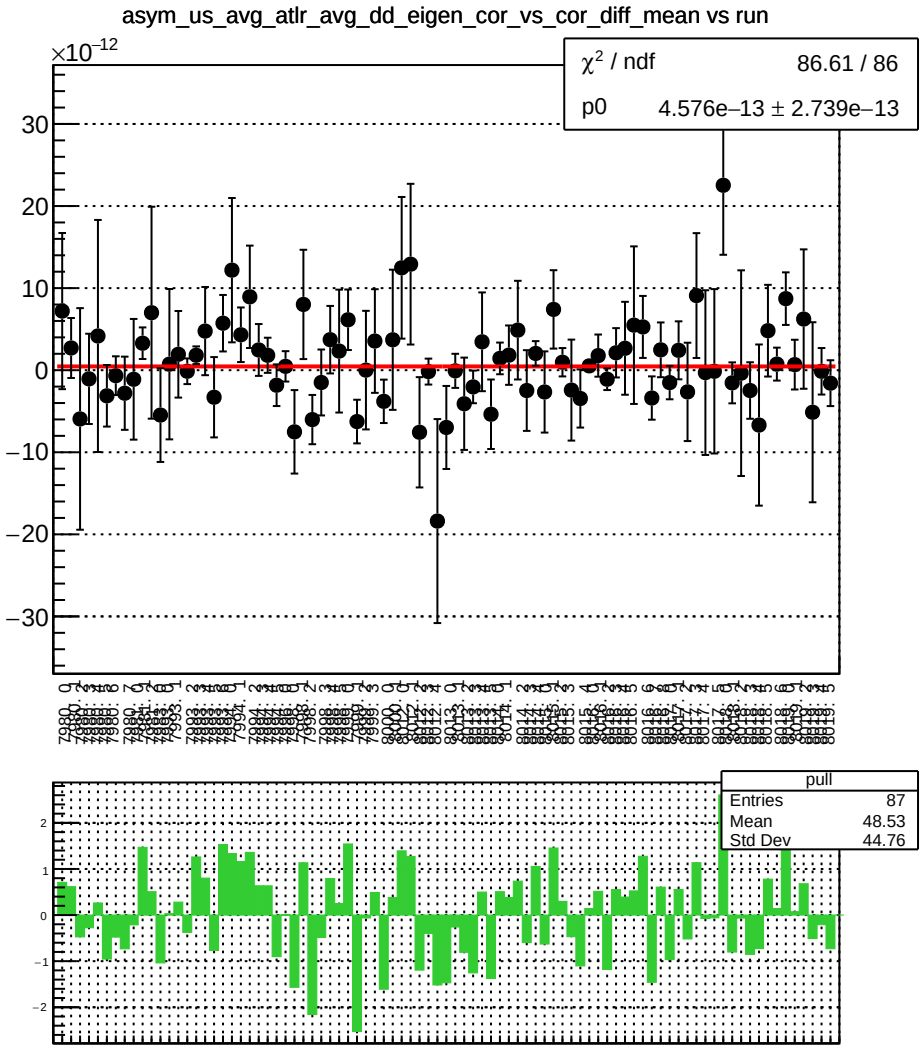

pull1D
Entries 87
Mean −0.01307
Std Dev 1.047

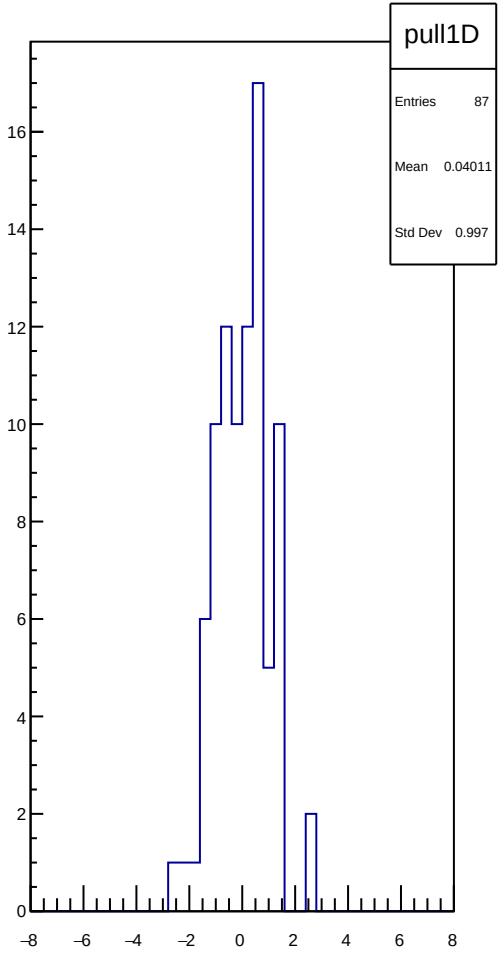

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.373e+05 / 86
p0 179.9 ± 0.1412
1000
800
600
400
200

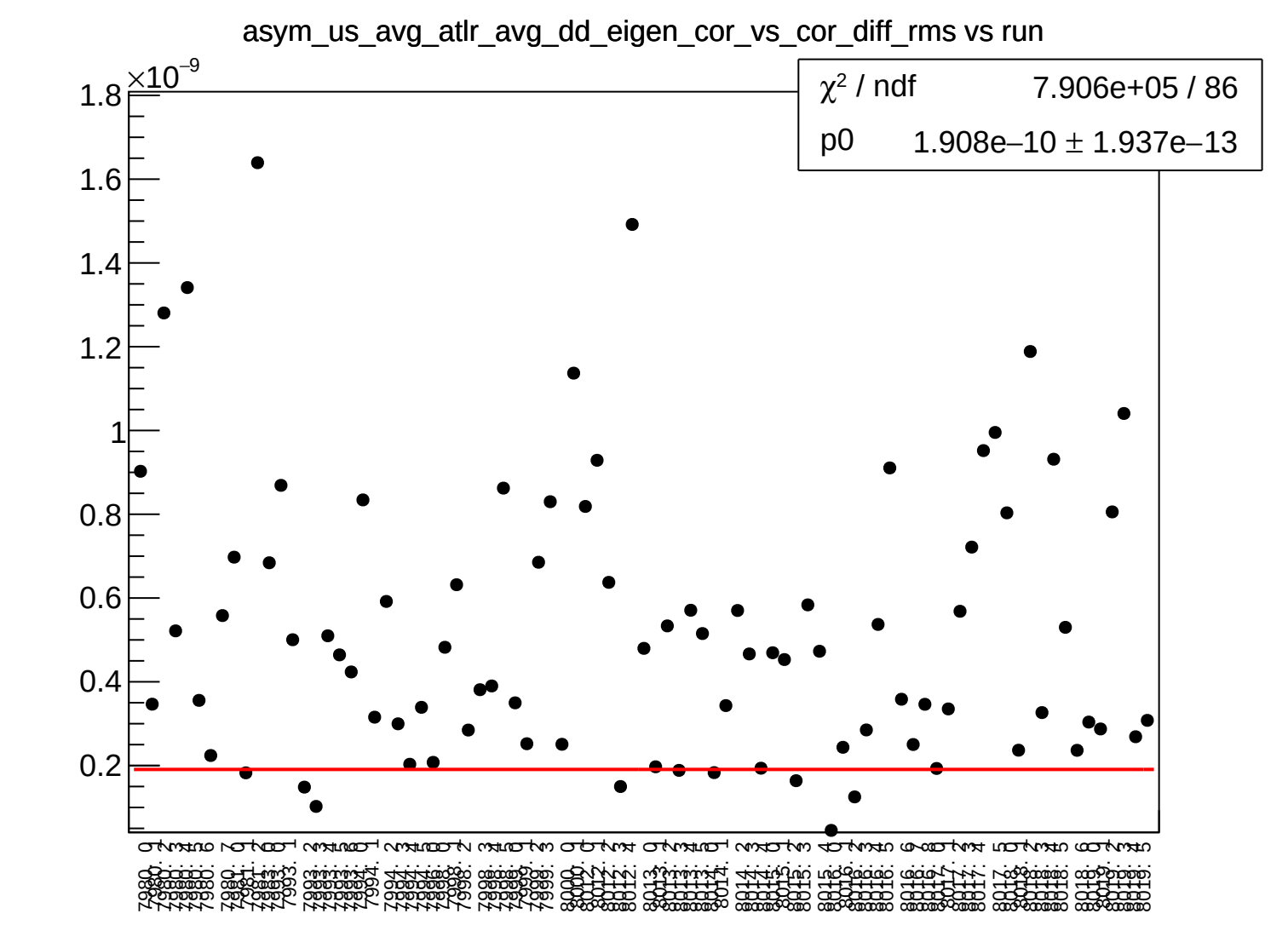

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.47 / 86
p0 −0.04926 ± 0.1996
pull
Entries 87
Mean −87.08
Std Dev 0

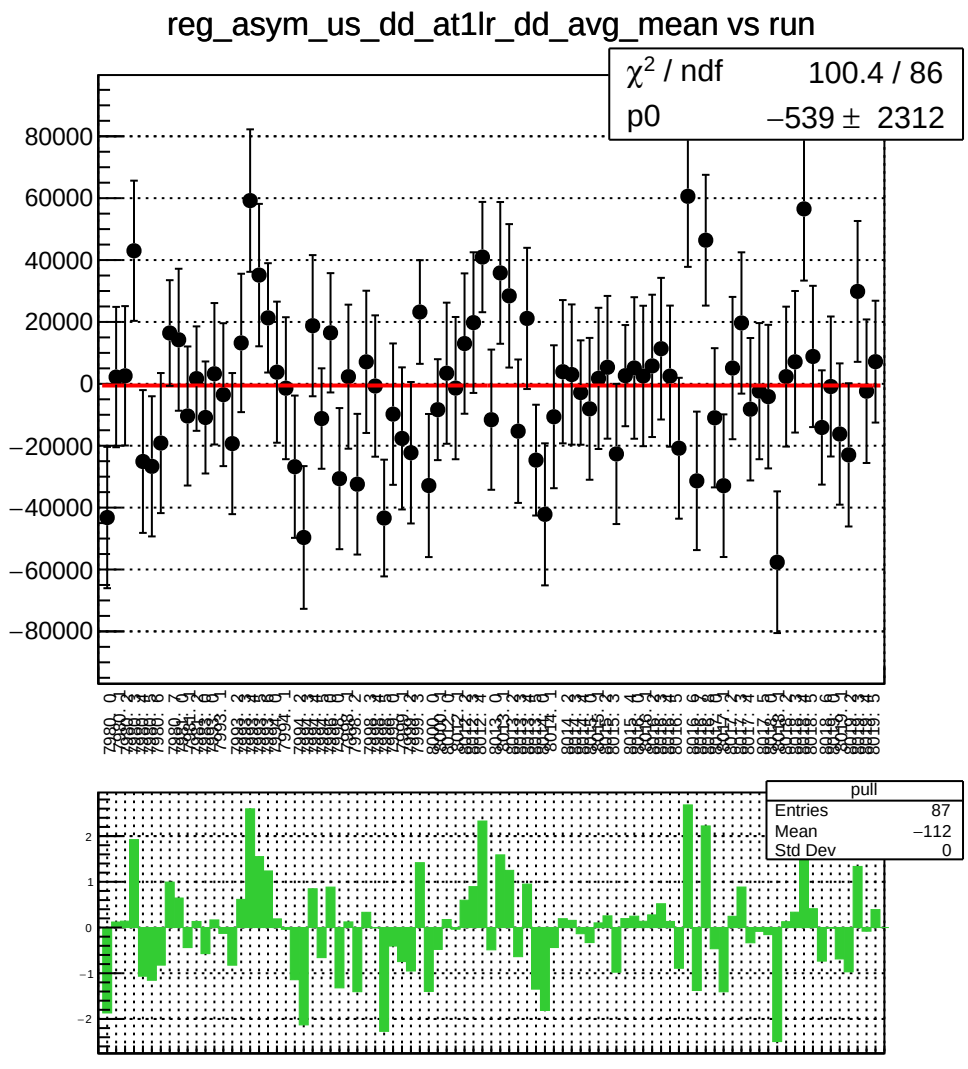

pull1D
Entries 87
Mean −0.01307
Std Dev 1.047

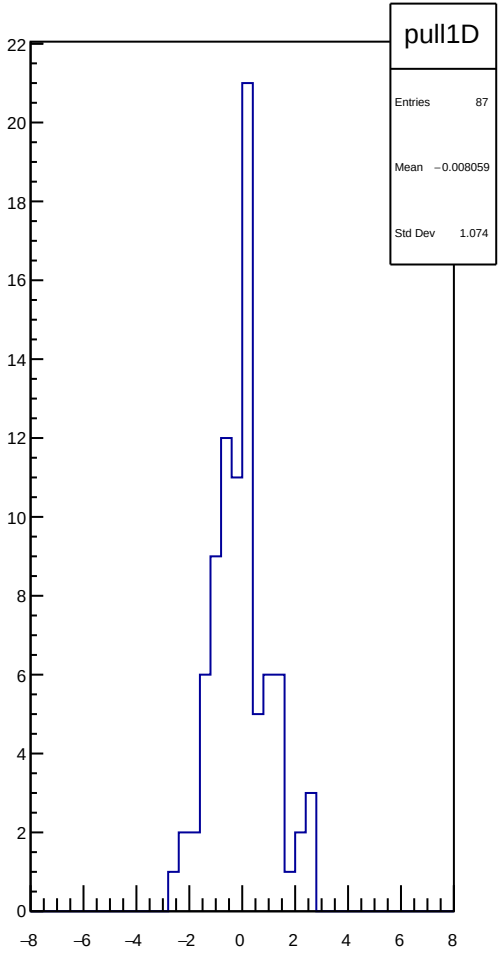

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.373e+05 / 86
p0 179.9 ± 0.1412
1000
800
600
400
200

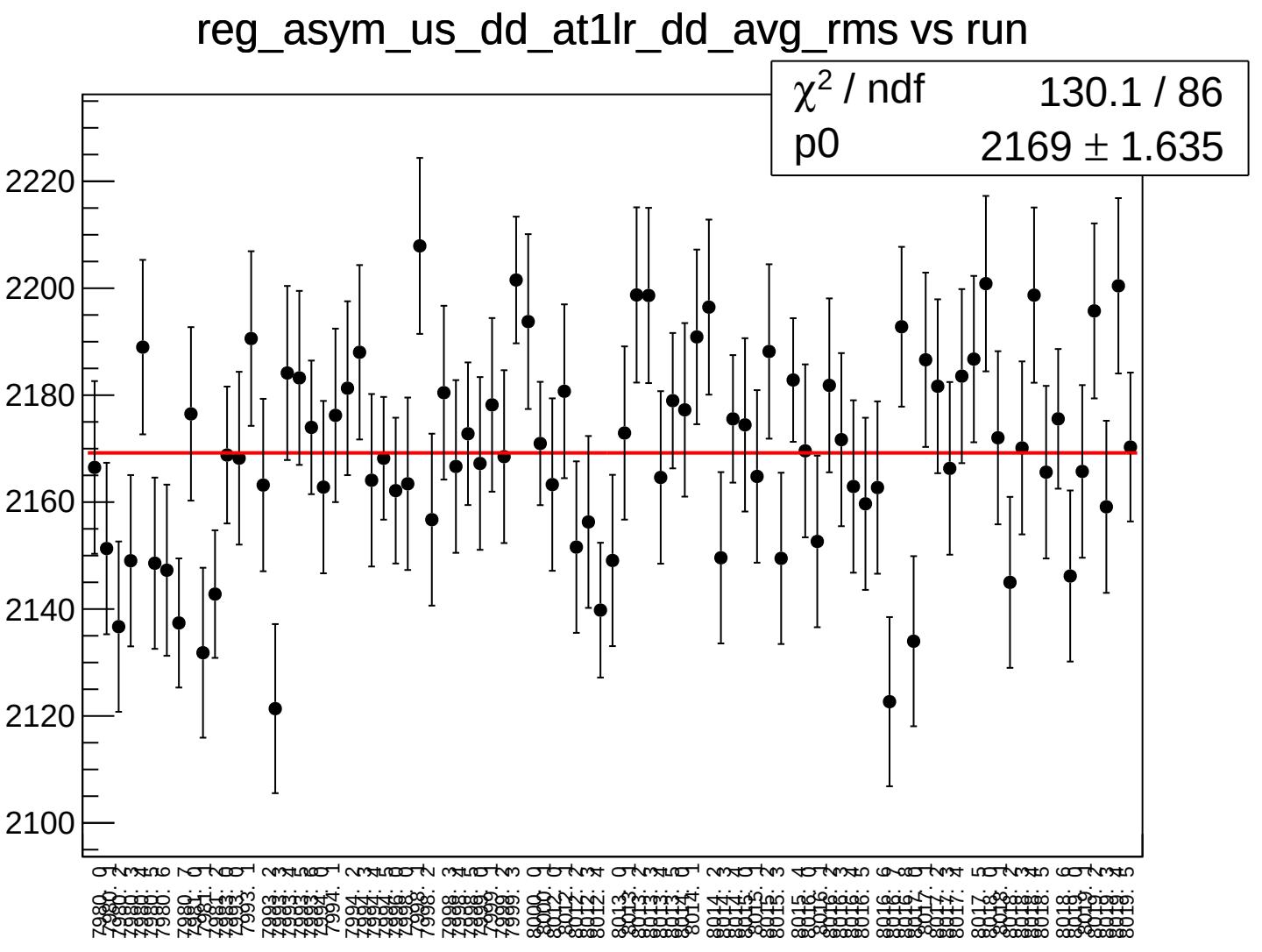

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.61 / 86
p0 4.576e−13 ± 2.739e−13
30
20
10
0
−10
−20
−30
pull
Entries 87
Mean 48.53
Std Dev 44.76
2
1
0
−1
−2

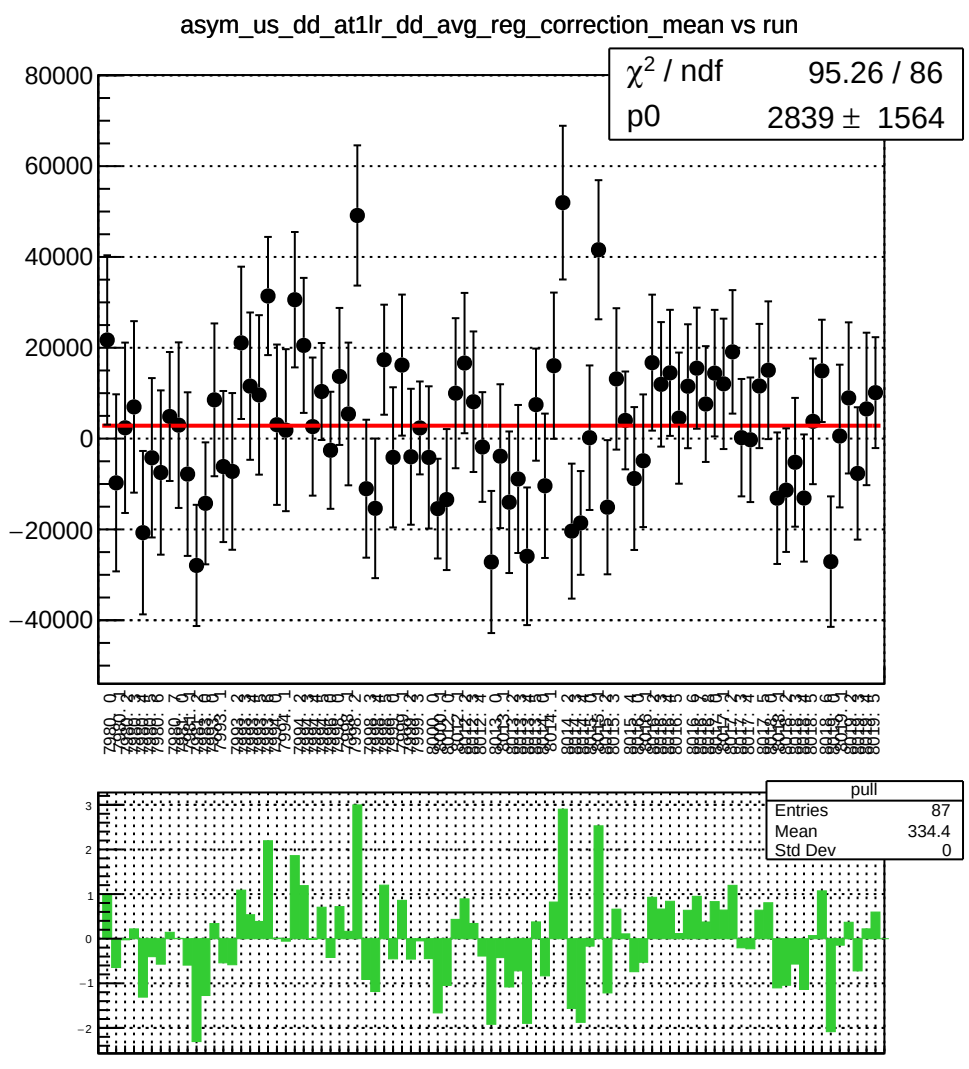

pull1D
Entries 87
Mean 0.04011
Std Dev 0.997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

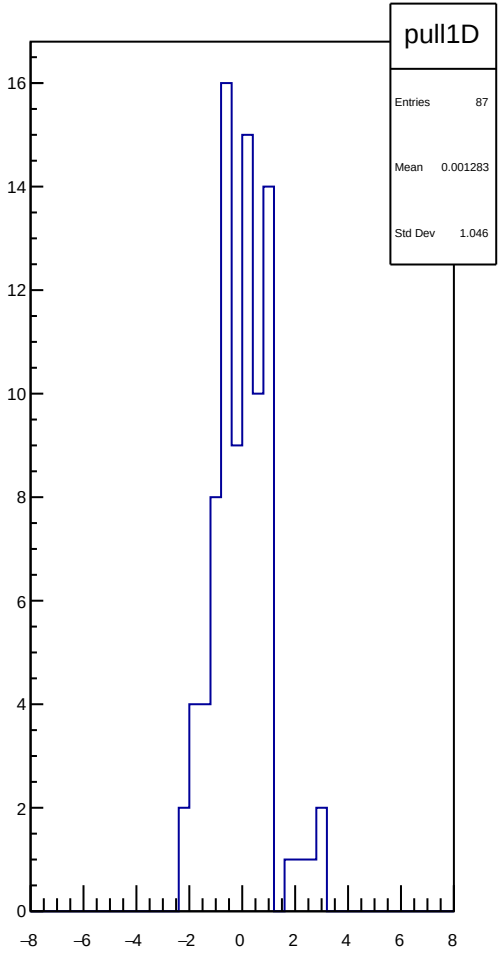

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 7.906e+05 / 86
p0 1.908e−10 ± 1.937e−13

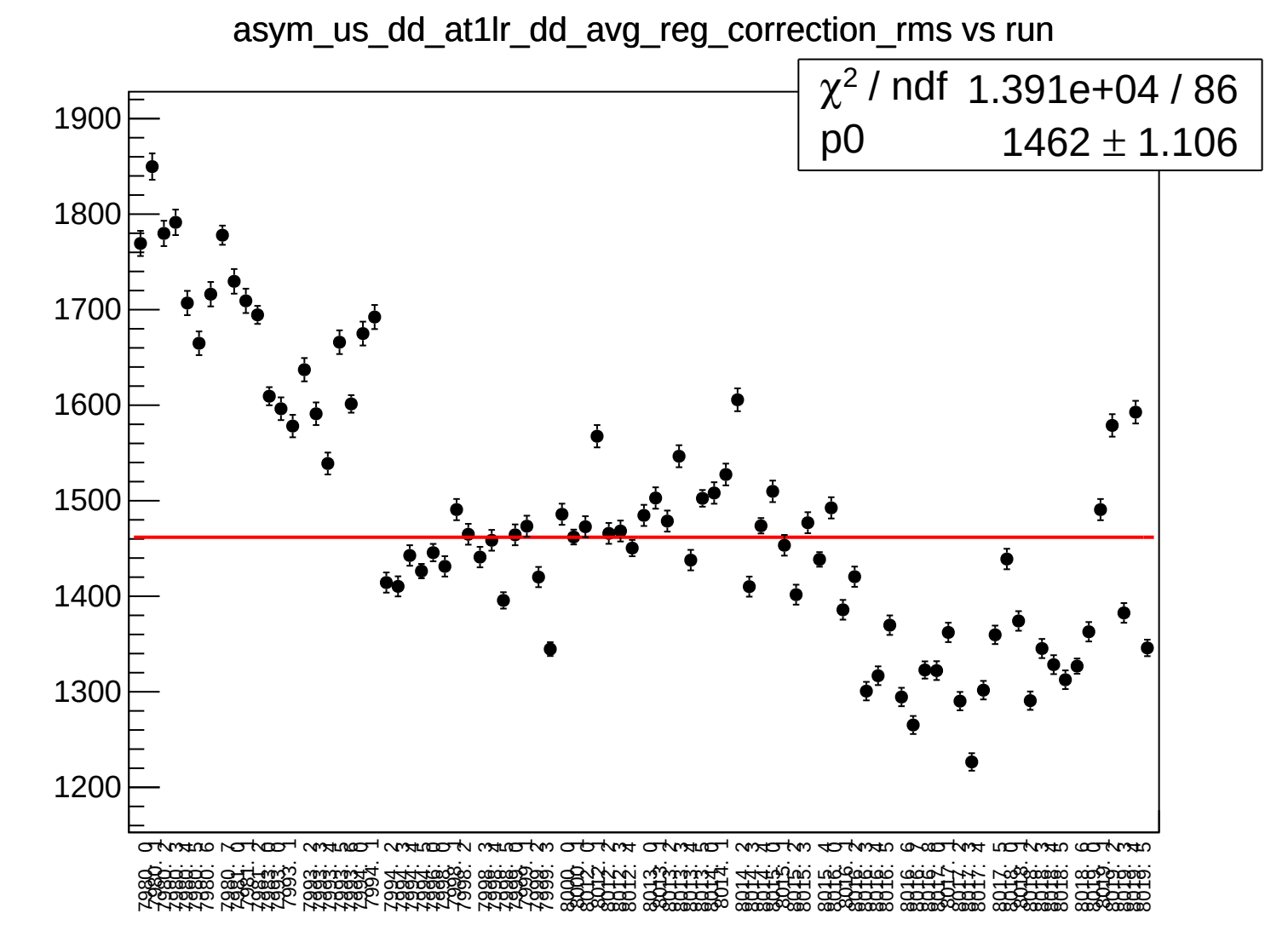

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 100.4 / 86
p0 −539 ± 2312
pull
Entries 87
Mean −112
Std Dev 0

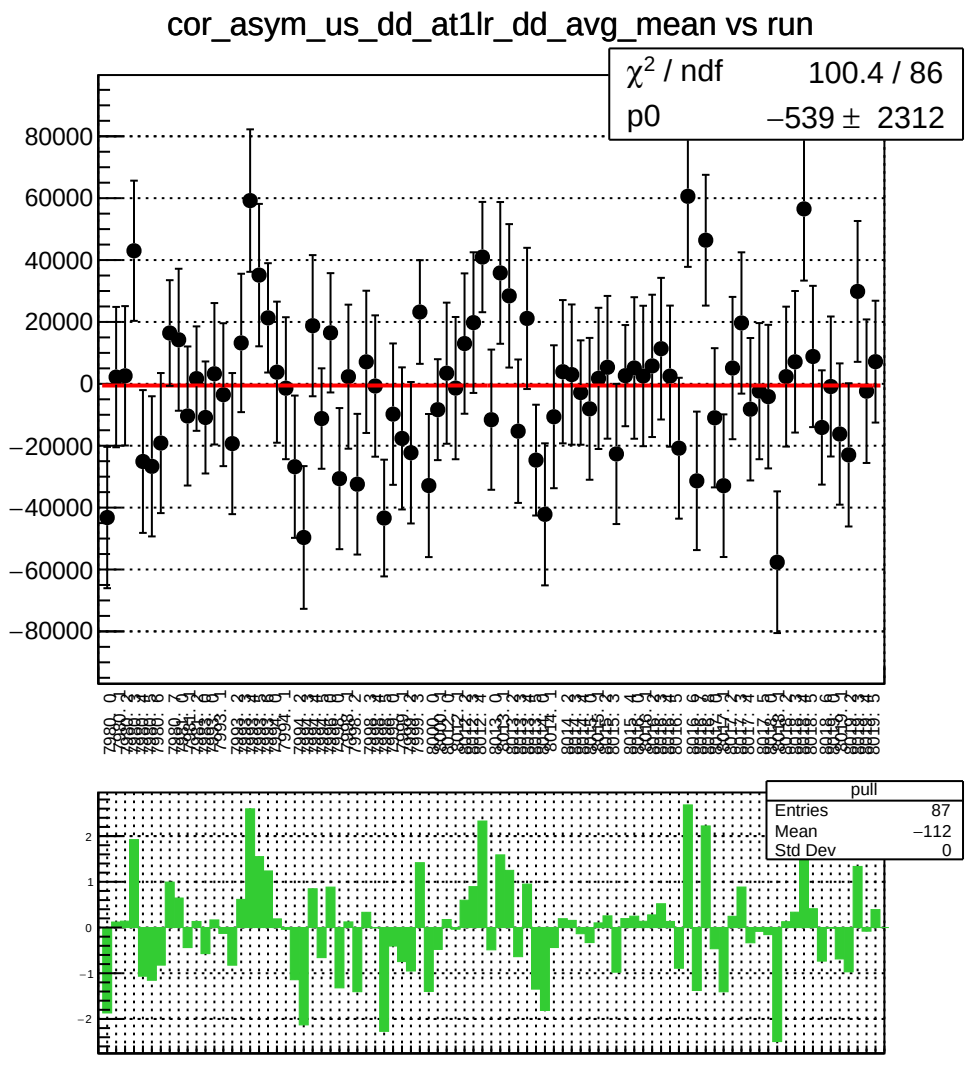

pull1D
Entries 87
Mean −0.008059
Std Dev 1.074

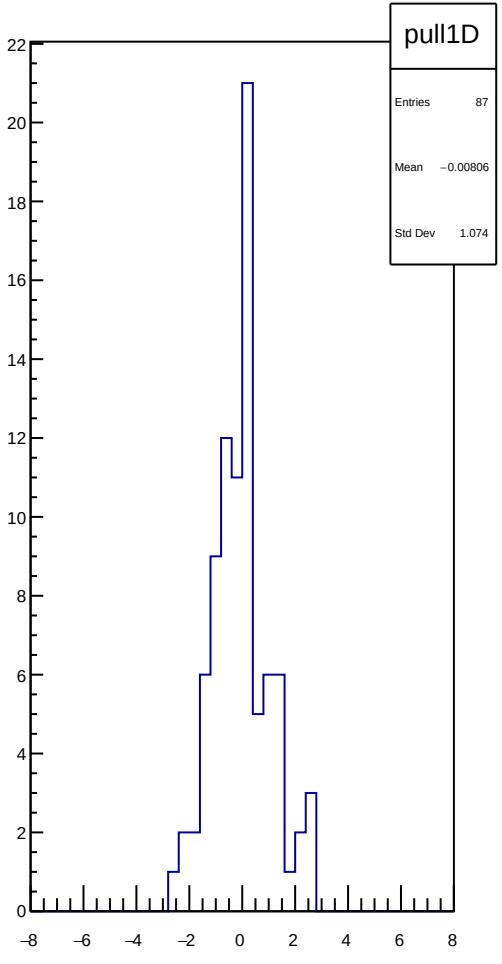

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 130.1 / 86
p0 2169 ± 1.635
2220
2200
2180
2160
2140
2120
2100

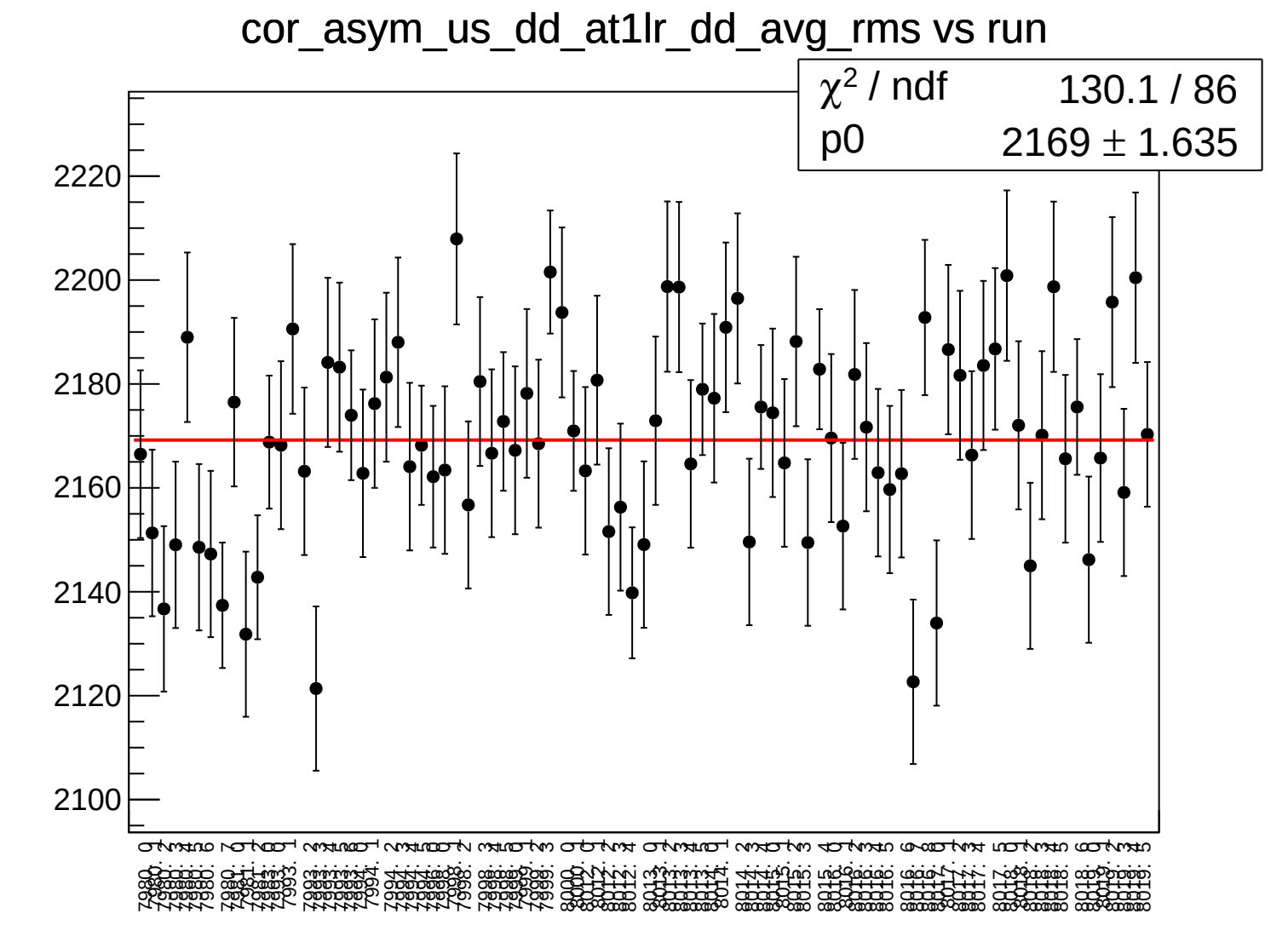

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 95.26 / 86
p0 2839 ± 1564
pull
Entries 87
Mean 334.4
Std Dev 0

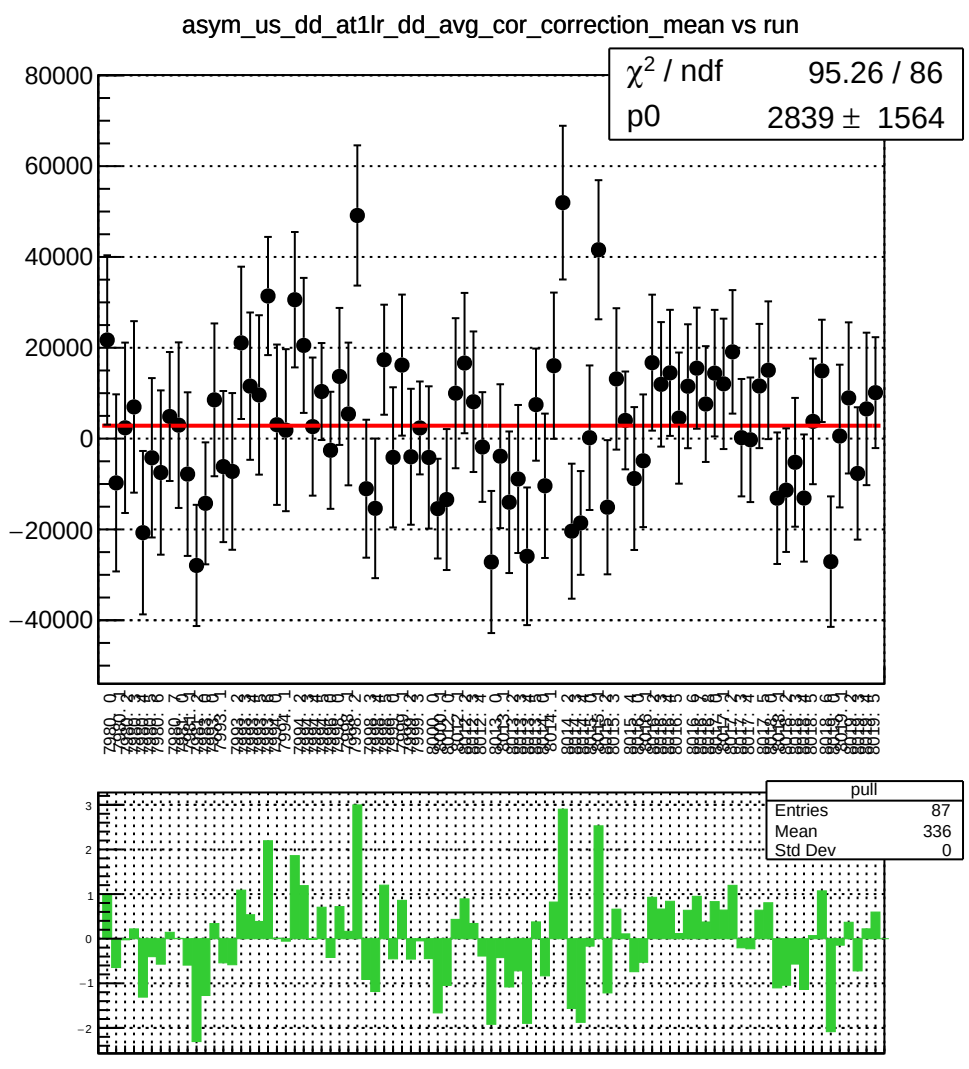

pull1D
Entries 87
Mean 0.001283
Std Dev 1.046

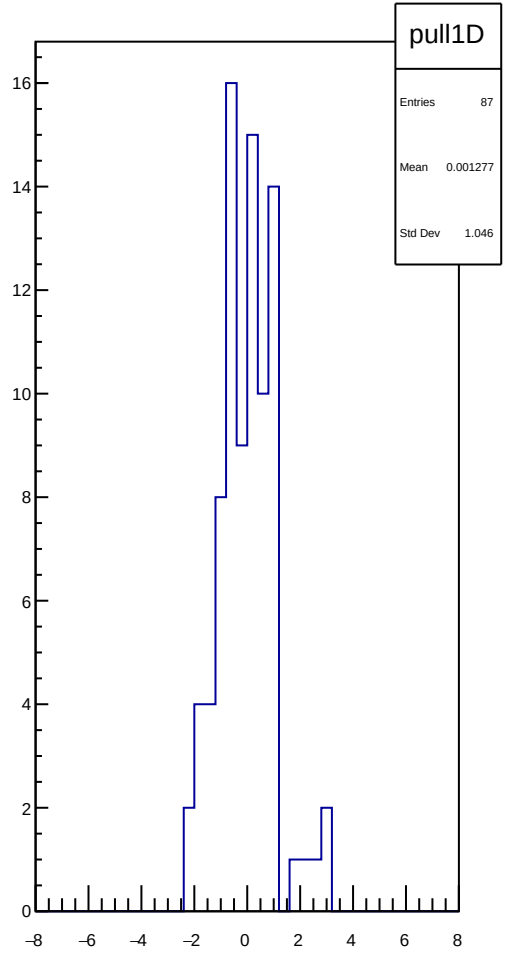

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.391e+04 / 86
p0 1462 ± 1.106
1900
1800
1700
1600
1500
1400
1300
1200

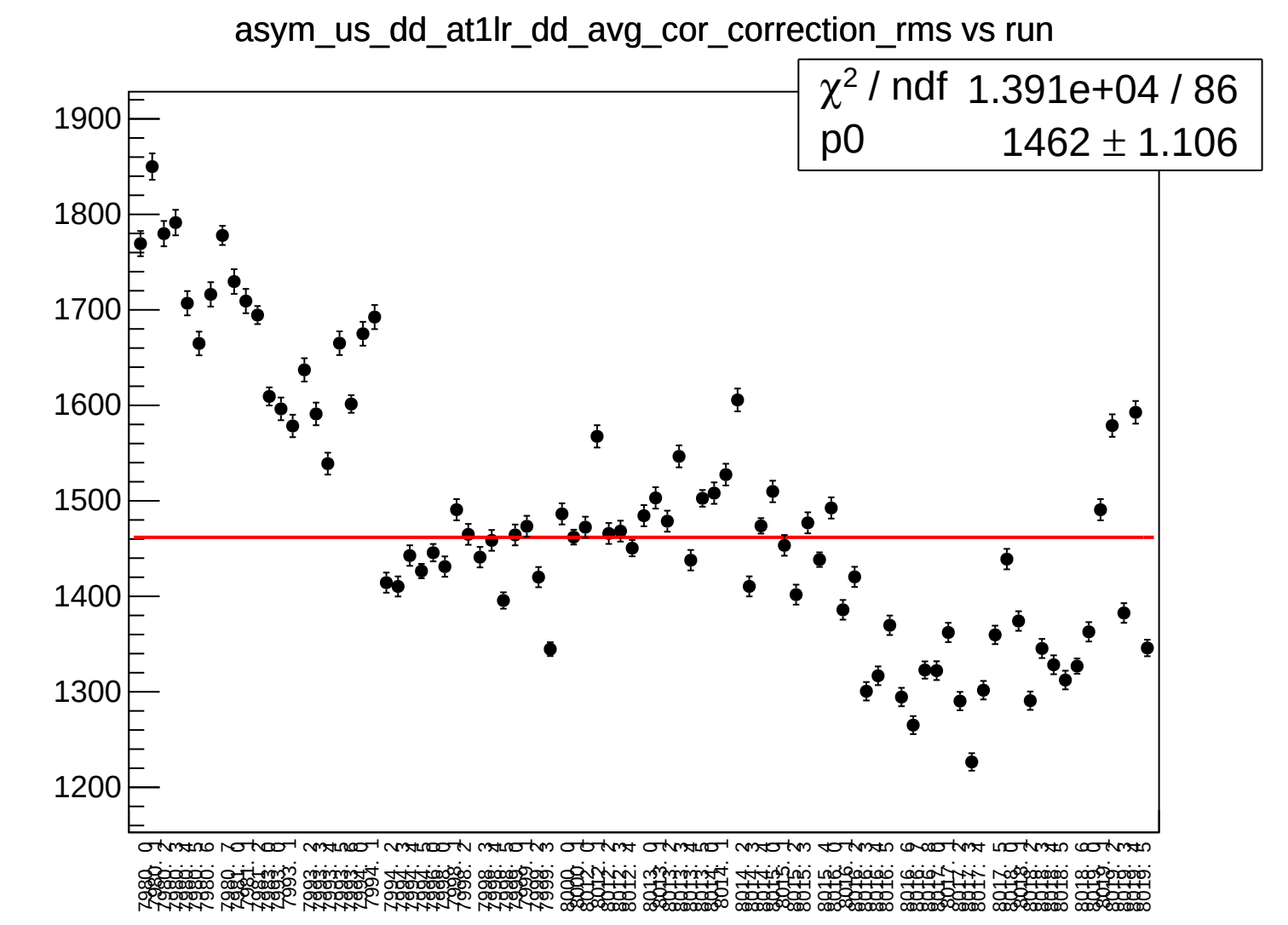

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 100.4 / 86
p0 −539 ± 2312
pull
Entries 87
Mean −112
Std Dev 0

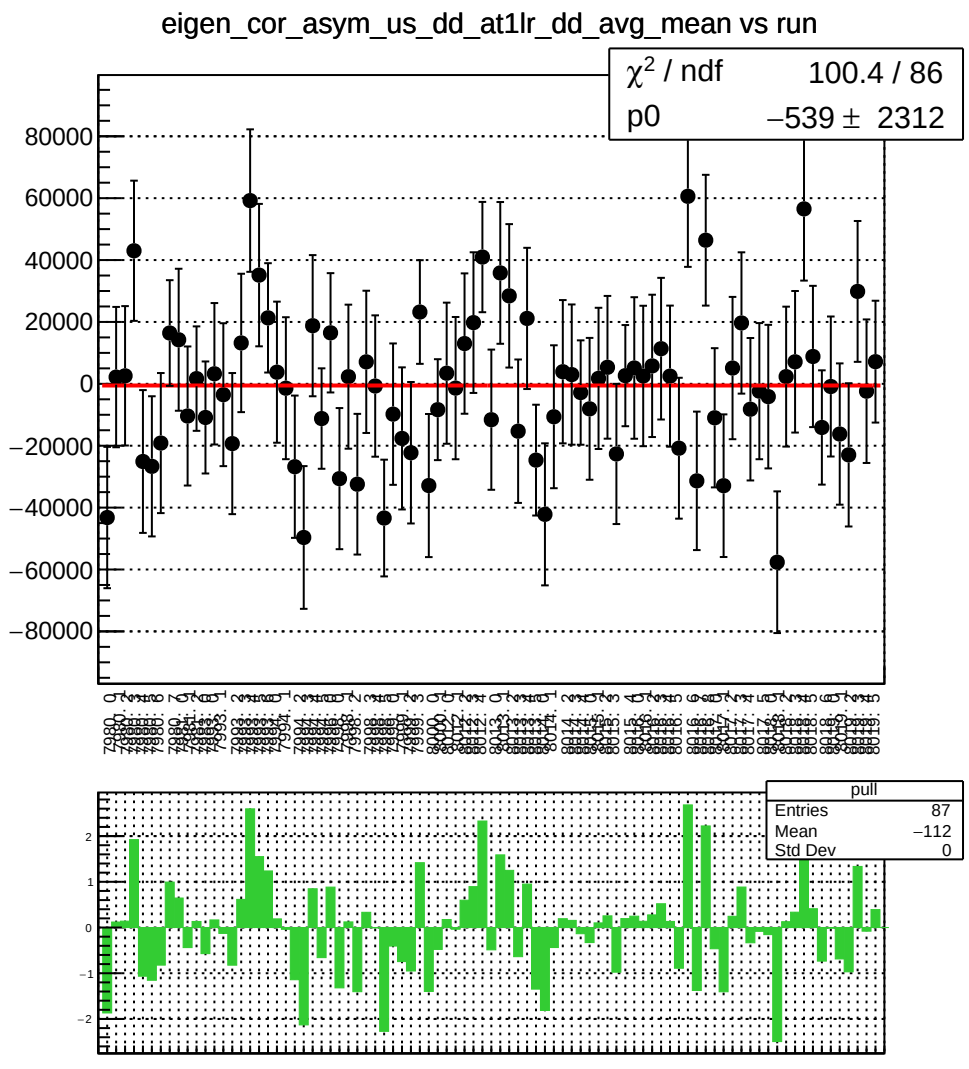

pull1D
Entries 87
Mean −0.00806
Std Dev 1.074

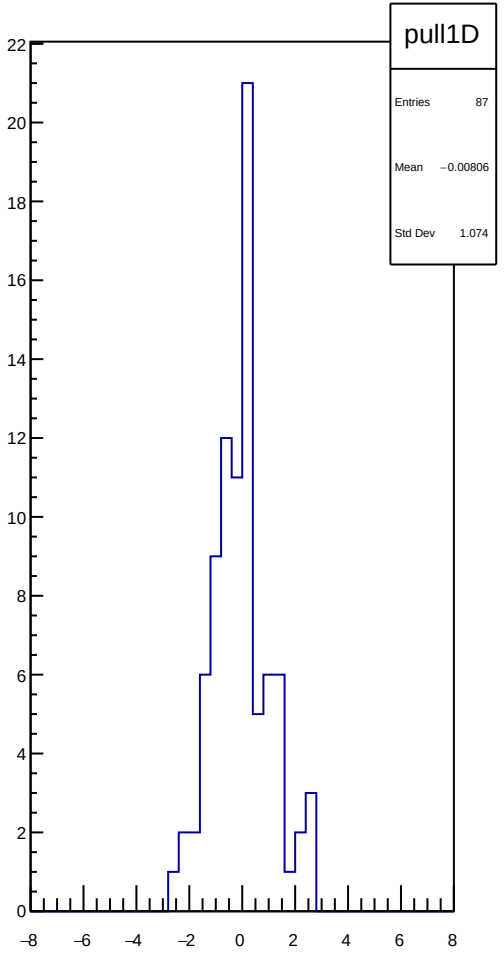

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 130.1 / 86
p0 2169 ± 1.635
2220
2200
2180
2160
2140
2120
2100

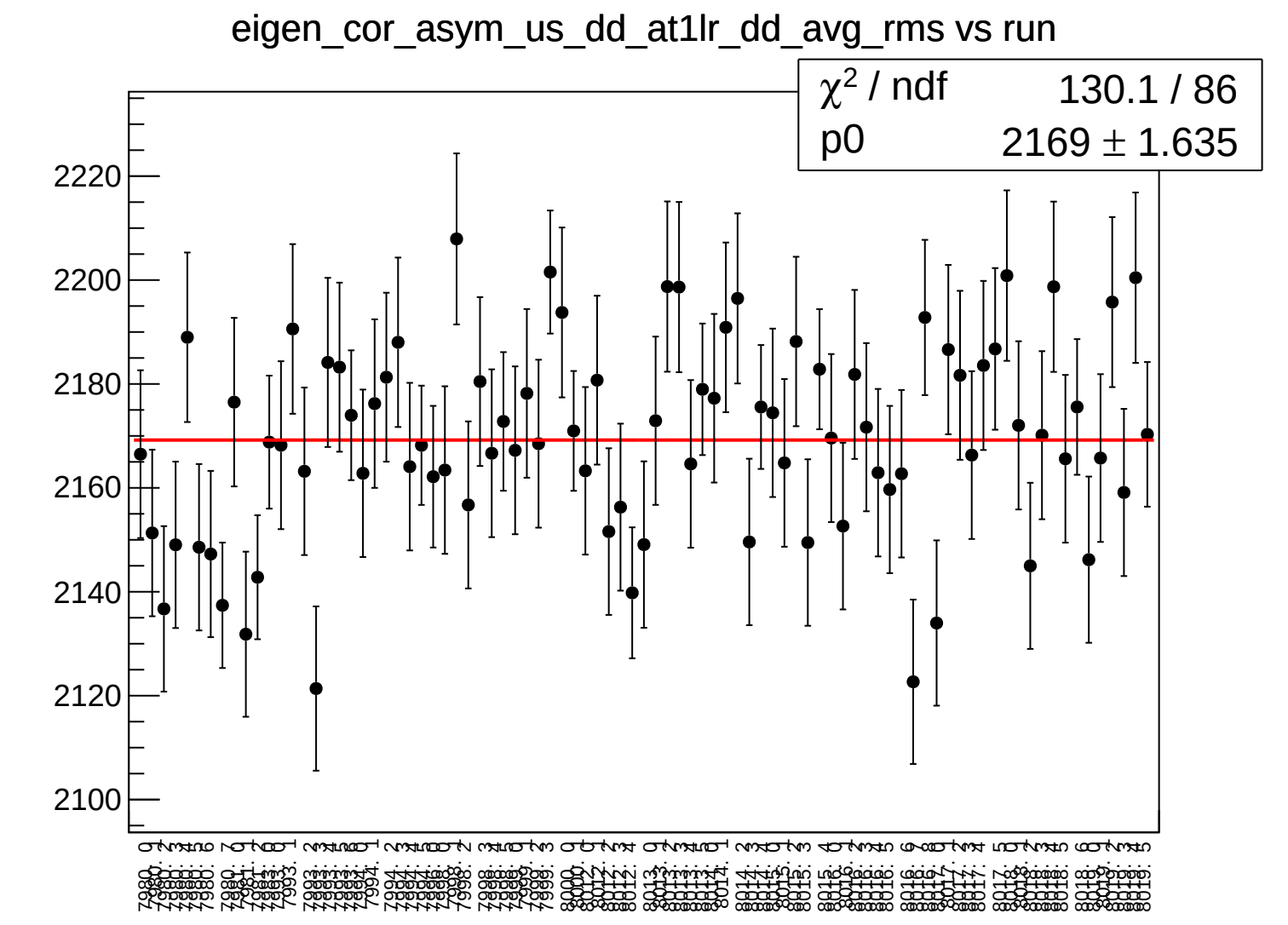

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 95.26 / 86
p0 2839 ± 1564
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 336
Std Dev 0
3
2
1
0
−1
−2

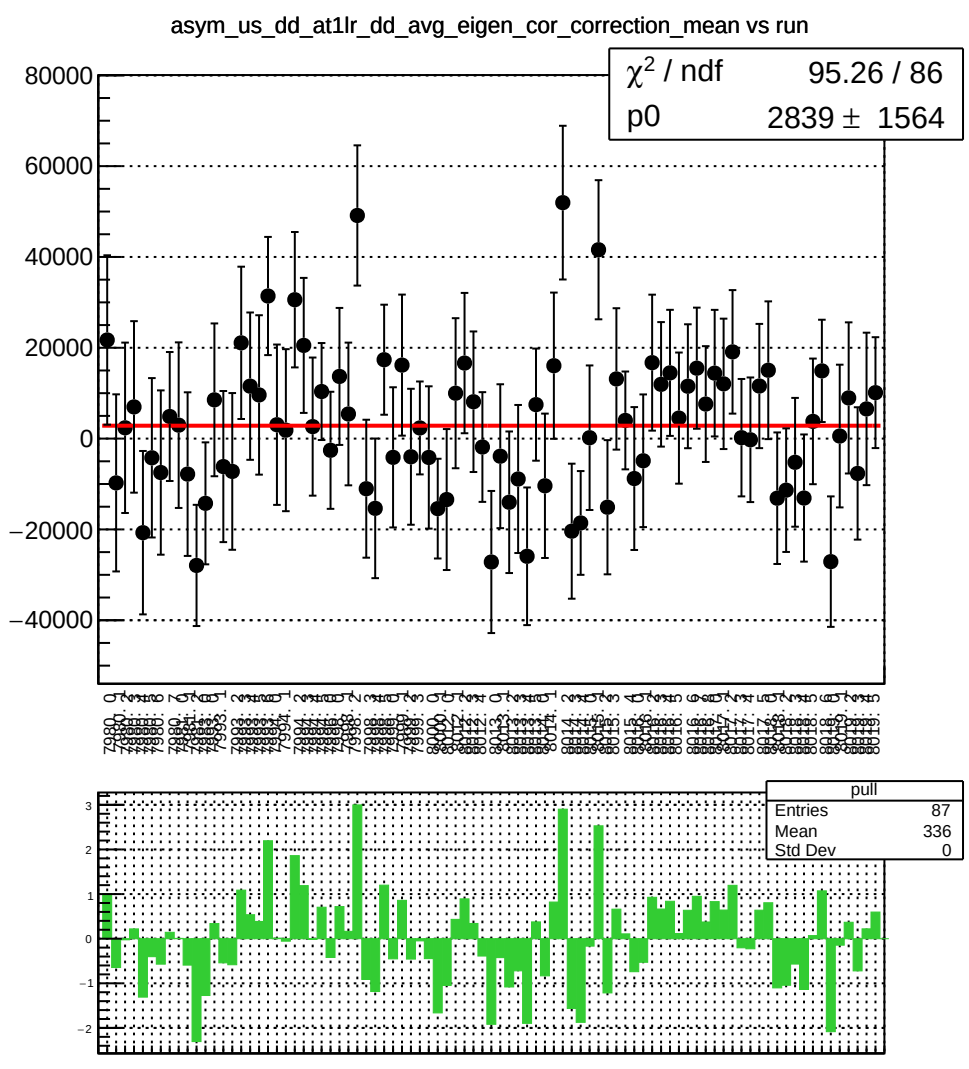

pull1D
Entries 87
Mean 0.001277
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

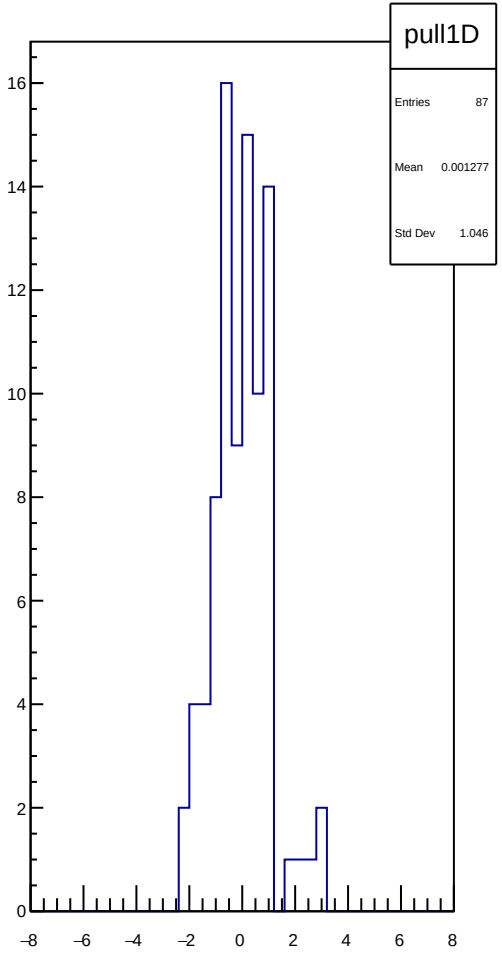

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.391e+04 / 86
p0 1462 ± 1.106
1900
1800
1700
1600
1500
1400
1300
1200

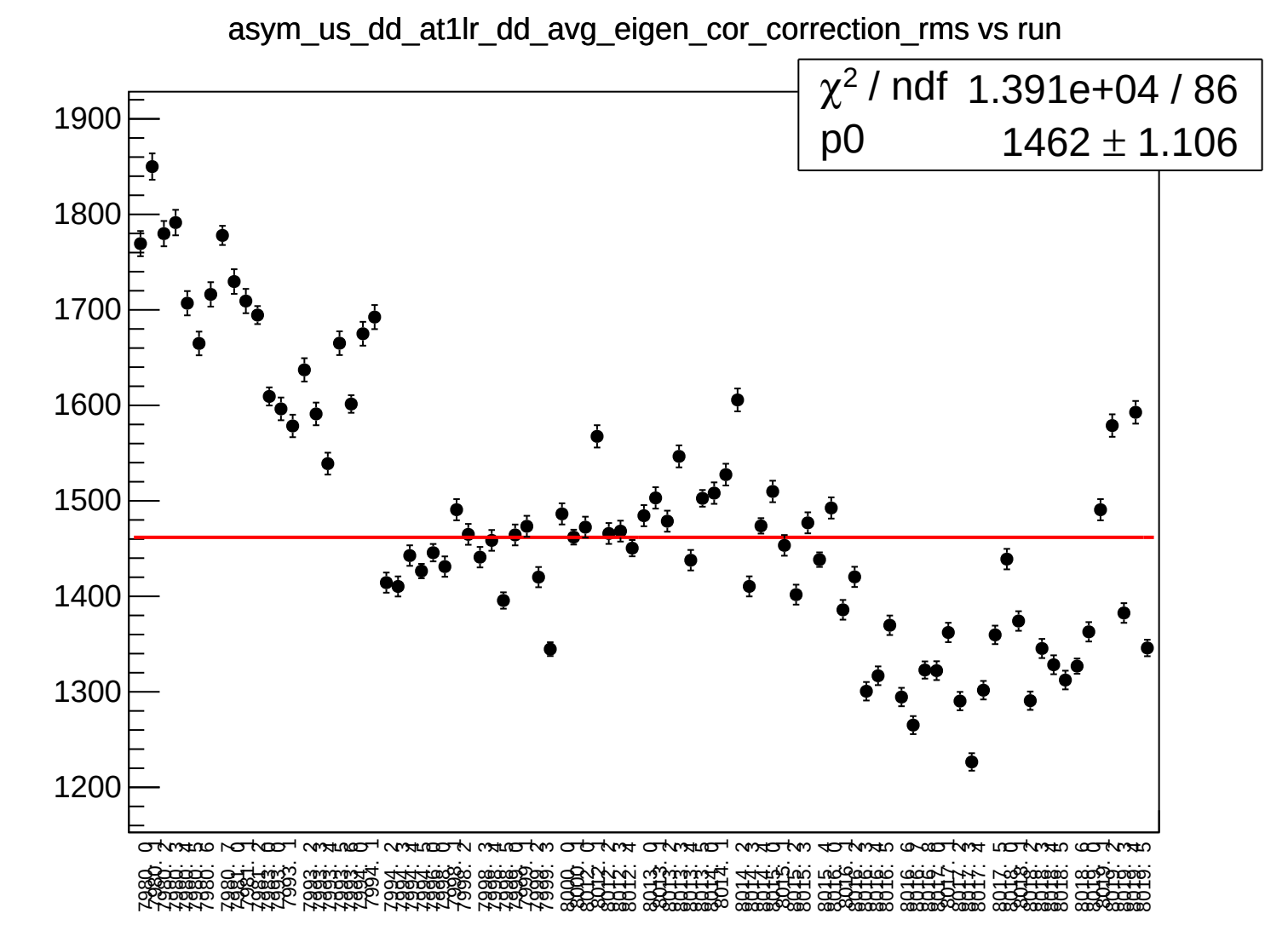

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 100.4 / 86
p0 −539 ± 2312
pull
Entries 87
Mean −112
Std Dev 0

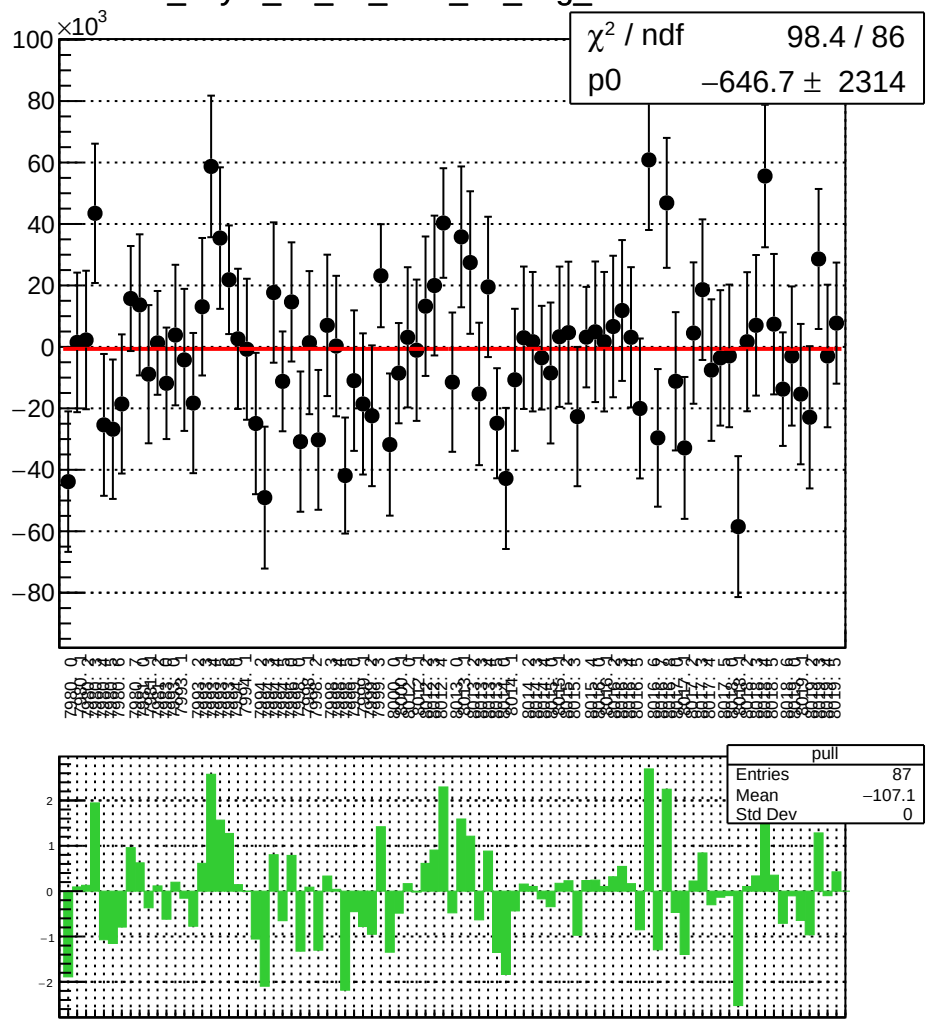

pull1D
Entries 87
Mean −0.00806
Std Dev 1.074

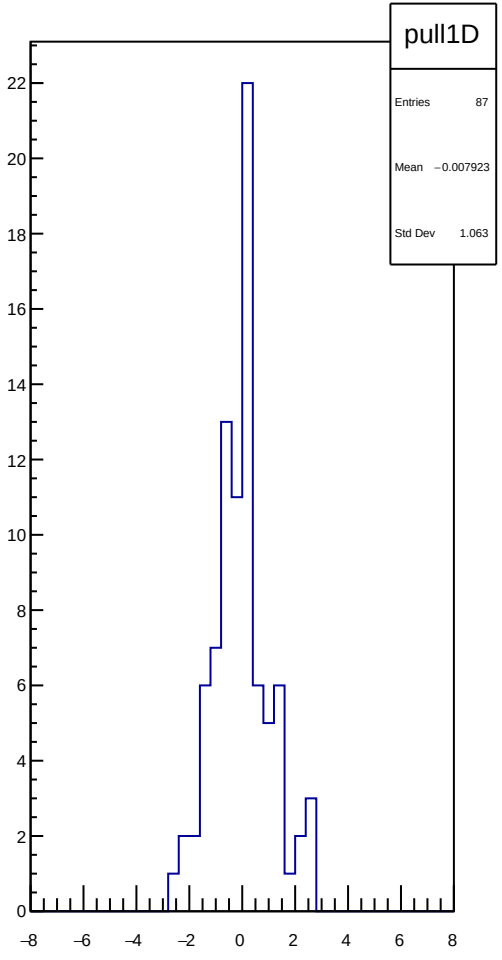

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 130.1 / 86
p0 2169 ± 1.635
2220
2200
2180
2160
2140
2120
2100

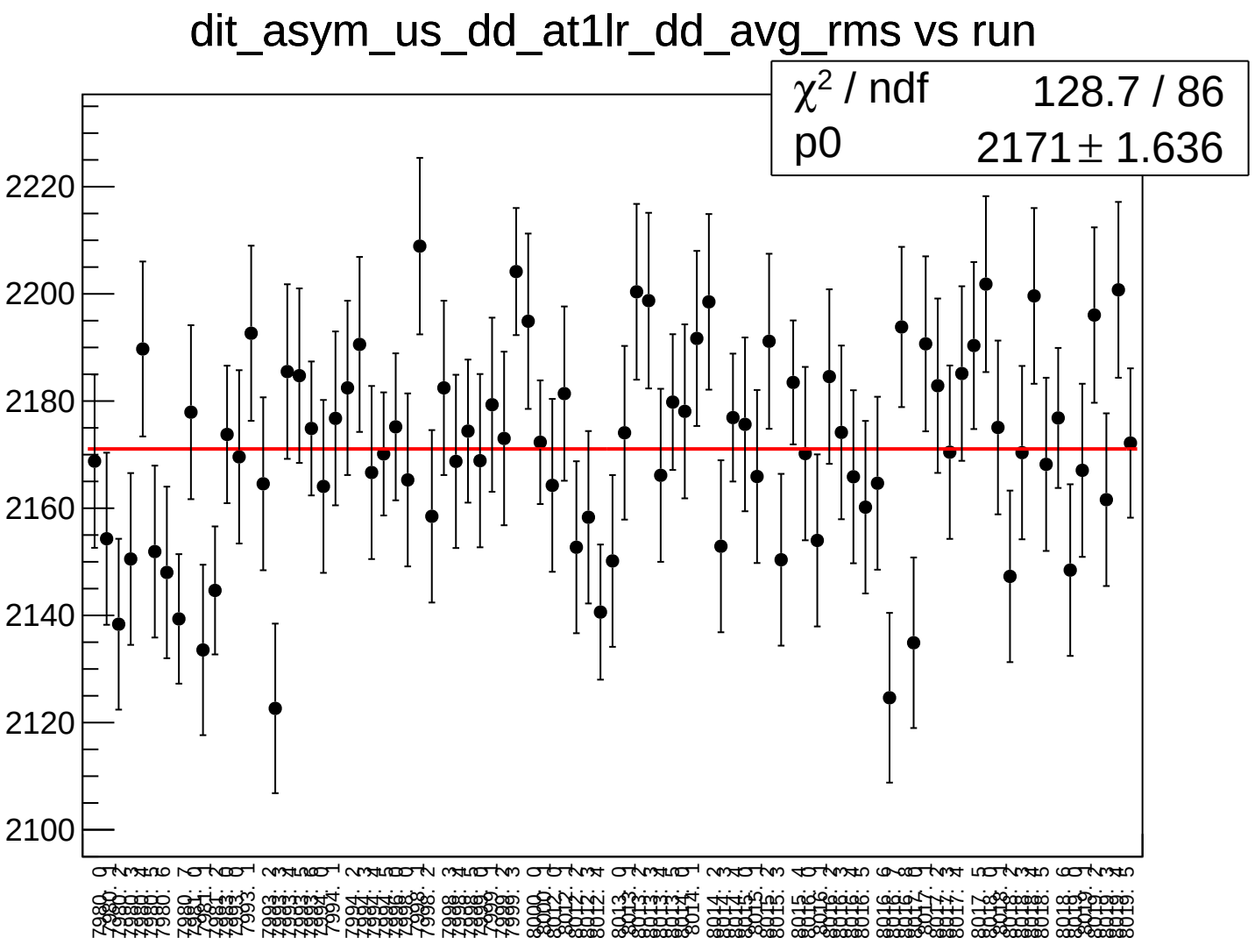

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.26 / 86
p0 2839 ± 1564
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 336
Std Dev 0
3
2
1
0
−1
−2

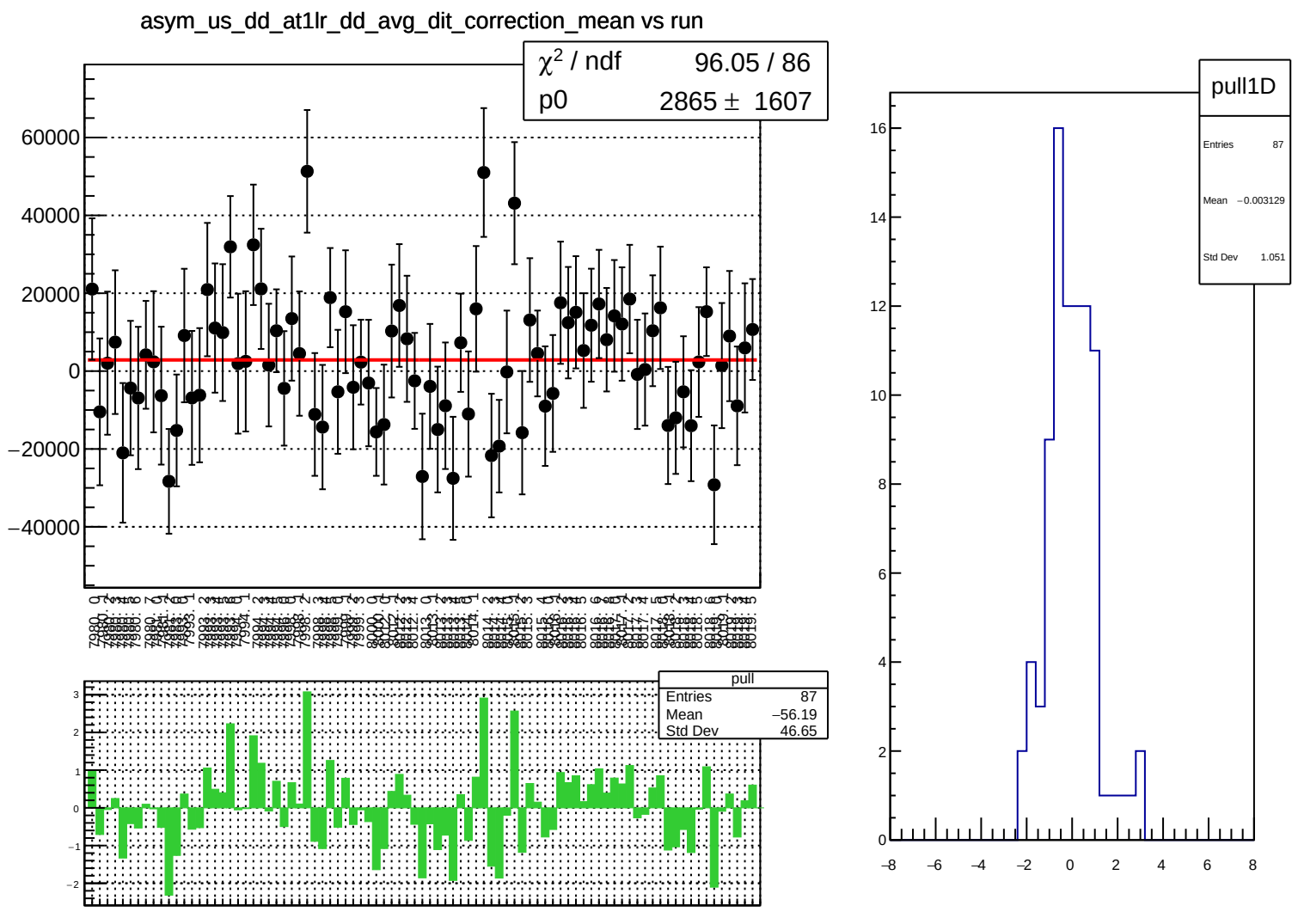

pull1D
Entries 87
Mean 0.001277
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

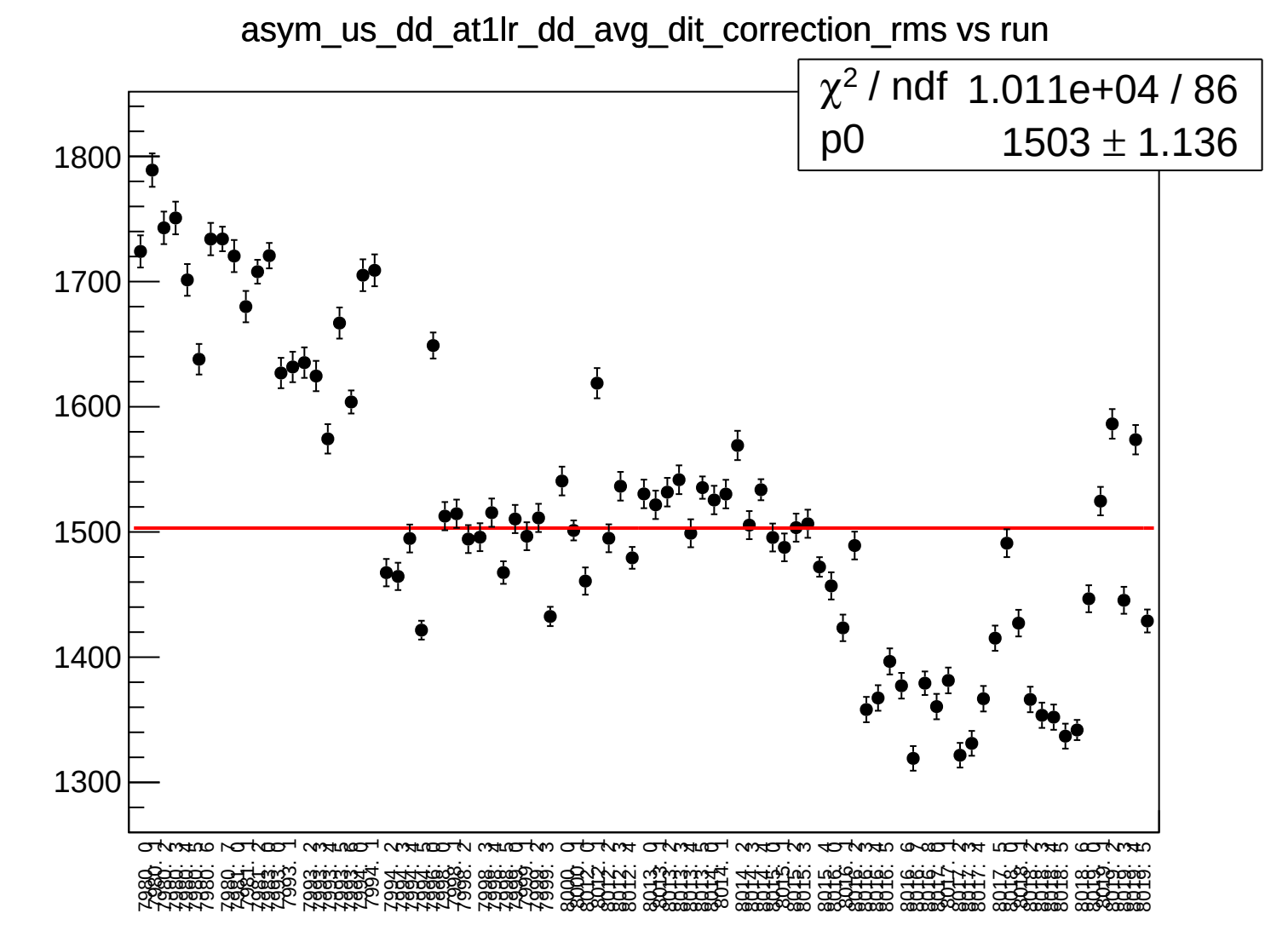

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.391e+04 / 86
p0 1462 ± 1.106
1900
1800
1700
1600
1500
1400
1300
1200

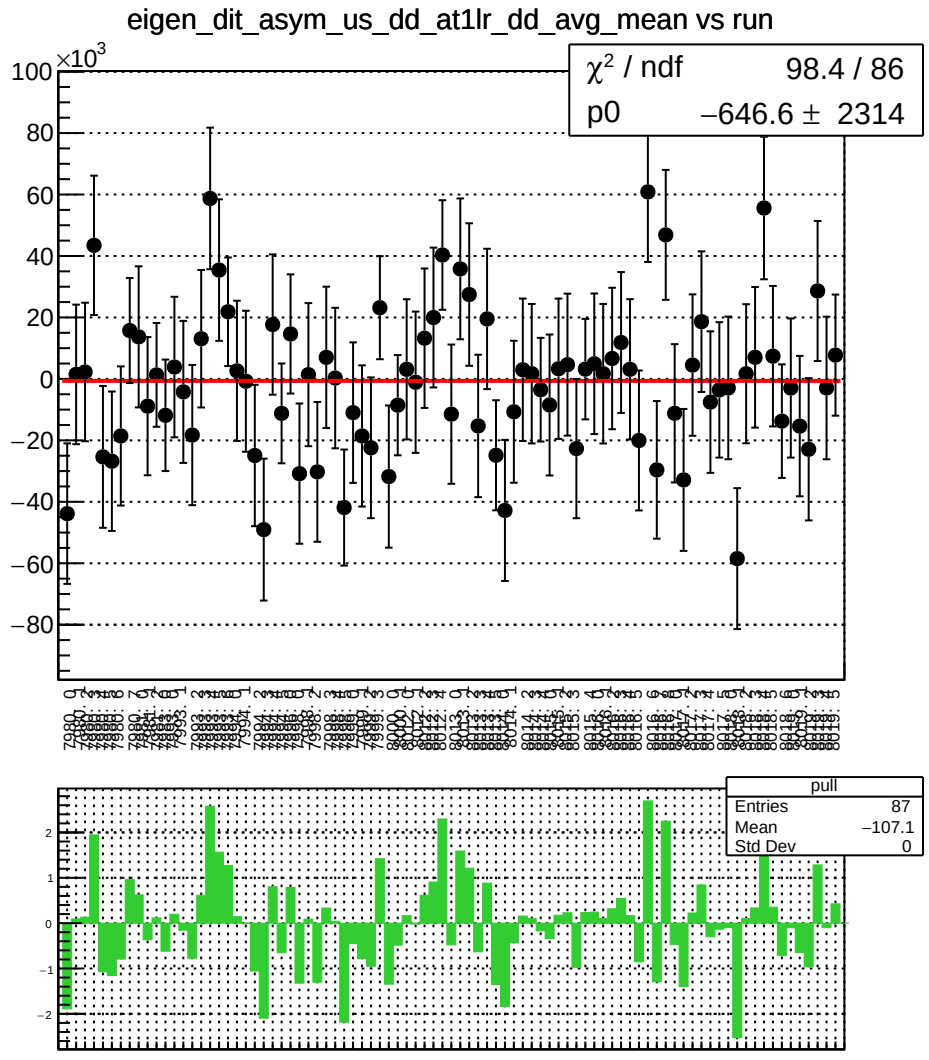

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 98.4 / 86
p0 −646.7 ± 2314
×10³
pull
Entries 87
Mean −107.1
Std Dev 0

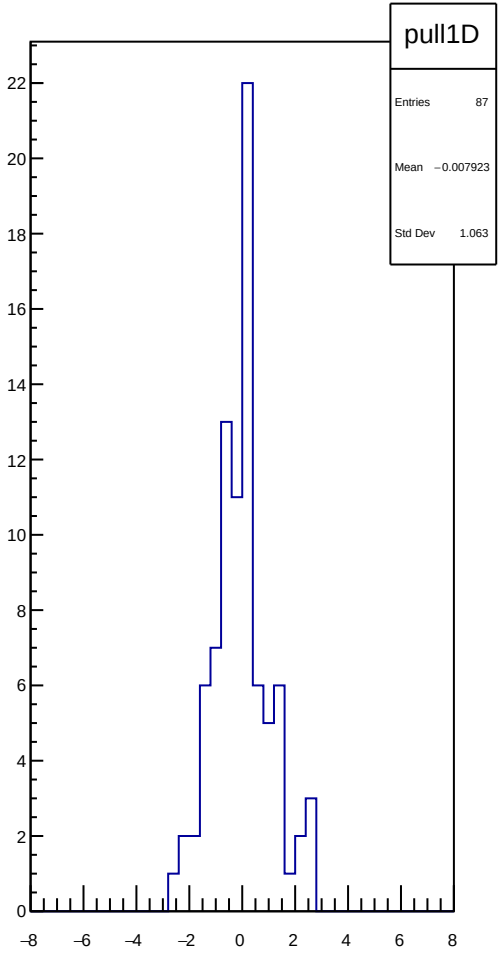

pull1D
Entries 87
Mean −0.007923
Std Dev 1.063

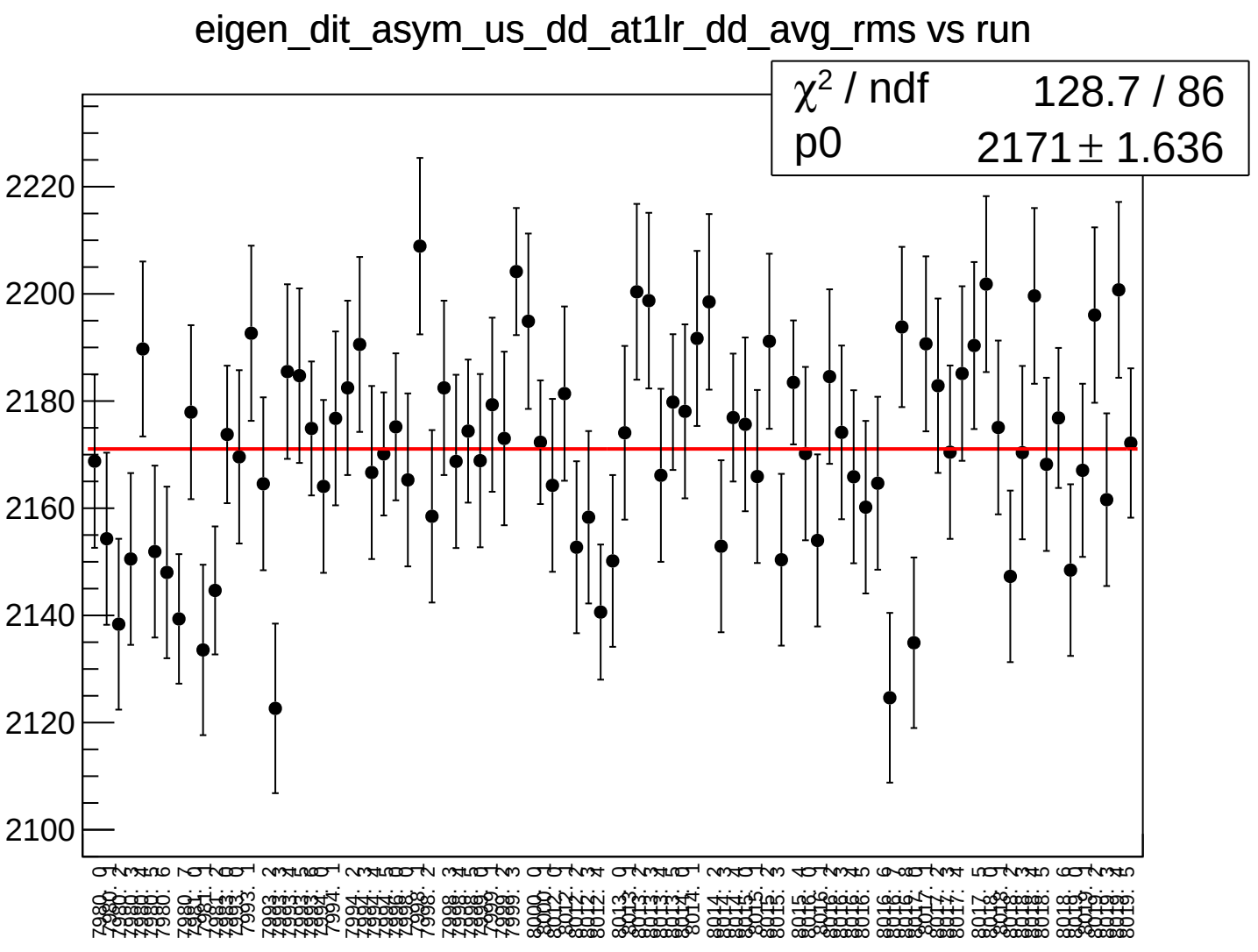

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 128.7 / 86
p0 2171 ± 1.636
2220
2200
2180
2160
2140
2120
2100

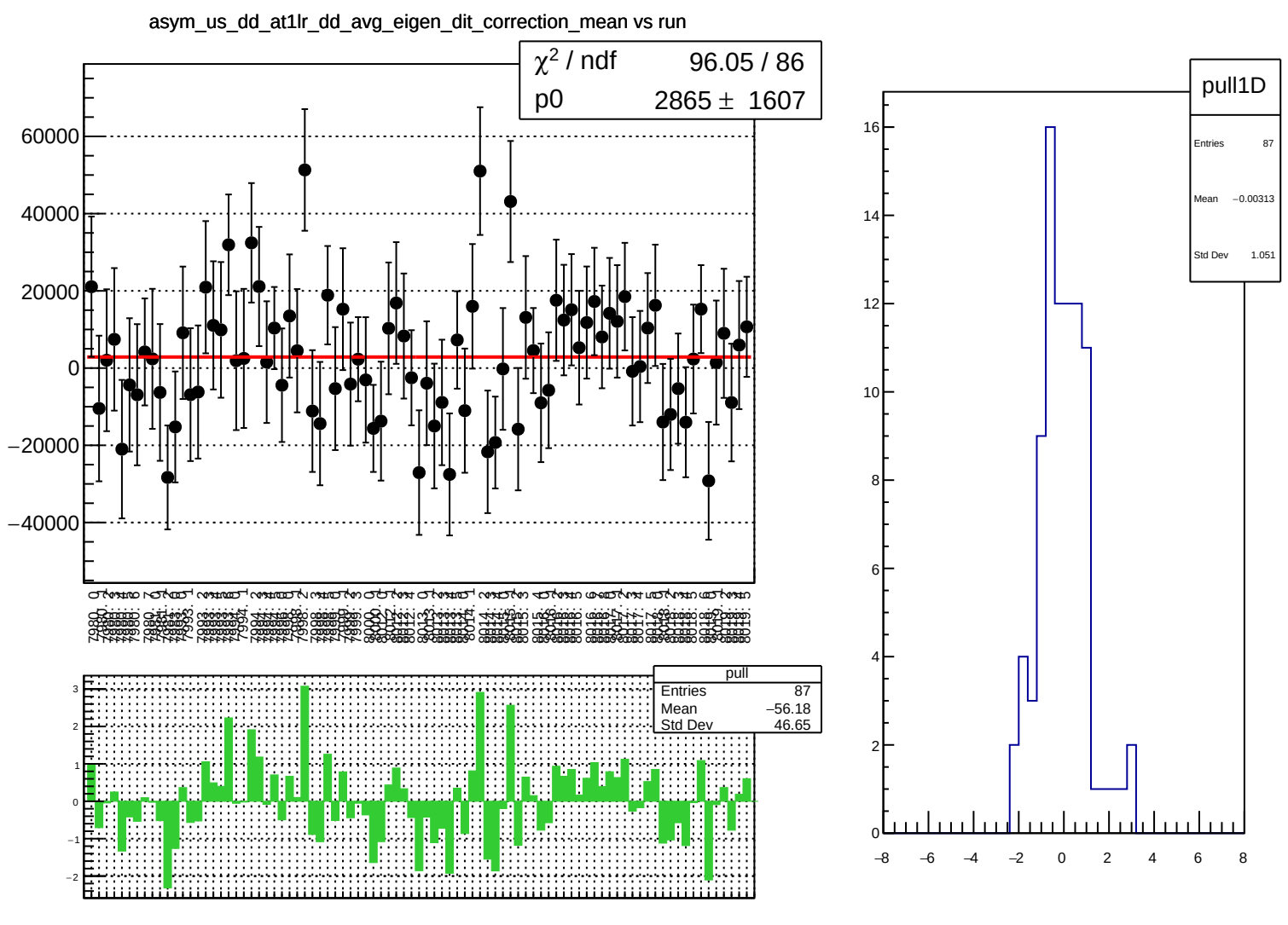

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 96.05 / 86
p0 2865 ± 1607
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −56.19
Std Dev 46.65
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.003129
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

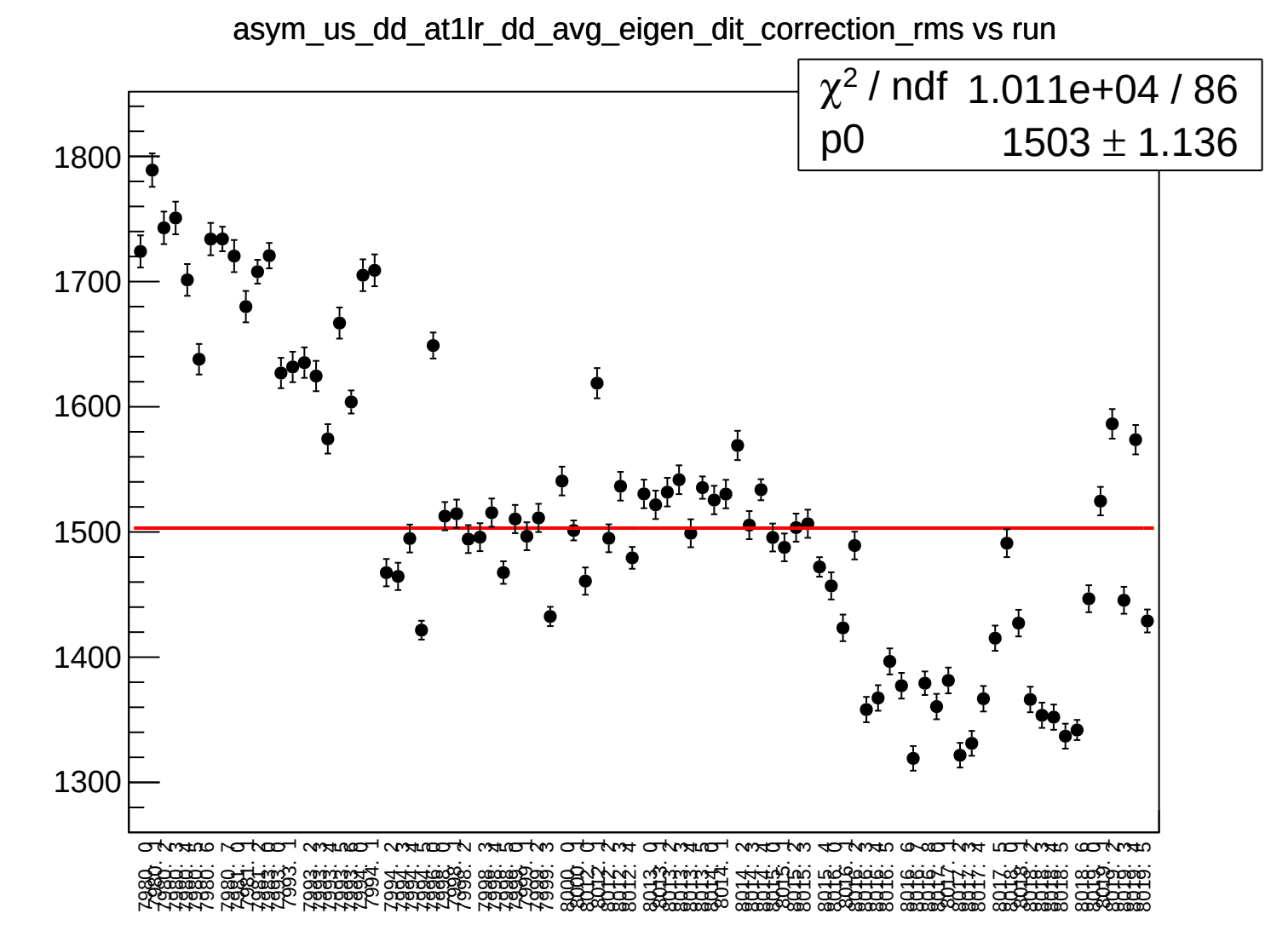

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.011e+04 / 86
p0 1503 ± 1.136
1800
1700
1600
1500
1400
1300

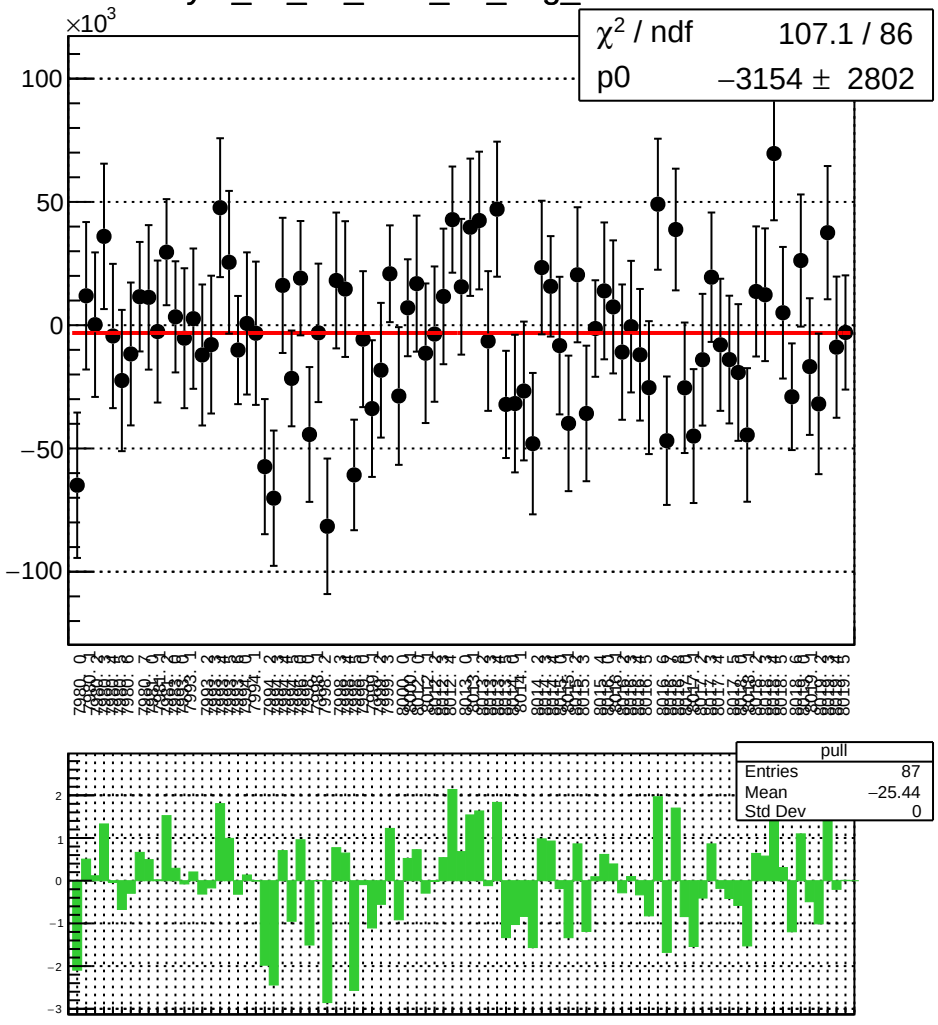

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 98.4 / 86
p0 −646.6 ± 2314
×10³
pull
Entries 87
Mean −107.1
Std Dev 0

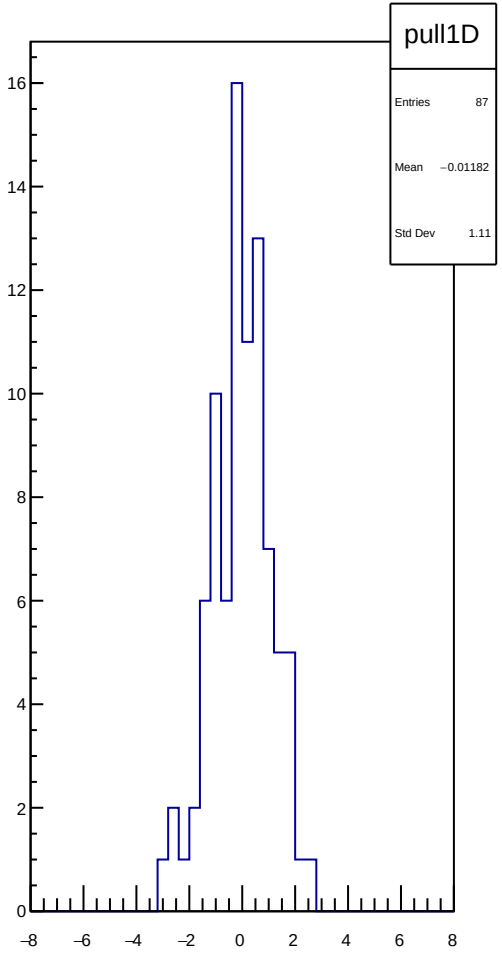

pull1D
Entries 87
Mean −0.007923
Std Dev 1.063

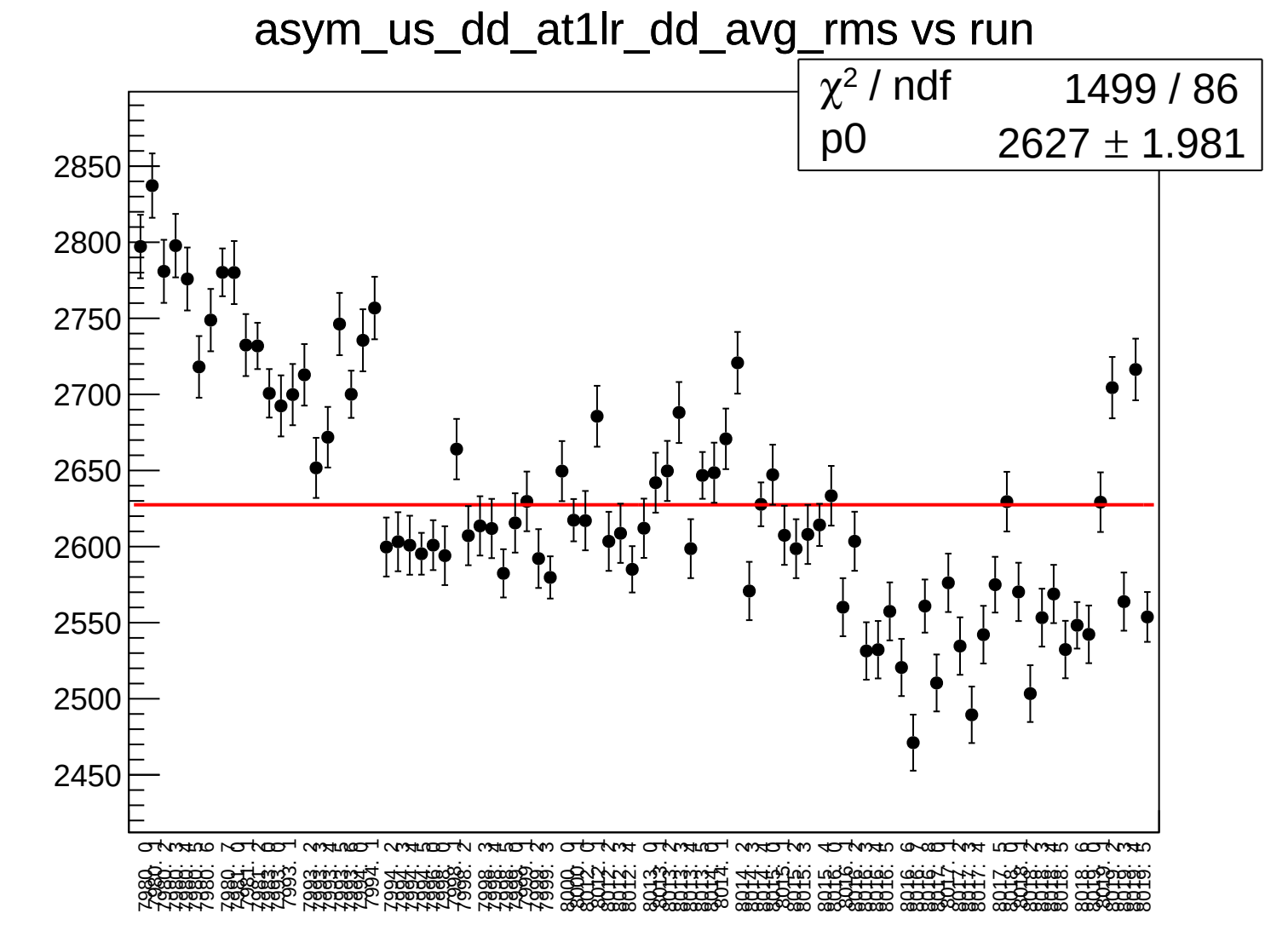

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 128.7 / 86
p0 2171 ± 1.636
2220
2200
2180
2160
2140
2120
2100

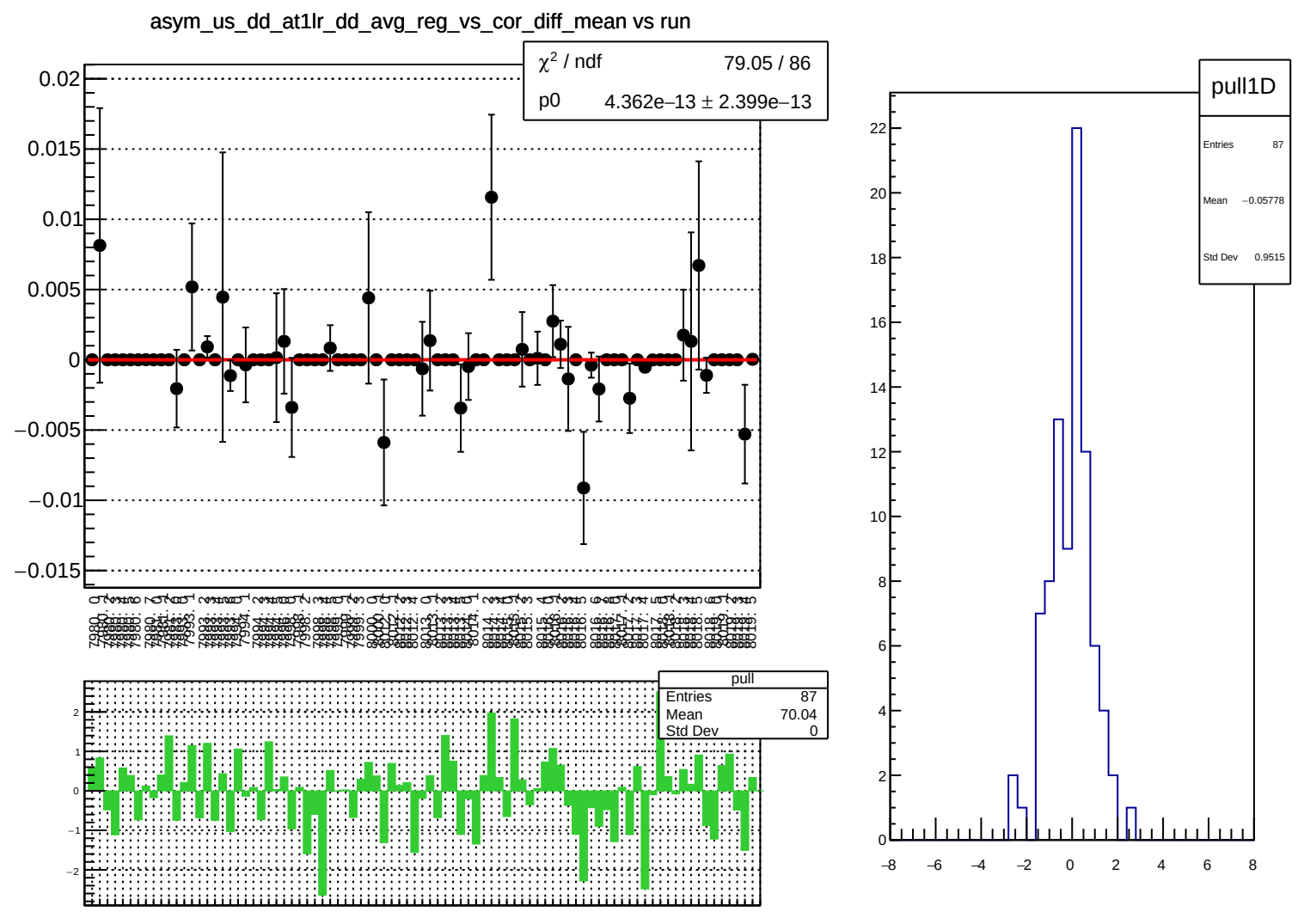

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.05 / 86
p0 2865 ± 1607
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −56.18
Std Dev 46.65
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.00313
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

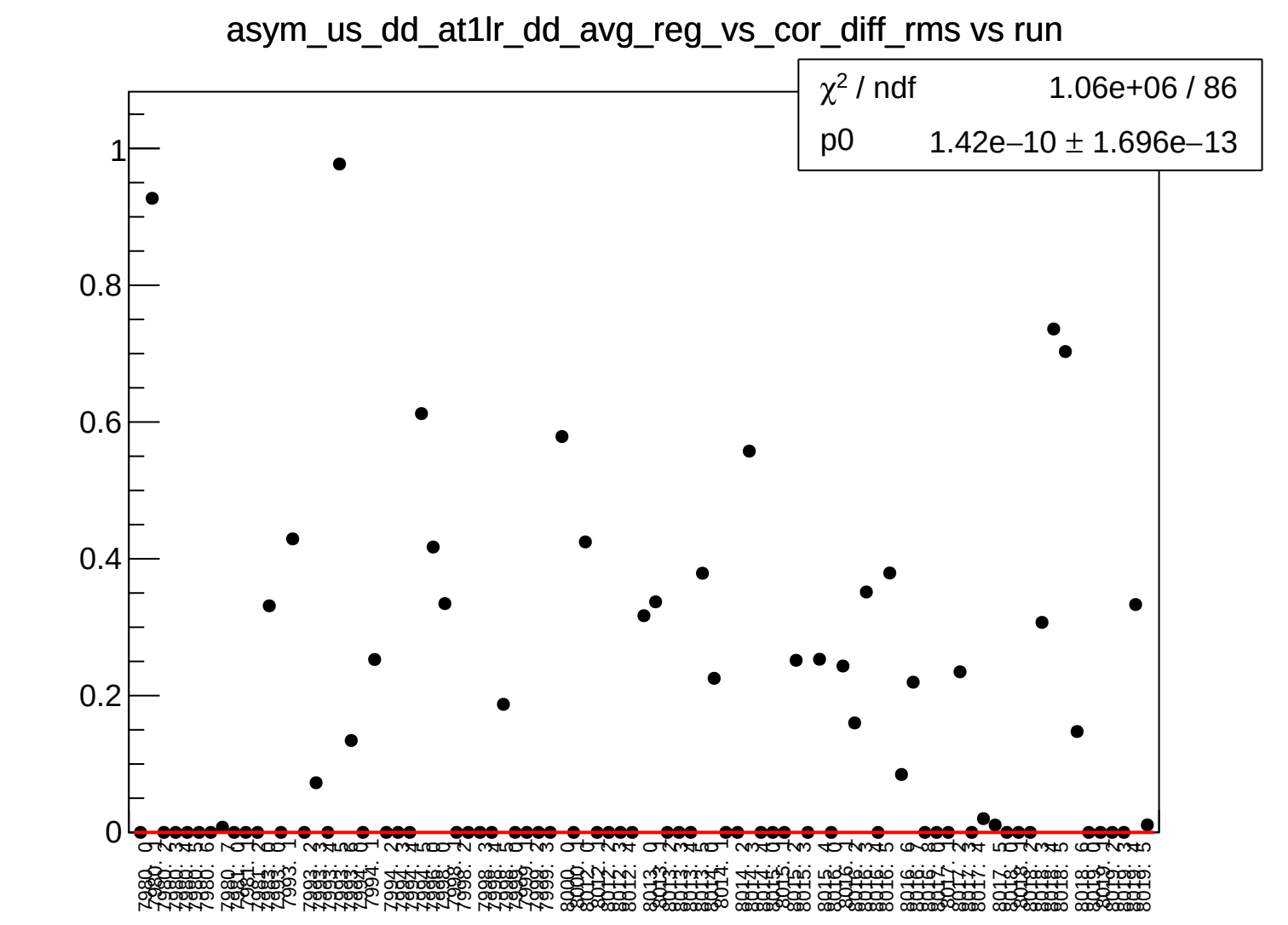

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.011e+04 / 86
p0 1503 ± 1.136
1800
1700
1600
1500
1400
1300

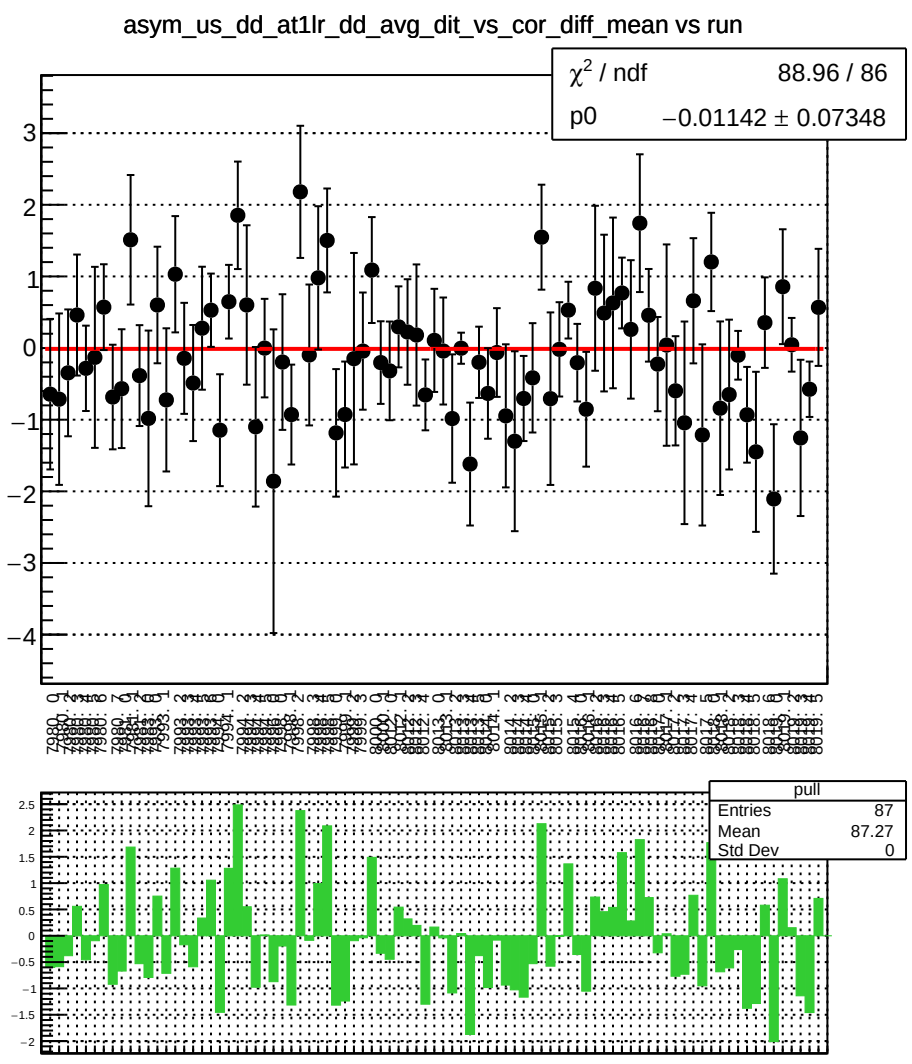

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 107.1 / 86
p0 −3154 ± 2802
100
50
0
−50
−100
pull
Entries 87
Mean −25.44
Std Dev 0
2
1
0
−1
−2
−3

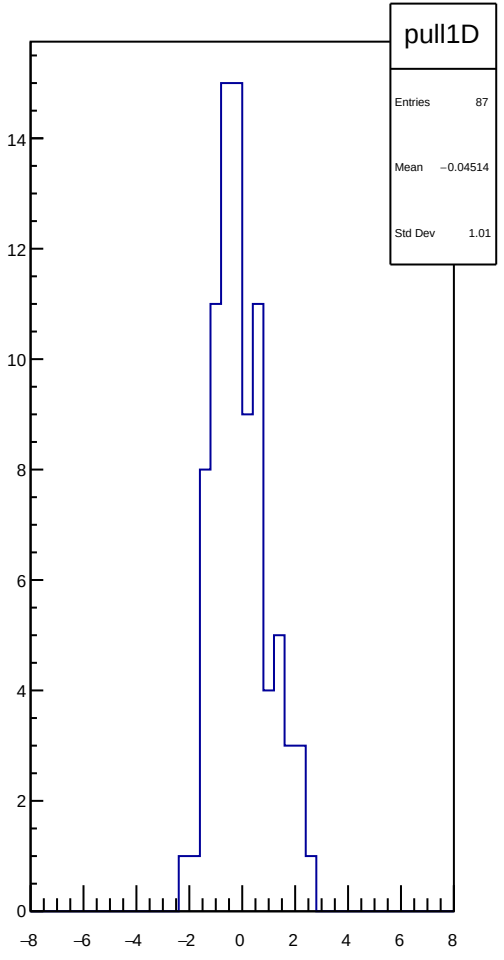

pull1D
Entries 87
Mean −0.01182
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

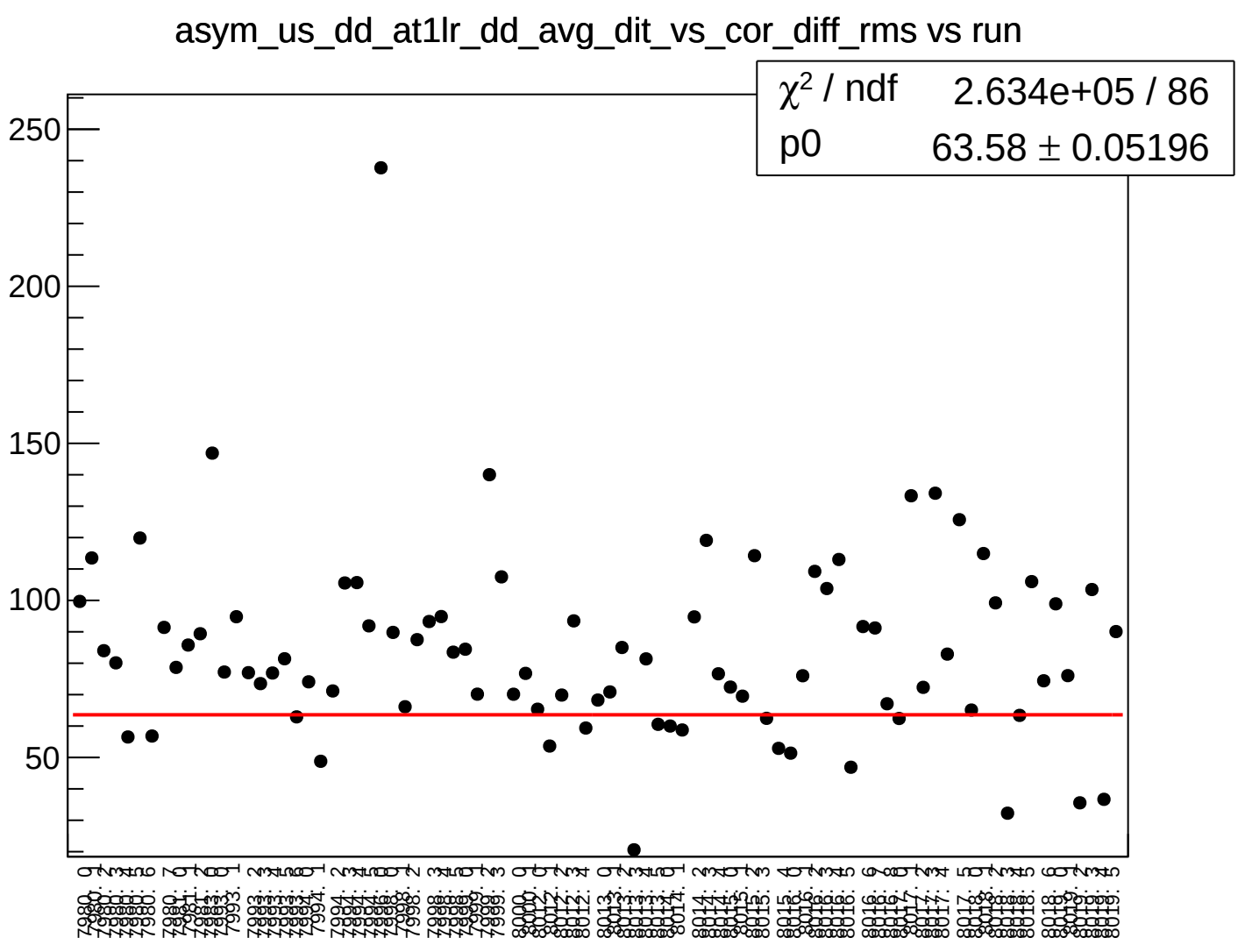

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1499 / 86
p0 2627 ± 1.981
2850
2800
2750
2700
2650
2600
2550
2500
2450

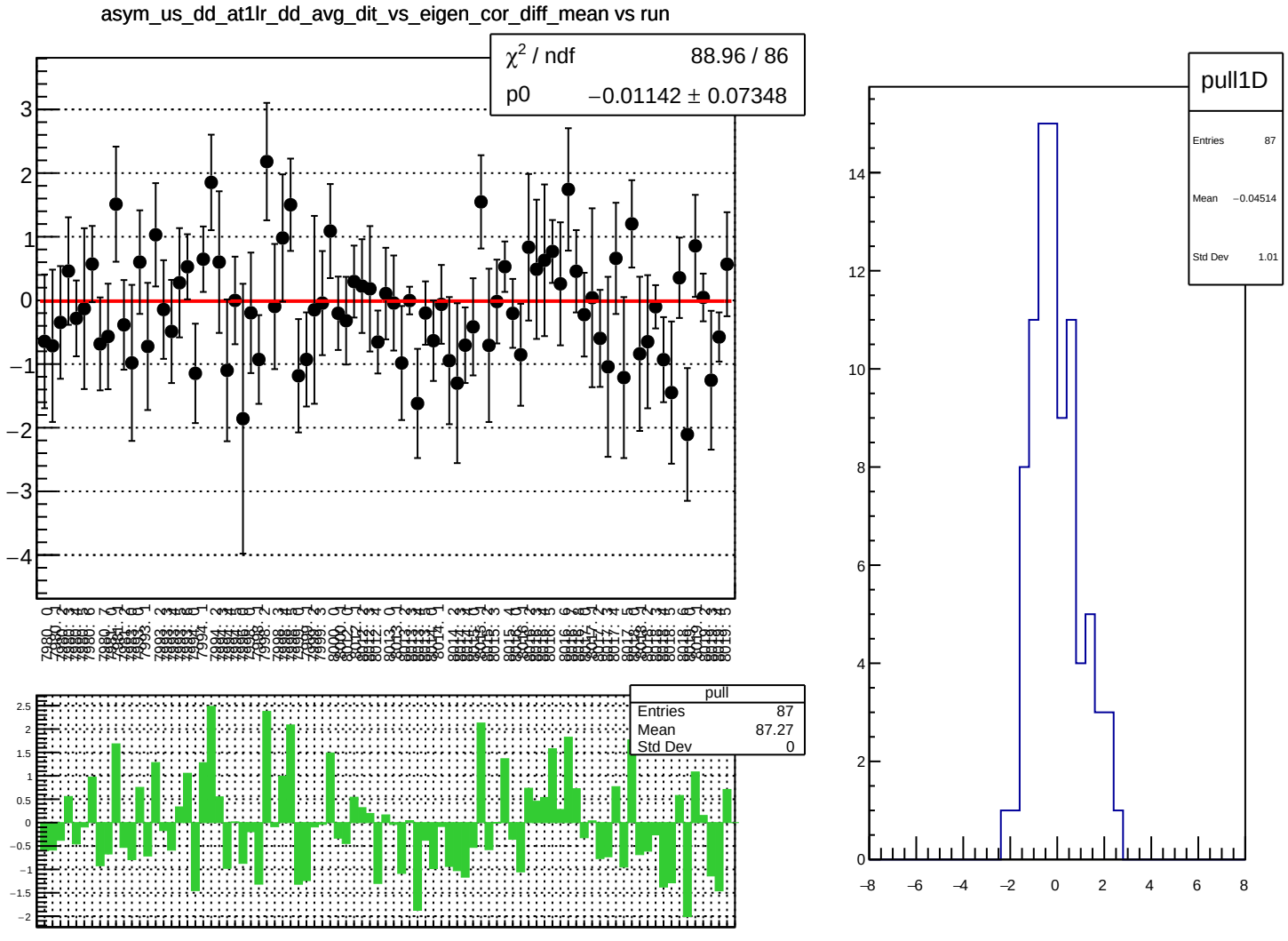

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.05 / 86
p0 4.362e−13 ± 2.399e−13
pull
Entries 87
Mean 70.04
Std Dev 0
pull1D
Entries 87
Mean −0.05778
Std Dev 0.9515

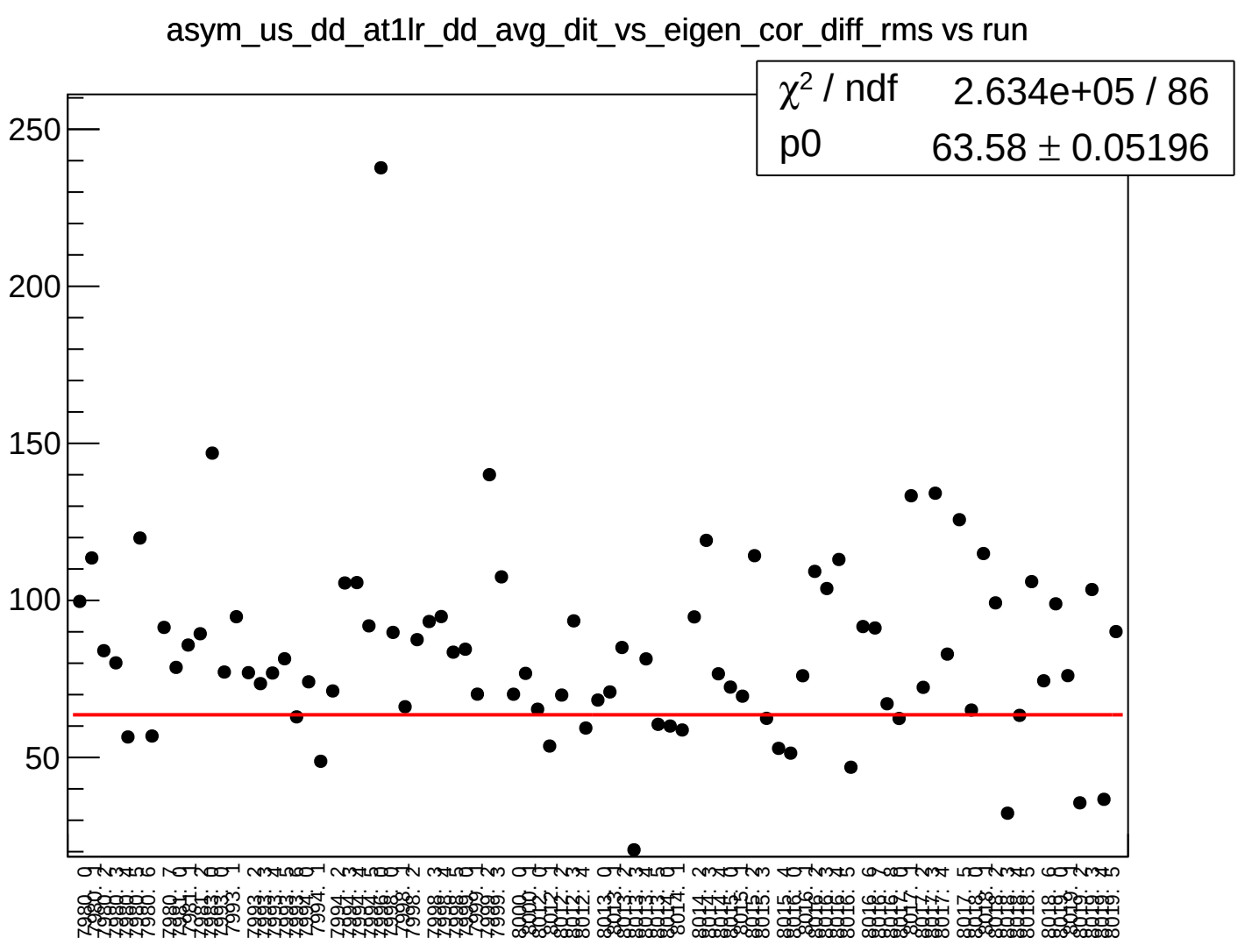

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.06e+06 / 86
p0 1.42e−10 ± 1.696e−13
1
0.8
0.6
0.4
0.2
0

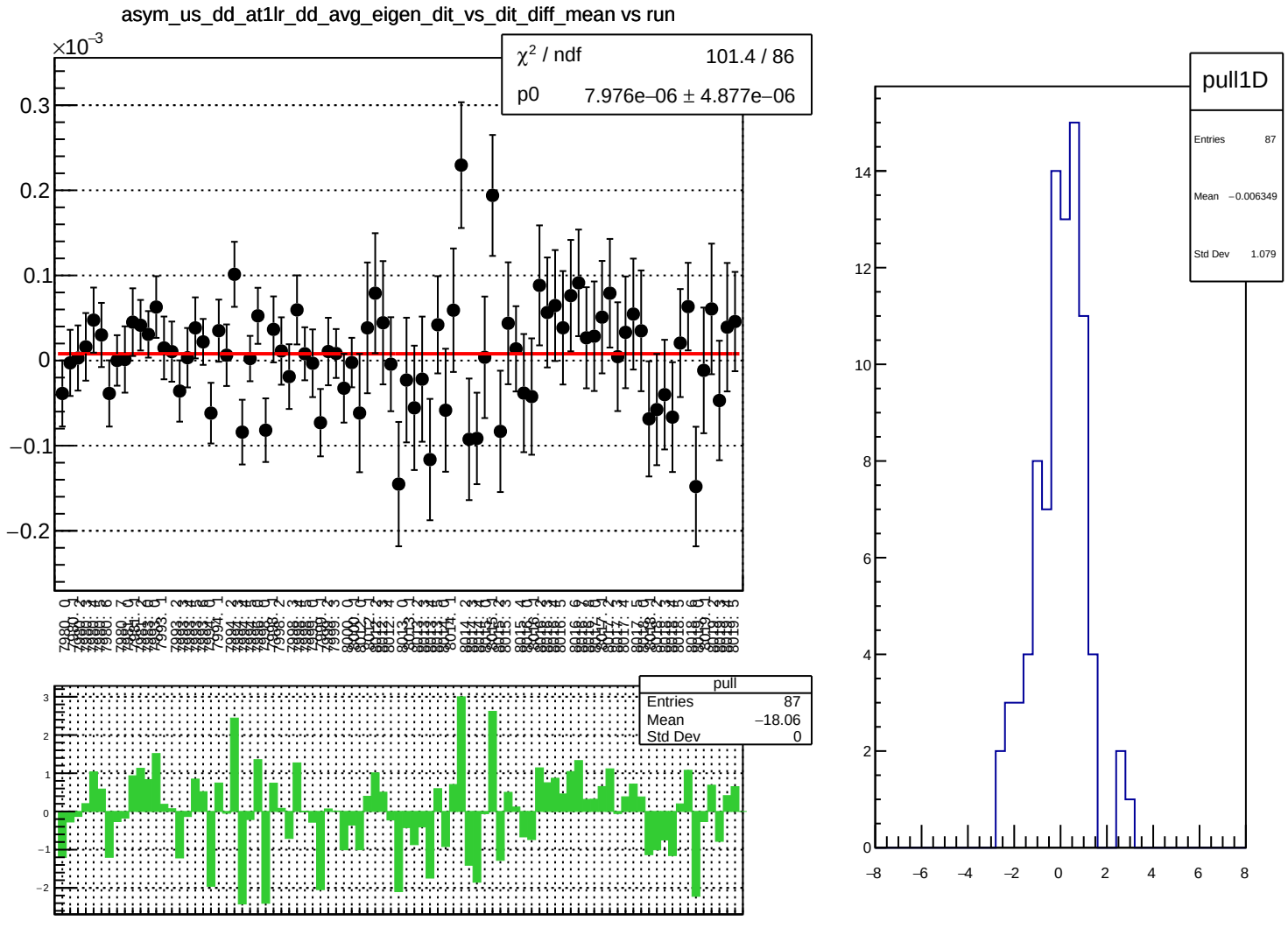

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.96 / 86
p0 −0.01142 ± 0.07348
pull
Entries 87
Mean 87.27
Std Dev 0

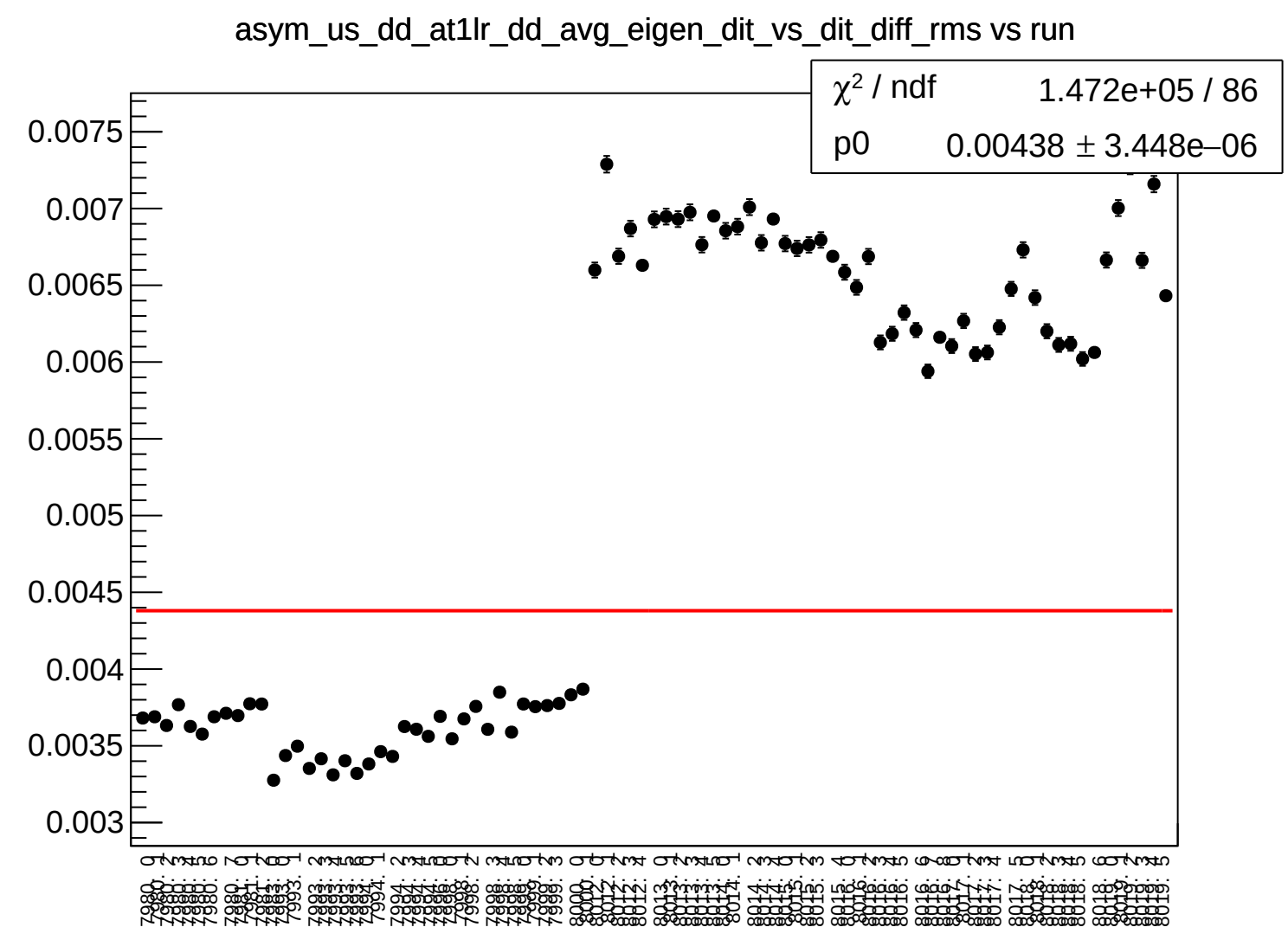

pull1D
Entries 87
Mean −0.04514
Std Dev 1.01

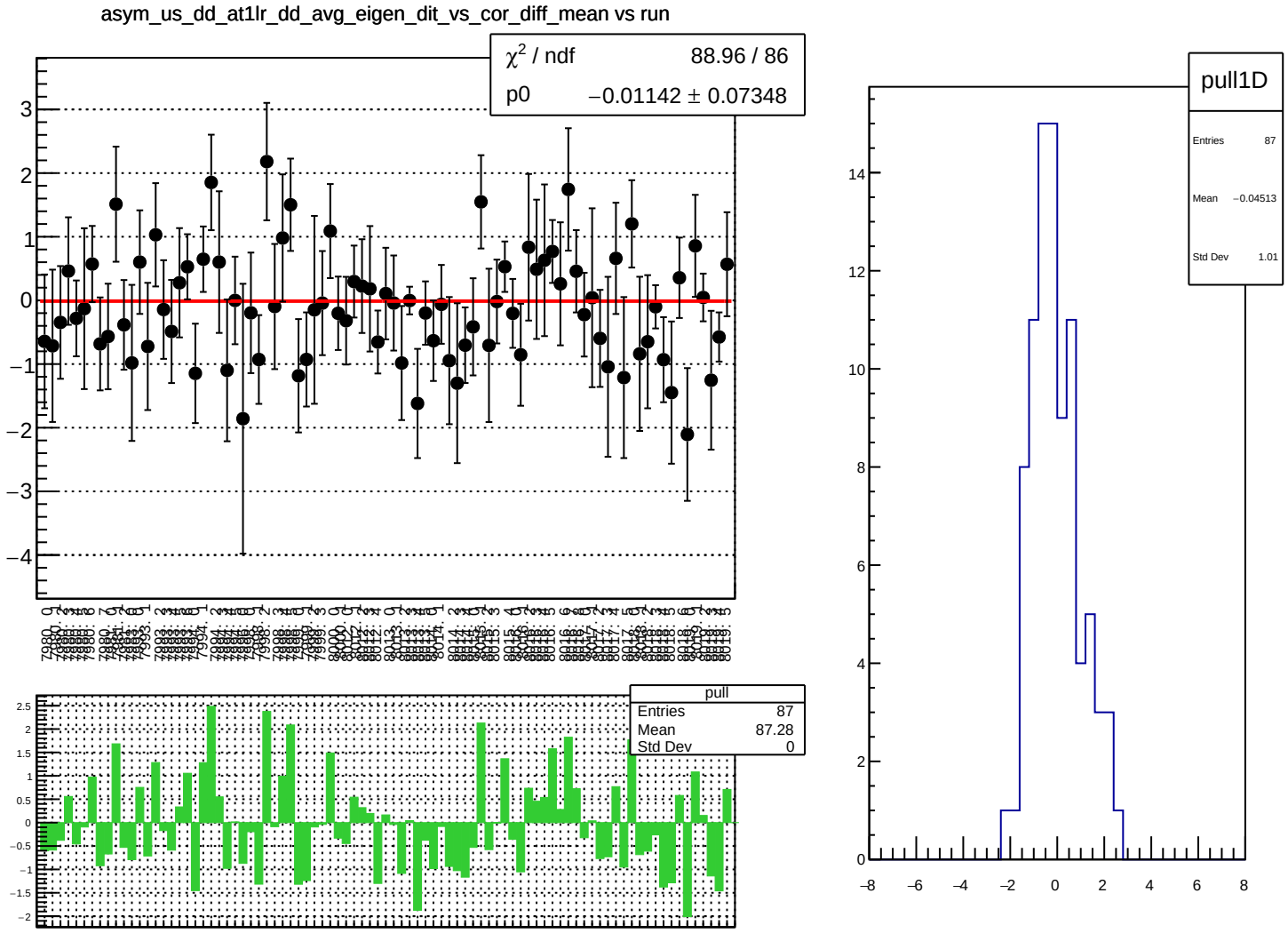

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.634e+05 / 86
p0 63.58 ± 0.05196
250
200
150
100
50

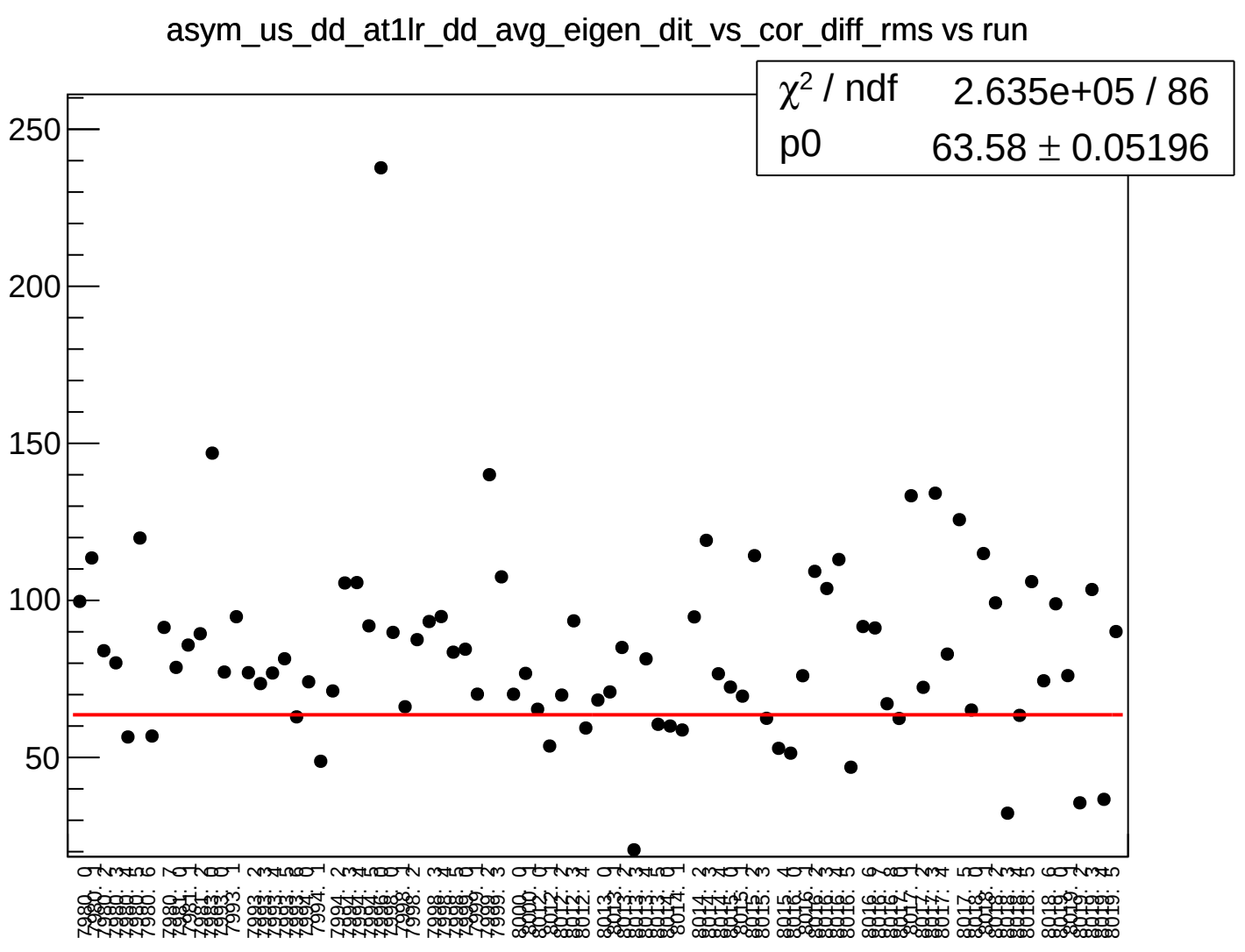

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.96 / 86
p0 −0.01142 ± 0.07348
pull
Entries 87
Mean 87.27
Std Dev 0
pull1D
Entries 87
Mean −0.04514
Std Dev 1.01

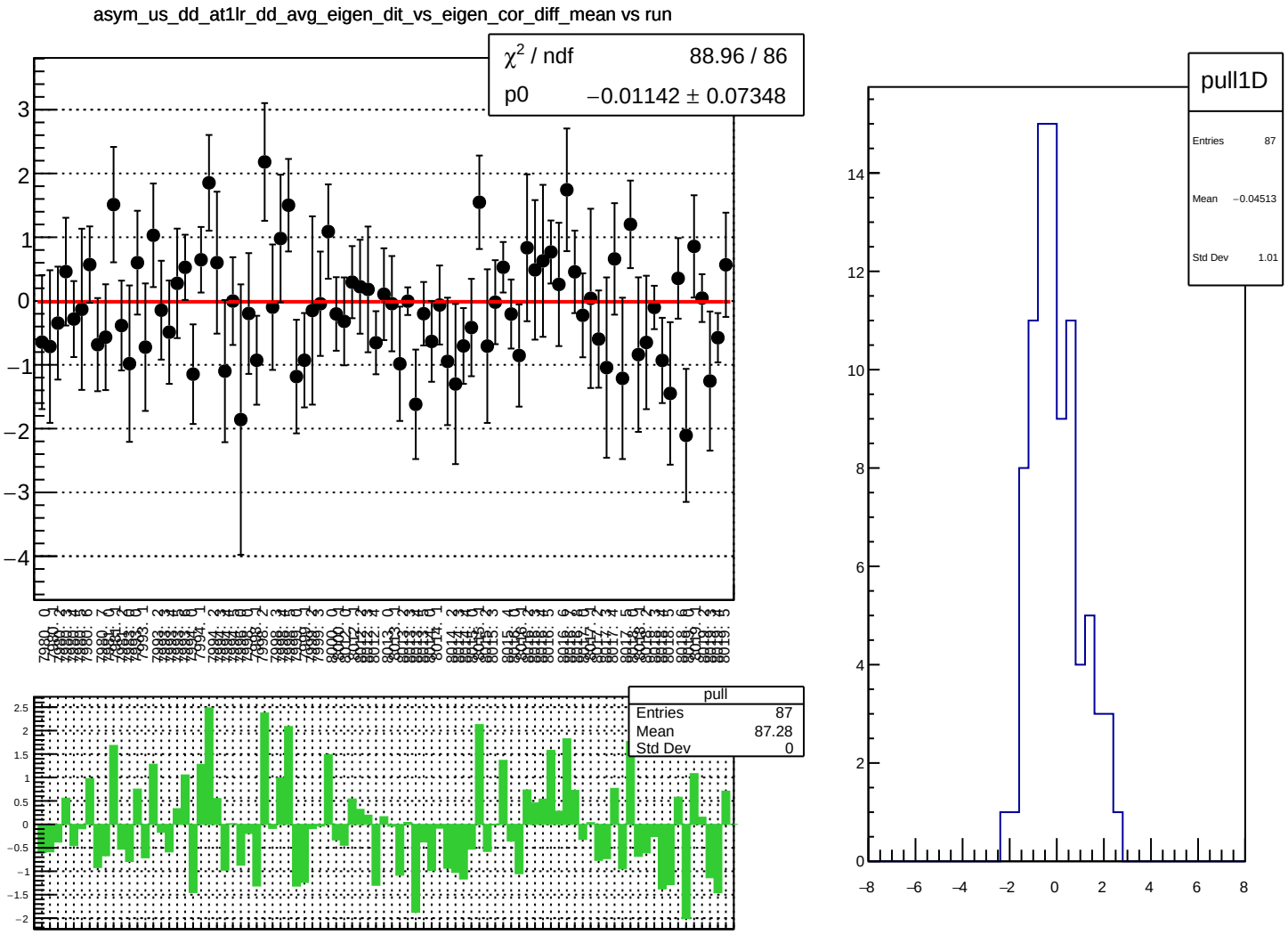

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.634e+05 / 86
p0 63.58 ± 0.05196
250
200
150
100
50

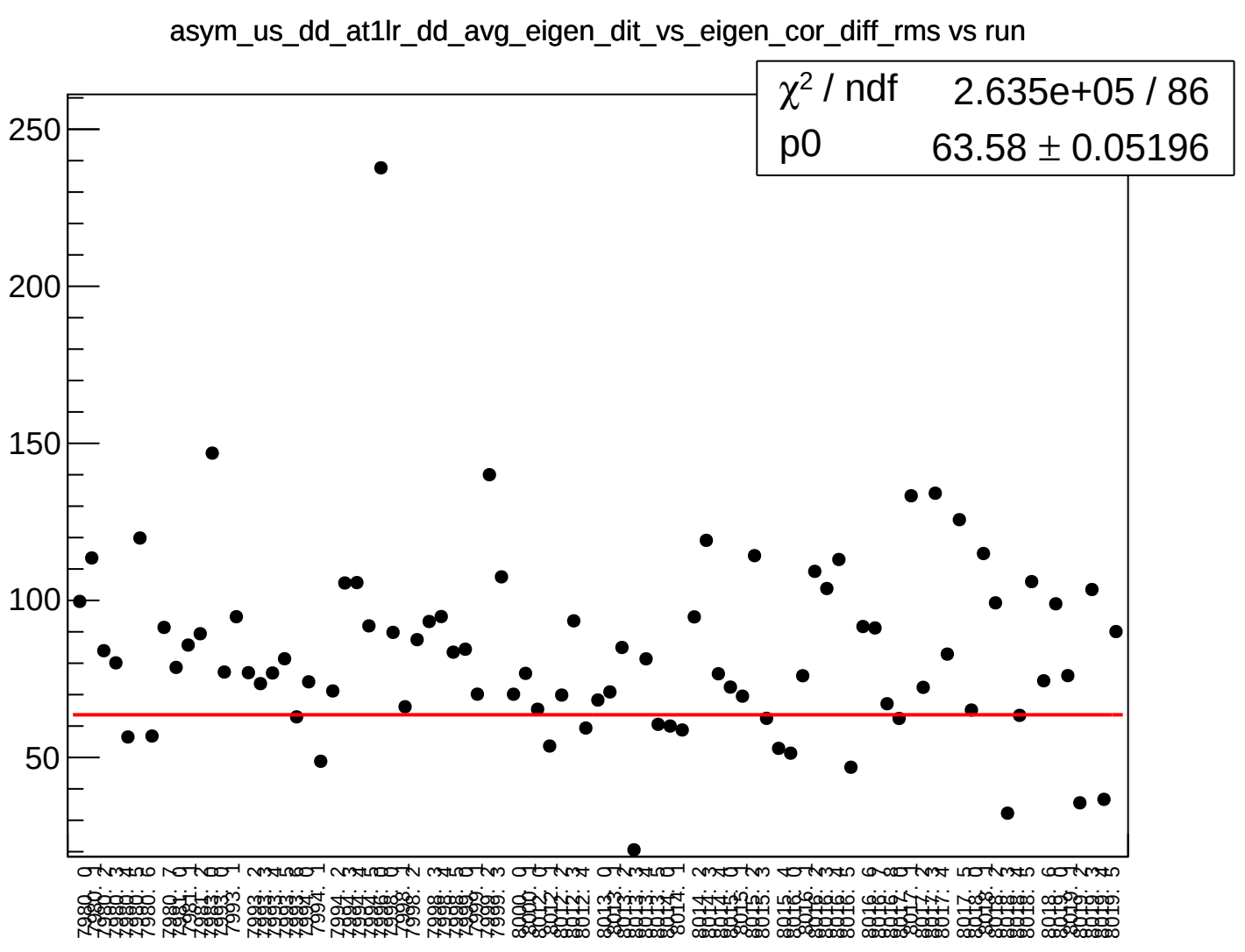

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.4 / 86
p0 7.976e−06 ± 4.877e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 87
Mean −18.06
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.006349
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

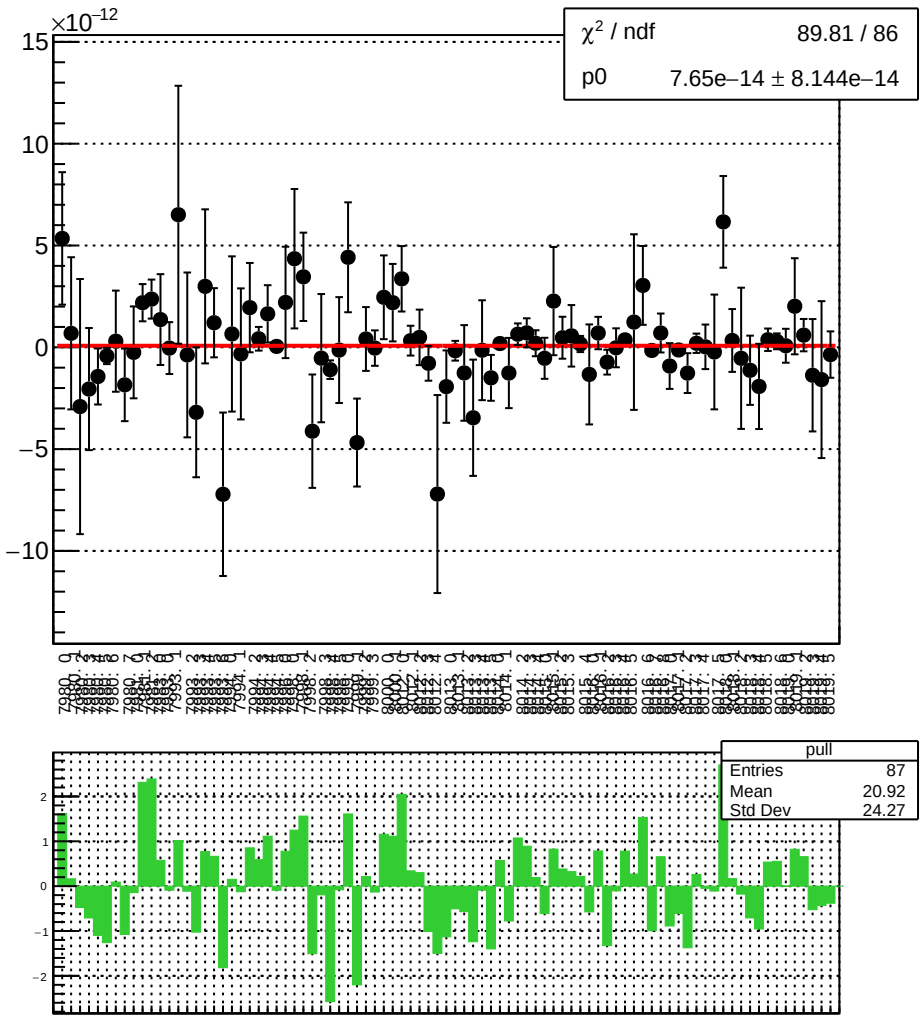

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.472e+05 / 86
p0 0.00438 ± 3.448e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

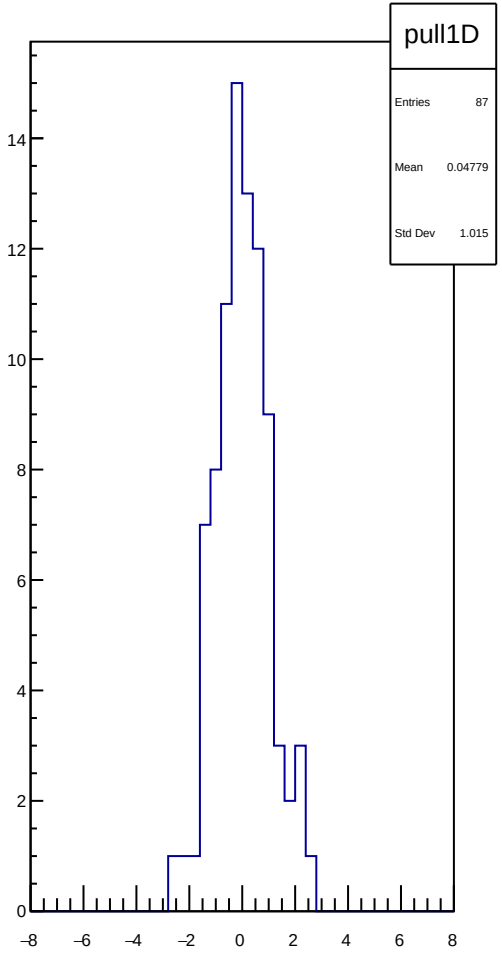

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.96 / 86
p0 −0.01142 ± 0.07348
pull
Entries 87
Mean 87.28
Std Dev 0
pull1D
Entries 87
Mean −0.04513
Std Dev 1.01

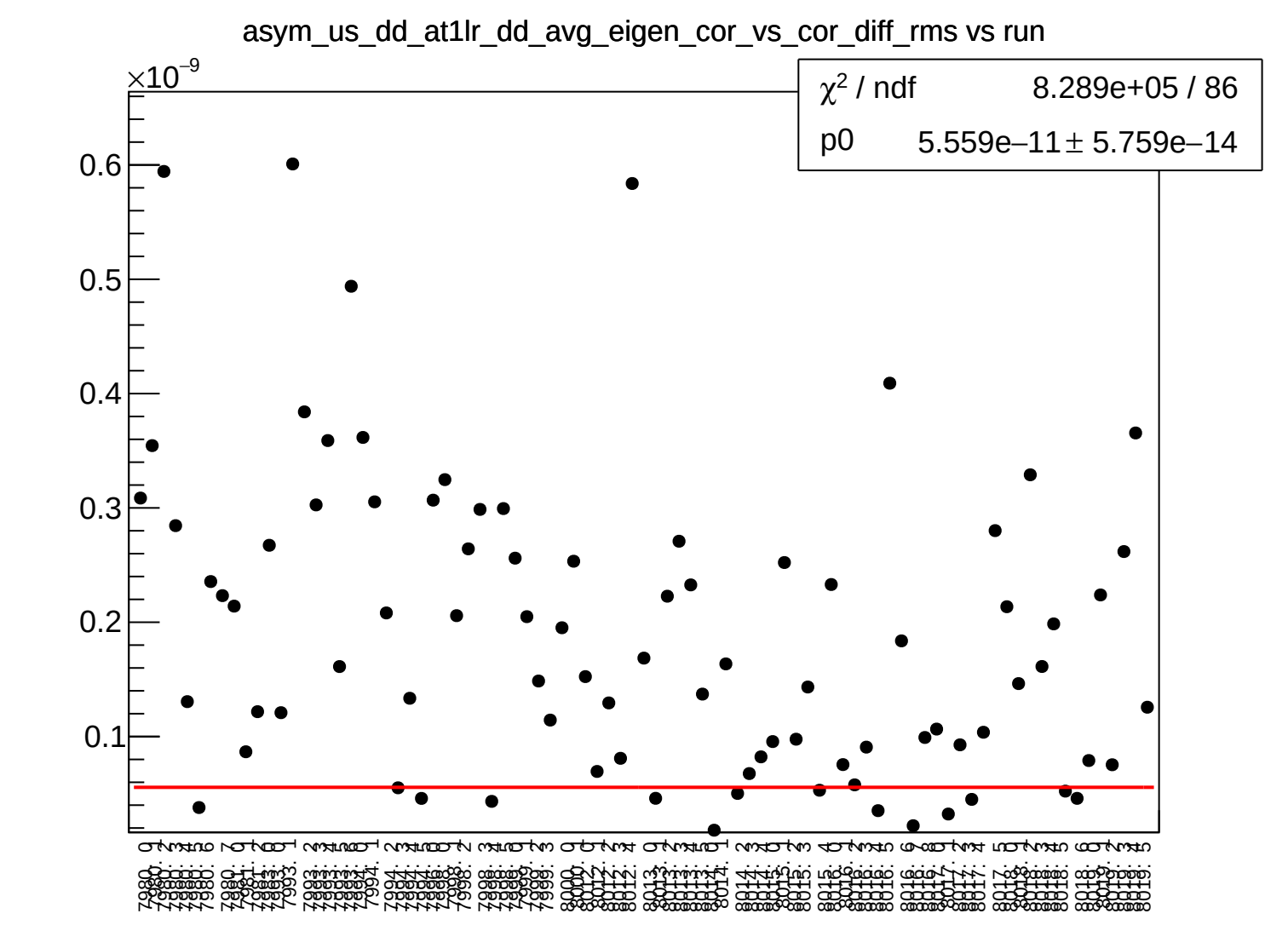

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.635e+05 / 86
p0 63.58 ± 0.05196
250
200
150
100
50

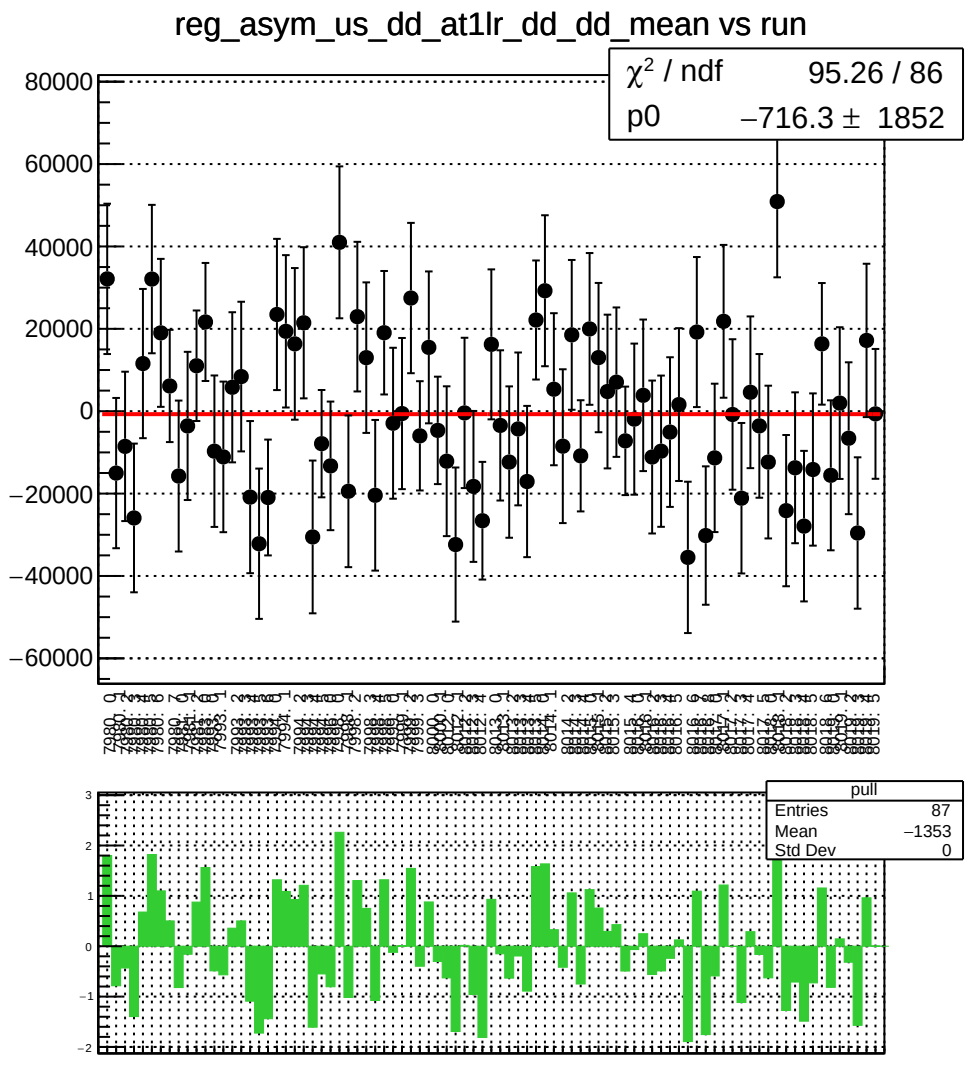

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.96 / 86
p0 −0.01142 ± 0.07348
pull
Entries 87
Mean 87.28
Std Dev 0
pull1D
Entries 87
Mean −0.04513
Std Dev 1.01

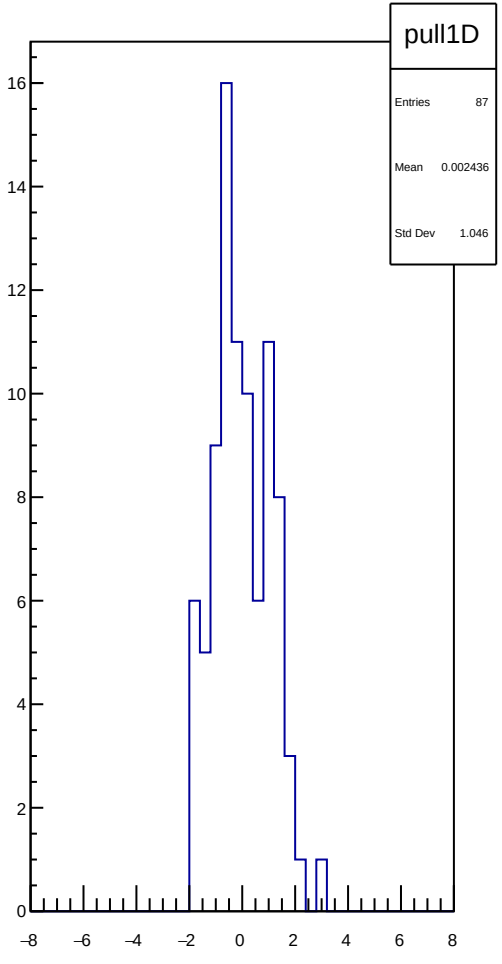

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.635e+05 / 86
p0 63.58 ± 0.05196
250
200
150
100
50

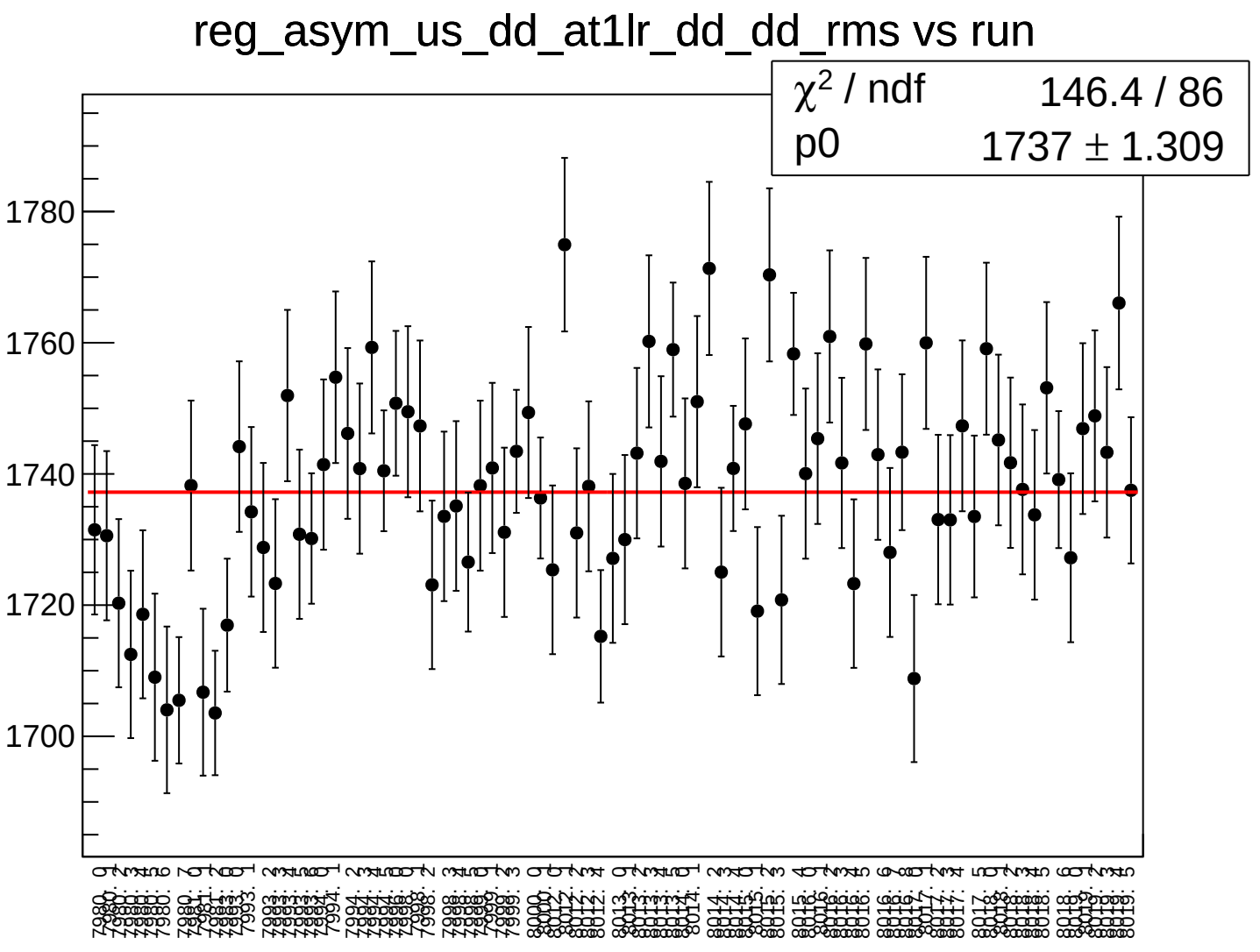

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.81 / 86
p0 7.65e−14 ± 8.144e−14
pull
Entries 87
Mean 20.92
Std Dev 24.27

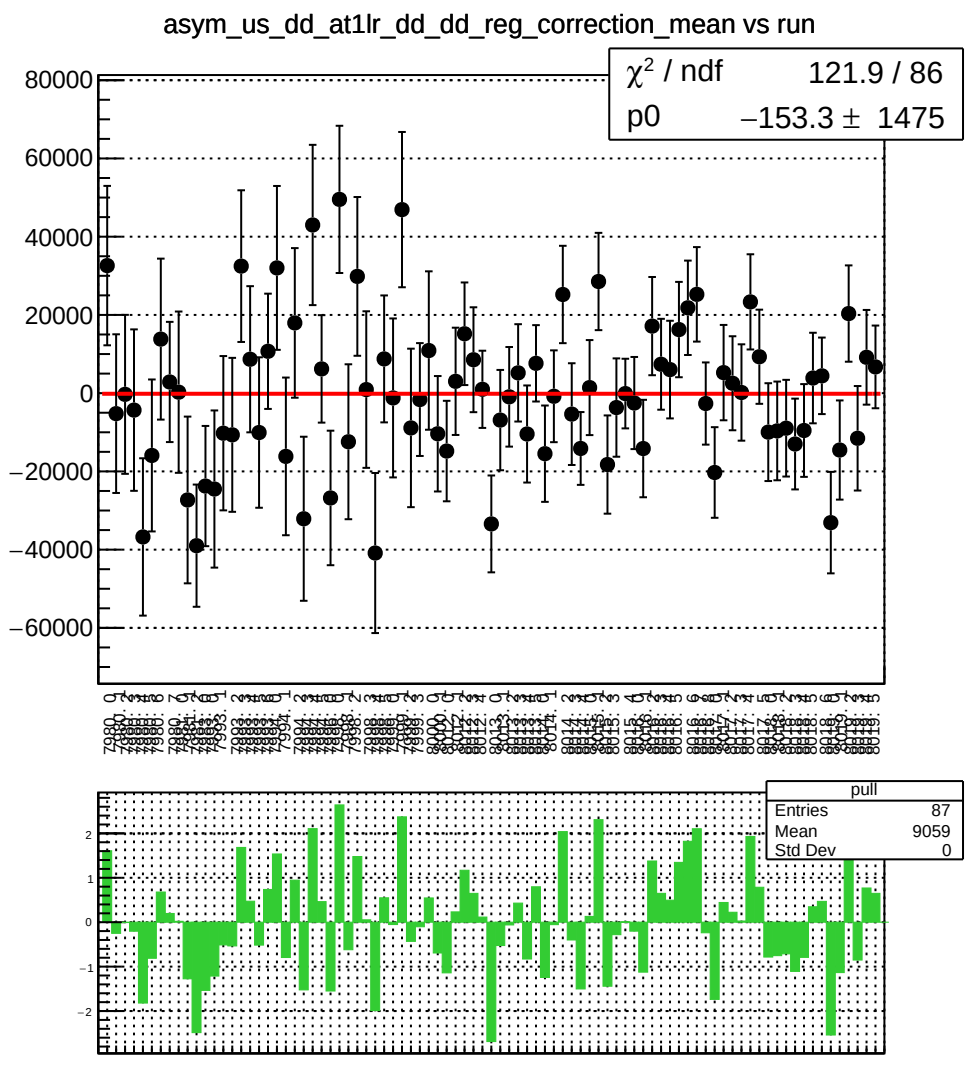

pull1D
Entries 87
Mean 0.04779
Std Dev 1.015

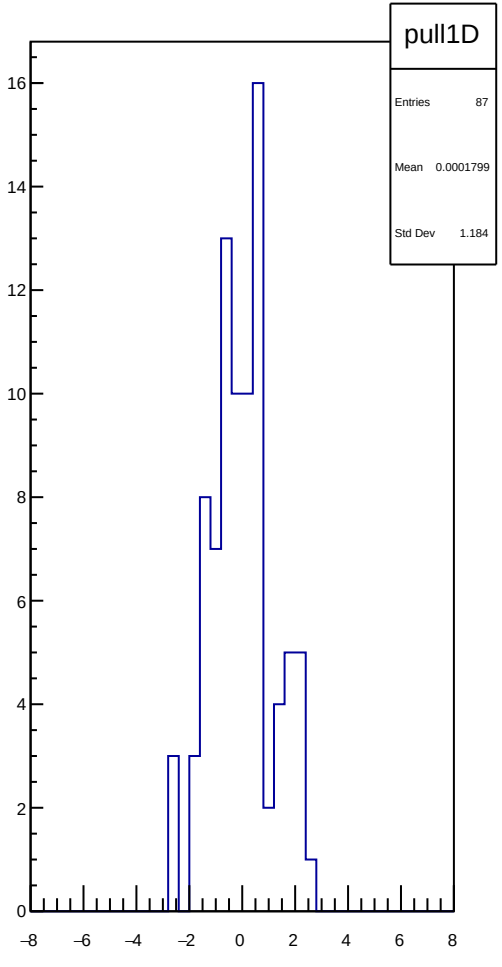

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.289e+05 / 86
p0 5.559e−11 ± 5.759e−14
0.6
0.5
0.4
0.3
0.2
0.1

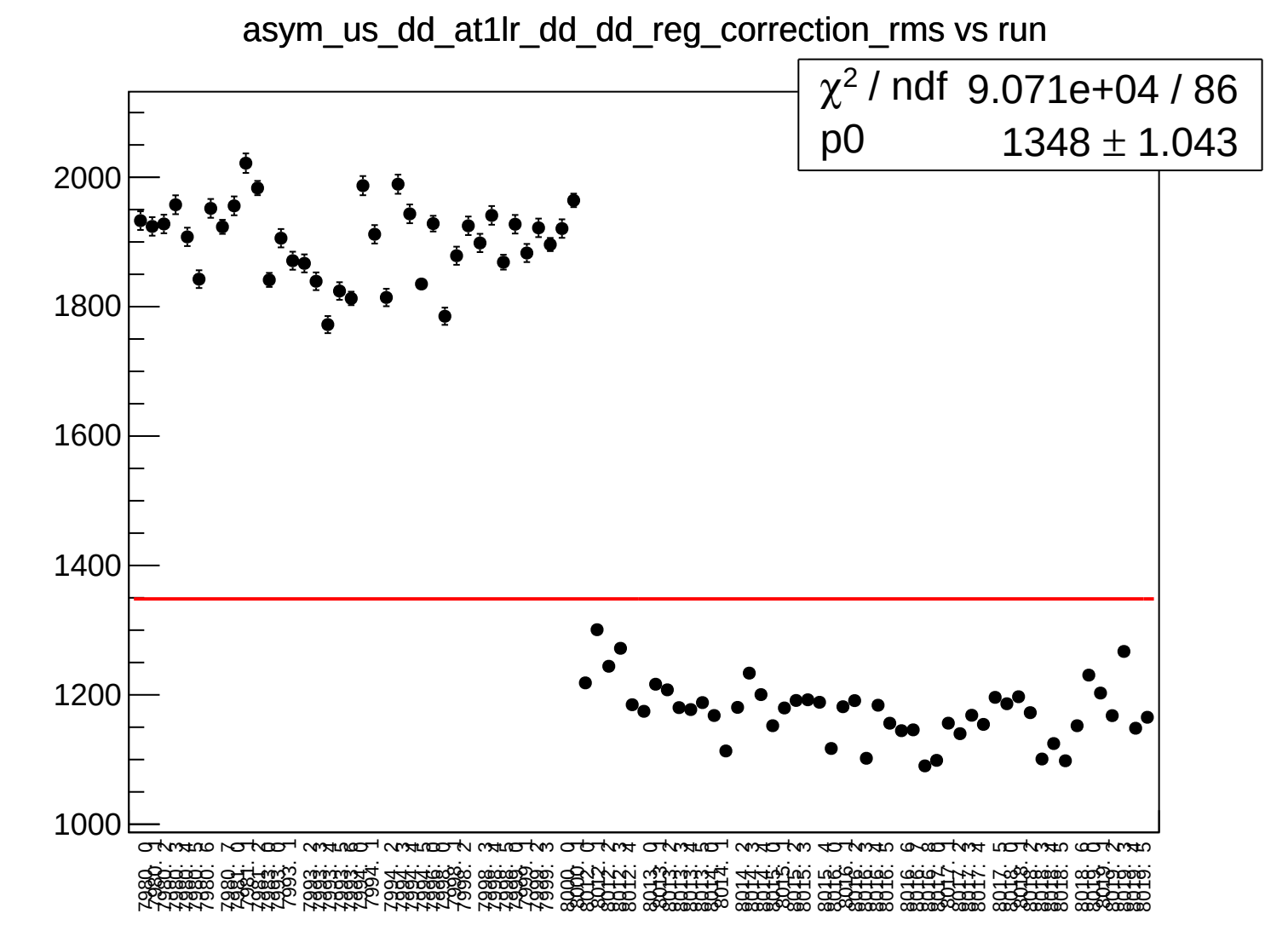

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 95.26 / 86
p0 −716.3 ± 1852
pull
Entries 87
Mean −1353
Std Dev 0

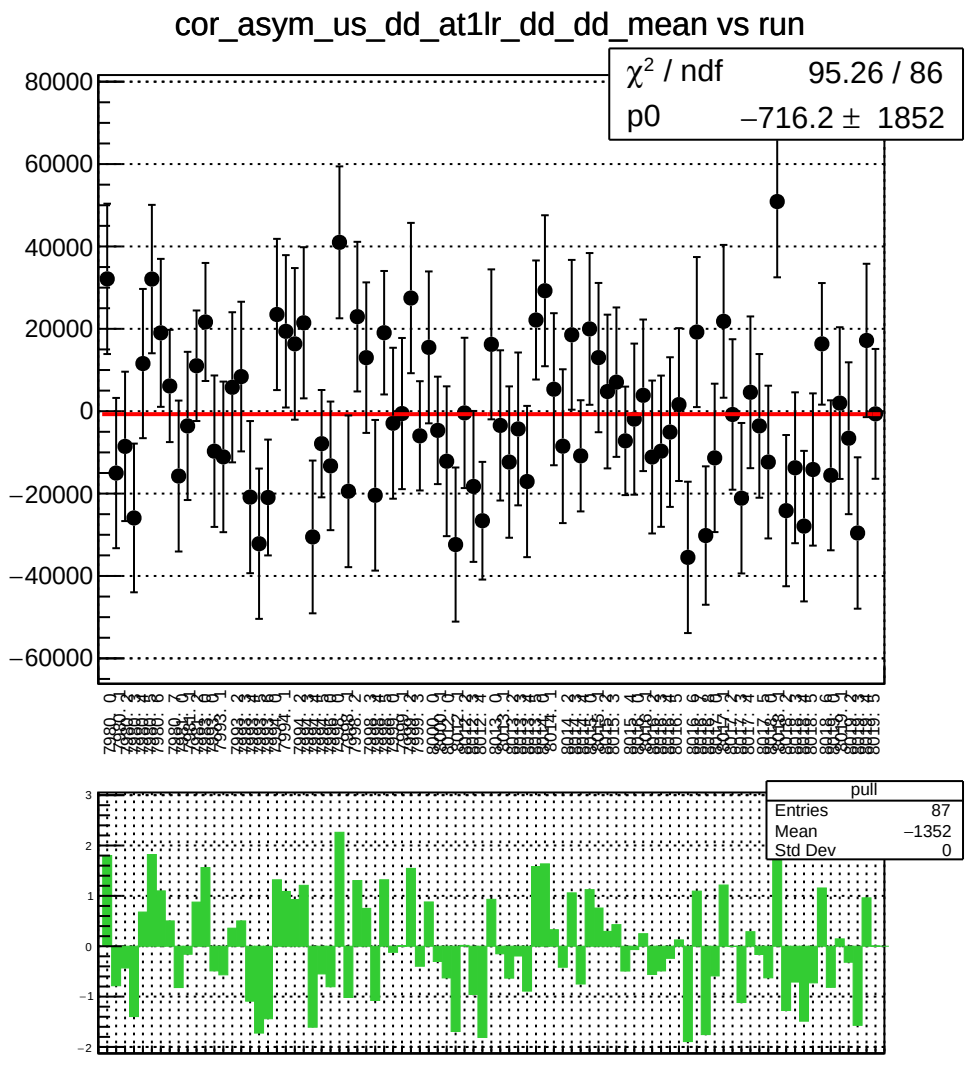

pull1D
Entries 87
Mean 0.002436
Std Dev 1.046

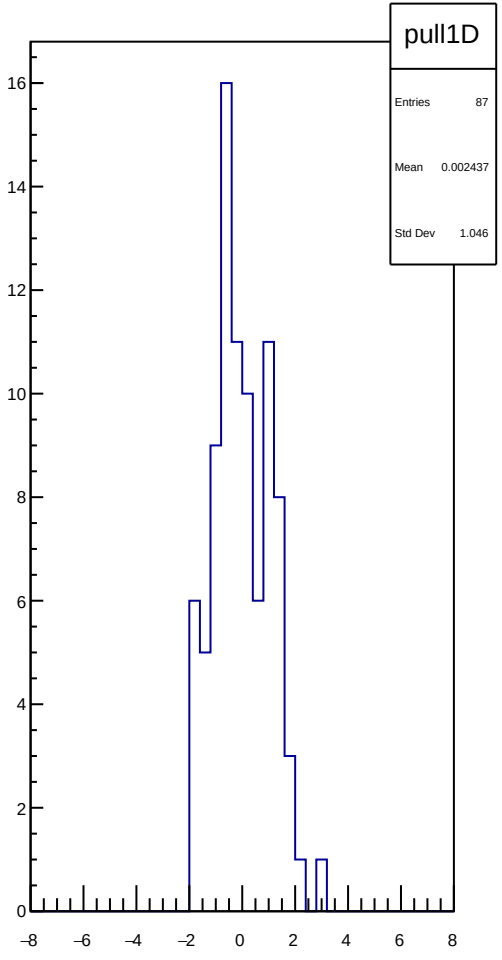

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 146.4 / 86
p0 1737 ± 1.309
1780
1760
1740
1720
1700

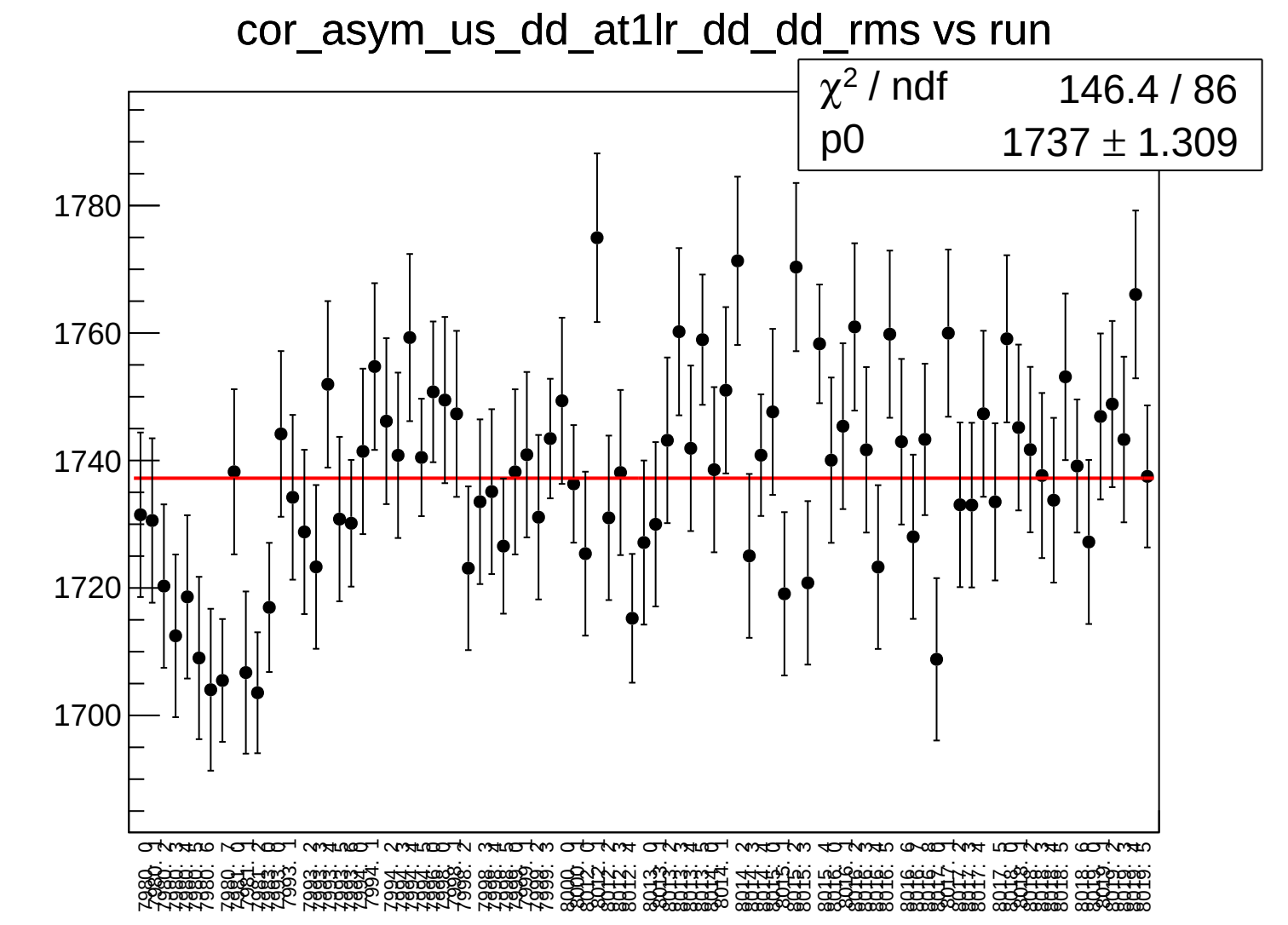

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 121.9 / 86
p0 −153.3 ± 1475
pull
Entries 87
Mean 9059
Std Dev 0

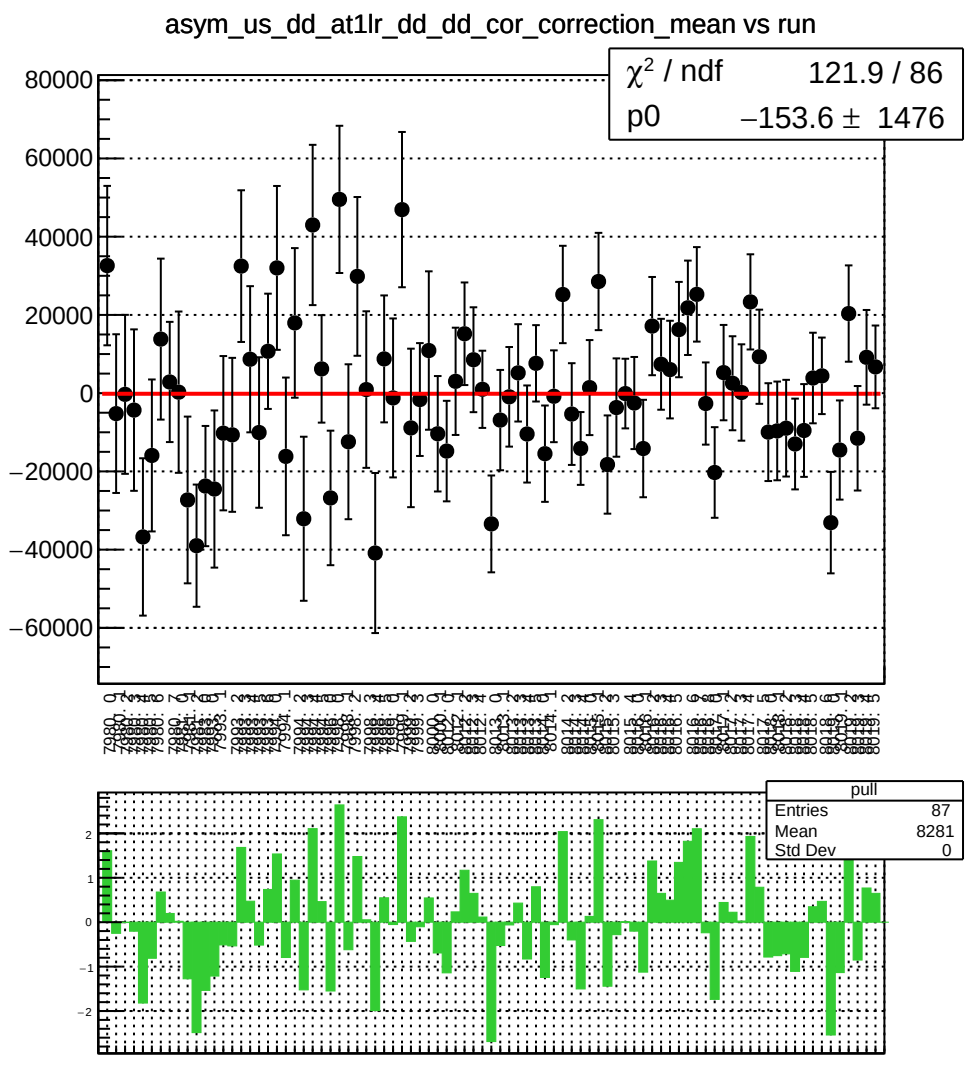

pull1D
Entries 87
Mean 0.0001799
Std Dev 1.184

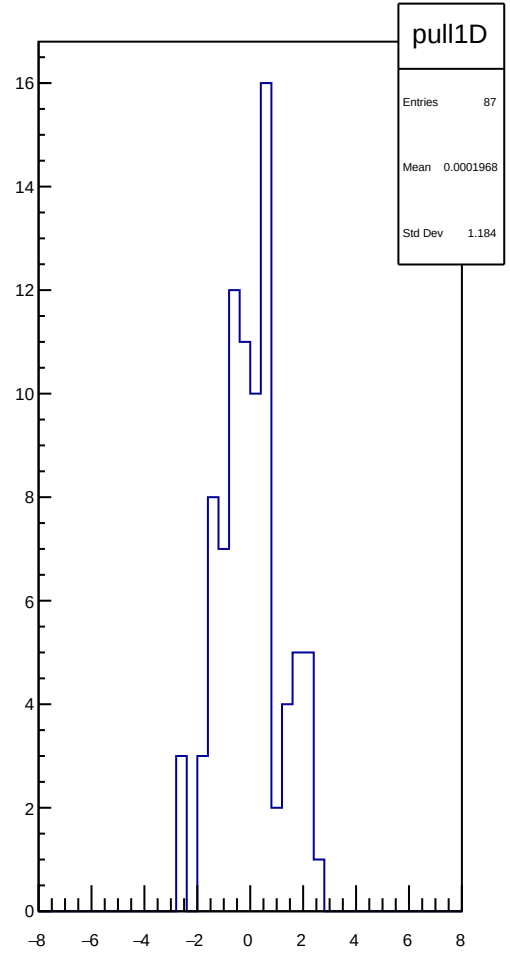

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 9.071e+04 / 86
p0 1348 ± 1.043
2000
1800
1600
1400
1200
1000

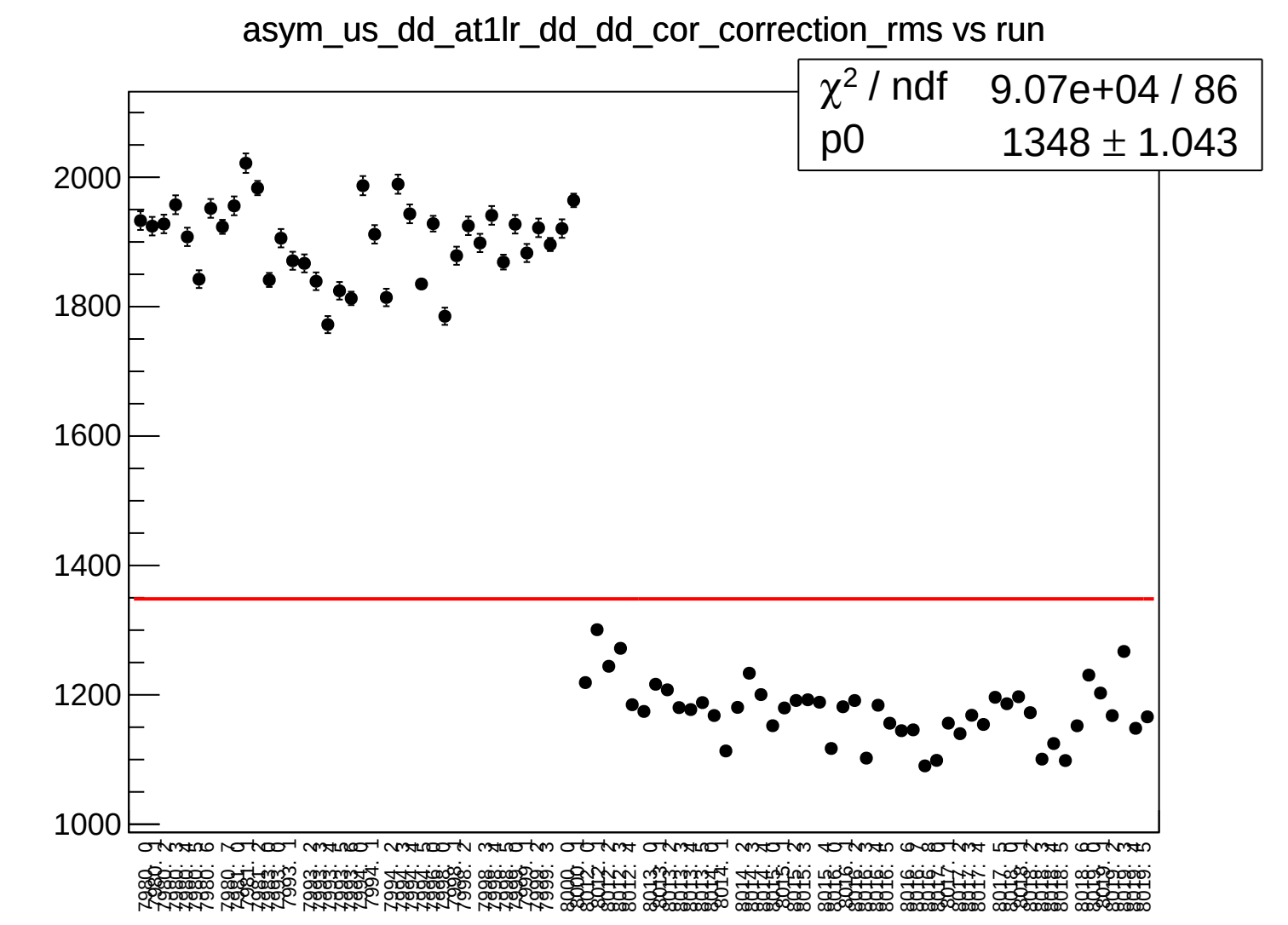

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 95.26 / 86
p0 −716.2 ± 1852
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −1352
Std Dev 0
3
2
1
0
−1
−2

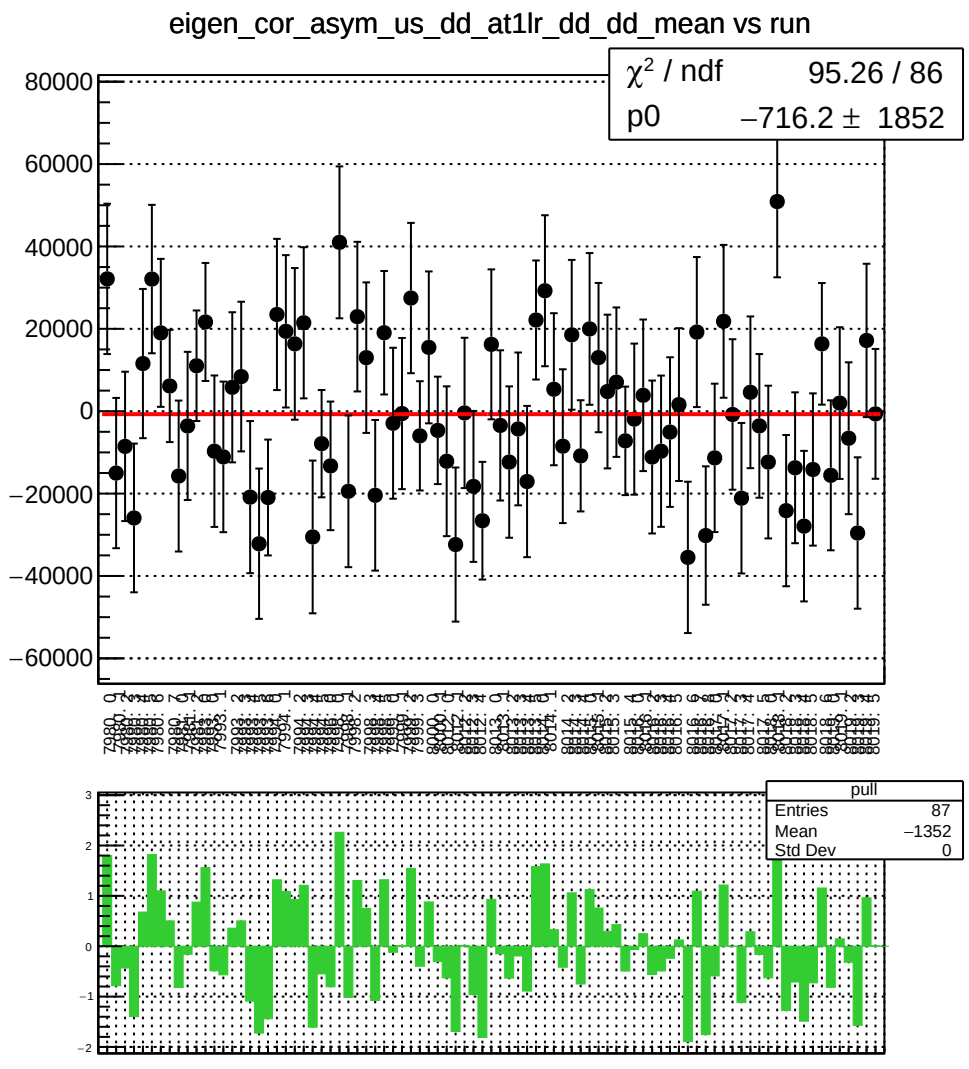

pull1D
Entries 87
Mean 0.002437
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

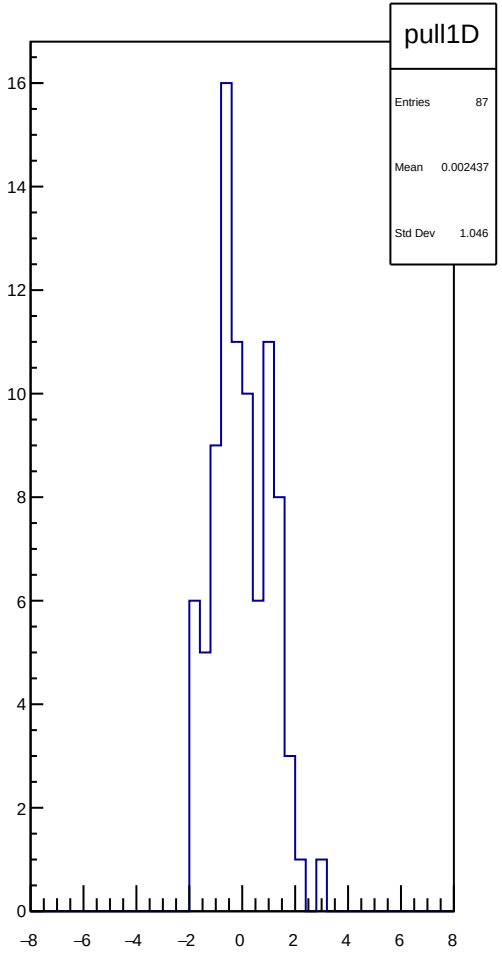

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 146.4 / 86
p0 1737 ± 1.309
1780
1760
1740
1720
1700

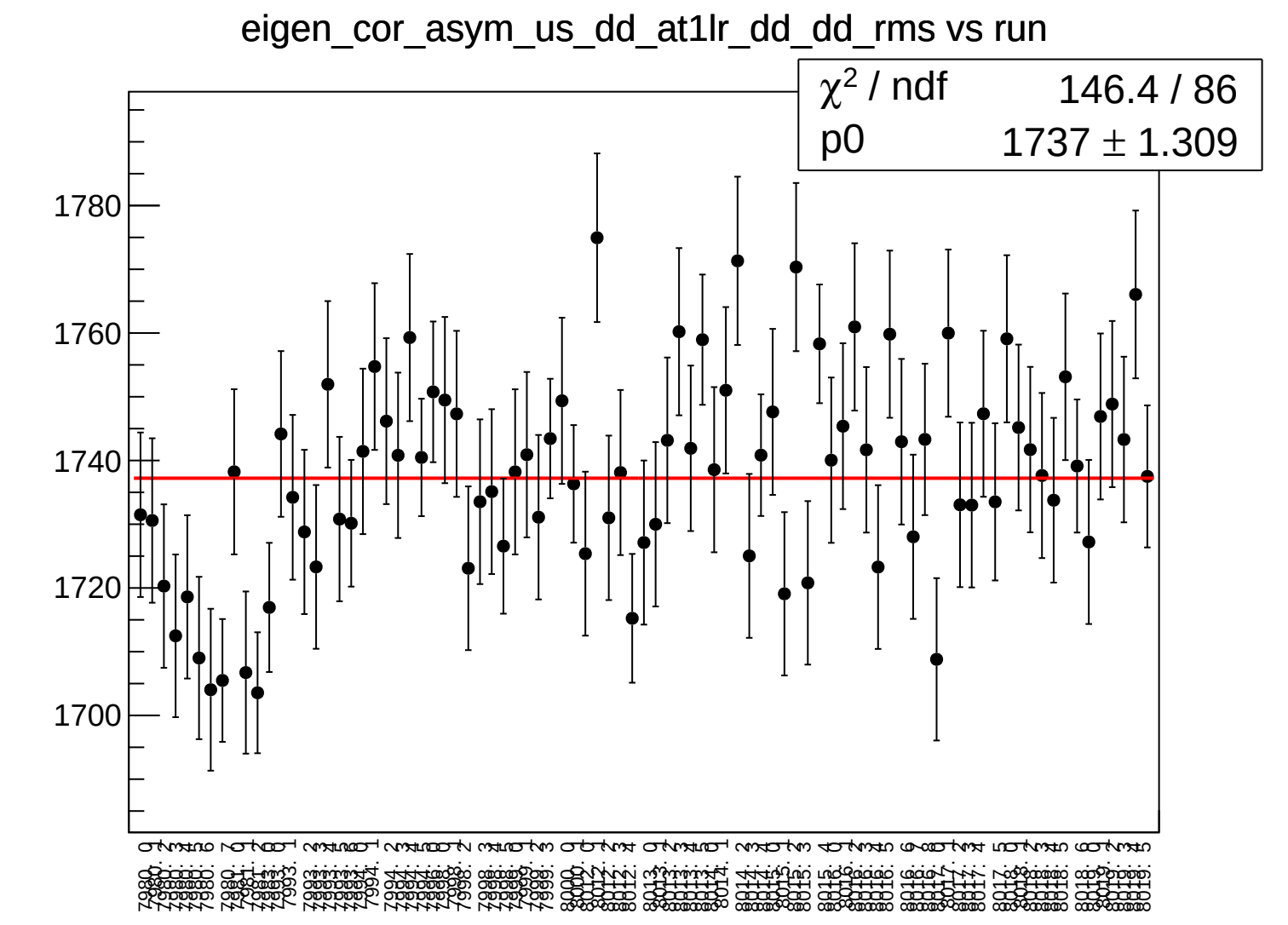

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 121.9 / 86
p0 −153.6 ± 1476
pull
Entries 87
Mean 8281
Std Dev 0

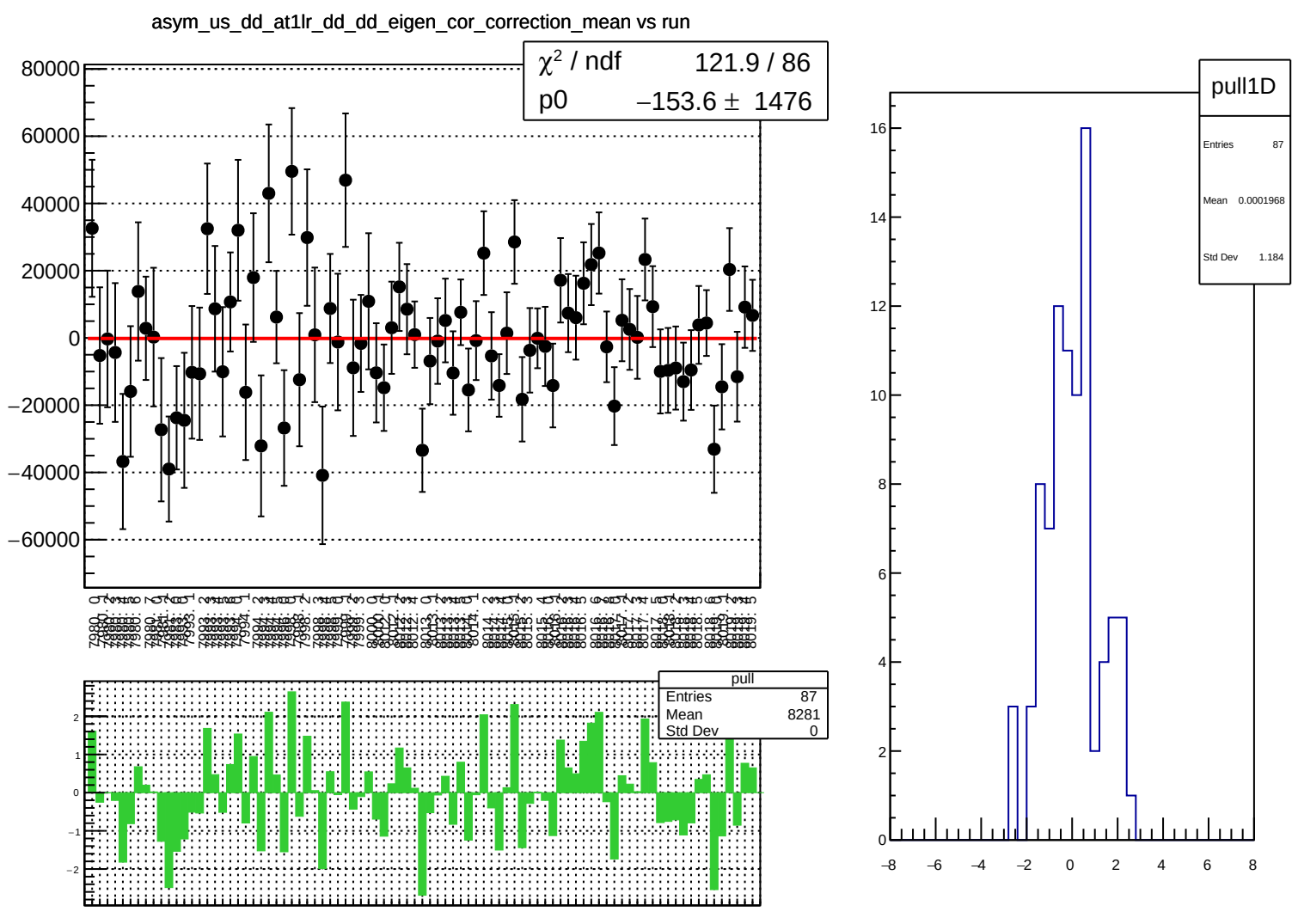

pull1D
Entries 87
Mean 0.0001968
Std Dev 1.184

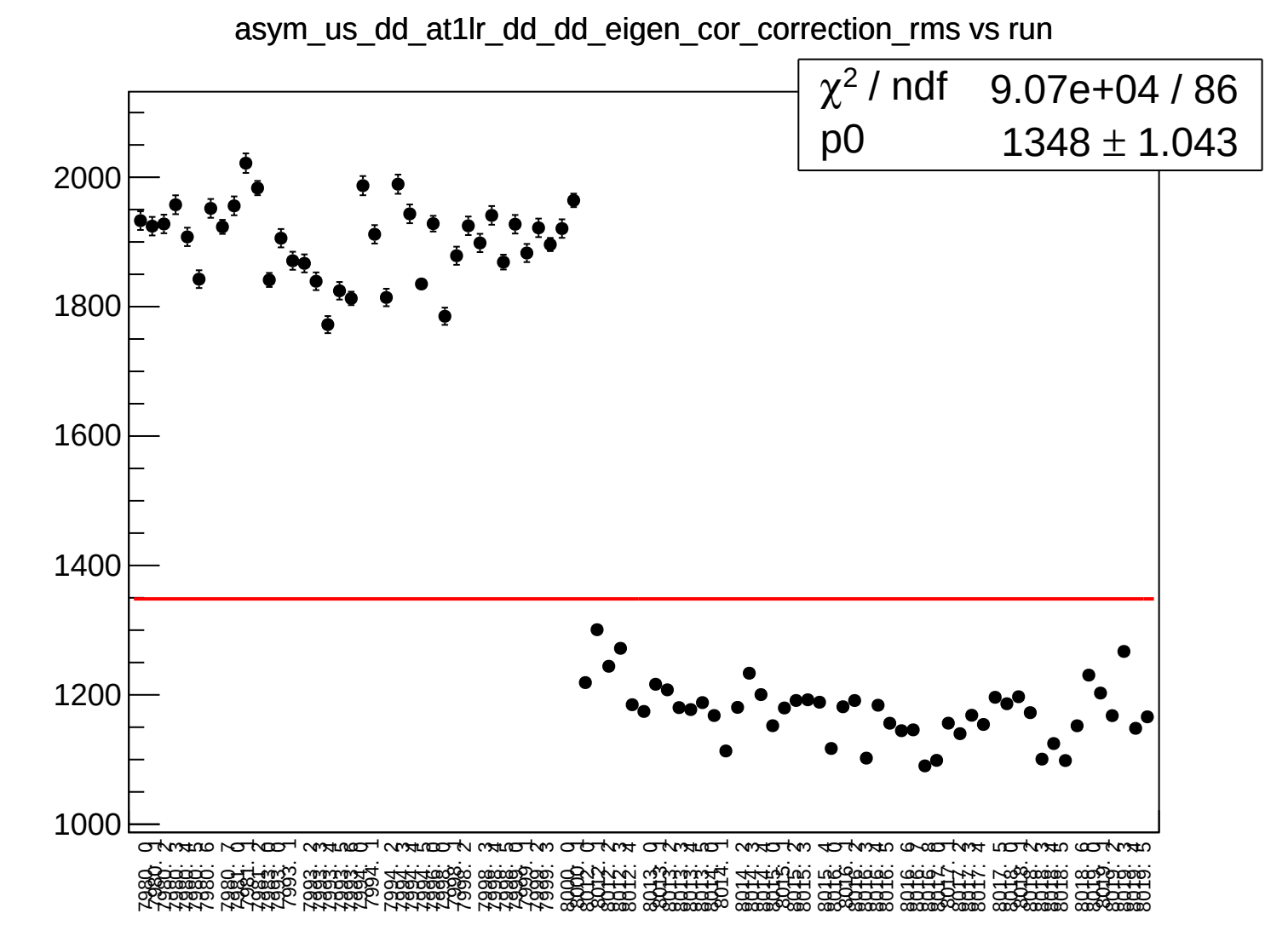

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 9.07e+04 / 86
p0 1348 ± 1.043
2000
1800
1600
1400
1200
1000

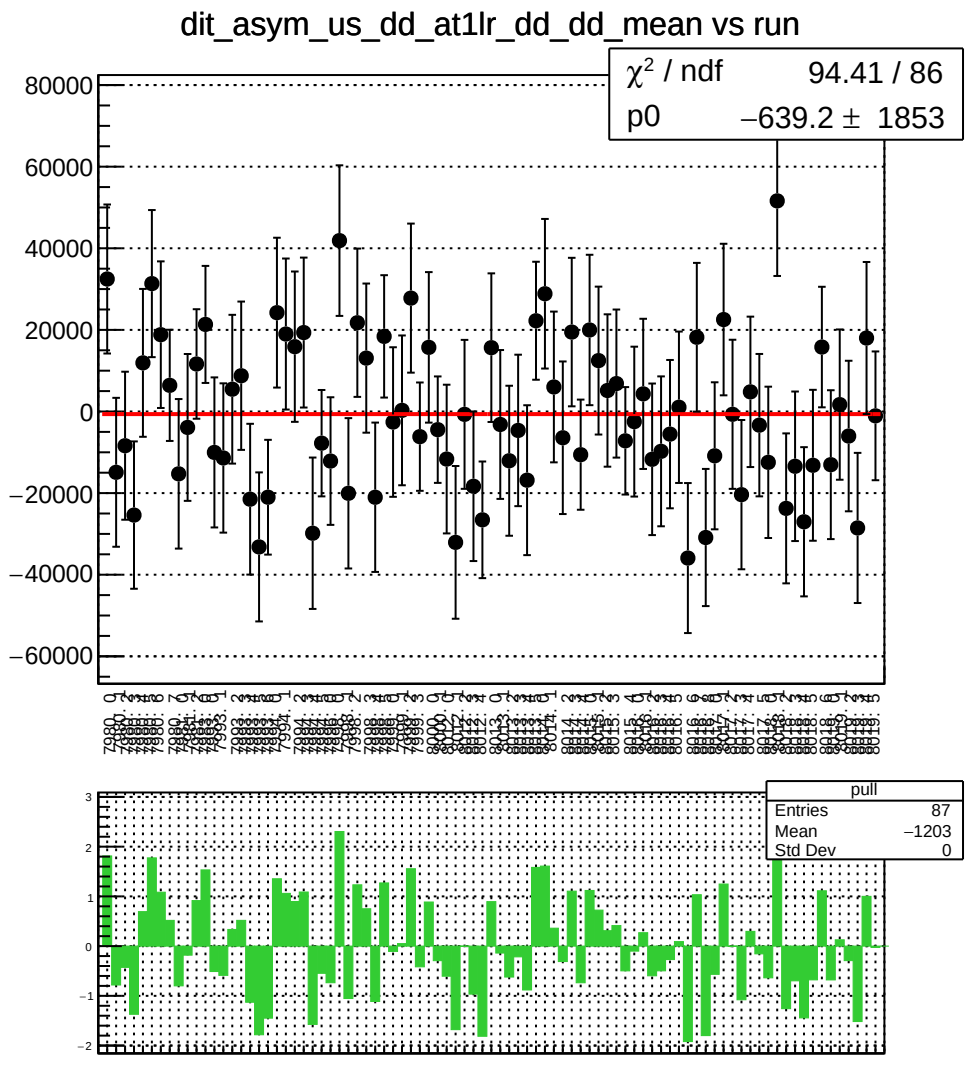

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 95.26 / 86
p0 −716.2 ± 1852
pull
Entries 87
Mean −1352
Std Dev 0

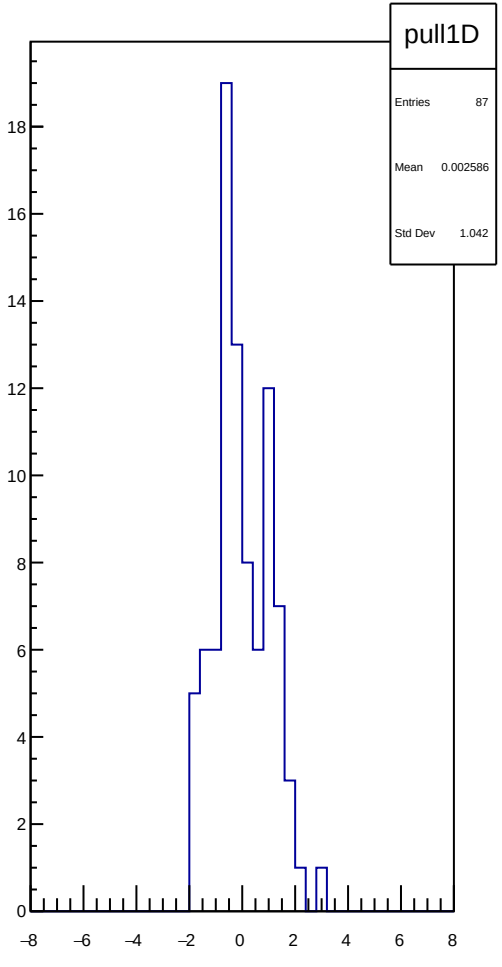

pull1D
Entries 87
Mean 0.002437
Std Dev 1.046

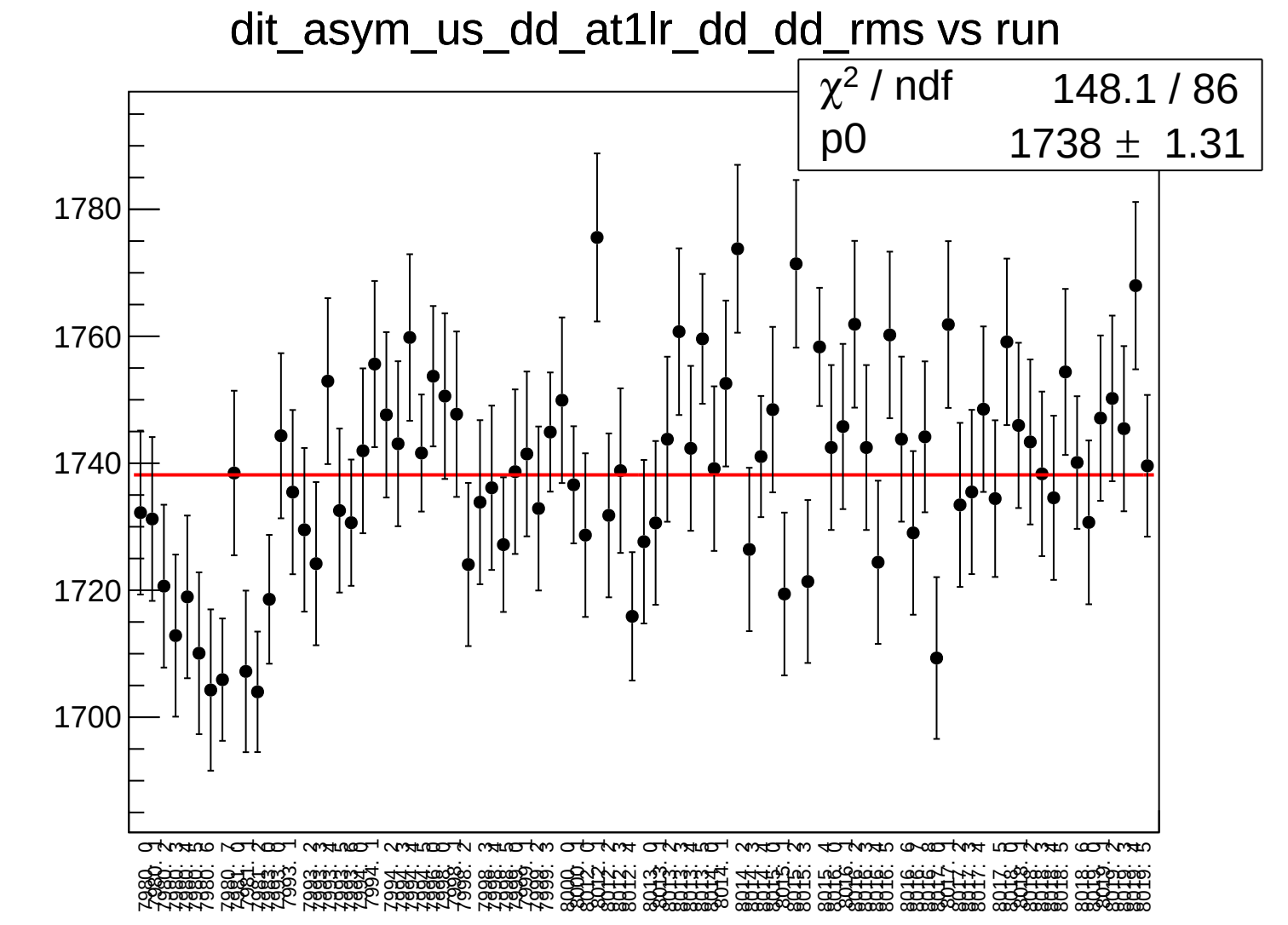

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 146.4 / 86
p0 1737 ± 1.309
1780
1760
1740
1720
1700

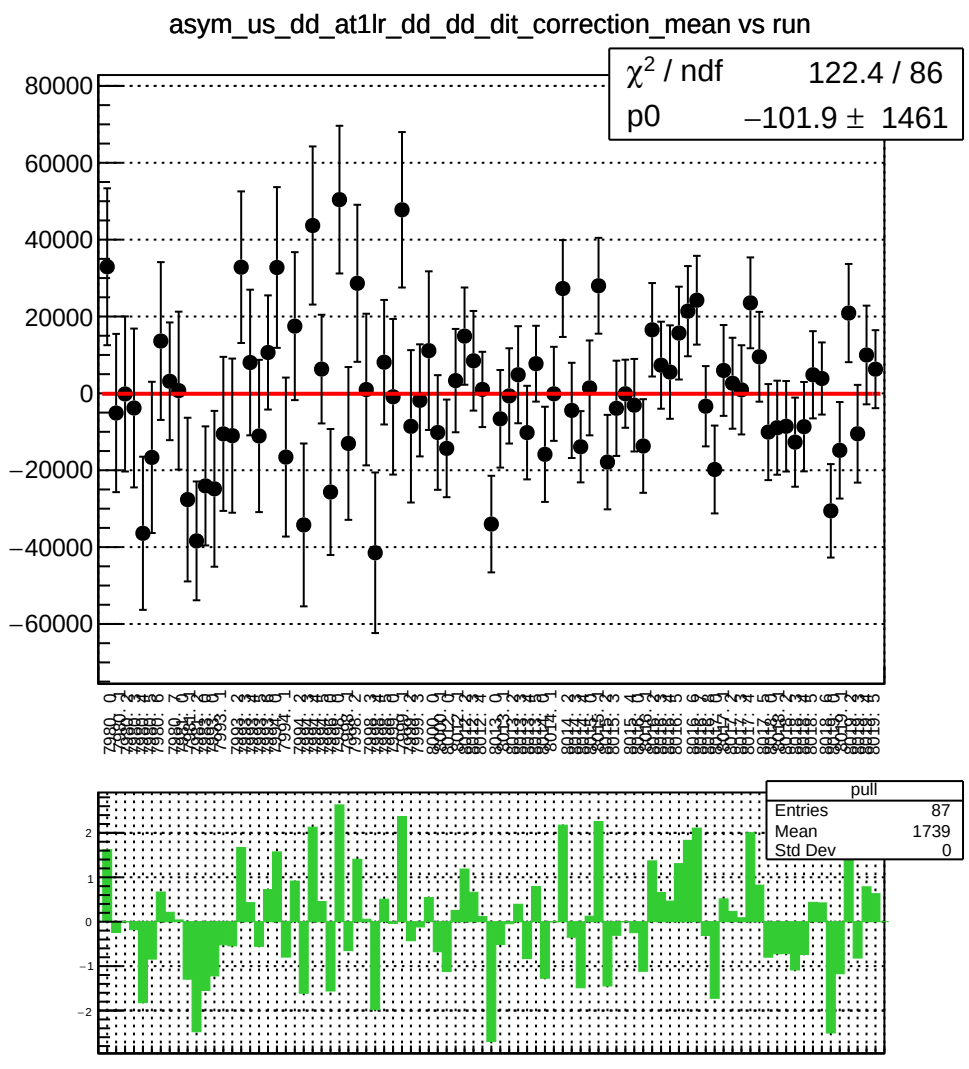

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 121.9 / 86
p0 −153.6 ± 1476
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 8281
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.0001968
Std Dev 1.184
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

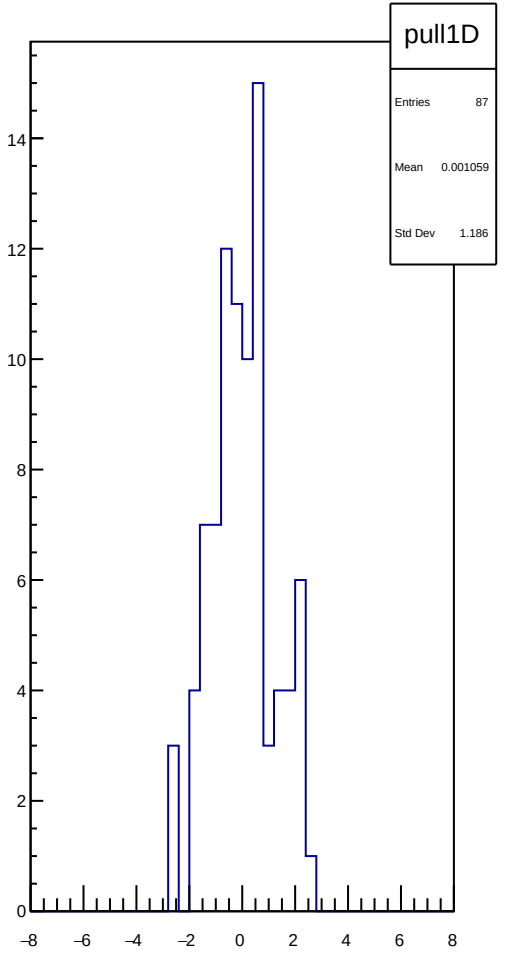

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9.07e+04 / 86
p0 1348 ± 1.043
2000
1800
1600
1400
1200
1000

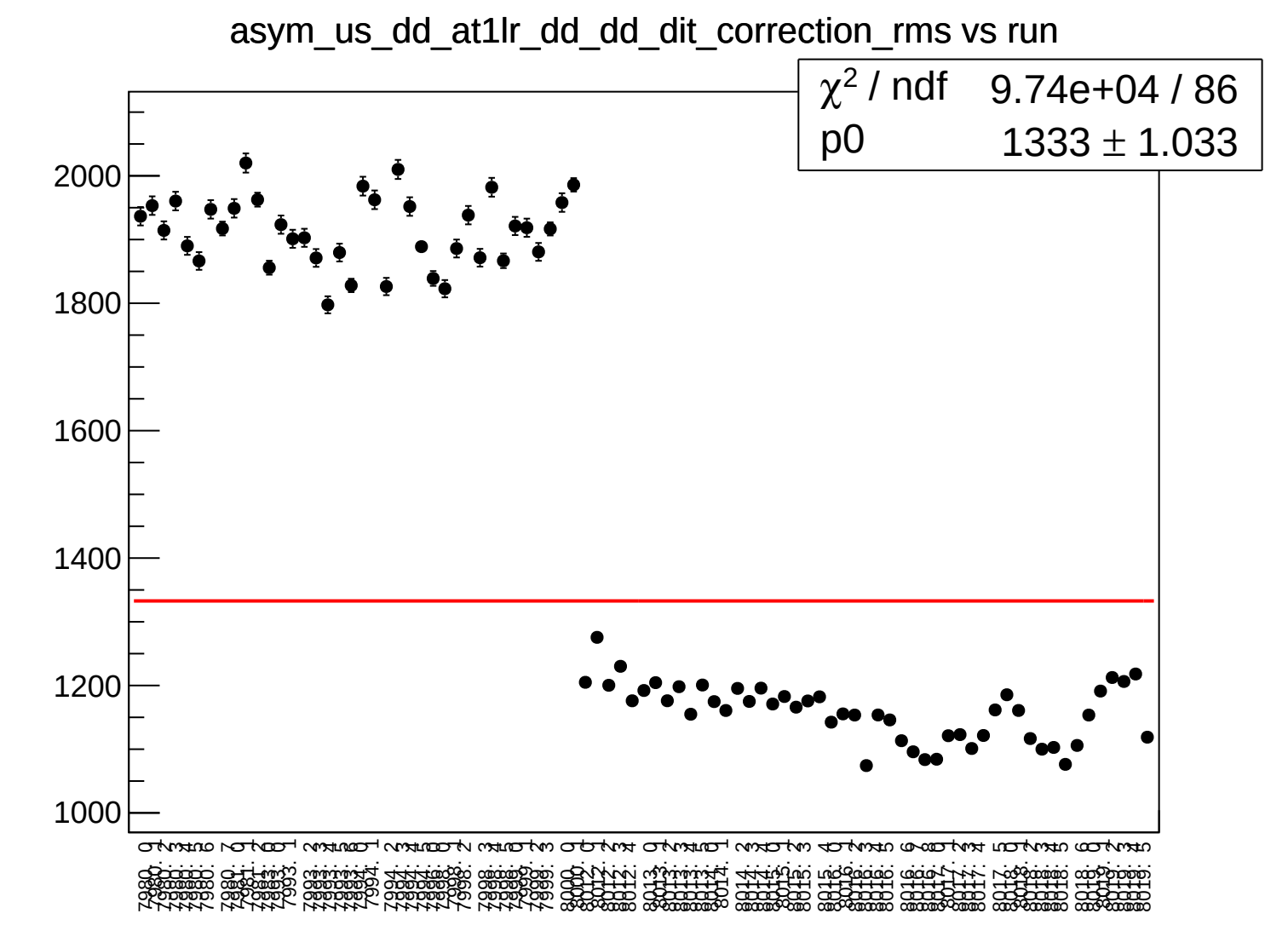

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.41 / 86
p0 −639.2 ± 1853
pull
Entries 87
Mean −1203
Std Dev 0

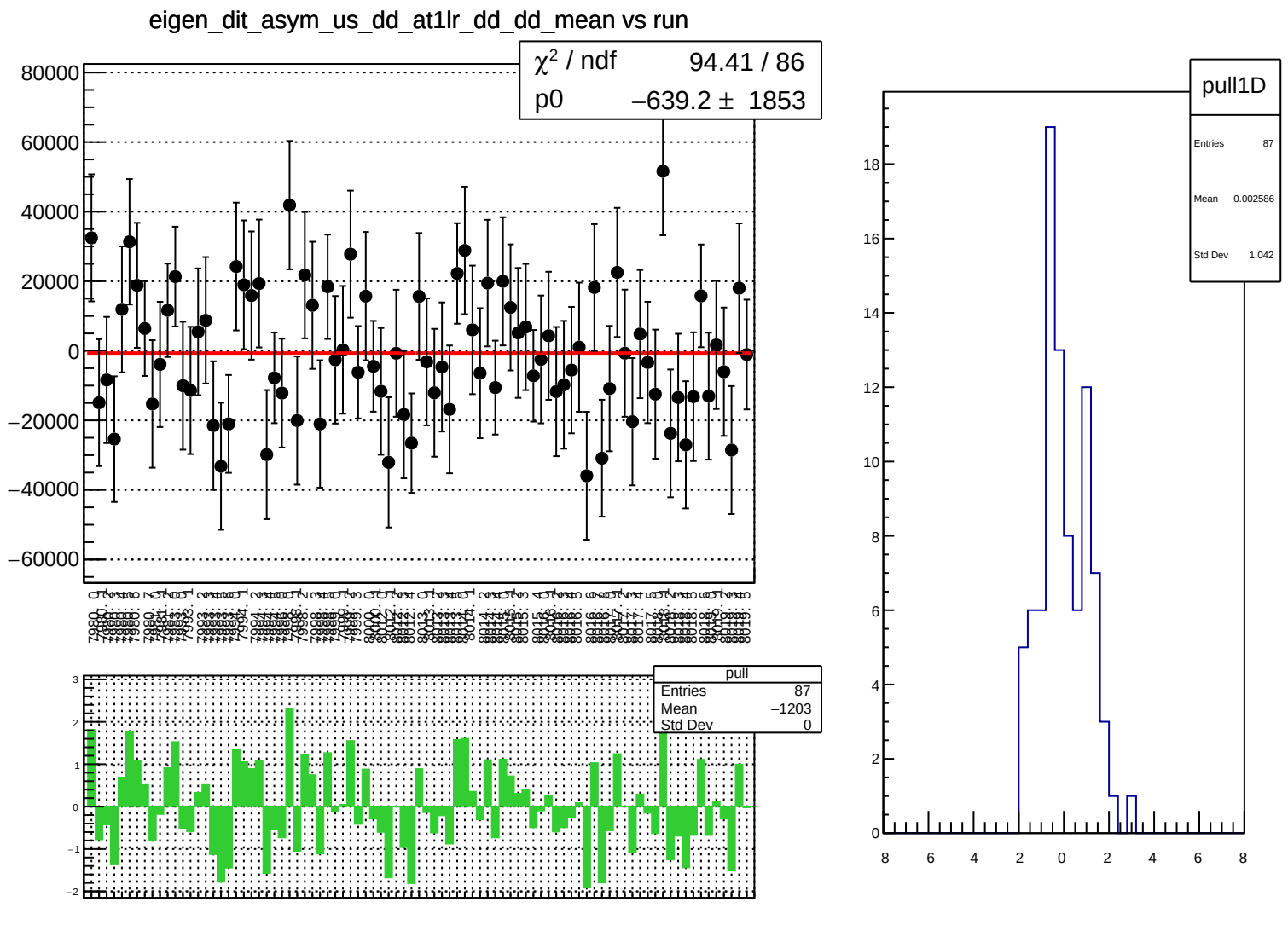

pull1D
Entries 87
Mean 0.002586
Std Dev 1.042

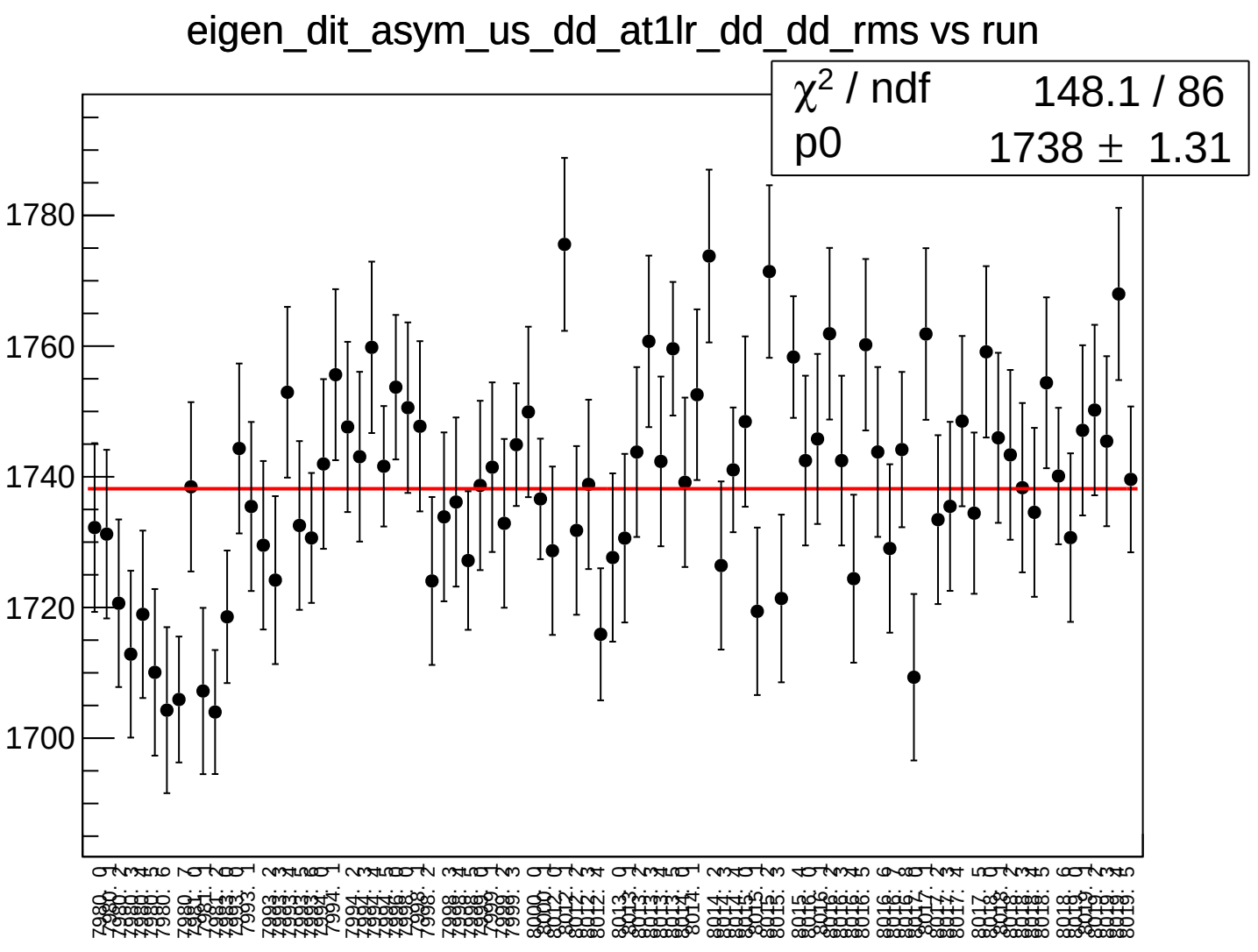

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 148.1 / 86
p0 1738 ± 1.31
1780
1760
1740
1720
1700

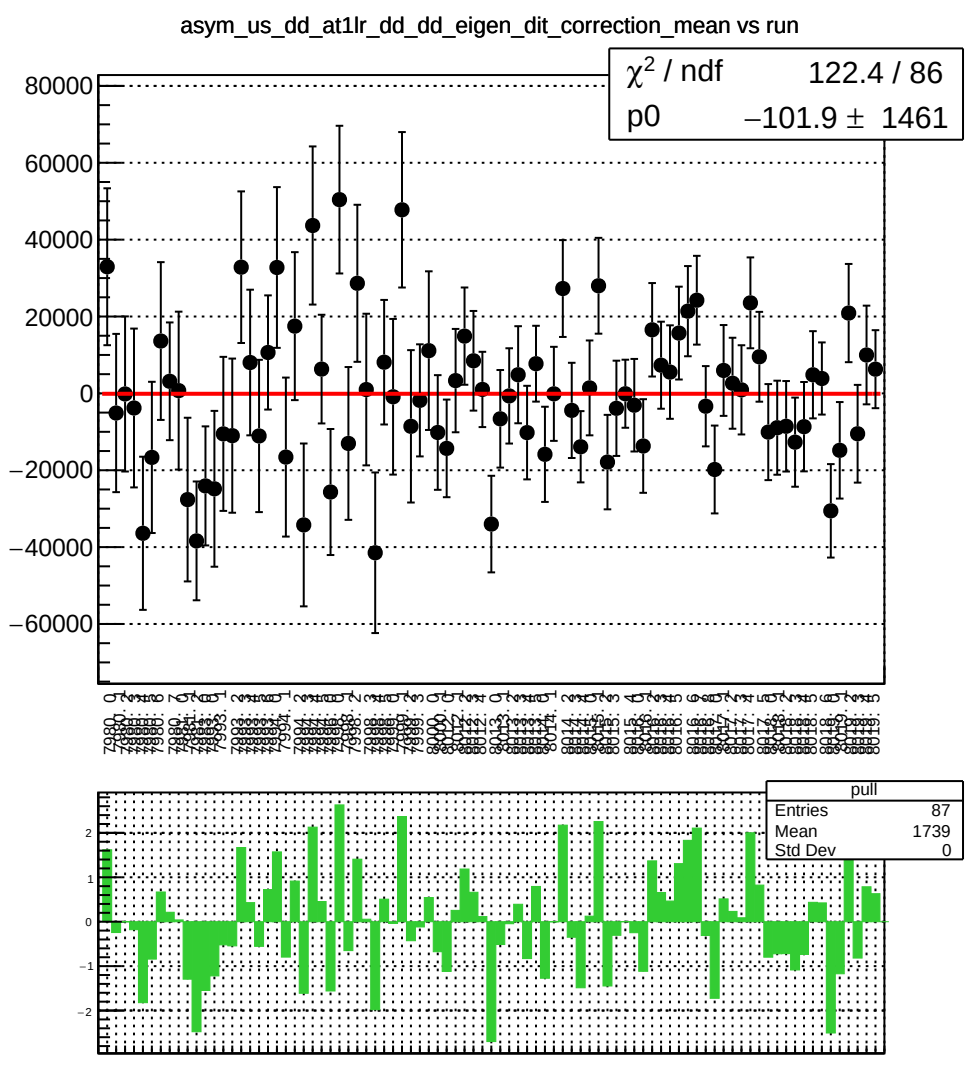

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 122.4 / 86
p0 −101.9 ± 1461
pull
Entries 87
Mean 1739
Std Dev 0

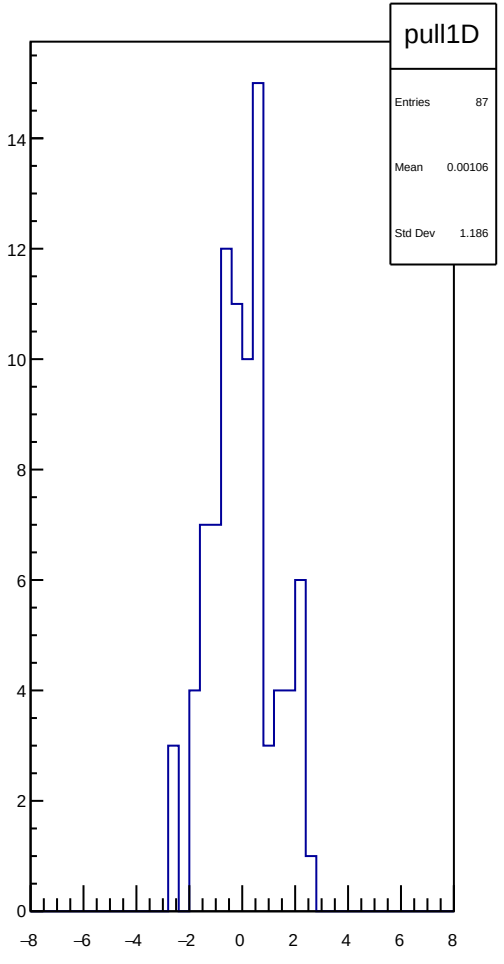

pull1D
Entries 87
Mean 0.001059
Std Dev 1.186

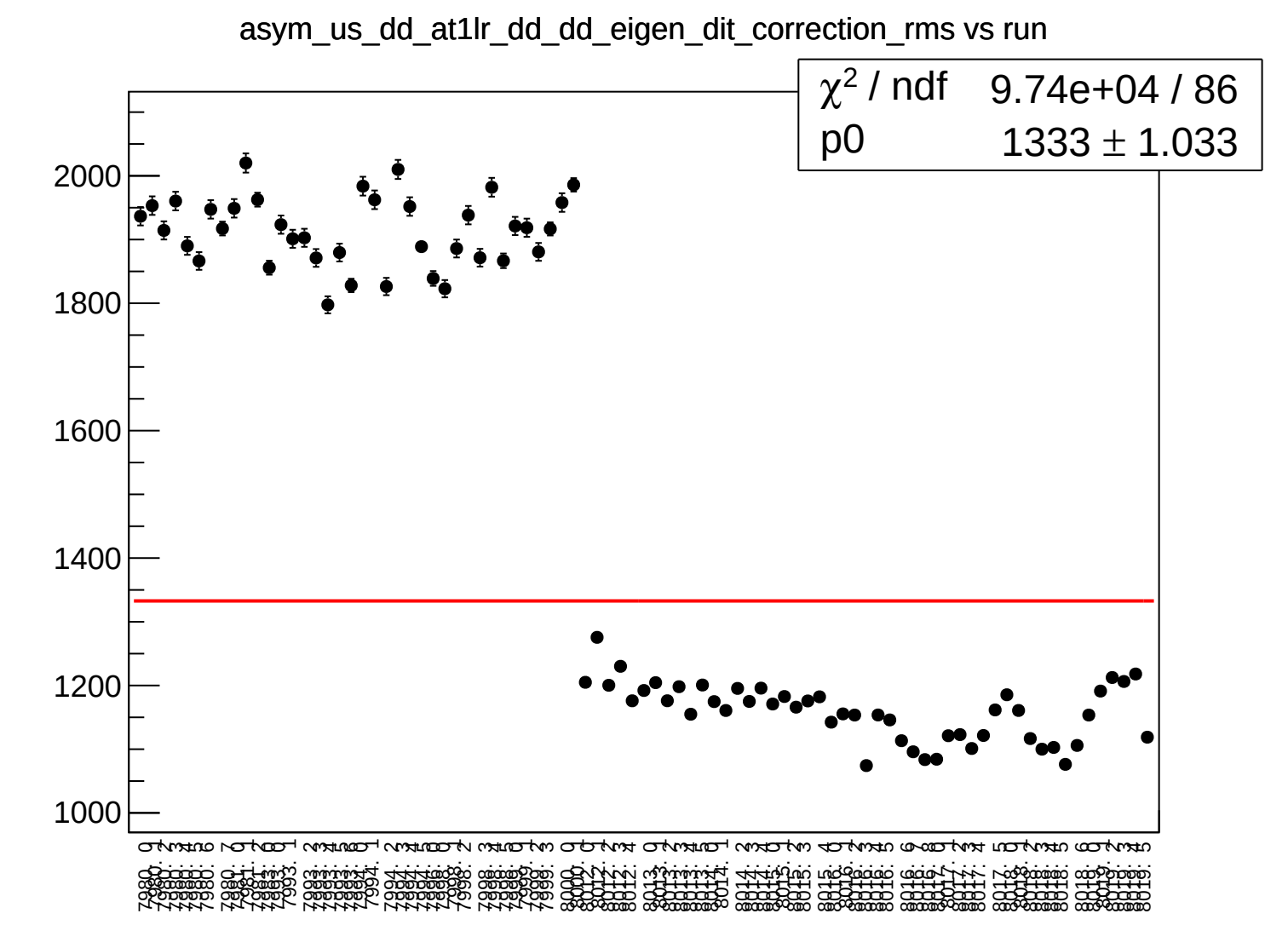

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 9.74e+04 / 86
p0 1333 ± 1.033
2000
1800
1600
1400
1200
1000

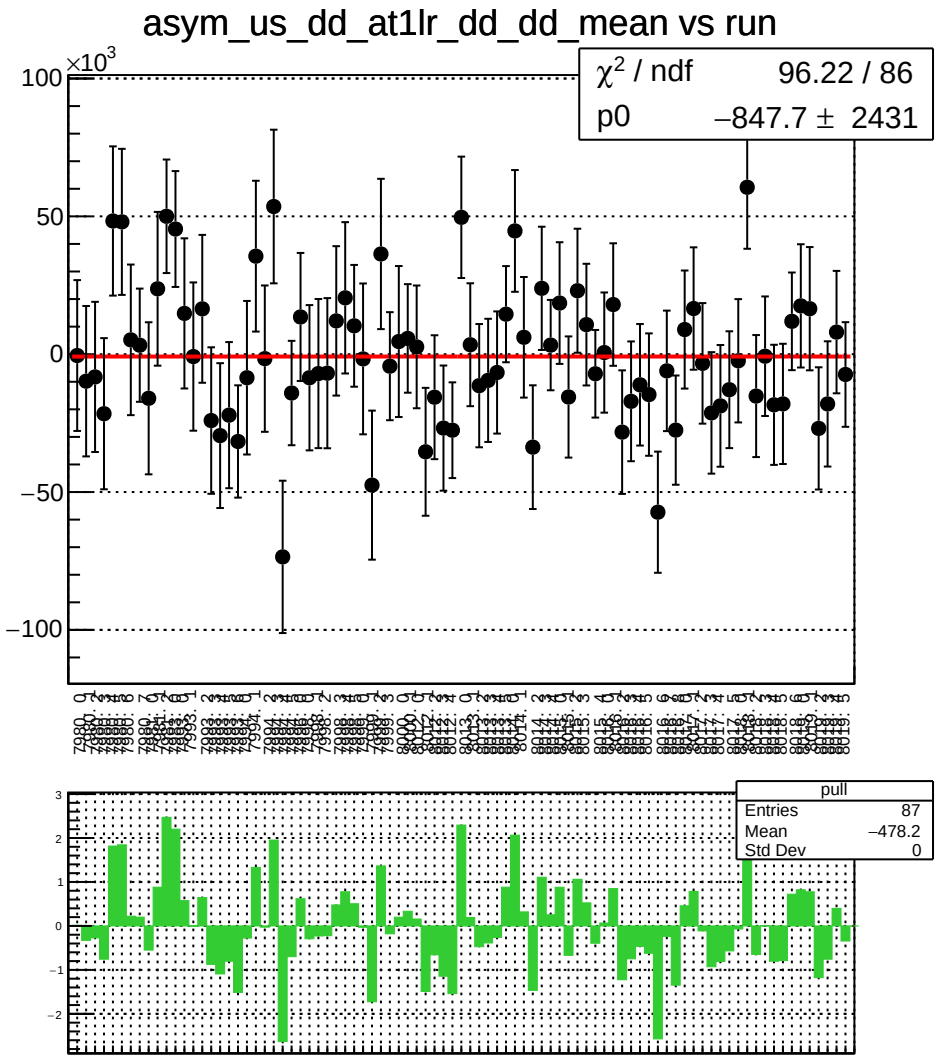

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.41 / 86
p0 −639.2 ± 1853
pull
Entries 87
Mean −1203
Std Dev 0
pull1D
Entries 87
Mean 0.002586
Std Dev 1.042

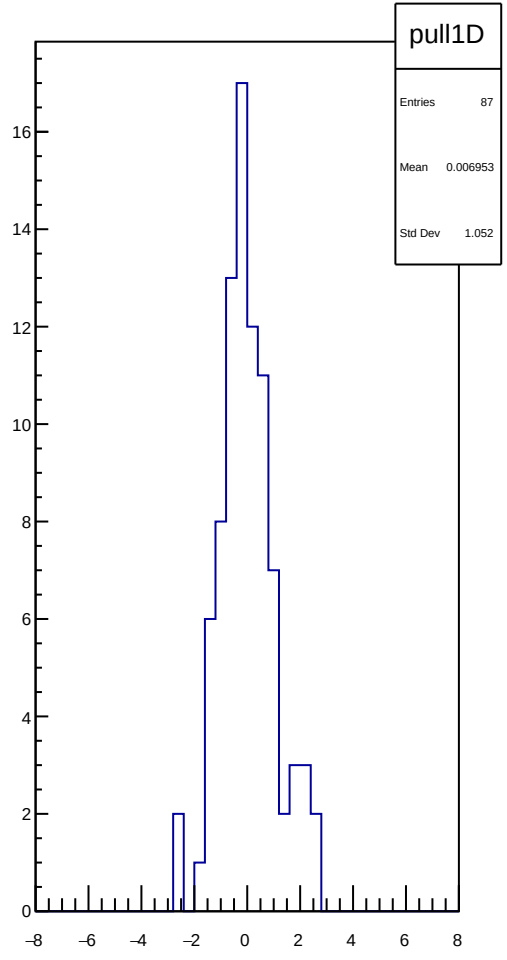

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 148.1 / 86
p0 1738 ± 1.31
1780
1760
1740
1720
1700

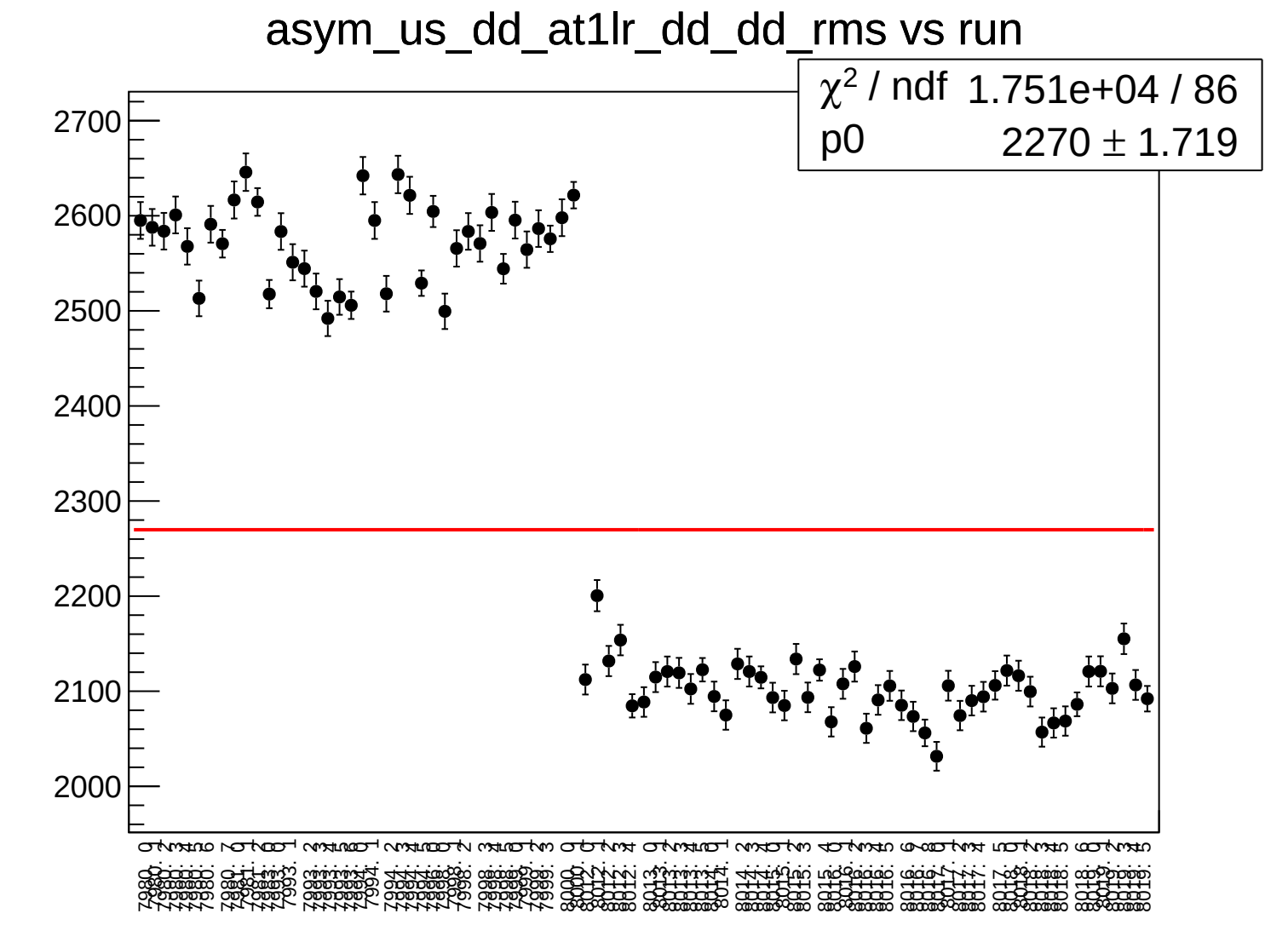

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 122.4 / 86
p0 −101.9 ± 1461
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 1739
Std Dev 0
2
1
0
−1
−2

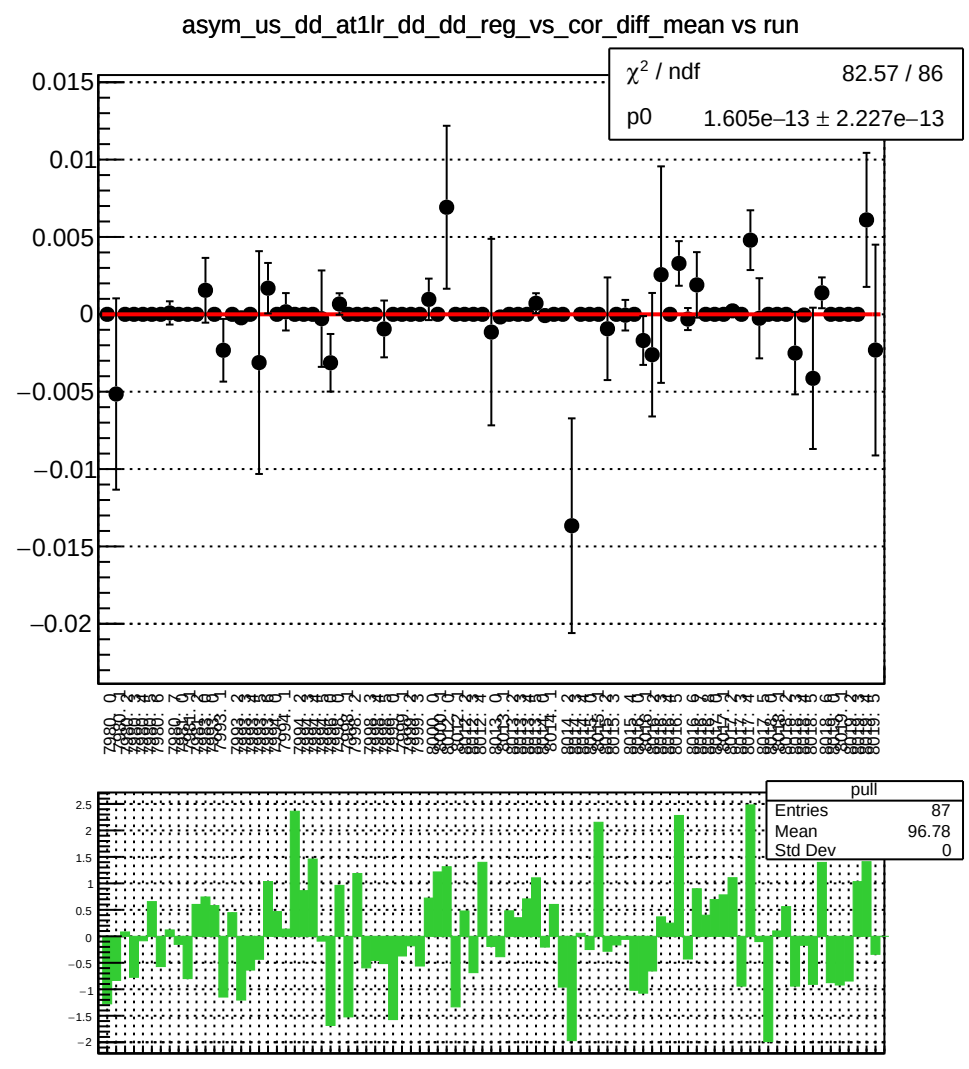

pull1D
Entries 87
Mean 0.00106
Std Dev 1.186
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

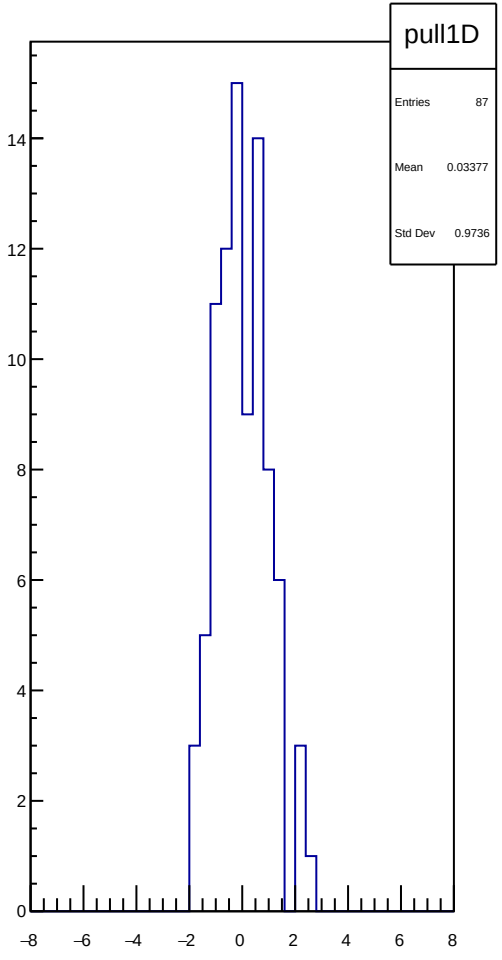

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 9.74e+04 / 86
p0 1333 ± 1.033
2000
1800
1600
1400
1200
1000

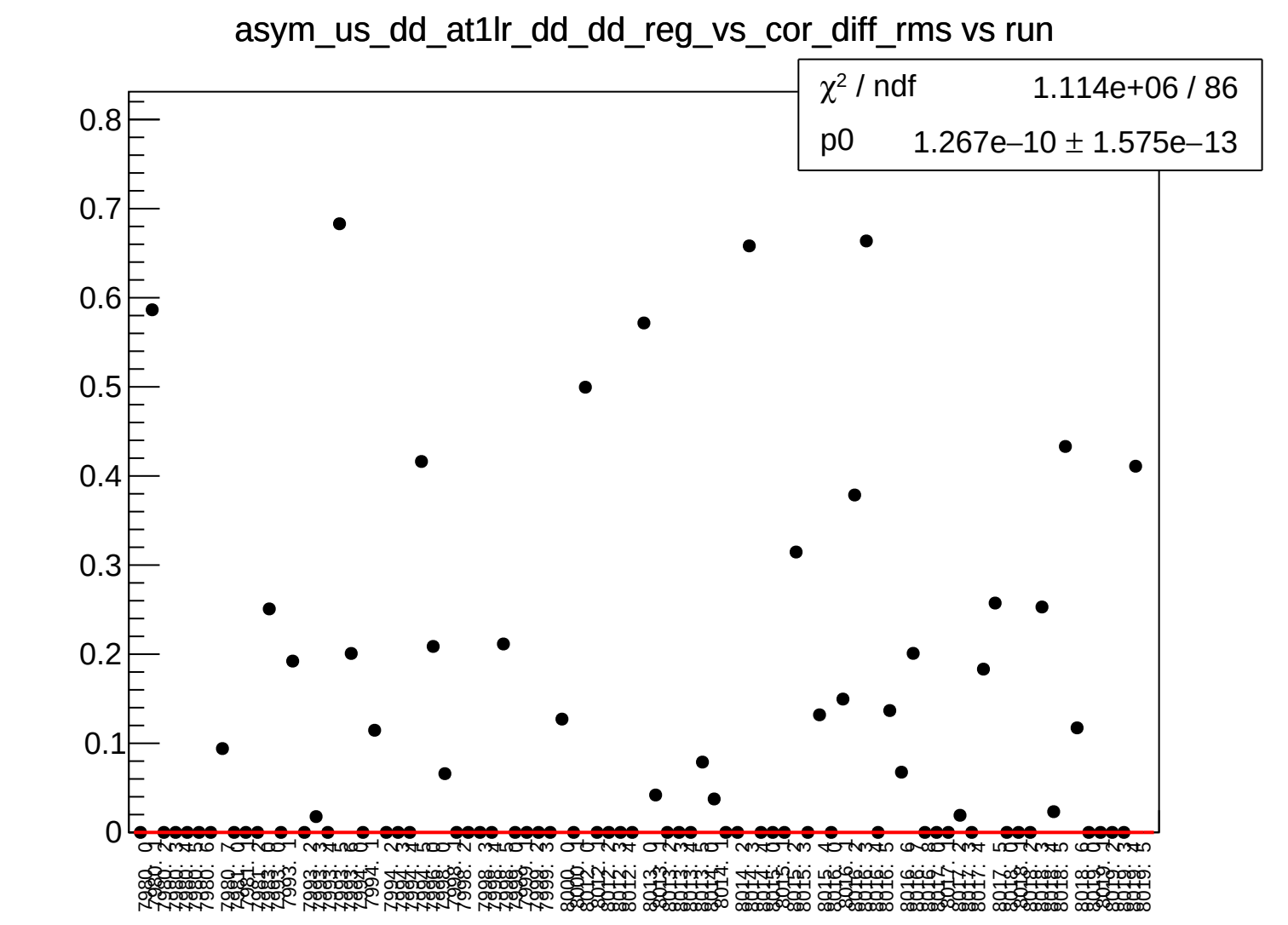

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 96.22 / 86
p0 −847.7 ± 2431
×10³
100
50
0
−50
−100
pull
Entries 87
Mean −478.2
Std Dev 0
3
2
1
0
−1
−2

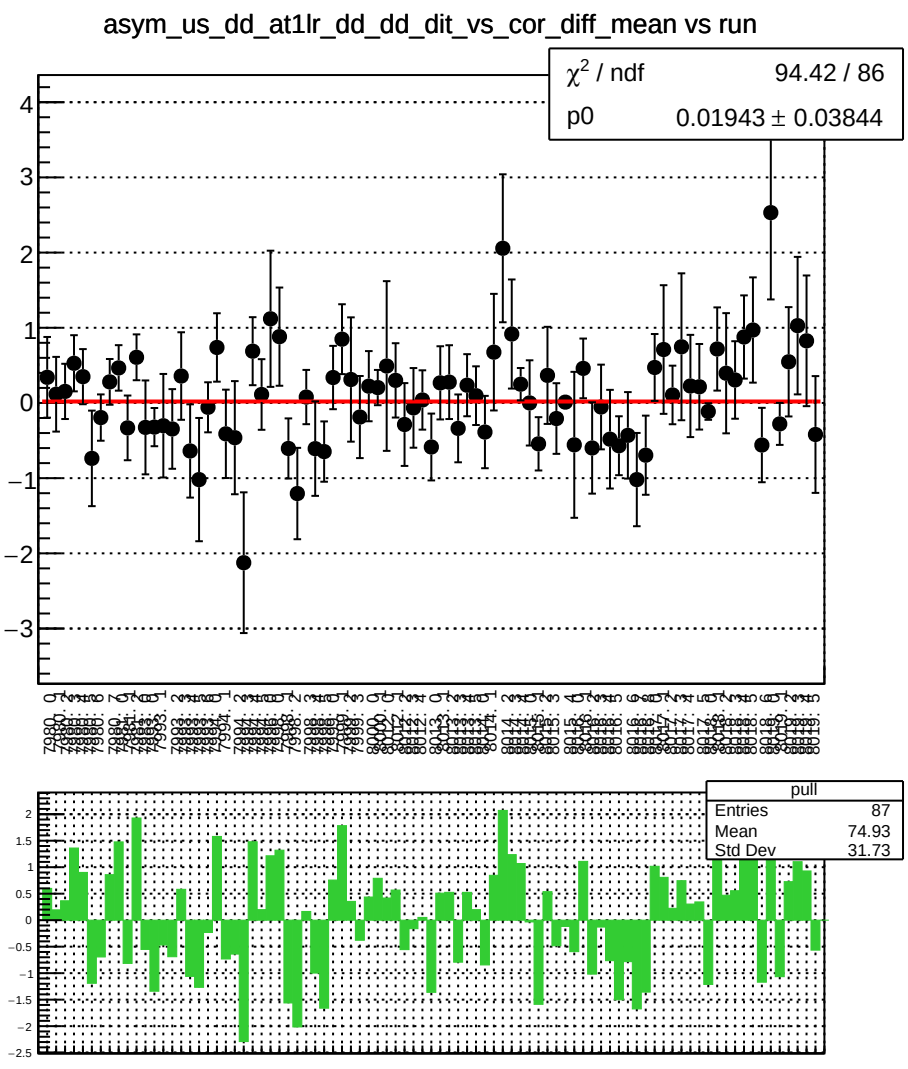

pull1D
Entries 87
Mean 0.006953
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

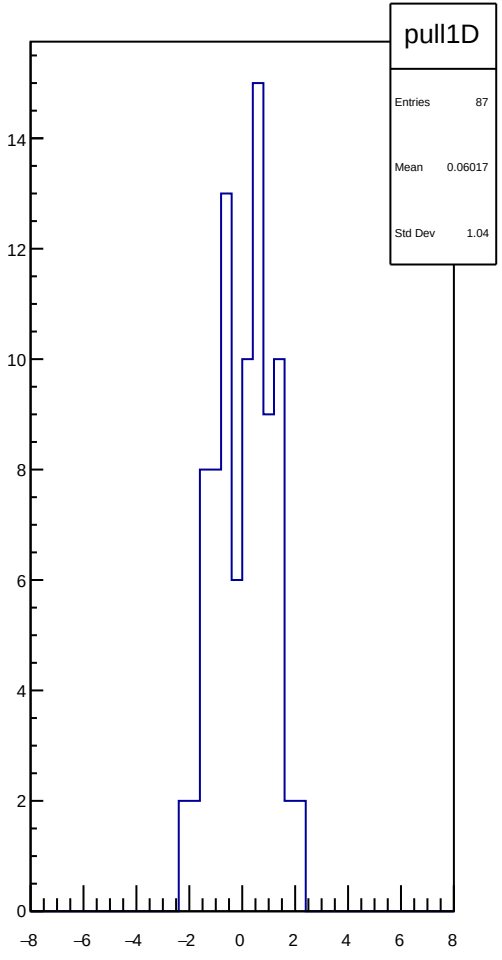

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1.751e+04 / 86
p0 2270 ± 1.719
2700
2600
2500
2400
2300
2200
2100
2000

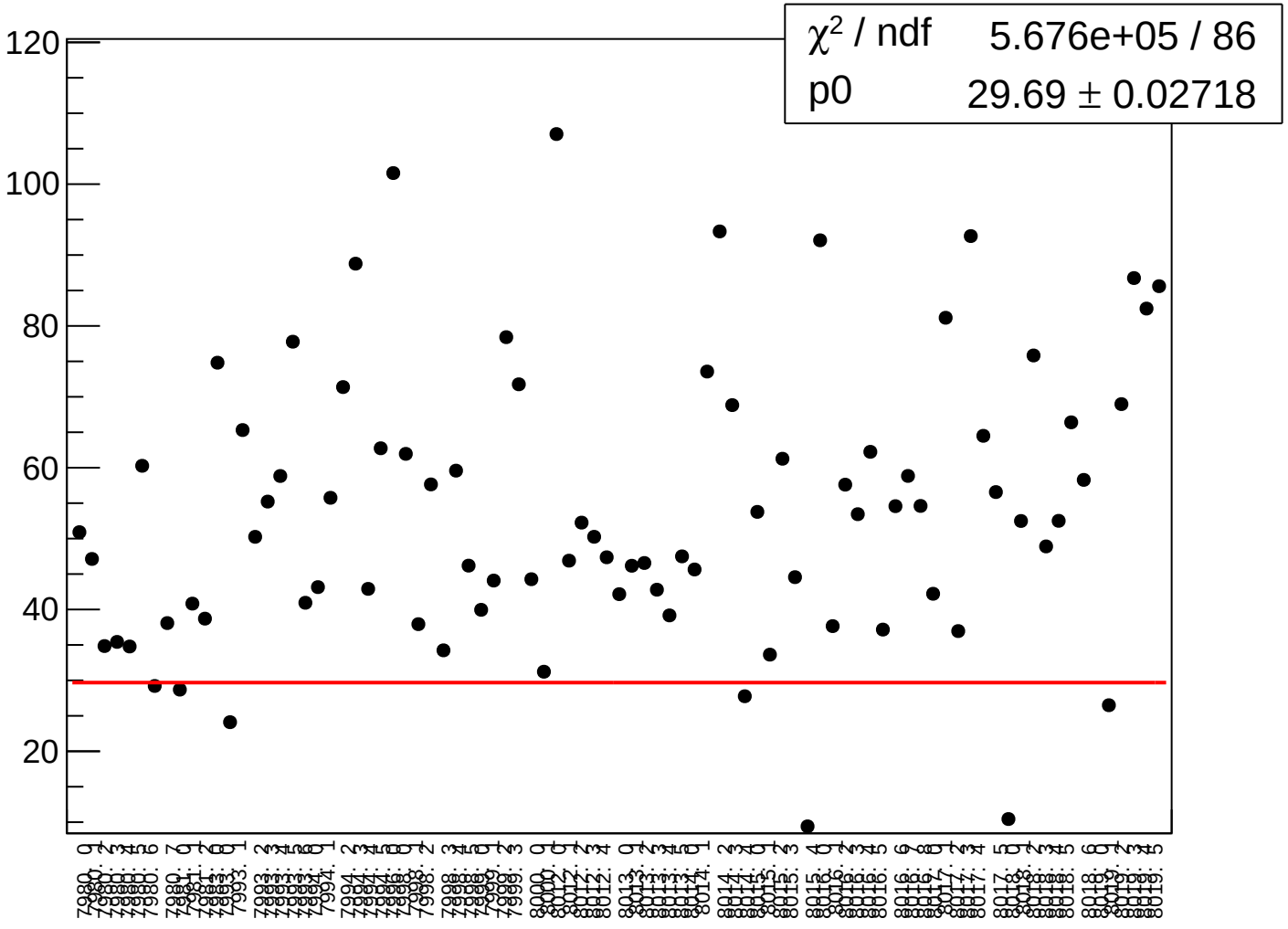

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.57 / 86
p0 1.605e−13 ± 2.227e−13
pull
Entries 87
Mean 96.78
Std Dev 0

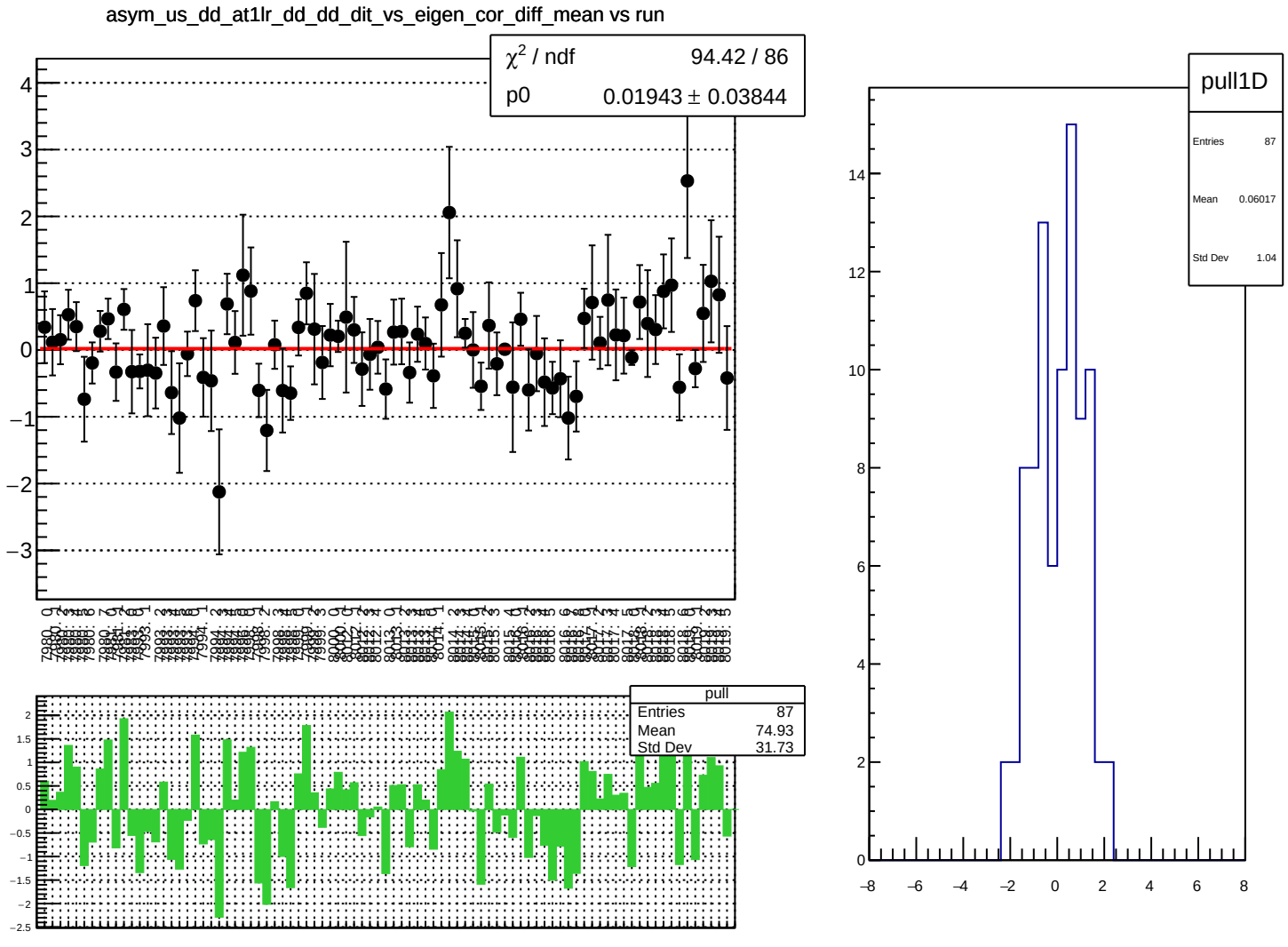

pull1D
Entries 87
Mean 0.03377
Std Dev 0.9736

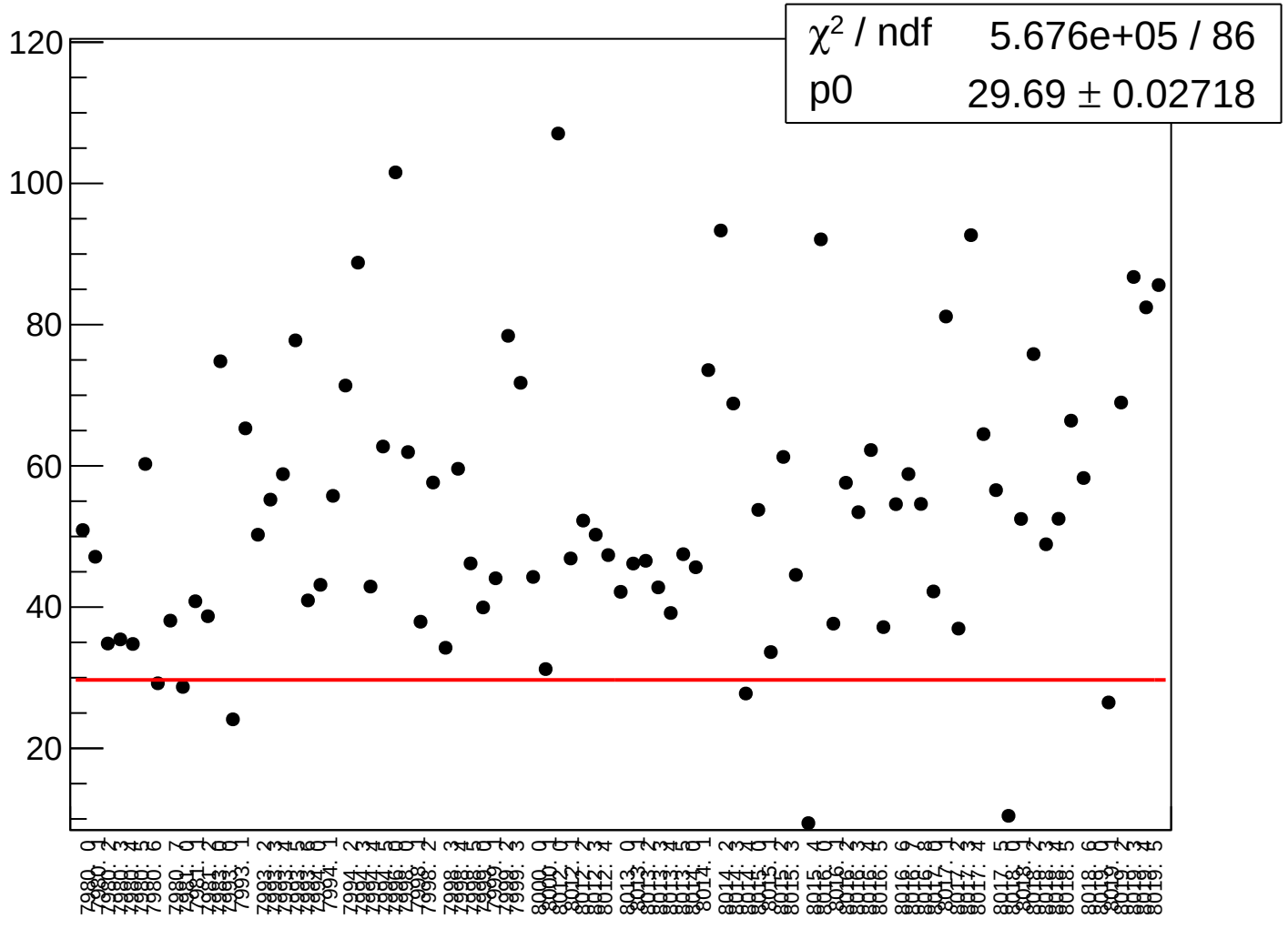

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.114e+06 / 86
p0 1.267e−10 ± 1.575e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

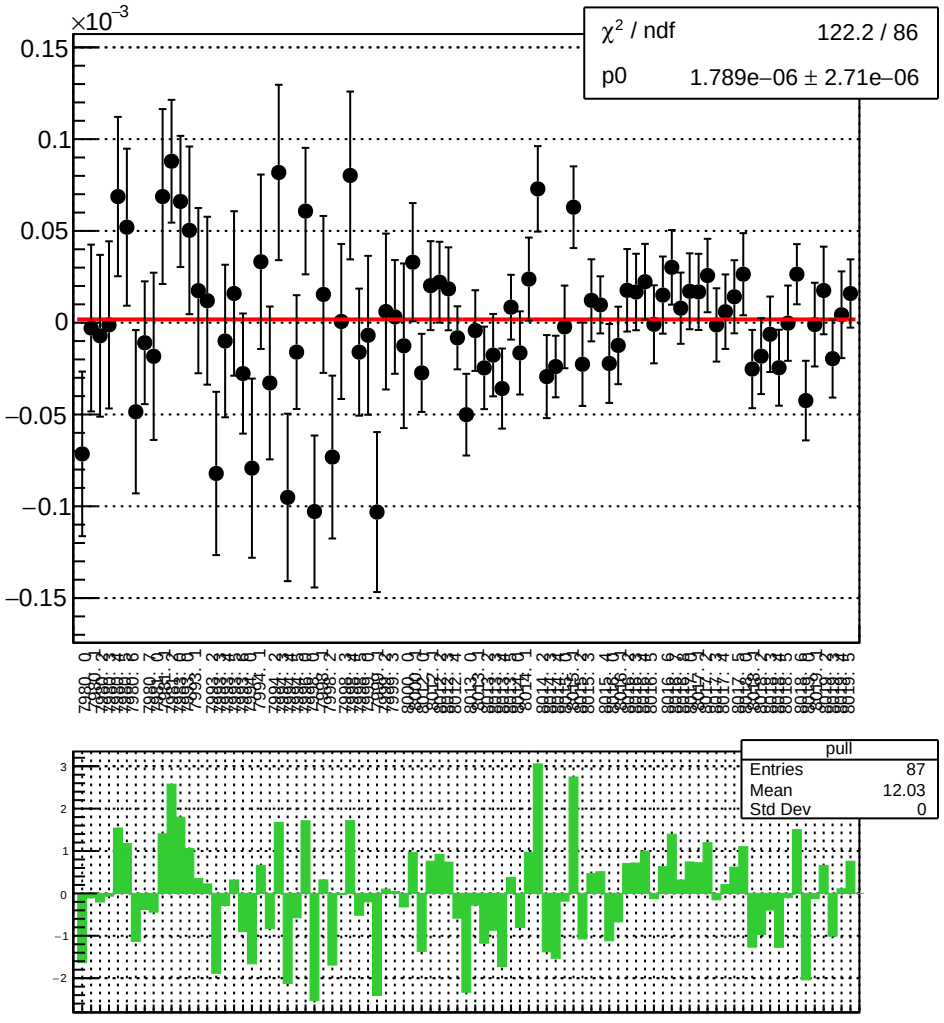

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.42 / 86
p0 0.01943 ± 0.03844
pull
Entries 87
Mean 74.93
Std Dev 31.73

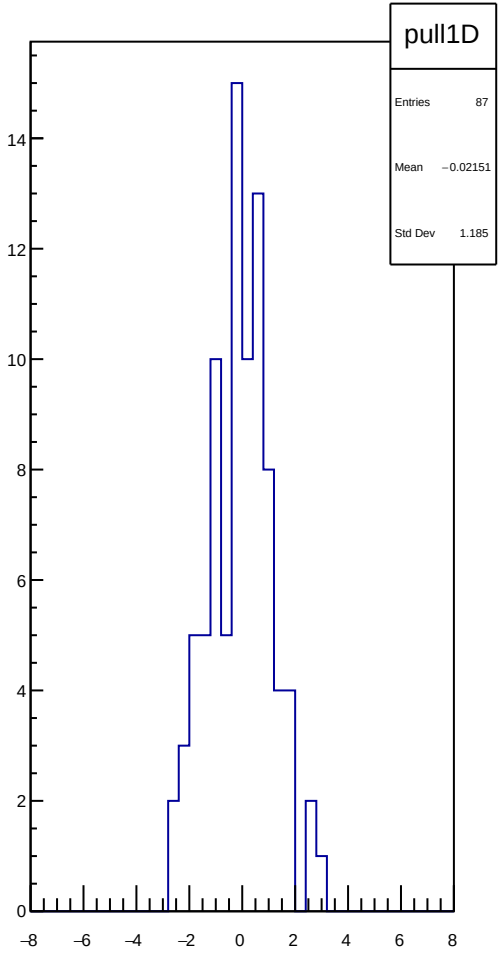

pull1D
Entries 87
Mean 0.06017
Std Dev 1.04

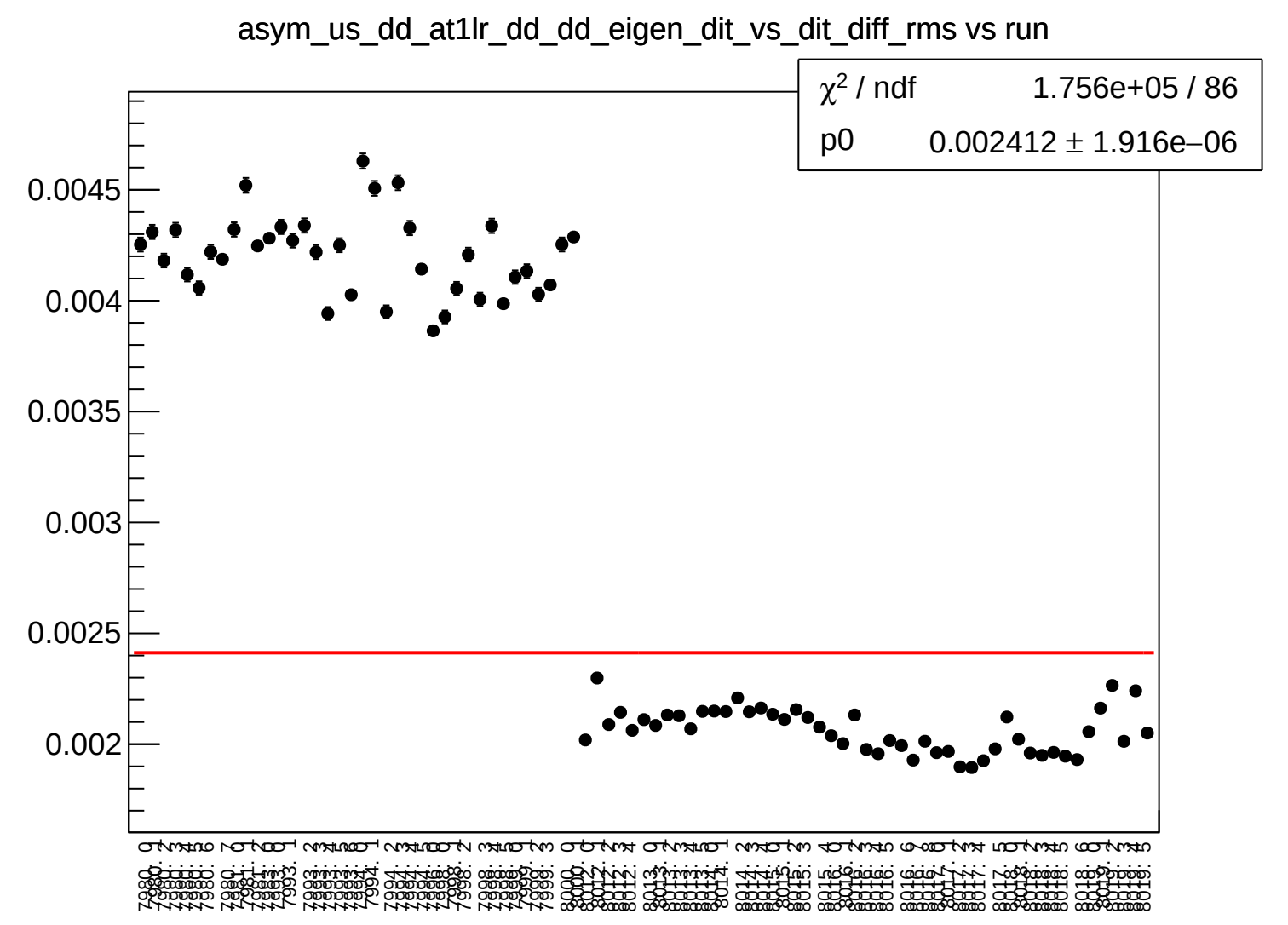

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.676e+05 / 86
p0 29.69 ± 0.02718
120
100
80
60
40
20

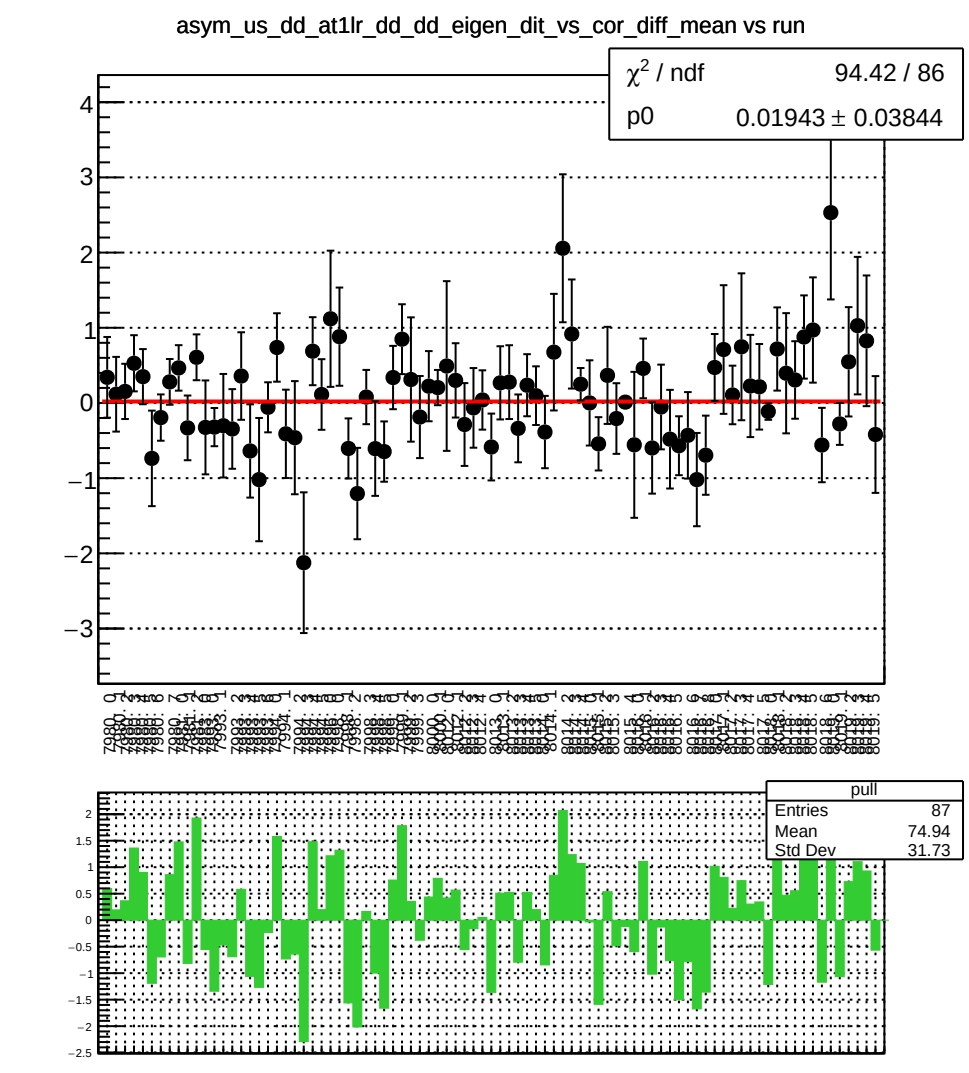

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.42 / 86
p0 0.01943 ± 0.03844
pull
Entries 87
Mean 74.93
Std Dev 31.73
pull1D
Entries 87
Mean 0.06017
Std Dev 1.04

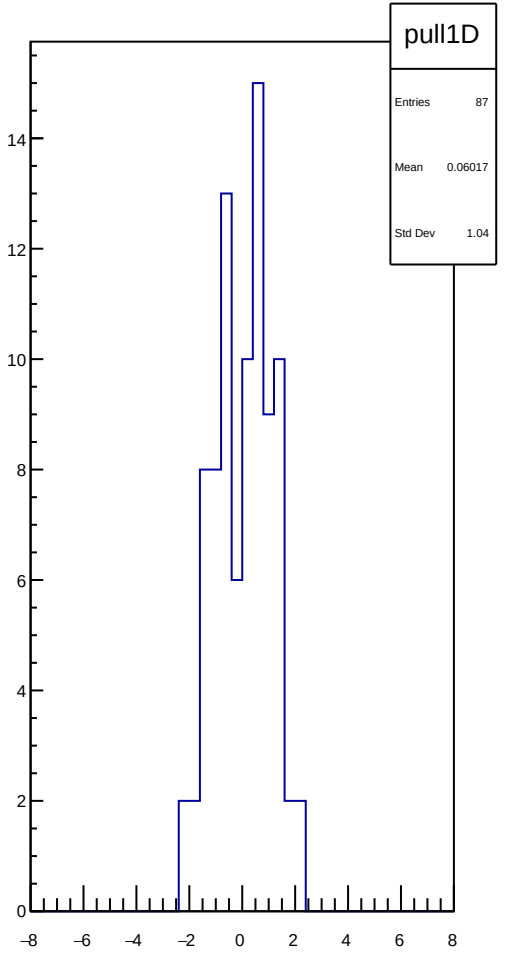

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.676e+05 / 86
p0 29.69 ± 0.02718
120
100
80
60
40
20

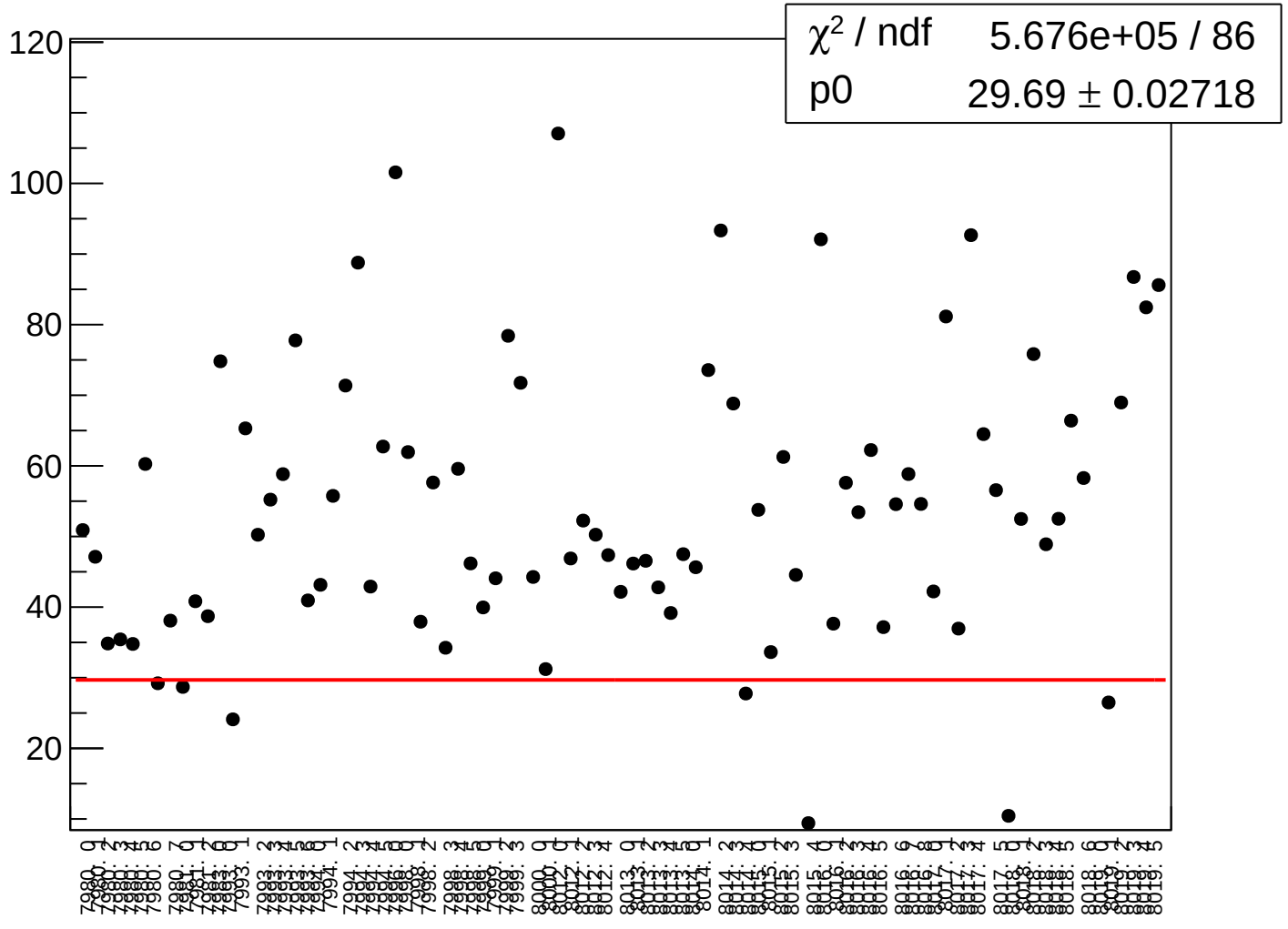

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 122.2 / 86
p0 1.789e−06 ± 2.71e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean 12.03
Std Dev 0
3
2
1
0
−1
−2

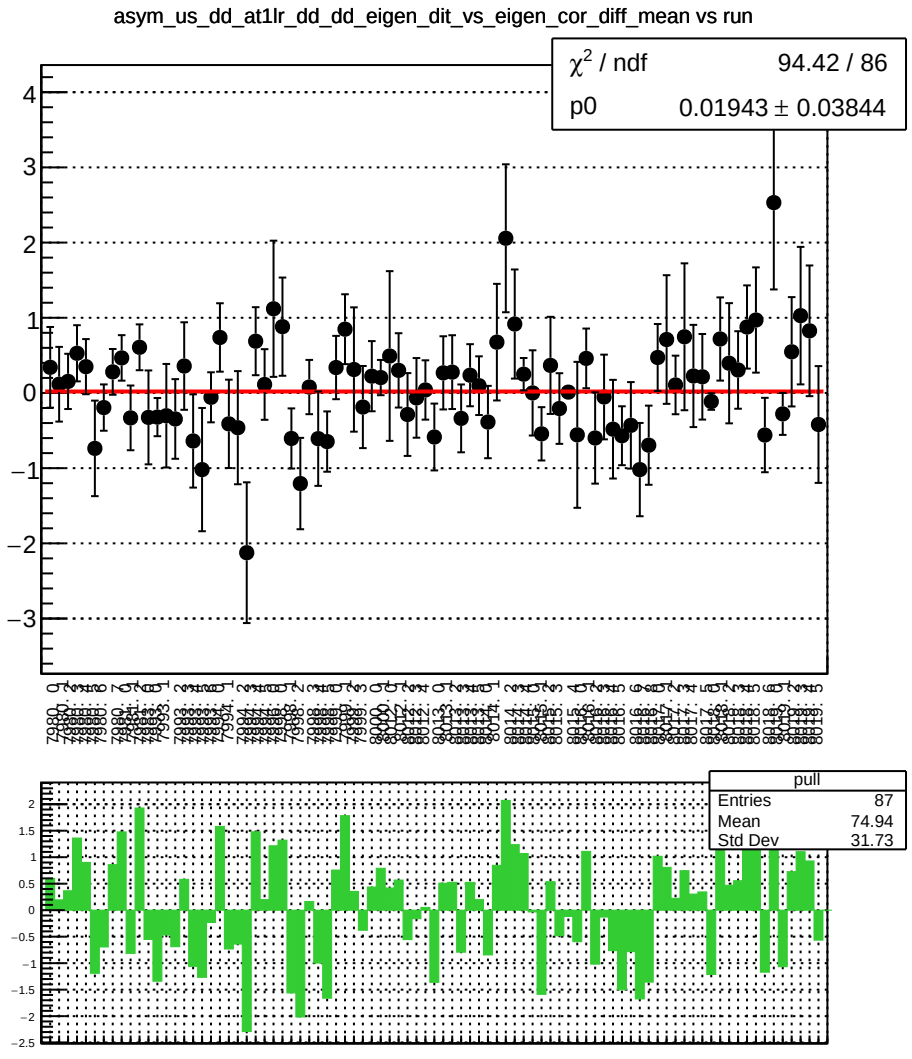

pull1D
Entries 87
Mean −0.02151
Std Dev 1.185
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

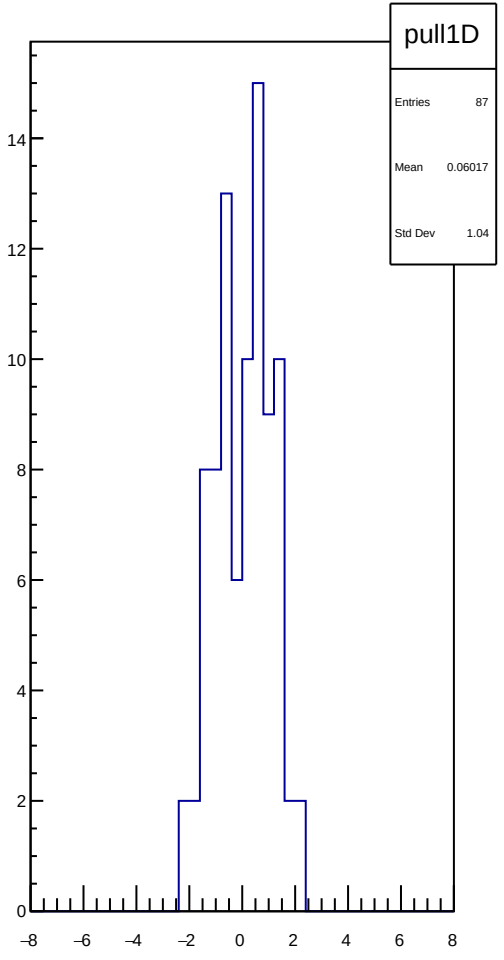

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.756e+05 / 86
p0 0.002412 ± 1.916e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

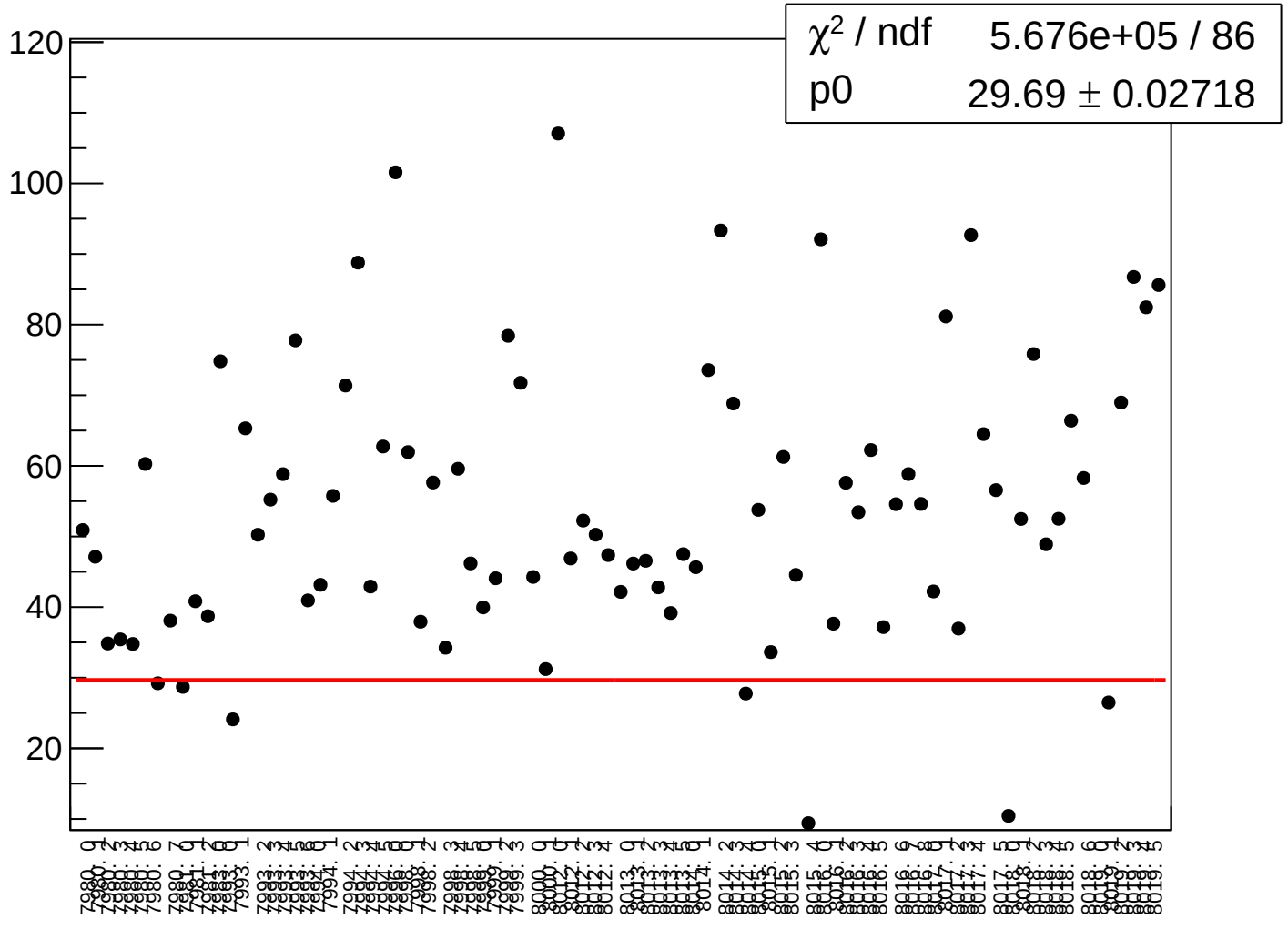

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.42 / 86
p0 0.01943 ± 0.03844
pull
Entries 87
Mean 74.94
Std Dev 31.73

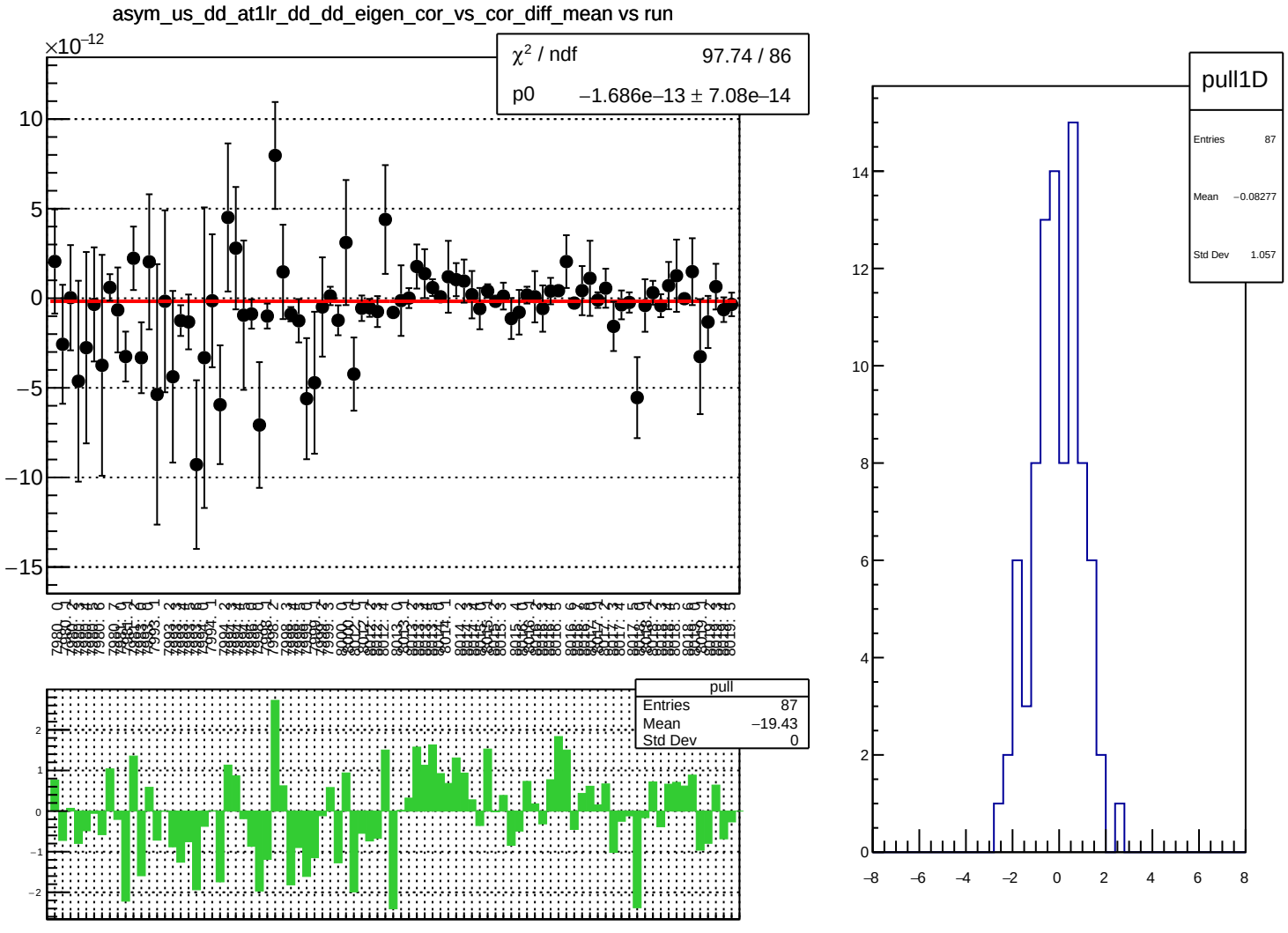

pull1D
Entries 87
Mean 0.06017
Std Dev 1.04

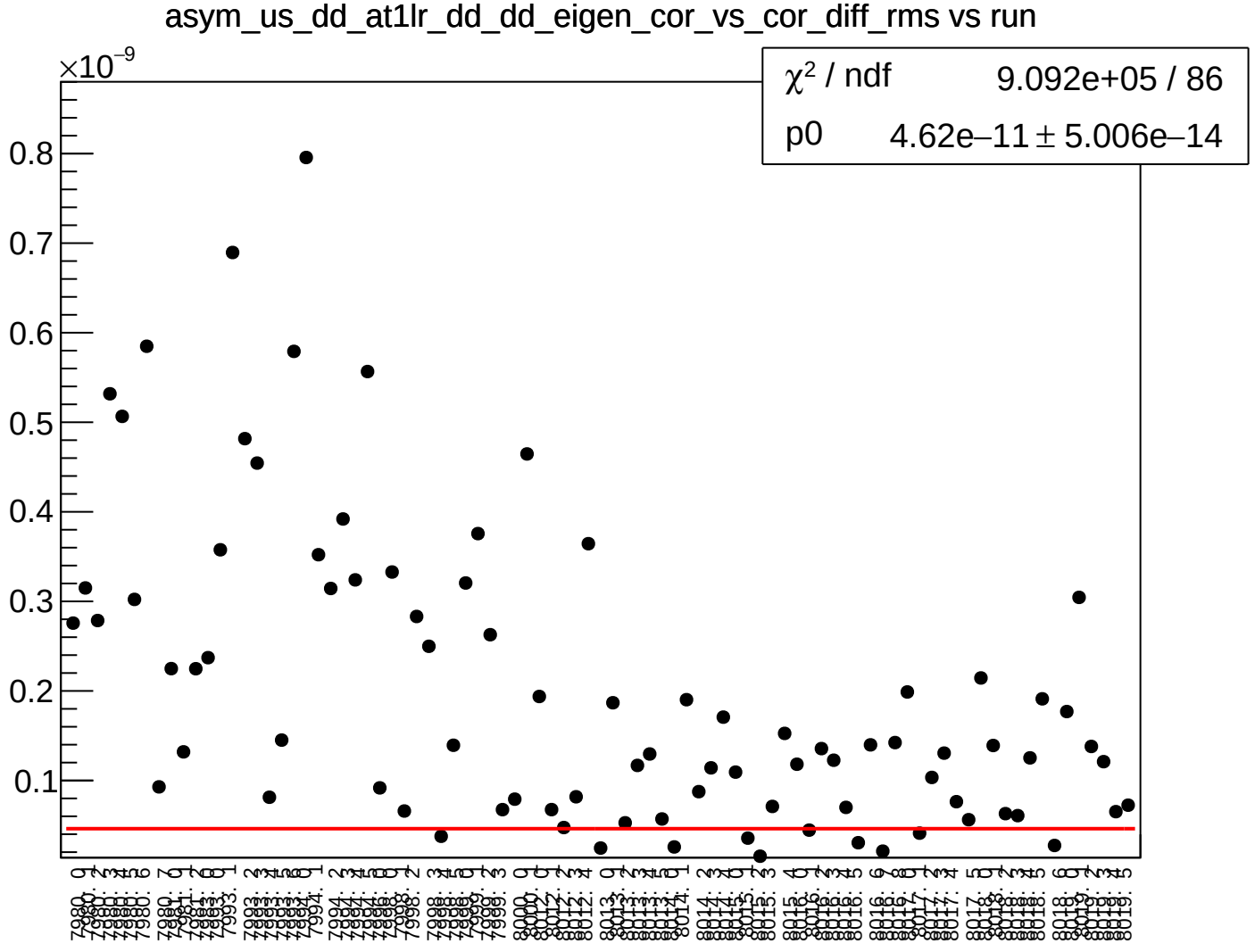

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.676e+05 / 86
p0 29.69 ± 0.02718
120
100
80
60
40
20

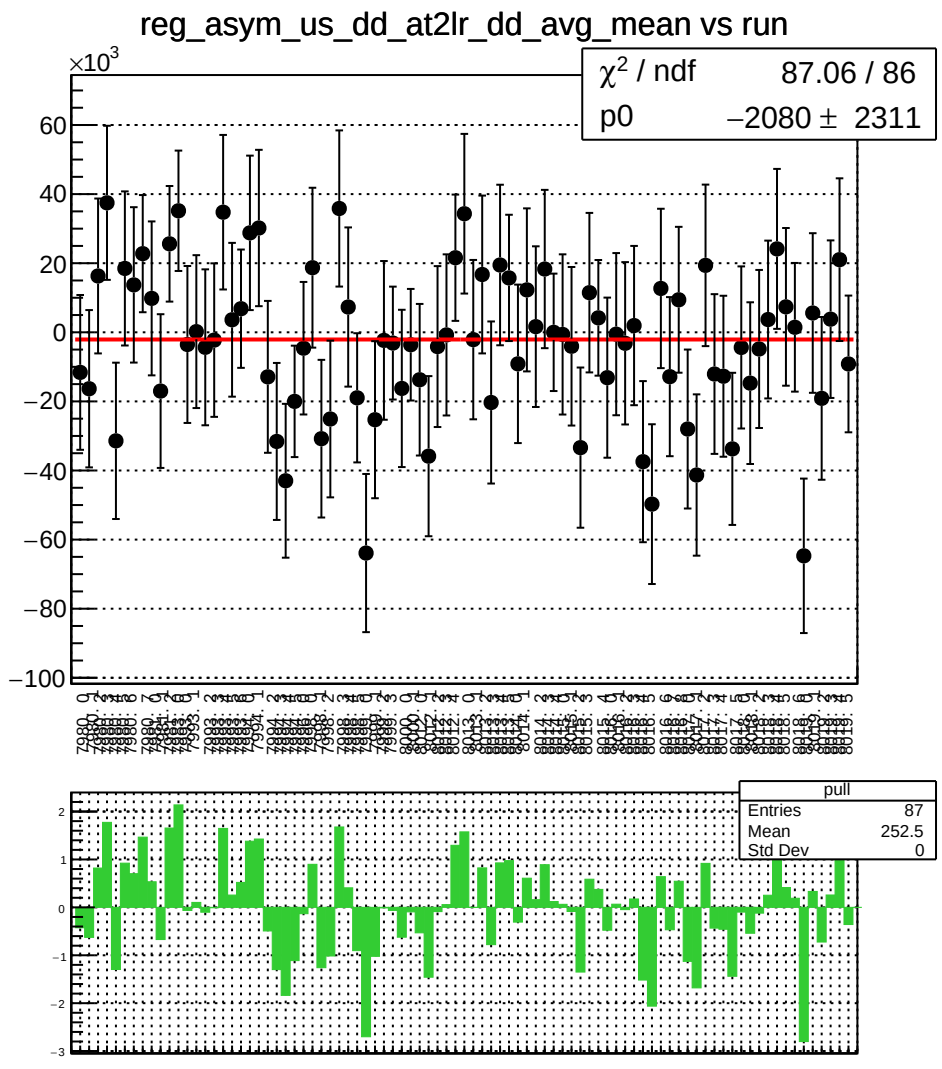

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.42 / 86
p0 0.01943 ± 0.03844
pull
Entries 87
Mean 74.94
Std Dev 31.73

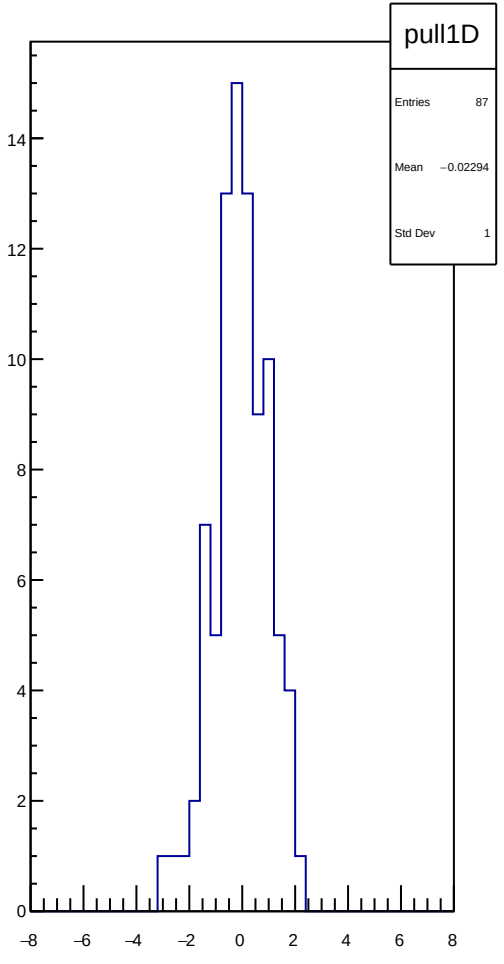

pull1D
Entries 87
Mean 0.06017
Std Dev 1.04

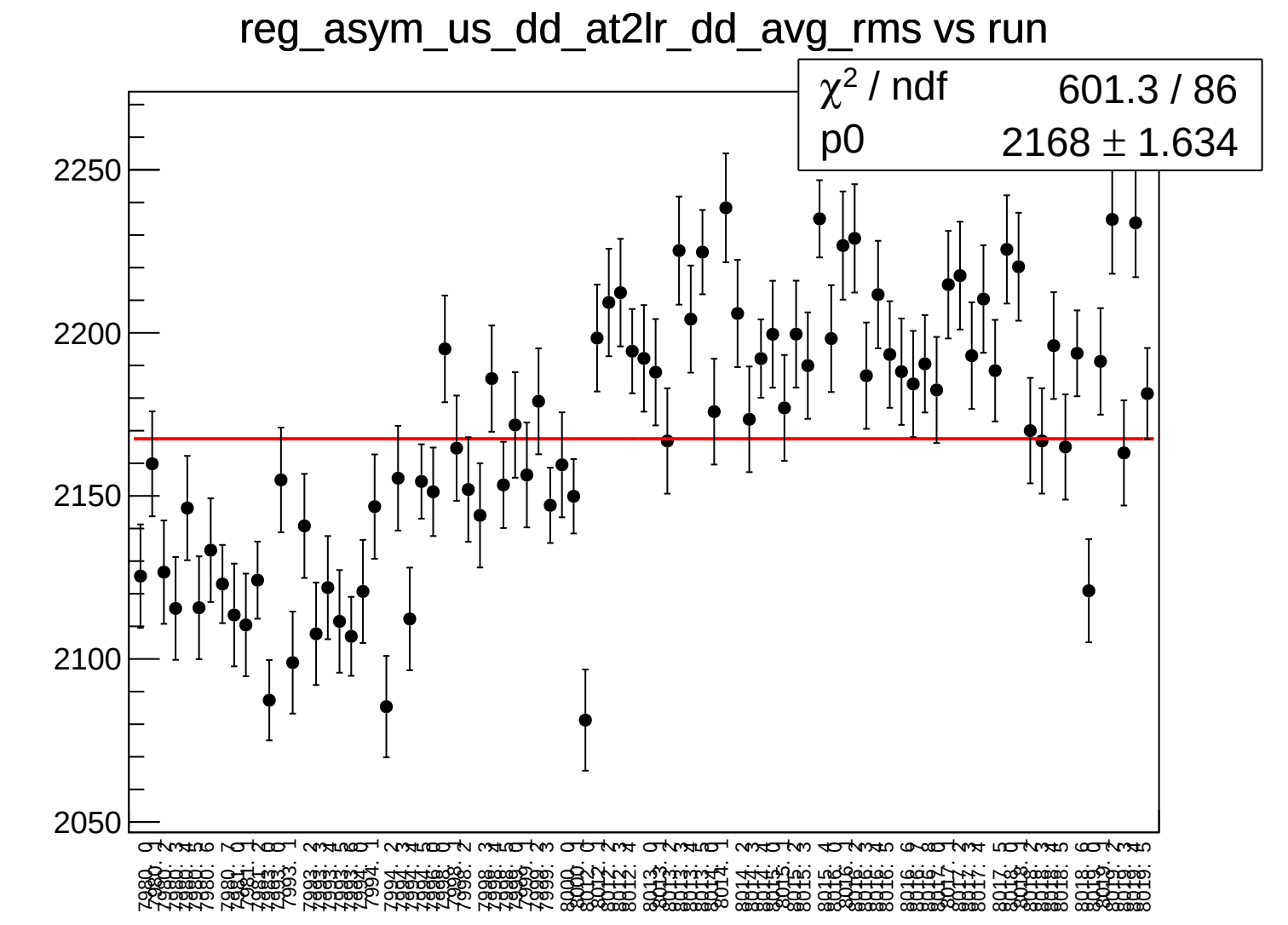

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.676e+05 / 86
p0 29.69 ± 0.02718
120
100
80
60
40
20

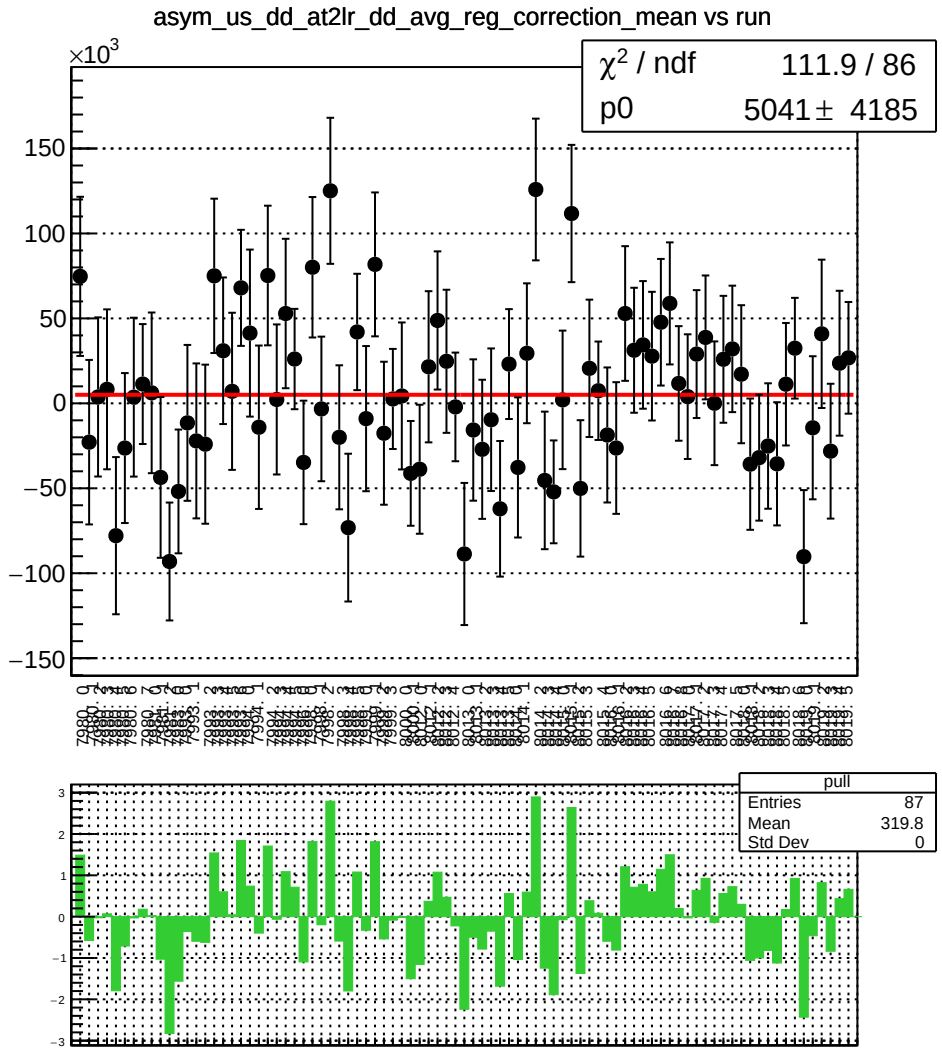

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.74 / 86
p0 −1.686e−13 ± 7.08e−14
pull
Entries 87
Mean −19.43
Std Dev 0
pull1D
Entries 87
Mean −0.08277
Std Dev 1.057

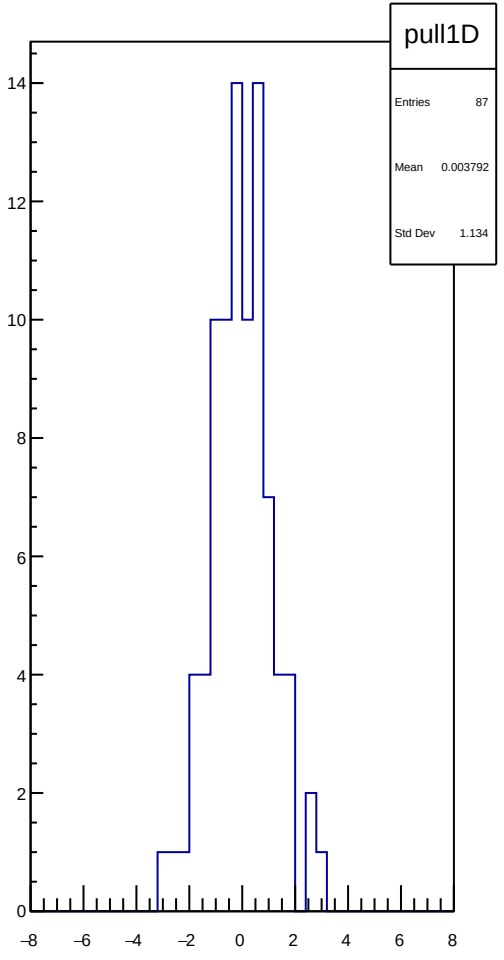

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.092e+05 / 86
p0 4.62e−11 ± 5.006e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

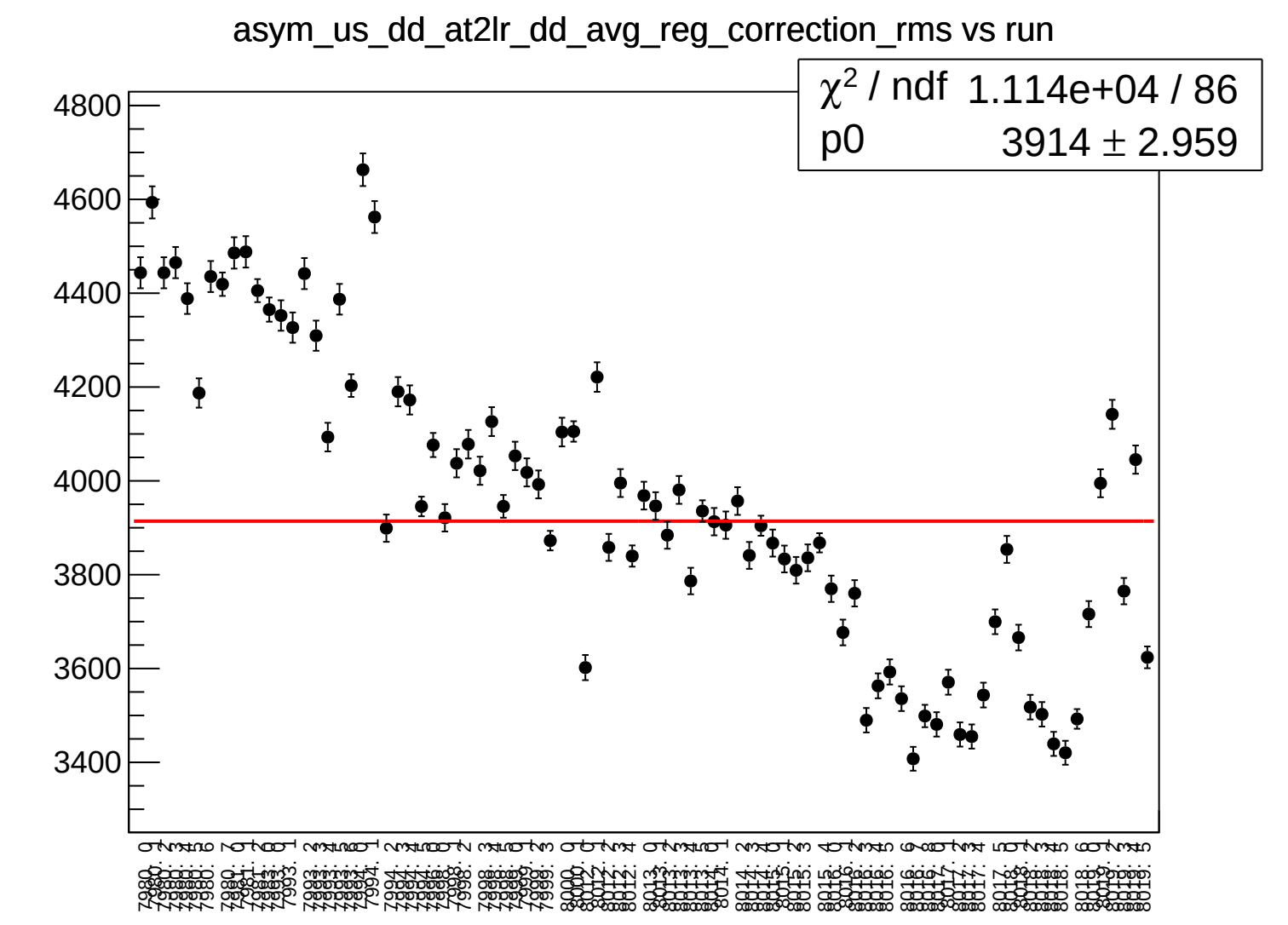

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 87.06 / 86
p0 −2080 ± 2311
pull
Entries 87
Mean 252.5
Std Dev 0

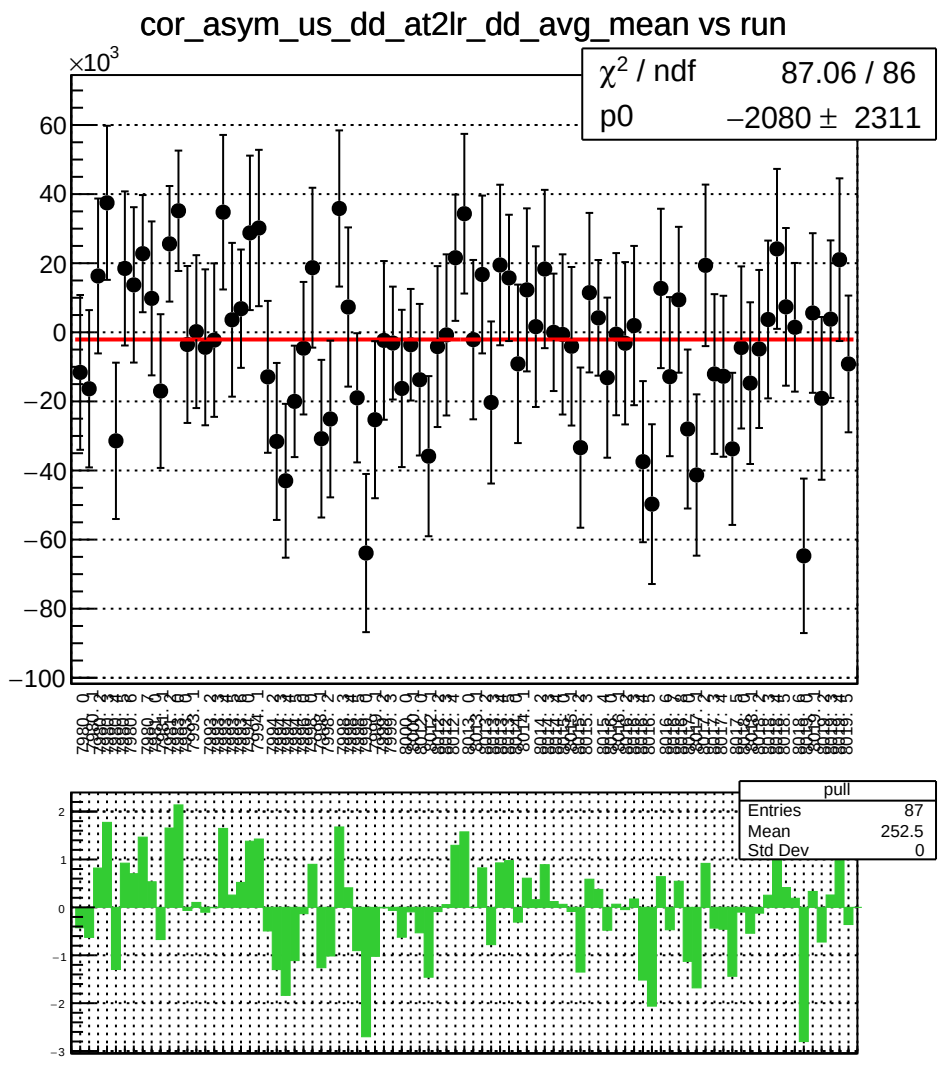

pull1D
Entries 87
Mean −0.02294
Std Dev 1

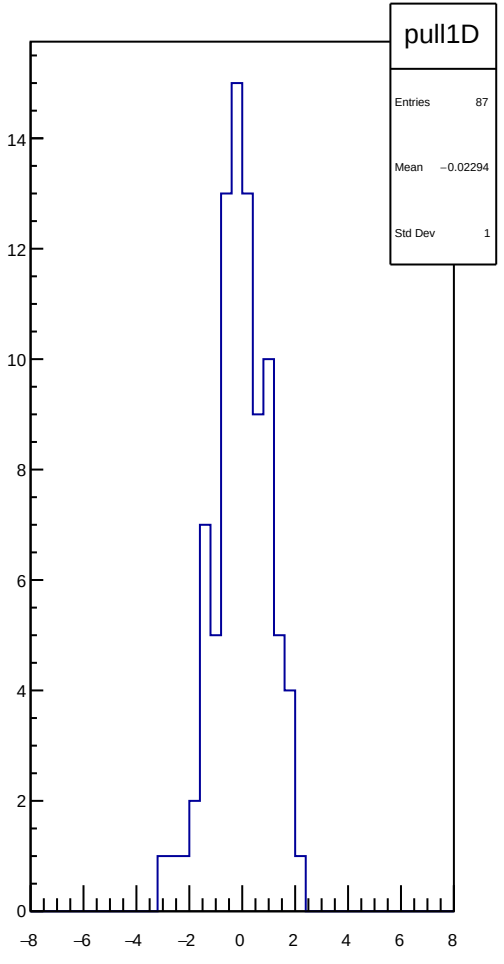

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 601.3 / 86
p0 2168 ± 1.634
2250
2200
2150
2100
2050

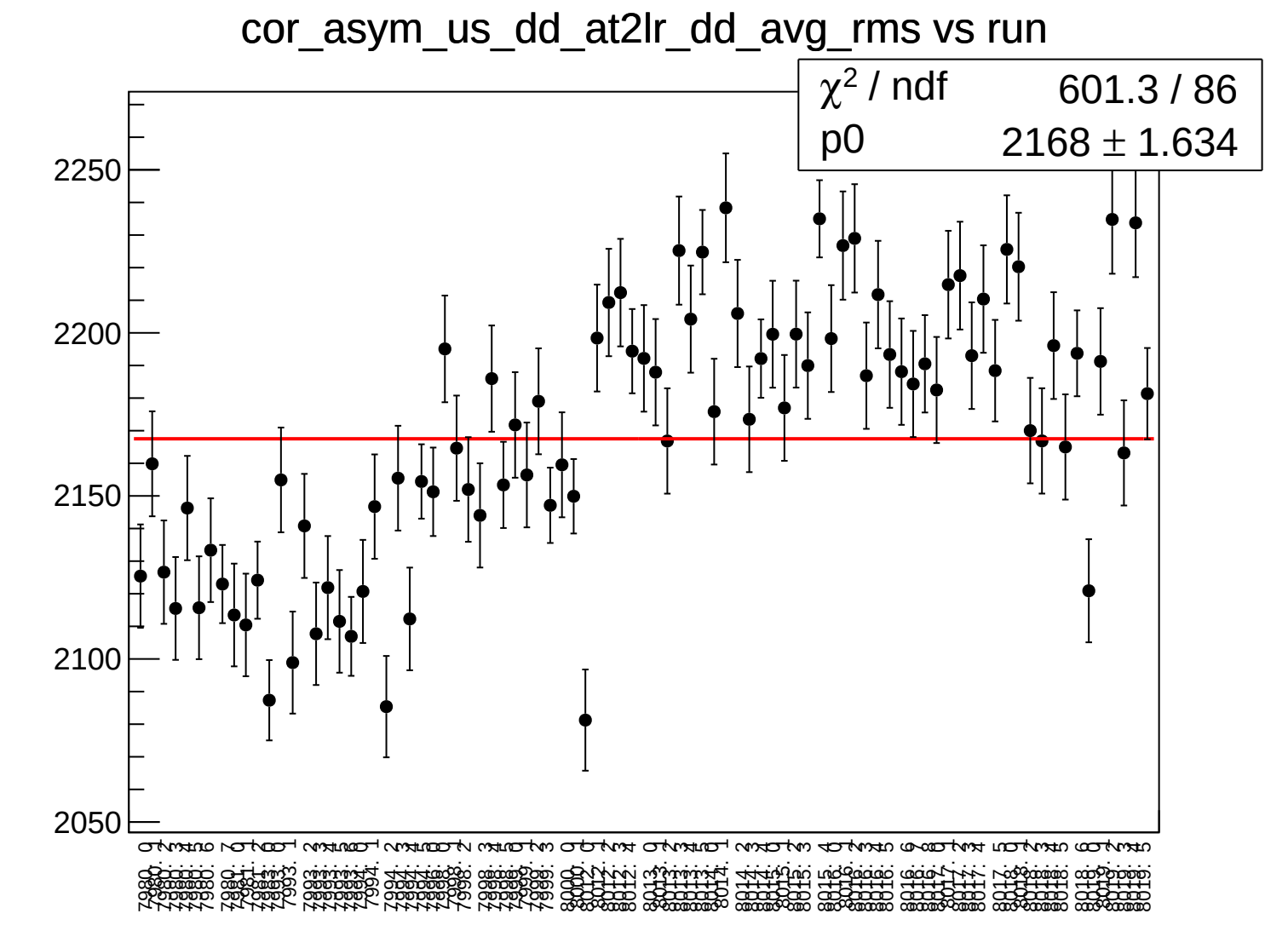

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 111.9 / 86
p0 5041 ± 4185
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 319.8
Std Dev 0
3
2
1
0
−1
−2
−3

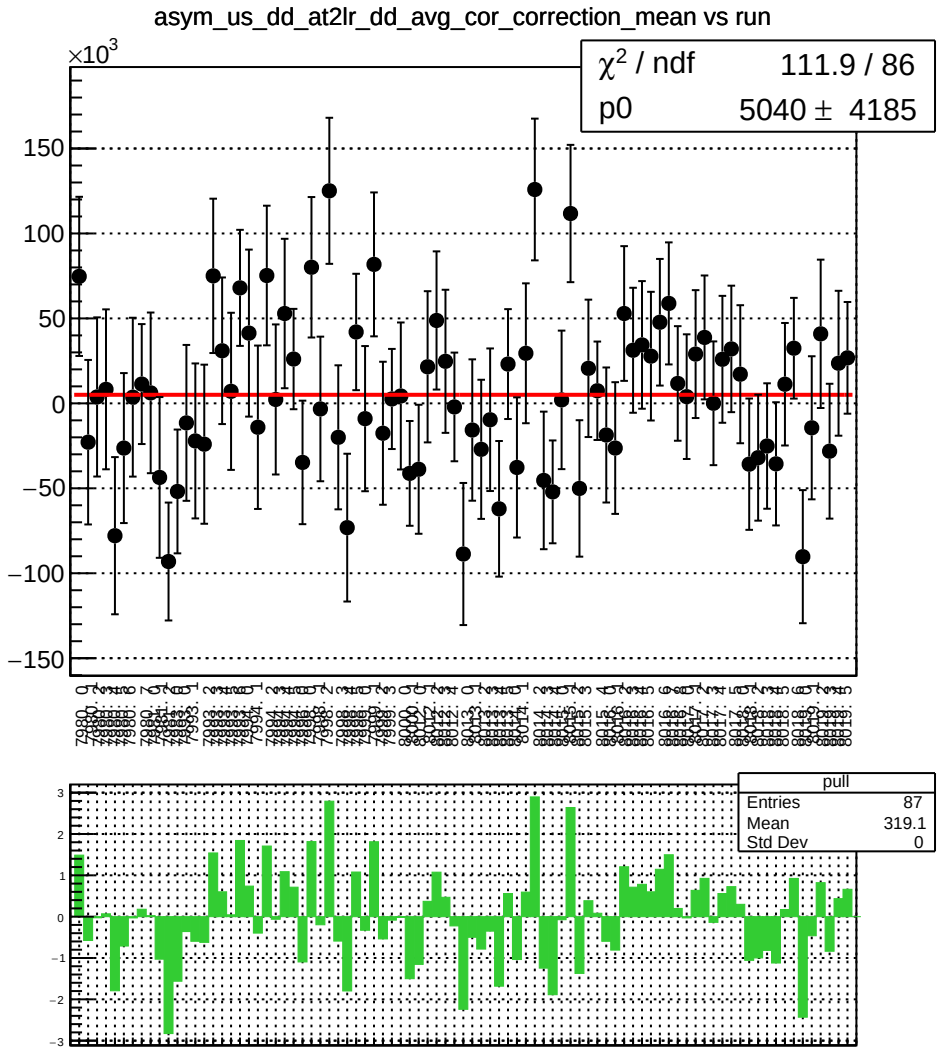

pull1D
Entries 87
Mean 0.003792
Std Dev 1.134
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

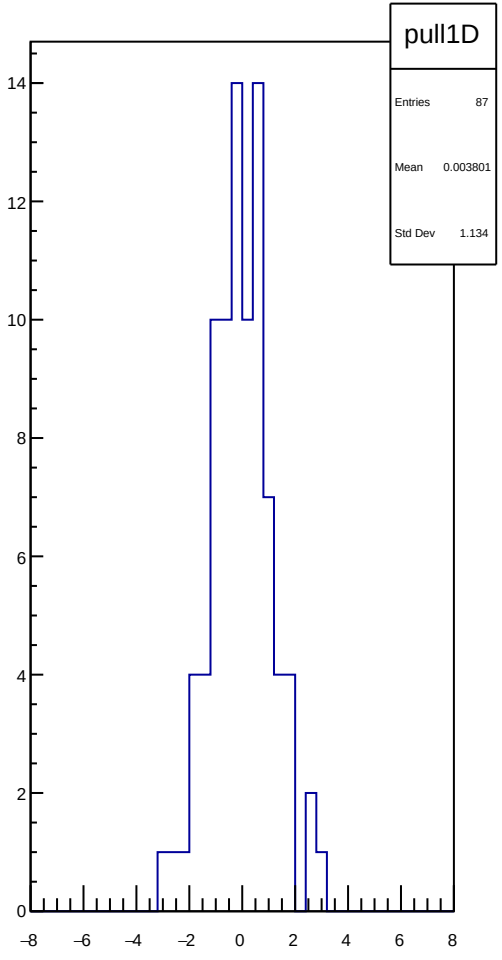

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.114e+04 / 86
p0 3914 ± 2.959
4800
4600
4400
4200
4000
3800
3600
3400

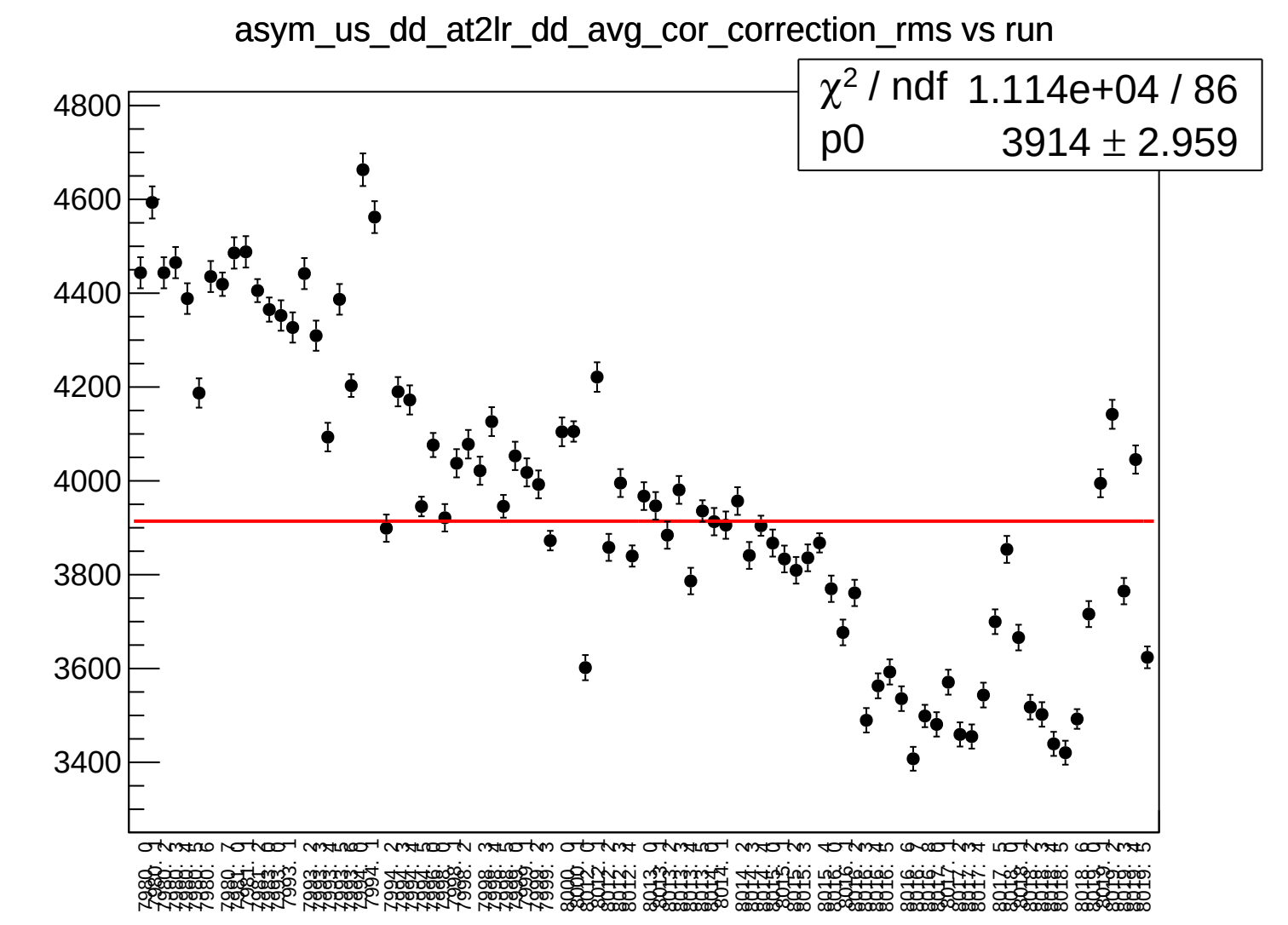

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 87.06 / 86
p0 −2080 ± 2311
pull
Entries 87
Mean 252.5
Std Dev 0

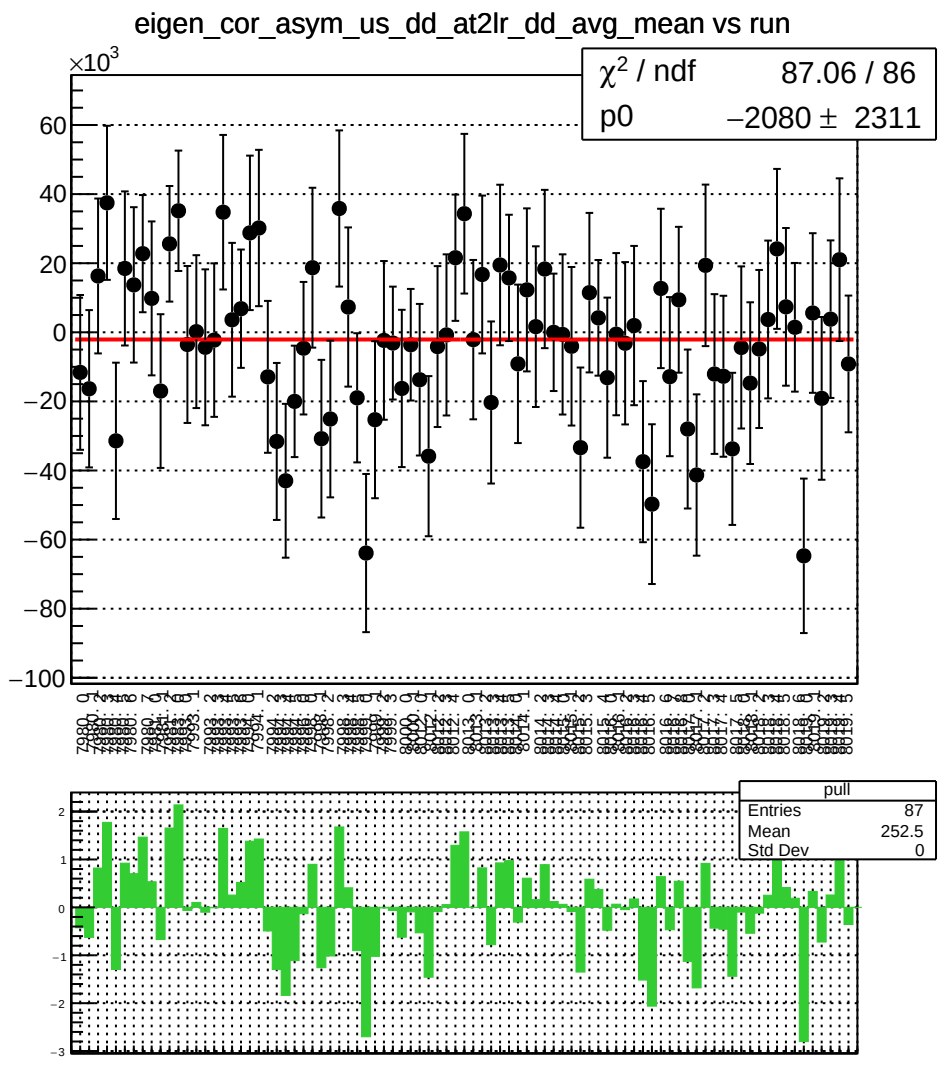

pull1D
Entries 87
Mean −0.02294
Std Dev 1

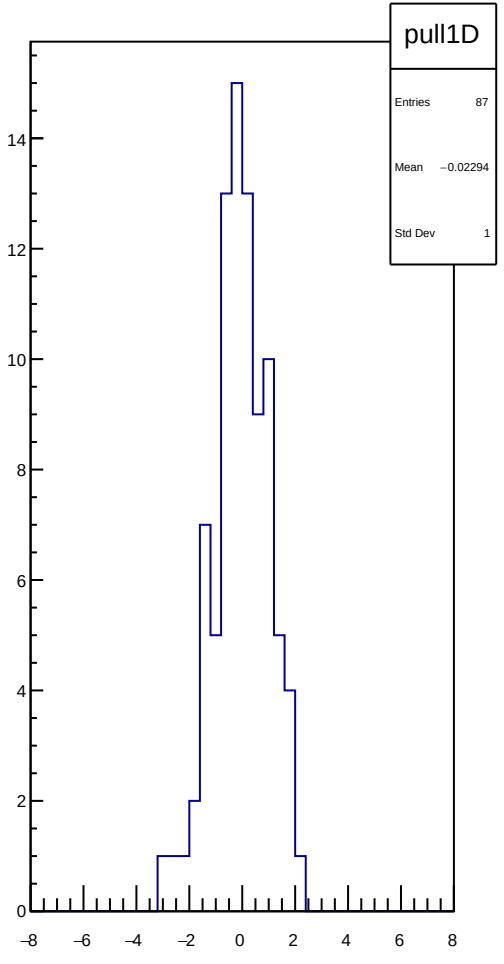

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 601.3 / 86
p0 2168 ± 1.634
2250
2200
2150
2100
2050

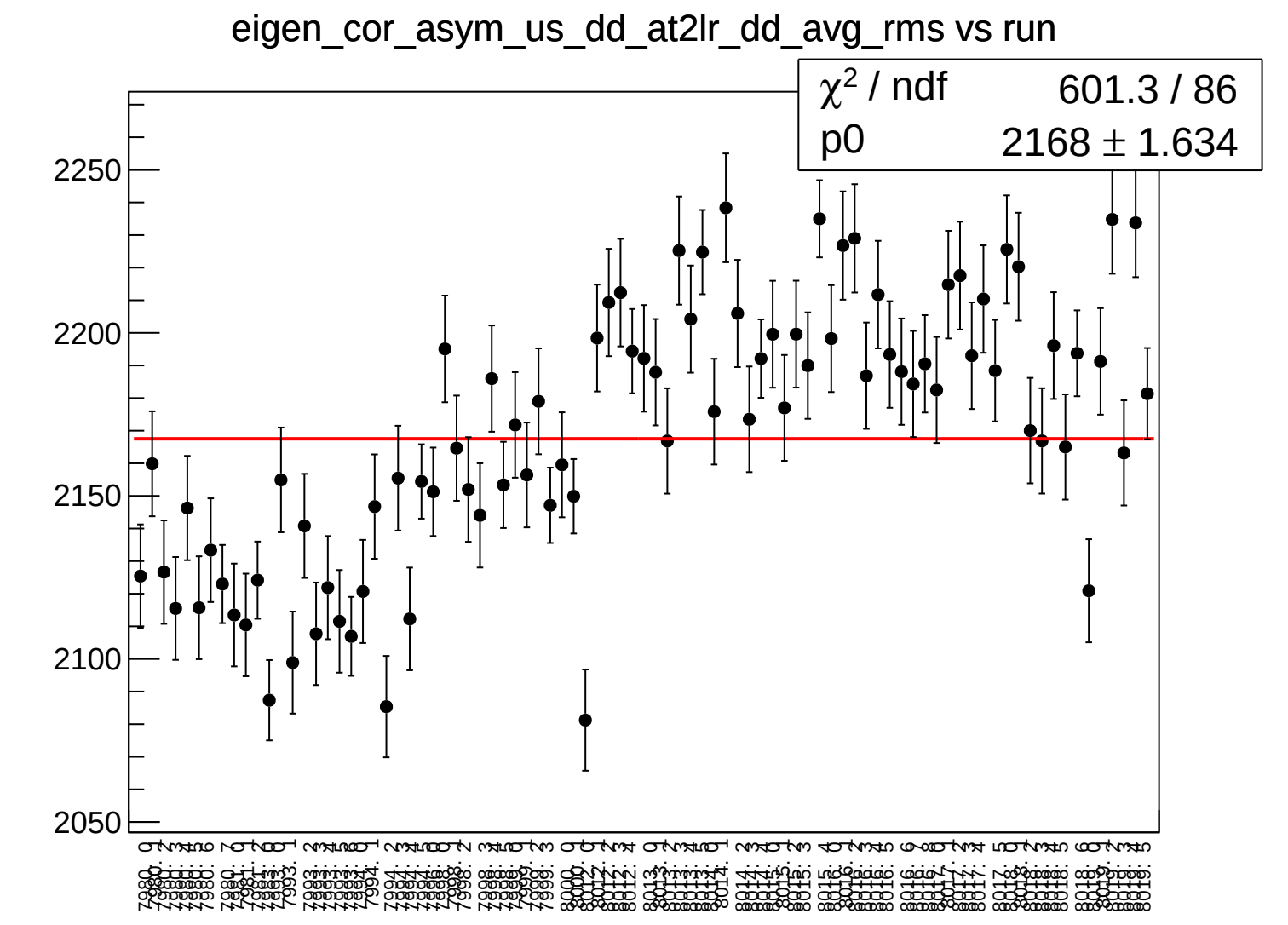

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 111.9 / 86
p0 5040 ± 4185
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 319.1
Std Dev 0
3
2
1
0
−1
−2
−3

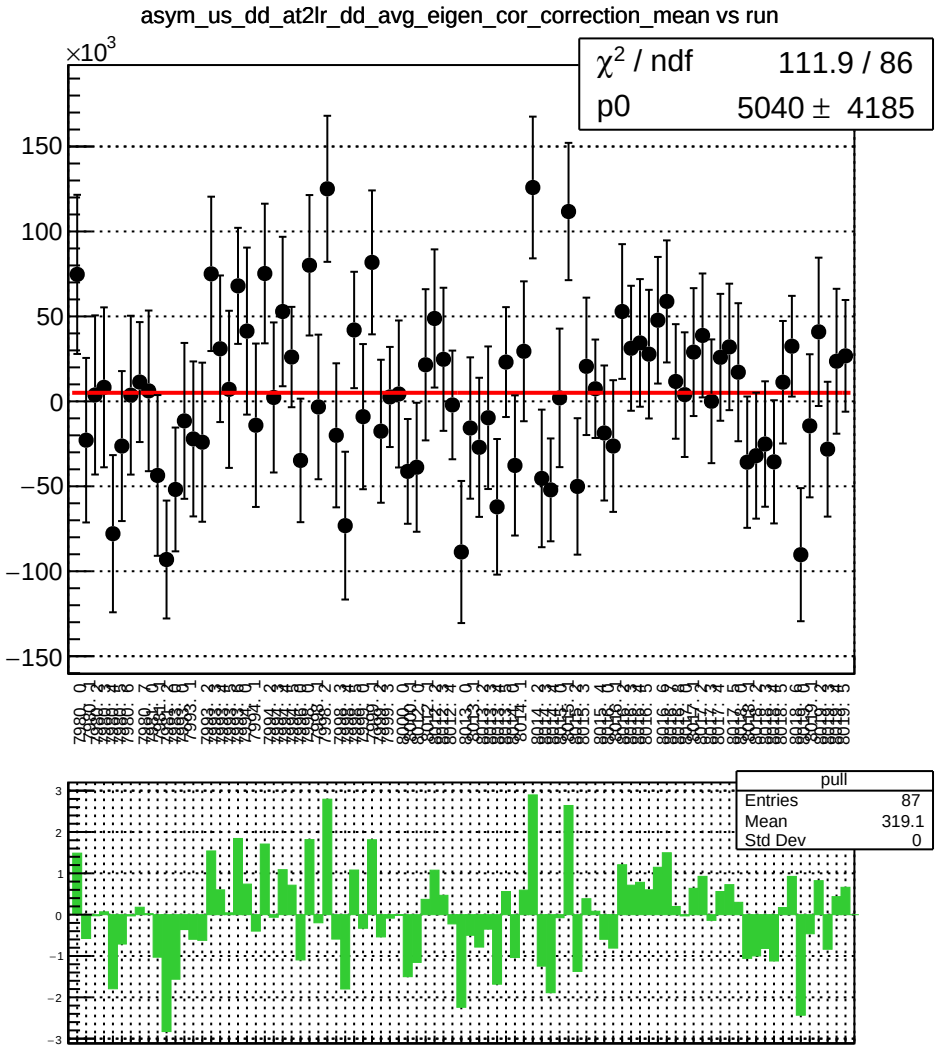

pull1D
Entries 87
Mean 0.003801
Std Dev 1.134
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

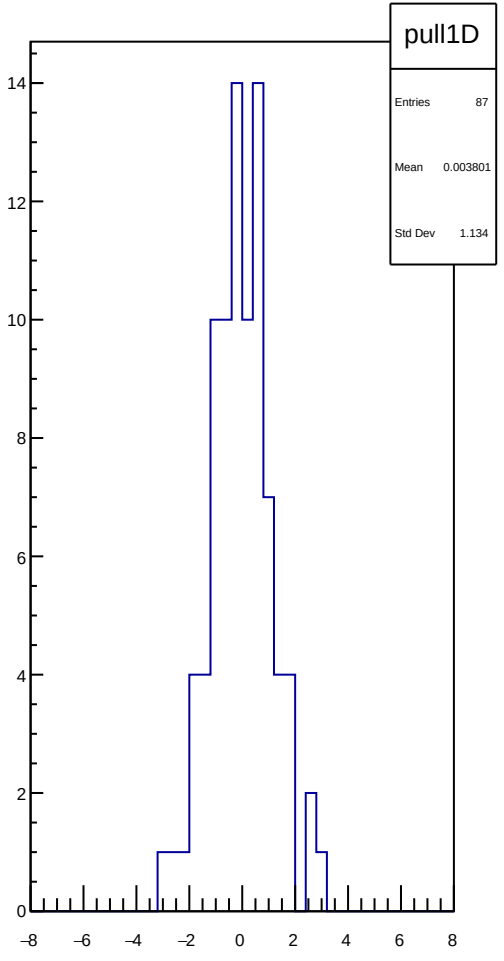

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.114e+04 / 86
p0 3914 ± 2.959
4800
4600
4400
4200
4000
3800
3600
3400

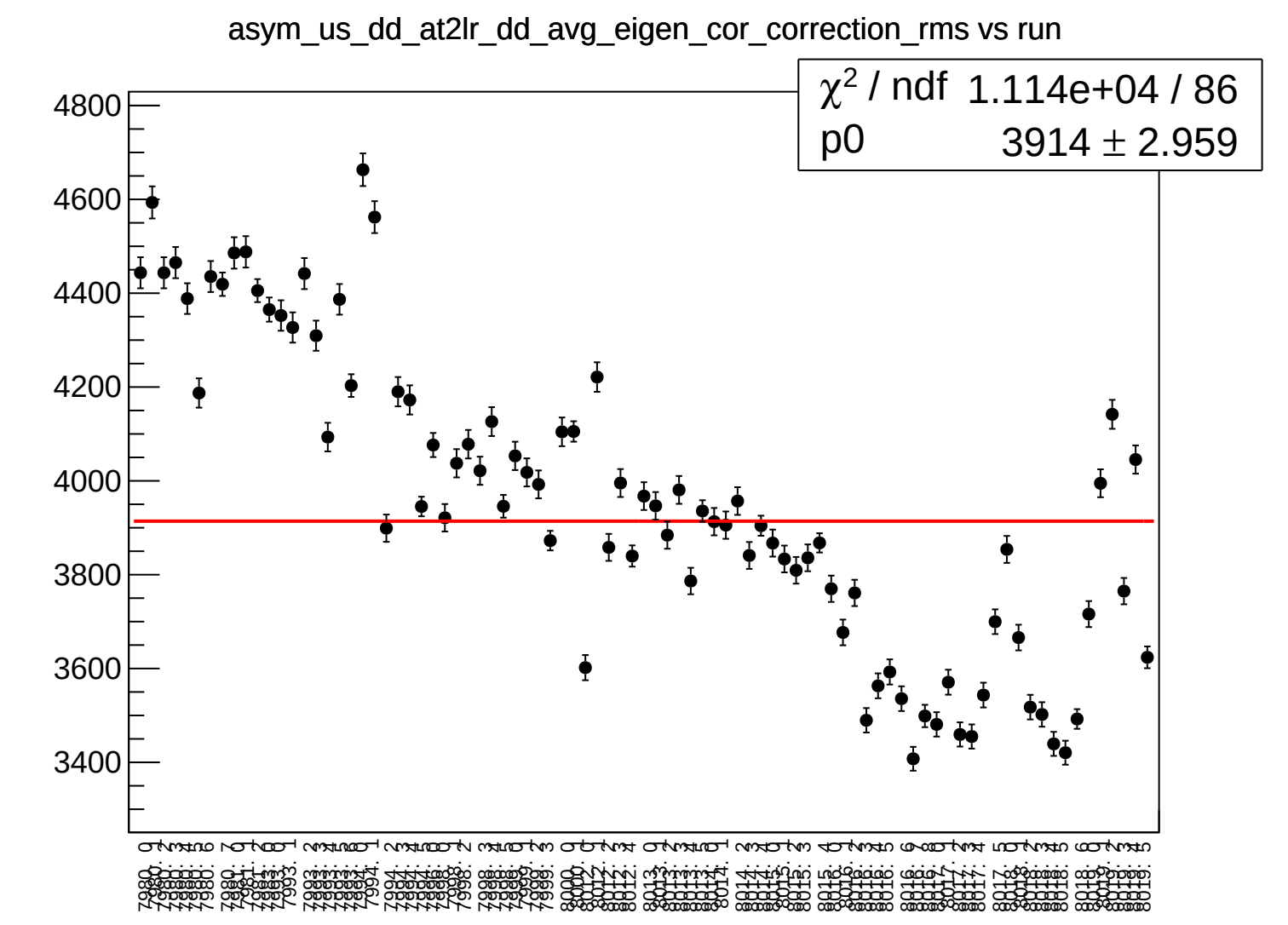

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 87.06 / 86
p0 −2080 ± 2311
×10³
pull
Entries 87
Mean 252.5
Std Dev 0

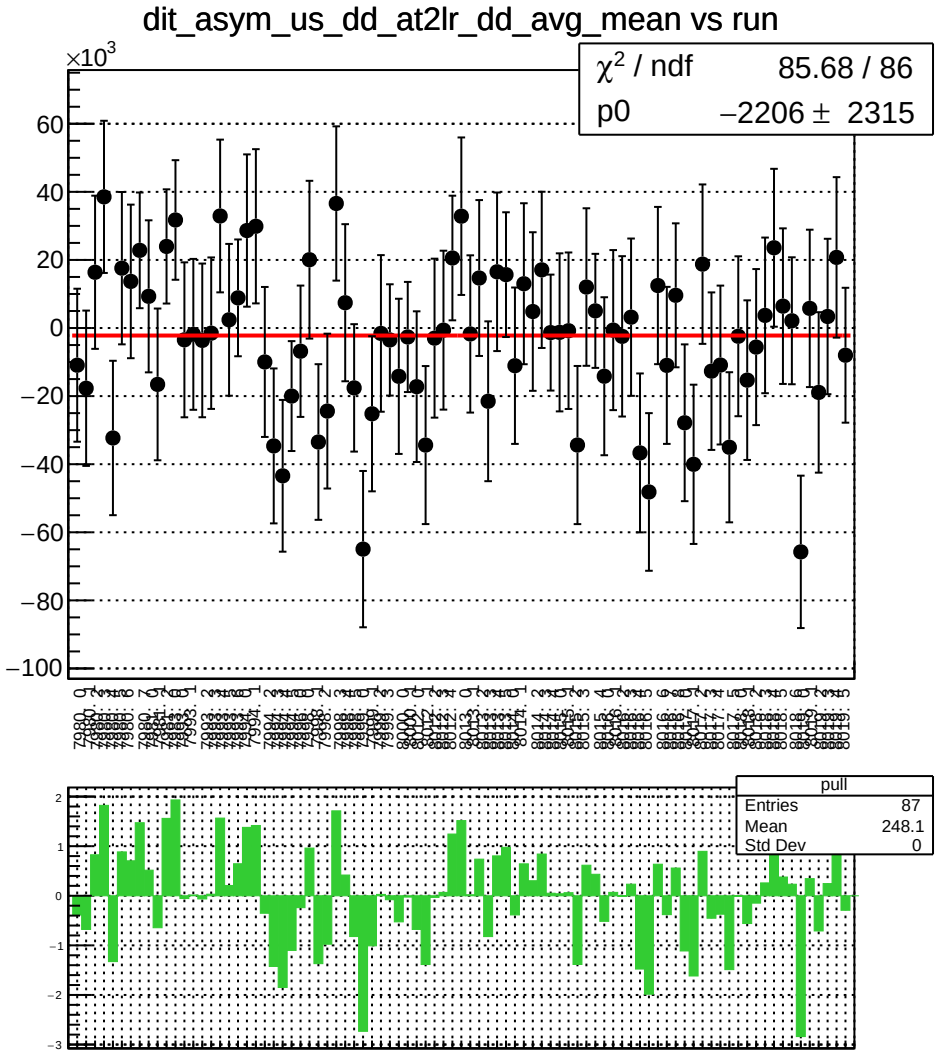

pull1D
Entries 87
Mean −0.02294
Std Dev 1

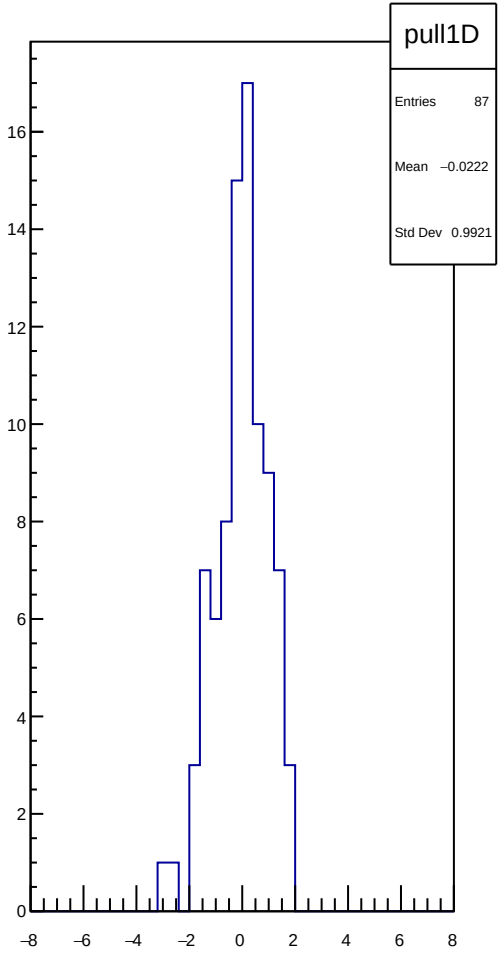

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 601.3 / 86
p0 2168 ± 1.634
2250
2200
2150
2100
2050

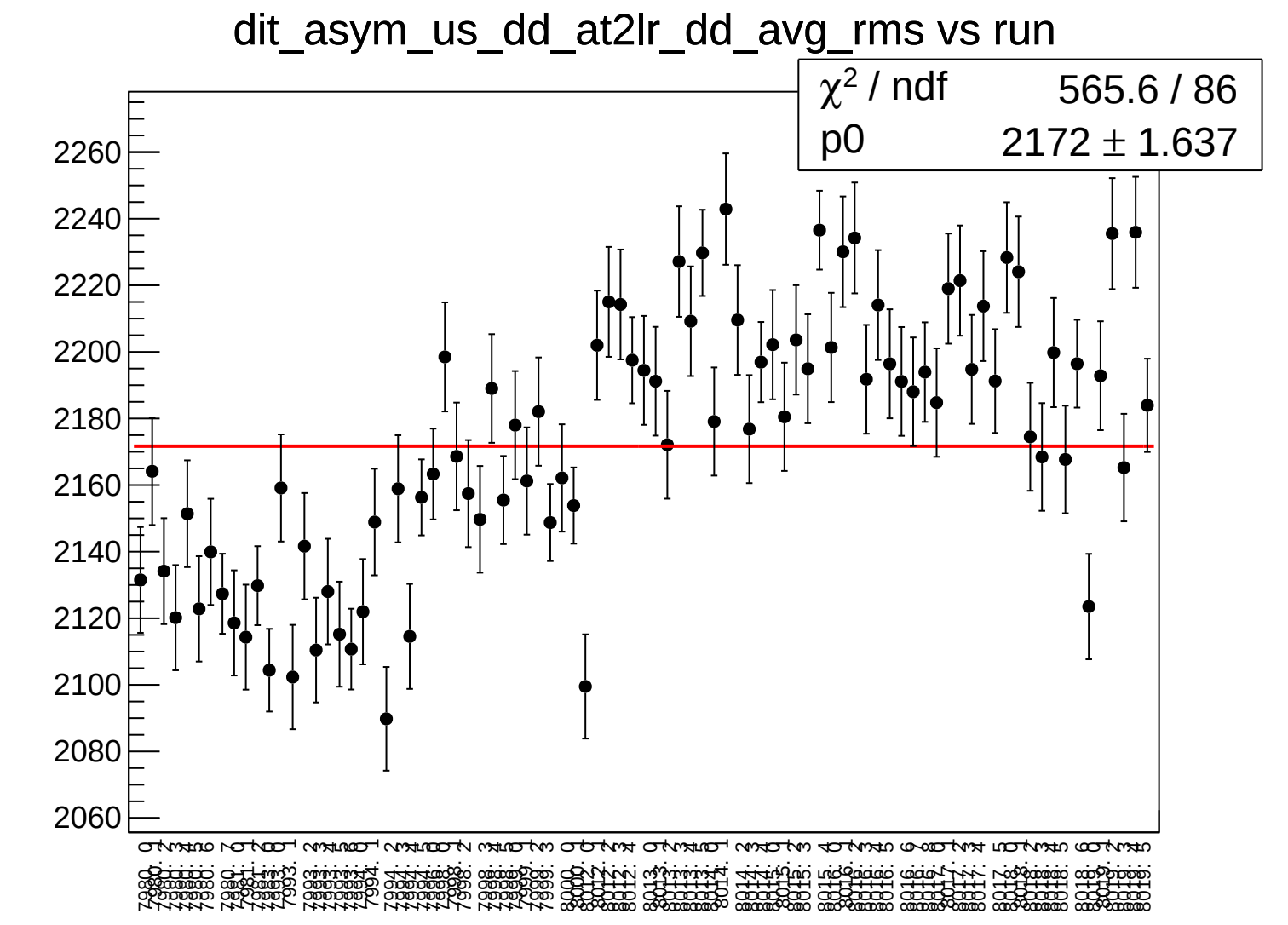

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 111.9 / 86
p0 5040 ± 4185
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 319.1
Std Dev 0
3
2
1
0
−1
−2
−3

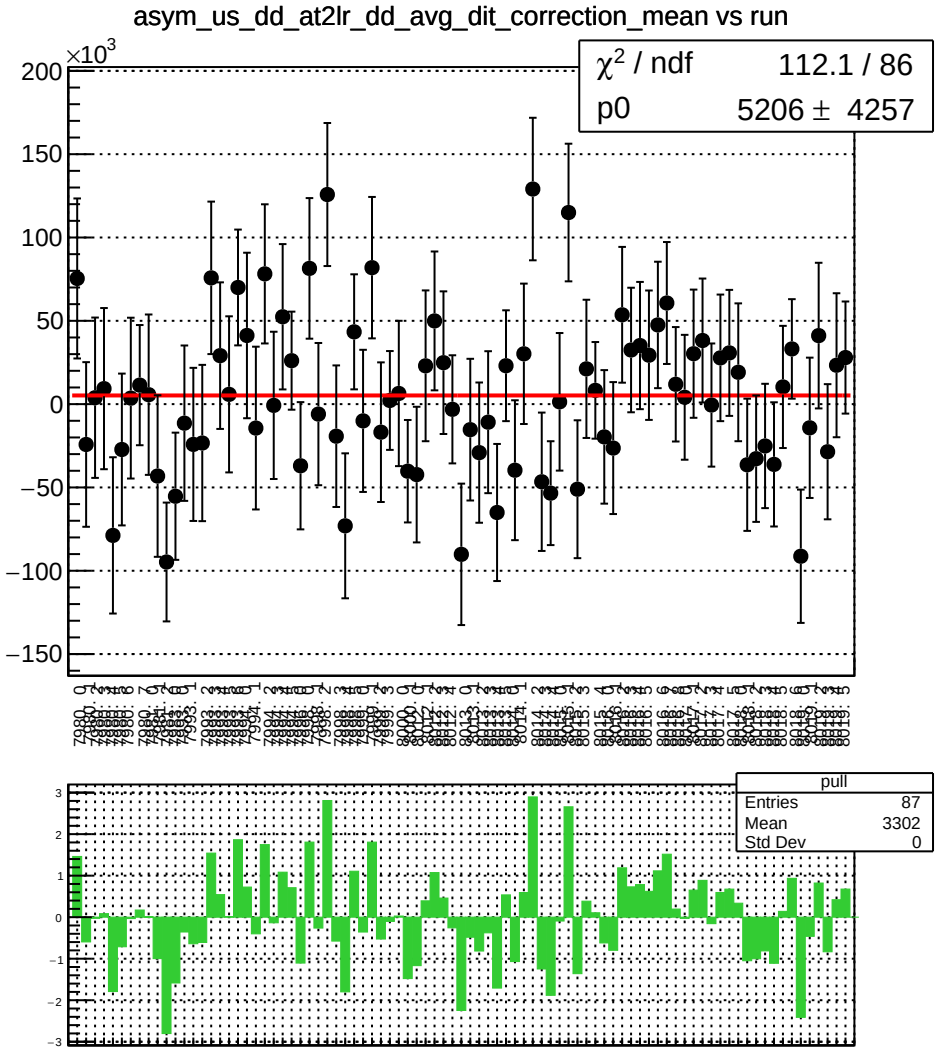

pull1D
Entries 87
Mean 0.003801
Std Dev 1.134
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

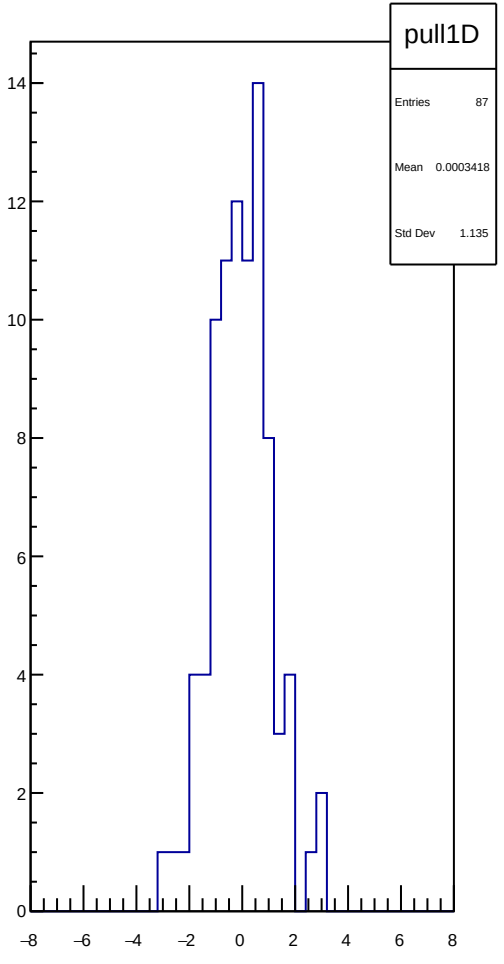

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.114e+04 / 86
p0 3914 ± 2.959
4800
4600
4400
4200
4000
3800
3600
3400

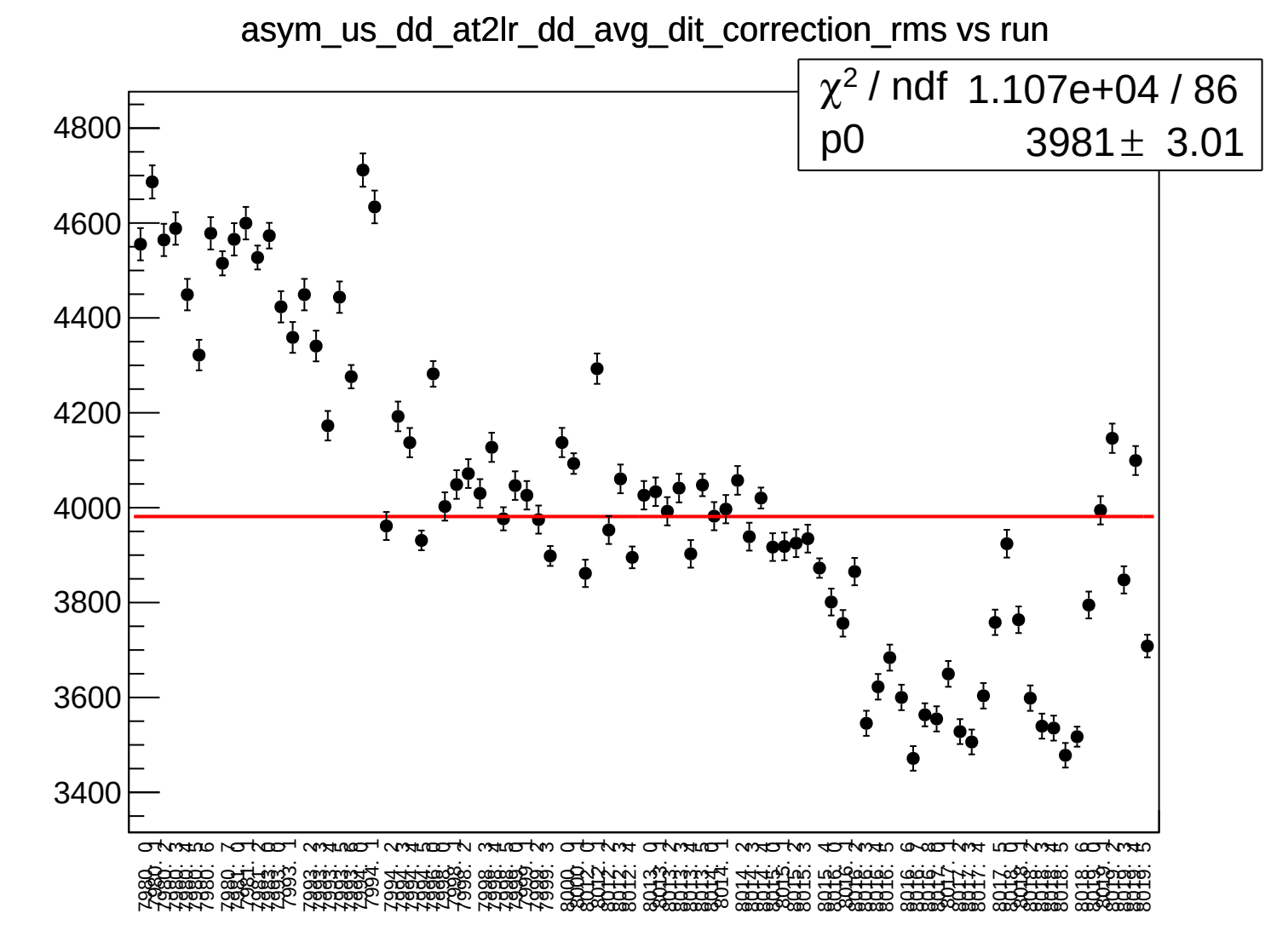

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 85.68 / 86
p0 −2206 ± 2315
×10³
pull
Entries 87
Mean 248.1
Std Dev 0

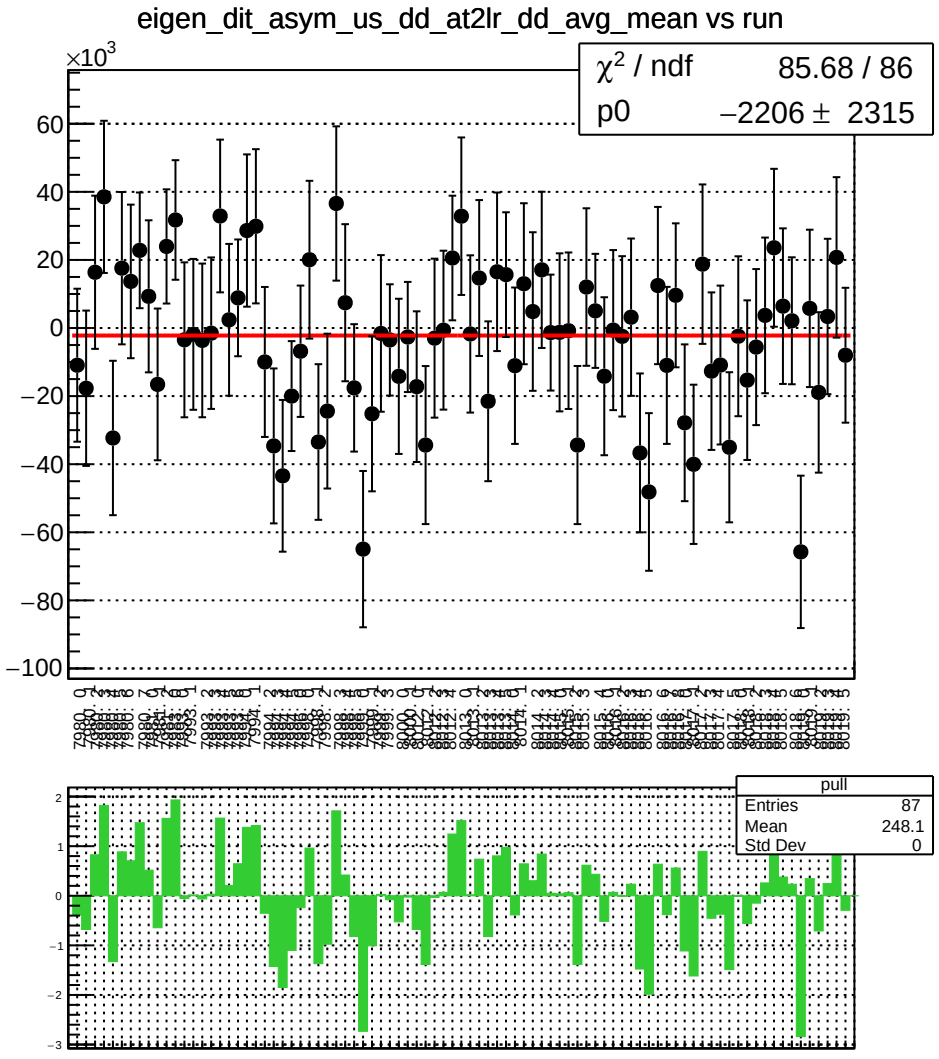

pull1D
Entries 87
Mean −0.0222
Std Dev 0.9921

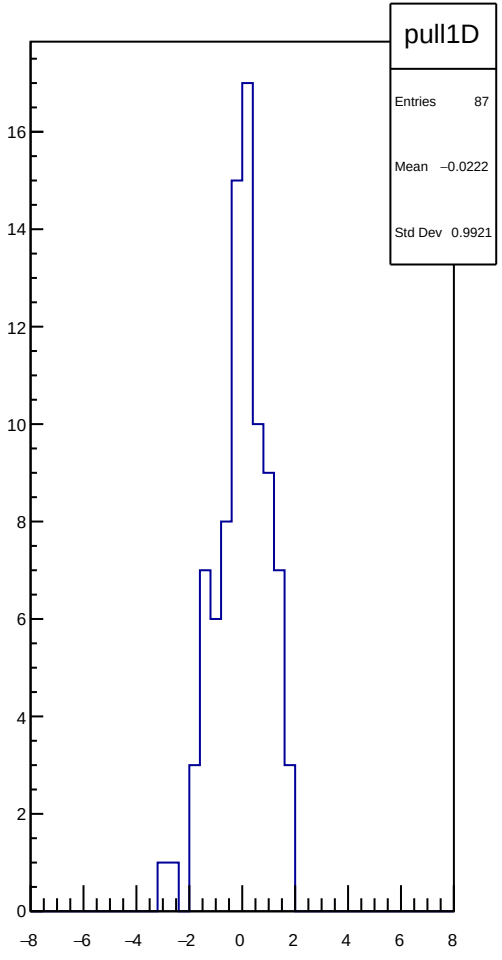

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 565.6 / 86
p0 2172 ± 1.637
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060

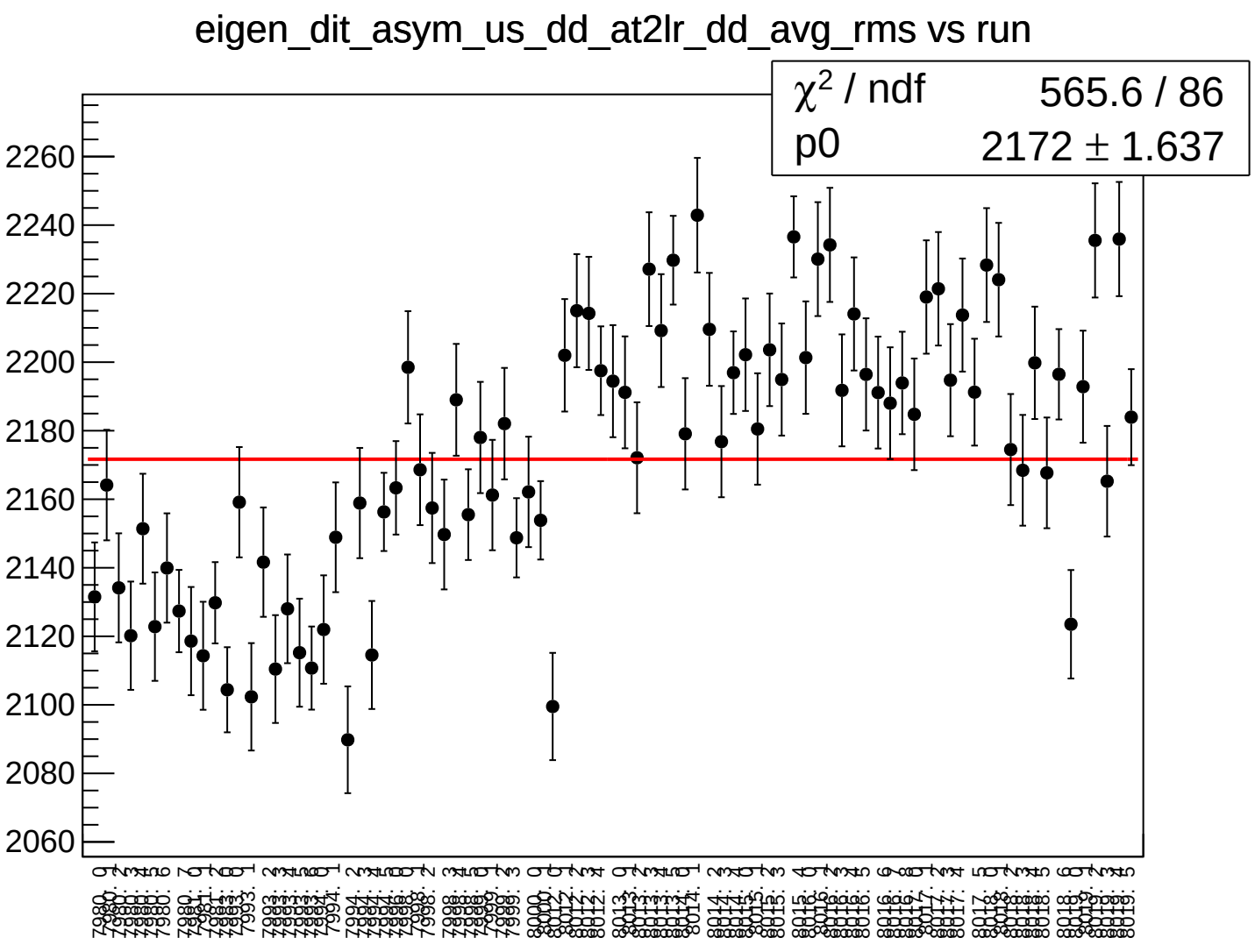

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 112.1 / 86
p0 5206 ± 4257
pull
Entries 87
Mean 3302
Std Dev 0

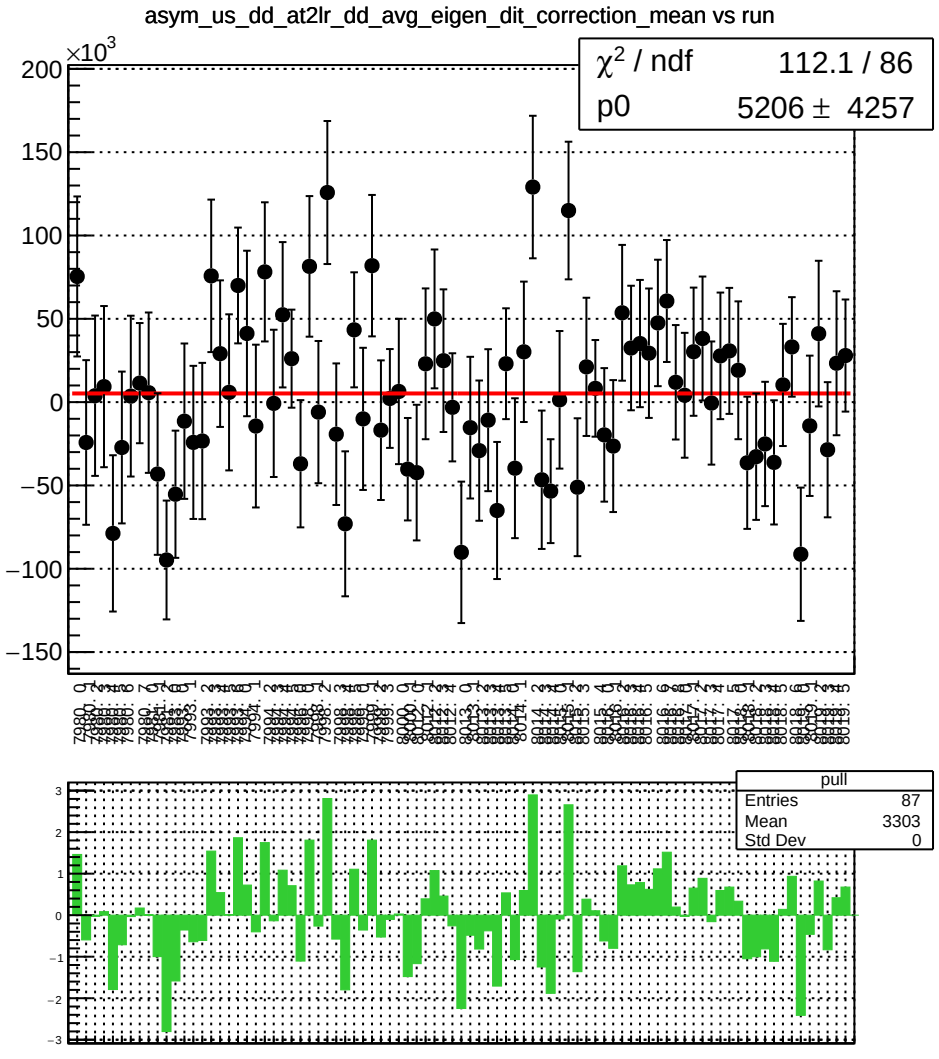

pull1D
Entries 87
Mean 0.0003418
Std Dev 1.135

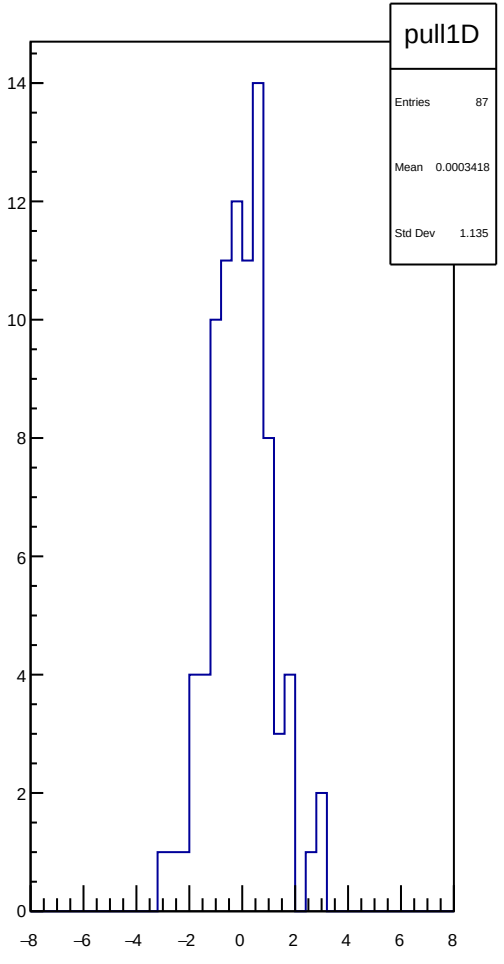

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.107e+04 / 86
p0 3981 ± 3.01
4800
4600
4400
4200
4000
3800
3600
3400

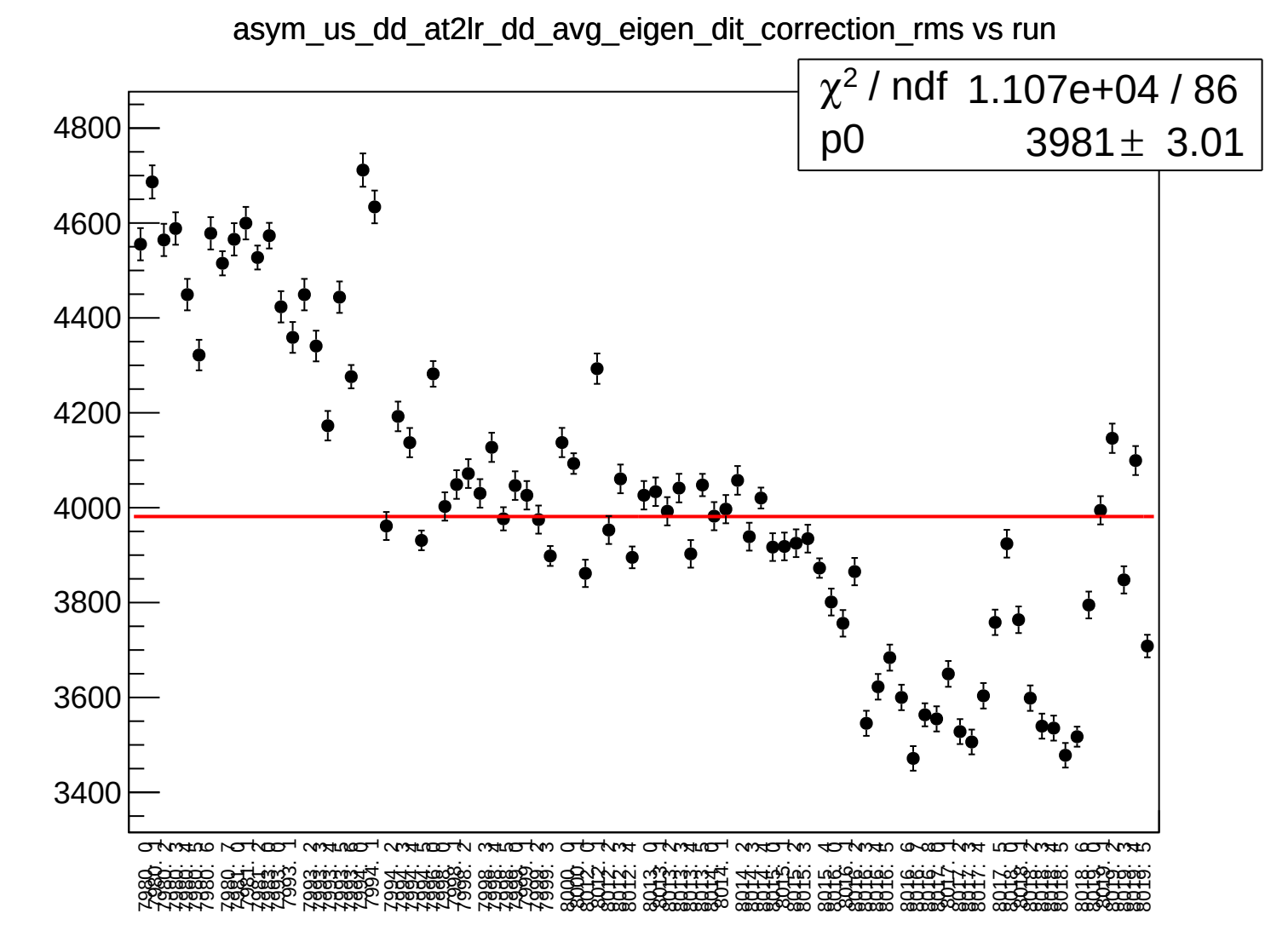

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 85.68 / 86
p0 −2206 ± 2315
pull
Entries 87
Mean 248.1
Std Dev 0

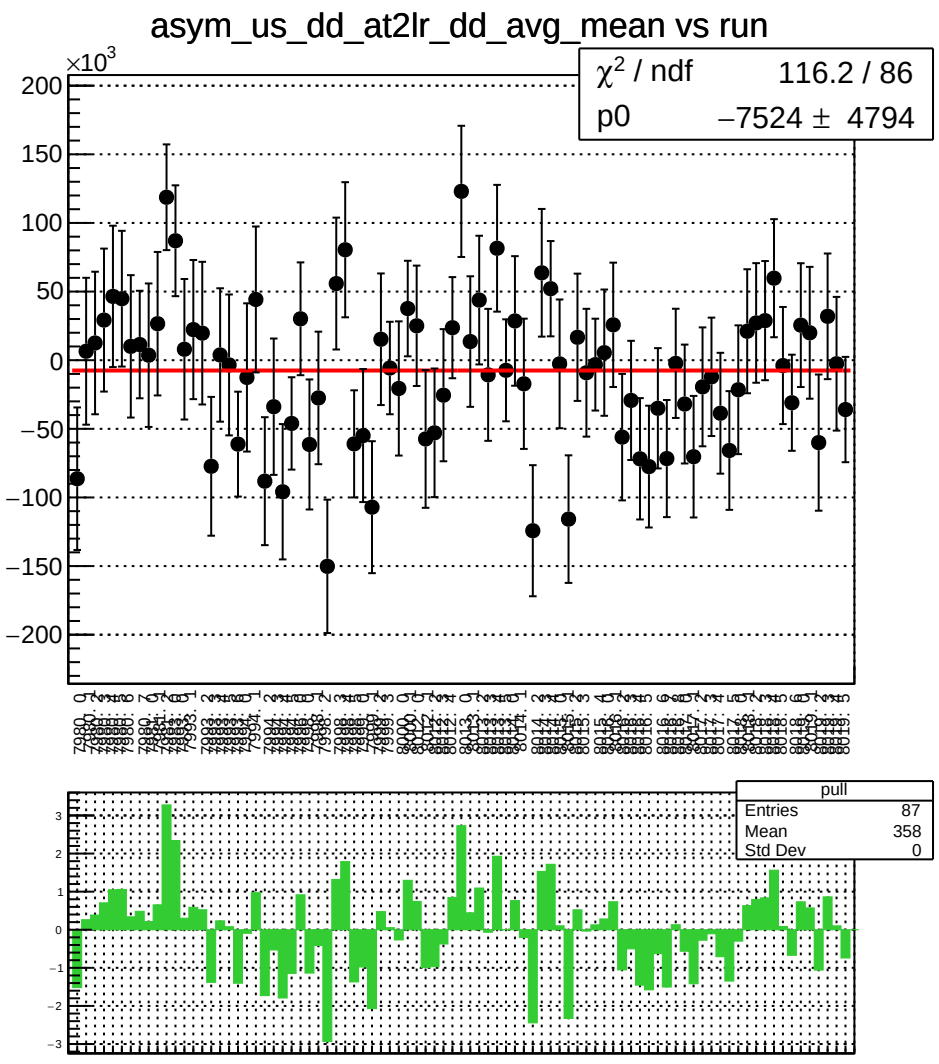

pull1D
Entries 87
Mean −0.0222
Std Dev 0.9921

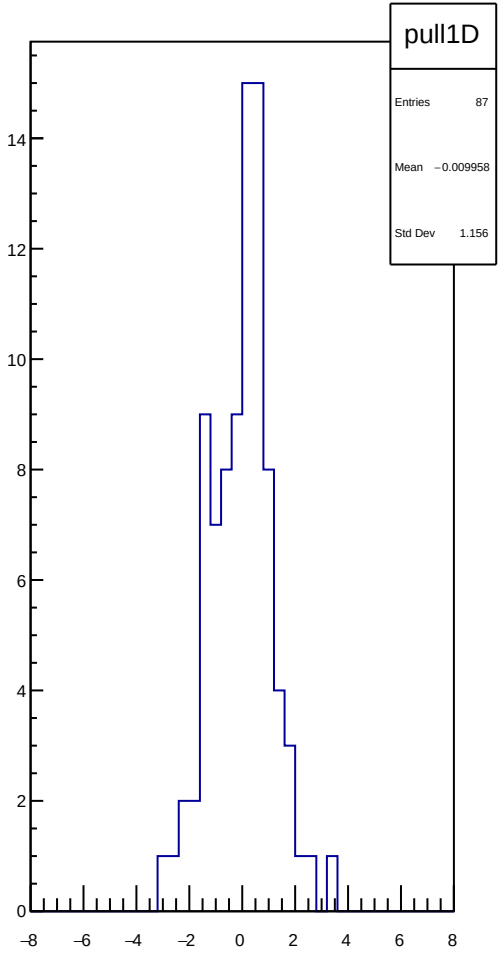

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 565.6 / 86
p0 2172 ± 1.637
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060

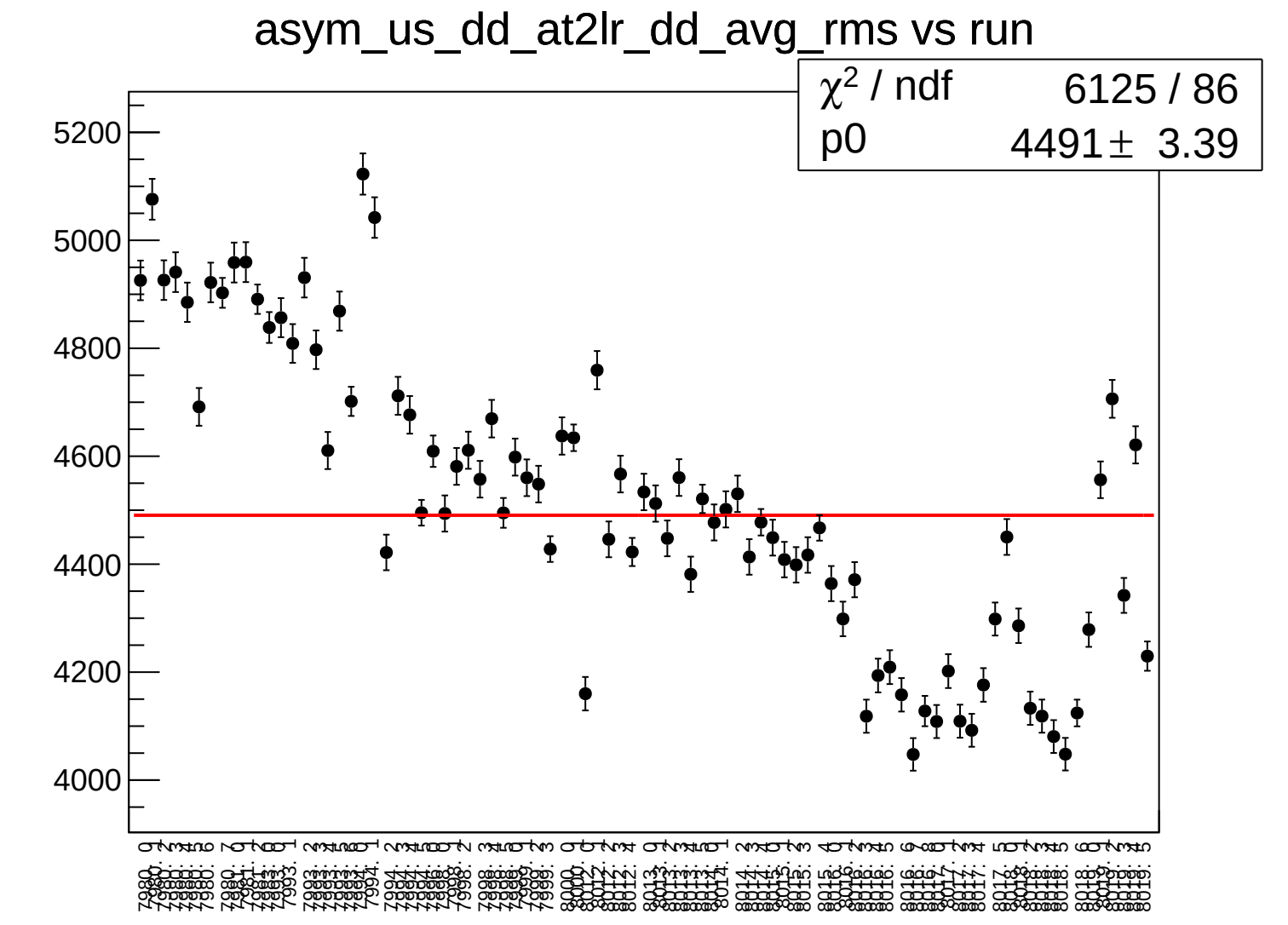

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 112.1 / 86
p0 5206 ± 4257
pull
Entries 87
Mean 3303
Std Dev 0

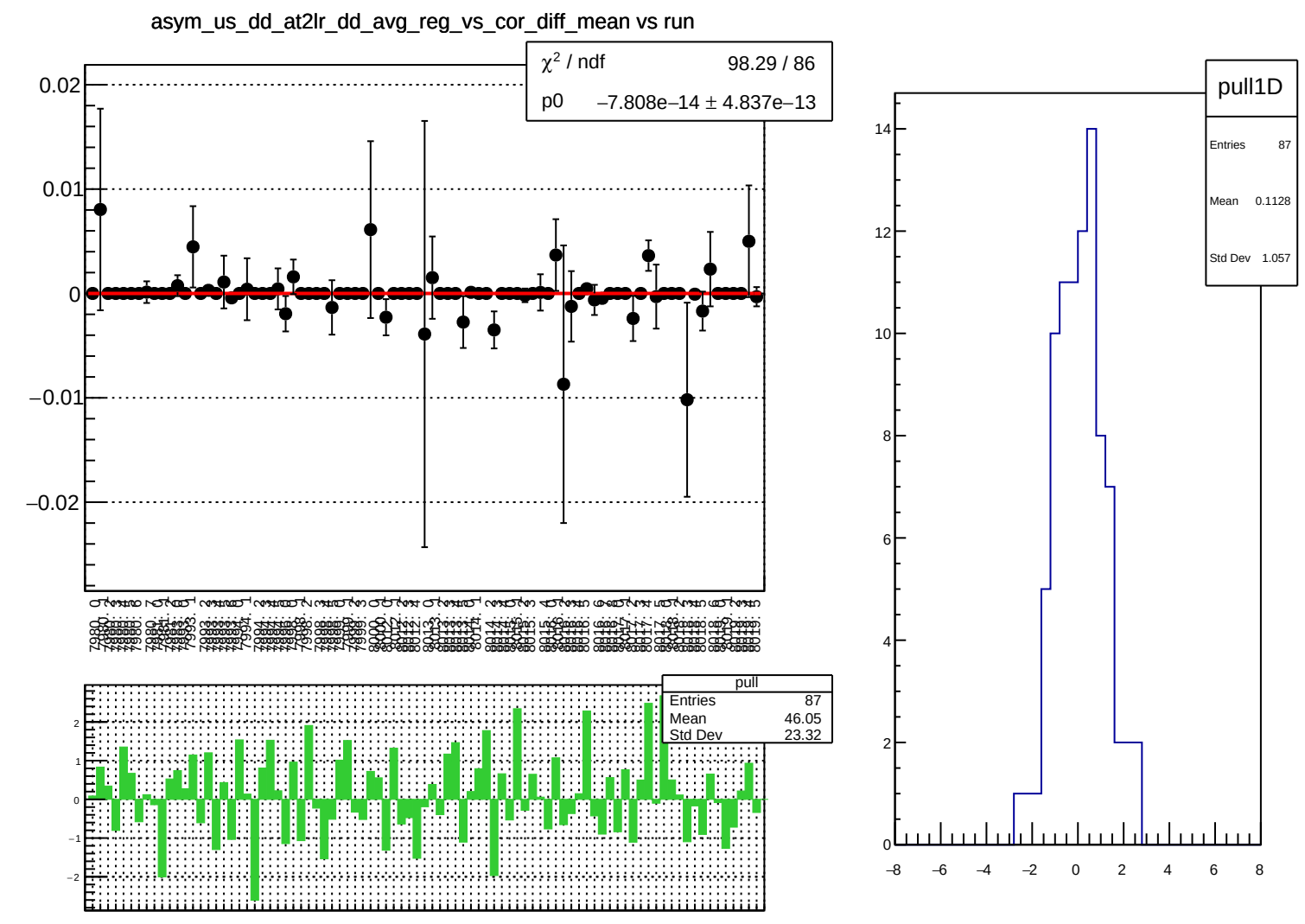

pull1D
Entries 87
Mean 0.0003418
Std Dev 1.135

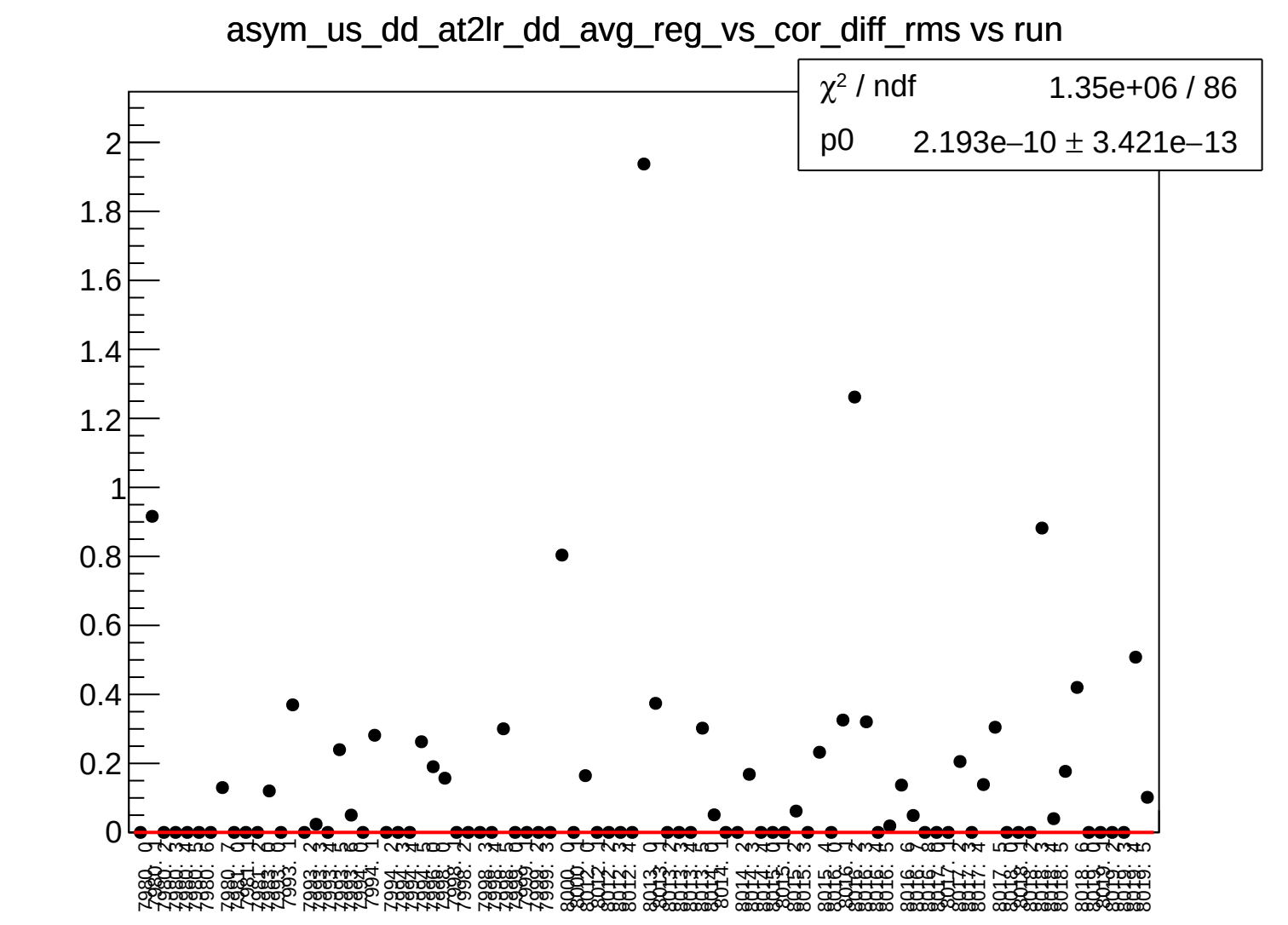

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.107e+04 / 86
p0 3981 ± 3.01
4800
4600
4400
4200
4000
3800
3600
3400

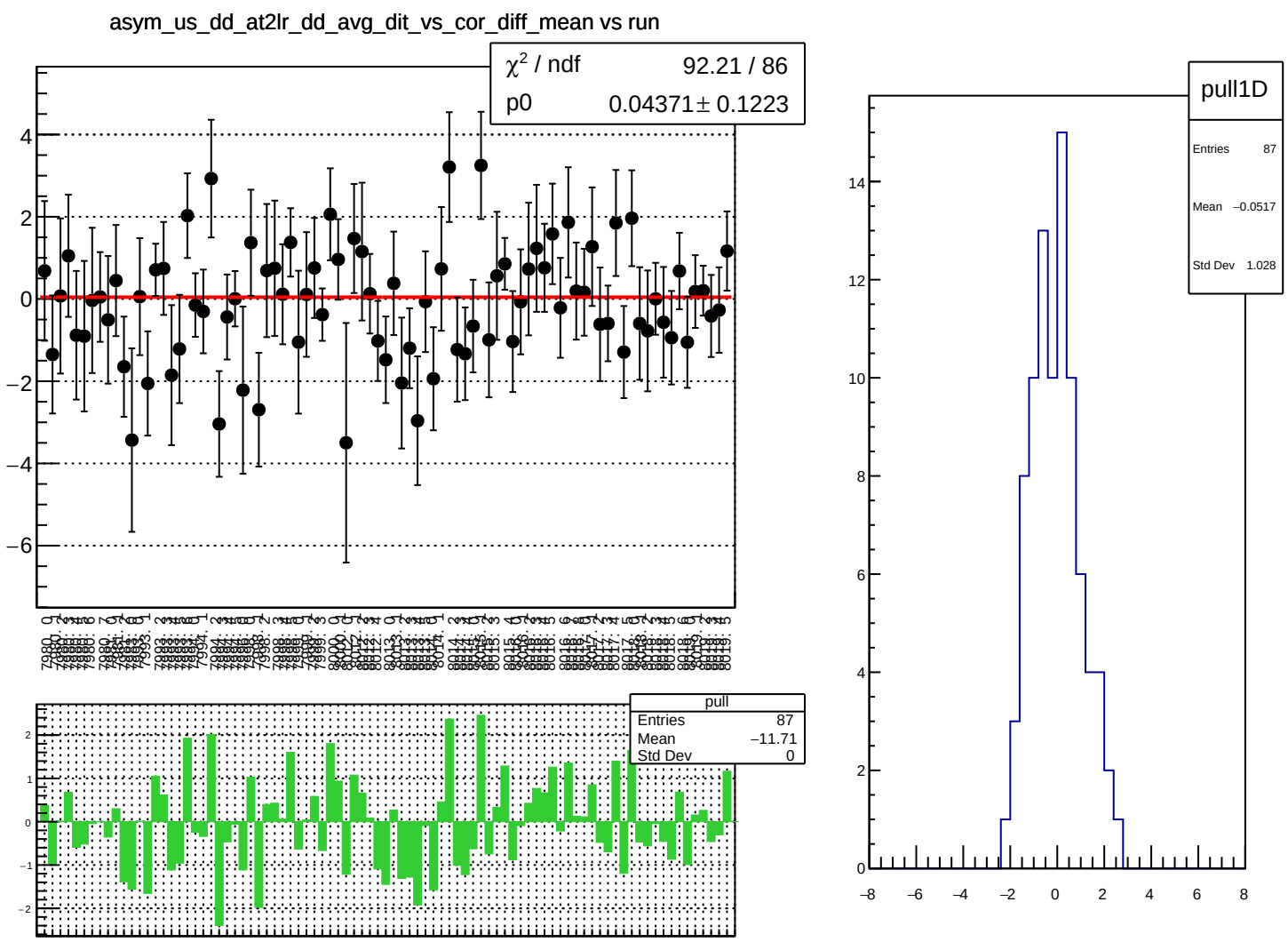

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 116.2 / 86
p0 −7524 ± 4794
pull
Entries 87
Mean 358
Std Dev 0

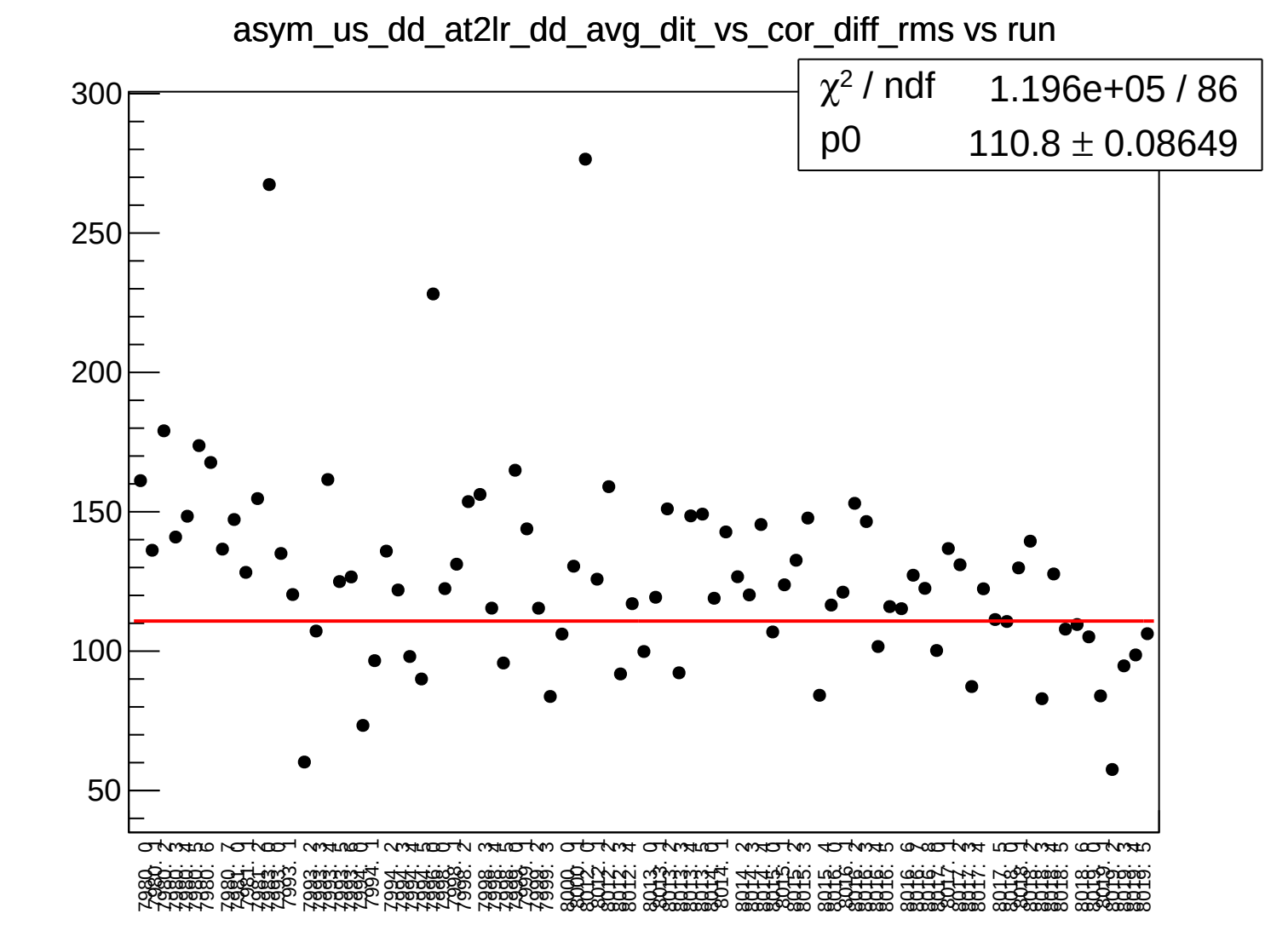

pull1D
Entries 87
Mean −0.009958
Std Dev 1.156

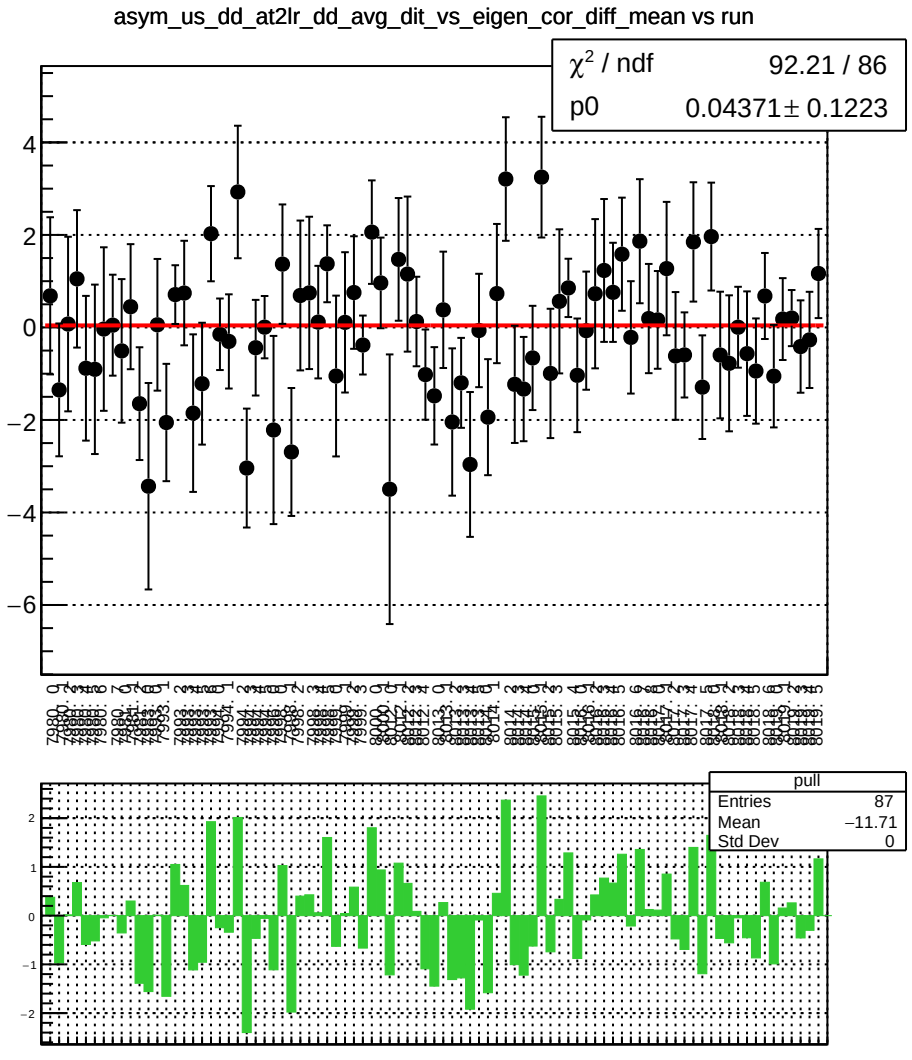

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 6125 / 86
p0 4491 ± 3.39
5200
5000
4800
4600
4400
4200
4000

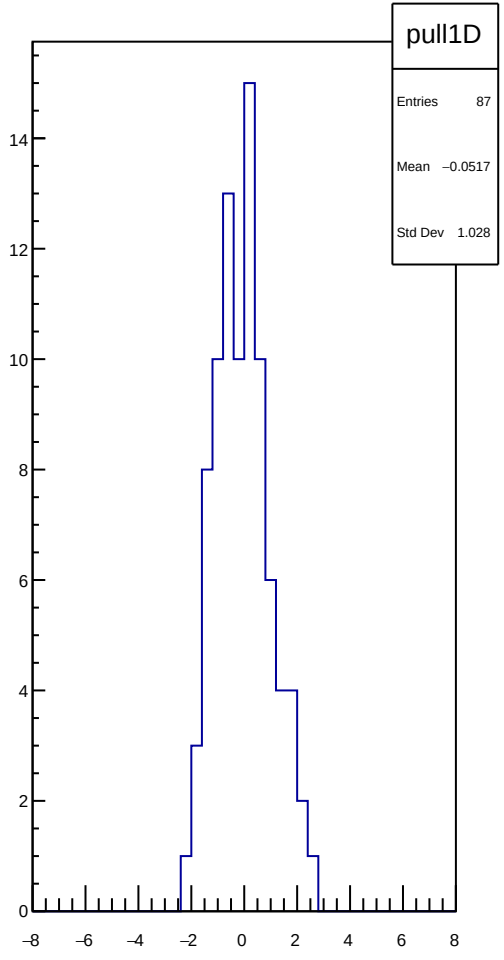

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.29 / 86
p0 −7.808e−14 ± 4.837e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 46.05
Std Dev 23.32
pull1D
Entries 87
Mean 0.1128
Std Dev 1.057

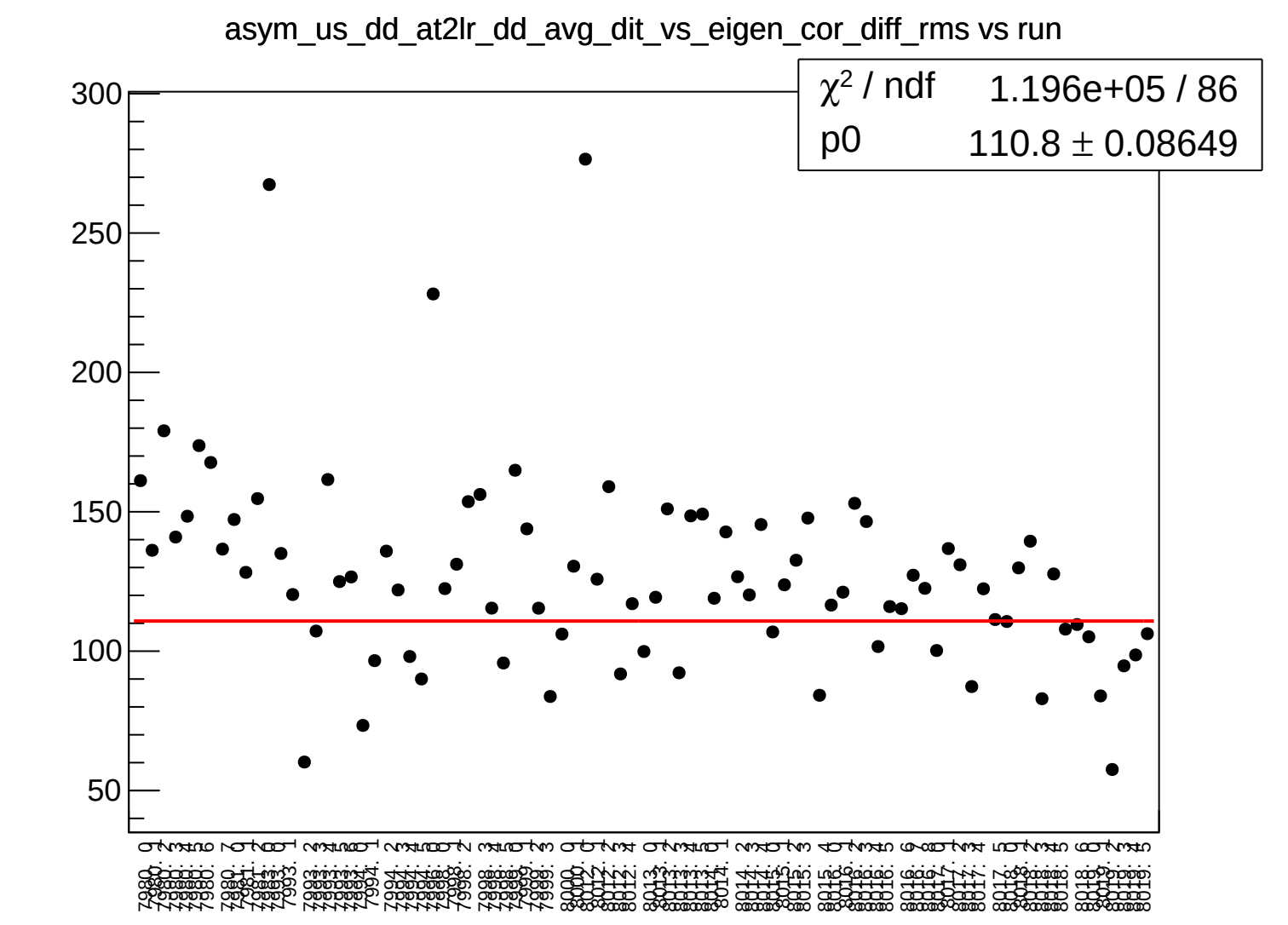

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.35e+06 / 86
p0 2.193e−10 ± 3.421e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

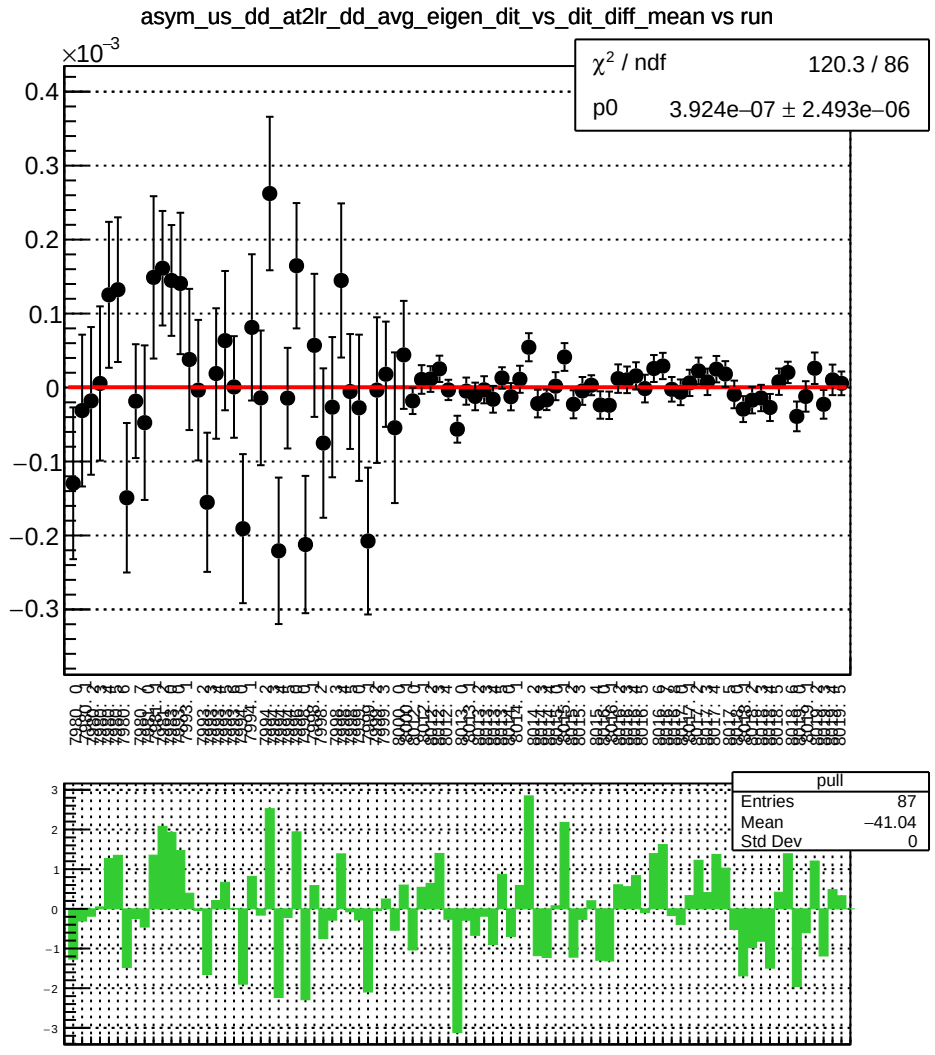

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.21 / 86
p0 0.04371± 0.1223
pull
Entries 87
Mean −11.71
Std Dev 0
pull1D
Entries 87
Mean −0.0517
Std Dev 1.028

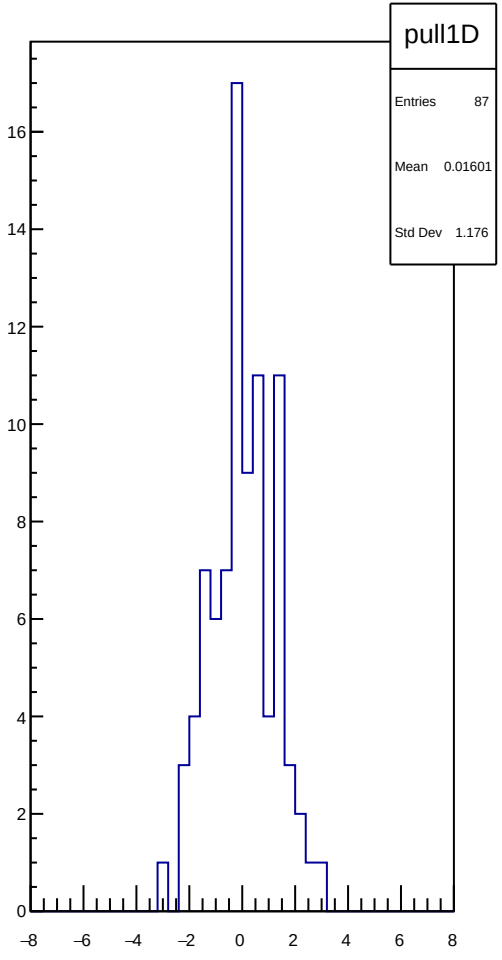

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.196e+05 / 86
p0 110.8 ± 0.08649
300
250
200
150
100
50

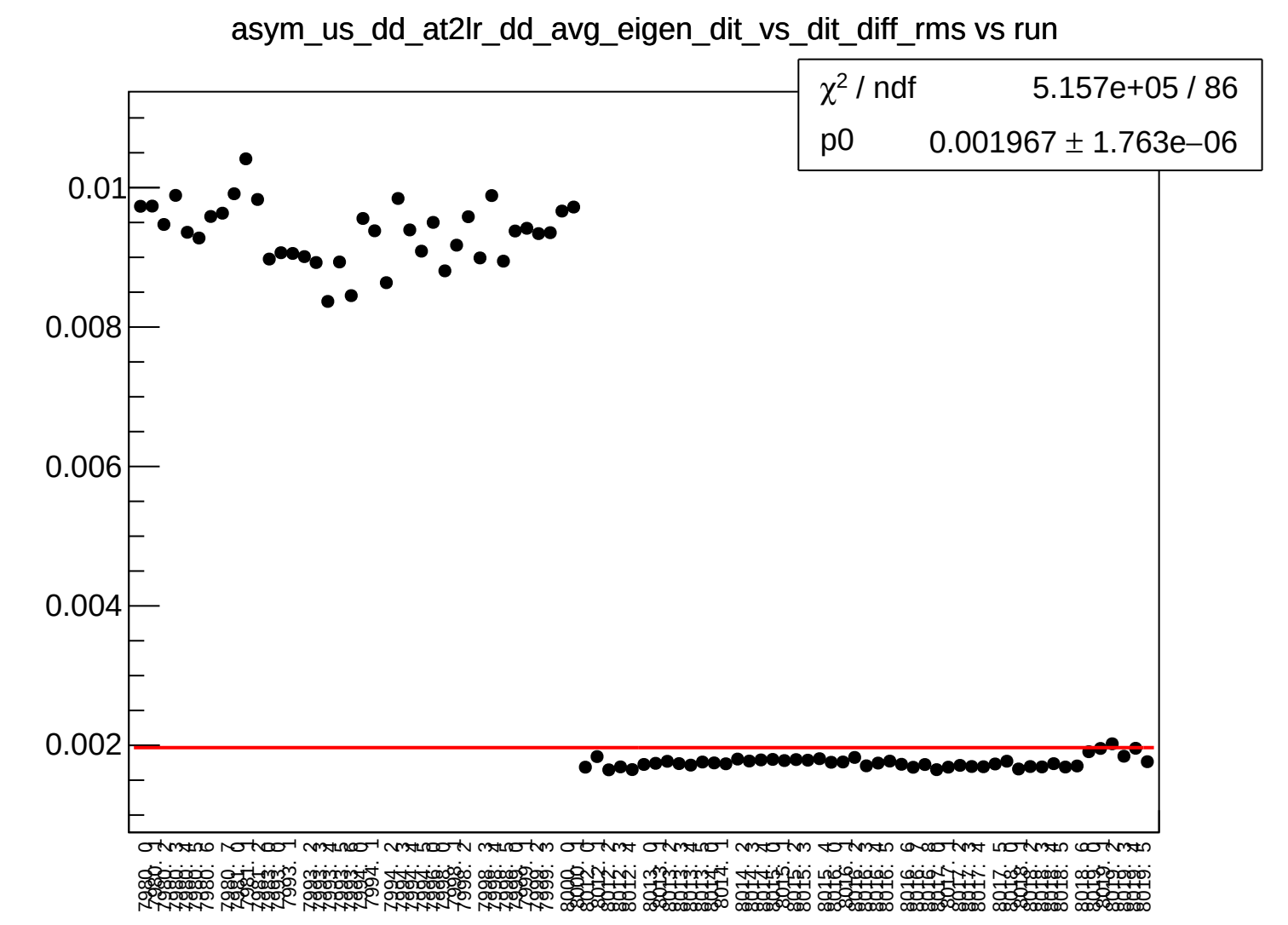

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.21 / 86
p0 0.04371± 0.1223
pull
Entries 87
Mean −11.71
Std Dev 0

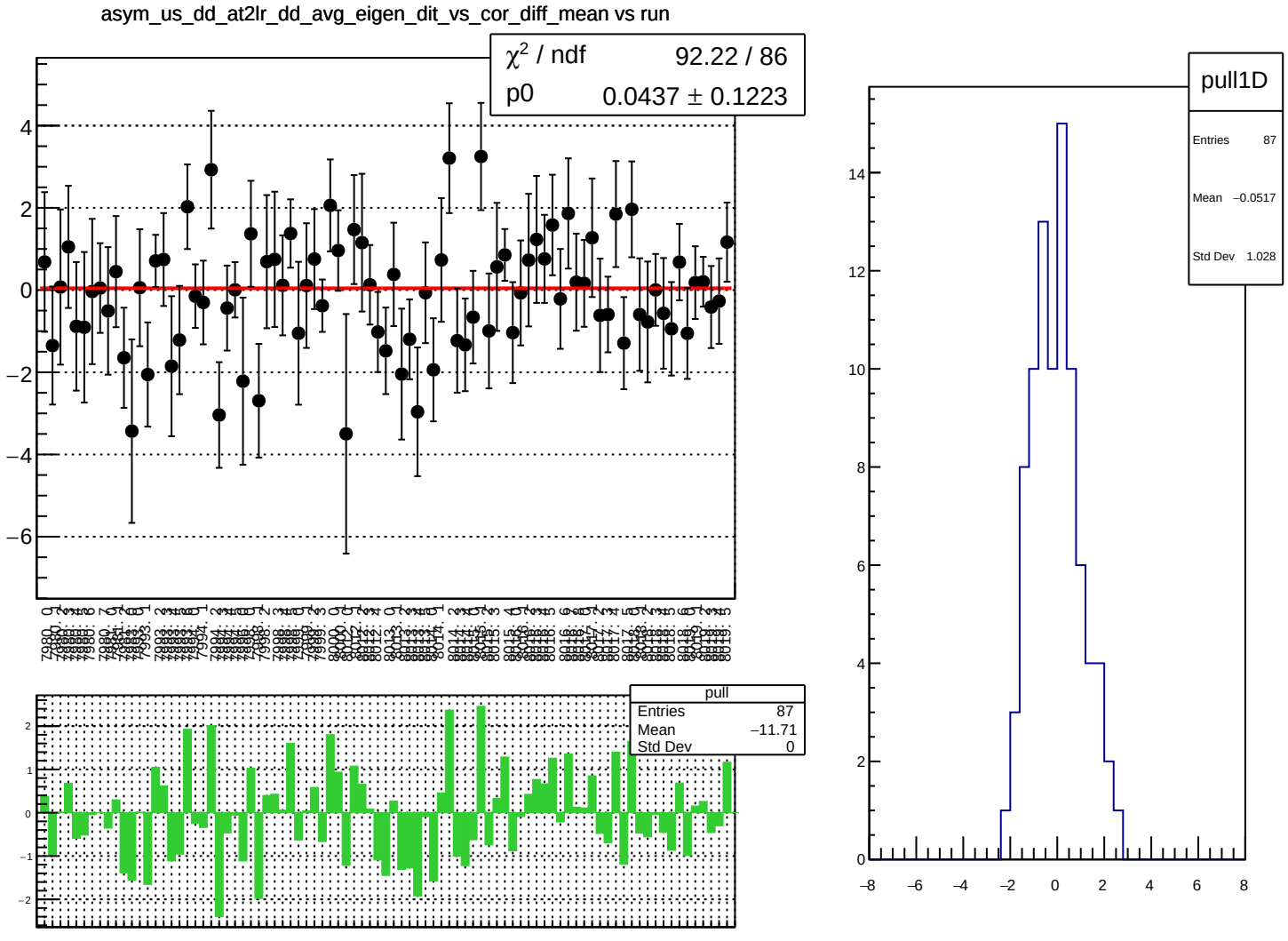

pull1D
Entries 87
Mean −0.0517
Std Dev 1.028

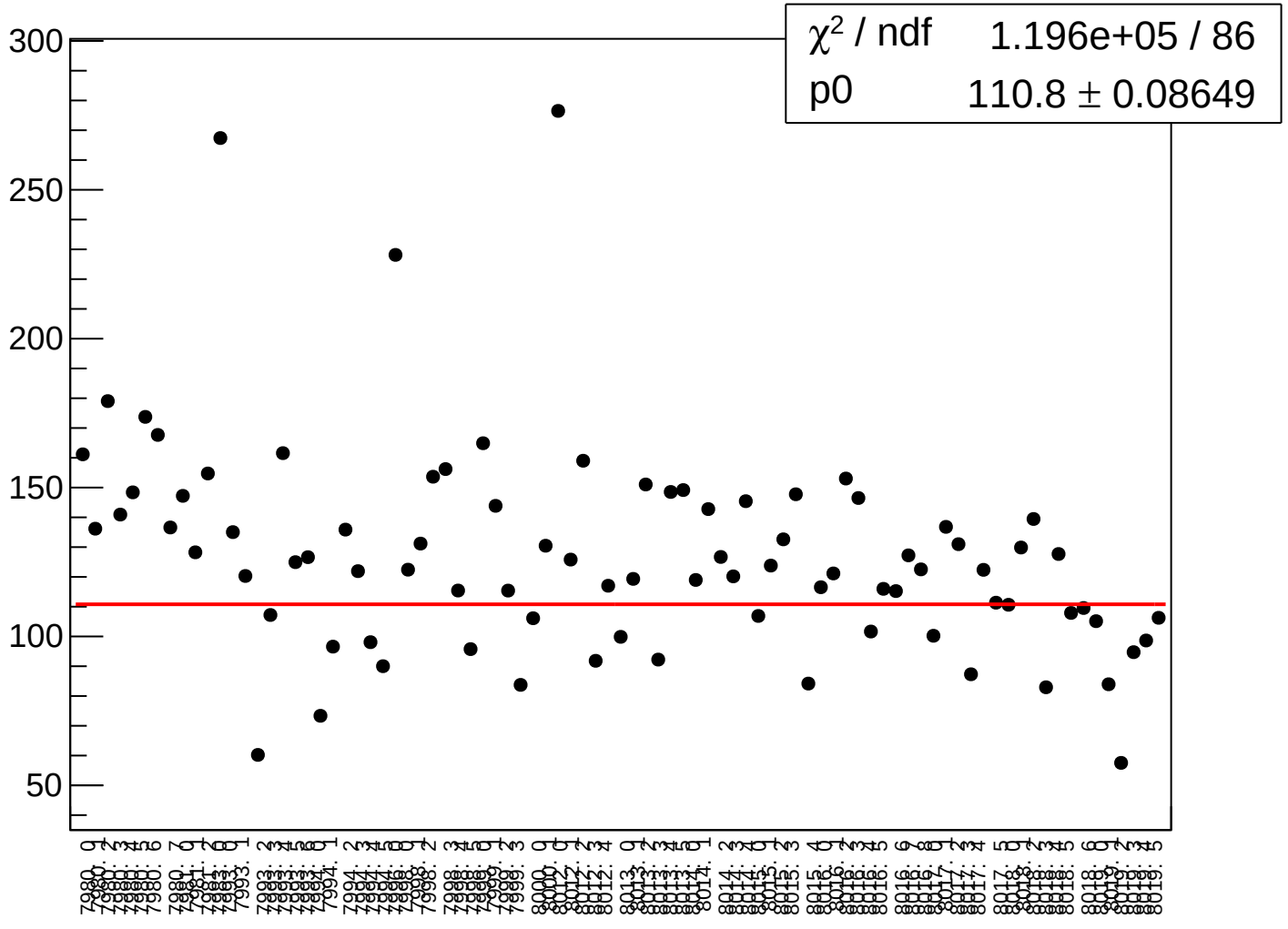

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.196e+05 / 86
p0 110.8 ± 0.08649
300
250
200
150
100
50

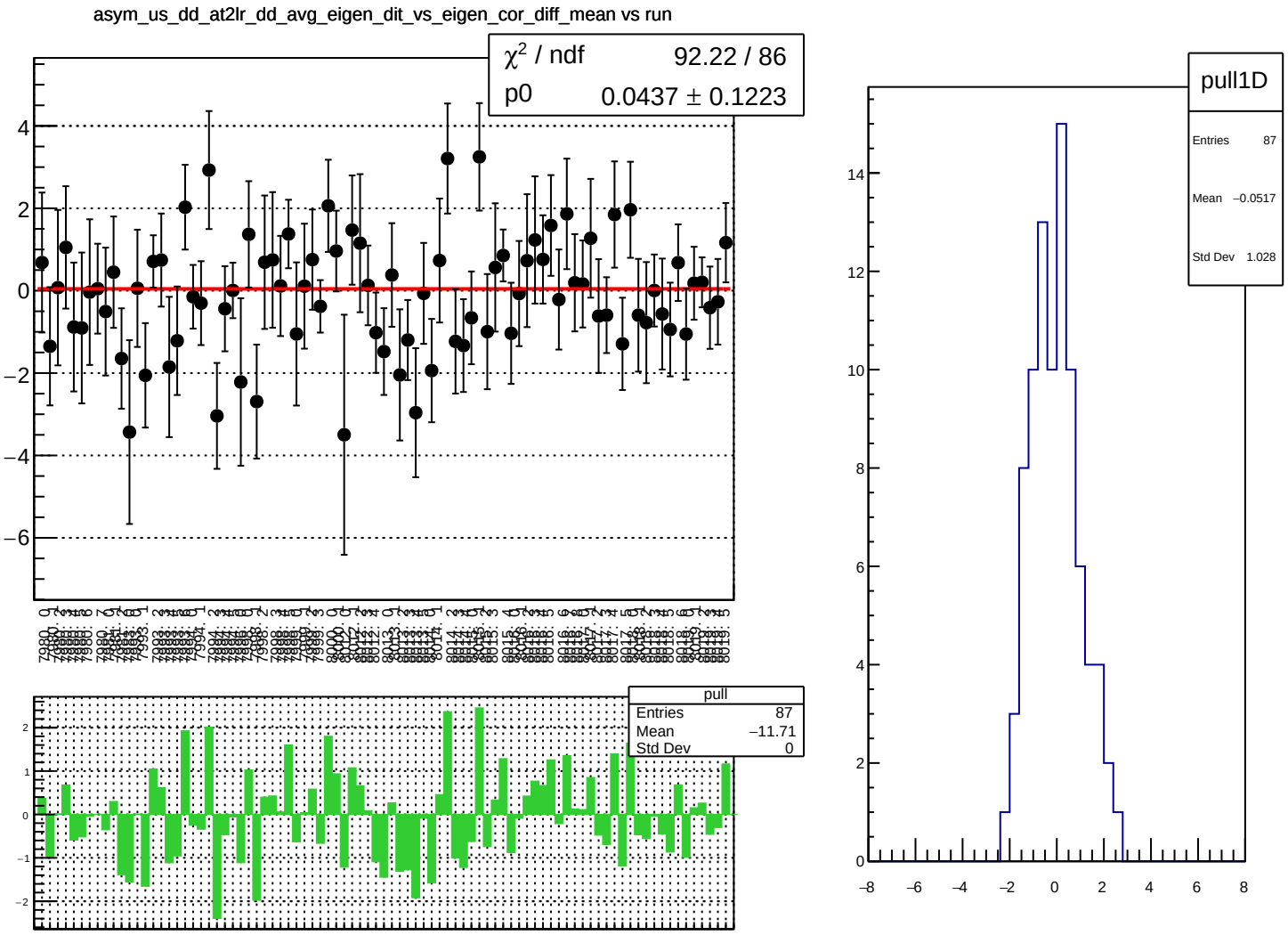

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 120.3 / 86
p0 3.924e−07 ± 2.493e−06
pull
Entries 87
Mean −41.04
Std Dev 0

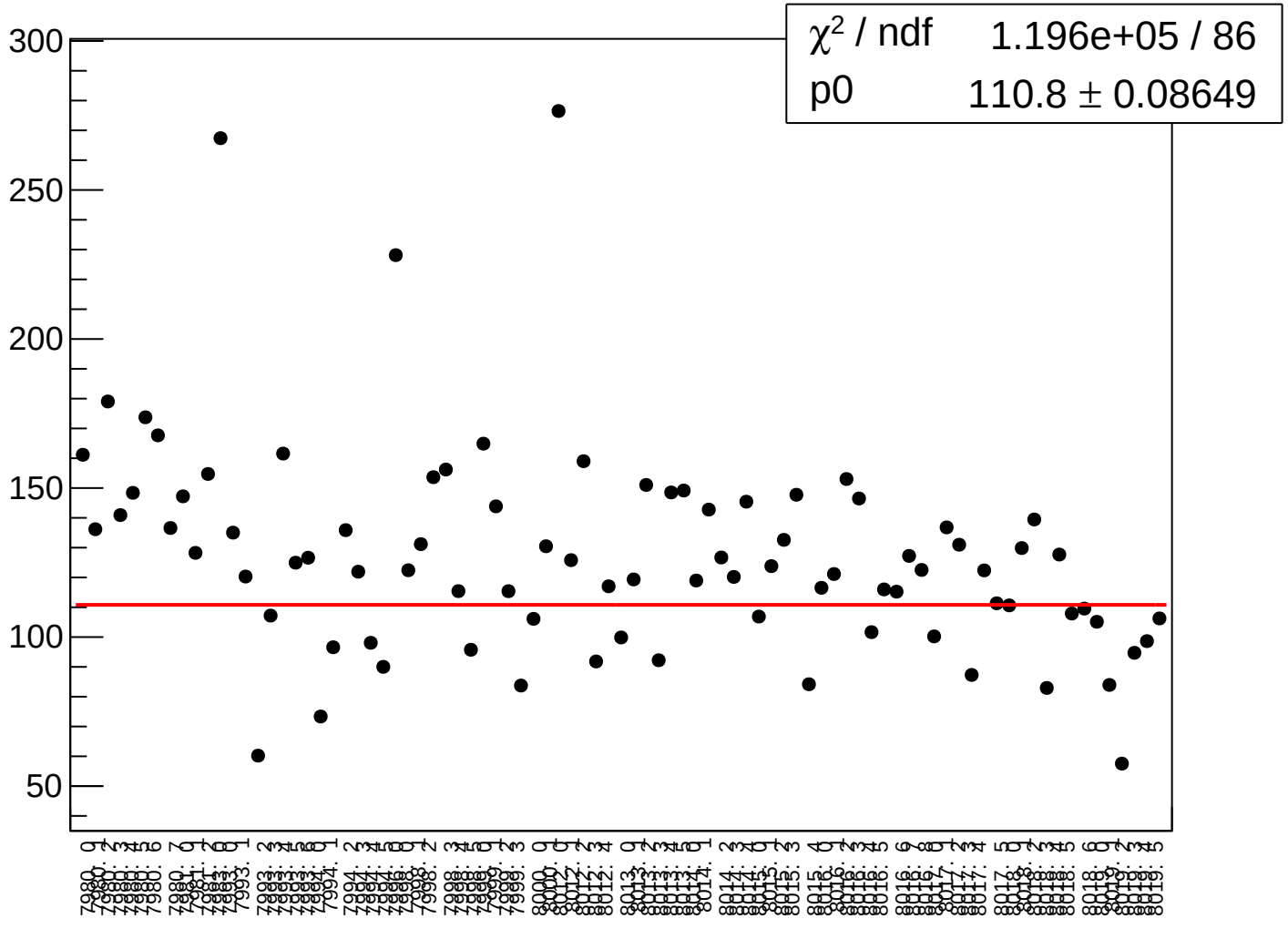

pull1D
Entries 87
Mean 0.01601
Std Dev 1.176

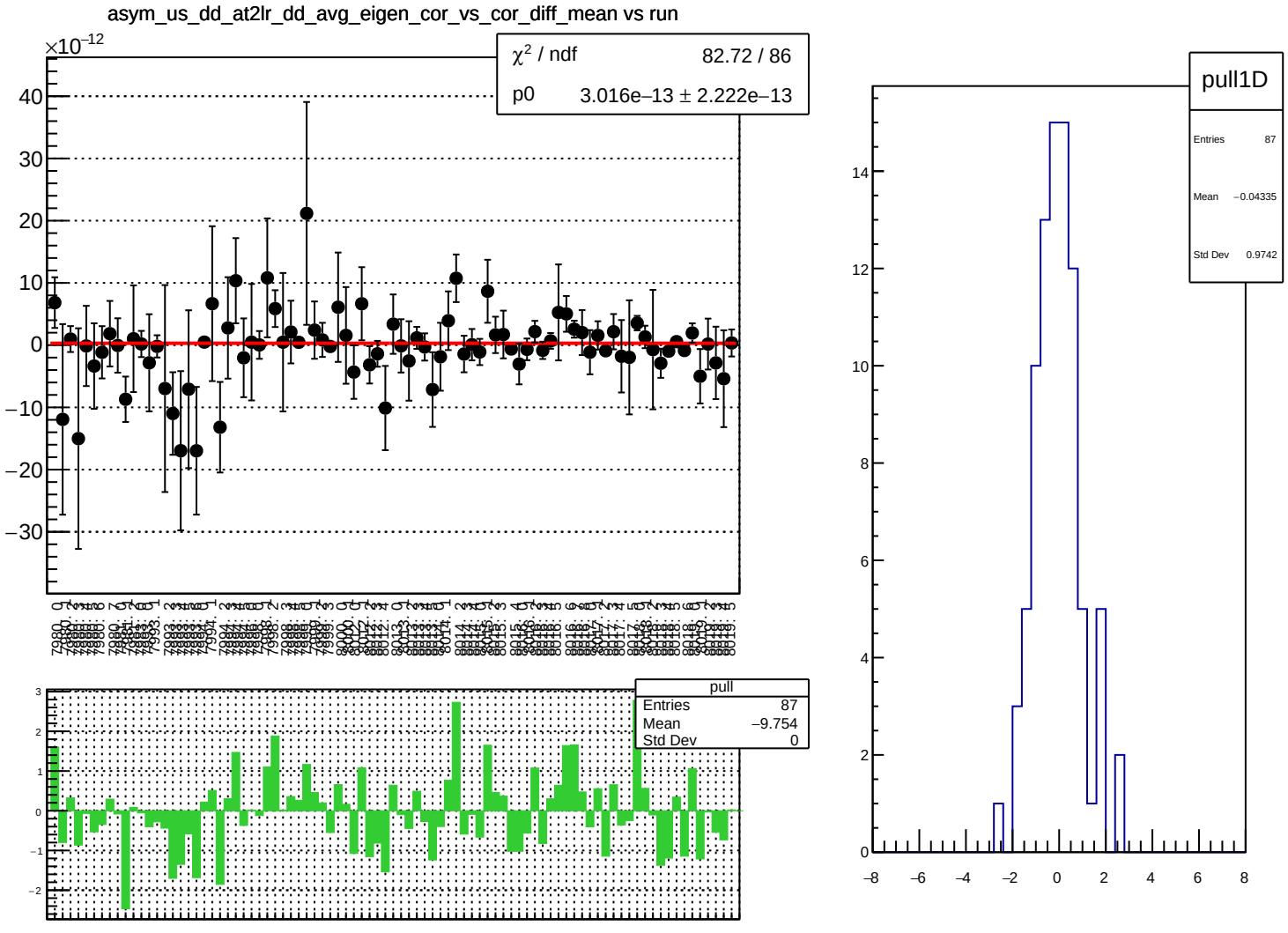

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.157e+05 / 86
p0 0.001967 ± 1.763e−06
0.01
0.008
0.006
0.004
0.002

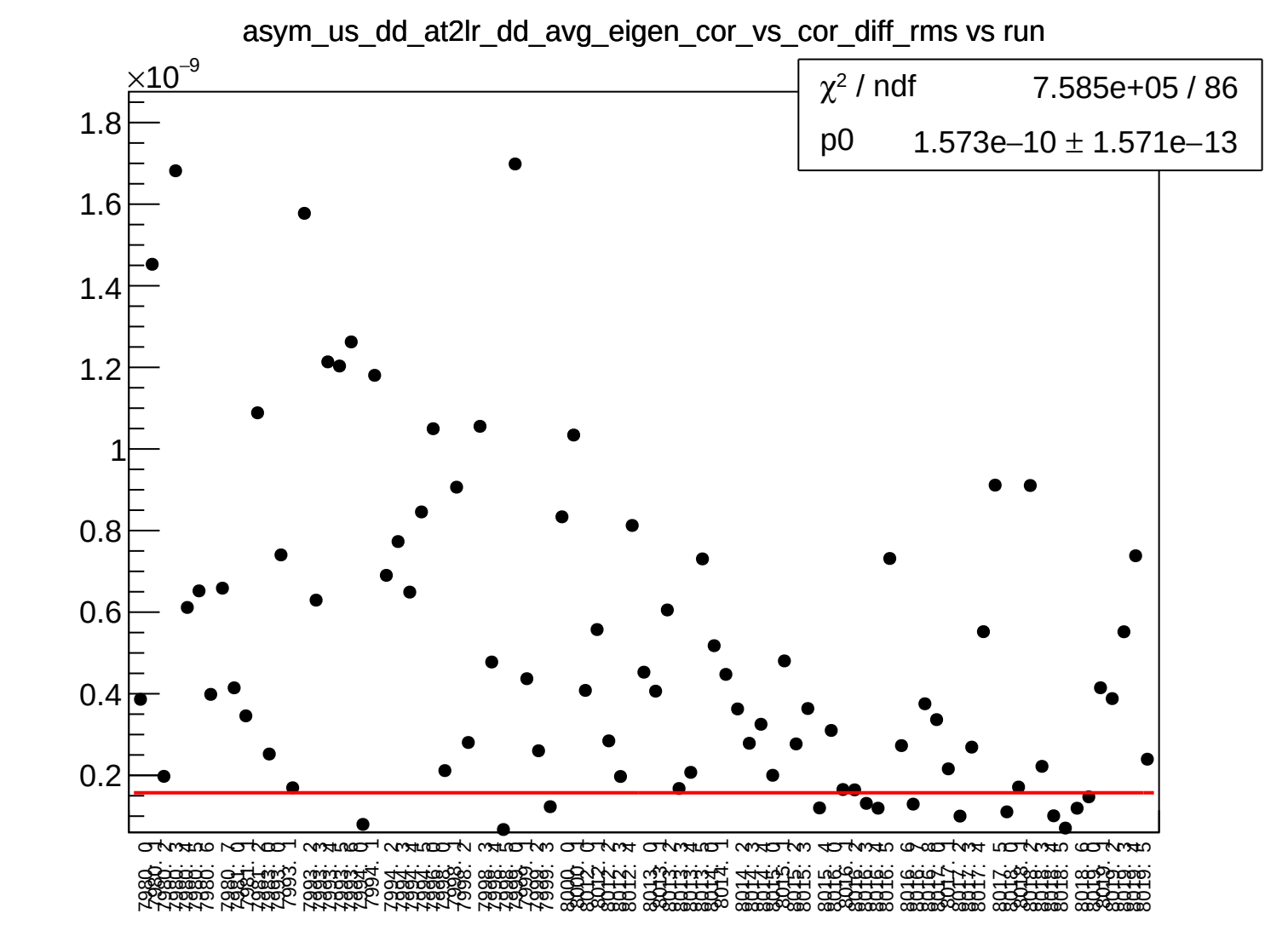

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.22 / 86
p0 0.0437 ± 0.1223
pull
Entries 87
Mean −11.71
Std Dev 0
pull1D
Entries 87
Mean −0.0517
Std Dev 1.028

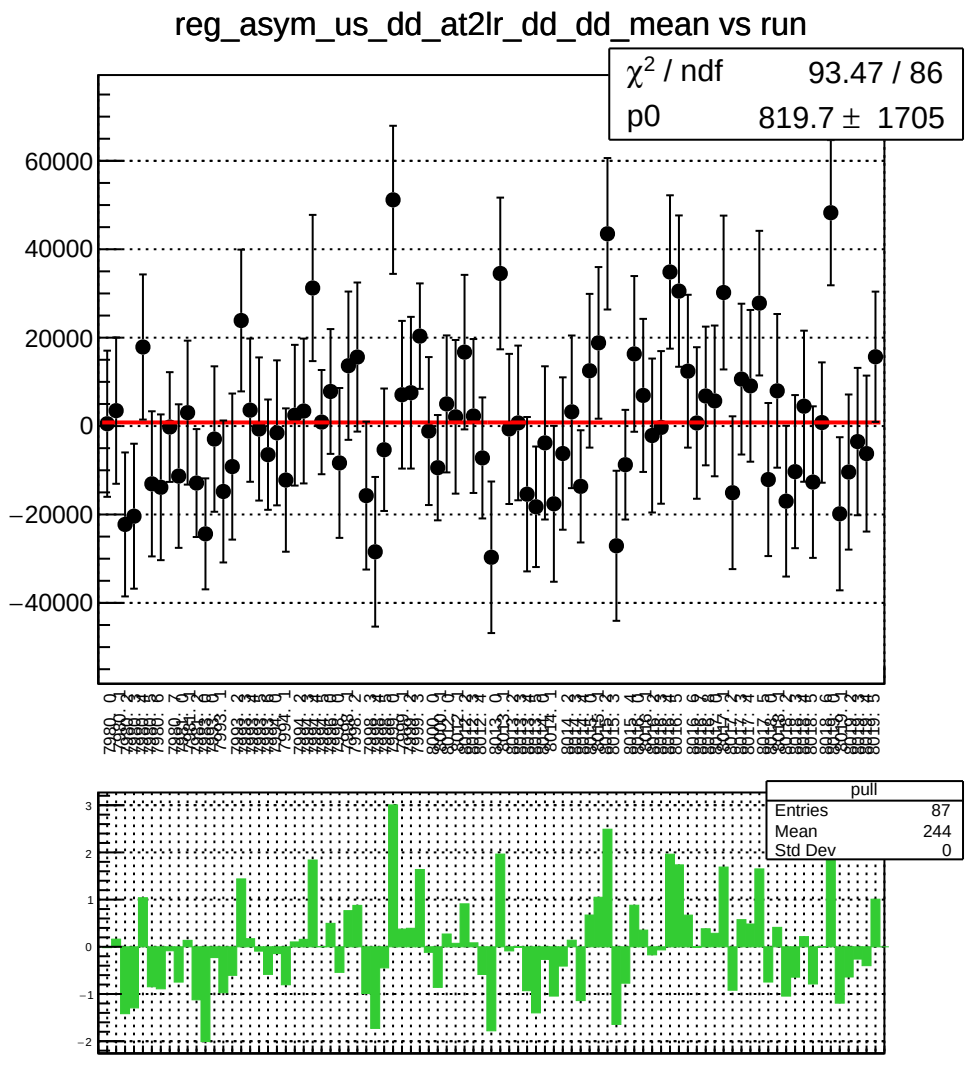

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.196e+05 / 86
p0 110.8 ± 0.08649
300
250
200
150
100
50

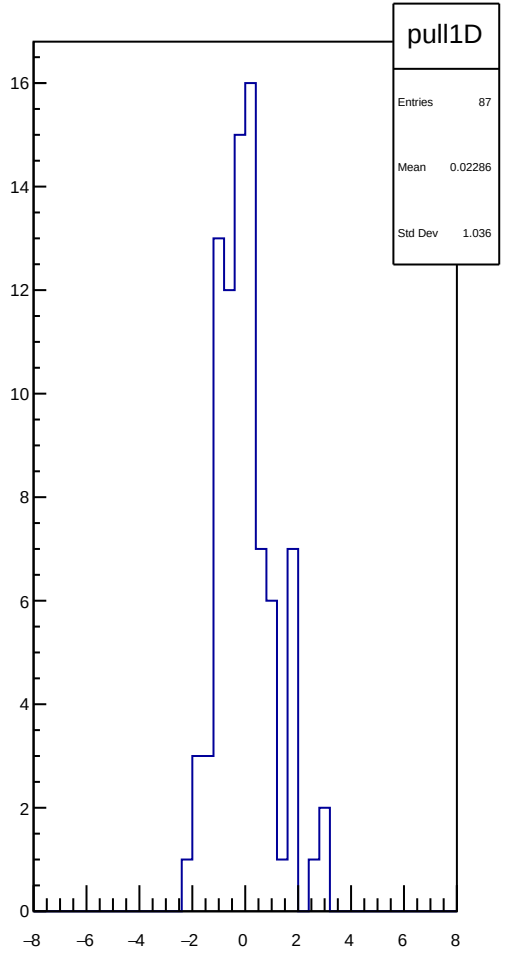

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.22 / 86
p0 0.0437 ± 0.1223
pull
Entries 87
Mean −11.71
Std Dev 0
pull1D
Entries 87
Mean −0.0517
Std Dev 1.028

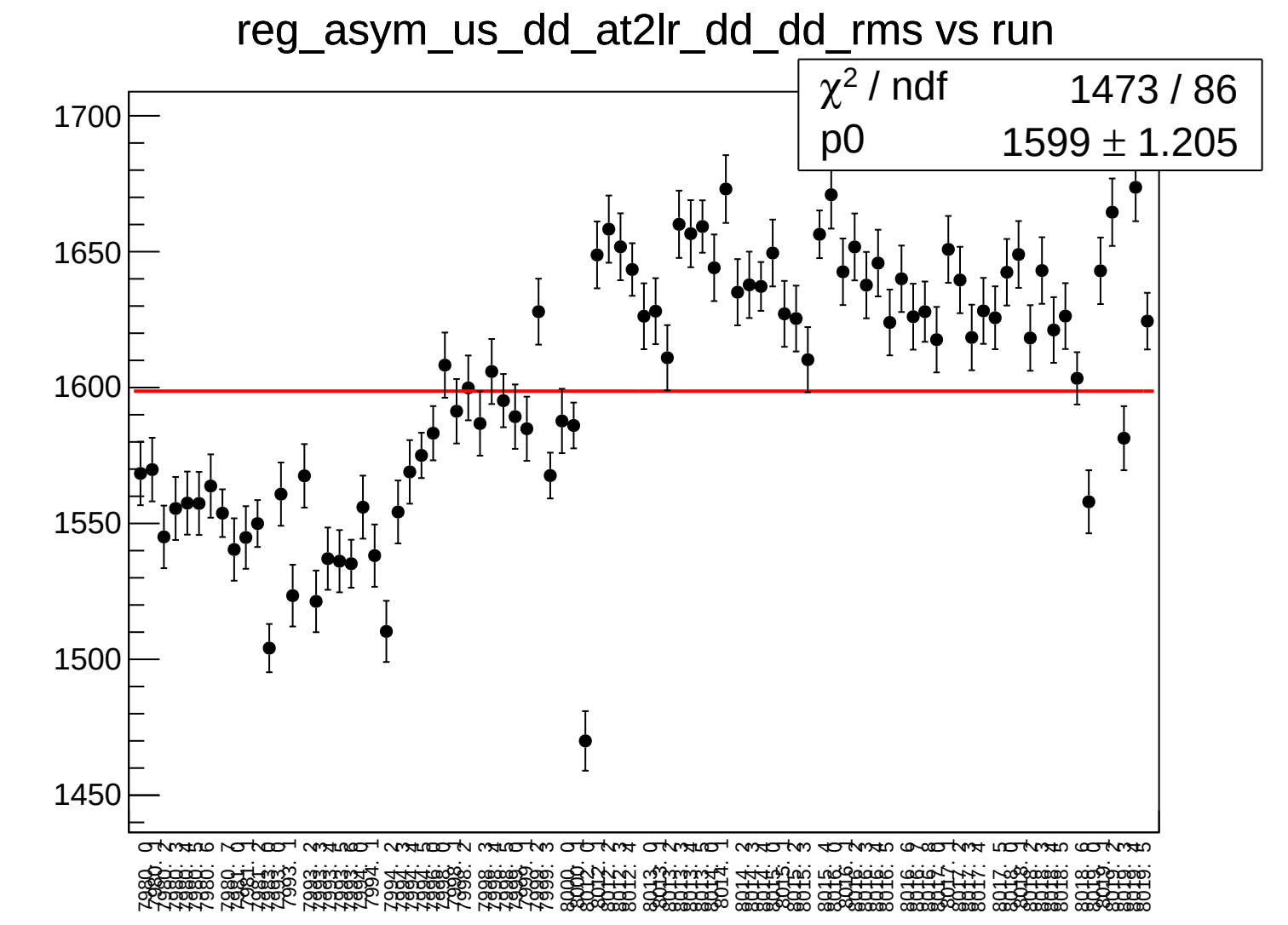

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.196e+05 / 86
p0 110.8 ± 0.08649
300
250
200
150
100
50

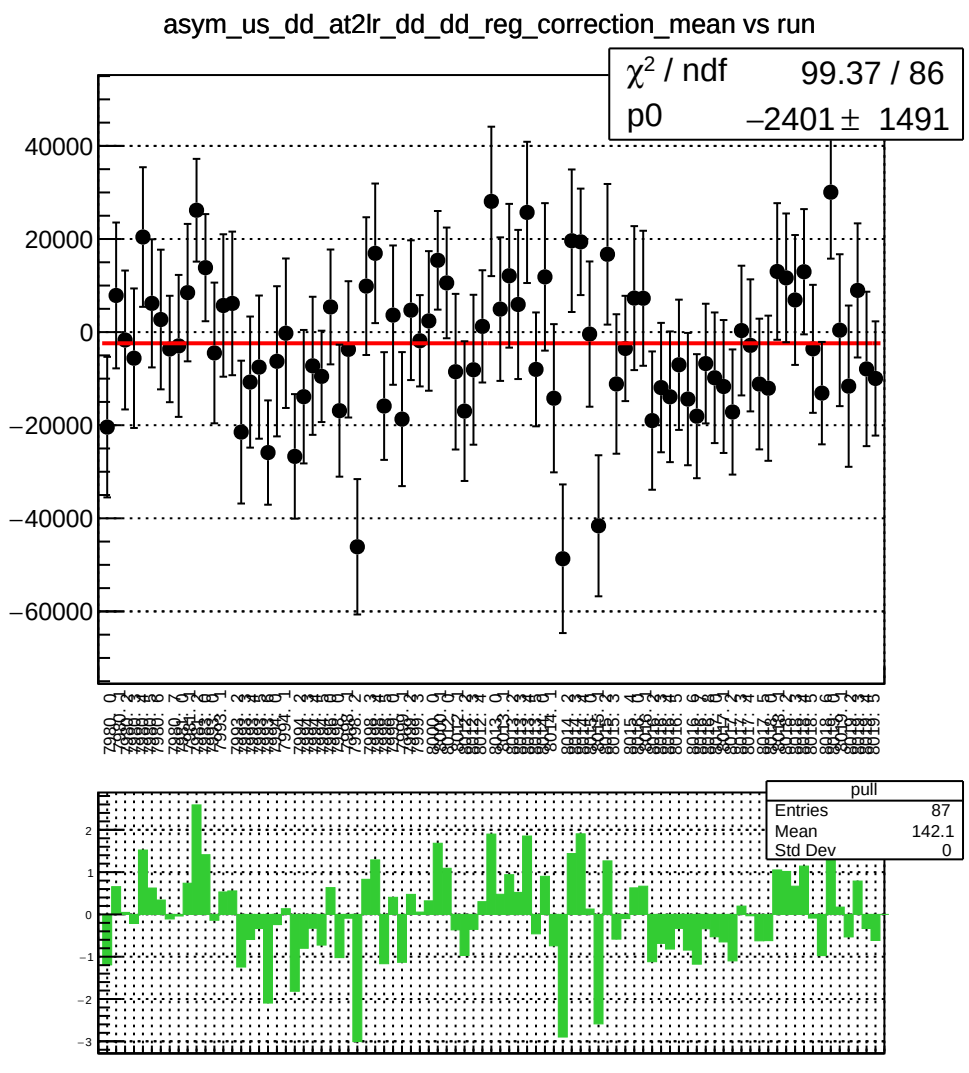

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.72 / 86
p0 3.016e−13 ± 2.222e−13
pull
Entries 87
Mean −9.754
Std Dev 0
pull1D
Entries 87
Mean −0.04335
Std Dev 0.9742

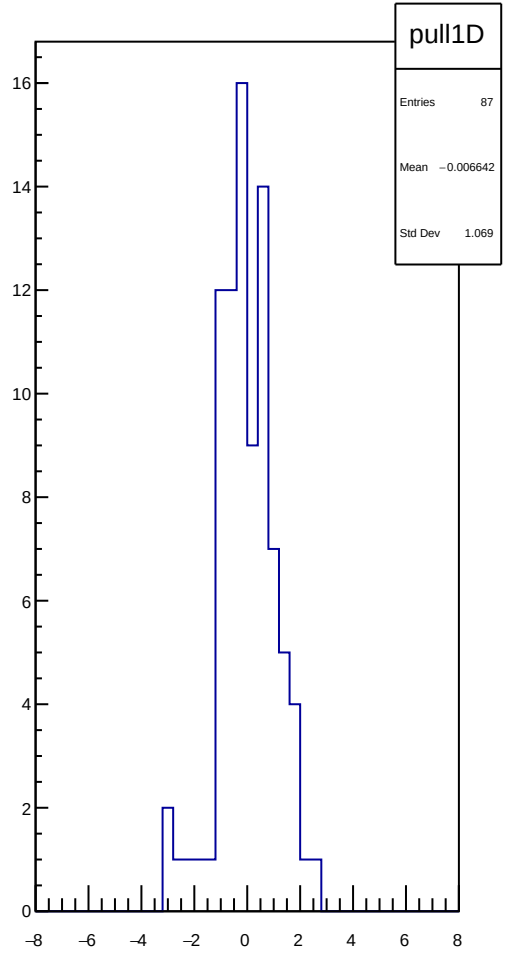

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.585e+05 / 86
p0 1.573e−10 ± 1.571e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

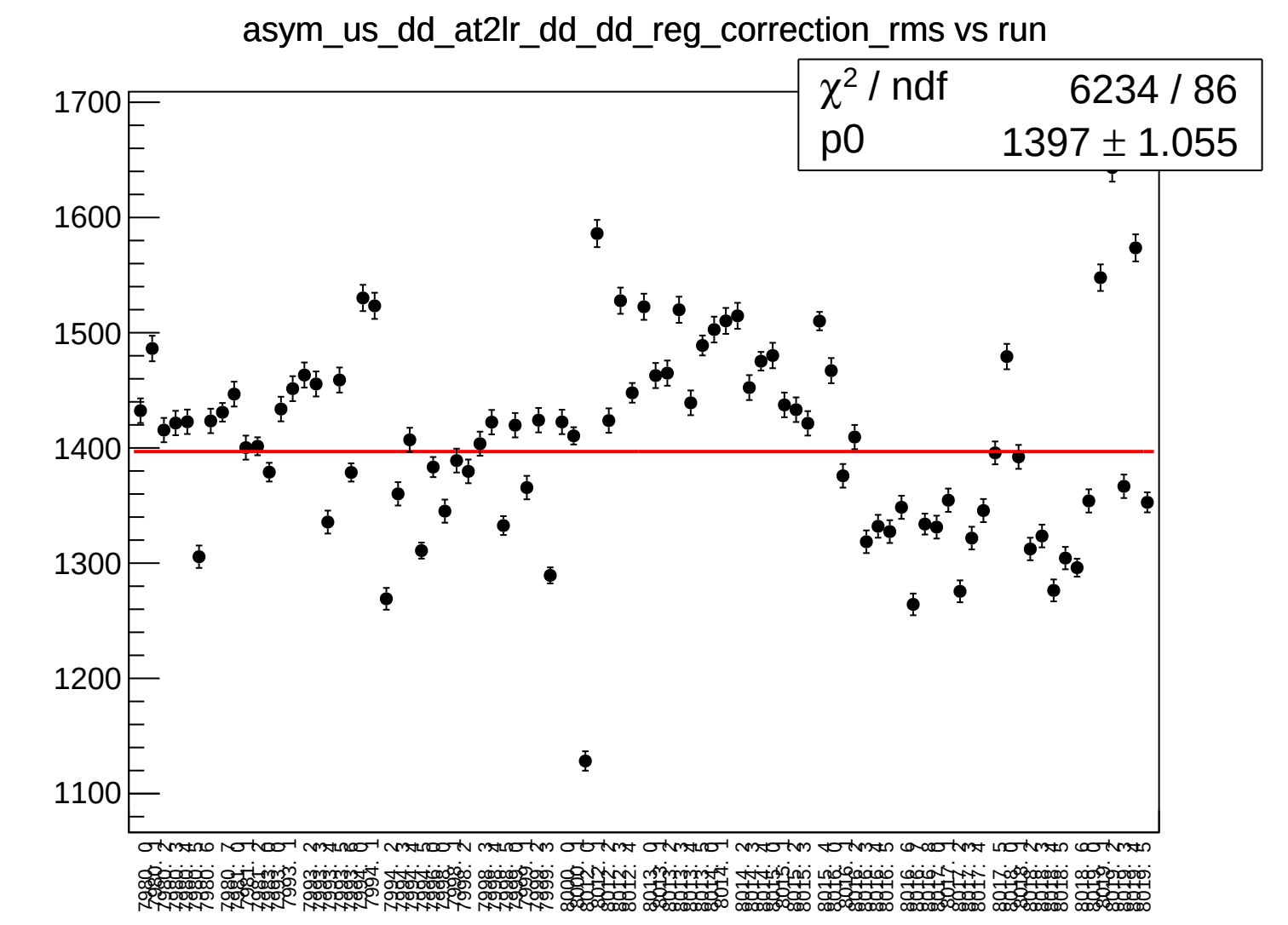

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 93.47 / 86
p0 819.7 ± 1705
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 244
Std Dev 0
3
2
1
0
−1
−2

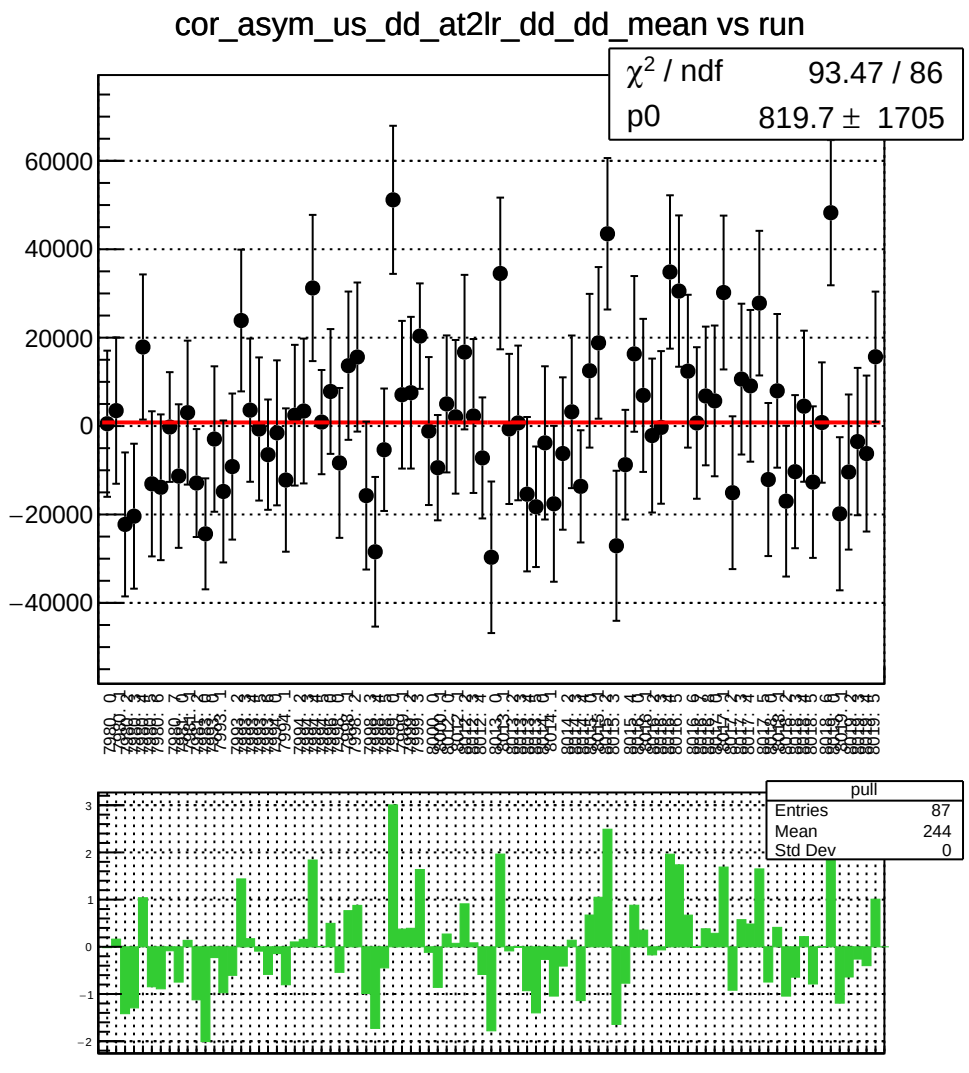

pull1D
Entries 87
Mean 0.02286
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

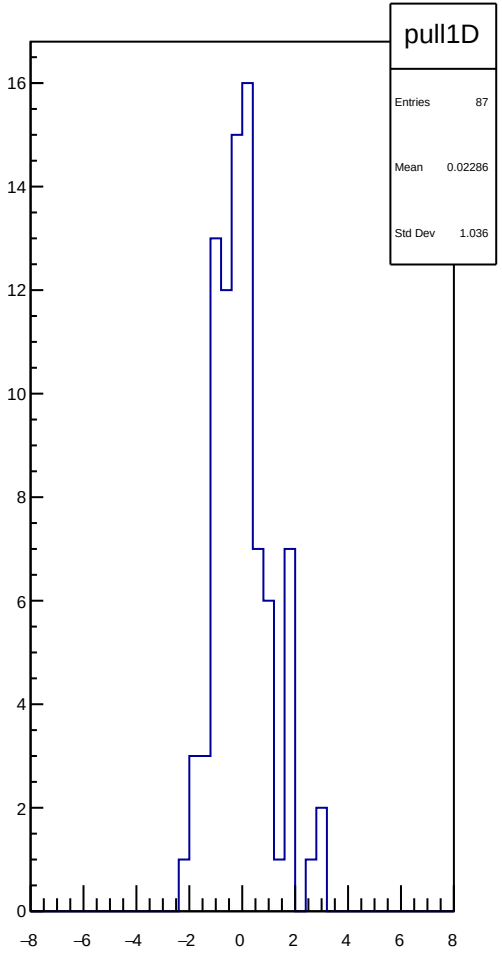

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1473 / 86
p0 1599 ± 1.205
1700
1650
1600
1550
1500
1450

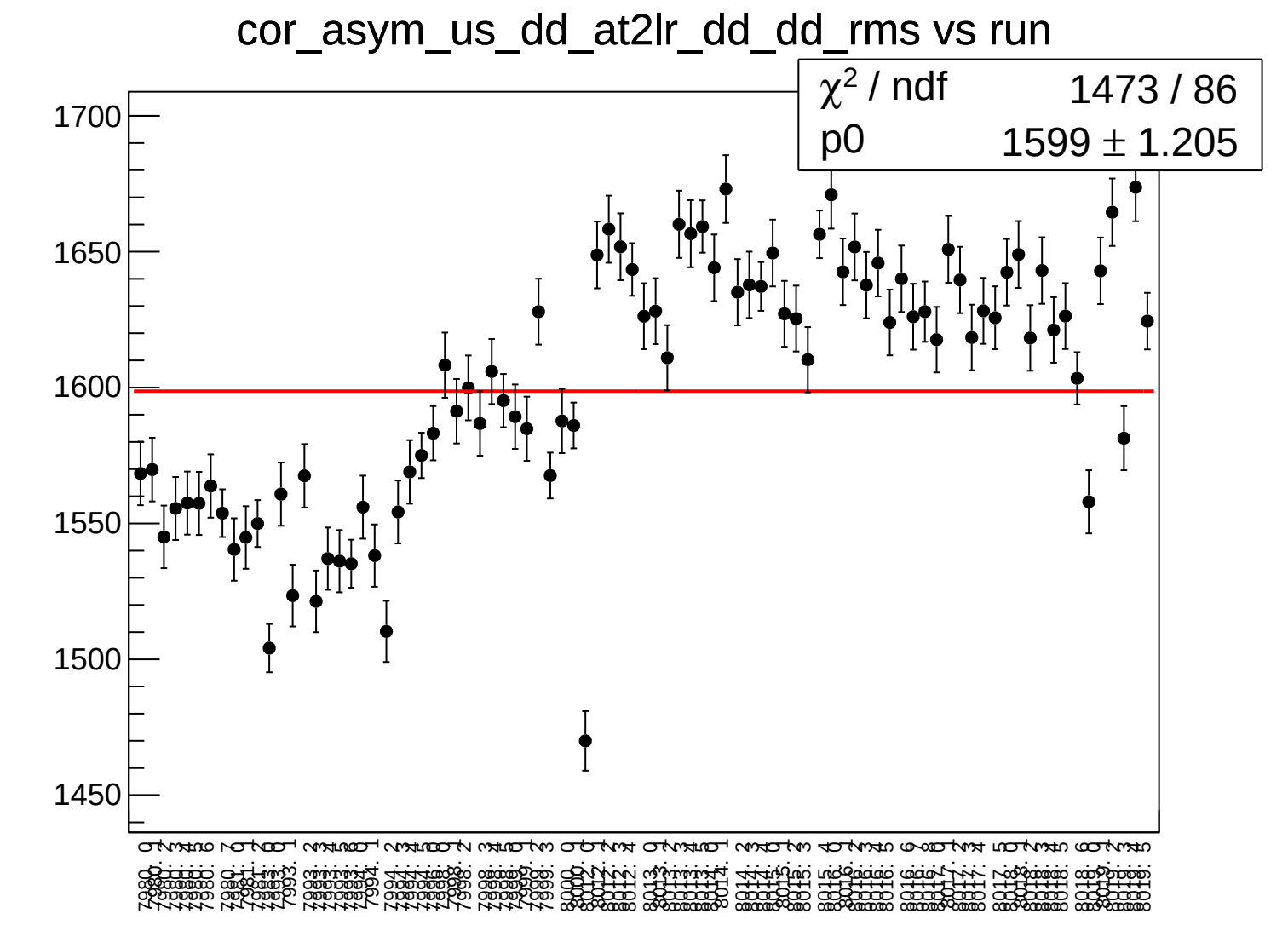

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 99.37 / 86
p0 −2401 ± 1491
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 142.1
Std Dev 0
2
1
0
−1
−2
−3

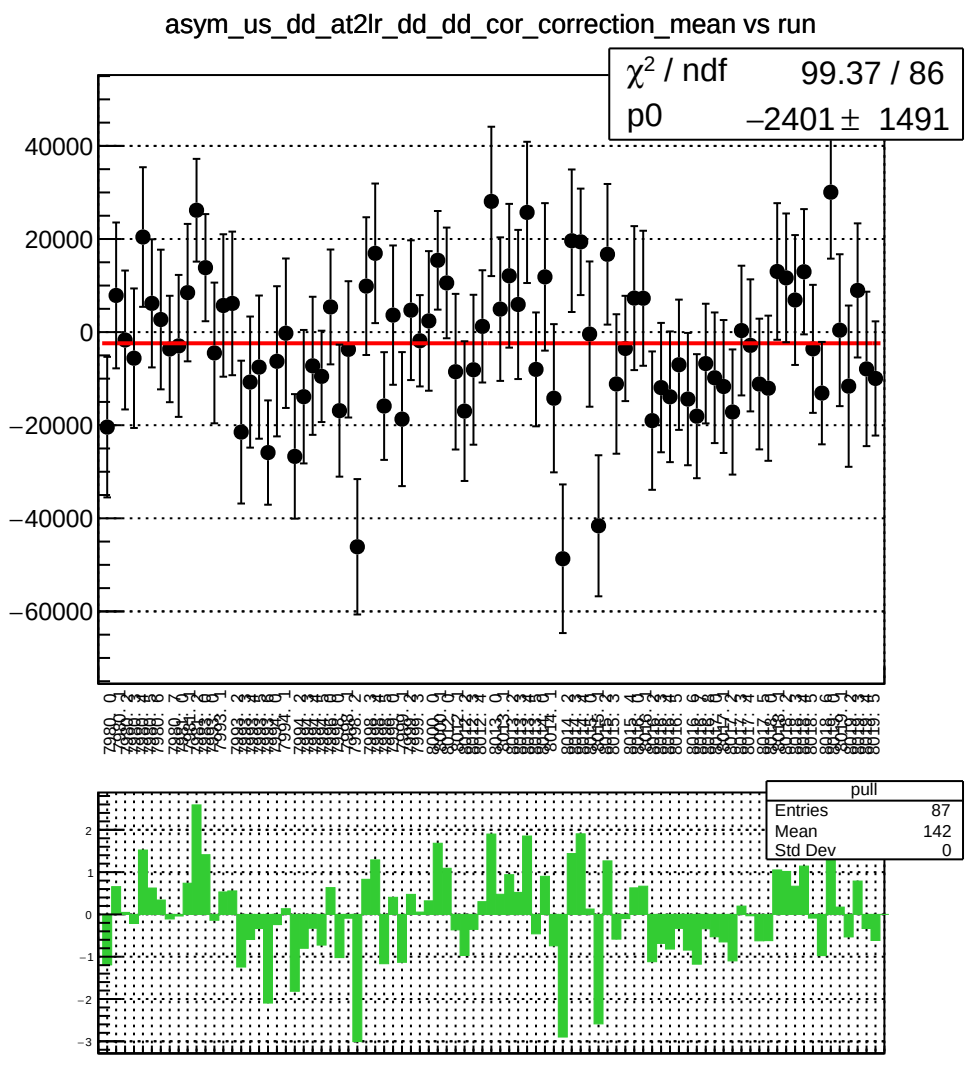

pull1D
Entries 87
Mean −0.006642
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

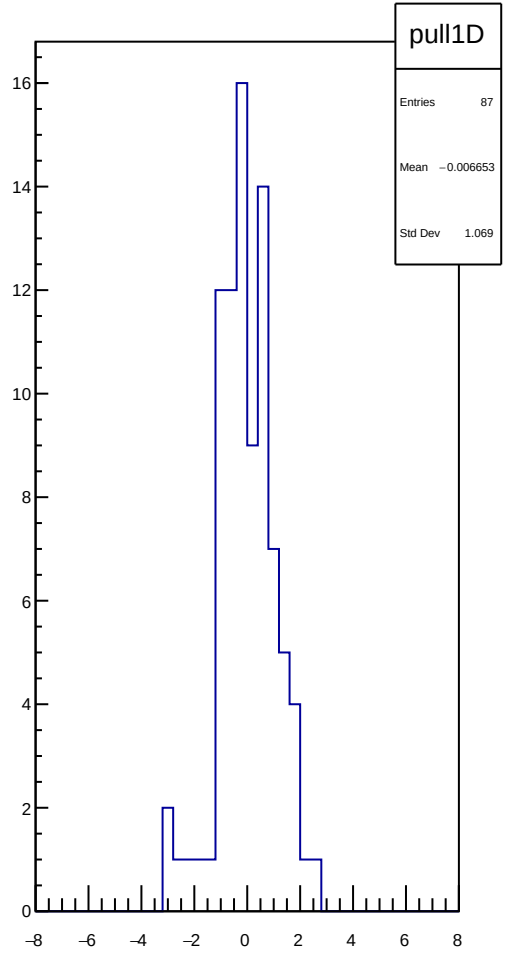

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 6234 / 86
p0 1397 ± 1.055
1700
1600
1500
1400
1300
1200
1100

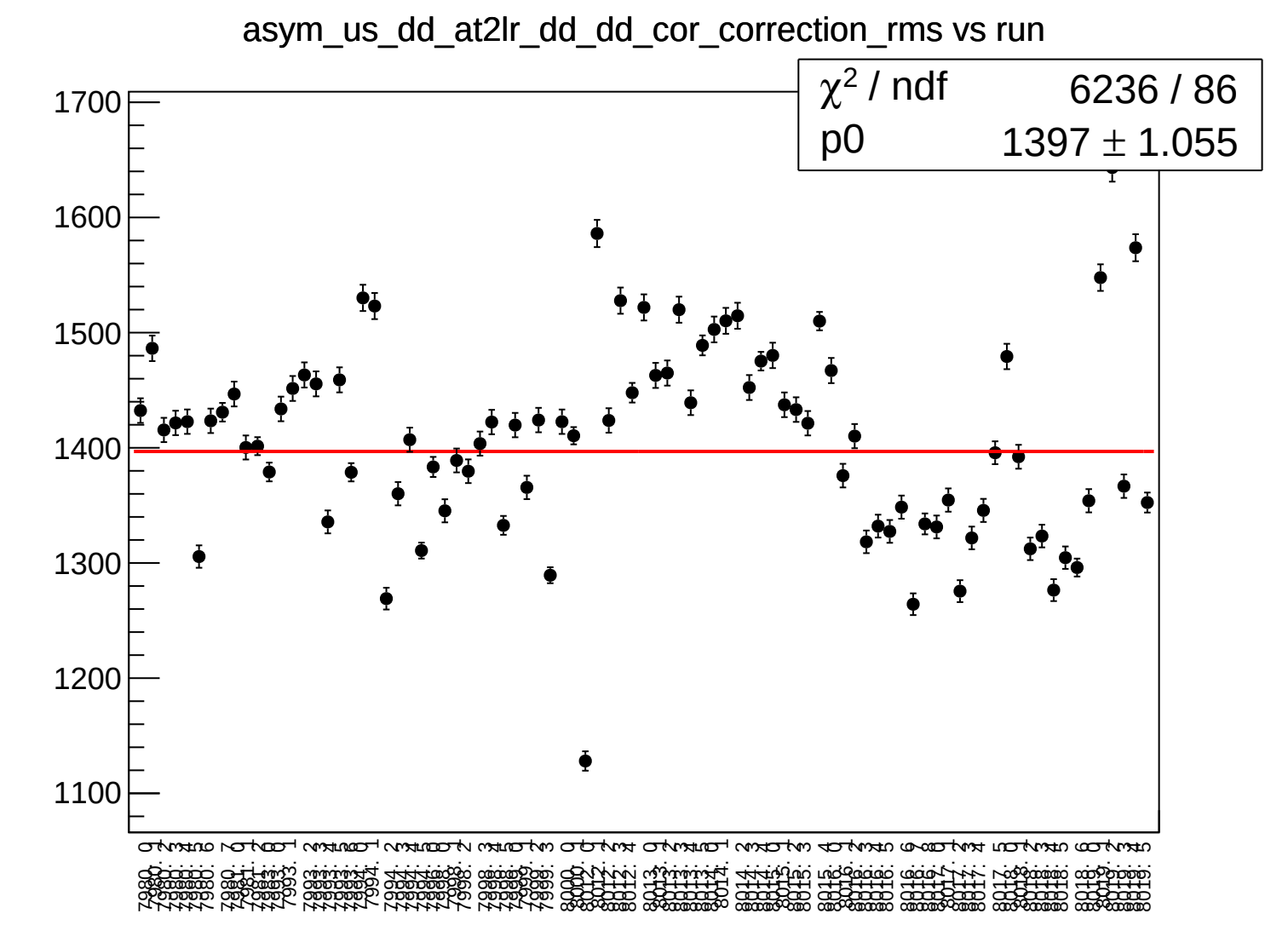

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 93.47 / 86
p0 819.7 ± 1705
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 244
Std Dev 0
3
2
1
0
−1
−2

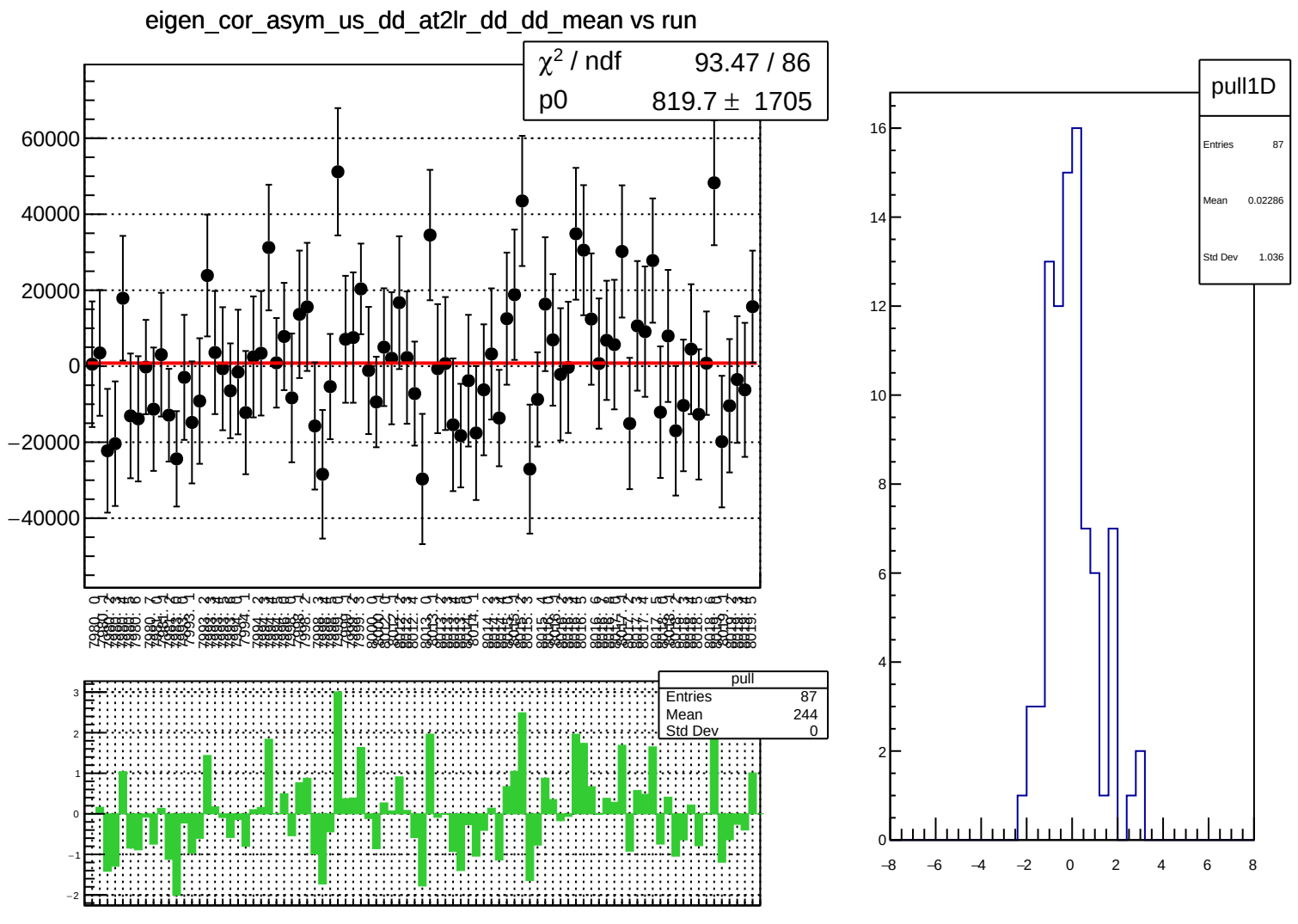

pull1D
Entries 87
Mean 0.02286
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

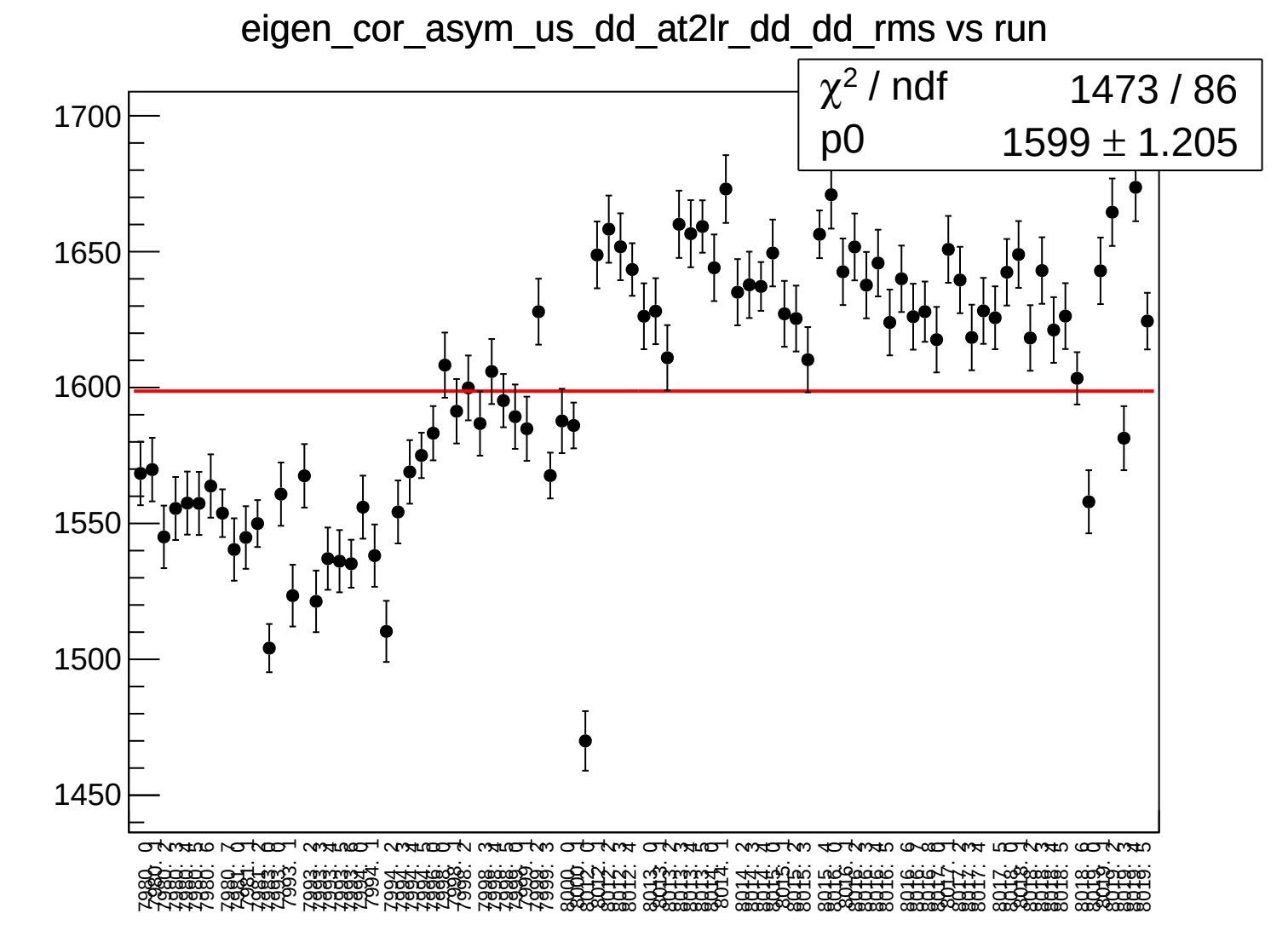

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1473 / 86
p0 1599 ± 1.205
1700
1650
1600
1550
1500
1450

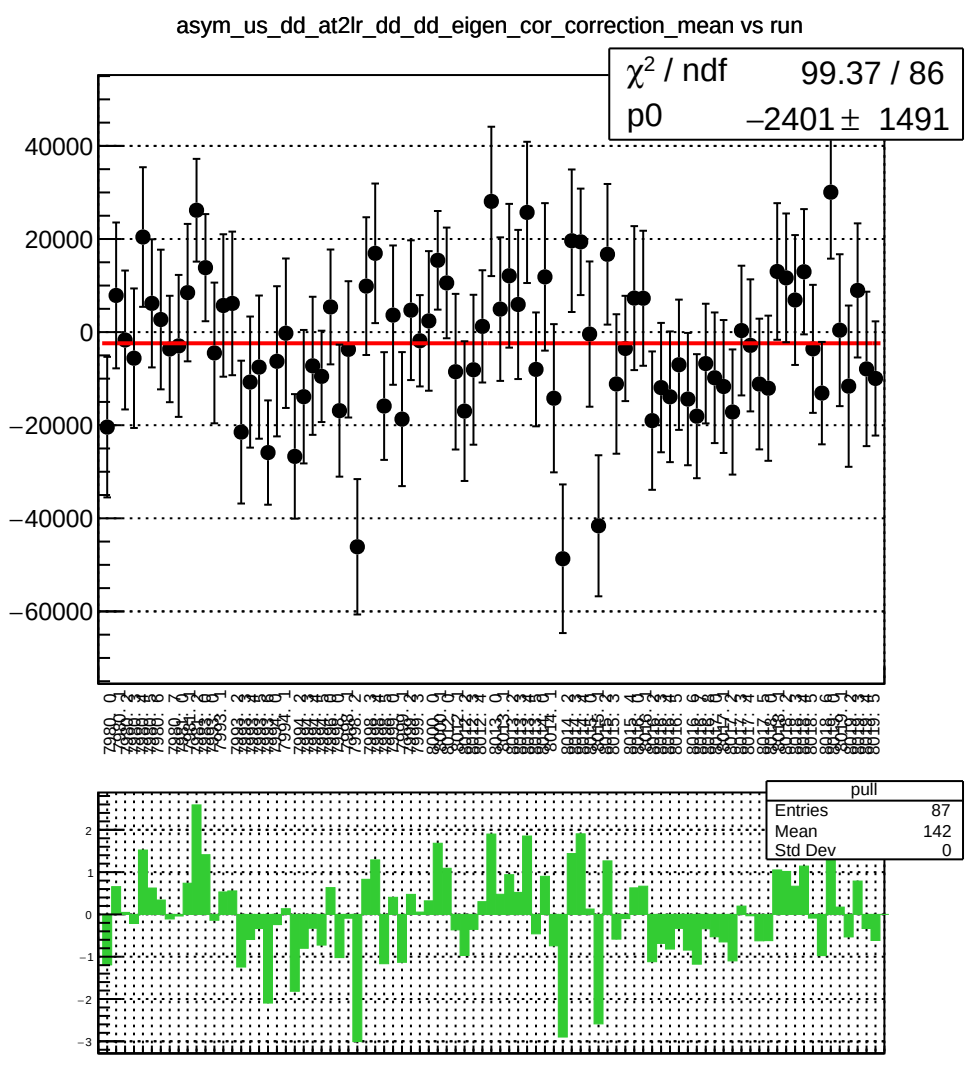

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 99.37 / 86
p0 −2401 ± 1491
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 142
Std Dev 0
2
1
0
−1
−2
−3

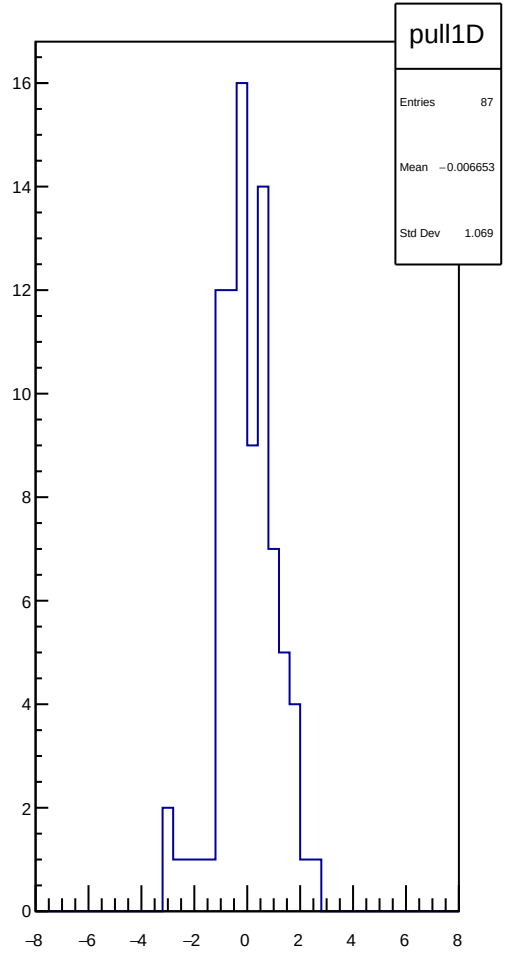

pull1D
Entries 87
Mean −0.006653
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

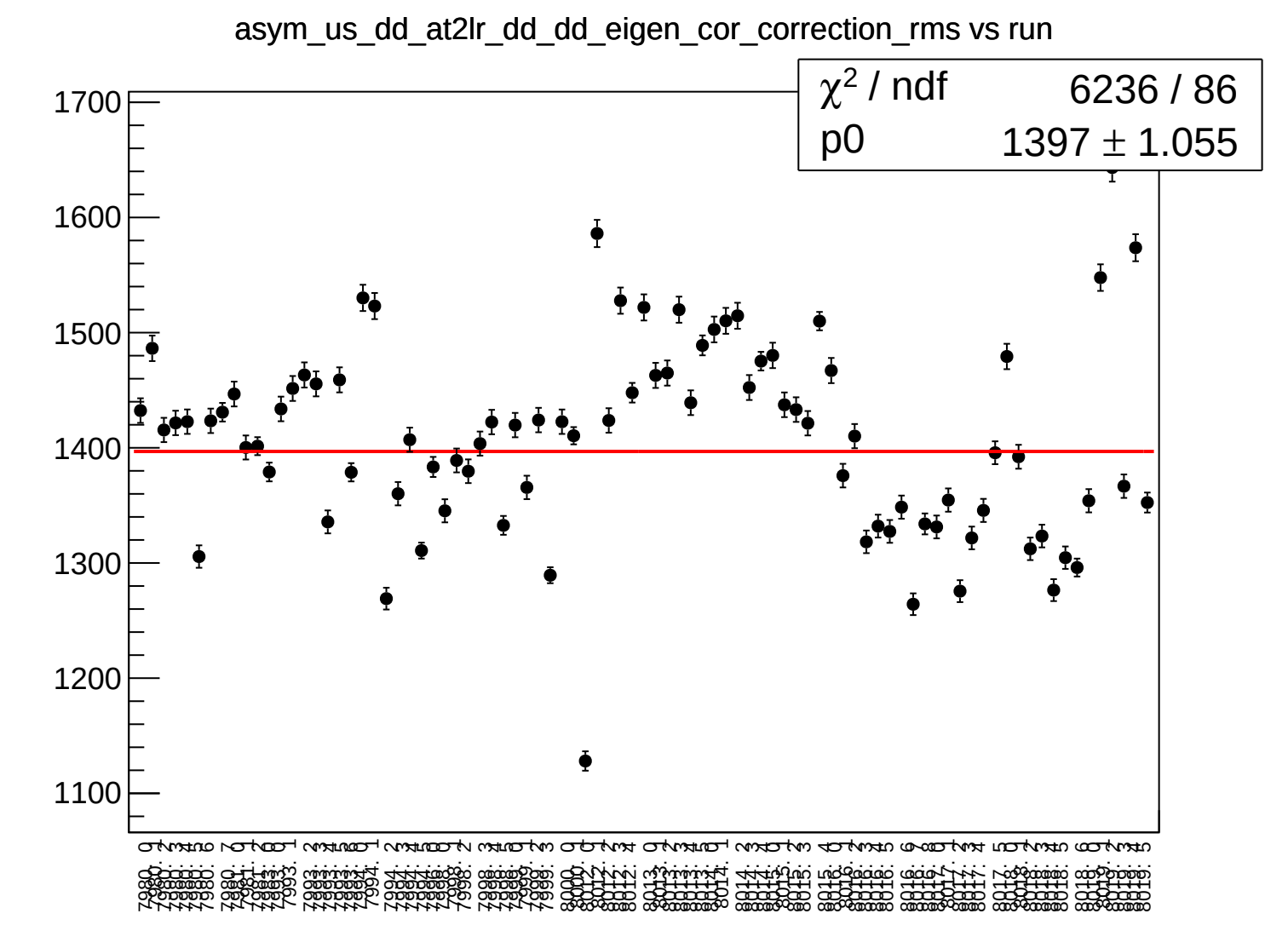

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 6236 / 86
p0 1397 ± 1.055
1700
1600
1500
1400
1300
1200
1100

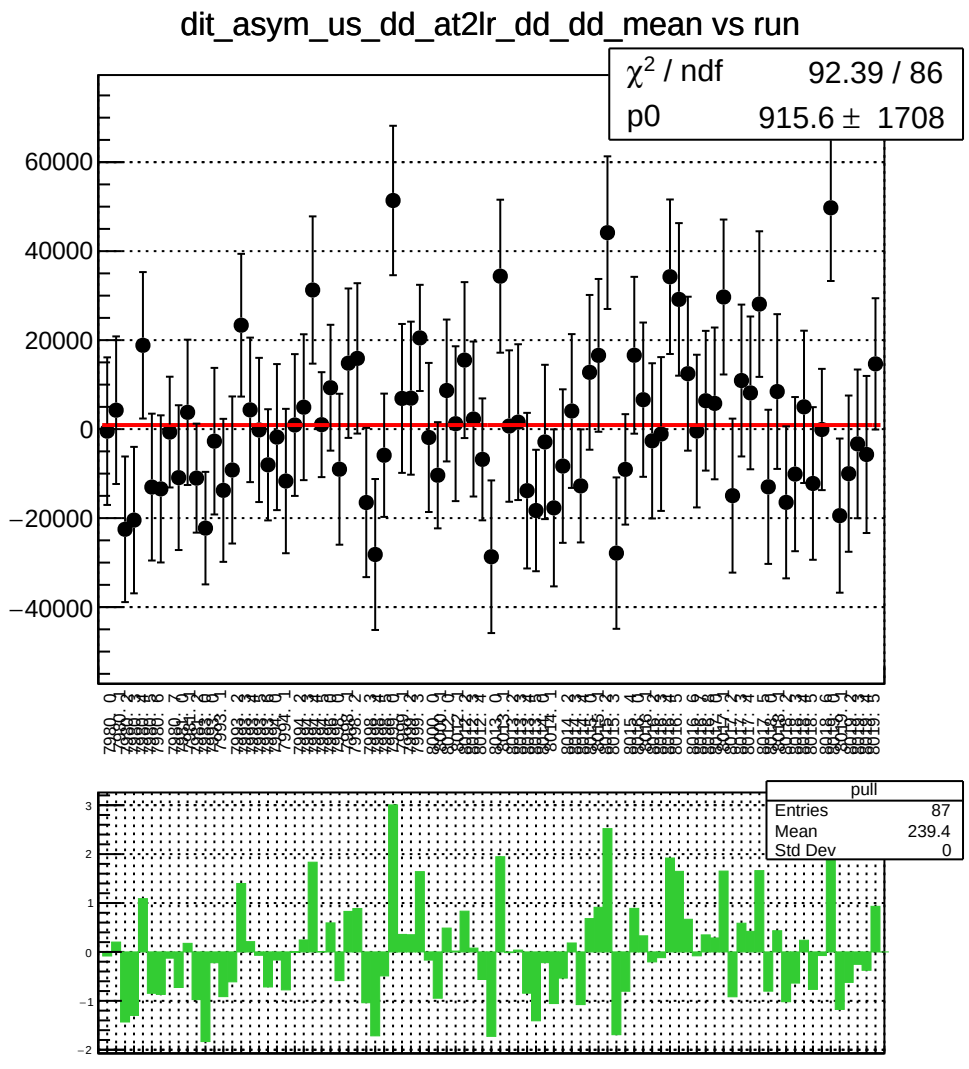

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 93.47 / 86
p0 819.7 ± 1705
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 244
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.02286
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

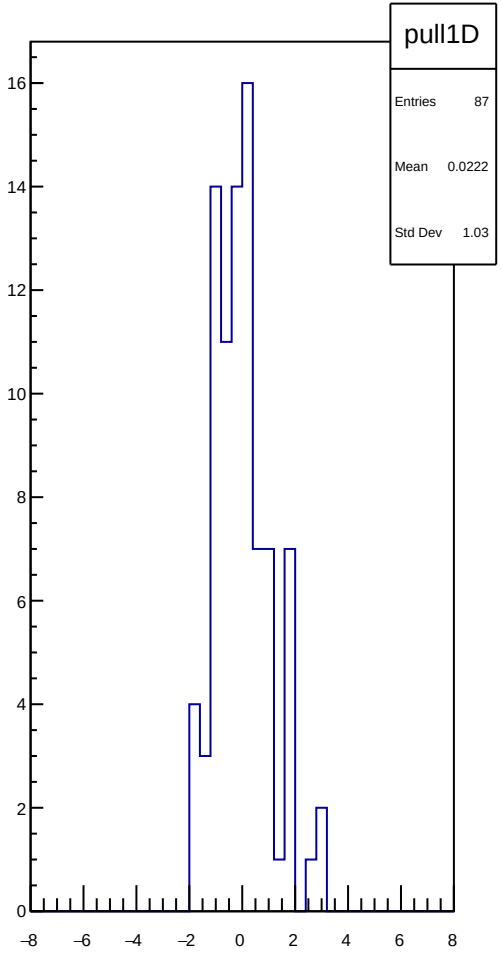

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1473 / 86
p0 1599 ± 1.205
1700
1650
1600
1550
1500
1450

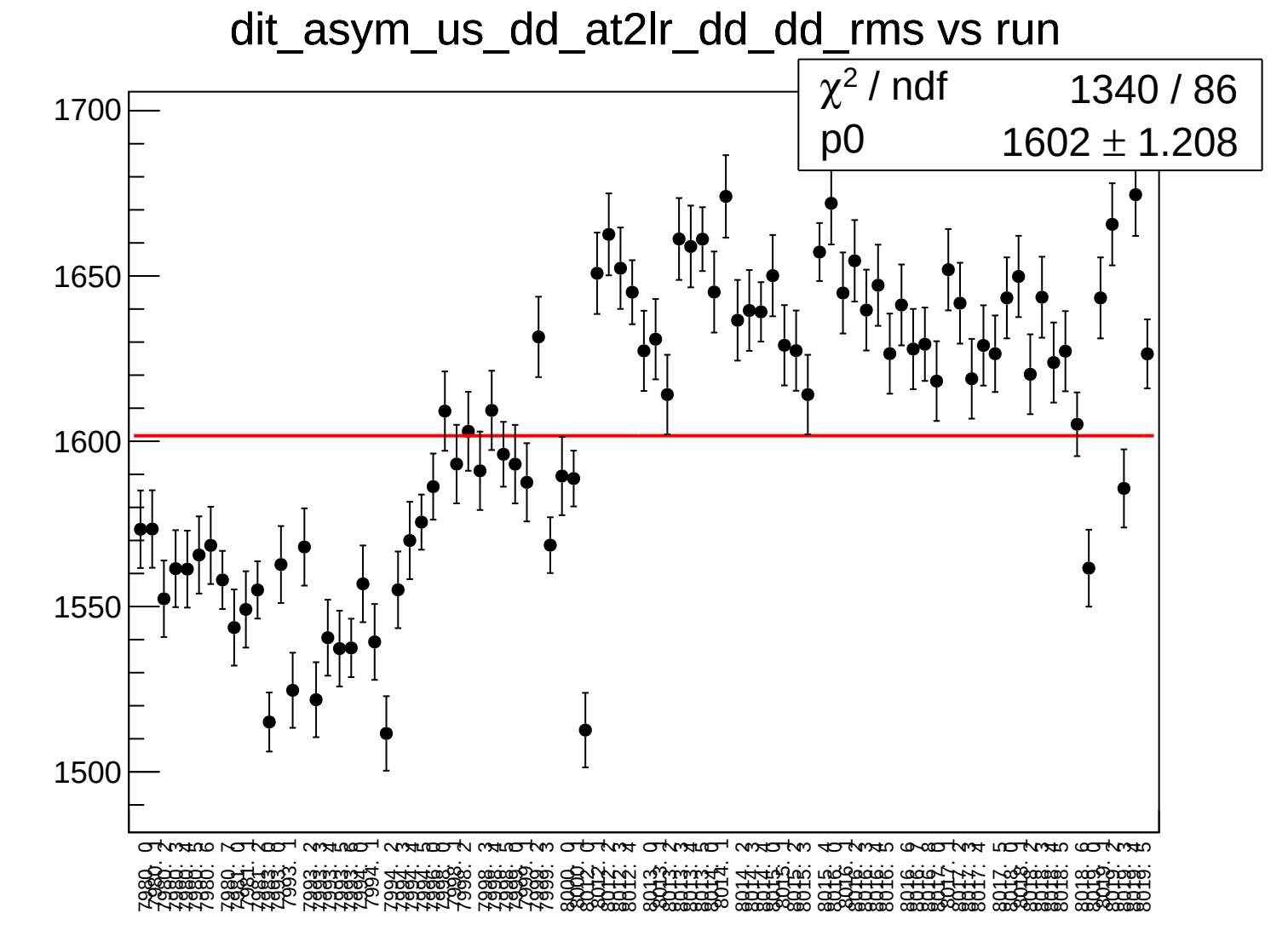

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.37 / 86
p0 −2401 ± 1491
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 142
Std Dev 0
2
1
0
−1
−2
−3

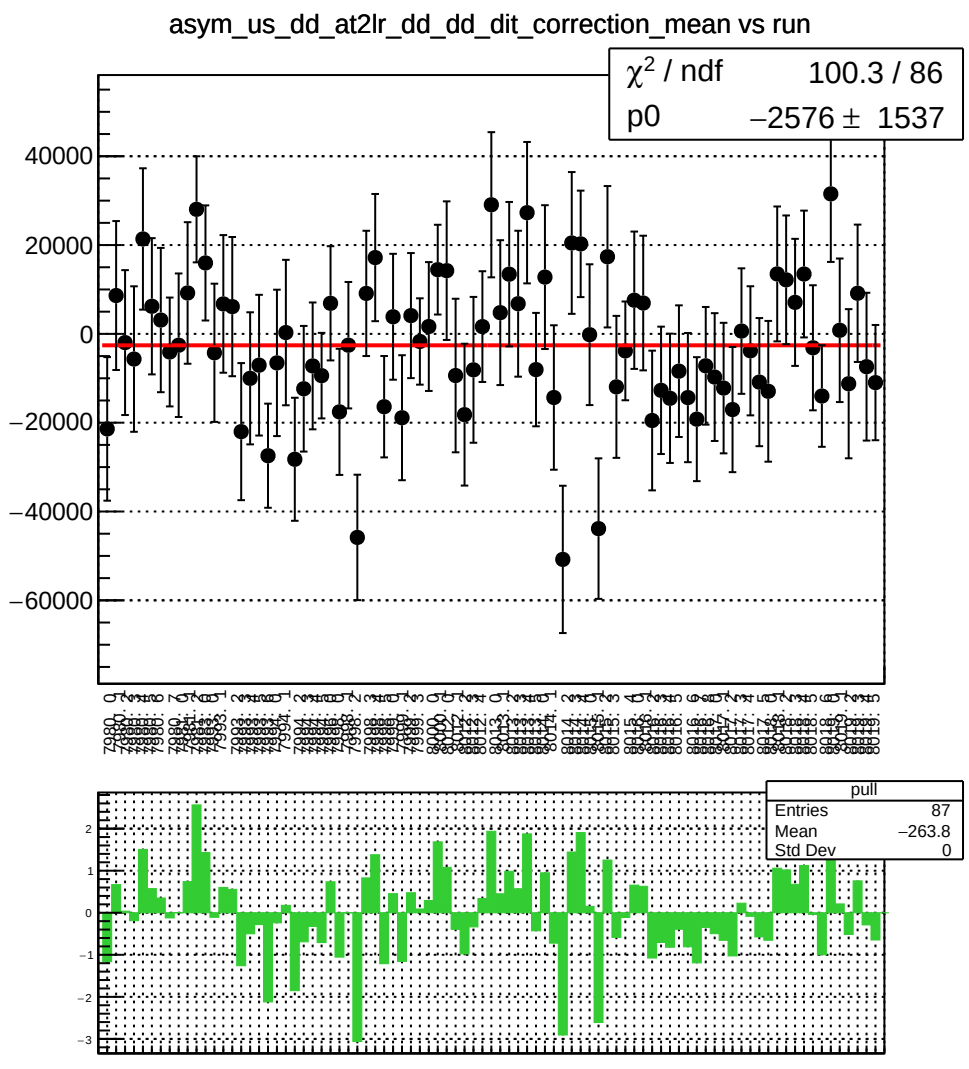

pull1D
Entries 87
Mean −0.006653
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

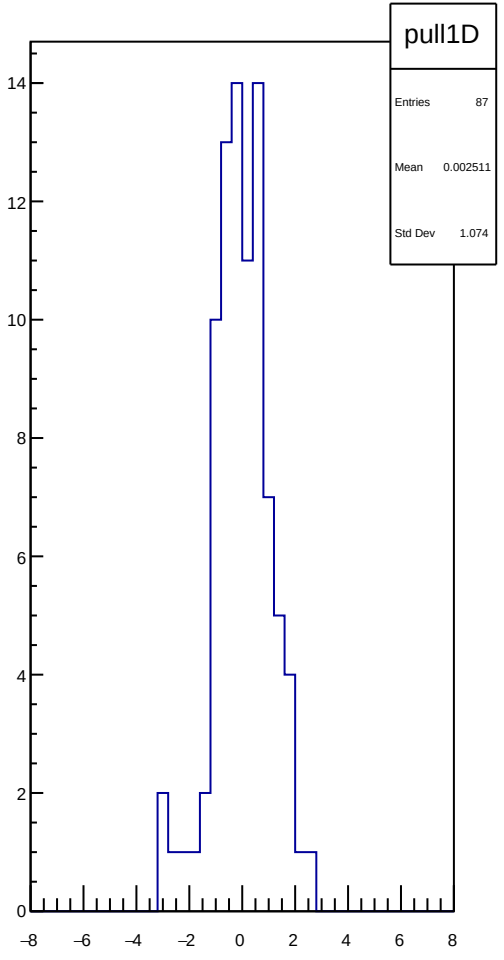

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6236 / 86
p0 1397 ± 1.055
1700
1600
1500
1400
1300
1200
1100

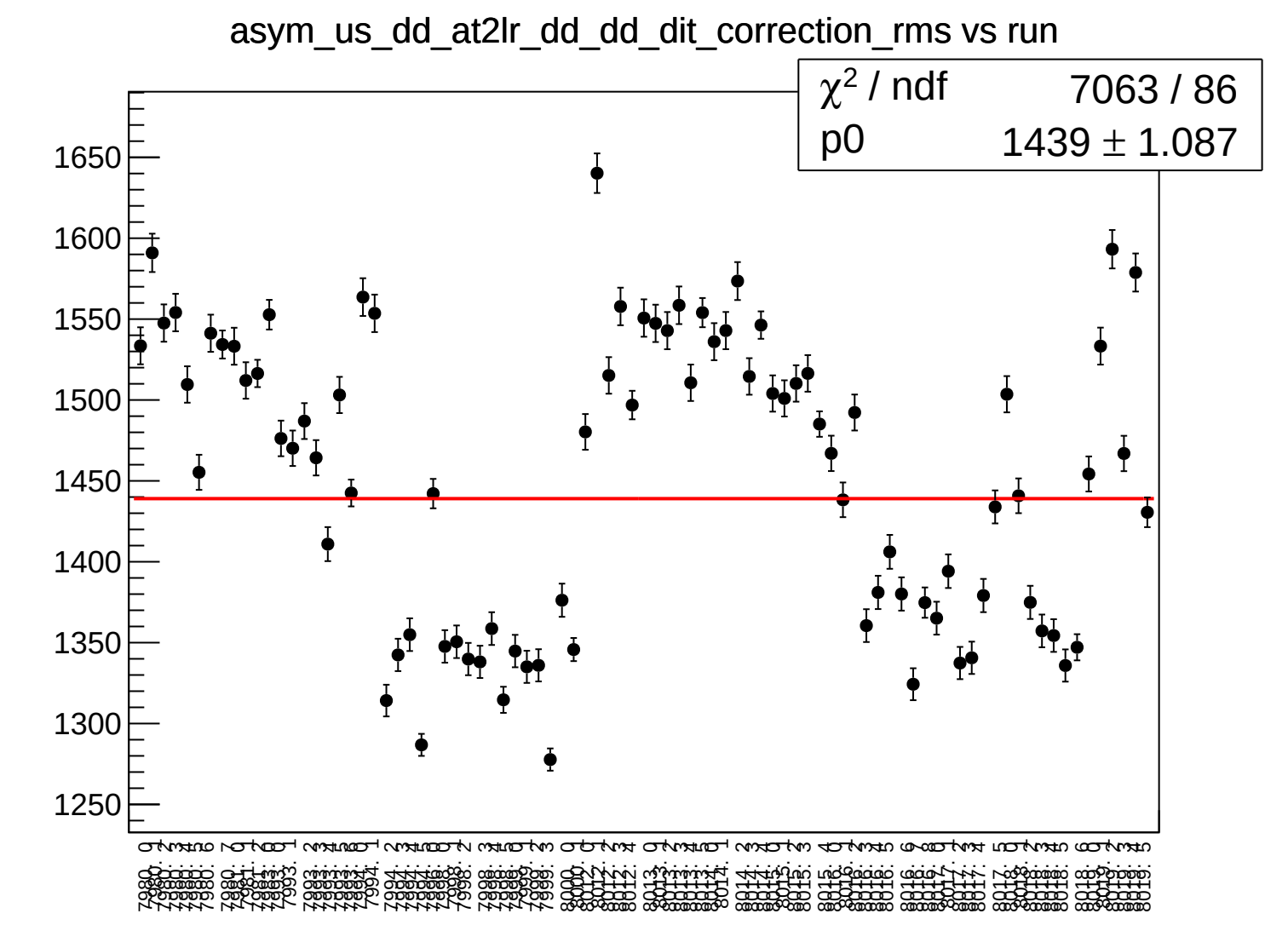

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 92.39 / 86
p0 915.6 ± 1708
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 239.4
Std Dev 0
3
2
1
0
−1
−2

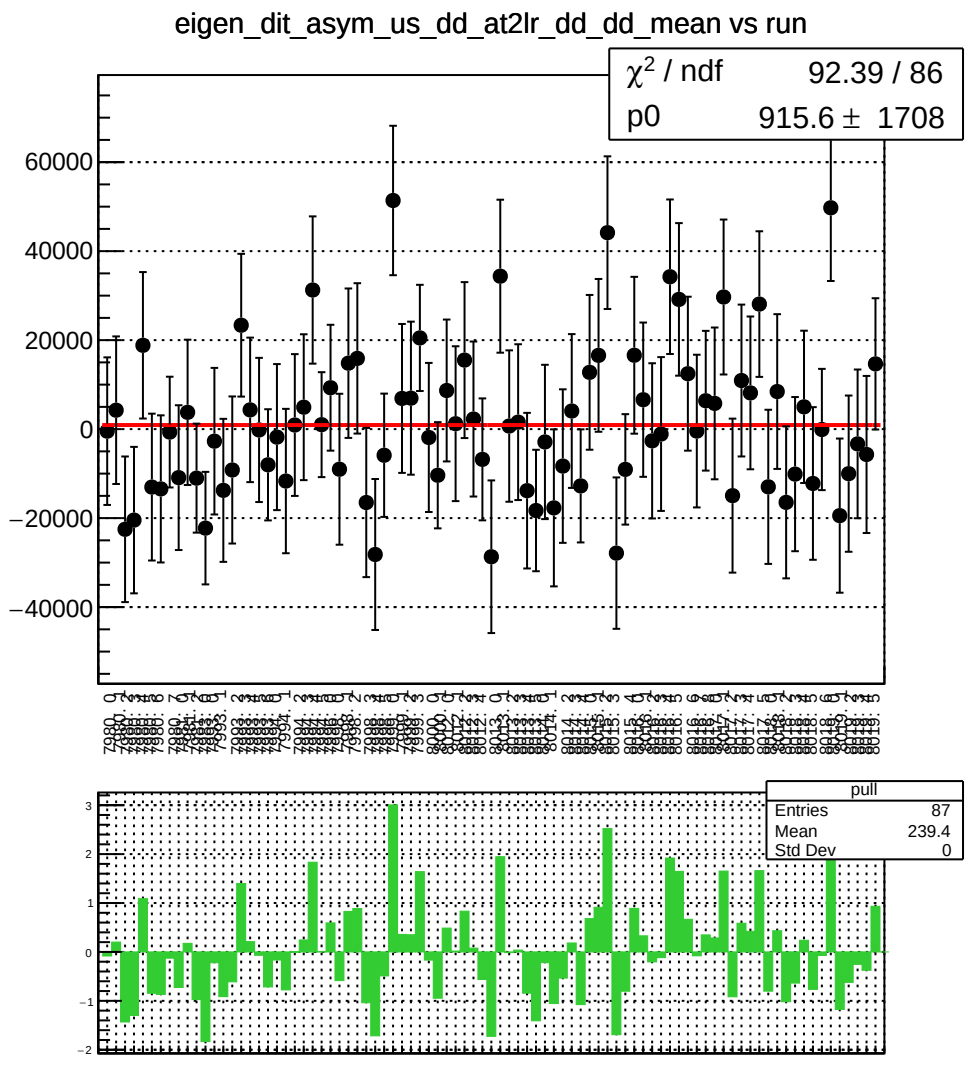

pull1D
Entries 87
Mean 0.0222
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

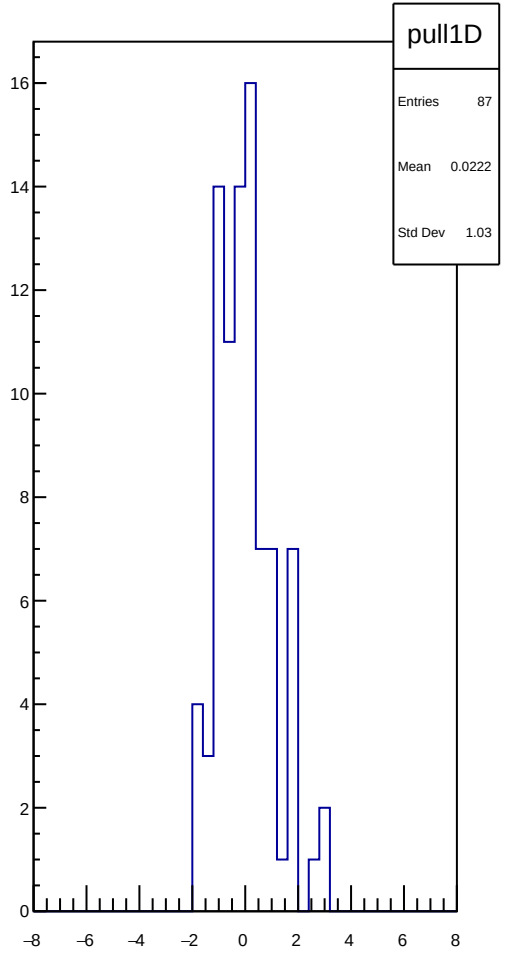

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1340 / 86
p0 1602 ± 1.208
1700
1650
1600
1550
1500

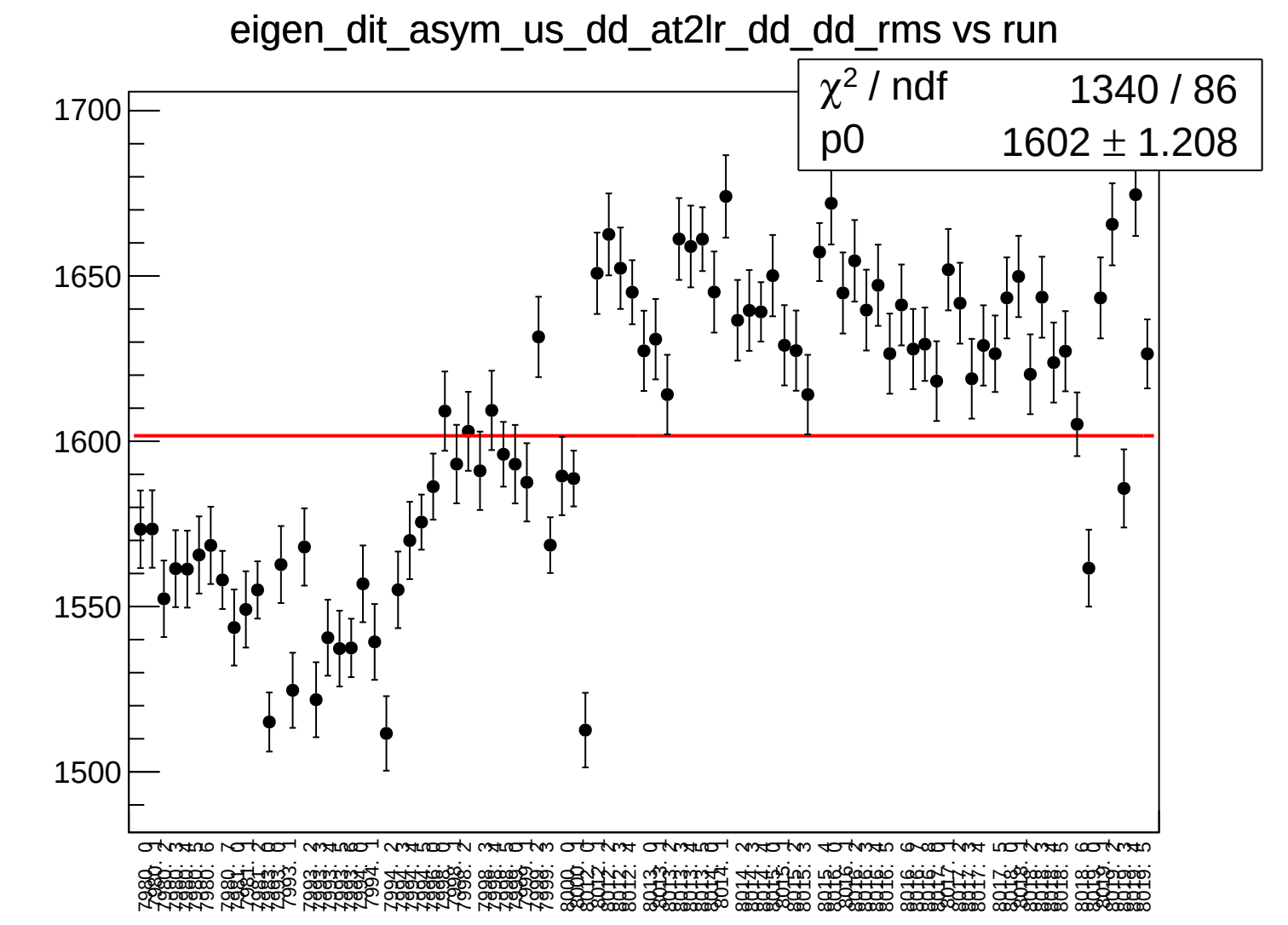

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 100.3 / 86
p0 −2576 ± 1537
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −263.8
Std Dev 0
2
1
0
−1
−2
−3

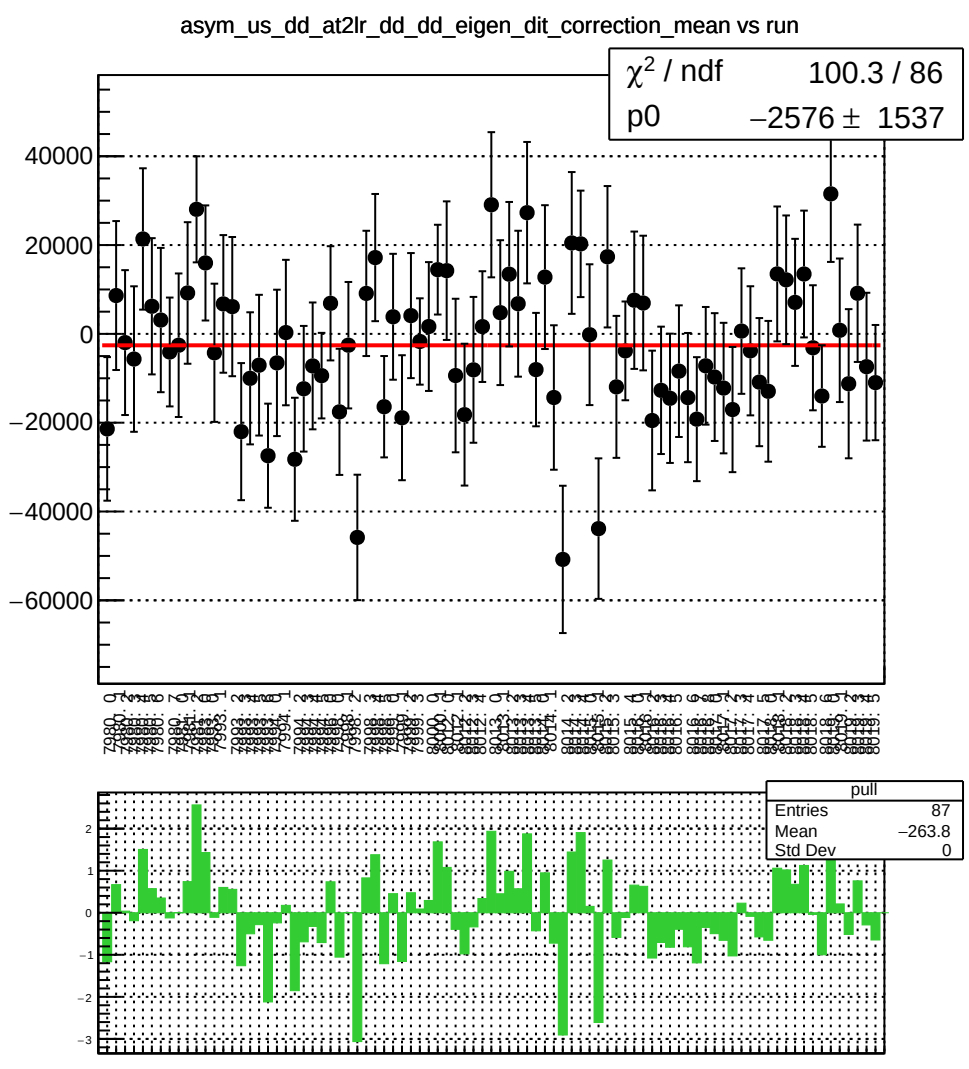

pull1D
Entries 87
Mean 0.002511
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

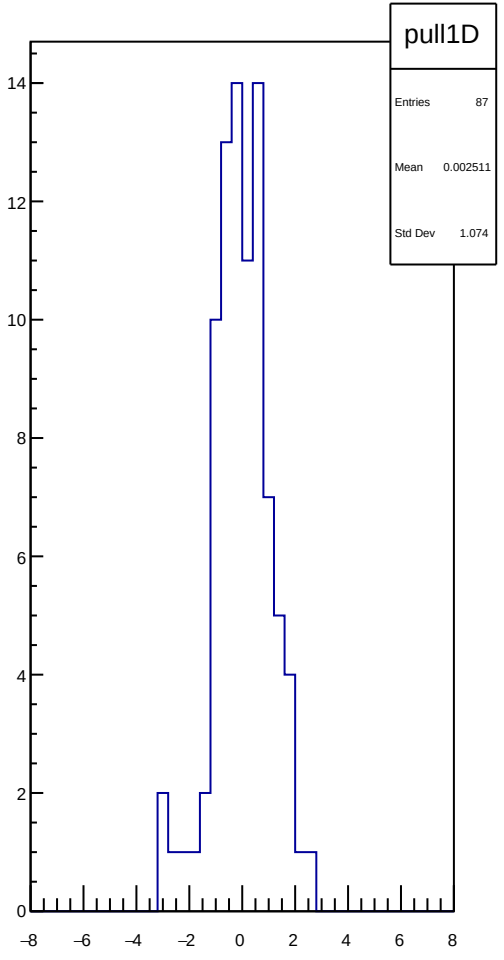

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 7063 / 86
p0 1439 ± 1.087
1650
1600
1550
1500
1450
1400
1350
1300
1250

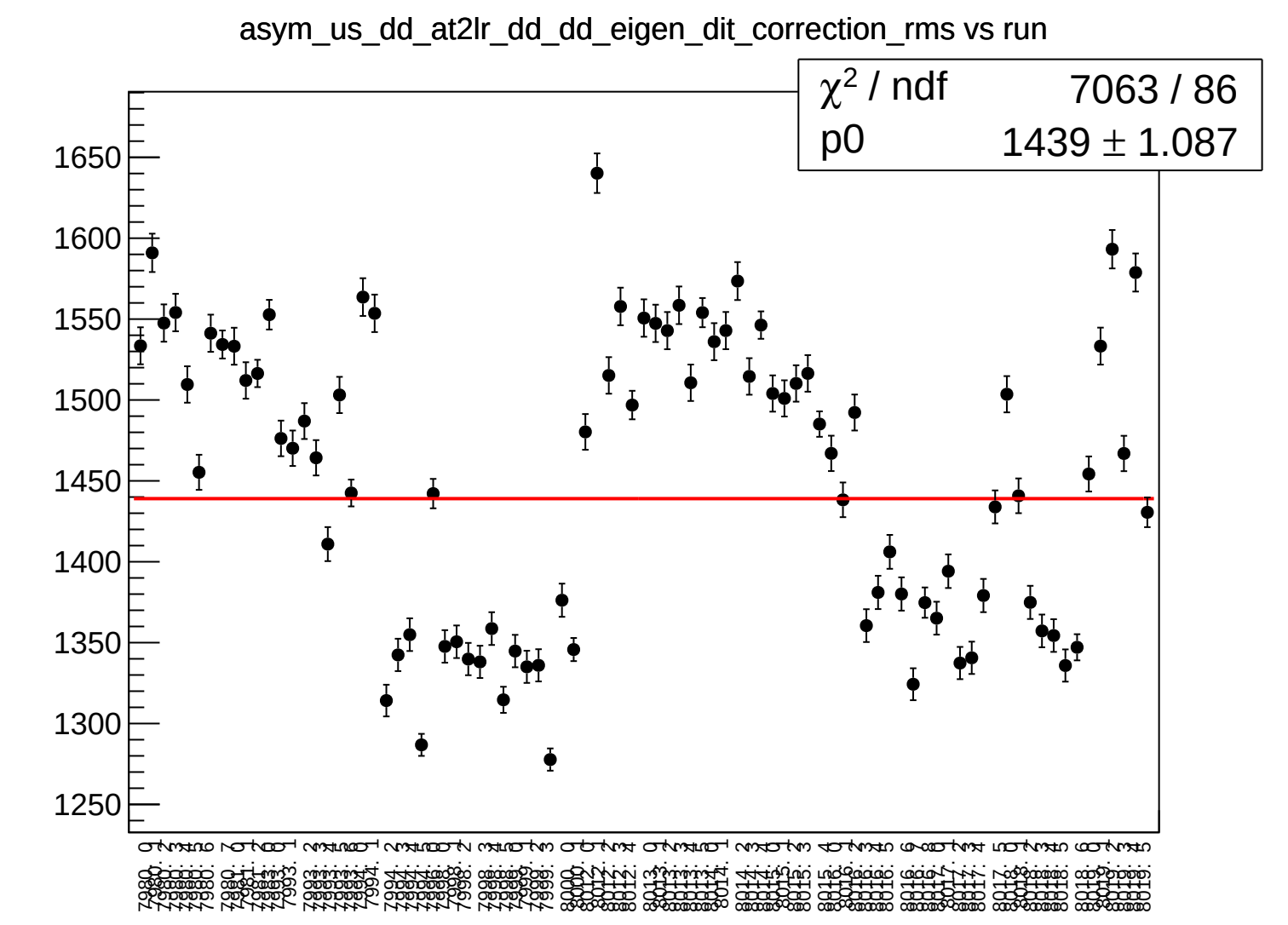

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 92.39 / 86
p0 915.6 ± 1708
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 239.4
Std Dev 0
3
2
1
0
−1
−2

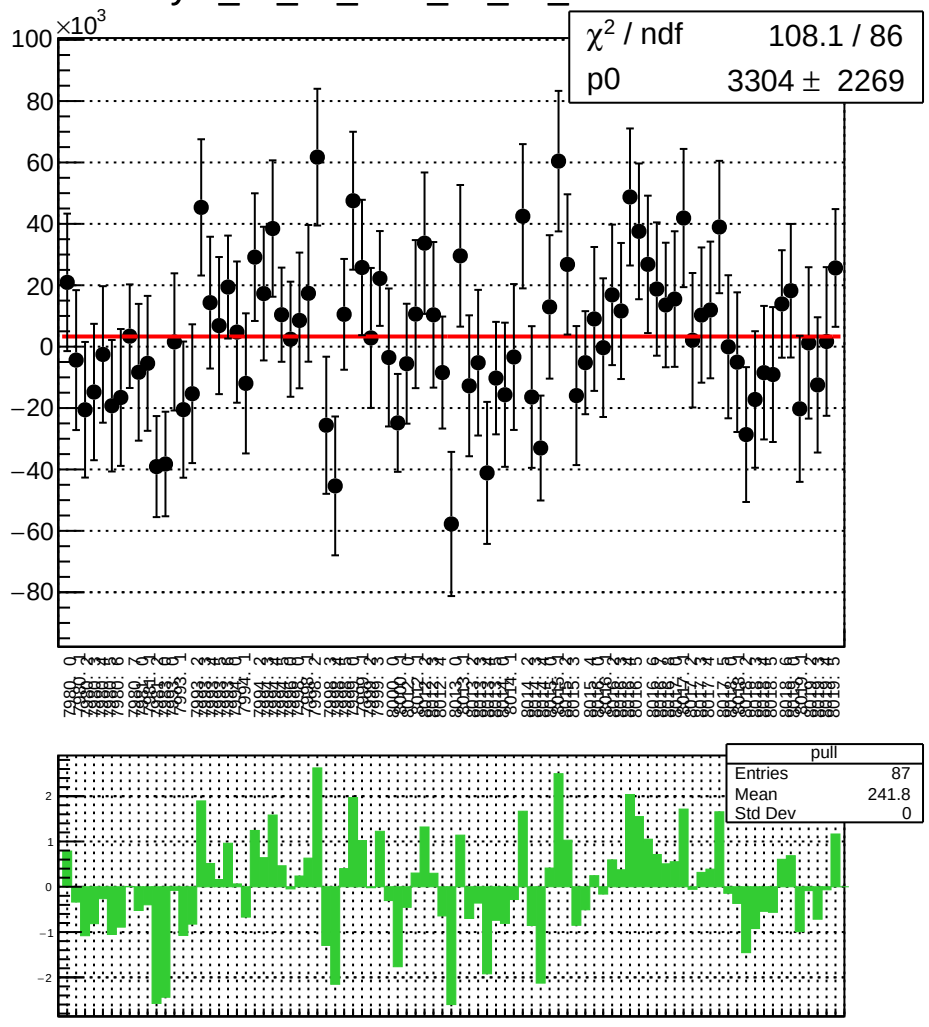

pull1D
Entries 87
Mean 0.0222
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

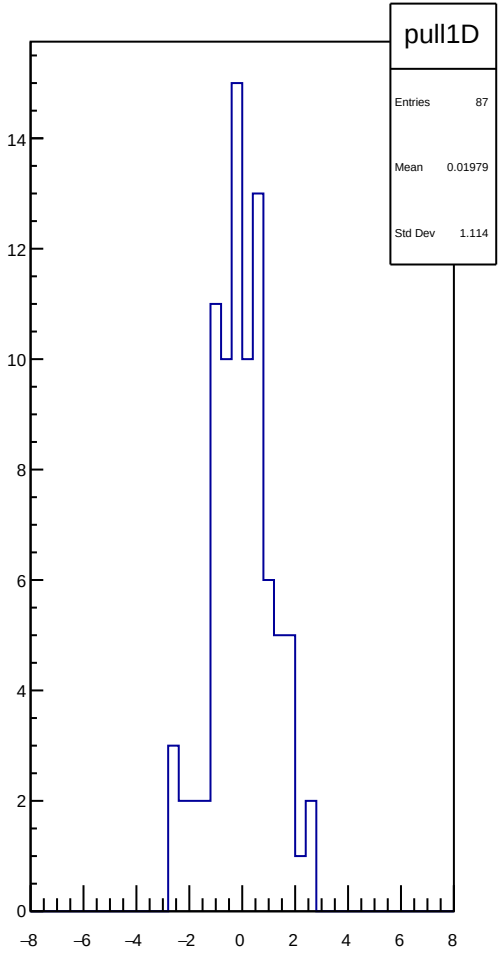

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1340 / 86
p0 1602 ± 1.208
1700
1650
1600
1550
1500

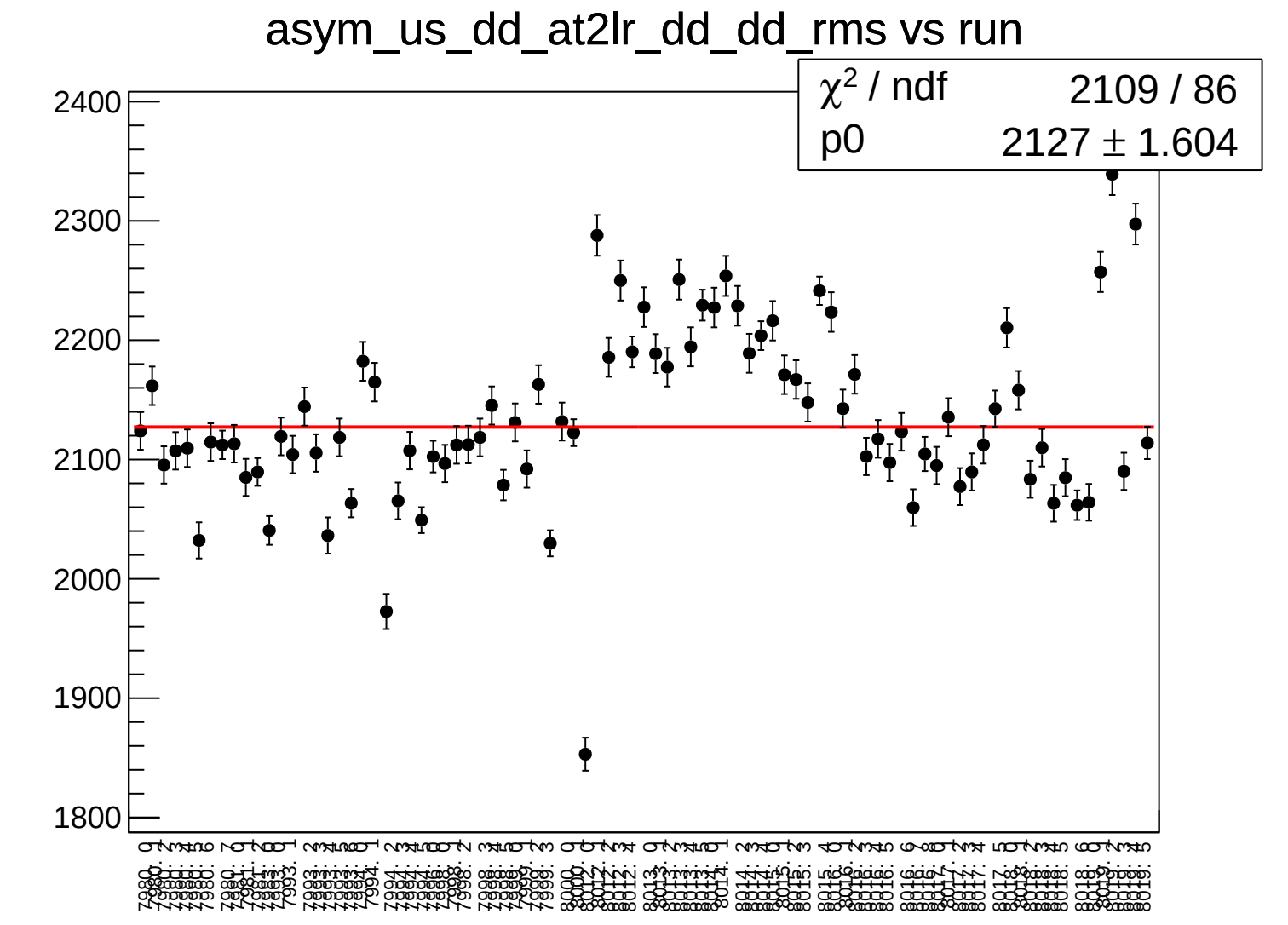

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.3 / 86
p0 −2576 ± 1537
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −263.8
Std Dev 0
2
1
0
−1
−2
−3

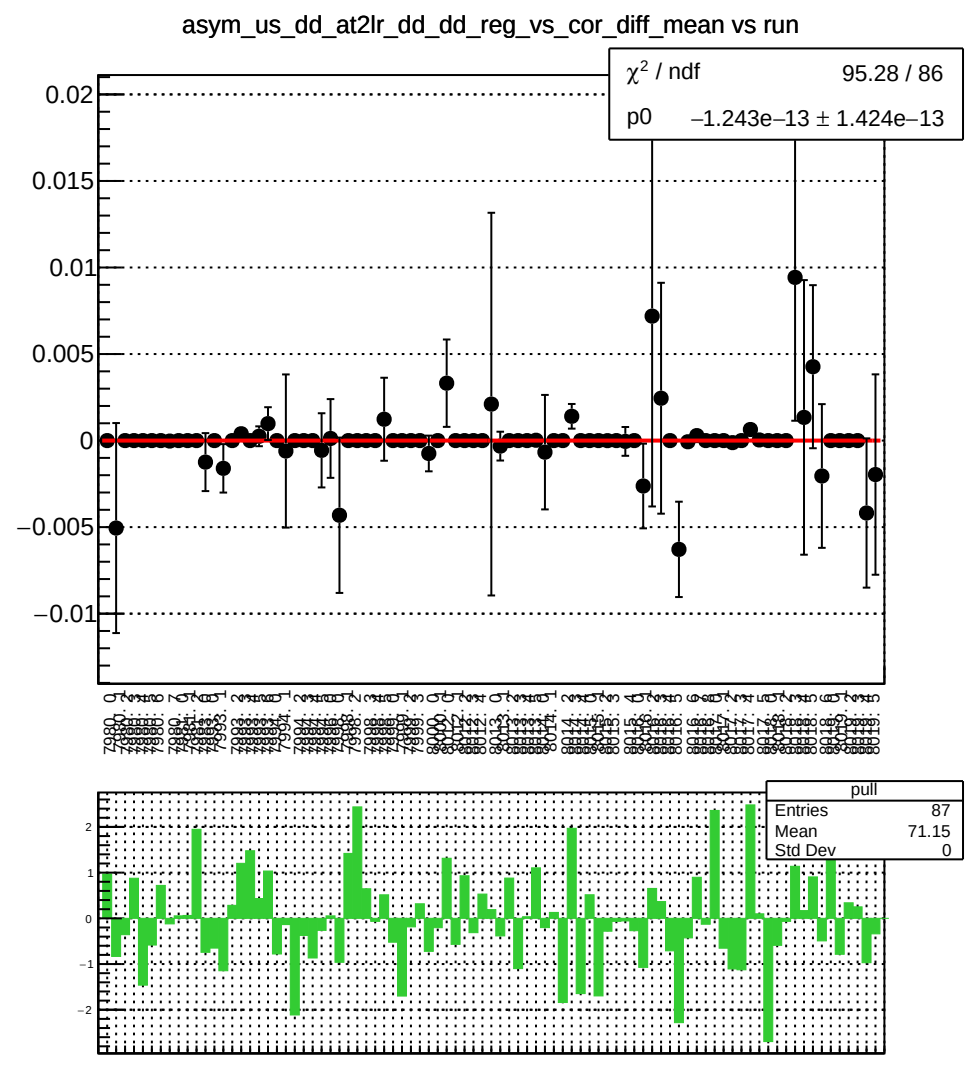

pull1D
Entries 87
Mean 0.002511
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

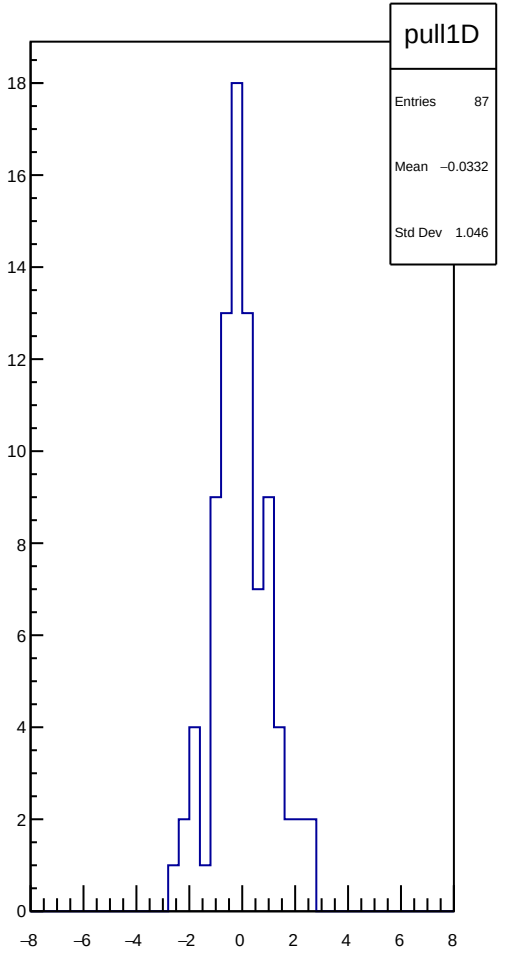

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7063 / 86
p0 1439 ± 1.087
1650
1600
1550
1500
1450
1400
1350
1300
1250

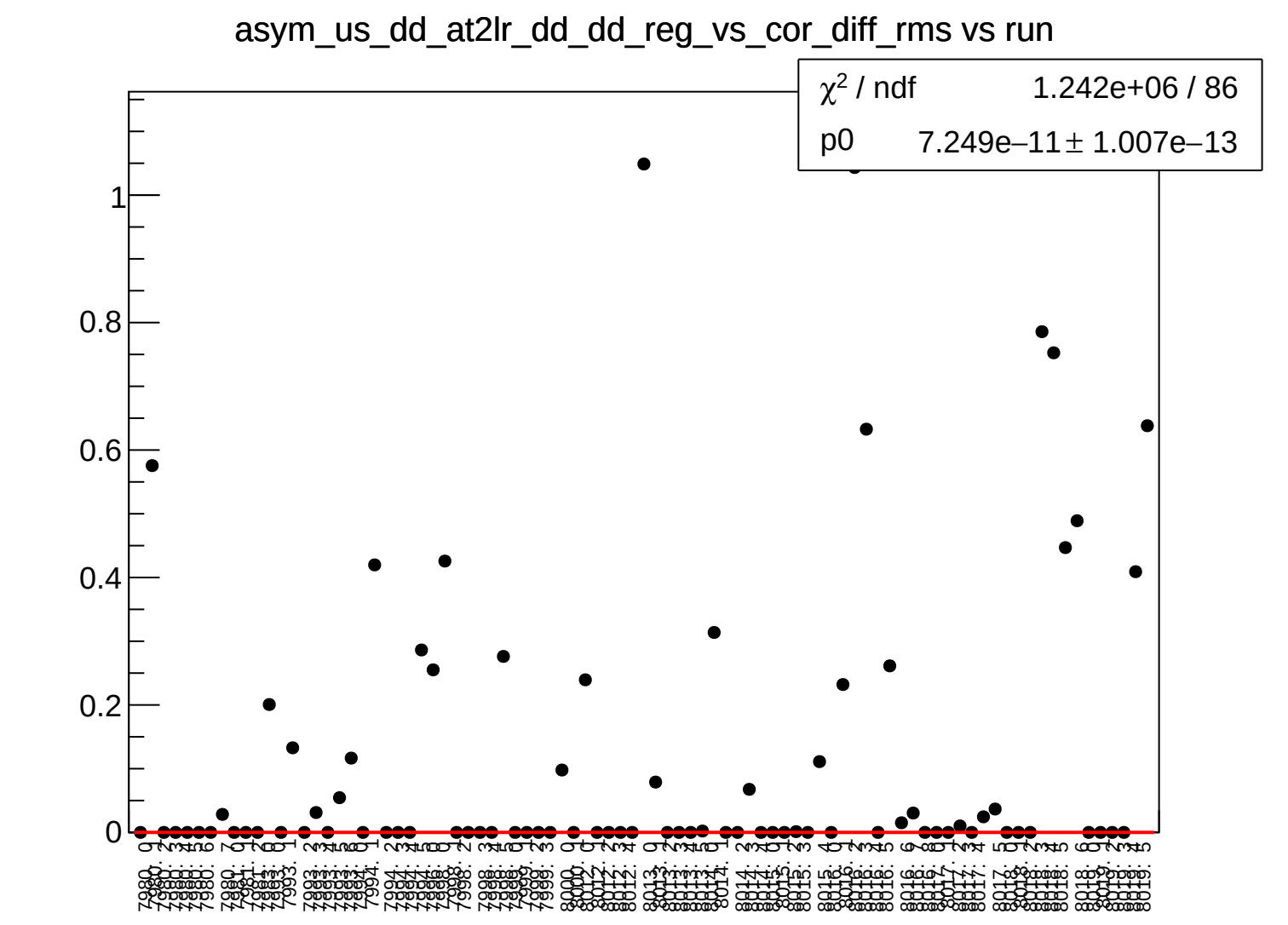

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 108.1 / 86
p0 3304 ± 2269
pull
Entries 87
Mean 241.8
Std Dev 0

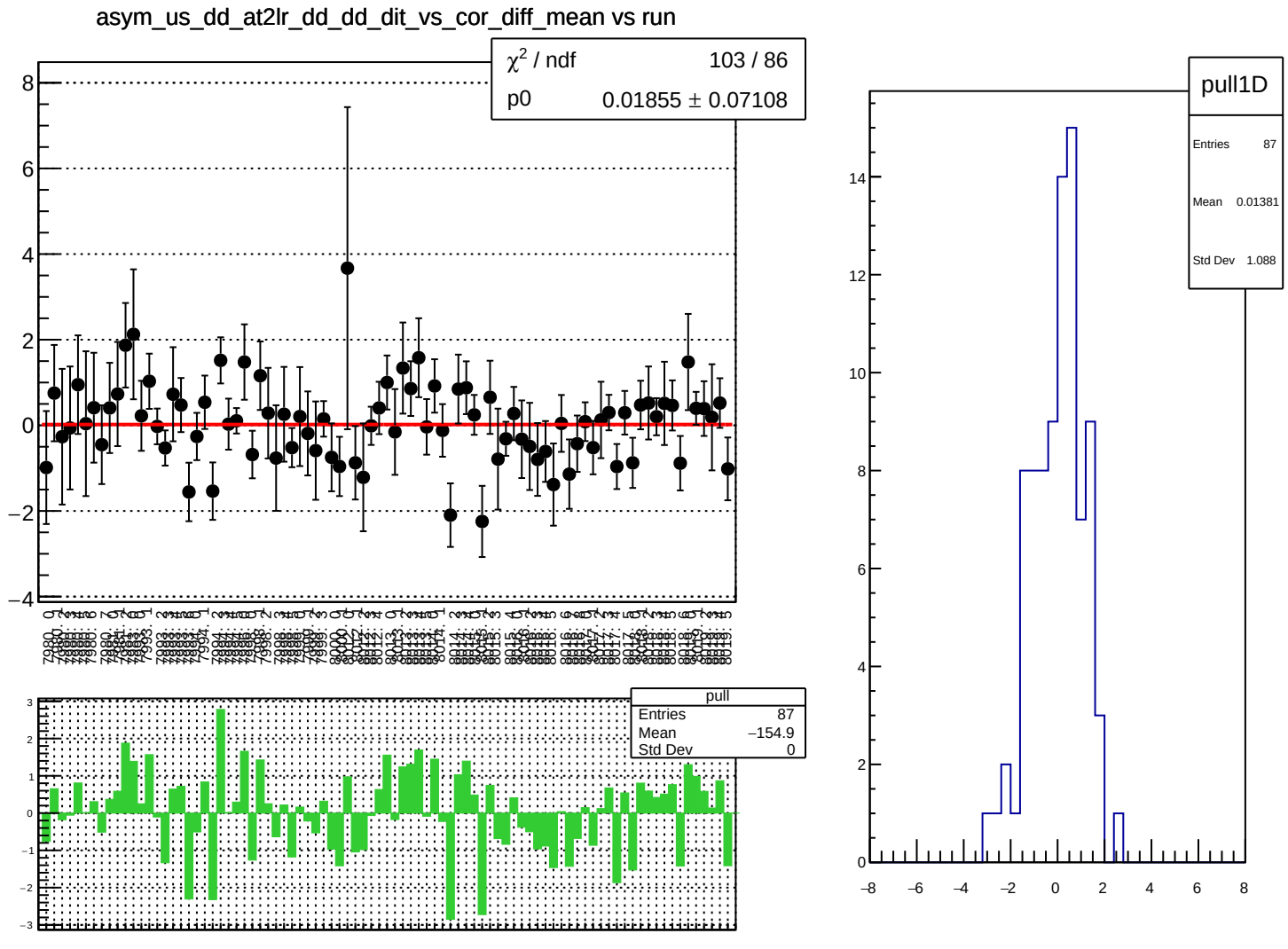

pull1D
Entries 87
Mean 0.01979
Std Dev 1.114

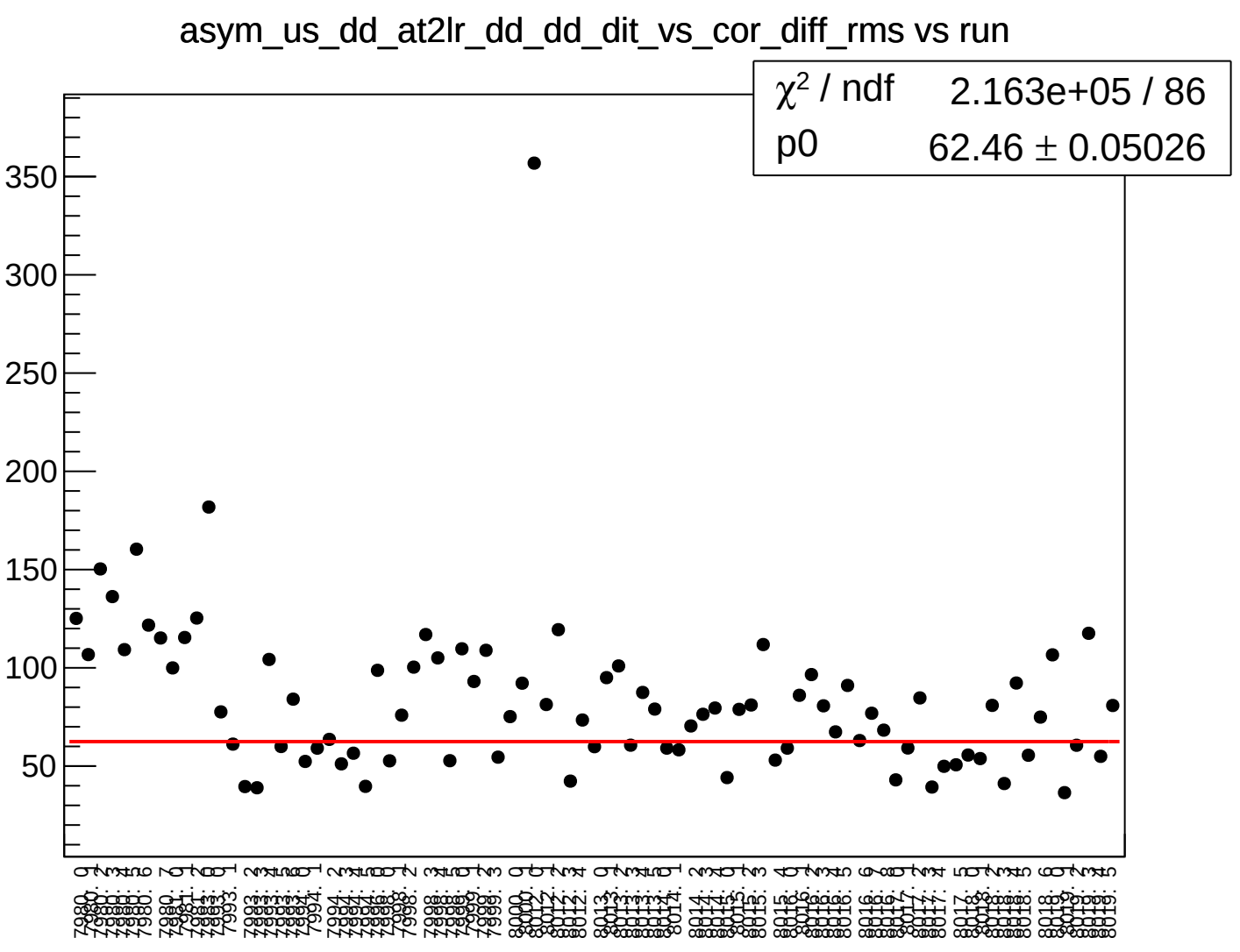

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2109 / 86
p0 2127 ± 1.604
2400
2300
2200
2100
2000
1900
1800

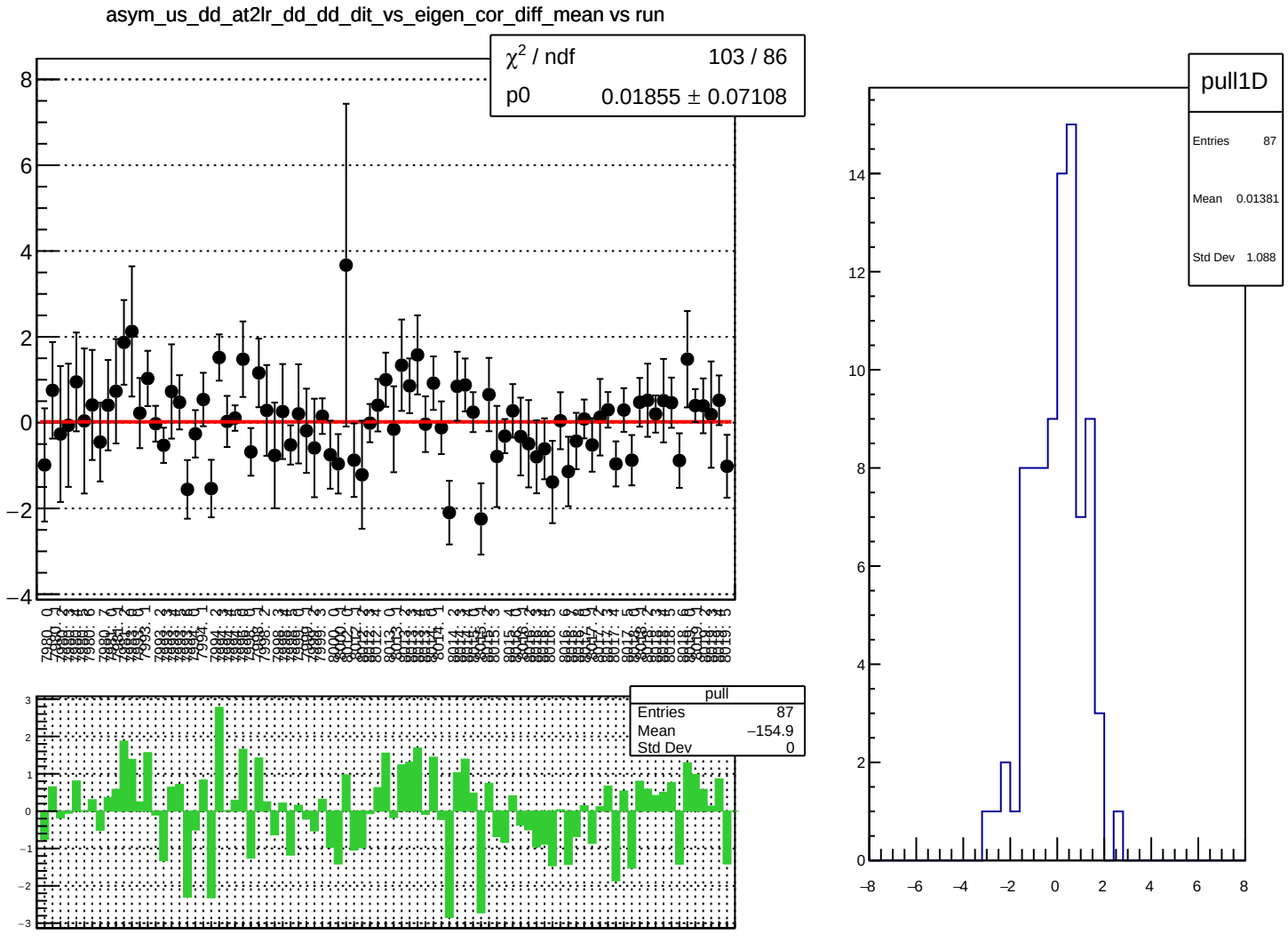

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.28 / 86
p0 −1.243e−13 ± 1.424e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 71.15
Std Dev 0
2
1
0
−1
−2

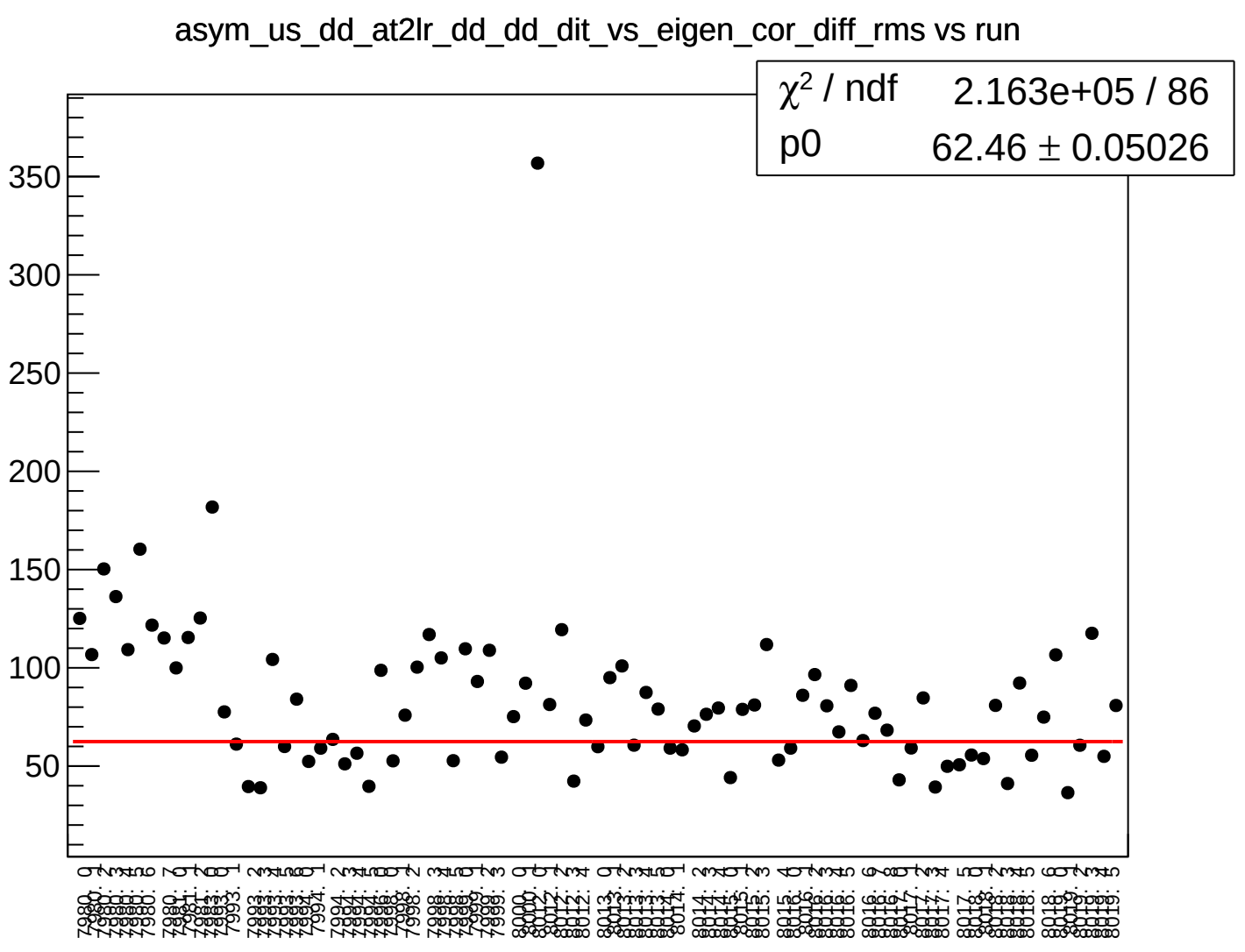

pull1D
Entries 87
Mean −0.0332
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

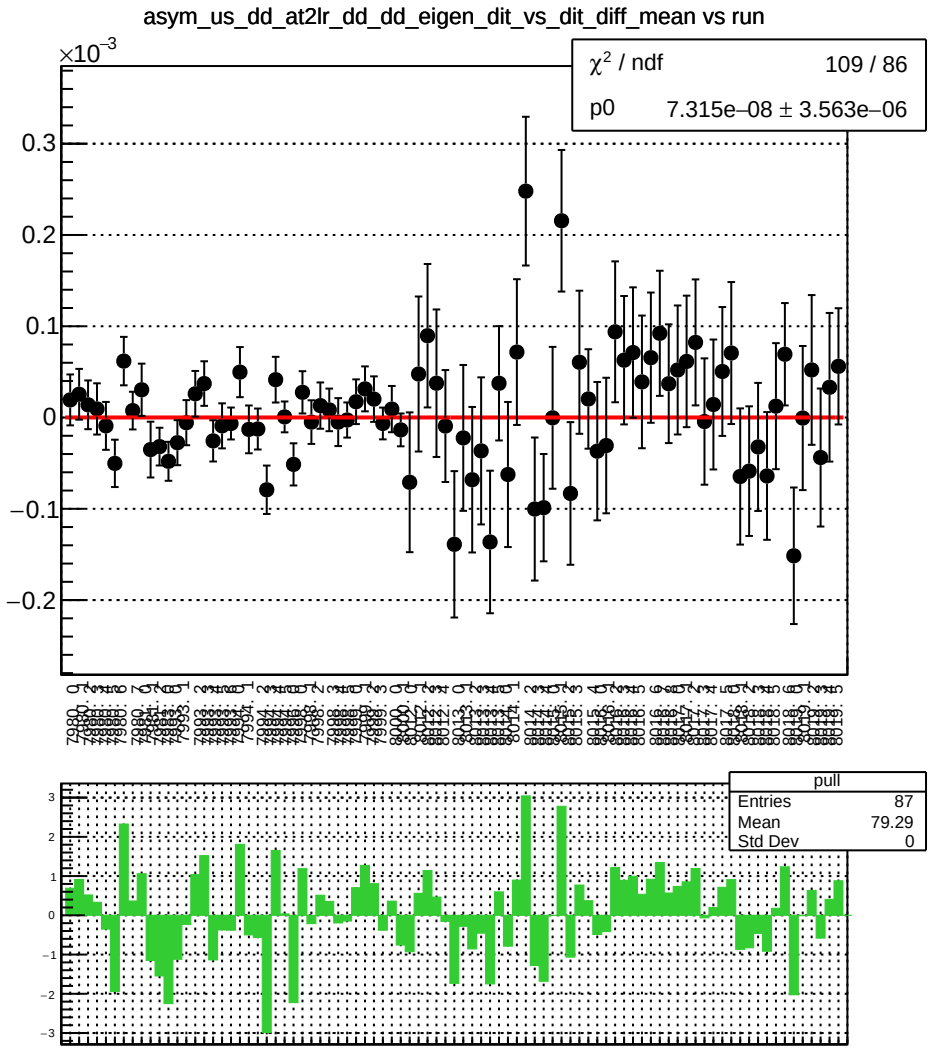

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.242e+06 / 86
p0 7.249e−11 ± 1.007e−13
1
0.8
0.6
0.4
0.2
0

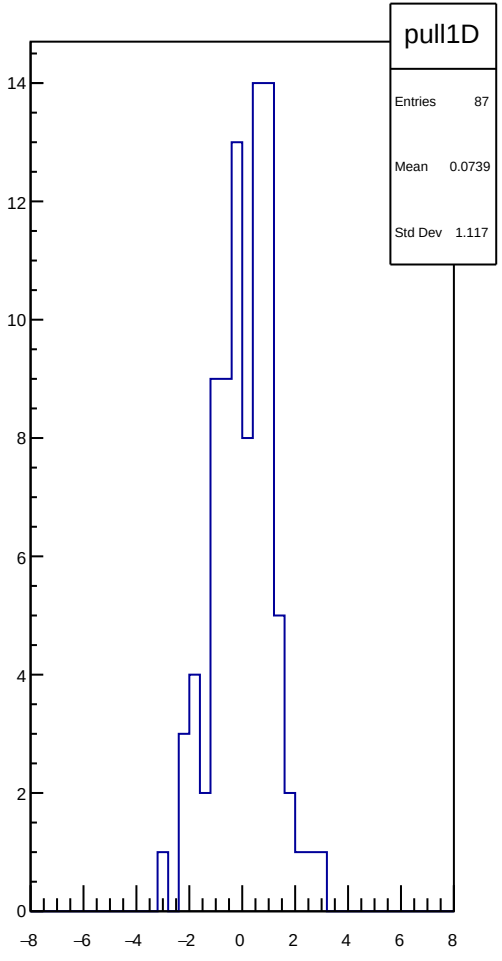

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103 / 86
p0 0.01855 ± 0.07108
pull
Entries 87
Mean −154.9
Std Dev 0
pull1D
Entries 87
Mean 0.01381
Std Dev 1.088

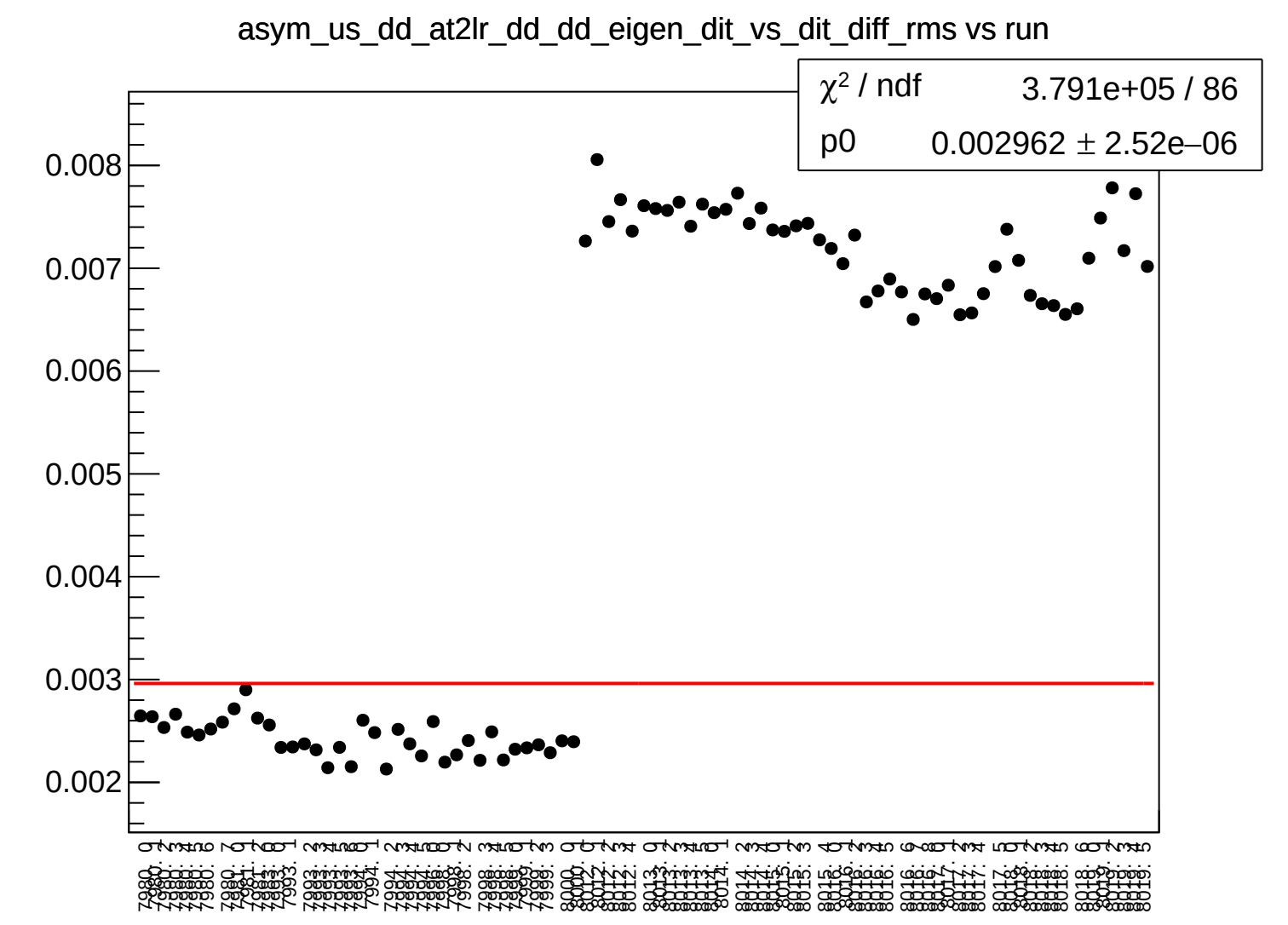

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.163e+05 / 86
p0 62.46 ± 0.05026
350
300
250
200
150
100
50

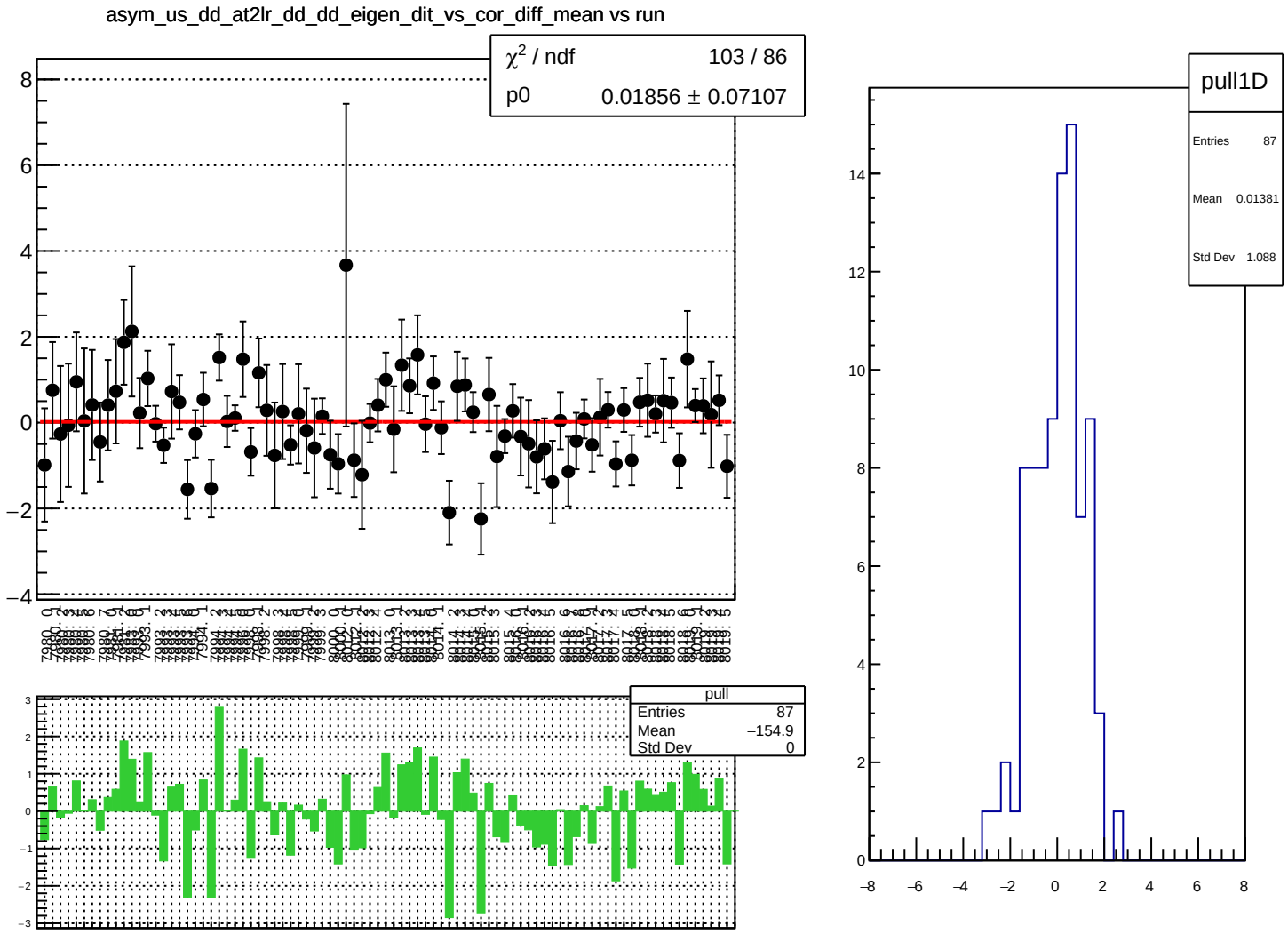

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103 / 86
p0 0.01855 ± 0.07108
pull
Entries 87
Mean −154.9
Std Dev 0
pull1D
Entries 87
Mean 0.01381
Std Dev 1.088

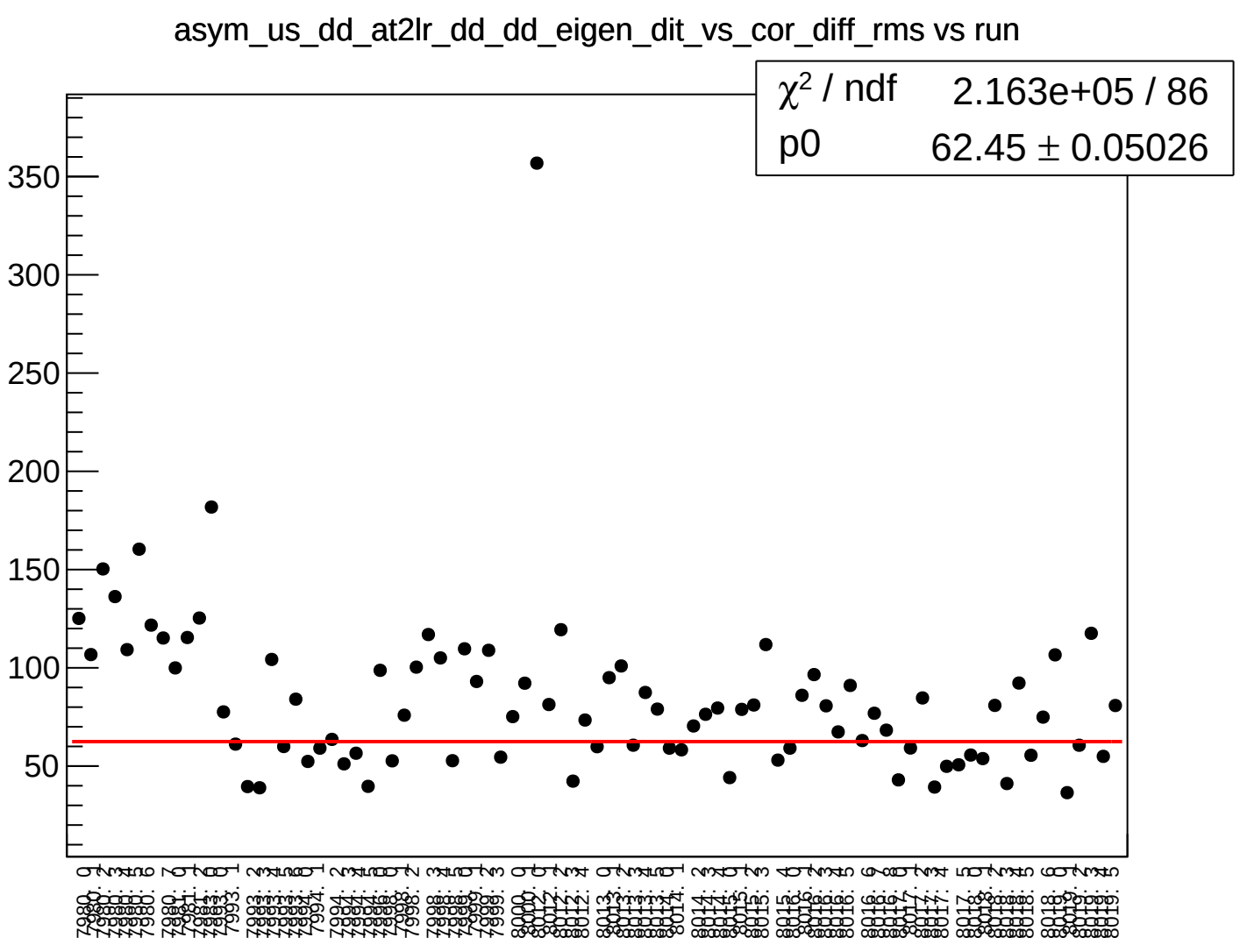

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.163e+05 / 86
p0 62.46 ± 0.05026
350
300
250
200
150
100
50

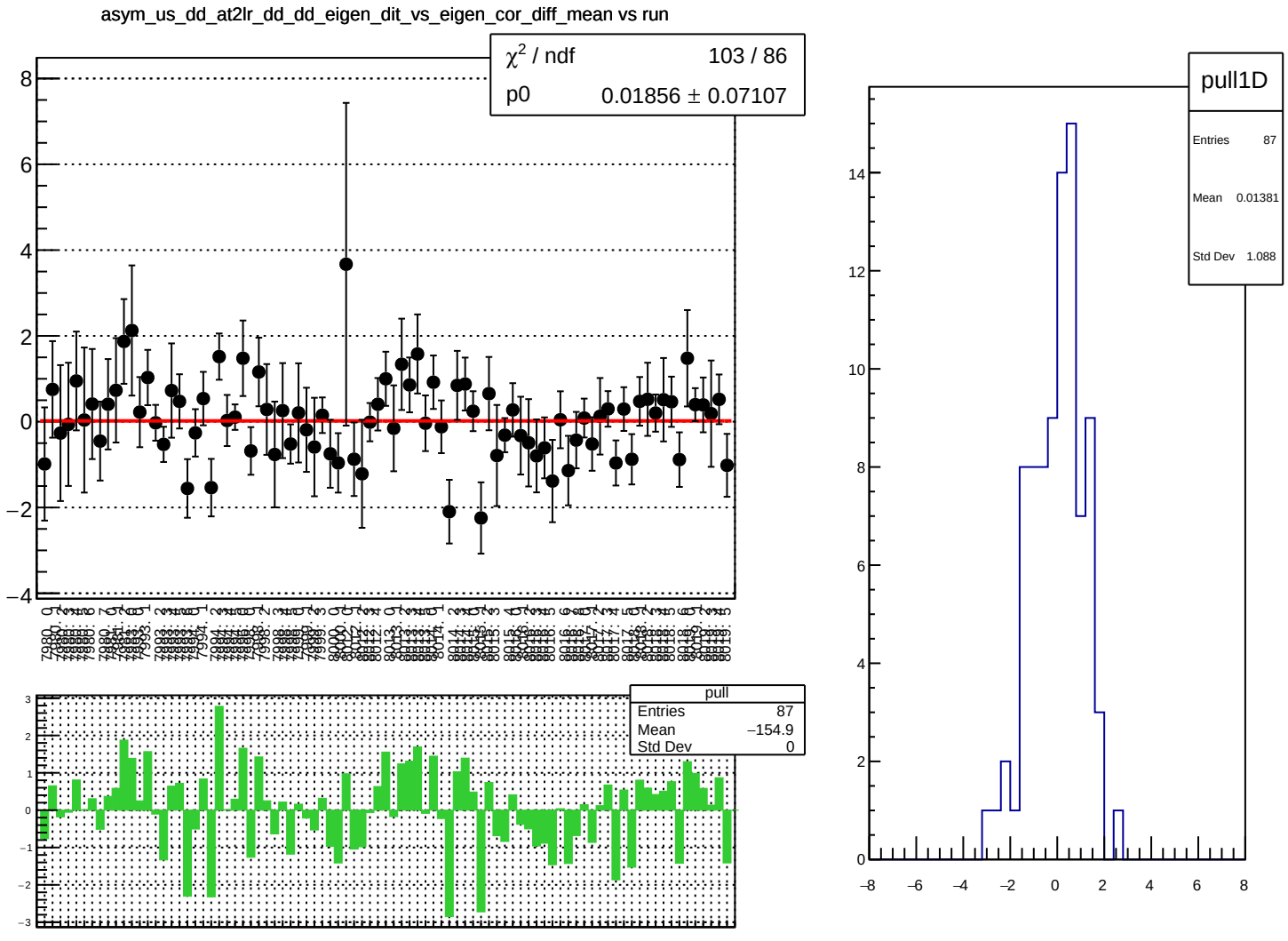

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109 / 86
p0 7.315e−08 ± 3.563e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 87
Mean 79.29
Std Dev 0
3
2
1
0
−1
−2
−3

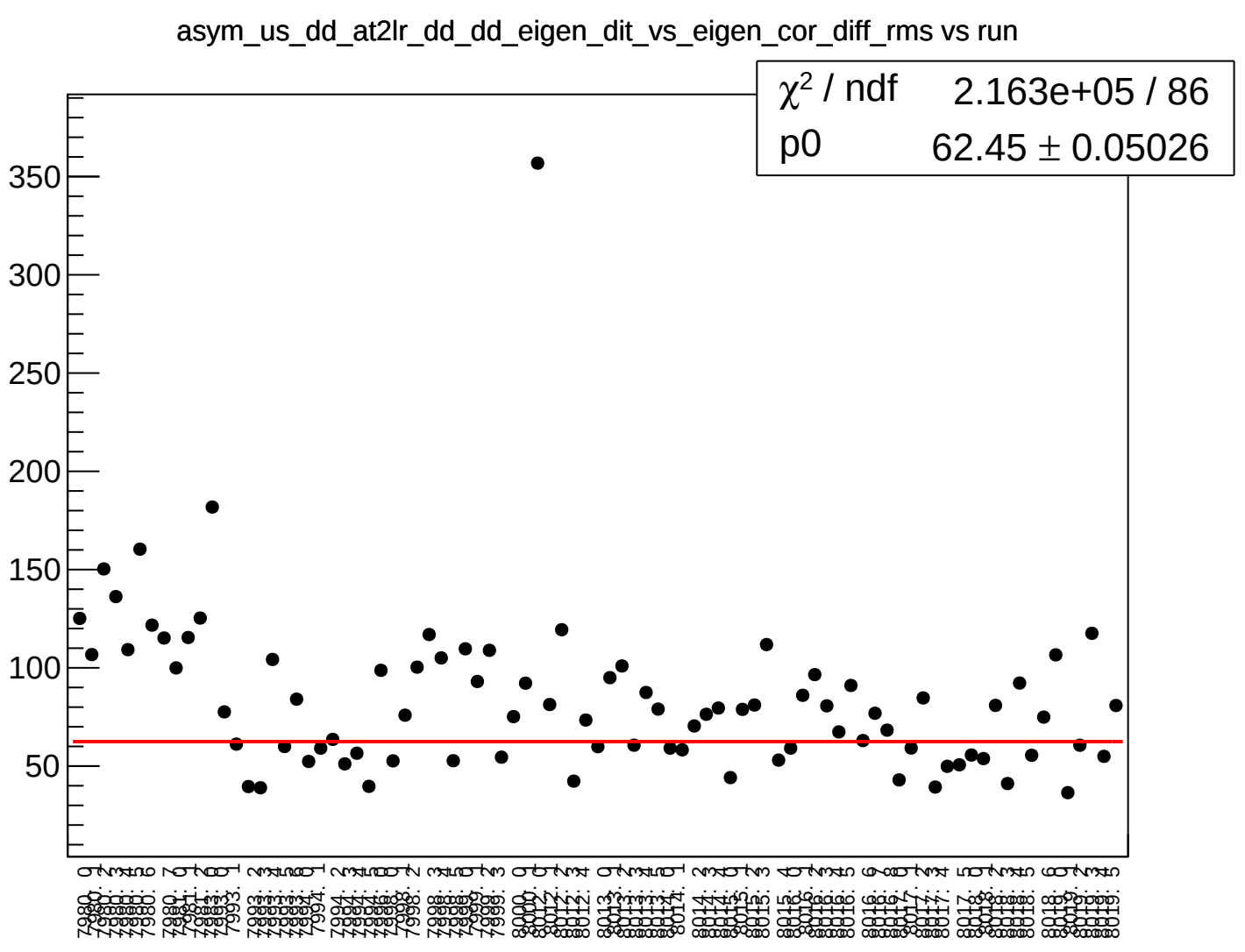

pull1D
Entries 87
Mean 0.0739
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

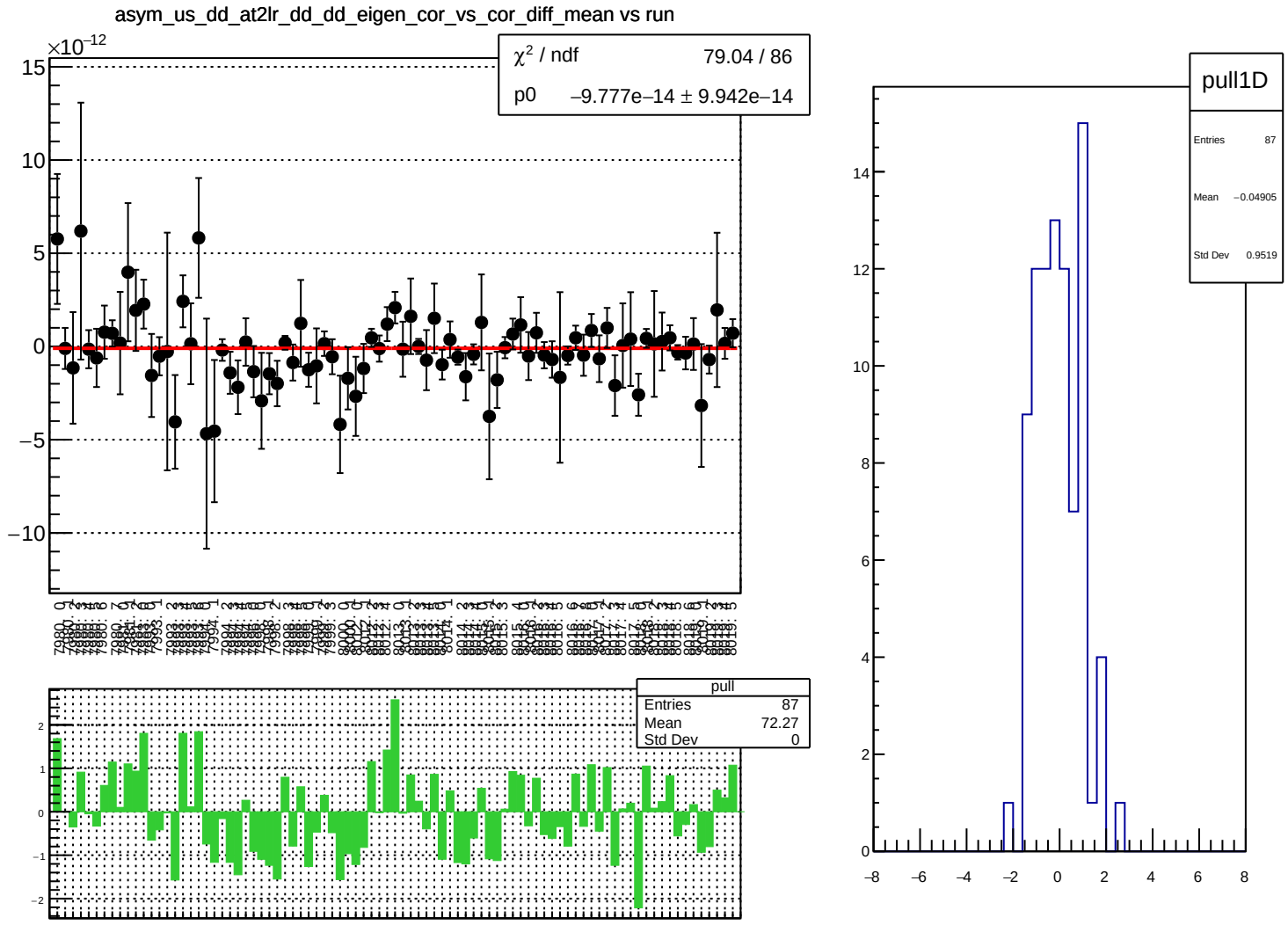

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.791e+05 / 86
p0 0.002962 ± 2.52e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

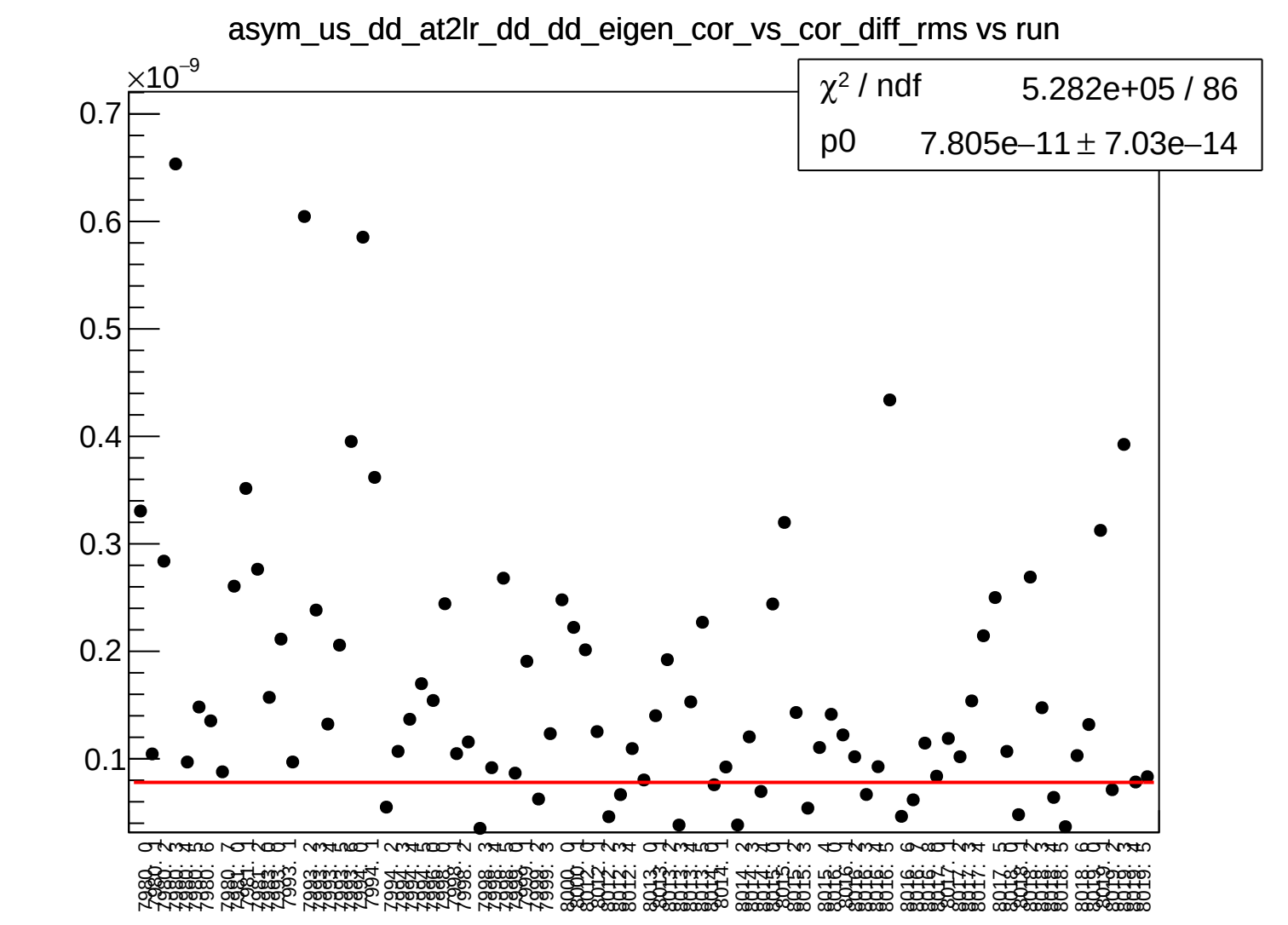

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103 / 86
p0 0.01856 ± 0.07107
pull
Entries 87
Mean −154.9
Std Dev 0
pull1D
Entries 87
Mean 0.01381
Std Dev 1.088

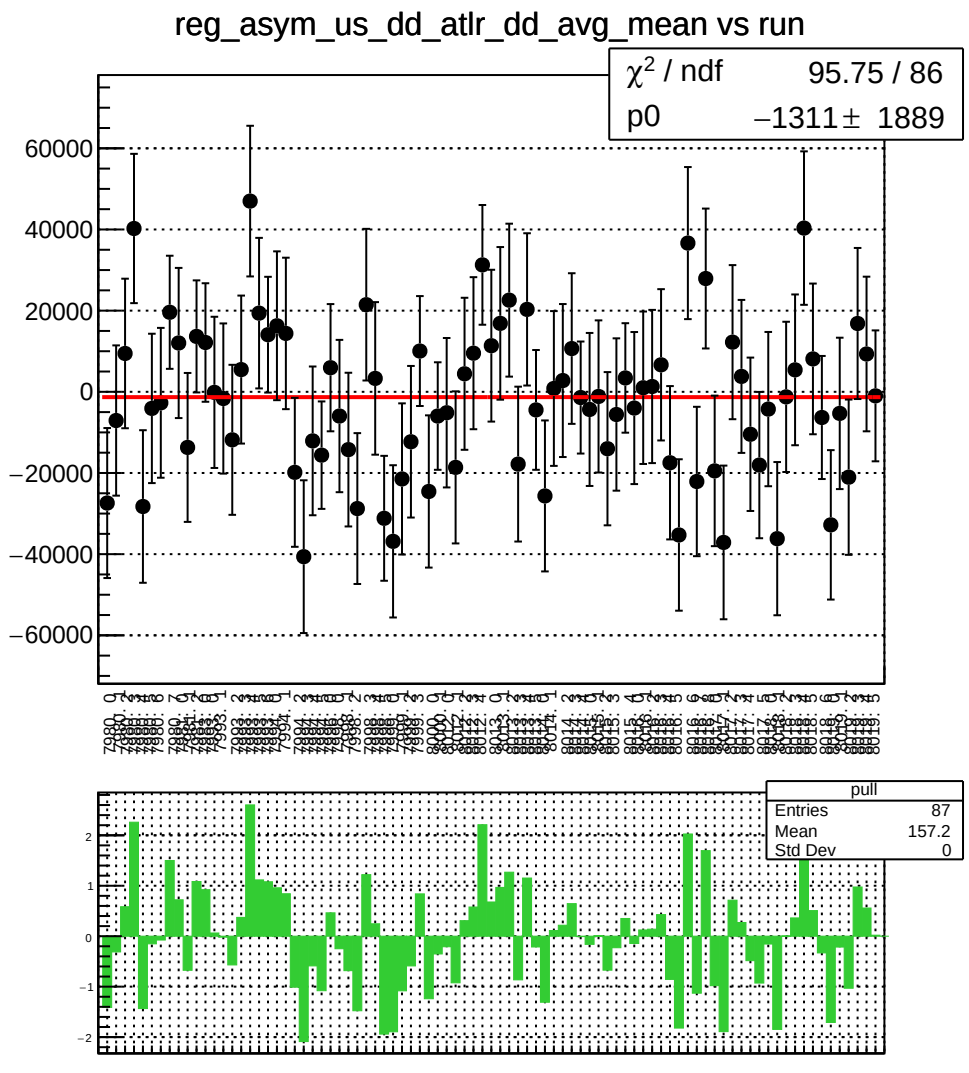

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.163e+05 / 86
p0 62.45 ± 0.05026
350
300
250
200
150
100
50

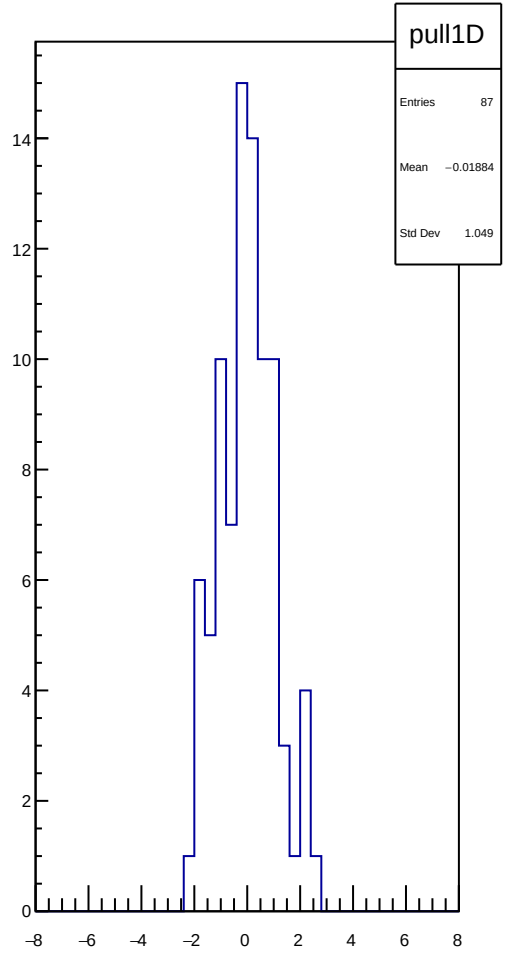

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103 / 86
p0 0.01856 ± 0.07107
pull
Entries 87
Mean −154.9
Std Dev 0
pull1D
Entries 87
Mean 0.01381
Std Dev 1.088

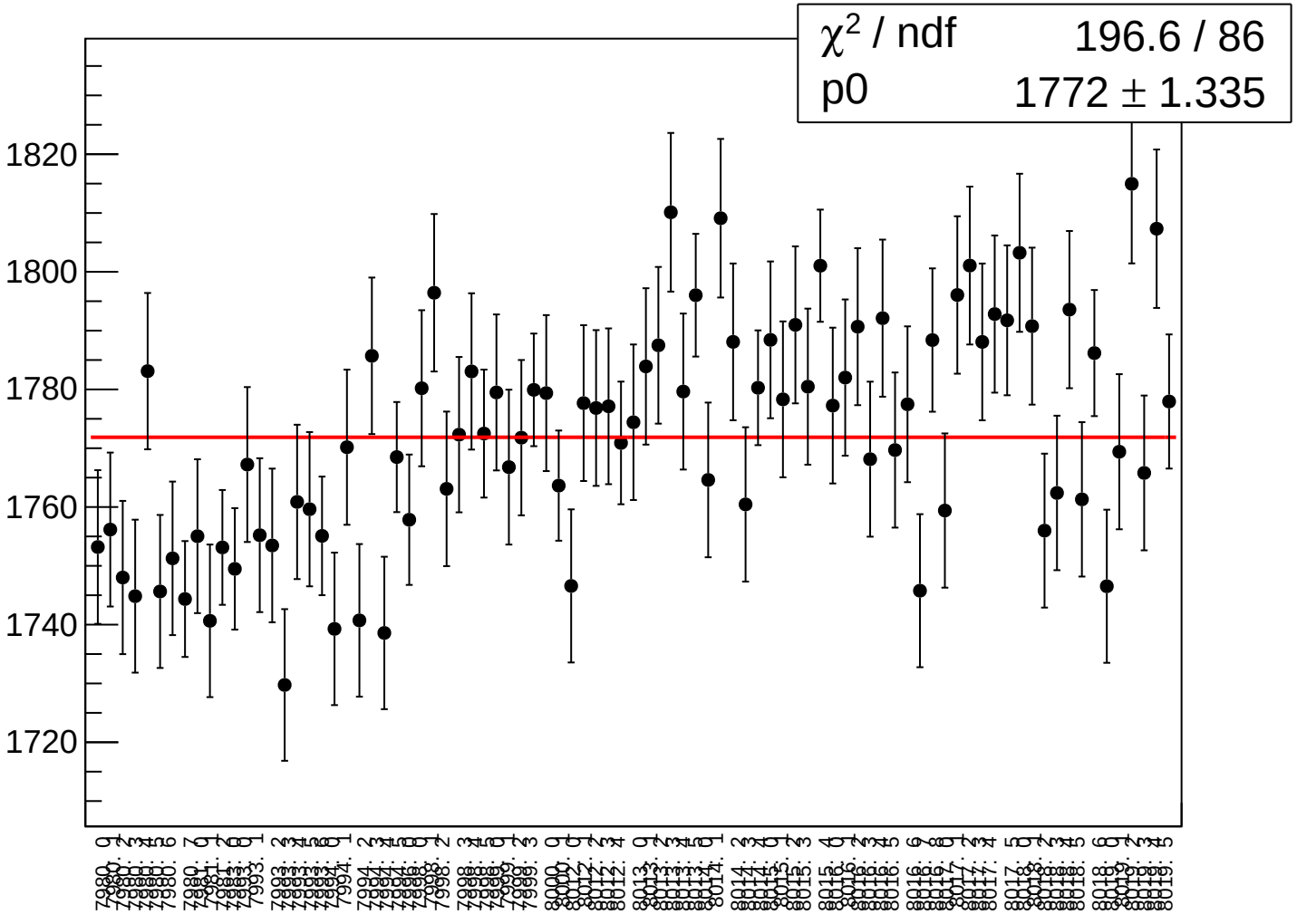

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.163e+05 / 86
p0 62.45 ± 0.05026
350
300
250
200
150
100
50

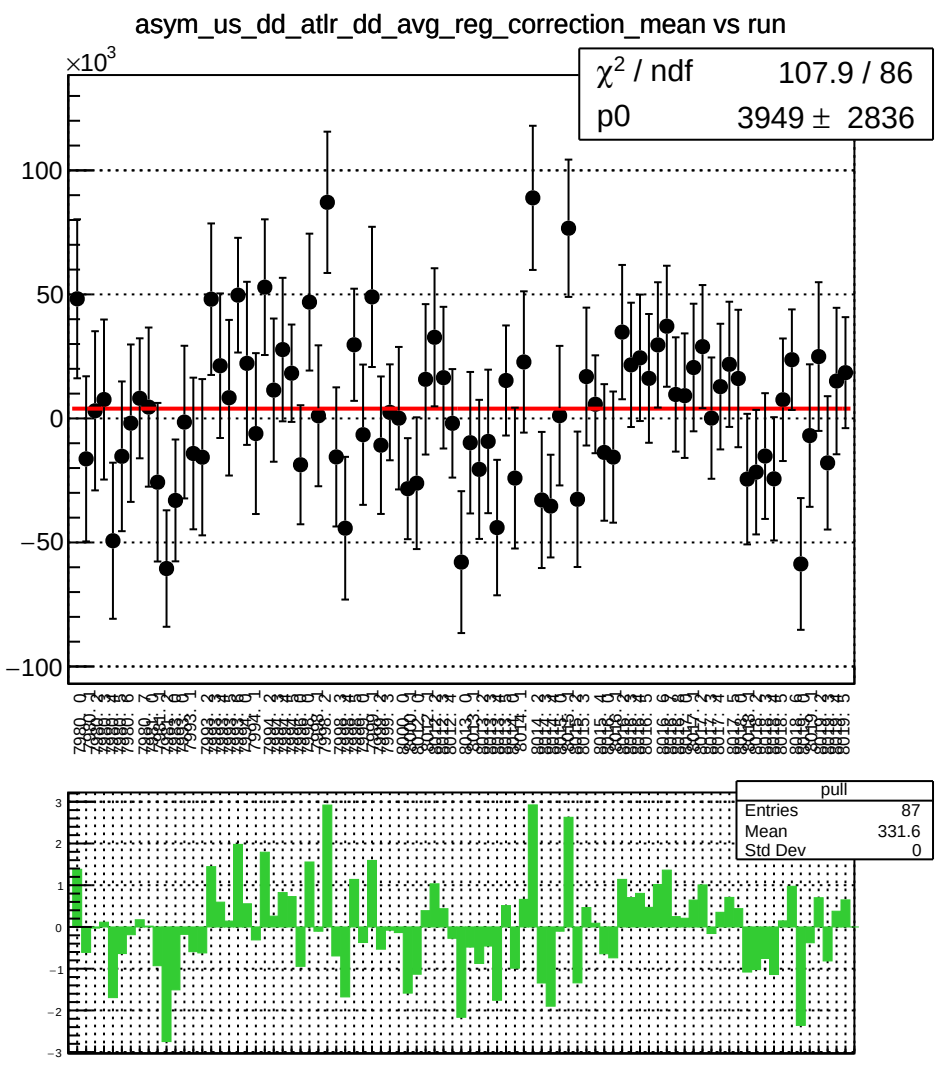

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.04 / 86
p0 −9.777e−14 ± 9.942e−14
pull
Entries 87
Mean 72.27
Std Dev 0
pull1D
Entries 87
Mean −0.04905
Std Dev 0.9519

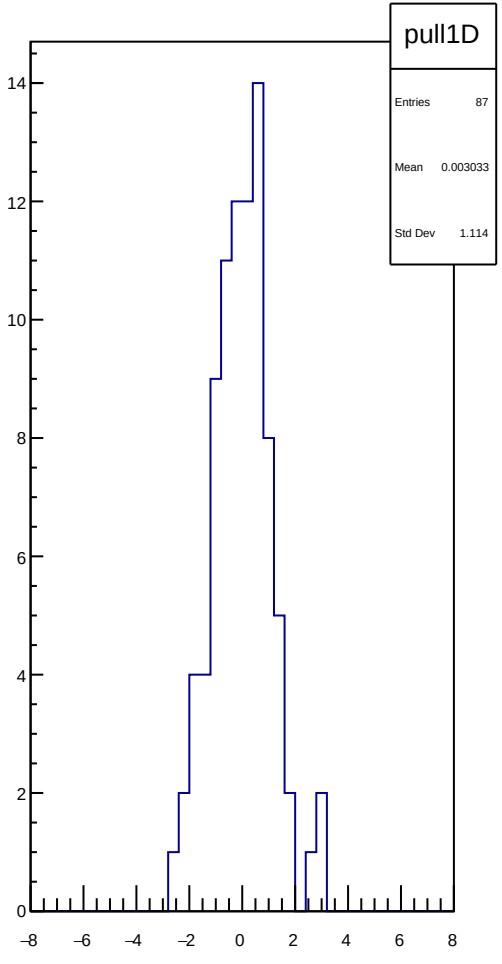

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.282e+05 / 86
p0 7.805e−11 ± 7.03e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

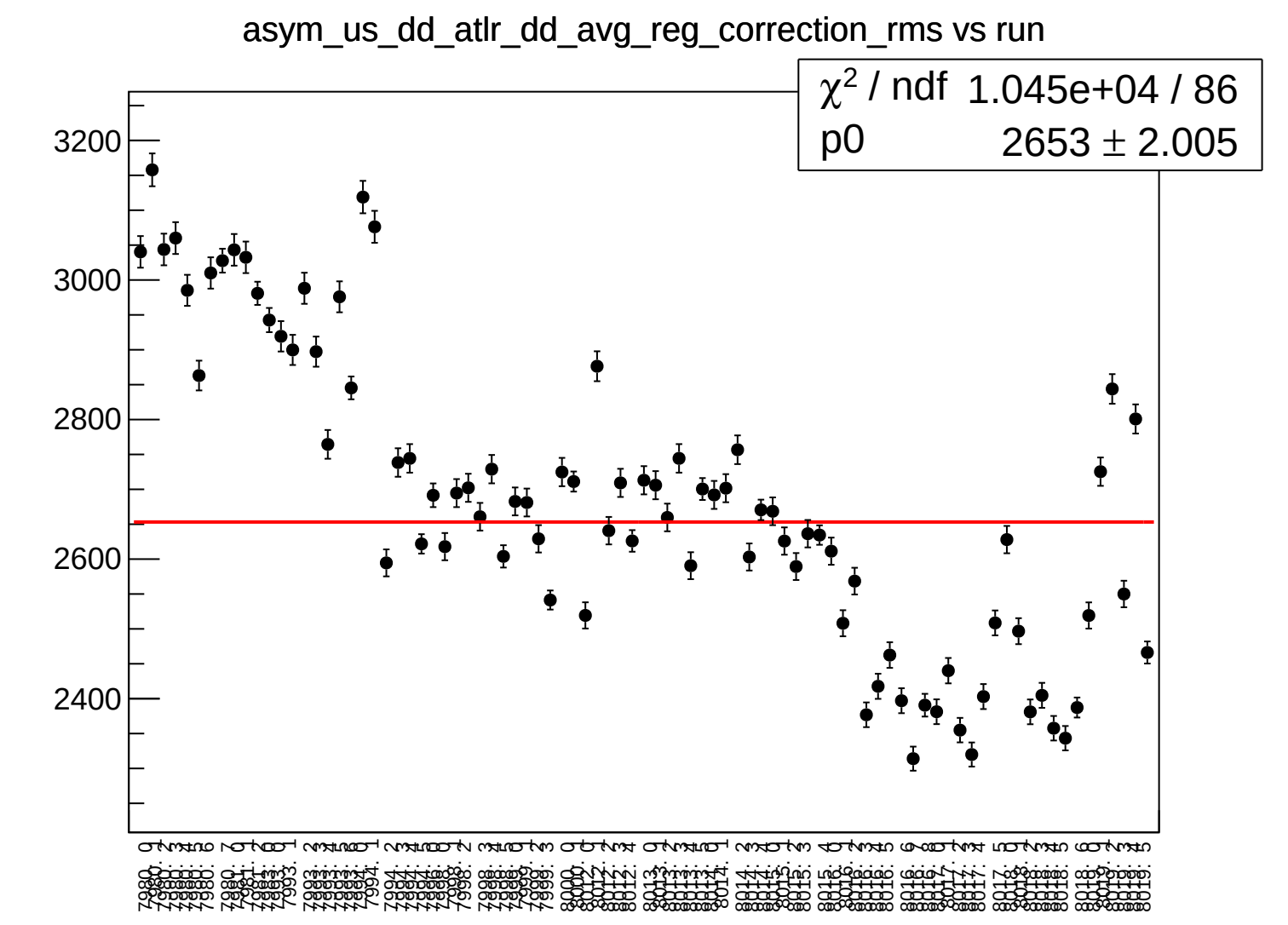

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 95.75 / 86
p0 −1311 ± 1889
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 157.2
Std Dev 0
2
1
0
−1
−2

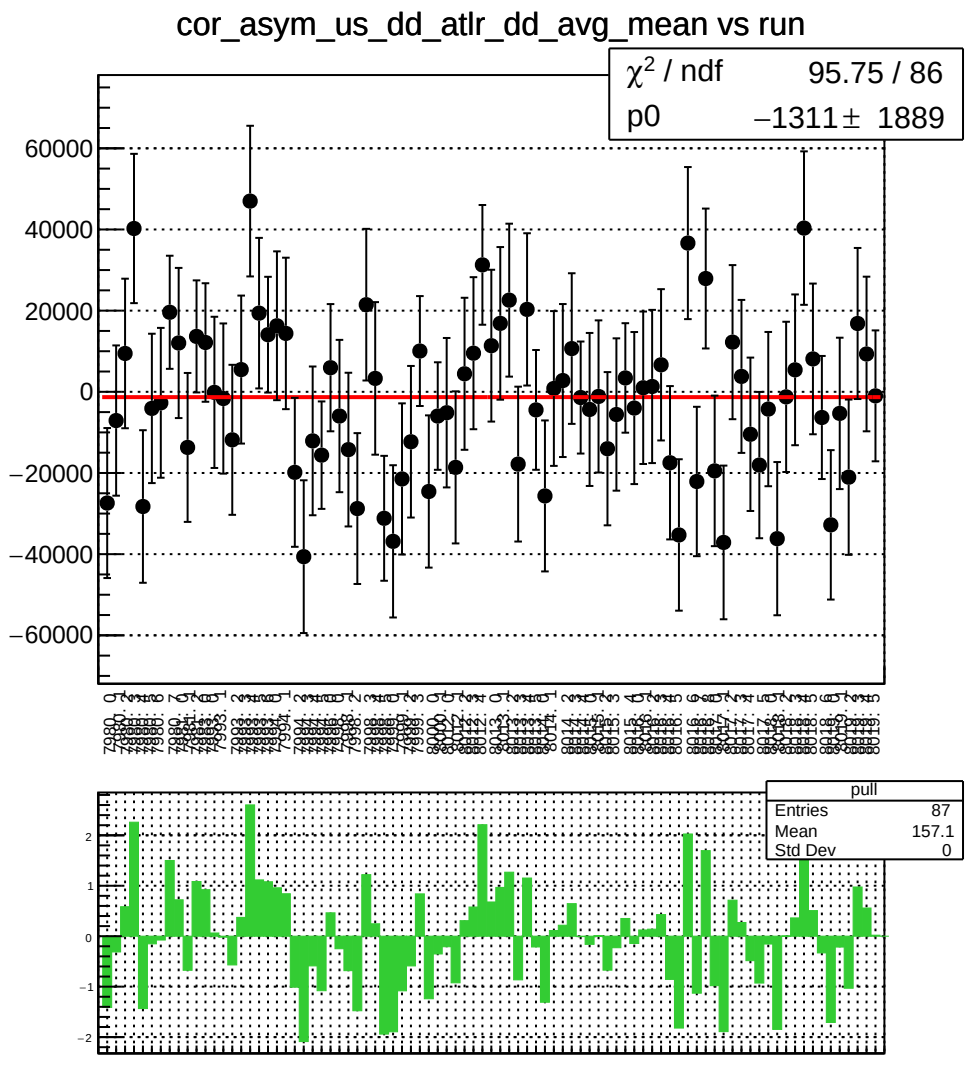

pull1D
Entries 87
Mean −0.01884
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

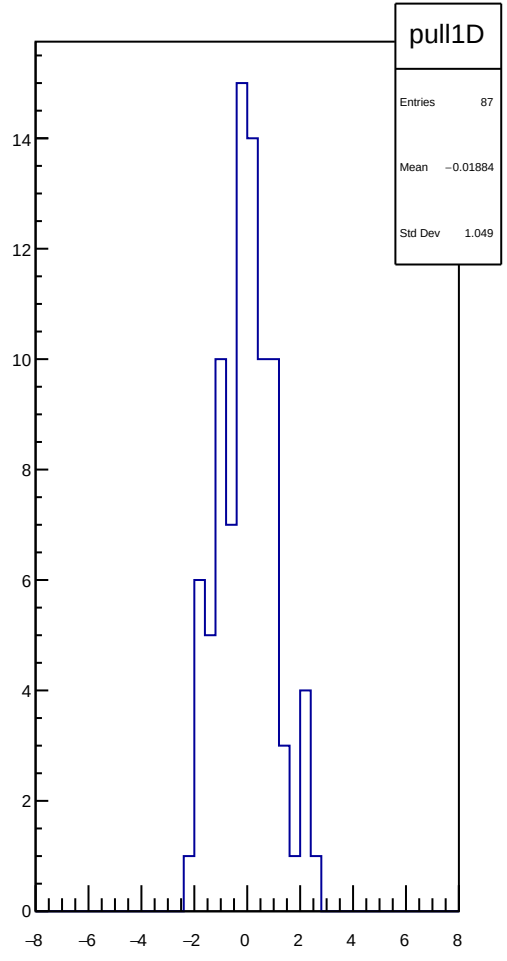

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 196.6 / 86
p0 1772 ± 1.335
1820
1800
1780
1760
1740
1720

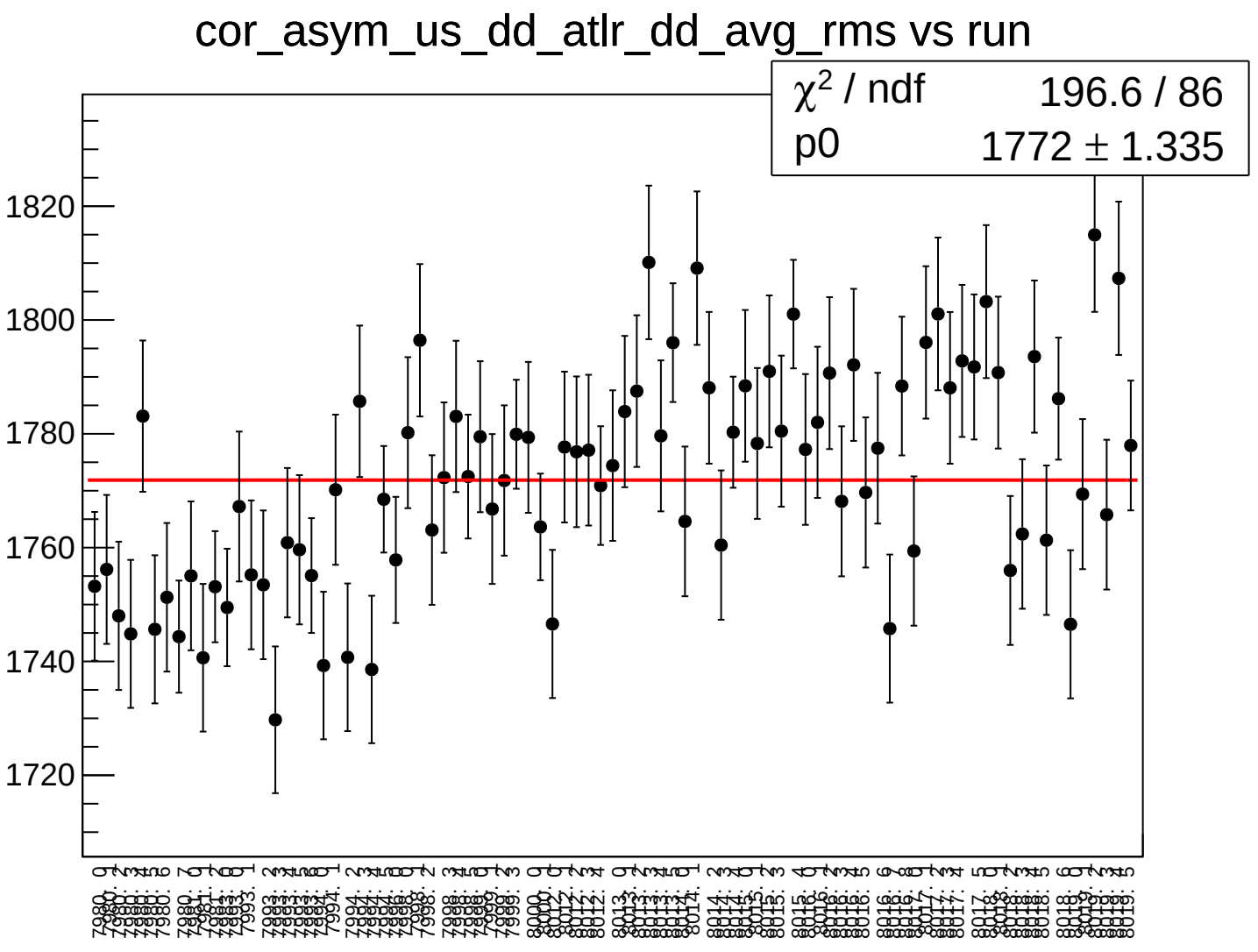

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 107.9 / 86
p0 3949 ± 2836
100
50
0
−50
−100
pull
Entries 87
Mean 331.6
Std Dev 0
3
2
1
0
−1
−2
−3

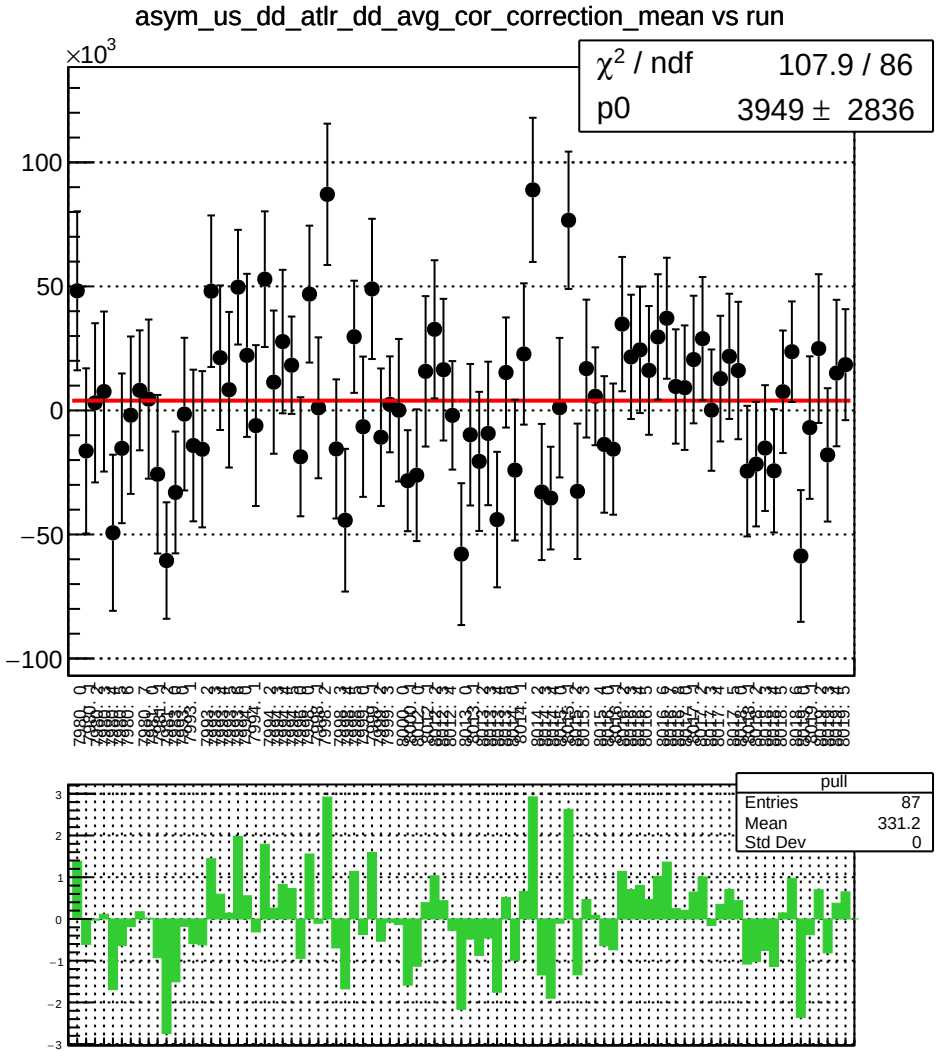

pull1D
Entries 87
Mean 0.003033
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

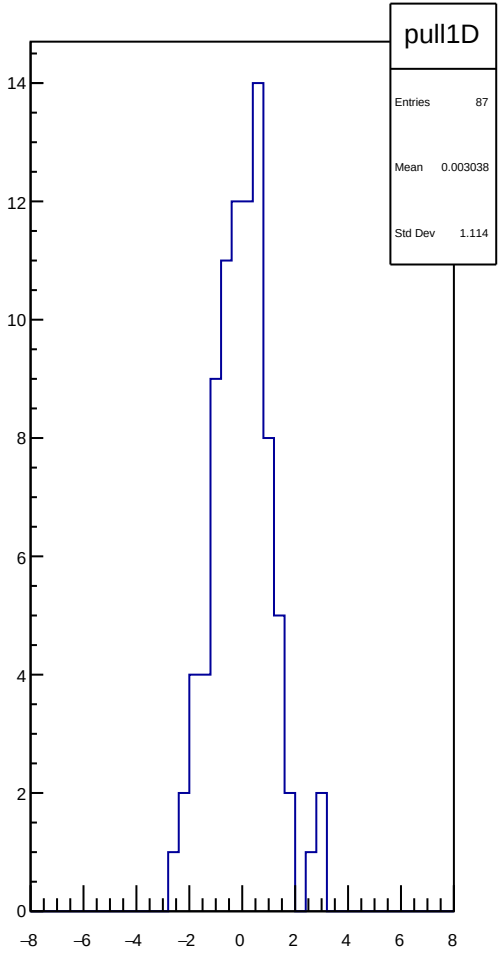

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.045e+04 / 86
p0 2653 ± 2.005
3200
3000
2800
2600
2400

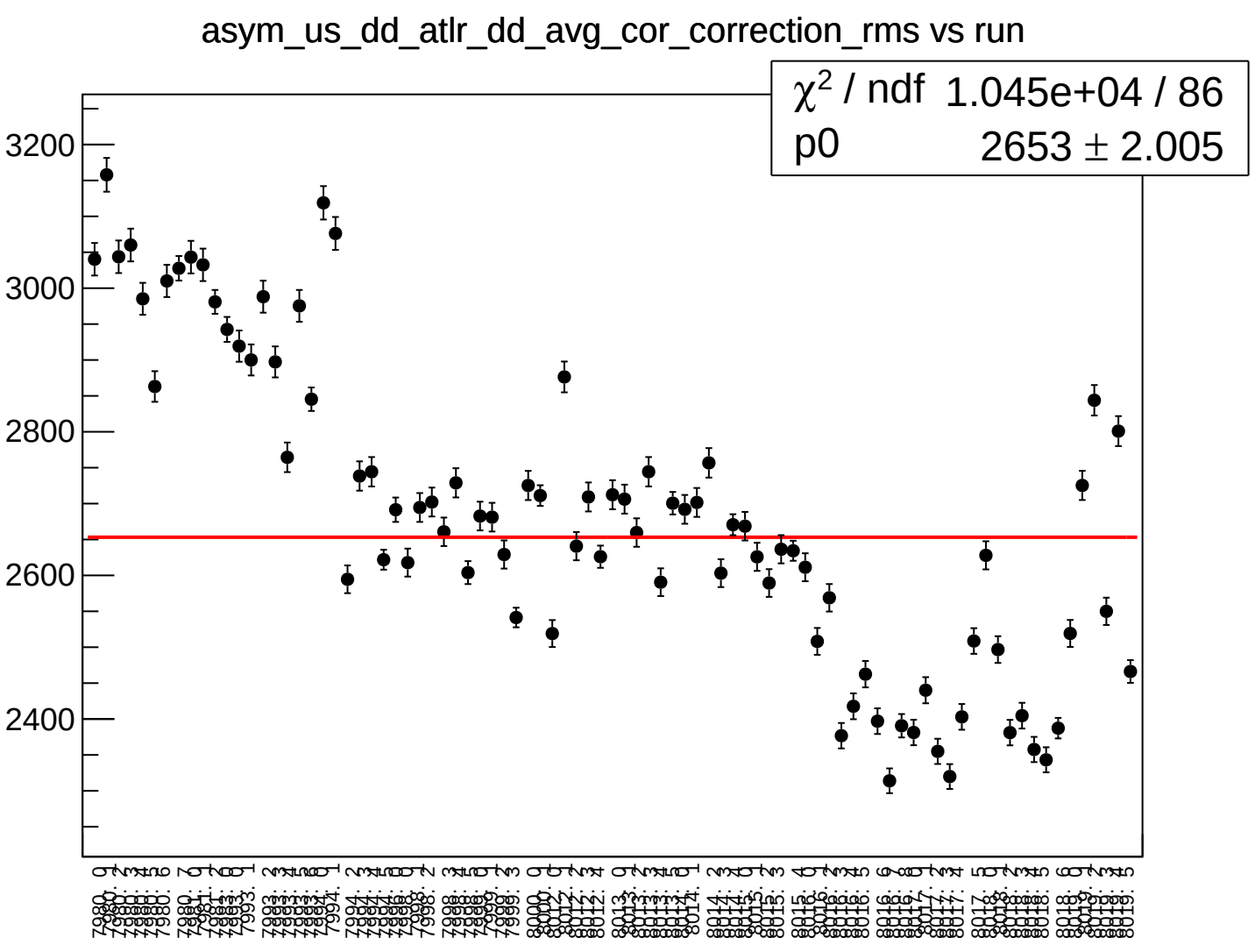

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 95.75 / 86
p0 −1311 ± 1889
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 157.1
Std Dev 0
2
1
0
−1
−2

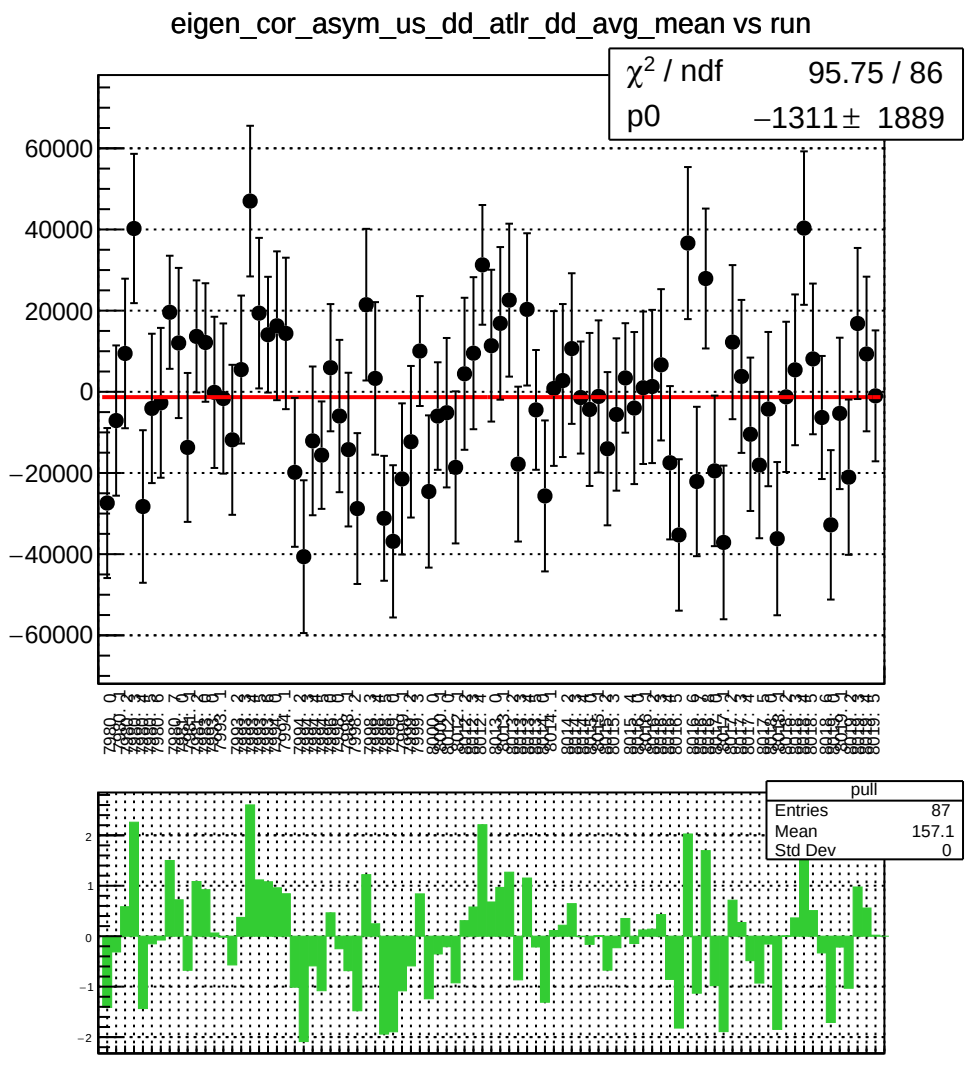

pull1D
Entries 87
Mean −0.01884
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

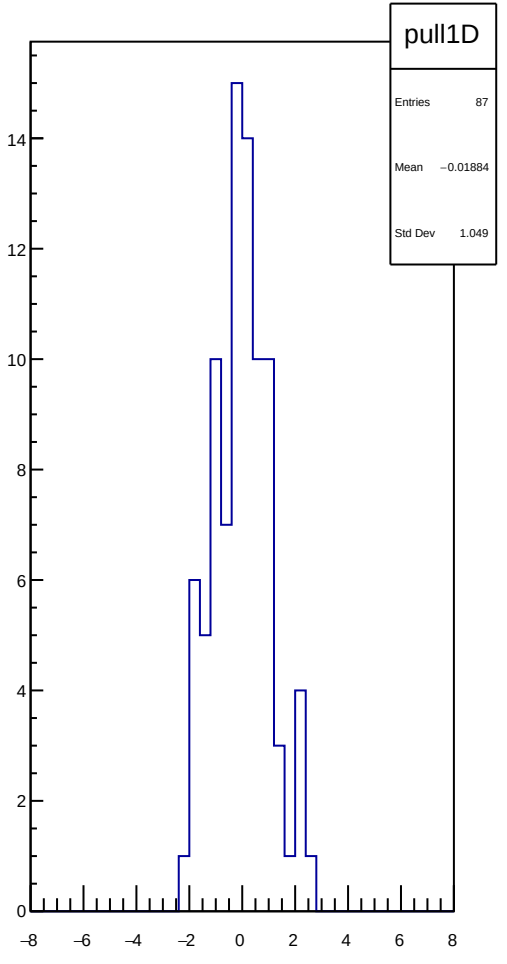

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 196.6 / 86
p0 1772 ± 1.335
1820
1800
1780
1760
1740
1720


asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 107.9 / 86
p0 3949 ± 2836
100
50
0
−50
−100
pull
Entries 87
Mean 331.2
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean 0.003038
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.045e+04 / 86
p0 2653 ± 2.005
3200
3000
2800
2600
2400


eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 95.75 / 86
p0 −1311 ± 1889
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 157.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 87
Mean −0.01884
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
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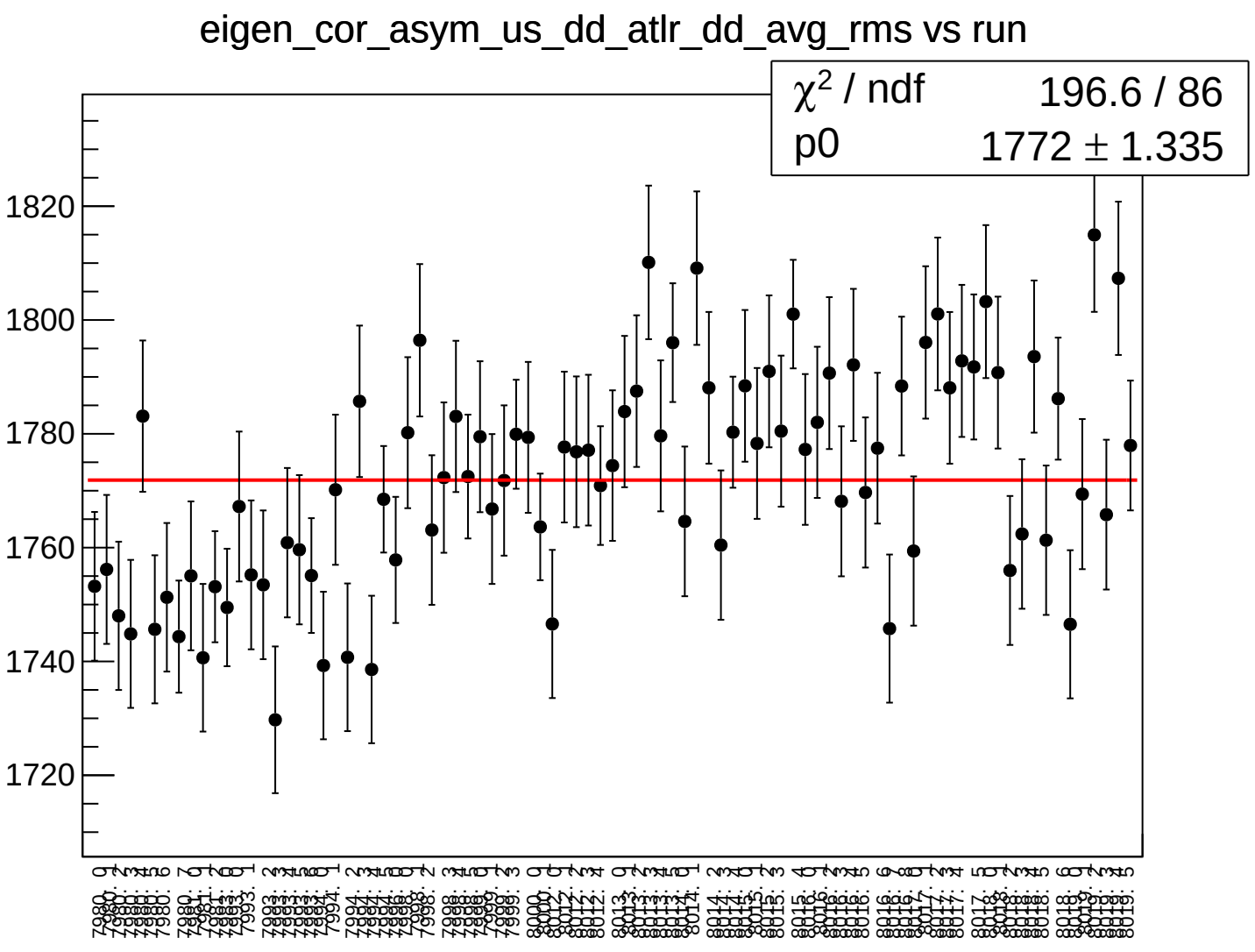
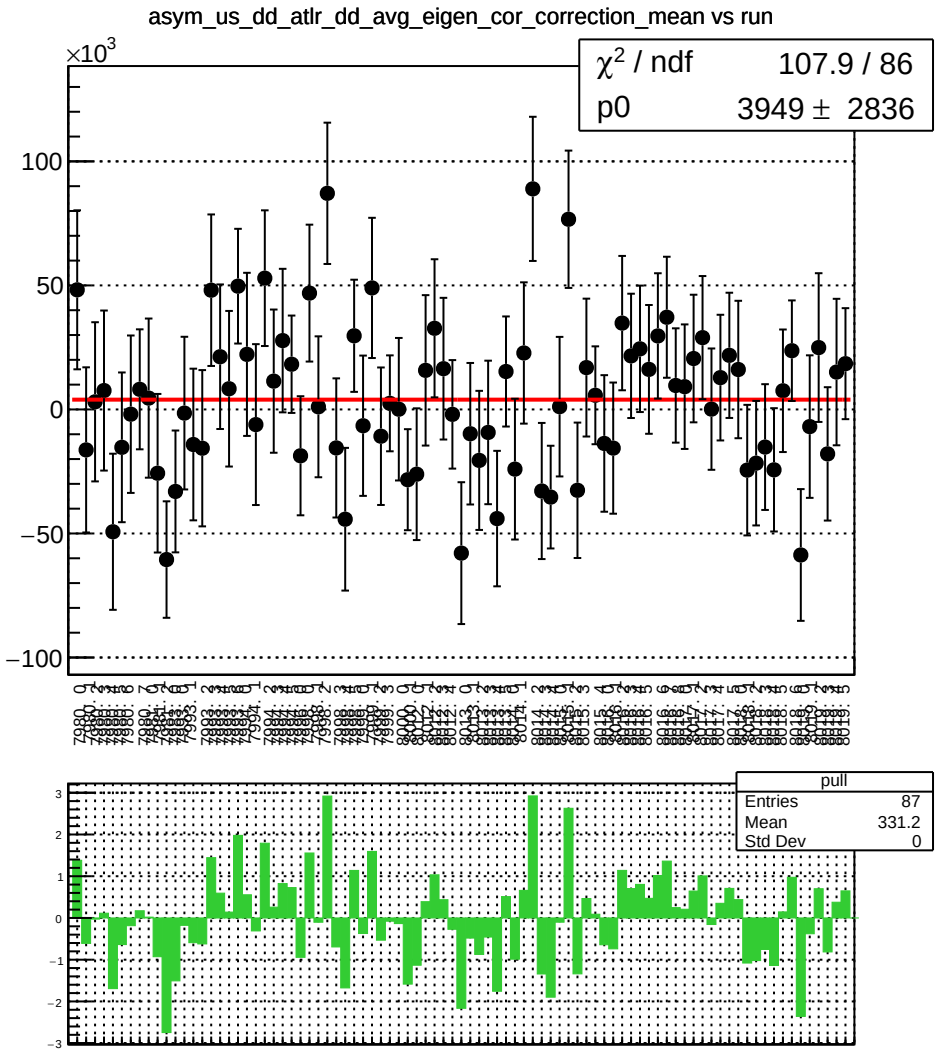
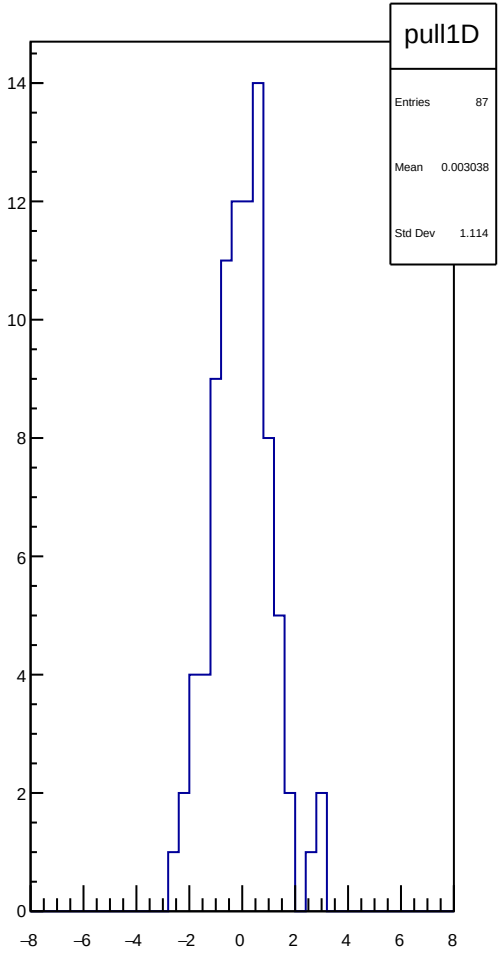
0
2
4
6
8


eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 196.6 / 86
p0 1772 ± 1.335
1820
1800
1780
1760
1740
1720


asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.9 / 86
p0 3949 ± 2836
100
50
0
−50
−100
pull
Entries 87
Mean 331.2
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean 0.003038
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
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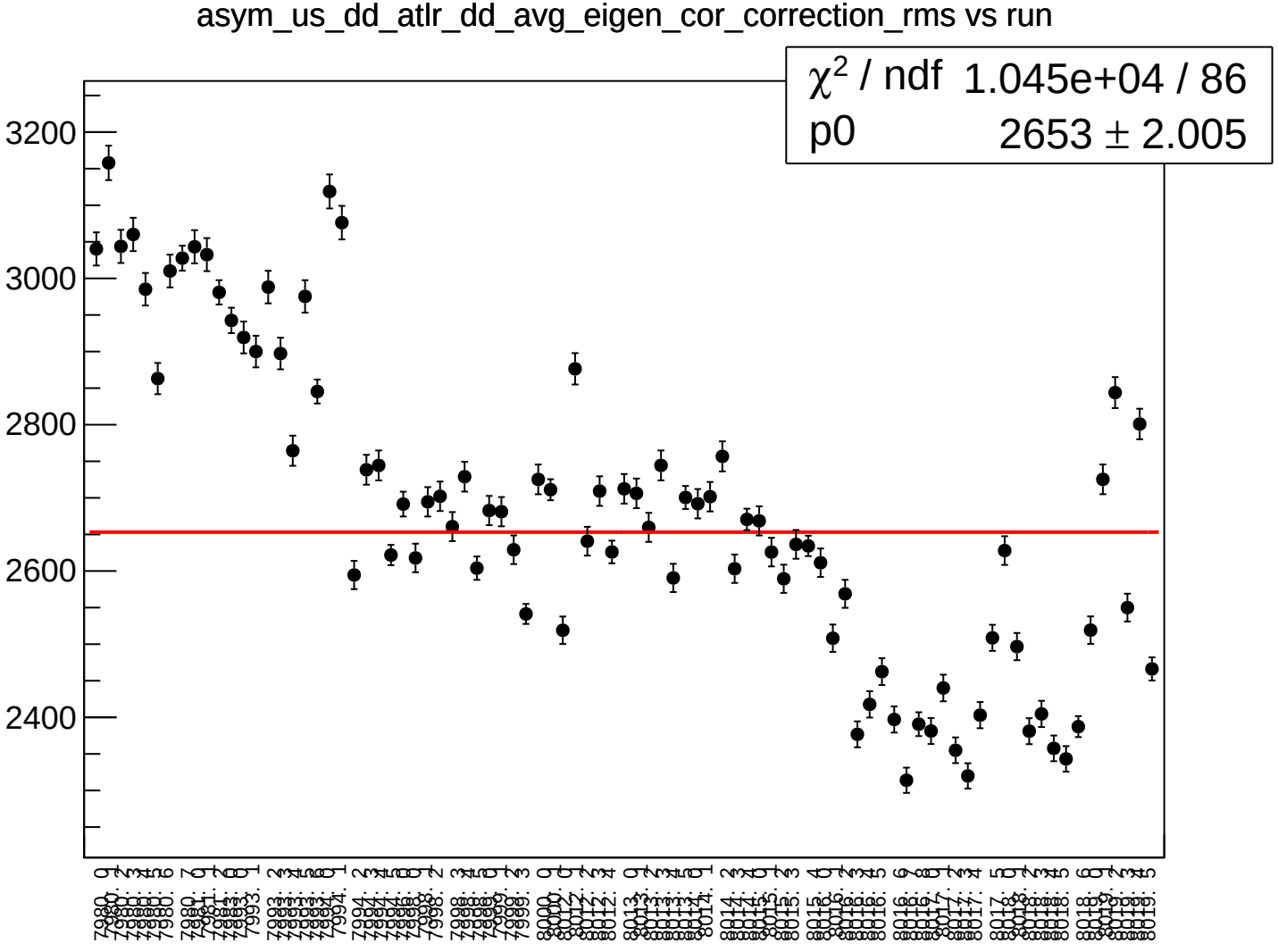
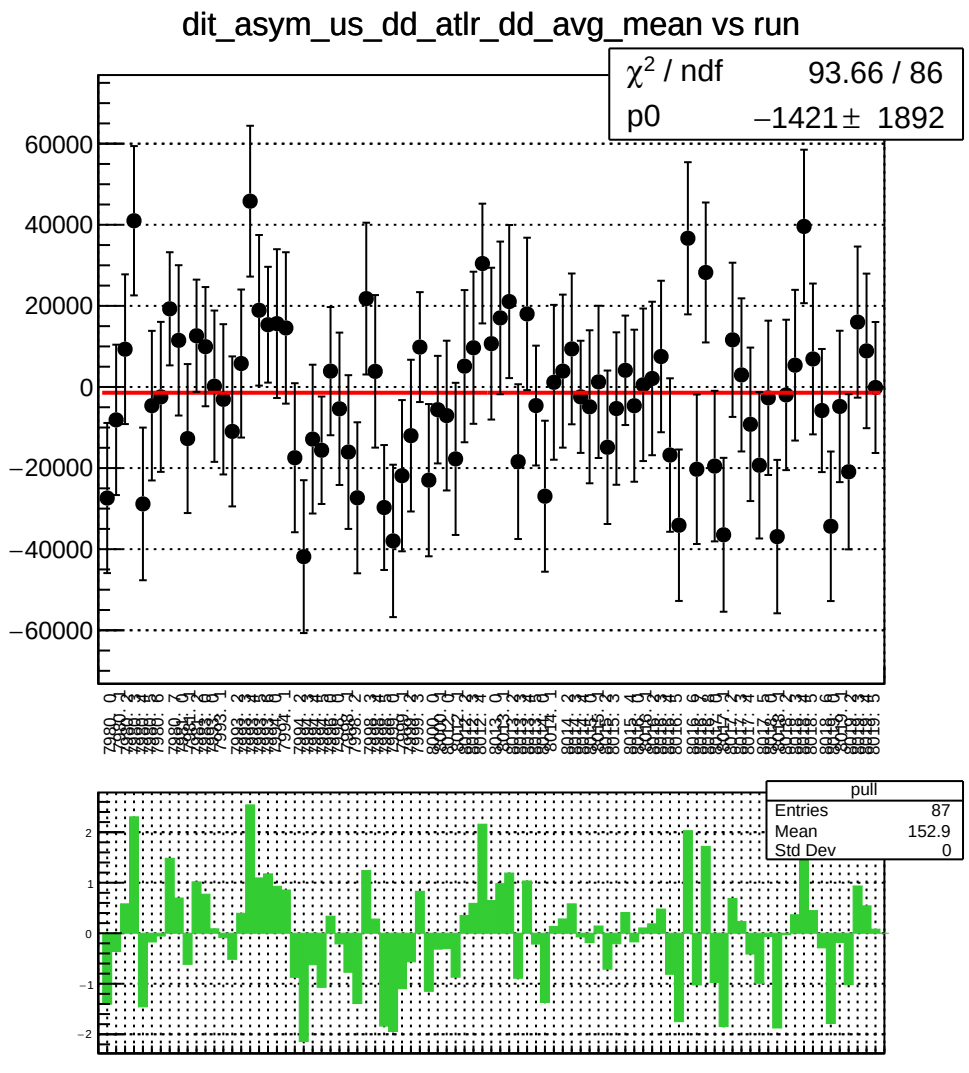
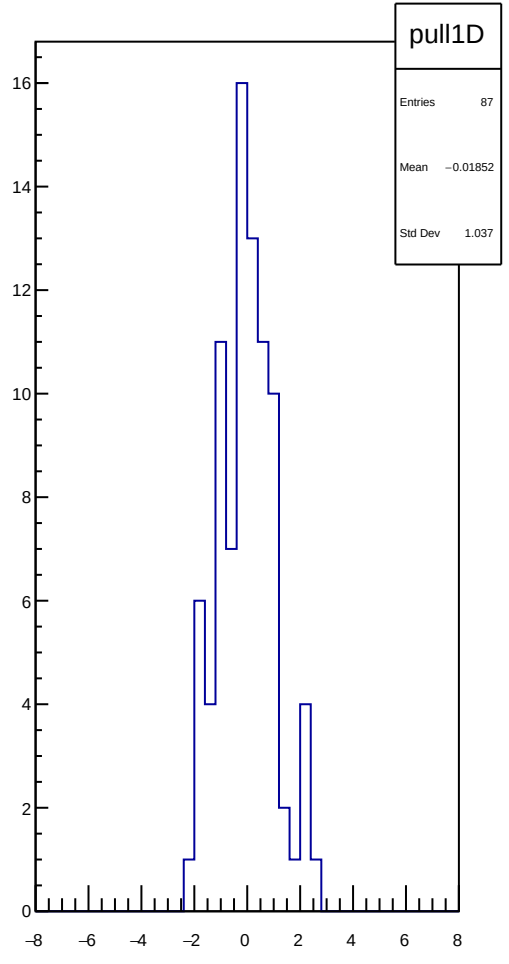
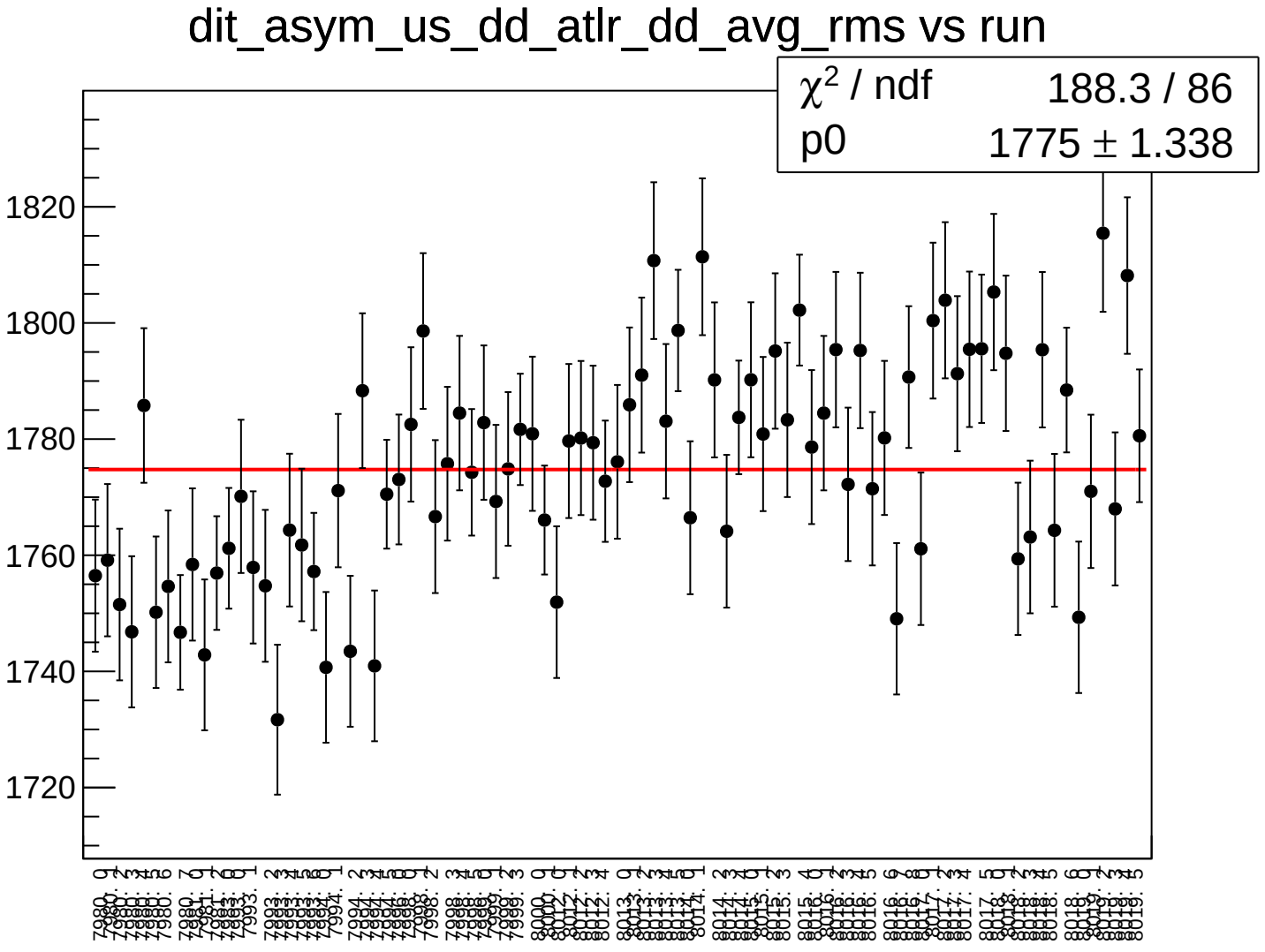
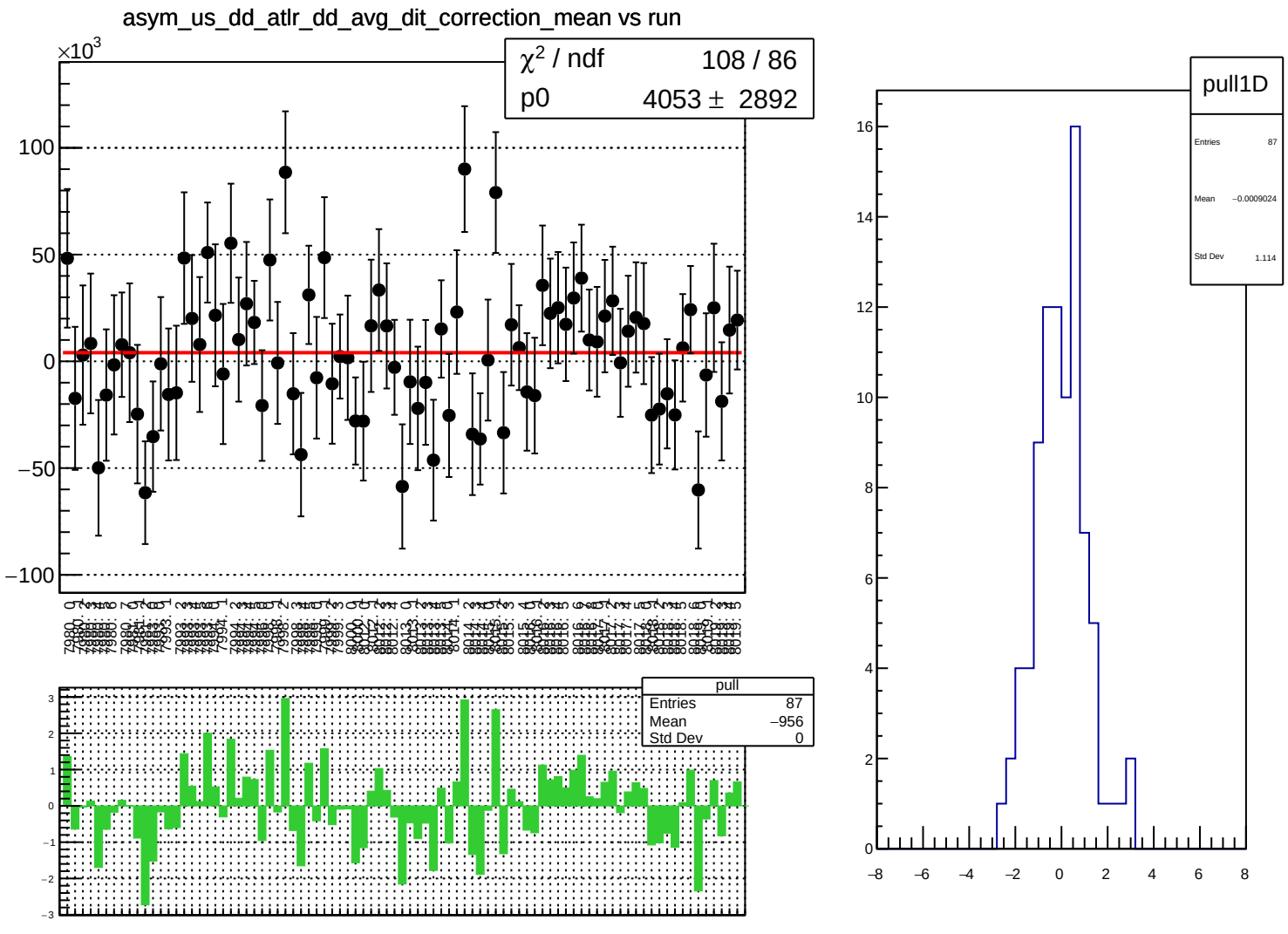
2
4
6
8

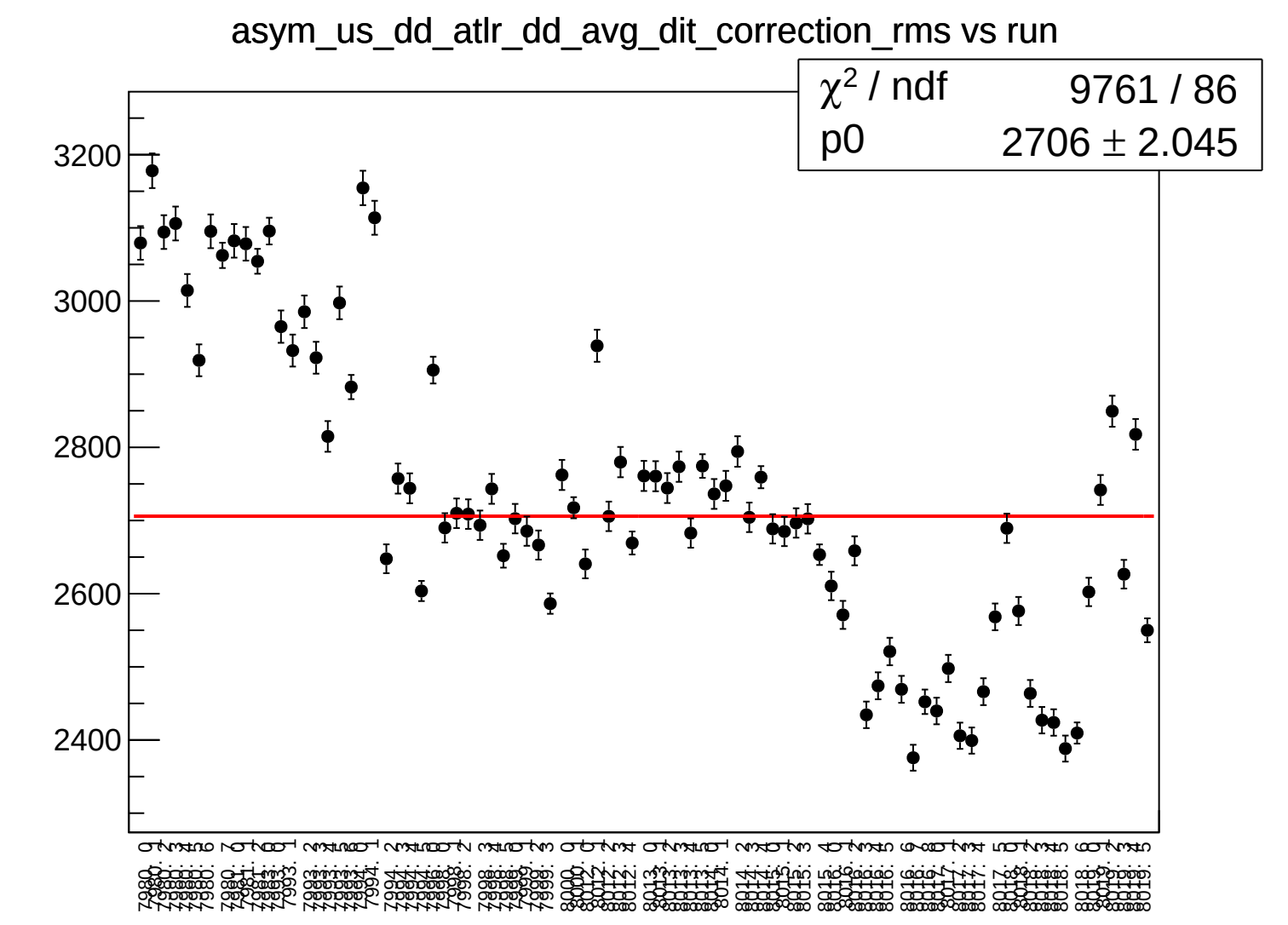

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.045e+04 / 86
p0 2653 ± 2.005
3200
3000
2800
2600
2400

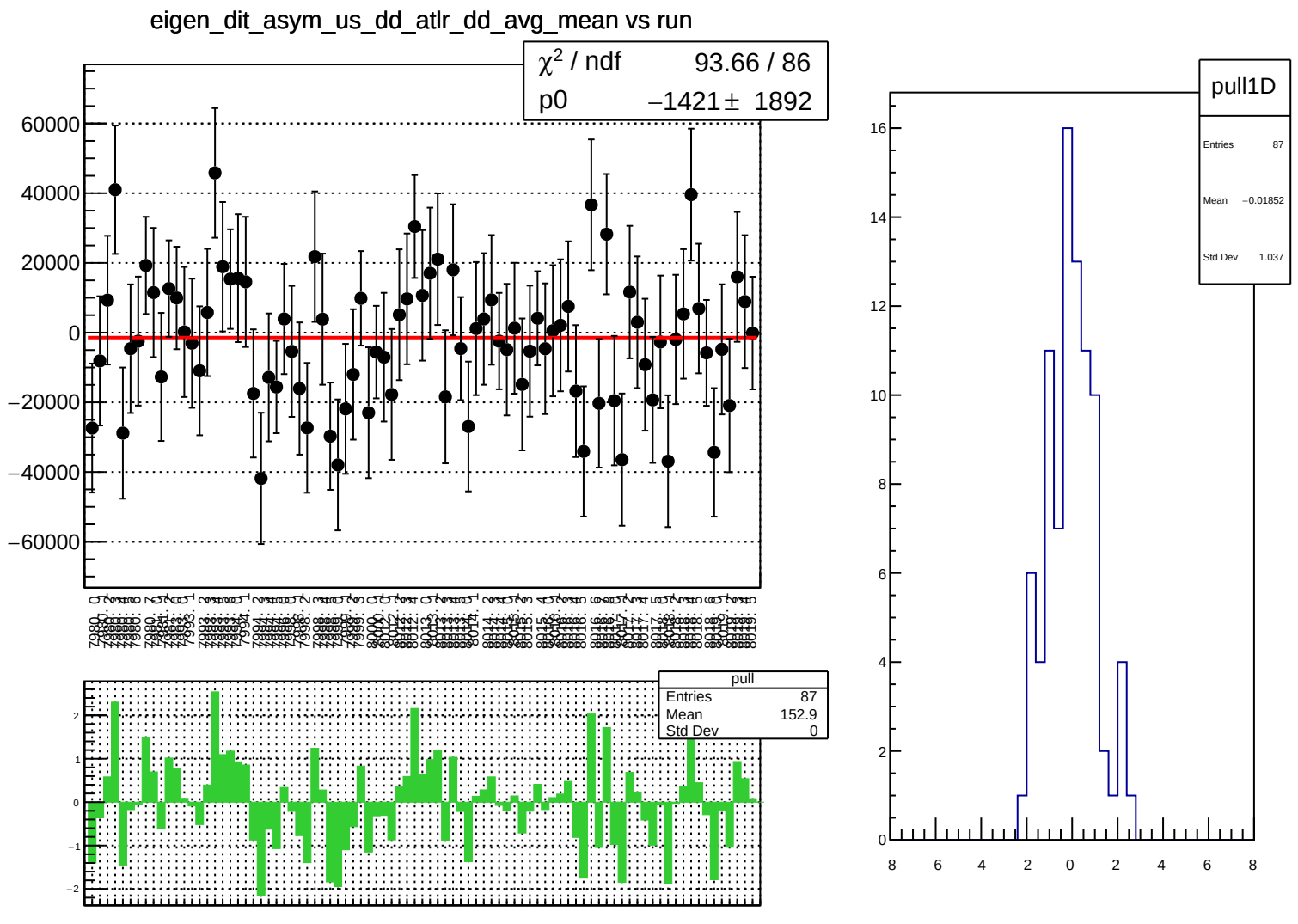

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 93.66 / 86
p0 −1421 ± 1892
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 152.9
Std Dev 0
2
1
0
−1
−2

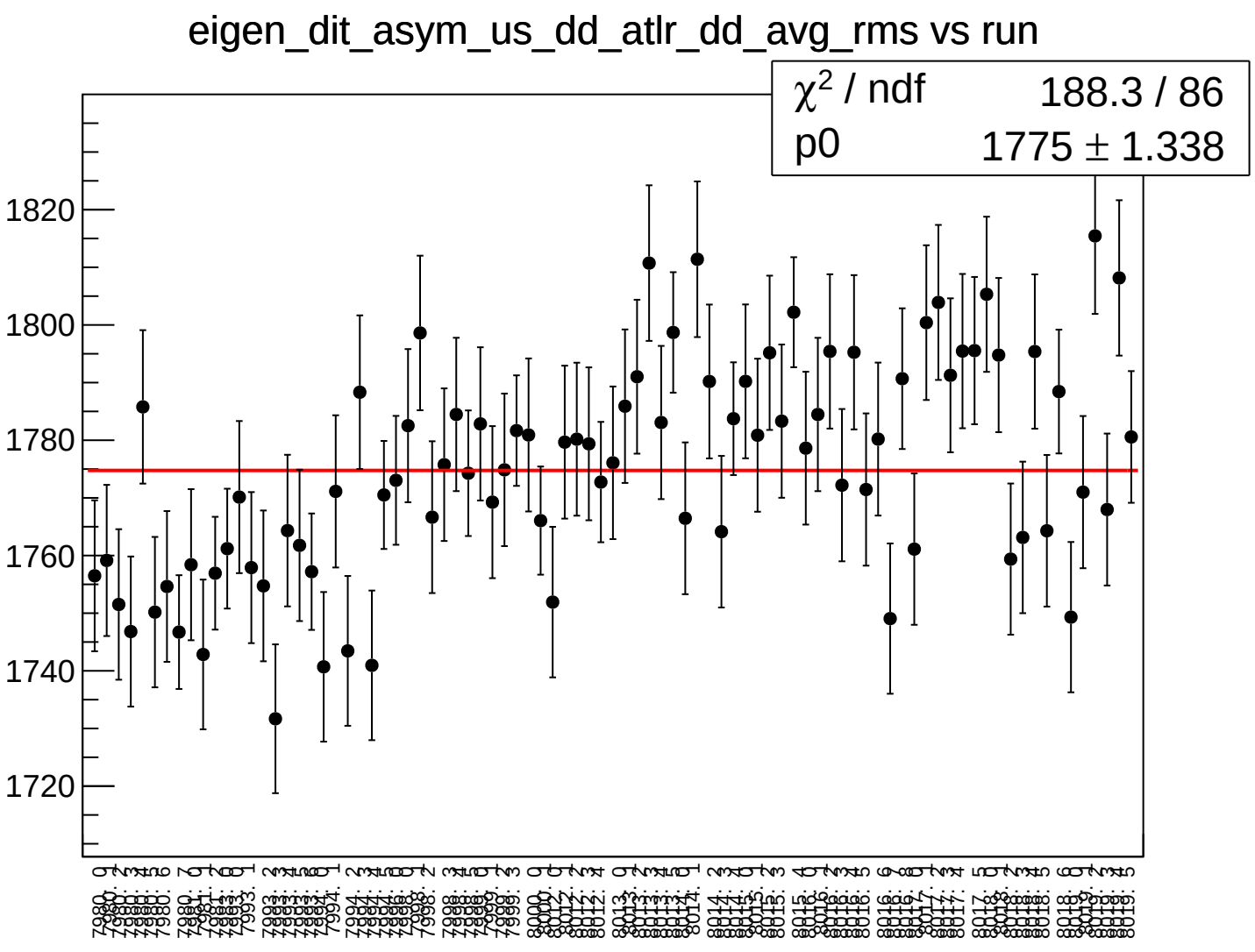

pull1D
Entries 87
Mean −0.01852
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

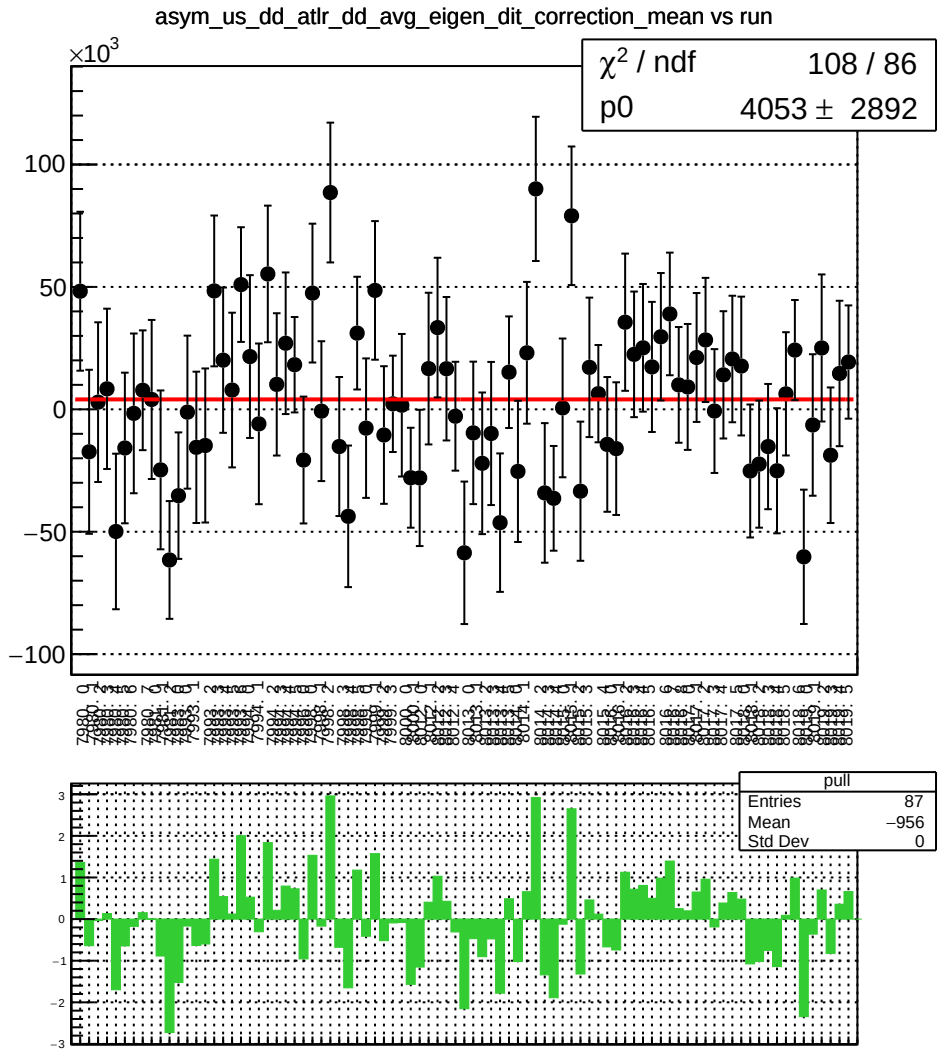

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 188.3 / 86
p0 1775 ± 1.338
1820
1800
1780
1760
1740
1720

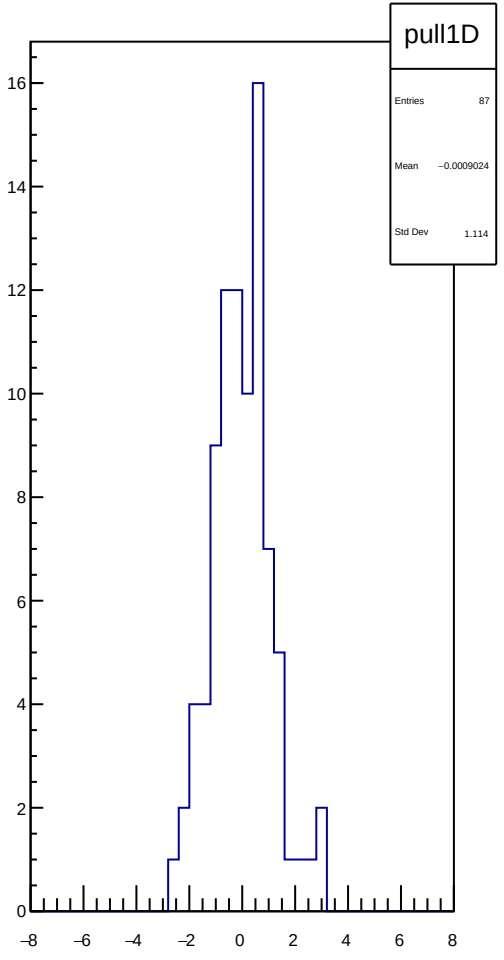

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 108 / 86
p0 4053 ± 2892
100
50
0
−50
−100
pull
Entries 87
Mean −956
Std Dev 0
pull1D
Entries 87
Mean −0.0009024
Std Dev 1.114

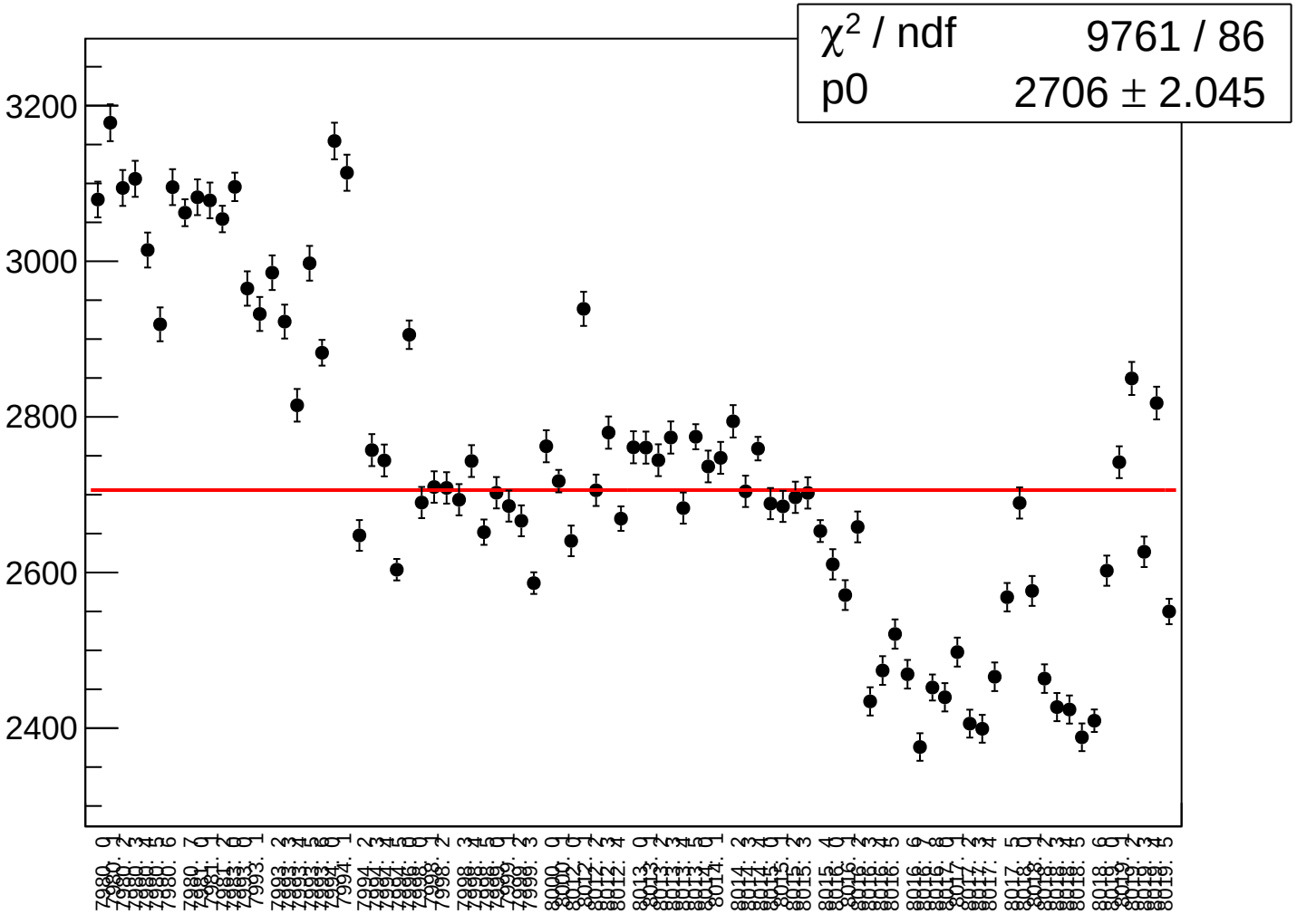

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 9761 / 86
p0 2706 ± 2.045
3200
3000
2800
2600
2400

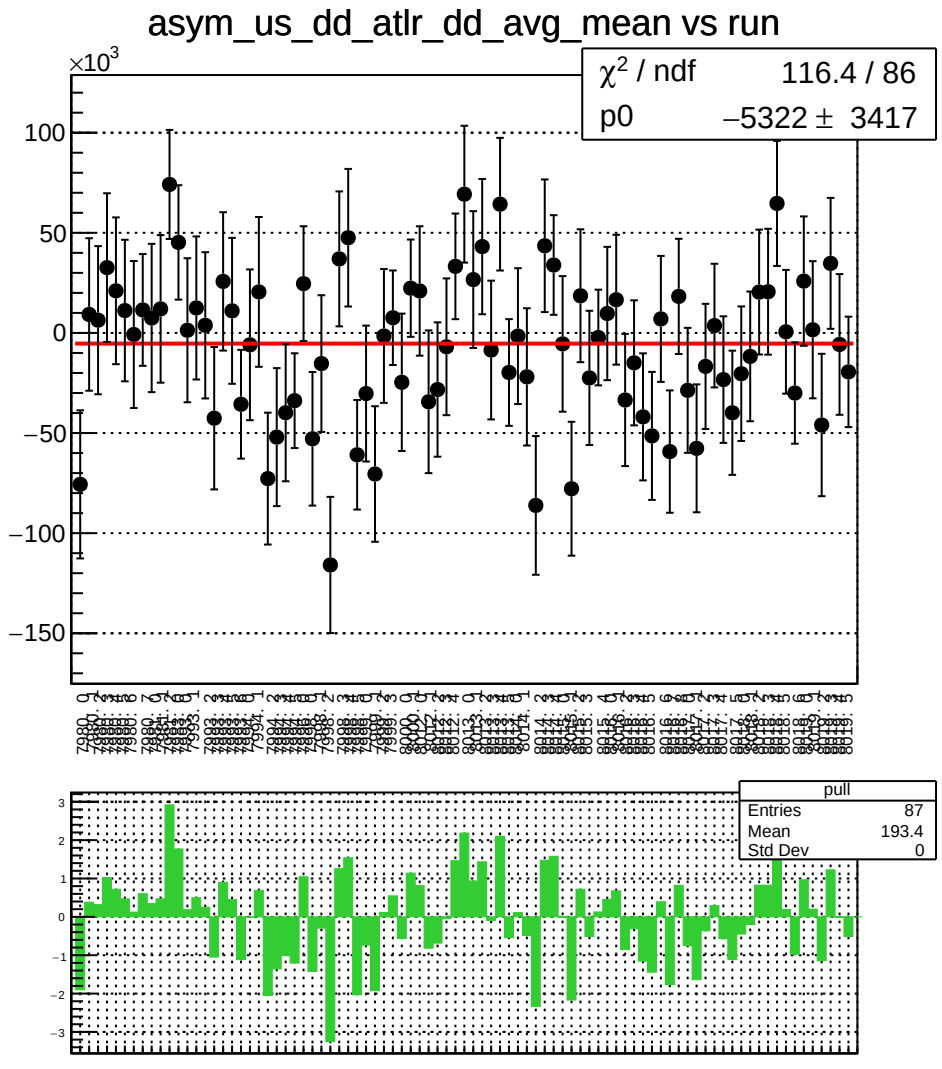

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 93.66 / 86
p0 −1421 ± 1892
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 152.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01852
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

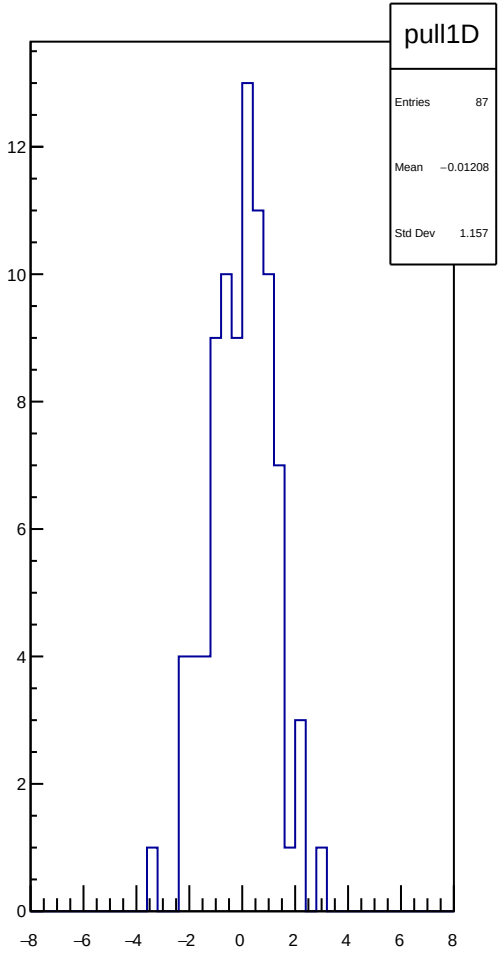

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 188.3 / 86
p0 1775 ± 1.338
1820
1800
1780
1760
1740
1720

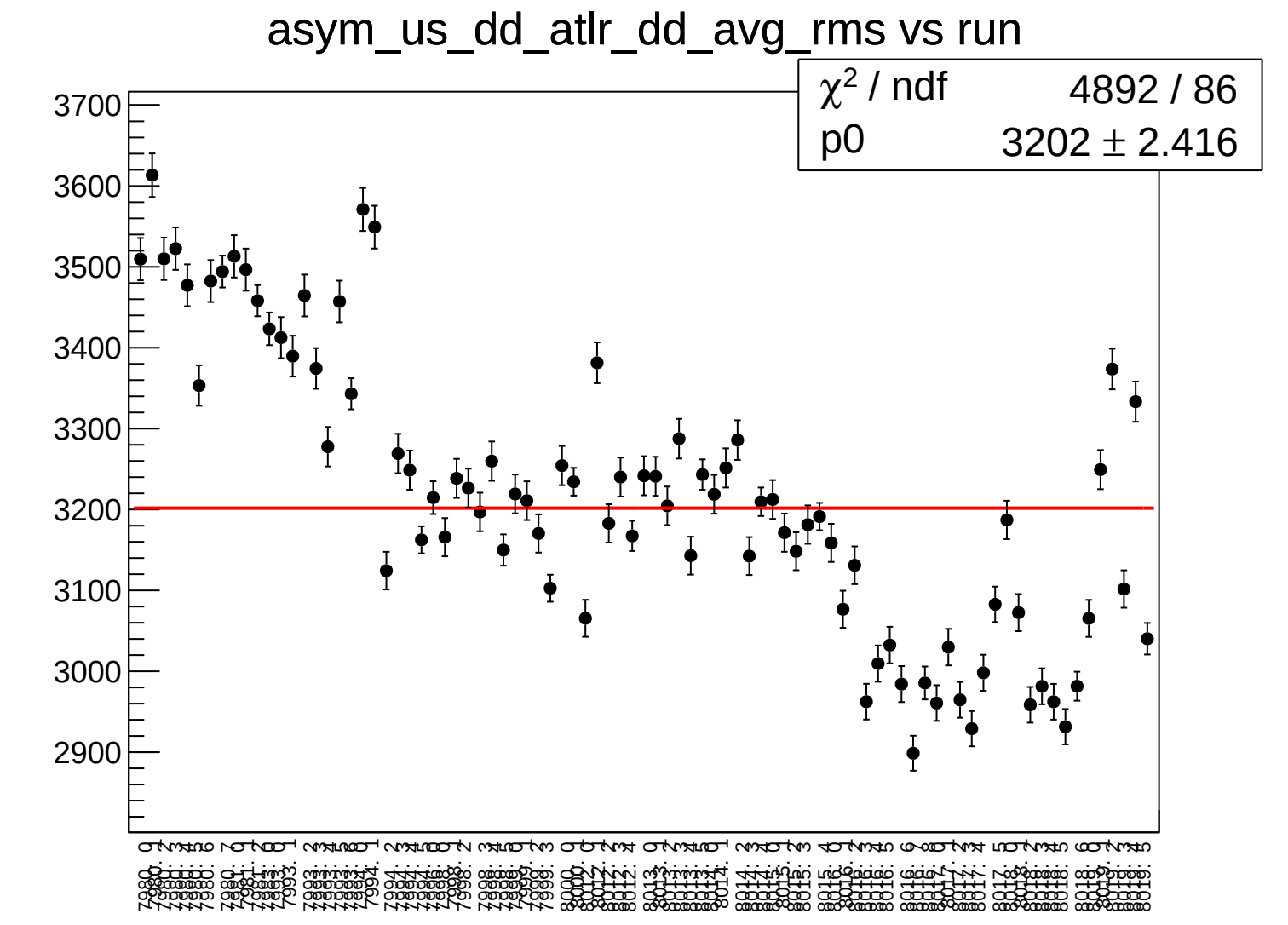

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 108 / 86
p0 4053 ± 2892
100
50
0
−50
−100
pull
Entries 87
Mean −956
Std Dev 0
3
2
1
0
−1
−2
−3

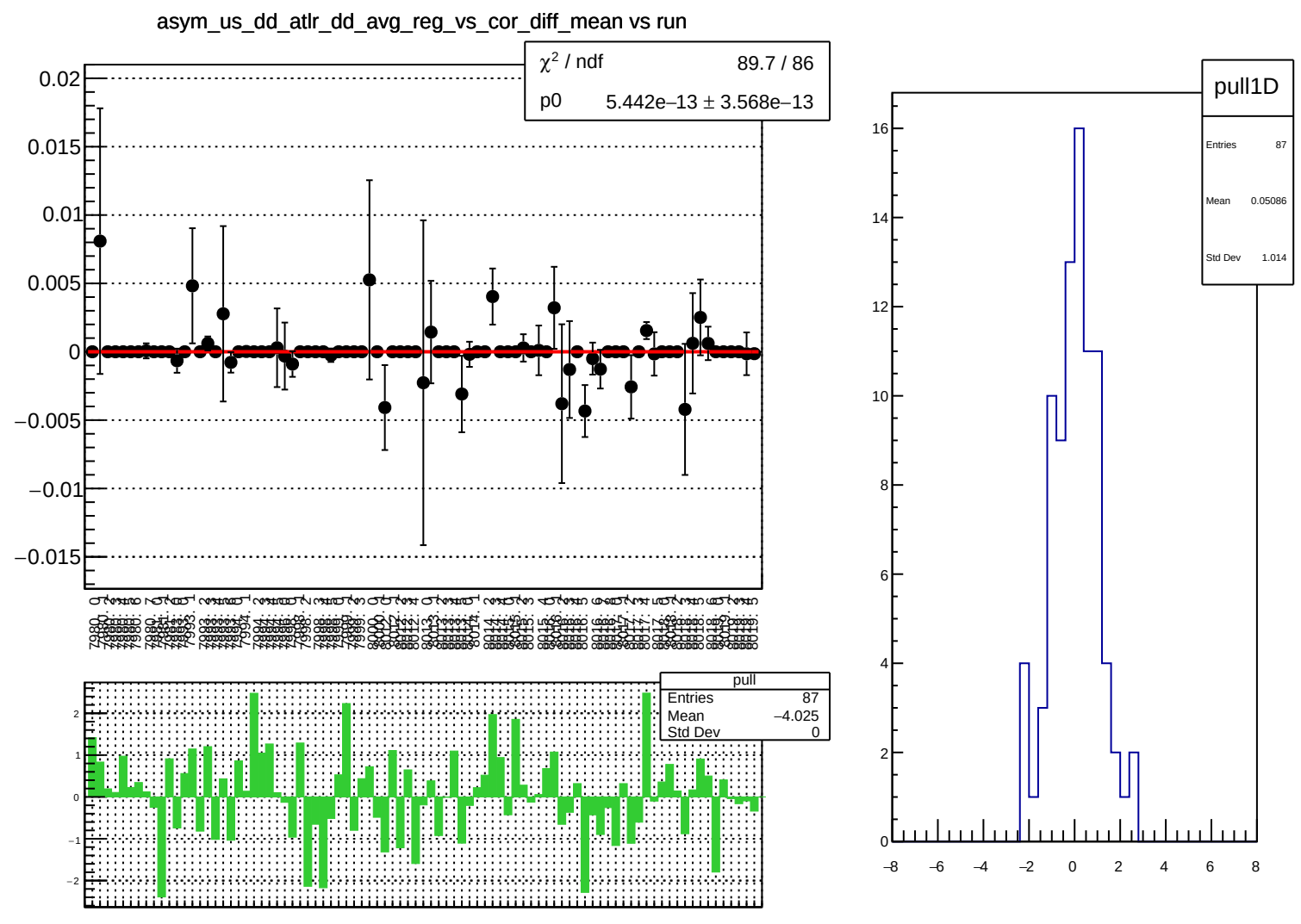

pull1D
Entries 87
Mean −0.0009024
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

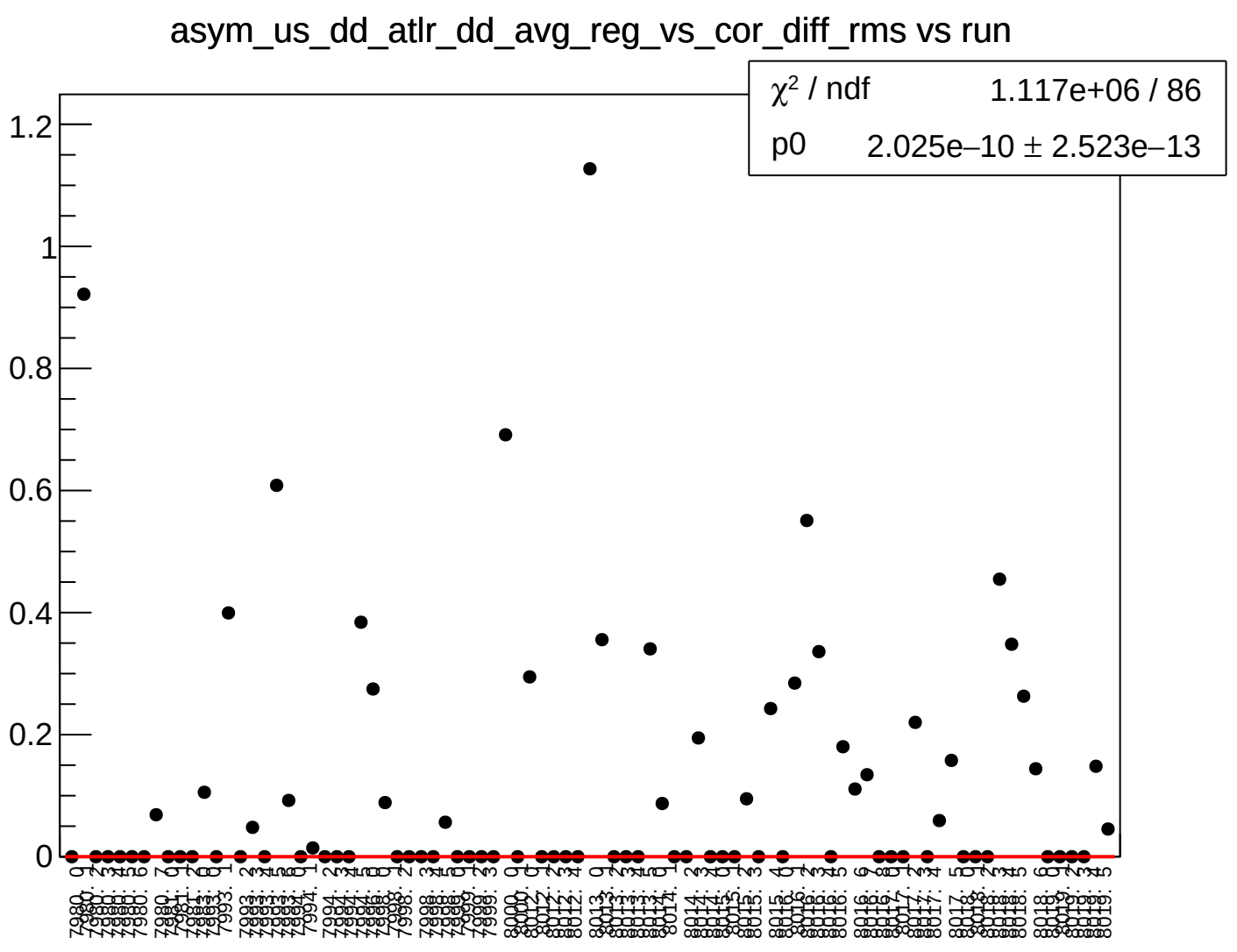

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 9761 / 86
p0 2706 ± 2.045
3200
3000
2800
2600
2400

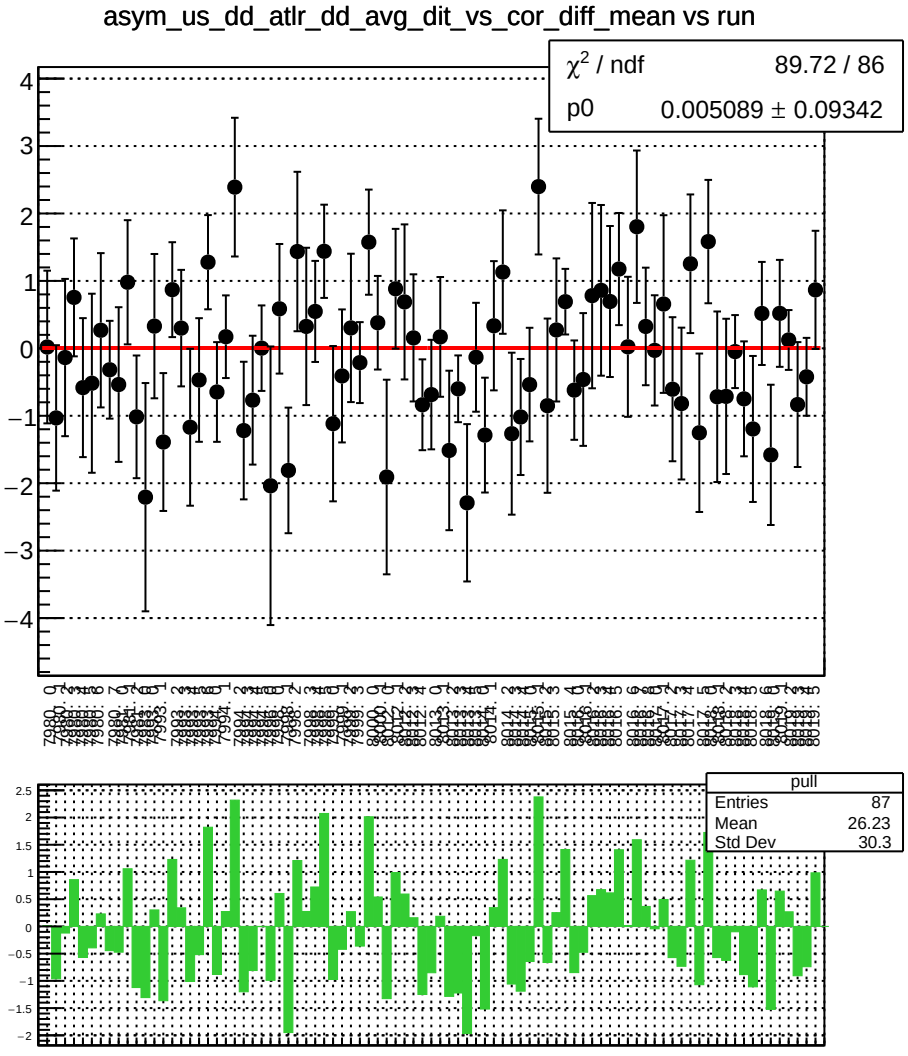

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 116.4 / 86
p0 −5322 ± 3417
100
50
0
−50
−100
−150
pull
Entries 87
Mean 193.4
Std Dev 0
3
2
1
0
−1
−2
−3

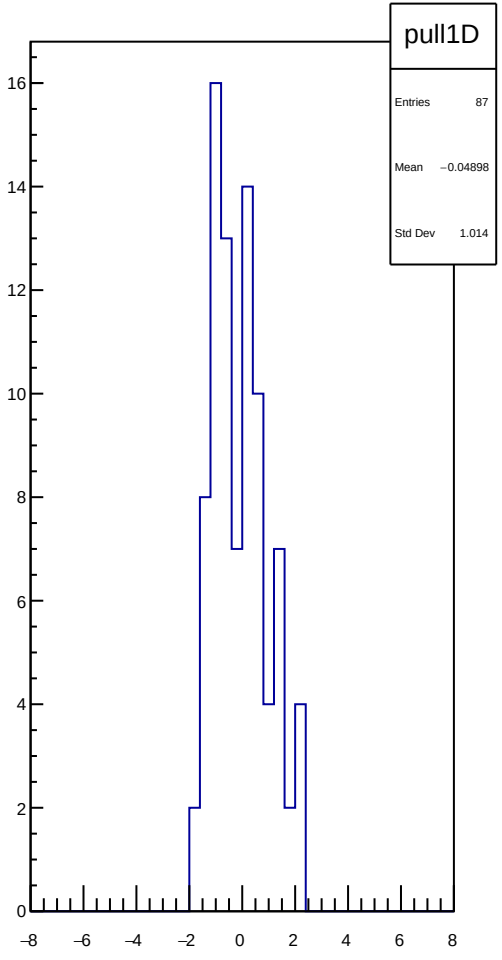

pull1D
Entries 87
Mean −0.01208
Std Dev 1.157
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

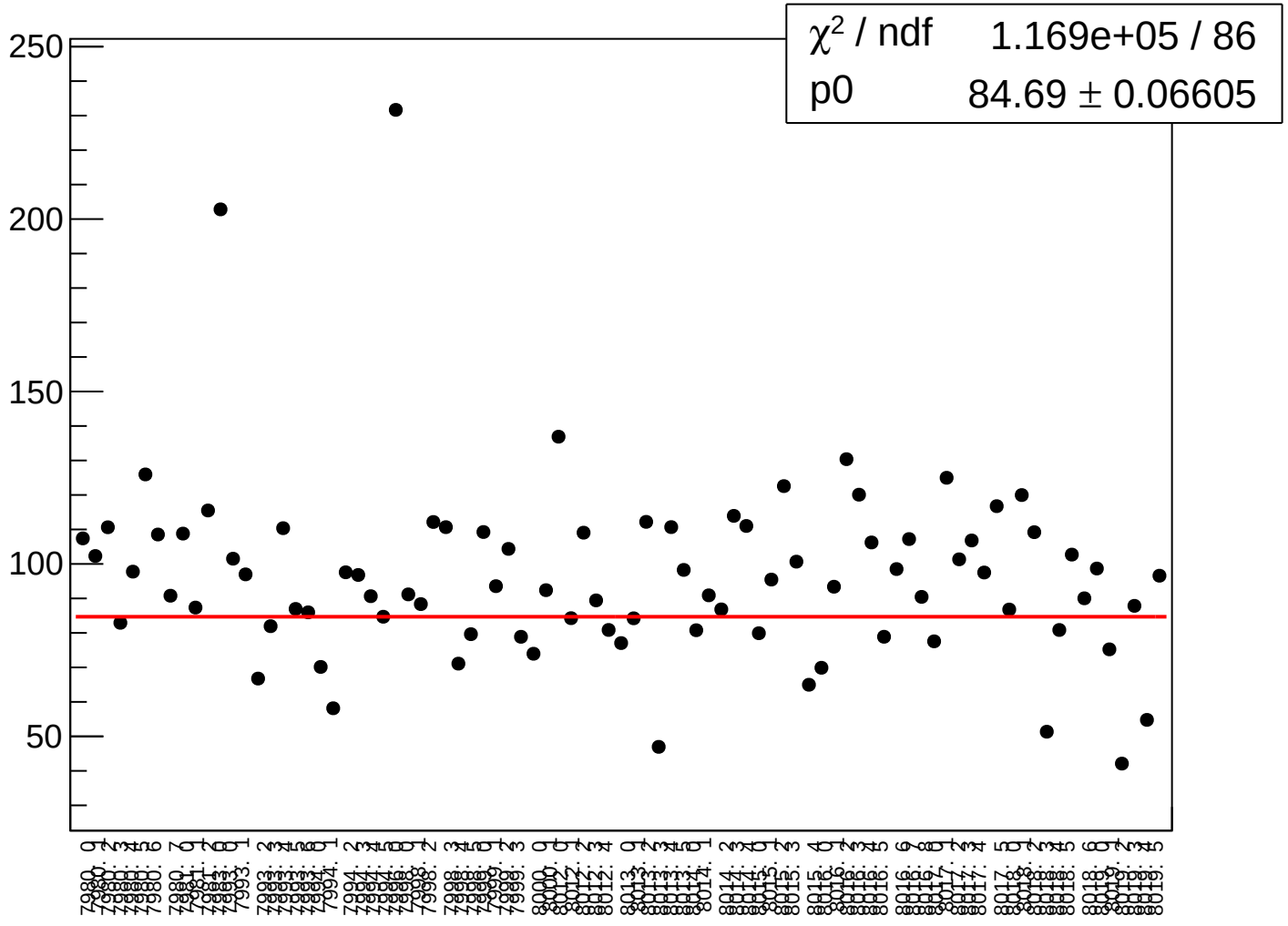

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 4892 / 86
p0 3202 ± 2.416
3700
3600
3500
3400
3300
3200
3100
3000
2900

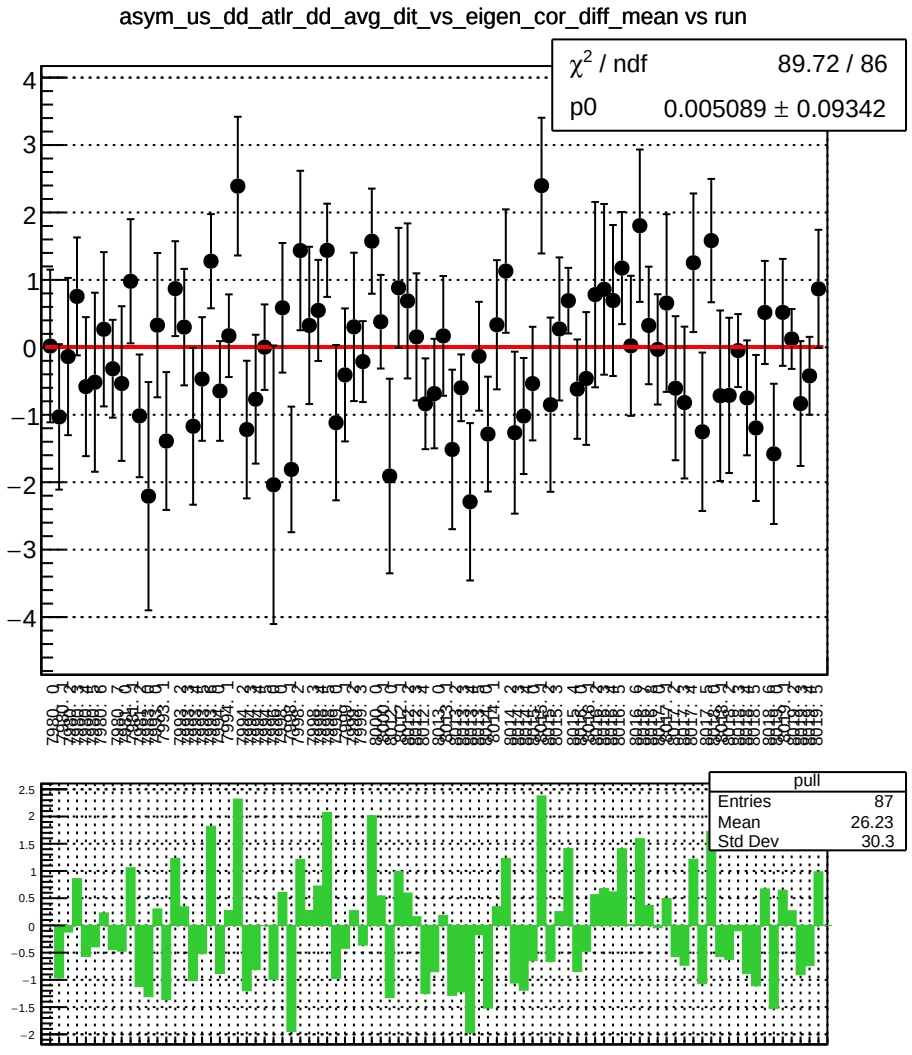

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.7 / 86
p0 5.442e−13 ± 3.568e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 87
Mean −4.025
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.05086
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

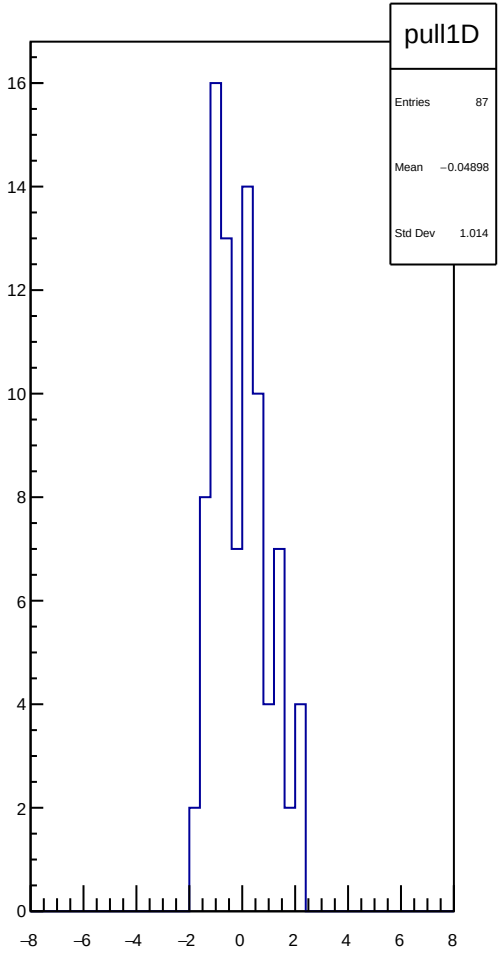

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.117e+06 / 86
p0 2.025e−10 ± 2.523e−13
1.2
1
0.8
0.6
0.4
0.2
0

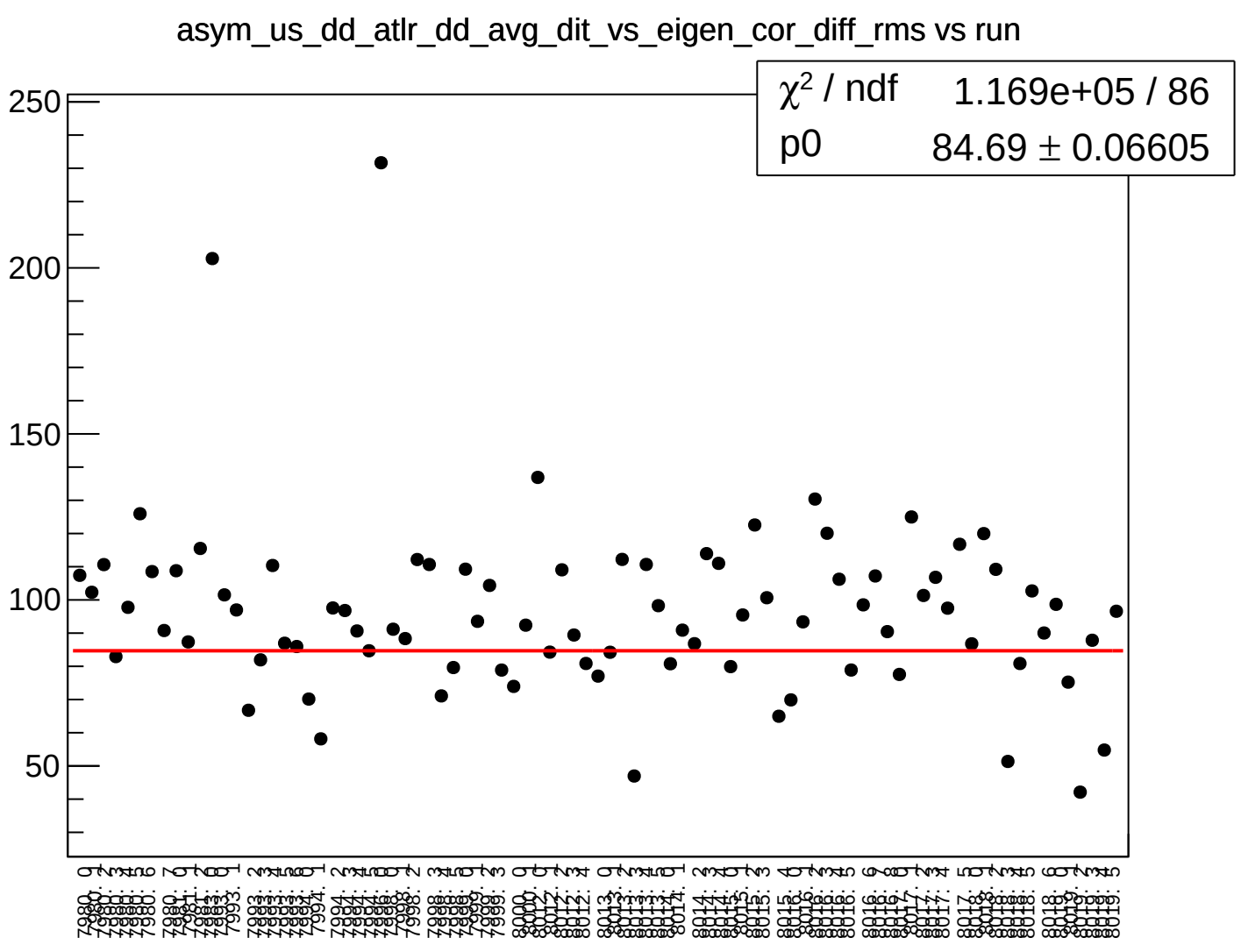

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.72 / 86
p0 0.005089 ± 0.09342
pull
Entries 87
Mean 26.23
Std Dev 30.3

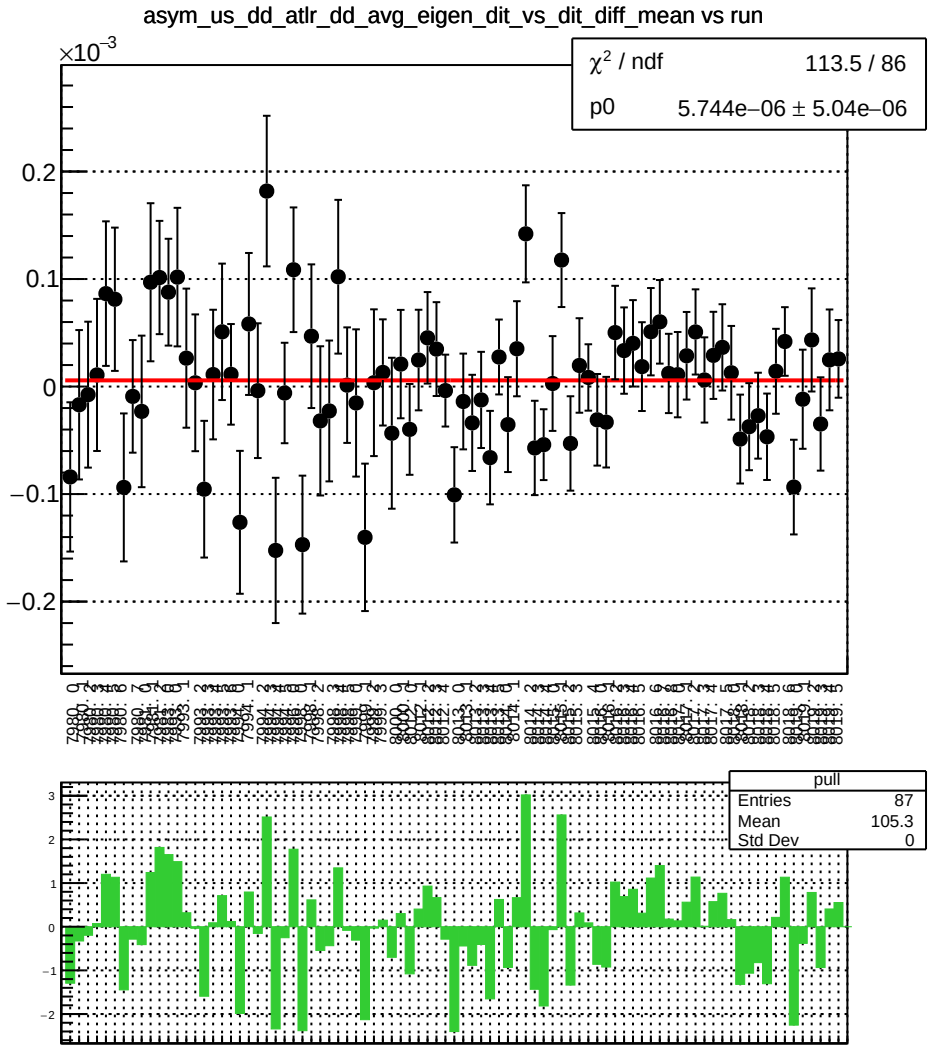

pull1D
Entries 87
Mean −0.04898
Std Dev 1.014

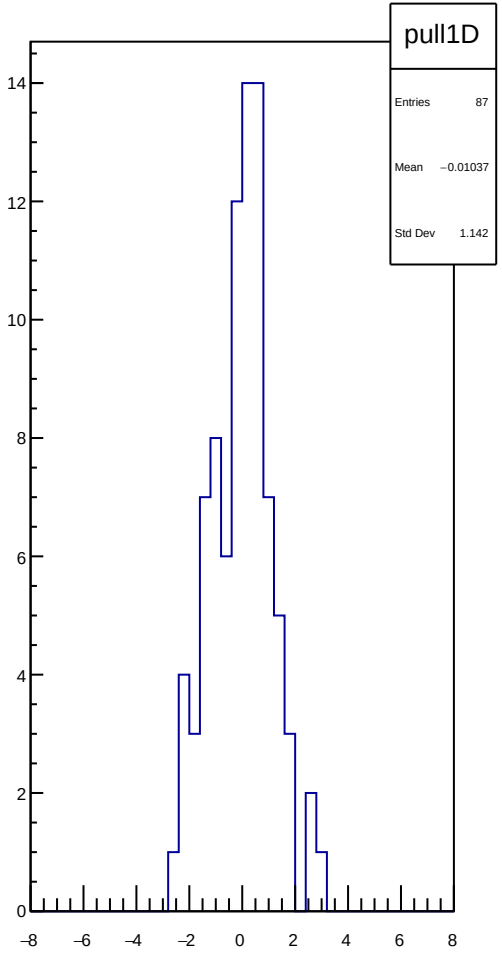

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.169e+05 / 86
p0 84.69 ± 0.06605
250
200
150
100
50

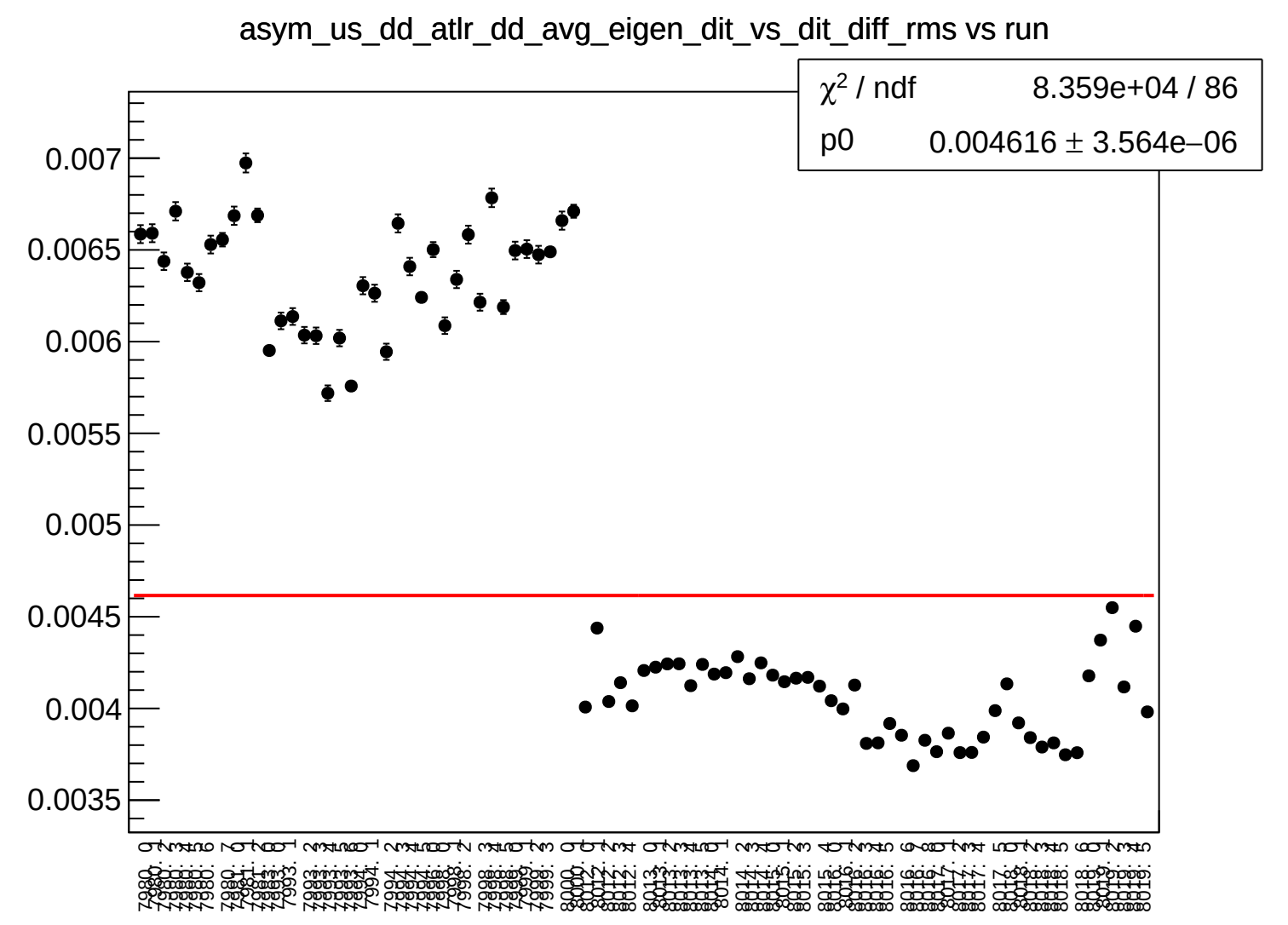

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.72 / 86
p0 0.005089 ± 0.09342
pull
Entries 87
Mean 26.23
Std Dev 30.3

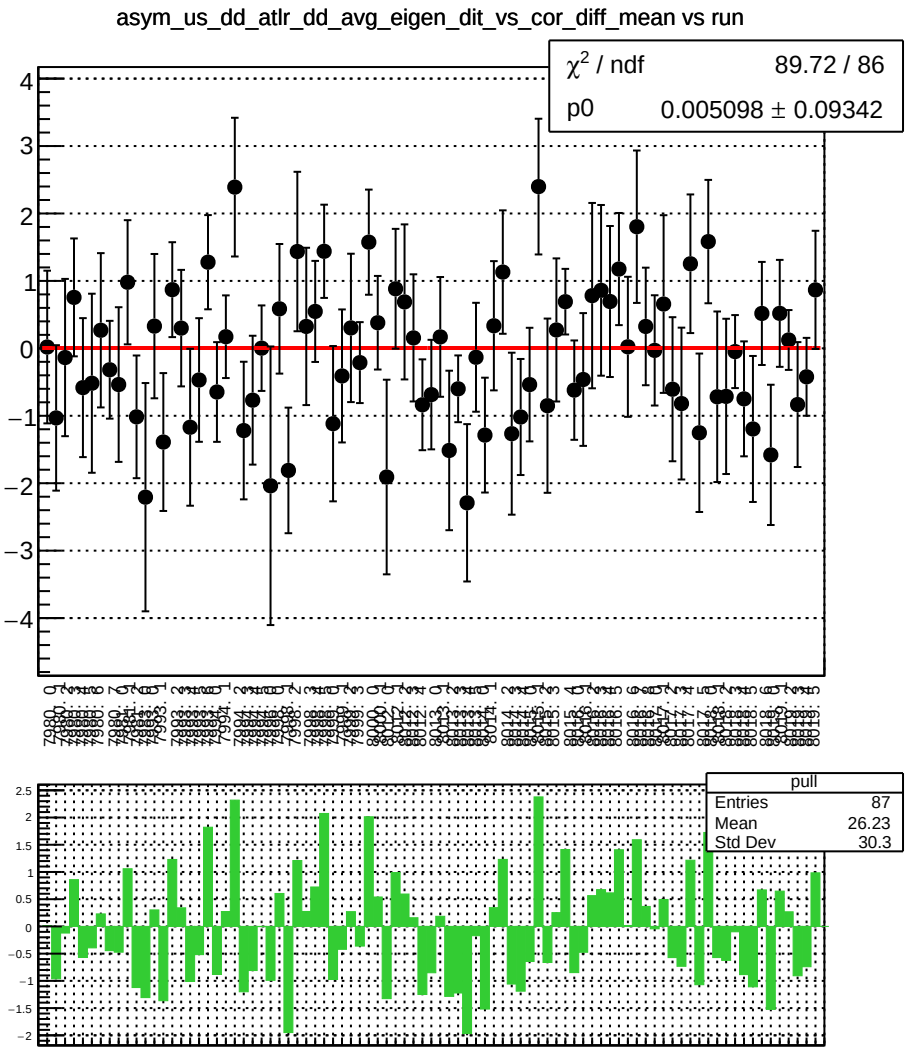

pull1D
Entries 87
Mean −0.04898
Std Dev 1.014

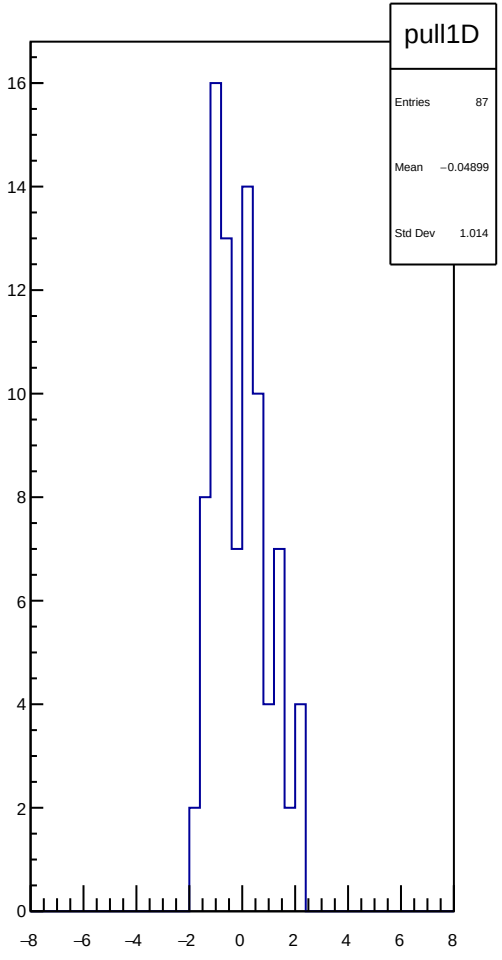

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.169e+05 / 86
p0 84.69 ± 0.06605
250
200
150
100
50

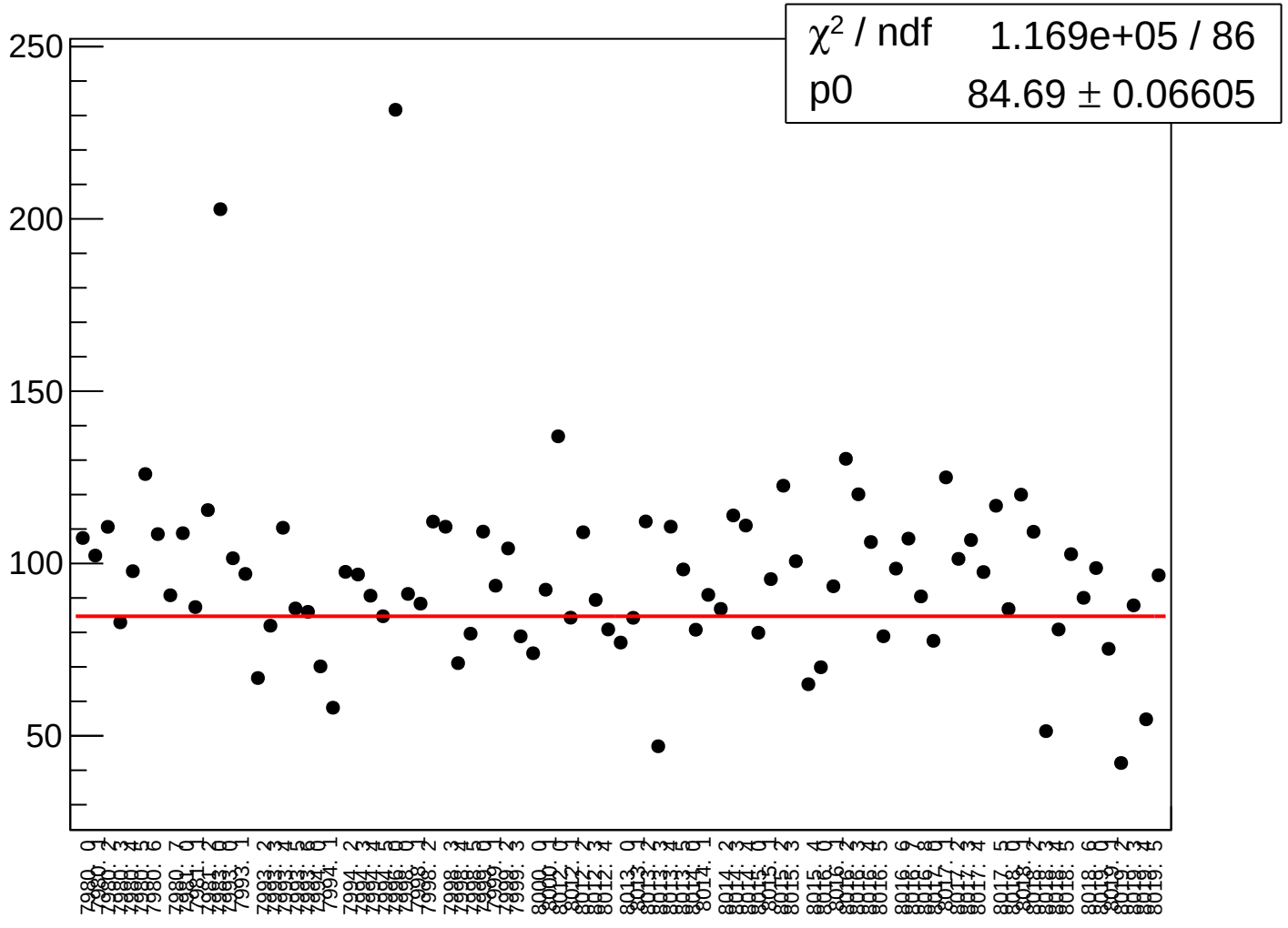

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 113.5 / 86
p0 5.744e−06 ± 5.04e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 87
Mean 105.3
Std Dev 0
3
2
1
0
−1
−2

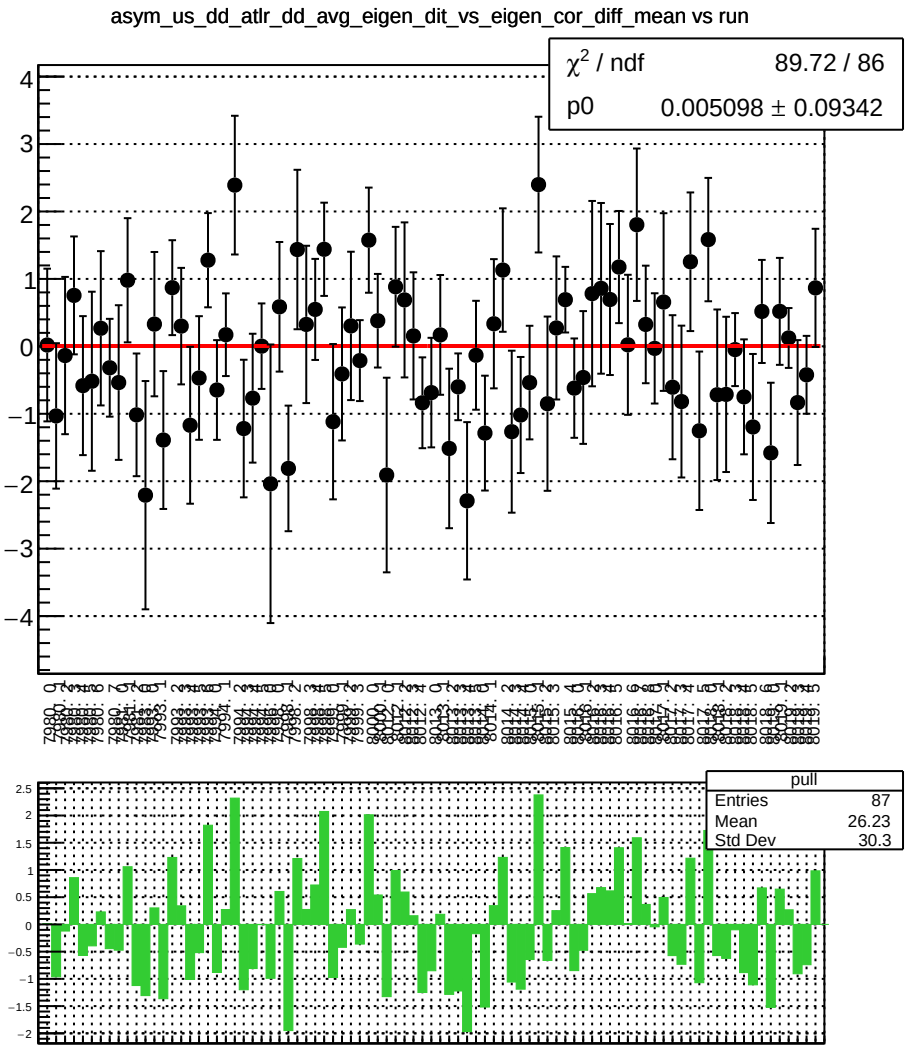

pull1D
Entries 87
Mean −0.01037
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

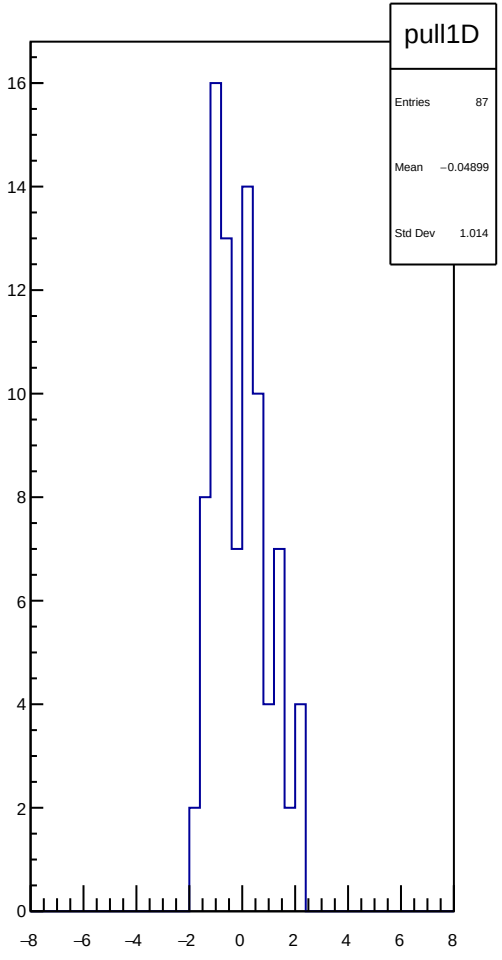

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.359e+04 / 86
p0 0.004616 ± 3.564e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

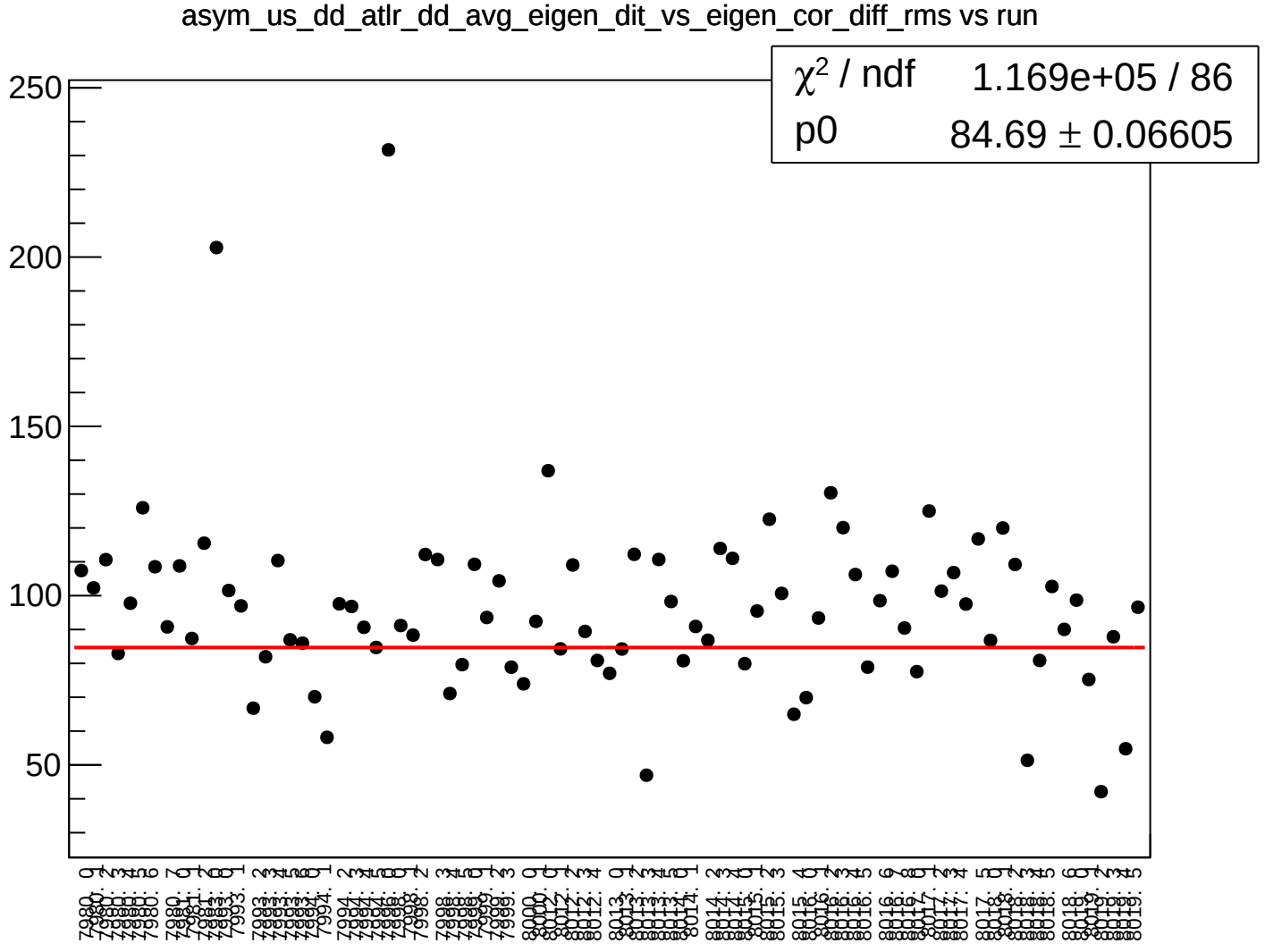

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.72 / 86
p0 0.005098 ± 0.09342
pull
Entries 87
Mean 26.23
Std Dev 30.3

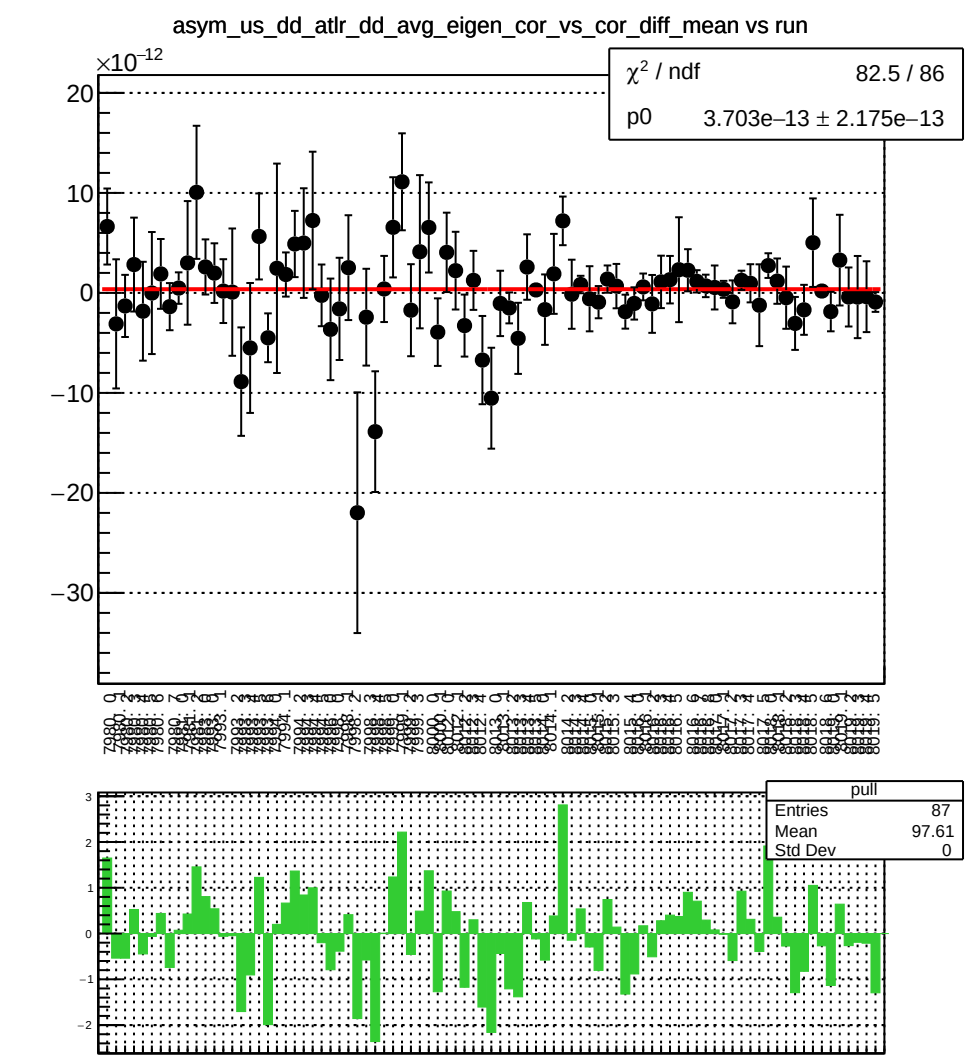

pull1D
Entries 87
Mean −0.04899
Std Dev 1.014

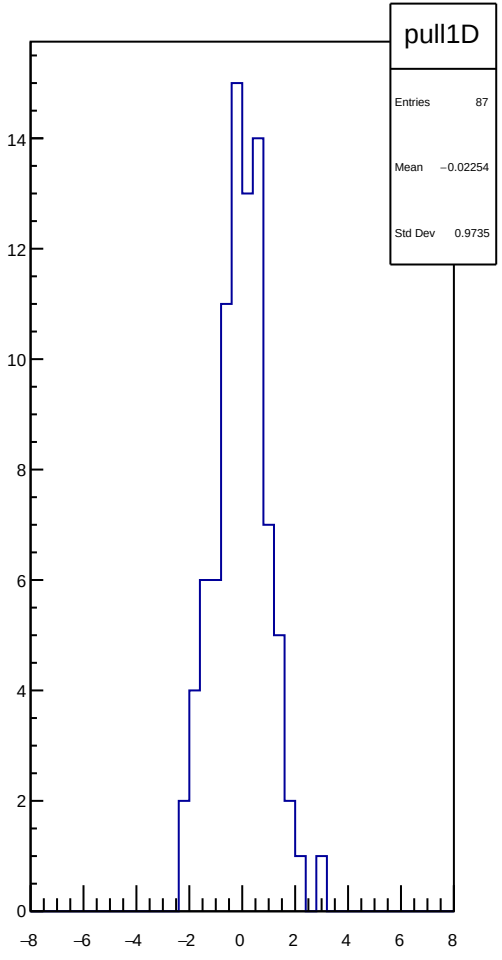

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.169e+05 / 86
p0 84.69 ± 0.06605
250
200
150
100
50

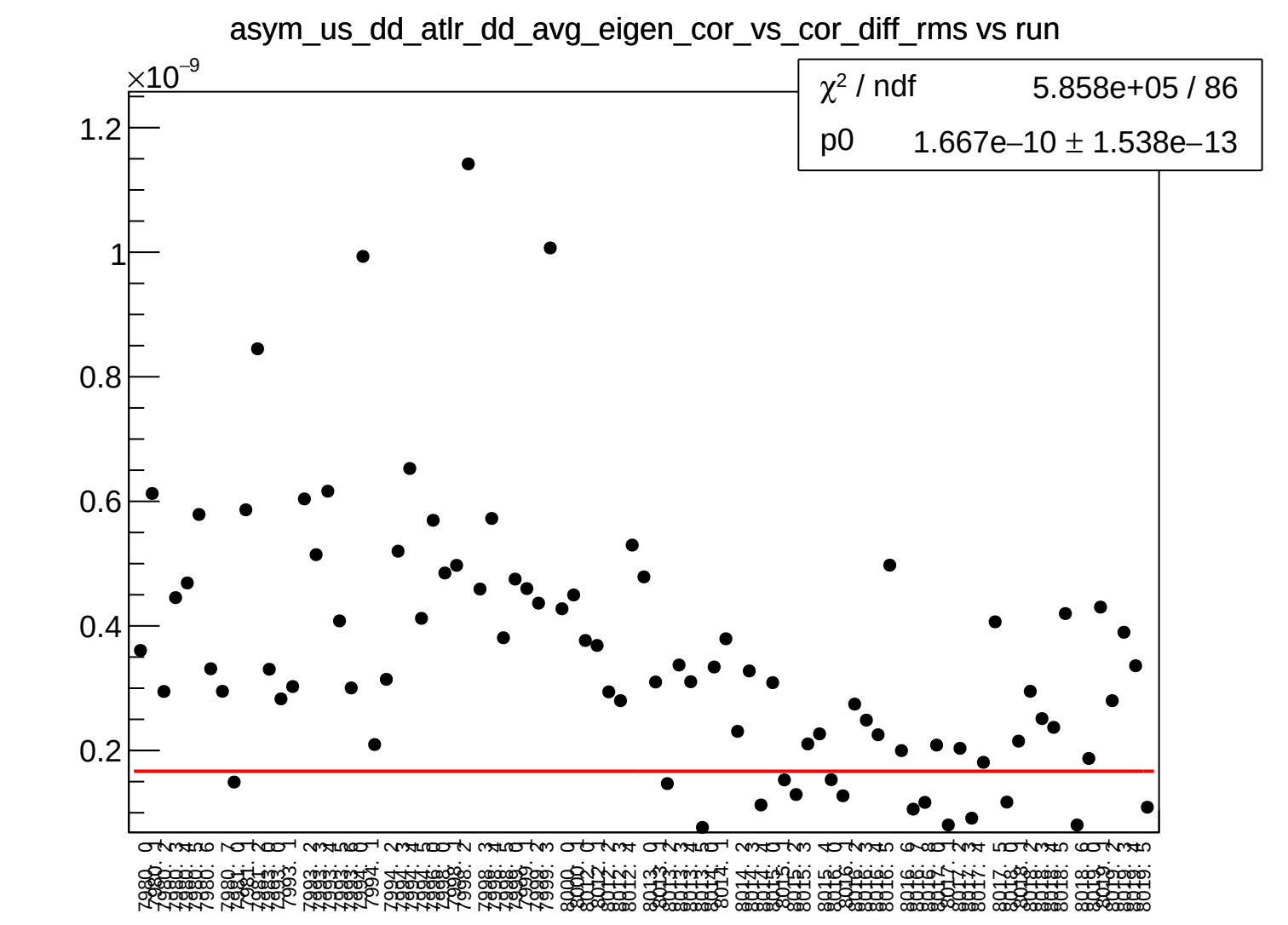

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.72 / 86
p0 0.005098 ± 0.09342
pull
Entries 87
Mean 26.23
Std Dev 30.3

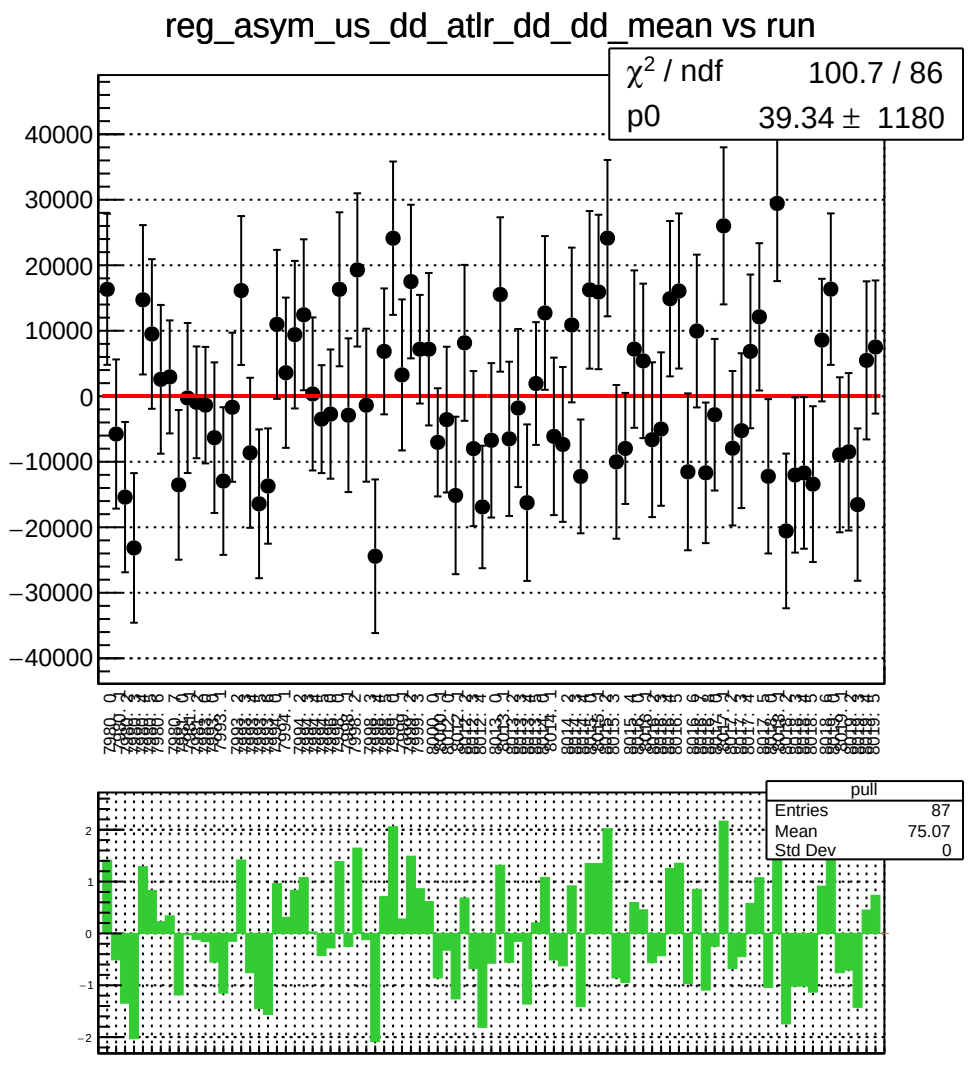

pull1D
Entries 87
Mean −0.04899
Std Dev 1.014

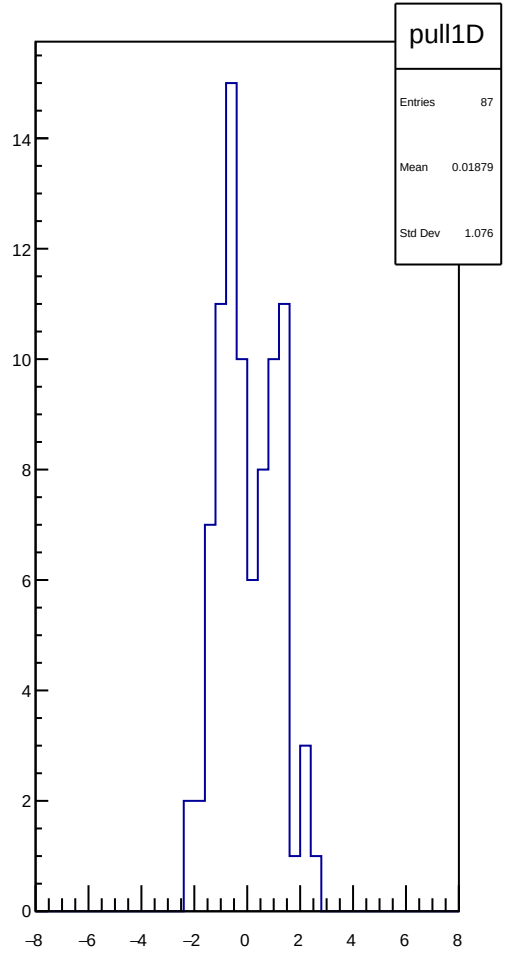

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.169e+05 / 86
p0 84.69 ± 0.06605
250
200
150
100
50

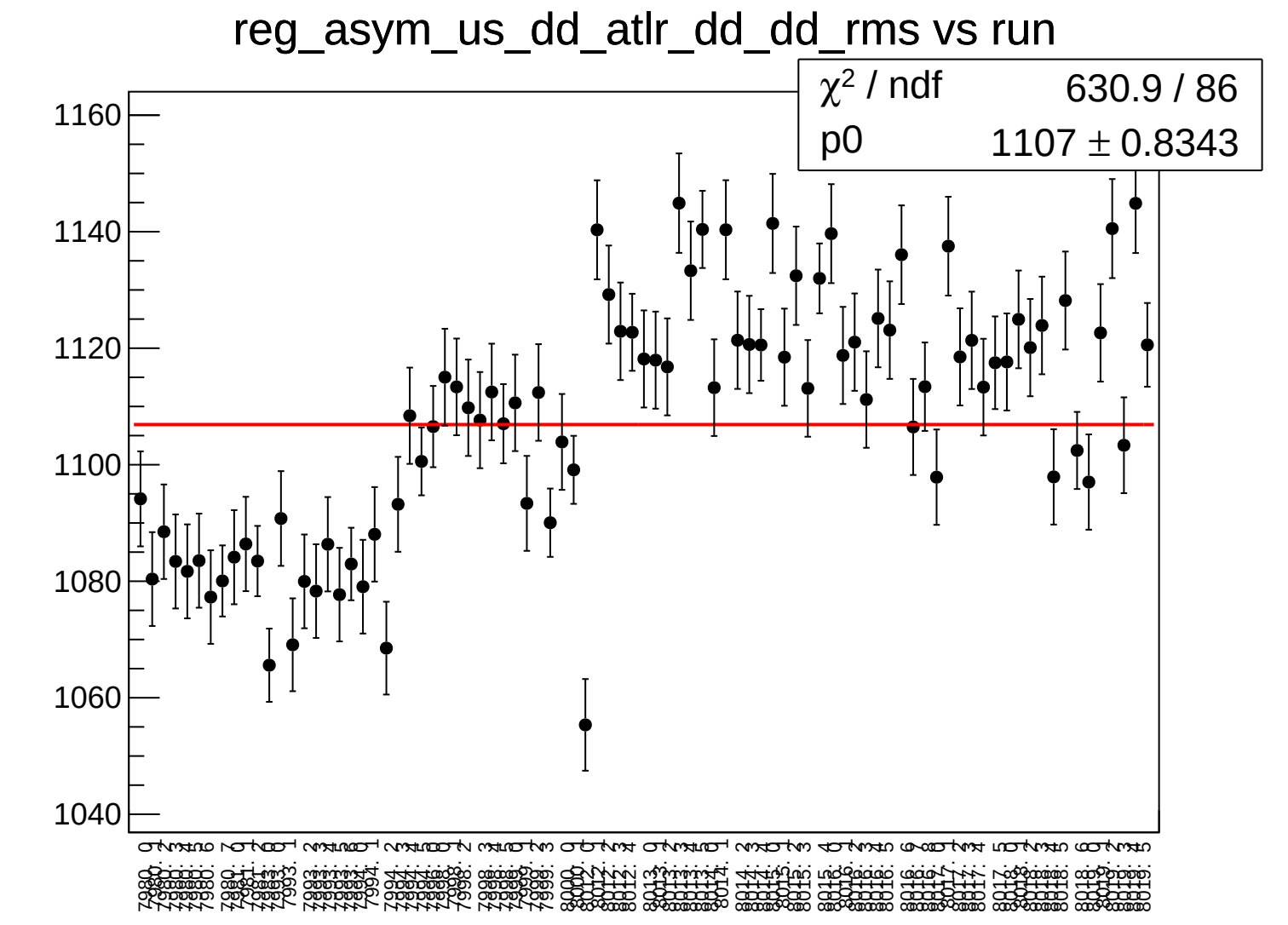

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.5 / 86
p0 3.703e−13 ± 2.175e−13
pull
Entries 87
Mean 97.61
Std Dev 0

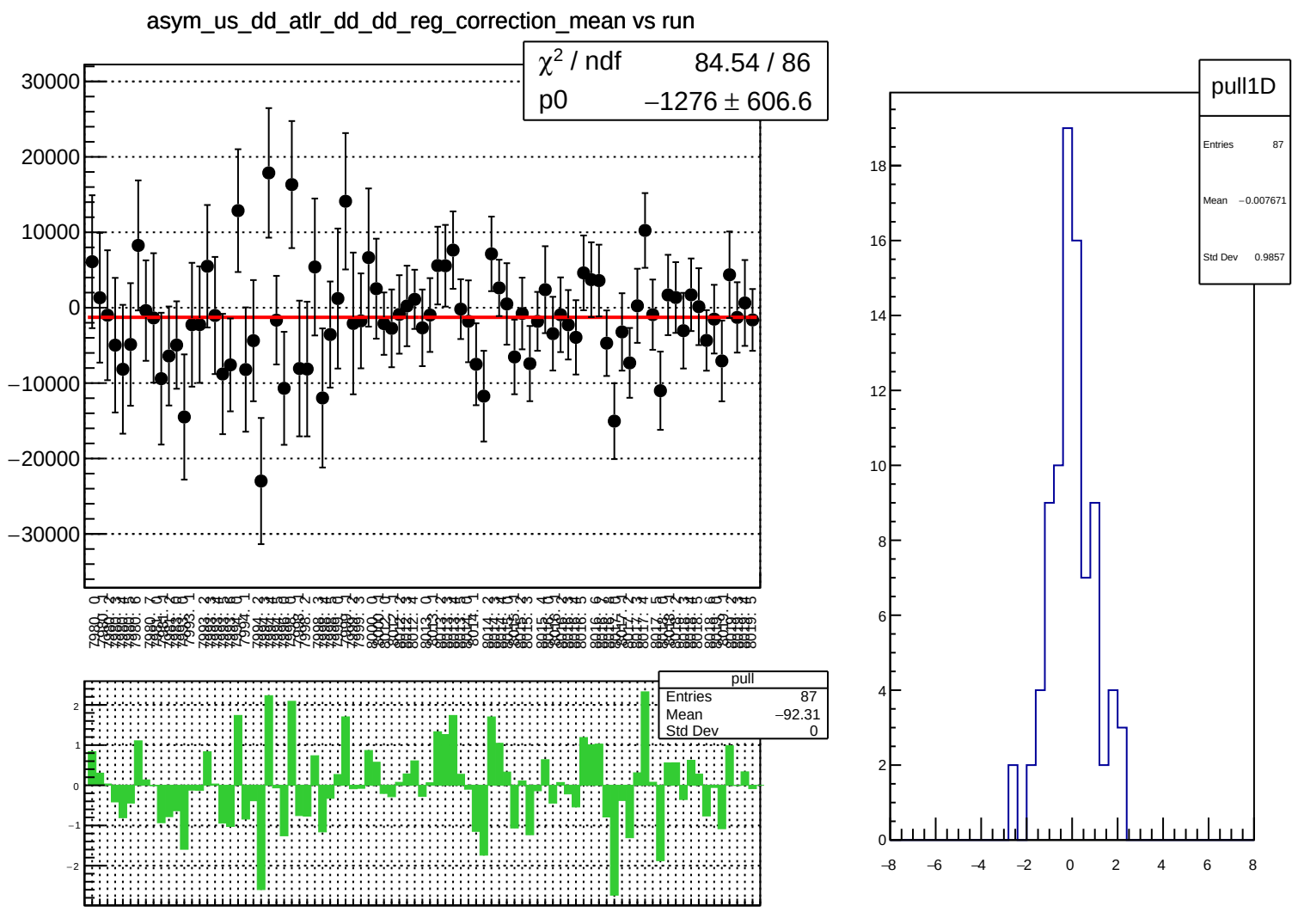

pull1D
Entries 87
Mean −0.02254
Std Dev 0.9735

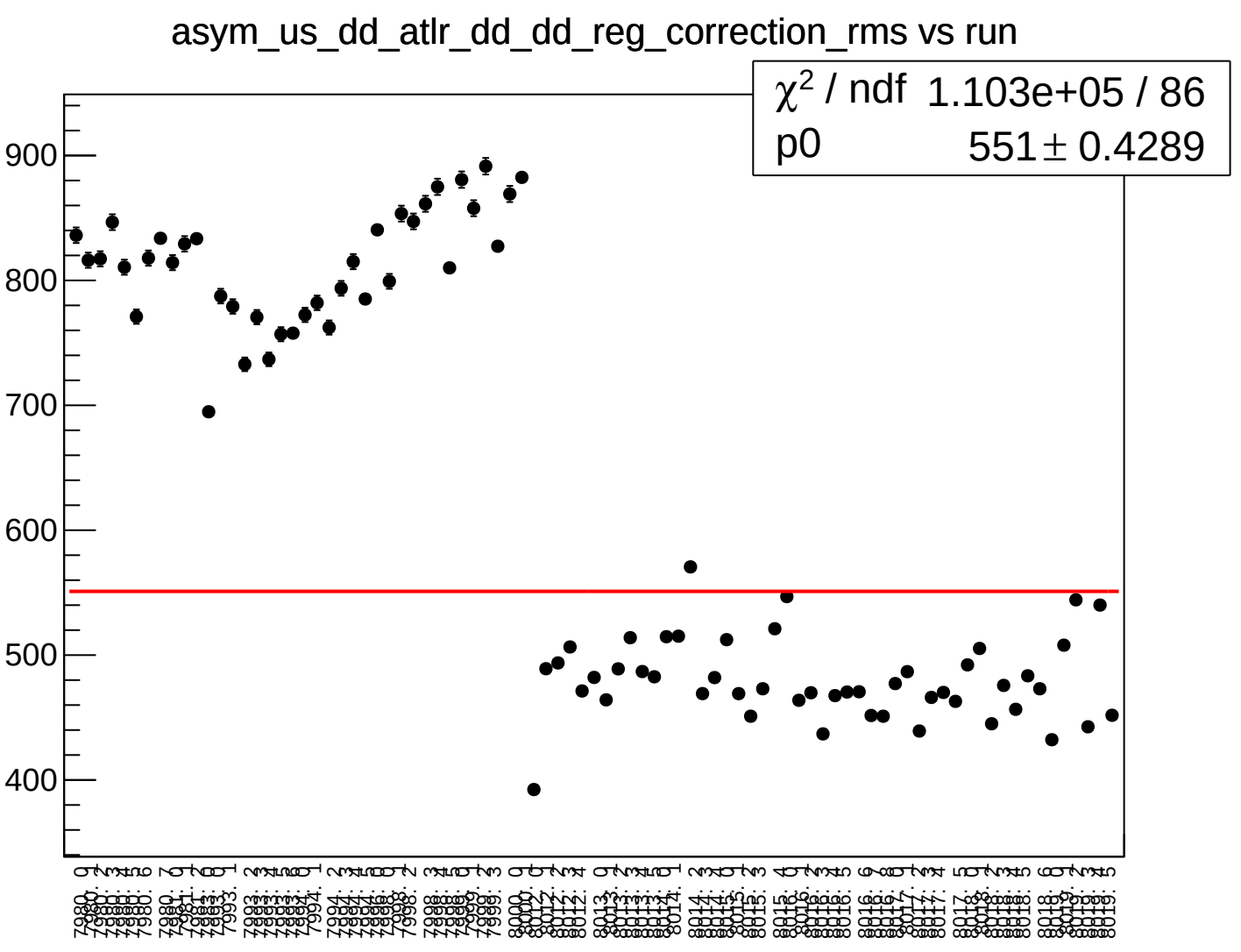

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.858e+05 / 86
p0 1.667e−10 ± 1.538e−13
1.2
1
0.8
0.6
0.4
0.2

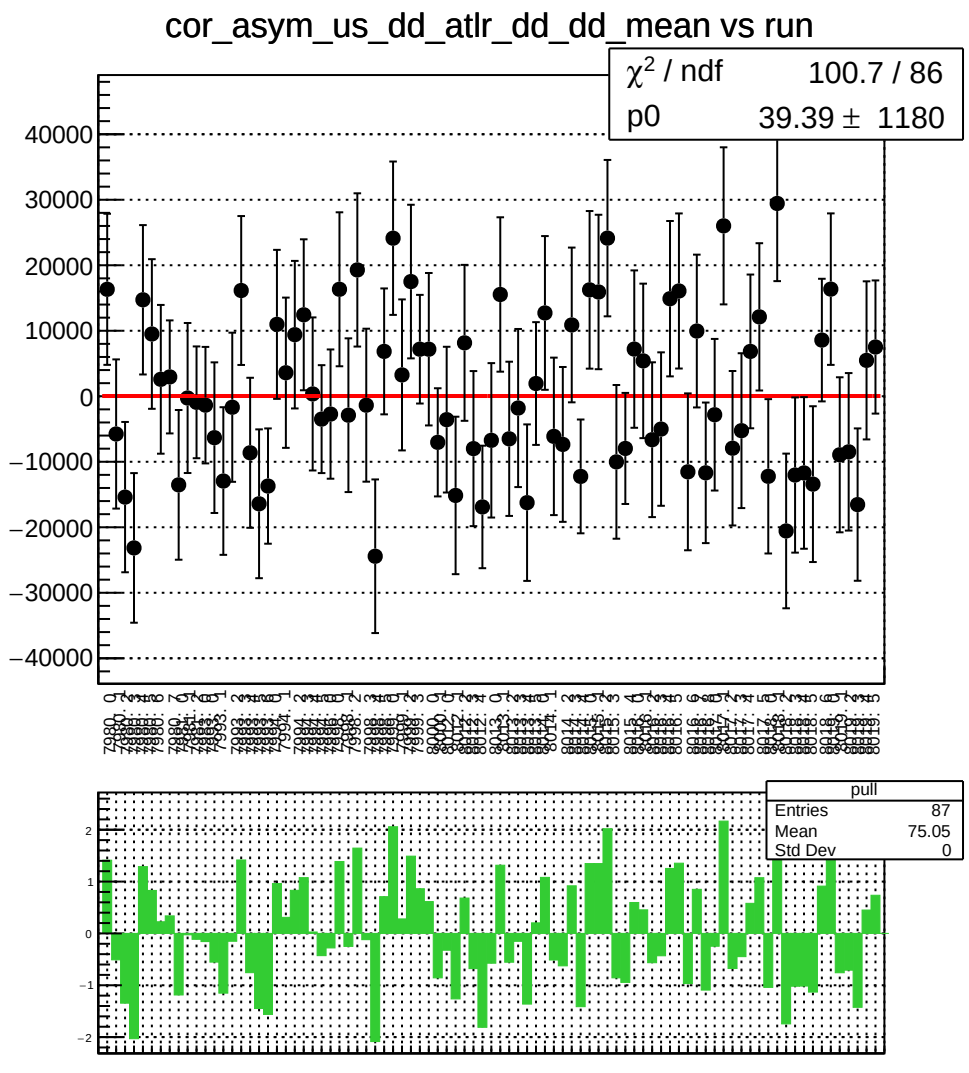

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 100.7 / 86
p0 39.34 ± 1180
pull
Entries 87
Mean 75.07
Std Dev 0

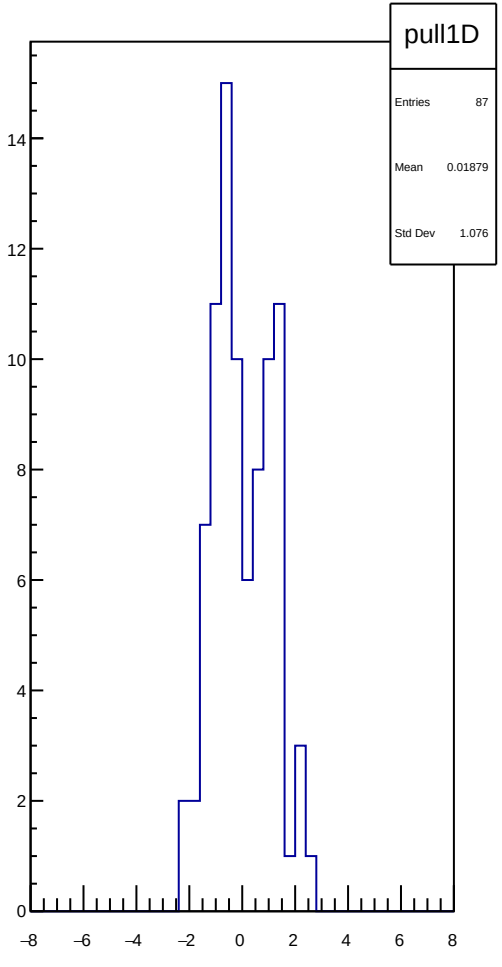

pull1D
Entries 87
Mean 0.01879
Std Dev 1.076

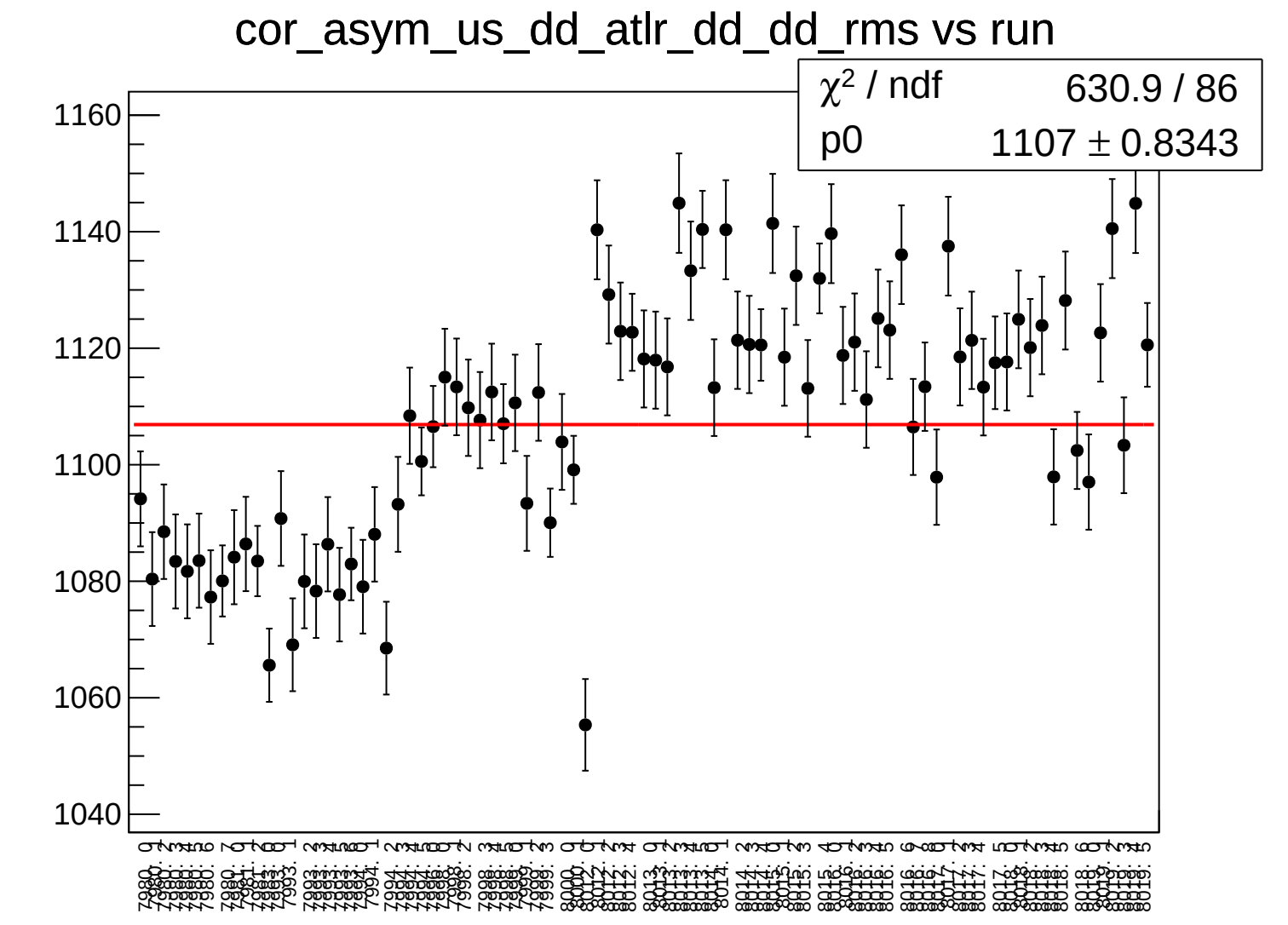

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 630.9 / 86
p0 1107 ± 0.8343
1160
1140
1120
1100
1080
1060
1040

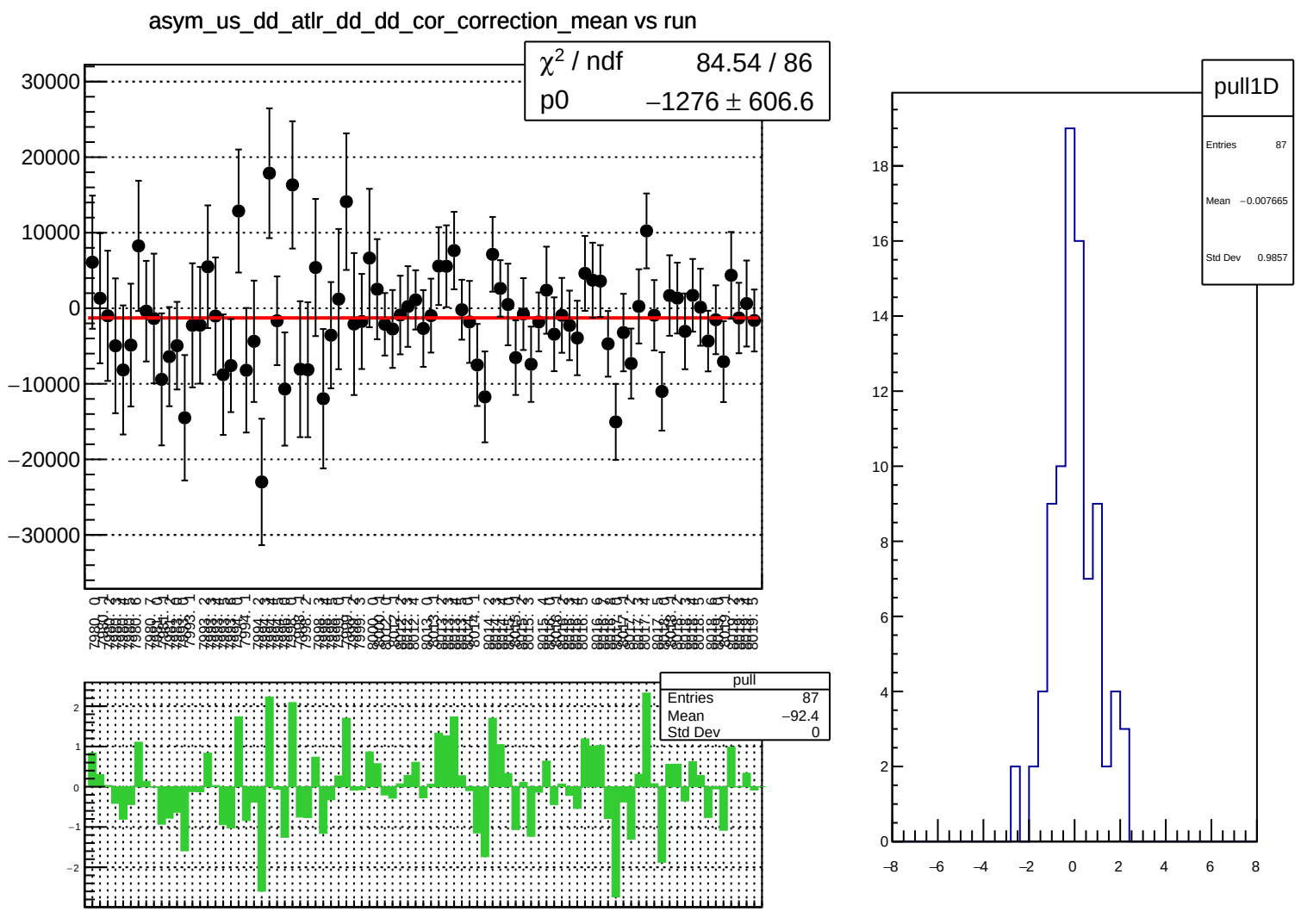

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 84.54 / 86
p0 −1276 ± 606.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −92.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.007671
Std Dev 0.9857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

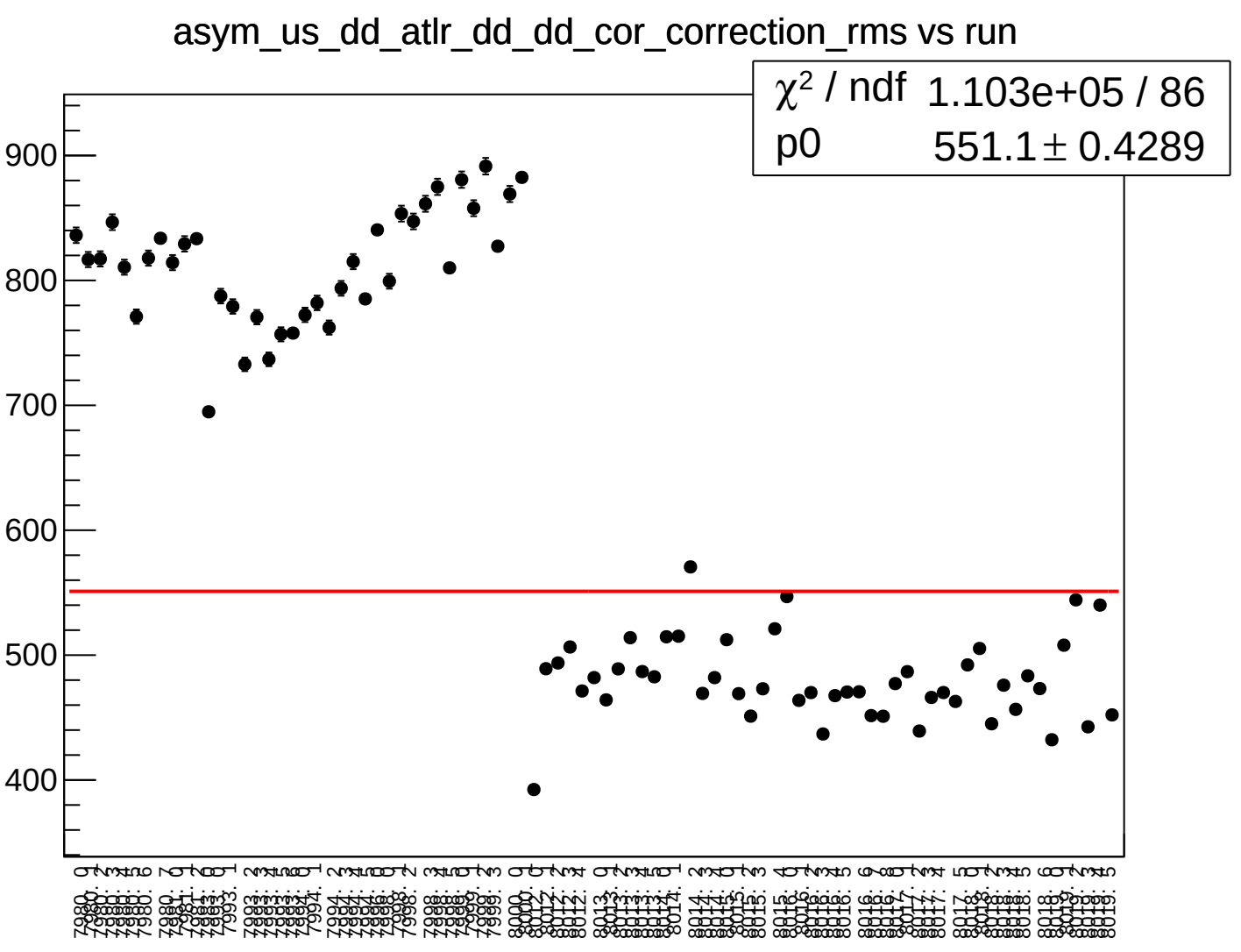

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ^2 / ndf 1.103e+05 / 86
p0 551 ± 0.4289
900
800
700
600
500
400

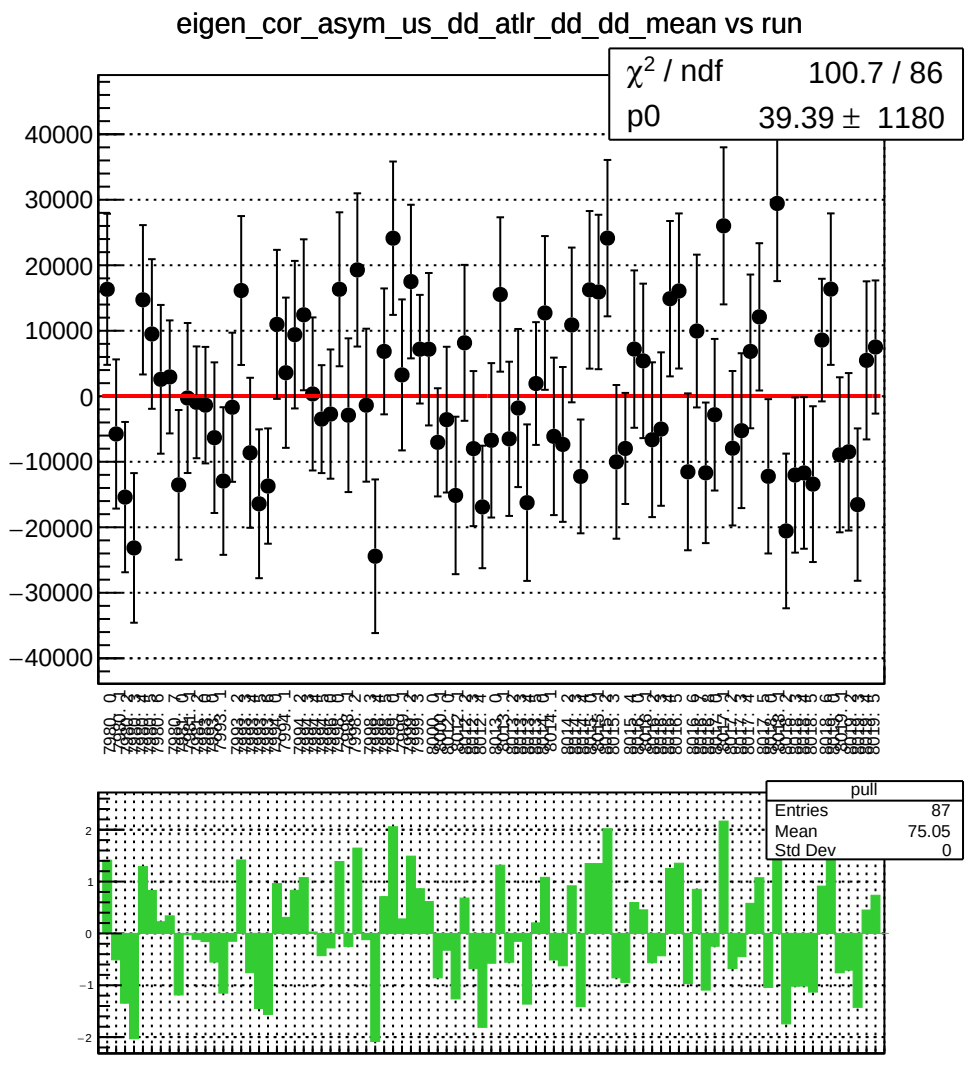

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ^2 / ndf 100.7 / 86
p0 39.39 ± 1180
pull
Entries 87
Mean 75.05
Std Dev 0

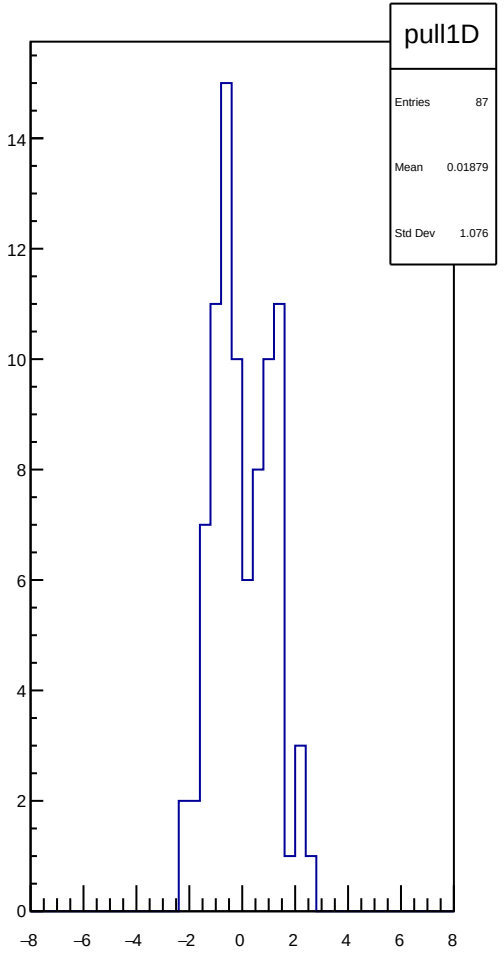

pull1D
Entries 87
Mean 0.01879
Std Dev 1.076

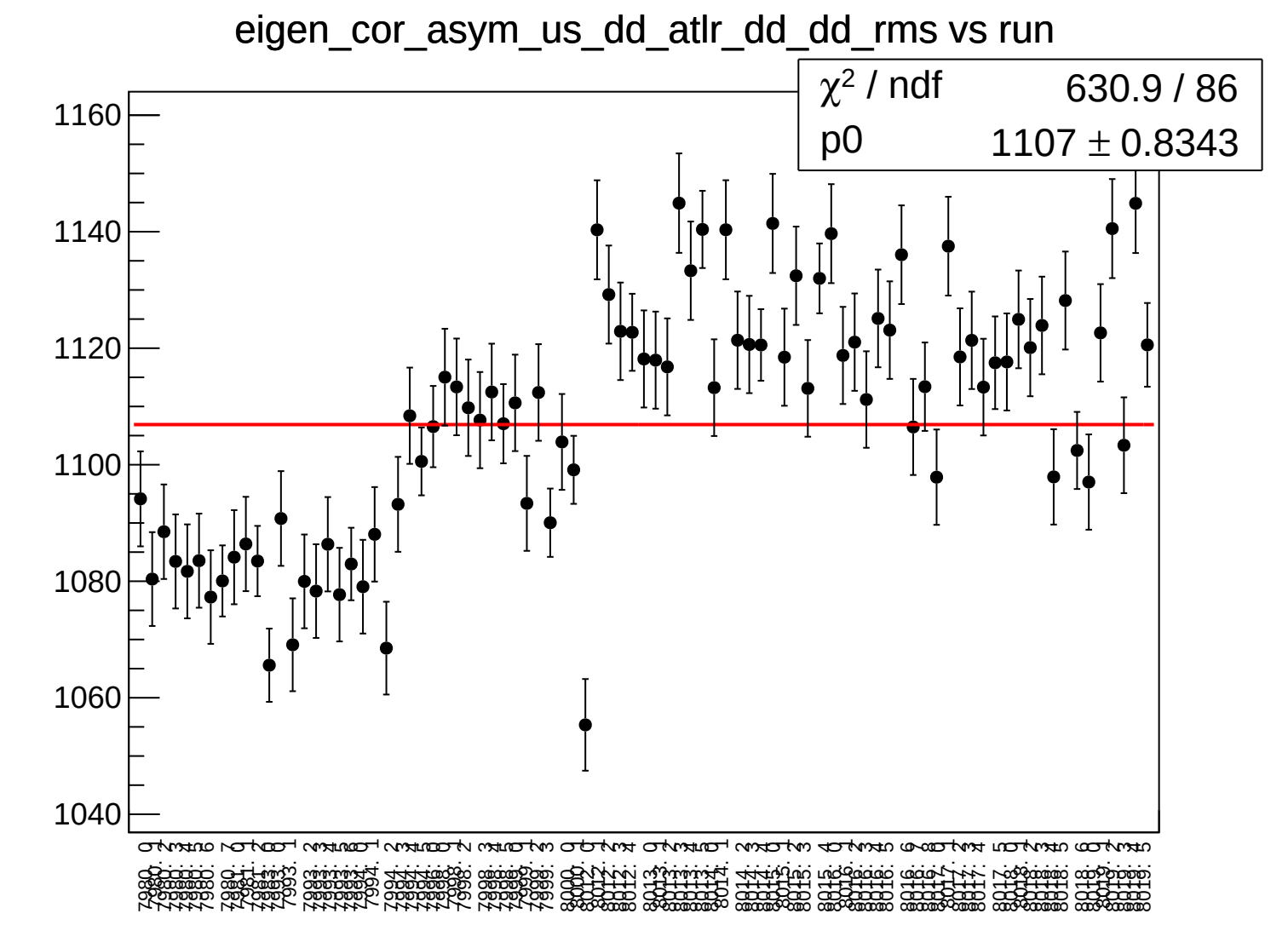

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 630.9 / 86
p0 1107 ± 0.8343
1160
1140
1120
1100
1080
1060
1040

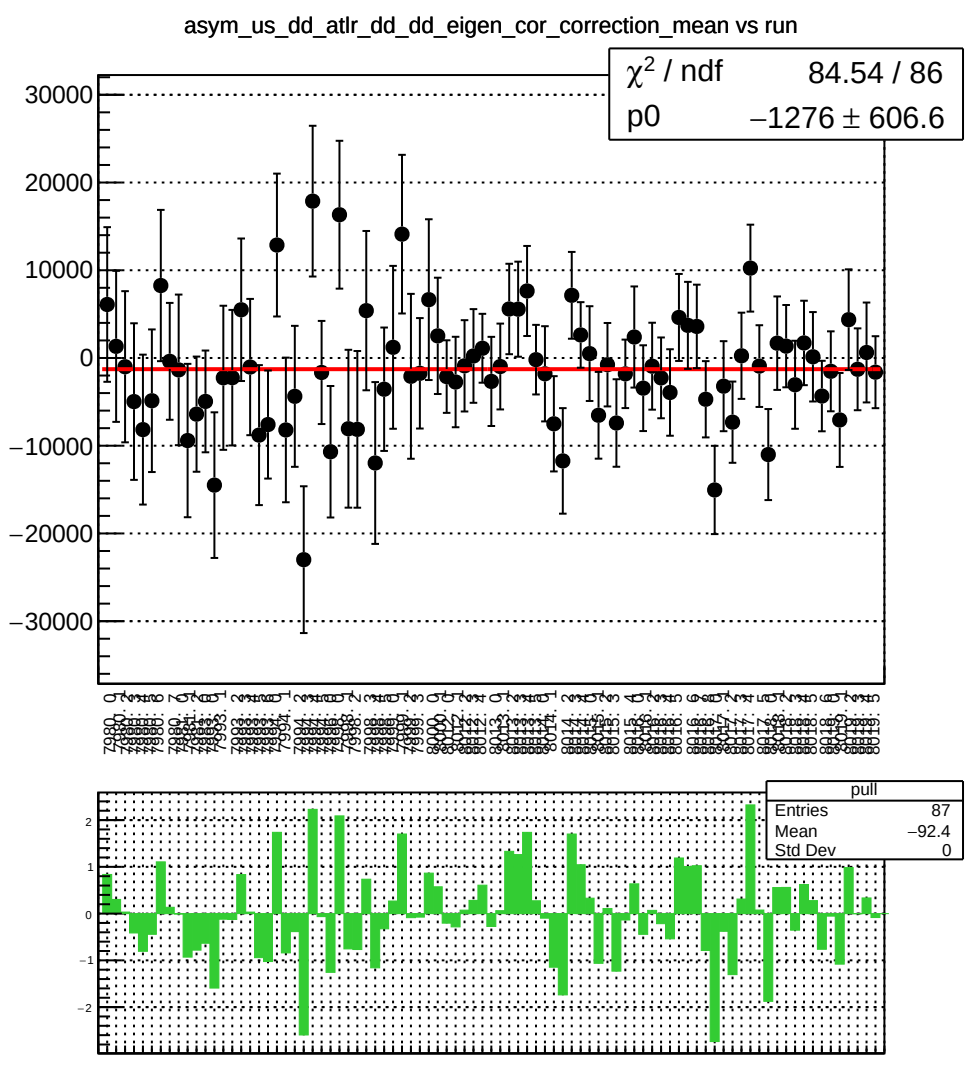

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 84.54 / 86
p0 −1276 ± 606.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −92.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.007665
Std Dev 0.9857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

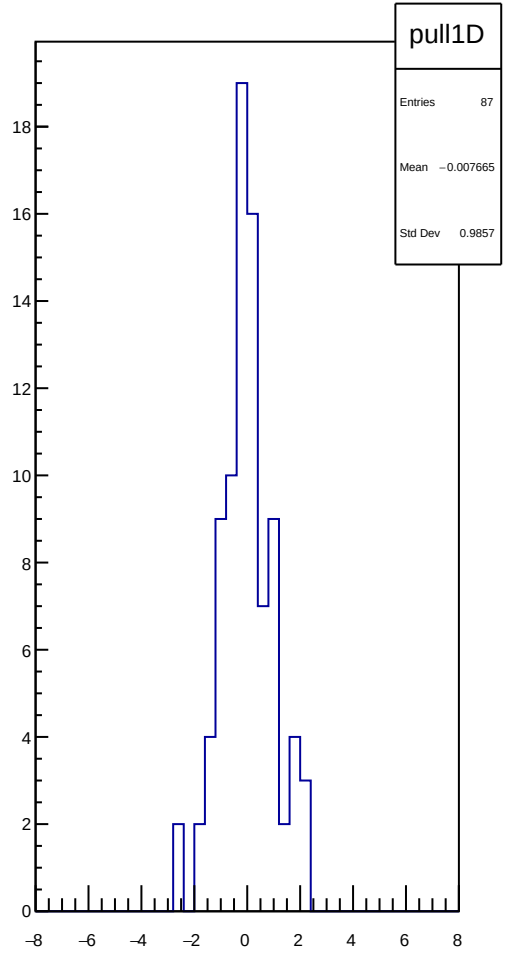

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.103e+05 / 86
p0 551.1 ± 0.4289
900
800
700
600
500
400

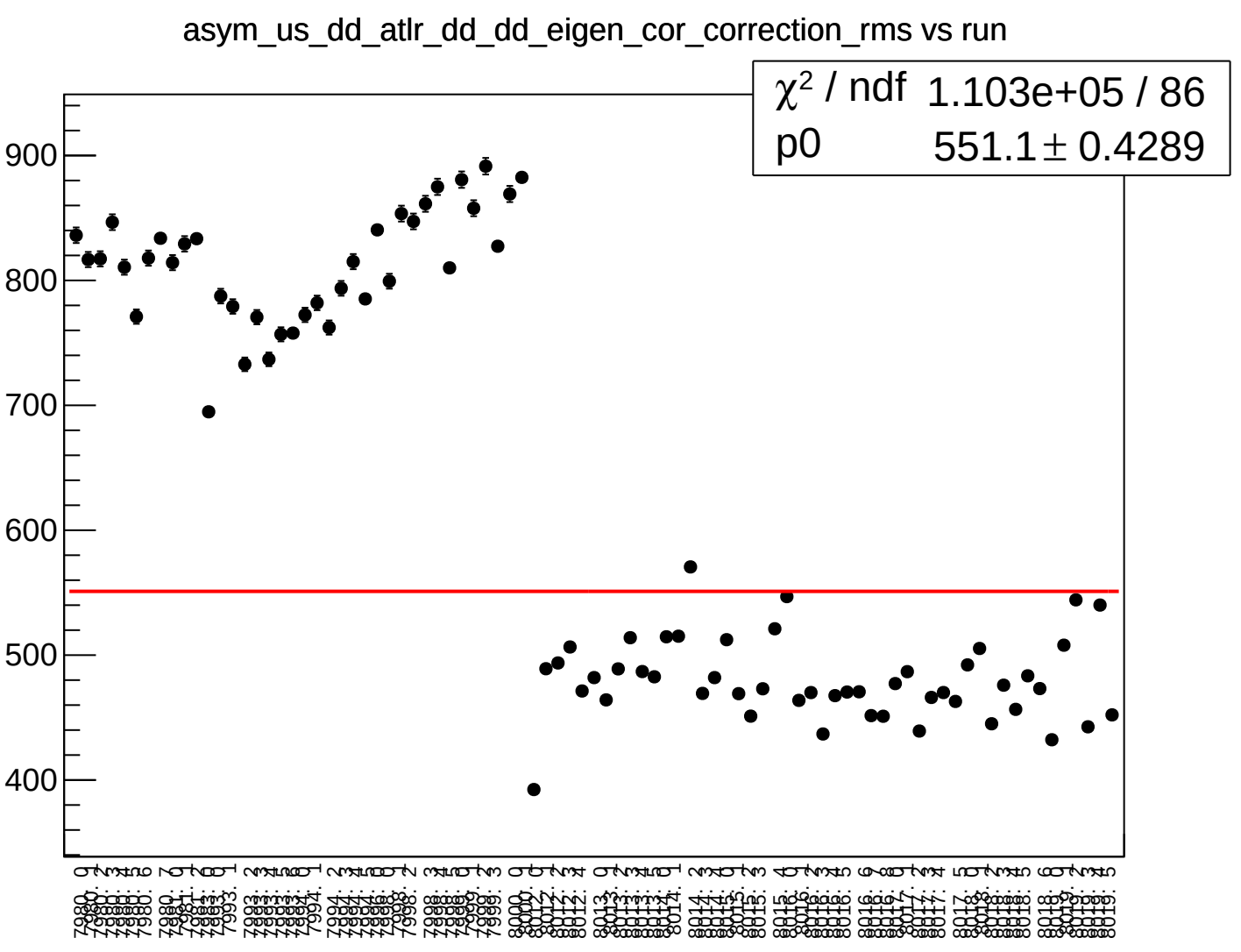

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 100.7 / 86
p0 39.39 ± 1180
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean 75.05
Std Dev 0
2
1
0
−1
−2

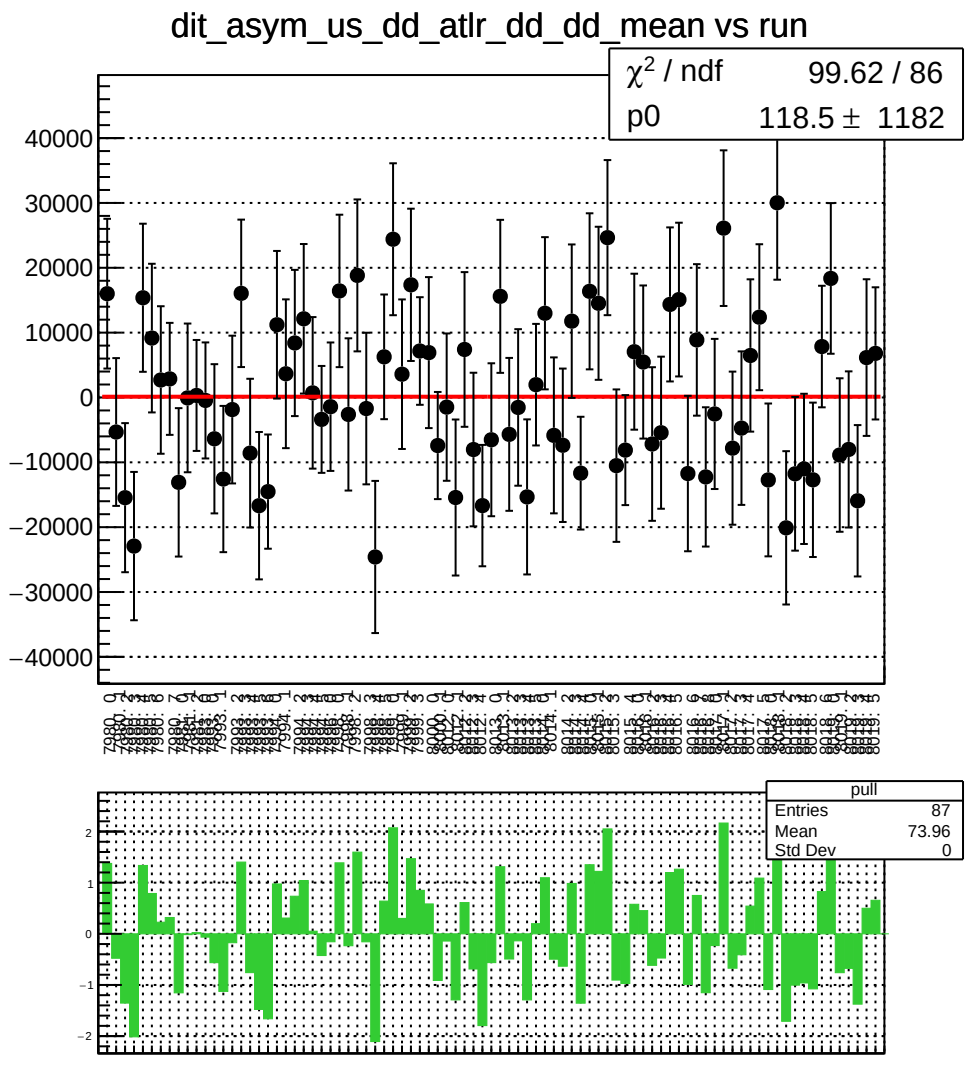

pull1D
Entries 87
Mean 0.01879
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

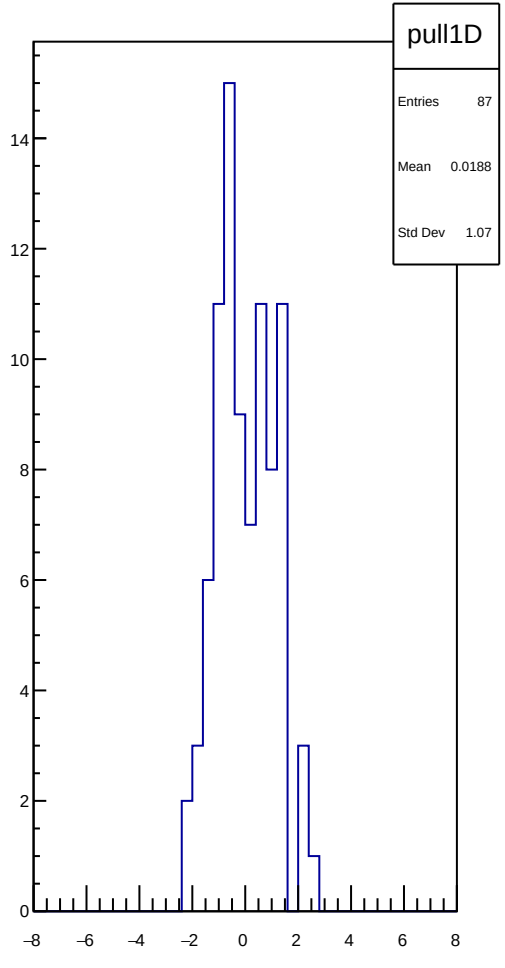

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 630.9 / 86
p0 1107 ± 0.8343
1160
1140
1120
1100
1080
1060
1040

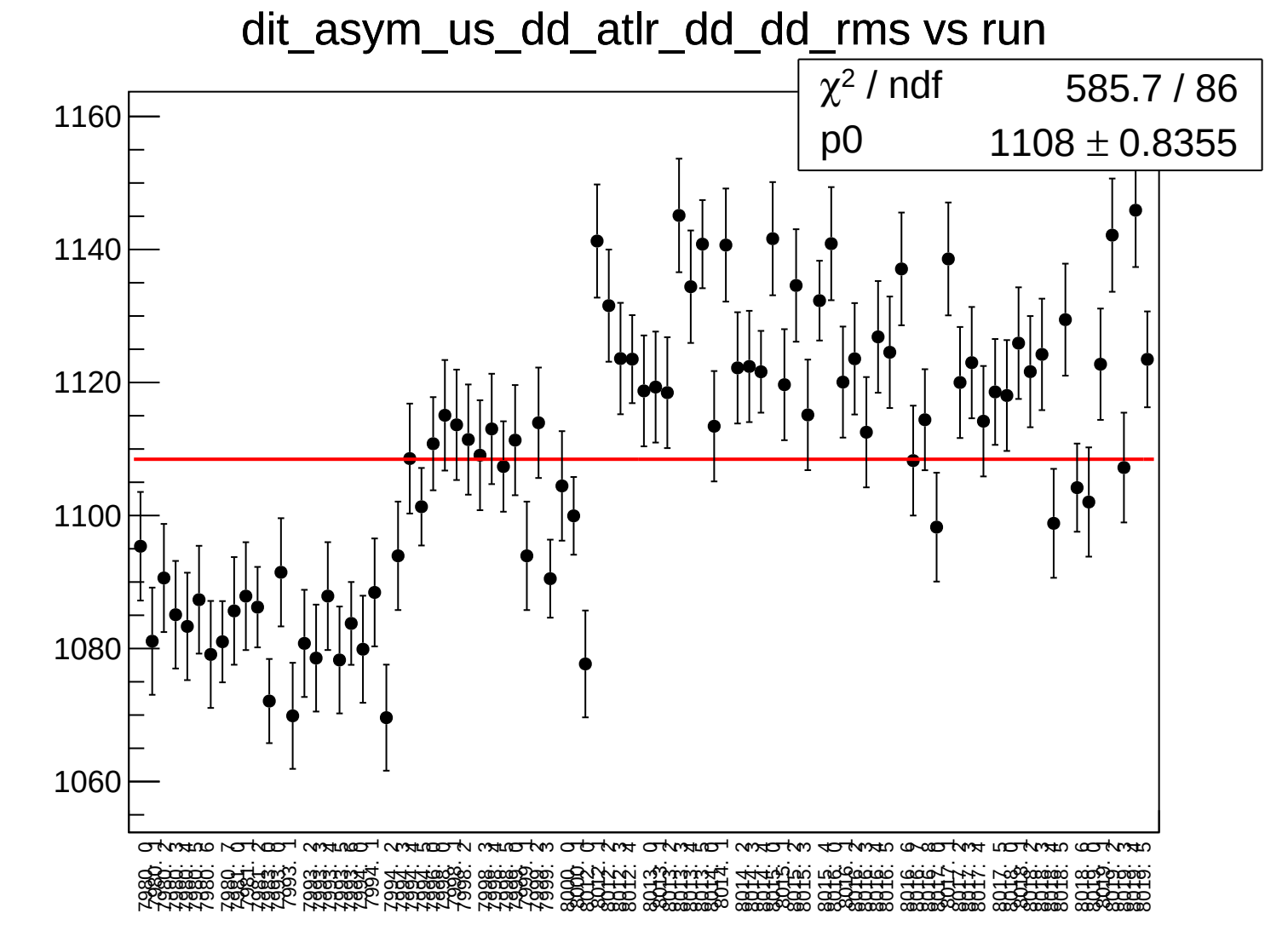

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.54 / 86
p0 −1276 ± 606.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −92.4
Std Dev 0
2
1
0
−1
−2

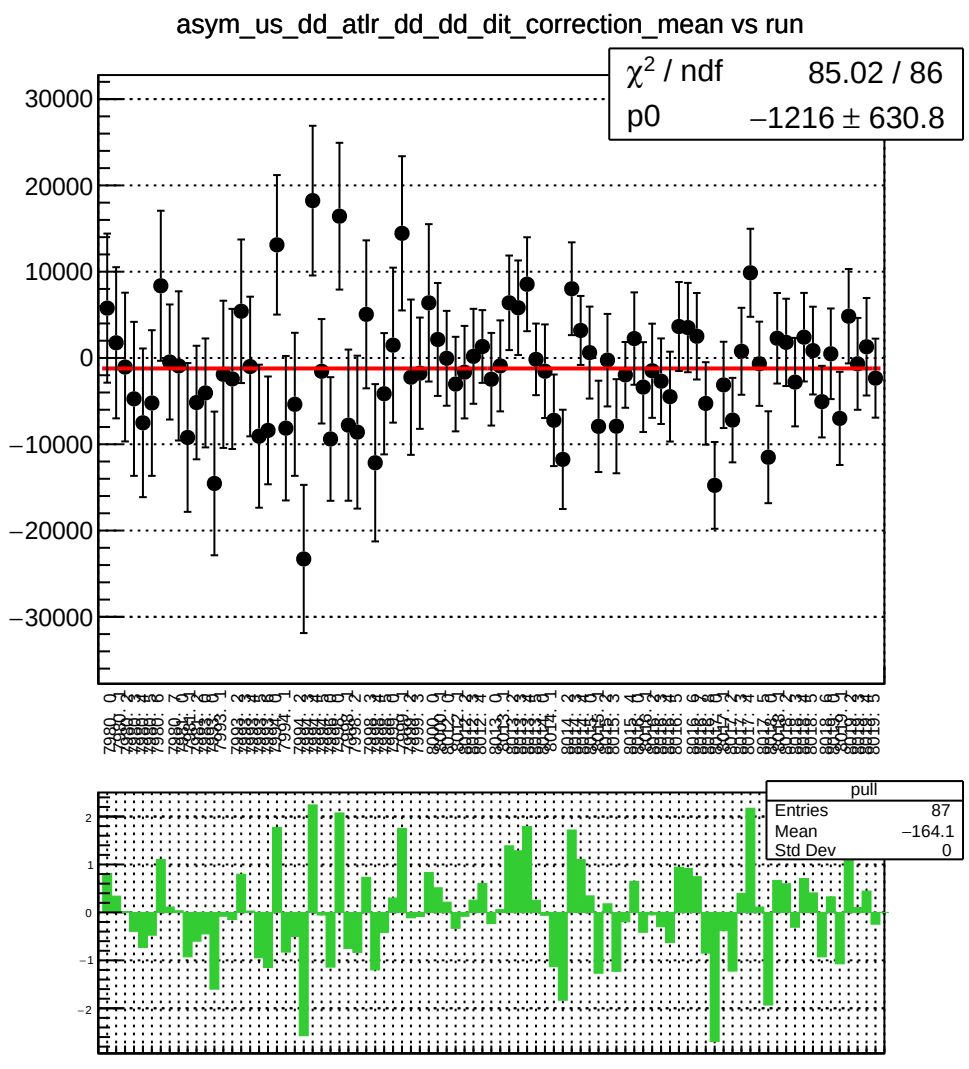

pull1D
Entries 87
Mean −0.007665
Std Dev 0.9857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

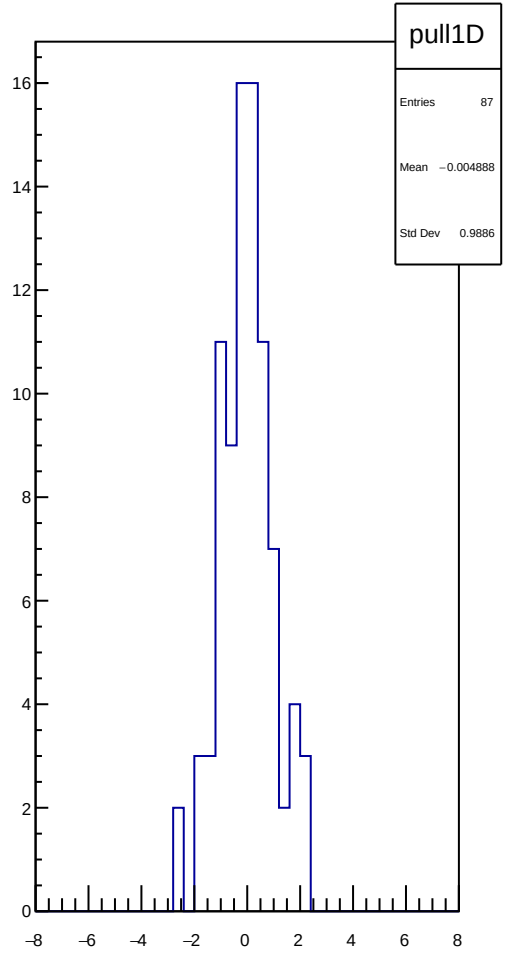

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.103e+05 / 86
p0 551.1 ± 0.4289
900
800
700
600
500
400

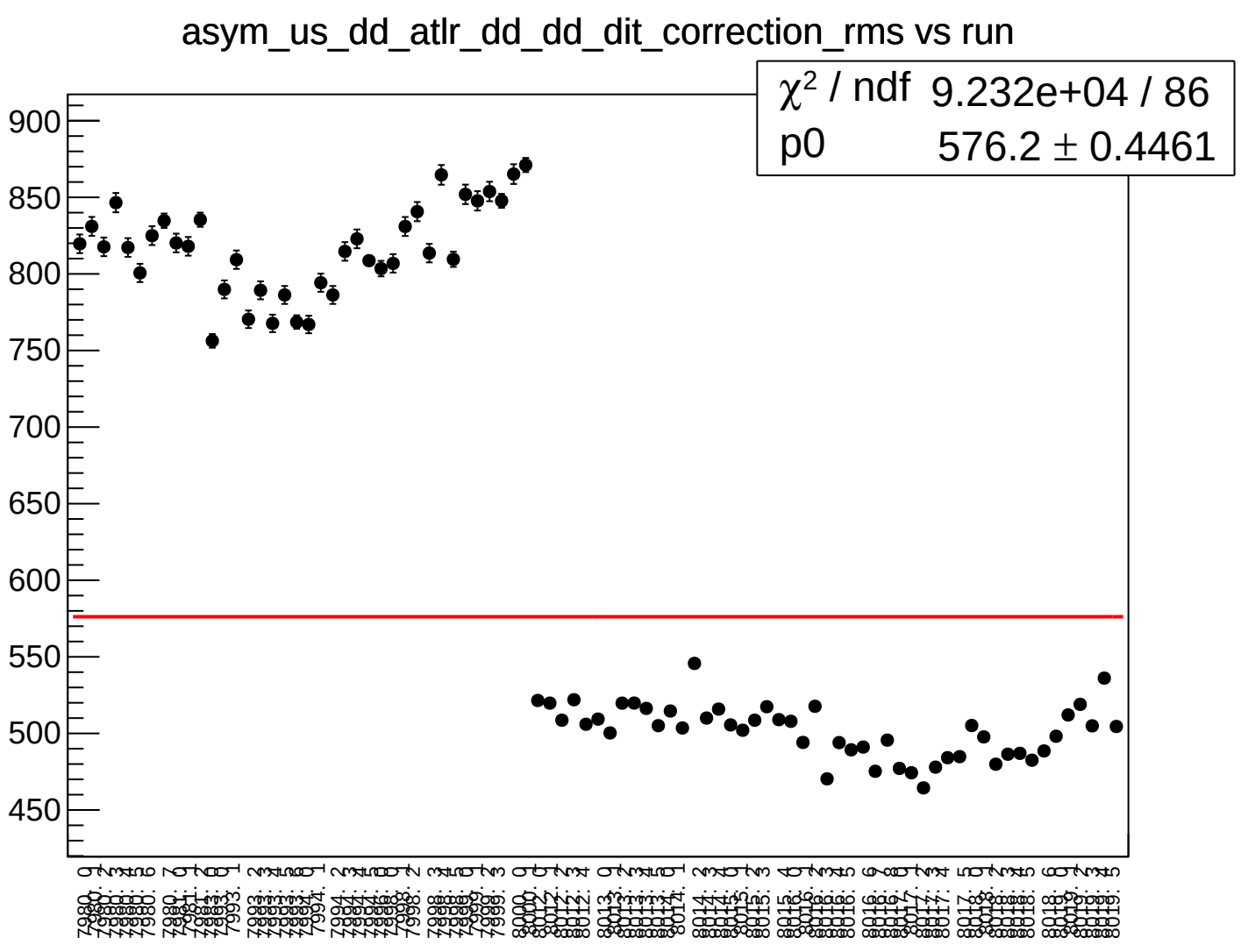

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 99.62 / 86
p0 118.5 ± 1182
pull
Entries 87
Mean 73.96
Std Dev 0

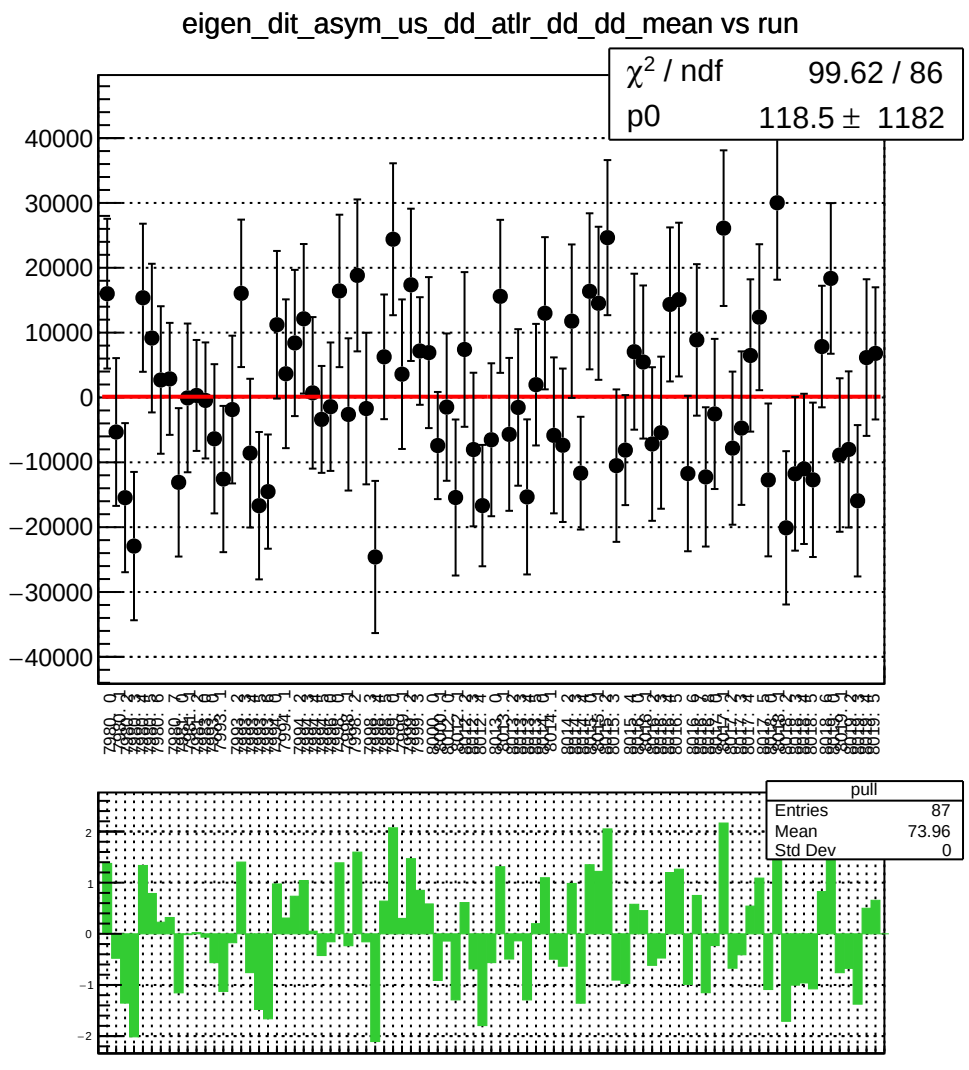

pull1D
Entries 87
Mean 0.0188
Std Dev 1.07

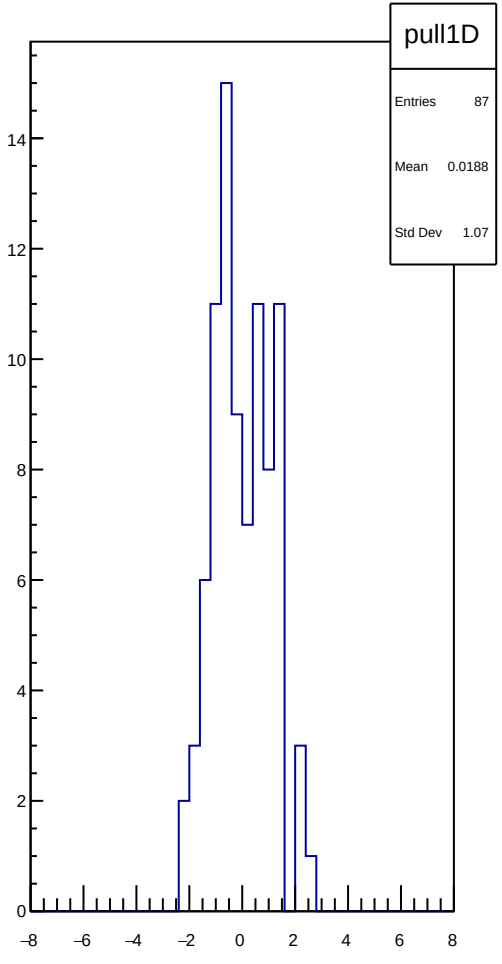

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 585.7 / 86
p0 1108 ± 0.8355
1160
1140
1120
1100
1080
1060

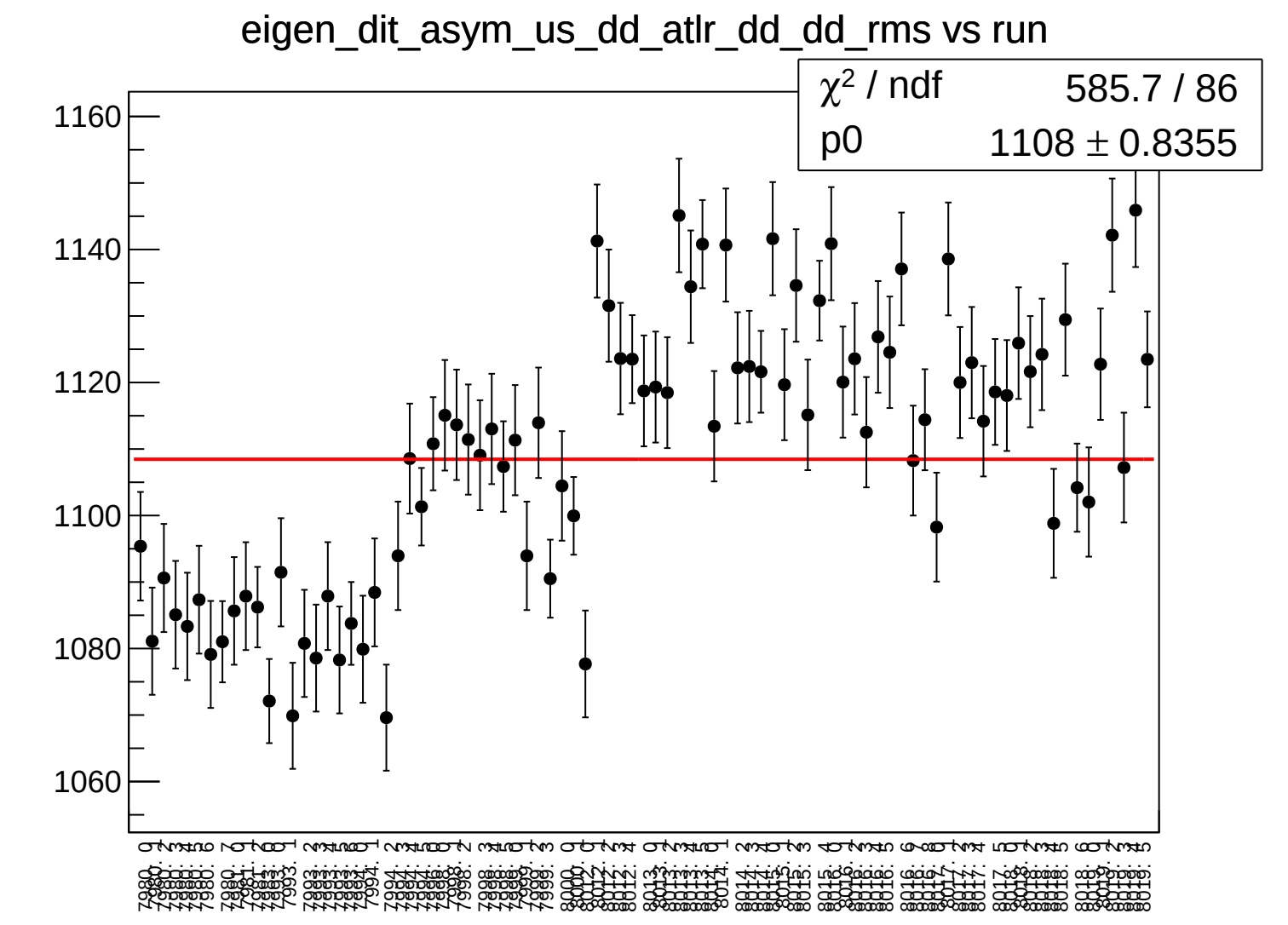

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 85.02 / 86
p0 −1216 ± 630.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −164.1
Std Dev 0
2
1
0
−1
−2

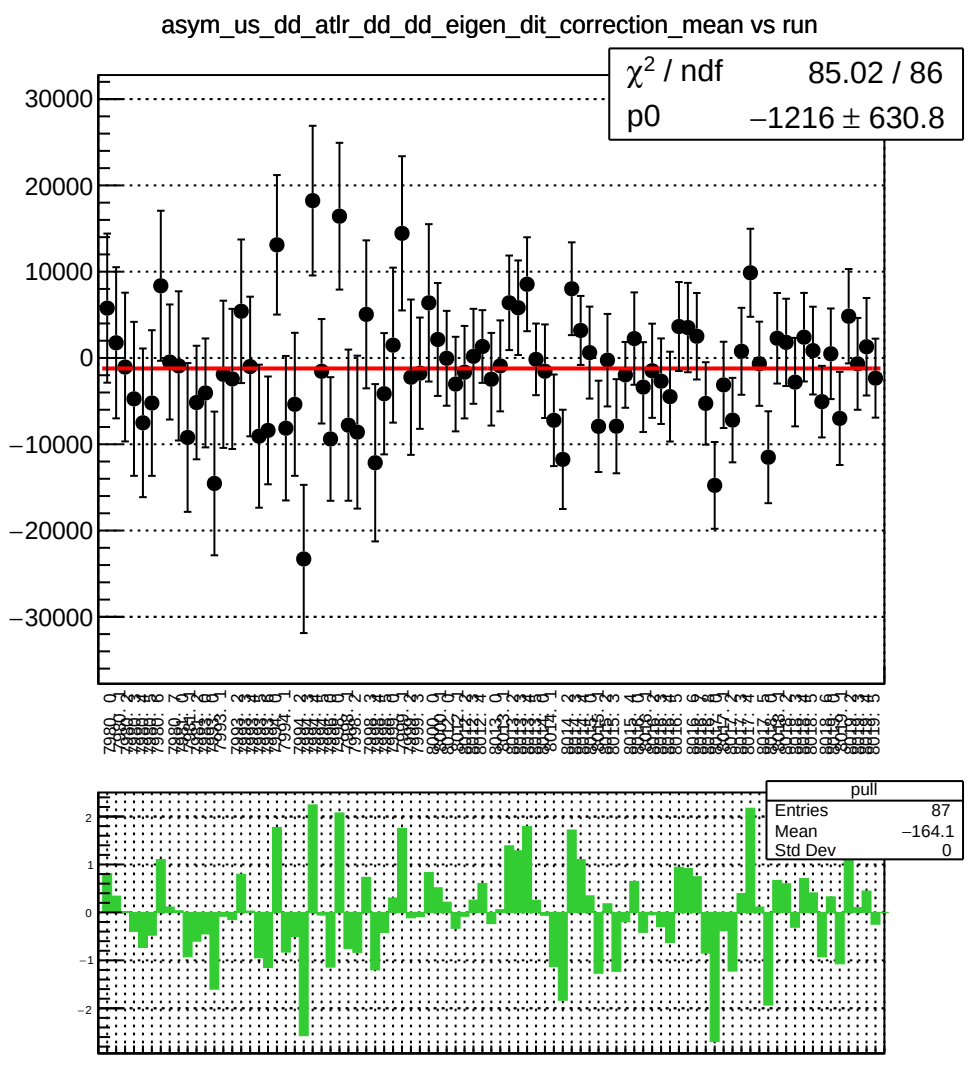

pull1D
Entries 87
Mean −0.004888
Std Dev 0.9886
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

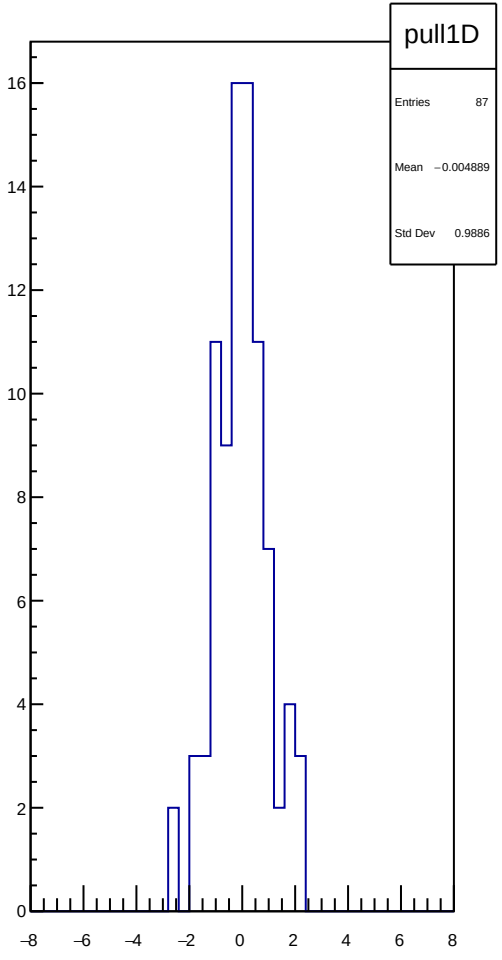

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 9.232e+04 / 86
p0 576.2 ± 0.4461
900
850
800
750
700
650
600
550
500
450

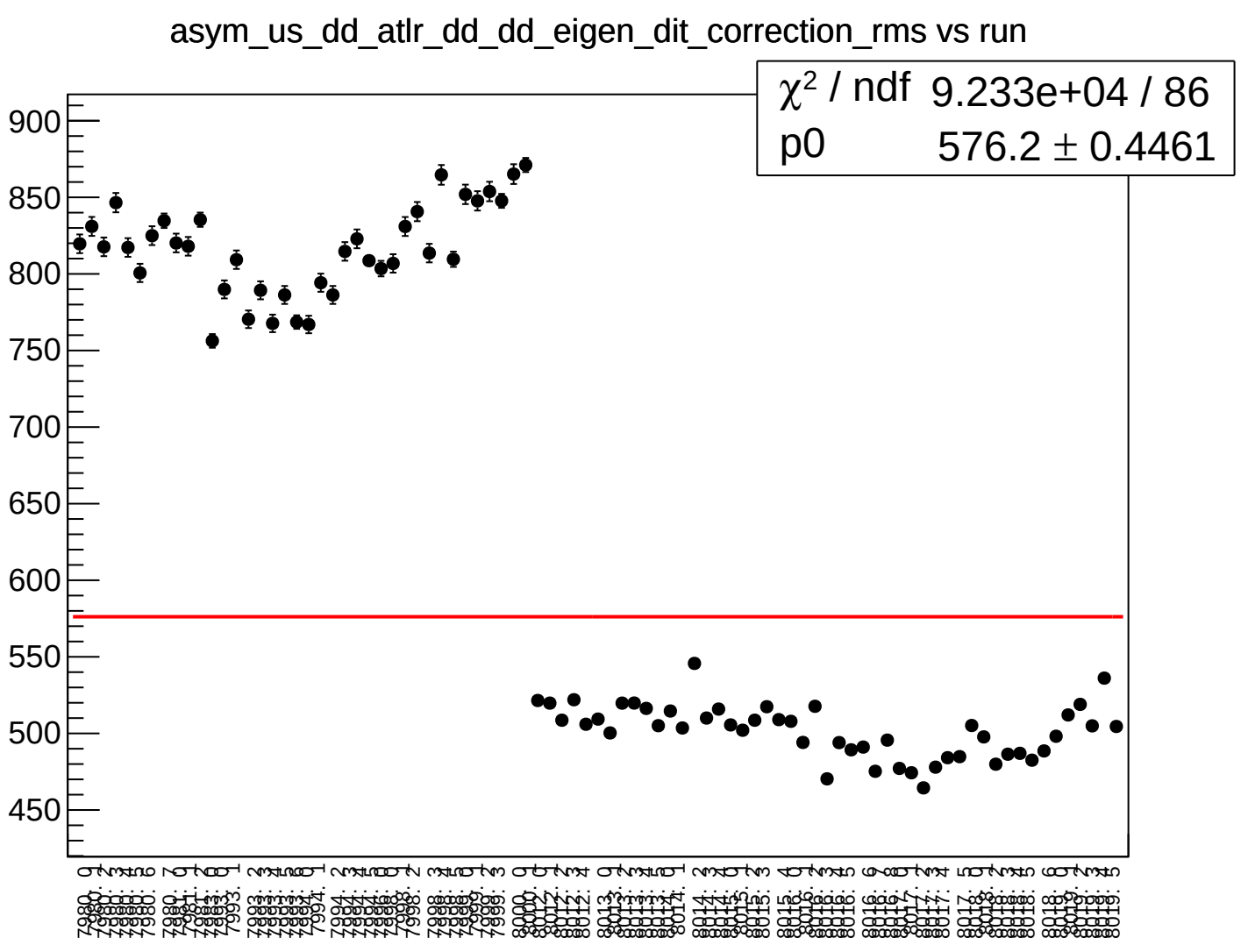

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 99.62 / 86
p0 118.5 ± 1182
pull
Entries 87
Mean 73.96
Std Dev 0

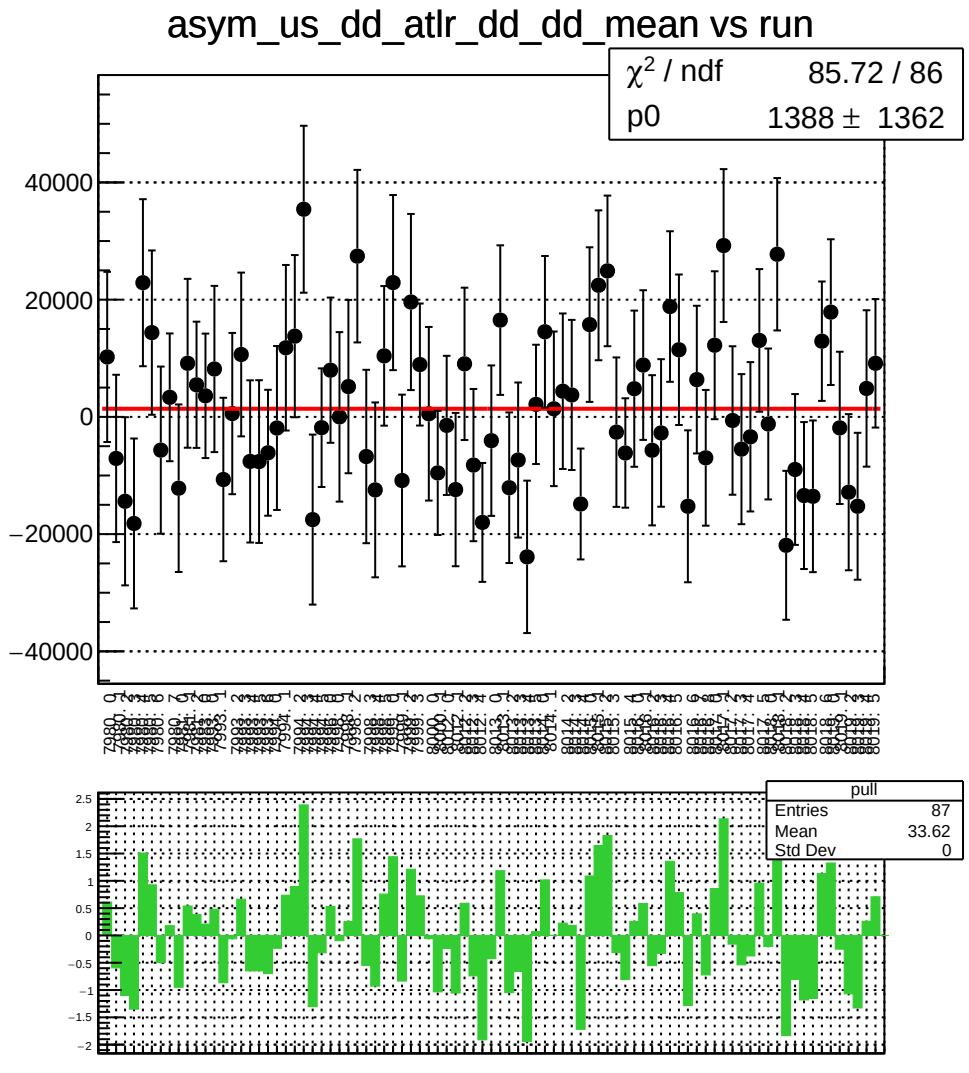

pull1D
Entries 87
Mean 0.0188
Std Dev 1.07

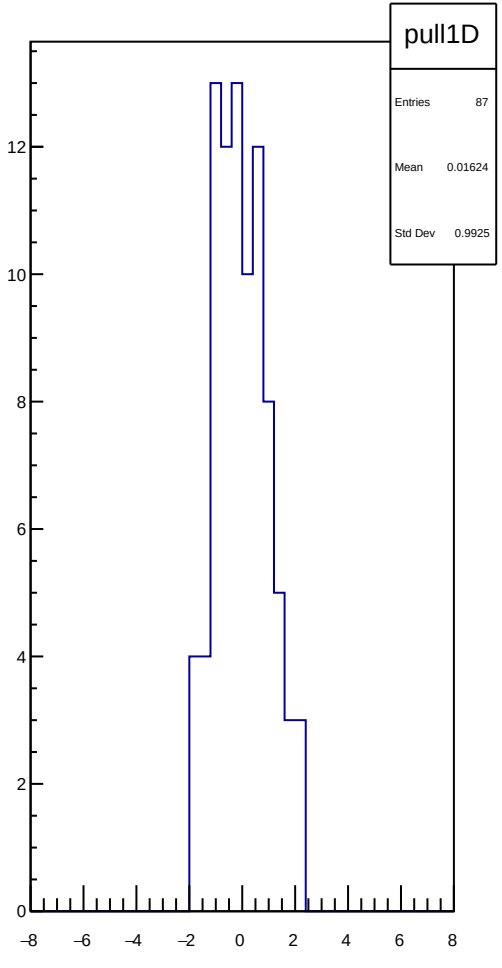

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 585.7 / 86
p0 1108 ± 0.8355
1160
1140
1120
1100
1080
1060

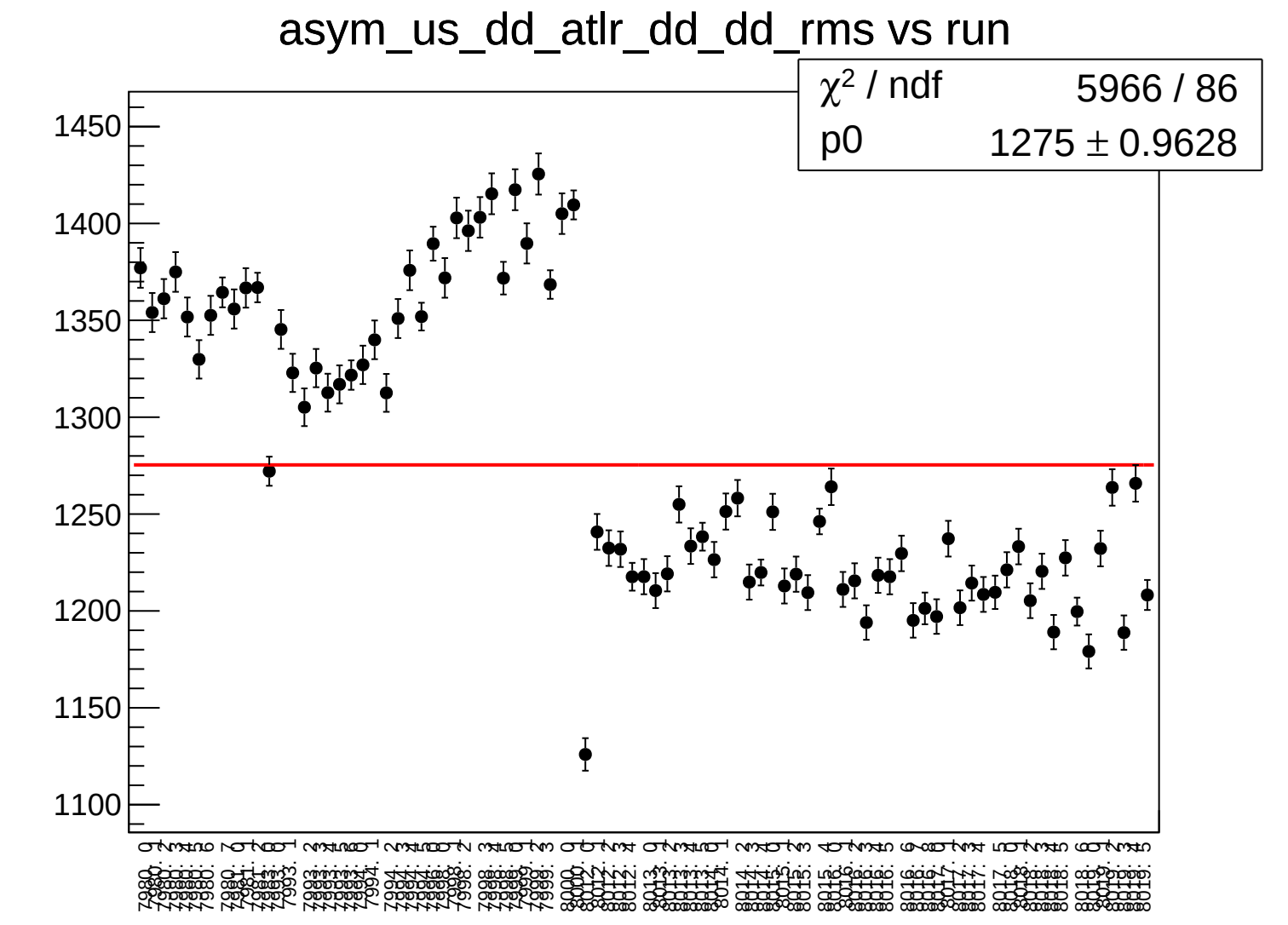

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.02 / 86
p0 −1216 ± 630.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −164.1
Std Dev 0
2
1
0
−1
−2

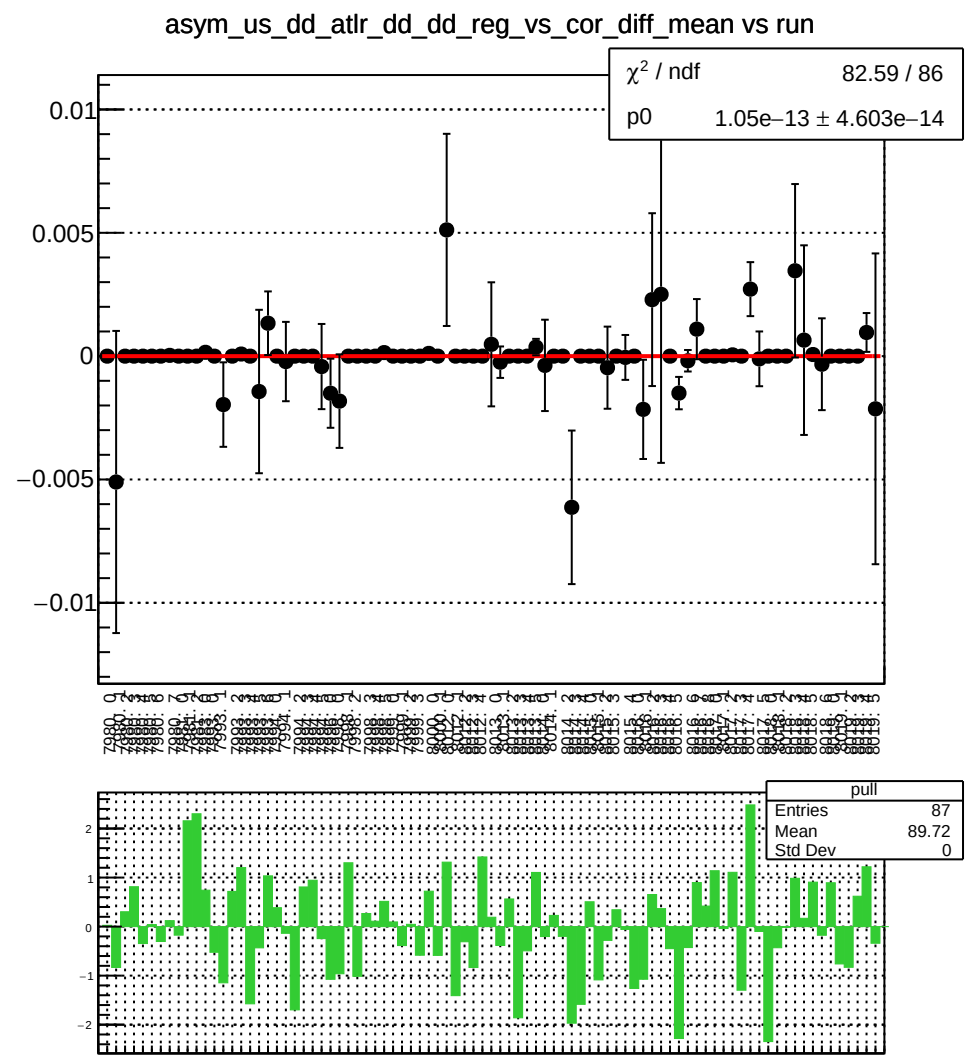

pull1D
Entries 87
Mean −0.004889
Std Dev 0.9886
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

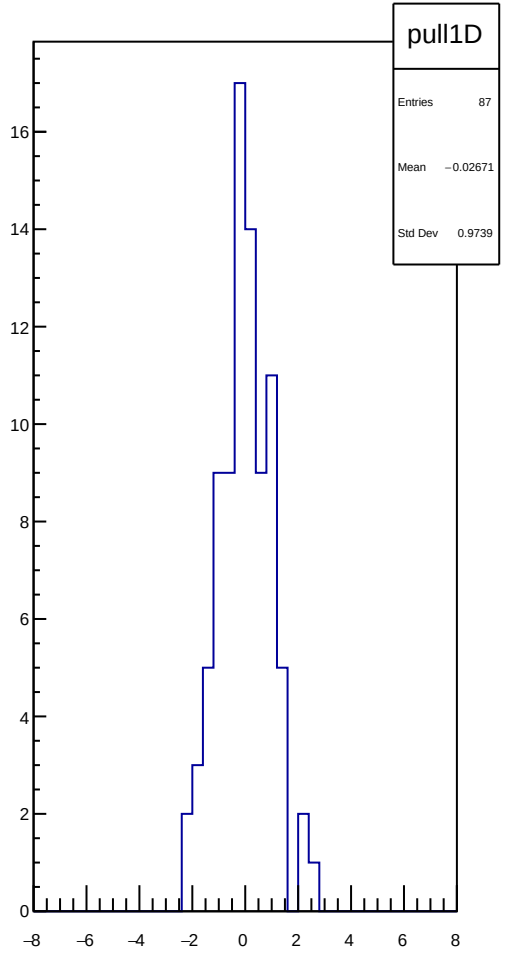

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 9.233e+04 / 86
p0 576.2 ± 0.4461
900
850
800
750
700
650
600
550
500
450

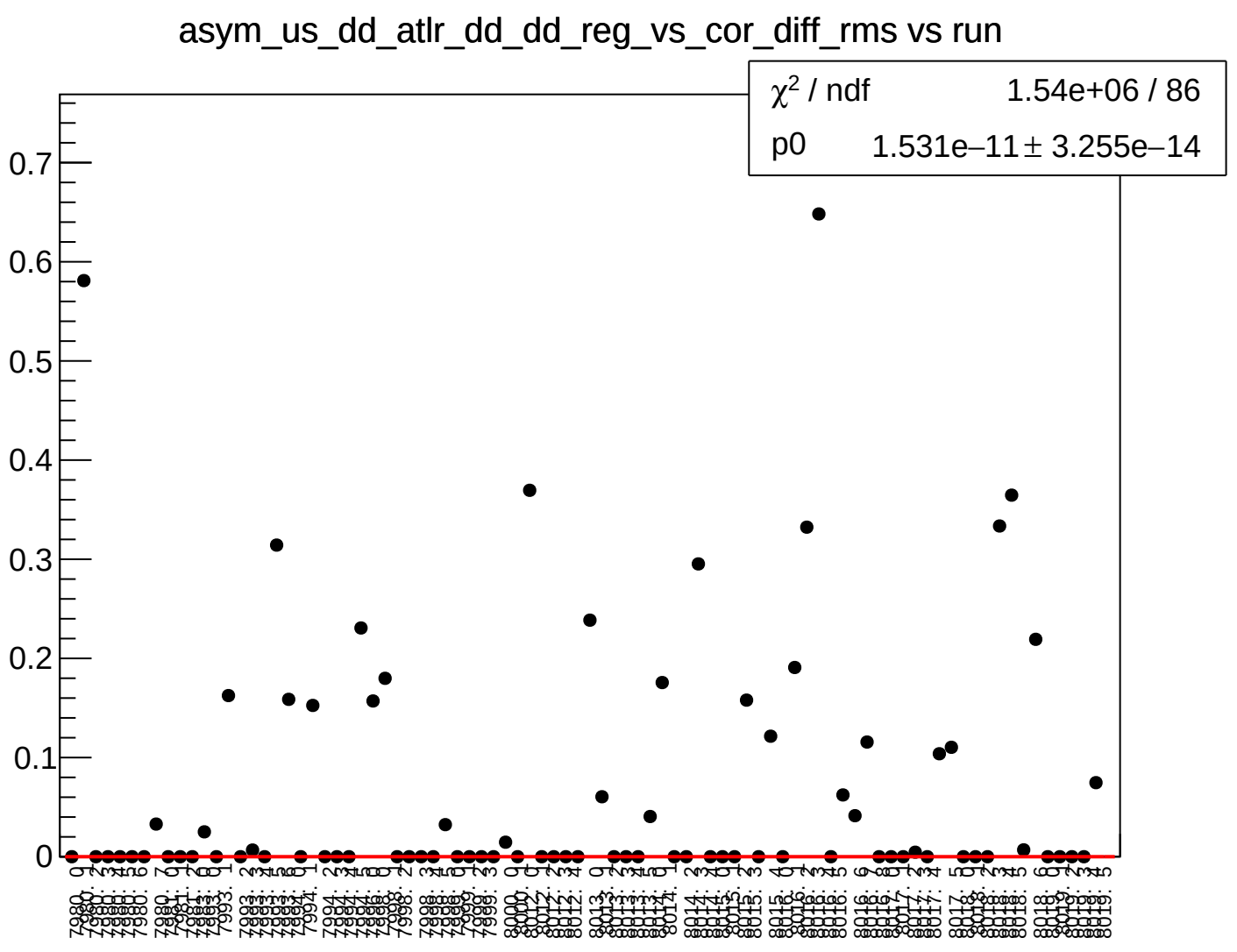

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 85.72 / 86
p0 1388 ± 1362
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 33.62
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

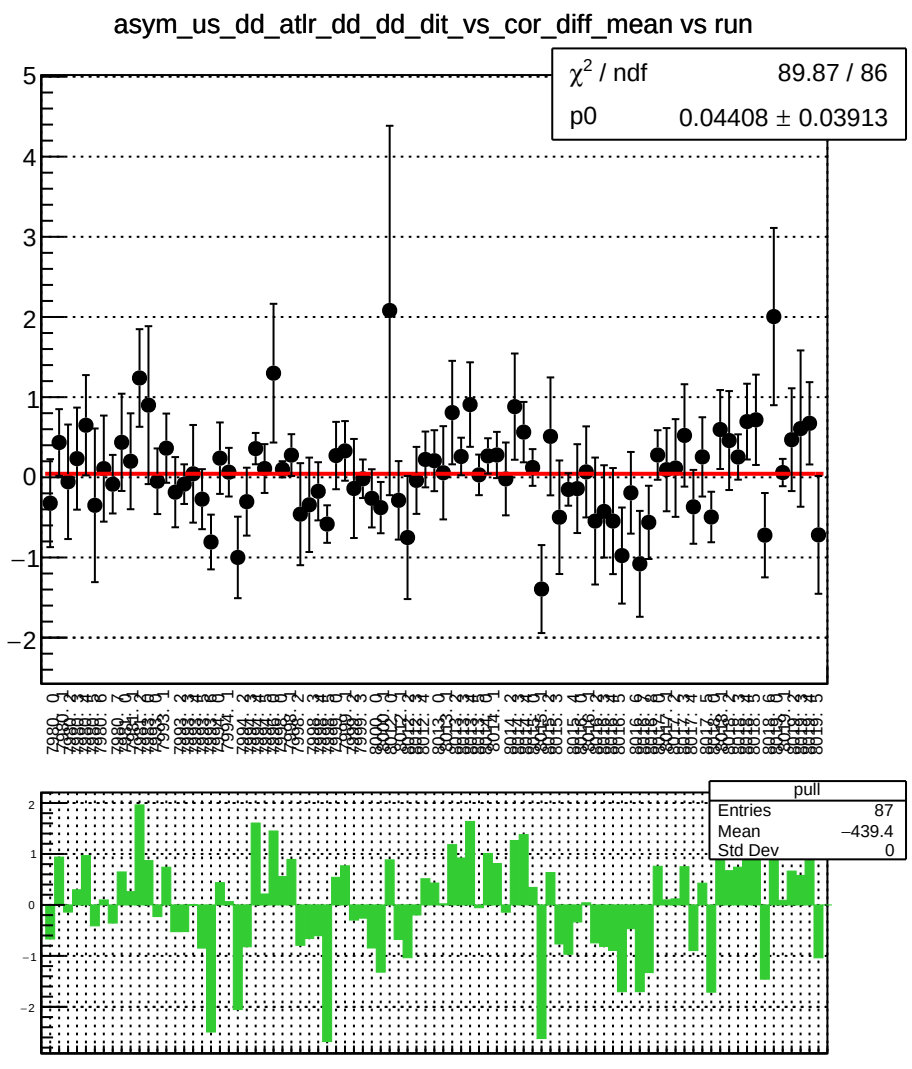

pull1D
Entries 87
Mean 0.01624
Std Dev 0.9925
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

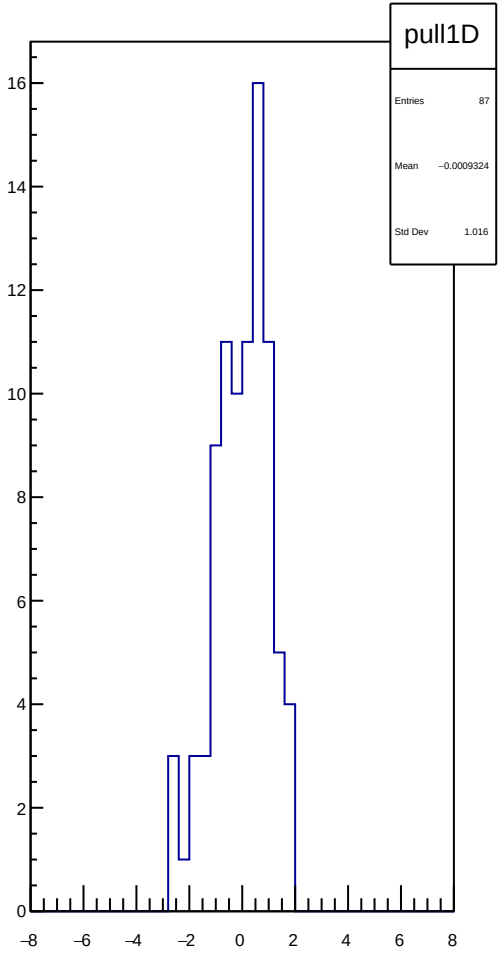

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 5966 / 86
p0 1275 ± 0.9628
1450
1400
1350
1300
1250
1200
1150
1100

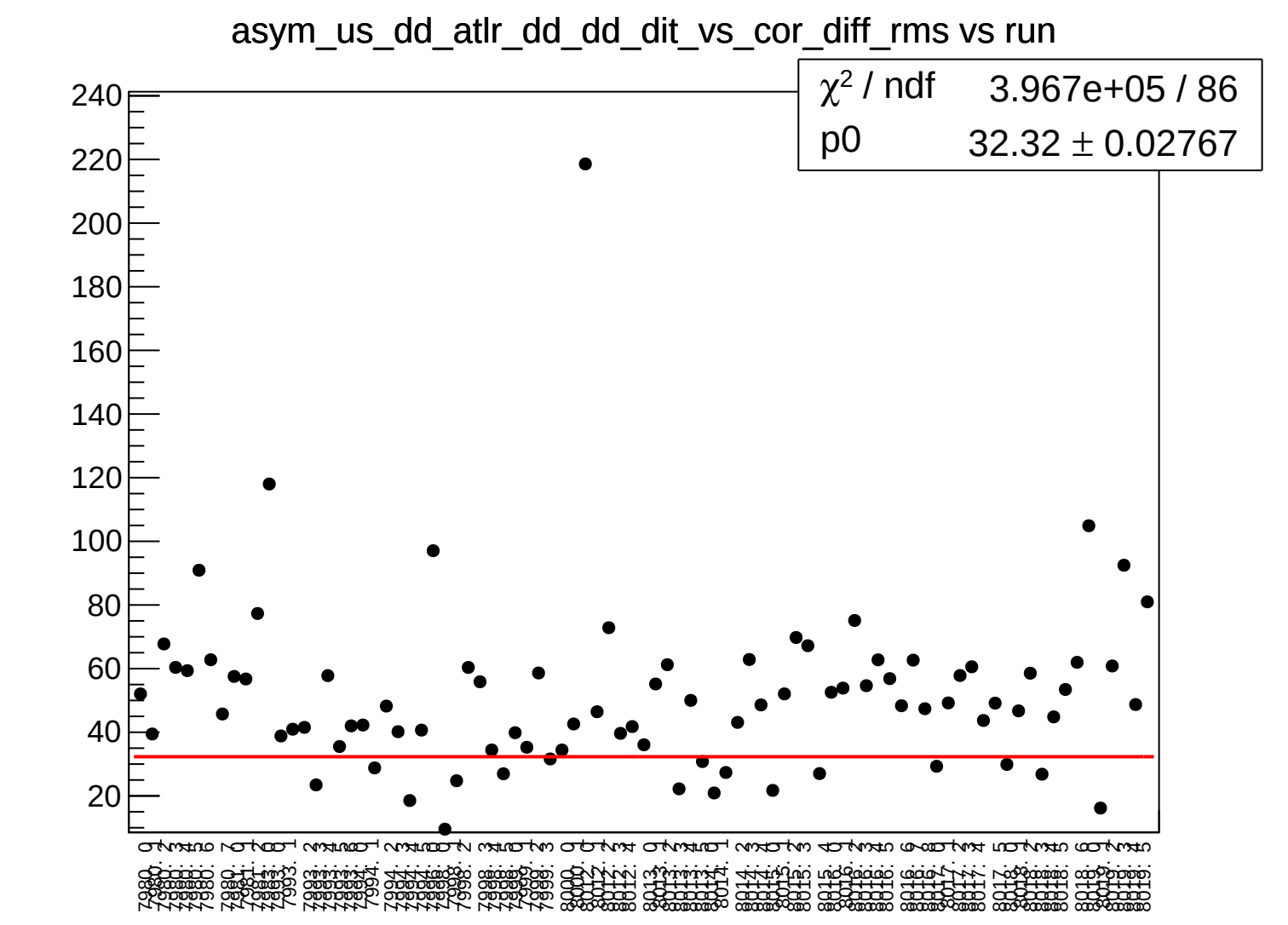

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.59 / 86
p0 1.05e−13 ± 4.603e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 89.72
Std Dev 0
2
1
0
−1
−2

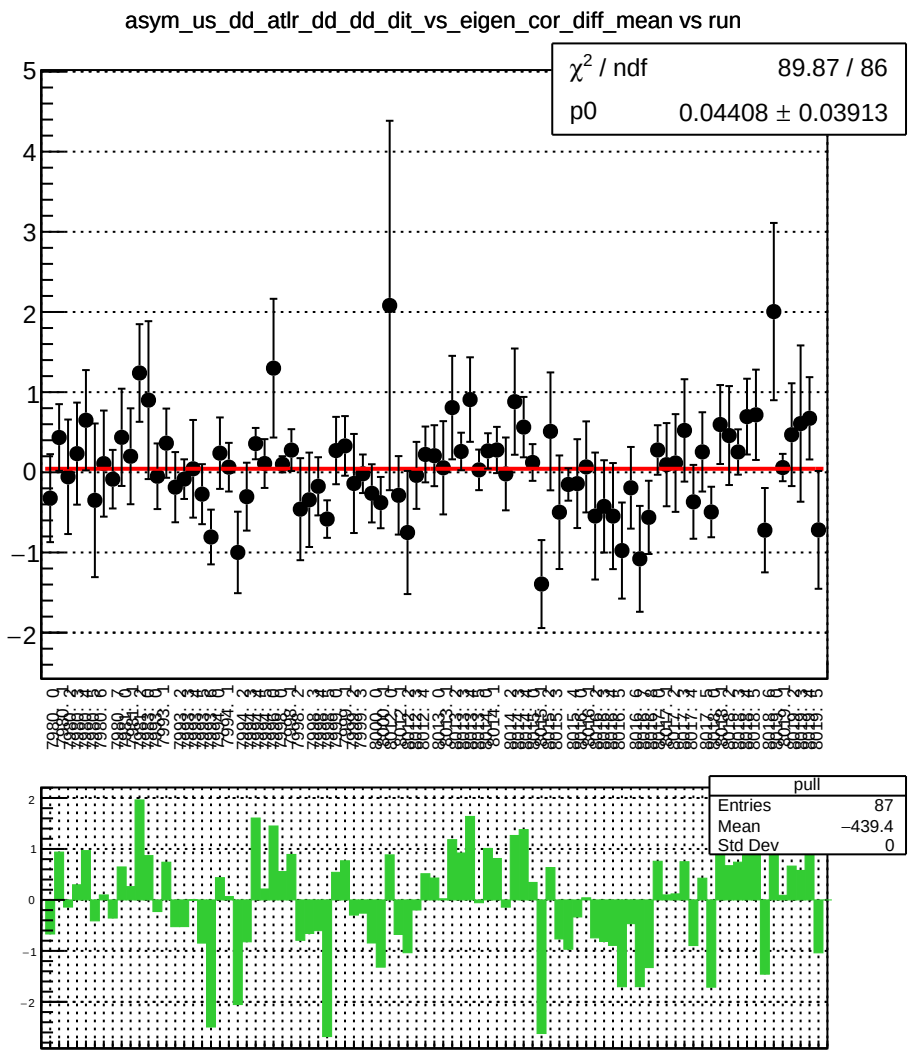

pull1D
Entries 87
Mean −0.02671
Std Dev 0.9739
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

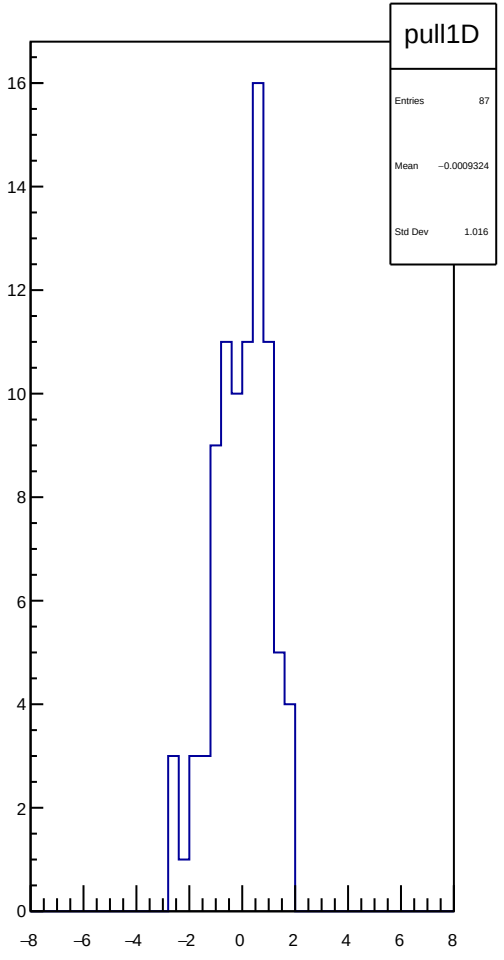

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.54e+06 / 86
p0 1.531e−11 ± 3.255e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

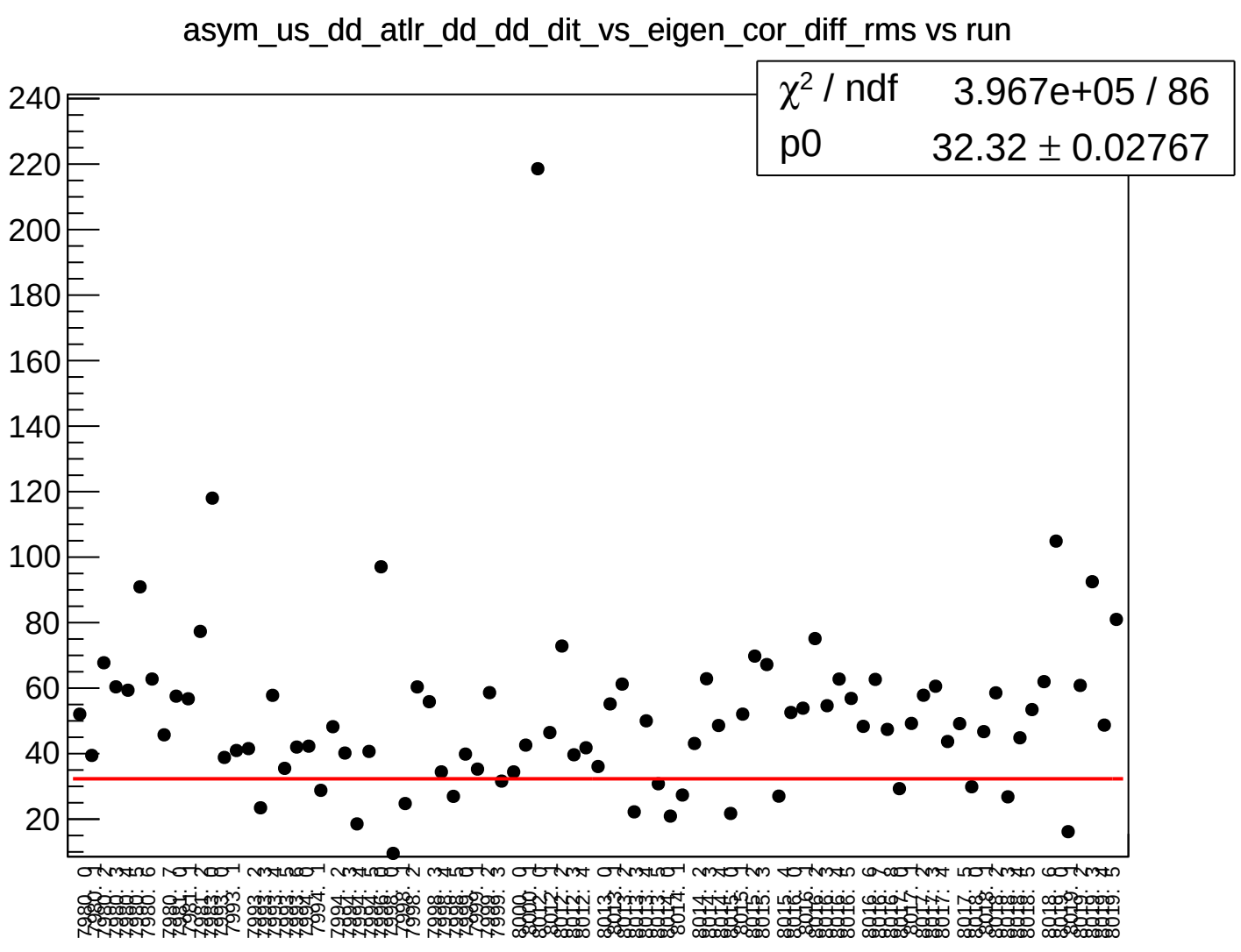

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.87 / 86
p0 0.04408 ± 0.03913
pull
Entries 87
Mean −439.4
Std Dev 0

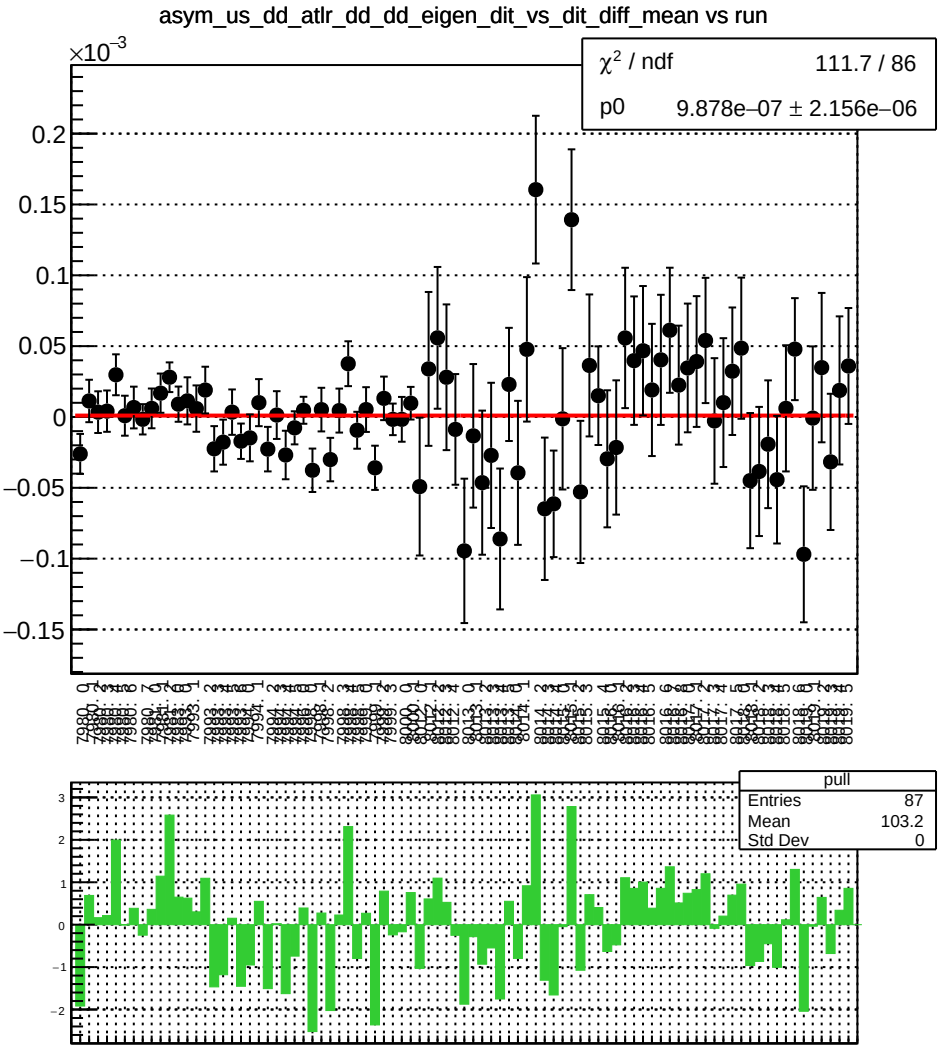

pull1D
Entries 87
Mean −0.0009324
Std Dev 1.016

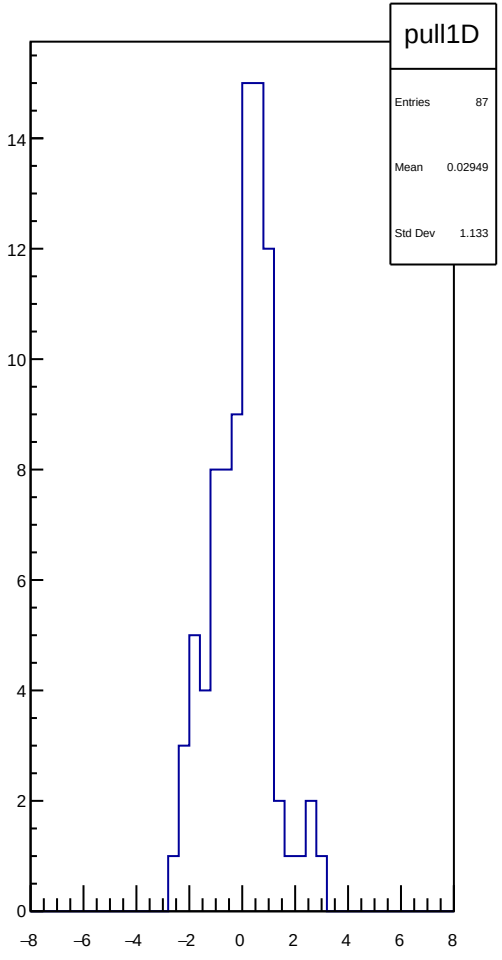

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.967e+05 / 86
p0 32.32 ± 0.02767
240
220
200
180
160
140
120
100
80
60
40
20

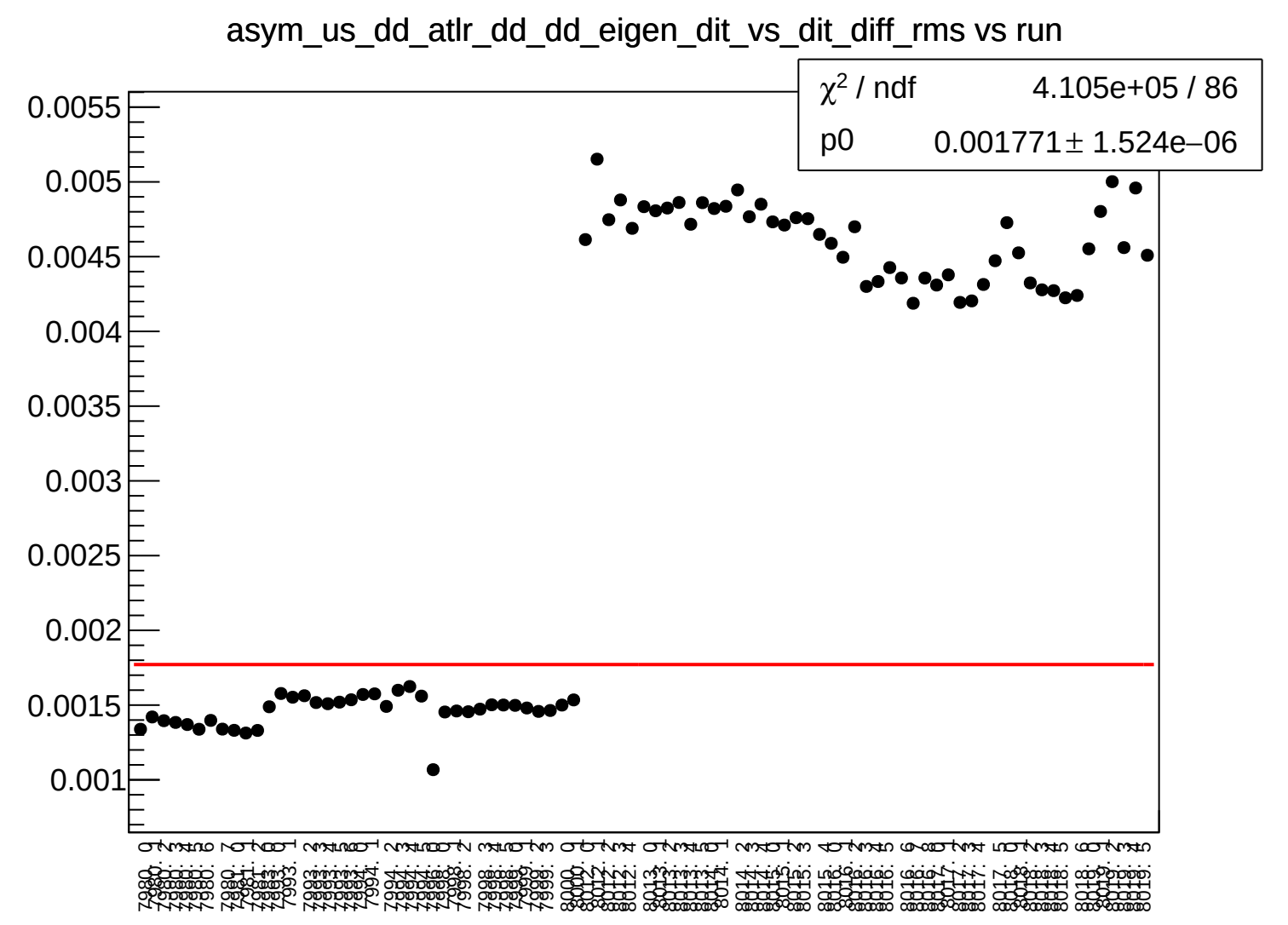

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.87 / 86
p0 0.04408 ± 0.03913
pull
Entries 87
Mean −439.4
Std Dev 0

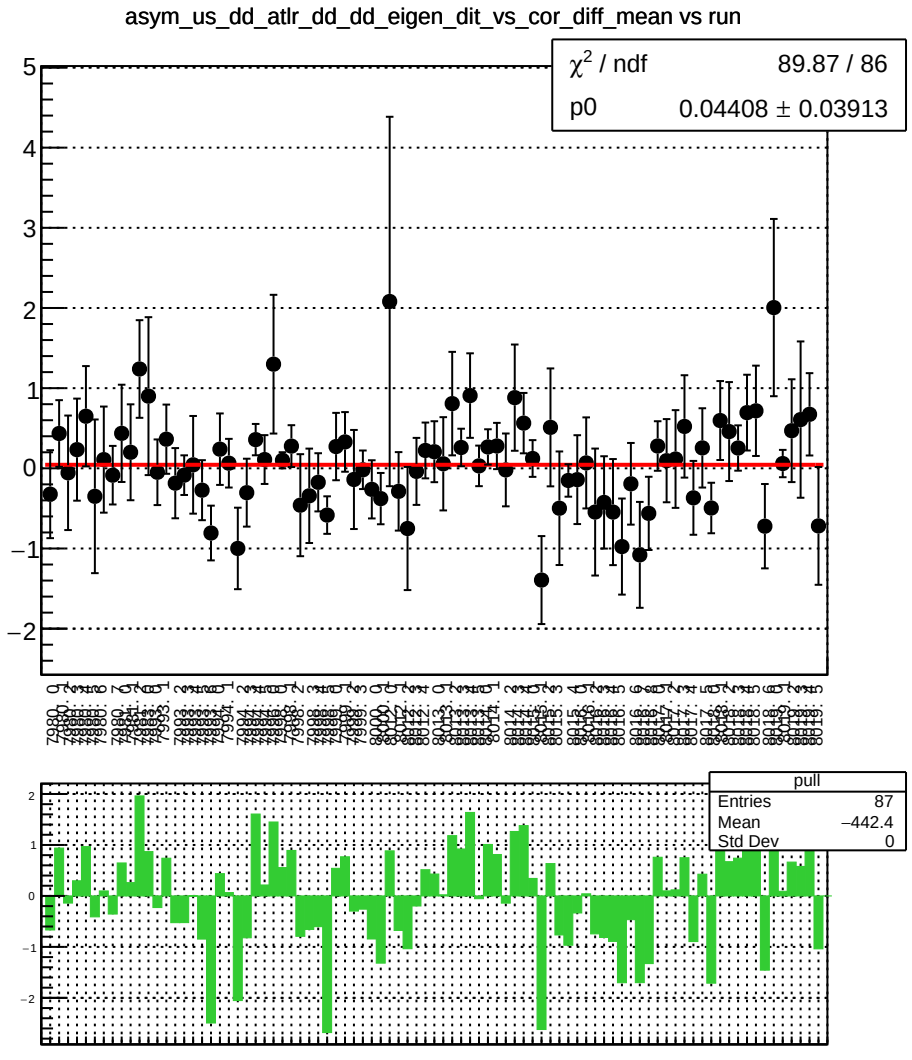

pull1D
Entries 87
Mean −0.0009324
Std Dev 1.016

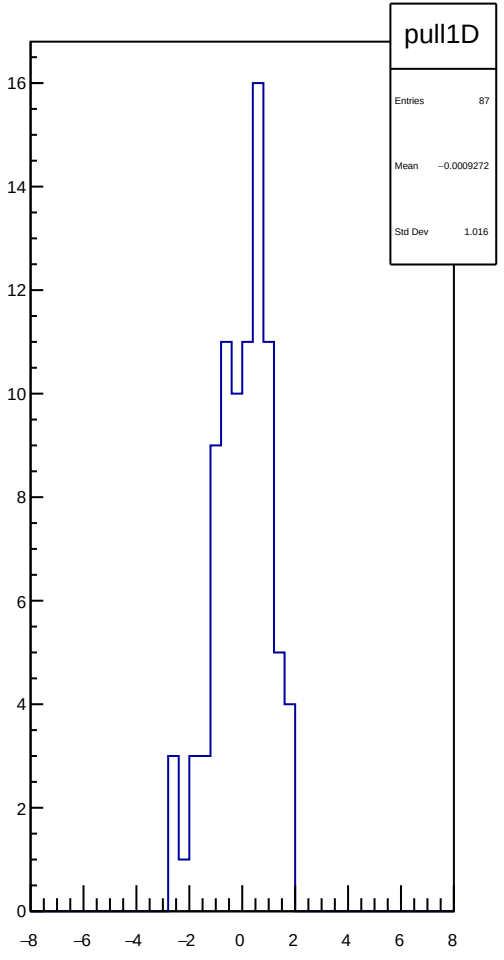

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.967e+05 / 86
p0 32.32 ± 0.02767
240
220
200
180
160
140
120
100
80
60
40
20

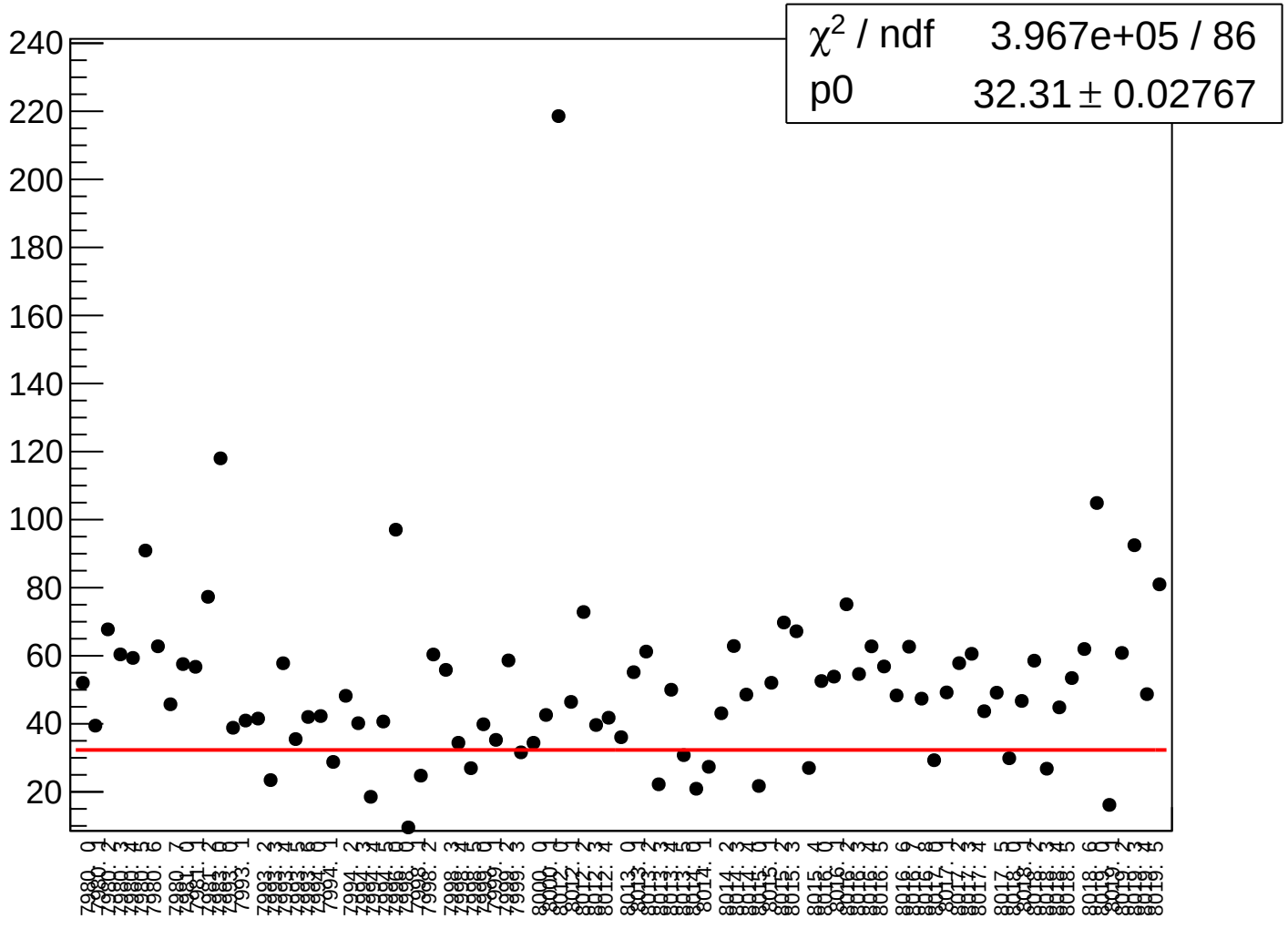

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.7 / 86
p0 9.878e−07 ± 2.156e−06
pull
Entries 87
Mean 103.2
Std Dev 0

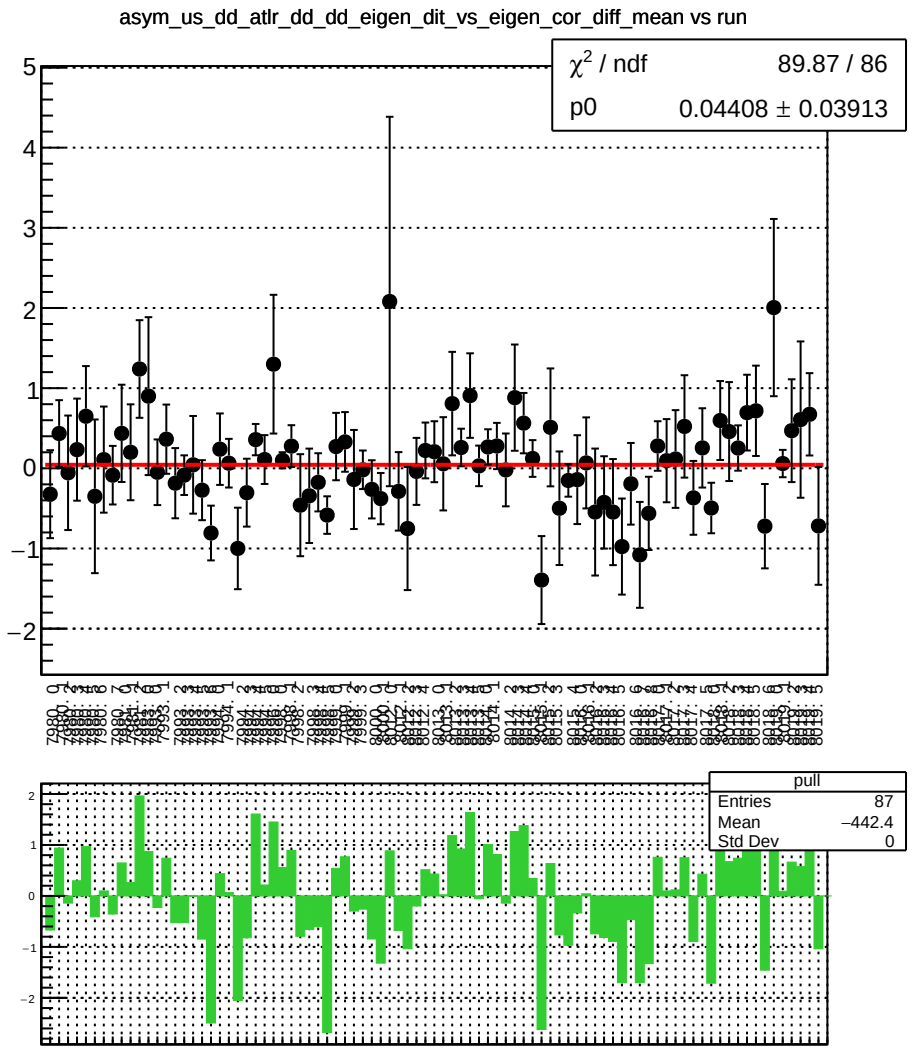

pull1D
Entries 87
Mean 0.02949
Std Dev 1.133

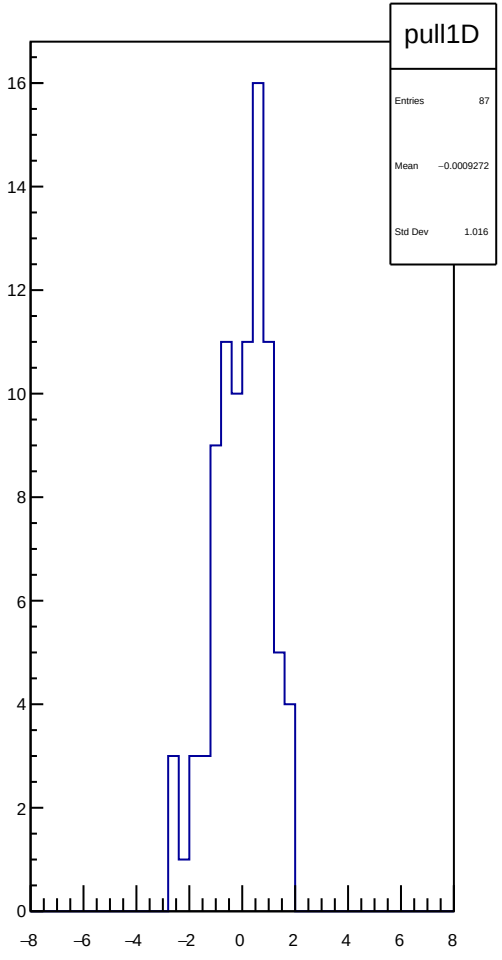

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.105e+05 / 86
p0 0.001771 ± 1.524e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

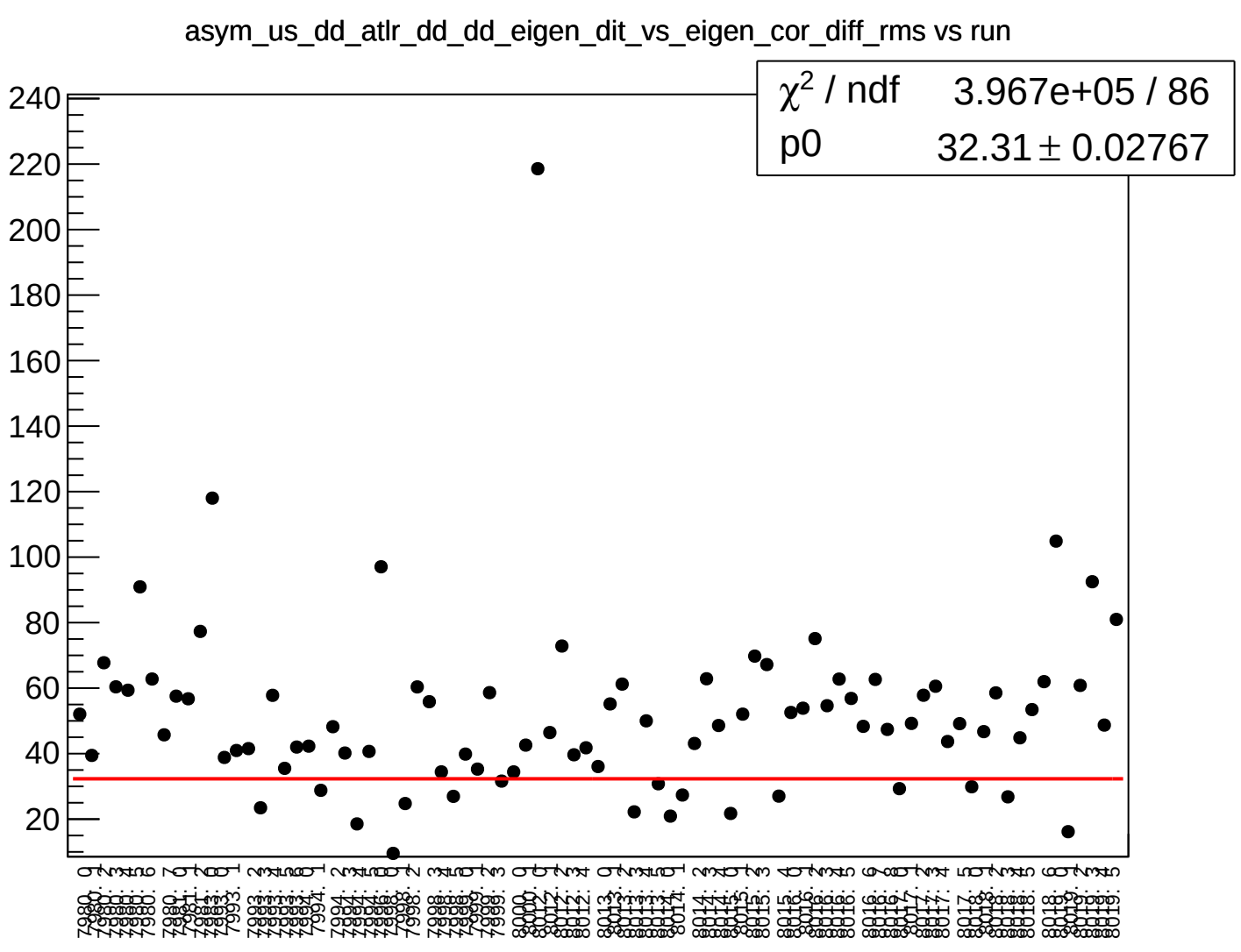

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.87 / 86
p0 0.04408 ± 0.03913
pull
Entries 87
Mean −442.4
Std Dev 0

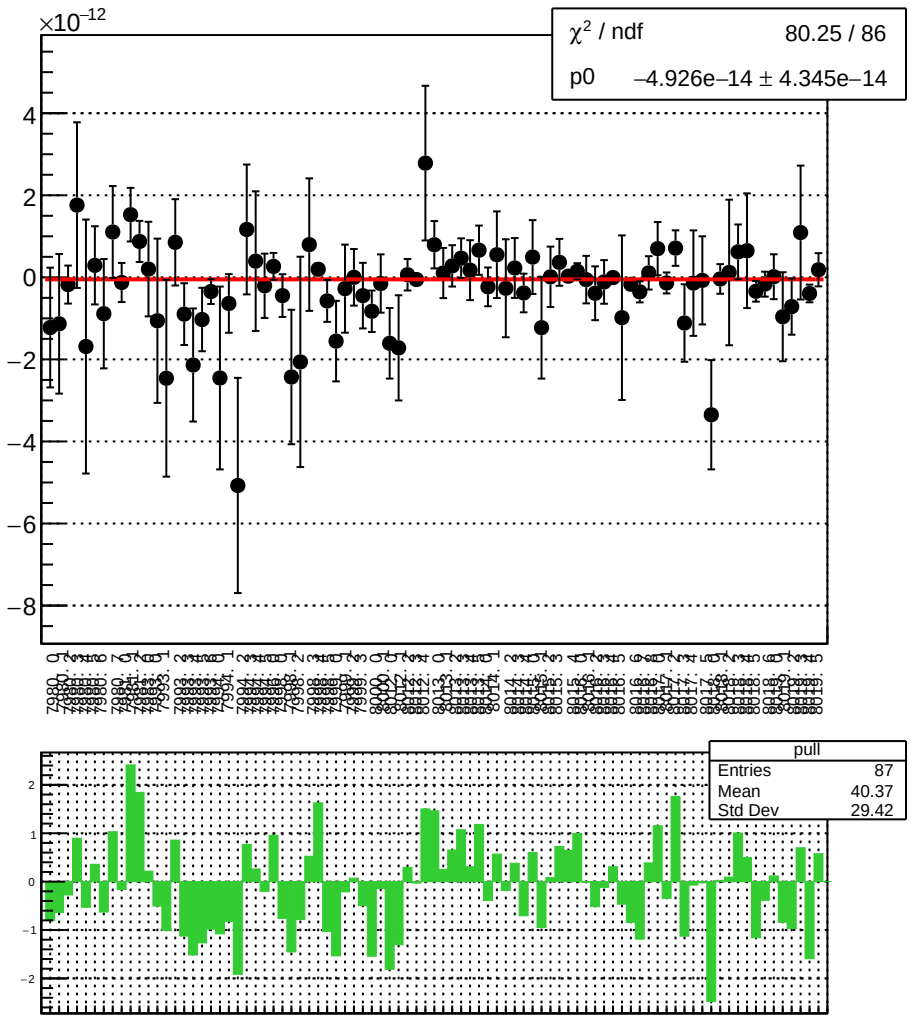

pull1D
Entries 87
Mean −0.0009272
Std Dev 1.016

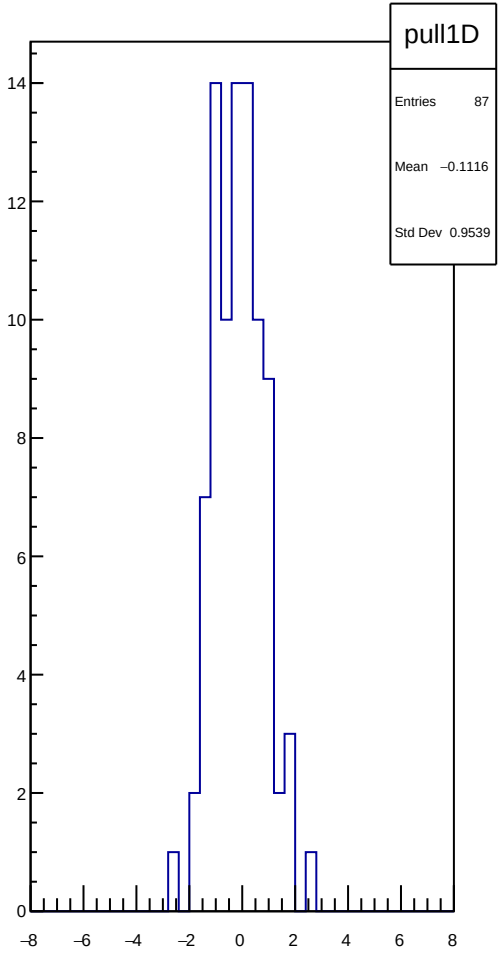

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.967e+05 / 86
p0 32.31 ± 0.02767
240
220
200
180
160
140
120
100
80
60
40
20

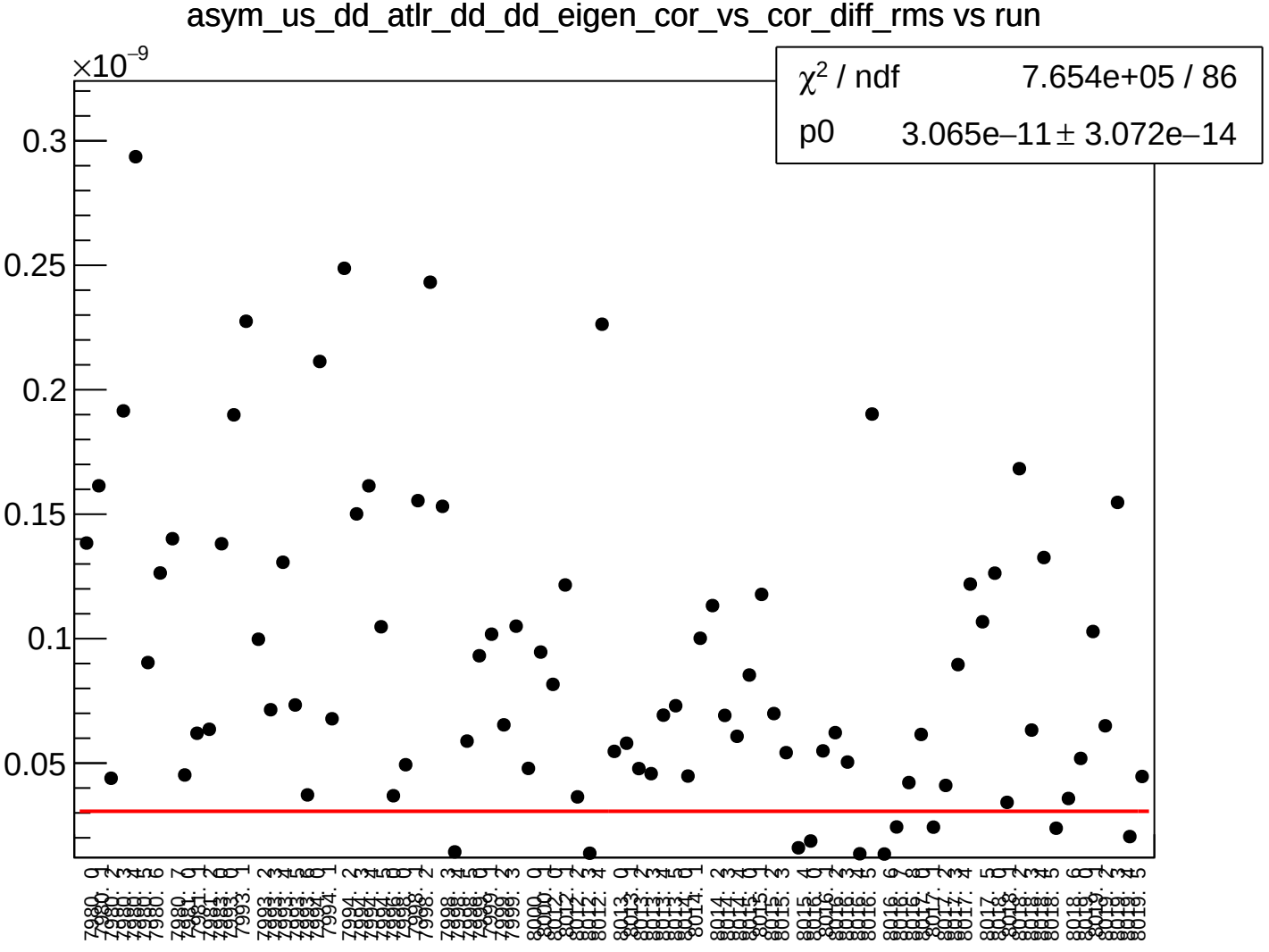

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.87 / 86
p0 0.04408 ± 0.03913
pull
Entries 87
Mean −442.4
Std Dev 0

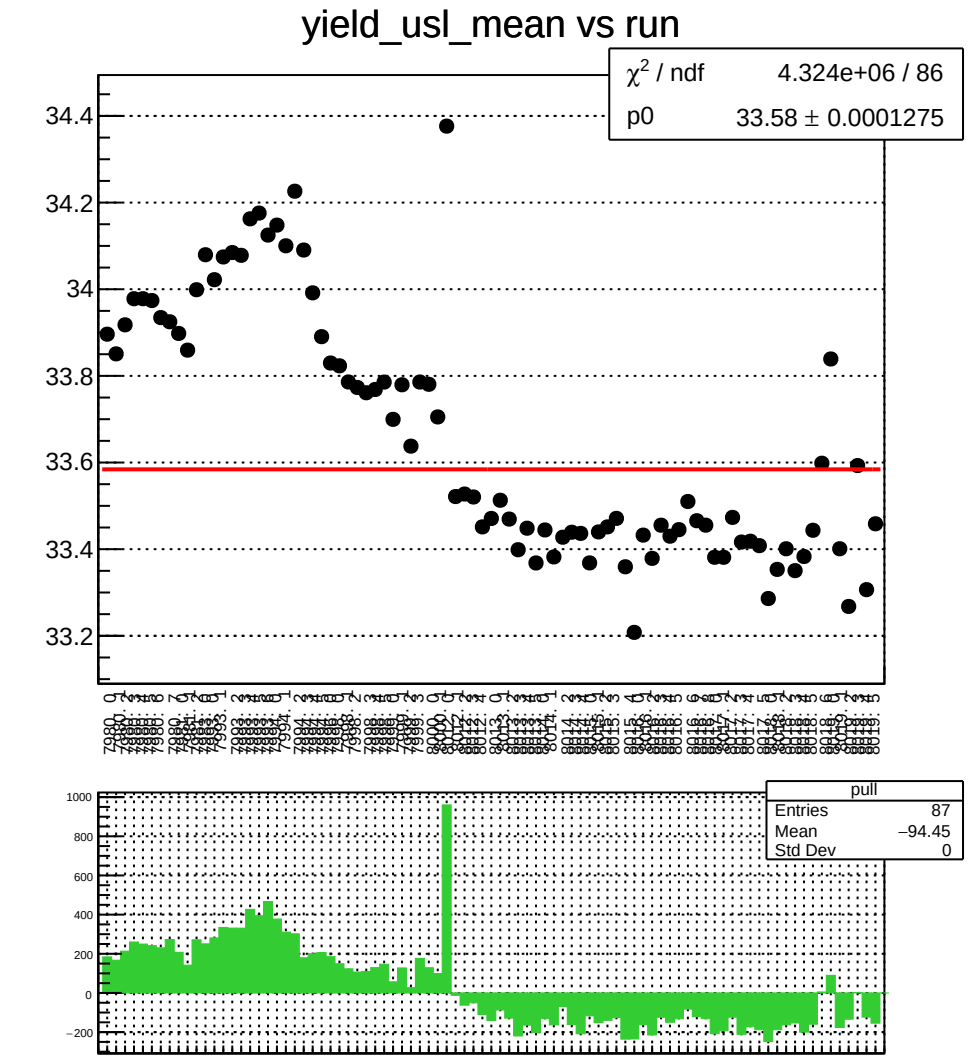

pull1D
Entries 87
Mean −0.0009272
Std Dev 1.016

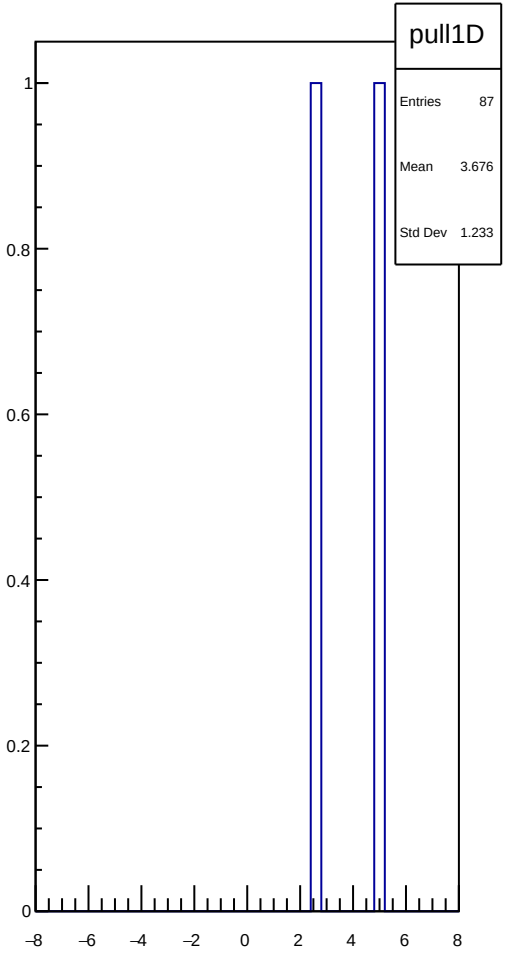

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.967e+05 / 86
p0 32.31 ± 0.02767
240
220
200
180
160
140
120
100
80
60
40
20

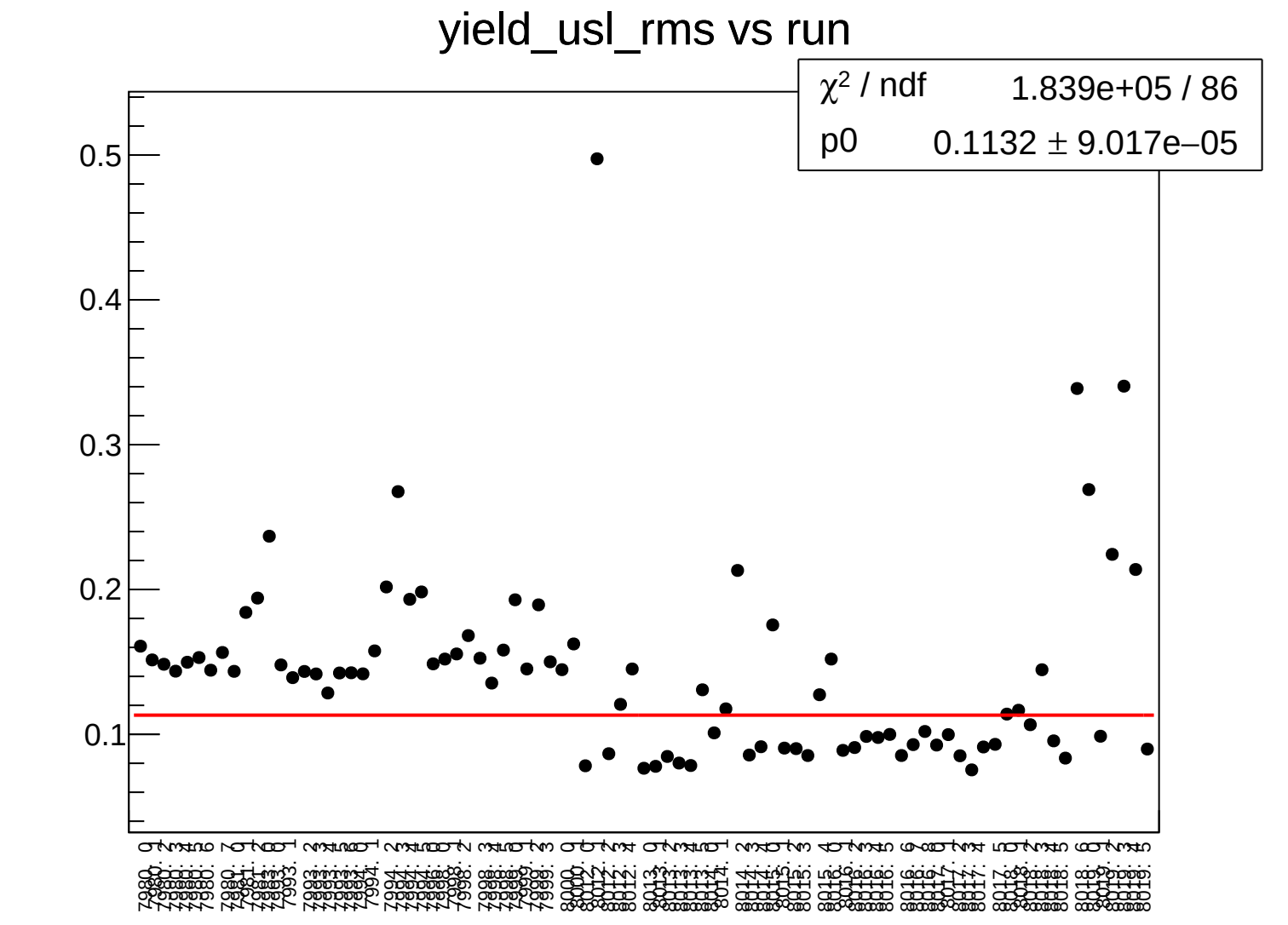

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.25 / 86
p0 −4.926e−14 ± 4.345e−14
pull
Entries 87
Mean 40.37
Std Dev 29.42

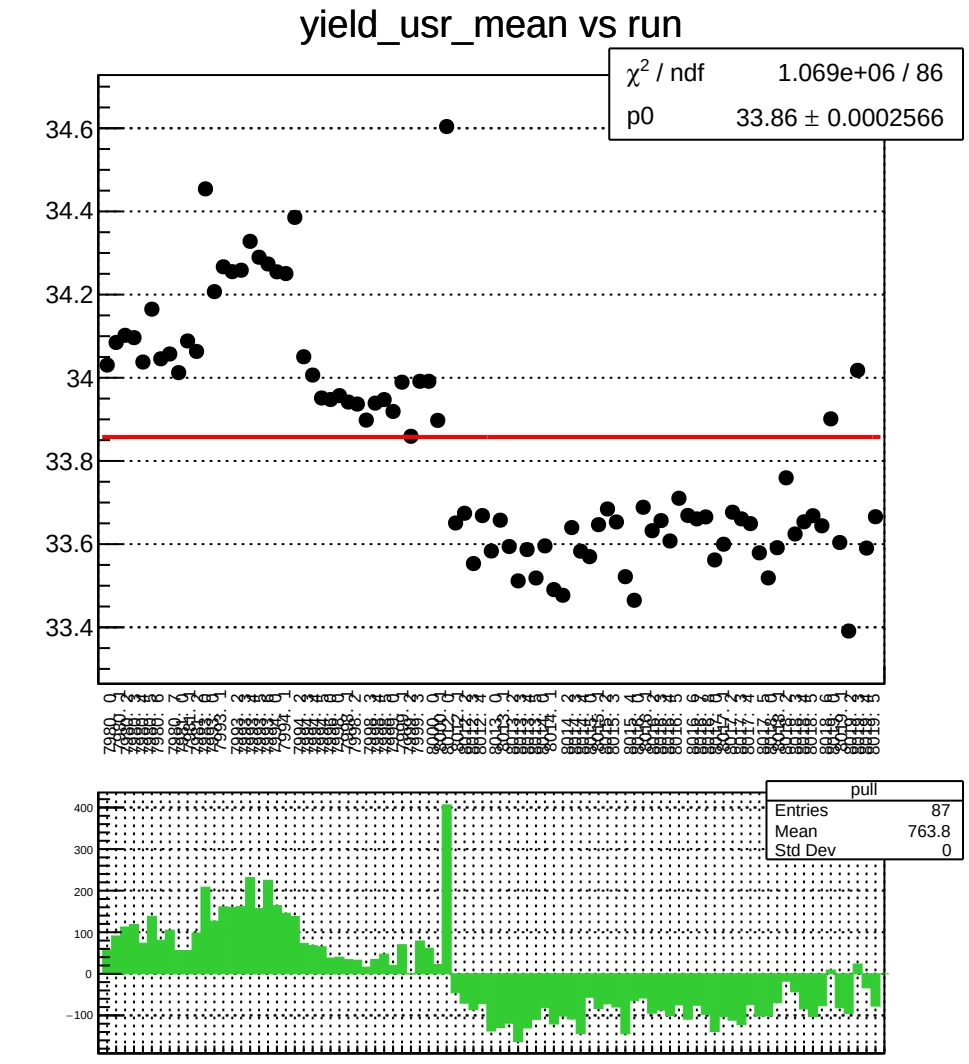

pull1D
Entries 87
Mean −0.1116
Std Dev 0.9539

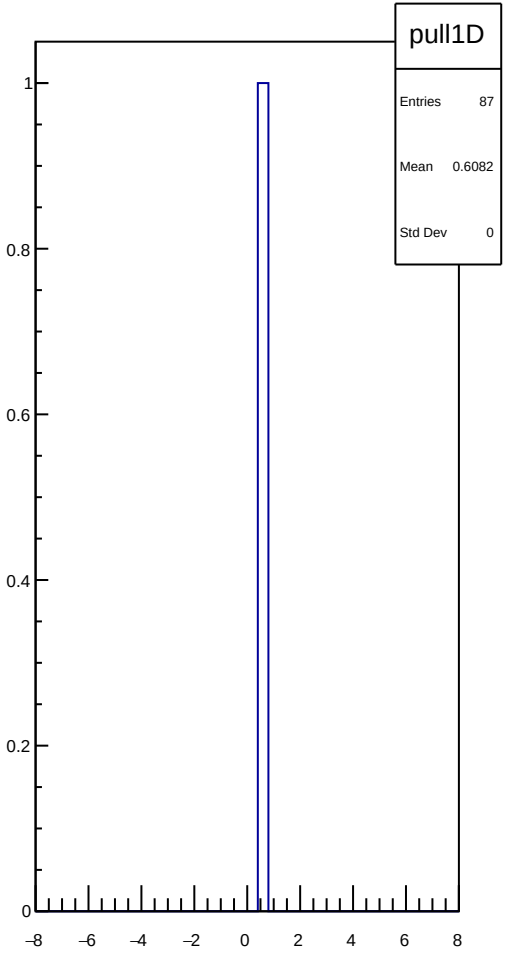

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.654e+05 / 86
p0 3.065e−11 ± 3.072e−14
0.3
0.25
0.2
0.15
0.1
0.05

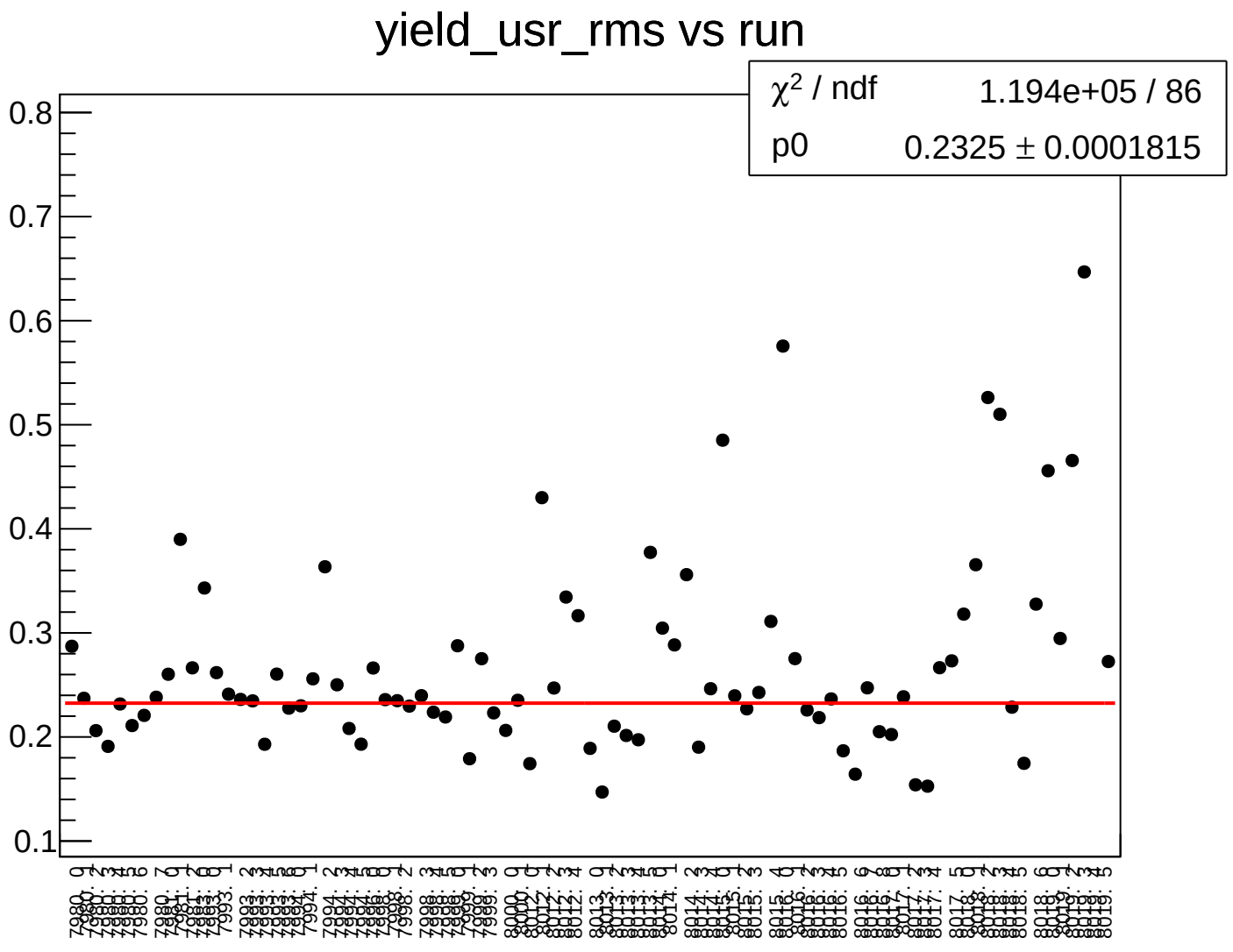

yield_usl_mean vs run
χ² / ndf 4.324e+06 / 86
p0 33.58 ± 0.0001275
34.4
34.2
34
33.8
33.6
33.4
33.2
pull
Entries 87
Mean −94.45
Std Dev 0
1000
800
600
400
200
0
−200

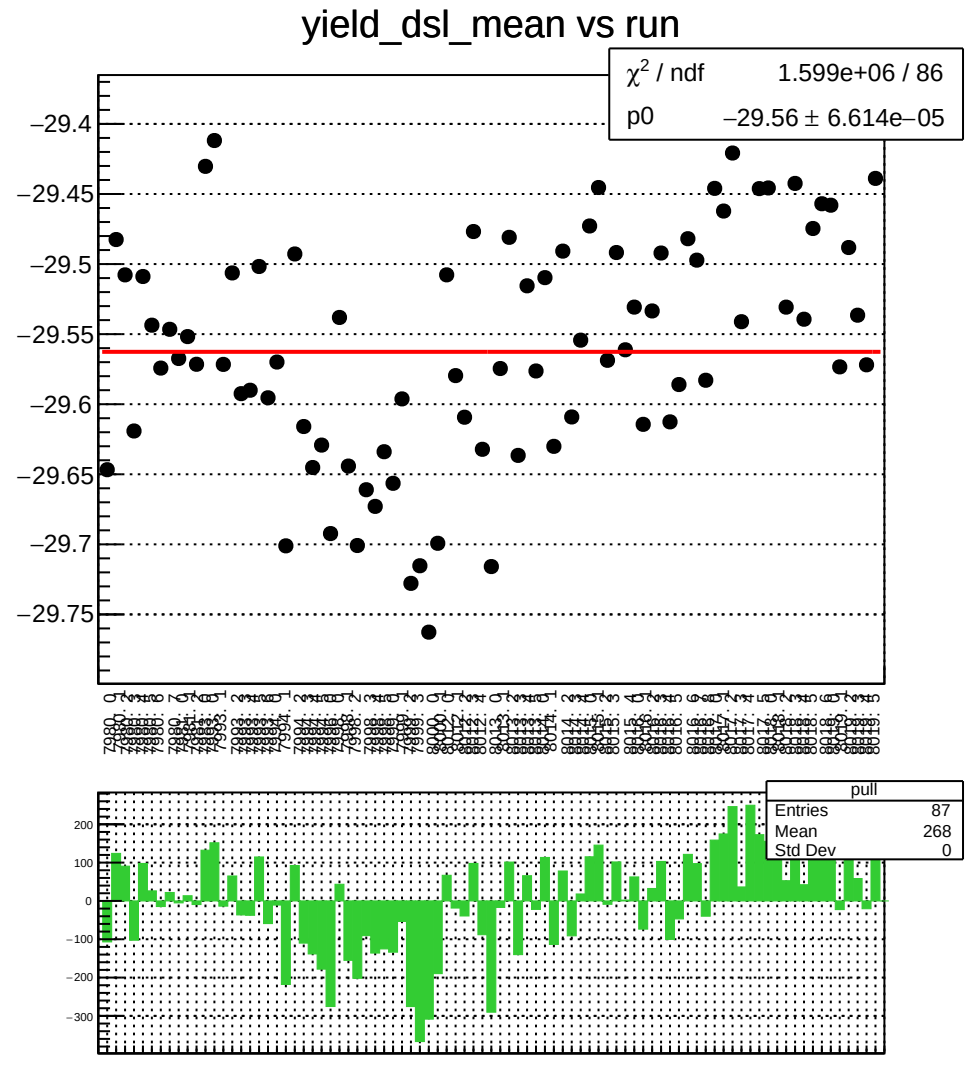

pull1D
Entries 87
Mean 3.676
Std Dev 1.233
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

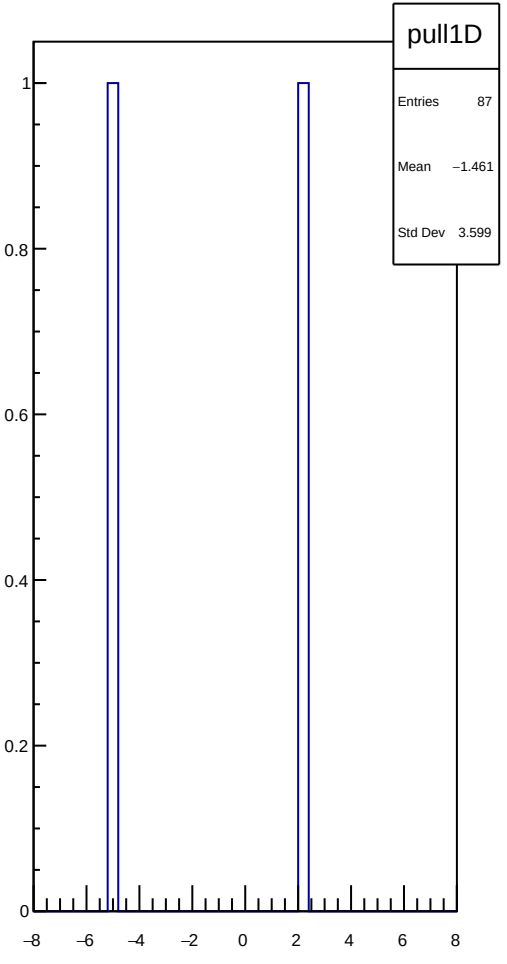

yield_usl_rms vs run
χ² / ndf 1.839e+05 / 86
p0 0.1132 ± 9.017e−05
0.5
0.4
0.3
0.2
0.1

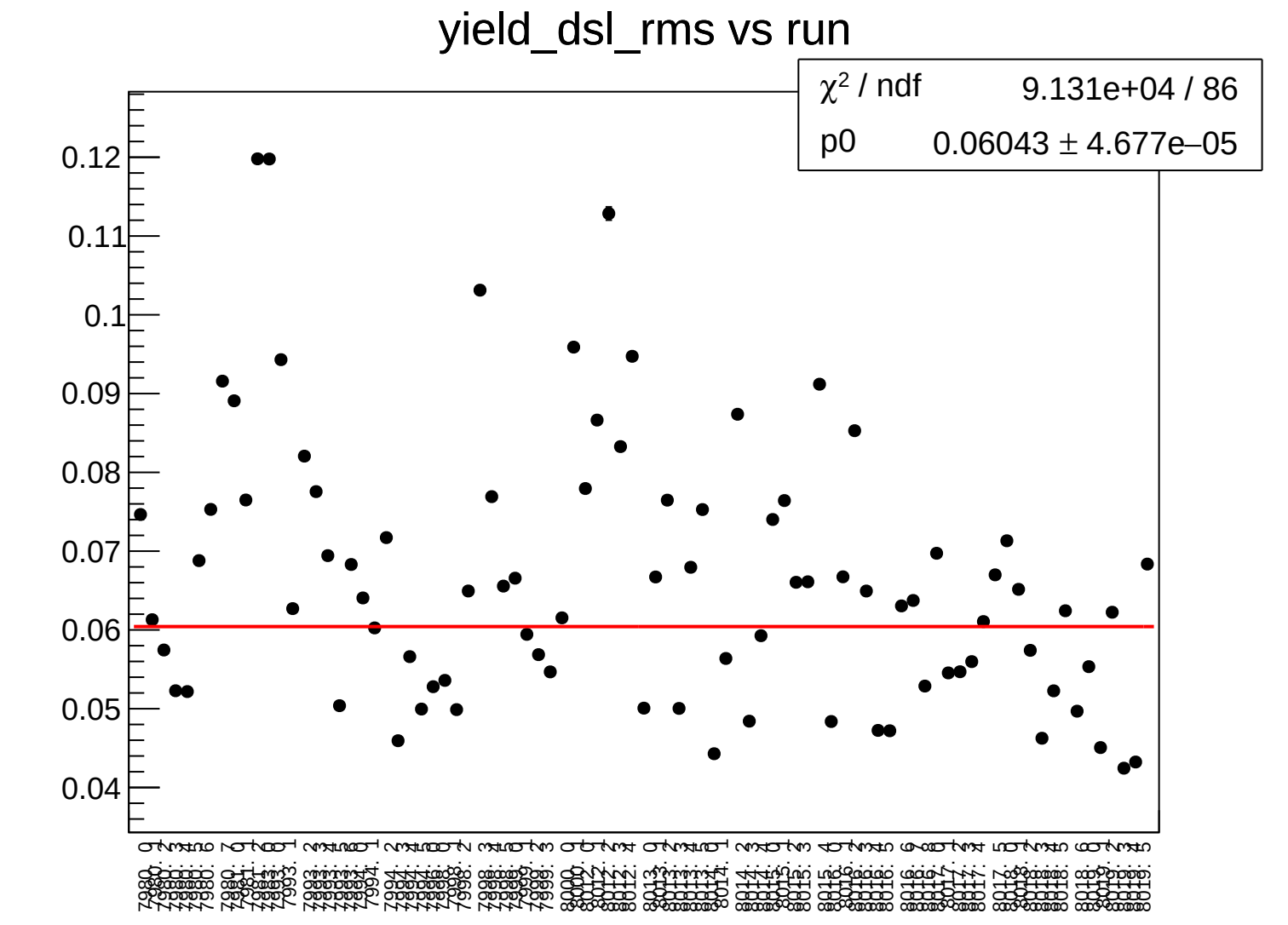

yield_usr_mean vs run
χ² / ndf 1.069e+06 / 86
p0 33.86 ± 0.0002566
34.6
34.4
34.2
34
33.8
33.6
33.4
pull
Entries 87
Mean 763.8
Std Dev 0
400
300
200
100
0
−100

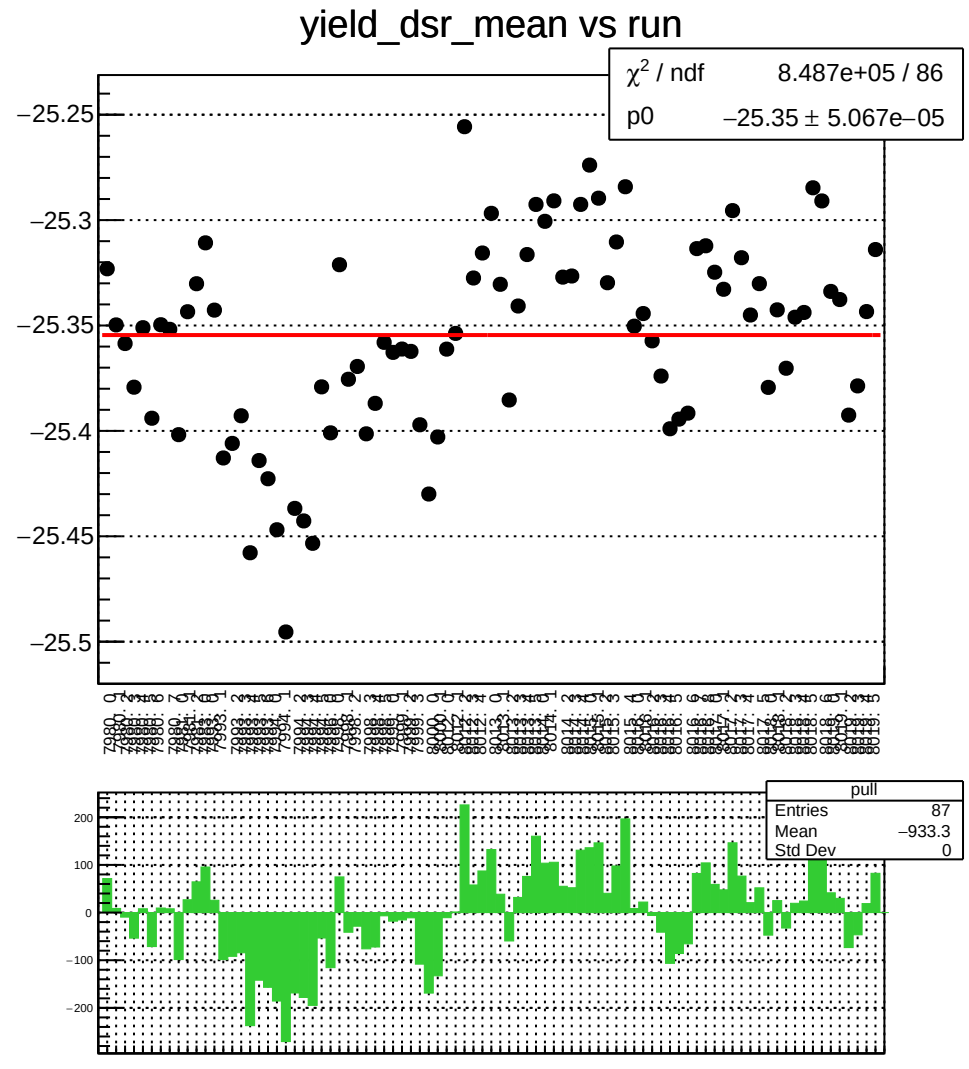

pull1D
Entries 87
Mean 0.6082
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

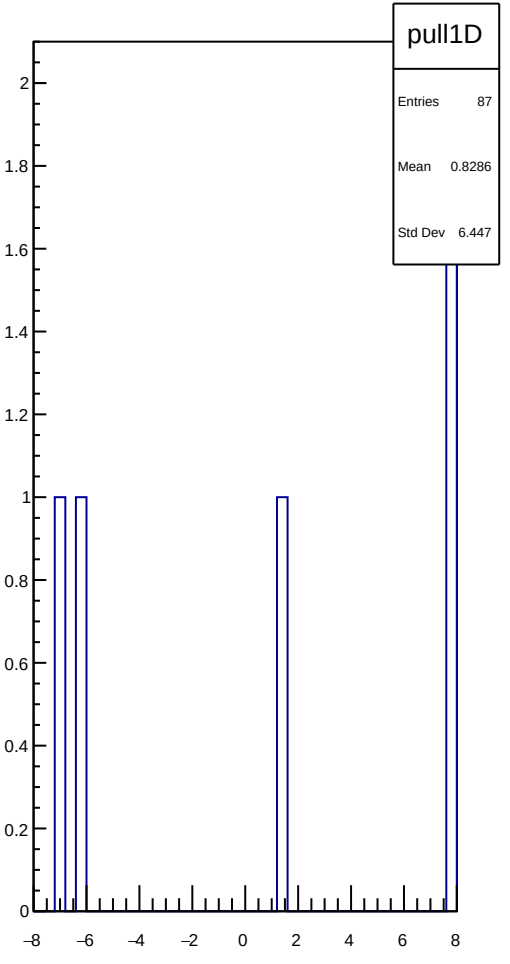

yield_usr_rms vs run
χ² / ndf 1.194e+05 / 86
p0 0.2325 ± 0.0001815
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

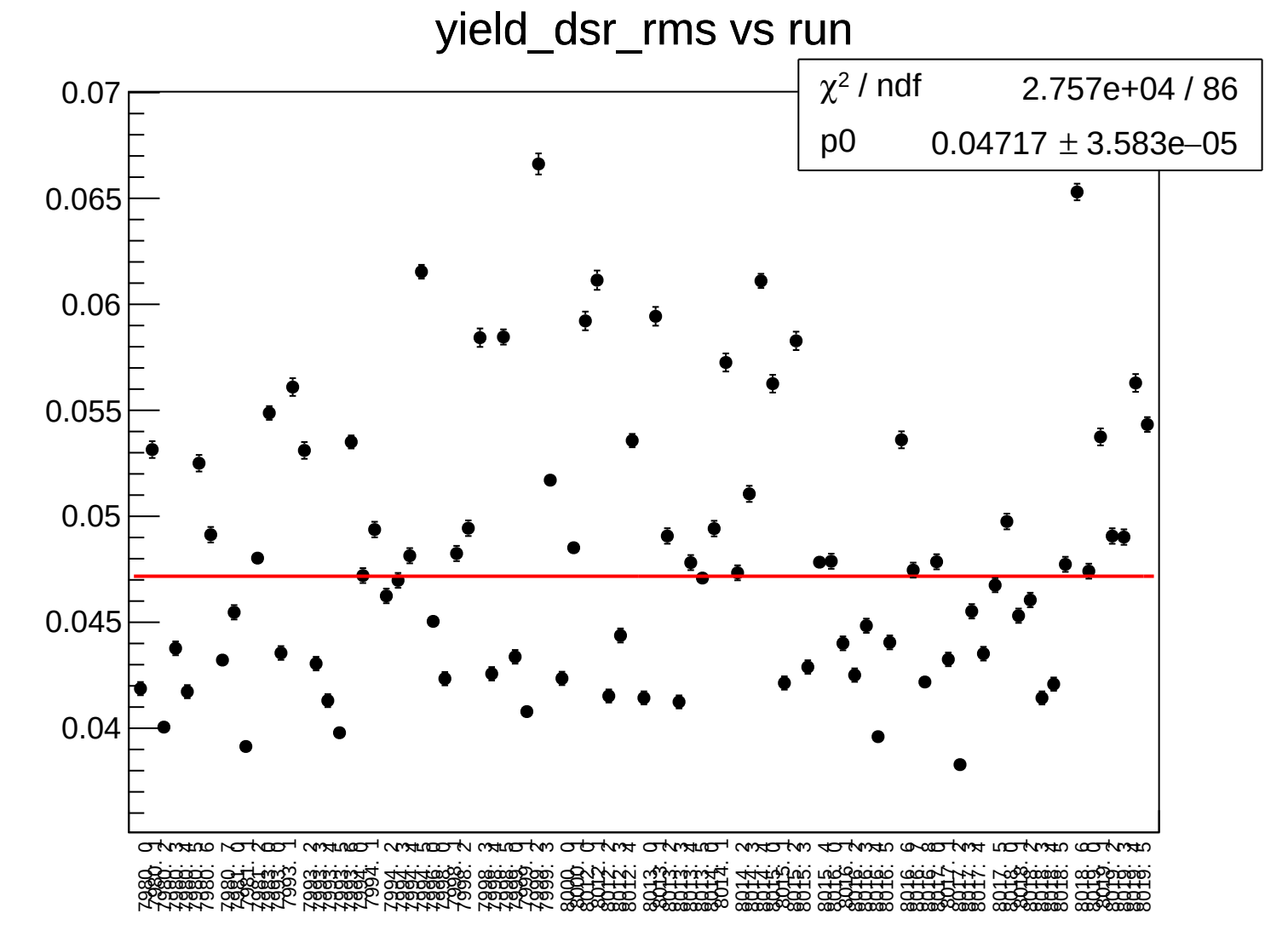

yield_dsl_mean vs run
χ² / ndf 1.599e+06 / 86
p0 −29.56 ± 6.614e−05
−29.4
−29.45
−29.5
−29.55
−29.6
−29.65
−29.7
−29.75
pull
Entries 87
Mean 268
Std Dev 0
200
100
0
−100
−200
−300

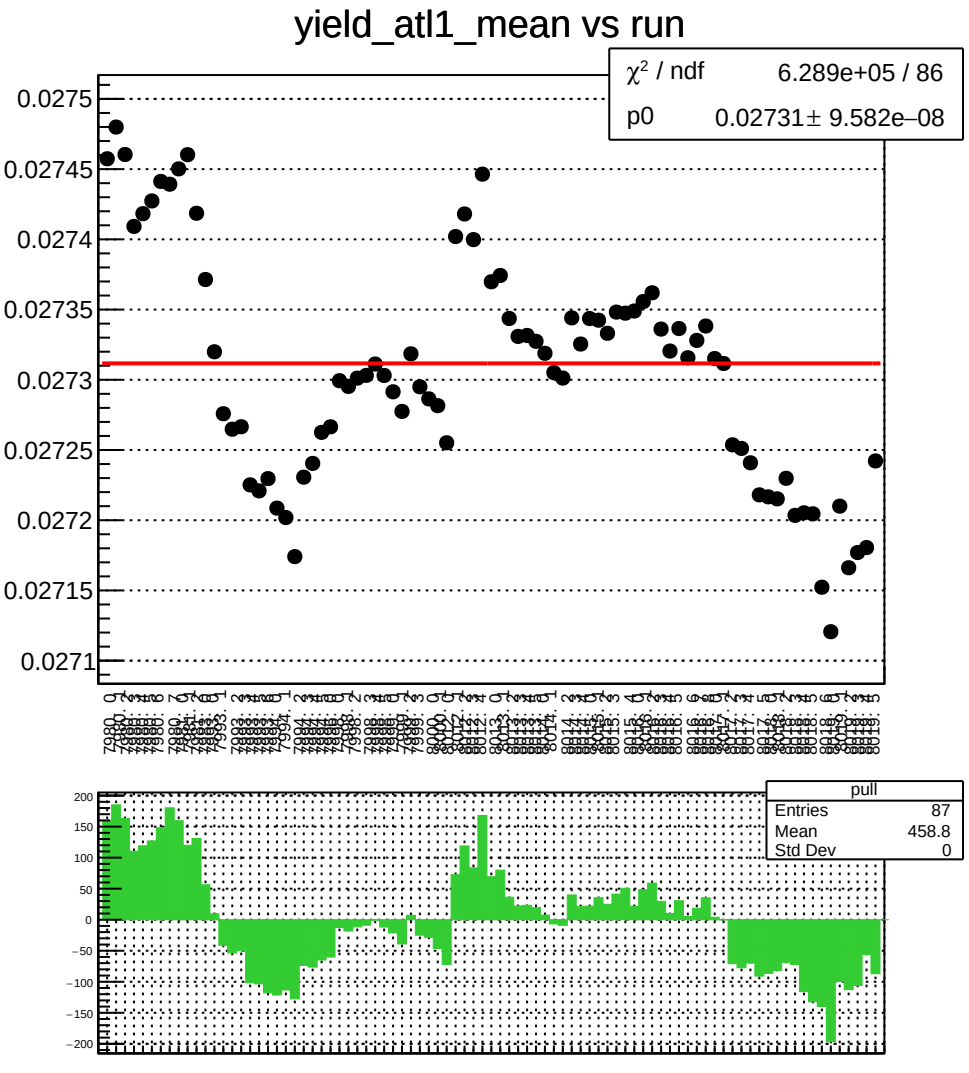

pull1D
Entries 87
Mean −1.461
Std Dev 3.599
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

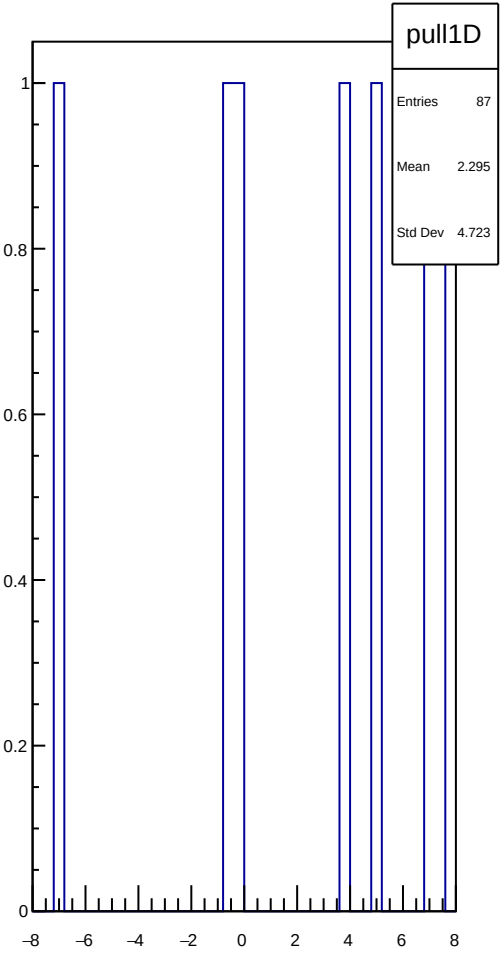

yield_dsl_rms vs run
χ² / ndf 9.131e+04 / 86
p0 0.06043 ± 4.677e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

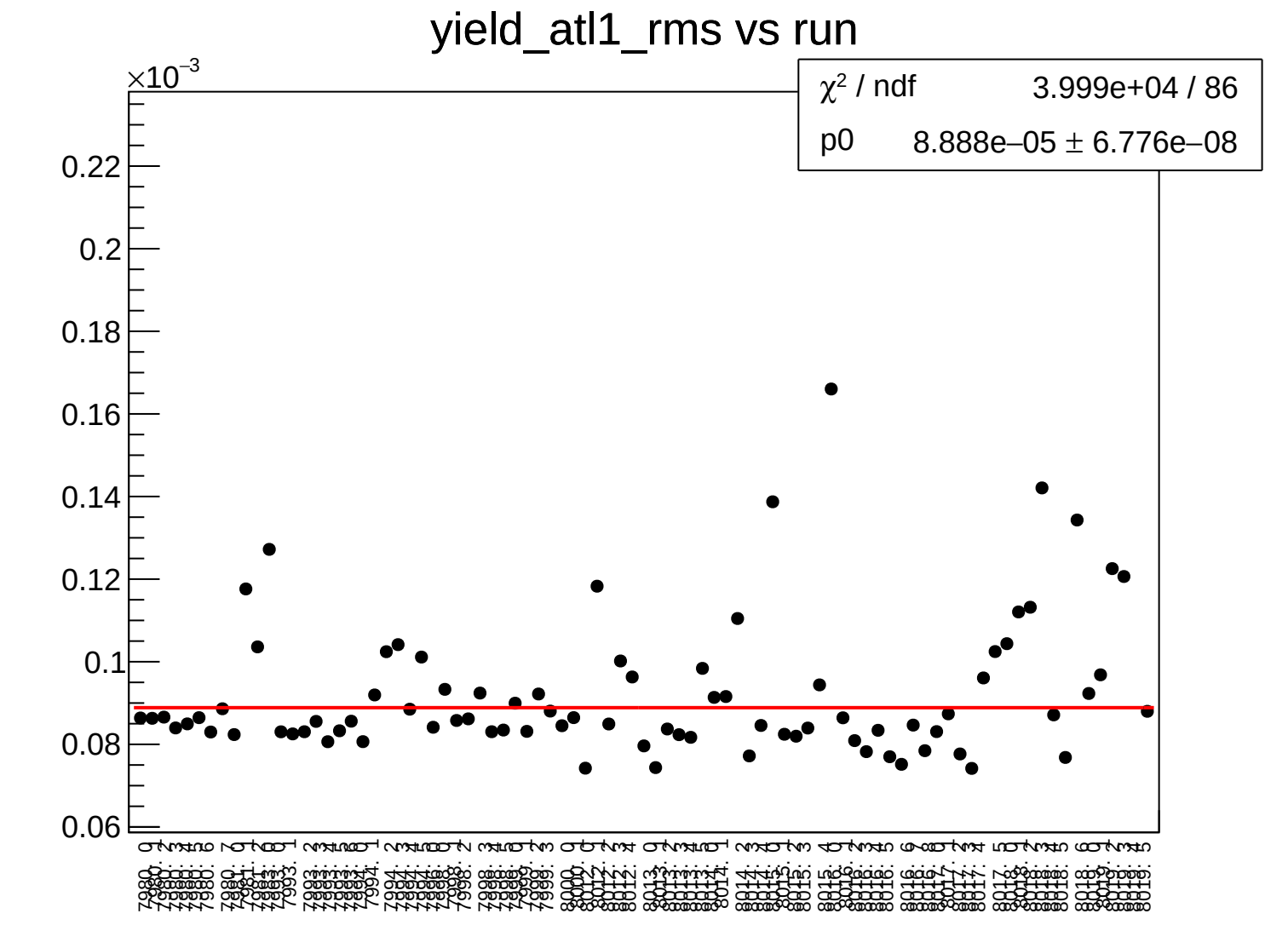

yield_dsr_mean vs run
χ² / ndf 8.487e+05 / 86
p0 −25.35 ± 5.067e−05
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
pull
Entries 87
Mean −933.3
Std Dev 0
200
100
0
−100
−200

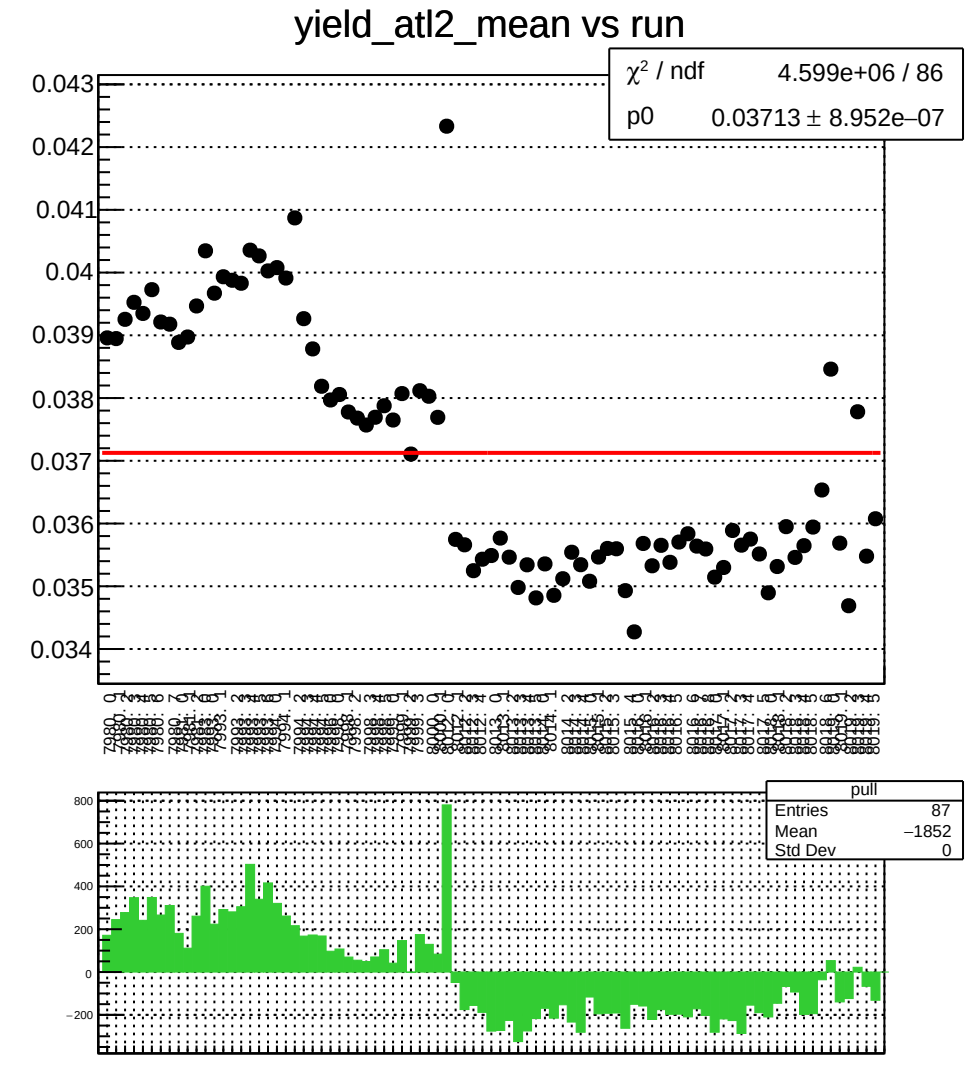

pull1D
Entries 87
Mean 0.8286
Std Dev 6.447
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

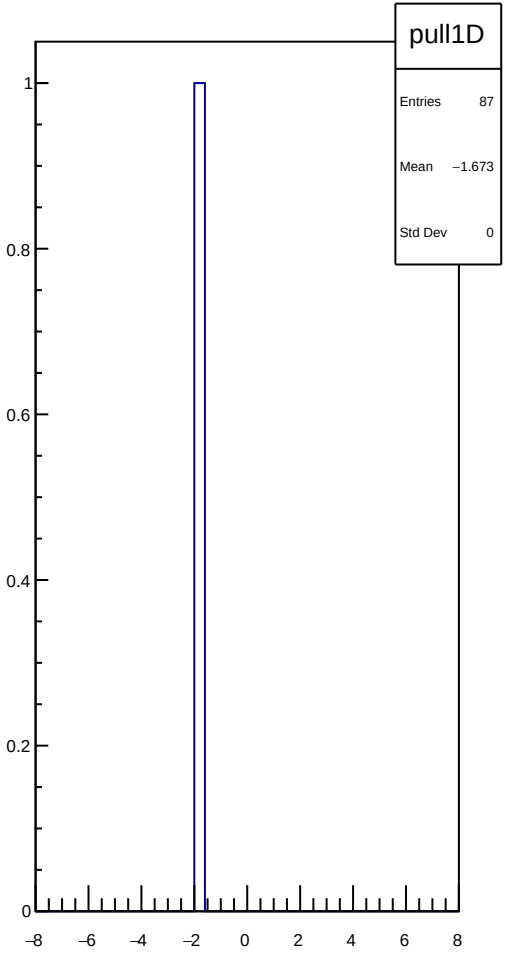

yield_dsr_rms vs run
χ² / ndf 2.757e+04 / 86
p0 0.04717 ± 3.583e−05
0.07
0.065
0.06
0.055
0.05
0.045
0.04

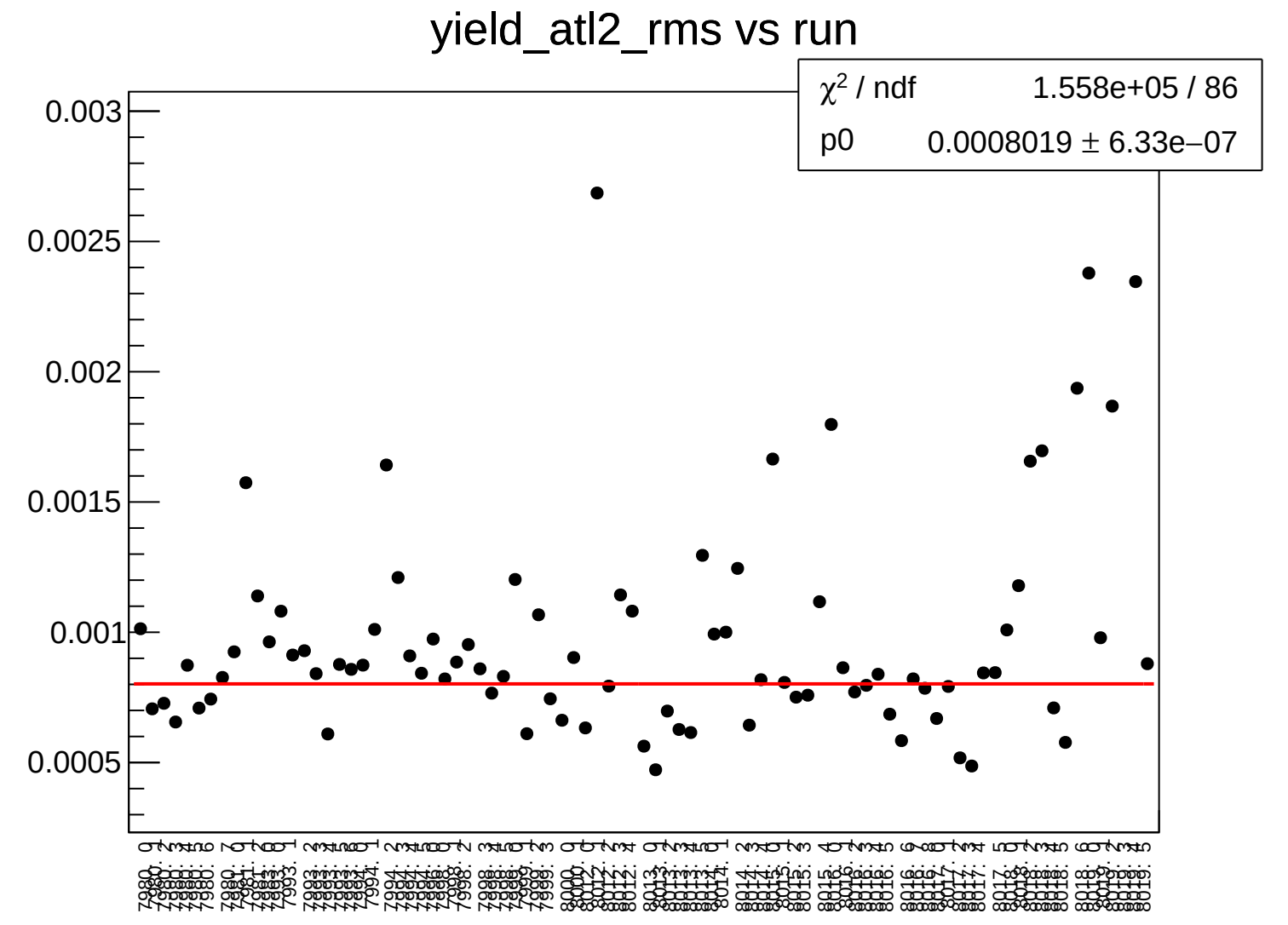

yield_atl1_mean vs run
χ² / ndf 6.289e+05 / 86
p0 0.02731± 9.582e–08
0.0275
0.02745
0.0274
0.02735
0.0273
0.02725
0.0272
0.02715
0.0271
pull
Entries 87
Mean 458.8
Std Dev 0
200
150
100
50
0
–50
–100
–150
–200

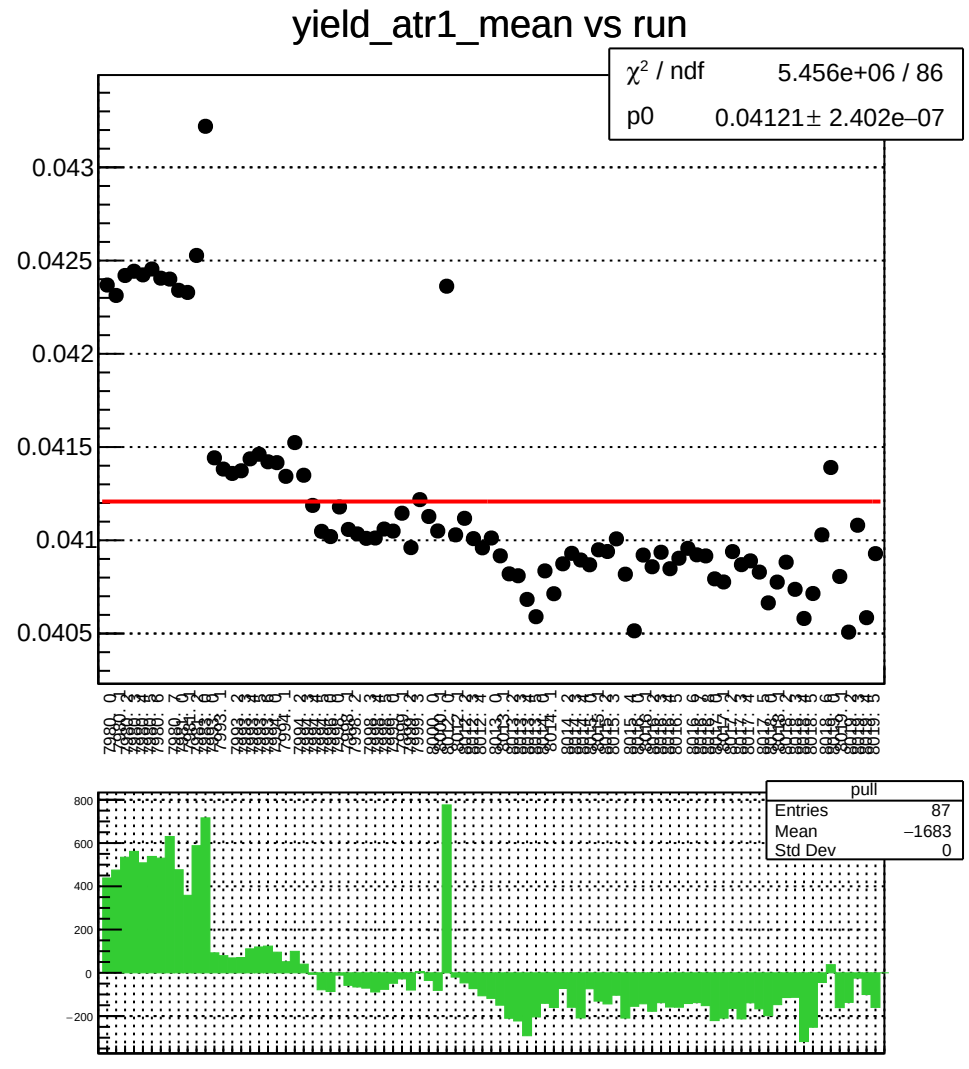

pull1D
Entries 87
Mean 2.295
Std Dev 4.723
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

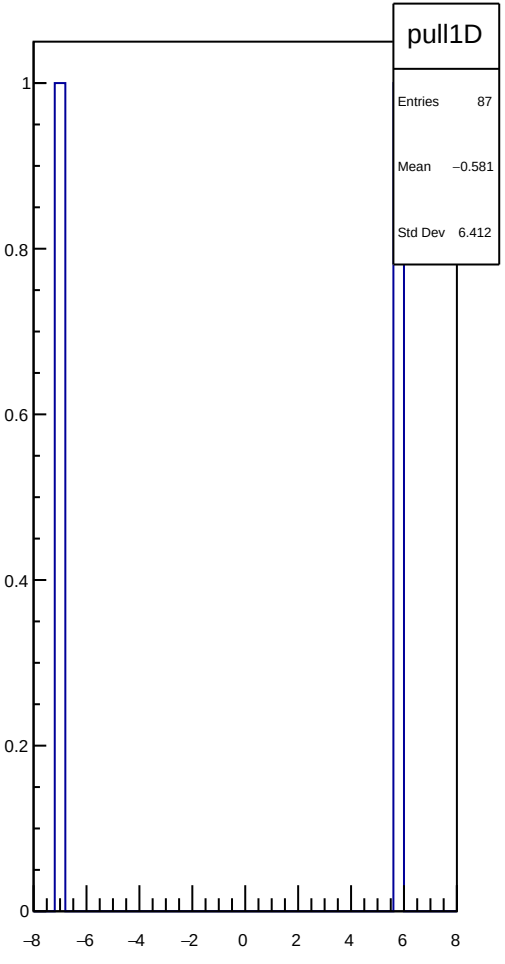

yield_atl1_rms vs run
×10⁻³
χ² / ndf 3.999e+04 / 86
p0 8.888e−05 ± 6.776e−08
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

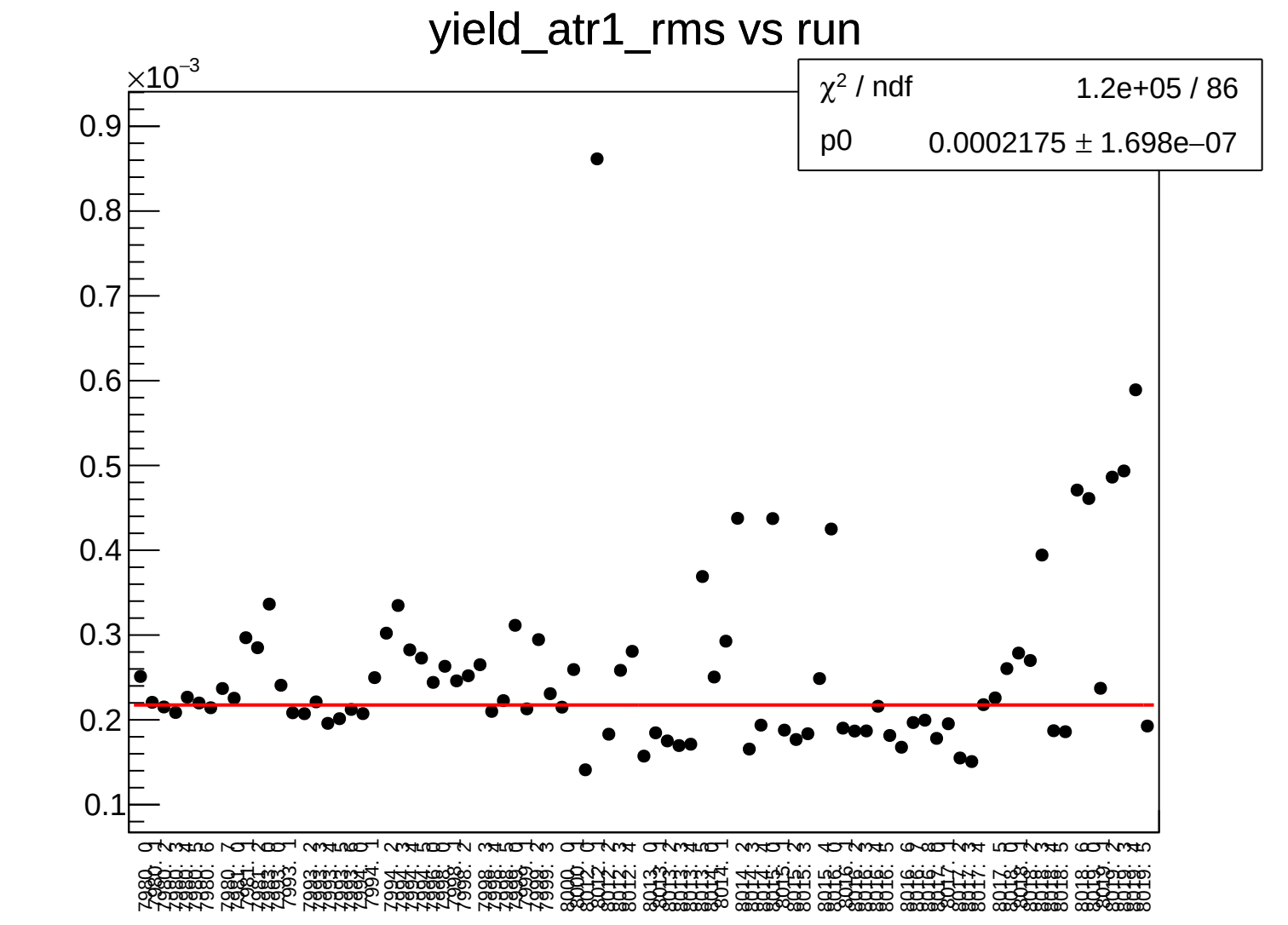

yield_atl2_mean vs run
χ² / ndf 4.599e+06 / 86
p0 0.03713 ± 8.952e−07
0.043
0.042
0.041
0.04
0.039
0.038
0.037
0.036
0.035
0.034
pull
Entries 87
Mean −1852
Std Dev 0
800
600
400
200
0
−200

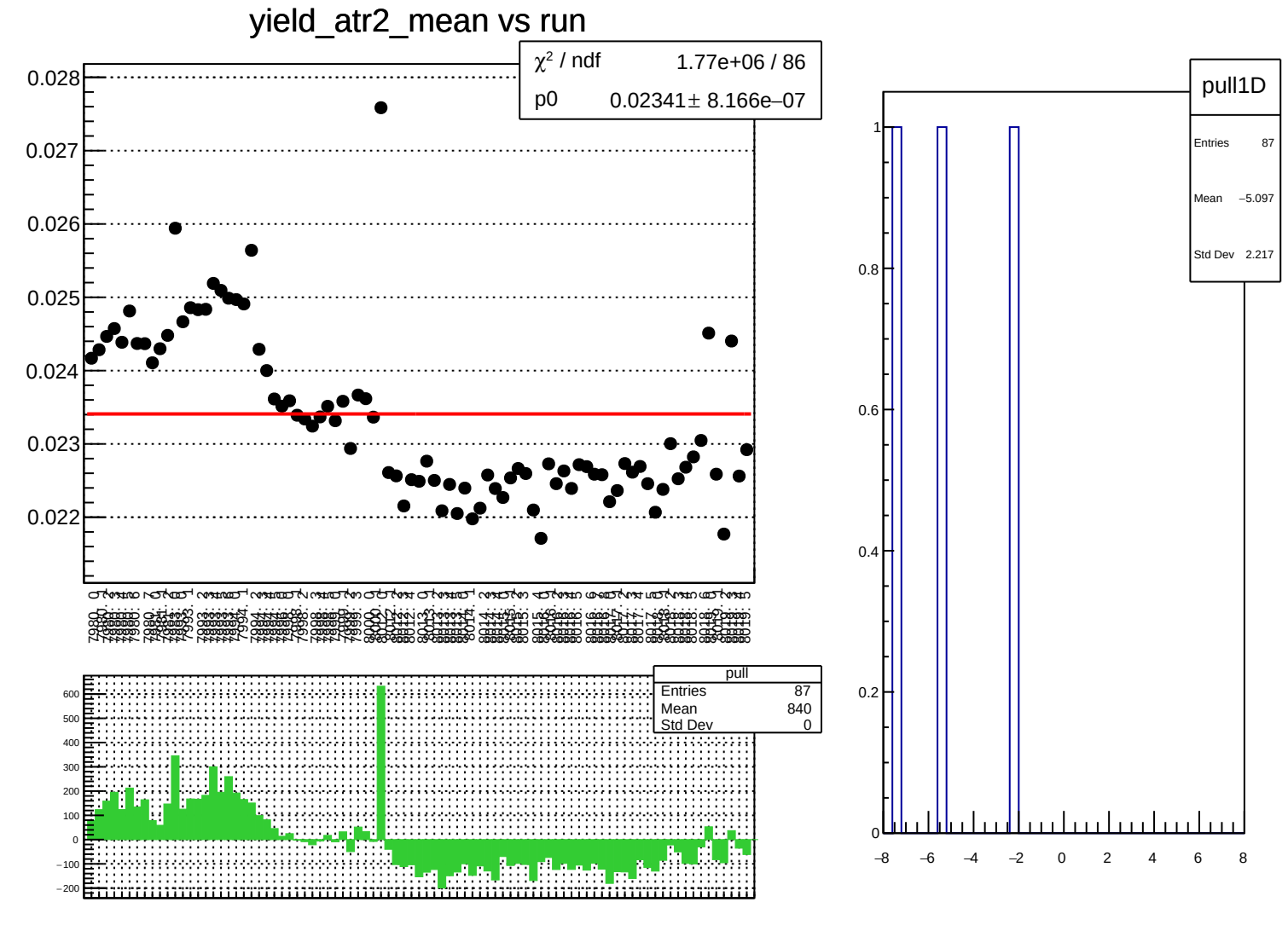

pull1D
Entries 87
Mean −1.673
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

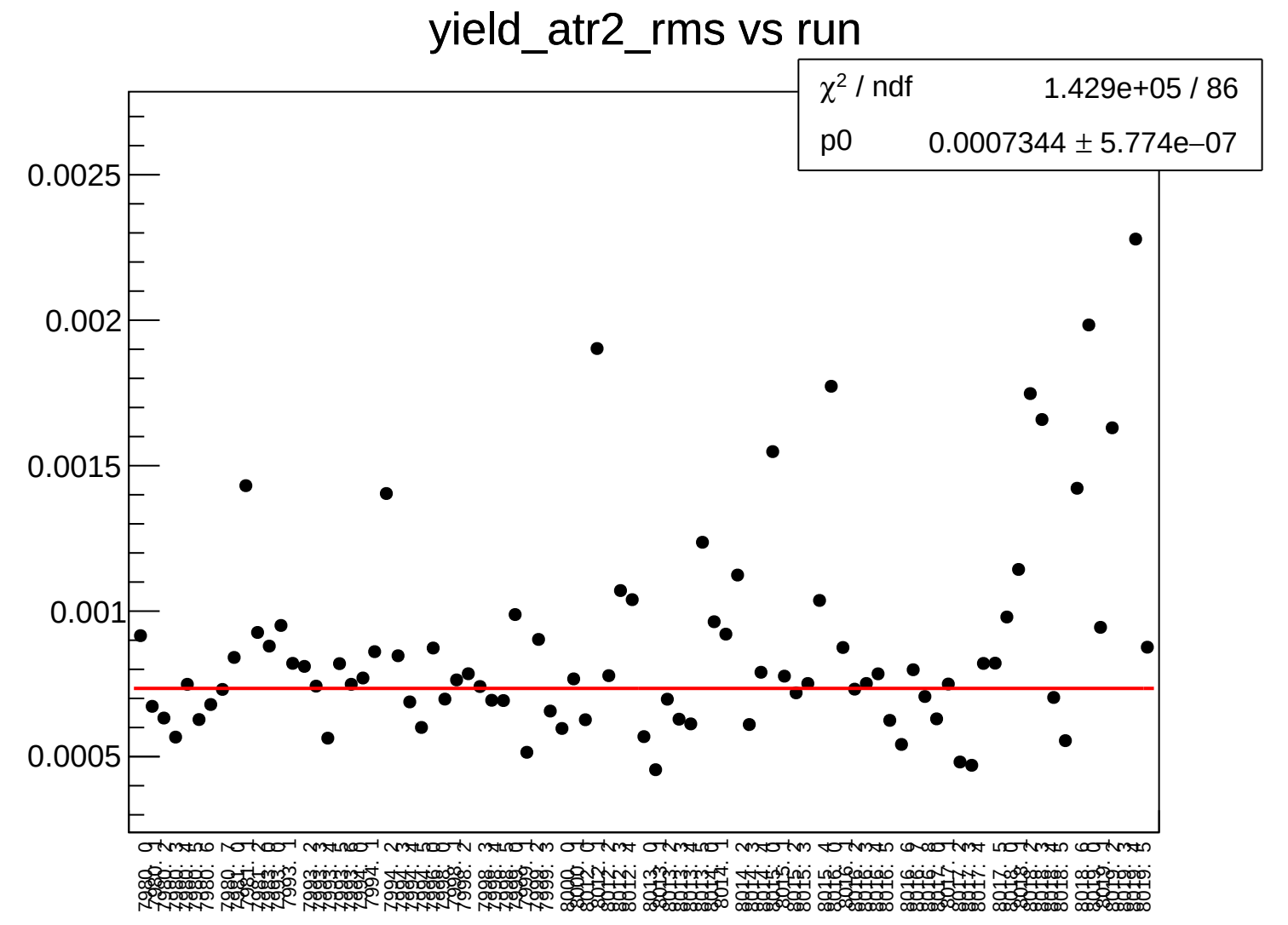

yield_atl2_rms vs run
χ^2 / ndf 1.558e+05 / 86
p0 0.0008019 ± 6.33e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

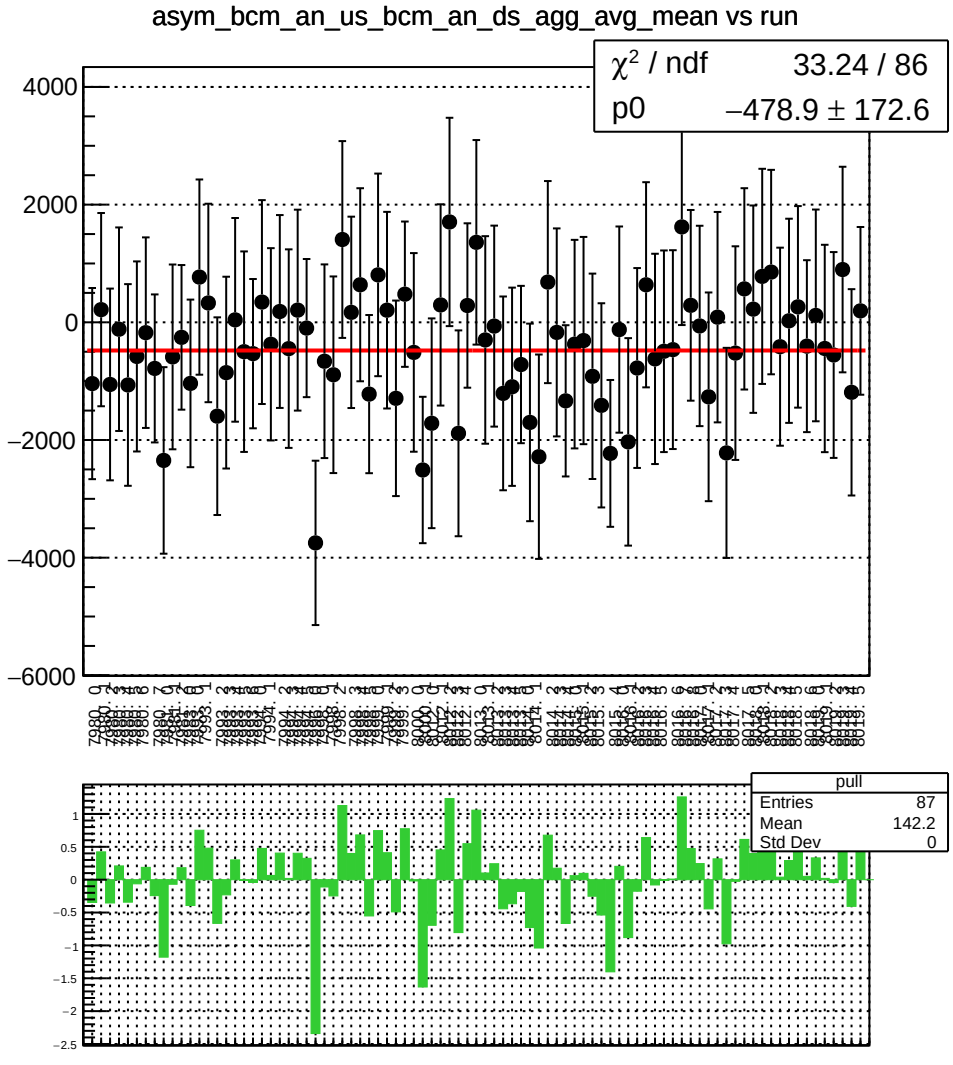

yield_atr1_mean vs run
χ² / ndf 5.456e+06 / 86
p0 0.04121± 2.402e–07
0.043
0.0425
0.042
0.0415
0.041
0.0405
pull
Entries 87
Mean –1683
Std Dev 0
800
600
400
200
0
–200

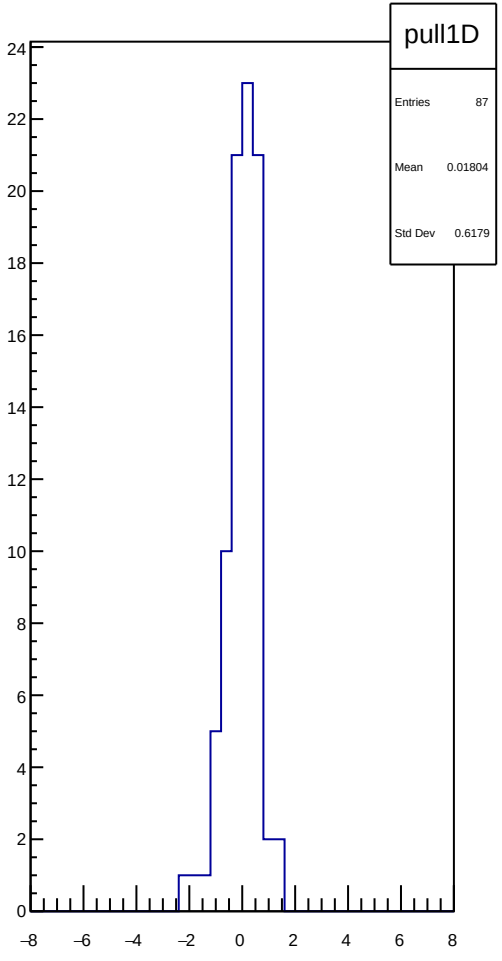

pull1D
Entries 87
Mean –0.581
Std Dev 6.412
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

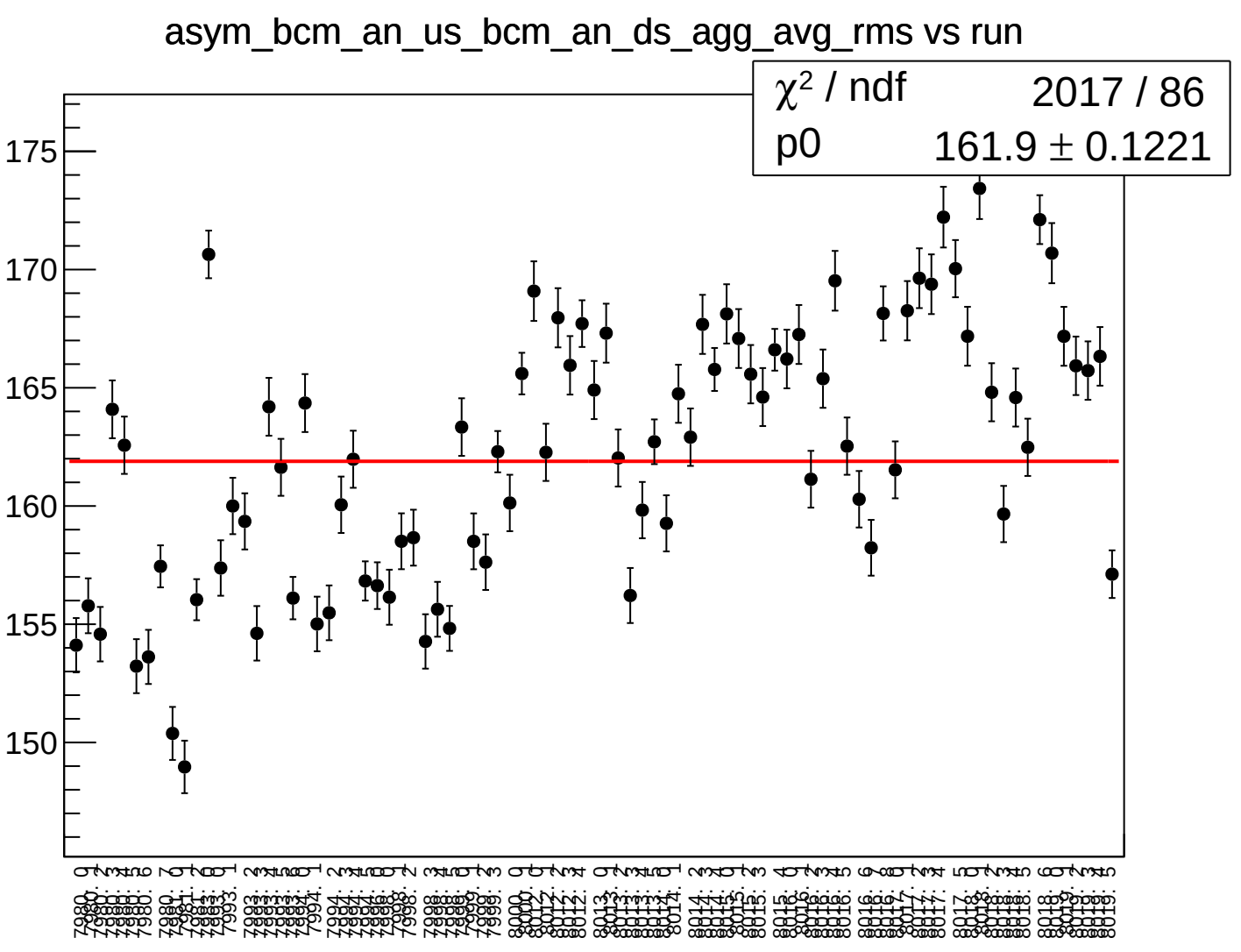

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.2e+05 / 86
p0 0.0002175 ± 1.698e−07
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

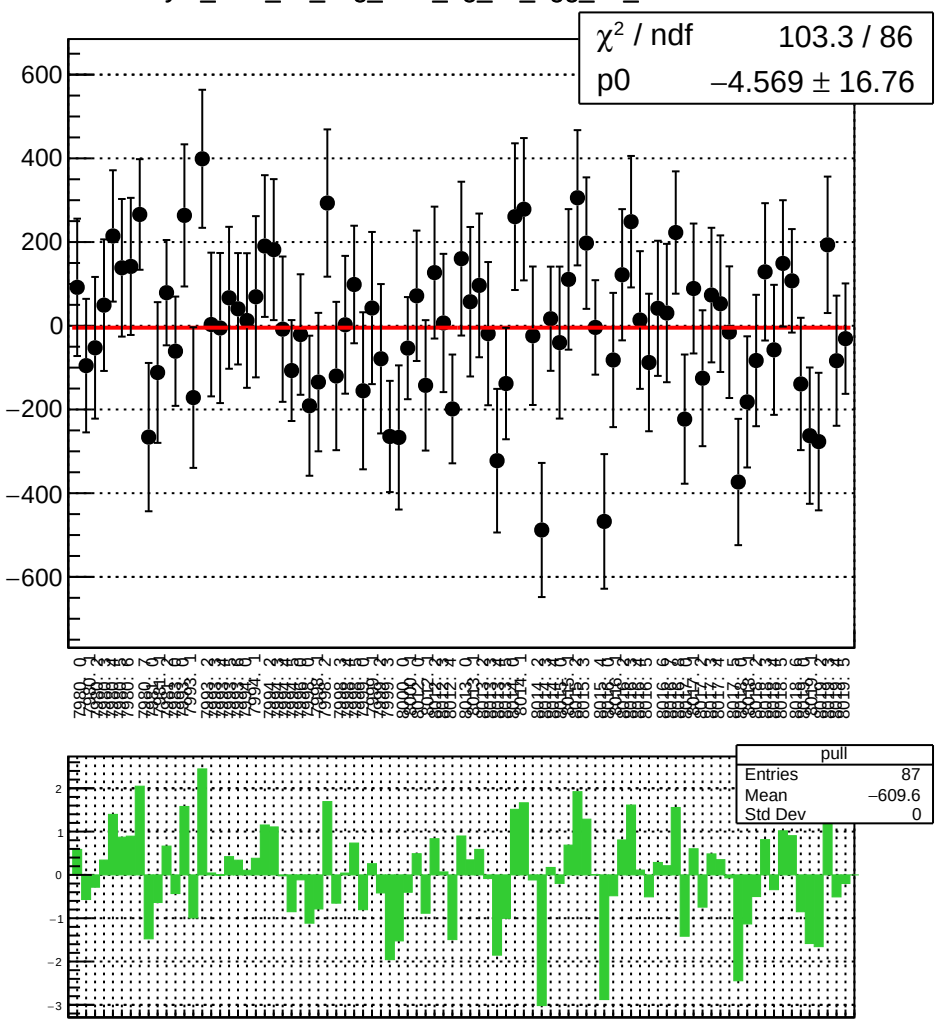

yield_atr2_mean vs run
χ² / ndf 1.77e+06 / 86
p0 0.02341± 8.166e−07
0.028
0.027
0.026
0.025
0.024
0.023
0.022
pull
Entries 87
Mean 840
Std Dev 0
600
500
400
300
200
100
0
−100
−200
pull1D
Entries 87
Mean −5.097
Std Dev 2.217
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

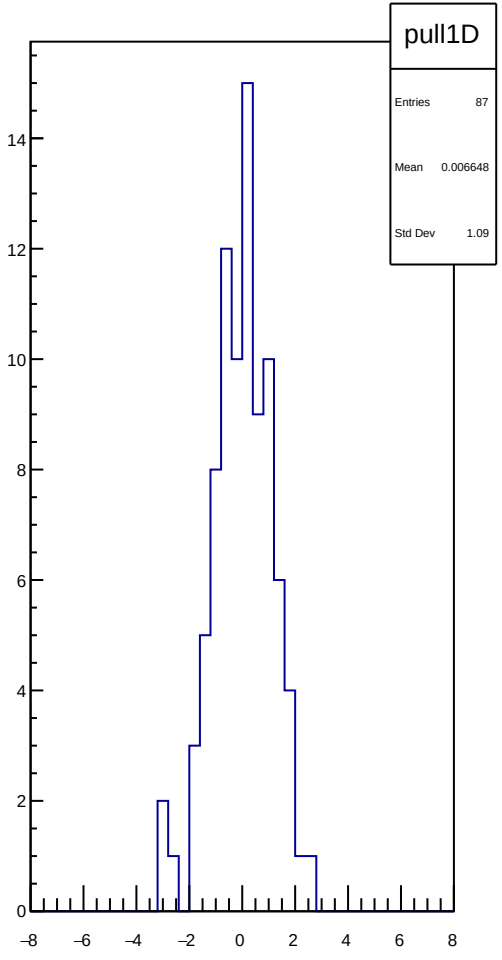

yield_atr2_rms vs run
χ² / ndf 1.429e+05 / 86
p0 0.0007344 ± 5.774e−07
0.0025
0.002
0.0015
0.001
0.0005

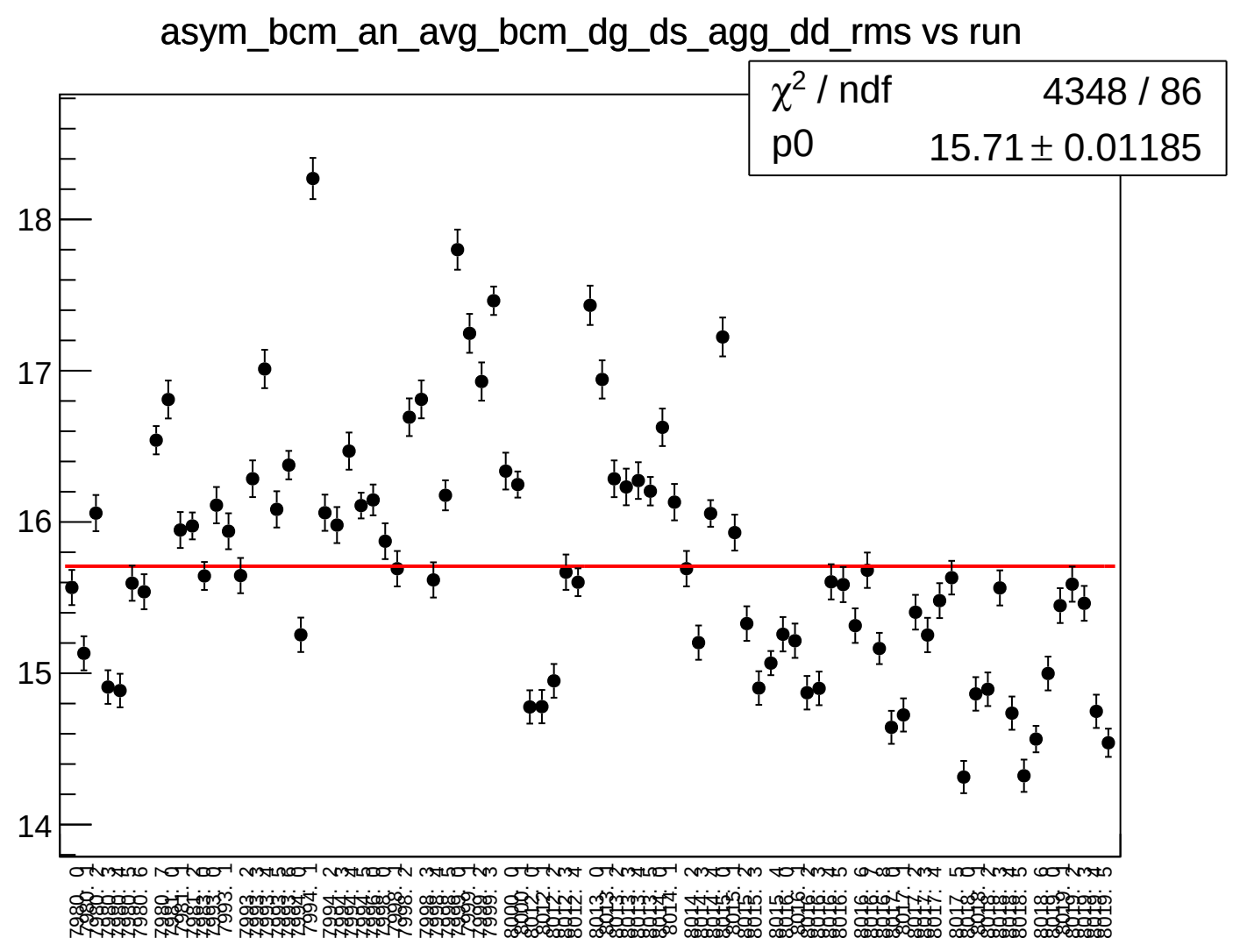

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 33.24 / 86
p0 −478.9 ± 172.6
pull
Entries 87
Mean 142.2
Std Dev 0

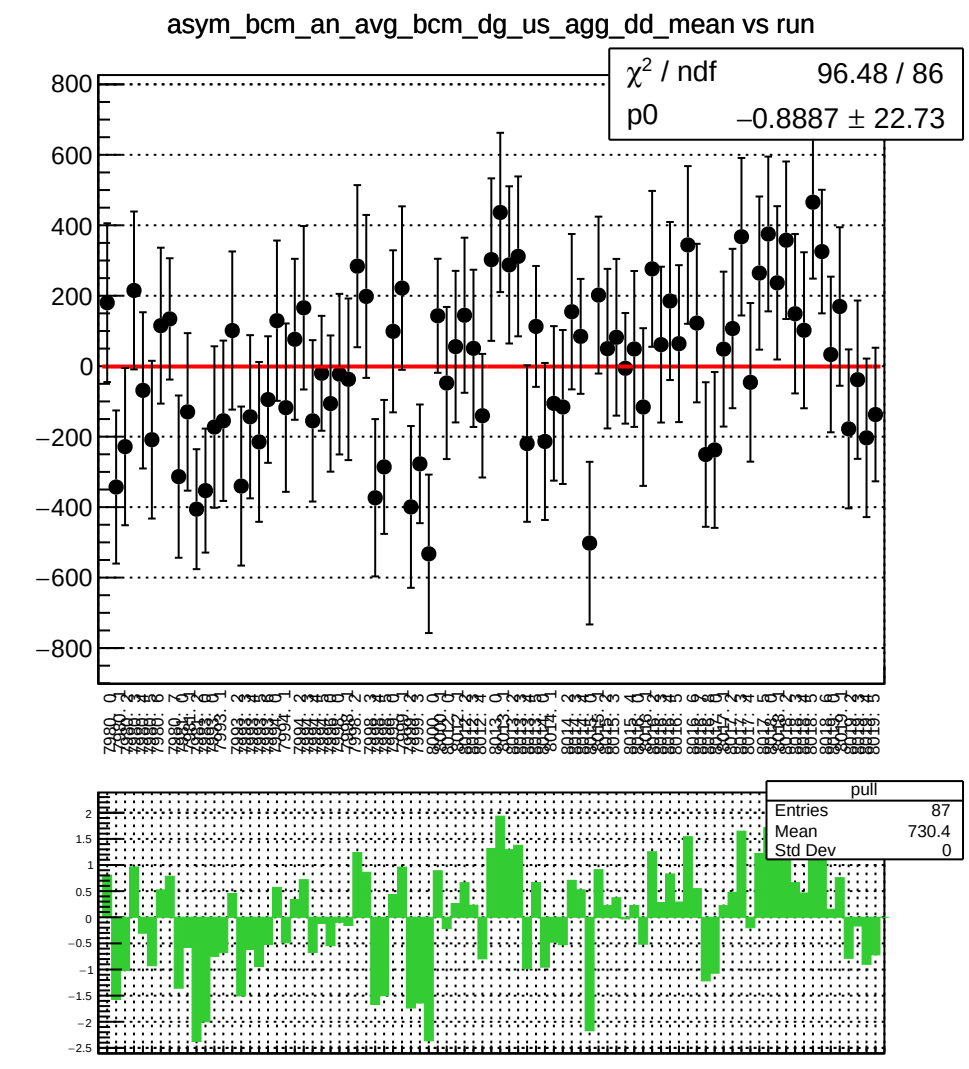

pull1D
Entries 87
Mean 0.01804
Std Dev 0.6179

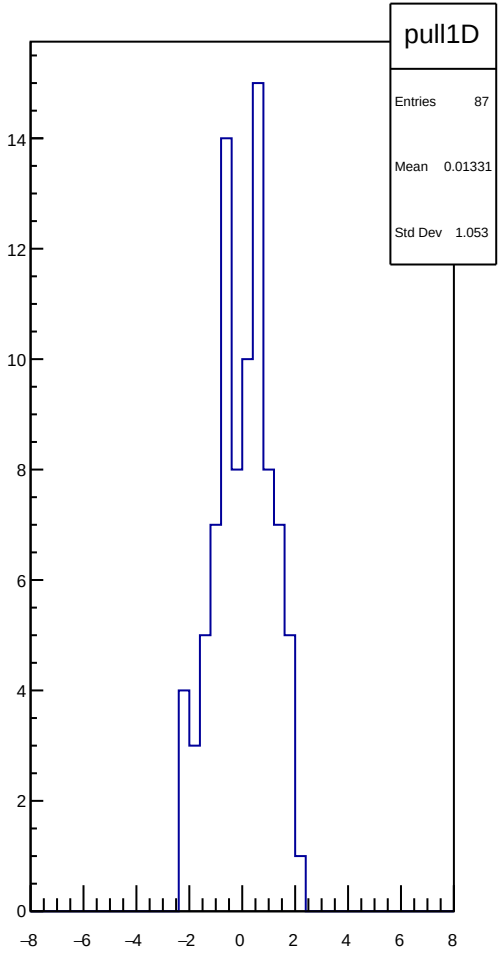

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2017 / 86
p0 161.9 ± 0.1221
175
170
165
160
155
150

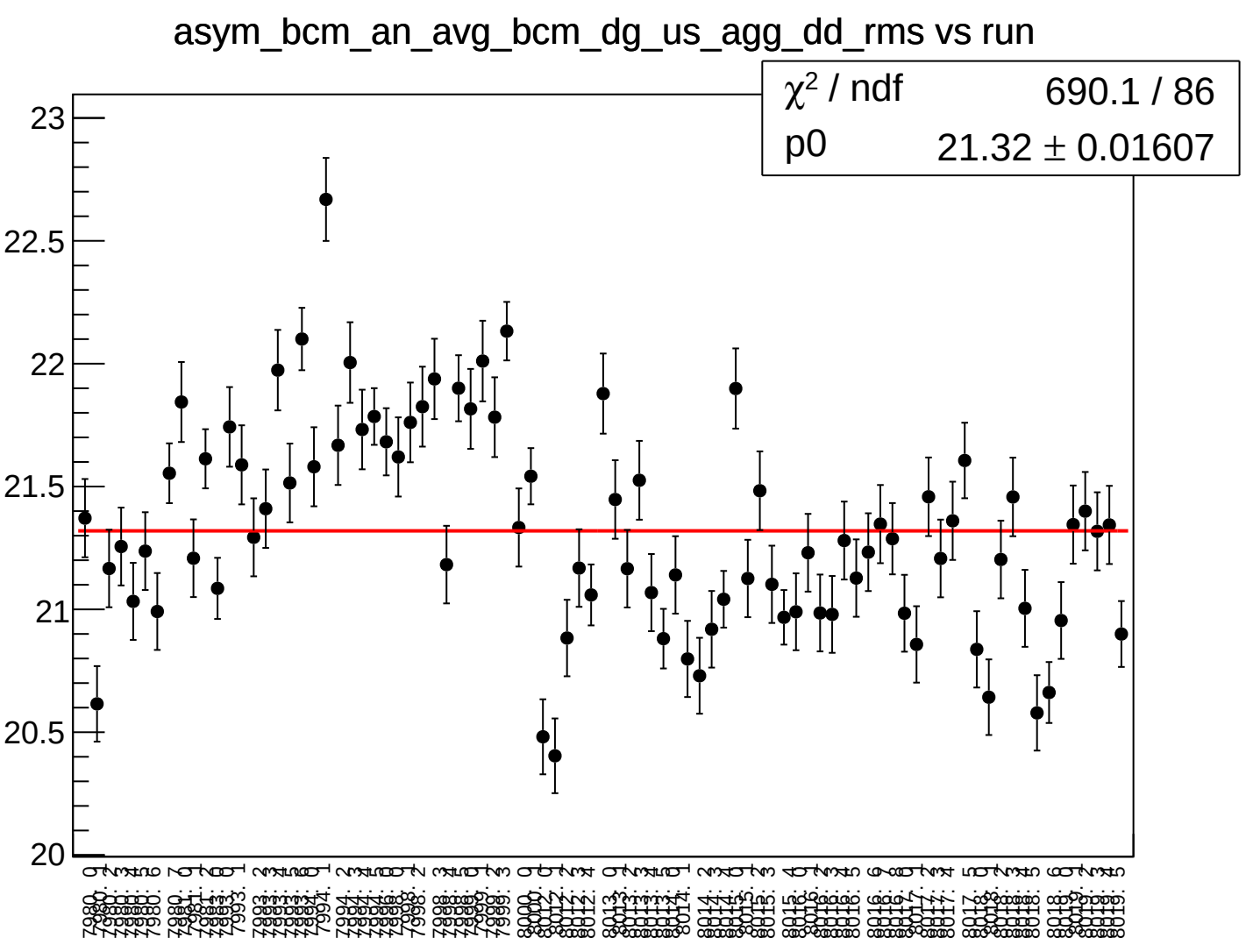

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 103.3 / 86
p0 −4.569 ± 16.76
pull
Entries 87
Mean −609.6
Std Dev 0

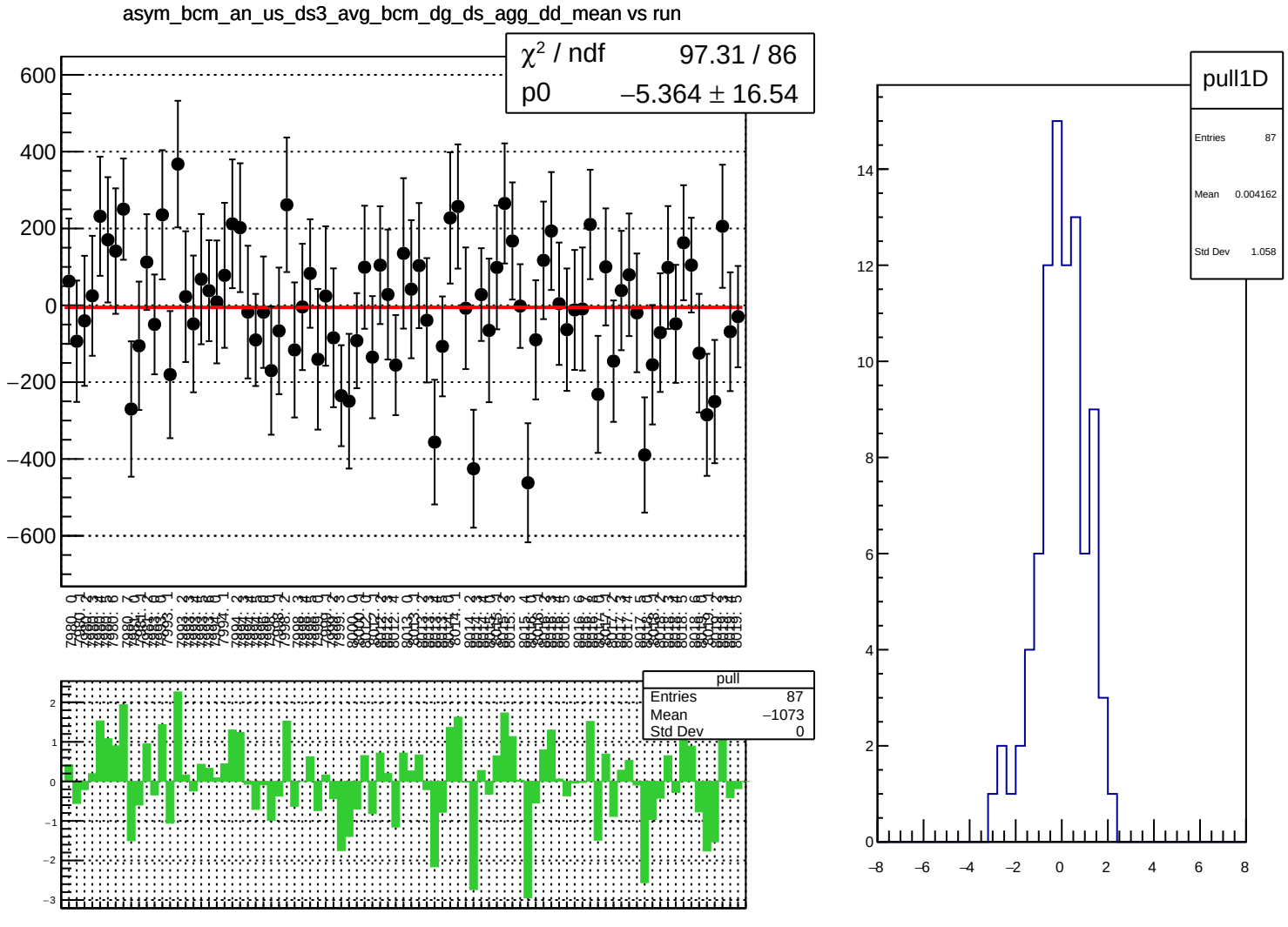

pull1D
Entries 87
Mean 0.006648
Std Dev 1.09

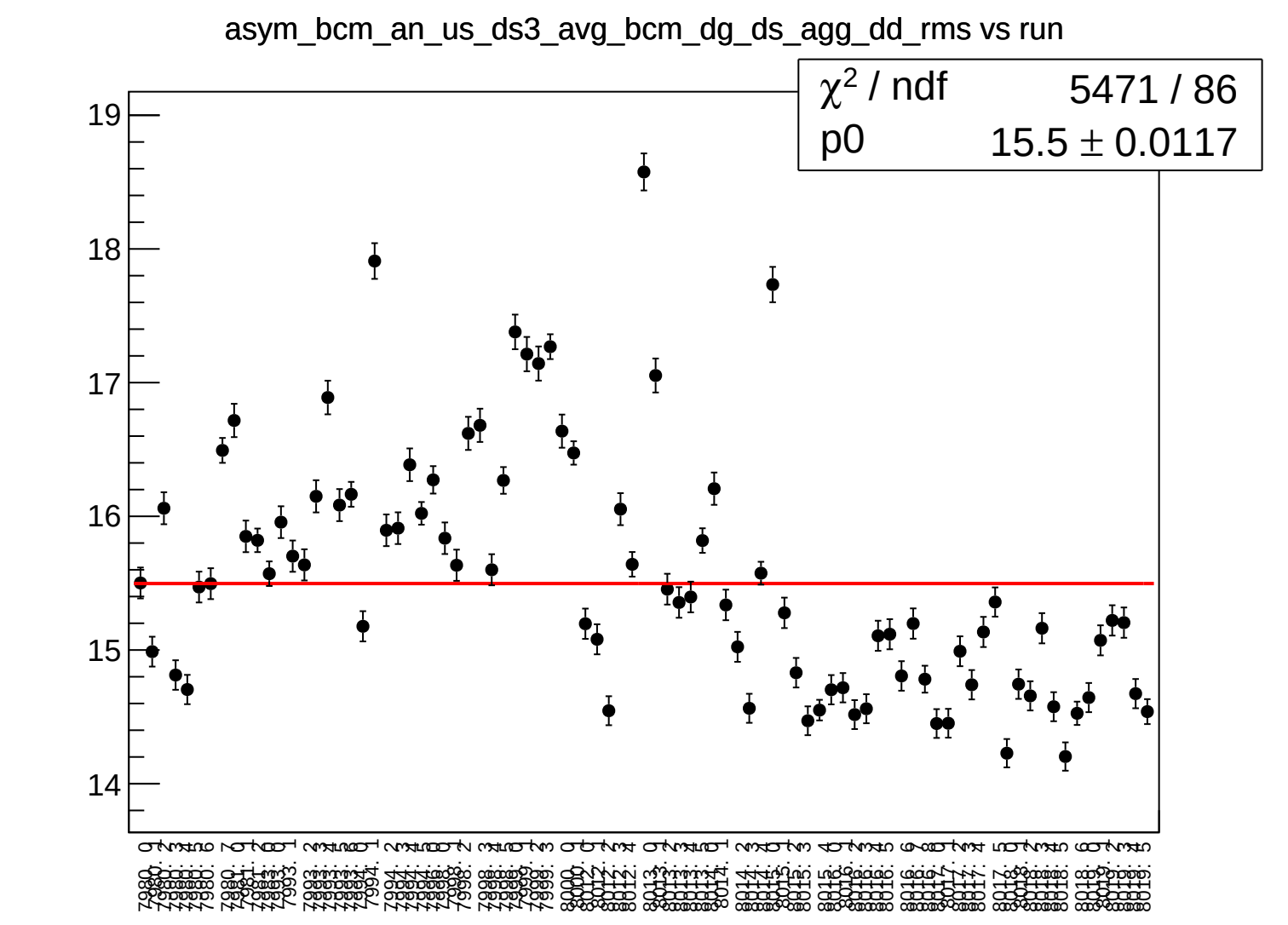

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4348 / 86
p0 15.71 ± 0.01185
18
17
16
15
14

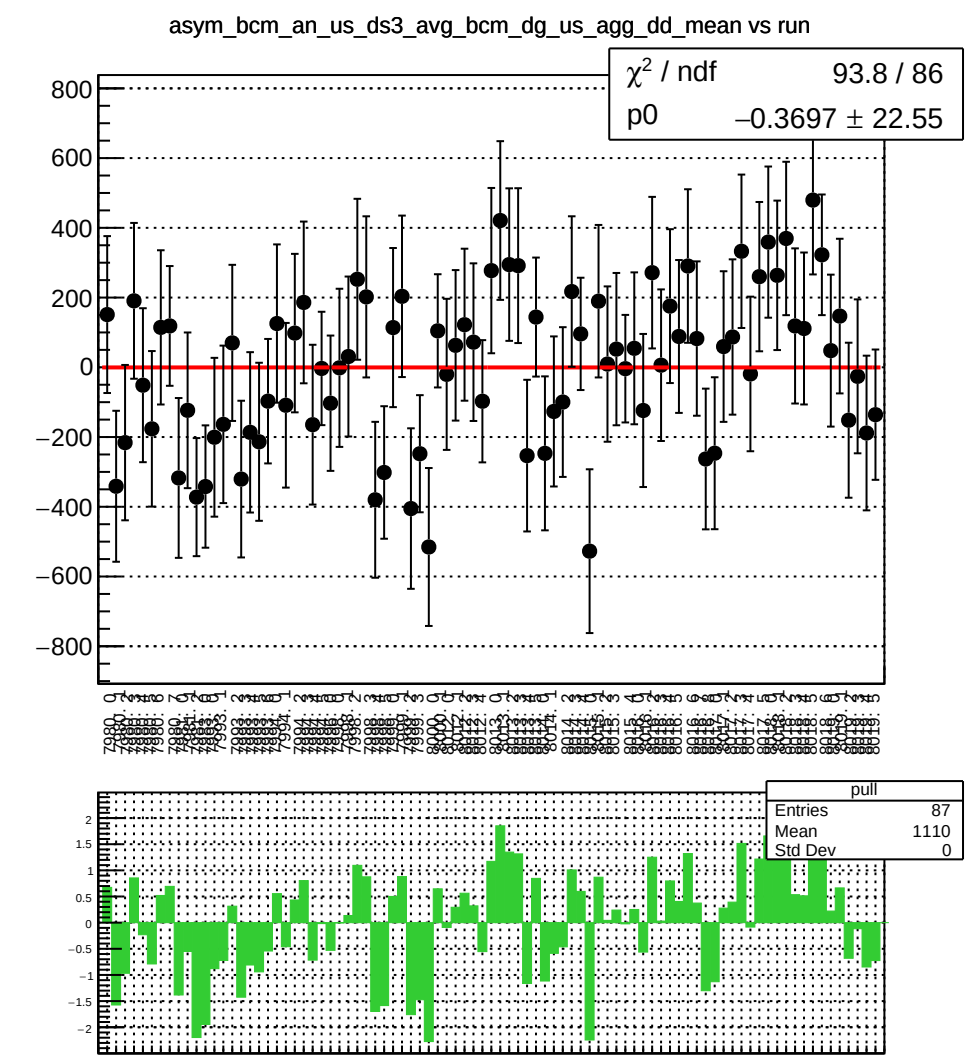

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 96.48 / 86
p0 −0.8887 ± 22.73
pull
Entries 87
Mean 730.4
Std Dev 0

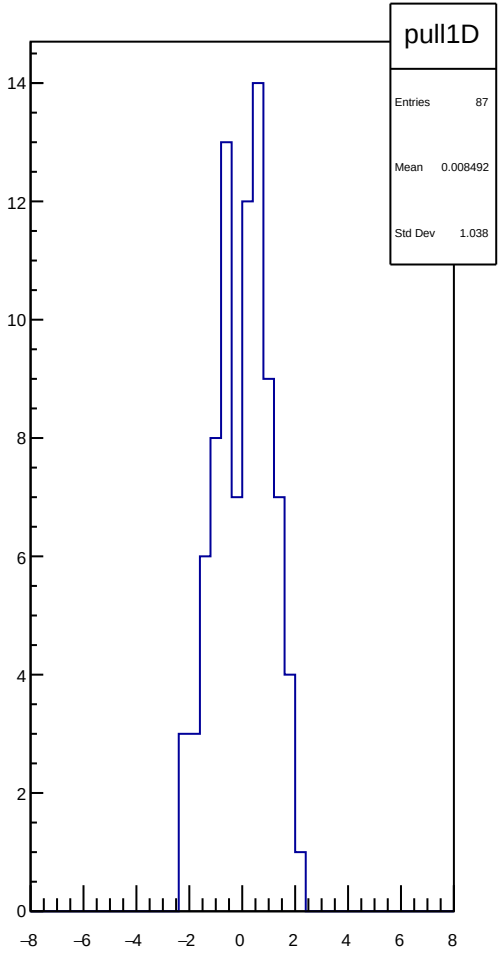

pull1D
Entries 87
Mean 0.01331
Std Dev 1.053

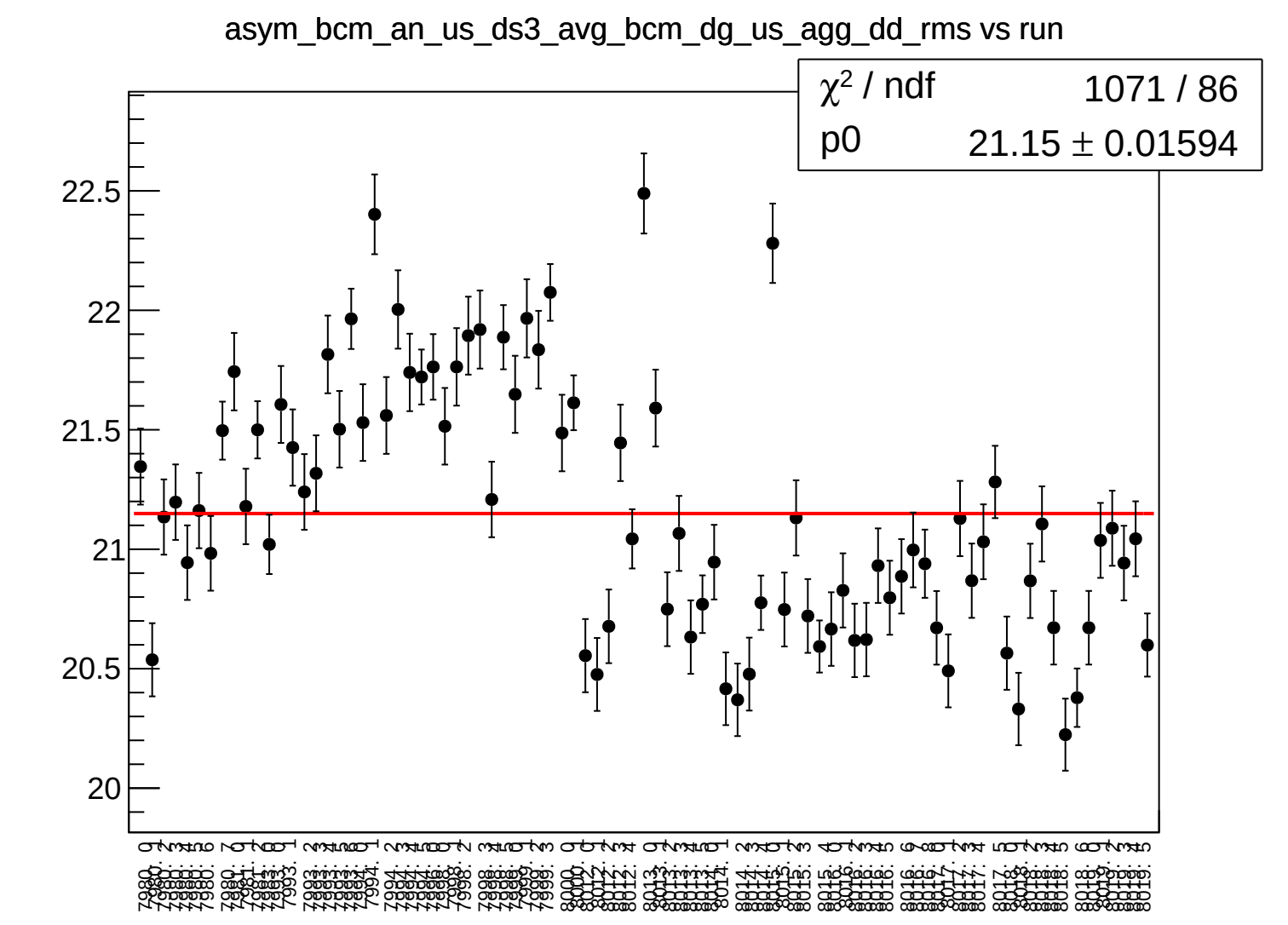

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 690.1 / 86
p0 21.32 ± 0.01607
23
22.5
22
21.5
21
20.5
20

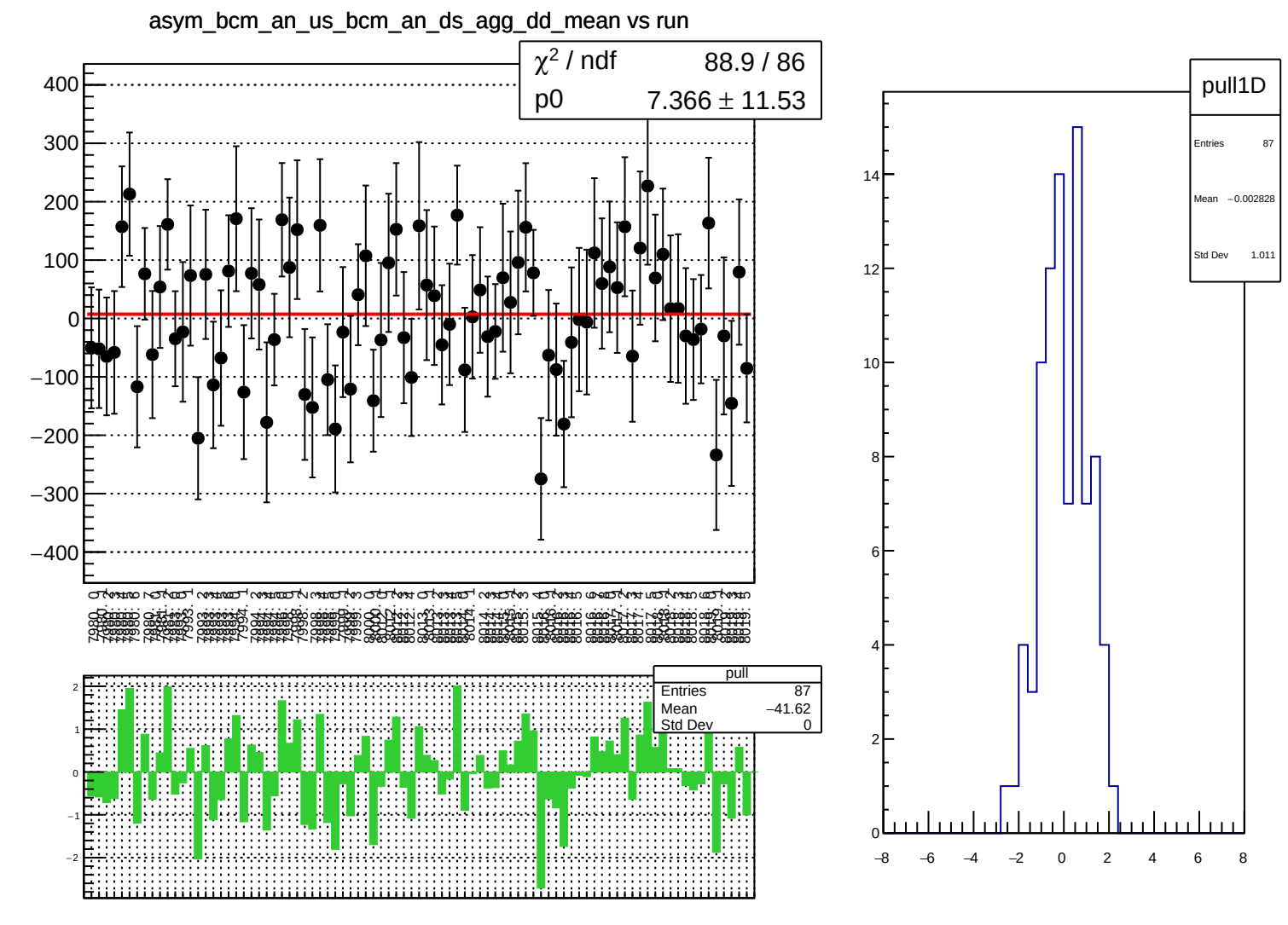

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 97.31 / 86
p0 −5.364 ± 16.54
pull
Entries 87
Mean −1073
Std Dev 0
pull1D
Entries 87
Mean 0.004162
Std Dev 1.058

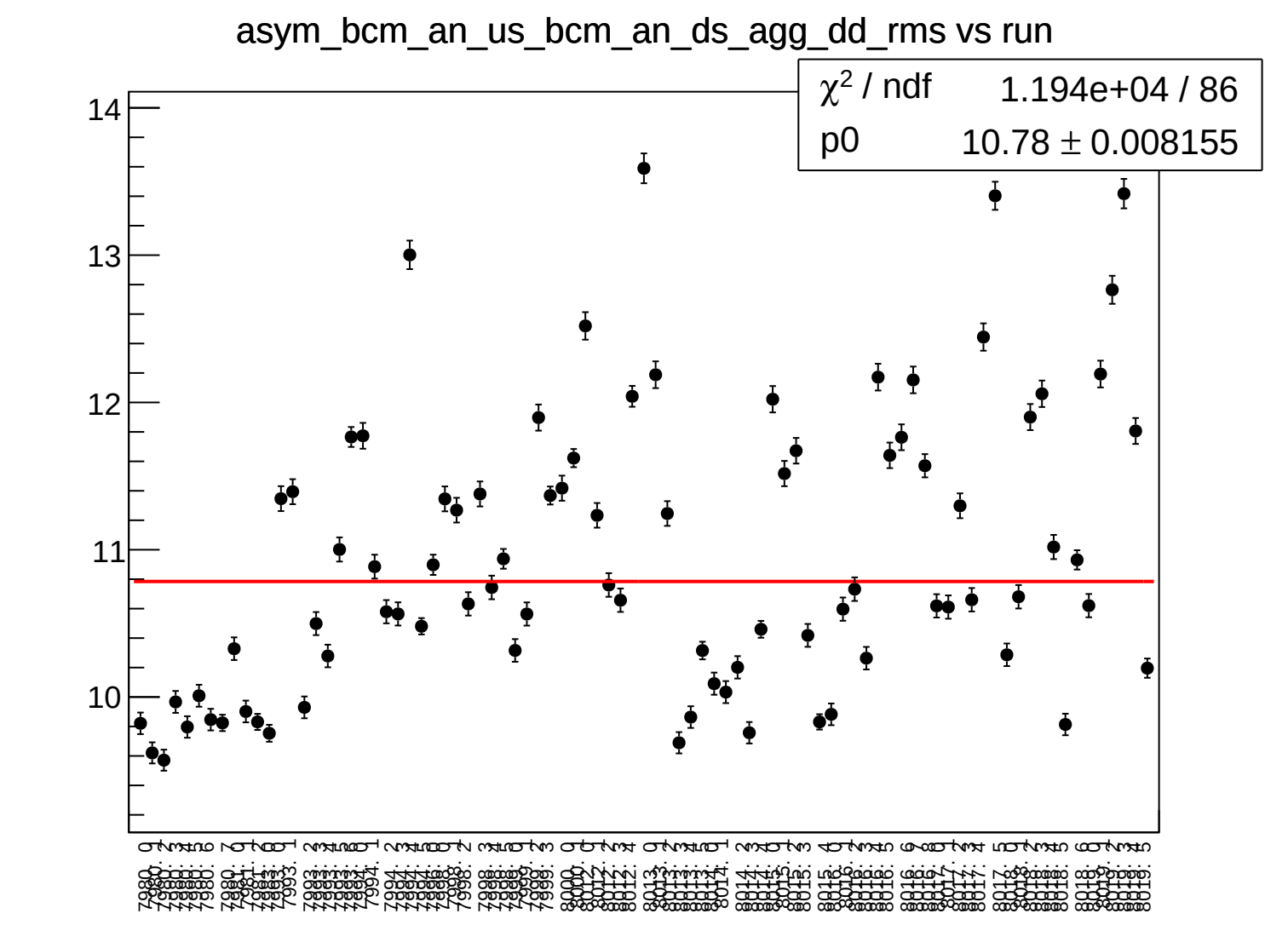

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5471 / 86
p0 15.5 ± 0.0117
19
18
17
16
15
14

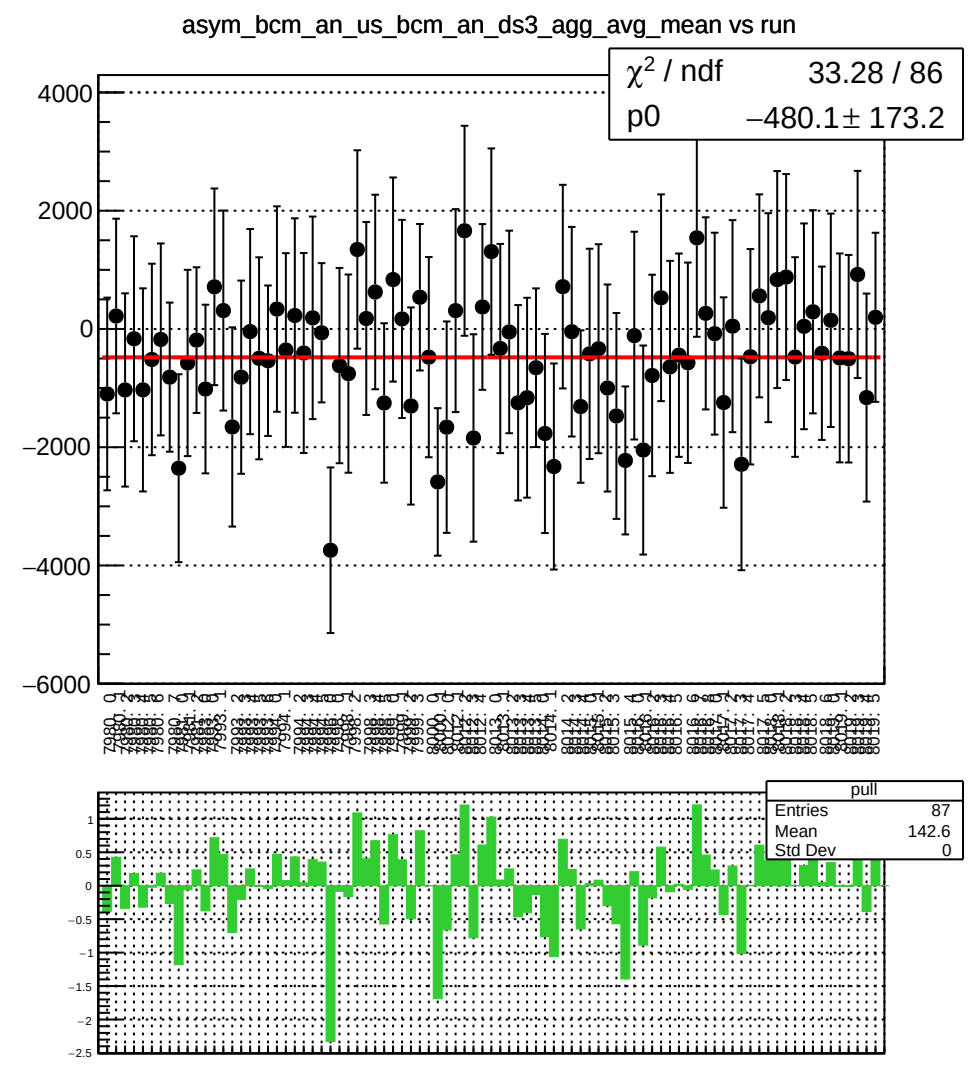

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 93.8 / 86
p0 −0.3697 ± 22.55
pull
Entries 87
Mean 1110
Std Dev 0

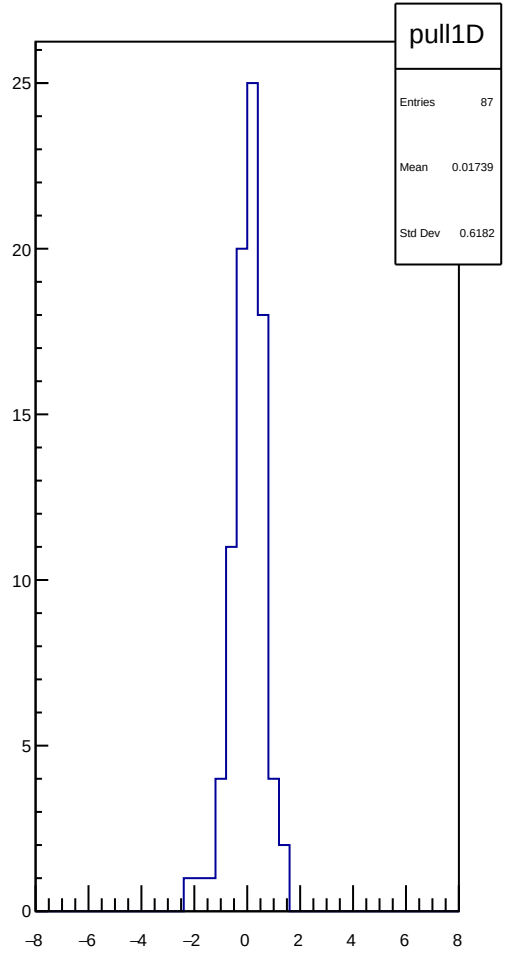

pull1D
Entries 87
Mean 0.008492
Std Dev 1.038

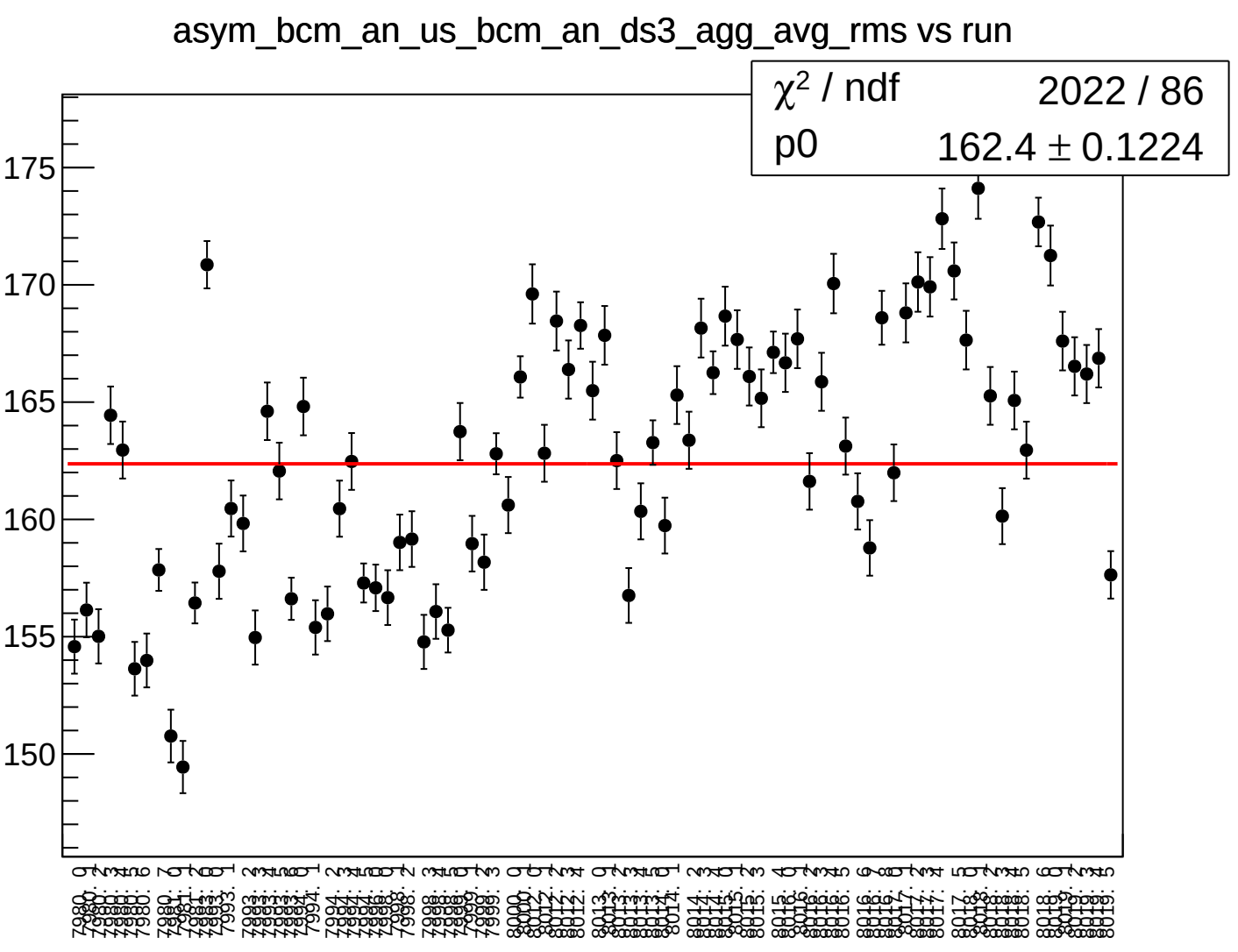

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1071 / 86
p0 21.15 ± 0.01594
22.5
22
21.5
21
20.5
20

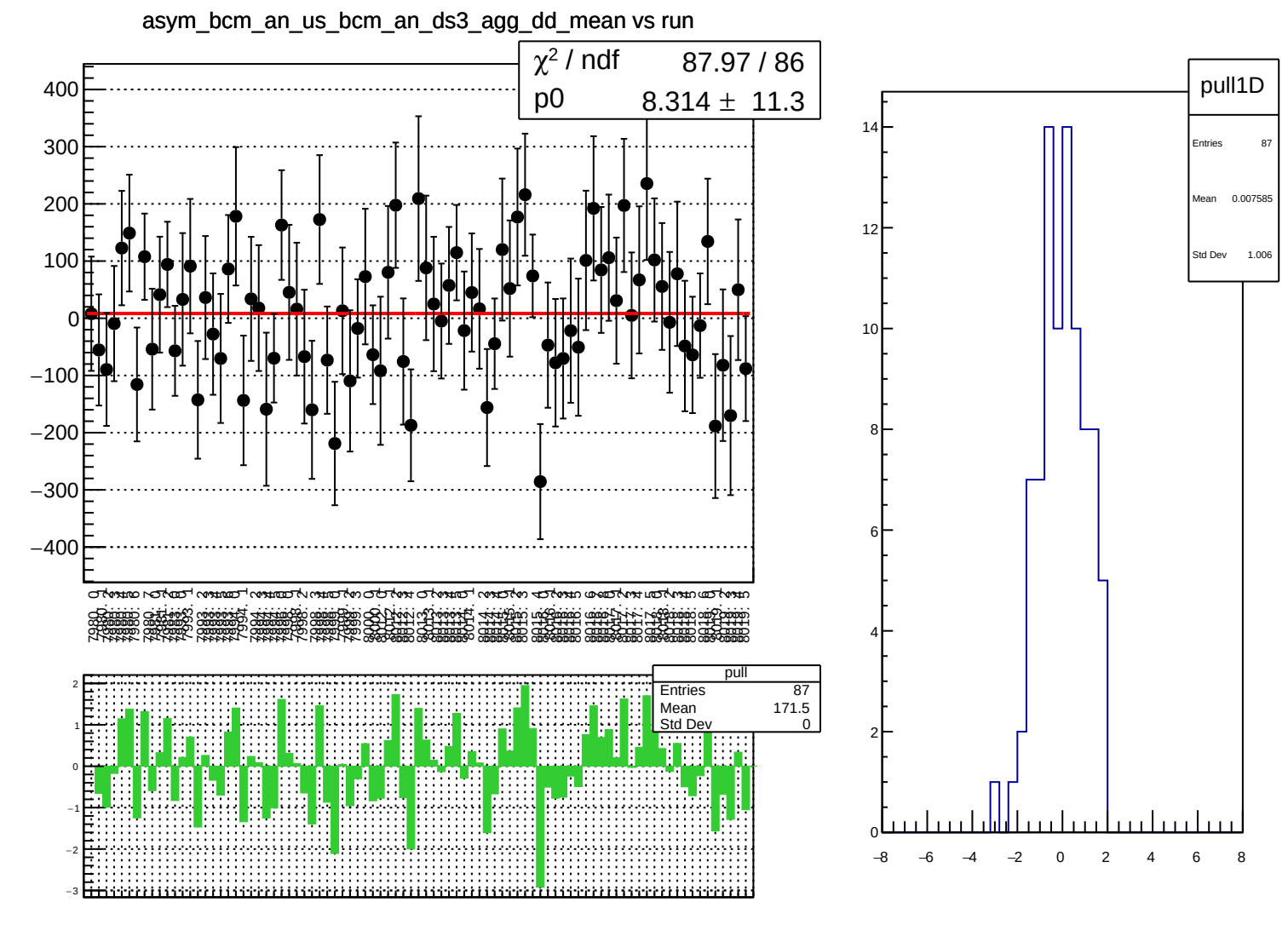

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 88.9 / 86
p0 7.366 ± 11.53
pull
Entries 87
Mean −41.62
Std Dev 0
pull1D
Entries 87
Mean −0.002828
Std Dev 1.011

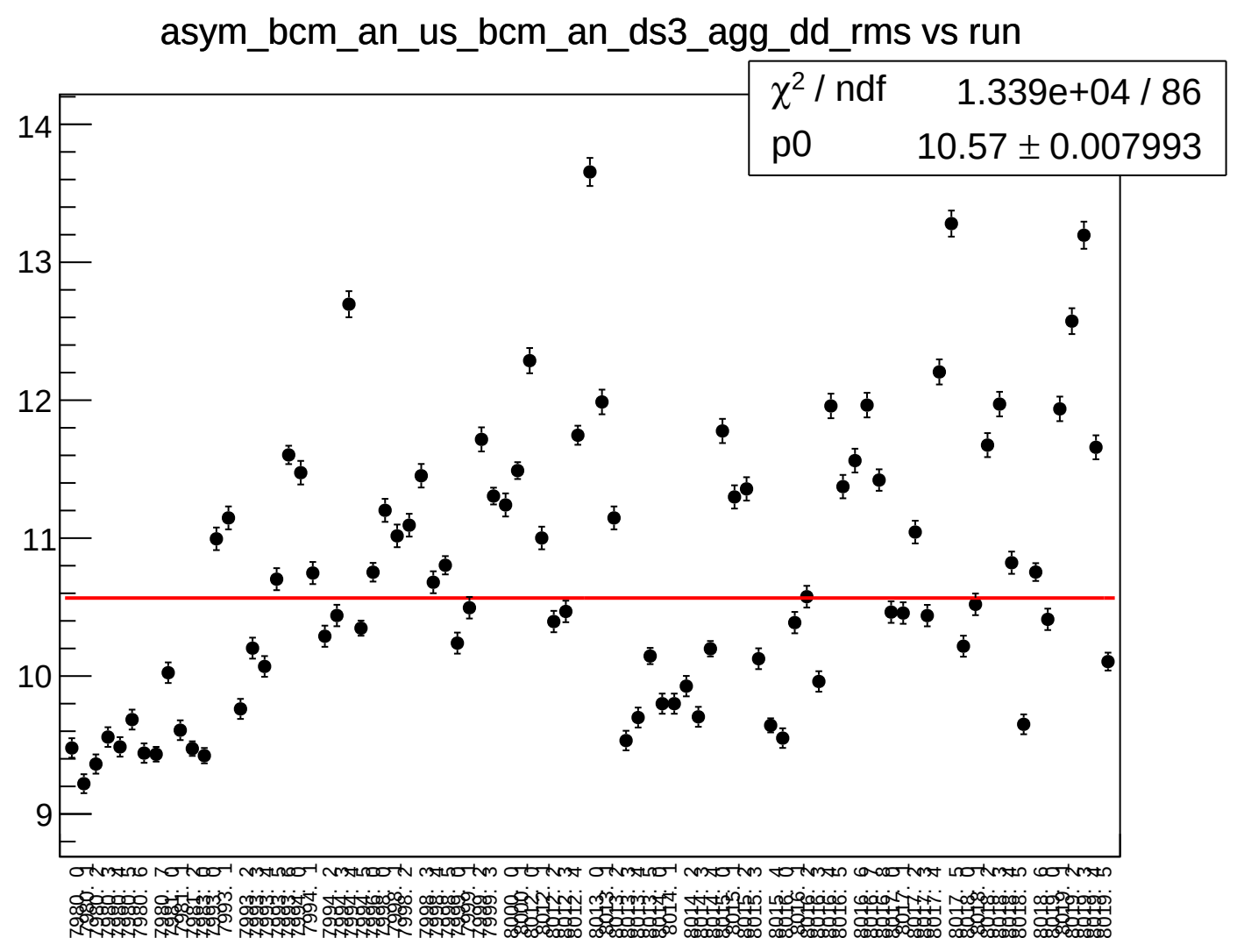

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.194e+04 / 86
p0 10.78 ± 0.008155
14
13
12
11
10

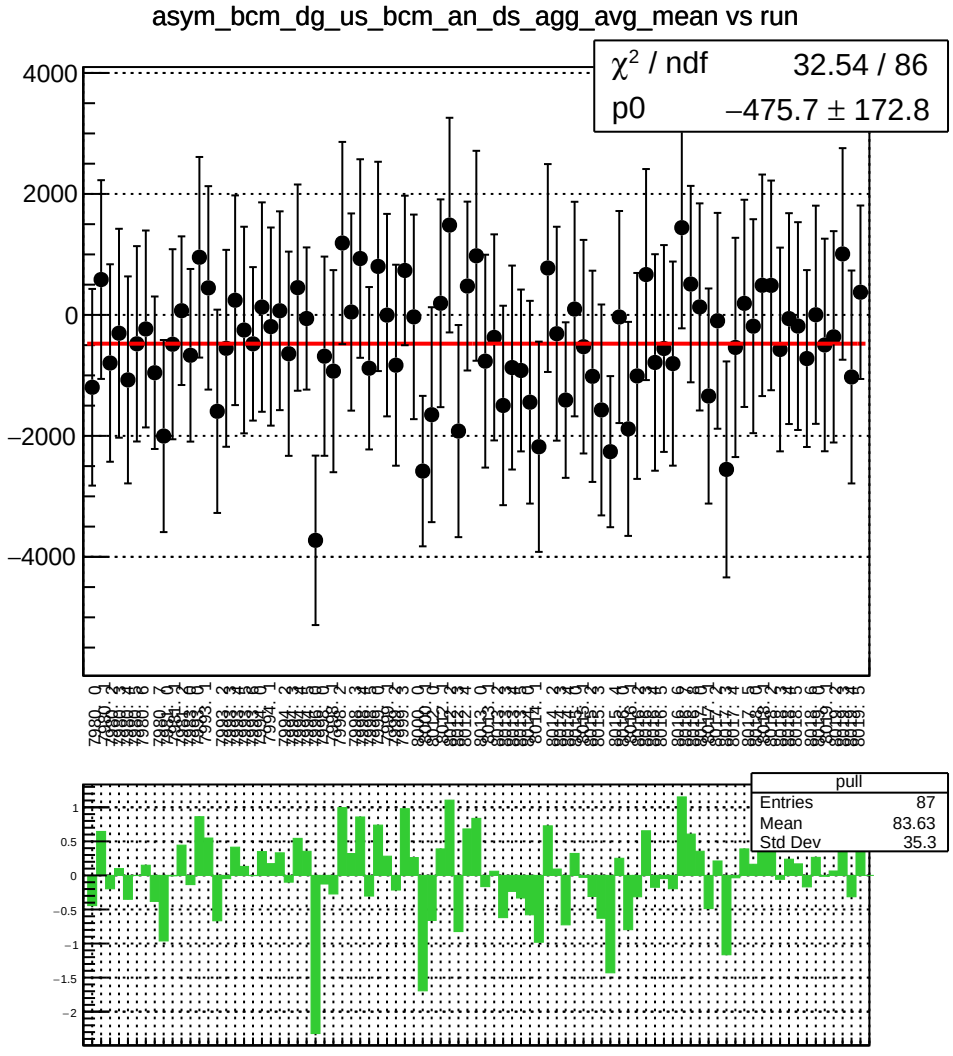

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 33.28 / 86
p0 −480.1± 173.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 142.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

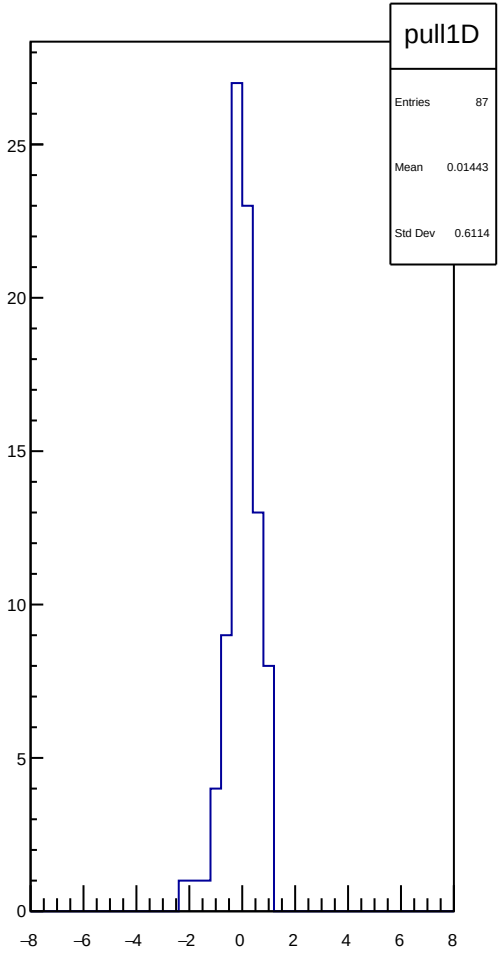

pull1D
Entries 87
Mean 0.01739
Std Dev 0.6182
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

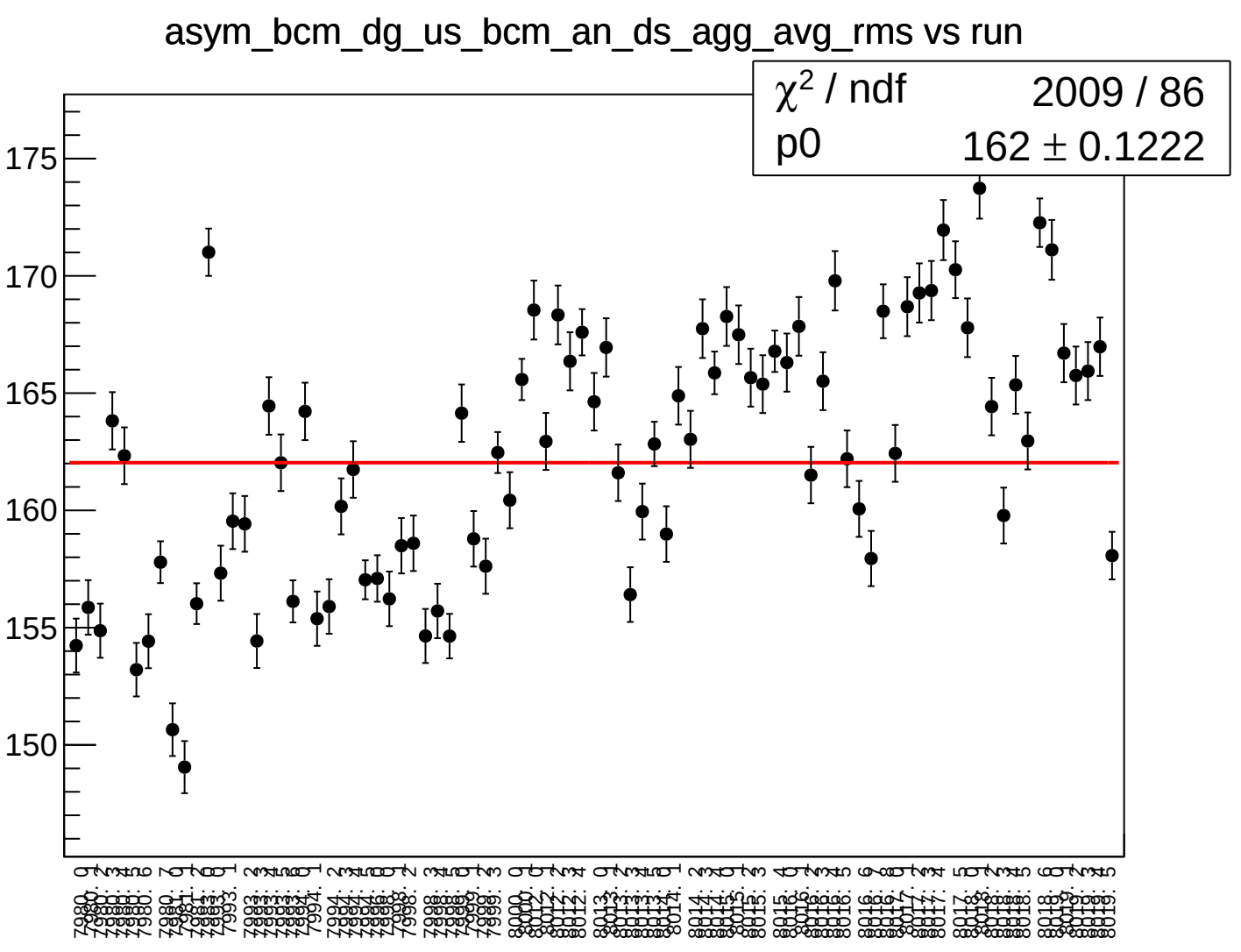

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2022 / 86
p0 162.4 ± 0.1224
175
170
165
160
155
150

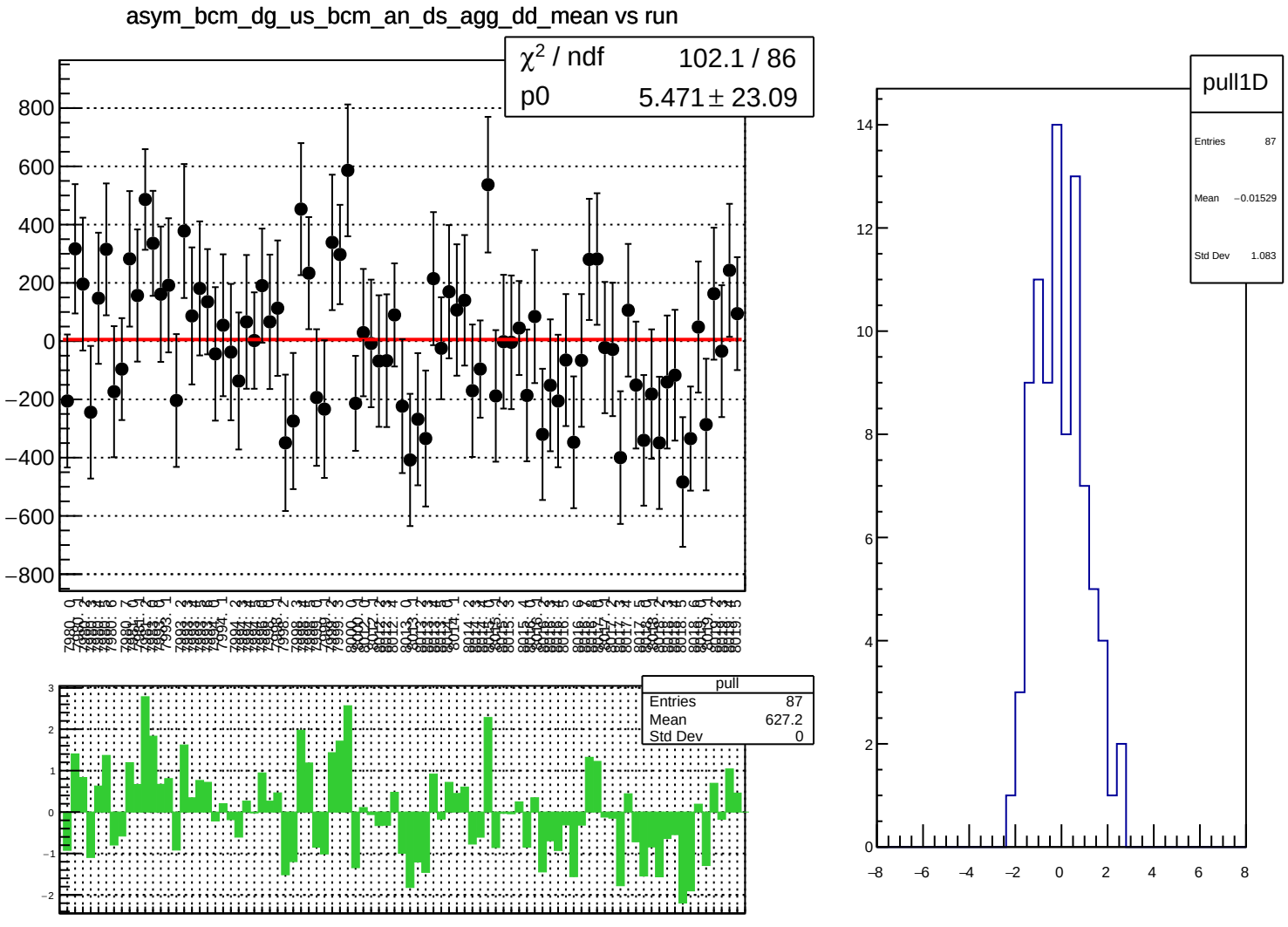

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 87.97 / 86
p0 8.314 ± 11.3
pull
Entries 87
Mean 171.5
Std Dev 0
pull1D
Entries 87
Mean 0.007585
Std Dev 1.006

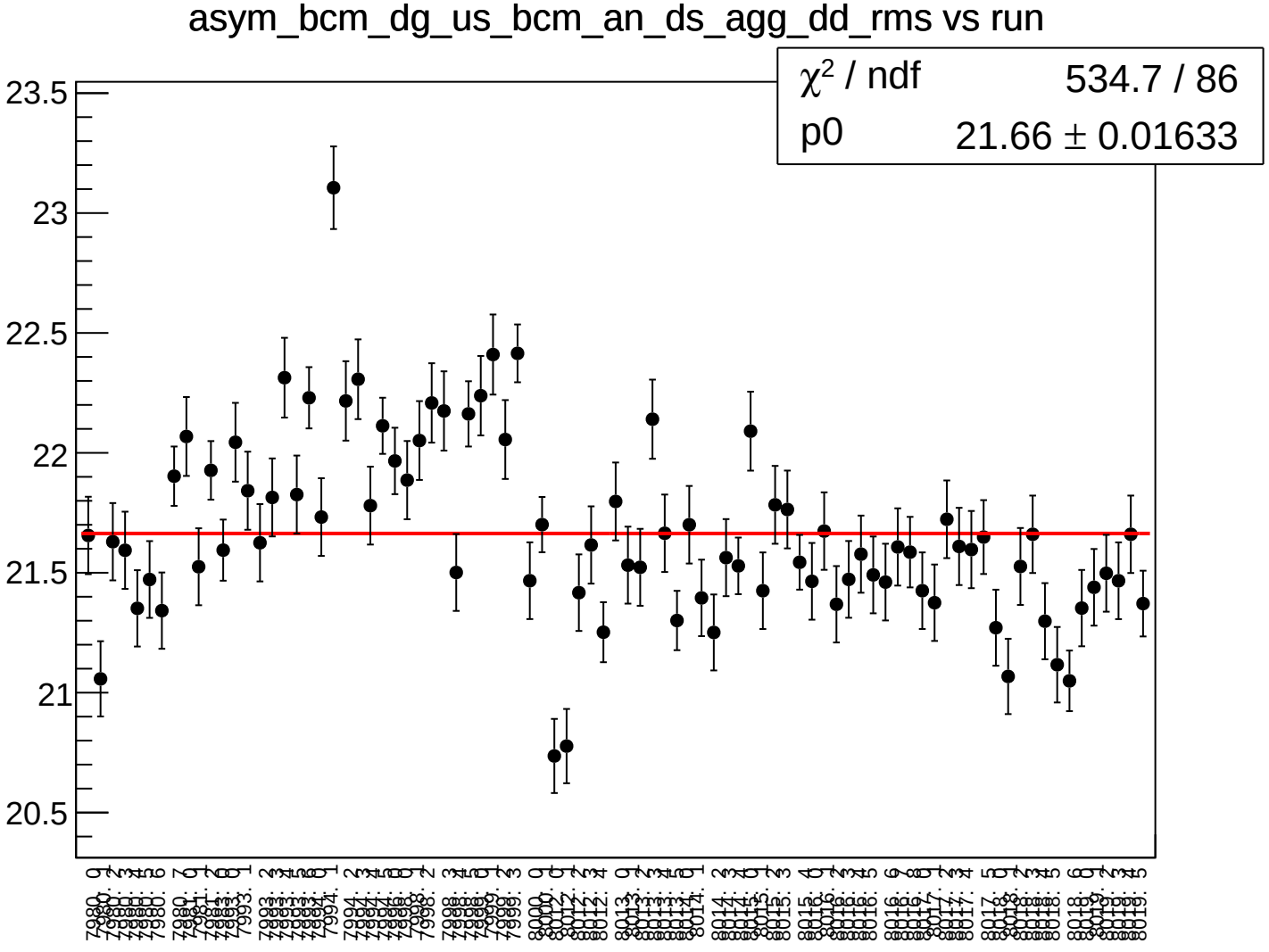

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.339e+04 / 86
p0 10.57 ± 0.007993
14
13
12
11
10
9

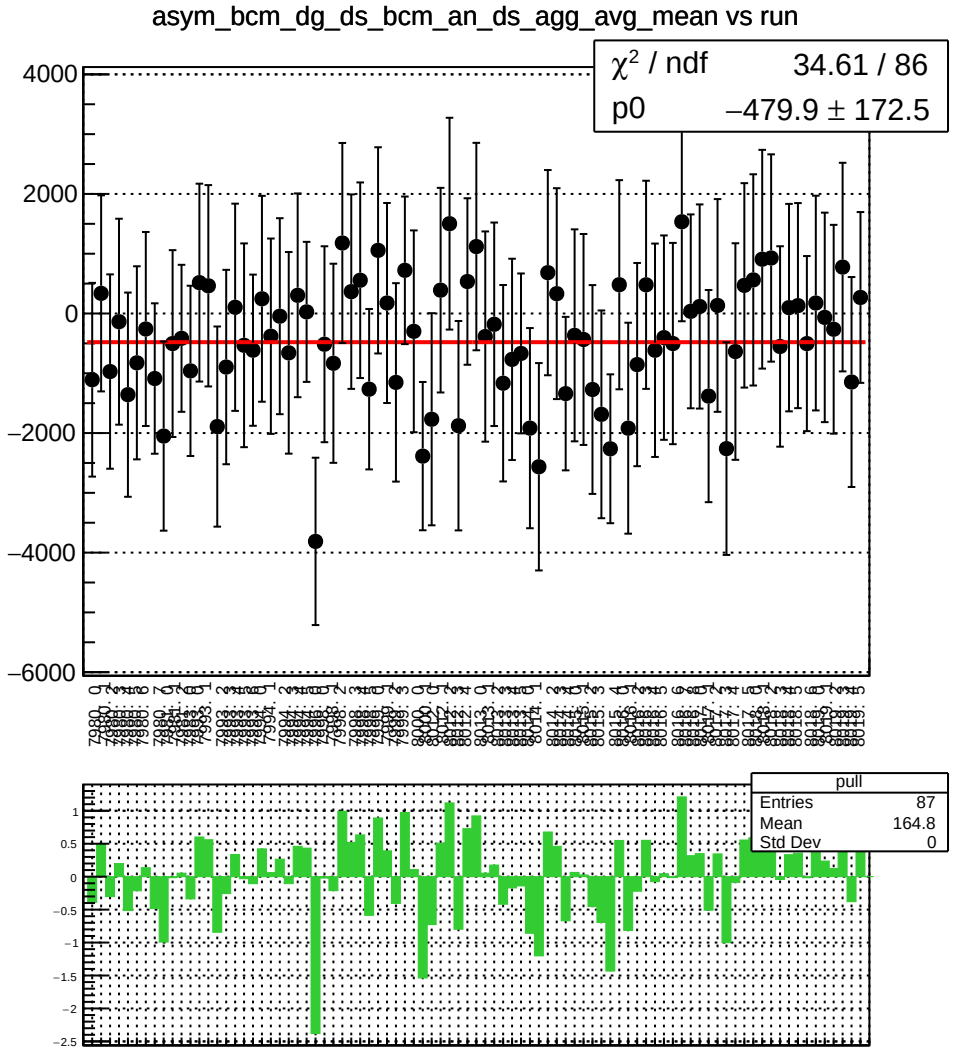

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 32.54 / 86
p0 −475.7 ± 172.8
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 83.63
Std Dev 35.3
1
0.5
0
−0.5
−1
−1.5
−2

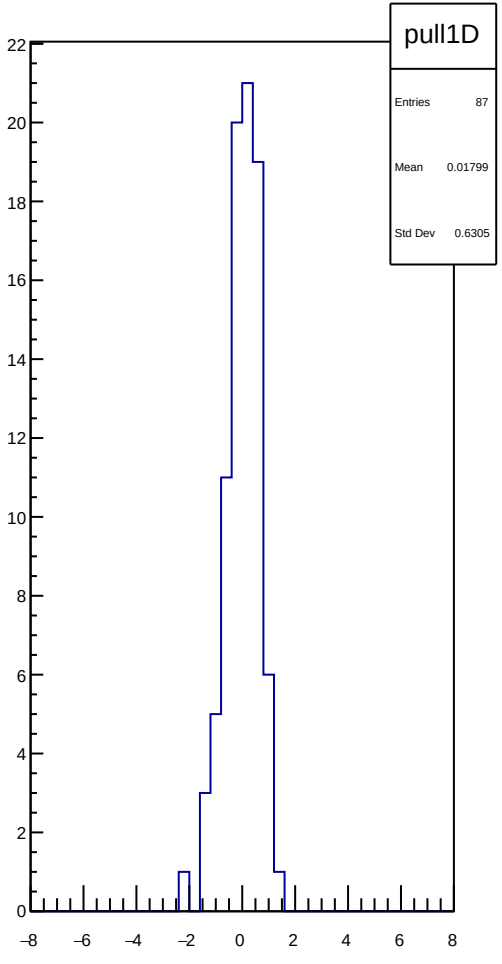

pull1D
Entries 87
Mean 0.01443
Std Dev 0.6114
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

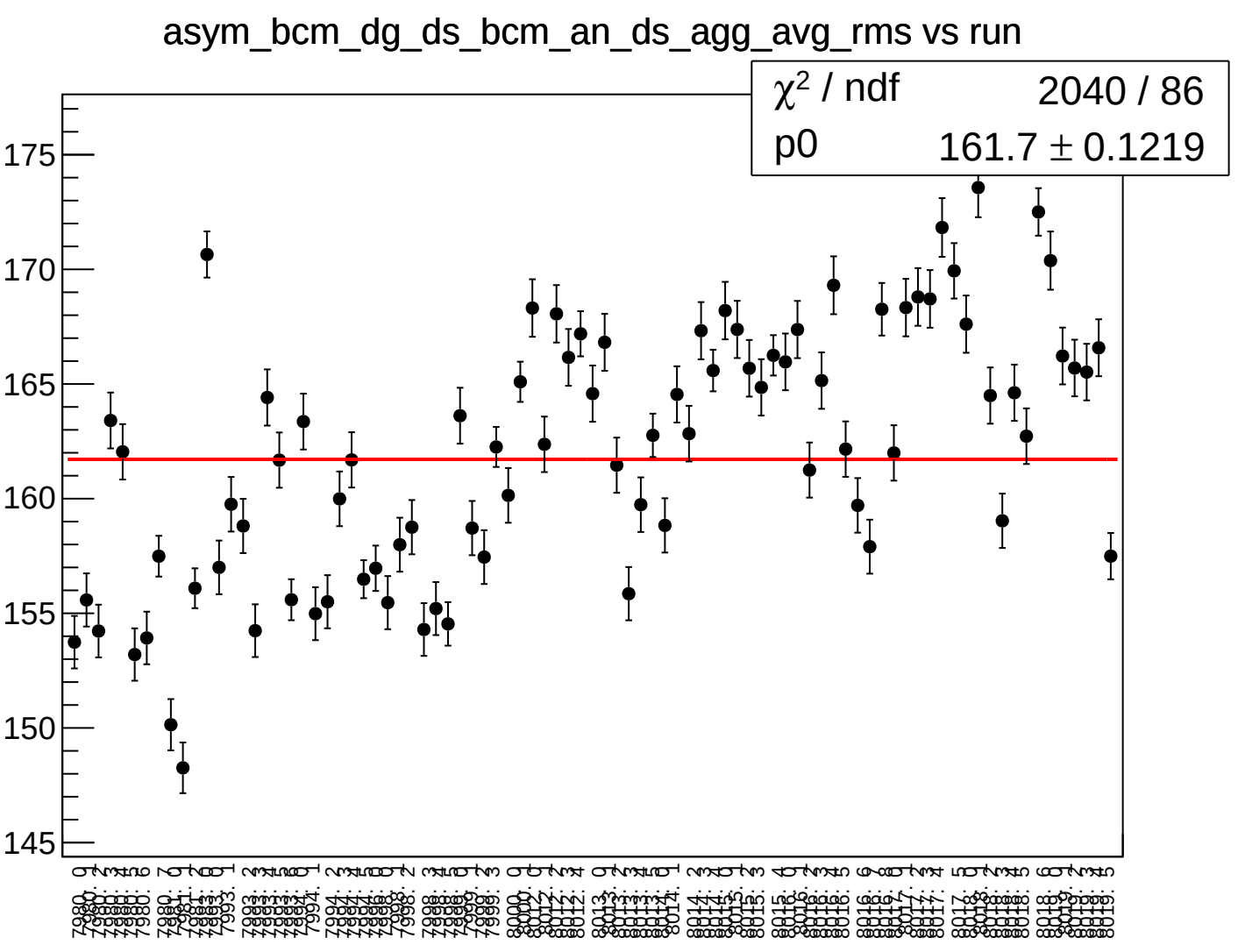

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2009 / 86
p0 162 ± 0.1222
175
170
165
160
155
150

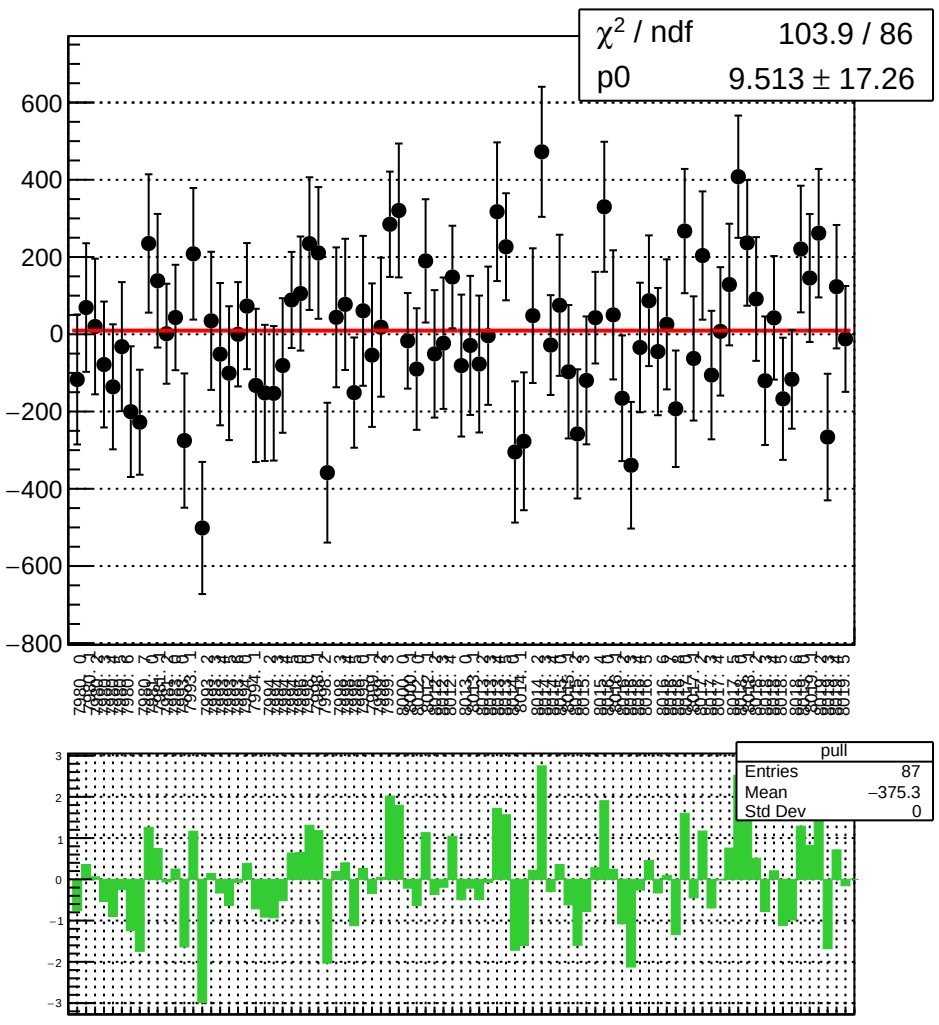

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 102.1 / 86
p0 5.471 ± 23.09
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean 627.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01529
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

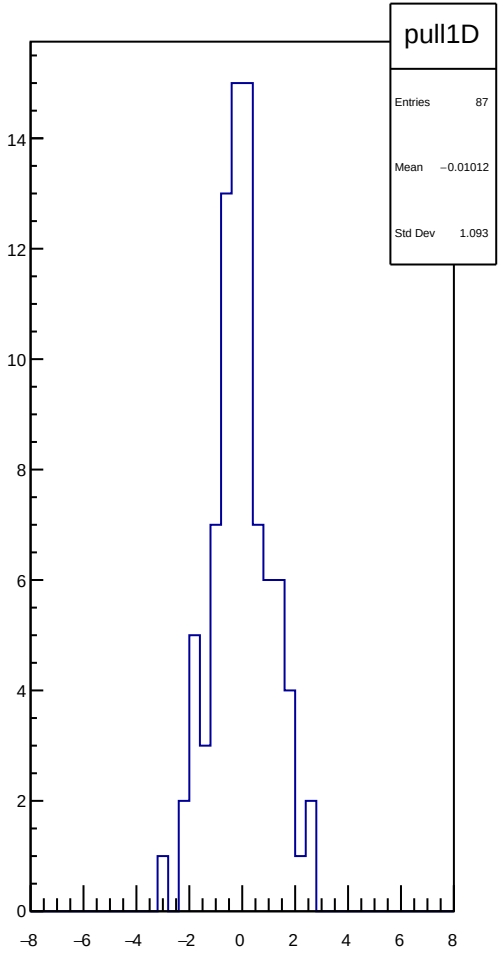

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 534.7 / 86
p0 21.66 ± 0.01633
23.5
23
22.5
22
21.5
21
20.5

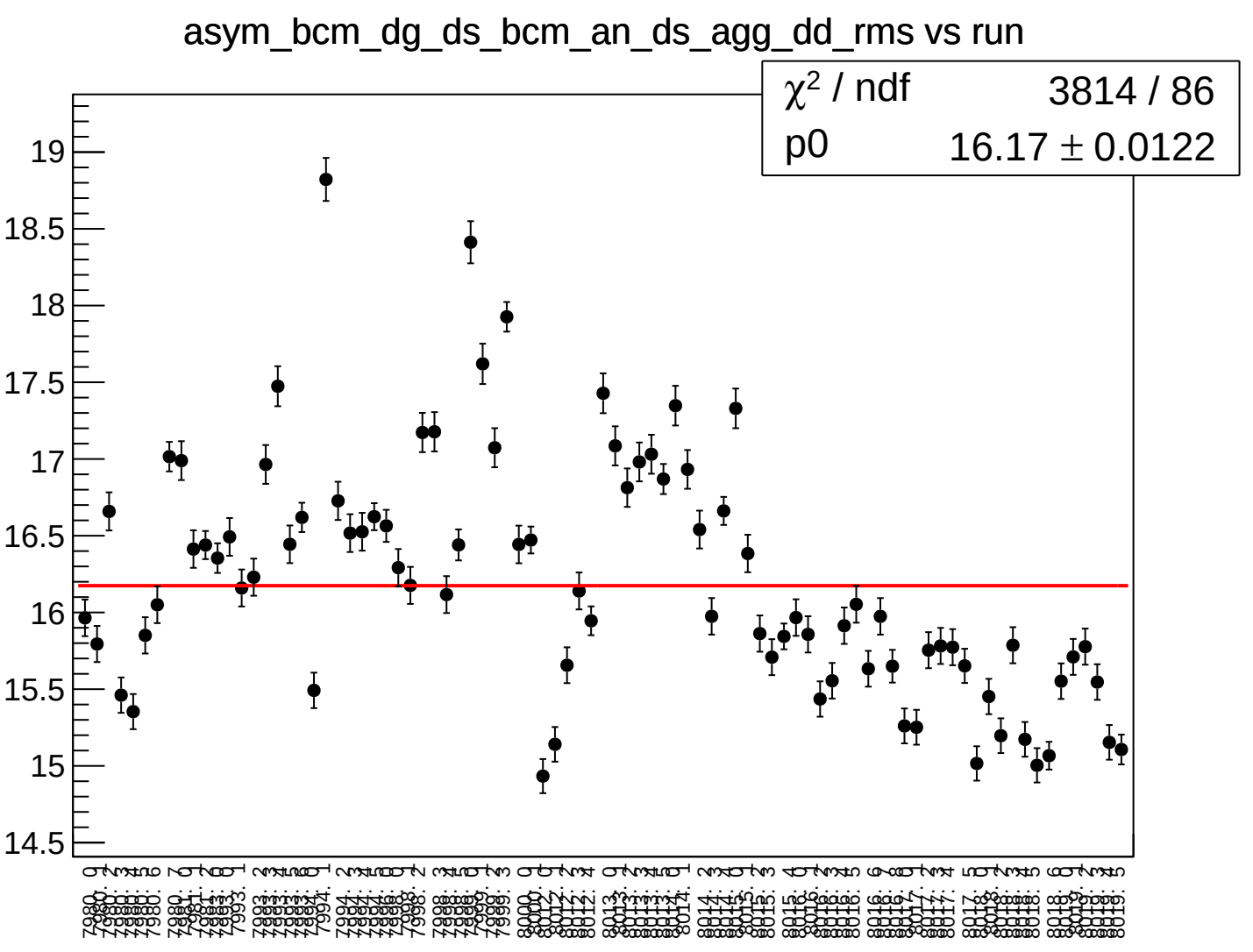

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 34.61 / 86
p0 −479.9 ± 172.5
pull
Entries 87
Mean 164.8
Std Dev 0

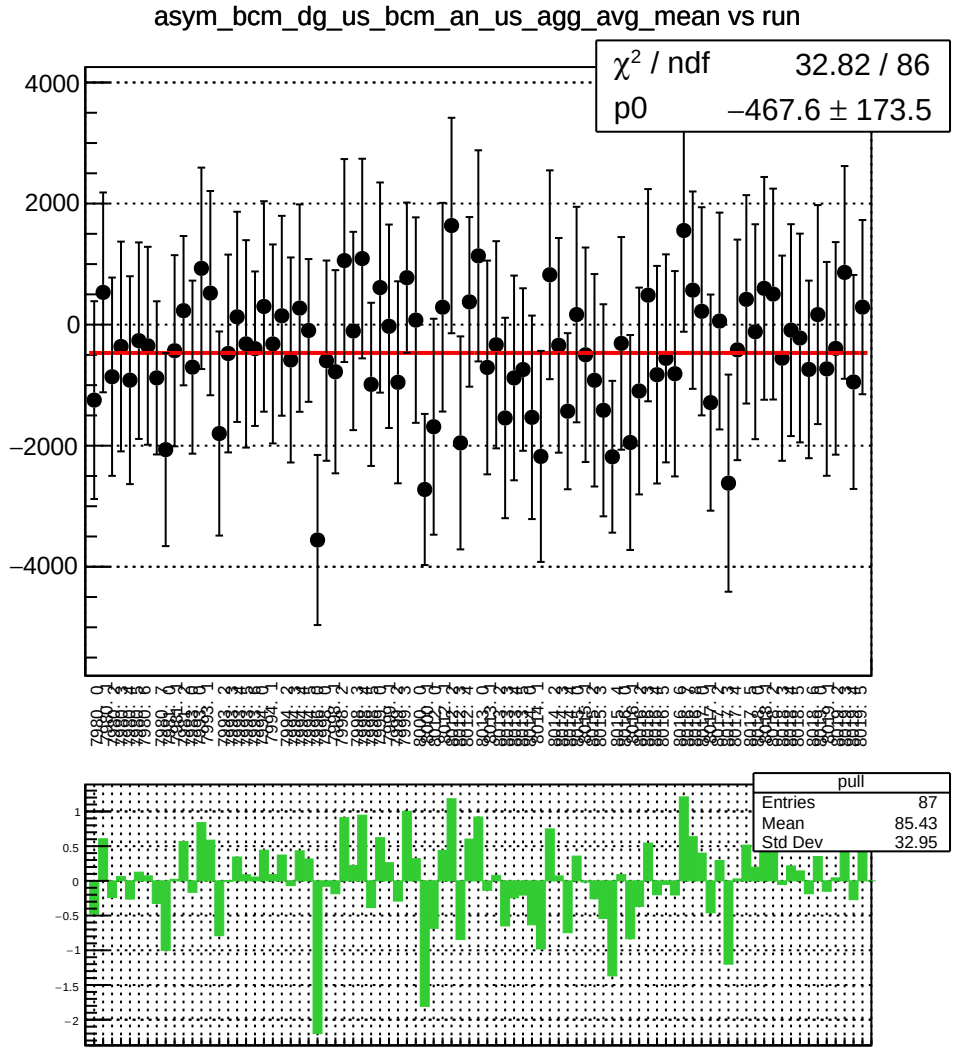

pull1D
Entries 87
Mean 0.01799
Std Dev 0.6305

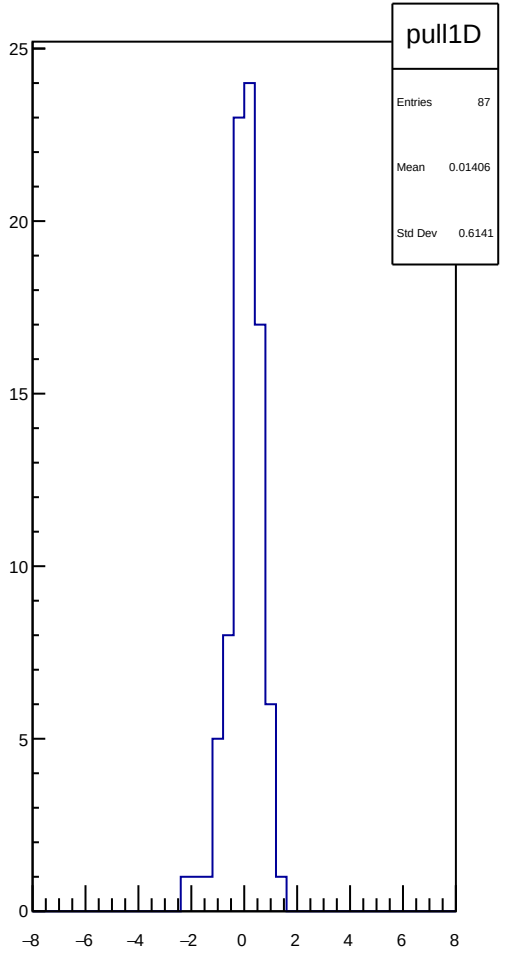

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2040 / 86
p0 161.7 ± 0.1219
175
170
165
160
155
150
145

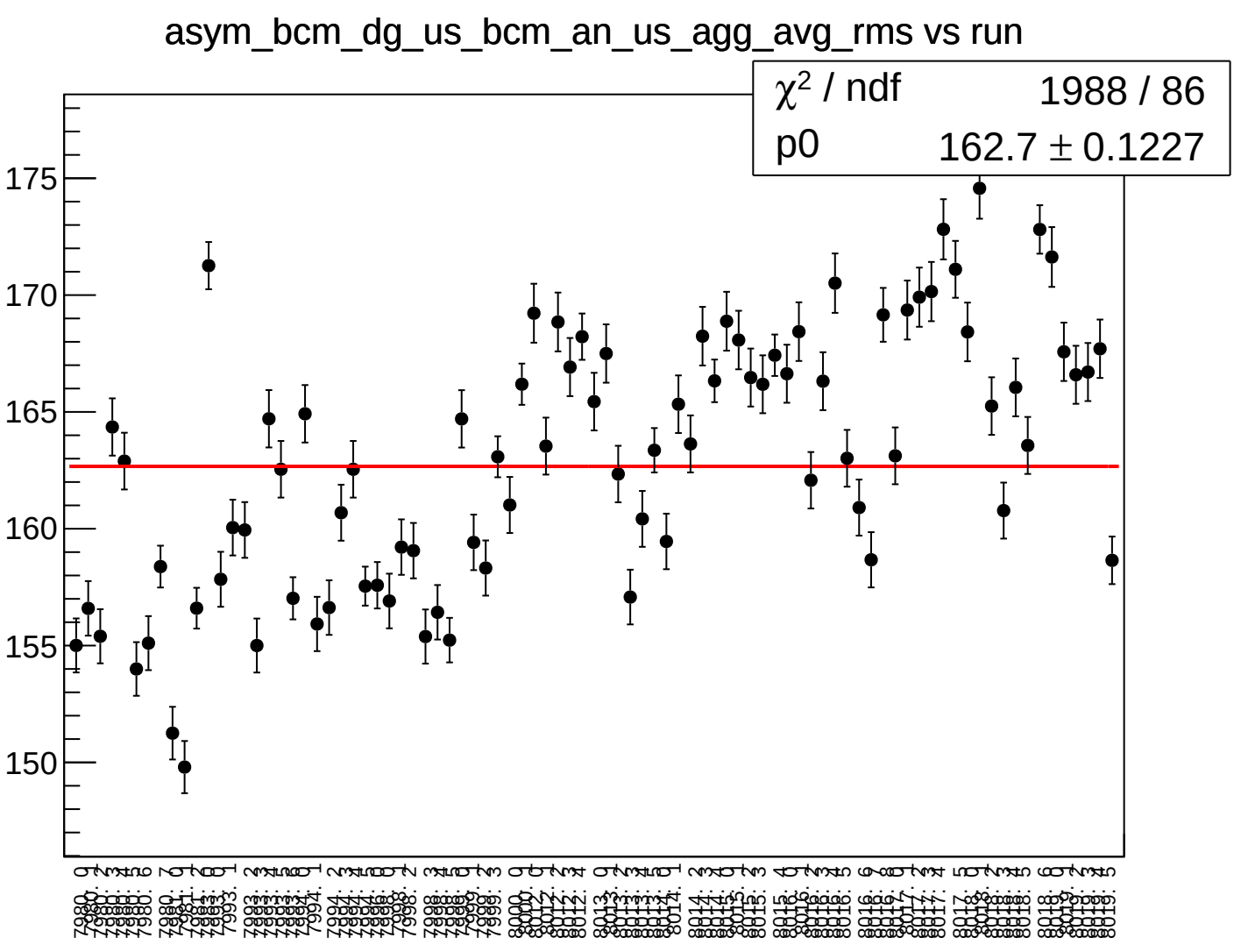

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 103.9 / 86
p0 9.513 ± 17.26
pull
Entries 87
Mean −375.3
Std Dev 0

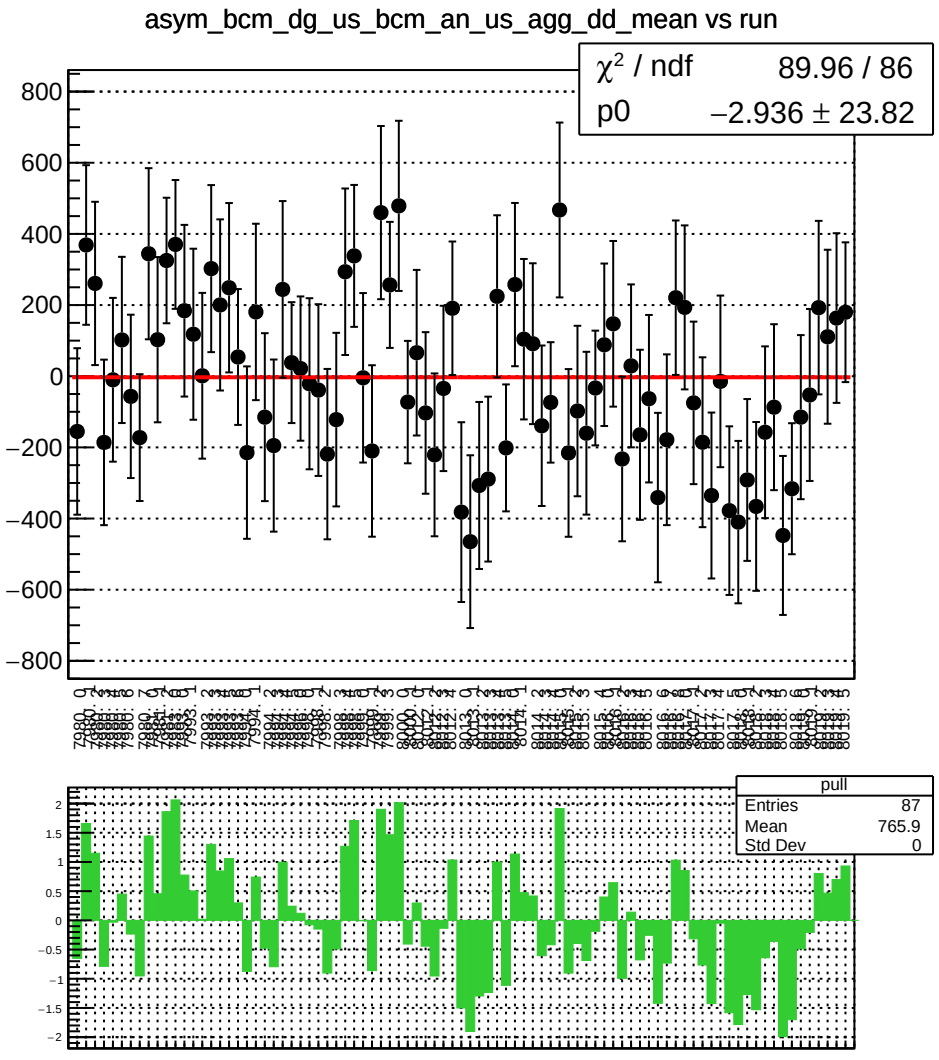

pull1D
Entries 87
Mean −0.01012
Std Dev 1.093

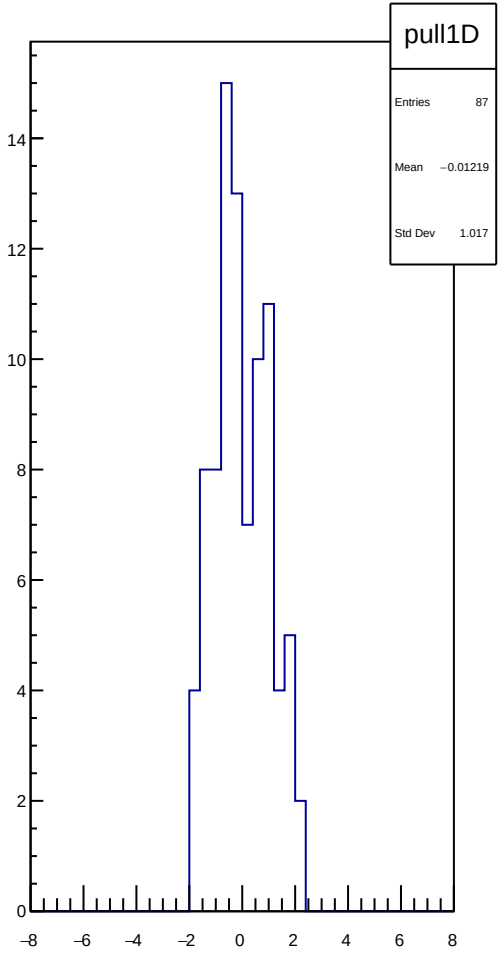

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3814 / 86
p0 16.17 ± 0.0122
19
18.5
18
17.5
17
16.5
16
15.5
15
14.5

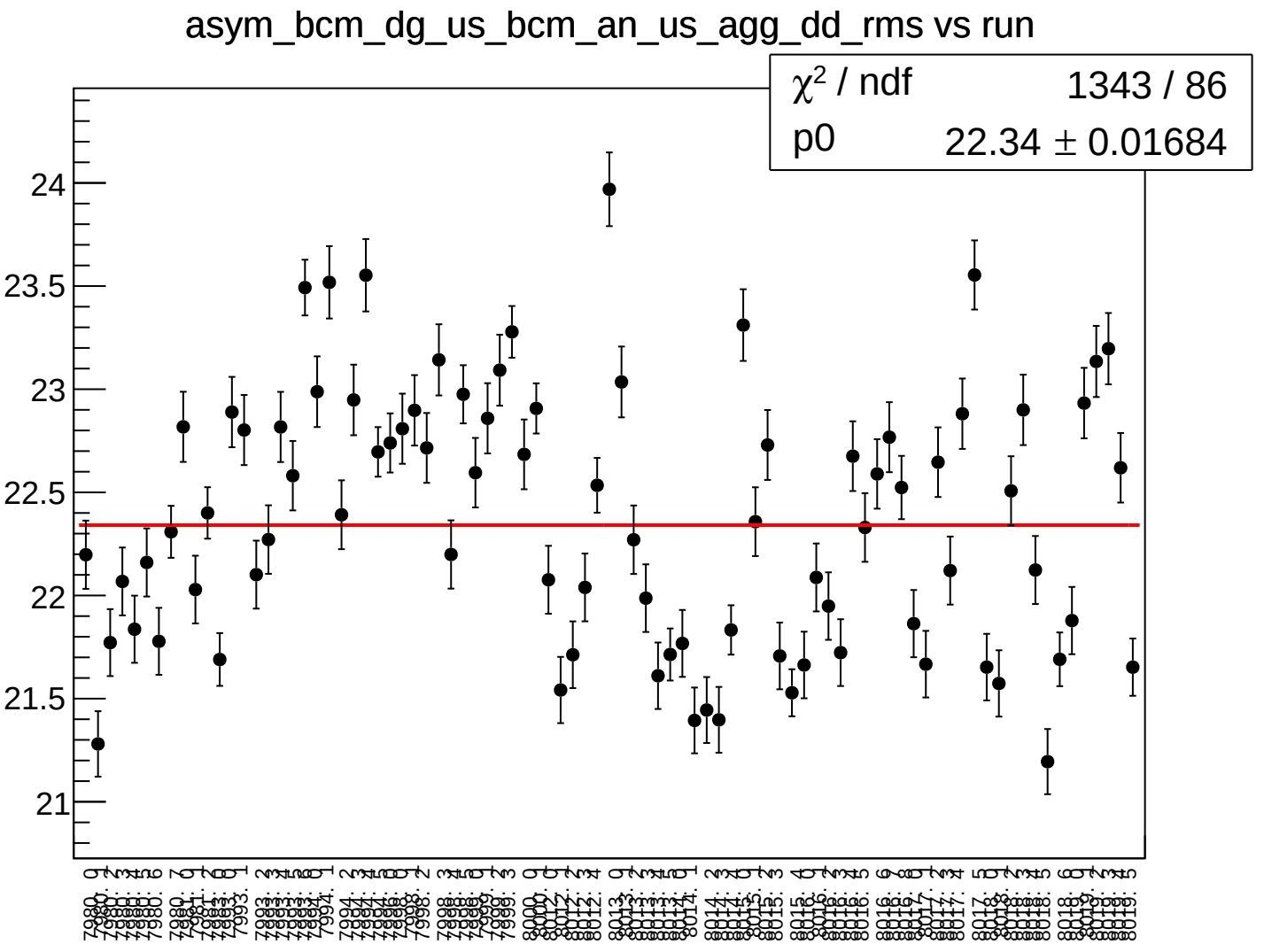

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 32.82 / 86
p0 −467.6 ± 173.5
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 85.43
Std Dev 32.95
1
0.5
0
−0.5
−1
−1.5
−2

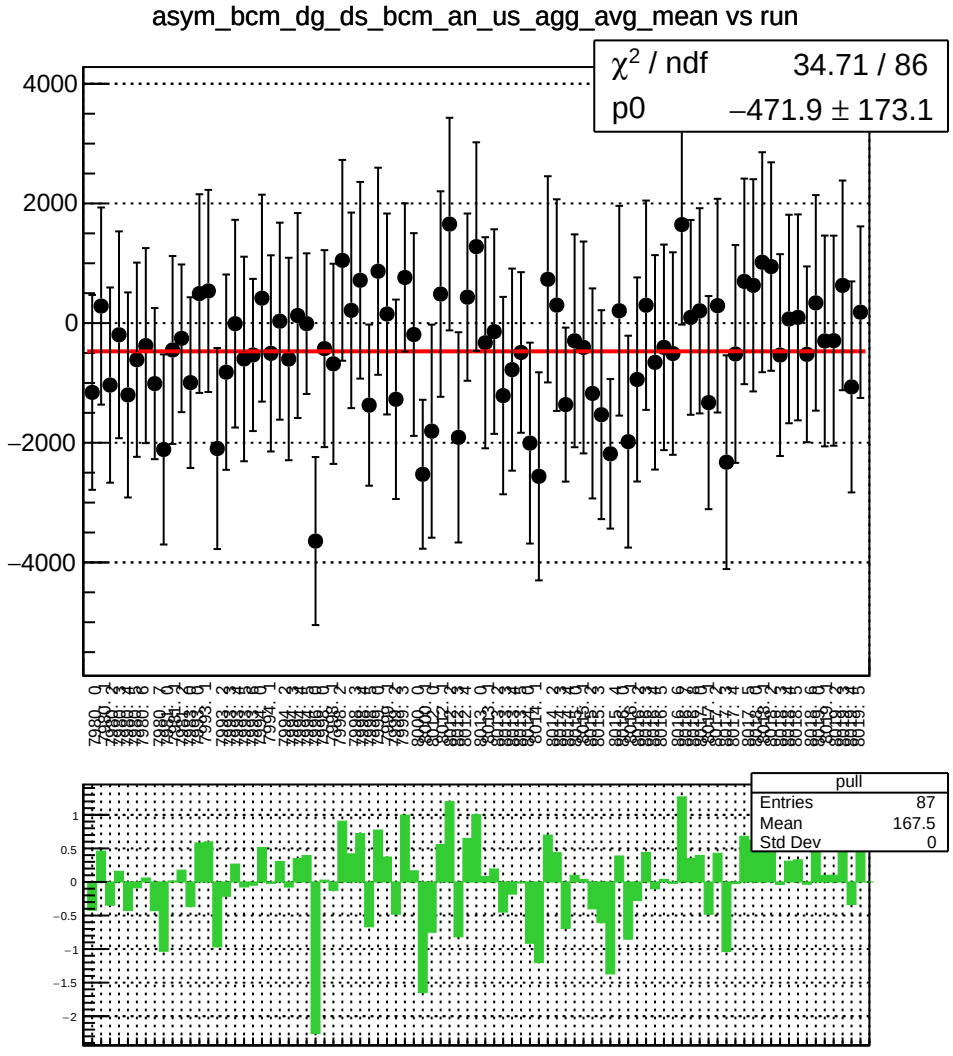

pull1D
Entries 87
Mean 0.01406
Std Dev 0.6141
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

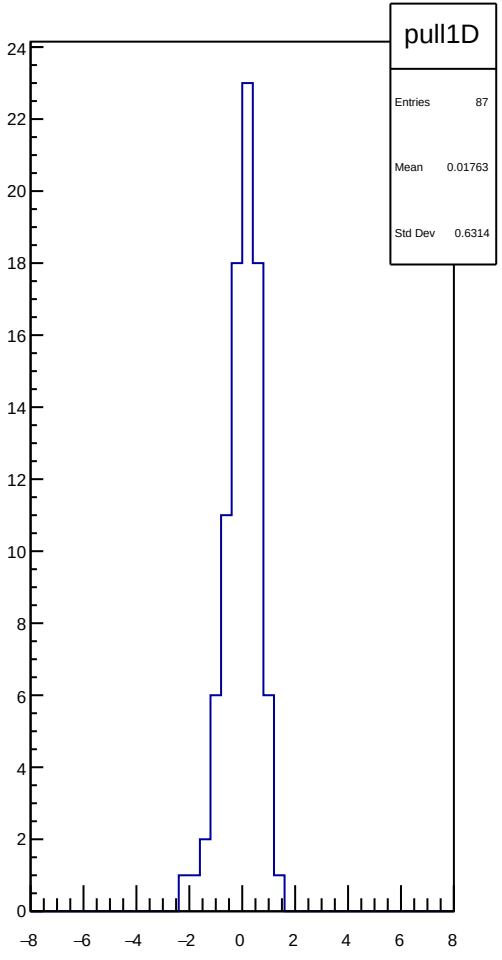

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1988 / 86
p0 162.7 ± 0.1227
175
170
165
160
155
150

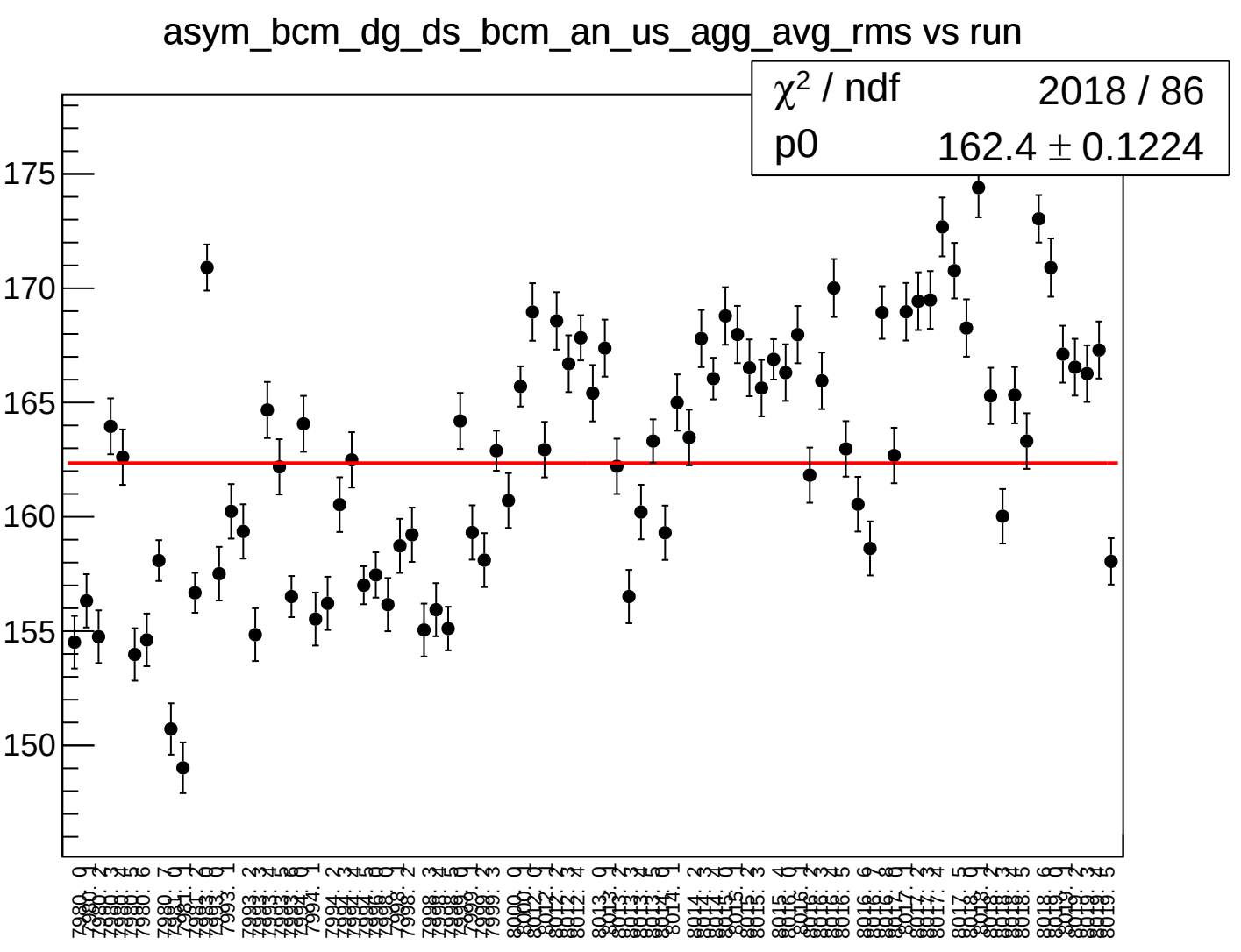

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 89.96 / 86
p0 −2.936 ± 23.82
pull
Entries 87
Mean 765.9
Std Dev 0

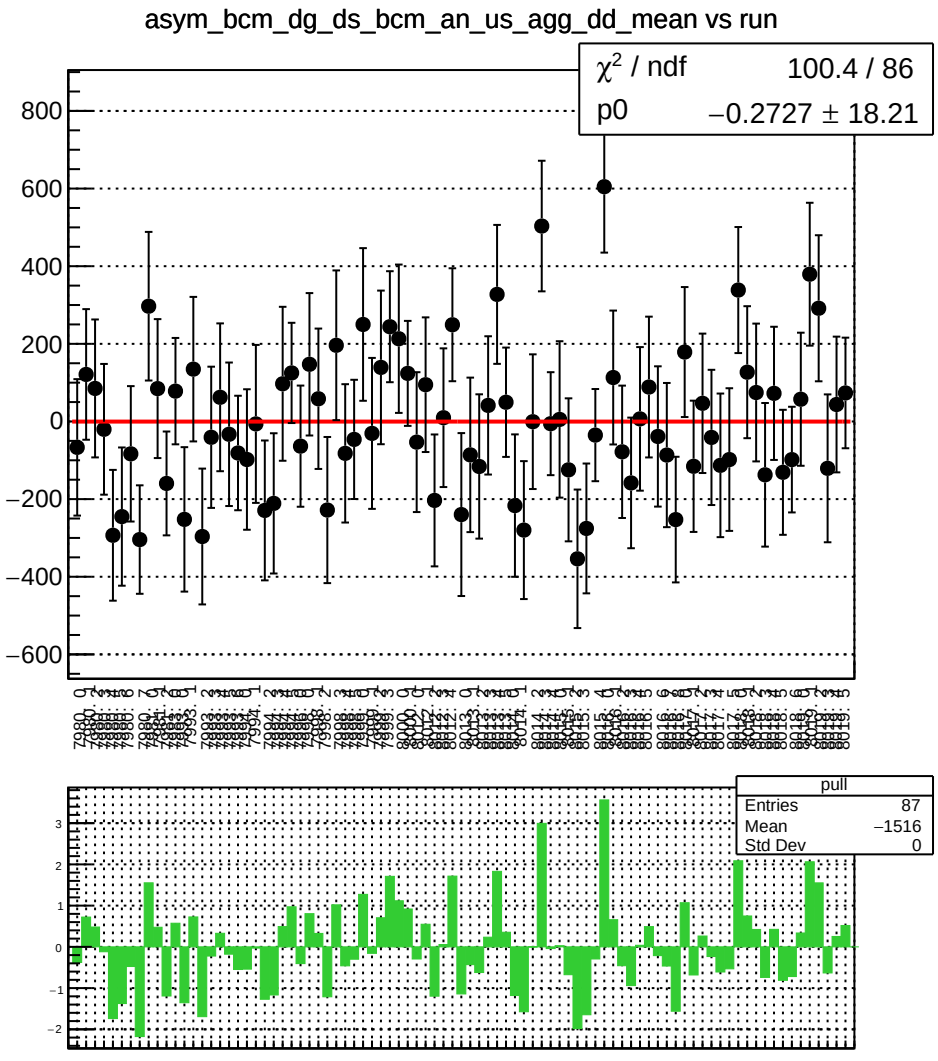

pull1D
Entries 87
Mean −0.01219
Std Dev 1.017

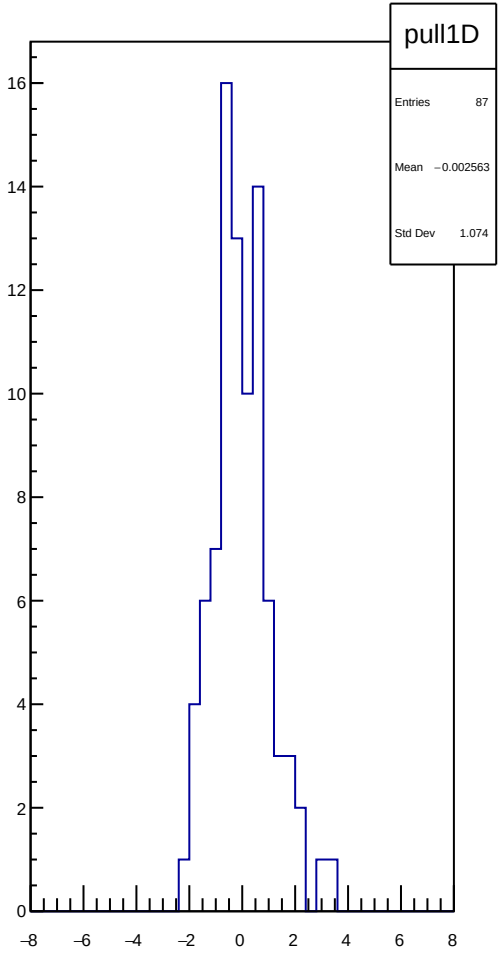

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1343 / 86
p0 22.34 ± 0.01684
24
23.5
23
22.5
22
21.5
21

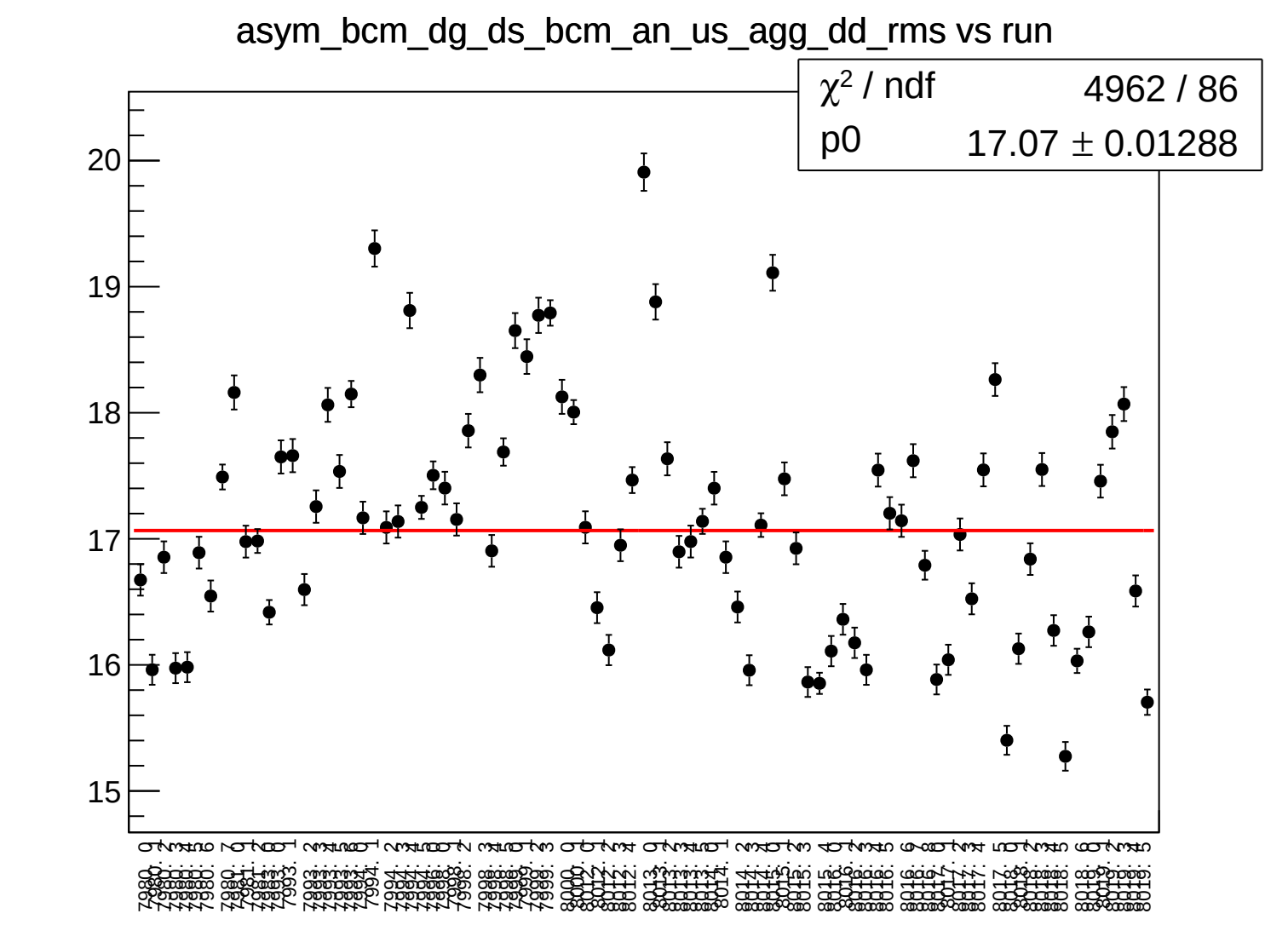

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 34.71 / 86
p0 −471.9 ± 173.1
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 167.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

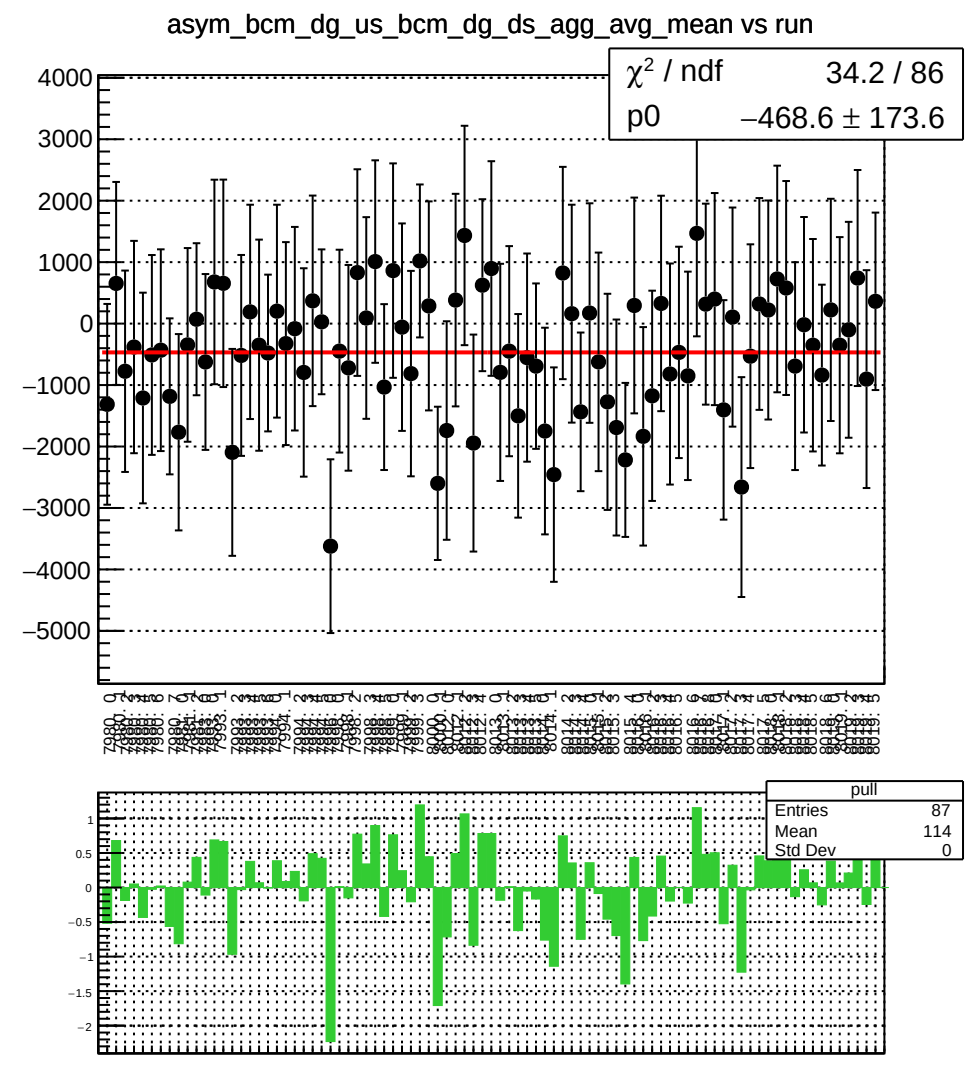

pull1D
Entries 87
Mean 0.01763
Std Dev 0.6314
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

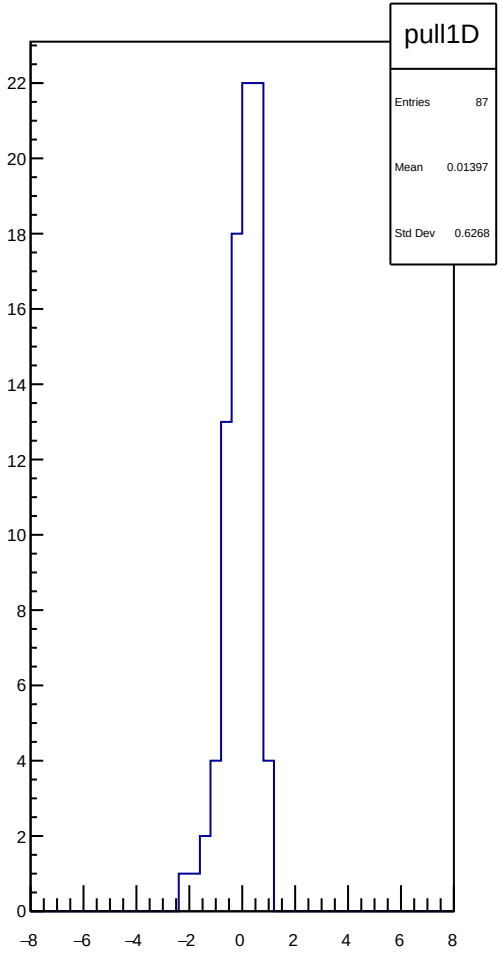

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2018 / 86
p0 162.4 ± 0.1224
175
170
165
160
155
150

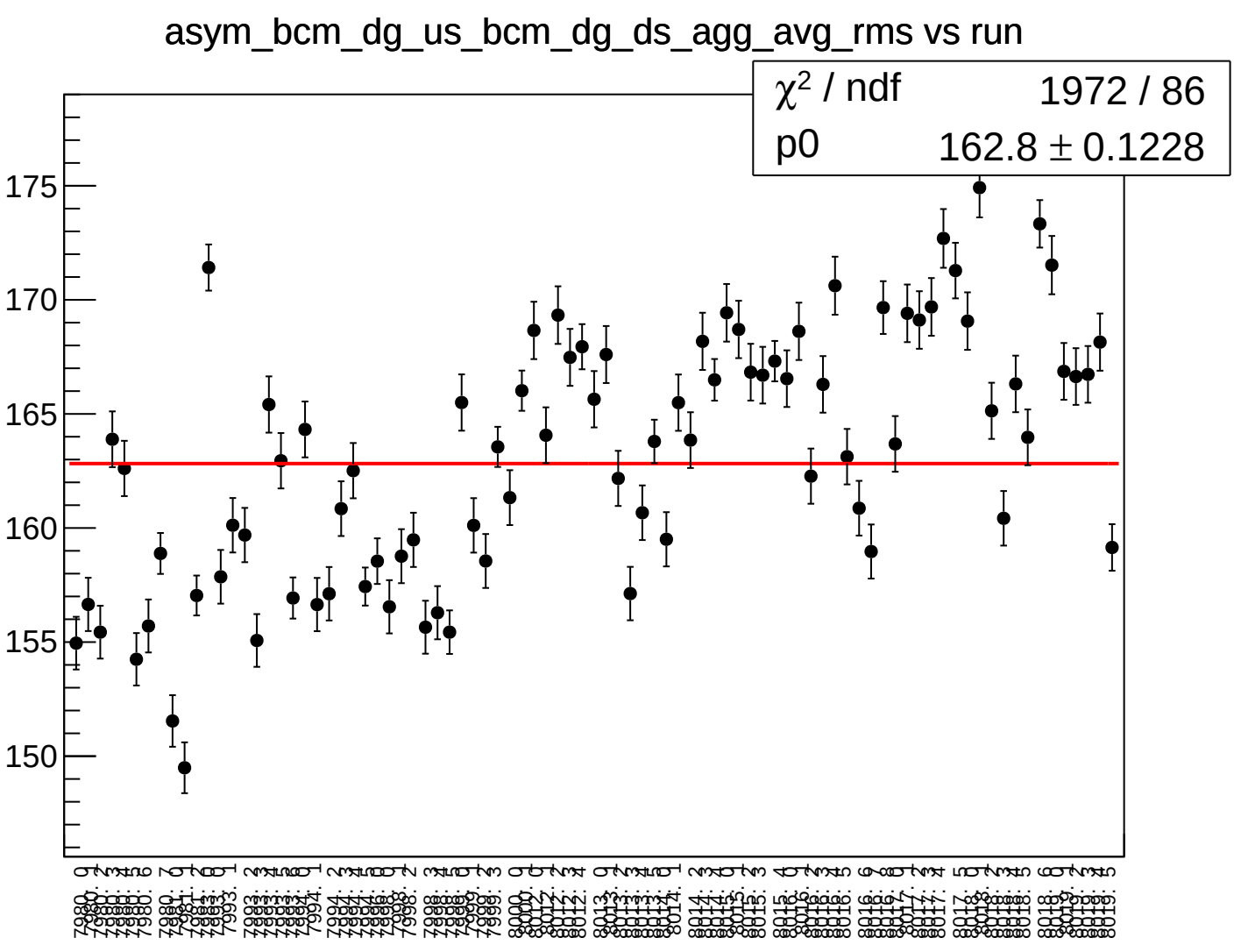

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 100.4 / 86
p0 −0.2727 ± 18.21
pull
Entries 87
Mean −1516
Std Dev 0

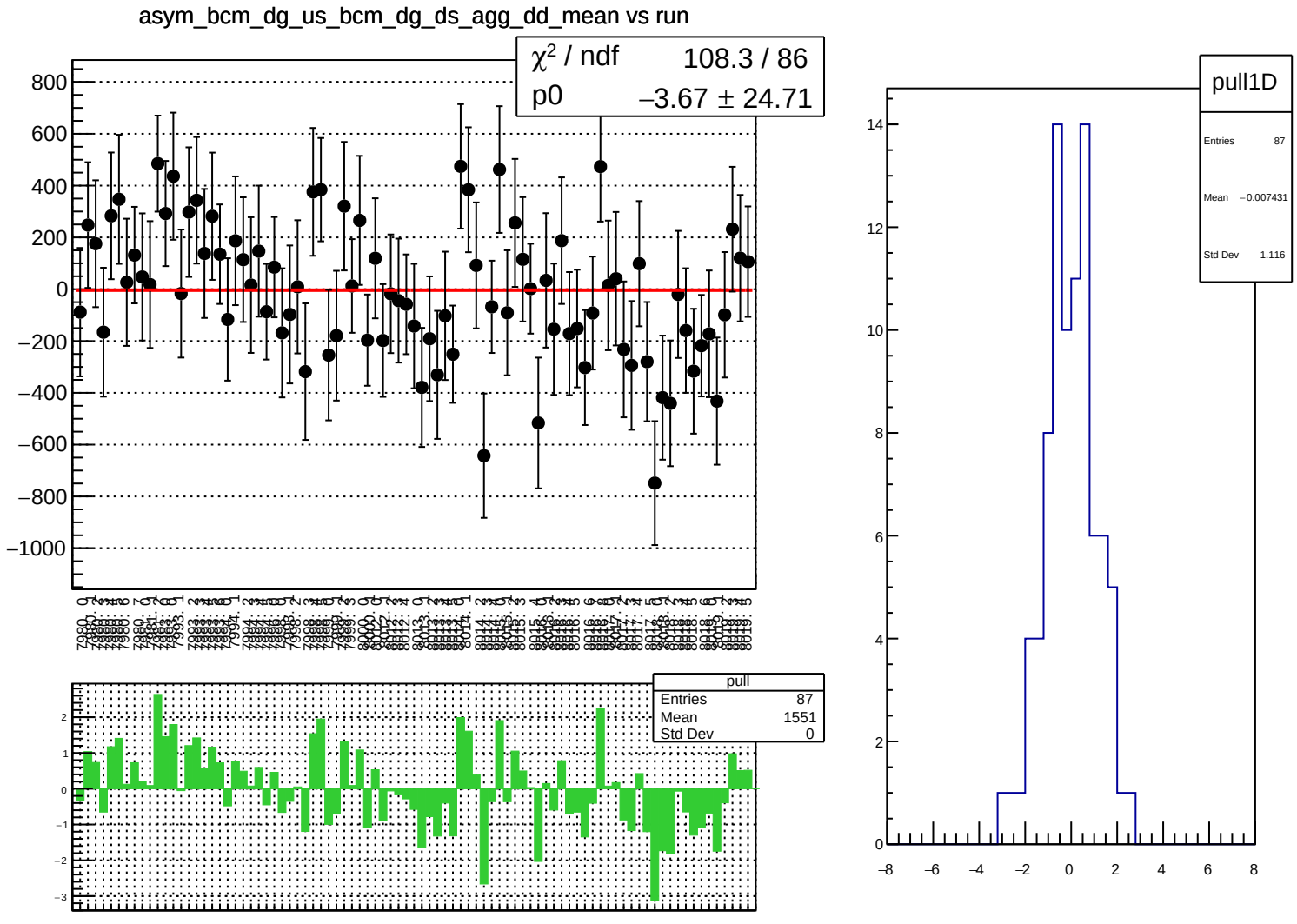

pull1D
Entries 87
Mean −0.002563
Std Dev 1.074

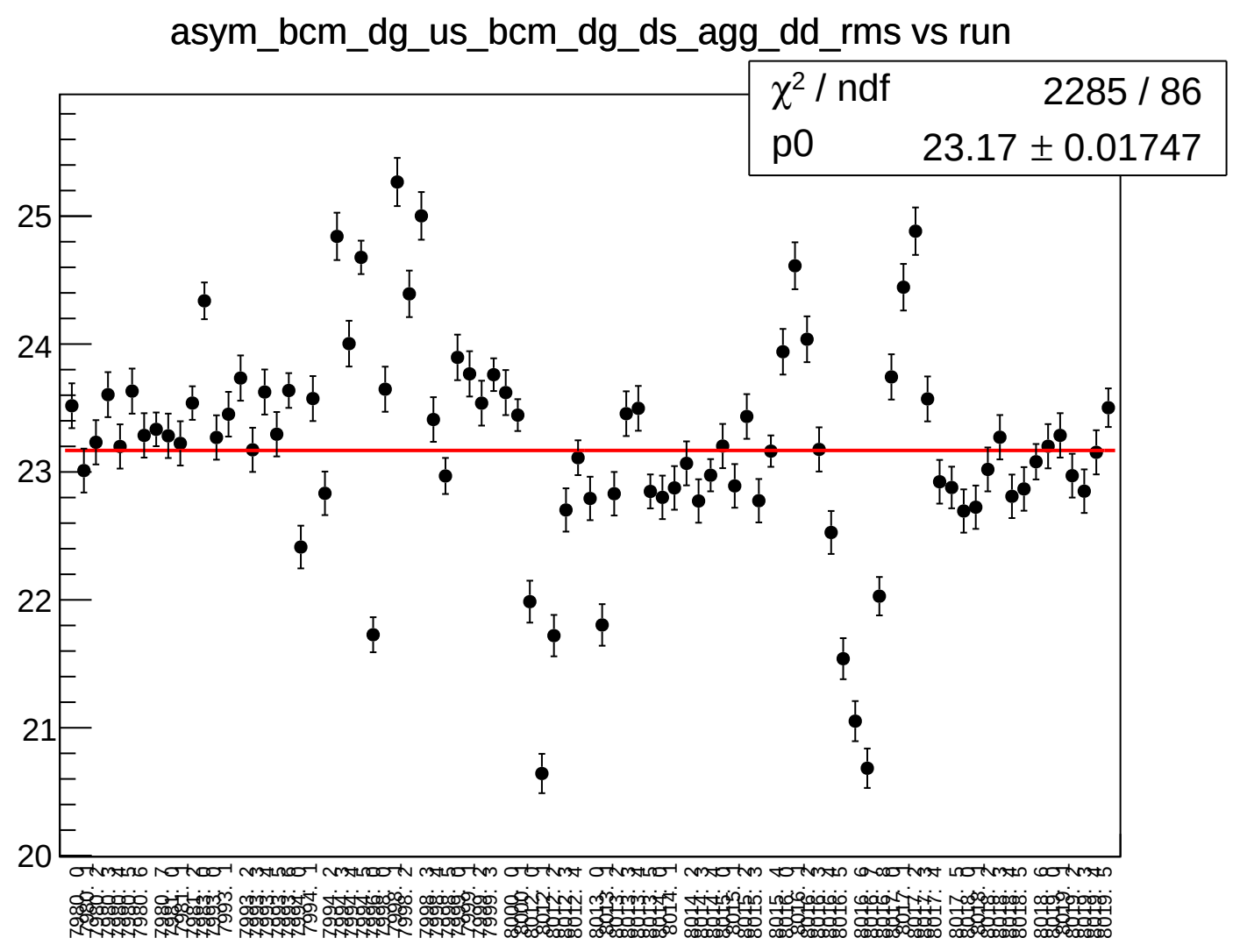

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4962 / 86
p0 17.07 ± 0.01288
20
19
18
17
16
15

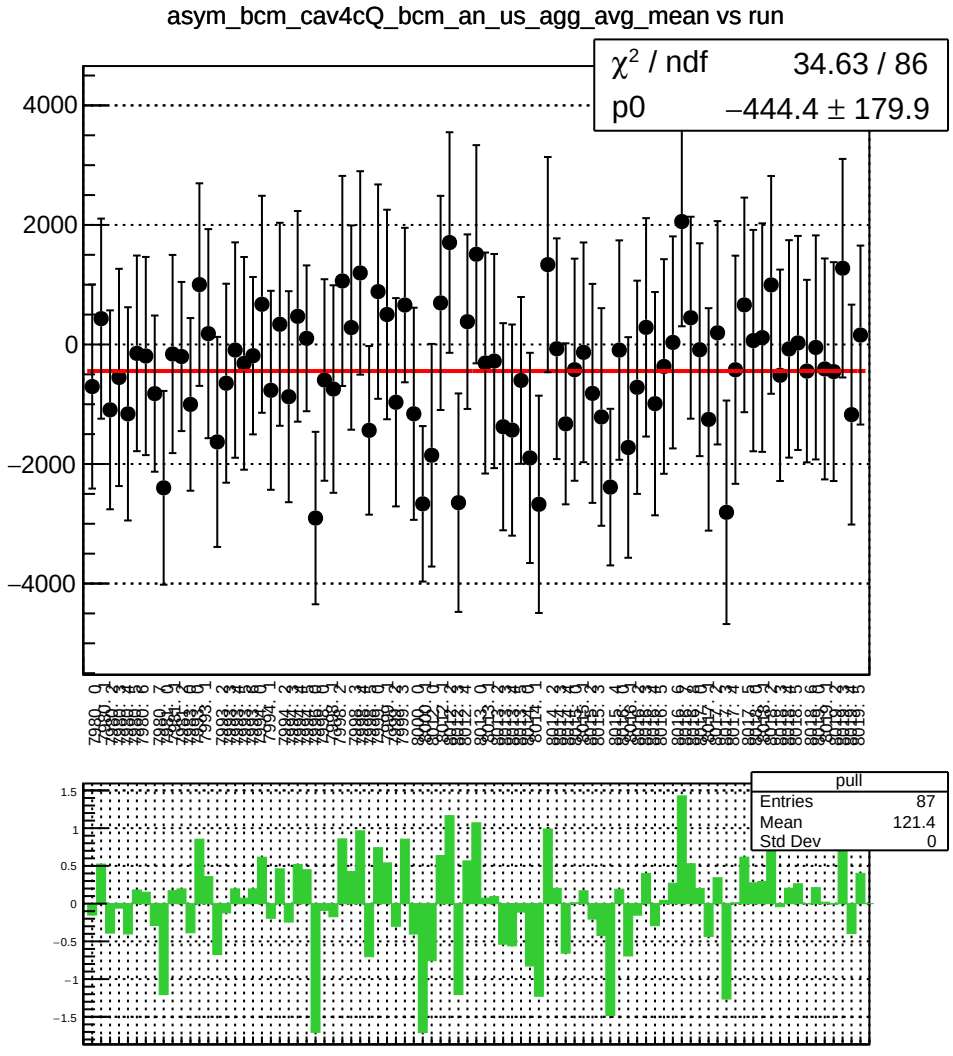

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 34.2 / 86
p0 −468.6 ± 173.6
pull
Entries 87
Mean 114
Std Dev 0

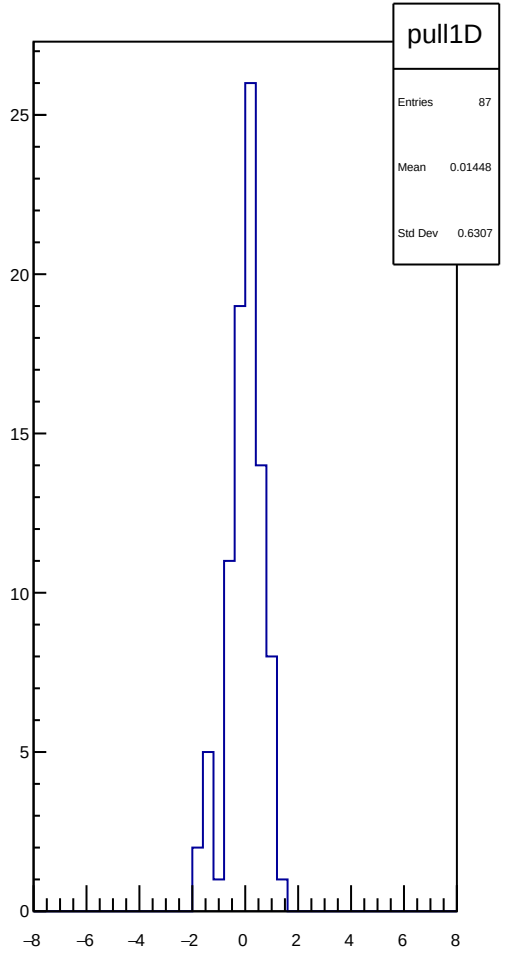

pull1D
Entries 87
Mean 0.01397
Std Dev 0.6268

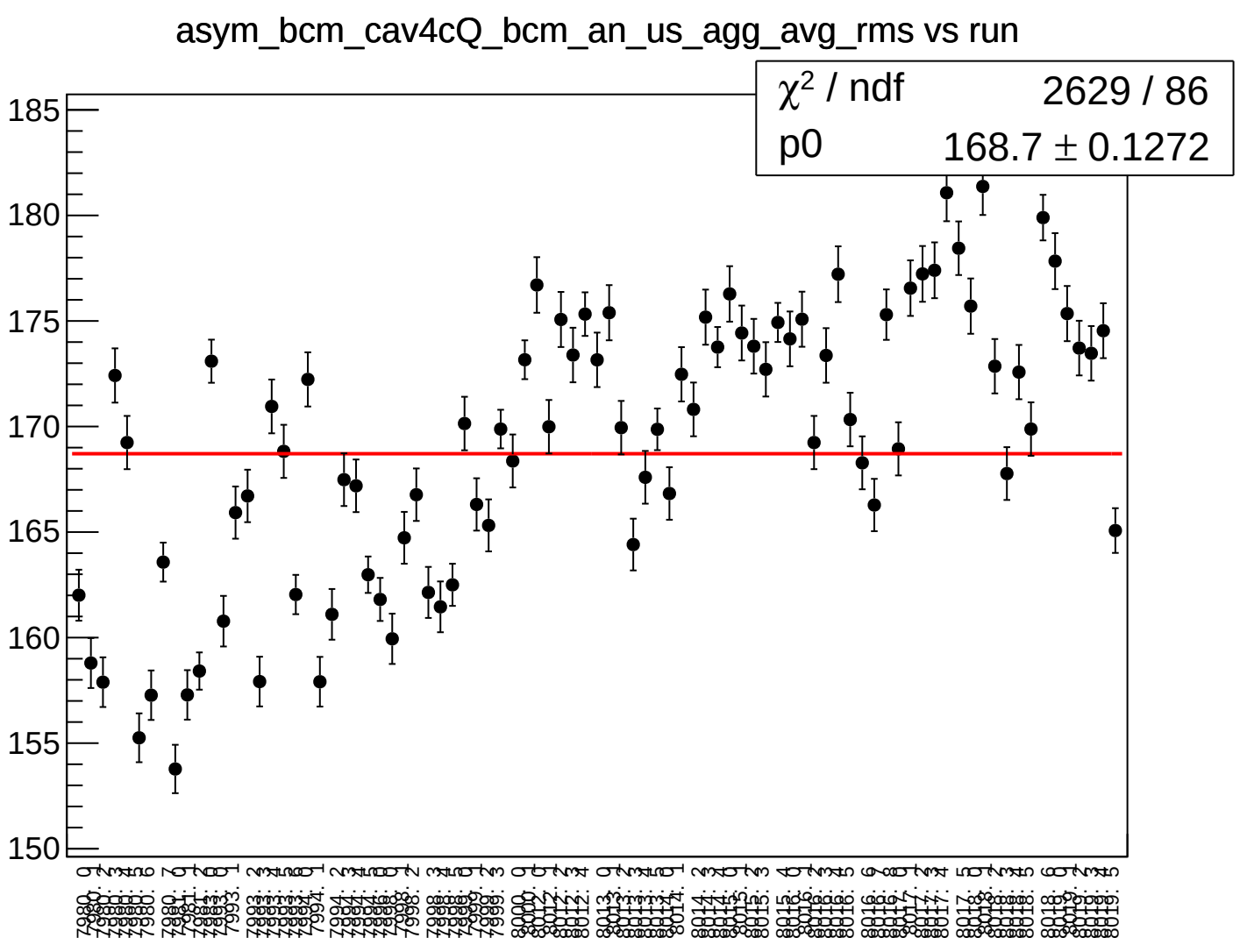

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1972 / 86
p0 162.8 ± 0.1228
175
170
165
160
155
150

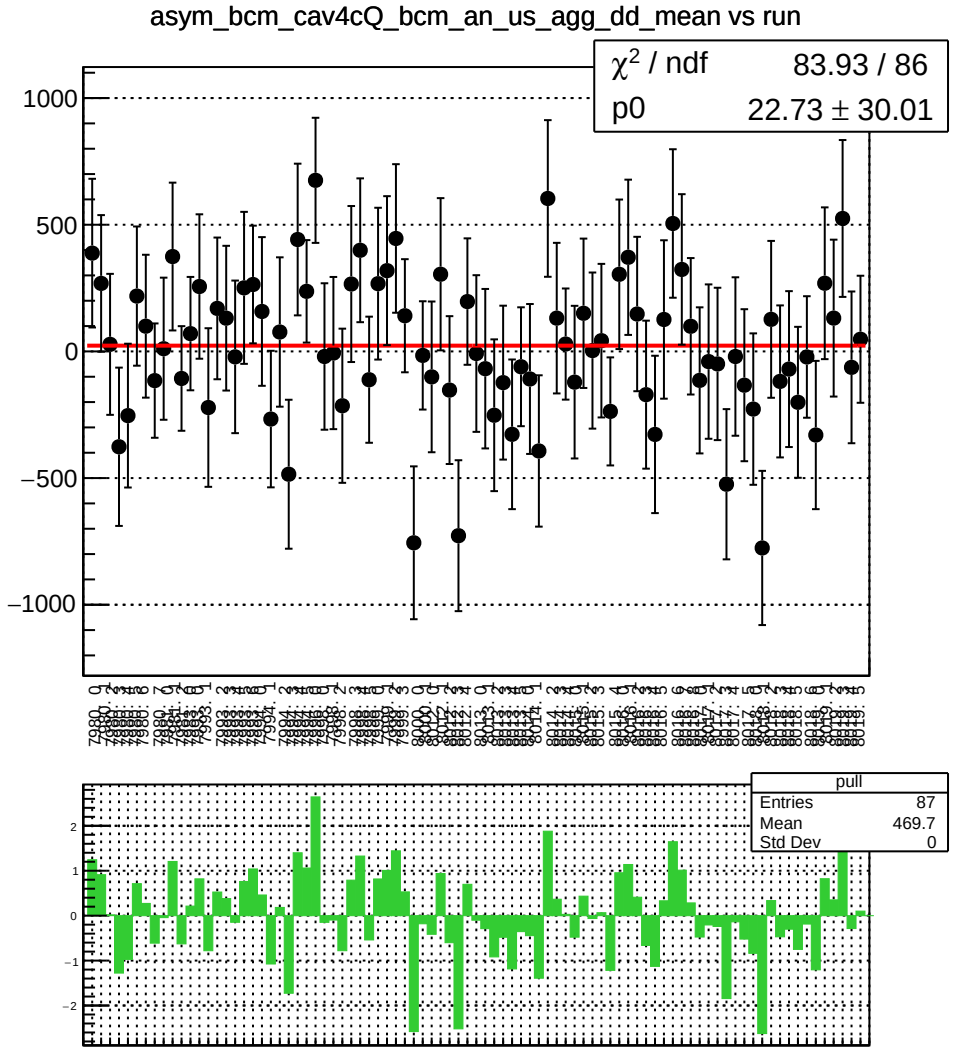

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 108.3 / 86
p0 −3.67 ± 24.71
pull
Entries 87
Mean 1551
Std Dev 0
pull1D
Entries 87
Mean −0.007431
Std Dev 1.116

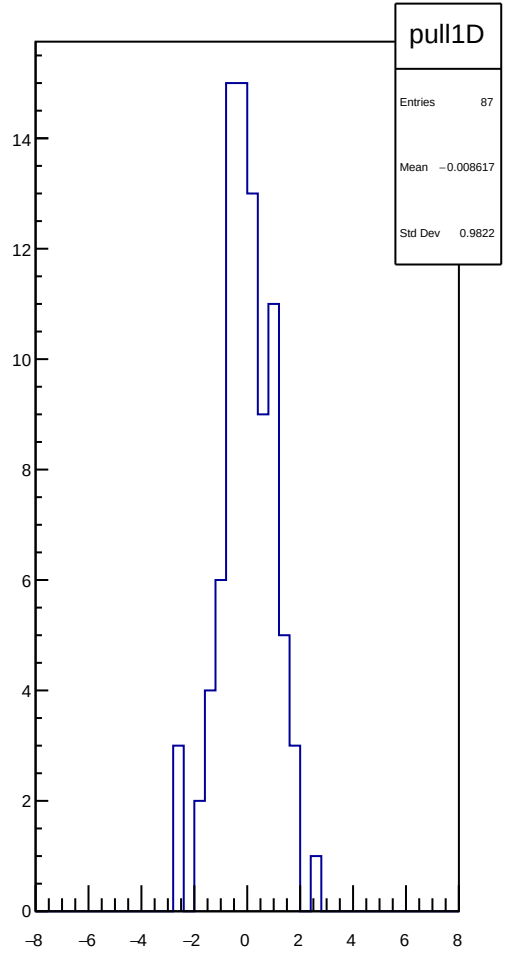

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2285 / 86
p0 23.17 ± 0.01747
25
24
23
22
21
20

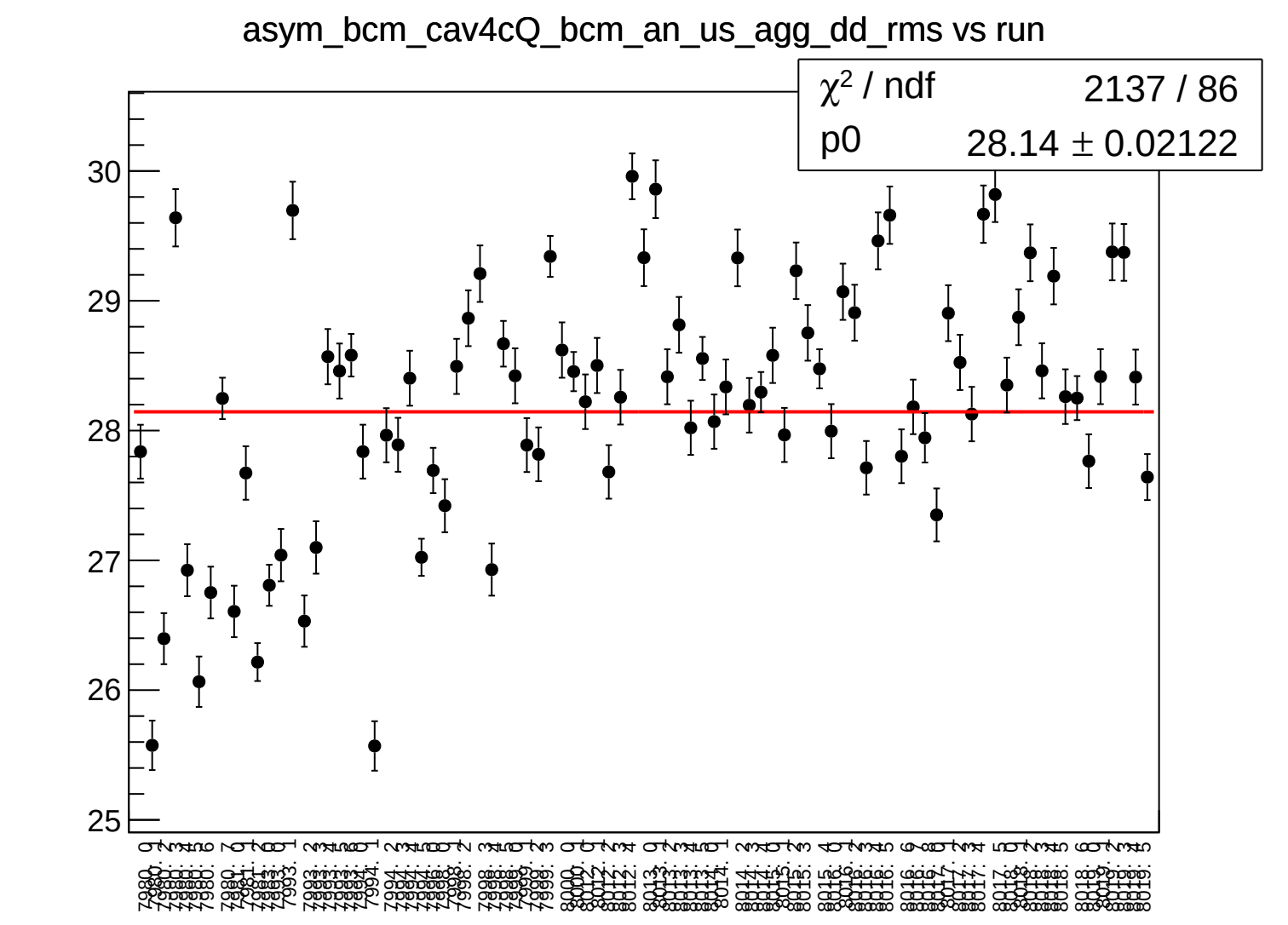

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 34.63 / 86
p0 −444.4 ± 179.9
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 121.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

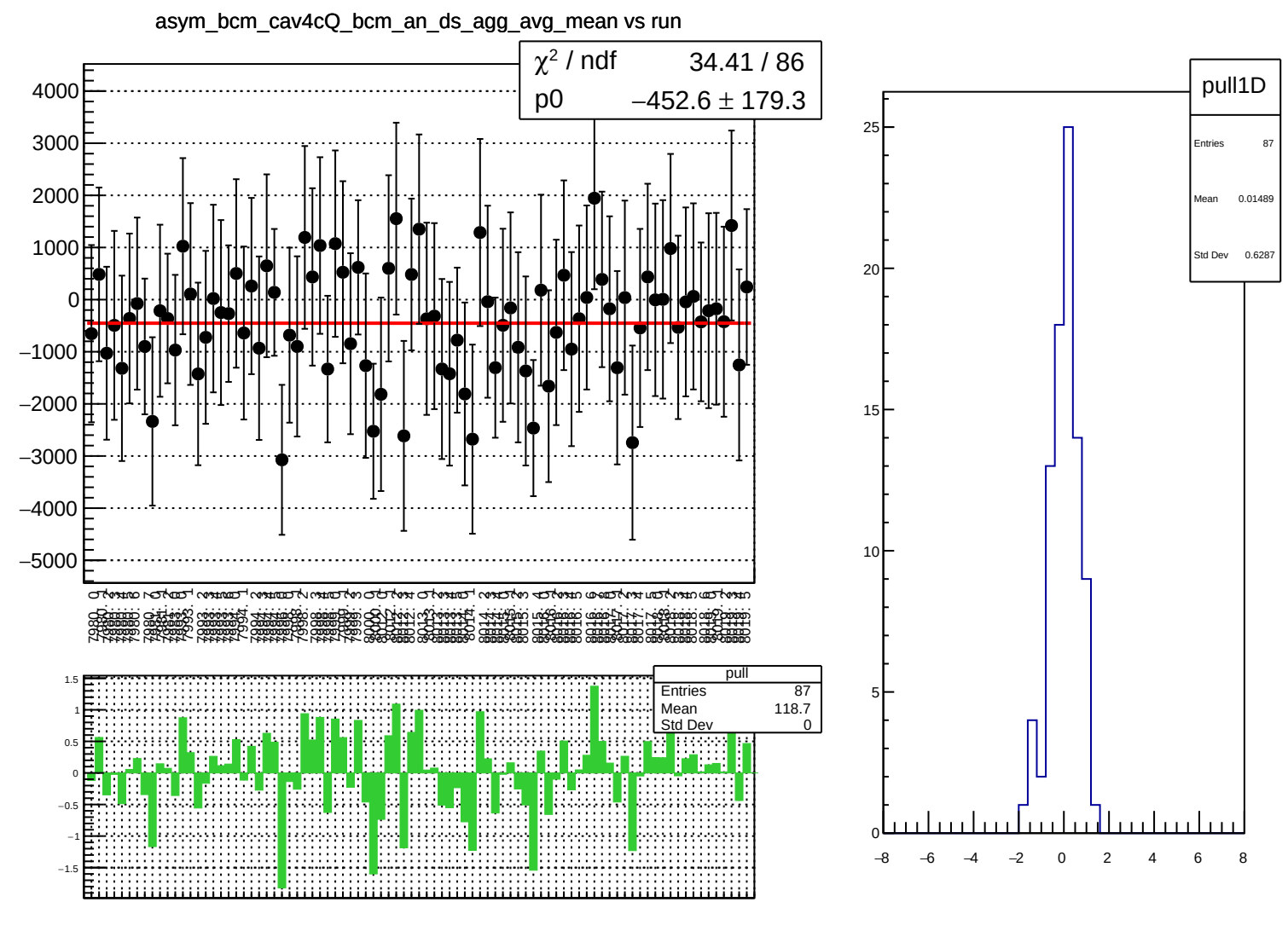

pull1D
Entries 87
Mean 0.01448
Std Dev 0.6307
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

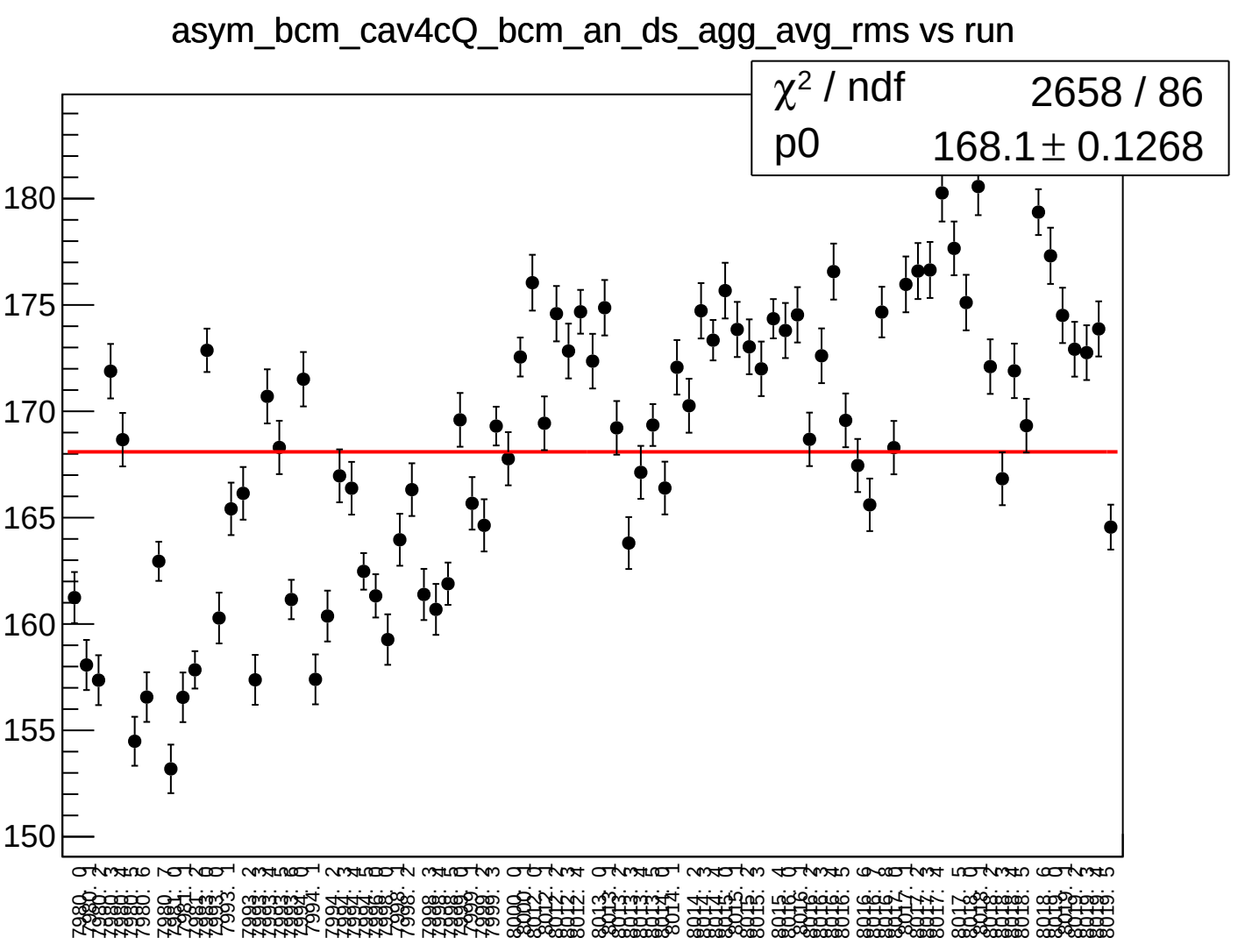

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2629 / 86
p0 168.7 ± 0.1272
185
180
175
170
165
160
155
150

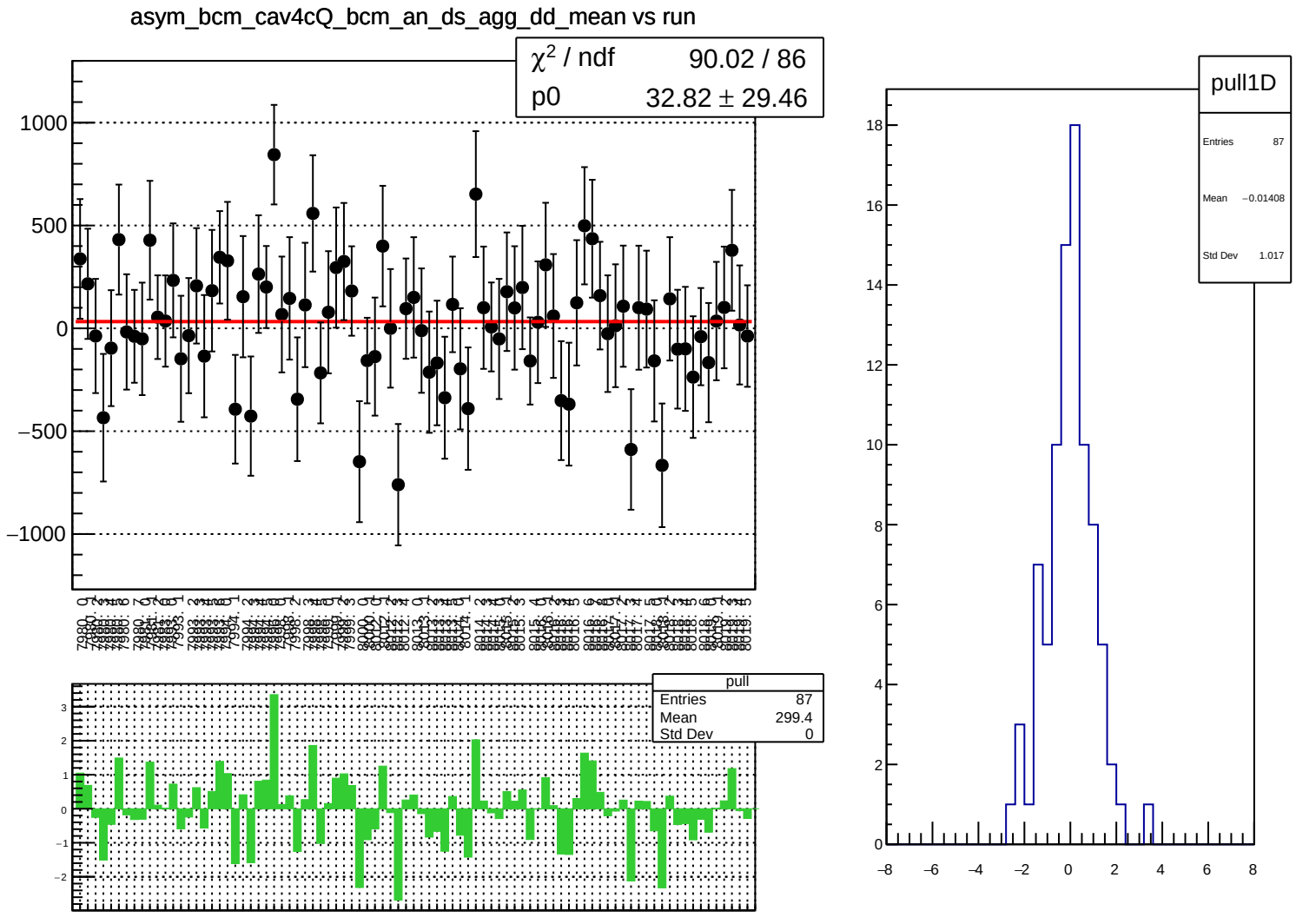

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 83.93 / 86
p0 22.73 ± 30.01
1000
500
0
−500
−1000
pull
Entries 87
Mean 469.7
Std Dev 0
2
1
0
−1
−2

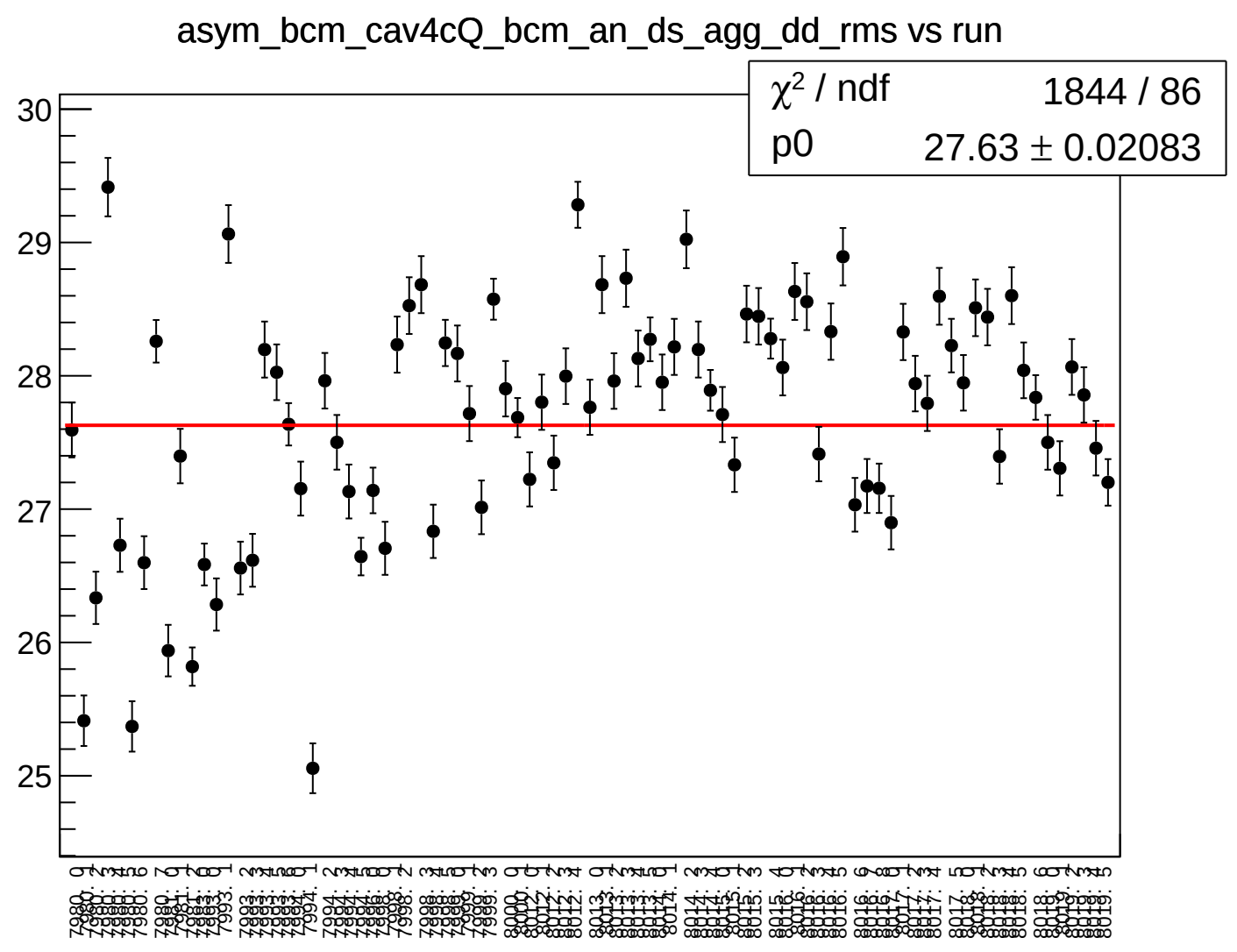

pull1D
Entries 87
Mean −0.008617
Std Dev 0.9822
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

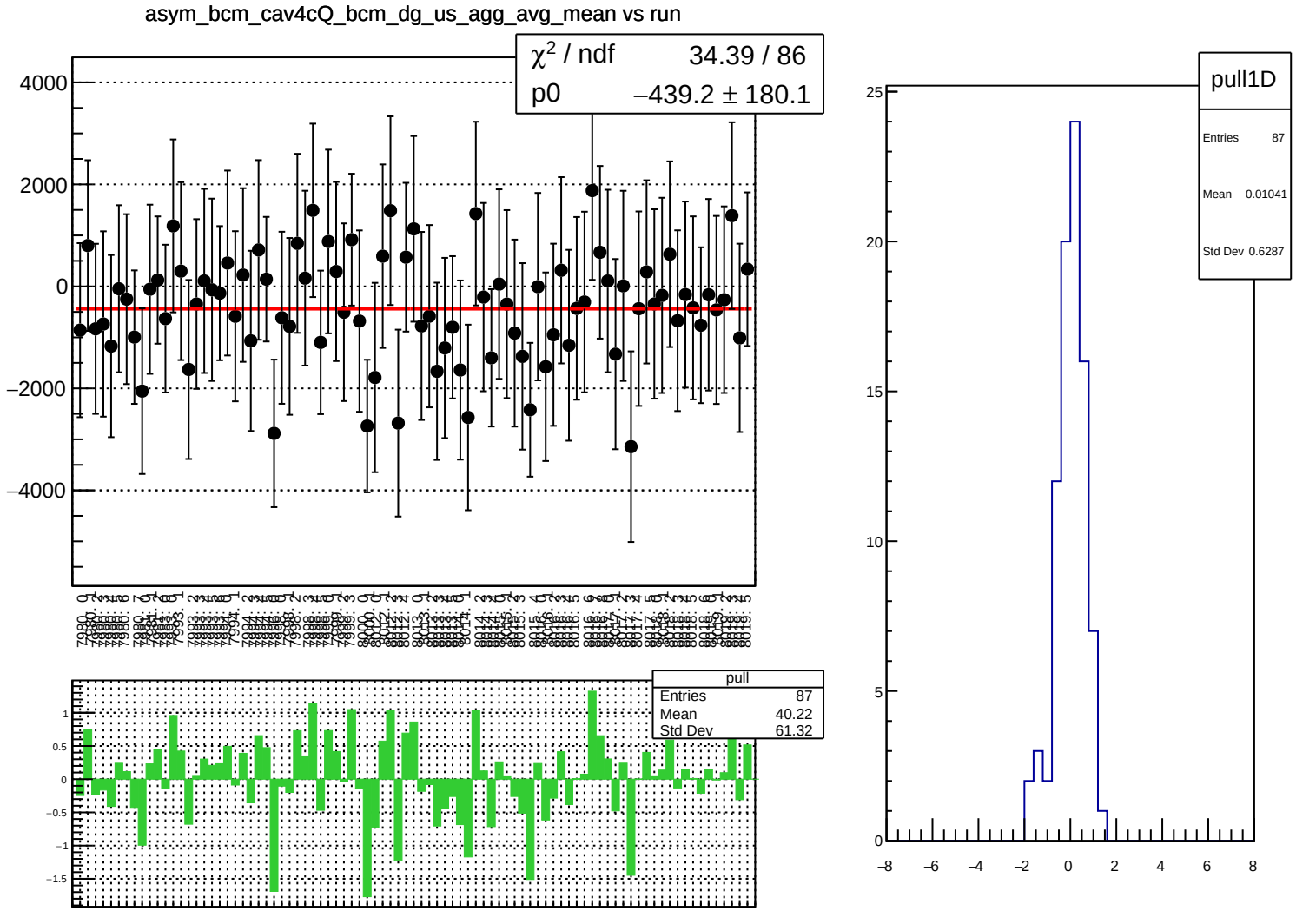

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2137 / 86
p0 28.14 ± 0.02122
30
29
28
27
26
25

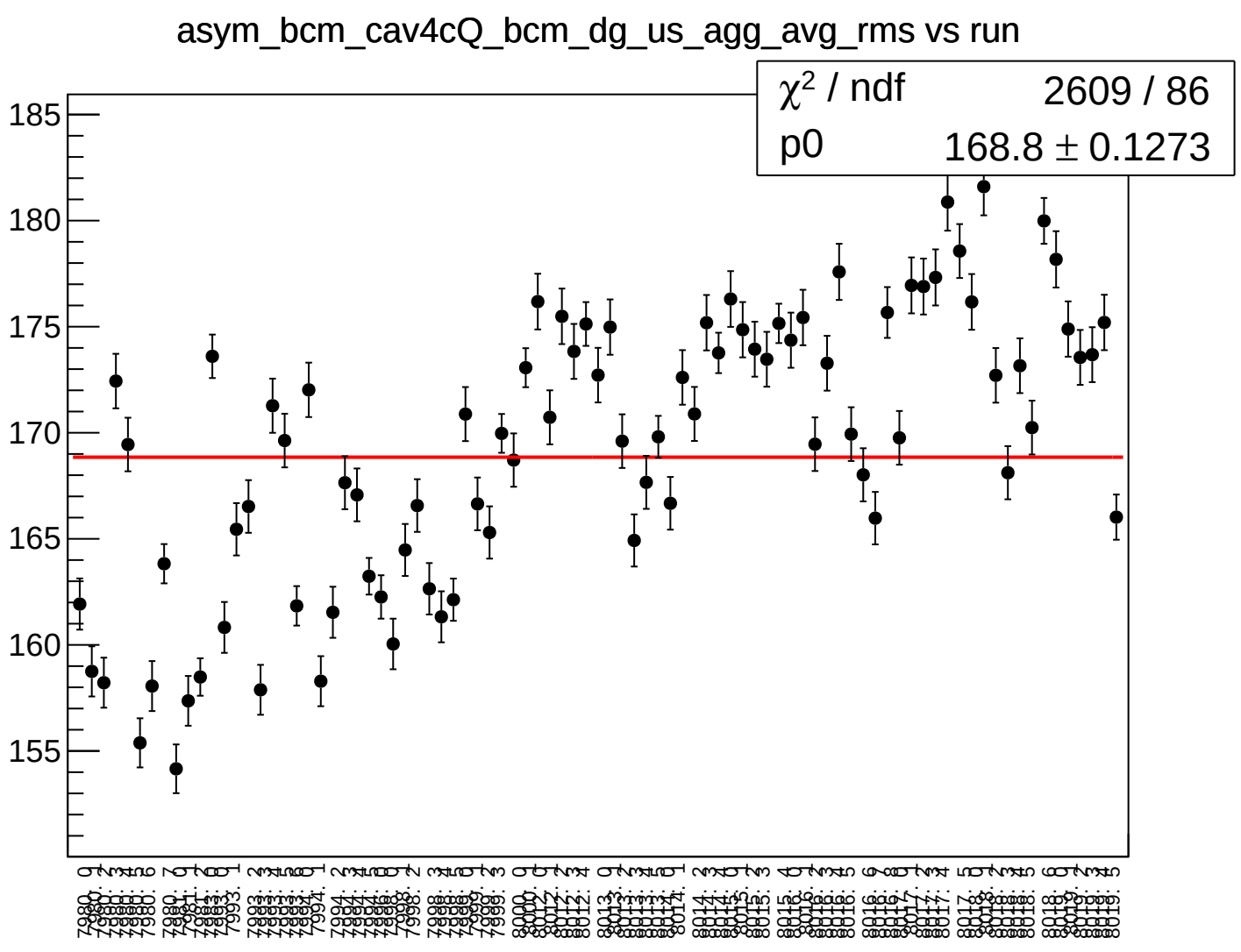

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 34.41 / 86
p0 −452.6 ± 179.3
pull
Entries 87
Mean 118.7
Std Dev 0
pull1D
Entries 87
Mean 0.01489
Std Dev 0.6287

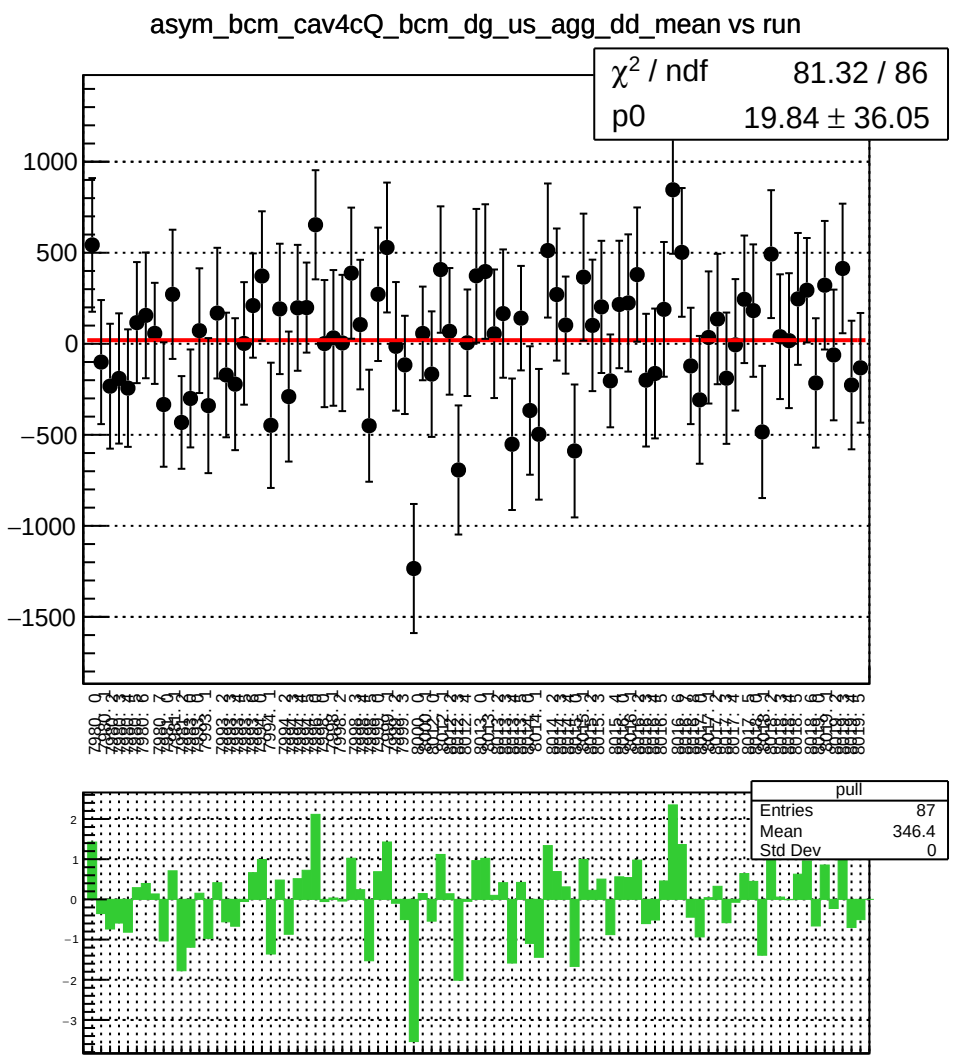

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2658 / 86
p0 168.1 ± 0.1268
180
175
170
165
160
155
150

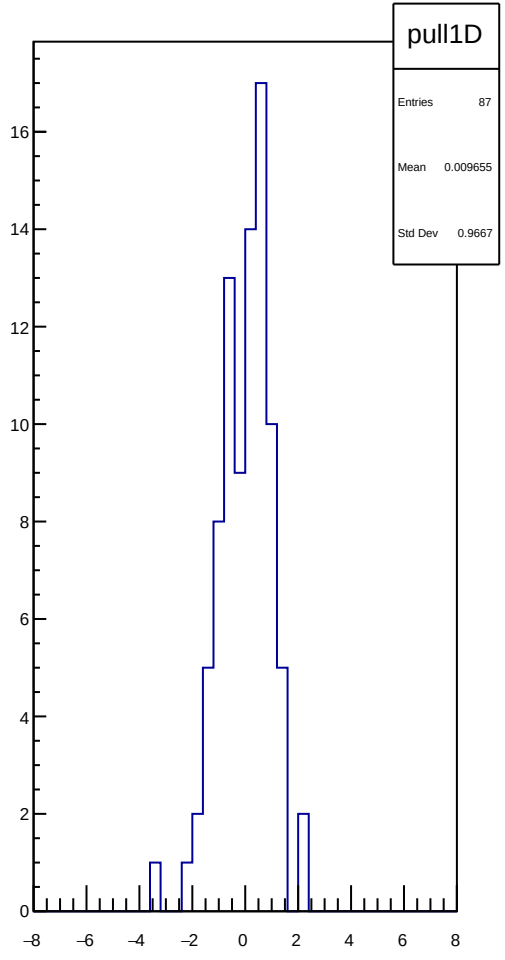

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 90.02 / 86
p0 32.82 ± 29.46
1000
500
0
−500
−1000
pull
Entries 87
Mean 299.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01408
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

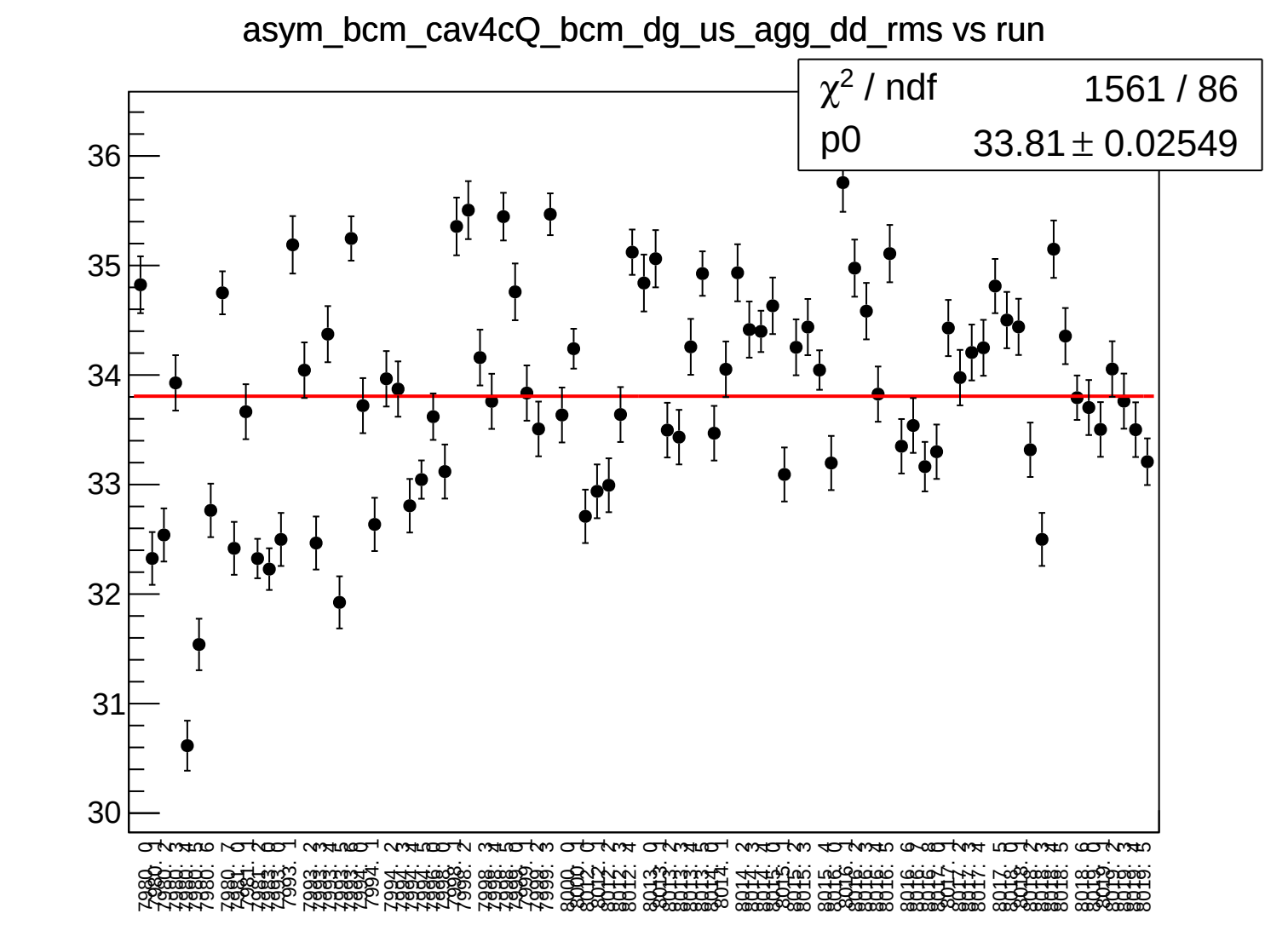

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1844 / 86
p0 27.63 ± 0.02083
30
29
28
27
26
25

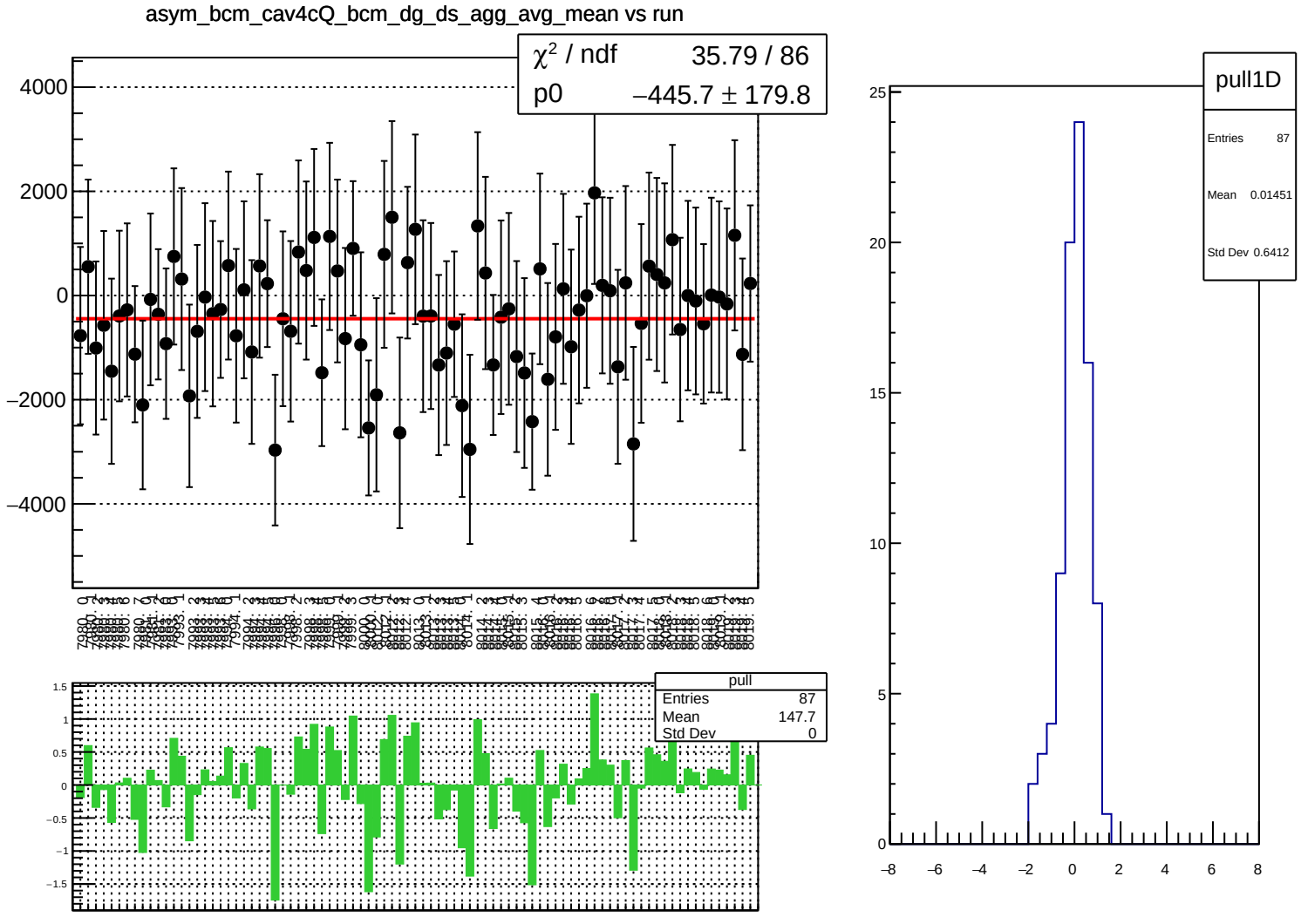

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 34.39 / 86
p0 −439.2 ± 180.1
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 40.22
Std Dev 61.32
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.01041
Std Dev 0.6287
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

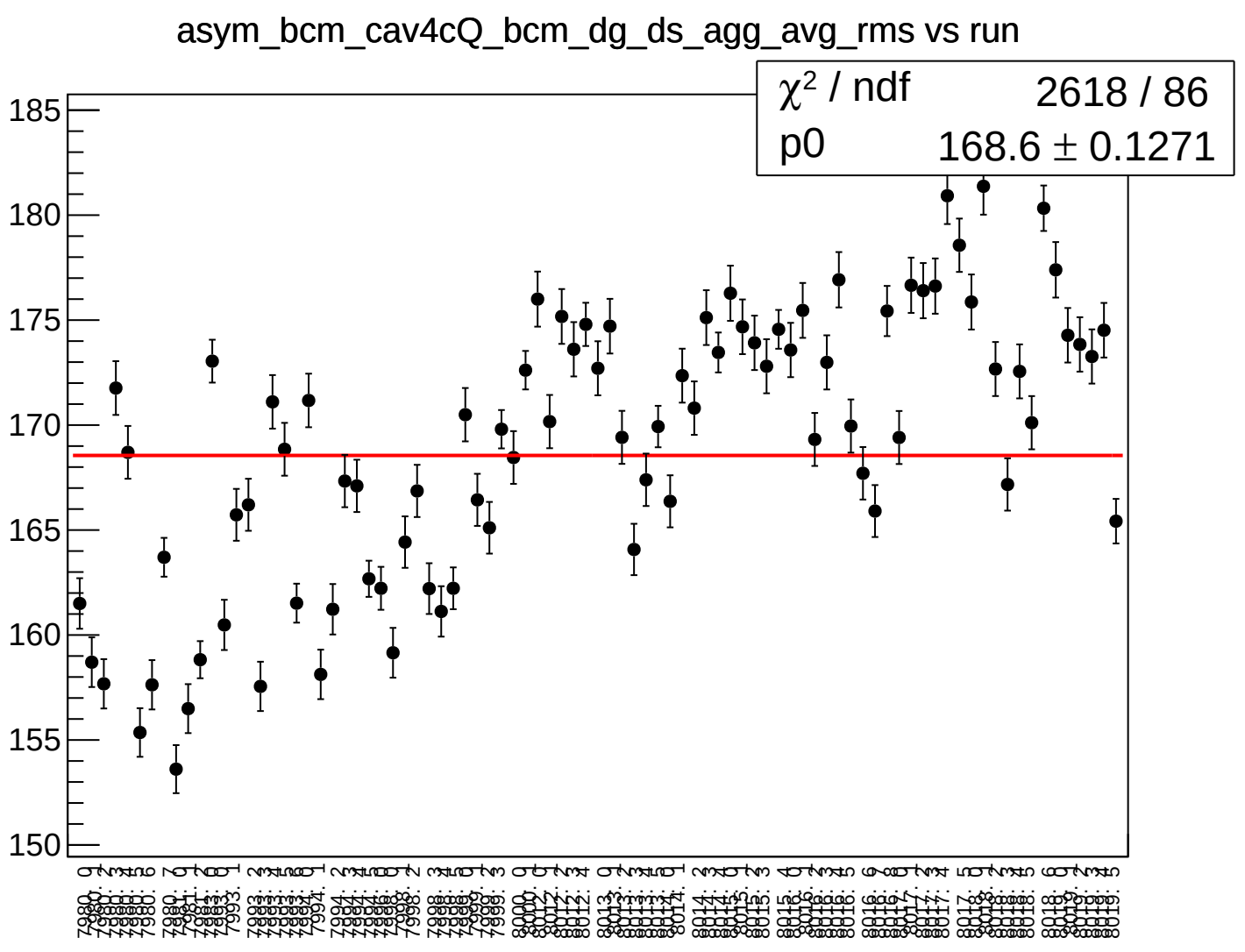

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2609 / 86
p0 168.8 ± 0.1273
185
180
175
170
165
160
155

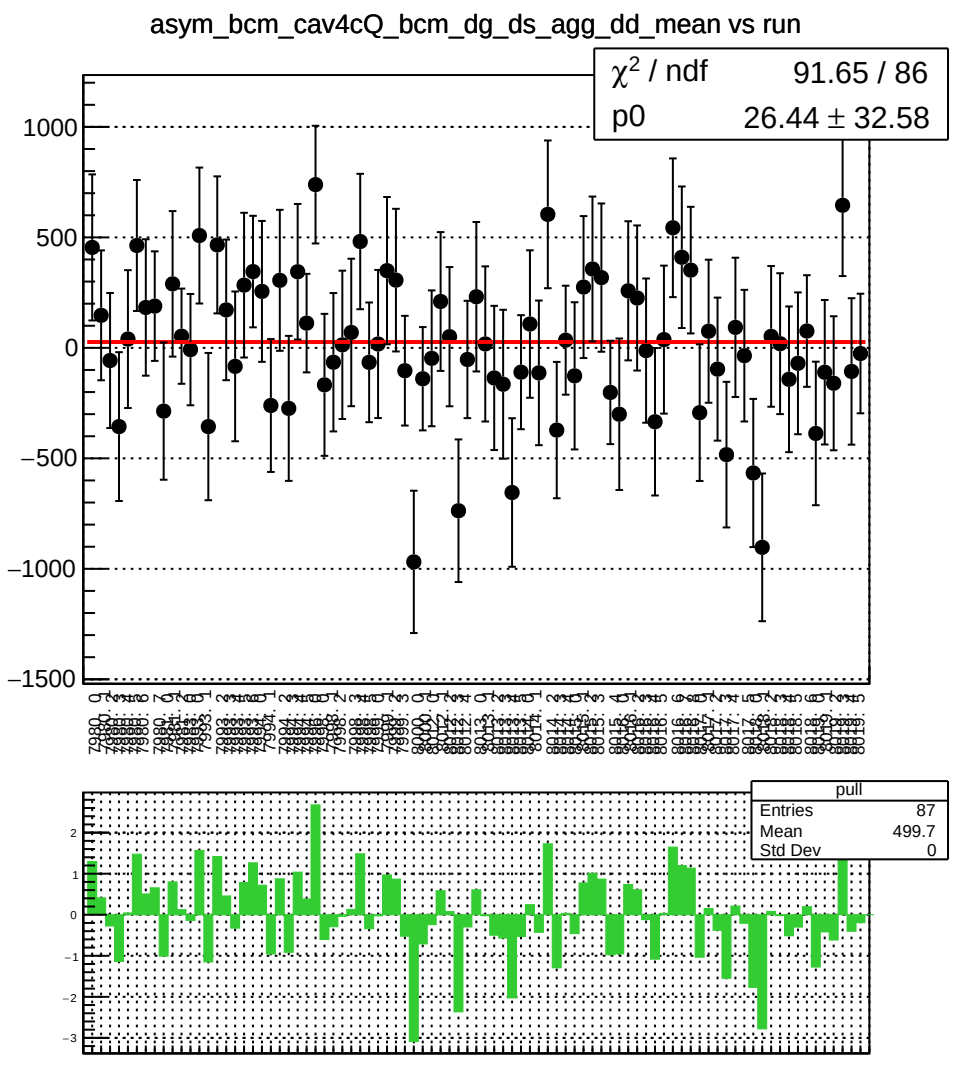

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 81.32 / 86
p0 19.84 ± 36.05
1000
500
0
−500
−1000
−1500
pull
Entries 87
Mean 346.4
Std Dev 0
2
1
0
−1
−2
−3

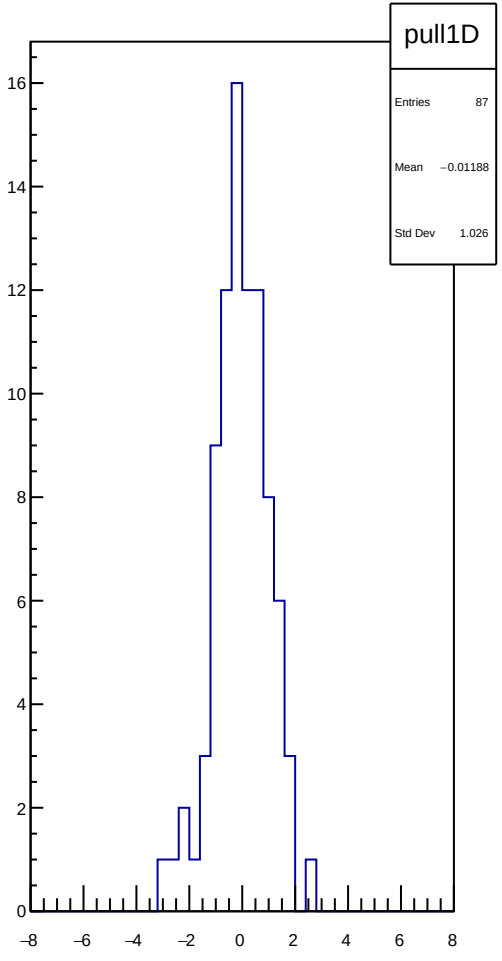

pull1D
Entries 87
Mean 0.009655
Std Dev 0.9667
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

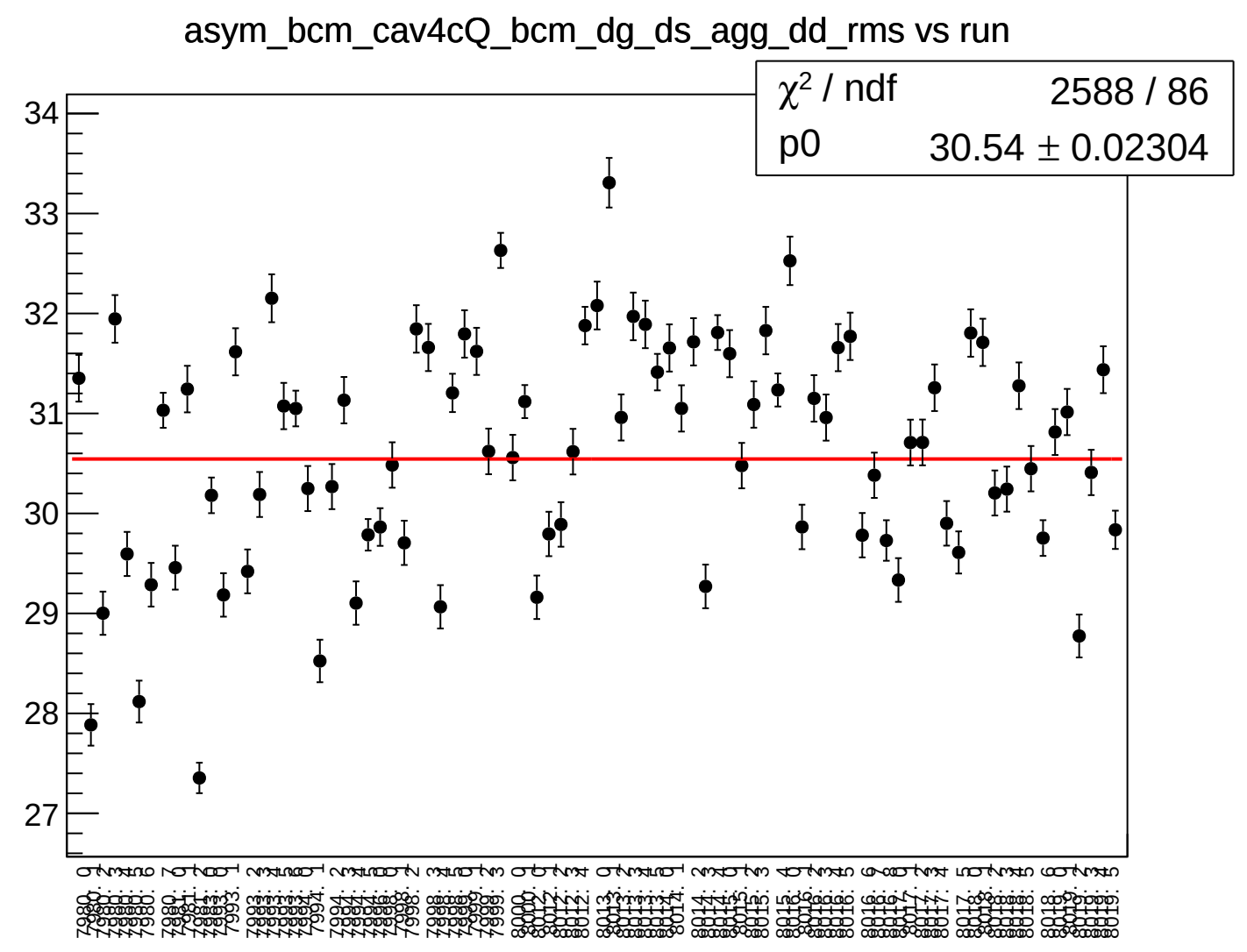

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1561 / 86
p0 33.81 ± 0.02549
36
35
34
33
32
31
30

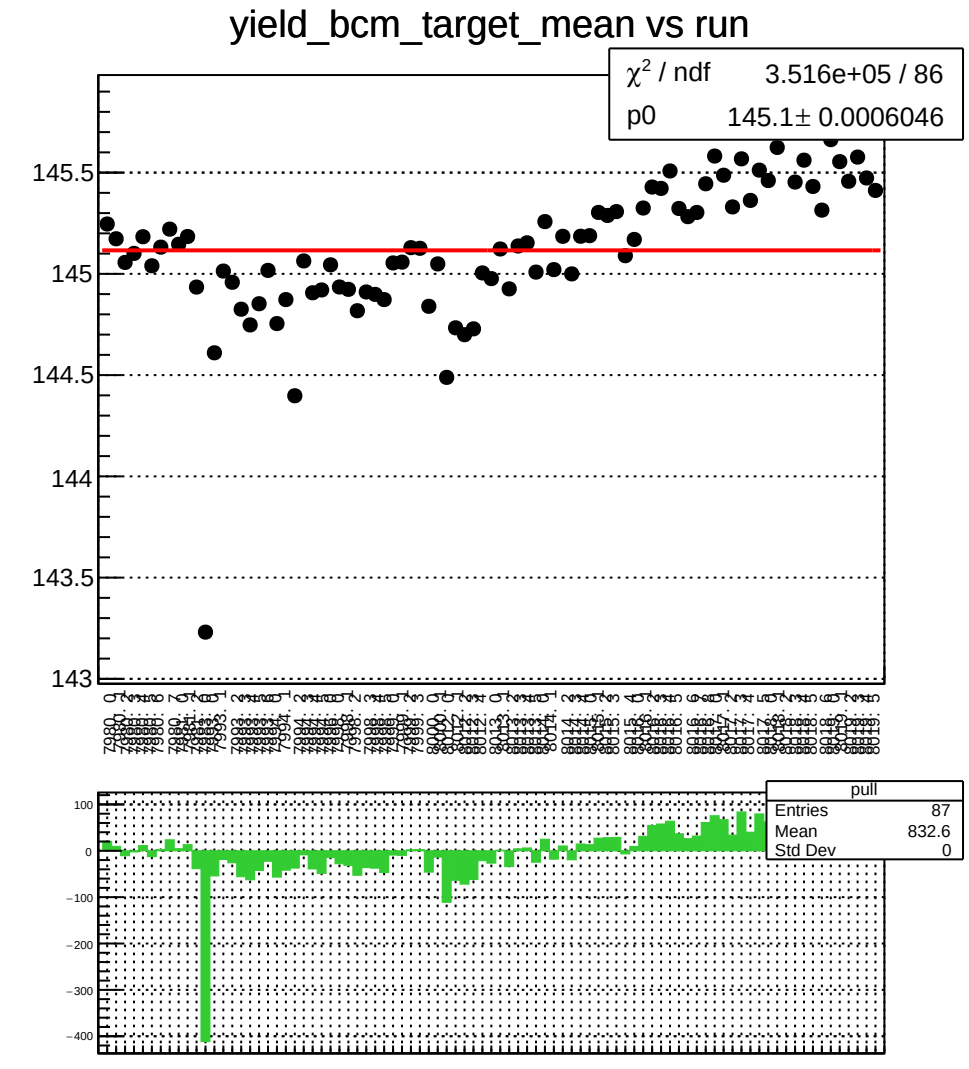

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 35.79 / 86
p0 −445.7 ± 179.8
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 147.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.01451
Std Dev 0.6412
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

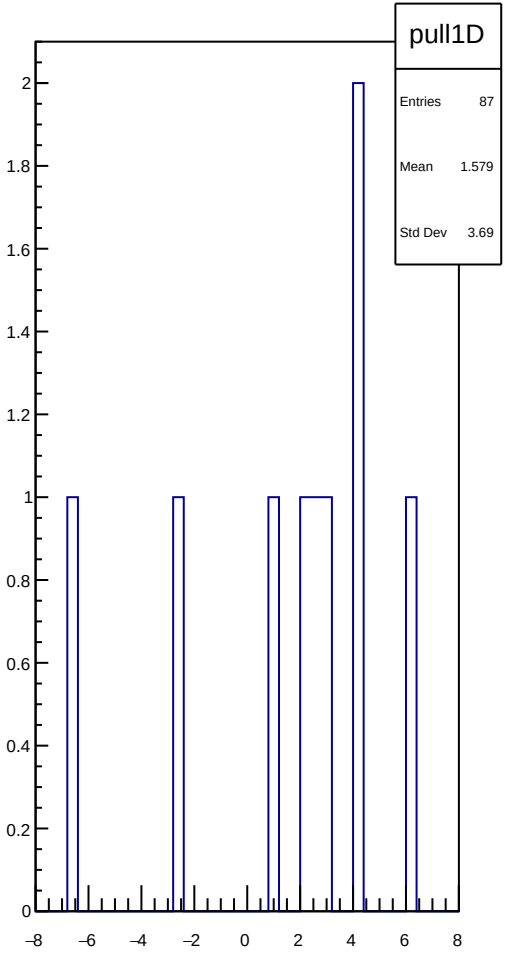

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2618 / 86
p0 168.6 ± 0.1271
185
180
175
170
165
160
155
150

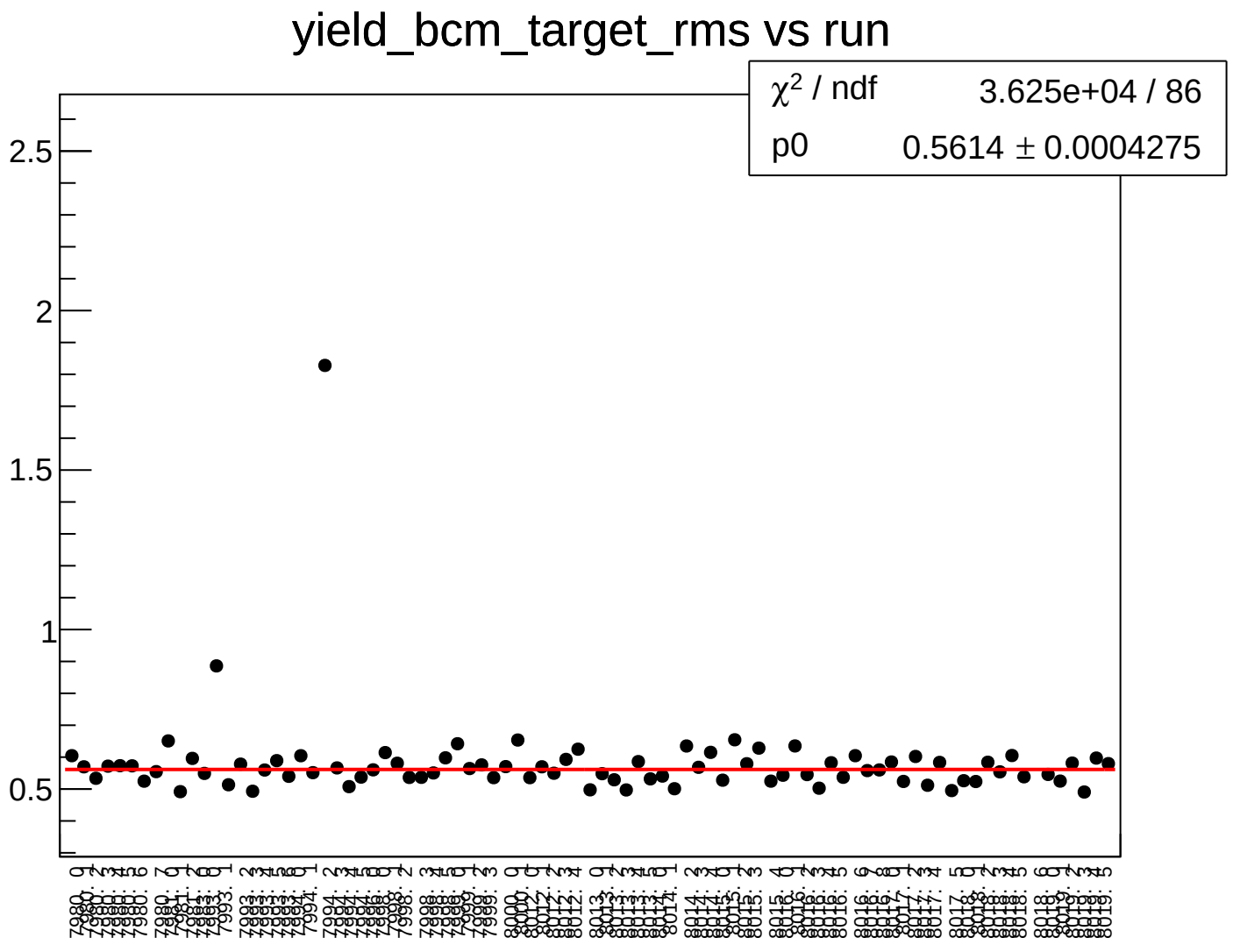

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 91.65 / 86
p0 26.44 ± 32.58
pull
Entries 87
Mean 499.7
Std Dev 0

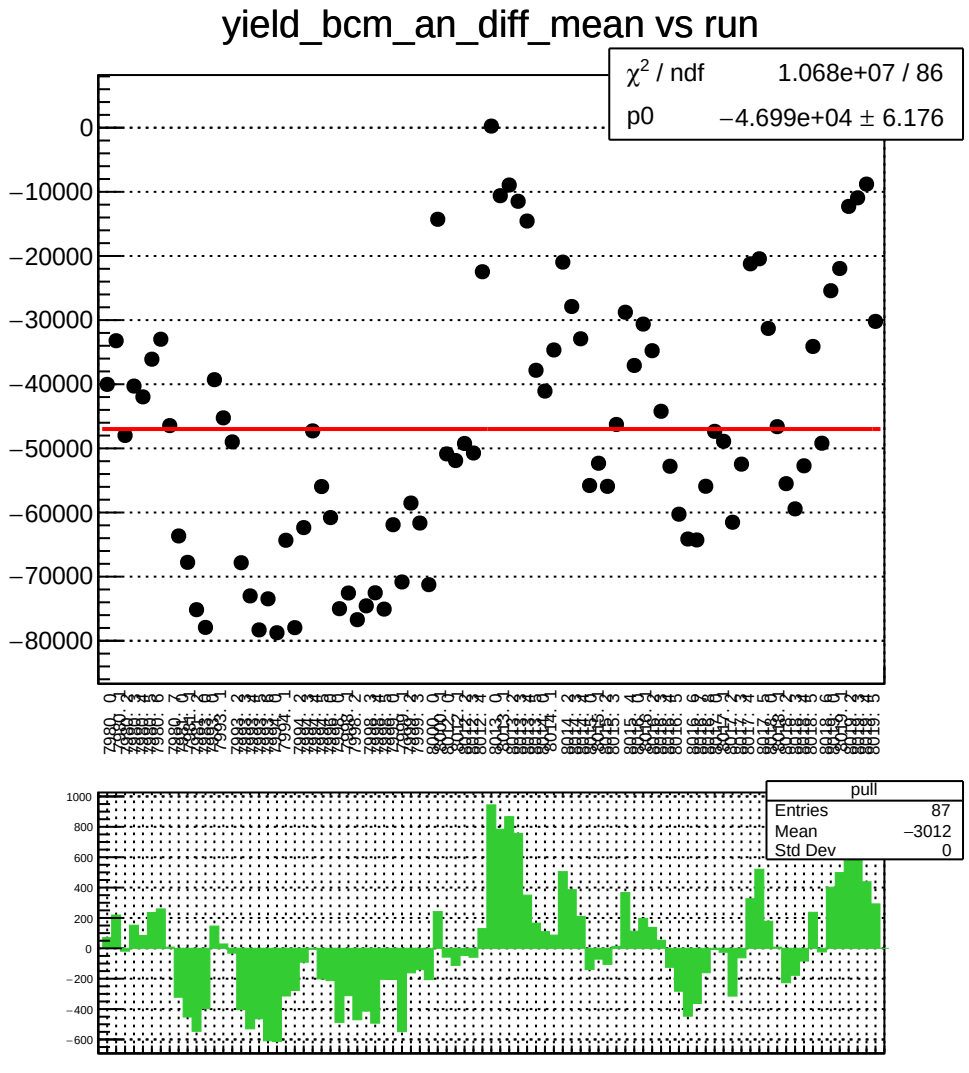

pull1D
Entries 87
Mean −0.01188
Std Dev 1.026

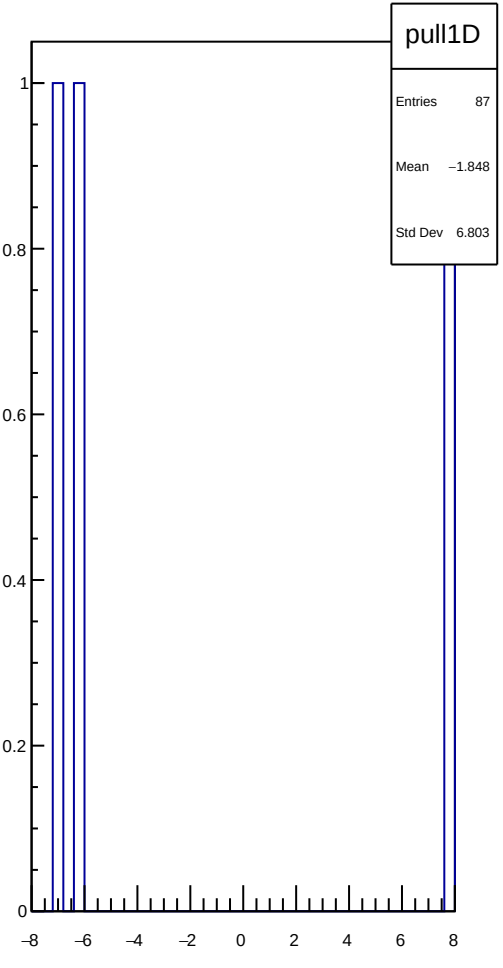

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2588 / 86
p0 30.54 ± 0.02304
34
33
32
31
30
29
28
27

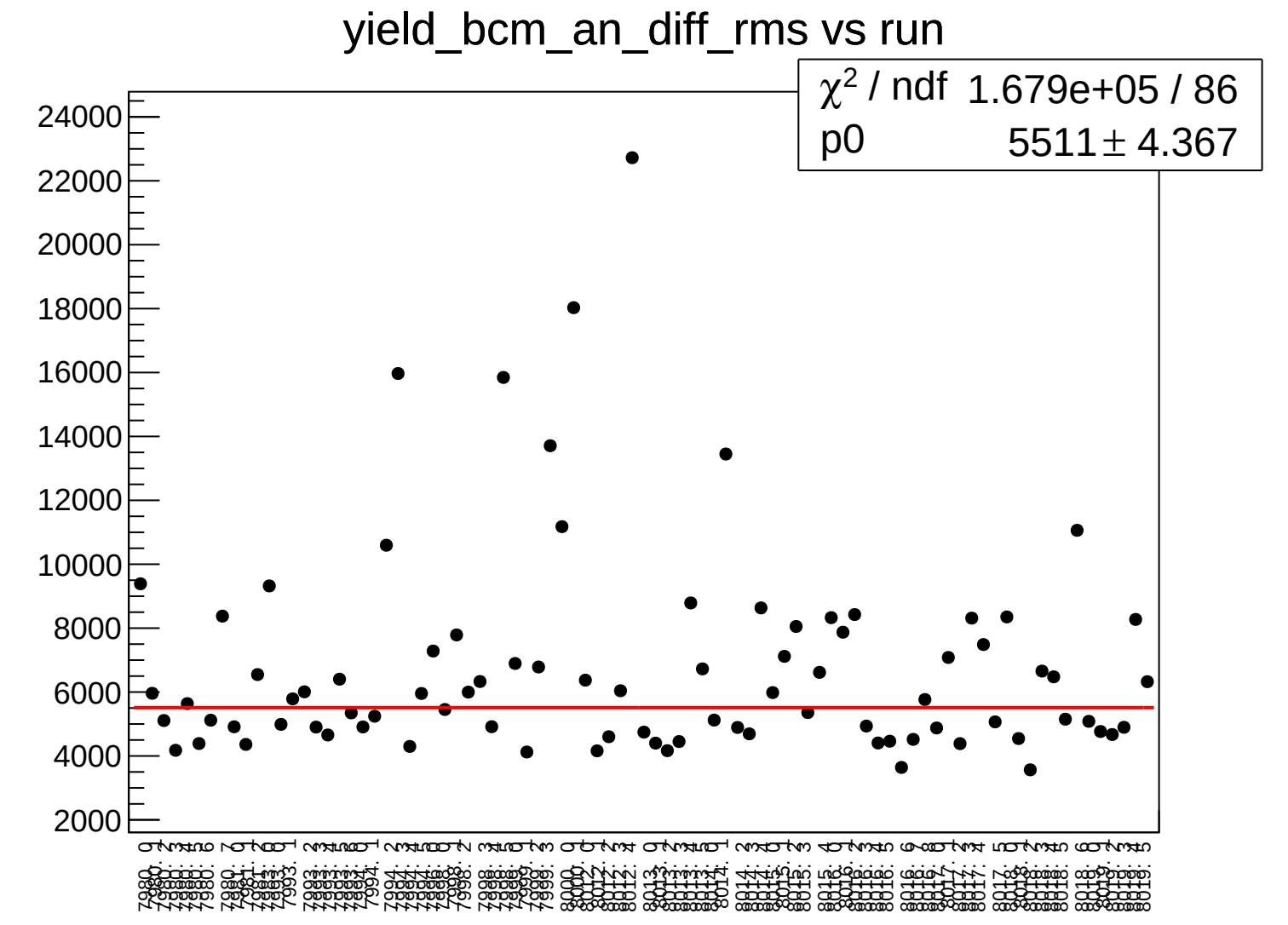

yield_bcm_target_mean vs run
χ² / ndf 3.516e+05 / 86
p0 145.1± 0.0006046
145.5
145
144.5
144
143.5
143
pull
Entries 87
Mean 832.6
Std Dev 0
100
0
−100
−200
−300
−400

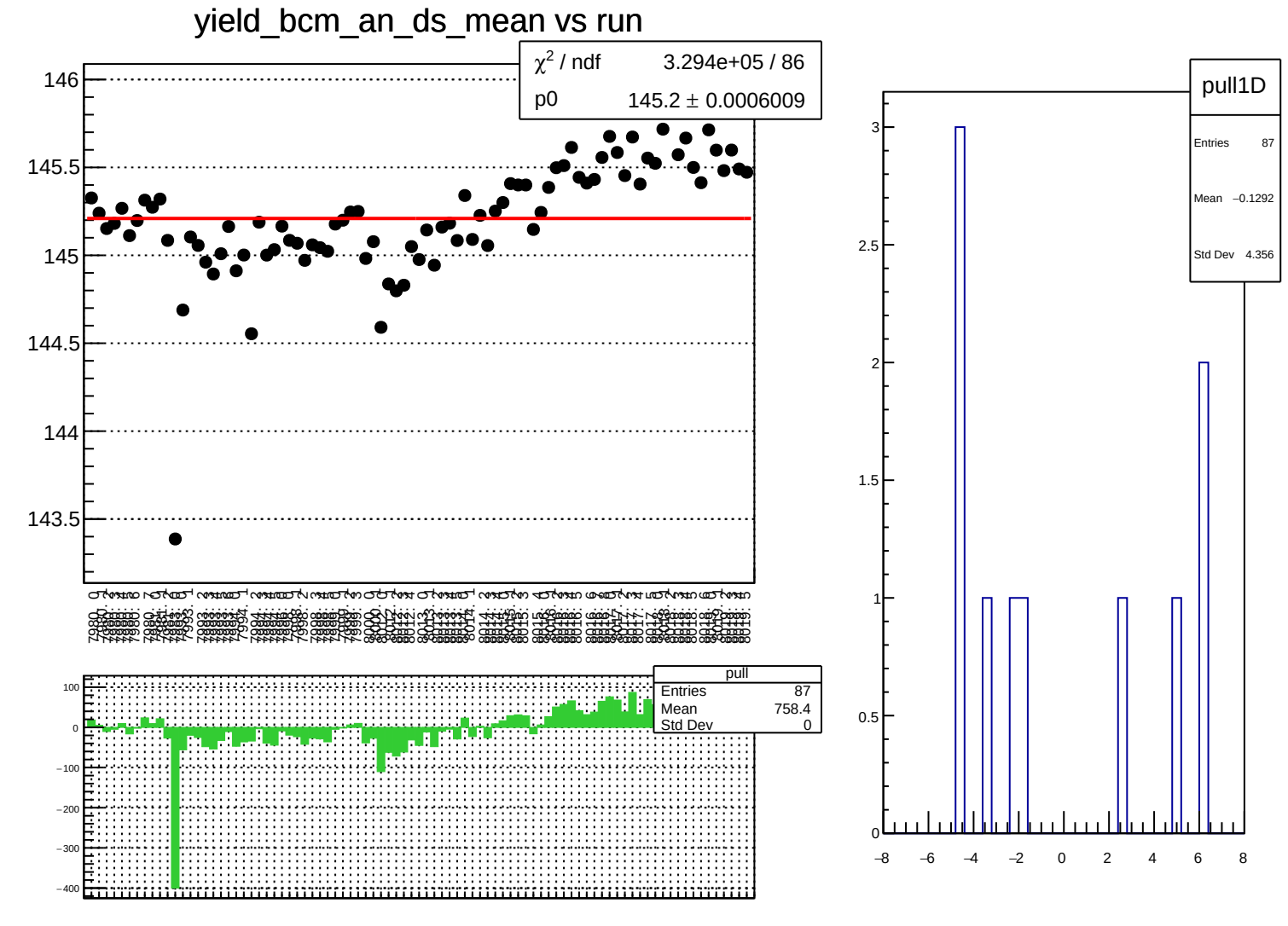

pull1D
Entries 87
Mean 1.579
Std Dev 3.69
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

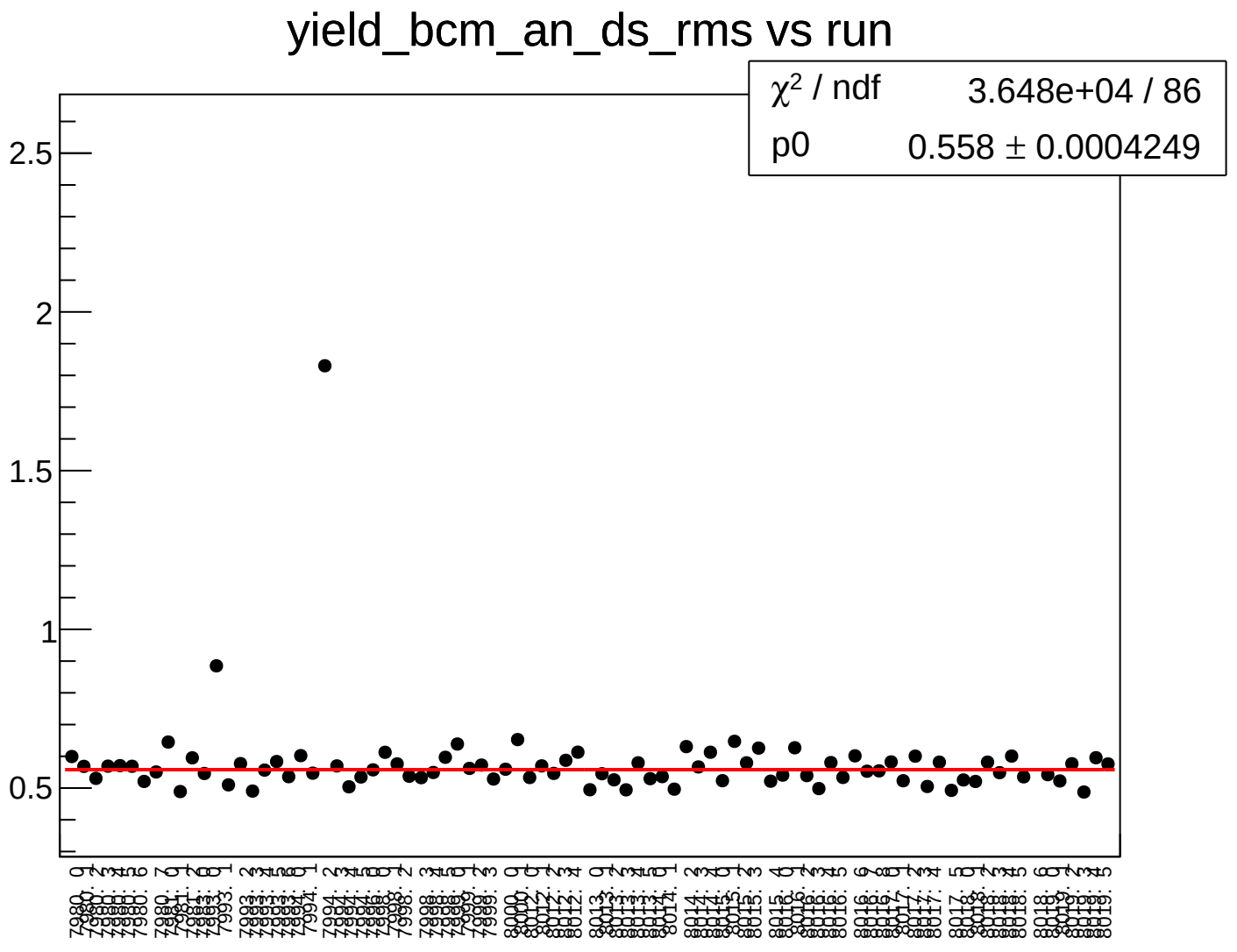

yield_bcm_target_rms vs run
χ² / ndf 3.625e+04 / 86
p0 0.5614 ± 0.0004275
2.5
2
1.5
1
0.5

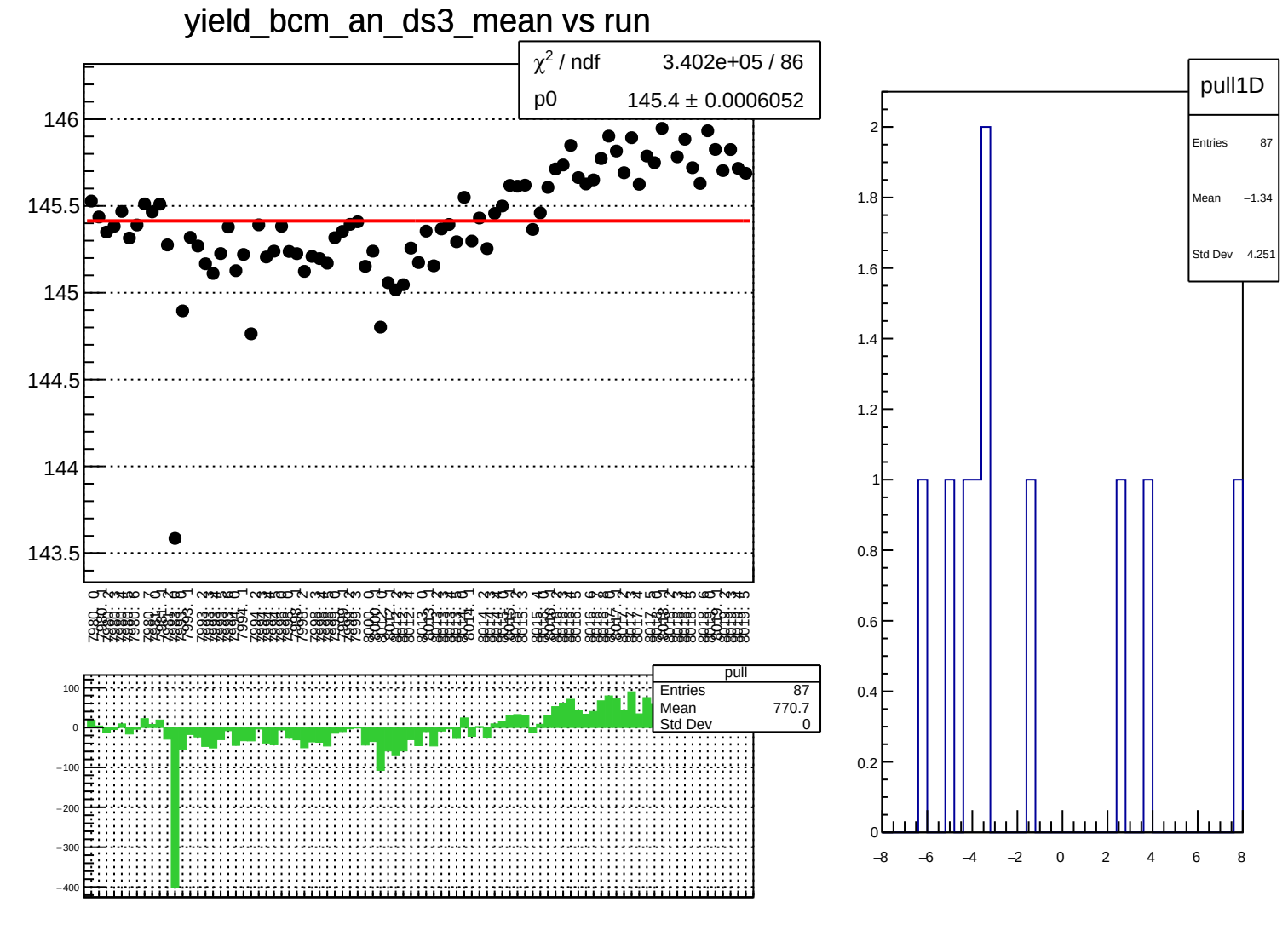

yield_bcm_an_diff_mean vs run
χ² / ndf 1.068e+07 / 86
p0 −4.699e+04 ± 6.176
pull
Entries 87
Mean −3012
Std Dev 0

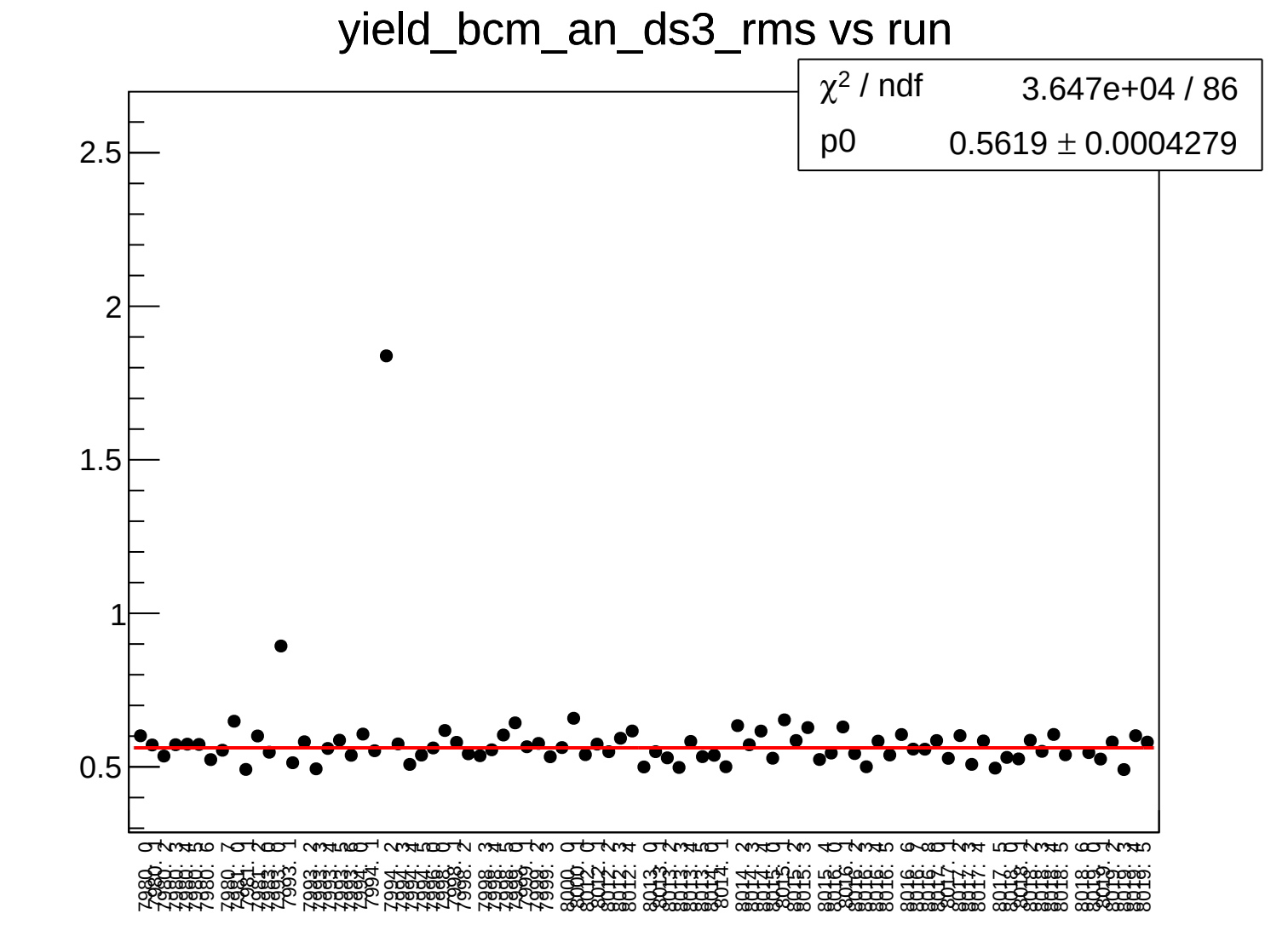

pull1D
Entries 87
Mean −1.848
Std Dev 6.803

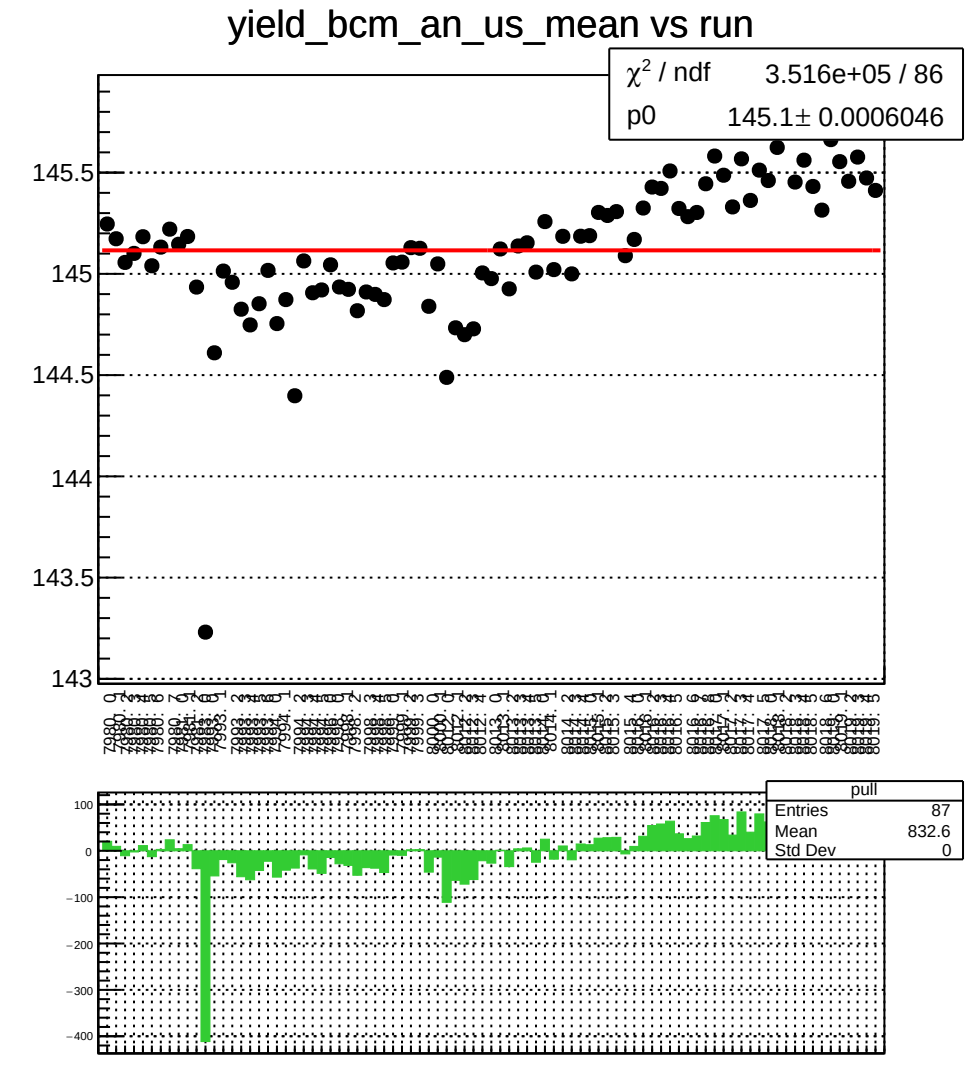

yield_bcm_an_diff_rms vs run
χ^2 / ndf 1.679e+05 / 86
p0 5511 ± 4.367
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

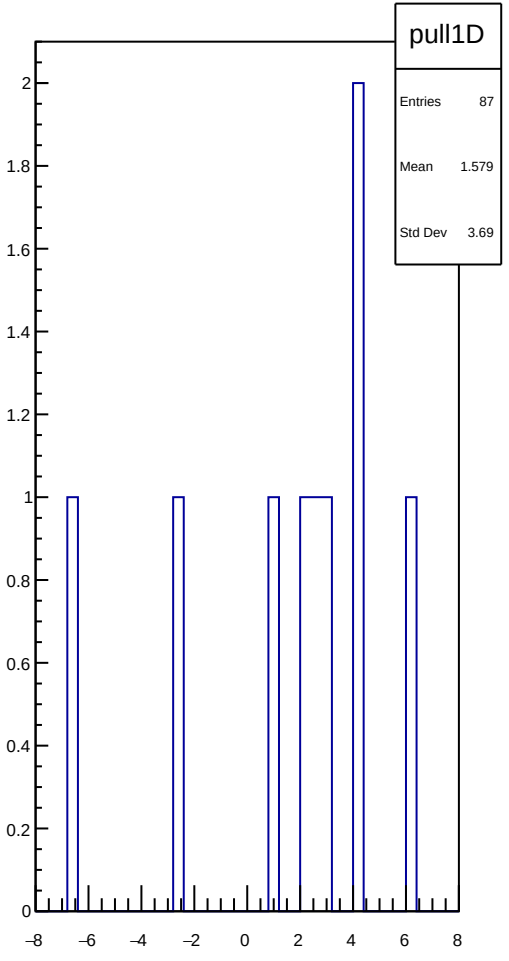

yield_bcm_an_ds_mean vs run
χ² / ndf 3.294e+05 / 86
p0 145.2 ± 0.0006009
146
145.5
145
144.5
144
143.5
pull
Entries 87
Mean 758.4
Std Dev 0
100
0
−100
−200
−300
−400
pull1D
Entries 87
Mean −0.1292
Std Dev 4.356
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

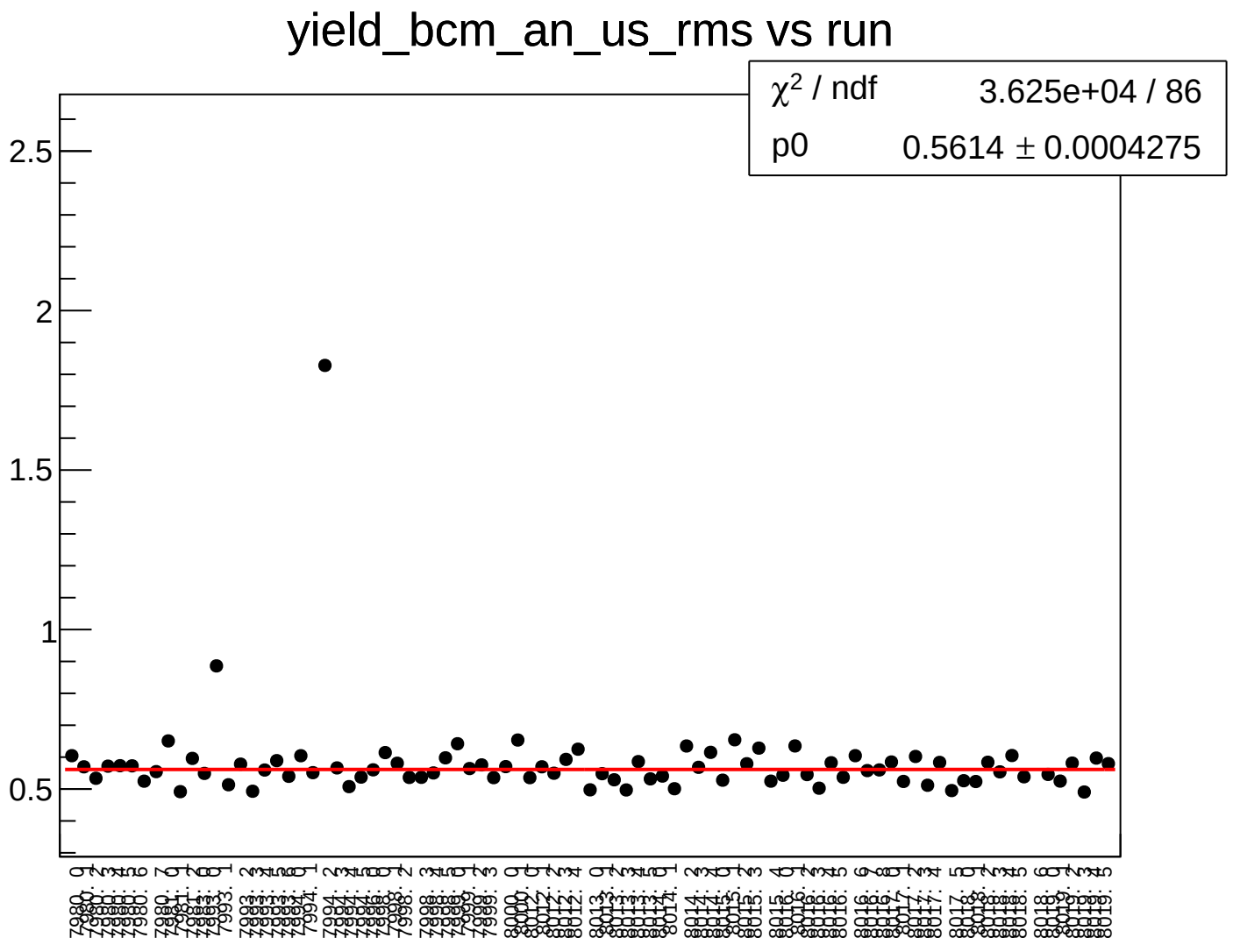

yield_bcm_an_ds_rms vs run
χ² / ndf 3.648e+04 / 86
p0 0.558 ± 0.0004249
2.5
2
1.5
1
0.5

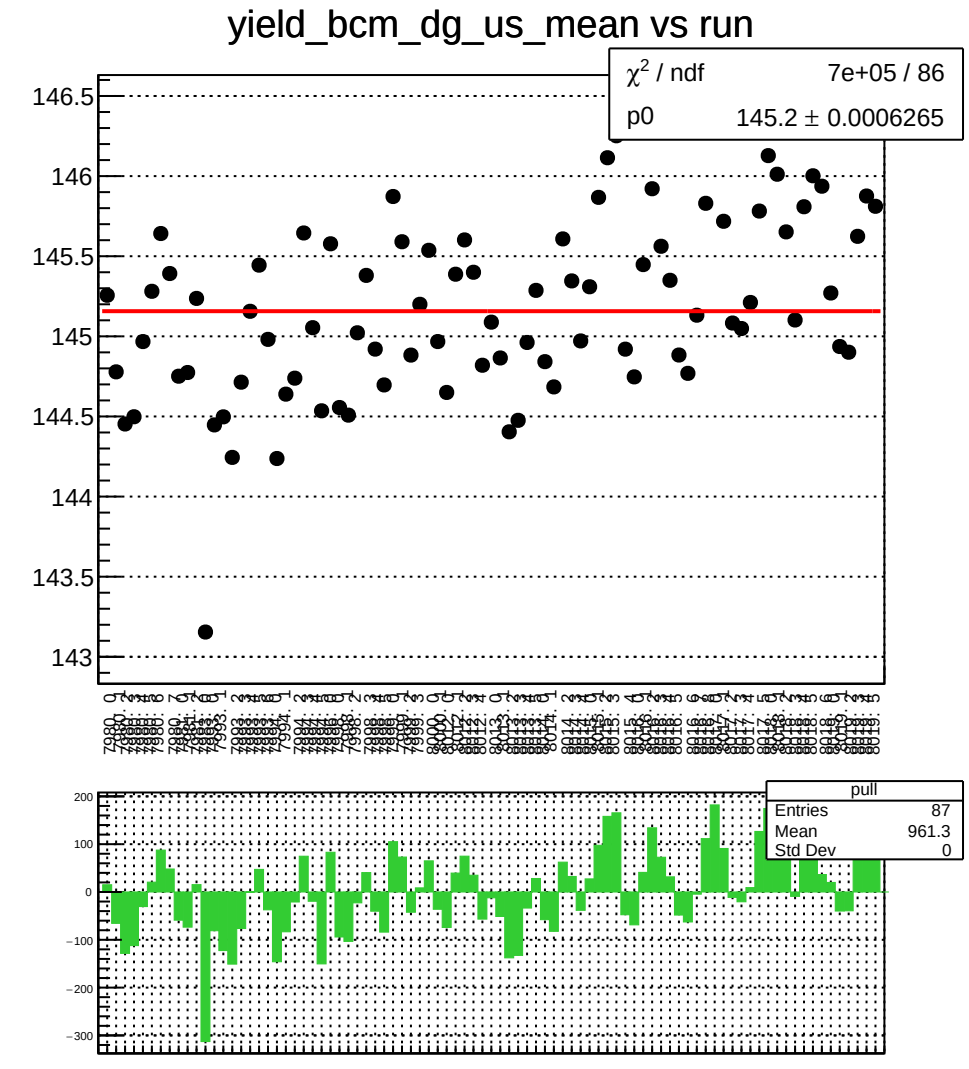

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.402e+05 / 86
p0 145.4 ± 0.0006052
146
145.5
145
144.5
144
143.5
pull
Entries 87
Mean 770.7
Std Dev 0
100
0
−100
−200
−300
−400
pull1D
Entries 87
Mean −1.34
Std Dev 4.251
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

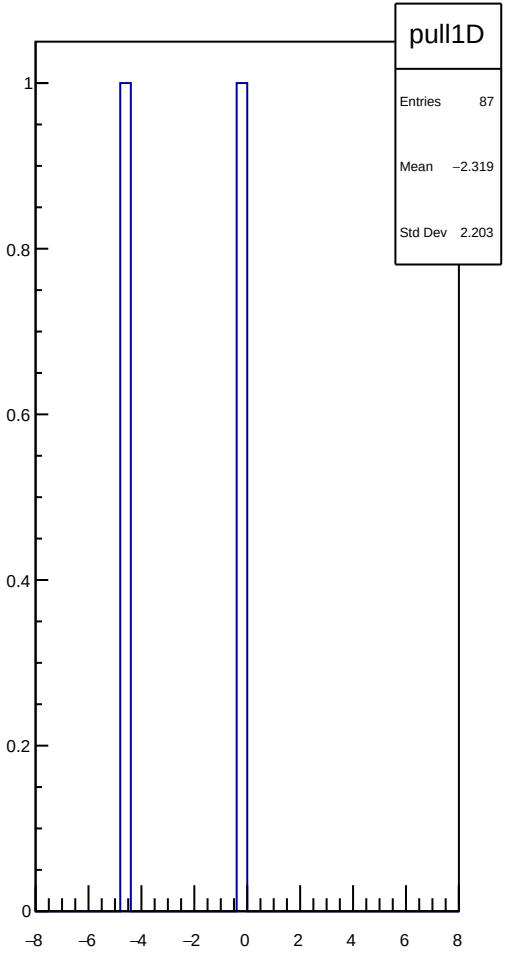

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 3.647e+04 / 86
p0 0.5619 ± 0.0004279
2.5
2
1.5
1
0.5

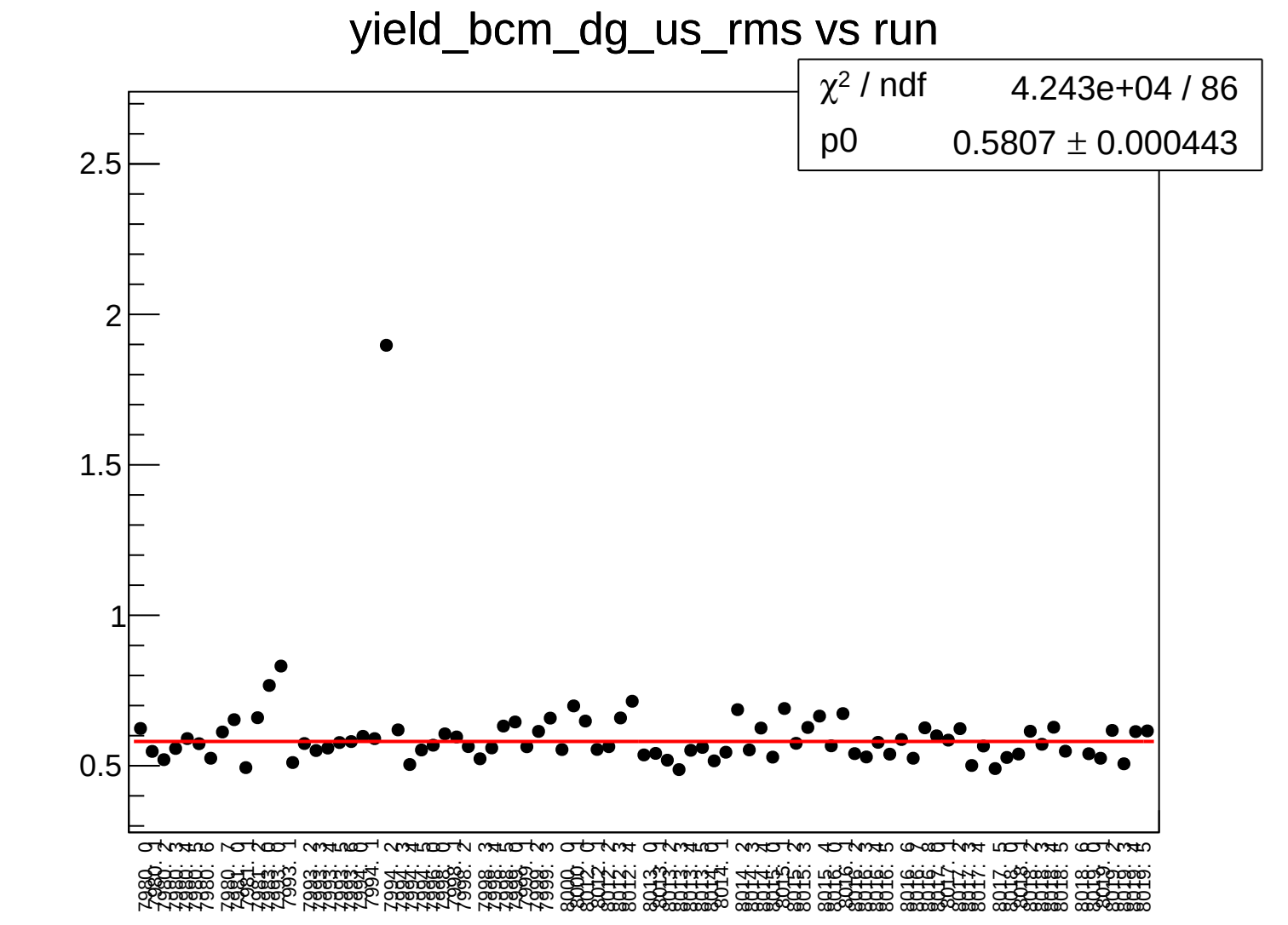

yield_bcm_an_us_mean vs run
χ² / ndf 3.516e+05 / 86
p0 145.1± 0.0006046
145.5
145
144.5
144
143.5
143
pull
Entries 87
Mean 832.6
Std Dev 0
100
0
−100
−200
−300
−400

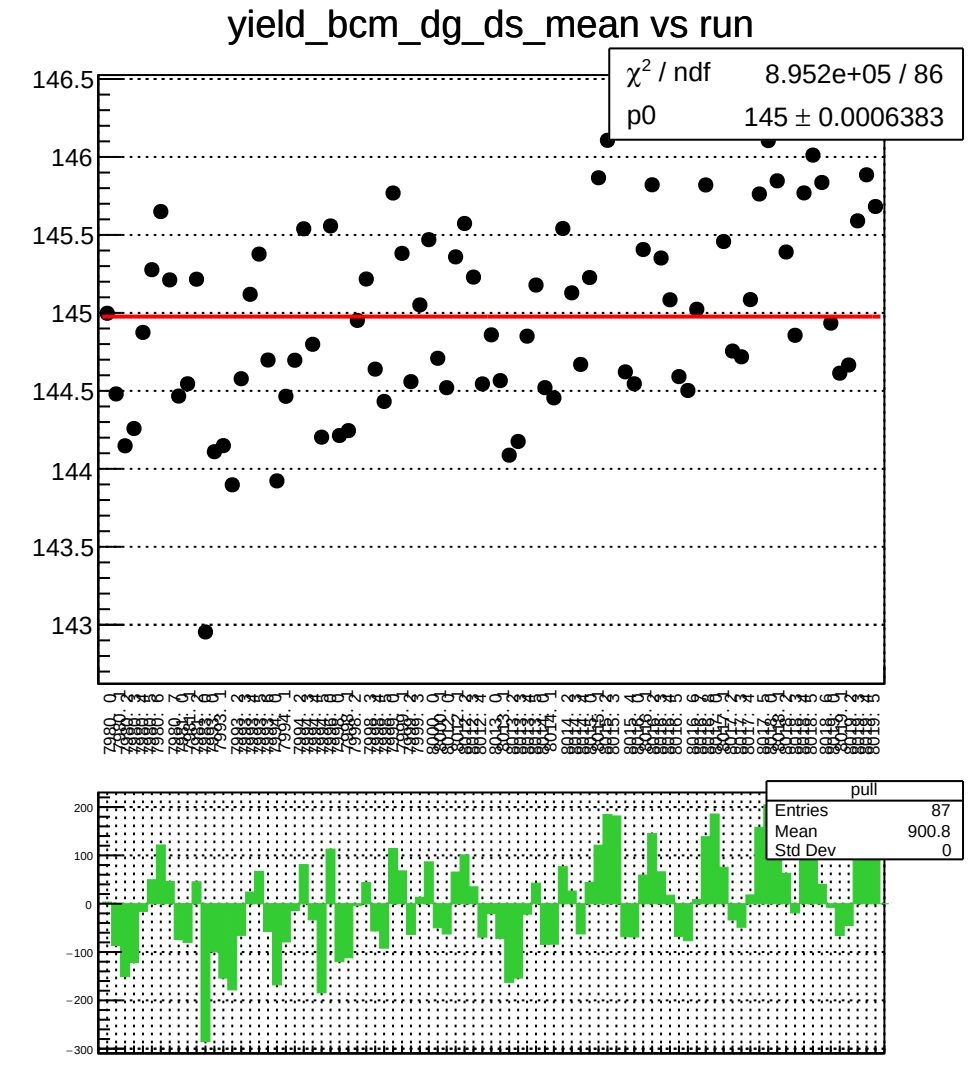

pull1D
Entries 87
Mean 1.579
Std Dev 3.69
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

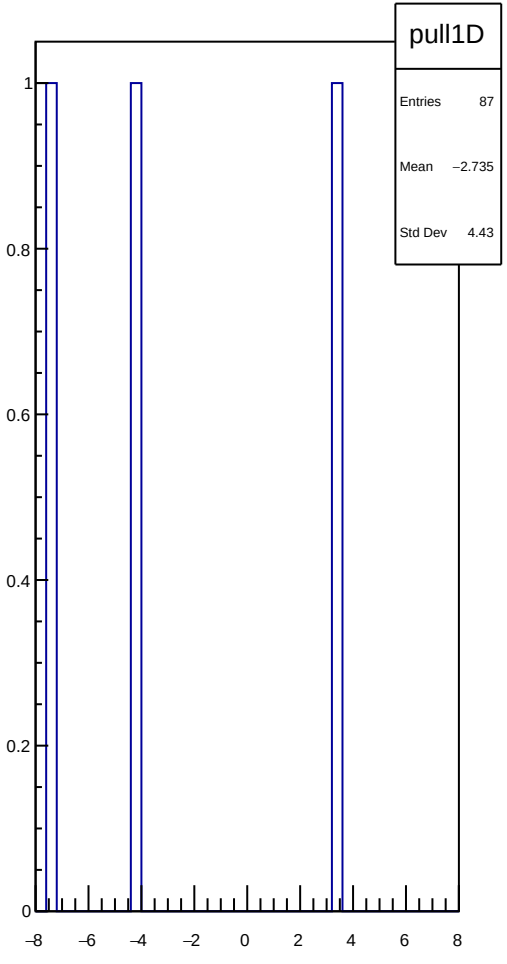

yield_bcm_an_us_rms vs run
χ² / ndf 3.625e+04 / 86
p0 0.5614 ± 0.0004275
2.5
2
1.5
1
0.5

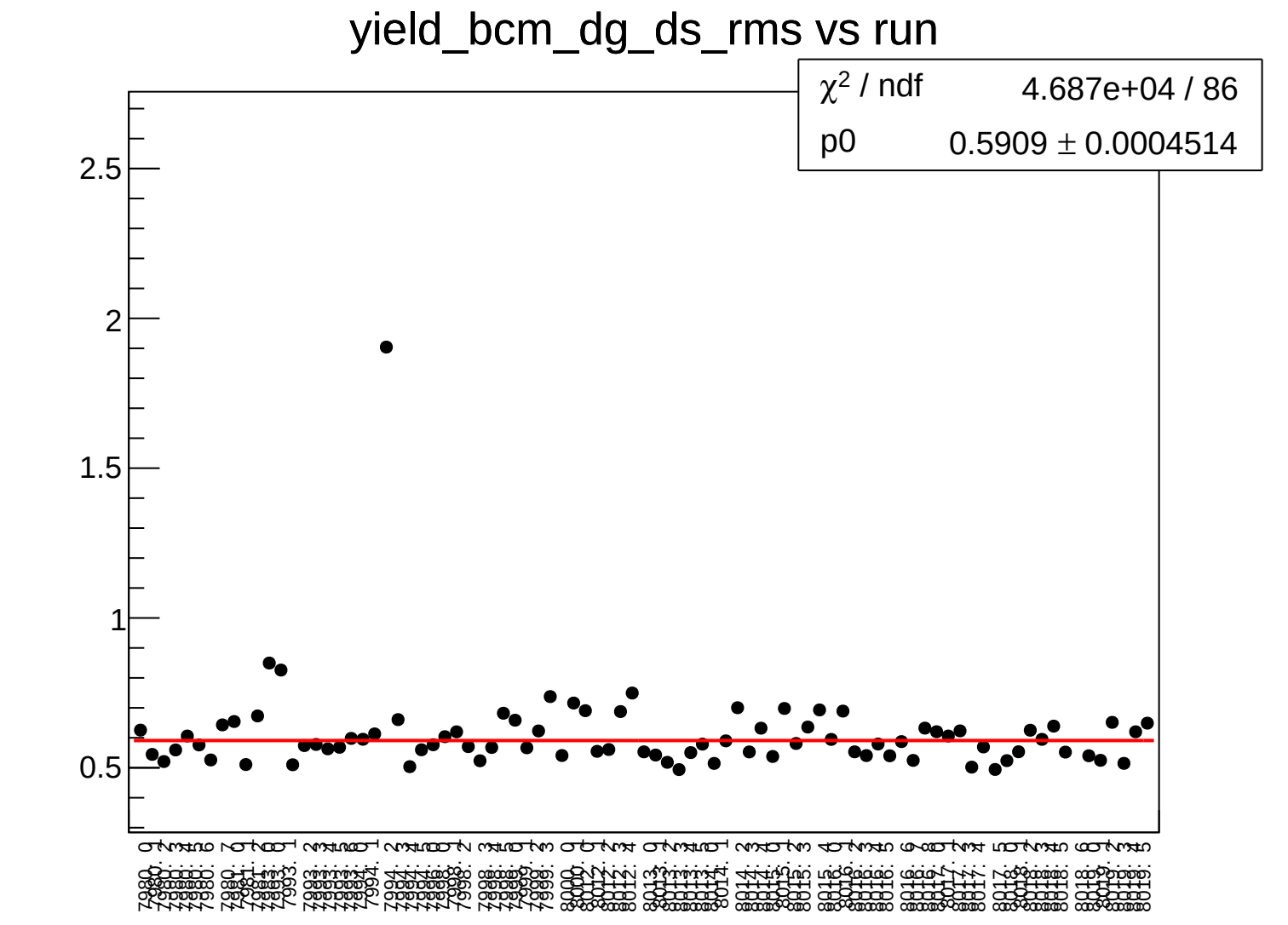

yield_bcm_dg_us_mean vs run
χ² / ndf 7e+05 / 86
p0 145.2 ± 0.0006265
146.5
146
145.5
145
144.5
144
143.5
143
pull
Entries 87
Mean 961.3
Std Dev 0
200
100
0
−100
−200
−300

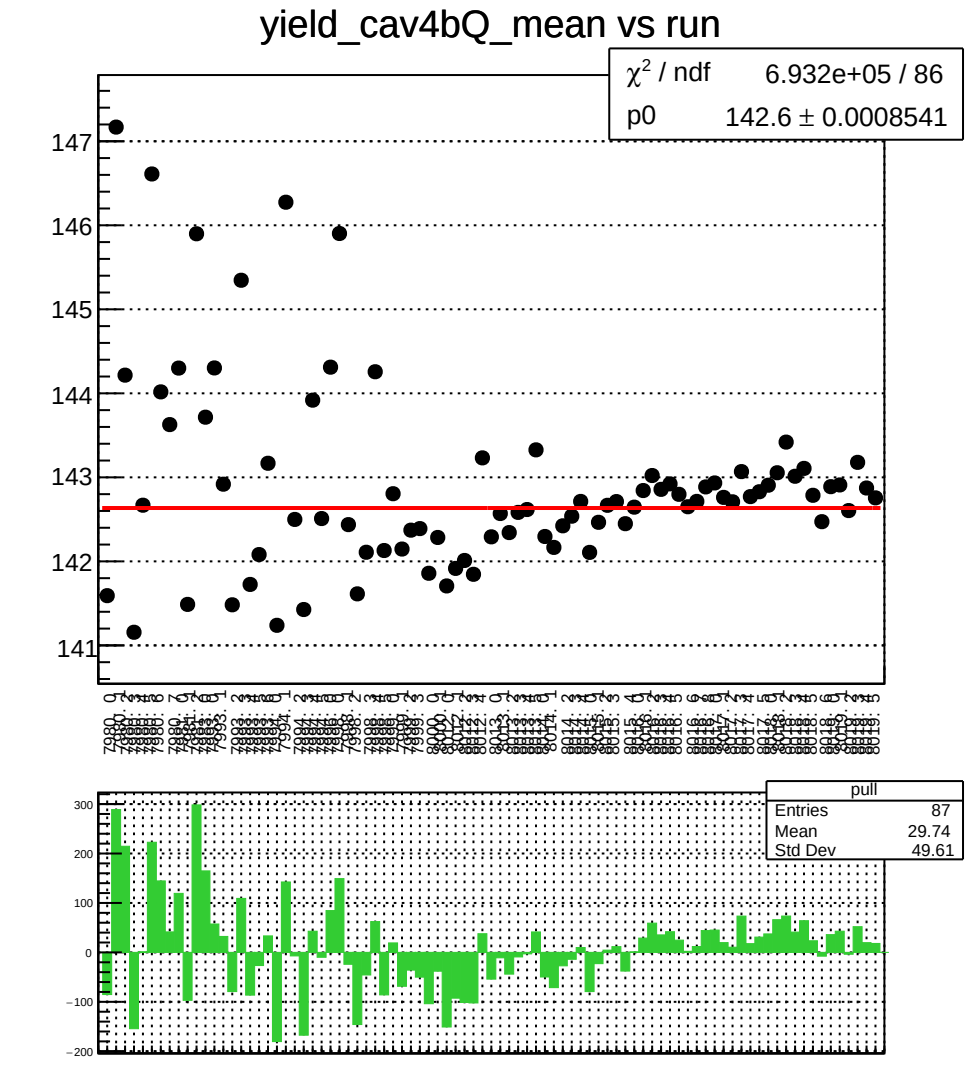

pull1D
Entries 87
Mean −2.319
Std Dev 2.203
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

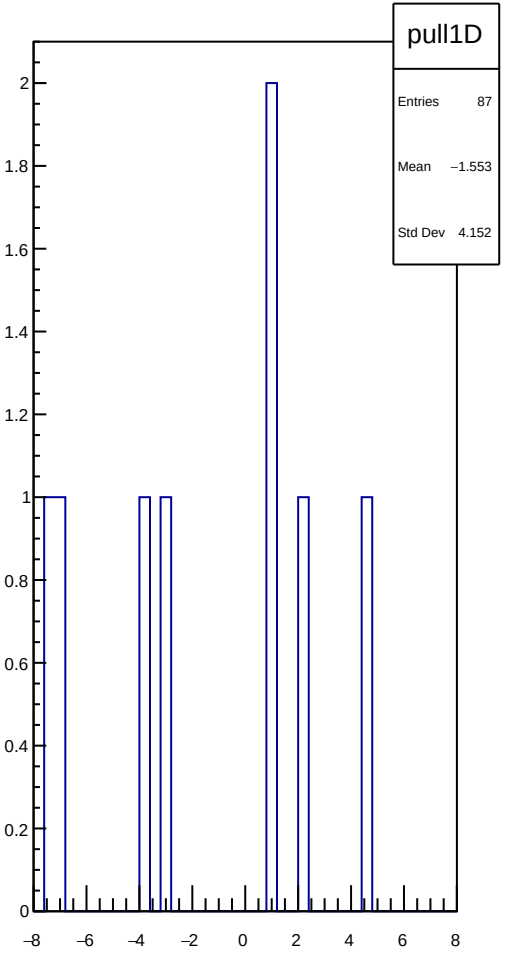

yield_bcm_dg_us_rms vs run
χ² / ndf 4.243e+04 / 86
p0 0.5807 ± 0.000443
2.5
2
1.5
1
0.5

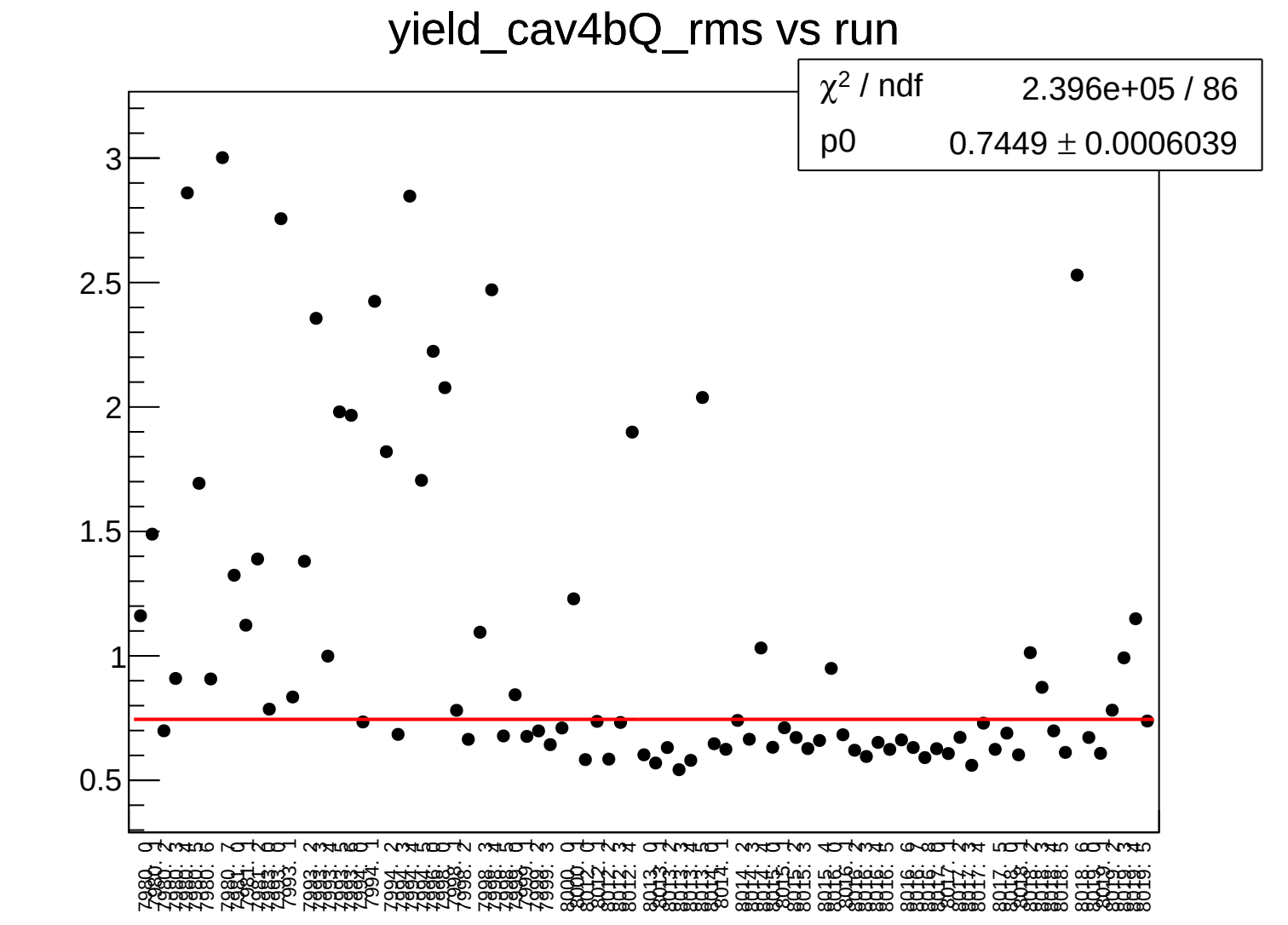

yield_bcm_dg_ds_mean vs run
χ² / ndf 8.952e+05 / 86
p0 145 ± 0.0006383
146.5
146
145.5
145
144.5
144
143.5
143
pull
Entries 87
Mean 900.8
Std Dev 0
200
100
0
−100
−200
−300

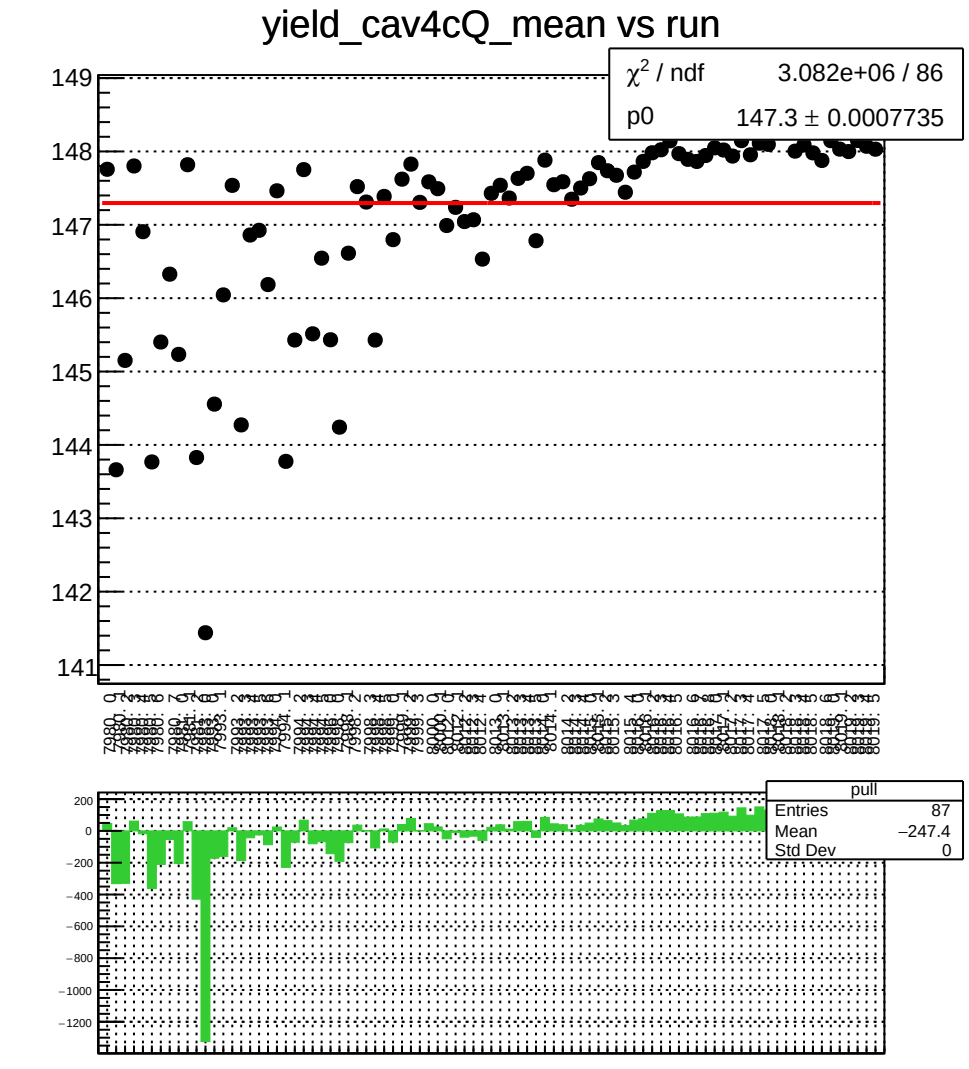

pull1D
Entries 87
Mean −2.735
Std Dev 4.43
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

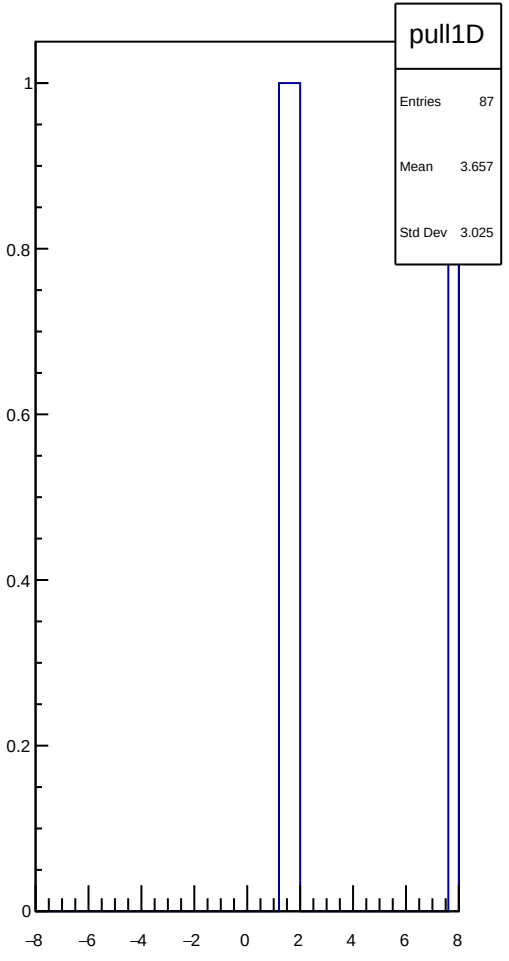

yield_bcm_dg_ds_rms vs run
χ² / ndf 4.687e+04 / 86
p0 0.5909 ± 0.0004514
2.5
2
1.5
1
0.5

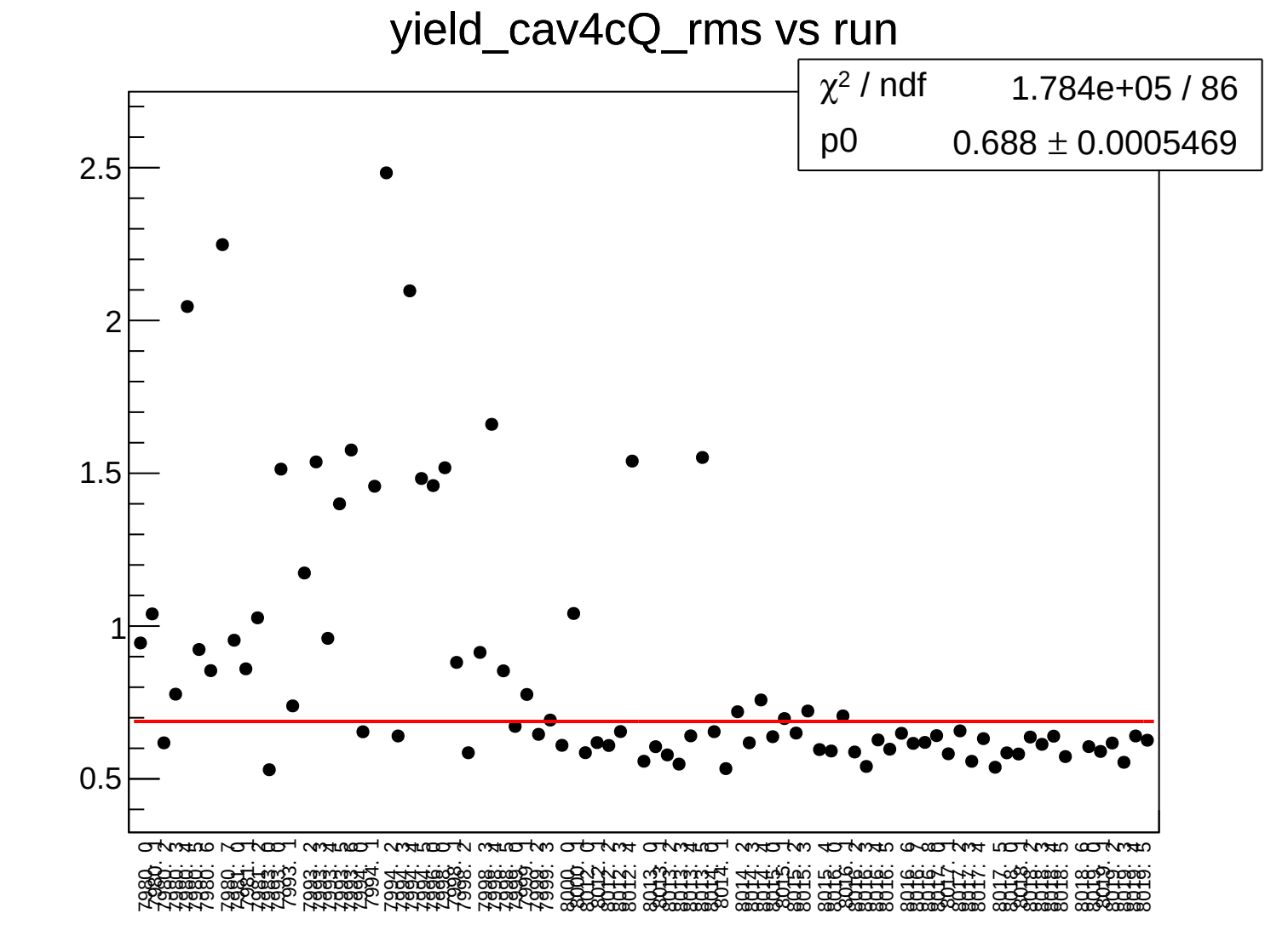

yield_cav4bQ_mean vs run
χ² / ndf 6.932e+05 / 86
p0 142.6 ± 0.0008541
147
146
145
144
143
142
141
pull
Entries 87
Mean 29.74
Std Dev 49.61
300
200
100
0
−100
−200

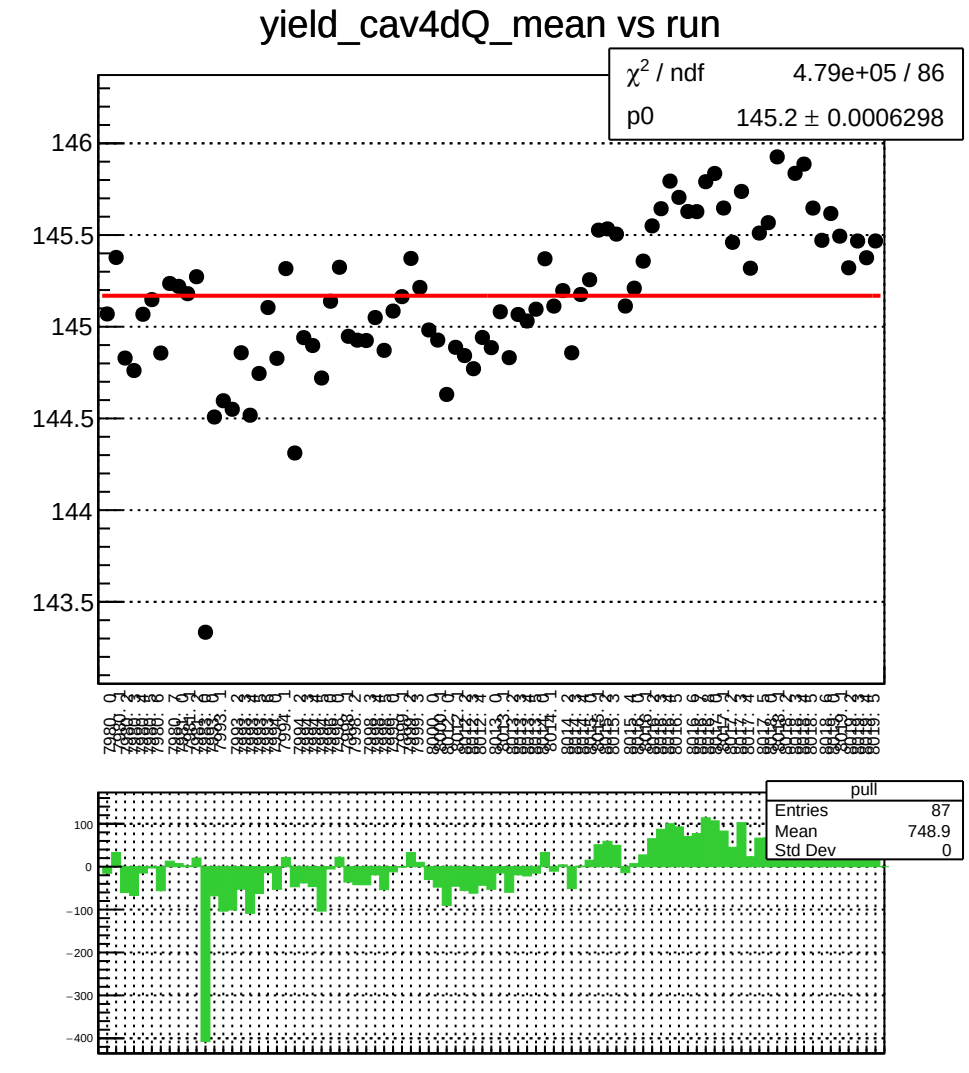

pull1D
Entries 87
Mean −1.553
Std Dev 4.152
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

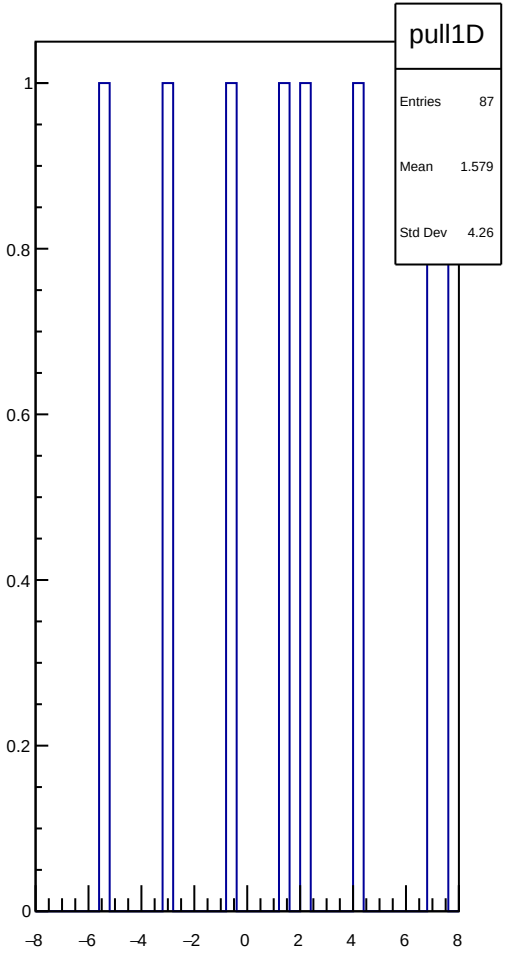

yield_cav4bQ_rms vs run
χ² / ndf 2.396e+05 / 86
p0 0.7449 ± 0.0006039
3
2.5
2
1.5
1
0.5

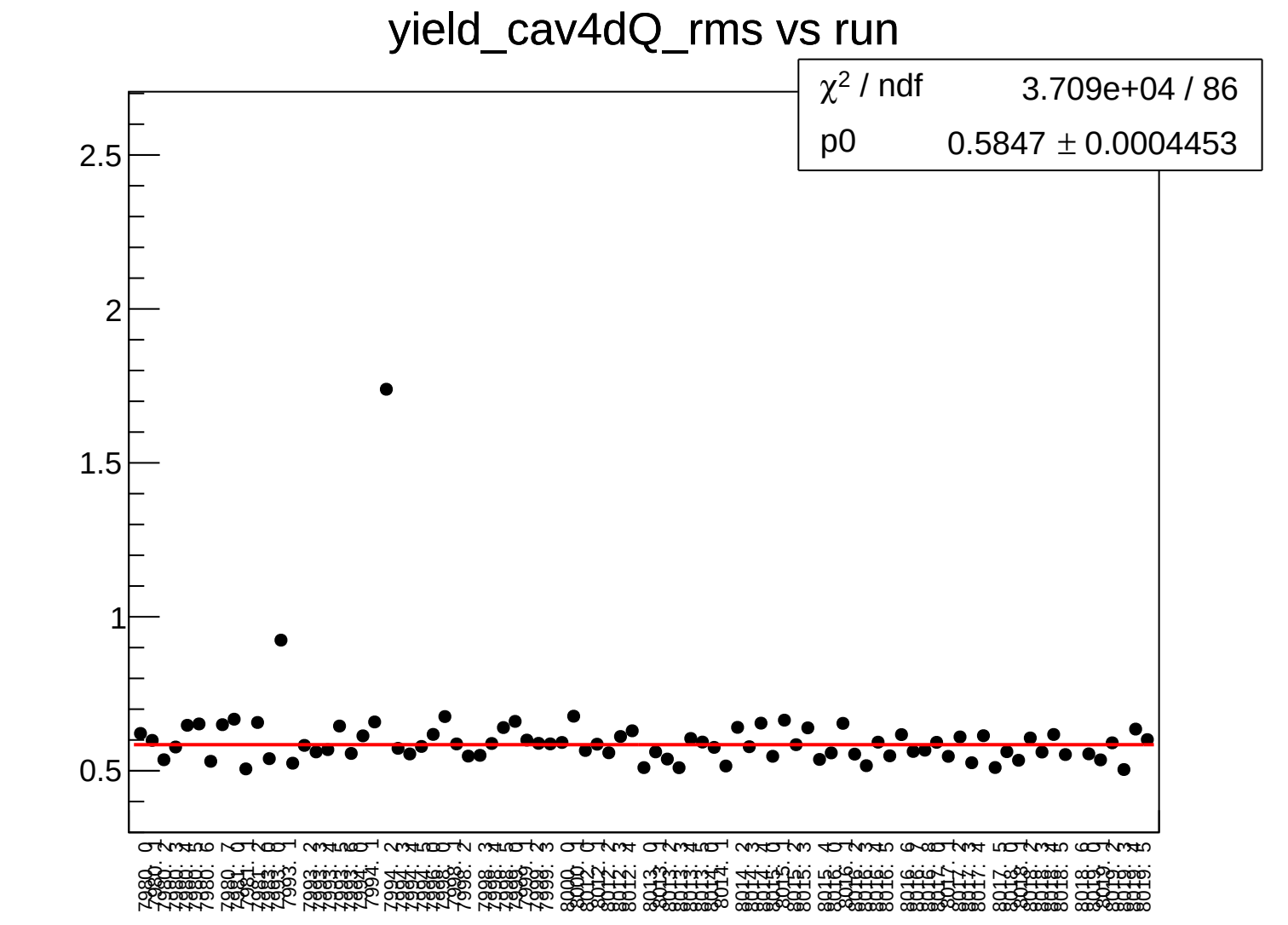

yield_cav4cQ_mean vs run
χ² / ndf 3.082e+06 / 86
p0 147.3 ± 0.0007735
149
148
147
146
145
144
143
142
141
pull
Entries 87
Mean −247.4
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200

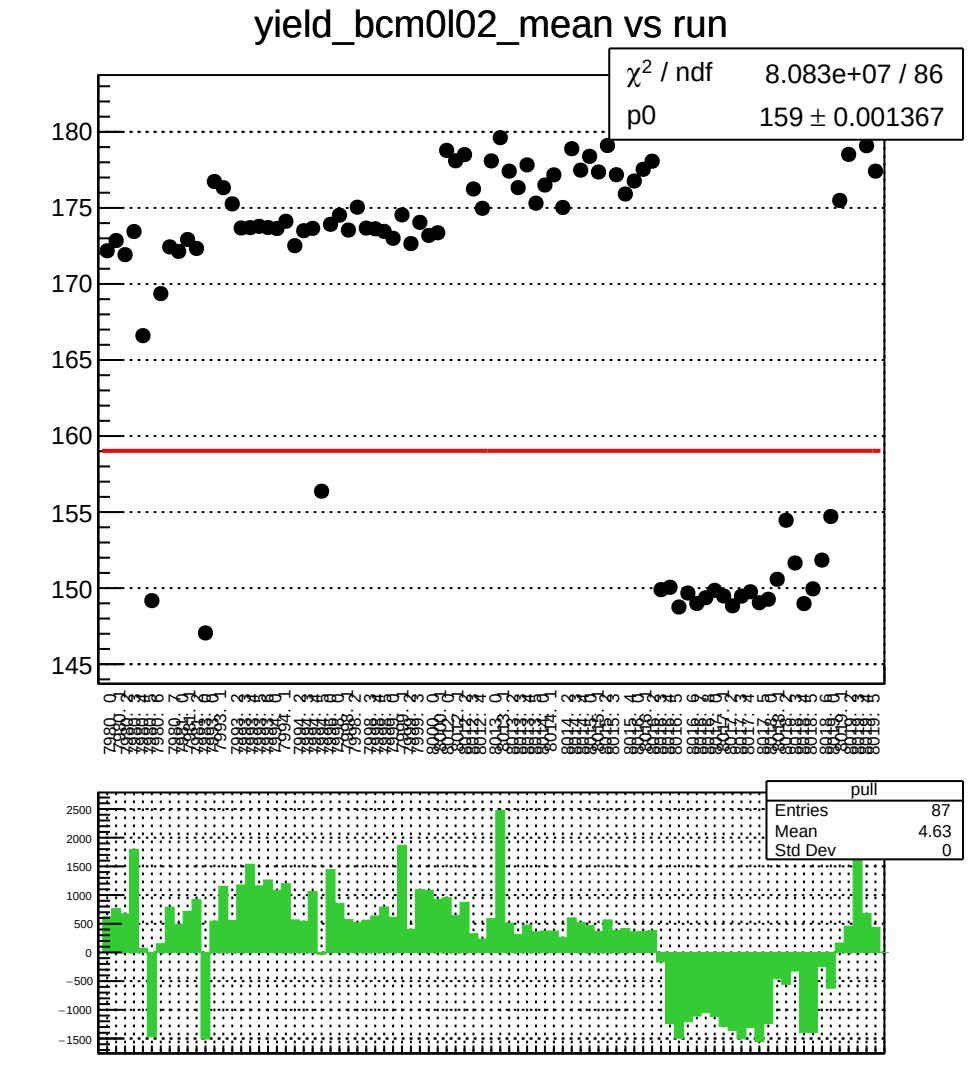

pull1D
Entries 87
Mean 3.657
Std Dev 3.025
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

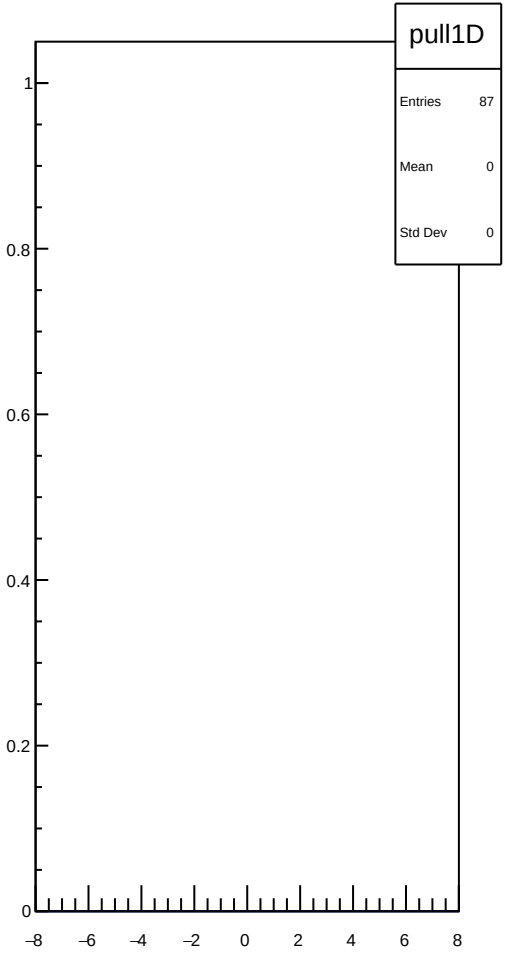

yield_cav4cQ_rms vs run
χ² / ndf 1.784e+05 / 86
p0 0.688 ± 0.0005469
2.5
2
1.5
1
0.5

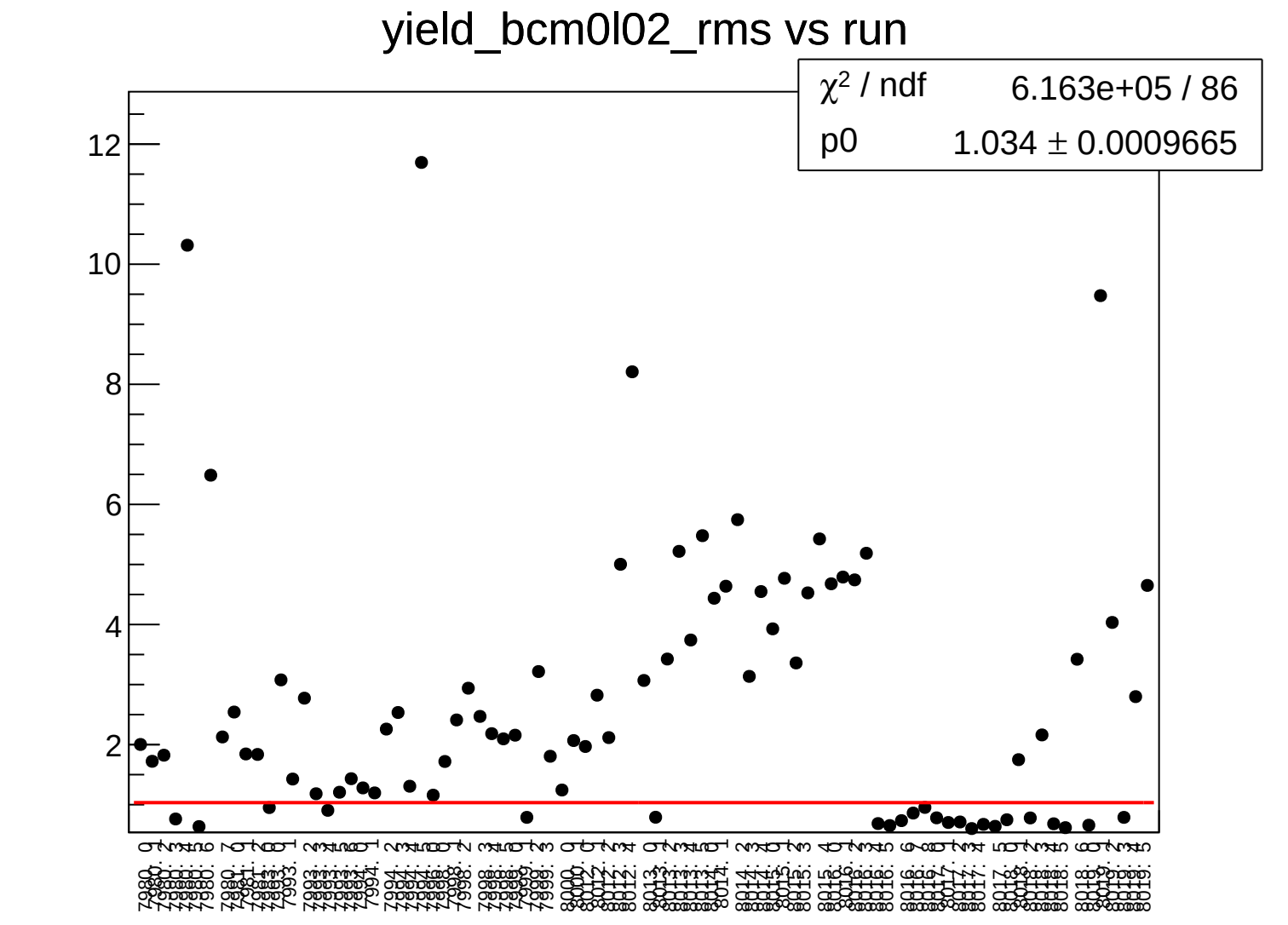

yield_cav4dQ_mean vs run
χ² / ndf 4.79e+05 / 86
p0 145.2 ± 0.0006298
146
145.5
145
144.5
144
143.5
pull
Entries 87
Mean 748.9
Std Dev 0
100
0
−100
−200
−300
−400

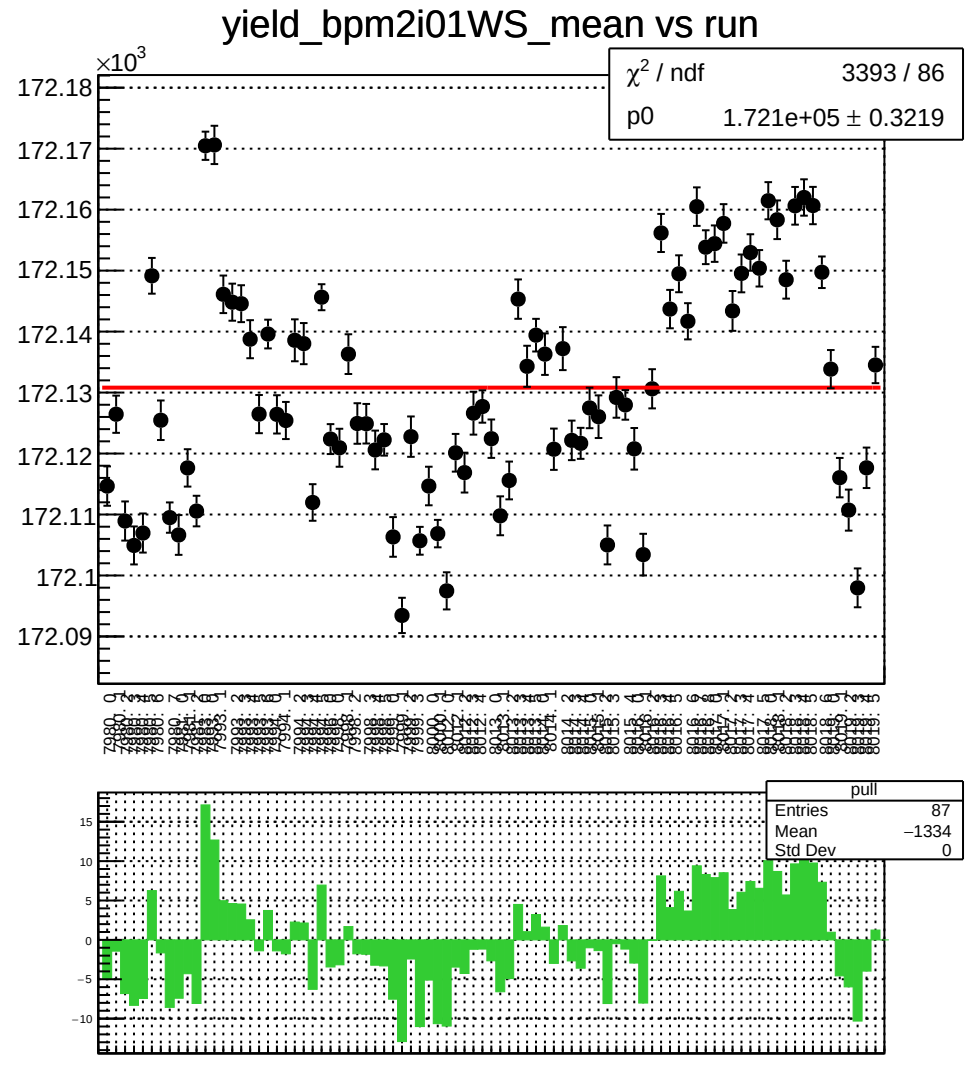

pull1D
Entries 87
Mean 1.579
Std Dev 4.26
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

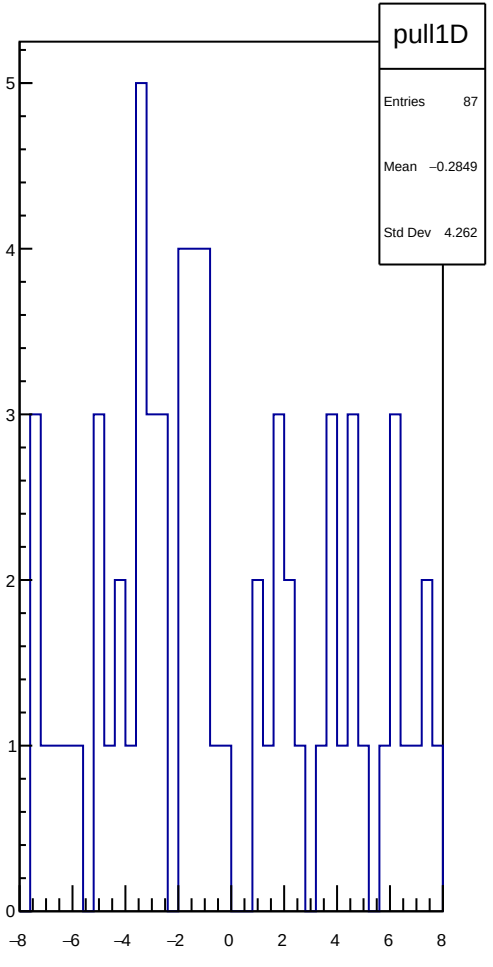

yield_cav4dQ_rms vs run
χ² / ndf 3.709e+04 / 86
p0 0.5847 ± 0.0004453
2.5
2
1.5
1
0.5

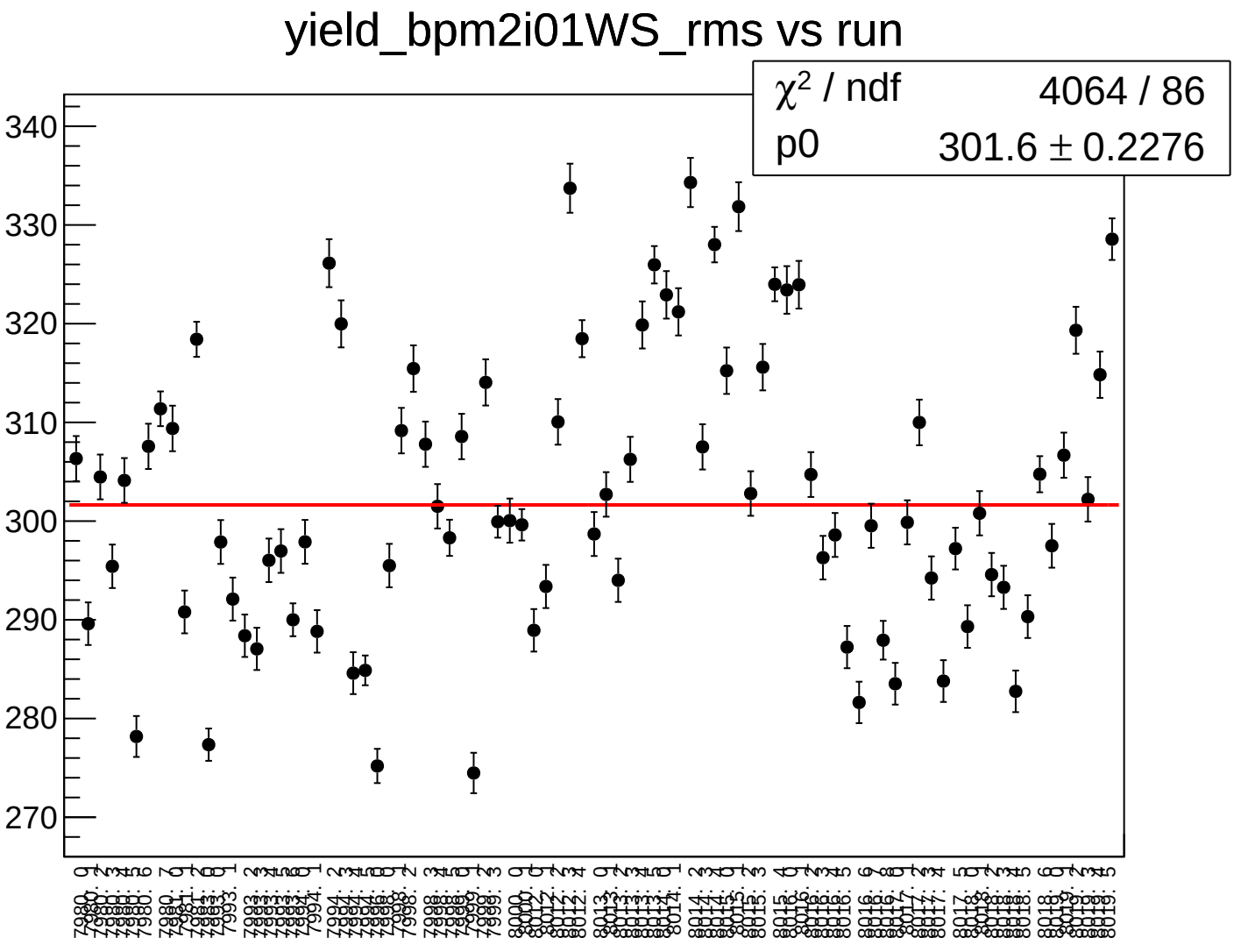

yield_bcm0l02_mean vs run
χ² / ndf 8.083e+07 / 86
p0 159 ± 0.001367
180
175
170
165
160
155
150
145
pull
Entries 87
Mean 4.63
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000
−1500

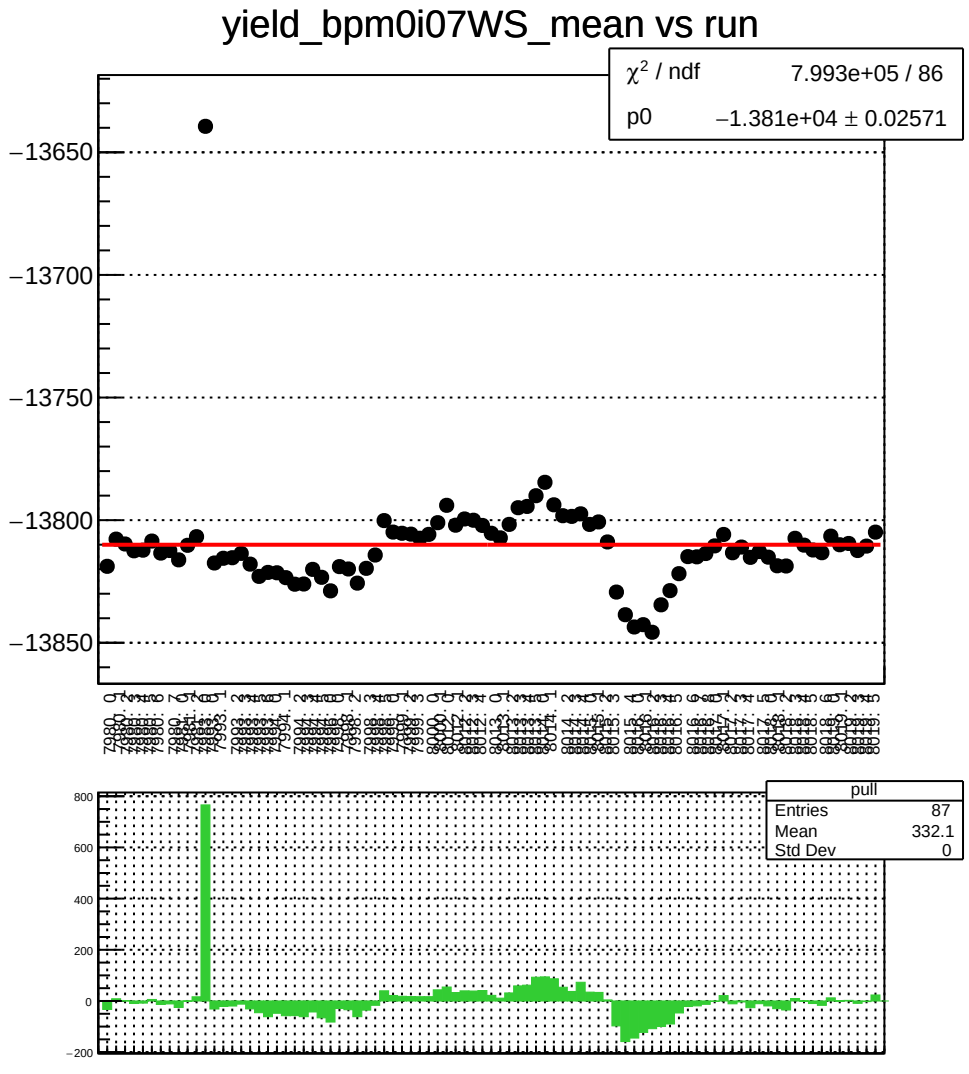

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

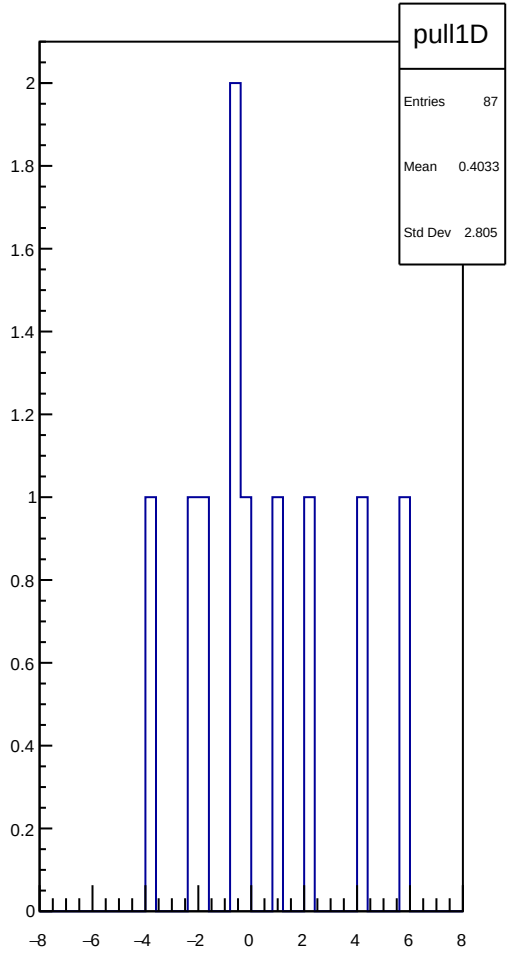

yield_bcm0l02_rms vs run
χ² / ndf 6.163e+05 / 86
p0 1.034 ± 0.0009665
12
10
8
6
4
2

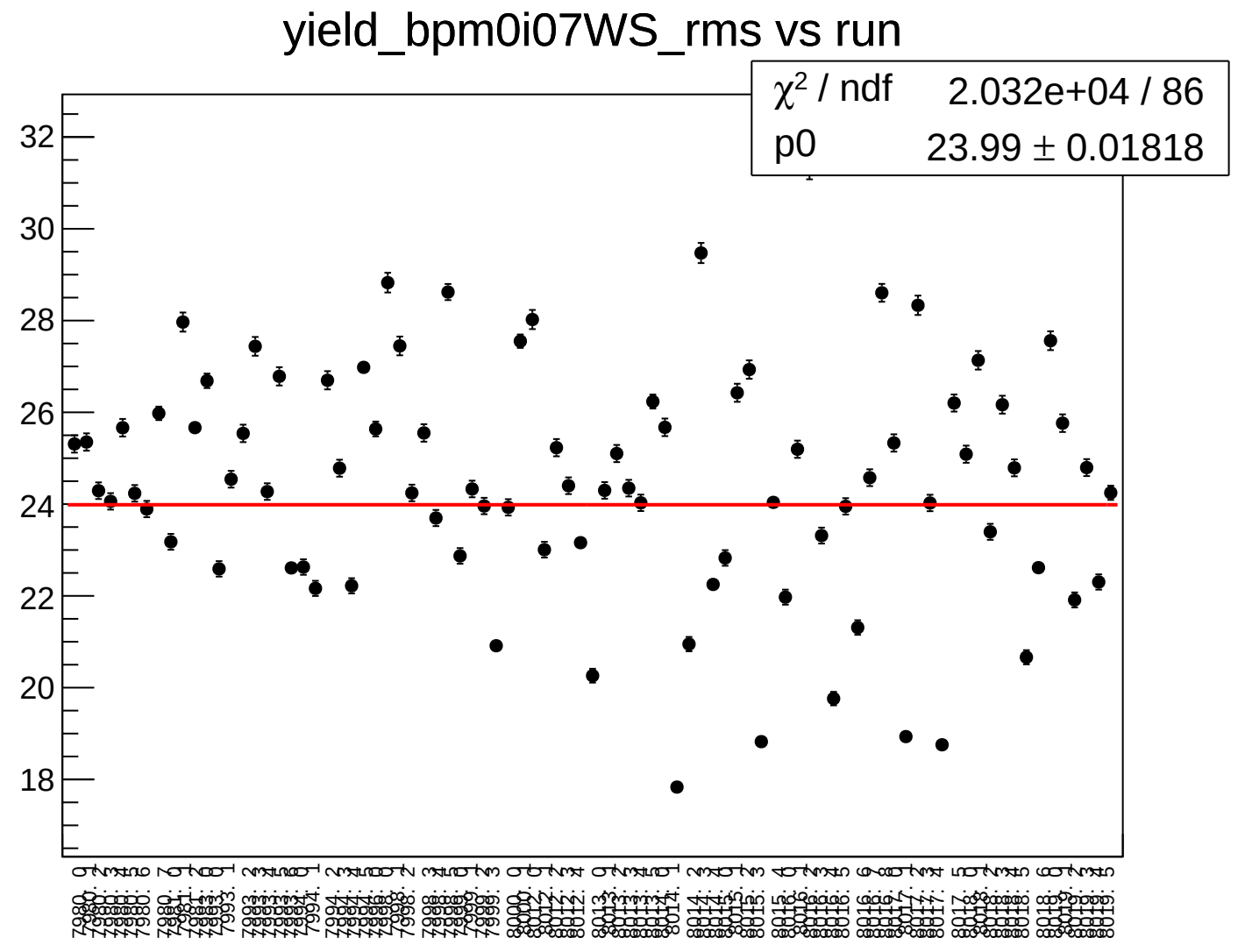

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3393 / 86
p0 1.721e+05 ± 0.3219
172.18
172.17
172.16
172.15
172.14
172.13
172.12
172.11
172.1
172.09
pull
Entries 87
Mean −1334
Std Dev 0
15
10
5
0
−5
−10

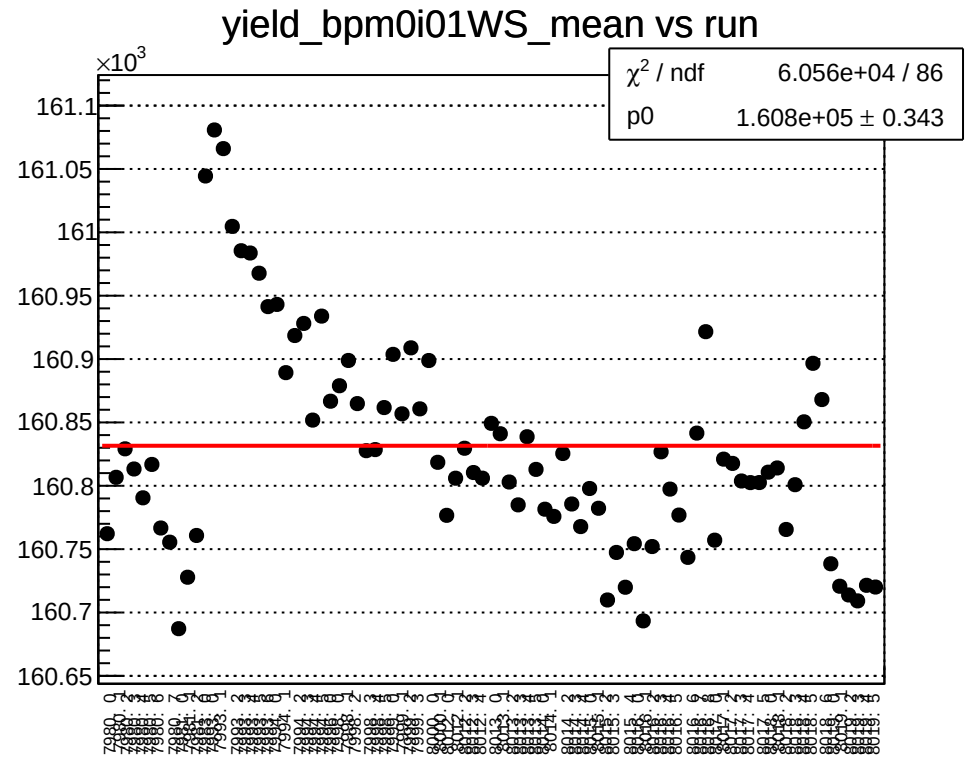

pull1D
Entries 87
Mean −0.2849
Std Dev 4.262
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

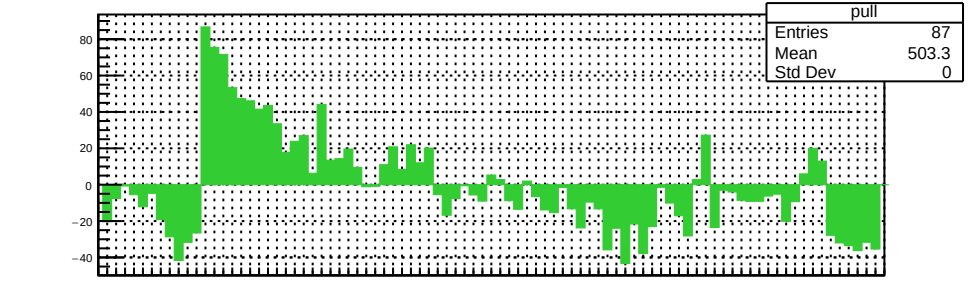

yield_bpm2i01WS_rms vs run
χ² / ndf 4064 / 86
p0 301.6 ± 0.2276
340
330
320
310
300
290
280
270

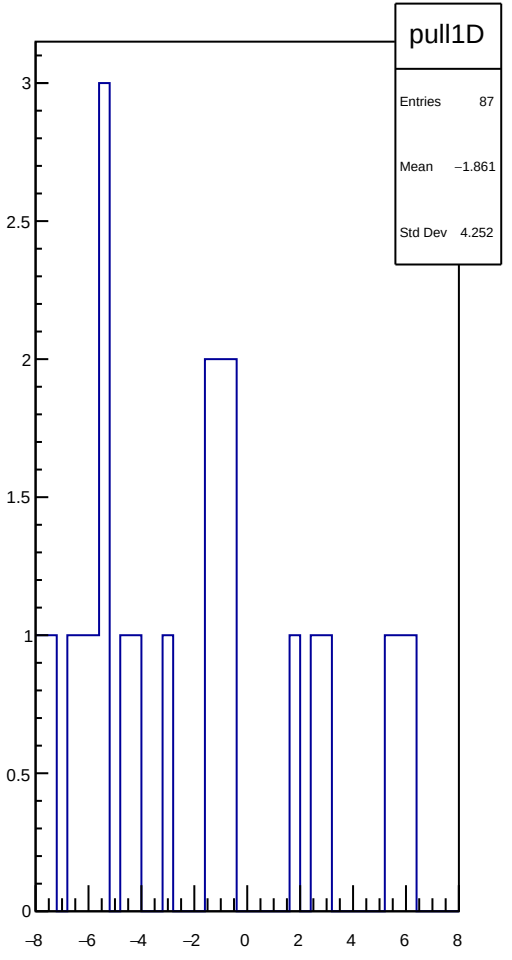

yield_bpm0i07WS_mean vs run
χ² / ndf 7.993e+05 / 86
p0 −1.381e+04 ± 0.02571
−13650
−13700
−13750
−13800
−13850
pull
Entries 87
Mean 332.1
Std Dev 0
800
600
400
200
0
−200

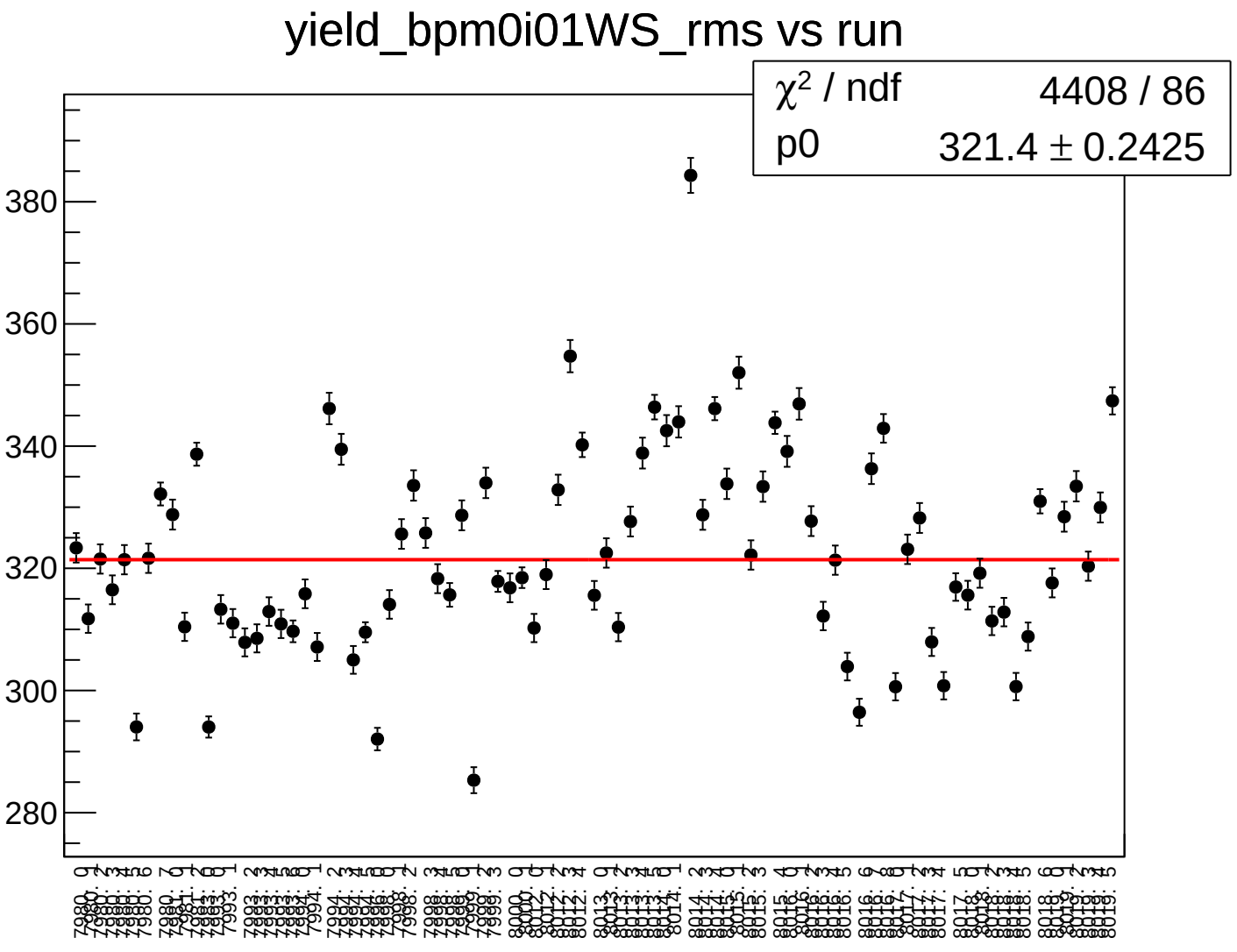

pull1D
Entries 87
Mean 0.4033
Std Dev 2.805
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

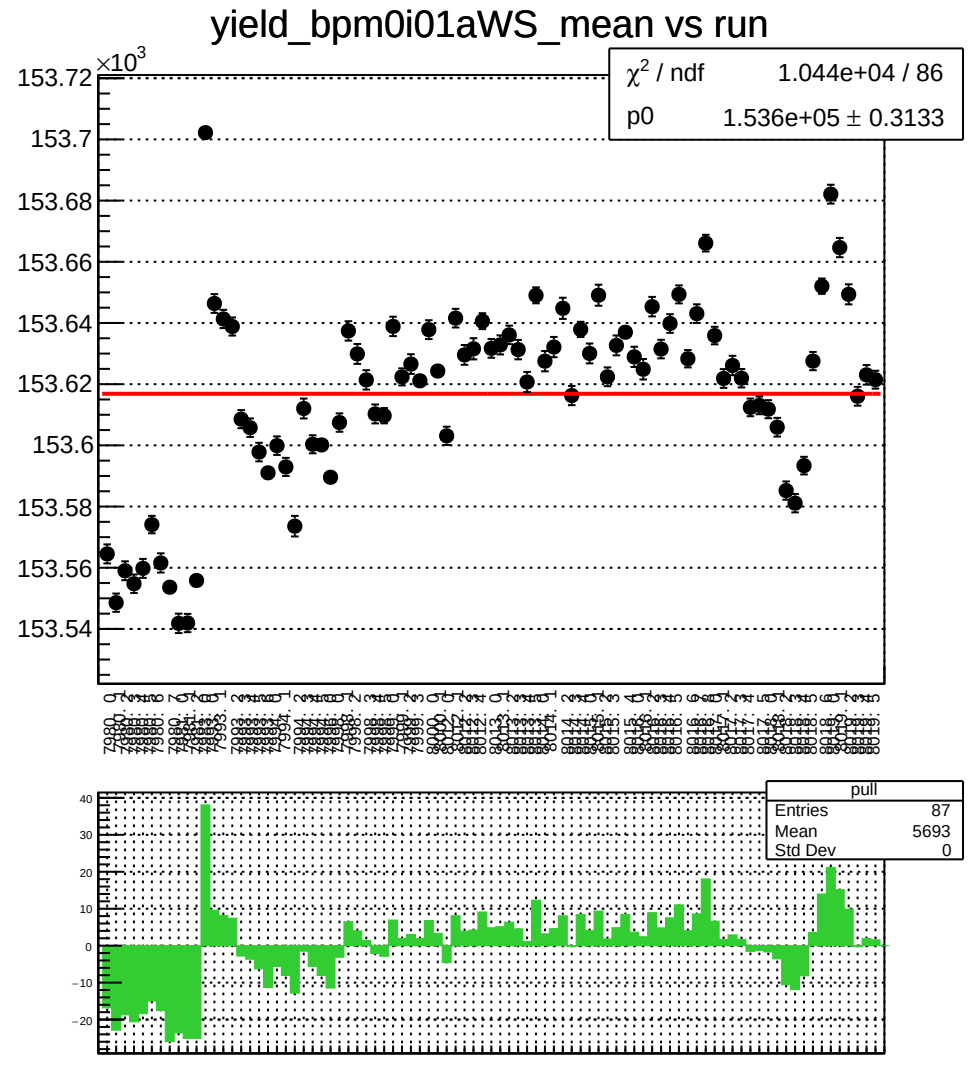

yield_bpm0i07WS_rms vs run
χ² / ndf 2.032e+04 / 86
p0 23.99 ± 0.01818
32
30
28
26
24
22
20
18

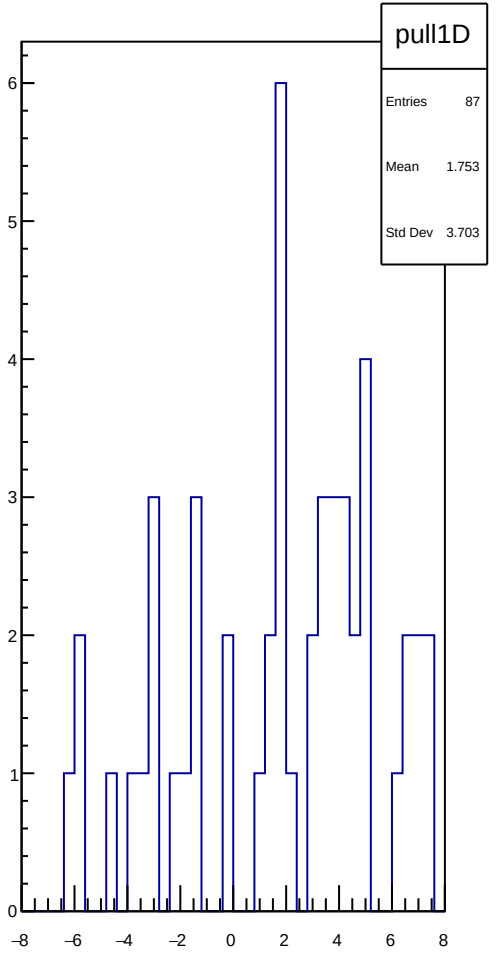

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 6.056e+04 / 86
p0 1.608e+05 ± 0.343
161.1
161.05
161
160.95
160.9
160.85
160.8
160.75
160.7
160.65

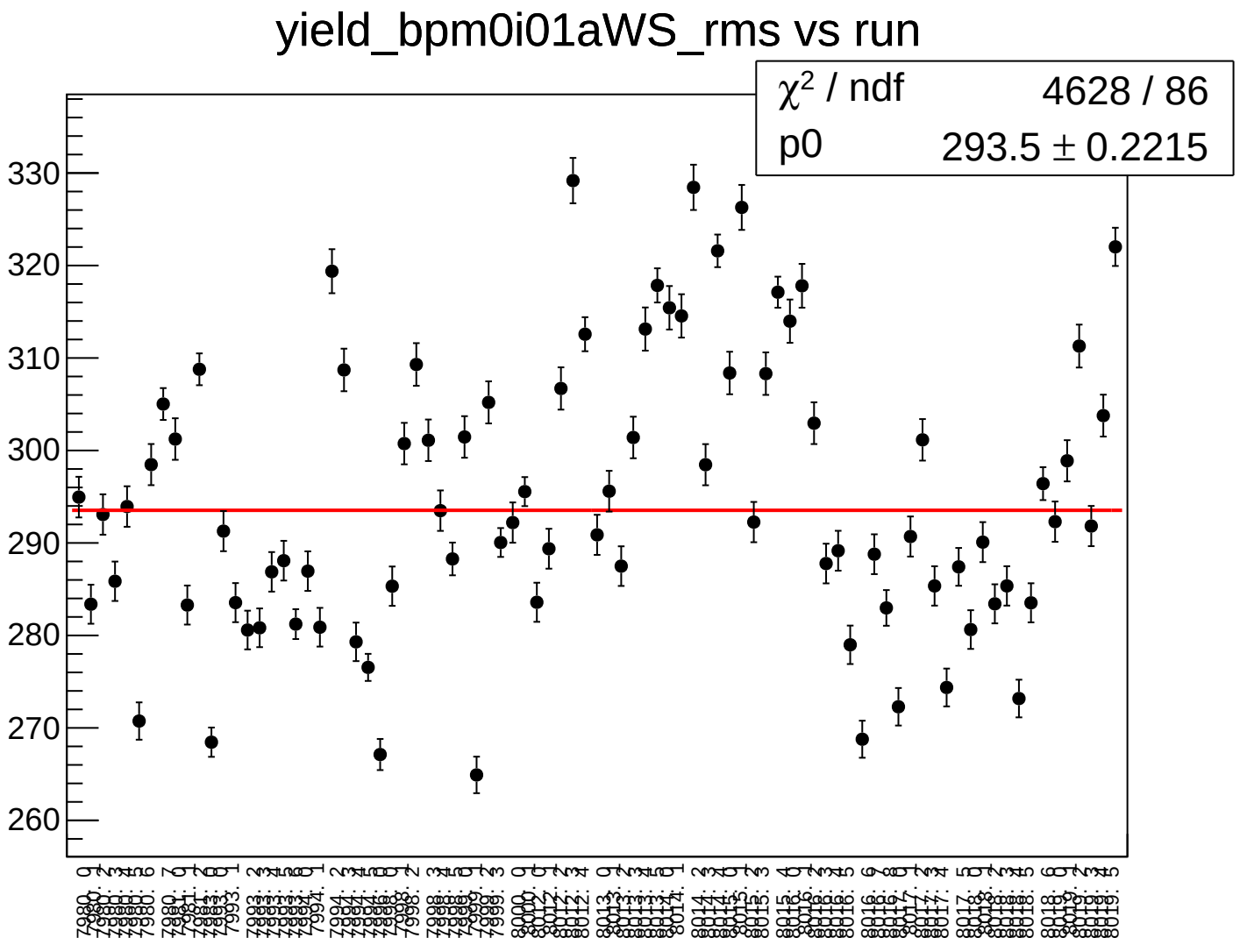

pull
Entries 87
Mean 503.3
Std Dev 0
80
60
40
20
0
−20
−40

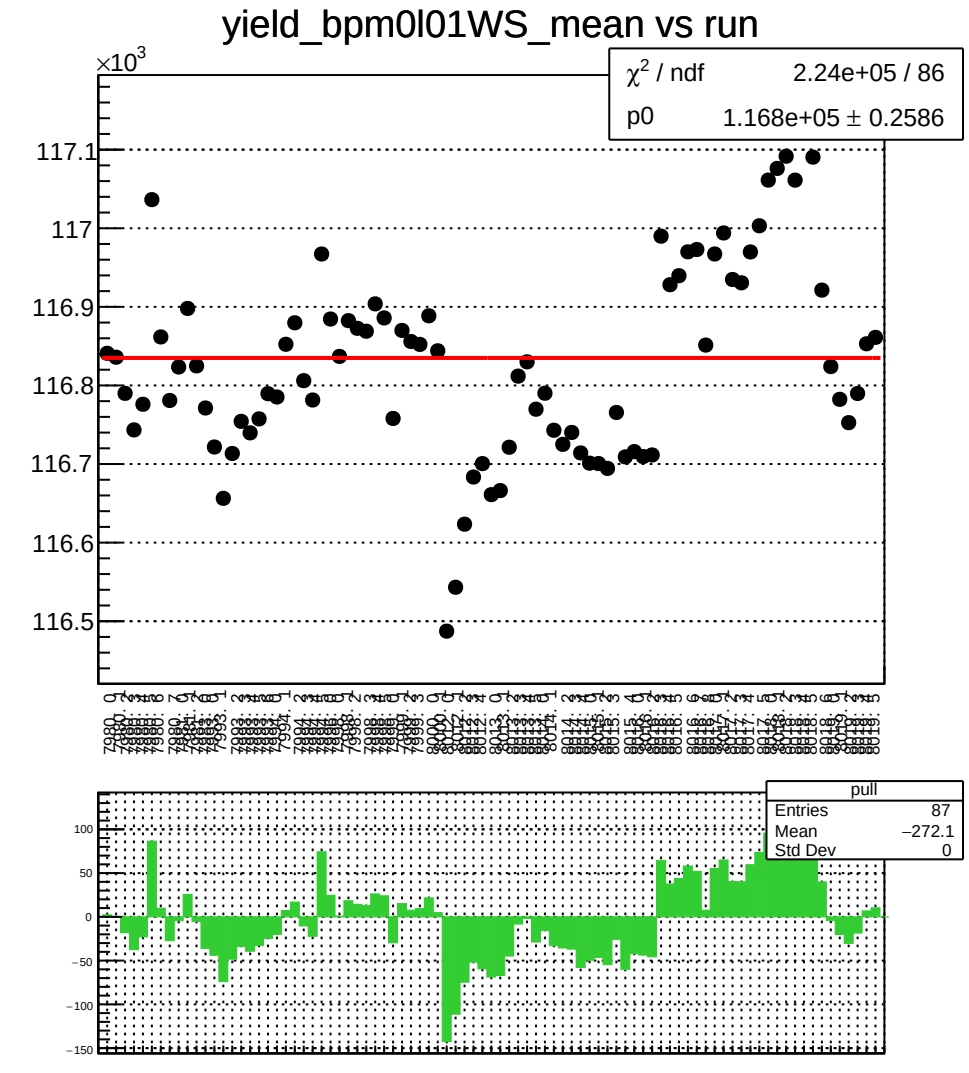

pull1D
Entries 87
Mean −1.861
Std Dev 4.252
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

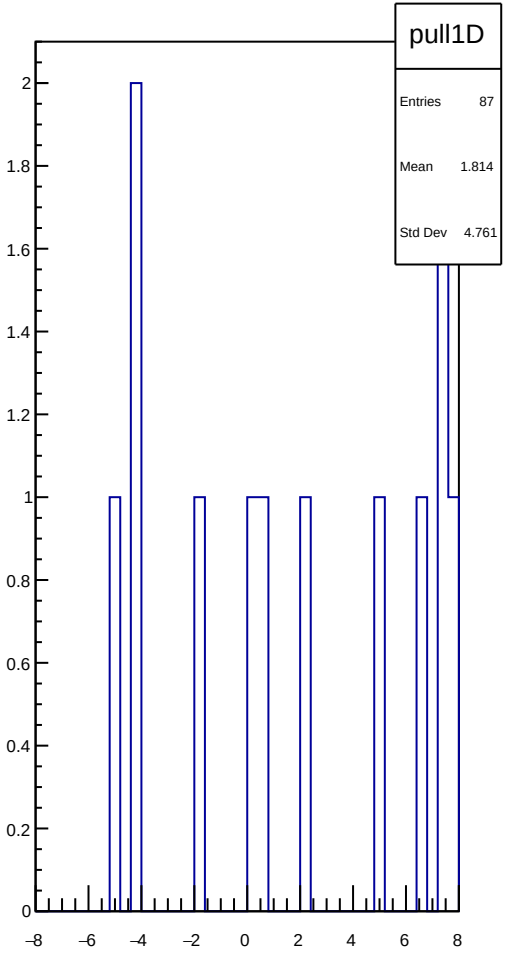

yield_bpm0i01WS_rms vs run
χ² / ndf 4408 / 86
p0 321.4 ± 0.2425
380
360
340
320
300
280

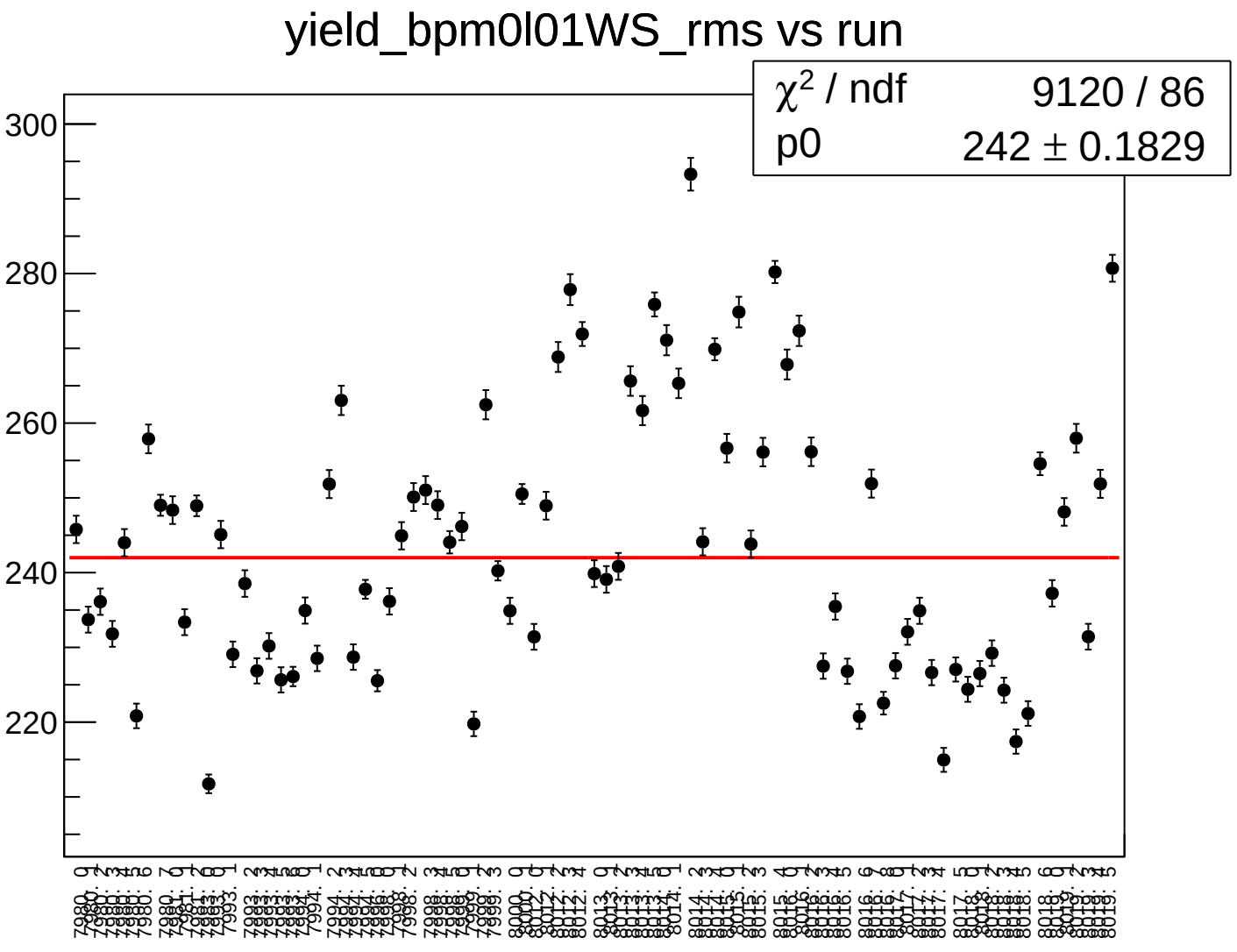

yield_bpm0i01aWS_mean vs run
χ² / ndf 1.044e+04 / 86
p0 1.536e+05 ± 0.3133
×10³
153.72
153.7
153.68
153.66
153.64
153.62
153.6
153.58
153.56
153.54
pull
Entries 87
Mean 5693
Std Dev 0
40
30
20
10
0
−10
−20

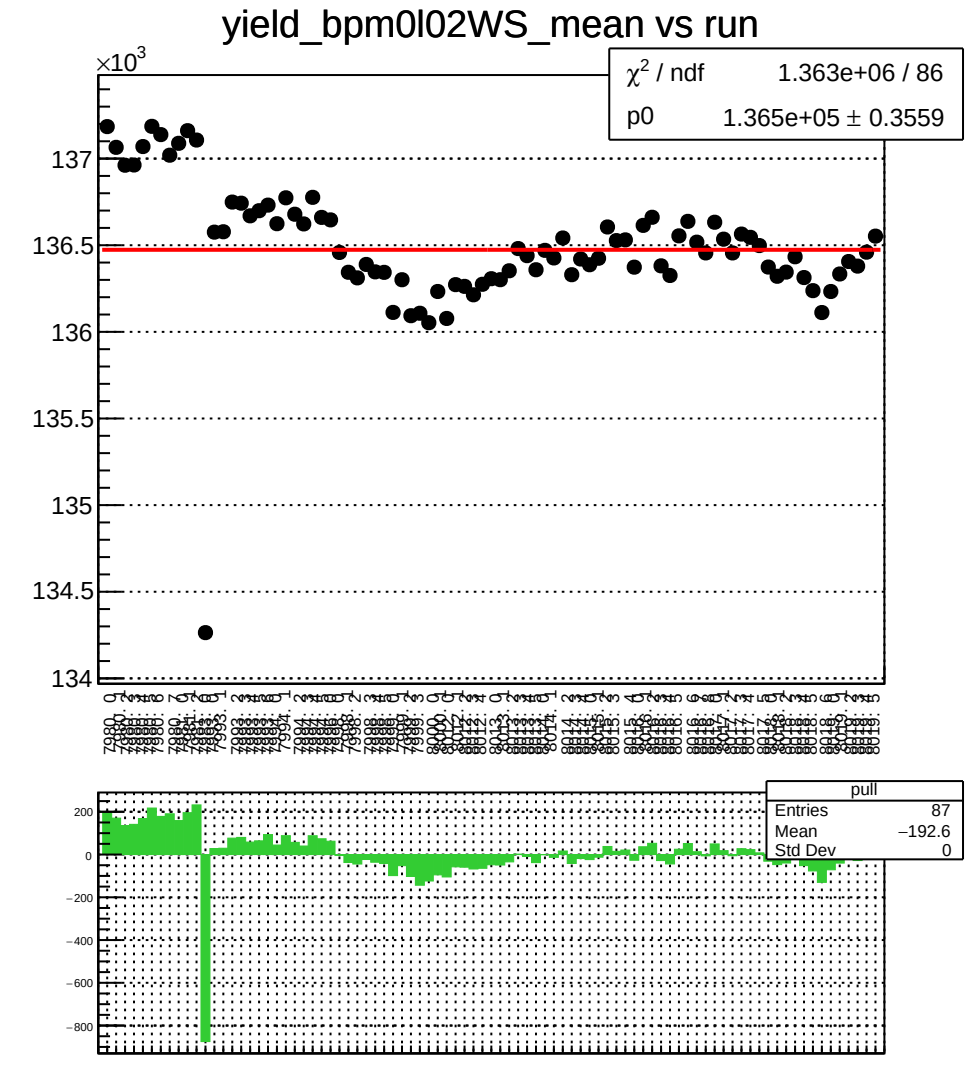

pull1D
Entries 87
Mean 1.753
Std Dev 3.703
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

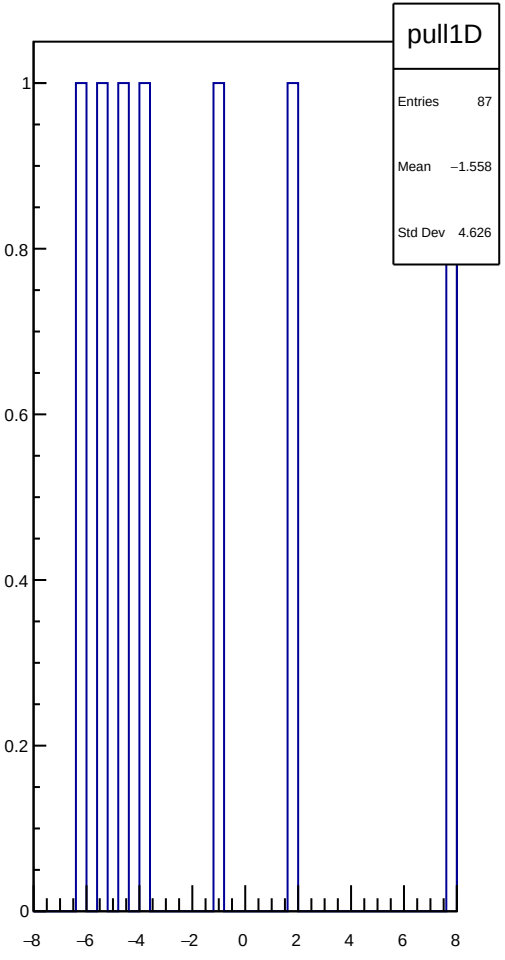

yield_bpm0i01aWS_rms vs run
χ² / ndf 4628 / 86
p0 293.5 ± 0.2215
330
320
310
300
290
280
270
260

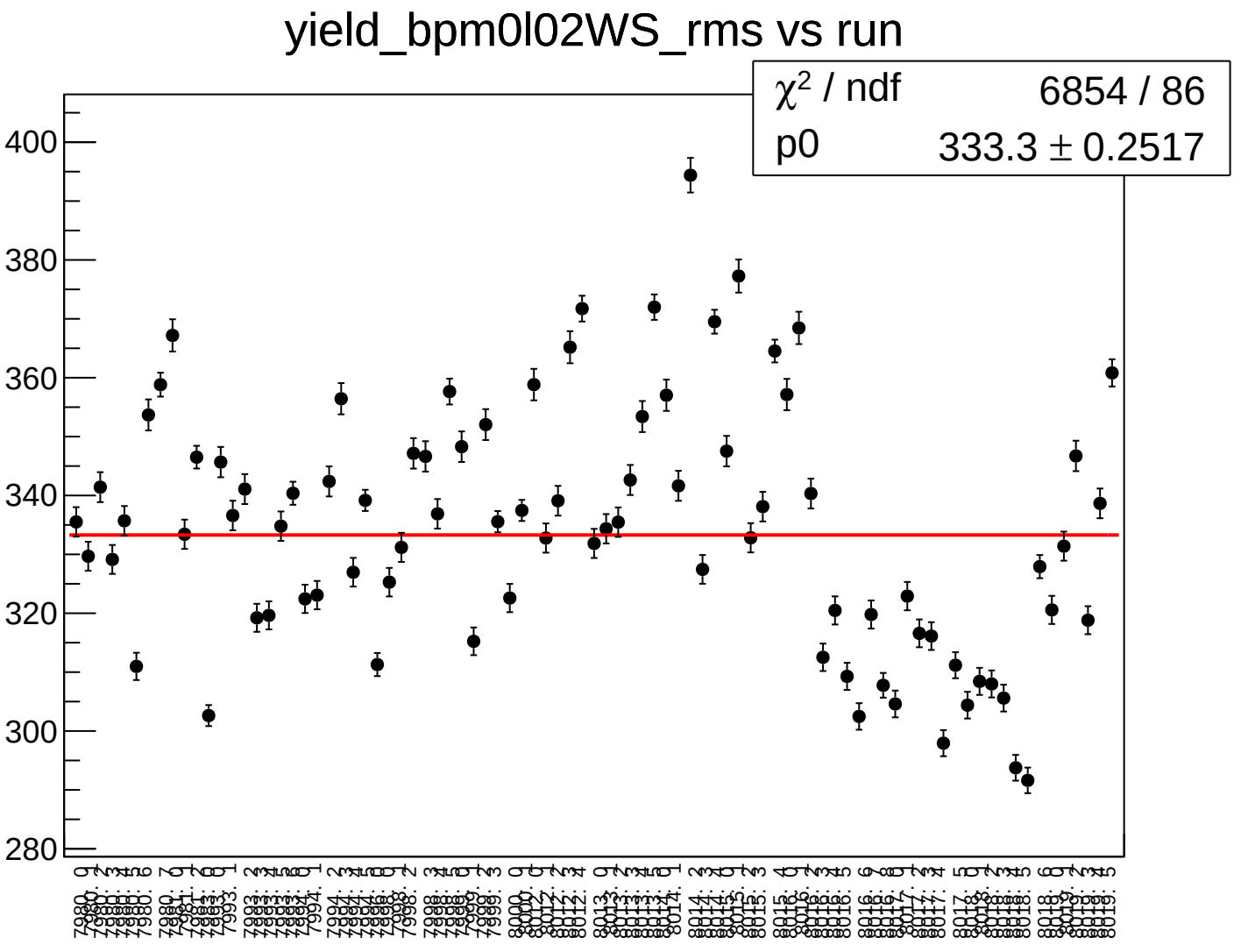

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.24e+05 / 86
p0 1.168e+05 ± 0.2586
117.1
117
116.9
116.8
116.7
116.6
116.5
pull
Entries 87
Mean −272.1
Std Dev 0
100
50
0
−50
−100
−150

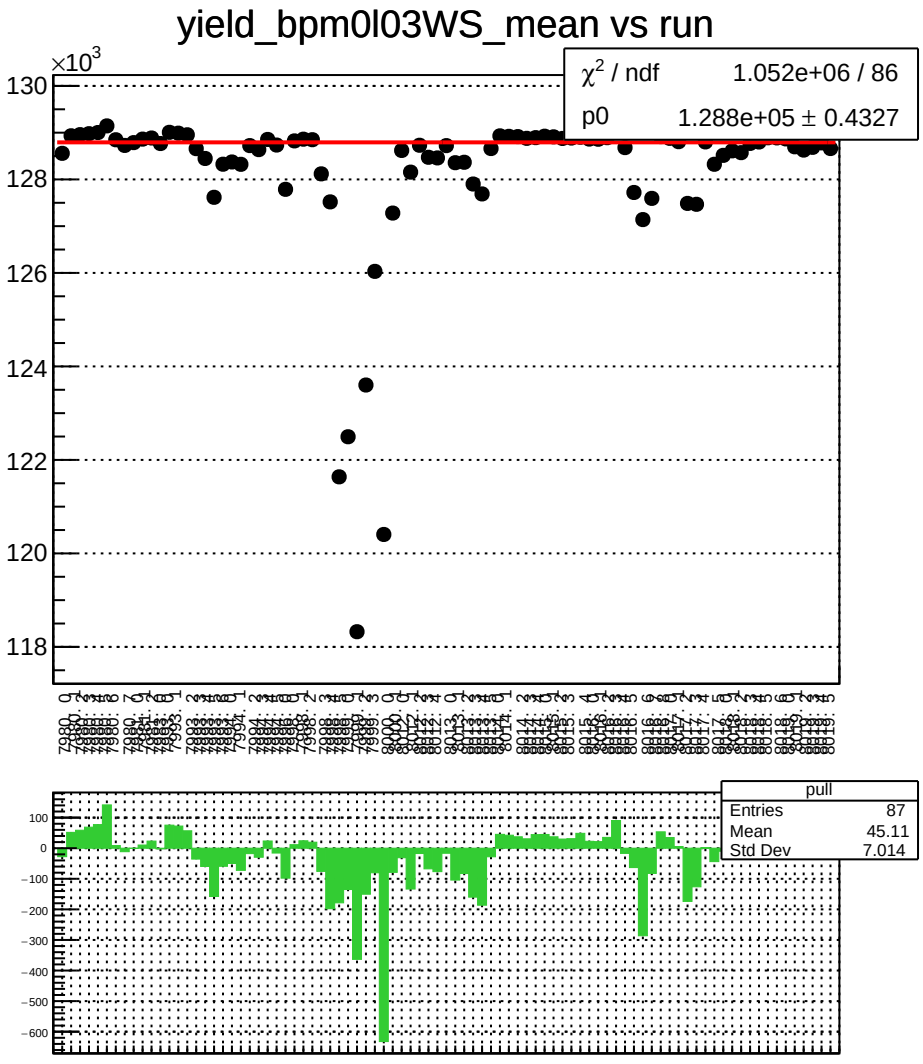

pull1D
Entries 87
Mean 1.814
Std Dev 4.761
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

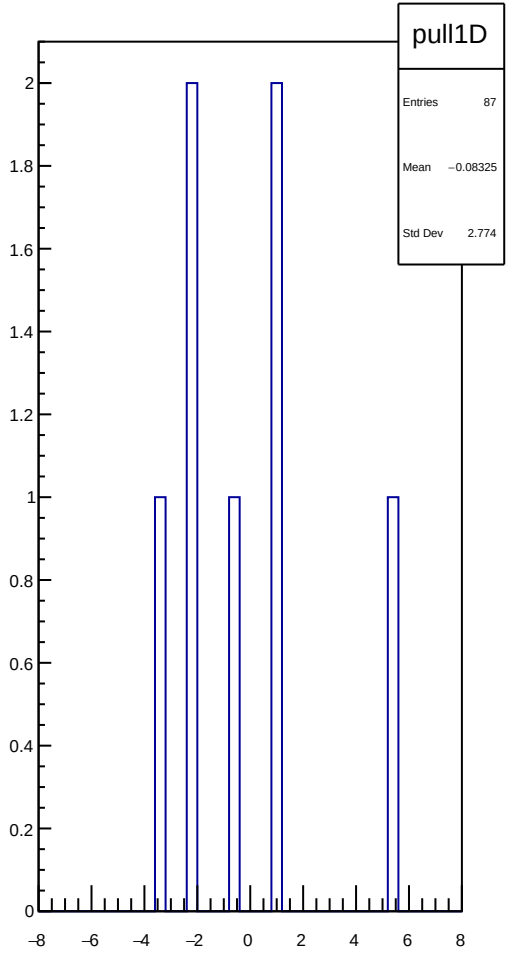

yield_bpm0l01WS_rms vs run
χ² / ndf 9120 / 86
p0 242 ± 0.1829
300
280
260
240
220

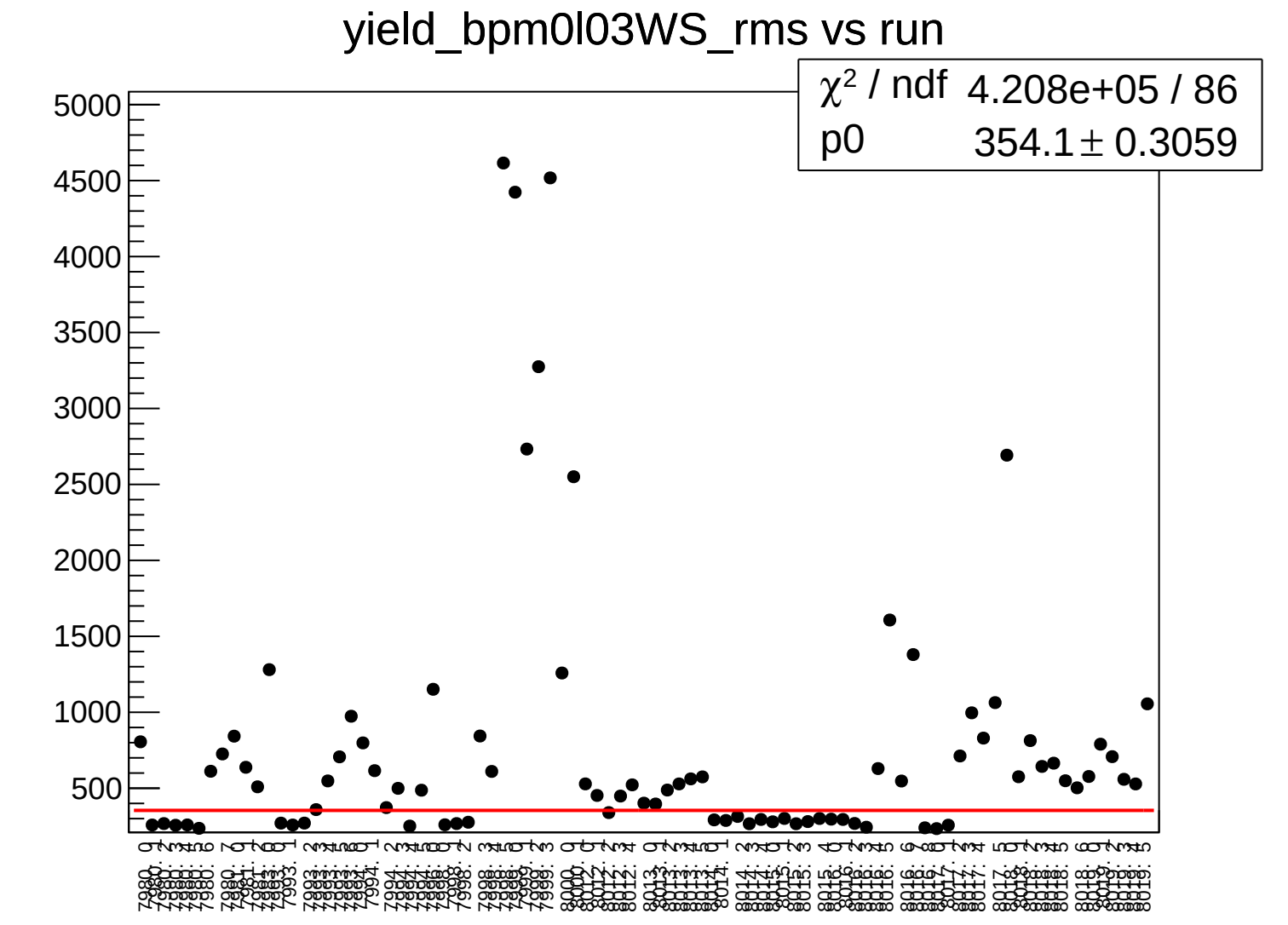

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.363e+06 / 86
p0 1.365e+05 ± 0.3559
137
136.5
136
135.5
135
134.5
134
pull
Entries 87
Mean −192.6
Std Dev 0
200
0
−200
−400
−600
−800

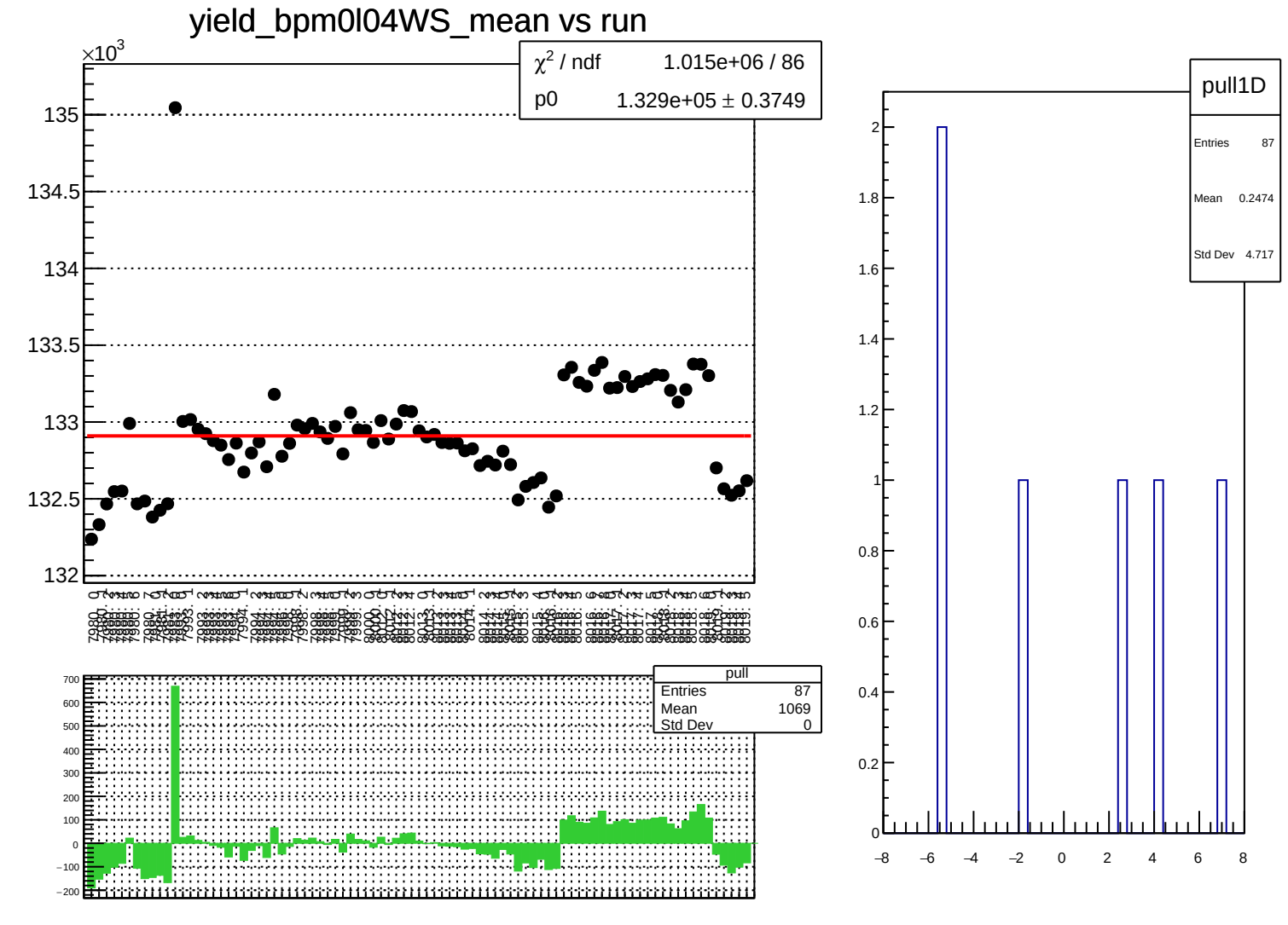

pull1D
Entries 87
Mean −1.558
Std Dev 4.626
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

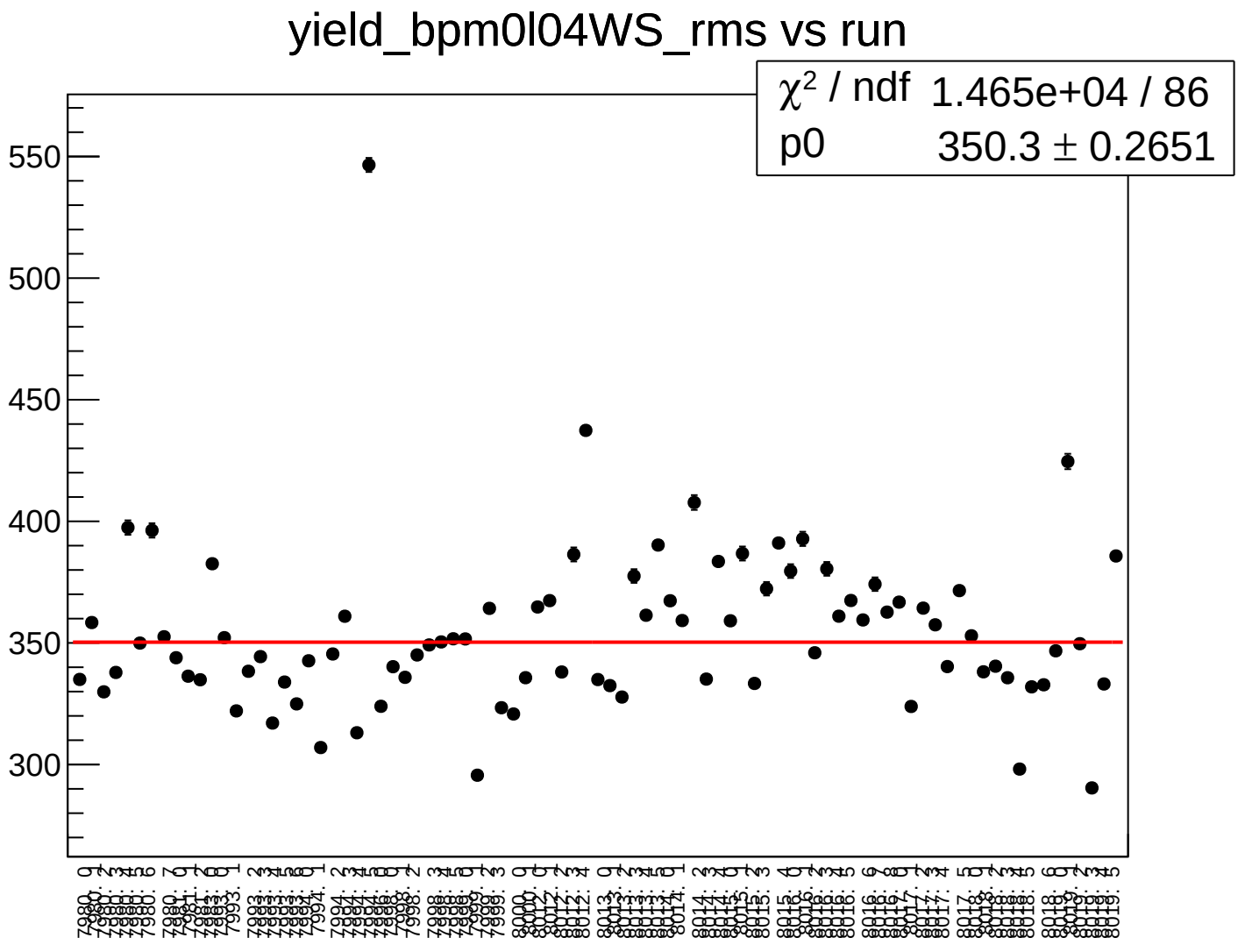

yield_bpm0l02WS_rms vs run
χ² / ndf 6854 / 86
p0 333.3 ± 0.2517
400
380
360
340
320
300
280

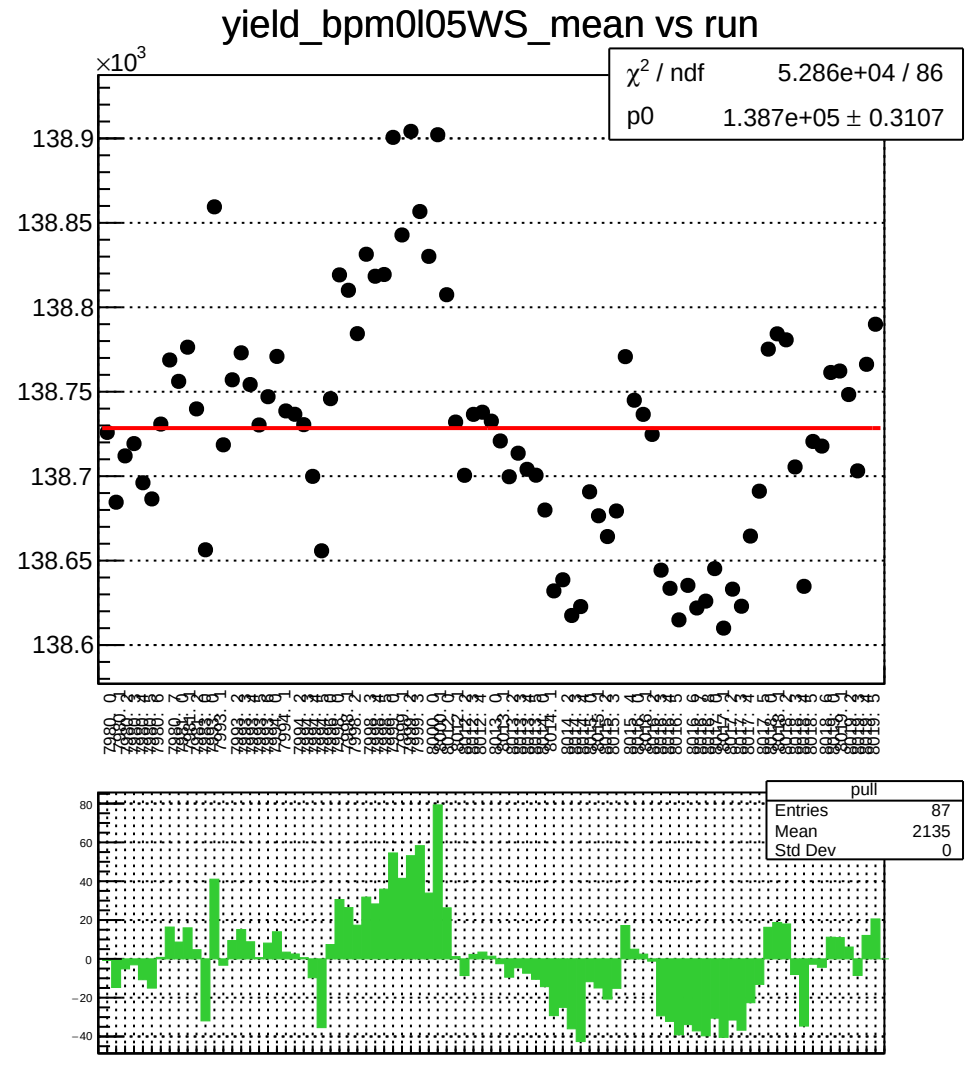

yield_bpm0l03WS_mean vs run
×10^3
130
128
126
124
122
120
118
χ² / ndf 1.052e+06 / 86
p0 1.288e+05 ± 0.4327
pull
Entries 87
Mean 45.11
Std Dev 7.014
100
0
−100
−200
−300
−400
−500
−600

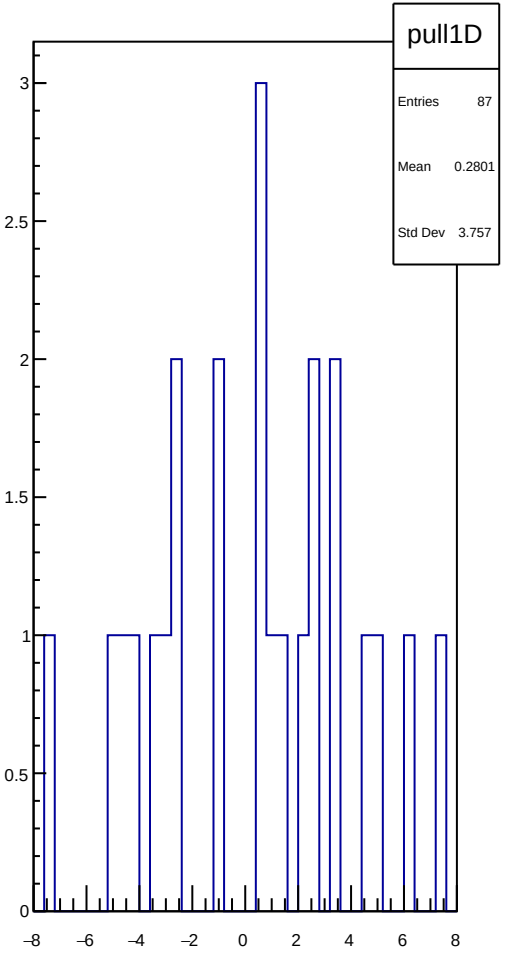

pull1D
Entries 87
Mean −0.08325
Std Dev 2.774
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

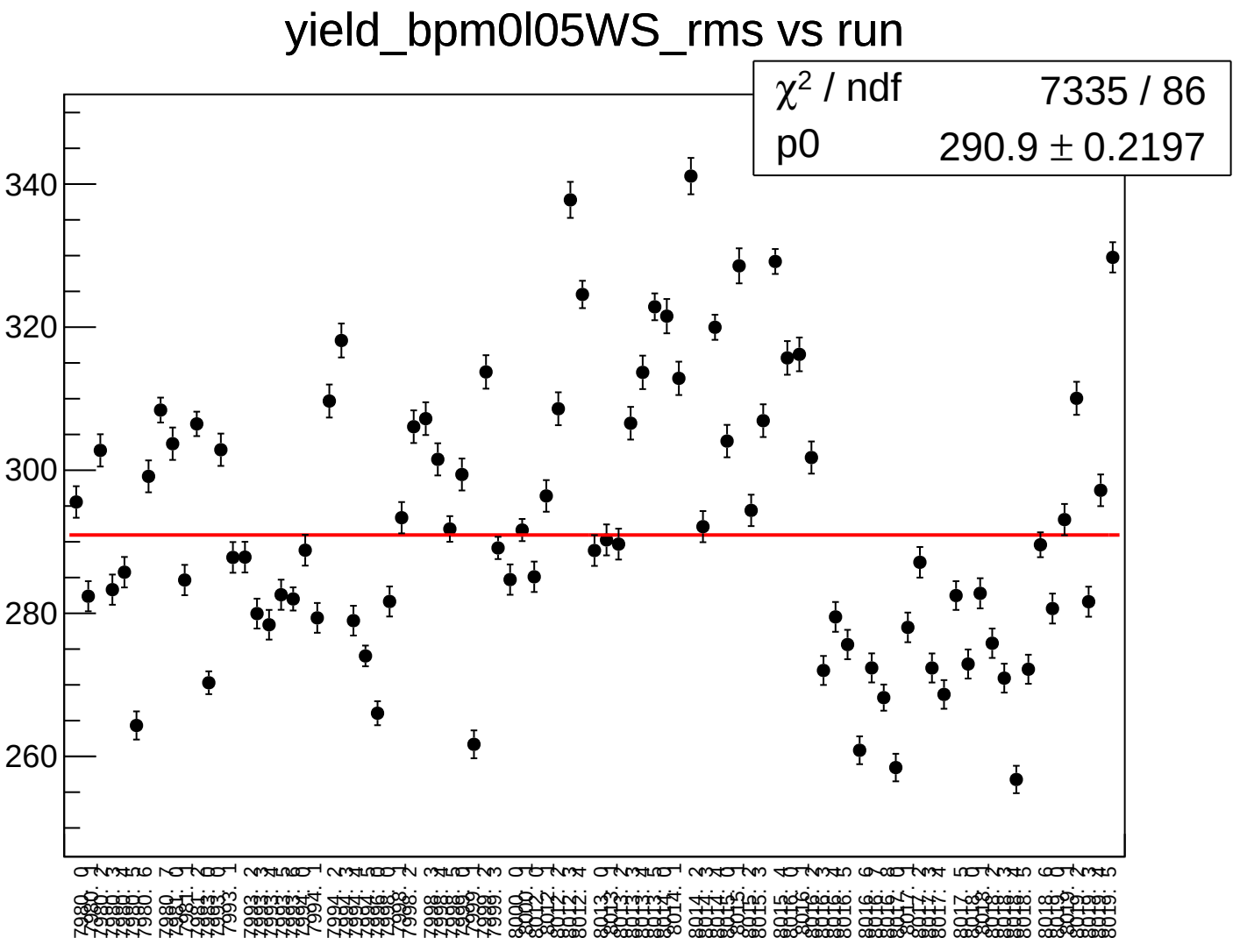

yield_bpm0l03WS_rms vs run
χ² / ndf 4.208e+05 / 86
p0 354.1 ± 0.3059
5000
4500
4000
3500
3000
2500
2000
1500
1000
500

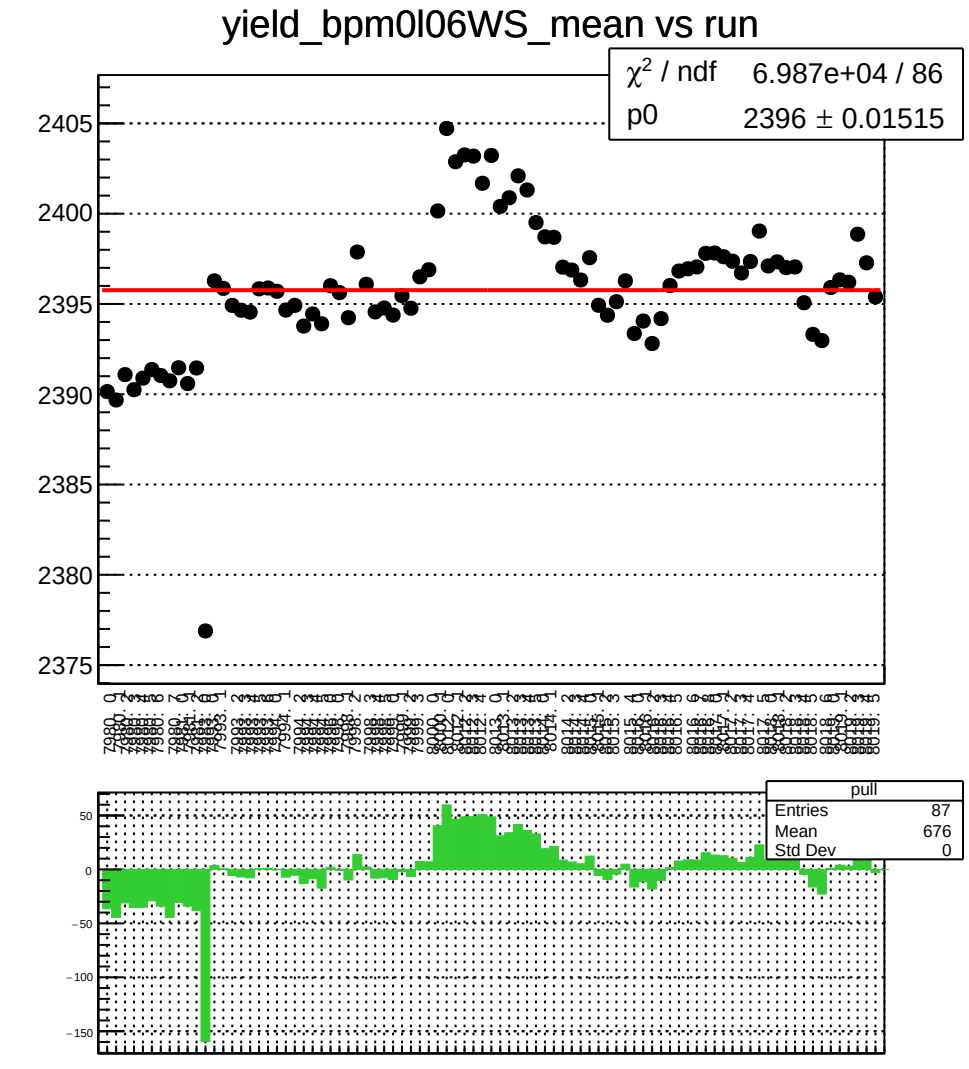

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.015e+06 / 86
p0 1.329e+05 ± 0.3749
135
134.5
134
133.5
133
132.5
132
pull
Entries 87
Mean 1069
Std Dev 0
700
600
500
400
300
200
100
0
−100
−200
pull1D
Entries 87
Mean 0.2474
Std Dev 4.717
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

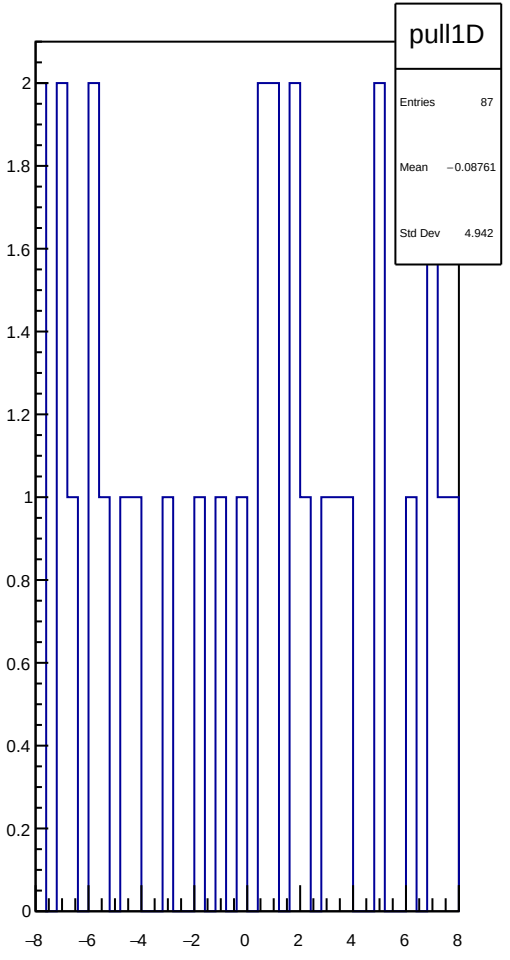

yield_bpm0l04WS_rms vs run
χ² / ndf 1.465e+04 / 86
p0 350.3 ± 0.2651
550
500
450
400
350
300

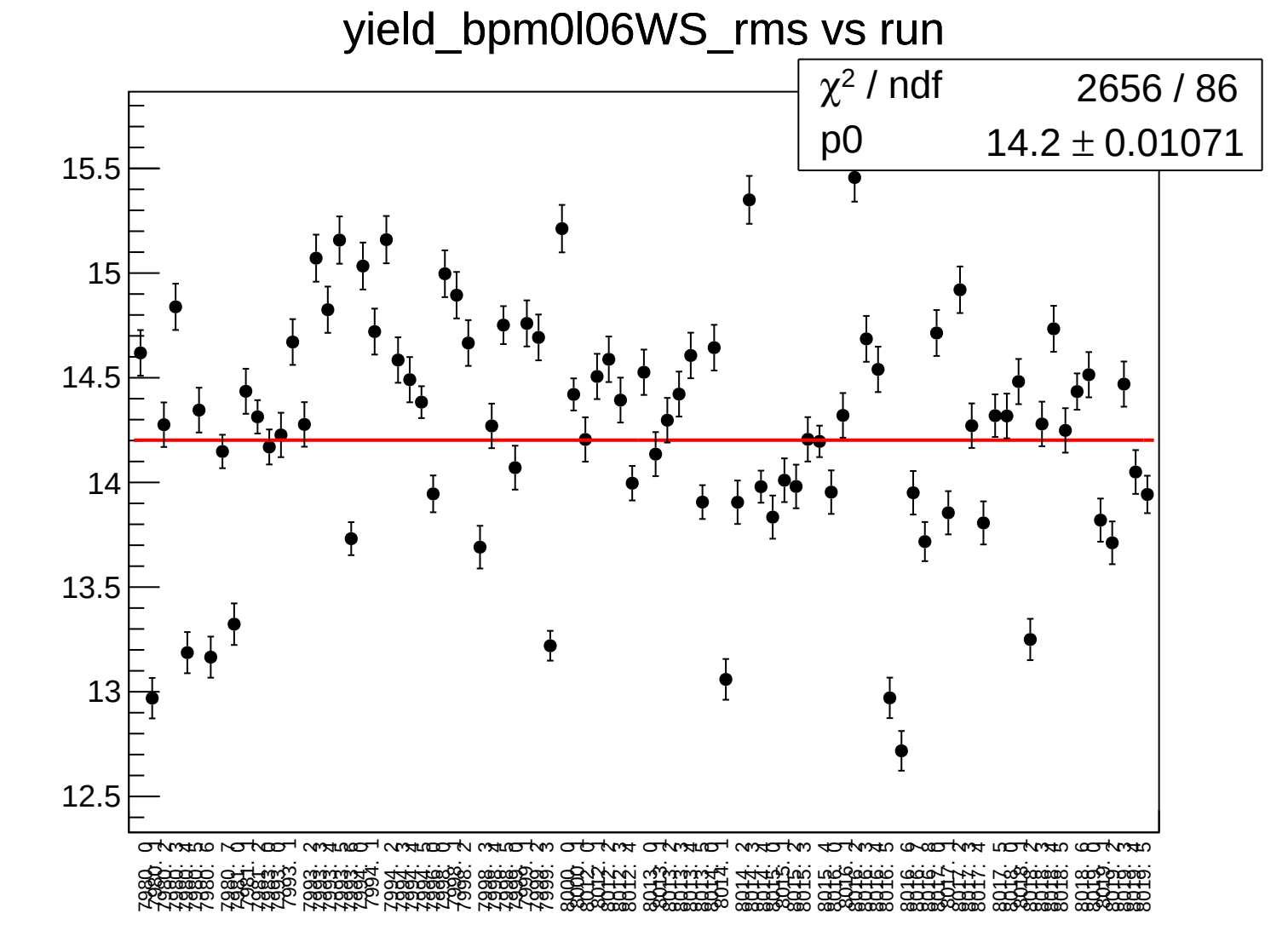

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 5.286e+04 / 86
p0 1.387e+05 ± 0.3107
138.9
138.85
138.8
138.75
138.7
138.65
138.6
pull
Entries 87
Mean 2135
Std Dev 0
80
60
40
20
0
−20
−40

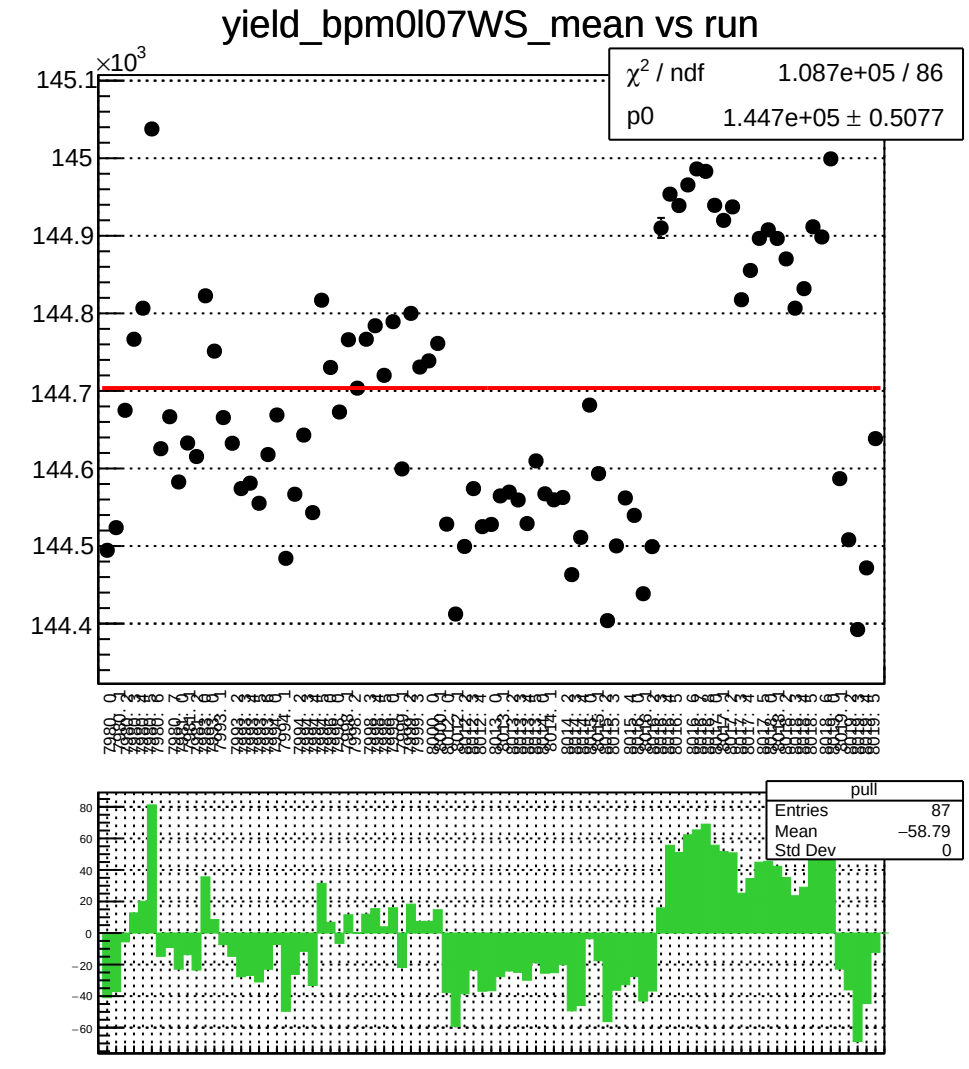

pull1D
Entries 87
Mean 0.2801
Std Dev 3.757
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

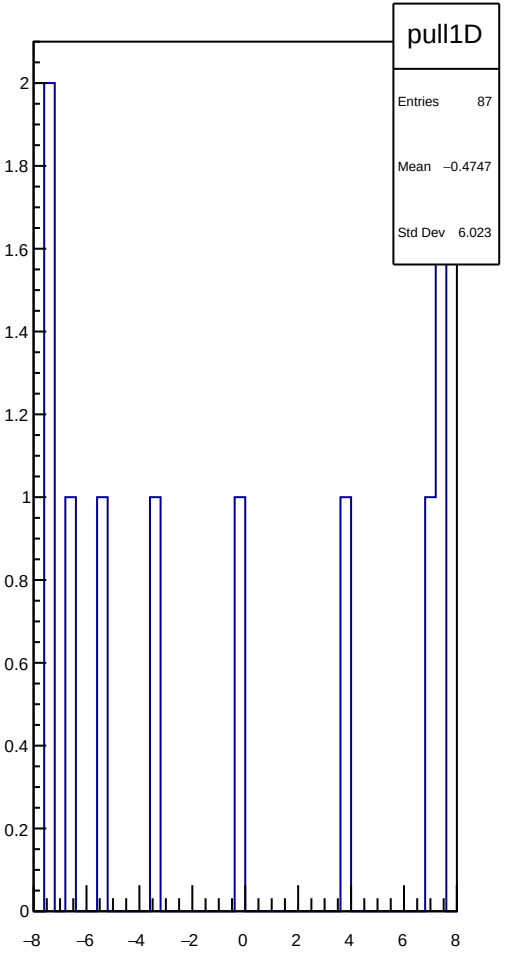

yield_bpm0l05WS_rms vs run
χ² / ndf 7335 / 86
p0 290.9 ± 0.2197
340
320
300
280
260

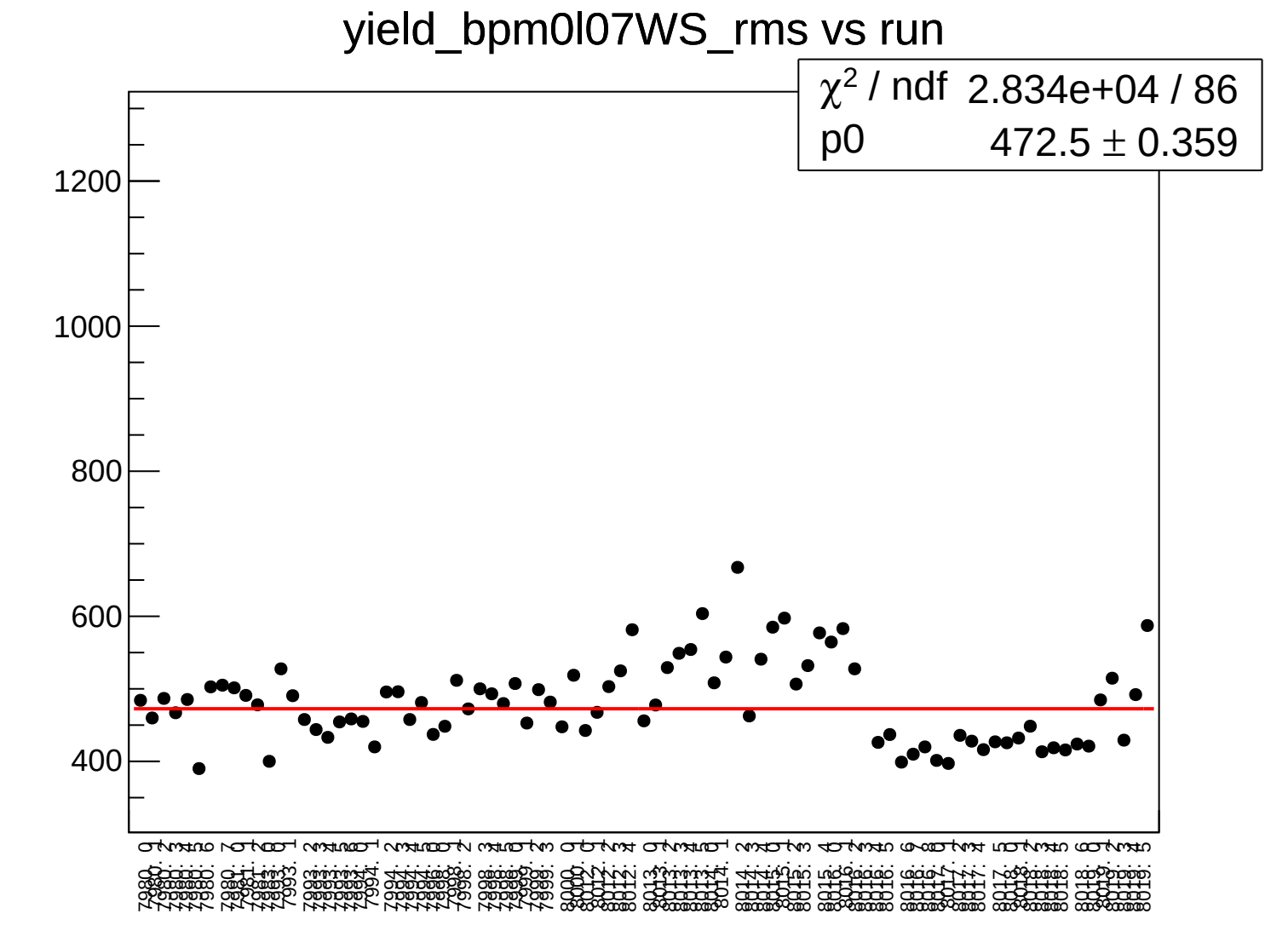

yield_bpm0l06WS_mean vs run
χ² / ndf 6.987e+04 / 86
p0 2396 ± 0.01515
2405
2400
2395
2390
2385
2380
2375
pull
Entries 87
Mean 676
Std Dev 0
50
0
−50
−100
−150

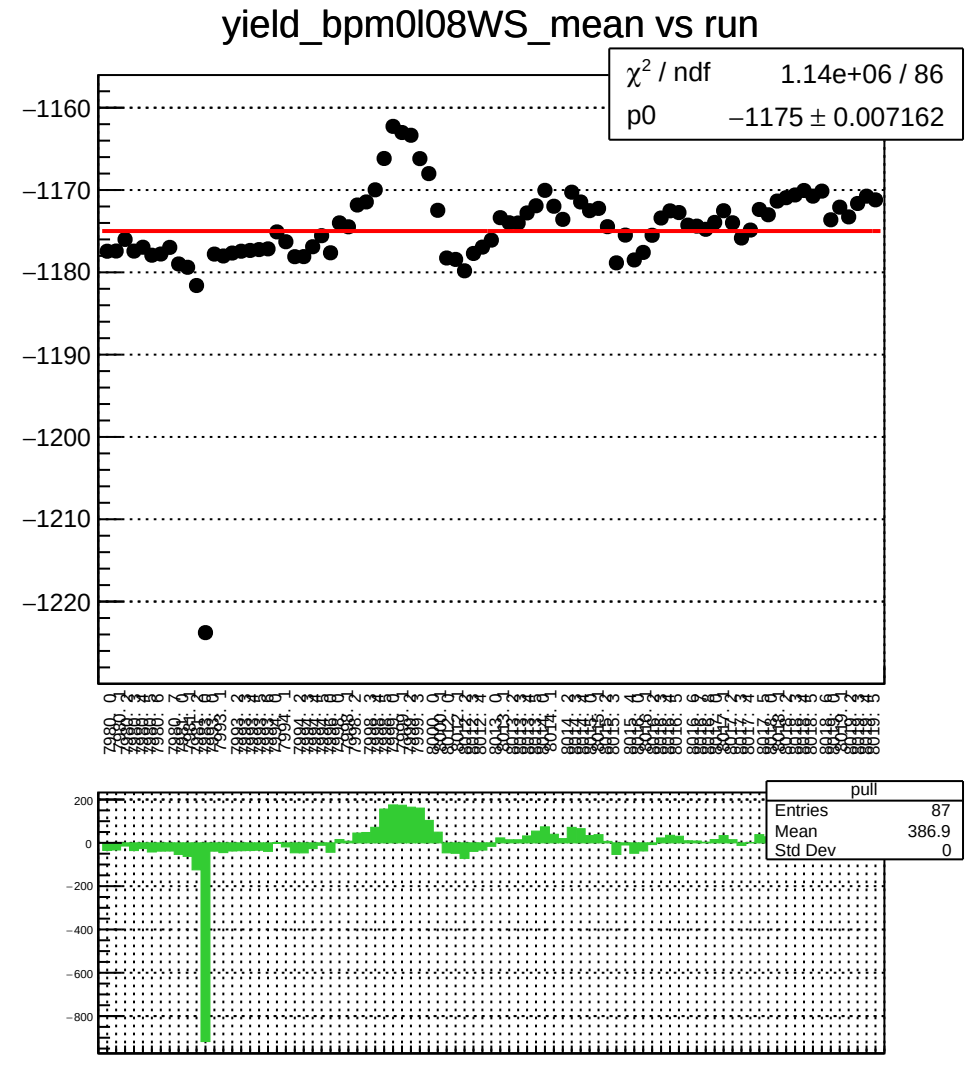

pull1D
Entries 87
Mean −0.08761
Std Dev 4.942
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

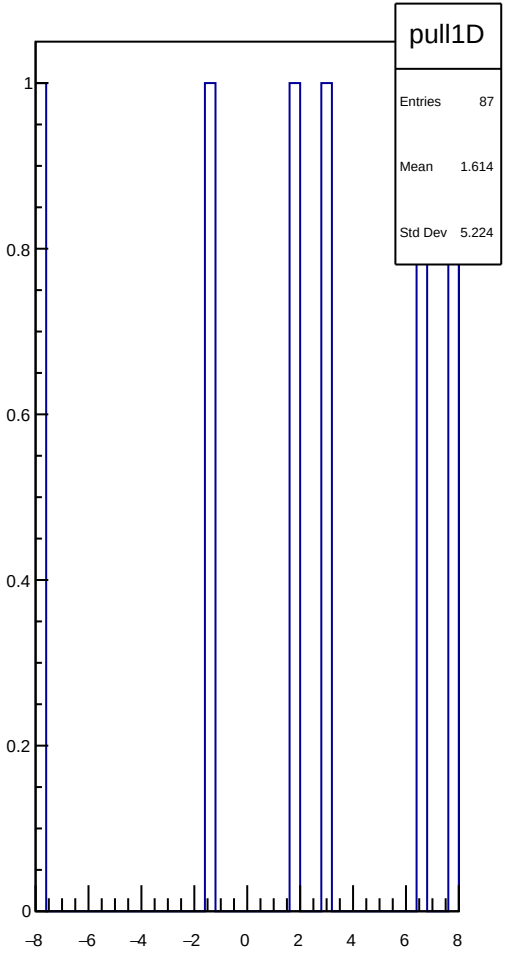

yield_bpm0l06WS_rms vs run
χ² / ndf 2656 / 86
p0 14.2 ± 0.01071
15.5
15
14.5
14
13.5
13
12.5

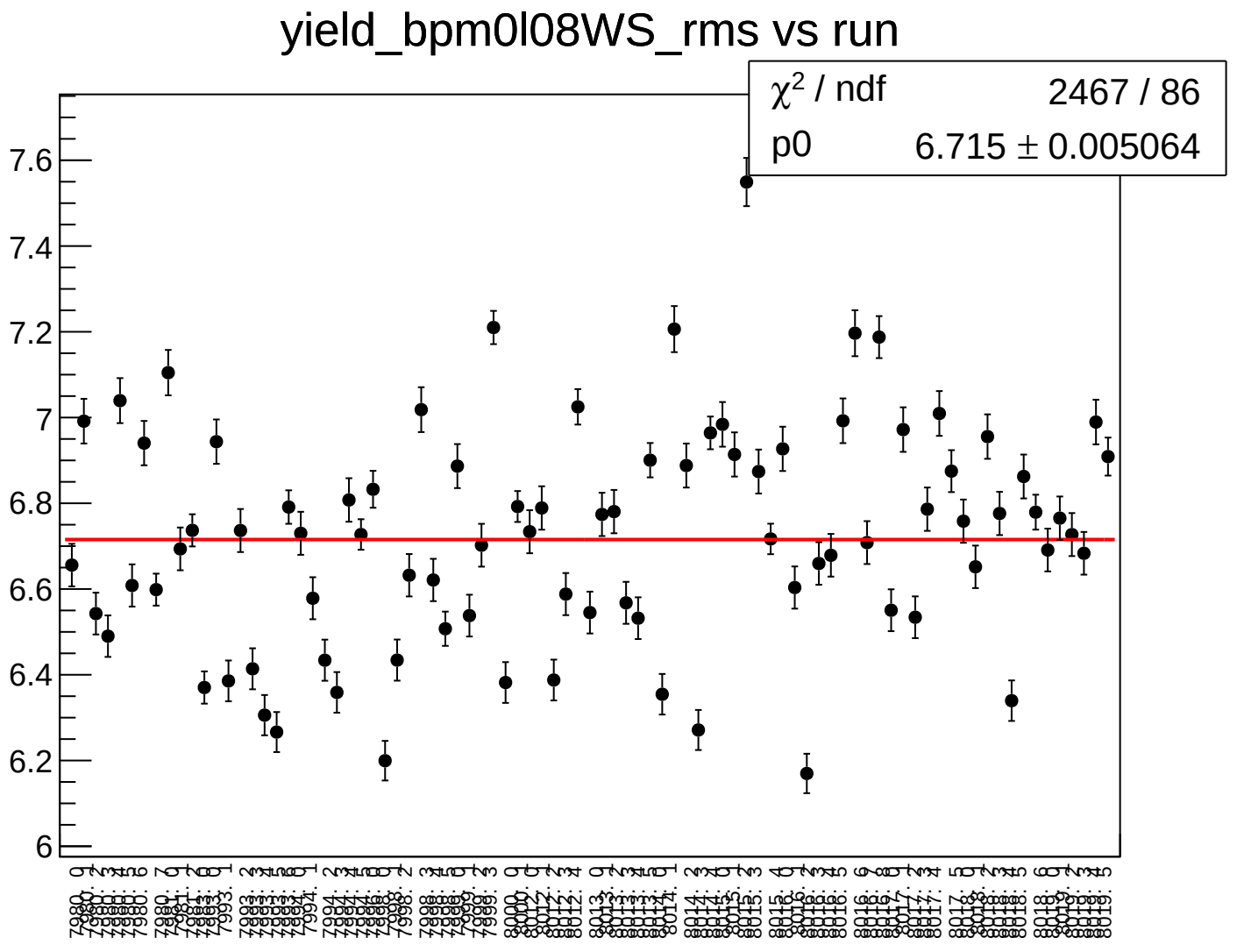

yield_bpm0l07WS_mean vs run
×10^3
145.1
145
144.9
144.8
144.7
144.6
144.5
144.4
χ² / ndf 1.087e+05 / 86
p0 1.447e+05 ± 0.5077
pull
Entries 87
Mean −58.79
Std Dev 0
80
60
40
20
0
−20
−40
−60

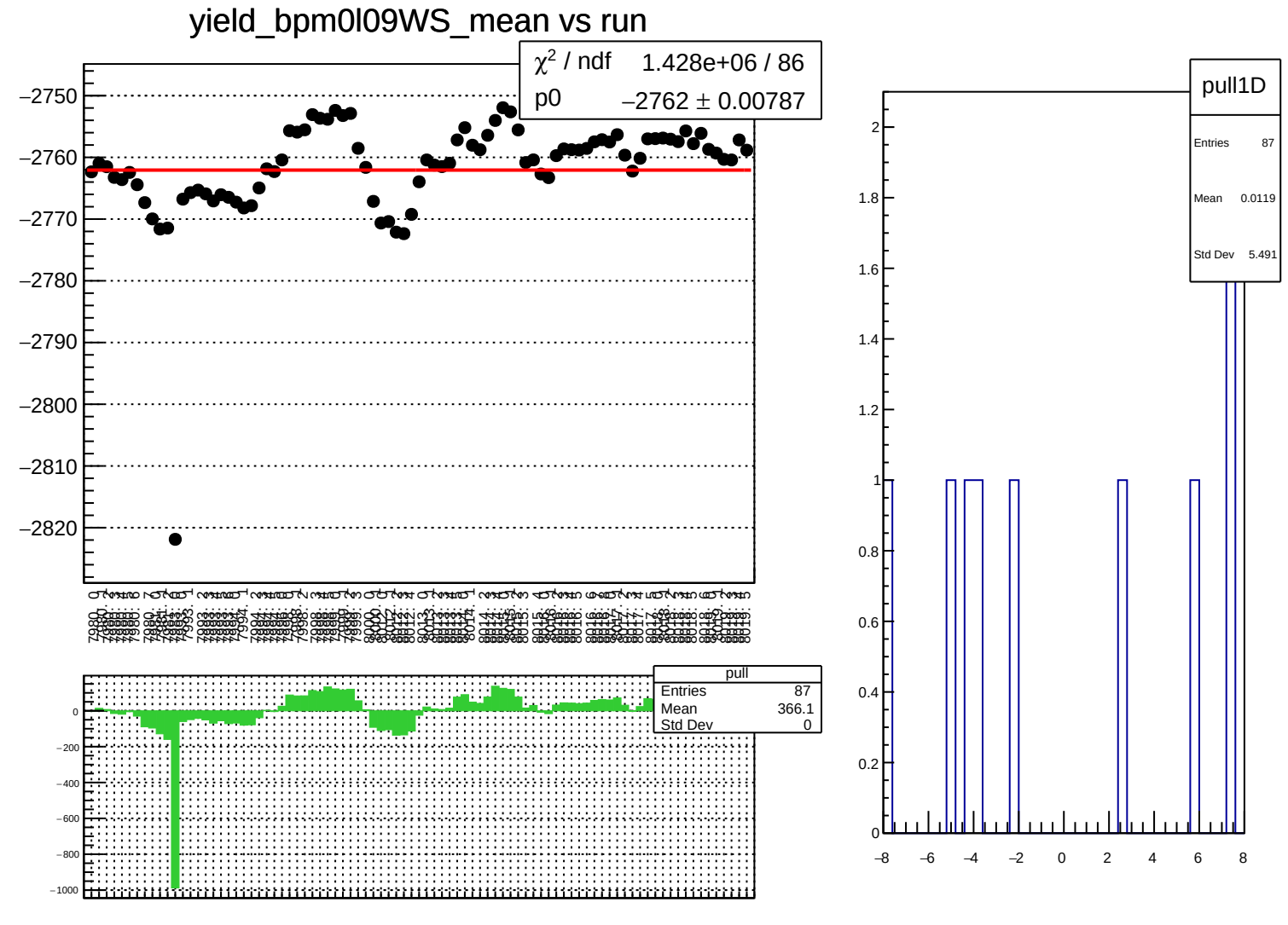

pull1D
Entries 87
Mean −0.4747
Std Dev 6.023
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

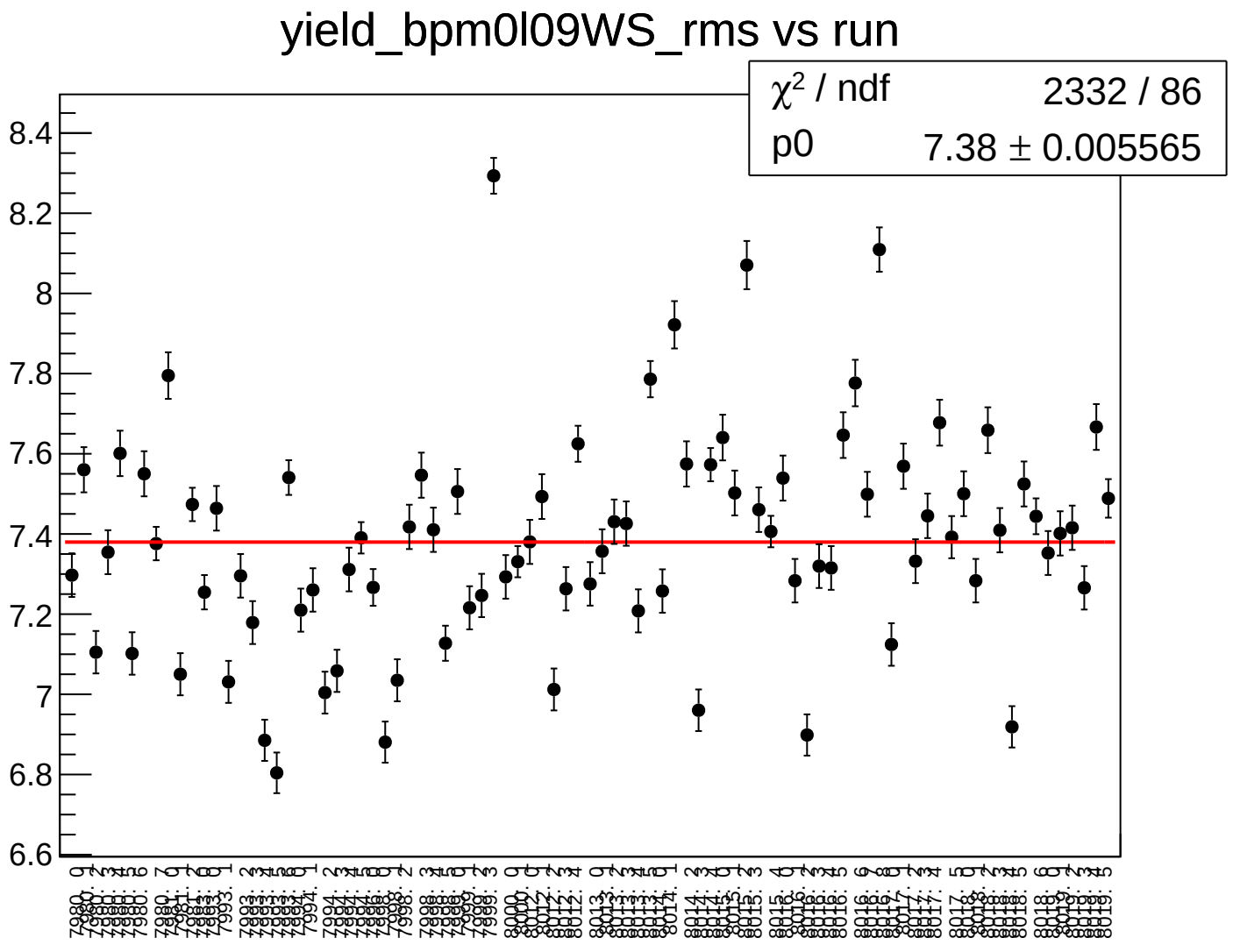

yield_bpm0l07WS_rms vs run
χ² / ndf 2.834e+04 / 86
p0 472.5 ± 0.359
1200
1000
800
600
400

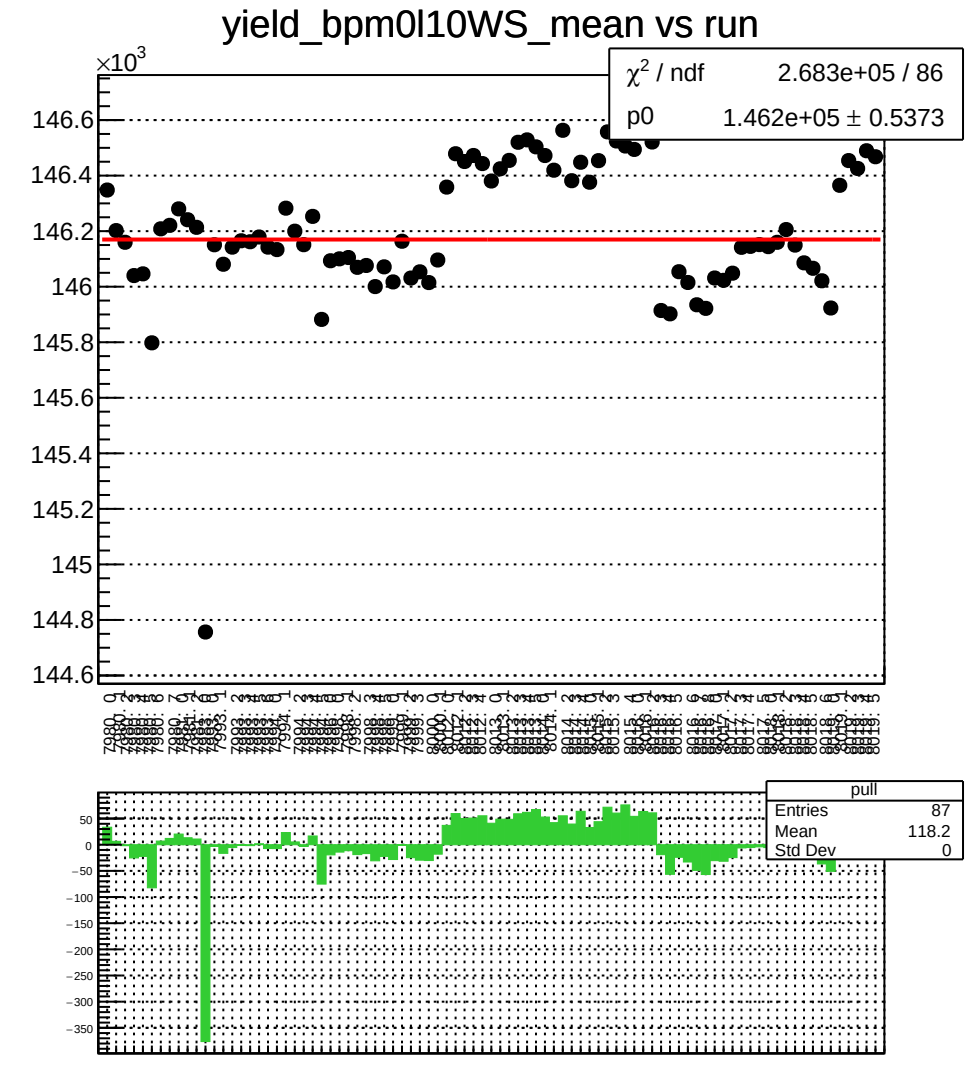

yield_bpm0l08WS_mean vs run
χ² / ndf 1.14e+06 / 86
p0 −1175 ± 0.007162
−1160
−1170
−1180
−1190
−1200
−1210
−1220
pull
Entries 87
Mean 386.9
Std Dev 0
200
0
−200
−400
−600
−800

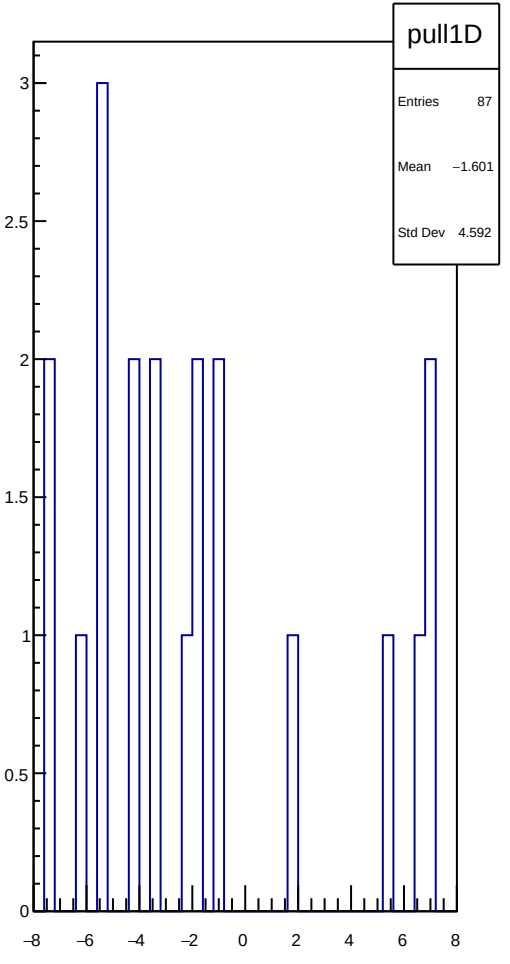

pull1D
Entries 87
Mean 1.614
Std Dev 5.224
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

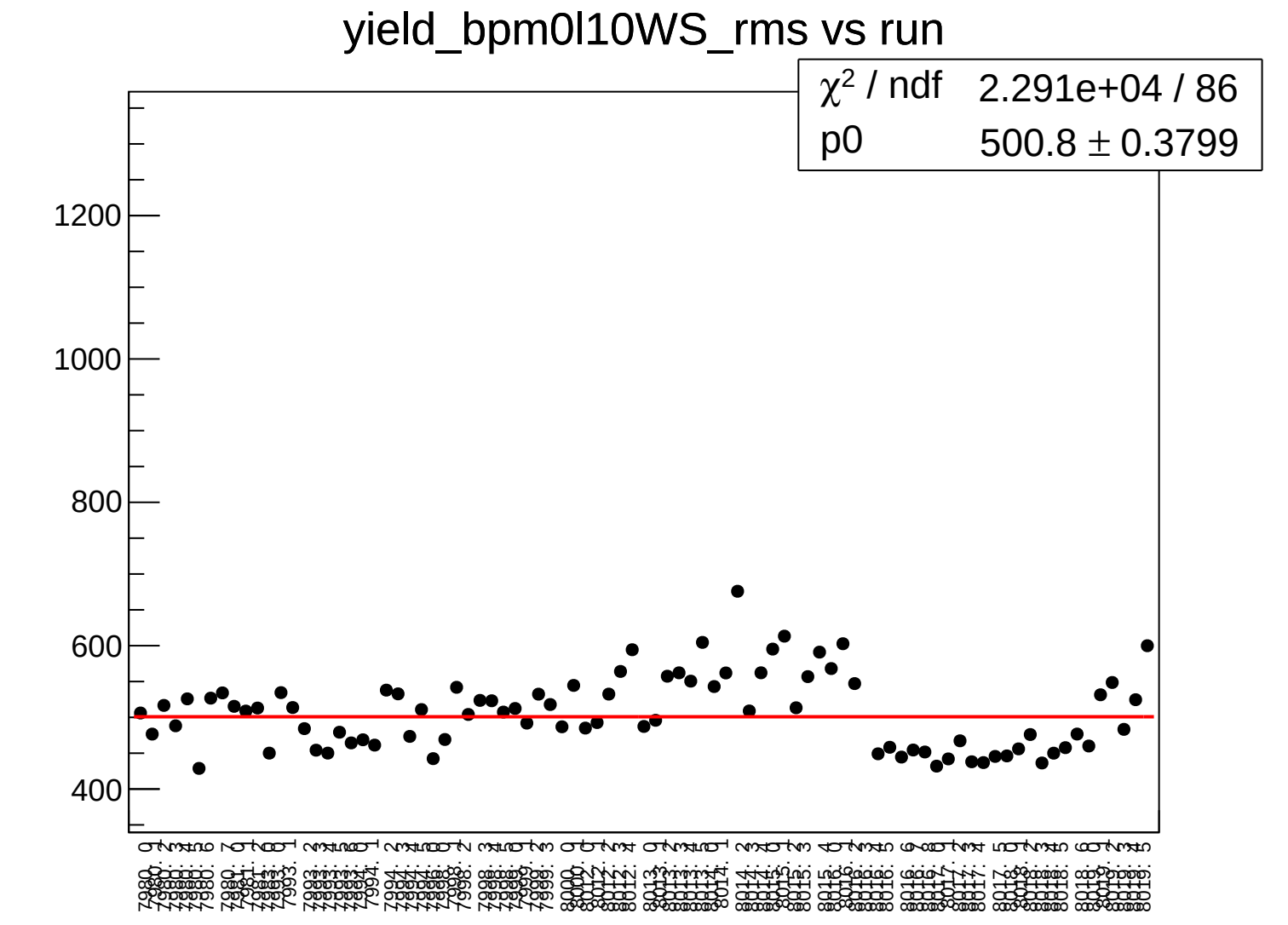

yield_bpm0l08WS_rms vs run
χ² / ndf 2467 / 86
p0 6.715 ± 0.005064
7.6
7.4
7.2
7
6.8
6.6
6.4
6.2
6

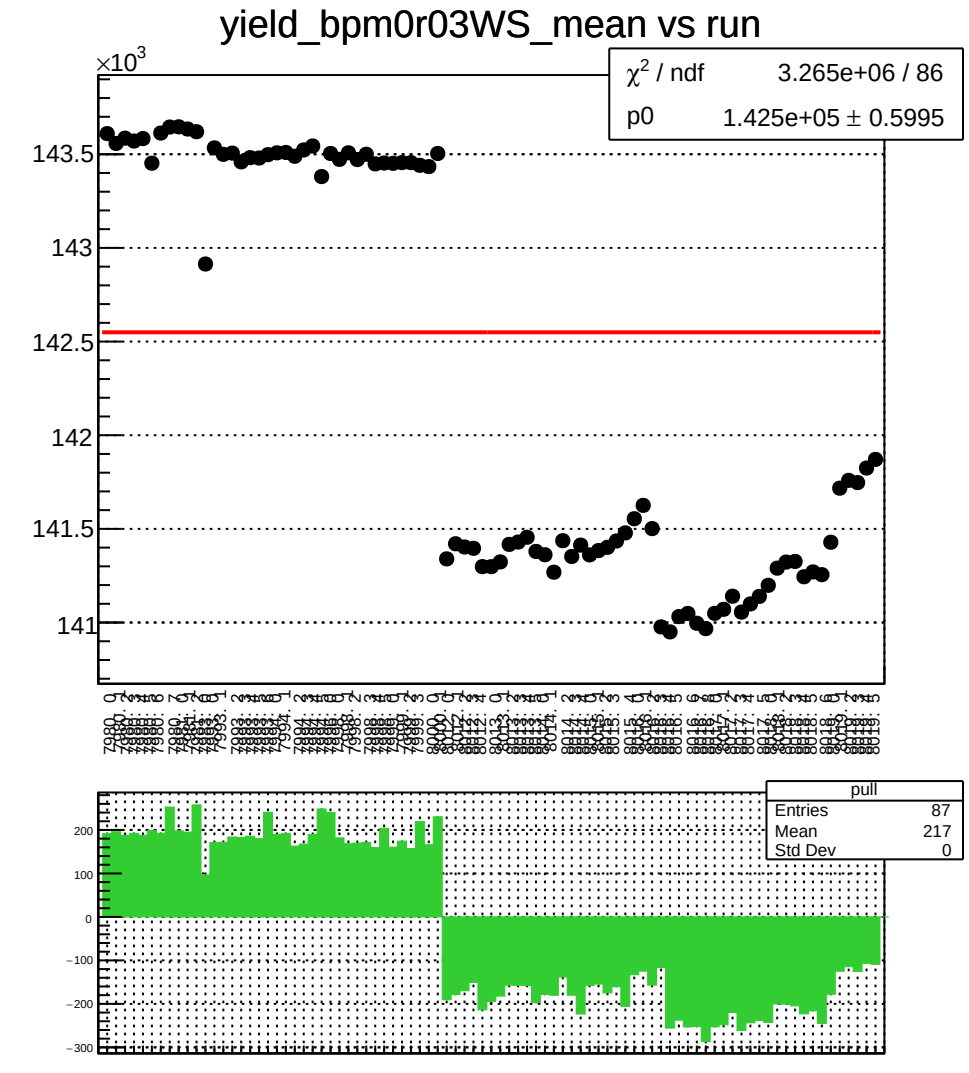

yield_bpm0l09WS_mean vs run
χ² / ndf 1.428e+06 / 86
p0 −2762 ± 0.00787
−2750
−2760
−2770
−2780
−2790
−2800
−2810
−2820
pull
Entries 87
Mean 366.1
Std Dev 0
0
−200
−400
−600
−800
−1000
pull1D
Entries 87
Mean 0.0119
Std Dev 5.491
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

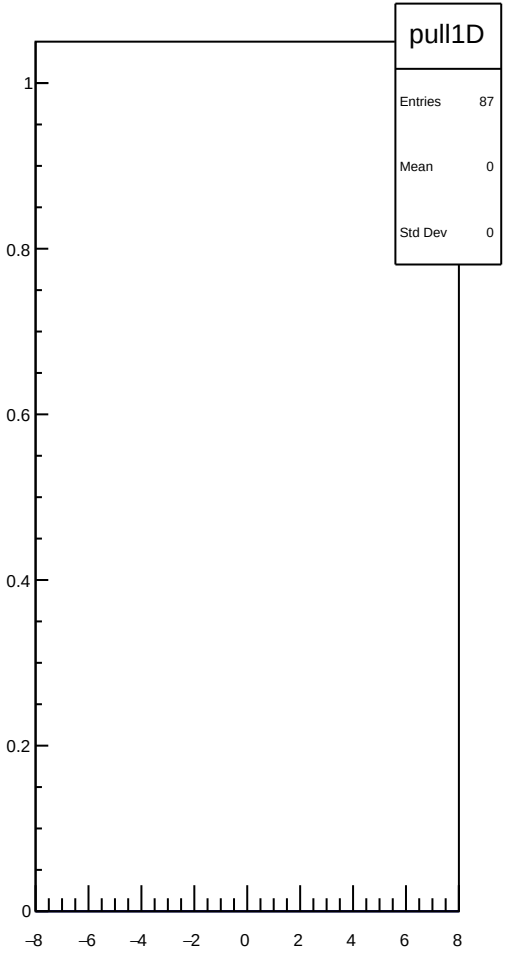

yield_bpm0l09WS_rms vs run
χ² / ndf 2332 / 86
p0 7.38 ± 0.005565
8.4
8.2
8
7.8
7.6
7.4
7.2
7
6.8
6.6

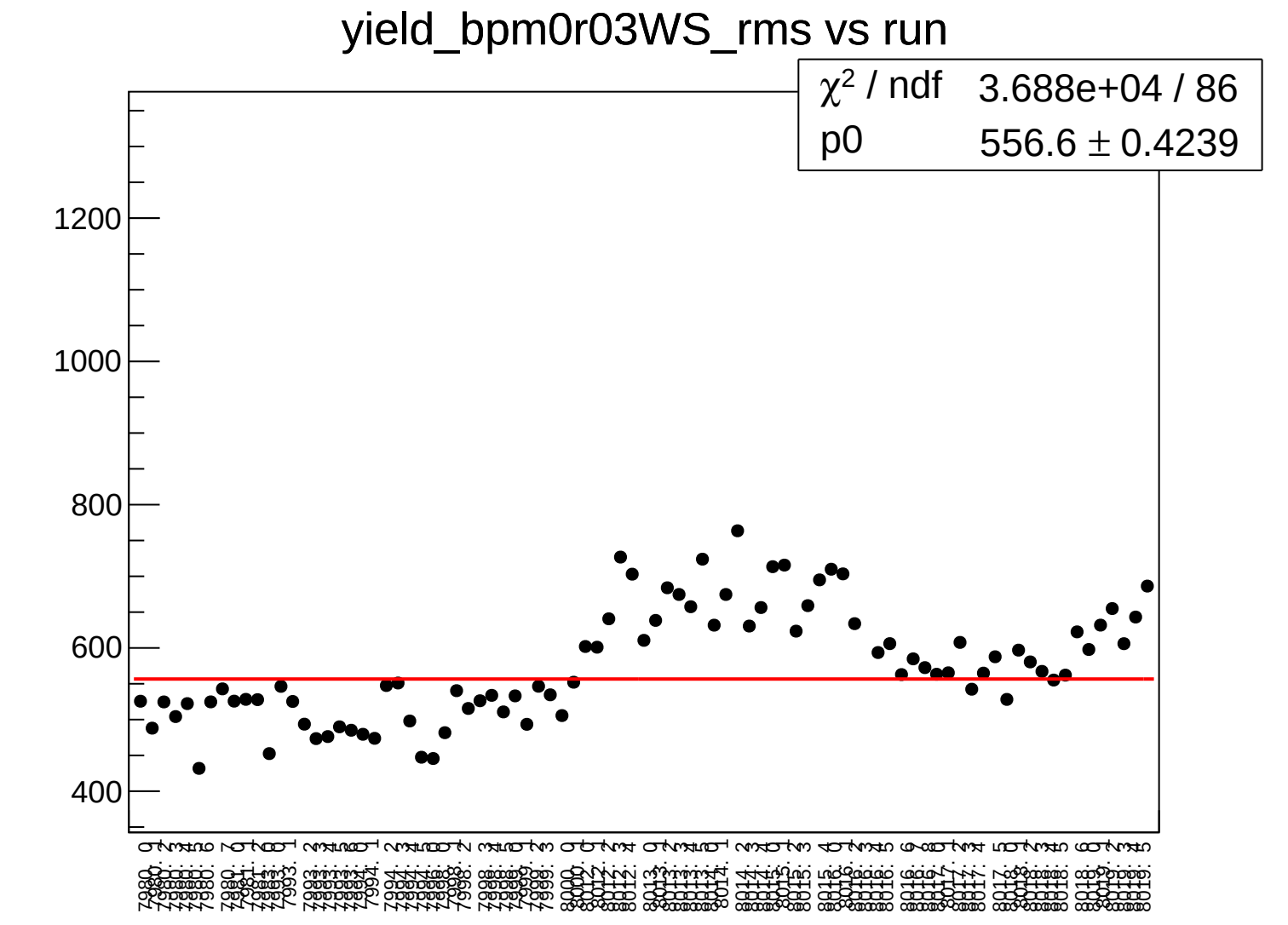

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 2.683e+05 / 86
p0 1.462e+05 ± 0.5373
146.6
146.4
146.2
146
145.8
145.6
145.4
145.2
145
144.8
144.6
pull
Entries 87
Mean 118.2
Std Dev 0
50
0
−50
−100
−150
−200
−250
−300
−350

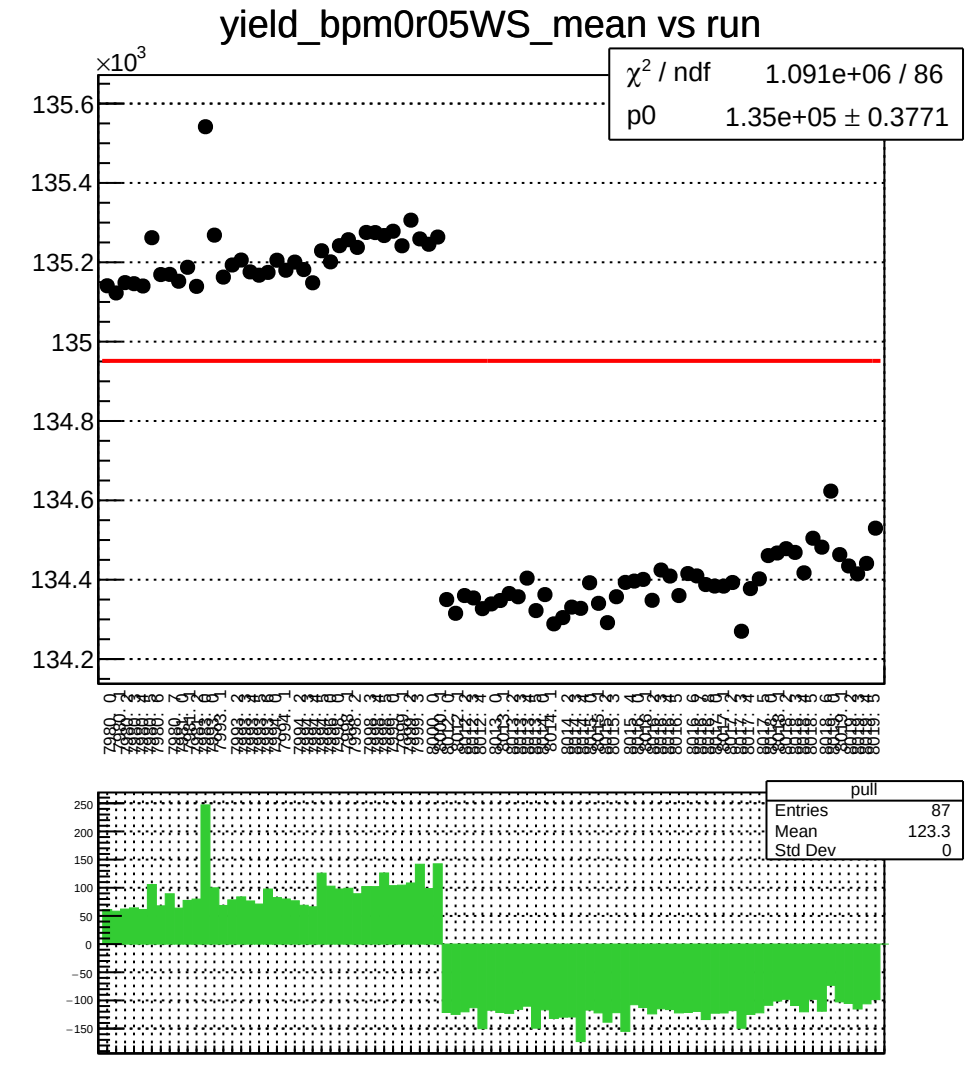

pull1D
Entries 87
Mean −1.601
Std Dev 4.592
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

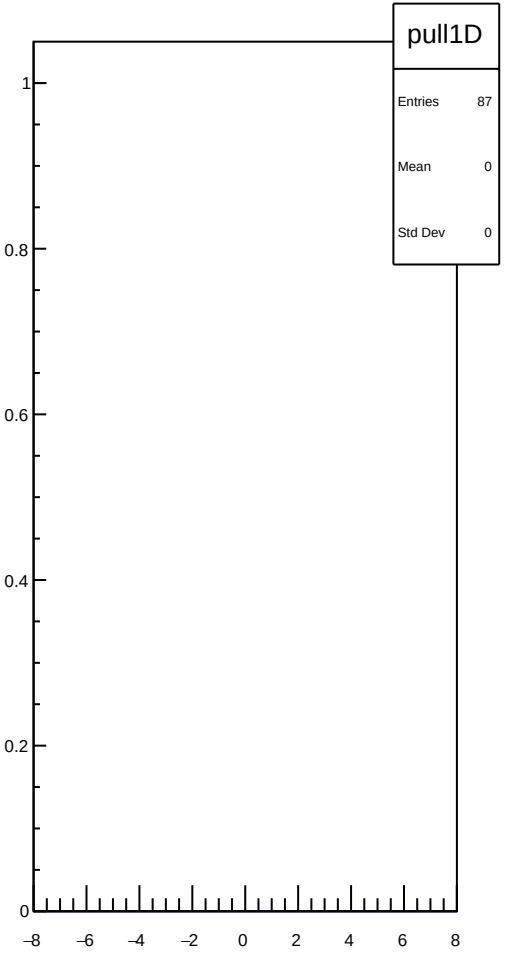

yield_bpm0l10WS_rms vs run
χ² / ndf 2.291e+04 / 86
p0 500.8 ± 0.3799
1200
1000
800
600
400

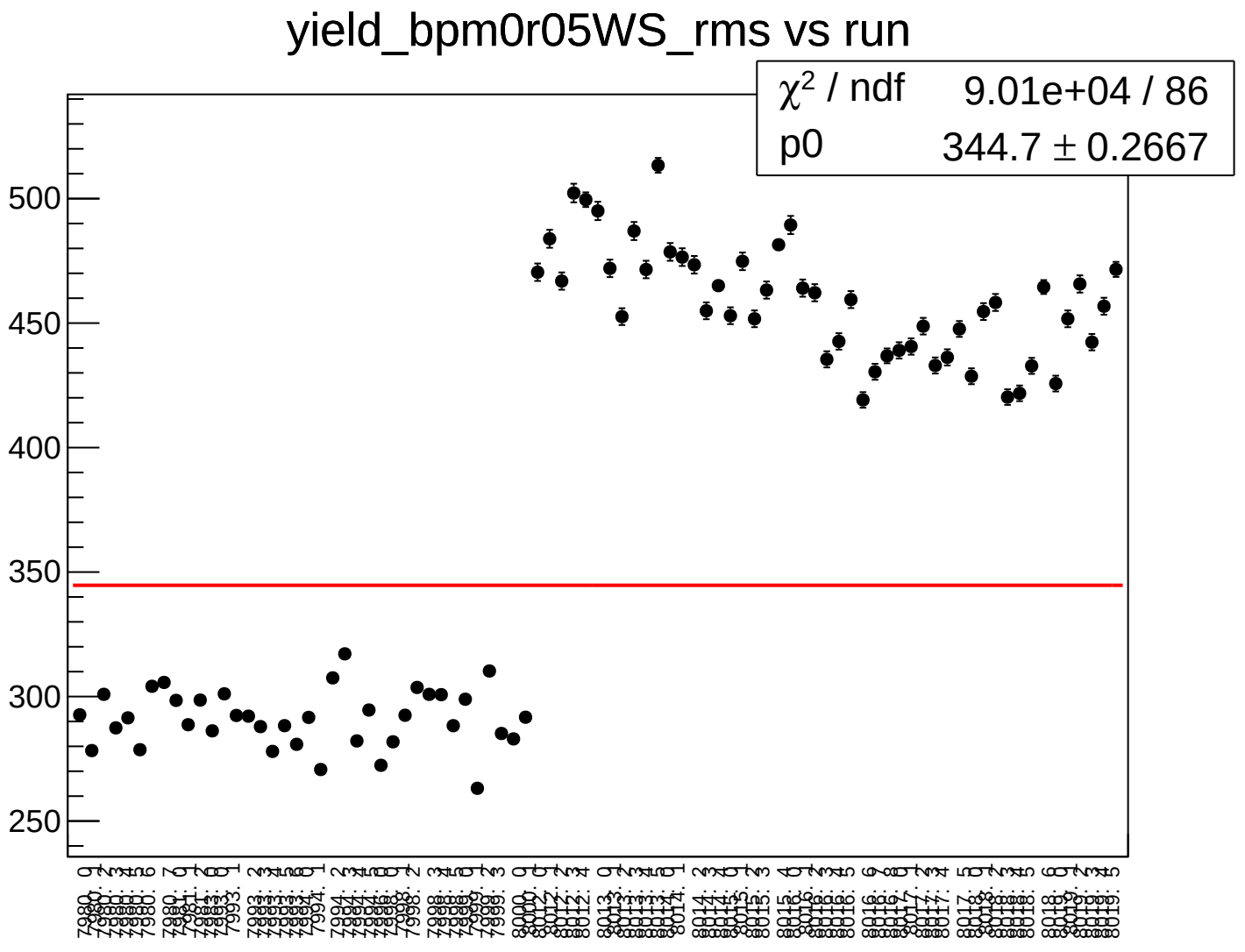

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 3.265e+06 / 86
p0 1.425e+05 ± 0.5995
143.5
143
142.5
142
141.5
141
pull
Entries 87
Mean 217
Std Dev 0
200
100
0
−100
−200
−300

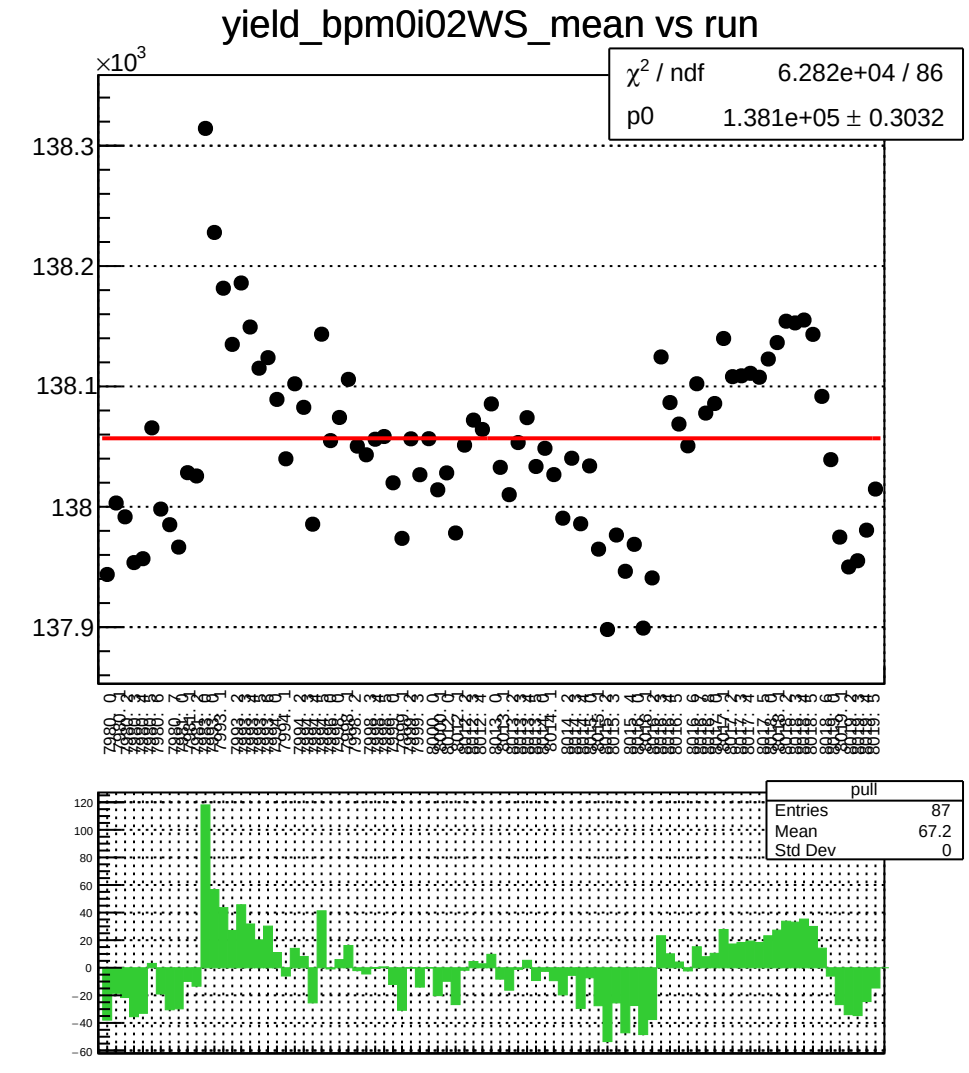

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

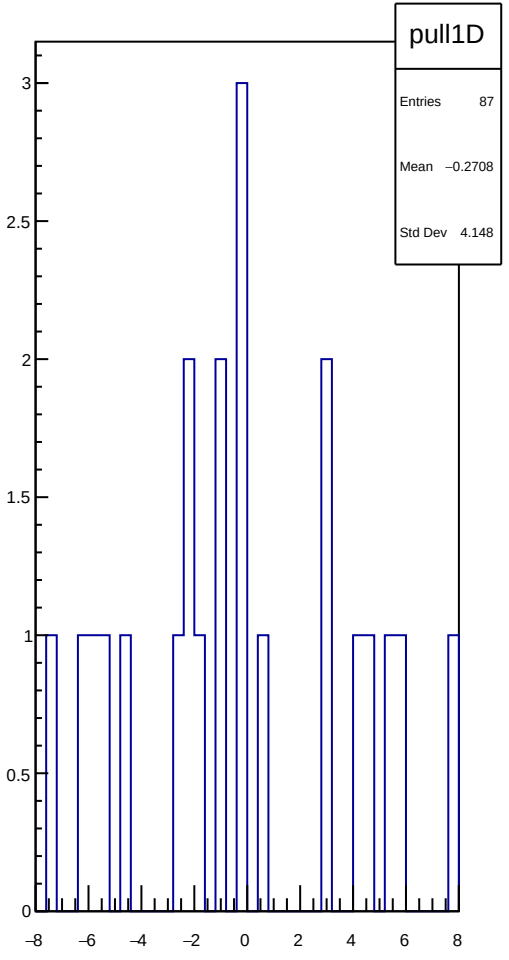

yield_bpm0r03WS_rms vs run
χ² / ndf 3.688e+04 / 86
p0 556.6 ± 0.4239
1200
1000
800
600
400

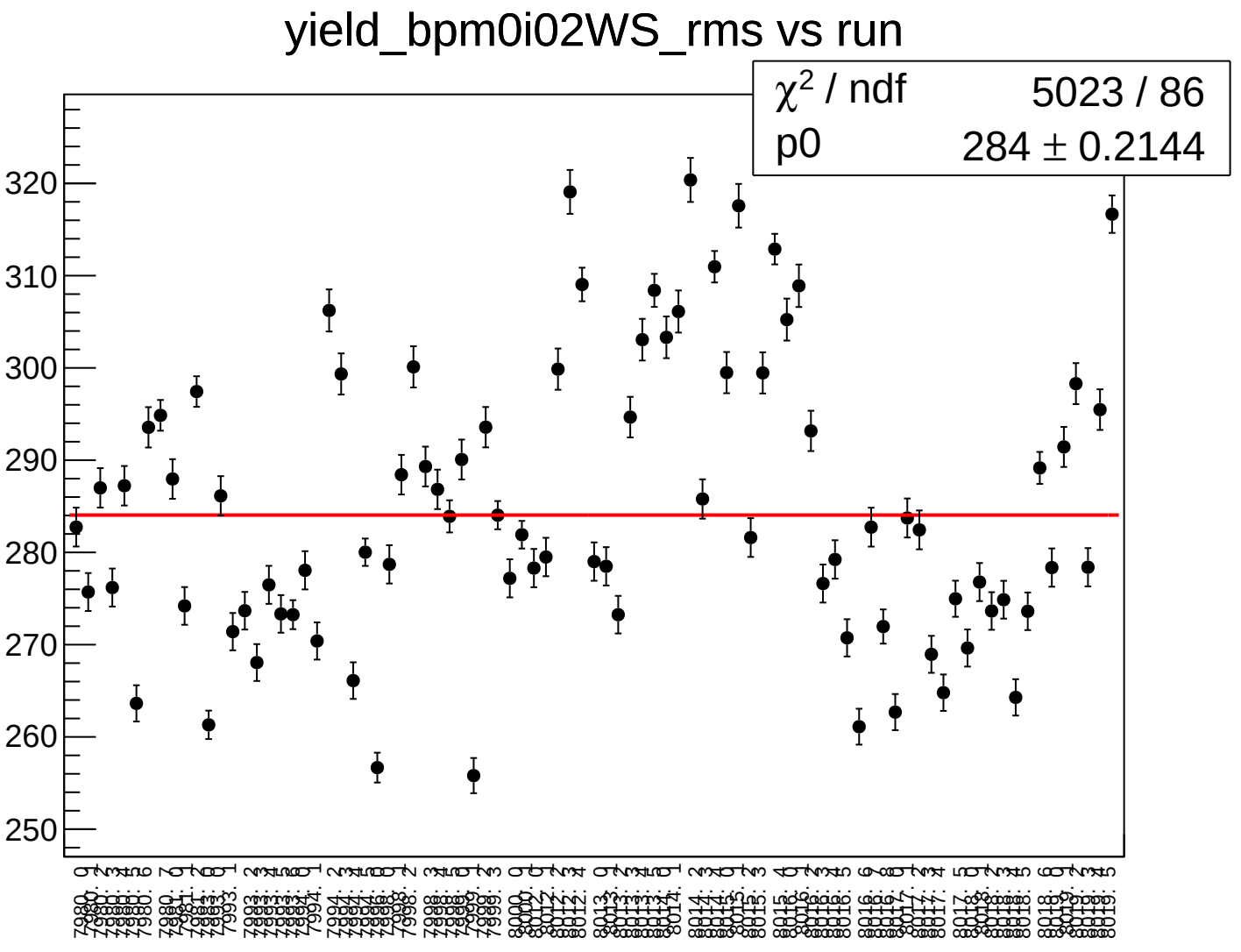

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.091e+06 / 86
p0 1.35e+05 ± 0.3771
135.6
135.4
135.2
135
134.8
134.6
134.4
134.2
pull
Entries 87
Mean 123.3
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

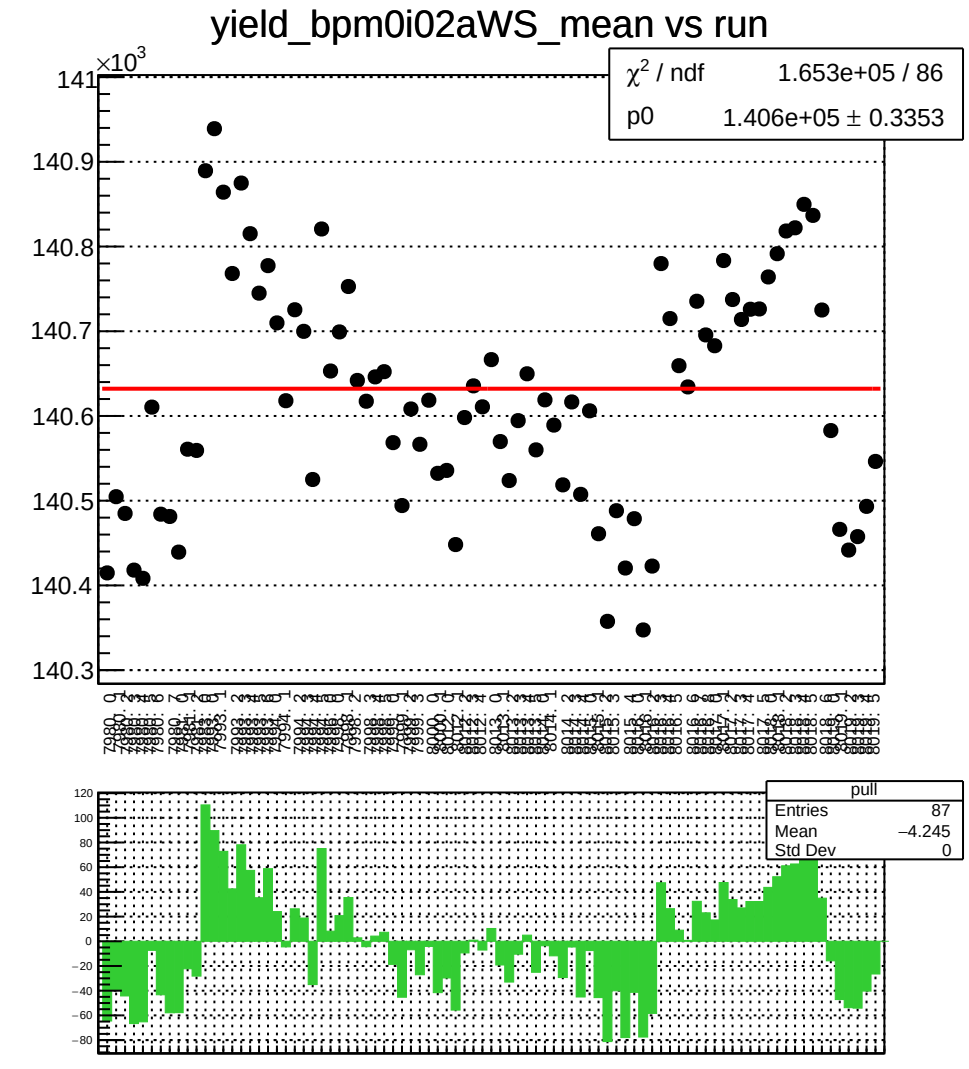

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

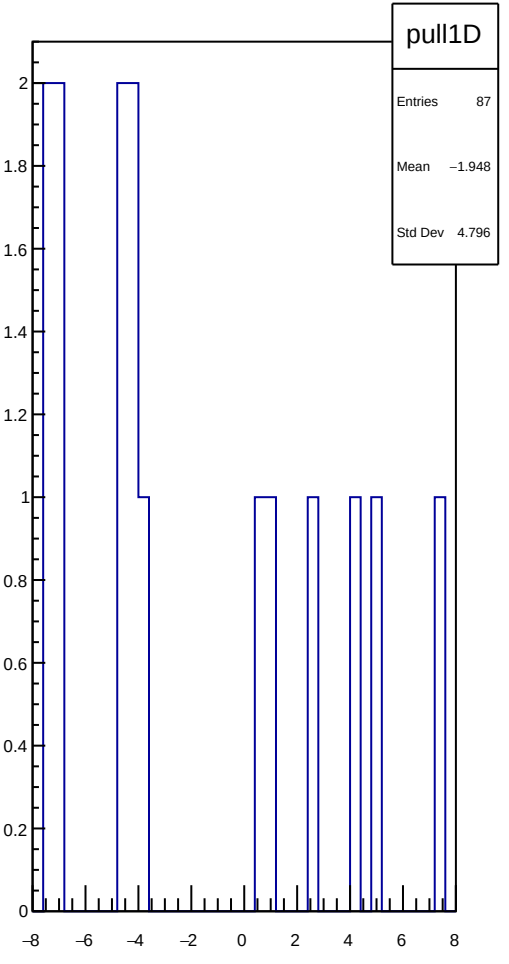

yield_bpm0r05WS_rms vs run
χ² / ndf 9.01e+04 / 86
p0 344.7 ± 0.2667
500
450
400
350
300
250

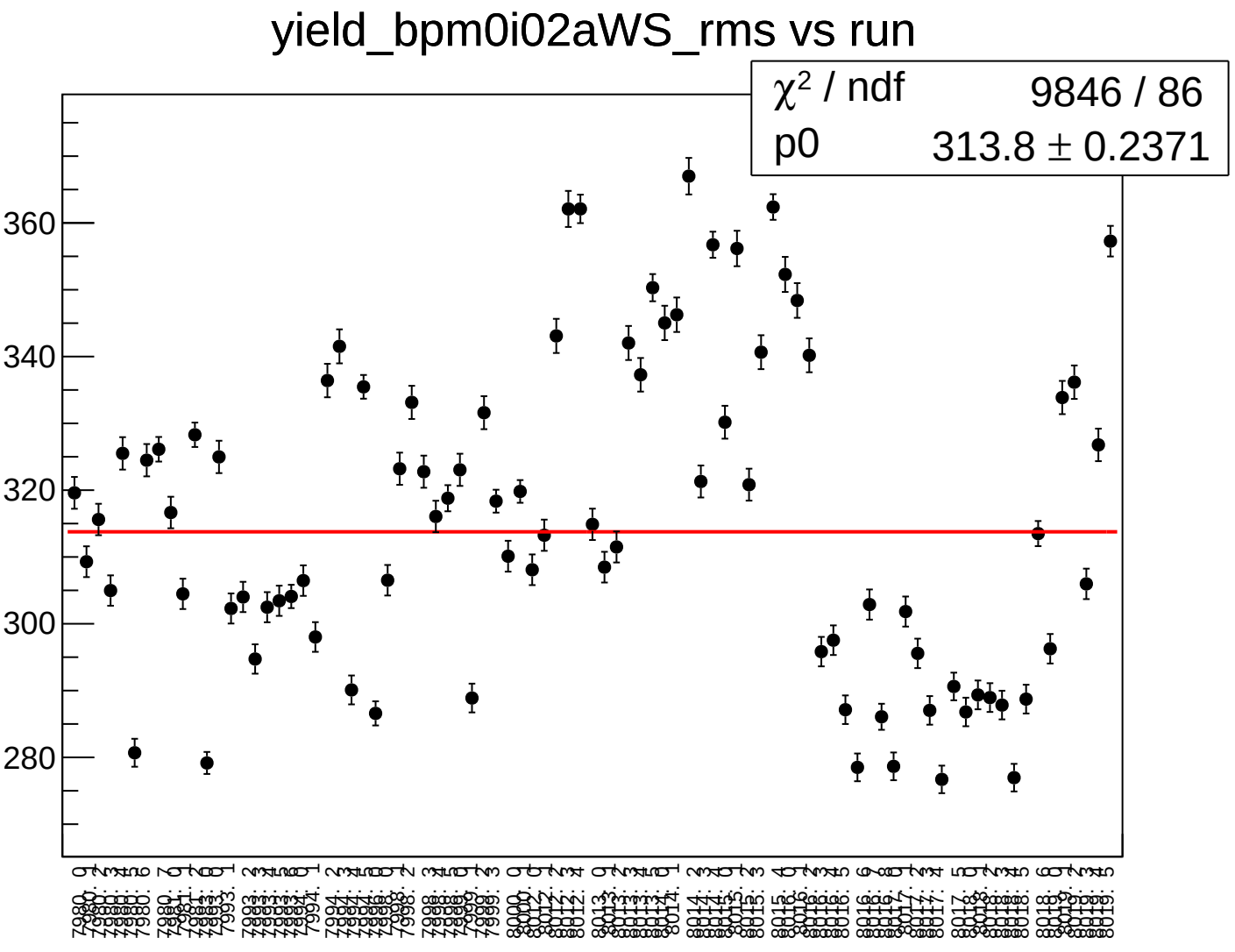

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 6.282e+04 / 86
p0 1.381e+05 ± 0.3032
138.3
138.2
138.1
138
137.9
pull
Entries 87
Mean 67.2
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

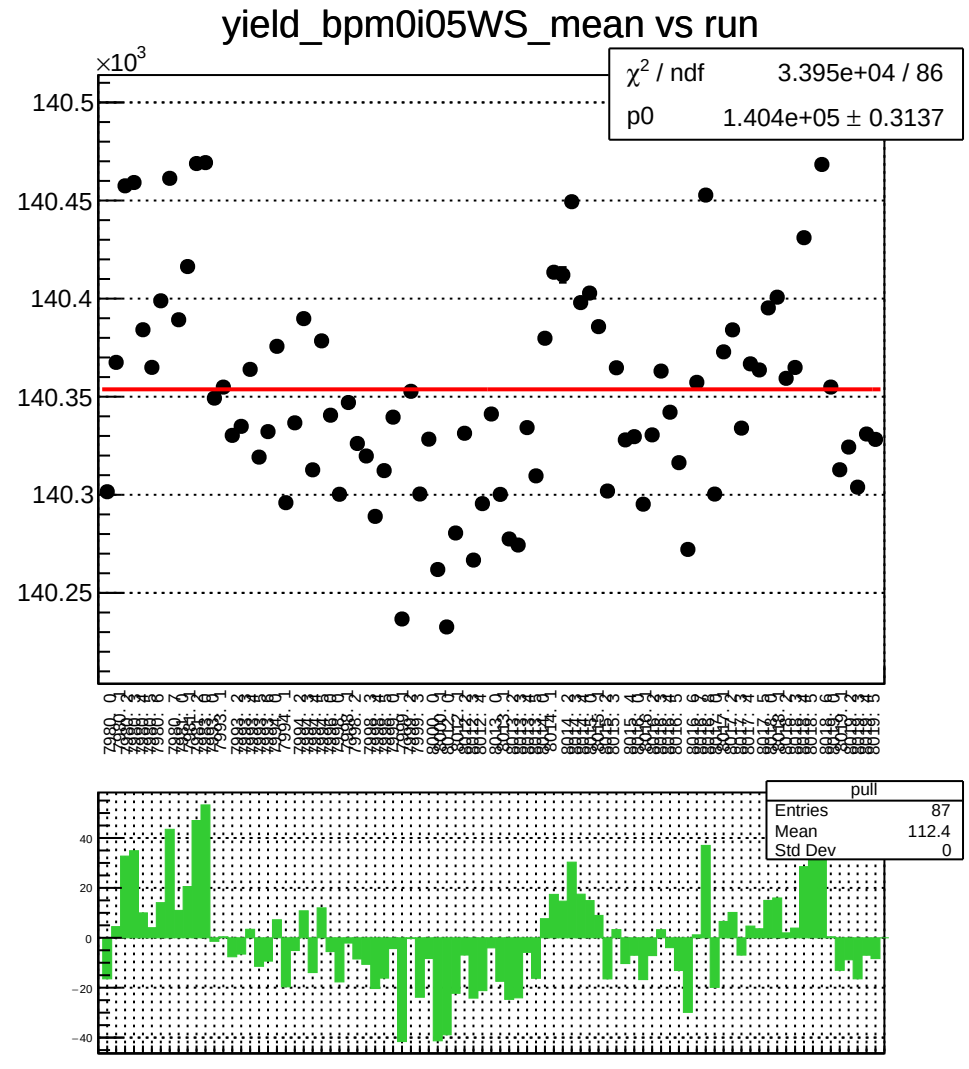

pull1D
Entries 87
Mean −0.2708
Std Dev 4.148
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

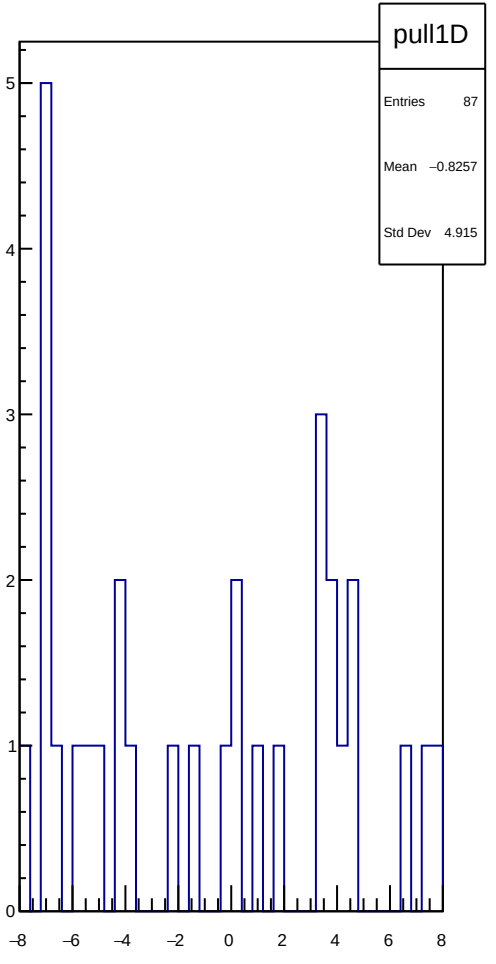

yield_bpm0i02WS_rms vs run
χ² / ndf 5023 / 86
p0 284 ± 0.2144
320
310
300
290
280
270
260
250

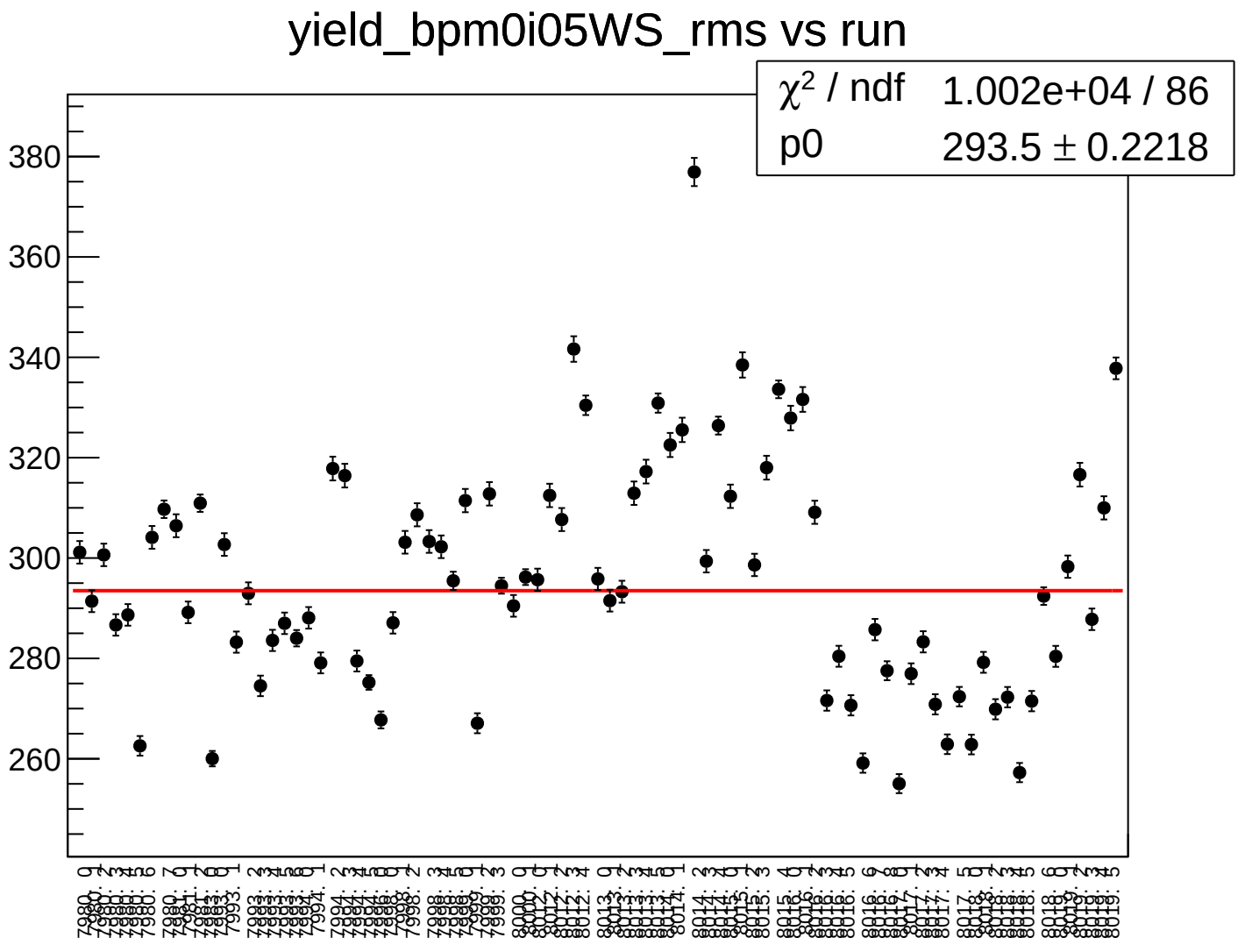

yield_bpm0i02aWS_mean vs run
χ² / ndf 1.653e+05 / 86
p0 1.406e+05 ± 0.3353
×10³
141
140.9
140.8
140.7
140.6
140.5
140.4
140.3
pull
Entries 87
Mean −4.245
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

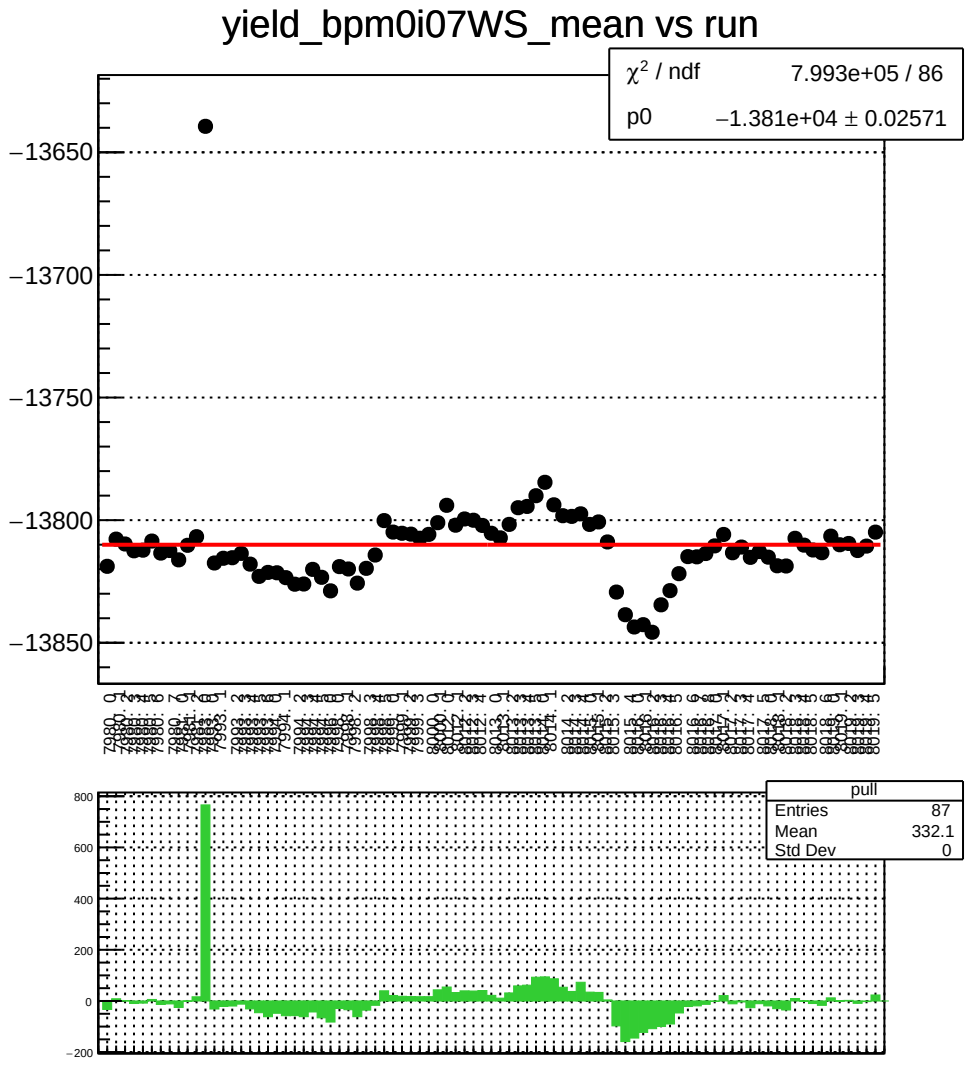

pull1D
Entries 87
Mean −1.948
Std Dev 4.796
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

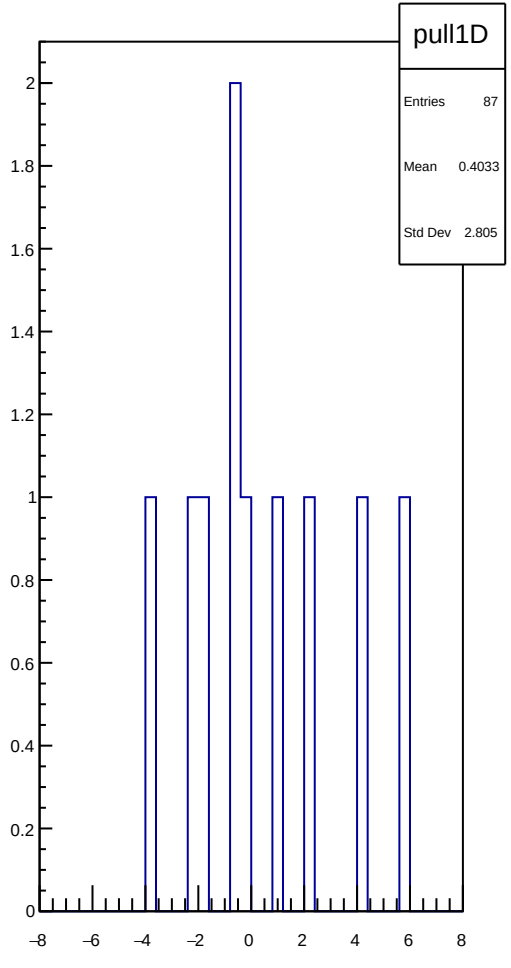

yield_bpm0i02aWS_rms vs run
χ² / ndf 9846 / 86
p0 313.8 ± 0.2371
360
340
320
300
280

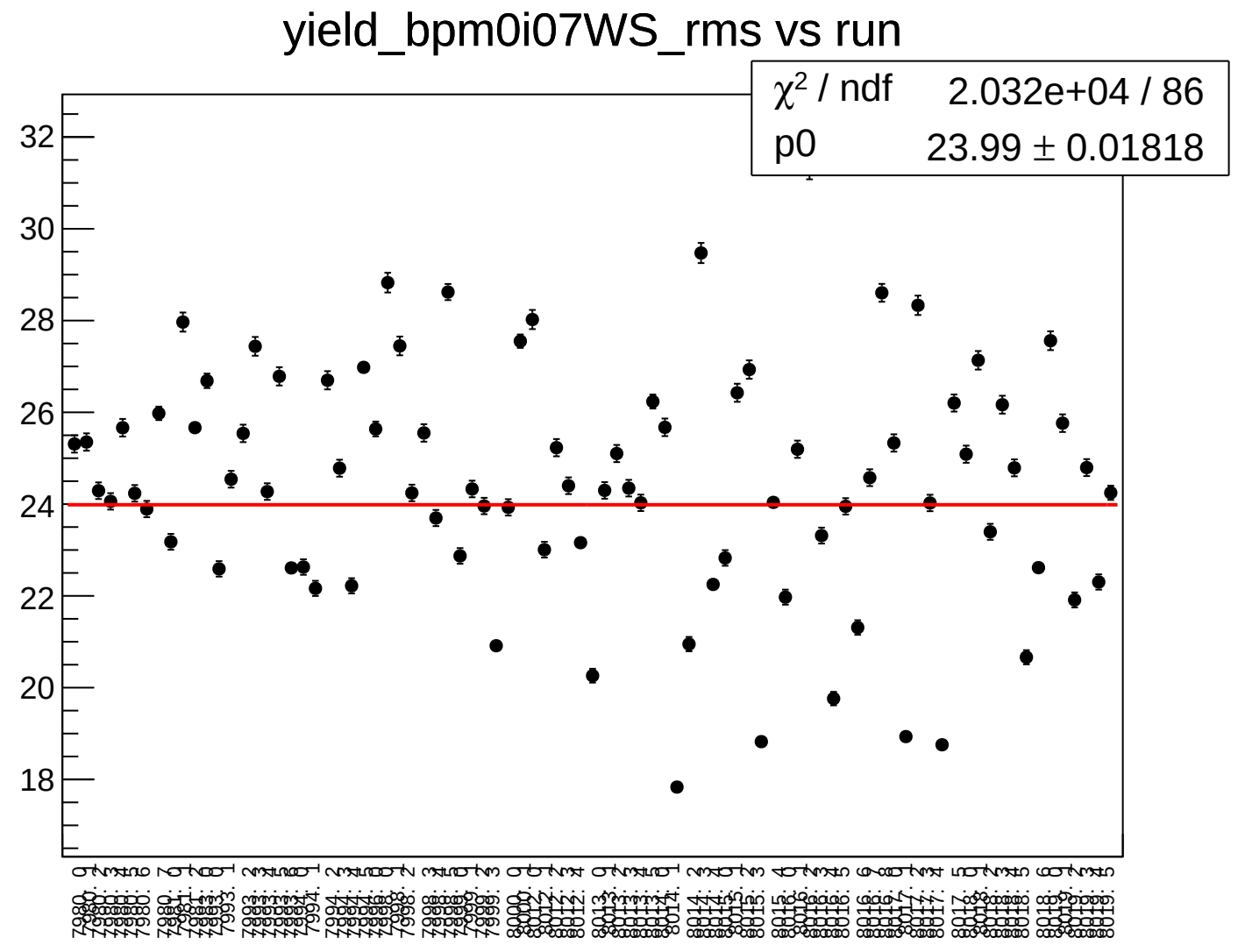

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 3.395e+04 / 86
p0 1.404e+05 ± 0.3137
140.5
140.45
140.4
140.35
140.3
140.25
pull
Entries 87
Mean 112.4
Std Dev 0
40
20
0
−20
−40

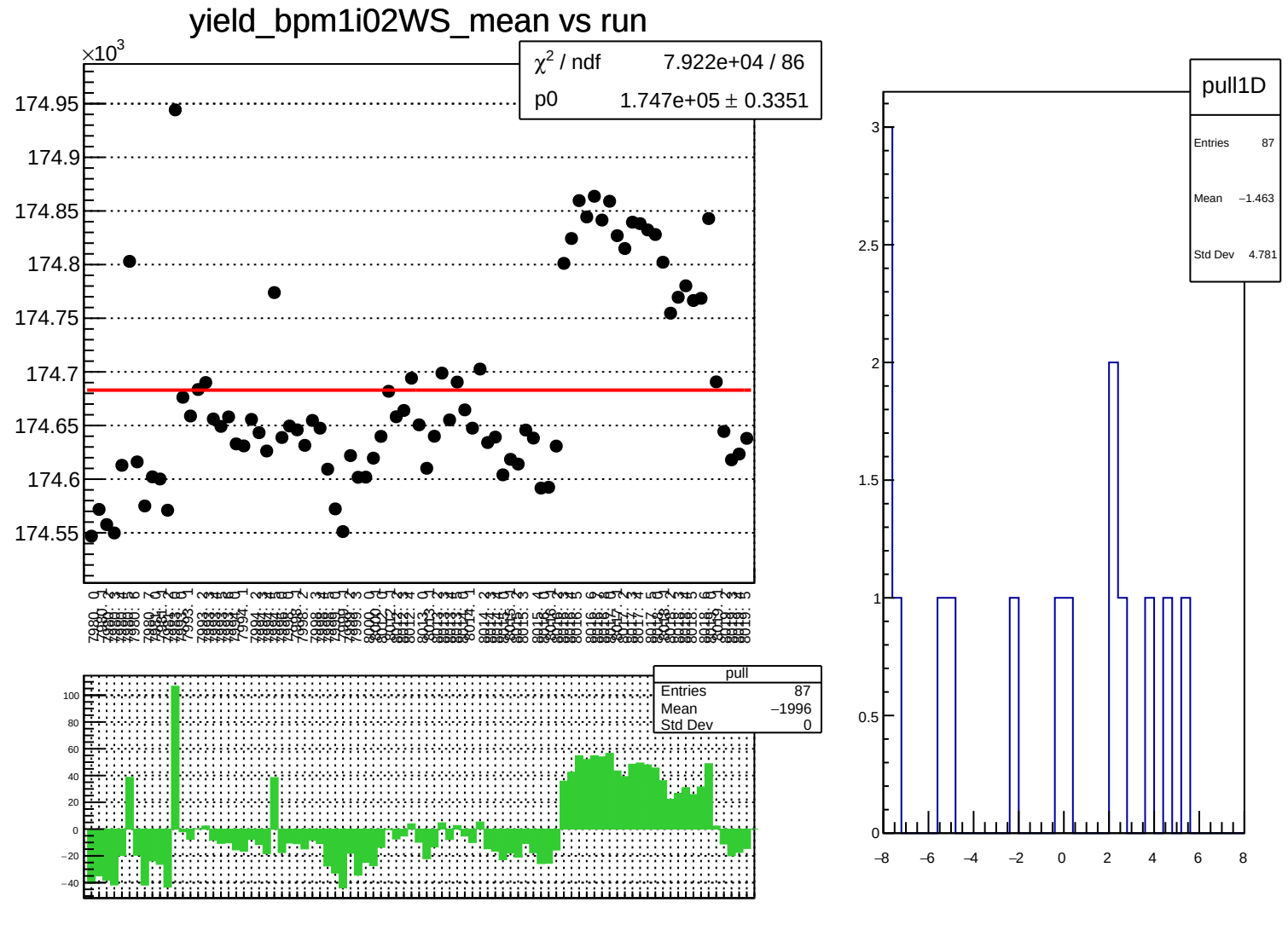

pull1D
Entries 87
Mean −0.8257
Std Dev 4.915
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

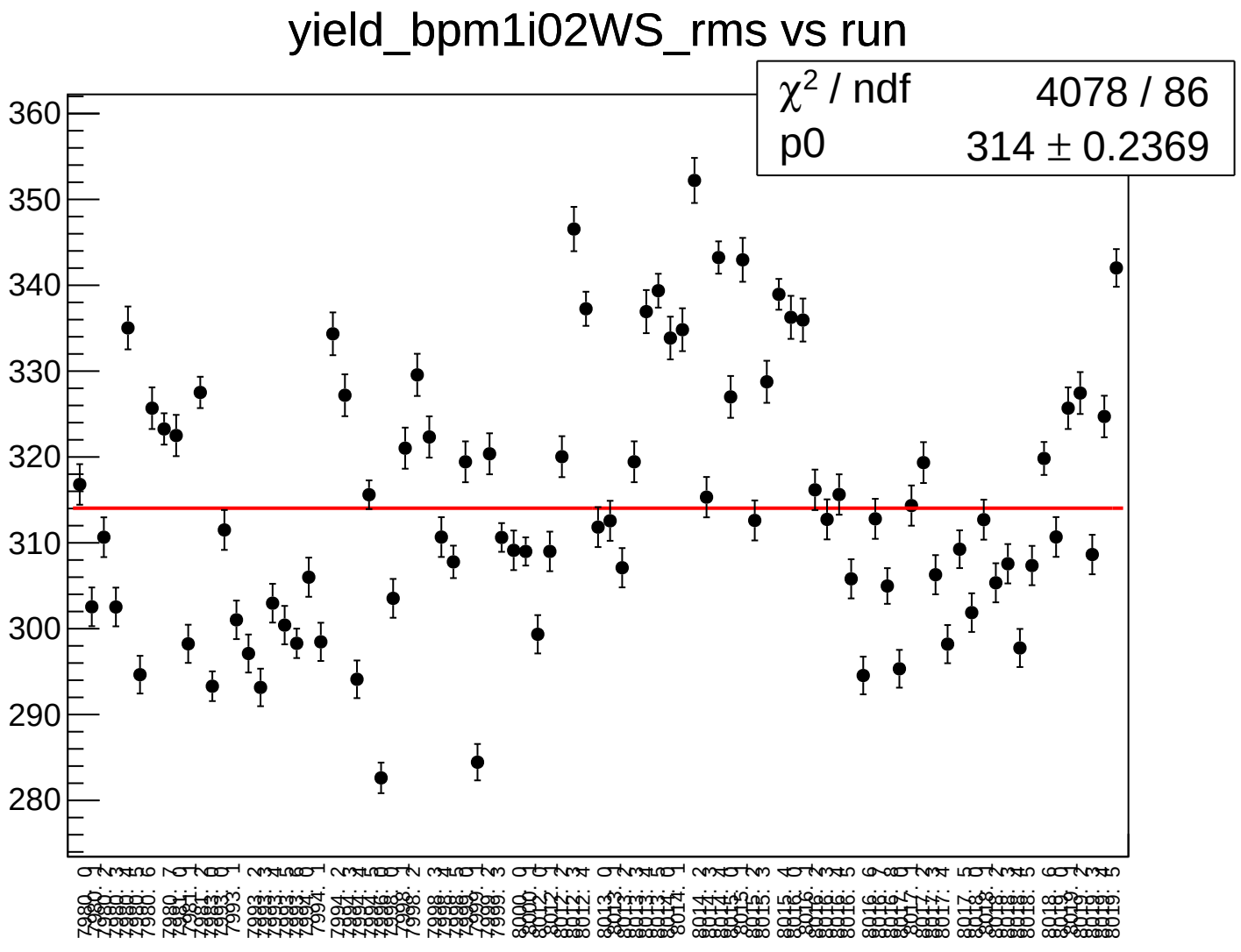

yield_bpm0i05WS_rms vs run
χ² / ndf 1.002e+04 / 86
p0 293.5 ± 0.2218
380
360
340
320
300
280
260

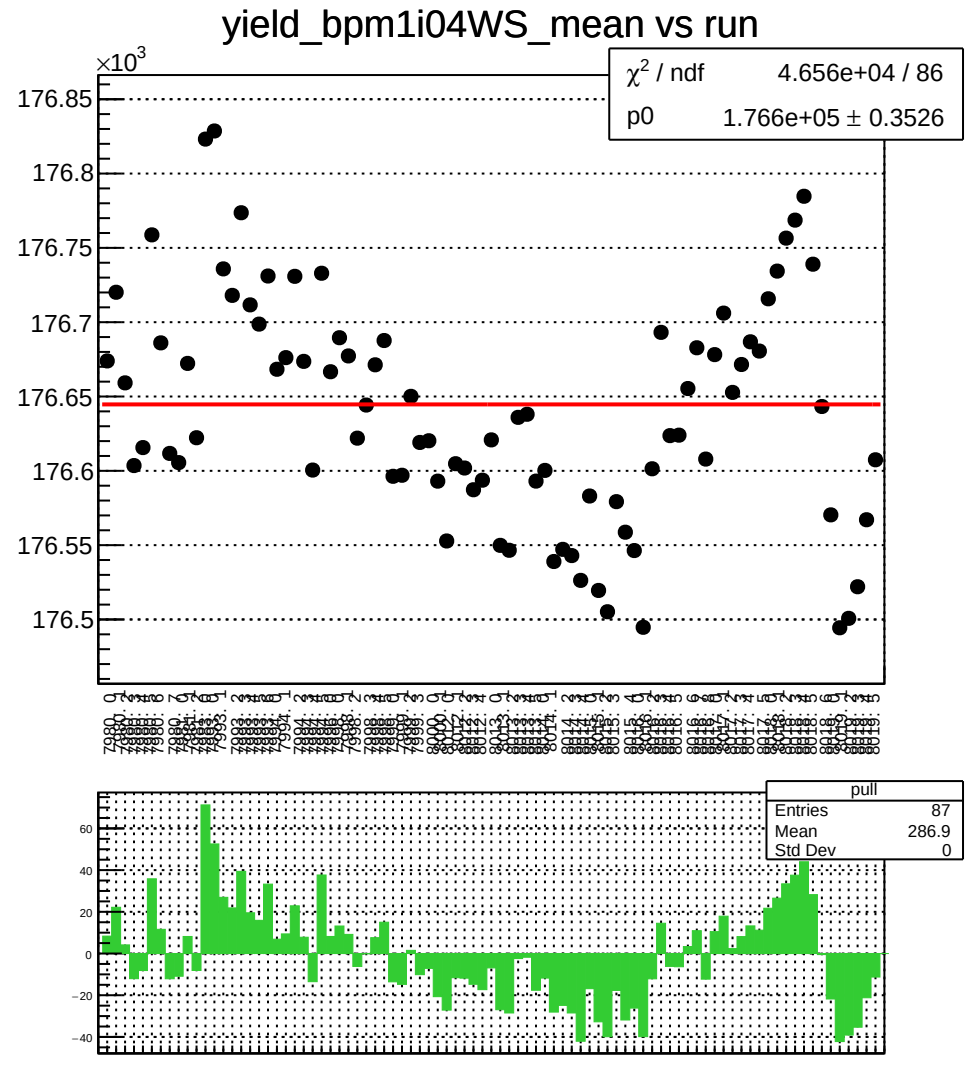

yield_bpm0i07WS_mean vs run
χ² / ndf 7.993e+05 / 86
p0 −1.381e+04 ± 0.02571
−13650
−13700
−13750
−13800
−13850
pull
Entries 87
Mean 332.1
Std Dev 0
800
600
400
200
0
−200

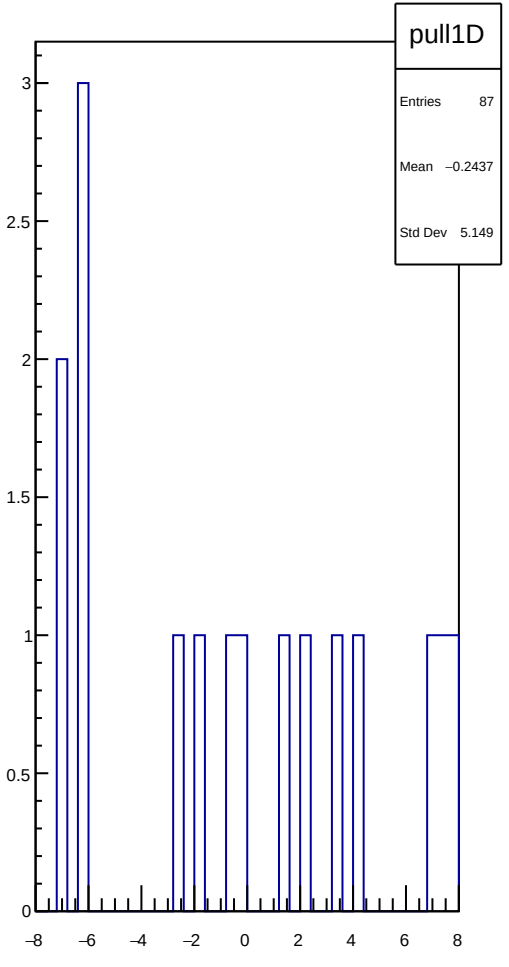

pull1D
Entries 87
Mean 0.4033
Std Dev 2.805
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

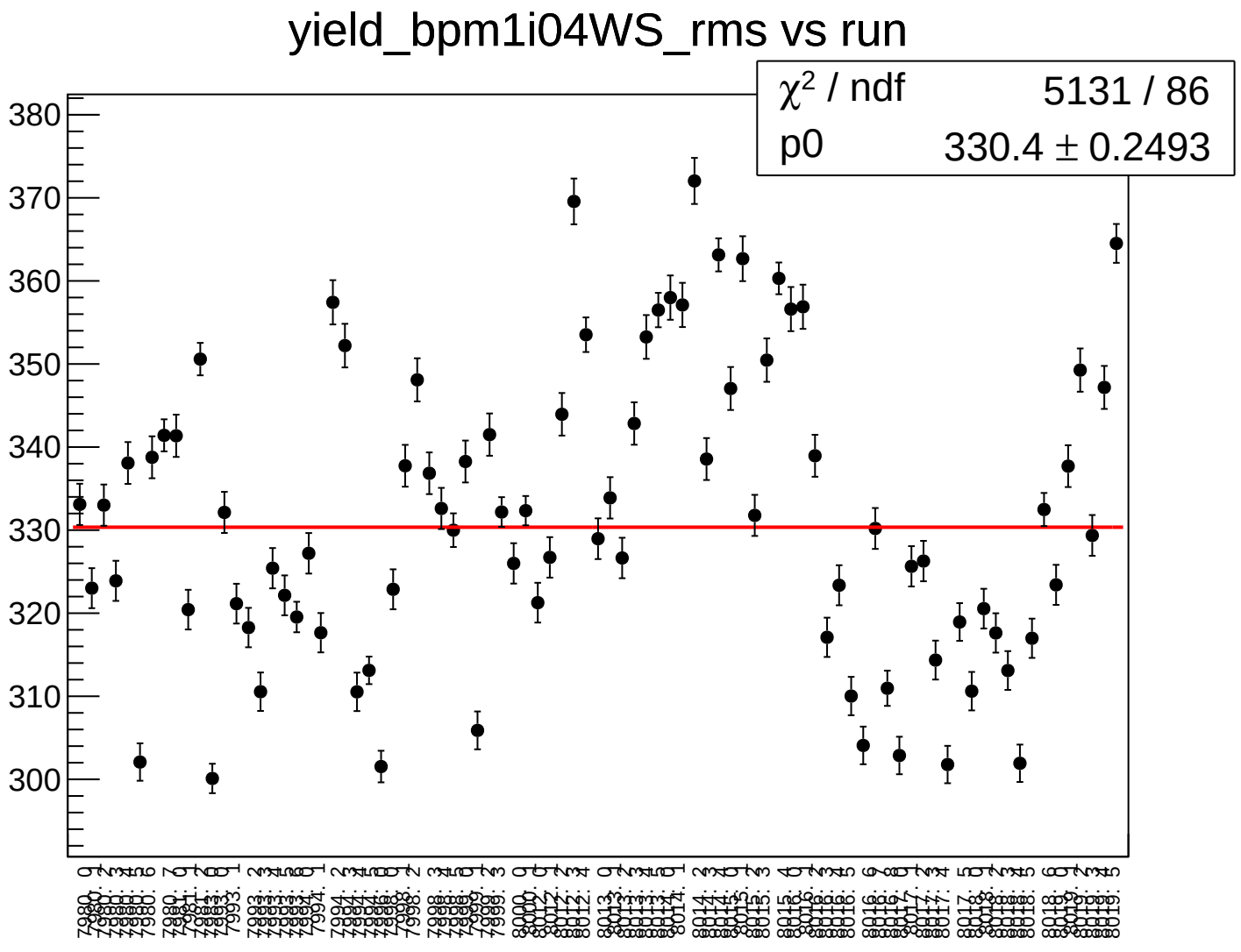

yield_bpm0i07WS_rms vs run
χ² / ndf 2.032e+04 / 86
p0 23.99 ± 0.01818
32
30
28
26
24
22
20
18

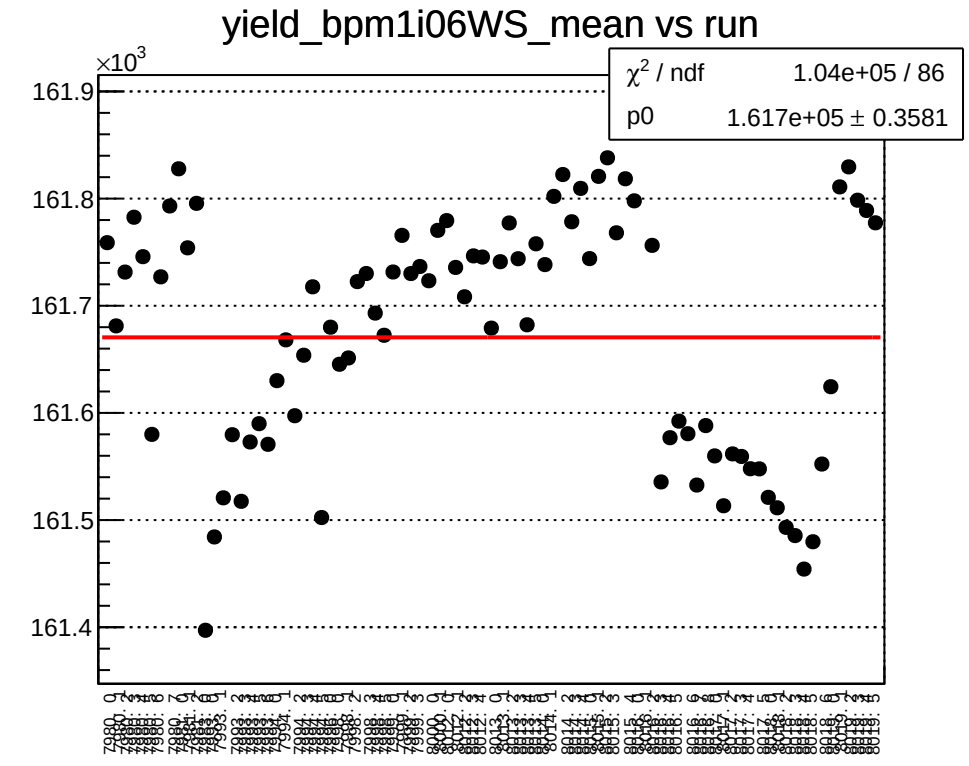

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 7.922e+04 / 86
p0 1.747e+05 ± 0.3351
174.95
174.9
174.85
174.8
174.75
174.7
174.65
174.6
174.55
pull
Entries 87
Mean −1996
Std Dev 0
100
80
60
40
20
0
−20
−40
pull1D
Entries 87
Mean −1.463
Std Dev 4.781
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

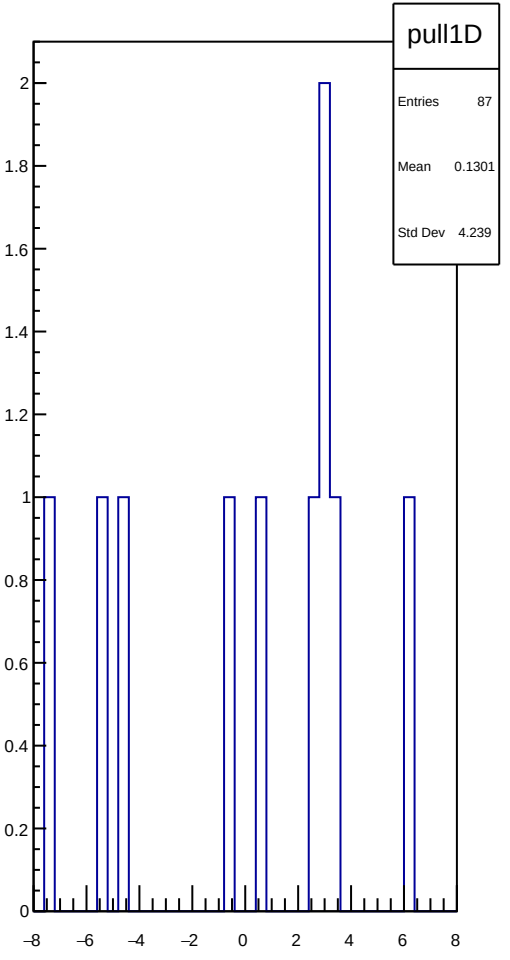

yield_bpm1i02WS_rms vs run
χ² / ndf 4078 / 86
p0 314 ± 0.2369
360
350
340
330
320
310
300
290
280

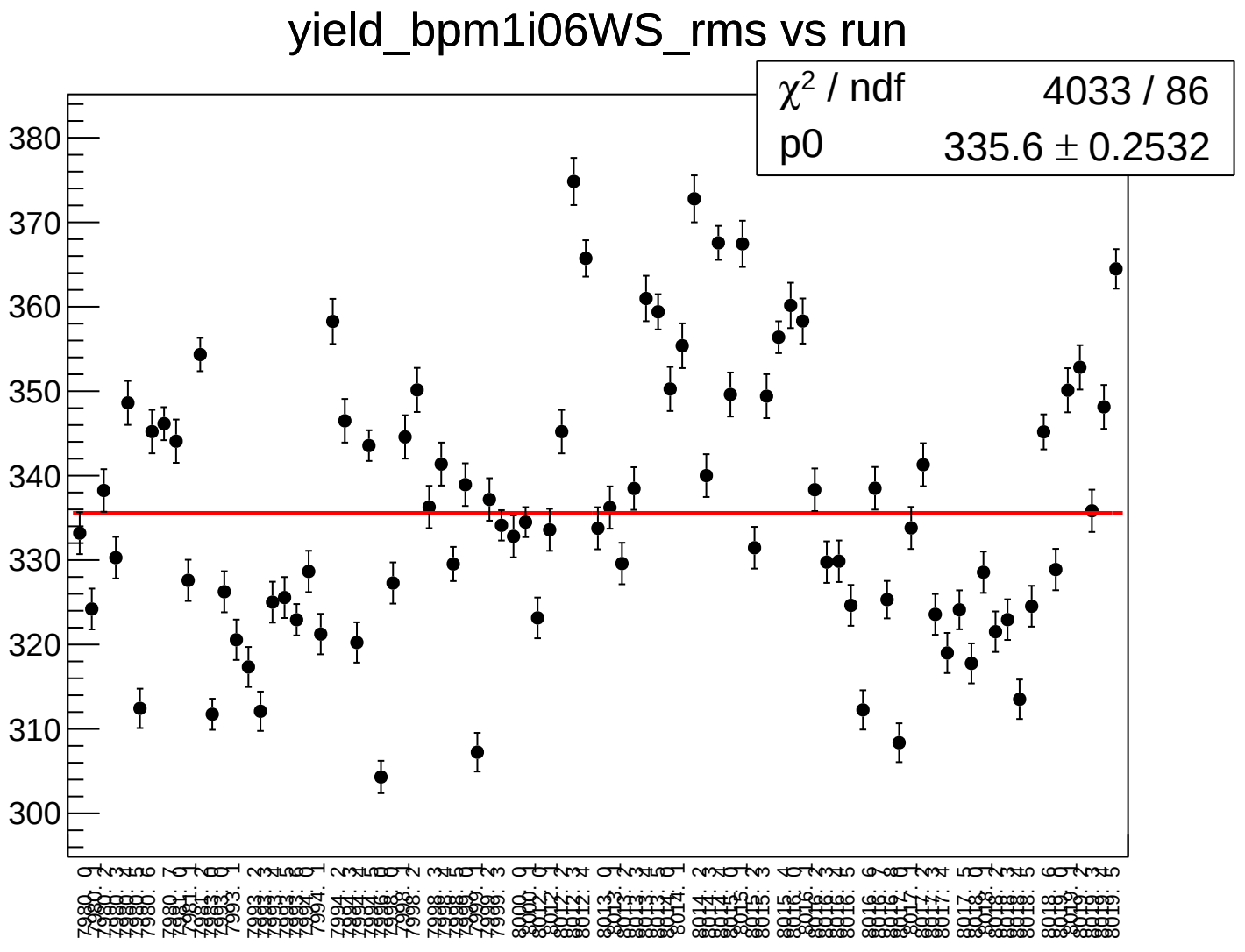

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 4.656e+04 / 86
p0 1.766e+05 ± 0.3526
176.85
176.8
176.75
176.7
176.65
176.6
176.55
176.5
pull
Entries 87
Mean 286.9
Std Dev 0
60
40
20
0
−20
−40

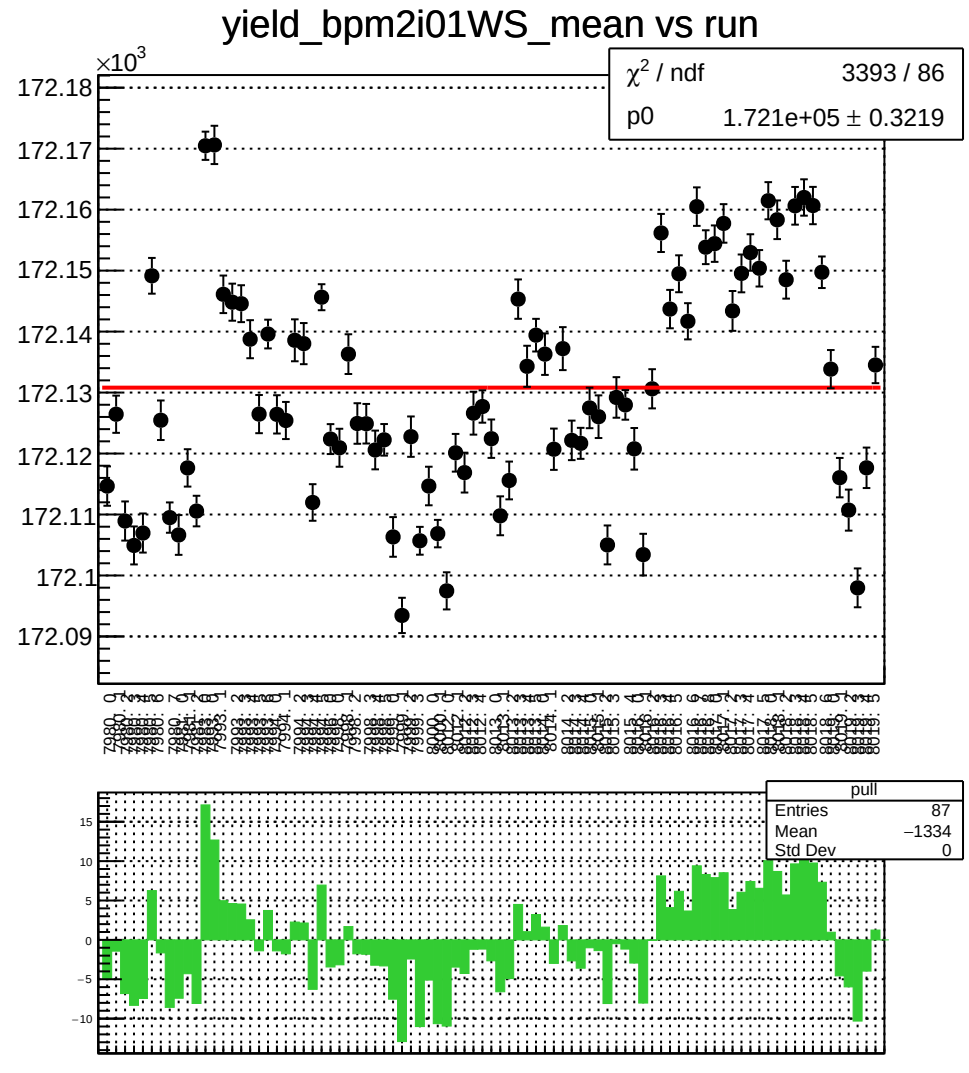

pull1D
Entries 87
Mean −0.2437
Std Dev 5.149
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

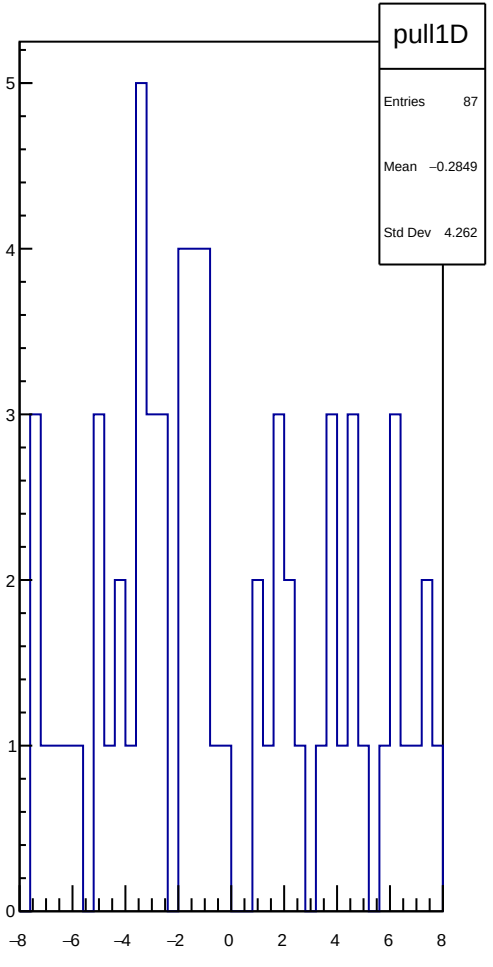

yield_bpm1i04WS_rms vs run
χ² / ndf 5131 / 86
p0 330.4 ± 0.2493
380
370
360
350
340
330
320
310
300

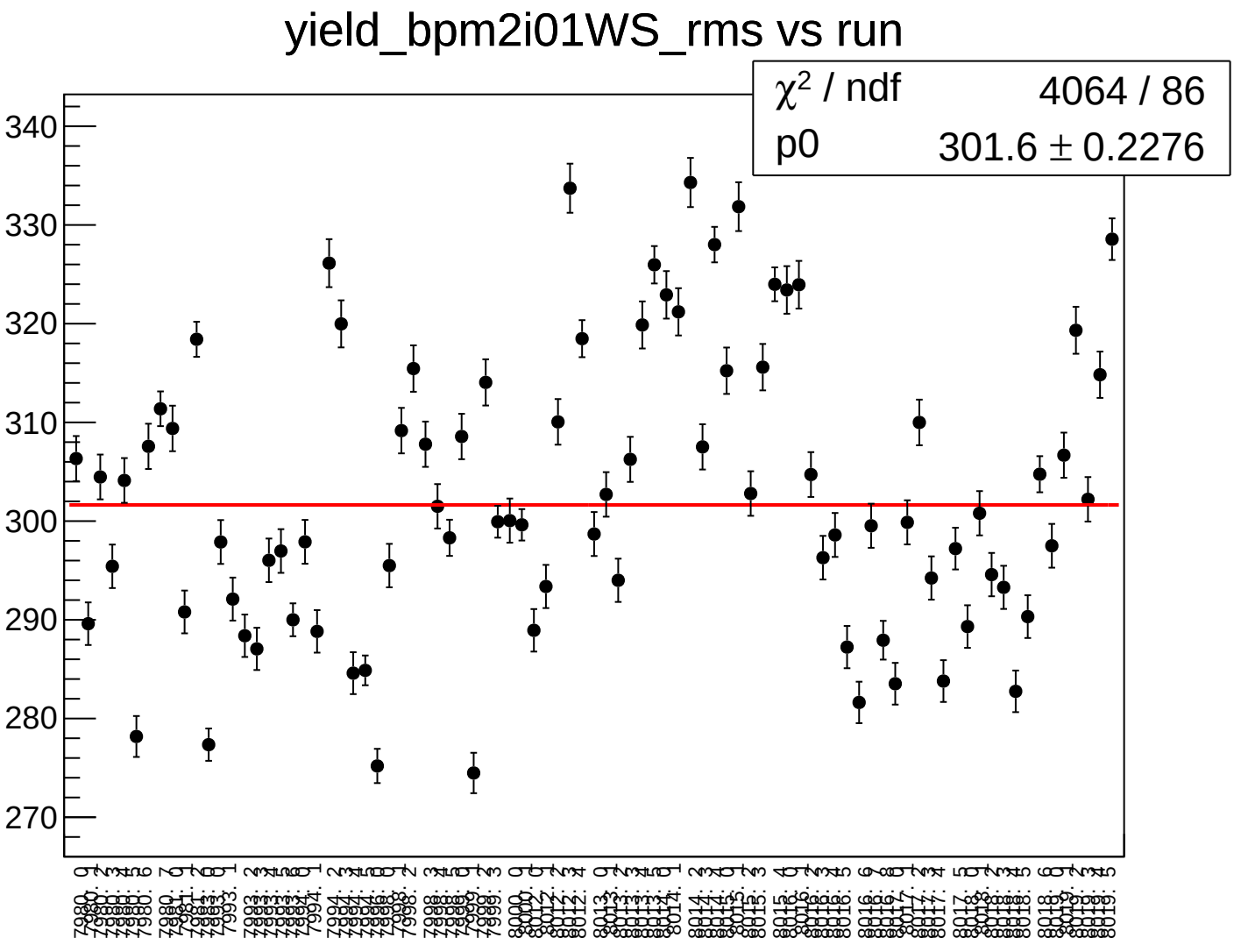

yield_bpm1i06WS_mean vs run
×10^3
χ^2 / ndf 1.04e+05 / 86
p0 1.617e+05 ± 0.3581
161.9
161.8
161.7
161.6
161.5
161.4
pull
Entries 87
Mean −92.77
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

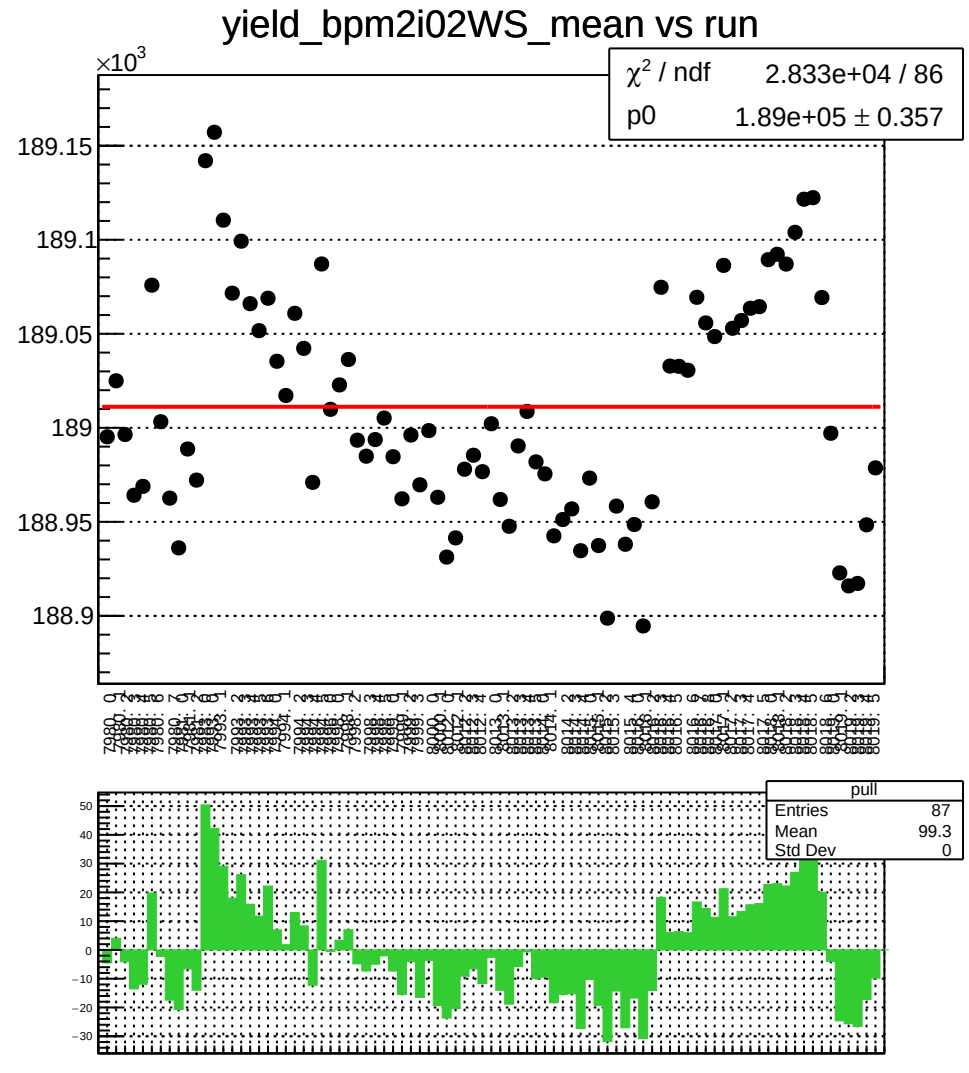

pull1D
Entries 87
Mean 0.1301
Std Dev 4.239
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

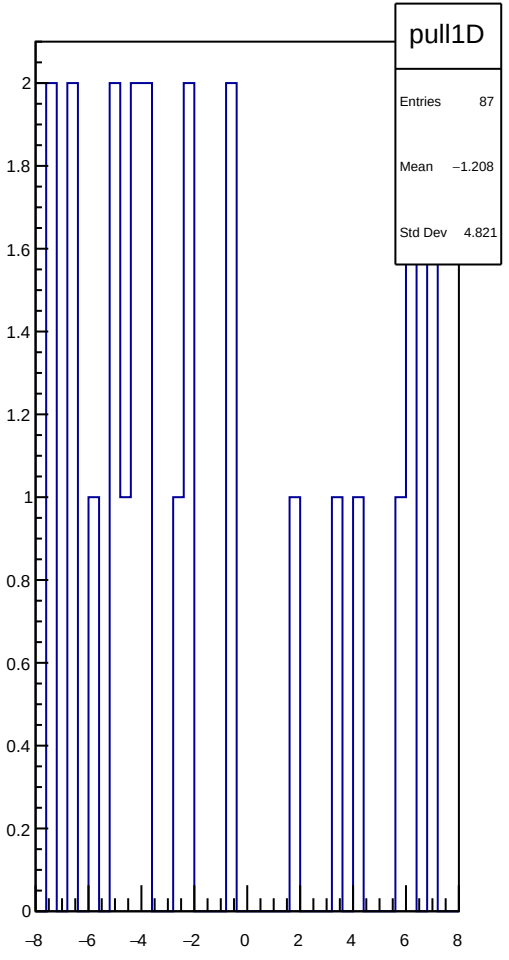

yield_bpm1i06WS_rms vs run
χ² / ndf 4033 / 86
p0 335.6 ± 0.2532
380
370
360
350
340
330
320
310
300

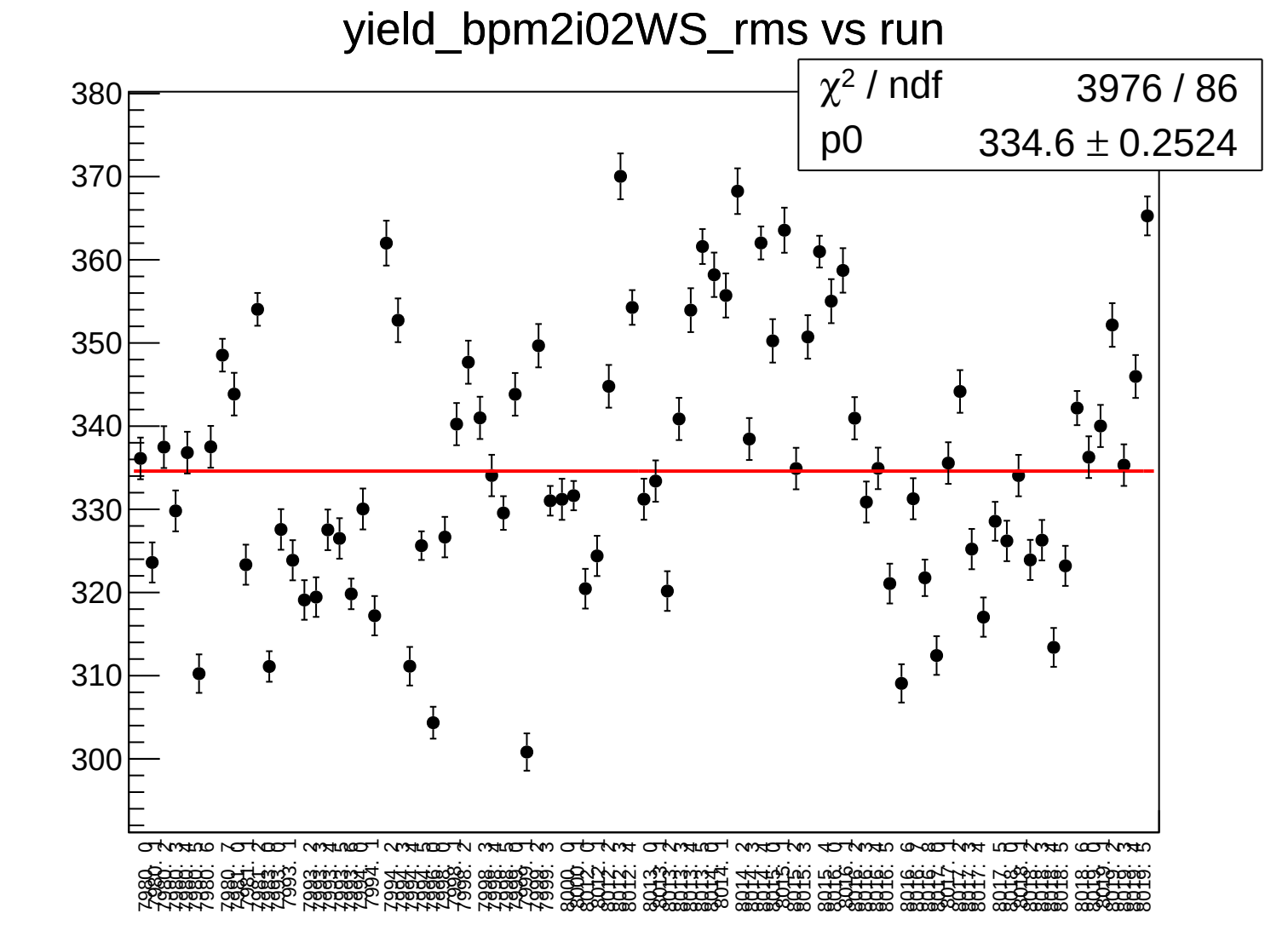

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3393 / 86
p0 1.721e+05 ± 0.3219
172.18
172.17
172.16
172.15
172.14
172.13
172.12
172.11
172.1
172.09
pull
Entries 87
Mean −1334
Std Dev 0
15
10
5
0
−5
−10

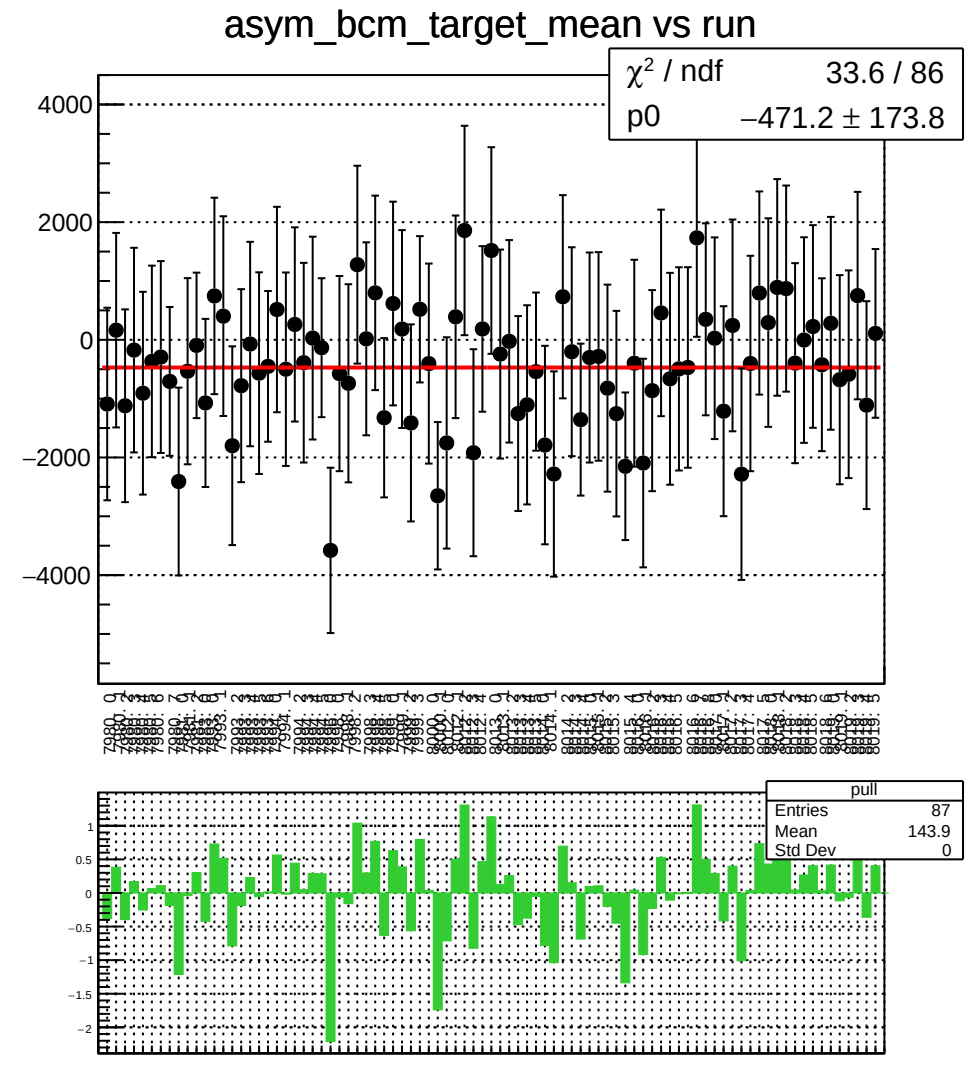

pull1D
Entries 87
Mean −0.2849
Std Dev 4.262
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

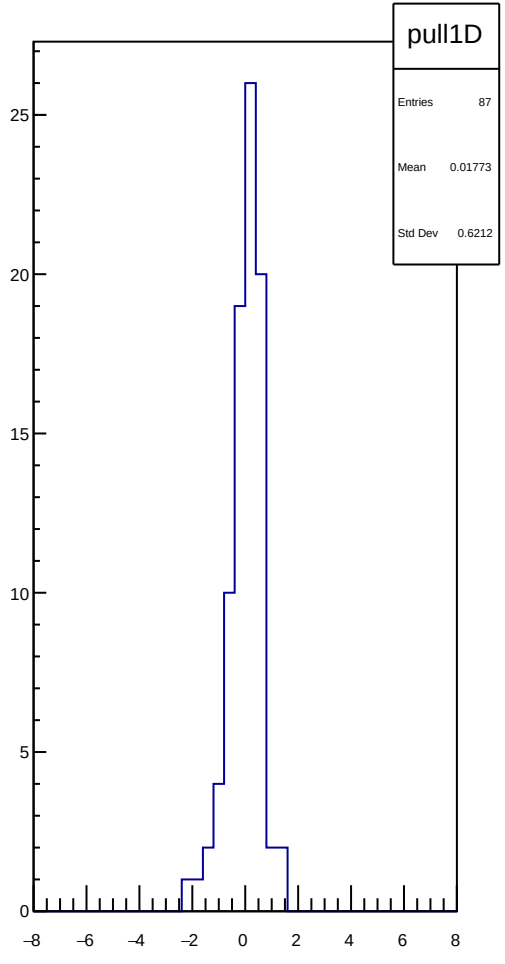

yield_bpm2i01WS_rms vs run
χ² / ndf 4064 / 86
p0 301.6 ± 0.2276
340
330
320
310
300
290
280
270

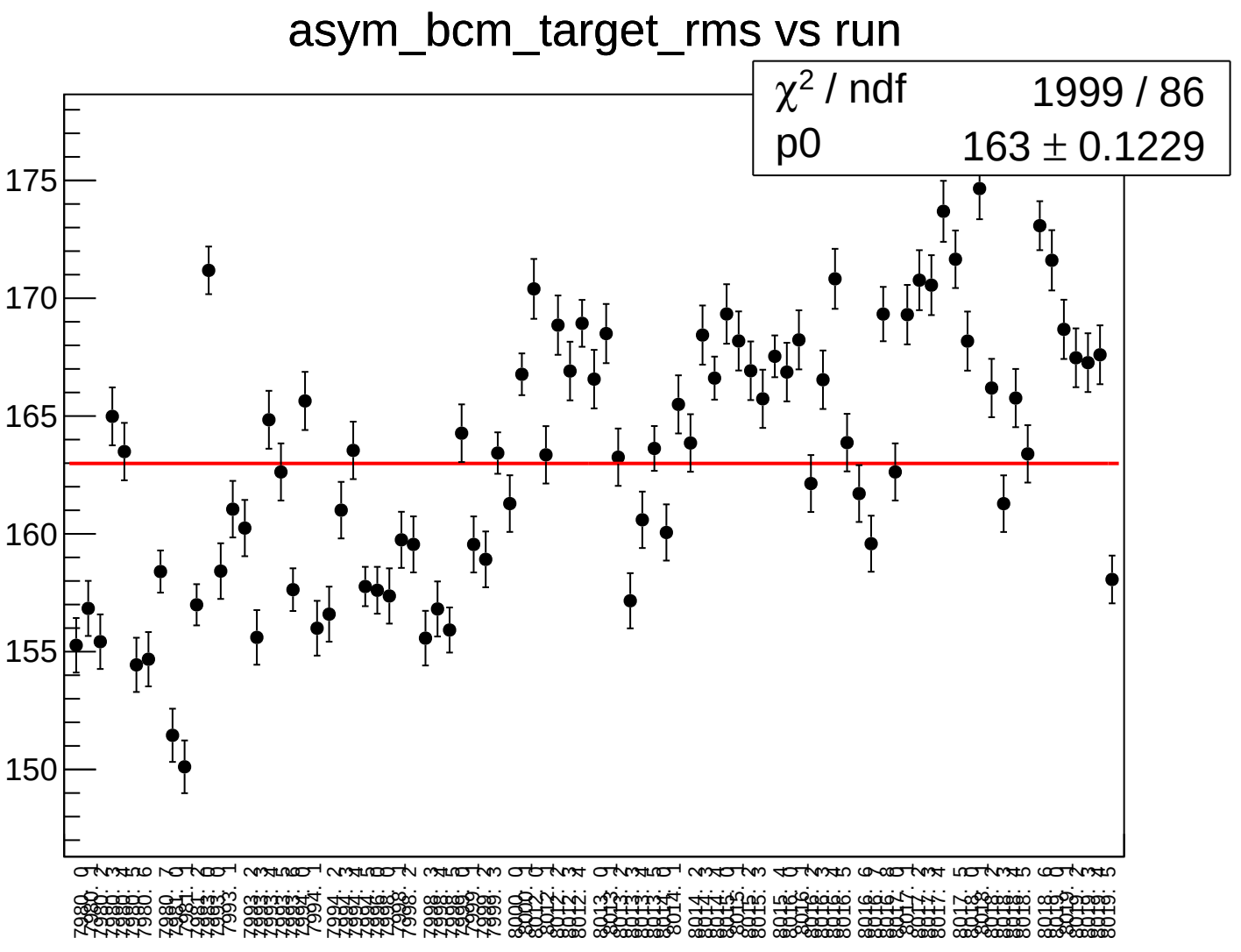

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.833e+04 / 86
p0 1.89e+05 ± 0.357
189.15
189.1
189.05
189
188.95
188.9
pull
Entries 87
Mean 99.3
Std Dev 0
50
40
30
20
10
0
−10
−20
−30

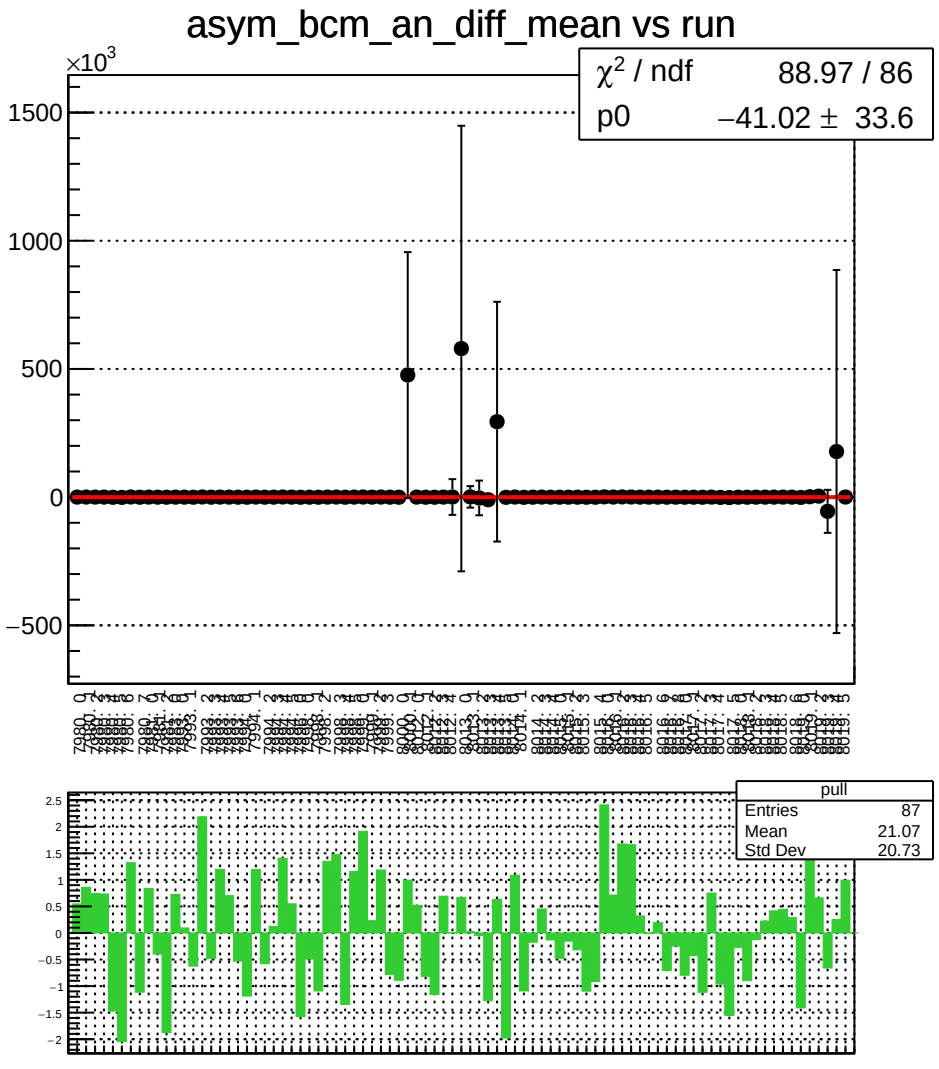

pull1D
Entries 87
Mean −1.208
Std Dev 4.821
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

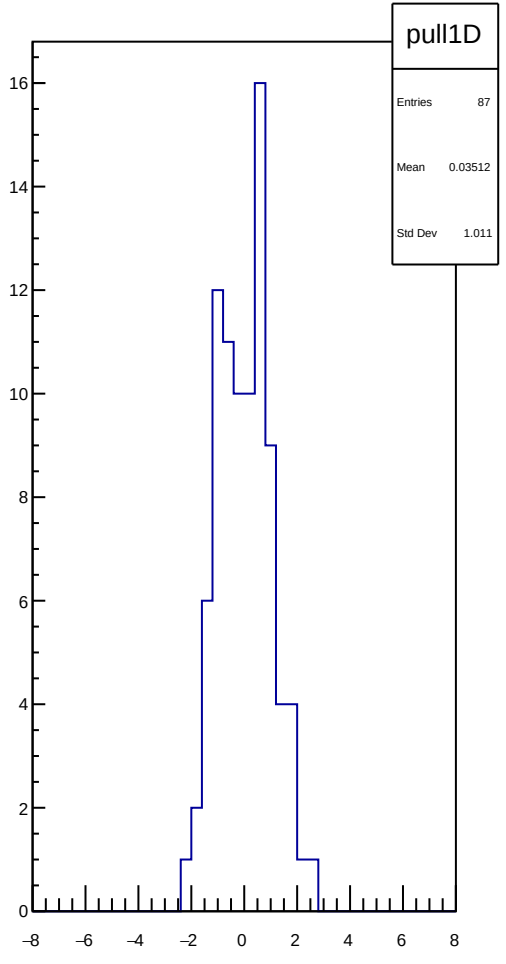

yield_bpm2i02WS_rms vs run
χ² / ndf 3976 / 86
p0 334.6 ± 0.2524
380
370
360
350
340
330
320
310
300

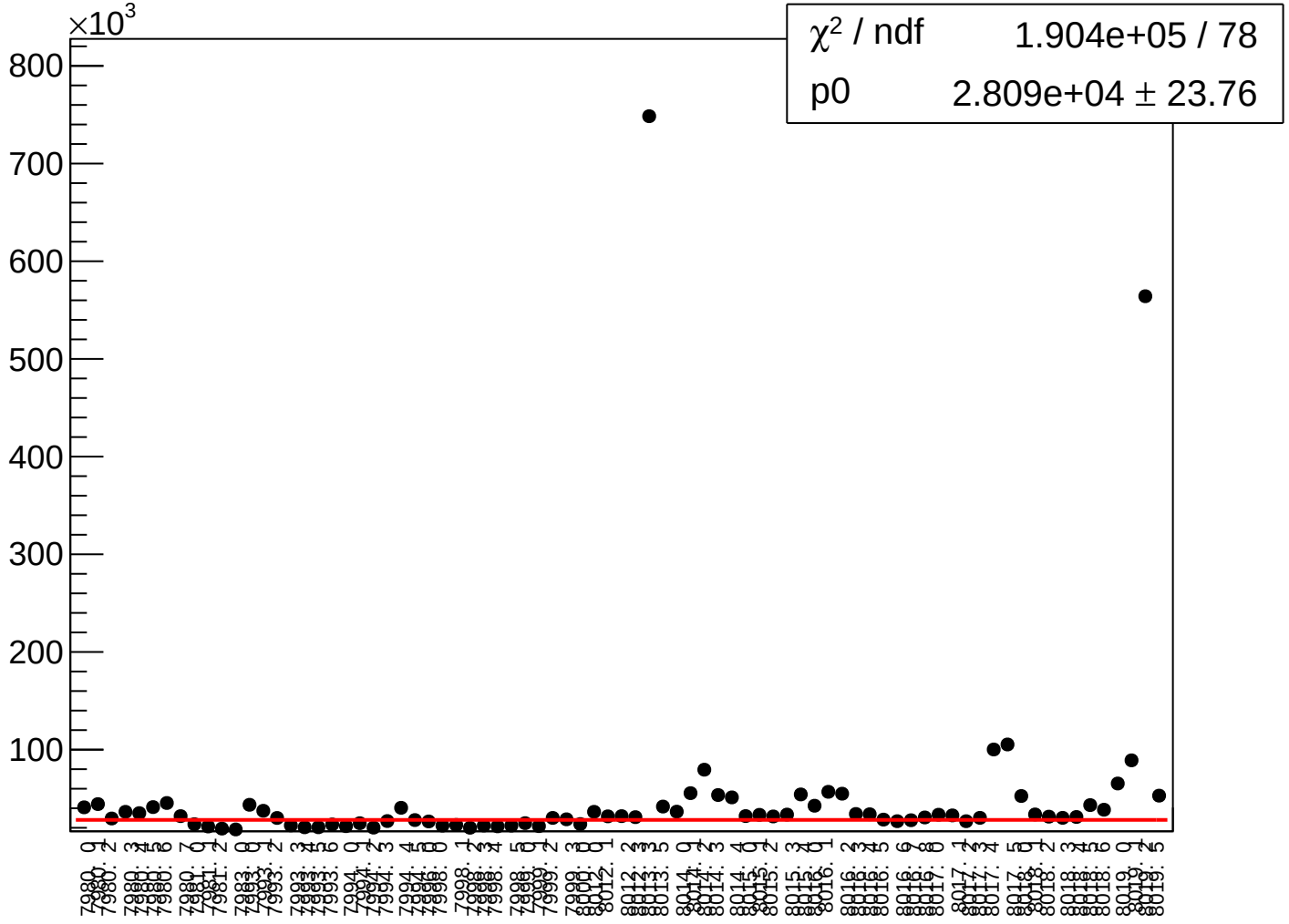

asym_bcm_target_mean vs run
χ² / ndf 33.6 / 86
p0 −471.2 ± 173.8
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 143.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

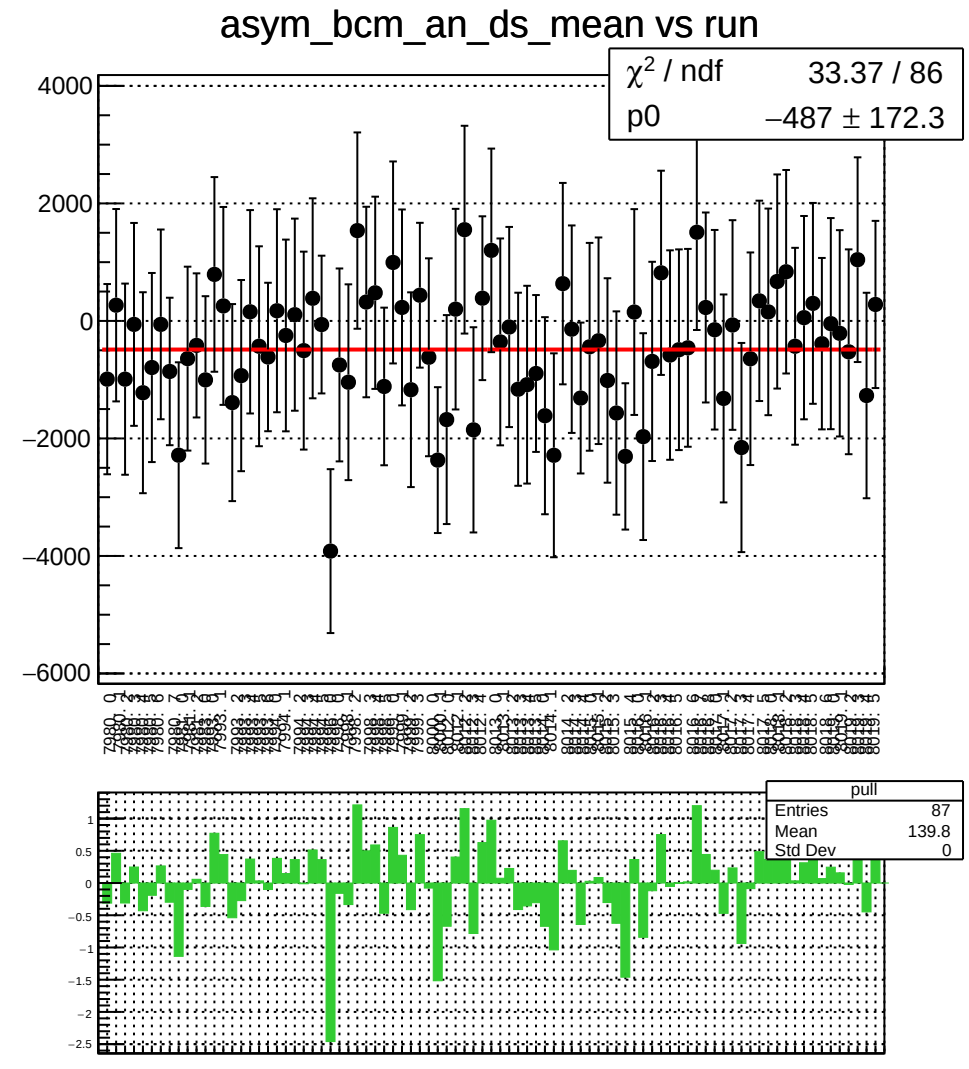

pull1D
Entries 87
Mean 0.01773
Std Dev 0.6212
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

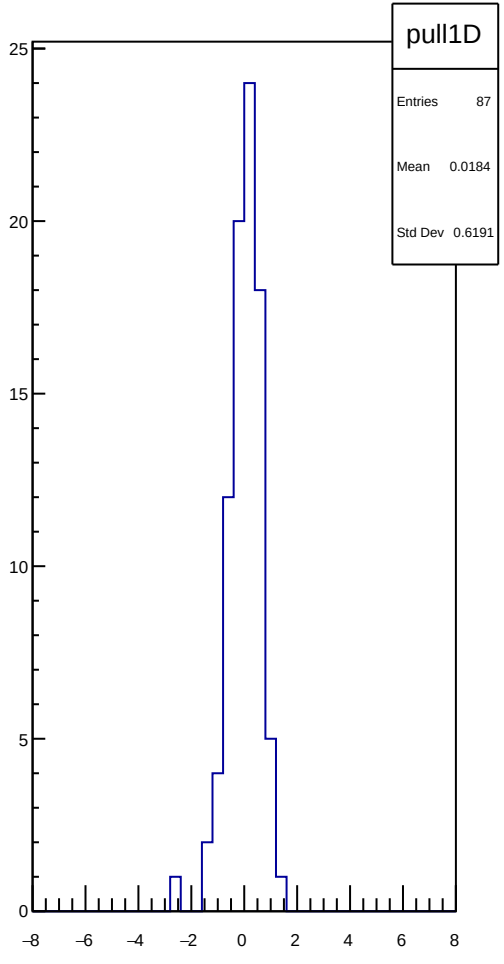

asym_bcm_target_rms vs run
χ^2 / ndf 1999 / 86
p0 163 ± 0.1229
175
170
165
160
155
150

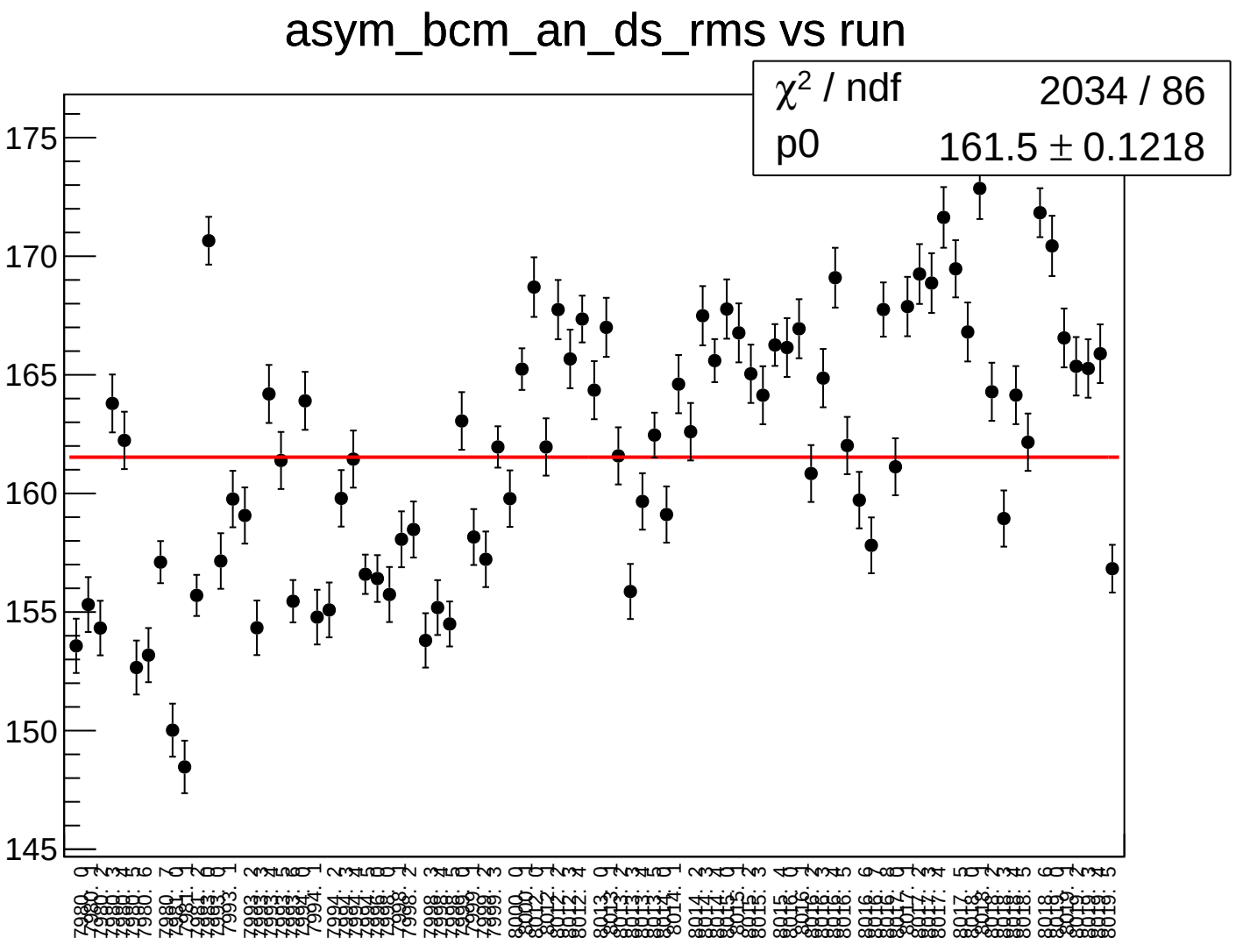

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 88.97 / 86
p0 −41.02 ± 33.6
1500
1000
500
0
−500
pull
Entries 87
Mean 21.07
Std Dev 20.73
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

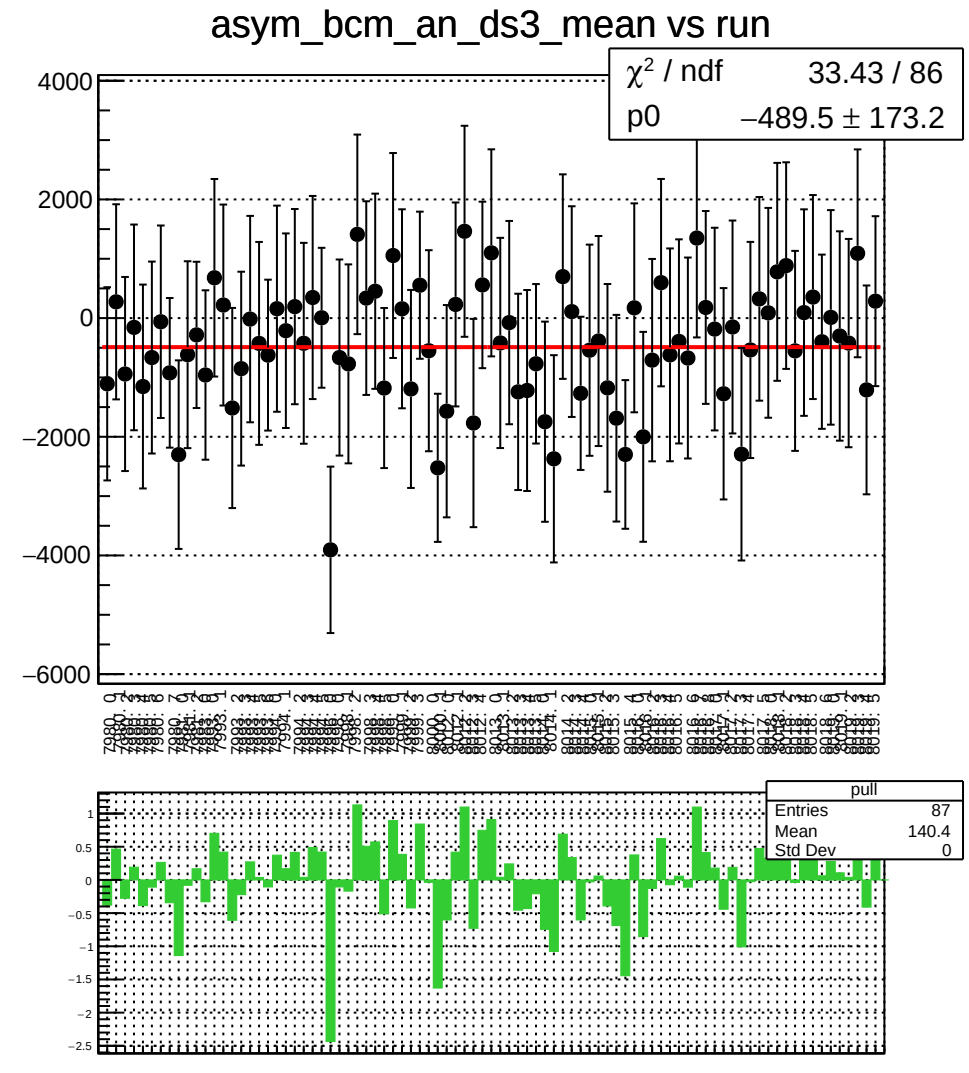

pull1D
Entries 87
Mean 0.03512
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

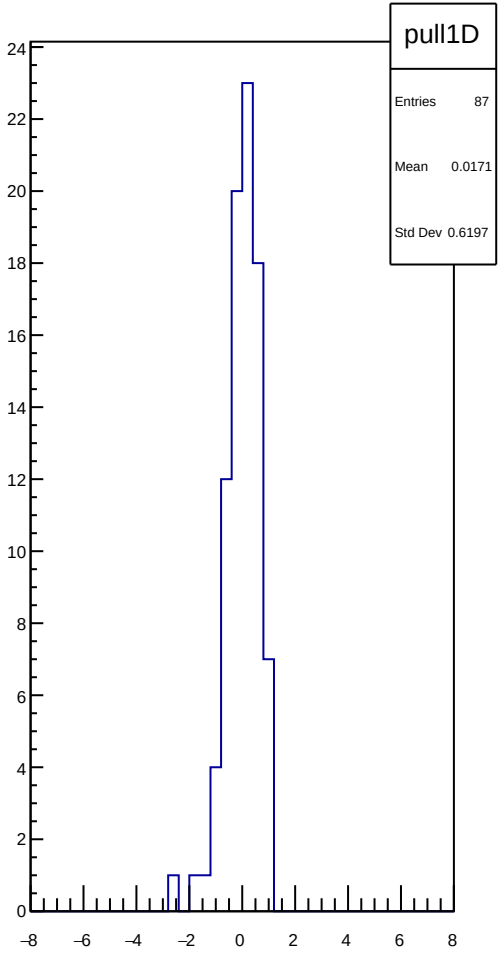

asym_bcm_an_diff_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.904e+05 / 78
p0 2.809e+04 ± 23.76

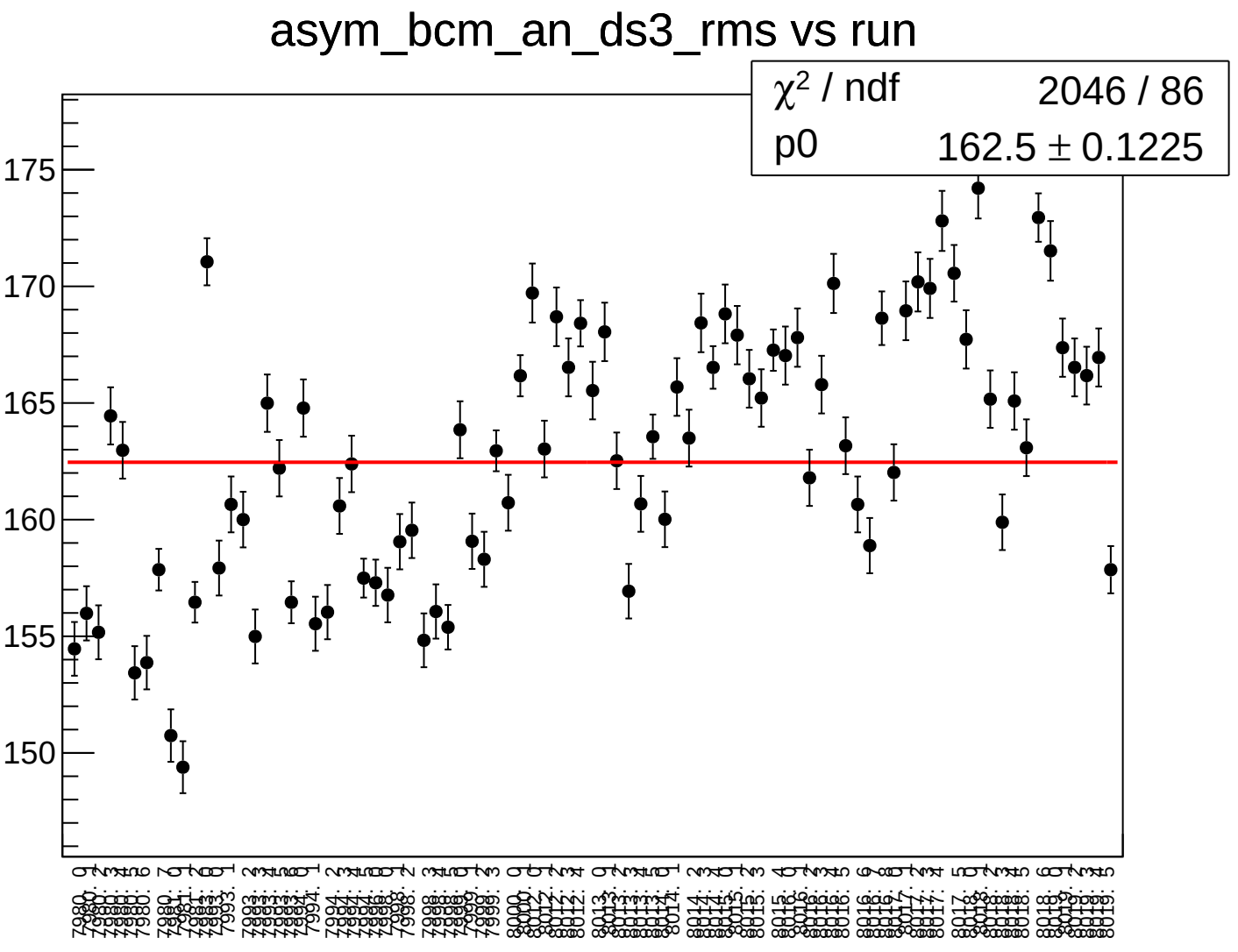

asym_bcm_an_ds_mean vs run
χ² / ndf 33.37 / 86
p0 −487 ± 172.3
pull
Entries 87
Mean 139.8
Std Dev 0

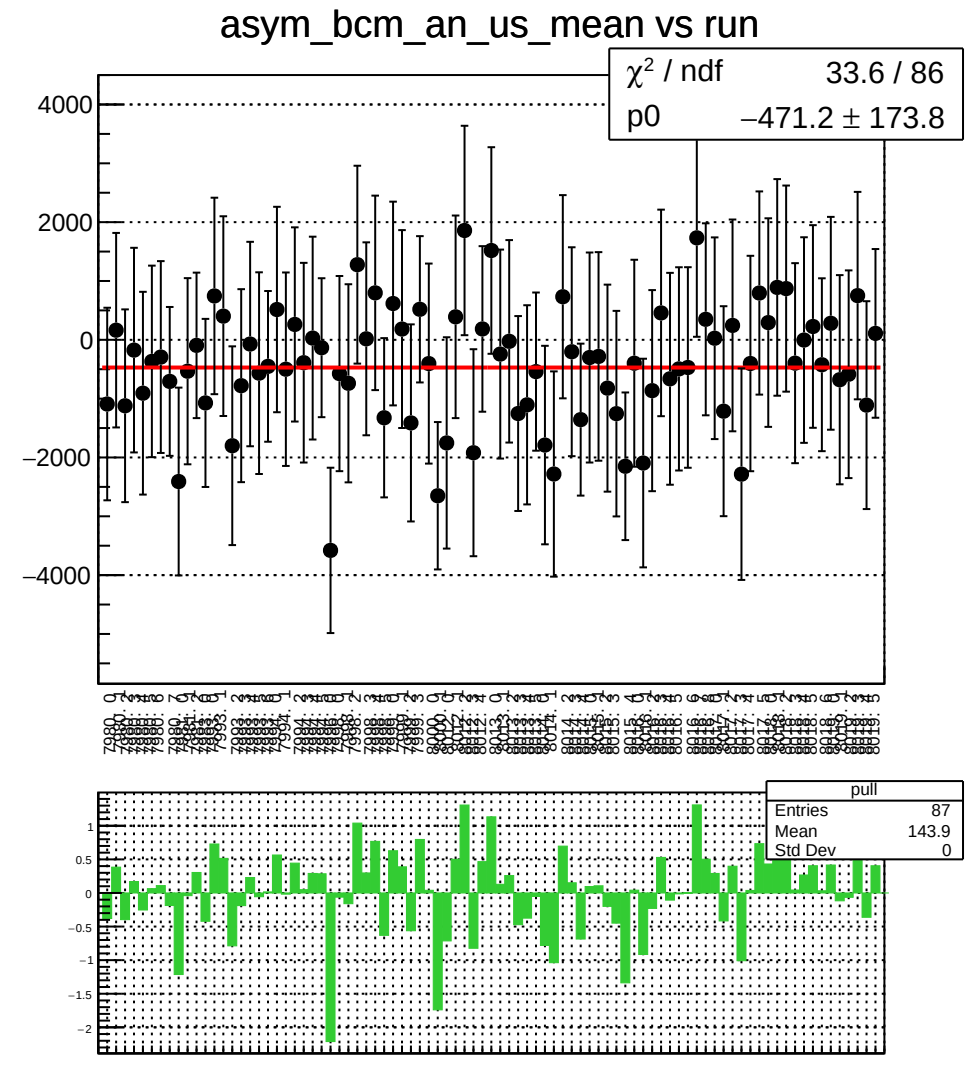

pull1D
Entries 87
Mean 0.0184
Std Dev 0.6191

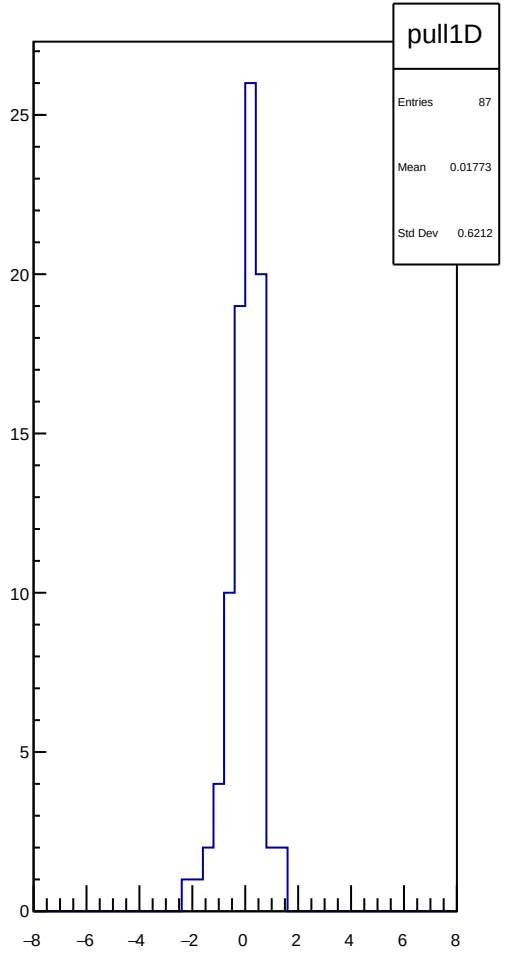

asym_bcm_an_ds_rms vs run
χ² / ndf 2034 / 86
p0 161.5 ± 0.1218
175
170
165
160
155
150
145

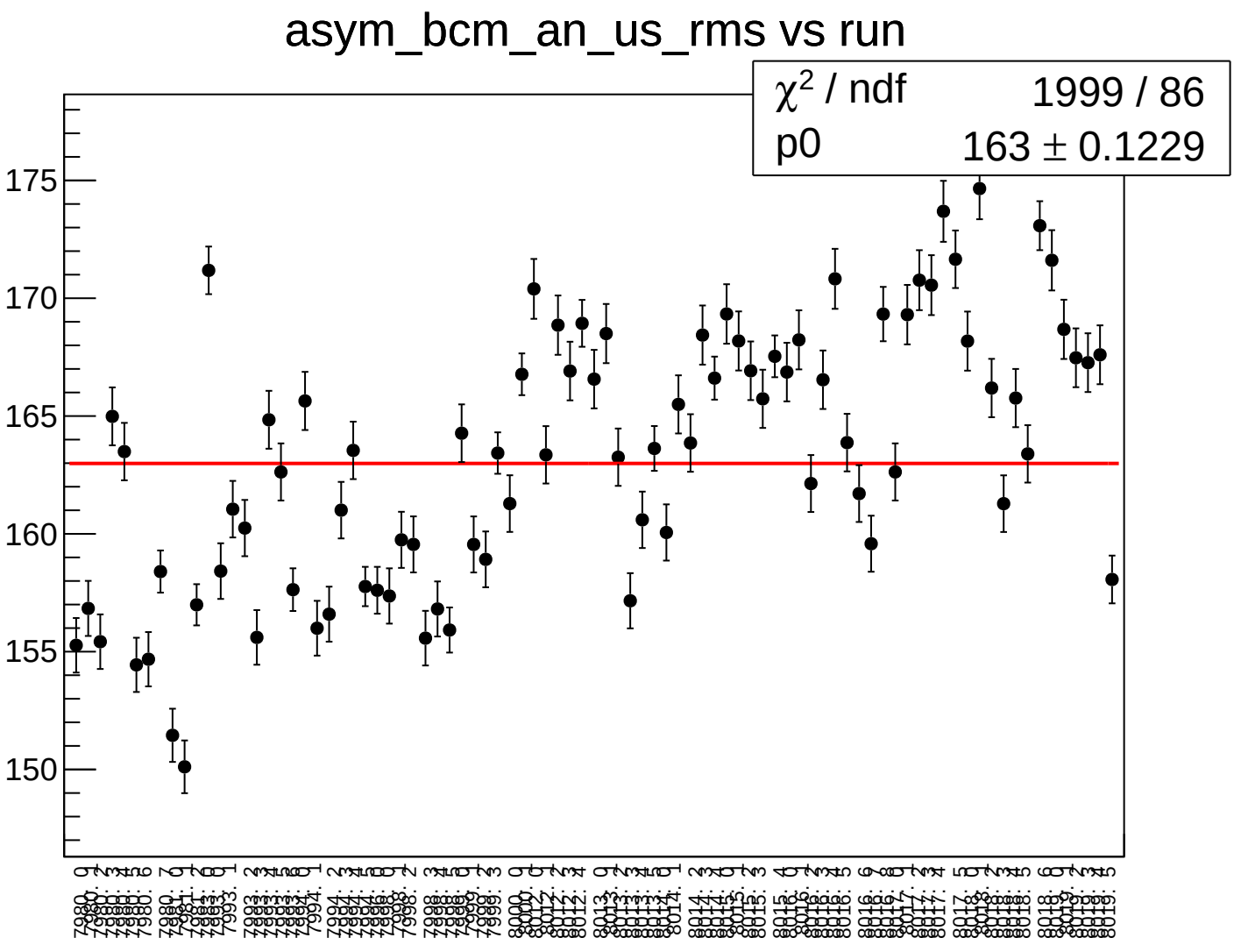

asym_bcm_an_ds3_mean vs run
χ² / ndf 33.43 / 86
p0 −489.5 ± 173.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 140.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

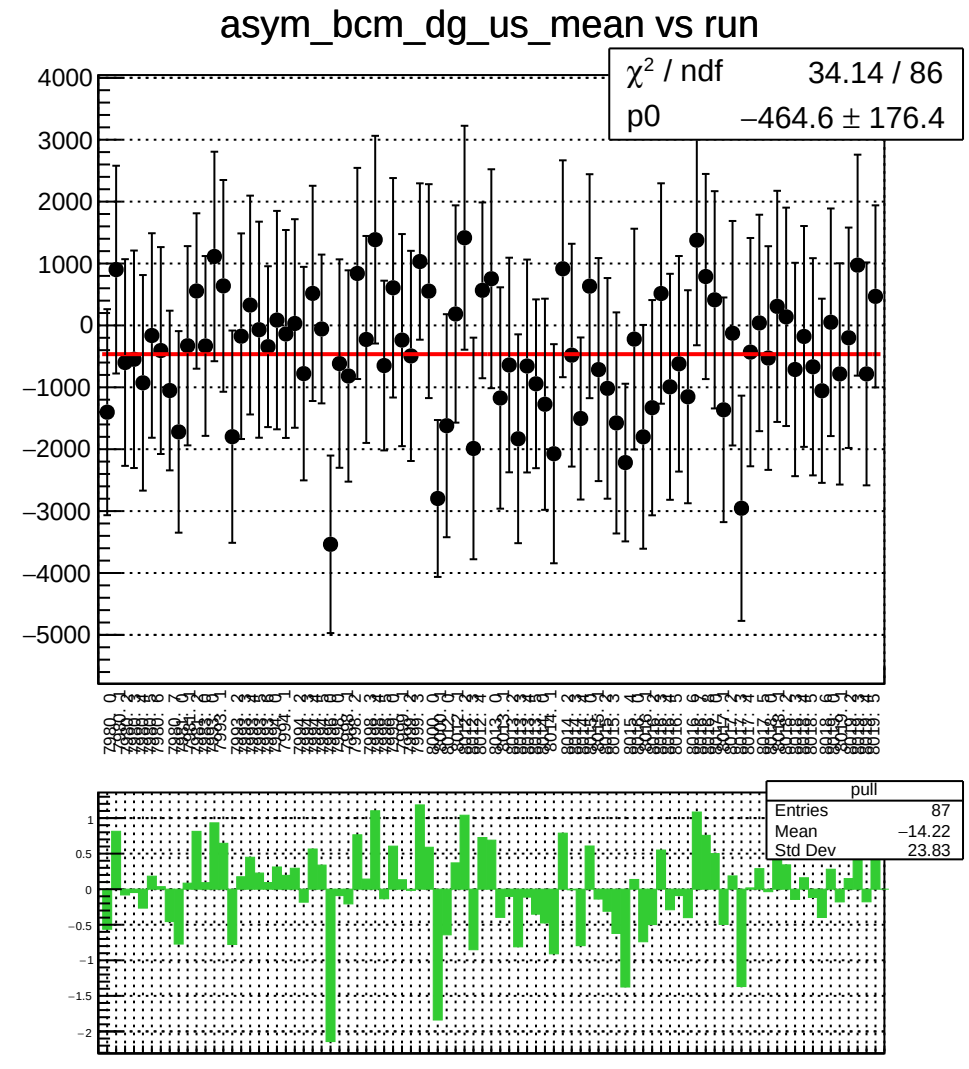

pull1D
Entries 87
Mean 0.0171
Std Dev 0.6197
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

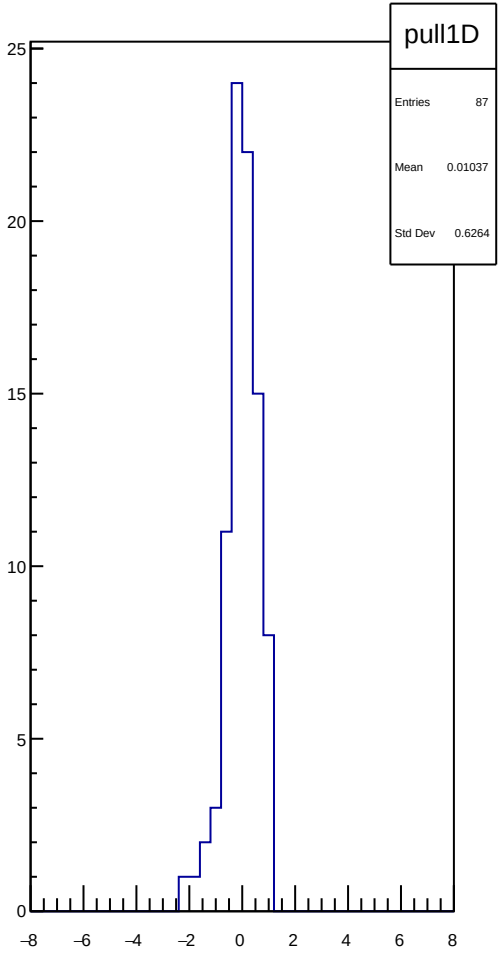

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 2046 / 86
p0 162.5 ± 0.1225
175
170
165
160
155
150

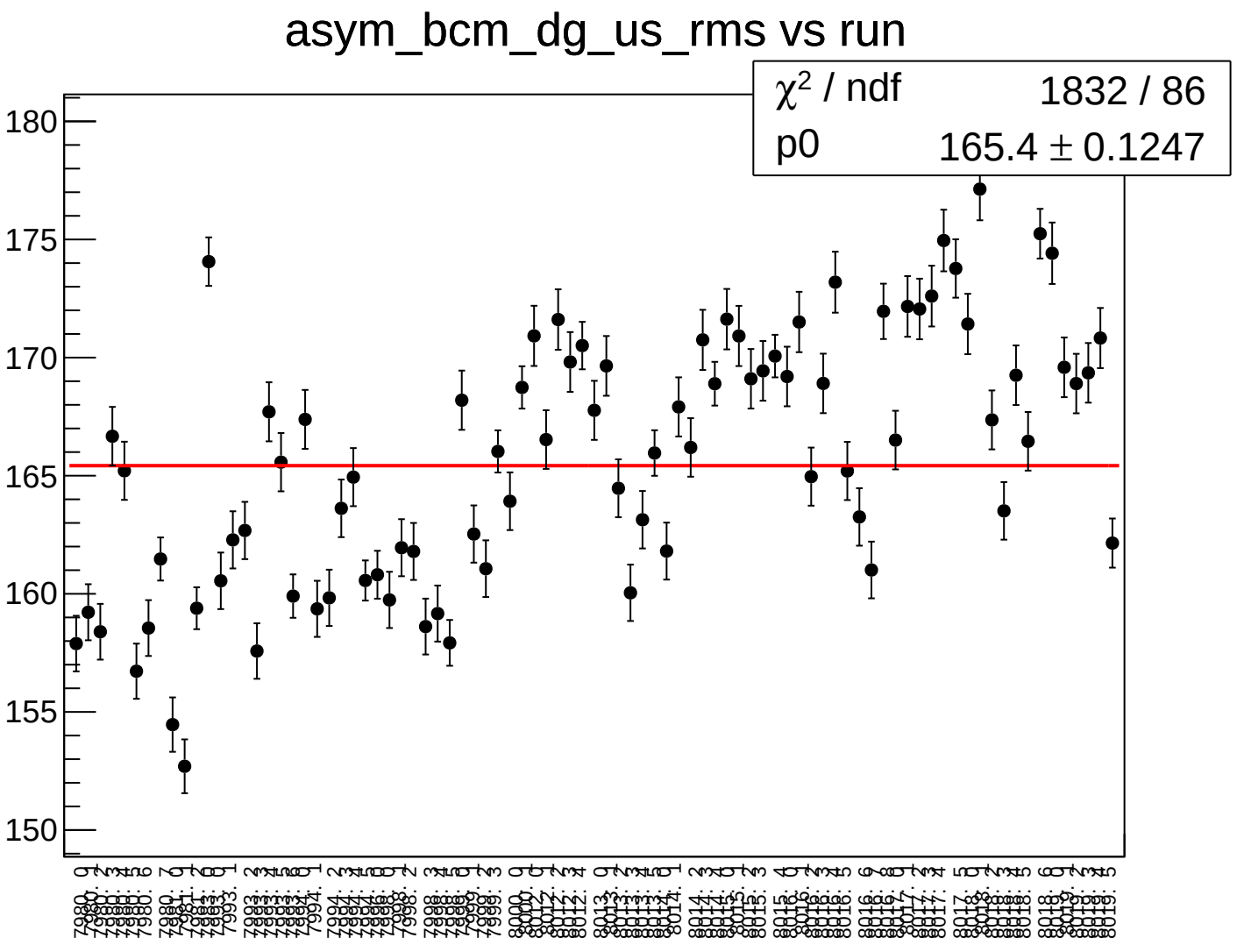

asym_bcm_an_us_mean vs run
χ² / ndf 33.6 / 86
p0 −471.2 ± 173.8
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 143.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

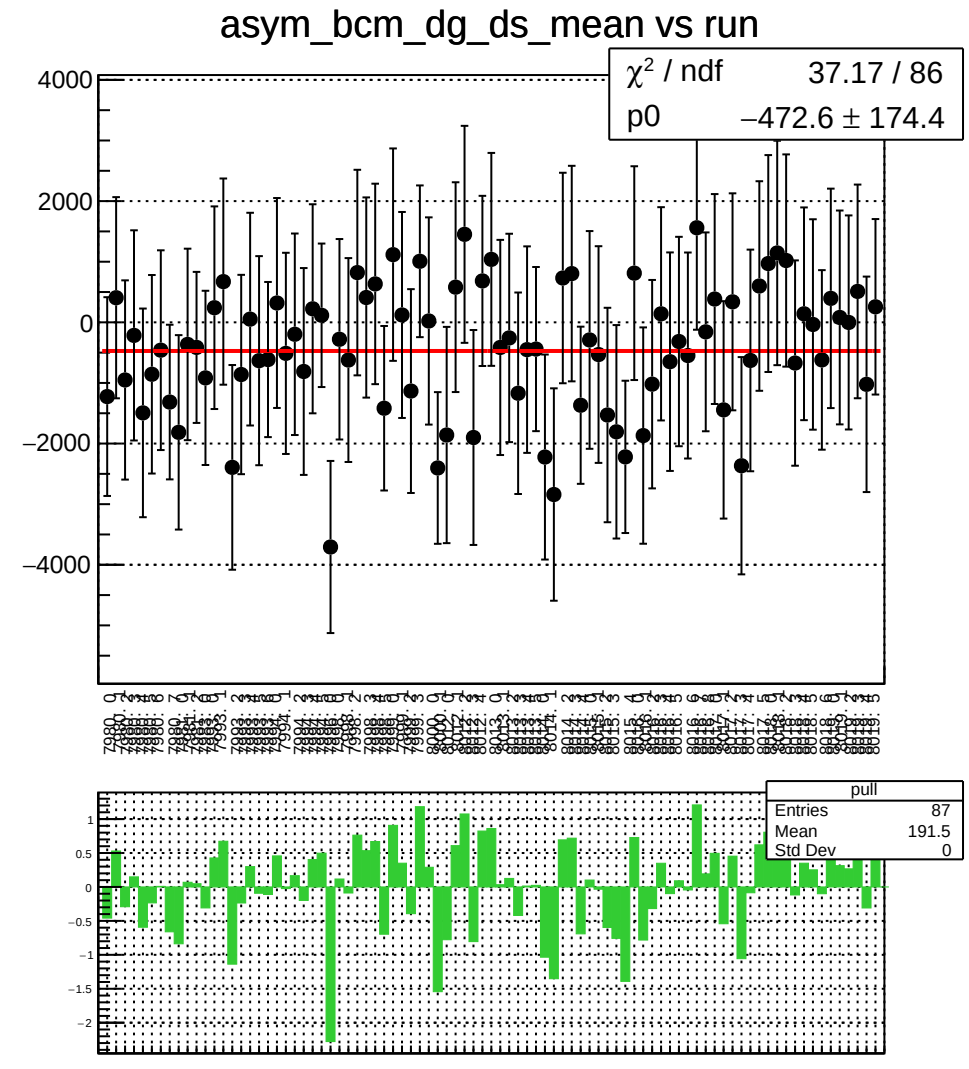

pull1D
Entries 87
Mean 0.01773
Std Dev 0.6212
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

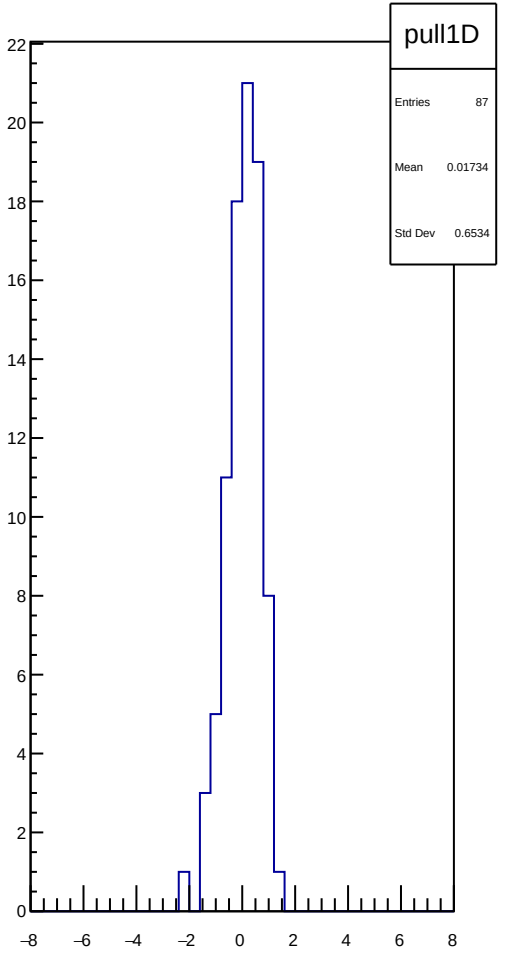

asym_bcm_an_us_rms vs run
χ^2 / ndf 1999 / 86
p0 163 ± 0.1229
175
170
165
160
155
150

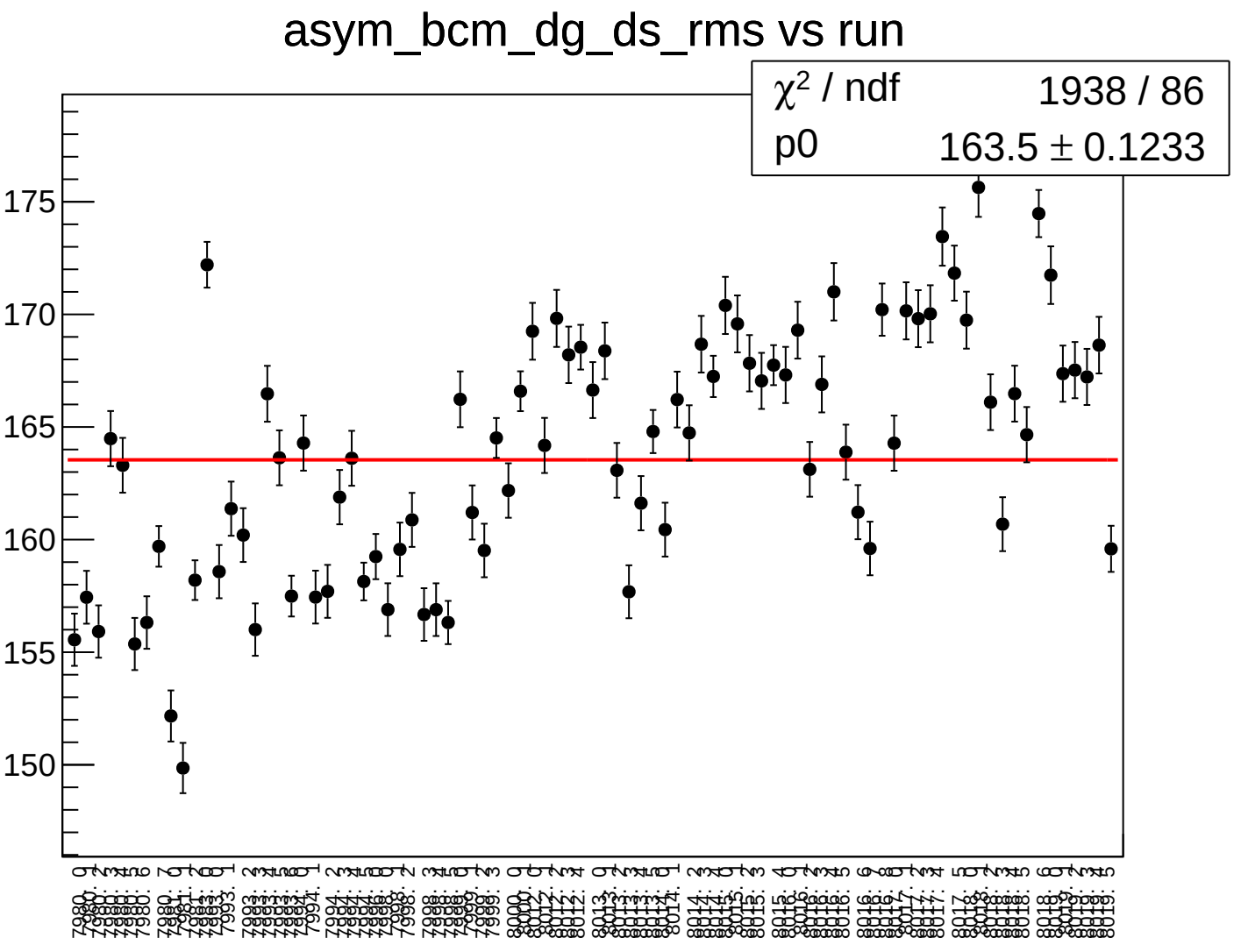

asym_bcm_dg_us_mean vs run
χ² / ndf 34.14 / 86
p0 −464.6 ± 176.4
pull
Entries 87
Mean −14.22
Std Dev 23.83

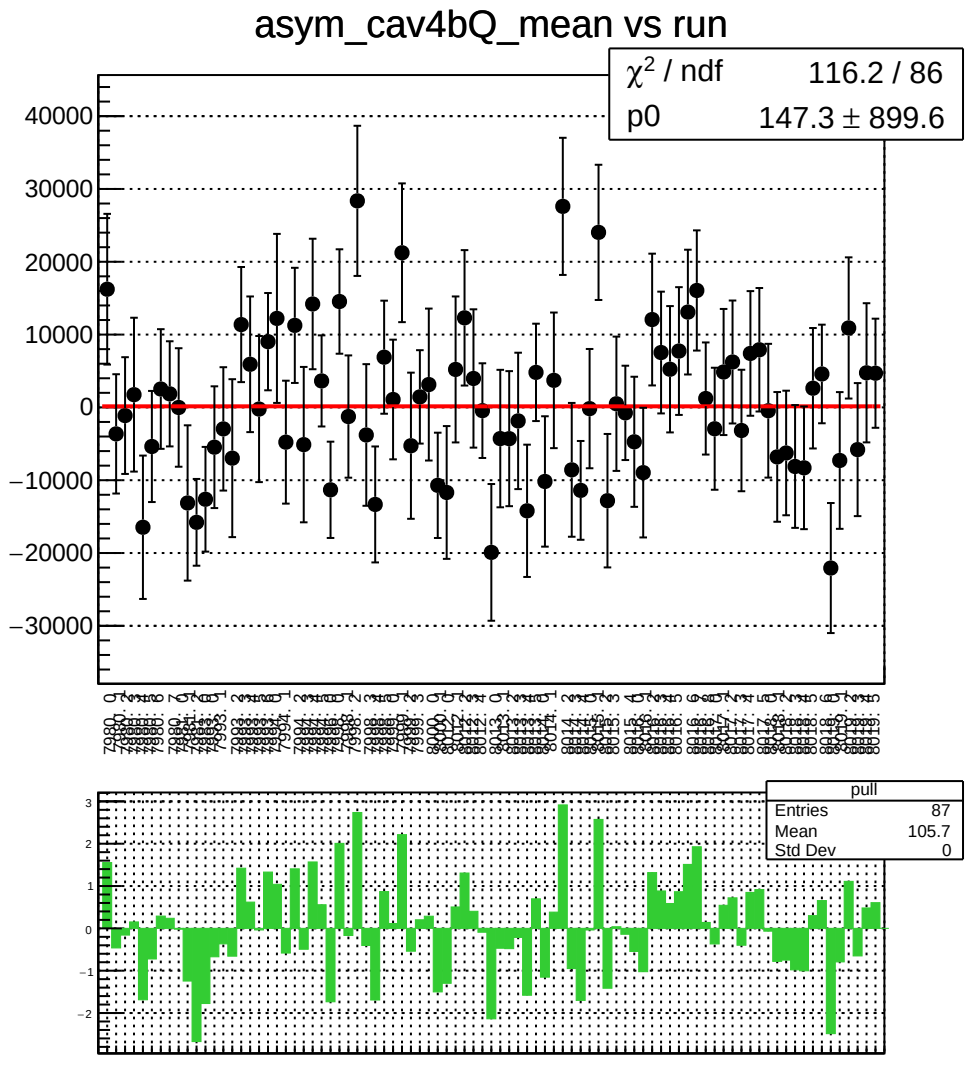

pull1D
Entries 87
Mean 0.01037
Std Dev 0.6264

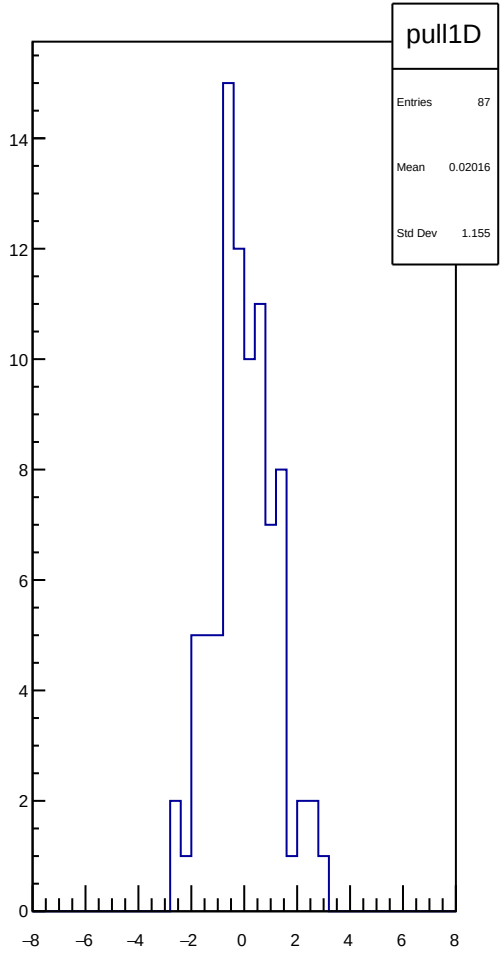

asym_bcm_dg_us_rms vs run
χ² / ndf 1832 / 86
p0 165.4 ± 0.1247
180
175
170
165
160
155
150

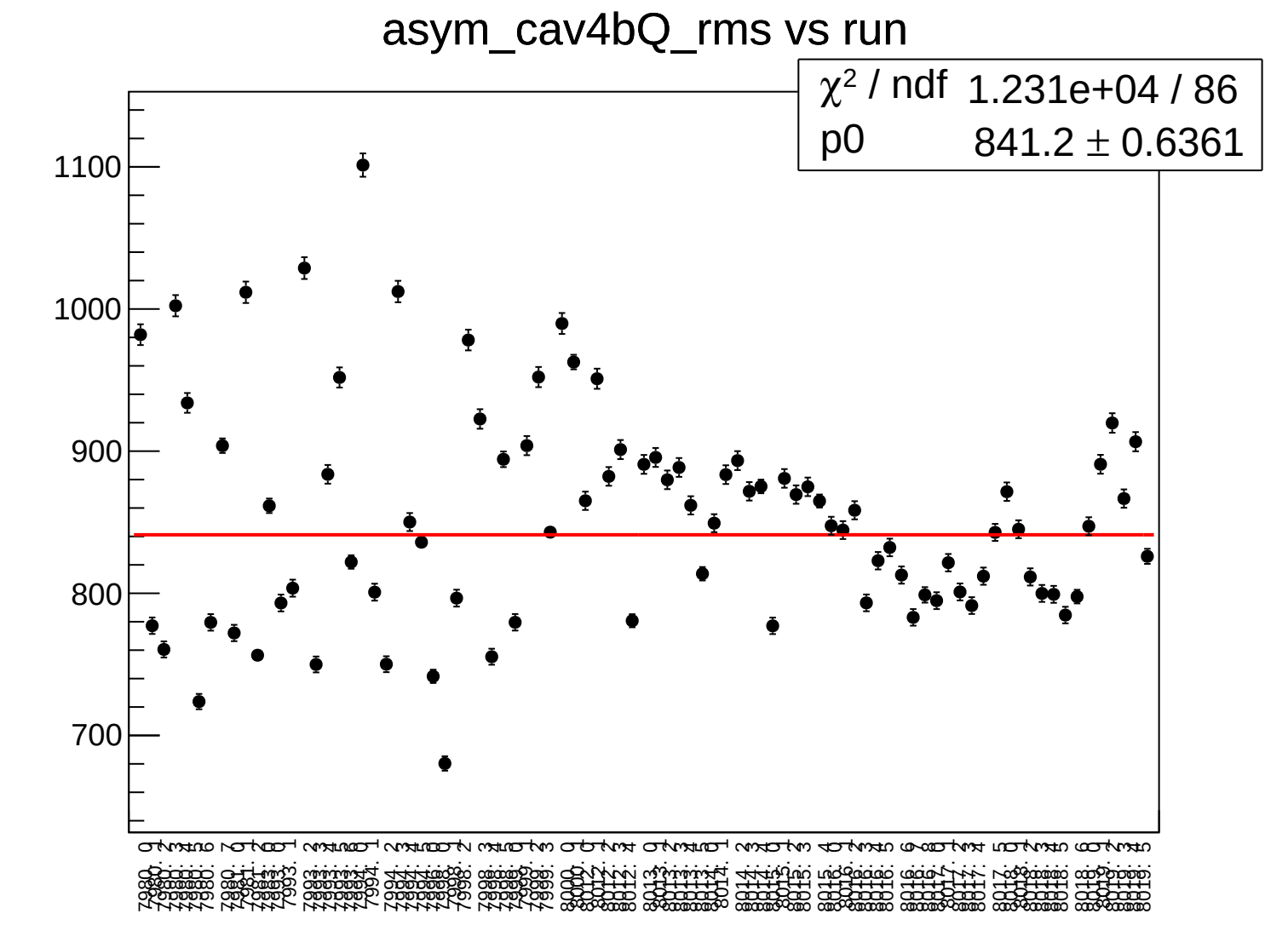

asym_bcm_dg_ds_mean vs run
χ² / ndf 37.17 / 86
p0 −472.6 ± 174.4
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 191.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

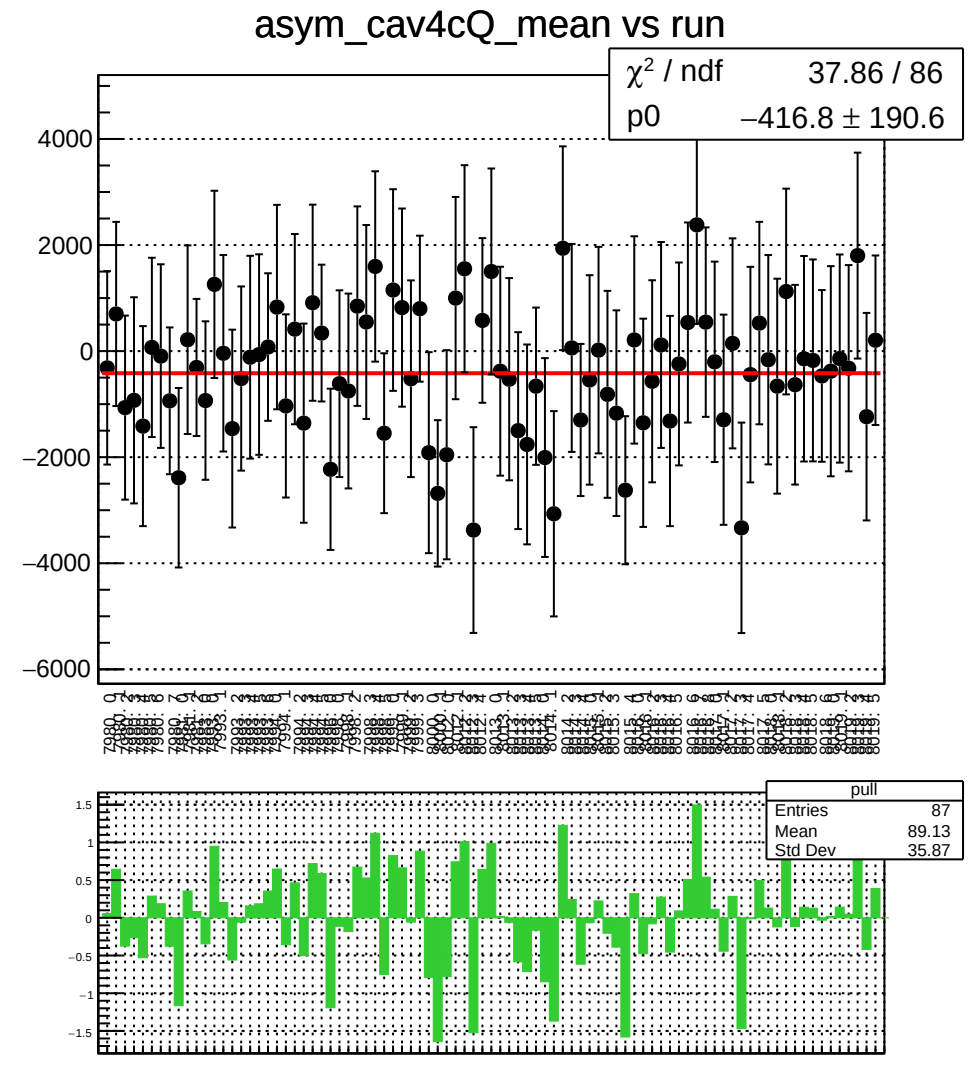

pull1D
Entries 87
Mean 0.01734
Std Dev 0.6534
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

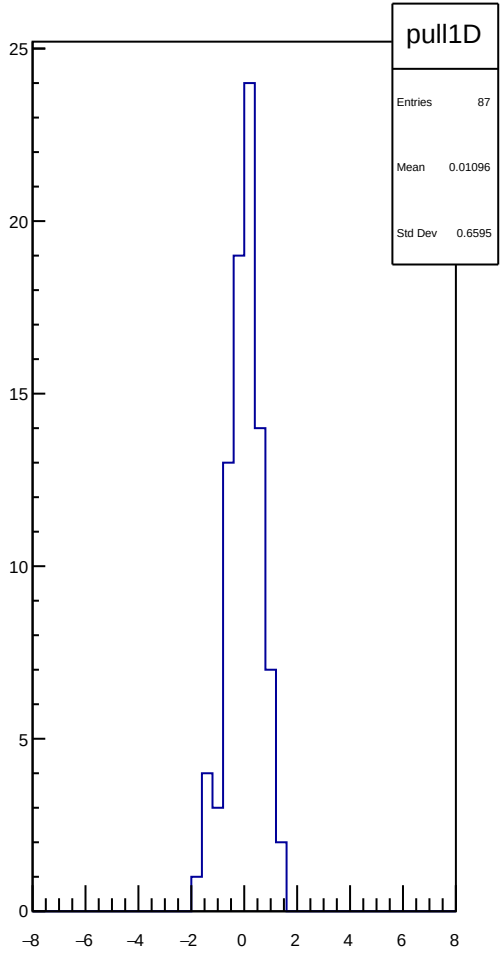

asym_bcm_dg_ds_rms vs run
χ² / ndf 1938 / 86
p0 163.5 ± 0.1233
175
170
165
160
155
150

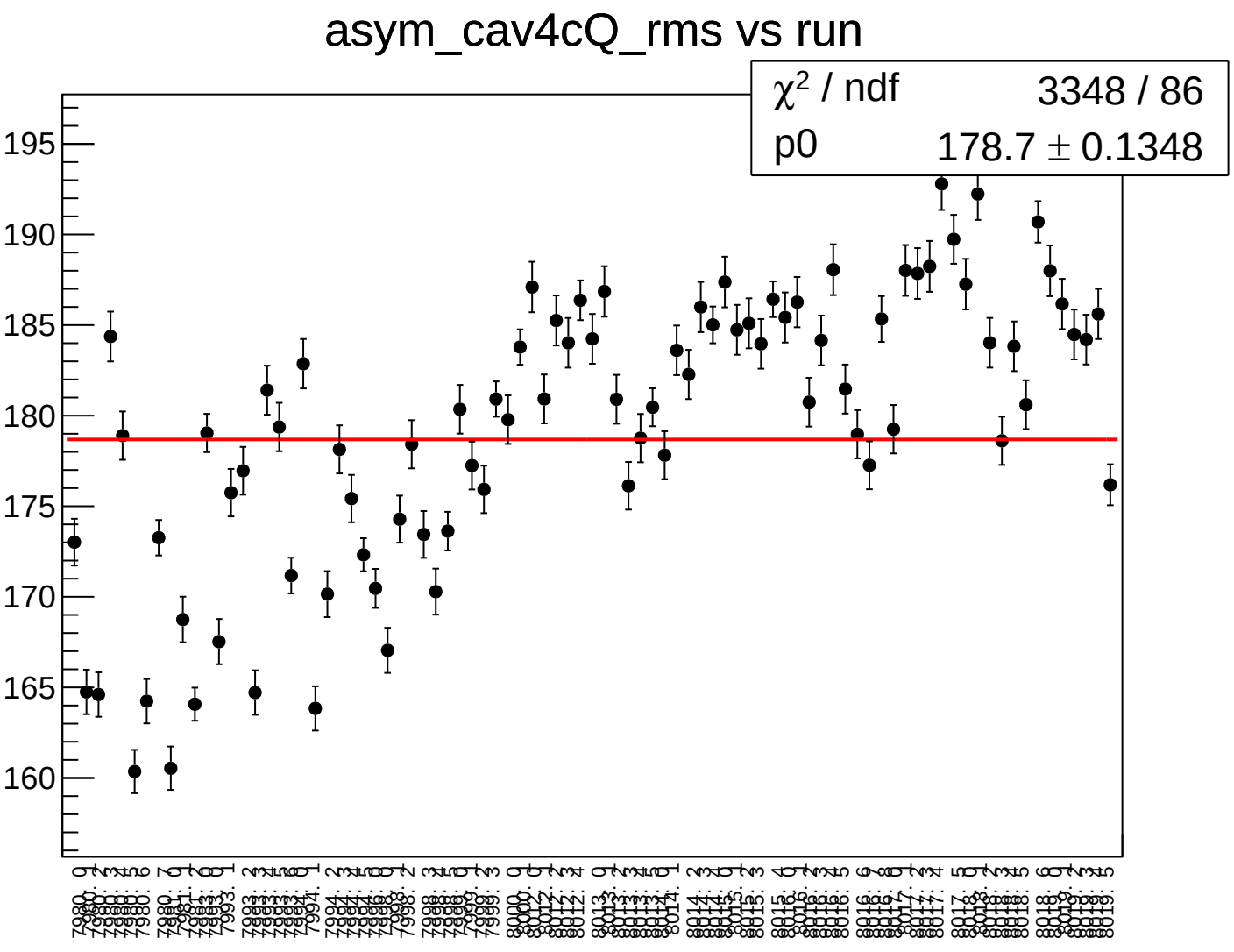

asym_cav4bQ_mean vs run
χ² / ndf 116.2 / 86
p0 147.3 ± 899.6
pull
Entries 87
Mean 105.7
Std Dev 0

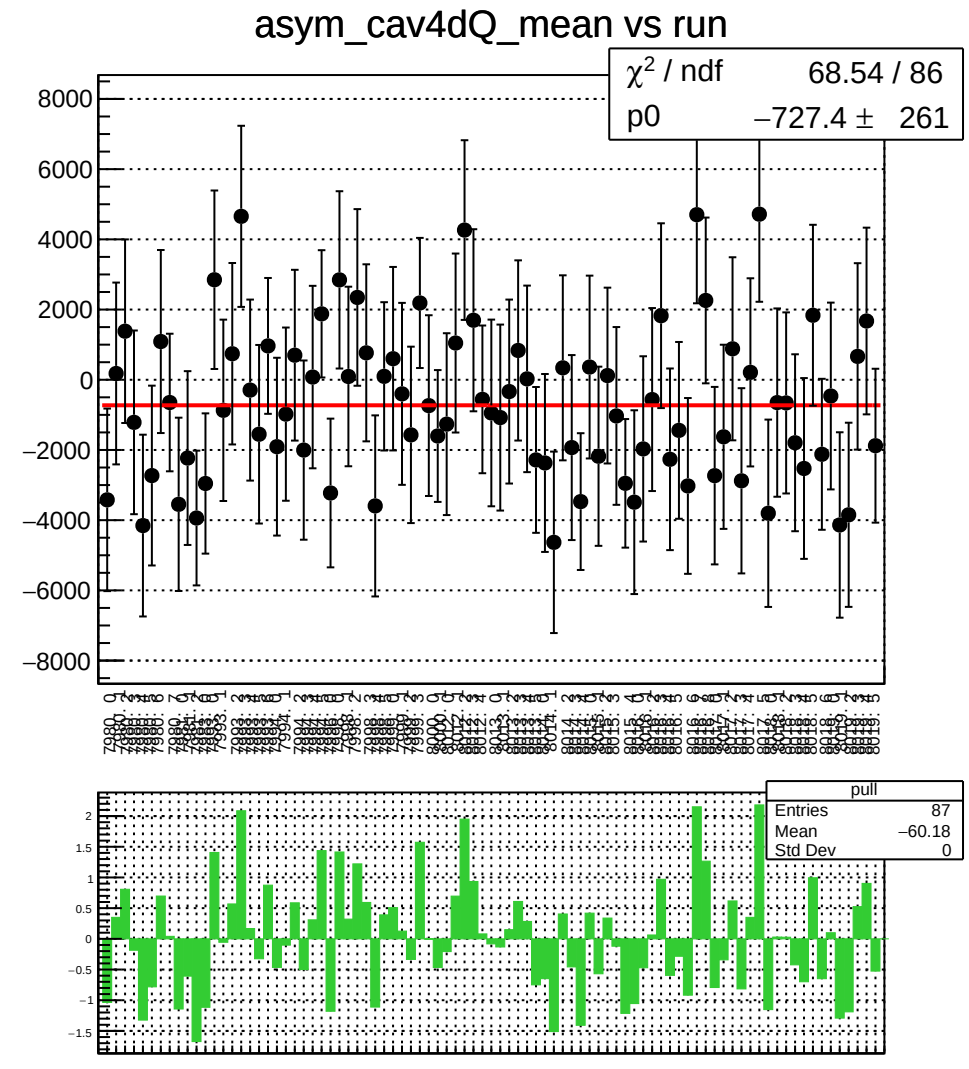

pull1D
Entries 87
Mean 0.02016
Std Dev 1.155

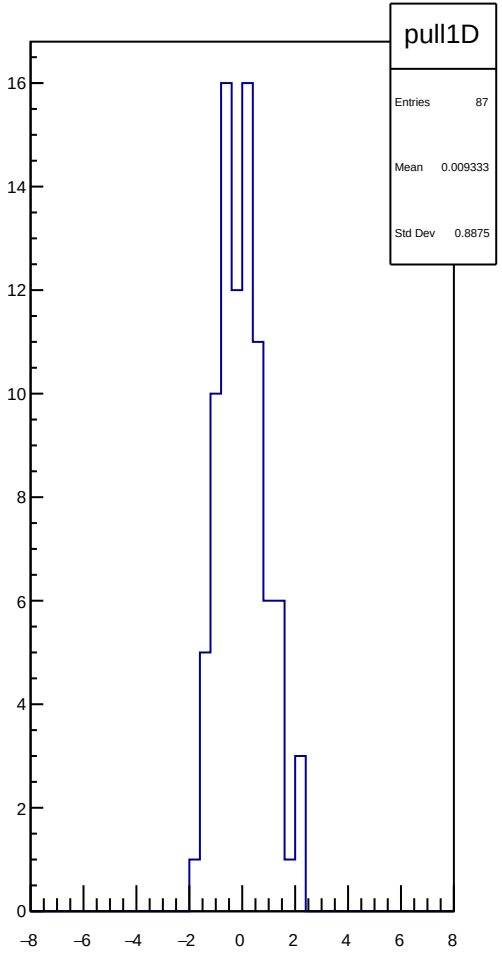

asym_cav4bQ_rms vs run
χ² / ndf 1.231e+04 / 86
p0 841.2 ± 0.6361
1100
1000
900
800
700

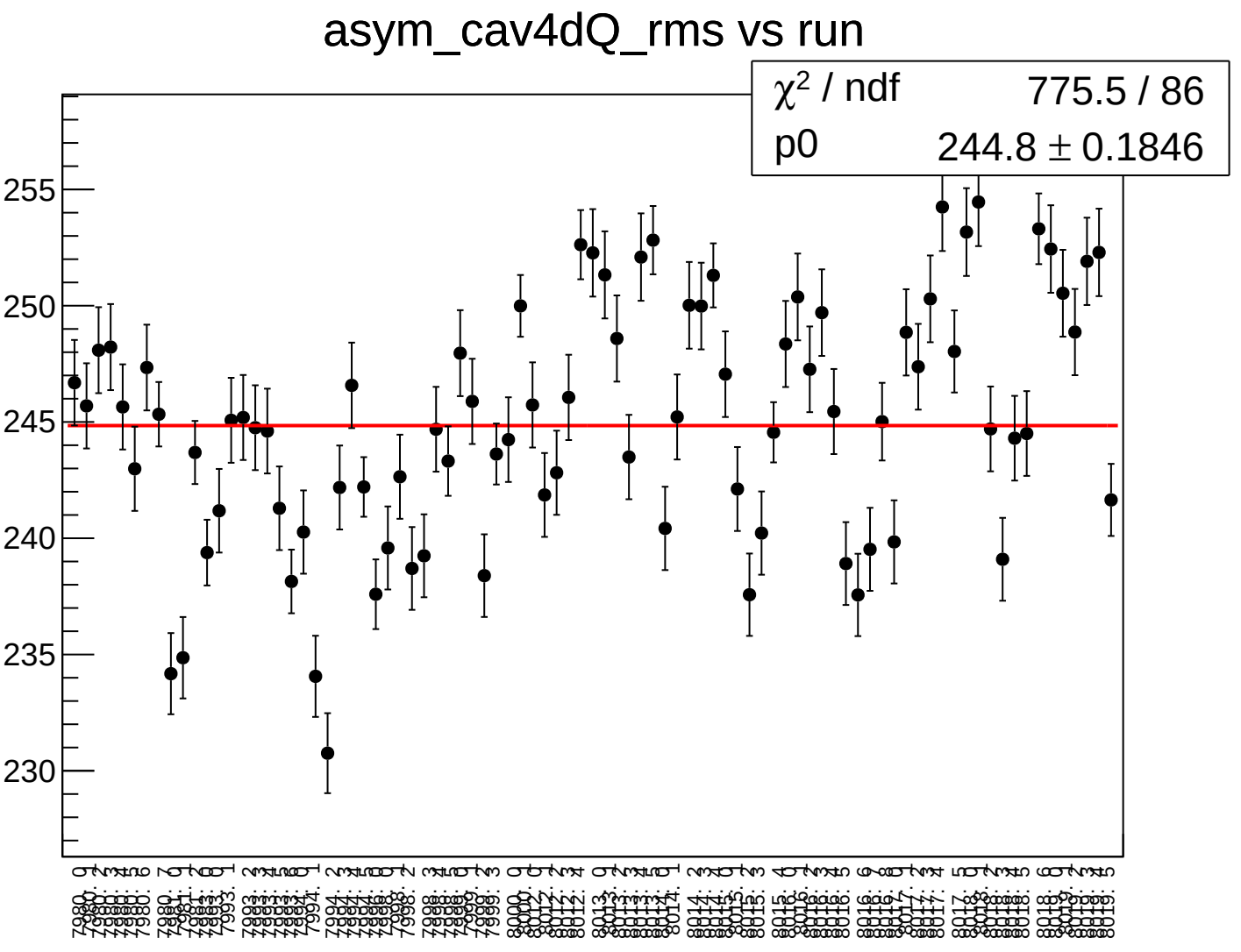

asym_cav4cQ_mean vs run
χ² / ndf 37.86 / 86
p0 −416.8 ± 190.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 89.13
Std Dev 35.87
1.5
1
0.5
0
−0.5
−1
−1.5

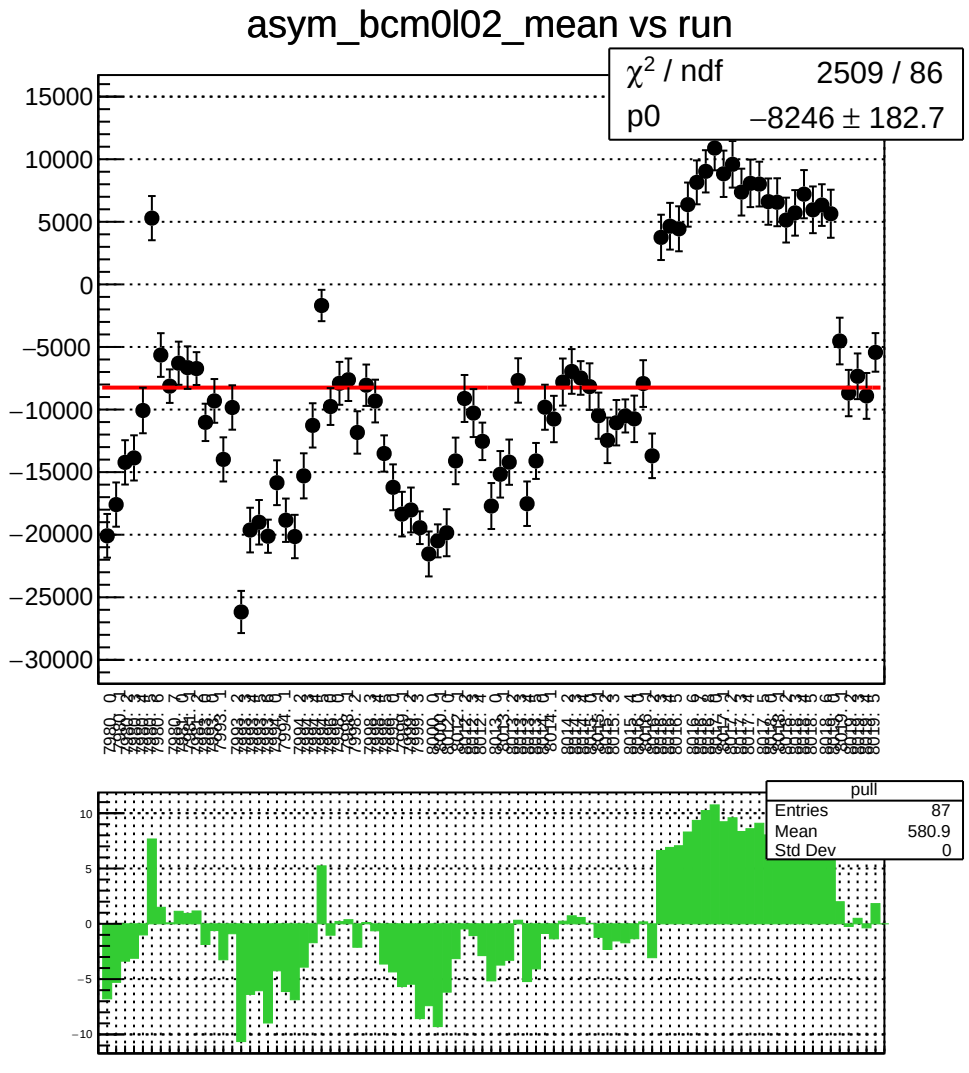

pull1D
Entries 87
Mean 0.01096
Std Dev 0.6595
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

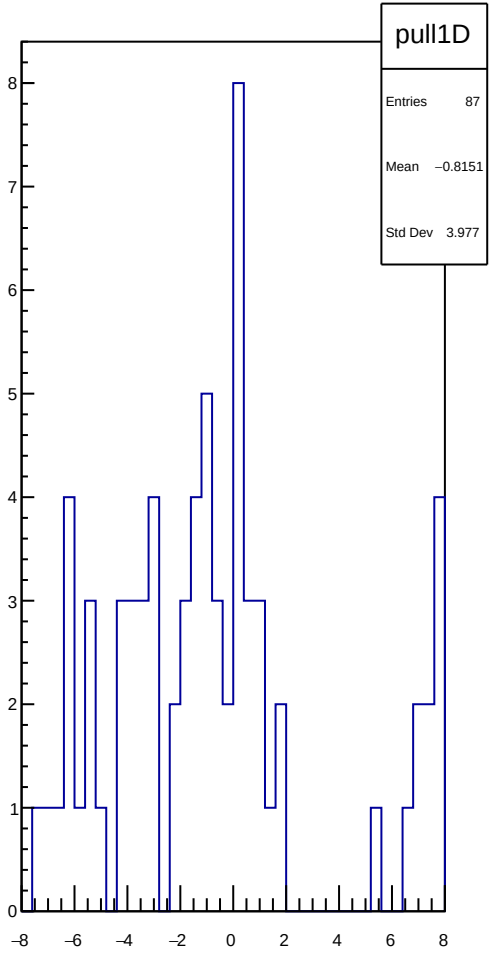

asym_cav4cQ_rms vs run
χ² / ndf 3348 / 86
p0 178.7 ± 0.1348
195
190
185
180
175
170
165
160

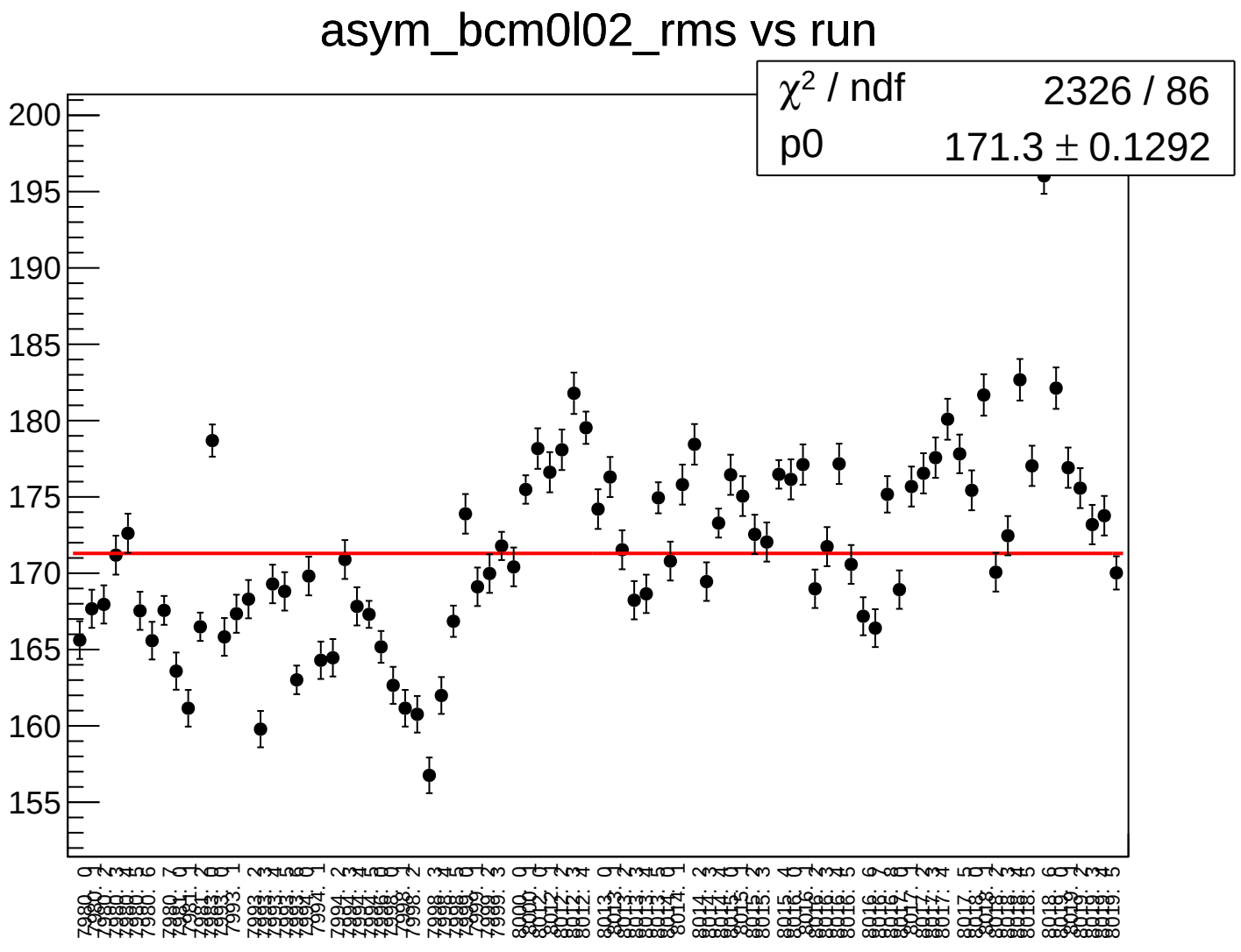

asym_cav4dQ_mean vs run
χ² / ndf 68.54 / 86
p0 −727.4 ± 261
pull
Entries 87
Mean −60.18
Std Dev 0

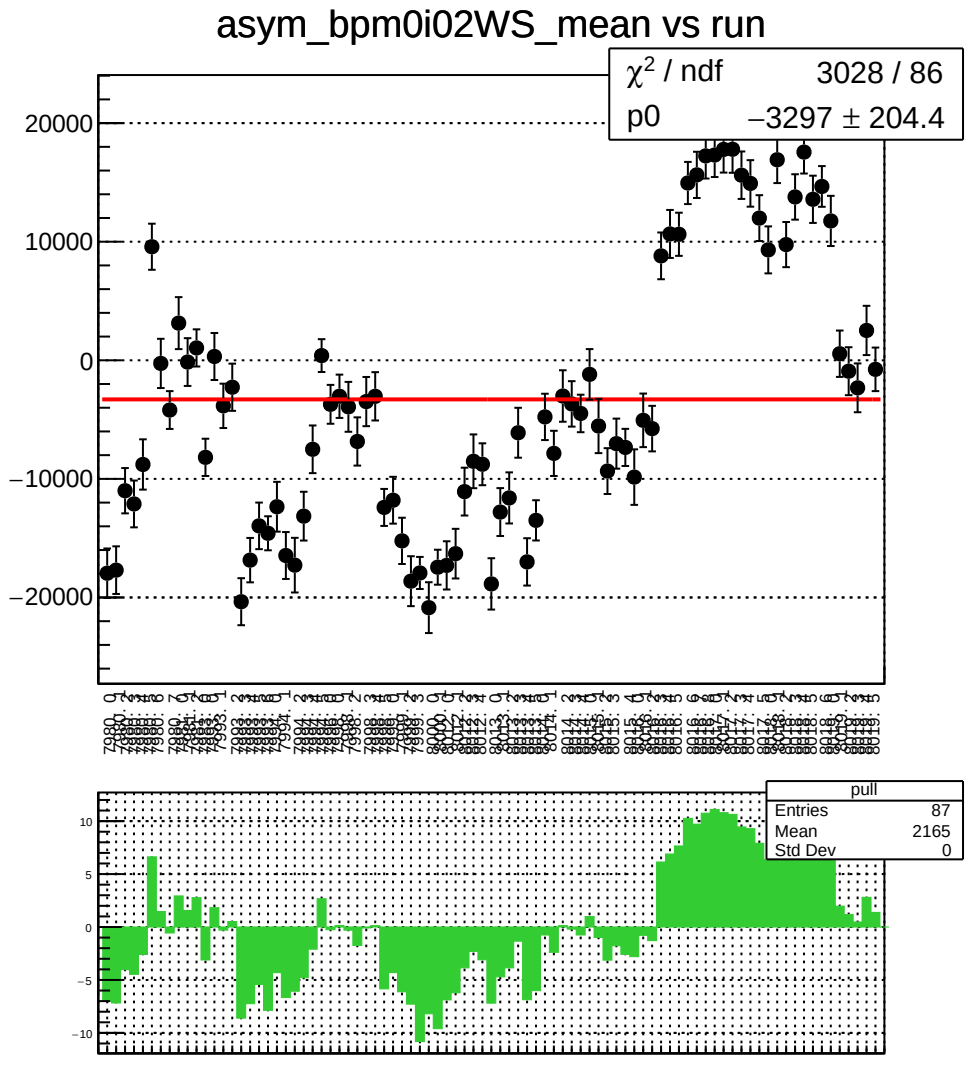

pull1D
Entries 87
Mean 0.009333
Std Dev 0.8875

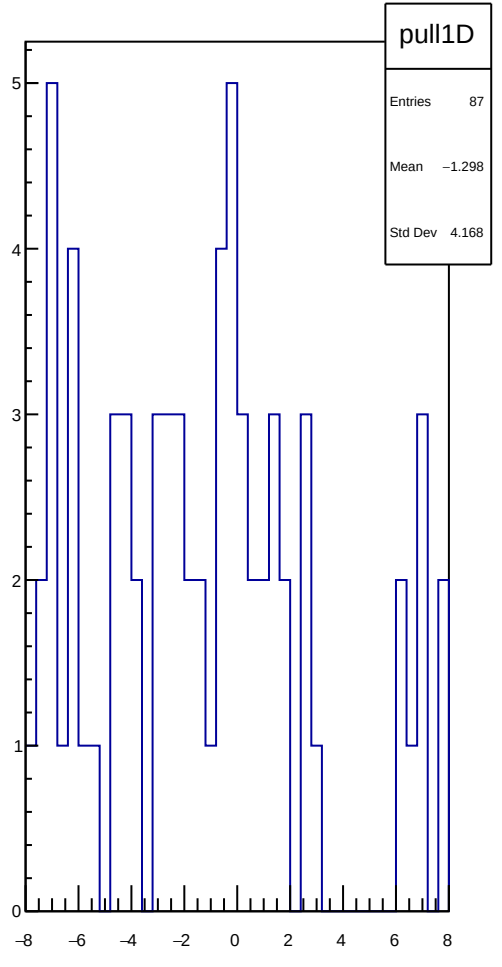

asym_cav4dQ_rms vs run
χ^2 / ndf 775.5 / 86
p0 244.8 ± 0.1846
255
250
245
240
235
230

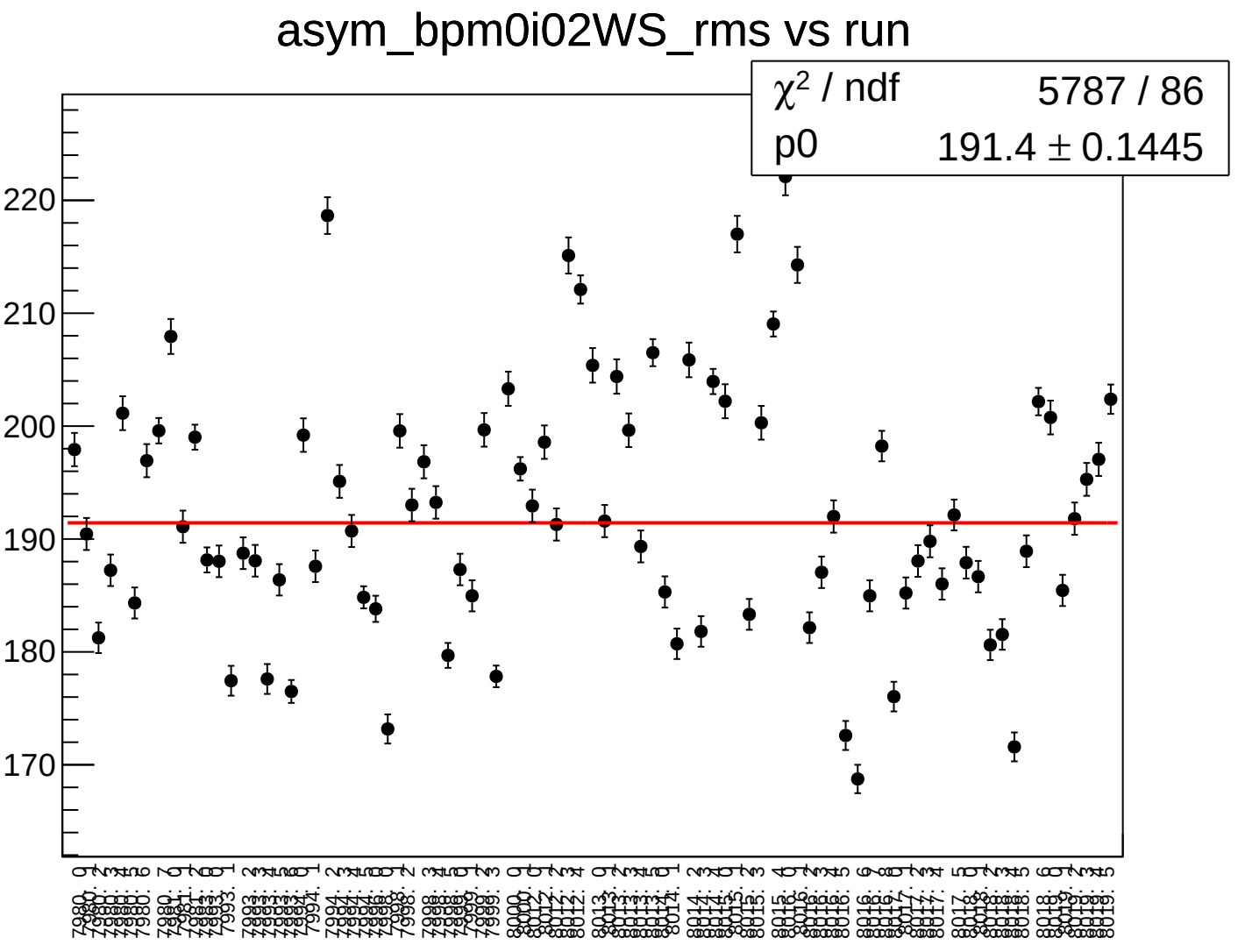

asym_bcm0l02_mean vs run
χ² / ndf 2509 / 86
p0 −8246 ± 182.7
pull
Entries 87
Mean 580.9
Std Dev 0

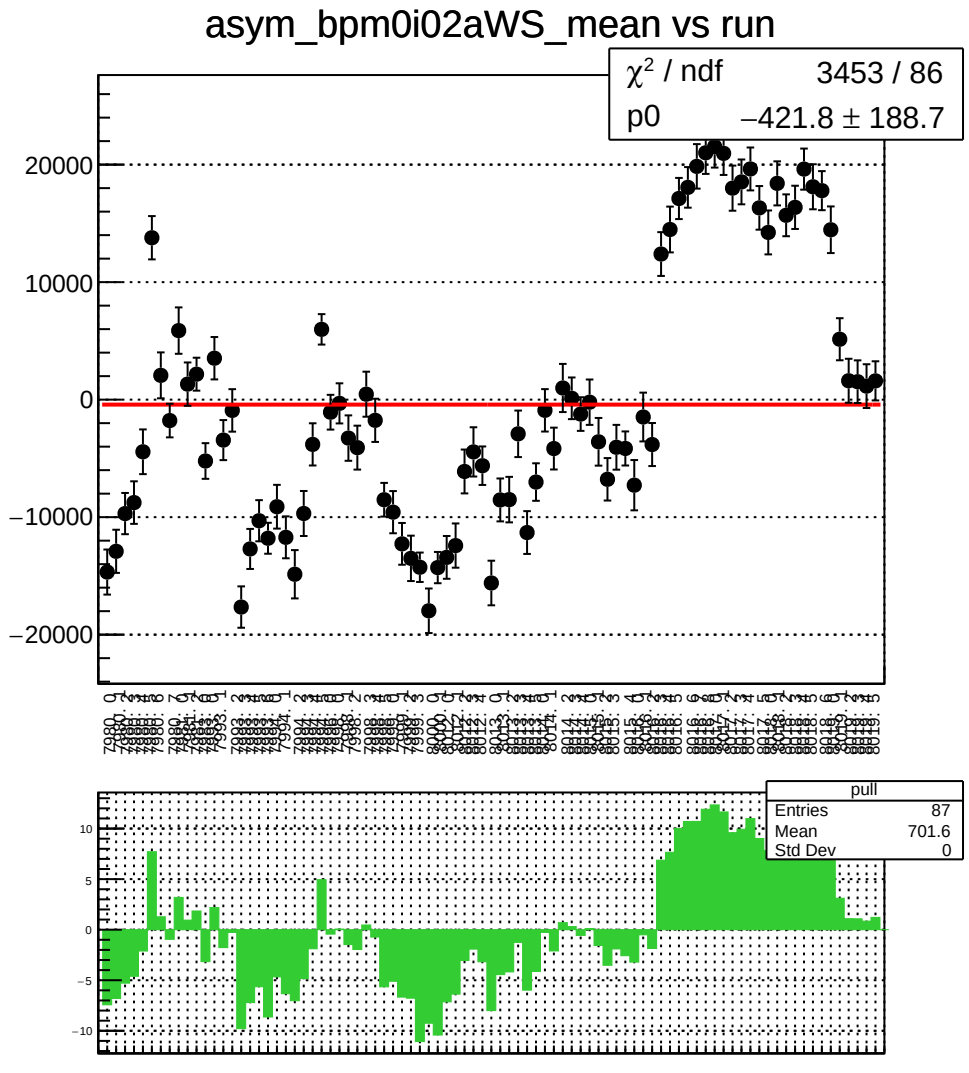

pull1D
Entries 87
Mean −0.8151
Std Dev 3.977

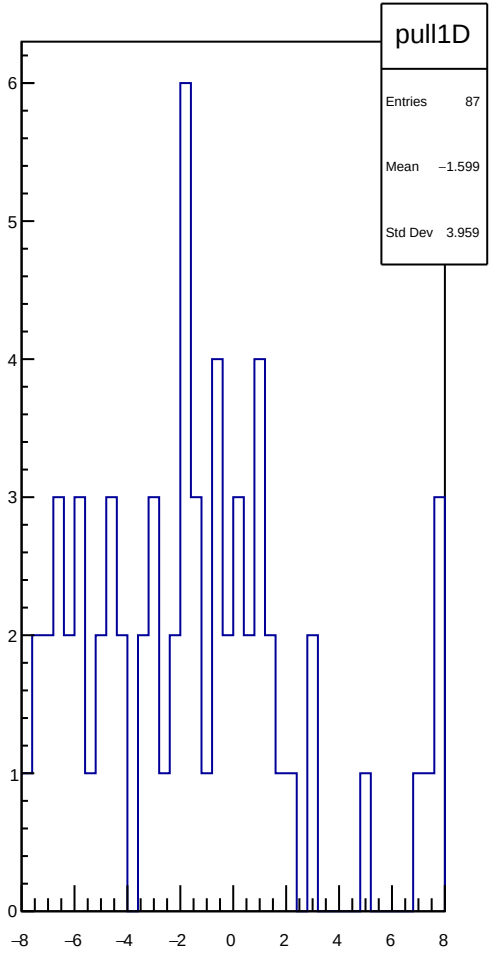

asym_bcm0l02_rms vs run
χ² / ndf 2326 / 86
p0 171.3 ± 0.1292
200
195
190
185
180
175
170
165
160
155

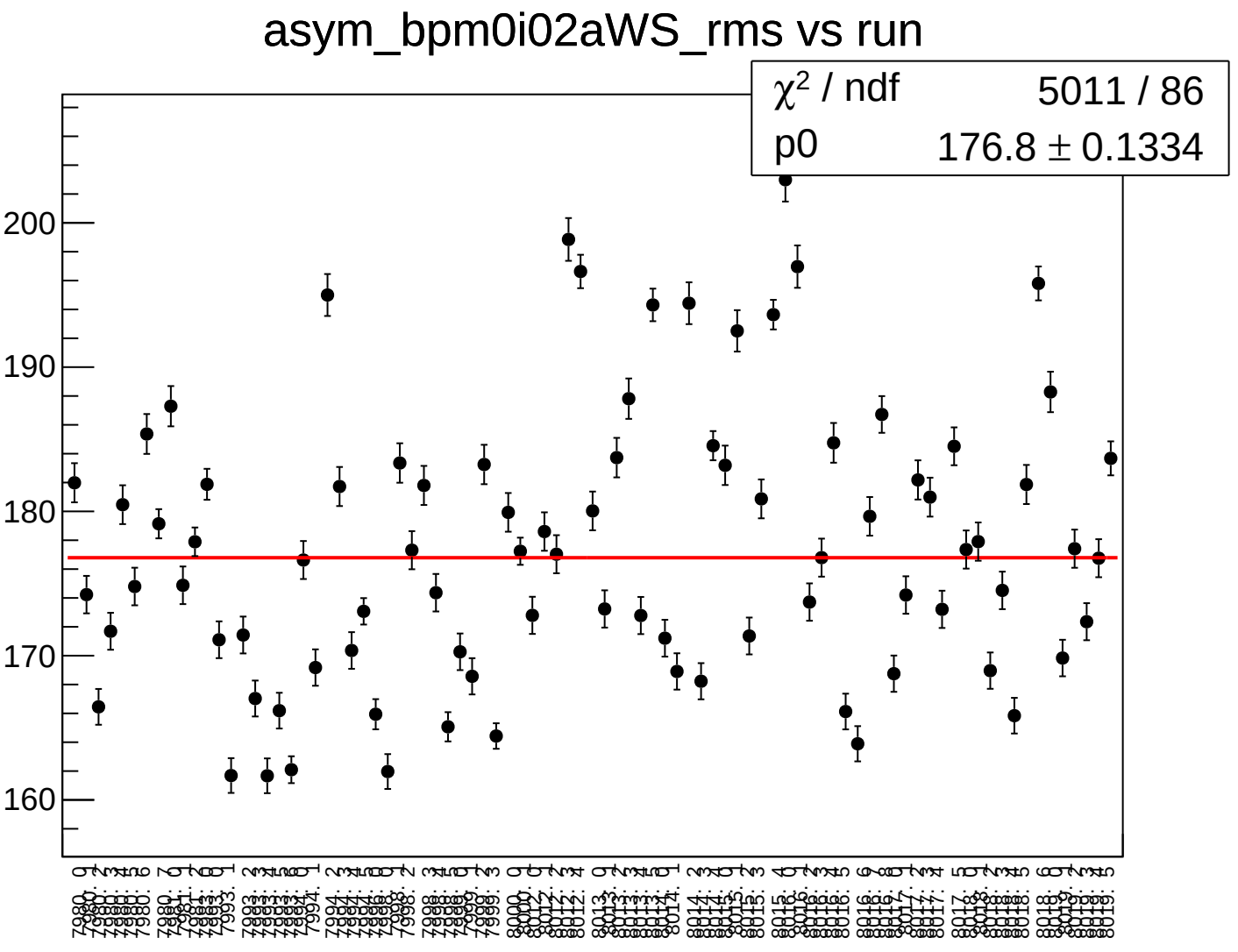

asym_bpm0i02WS_mean vs run
χ² / ndf 3028 / 86
p0 −3297 ± 204.4
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 2165
Std Dev 0
10
5
0
−5
−10

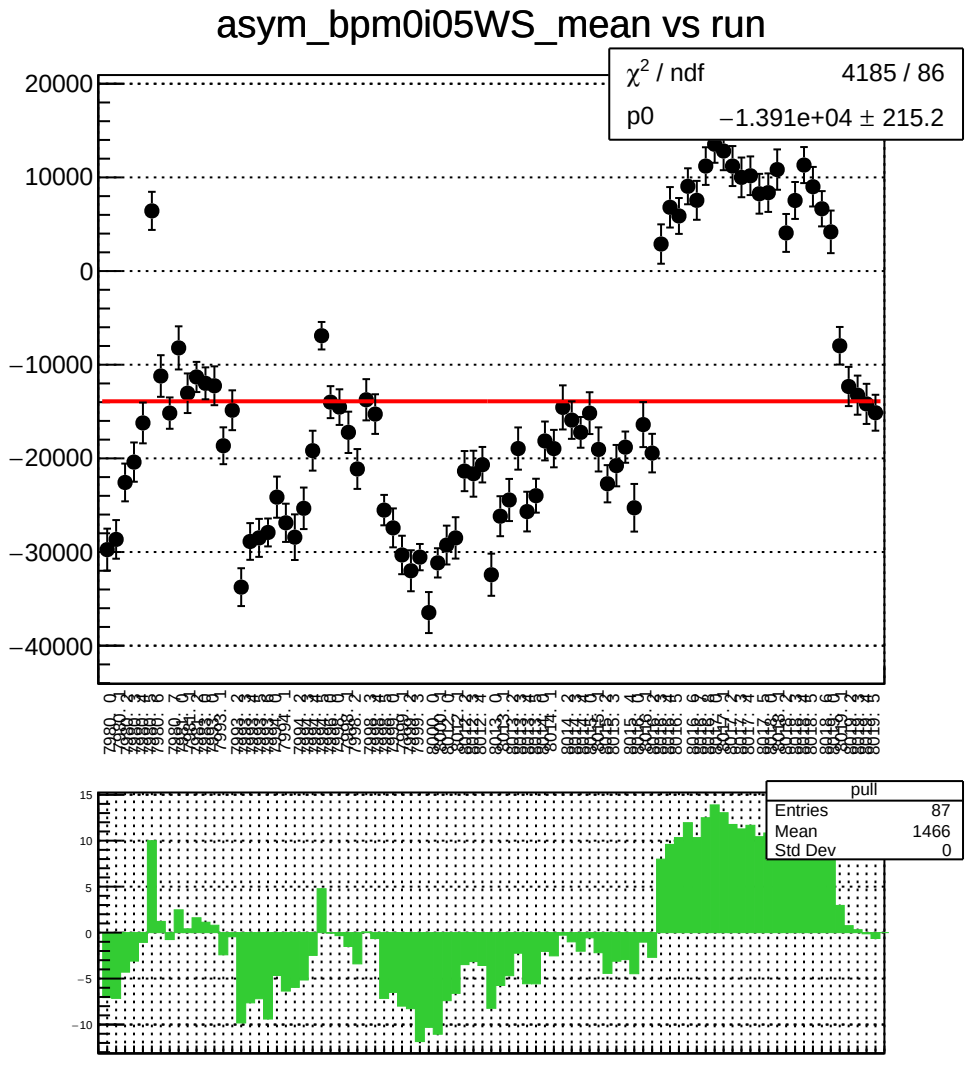

pull1D
Entries 87
Mean −1.298
Std Dev 4.168
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

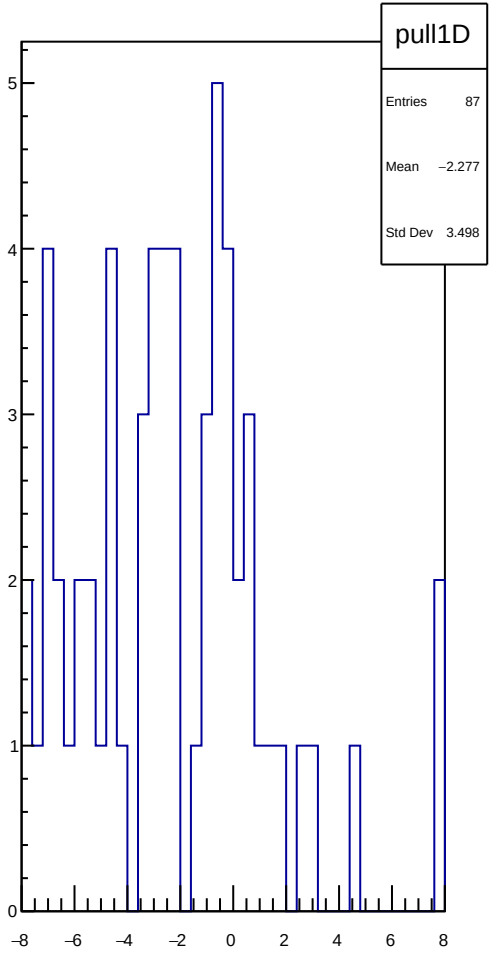

asym_bpm0i02WS_rms vs run
χ² / ndf 5787 / 86
p0 191.4 ± 0.1445
220
210
200
190
180
170

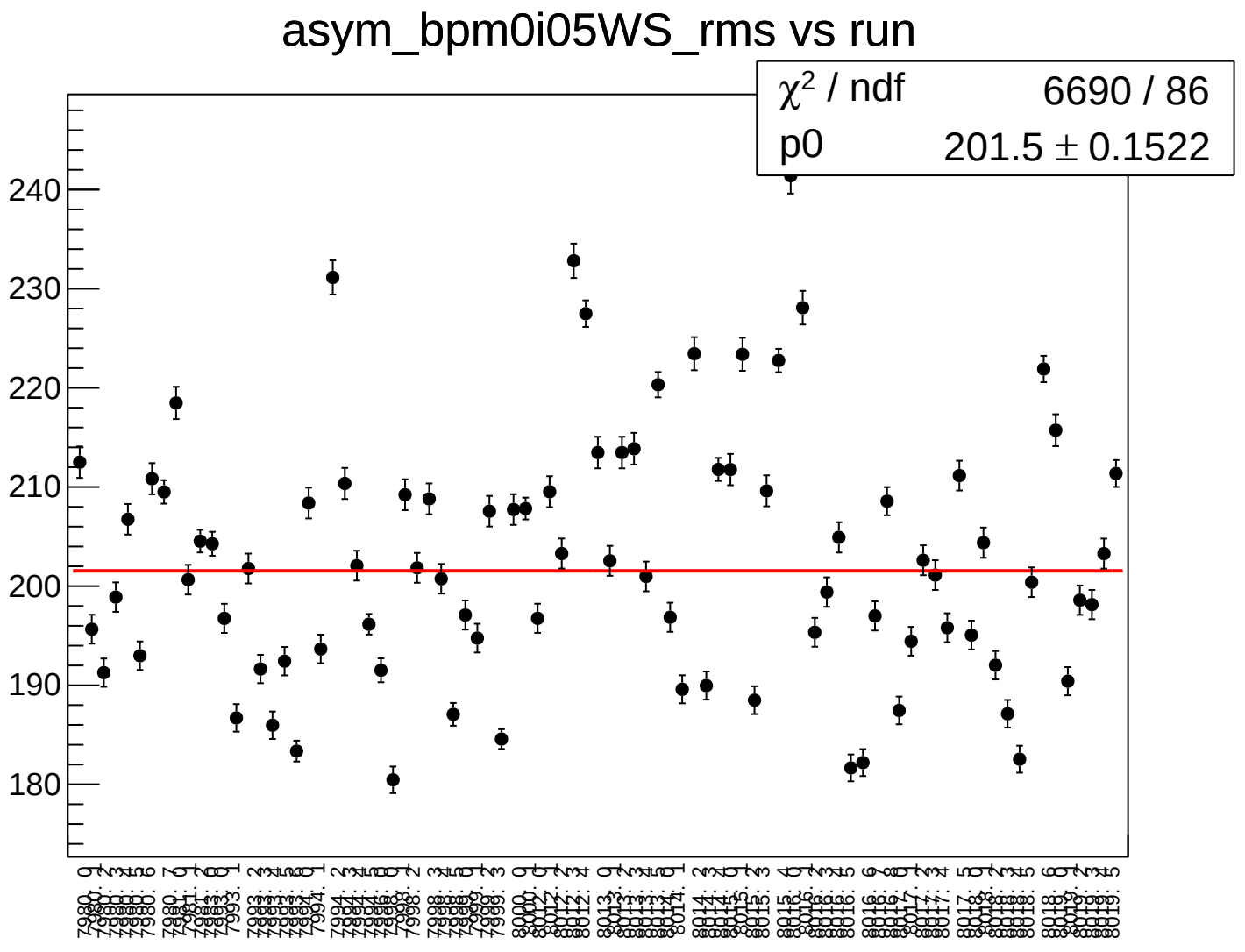

asym_bpm0i02aWS_mean vs run
χ² / ndf 3453 / 86
p0 −421.8 ± 188.7
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 701.6
Std Dev 0
10
5
0
−5
−10

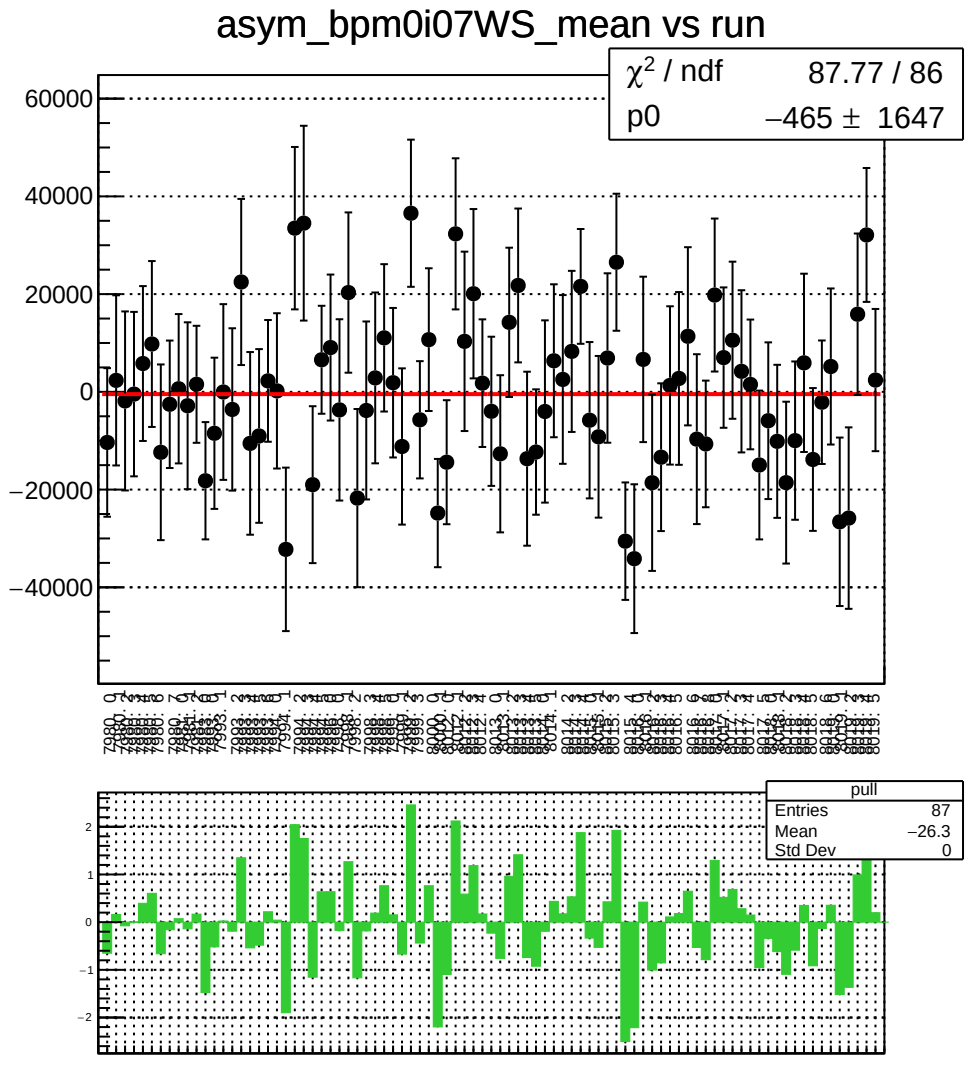

pull1D
Entries 87
Mean −1.599
Std Dev 3.959
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

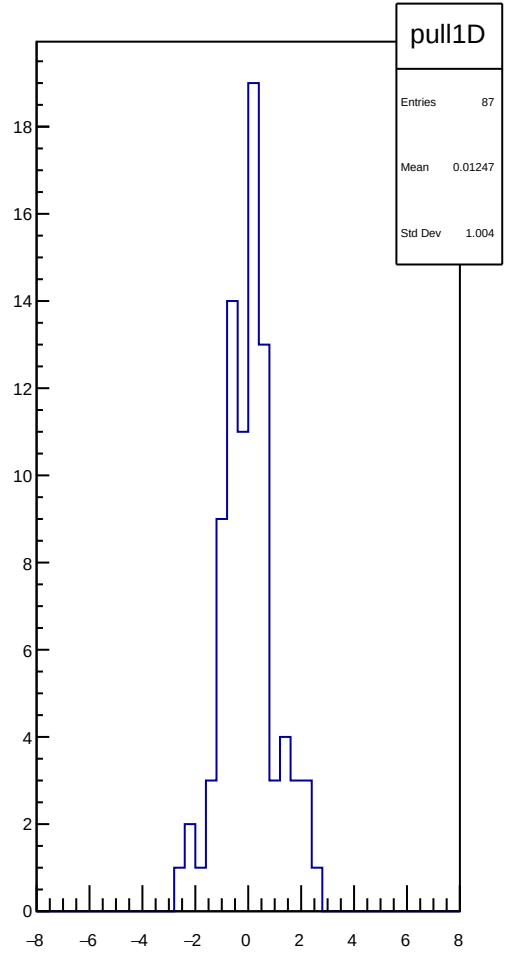

asym_bpm0i02aWS_rms vs run
χ² / ndf 5011 / 86
p0 176.8 ± 0.1334
200
190
180
170
160

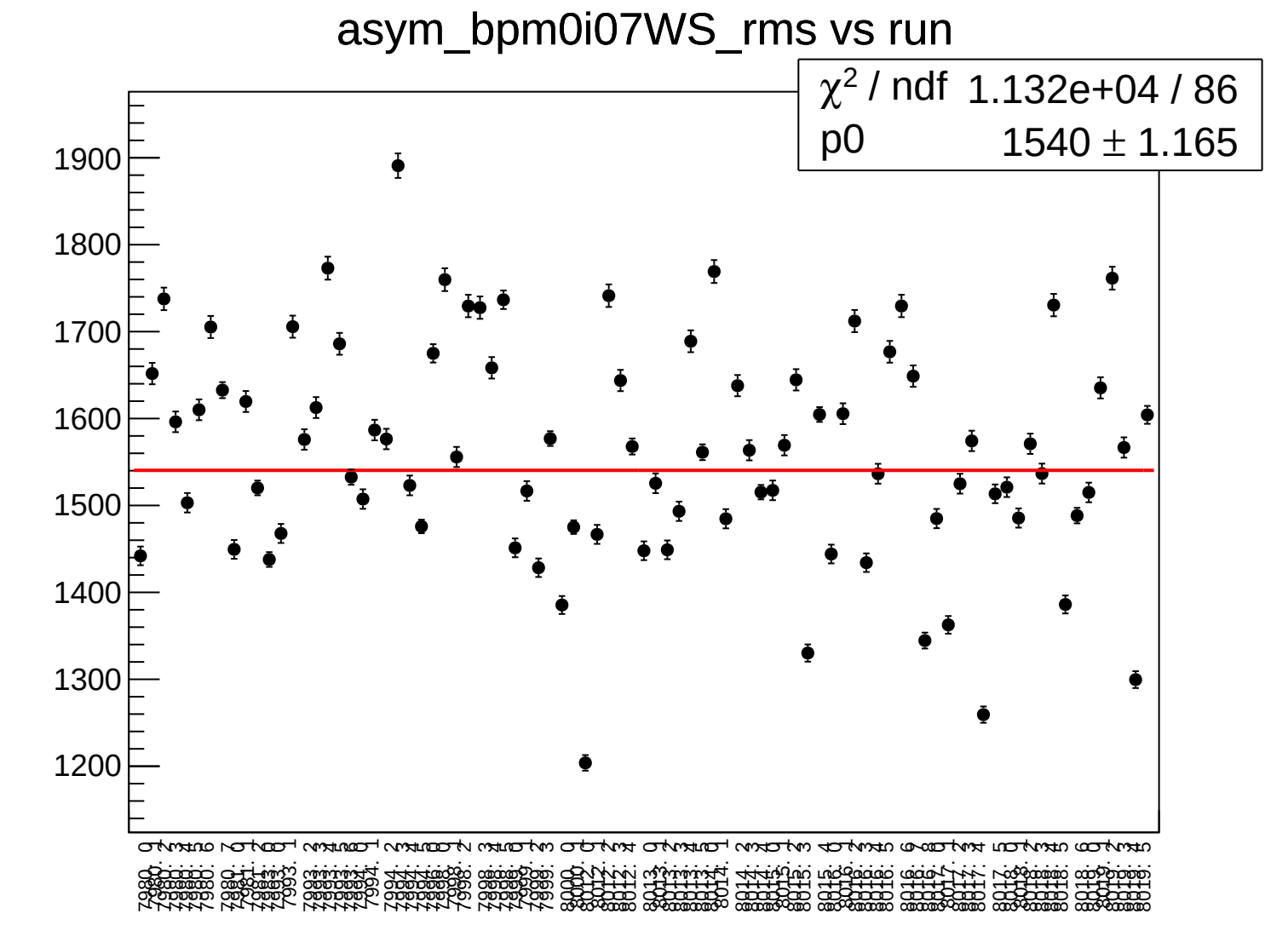

asym_bpm0i05WS_mean vs run
χ² / ndf 4185 / 86
p0 −1.391e+04 ± 215.2
pull
Entries 87
Mean 1466
Std Dev 0

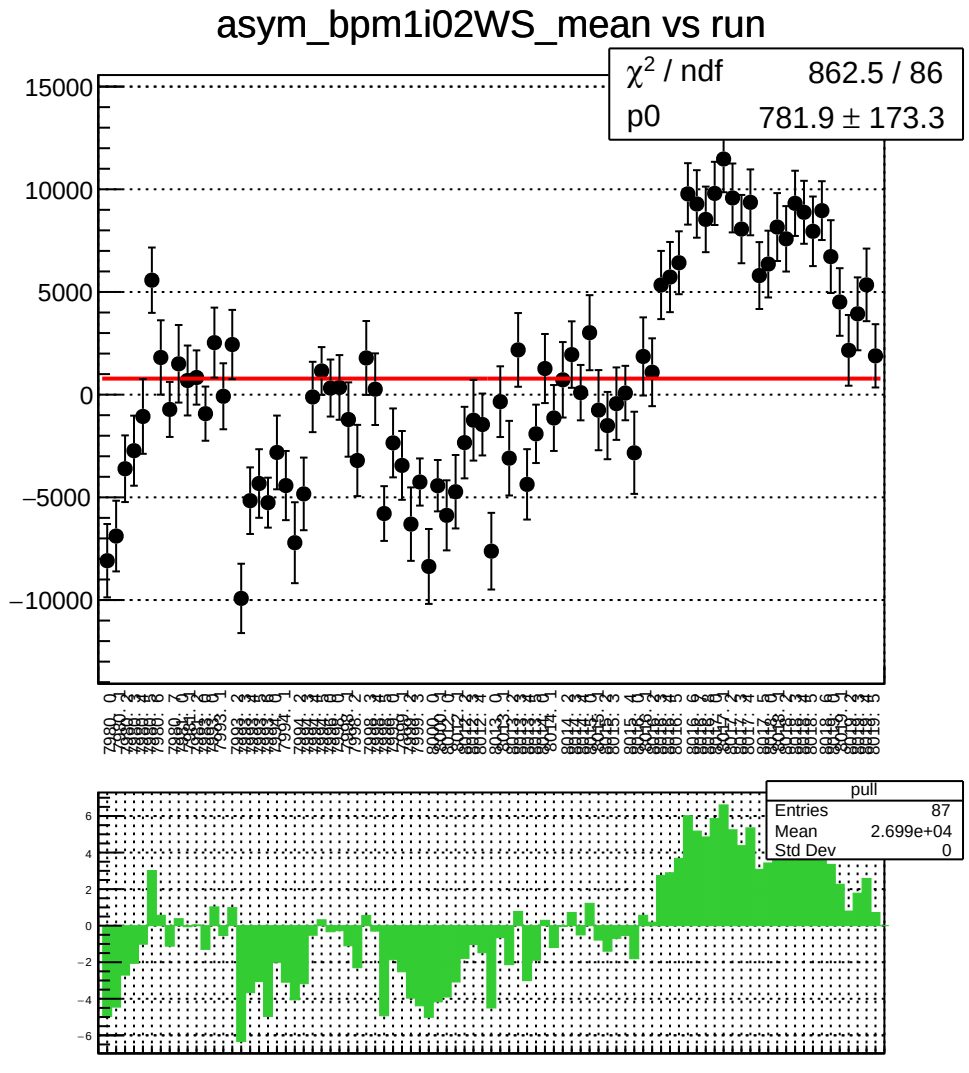

pull1D
Entries 87
Mean −2.277
Std Dev 3.498

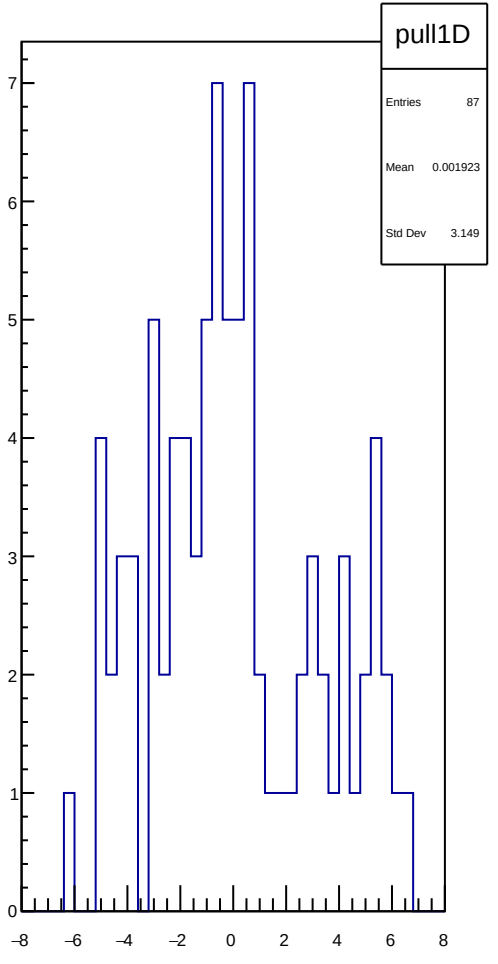

asym_bpm0i05WS_rms vs run
χ² / ndf 6690 / 86
p0 201.5 ± 0.1522
240
230
220
210
200
190
180

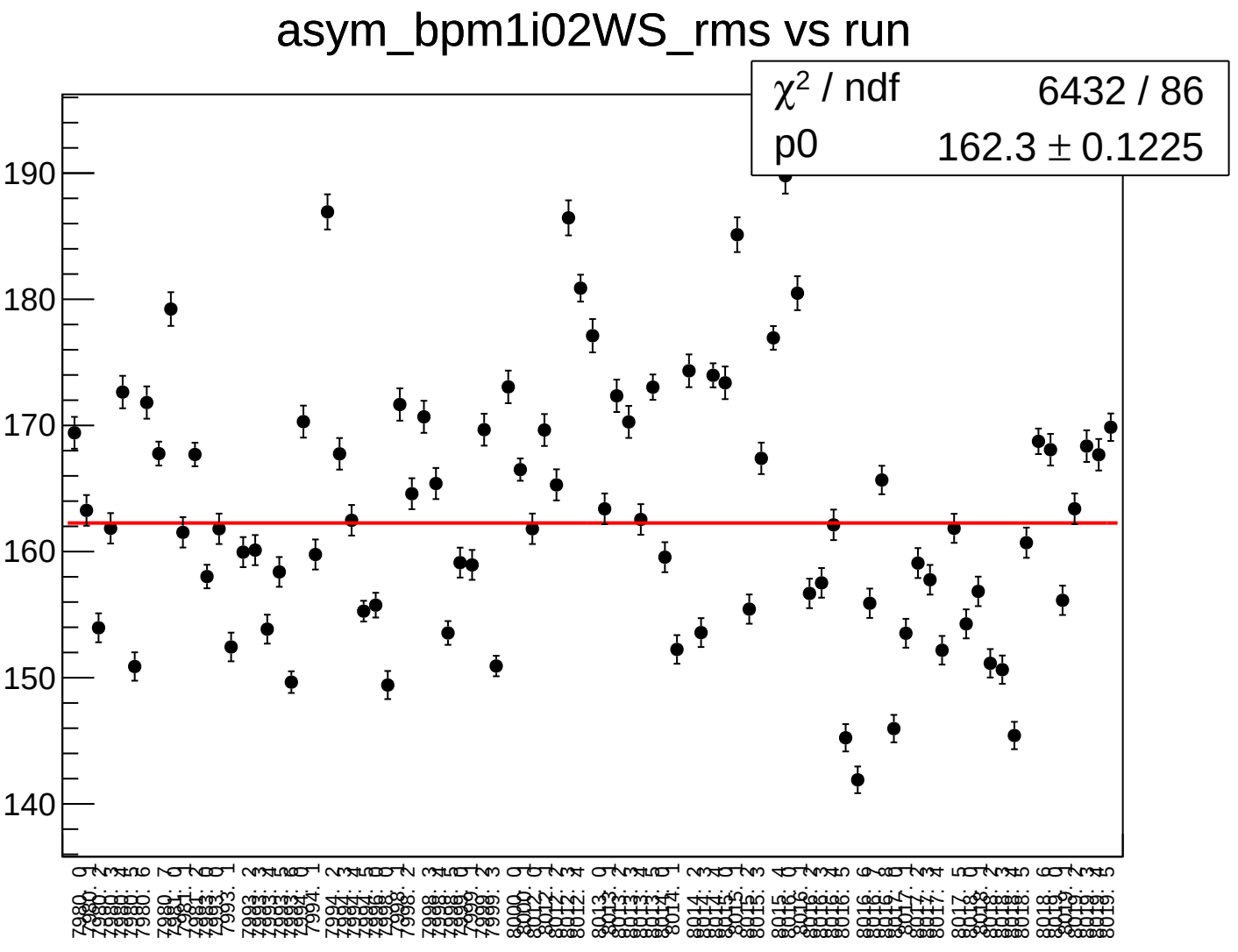

asym_bpm0i07WS_mean vs run
χ² / ndf 87.77 / 86
p0 −465 ± 1647
pull
Entries 87
Mean −26.3
Std Dev 0

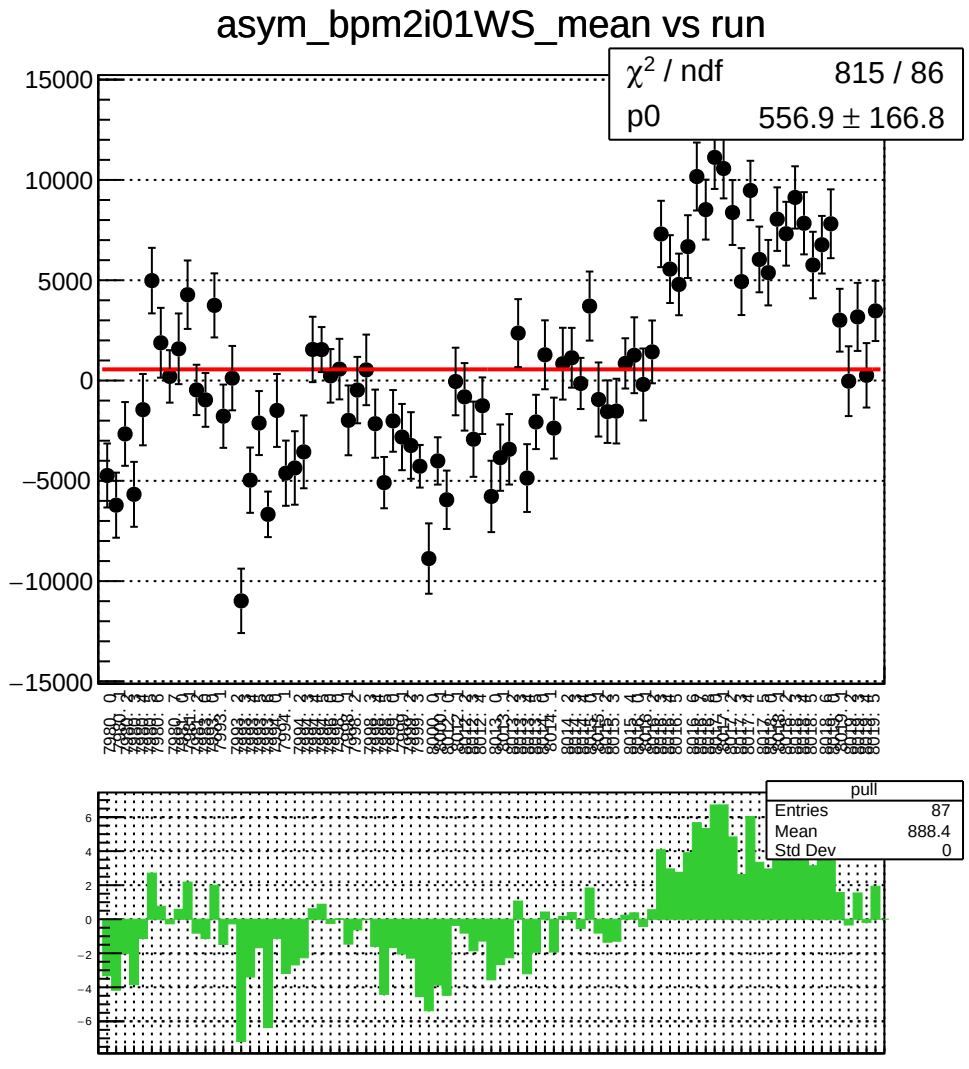

pull1D
Entries 87
Mean 0.01247
Std Dev 1.004

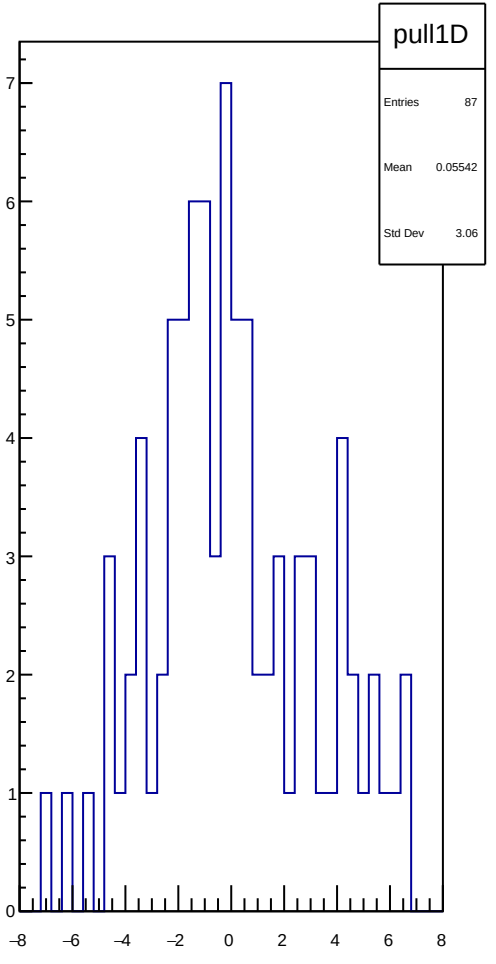

asym_bpm0i07WS_rms vs run
χ² / ndf 1.132e+04 / 86
p0 1540 ± 1.165
1900
1800
1700
1600
1500
1400
1300
1200

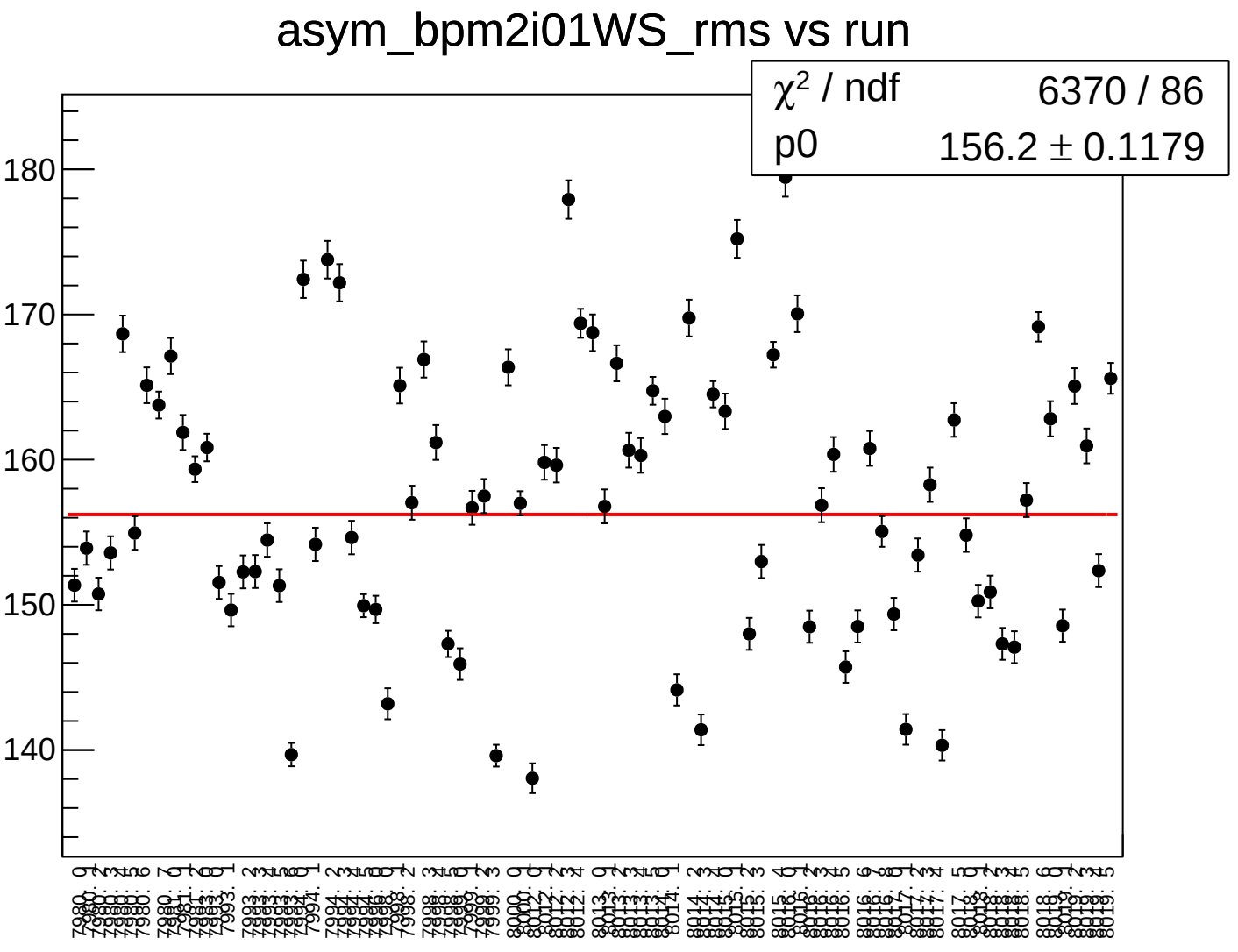

asym_bpm1i02WS_mean vs run
χ² / ndf 862.5 / 86
p0 781.9 ± 173.3
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 2.699e+04
Std Dev 0
6
4
2
0
−2
−4
−6

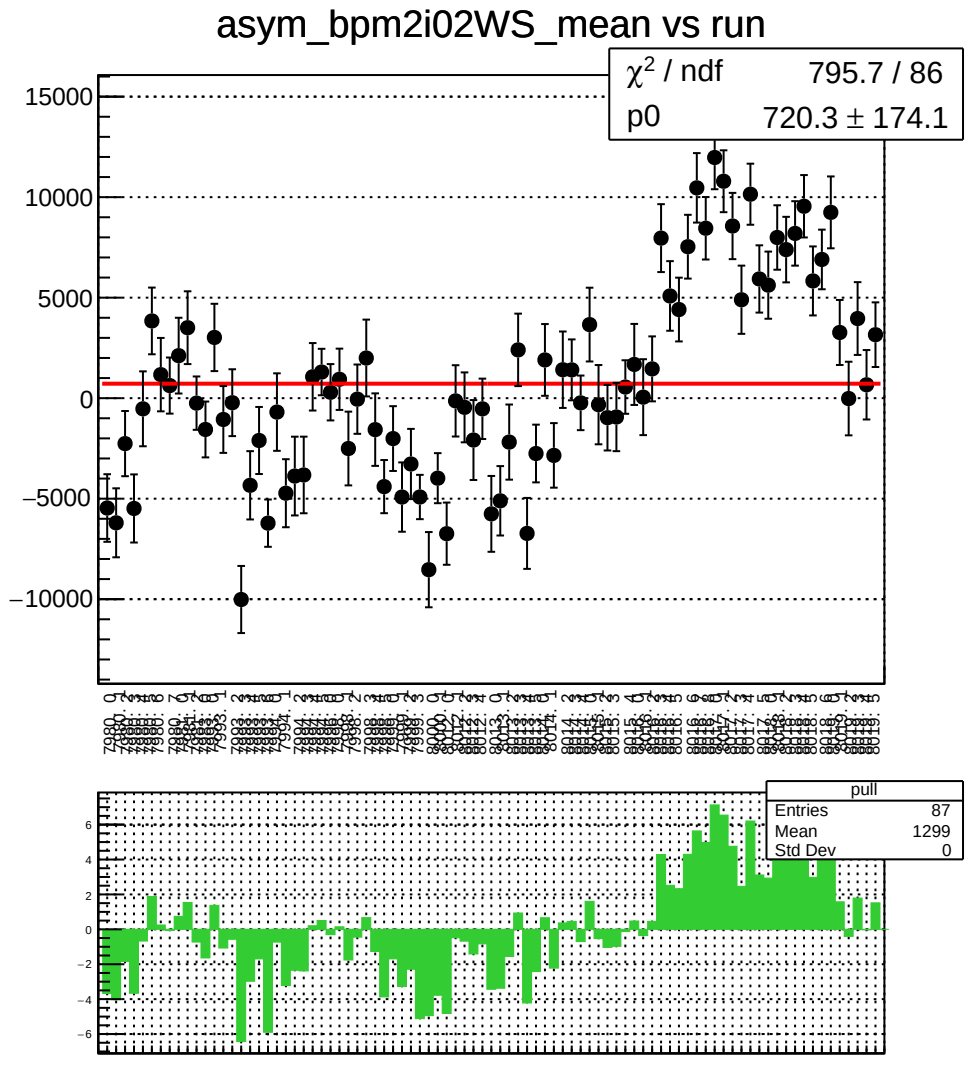

pull1D
Entries 87
Mean 0.001923
Std Dev 3.149
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

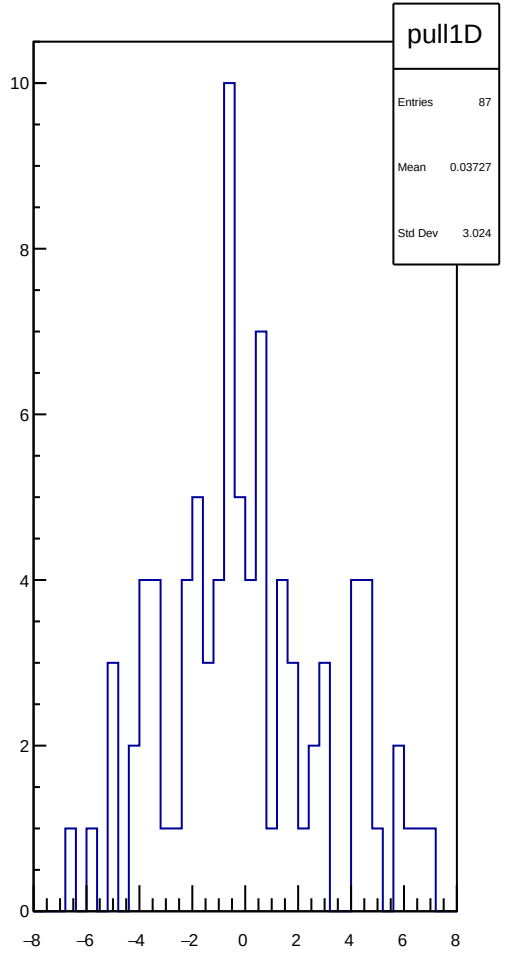

asym_bpm1i02WS_rms vs run
χ² / ndf 6432 / 86
p0 162.3 ± 0.1225
190
180
170
160
150
140

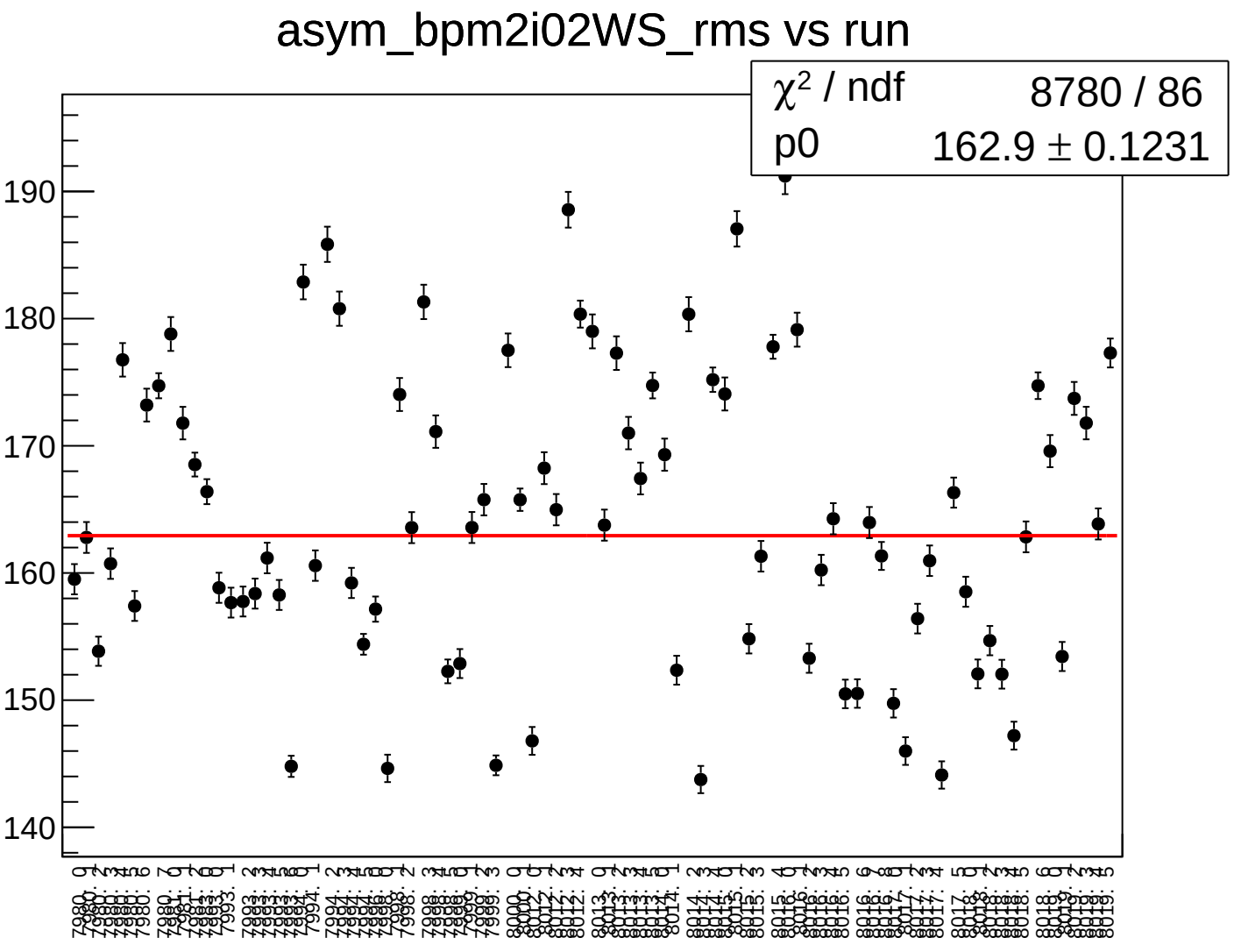

asym_bpm2i01WS_mean vs run
χ² / ndf 815 / 86
p0 556.9 ± 166.8
pull
Entries 87
Mean 888.4
Std Dev 0

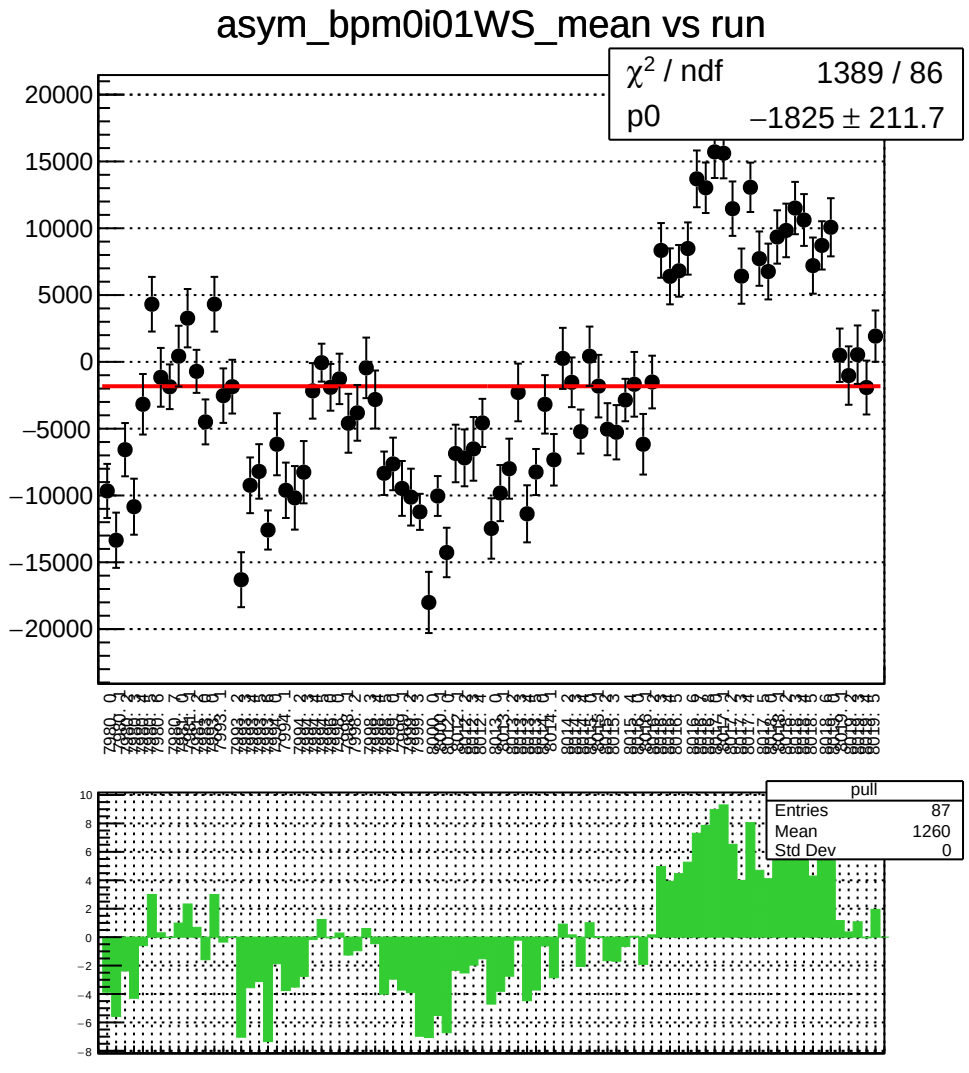

pull1D
Entries 87
Mean 0.05542
Std Dev 3.06

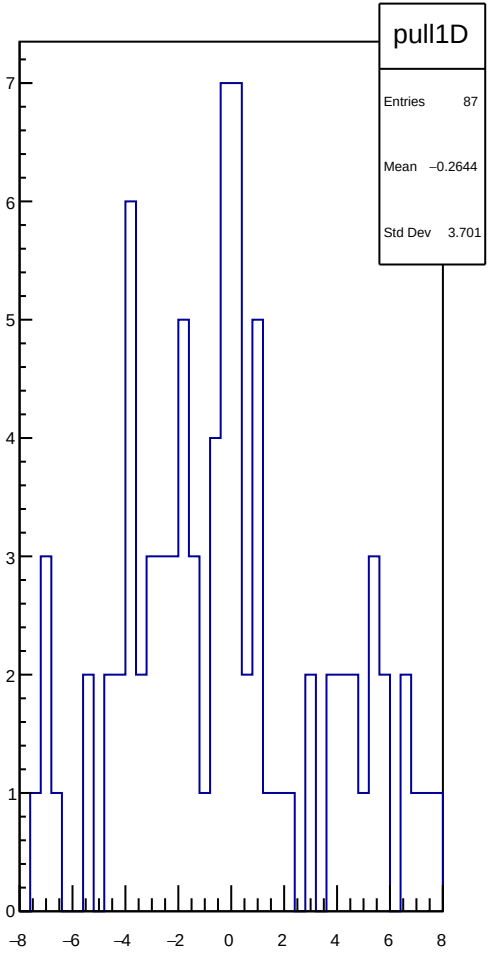

asym_bpm2i01WS_rms vs run
χ² / ndf 6370 / 86
p0 156.2 ± 0.1179
180
170
160
150
140

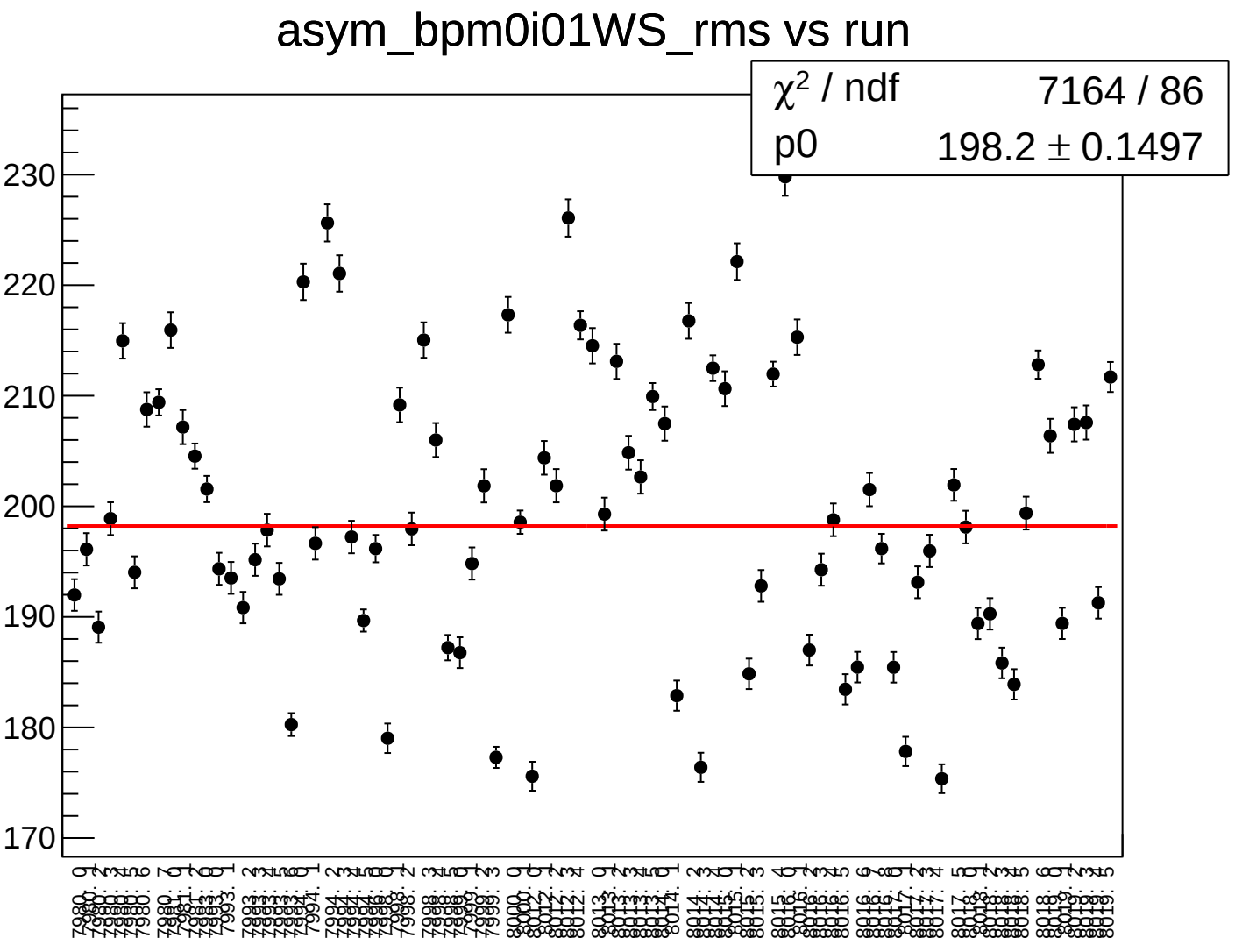

asym_bpm2i02WS_mean vs run
χ² / ndf 795.7 / 86
p0 720.3 ± 174.1
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 1299
Std Dev 0
6
4
2
0
−2
−4
−6

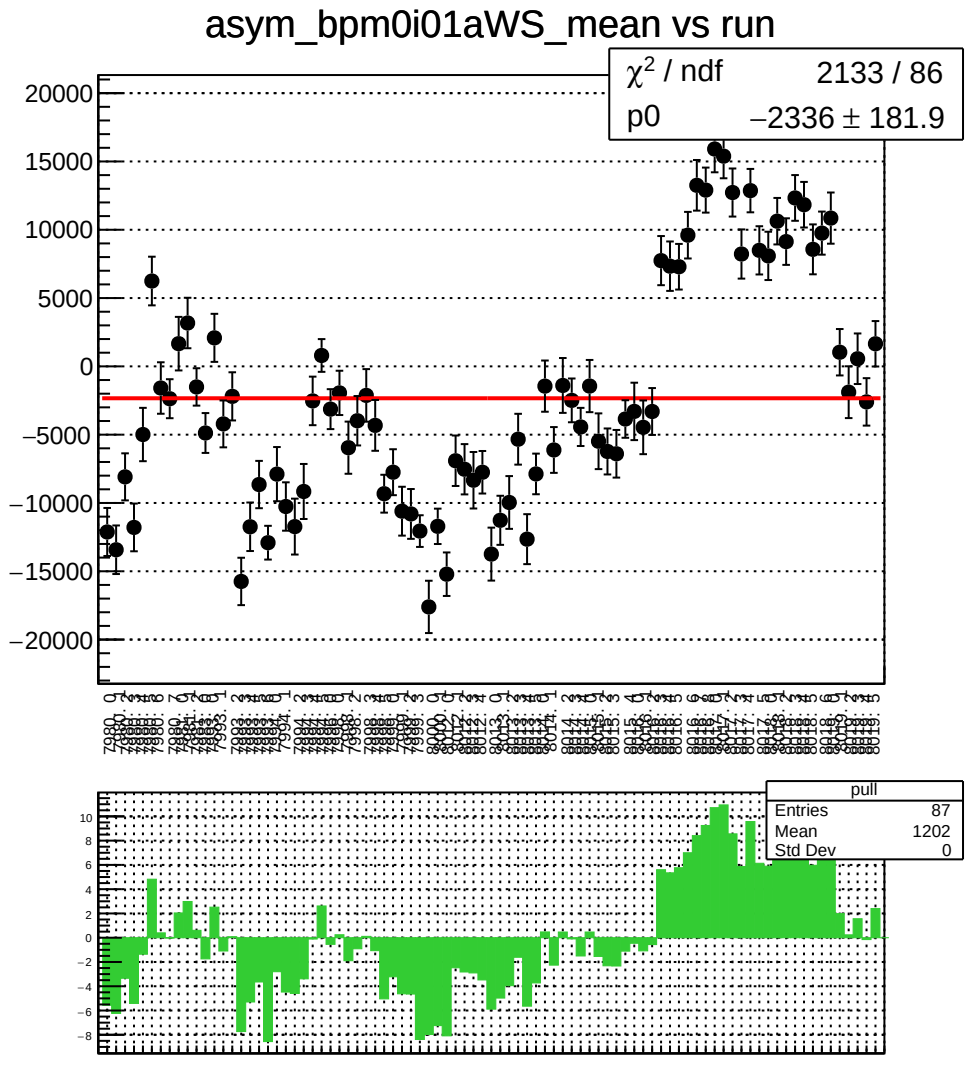

pull1D
Entries 87
Mean 0.03727
Std Dev 3.024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

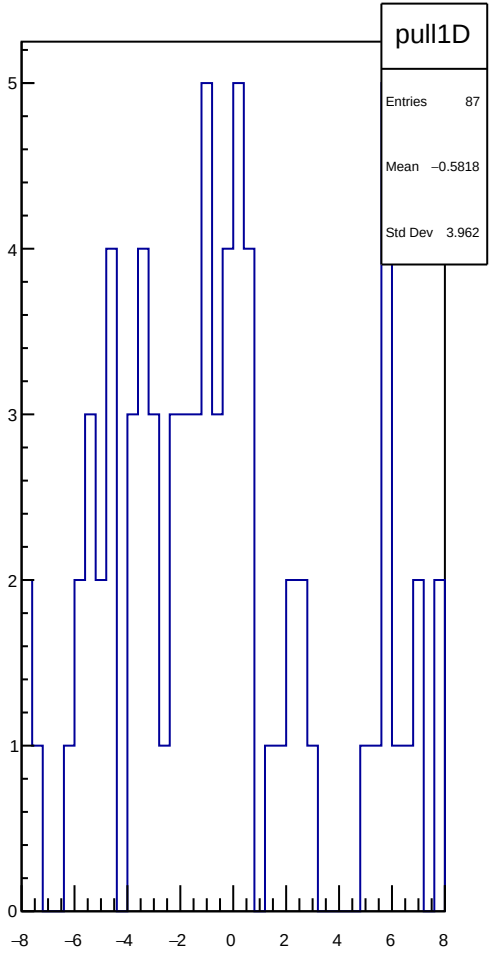

asym_bpm2i02WS_rms vs run
χ² / ndf 8780 / 86
p0 162.9 ± 0.1231
190
180
170
160
150
140

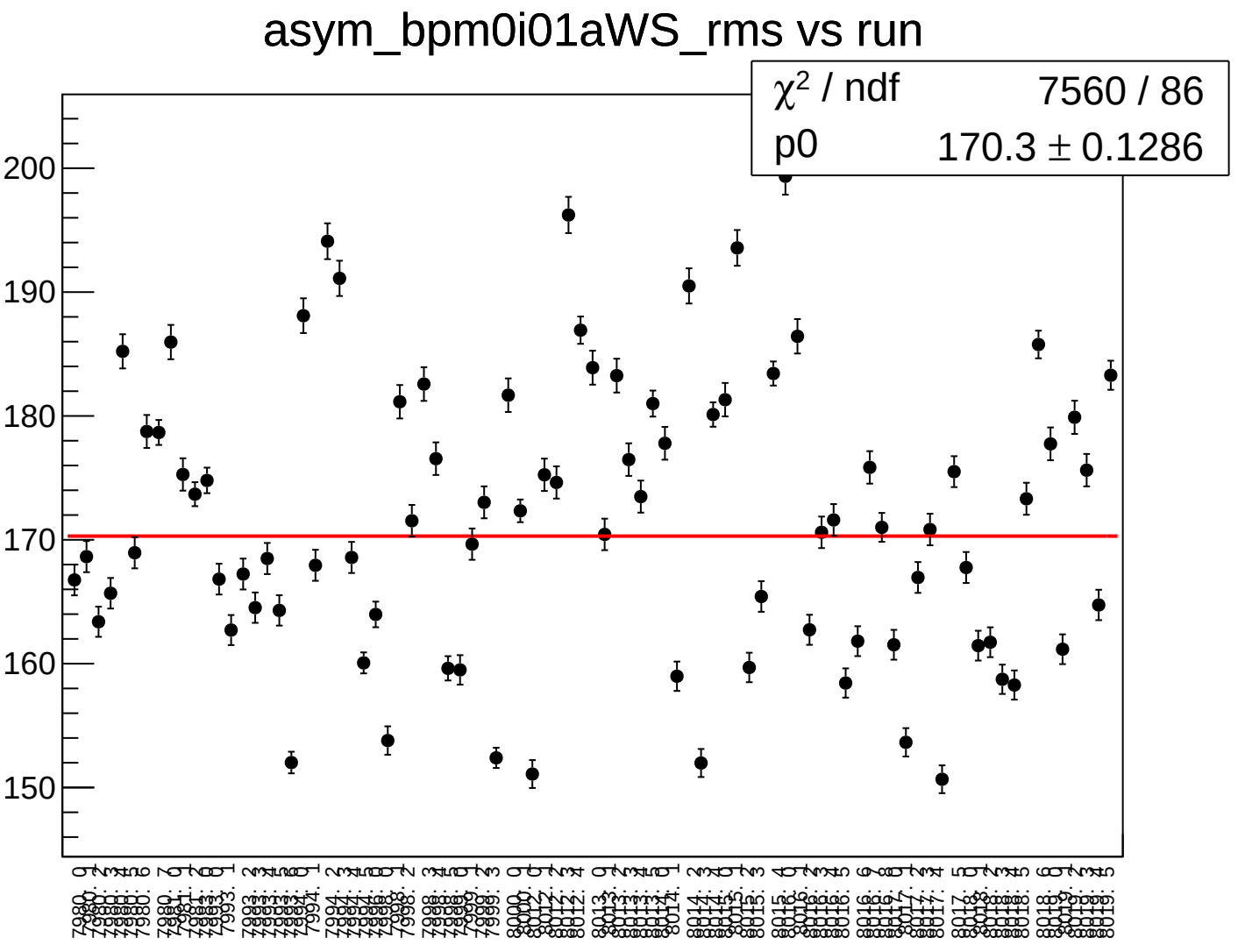

asym_bpm0i01WS_mean vs run
χ² / ndf 1389 / 86
p0 −1825 ± 211.7
pull
Entries 87
Mean 1260
Std Dev 0

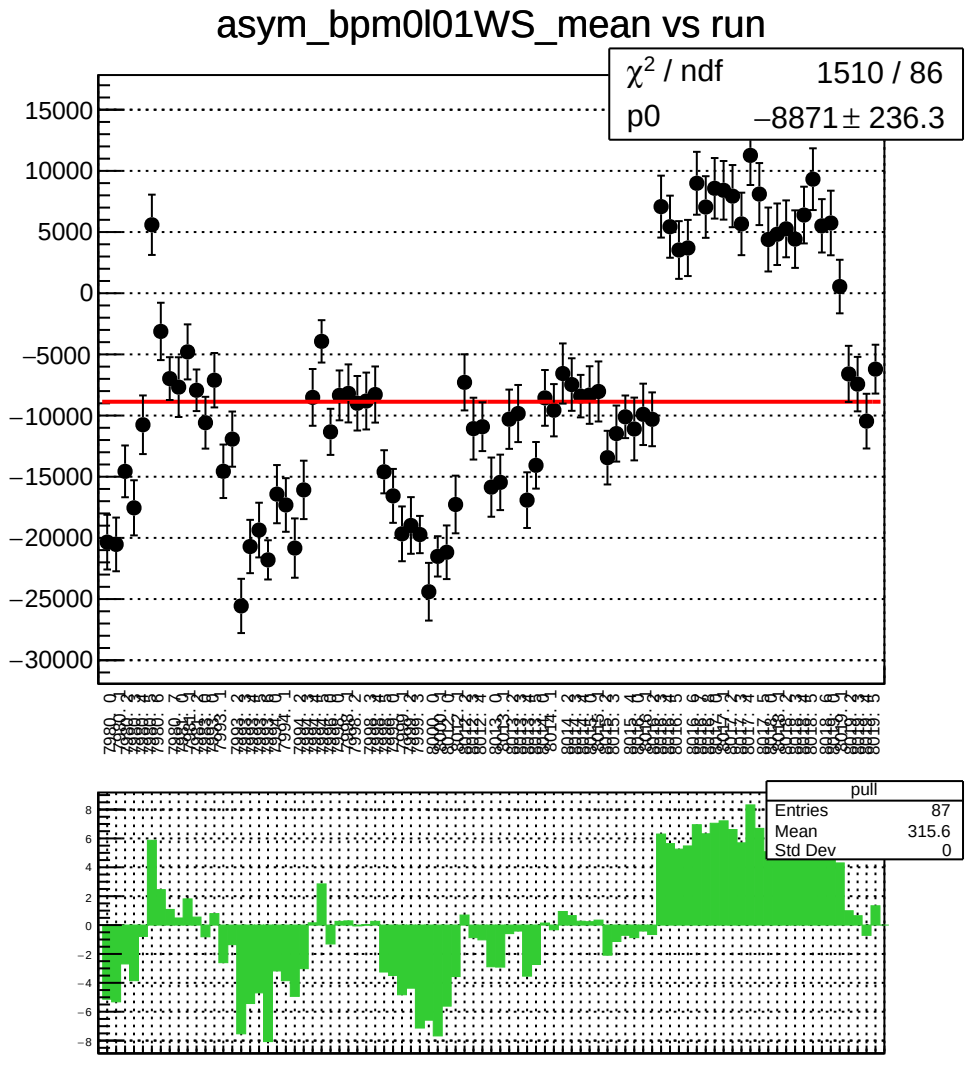

pull1D
Entries 87
Mean −0.2644
Std Dev 3.701

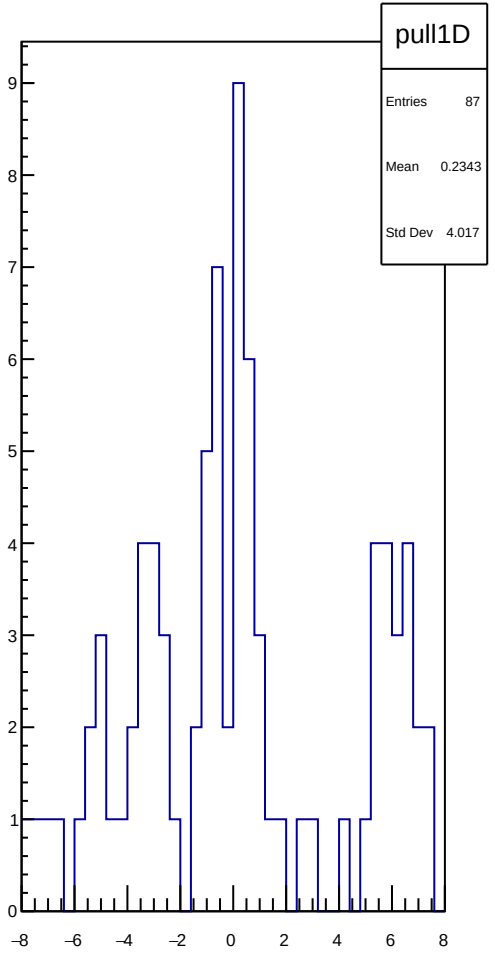

asym_bpm0i01WS_rms vs run
χ² / ndf 7164 / 86
p0 198.2 ± 0.1497
230
220
210
200
190
180
170

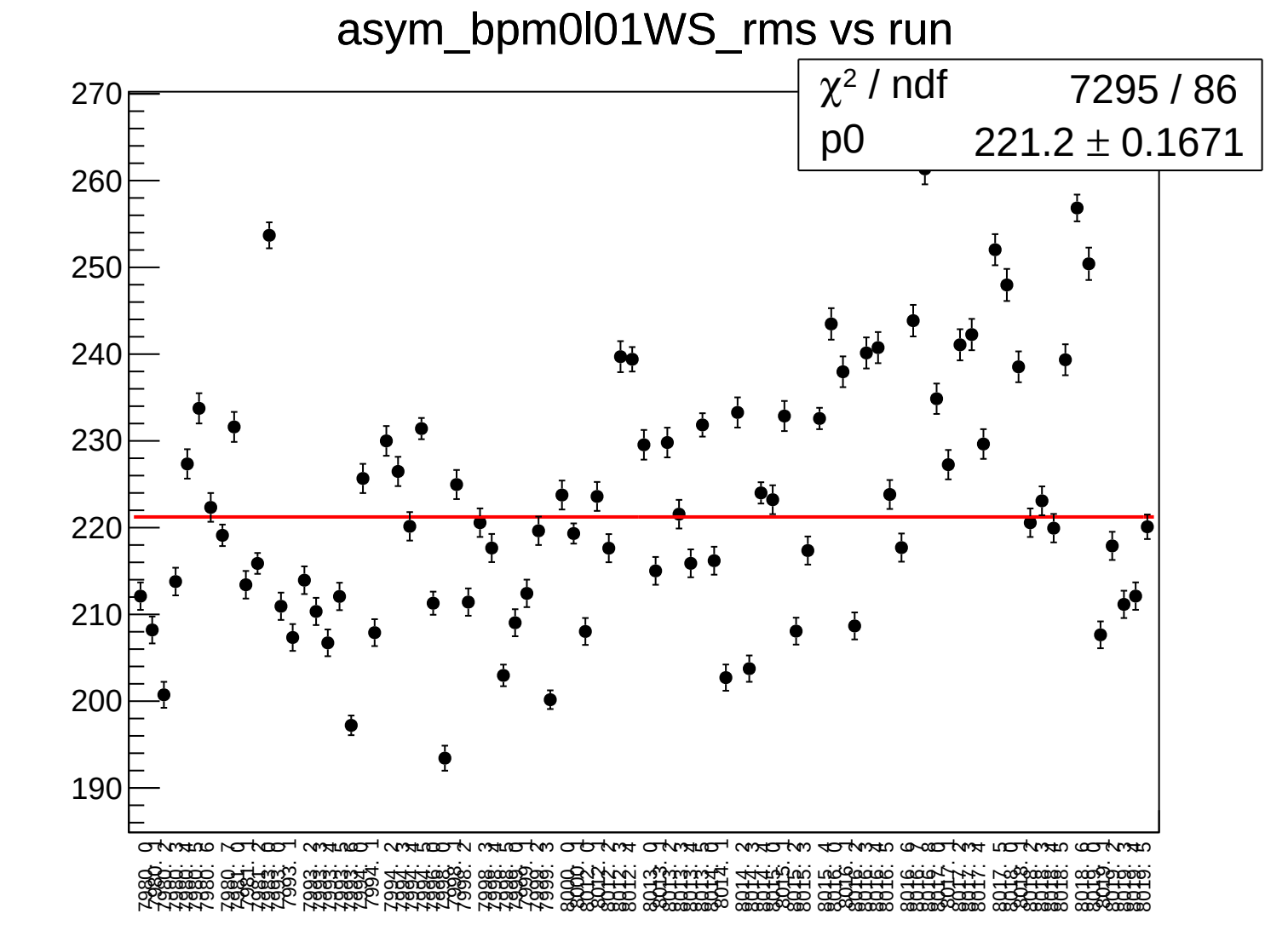

asym_bpm0i01aWS_mean vs run
χ² / ndf 2133 / 86
p0 −2336 ± 181.9
pull
Entries 87
Mean 1202
Std Dev 0

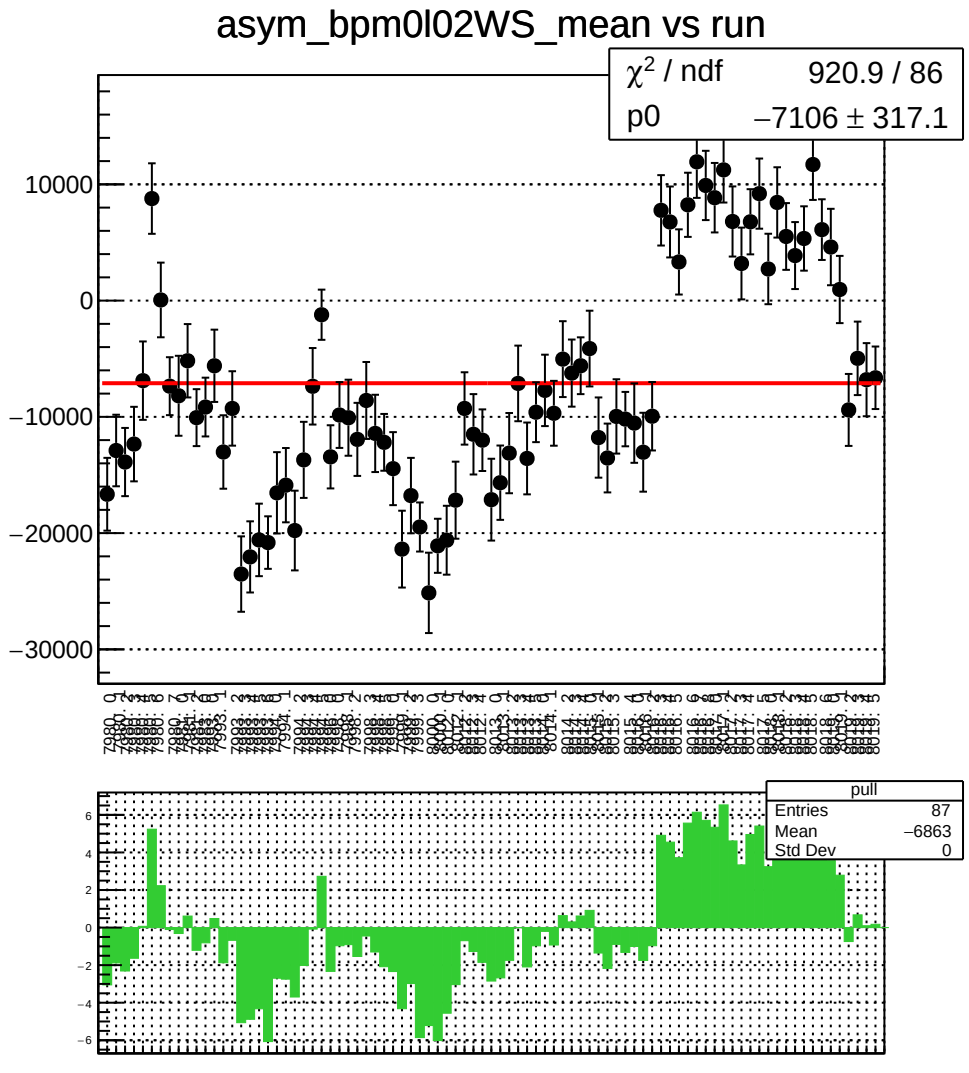

pull1D
Entries 87
Mean −0.5818
Std Dev 3.962

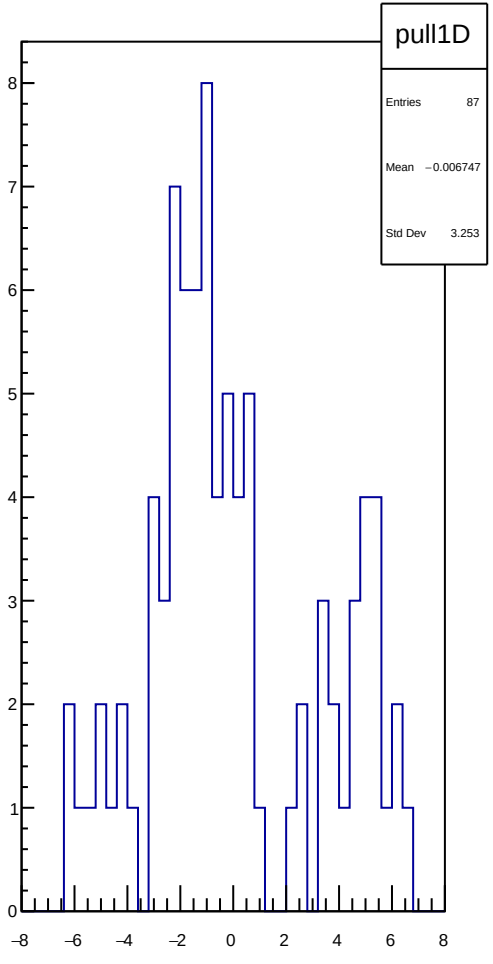

asym_bpm0i01aWS_rms vs run
χ² / ndf 7560 / 86
p0 170.3 ± 0.1286
200
190
180
170
160
150

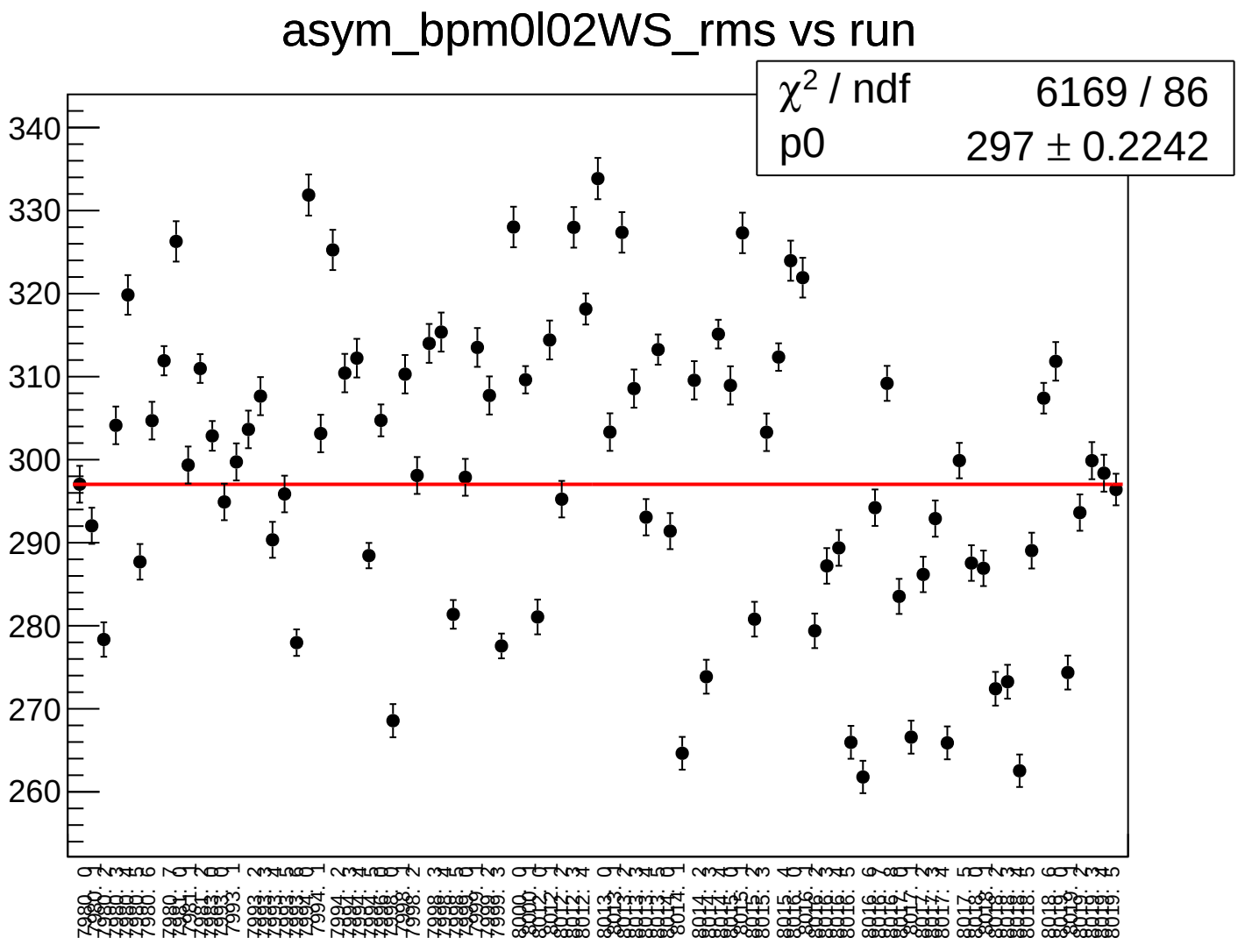

asym_bpm0l01WS_mean vs run
χ² / ndf 1510 / 86
p0 −8871 ± 236.3
pull
Entries 87
Mean 315.6
Std Dev 0

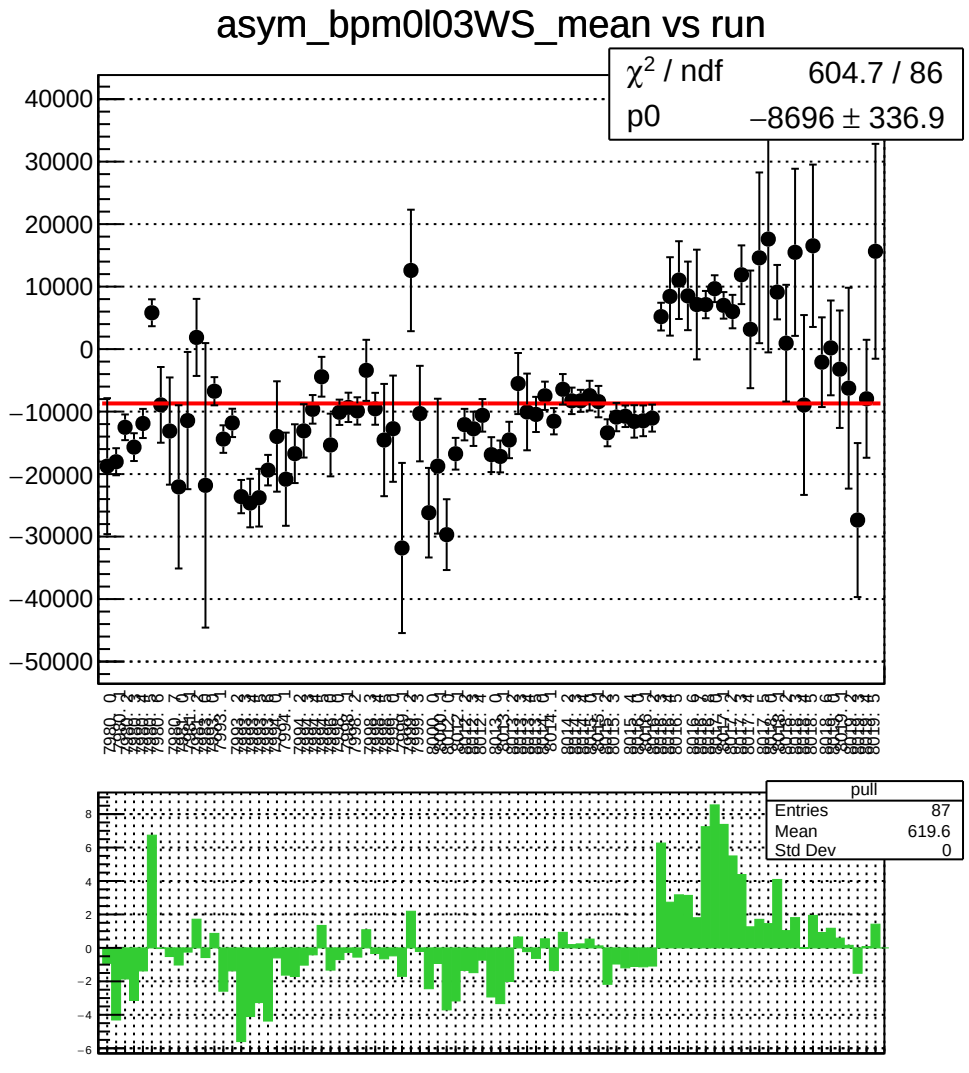

pull1D
Entries 87
Mean 0.2343
Std Dev 4.017

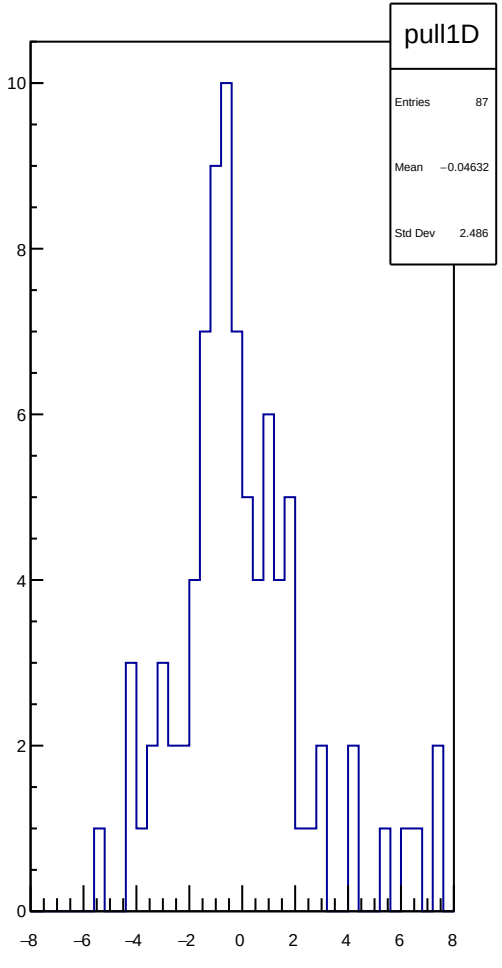

asym_bpm0l01WS_rms vs run
χ² / ndf 7295 / 86
p0 221.2 ± 0.1671
270
260
250
240
230
220
210
200
190


asym_bpm0l02WS_mean vs run
χ² / ndf 920.9 / 86
p0 −7106 ± 317.1
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −6863
Std Dev 0
6
4
2
0
−2
−4
−6

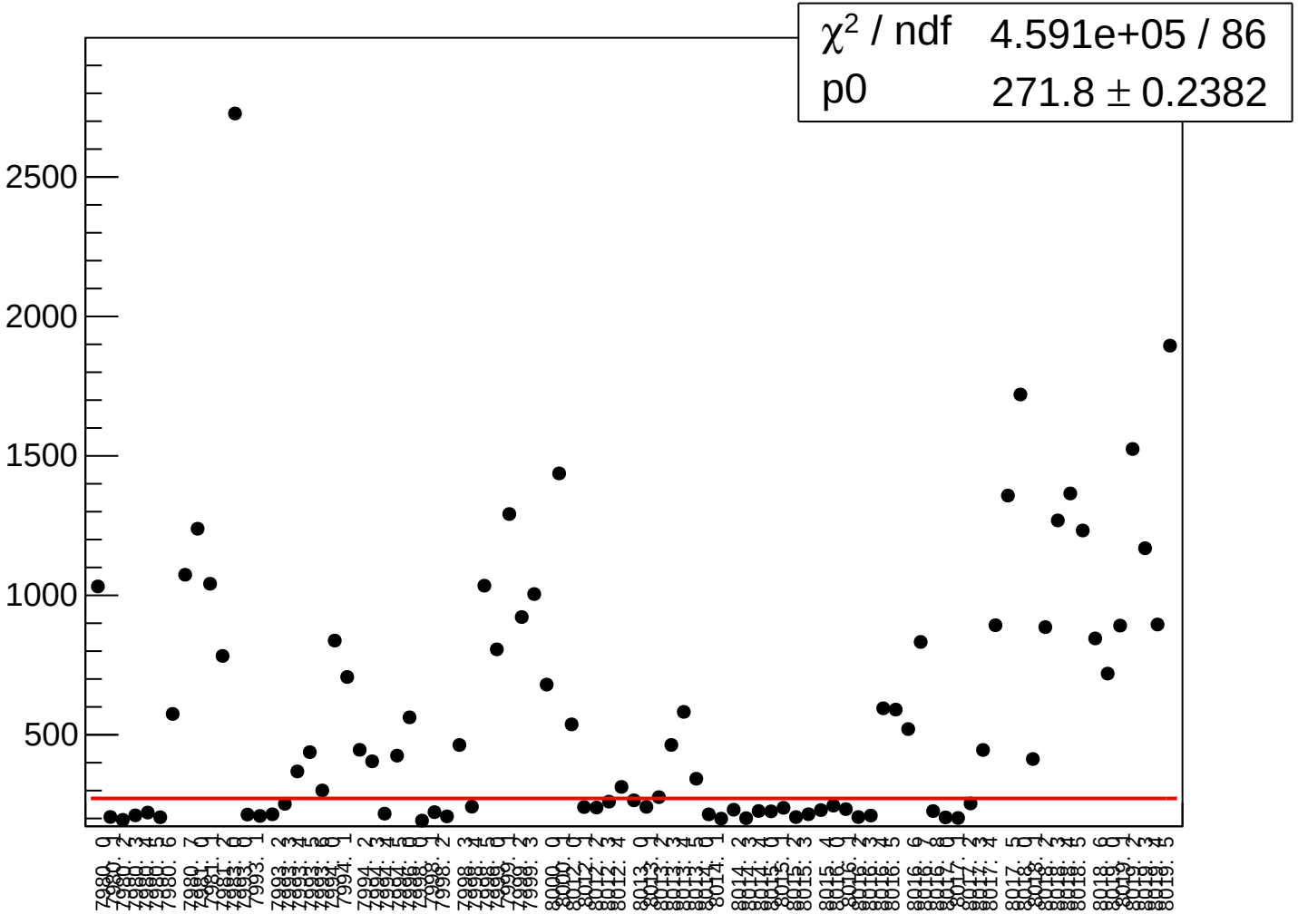

pull1D
Entries 87
Mean −0.006747
Std Dev 3.253
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

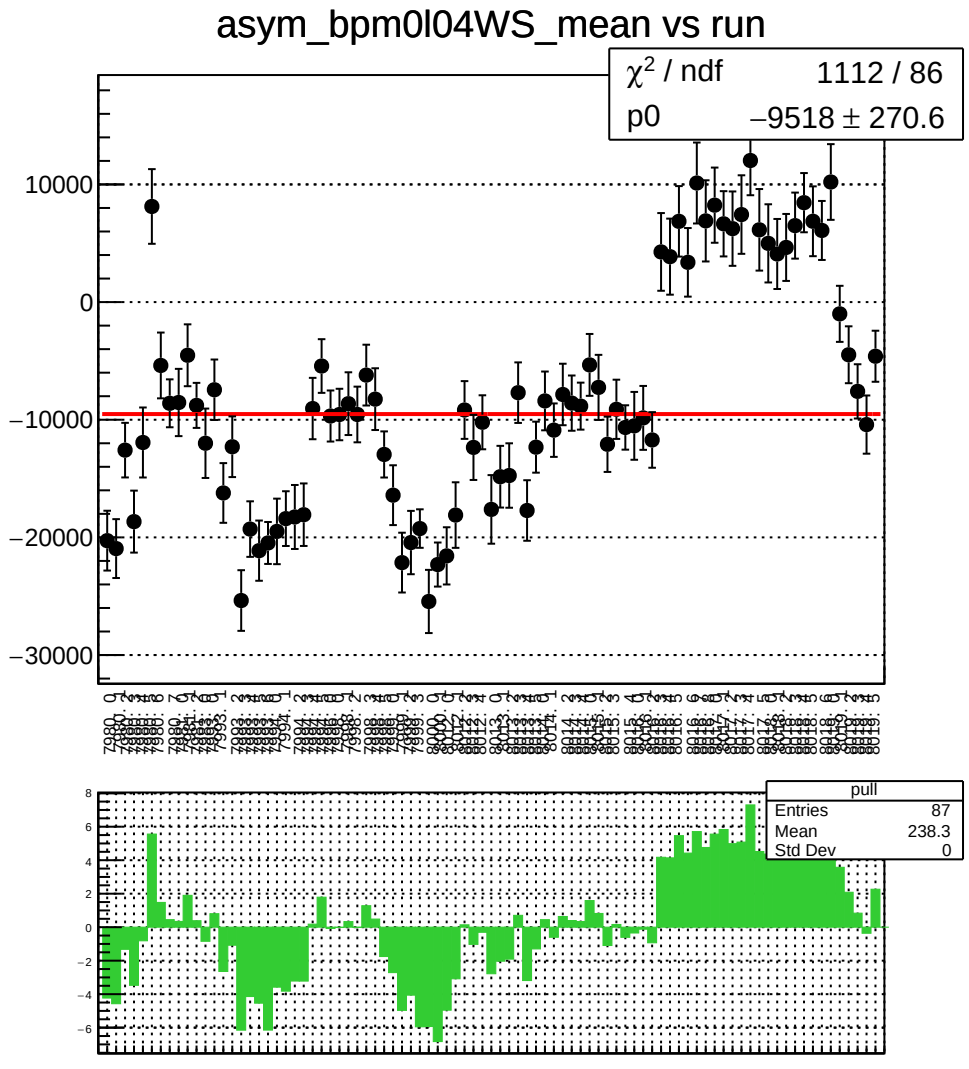

asym_bpm0l02WS_rms vs run
χ² / ndf 6169 / 86
p0 297 ± 0.2242
340
330
320
310
300
290
280
270
260

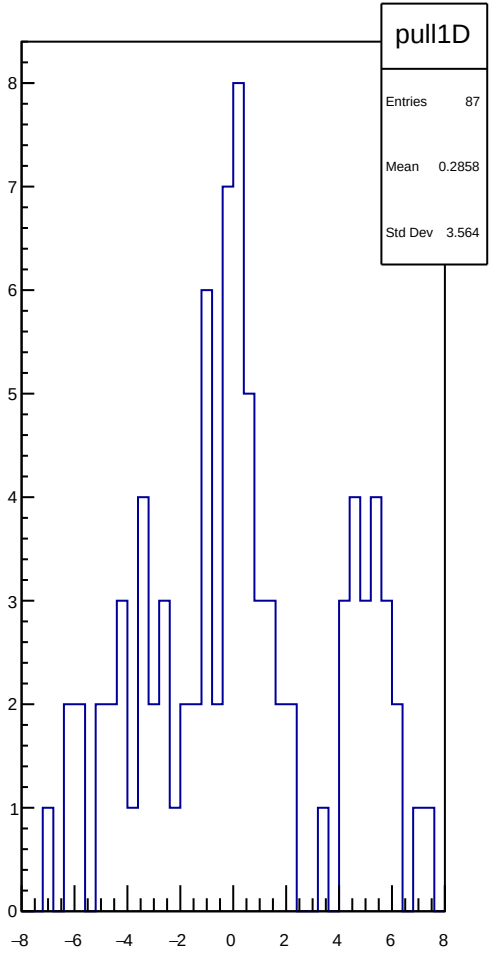

asym_bpm0l03WS_mean vs run
χ² / ndf 604.7 / 86
p0 −8696 ± 336.9
pull
Entries 87
Mean 619.6
Std Dev 0

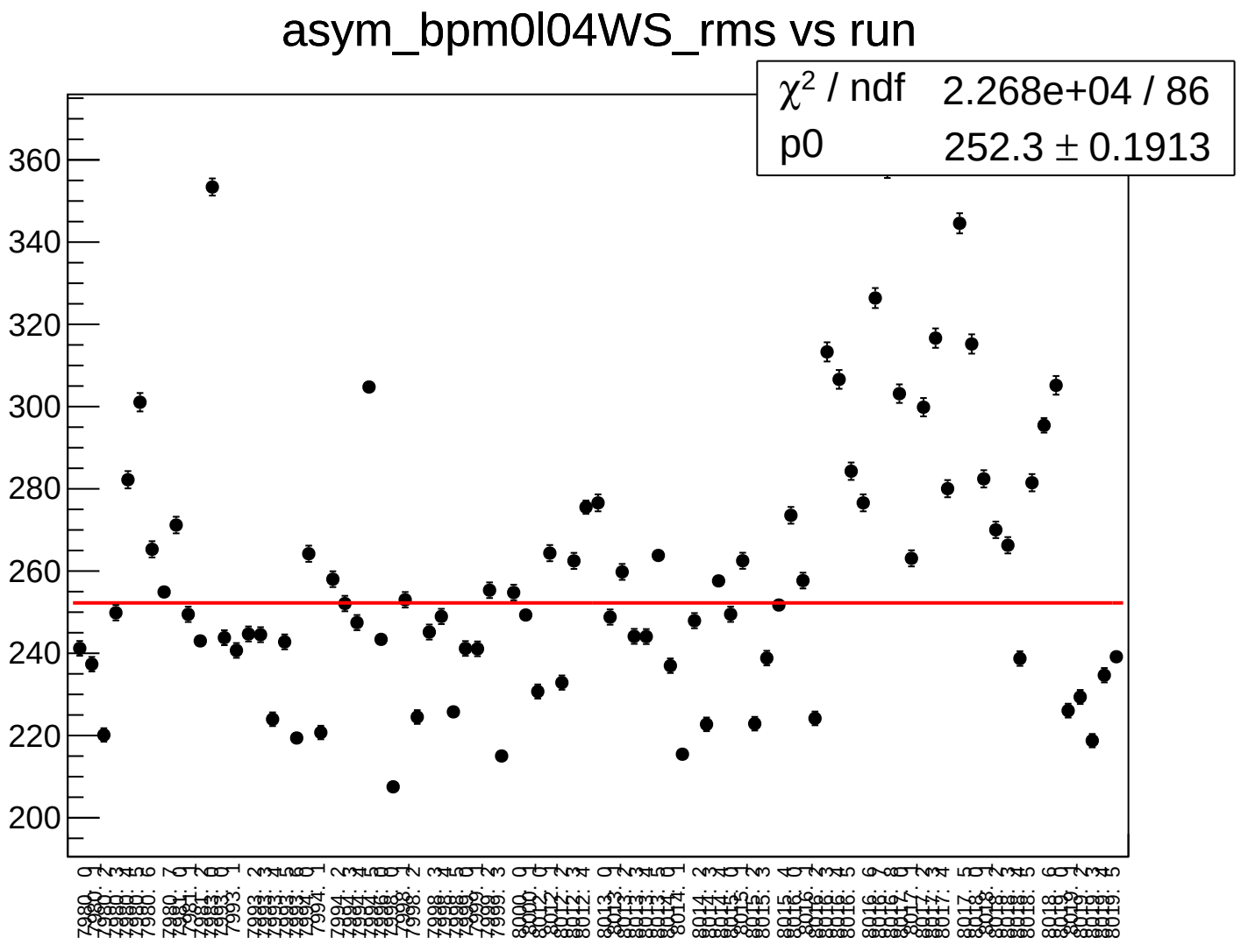

pull1D
Entries 87
Mean −0.04632
Std Dev 2.486

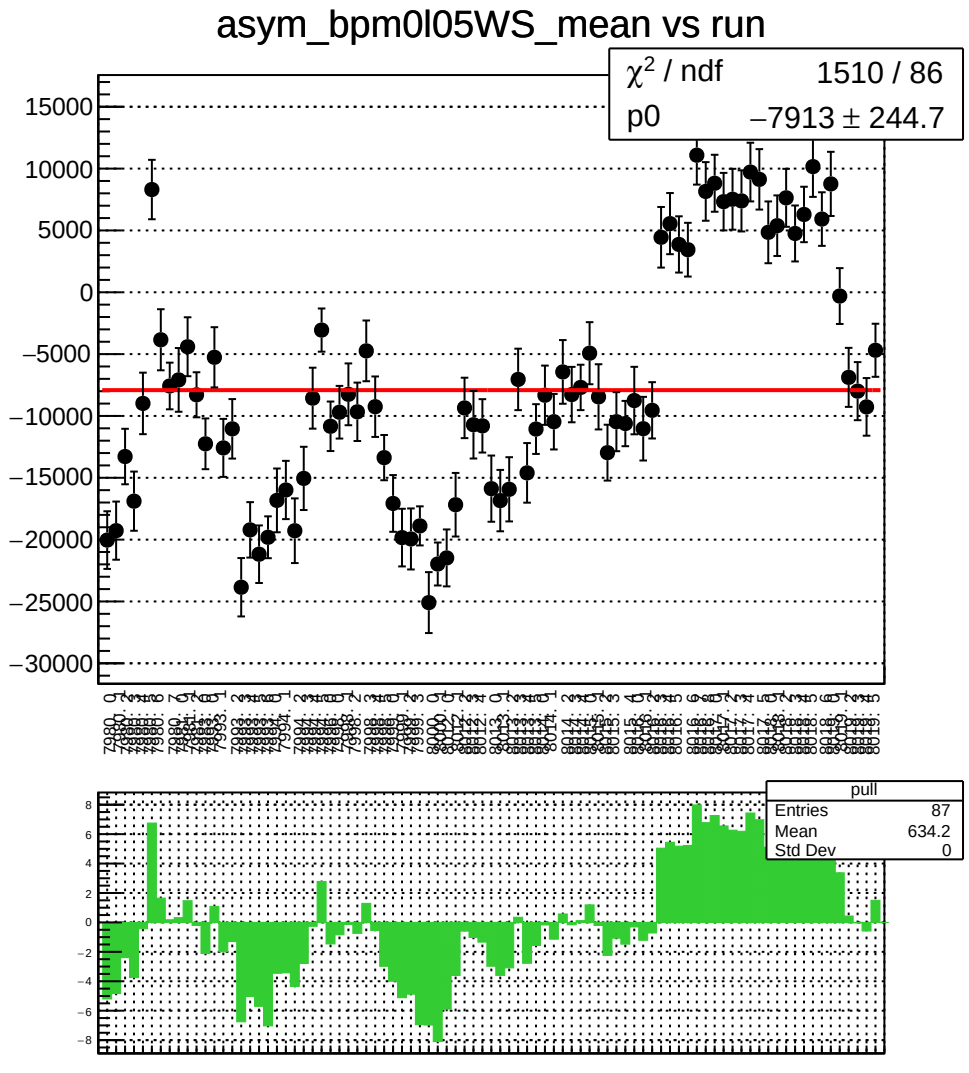
asym_bpm0l03WS_rms vs run

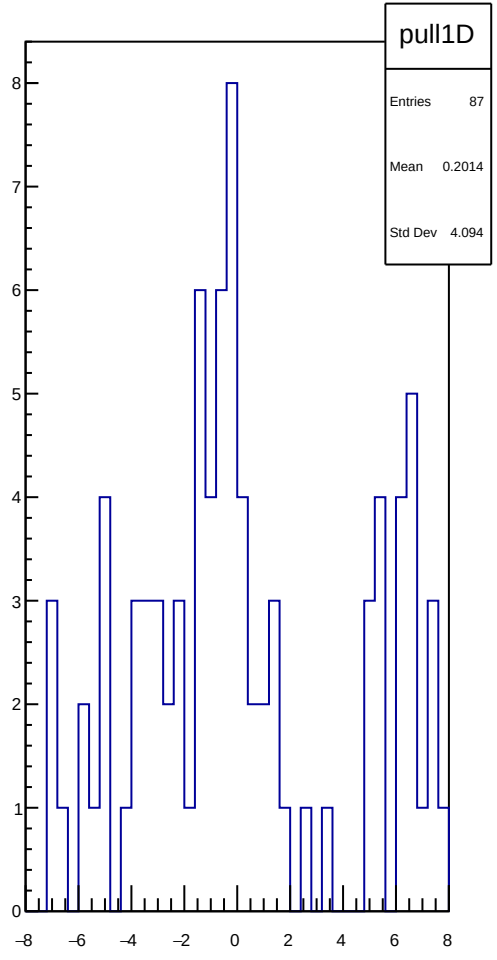


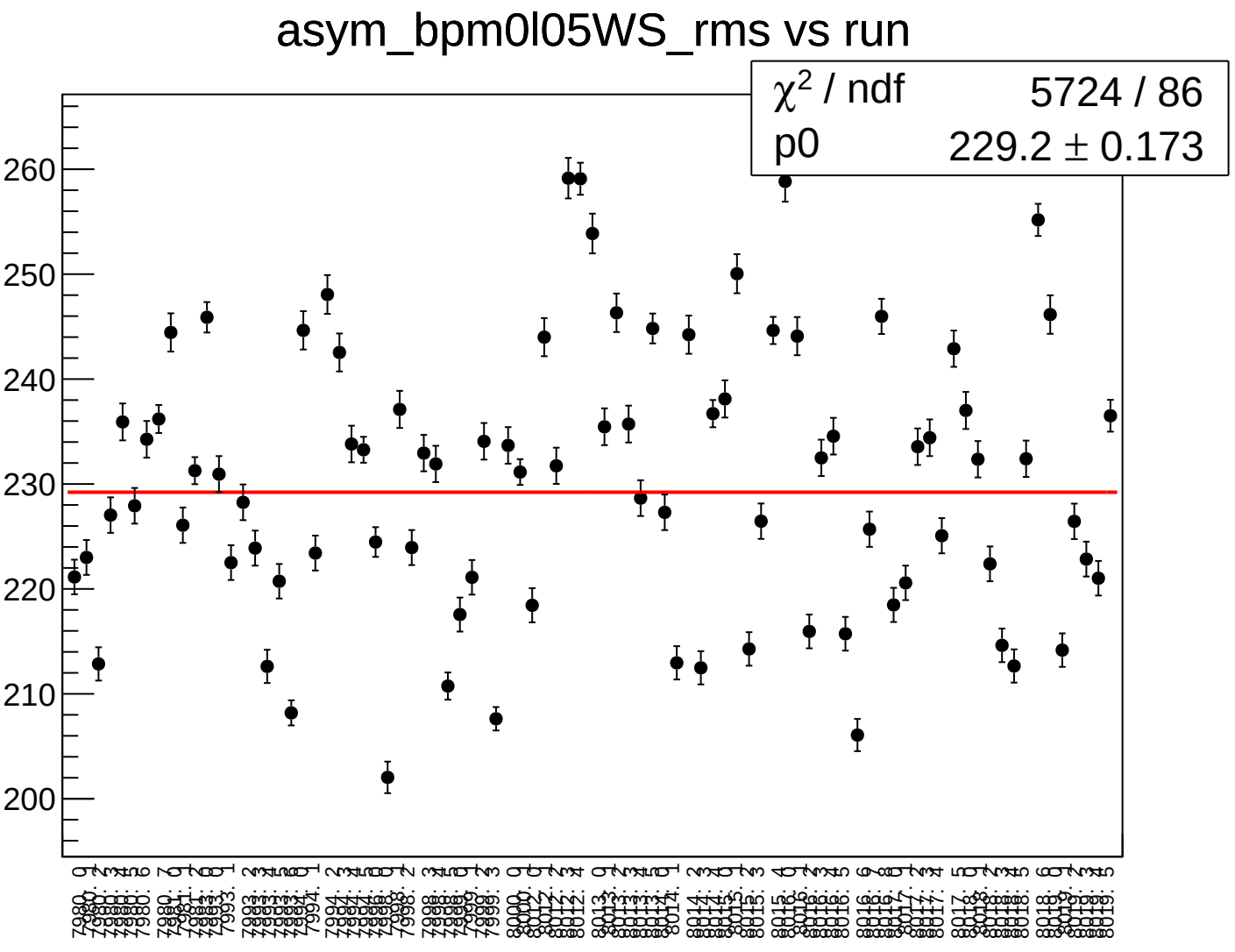

asym_bpm0l04WS_mean vs run
χ² / ndf 1112 / 86
p0 −9518 ± 270.6
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 238.3
Std Dev 0

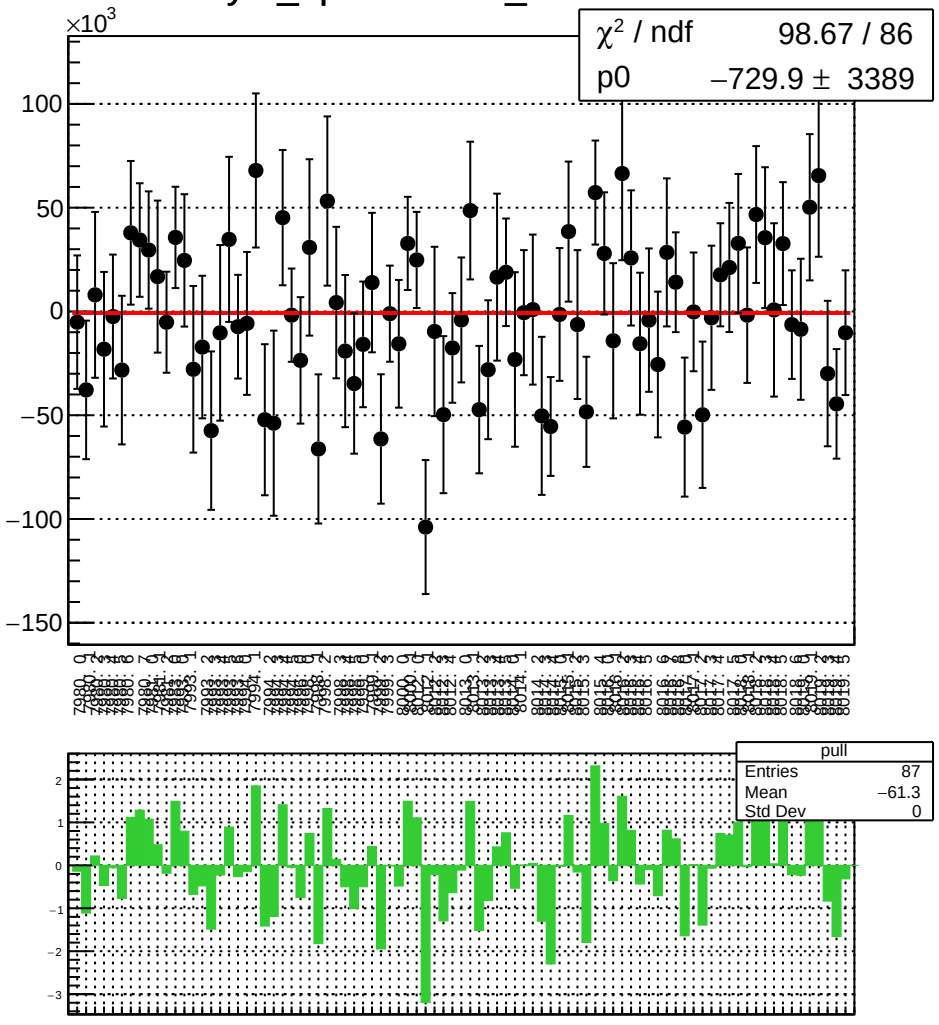

pull1D
Entries 87
Mean 0.2858
Std Dev 3.564

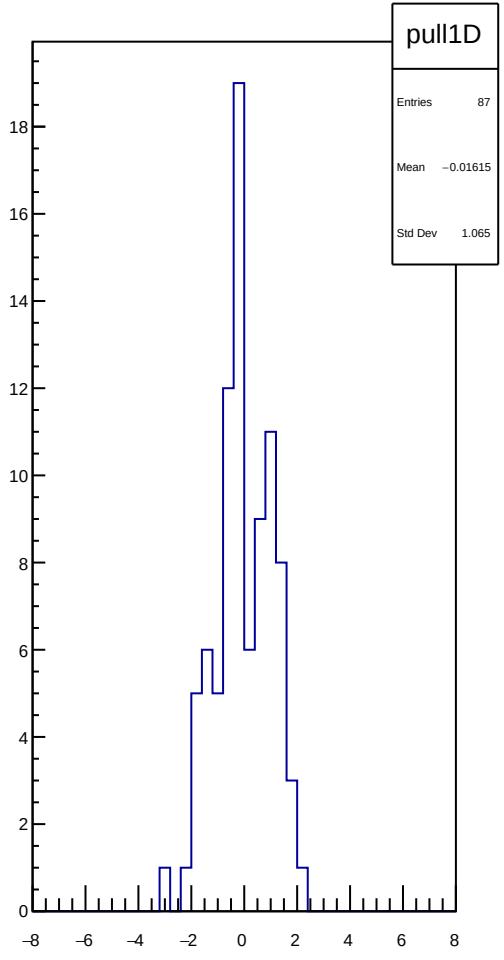

asym_bpm0l04WS_rms vs run
χ² / ndf 2.268e+04 / 86
p0 252.3 ± 0.1913
360
340
320
300
280
260
240
220
200

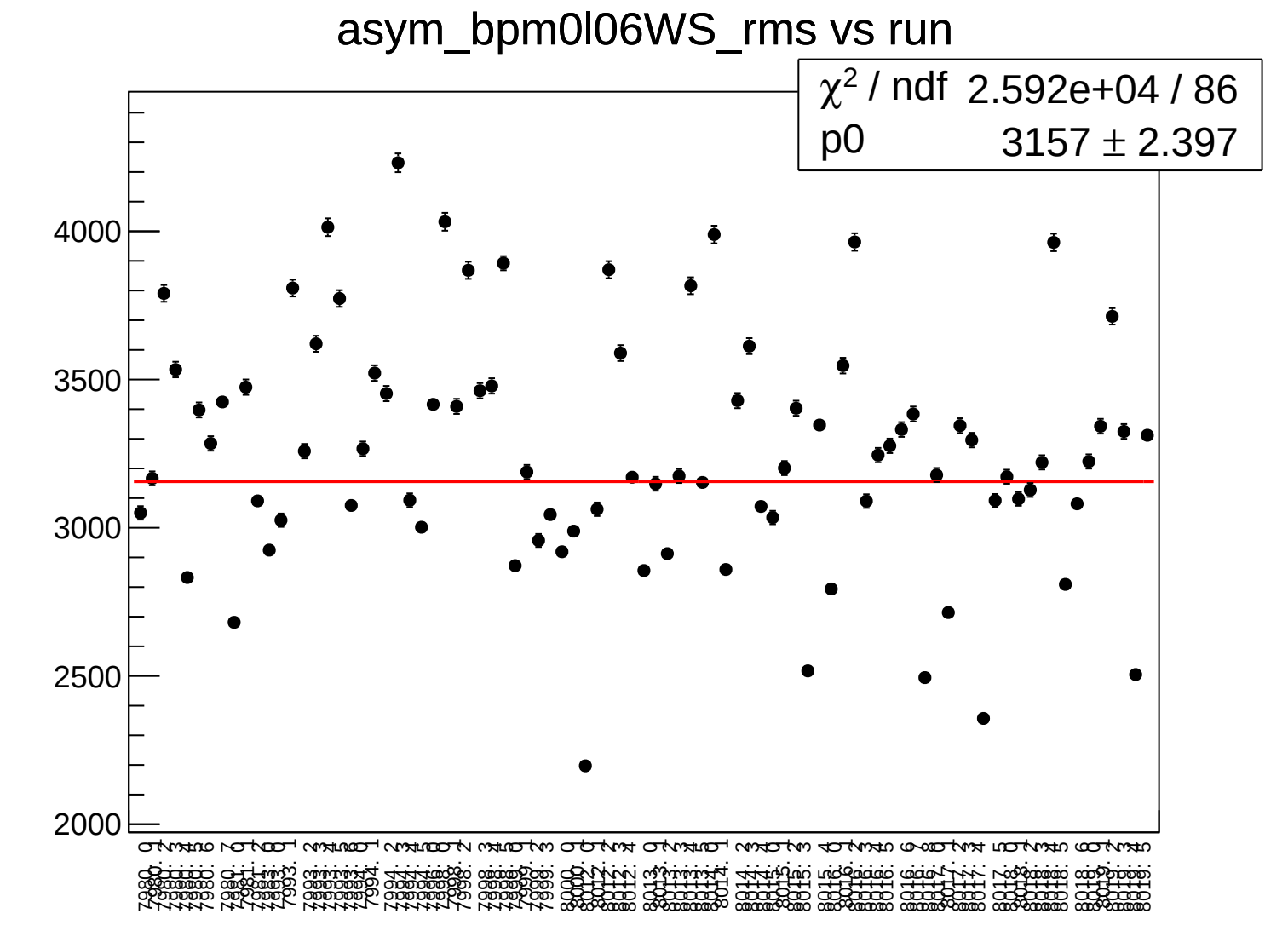

asym_bpm0l05WS_mean vs run
χ² / ndf 1510 / 86
p0 −7913 ± 244.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
pull
Entries 87
Mean 634.2
Std Dev 0

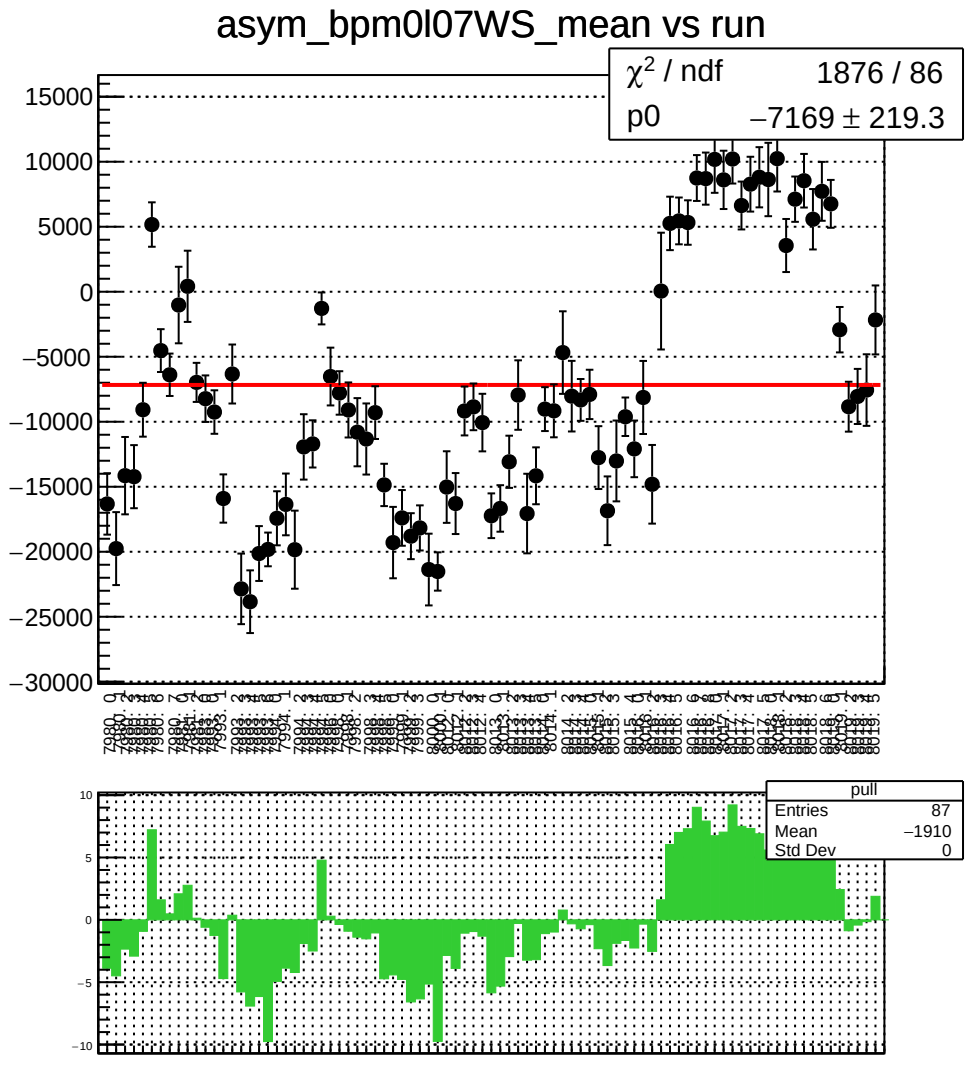

pull1D
Entries 87
Mean 0.2014
Std Dev 4.094

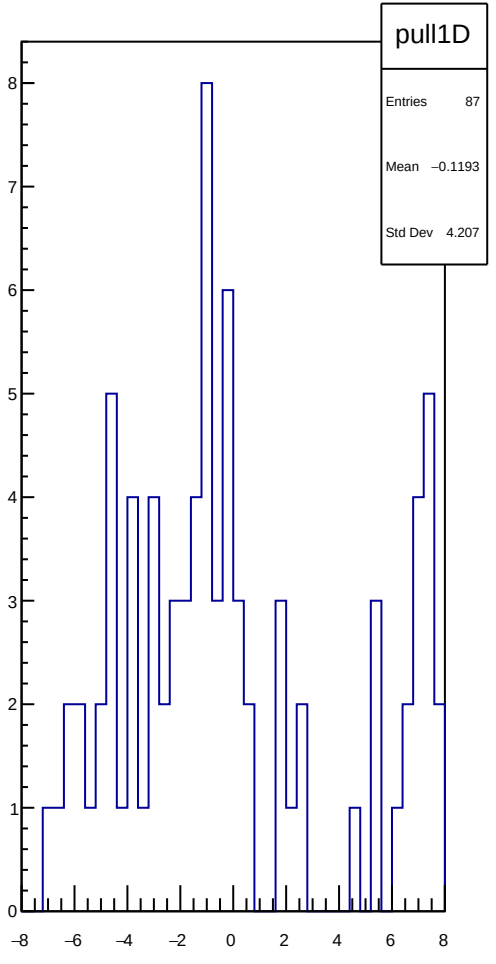

asym_bpm0l05WS_rms vs run
χ^2 / ndf 5724 / 86
p0 229.2 ± 0.173
260
250
240
230
220
210
200

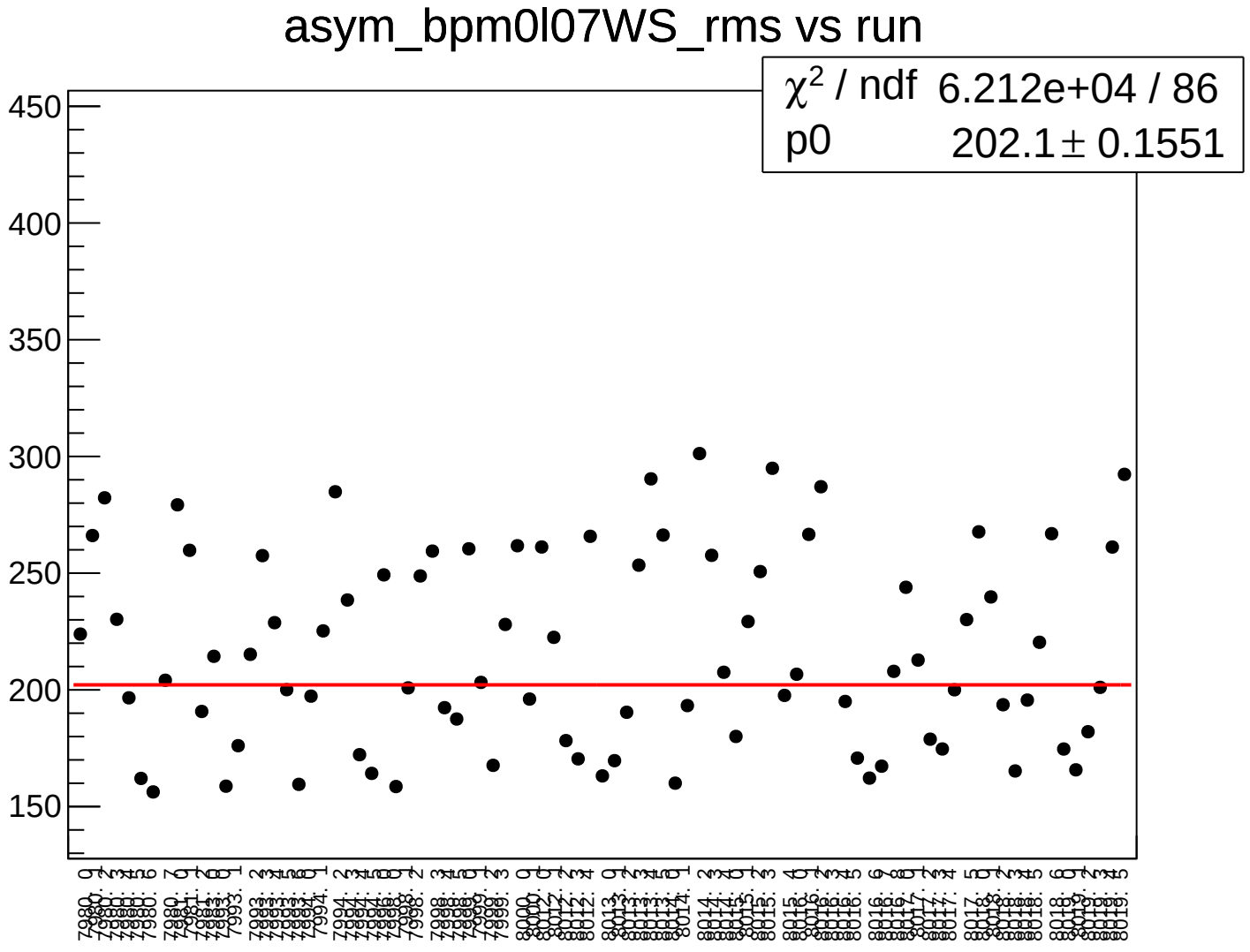

asym_bpm0l06WS_mean vs run
×10^3
χ² / ndf 98.67 / 86
p0 −729.9 ± 3389
100
50
0
−50
−100
−150
pull
Entries 87
Mean −61.3
Std Dev 0
2
1
0
−1
−2
−3

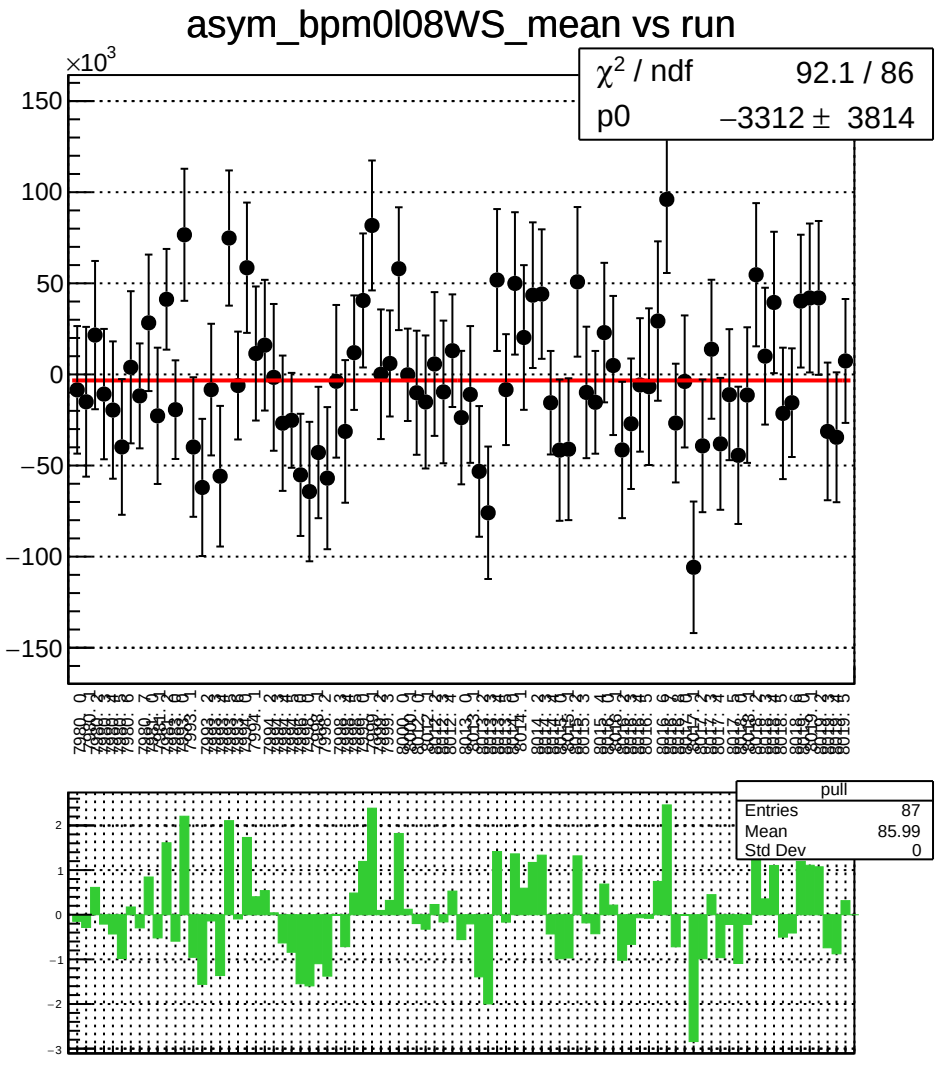

pull1D
Entries 87
Mean −0.01615
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

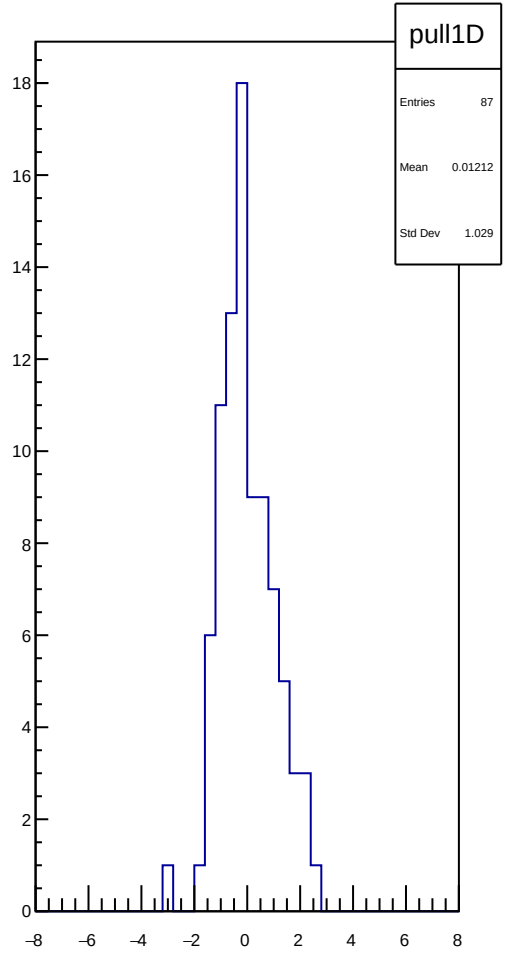

asym_bpm0l06WS_rms vs run
χ² / ndf 2.592e+04 / 86
p0 3157 ± 2.397
4000
3500
3000
2500
2000

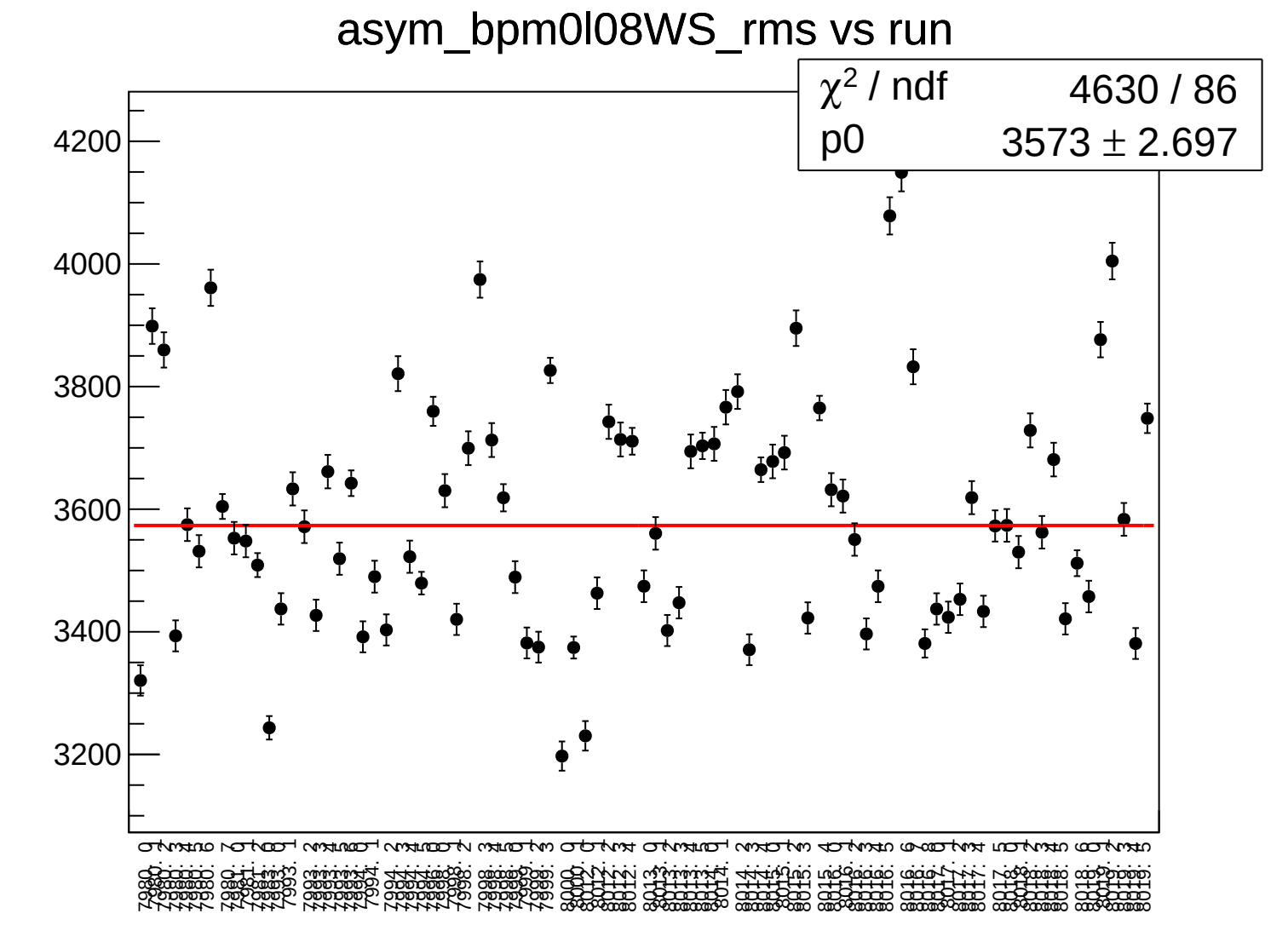

asym_bpm0l07WS_mean vs run
χ² / ndf 1876 / 86
p0 −7169 ± 219.3
pull
Entries 87
Mean −1910
Std Dev 0

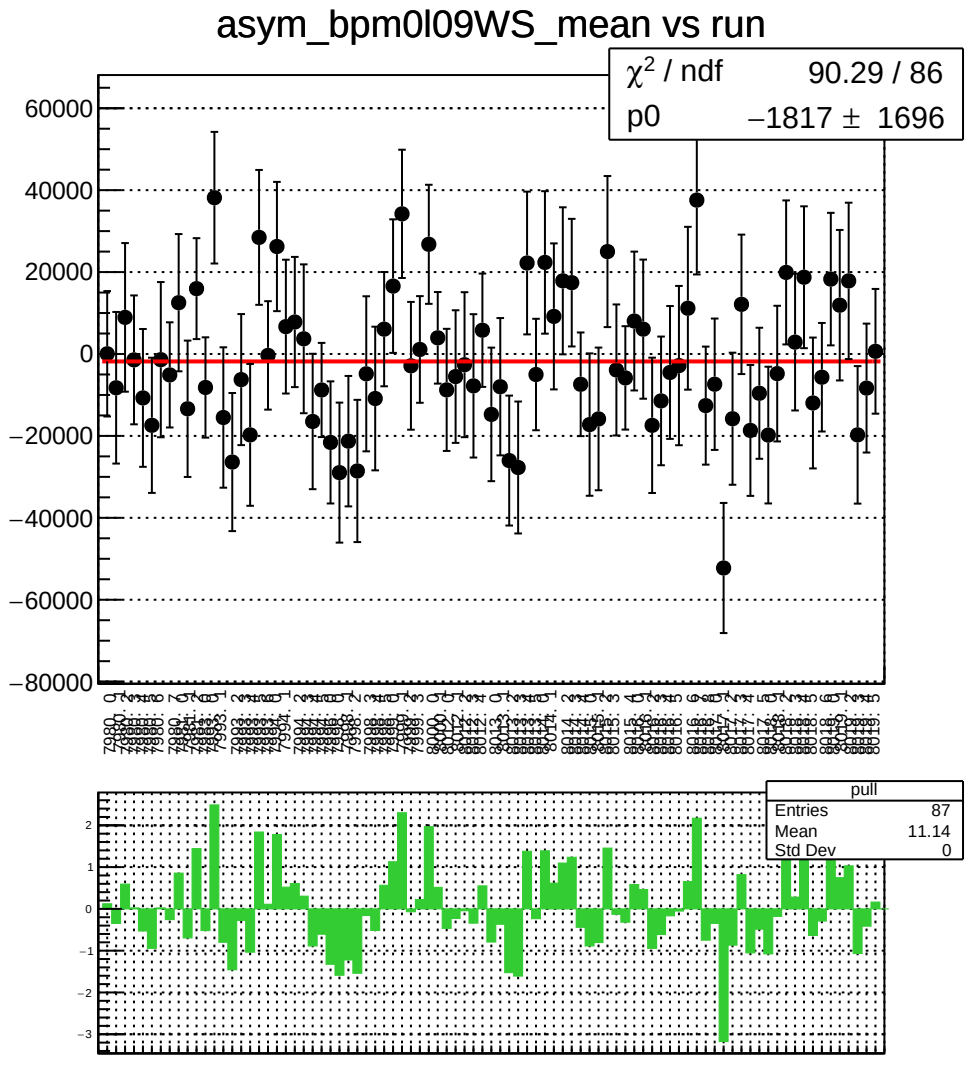

pull1D
Entries 87
Mean −0.1193
Std Dev 4.207

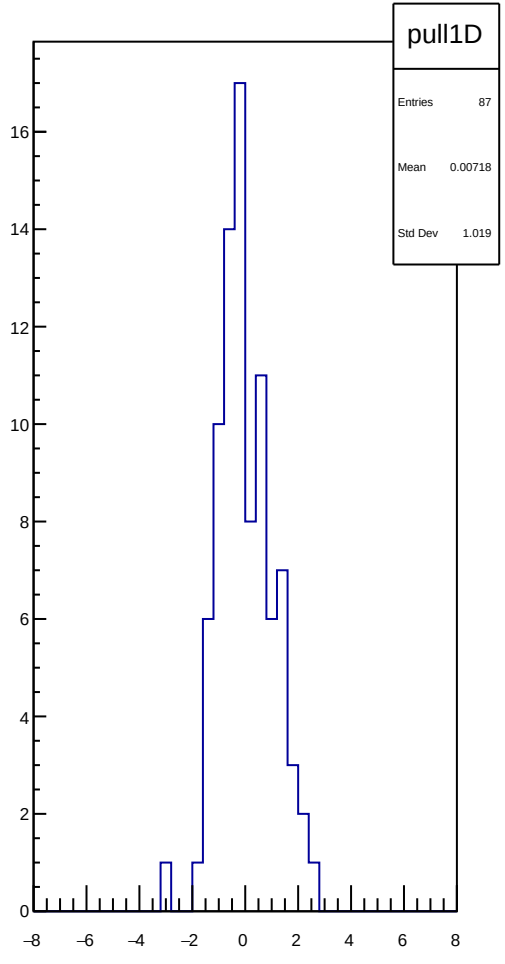

asym_bpm0l07WS_rms vs run
χ^2 / ndf 6.212e+04 / 86
p0 202.1 ± 0.1551
450
400
350
300
250
200
150

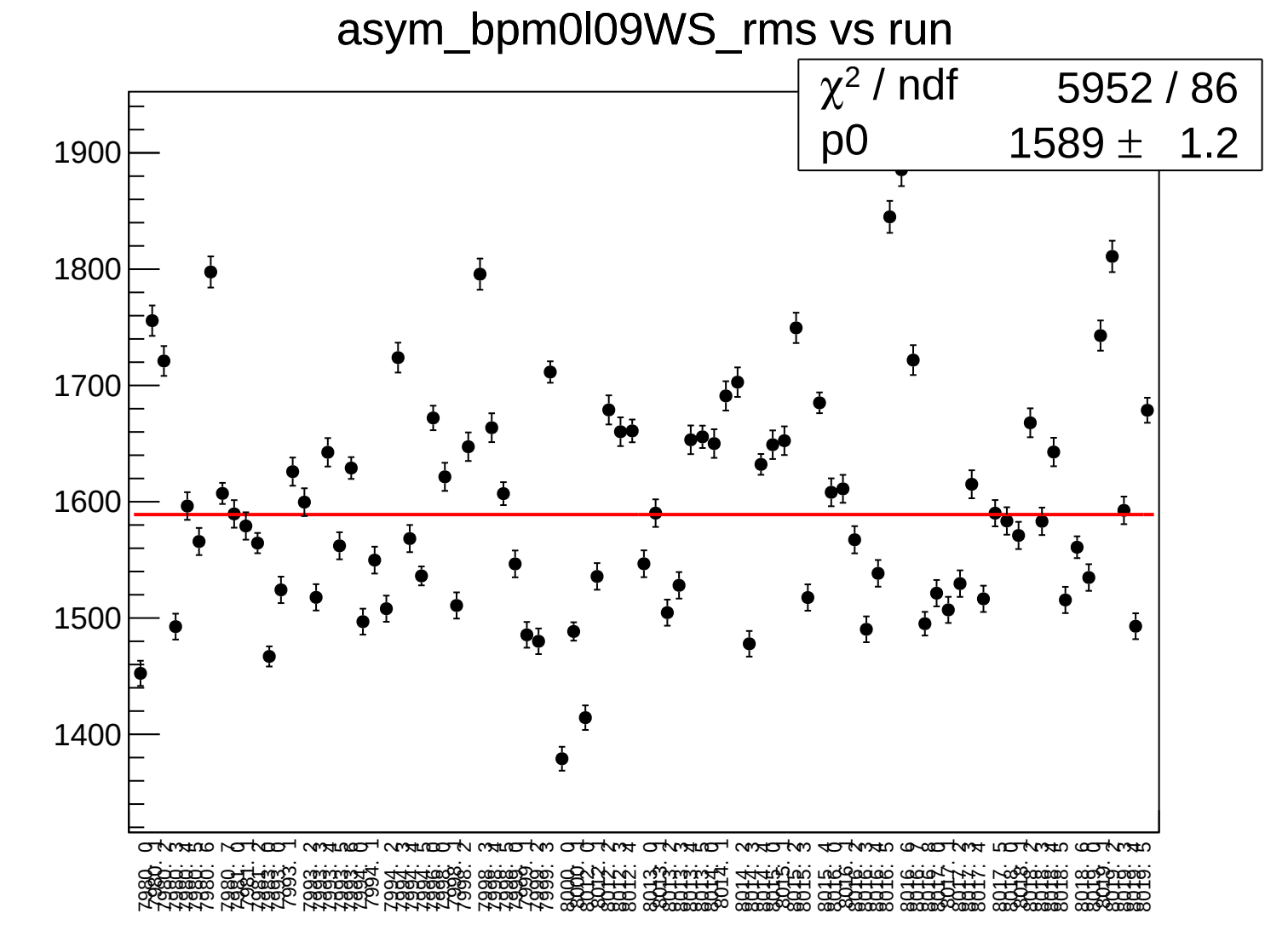

asym_bpm0l08WS_mean vs run
×10^3
χ² / ndf 92.1 / 86
p0 −3312 ± 3814
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 85.99
Std Dev 0
2
1
0
−1
−2
−3

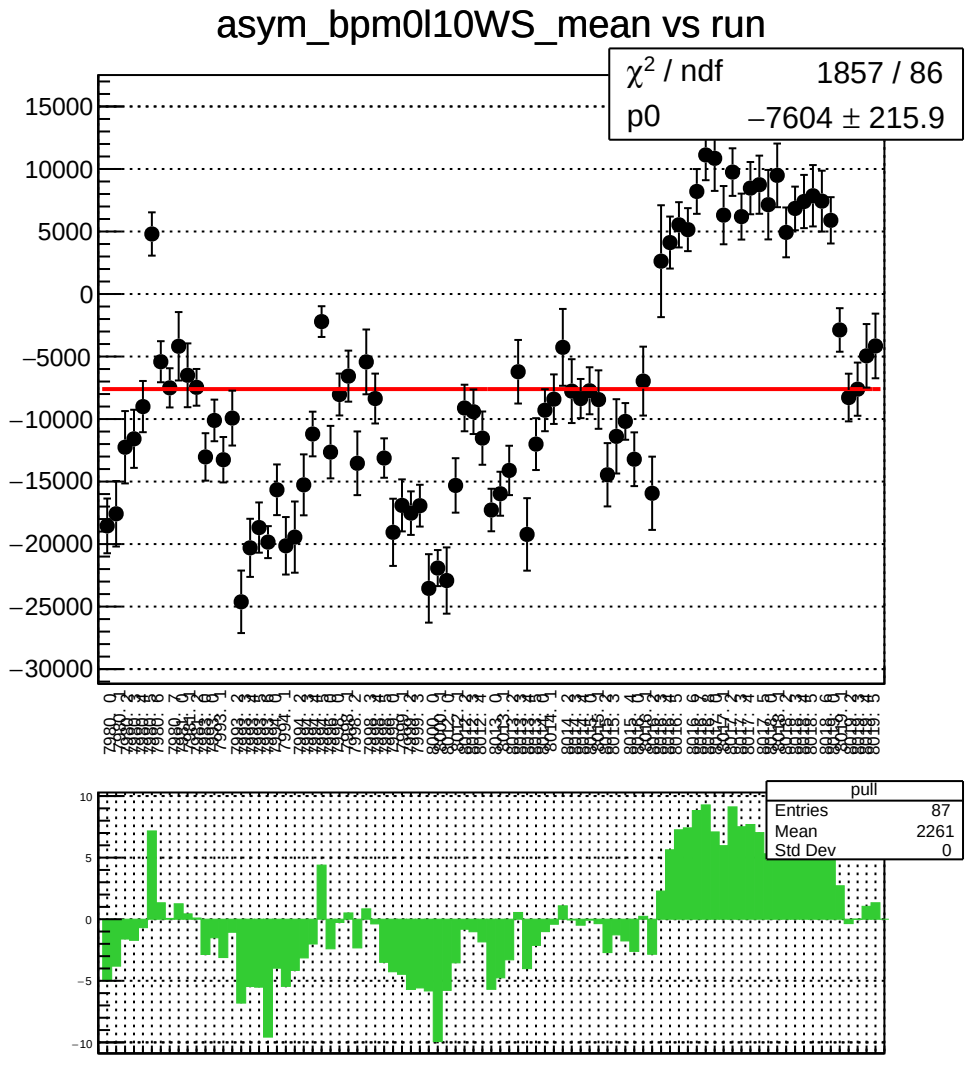

pull1D
Entries 87
Mean 0.01212
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

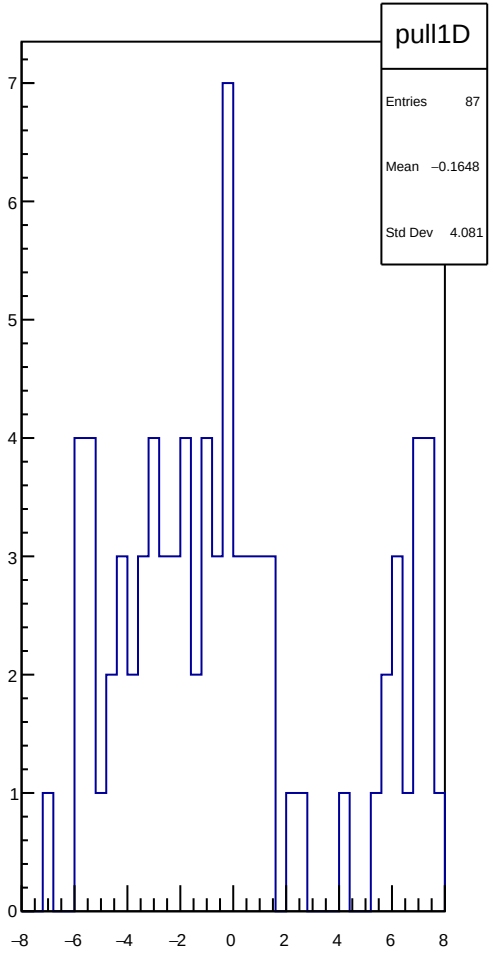

asym_bpm0l08WS_rms vs run
χ² / ndf 4630 / 86
p0 3573 ± 2.697
4200
4000
3800
3600
3400
3200

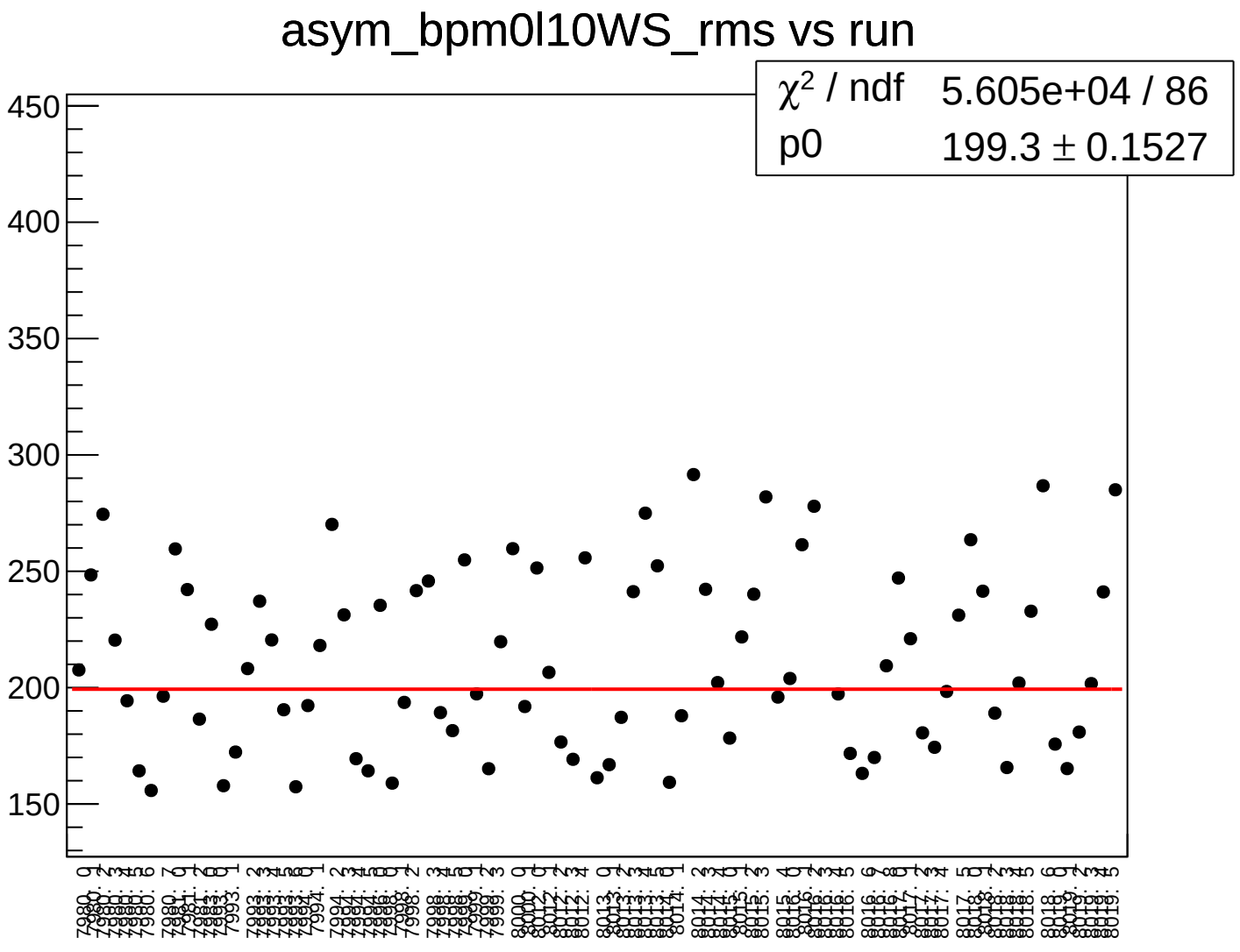

asym_bpm0l09WS_mean vs run
χ² / ndf 90.29 / 86
p0 −1817 ± 1696
pull
Entries 87
Mean 11.14
Std Dev 0

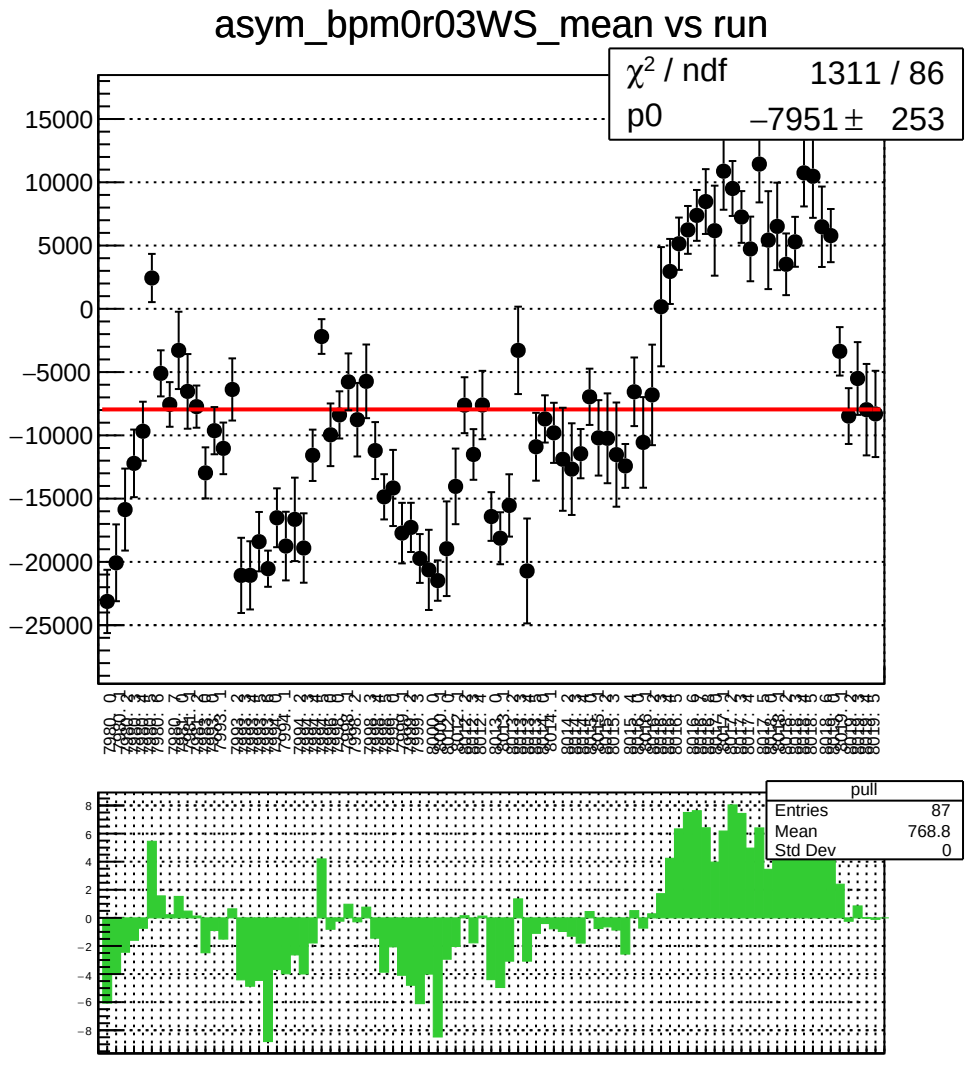

pull1D
Entries 87
Mean 0.00718
Std Dev 1.019

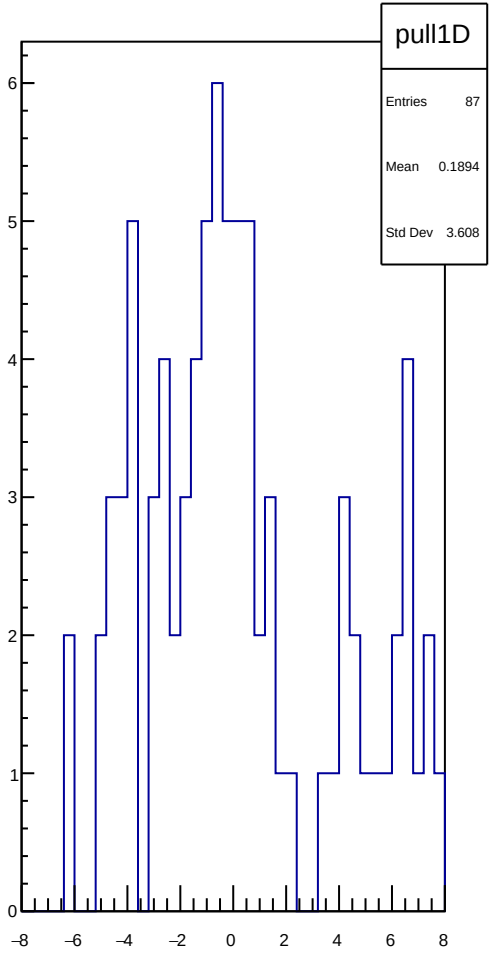

asym_bpm0l09WS_rms vs run
χ² / ndf 5952 / 86
p0 1589 ± 1.2
1900
1800
1700
1600
1500
1400

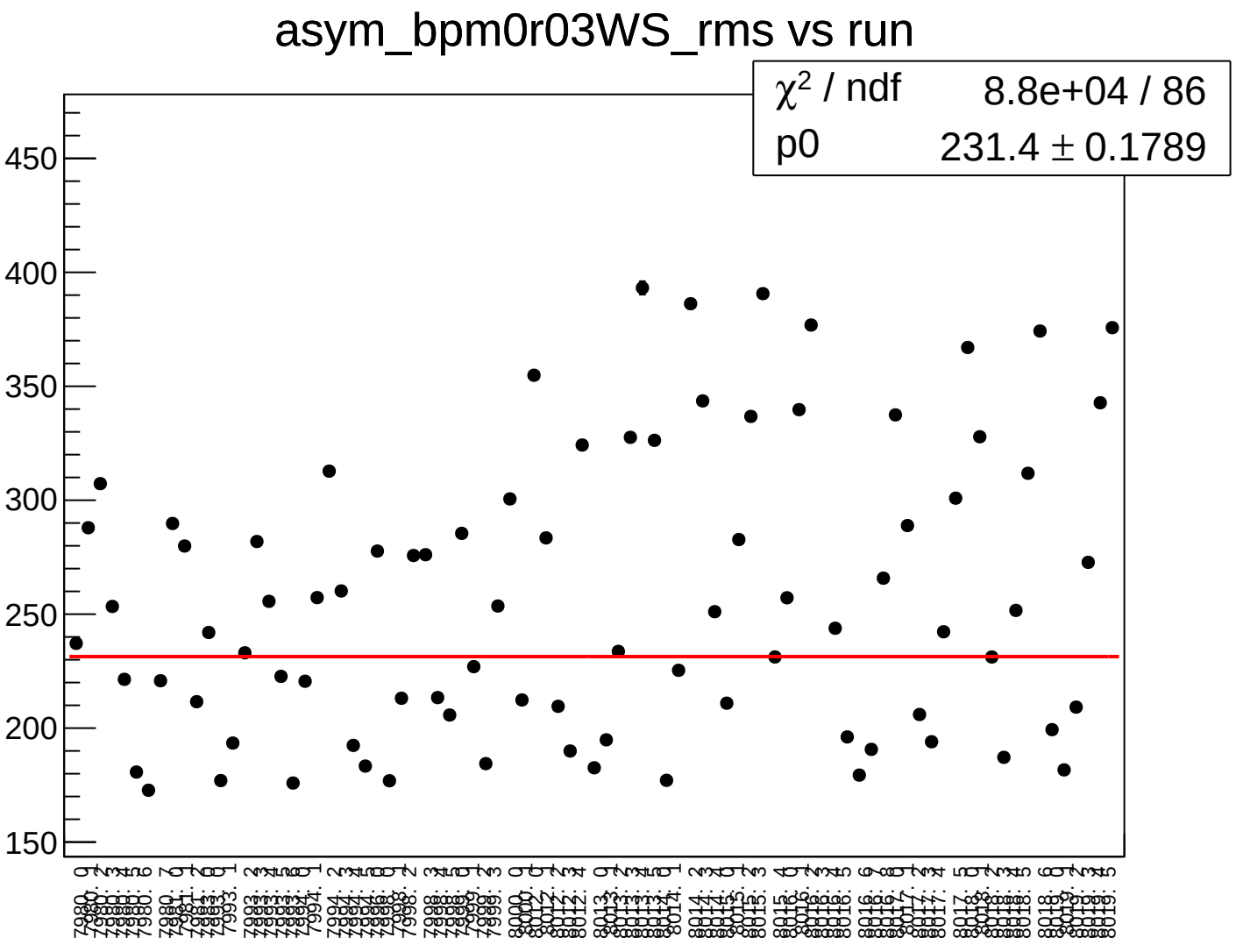

asym_bpm0l10WS_mean vs run
χ² / ndf 1857 / 86
p0 −7604 ± 215.9
pull
Entries 87
Mean 2261
Std Dev 0

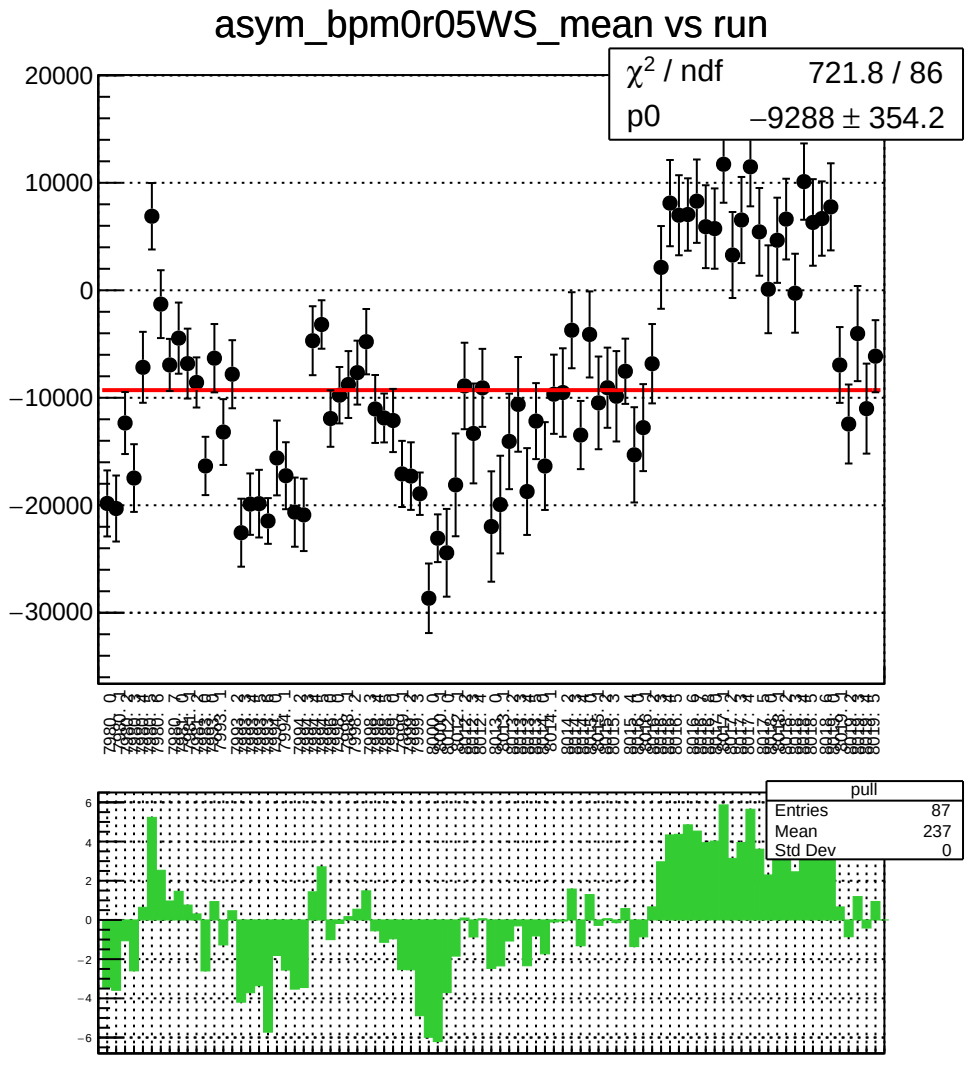

pull1D
Entries 87
Mean −0.1648
Std Dev 4.081

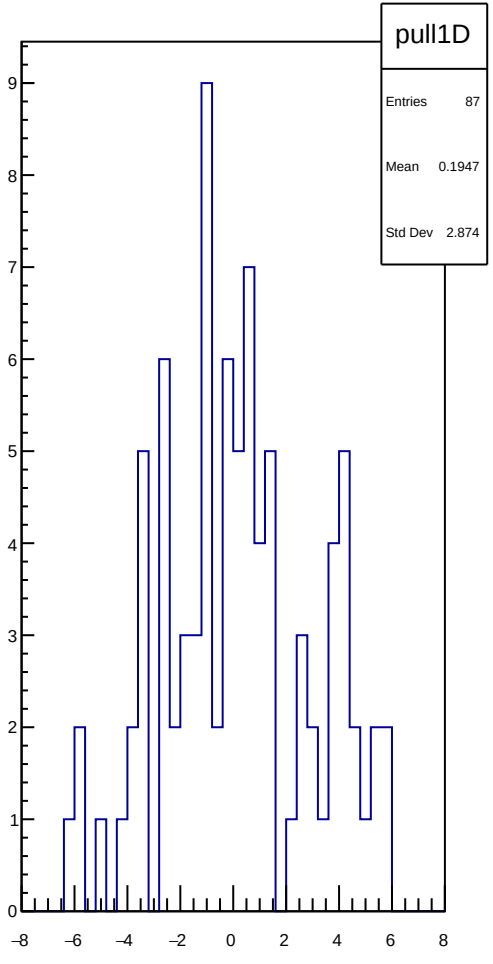

asym_bpm0l10WS_rms vs run
χ^2 / ndf 5.605e+04 / 86
p0 199.3 ± 0.1527
450
400
350
300
250
200
150

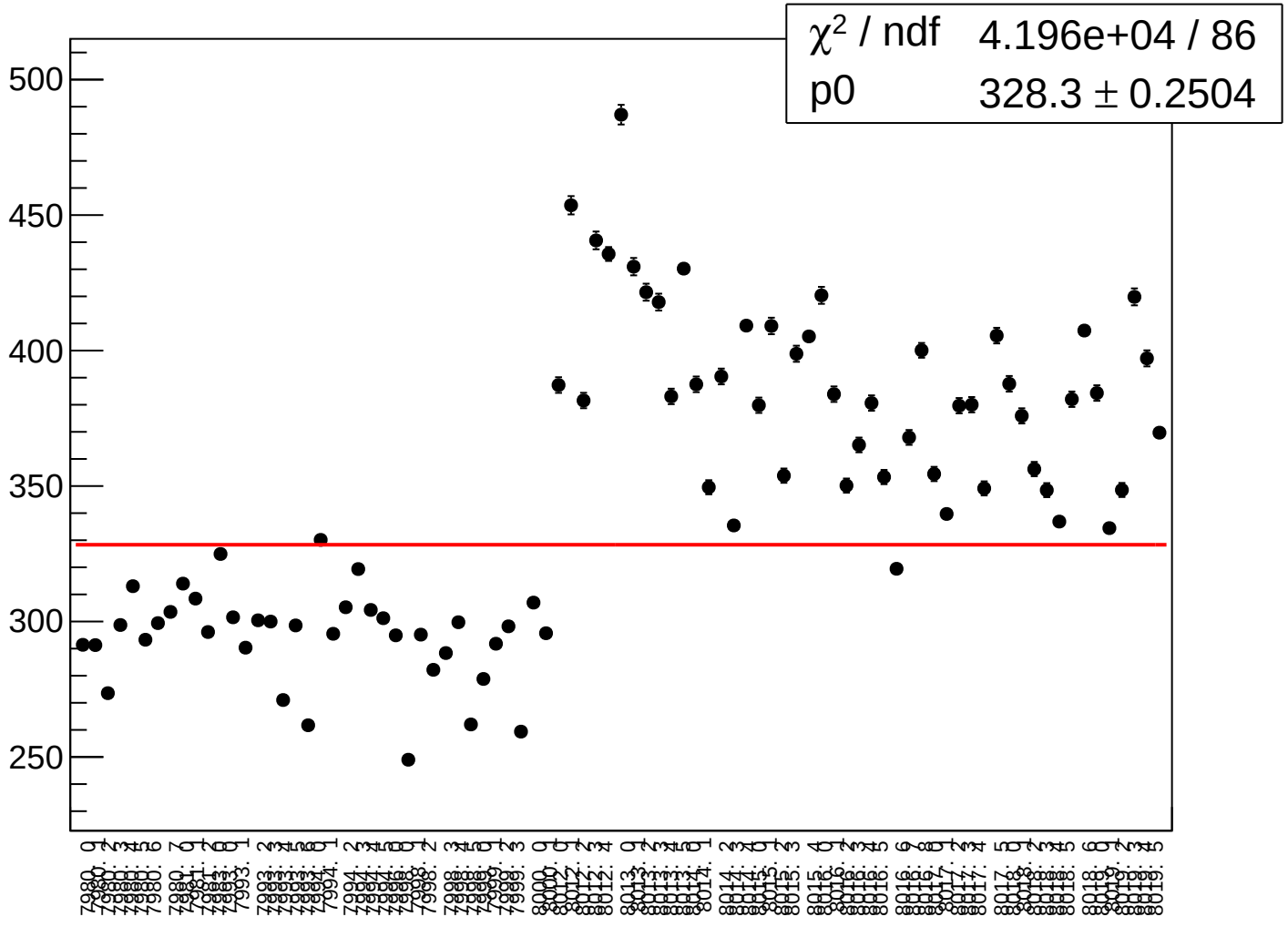

asym_bpm0r03WS_mean vs run
χ² / ndf 1311 / 86
p0 −7951 ± 253
pull
Entries 87
Mean 768.8
Std Dev 0

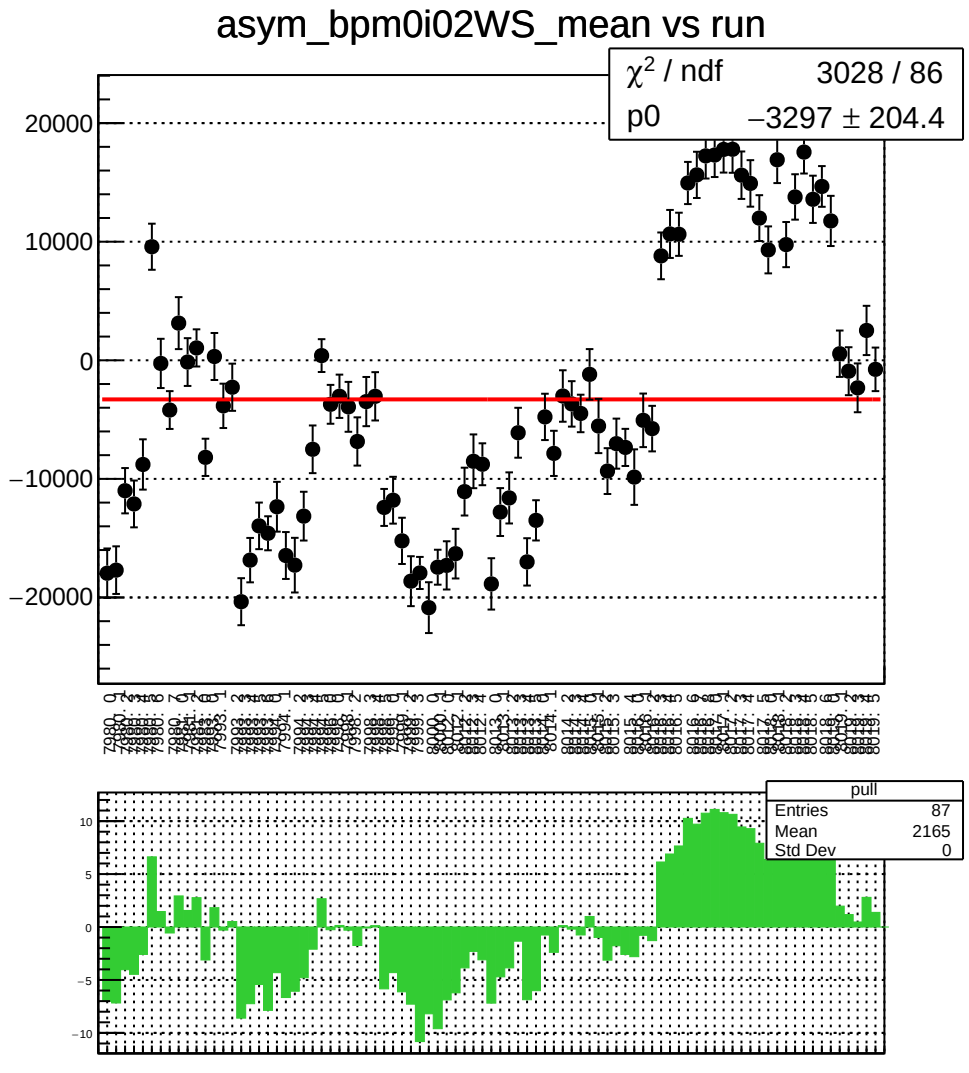

pull1D
Entries 87
Mean 0.1894
Std Dev 3.608

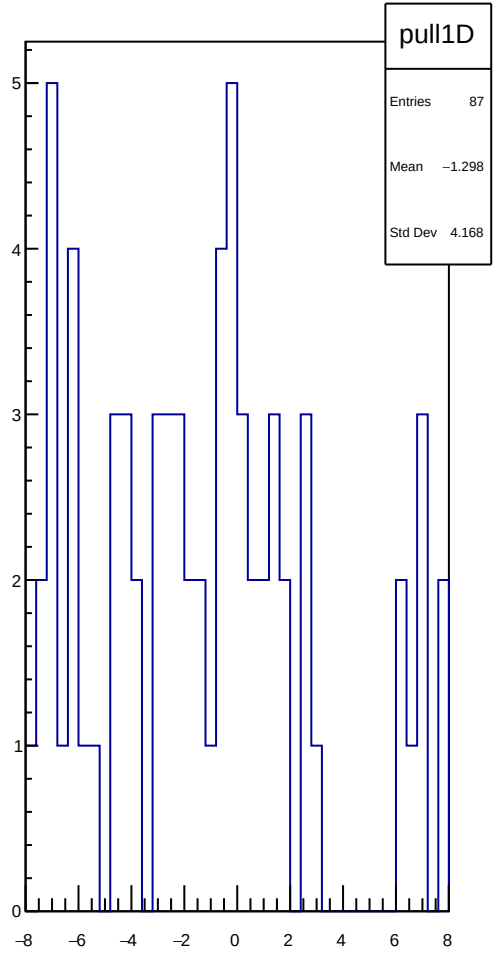

asym_bpm0r03WS_rms vs run
χ² / ndf 8.8e+04 / 86
p0 231.4 ± 0.1789
450
400
350
300
250
200
150

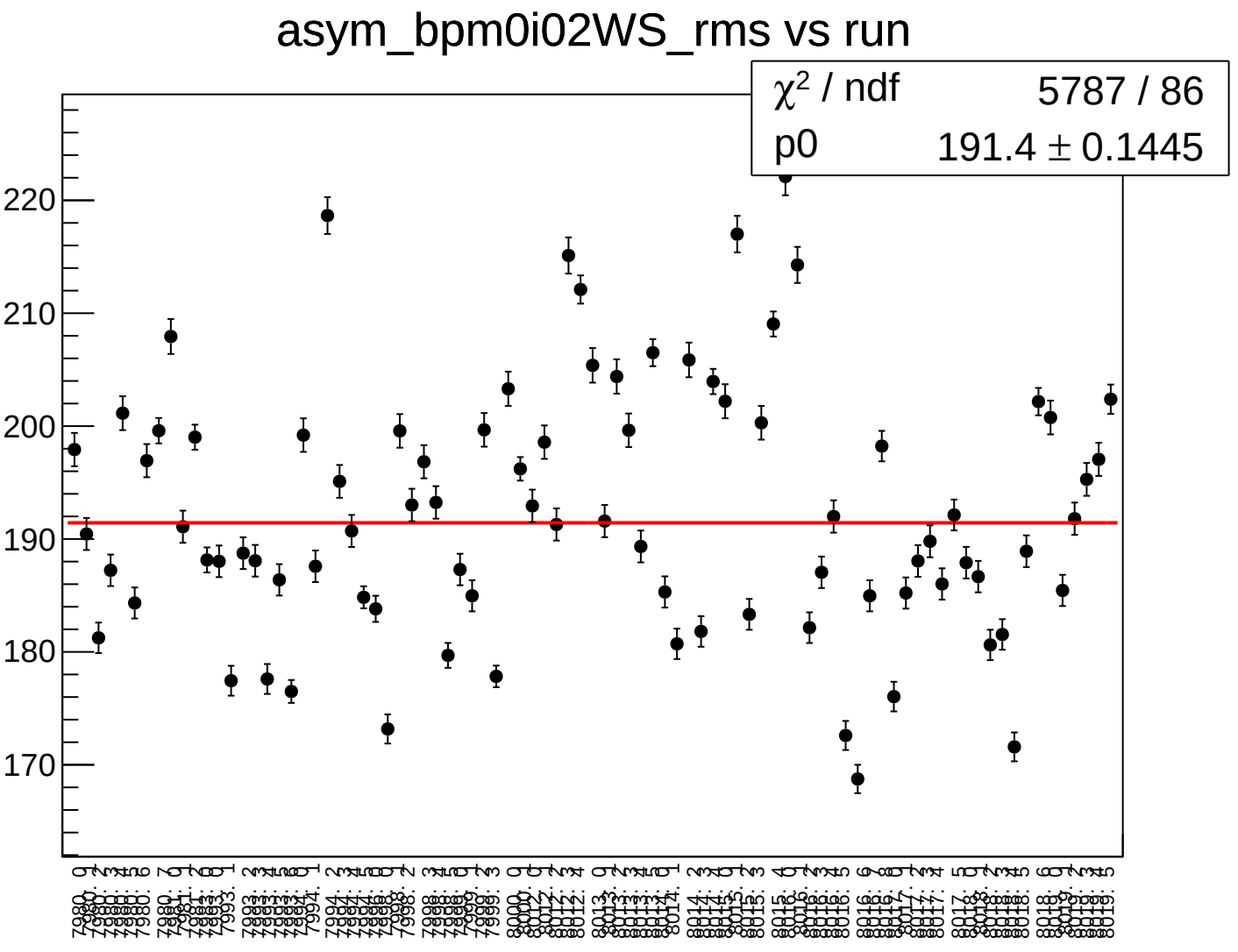

asym_bpm0r05WS_mean vs run
χ² / ndf 721.8 / 86
p0 −9288 ± 354.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 237
Std Dev 0
6
4
2
0
−2
−4
−6

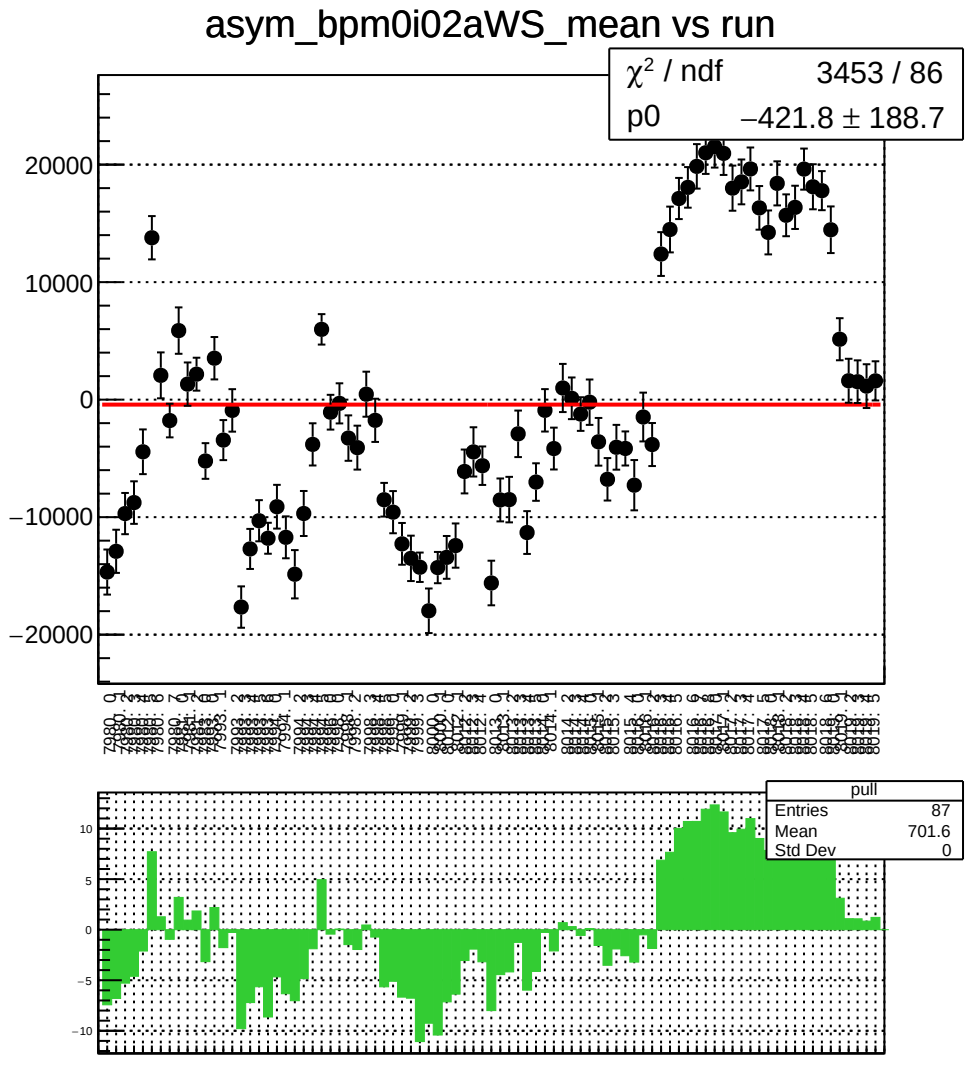

pull1D
Entries 87
Mean 0.1947
Std Dev 2.874
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

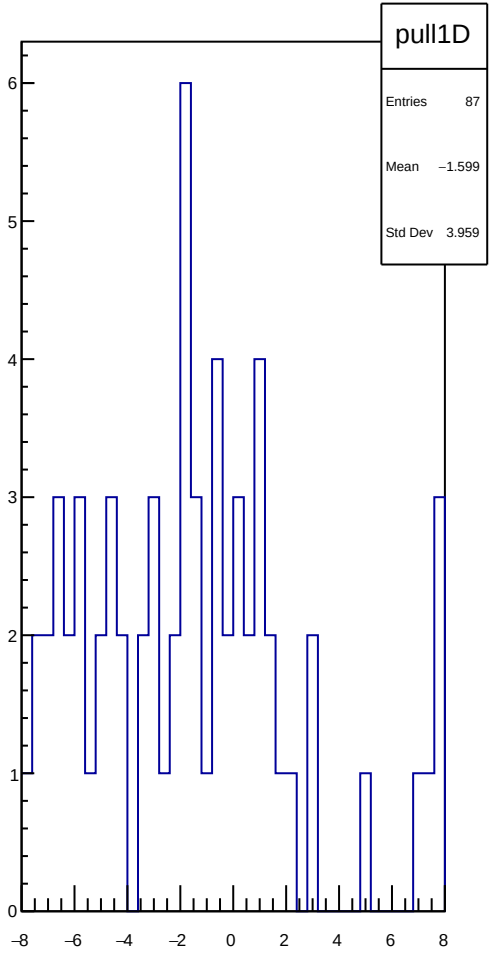

asym_bpm0r05WS_rms vs run
χ² / ndf 4.196e+04 / 86
p0 328.3 ± 0.2504
500
450
400
350
300
250

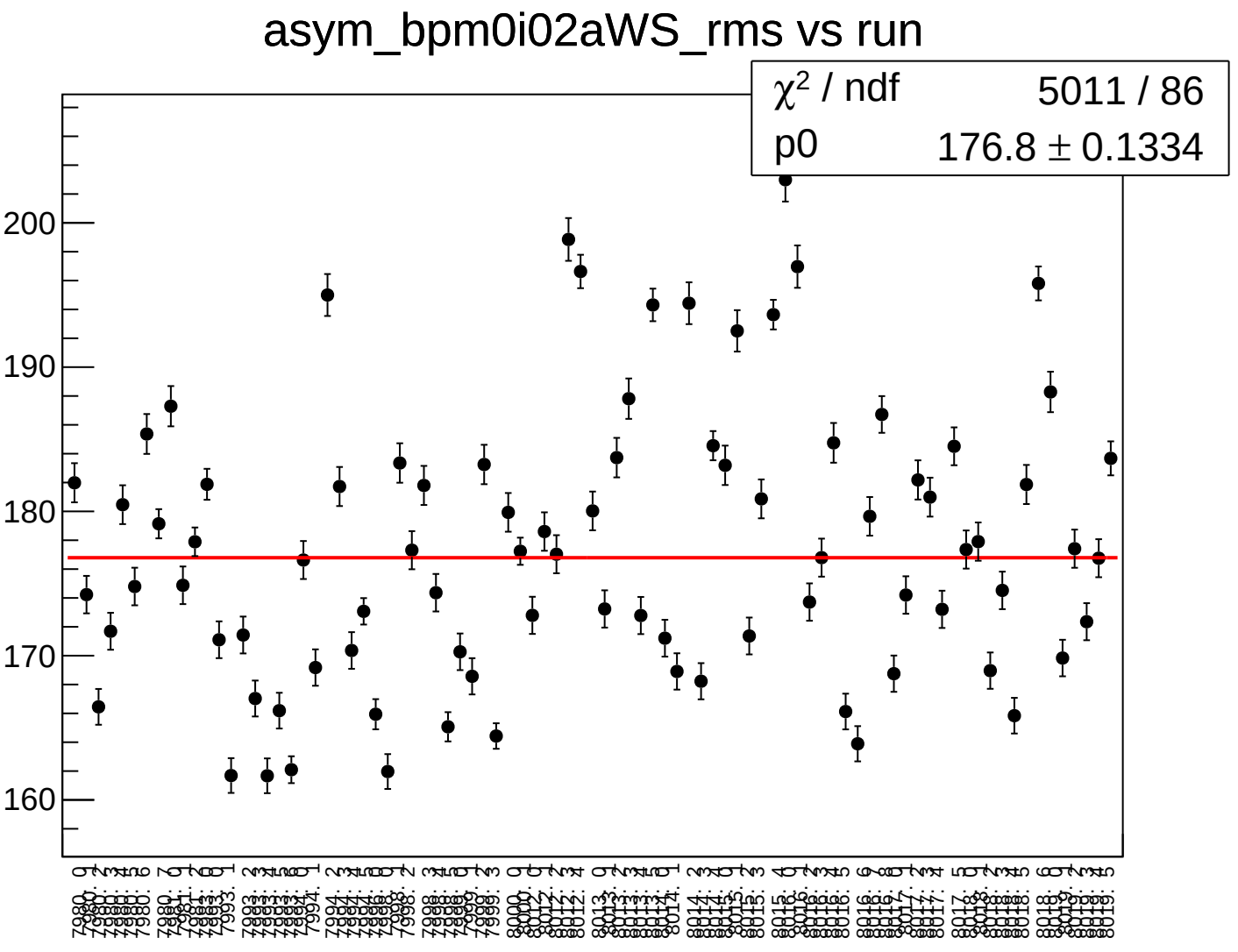

asym_bpm0i02WS_mean vs run
χ² / ndf 3028 / 86
p0 −3297 ± 204.4
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 2165
Std Dev 0
10
5
0
−5
−10

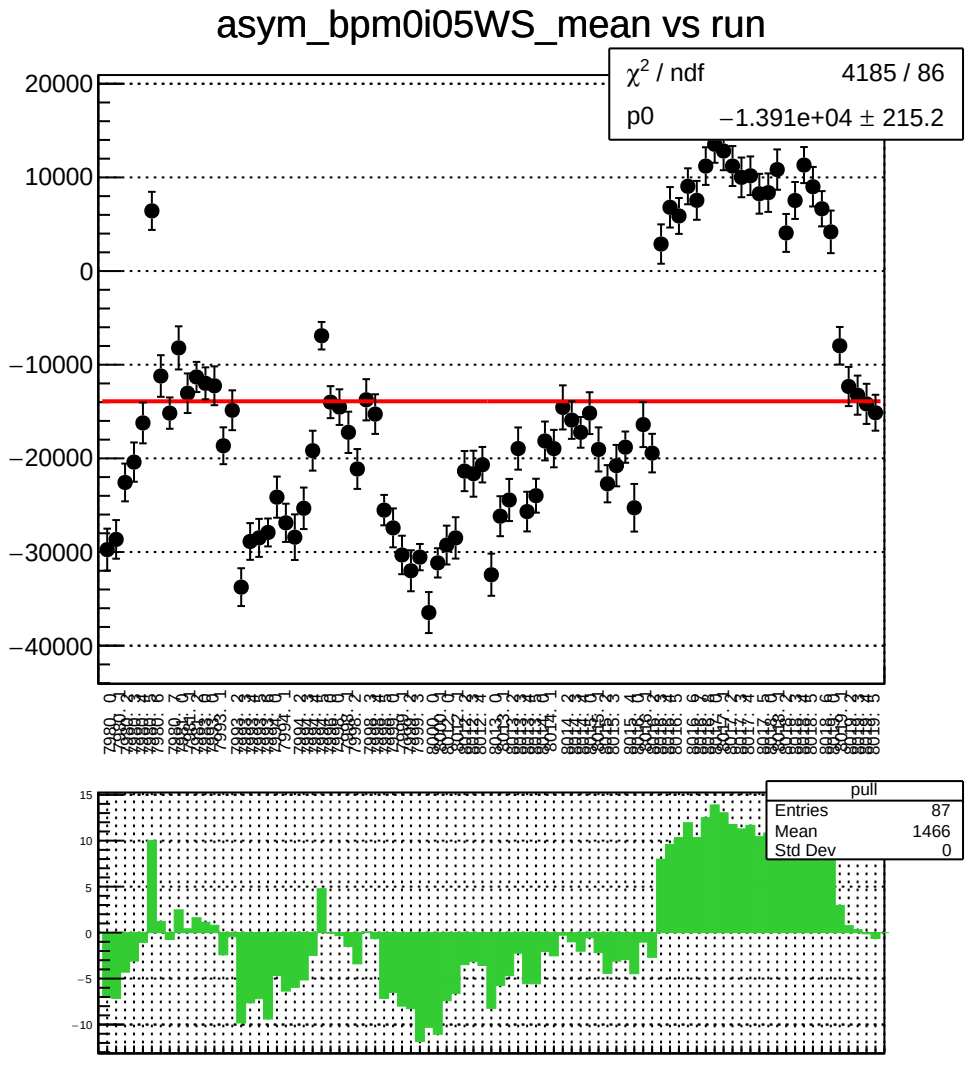

pull1D
Entries 87
Mean −1.298
Std Dev 4.168
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

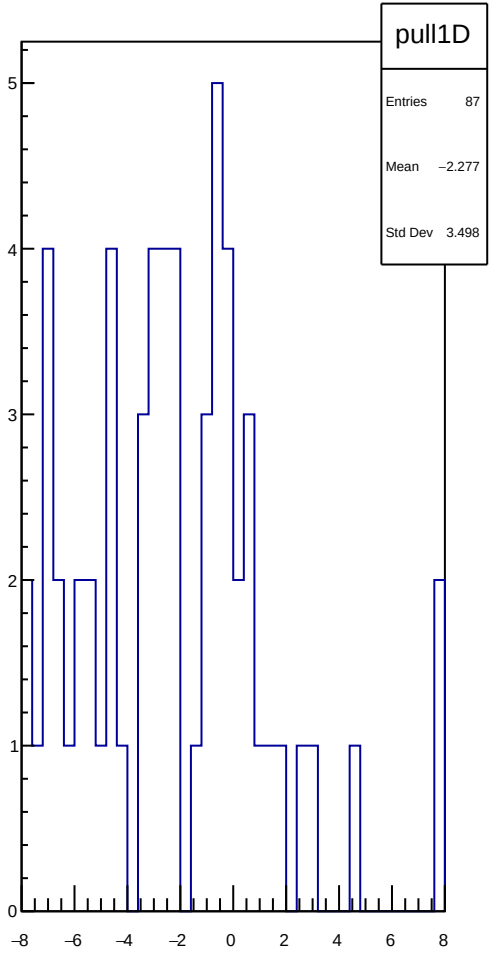

asym_bpm0i02WS_rms vs run
χ² / ndf 5787 / 86
p0 191.4 ± 0.1445
220
210
200
190
180
170

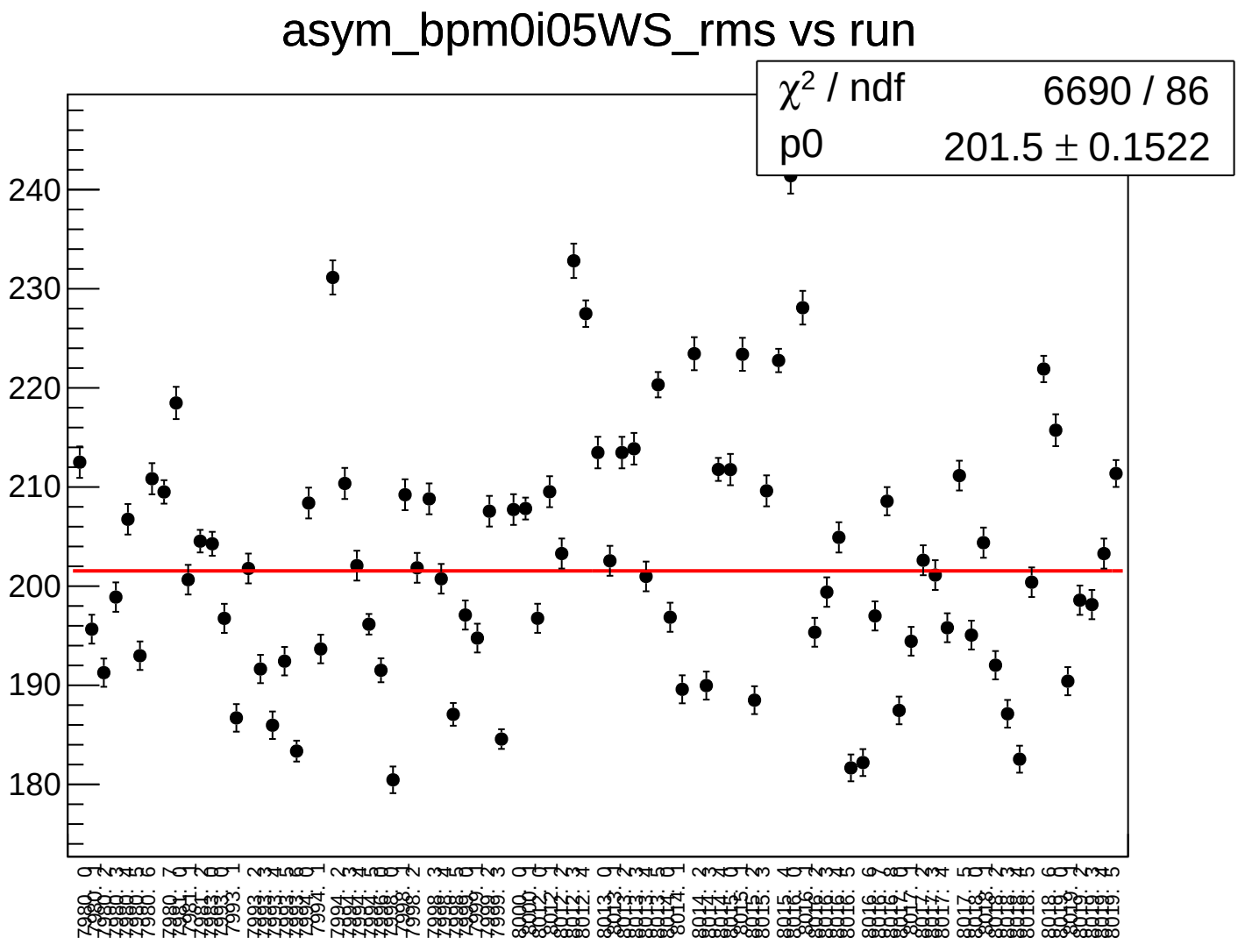

asym_bpm0i02aWS_mean vs run
χ² / ndf 3453 / 86
p0 −421.8 ± 188.7
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 701.6
Std Dev 0
10
5
0
−5
−10

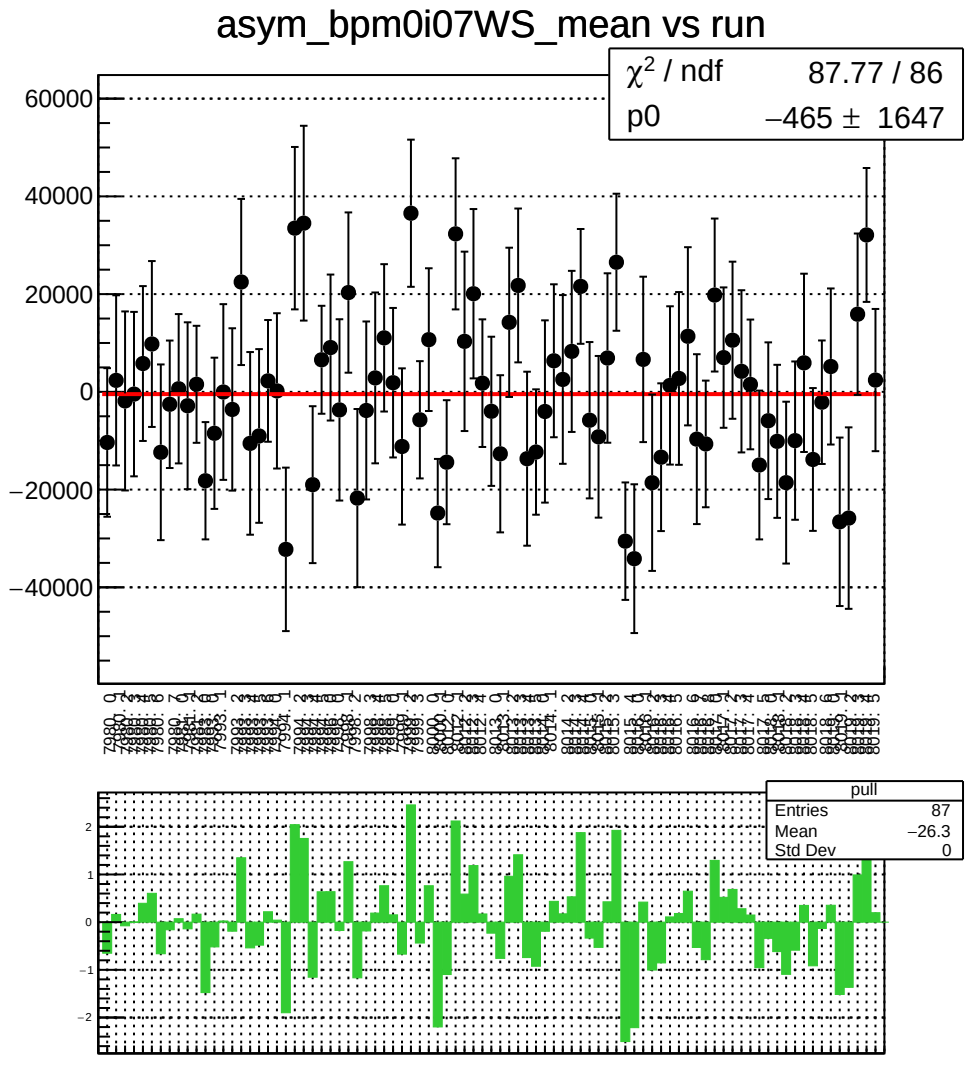

pull1D
Entries 87
Mean −1.599
Std Dev 3.959
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

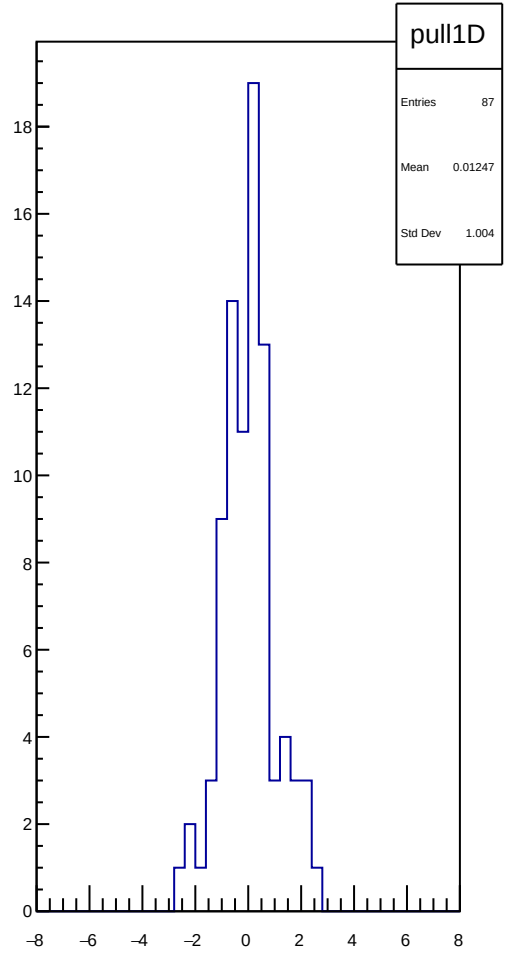

asym_bpm0i02aWS_rms vs run
χ² / ndf 5011 / 86
p0 176.8 ± 0.1334
200
190
180
170
160

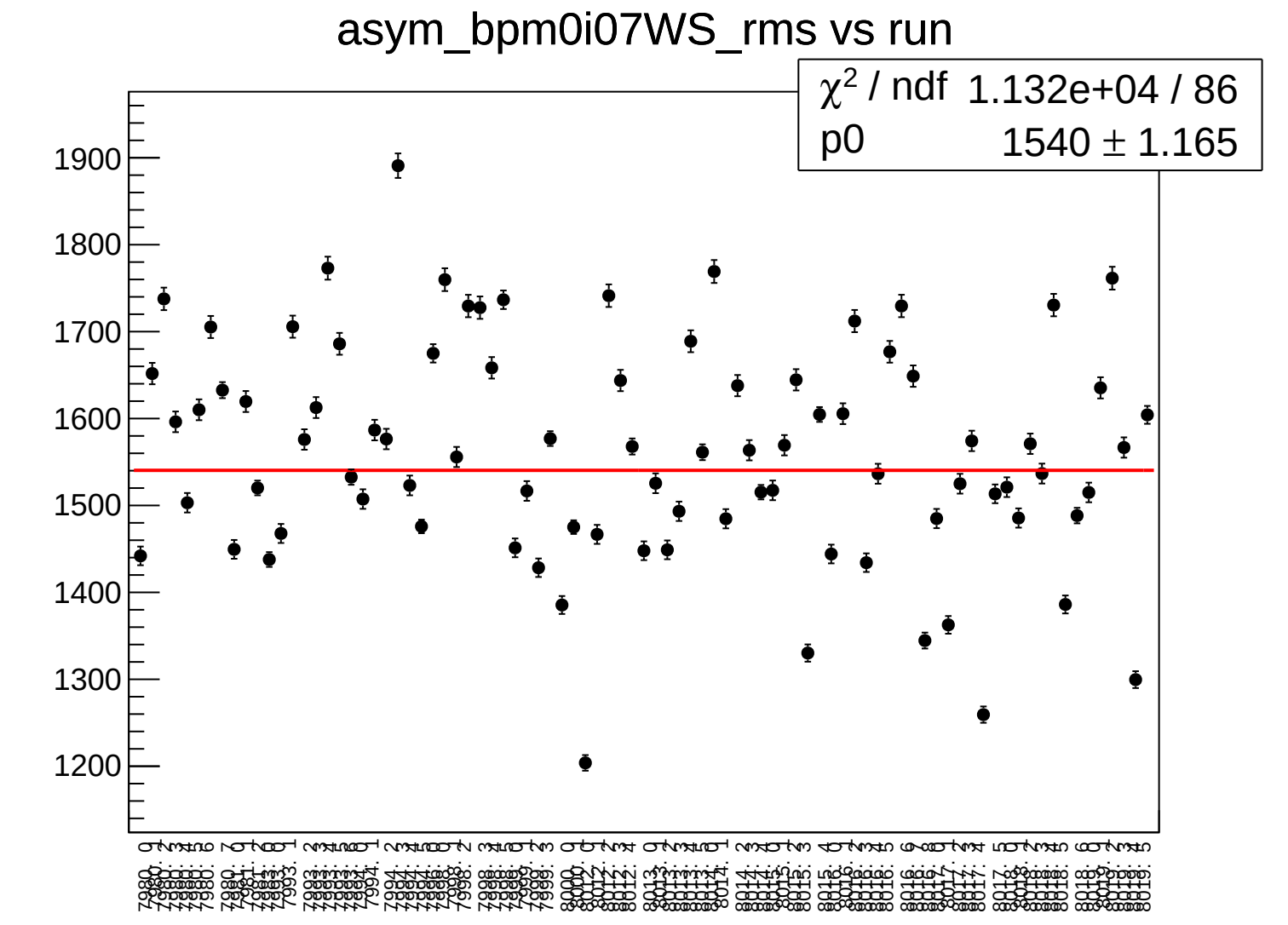

asym_bpm0i05WS_mean vs run
χ² / ndf 4185 / 86
p0 −1.391e+04 ± 215.2
pull
Entries 87
Mean 1466
Std Dev 0

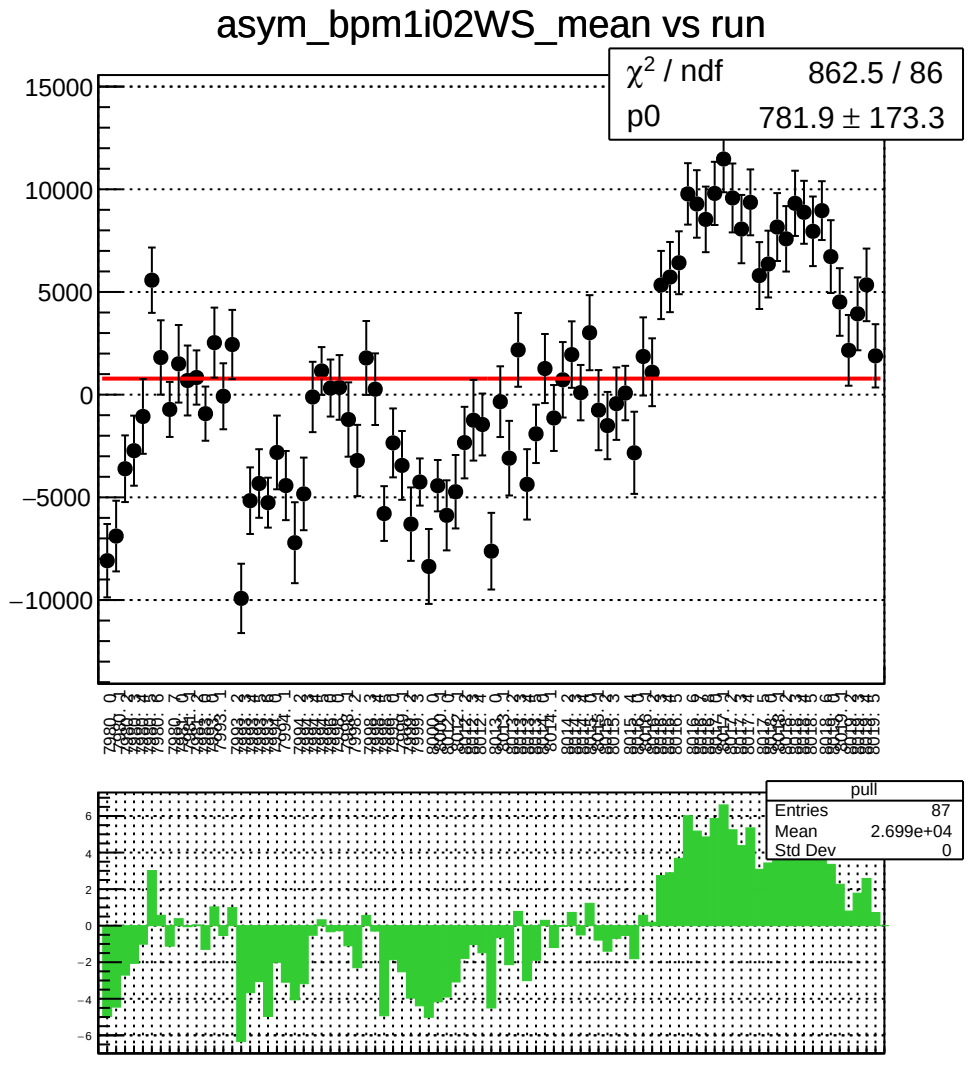

pull1D
Entries 87
Mean −2.277
Std Dev 3.498

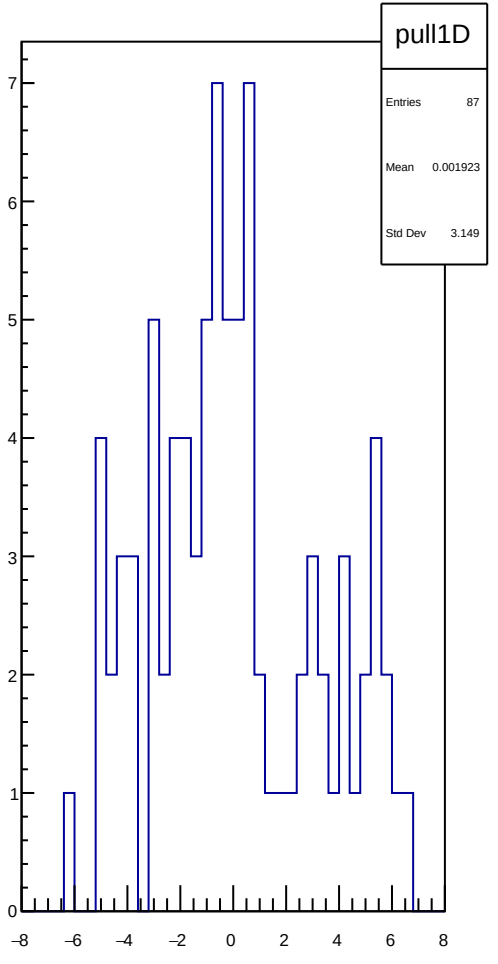

asym_bpm0i05WS_rms vs run
χ² / ndf 6690 / 86
p0 201.5 ± 0.1522
240
230
220
210
200
190
180

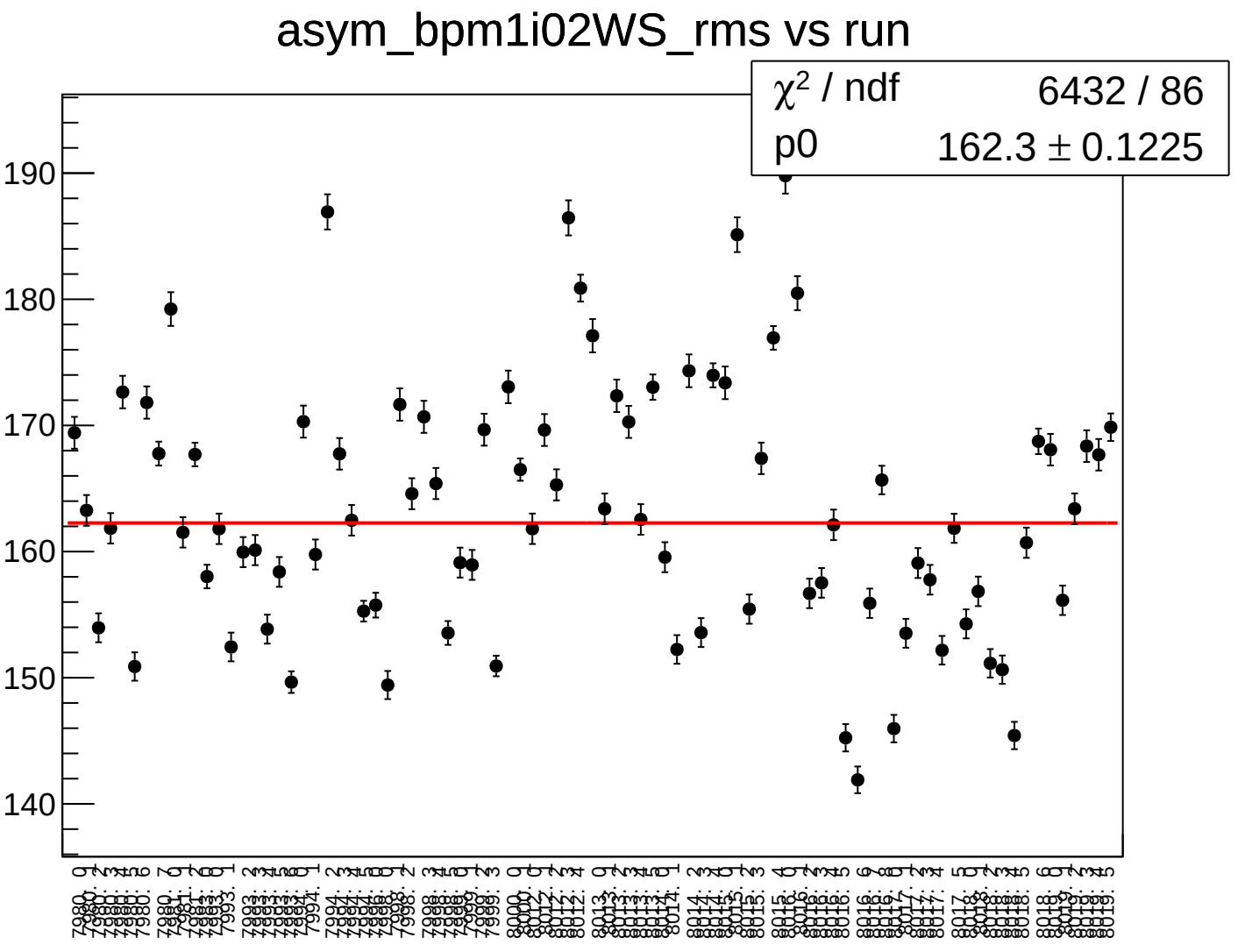

asym_bpm0i07WS_mean vs run
χ² / ndf 87.77 / 86
p0 −465 ± 1647
pull
Entries 87
Mean −26.3
Std Dev 0

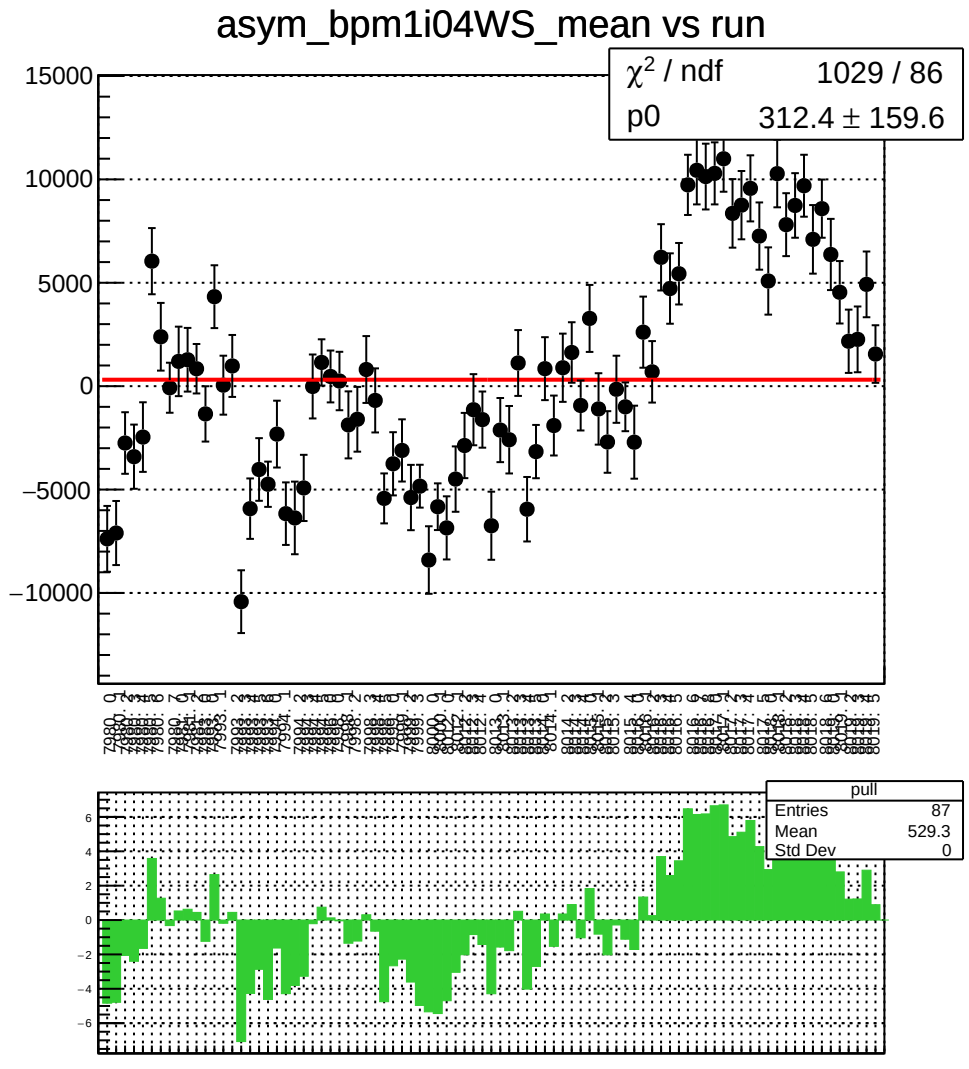

pull1D
Entries 87
Mean 0.01247
Std Dev 1.004

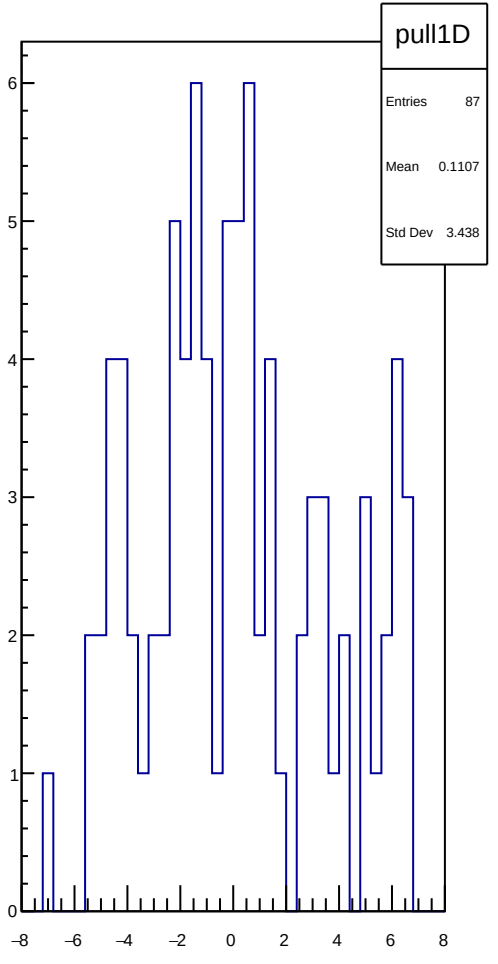

asym_bpm0i07WS_rms vs run
χ² / ndf 1.132e+04 / 86
p0 1540 ± 1.165
1900
1800
1700
1600
1500
1400
1300
1200

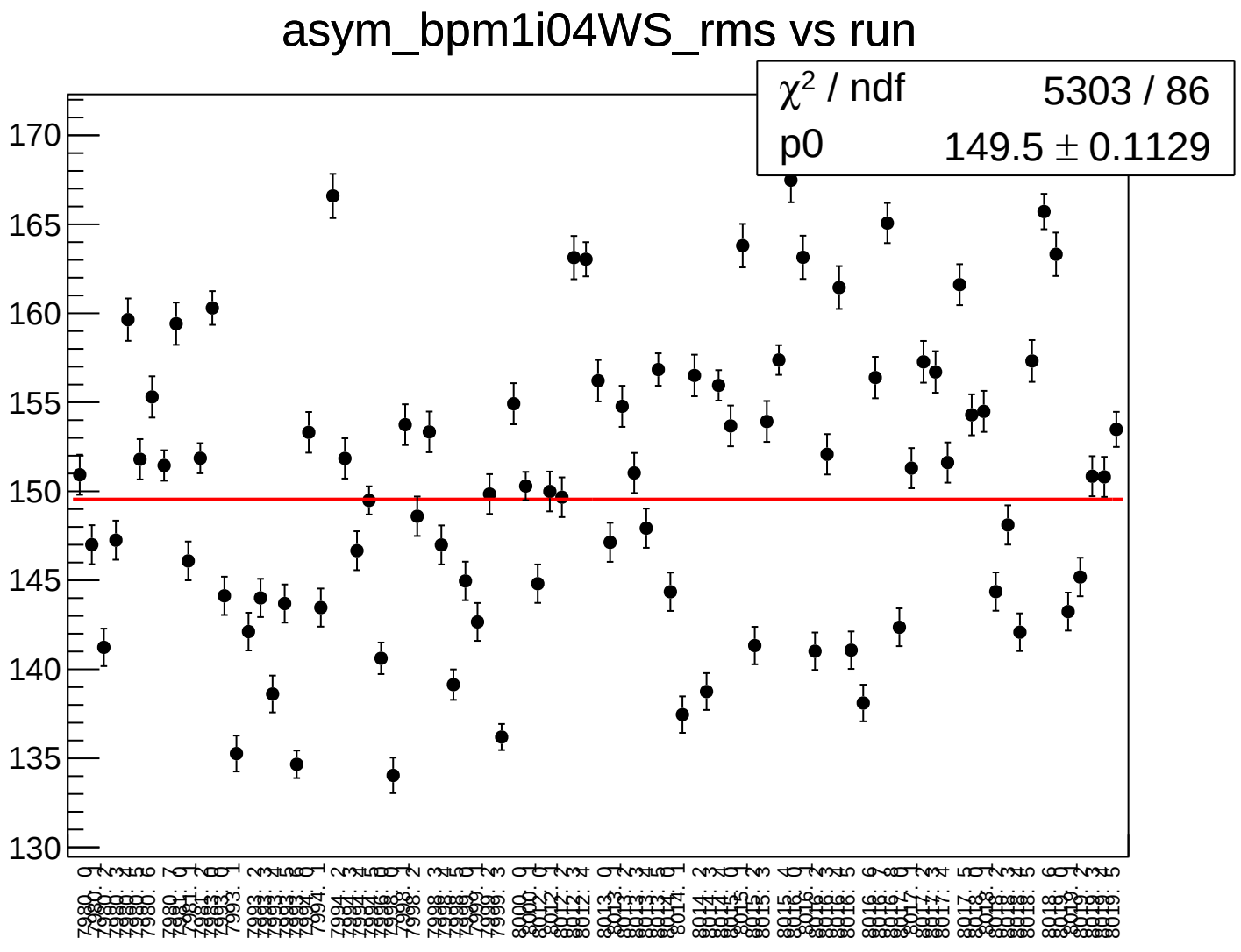

asym_bpm1i02WS_mean vs run
χ² / ndf 862.5 / 86
p0 781.9 ± 173.3
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 2.699e+04
Std Dev 0
6
4
2
0
−2
−4
−6

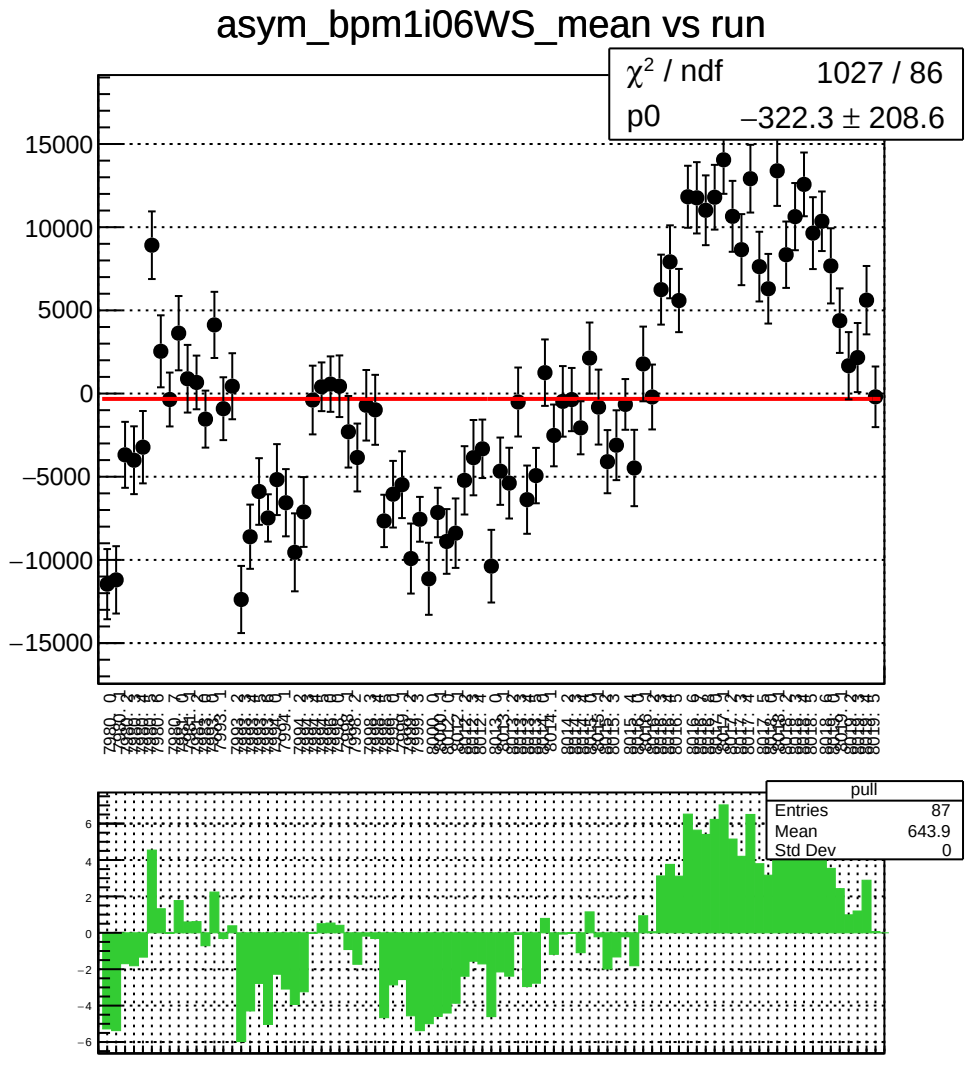

pull1D
Entries 87
Mean 0.001923
Std Dev 3.149
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

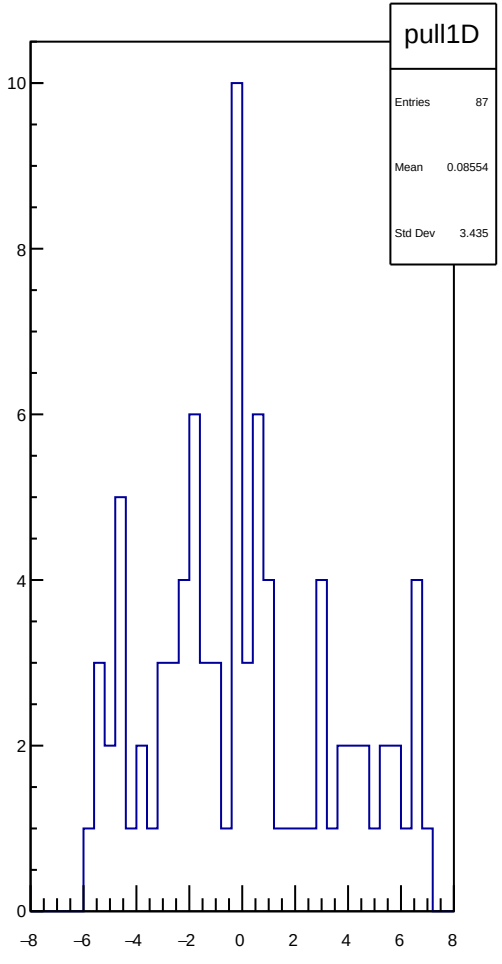

asym_bpm1i02WS_rms vs run
χ² / ndf 6432 / 86
p0 162.3 ± 0.1225
190
180
170
160
150
140

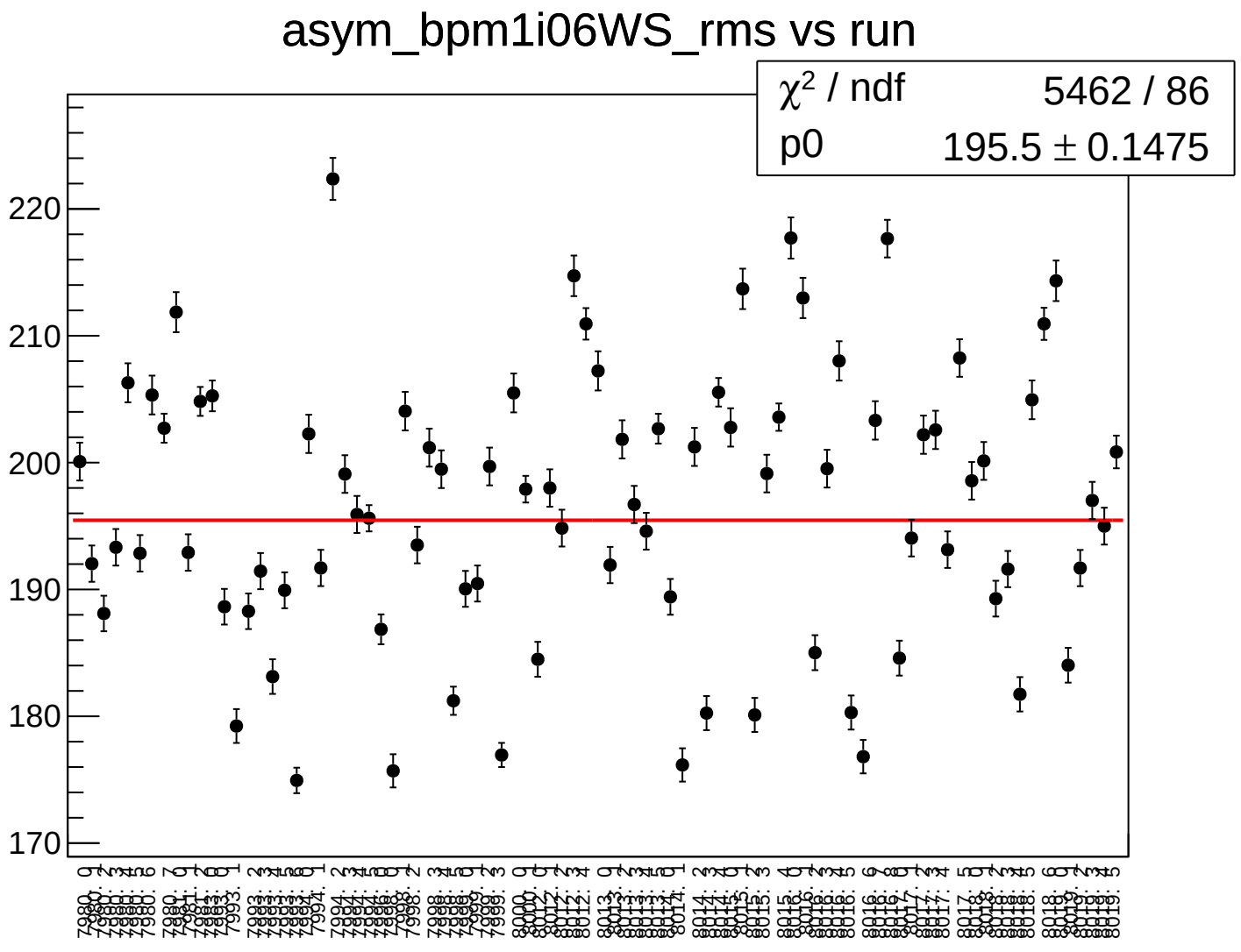

asym_bpm1i04WS_mean vs run
χ² / ndf 1029 / 86
p0 312.4 ± 159.6
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 529.3
Std Dev 0
6
4
2
0
−2
−4
−6

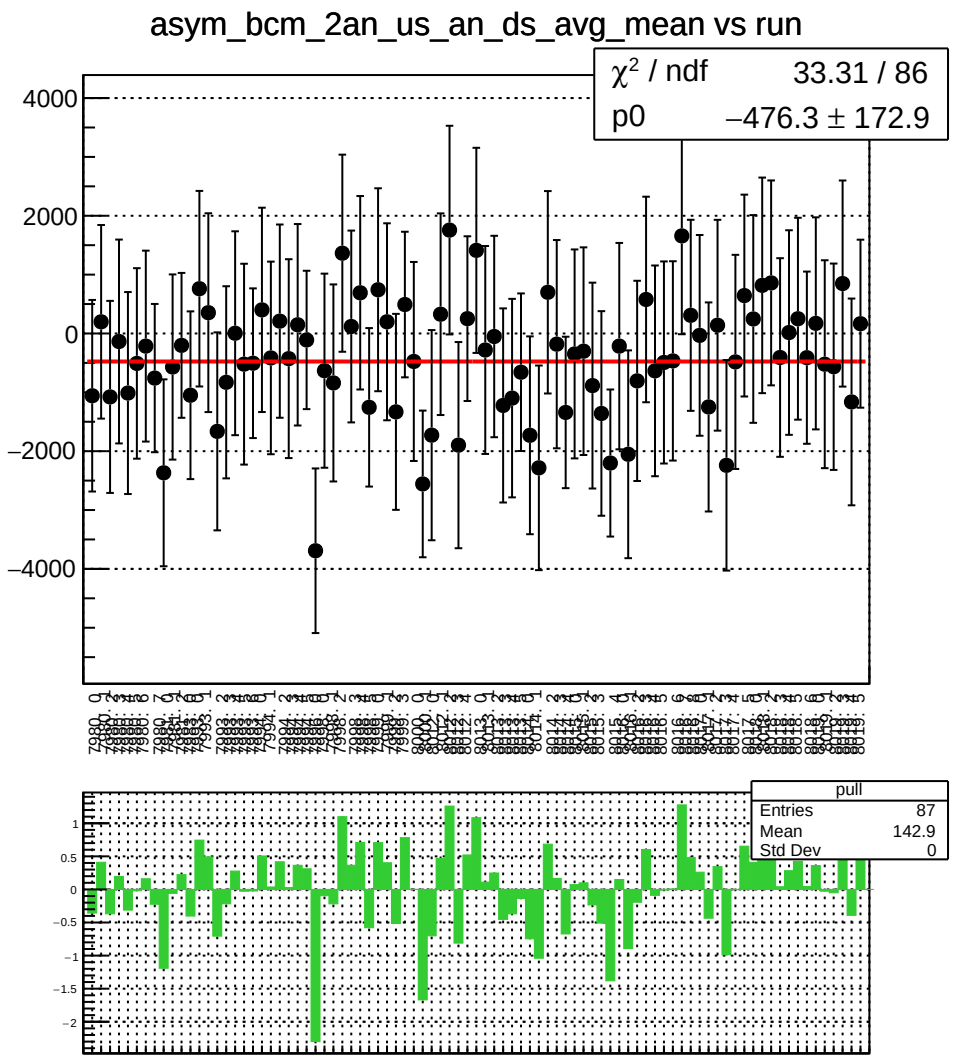

pull1D
Entries 87
Mean 0.1107
Std Dev 3.438
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

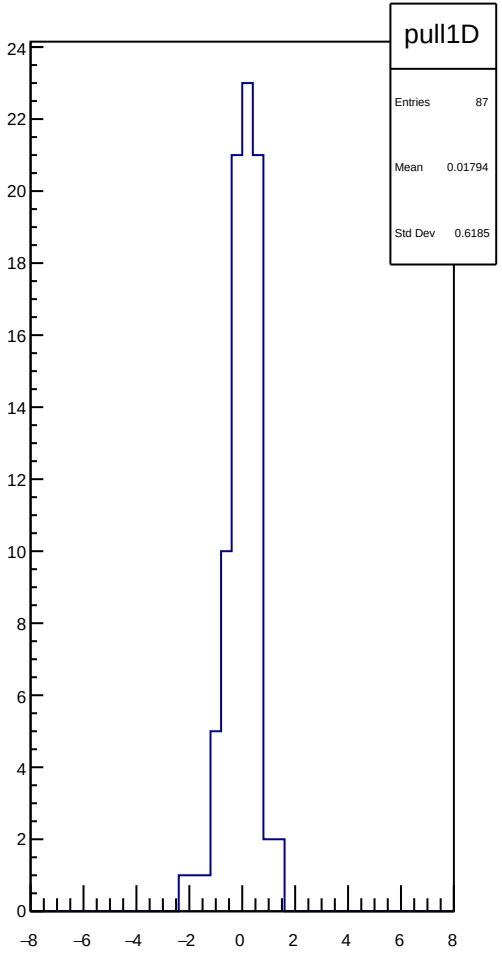

asym_bpm1i04WS_rms vs run
χ² / ndf 5303 / 86
p0 149.5 ± 0.1129
170
165
160
155
150
145
140
135
130

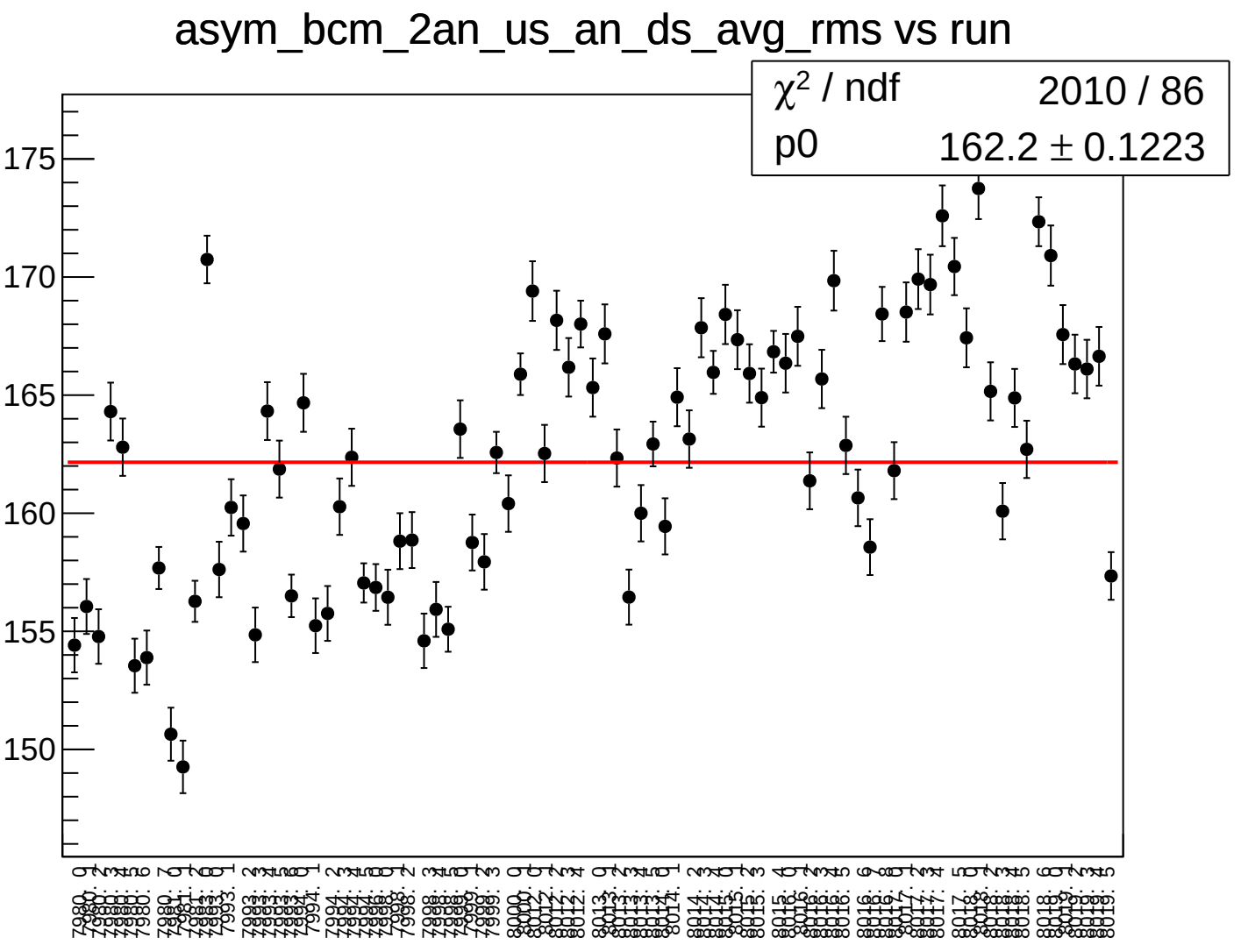

asym_bpm1i06WS_mean vs run
χ² / ndf 1027 / 86
p0 −322.3 ± 208.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 643.9
Std Dev 0
6
4
2
0
−2
−4
−6

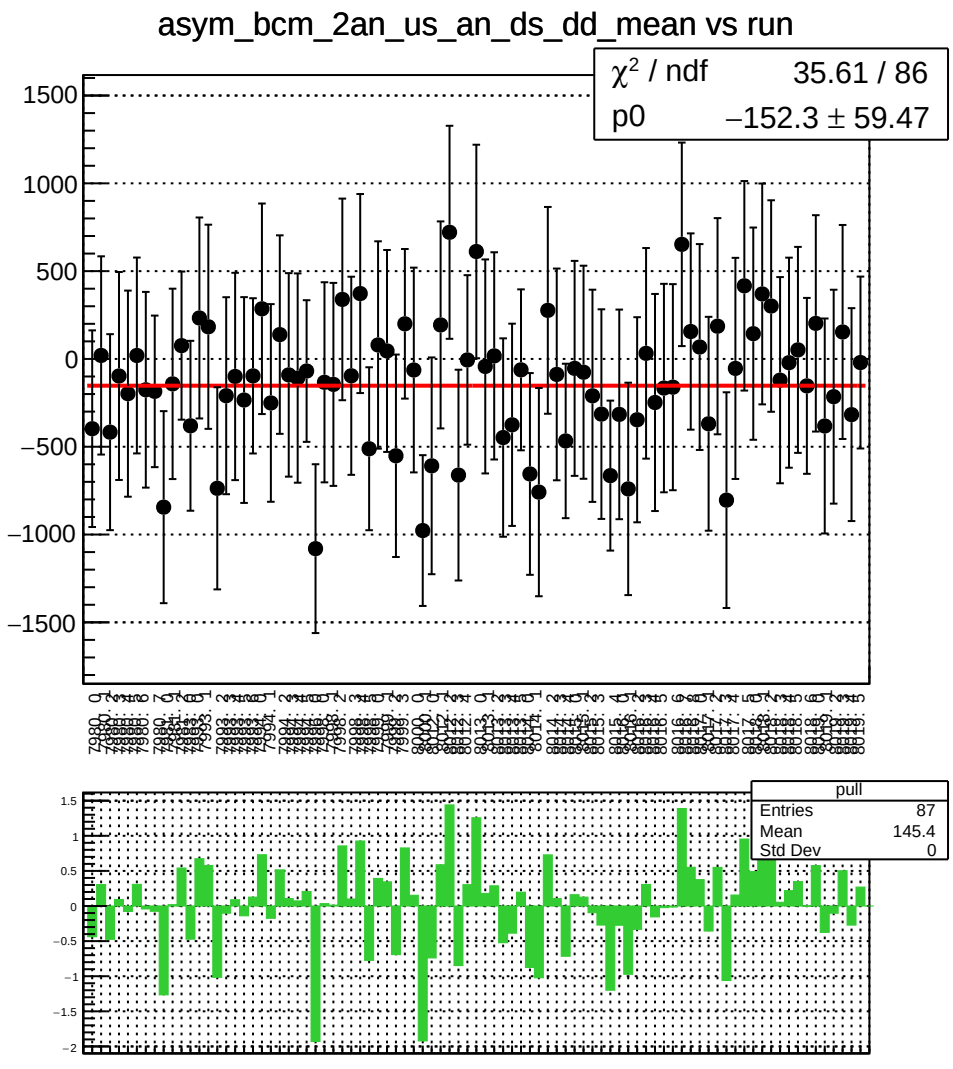

pull1D
Entries 87
Mean 0.08554
Std Dev 3.435
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

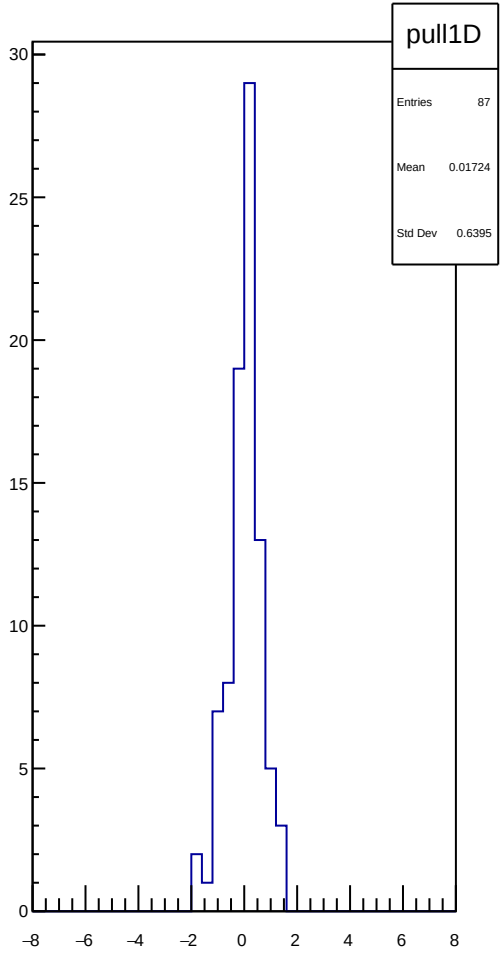

asym_bpm1i06WS_rms vs run
χ² / ndf 5462 / 86
p0 195.5 ± 0.1475
220
210
200
190
180
170

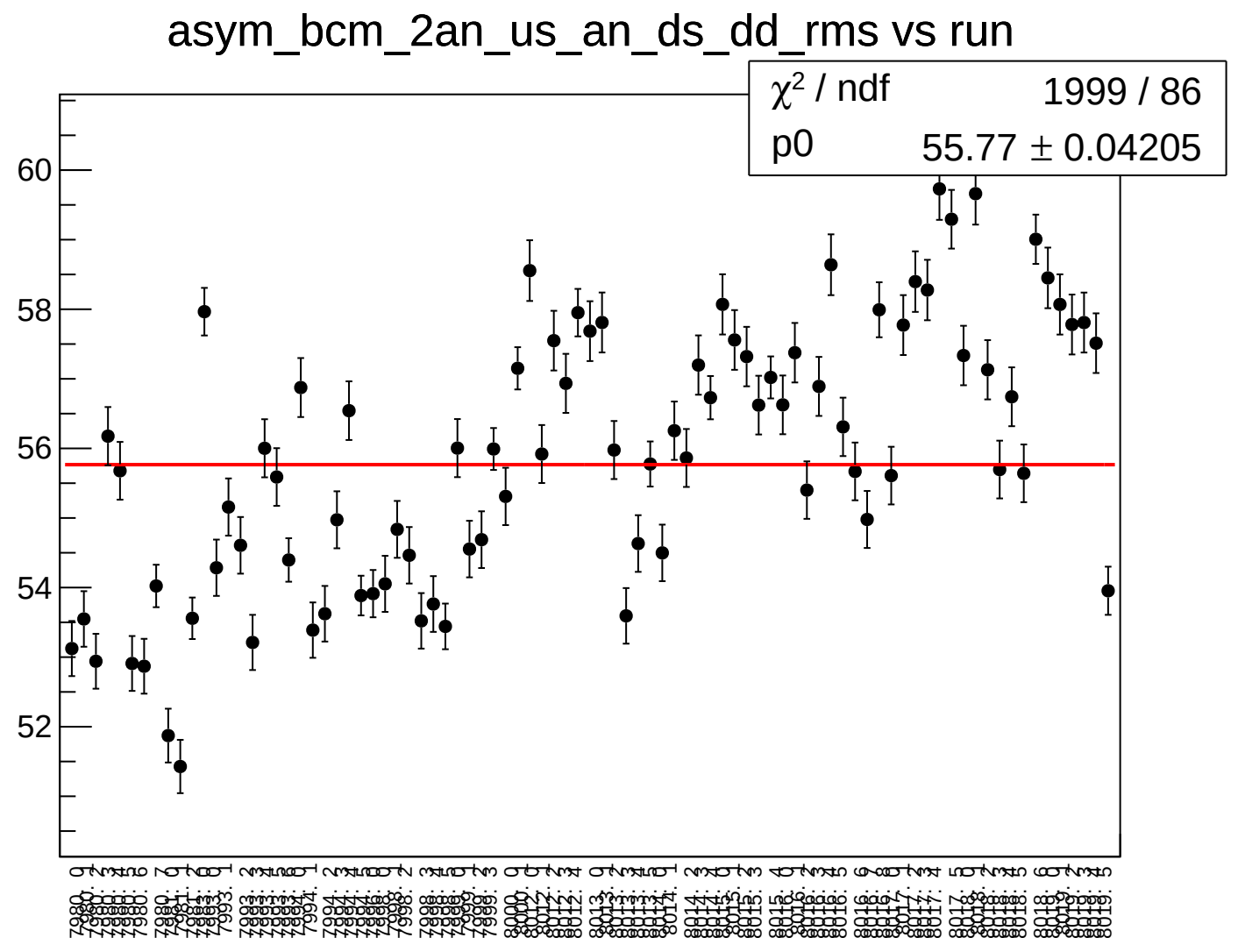

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 33.31 / 86
p0 −476.3 ± 172.9
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 142.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

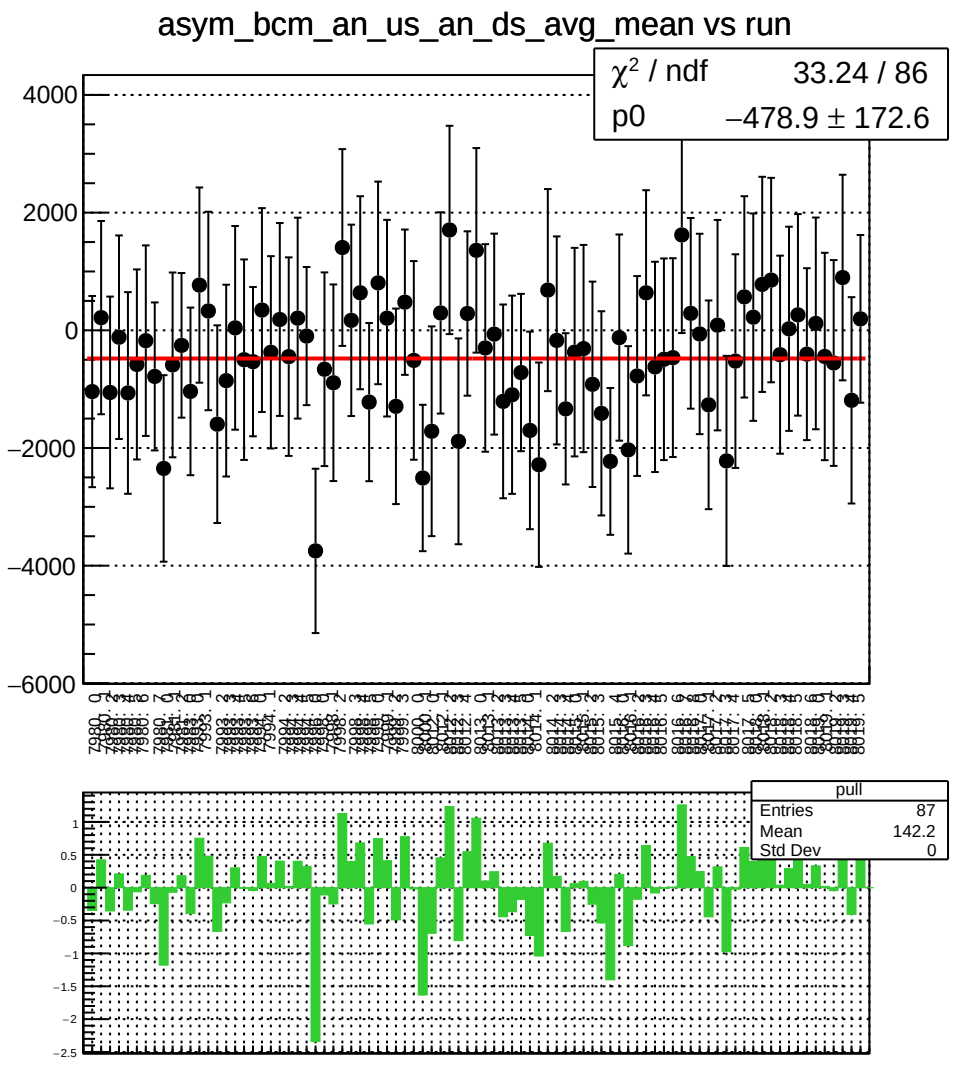

pull1D
Entries 87
Mean 0.01794
Std Dev 0.6185
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

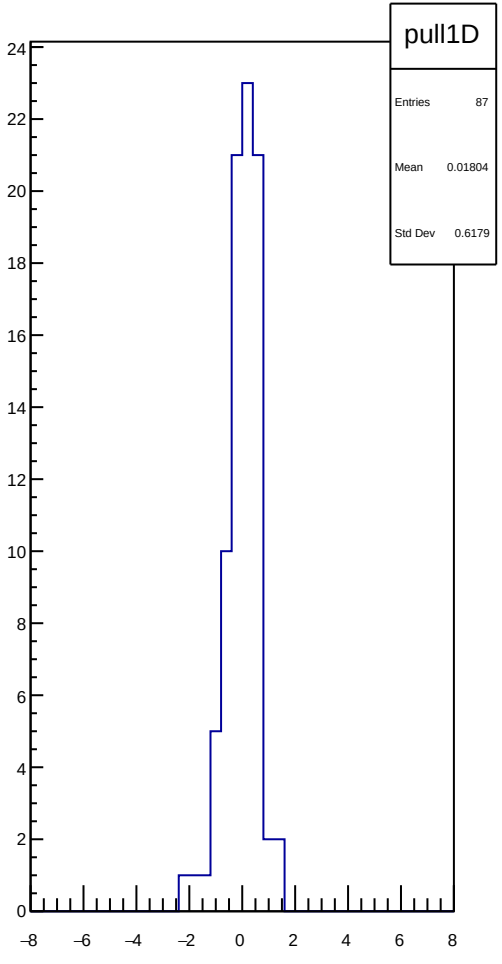

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 2010 / 86
p0 162.2 ± 0.1223
175
170
165
160
155
150

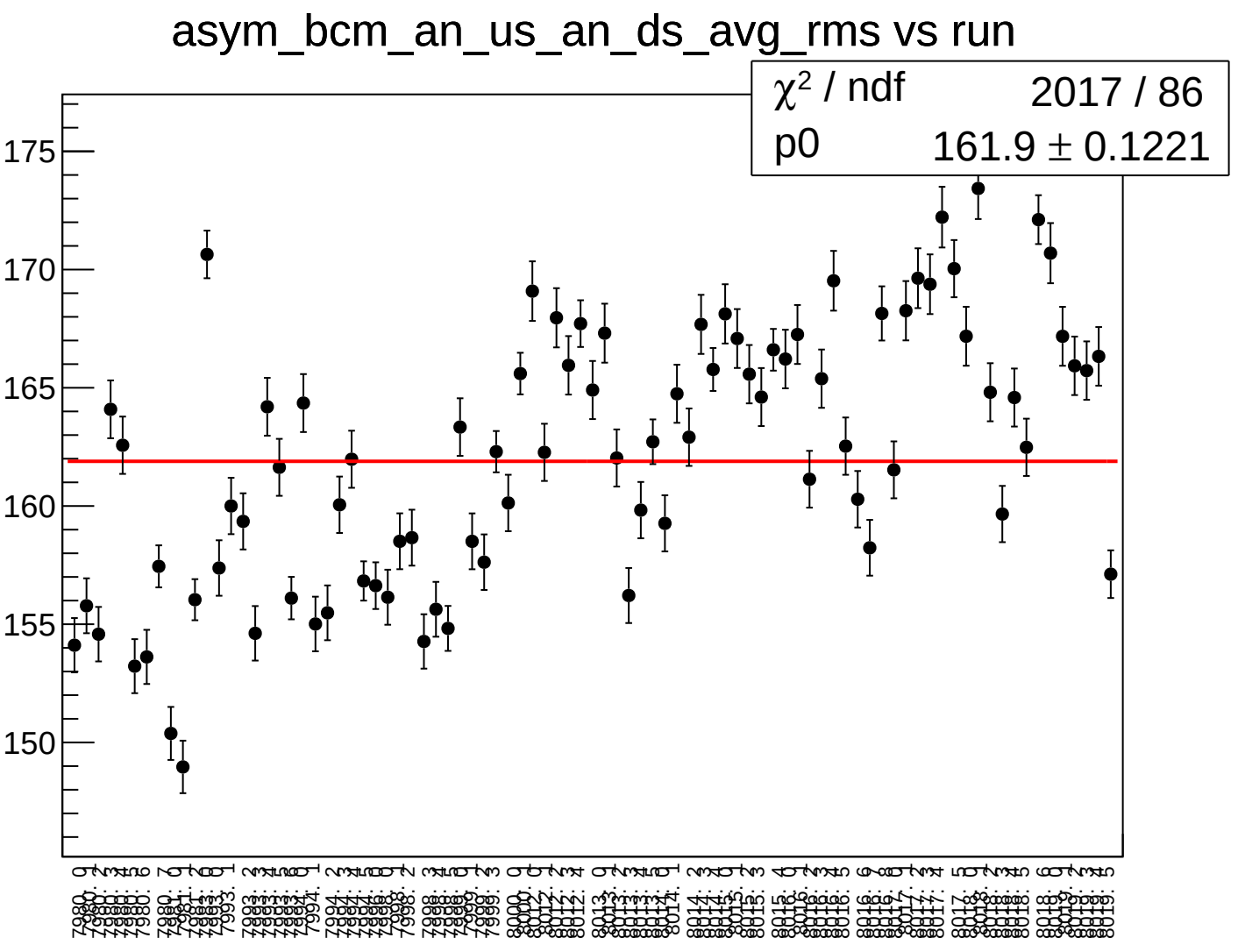

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 35.61 / 86
p0 −152.3 ± 59.47
pull
Entries 87
Mean 145.4
Std Dev 0

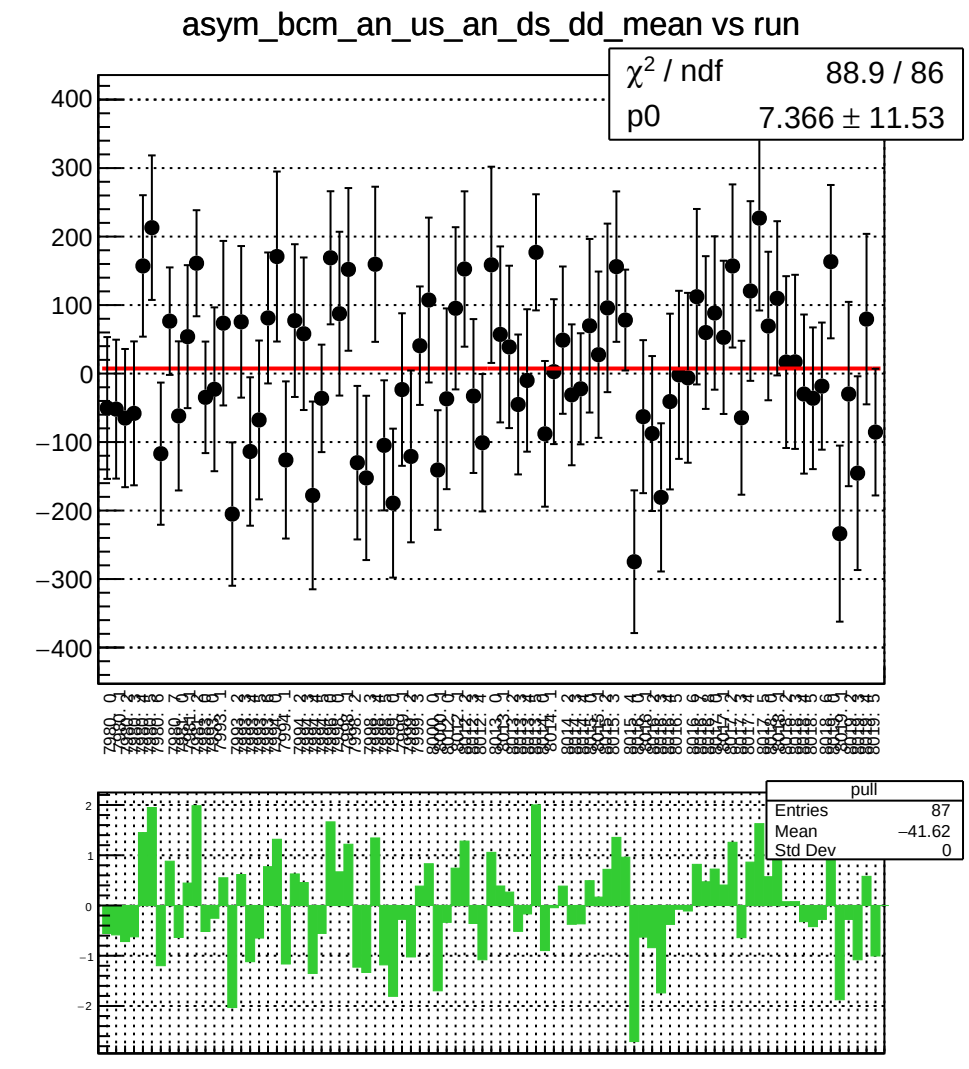

pull1D
Entries 87
Mean 0.01724
Std Dev 0.6395

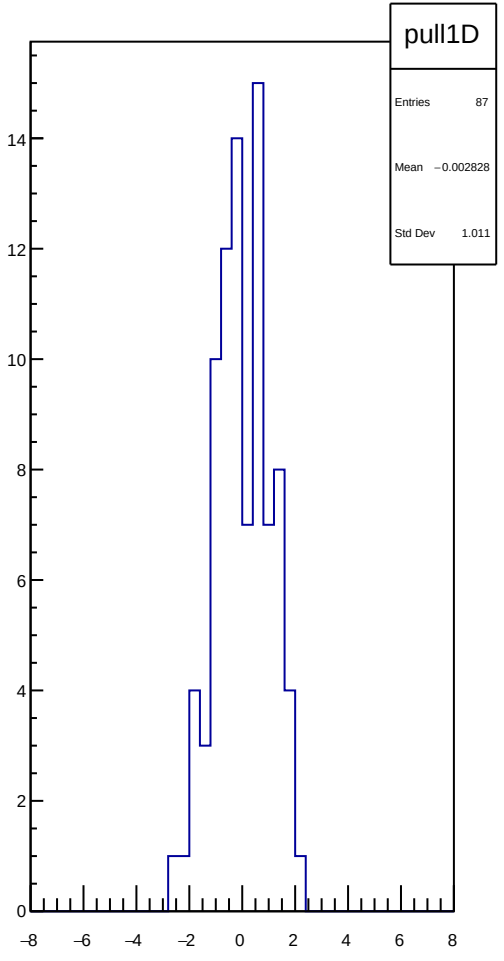

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1999 / 86
p0 55.77 ± 0.04205
60
58
56
54
52

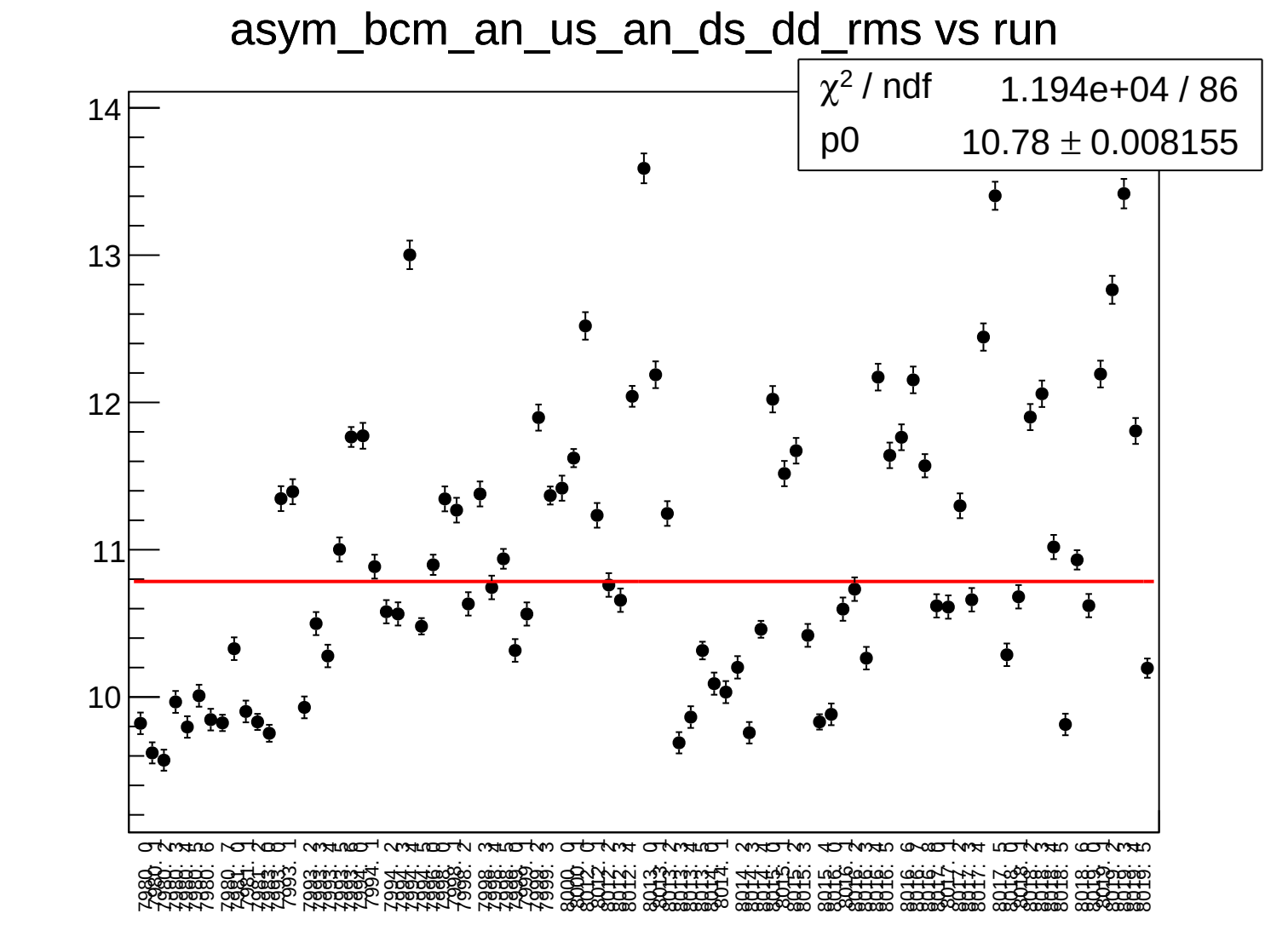

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 33.24 / 86
p0 −478.9 ± 172.6
pull
Entries 87
Mean 142.2
Std Dev 0

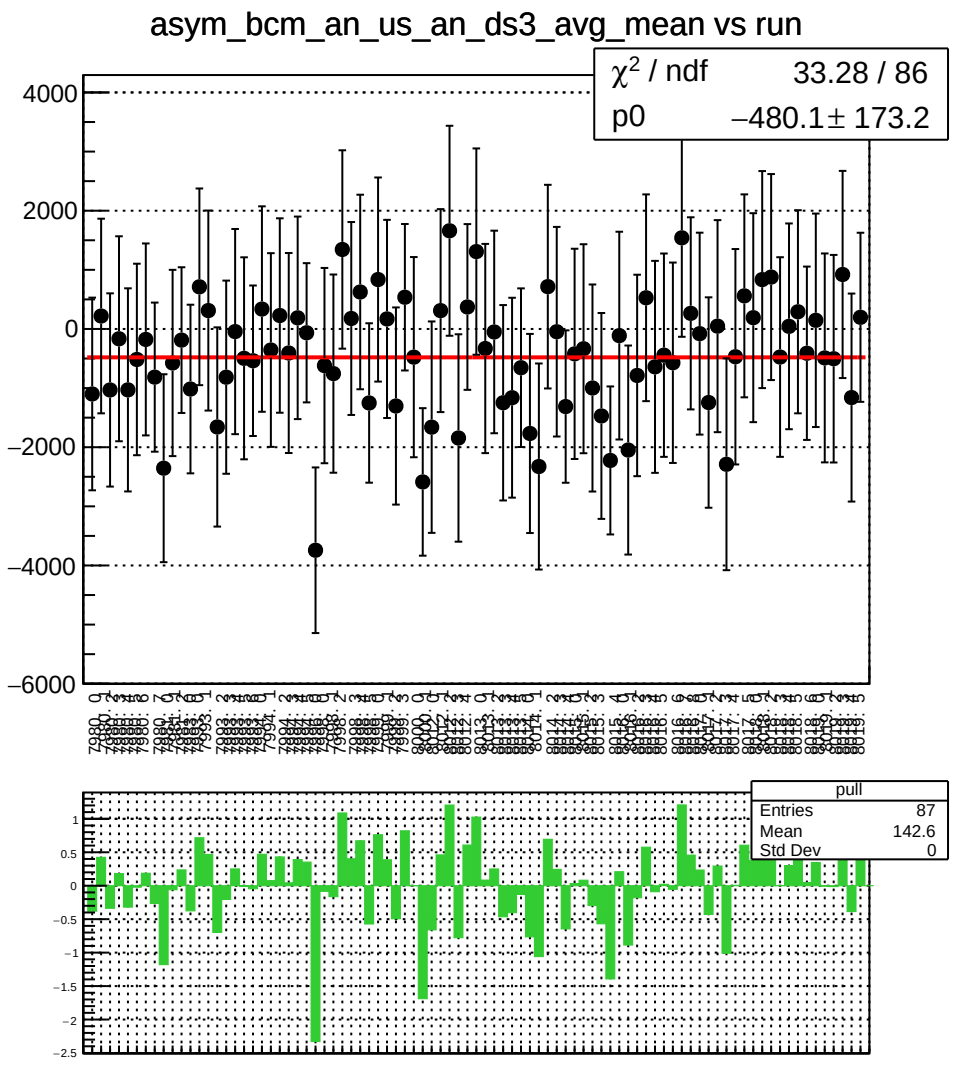

pull1D
Entries 87
Mean 0.01804
Std Dev 0.6179

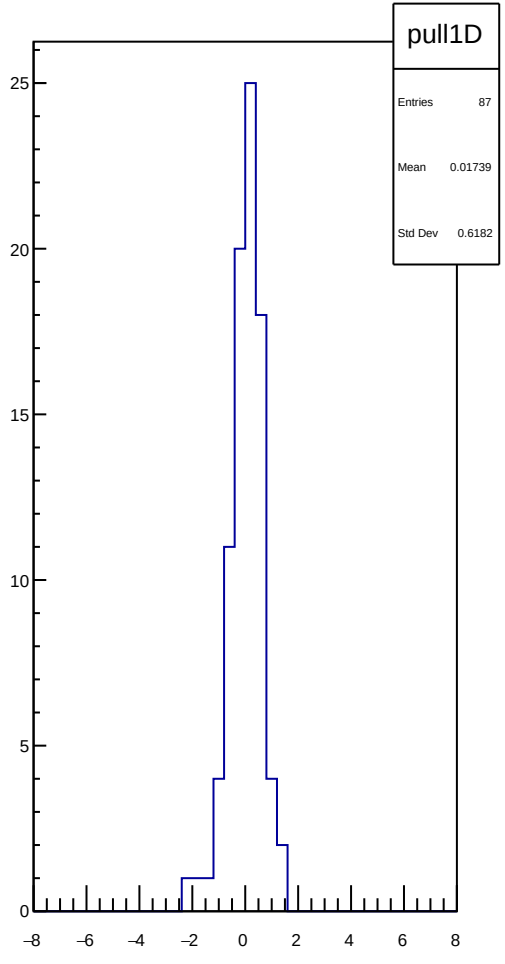

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 2017 / 86
p0 161.9 ± 0.1221
175
170
165
160
155
150

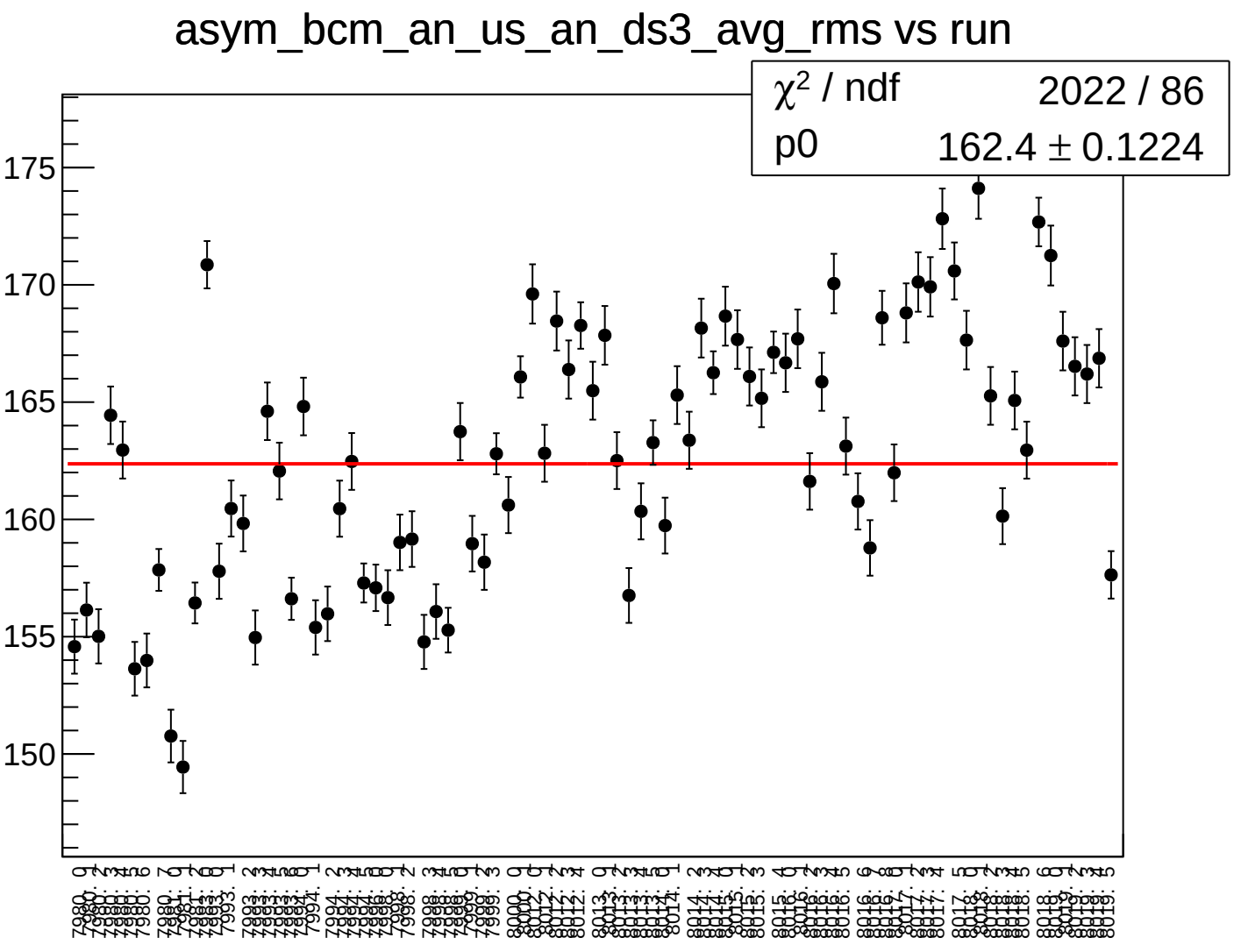

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 88.9 / 86
p0 7.366 ± 11.53
pull
Entries 87
Mean −41.62
Std Dev 0

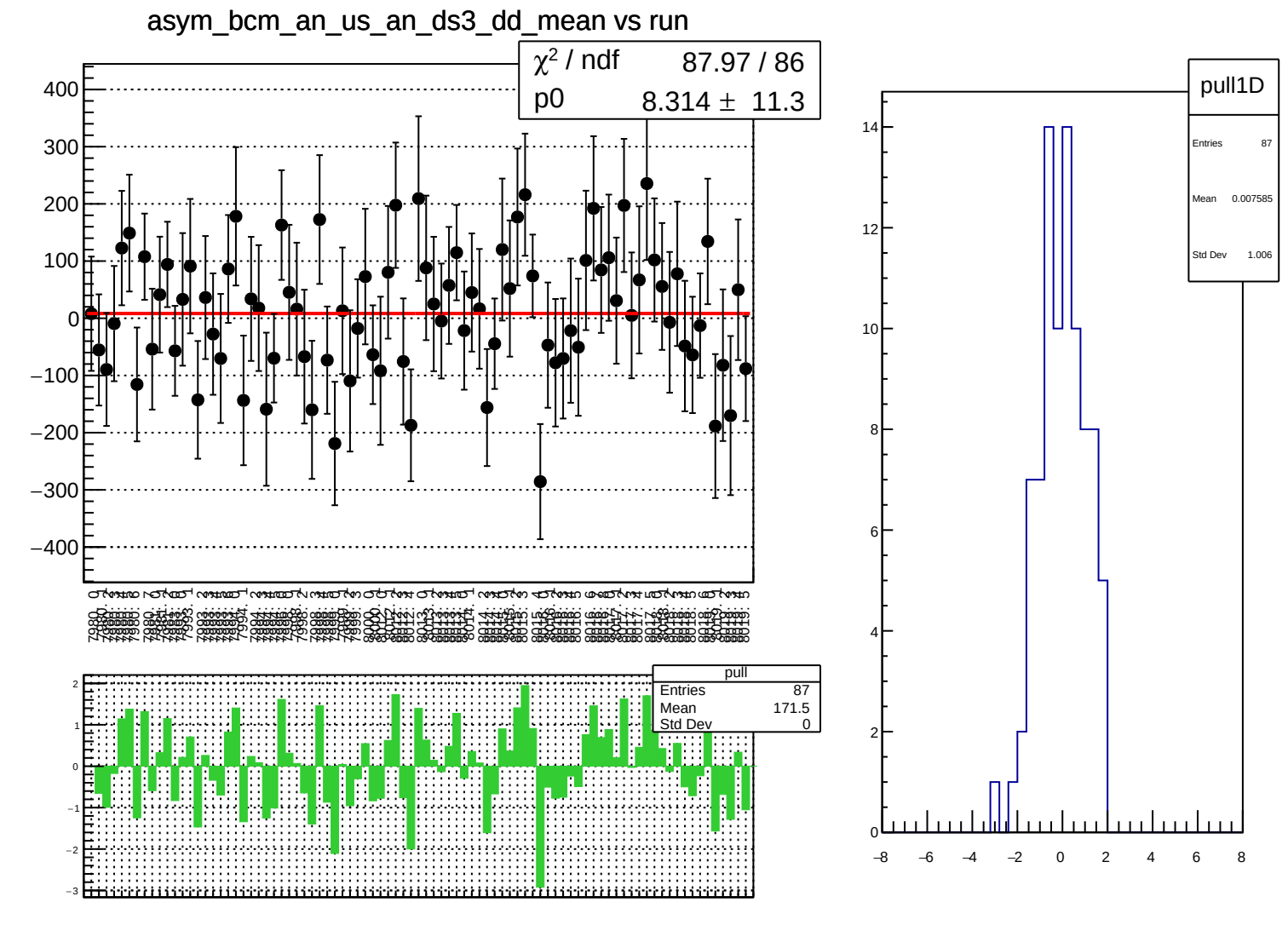

pull1D
Entries 87
Mean −0.002828
Std Dev 1.011

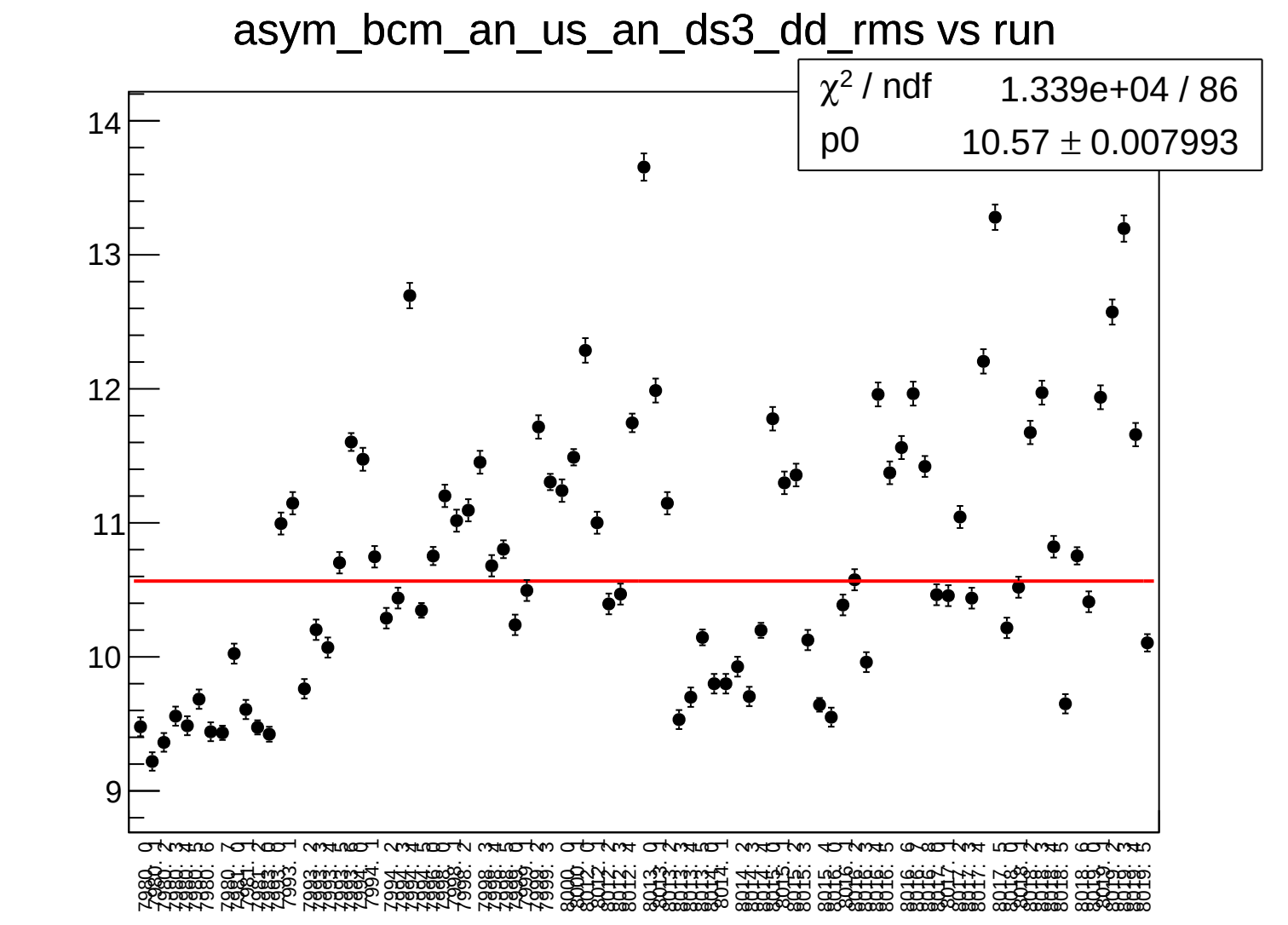

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.194e+04 / 86
p0 10.78 ± 0.008155
14
13
12
11
10

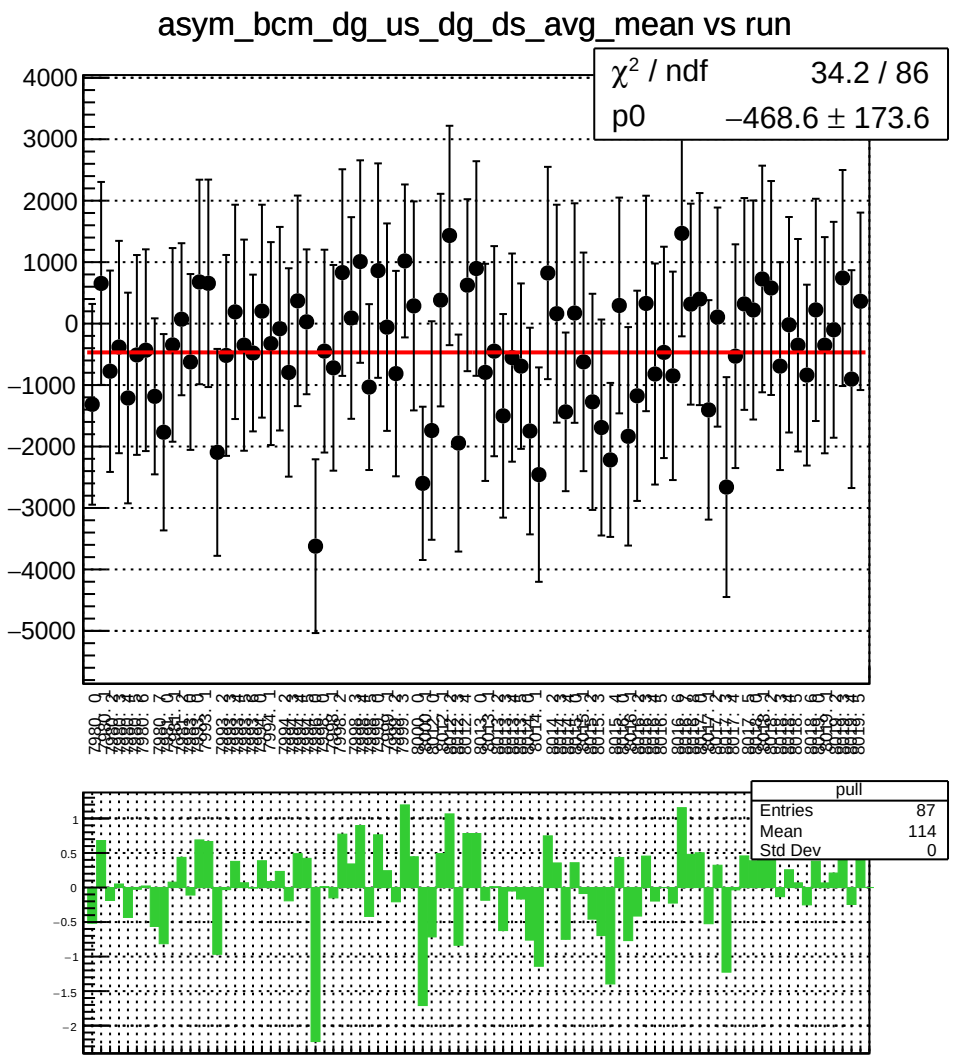

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 33.28 / 86
p0 −480.1± 173.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 142.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

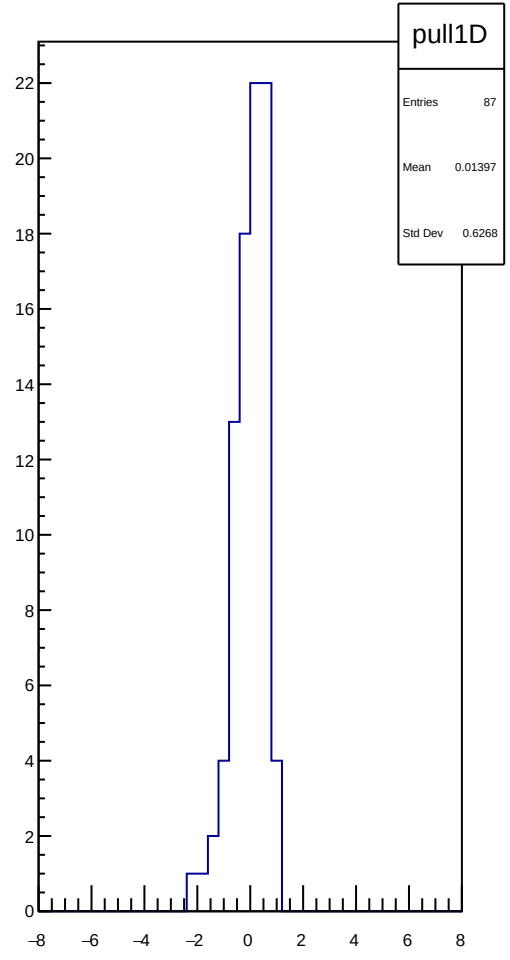

pull1D
Entries 87
Mean 0.01739
Std Dev 0.6182
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

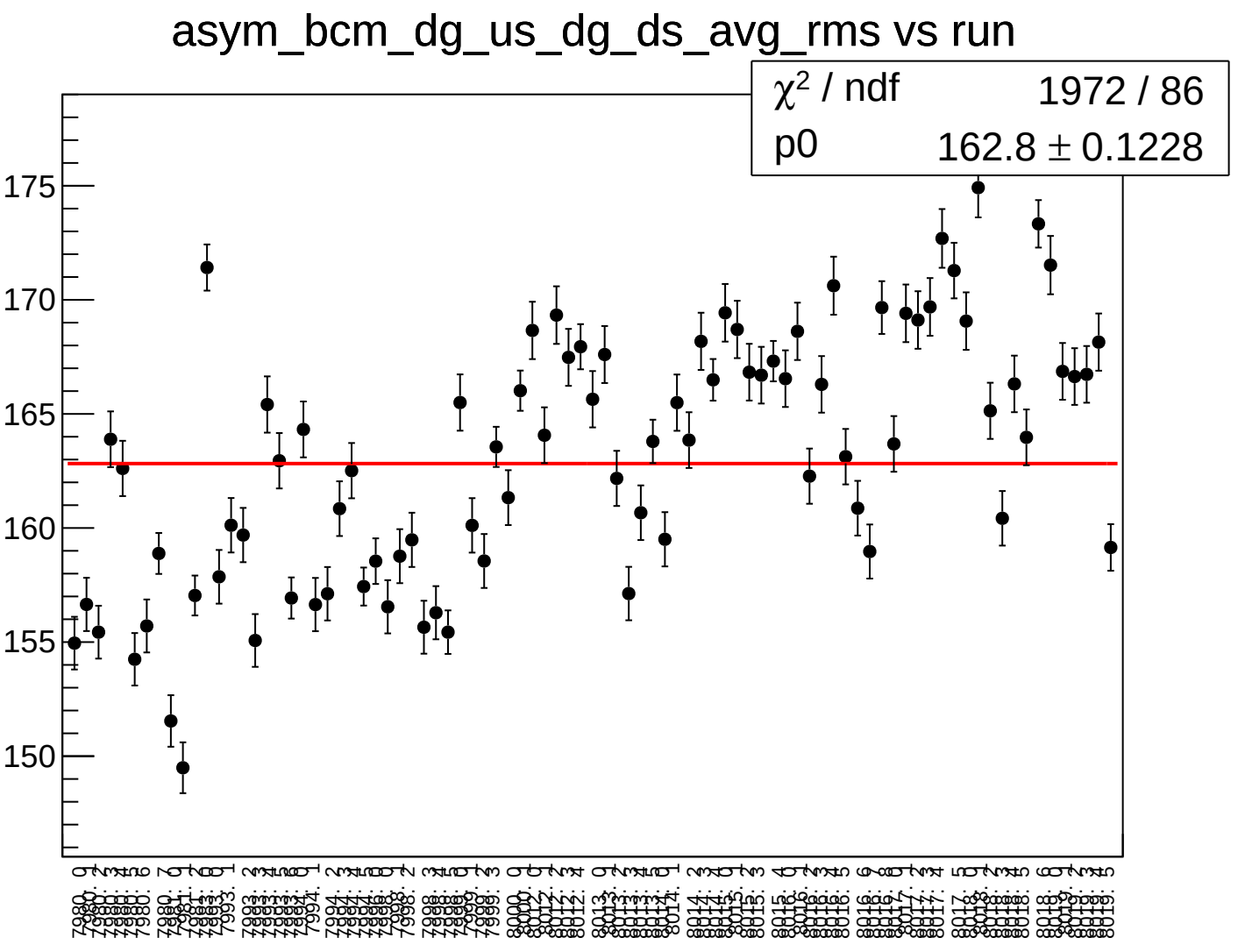

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 2022 / 86
p0 162.4 ± 0.1224
175
170
165
160
155
150

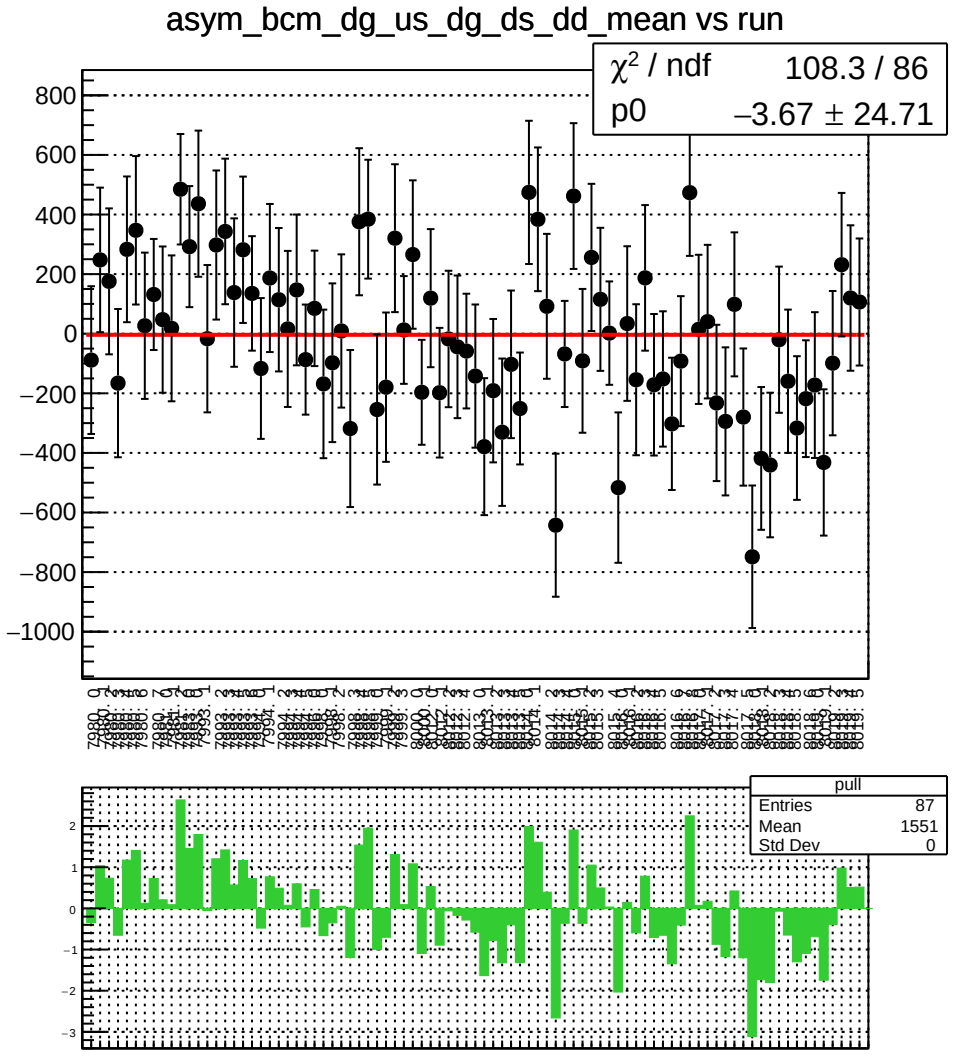

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 87.97 / 86
p0 8.314 ± 11.3
pull
Entries 87
Mean 171.5
Std Dev 0
pull1D
Entries 87
Mean 0.007585
Std Dev 1.006

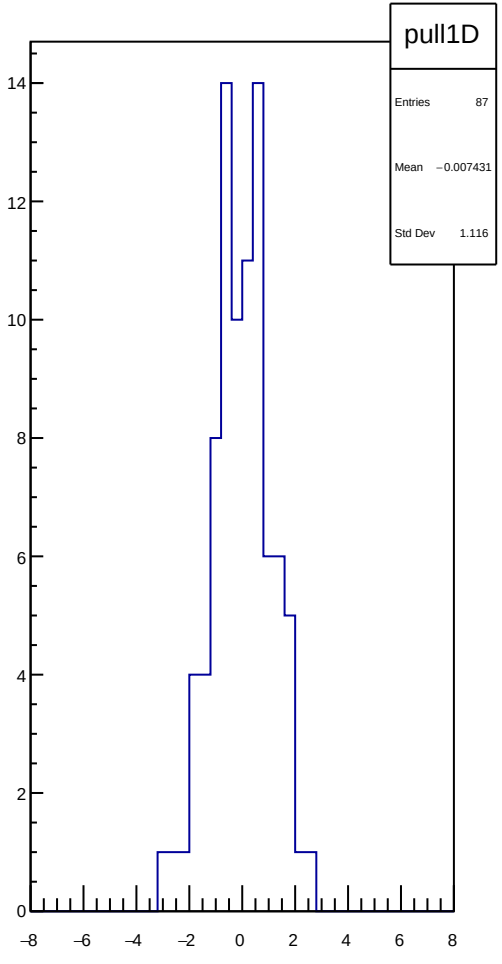

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.339e+04 / 86
p0 10.57 ± 0.007993
14
13
12
11
10
9

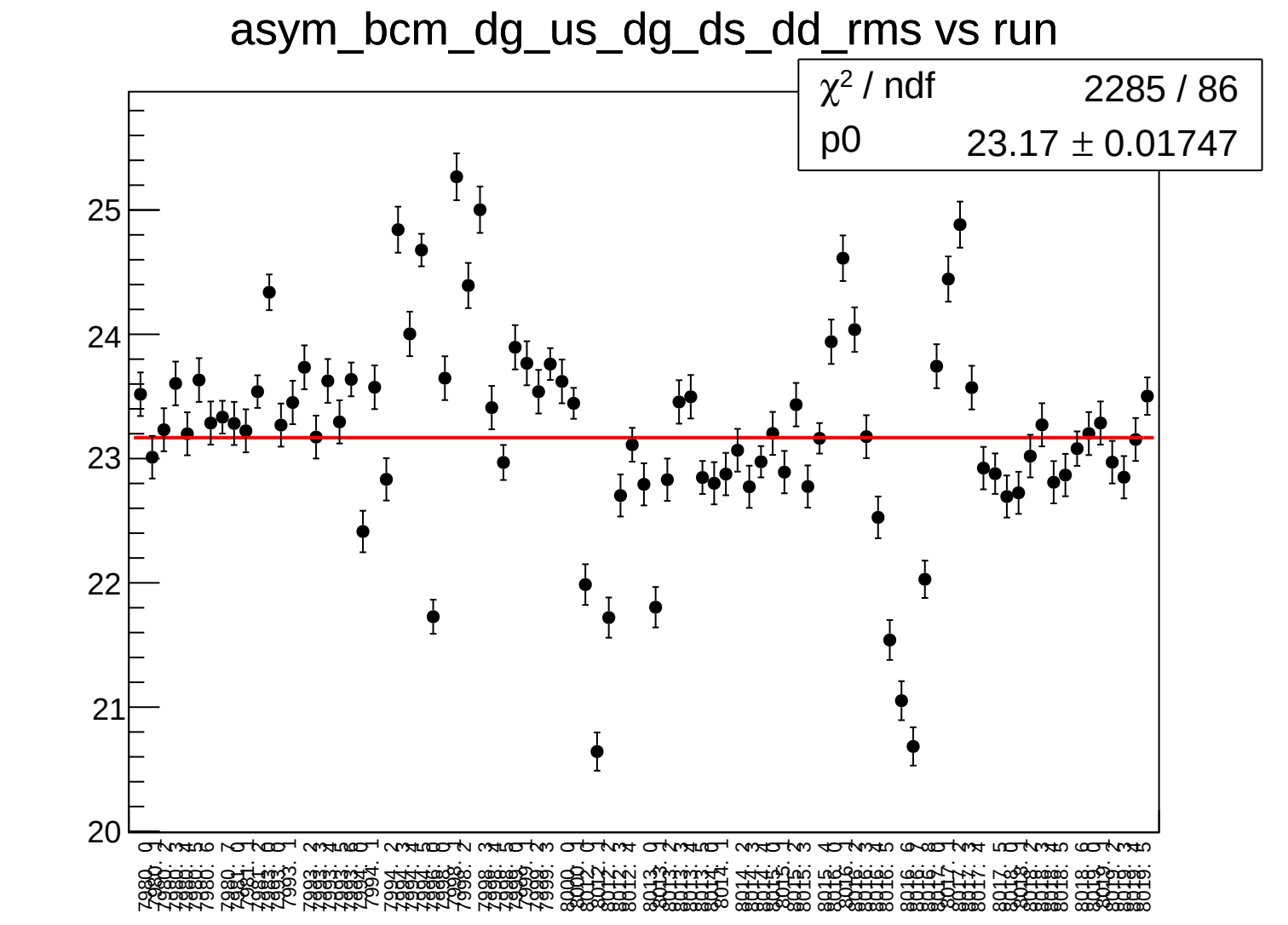

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 34.2 / 86
p0 −468.6 ± 173.6
pull
Entries 87
Mean 114
Std Dev 0

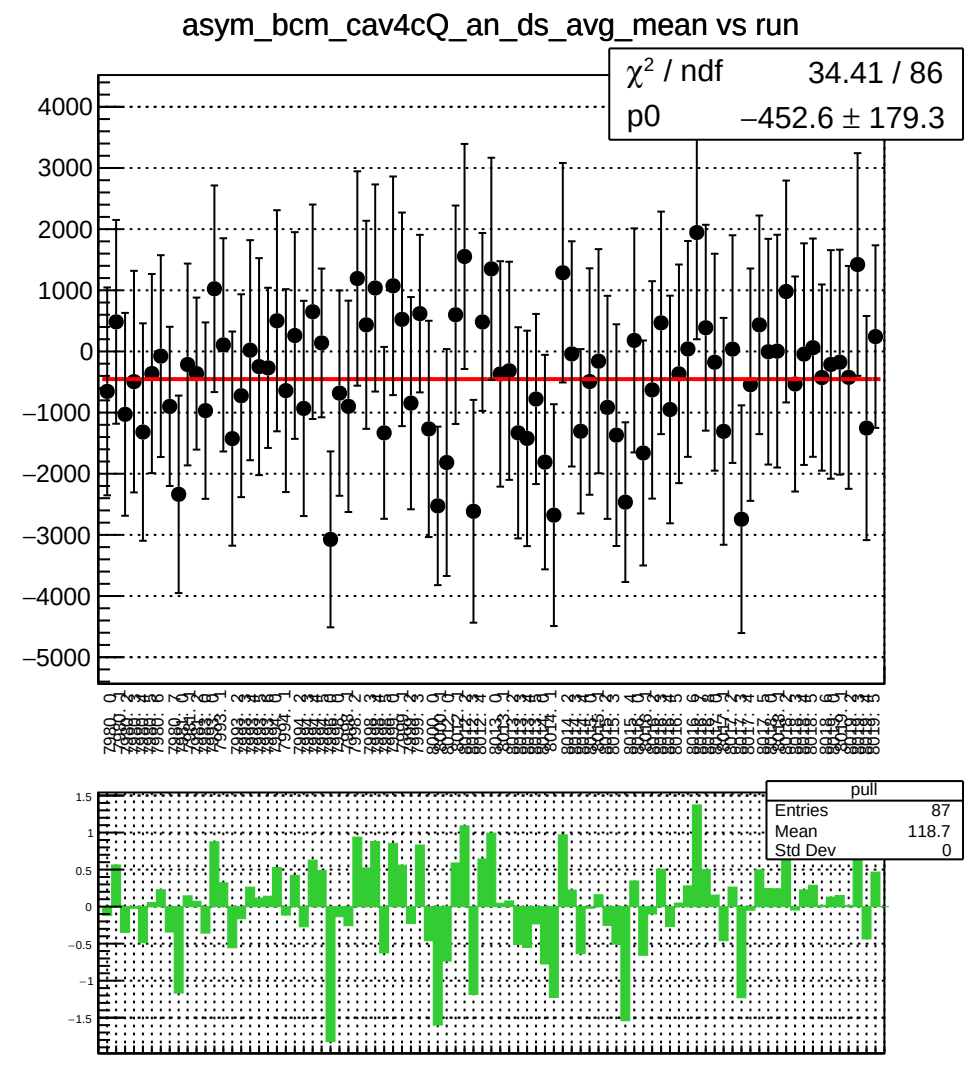

pull1D
Entries 87
Mean 0.01397
Std Dev 0.6268

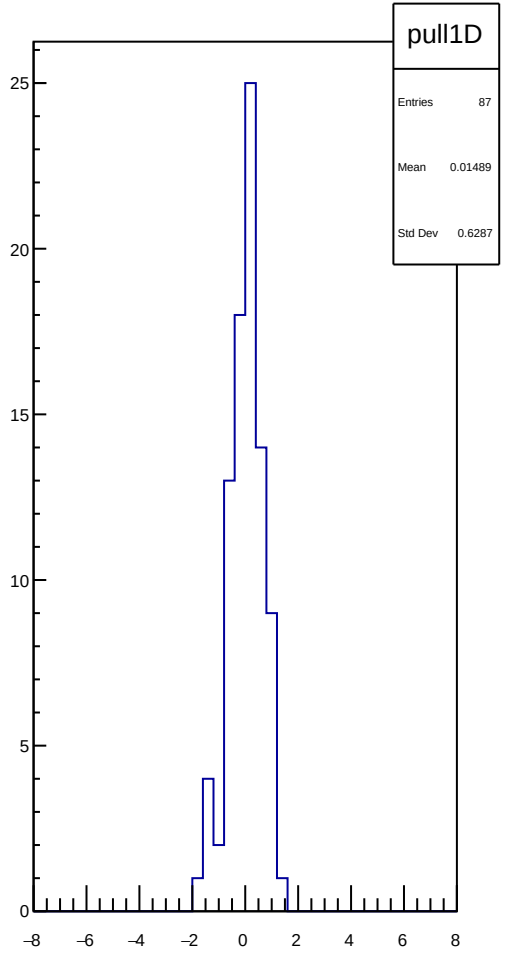

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1972 / 86
p0 162.8 ± 0.1228
175
170
165
160
155
150

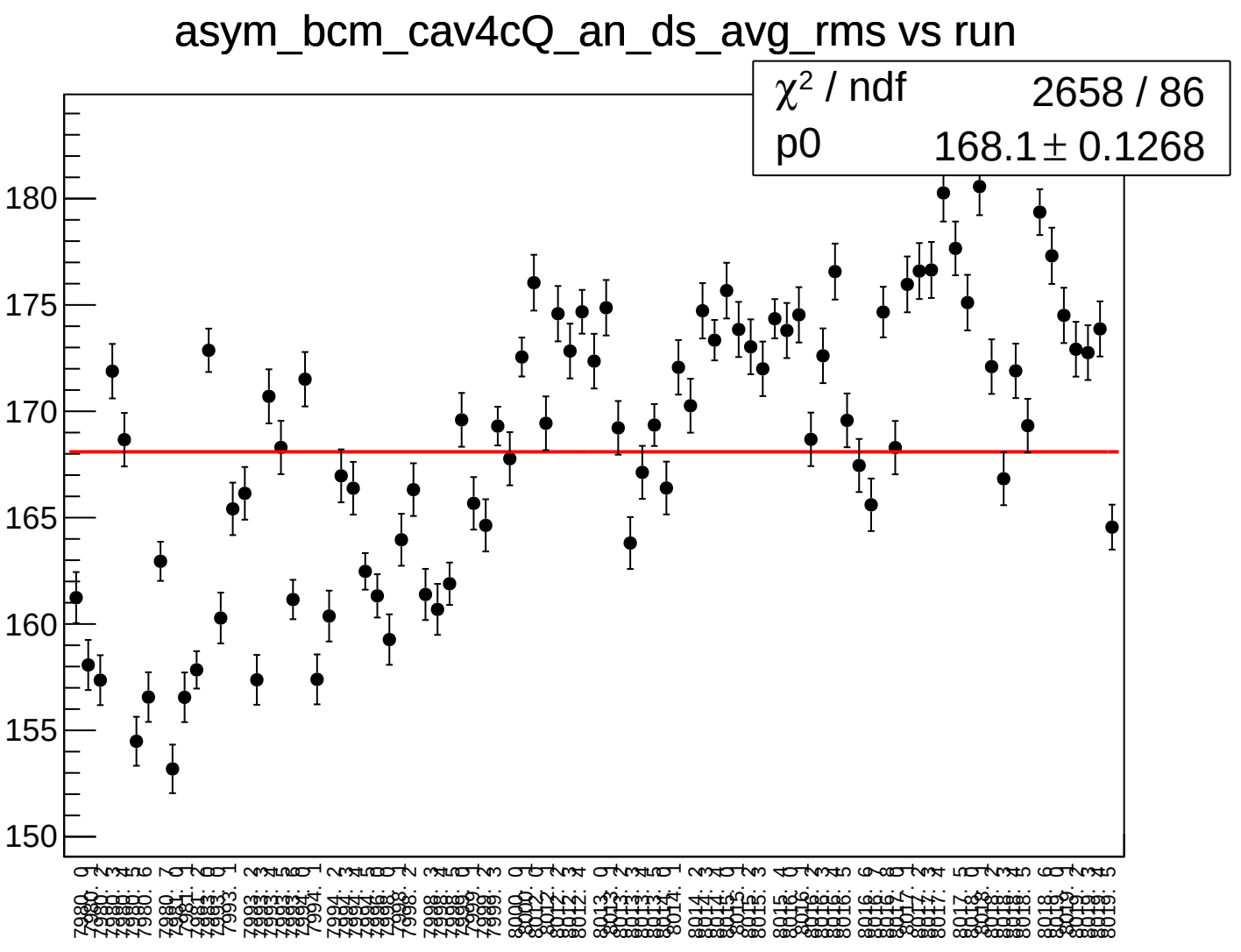

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 108.3 / 86
p0 −3.67 ± 24.71
pull
Entries 87
Mean 1551
Std Dev 0

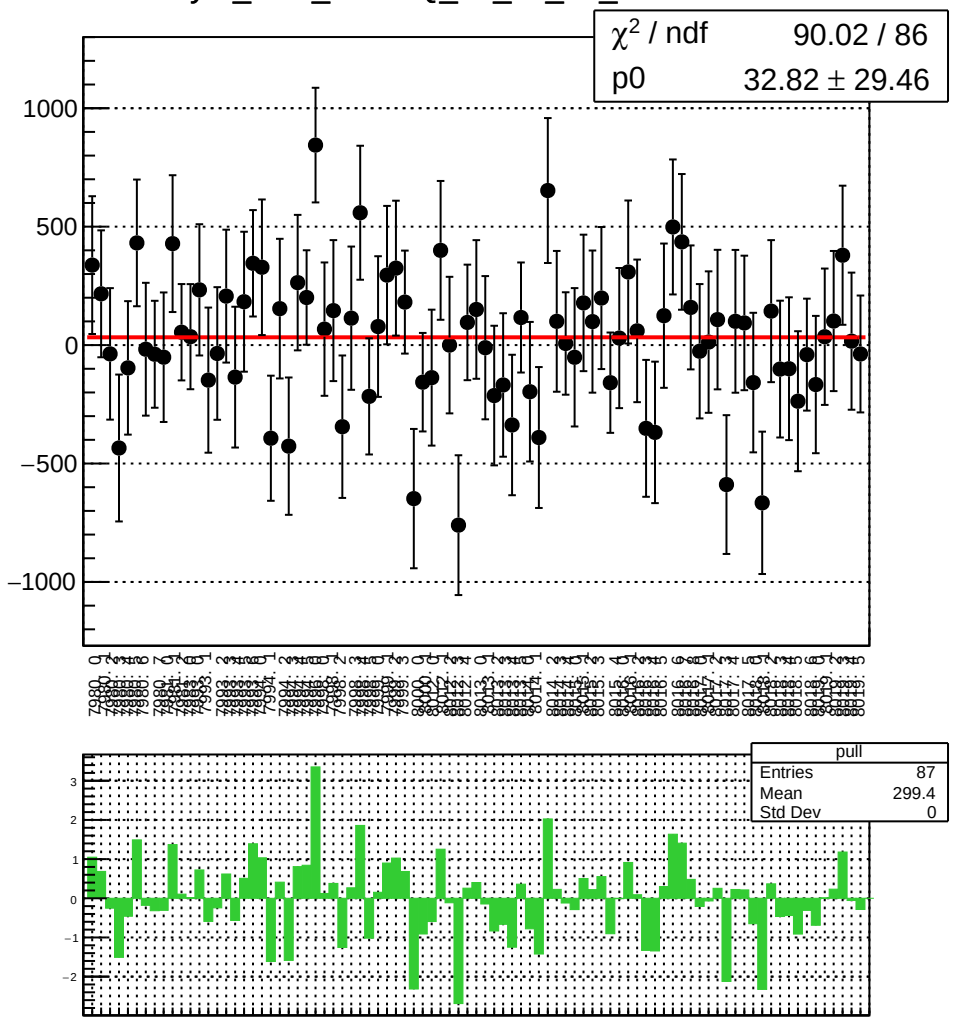

pull1D
Entries 87
Mean −0.007431
Std Dev 1.116

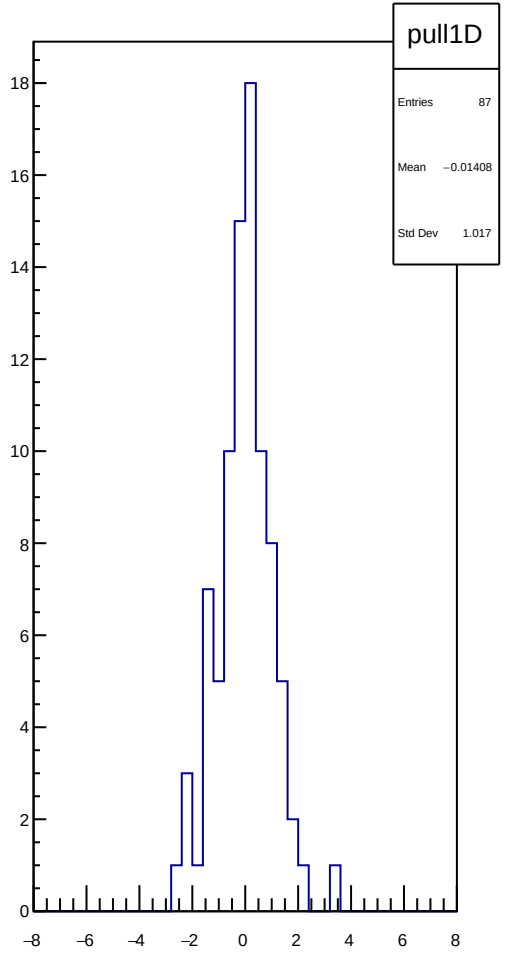

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2285 / 86
p0 23.17 ± 0.01747
25
24
23
22
21
20

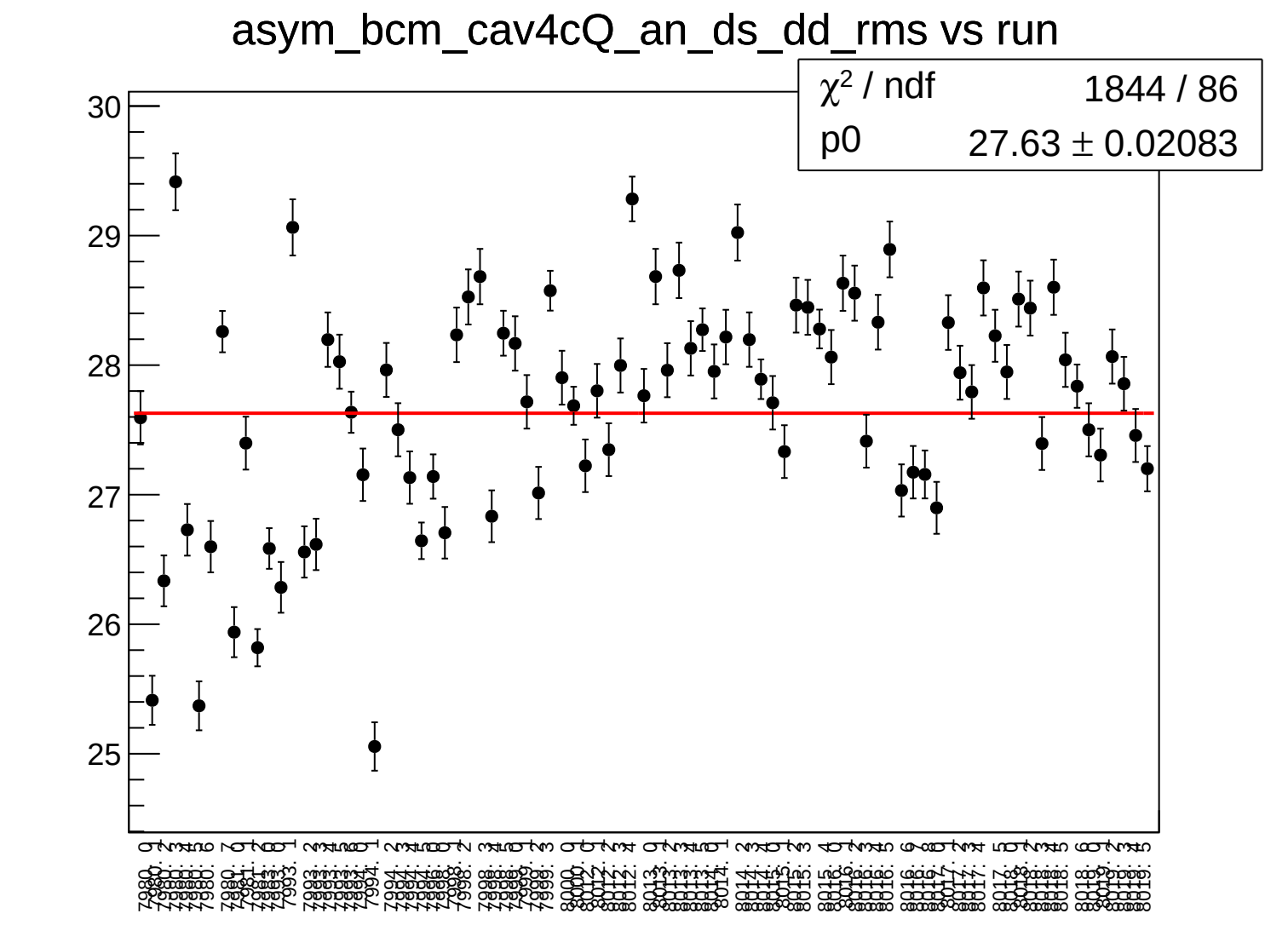

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 34.41 / 86
p0 −452.6 ± 179.3
pull
Entries 87
Mean 118.7
Std Dev 0

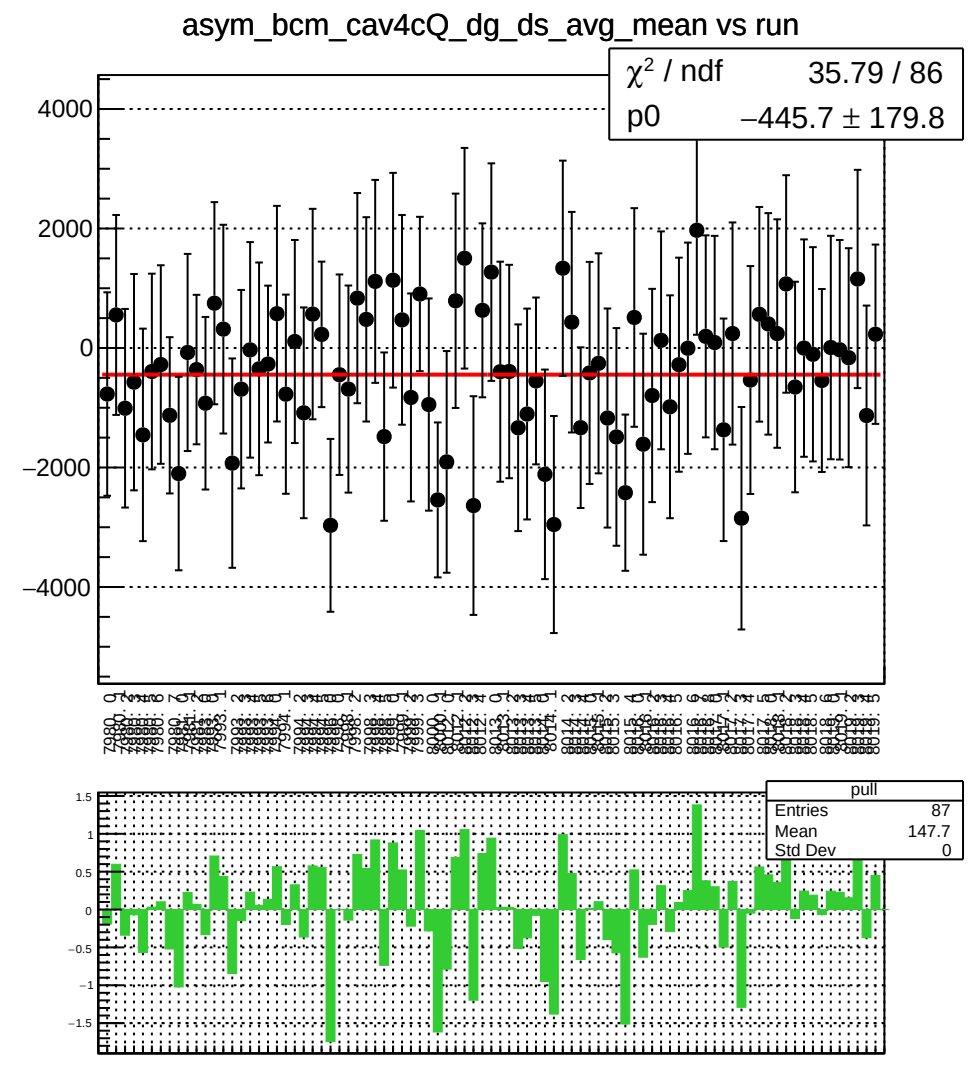

pull1D
Entries 87
Mean 0.01489
Std Dev 0.6287

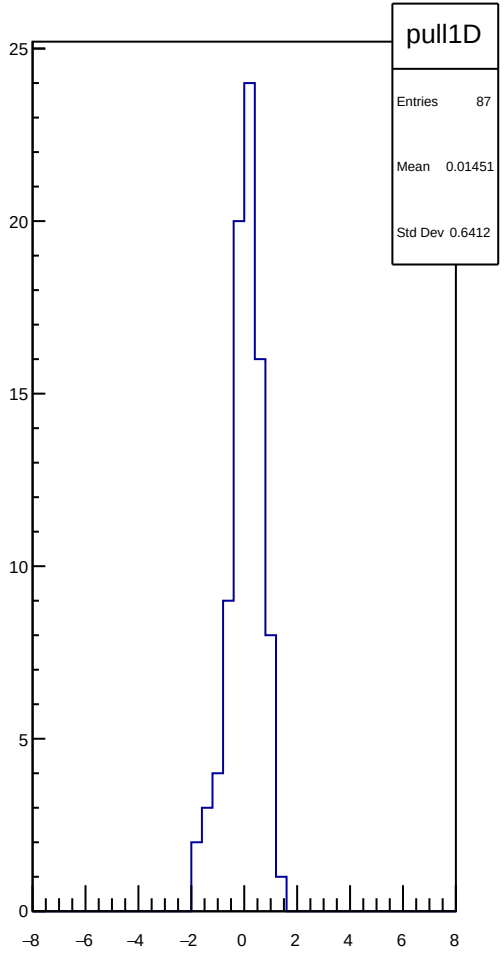

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2658 / 86
p0 168.1 ± 0.1268
180
175
170
165
160
155
150

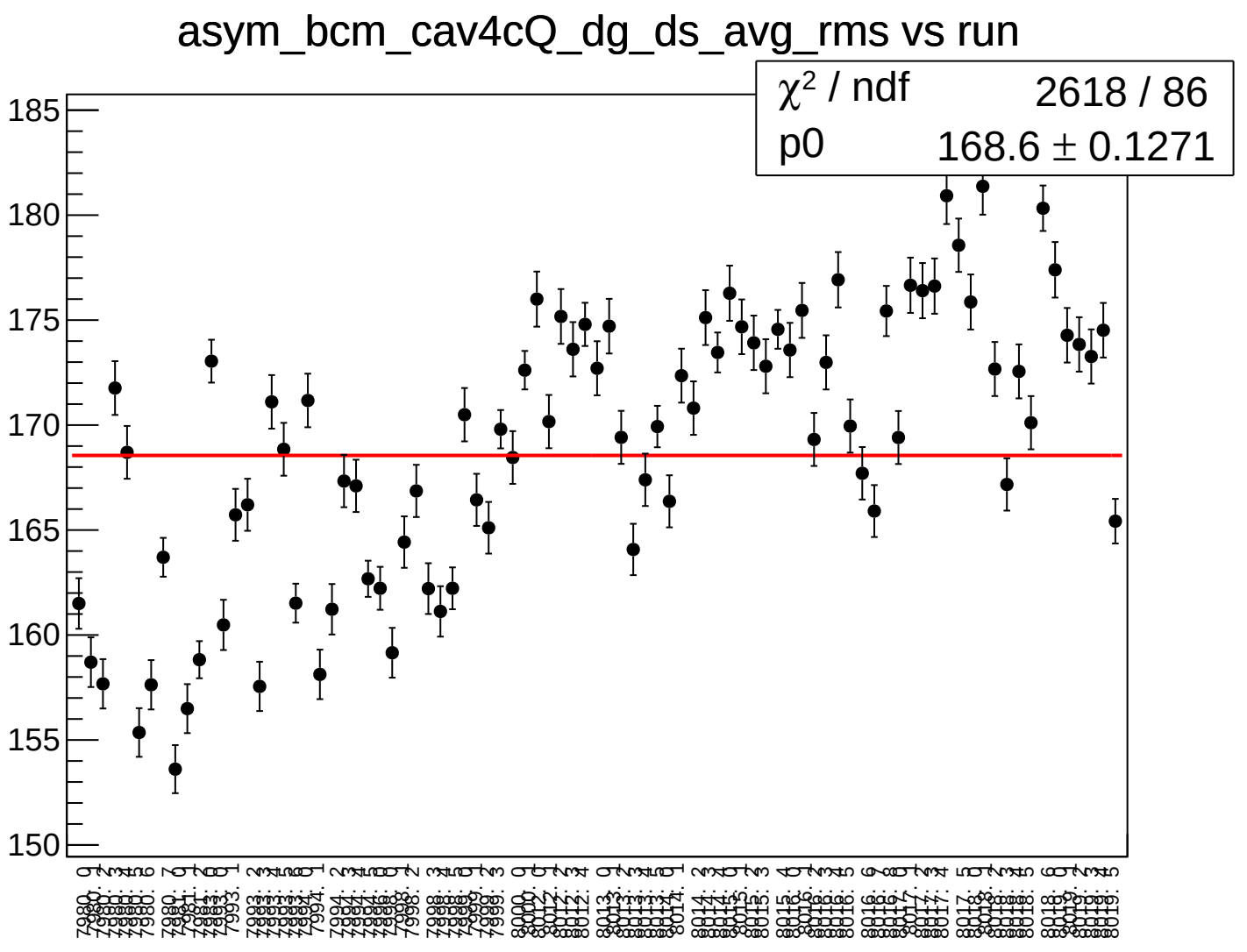

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 90.02 / 86
p0 32.82 ± 29.46
1000
500
0
−500
−1000
pull
Entries 87
Mean 299.4
Std Dev 0
3
2
1
0
−1
−2

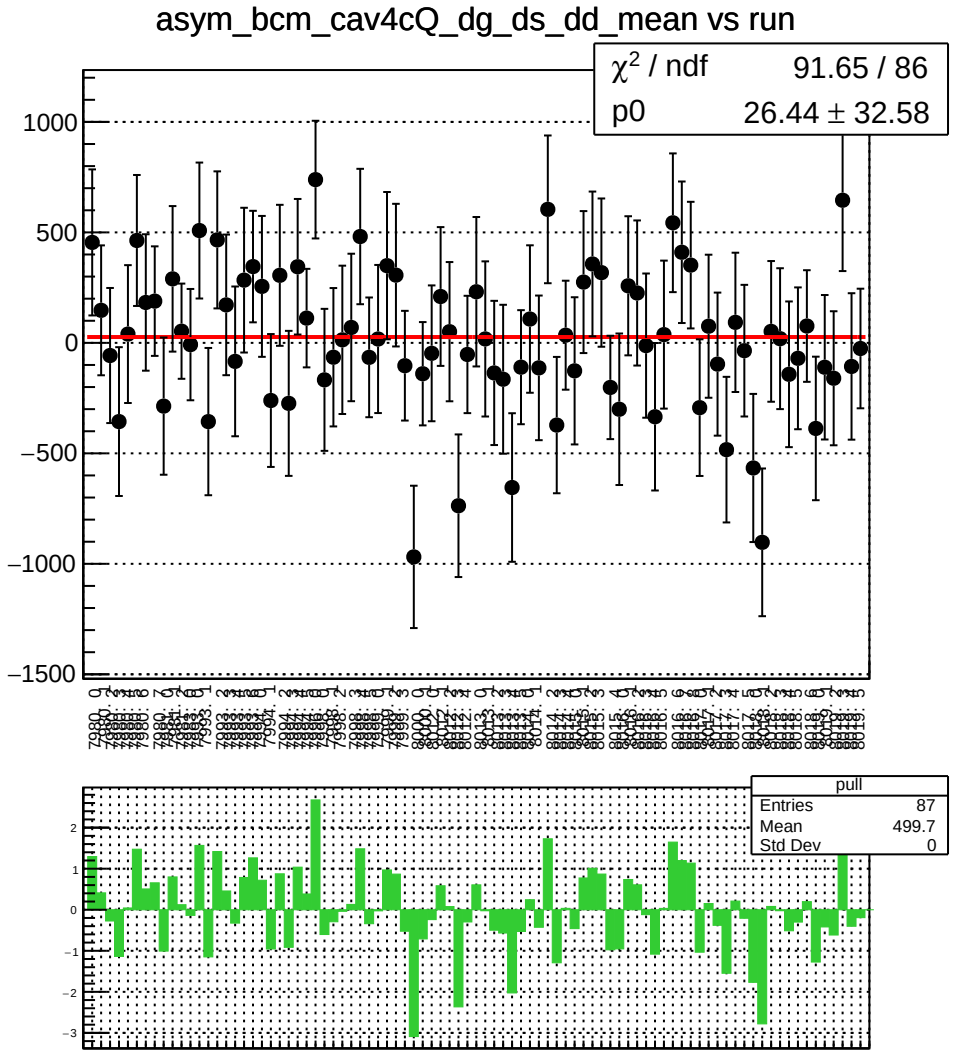

pull1D
Entries 87
Mean −0.01408
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

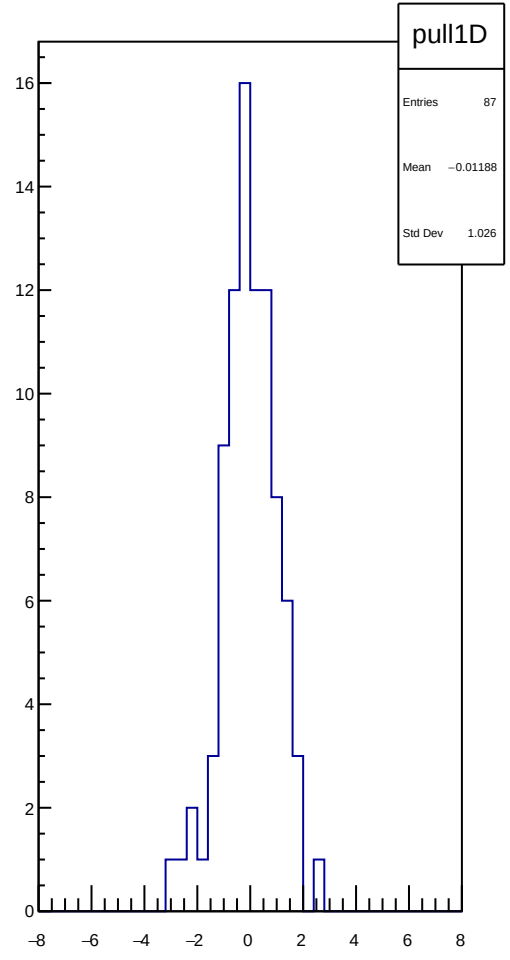

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 1844 / 86
p0 27.63 ± 0.02083
30
29
28
27
26
25

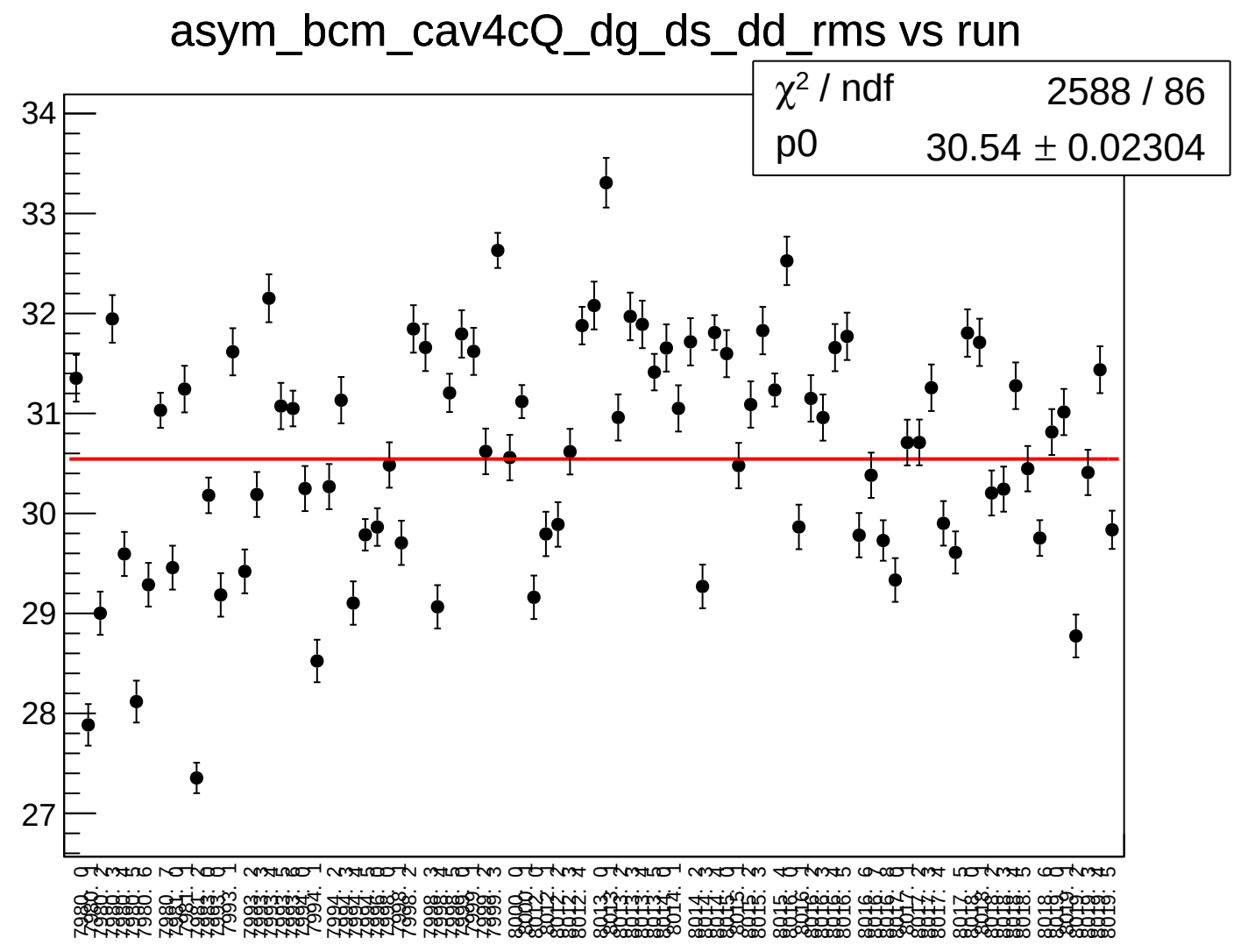

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 35.79 / 86
p0 −445.7 ± 179.8
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 147.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

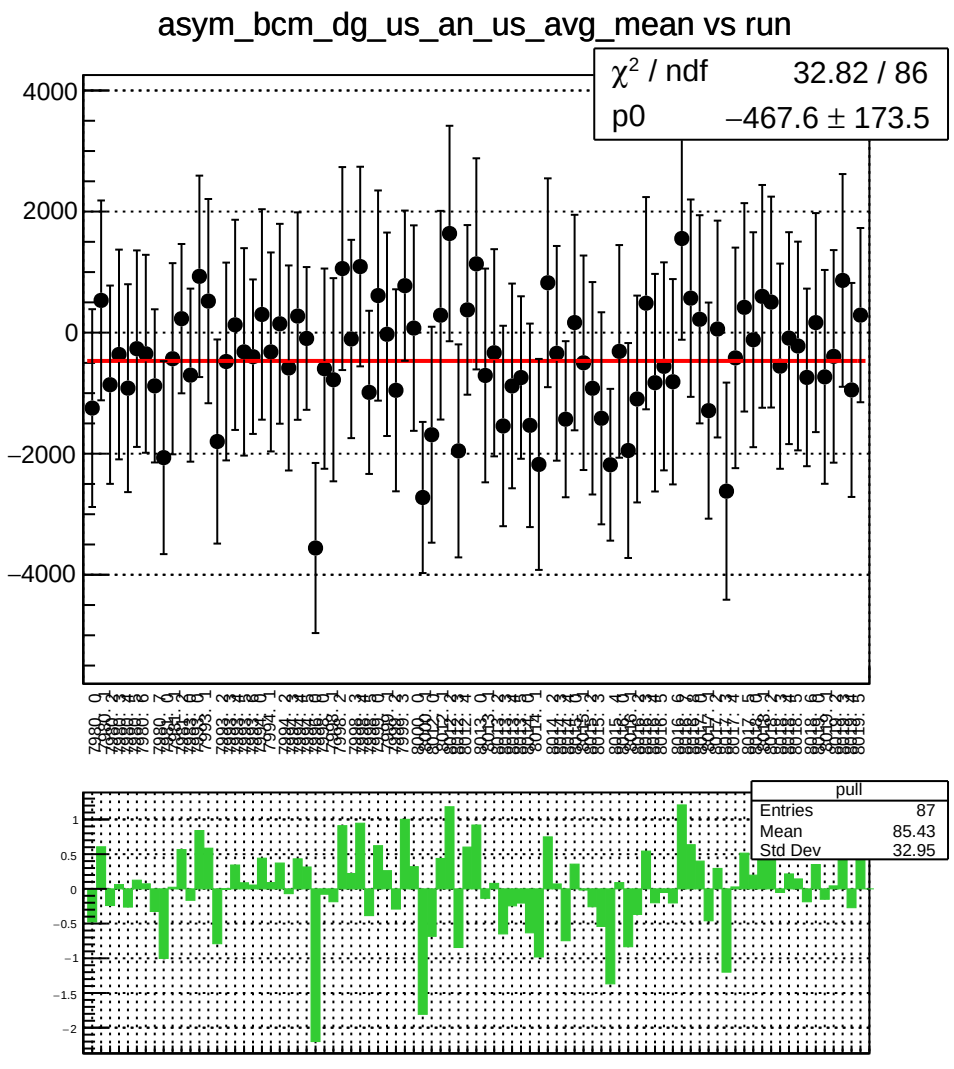

pull1D
Entries 87
Mean 0.01451
Std Dev 0.6412
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

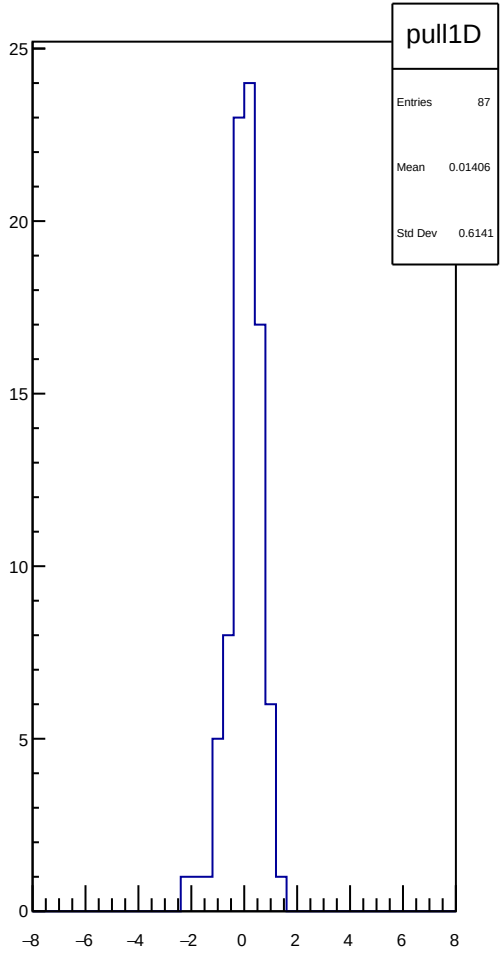

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2618 / 86
p0 168.6 ± 0.1271
185
180
175
170
165
160
155
150

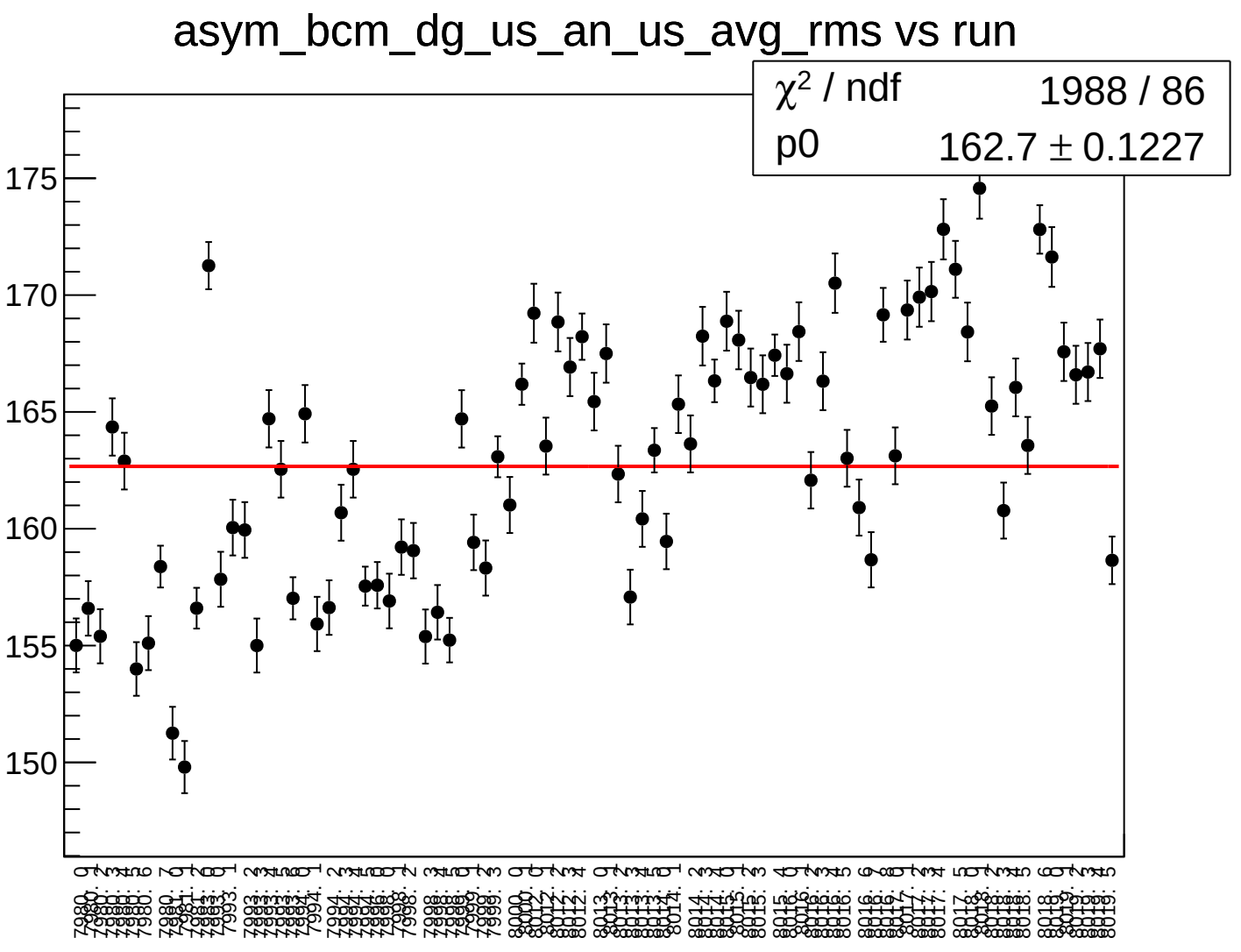

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 91.65 / 86
p0 26.44 ± 32.58
1000
500
0
−500
−1000
−1500
pull
Entries 87
Mean 499.7
Std Dev 0
2
1
0
−1
−2
−3

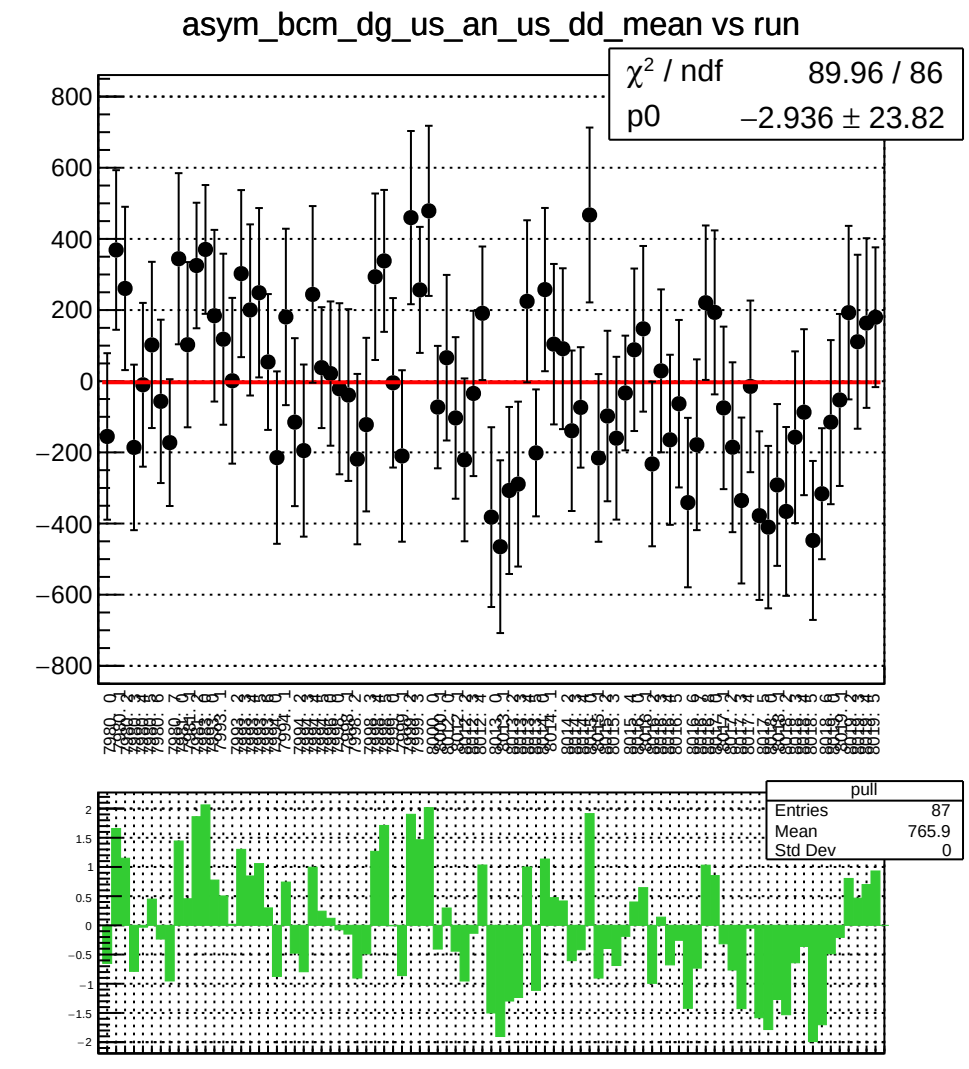

pull1D
Entries 87
Mean −0.01188
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

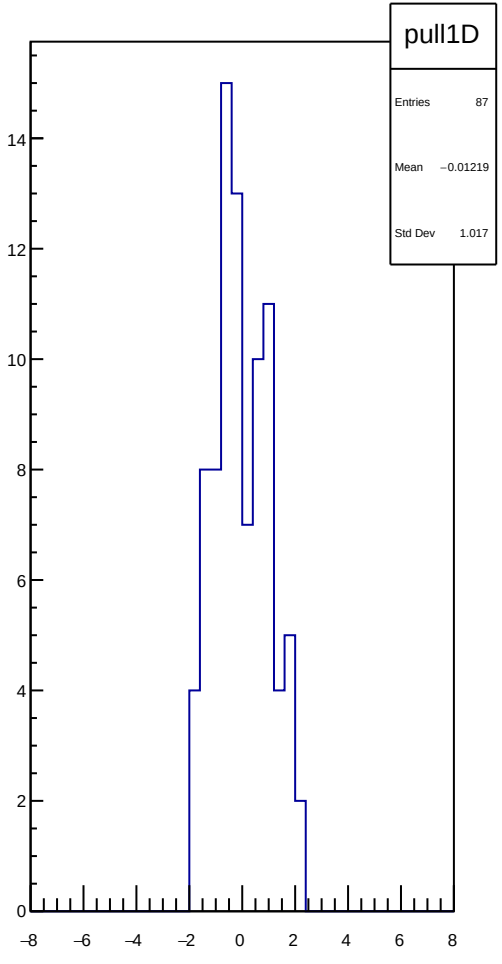

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2588 / 86
p0 30.54 ± 0.02304
34
33
32
31
30
29
28
27

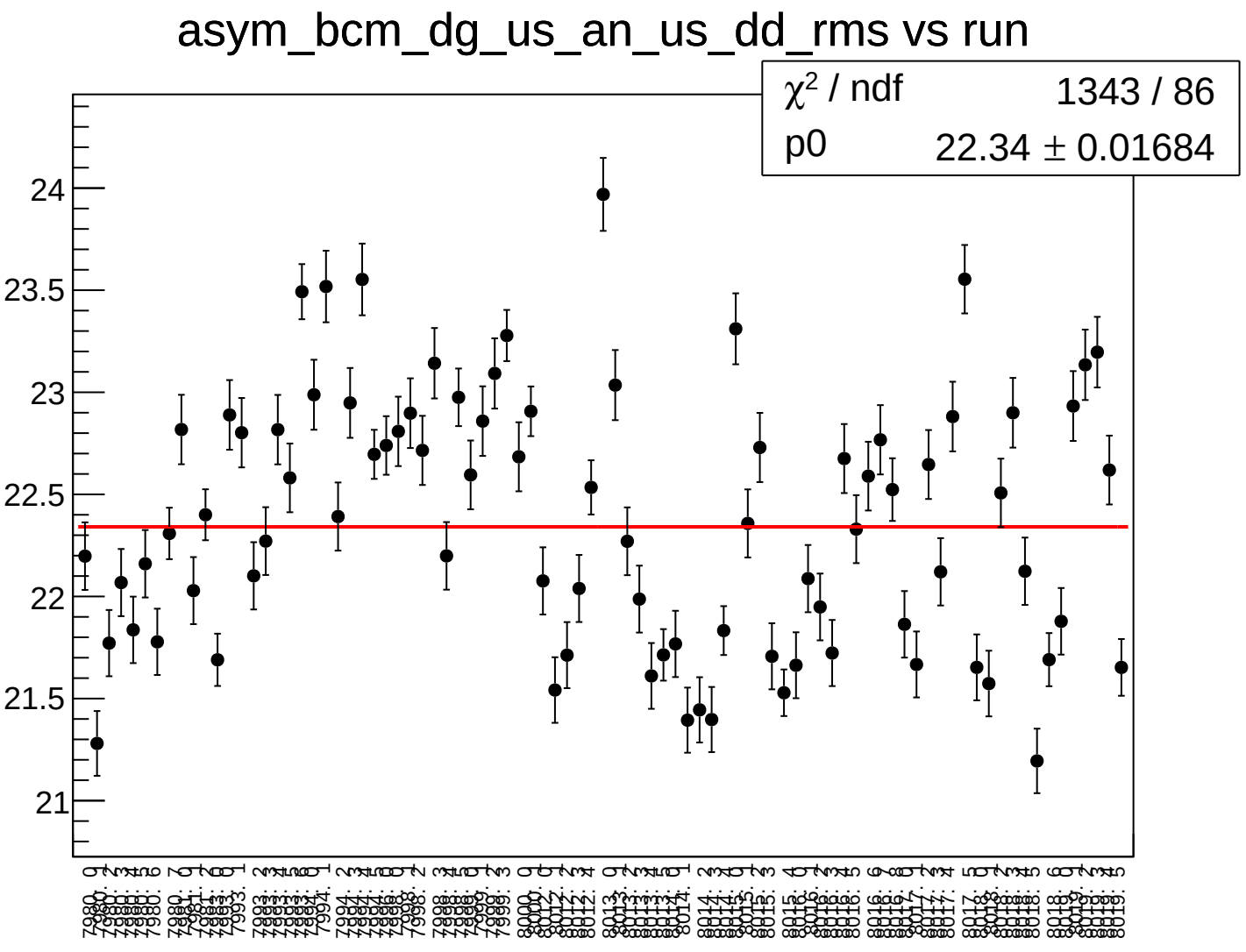

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 32.82 / 86
p0 −467.6 ± 173.5
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 85.43
Std Dev 32.95
1
0.5
0
−0.5
−1
−1.5
−2

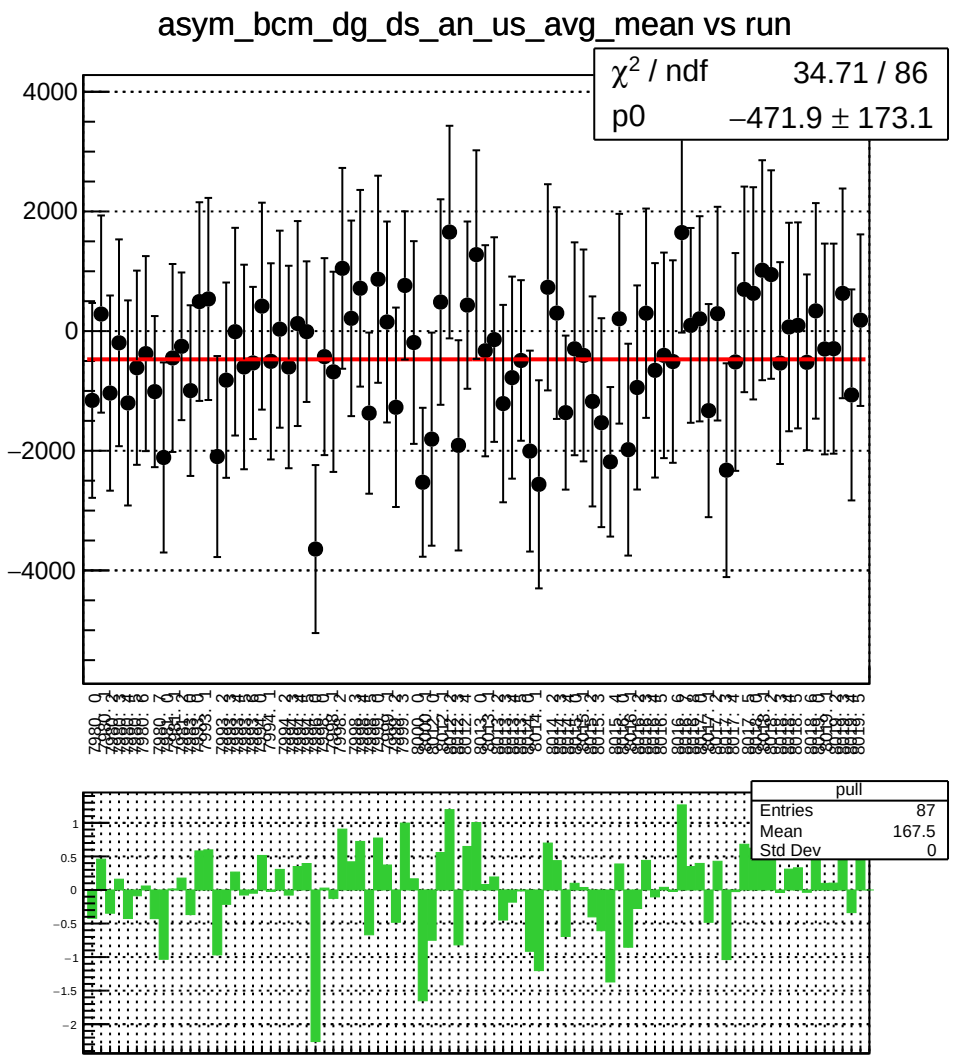

pull1D
Entries 87
Mean 0.01406
Std Dev 0.6141
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

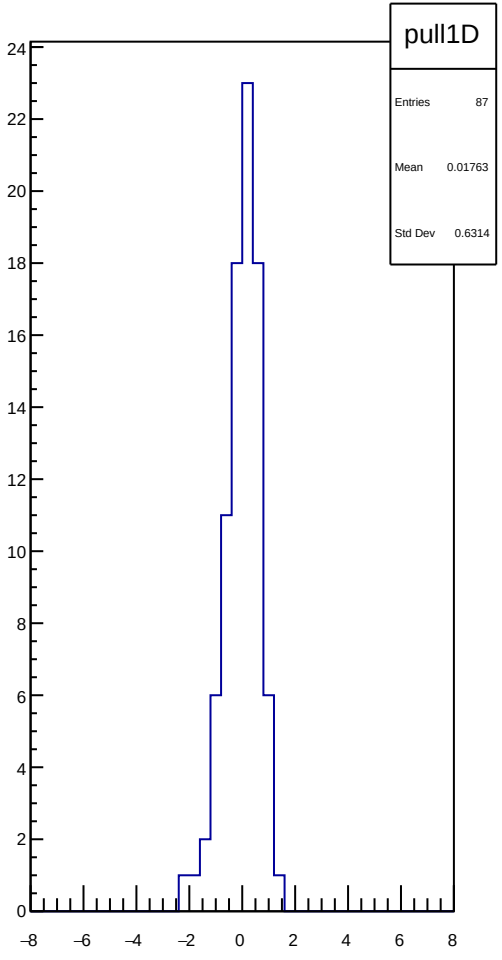

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1988 / 86
p0 162.7 ± 0.1227
175
170
165
160
155
150

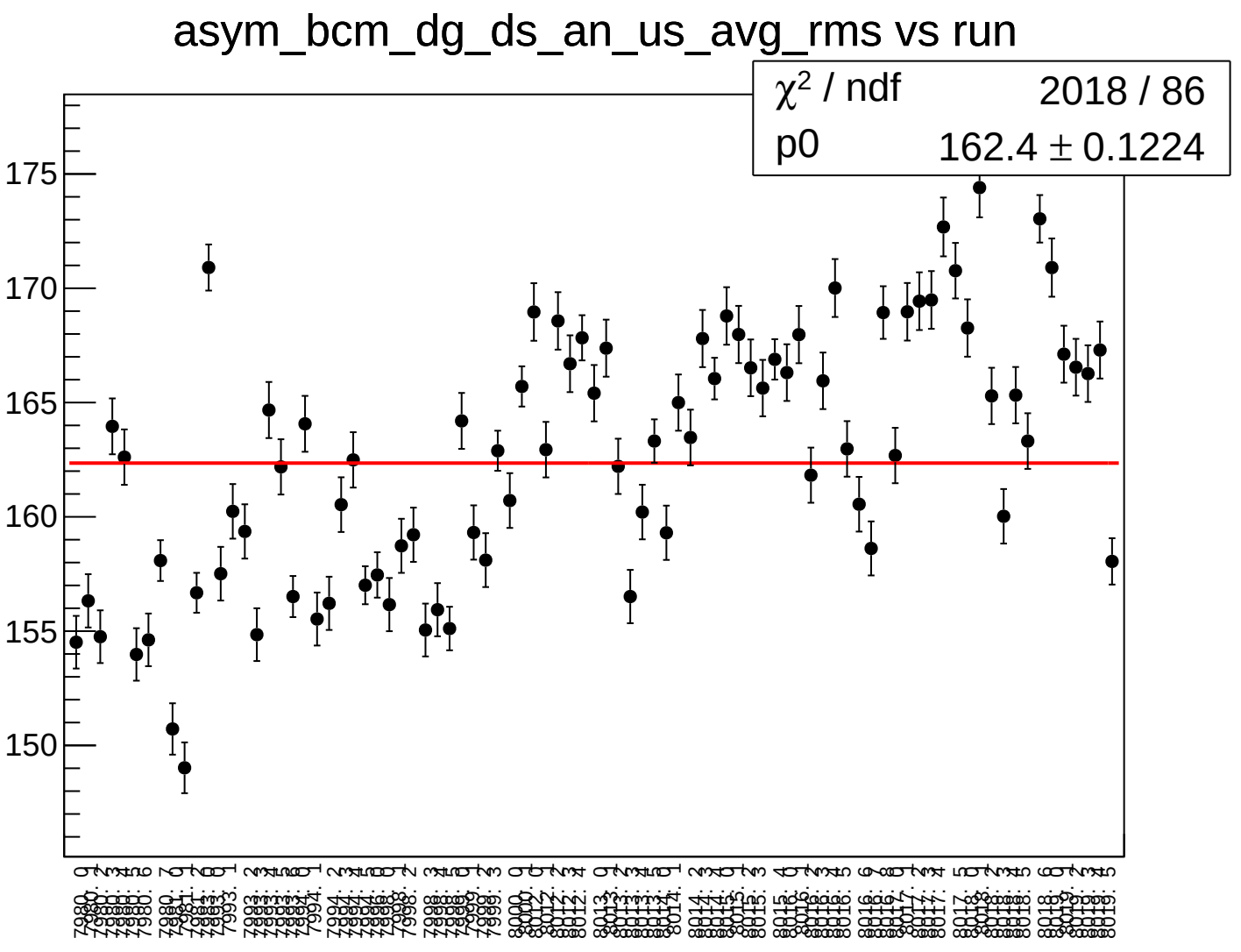

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 89.96 / 86
p0 −2.936 ± 23.82
pull
Entries 87
Mean 765.9
Std Dev 0

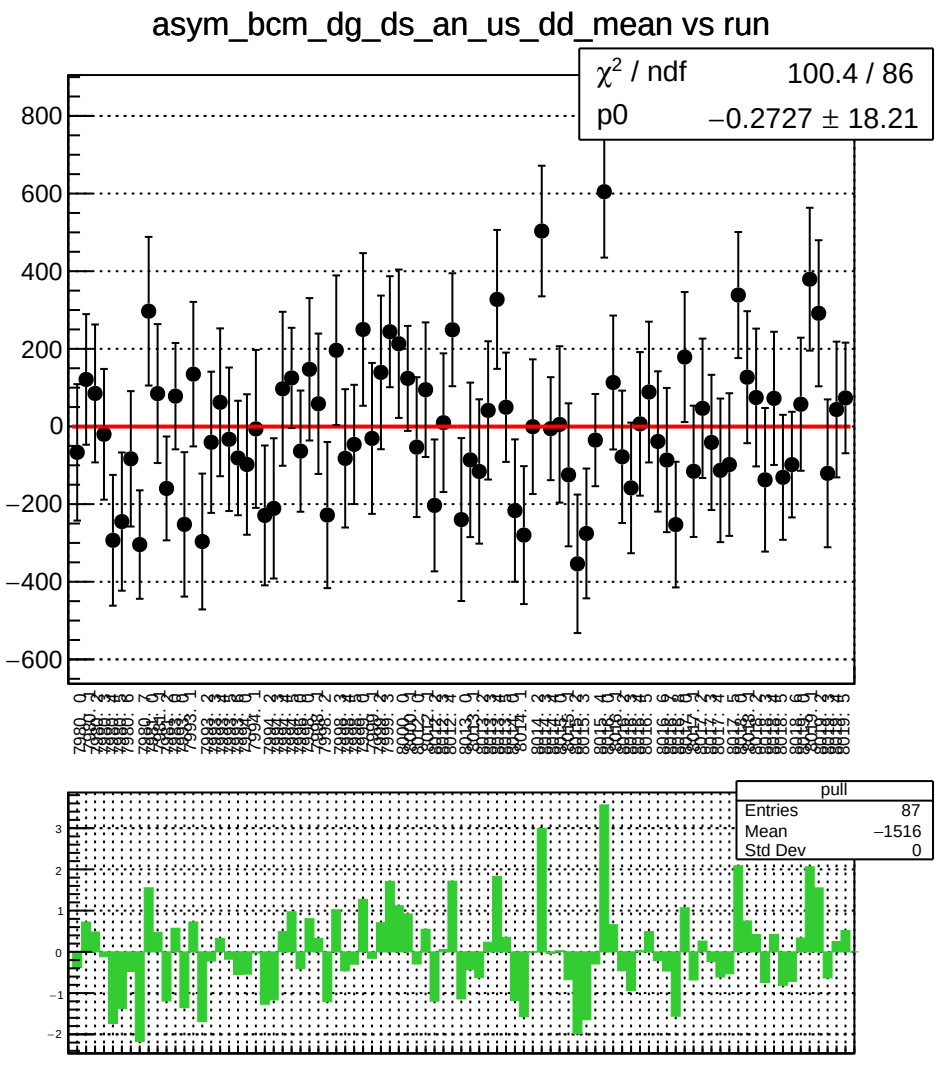

pull1D
Entries 87
Mean −0.01219
Std Dev 1.017

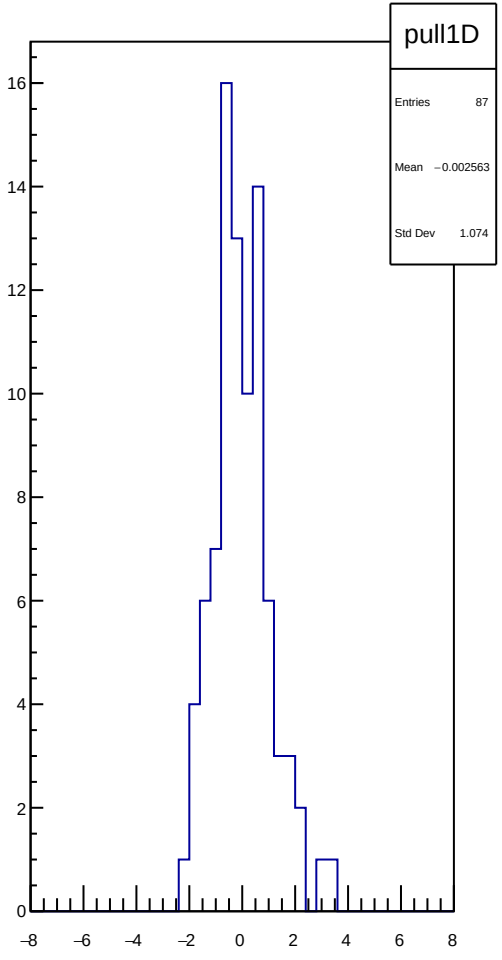

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1343 / 86
p0 22.34 ± 0.01684
24
23.5
23
22.5
22
21.5
21

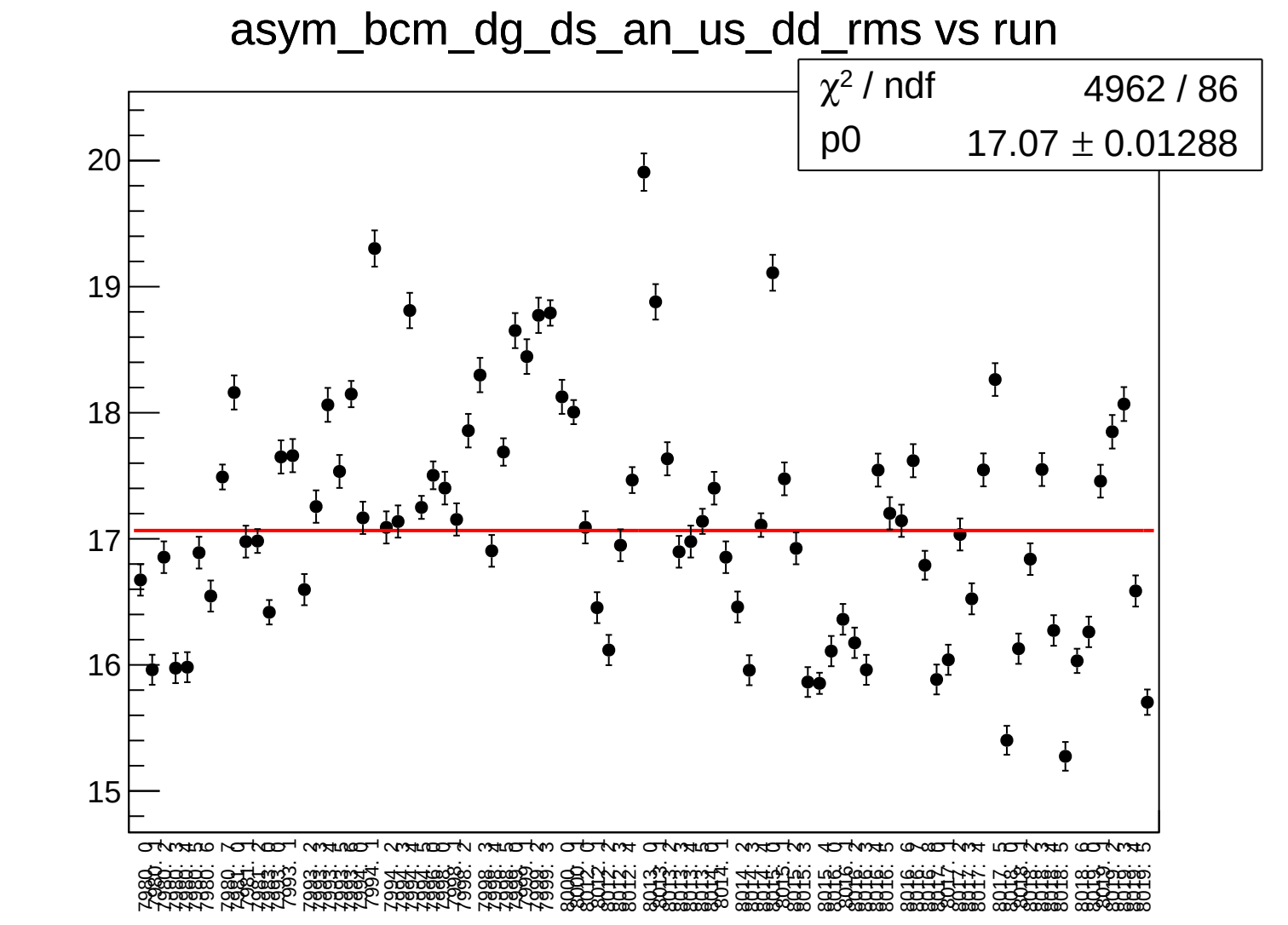

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 34.71 / 86
p0 −471.9 ± 173.1
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 167.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

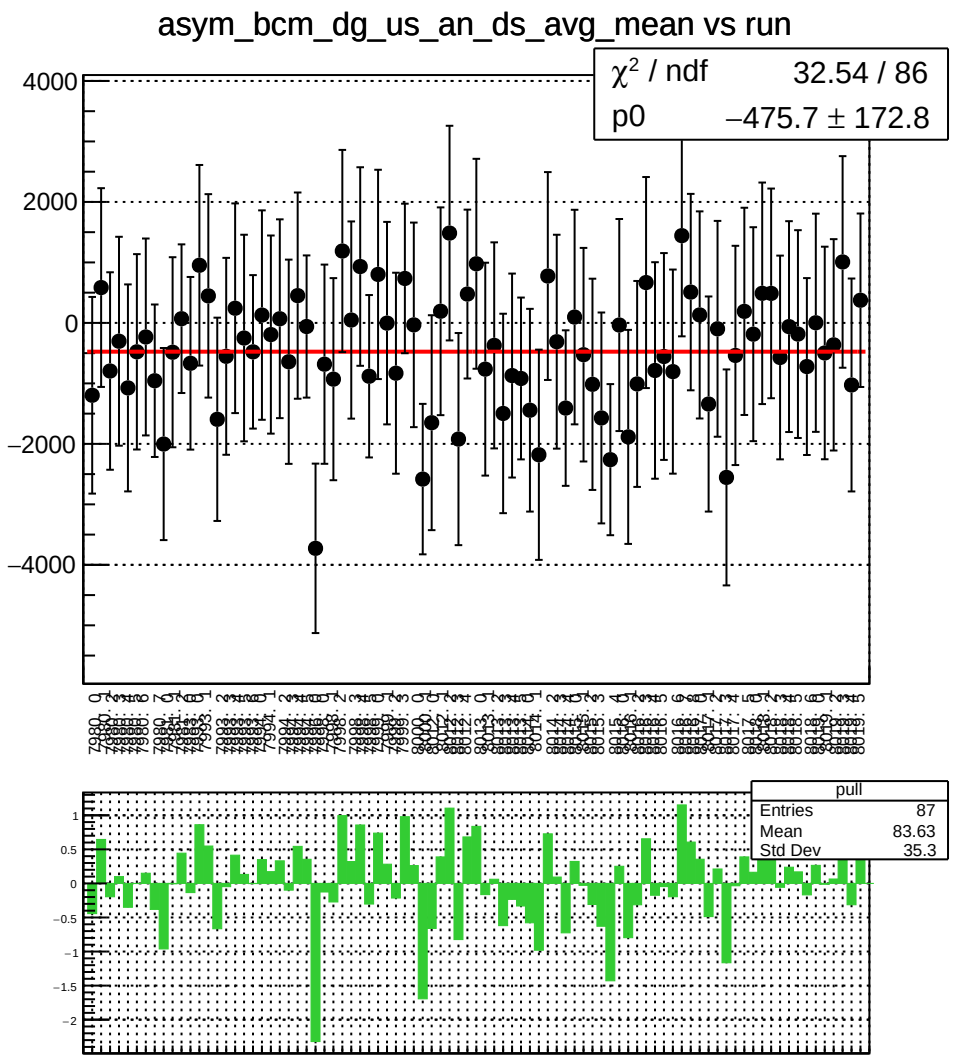

pull1D
Entries 87
Mean 0.01763
Std Dev 0.6314
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

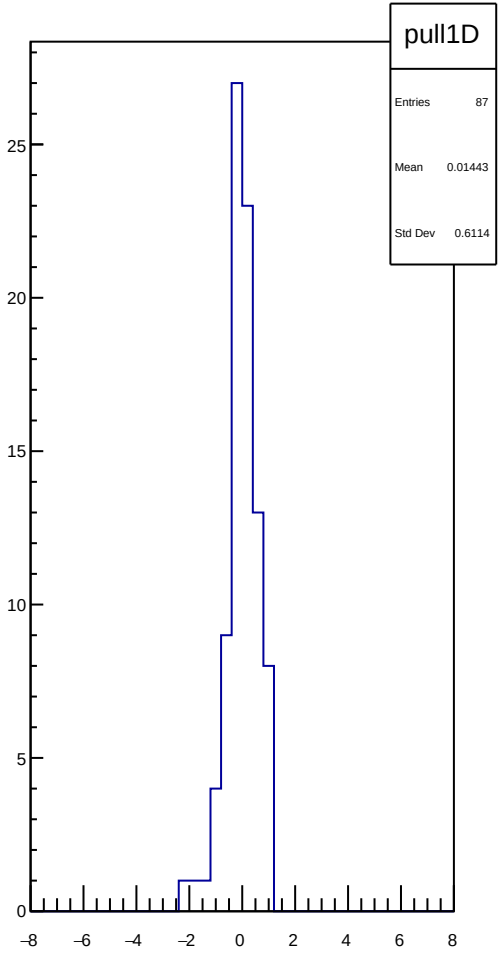

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 2018 / 86
p0 162.4 ± 0.1224
175
170
165
160
155
150

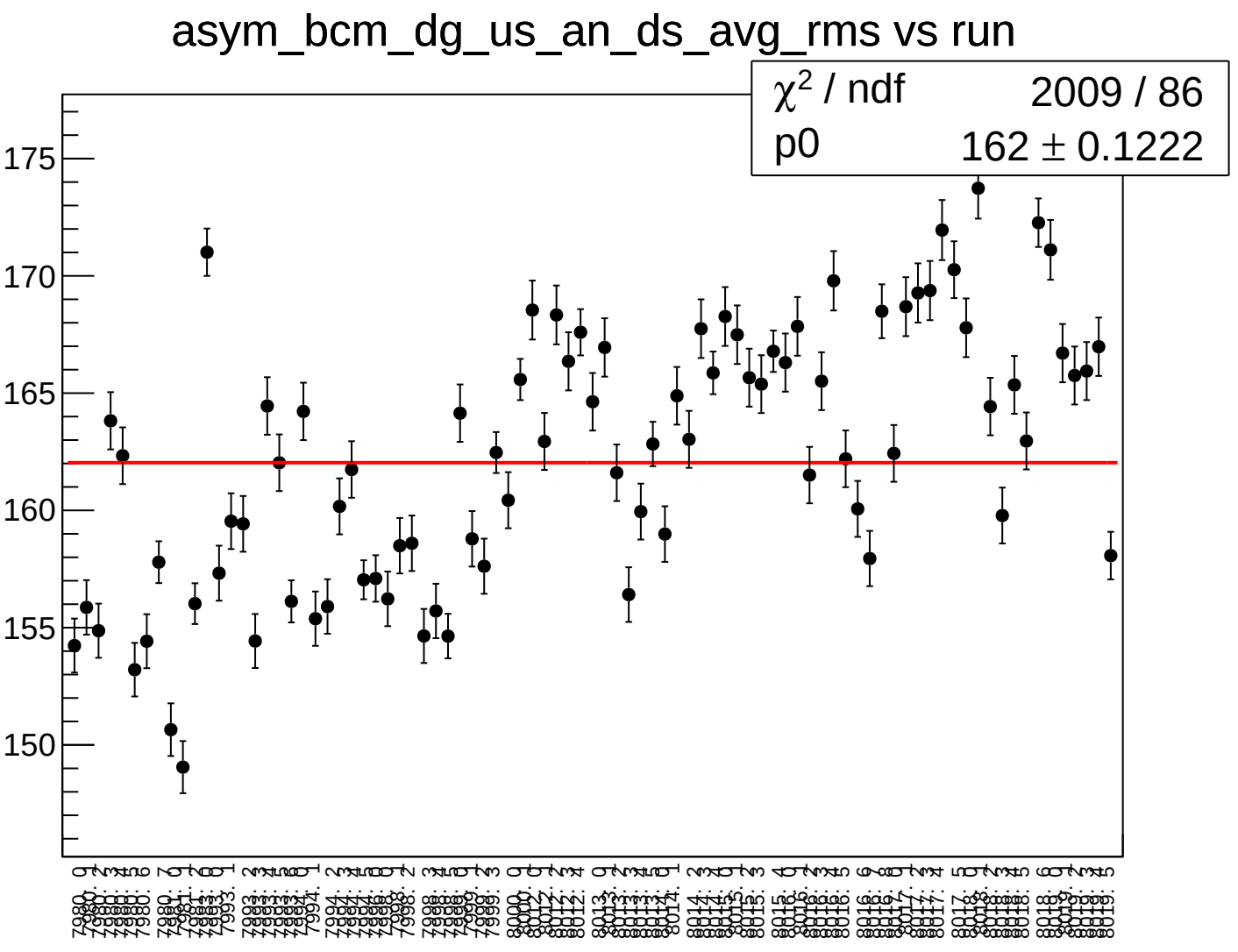

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 100.4 / 86
p0 −0.2727 ± 18.21
pull
Entries 87
Mean −1516
Std Dev 0

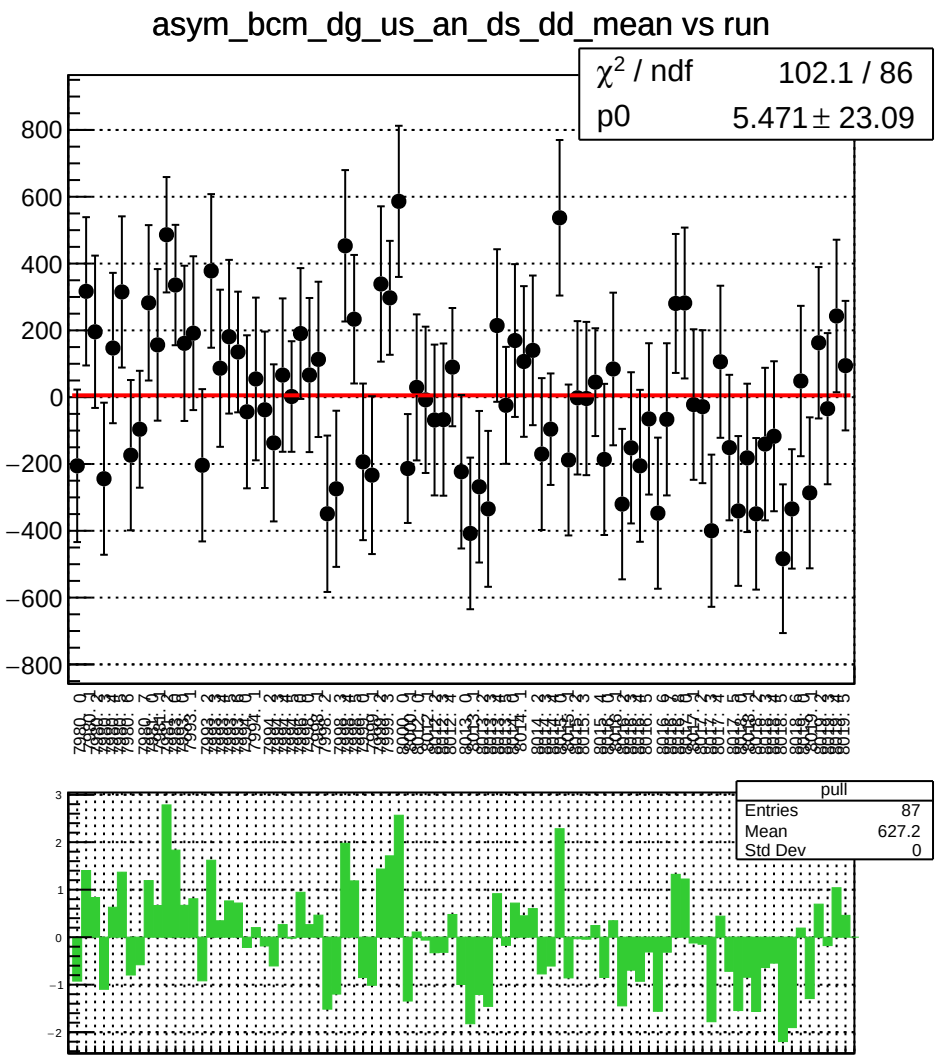

pull1D
Entries 87
Mean −0.002563
Std Dev 1.074

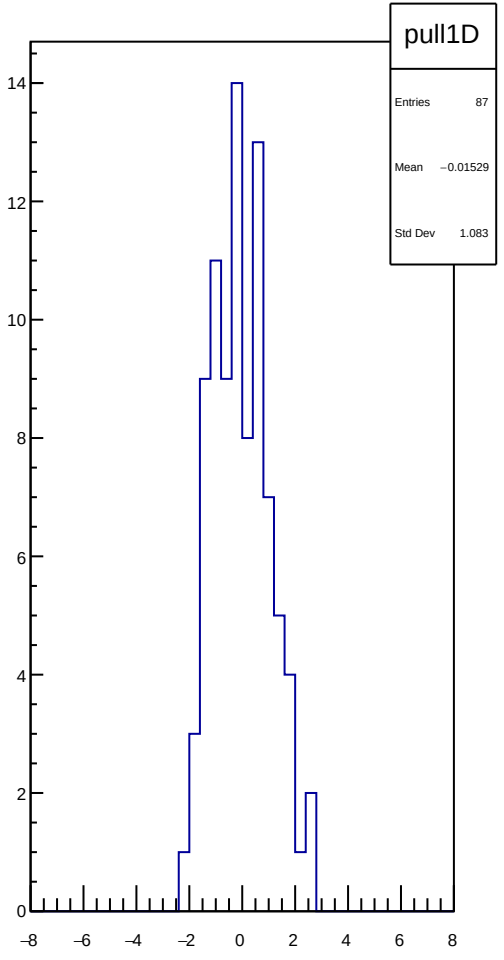

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 4962 / 86
p0 17.07 ± 0.01288
20
19
18
17
16
15

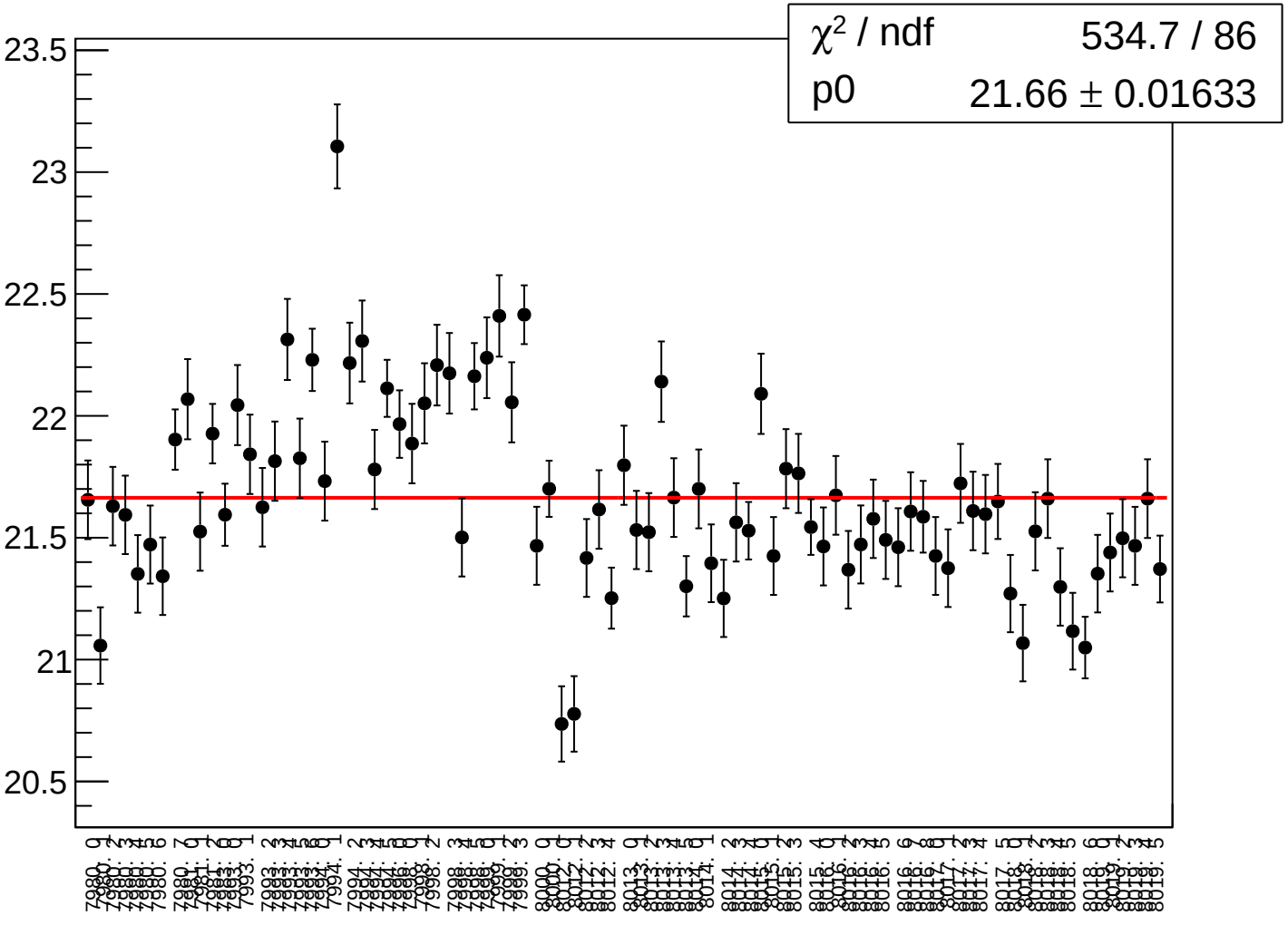

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 32.54 / 86
p0 −475.7 ± 172.8
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 83.63
Std Dev 35.3
1
0.5
0
−0.5
−1
−1.5
−2

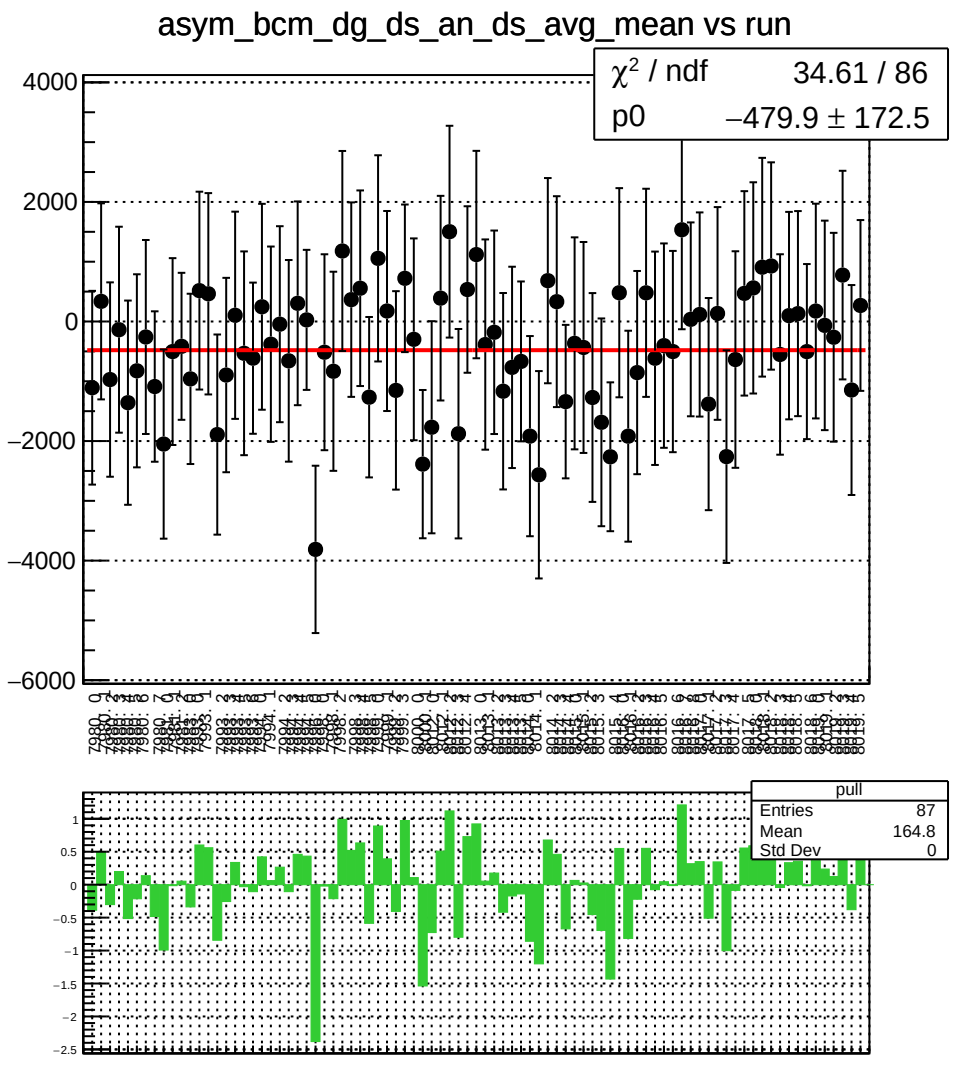

pull1D
Entries 87
Mean 0.01443
Std Dev 0.6114
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

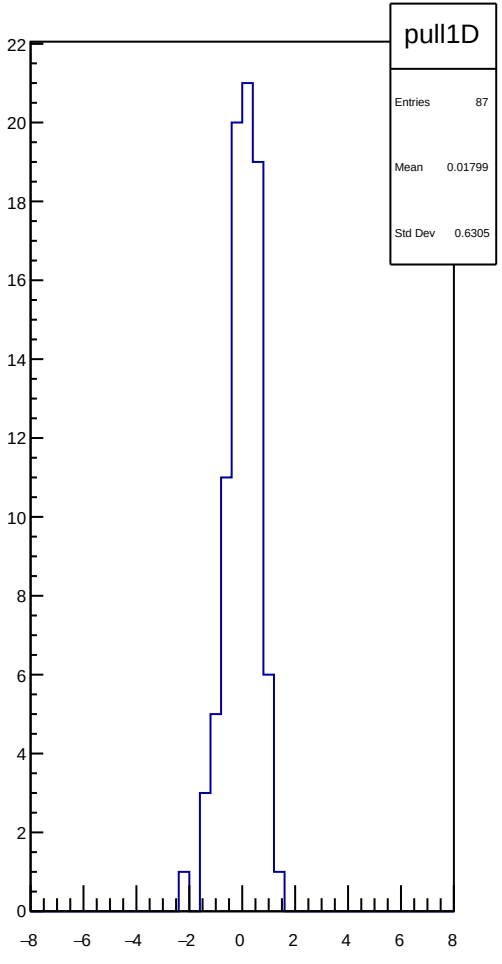

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 2009 / 86
p0 162 ± 0.1222
175
170
165
160
155
150

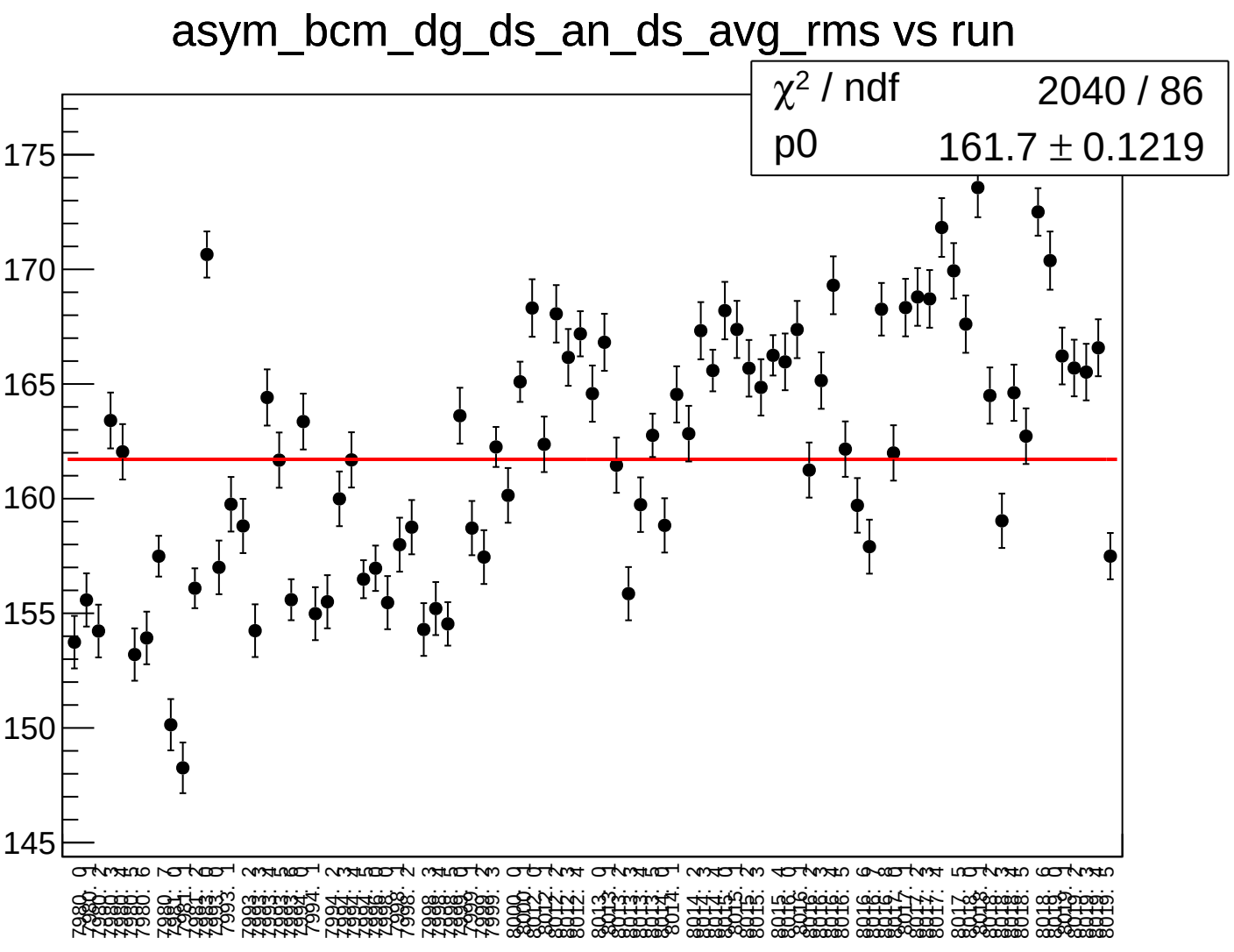

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 102.1 / 86
p0 5.471 ± 23.09
pull
Entries 87
Mean 627.2
Std Dev 0

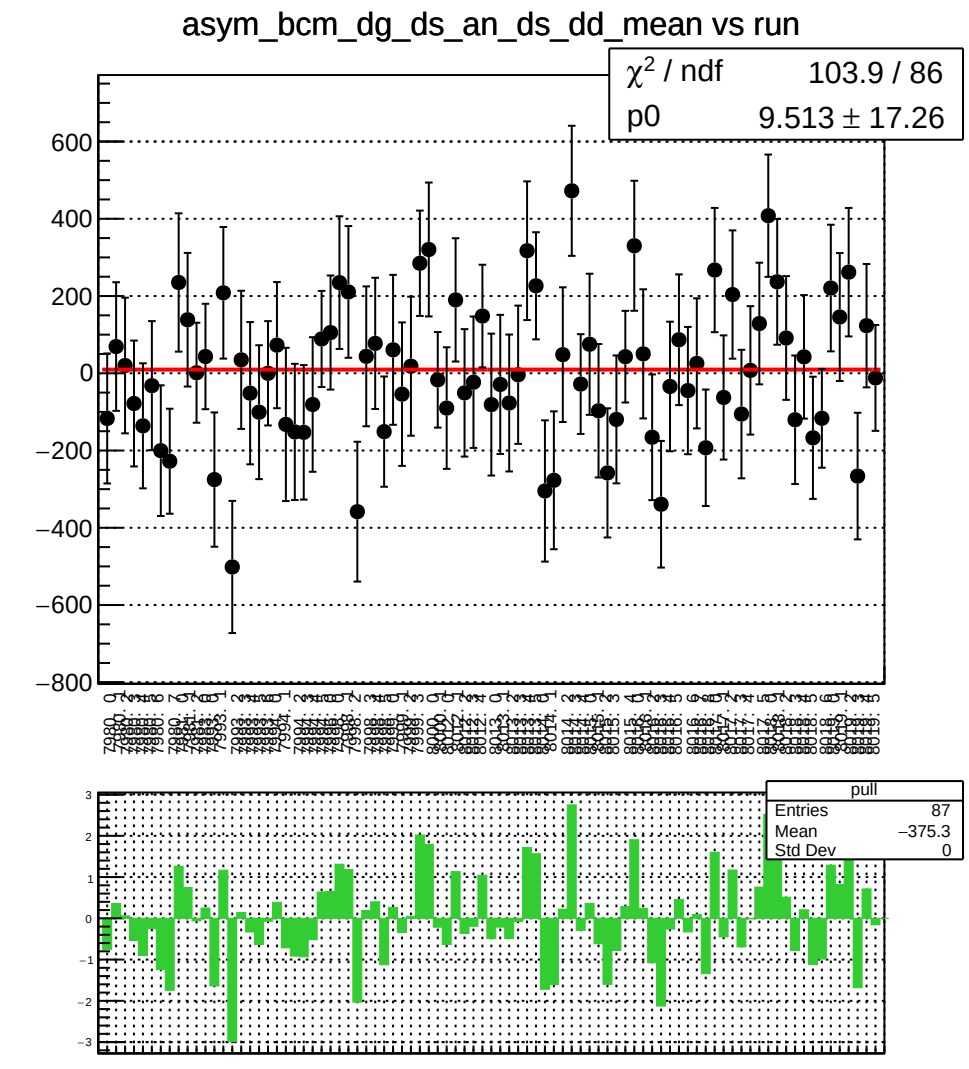

pull1D
Entries 87
Mean −0.01529
Std Dev 1.083

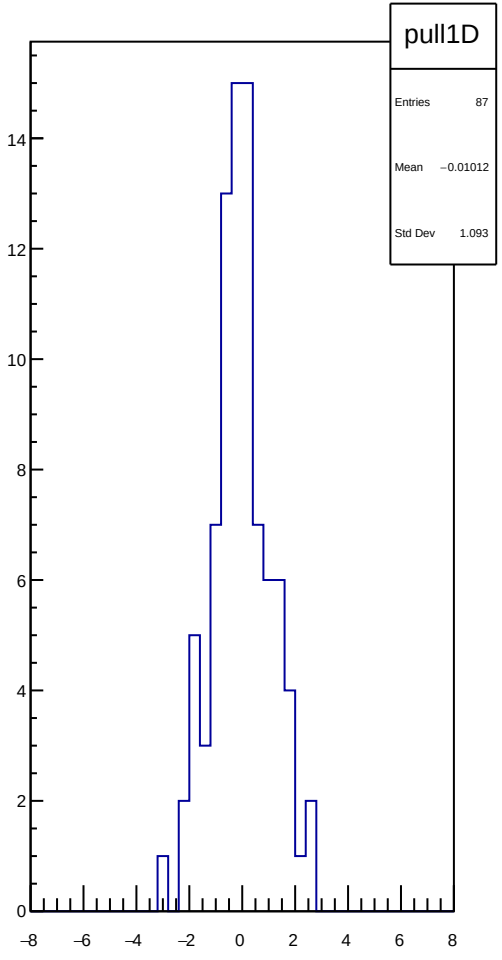

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 534.7 / 86
p0 21.66 ± 0.01633
23.5
23
22.5
22
21.5
21
20.5

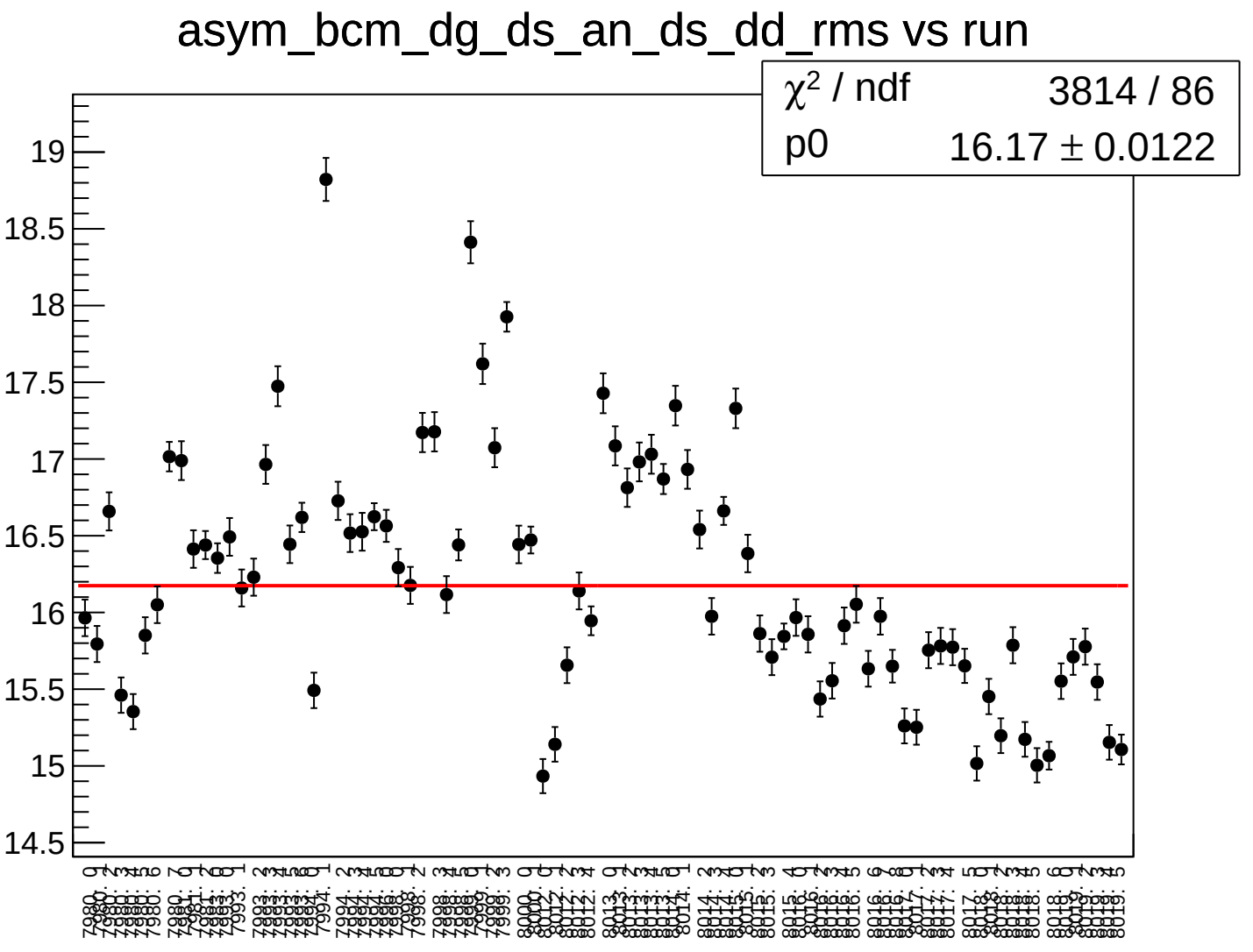

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 34.61 / 86
p0 −479.9 ± 172.5
pull
Entries 87
Mean 164.8
Std Dev 0

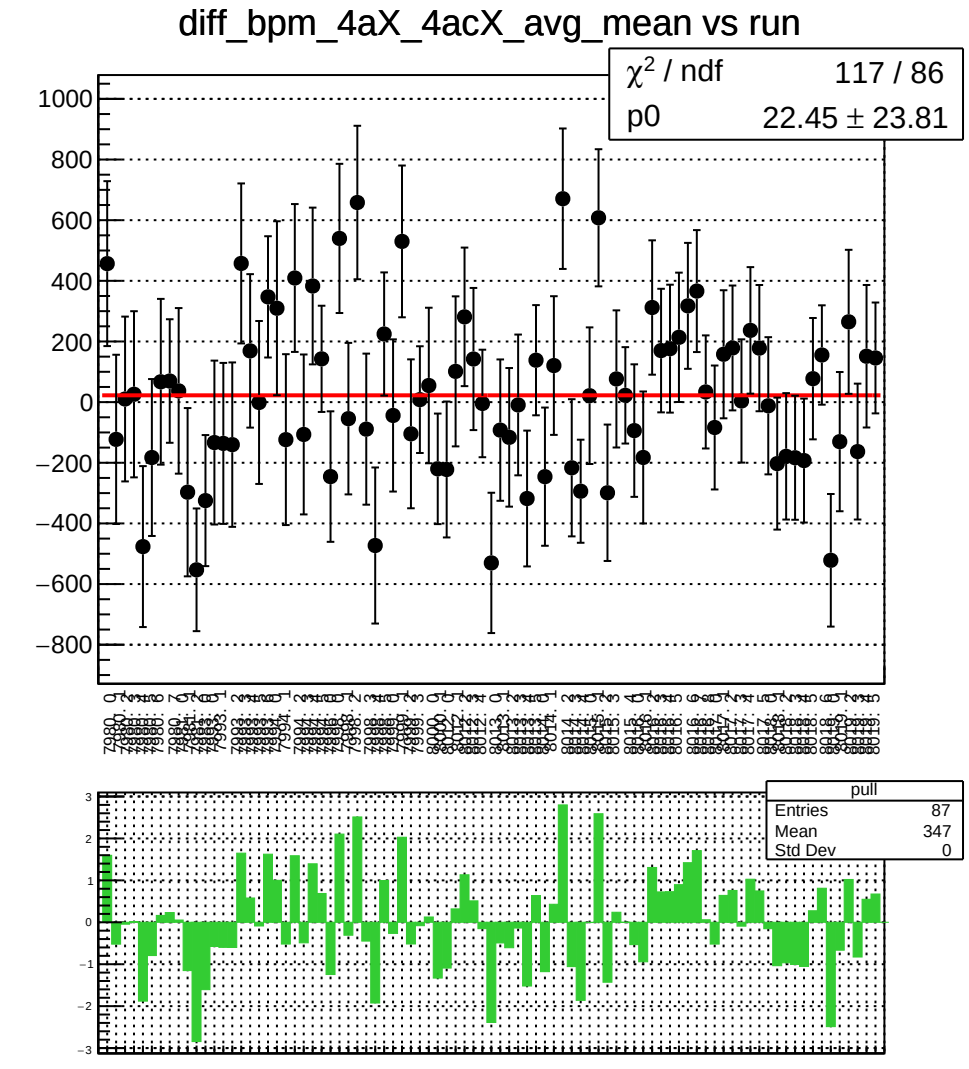

pull1D
Entries 87
Mean 0.01799
Std Dev 0.6305

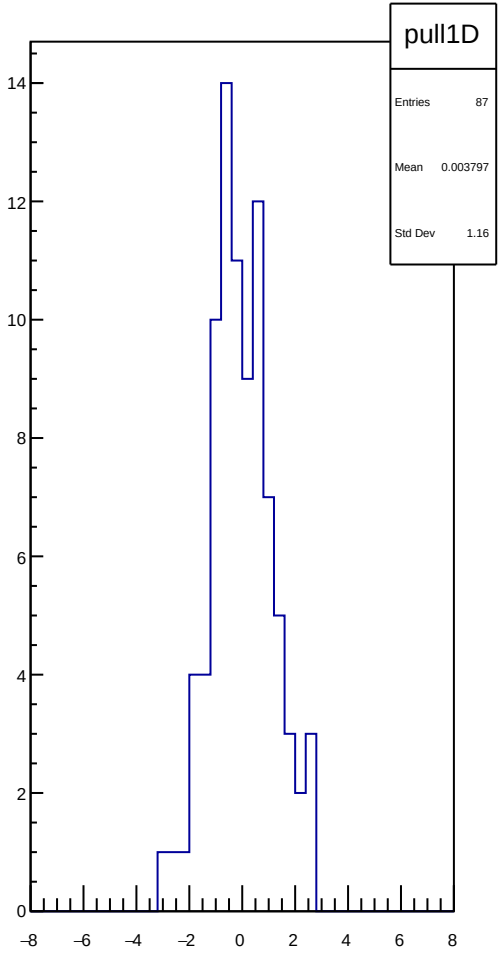

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 2040 / 86
p0 161.7 ± 0.1219
175
170
165
160
155
150
145

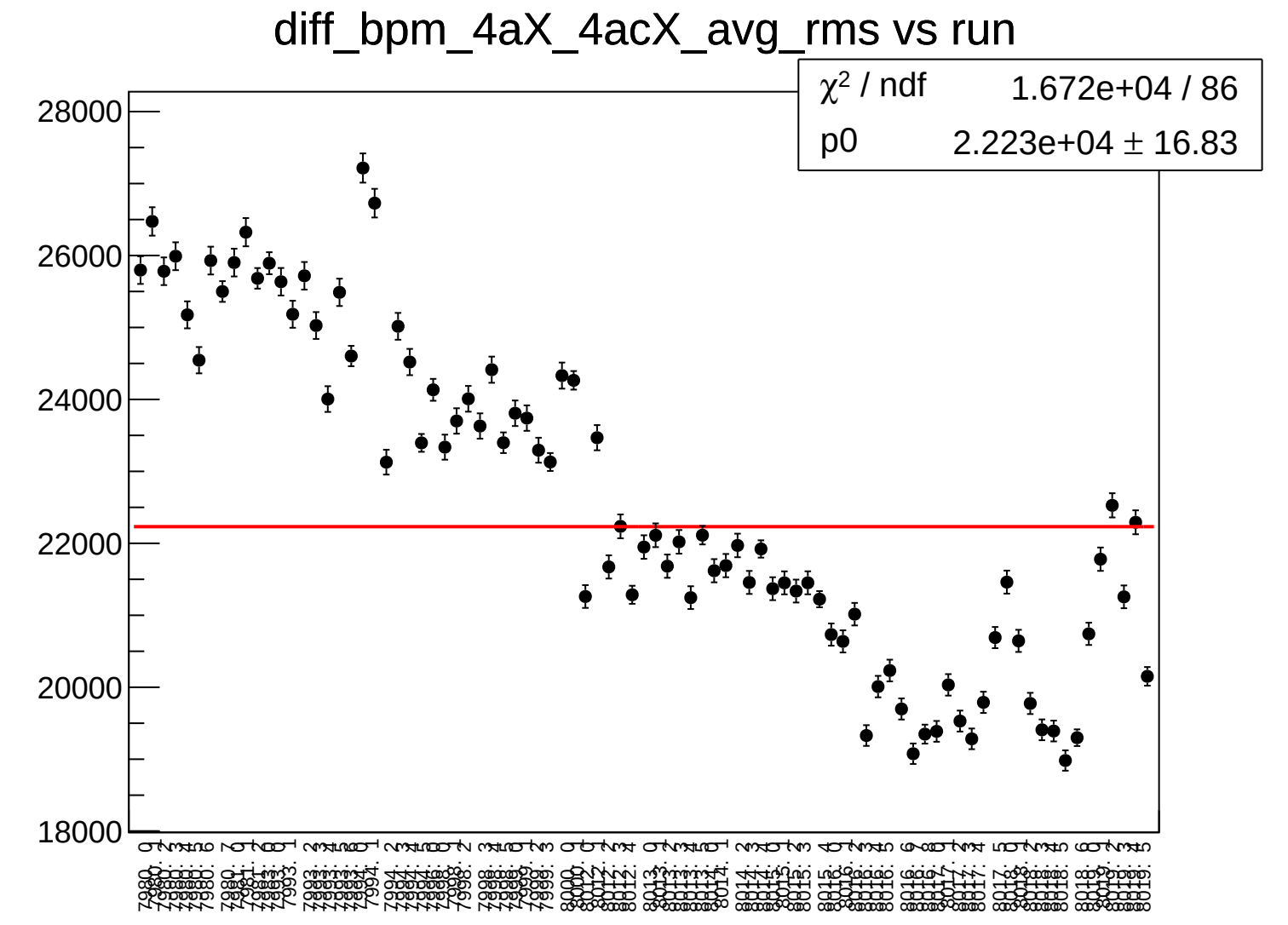

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 103.9 / 86
p0 9.513 ± 17.26
pull
Entries 87
Mean −375.3
Std Dev 0

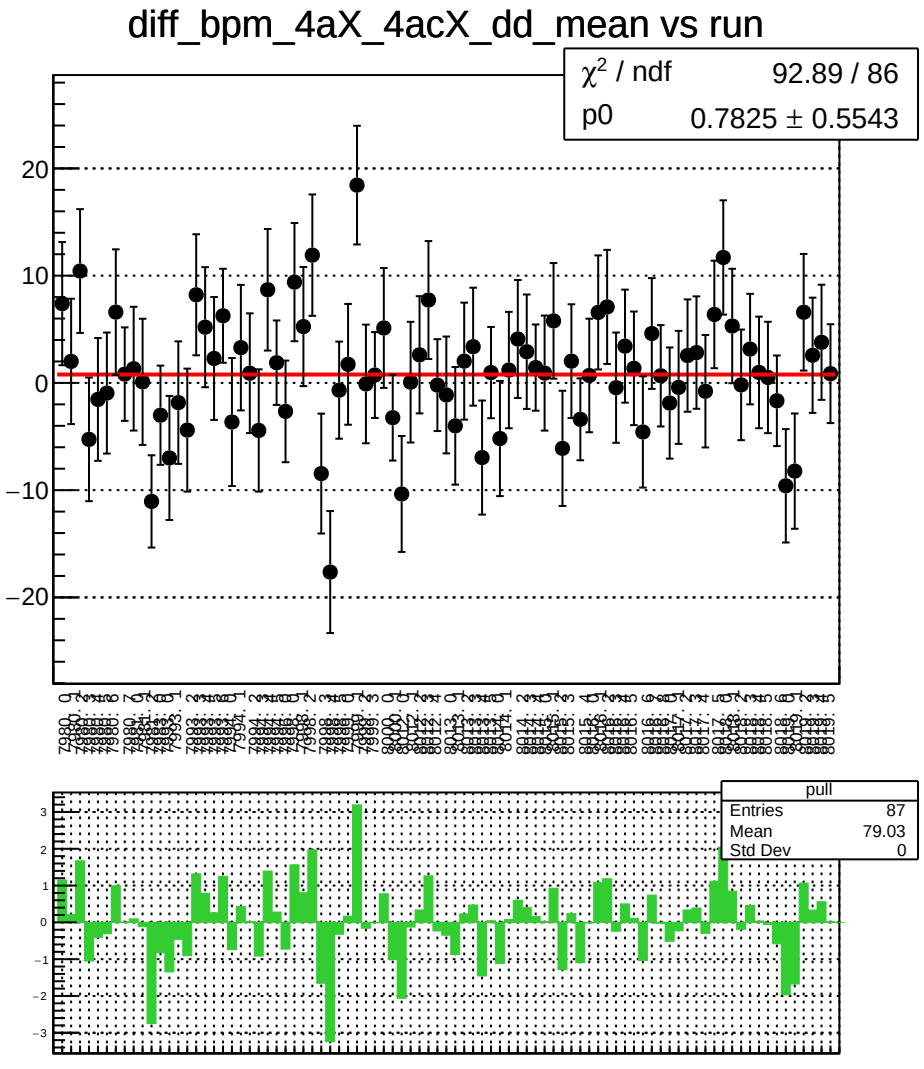

pull1D
Entries 87
Mean −0.01012
Std Dev 1.093

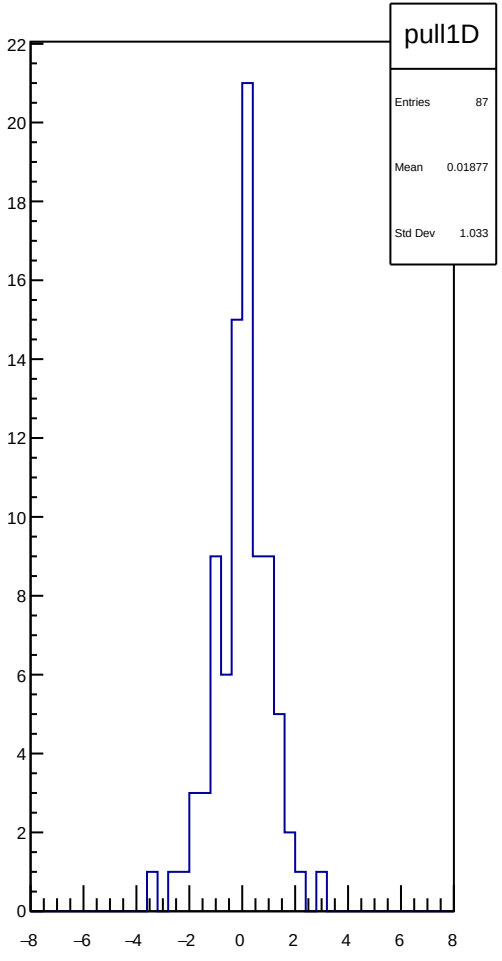

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 3814 / 86
p0 16.17 ± 0.0122
19
18.5
18
17.5
17
16.5
16
15.5
15
14.5

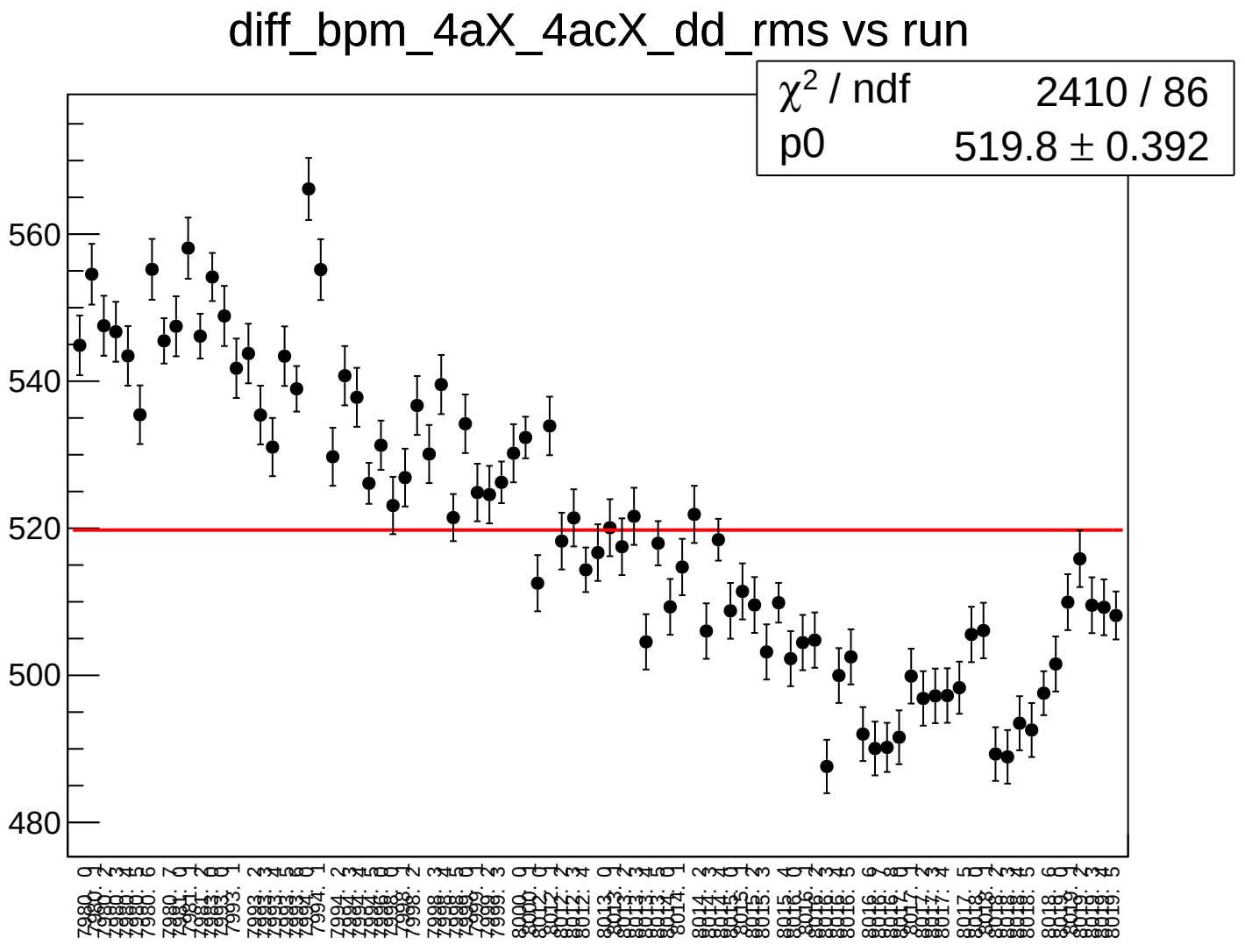

diff_bpm_4aX_4acX_avg_mean vs run
χ^2 / ndf 117 / 86
p0 22.45 ± 23.81
pull
Entries 87
Mean 347
Std Dev 0

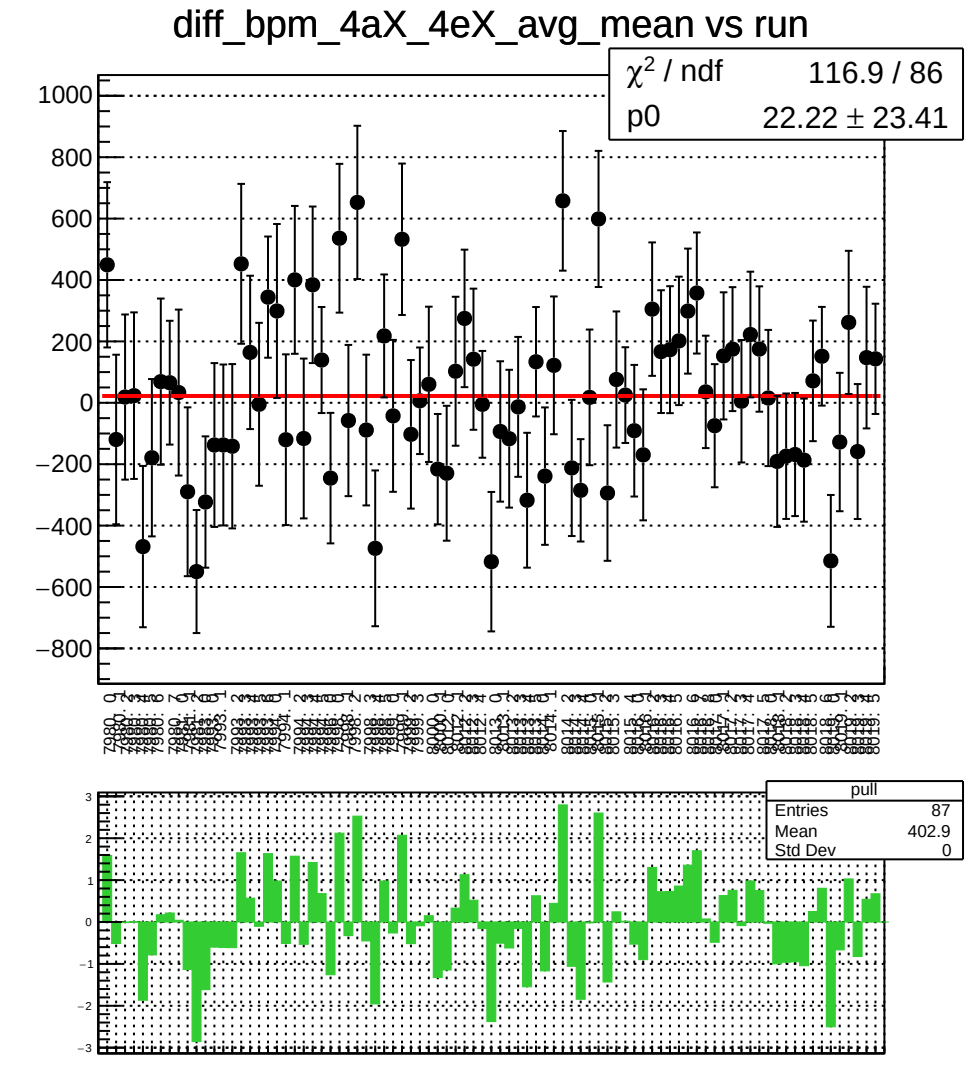

pull1D
Entries 87
Mean 0.003797
Std Dev 1.16

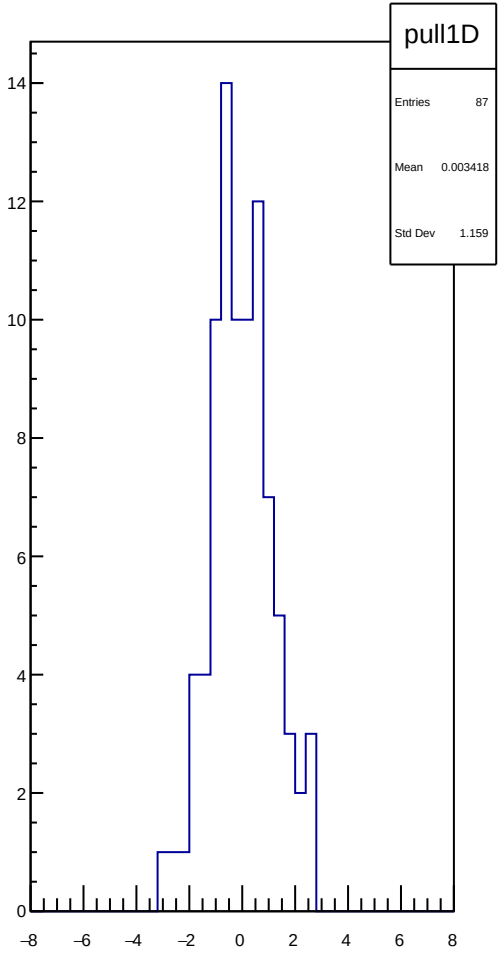

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 1.672e+04 / 86
p0 2.223e+04 ± 16.83
28000
26000
24000
22000
20000
18000

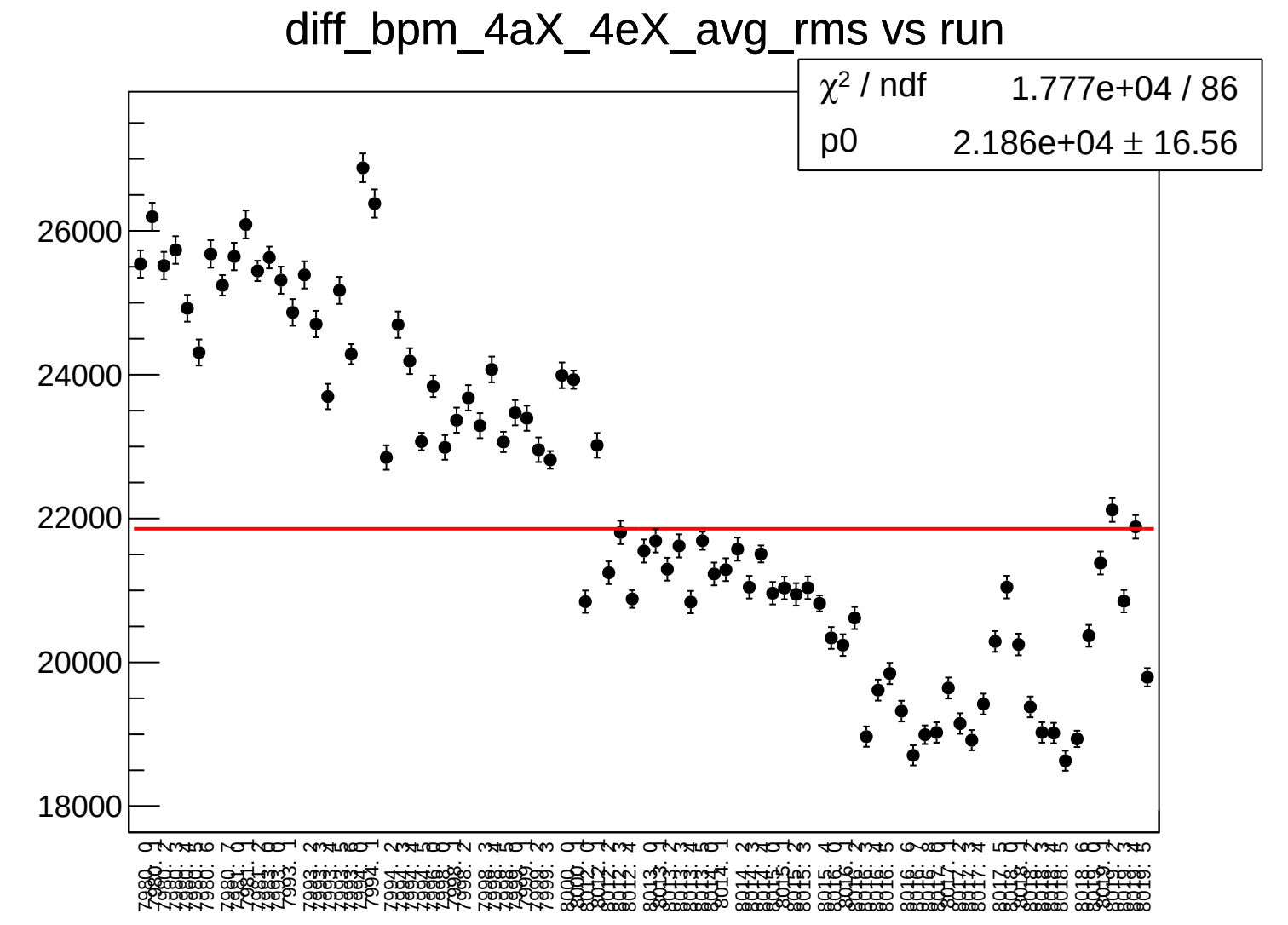

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 92.89 / 86
p0 0.7825 ± 0.5543
pull
Entries 87
Mean 79.03
Std Dev 0

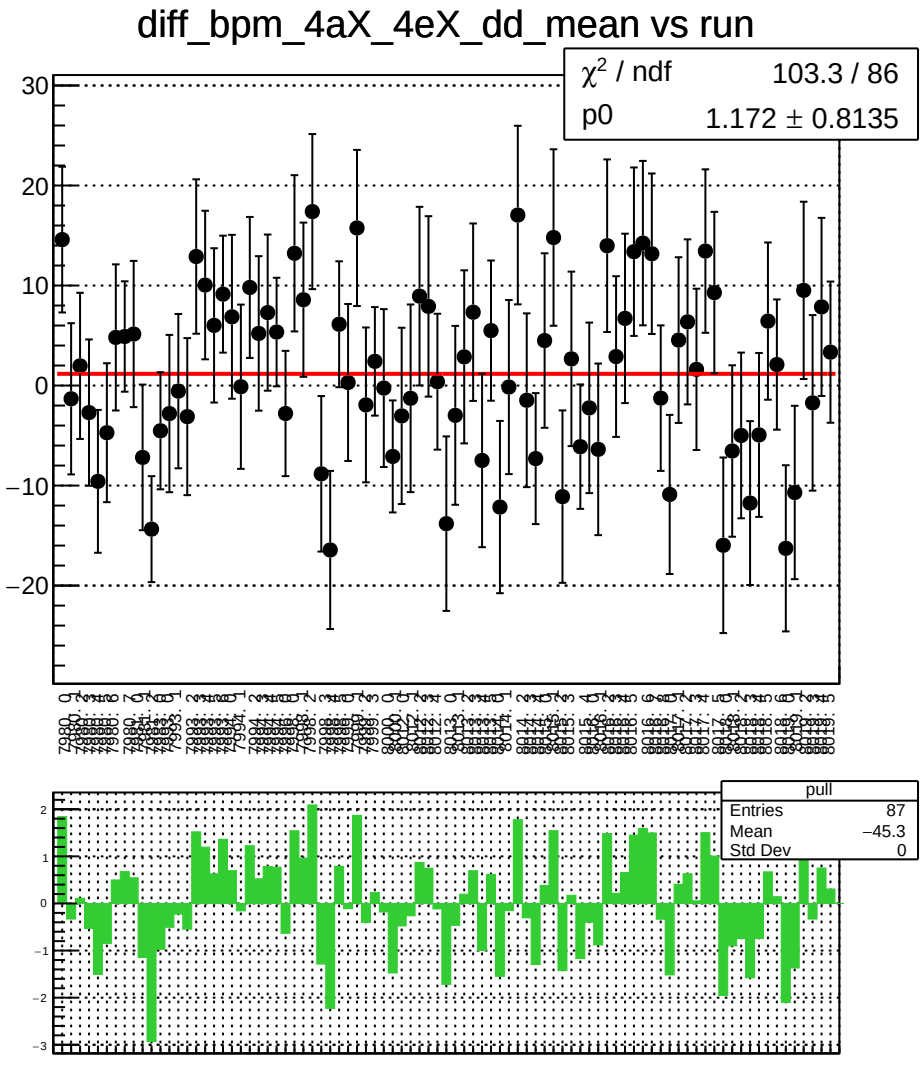

pull1D
Entries 87
Mean 0.01877
Std Dev 1.033

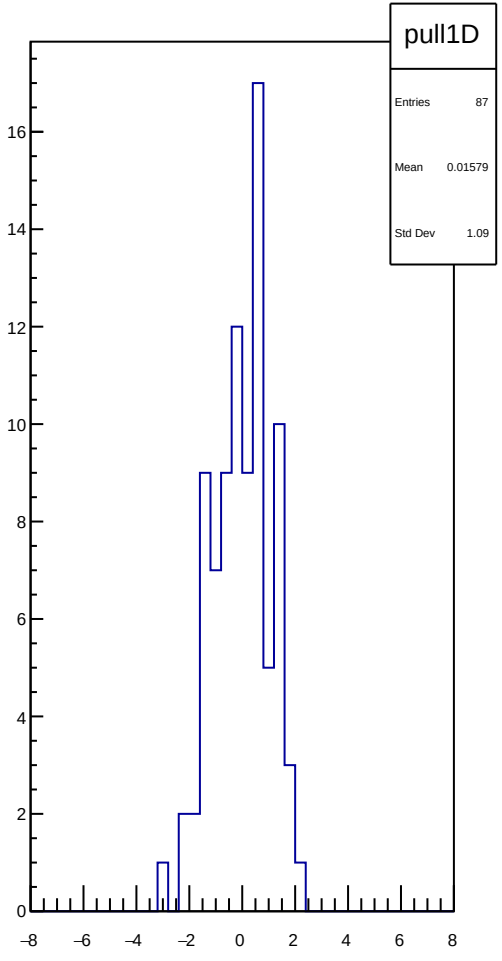

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 2410 / 86
p0 519.8 ± 0.392
560
540
520
500
480

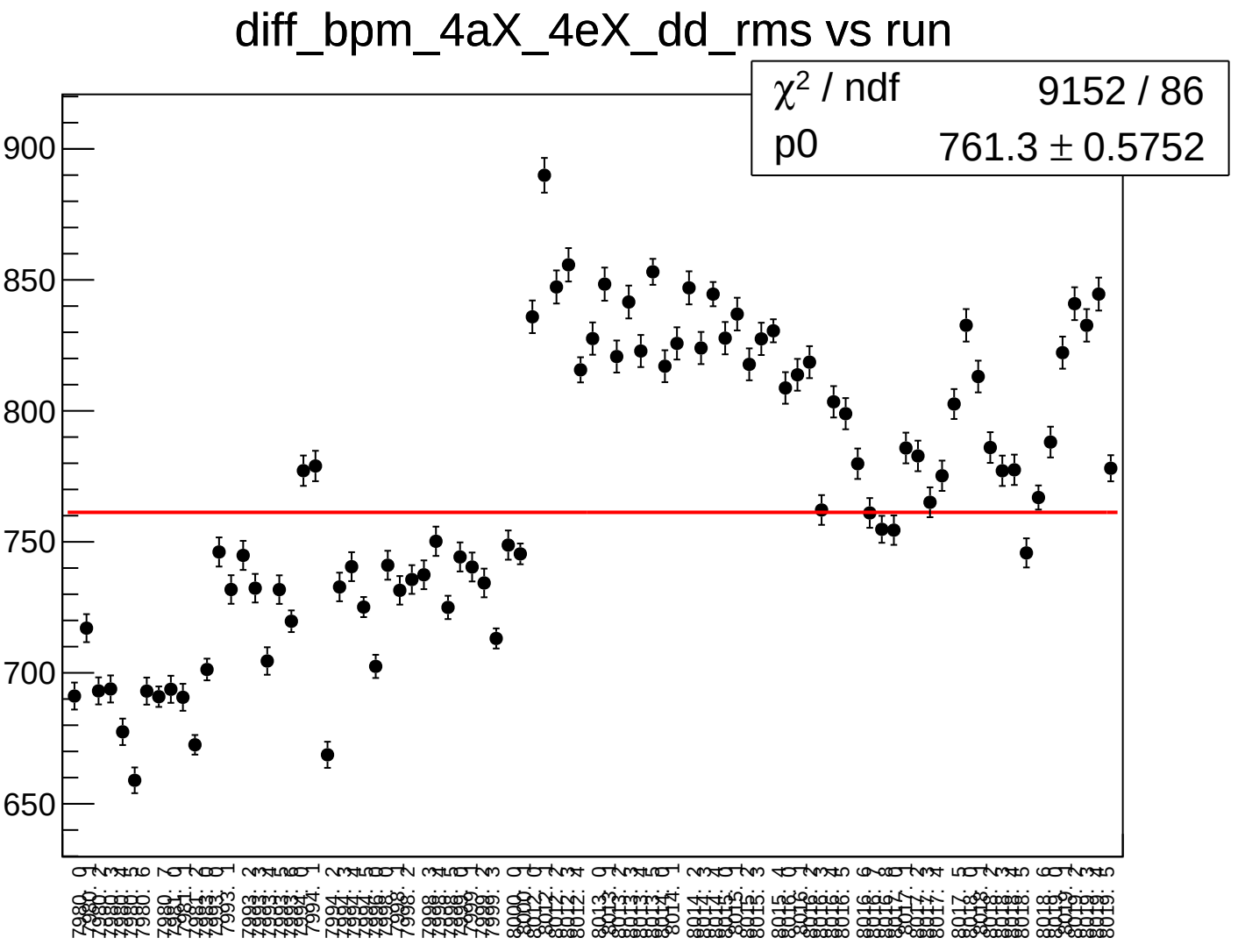

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 116.9 / 86
p0 22.22 ± 23.41
pull
Entries 87
Mean 402.9
Std Dev 0

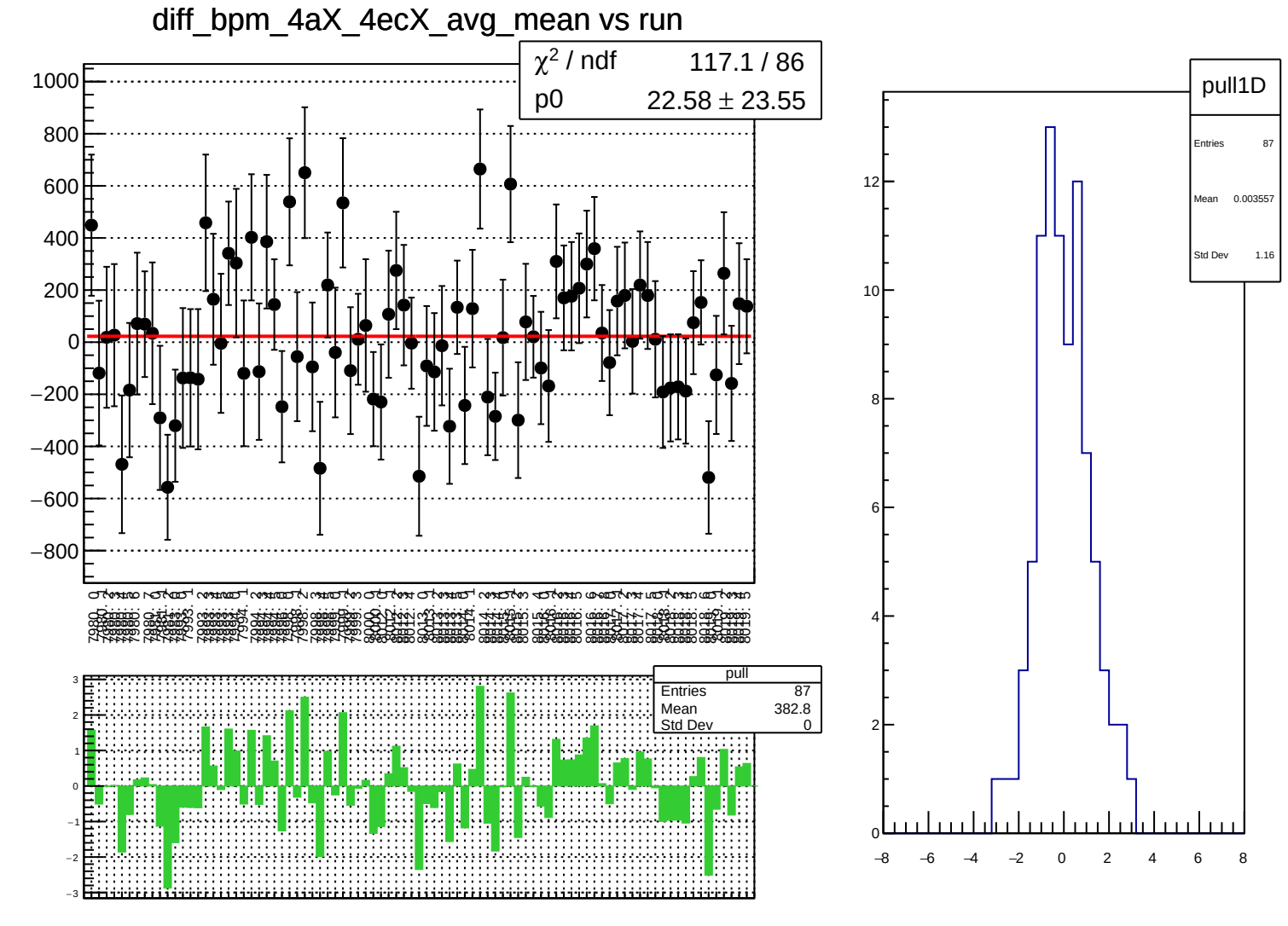

pull1D
Entries 87
Mean 0.003418
Std Dev 1.159

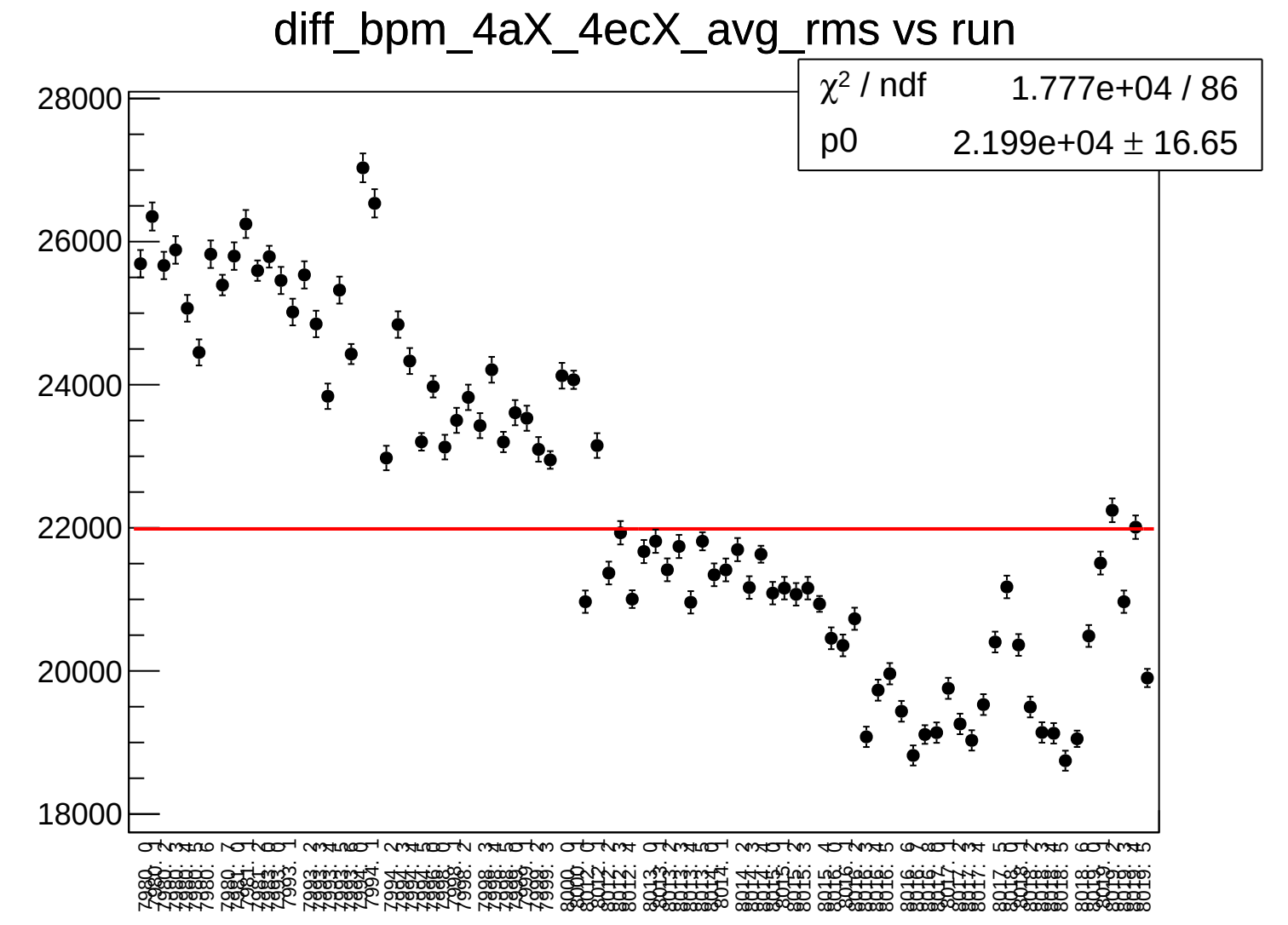

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.777e+04 / 86
p0 2.186e+04 ± 16.56
26000
24000
22000
20000
18000

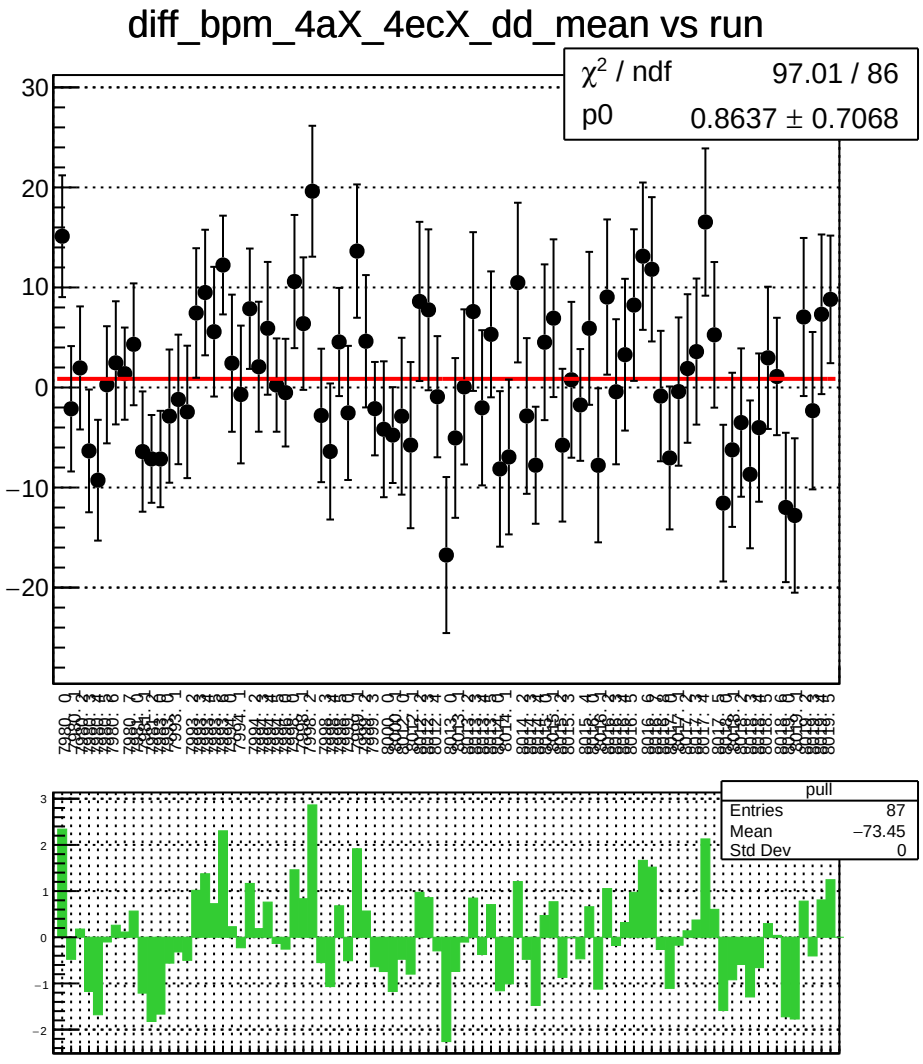

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 103.3 / 86
p0 1.172 ± 0.8135
pull
Entries 87
Mean −45.3
Std Dev 0

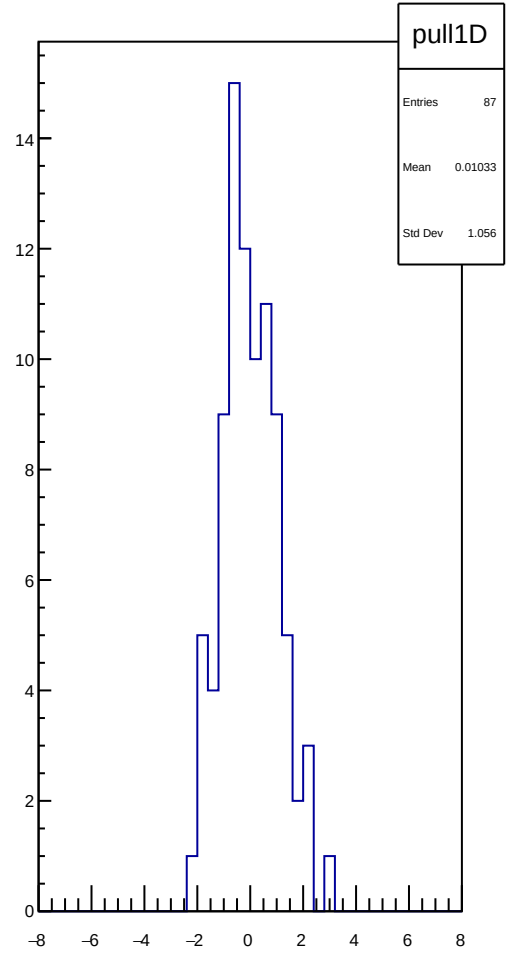

pull1D
Entries 87
Mean 0.01579
Std Dev 1.09

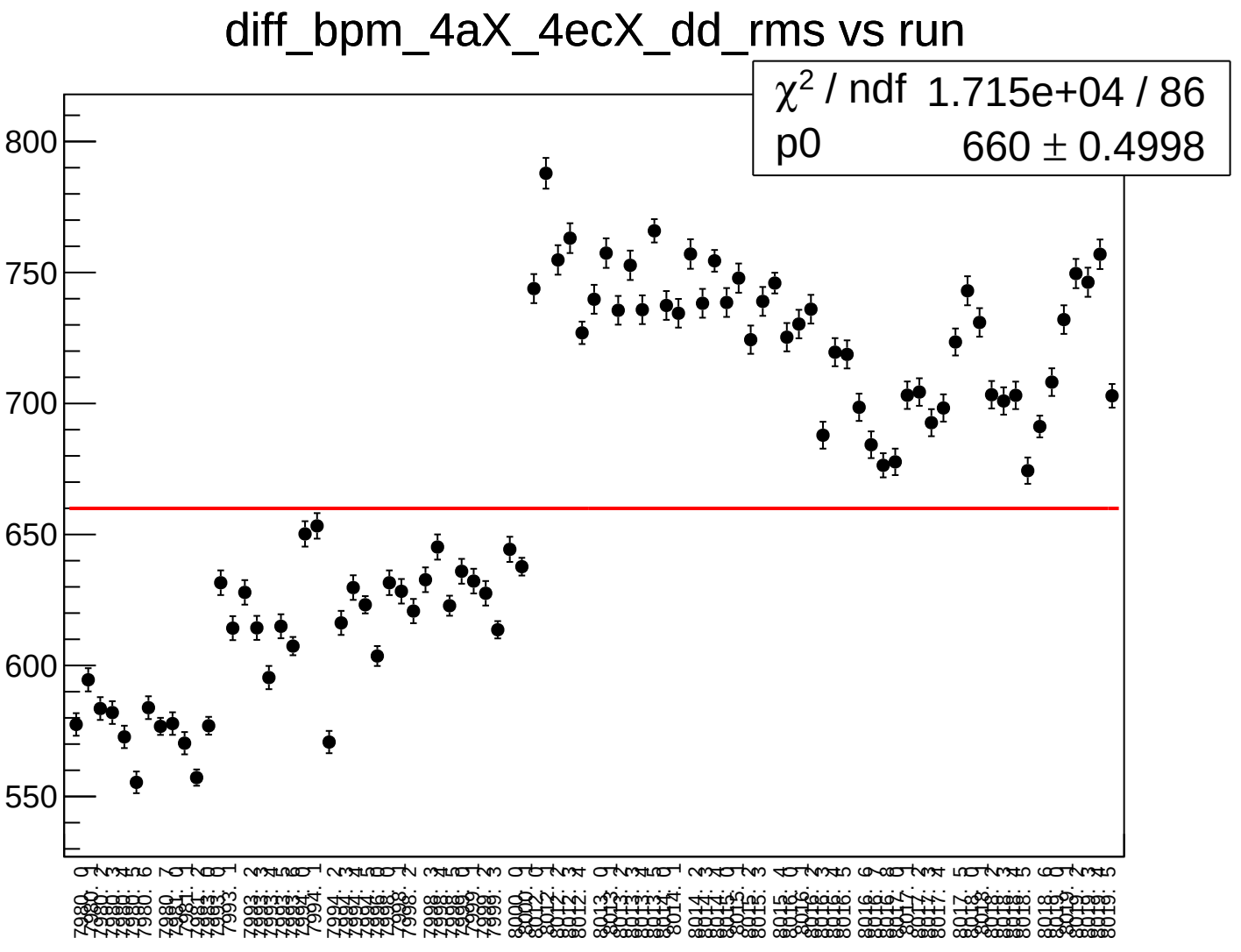

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 9152 / 86
p0 761.3 ± 0.5752
900
850
800
750
700
650

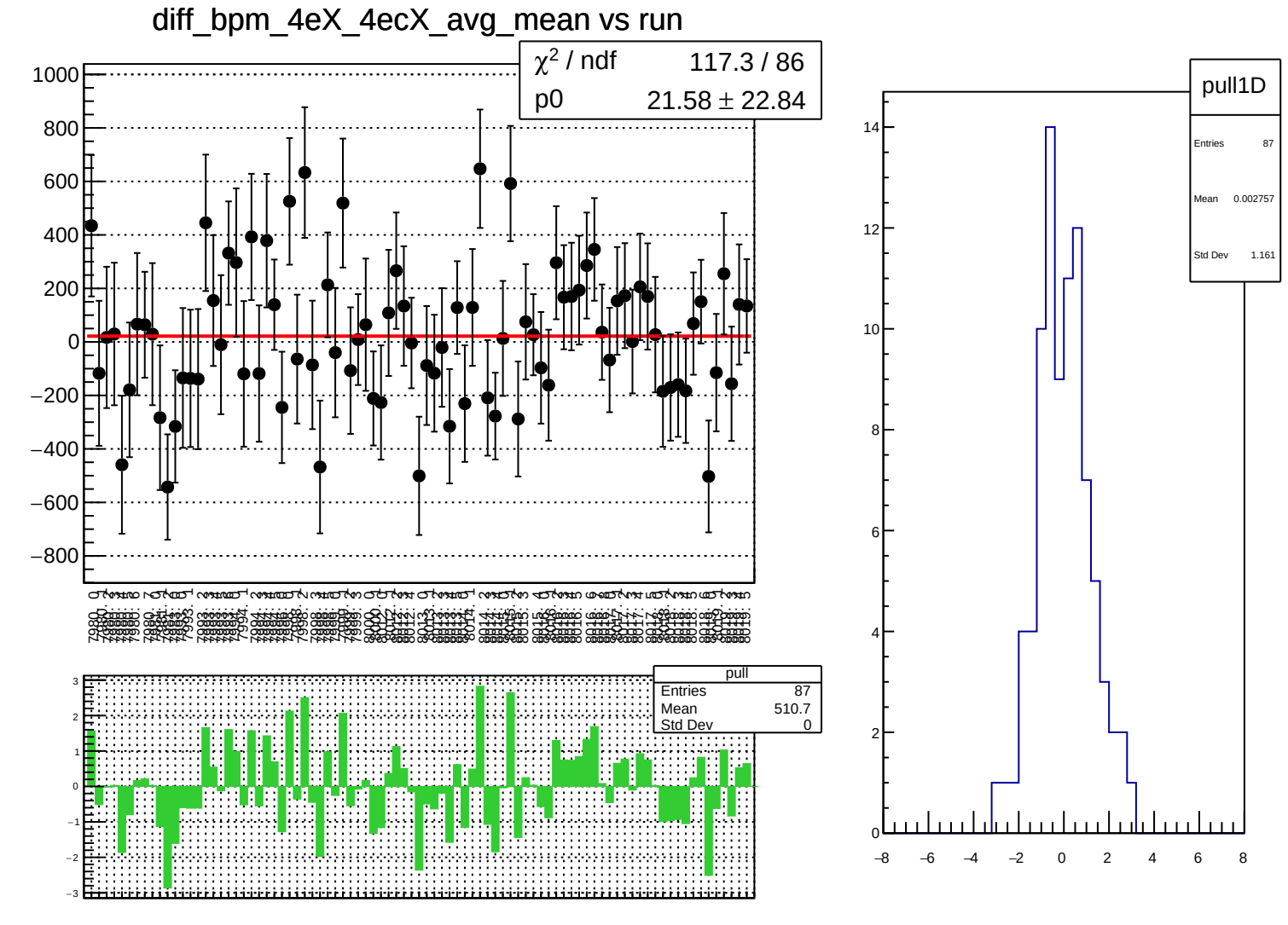

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 117.1 / 86
p0 22.58 ± 23.55
pull
Entries 87
Mean 382.8
Std Dev 0
pull1D
Entries 87
Mean 0.003557
Std Dev 1.16

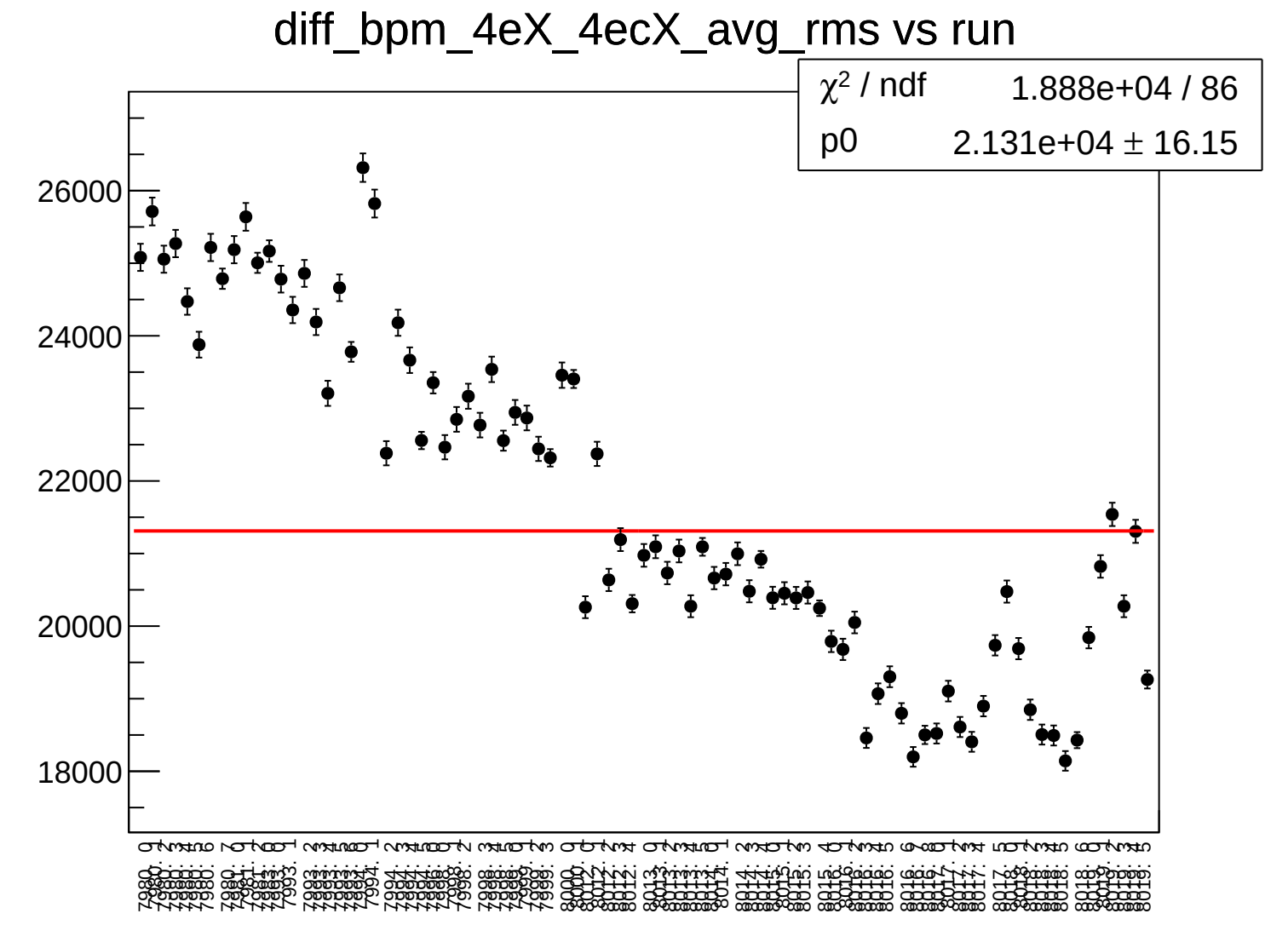

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.777e+04 / 86
p0 2.199e+04 ± 16.65
28000
26000
24000
22000
20000
18000

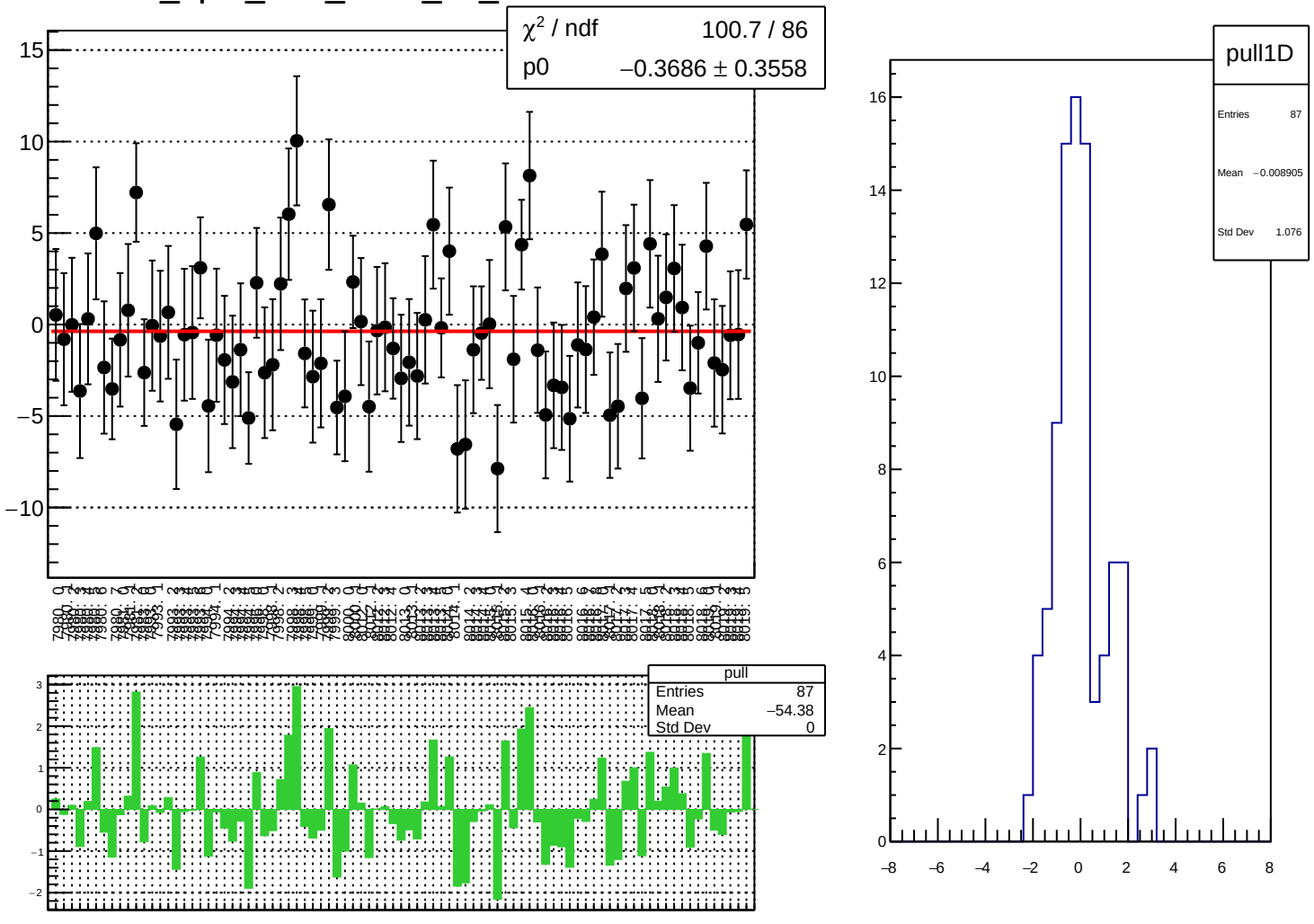

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 97.01 / 86
p0 0.8637 ± 0.7068
pull
Entries 87
Mean −73.45
Std Dev 0

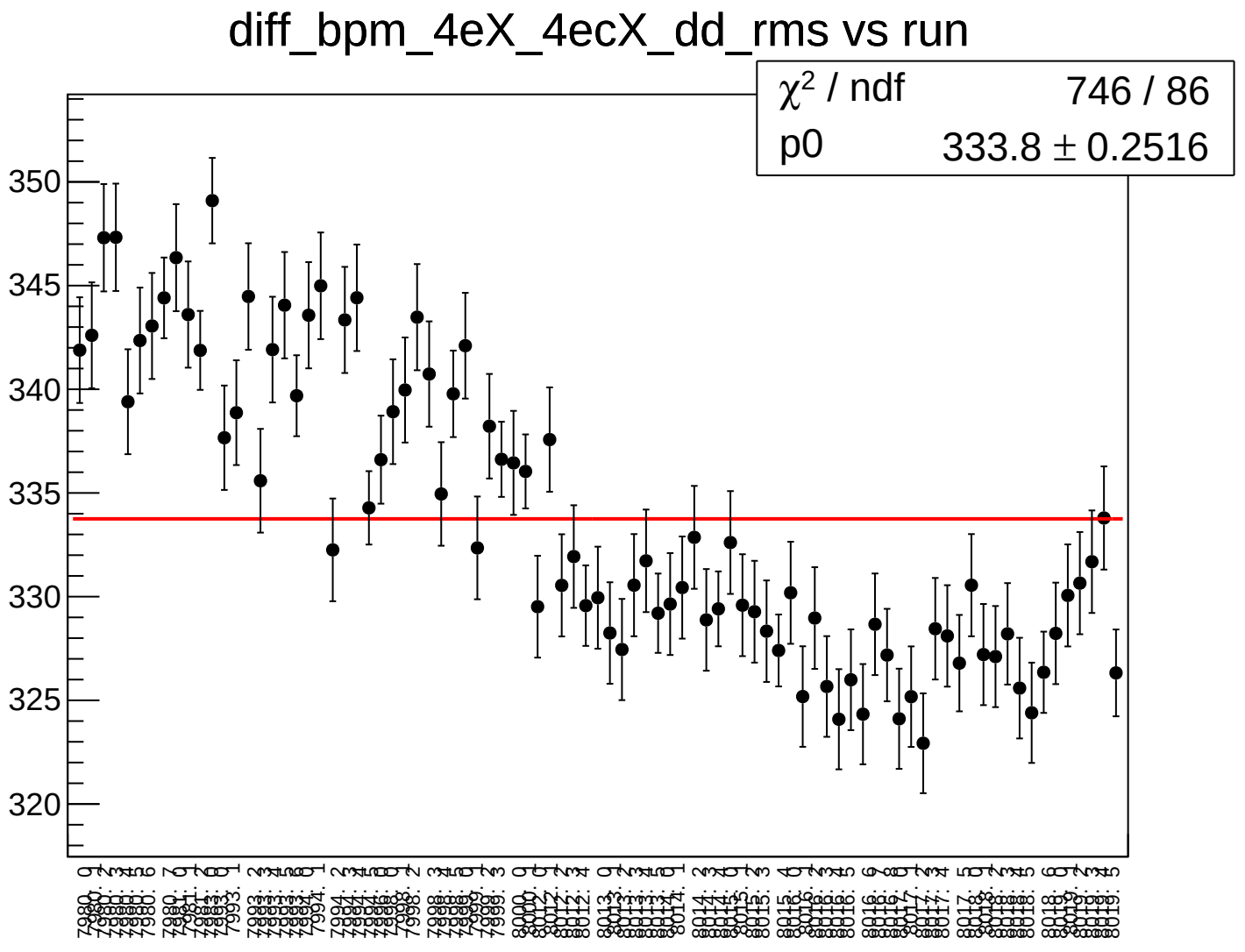

pull1D
Entries 87
Mean 0.01033
Std Dev 1.056

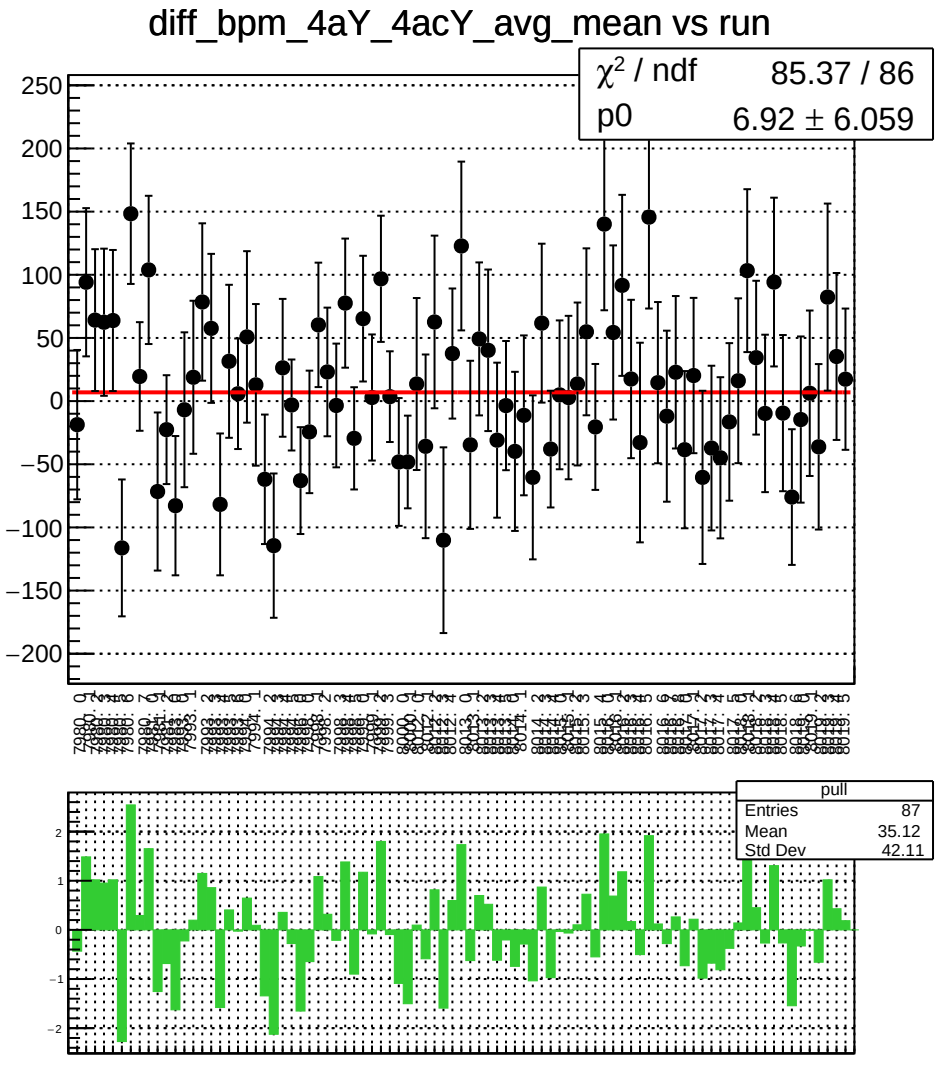

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1.715e+04 / 86
p0 660 ± 0.4998
800
750
700
650
600
550

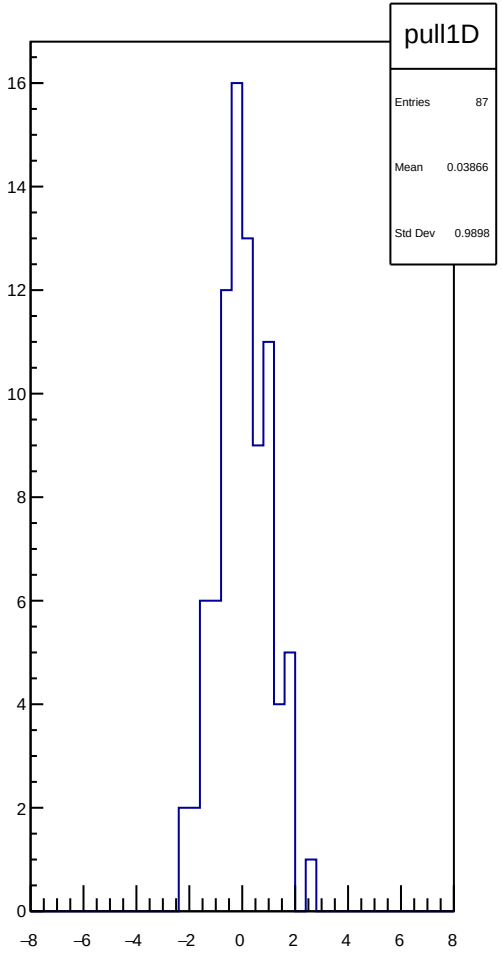

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 117.3 / 86
p0 21.58 ± 22.84
pull
Entries 87
Mean 510.7
Std Dev 0
pull1D
Entries 87
Mean 0.002757
Std Dev 1.161

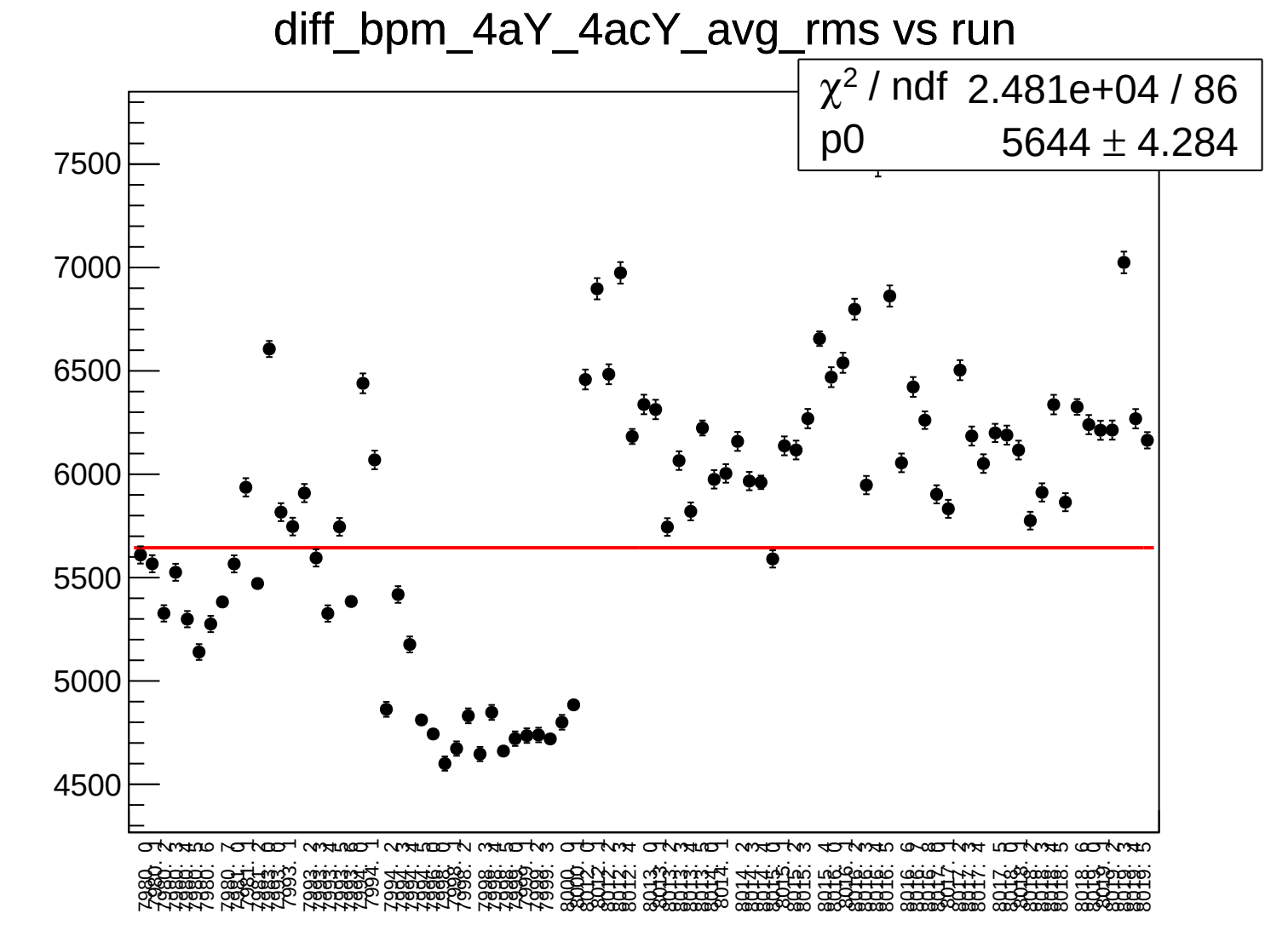

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.888e+04 / 86
p0 2.131e+04 ± 16.15
26000
24000
22000
20000
18000

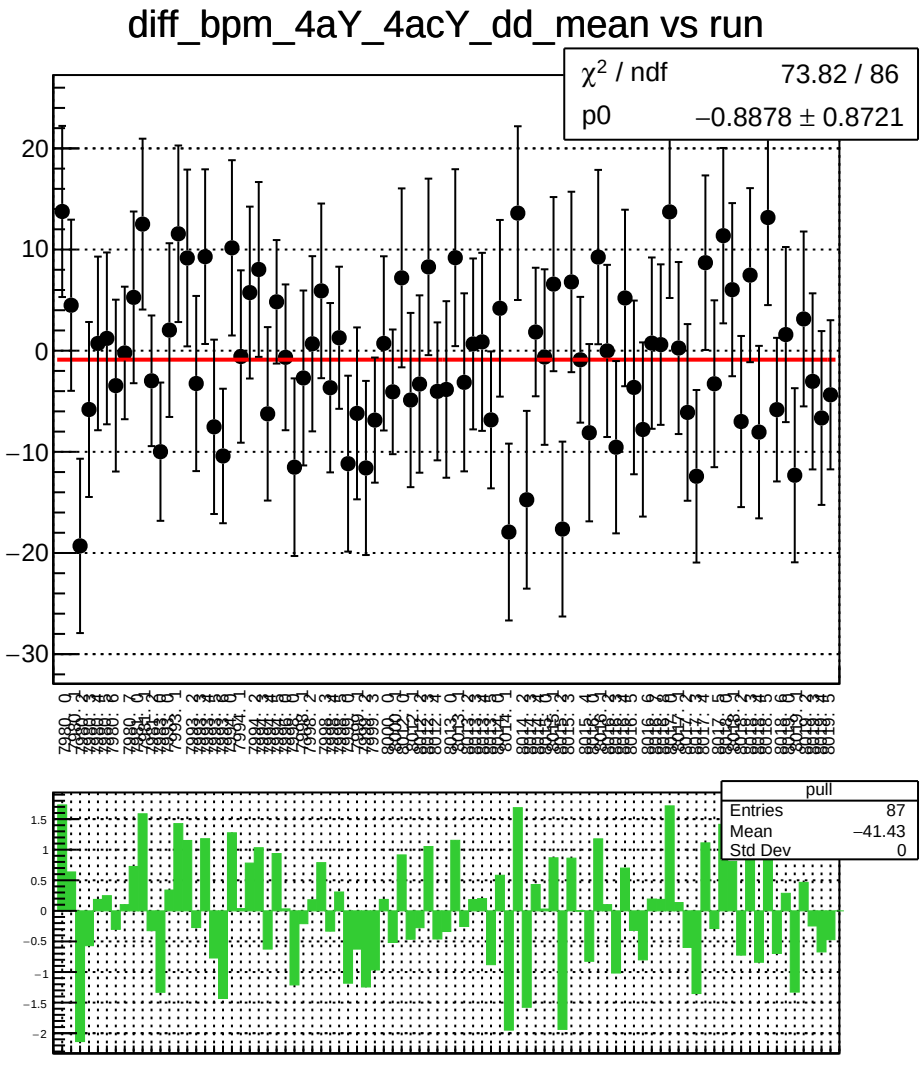

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 100.7 / 86
p0 −0.3686 ± 0.3558
pull
Entries 87
Mean −54.38
Std Dev 0
pull1D
Entries 87
Mean −0.008905
Std Dev 1.076

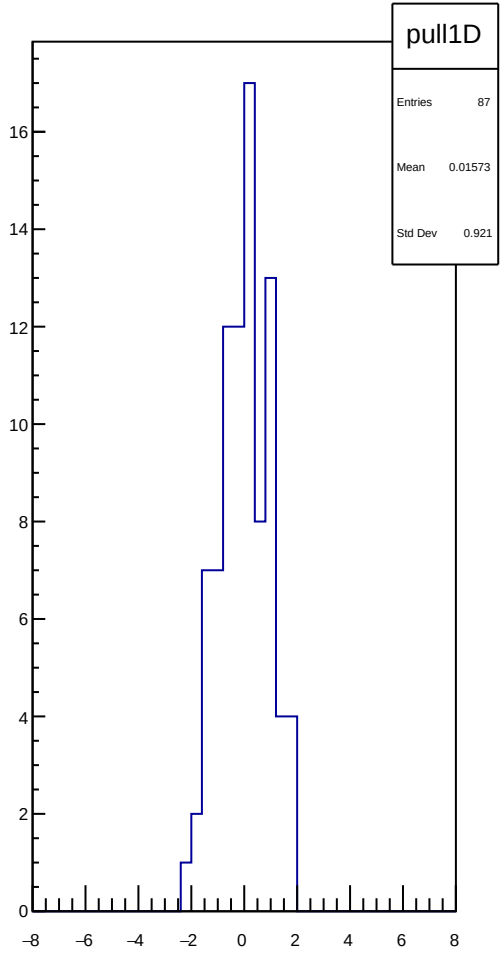

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 746 / 86
p0 333.8 ± 0.2516
350
345
340
335
330
325
320

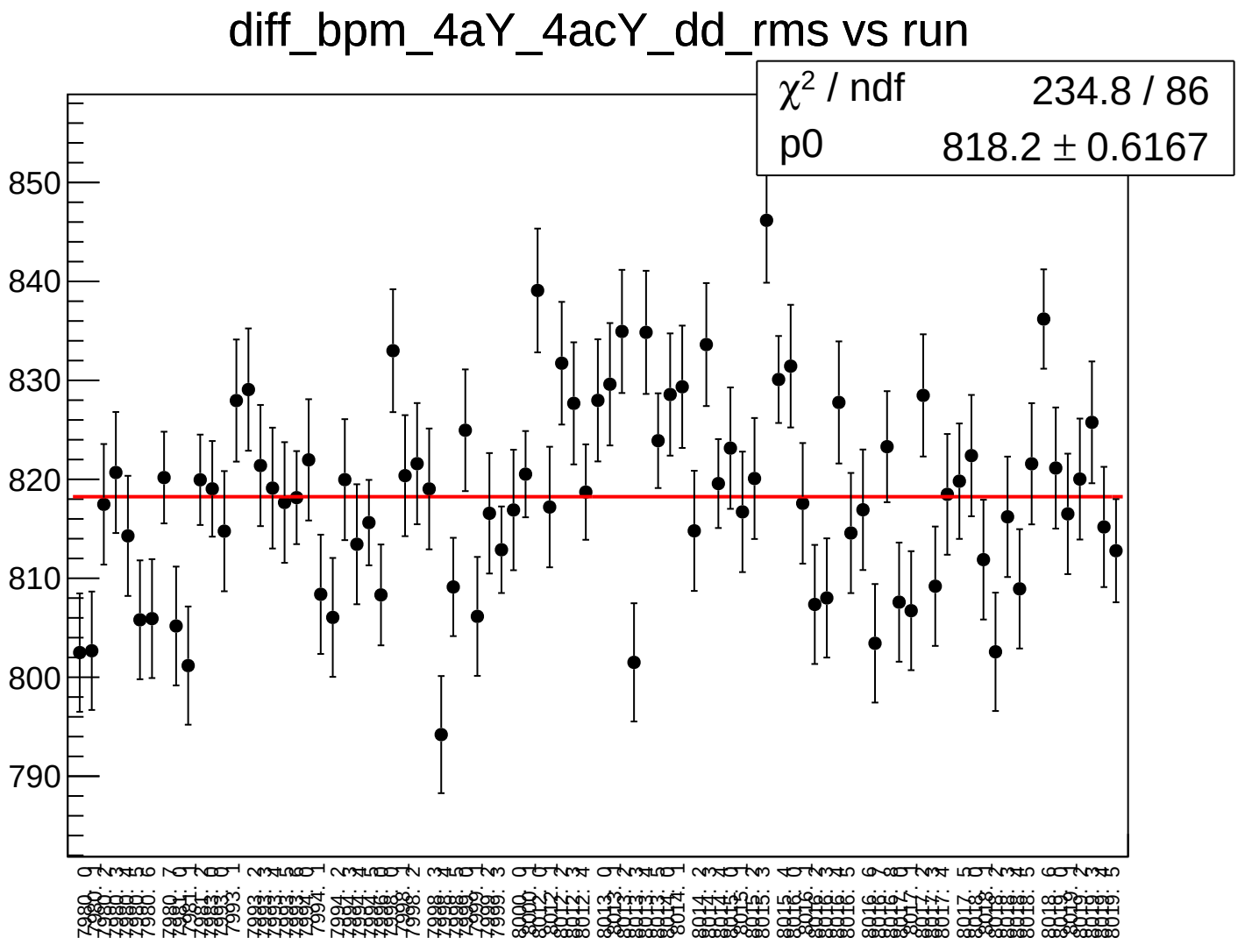

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 85.37 / 86
p0 6.92 ± 6.059
pull
Entries 87
Mean 35.12
Std Dev 42.11

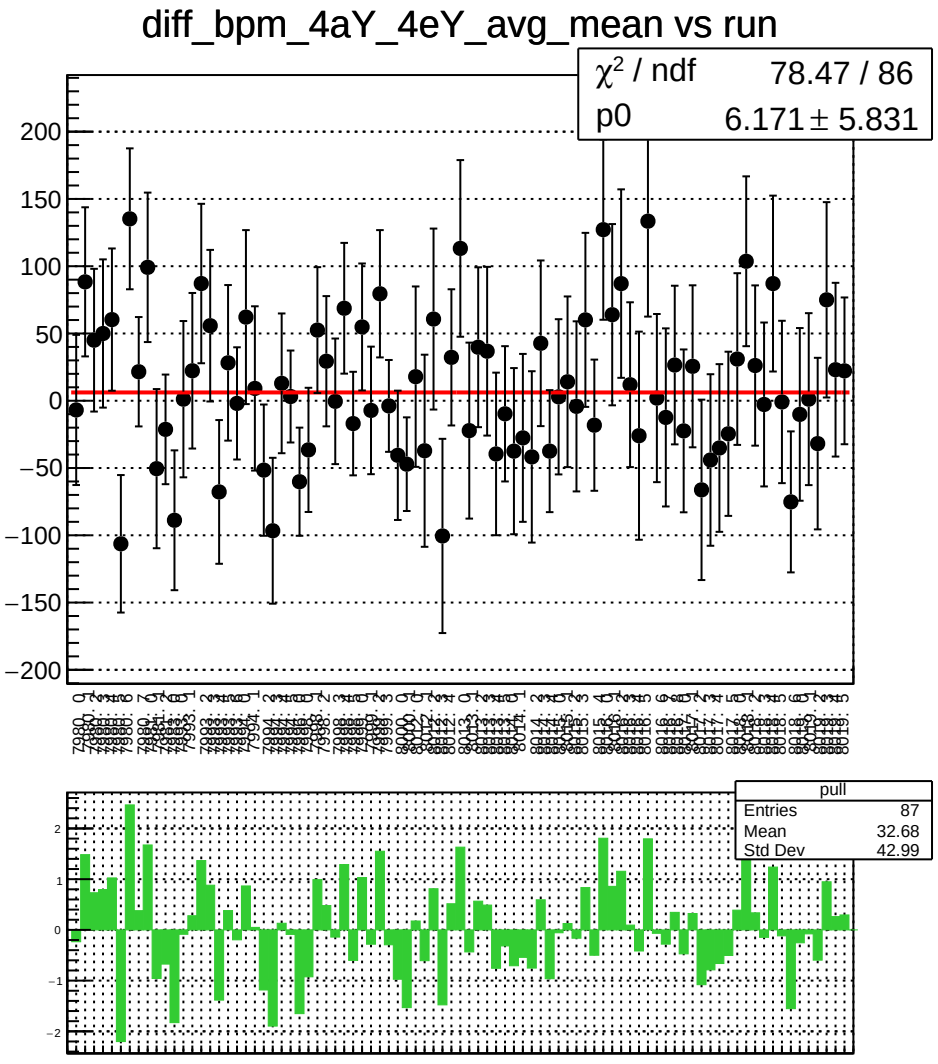

pull1D
Entries 87
Mean 0.03866
Std Dev 0.9898

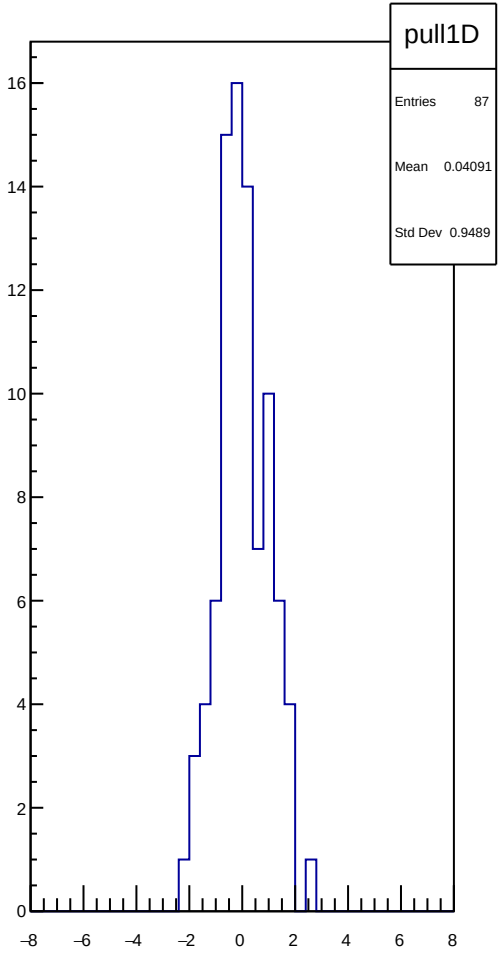

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 2.481e+04 / 86
p0 5644 ± 4.284
7500
7000
6500
6000
5500
5000
4500

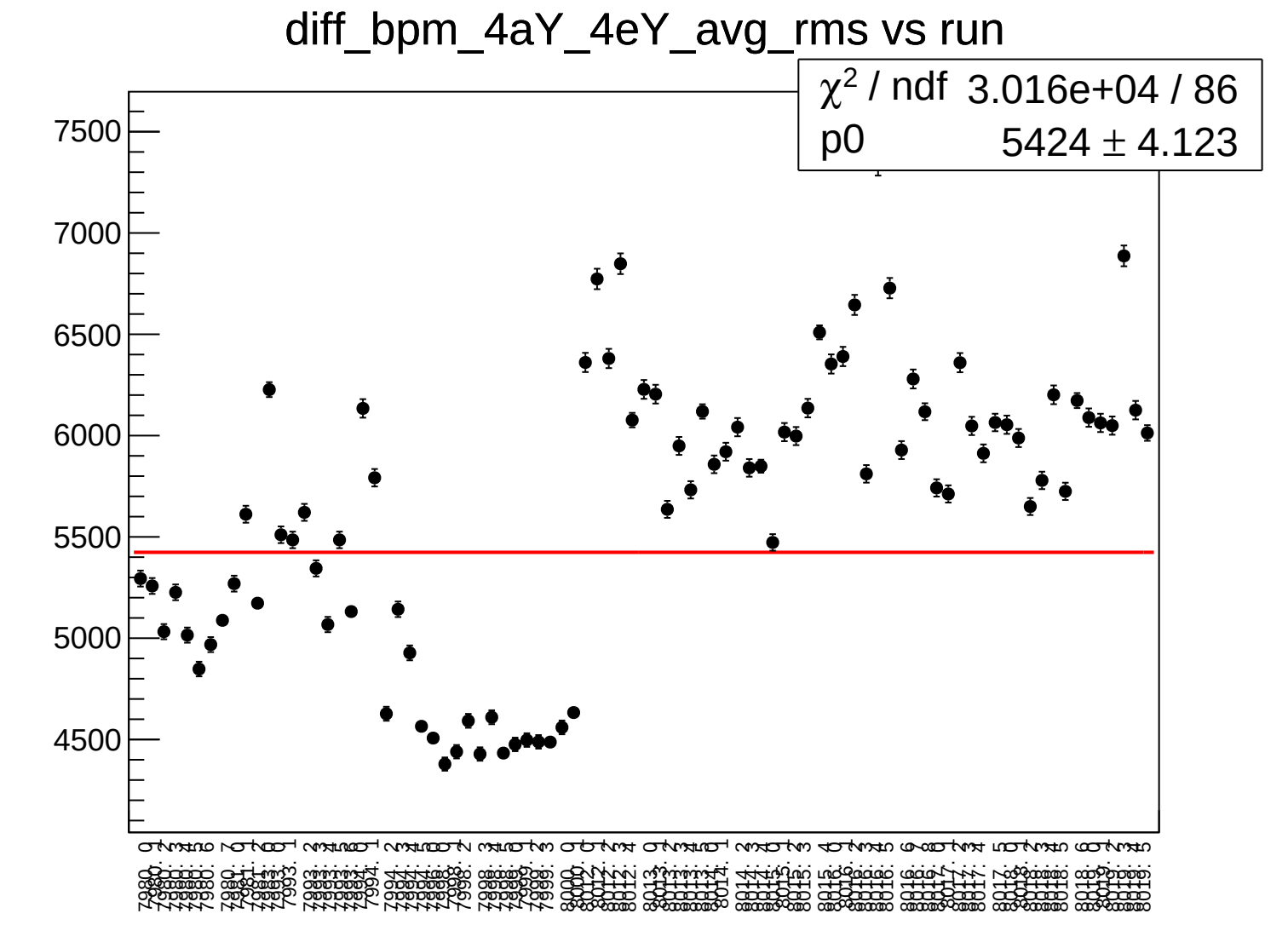

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 73.82 / 86
p0 −0.8878 ± 0.8721
pull
Entries 87
Mean −41.43
Std Dev 0

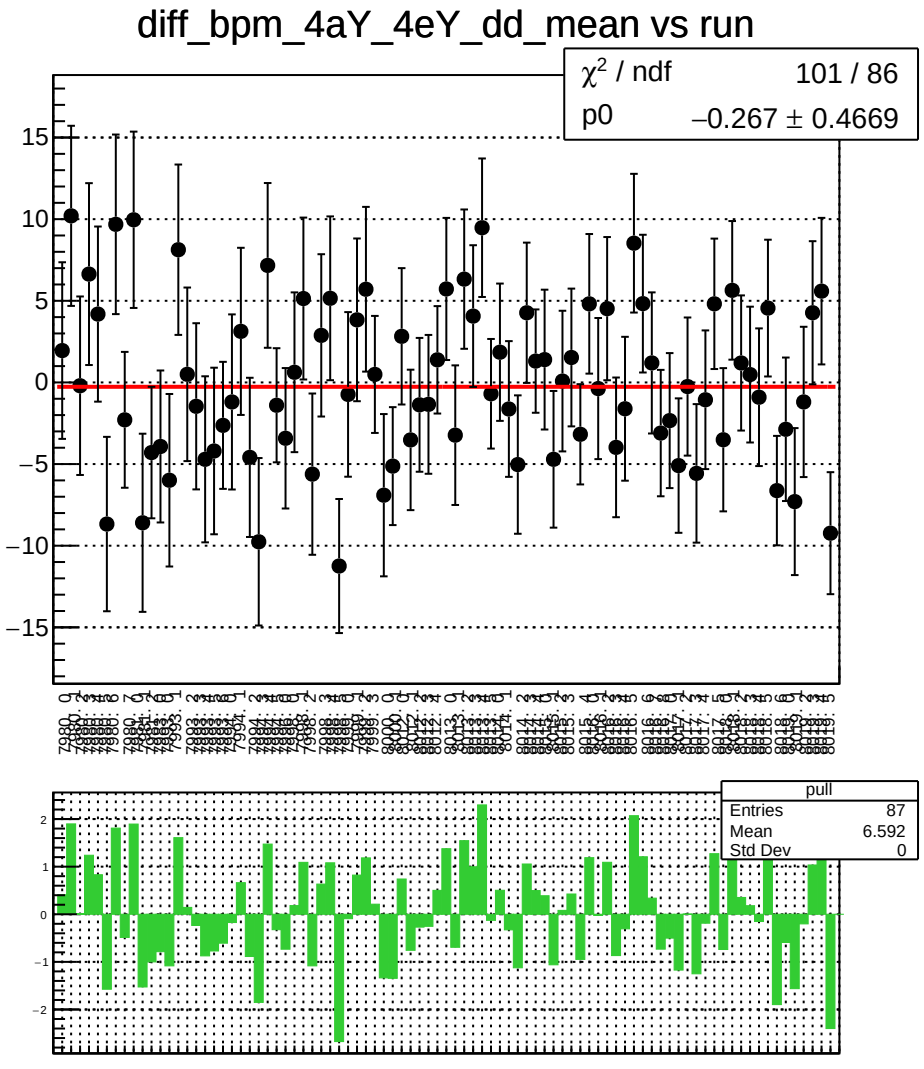

pull1D
Entries 87
Mean 0.01573
Std Dev 0.921

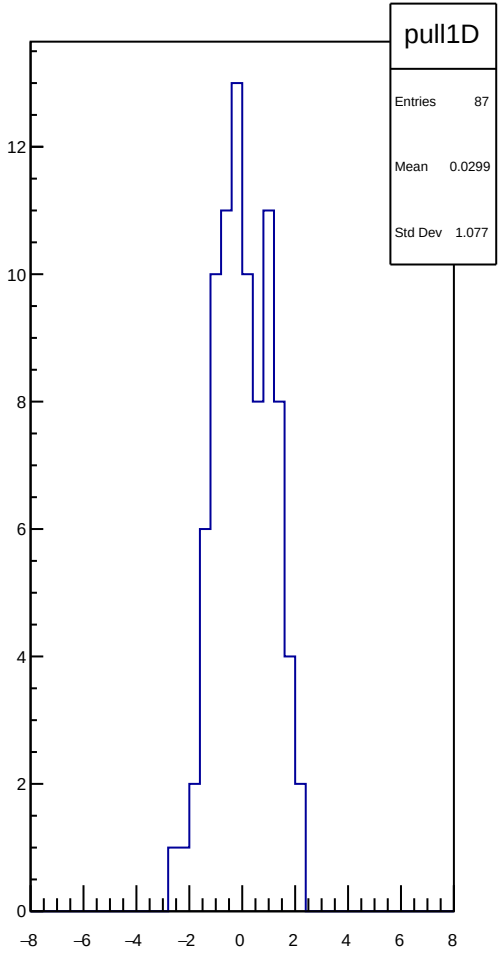

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 234.8 / 86
p0 818.2 ± 0.6167
850
840
830
820
810
800
790

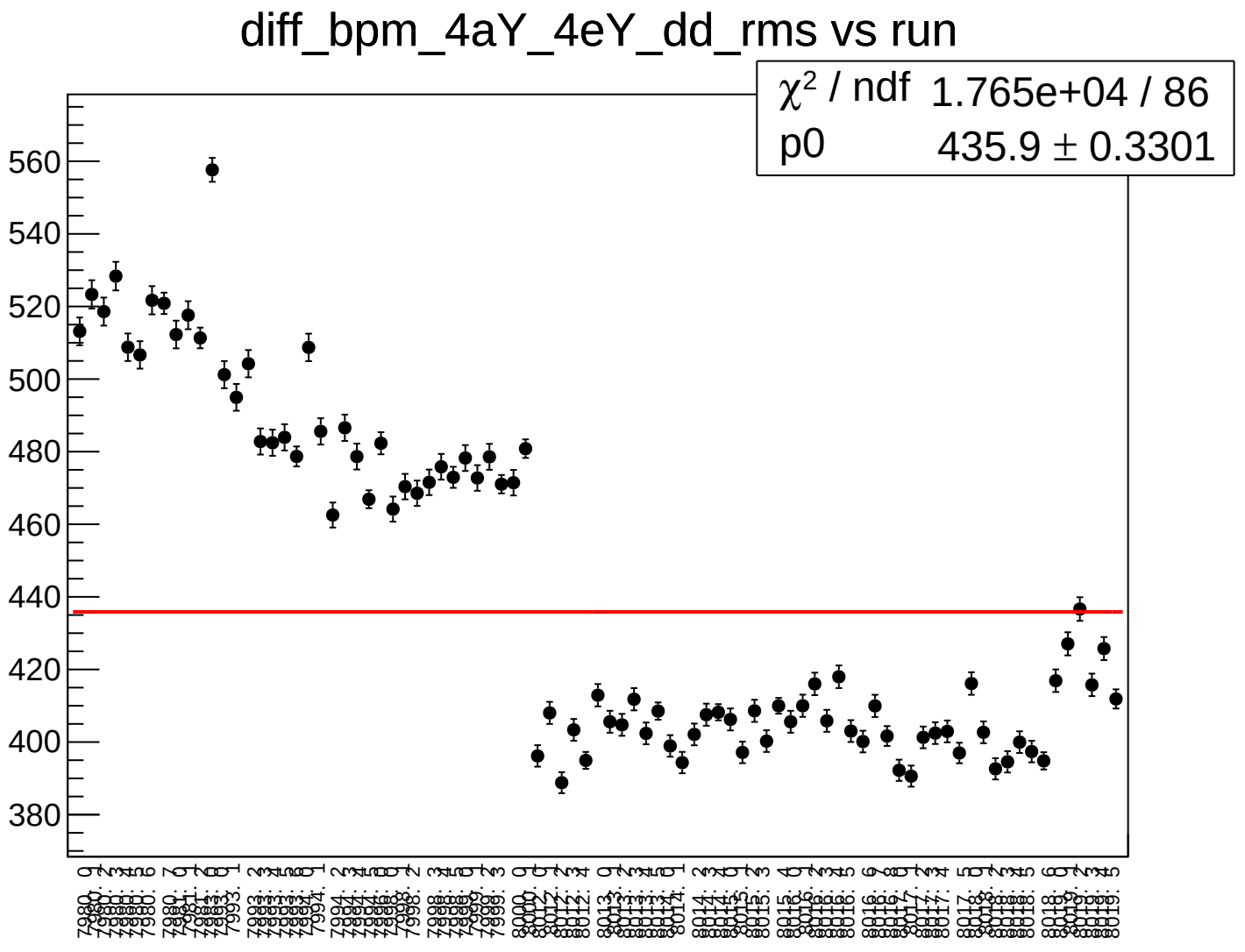

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 78.47 / 86
p0 6.171 ± 5.831
pull
Entries 87
Mean 32.68
Std Dev 42.99

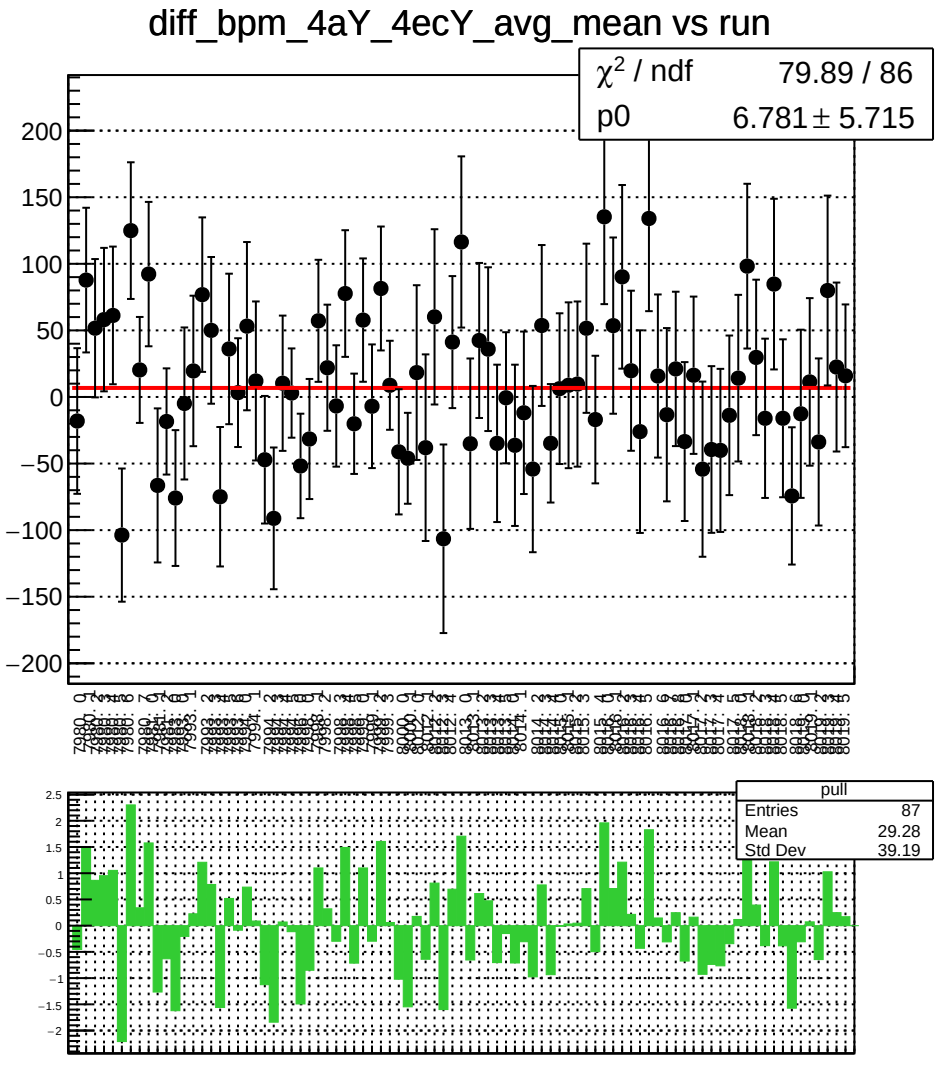

pull1D
Entries 87
Mean 0.04091
Std Dev 0.9489

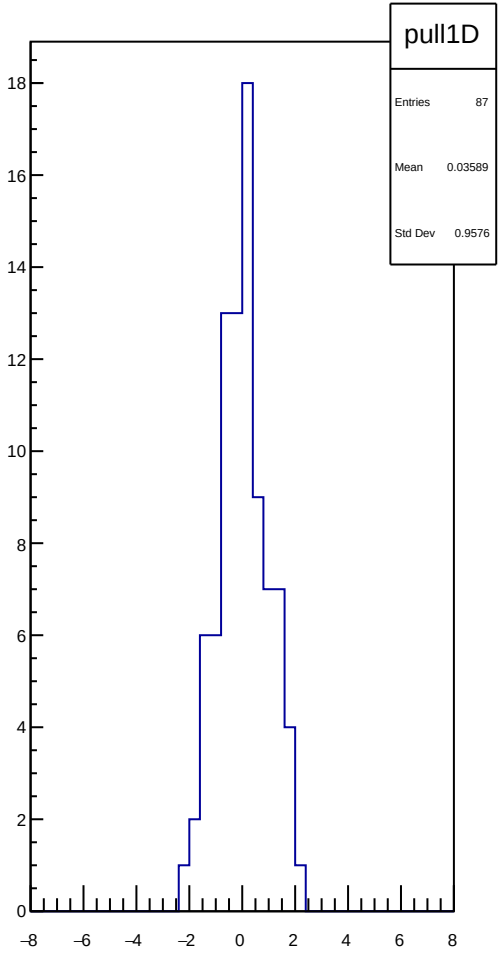

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 3.016e+04 / 86
p0 5424 ± 4.123
7500
7000
6500
6000
5500
5000
4500

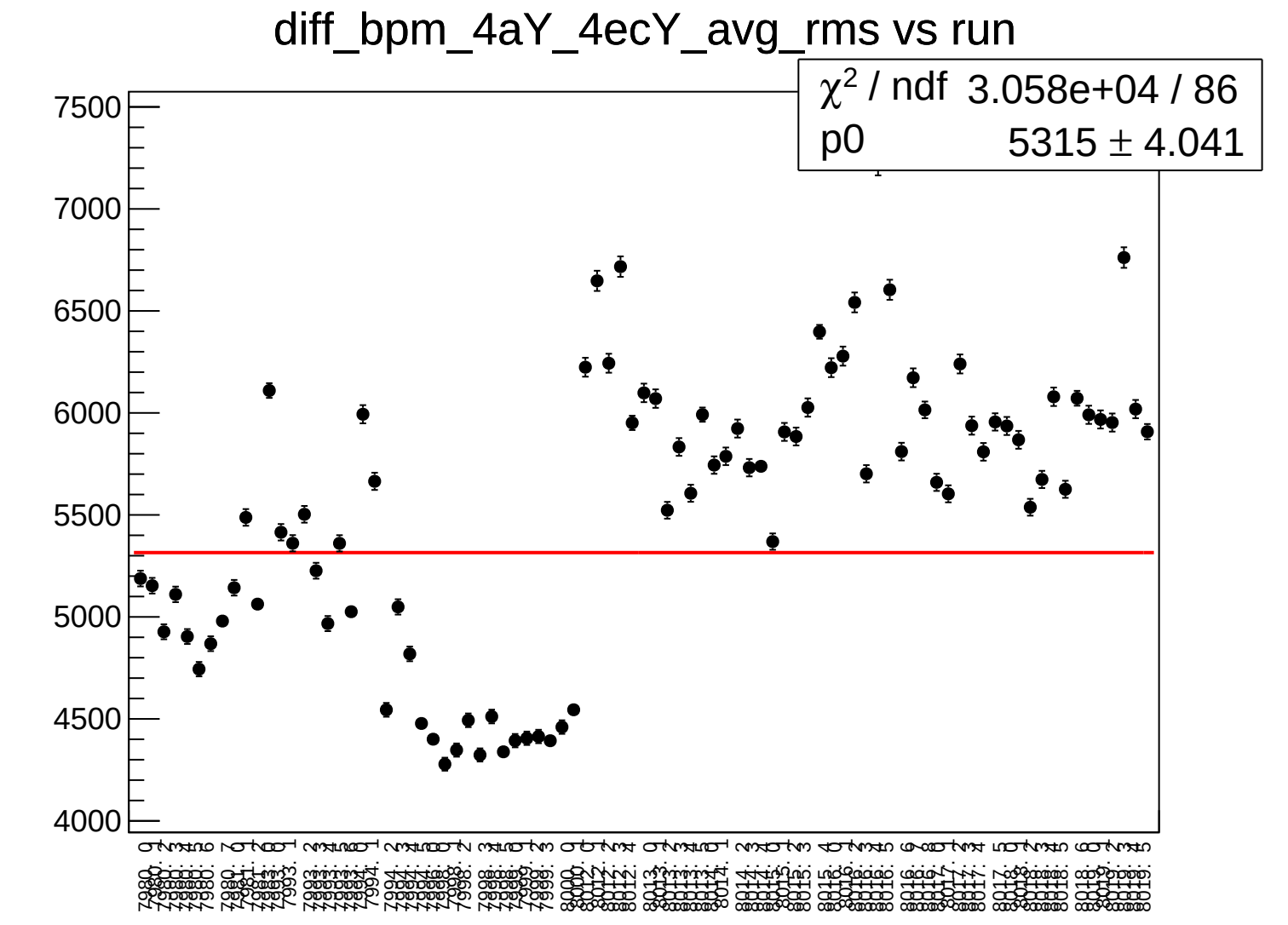

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 101 / 86
p0 −0.267 ± 0.4669
pull
Entries 87
Mean 6.592
Std Dev 0

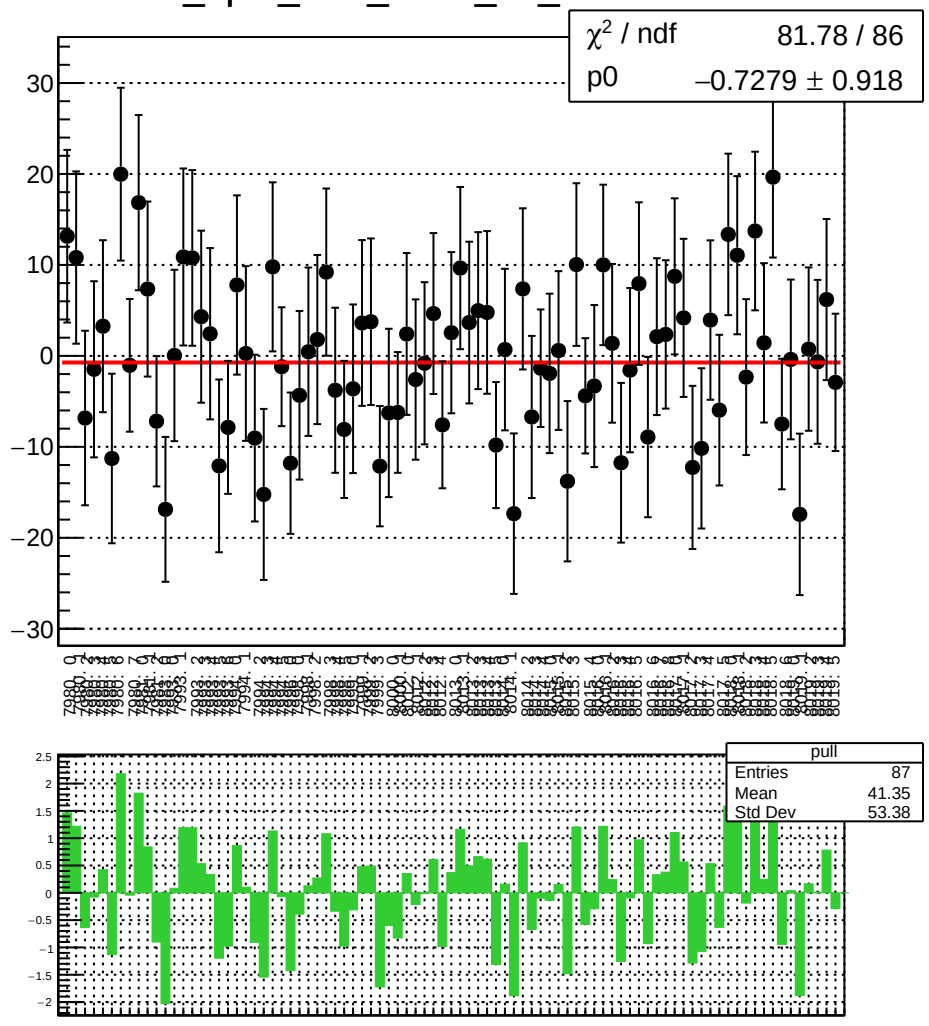

pull1D
Entries 87
Mean 0.0299
Std Dev 1.077

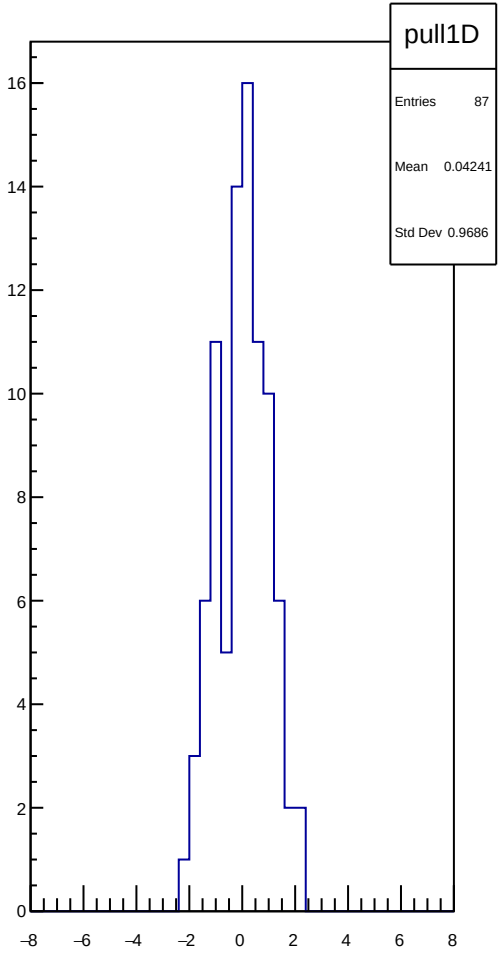

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.765e+04 / 86
p0 435.9 ± 0.3301
560
540
520
500
480
460
440
420
400
380

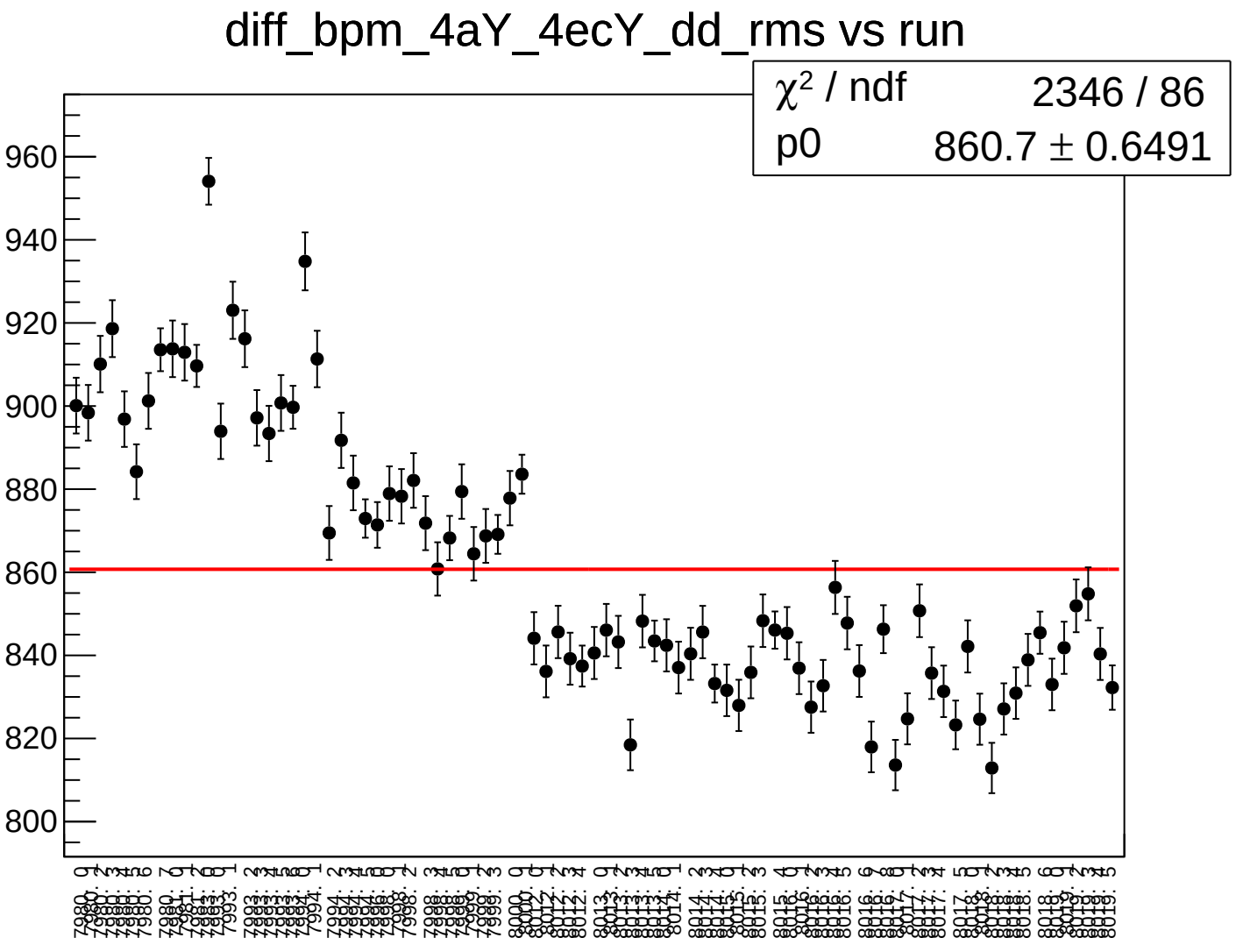

diff_bpm_4aY_4ecY_avg_mean vs run
χ^2 / ndf 79.89 / 86
p0 6.781 ± 5.715
pull
Entries 87
Mean 29.28
Std Dev 39.19

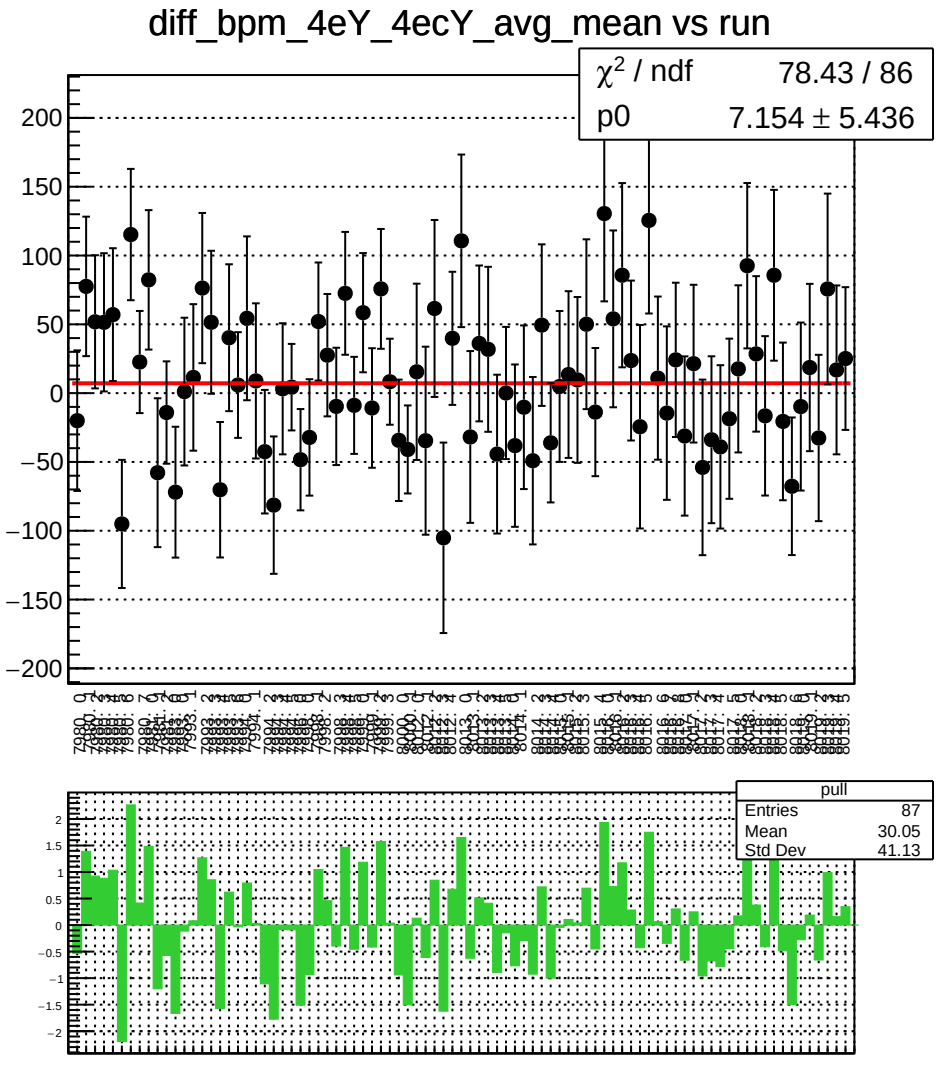

pull1D
Entries 87
Mean 0.03589
Std Dev 0.9576

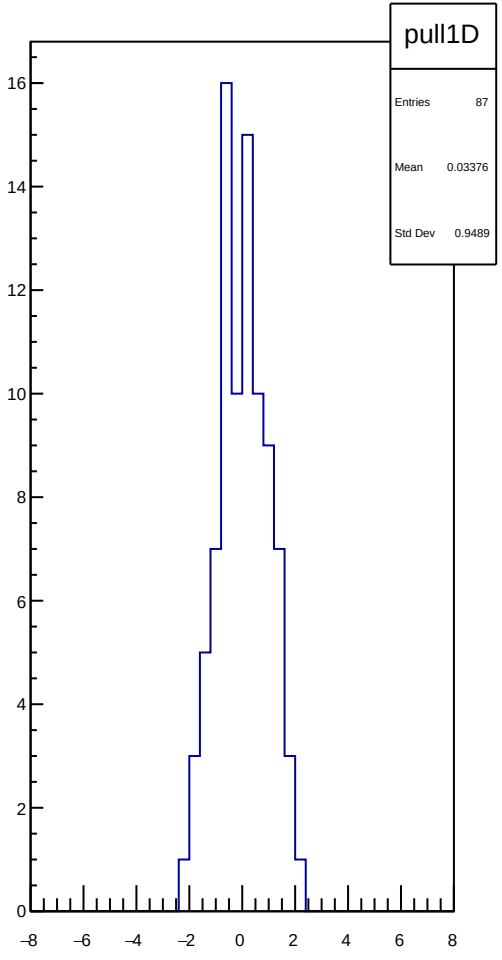

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 3.058e+04 / 86
p0 5315 ± 4.041
7500
7000
6500
6000
5500
5000
4500
4000

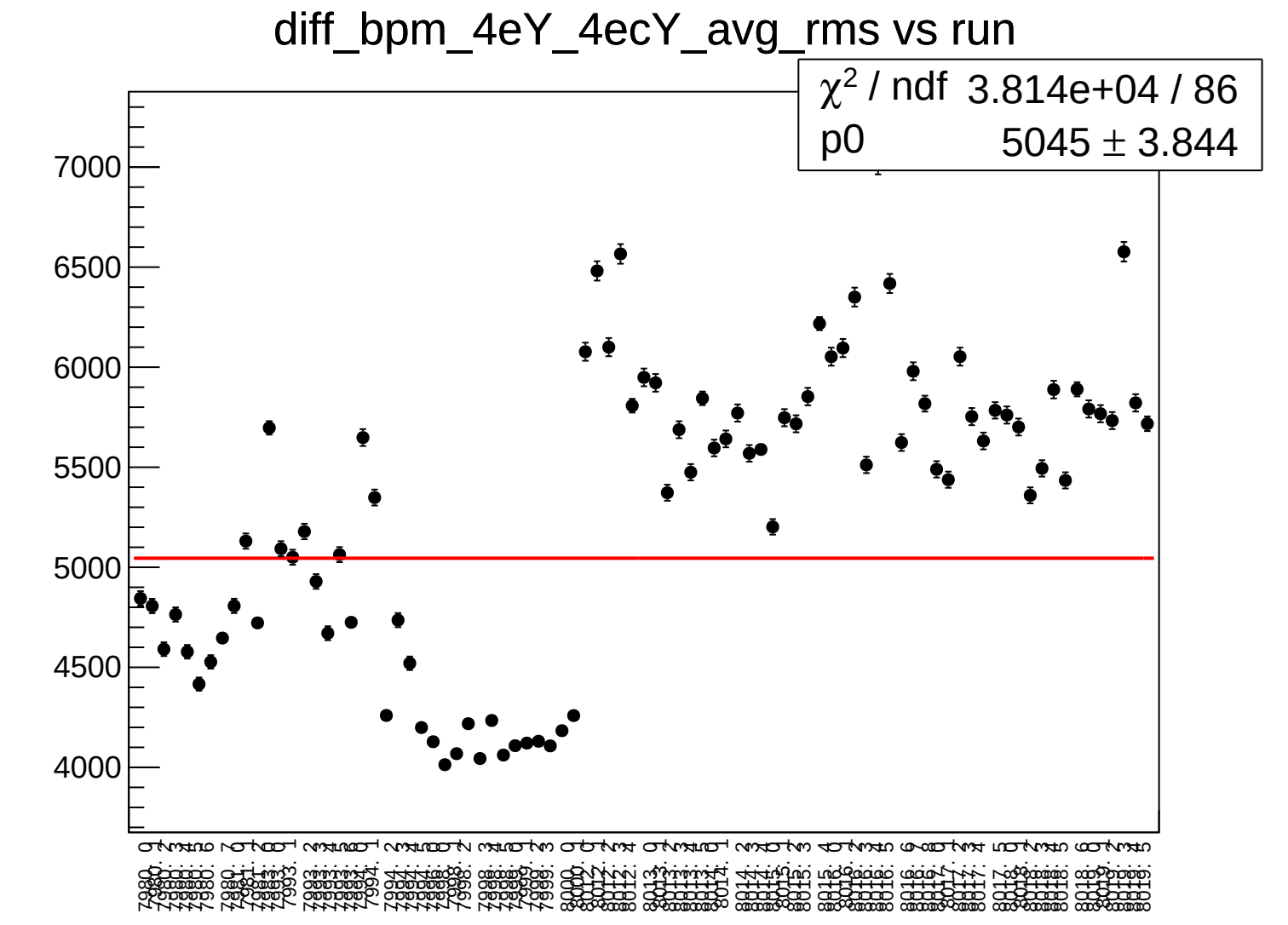

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 81.78 / 86
p0 −0.7279 ± 0.918
pull
Entries 87
Mean 41.35
Std Dev 53.38

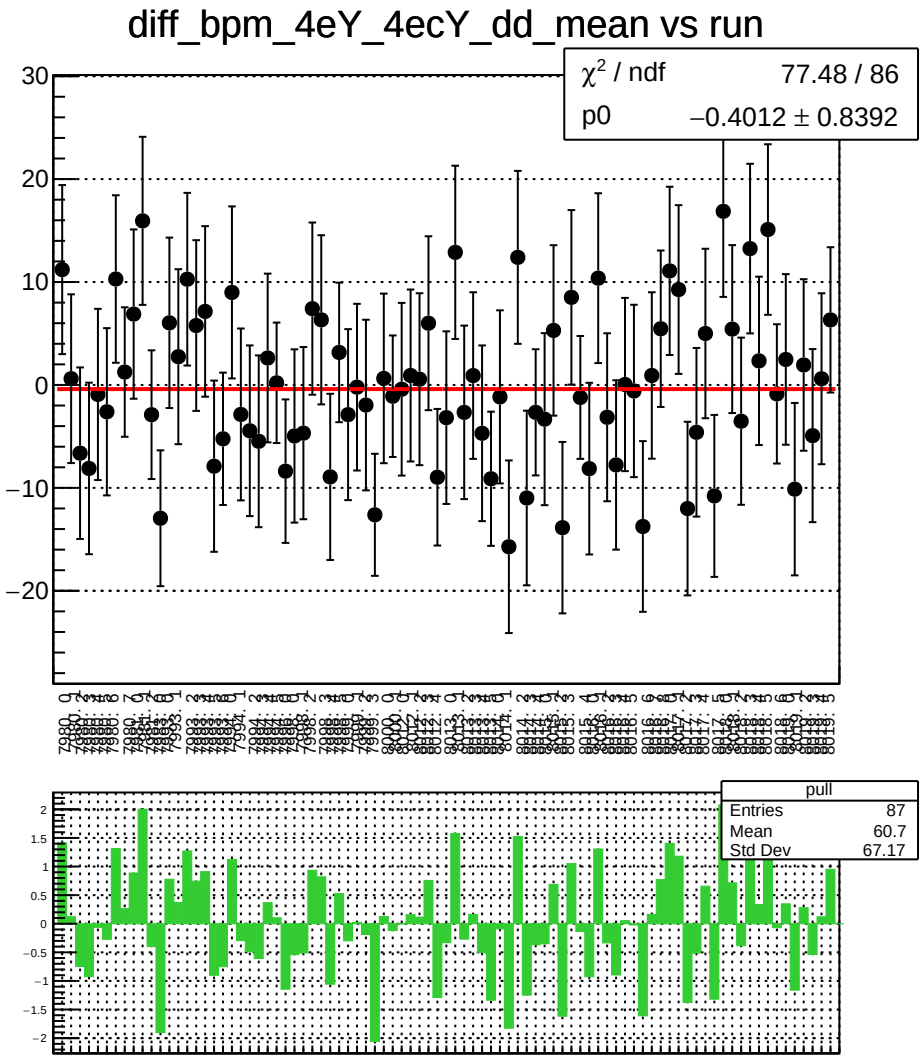

pull1D
Entries 87
Mean 0.04241
Std Dev 0.9686

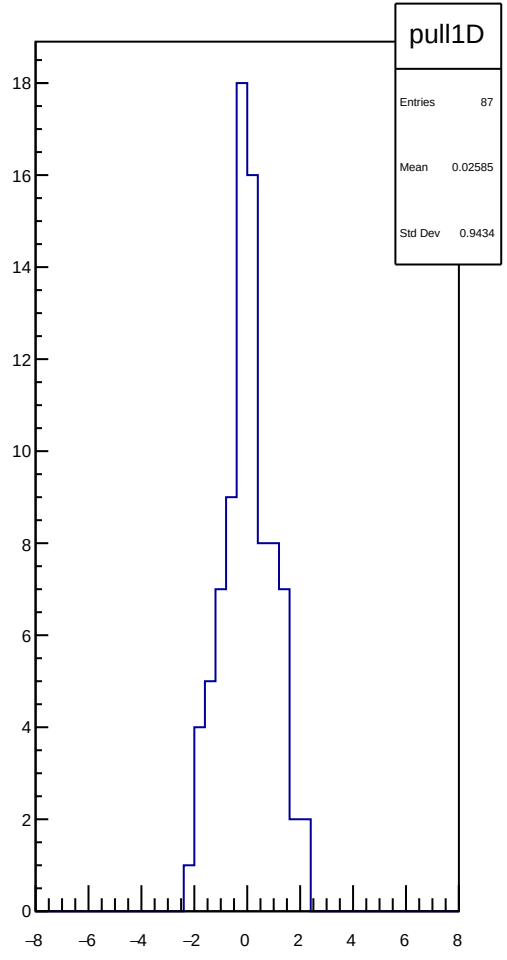

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 2346 / 86
p0 860.7 ± 0.6491
960
940
920
900
880
860
840
820
800

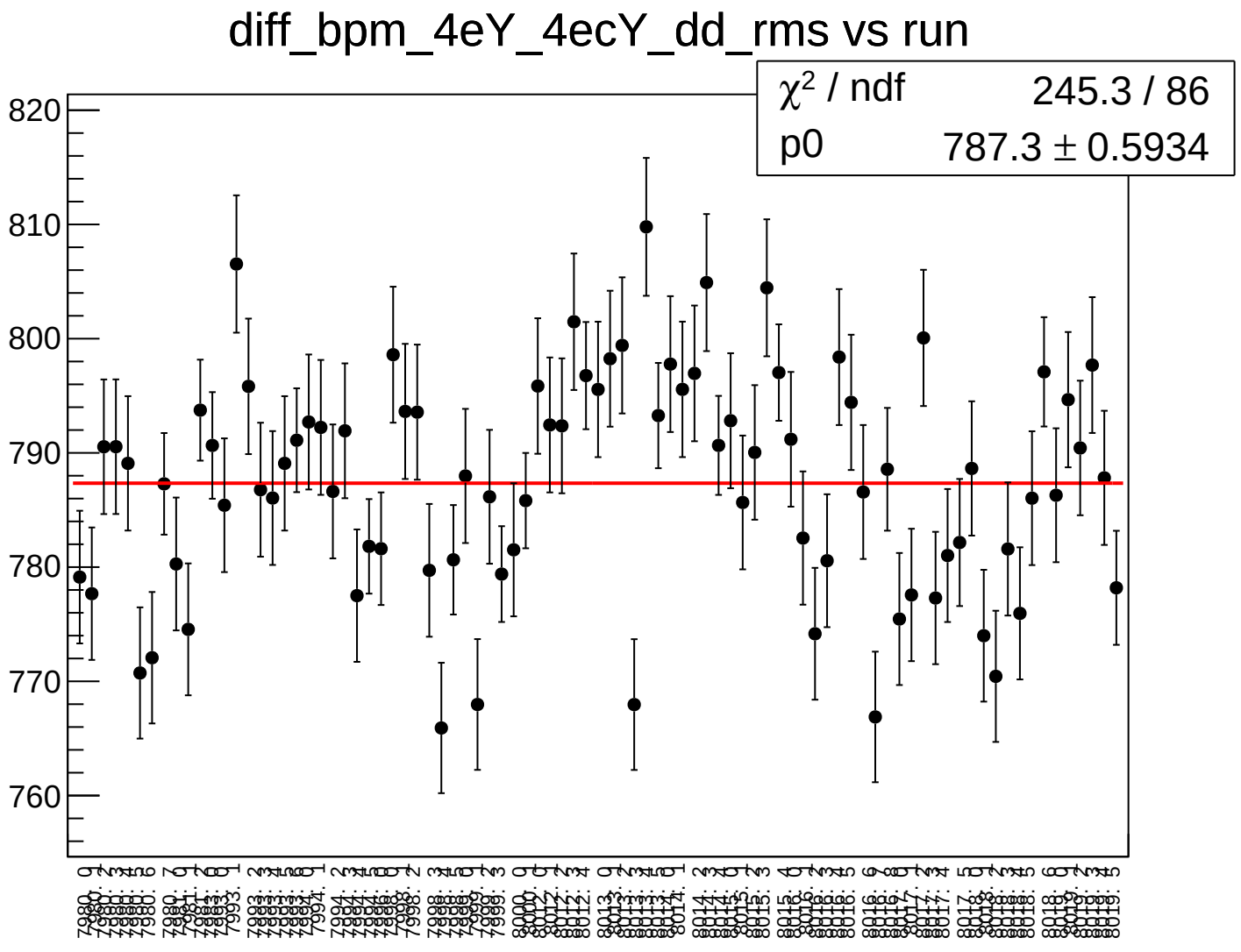

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 78.43 / 86
p0 7.154 ± 5.436
pull
Entries 87
Mean 30.05
Std Dev 41.13

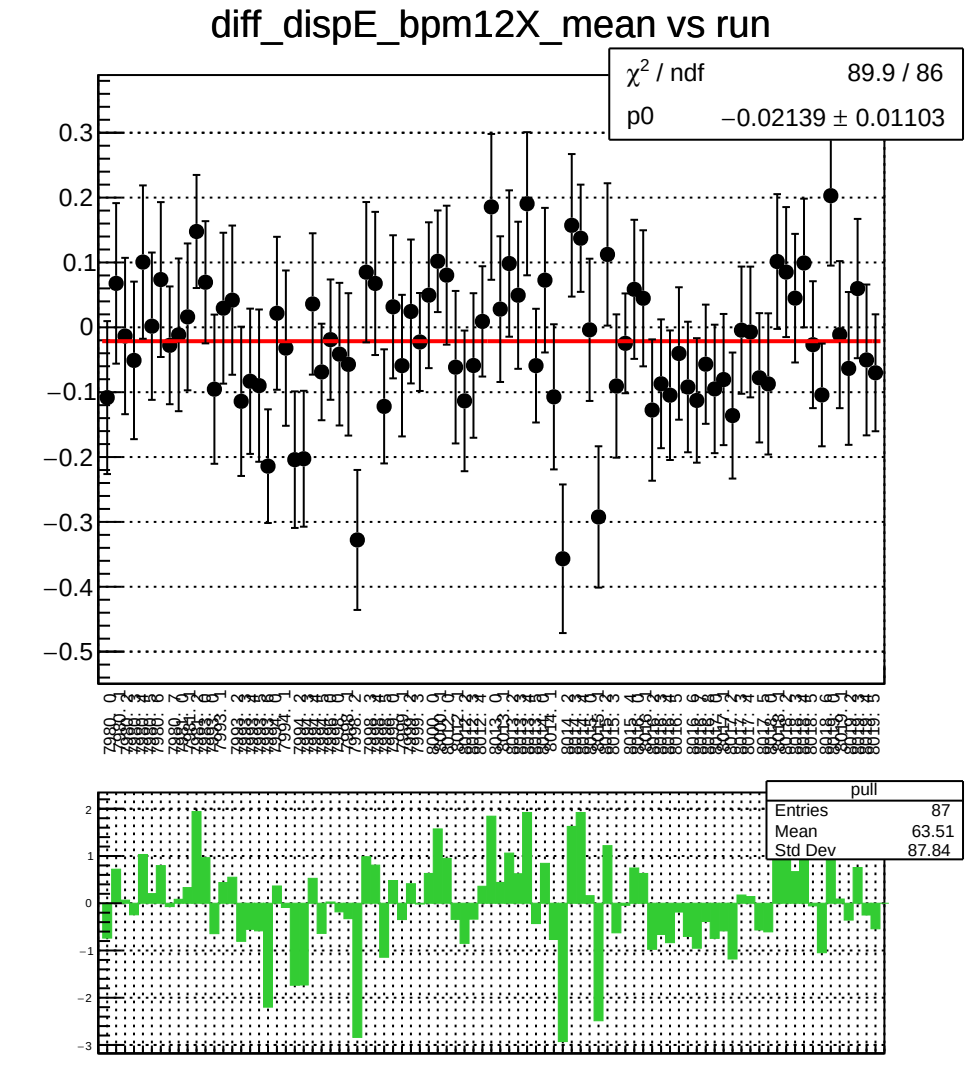

pull1D
Entries 87
Mean 0.03376
Std Dev 0.9489

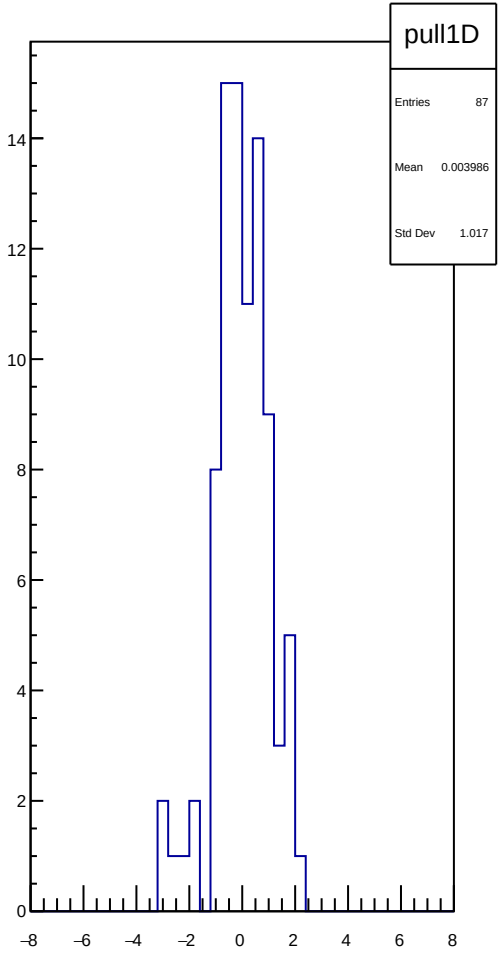

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 3.814e+04 / 86
p0 5045 ± 3.844
7000
6500
6000
5500
5000
4500
4000

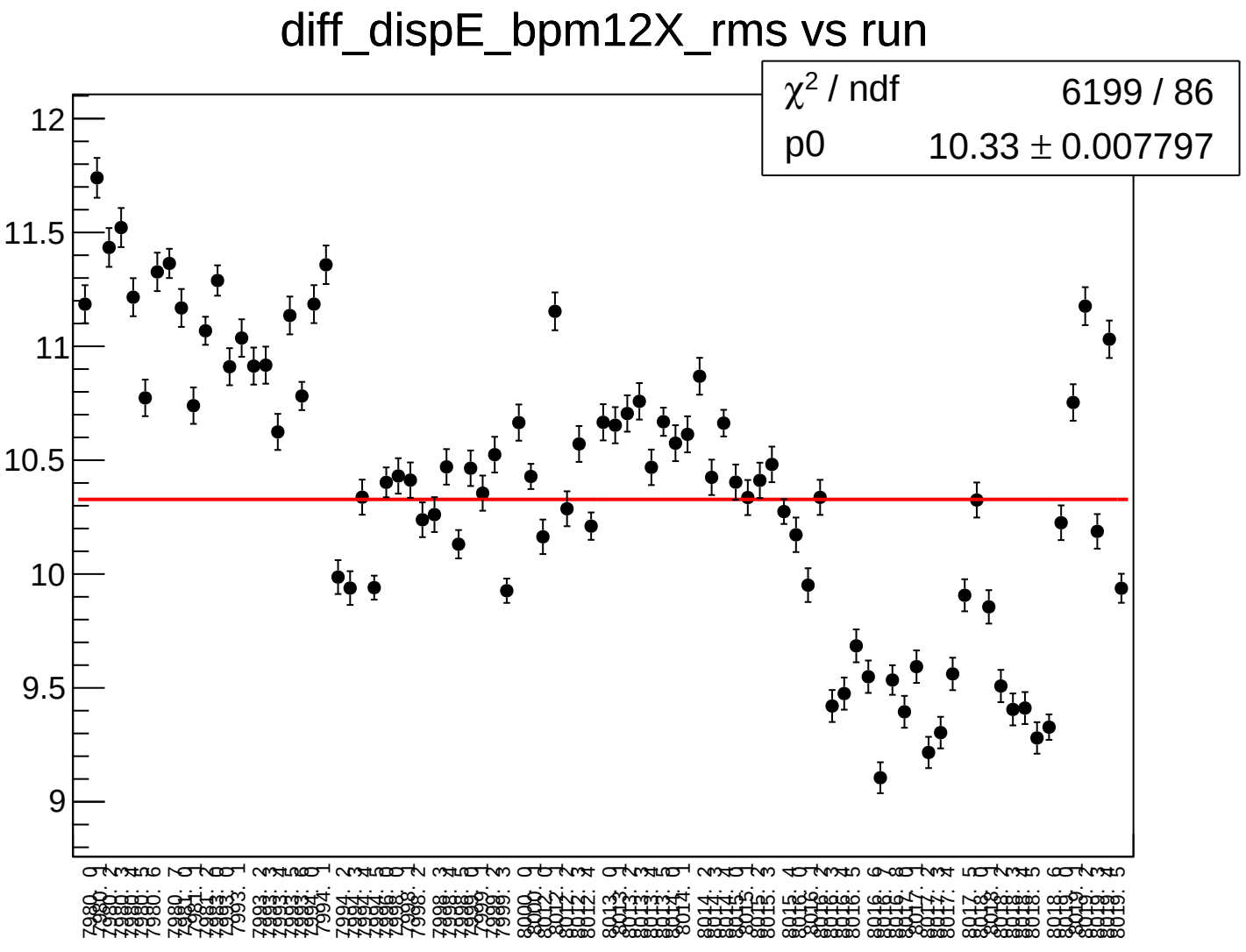

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 77.48 / 86
p0 −0.4012 ± 0.8392
pull
Entries 87
Mean 60.7
Std Dev 67.17

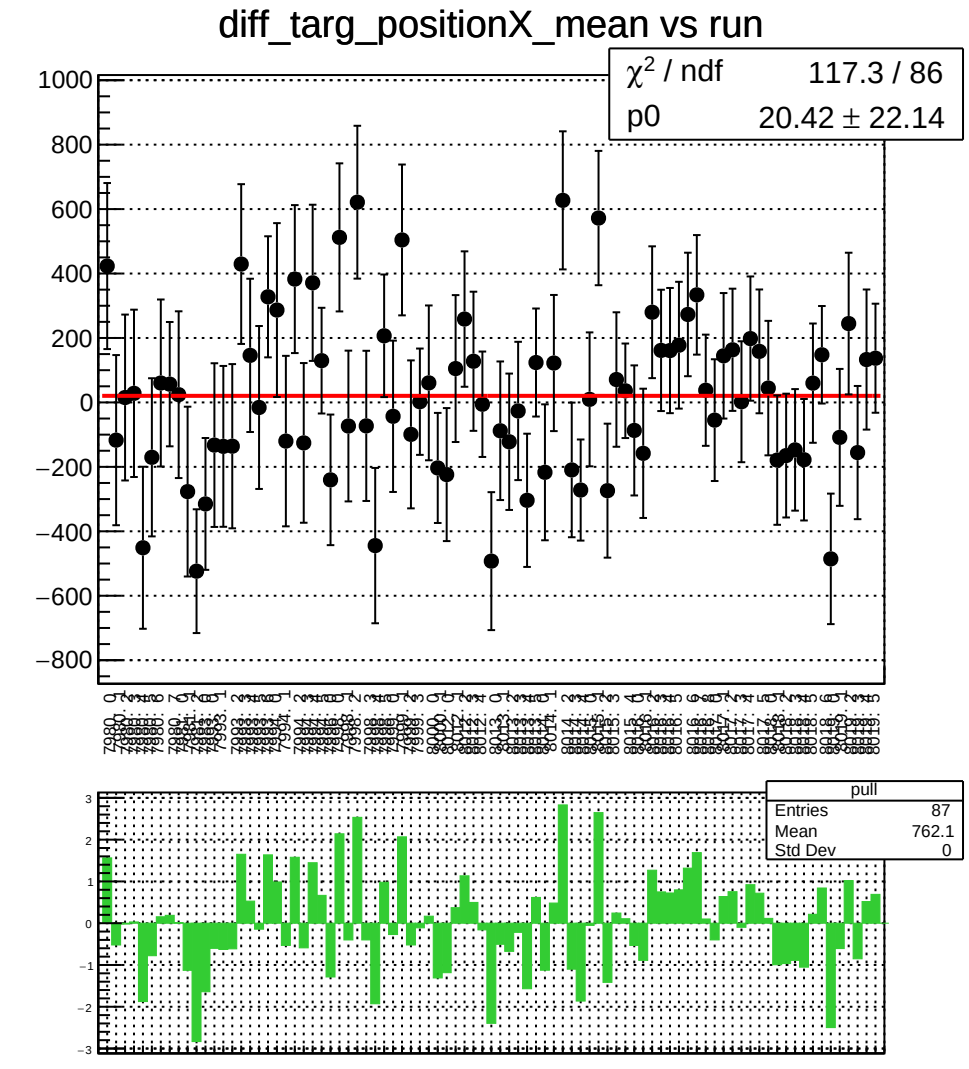

pull1D
Entries 87
Mean 0.02585
Std Dev 0.9434

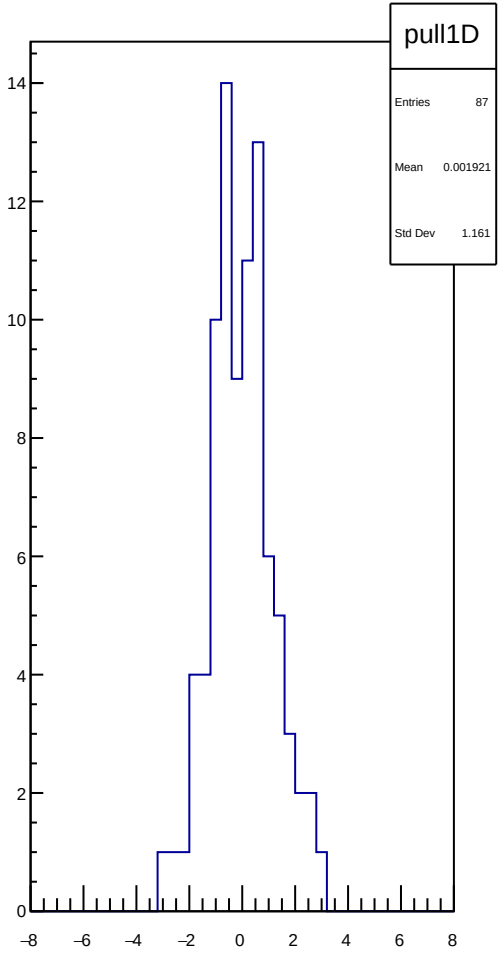

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 245.3 / 86
p0 787.3 ± 0.5934
820
810
800
790
780
770
760

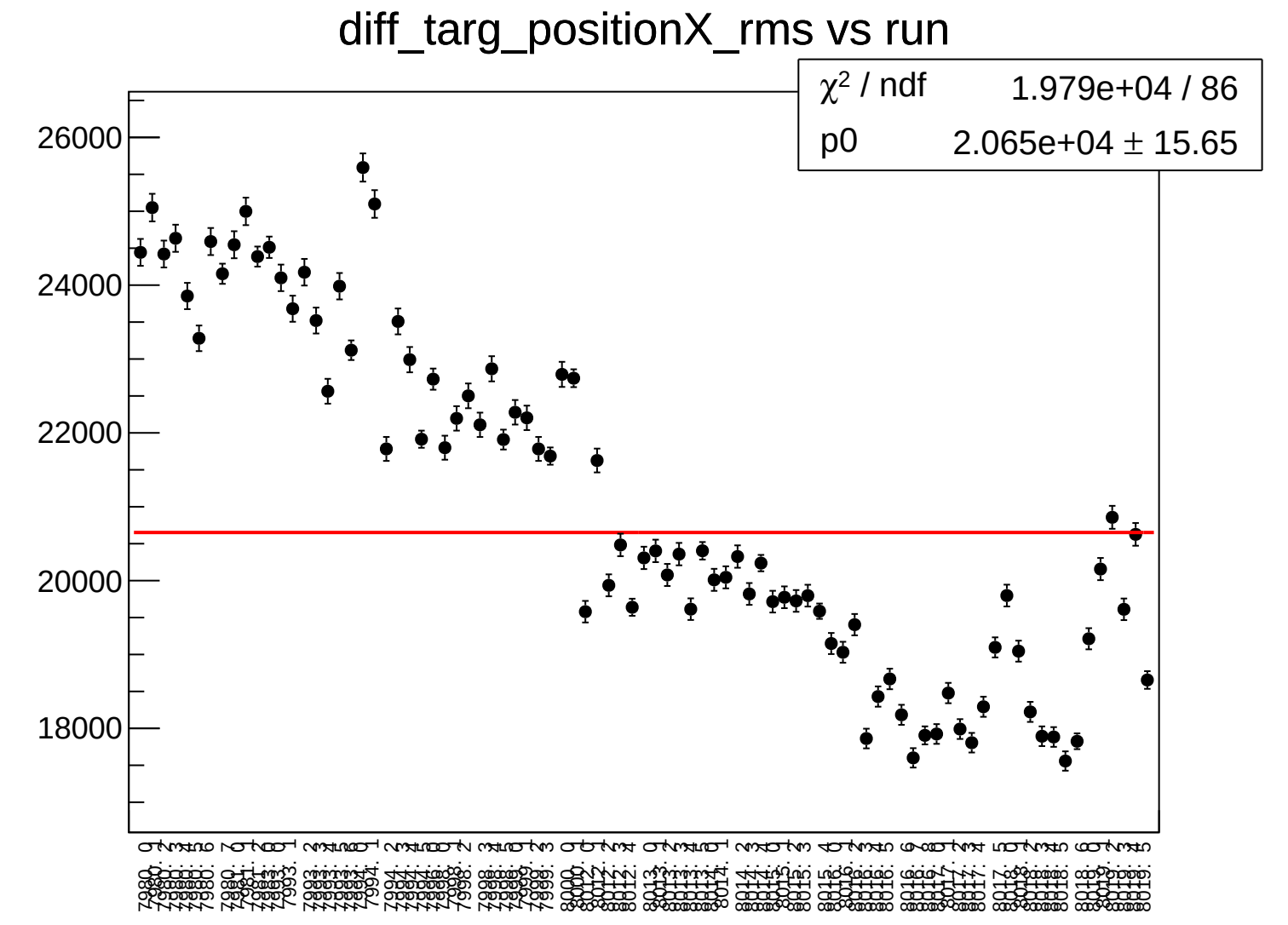

diff_dispE_bpm12X_mean vs run
χ² / ndf 89.9 / 86
p0 −0.02139 ± 0.01103
pull
Entries 87
Mean 63.51
Std Dev 87.84

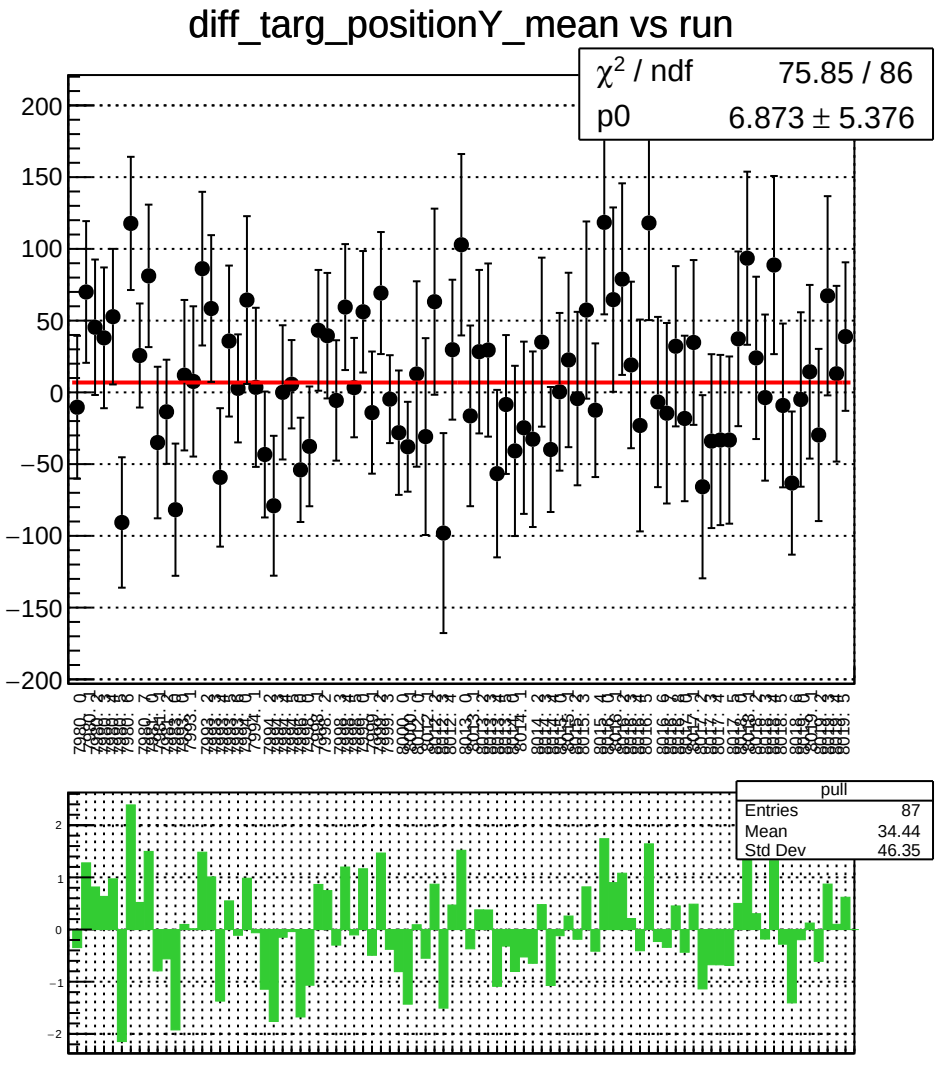

pull1D
Entries 87
Mean 0.003986
Std Dev 1.017

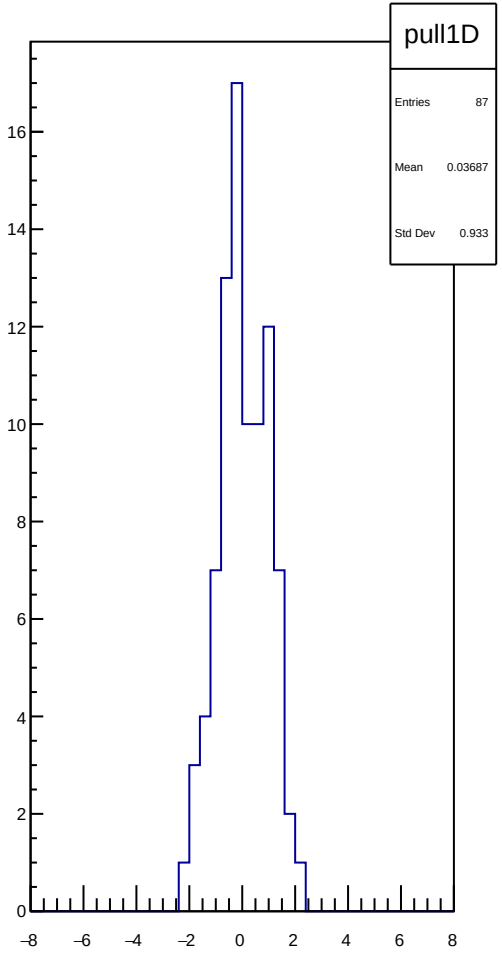

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 6199 / 86
p0 10.33 ± 0.007797
12
11.5
11
10.5
10
9.5
9

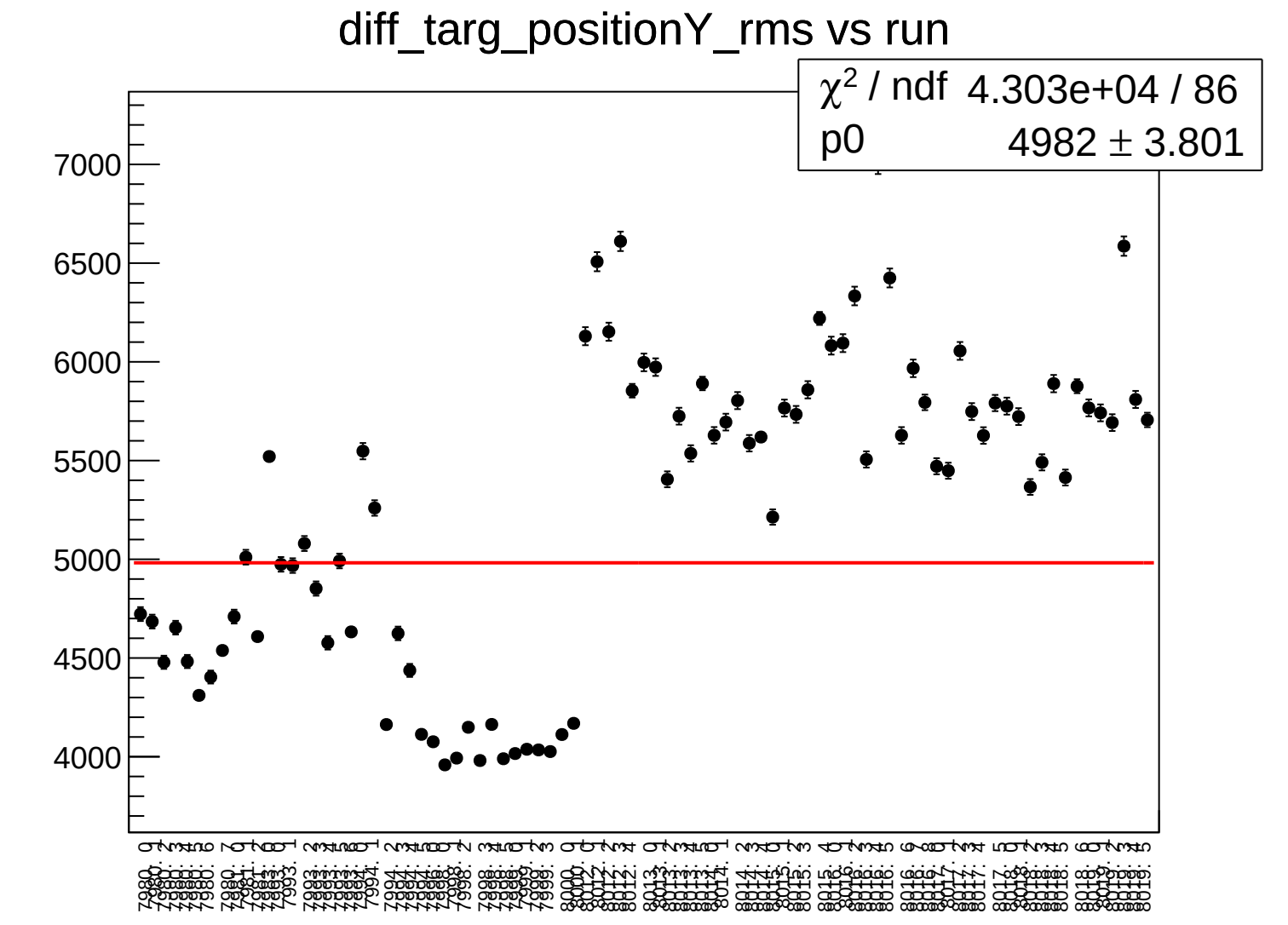

diff_targ_positionX_mean vs run
χ² / ndf 117.3 / 86
p0 20.42 ± 22.14
pull
Entries 87
Mean 762.1
Std Dev 0

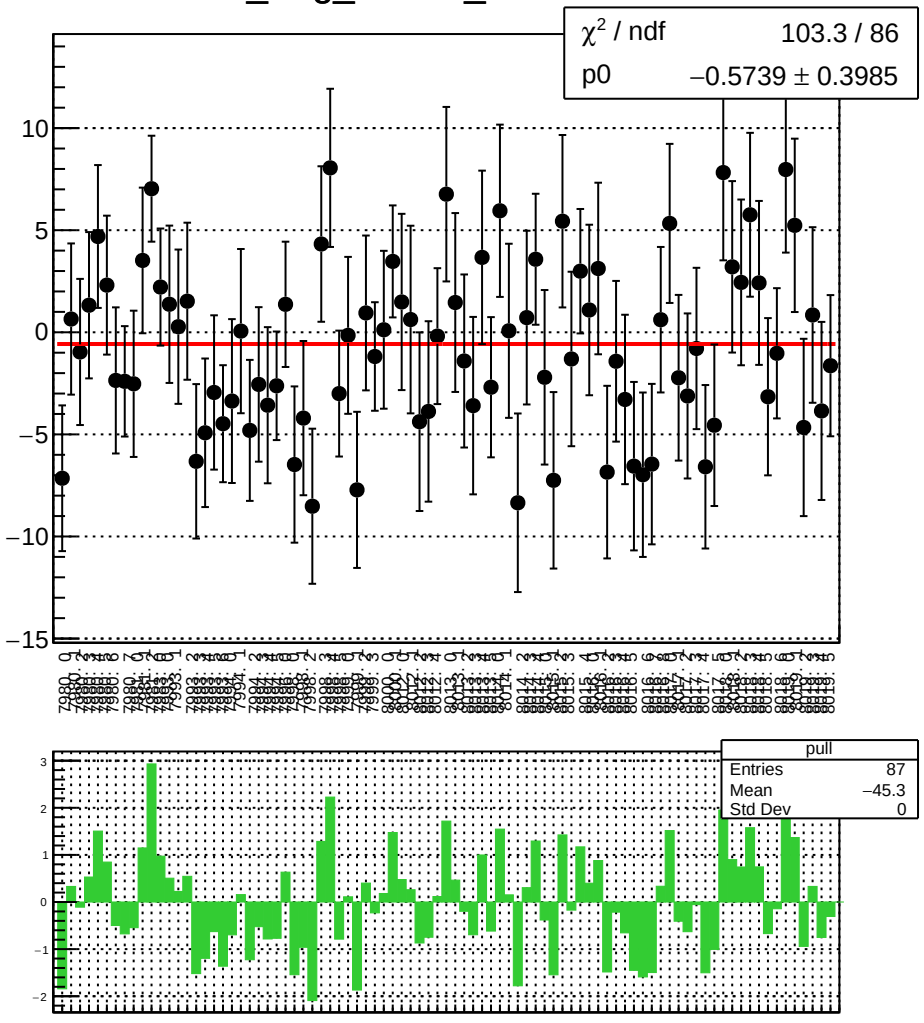

pull1D
Entries 87
Mean 0.001921
Std Dev 1.161

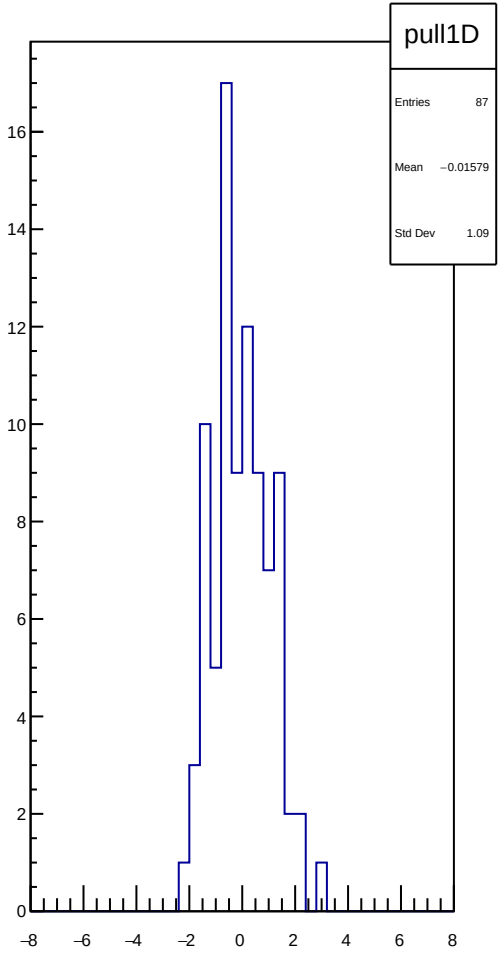

diff_targ_positionX_rms vs run
χ² / ndf 1.979e+04 / 86
p0 2.065e+04 ± 15.65
26000
24000
22000
20000
18000

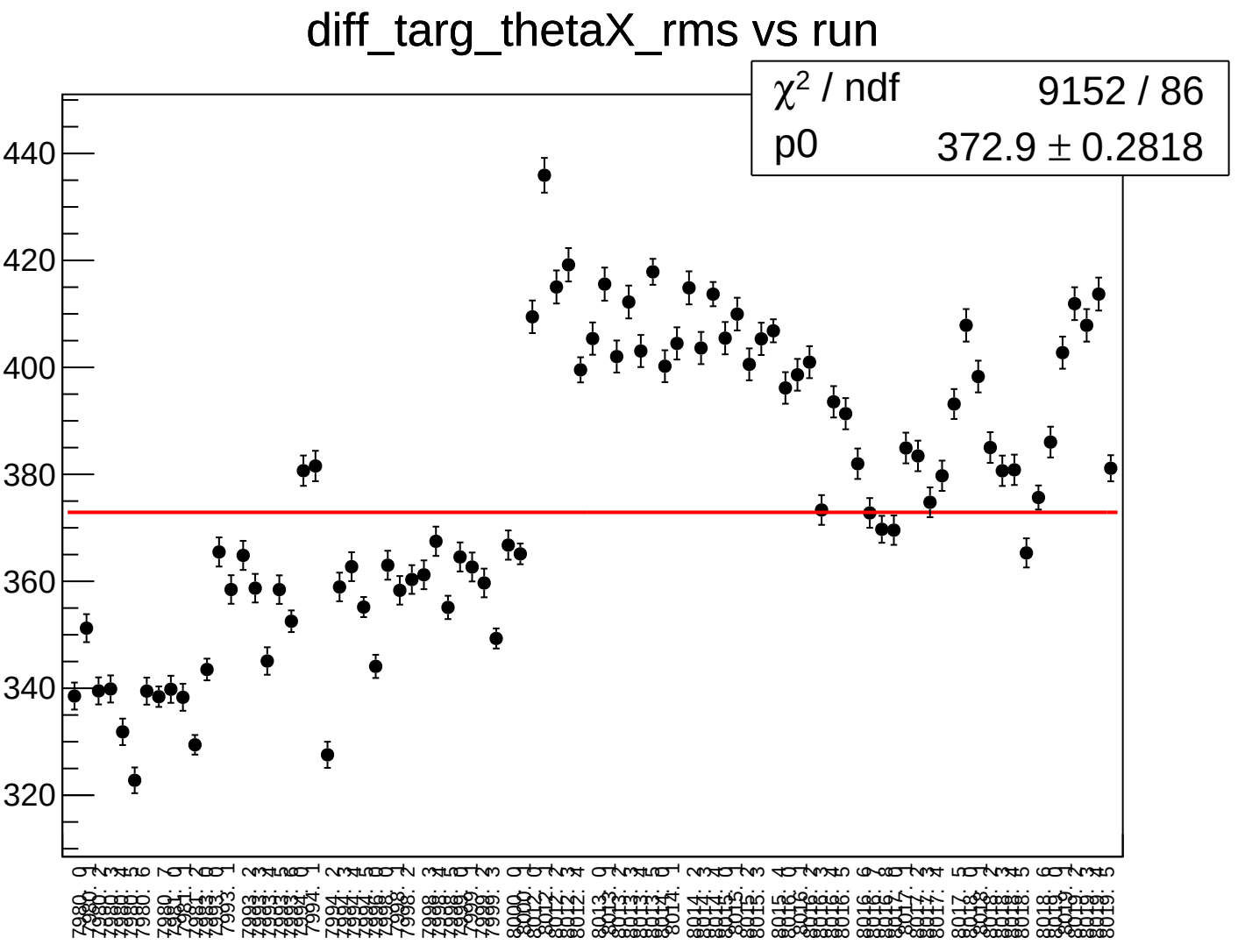

diff_targ_positionY_mean vs run
χ² / ndf 75.85 / 86
p0 6.873 ± 5.376
pull
Entries 87
Mean 34.44
Std Dev 46.35

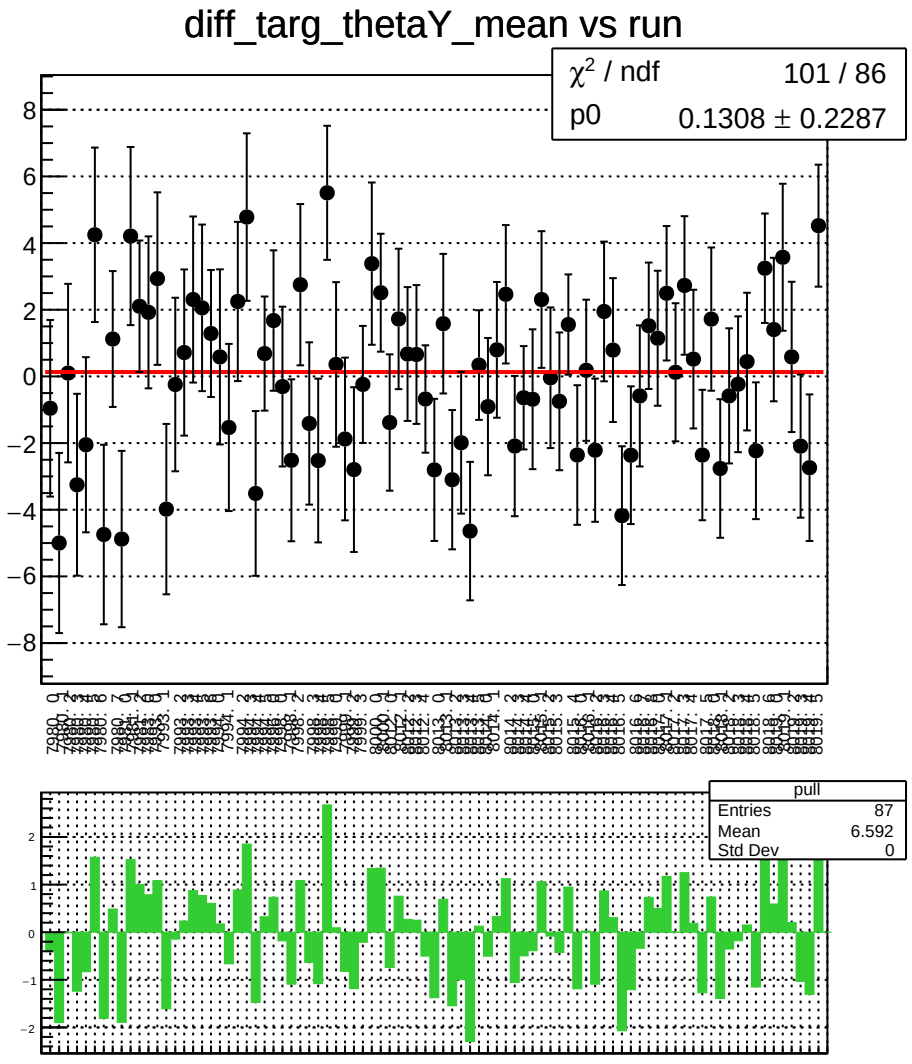

pull1D
Entries 87
Mean 0.03687
Std Dev 0.933

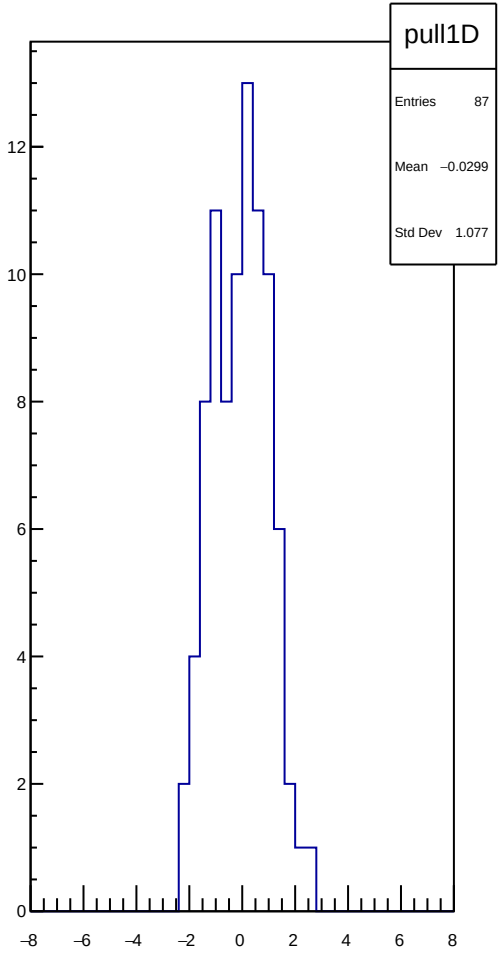

diff_targ_positionY_rms vs run
χ² / ndf 4.303e+04 / 86
p0 4982 ± 3.801
7000
6500
6000
5500
5000
4500
4000

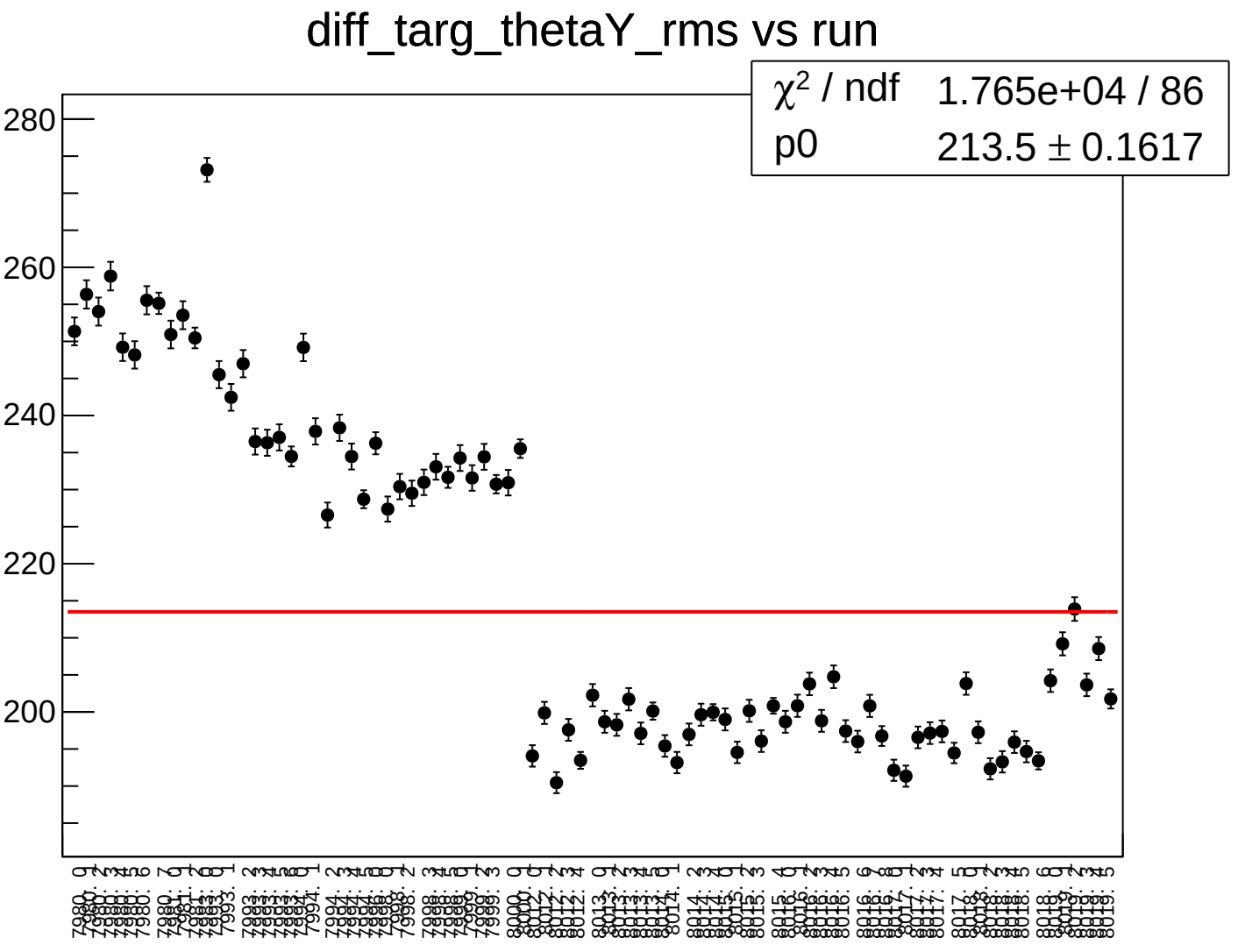

diff_targ_thetaX_mean vs run
χ² / ndf 103.3 / 86
p0 −0.5739 ± 0.3985
pull
Entries 87
Mean −45.3
Std Dev 0

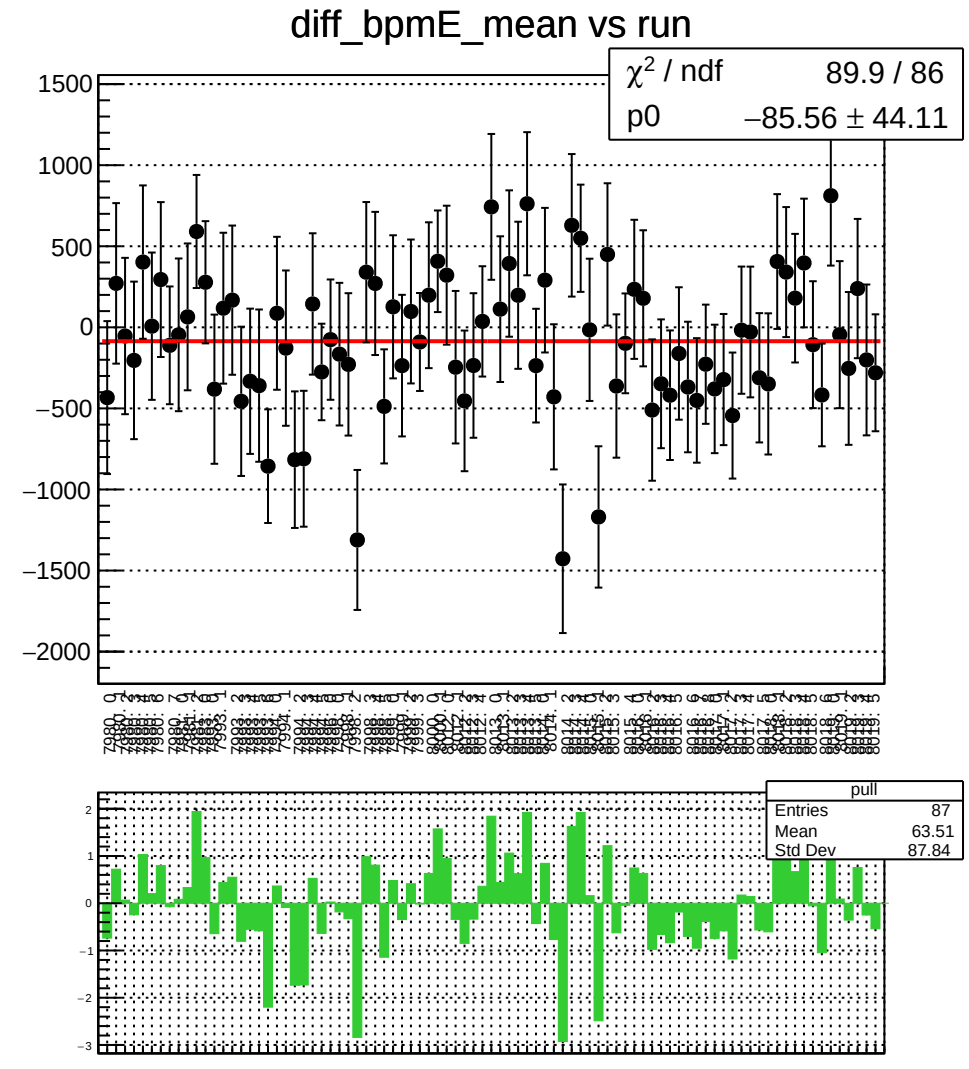

pull1D
Entries 87
Mean −0.01579
Std Dev 1.09

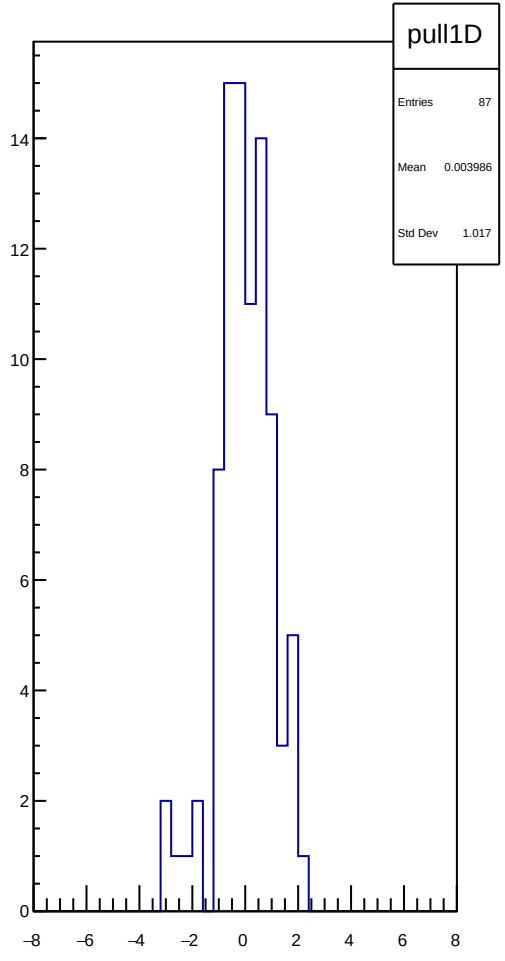

diff_targ_thetaX_rms vs run
χ^2 / ndf 9152 / 86
p0 372.9 ± 0.2818
440
420
400
380
360
340
320

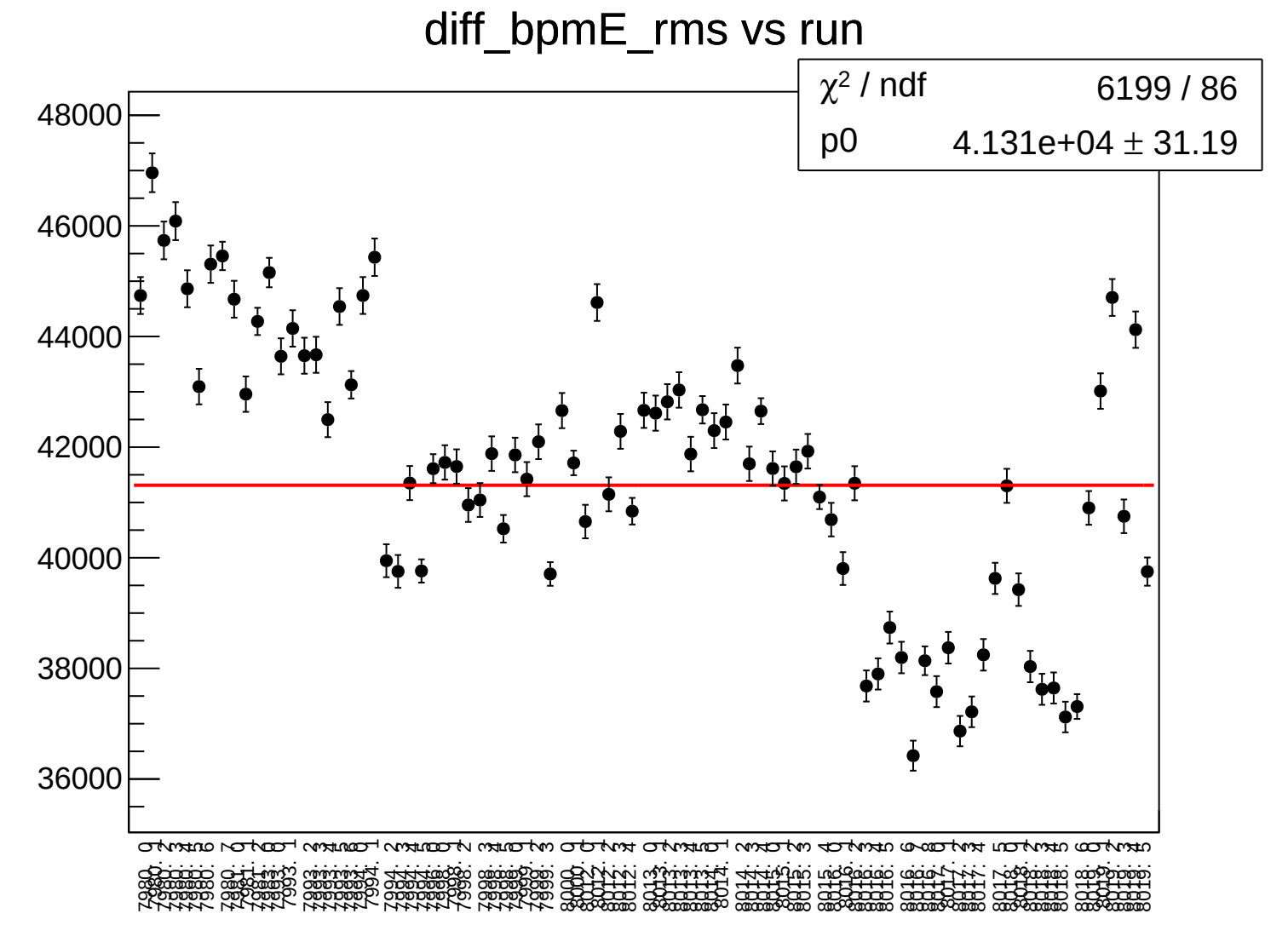

diff_targ_thetaY_mean vs run
χ² / ndf 101 / 86
p0 0.1308 ± 0.2287
pull
Entries 87
Mean 6.592
Std Dev 0

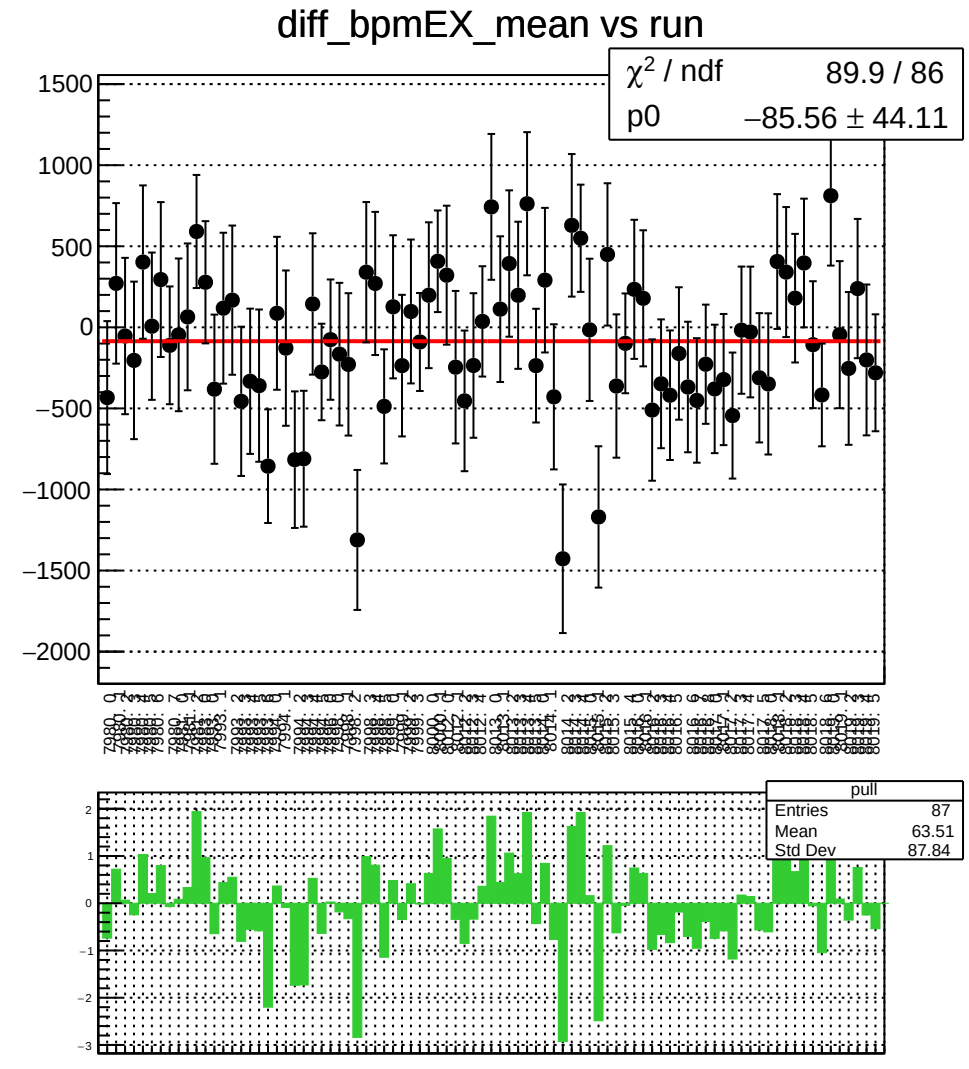

pull1D
Entries 87
Mean −0.0299
Std Dev 1.077

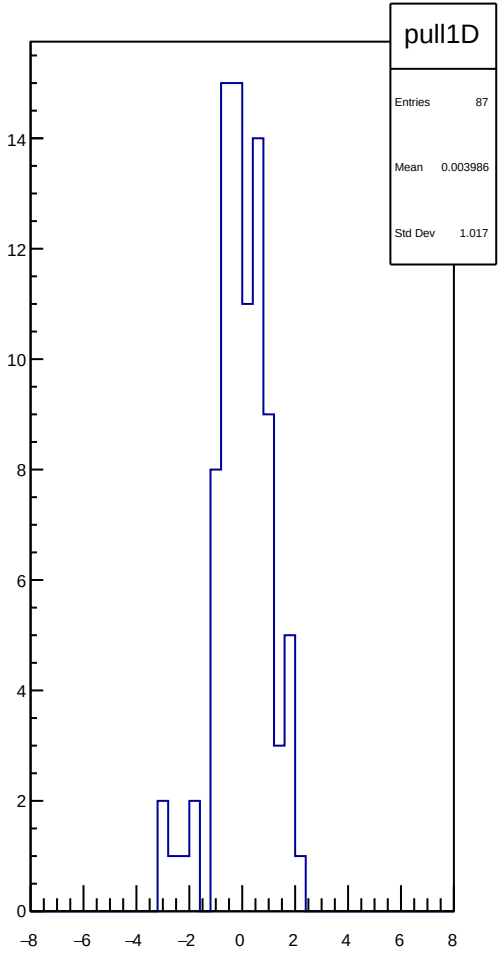

diff_targ_thetaY_rms vs run
χ² / ndf 1.765e+04 / 86
p0 213.5 ± 0.1617
280
260
240
220
200

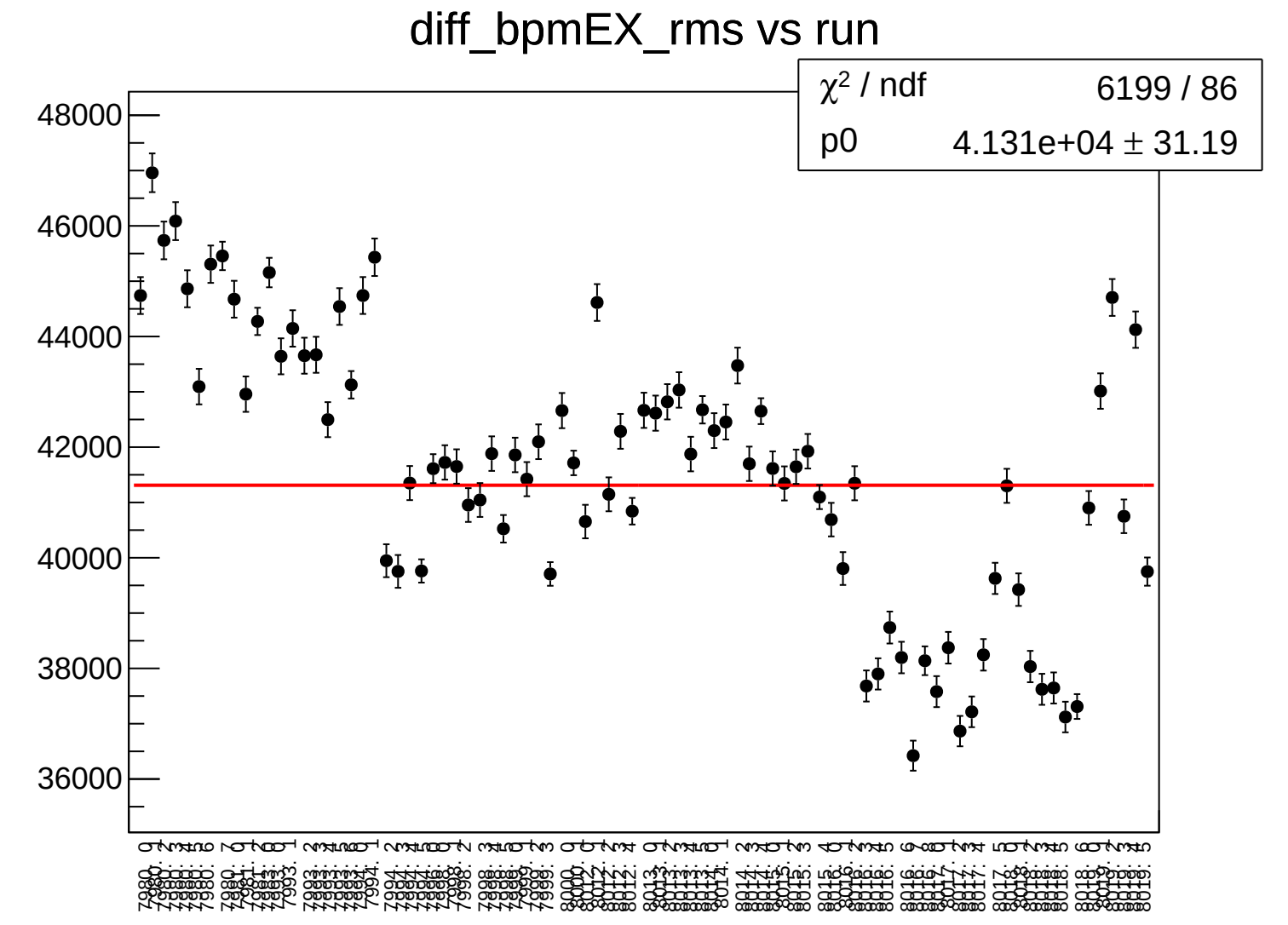

diff_bpmE_mean vs run
χ² / ndf 89.9 / 86
p0 −85.56 ± 44.11
pull
Entries 87
Mean 63.51
Std Dev 87.84

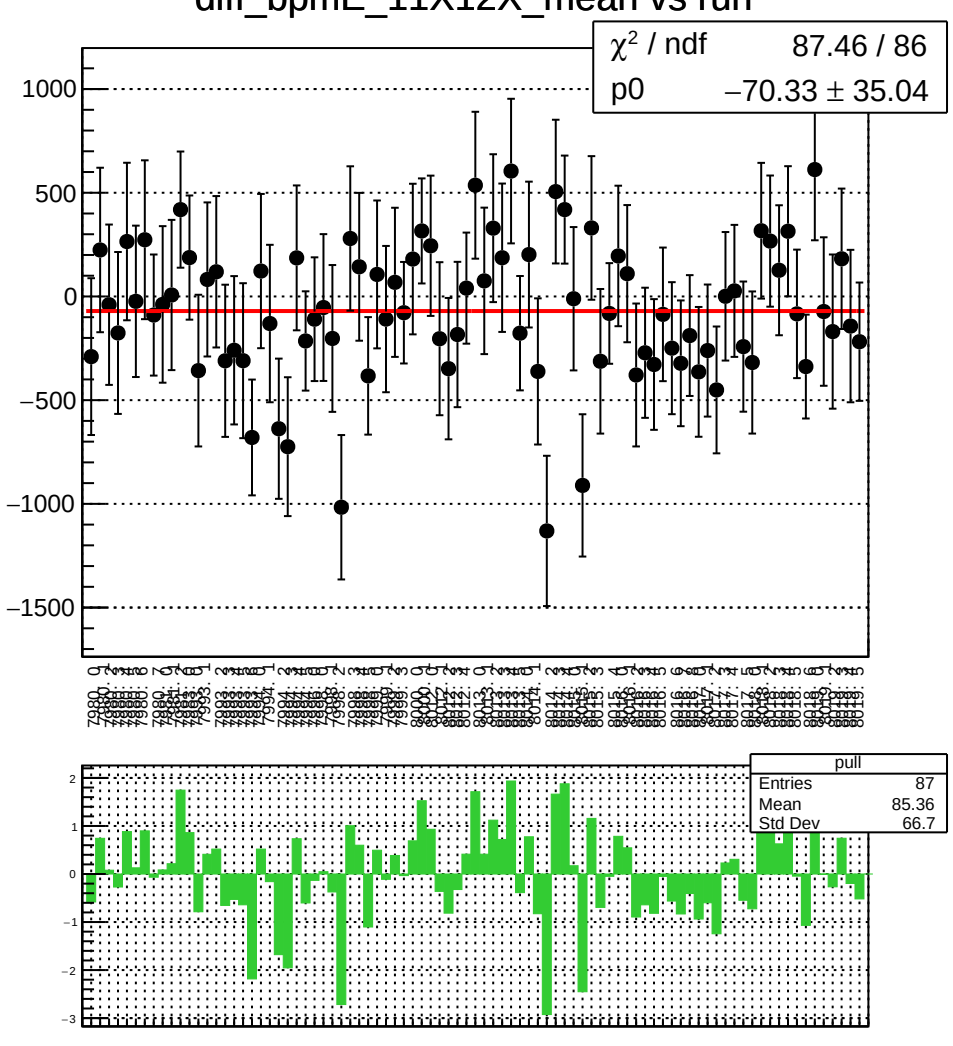

pull1D
Entries 87
Mean 0.003986
Std Dev 1.017

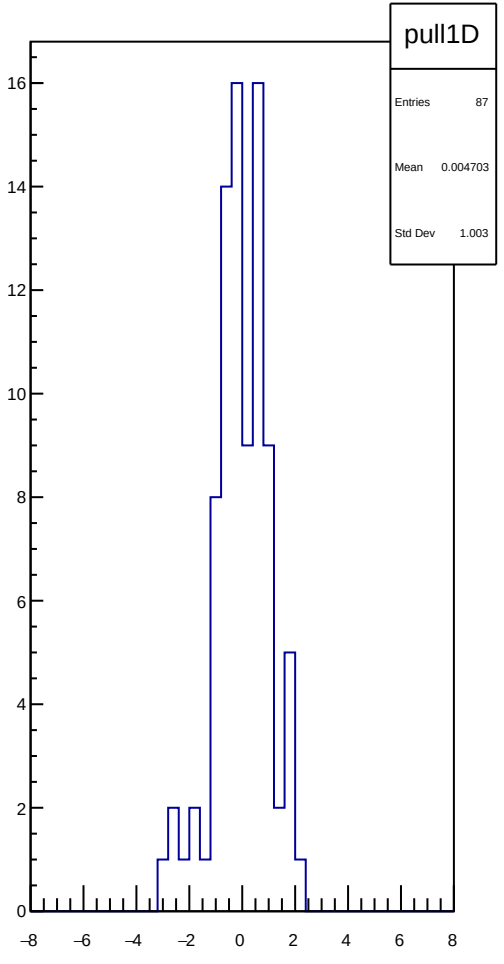

diff_bpmE_rms vs run
χ^2 / ndf 6199 / 86
p0 4.131e+04 ± 31.19
48000
46000
44000
42000
40000
38000
36000

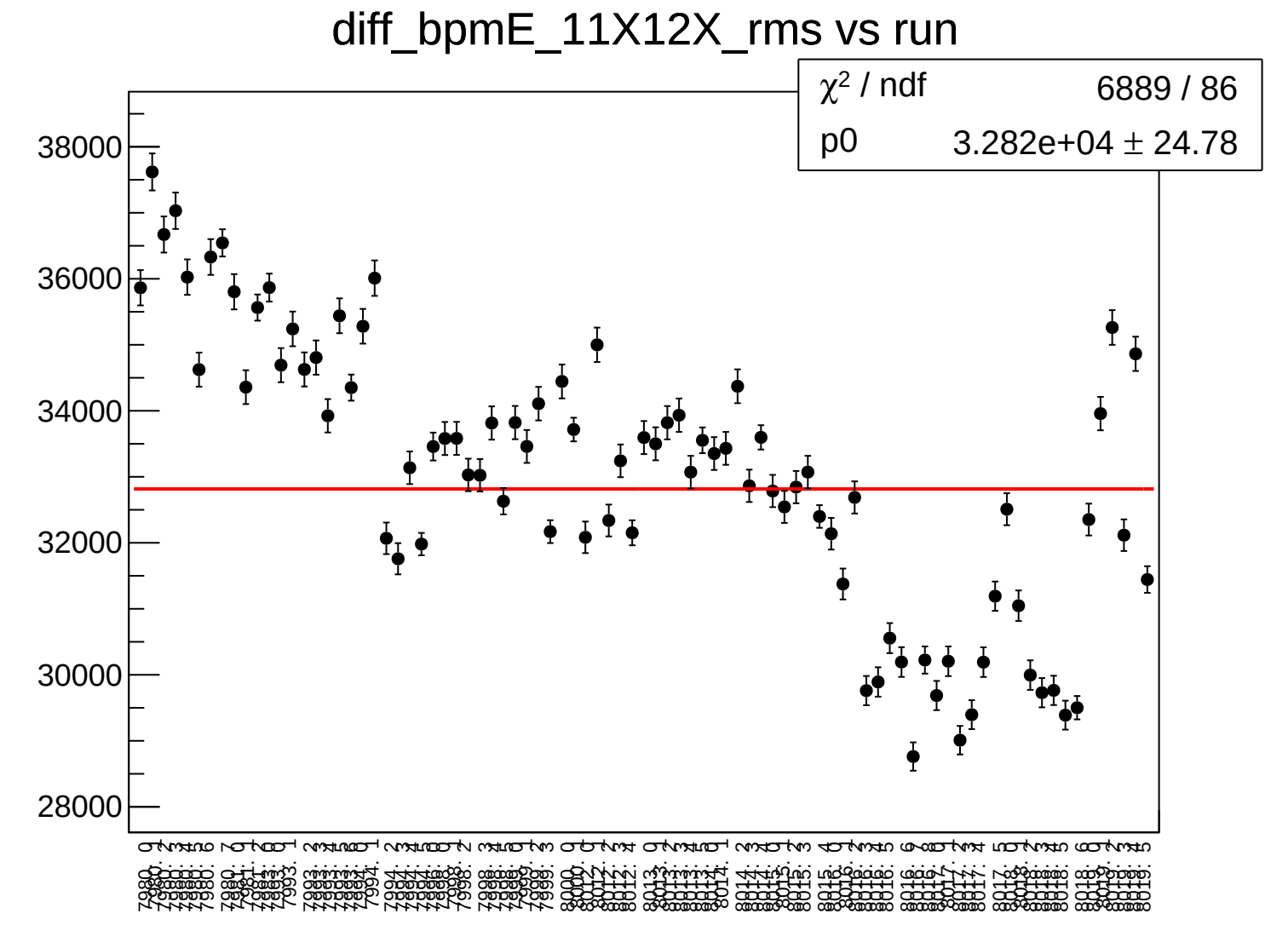

diff_bpmEX_mean vs run
χ² / ndf 89.9 / 86
p0 −85.56 ± 44.11
pull
Entries 87
Mean 63.51
Std Dev 87.84

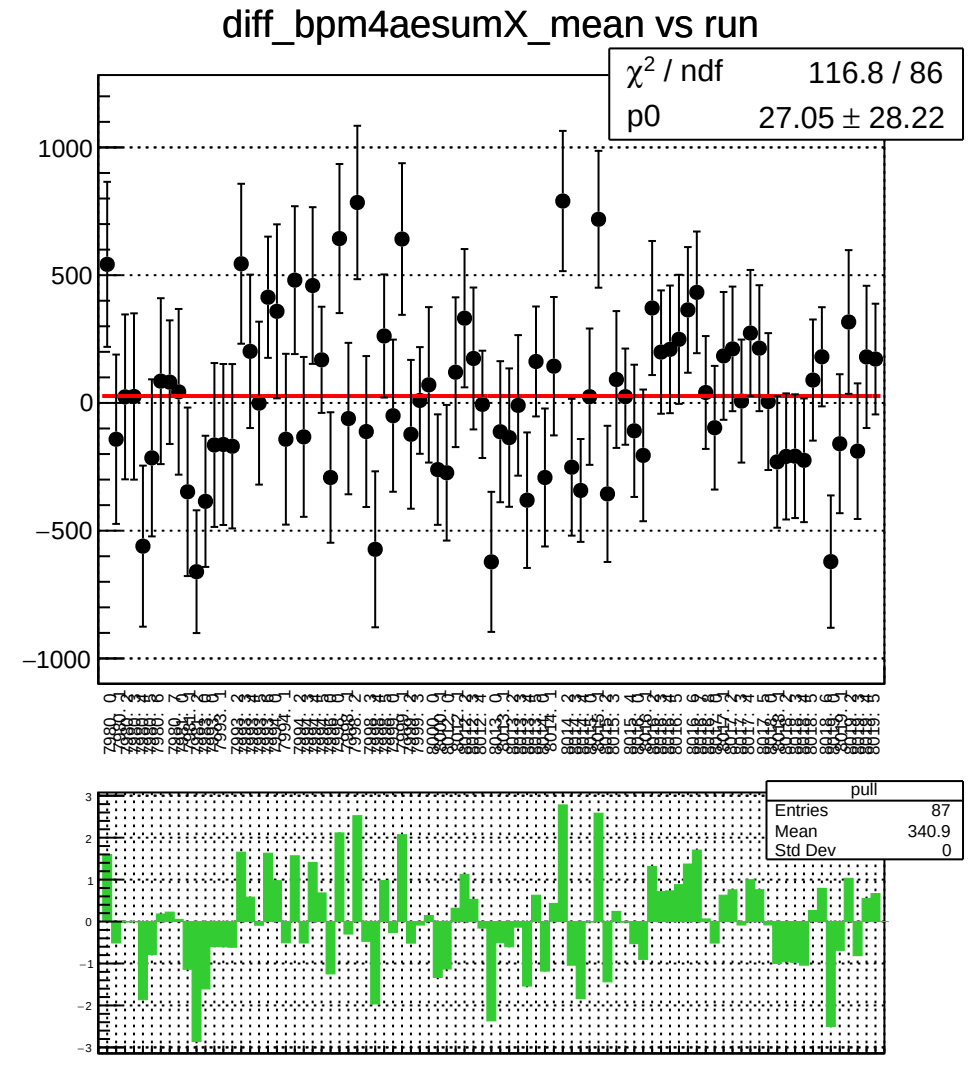

pull1D
Entries 87
Mean 0.003986
Std Dev 1.017

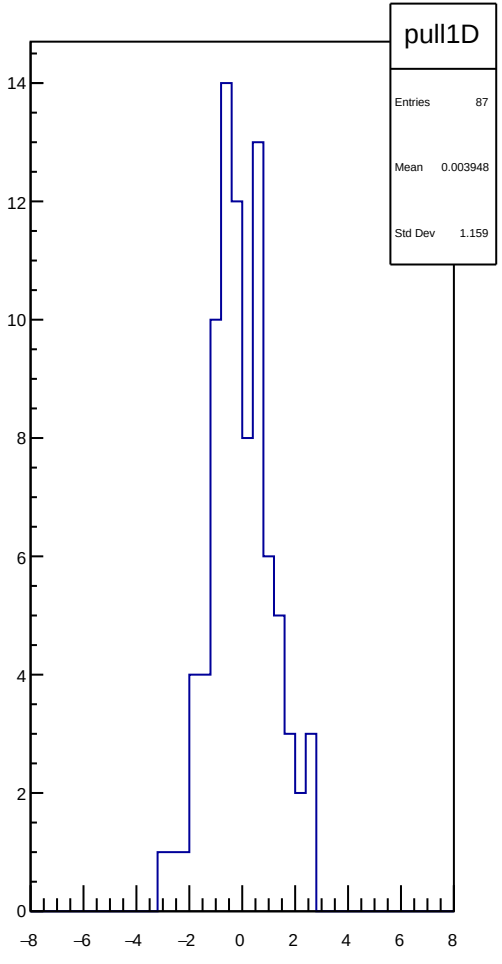

diff_bpmEX_rms vs run
χ² / ndf 6199 / 86
p0 4.131e+04 ± 31.19
48000
46000
44000
42000
40000
38000
36000

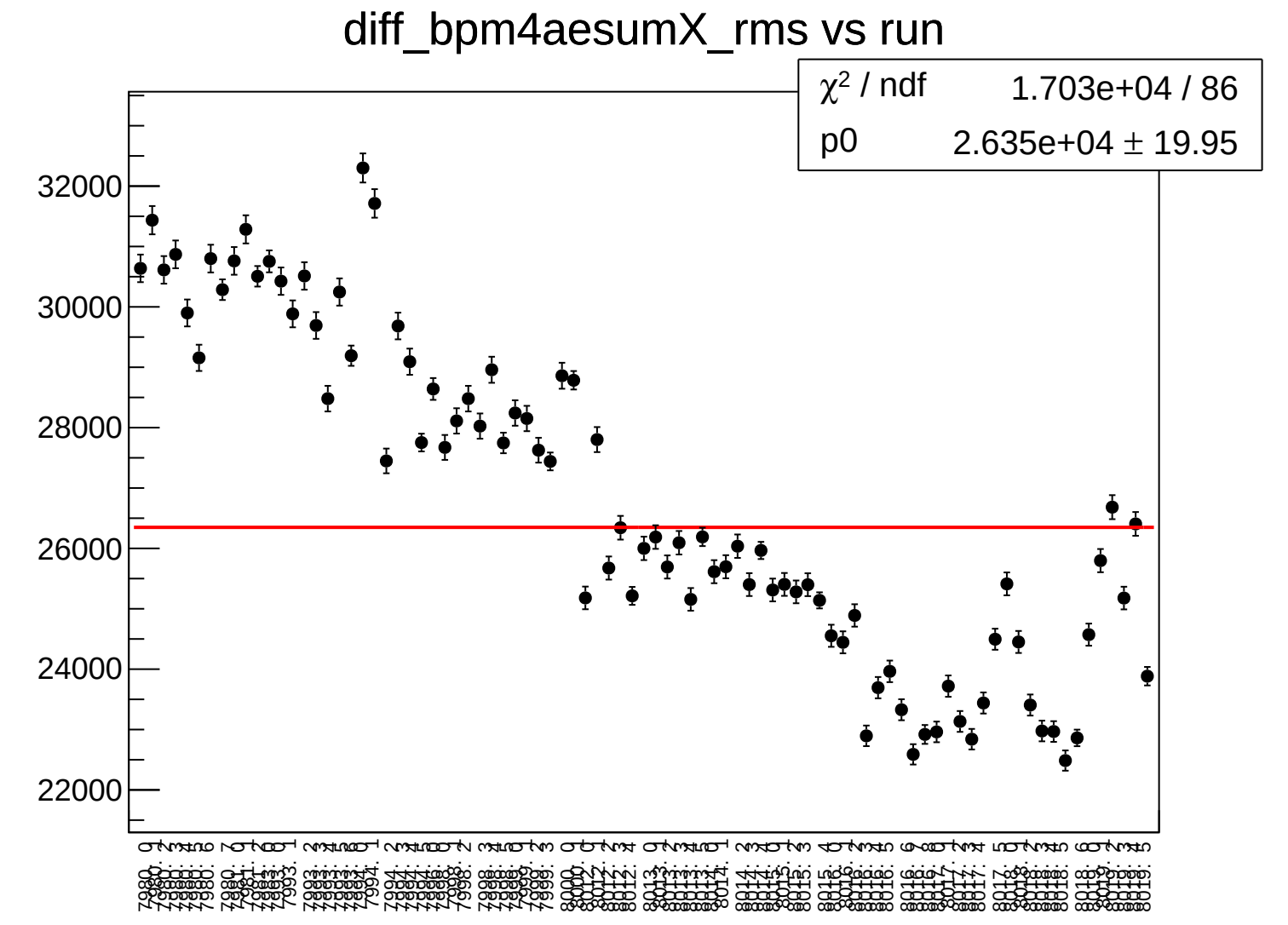

diff_bpmE_11X12X_mean vs run
χ² / ndf 87.46 / 86
p0 −70.33 ± 35.04
1000
500
0
−500
−1000
−1500
pull
Entries 87
Mean 85.36
Std Dev 66.7
2
1
0
−1
−2
−3

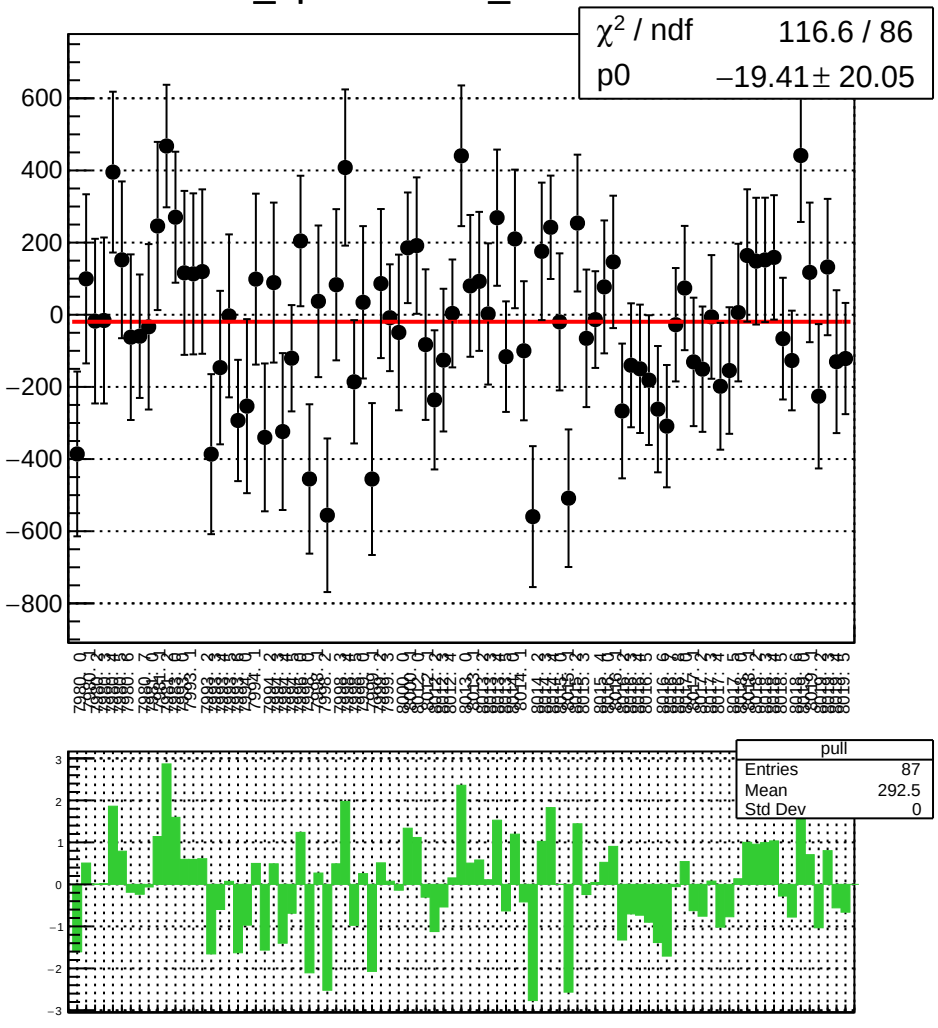

pull1D
Entries 87
Mean 0.004703
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

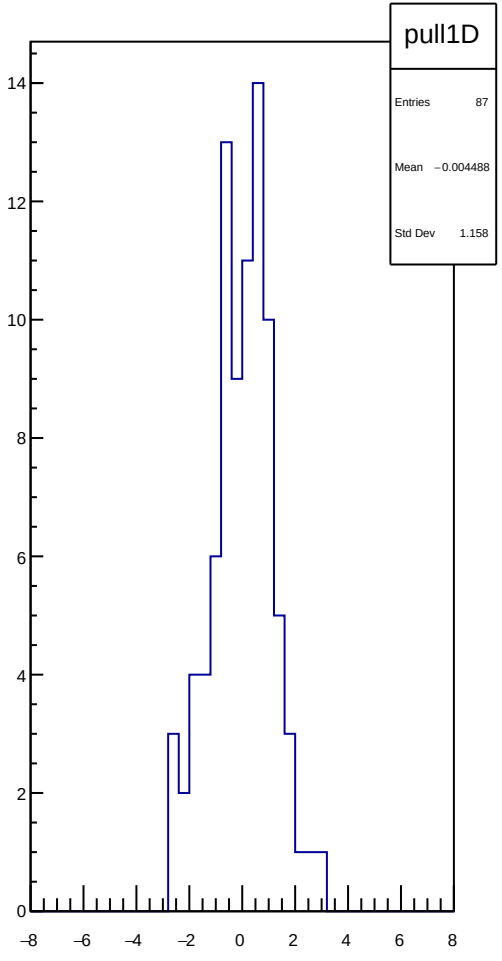

diff_bpmE_11X12X_rms vs run
χ² / ndf 6889 / 86
p0 3.282e+04 ± 24.78
38000
36000
34000
32000
30000
28000

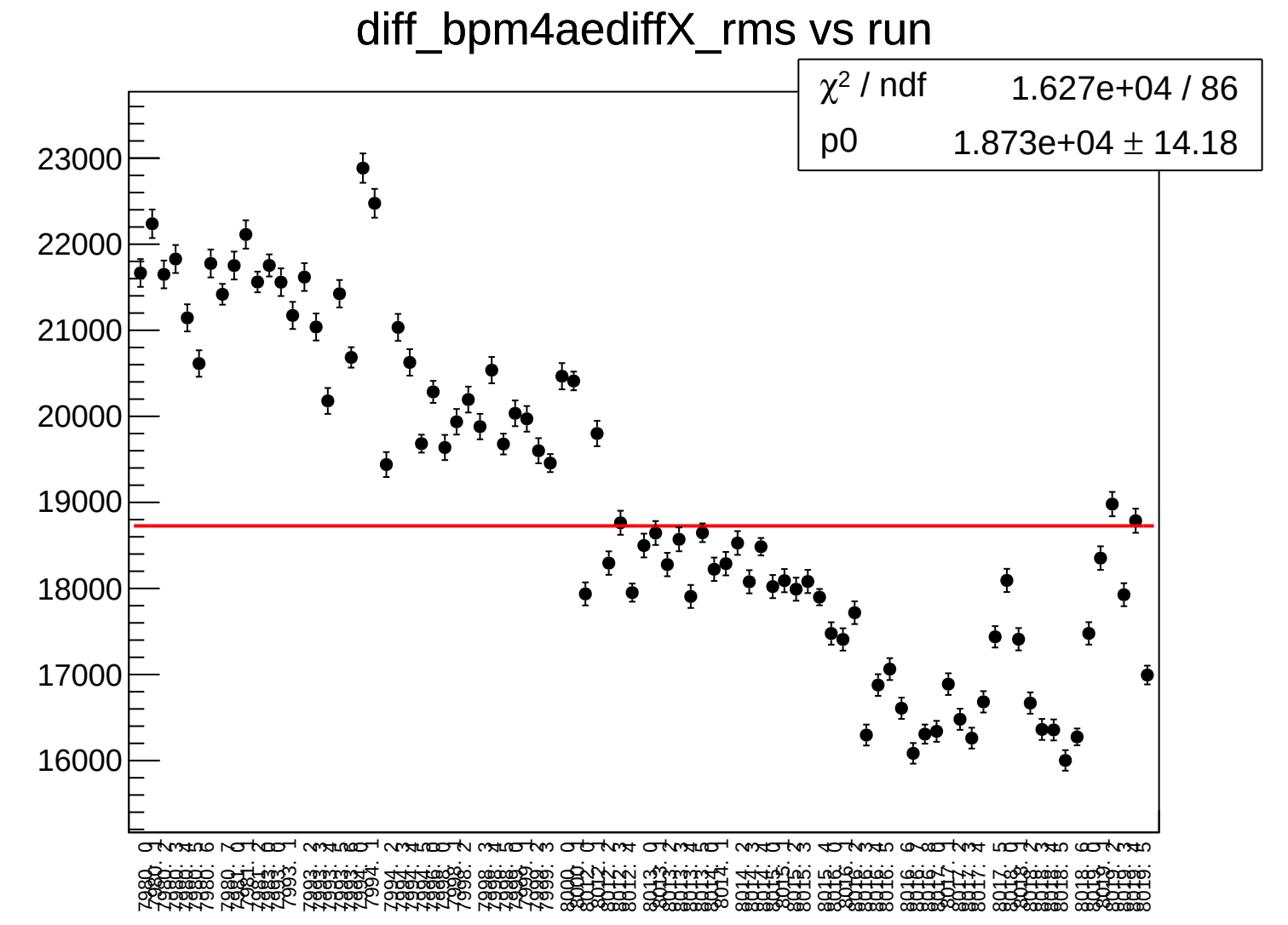

diff_bpm4aesumX_mean vs run
χ^2 / ndf 116.8 / 86
p0 27.05 ± 28.22
1000
500
0
−500
−1000
pull
Entries 87
Mean 340.9
Std Dev 0
3
2
1
0
−1
−2
−3

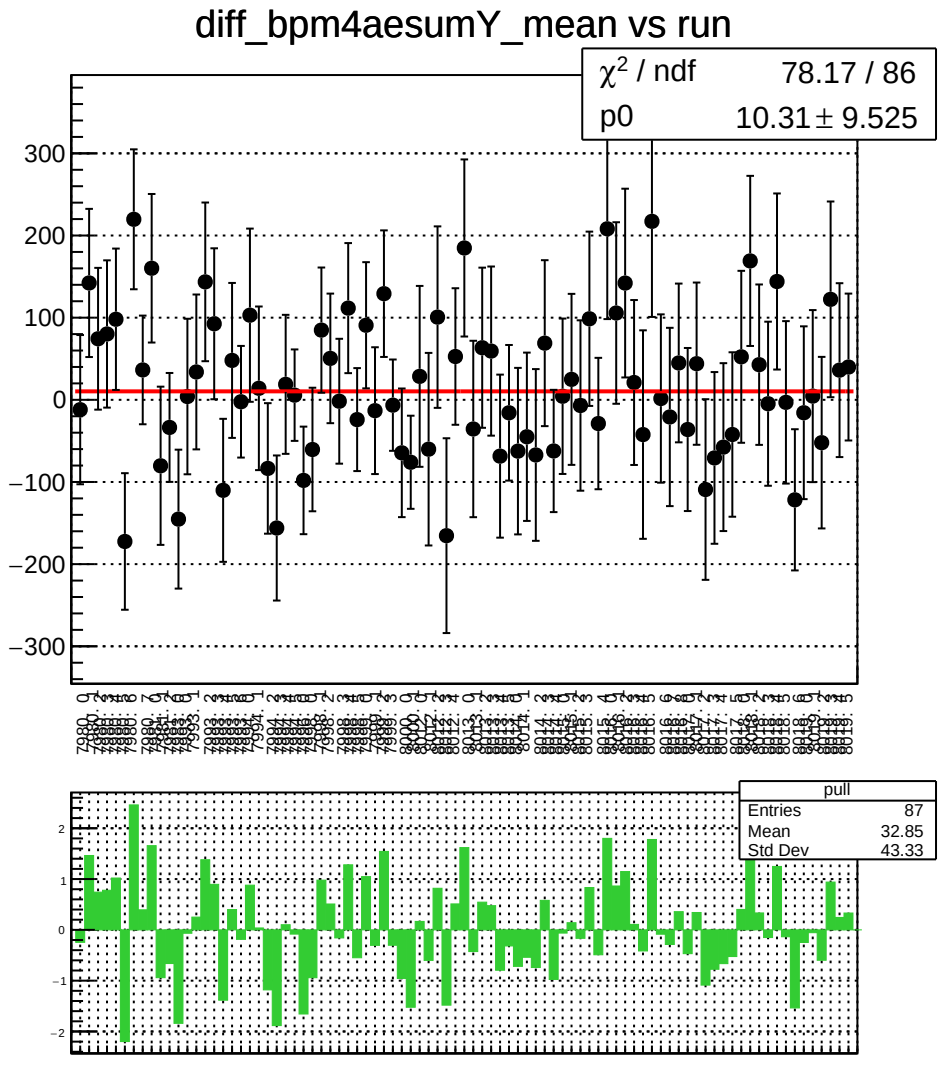

pull1D
Entries 87
Mean 0.003948
Std Dev 1.159
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

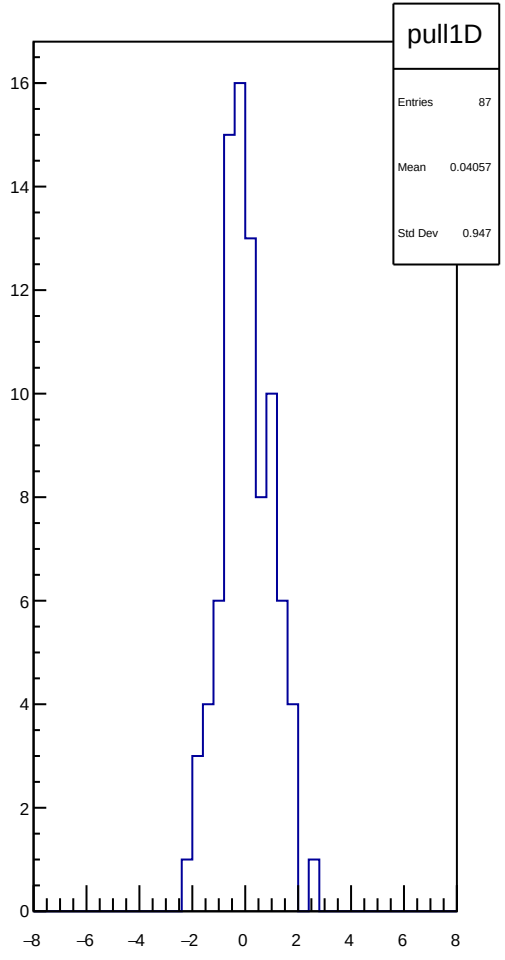

diff_bpm4aesumX_rms vs run
χ² / ndf 1.703e+04 / 86
p0 2.635e+04 ± 19.95
32000
30000
28000
26000
24000
22000

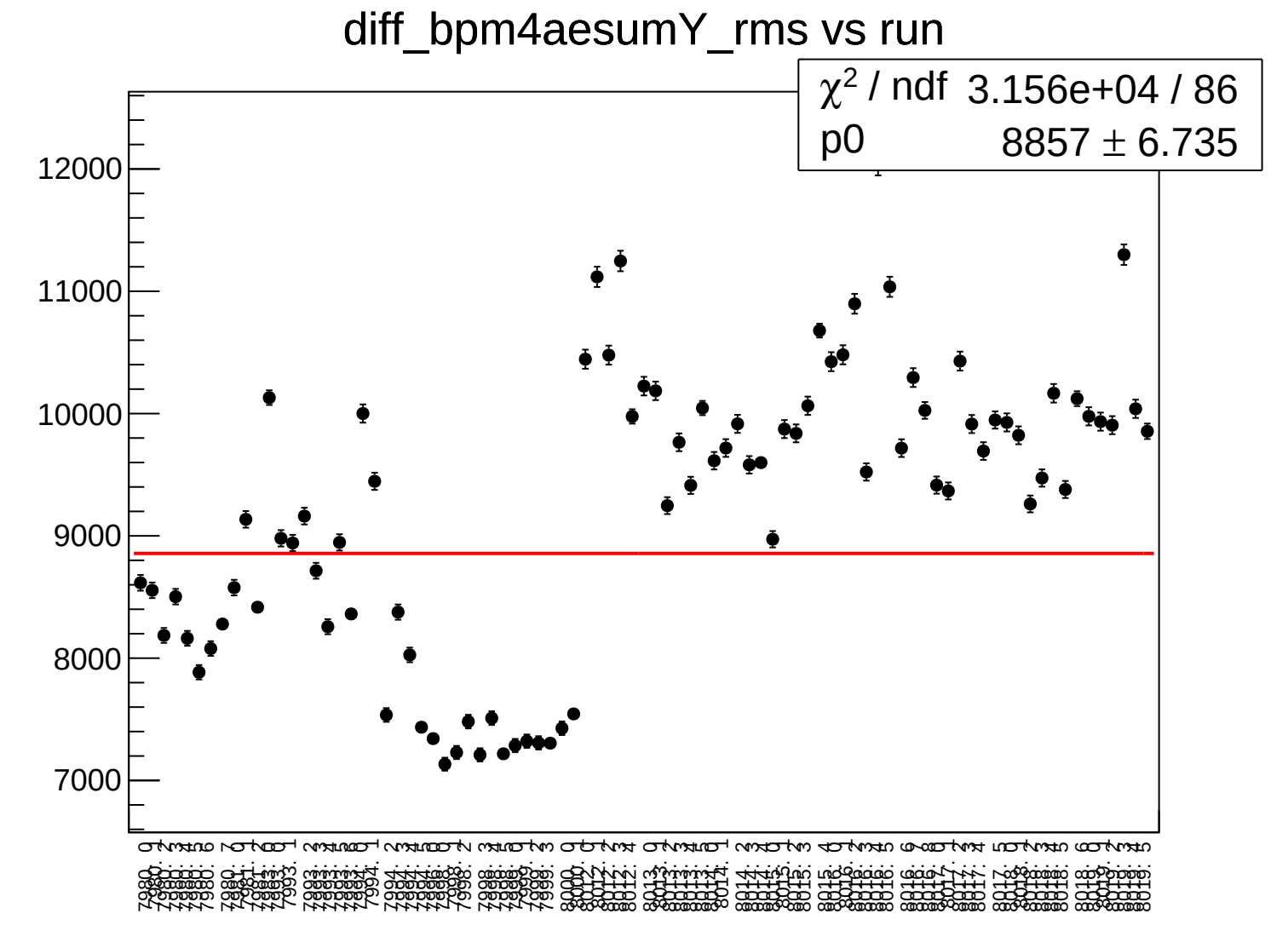

diff_bpm4aediffX_mean vs run
χ² / ndf 116.6 / 86
p0 −19.41± 20.05
pull
Entries 87
Mean 292.5
Std Dev 0

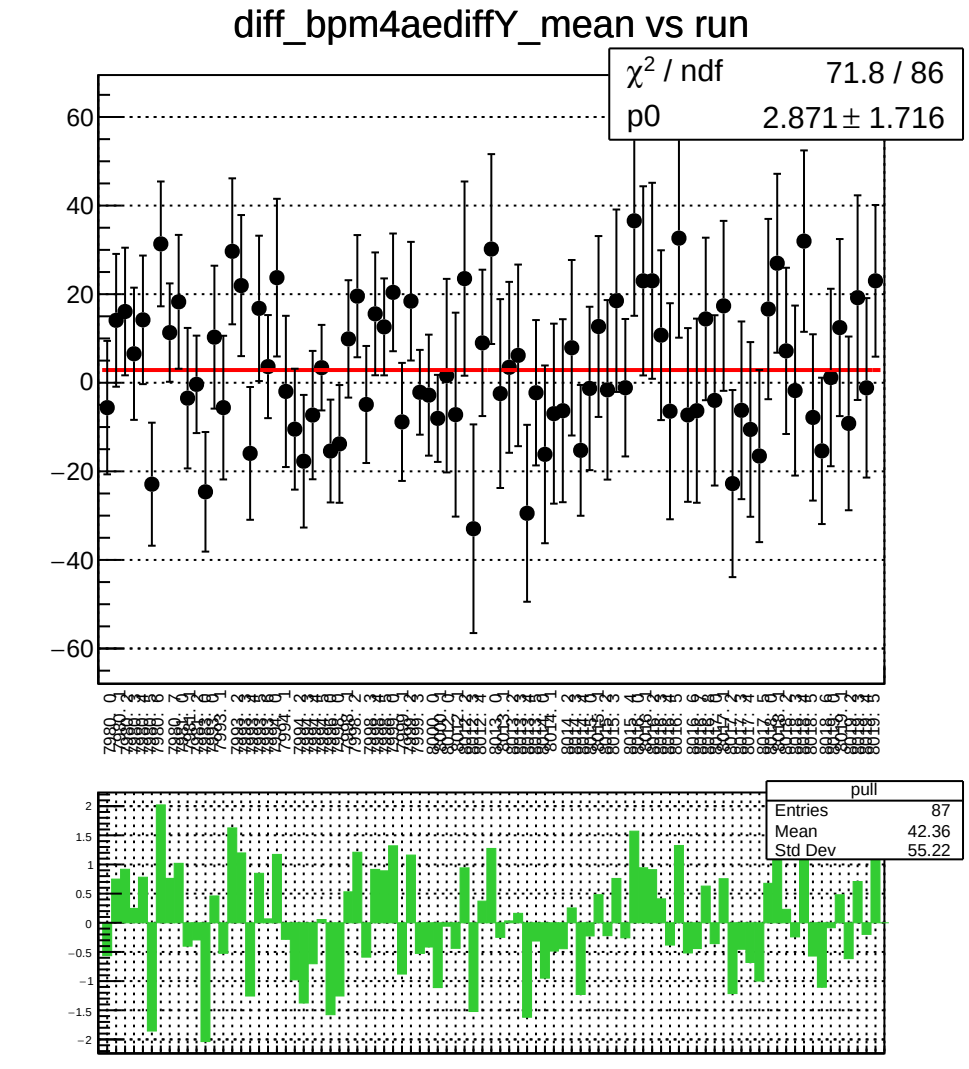

pull1D
Entries 87
Mean −0.004488
Std Dev 1.158

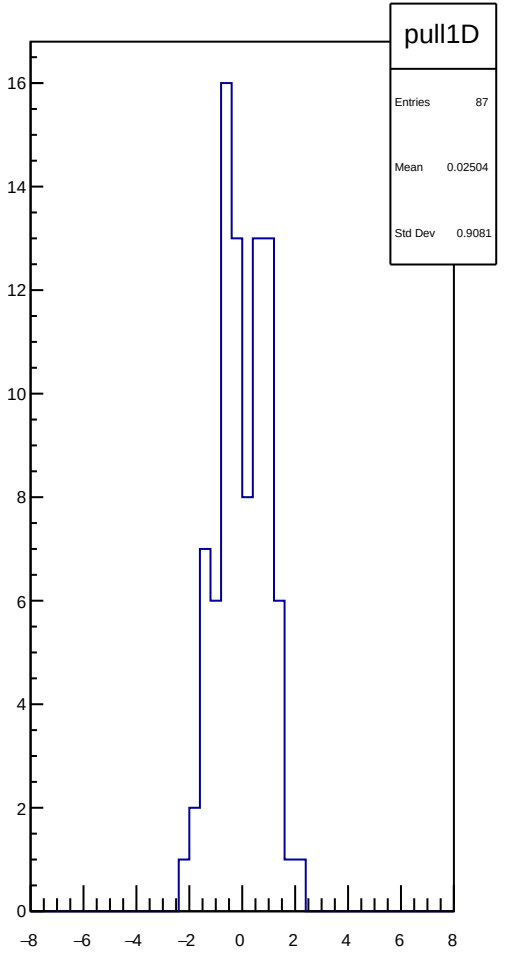

diff_bpm4aediffX_rms vs run
χ² / ndf 1.627e+04 / 86
p0 1.873e+04 ± 14.18
23000
22000
21000
20000
19000
18000
17000
16000

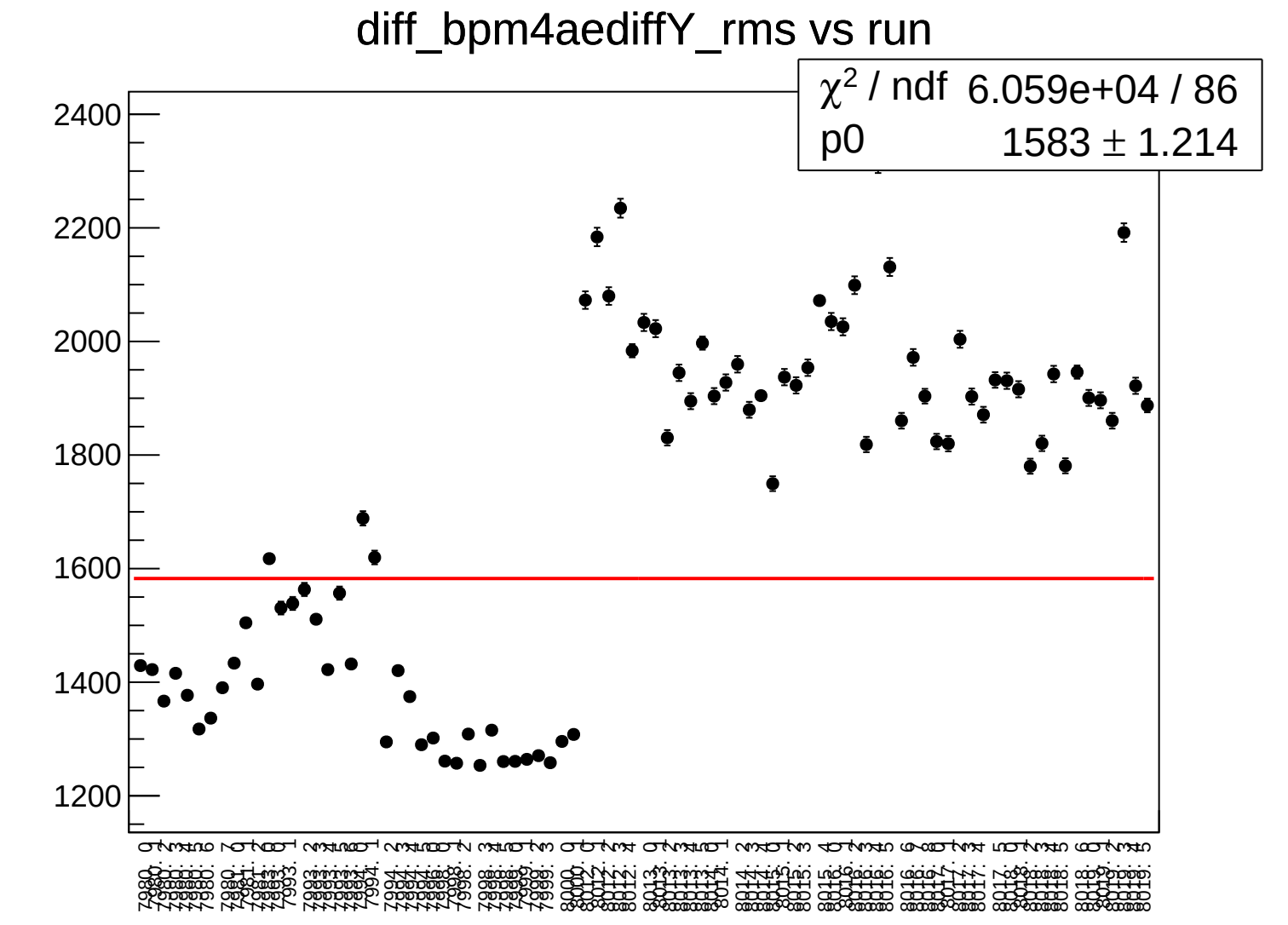

diff_bpm4aesumY_mean vs run
χ² / ndf 78.17 / 86
p0 10.31 ± 9.525
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean 32.85
Std Dev 43.33
2
1
0
−1
−2

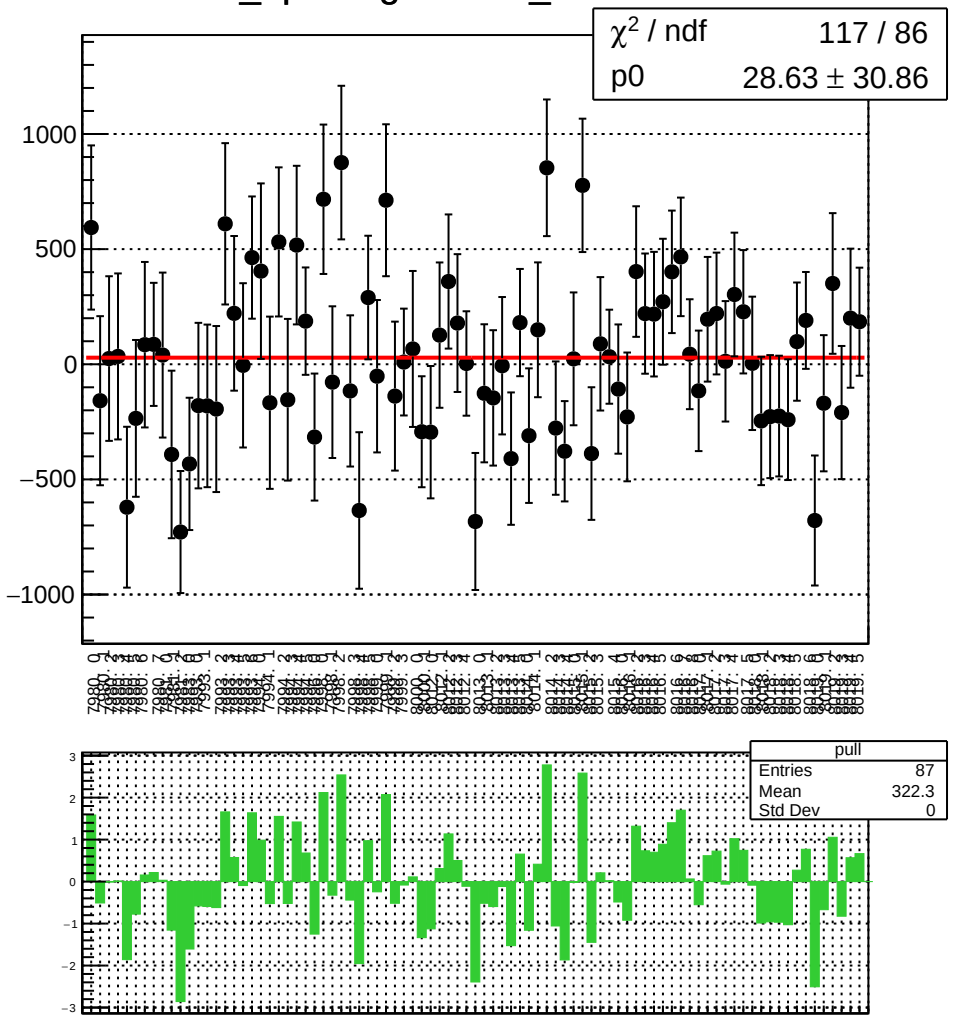

pull1D
Entries 87
Mean 0.04057
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

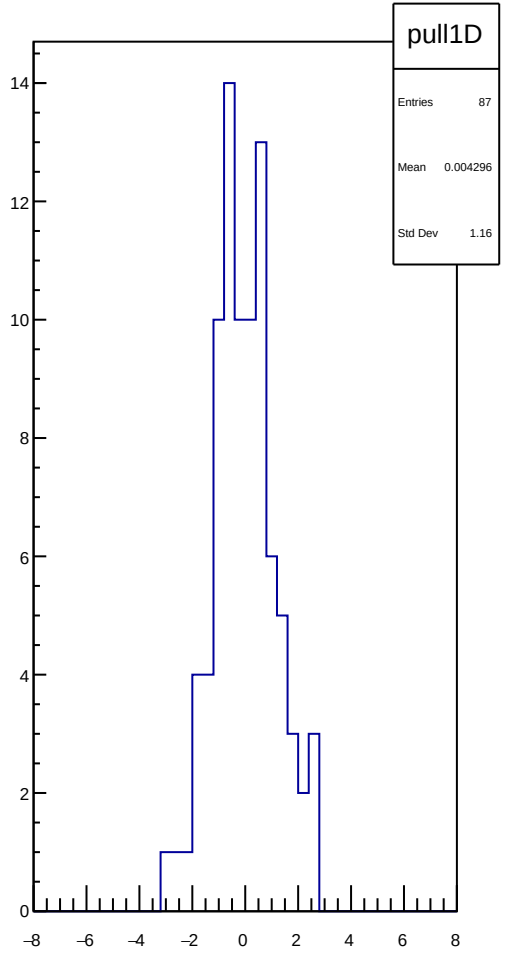

diff_bpm4aesumY_rms vs run
χ² / ndf 3.156e+04 / 86
p0 8857 ± 6.735
12000
11000
10000
9000
8000
7000

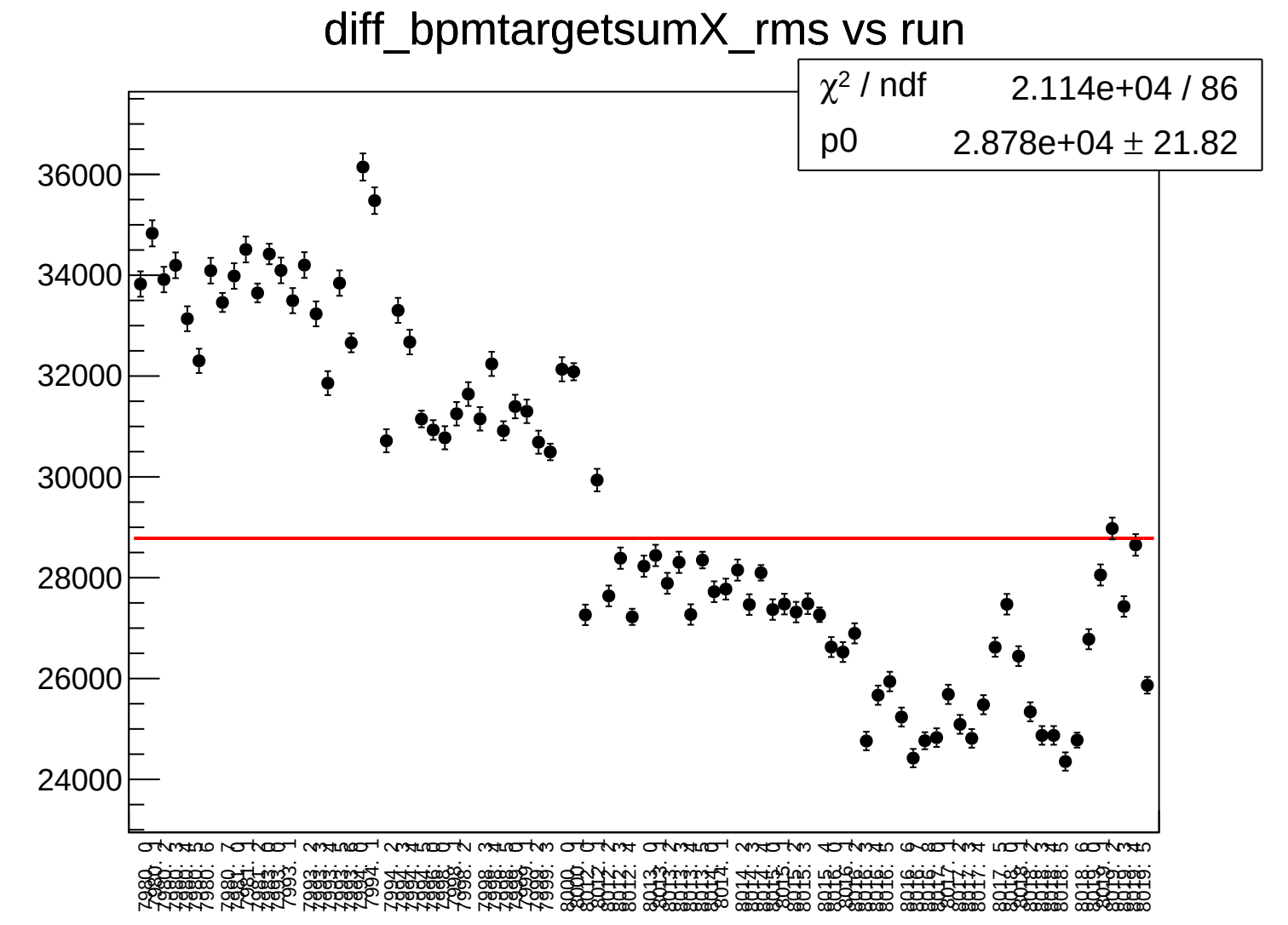

diff_bpm4aediffY_mean vs run
χ² / ndf 71.8 / 86
p0 2.871 ± 1.716
pull
Entries 87
Mean 42.36
Std Dev 55.22

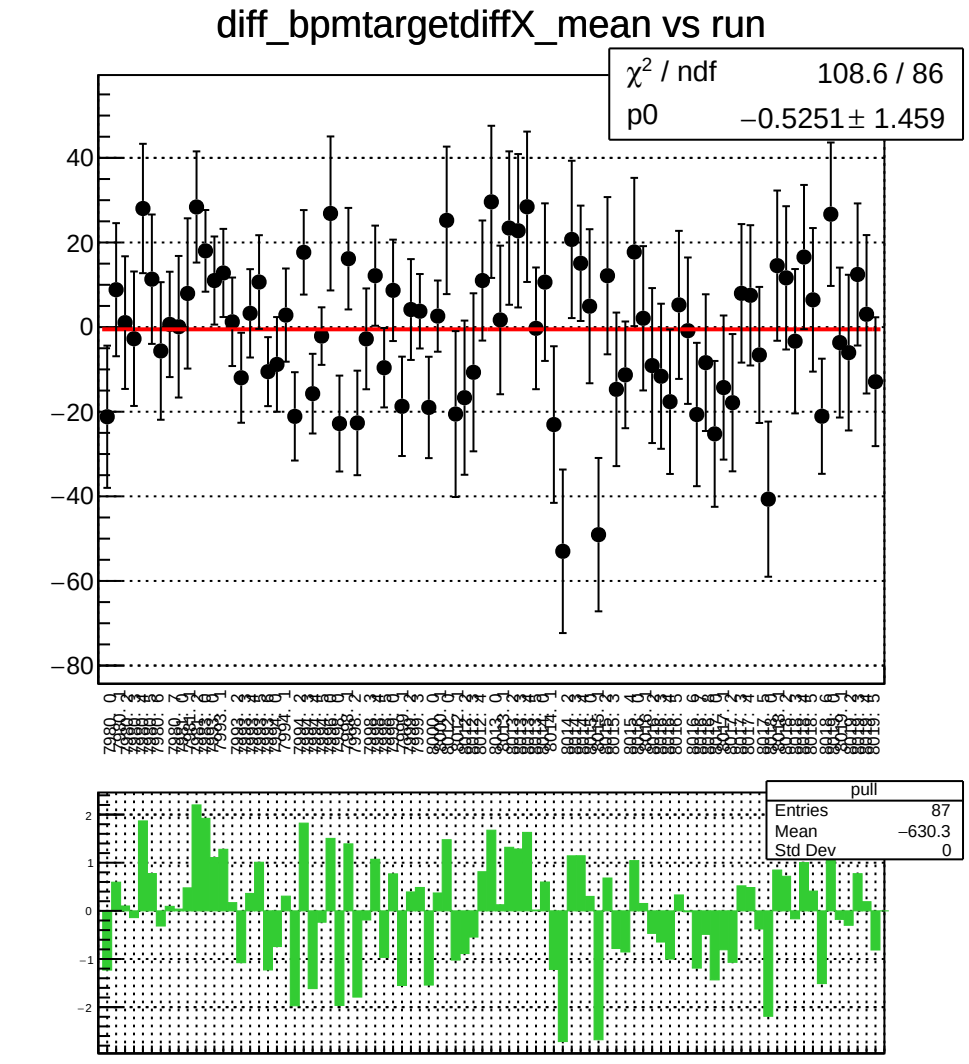

pull1D
Entries 87
Mean 0.02504
Std Dev 0.9081

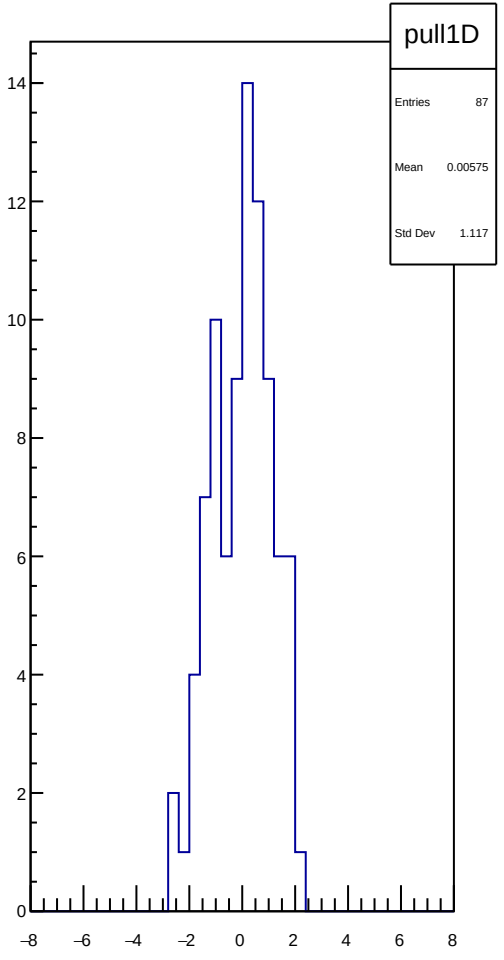

diff_bpm4aediffY_rms vs run
χ² / ndf 6.059e+04 / 86
p0 1583 ± 1.214
2400
2200
2000
1800
1600
1400
1200

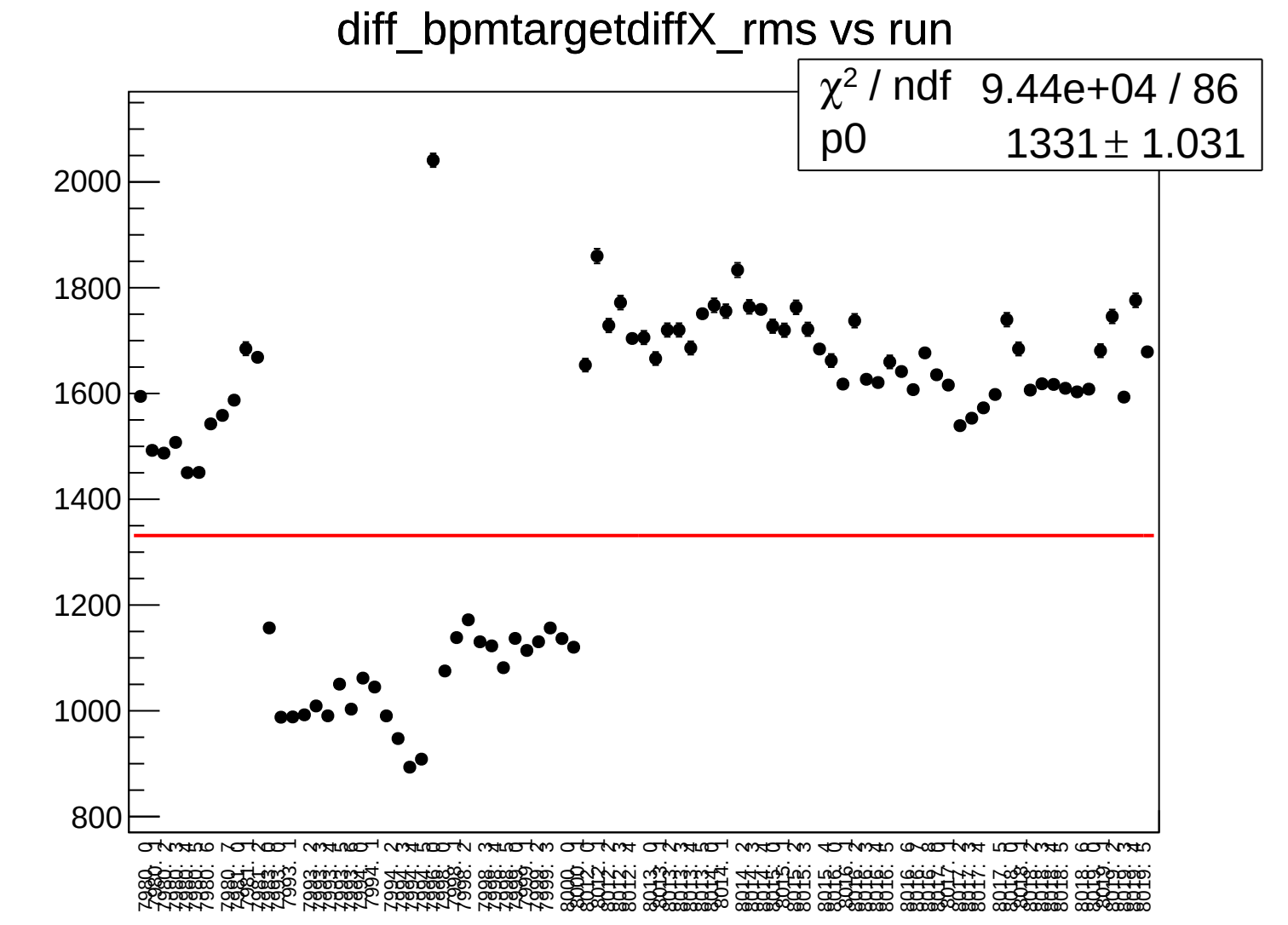

diff_bpmtargetsumX_mean vs run
χ² / ndf 117 / 86
p0 28.63 ± 30.86
1000
500
0
−500
−1000
pull
Entries 87
Mean 322.3
Std Dev 0
3
2
1
0
−1
−2
−3

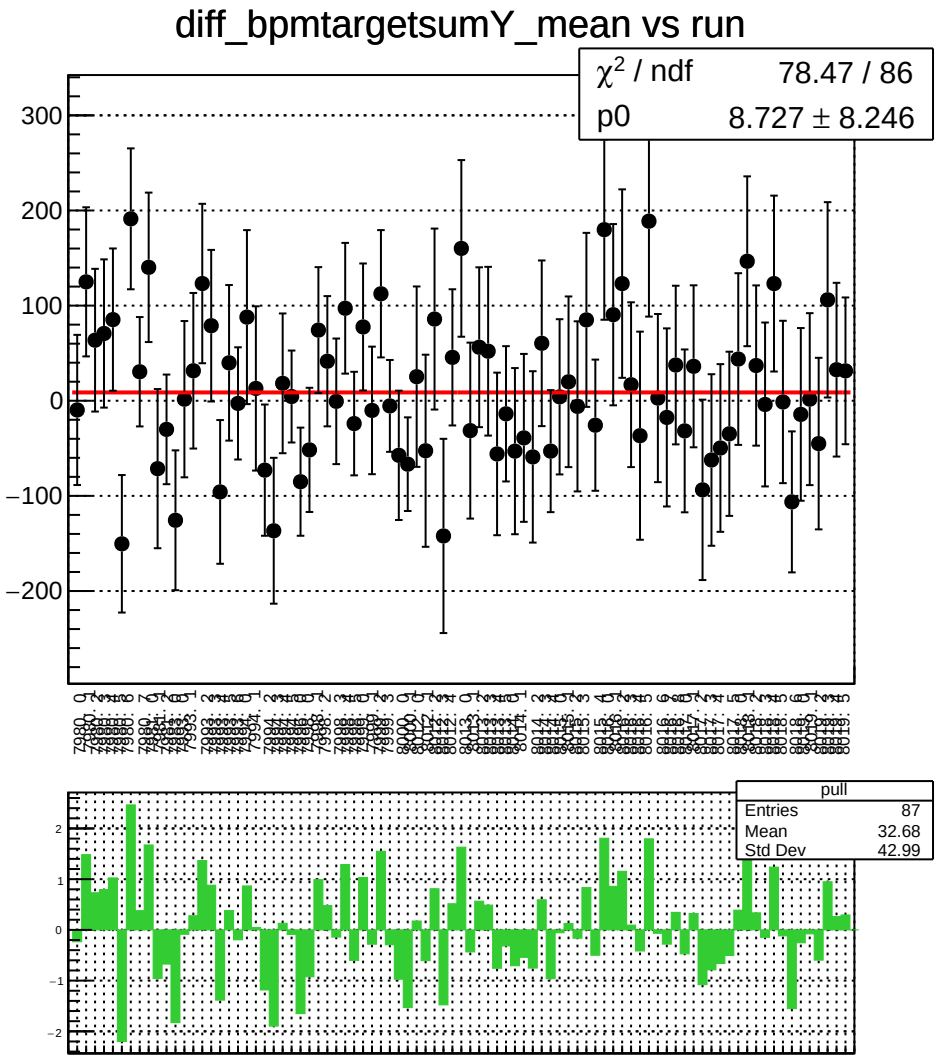

pull1D
Entries 87
Mean 0.004296
Std Dev 1.16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

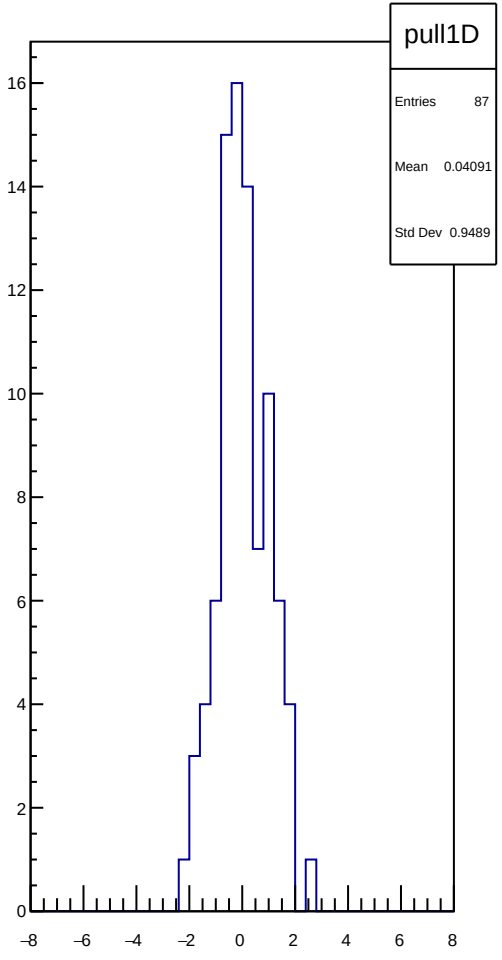

diff_bpmtargetsumX_rms vs run
χ² / ndf 2.114e+04 / 86
p0 2.878e+04 ± 21.82
36000
34000
32000
30000
28000
26000
24000

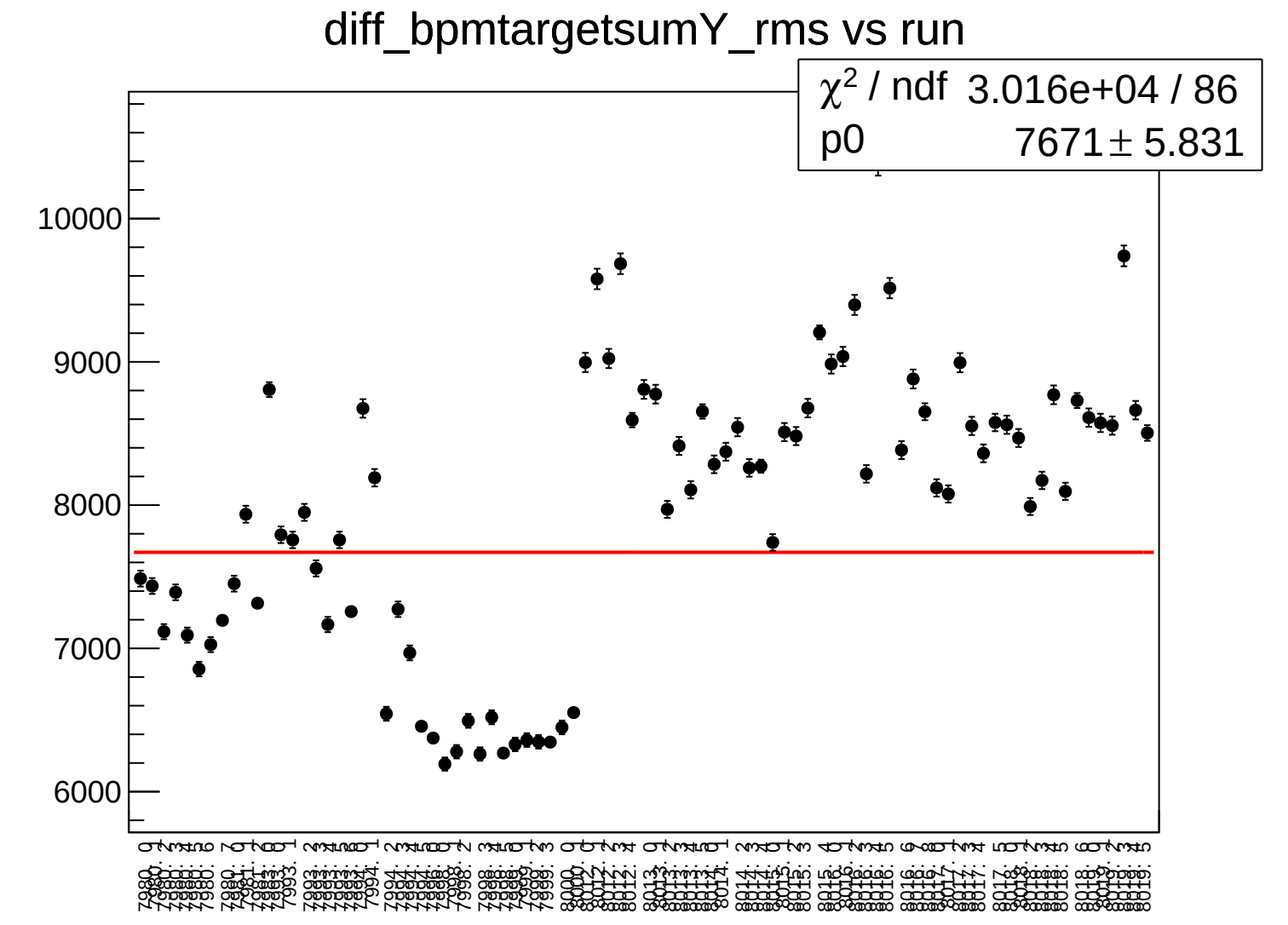

diff_bpmtargetdiffX_mean vs run
χ² / ndf 108.6 / 86
p0 −0.5251 ± 1.459
pull
Entries 87
Mean −630.3
Std Dev 0

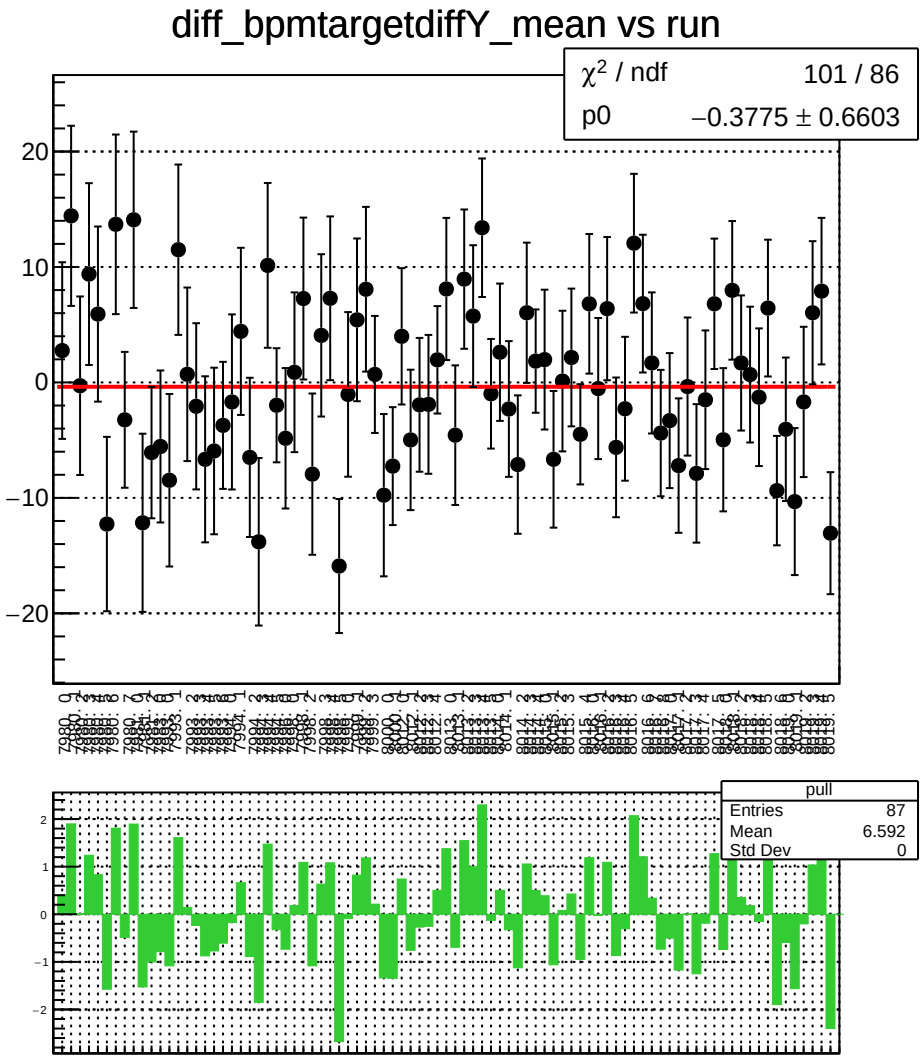

pull1D
Entries 87
Mean 0.00575
Std Dev 1.117

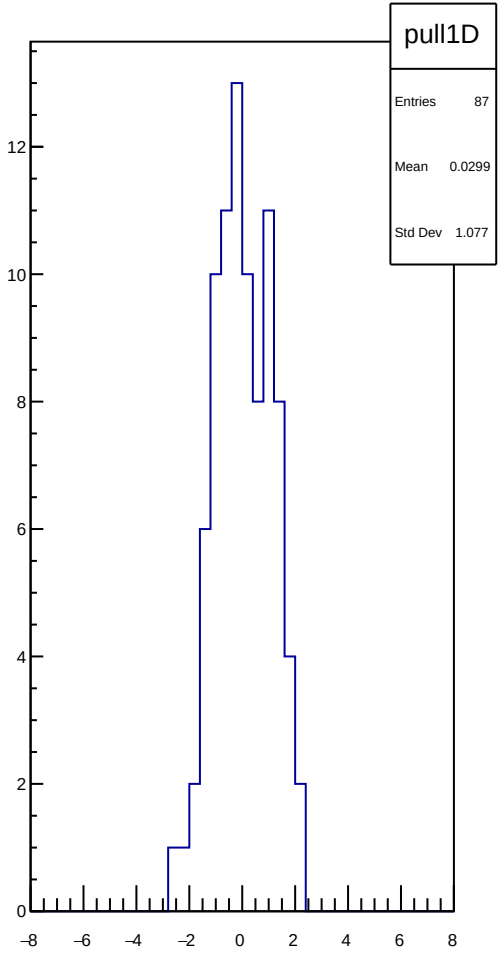

diff_bpmtargetdiffX_rms vs run
χ² / ndf 9.44e+04 / 86
p0 1331 ± 1.031
2000
1800
1600
1400
1200
1000
800

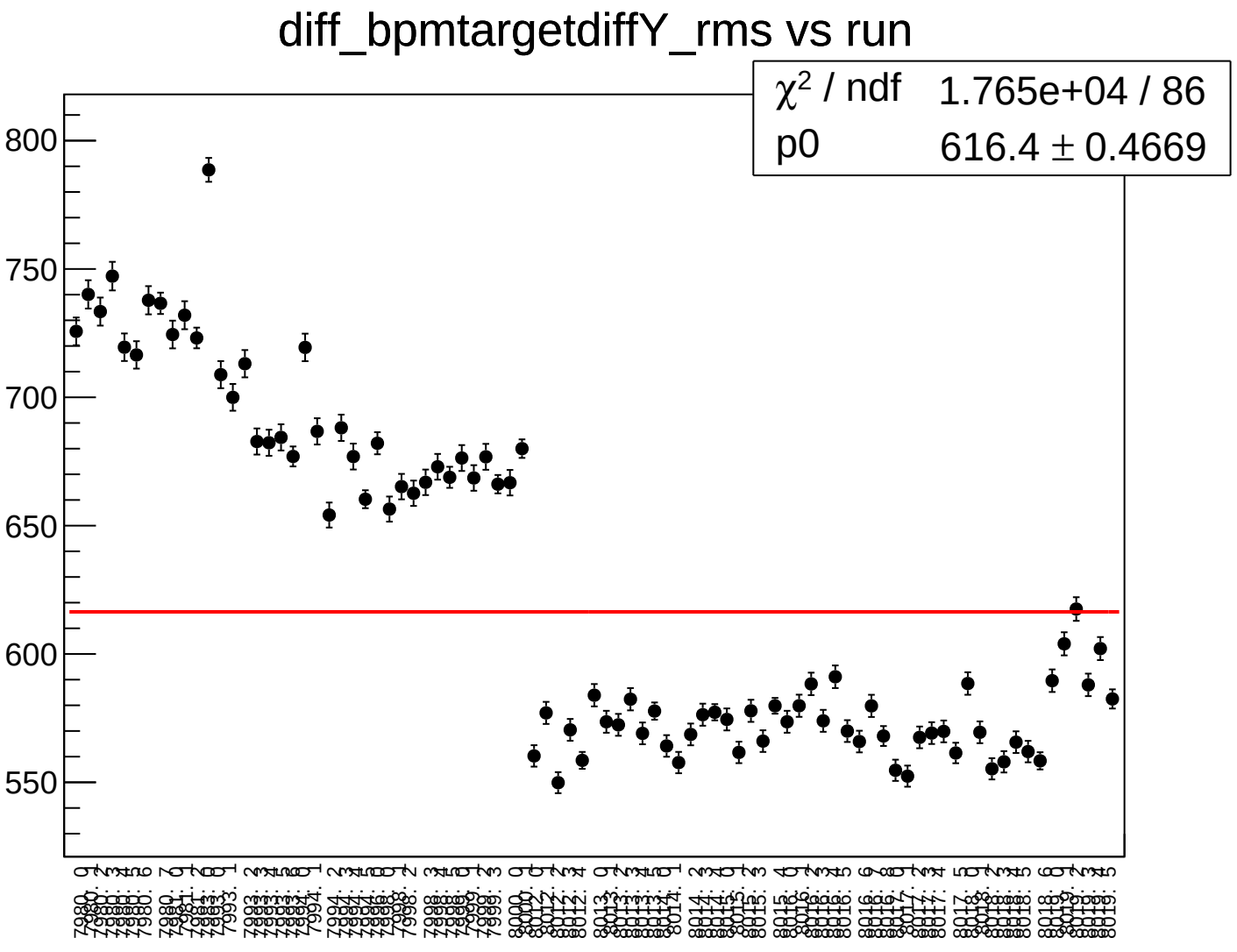

diff_bpmtargetsumY_mean vs run
χ^2 / ndf 78.47 / 86
p0 8.727 ± 8.246
pull
Entries 87
Mean 32.68
Std Dev 42.99

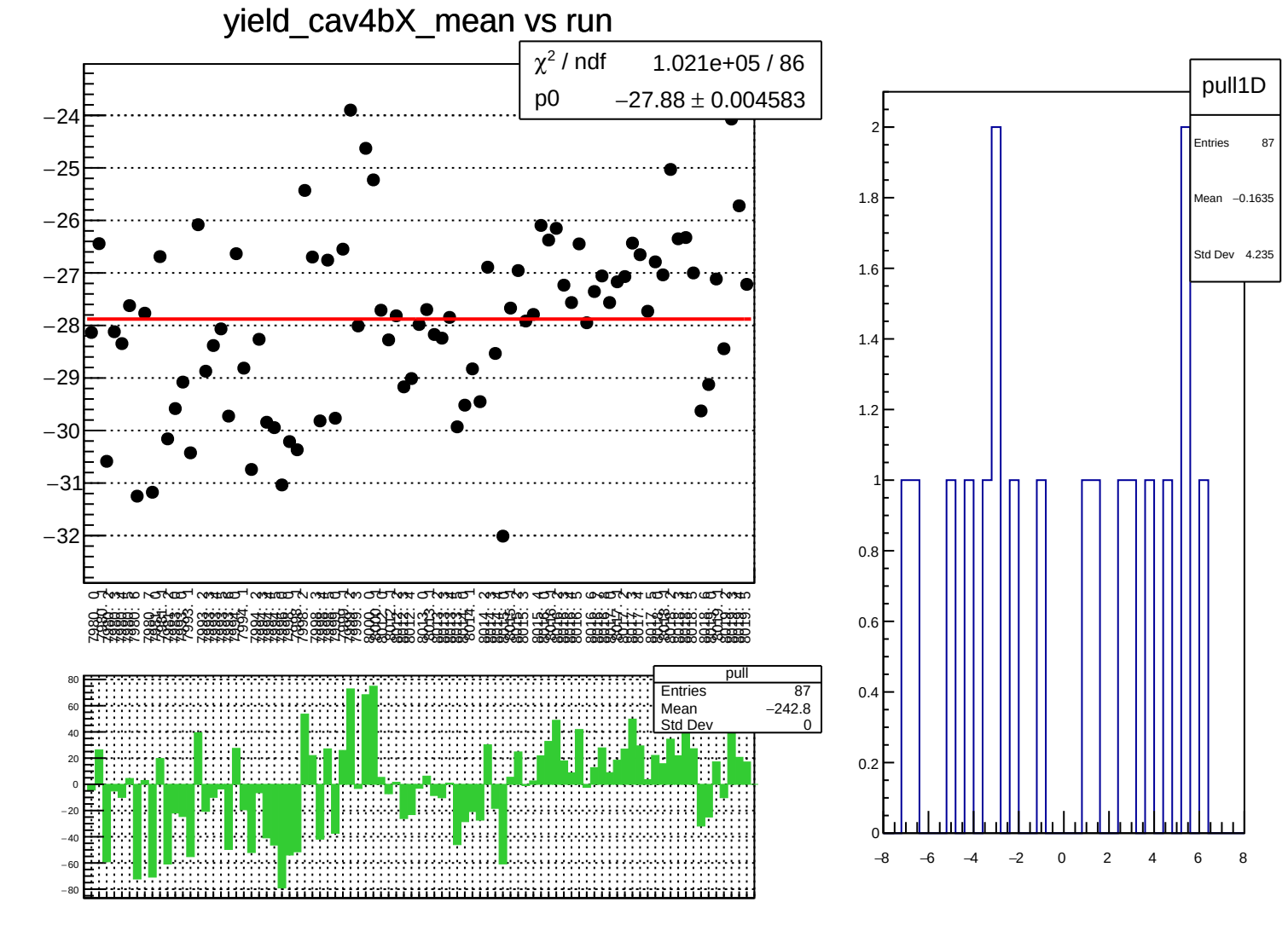

pull1D
Entries 87
Mean 0.04091
Std Dev 0.9489

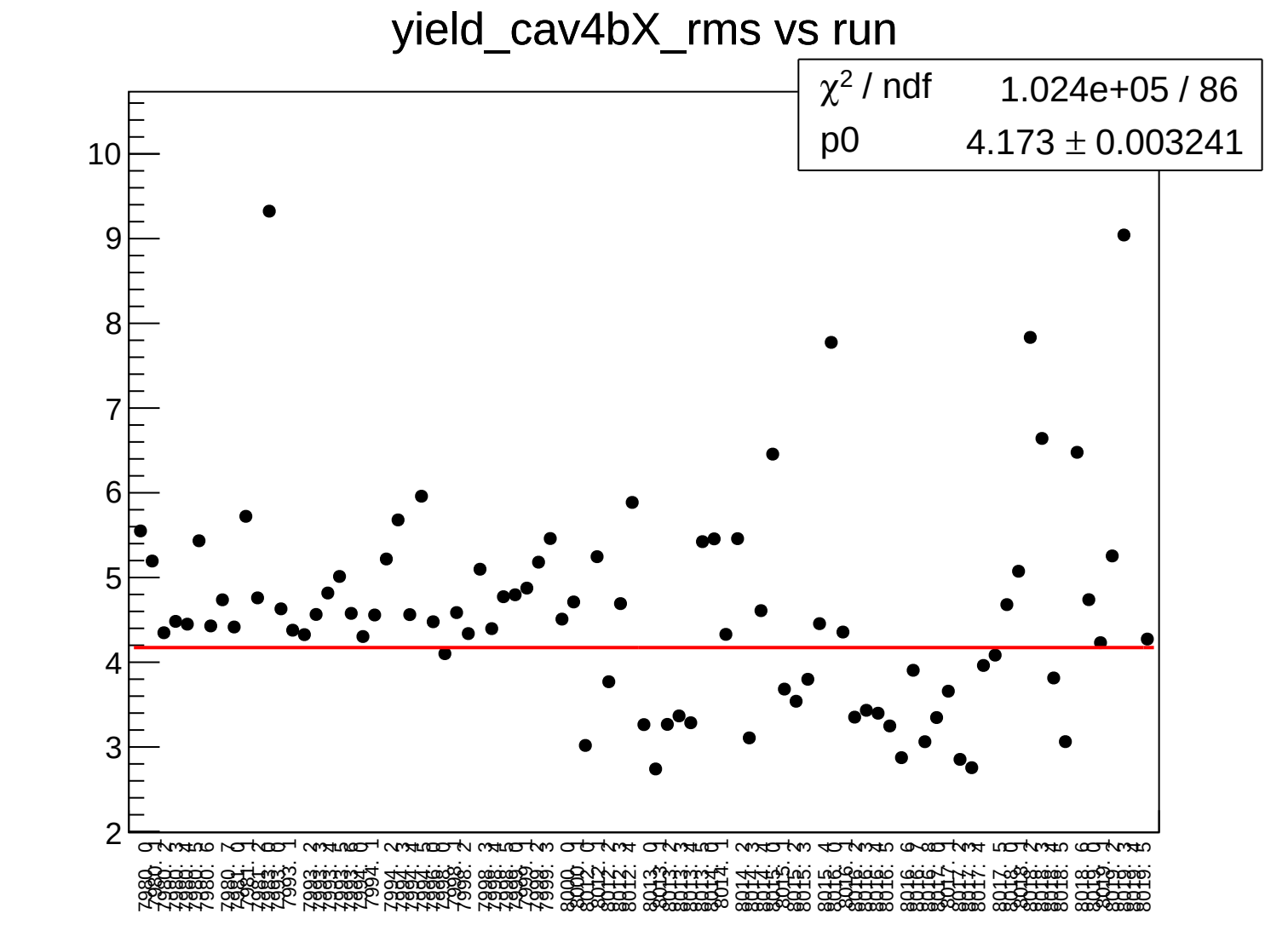

diff_bpmtargetsumY_rms vs run
χ² / ndf 3.016e+04 / 86
p0 7671 ± 5.831
10000
9000
8000
7000
6000

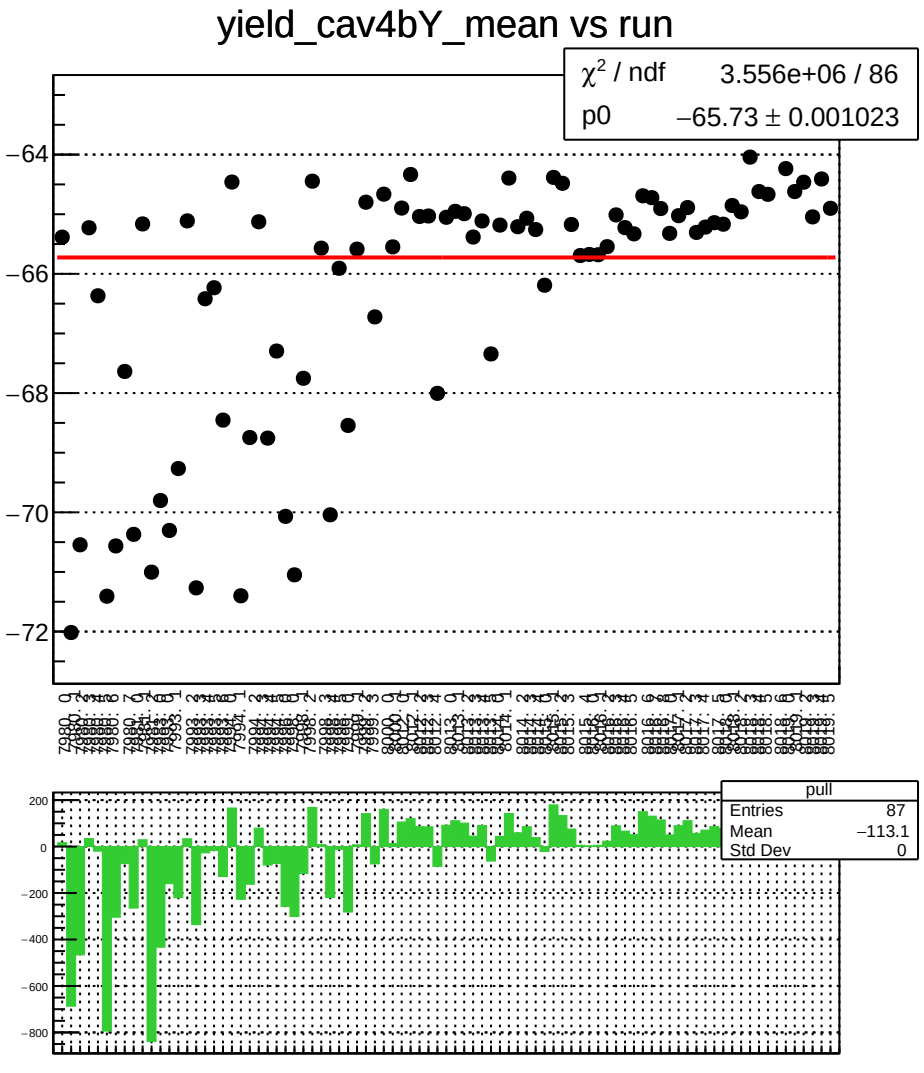

diff_bpmtargetdiffY_mean vs run
χ² / ndf 101 / 86
p0 −0.3775 ± 0.6603
pull
Entries 87
Mean 6.592
Std Dev 0

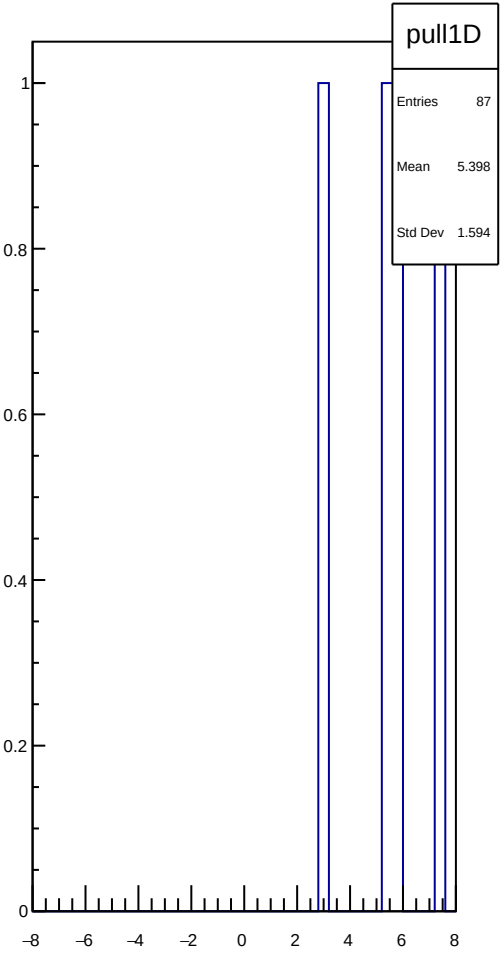

pull1D
Entries 87
Mean 0.0299
Std Dev 1.077

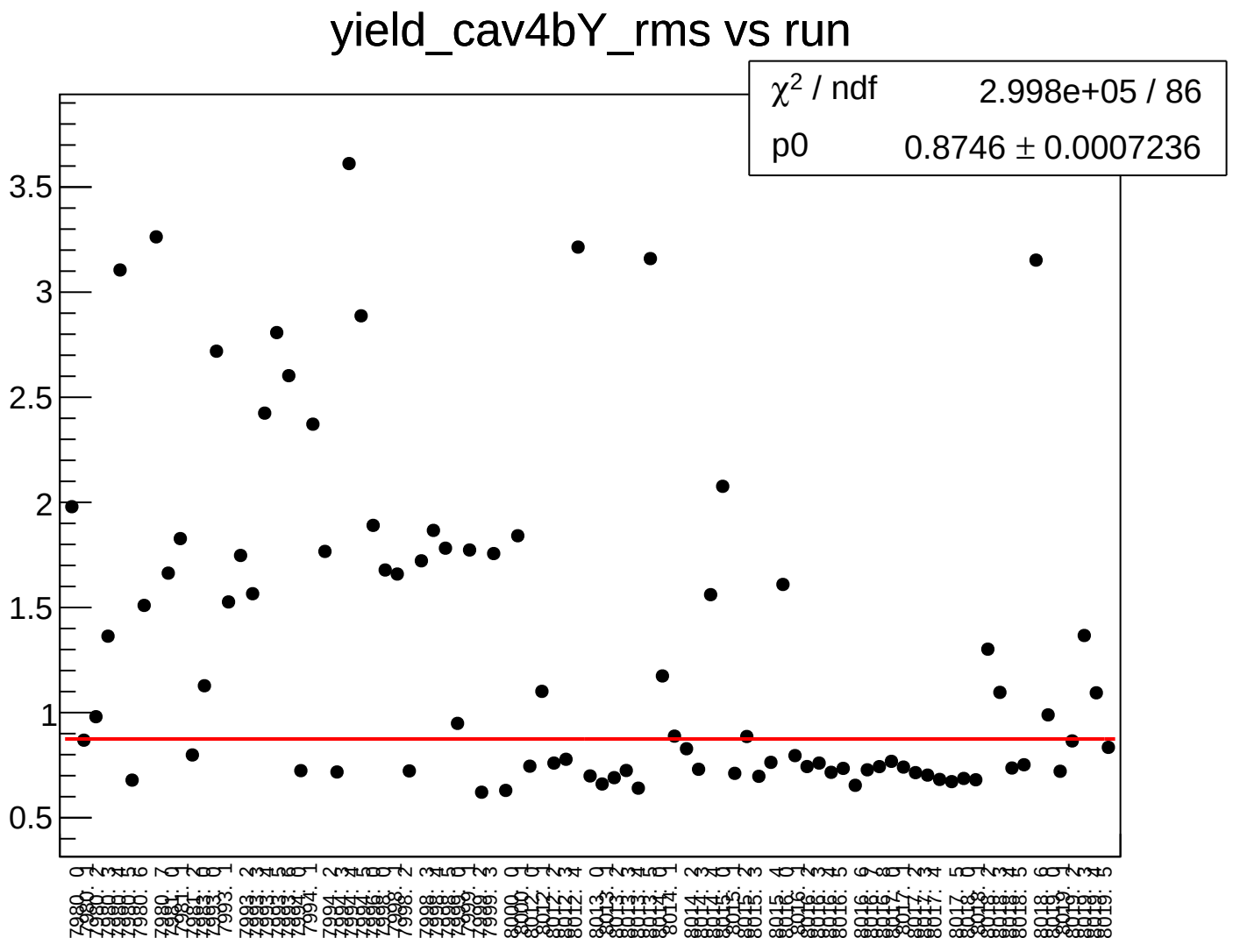

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.765e+04 / 86
p0 616.4 ± 0.4669
800
750
700
650
600
550

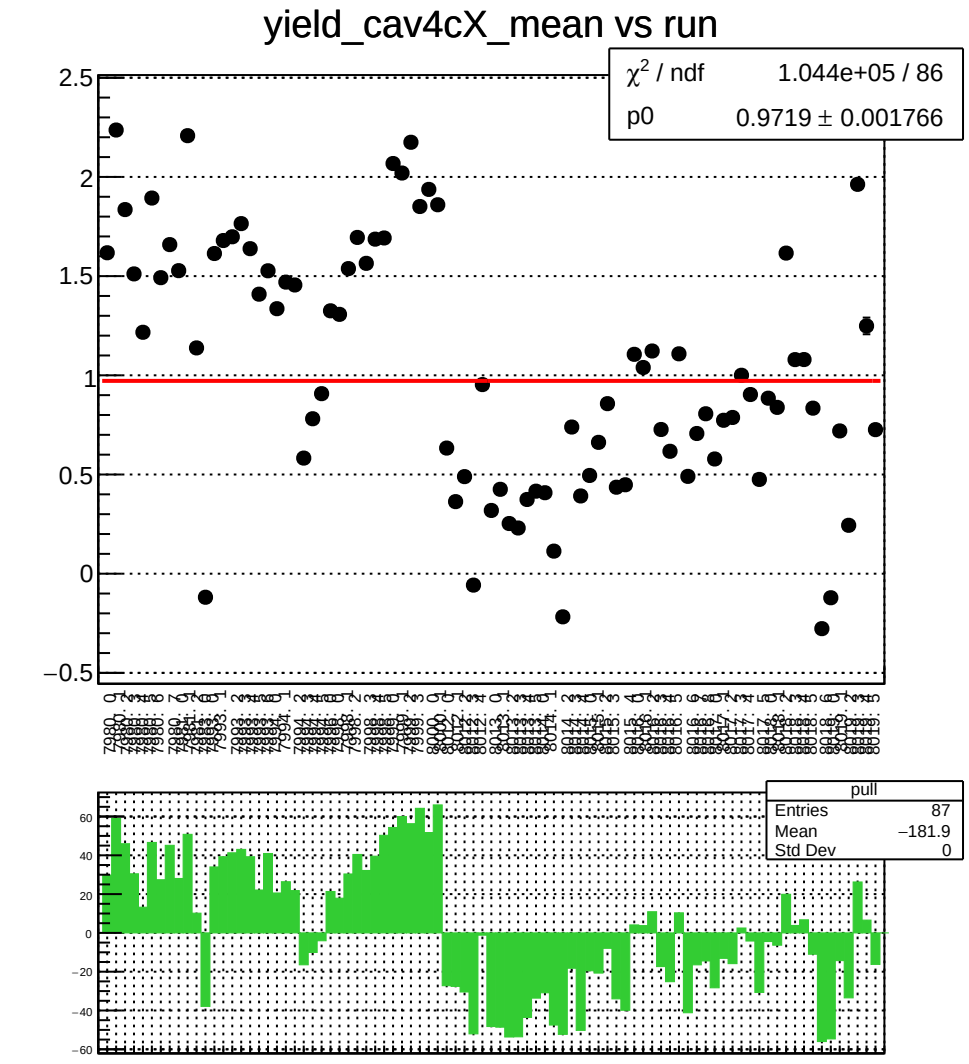

yield_cav4bX_mean vs run
χ² / ndf 1.021e+05 / 86
p0 −27.88 ± 0.004583
pull
Entries 87
Mean −242.8
Std Dev 0
pull1D
Entries 87
Mean −0.1635
Std Dev 4.235

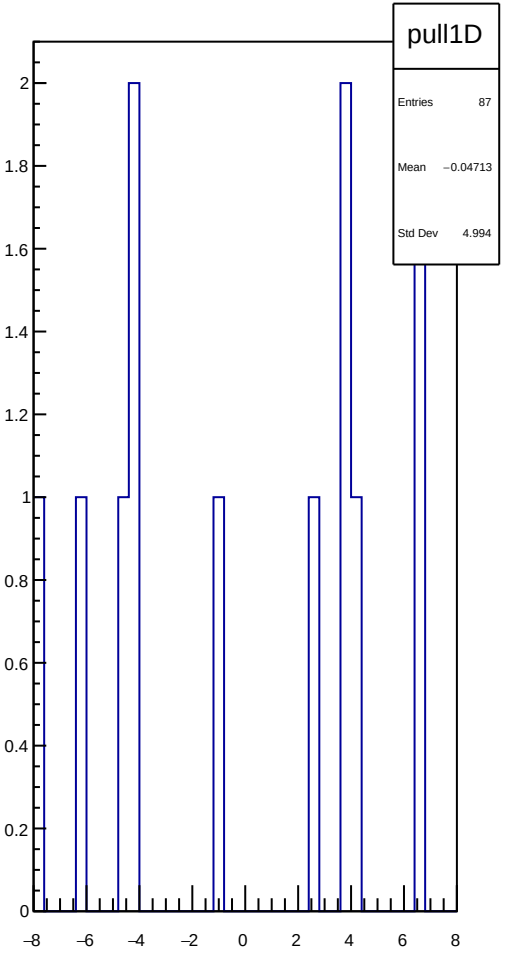

yield_cav4bX_rms vs run
χ² / ndf 1.024e+05 / 86
p0 4.173 ± 0.003241
10
9
8
7
6
5
4
3
2

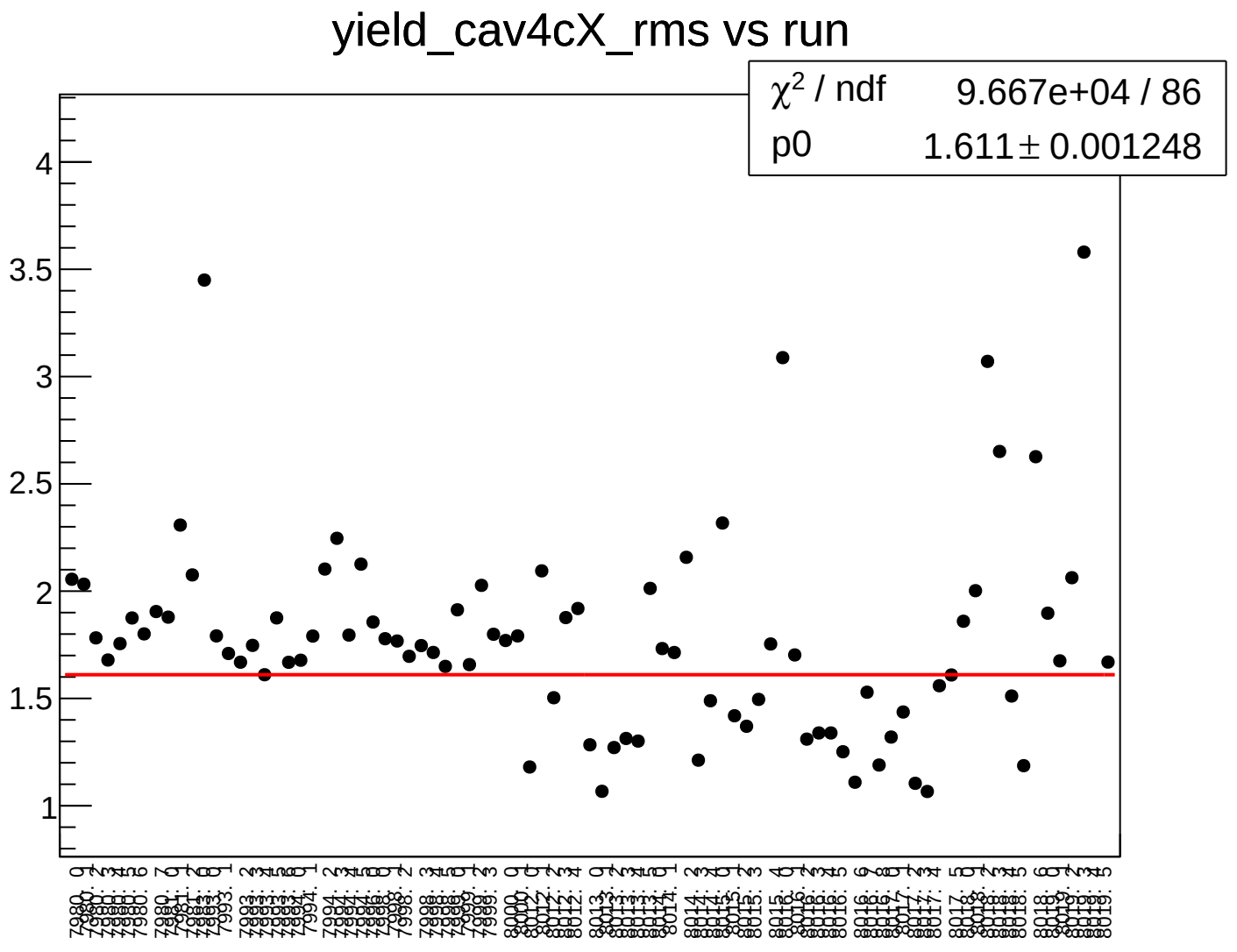

yield_cav4bY_mean vs run
χ² / ndf 3.556e+06 / 86
p0 −65.73 ± 0.001023
−64
−66
−68
−70
−72
pull
Entries 87
Mean −113.1
Std Dev 0
200
0
−200
−400
−600
−800

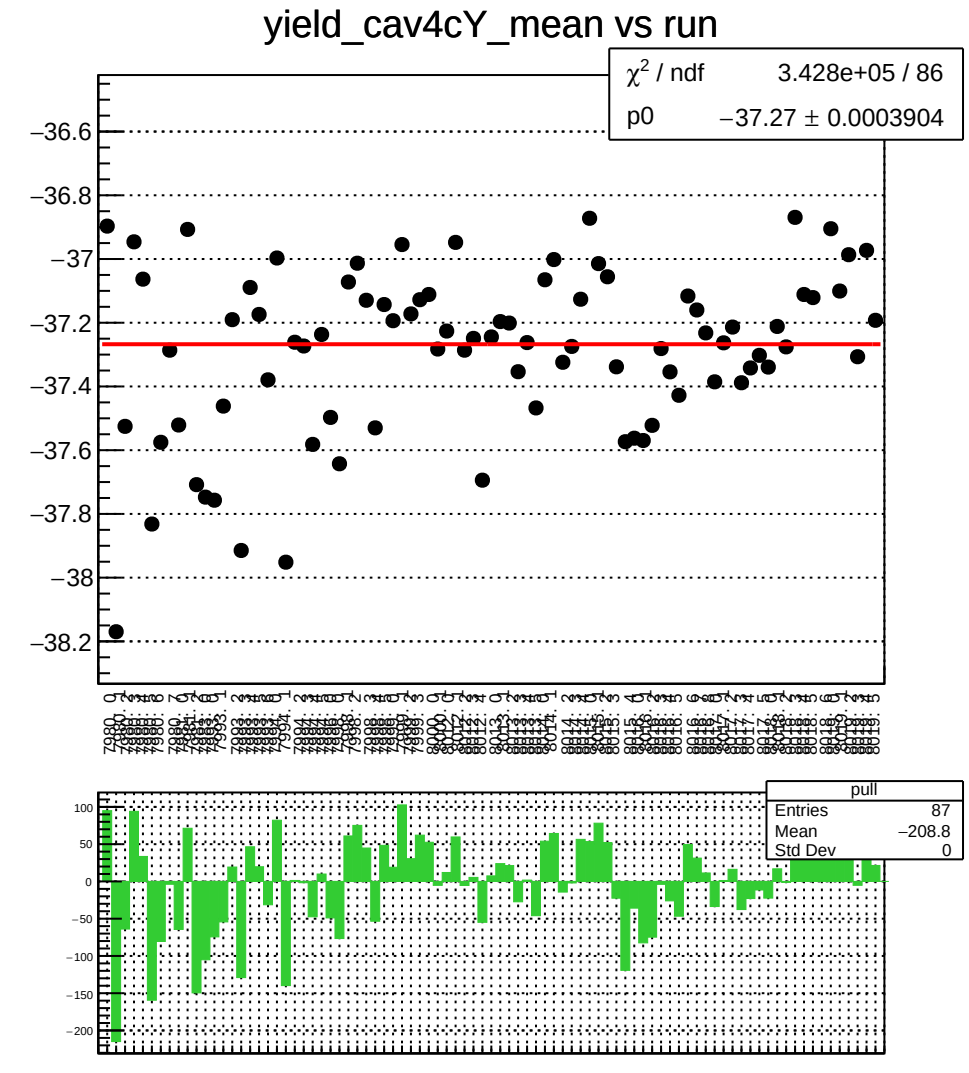

pull1D
Entries 87
Mean 5.398
Std Dev 1.594
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

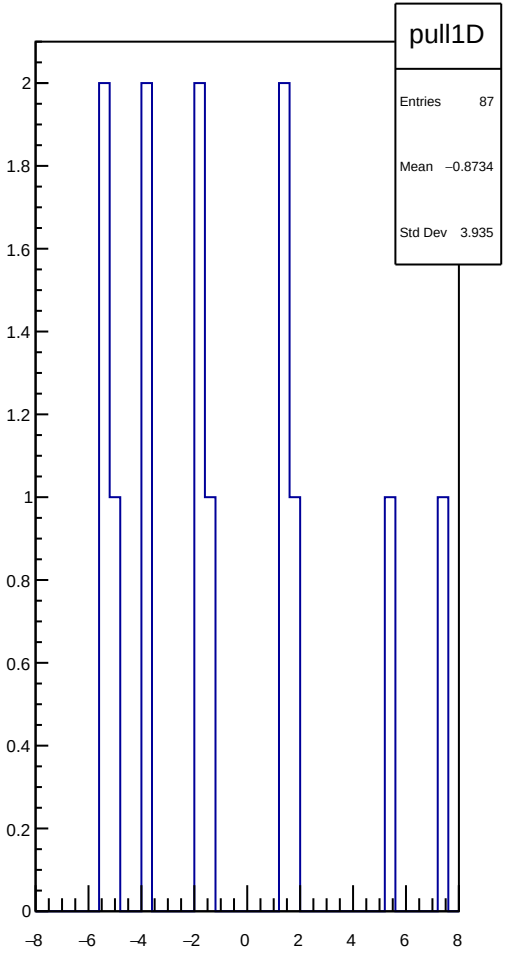

yield_cav4bY_rms vs run
χ² / ndf 2.998e+05 / 86
p0 0.8746 ± 0.0007236
3.5
3
2.5
2
1.5
1
0.5

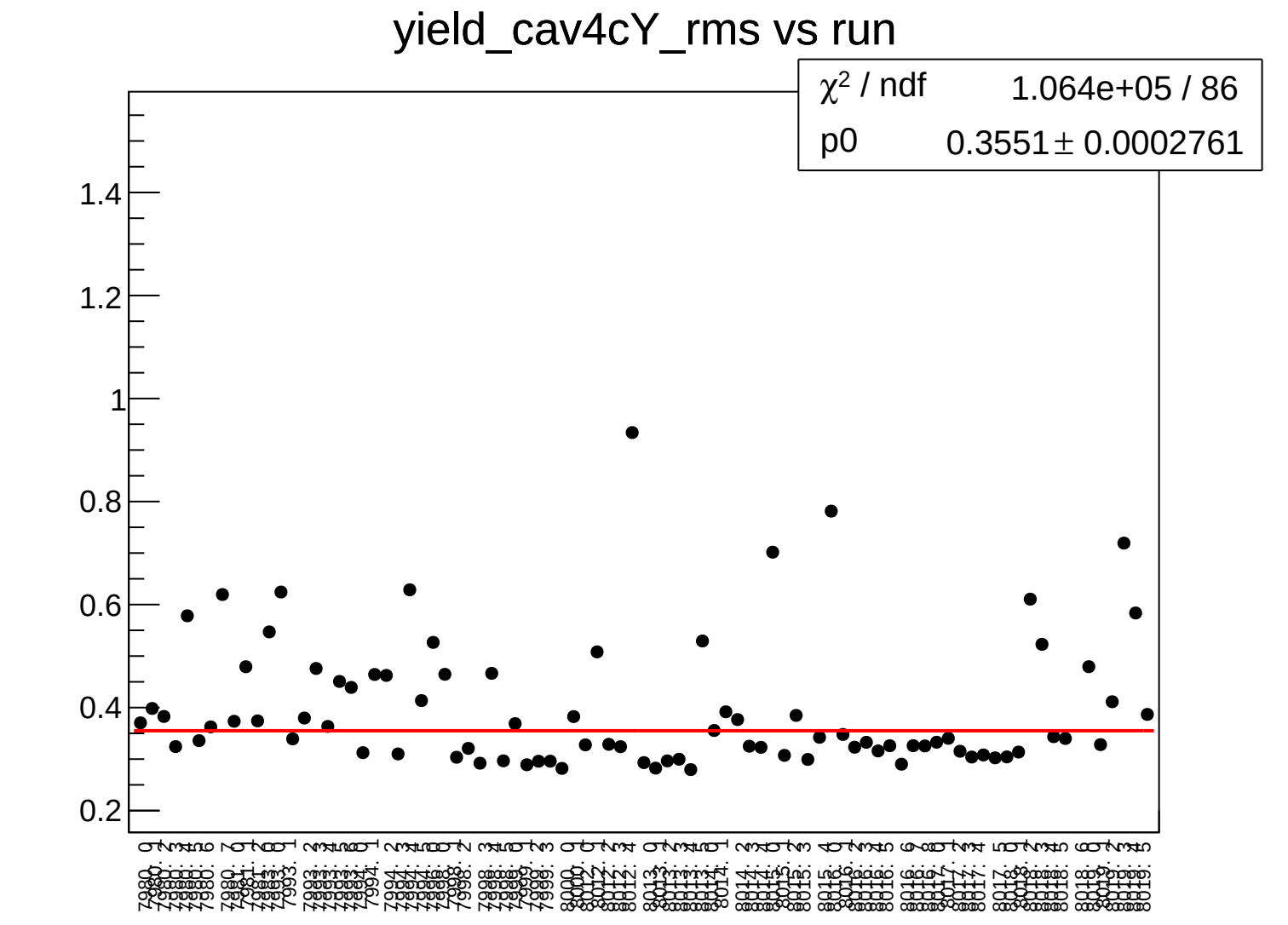

yield_cav4cX_mean vs run
χ² / ndf 1.044e+05 / 86
p0 0.9719 ± 0.001766
pull
Entries 87
Mean −181.9
Std Dev 0

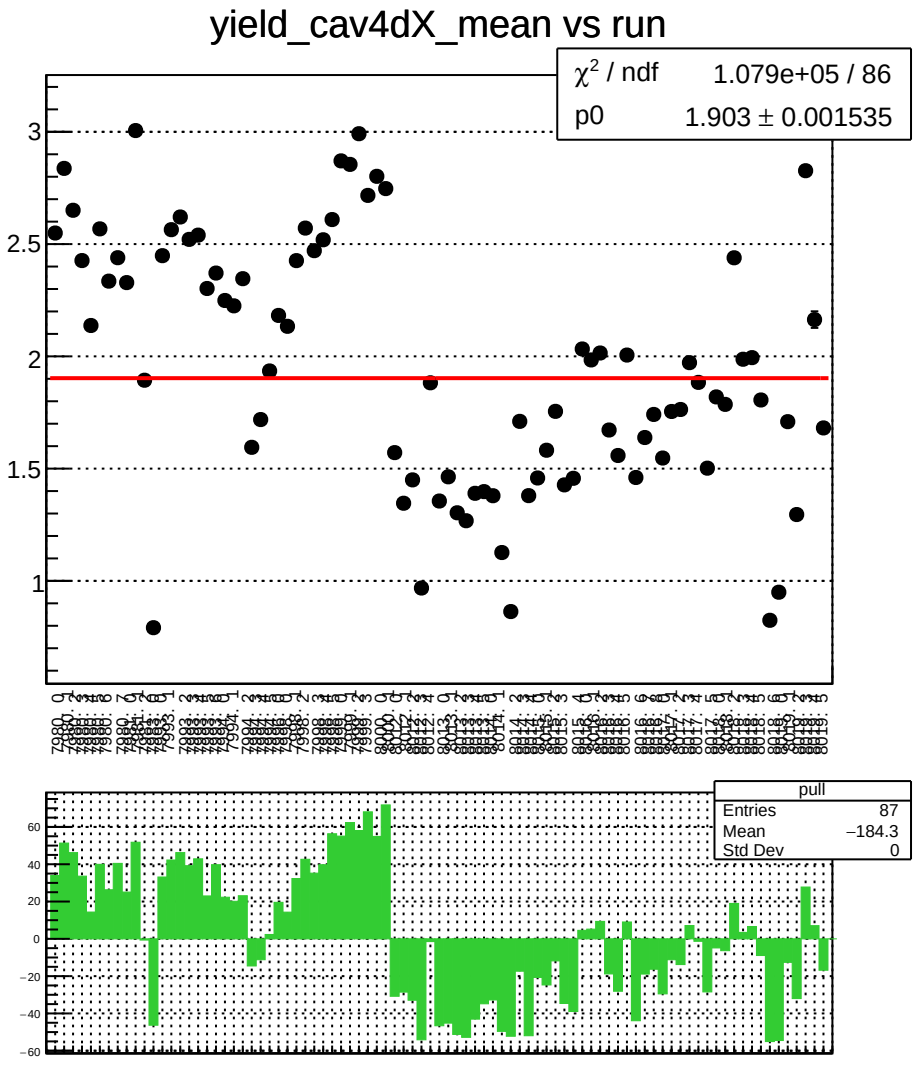

pull1D
Entries 87
Mean −0.04713
Std Dev 4.994

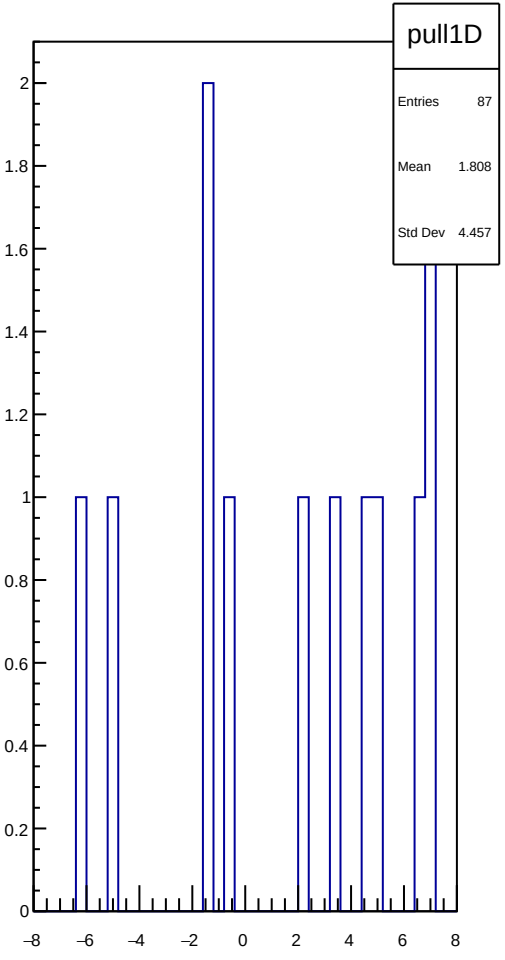

yield_cav4cX_rms vs run
χ^2 / ndf 9.667e+04 / 86
p0 1.611 ± 0.001248
4
3.5
3
2.5
2
1.5
1

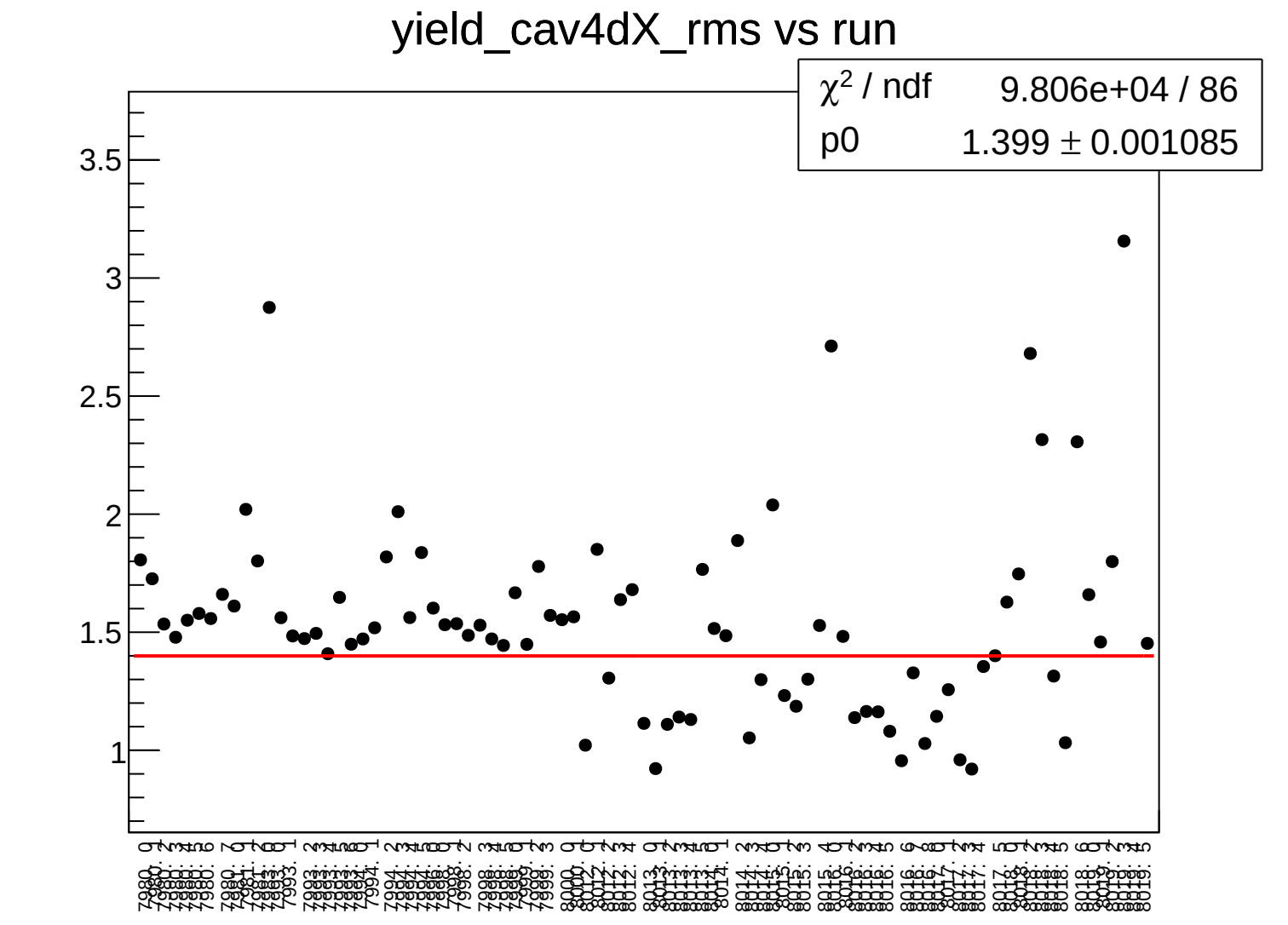

yield_cav4cY_mean vs run
χ² / ndf 3.428e+05 / 86
p0 −37.27 ± 0.0003904
−36.6
−36.8
−37
−37.2
−37.4
−37.6
−37.8
−38
−38.2
pull
Entries 87
Mean −208.8
Std Dev 0
100
50
0
−50
−100
−150
−200

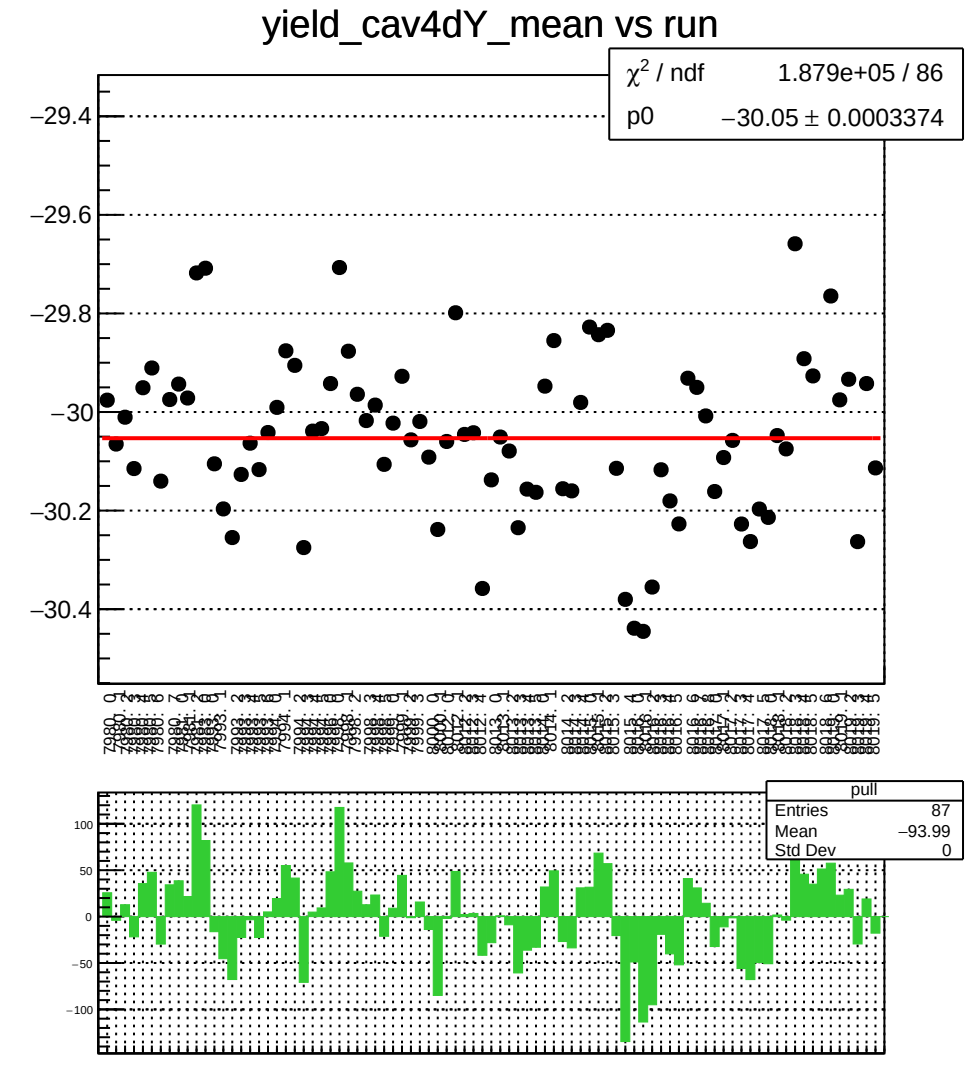

pull1D
Entries 87
Mean −0.8734
Std Dev 3.935
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

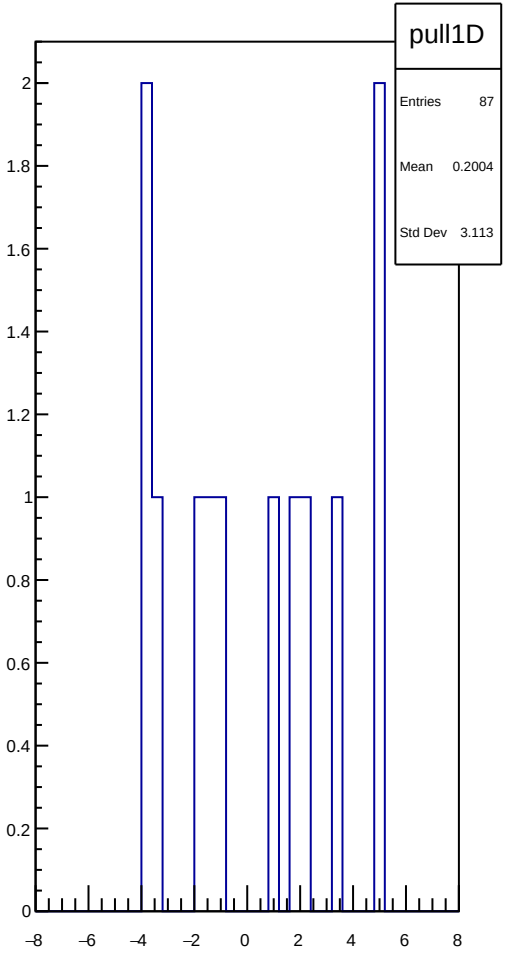

yield_cav4cY_rms vs run
χ² / ndf 1.064e+05 / 86
p0 0.3551 ± 0.0002761
1.4
1.2
1
0.8
0.6
0.4
0.2

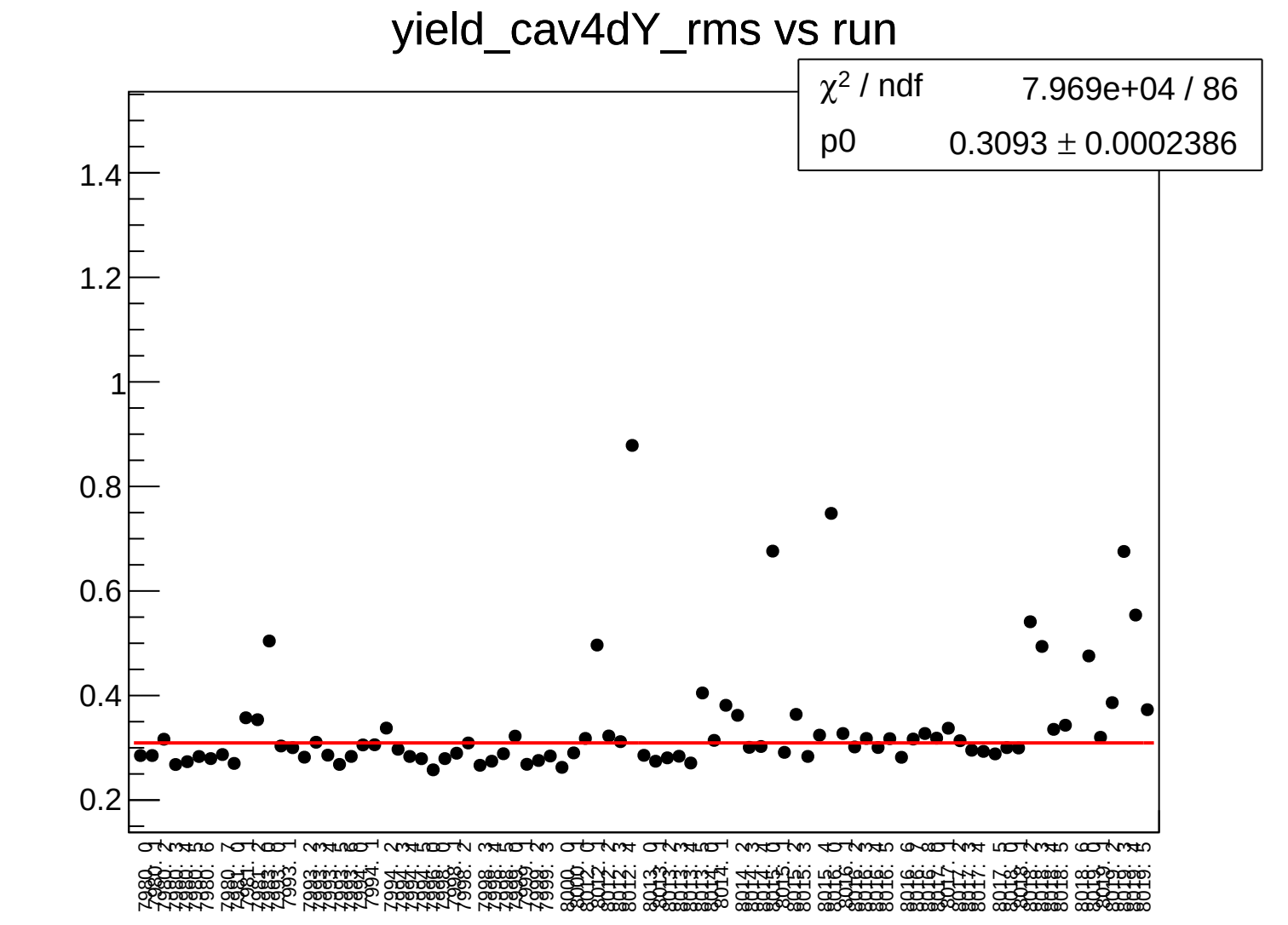

yield_cav4dX_mean vs run
χ² / ndf 1.079e+05 / 86
p0 1.903 ± 0.001535
pull
Entries 87
Mean −184.3
Std Dev 0

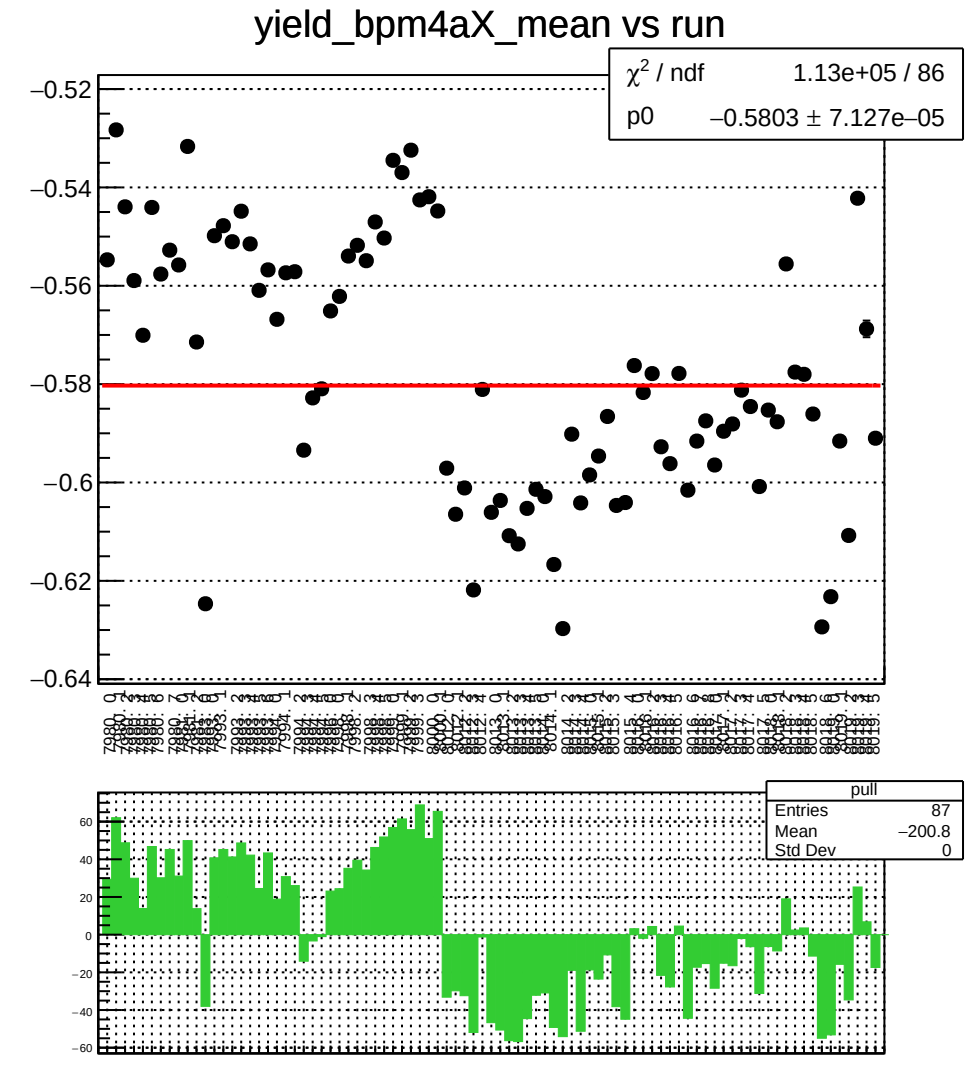

pull1D
Entries 87
Mean 1.808
Std Dev 4.457

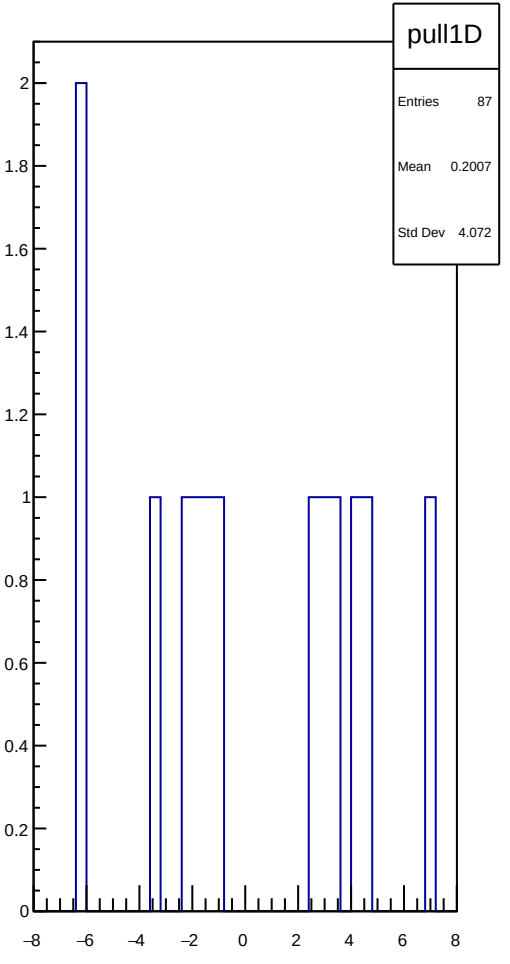

yield_cav4dX_rms vs run
χ^2 / ndf 9.806e+04 / 86
p0 1.399 ± 0.001085
3.5
3
2.5
2
1.5
1

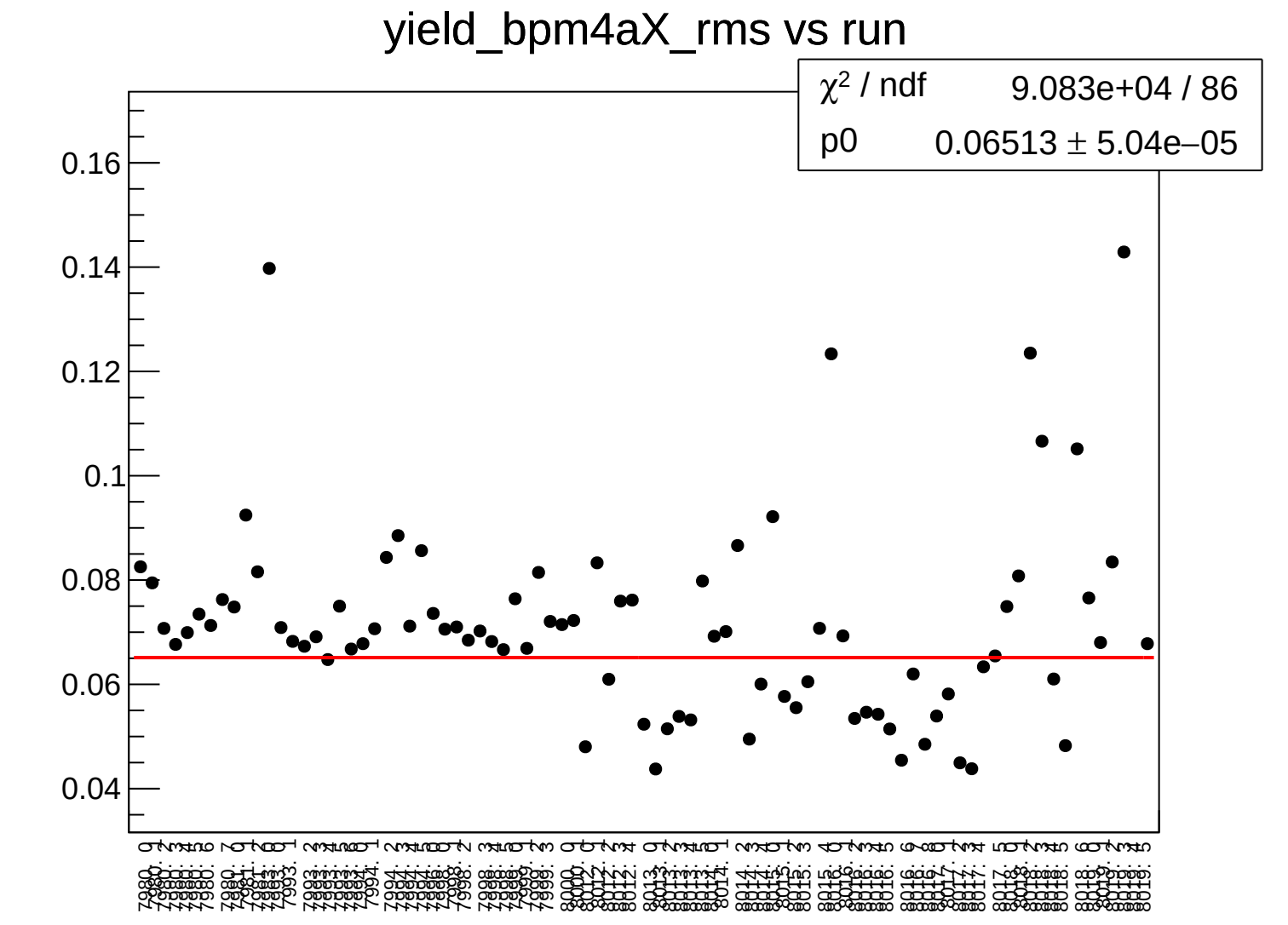

yield_cav4dY_mean vs run
χ² / ndf 1.879e+05 / 86
p0 −30.05 ± 0.0003374
−29.4
−29.6
−29.8
−30
−30.2
−30.4
pull
Entries 87
Mean −93.99
Std Dev 0
100
50
0
−50
−100

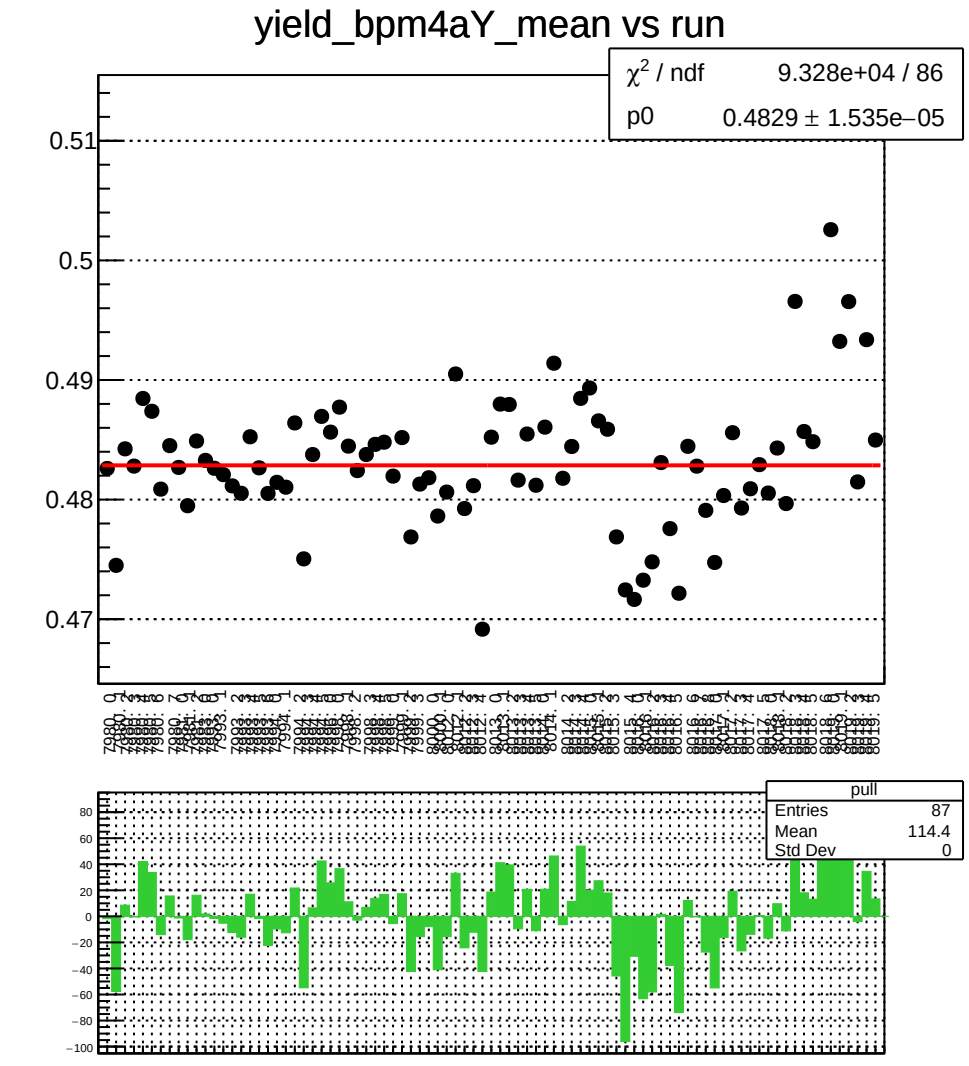

pull1D
Entries 87
Mean 0.2004
Std Dev 3.113
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

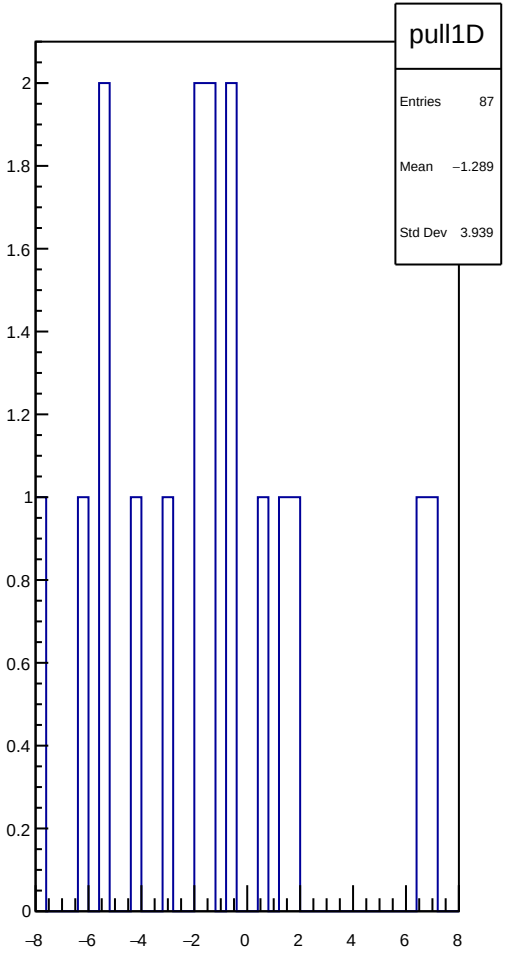

yield_cav4dY_rms vs run
χ² / ndf 7.969e+04 / 86
p0 0.3093 ± 0.0002386
1.4
1.2
1
0.8
0.6
0.4
0.2

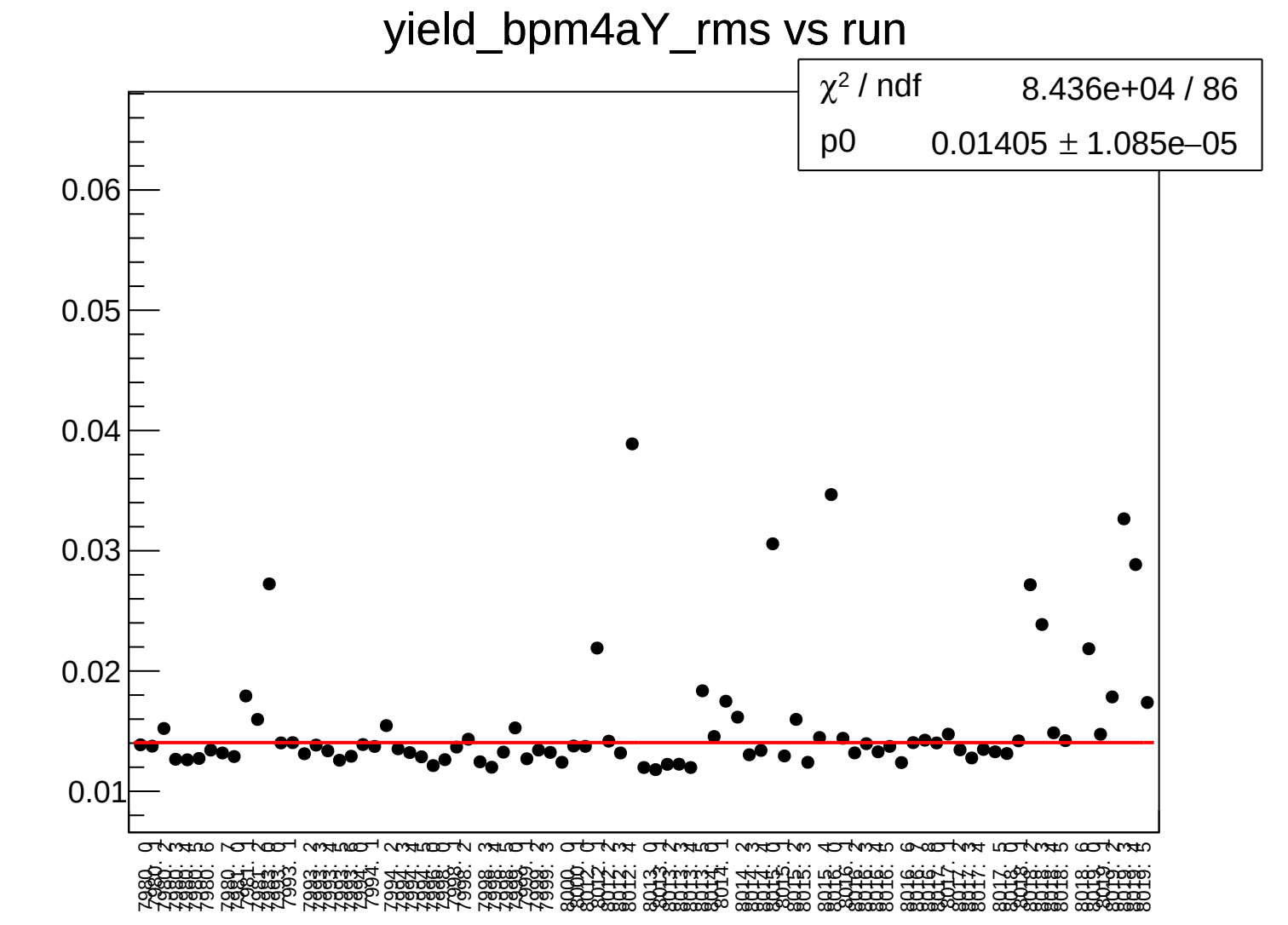

yield_bpm4aX_mean vs run
χ² / ndf 1.13e+05 / 86
p0 −0.5803 ± 7.127e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
pull
Entries 87
Mean −200.8
Std Dev 0
60
40
20
0
−20
−40
−60

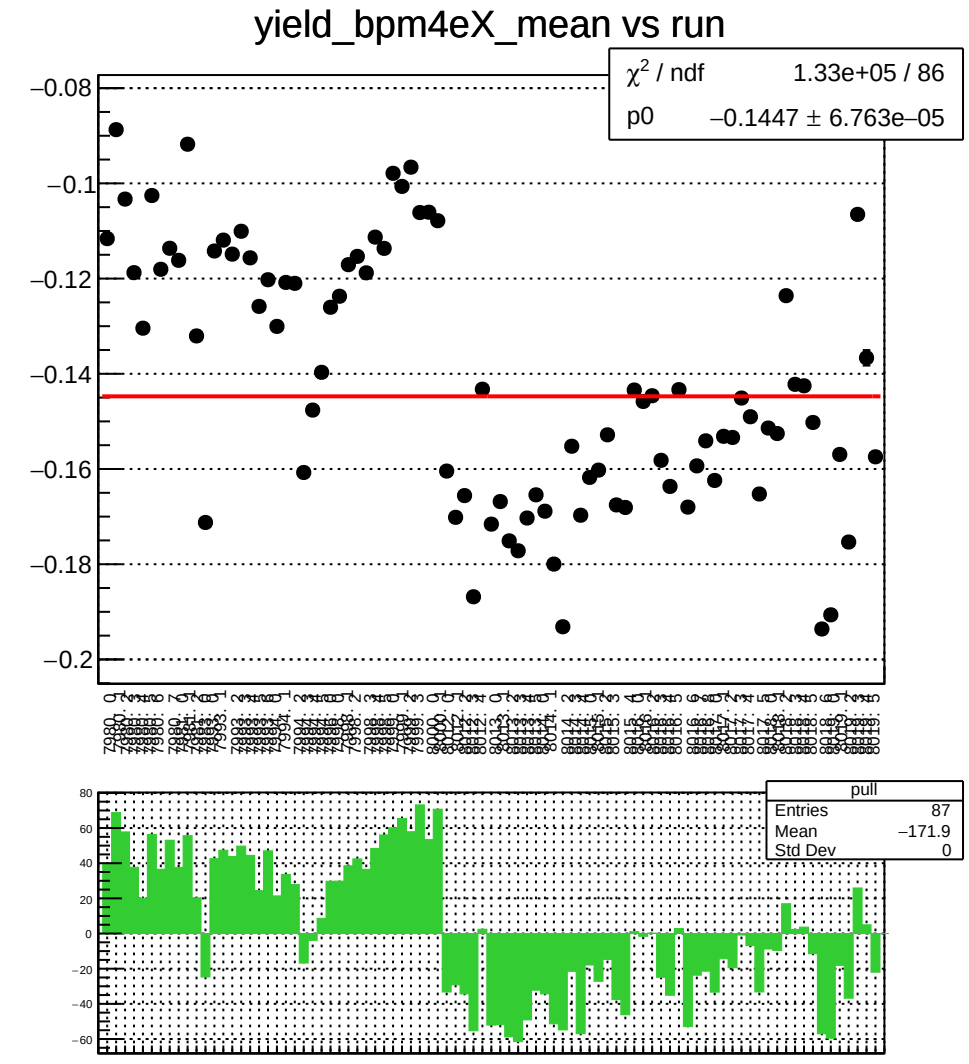

pull1D
Entries 87
Mean 0.2007
Std Dev 4.072
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

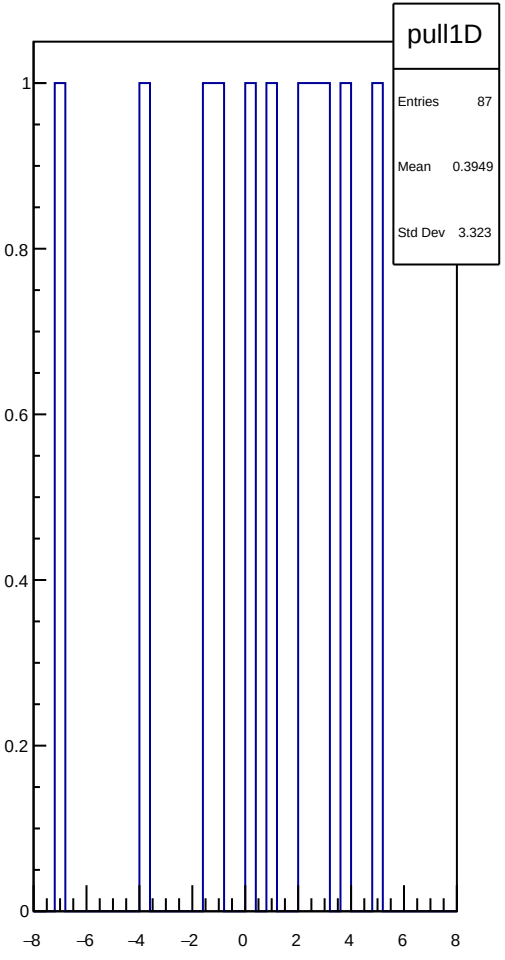

yield_bpm4aX_rms vs run
χ² / ndf 9.083e+04 / 86
p0 0.06513 ± 5.04e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

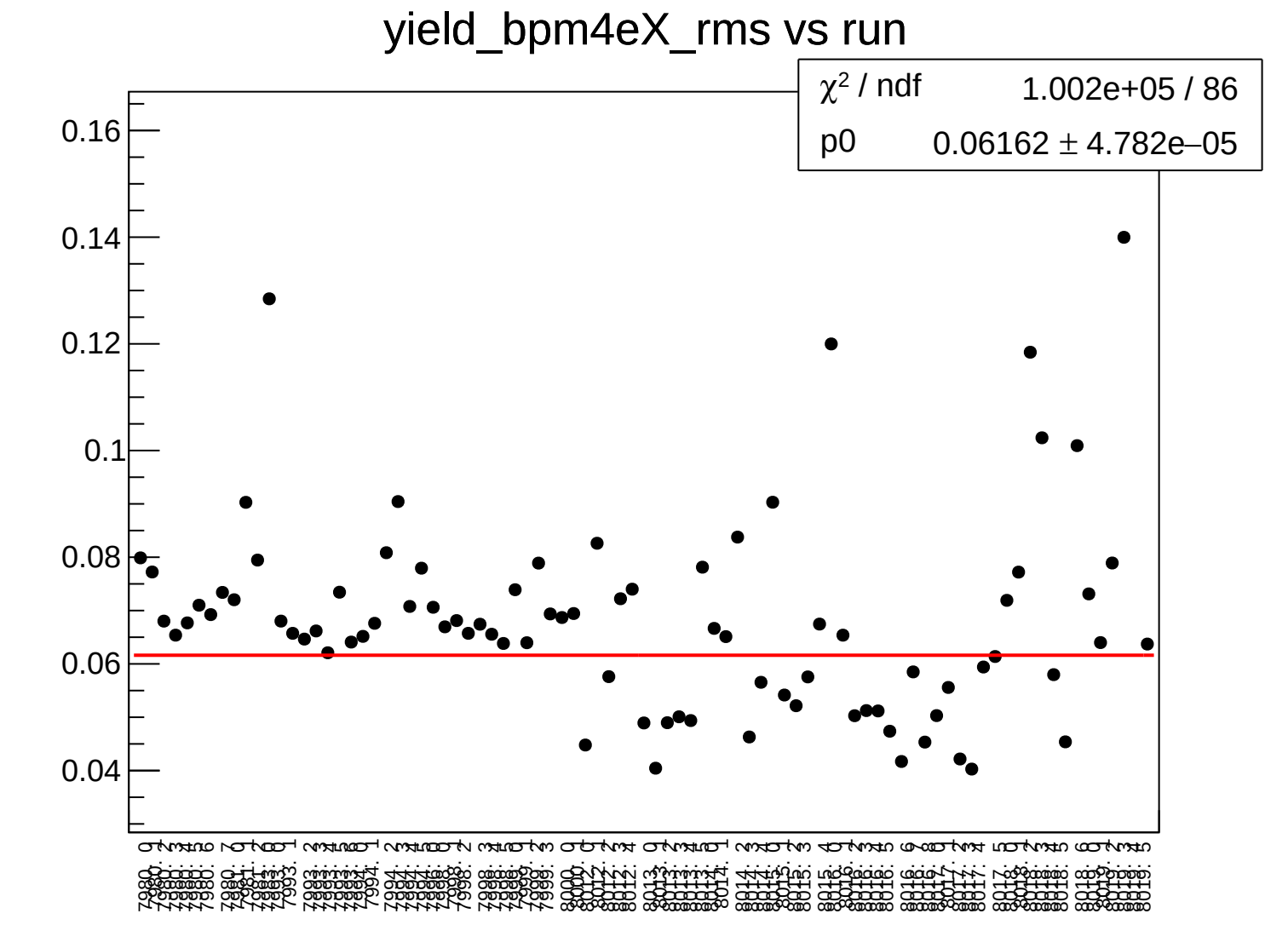

yield_bpm4aY_mean vs run
χ² / ndf 9.328e+04 / 86
p0 0.4829 ± 1.535e−05
0.51
0.5
0.49
0.48
0.47
pull
Entries 87
Mean 114.4
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

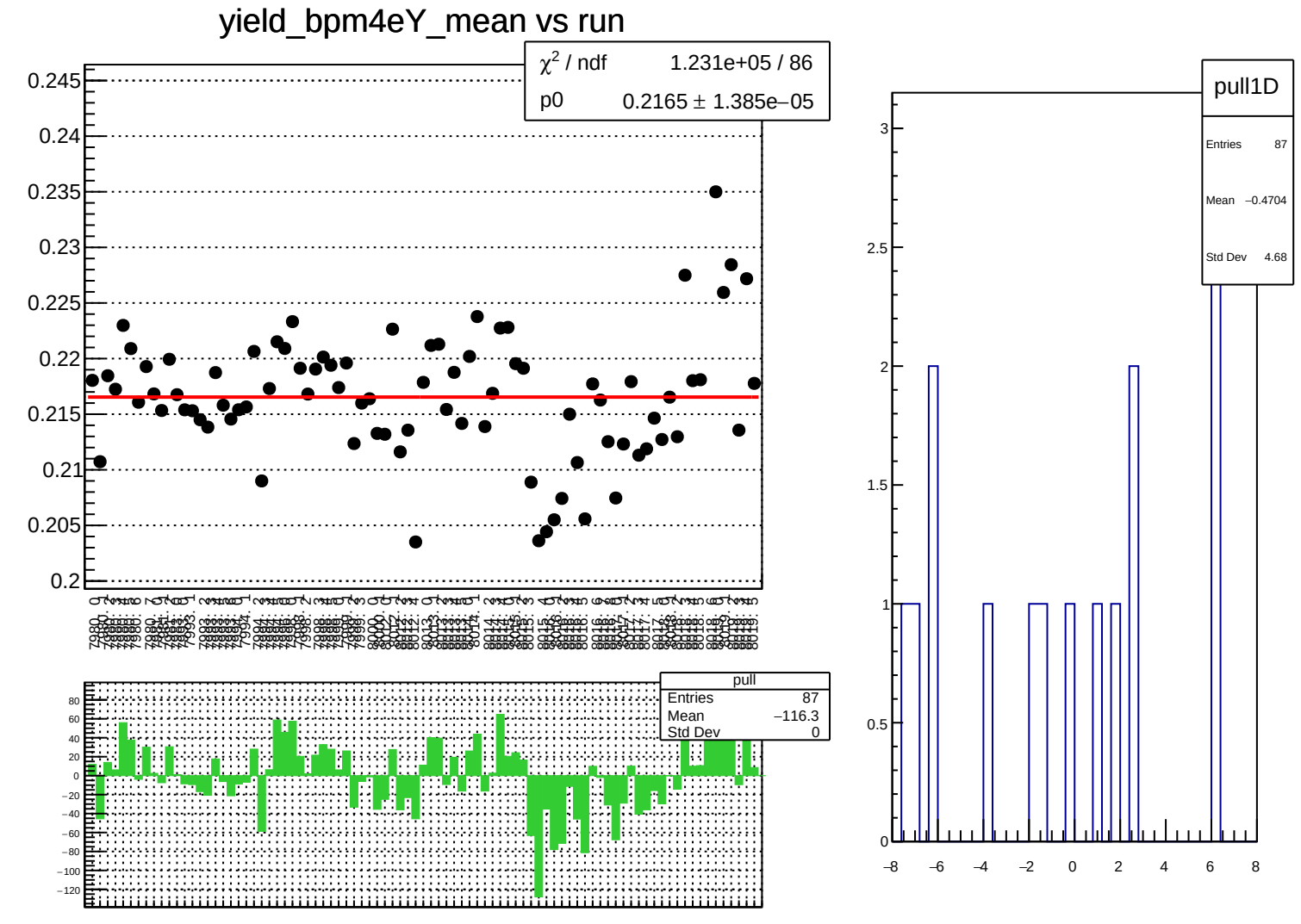

pull1D
Entries 87
Mean −1.289
Std Dev 3.939
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

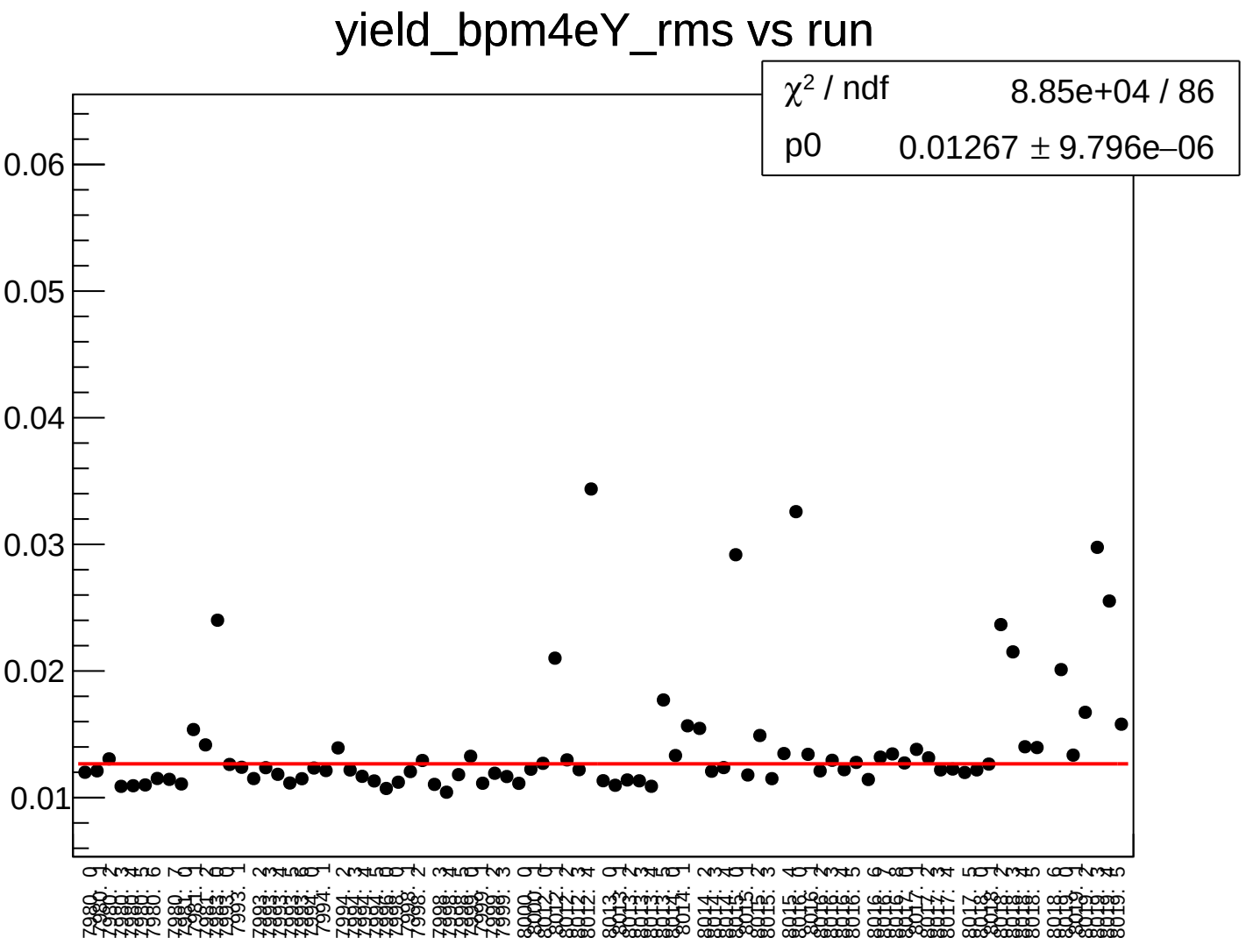

yield_bpm4aY_rms vs run
χ² / ndf 8.436e+04 / 86
p0 0.01405 ± 1.085e−05
0.06
0.05
0.04
0.03
0.02
0.01

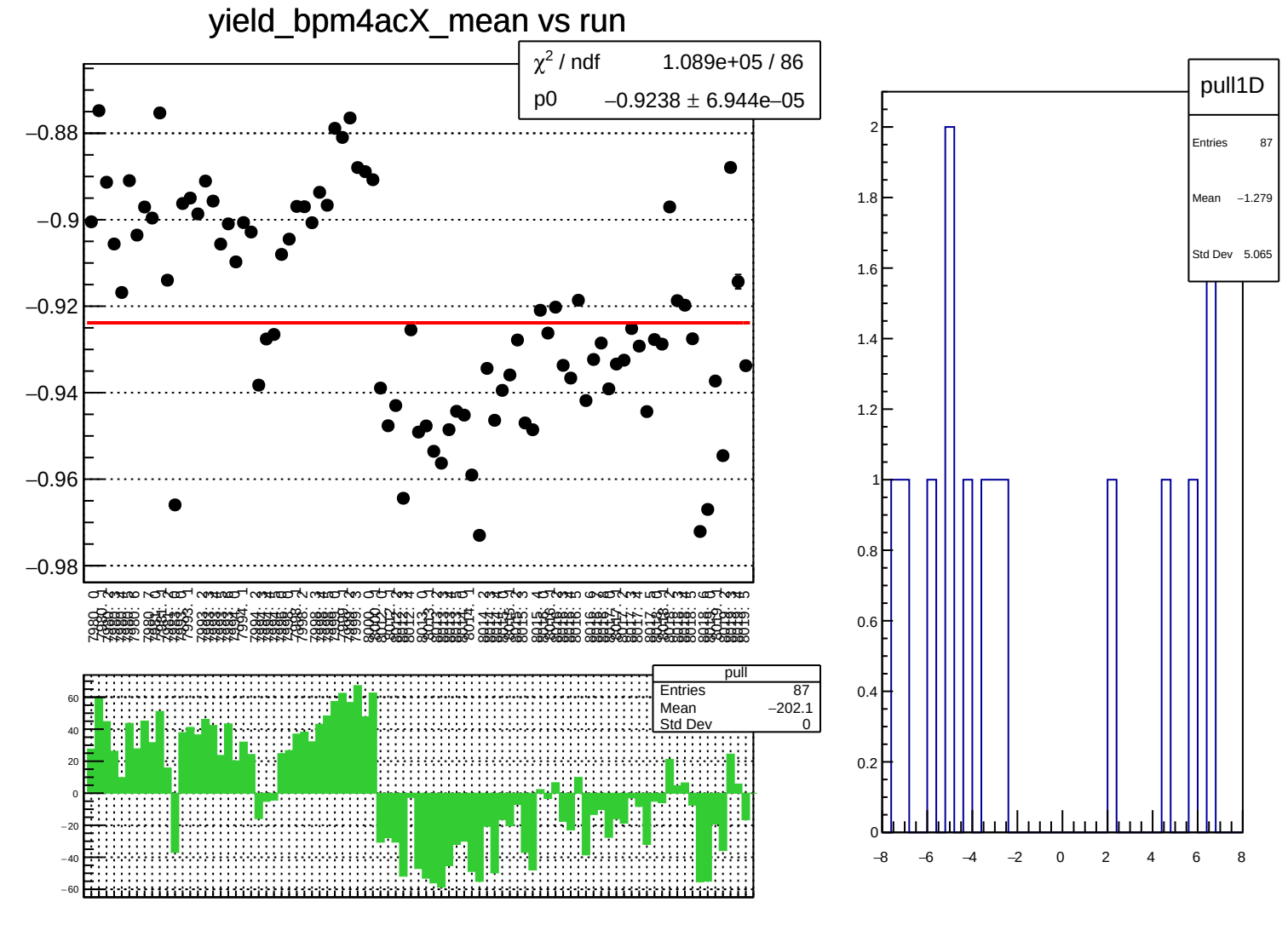

yield_bpm4eX_mean vs run
χ² / ndf 1.33e+05 / 86
p0 −0.1447 ± 6.763e−05
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
pull
Entries 87
Mean −171.9
Std Dev 0
80
60
40
20
0
−20
−40
−60

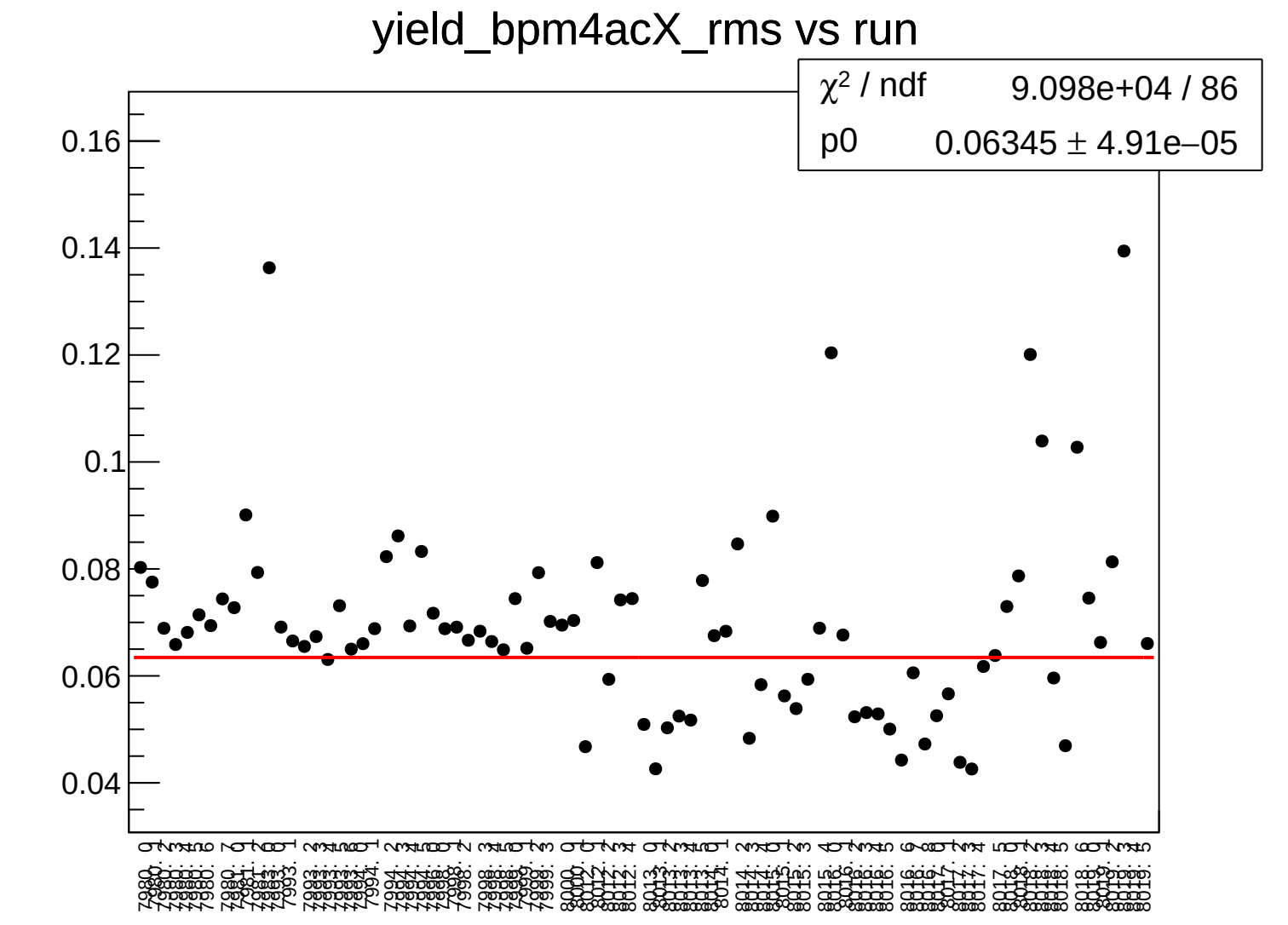

pull1D
Entries 87
Mean 0.3949
Std Dev 3.323
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

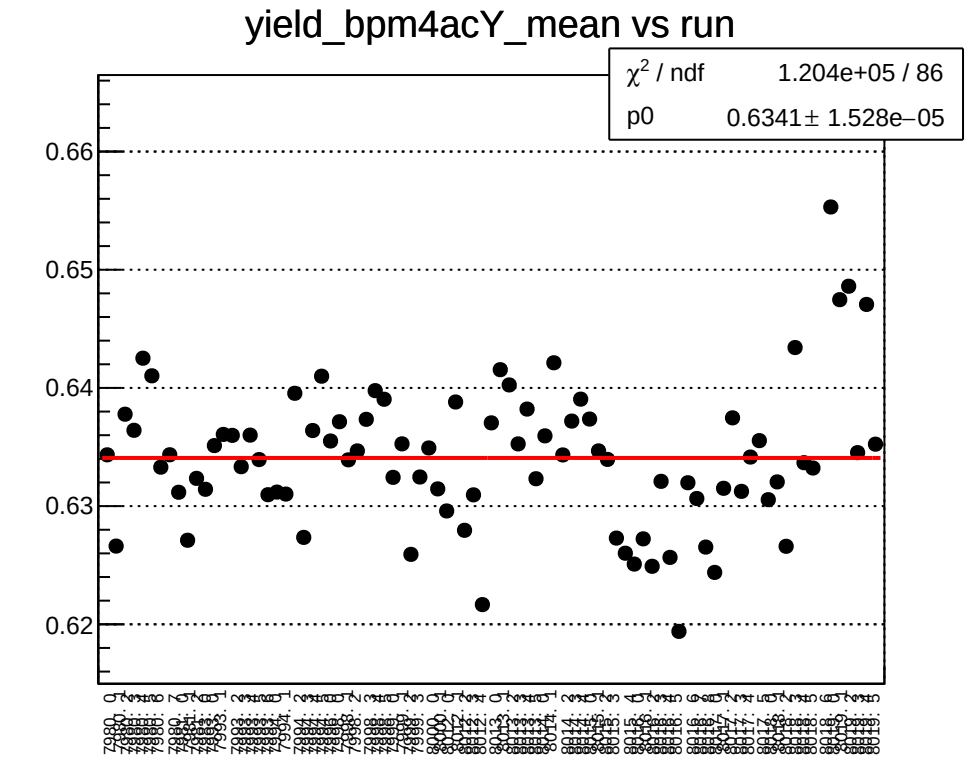

yield_bpm4eX_rms vs run
χ² / ndf 1.002e+05 / 86
p0 0.06162 ± 4.782e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

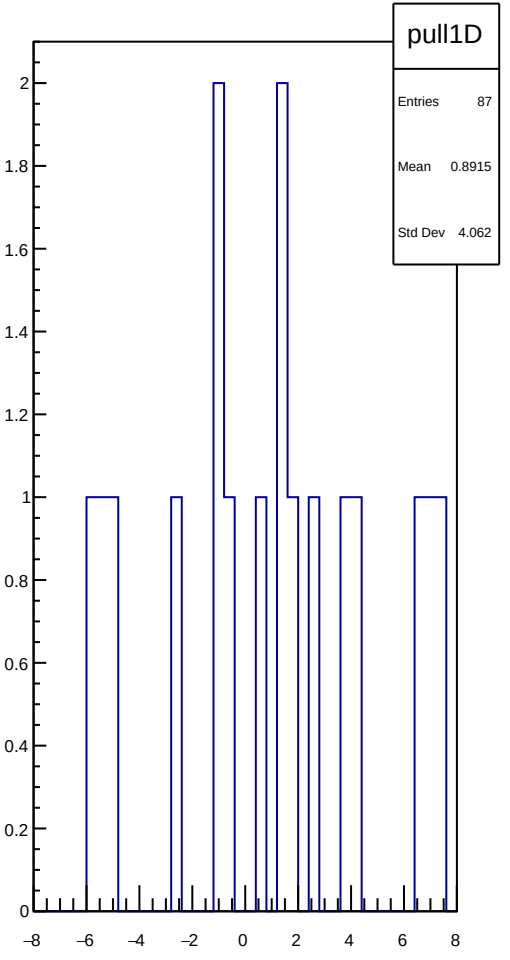

yield_bpm4eY_mean vs run
χ² / ndf 1.231e+05 / 86
p0 0.2165 ± 1.385e−05
pull
Entries 87
Mean −116.3
Std Dev 0
pull1D
Entries 87
Mean −0.4704
Std Dev 4.68

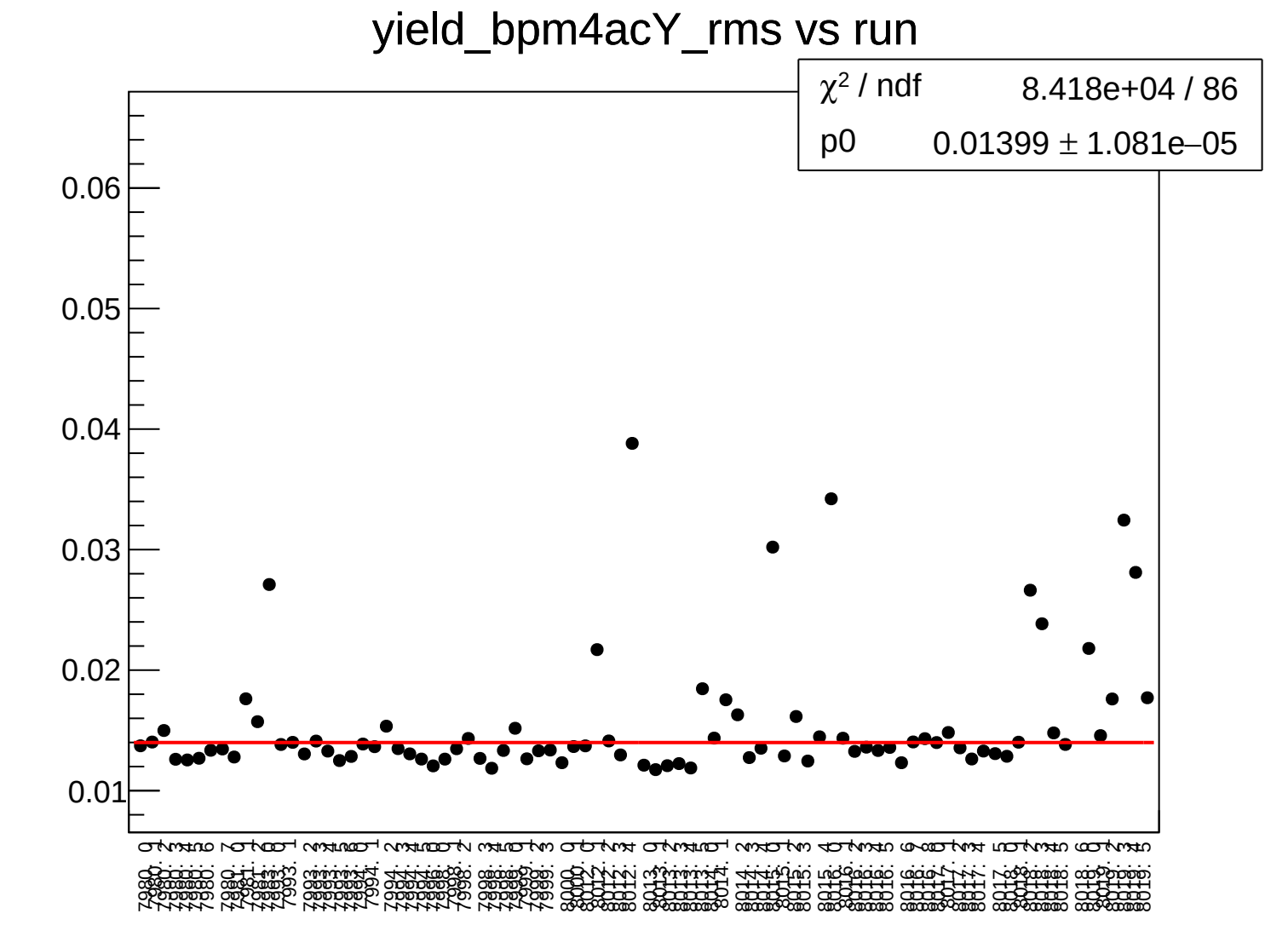

yield_bpm4eY_rms vs run
χ² / ndf 8.85e+04 / 86
p0 0.01267 ± 9.796e–06
0.06
0.05
0.04
0.03
0.02
0.01

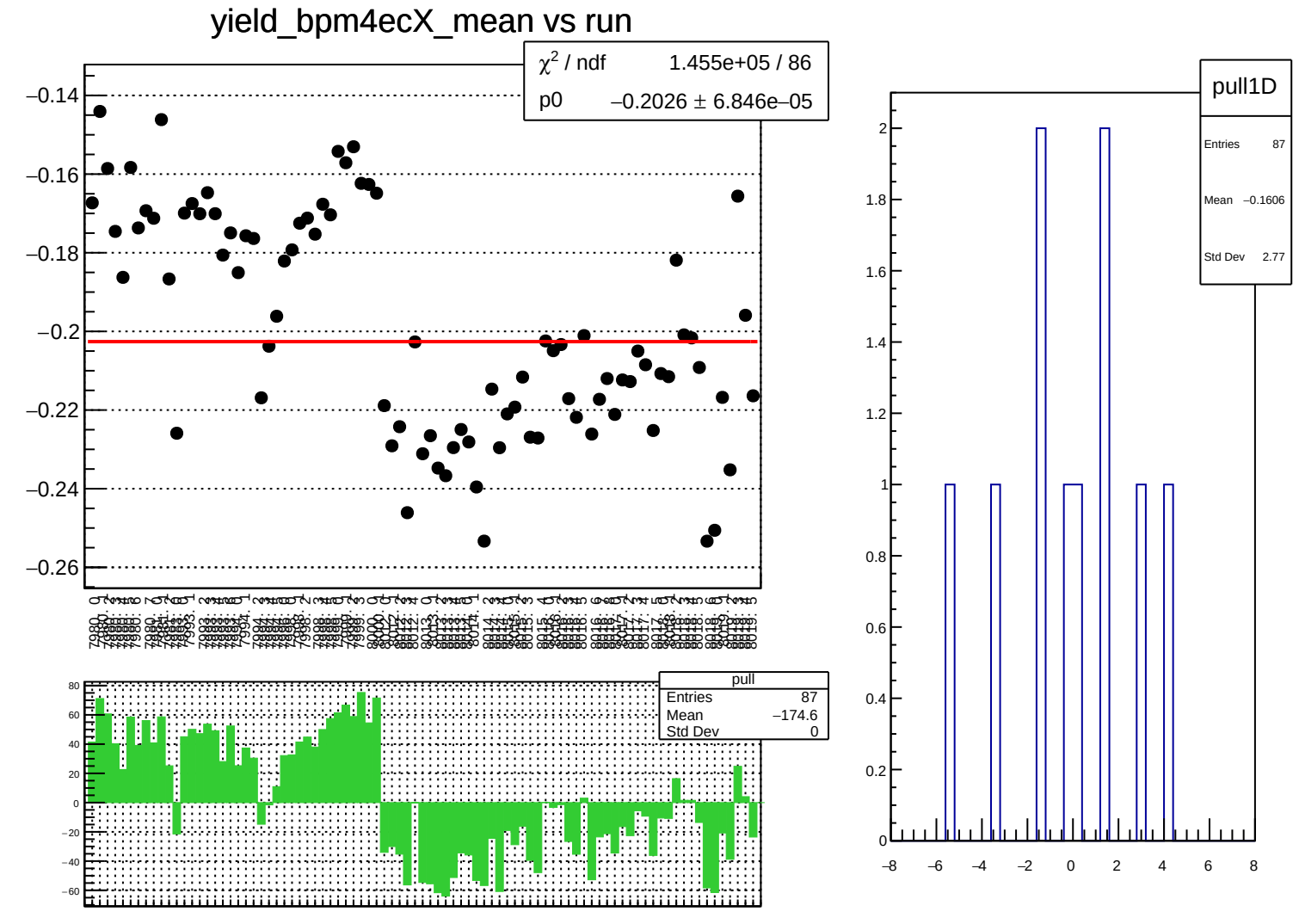

yield_bpm4acX_mean vs run
χ² / ndf 1.089e+05 / 86
p0 −0.9238 ± 6.944e−05
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
pull
Entries 87
Mean −202.1
Std Dev 0
60
40
20
0
−20
−40
−60
pull1D
Entries 87
Mean −1.279
Std Dev 5.065
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

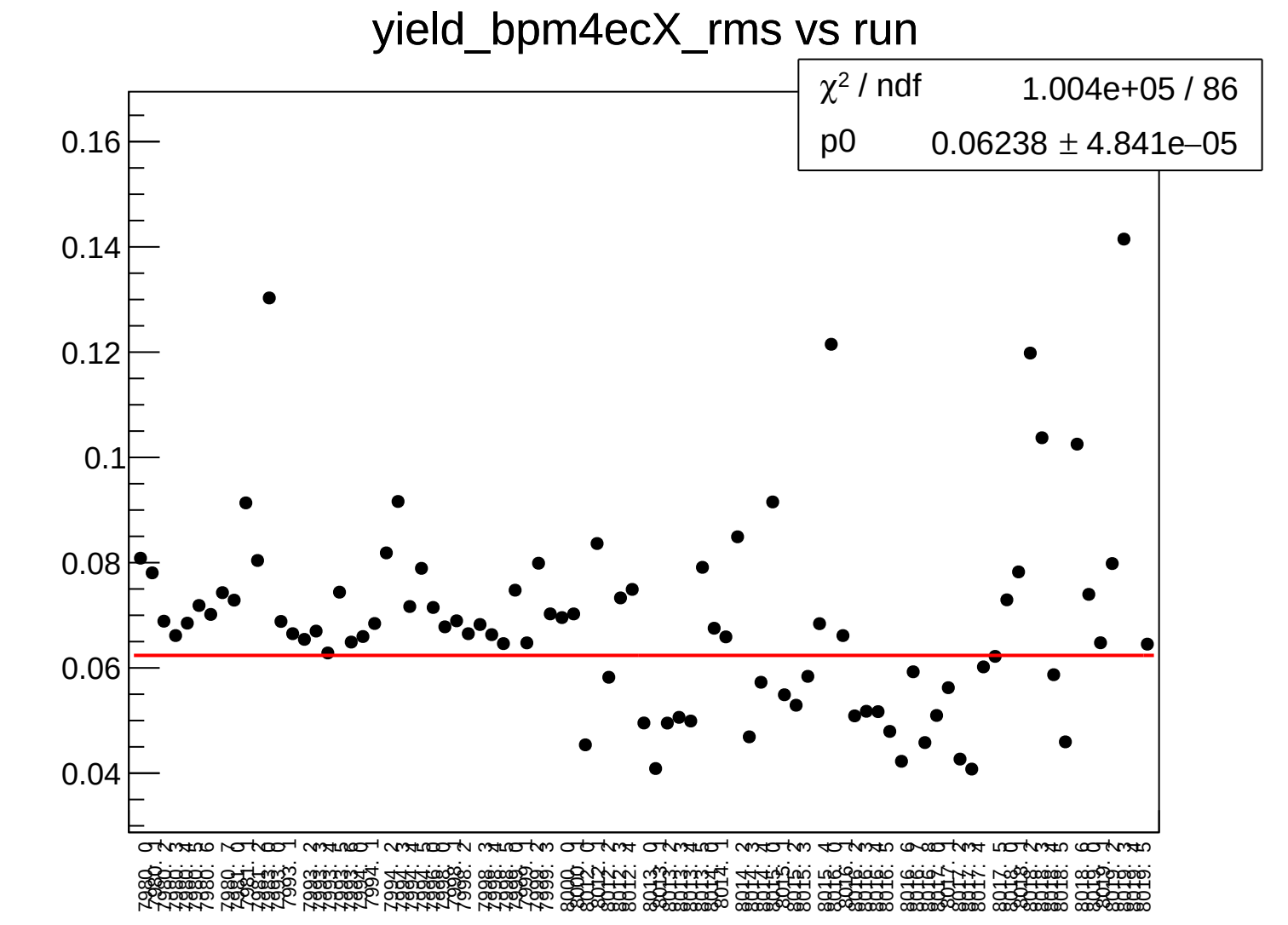

yield_bpm4acX_rms vs run
χ² / ndf 9.098e+04 / 86
p0 0.06345 ± 4.91e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

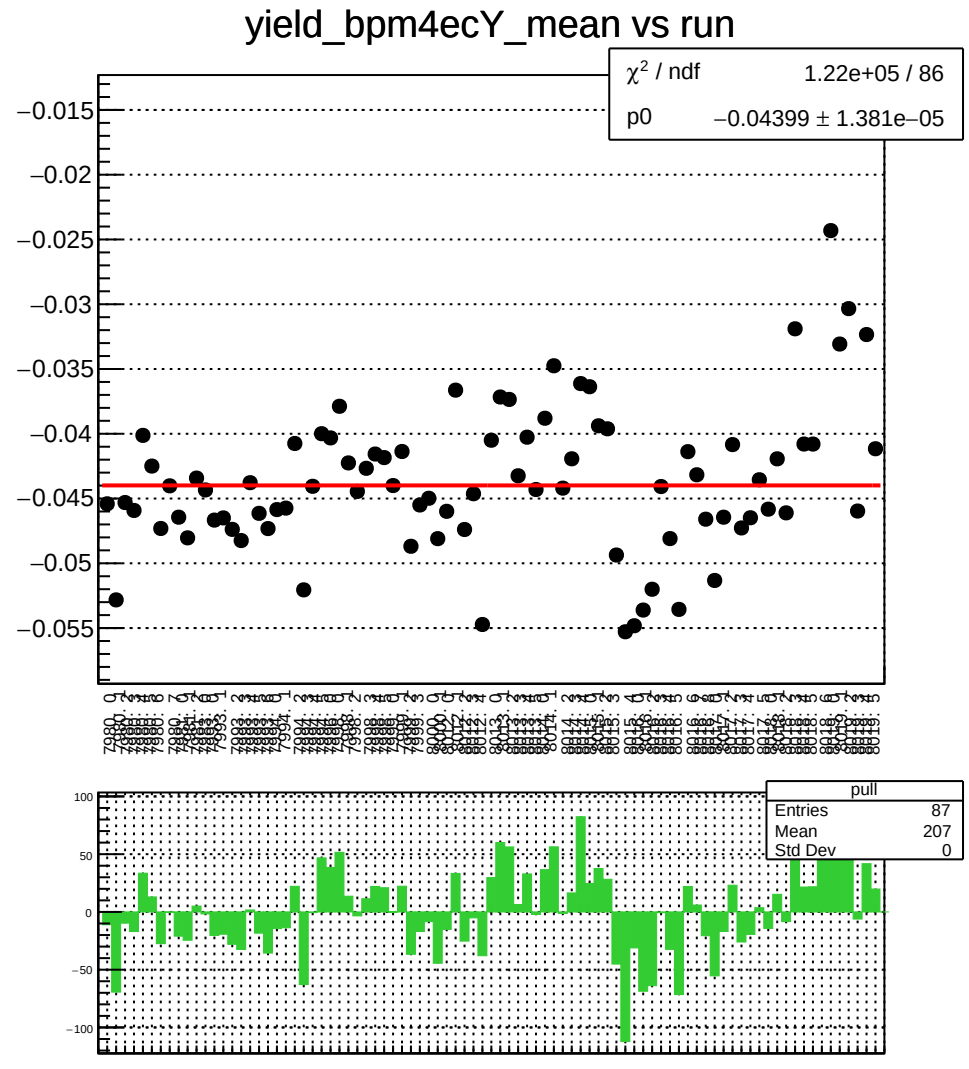

yield_bpm4acY_mean vs run
χ² / ndf 1.204e+05 / 86
p0 0.6341 ± 1.528e−05
0.66
0.65
0.64
0.63
0.62
pull
Entries 87
Mean 35.52
Std Dev 95.11
100
50
0
−50
−100

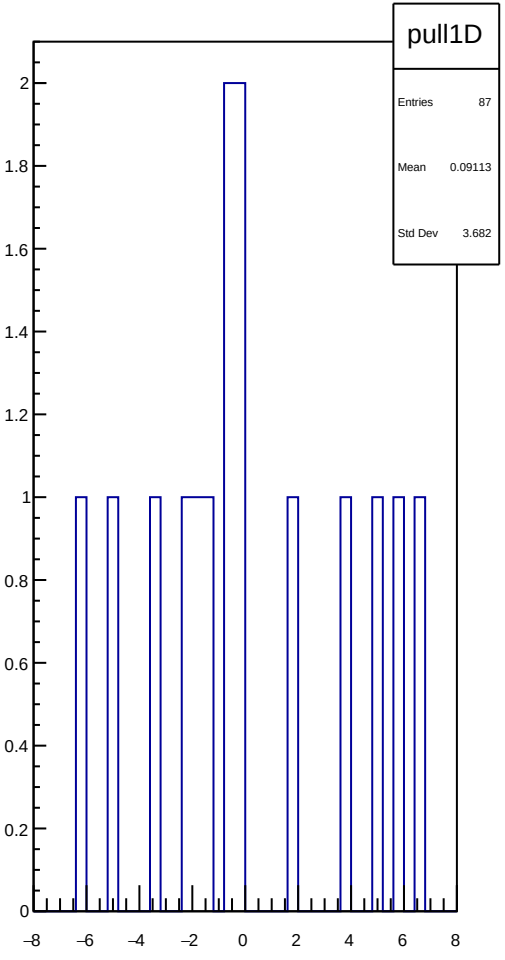

pull1D
Entries 87
Mean 0.8915
Std Dev 4.062
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

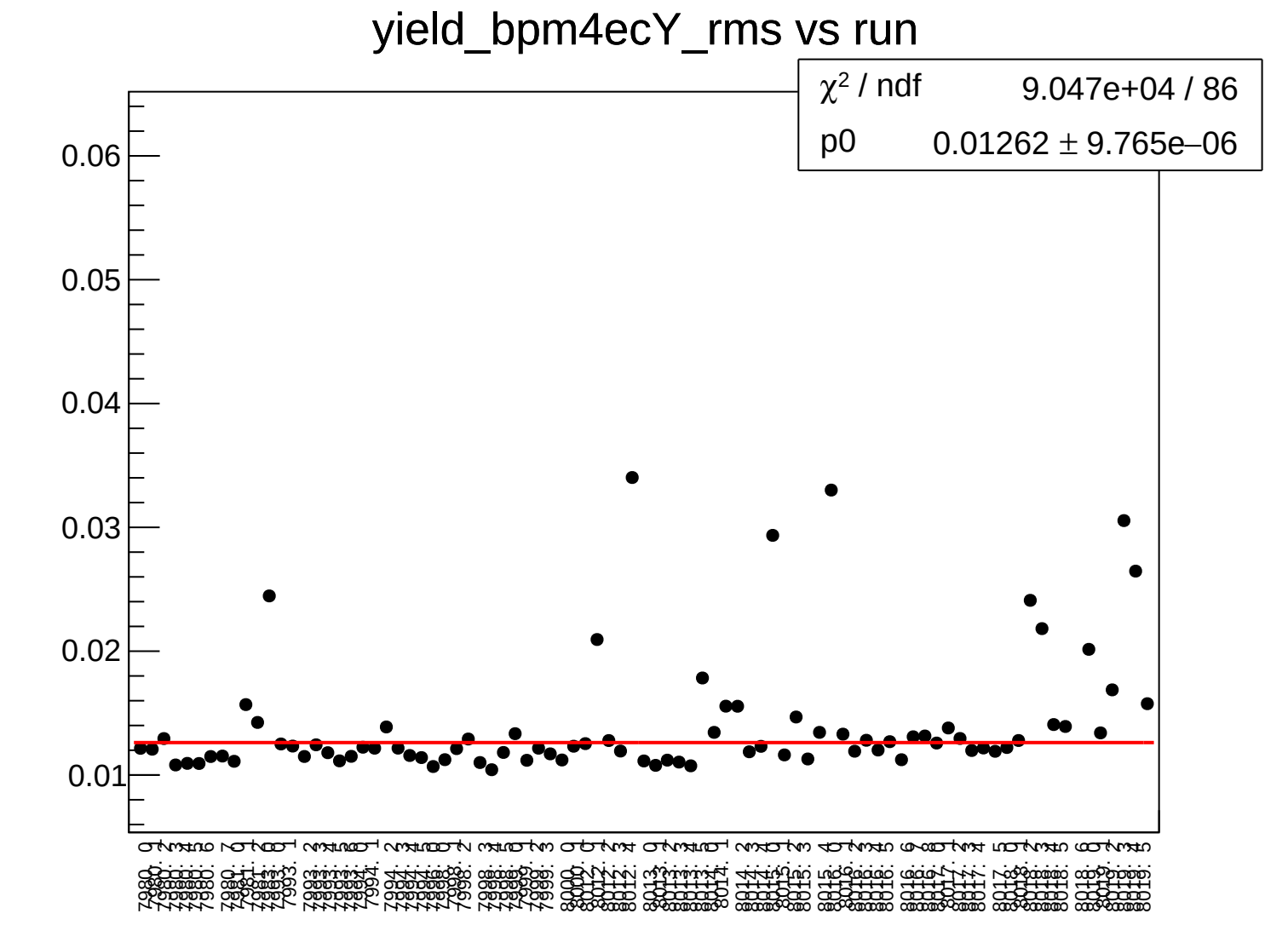

yield_bpm4acY_rms vs run
χ² / ndf 8.418e+04 / 86
p0 0.01399 ± 1.081e–05
0.06
0.05
0.04
0.03
0.02
0.01

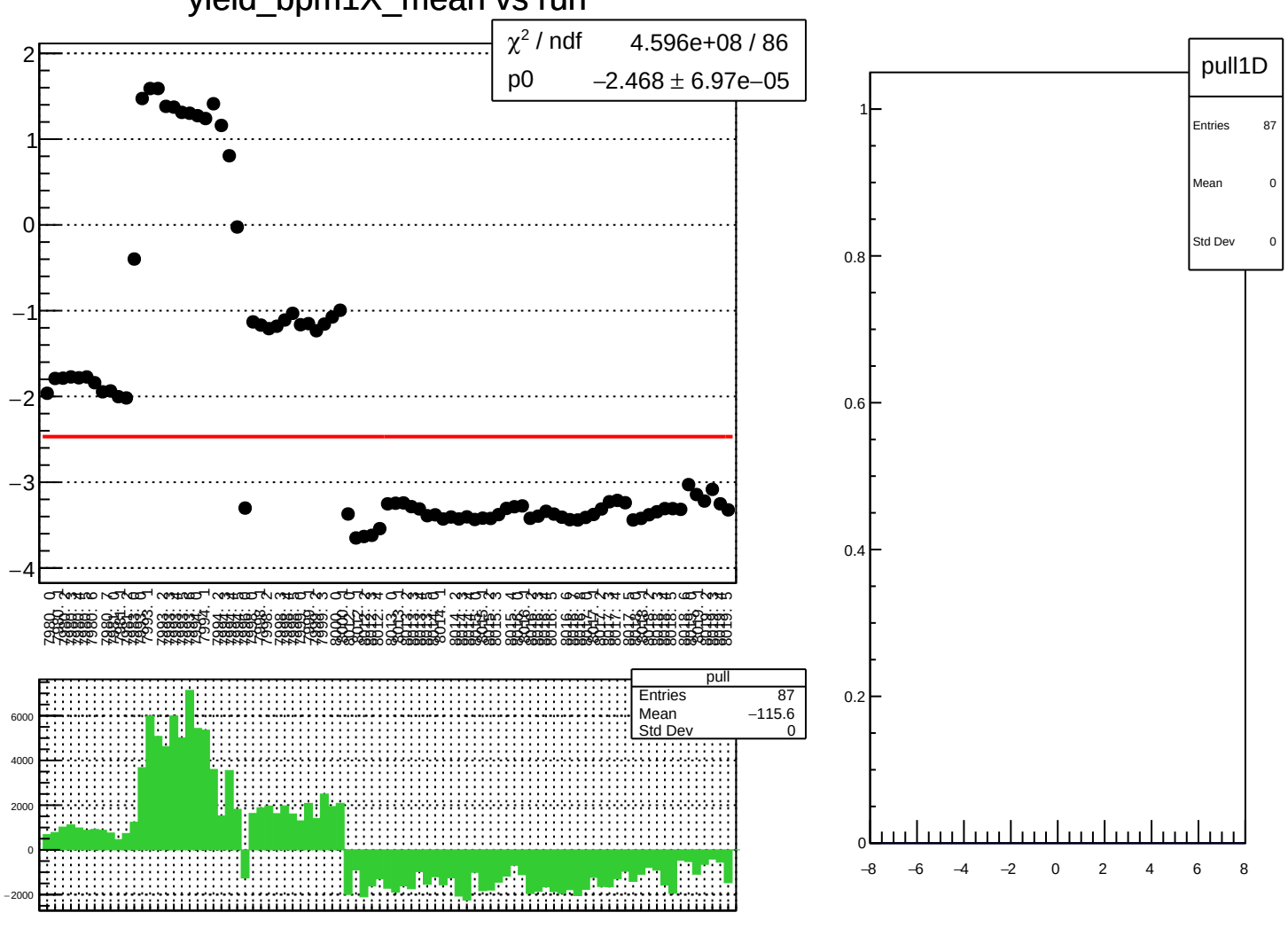

yield_bpm4ecX_mean vs run
χ² / ndf 1.455e+05 / 86
p0 −0.2026 ± 6.846e−05
−0.14
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
pull
Entries 87
Mean −174.6
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 87
Mean −0.1606
Std Dev 2.77
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

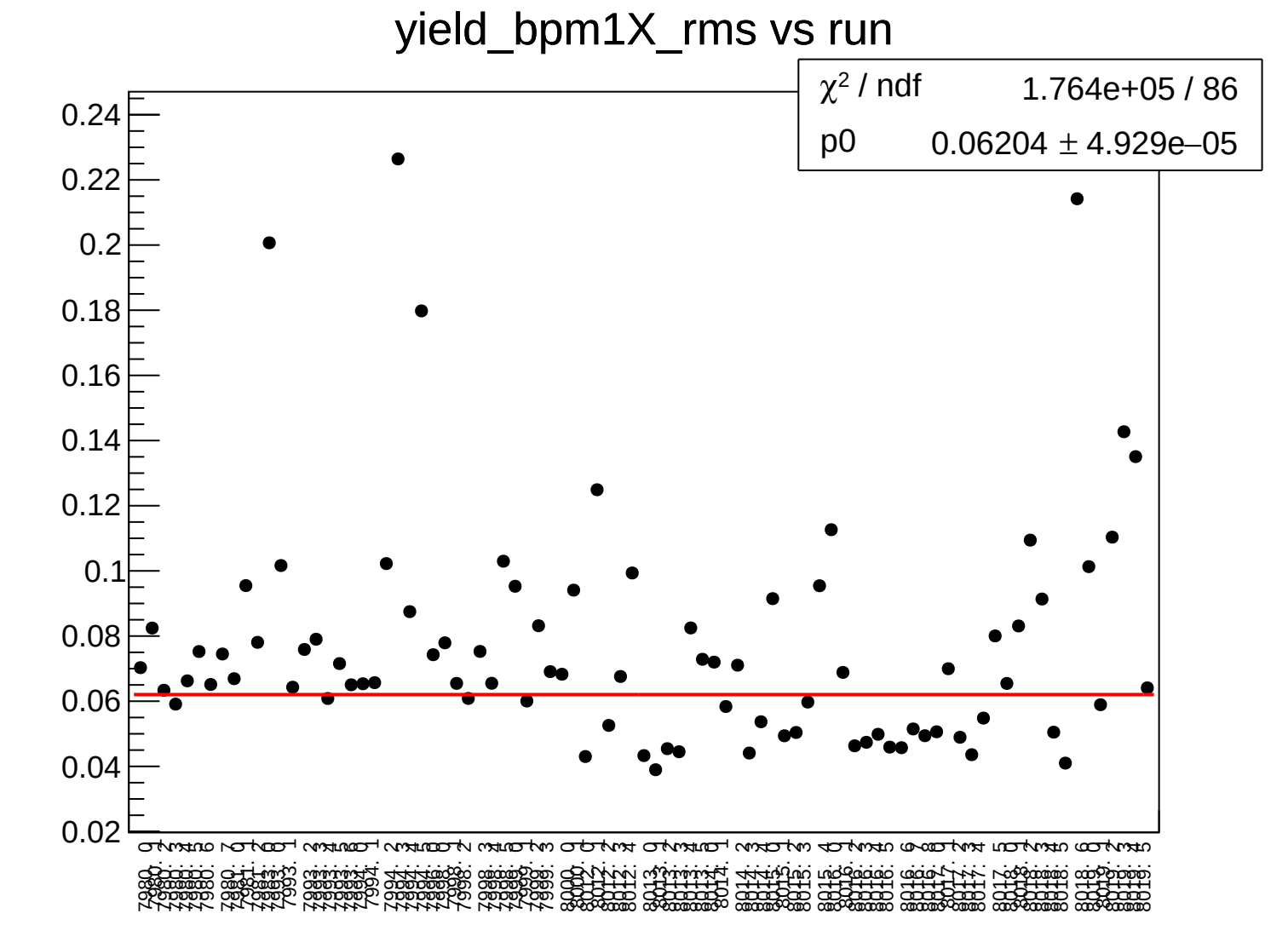

yield_bpm4ecX_rms vs run
χ² / ndf 1.004e+05 / 86
p0 0.06238 ± 4.841e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

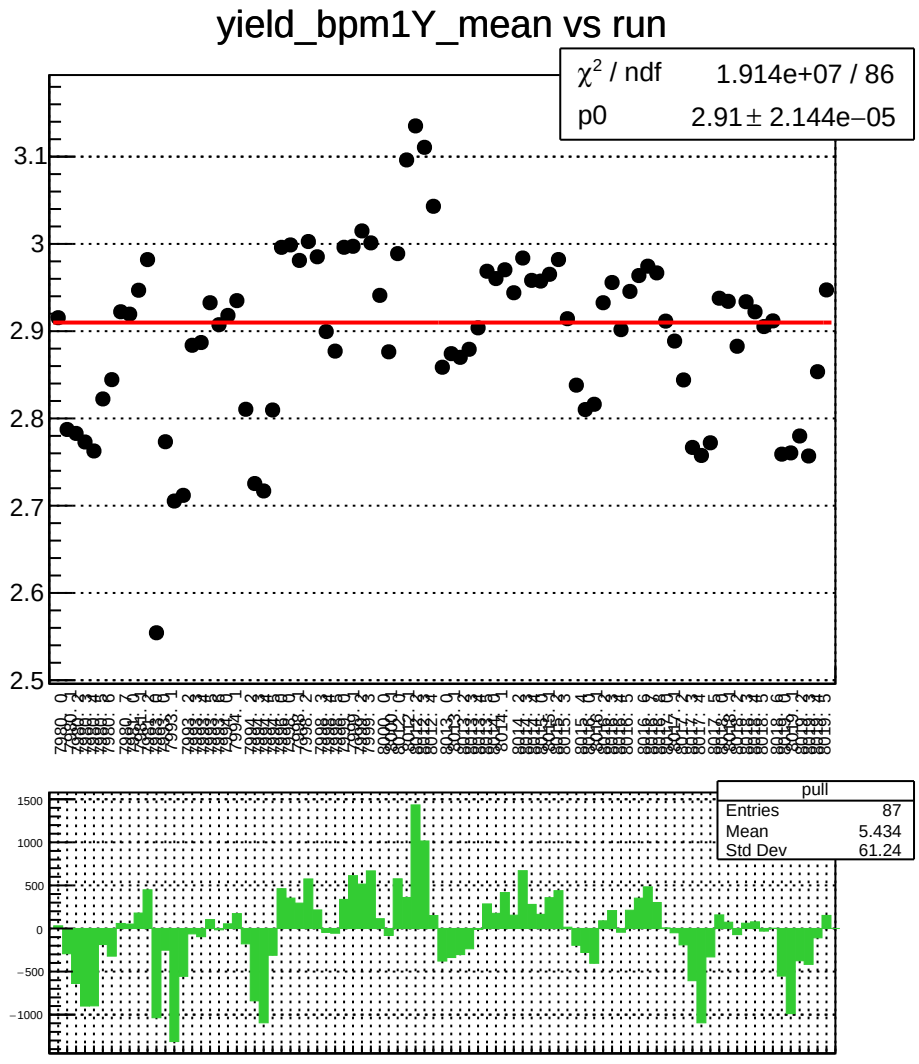

yield_bpm4ecY_mean vs run
χ² / ndf 1.22e+05 / 86
p0 −0.04399 ± 1.381e−05
−0.015
−0.02
−0.025
−0.03
−0.035
−0.04
−0.045
−0.05
−0.055
pull
Entries 87
Mean 207
Std Dev 0
100
50
0
−50
−100

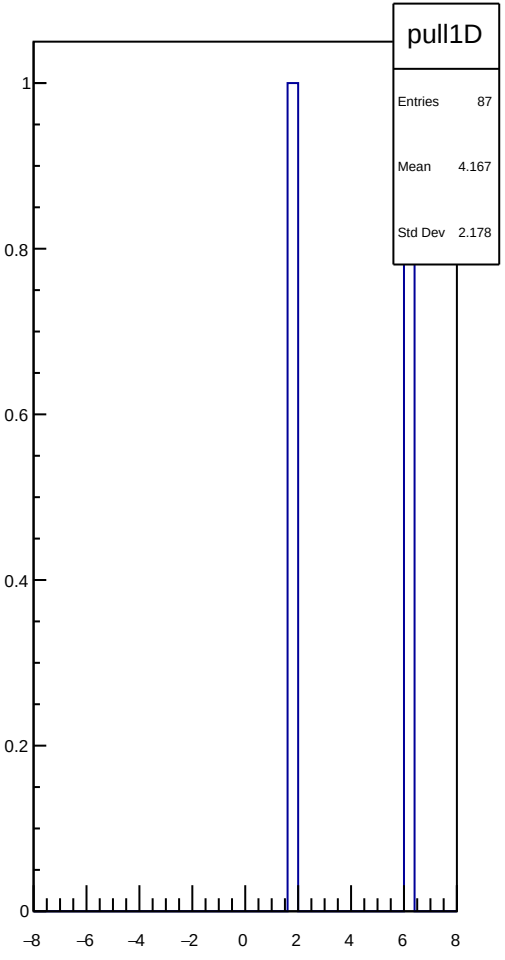

pull1D
Entries 87
Mean 0.09113
Std Dev 3.682
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

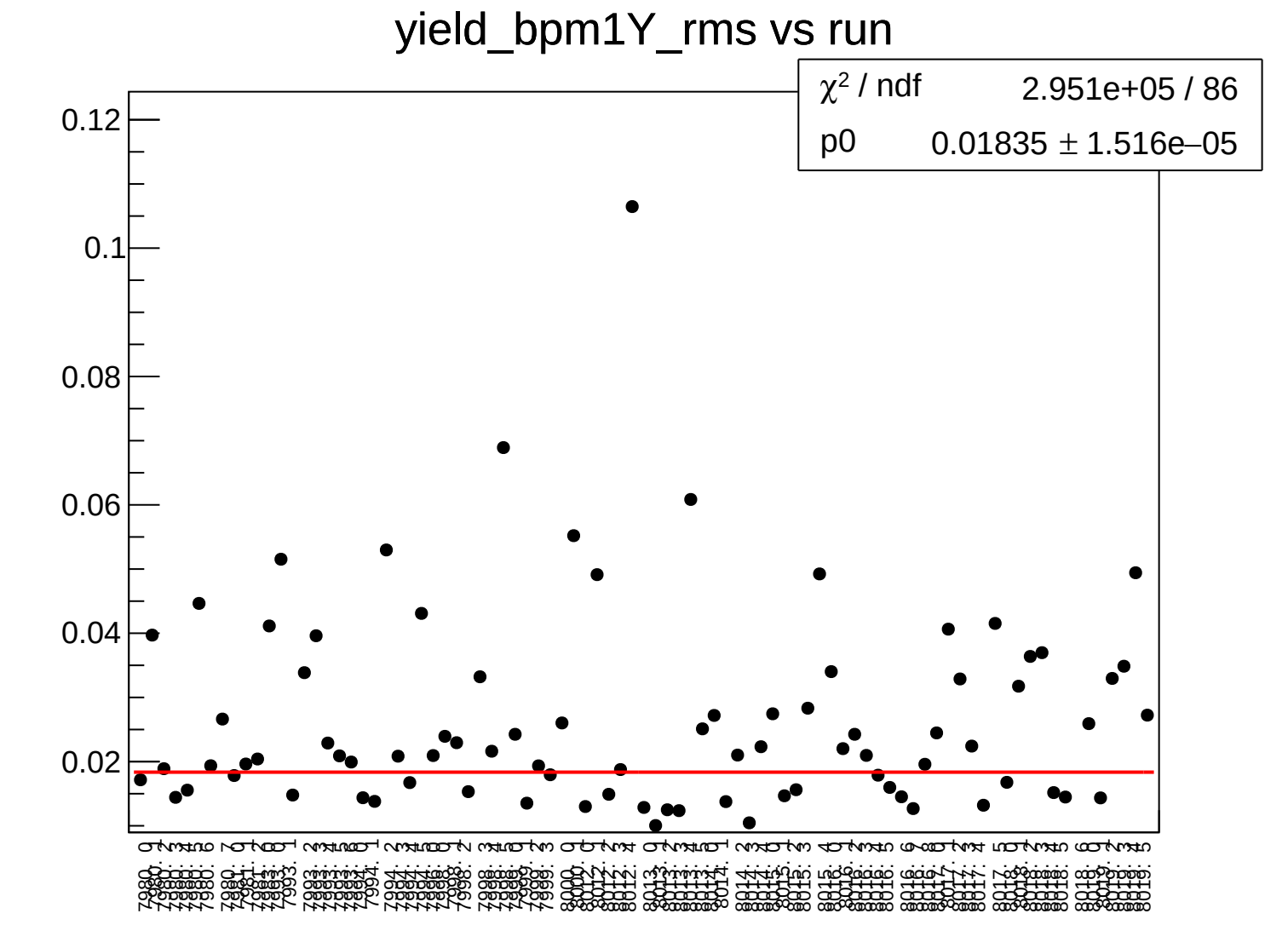

yield_bpm4ecY_rms vs run
χ² / ndf 9.047e+04 / 86
p0 0.01262 ± 9.765e–06
0.06
0.05
0.04
0.03
0.02
0.01

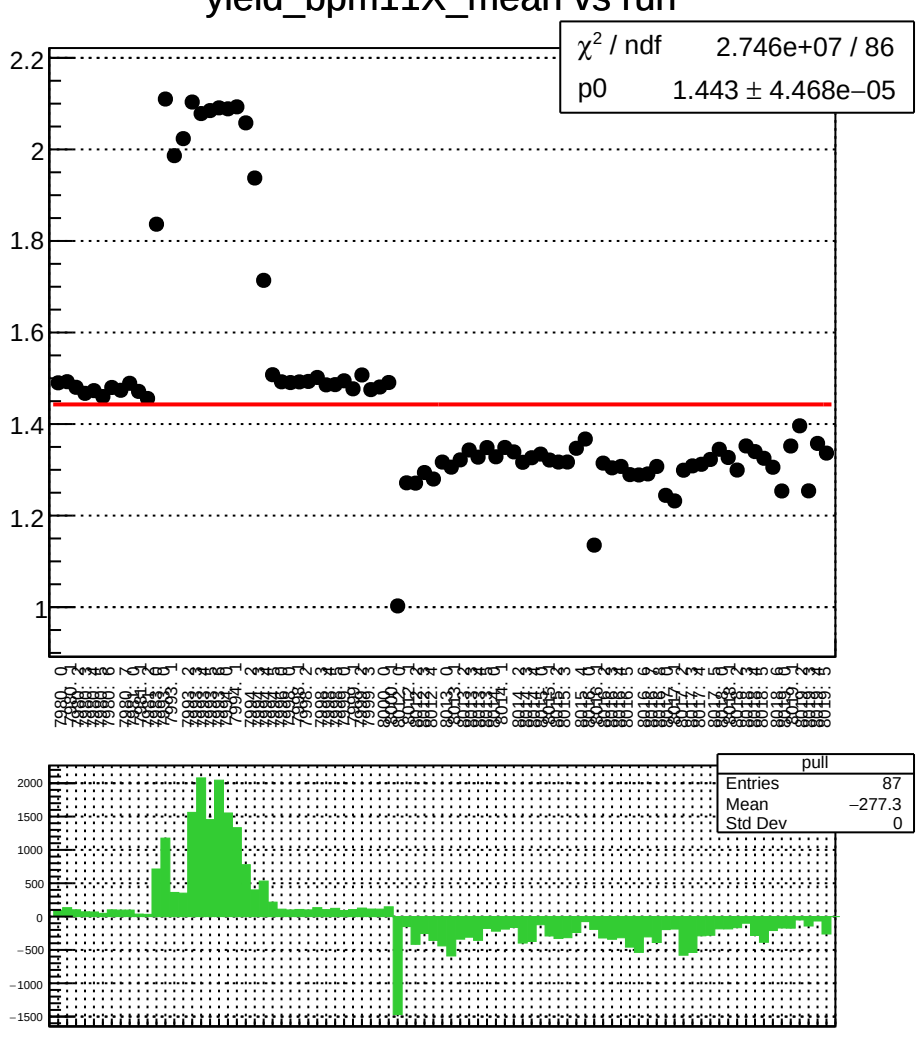

yield_bpm1X_mean vs run
χ² / ndf 4.596e+08 / 86
p0 –2.468 ± 6.97e–05
pull
Entries 87
Mean –115.6
Std Dev 0
pull1D
Entries 87
Mean 0
Std Dev 0

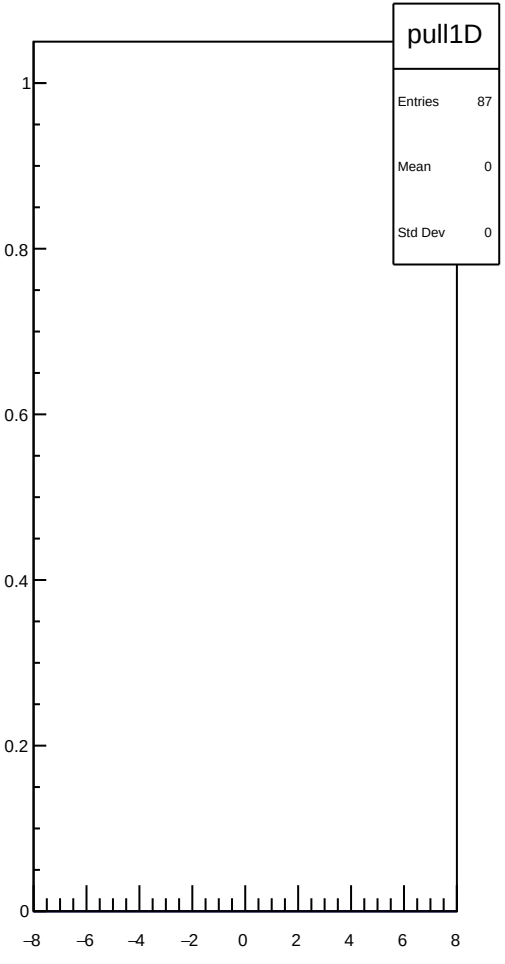

yield_bpm1X_rms vs run
χ² / ndf 1.764e+05 / 86
p0 0.06204 ± 4.929e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

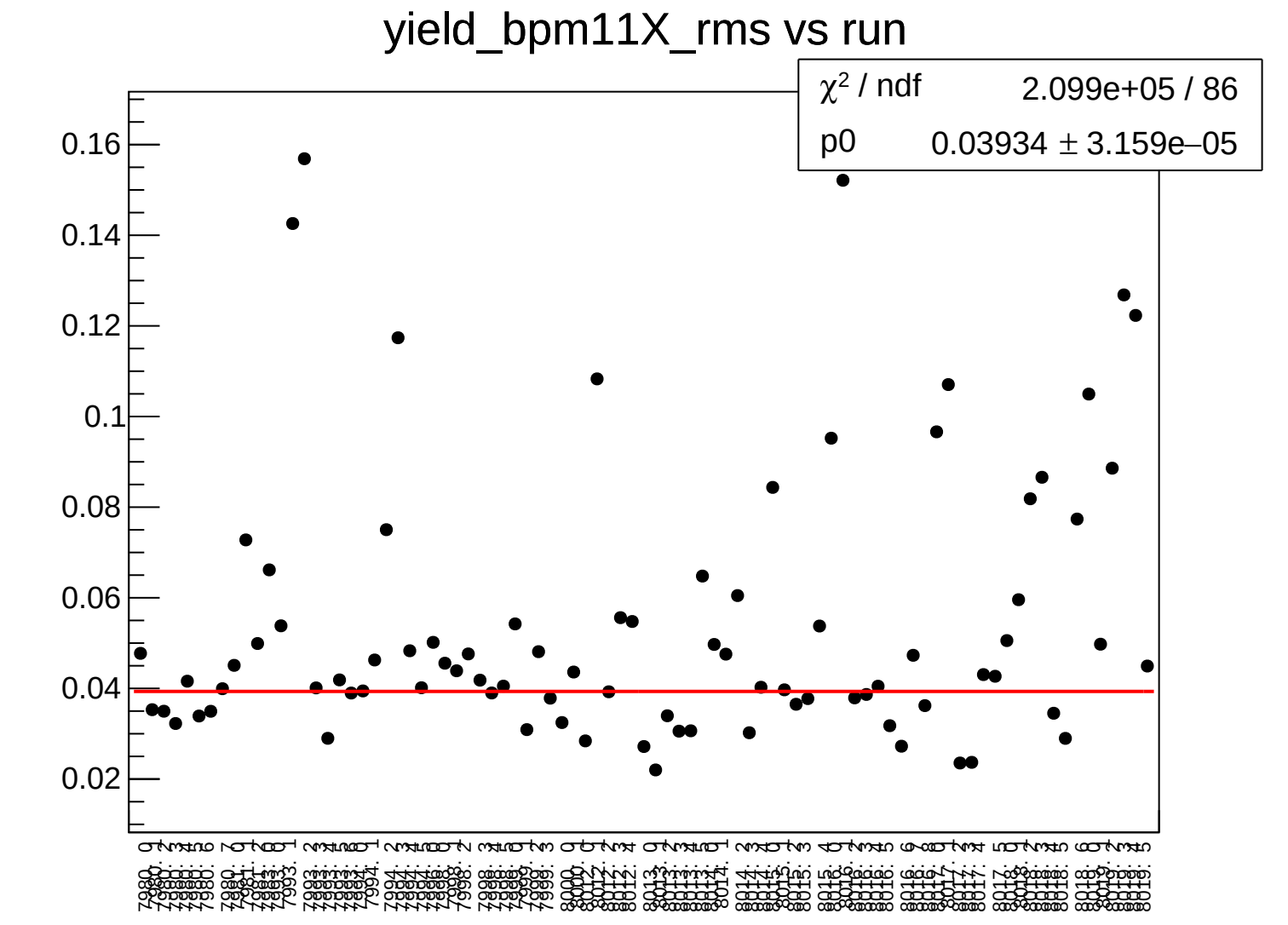

yield_bpm1Y_mean vs run
χ² / ndf 1.914e+07 / 86
p0 2.91 ± 2.144e−05
pull
Entries 87
Mean 5.434
Std Dev 61.24

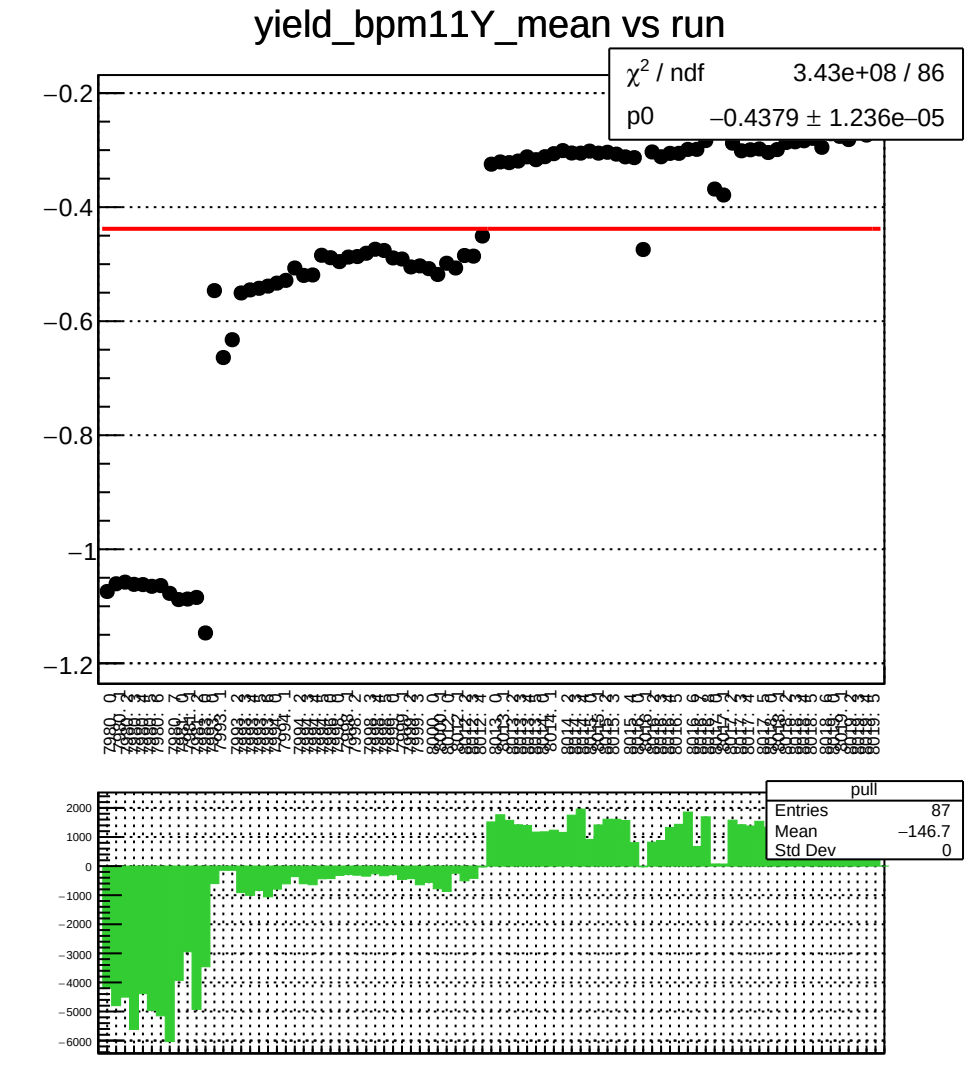

pull1D
Entries 87
Mean 4.167
Std Dev 2.178

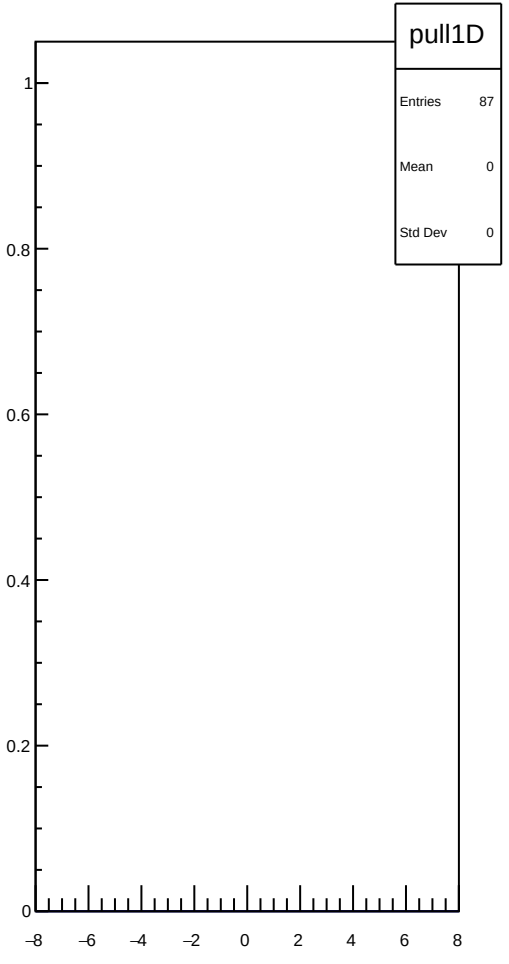

yield_bpm1Y_rms vs run
χ² / ndf 2.951e+05 / 86
p0 0.01835 ± 1.516e−05
0.12
0.1
0.08
0.06
0.04
0.02

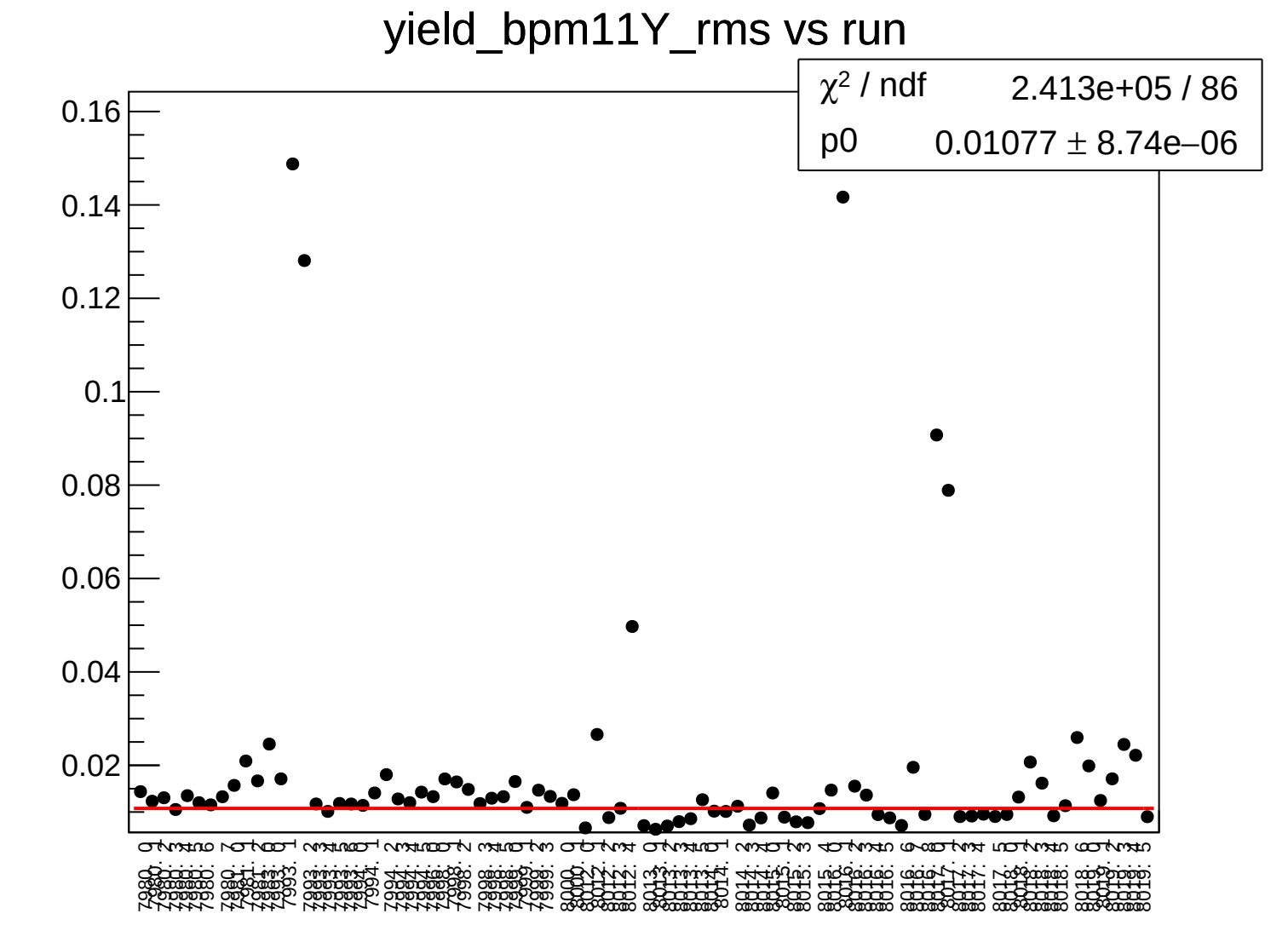

yield_bpm11X_mean vs run
χ² / ndf 2.746e+07 / 86
p0 1.443 ± 4.468e−05
pull
Entries 87
Mean −277.3
Std Dev 0

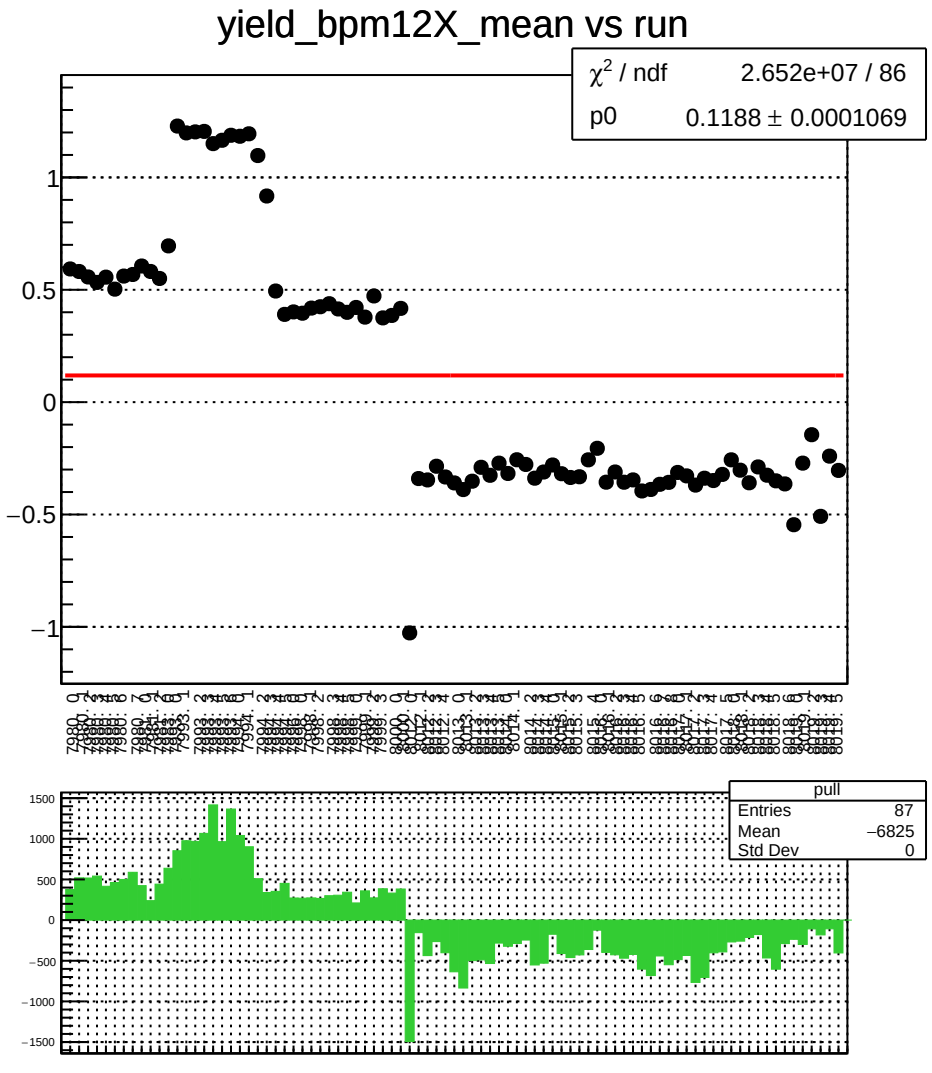

pull1D
Entries 87
Mean 0
Std Dev 0

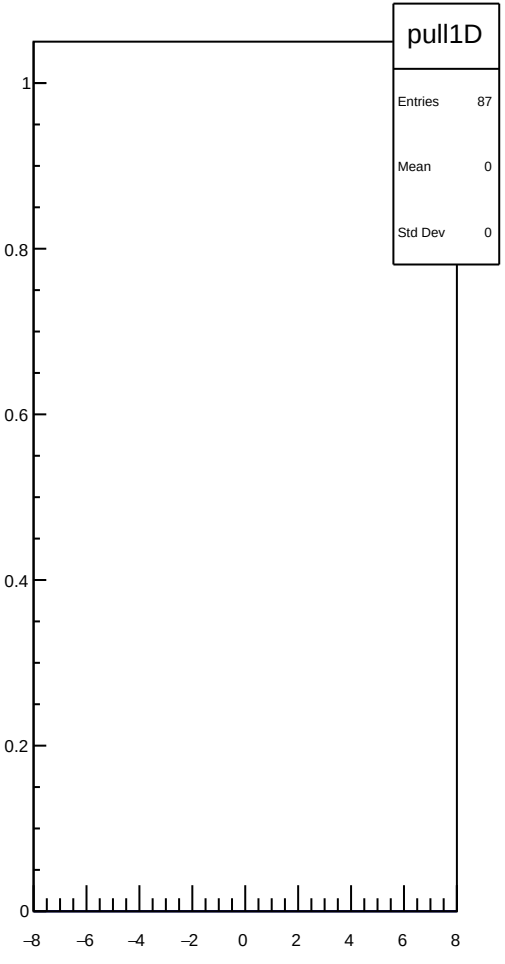

yield_bpm11X_rms vs run
χ² / ndf 2.099e+05 / 86
p0 0.03934 ± 3.159e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

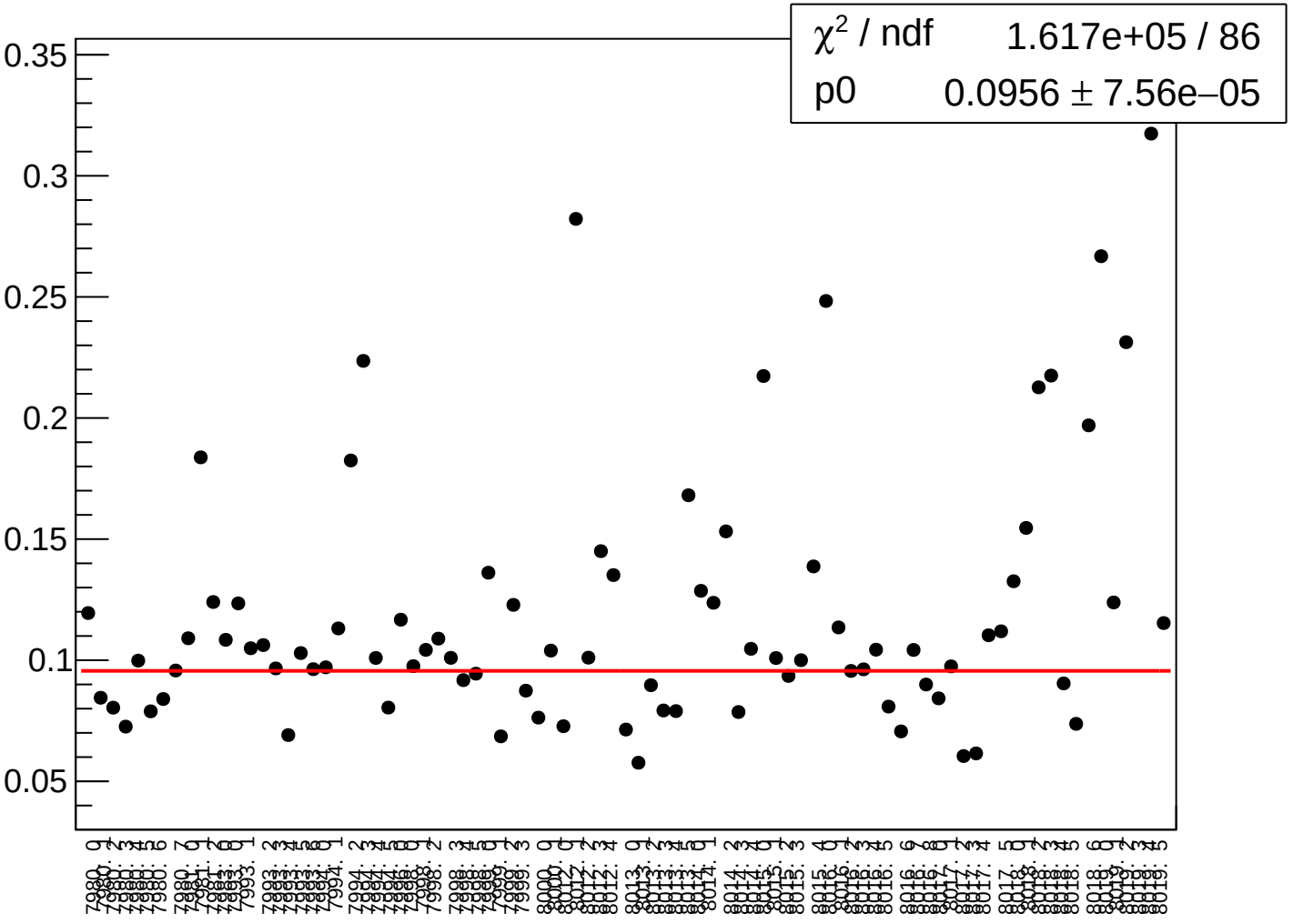

yield_bpm11Y_mean vs run
χ² / ndf 3.43e+08 / 86
p0 −0.4379 ± 1.236e−05
pull
Entries 87
Mean −146.7
Std Dev 0

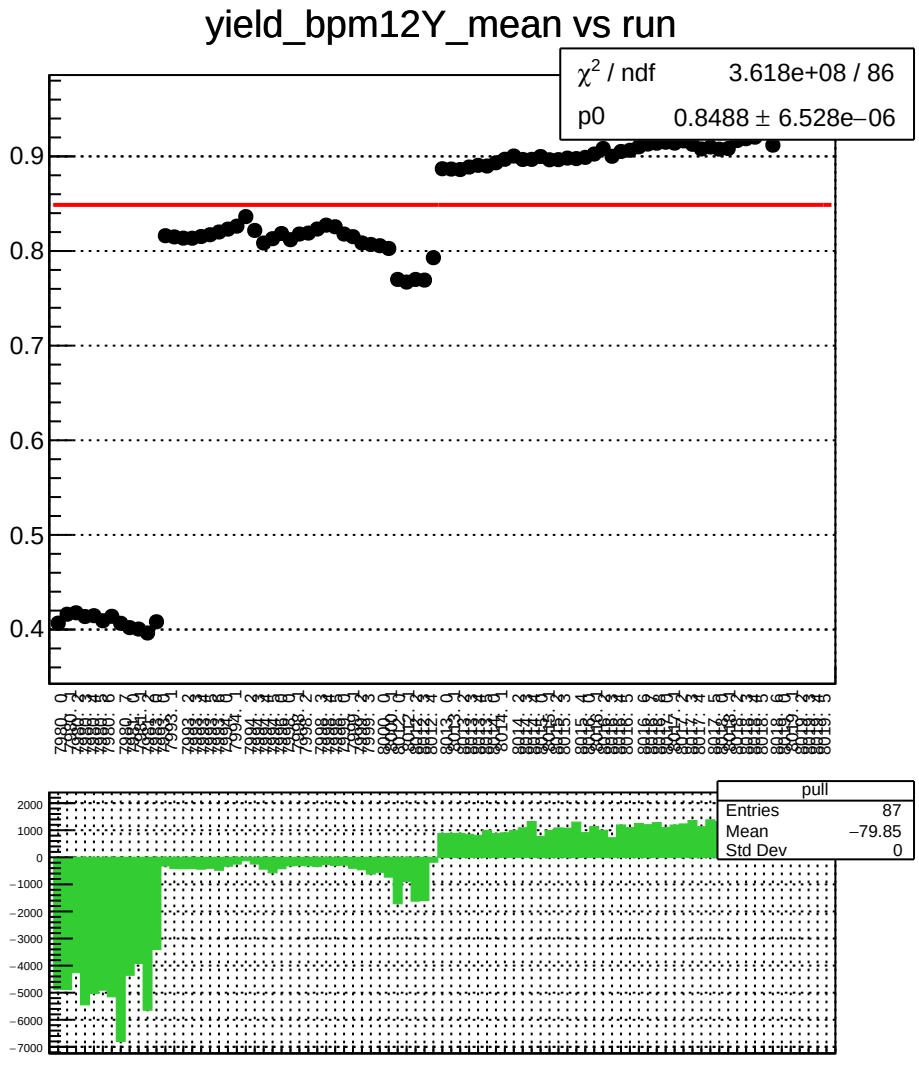

pull1D
Entries 87
Mean 0
Std Dev 0

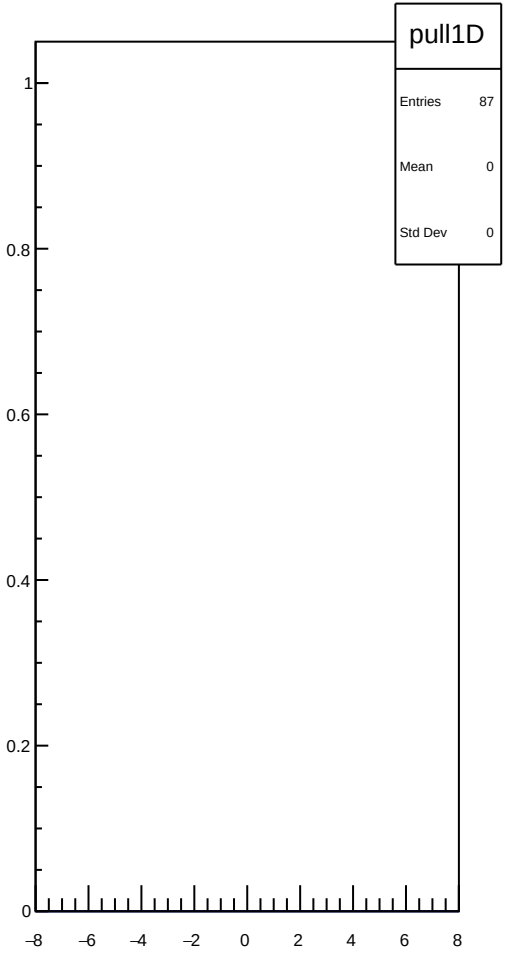

yield_bpm11Y_rms vs run
χ² / ndf 2.413e+05 / 86
p0 0.01077 ± 8.74e−06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

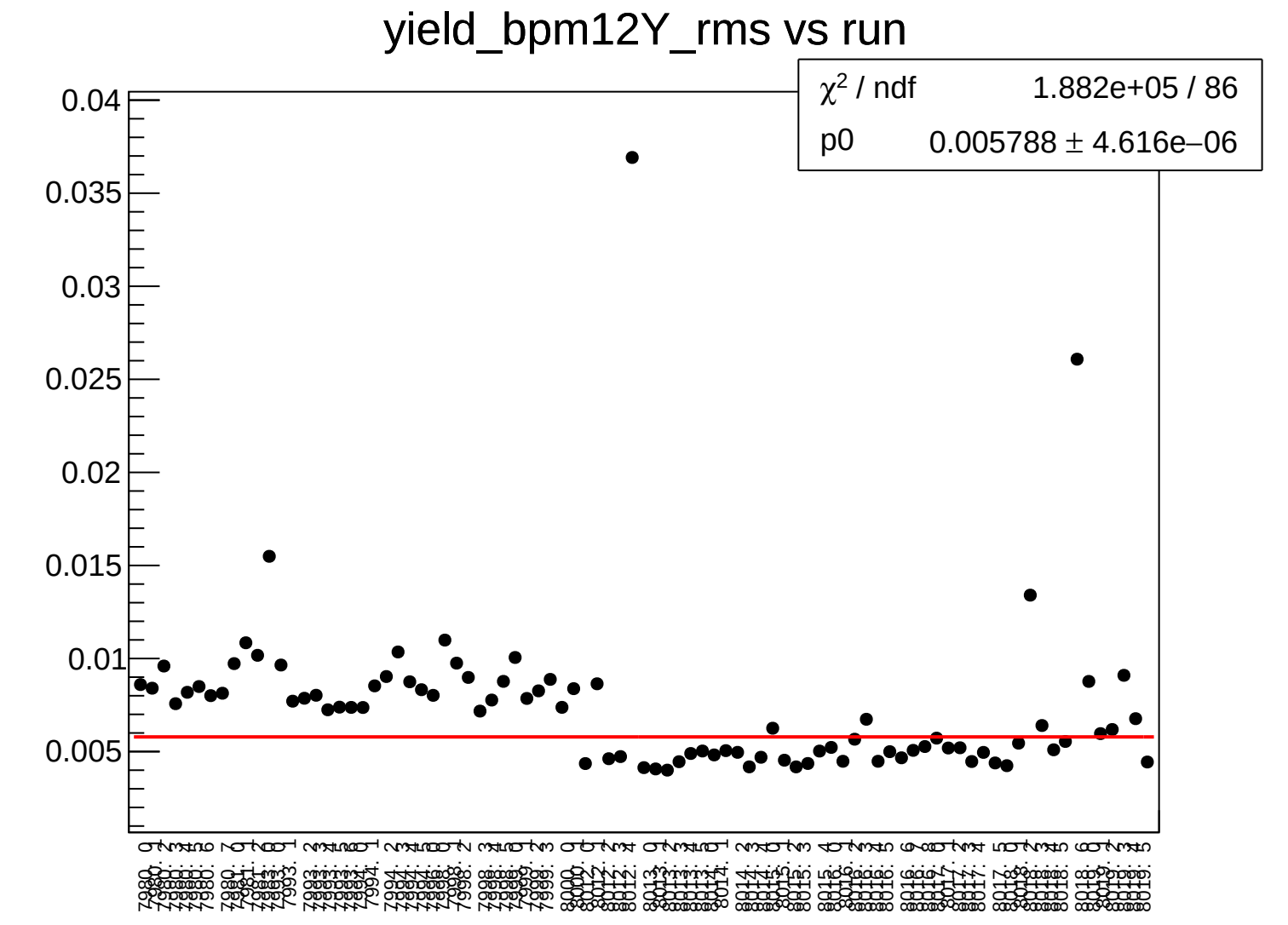

yield_bpm12X_mean vs run
χ² / ndf 2.652e+07 / 86
p0 0.1188 ± 0.0001069
pull
Entries 87
Mean −6825
Std Dev 0

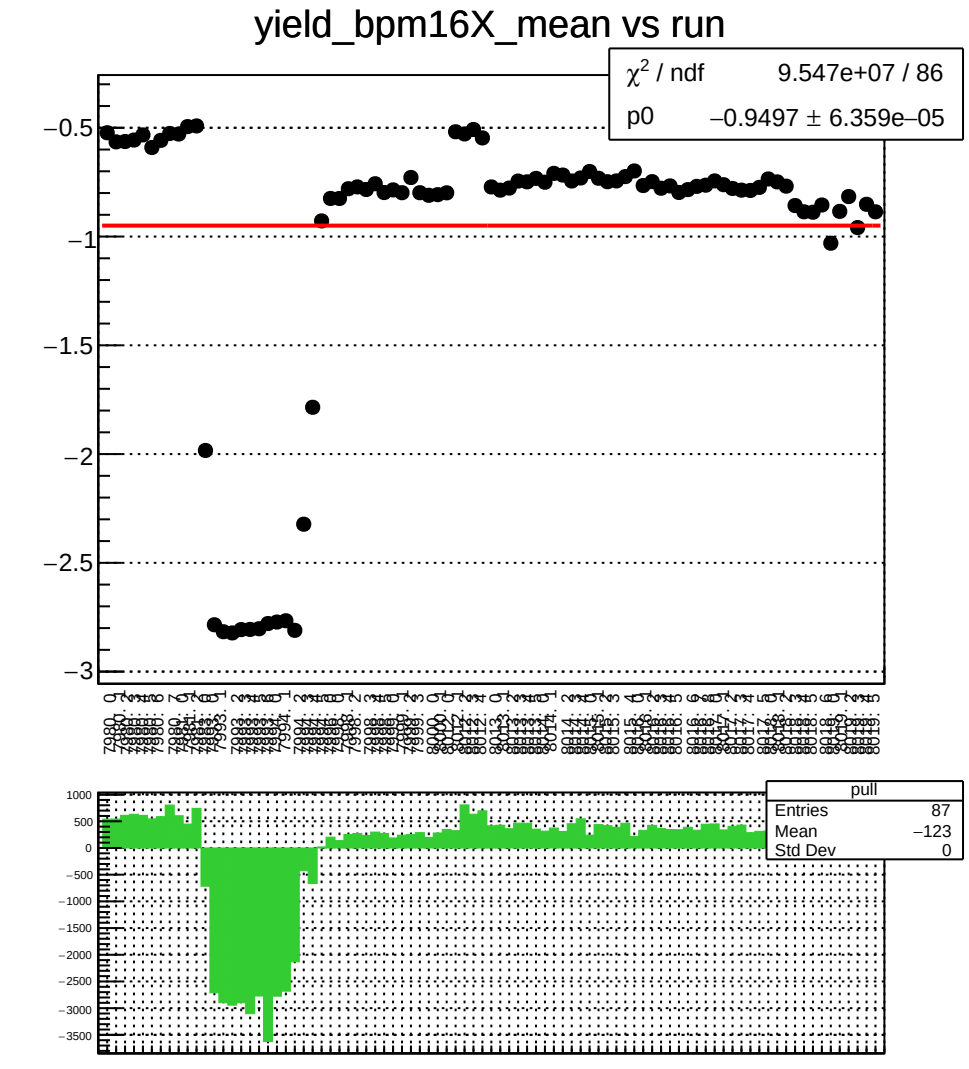

pull1D
Entries 87
Mean 0
Std Dev 0

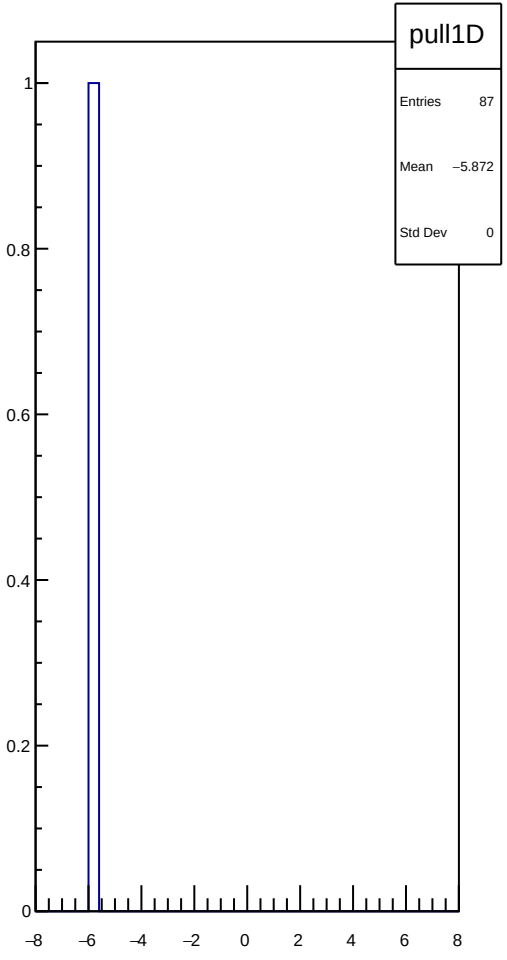

yield_bpm12X_rms vs run
χ² / ndf 1.617e+05 / 86
p0 0.0956 ± 7.56e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

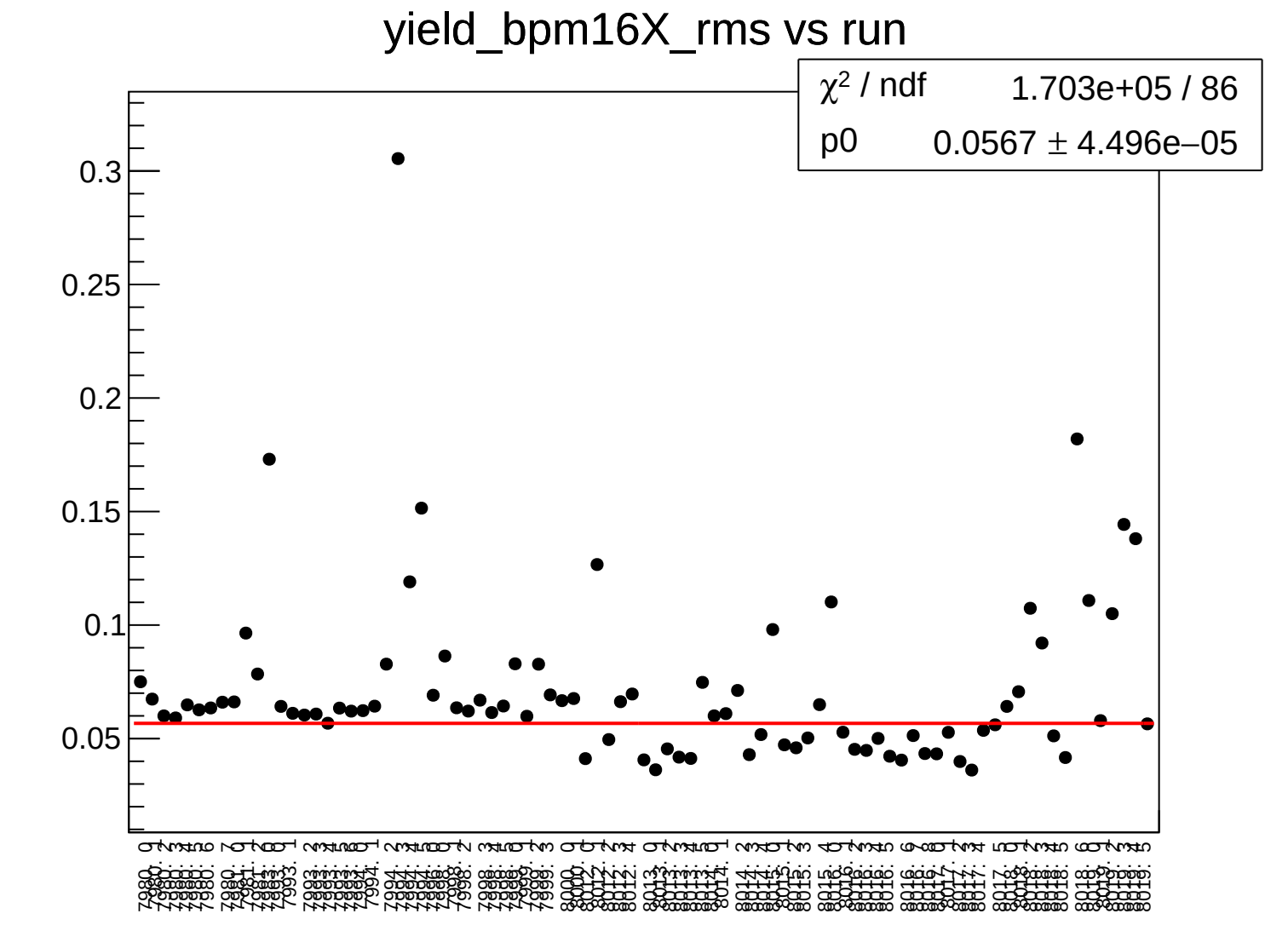

yield_bpm12Y_mean vs run
χ² / ndf 3.618e+08 / 86
p0 0.8488 ± 6.528e−06
0.9
0.8
0.7
0.6
0.5
0.4
pull
Entries 87
Mean −79.85
Std Dev 0
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000

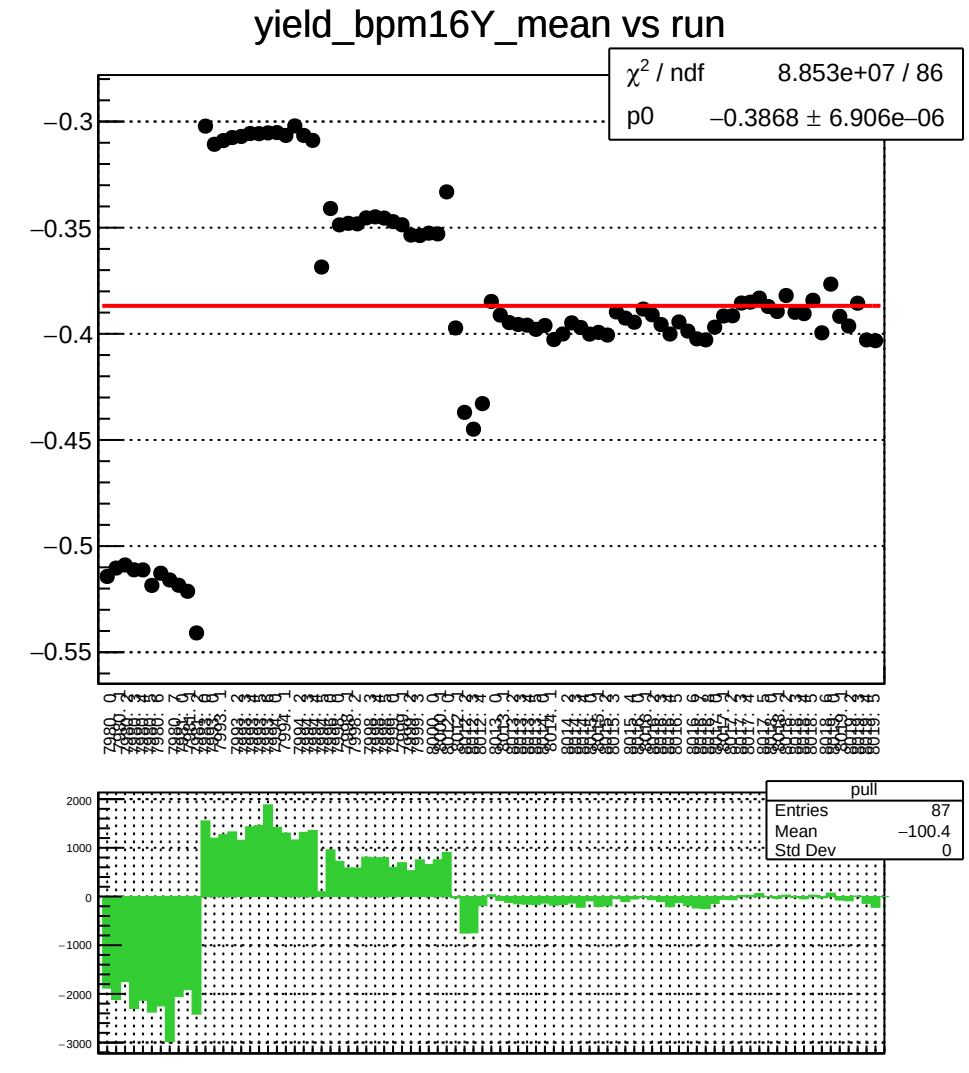

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

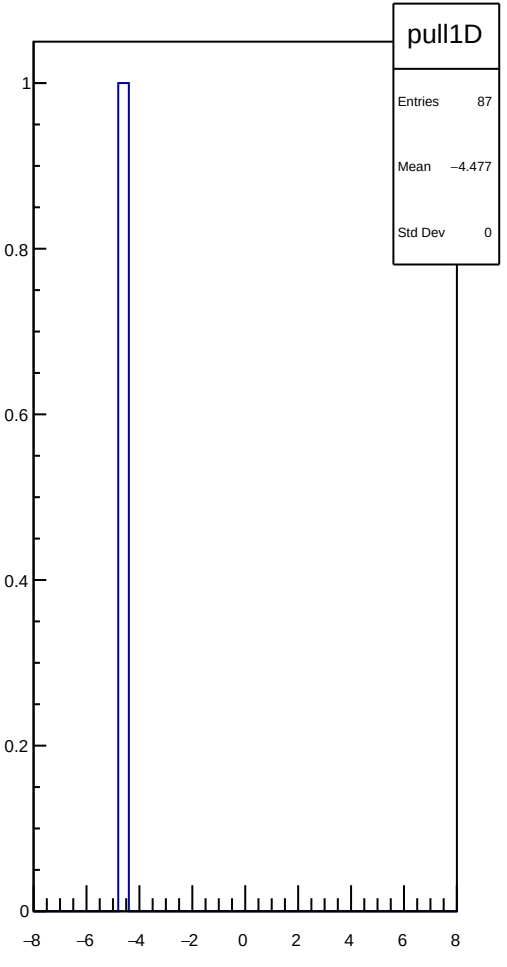

yield_bpm12Y_rms vs run
χ² / ndf 1.882e+05 / 86
p0 0.005788 ± 4.616e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

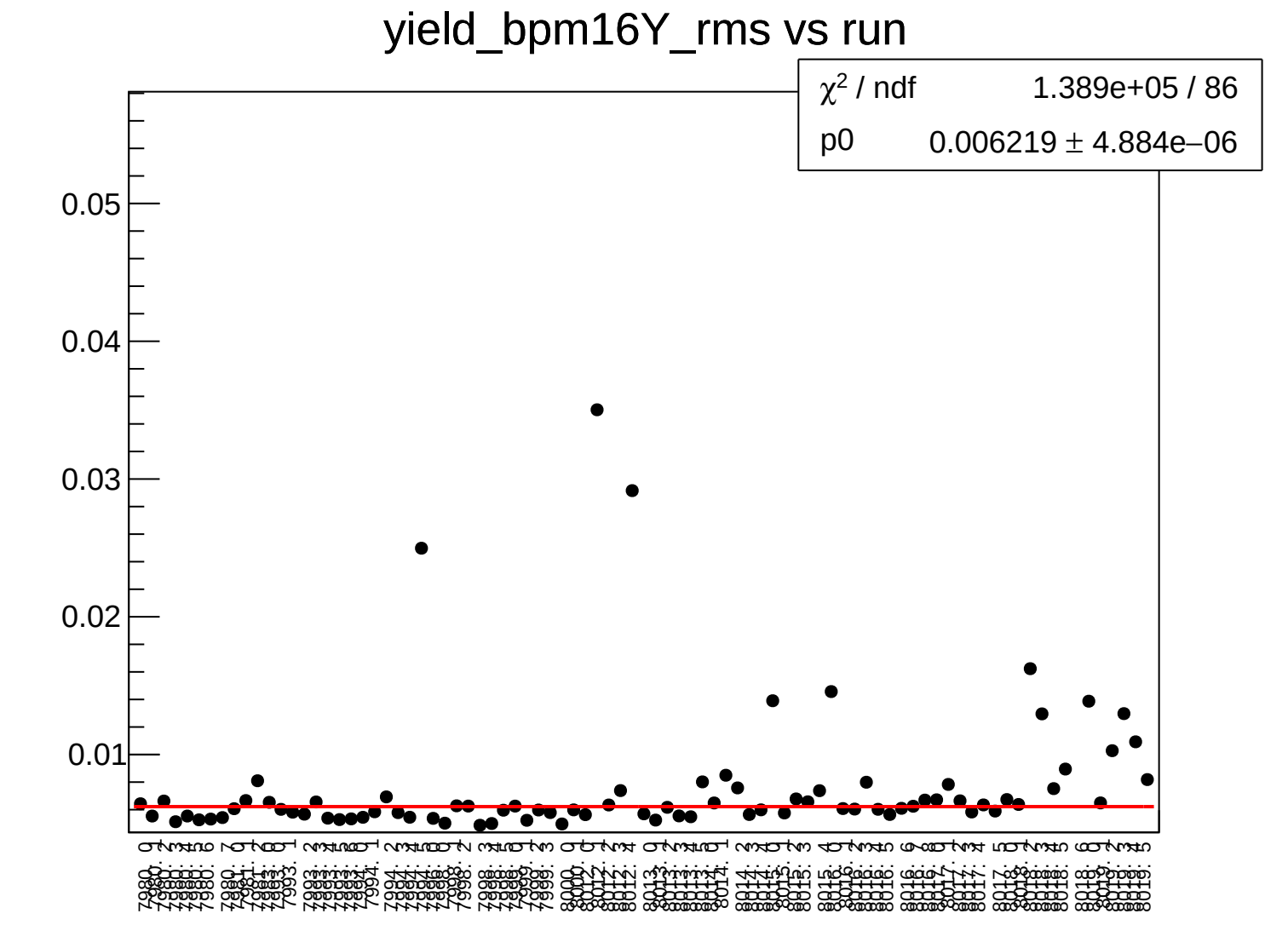

yield_bpm16X_mean vs run
χ² / ndf 9.547e+07 / 86
p0 −0.9497 ± 6.359e−05
pull
Entries 87
Mean −123
Std Dev 0

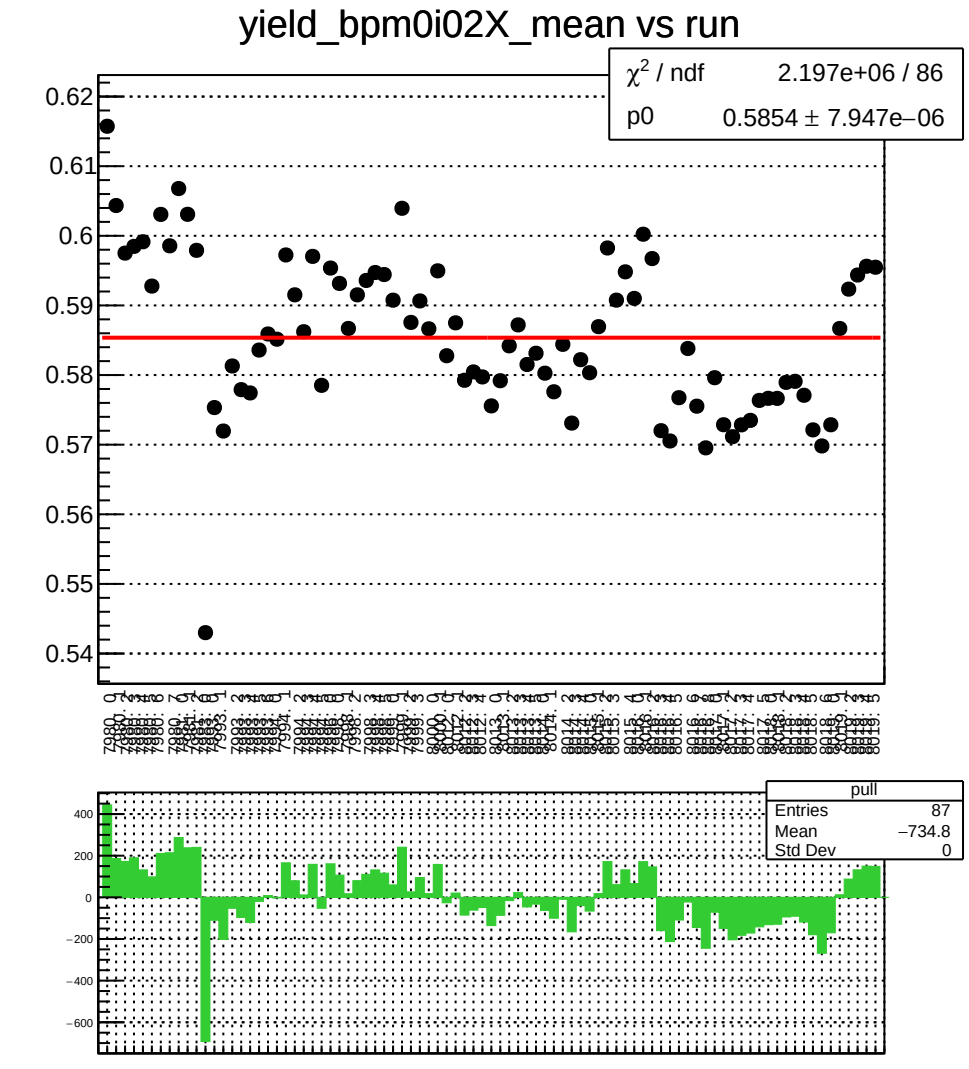

pull1D
Entries 87
Mean −5.872
Std Dev 0

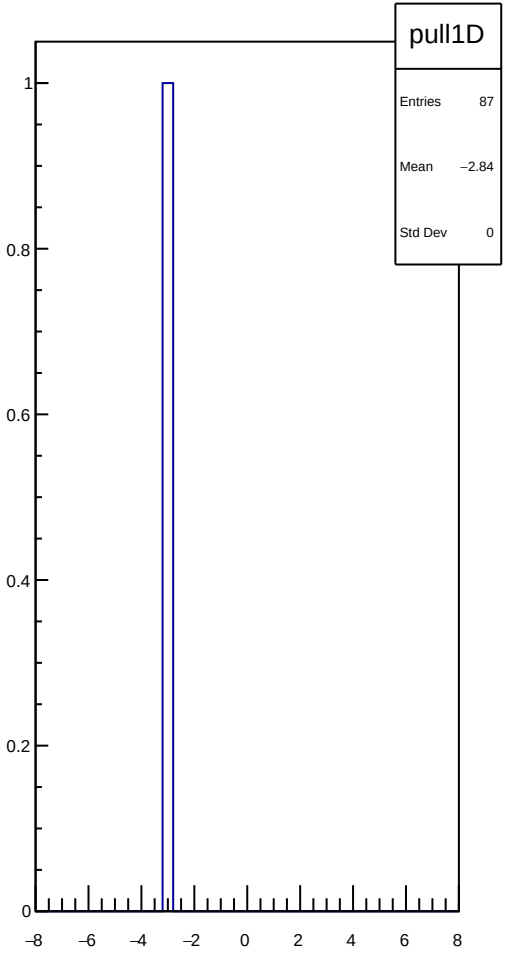

yield_bpm16X_rms vs run
χ² / ndf 1.703e+05 / 86
p0 0.0567 ± 4.496e−05
0.3
0.25
0.2
0.15
0.1
0.05

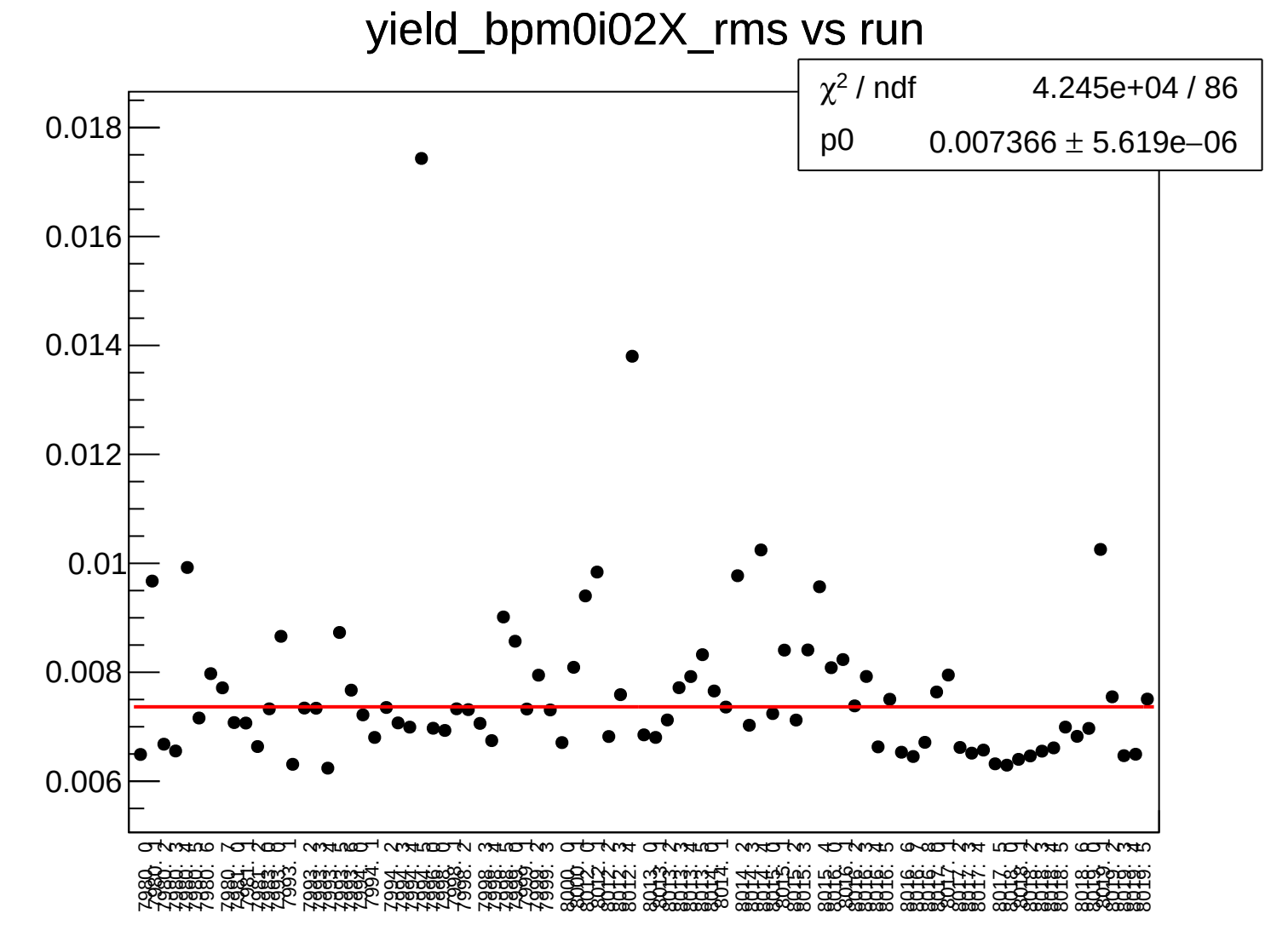

yield_bpm16Y_mean vs run
χ² / ndf 8.853e+07 / 86
p0 −0.3868 ± 6.906e−06
−0.3
−0.35
−0.4
−0.45
−0.5
−0.55
pull
Entries 87
Mean −100.4
Std Dev 0
2000
1000
0
−1000
−2000
−3000

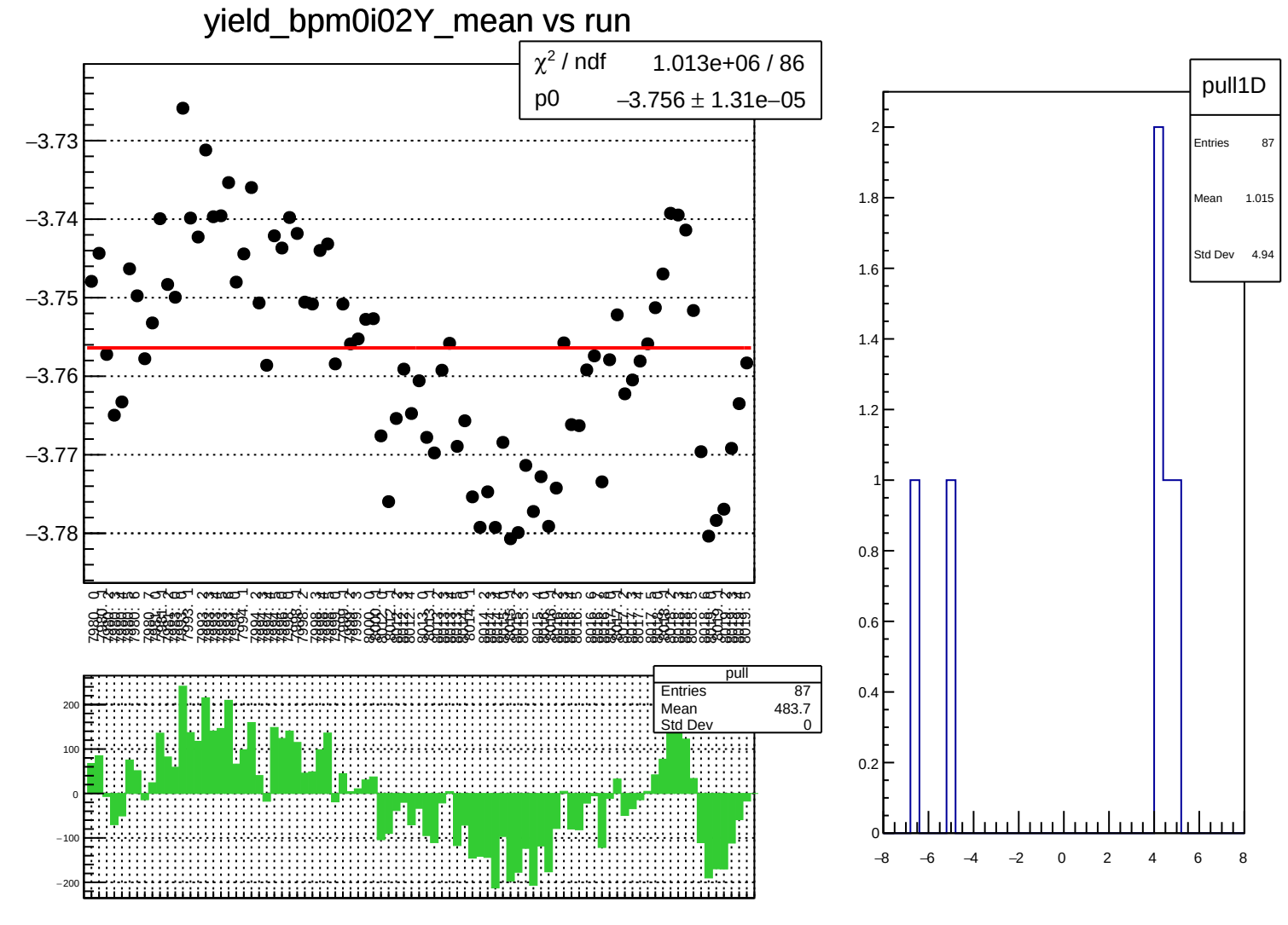

pull1D
Entries 87
Mean −4.477
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

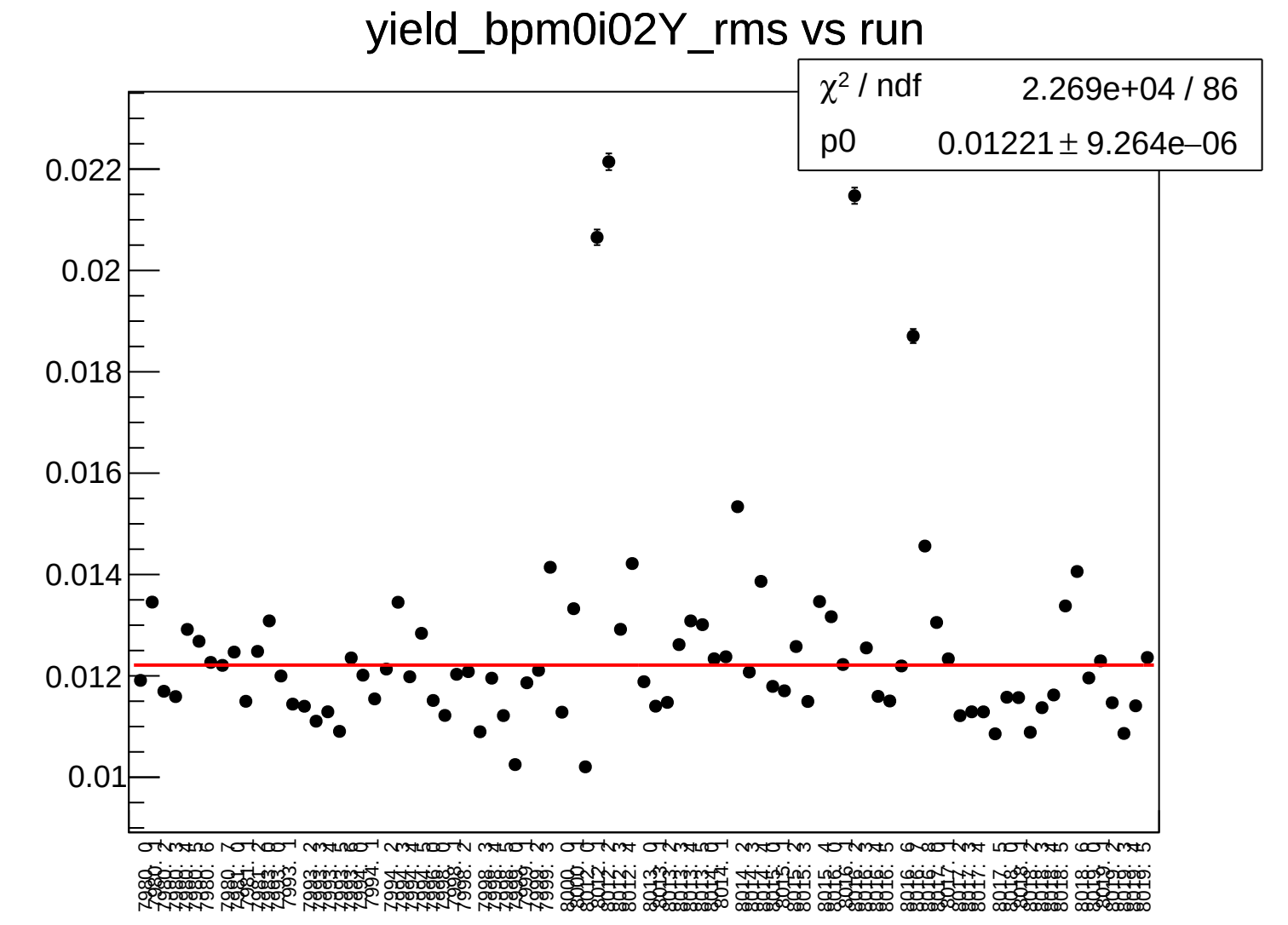

yield_bpm16Y_rms vs run
χ² / ndf 1.389e+05 / 86
p0 0.006219 ± 4.884e−06
0.05
0.04
0.03
0.02
0.01

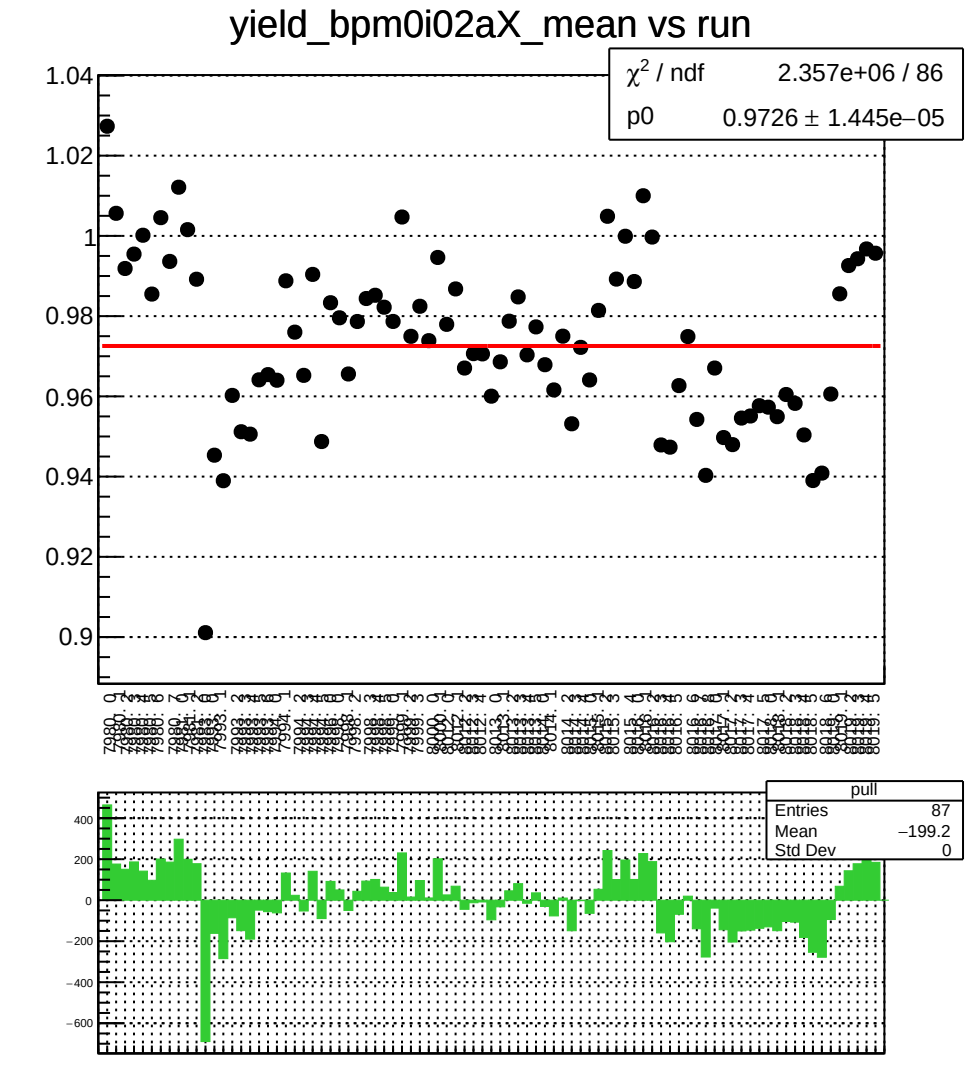

yield_bpm0i02X_mean vs run
χ² / ndf 2.197e+06 / 86
p0 0.5854 ± 7.947e−06
0.62
0.61
0.6
0.59
0.58
0.57
0.56
0.55
0.54
pull
Entries 87
Mean −734.8
Std Dev 0
400
200
0
−200
−400
−600

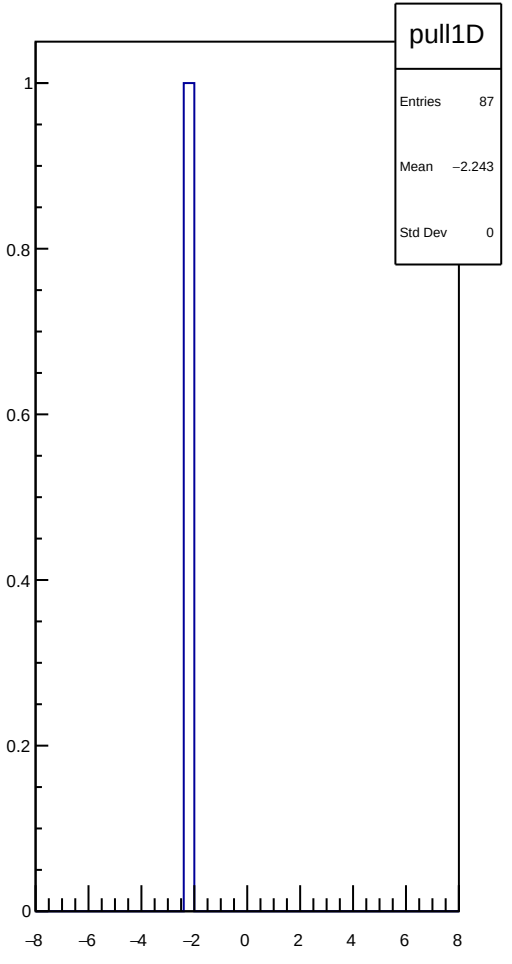

pull1D
Entries 87
Mean −2.84
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

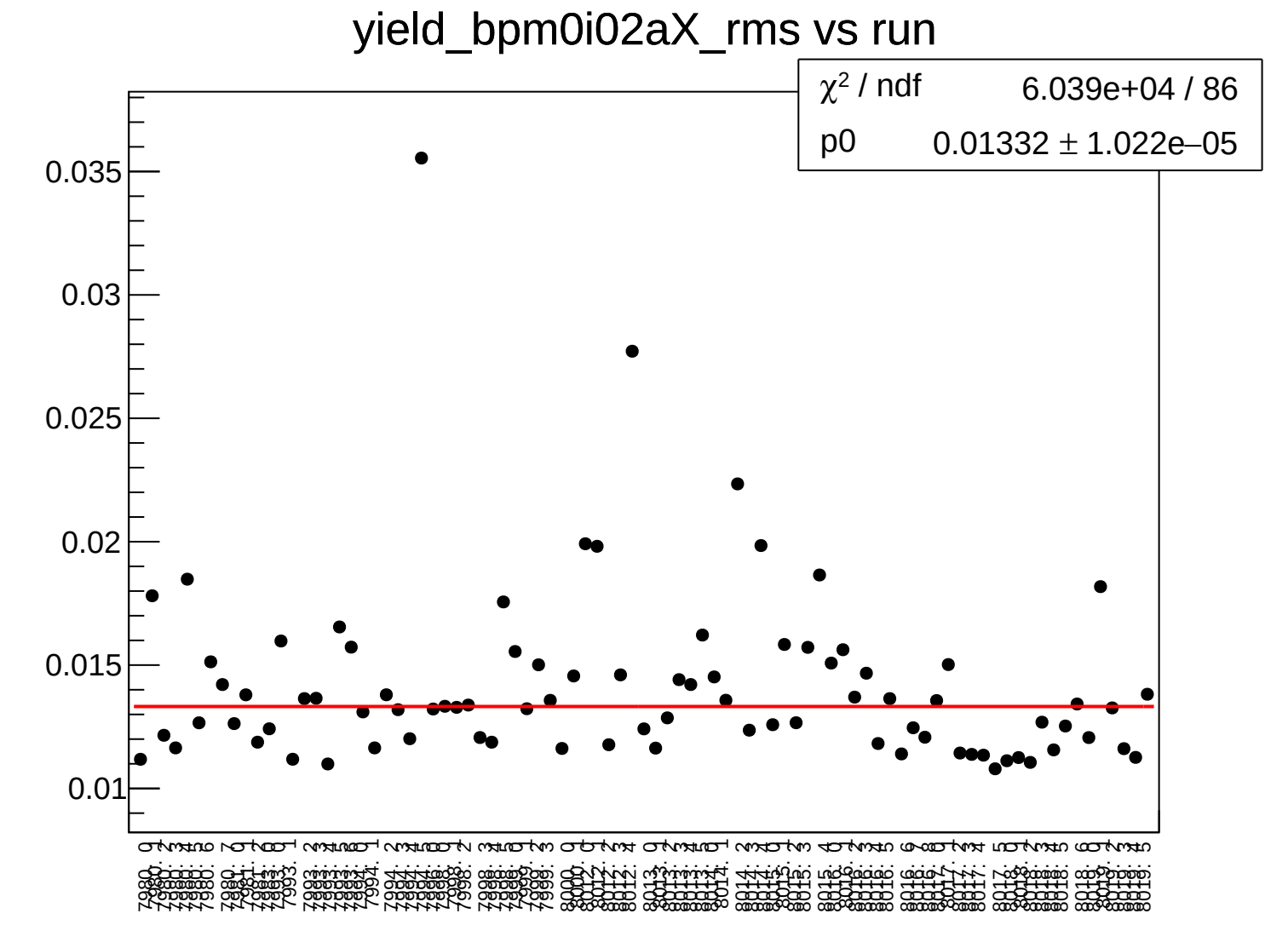

yield_bpm0i02X_rms vs run
χ^2 / ndf 4.245e+04 / 86
p0 0.007366 ± 5.619e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

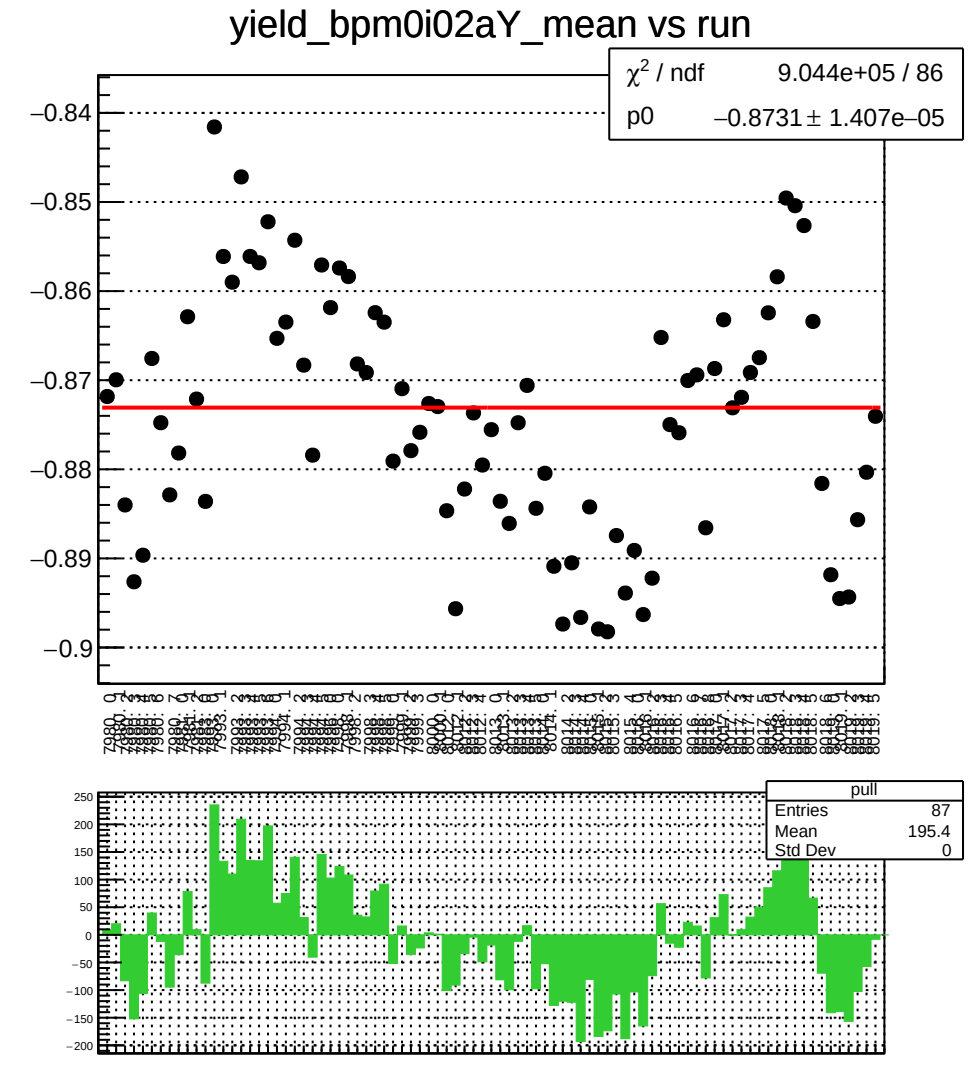

yield_bpm0i02Y_mean vs run
χ² / ndf 1.013e+06 / 86
p0 –3.756 ± 1.31e–05
–3.73
–3.74
–3.75
–3.76
–3.77
–3.78
pull
Entries 87
Mean 483.7
Std Dev 0
200
100
0
–100
–200
pull1D
Entries 87
Mean 1.015
Std Dev 4.94
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

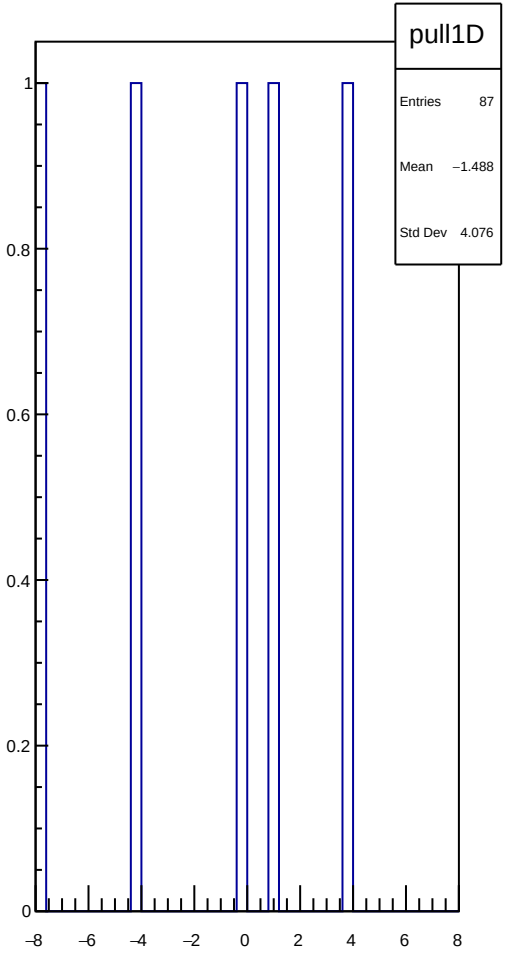

yield_bpm0i02Y_rms vs run
χ² / ndf 2.269e+04 / 86
p0 0.01221 ± 9.264e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

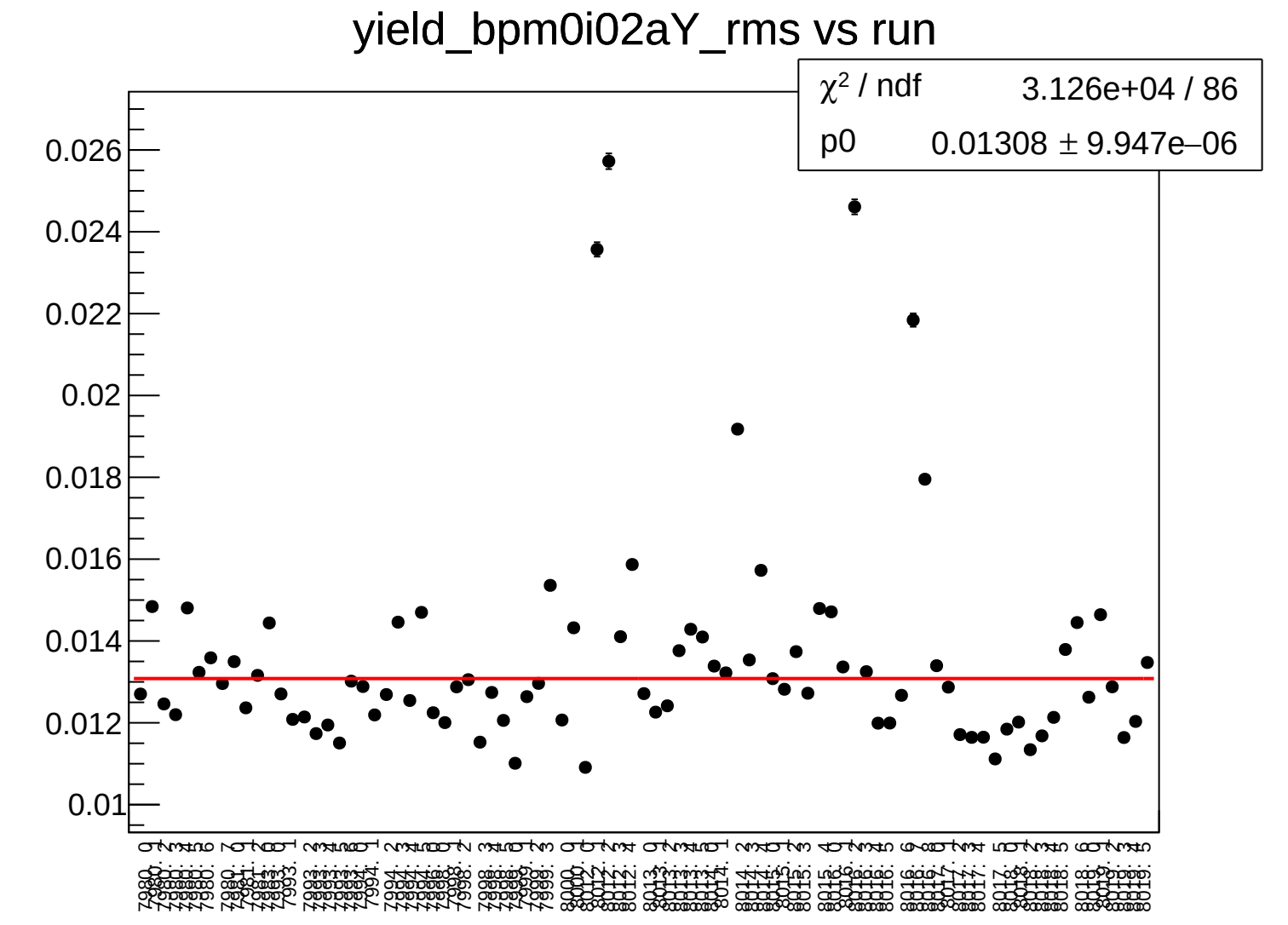

yield_bpm0i02aX_mean vs run
χ² / ndf 2.357e+06 / 86
p0 0.9726 ± 1.445e−05
1.04
1.02
1
0.98
0.96
0.94
0.92
0.9
pull
Entries 87
Mean −199.2
Std Dev 0
400
200
0
−200
−400
−600

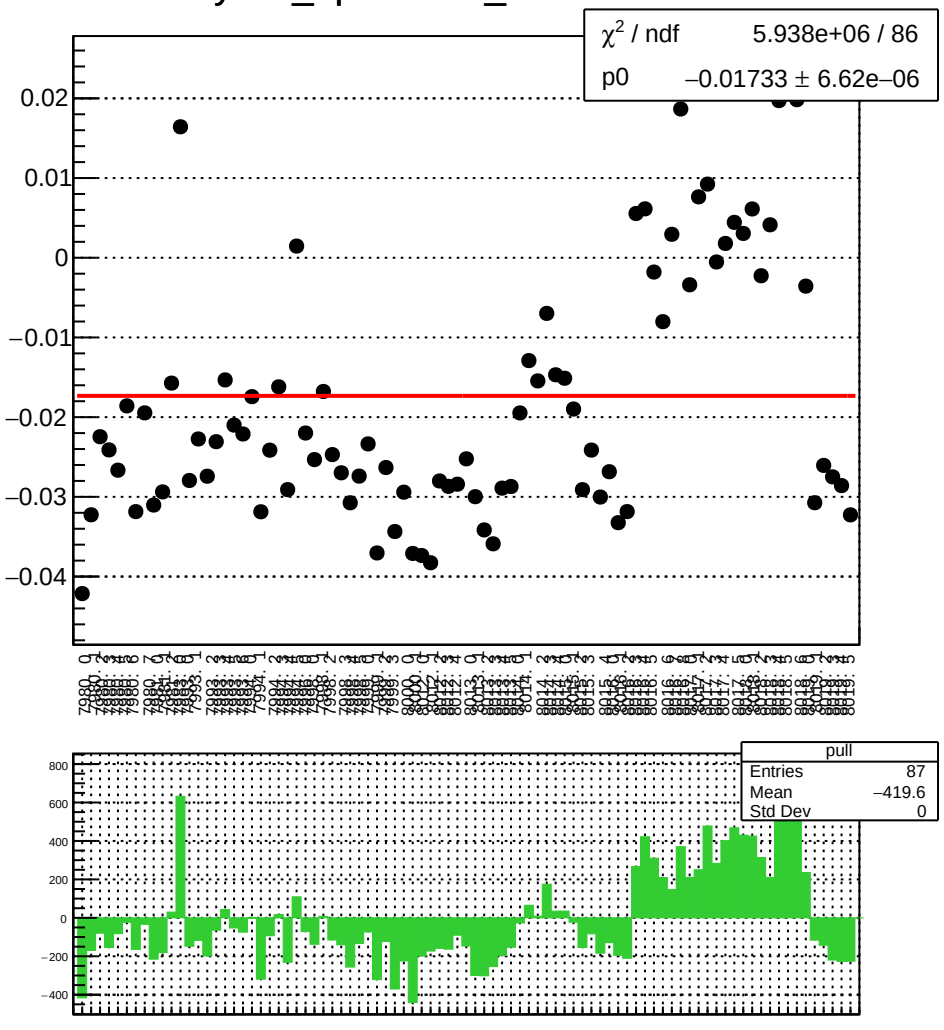

pull1D
Entries 87
Mean −2.243
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

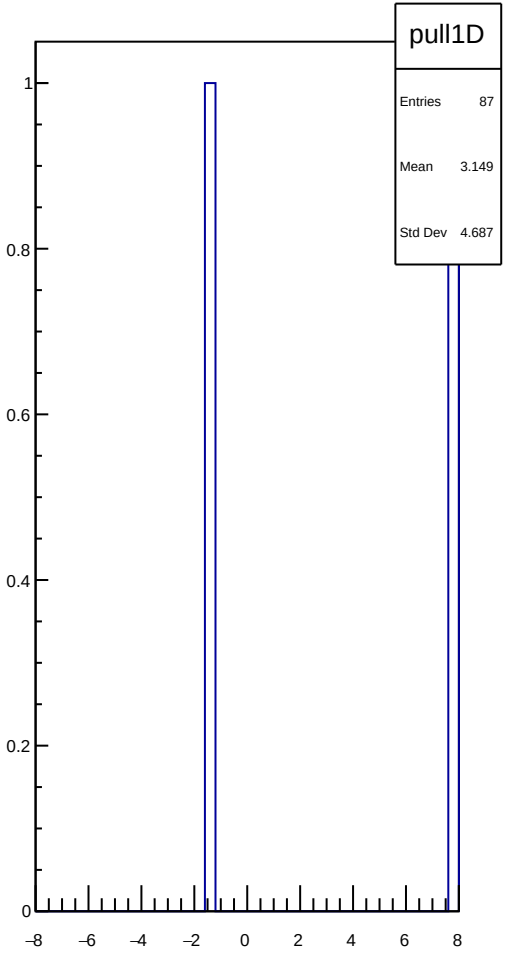

yield_bpm0i02aX_rms vs run
χ² / ndf 6.039e+04 / 86
p0 0.01332 ± 1.022e−05
0.035
0.03
0.025
0.02
0.015
0.01

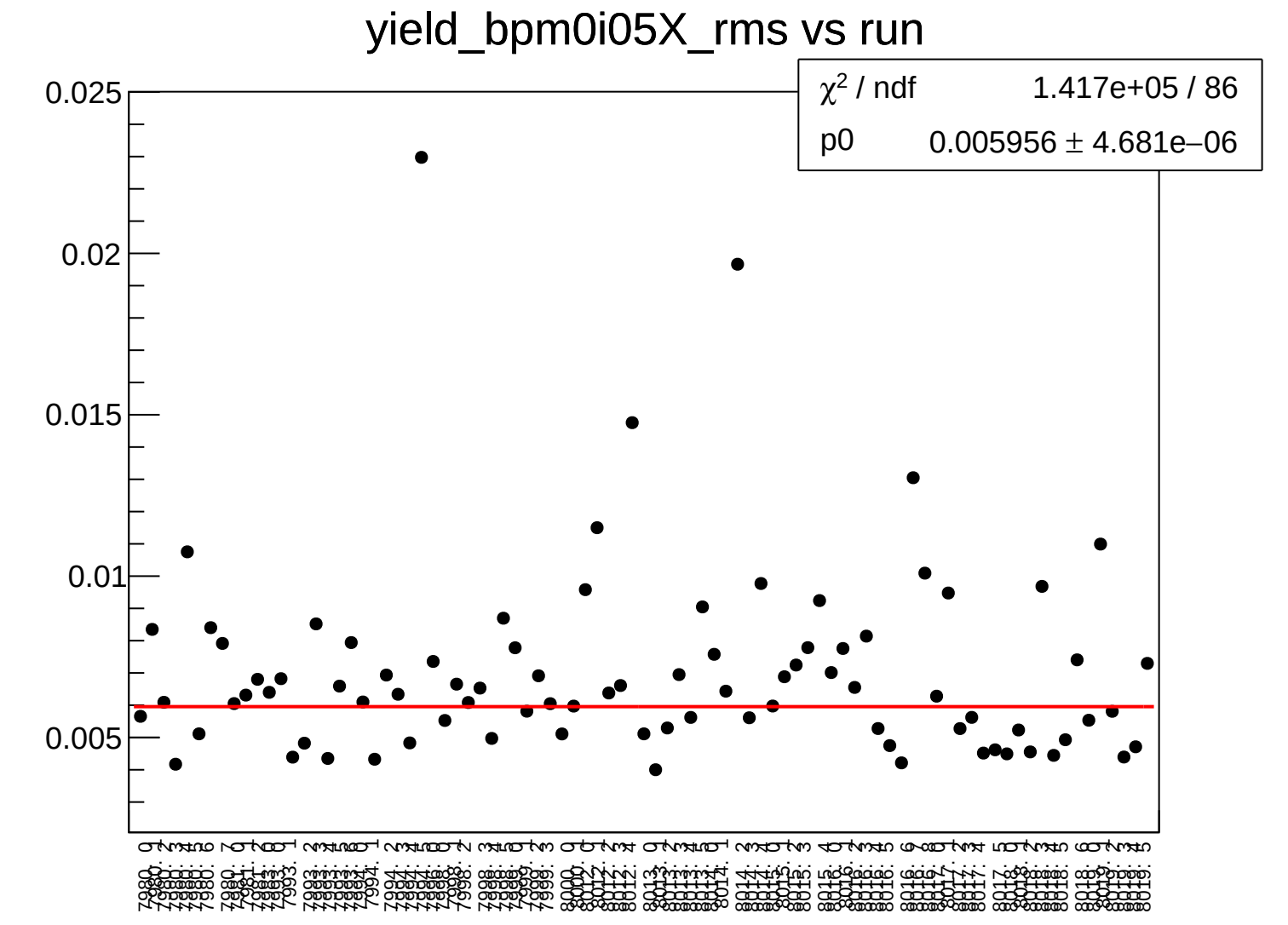

yield_bpm0i02aY_mean vs run
χ² / ndf 9.044e+05 / 86
p0 −0.8731 ± 1.407e−05
−0.84
−0.85
−0.86
−0.87
−0.88
−0.89
−0.9
pull
Entries 87
Mean 195.4
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

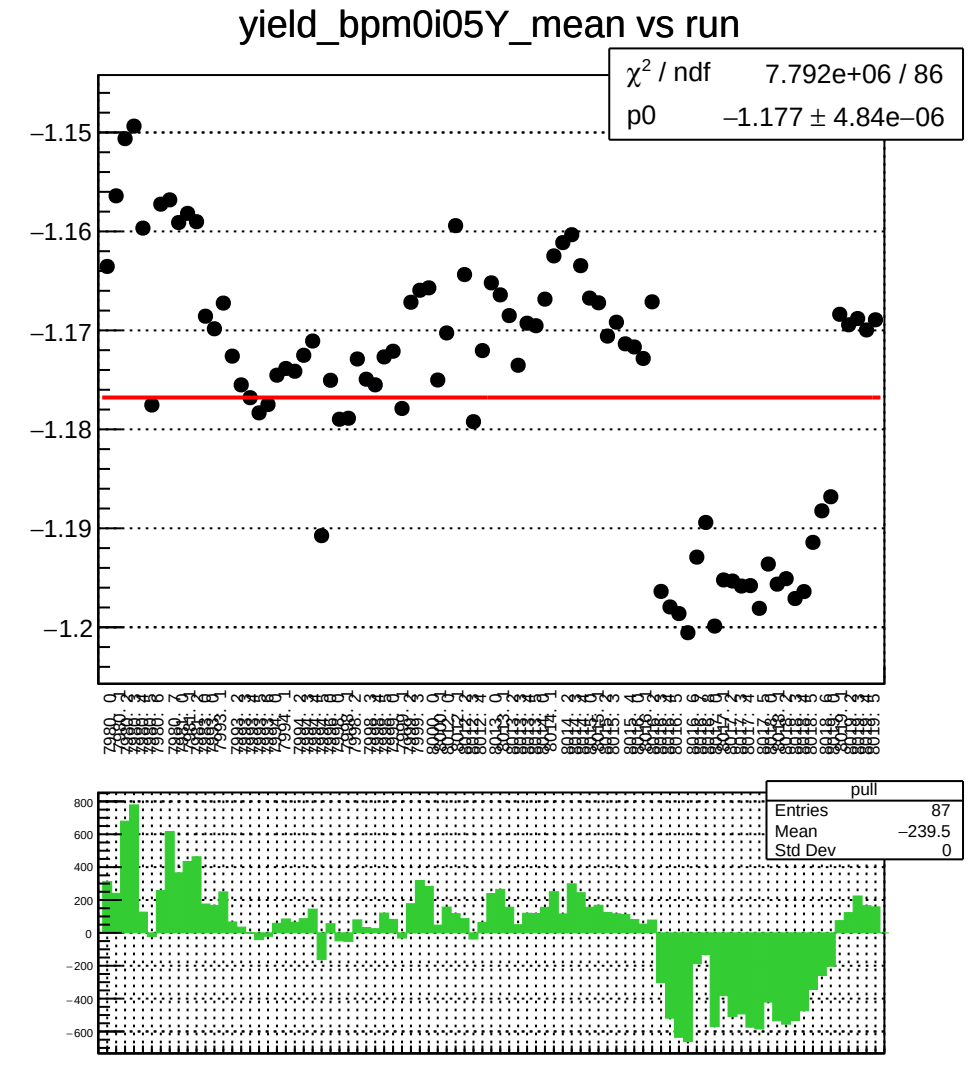

pull1D
Entries 87
Mean −1.488
Std Dev 4.076
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

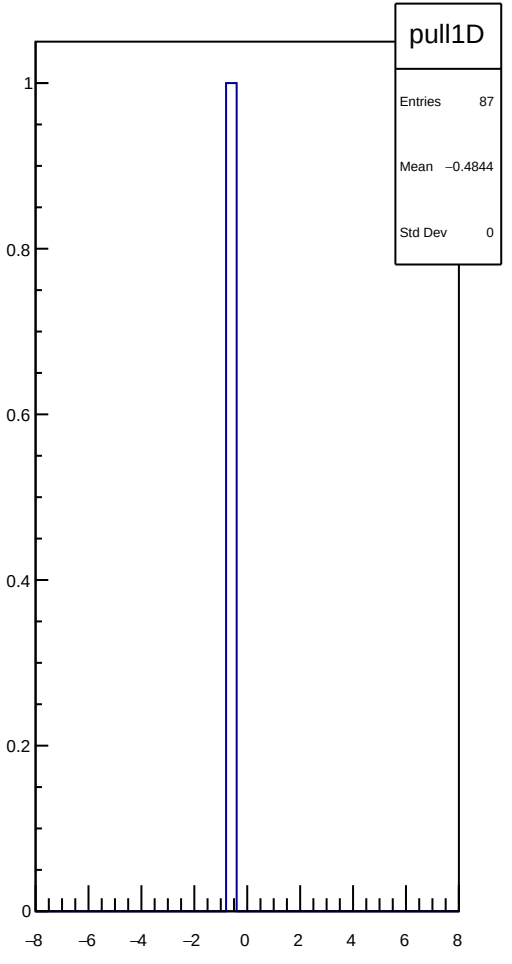

yield_bpm0i02aY_rms vs run
χ² / ndf 3.126e+04 / 86
p0 0.01308 ± 9.947e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

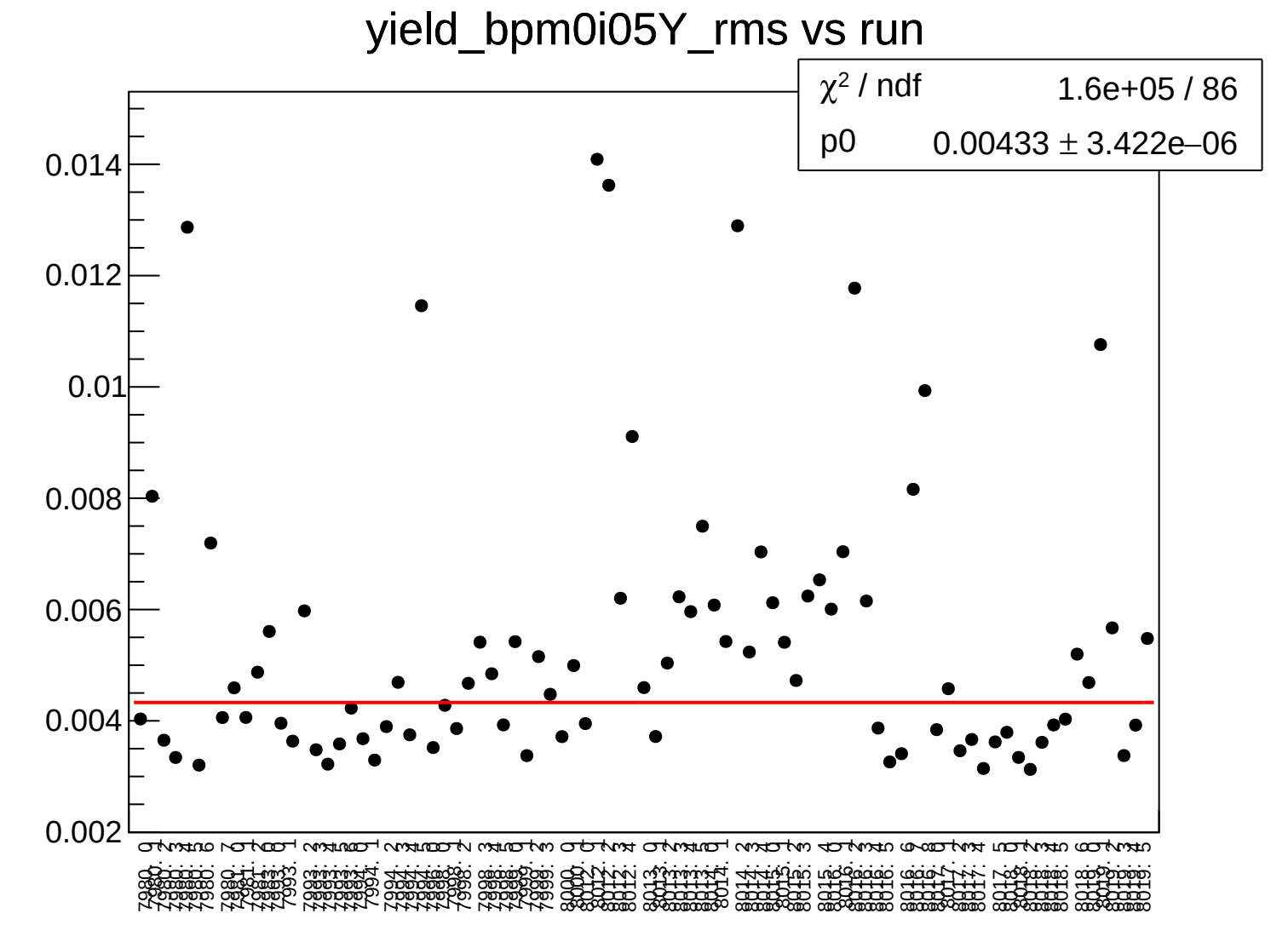

yield_bpm0i05X_mean vs run
χ² / ndf 5.938e+06 / 86
p0 −0.01733 ± 6.62e−06
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 87
Mean −419.6
Std Dev 0
800
600
400
200
0
−200
−400

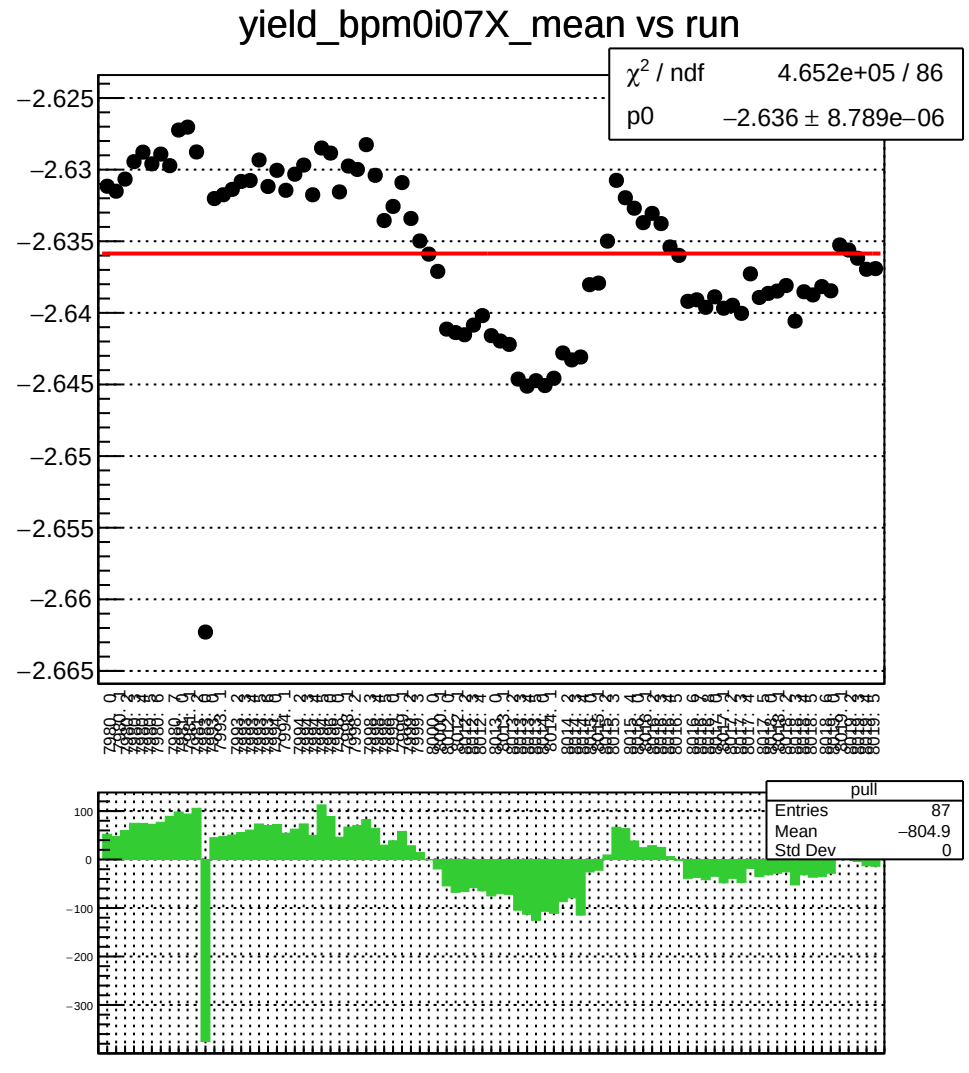

pull1D
Entries 87
Mean 3.149
Std Dev 4.687
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

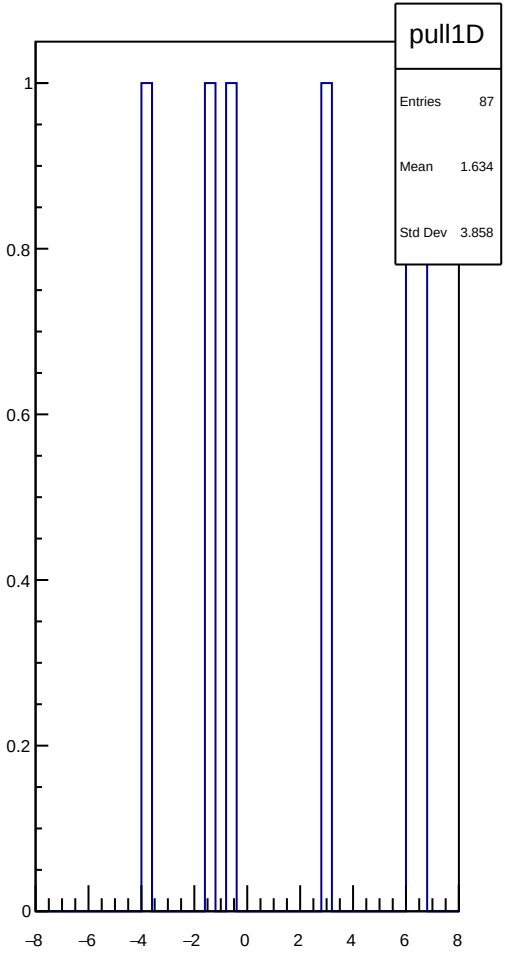

yield_bpm0i05X_rms vs run
χ² / ndf 1.417e+05 / 86
p0 0.005956 ± 4.681e−06
0.025
0.02
0.015
0.01
0.005

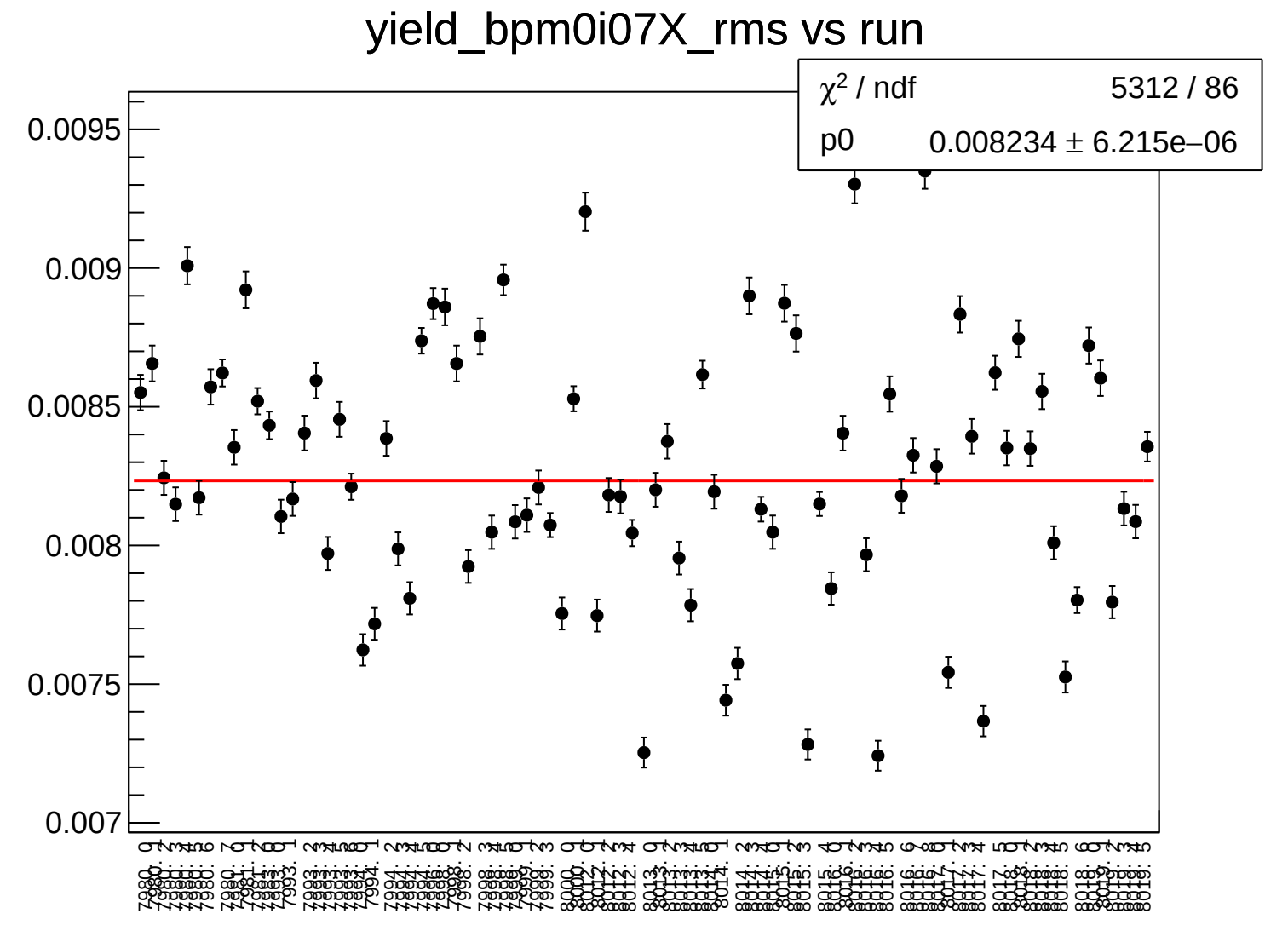

yield_bpm0i05Y_mean vs run
χ² / ndf 7.792e+06 / 86
p0 –1.177 ± 4.84e–06
–1.15
–1.16
–1.17
–1.18
–1.19
–1.2
pull
Entries 87
Mean –239.5
Std Dev 0
800
600
400
200
0
–200
–400
–600

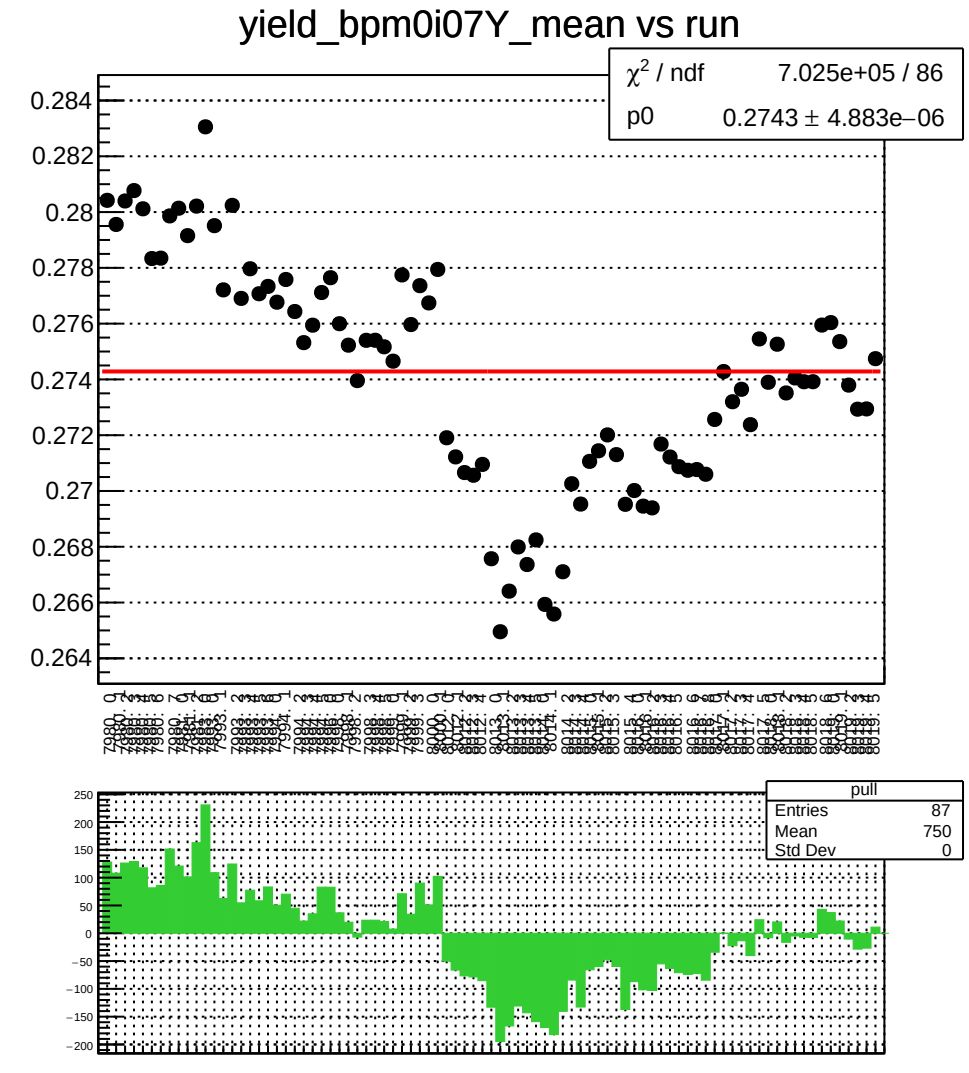

pull1D
Entries 87
Mean –0.4844
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

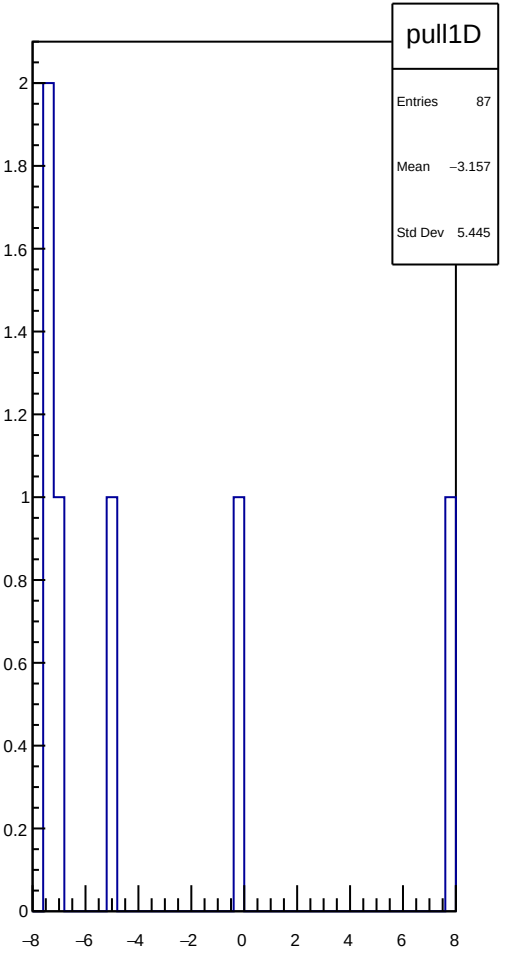

yield_bpm0i05Y_rms vs run
χ² / ndf 1.6e+05 / 86
p0 0.00433 ± 3.422e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

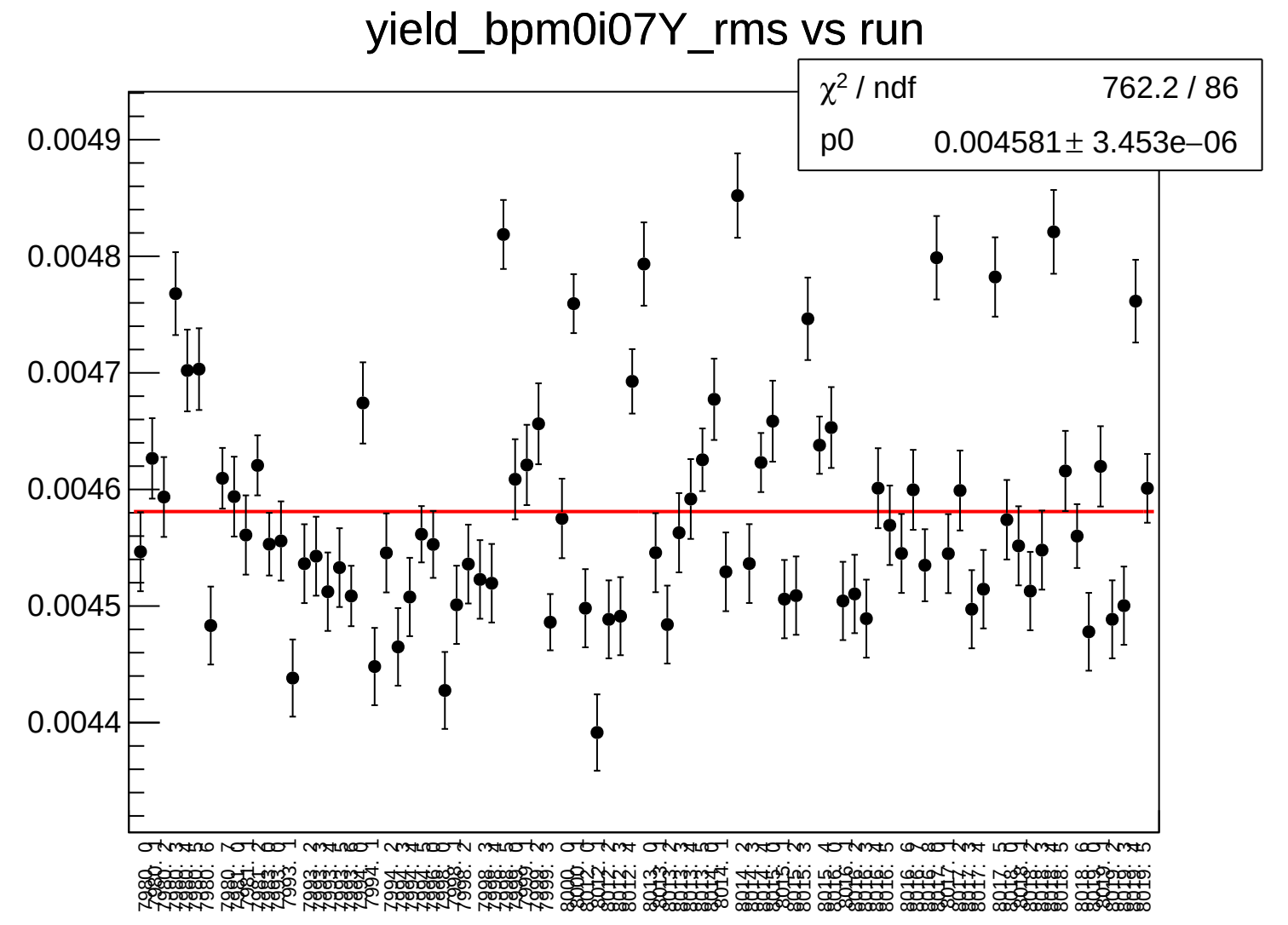

yield_bpm0i07X_mean vs run
χ² / ndf 4.652e+05 / 86
p0 −2.636 ± 8.789e−06
−2.625
−2.63
−2.635
−2.64
−2.645
−2.65
−2.655
−2.66
−2.665
pull
Entries 87
Mean −804.9
Std Dev 0
100
0
−100
−200
−300

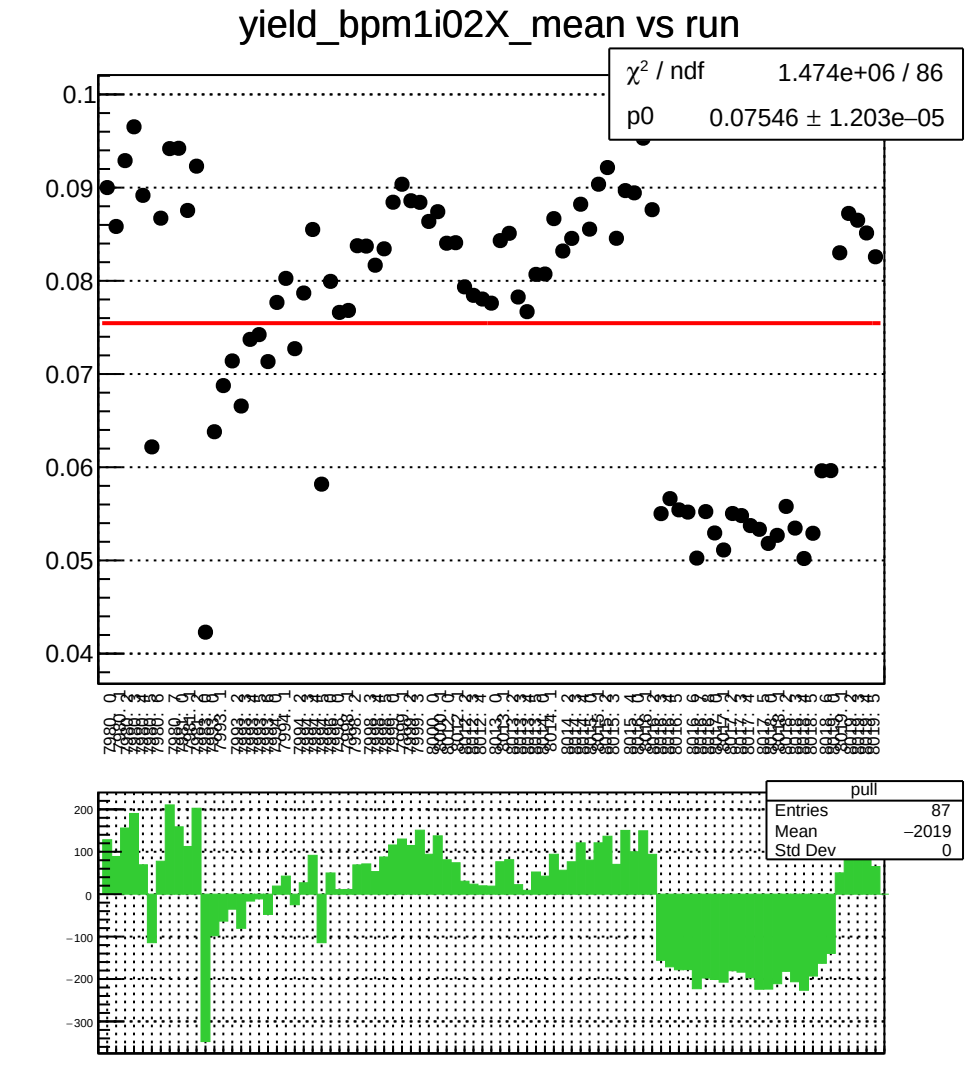

pull1D
Entries 87
Mean 1.634
Std Dev 3.858
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

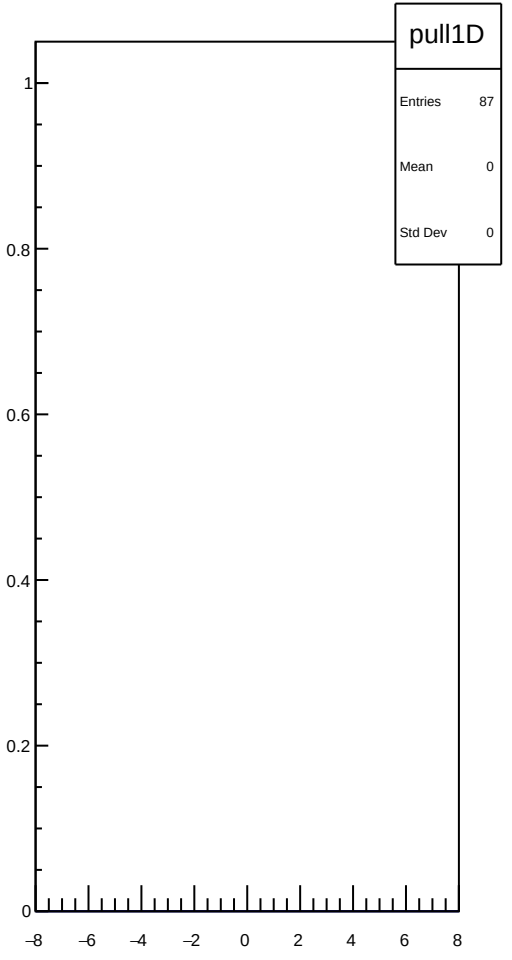

yield_bpm0i07X_rms vs run
χ² / ndf 5312 / 86
p0 0.008234 ± 6.215e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007

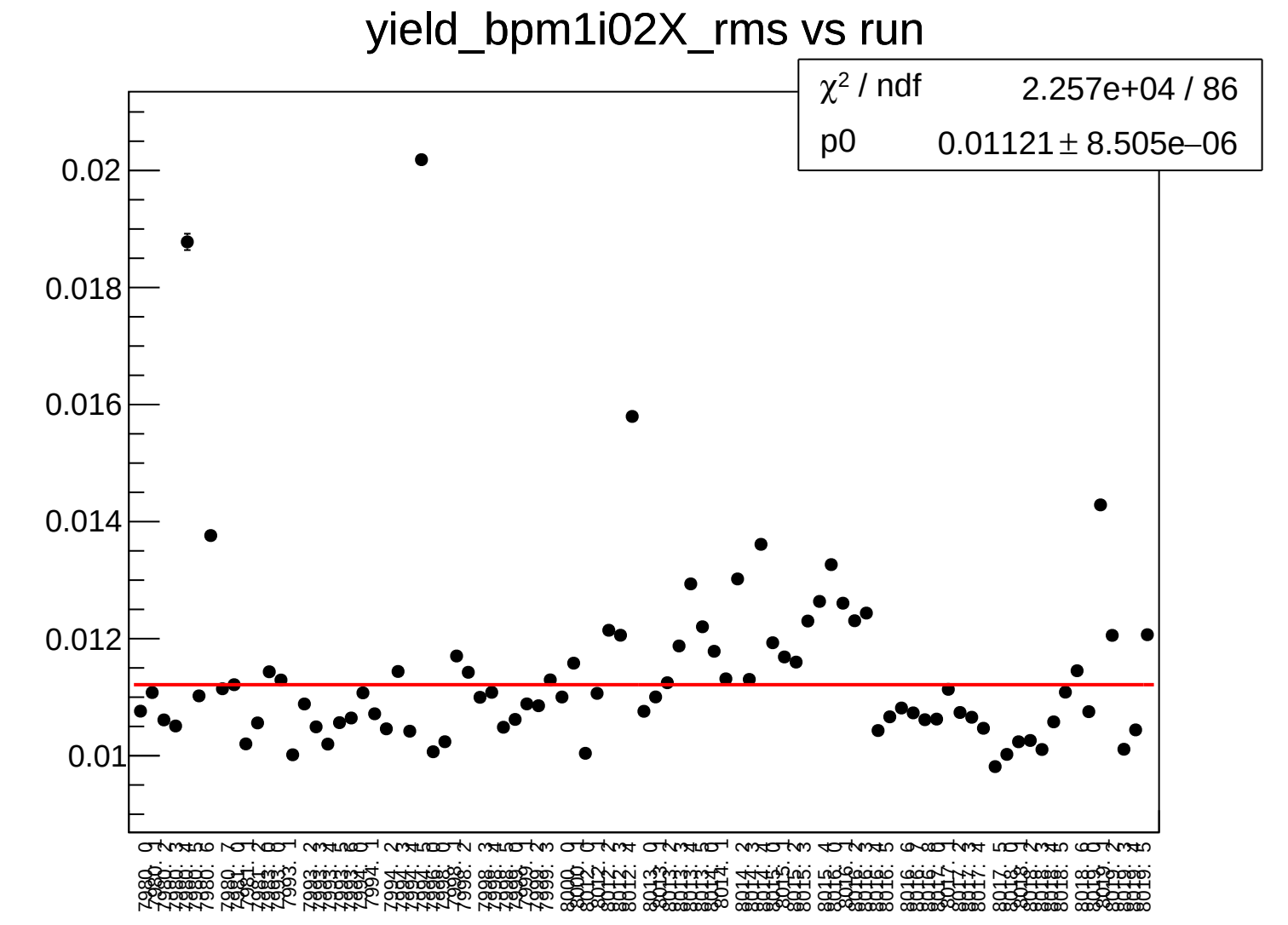

yield_bpm0i07Y_mean vs run
χ² / ndf 7.025e+05 / 86
p0 0.2743 ± 4.883e−06
0.284
0.282
0.28
0.278
0.276
0.274
0.272
0.27
0.268
0.266
0.264
pull
Entries 87
Mean 750
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

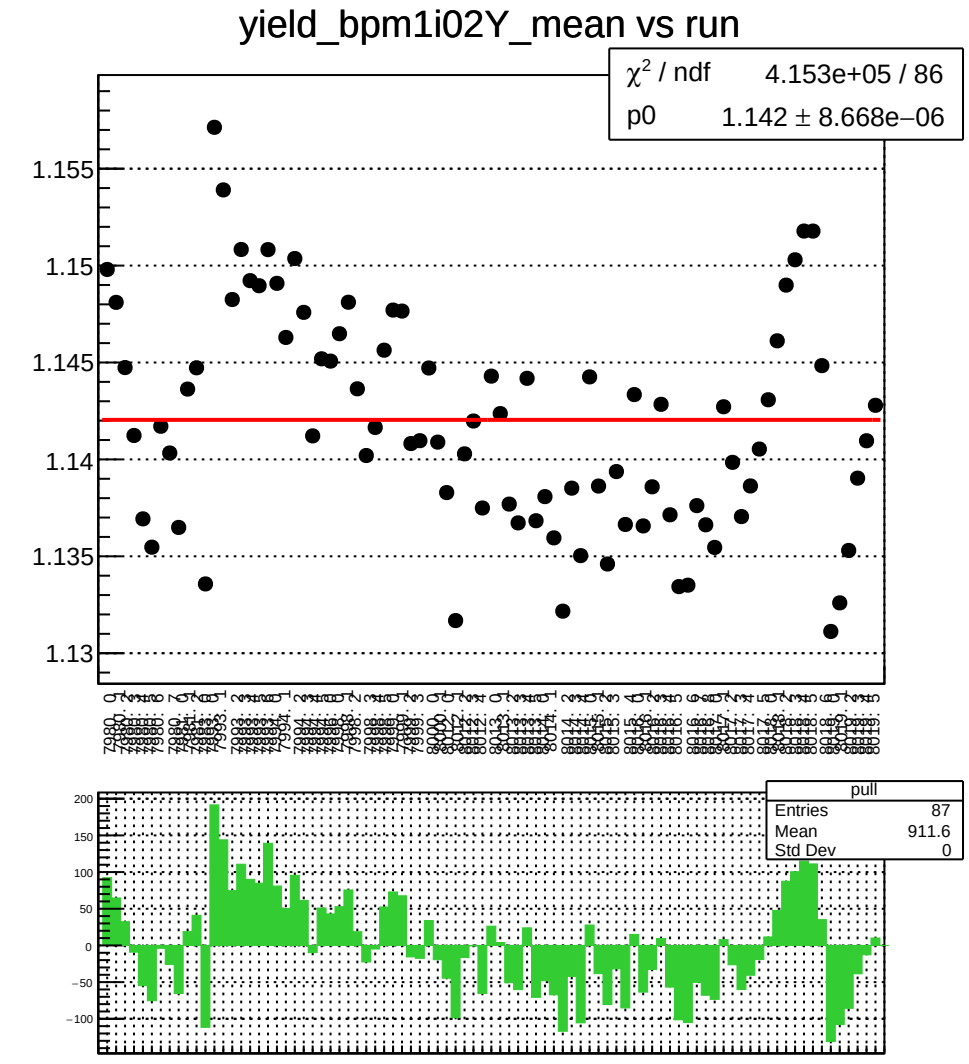

pull1D
Entries 87
Mean −3.157
Std Dev 5.445
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

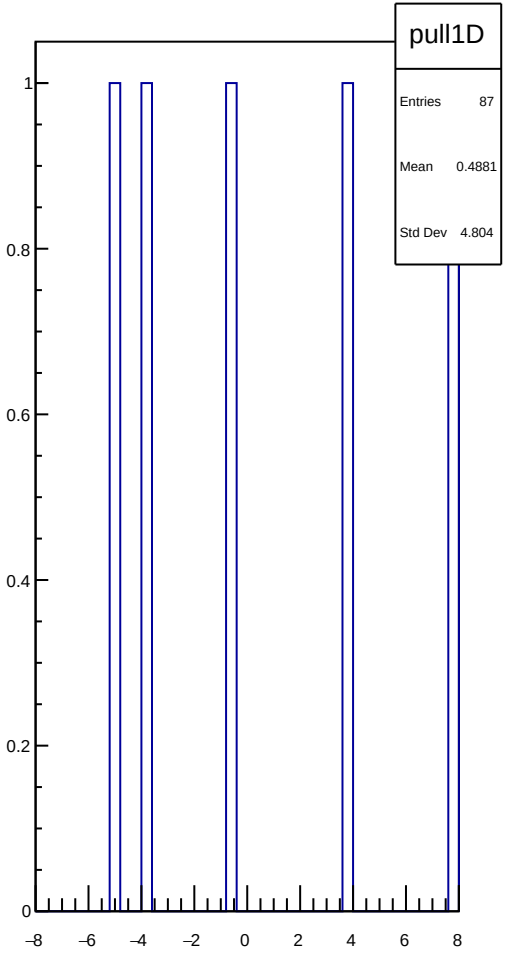

yield_bpm0i07Y_rms vs run
χ² / ndf 762.2 / 86
p0 0.004581 ± 3.453e−06
0.0049
0.0048
0.0047
0.0046
0.0045
0.0044

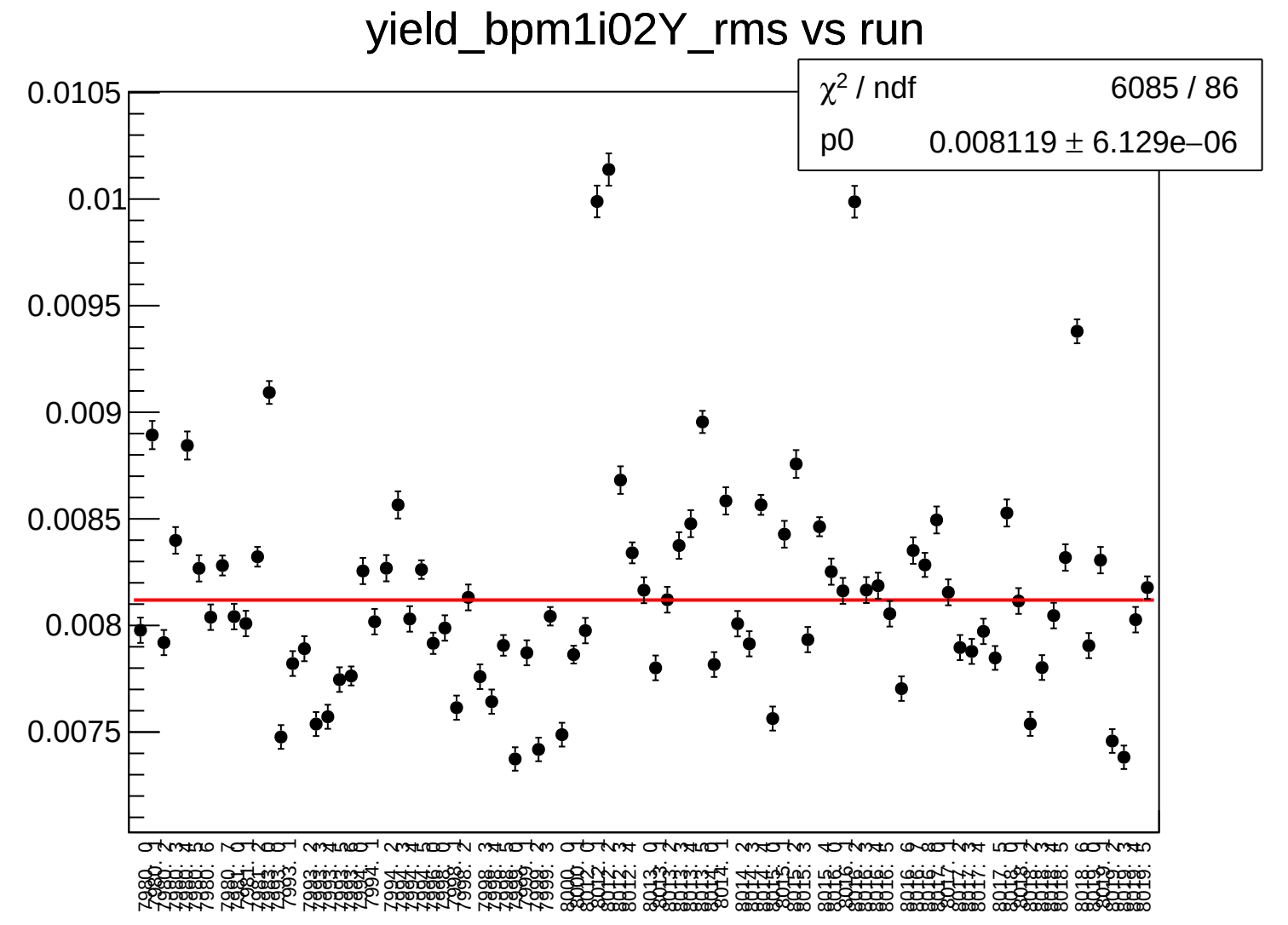

yield_bpm1i02X_mean vs run
χ² / ndf 1.474e+06 / 86
p0 0.07546 ± 1.203e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
pull
Entries 87
Mean −2019
Std Dev 0
200
100
0
−100
−200
−300

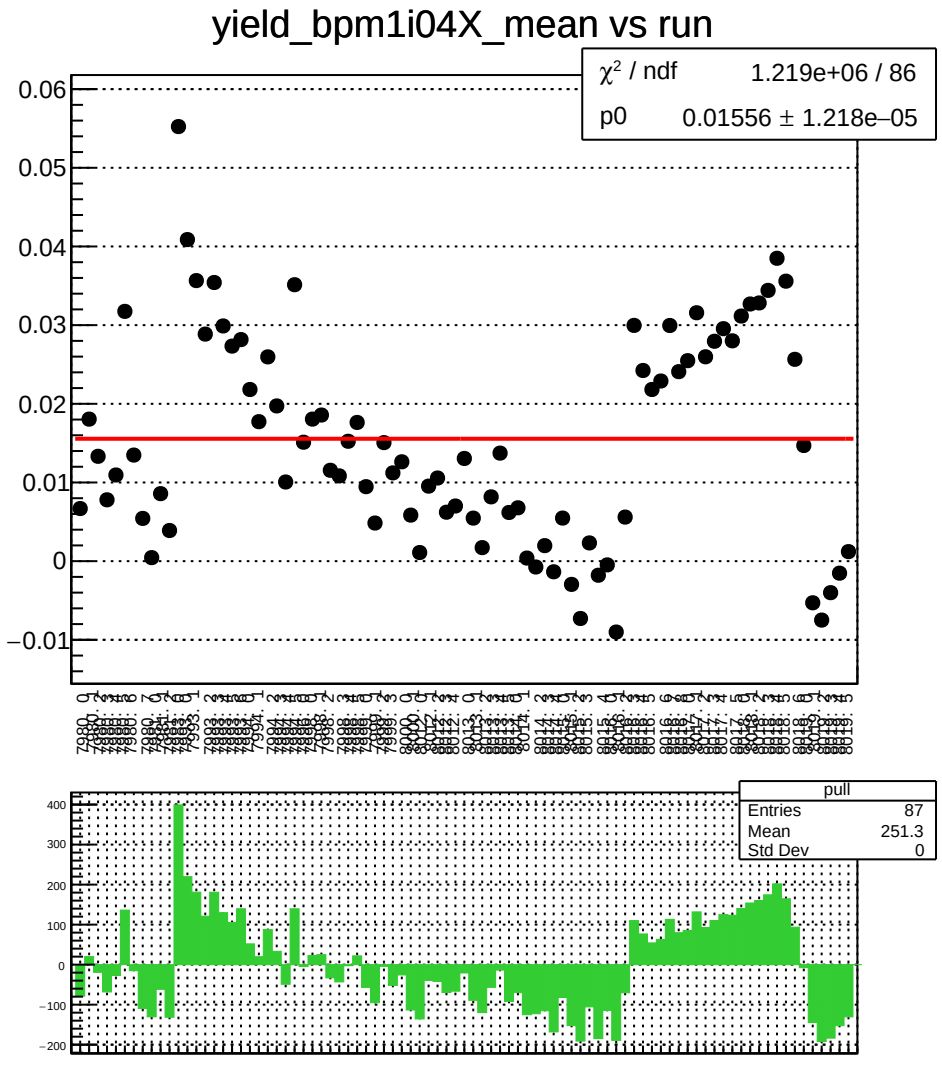

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

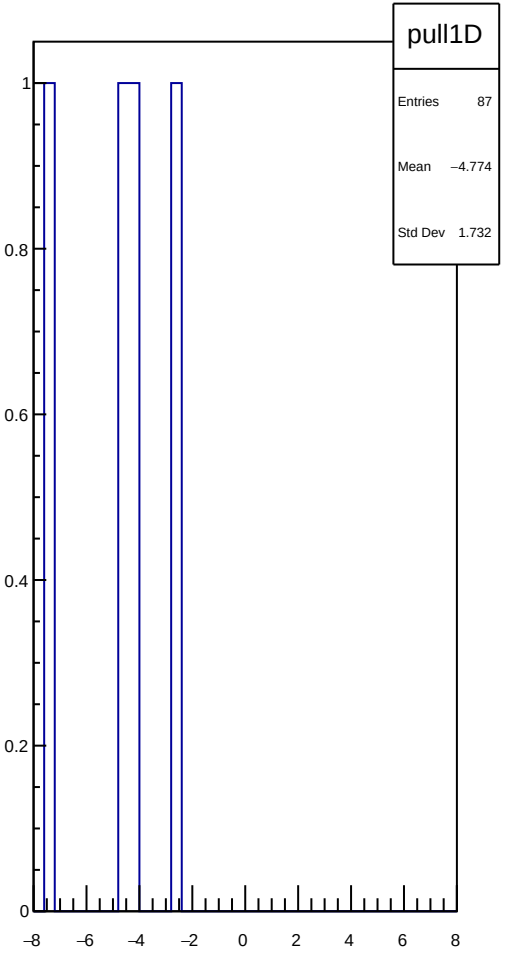

yield_bpm1i02X_rms vs run
χ² / ndf 2.257e+04 / 86
p0 0.01121 ± 8.505e–06
0.02
0.018
0.016
0.014
0.012
0.01

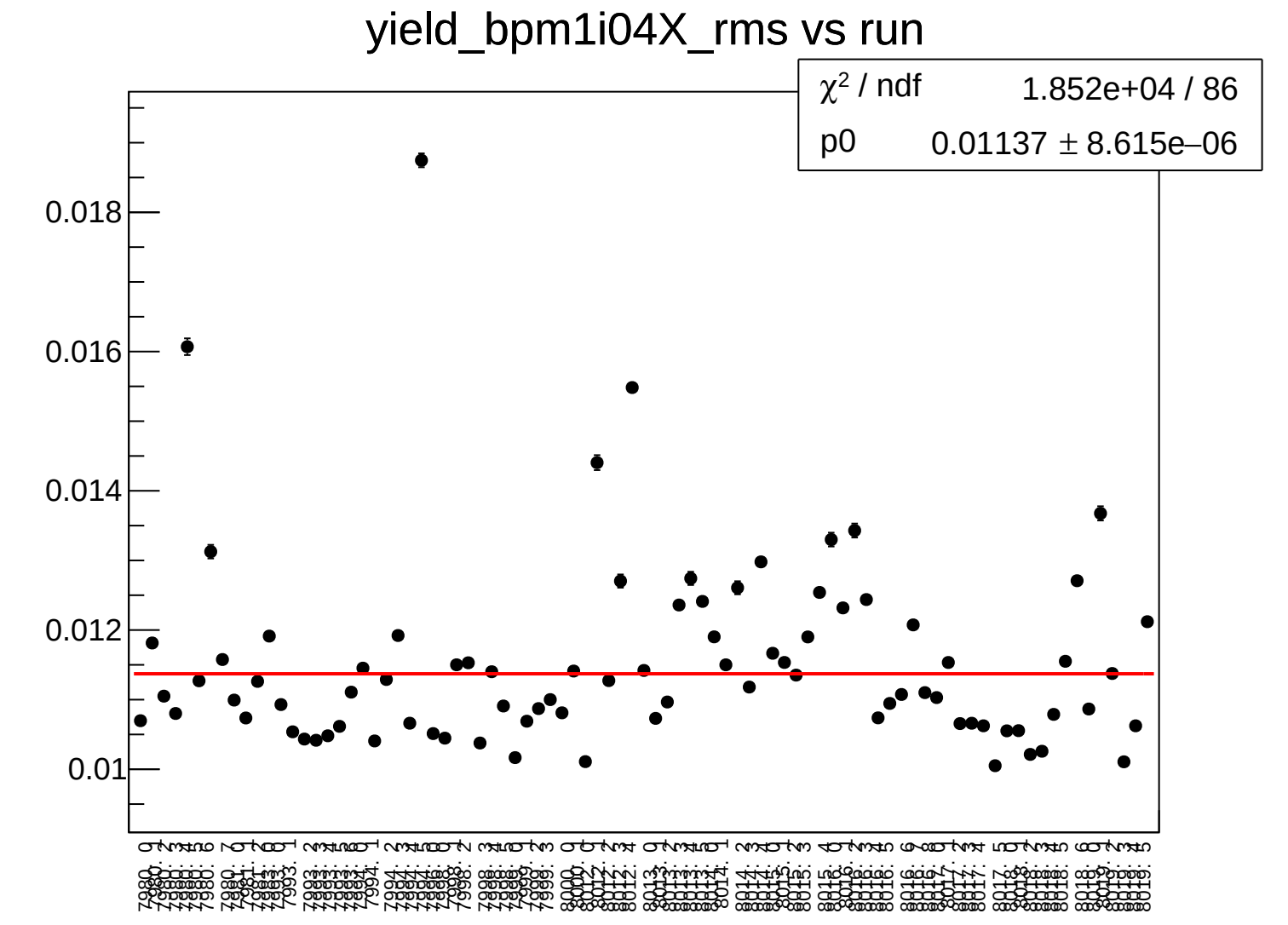

yield_bpm1i02Y_mean vs run
χ² / ndf 4.153e+05 / 86
p0 1.142 ± 8.668e−06
1.155
1.15
1.145
1.14
1.135
1.13
pull
Entries 87
Mean 911.6
Std Dev 0
200
150
100
50
0
−50
−100

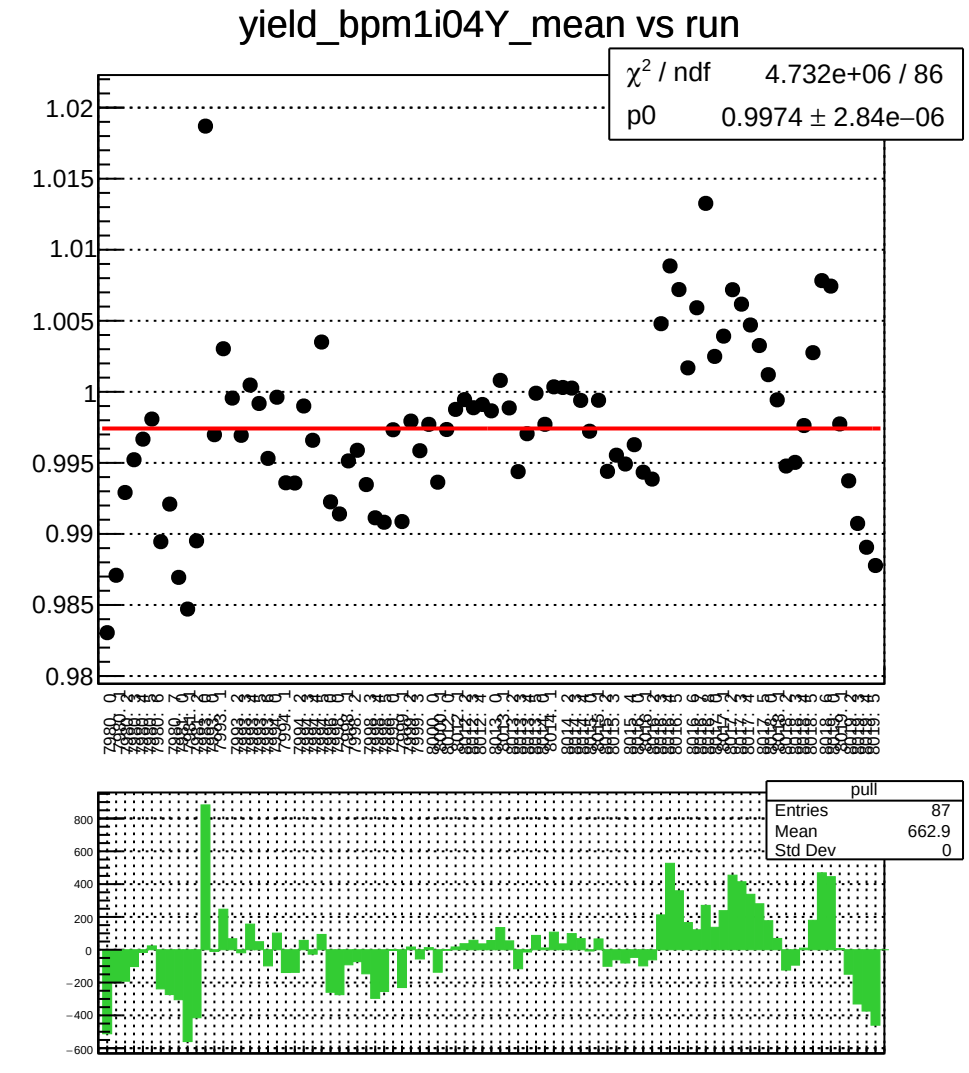

pull1D
Entries 87
Mean 0.4881
Std Dev 4.804
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

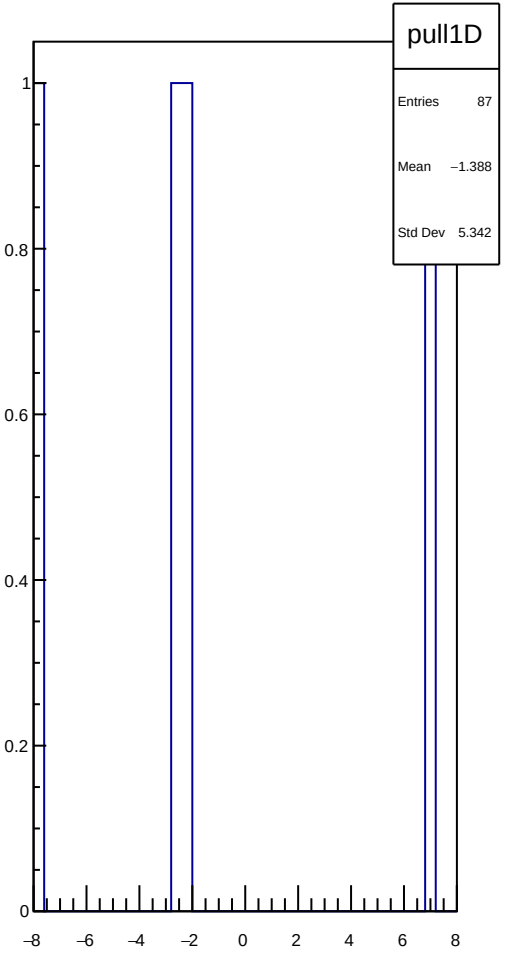

yield_bpm1i02Y_rms vs run
χ² / ndf 6085 / 86
p0 0.008119 ± 6.129e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

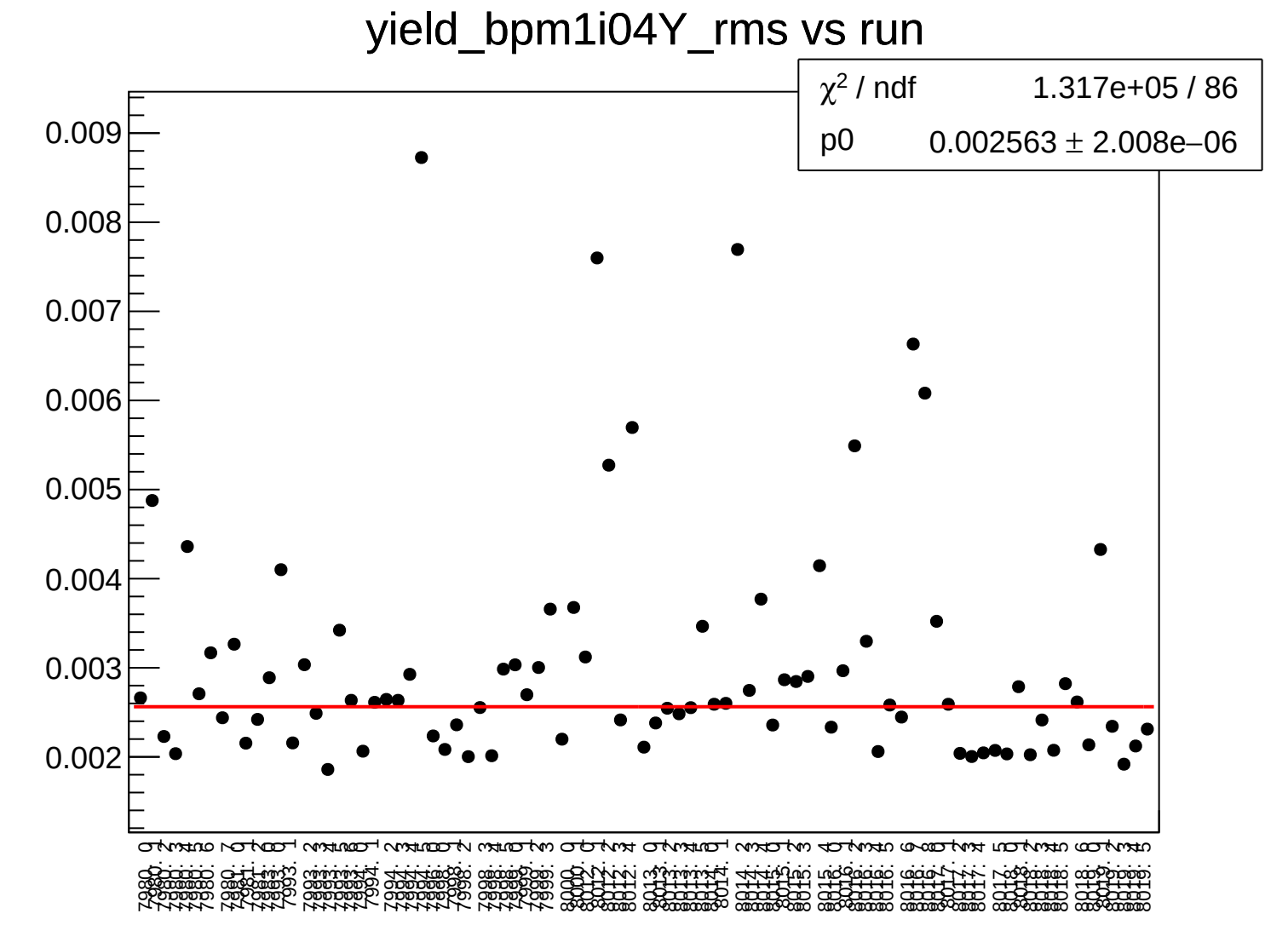

yield_bpm1i04X_mean vs run
χ² / ndf 1.219e+06 / 86
p0 0.01556 ± 1.218e−05
0.06
0.05
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 87
Mean 251.3
Std Dev 0
400
300
200
100
0
−100
−200

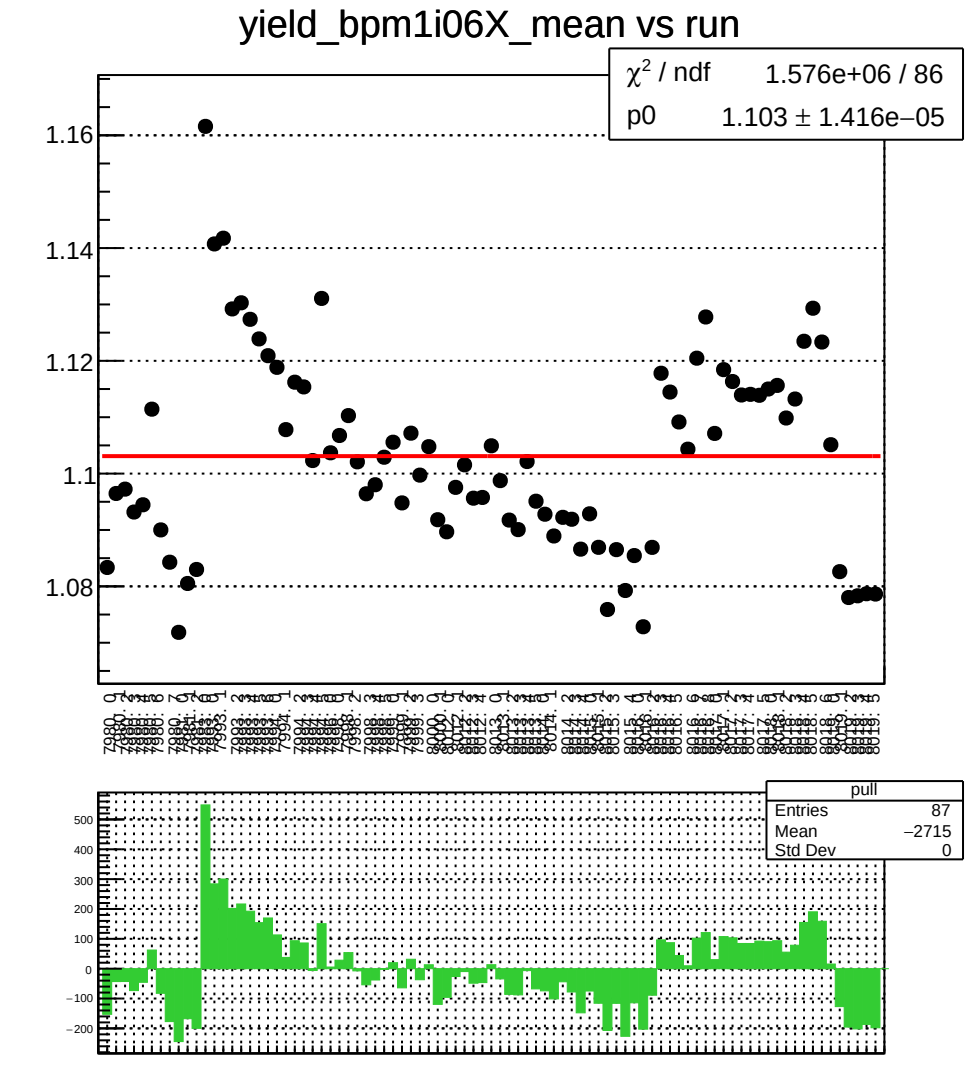

pull1D
Entries 87
Mean −4.774
Std Dev 1.732
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

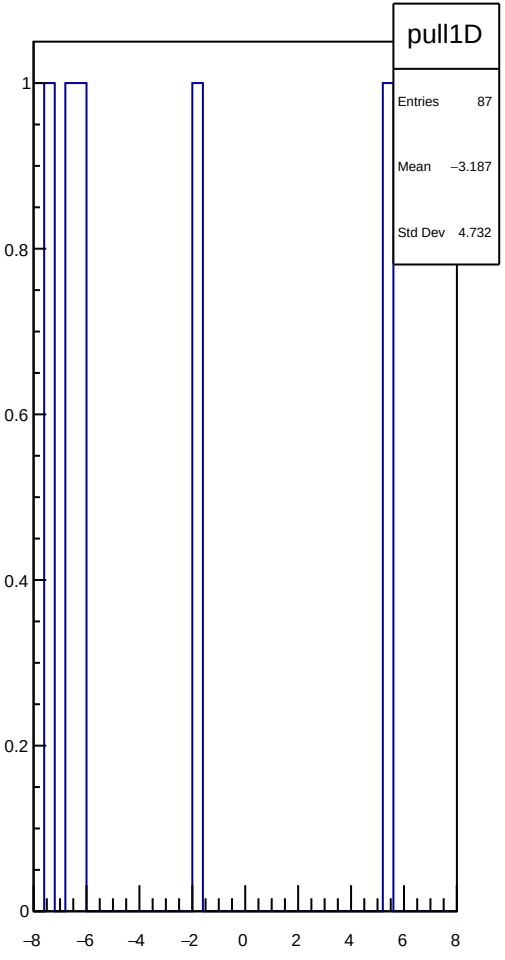

yield_bpm1i04X_rms vs run
χ² / ndf 1.852e+04 / 86
p0 0.01137 ± 8.615e–06
0.018
0.016
0.014
0.012
0.01

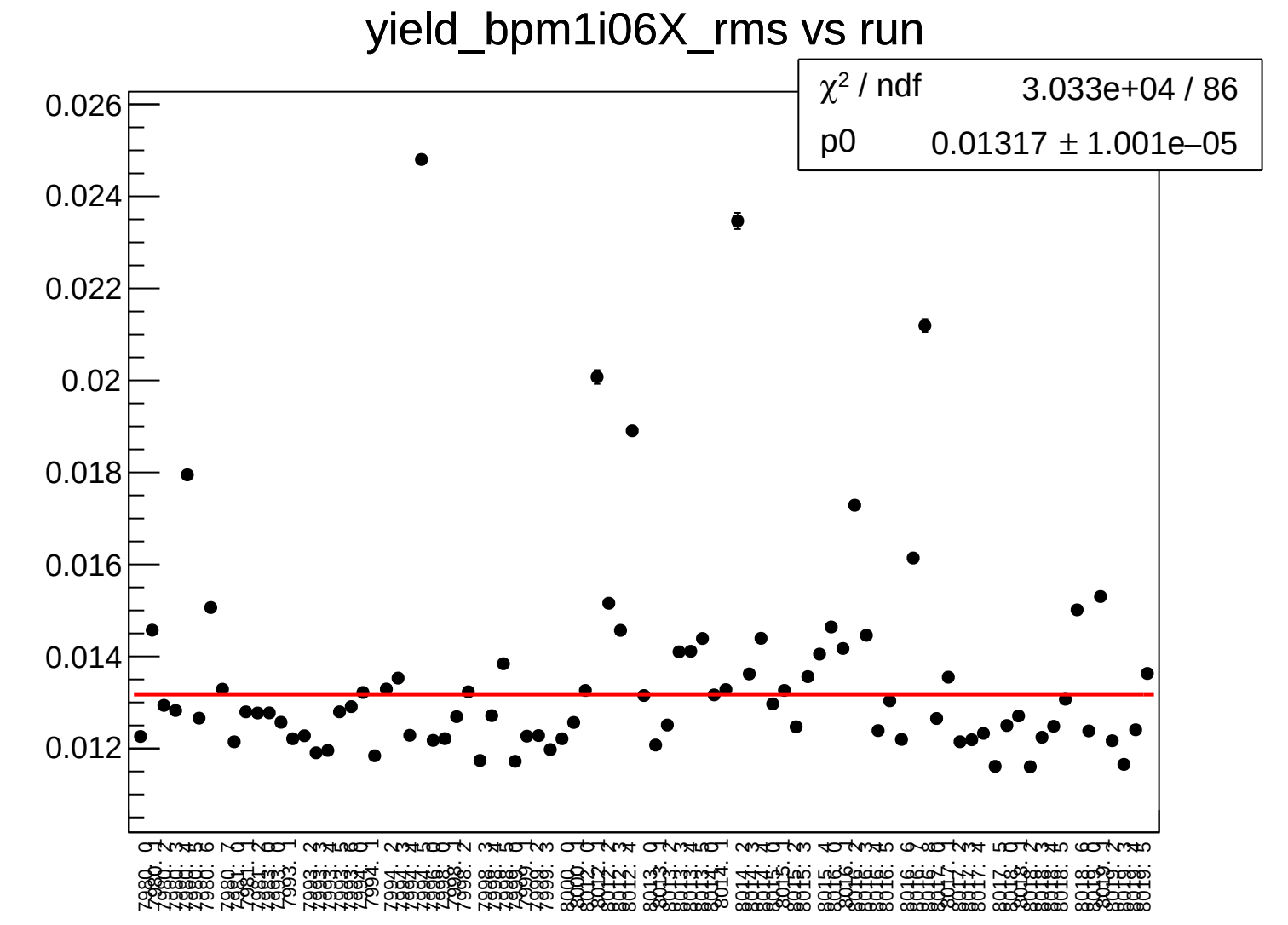

yield_bpm1i04Y_mean vs run
χ² / ndf 4.732e+06 / 86
p0 0.9974 ± 2.84e−06
1.02
1.015
1.01
1.005
1
0.995
0.99
0.985
0.98
pull
Entries 87
Mean 662.9
Std Dev 0
800
600
400
200
0
−200
−400
−600

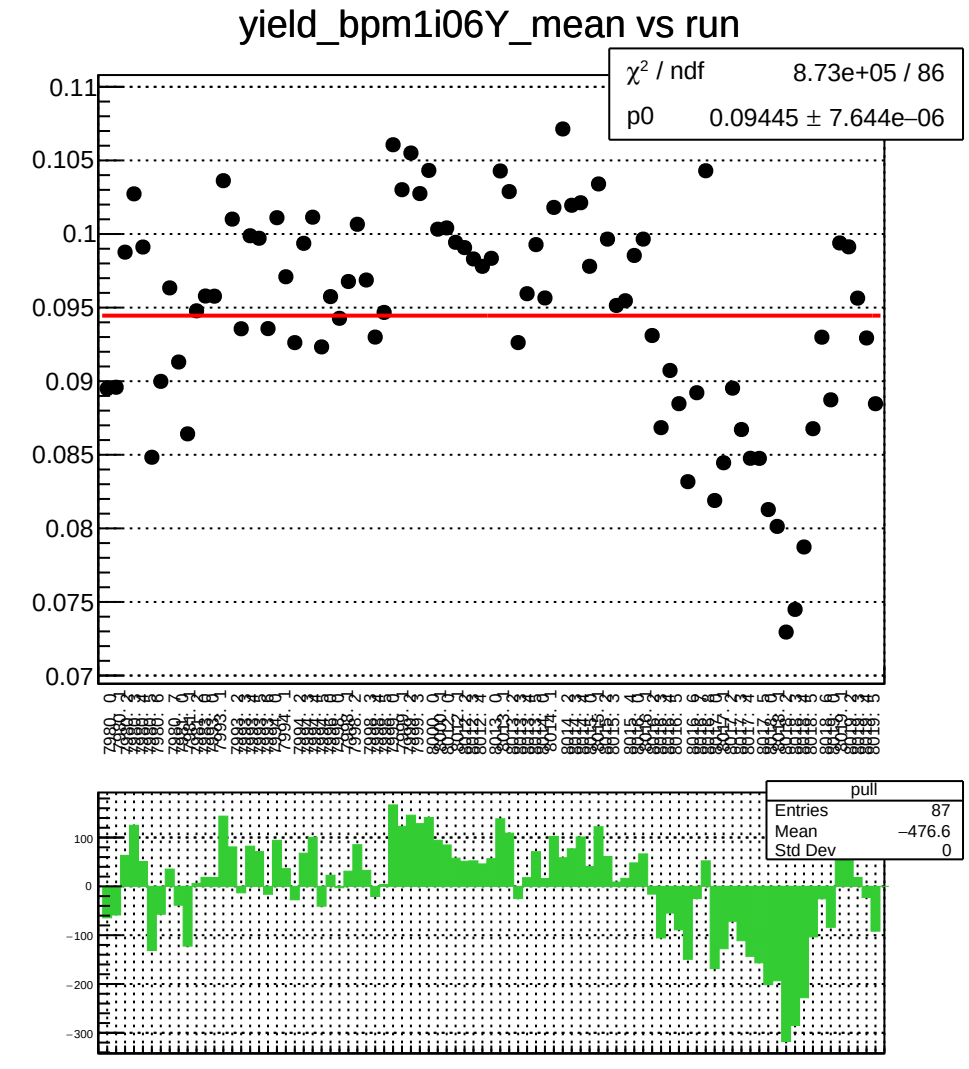

pull1D
Entries 87
Mean −1.388
Std Dev 5.342
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

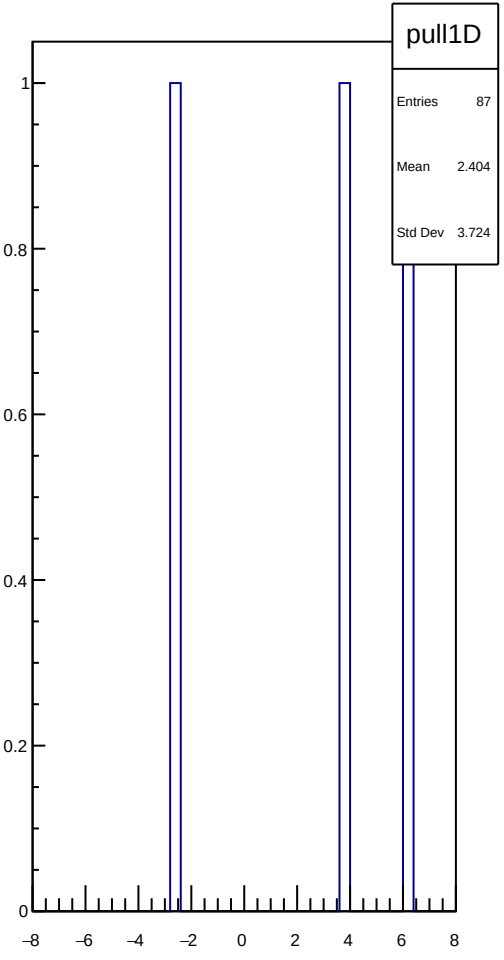

yield_bpm1i04Y_rms vs run
χ² / ndf 1.317e+05 / 86
p0 0.002563 ± 2.008e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

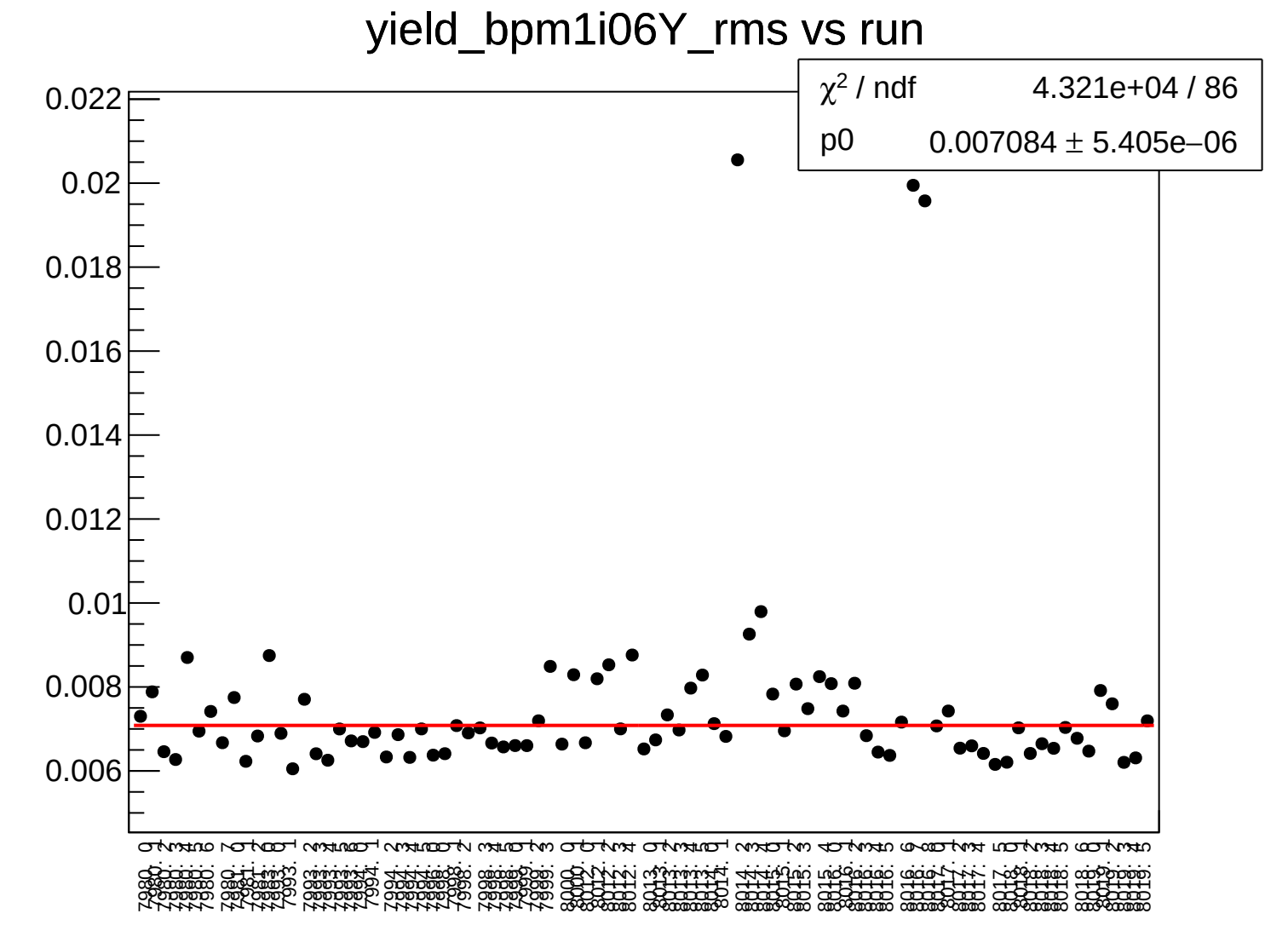

yield_bpm1i06X_mean vs run
χ² / ndf 1.576e+06 / 86
p0 1.103 ± 1.416e−05
1.16
1.14
1.12
1.1
1.08
pull
Entries 87
Mean −2715
Std Dev 0
500
400
300
200
100
0
−100
−200

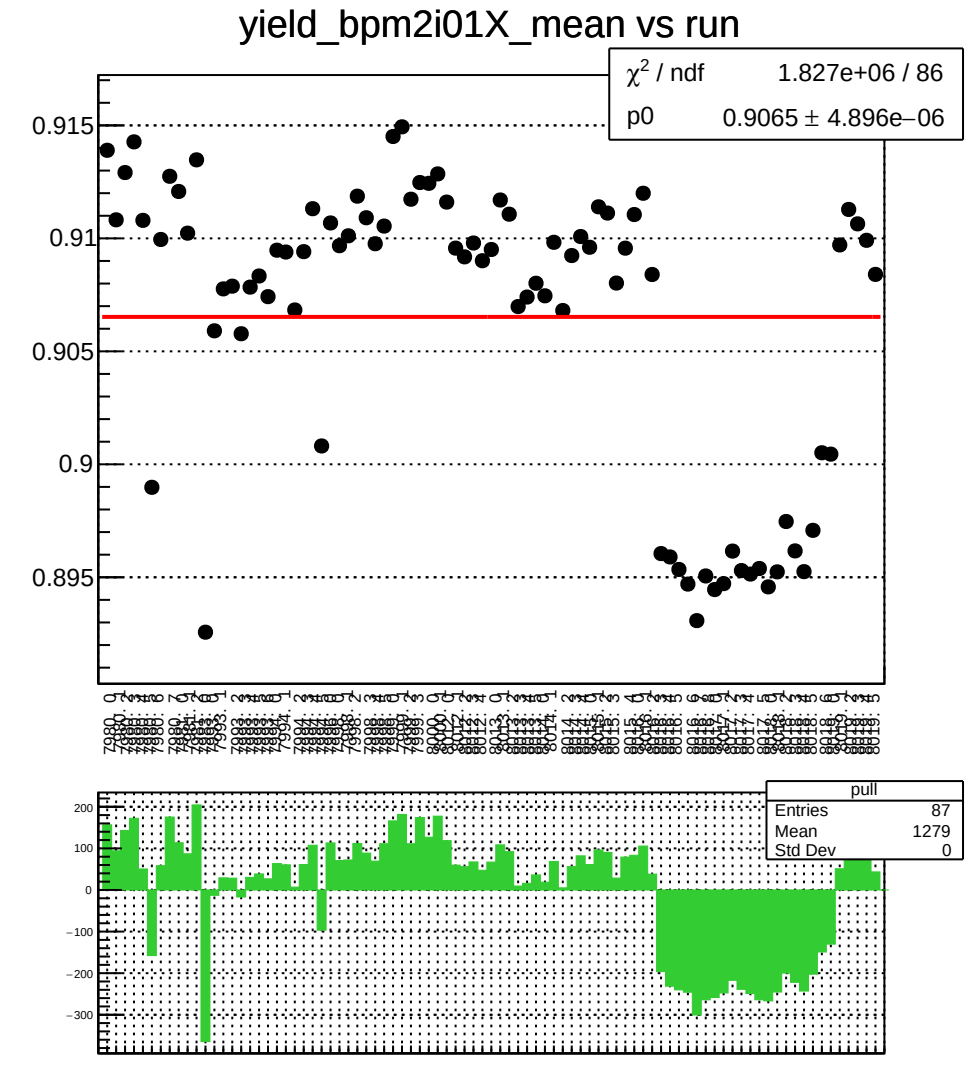

pull1D
Entries 87
Mean −3.187
Std Dev 4.732
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

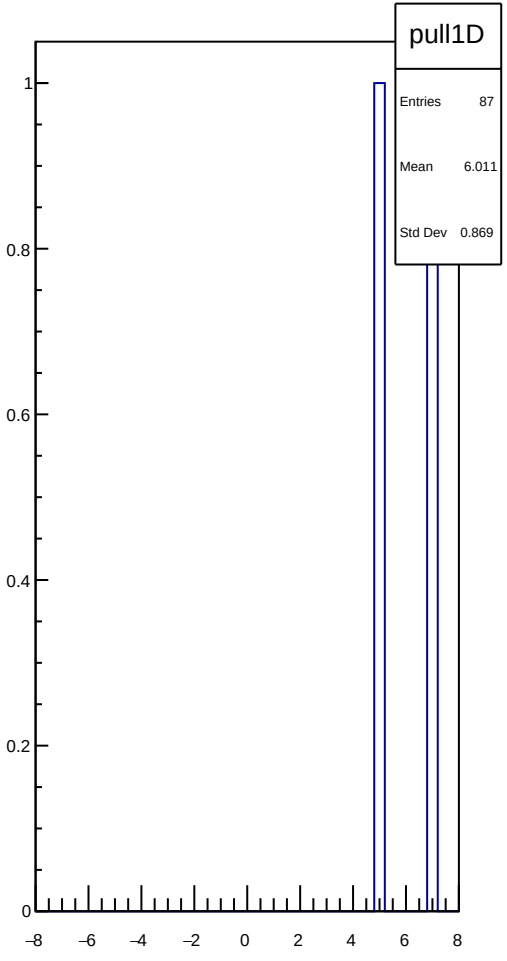

yield_bpm1i06X_rms vs run
χ² / ndf 3.033e+04 / 86
p0 0.01317 ± 1.001e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

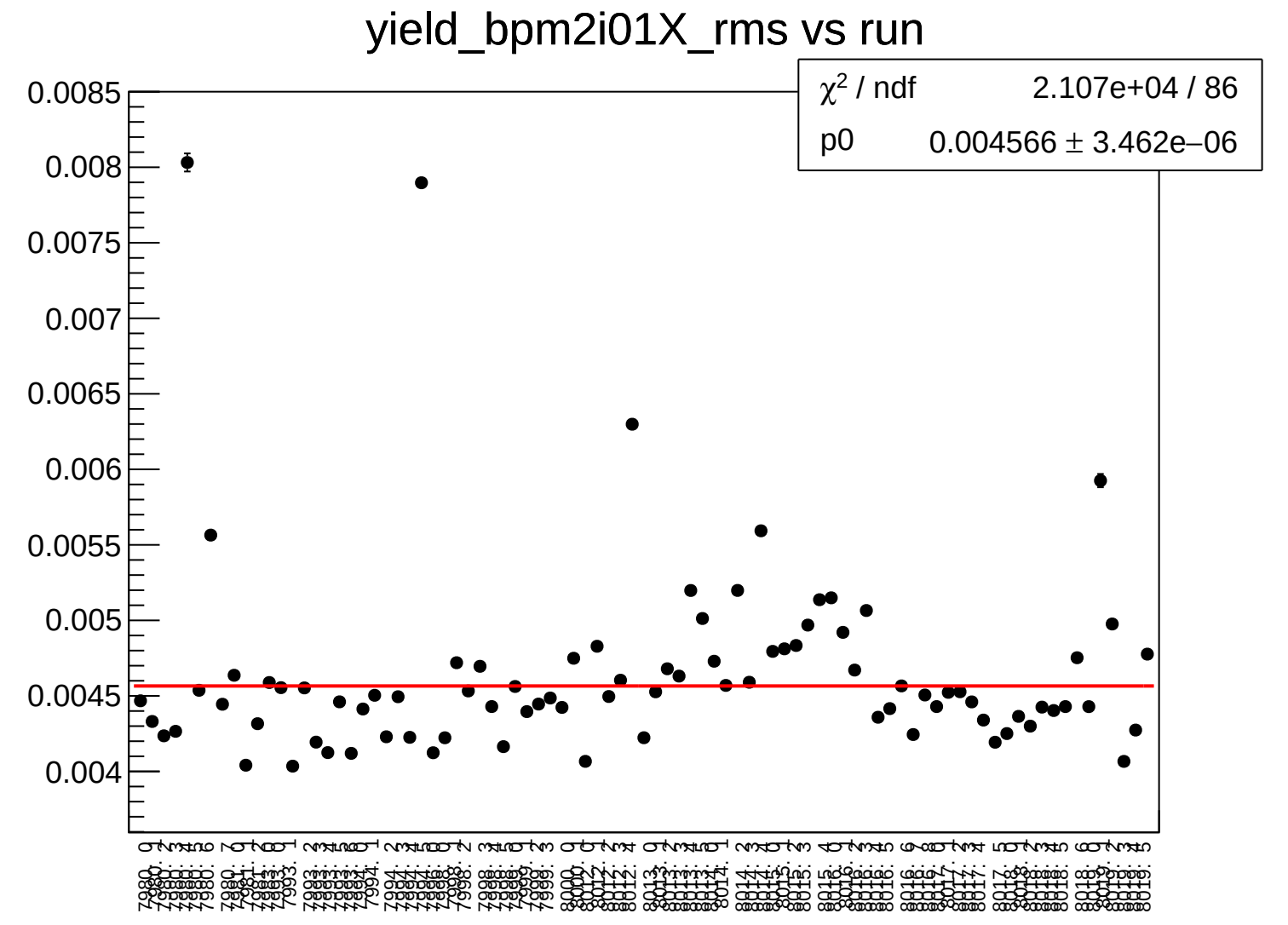

yield_bpm1i06Y_mean vs run
χ² / ndf 8.73e+05 / 86
p0 0.09445 ± 7.644e−06
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07
pull
Entries 87
Mean −476.6
Std Dev 0
100
0
−100
−200
−300

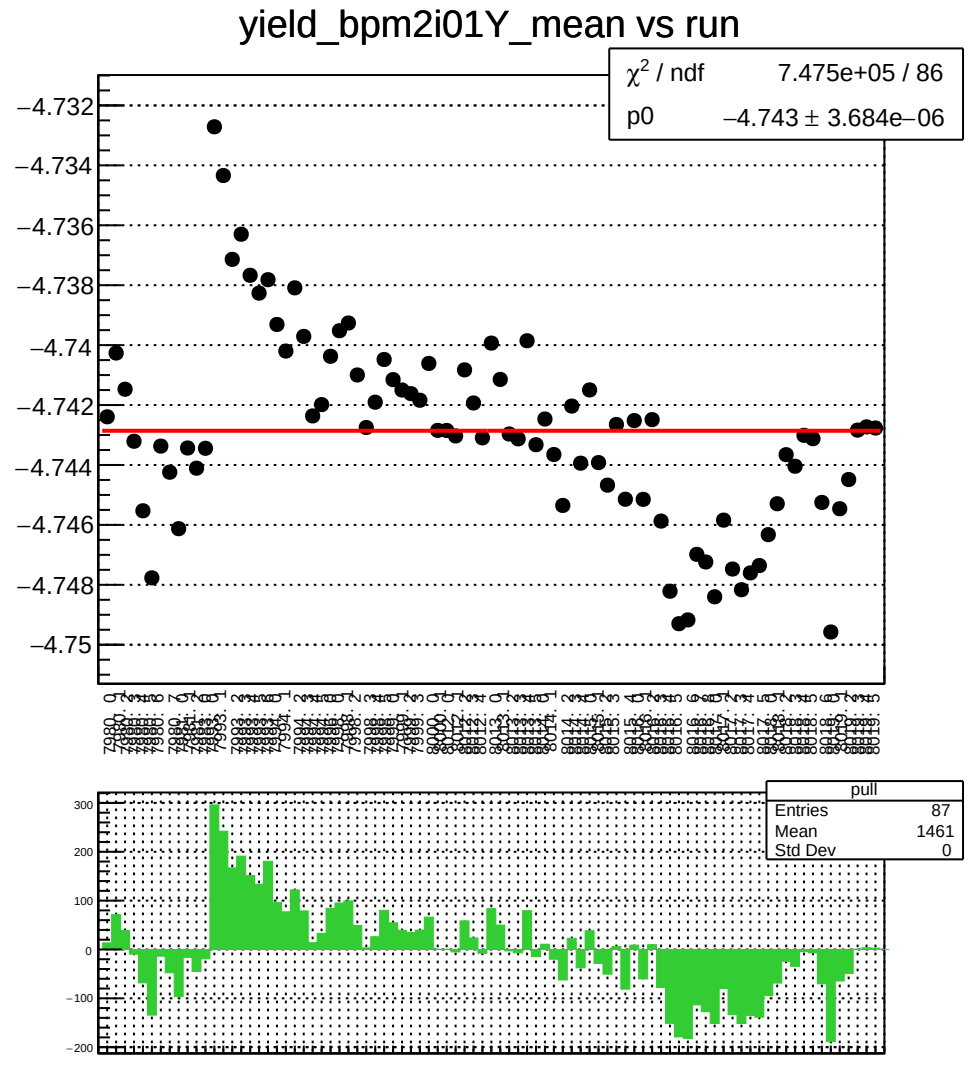

pull1D
Entries 87
Mean 2.404
Std Dev 3.724
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

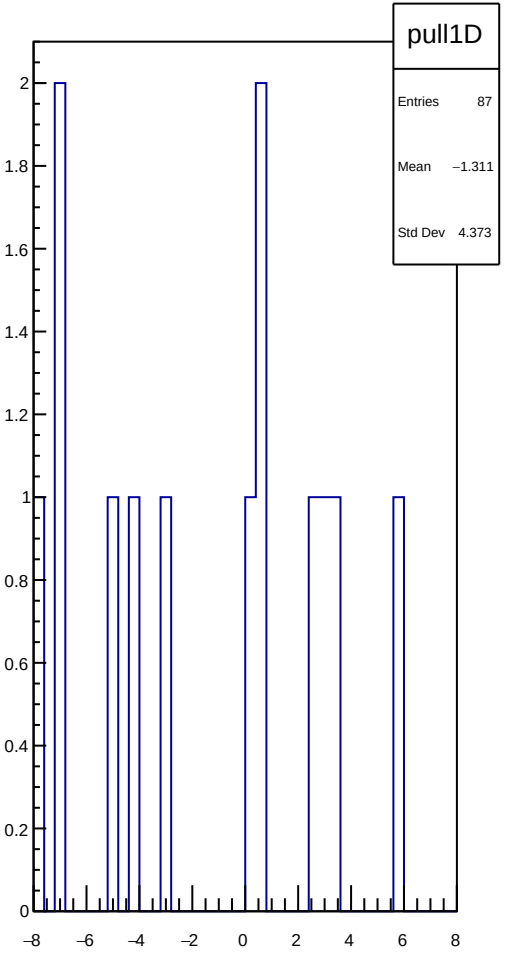

yield_bpm1i06Y_rms vs run
χ² / ndf 4.321e+04 / 86
p0 0.007084 ± 5.405e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

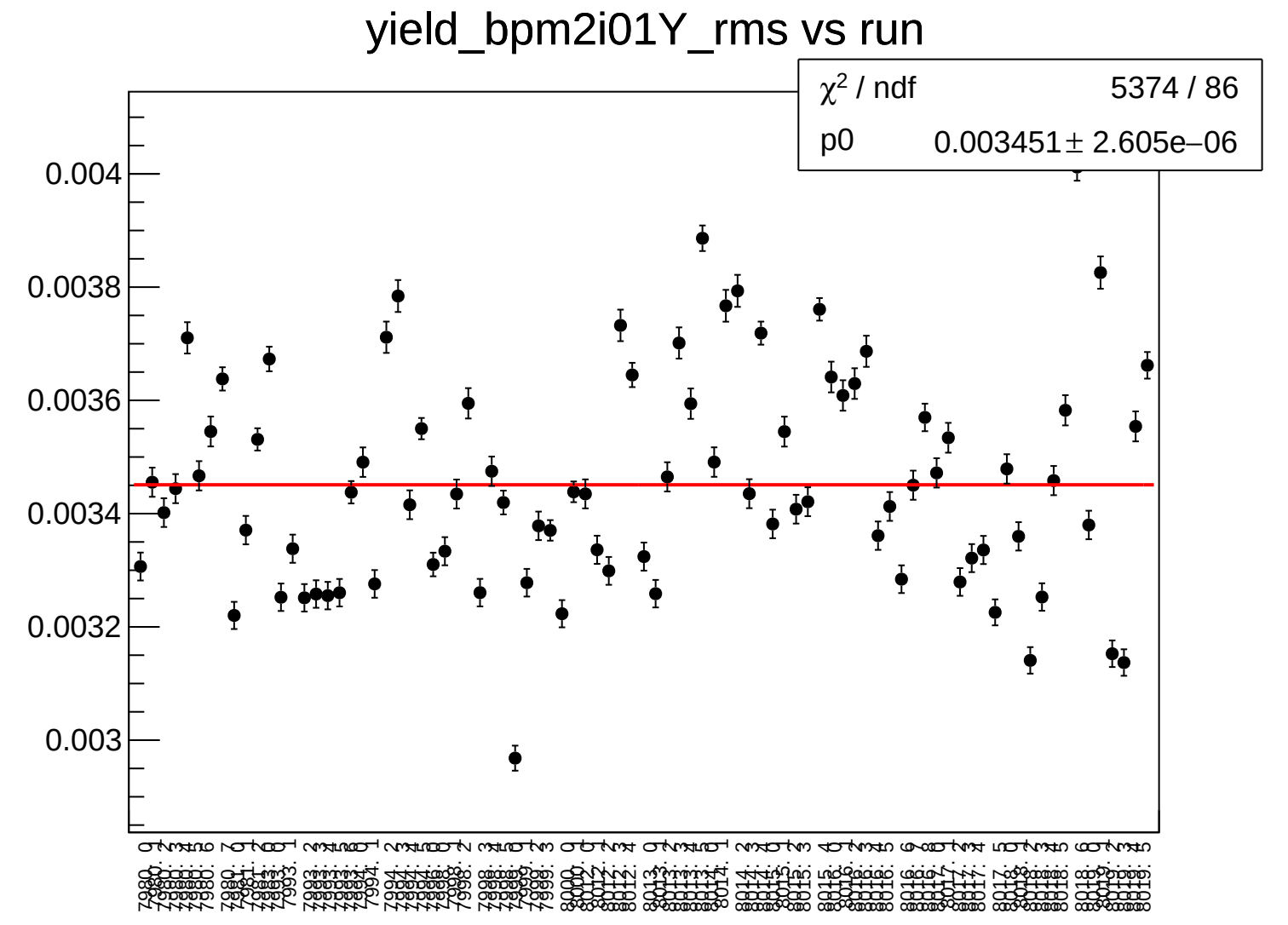

yield_bpm2i01X_mean vs run
χ² / ndf 1.827e+06 / 86
p0 0.9065 ± 4.896e−06
0.915
0.91
0.905
0.9
0.895
pull
Entries 87
Mean 1279
Std Dev 0
200
100
0
−100
−200
−300

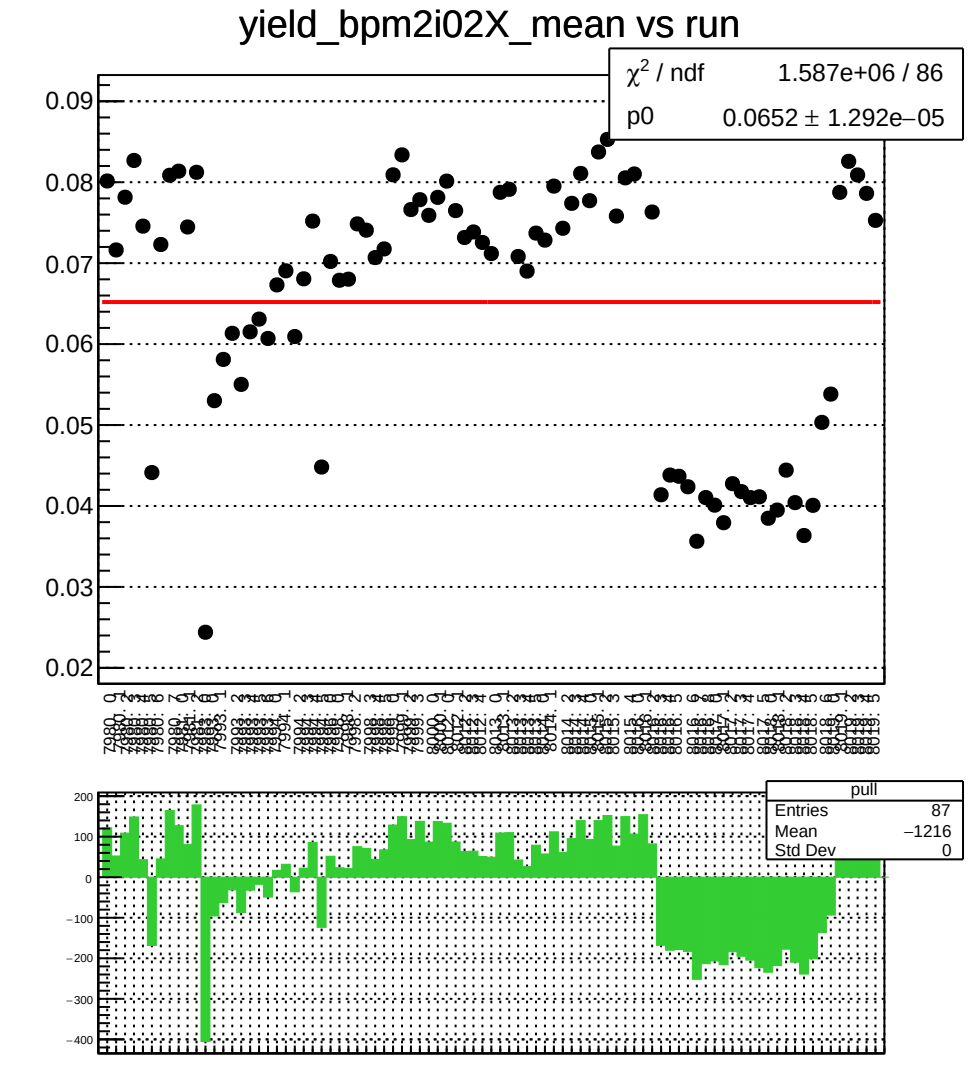

pull1D
Entries 87
Mean 6.011
Std Dev 0.869
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

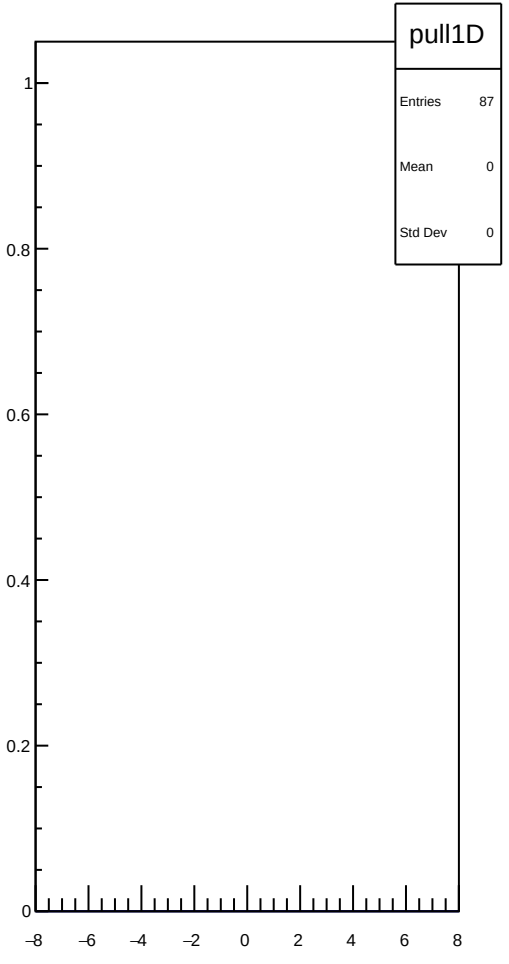

yield_bpm2i01X_rms vs run
χ² / ndf 2.107e+04 / 86
p0 0.004566 ± 3.462e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

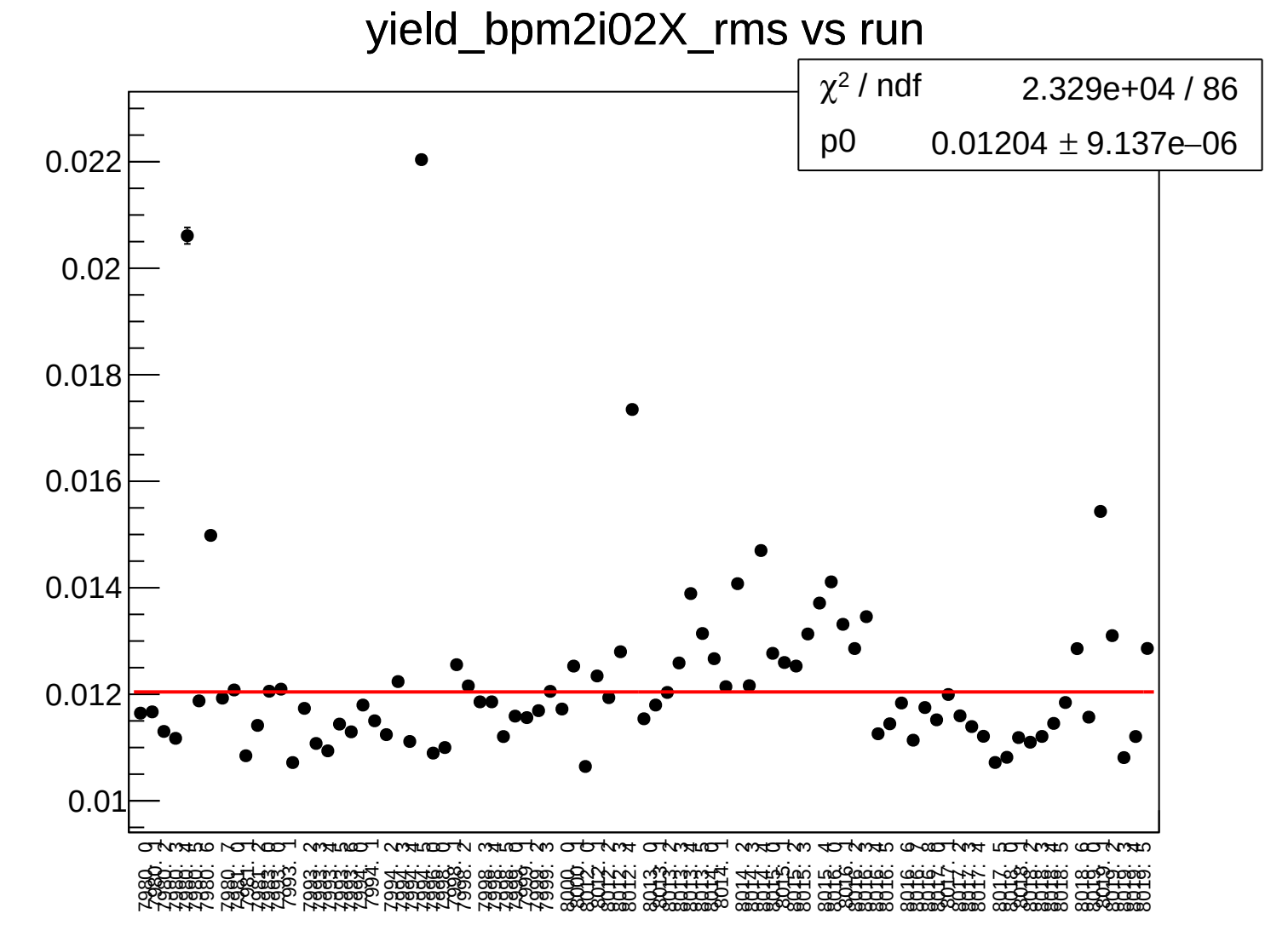

yield_bpm2i01Y_mean vs run
χ² / ndf 7.475e+05 / 86
p0 −4.743 ± 3.684e−06
−4.732
−4.734
−4.736
−4.738
−4.74
−4.742
−4.744
−4.746
−4.748
−4.75
pull
Entries 87
Mean 1461
Std Dev 0
300
200
100
0
−100
−200

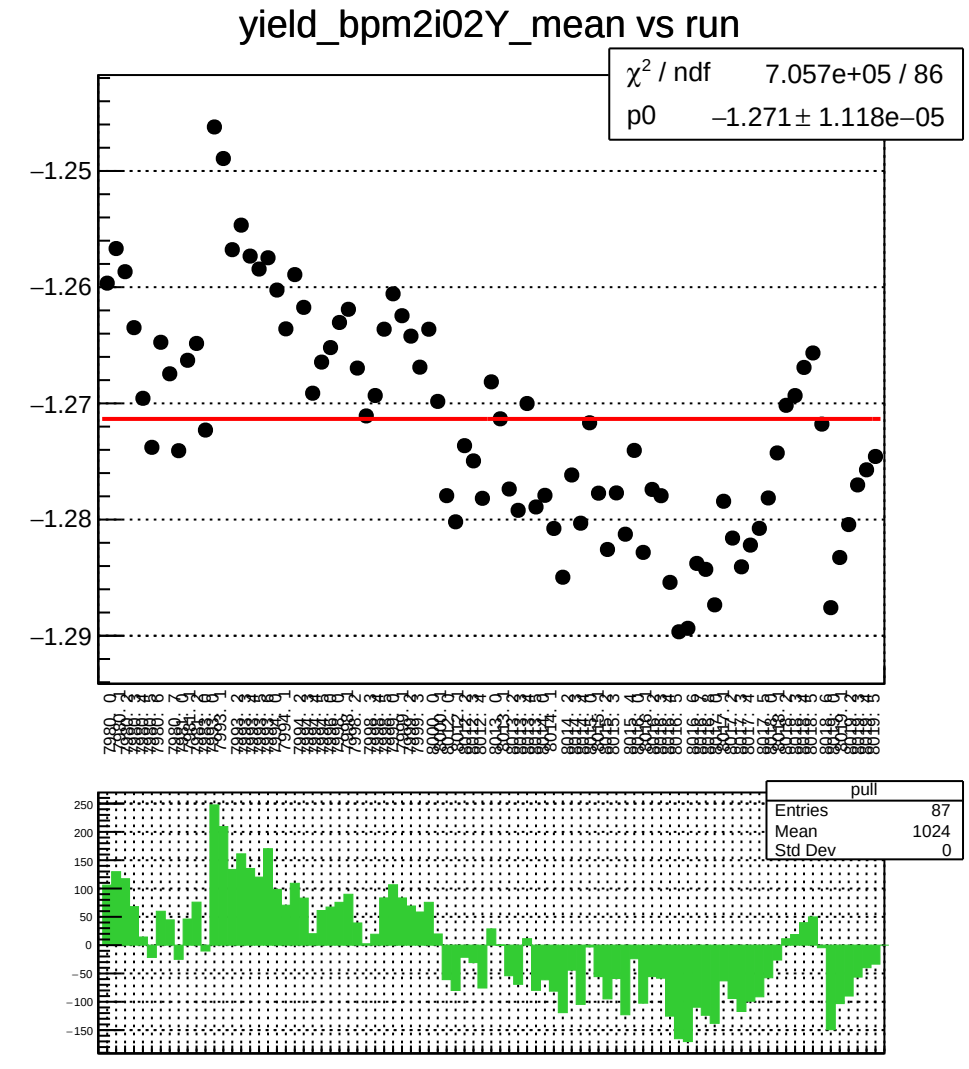

pull1D
Entries 87
Mean −1.311
Std Dev 4.373
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

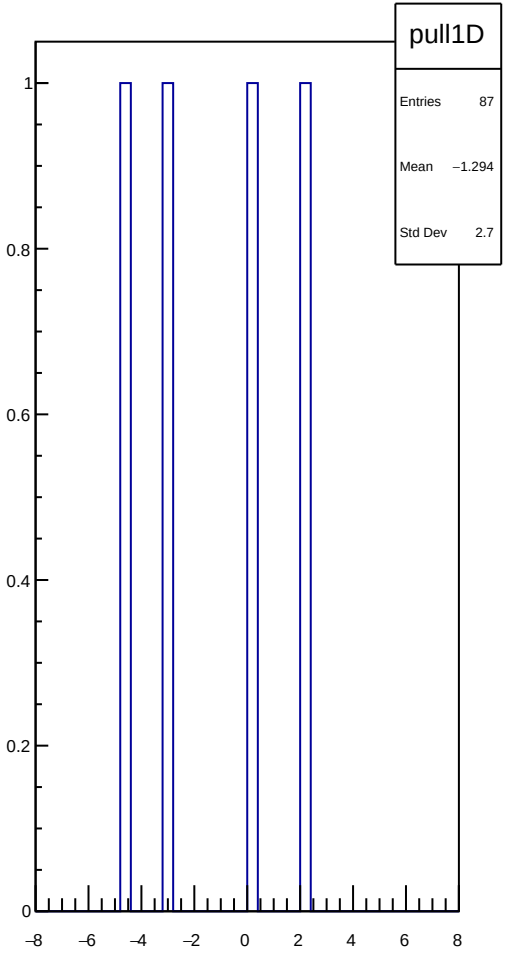

yield_bpm2i01Y_rms vs run
χ² / ndf 5374 / 86
p0 0.003451 ± 2.605e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003

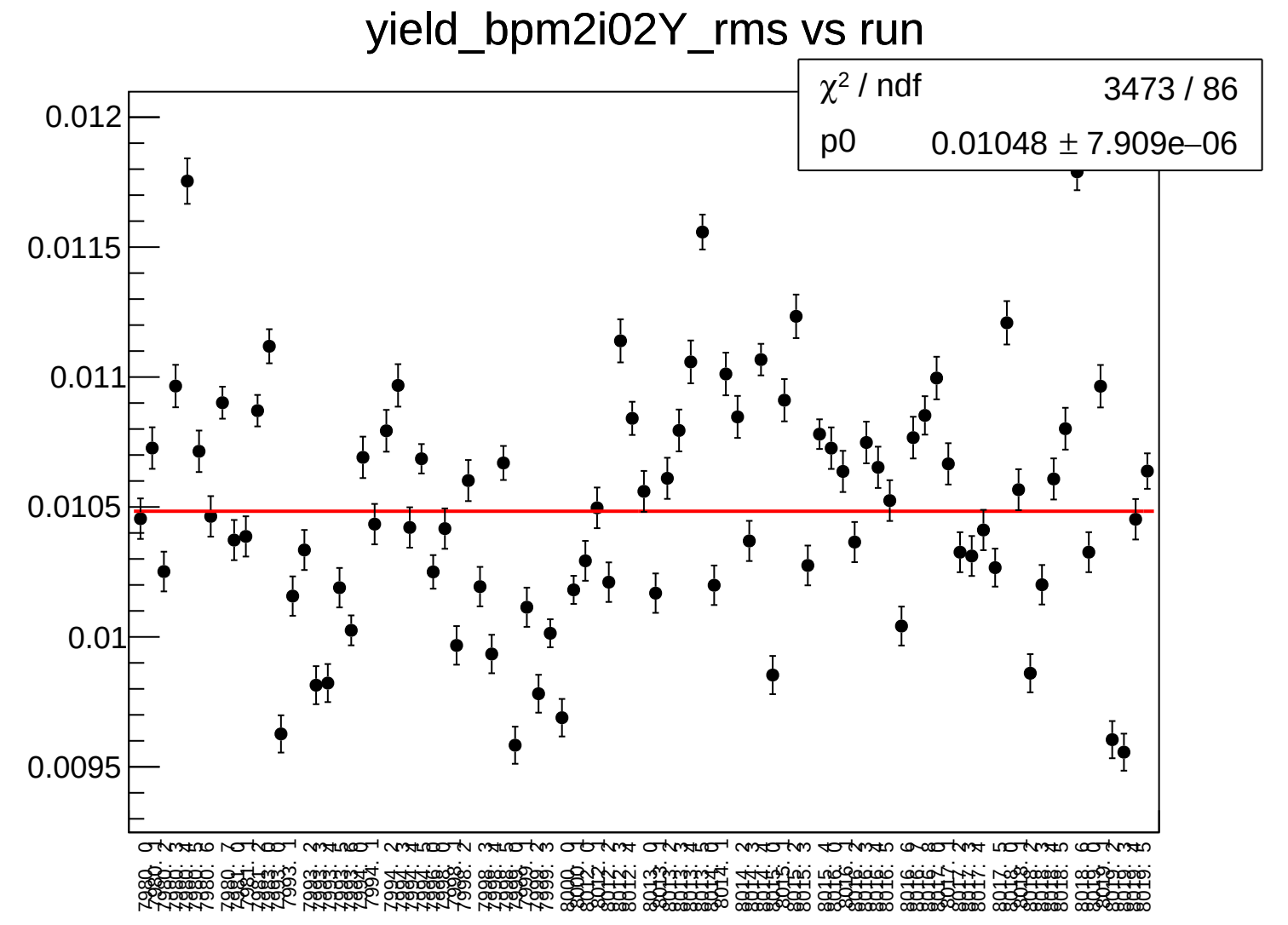

yield_bpm2i02X_mean vs run
χ² / ndf 1.587e+06 / 86
p0 0.0652 ± 1.292e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 87
Mean −1216
Std Dev 0
200
100
0
−100
−200
−300
−400

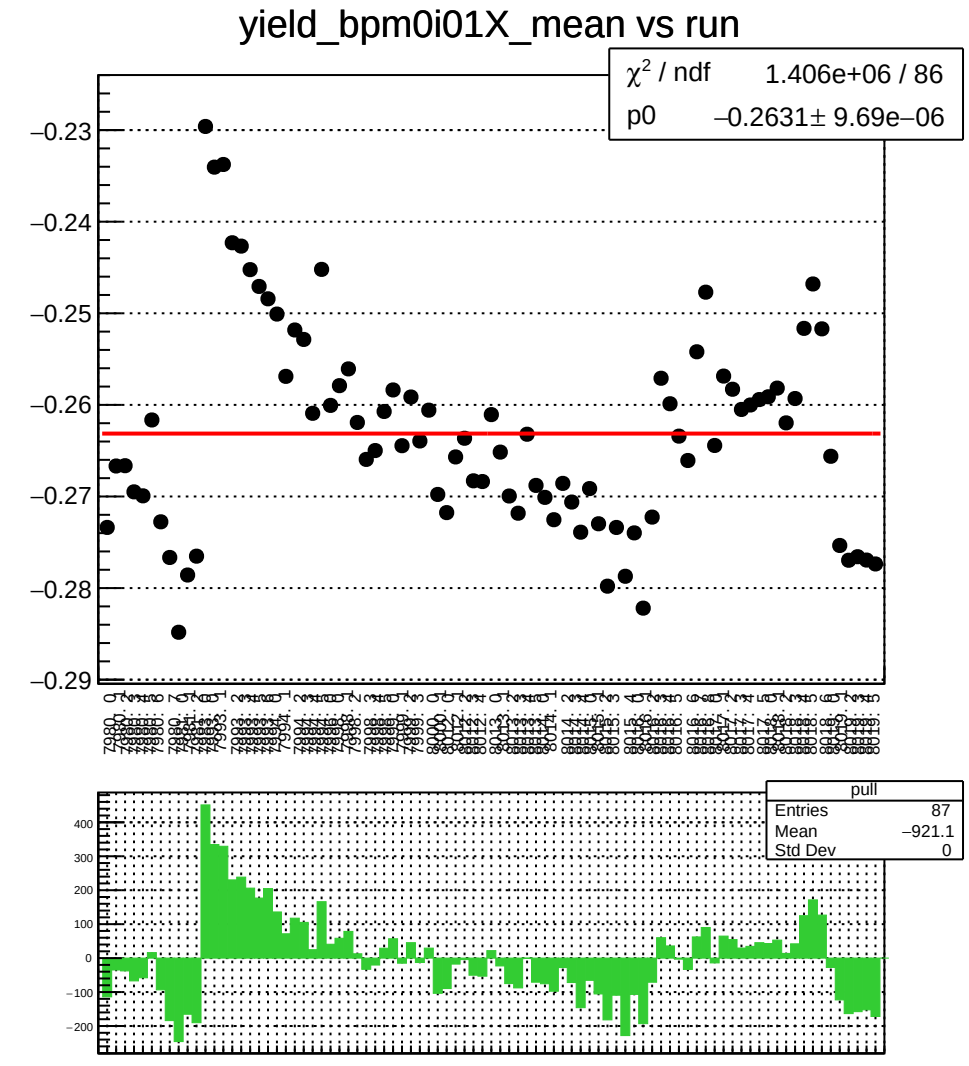

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

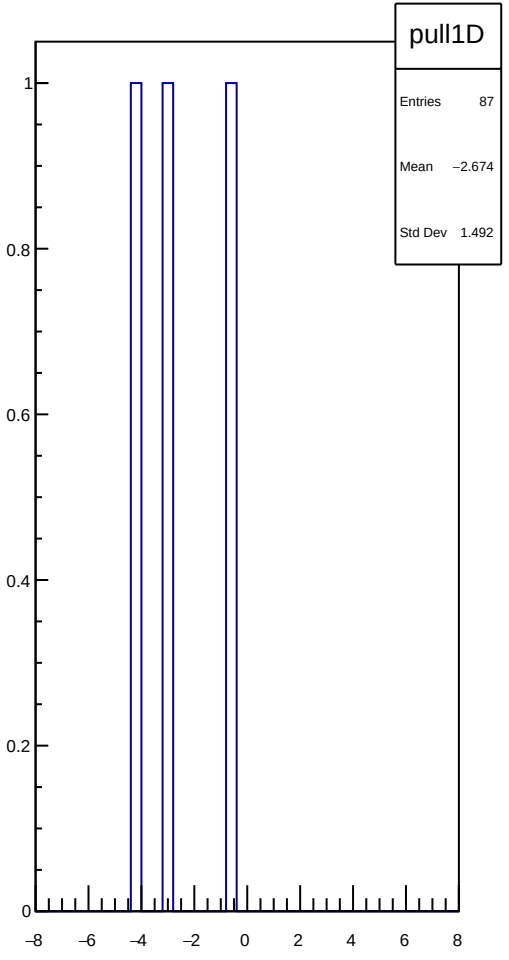

yield_bpm2i02X_rms vs run
χ² / ndf 2.329e+04 / 86
p0 0.01204 ± 9.137e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

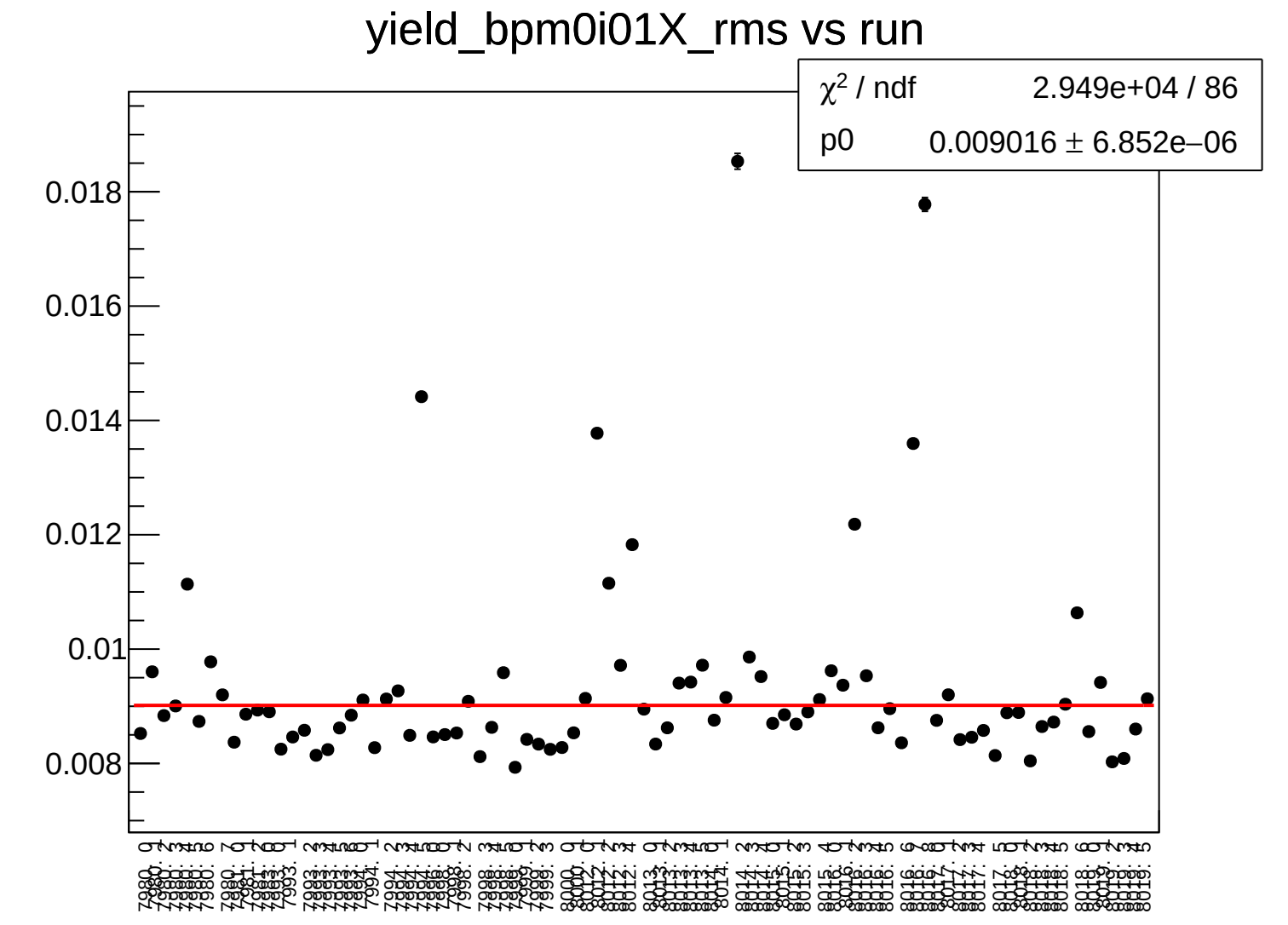

yield_bpm2i02Y_mean vs run
χ² / ndf 7.057e+05 / 86
p0 −1.271 ± 1.118e−05
−1.25
−1.26
−1.27
−1.28
−1.29
pull
Entries 87
Mean 1024
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

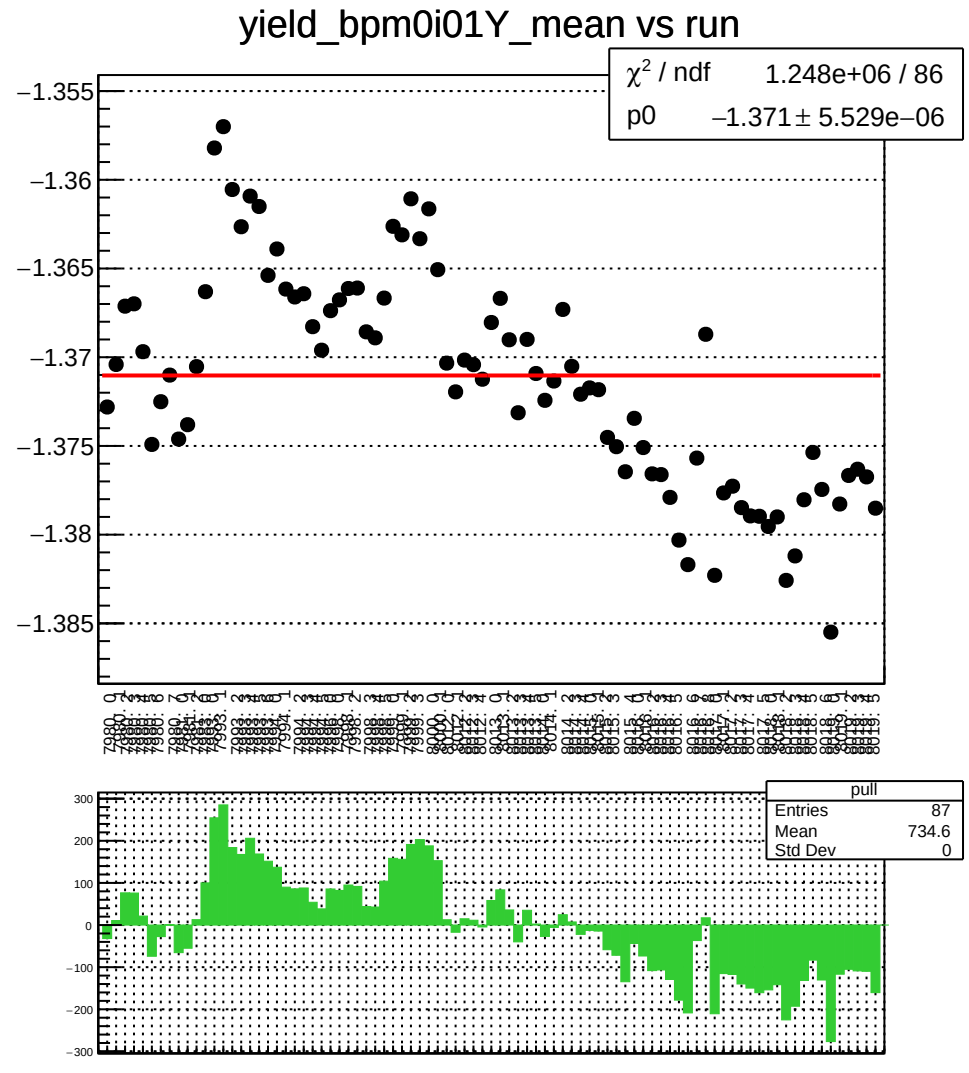

pull1D
Entries 87
Mean −1.294
Std Dev 2.7
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

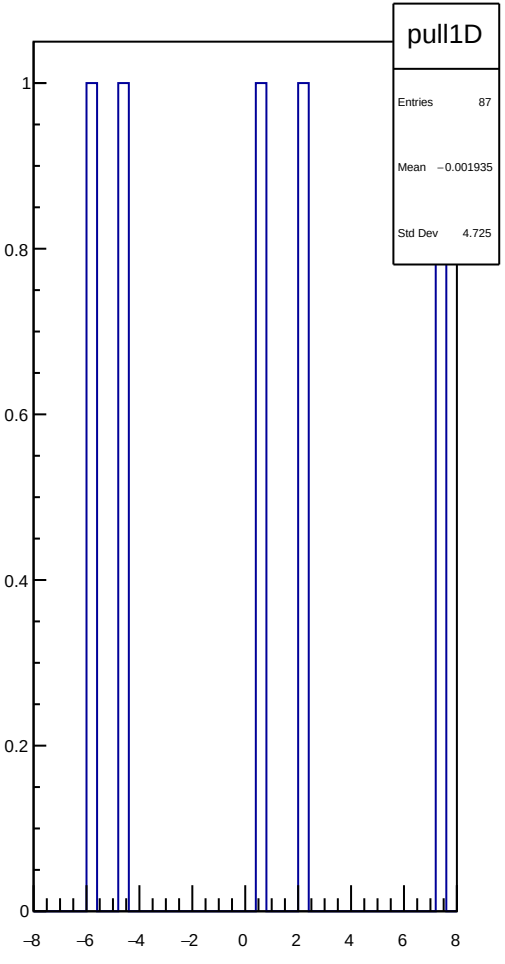

yield_bpm2i02Y_rms vs run
χ² / ndf 3473 / 86
p0 0.01048 ± 7.909e–06
0.012
0.0115
0.011
0.0105
0.01
0.0095

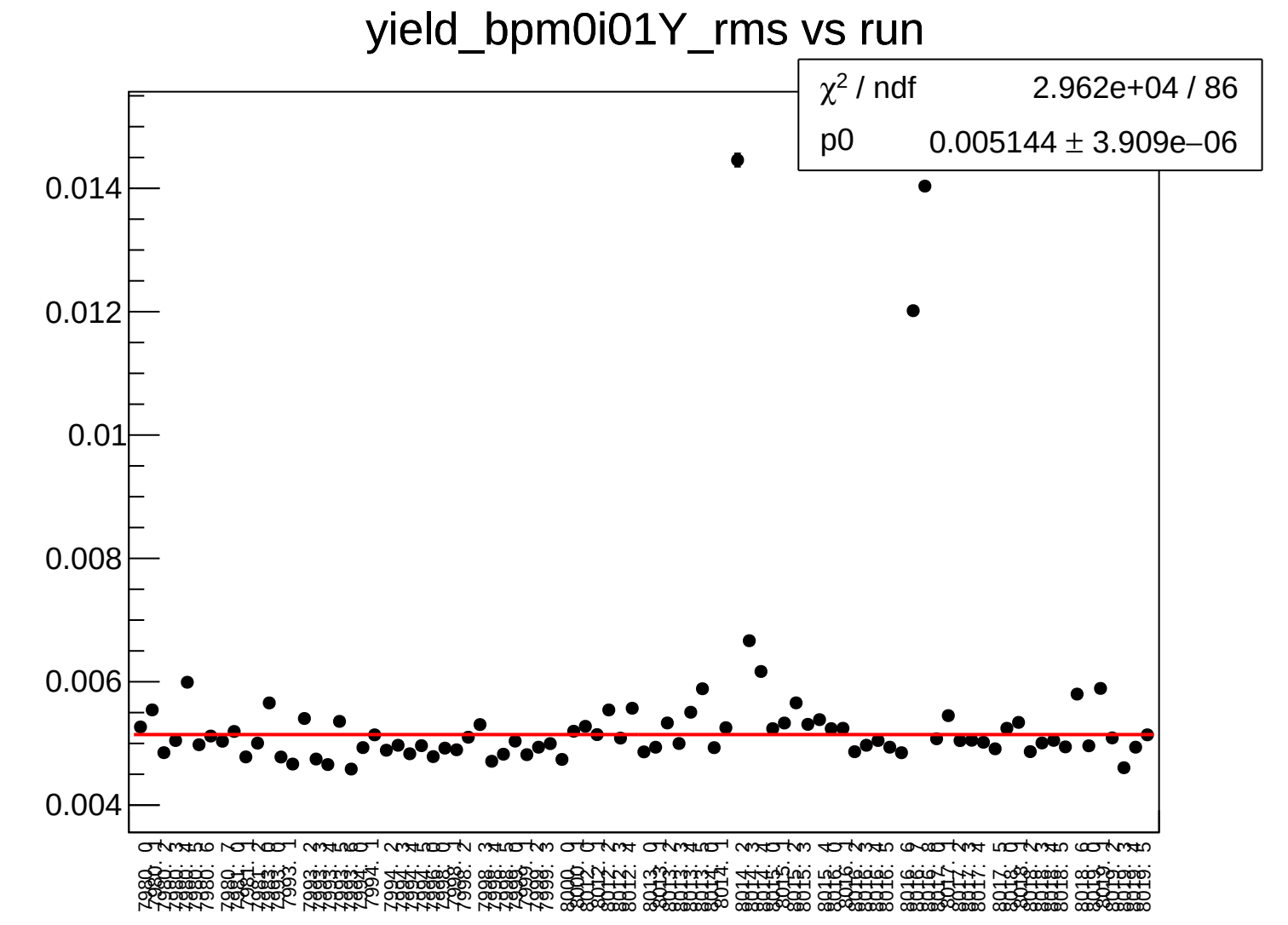

yield_bpm0i01X_mean vs run
χ² / ndf 1.406e+06 / 86
p0 −0.2631± 9.69e−06
−0.23
−0.24
−0.25
−0.26
−0.27
−0.28
−0.29
pull
Entries 87
Mean −921.1
Std Dev 0
400
300
200
100
0
−100
−200

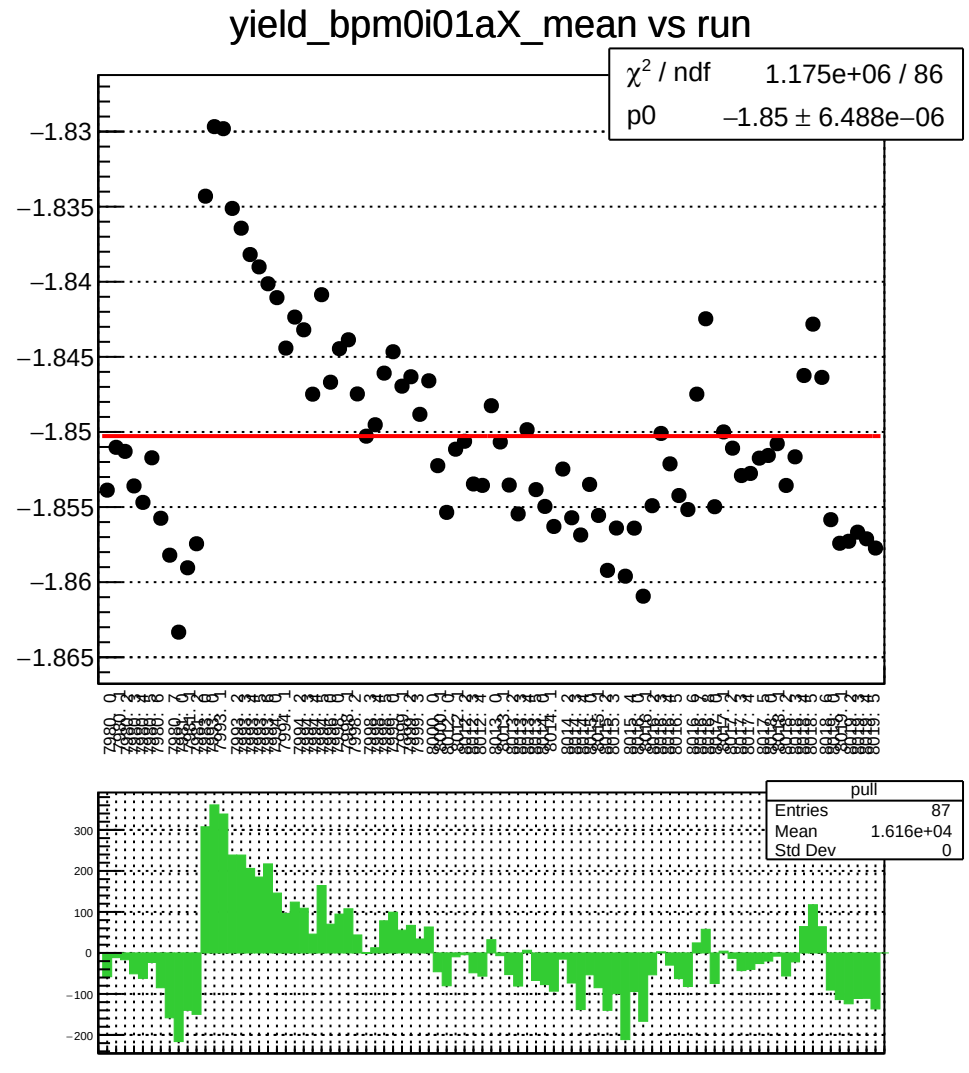

pull1D
Entries 87
Mean −2.674
Std Dev 1.492
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

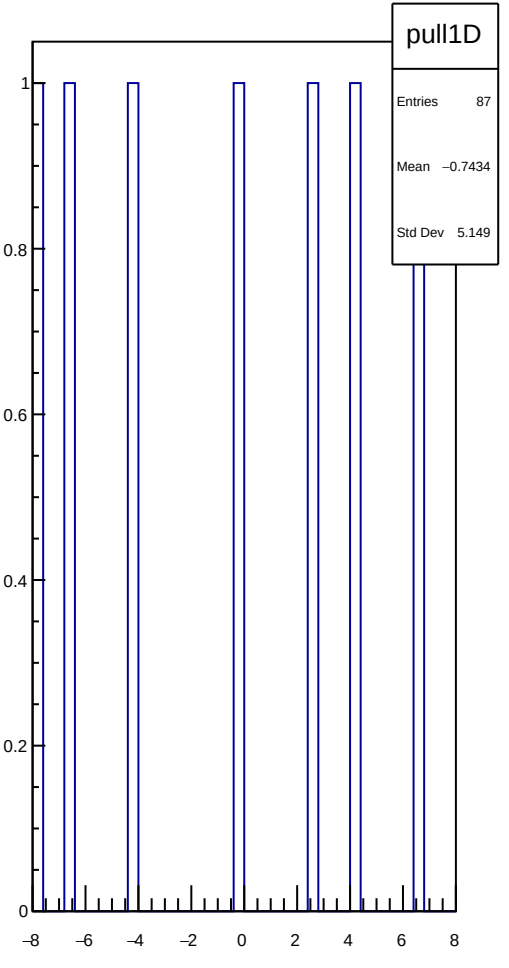

yield_bpm0i01X_rms vs run
χ^2 / ndf 2.949e+04 / 86
p0 0.009016 ± 6.852e−06
0.018
0.016
0.014
0.012
0.01
0.008

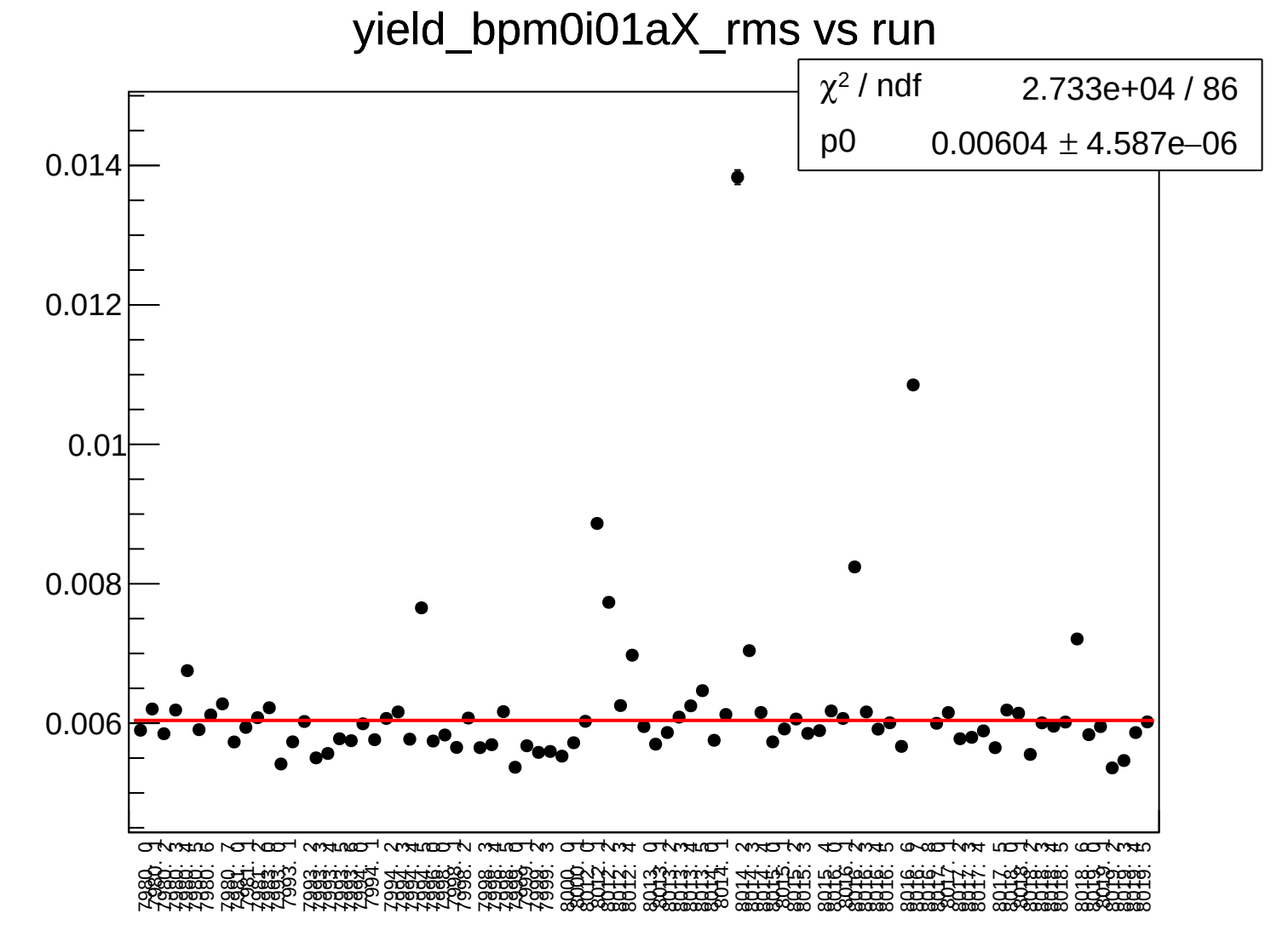

yield_bpm0i01Y_mean vs run
χ² / ndf 1.248e+06 / 86
p0 −1.371 ± 5.529e−06
−1.355
−1.36
−1.365
−1.37
−1.375
−1.38
−1.385
pull
Entries 87
Mean 734.6
Std Dev 0
300
200
100
0
−100
−200
−300

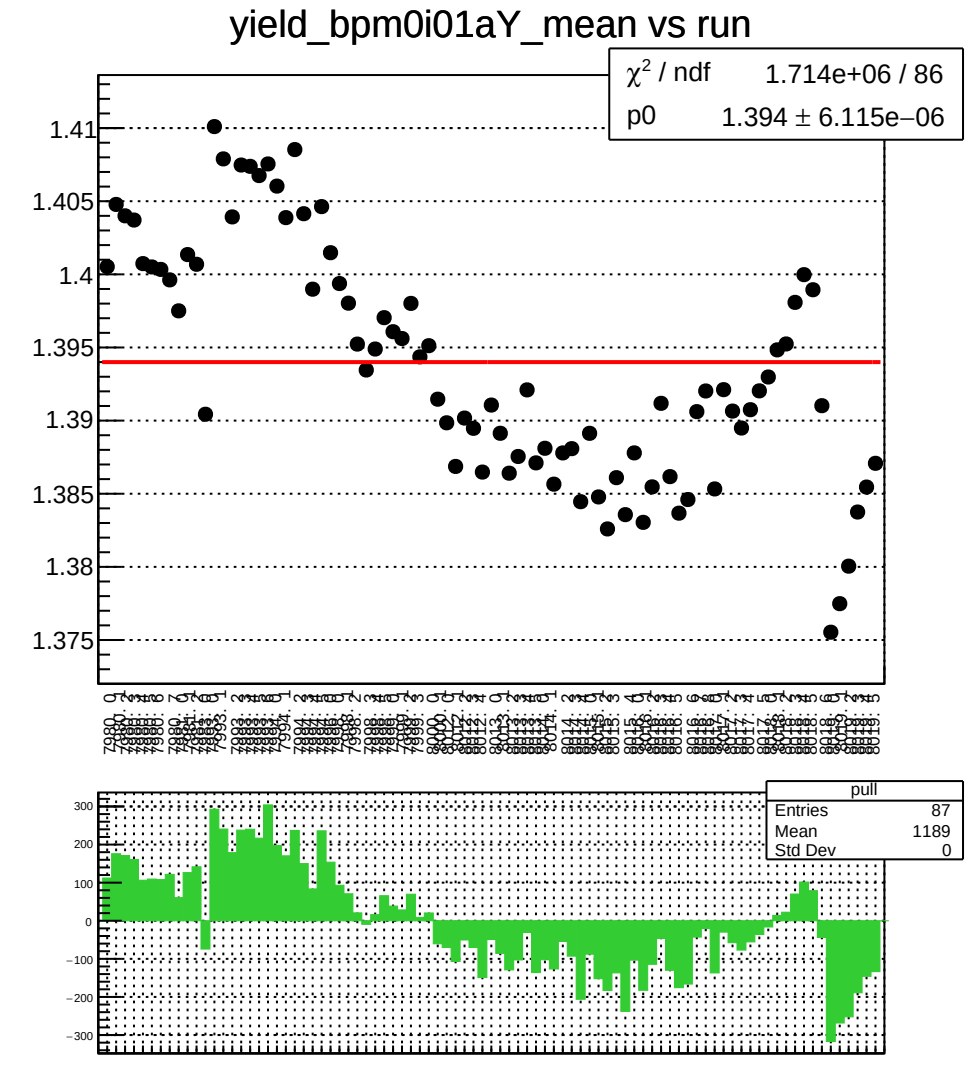

pull1D
Entries 87
Mean −0.001935
Std Dev 4.725
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

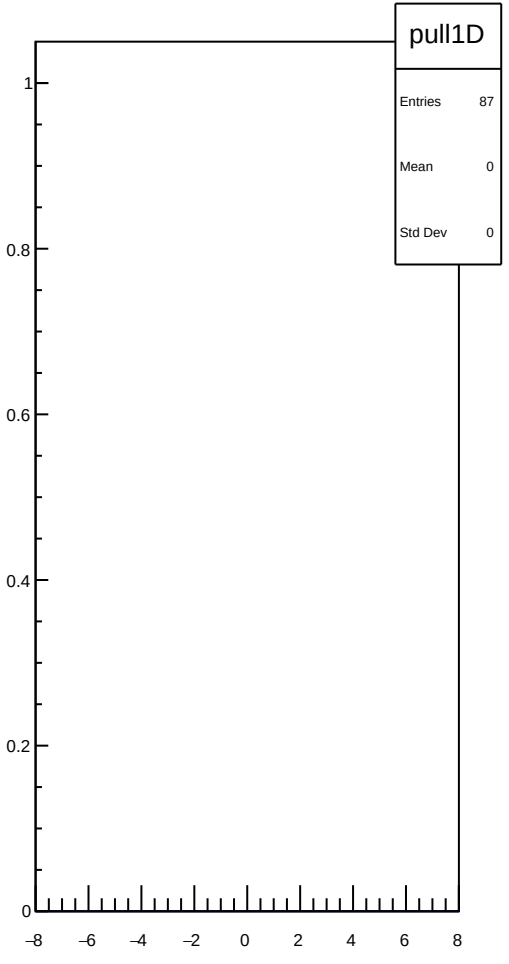

yield_bpm0i01Y_rms vs run
χ^2 / ndf 2.962e+04 / 86
p0 0.005144 ± 3.909e−06
0.014
0.012
0.01
0.008
0.006
0.004

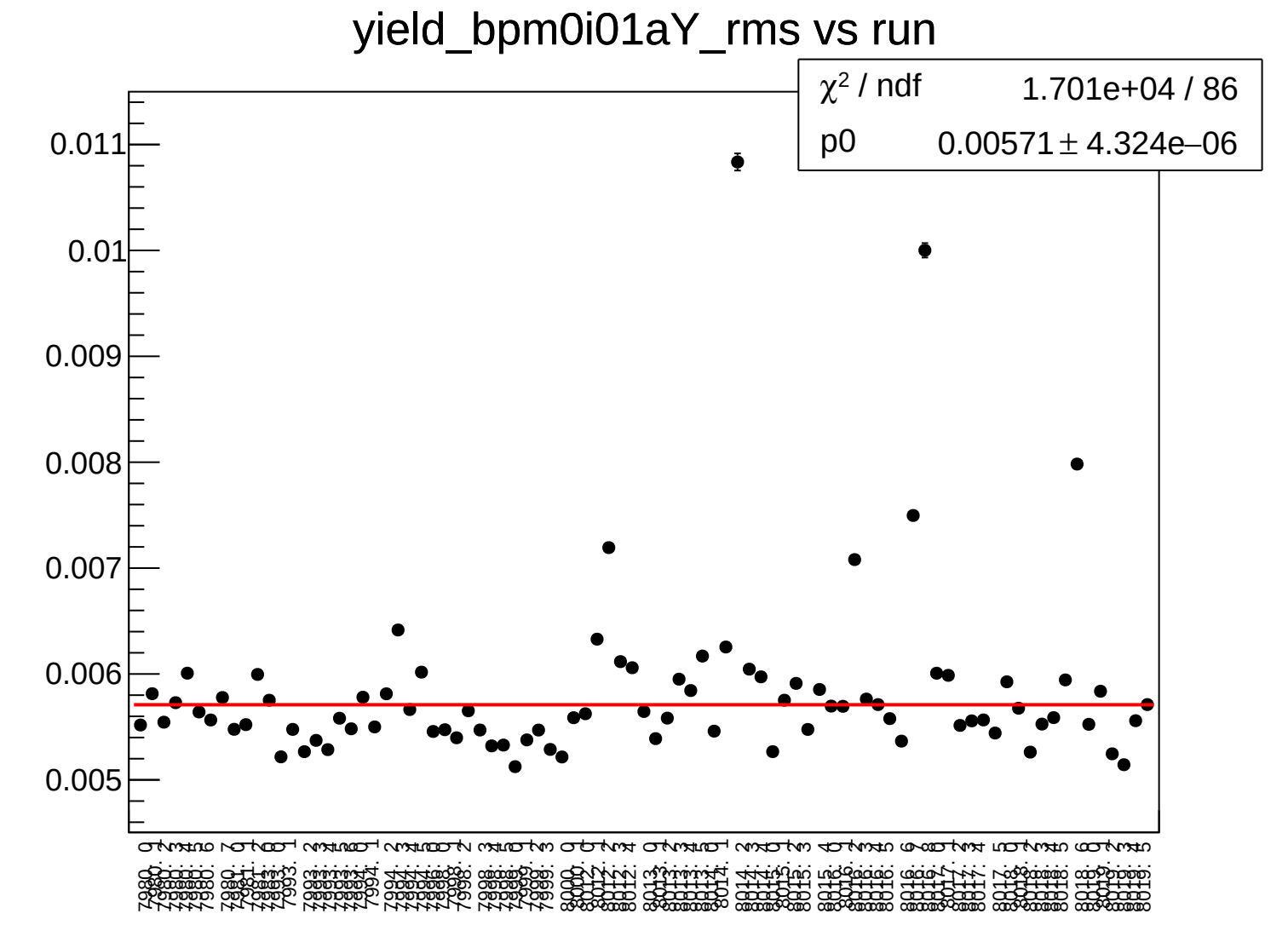

yield_bpm0i01aX_mean vs run
χ² / ndf 1.175e+06 / 86
p0 −1.85 ± 6.488e−06
−1.83
−1.835
−1.84
−1.845
−1.85
−1.855
−1.86
−1.865
pull
Entries 87
Mean 1.616e+04
Std Dev 0
300
200
100
0
−100
−200

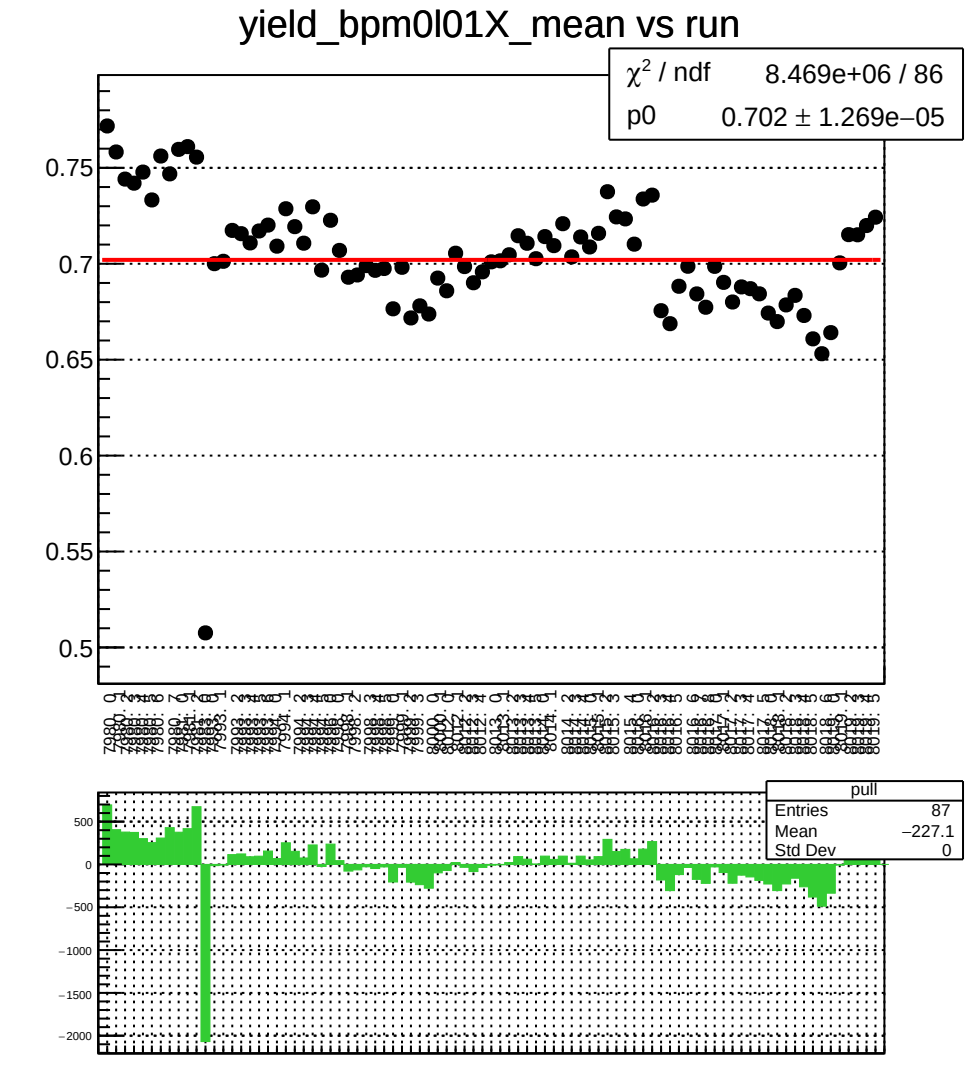

pull1D
Entries 87
Mean −0.7434
Std Dev 5.149
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

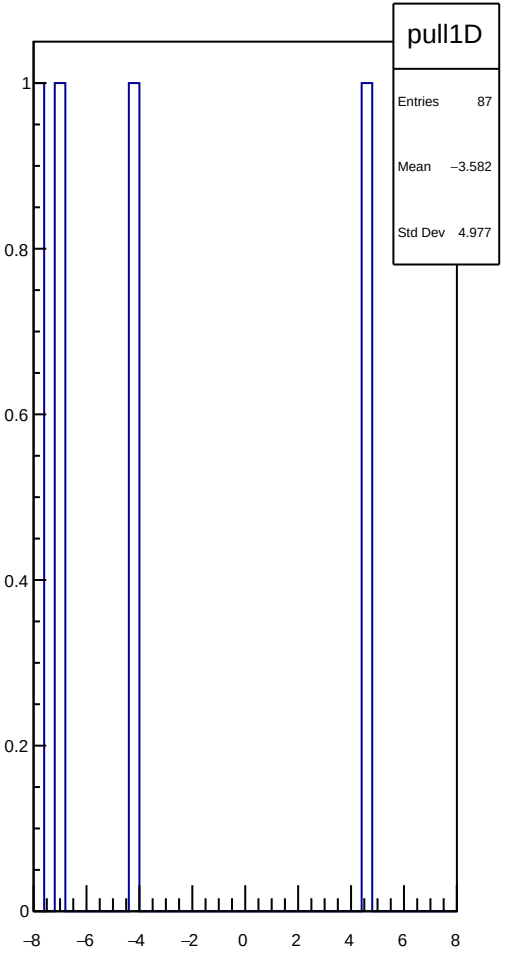

yield_bpm0i01aX_rms vs run
χ² / ndf 2.733e+04 / 86
p0 0.00604 ± 4.587e–06
0.014
0.012
0.01
0.008
0.006

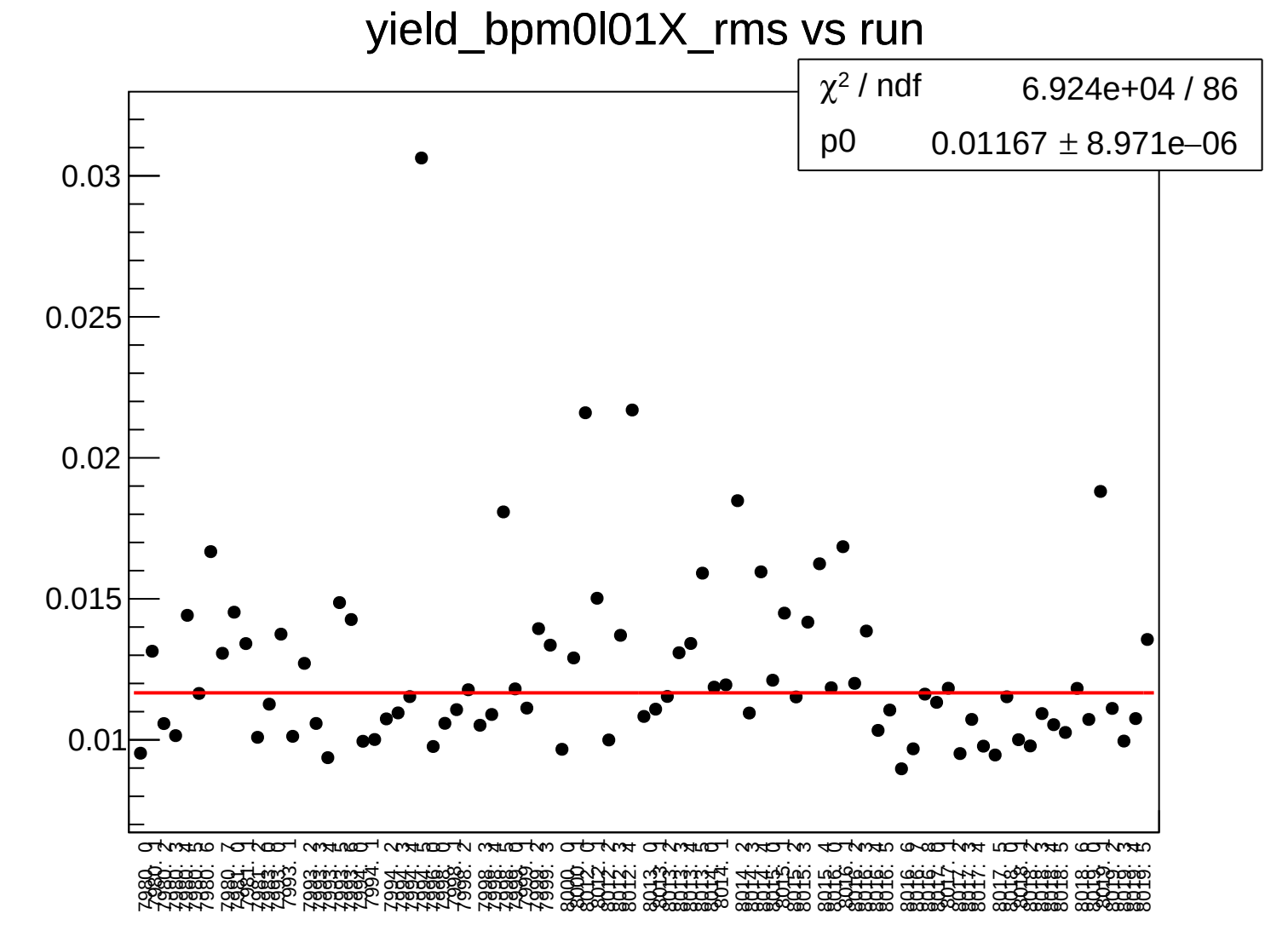

yield_bpm0i01aY_mean vs run
χ² / ndf 1.714e+06 / 86
p0 1.394 ± 6.115e−06
1.41
1.405
1.4
1.395
1.39
1.385
1.38
1.375
pull
Entries 87
Mean 1189
Std Dev 0
300
200
100
0
−100
−200
−300

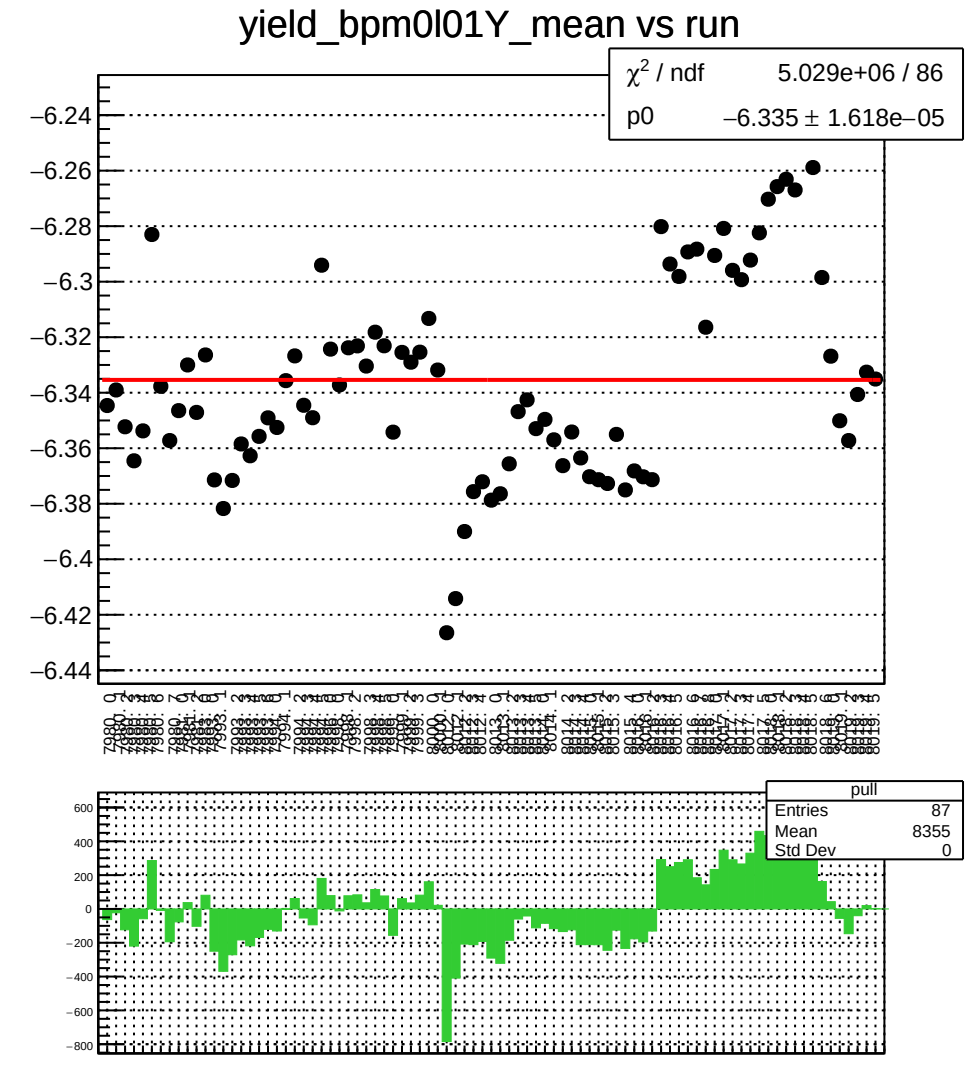

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

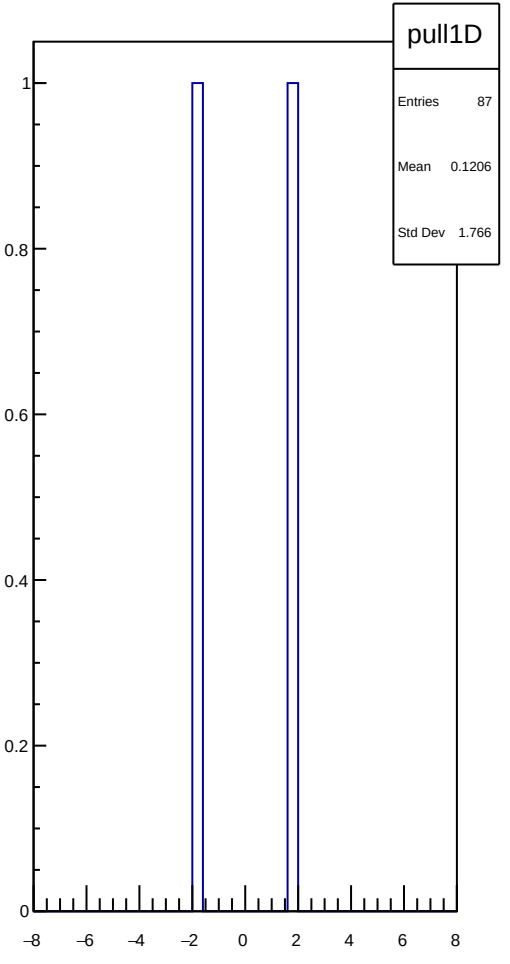

yield_bpm0i01aY_rms vs run
χ² / ndf 1.701e+04 / 86
p0 0.00571 ± 4.324e–06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

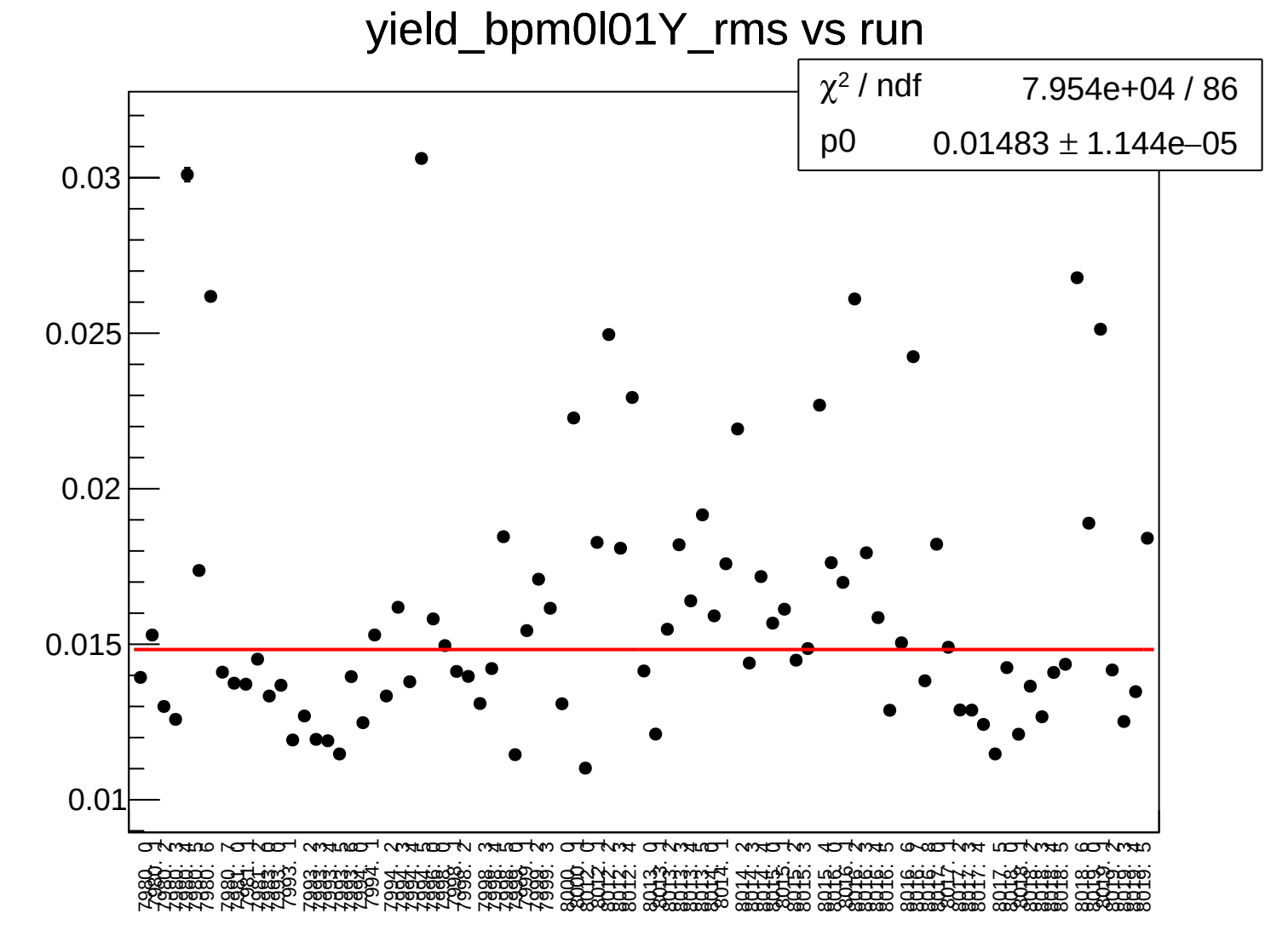

yield_bpm0l01X_mean vs run
χ² / ndf 8.469e+06 / 86
p0 0.702 ± 1.269e−05
0.75
0.7
0.65
0.6
0.55
0.5
pull
Entries 87
Mean −227.1
Std Dev 0
500
0
−500
−1000
−1500
−2000

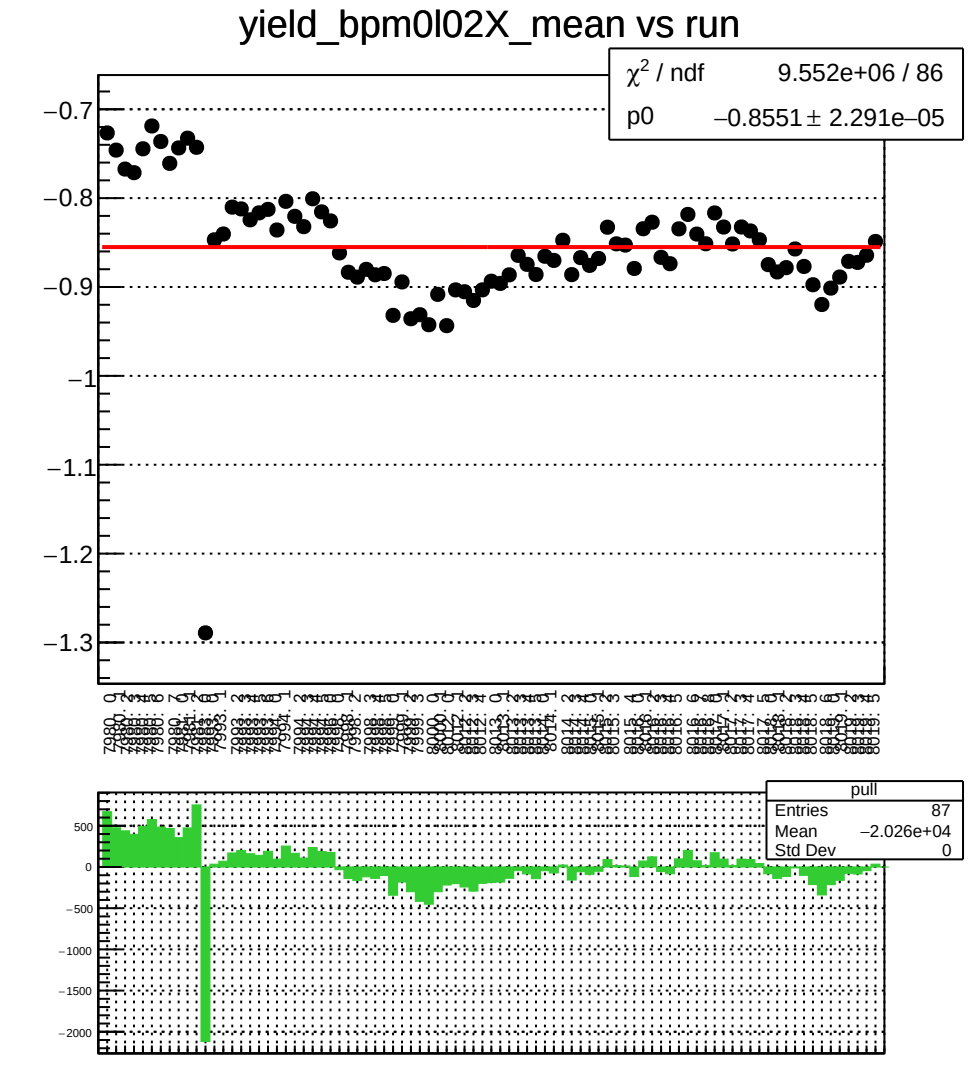

pull1D
Entries 87
Mean −3.582
Std Dev 4.977
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

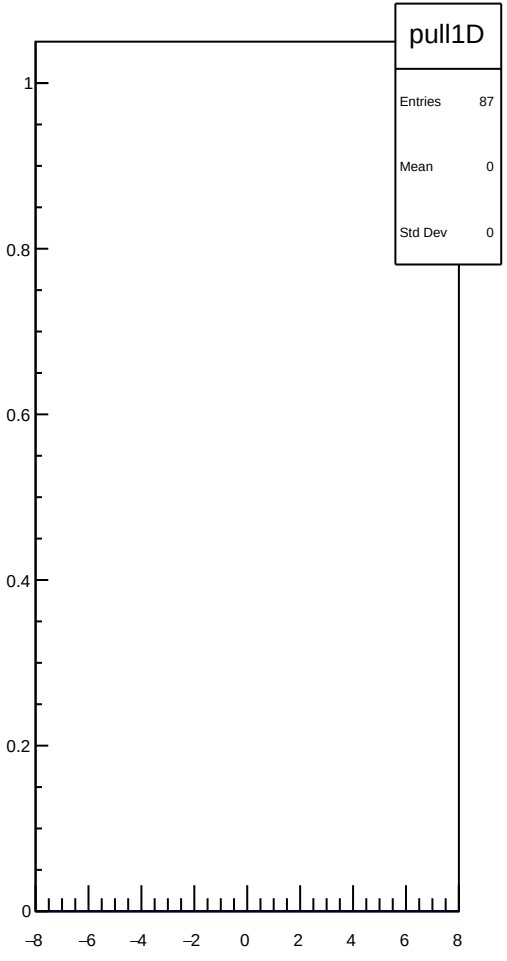

yield_bpm0l01X_rms vs run
χ² / ndf 6.924e+04 / 86
p0 0.01167 ± 8.971e–06
0.03
0.025
0.02
0.015
0.01

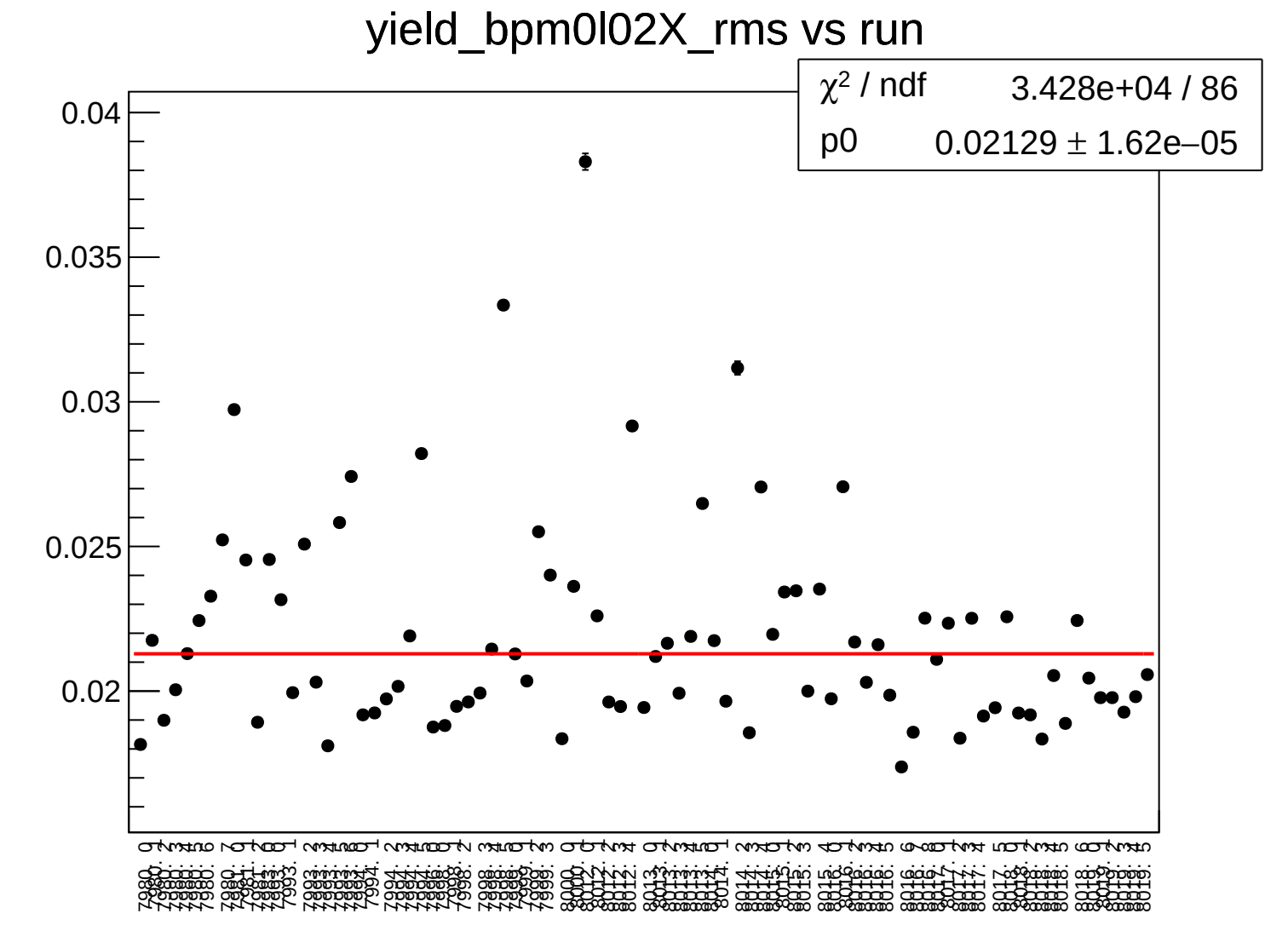

yield_bpm0l01Y_mean vs run
χ² / ndf 5.029e+06 / 86
p0 −6.335 ± 1.618e−05
−6.24
−6.26
−6.28
−6.3
−6.32
−6.34
−6.36
−6.38
−6.4
−6.42
−6.44
pull
Entries 87
Mean 8355
Std Dev 0
600
400
200
0
−200
−400
−600
−800

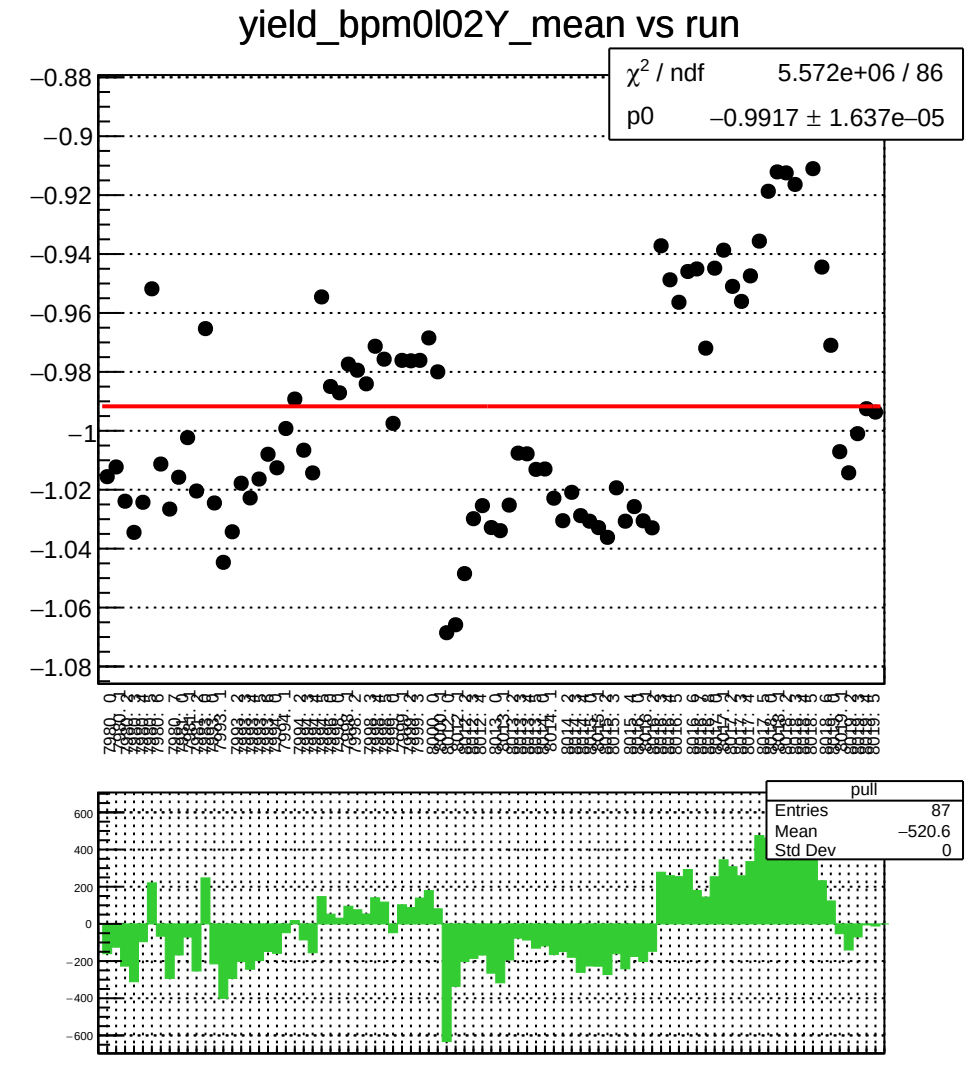

pull1D
Entries 87
Mean 0.1206
Std Dev 1.766
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

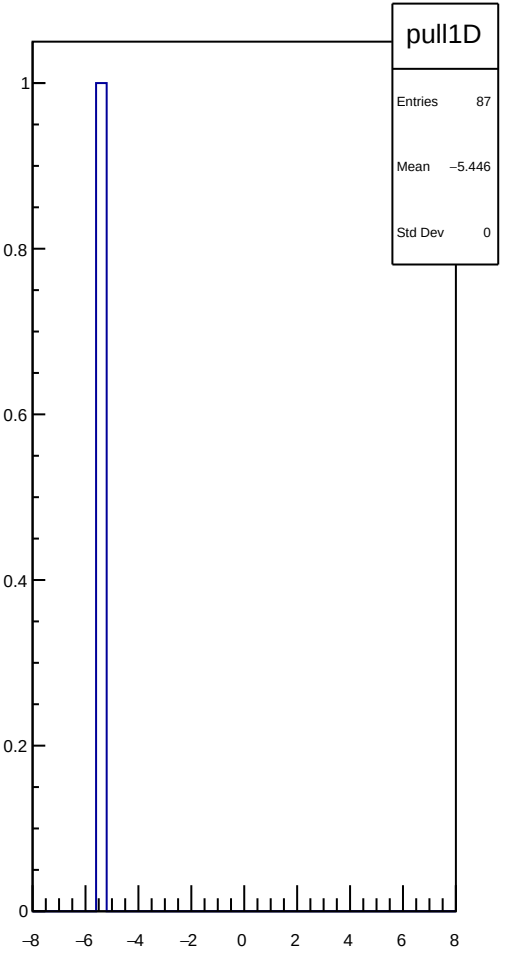

yield_bpm0l01Y_rms vs run
χ² / ndf 7.954e+04 / 86
p0 0.01483 ± 1.144e−05
0.03
0.025
0.02
0.015
0.01

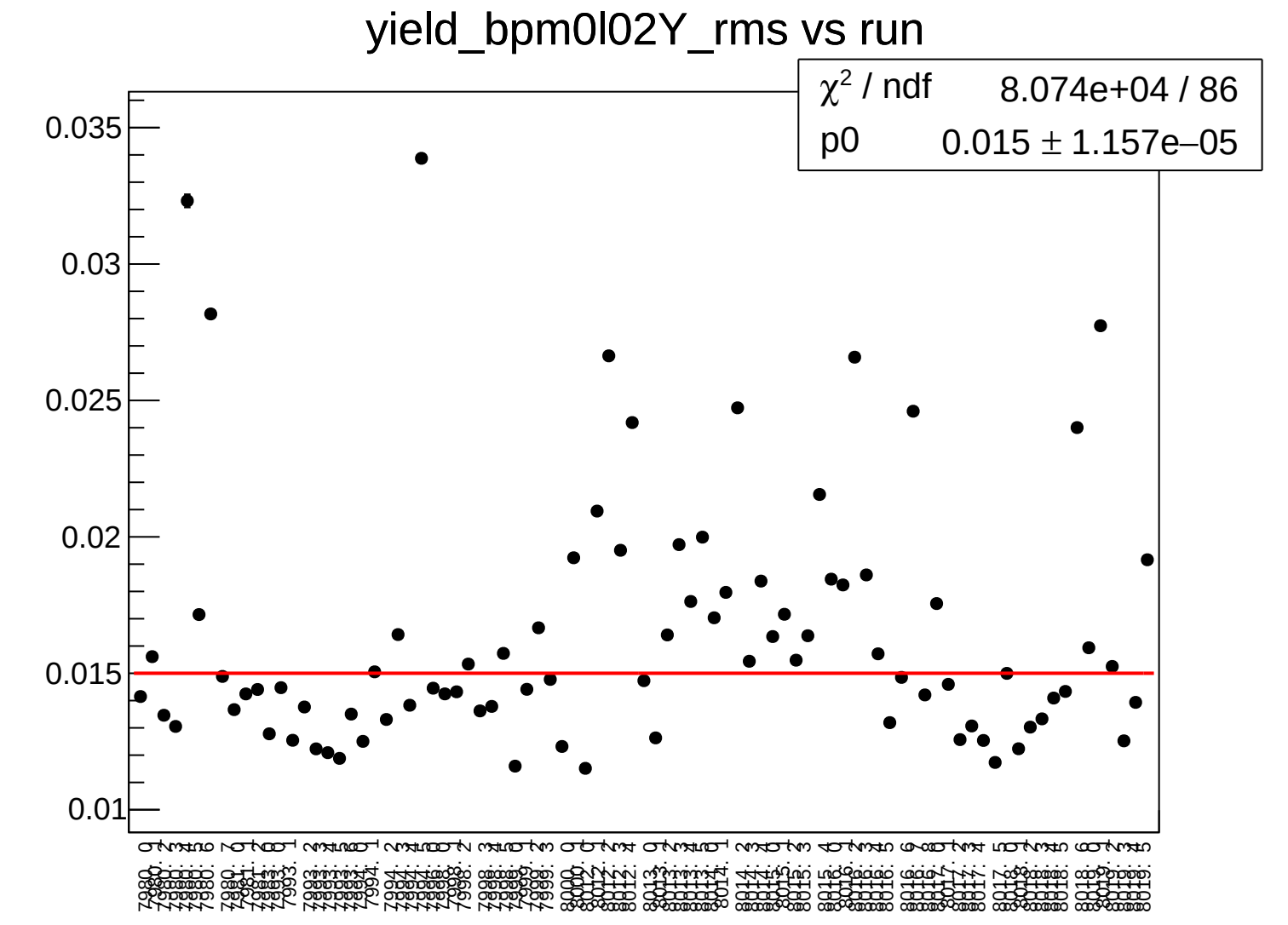

yield_bpm0l02X_mean vs run
χ² / ndf 9.552e+06 / 86
p0 −0.8551 ± 2.291e−05
−0.7
−0.8
−0.9
−1
−1.1
−1.2
−1.3
pull
Entries 87
Mean −2.026e+04
Std Dev 0
500
0
−500
−1000
−1500
−2000

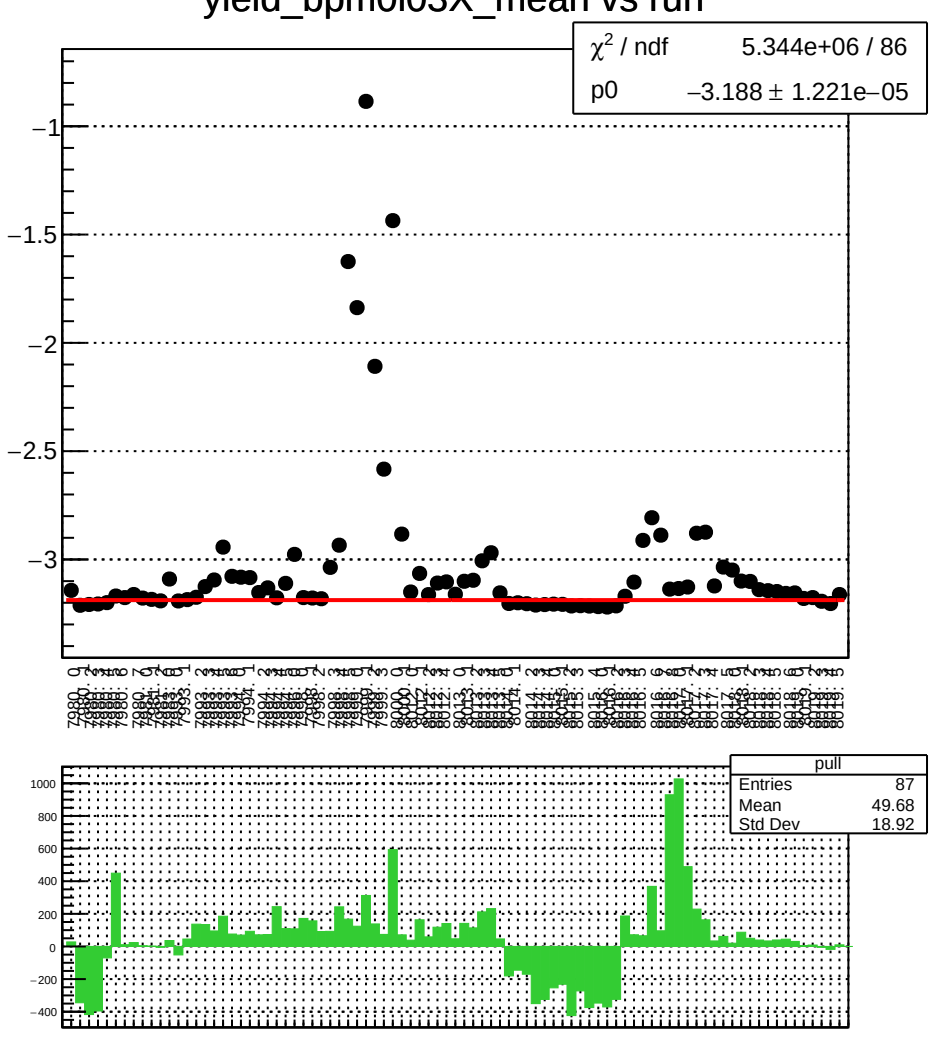

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

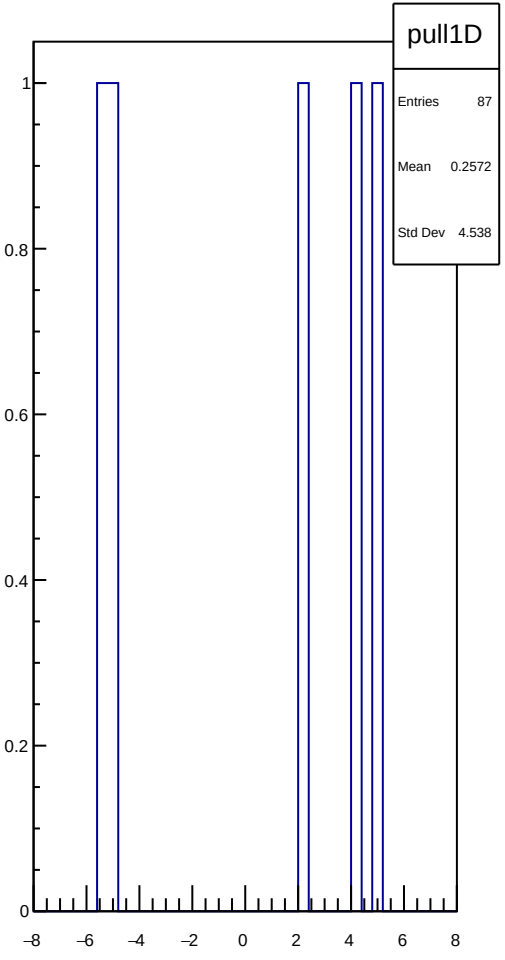

yield_bpm0l02X_rms vs run
χ² / ndf 3.428e+04 / 86
p0 0.02129 ± 1.62e−05
0.04
0.035
0.03
0.025
0.02

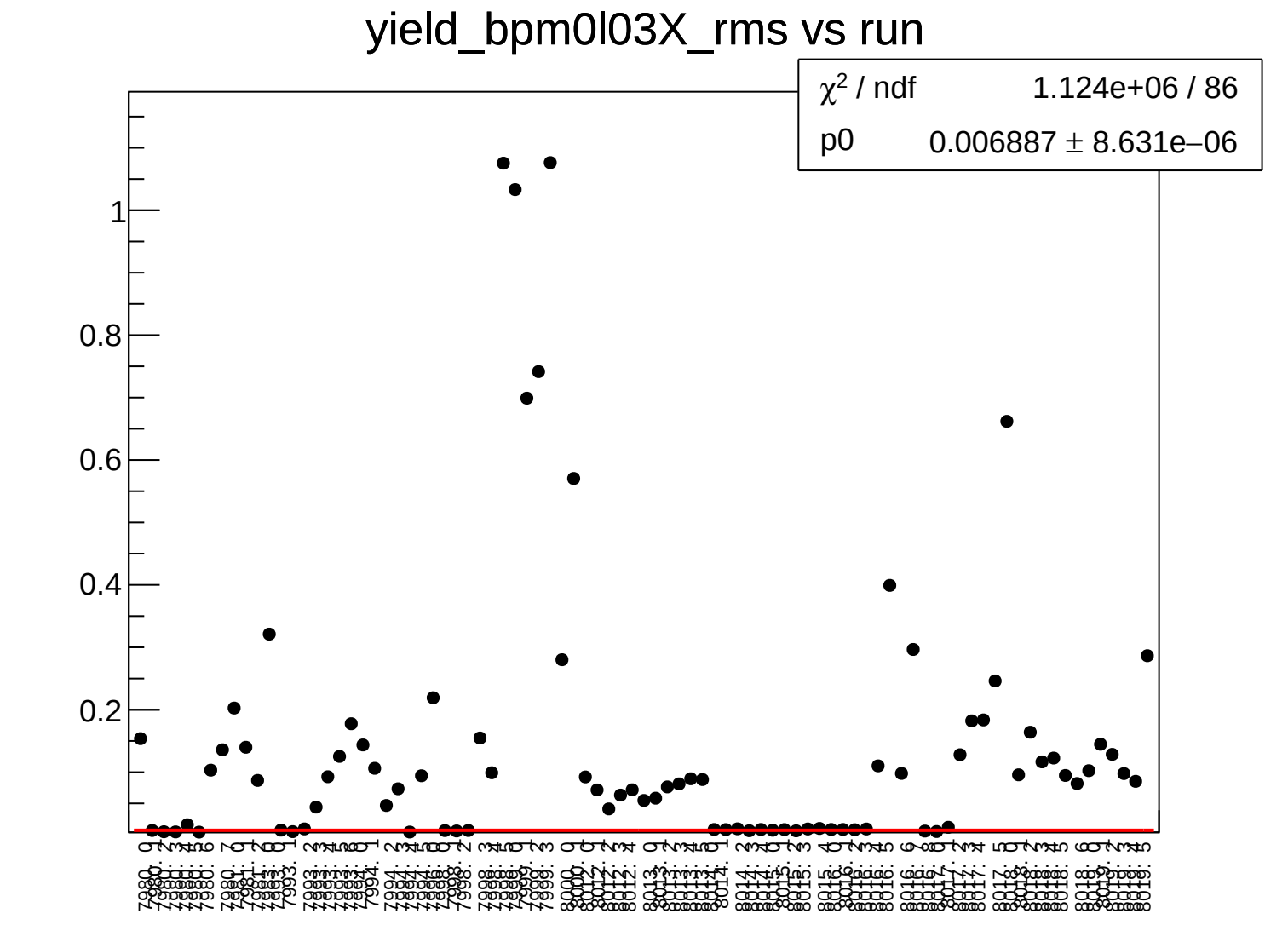

yield_bpm0l02Y_mean vs run
χ² / ndf 5.572e+06 / 86
p0 −0.9917 ± 1.637e−05
pull
Entries 87
Mean −520.6
Std Dev 0

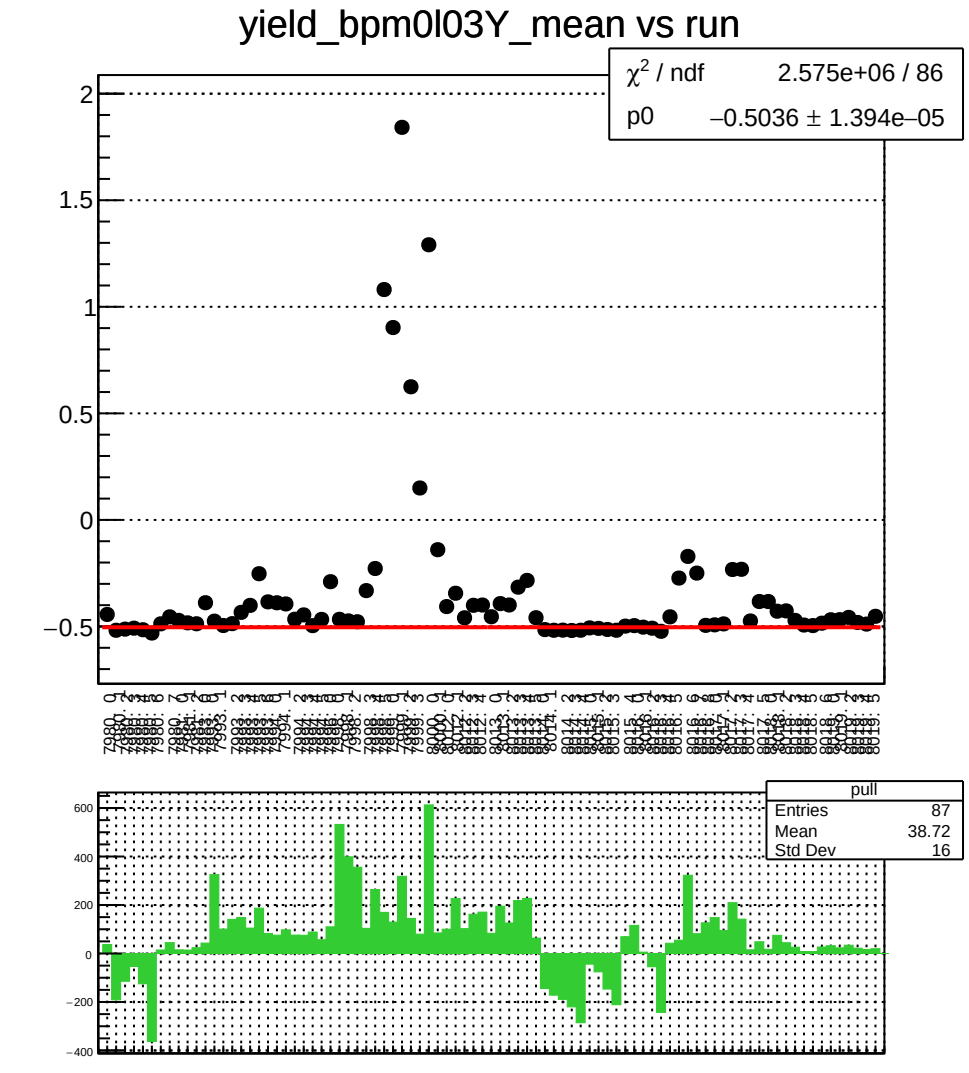

pull1D
Entries 87
Mean −5.446
Std Dev 0

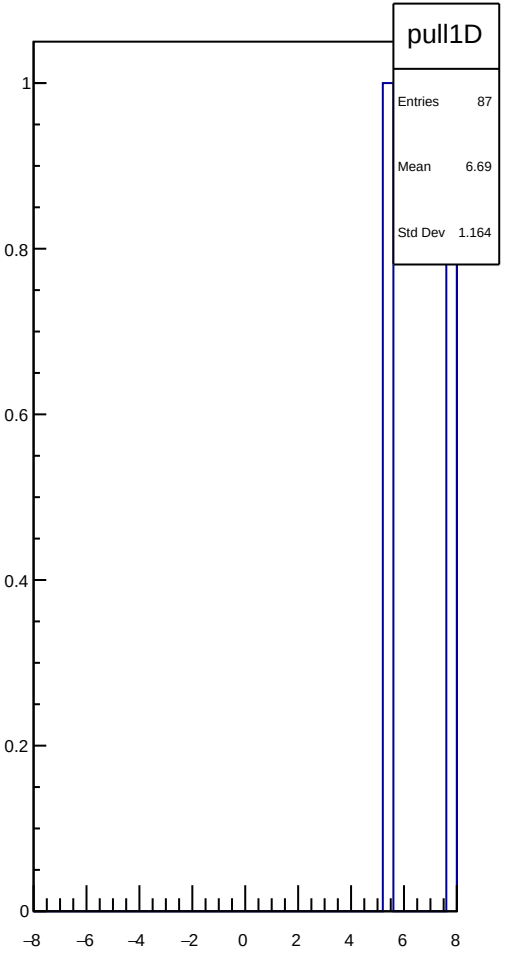

yield_bpm0l02Y_rms vs run
χ² / ndf 8.074e+04 / 86
p0 0.015 ± 1.157e–05
0.035
0.03
0.025
0.02
0.015
0.01

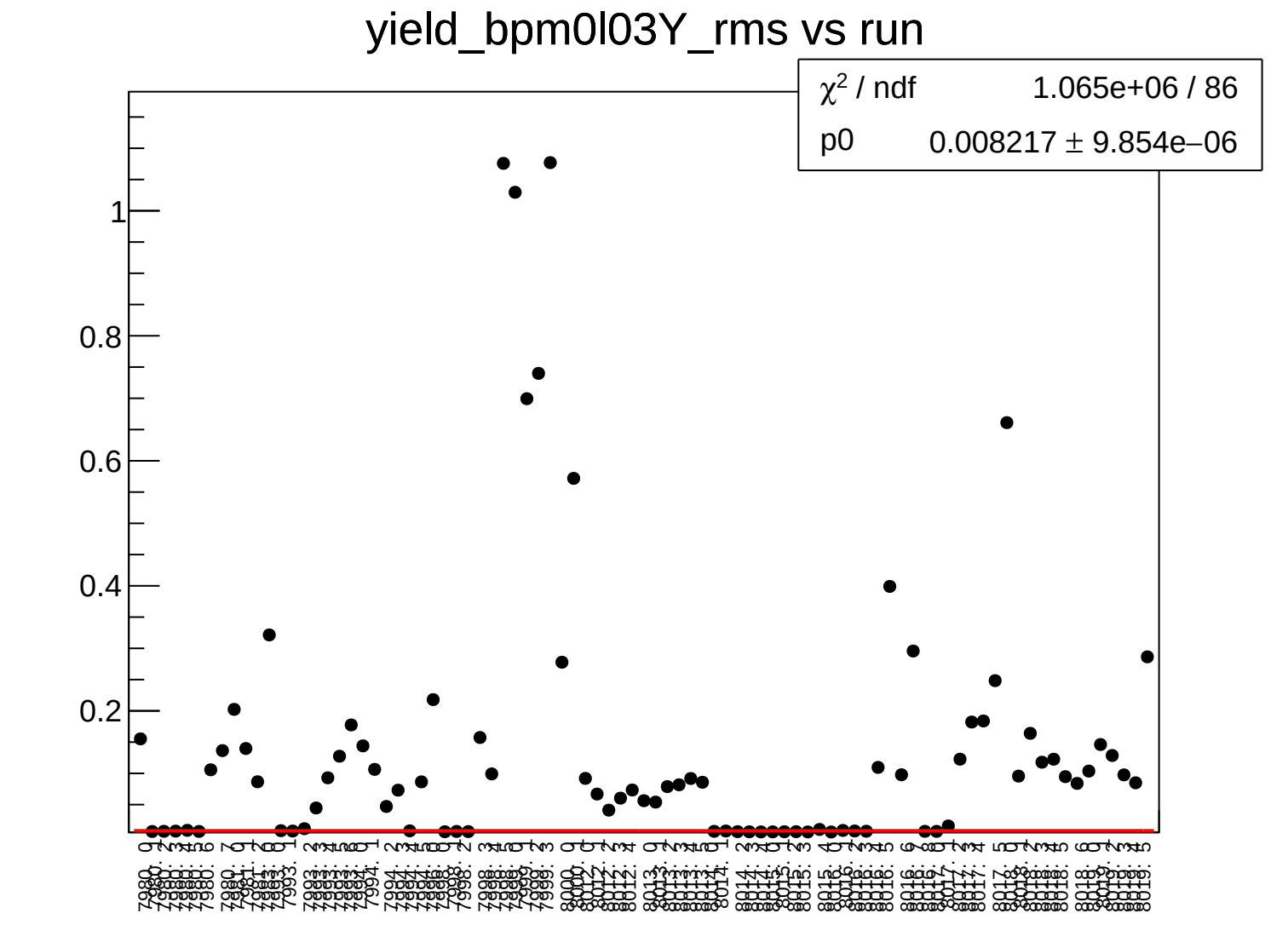

yield_bpm0l03X_mean vs run
χ² / ndf 5.344e+06 / 86
p0 −3.188 ± 1.221e−05
−1
−1.5
−2
−2.5
−3
pull
Entries 87
Mean 49.68
Std Dev 18.92
1000
800
600
400
200
0
−200
−400

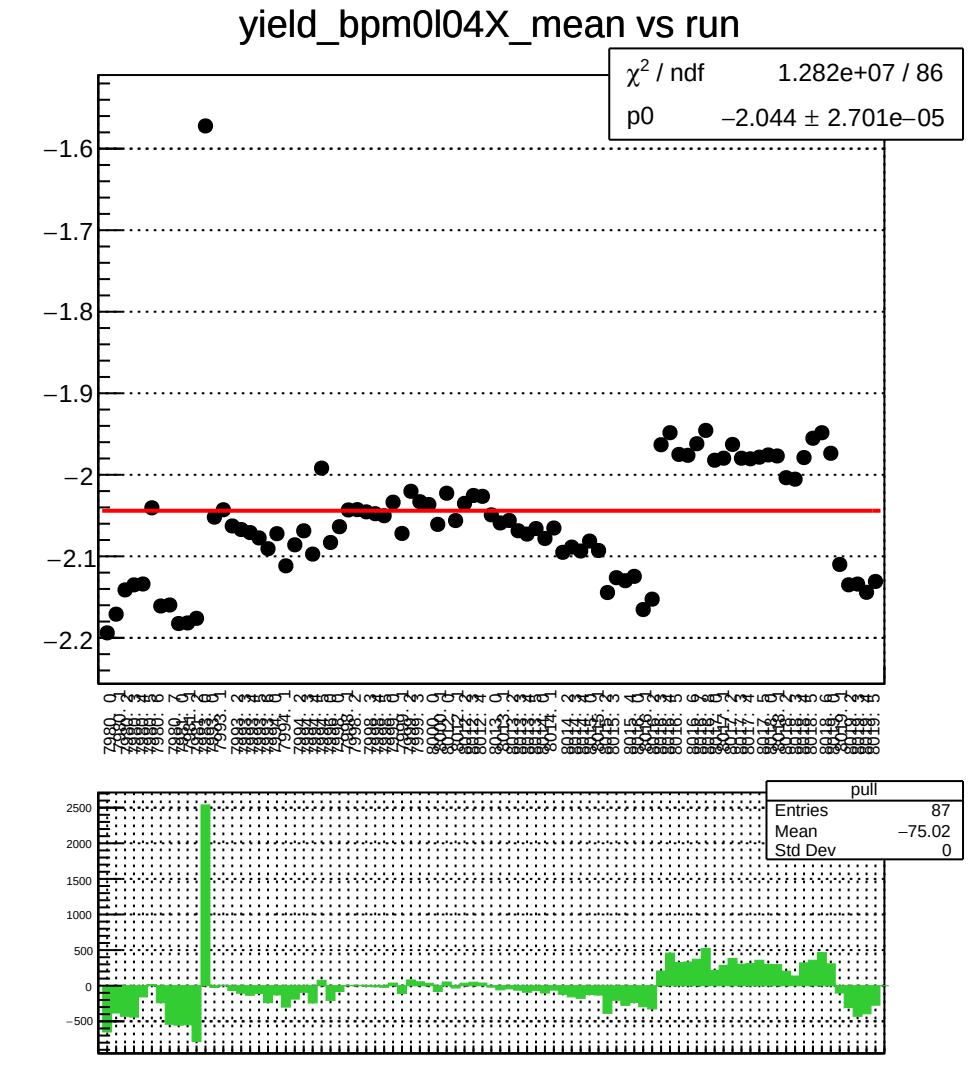

pull1D
Entries 87
Mean 0.2572
Std Dev 4.538
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

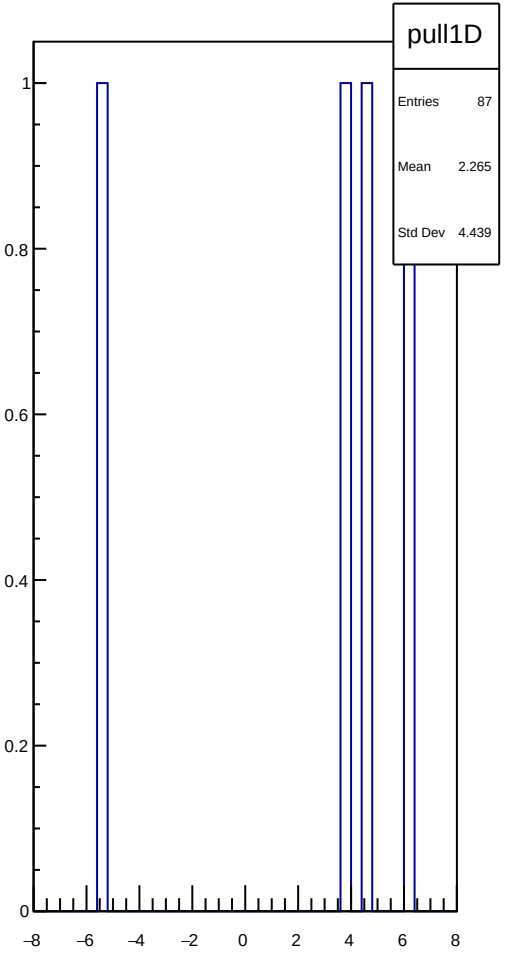

yield_bpm0l03X_rms vs run
χ^2 / ndf 1.124e+06 / 86
p0 0.006887 ± 8.631e−06
1
0.8
0.6
0.4
0.2

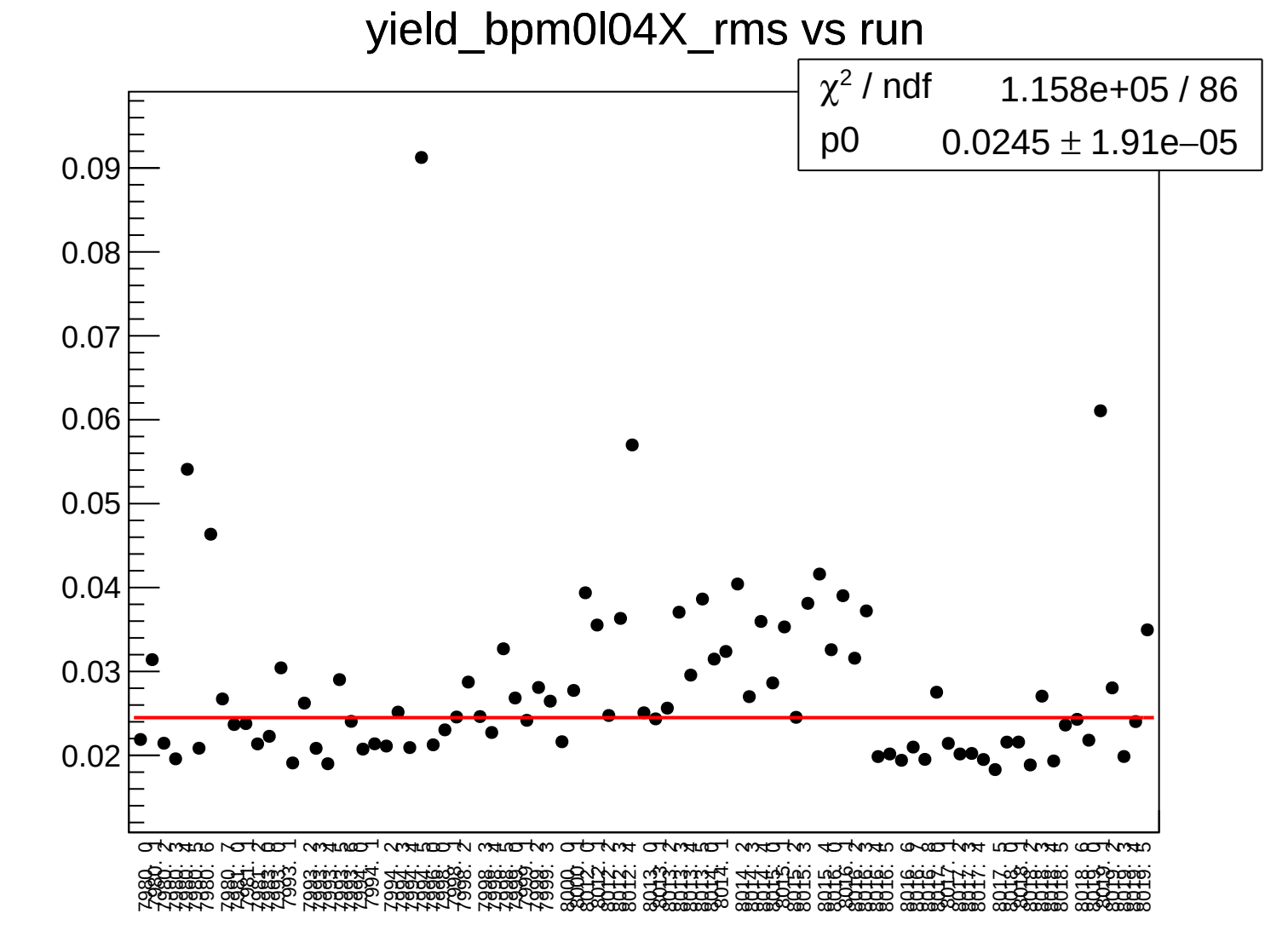

yield_bpm0l03Y_mean vs run
χ² / ndf 2.575e+06 / 86
p0 −0.5036 ± 1.394e−05
pull
Entries 87
Mean 38.72
Std Dev 16

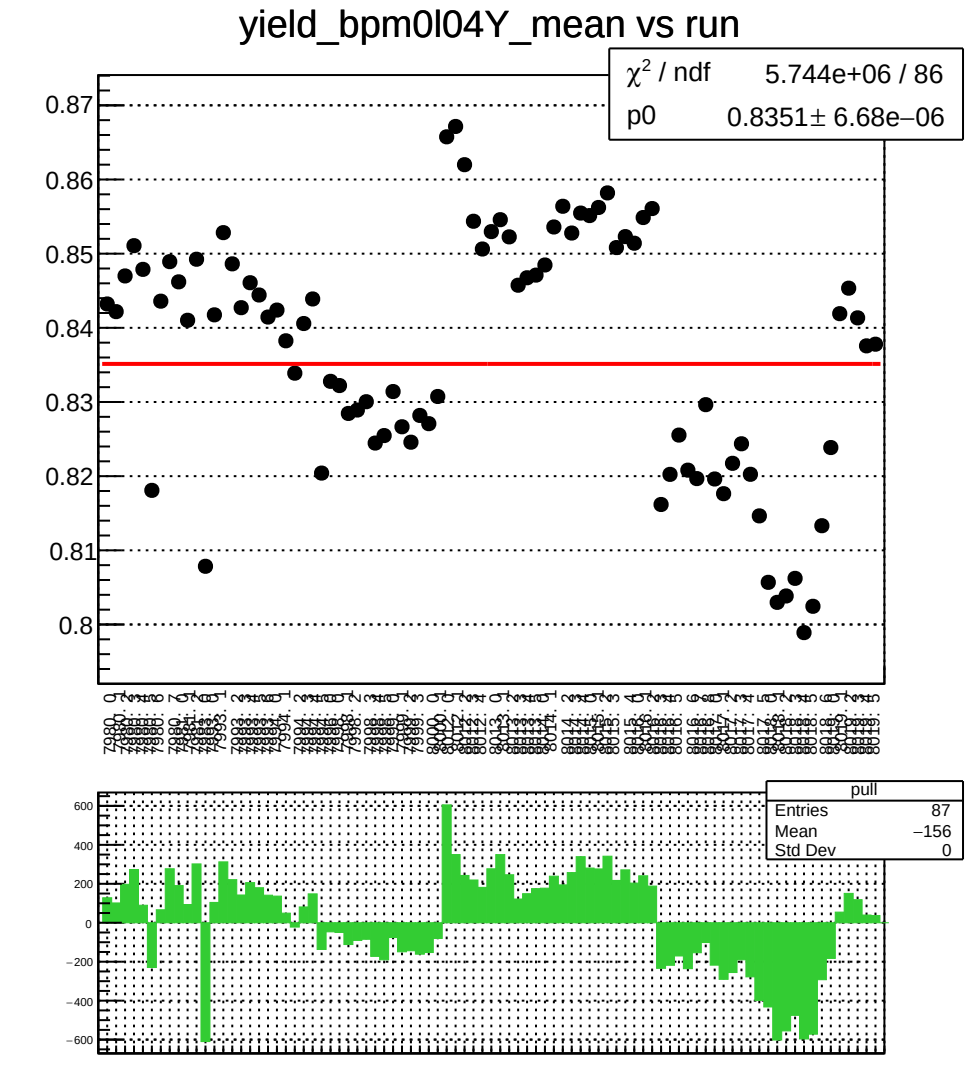

pull1D
Entries 87
Mean 6.69
Std Dev 1.164

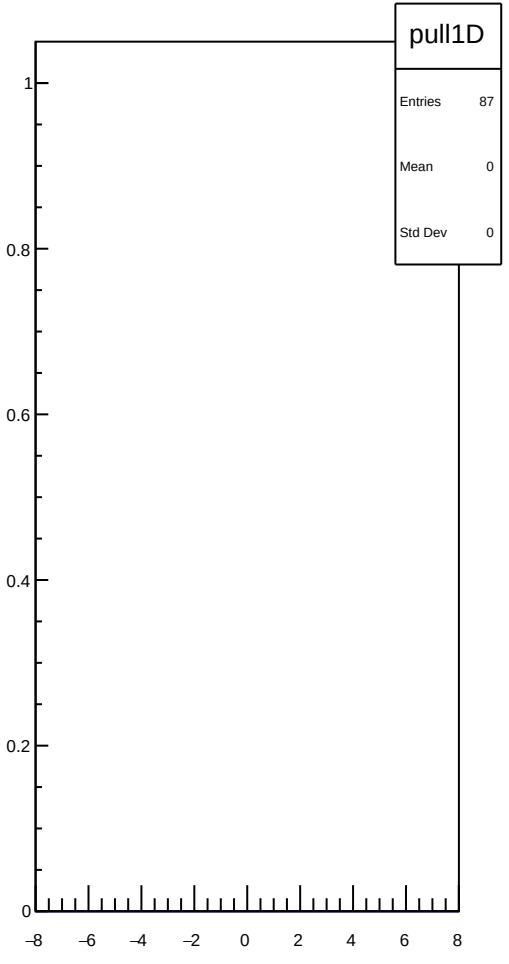

yield_bpm0l03Y_rms vs run
χ^2 / ndf 1.065e+06 / 86
p0 0.008217 ± 9.854e−06
1
0.8
0.6
0.4
0.2

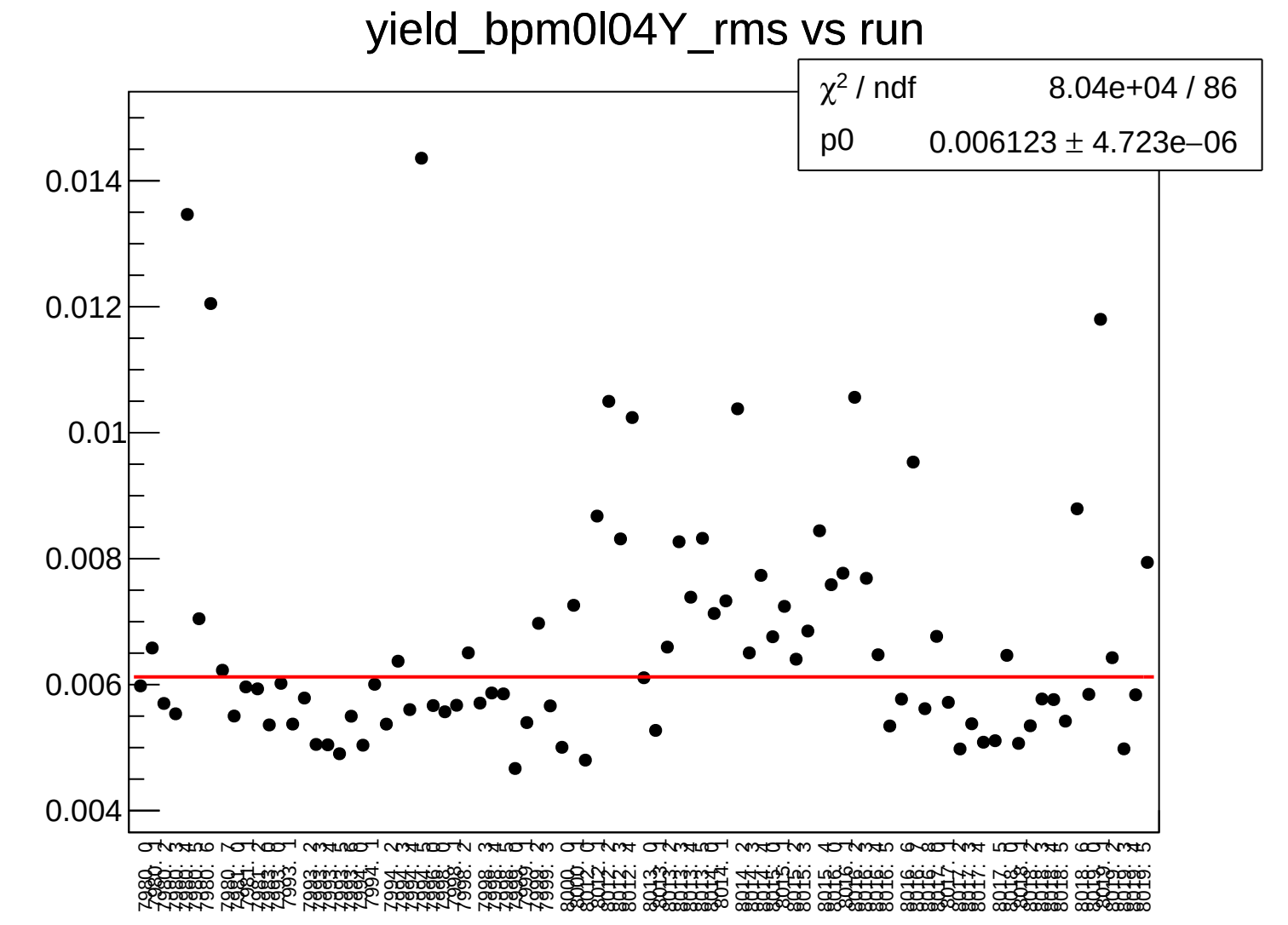

yield_bpm0l04X_mean vs run
χ² / ndf 1.282e+07 / 86
p0 −2.044 ± 2.701e−05
−1.6
−1.7
−1.8
−1.9
−2
−2.1
−2.2
pull
Entries 87
Mean −75.02
Std Dev 0
2500
2000
1500
1000
500
0
−500

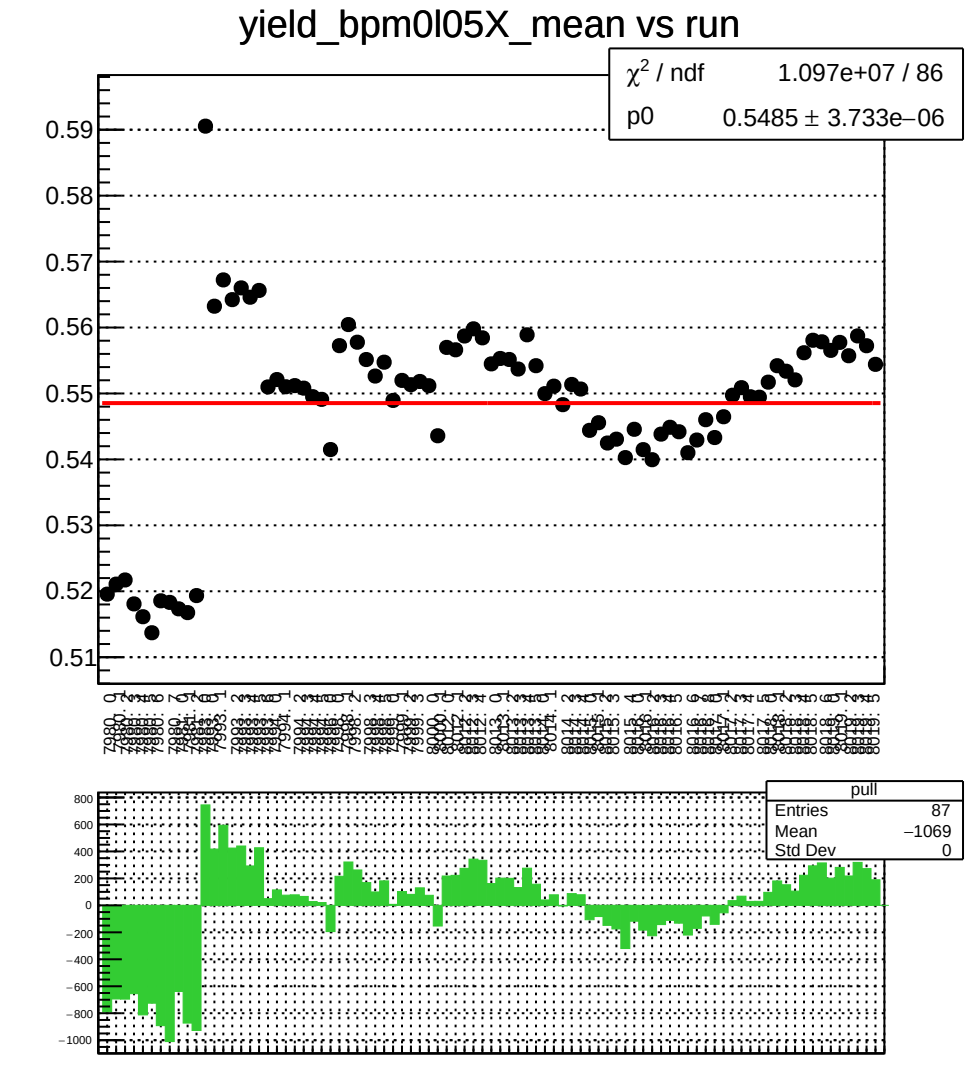

pull1D
Entries 87
Mean 2.265
Std Dev 4.439
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

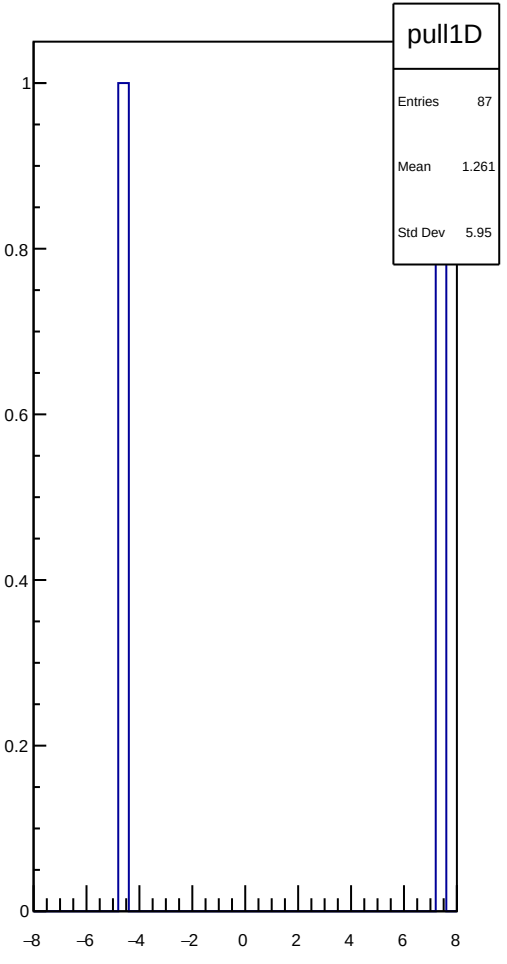

yield_bpm0l04X_rms vs run
χ^2 / ndf 1.158e+05 / 86
p0 0.0245 ± 1.91e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

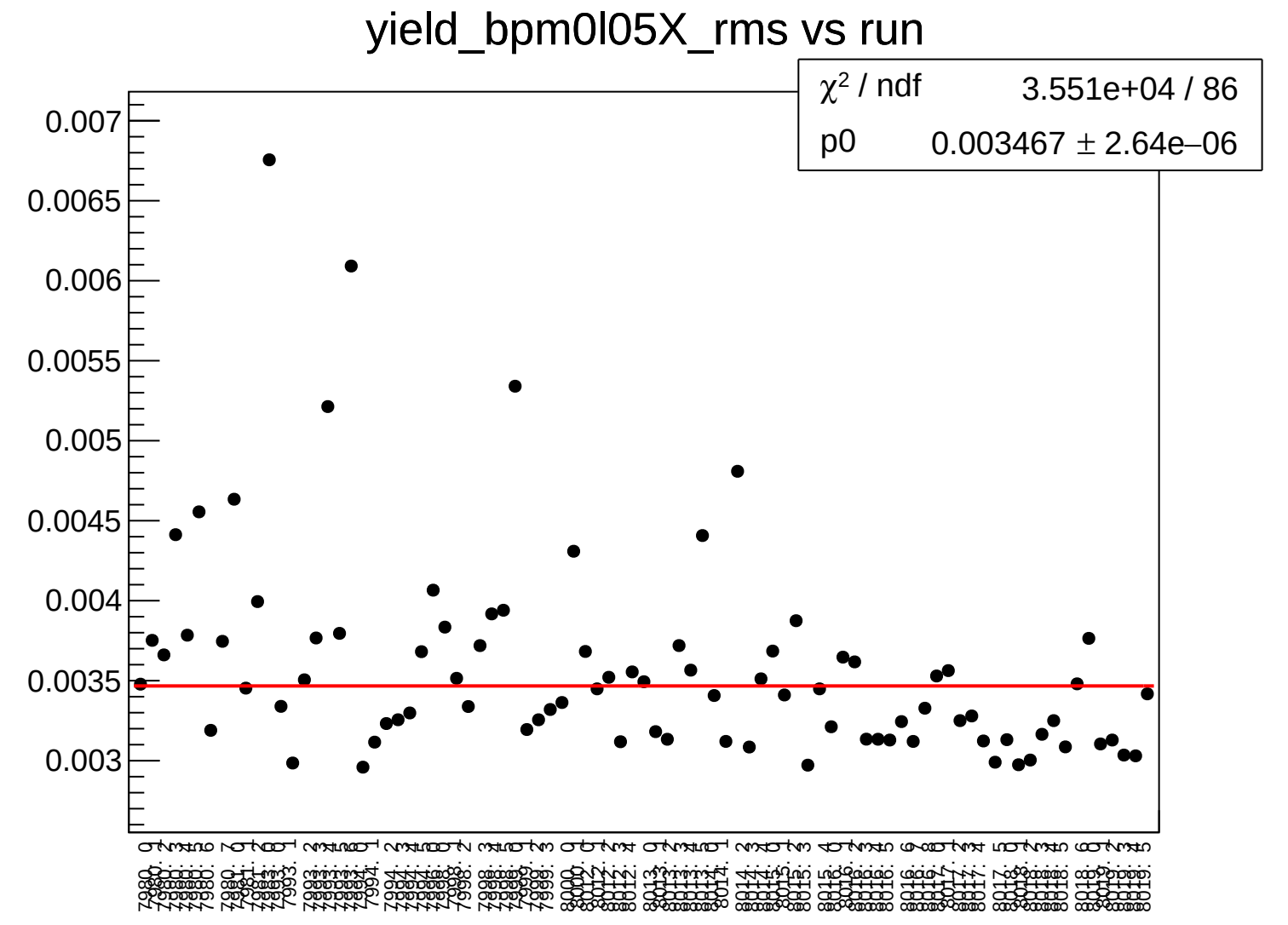

yield_bpm0l04Y_mean vs run
χ² / ndf 5.744e+06 / 86
p0 0.8351± 6.68e−06
0.87
0.86
0.85
0.84
0.83
0.82
0.81
0.8
pull
Entries 87
Mean −156
Std Dev 0
600
400
200
0
−200
−400
−600

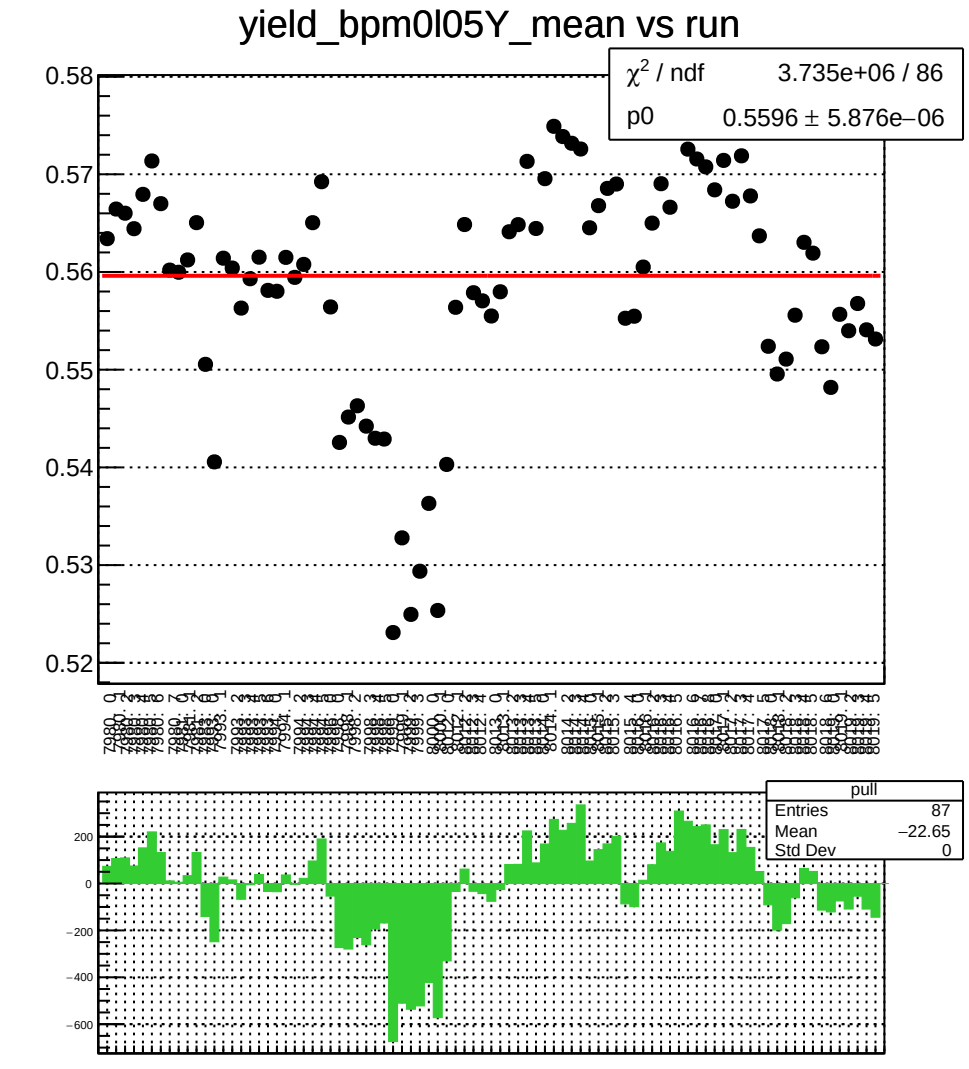

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

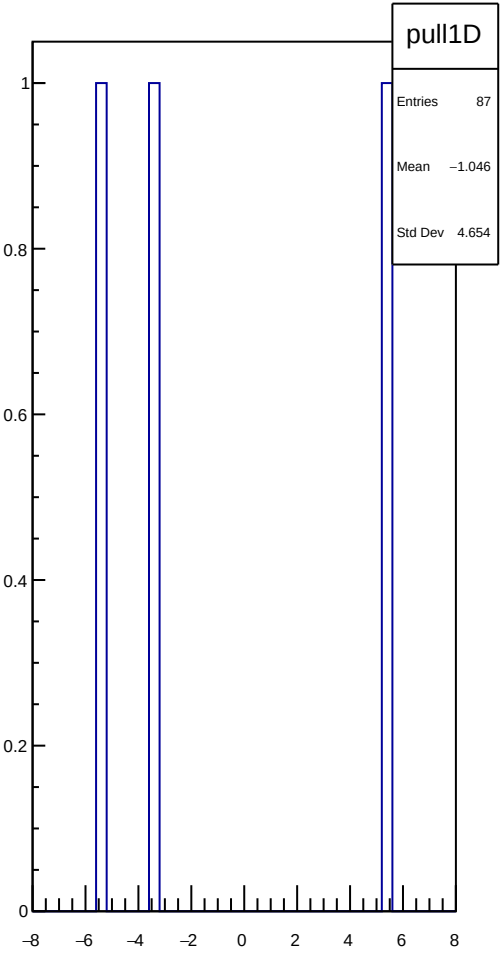

yield_bpm0l04Y_rms vs run
χ^2 / ndf 8.04e+04 / 86
p0 0.006123 ± 4.723e−06
0.014
0.012
0.01
0.008
0.006
0.004

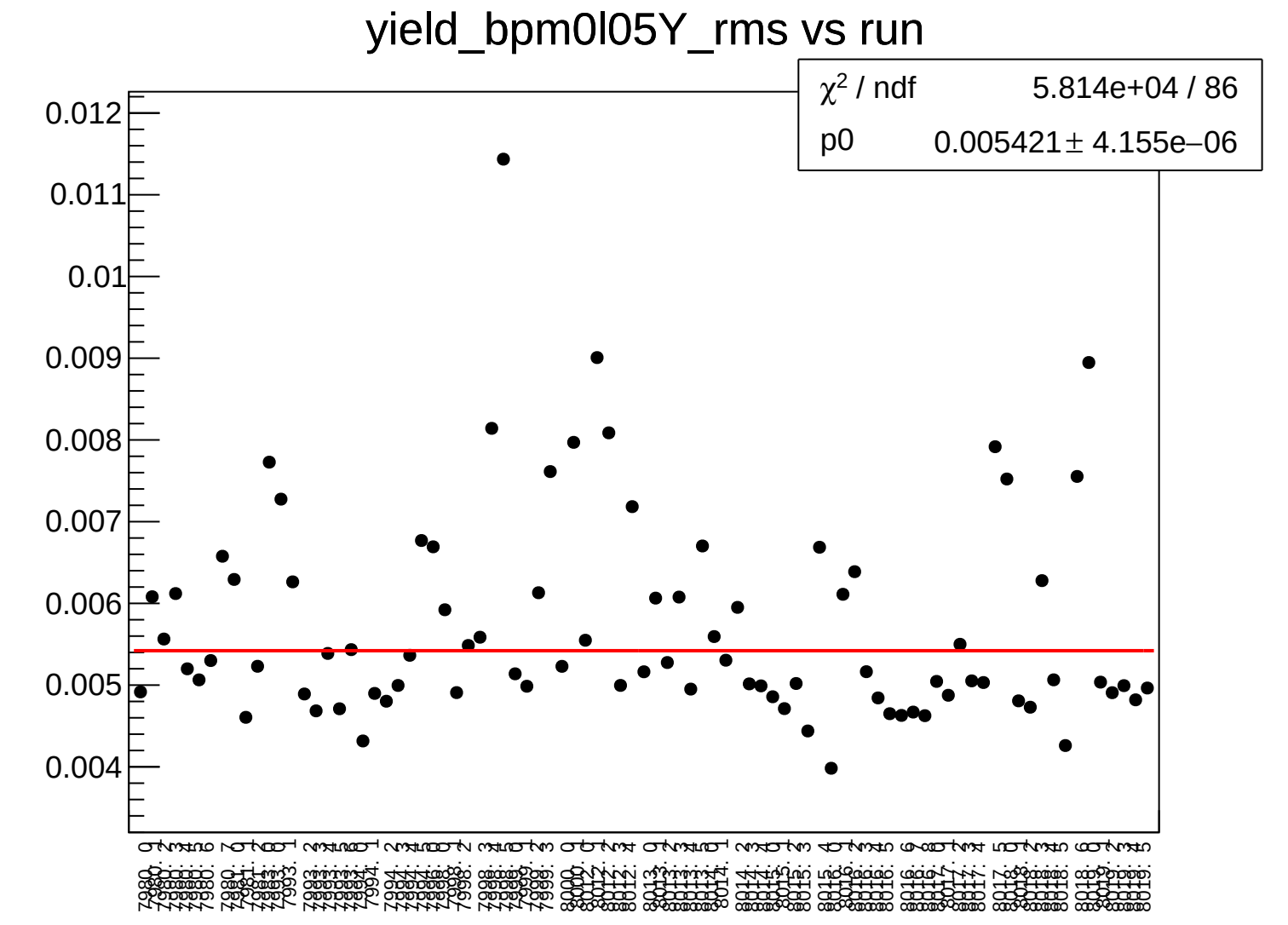

yield_bpm0l05X_mean vs run
χ² / ndf 1.097e+07 / 86
p0 0.5485 ± 3.733e−06
0.59
0.58
0.57
0.56
0.55
0.54
0.53
0.52
0.51
pull
Entries 87
Mean −1069
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

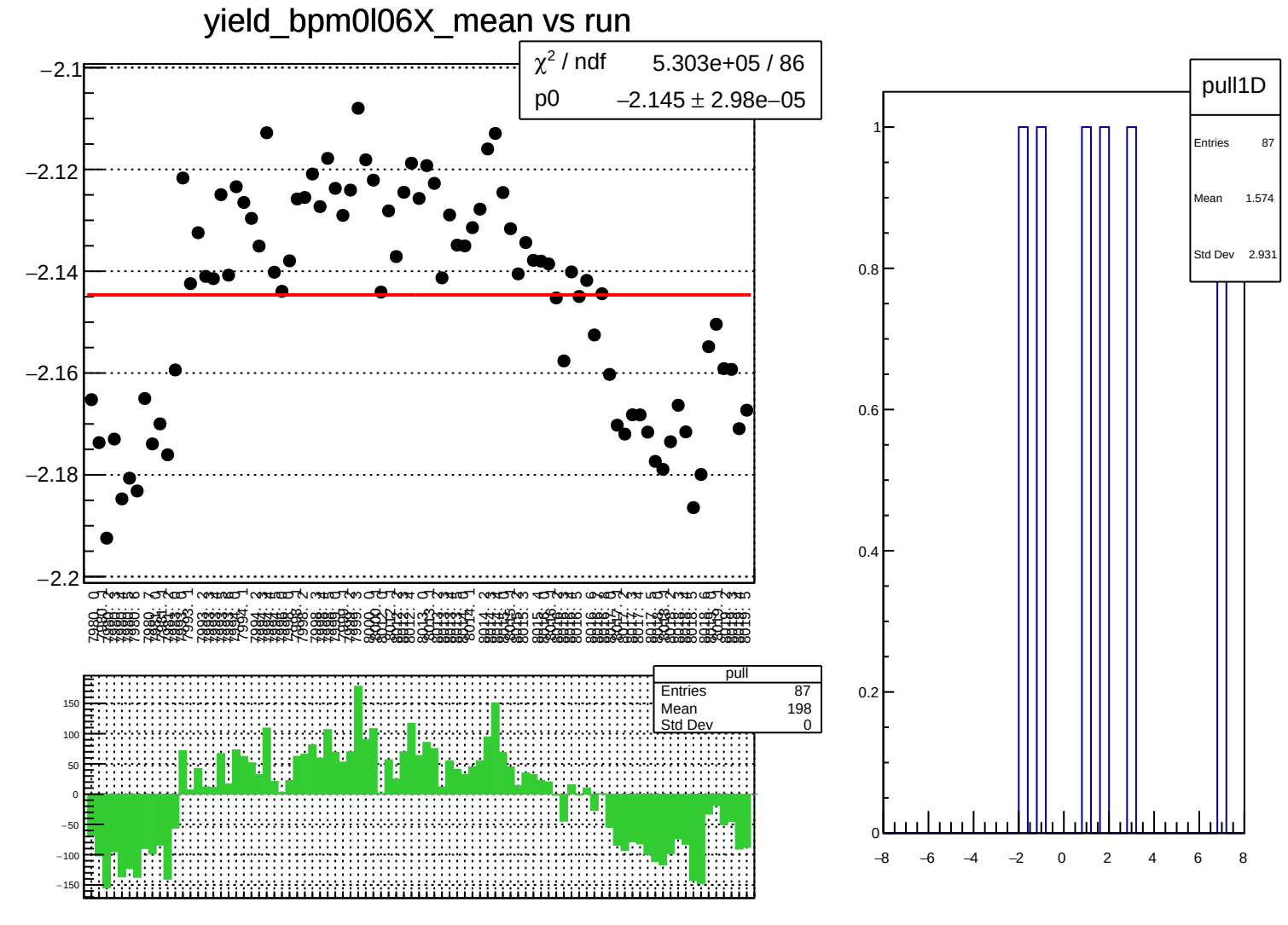

pull1D
Entries 87
Mean 1.261
Std Dev 5.95
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

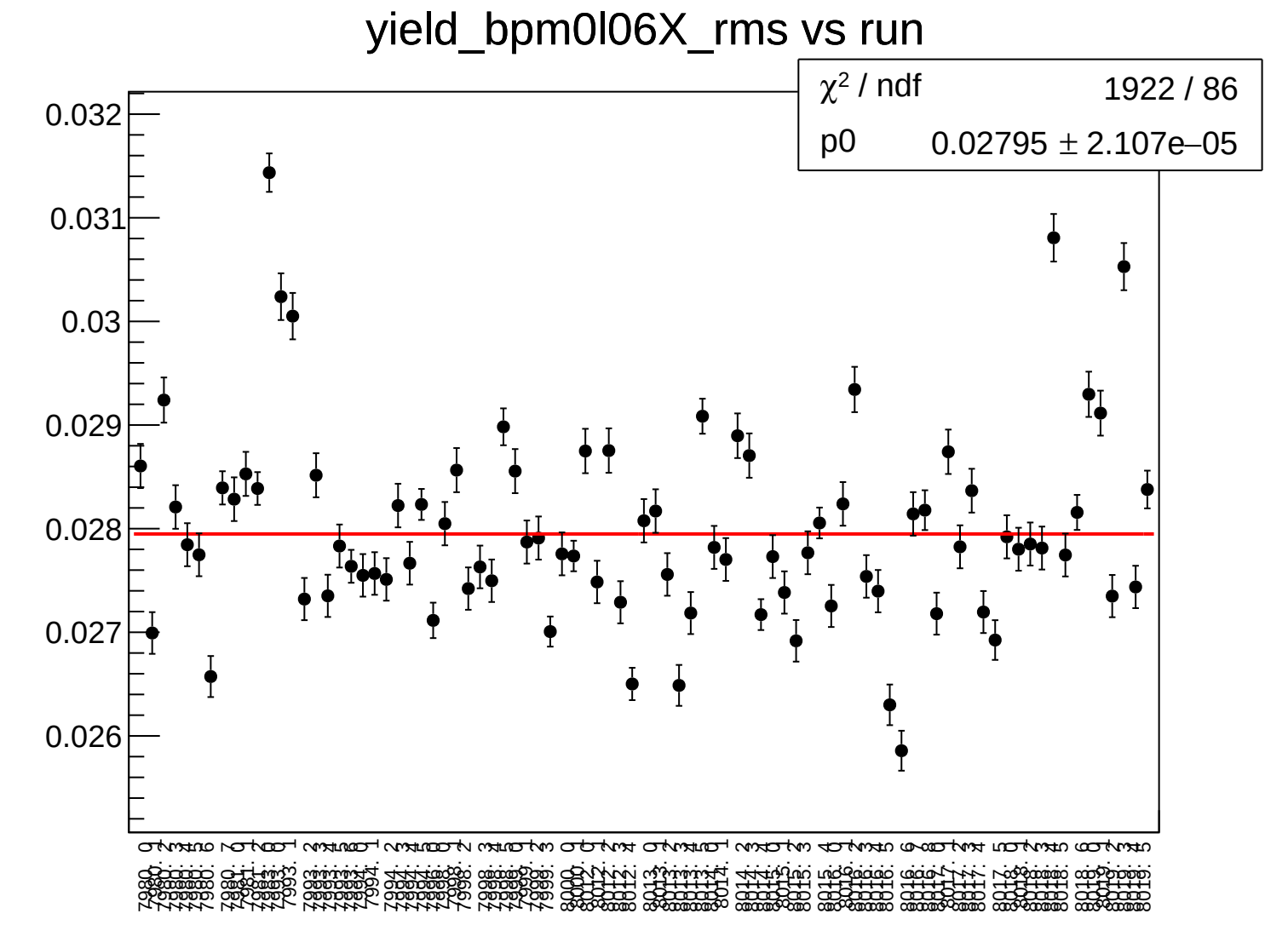

yield_bpm0l05X_rms vs run
χ² / ndf 3.551e+04 / 86
p0 0.003467 ± 2.64e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

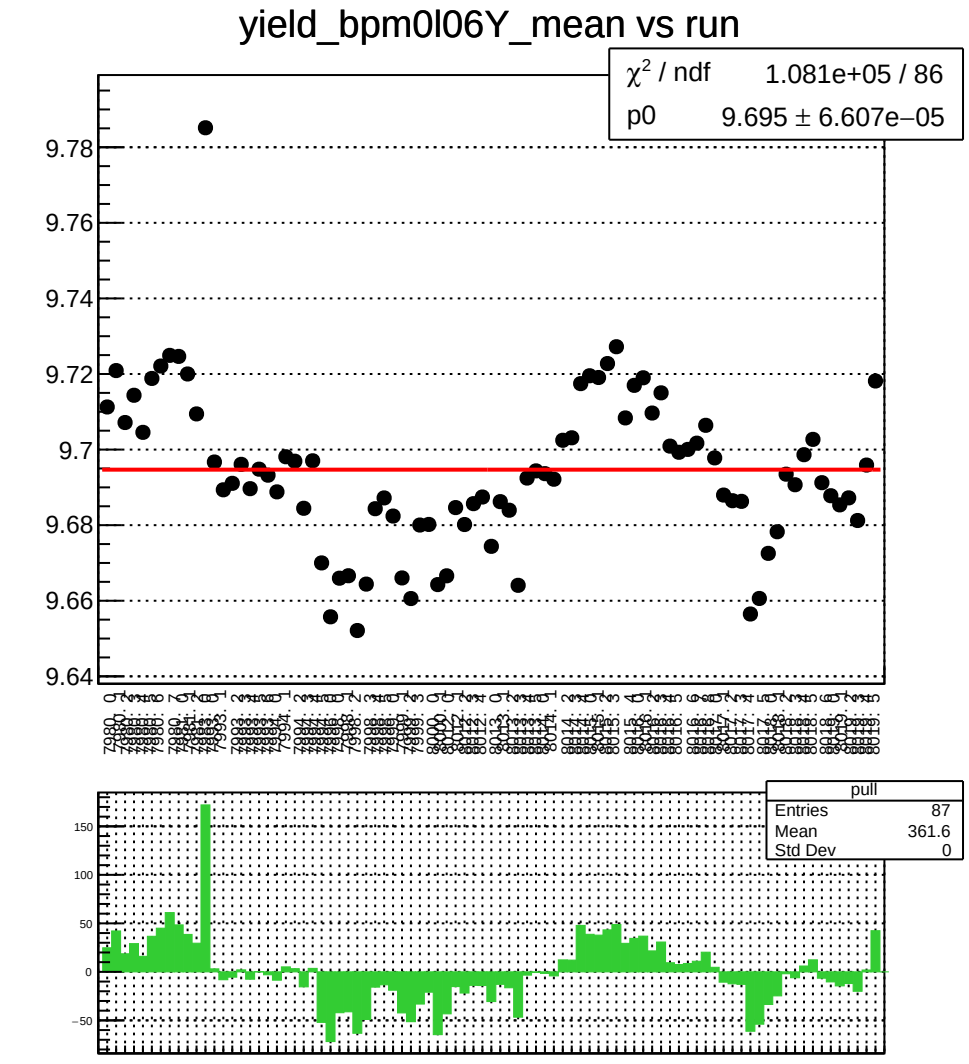

yield_bpm0l05Y_mean vs run
χ² / ndf 3.735e+06 / 86
p0 0.5596 ± 5.876e−06
0.58
0.57
0.56
0.55
0.54
0.53
0.52
pull
Entries 87
Mean −22.65
Std Dev 0
200
0
−200
−400
−600

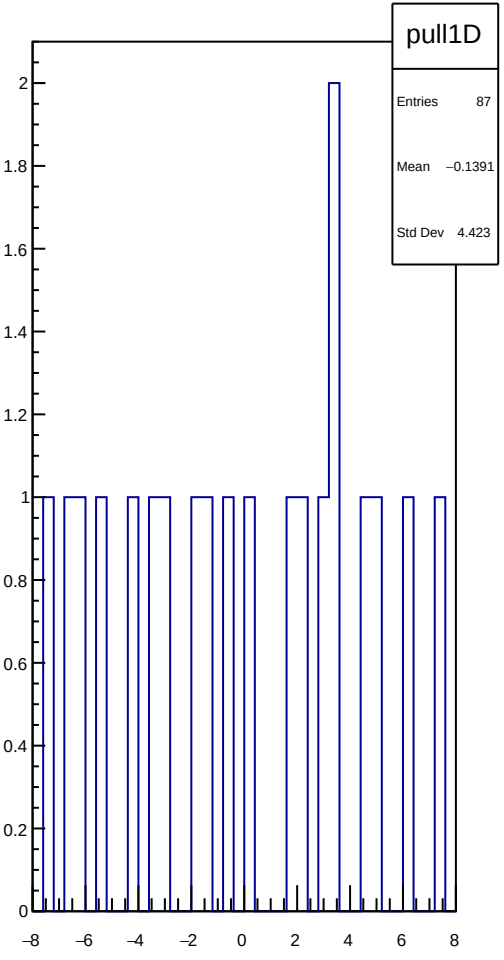

pull1D
Entries 87
Mean −1.046
Std Dev 4.654
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

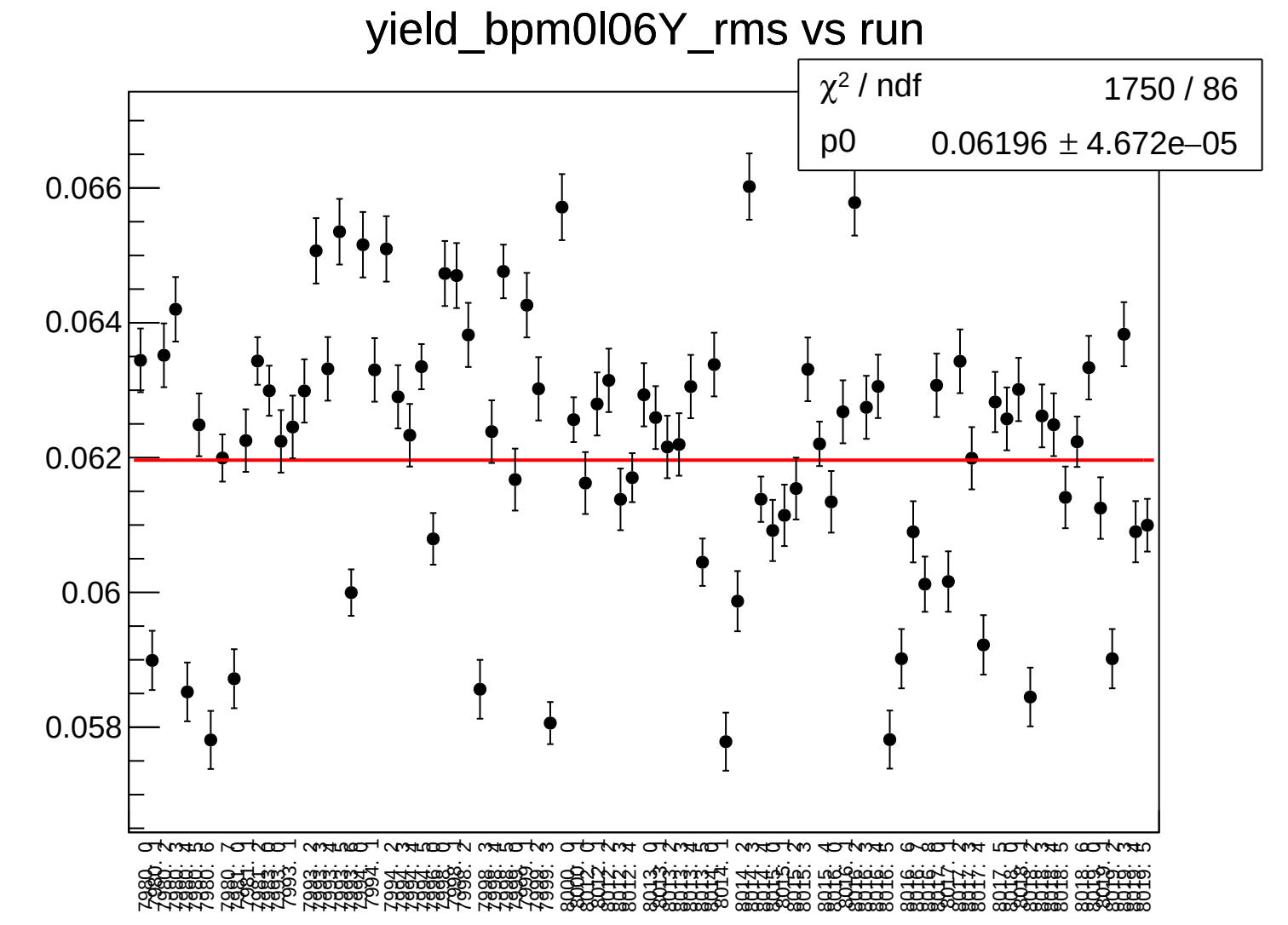

yield_bpm0l05Y_rms vs run
χ² / ndf 5.814e+04 / 86
p0 0.005421 ± 4.155e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

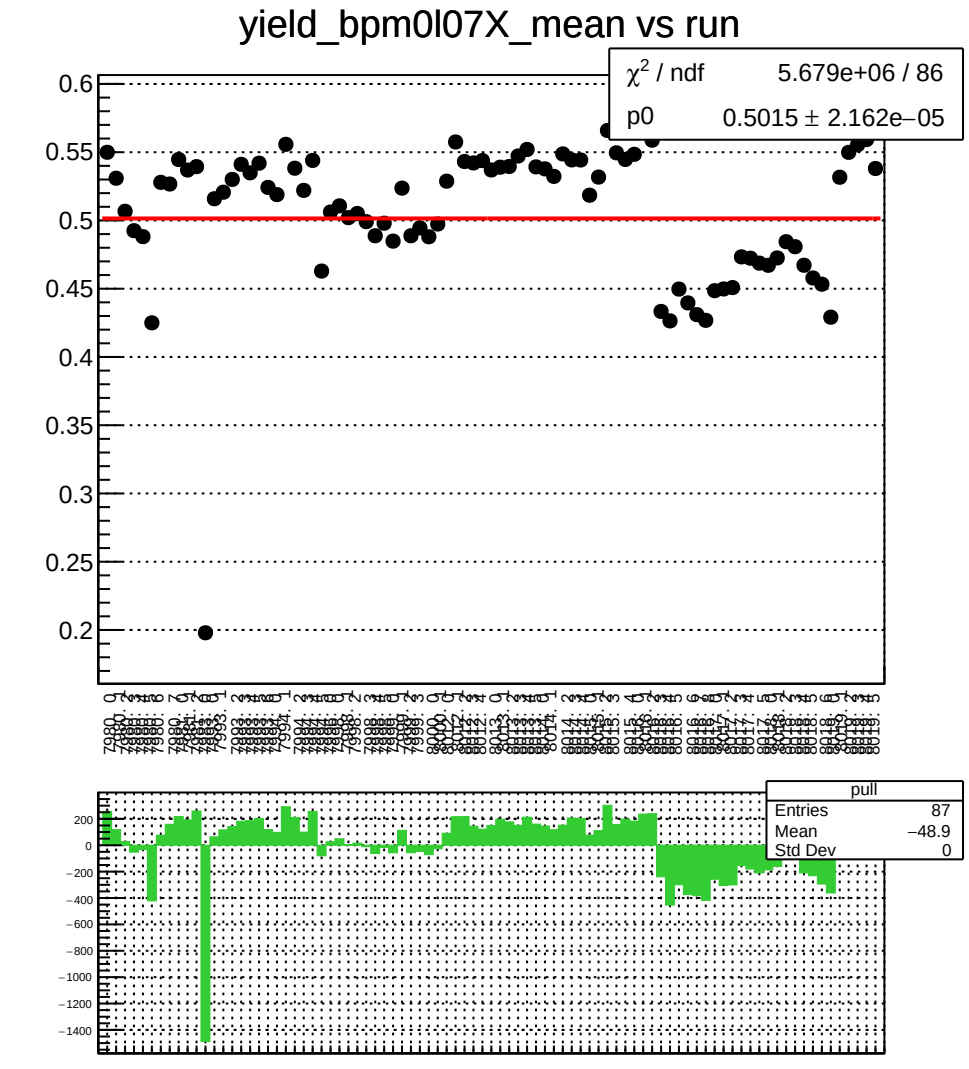

yield_bpm0l06X_mean vs run
χ² / ndf 5.303e+05 / 86
p0 −2.145 ± 2.98e−05
−2.1
−2.12
−2.14
−2.16
−2.18
−2.2
pull
Entries 87
Mean 198
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 87
Mean 1.574
Std Dev 2.931
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

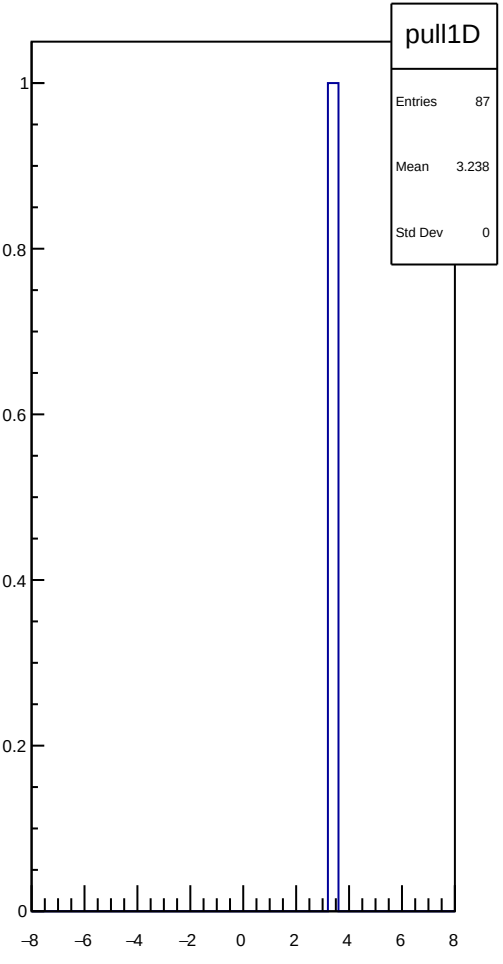

yield_bpm0l06X_rms vs run
χ² / ndf 1922 / 86
p0 0.02795 ± 2.107e–05
0.032
0.031
0.03
0.029
0.028
0.027
0.026

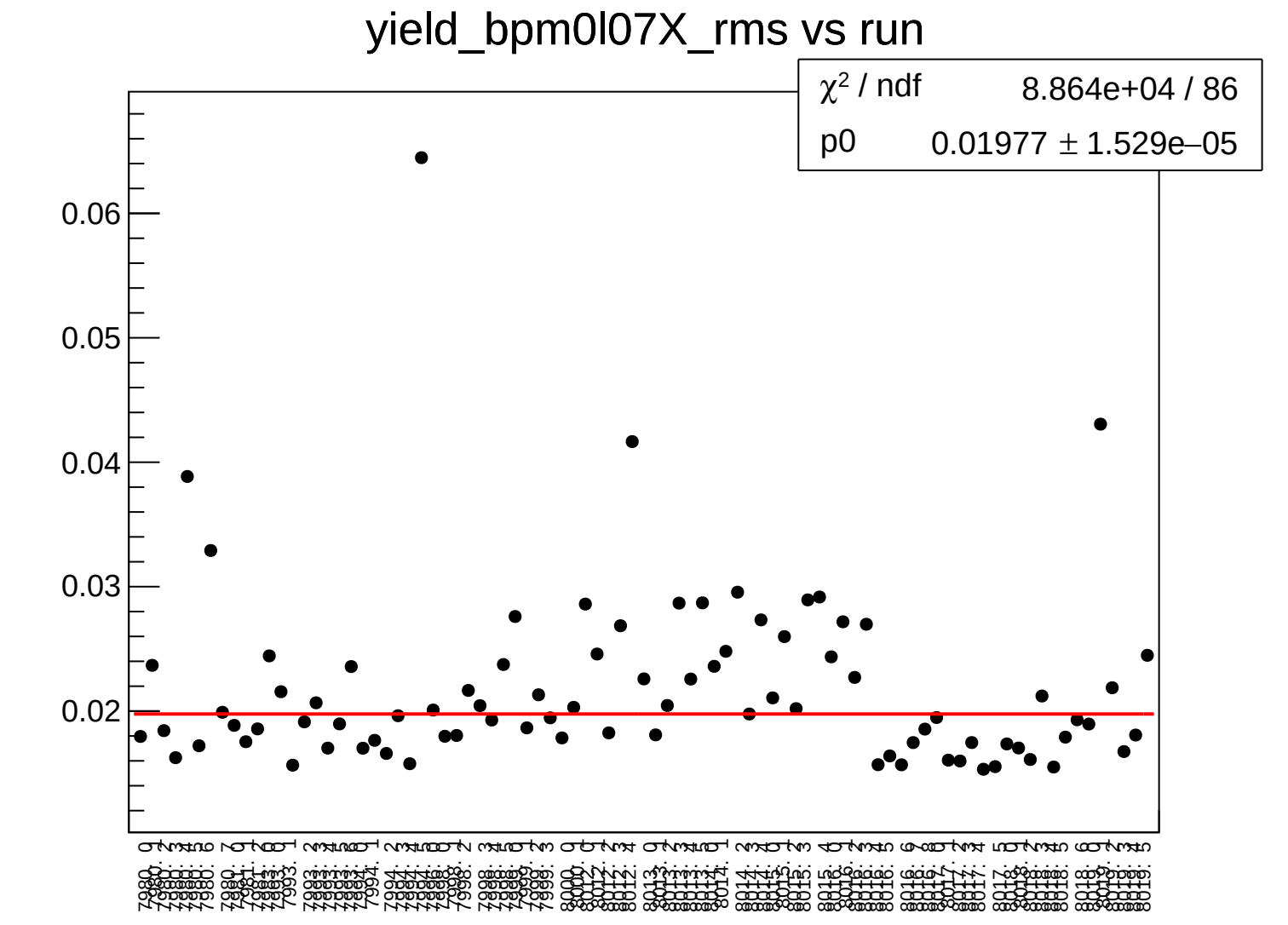

yield_bpm0l06Y_mean vs run
χ² / ndf 1.081e+05 / 86
p0 9.695 ± 6.607e−05
9.78
9.76
9.74
9.72
9.7
9.68
9.66
9.64
pull
Entries 87
Mean 361.6
Std Dev 0
150
100
50
0
−50

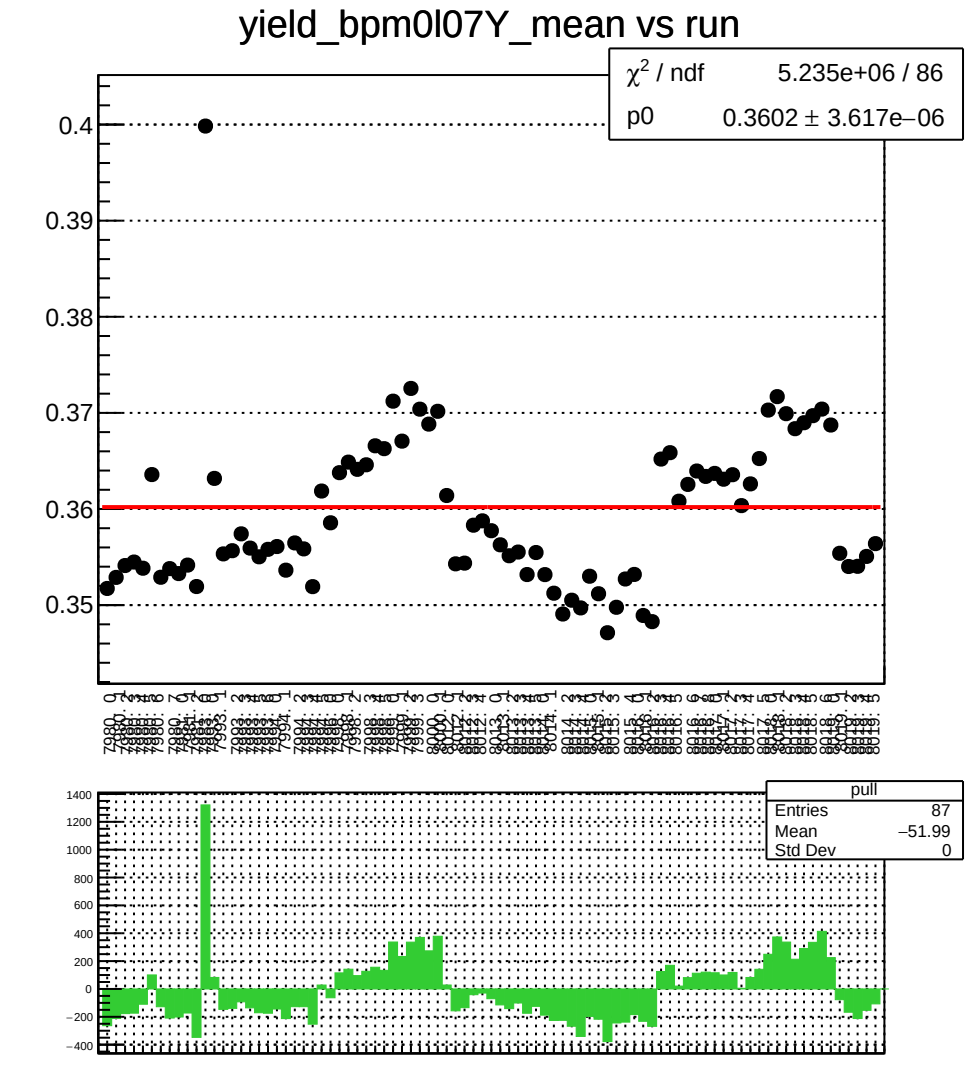

pull1D
Entries 87
Mean −0.1391
Std Dev 4.423
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

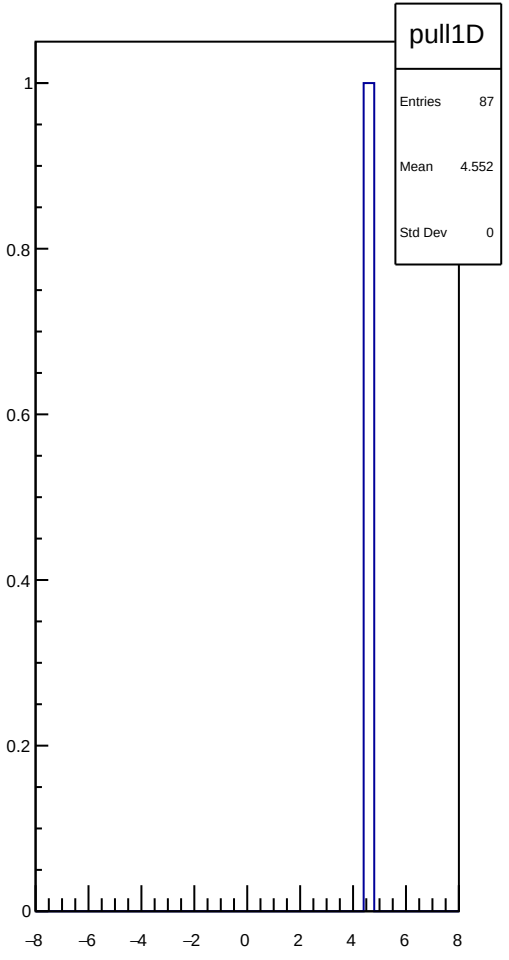

yield_bpm0l06Y_rms vs run
χ² / ndf 1750 / 86
p0 0.06196 ± 4.672e–05
0.066
0.064
0.062
0.06
0.058

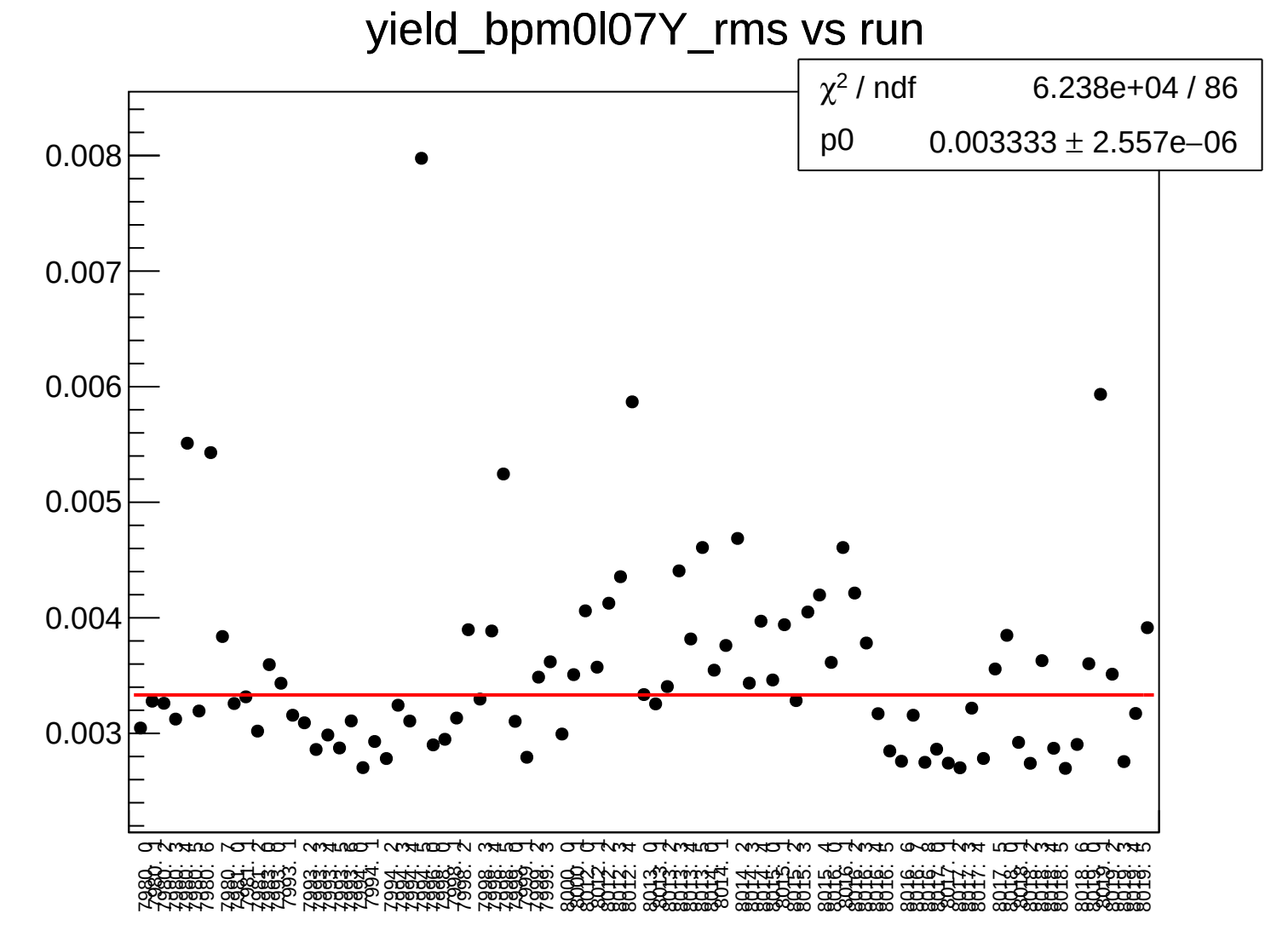

yield_bpm0l07X_mean vs run
χ² / ndf 5.679e+06 / 86
p0 0.5015 ± 2.162e−05
pull
Entries 87
Mean −48.9
Std Dev 0

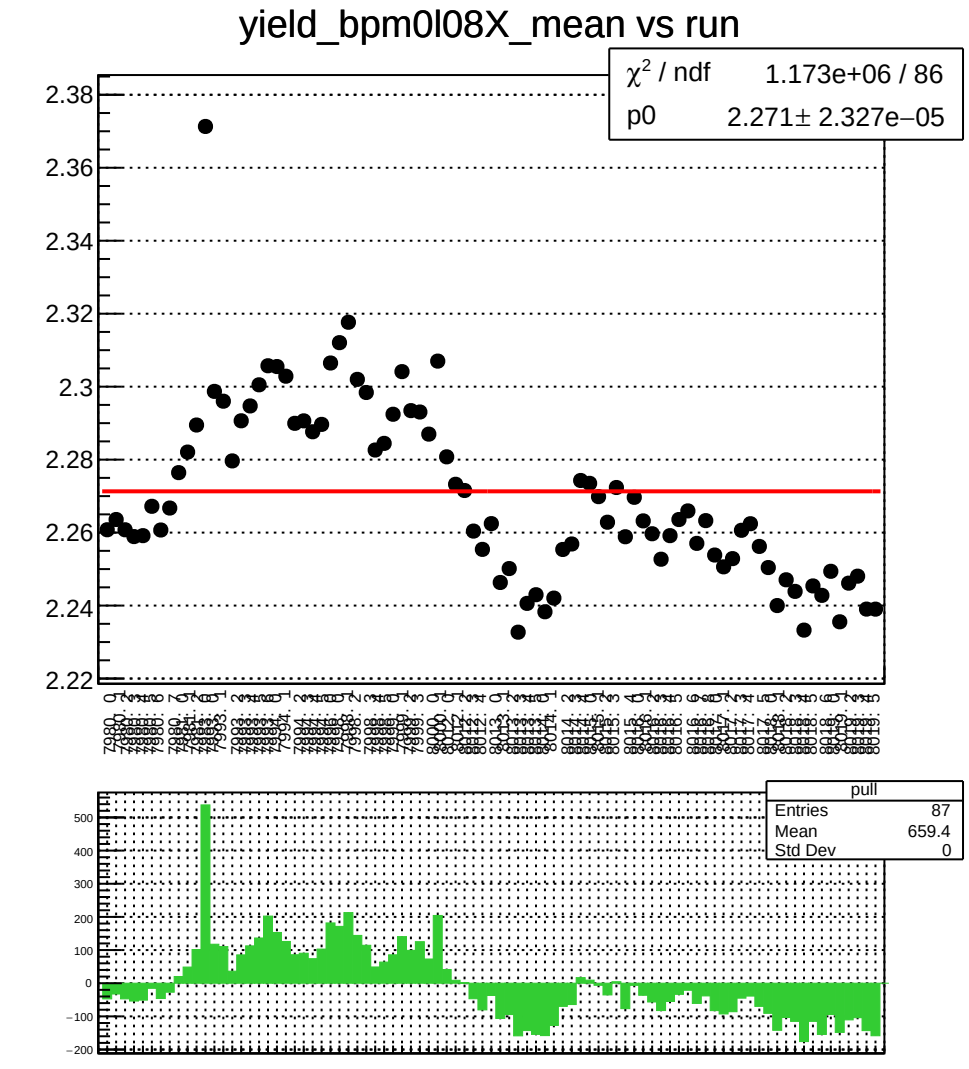

pull1D
Entries 87
Mean 3.238
Std Dev 0

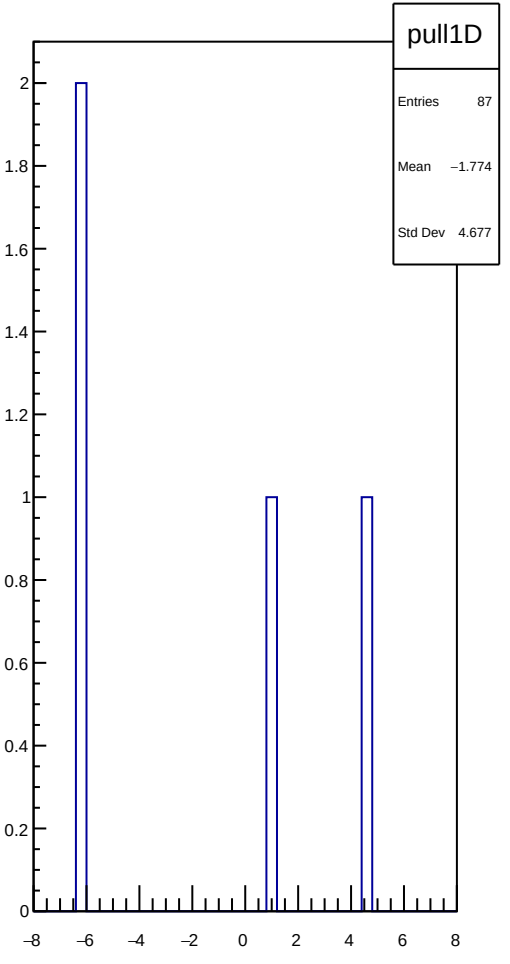

yield_bpm0l07X_rms vs run
χ² / ndf 8.864e+04 / 86
p0 0.01977 ± 1.529e–05
0.06
0.05
0.04
0.03
0.02

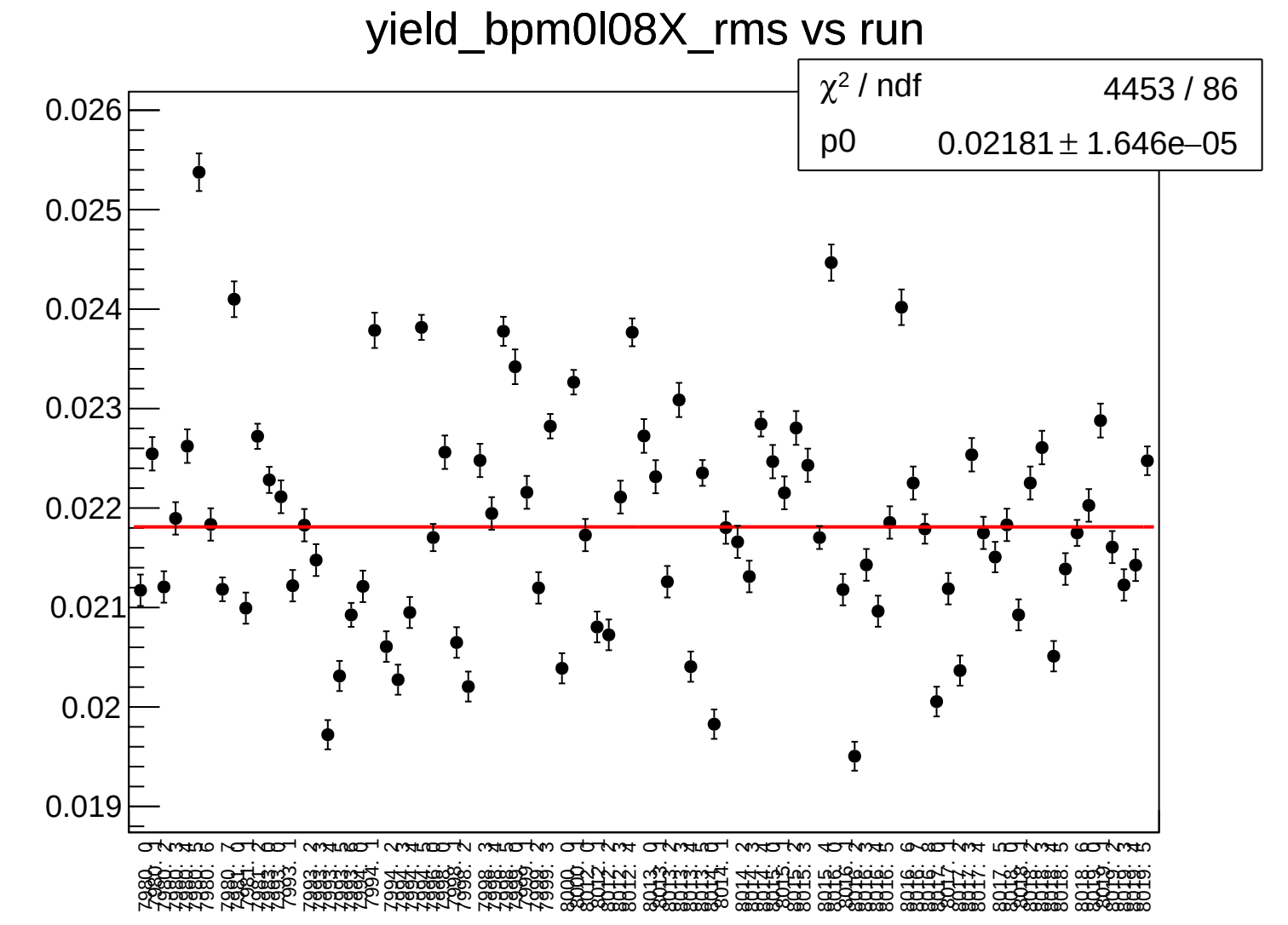

yield_bpm0l07Y_mean vs run
χ² / ndf 5.235e+06 / 86
p0 0.3602 ± 3.617e−06
0.4
0.39
0.38
0.37
0.36
0.35
pull
Entries 87
Mean −51.99
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400

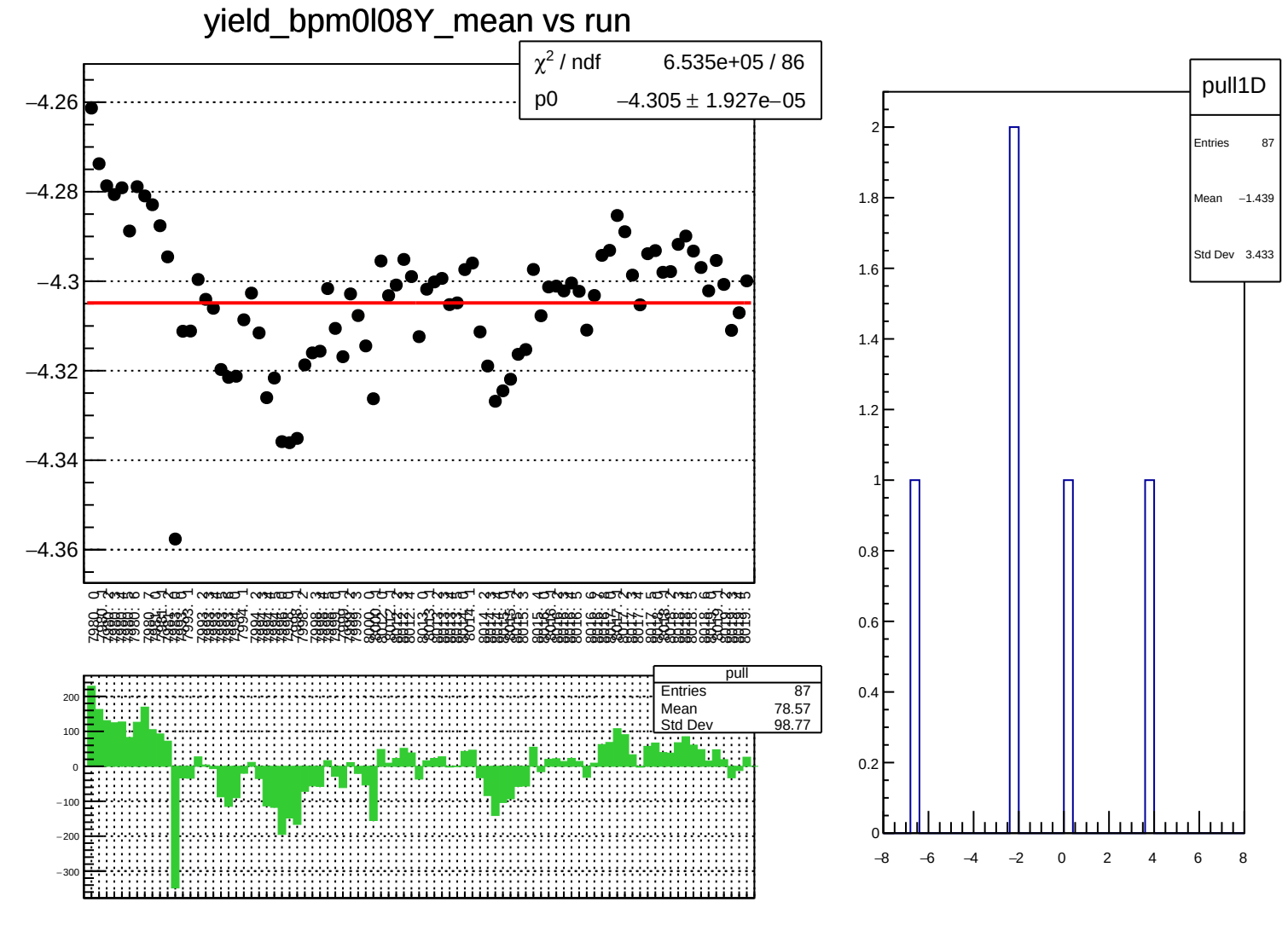

pull1D
Entries 87
Mean 4.552
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

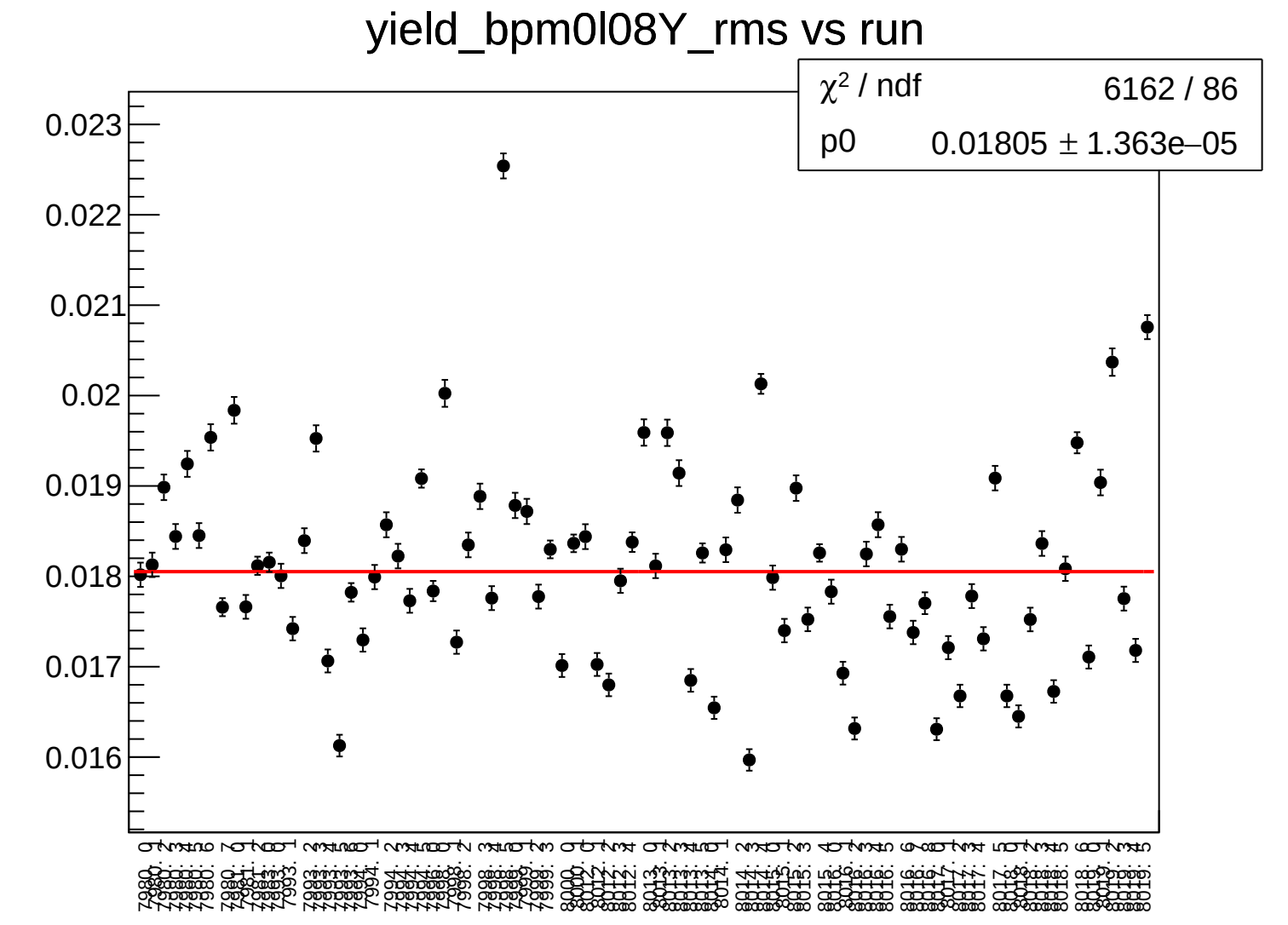

yield_bpm0l07Y_rms vs run
χ² / ndf 6.238e+04 / 86
p0 0.003333 ± 2.557e−06
0.008
0.007
0.006
0.005
0.004
0.003

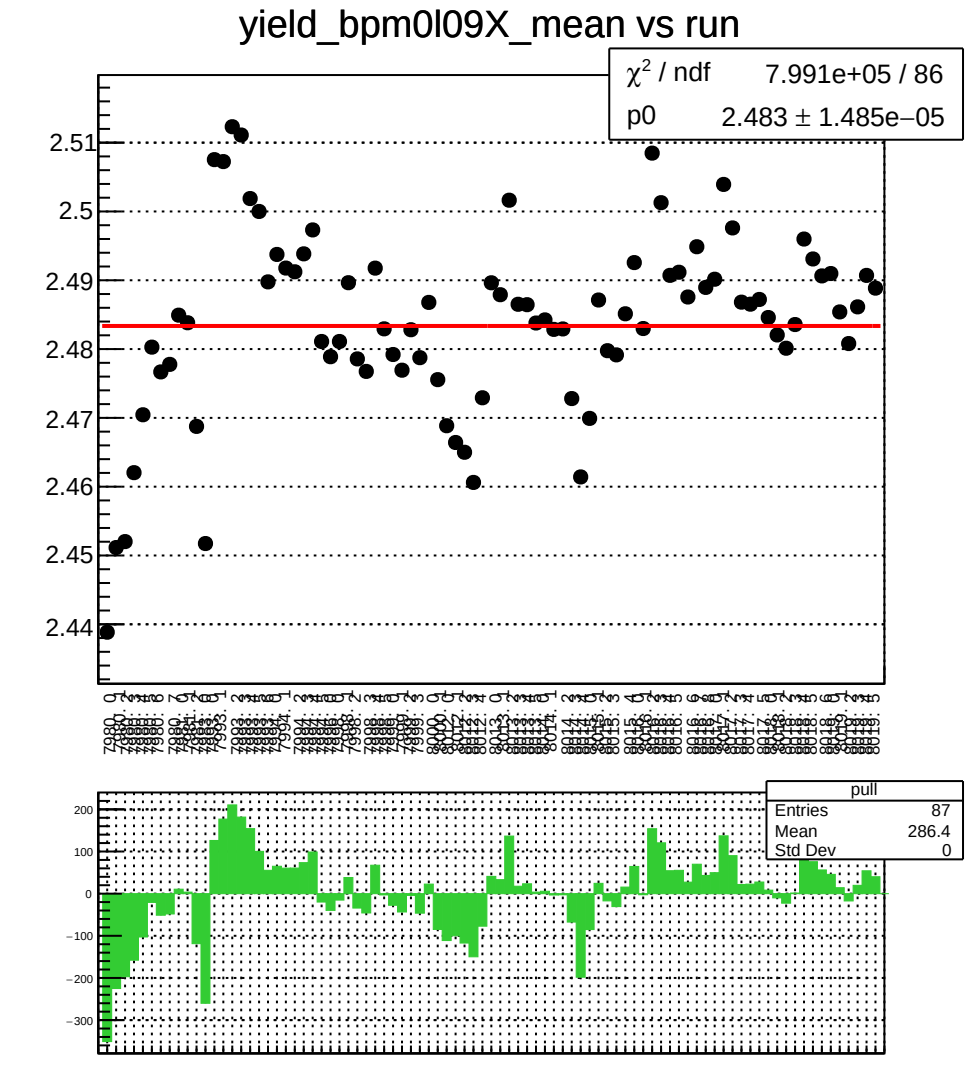

yield_bpm0l08X_mean vs run
χ² / ndf 1.173e+06 / 86
p0 2.271± 2.327e−05
2.38
2.36
2.34
2.32
2.3
2.28
2.26
2.24
2.22
pull
Entries 87
Mean 659.4
Std Dev 0
500
400
300
200
100
0
−100
−200

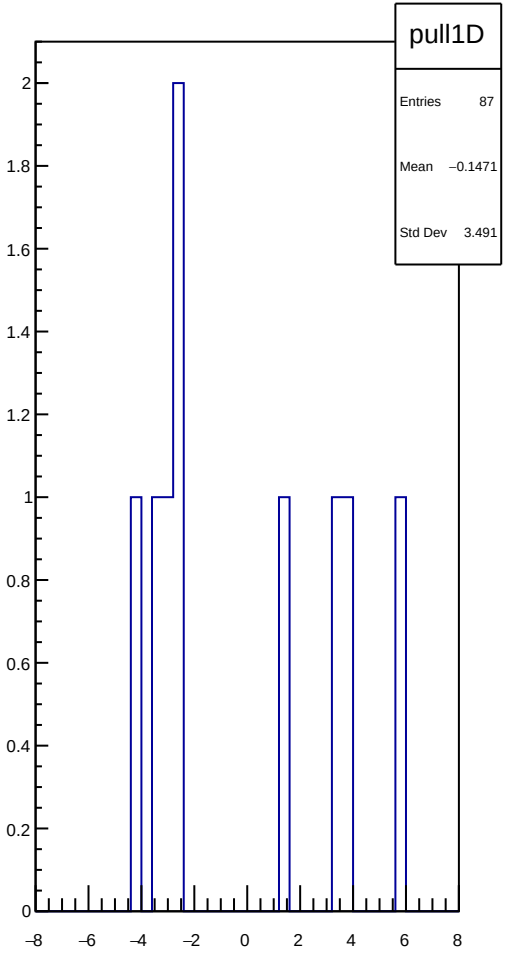

pull1D
Entries 87
Mean −1.774
Std Dev 4.677
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

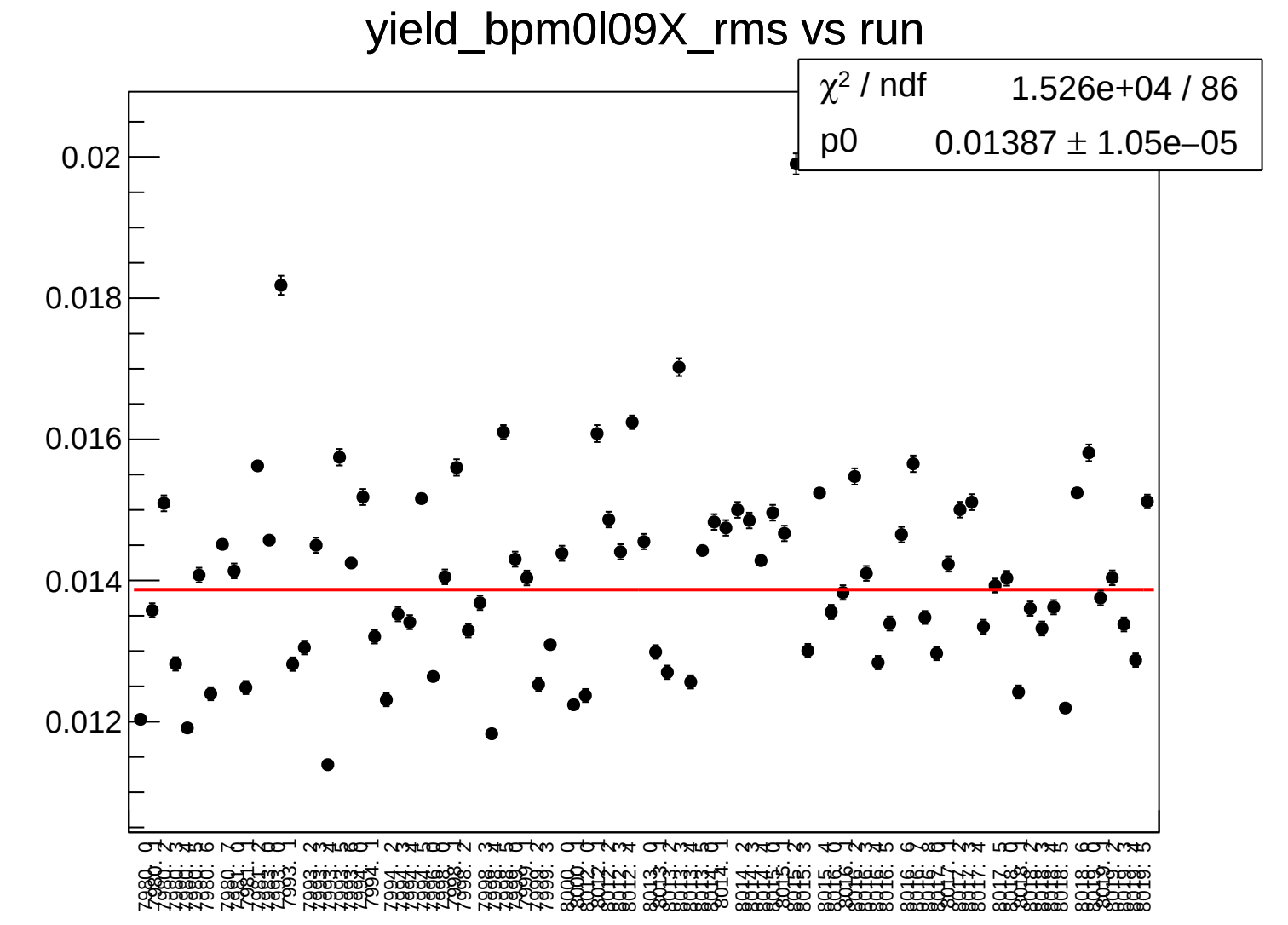

yield_bpm0l08X_rms vs run
χ² / ndf 4453 / 86
p0 0.02181 ± 1.646e–05
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019

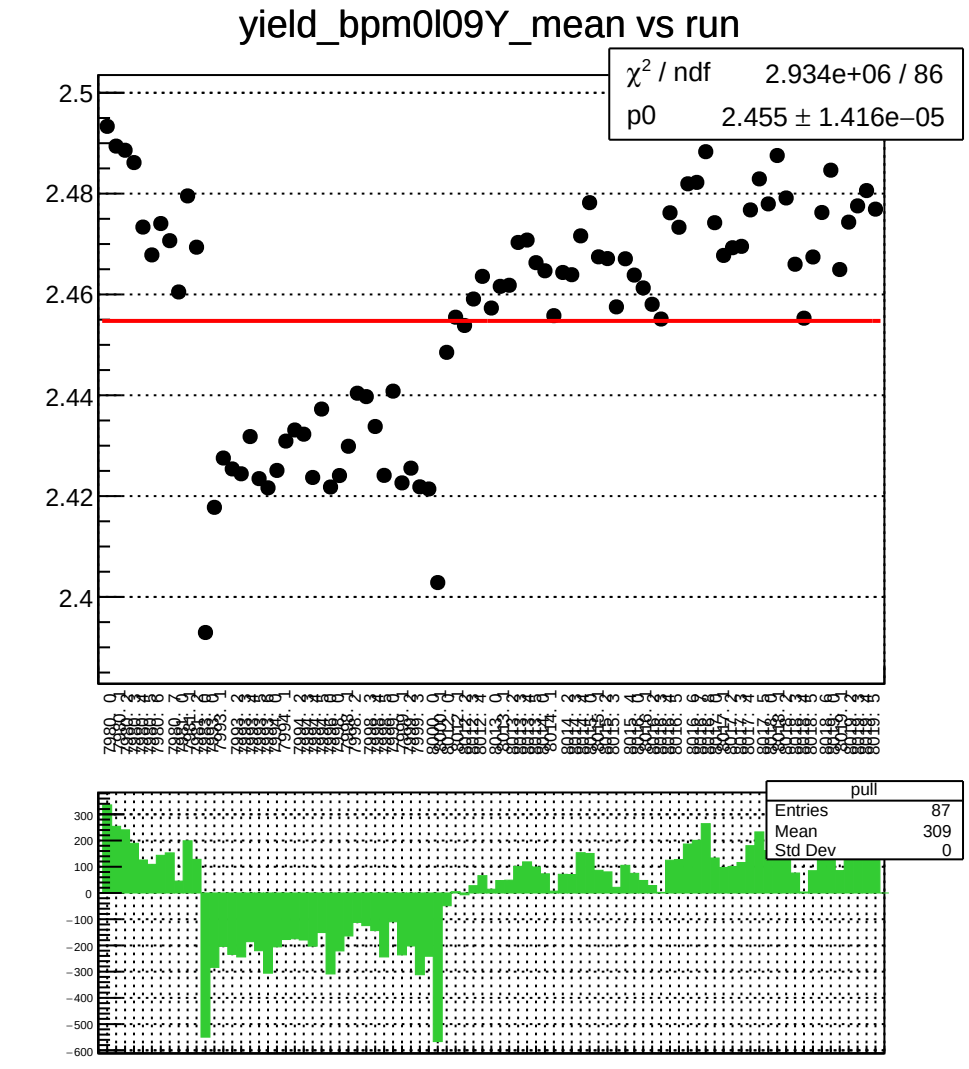

yield_bpm0l08Y_mean vs run
χ² / ndf 6.535e+05 / 86
p0 −4.305 ± 1.927e−05
−4.26
−4.28
−4.3
−4.32
−4.34
−4.36
pull
Entries 87
Mean 78.57
Std Dev 98.77
200
100
0
−100
−200
−300
pull1D
Entries 87
Mean −1.439
Std Dev 3.433
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

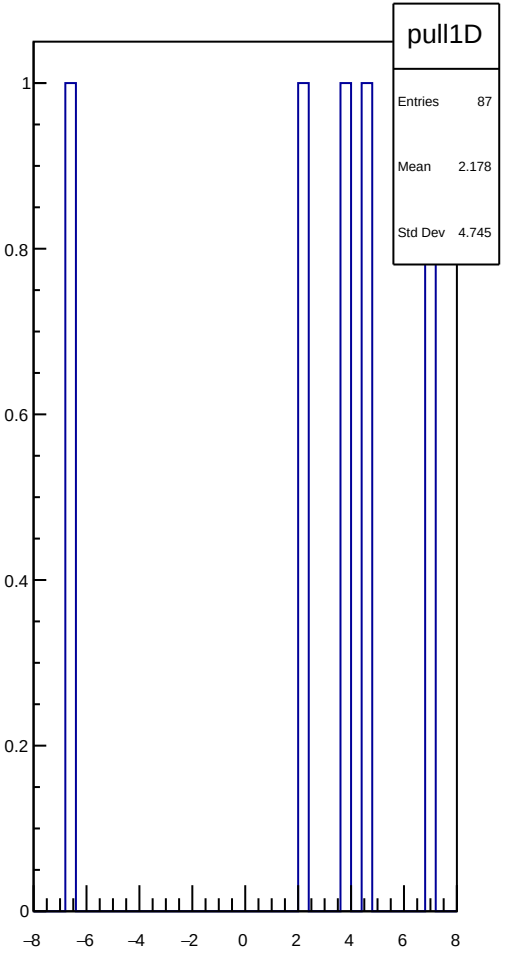

yield_bpm0l08Y_rms vs run
χ² / ndf 6162 / 86
p0 0.01805 ± 1.363e–05
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016

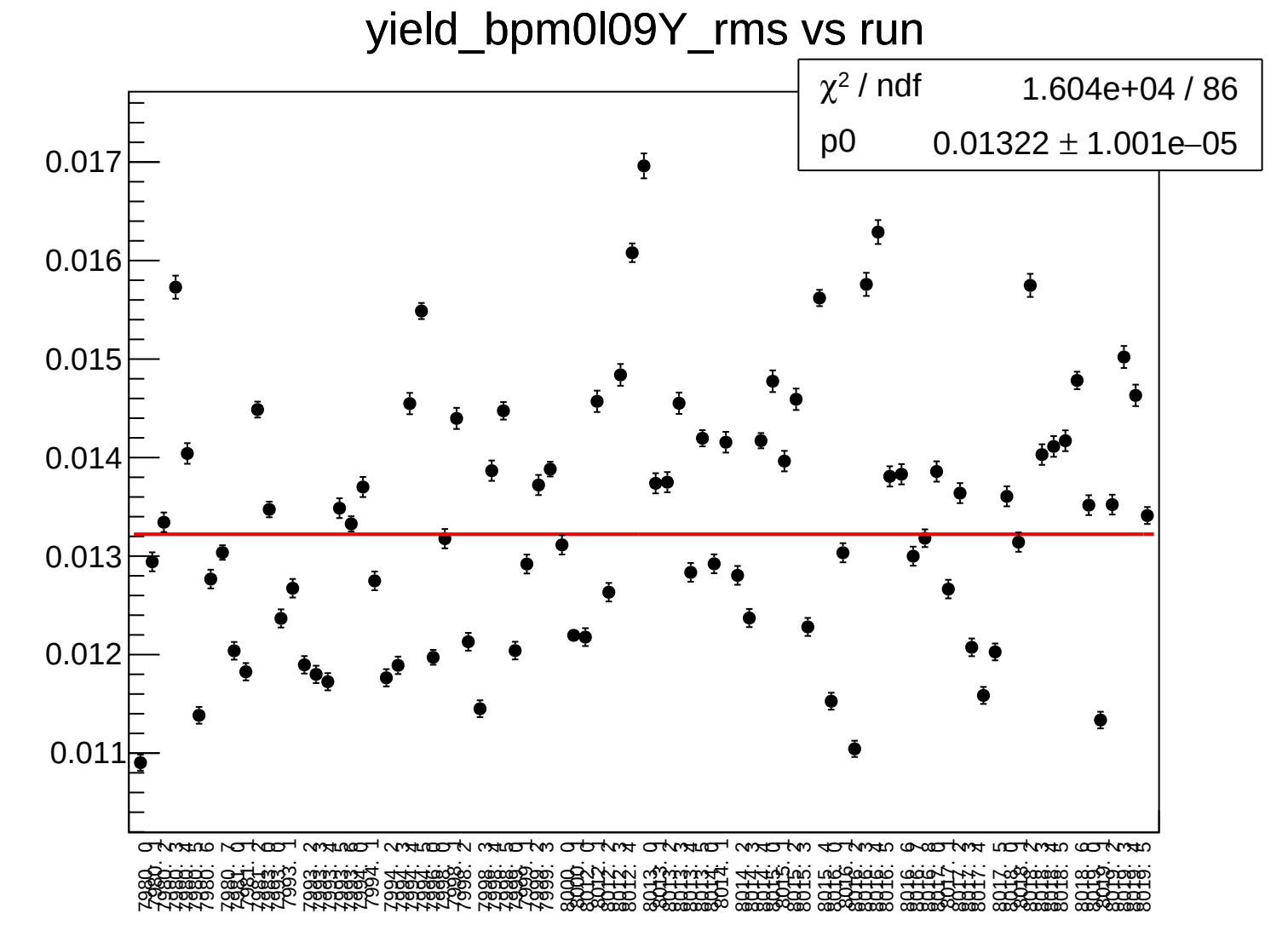

yield_bpm0l09X_mean vs run
χ² / ndf 7.991e+05 / 86
p0 2.483 ± 1.485e−05
2.51
2.5
2.49
2.48
2.47
2.46
2.45
2.44
pull
Entries 87
Mean 286.4
Std Dev 0
200
100
0
−100
−200
−300

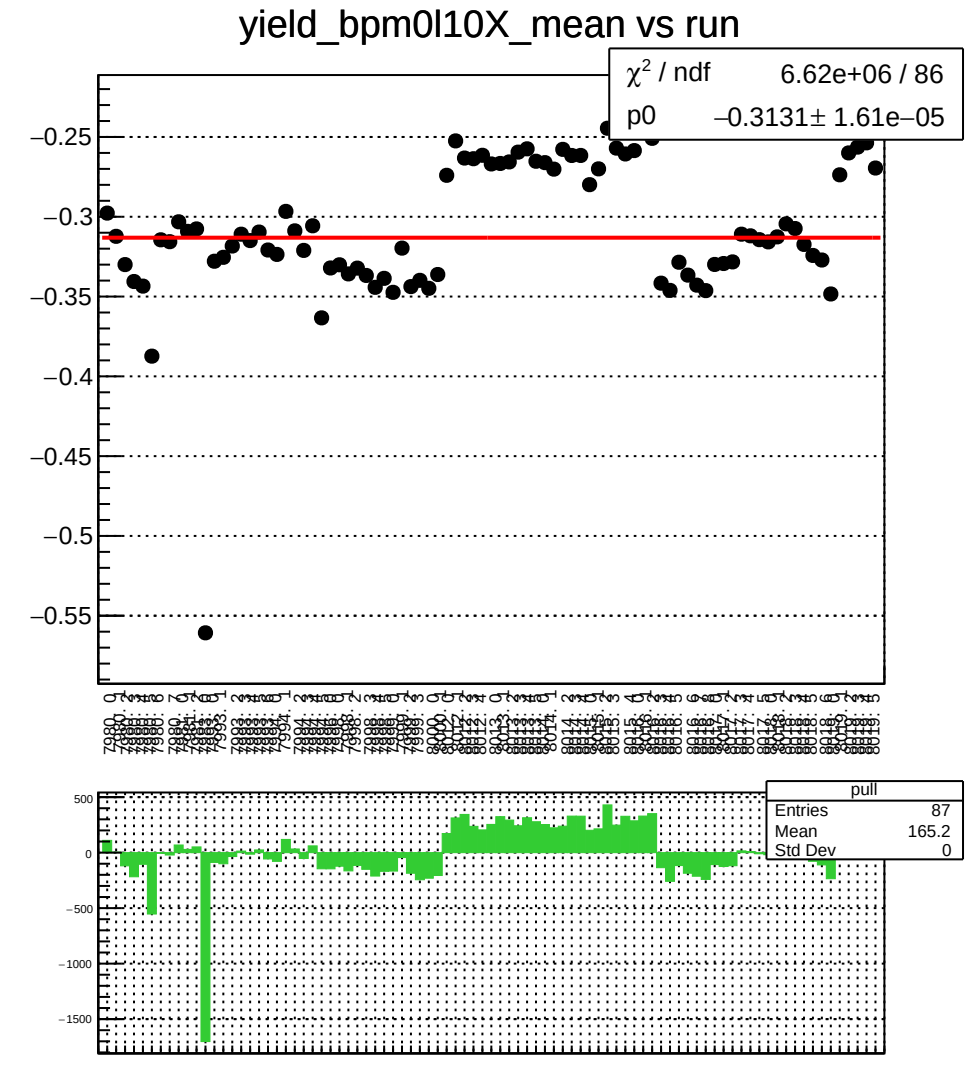

pull1D
Entries 87
Mean −0.1471
Std Dev 3.491
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

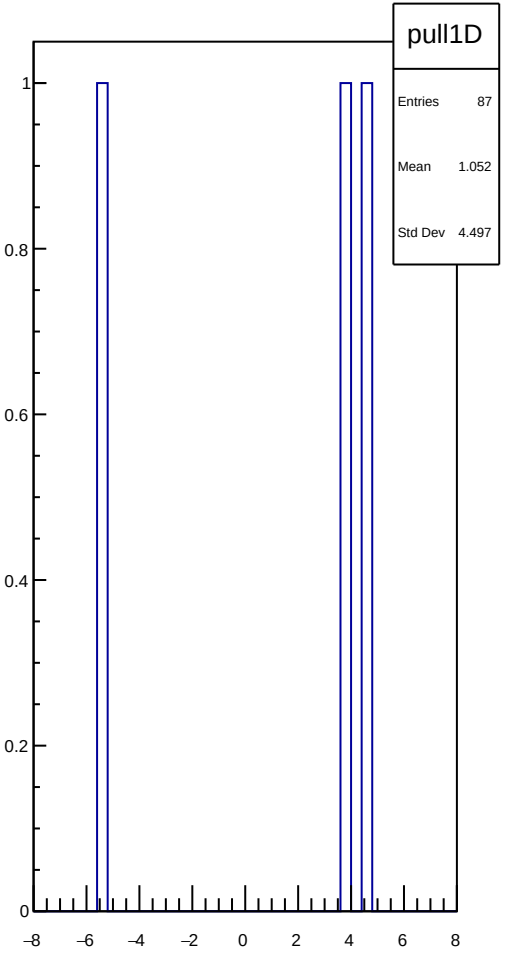

yield_bpm0l09X_rms vs run
χ² / ndf 1.526e+04 / 86
p0 0.01387 ± 1.05e−05
0.02
0.018
0.016
0.014
0.012

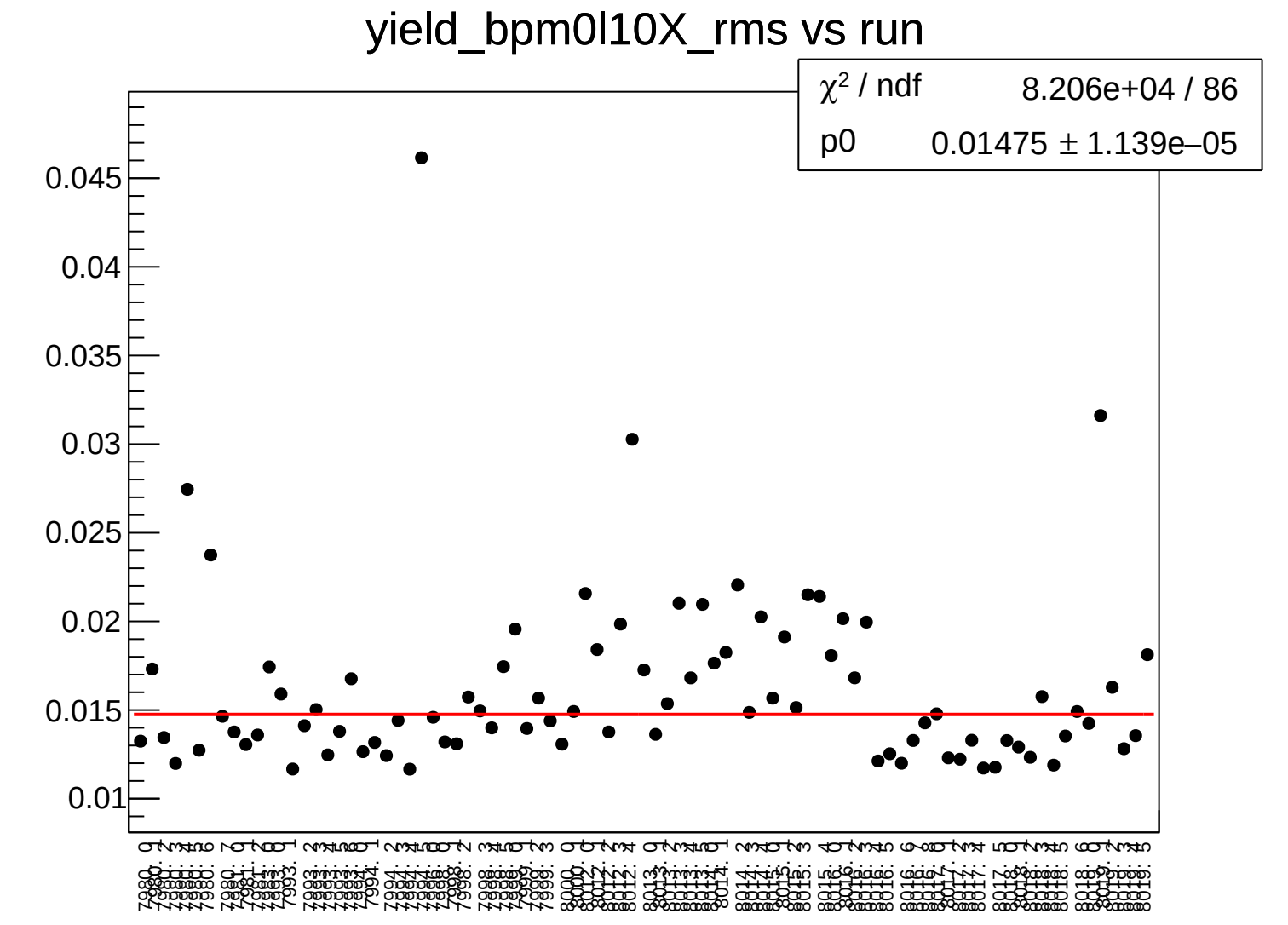

yield_bpm0l09Y_mean vs run
χ² / ndf 2.934e+06 / 86
p0 2.455 ± 1.416e−05
2.5
2.48
2.46
2.44
2.42
2.4
pull
Entries 87
Mean 309
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
−600

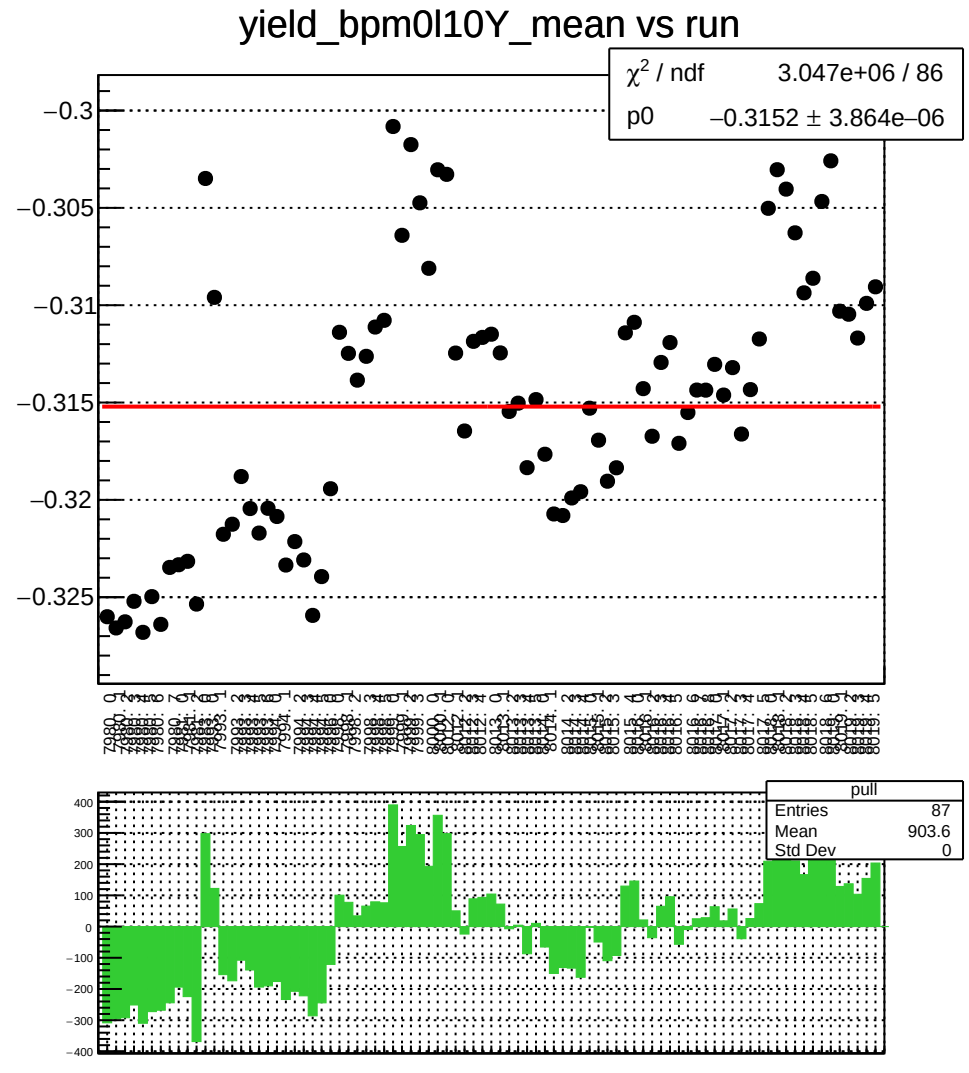

pull1D
Entries 87
Mean 2.178
Std Dev 4.745
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

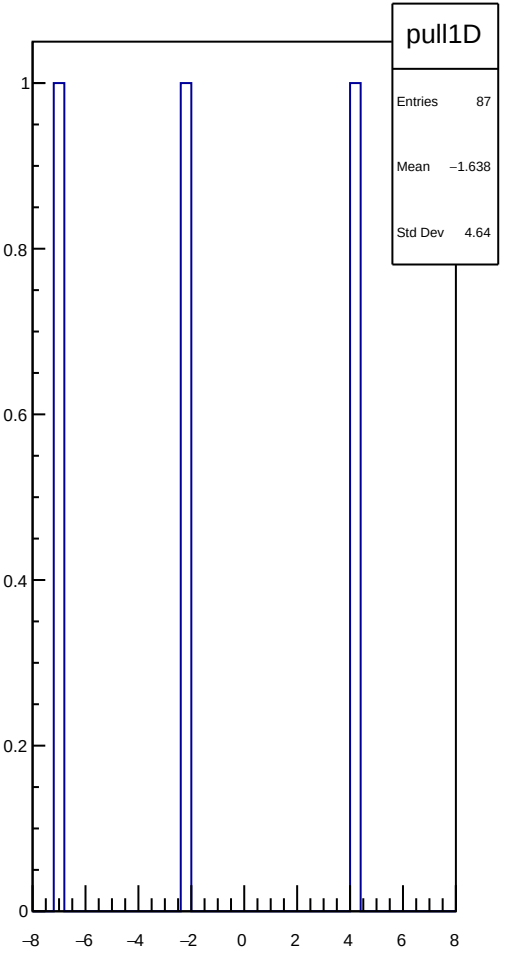

yield_bpm0l09Y_rms vs run
χ² / ndf 1.604e+04 / 86
p0 0.01322 ± 1.001e–05
0.017
0.016
0.015
0.014
0.013
0.012
0.011

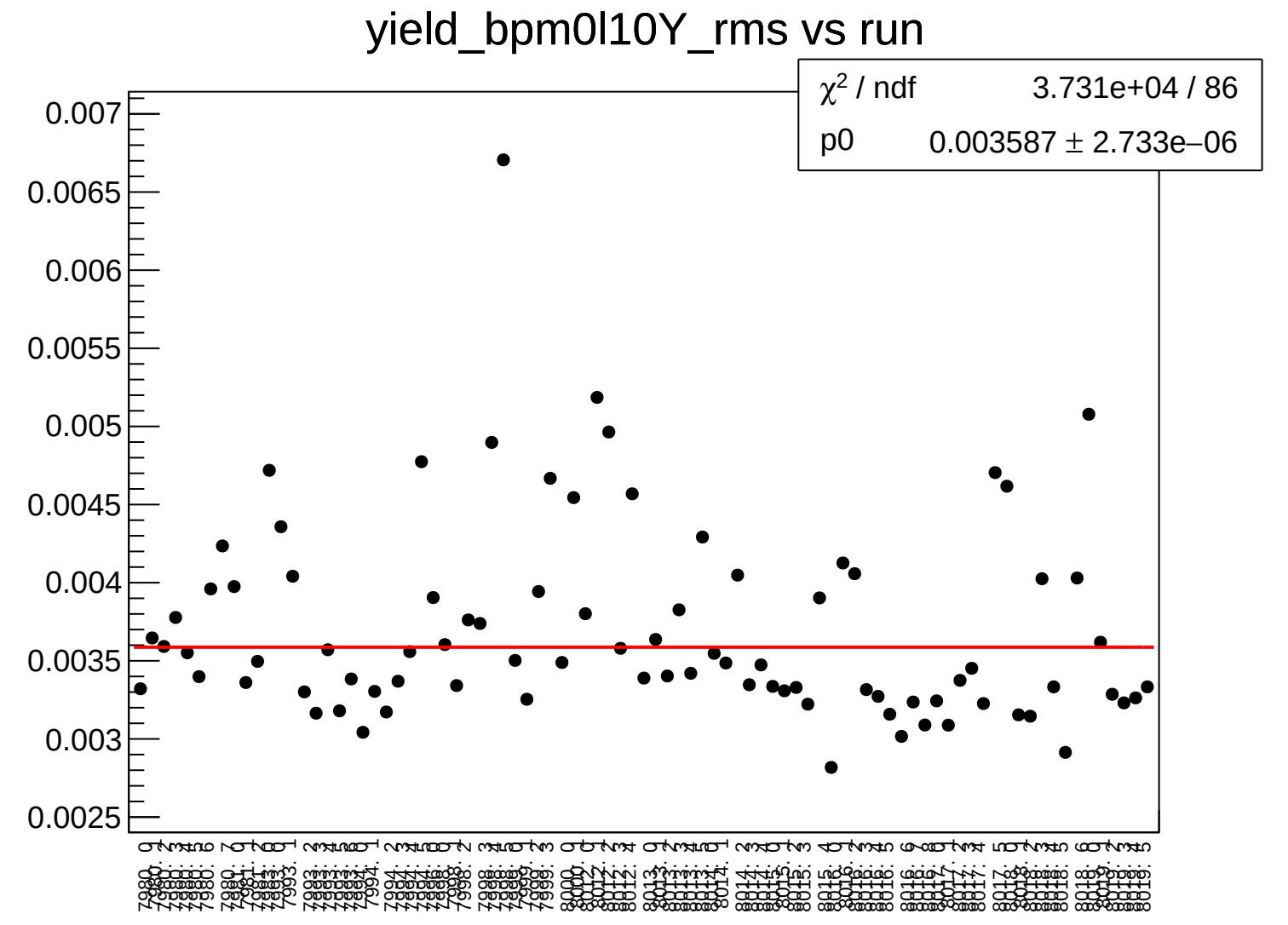

yield_bpm0l10X_mean vs run
χ² / ndf 6.62e+06 / 86
p0 −0.3131± 1.61e−05
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
−0.55
pull
Entries 87
Mean 165.2
Std Dev 0
500
0
−500
−1000
−1500

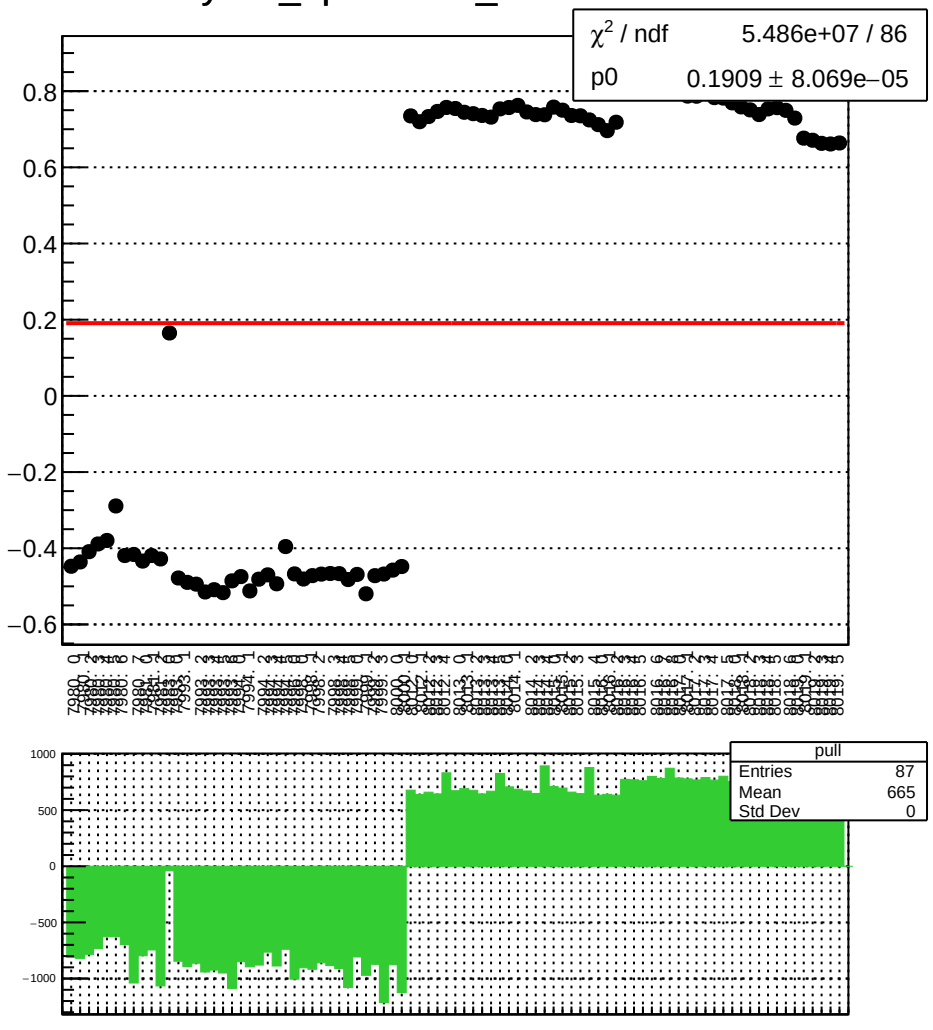

pull1D
Entries 87
Mean 1.052
Std Dev 4.497
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

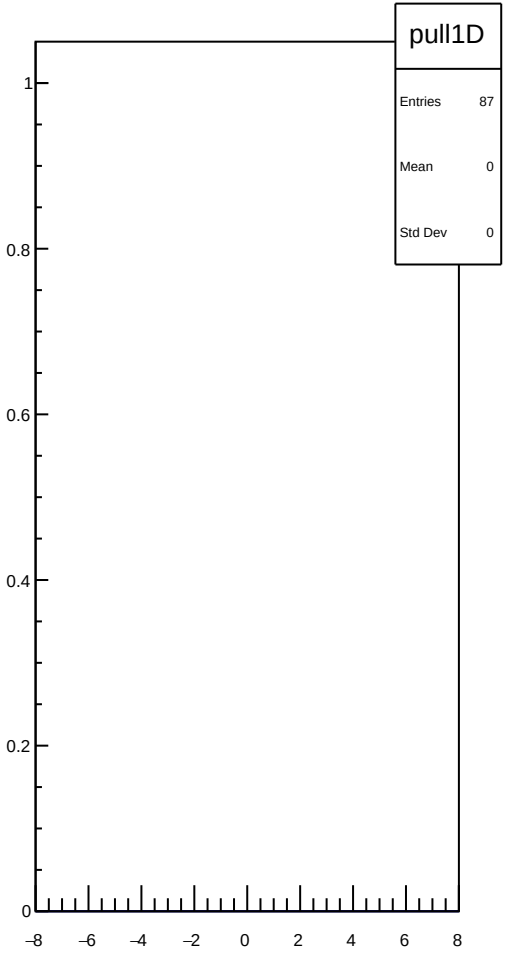

yield_bpm0l10X_rms vs run
χ² / ndf 8.206e+04 / 86
p0 0.01475 ± 1.139e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

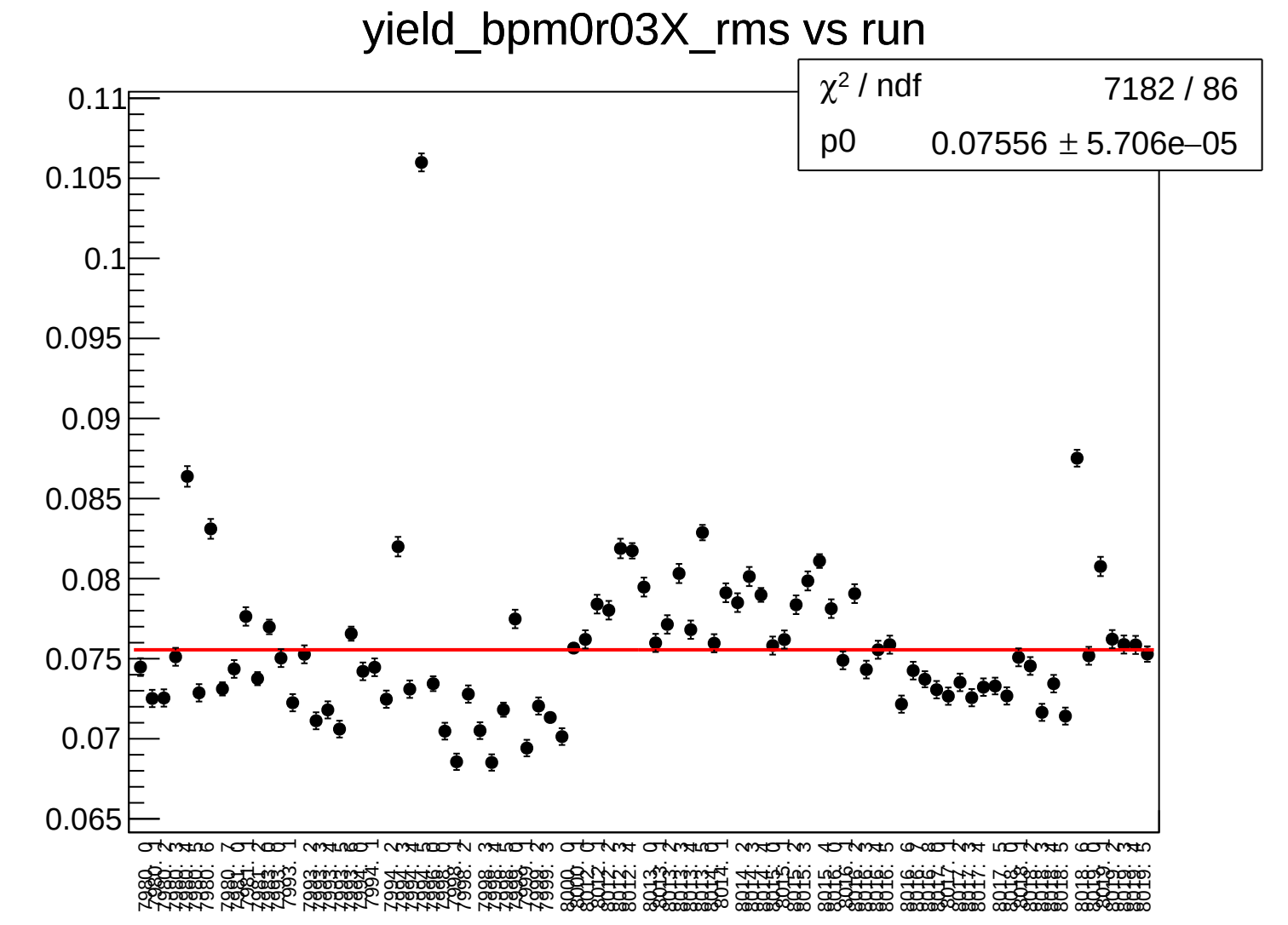

yield_bpm0l10Y_mean vs run
χ² / ndf 3.047e+06 / 86
p0 −0.3152 ± 3.864e−06
−0.3
−0.305
−0.31
−0.315
−0.32
−0.325
pull
Entries 87
Mean 903.6
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

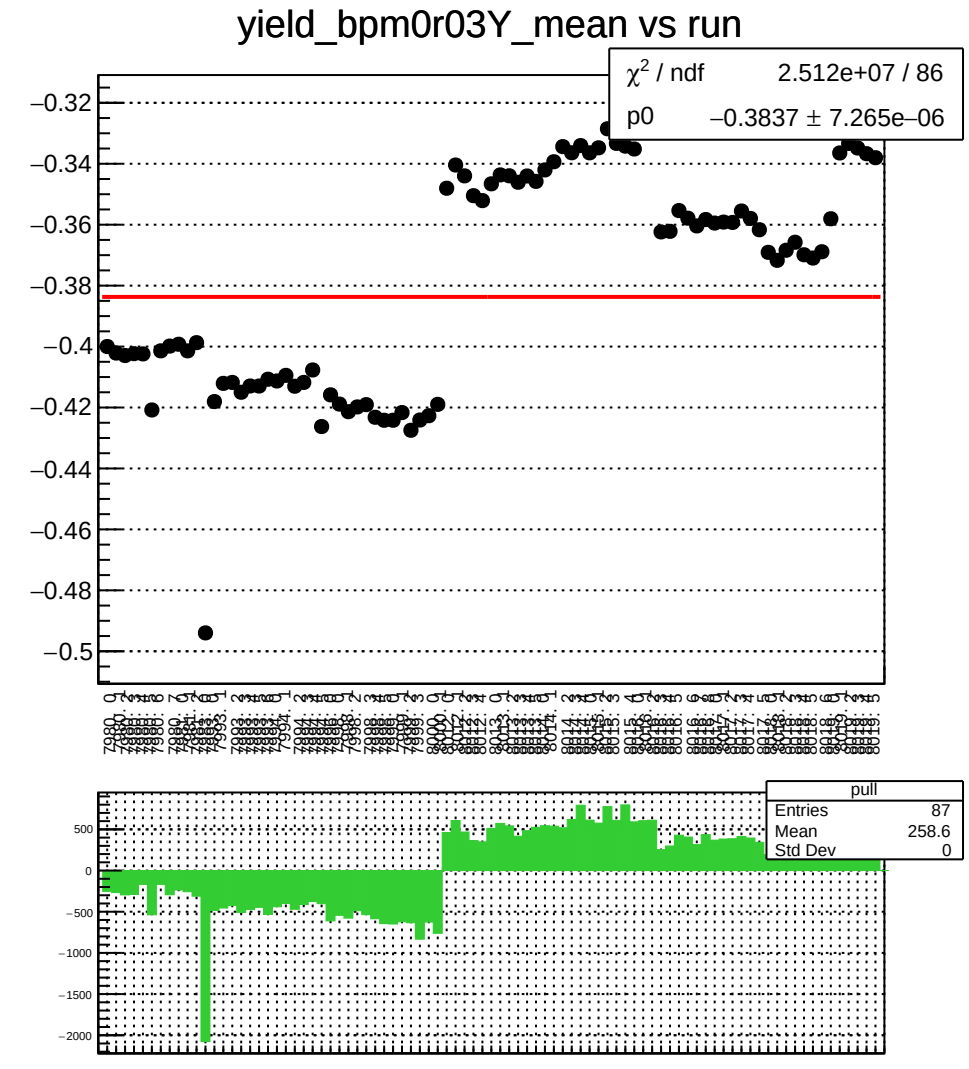

pull1D
Entries 87
Mean −1.638
Std Dev 4.64
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

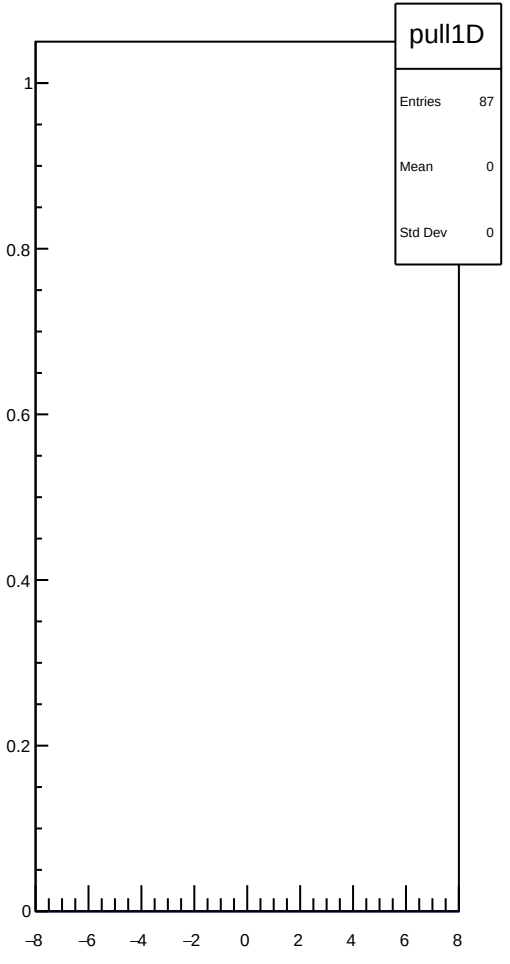

yield_bpm0l10Y_rms vs run
χ² / ndf 3.731e+04 / 86
p0 0.003587 ± 2.733e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

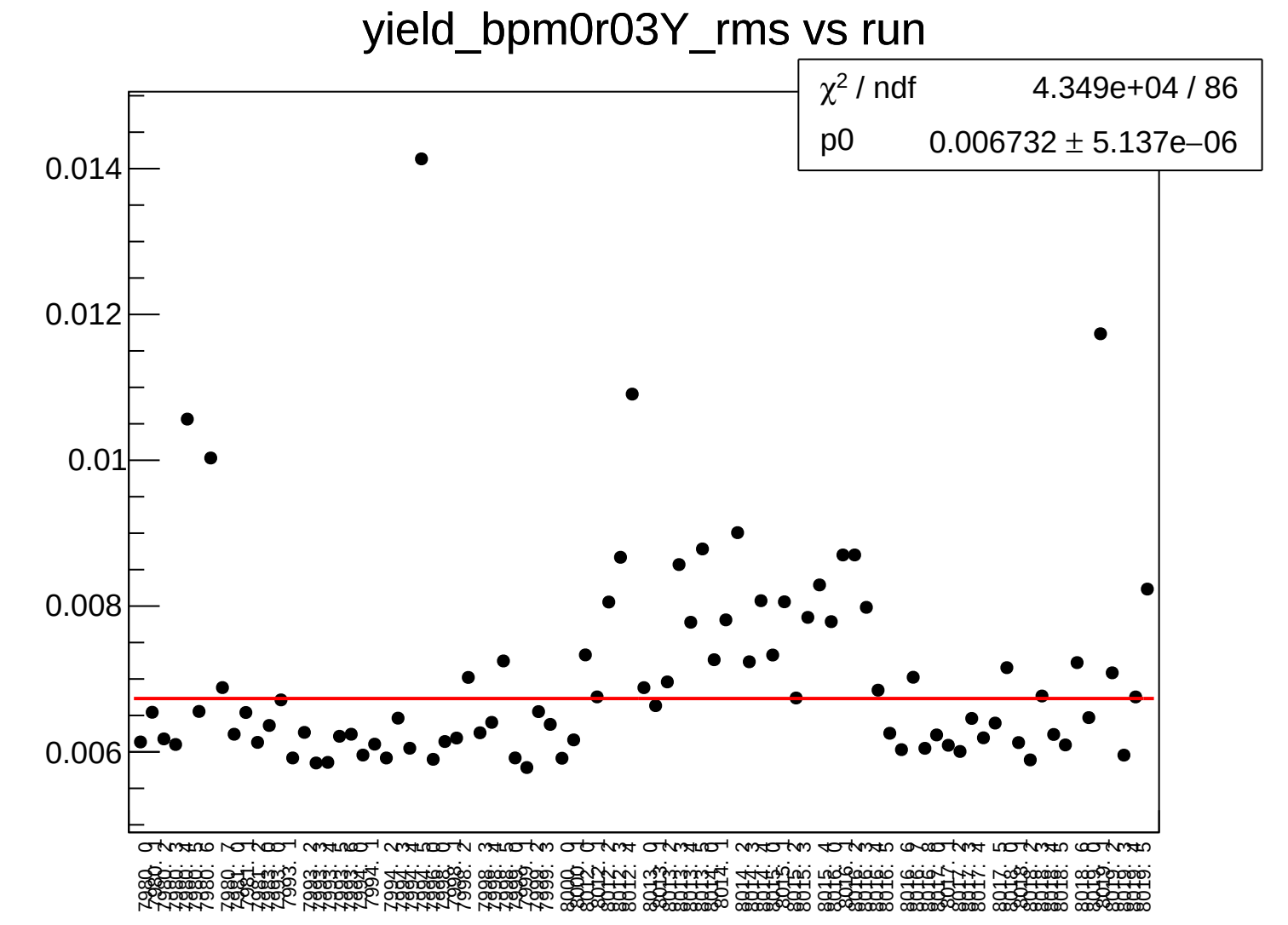

yield_bpm0r03X_mean vs run
χ² / ndf 5.486e+07 / 86
p0 0.1909 ± 8.069e−05
pull
Entries 87
Mean 665
Std Dev 0

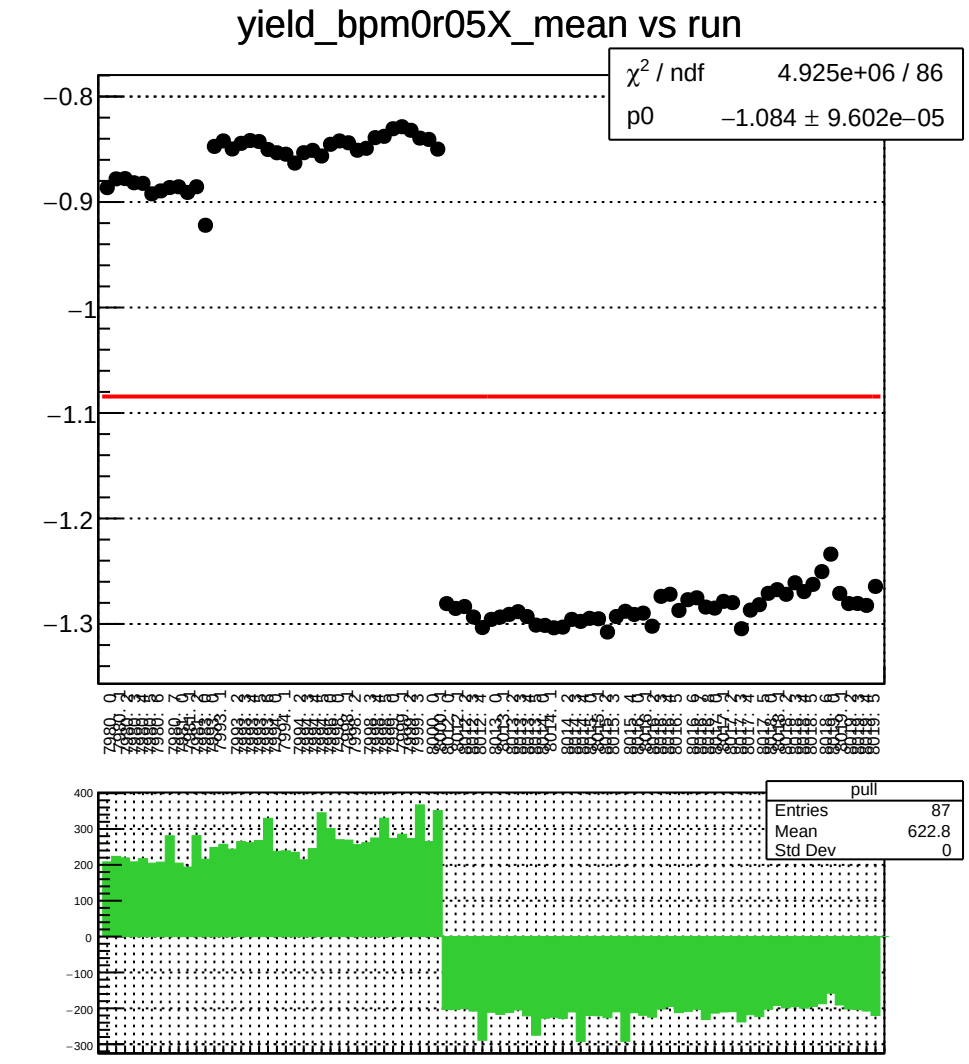

pull1D
Entries 87
Mean 0
Std Dev 0

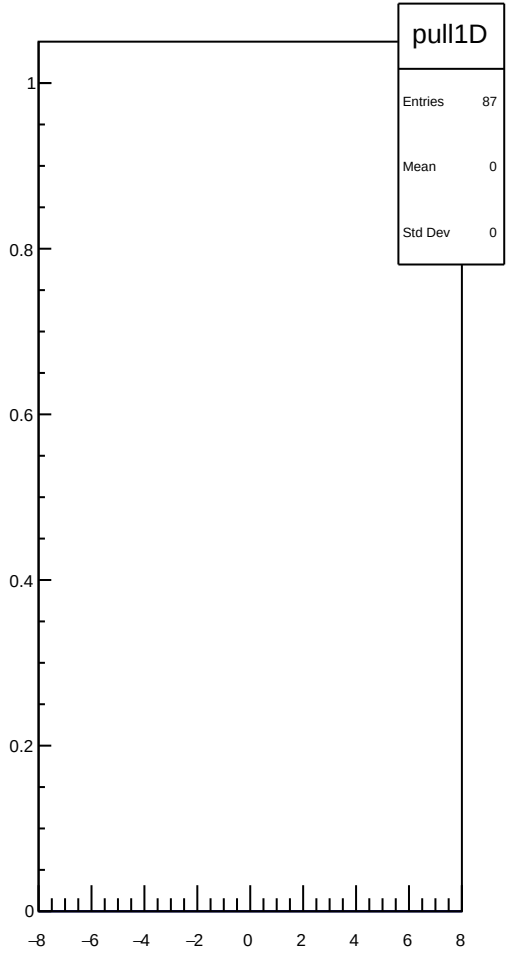

yield_bpm0r03X_rms vs run
χ² / ndf 7182 / 86
p0 0.07556 ± 5.706e–05
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065

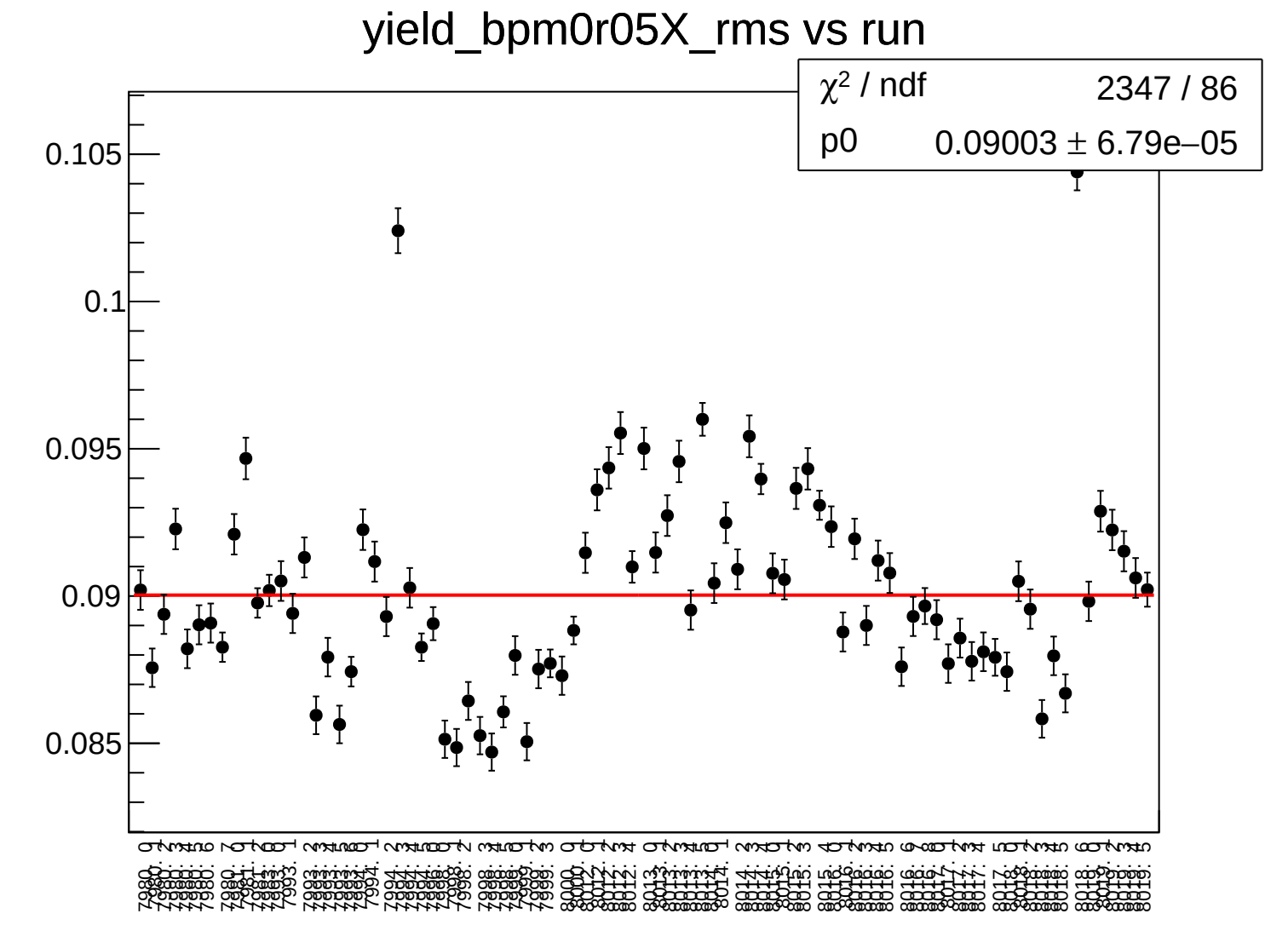

yield_bpm0r03Y_mean vs run
χ² / ndf 2.512e+07 / 86
p0 −0.3837 ± 7.265e−06
−0.32
−0.34
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
pull
Entries 87
Mean 258.6
Std Dev 0
500
0
−500
−1000
−1500
−2000

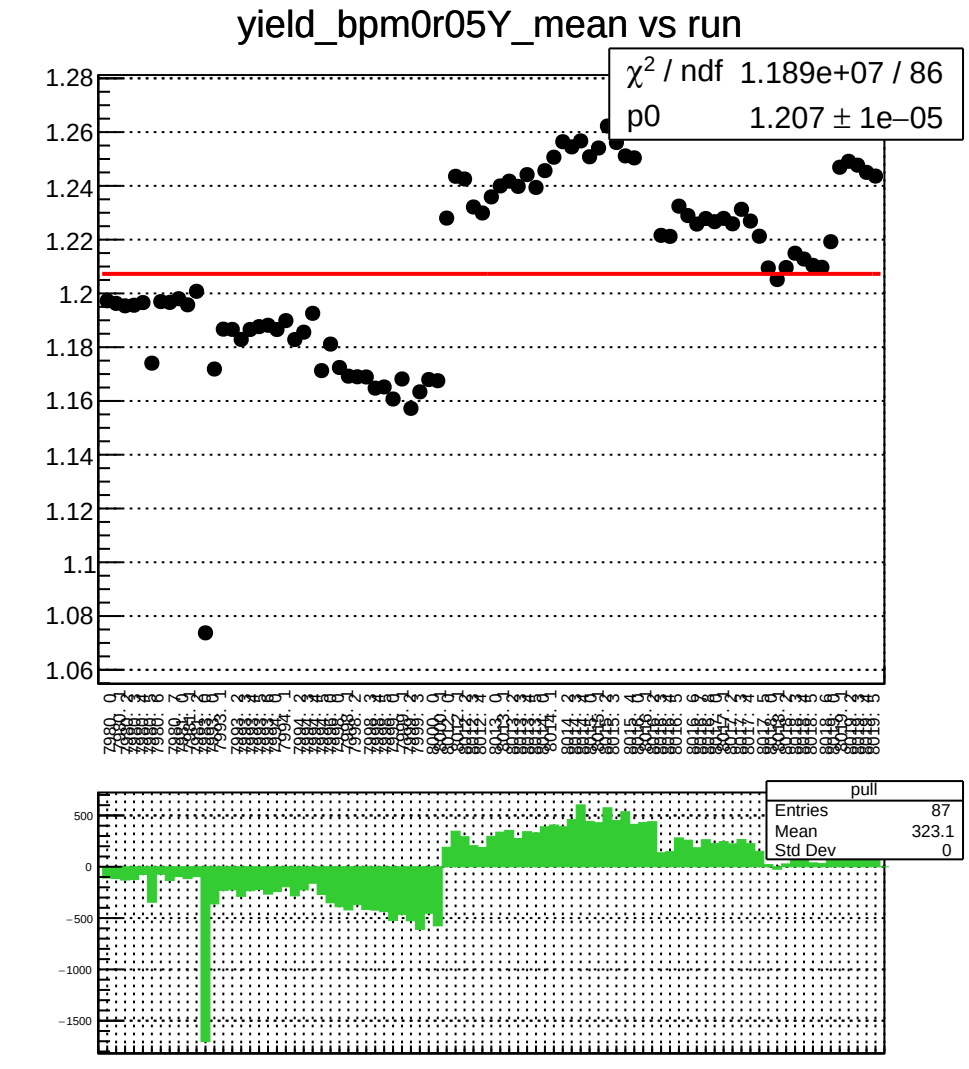

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

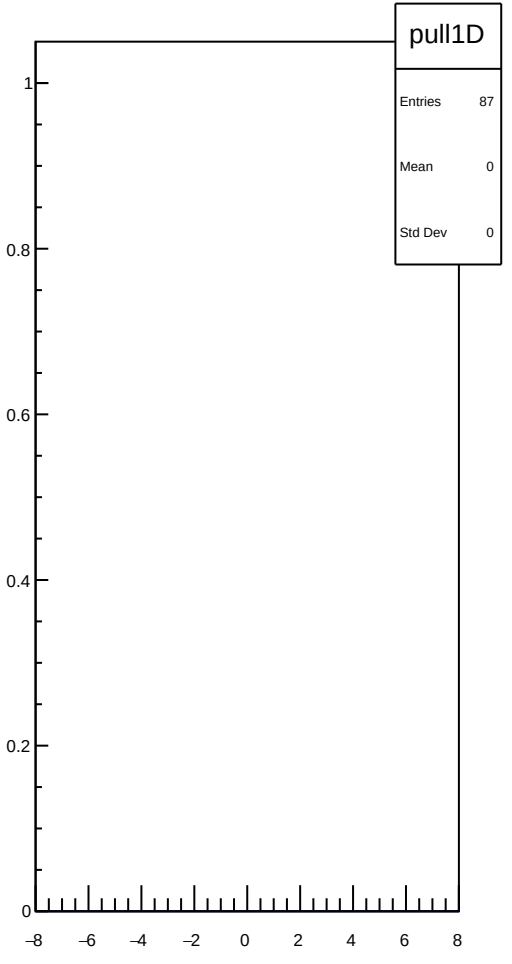

yield_bpm0r03Y_rms vs run
χ² / ndf 4.349e+04 / 86
p0 0.006732 ± 5.137e−06
0.014
0.012
0.01
0.008
0.006

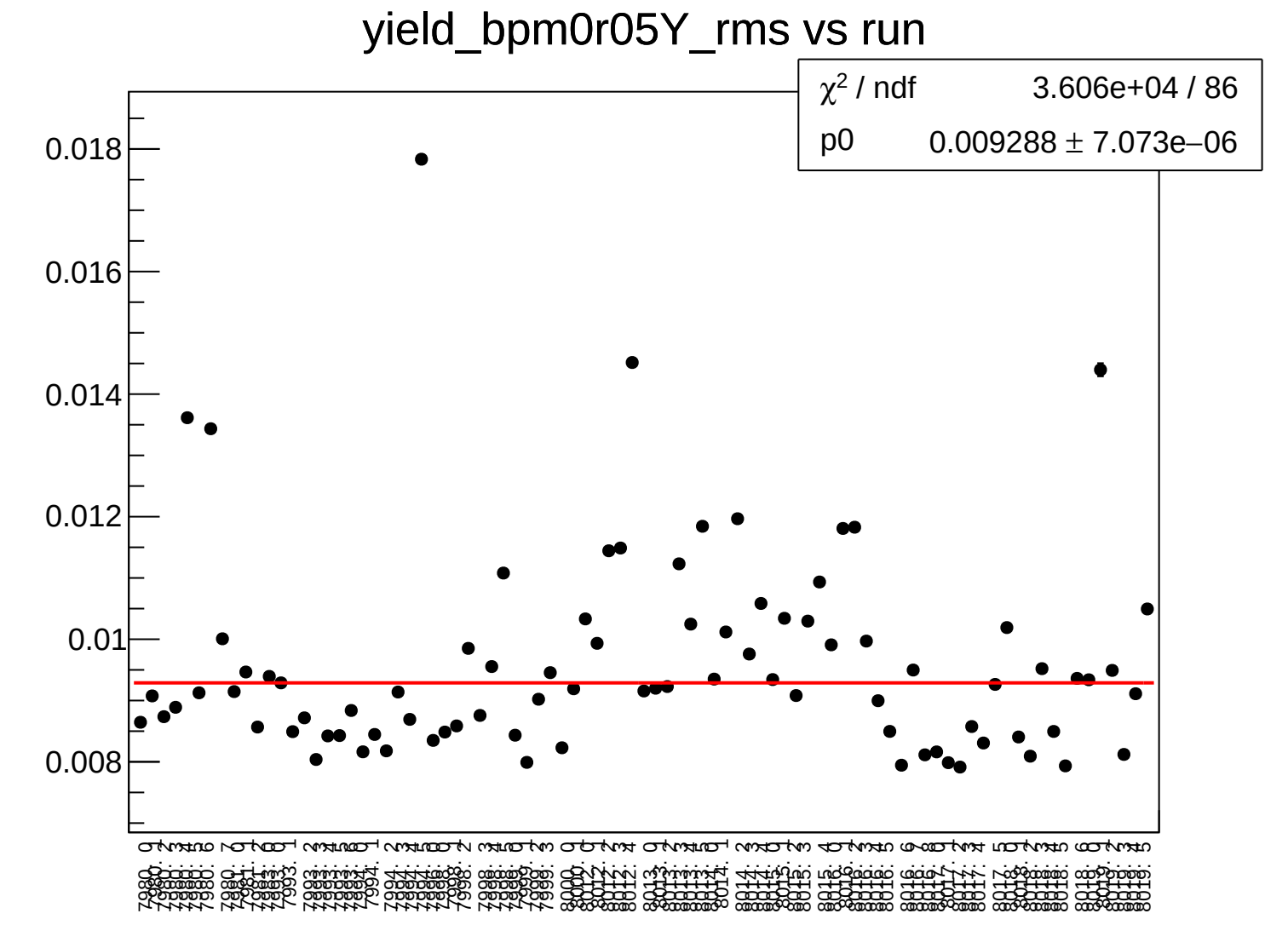

yield_bpm0r05X_mean vs run
χ² / ndf 4.925e+06 / 86
p0 −1.084 ± 9.602e−05
−0.8
−0.9
−1
−1.1
−1.2
−1.3
pull
Entries 87
Mean 622.8
Std Dev 0
400
300
200
100
0
−100
−200
−300

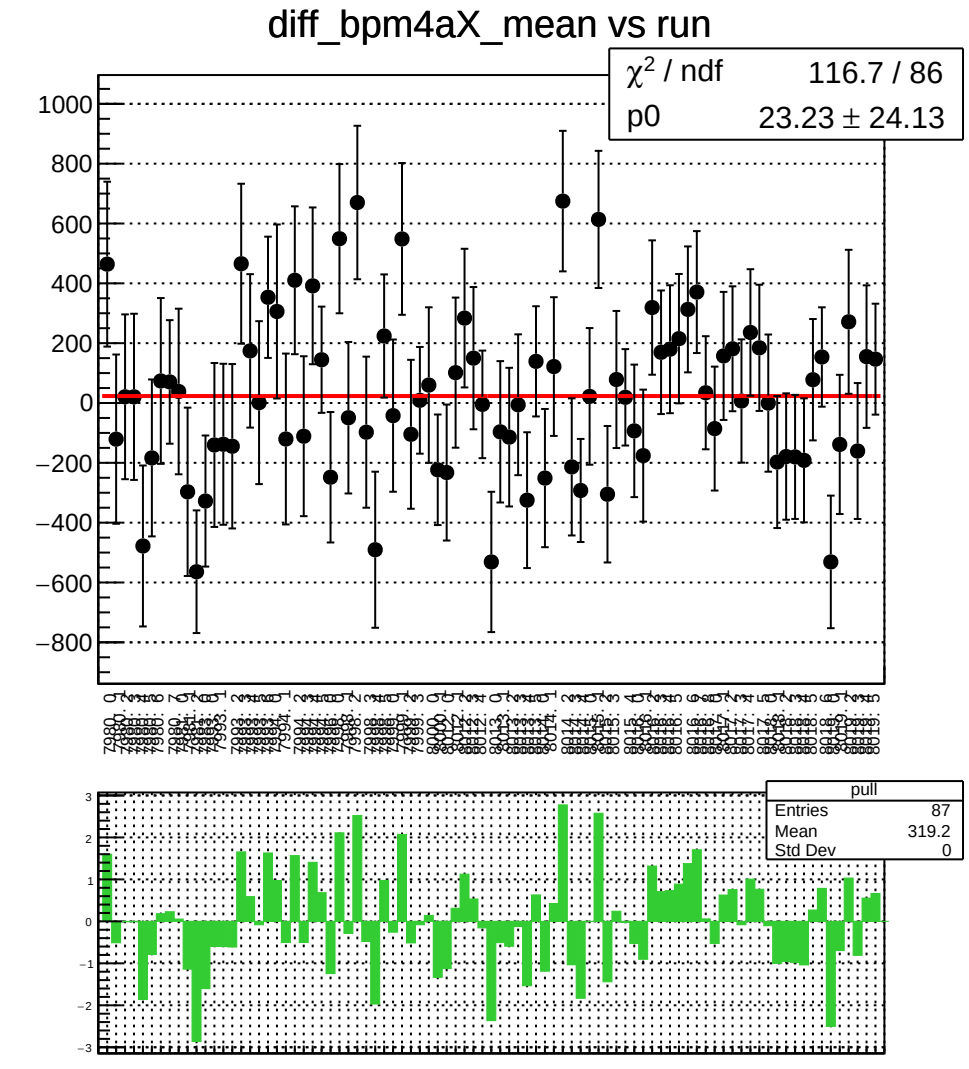

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

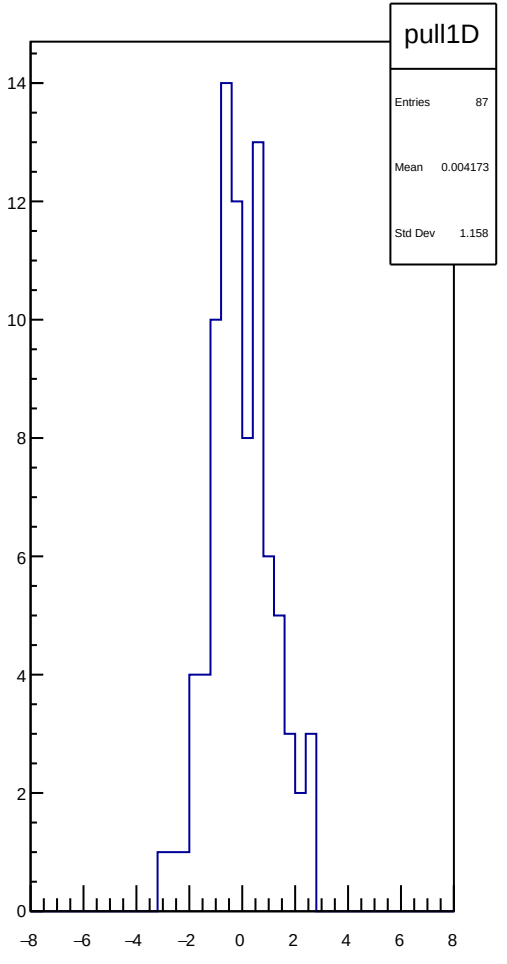

yield_bpm0r05X_rms vs run
χ² / ndf 2347 / 86
p0 0.09003 ± 6.79e−05
0.105
0.1
0.095
0.09
0.085

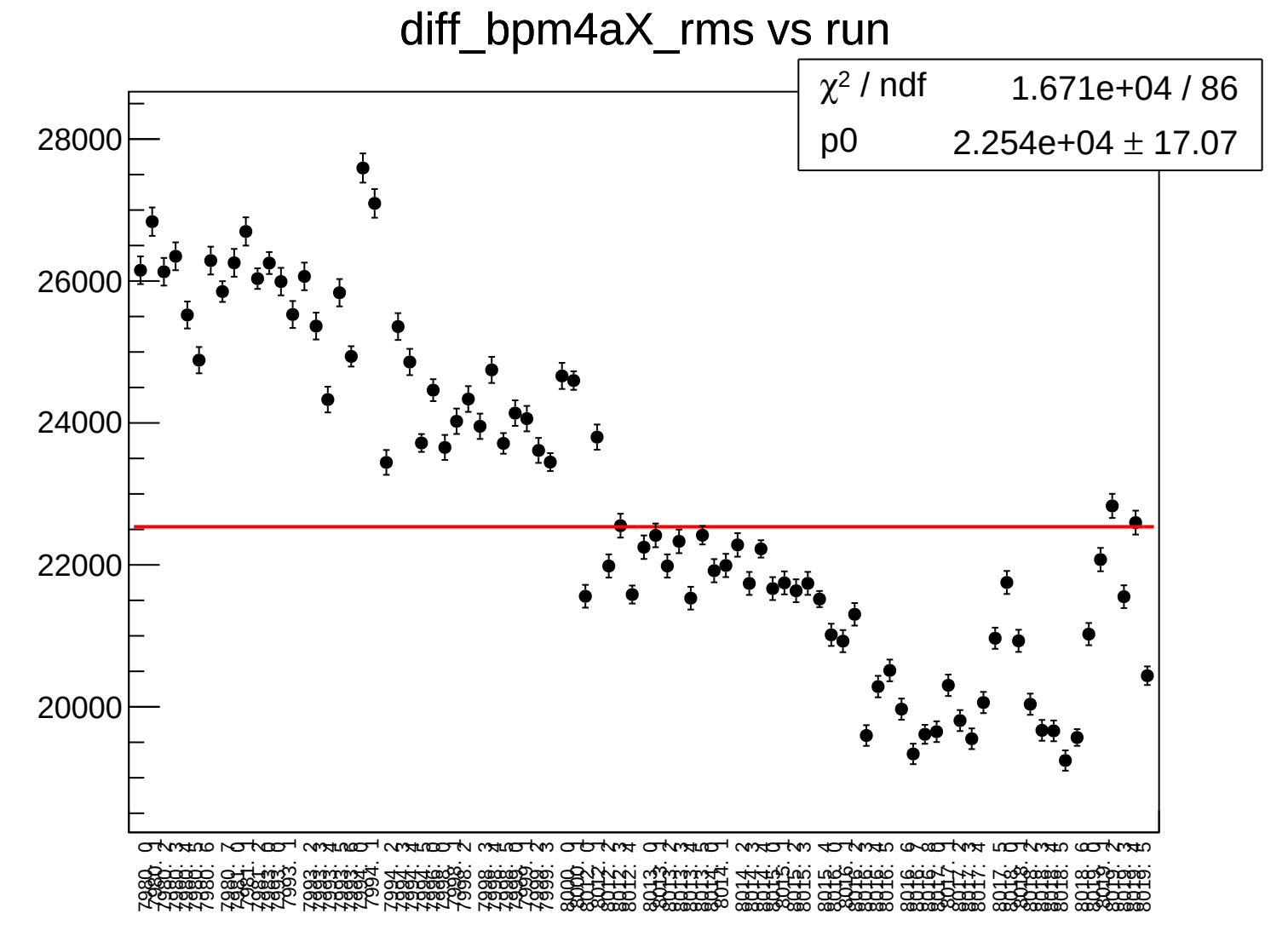

yield_bpm0r05Y_mean vs run
χ² / ndf 1.189e+07 / 86
p0 1.207 ± 1e−05
1.28
1.26
1.24
1.22
1.2
1.18
1.16
1.14
1.12
1.1
1.08
1.06
pull
Entries 87
Mean 323.1
Std Dev 0
500
0
−500
−1000
−1500

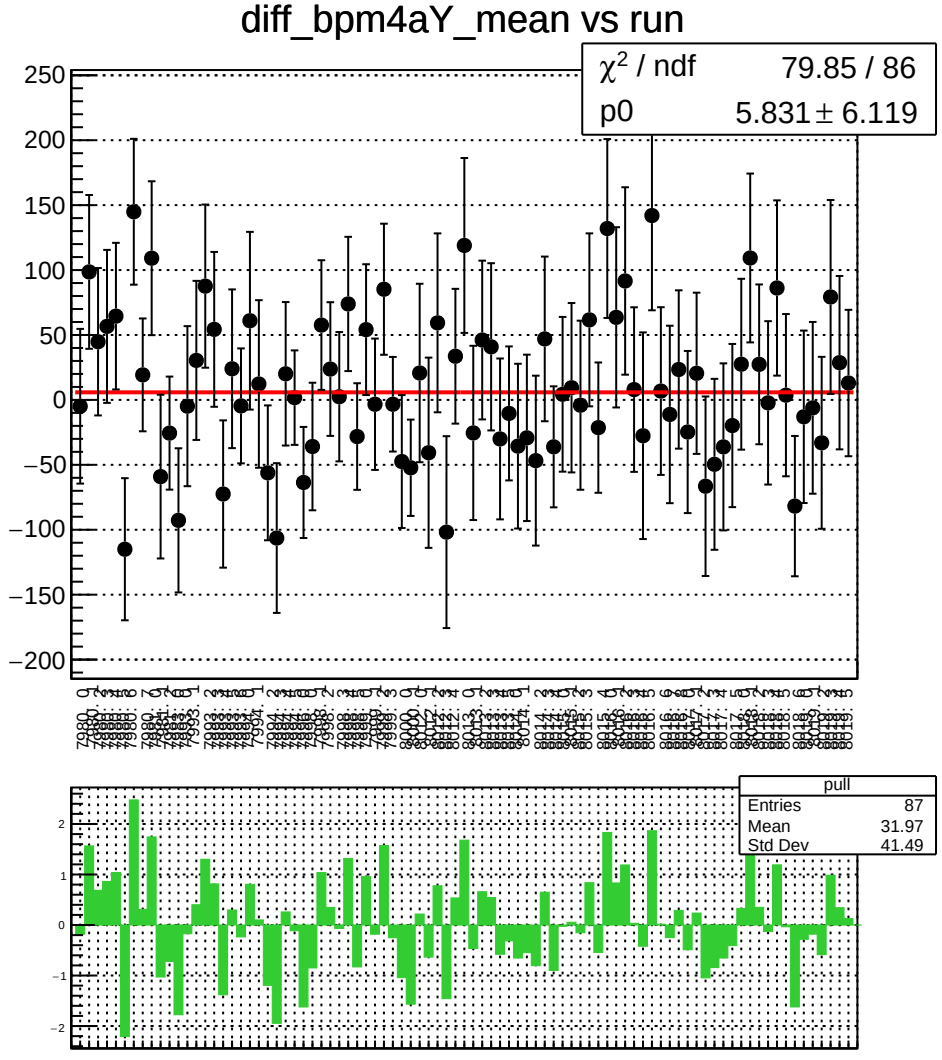

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

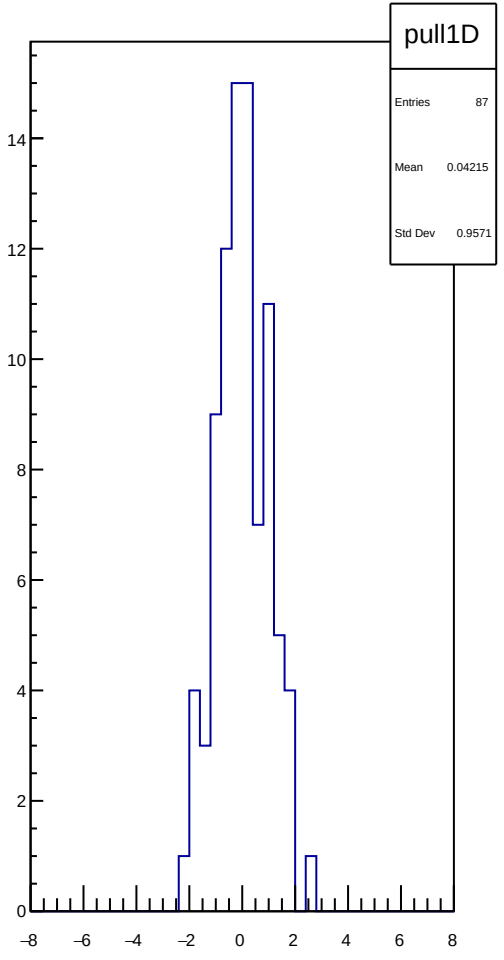

yield_bpm0r05Y_rms vs run
χ² / ndf 3.606e+04 / 86
p0 0.009288 ± 7.073e−06
0.018
0.016
0.014
0.012
0.01
0.008

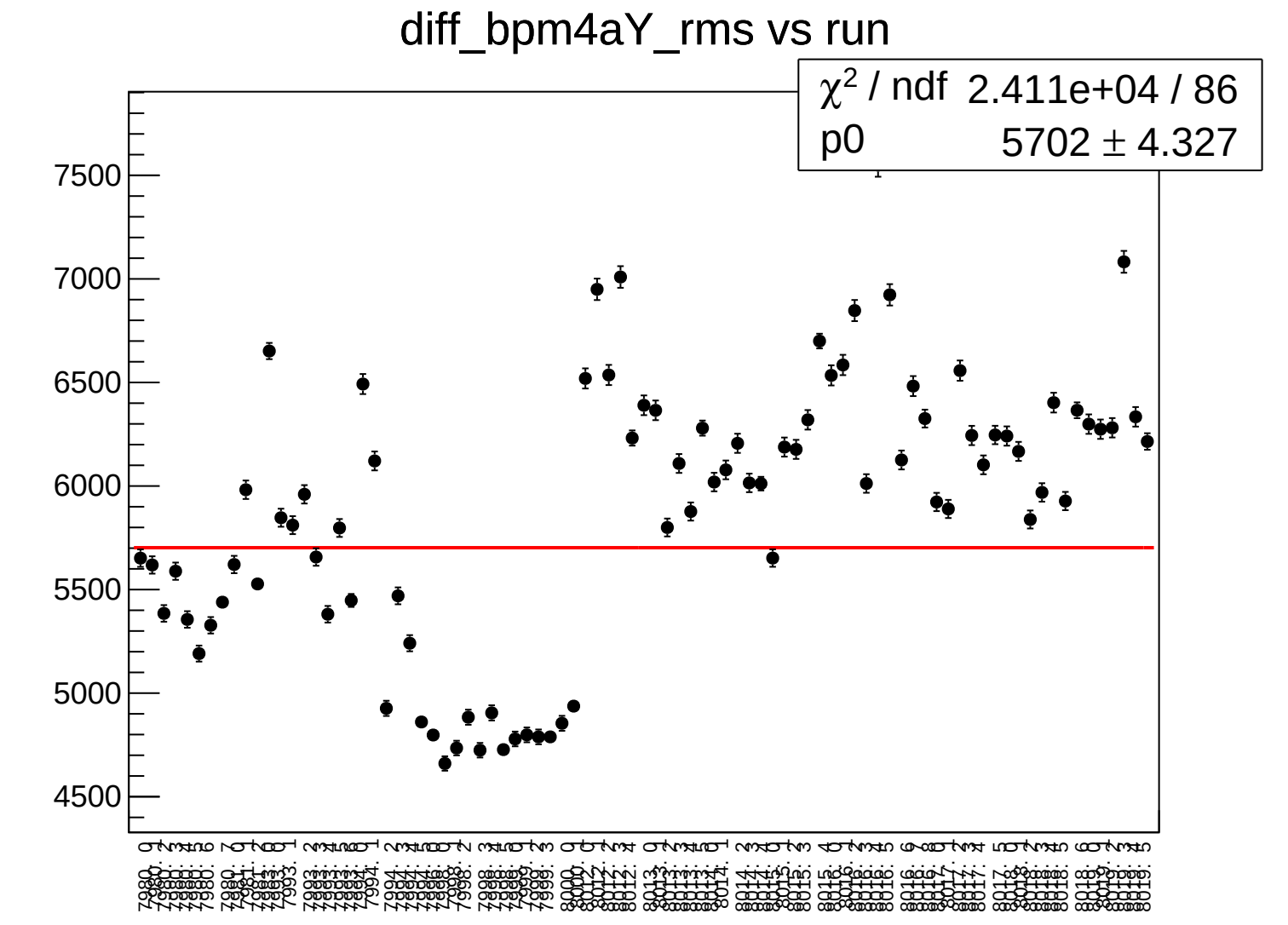

diff_bpm4aX_mean vs run
χ² / ndf 116.7 / 86
p0 23.23 ± 24.13
pull
Entries 87
Mean 319.2
Std Dev 0

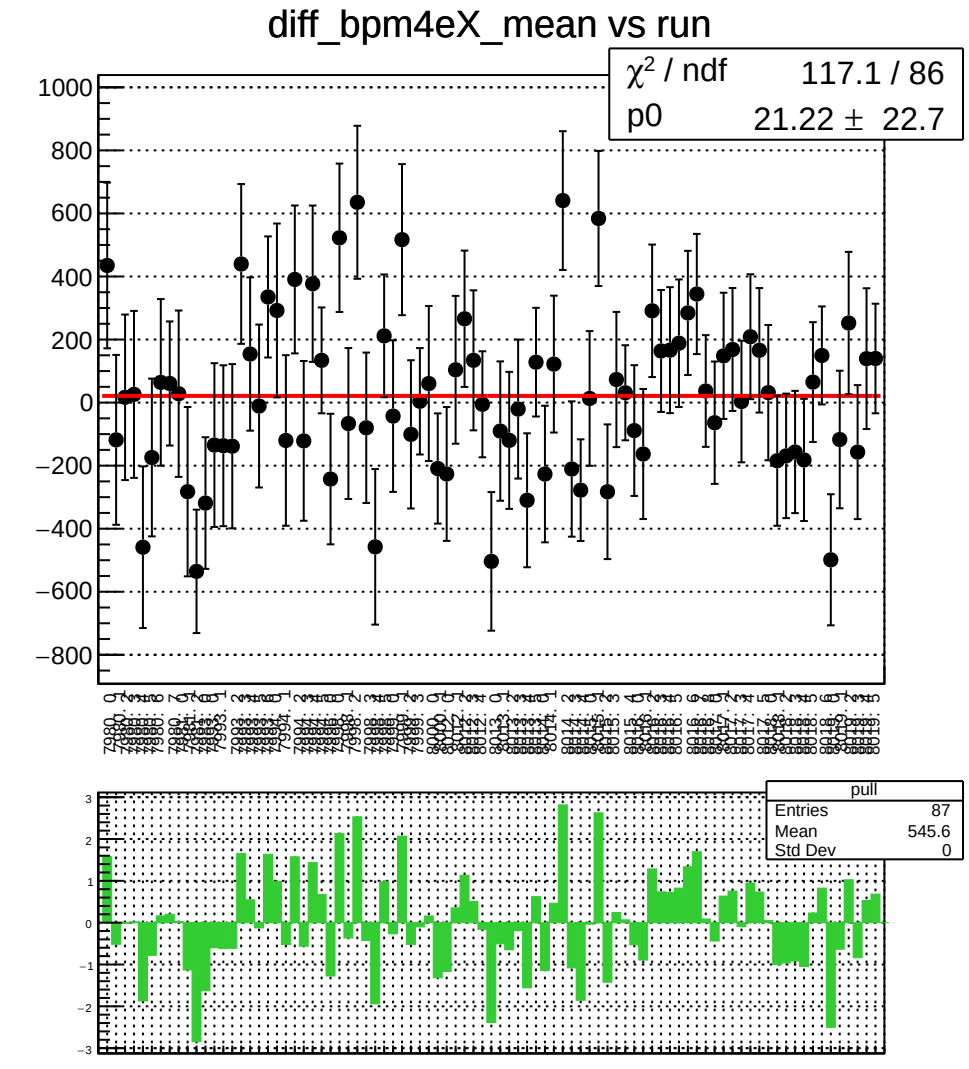

pull1D
Entries 87
Mean 0.004173
Std Dev 1.158

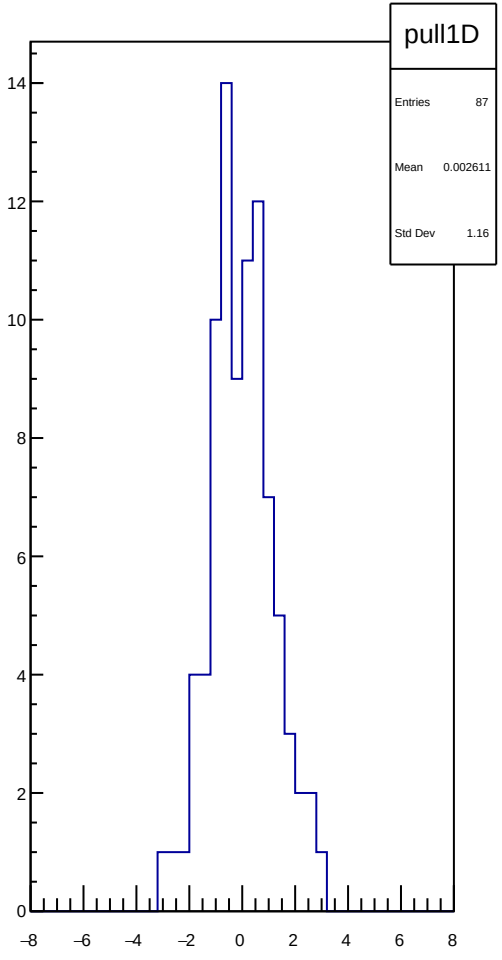

diff_bpm4aX_rms vs run
χ² / ndf 1.671e+04 / 86
p0 2.254e+04 ± 17.07
28000
26000
24000
22000
20000

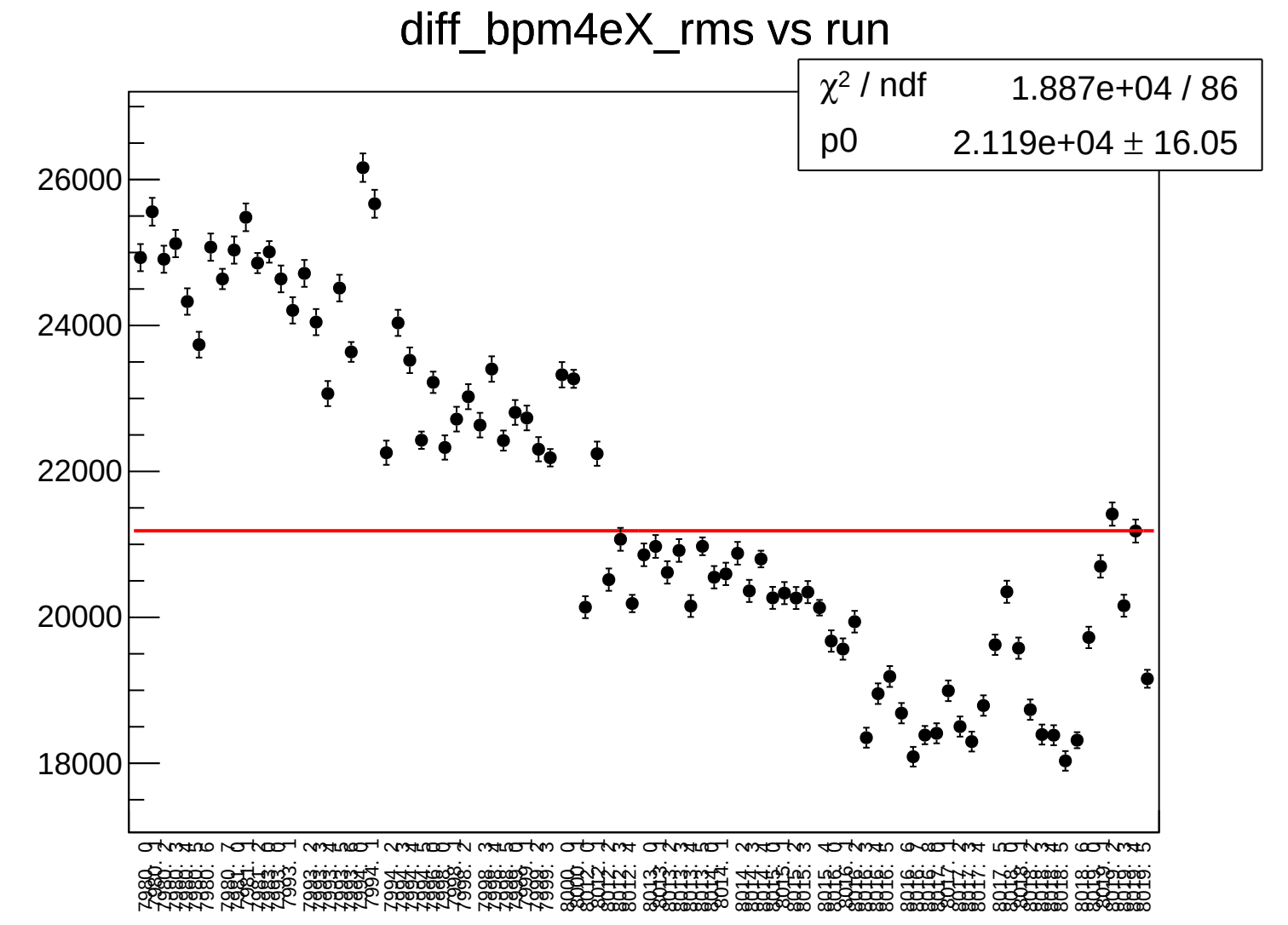

diff_bpm4aY_mean vs run
χ² / ndf 79.85 / 86
p0 5.831 ± 6.119
pull
Entries 87
Mean 31.97
Std Dev 41.49

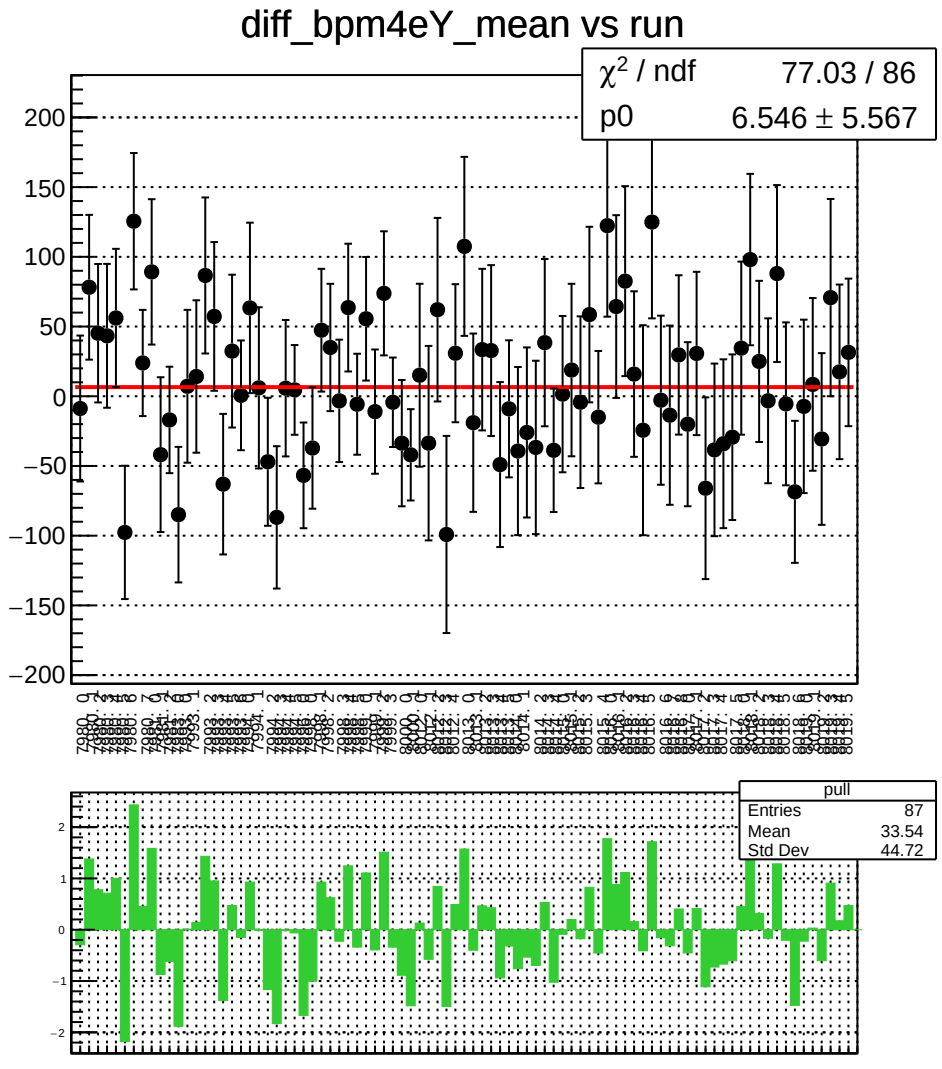

pull1D
Entries 87
Mean 0.04215
Std Dev 0.9571

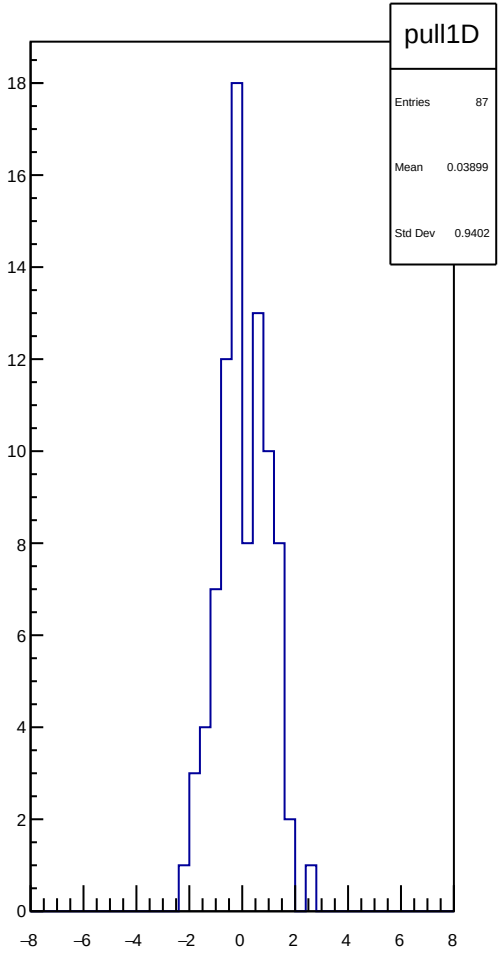

diff_bpm4aY_rms vs run
χ² / ndf 2.411e+04 / 86
p0 5702 ± 4.327
7500
7000
6500
6000
5500
5000
4500

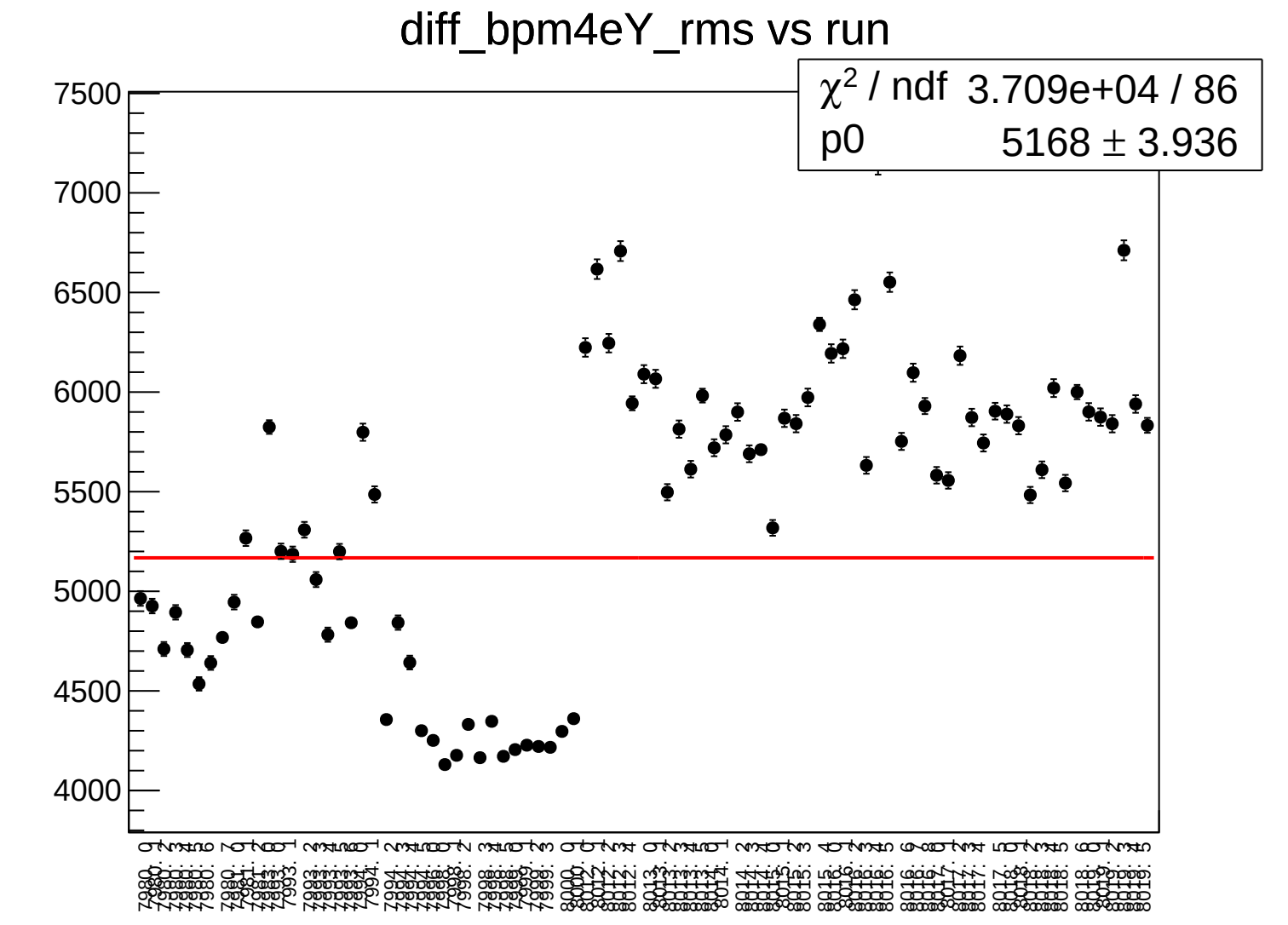

diff_bpm4eX_mean vs run
χ² / ndf 117.1 / 86
p0 21.22 ± 22.7
pull
Entries 87
Mean 545.6
Std Dev 0

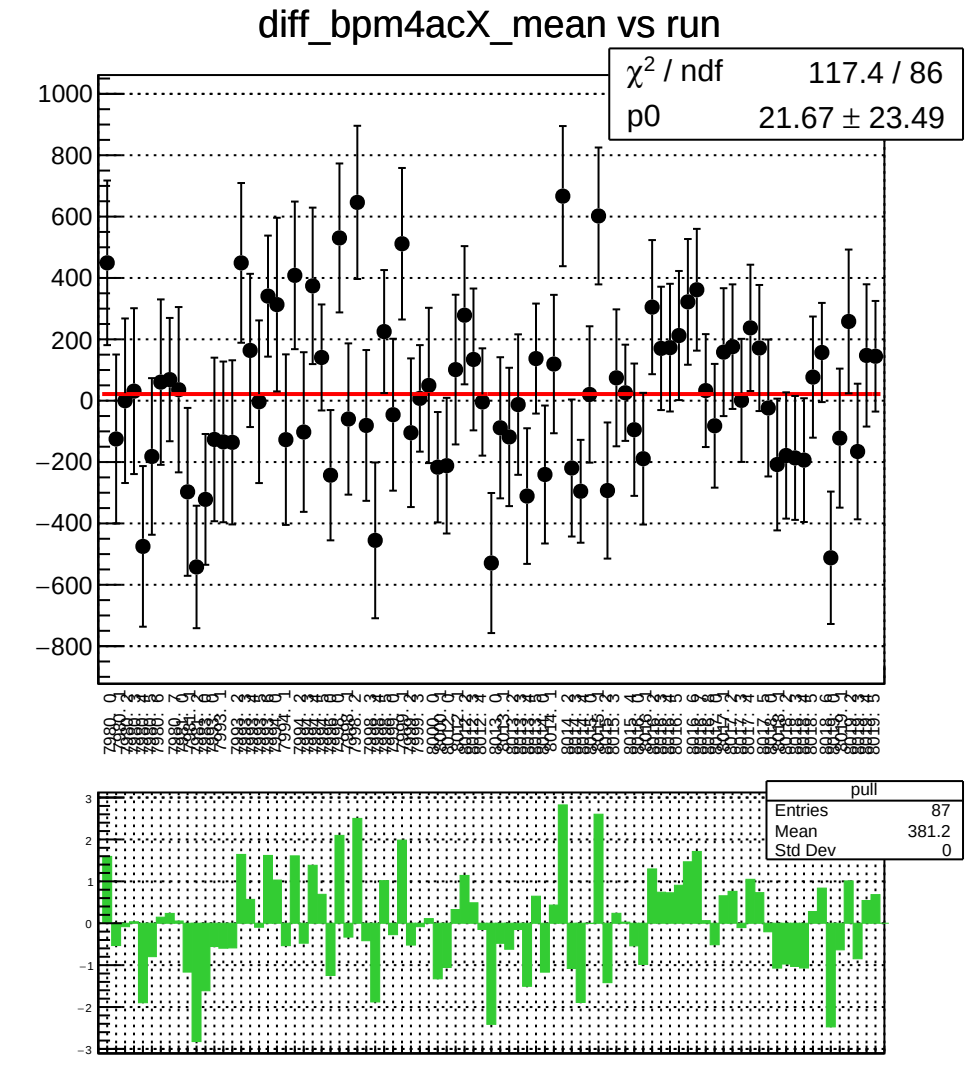

pull1D
Entries 87
Mean 0.002611
Std Dev 1.16

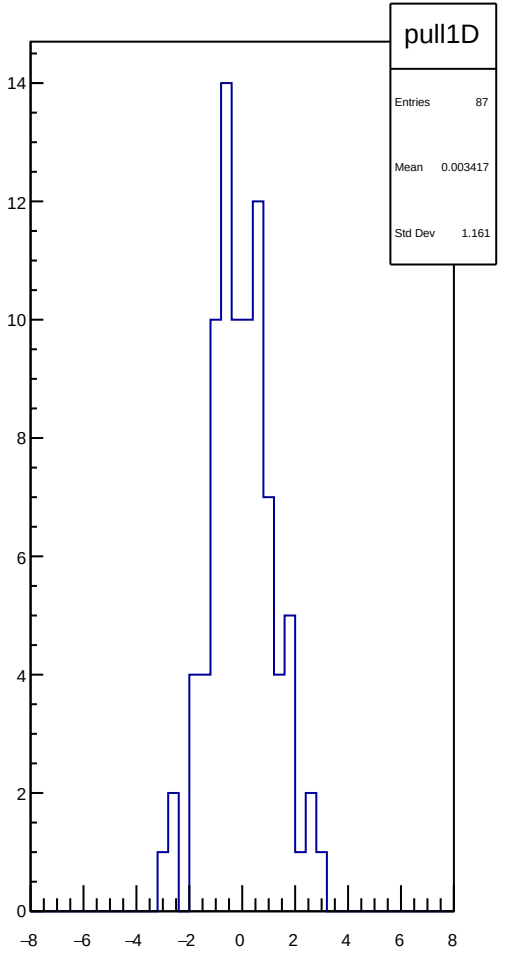

diff_bpm4eX_rms vs run
χ² / ndf 1.887e+04 / 86
p0 2.119e+04 ± 16.05
26000
24000
22000
20000
18000

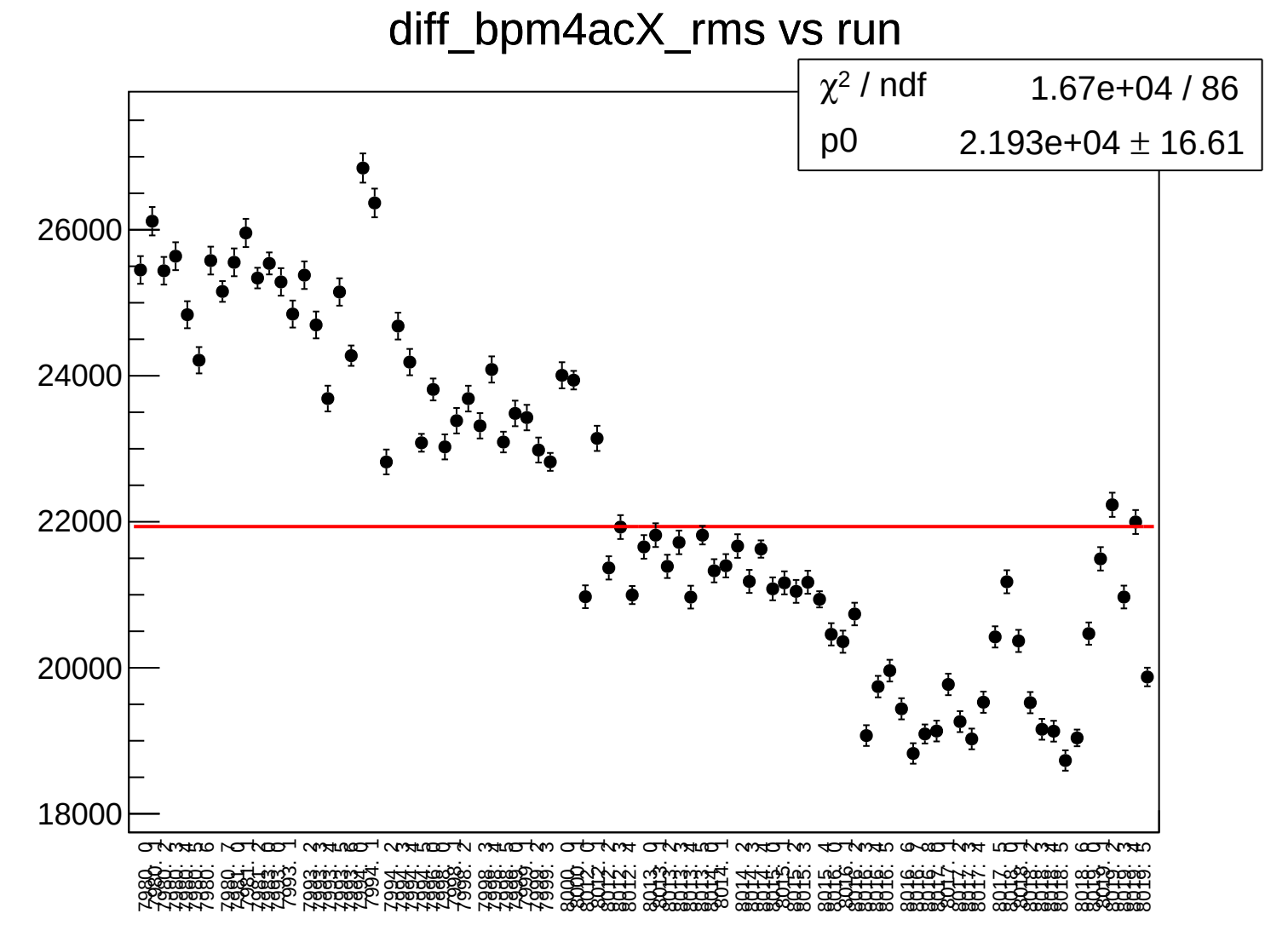

diff_bpm4eY_mean vs run
χ^2 / ndf 77.03 / 86
p0 6.546 ± 5.567
pull
Entries 87
Mean 33.54
Std Dev 44.72

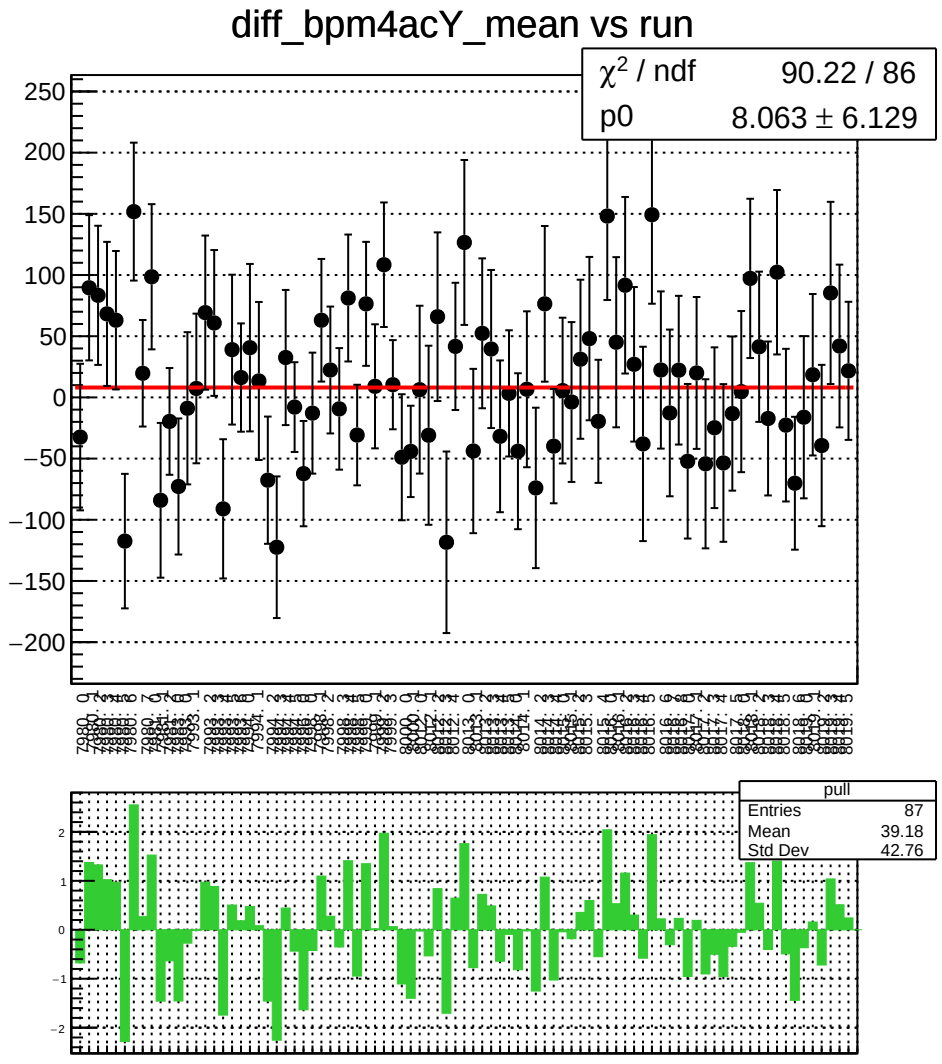

pull1D
Entries 87
Mean 0.03899
Std Dev 0.9402

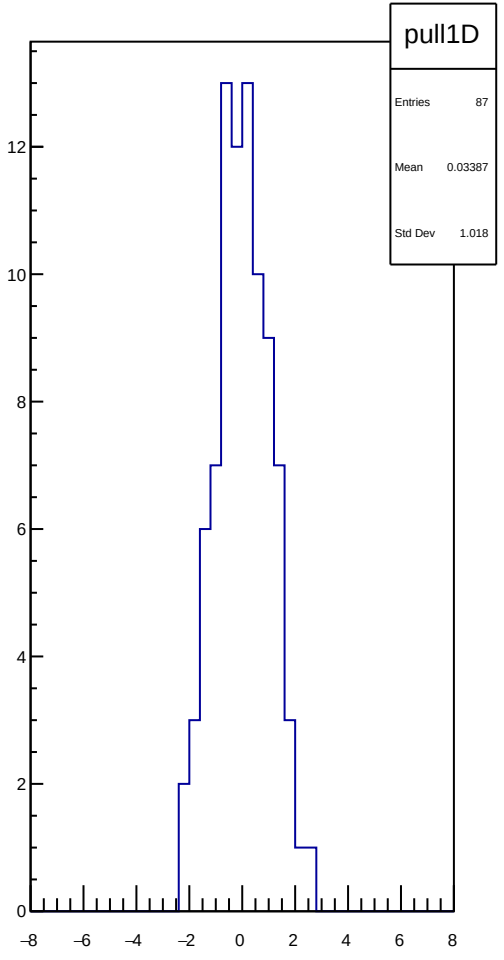

diff_bpm4eY_rms vs run
χ² / ndf 3.709e+04 / 86
p0 5168 ± 3.936
7500
7000
6500
6000
5500
5000
4500
4000

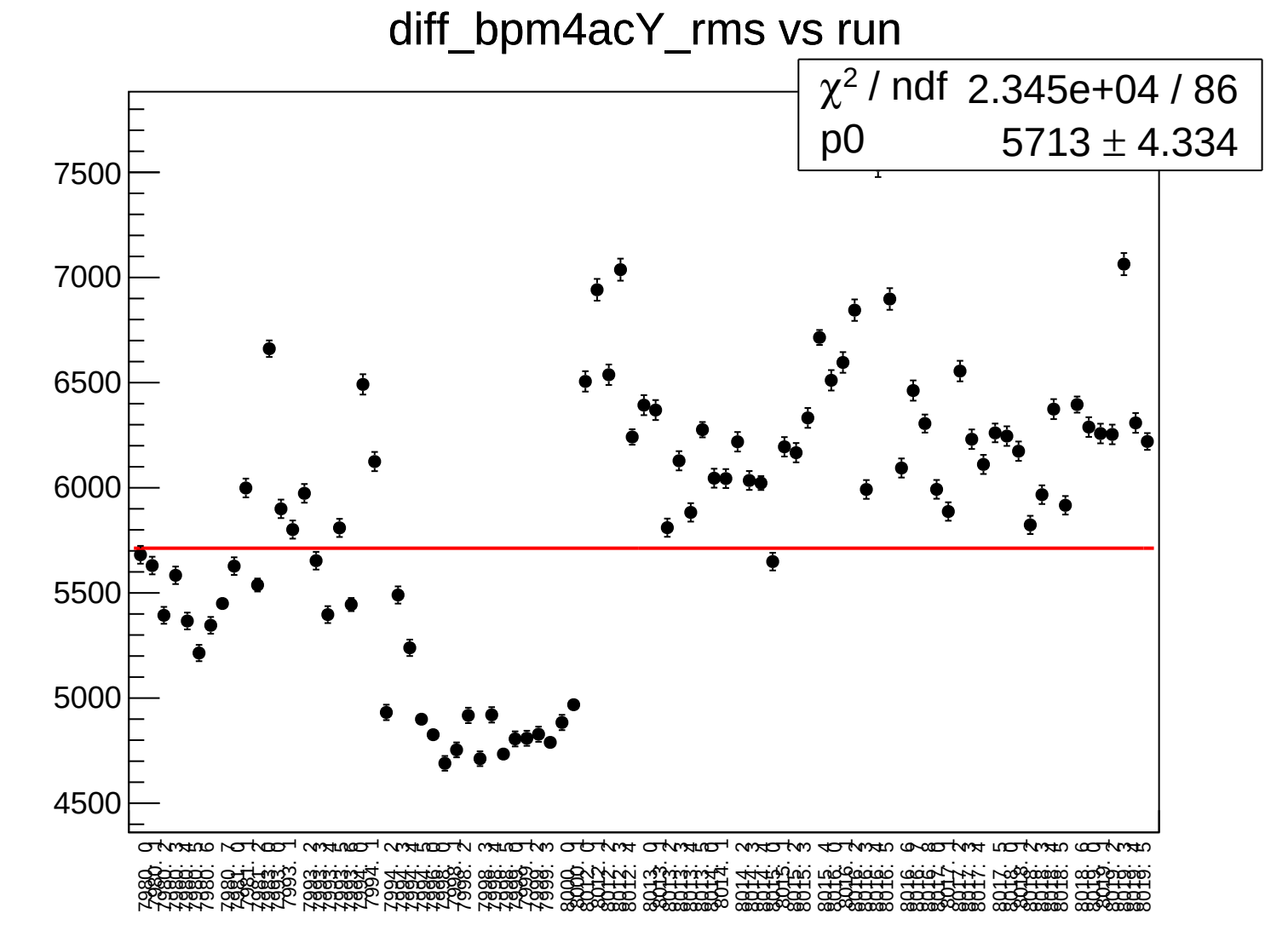

diff_bpm4acX_mean vs run
χ² / ndf 117.4 / 86
p0 21.67 ± 23.49
pull
Entries 87
Mean 381.2
Std Dev 0

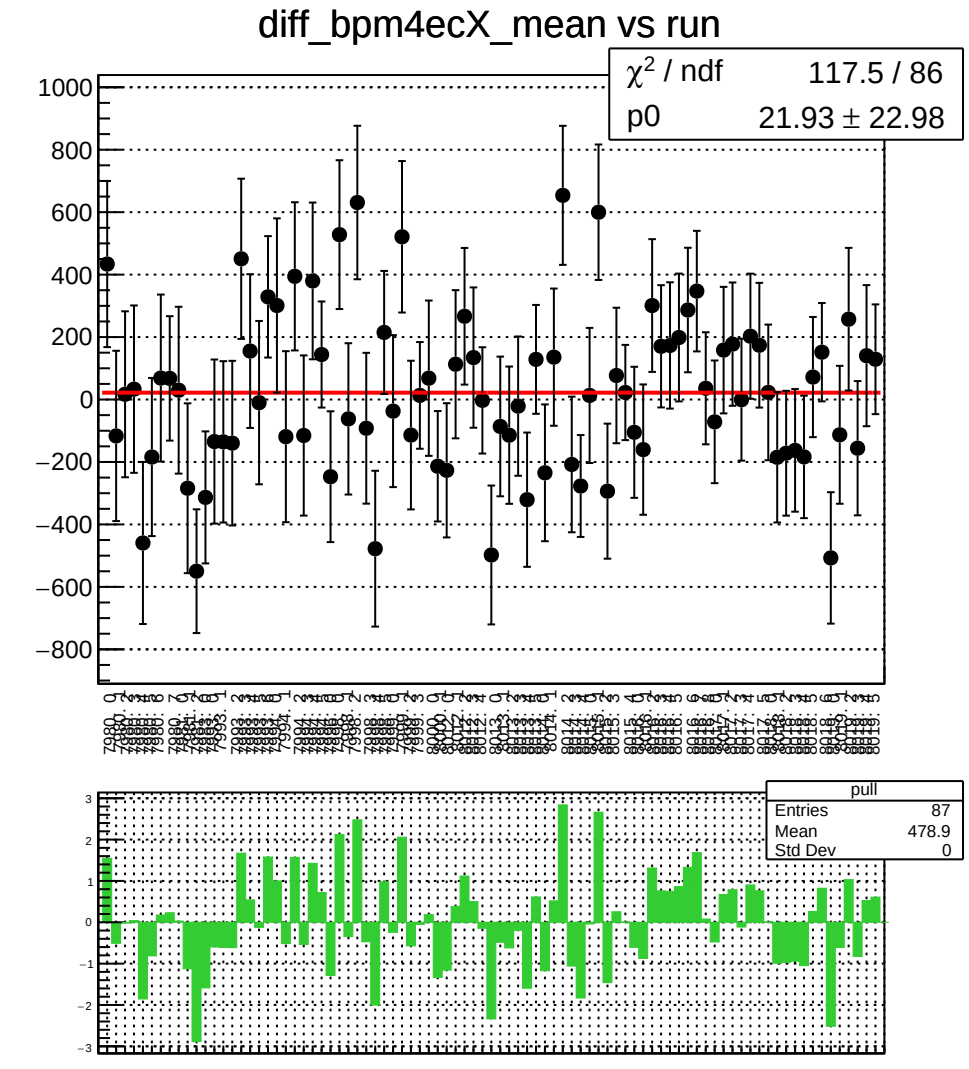

pull1D
Entries 87
Mean 0.003417
Std Dev 1.161

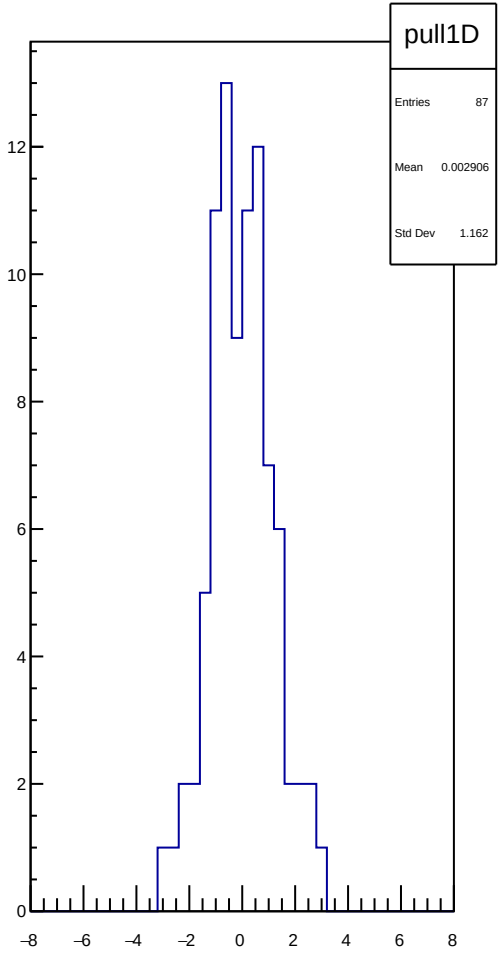

diff_bpm4acX_rms vs run
χ² / ndf 1.67e+04 / 86
p0 2.193e+04 ± 16.61
26000
24000
22000
20000
18000

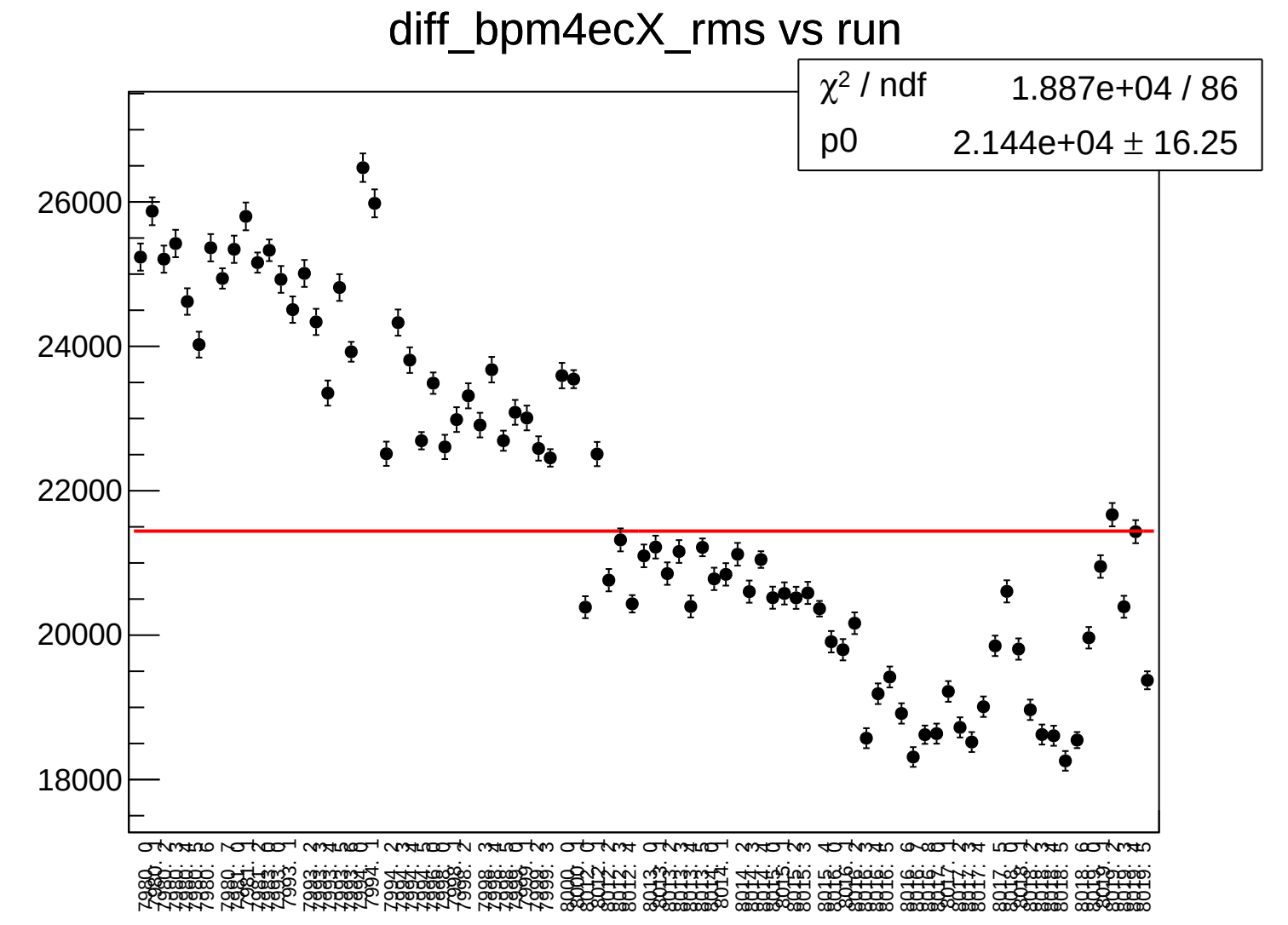

diff_bpm4acY_mean vs run
χ² / ndf 90.22 / 86
p0 8.063 ± 6.129
pull
Entries 87
Mean 39.18
Std Dev 42.76

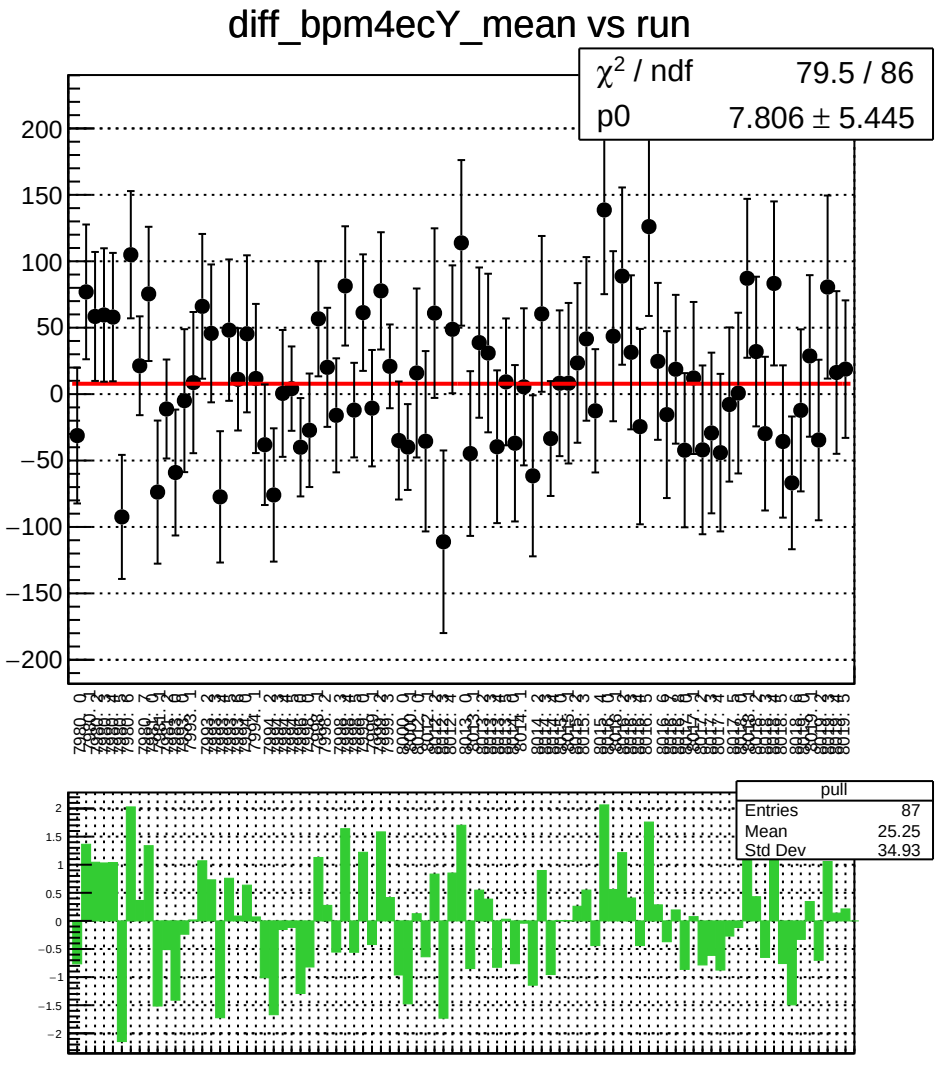

pull1D
Entries 87
Mean 0.03387
Std Dev 1.018

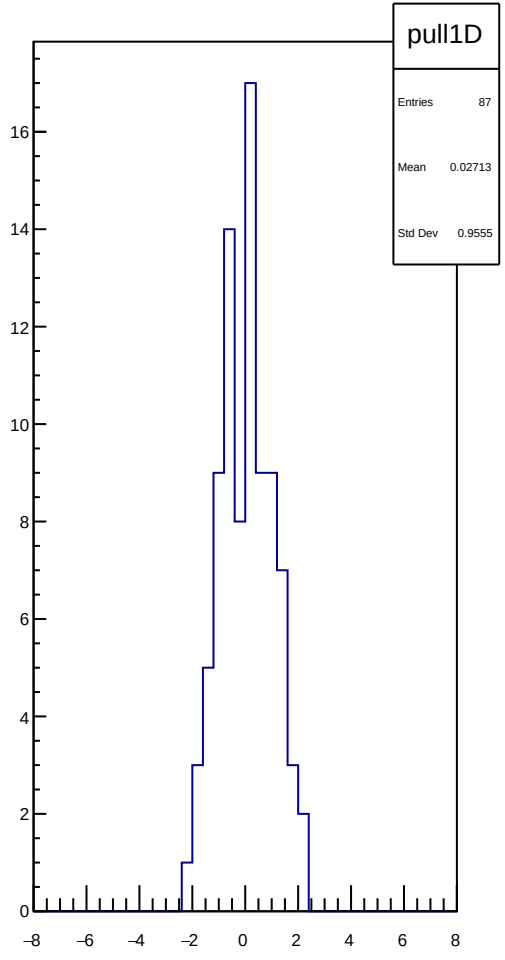

diff_bpm4acY_rms vs run
χ² / ndf 2.345e+04 / 86
p0 5713 ± 4.334
7500
7000
6500
6000
5500
5000
4500

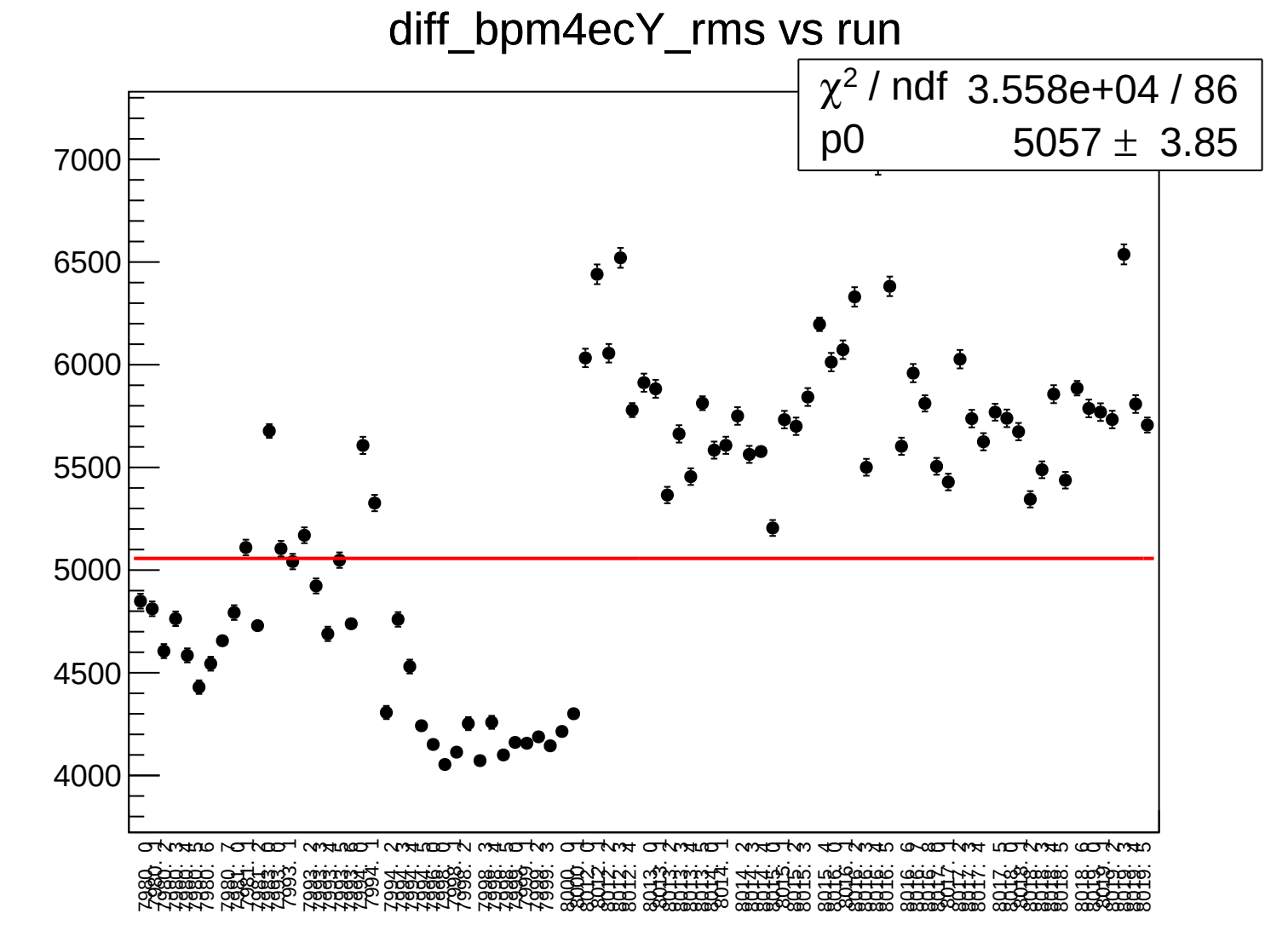

diff_bpm4ecX_mean vs run
χ² / ndf 117.5 / 86
p0 21.93 ± 22.98
pull
Entries 87
Mean 478.9
Std Dev 0

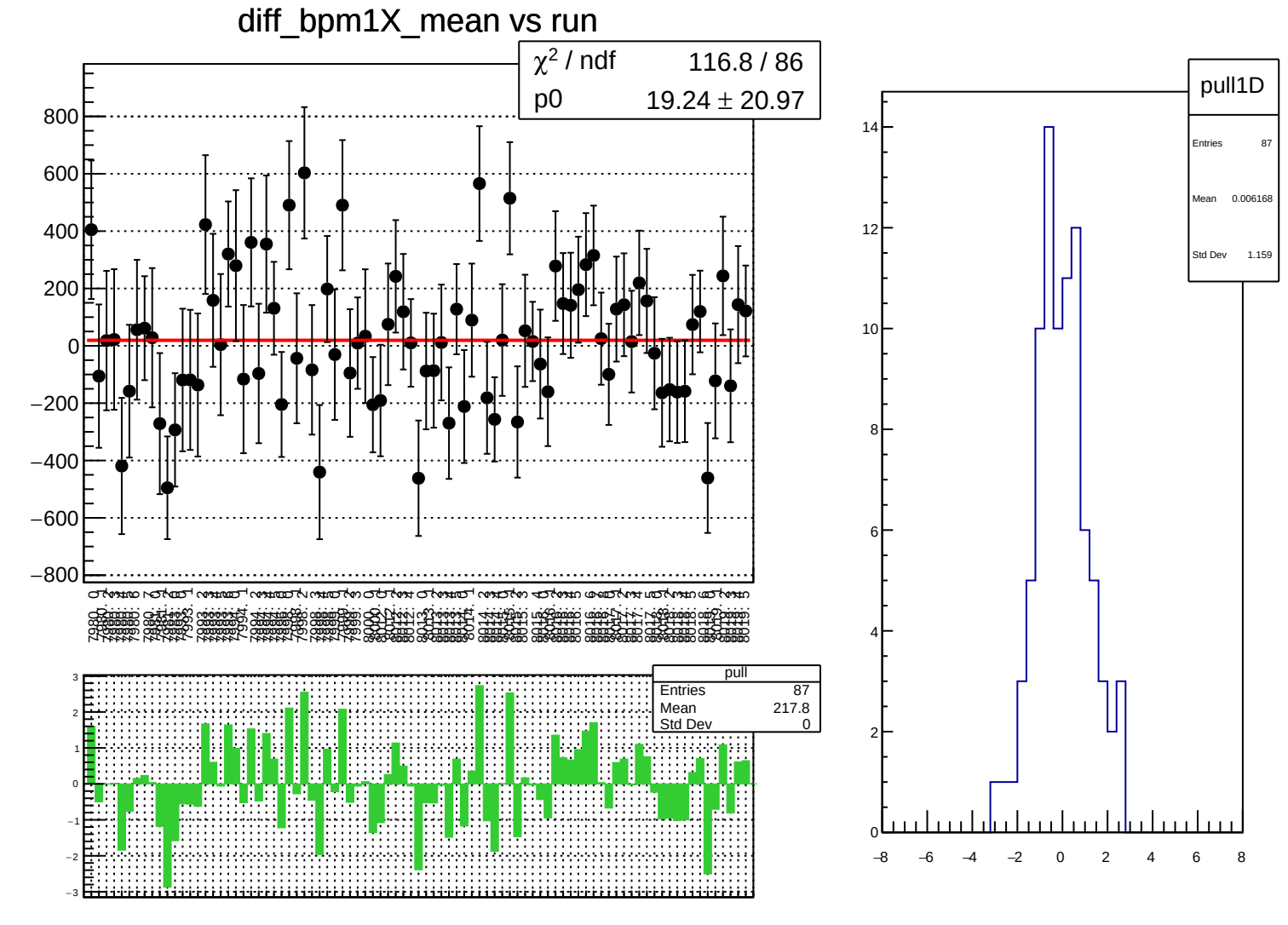

pull1D
Entries 87
Mean 0.002906
Std Dev 1.162

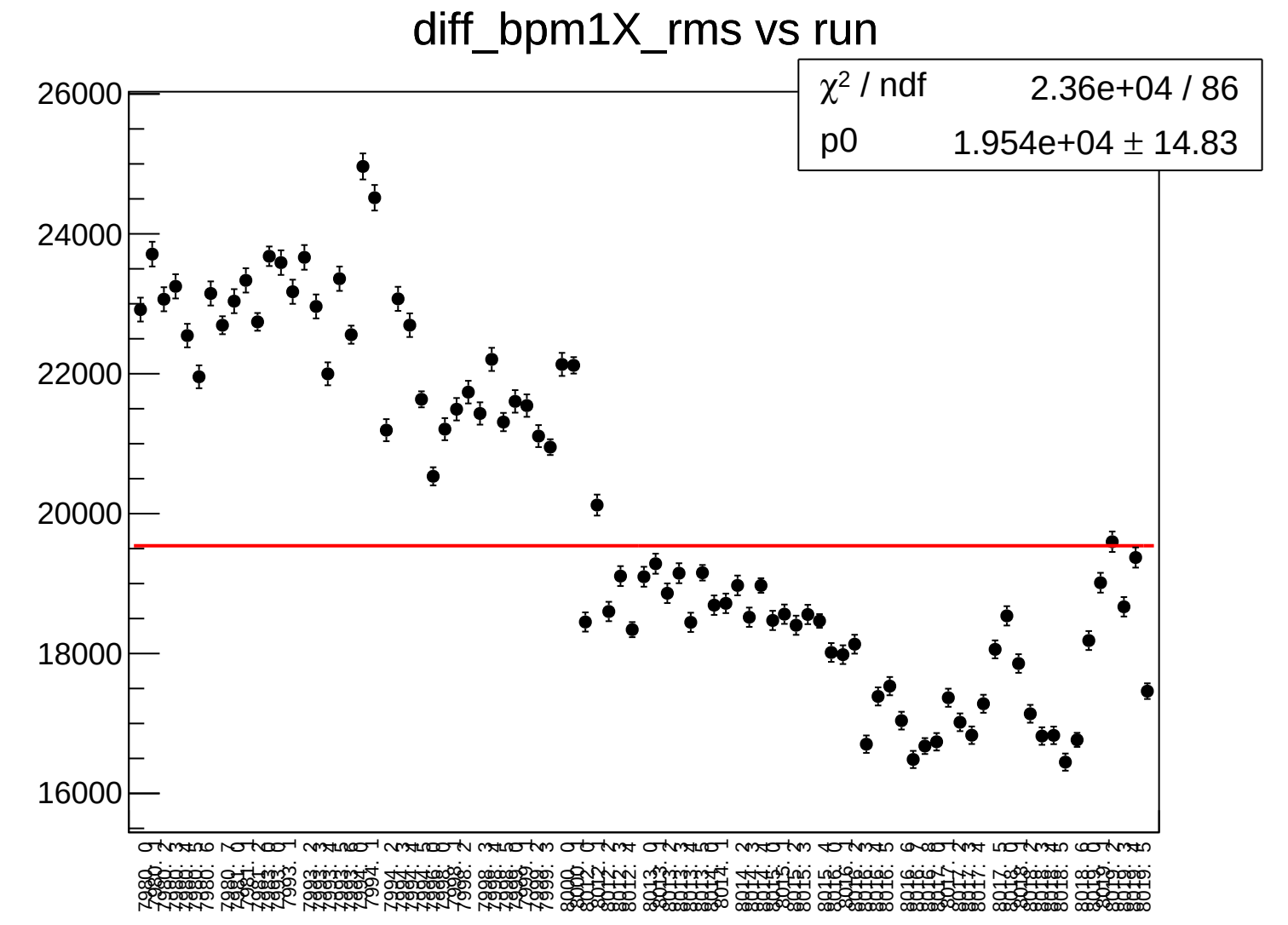

diff_bpm4ecX_rms vs run
χ² / ndf 1.887e+04 / 86
p0 2.144e+04 ± 16.25
26000
24000
22000
20000
18000

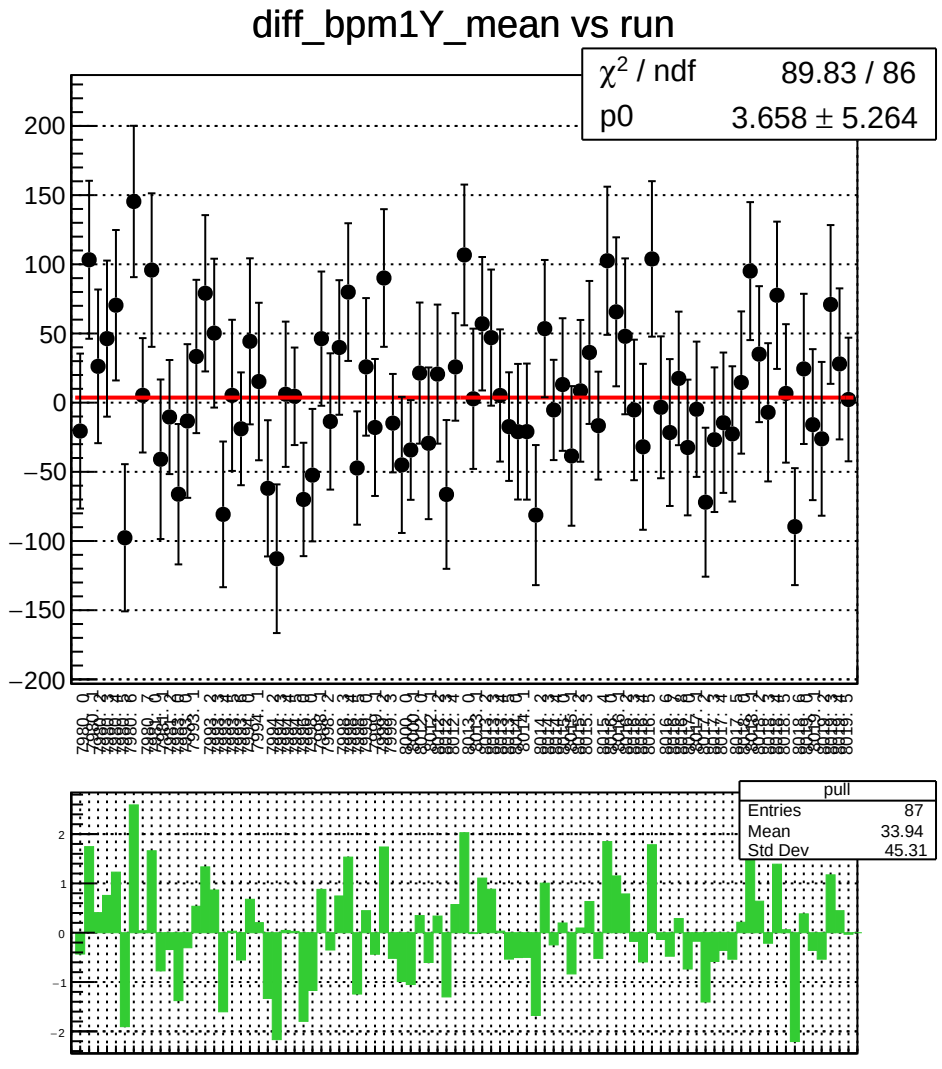

diff_bpm4ecY_mean vs run
χ² / ndf 79.5 / 86
p0 7.806 ± 5.445
pull
Entries 87
Mean 25.25
Std Dev 34.93

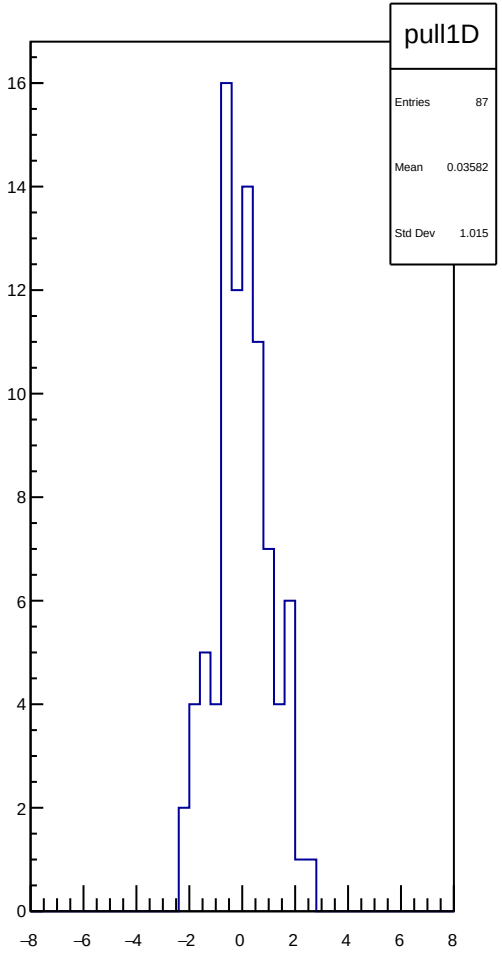

pull1D
Entries 87
Mean 0.02713
Std Dev 0.9555

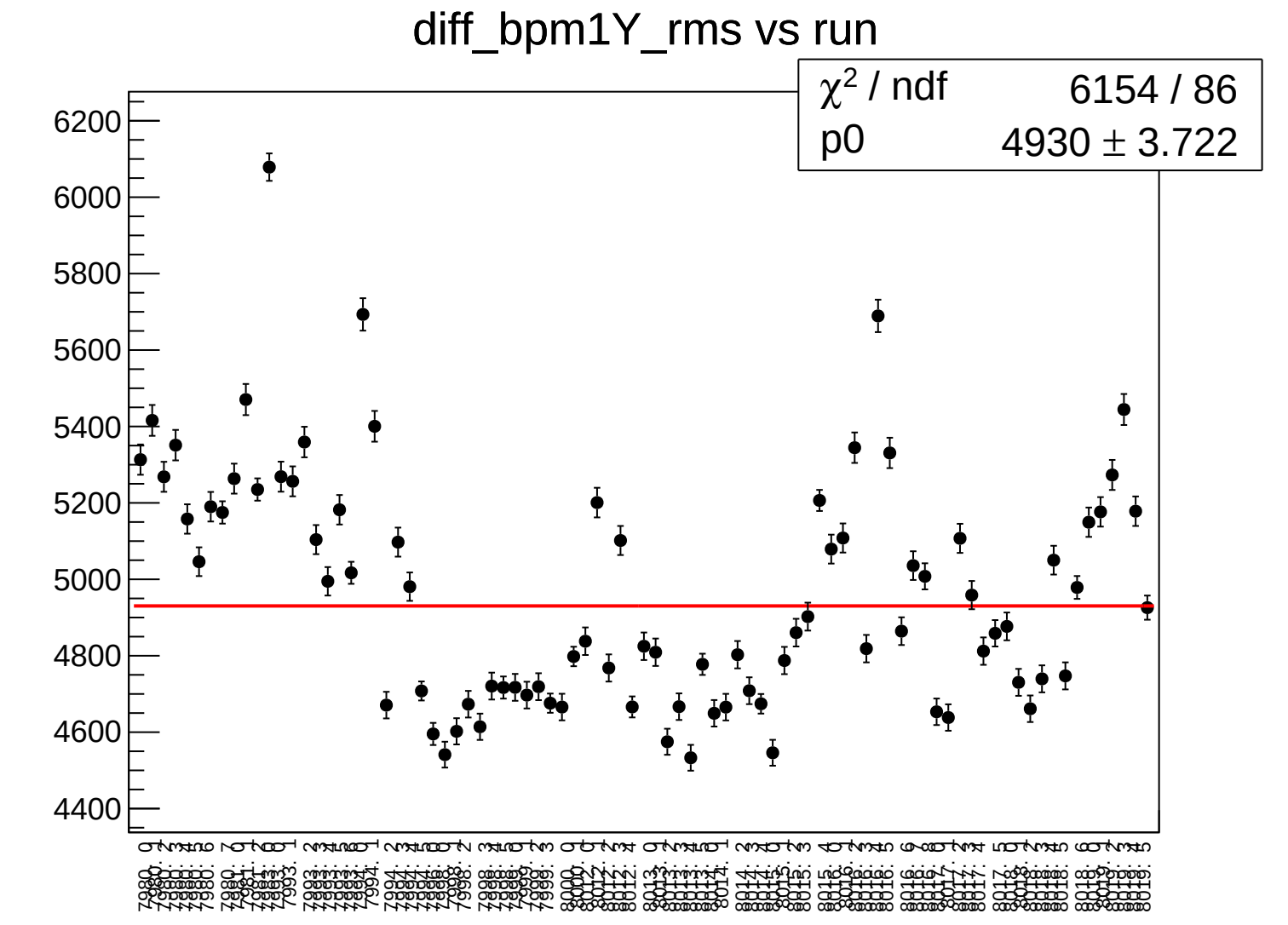

diff_bpm4ecY_rms vs run
χ² / ndf 3.558e+04 / 86
p0 5057 ± 3.85
7000
6500
6000
5500
5000
4500
4000

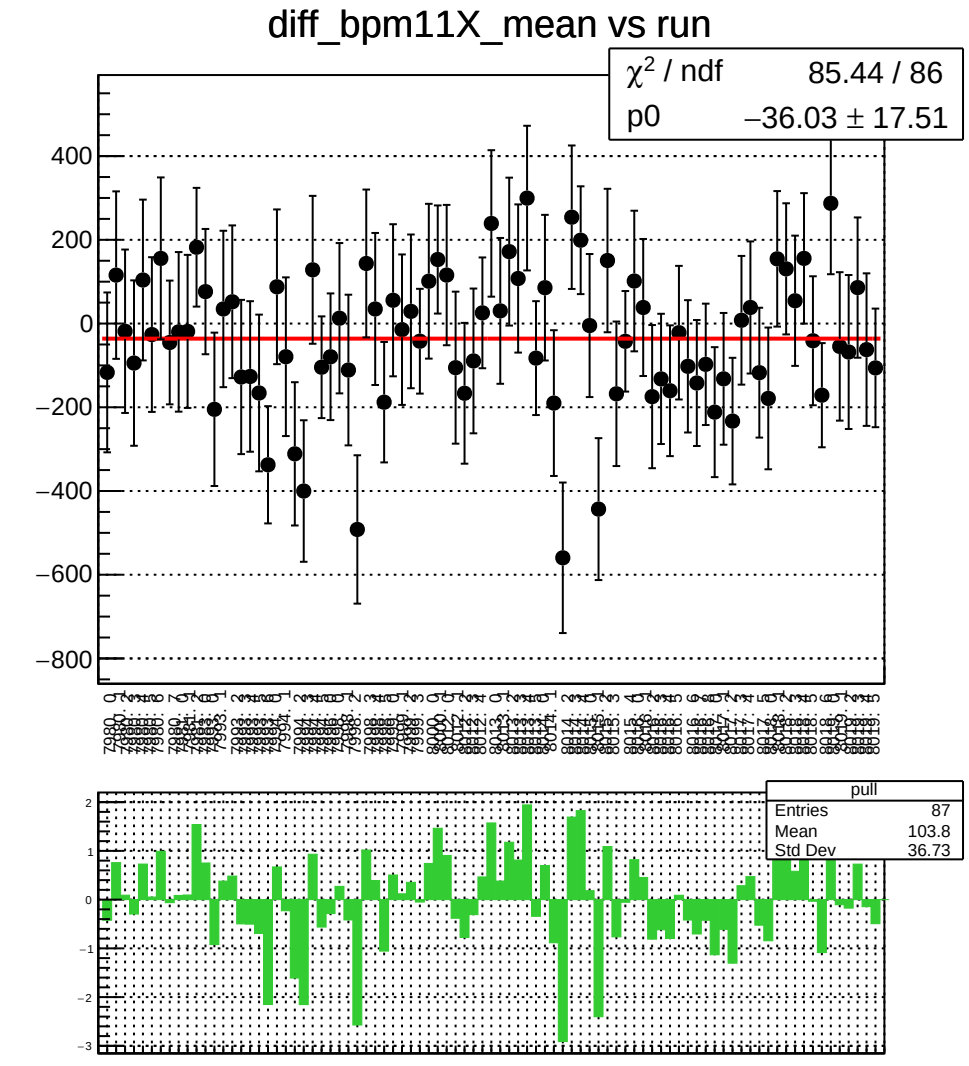

diff_bpm1X_mean vs run
χ² / ndf 116.8 / 86
p0 19.24 ± 20.97
pull
Entries 87
Mean 217.8
Std Dev 0
pull1D
Entries 87
Mean 0.006168
Std Dev 1.159

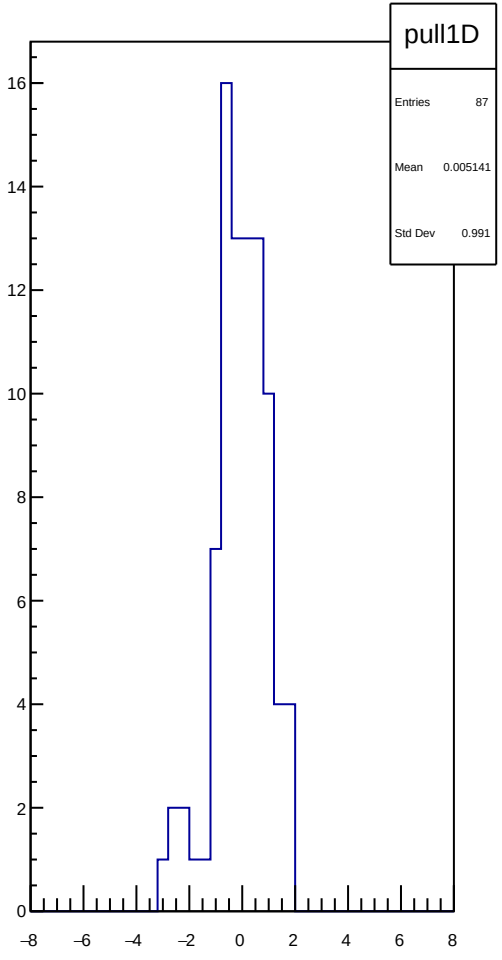

diff_bpm1X_rms vs run
χ² / ndf 2.36e+04 / 86
p0 1.954e+04 ± 14.83
26000
24000
22000
20000
18000
16000

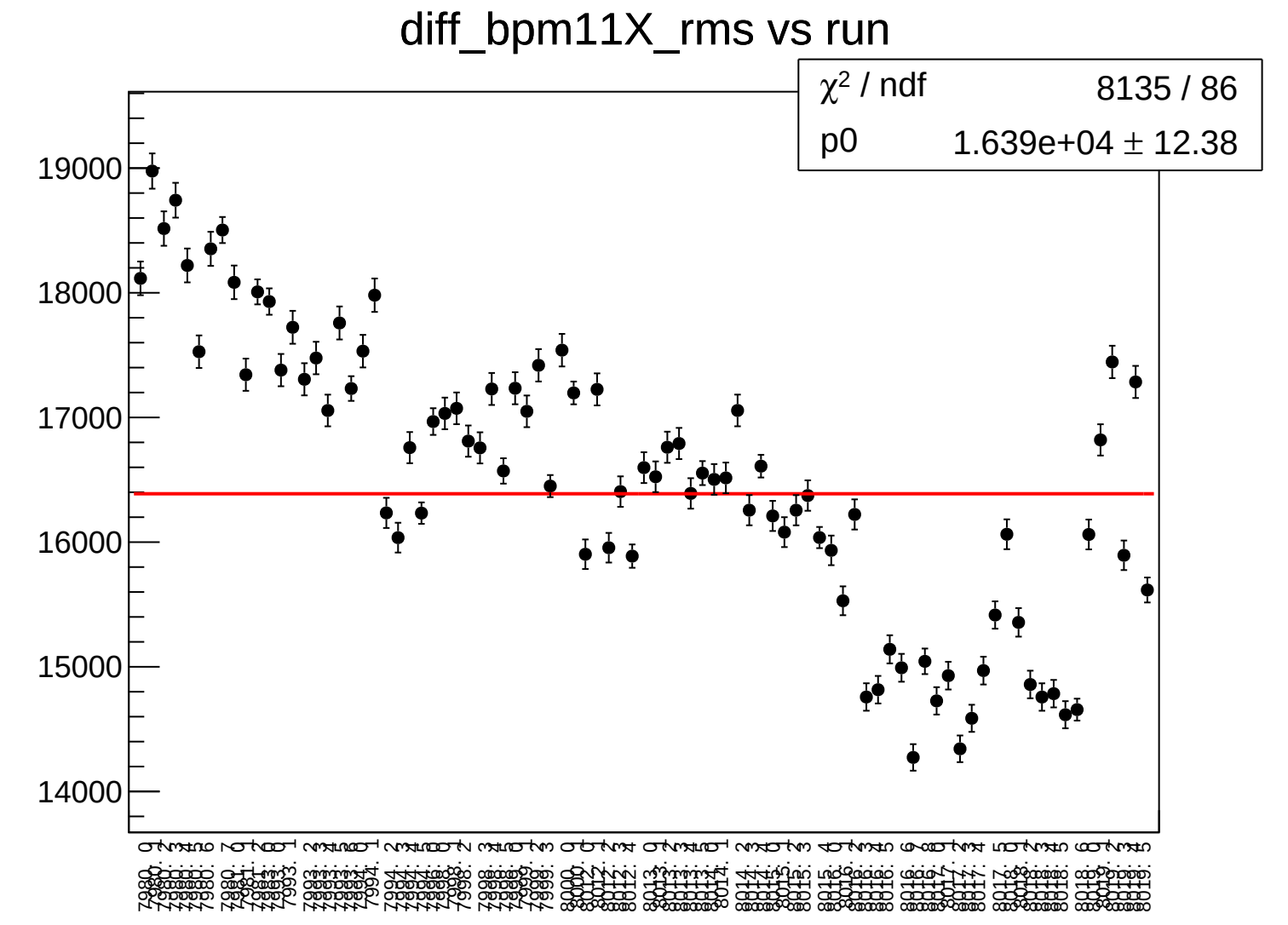

diff_bpm1Y_mean vs run
χ² / ndf 89.83 / 86
p0 3.658 ± 5.264
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean 33.94
Std Dev 45.31
2
1
0
−1
−2

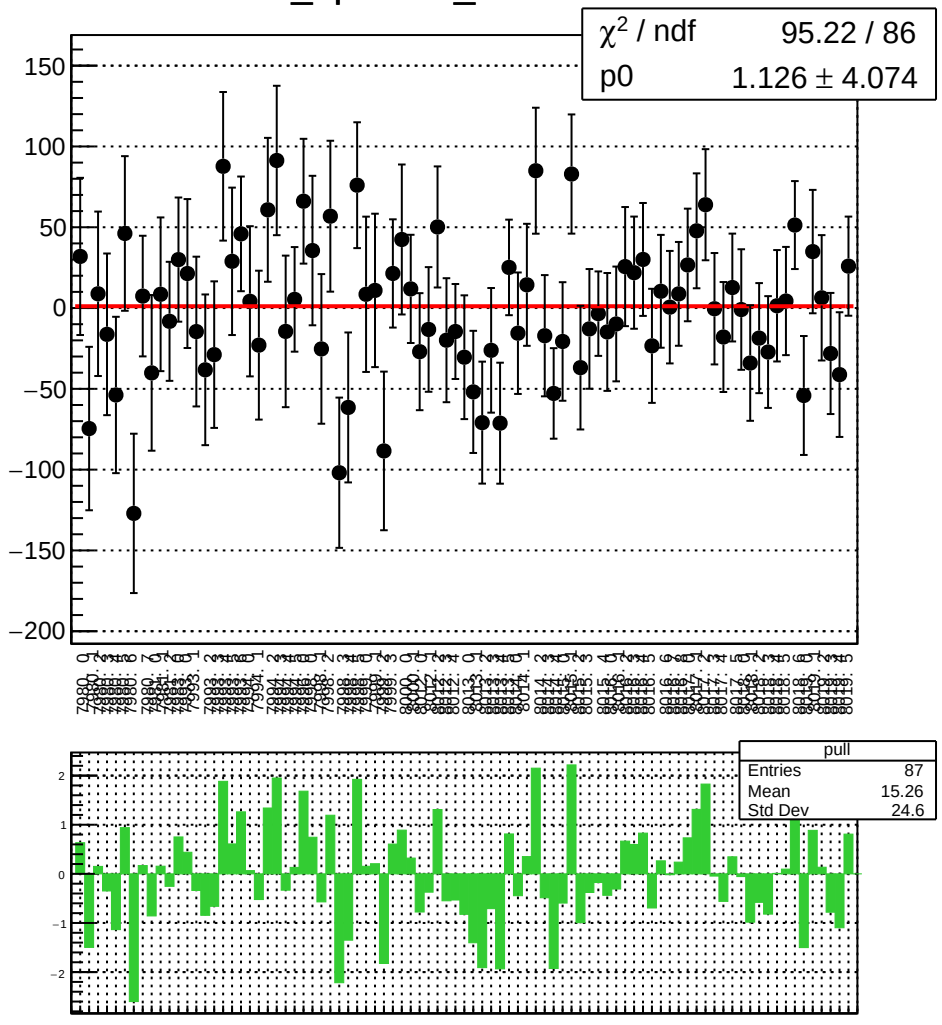

pull1D
Entries 87
Mean 0.03582
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

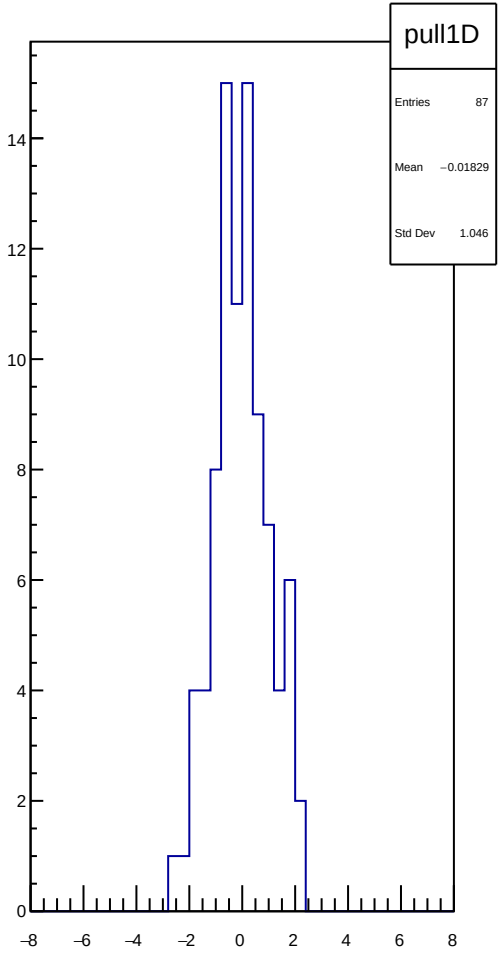

diff_bpm1Y_rms vs run
χ^2 / ndf 6154 / 86
p0 4930 ± 3.722
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

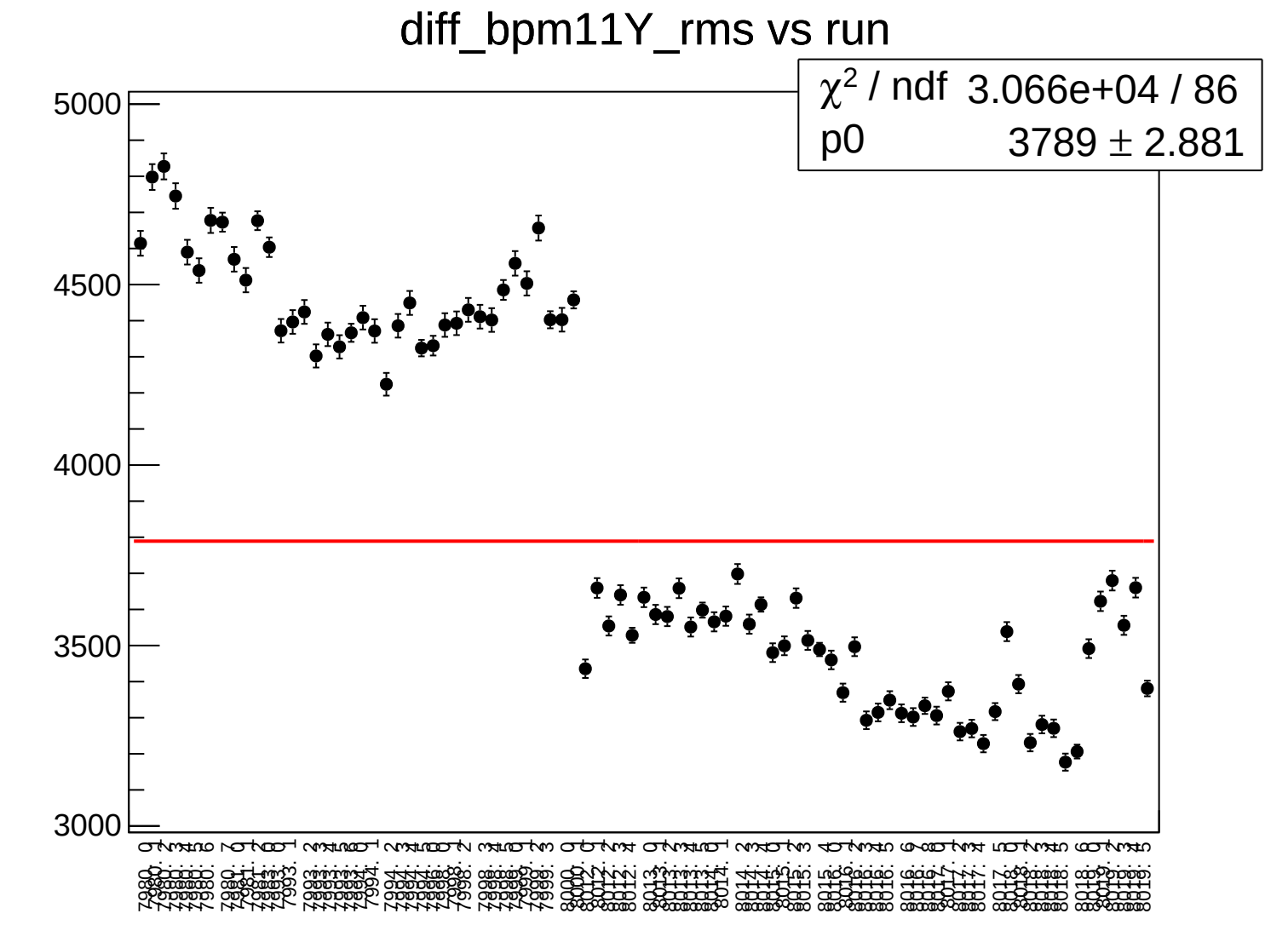

diff_bpm11X_mean vs run
χ² / ndf 85.44 / 86
p0 −36.03 ± 17.51
pull
Entries 87
Mean 103.8
Std Dev 36.73

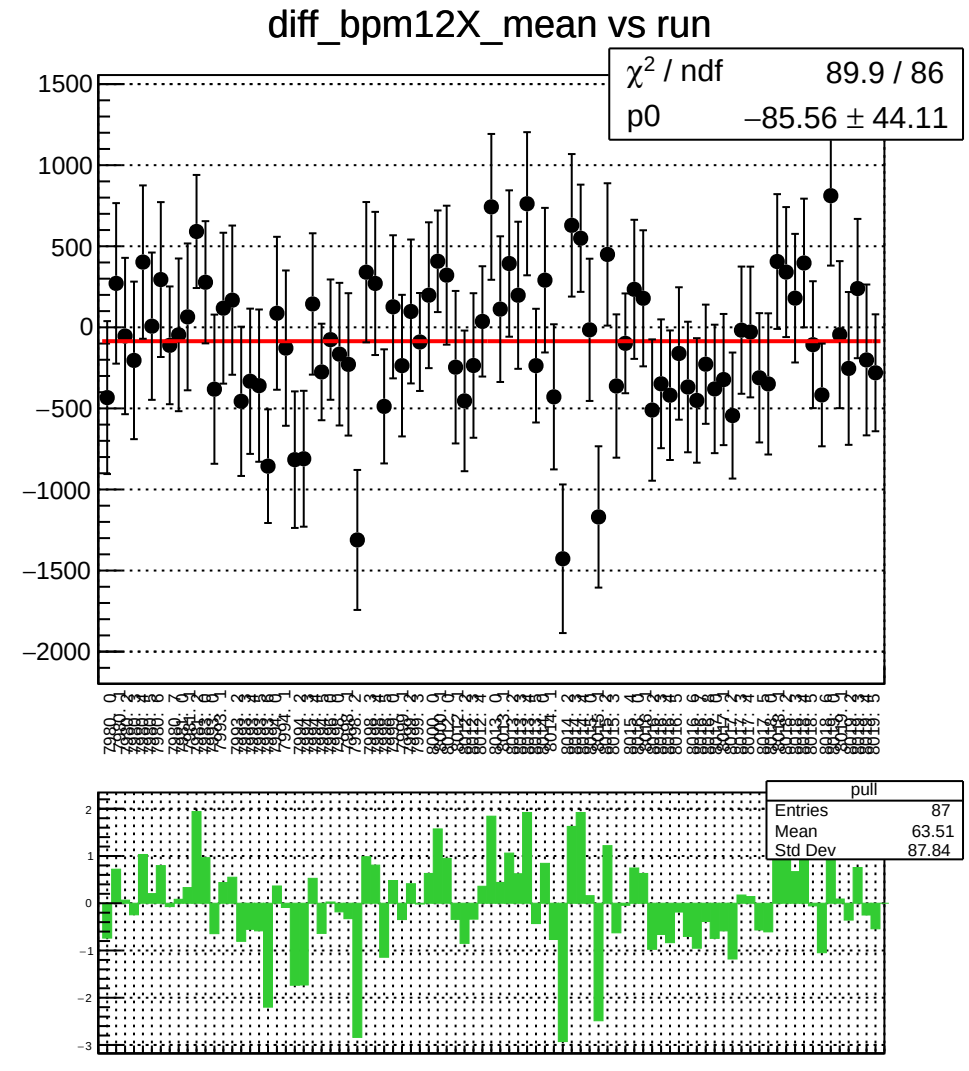

pull1D
Entries 87
Mean 0.005141
Std Dev 0.991

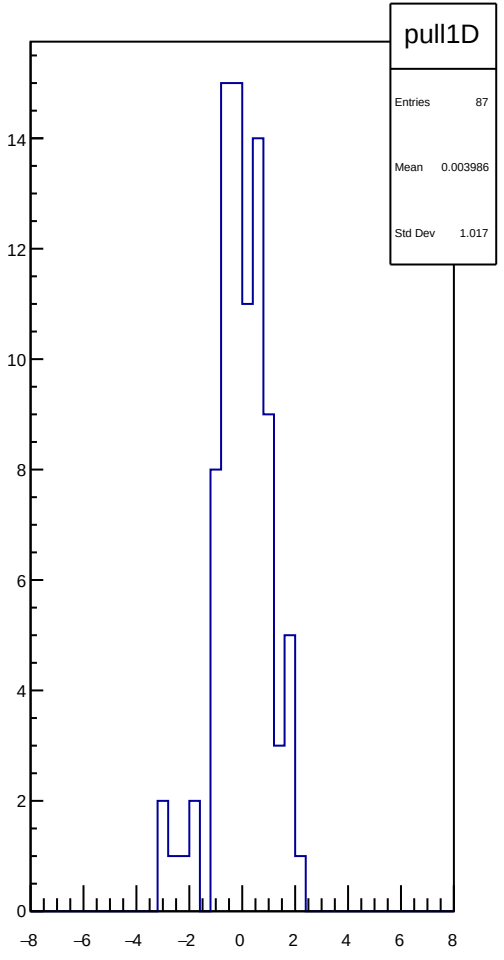

diff_bpm11X_rms vs run
χ² / ndf 8135 / 86
p0 1.639e+04 ± 12.38
19000
18000
17000
16000
15000
14000

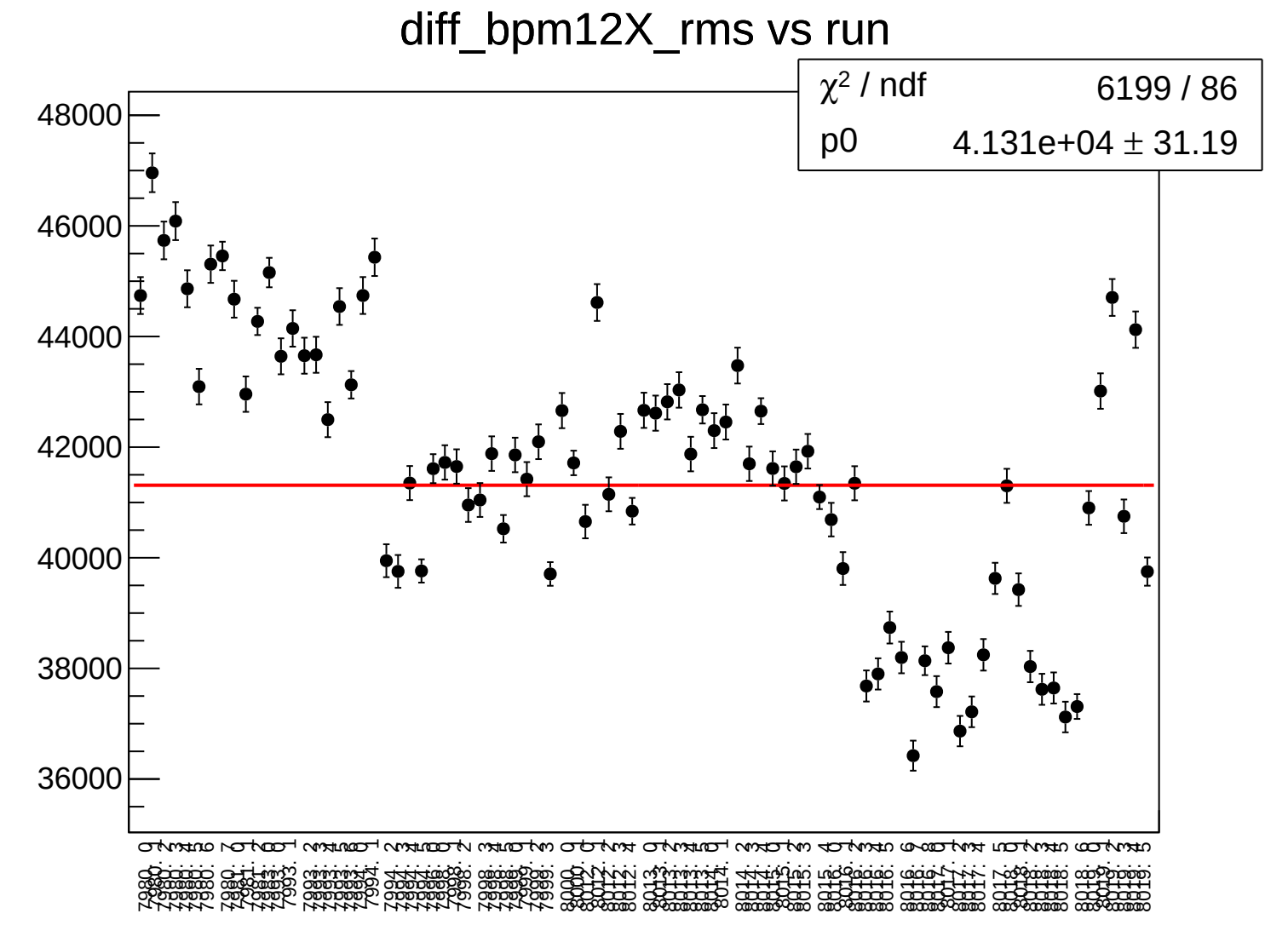

diff_bpm11Y_mean vs run
χ² / ndf 95.22 / 86
p0 1.126 ± 4.074
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean 15.26
Std Dev 24.6
2
1
0
−1
−2

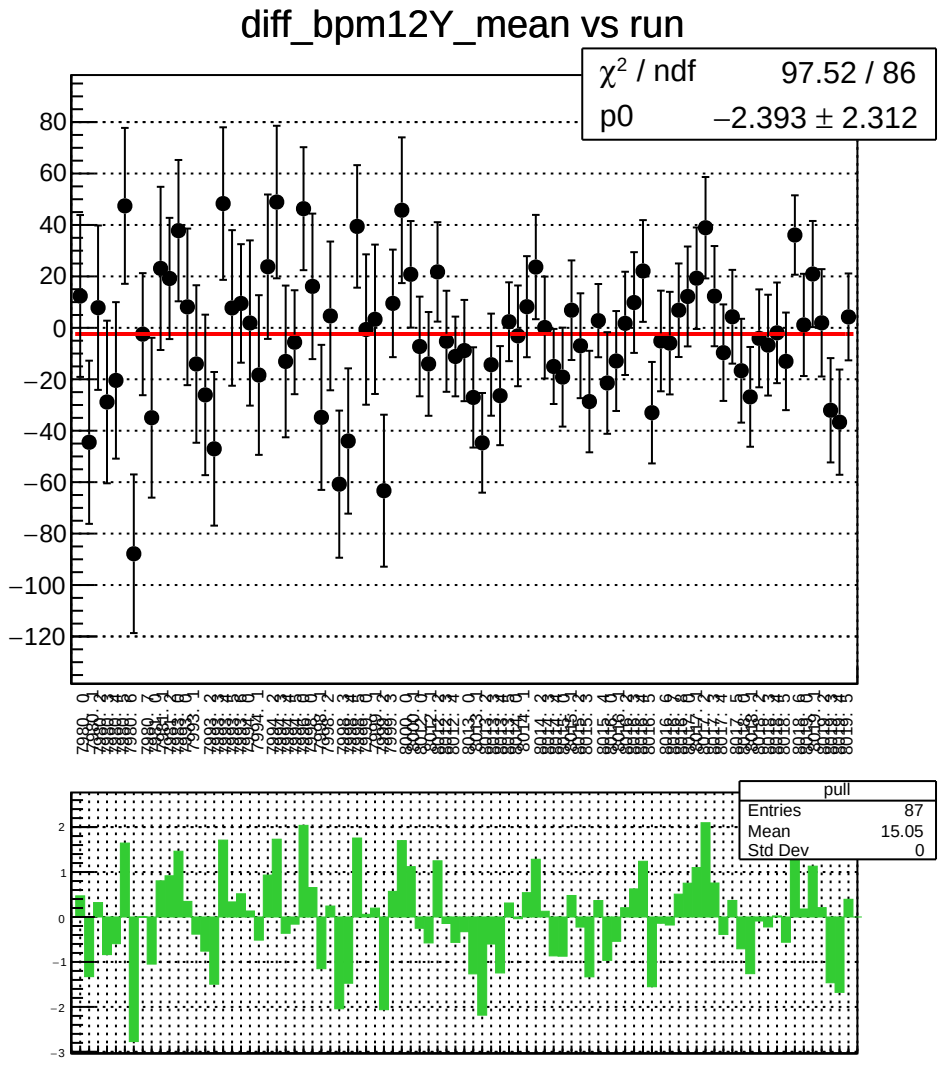

pull1D
Entries 87
Mean −0.01829
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

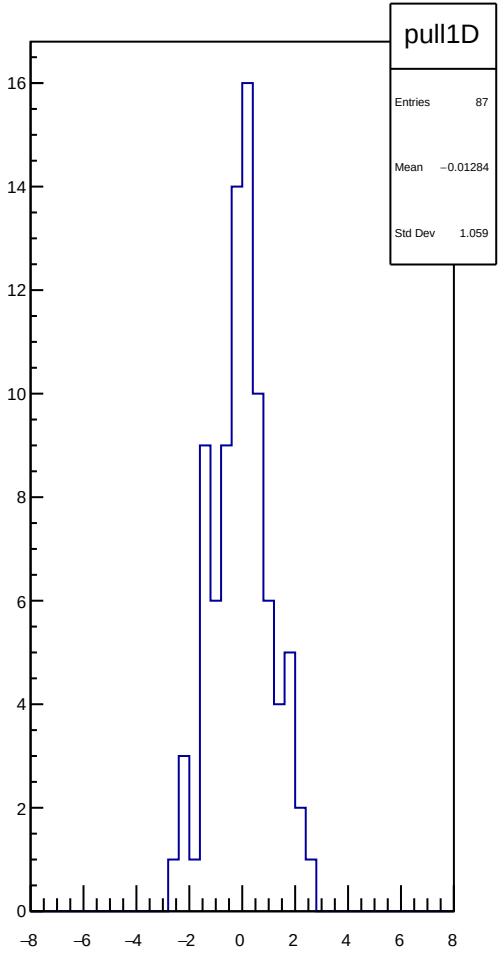

diff_bpm11Y_rms vs run
χ² / ndf 3.066e+04 / 86
p0 3789 ± 2.881
5000
4500
4000
3500
3000

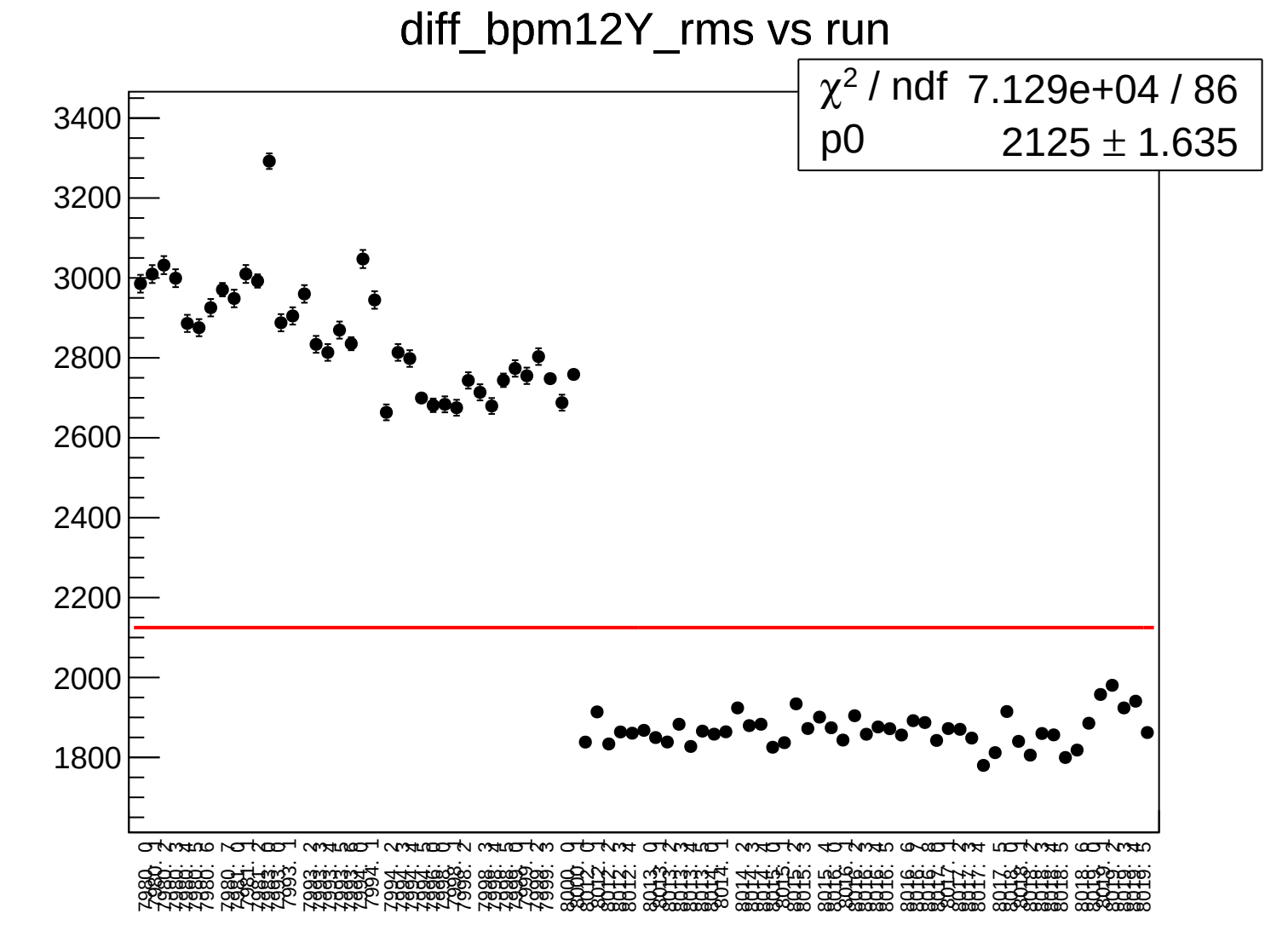

diff_bpm12X_mean vs run
χ² / ndf 89.9 / 86
p0 −85.56 ± 44.11
pull
Entries 87
Mean 63.51
Std Dev 87.84

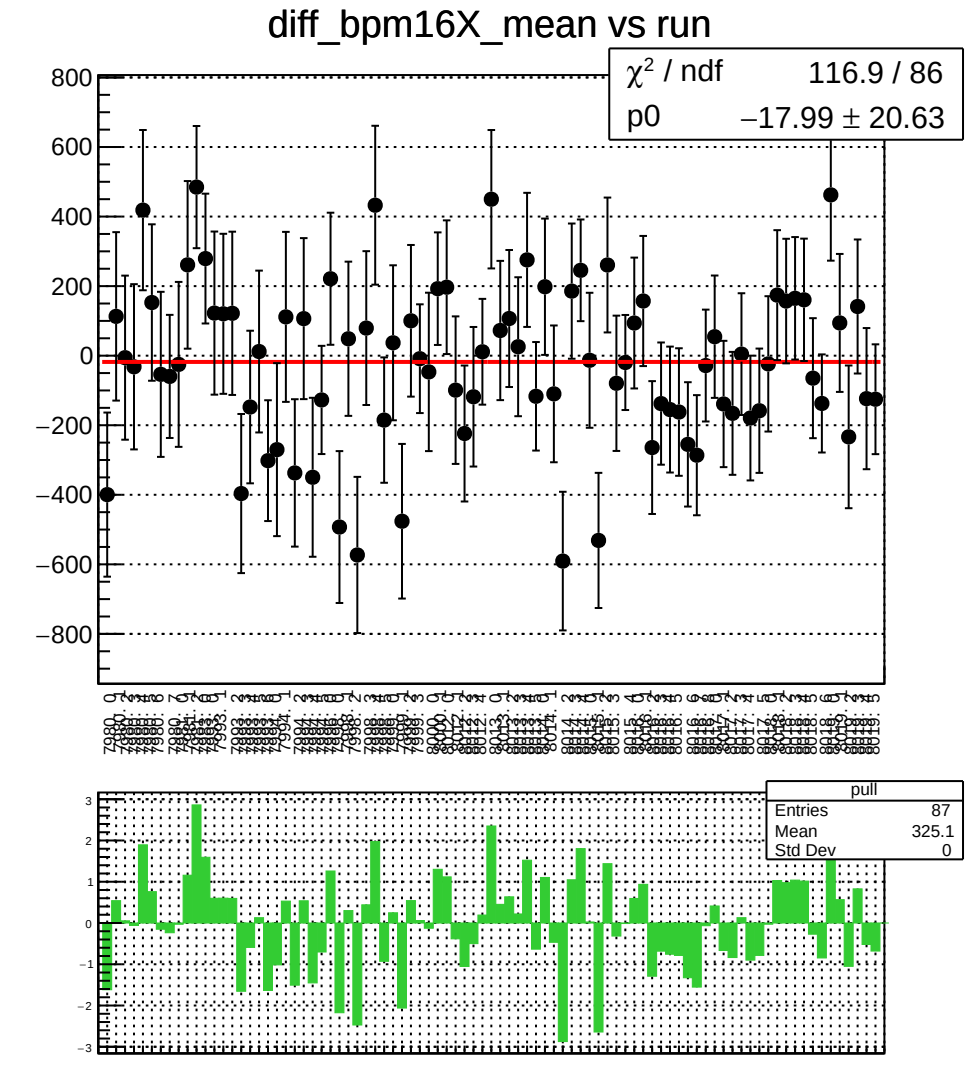

pull1D
Entries 87
Mean 0.003986
Std Dev 1.017

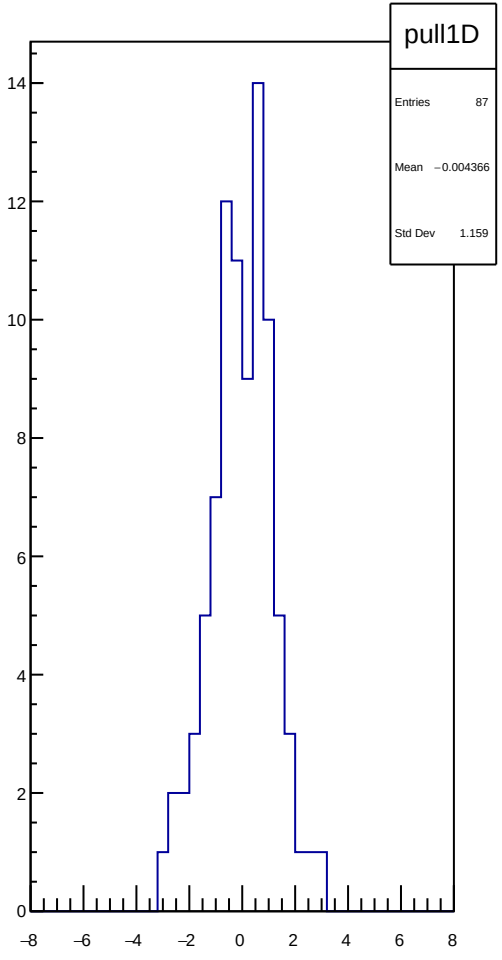

diff_bpm12X_rms vs run
χ² / ndf 6199 / 86
p0 4.131e+04 ± 31.19
48000
46000
44000
42000
40000
38000
36000

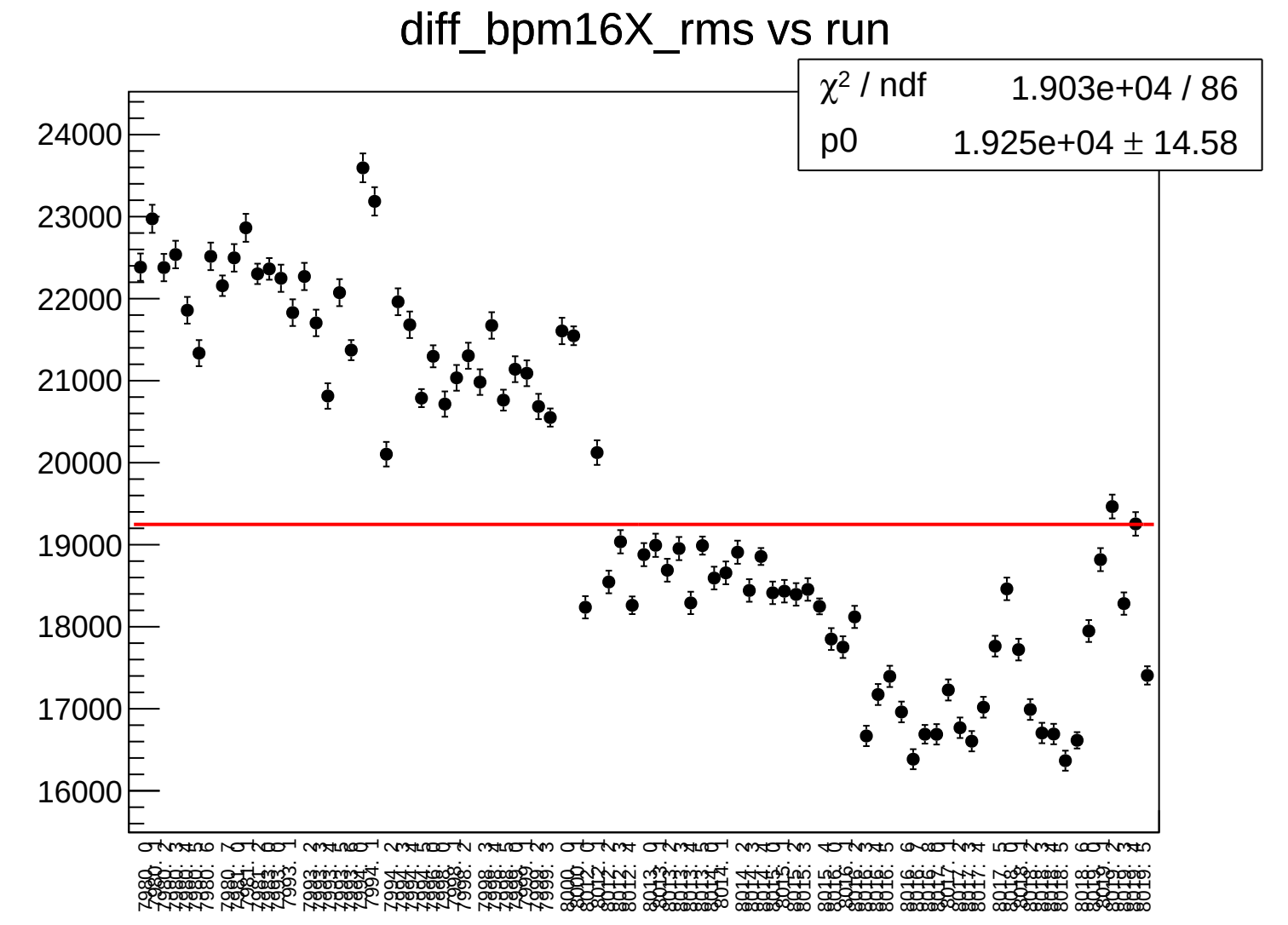

diff_bpm12Y_mean vs run
χ^2 / ndf 97.52 / 86
p0 −2.393 ± 2.312
pull
Entries 87
Mean 15.05
Std Dev 0

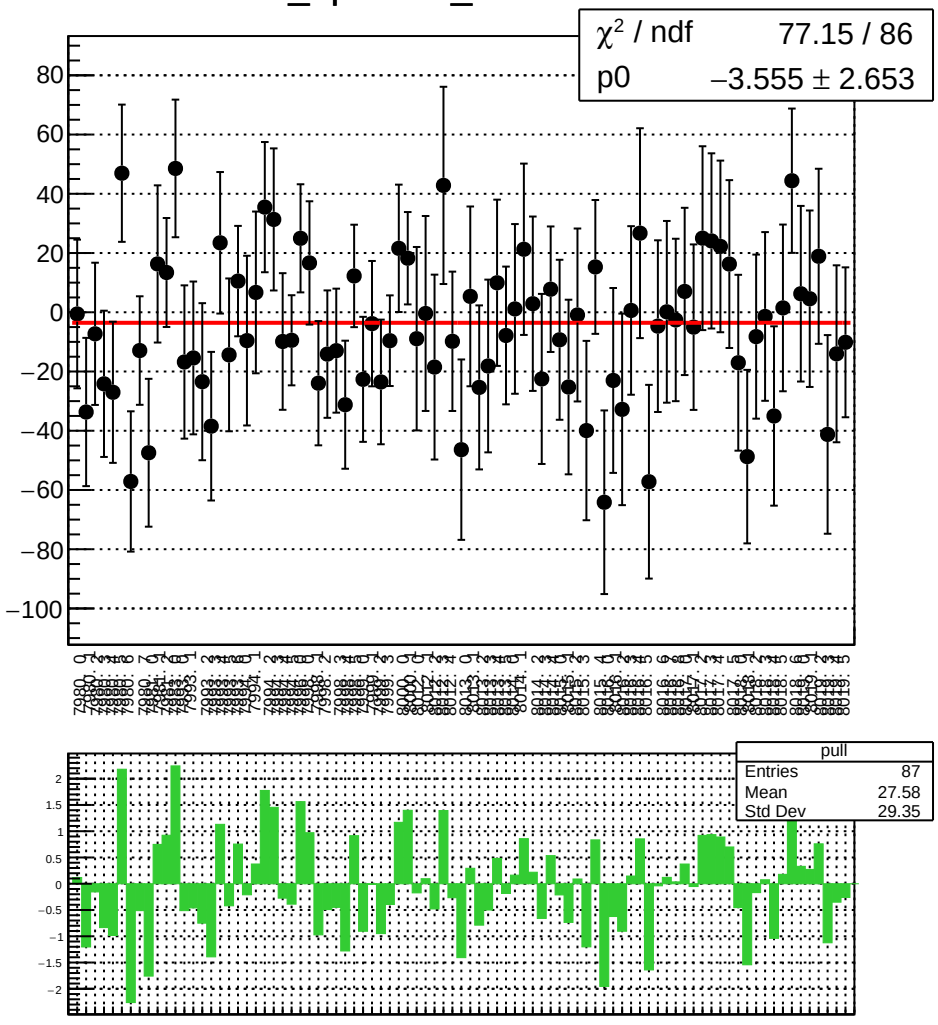

pull1D
Entries 87
Mean −0.01284
Std Dev 1.059

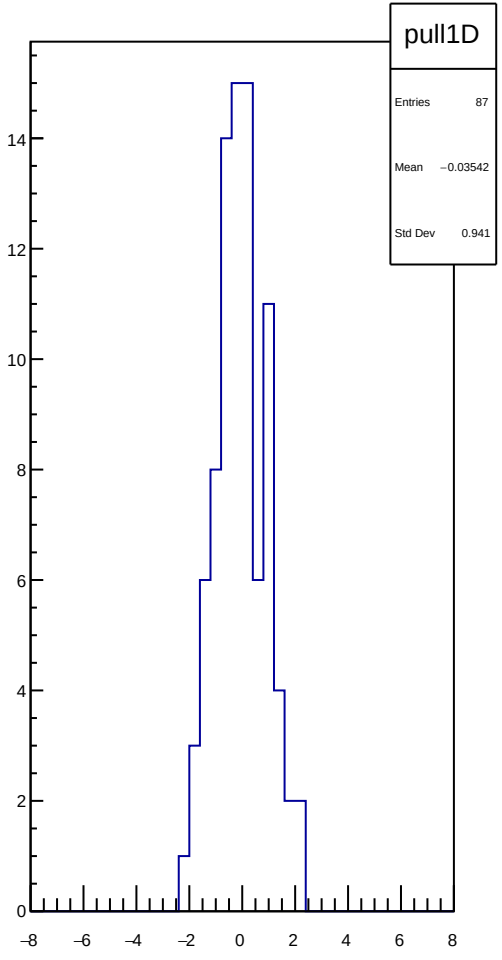

diff_bpm12Y_rms vs run
χ² / ndf 7.129e+04 / 86
p0 2125 ± 1.635
3400
3200
3000
2800
2600
2400
2200
2000
1800

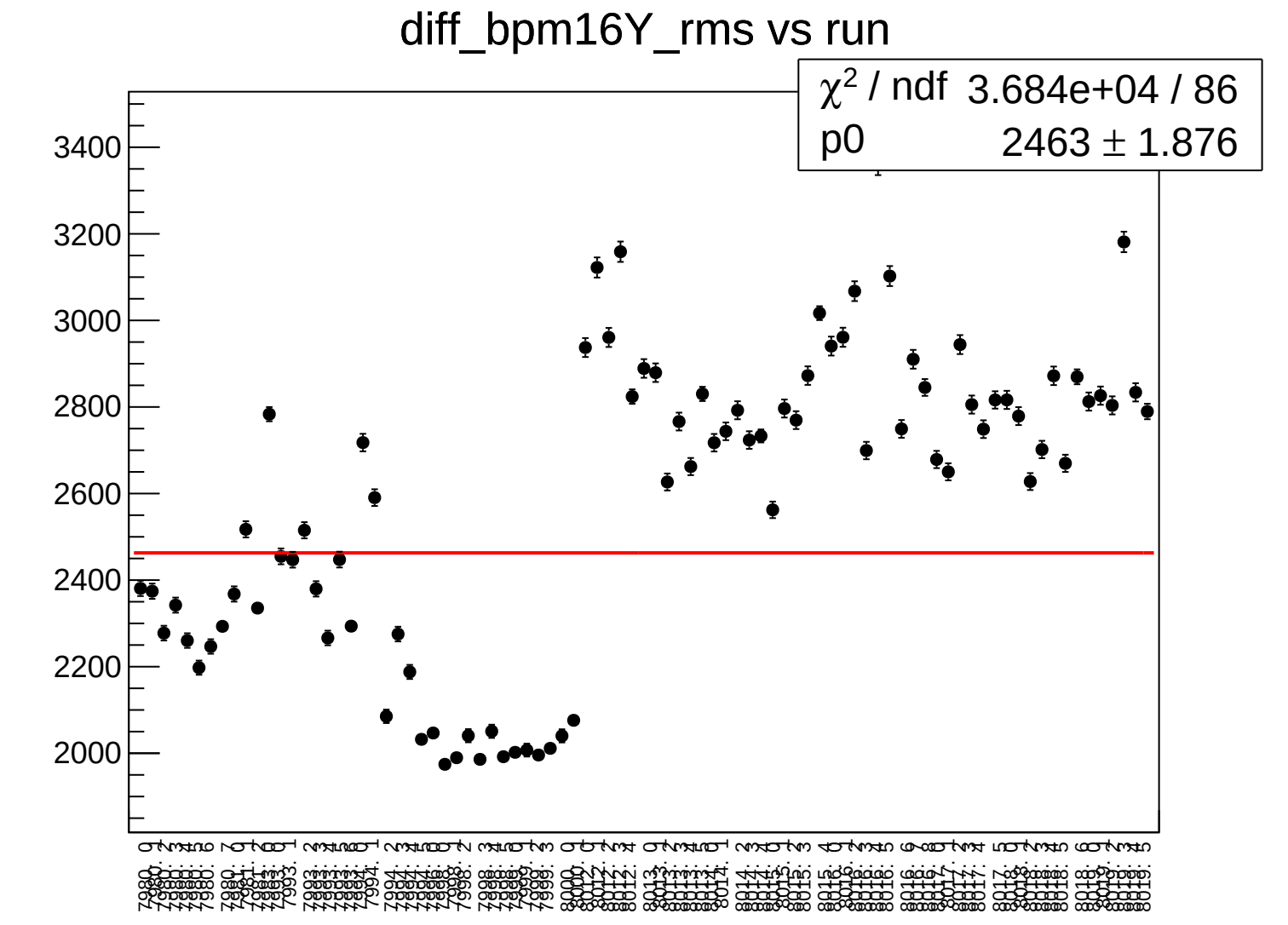

diff_bpm16X_mean vs run
χ² / ndf 116.9 / 86
p0 −17.99 ± 20.63
pull
Entries 87
Mean 325.1
Std Dev 0

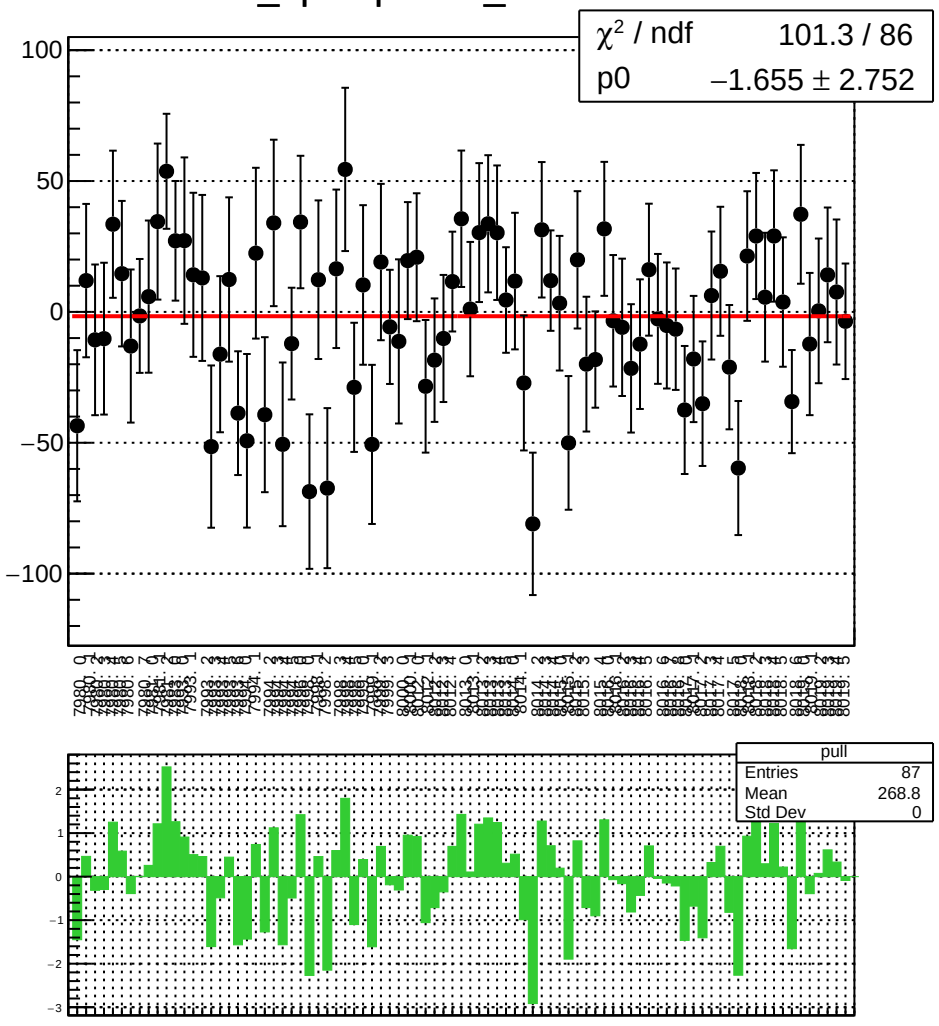

pull1D
Entries 87
Mean −0.004366
Std Dev 1.159

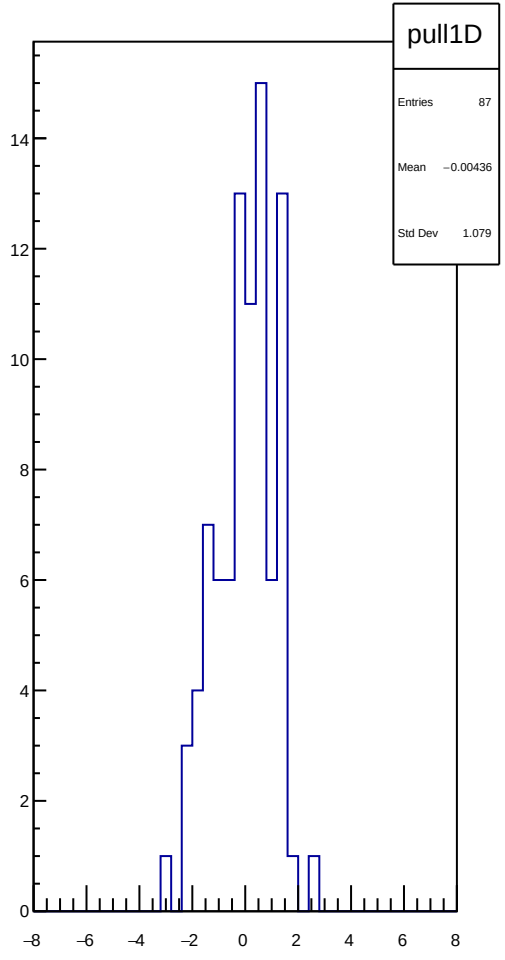

diff_bpm16X_rms vs run
χ² / ndf 1.903e+04 / 86
p0 1.925e+04 ± 14.58
24000
23000
22000
21000
20000
19000
18000
17000
16000

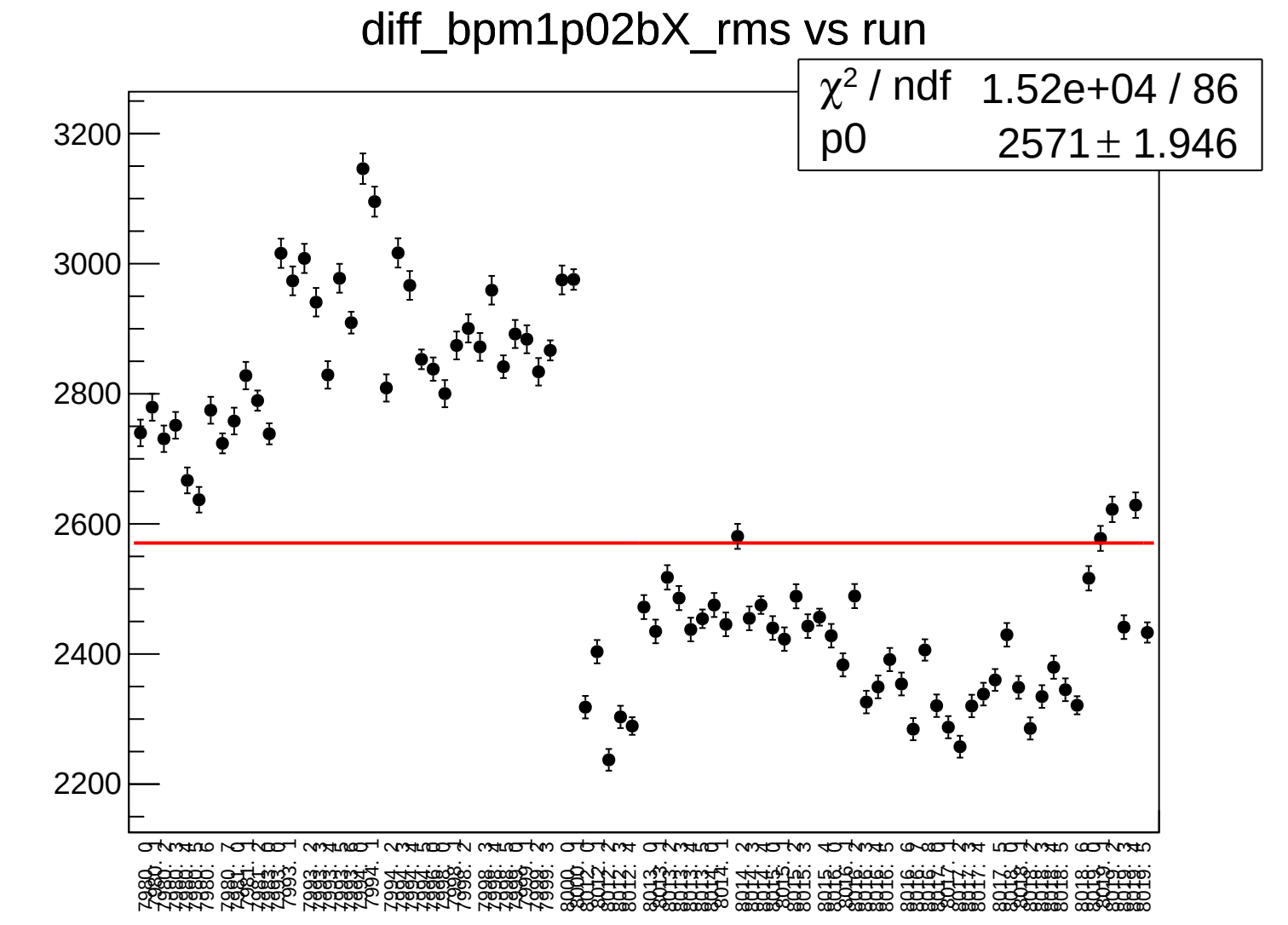

diff_bpm16Y_mean vs run
χ² / ndf 77.15 / 86
p0 −3.555 ± 2.653
pull
Entries 87
Mean 27.58
Std Dev 29.35

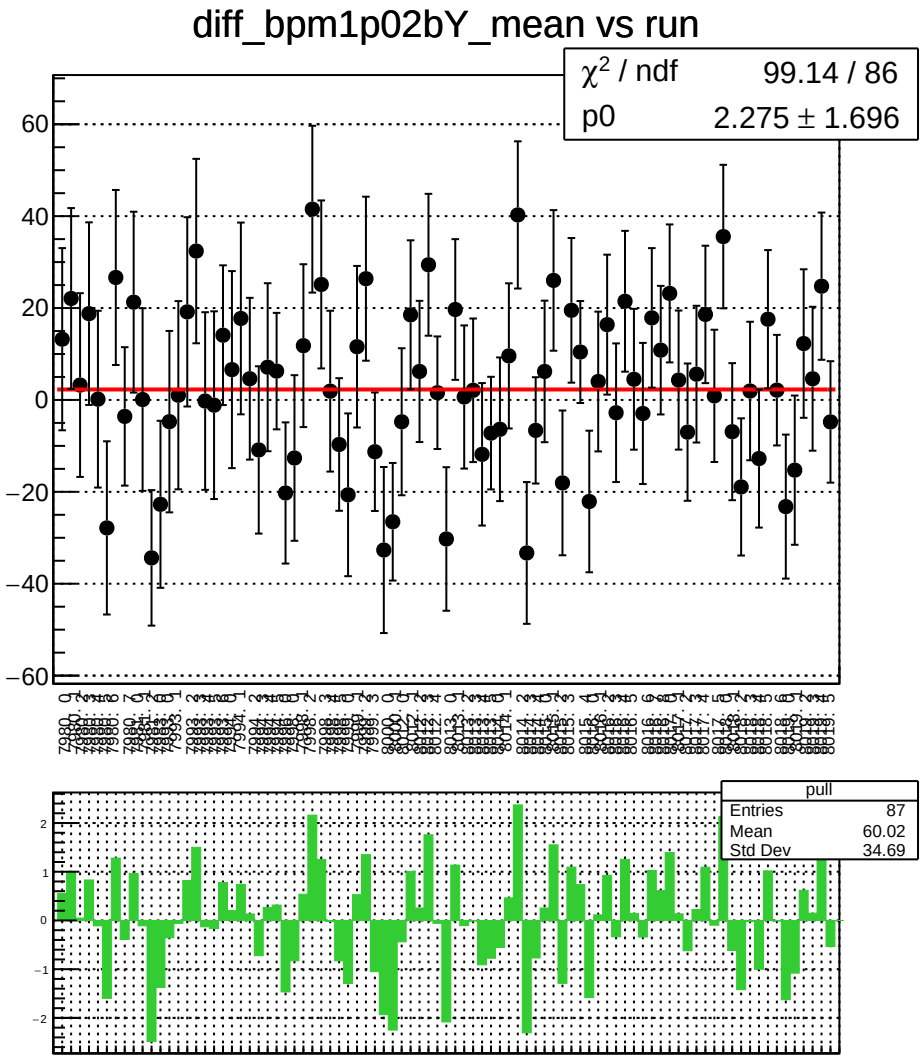

pull1D
Entries 87
Mean −0.03542
Std Dev 0.941

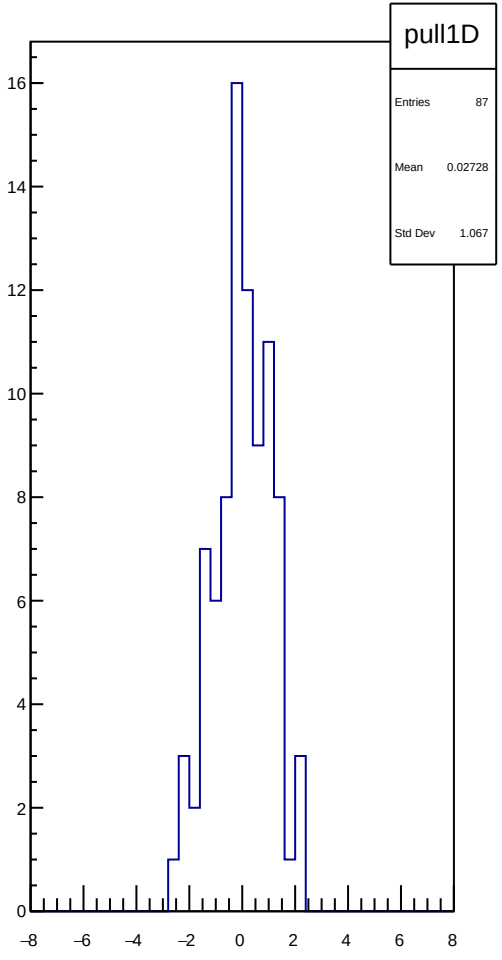

diff_bpm16Y_rms vs run
χ² / ndf 3.684e+04 / 86
p0 2463 ± 1.876
3400
3200
3000
2800
2600
2400
2200
2000

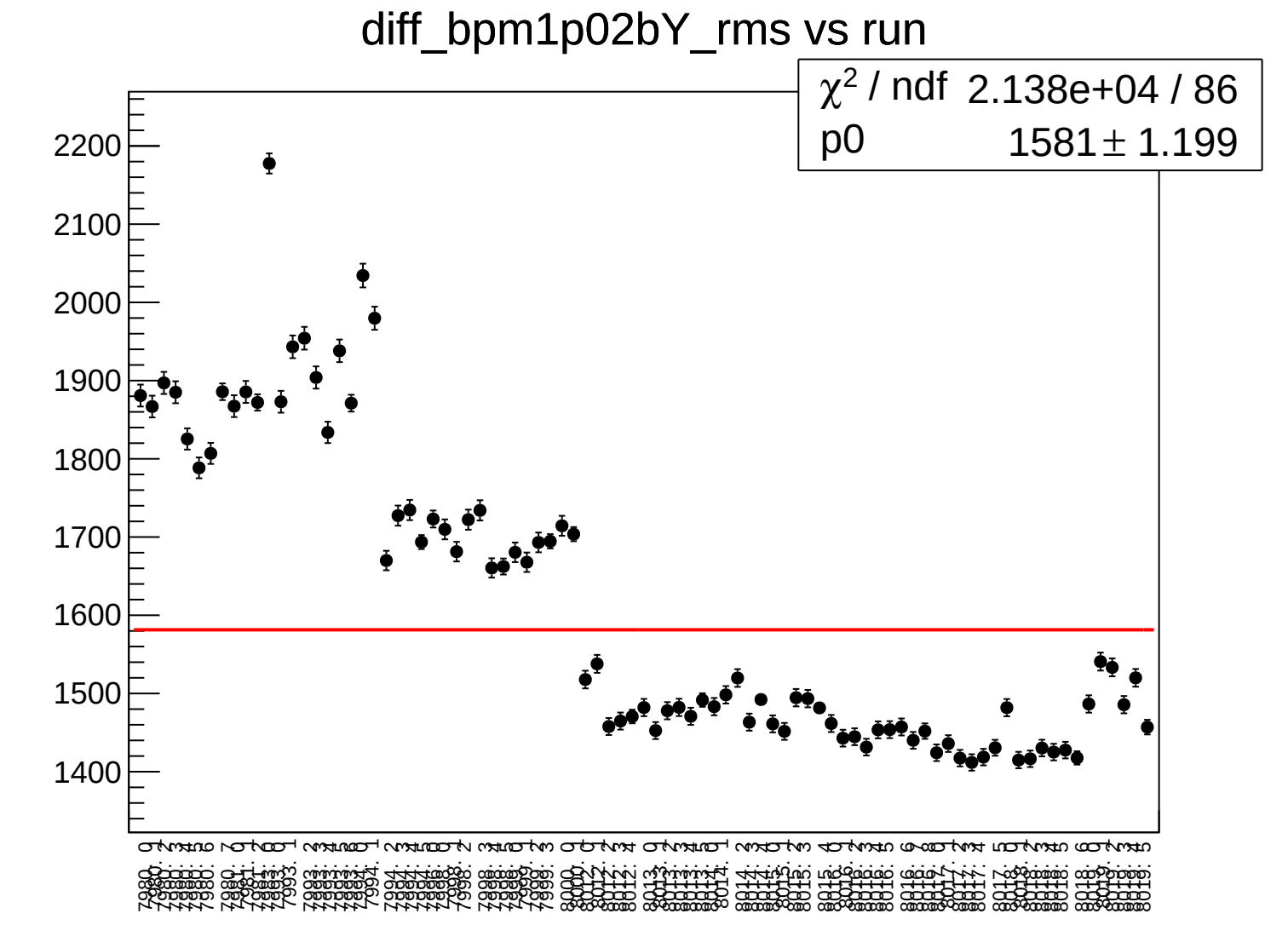

diff_bpm1p02bX_mean vs run
χ² / ndf 101.3 / 86
p0 −1.655 ± 2.752
100
50
0
−50
−100
pull
Entries 87
Mean 268.8
Std Dev 0
2
1
0
−1
−2
−3

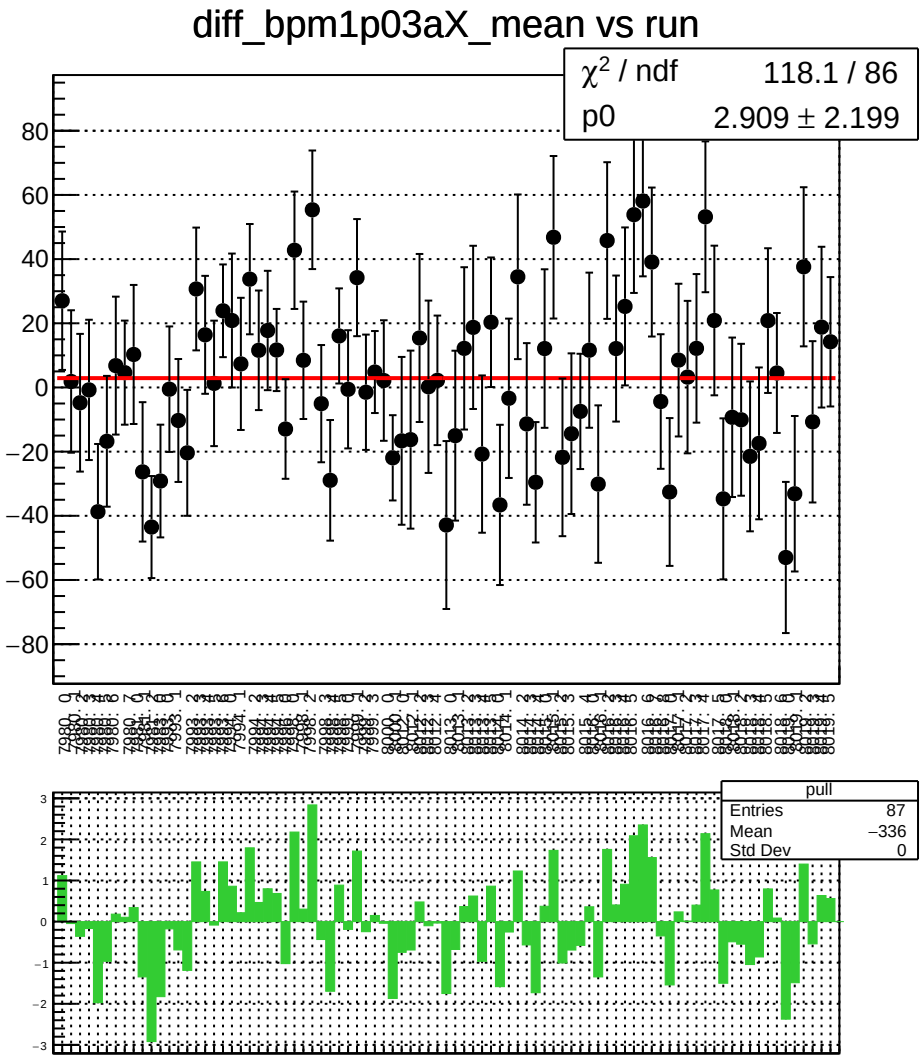

pull1D
Entries 87
Mean −0.00436
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

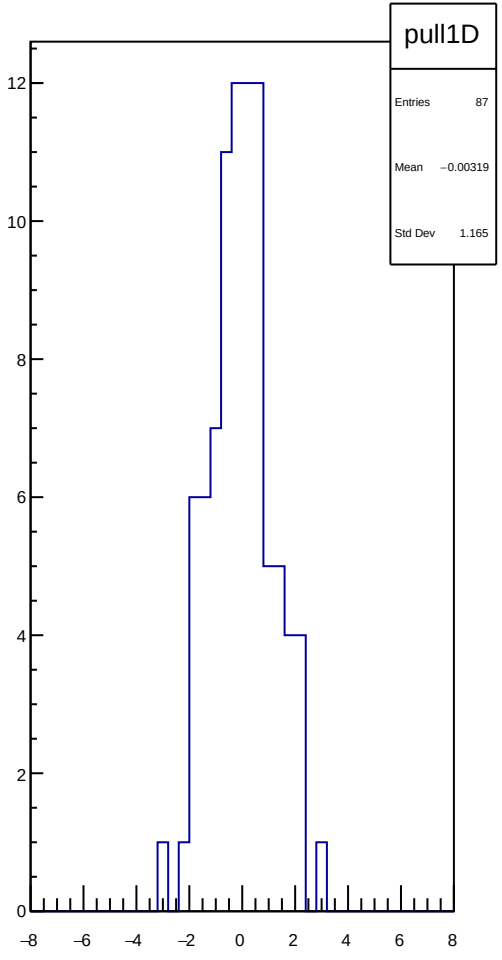

diff_bpm1p02bX_rms vs run
χ² / ndf 1.52e+04 / 86
p0 2571 ± 1.946
3200
3000
2800
2600
2400
2200

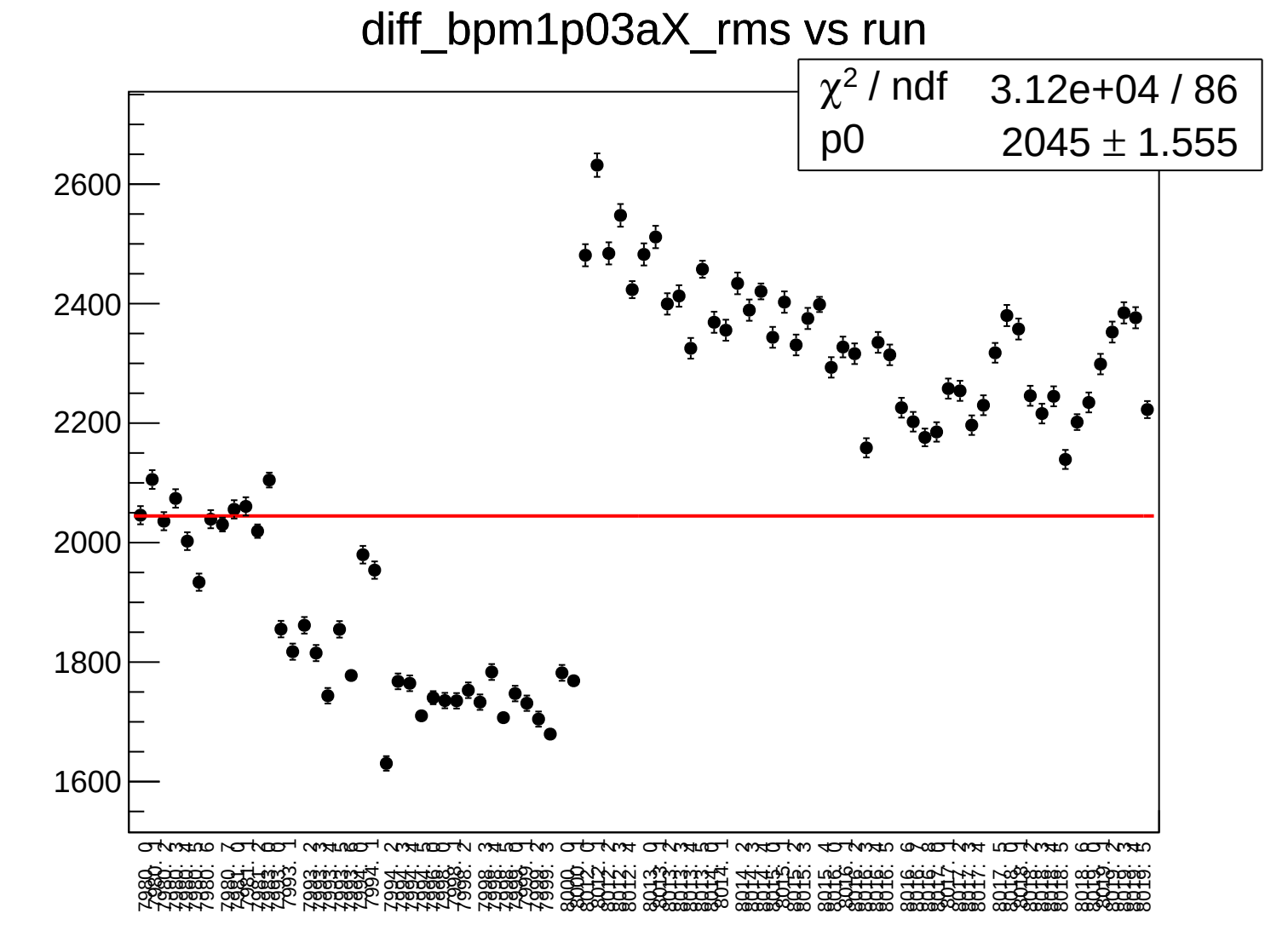

diff_bpm1p02bY_mean vs run
χ² / ndf 99.14 / 86
p0 2.275 ± 1.696
pull
Entries 87
Mean 60.02
Std Dev 34.69

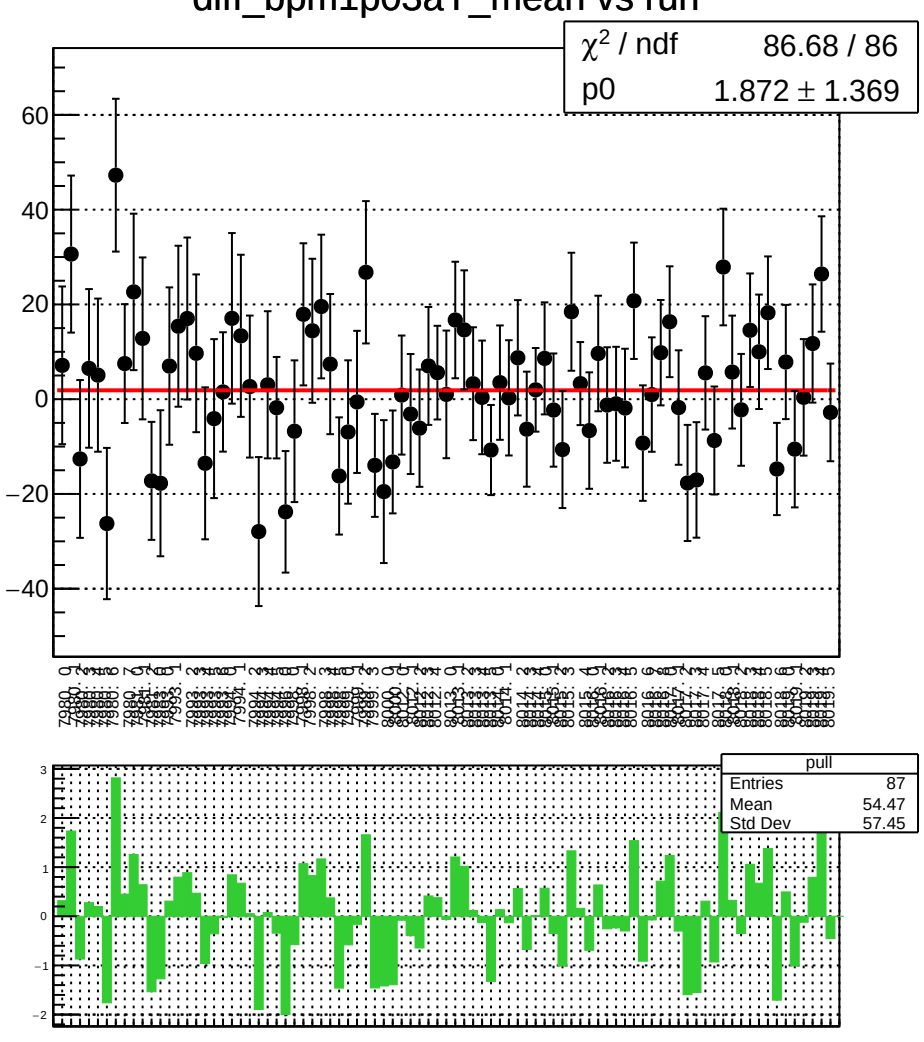

pull1D
Entries 87
Mean 0.02728
Std Dev 1.067

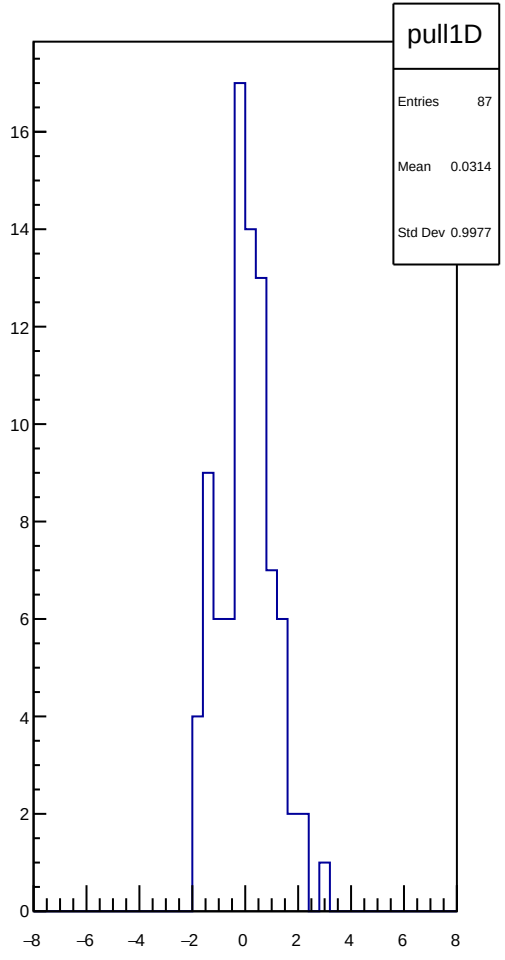

diff_bpm1p02bY_rms vs run
χ² / ndf 2.138e+04 / 86
p0 1581 ± 1.199
2200
2100
2000
1900
1800
1700
1600
1500
1400

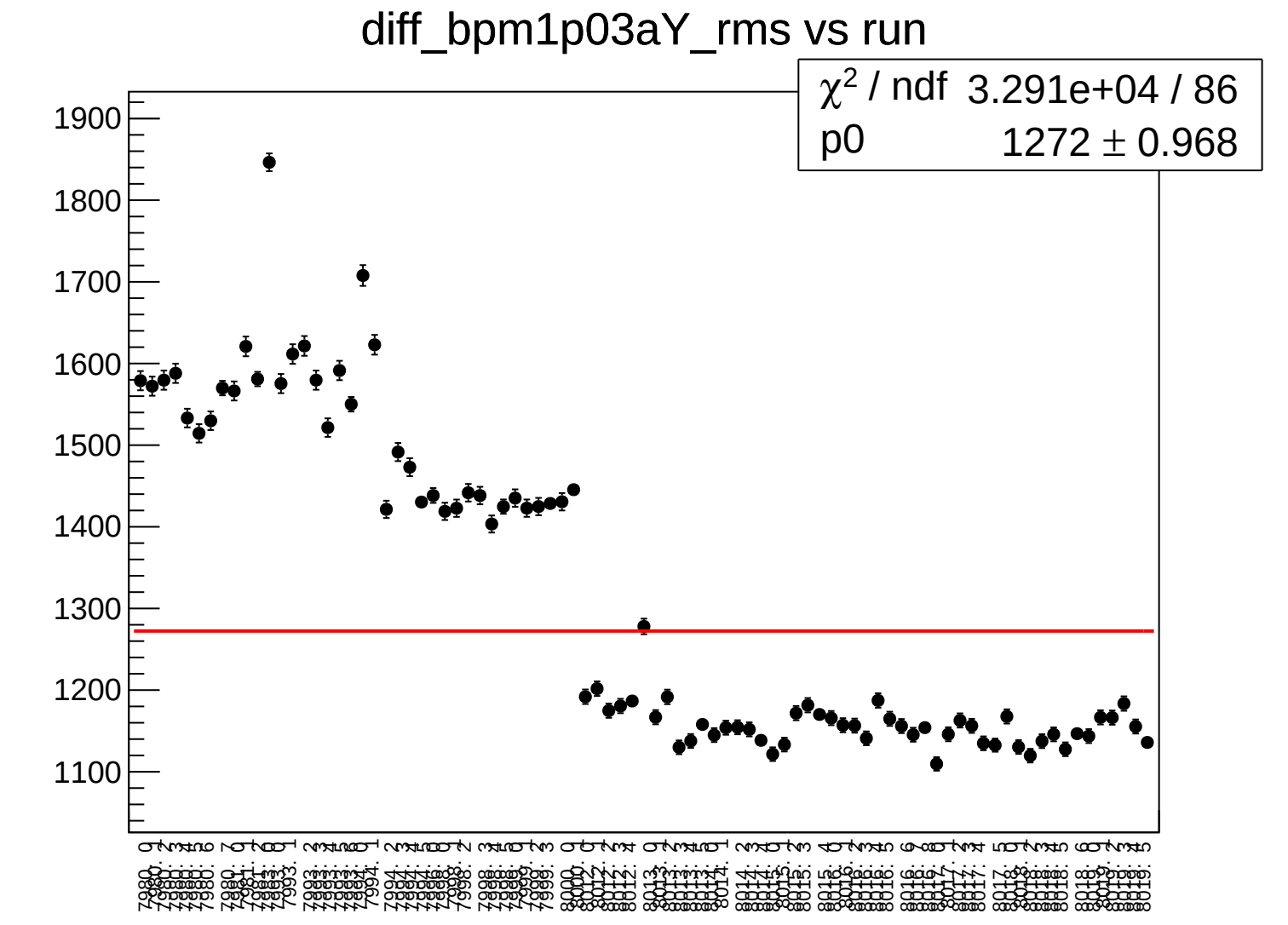

diff_bpm1p03aX_mean vs run
χ² / ndf 118.1 / 86
p0 2.909 ± 2.199
pull
Entries 87
Mean −336
Std Dev 0

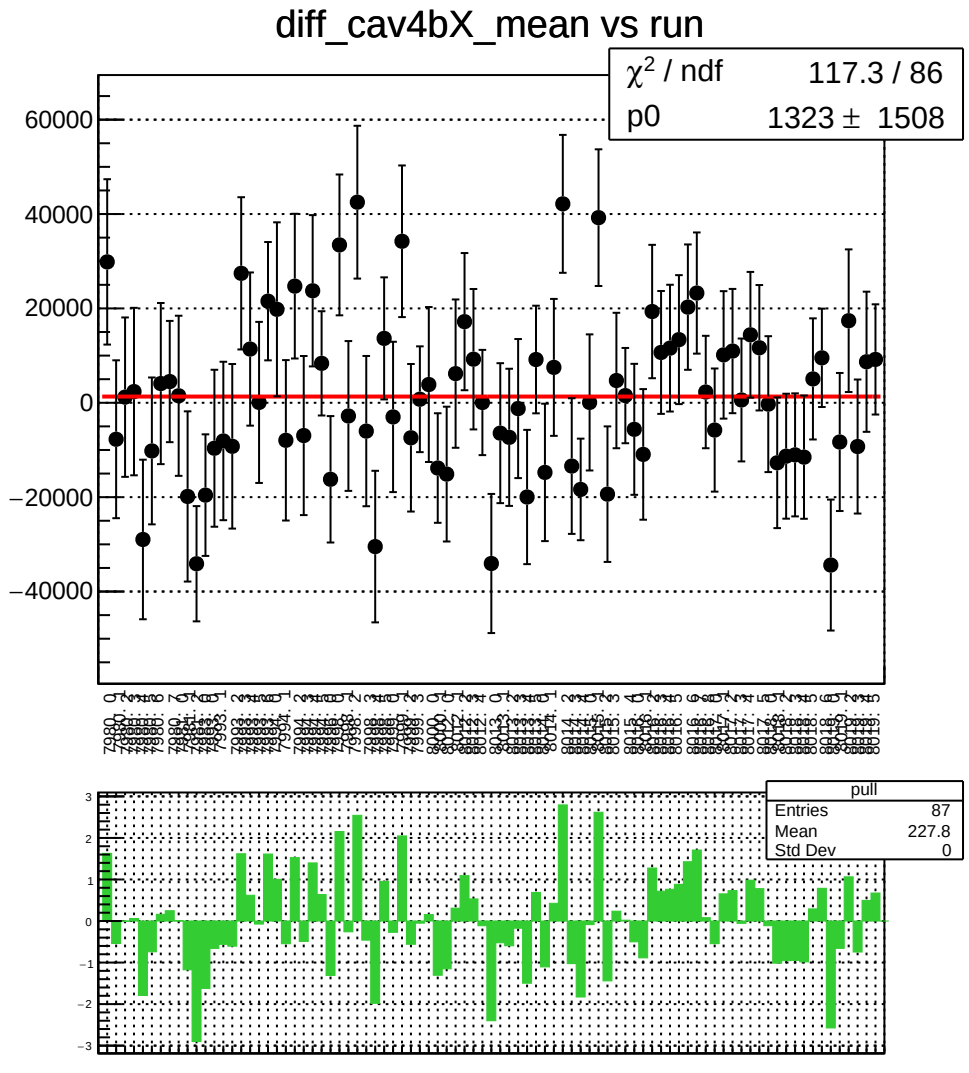

pull1D
Entries 87
Mean −0.00319
Std Dev 1.165

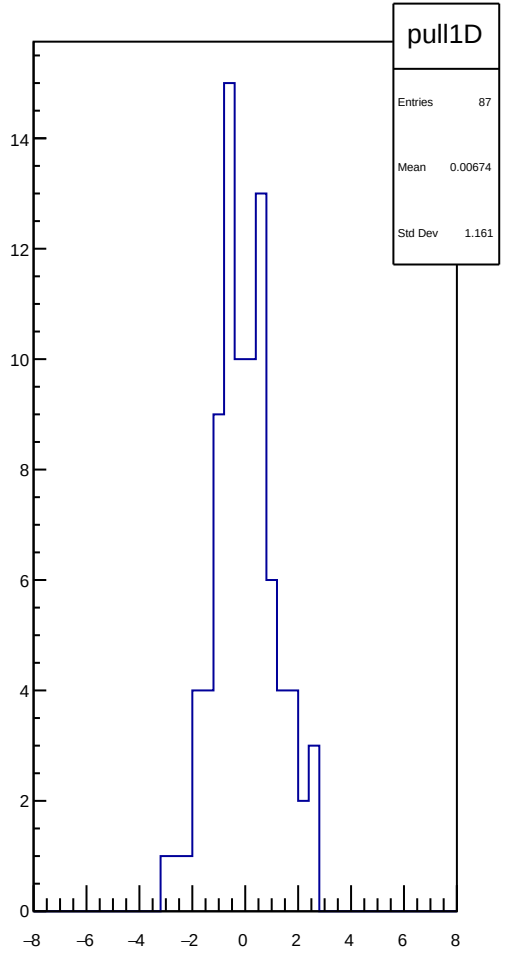

diff_bpm1p03aX_rms vs run
χ² / ndf 3.12e+04 / 86
p0 2045 ± 1.555
2600
2400
2200
2000
1800
1600

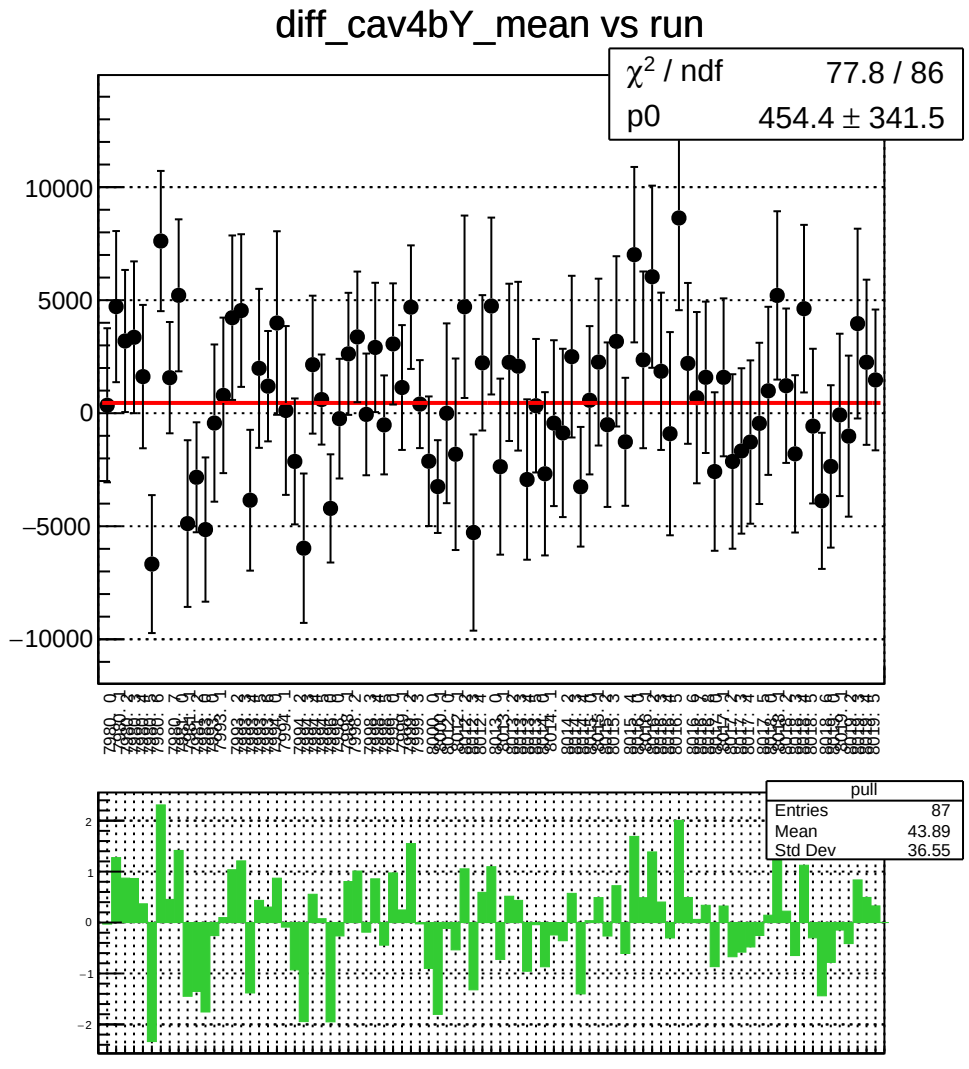

diff_bpm1p03aY_mean vs run
χ² / ndf 86.68 / 86
p0 1.872 ± 1.369
pull
Entries 87
Mean 54.47
Std Dev 57.45

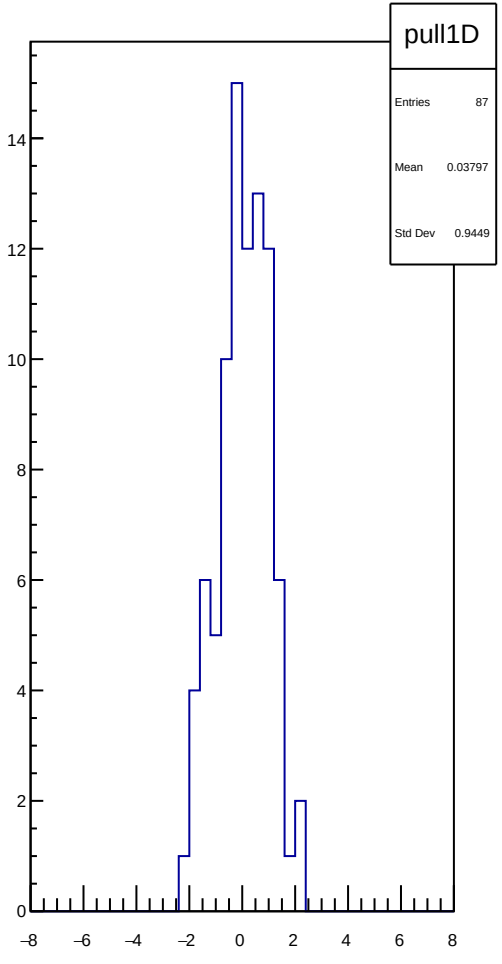

pull1D
Entries 87
Mean 0.0314
Std Dev 0.9977

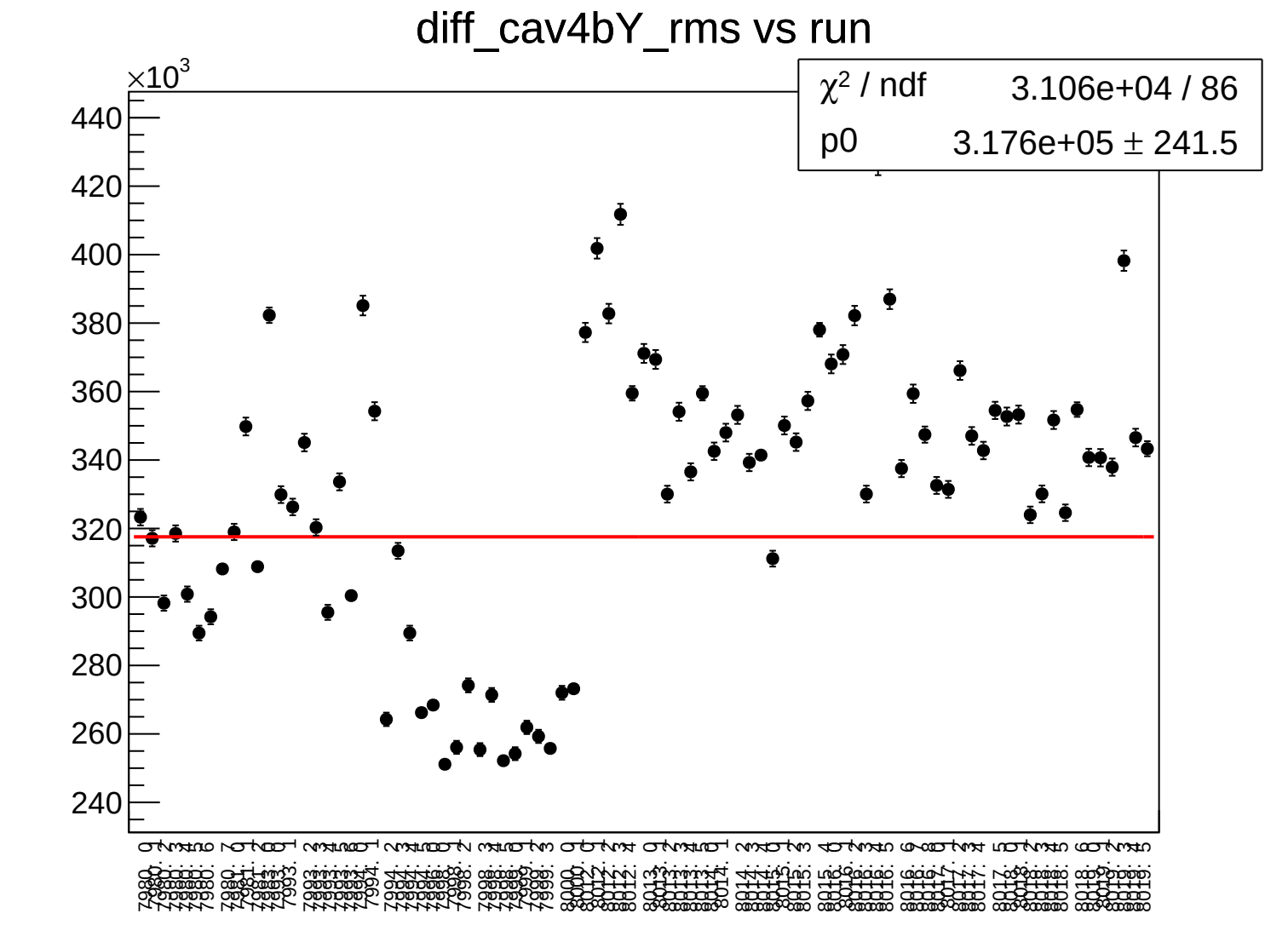

diff_bpm1p03aY_rms vs run
χ² / ndf 3.291e+04 / 86
p0 1272 ± 0.968
1900
1800
1700
1600
1500
1400
1300
1200
1100

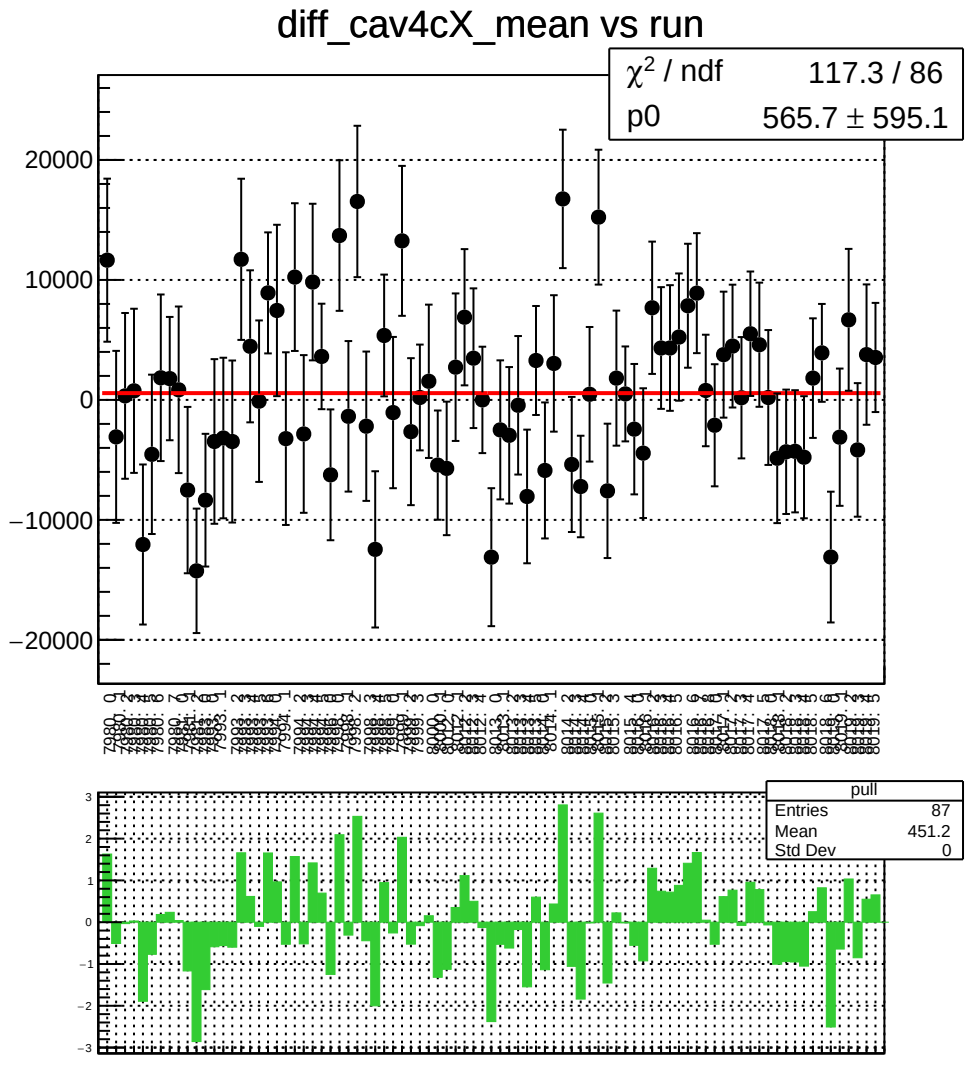

diff_cav4bX_mean vs run
χ^2 / ndf 117.3 / 86
p0 1323 ± 1508
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 227.8
Std Dev 0
3
2
1
0
−1
−2
−3

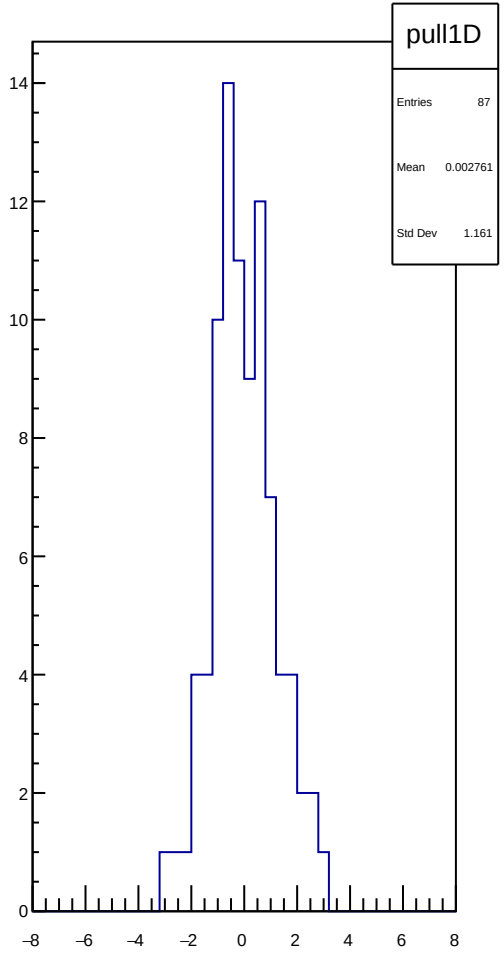

pull1D
Entries 87
Mean 0.00674
Std Dev 1.161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

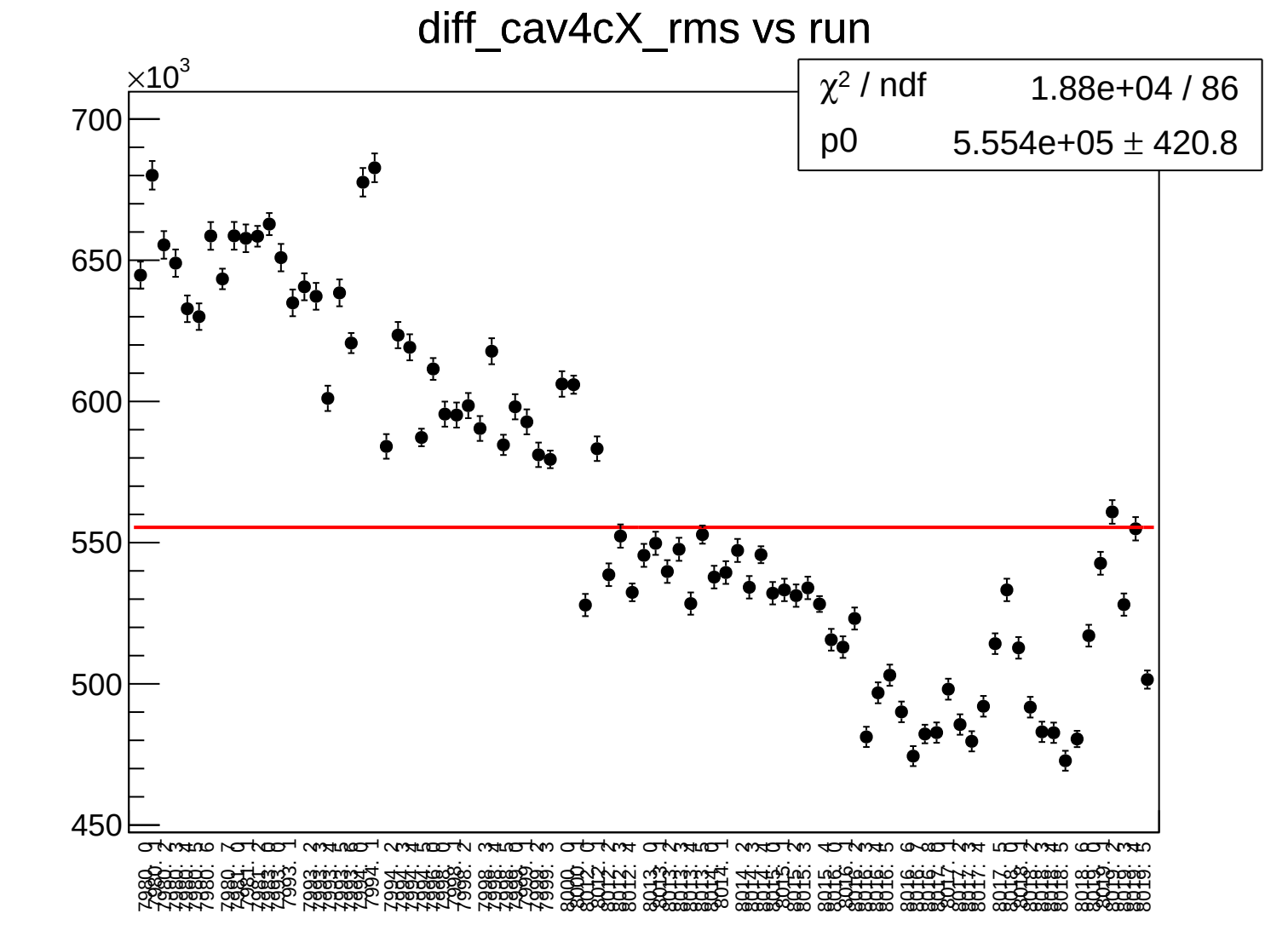

diff_cav4bY_mean vs run
χ^2 / ndf 77.8 / 86
p0 454.4 ± 341.5
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 43.89
Std Dev 36.55
2
1
0
−1
−2

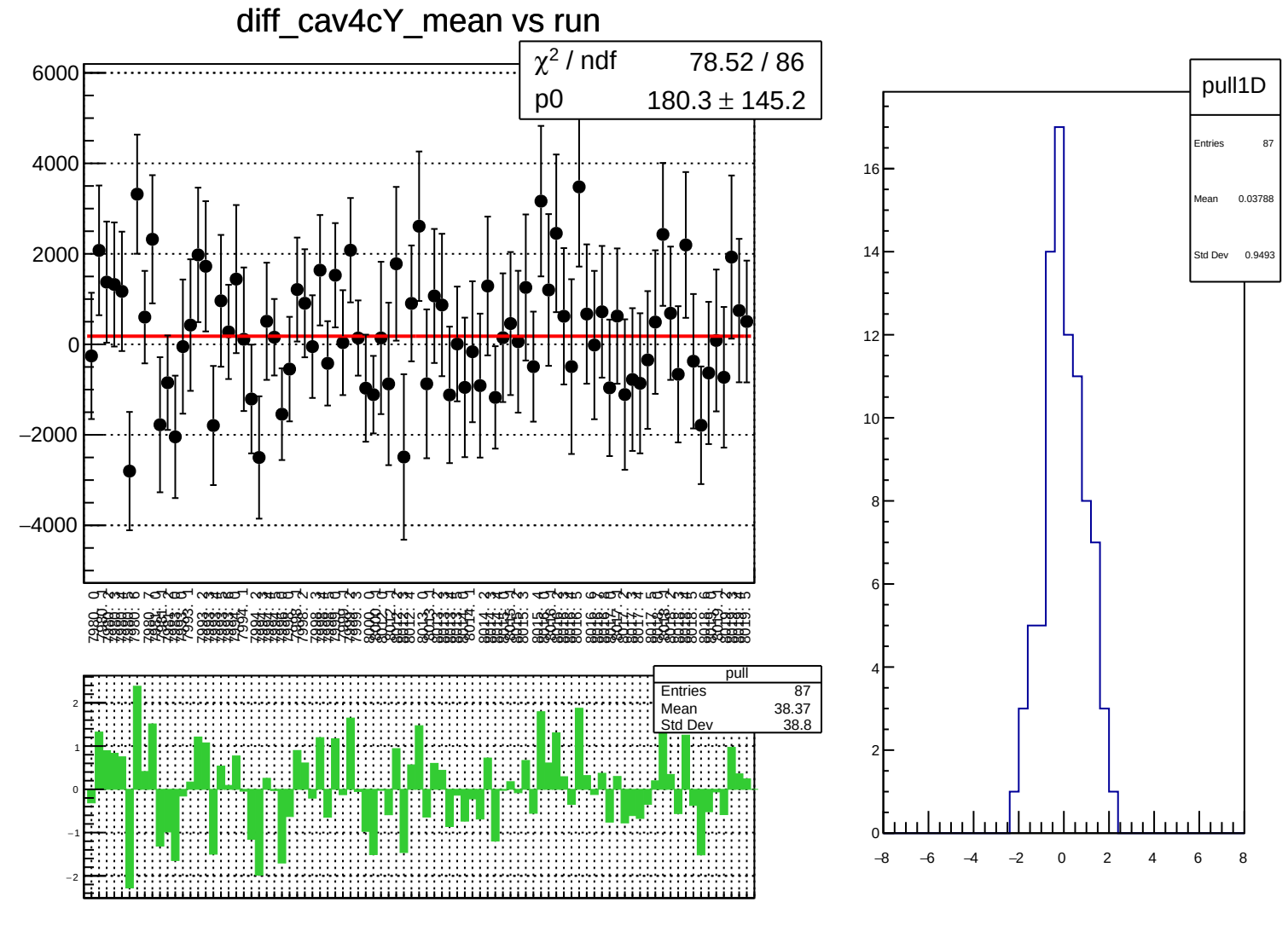

pull1D
Entries 87
Mean 0.03797
Std Dev 0.9449
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

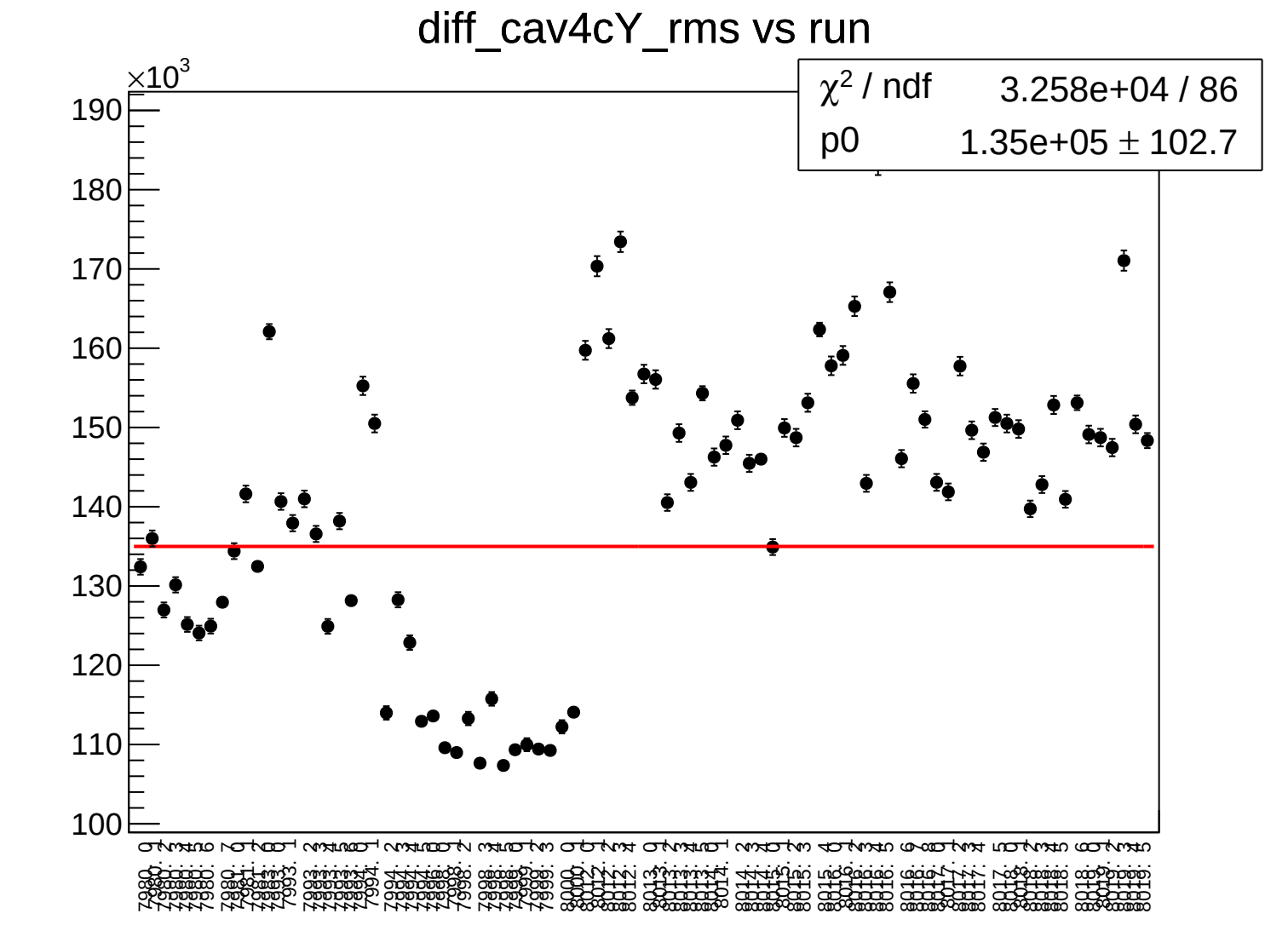

diff_cav4bY_rms vs run
×10^3
440
420
400
380
360
340
320
300
280
260
240
χ² / ndf 3.106e+04 / 86
p0 3.176e+05 ± 241.5

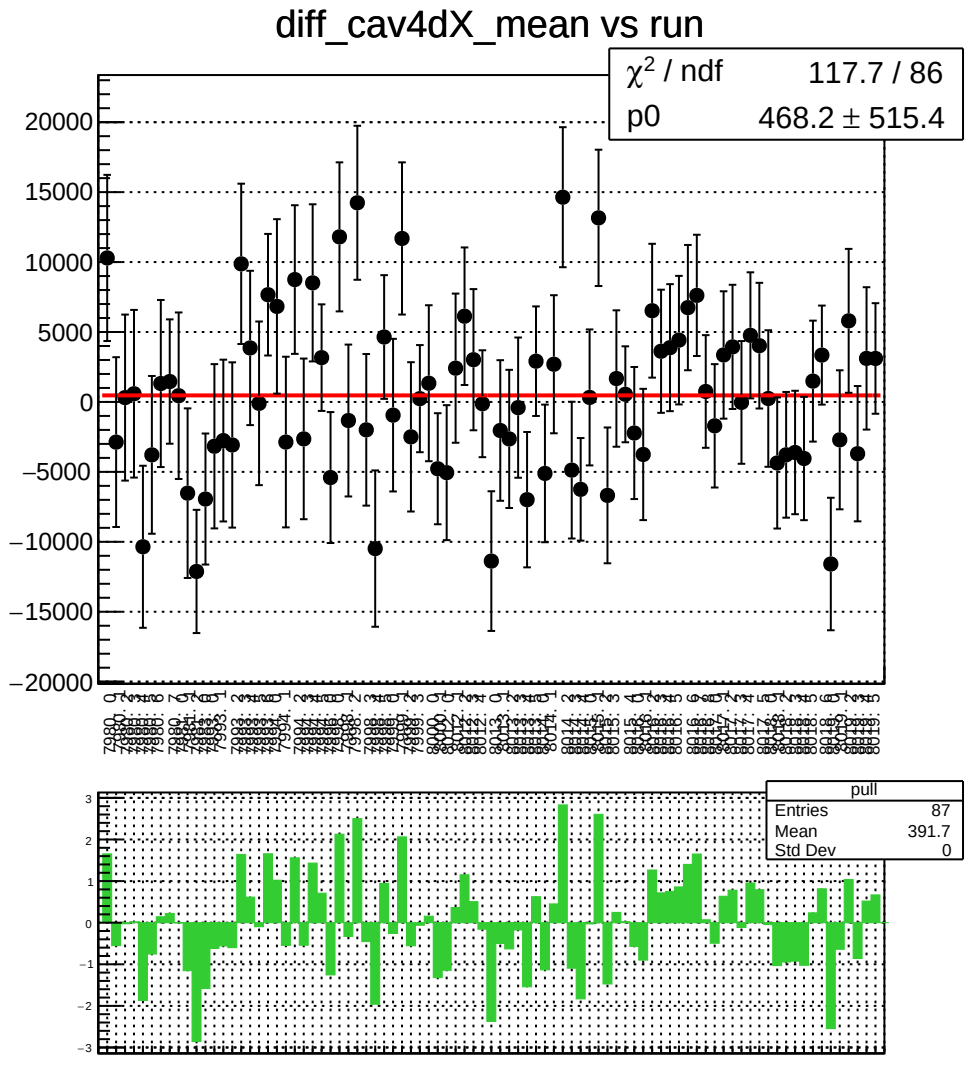

diff_cav4cX_mean vs run
χ² / ndf 117.3 / 86
p0 565.7 ± 595.1
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 451.2
Std Dev 0
3
2
1
0
−1
−2
−3

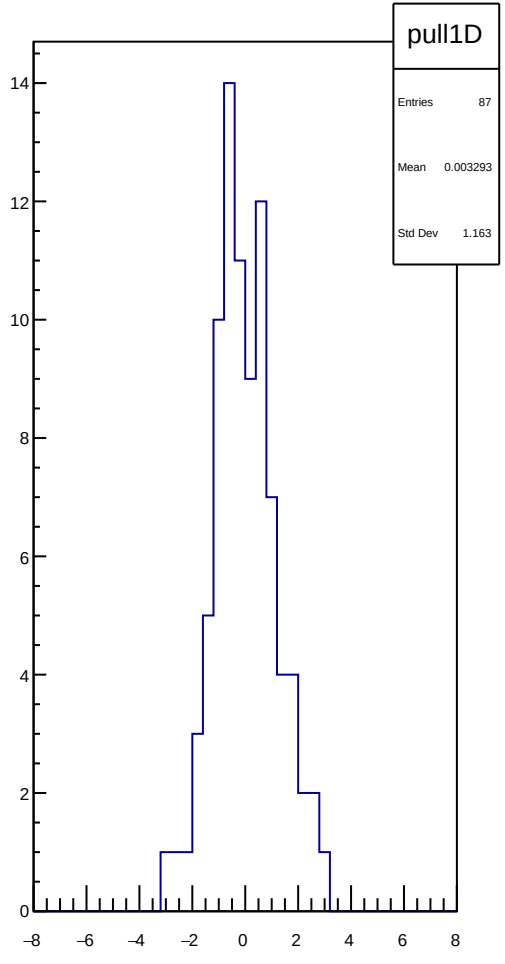

pull1D
Entries 87
Mean 0.002761
Std Dev 1.161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

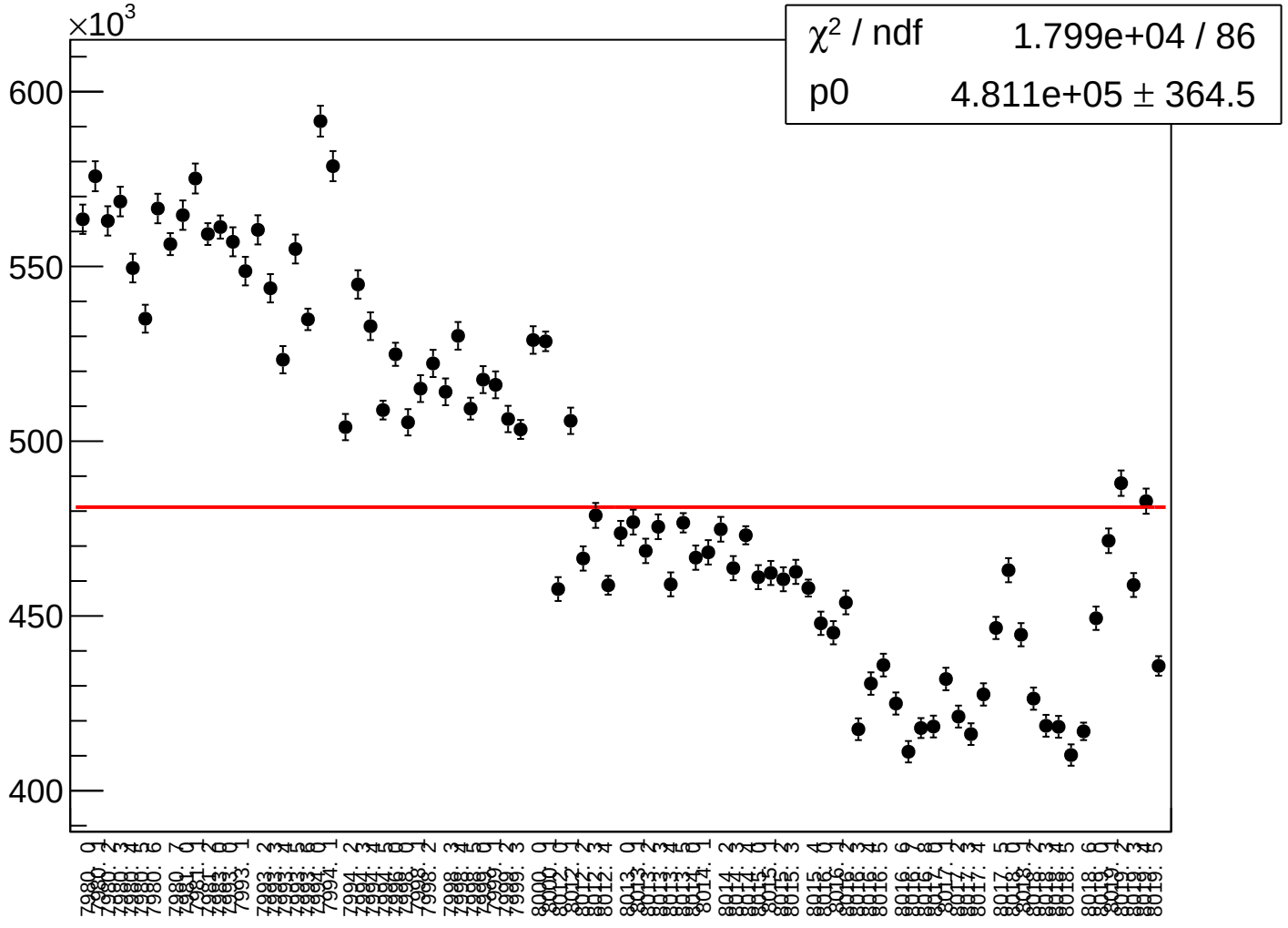

diff_cav4cX_rms vs run
×10^3
700
650
600
550
500
450
χ² / ndf 1.88e+04 / 86
p0 5.554e+05 ± 420.8

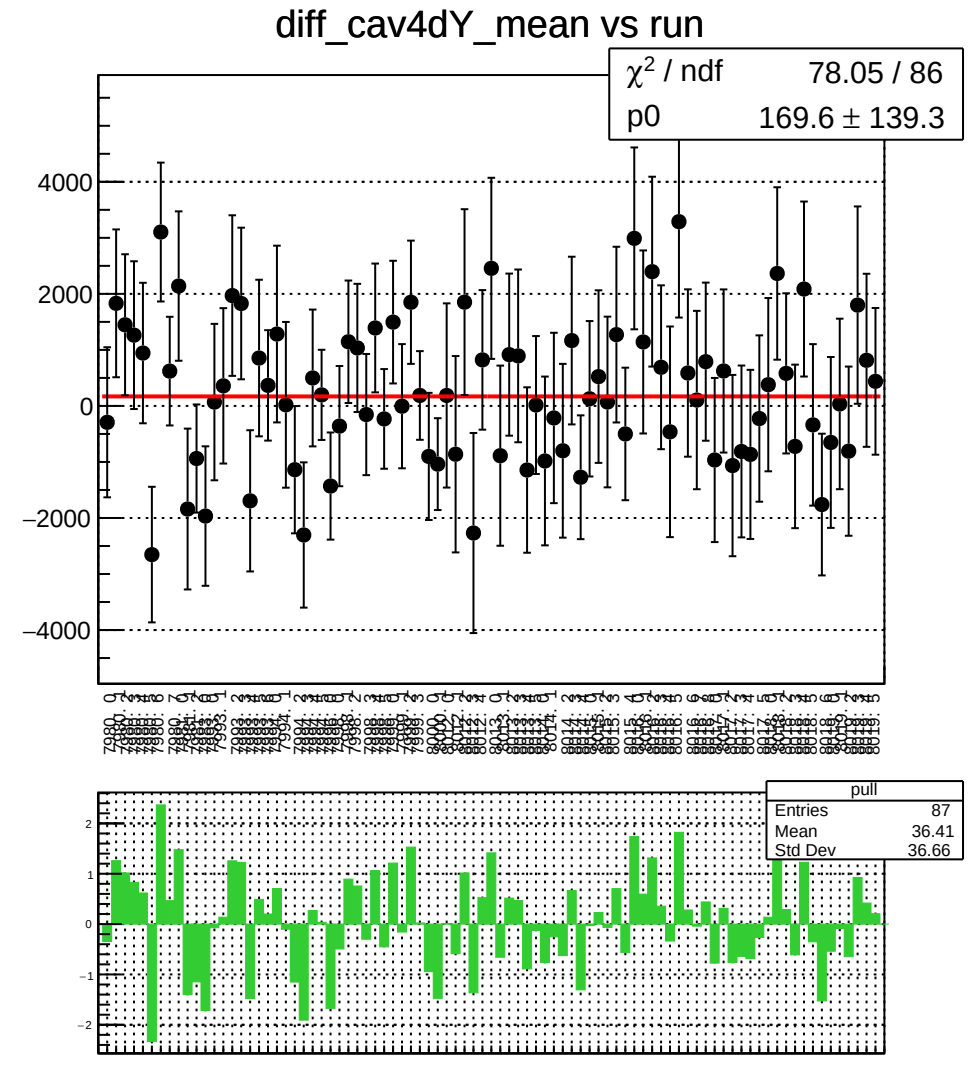

diff_cav4cY_mean vs run
χ² / ndf 78.52 / 86
p0 180.3 ± 145.2
pull
Entries 87
Mean 38.37
Std Dev 38.8
pull1D
Entries 87
Mean 0.03788
Std Dev 0.9493

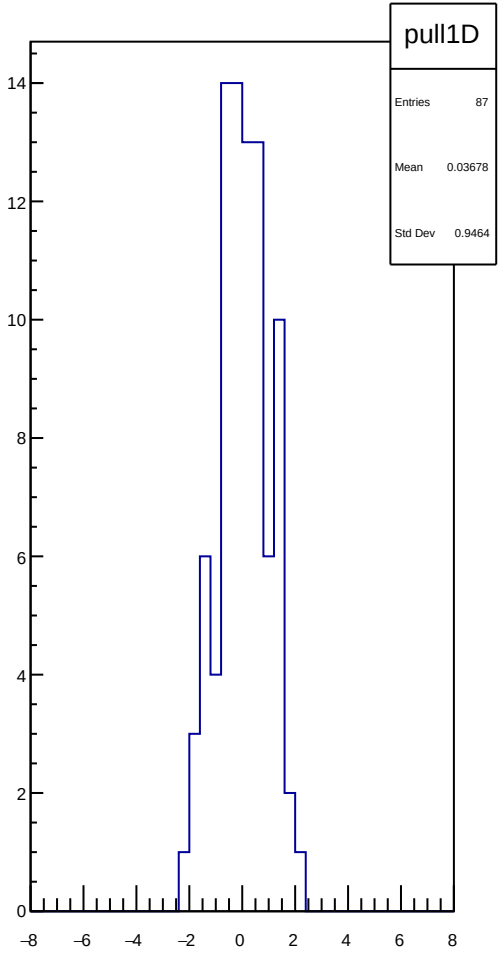

diff_cav4cY_rms vs run
×10^3
χ^2 / ndf 3.258e+04 / 86
p0 1.35e+05 ± 102.7
190
180
170
160
150
140
130
120
110
100

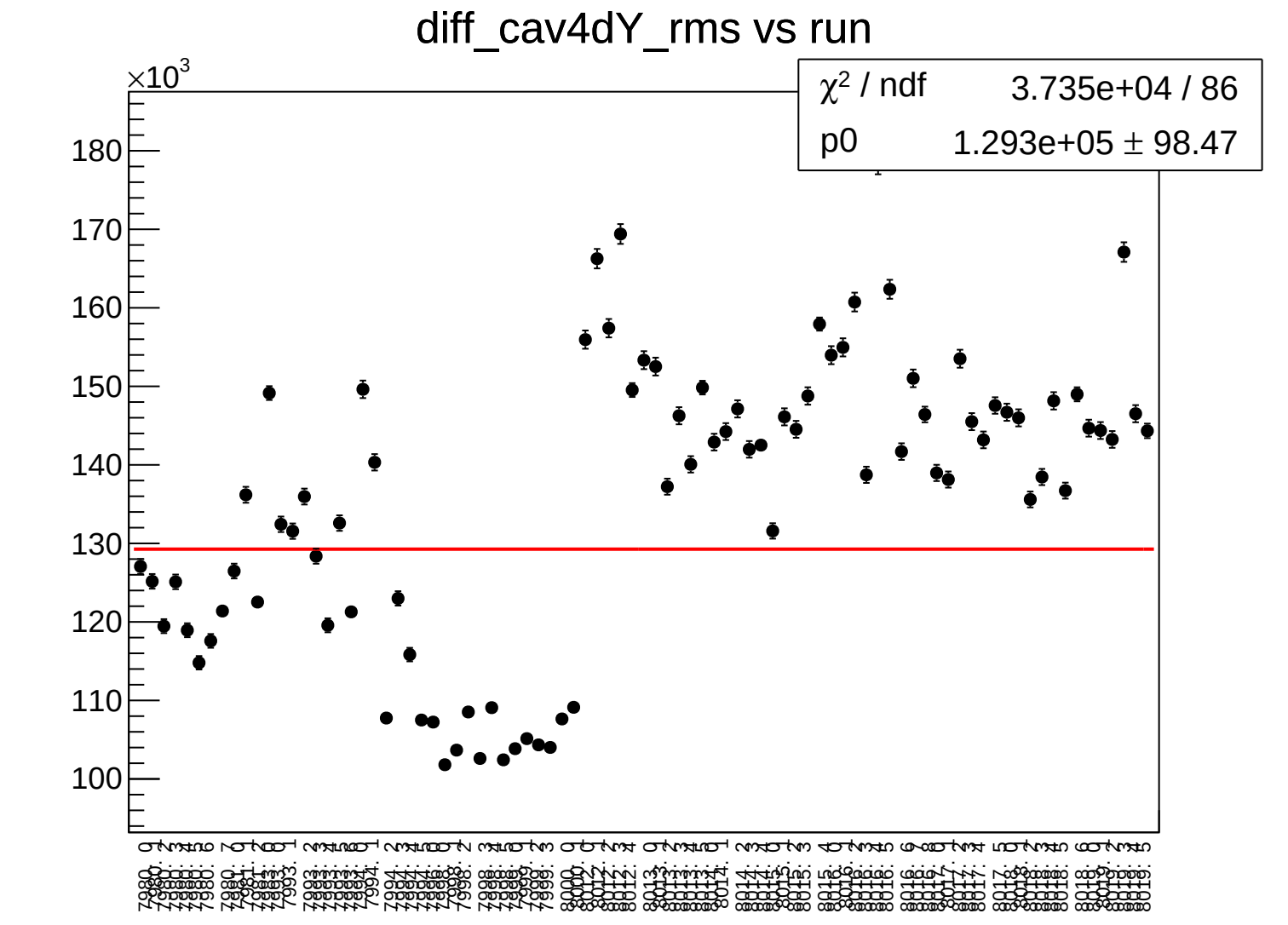

diff_cav4dX_mean vs run
χ^2 / ndf 117.7 / 86
p0 468.2 ± 515.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 87
Mean 391.7
Std Dev 0
3
2
1
0
−1
−2
−3

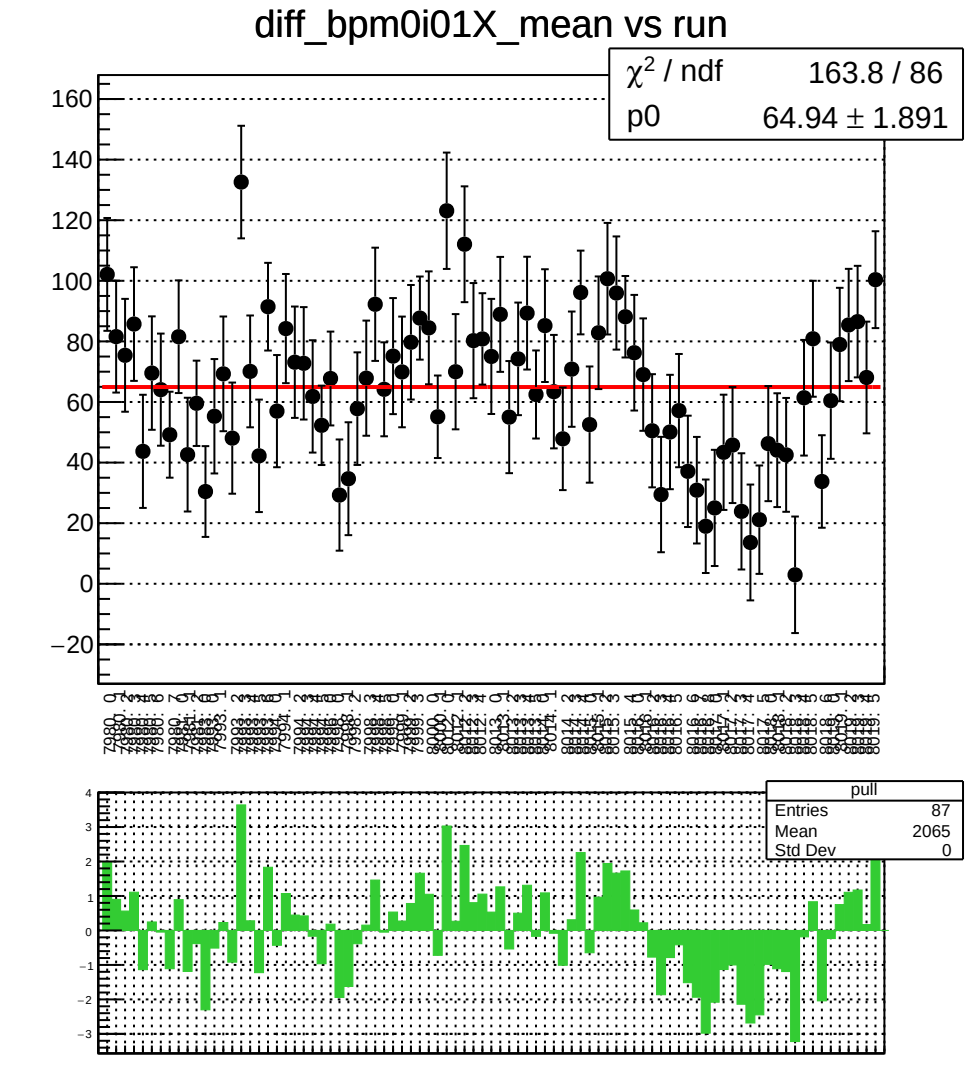

pull1D
Entries 87
Mean 0.003293
Std Dev 1.163
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

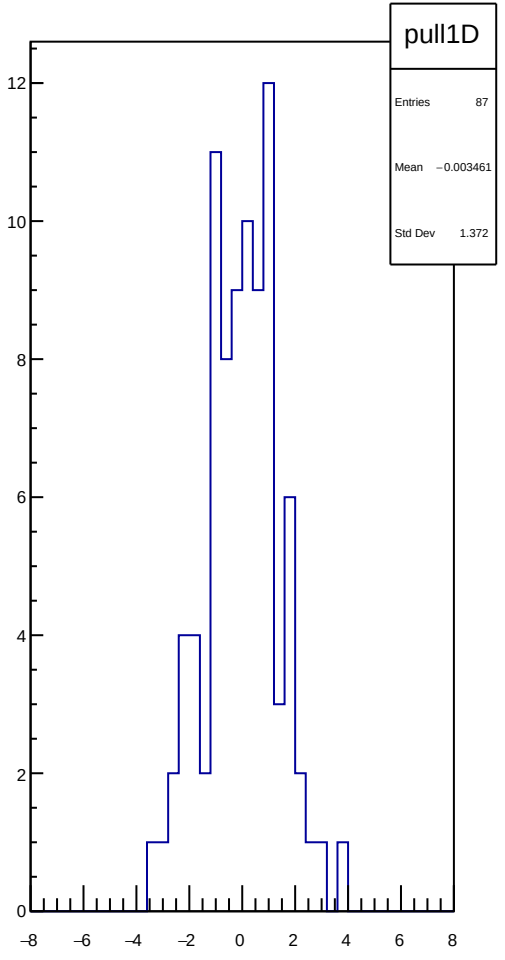

diff_cav4dX_rms vs run
×10^3
600
550
500
450
400
χ² / ndf 1.799e+04 / 86
p0 4.811e+05 ± 364.5

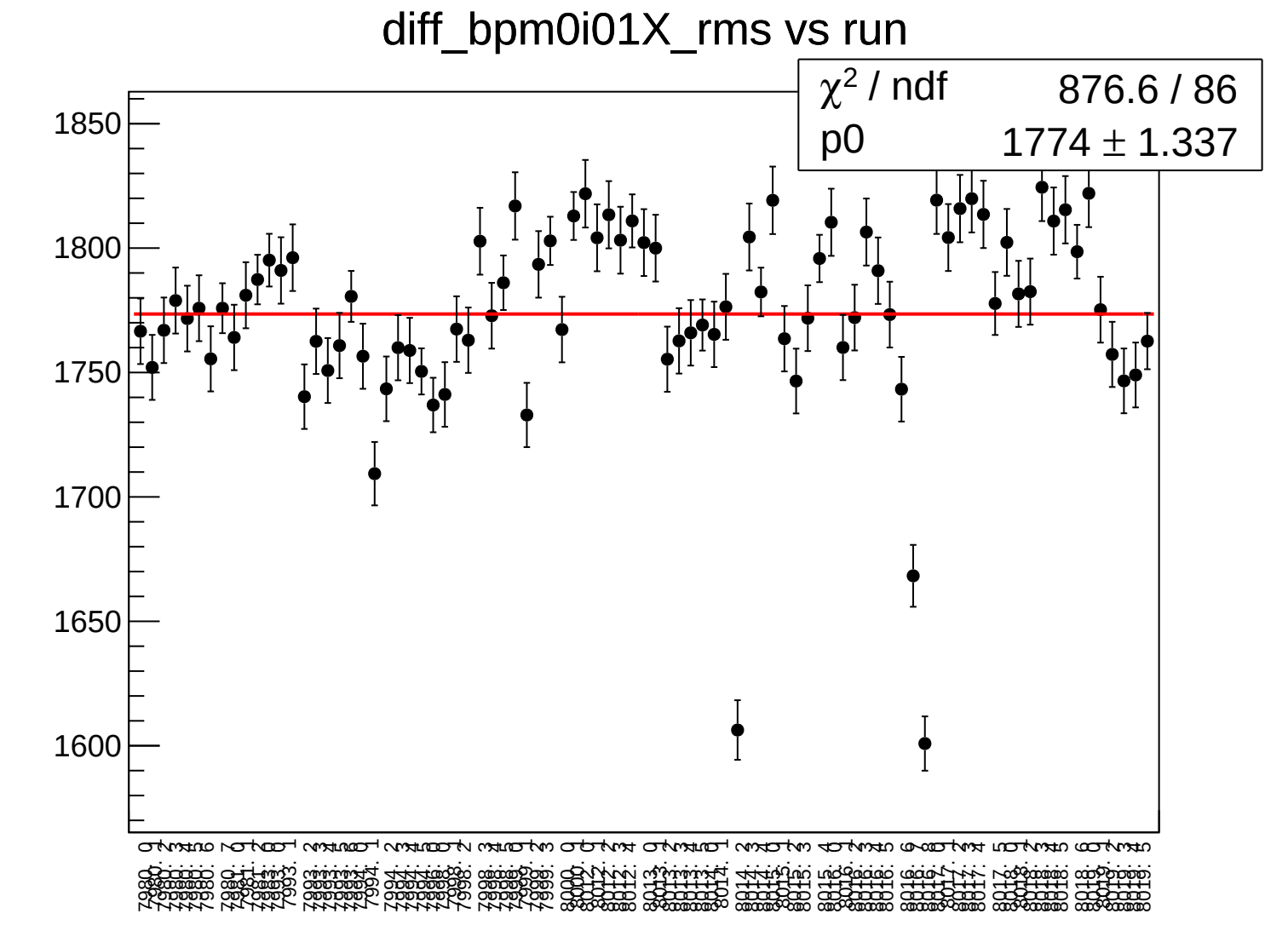

diff_cav4dY_mean vs run
χ² / ndf 78.05 / 86
p0 169.6 ± 139.3
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 36.41
Std Dev 36.66
2
1
0
−1
−2

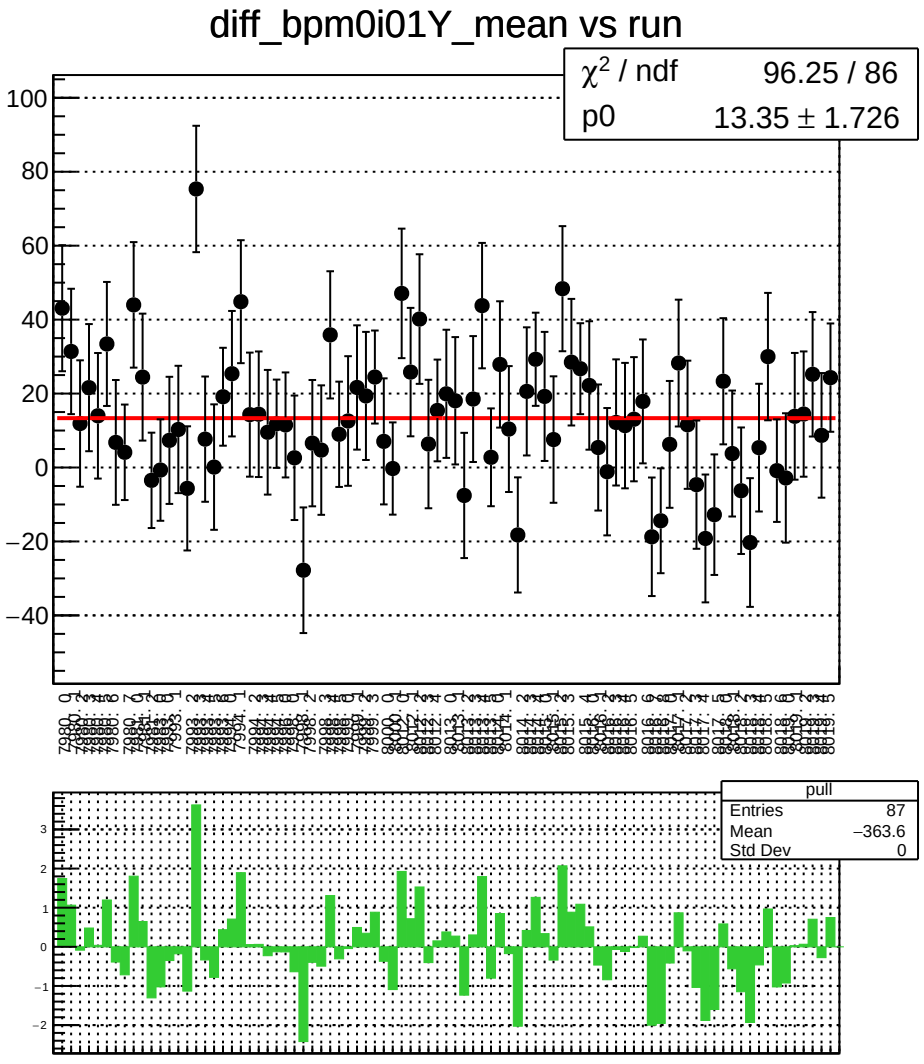

pull1D
Entries 87
Mean 0.03678
Std Dev 0.9464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

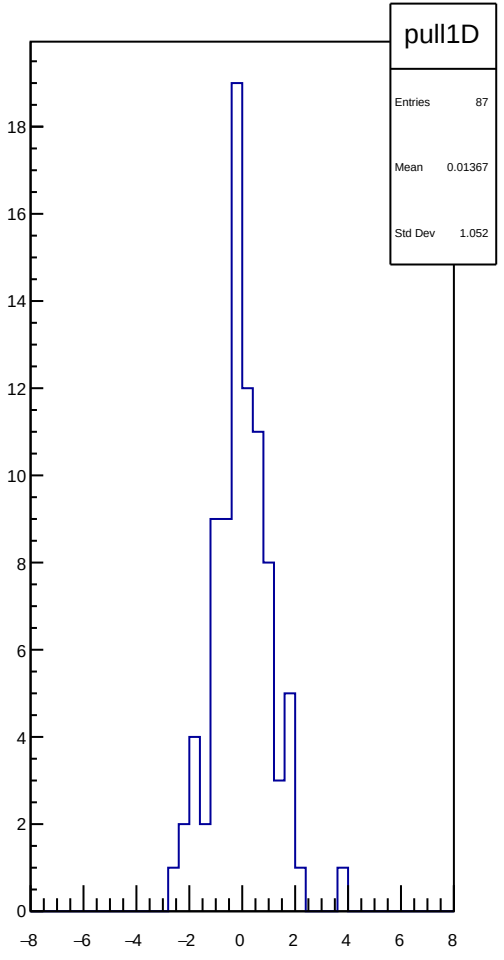

diff_cav4dY_rms vs run
×10^3
χ^2 / ndf 3.735e+04 / 86
p0 1.293e+05 ± 98.47
180
170
160
150
140
130
120
110
100

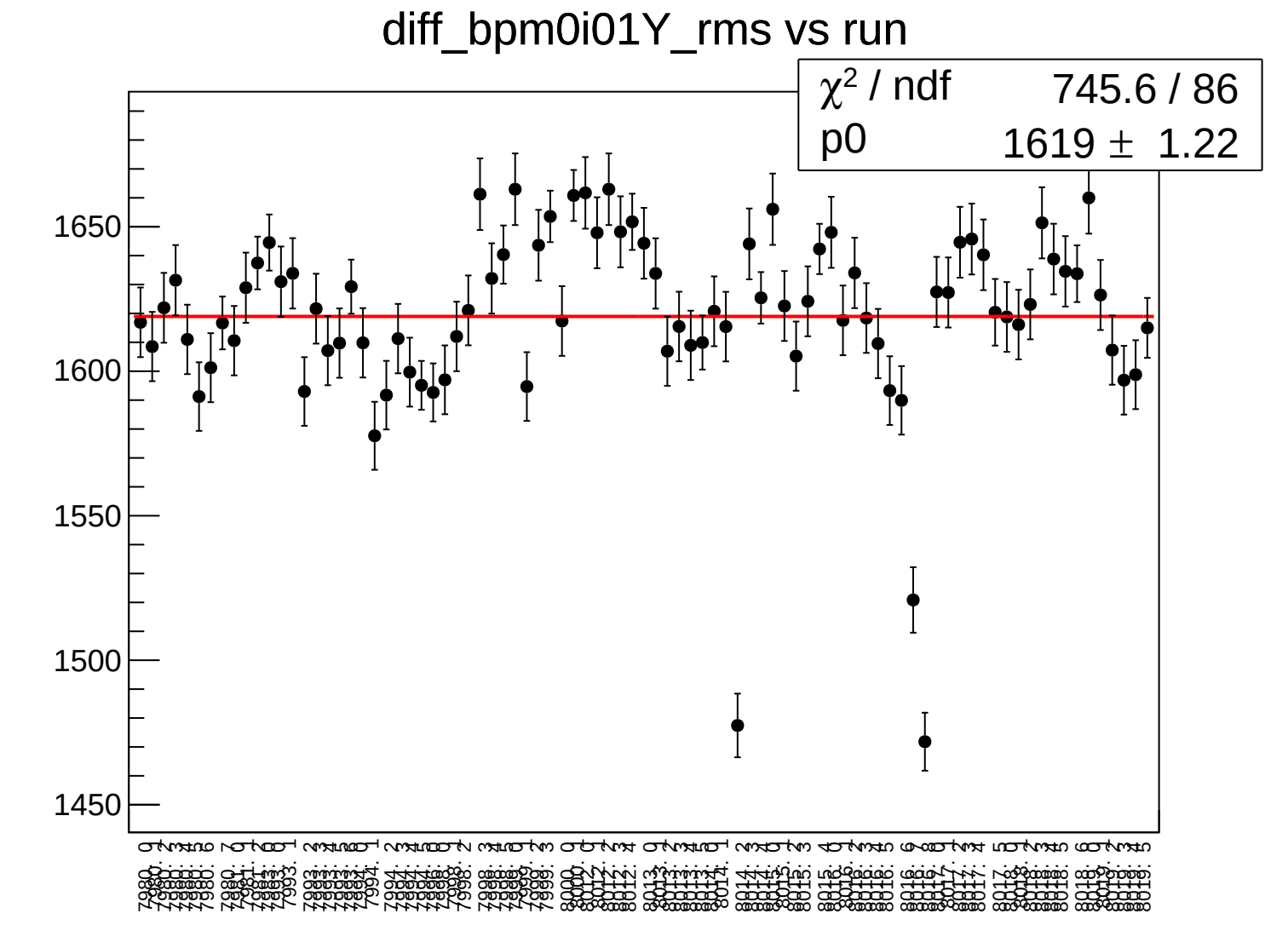

diff_bpm0i01X_mean vs run
χ² / ndf 163.8 / 86
p0 64.94 ± 1.891
pull
Entries 87
Mean 2065
Std Dev 0

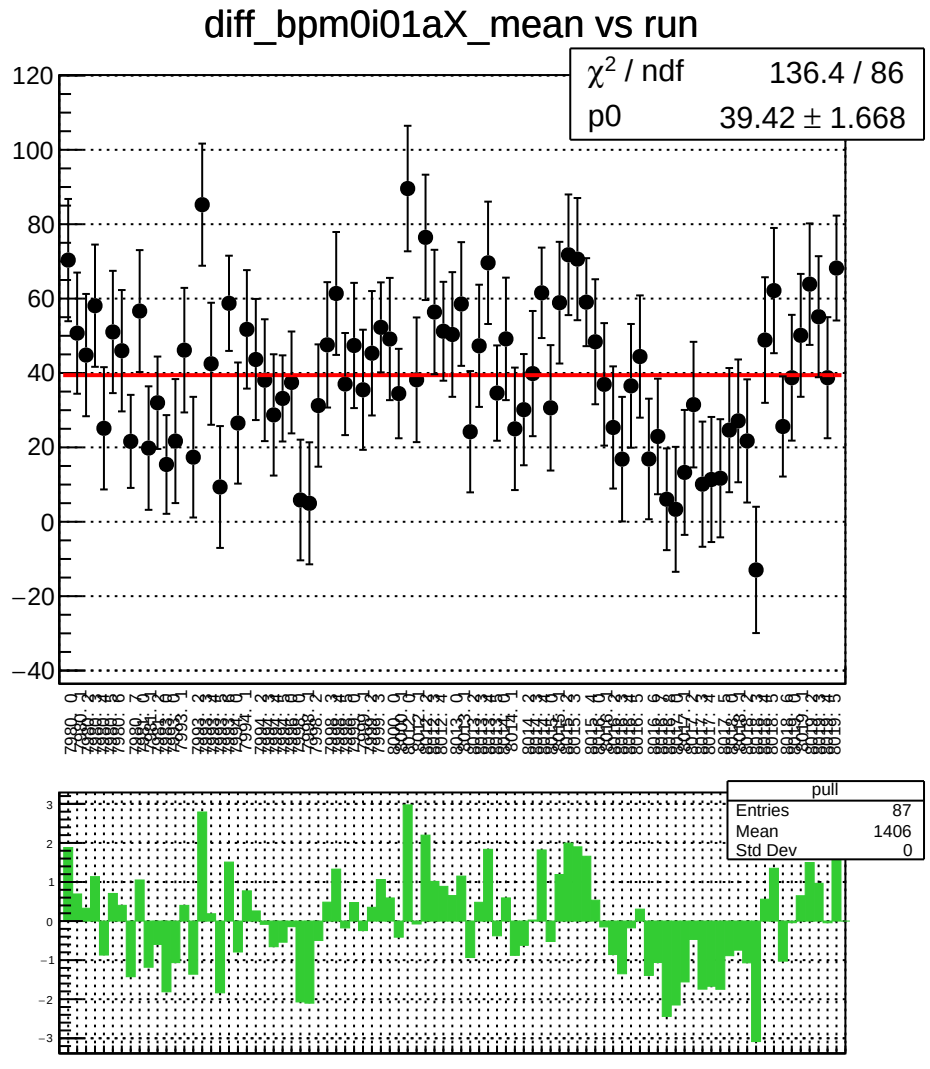

pull1D
Entries 87
Mean −0.003461
Std Dev 1.372

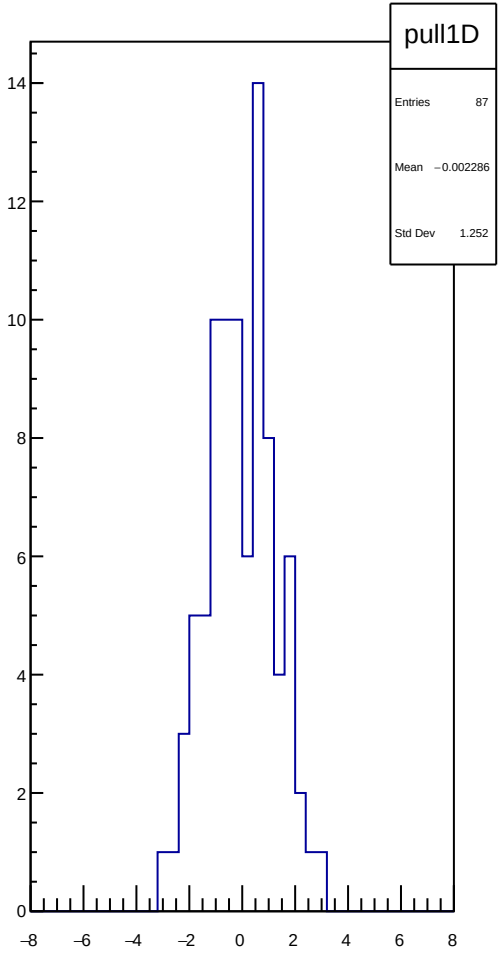

diff_bpm0i01X_rms vs run
χ² / ndf 876.6 / 86
p0 1774 ± 1.337
1850
1800
1750
1700
1650
1600

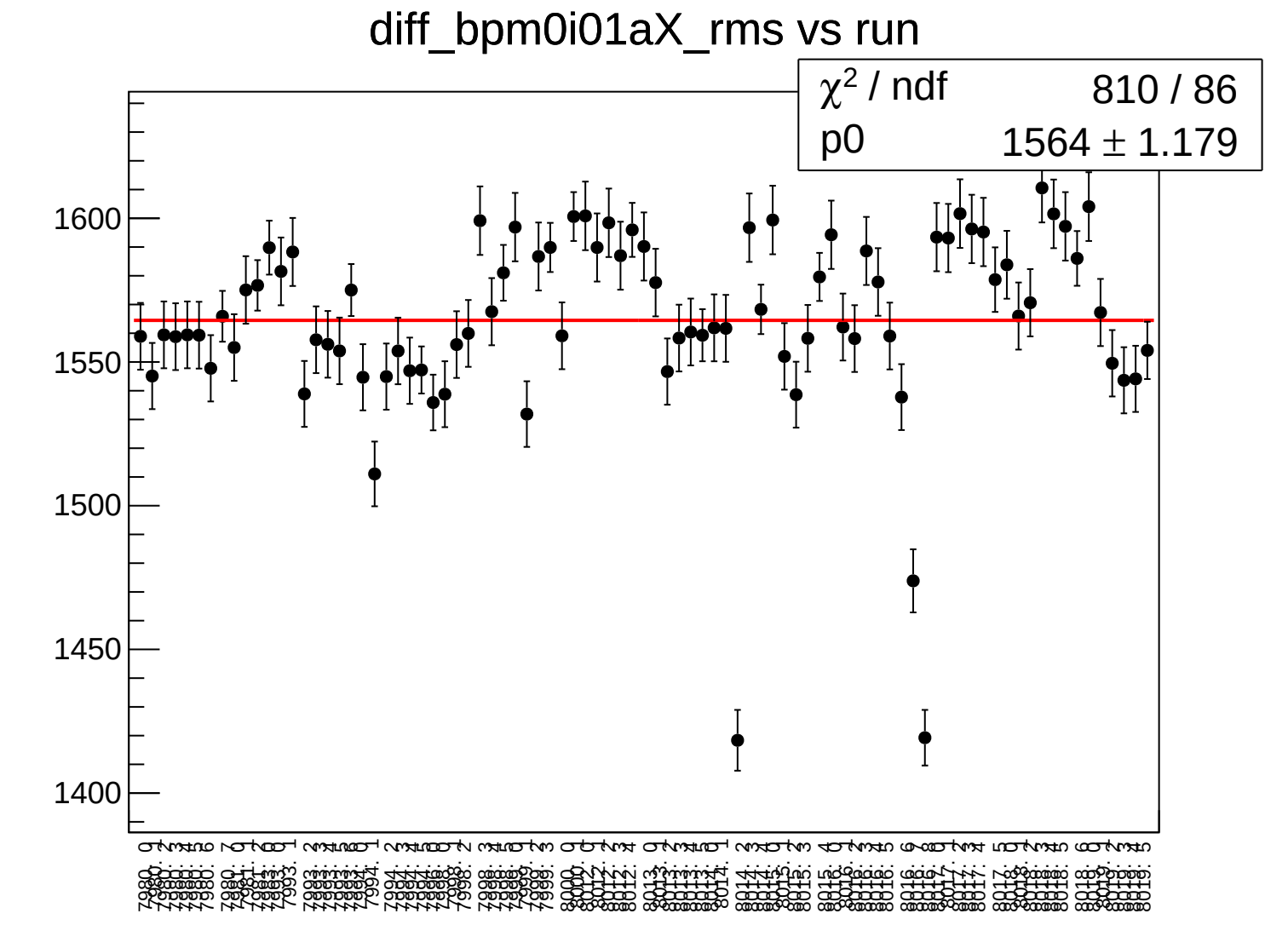

diff_bpm0i01Y_mean vs run
χ^2 / ndf 96.25 / 86
p0 13.35 ± 1.726
pull
Entries 87
Mean −363.6
Std Dev 0

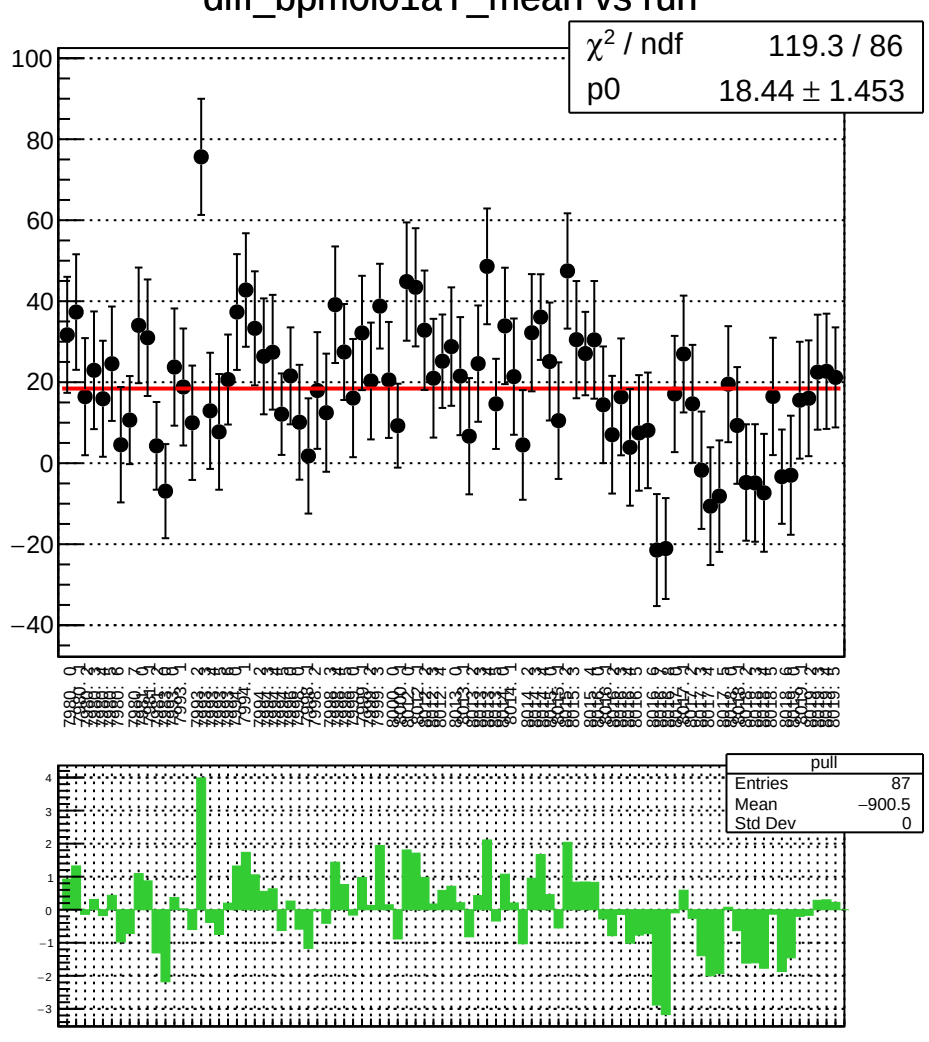

pull1D
Entries 87
Mean 0.01367
Std Dev 1.052

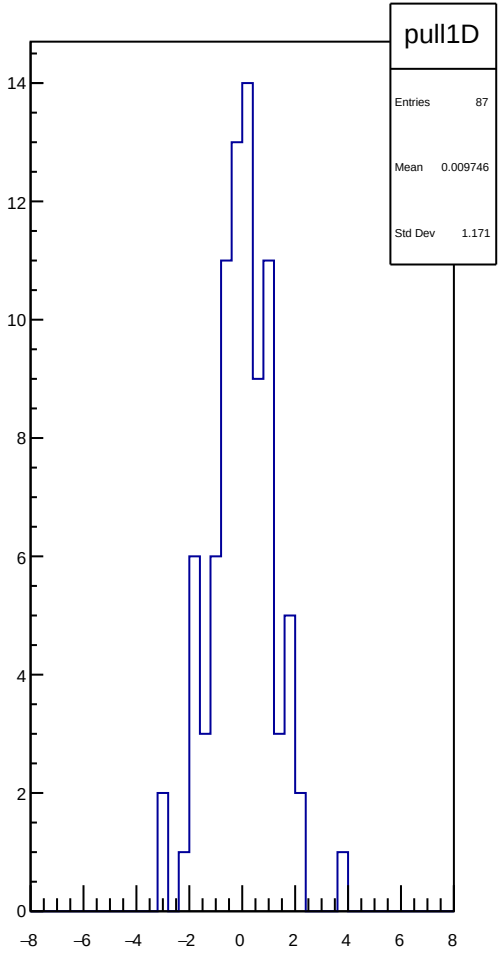

diff_bpm0i01Y_rms vs run
χ² / ndf 745.6 / 86
p0 1619 ± 1.22
1650
1600
1550
1500
1450

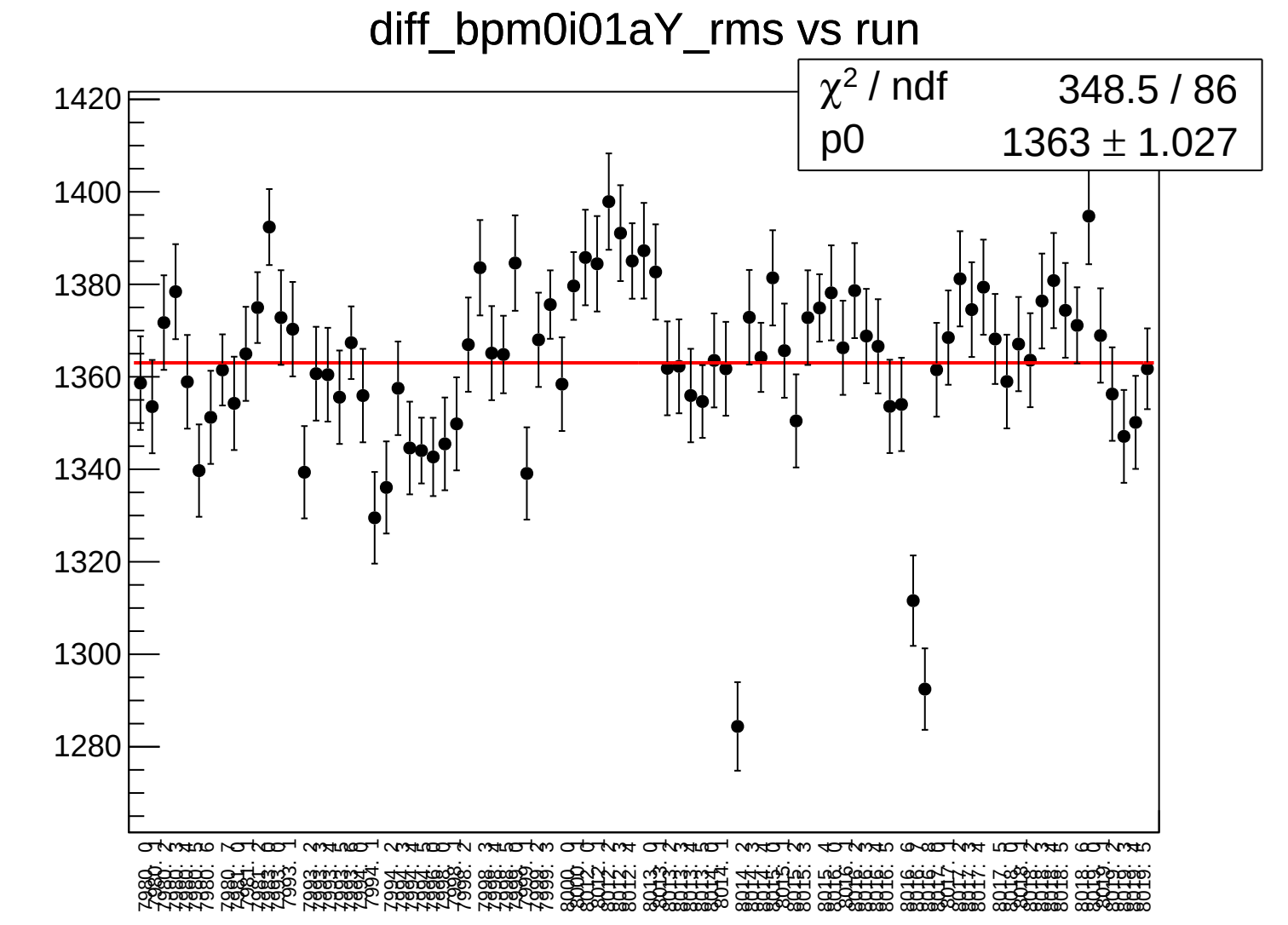

diff_bpm0i01aX_mean vs run
χ² / ndf 136.4 / 86
p0 39.42 ± 1.668
pull
Entries 87
Mean 1406
Std Dev 0

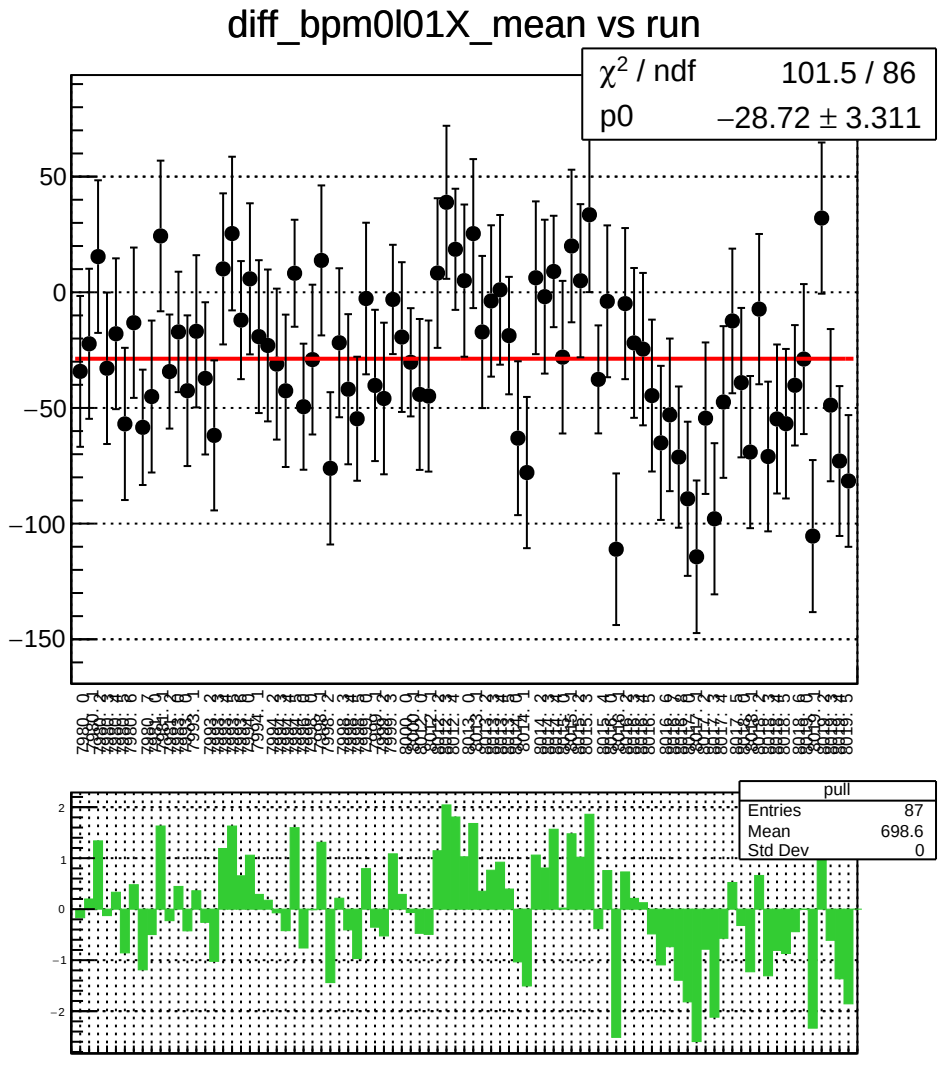

pull1D
Entries 87
Mean −0.002286
Std Dev 1.252

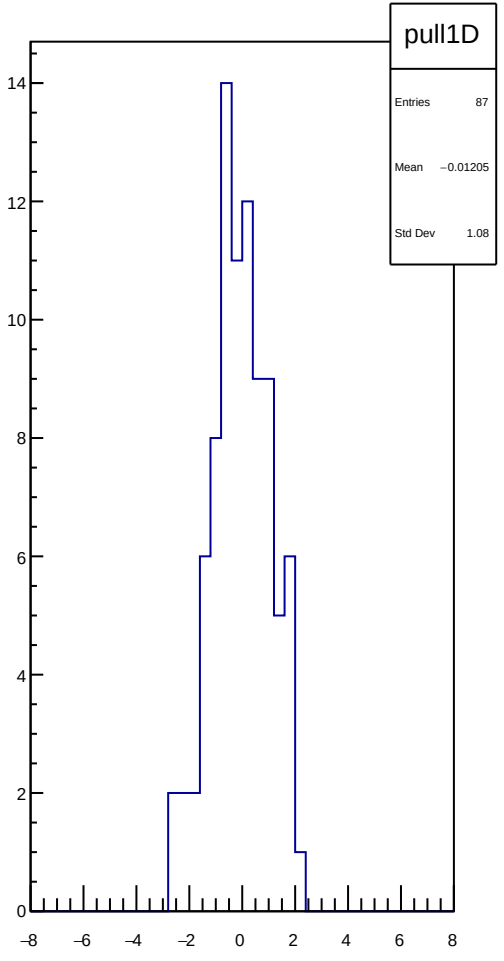

diff_bpm0i01aX_rms vs run
χ² / ndf 810 / 86
p0 1564 ± 1.179
1600
1550
1500
1450
1400

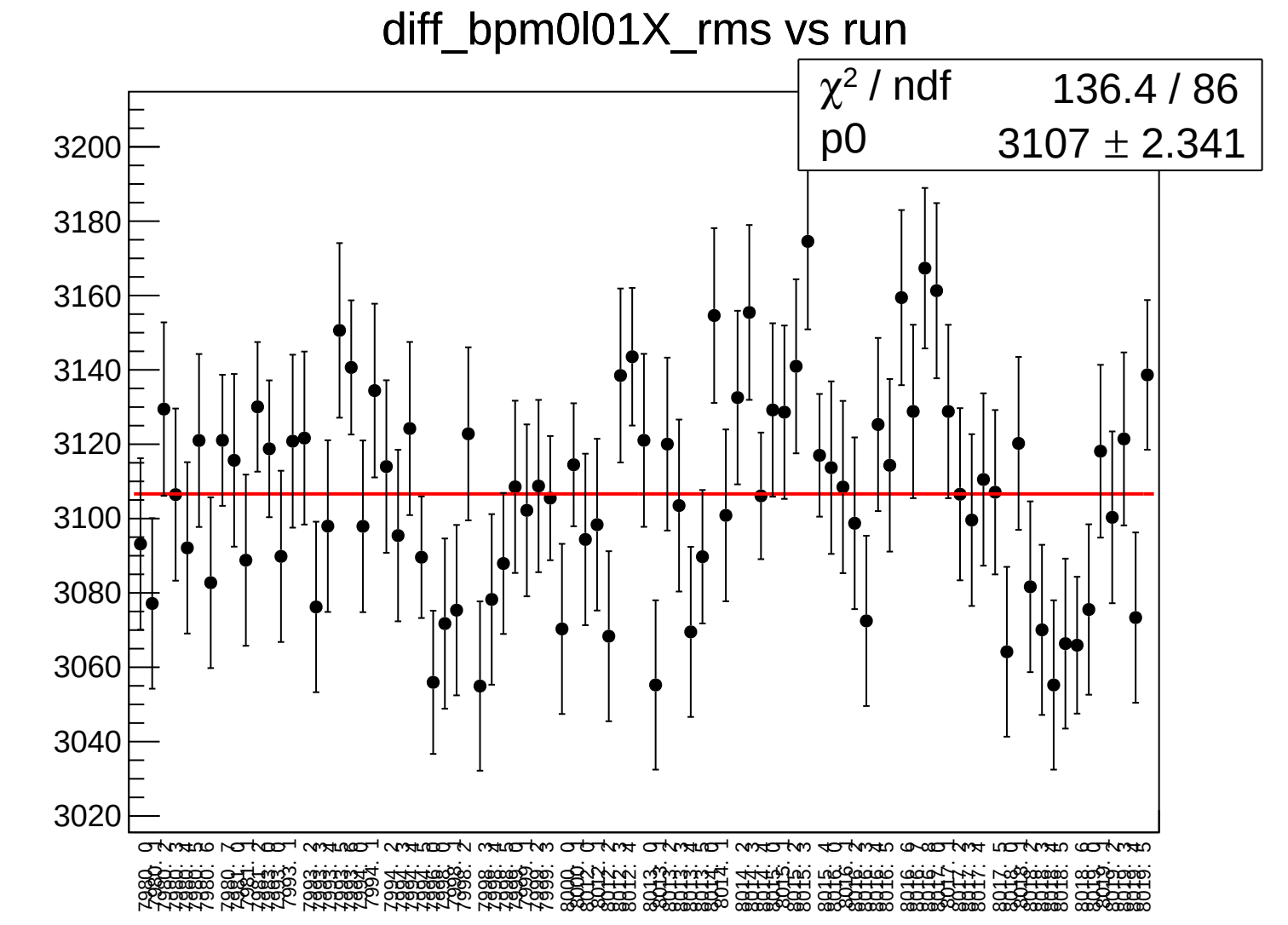

diff_bpm0i01aY_mean vs run
χ^2 / ndf 119.3 / 86
p0 18.44 ± 1.453
pull
Entries 87
Mean −900.5
Std Dev 0

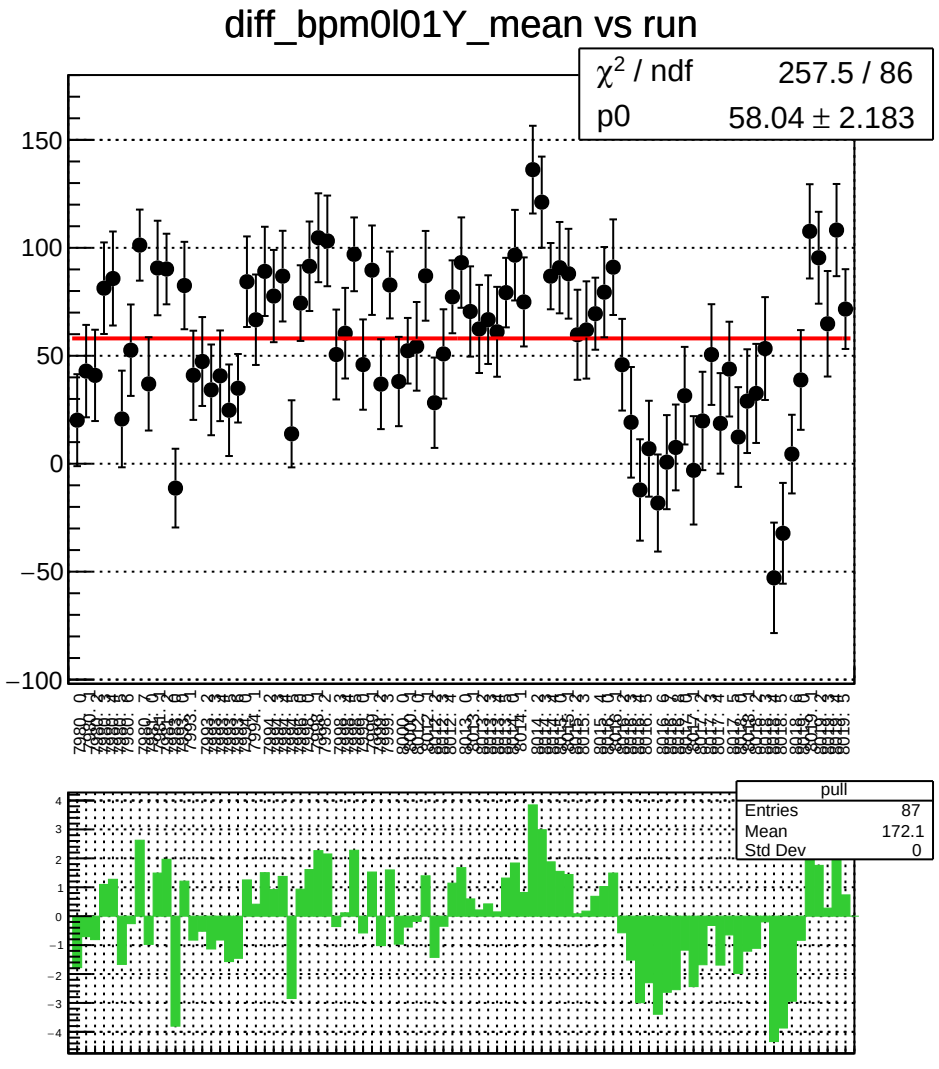

pull1D
Entries 87
Mean 0.009746
Std Dev 1.171

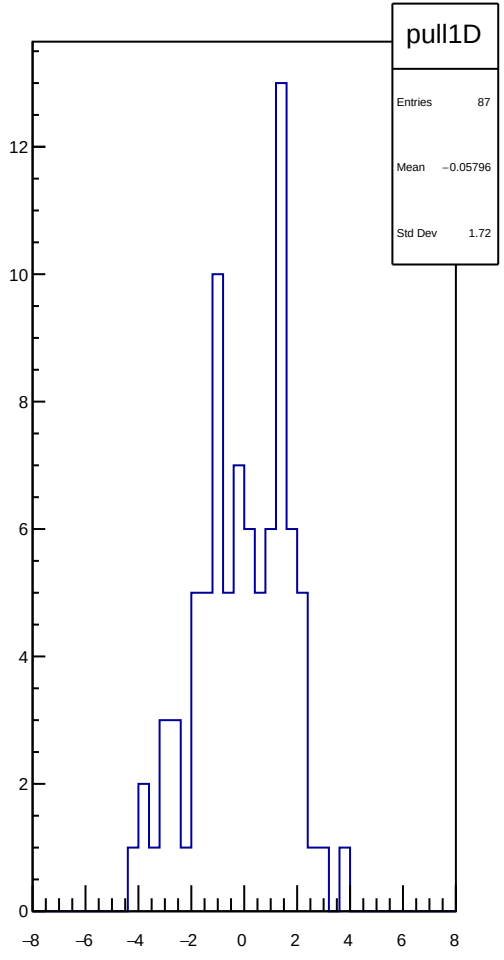

diff_bpm0i01aY_rms vs run
χ² / ndf 348.5 / 86
p0 1363 ± 1.027
1420
1400
1380
1360
1340
1320
1300
1280

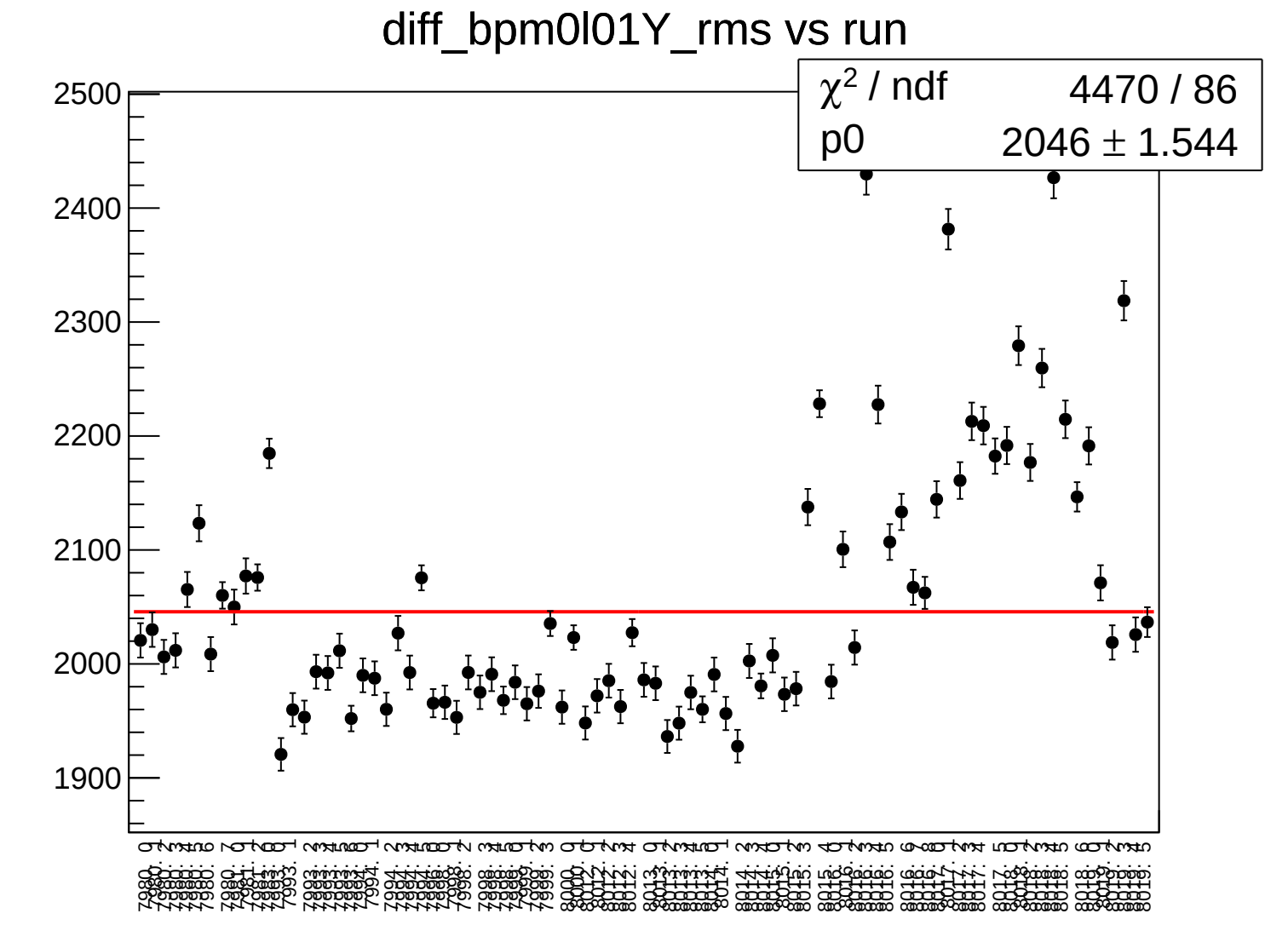

diff_bpm0l01X_mean vs run
χ² / ndf 101.5 / 86
p0 −28.72 ± 3.311
50
0
−50
−100
−150
pull
Entries 87
Mean 698.6
Std Dev 0
2
1
0
−1
−2

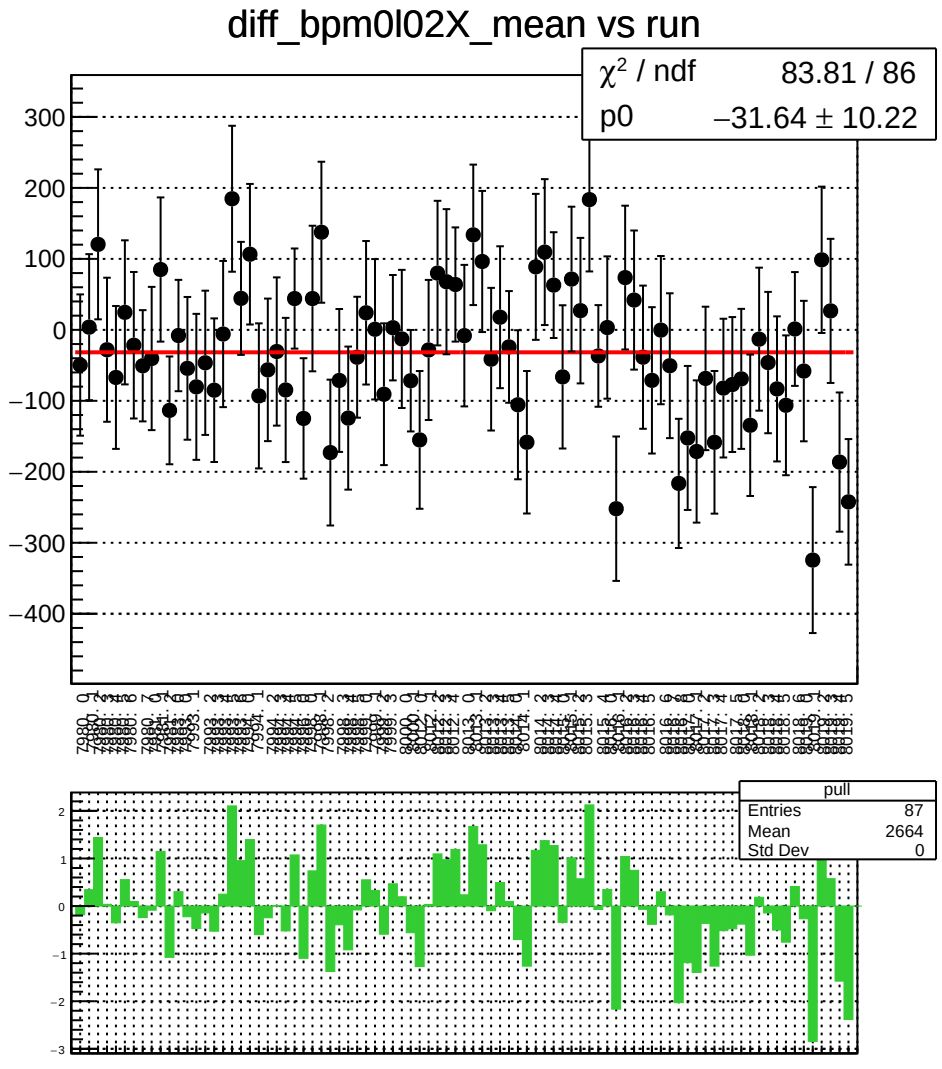

pull1D
Entries 87
Mean −0.01205
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

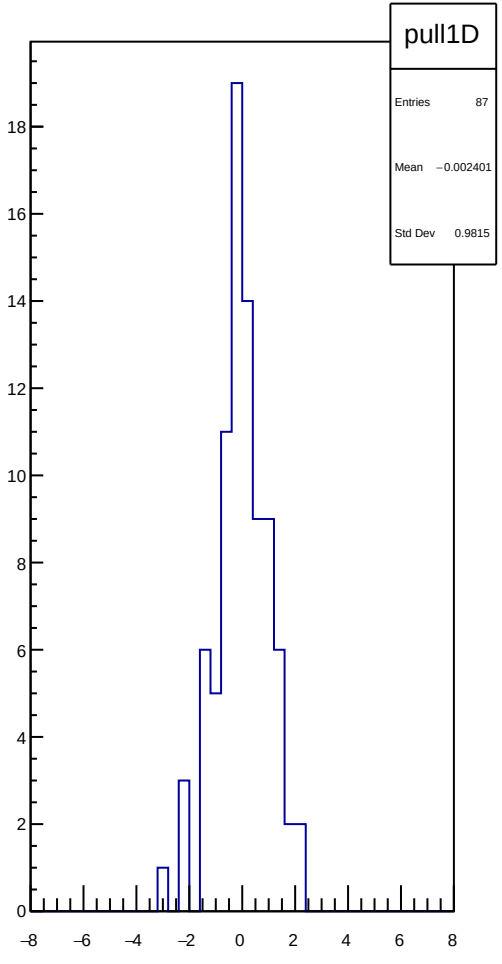

diff_bpm0l01X_rms vs run
χ² / ndf 136.4 / 86
p0 3107 ± 2.341
3200
3180
3160
3140
3120
3100
3080
3060
3040
3020

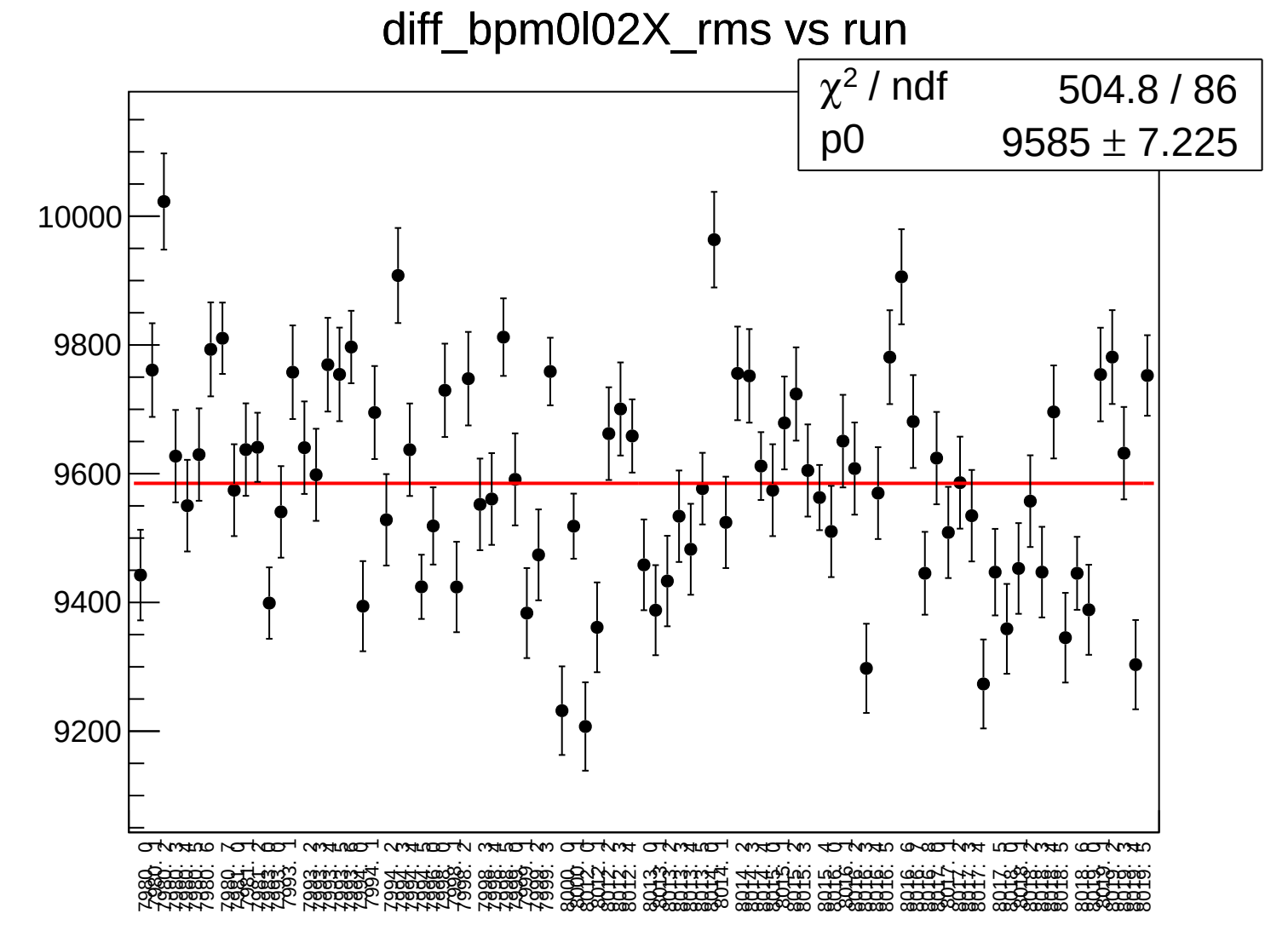

diff_bpm0l01Y_mean vs run
χ^2 / ndf 257.5 / 86
p0 58.04 ± 2.183
150
100
50
0
−50
−100
pull
Entries 87
Mean 172.1
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

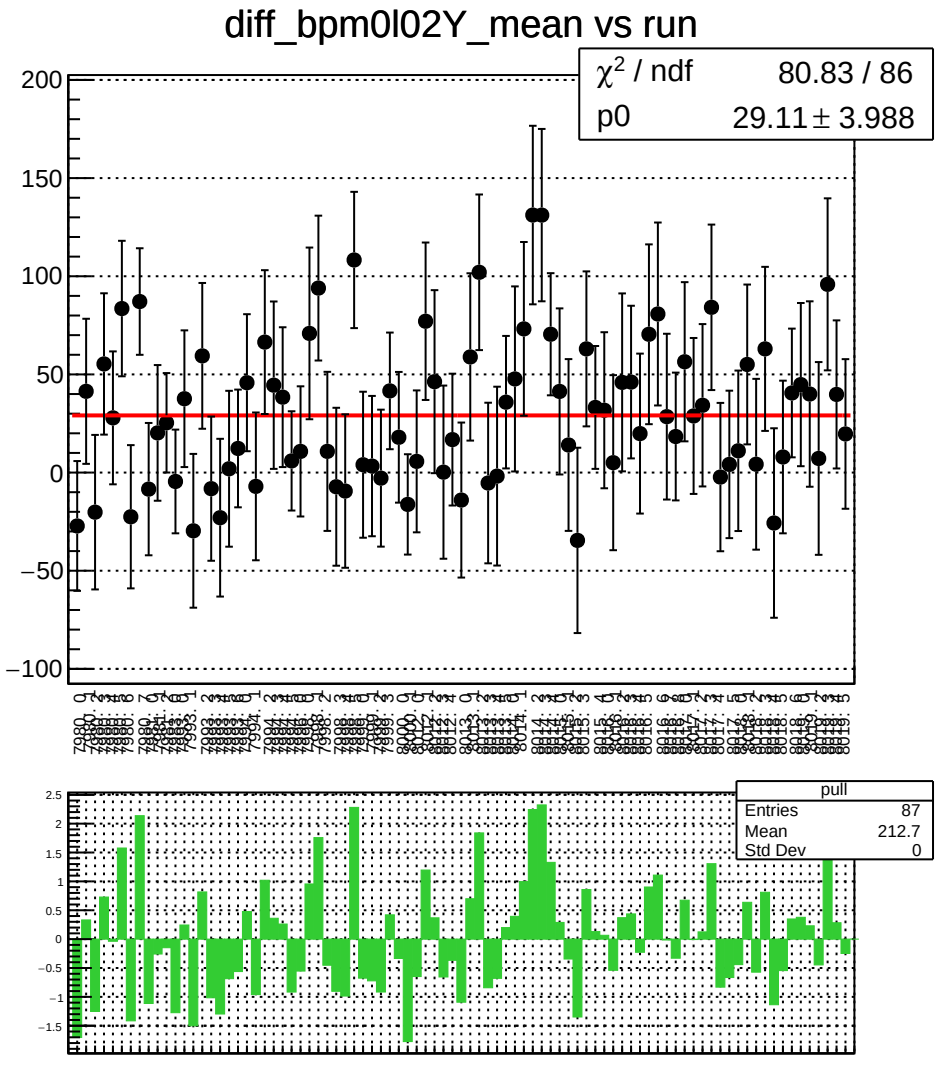

pull1D
Entries 87
Mean −0.05796
Std Dev 1.72
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

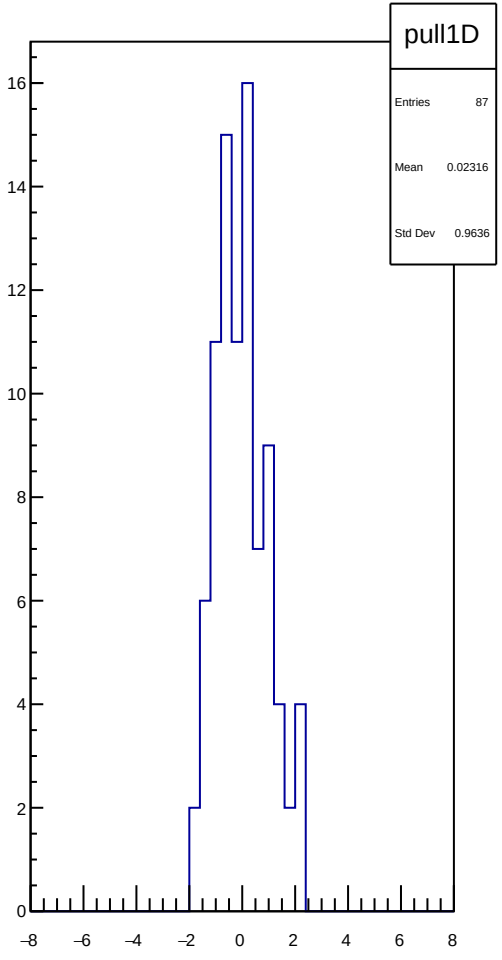

diff_bpm0l01Y_rms vs run
χ² / ndf 4470 / 86
p0 2046 ± 1.544
2500
2400
2300
2200
2100
2000
1900

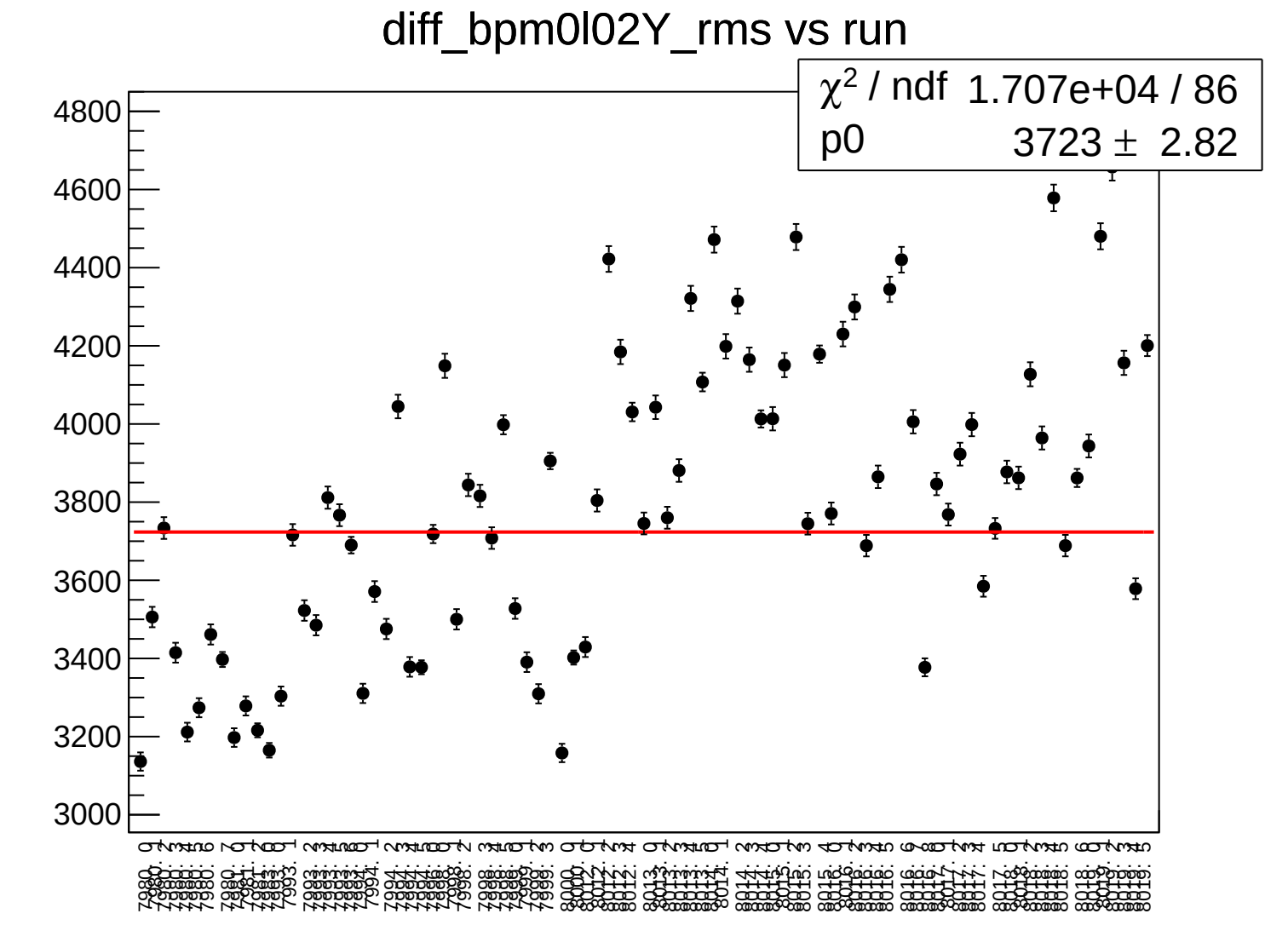

diff_bpm0l02X_mean vs run
χ² / ndf 83.81 / 86
p0 −31.64 ± 10.22
pull
Entries 87
Mean 2664
Std Dev 0

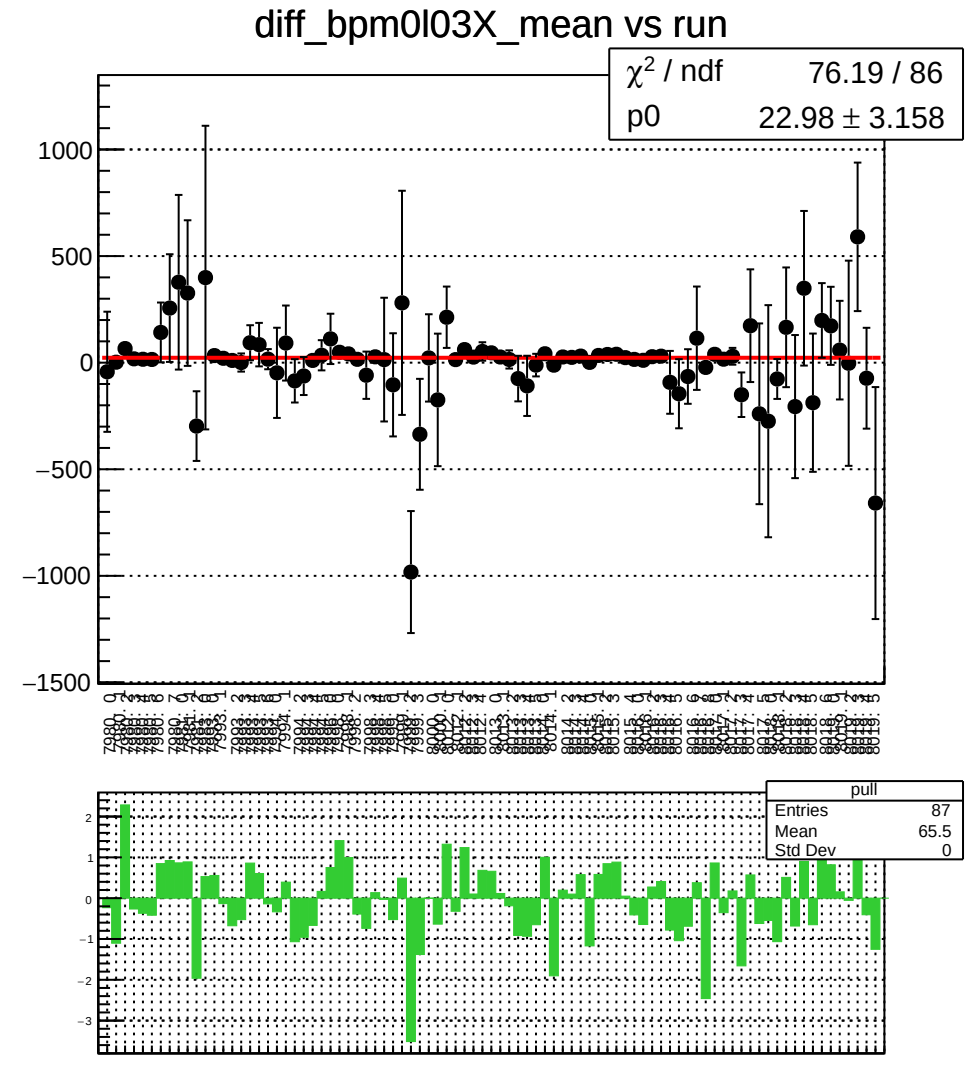

pull1D
Entries 87
Mean −0.002401
Std Dev 0.9815

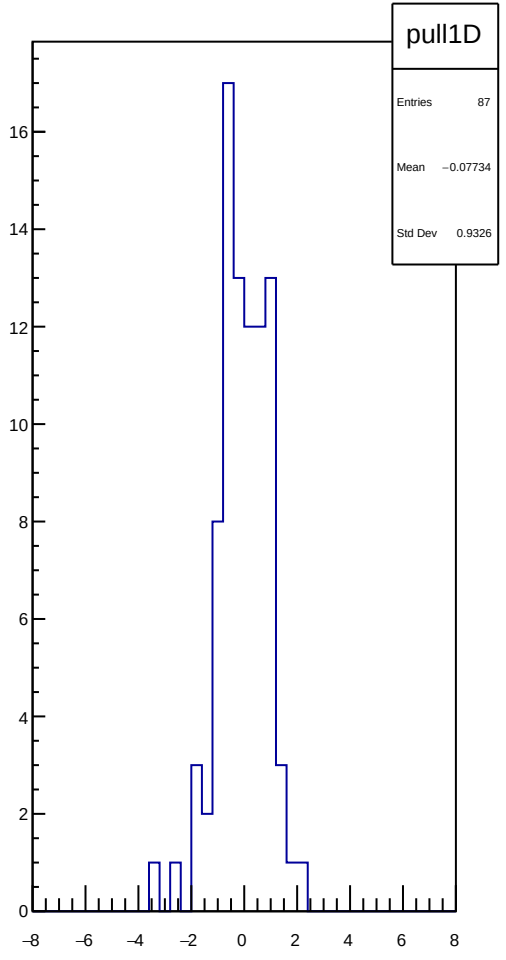

diff_bpm0l02X_rms vs run
χ² / ndf 504.8 / 86
p0 9585 ± 7.225
10000
9800
9600
9400
9200

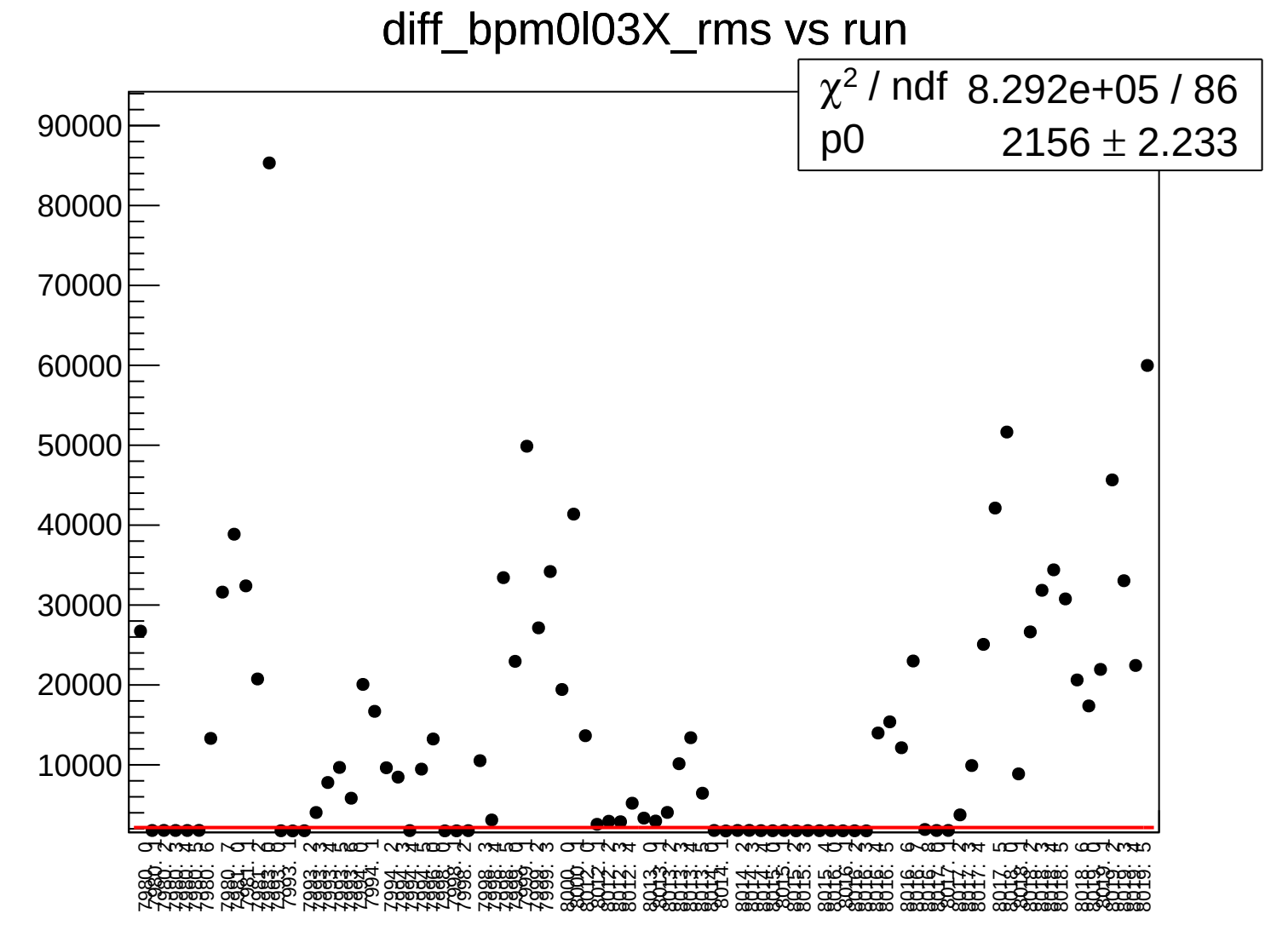

diff_bpm0l02Y_mean vs run
χ^2 / ndf 80.83 / 86
p0 29.11 ± 3.988
pull
Entries 87
Mean 212.7
Std Dev 0

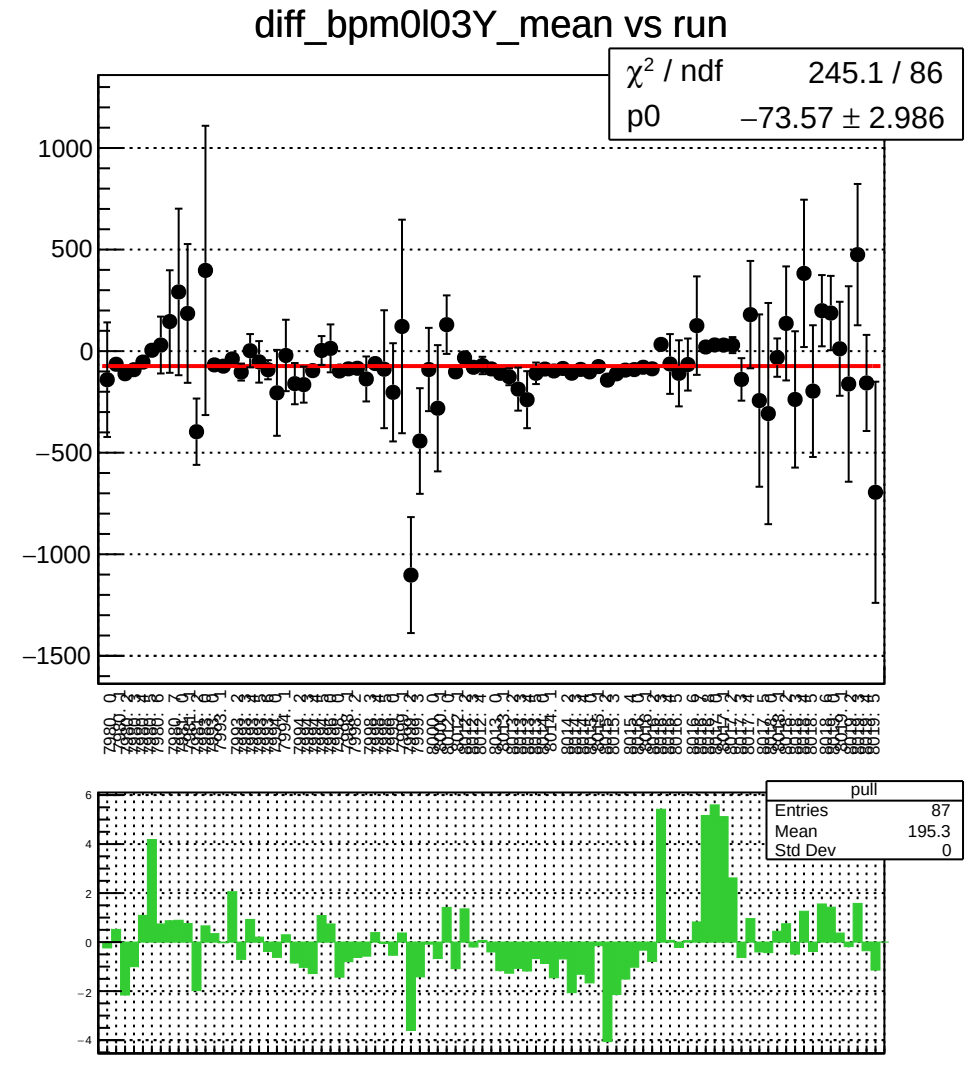

pull1D
Entries 87
Mean 0.02316
Std Dev 0.9636

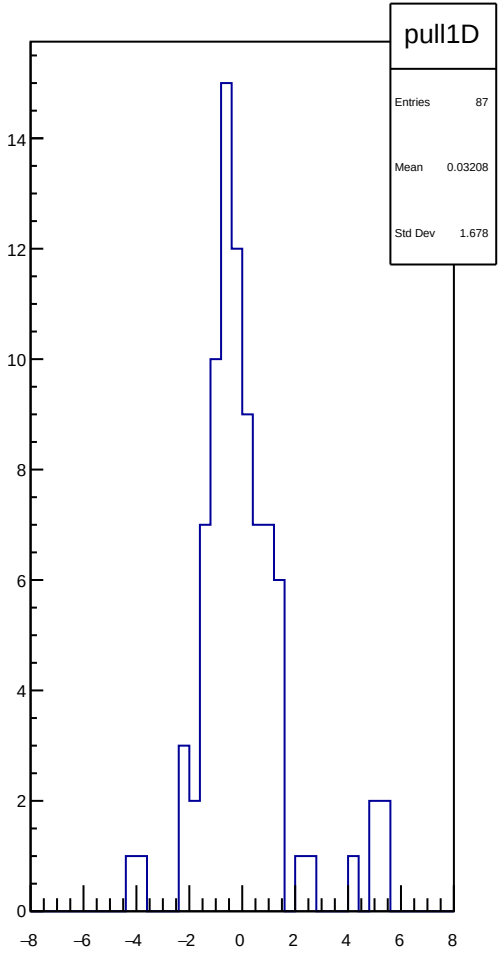

diff_bpm0l02Y_rms vs run
χ² / ndf 1.707e+04 / 86
p0 3723 ± 2.82
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

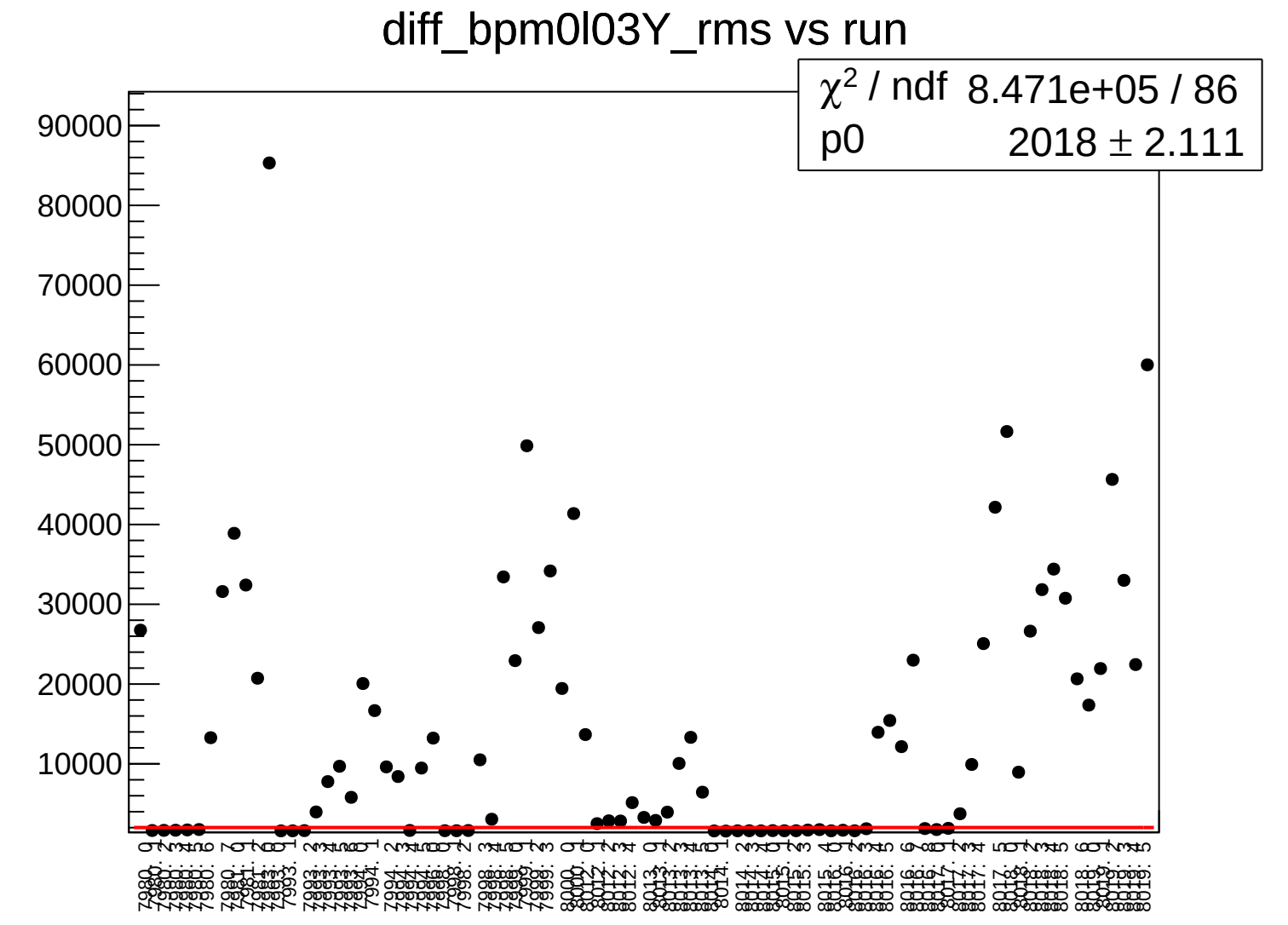

diff_bpm0l03X_mean vs run
χ² / ndf 76.19 / 86
p0 22.98 ± 3.158
pull
Entries 87
Mean 65.5
Std Dev 0

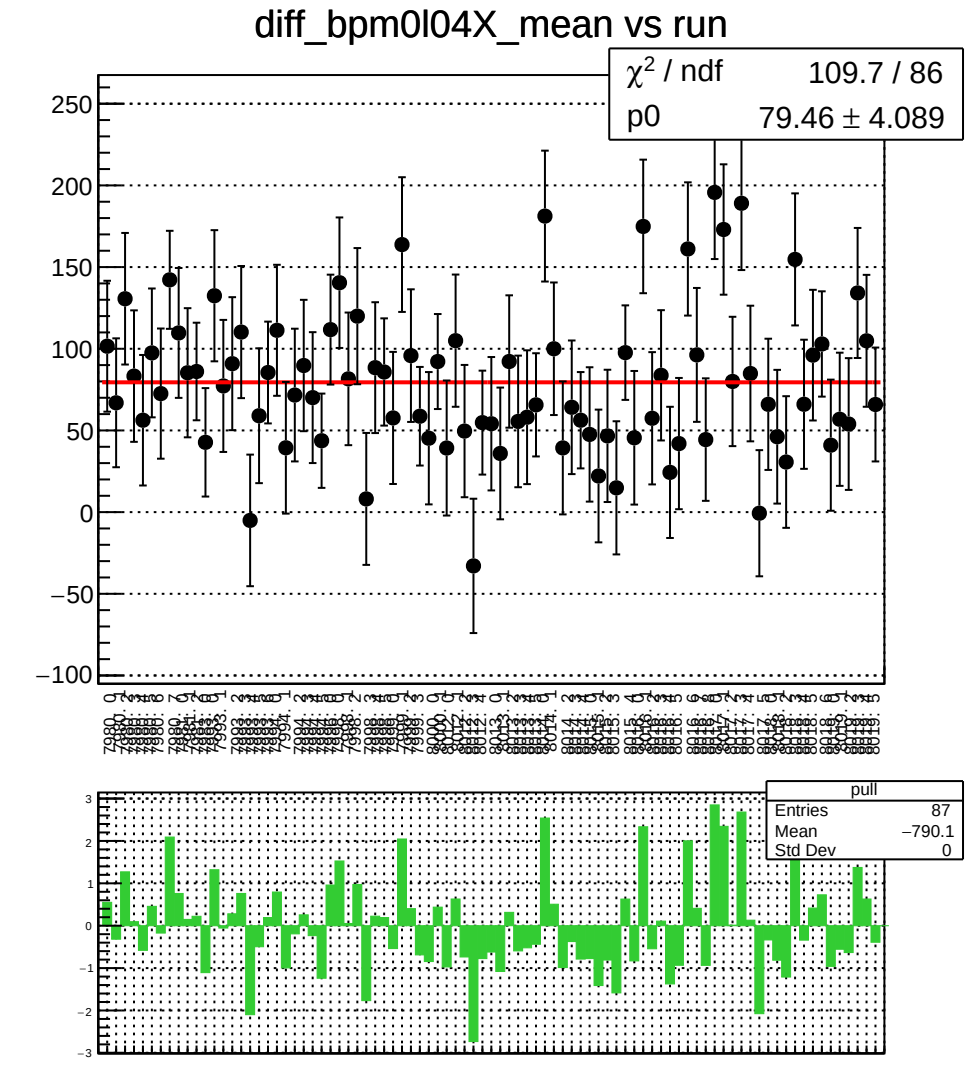

pull1D
Entries 87
Mean −0.07734
Std Dev 0.9326

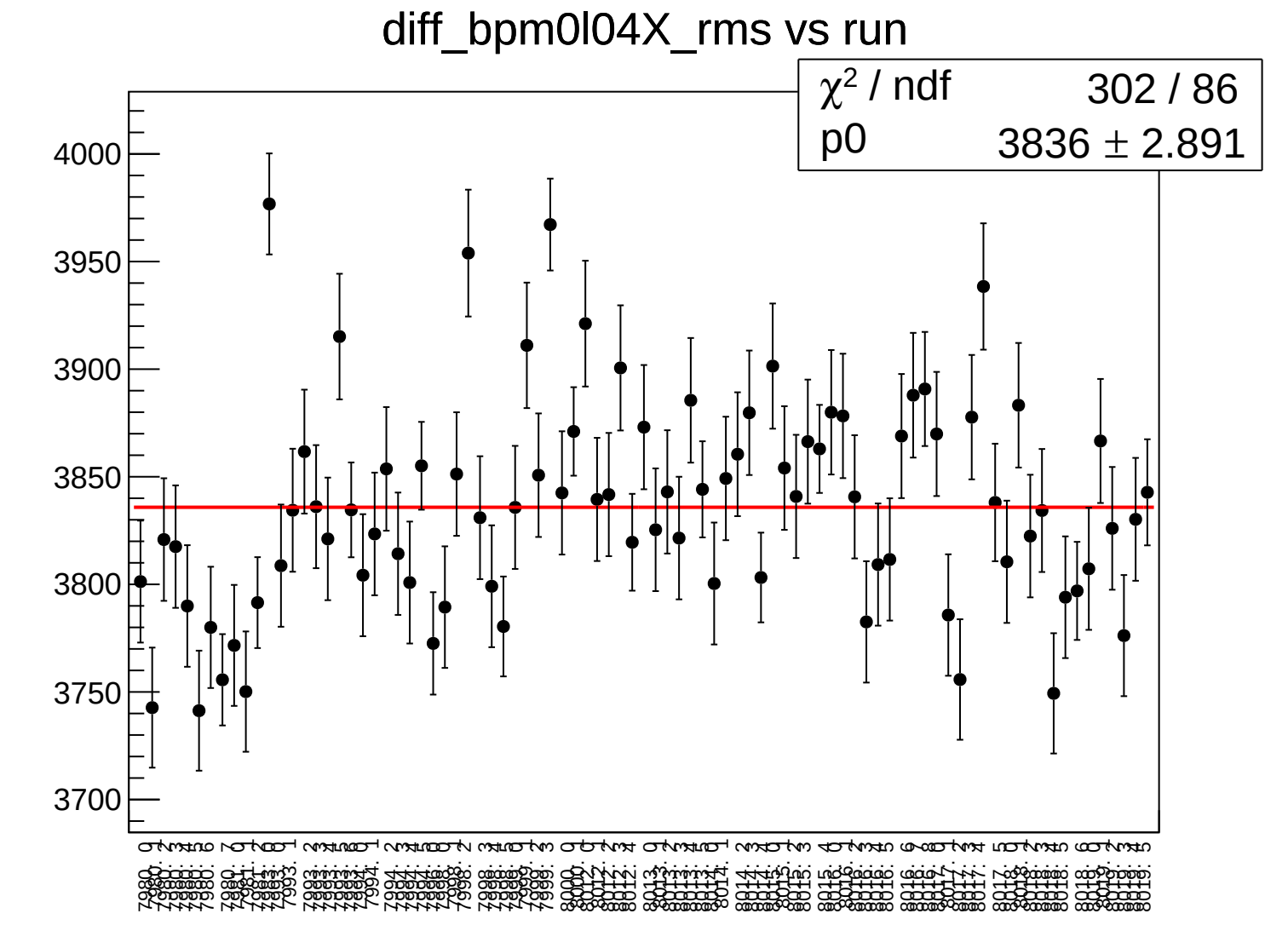

diff_bpm0l03X_rms vs run
χ^2 / ndf 8.292e+05 / 86
p0 2156 ± 2.233
90000
80000
70000
60000
50000
40000
30000
20000
10000

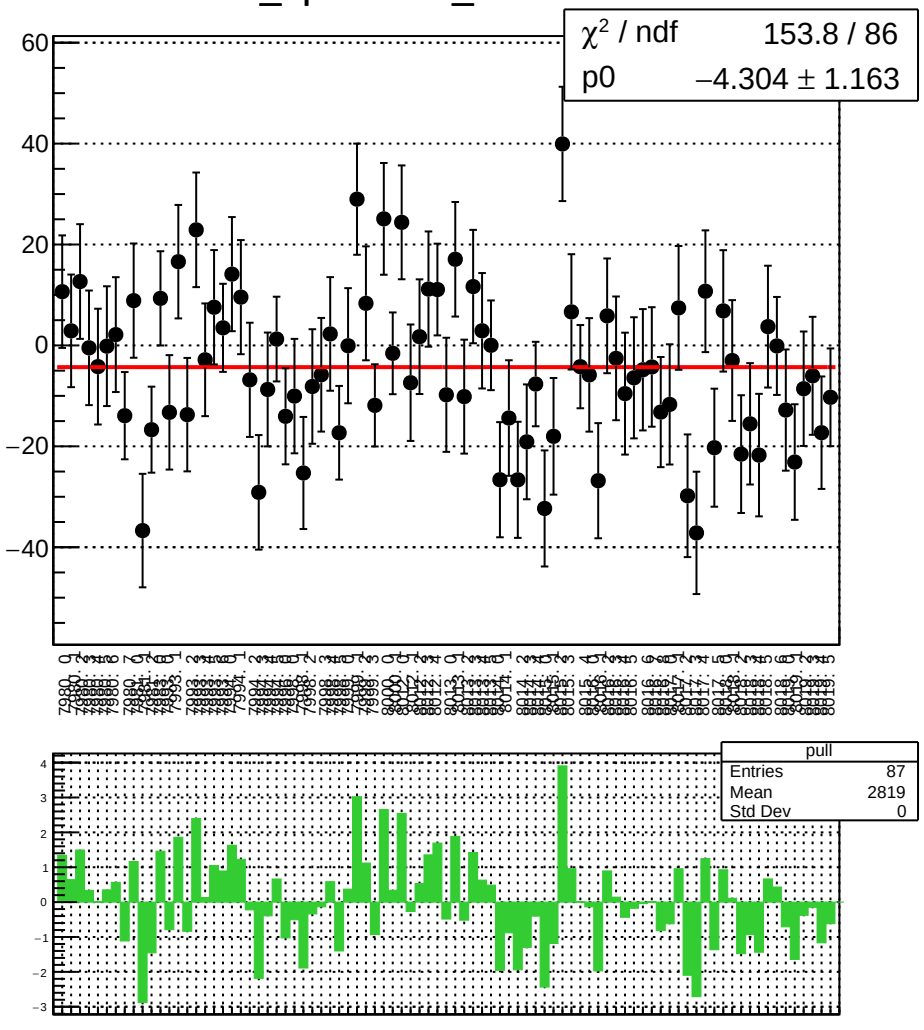

diff_bpm0l03Y_mean vs run
χ² / ndf 245.1 / 86
p0 −73.57 ± 2.986
pull
Entries 87
Mean 195.3
Std Dev 0

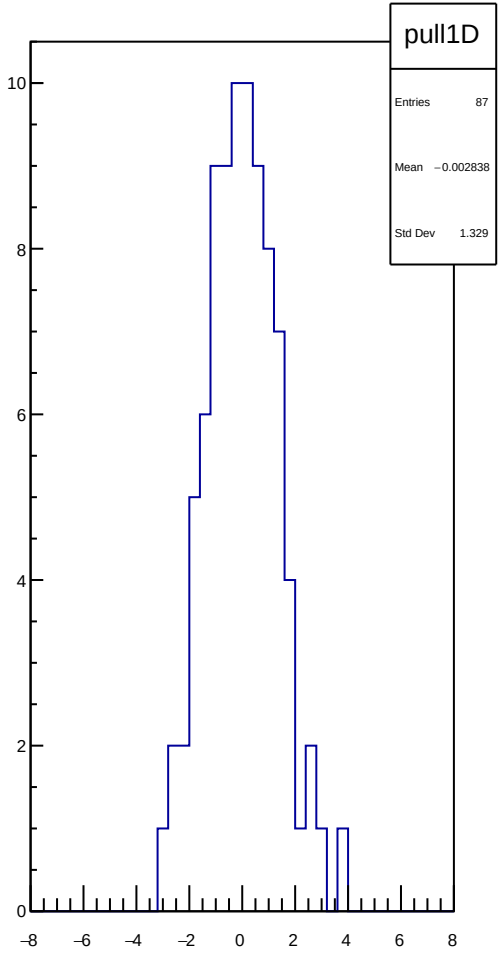

pull1D
Entries 87
Mean 0.03208
Std Dev 1.678

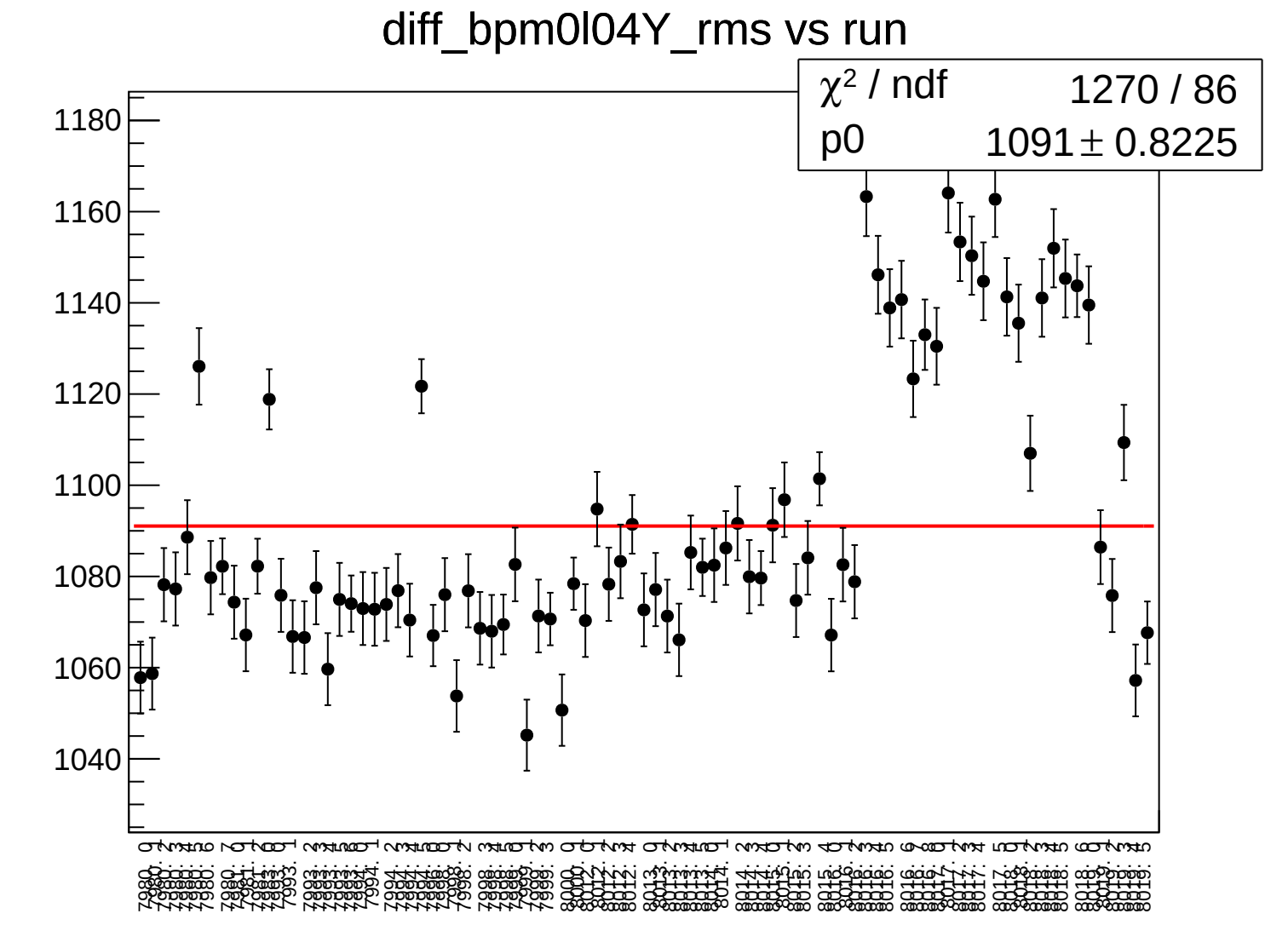

diff_bpm0l03Y_rms vs run
χ^2 / ndf 8.471e+05 / 86
p0 2018 ± 2.111
90000
80000
70000
60000
50000
40000
30000
20000
10000

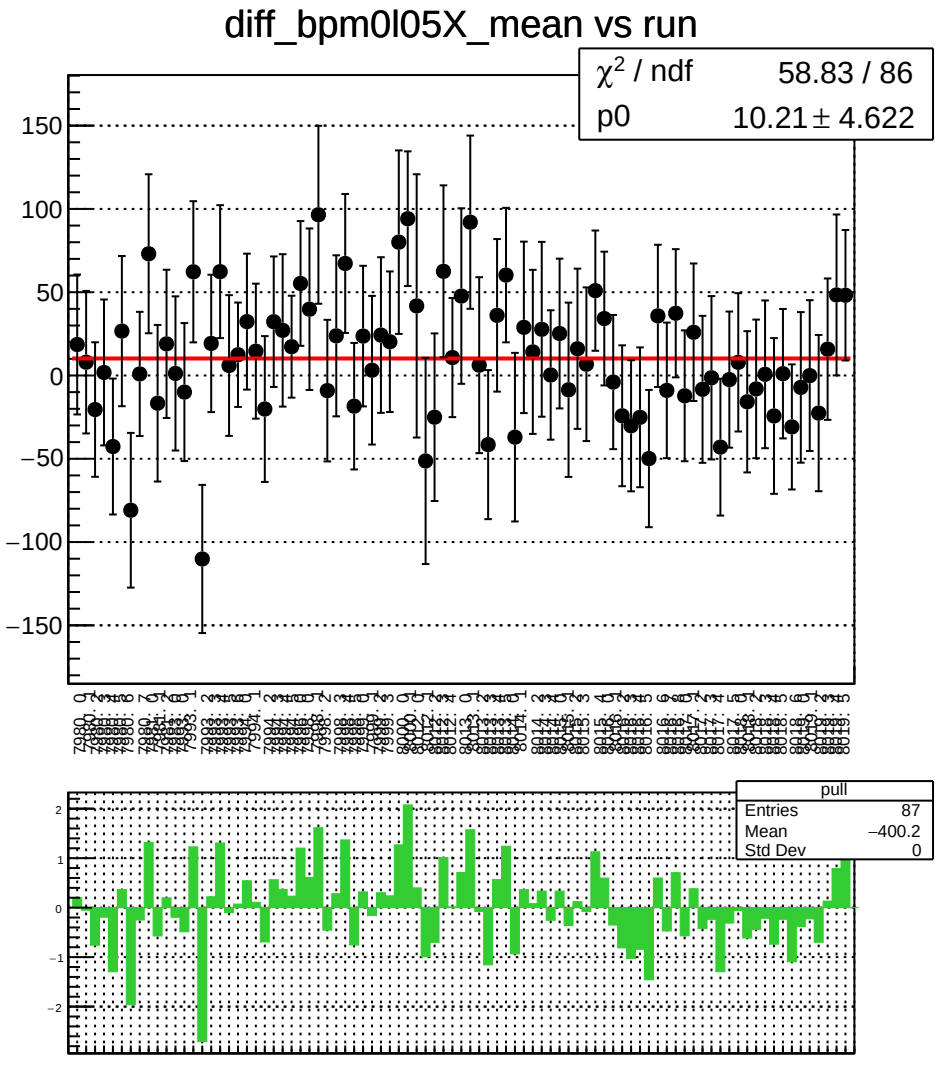

diff_bpm0l04X_mean vs run
χ² / ndf 109.7 / 86
p0 79.46 ± 4.089
pull
Entries 87
Mean −790.1
Std Dev 0
pull1D
Entries 87
Mean 0.0006684
Std Dev 1.123

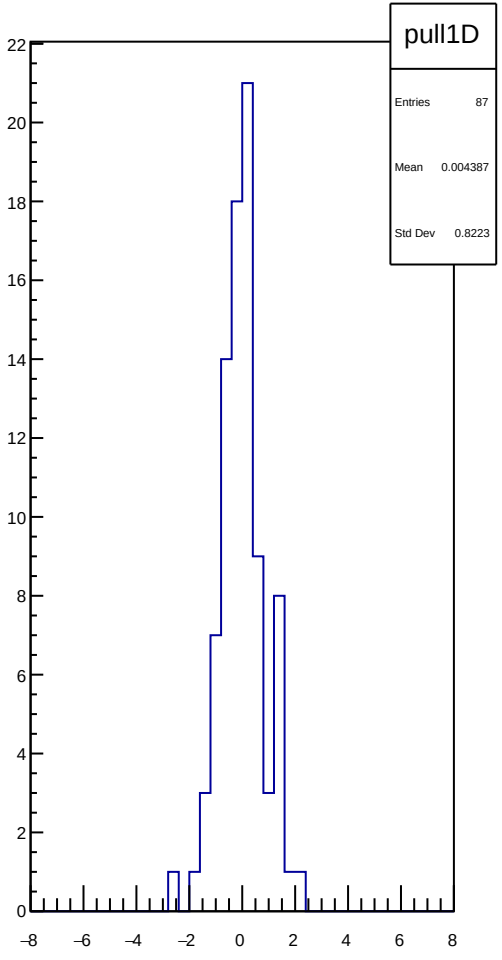

diff_bpm0l04X_rms vs run
χ² / ndf 302 / 86
p0 3836 ± 2.891
4000
3950
3900
3850
3800
3750
3700

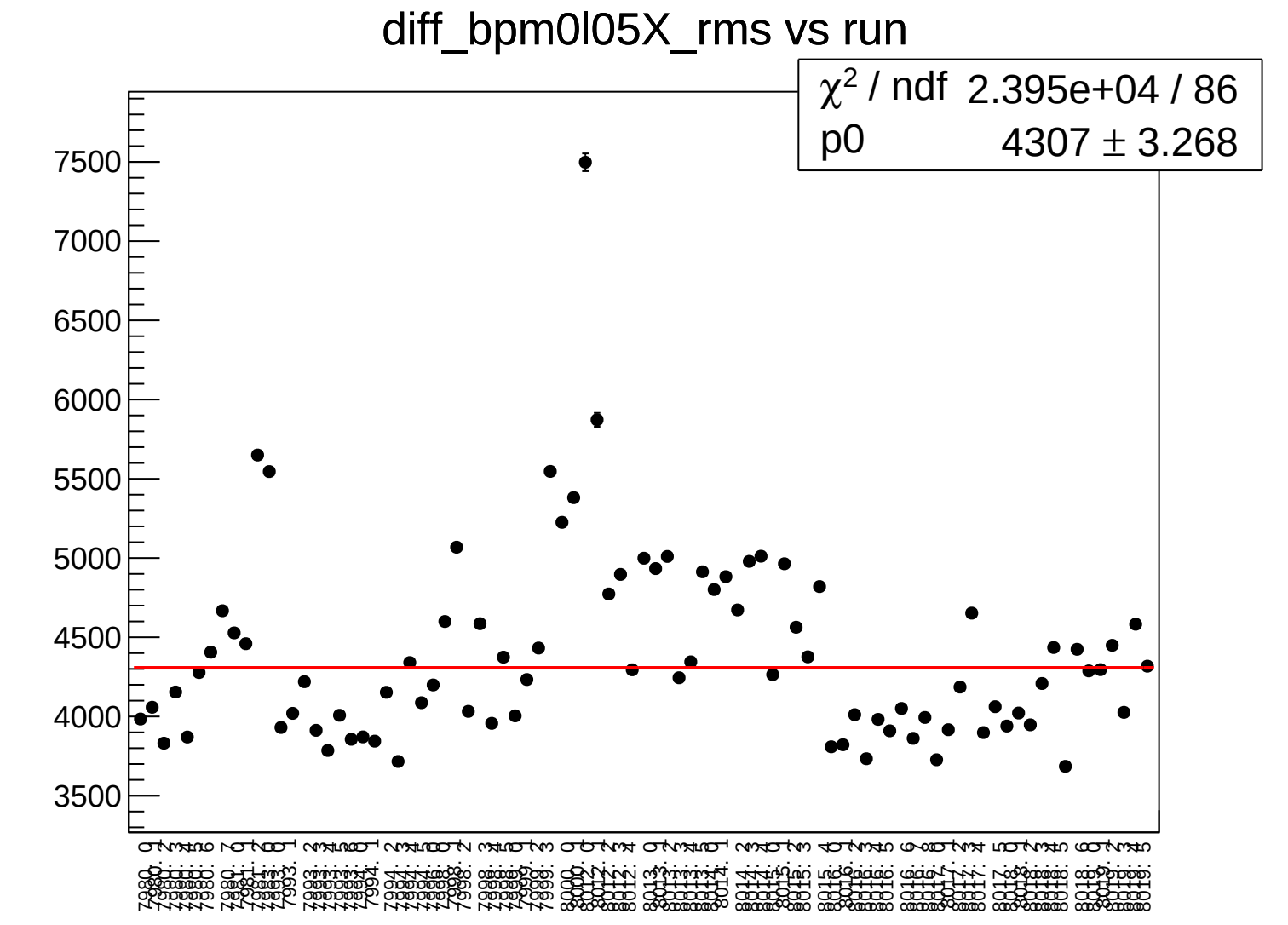

diff_bpm0l04Y_mean vs run
χ² / ndf 153.8 / 86
p0 −4.304 ± 1.163
pull
Entries 87
Mean 2819
Std Dev 0

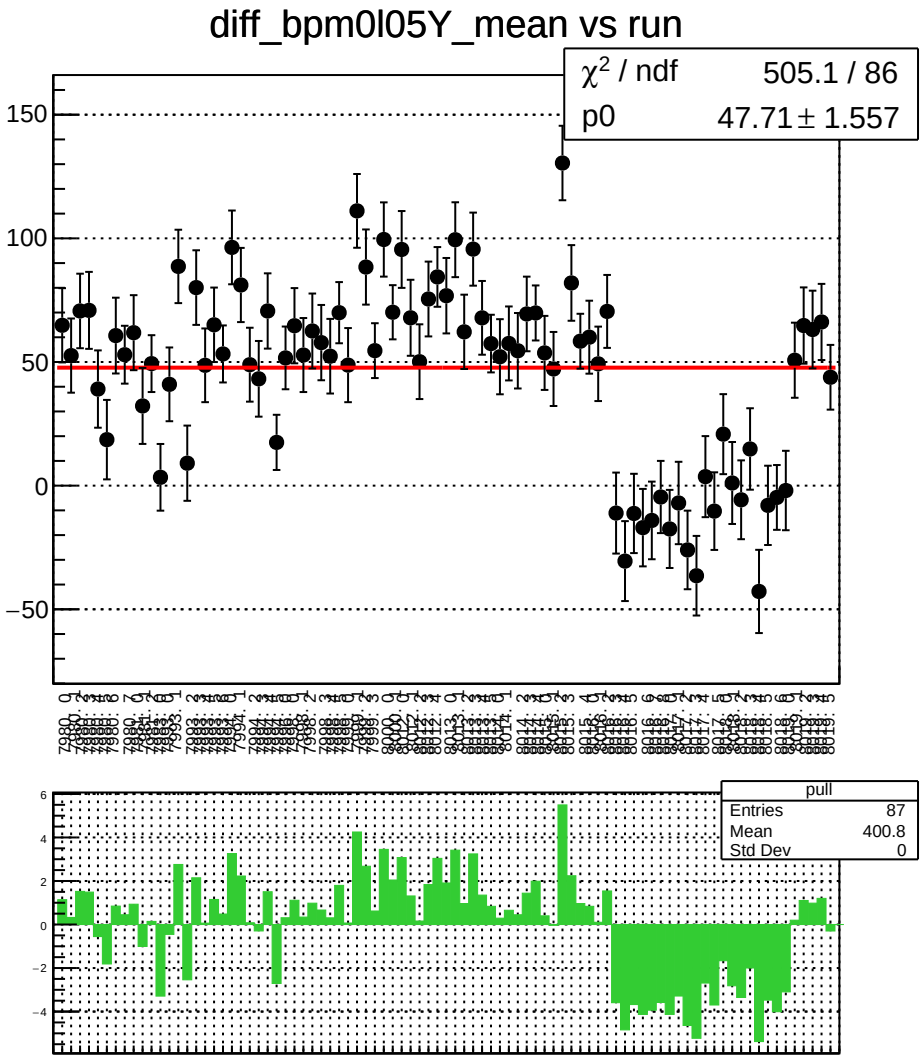

pull1D
Entries 87
Mean −0.002838
Std Dev 1.329

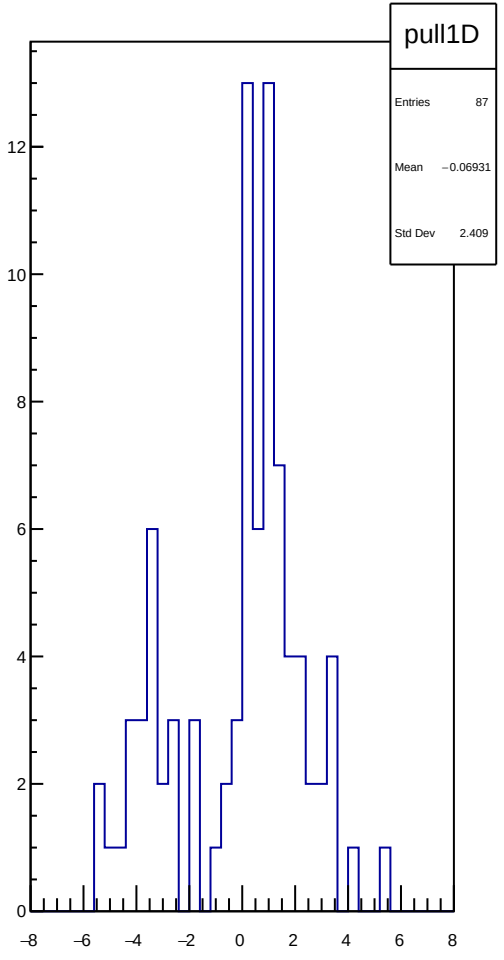

diff_bpm0l04Y_rms vs run
χ² / ndf 1270 / 86
p0 1091 ± 0.8225
1180
1160
1140
1120
1100
1080
1060
1040

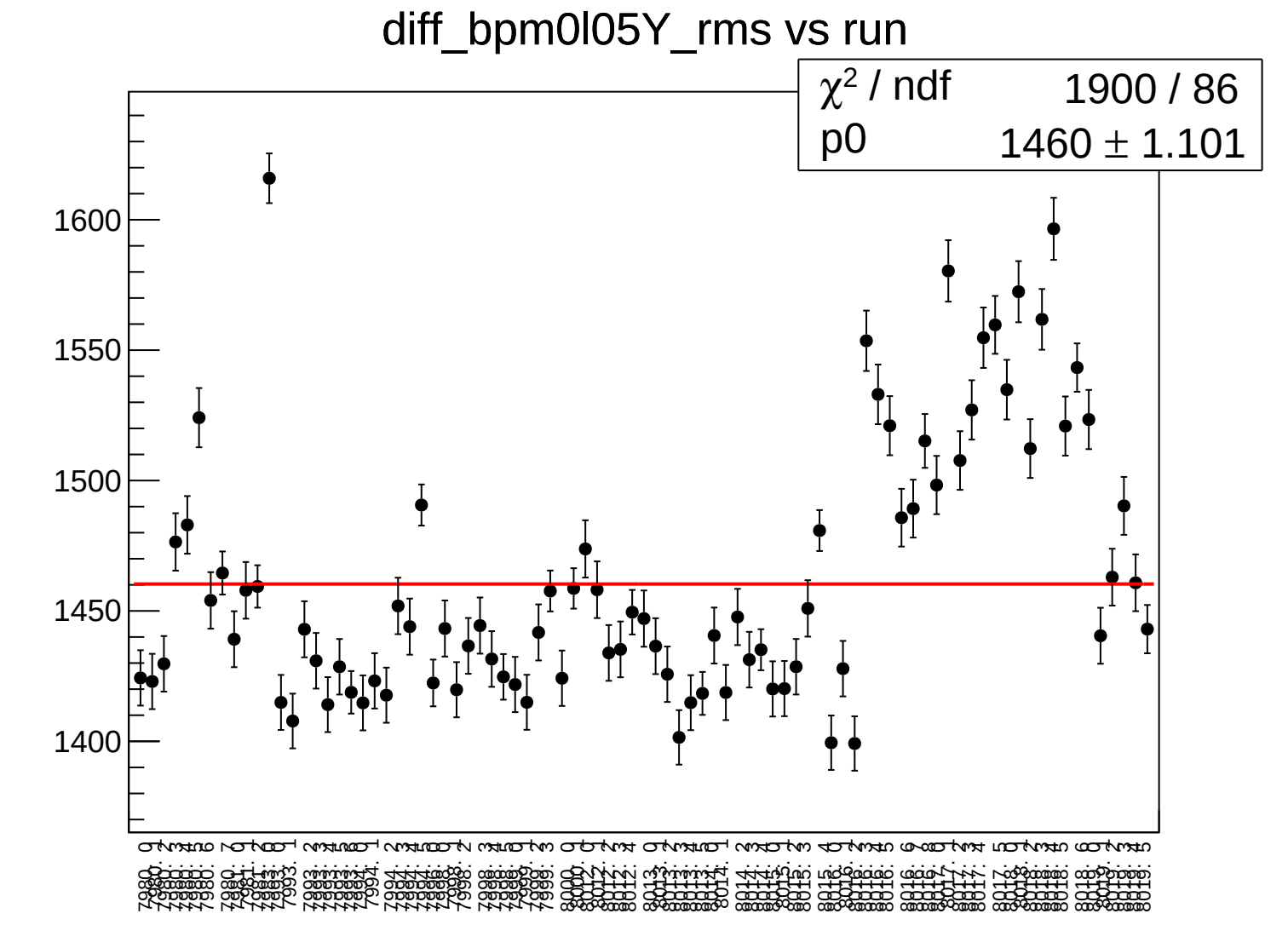

diff_bpm0l05X_mean vs run
χ^2 / ndf 58.83 / 86
p0 10.21 ± 4.622
pull
Entries 87
Mean −400.2
Std Dev 0

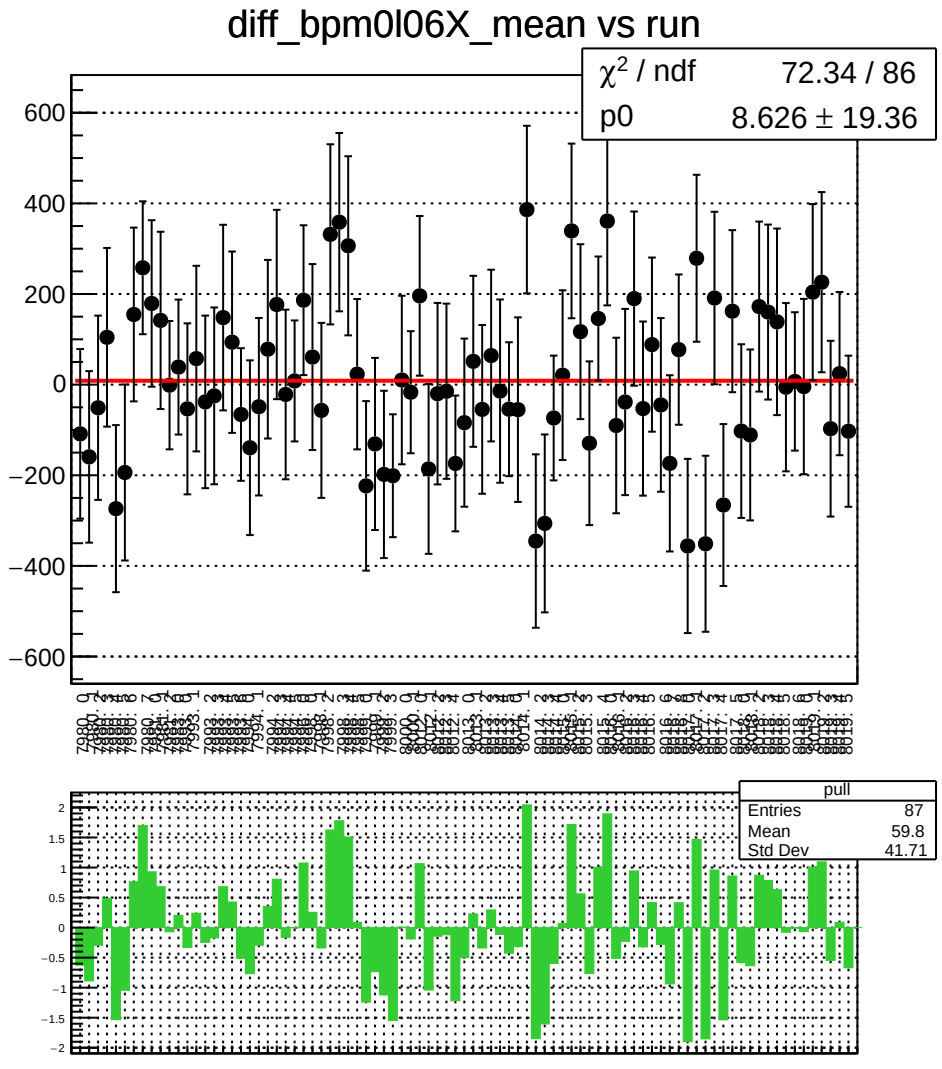

pull1D
Entries 87
Mean 0.004387
Std Dev 0.8223

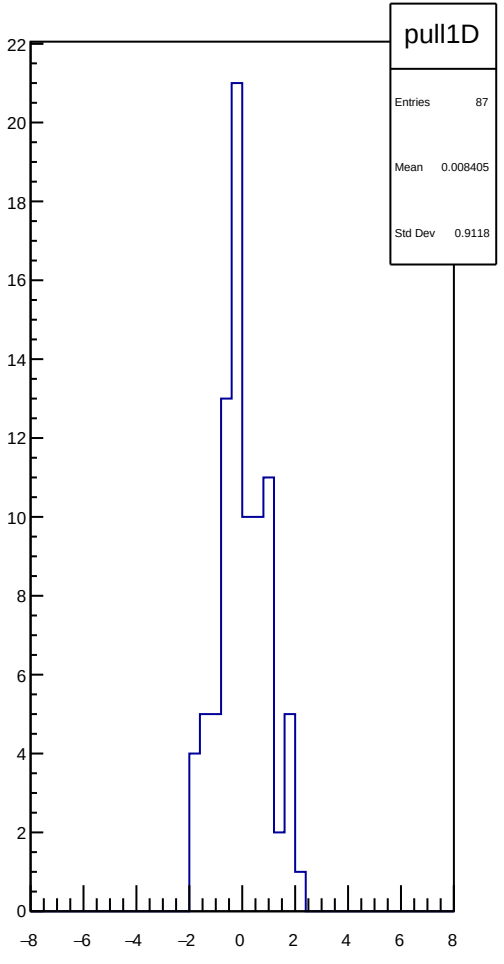

diff_bpm0l05X_rms vs run
χ^2 / ndf 2.395e+04 / 86
p0 4307 ± 3.268
7500
7000
6500
6000
5500
5000
4500
4000
3500

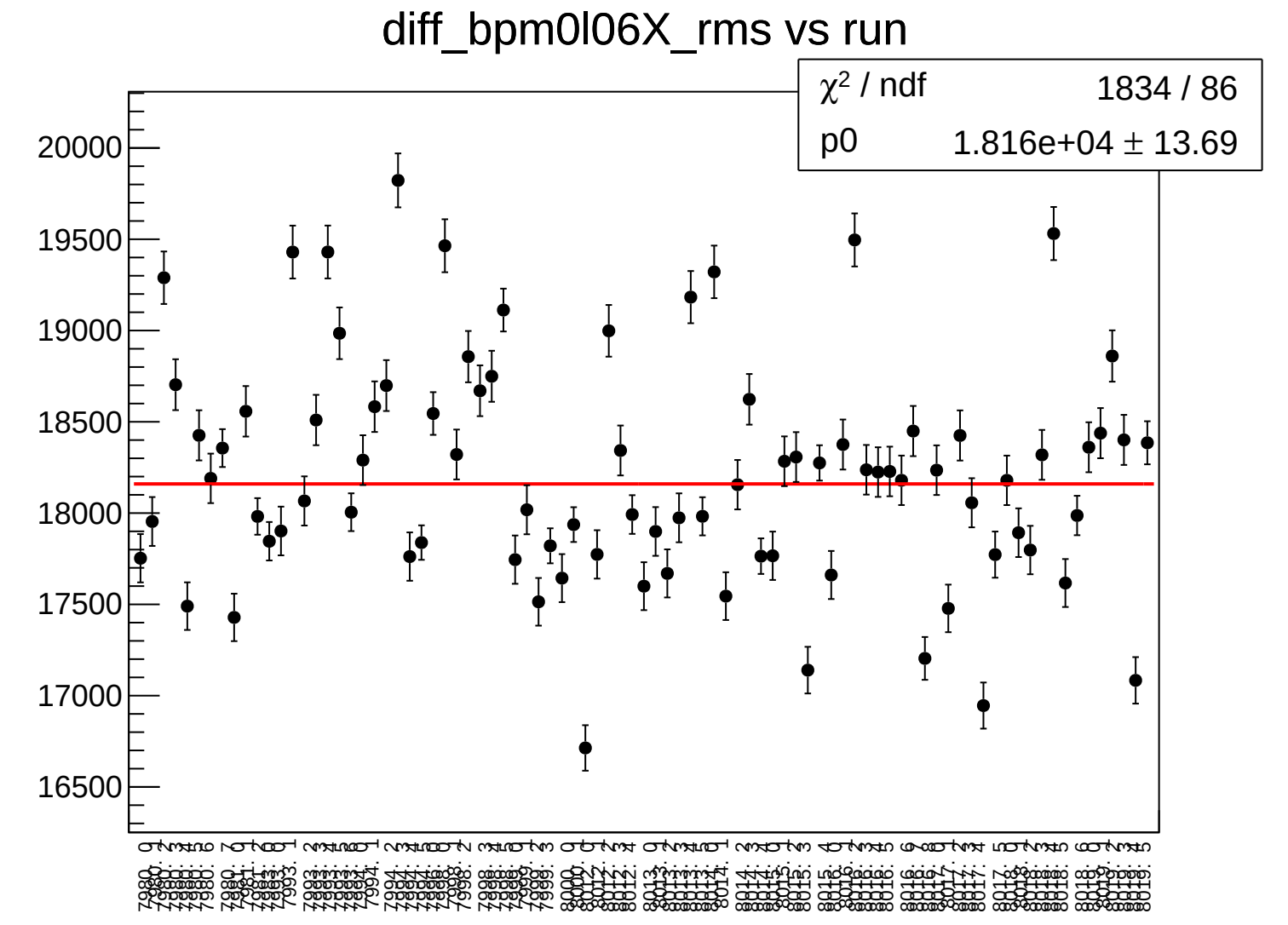

diff_bpm0l05Y_mean vs run
χ^2 / ndf 505.1 / 86
p0 47.71 ± 1.557
150
100
50
0
−50
pull
Entries 87
Mean 400.8
Std Dev 0
6
4
2
0
−2
−4

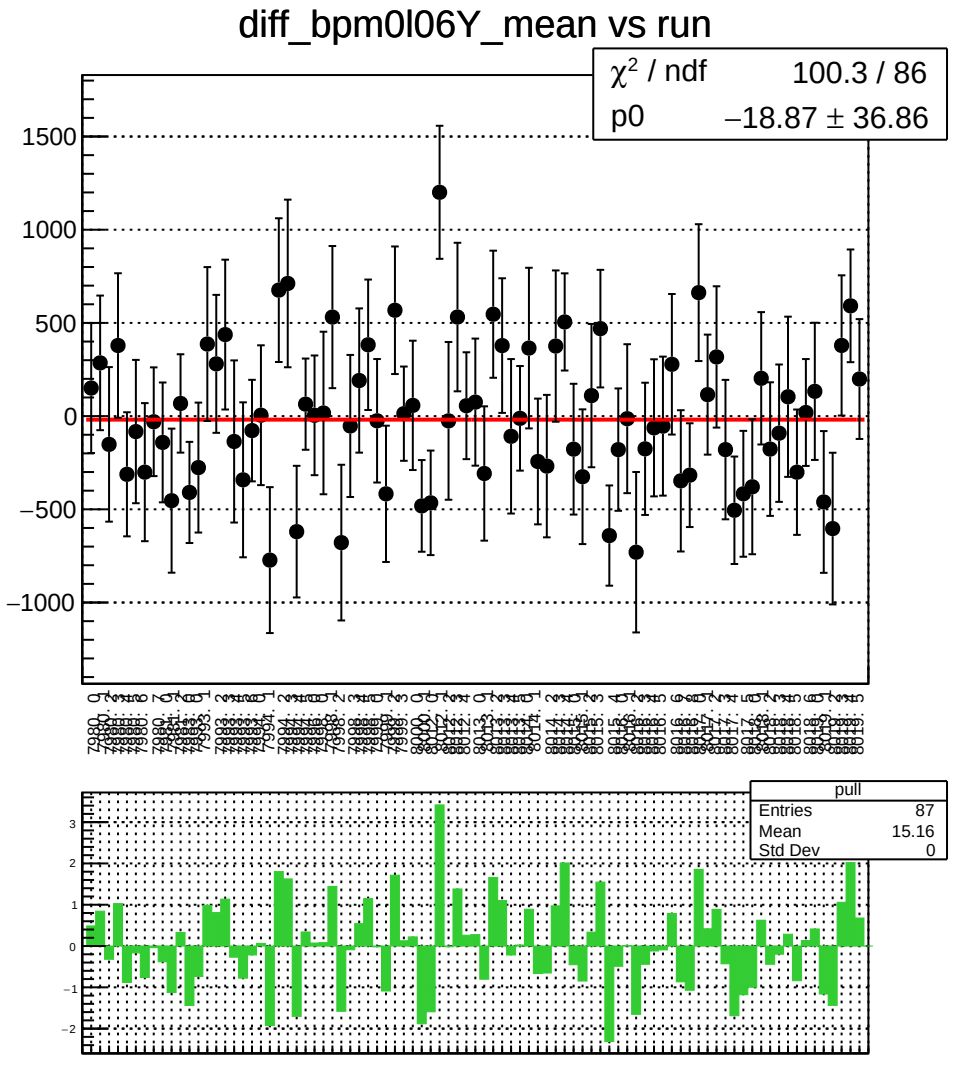

pull1D
Entries 87
Mean −0.06931
Std Dev 2.409
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

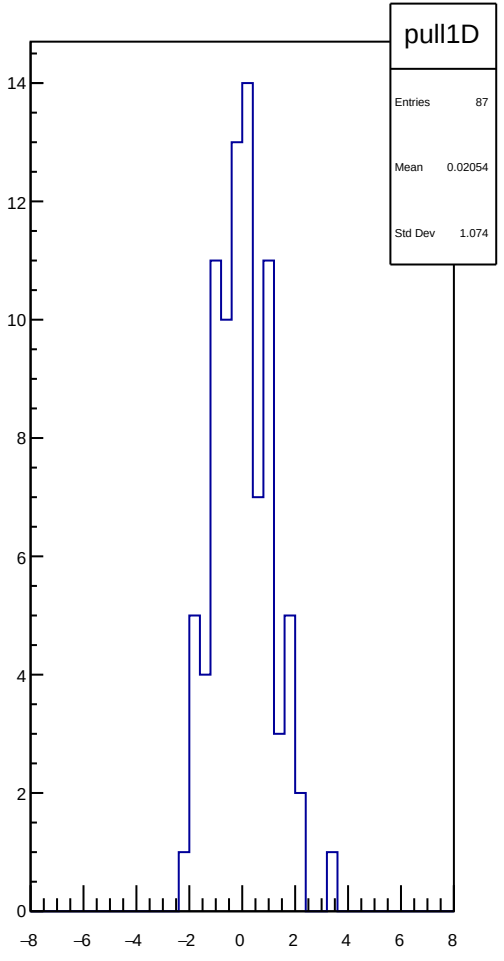

diff_bpm0l05Y_rms vs run
χ² / ndf 1900 / 86
p0 1460 ± 1.101
1600
1550
1500
1450
1400

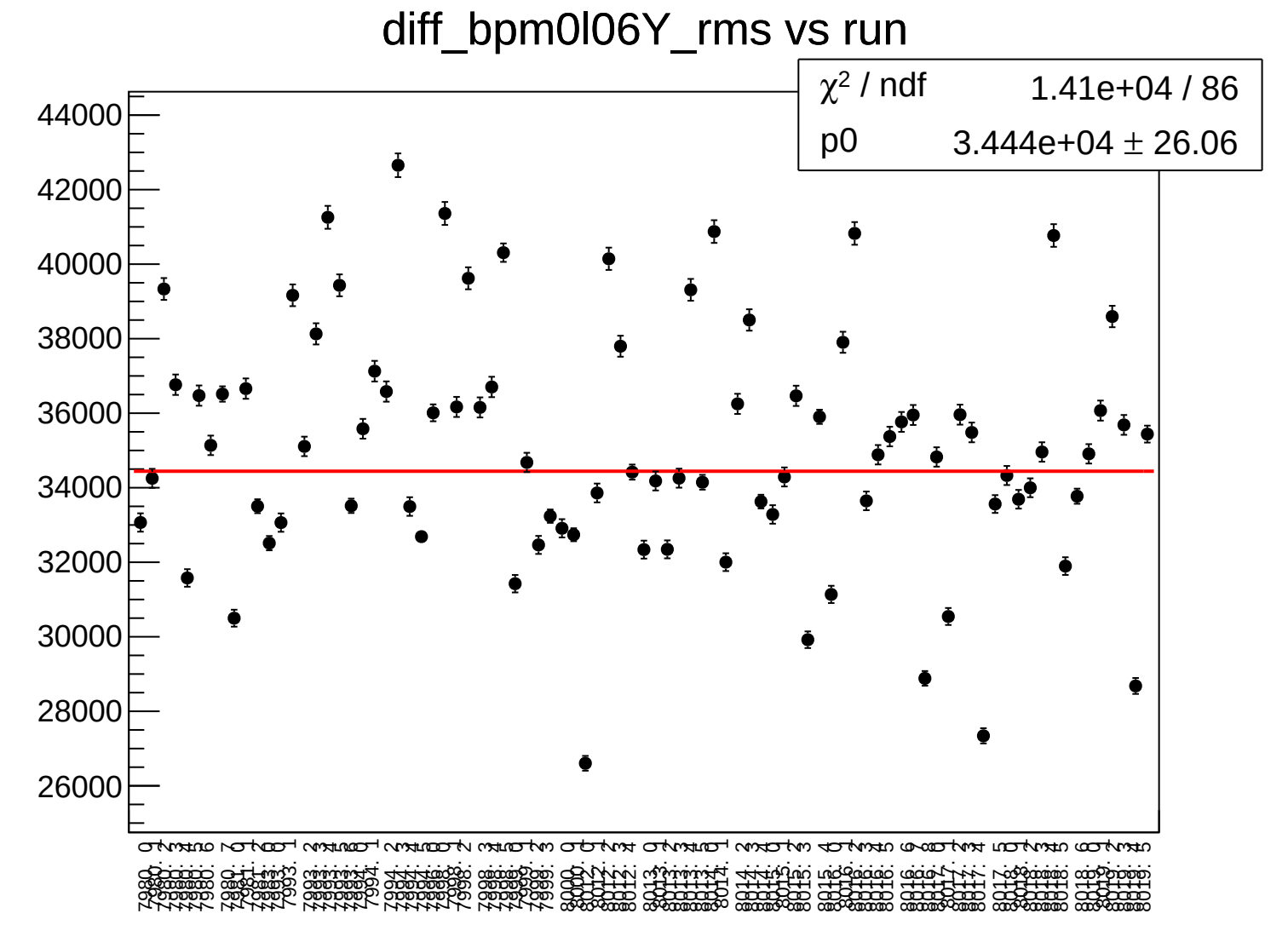

diff_bpm0l06X_mean vs run
χ^2 / ndf 72.34 / 86
p0 8.626 ± 19.36
pull
Entries 87
Mean 59.8
Std Dev 41.71

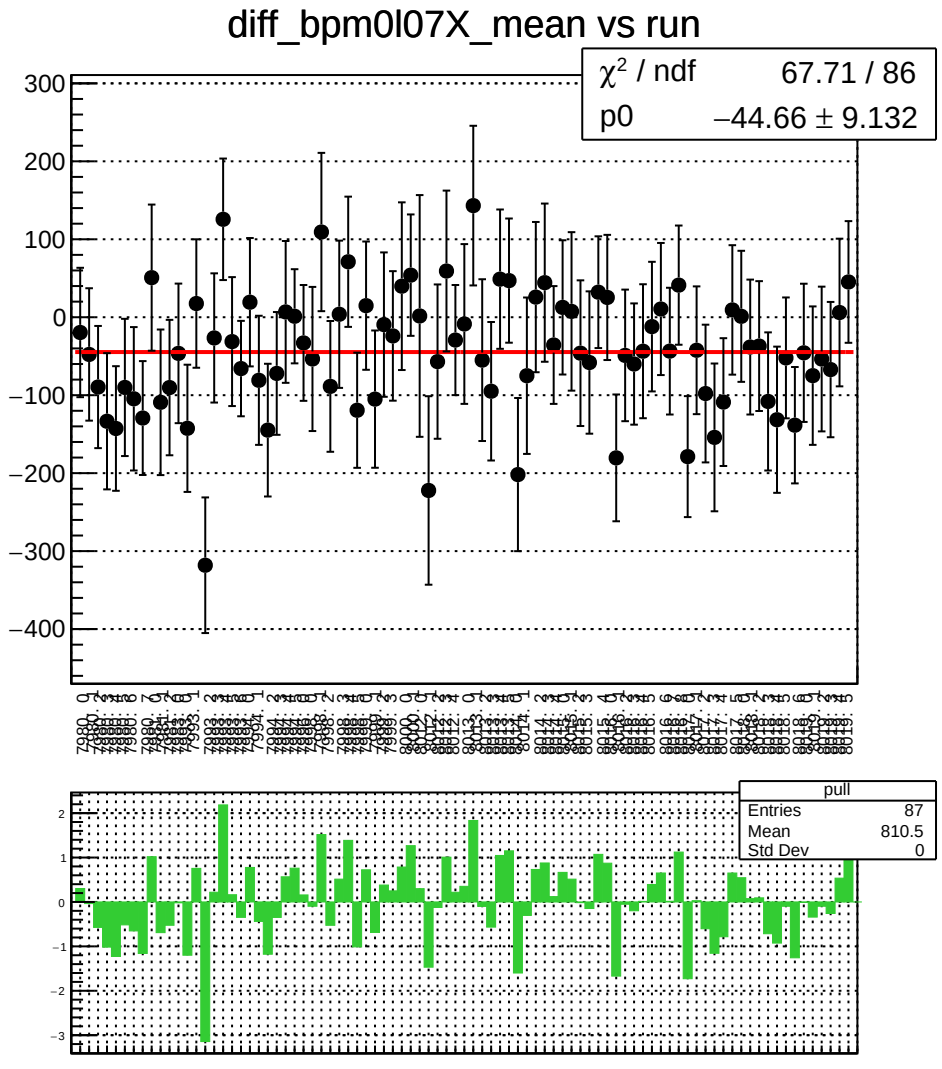

pull1D
Entries 87
Mean 0.008405
Std Dev 0.9118

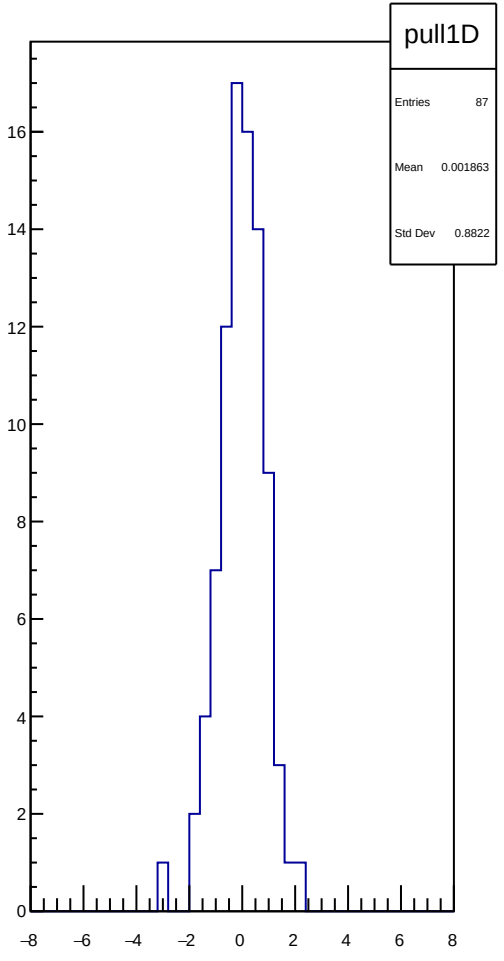

diff_bpm0l06X_rms vs run
χ² / ndf 1834 / 86
p0 1.816e+04 ± 13.69
20000
19500
19000
18500
18000
17500
17000
16500

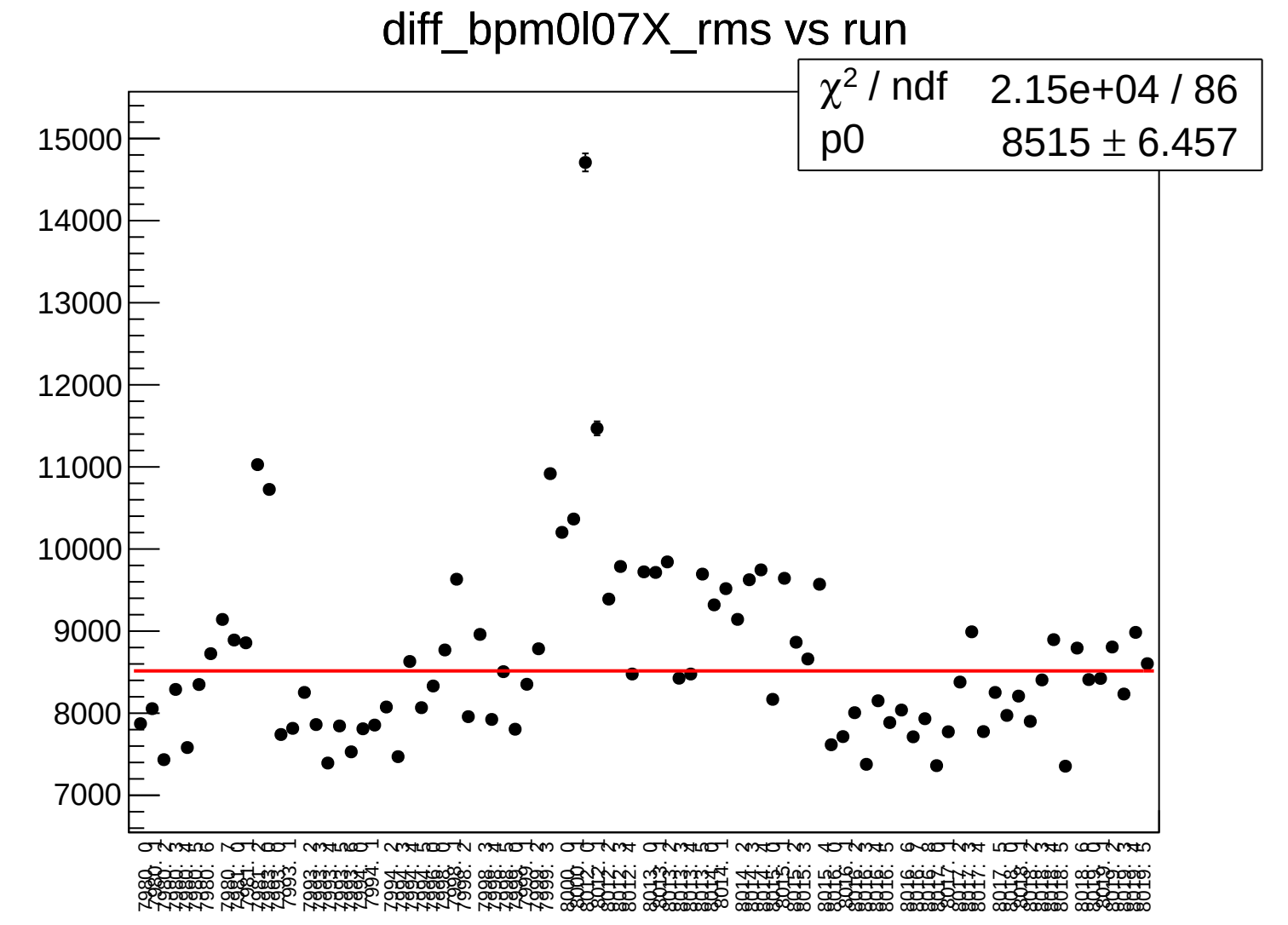

diff_bpm0l06Y_mean vs run
χ² / ndf 100.3 / 86
p0 −18.87 ± 36.86
1500
1000
500
0
−500
−1000
pull
Entries 87
Mean 15.16
Std Dev 0
3
2
1
0
−1
−2

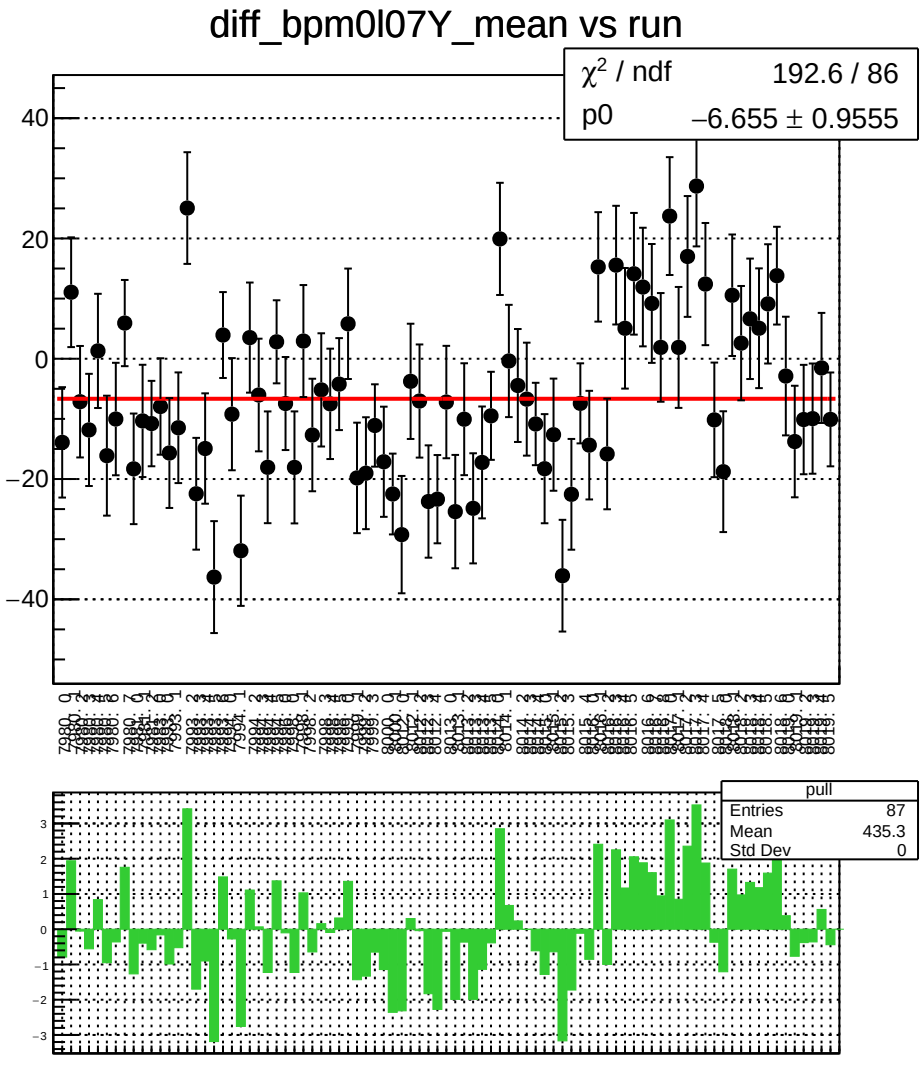

pull1D
Entries 87
Mean 0.02054
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

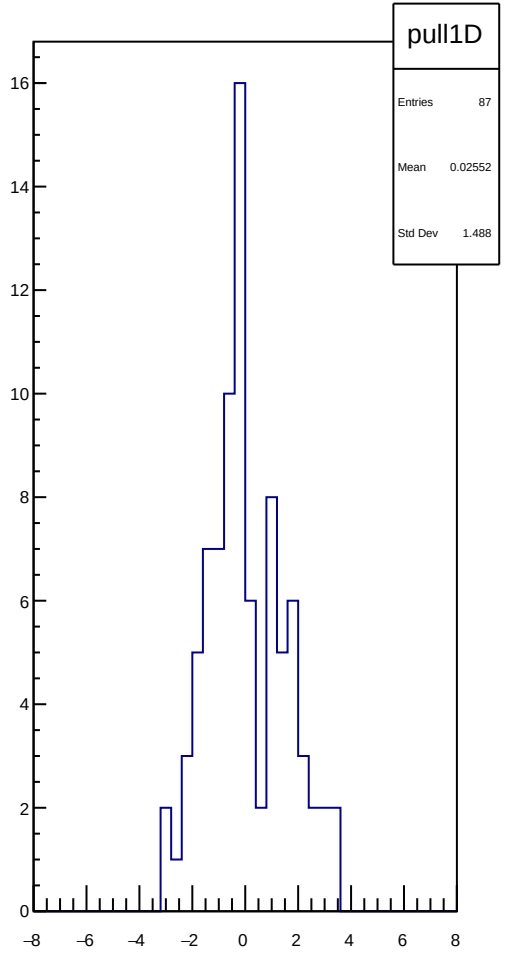

diff_bpm0l06Y_rms vs run
χ² / ndf 1.41e+04 / 86
p0 3.444e+04 ± 26.06
44000
42000
40000
38000
36000
34000
32000
30000
28000
26000

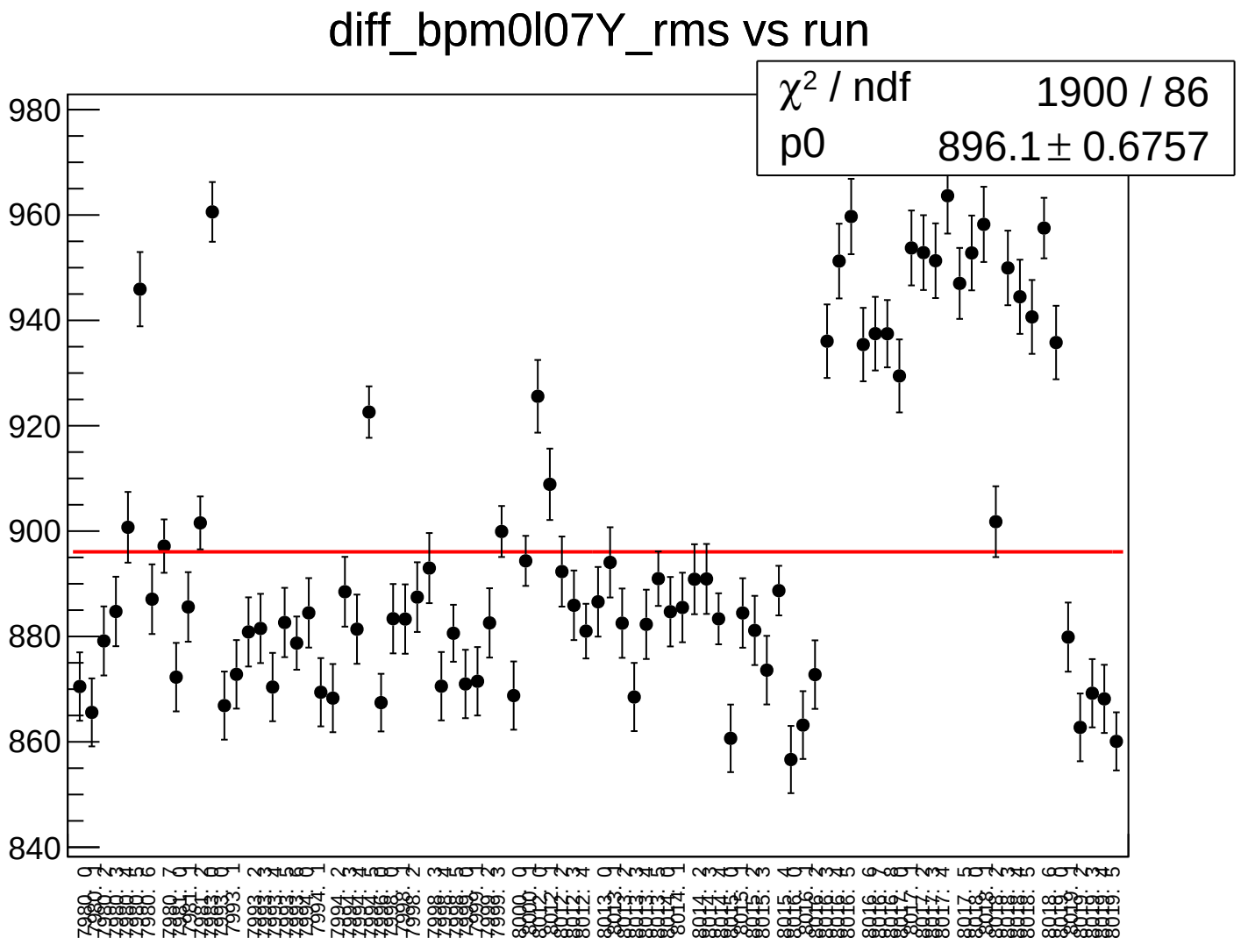

diff_bpm0l07X_mean vs run
χ² / ndf 67.71 / 86
p0 −44.66 ± 9.132
pull
Entries 87
Mean 810.5
Std Dev 0

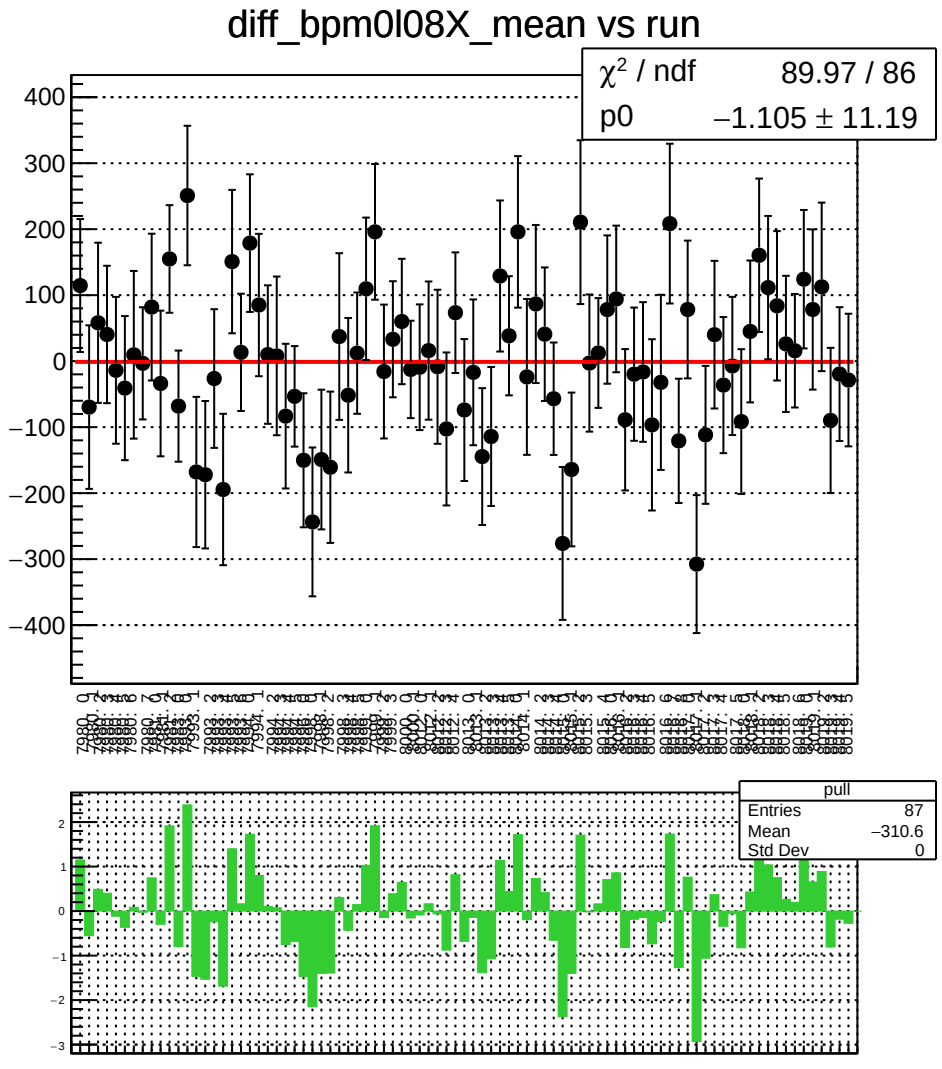

pull1D
Entries 87
Mean 0.001863
Std Dev 0.8822

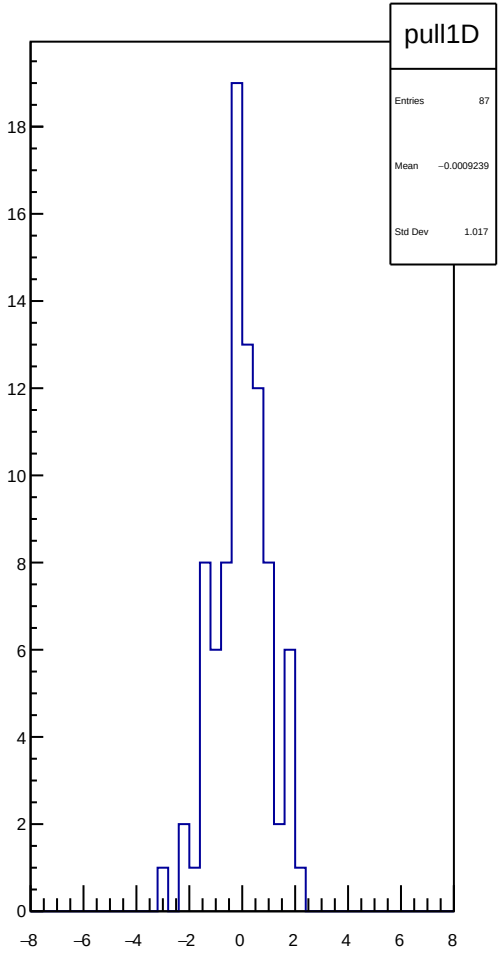

diff_bpm0l07X_rms vs run
χ² / ndf 2.15e+04 / 86
p0 8515 ± 6.457
15000
14000
13000
12000
11000
10000
9000
8000
7000

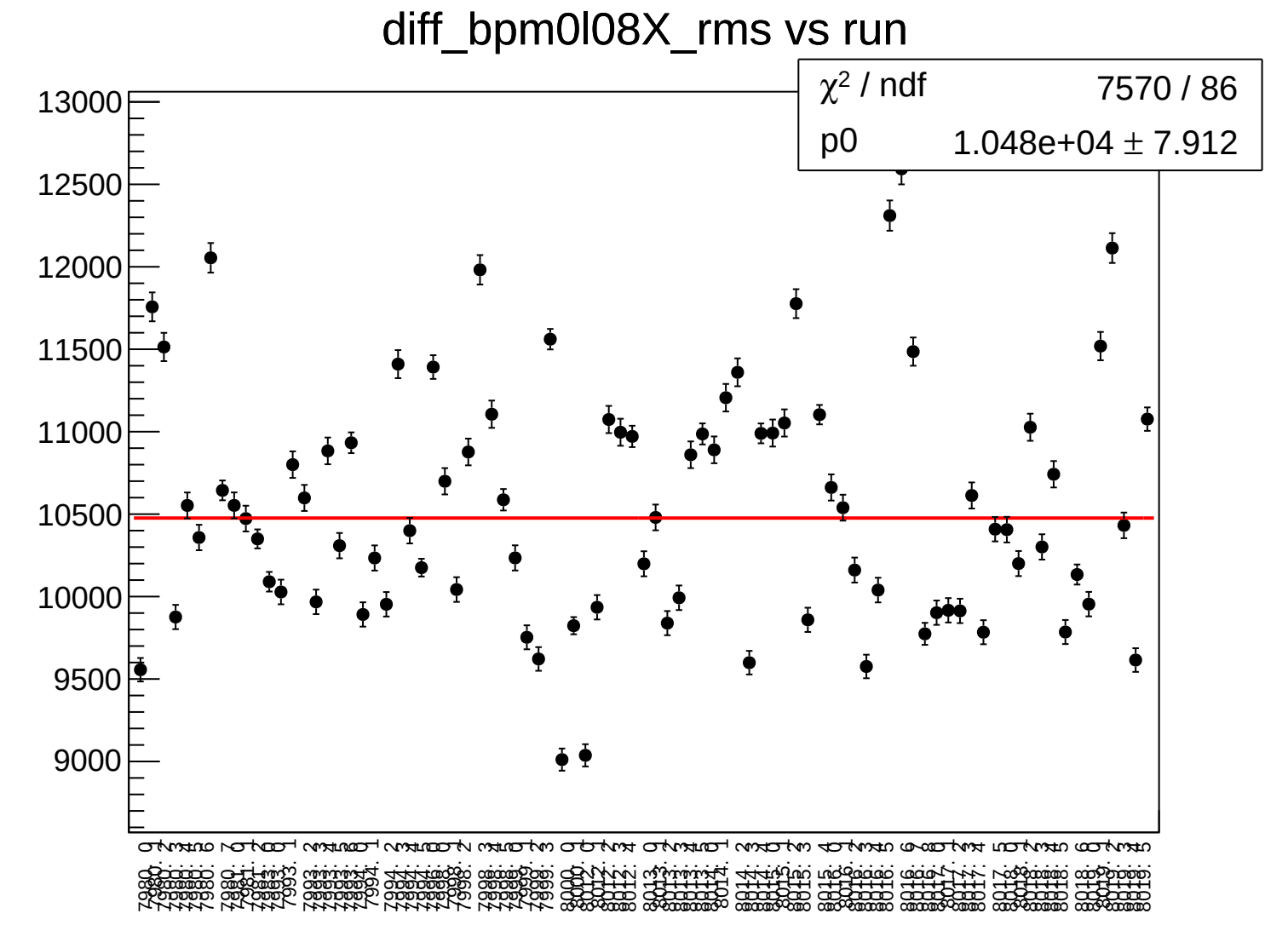

diff_bpm0l07Y_mean vs run
χ² / ndf 192.6 / 86
p0 −6.655 ± 0.9555
40
20
0
−20
−40
pull
Entries 87
Mean 435.3
Std Dev 0
3
2
1
0
−1
−2
−3

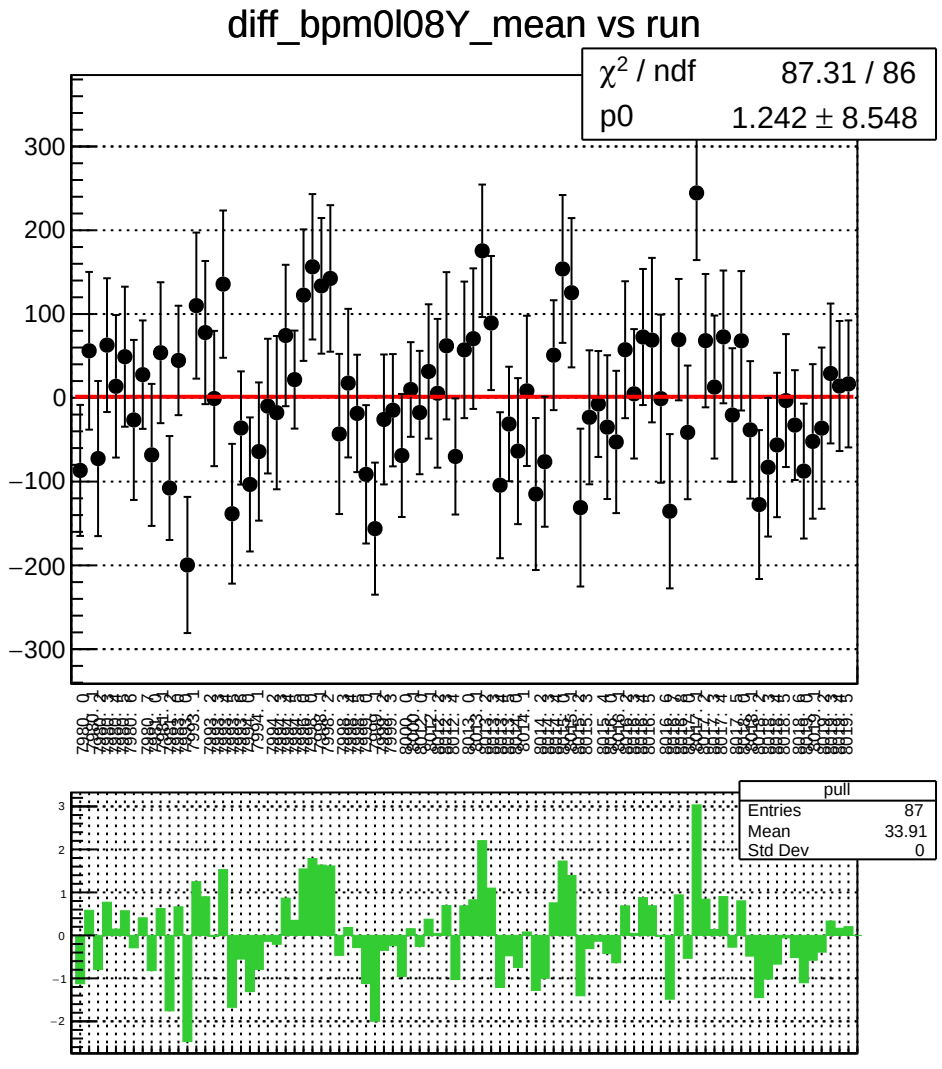

pull1D
Entries 87
Mean 0.02552
Std Dev 1.488
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

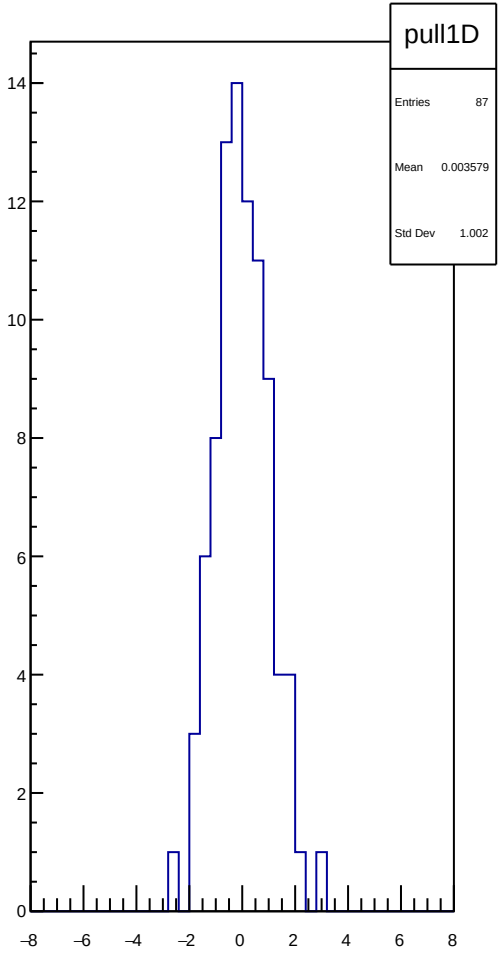

diff_bpm0l07Y_rms vs run
χ² / ndf 1900 / 86
p0 896.1 ± 0.6757
980
960
940
920
900
880
860
840

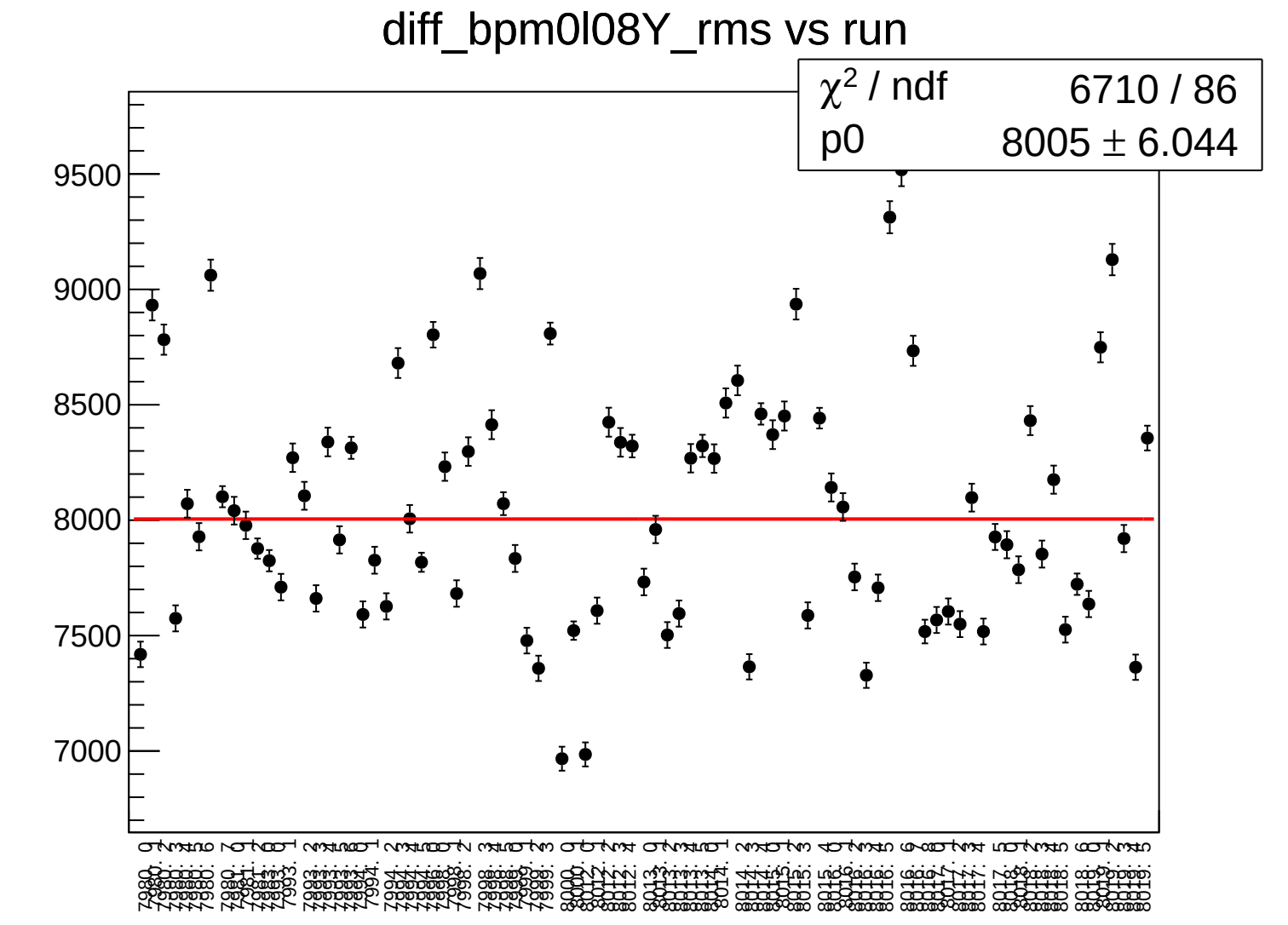

diff_bpm0l08X_mean vs run
χ² / ndf 89.97 / 86
p0 −1.105 ± 11.19
pull
Entries 87
Mean −310.6
Std Dev 0

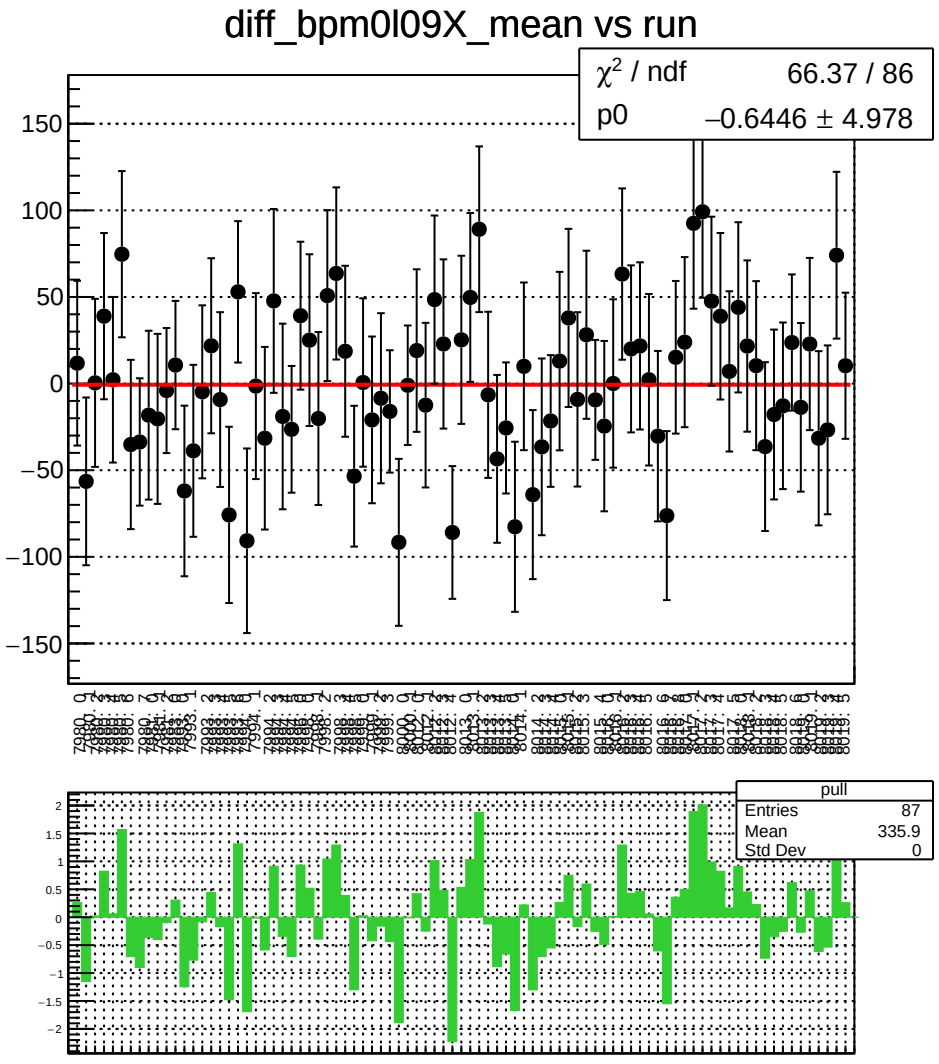

pull1D
Entries 87
Mean −0.0009239
Std Dev 1.017

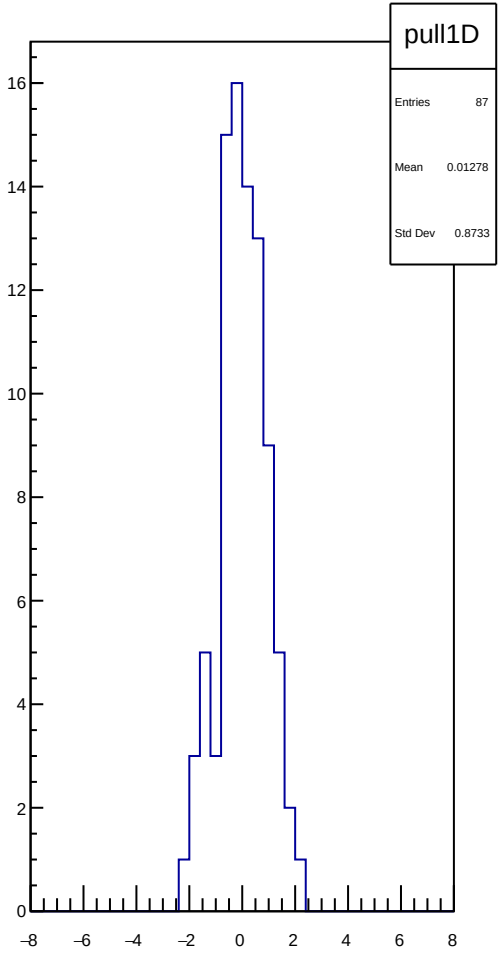

diff_bpm0l08X_rms vs run
χ² / ndf 7570 / 86
p0 1.048e+04 ± 7.912
13000
12500
12000
11500
11000
10500
10000
9500
9000

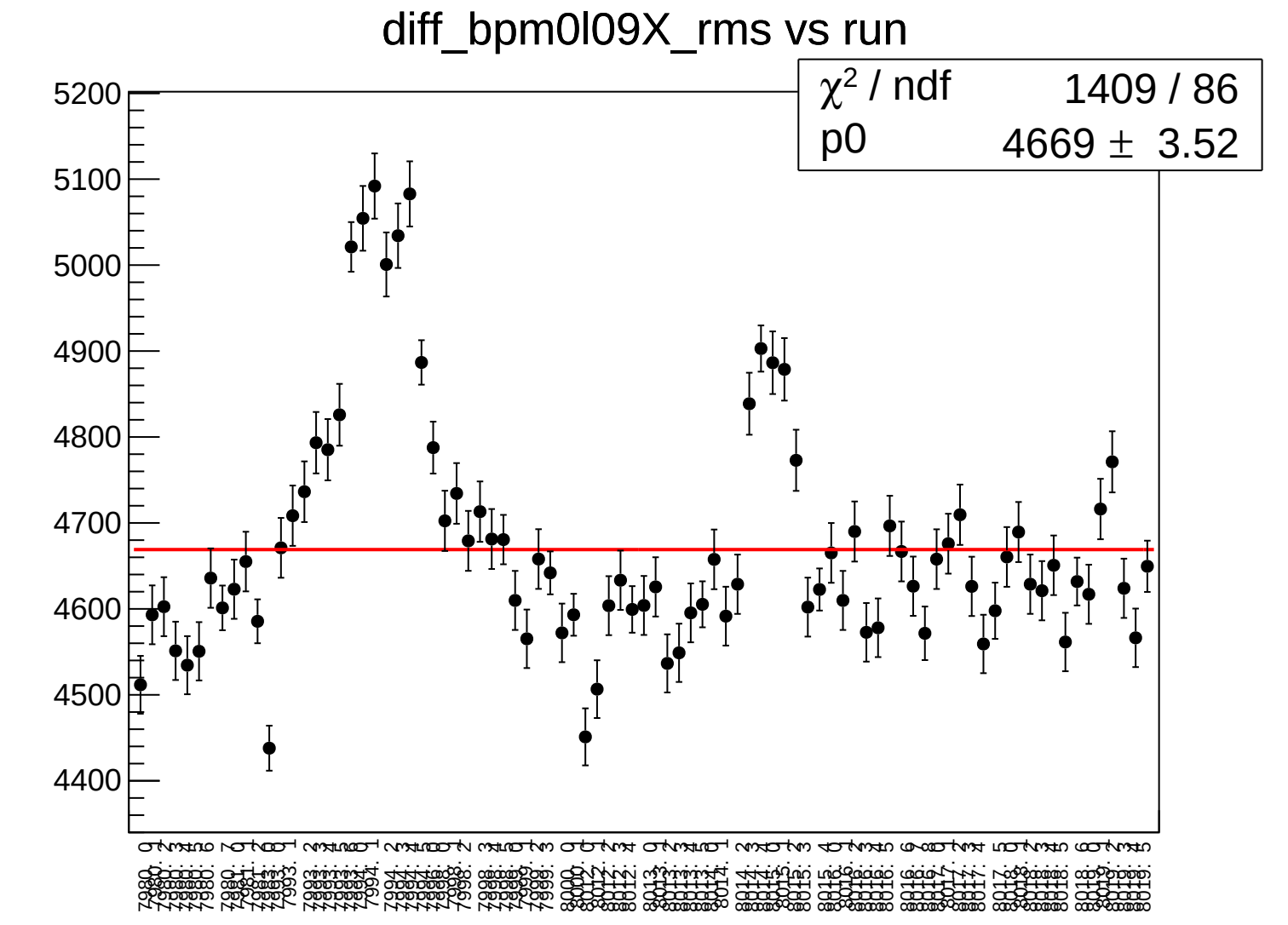

diff_bpm0l08Y_mean vs run
χ² / ndf 87.31 / 86
p0 1.242 ± 8.548
pull
Entries 87
Mean 33.91
Std Dev 0

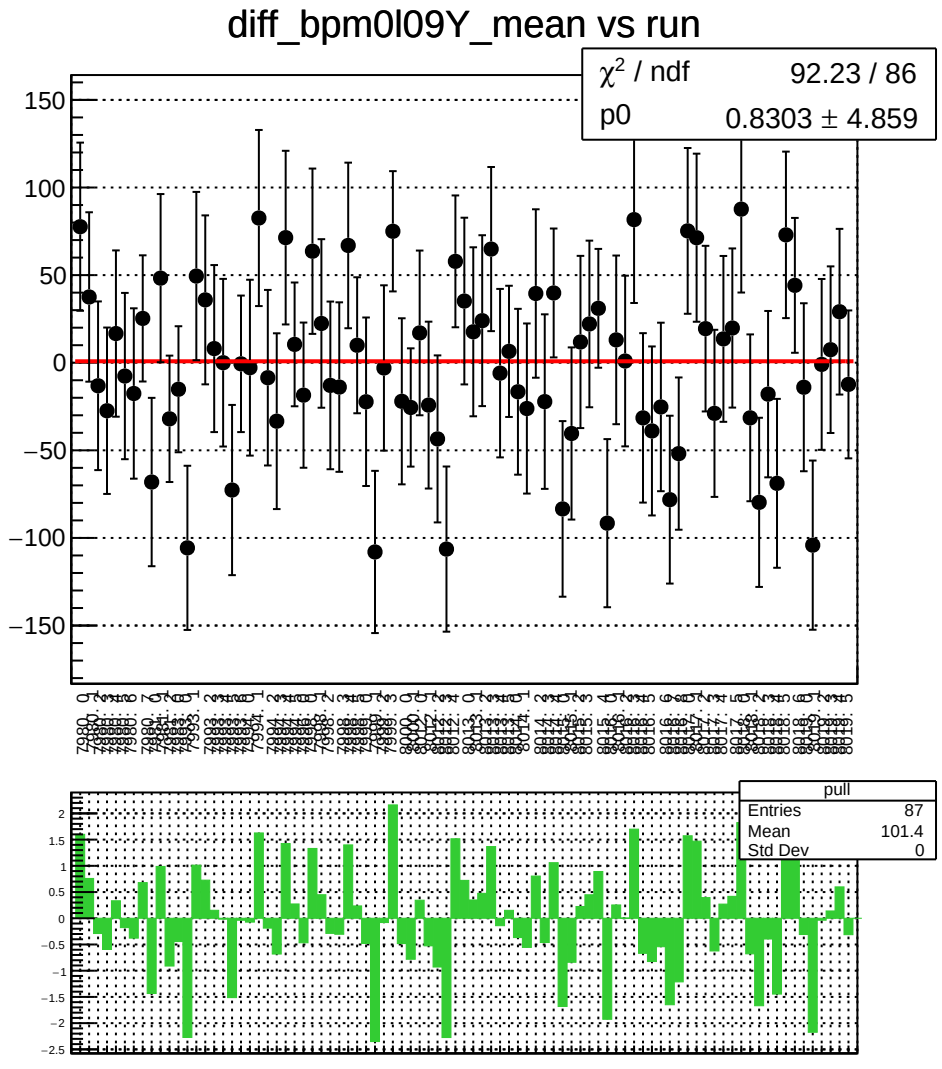

pull1D
Entries 87
Mean 0.003579
Std Dev 1.002

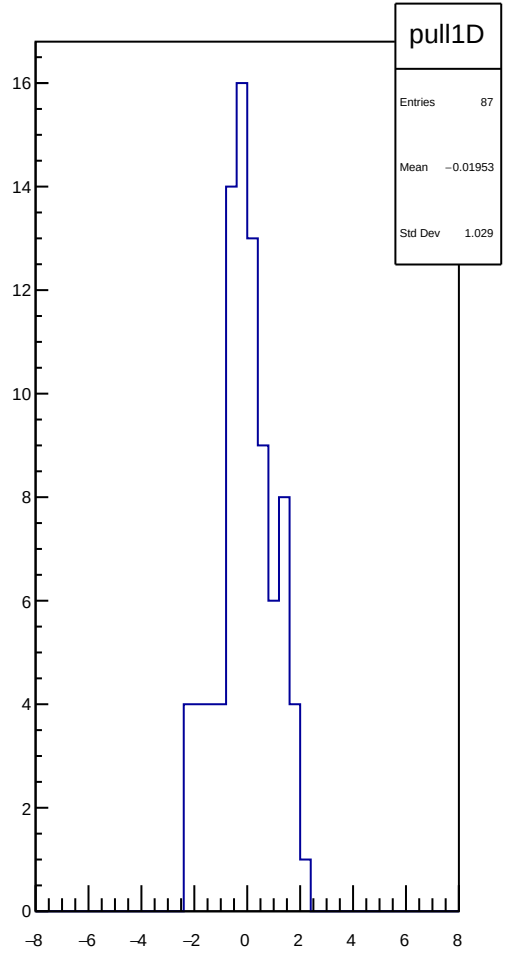

diff_bpm0l08Y_rms vs run
χ^2 / ndf 6710 / 86
p0 8005 ± 6.044
9500
9000
8500
8000
7500
7000

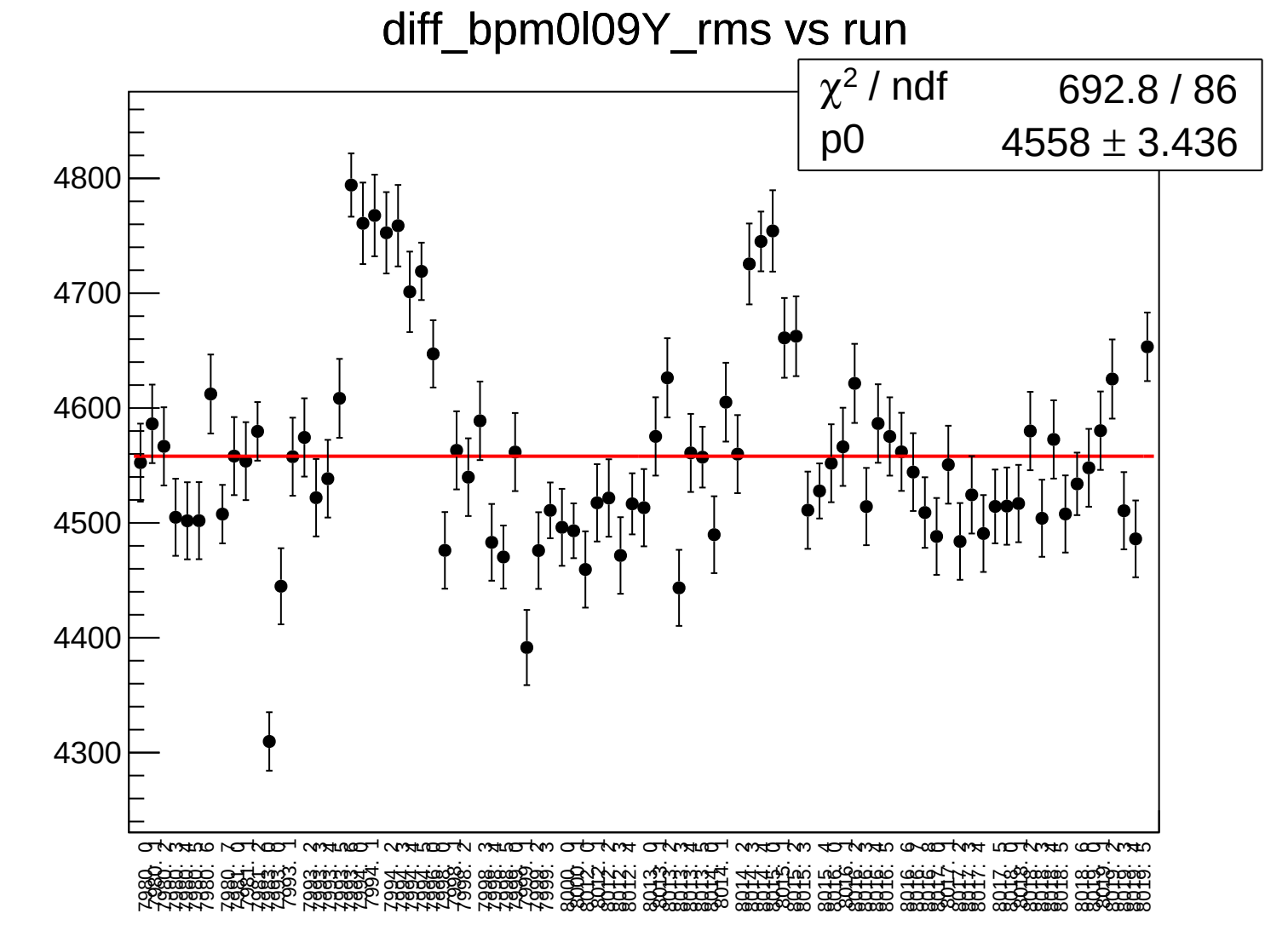

diff_bpm0l09X_mean vs run
χ² / ndf 66.37 / 86
p0 −0.6446 ± 4.978
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 335.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

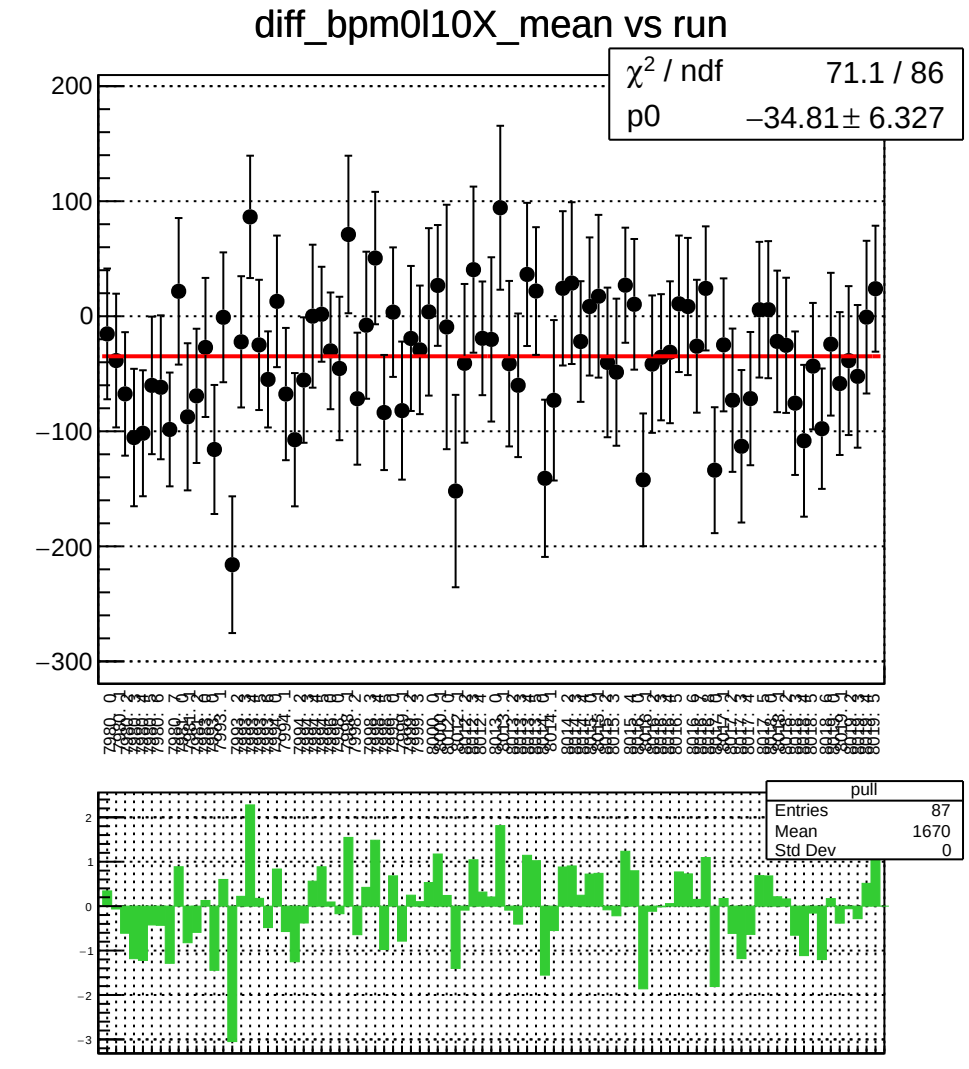

pull1D
Entries 87
Mean 0.01278
Std Dev 0.8733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

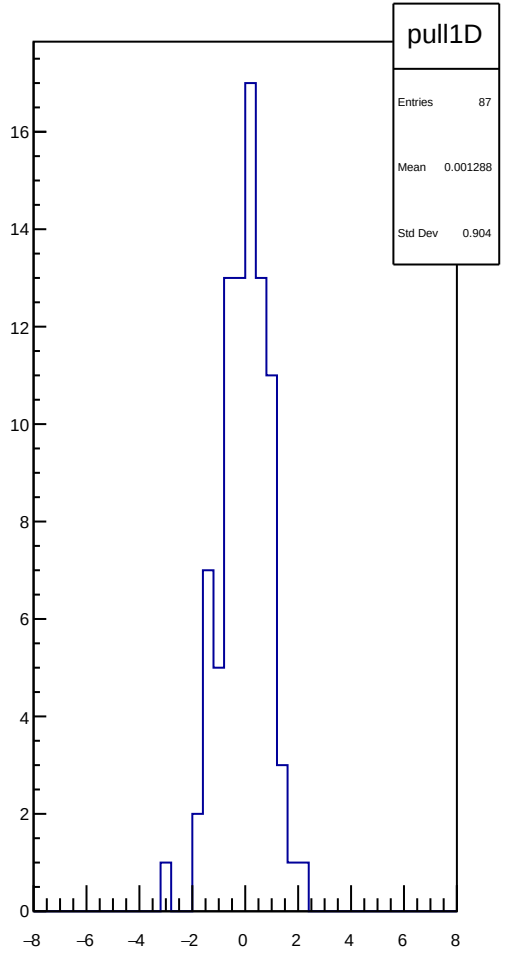

diff_bpm0l09X_rms vs run
χ² / ndf 1409 / 86
p0 4669 ± 3.52
5200
5100
5000
4900
4800
4700
4600
4500
4400

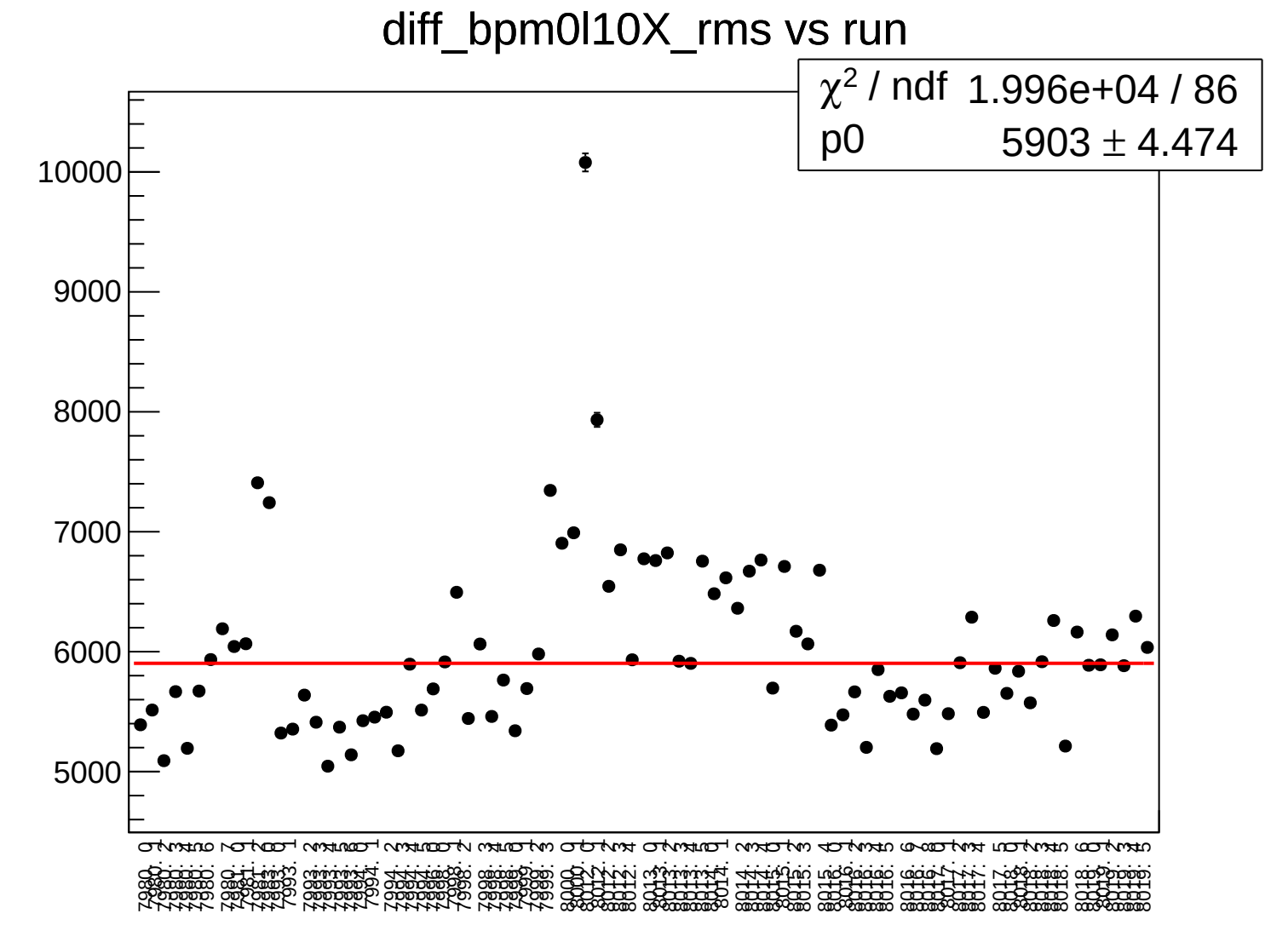

diff_bpm0l09Y_mean vs run
χ² / ndf 92.23 / 86
p0 0.8303 ± 4.859
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 101.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

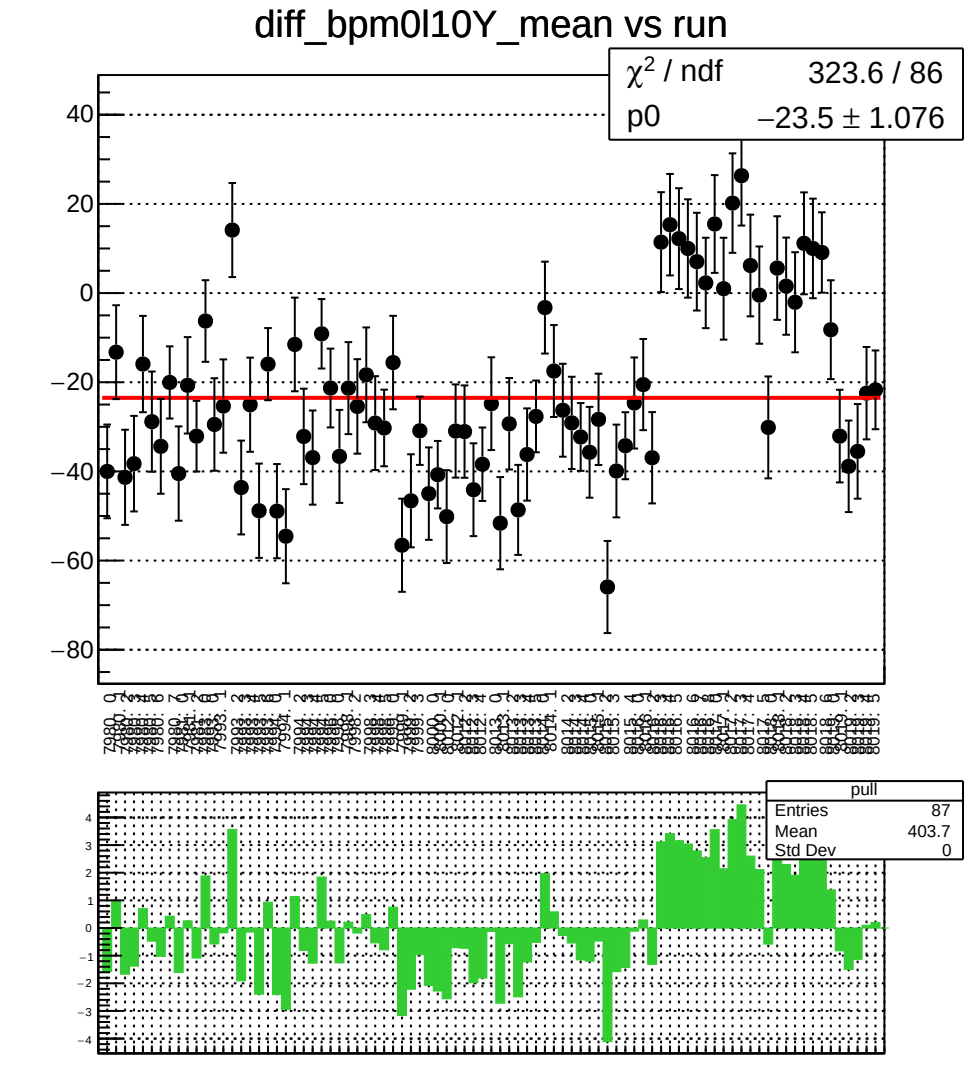

pull1D
Entries 87
Mean −0.01953
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

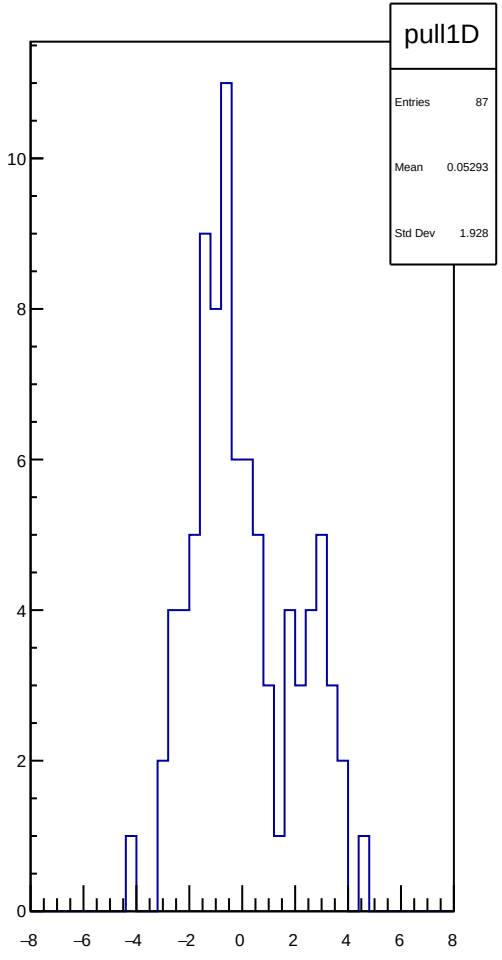

diff_bpm0l09Y_rms vs run
χ² / ndf 692.8 / 86
p0 4558 ± 3.436
4800
4700
4600
4500
4400
4300

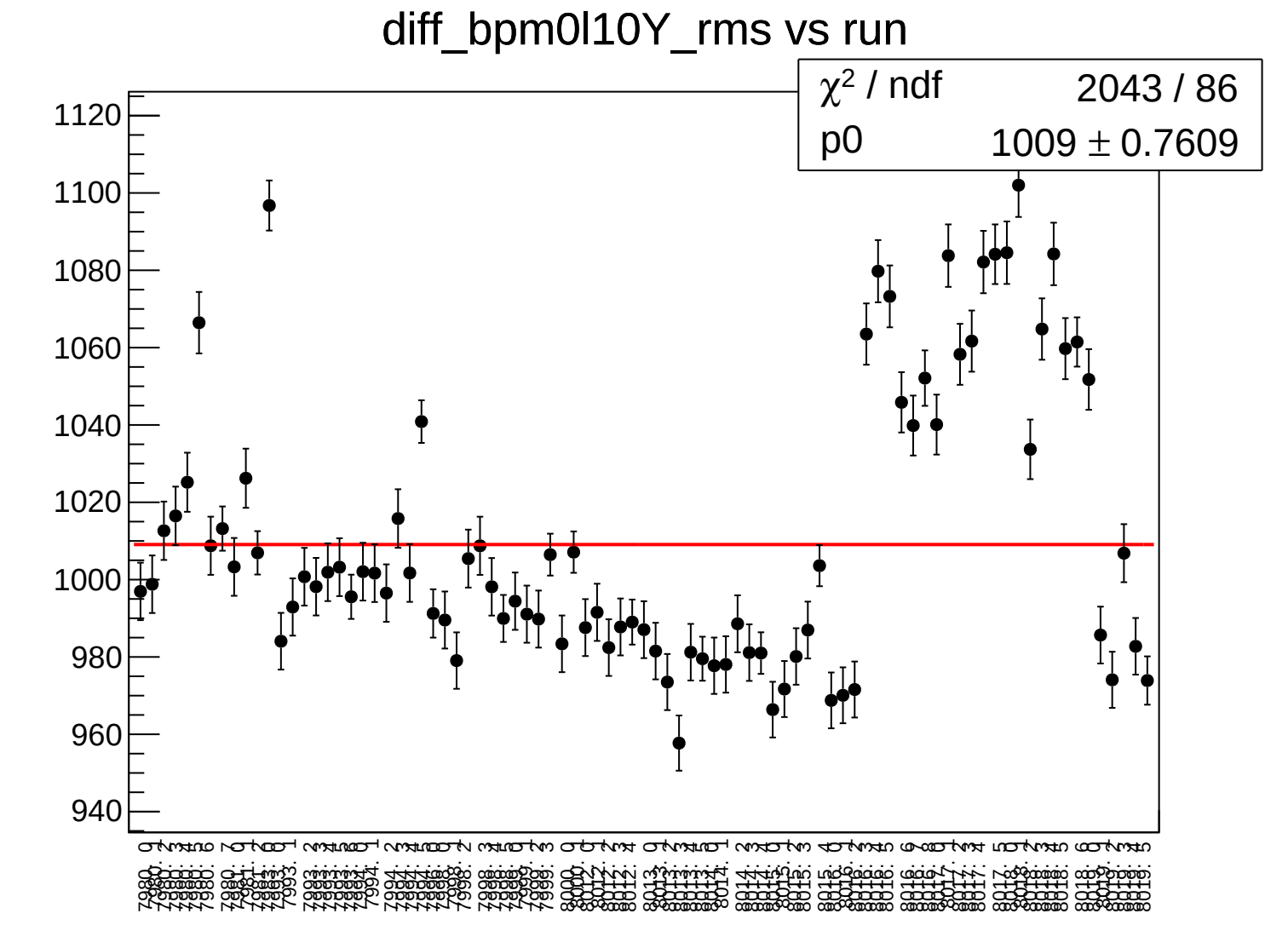

diff_bpm0l10X_mean vs run
χ² / ndf 71.1 / 86
p0 −34.81 ± 6.327
pull
Entries 87
Mean 1670
Std Dev 0

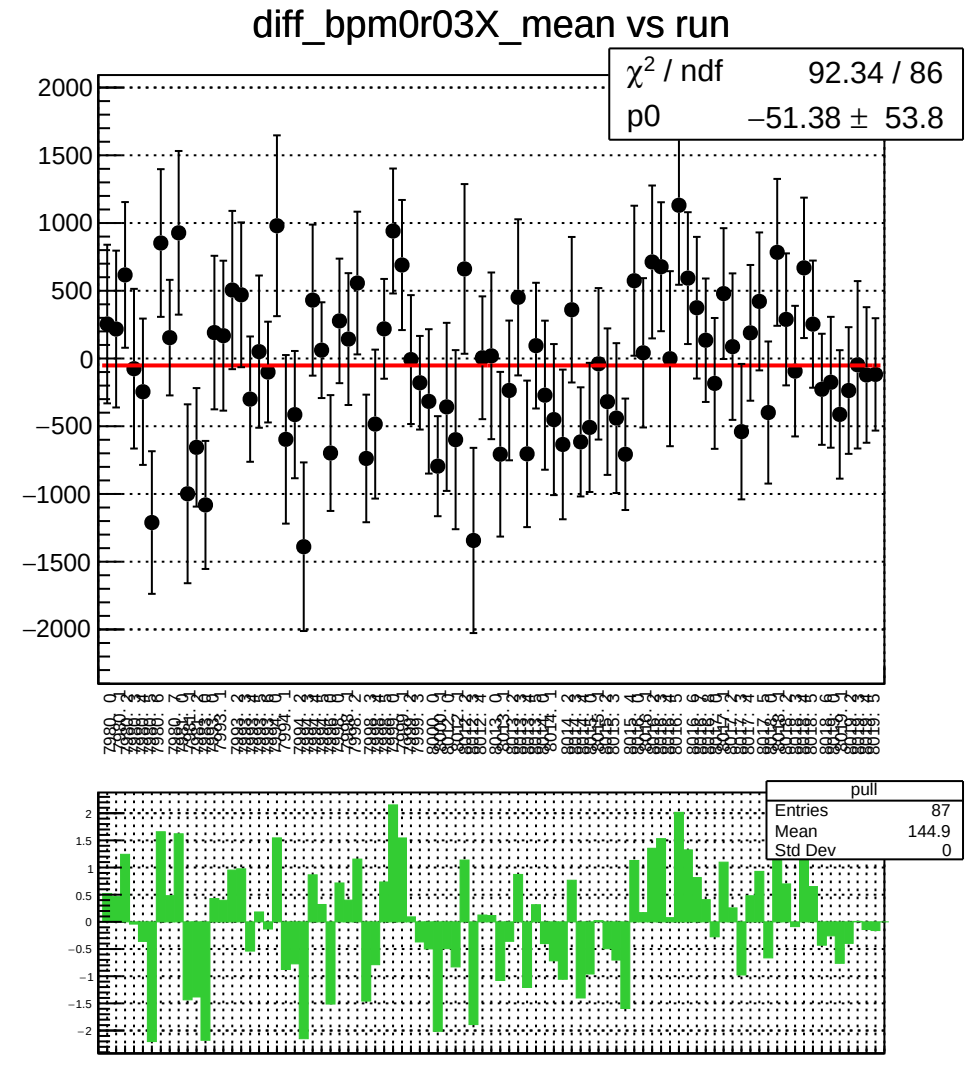

pull1D
Entries 87
Mean 0.001288
Std Dev 0.904

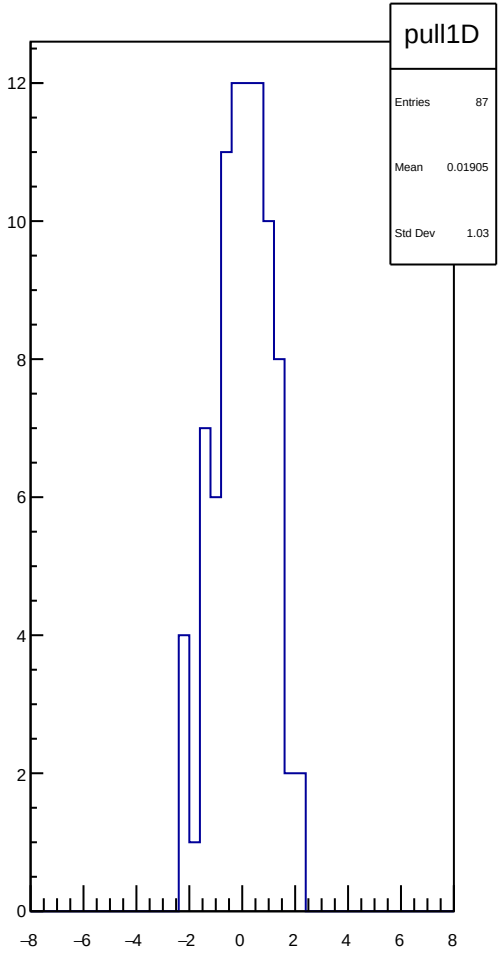

diff_bpm0l10X_rms vs run
χ^2 / ndf 1.996e+04 / 86
p0 5903 ± 4.474
10000
9000
8000
7000
6000
5000

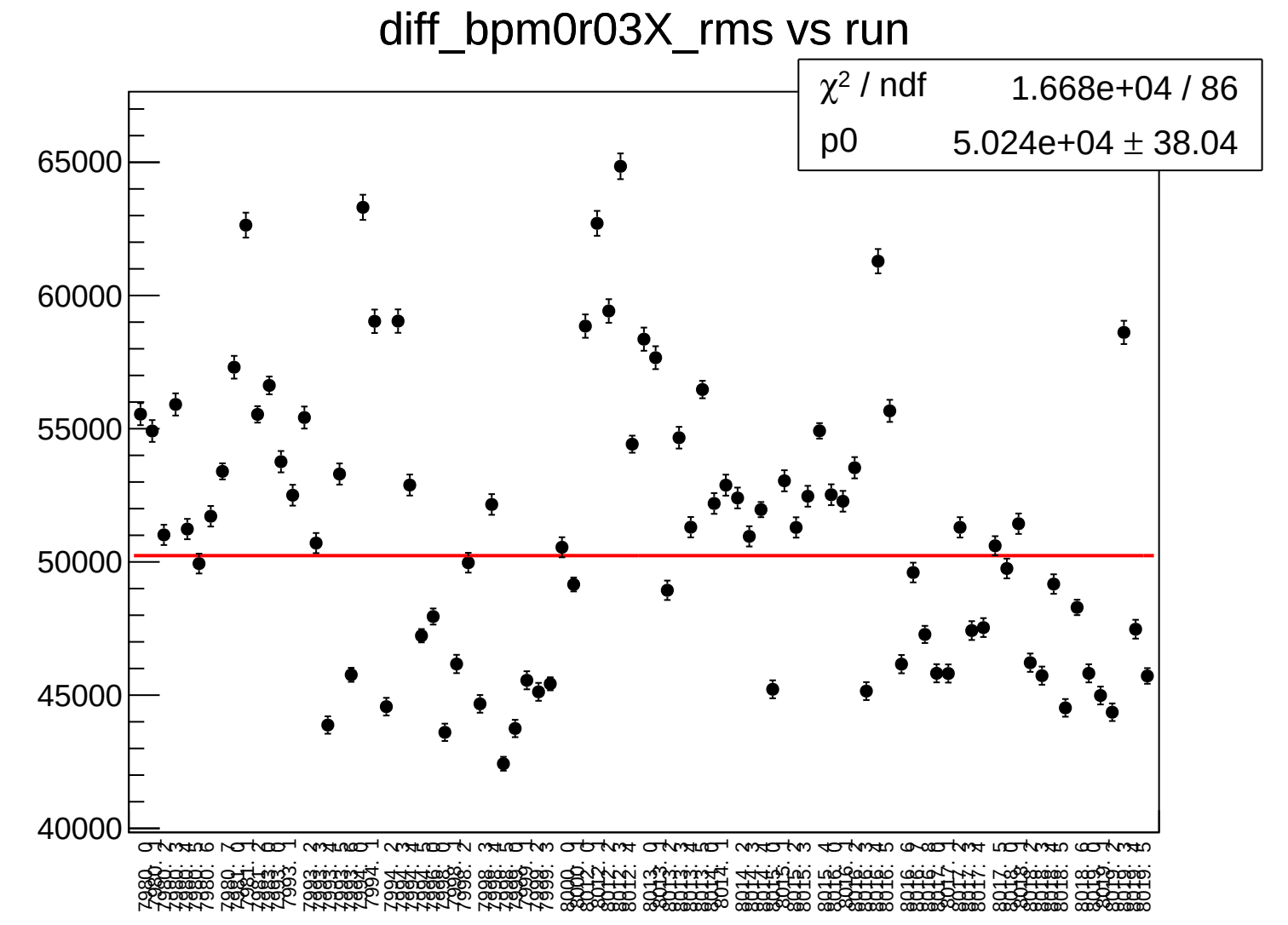

diff_bpm0l10Y_mean vs run
χ² / ndf 323.6 / 86
p0 −23.5 ± 1.076
pull
Entries 87
Mean 403.7
Std Dev 0

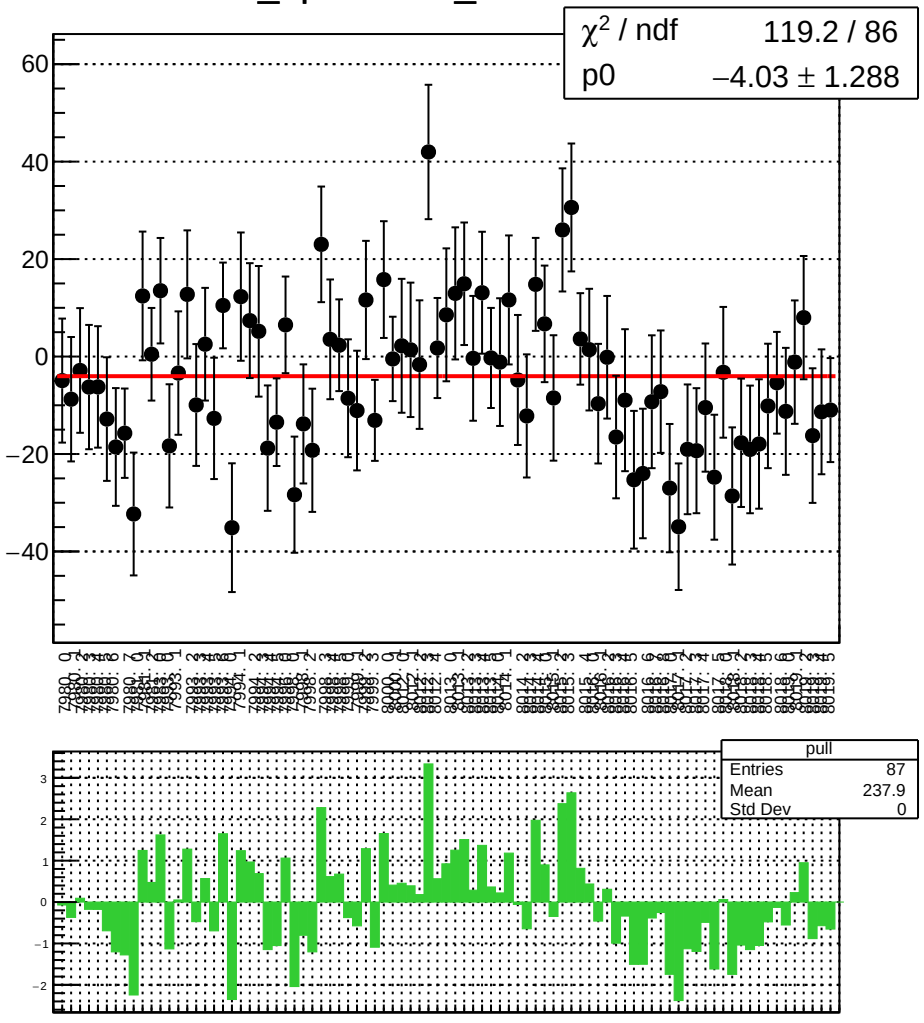

pull1D
Entries 87
Mean 0.05293
Std Dev 1.928

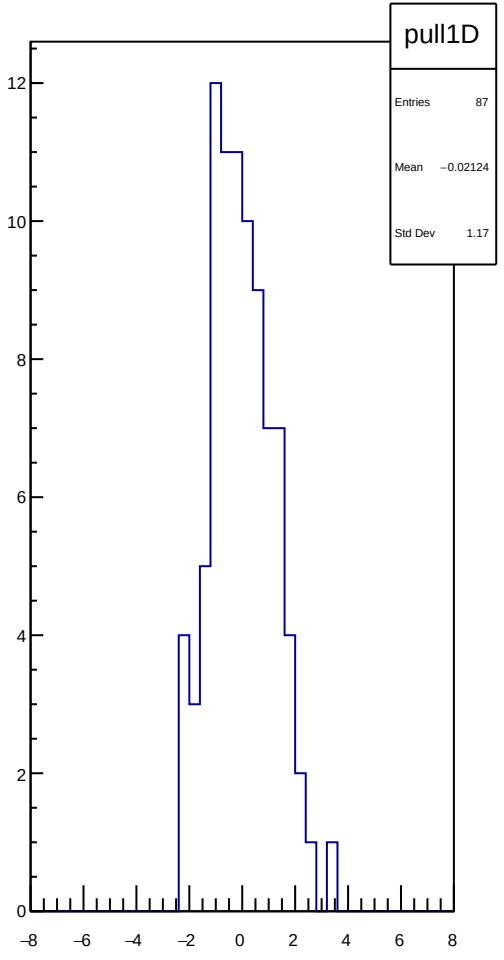

diff_bpm0l10Y_rms vs run
χ² / ndf 2043 / 86
p0 1009 ± 0.7609
1120
1100
1080
1060
1040
1020
1000
980
960
940

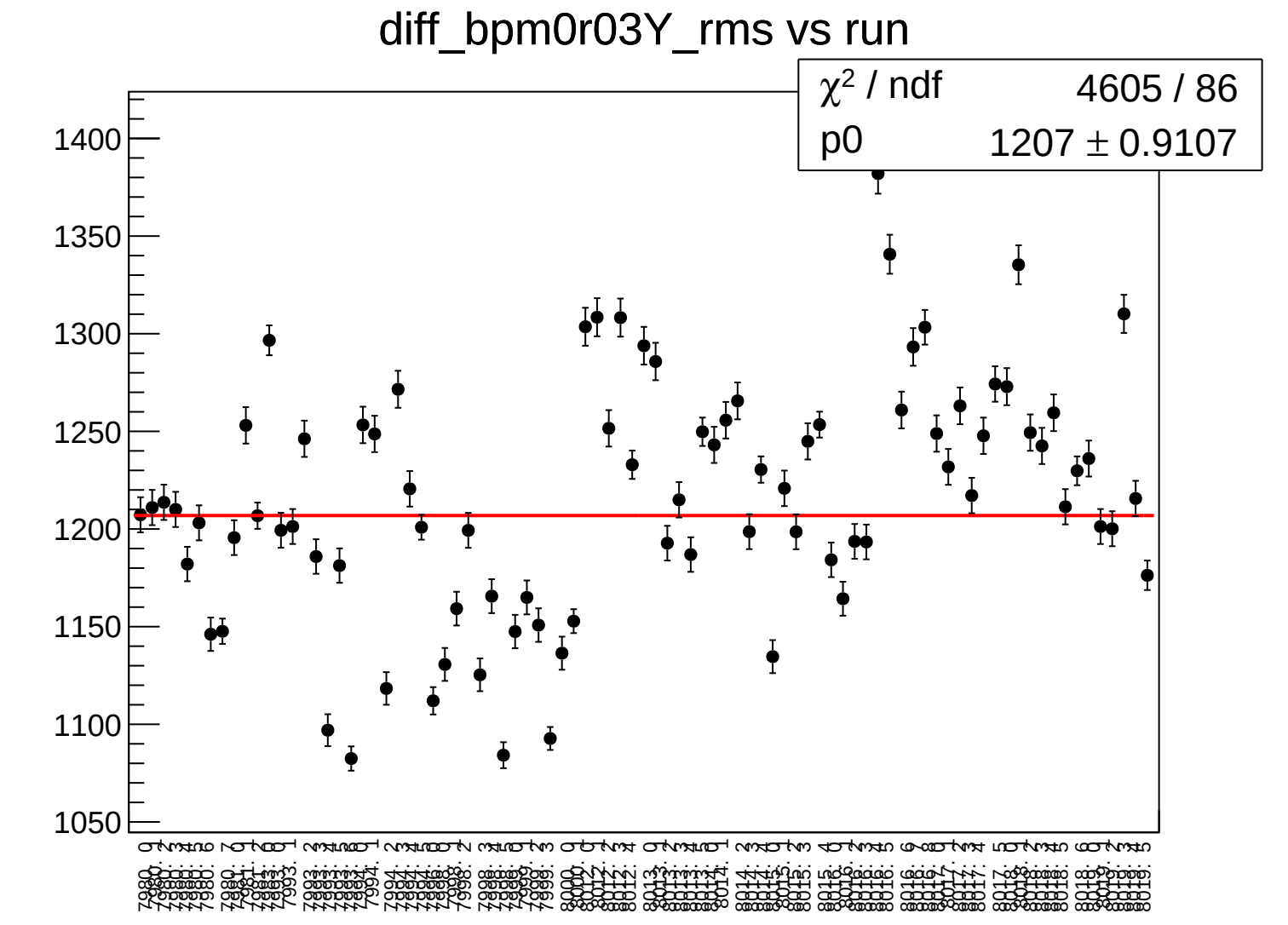

diff_bpm0r03X_mean vs run
χ² / ndf 92.34 / 86
p0 −51.38 ± 53.8
pull
Entries 87
Mean 144.9
Std Dev 0

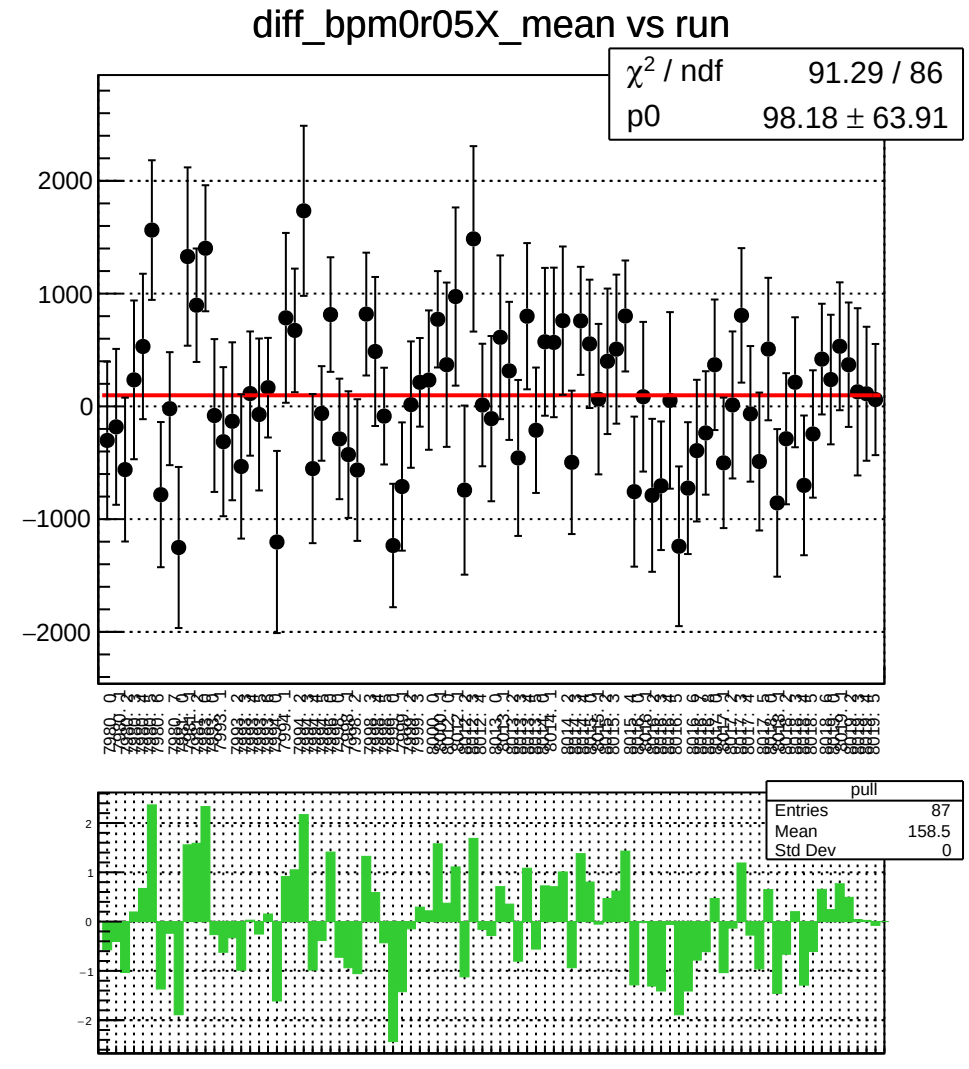

pull1D
Entries 87
Mean 0.01905
Std Dev 1.03

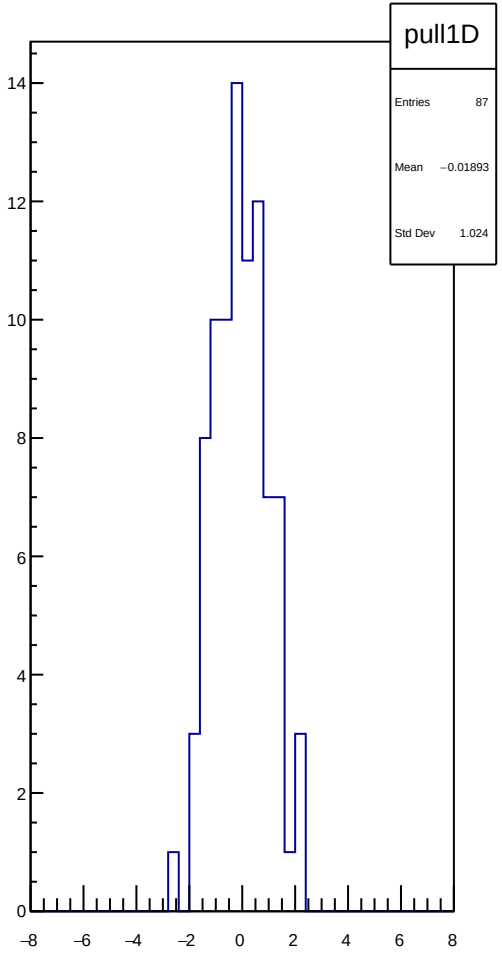

diff_bpm0r03X_rms vs run
χ² / ndf 1.668e+04 / 86
p0 5.024e+04 ± 38.04
65000
60000
55000
50000
45000
40000

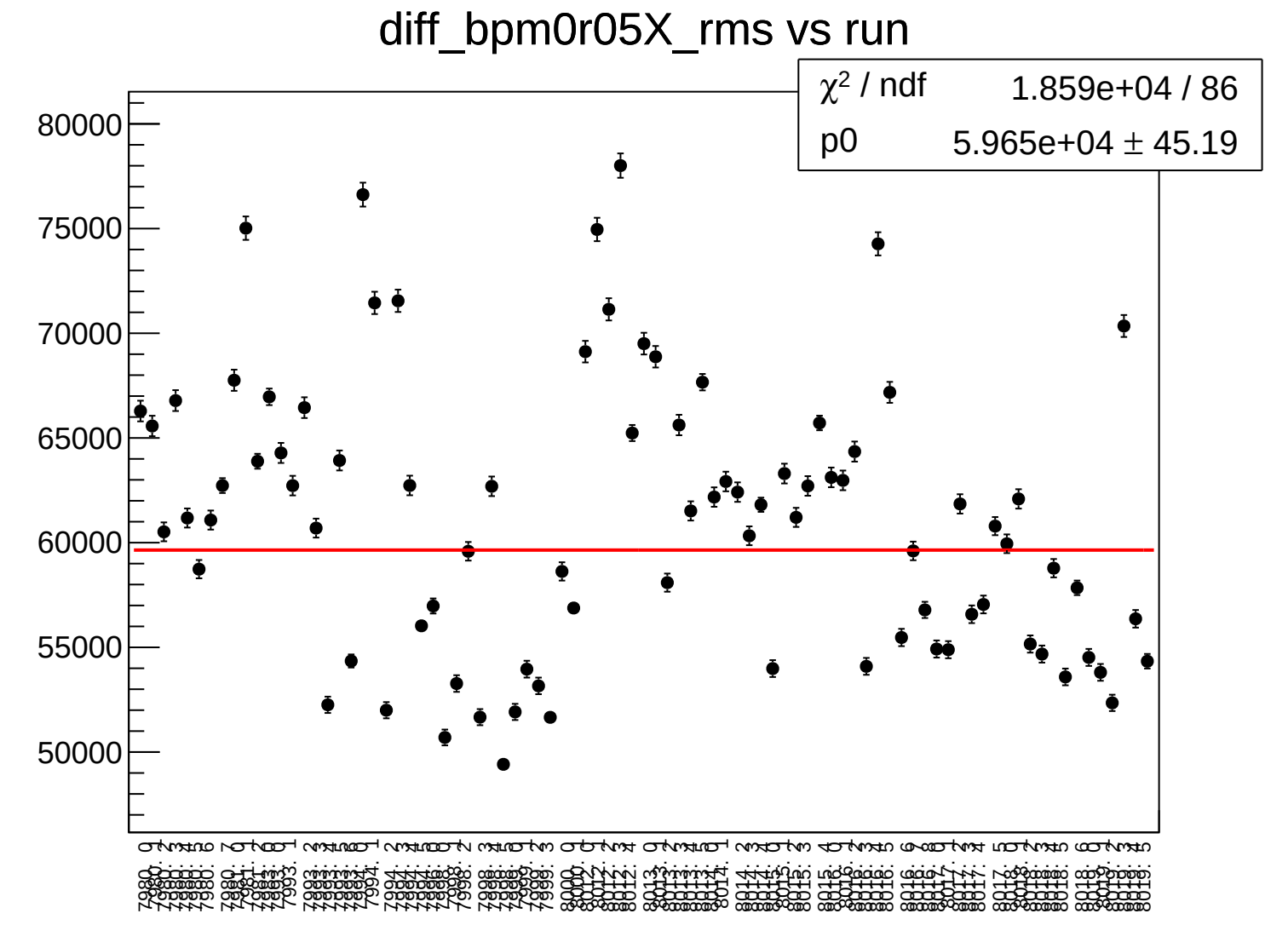

diff_bpm0r03Y_mean vs run
χ² / ndf 119.2 / 86
p0 −4.03 ± 1.288
pull
Entries 87
Mean 237.9
Std Dev 0

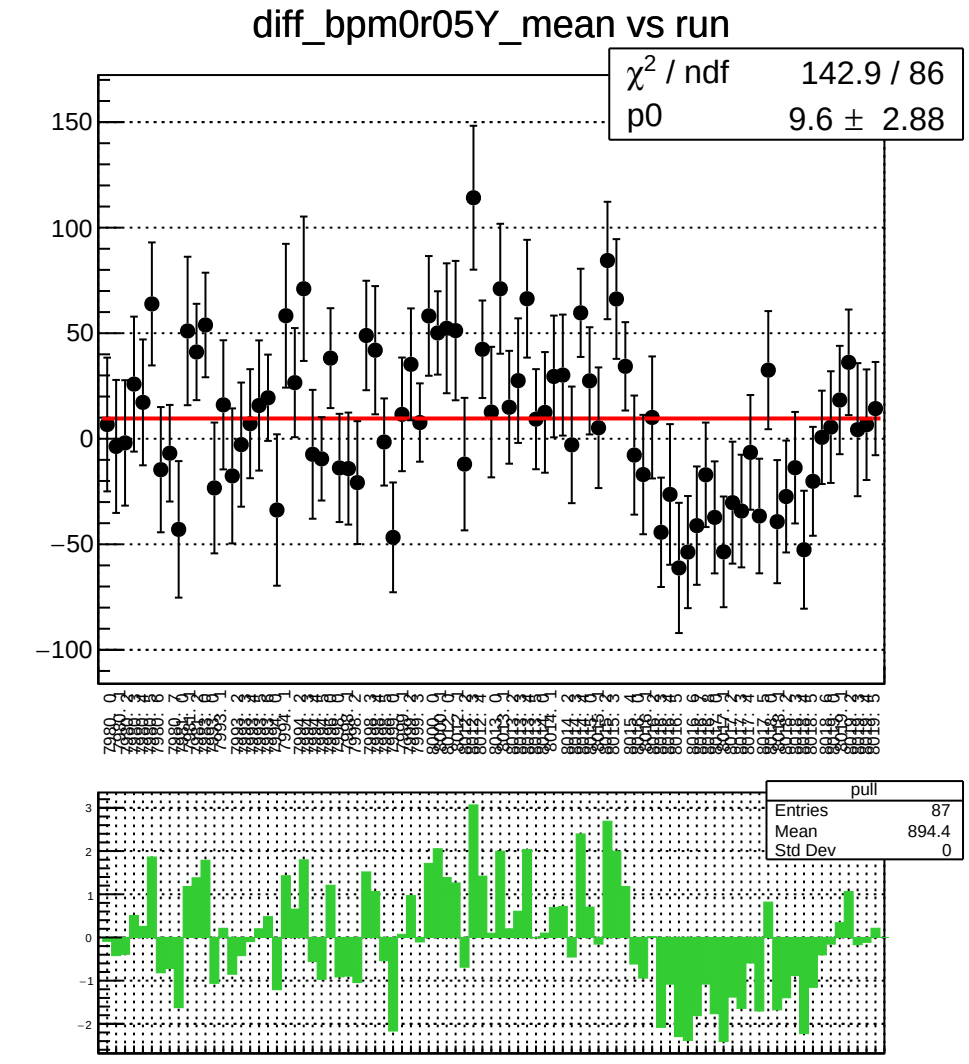

pull1D
Entries 87
Mean −0.02124
Std Dev 1.17

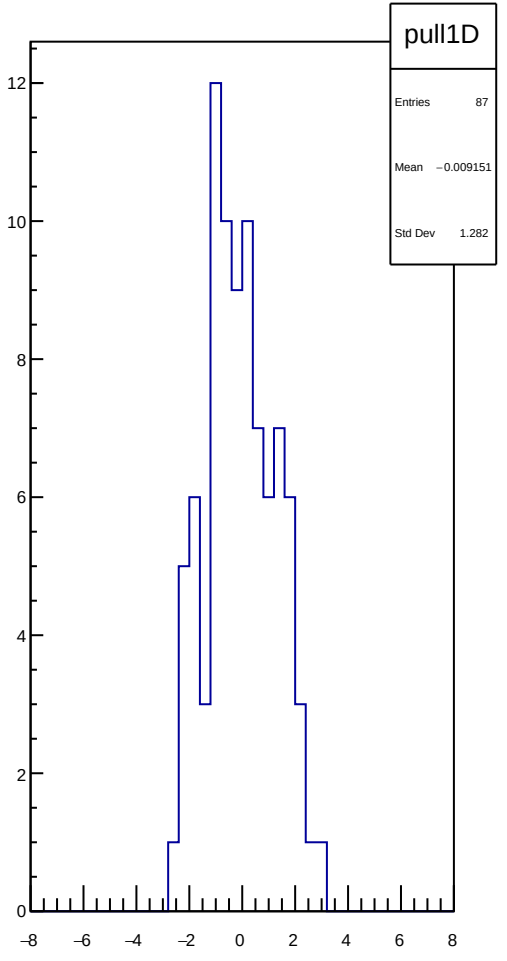

diff_bpm0r03Y_rms vs run
χ² / ndf 4605 / 86
p0 1207 ± 0.9107
1400
1350
1300
1250
1200
1150
1100
1050

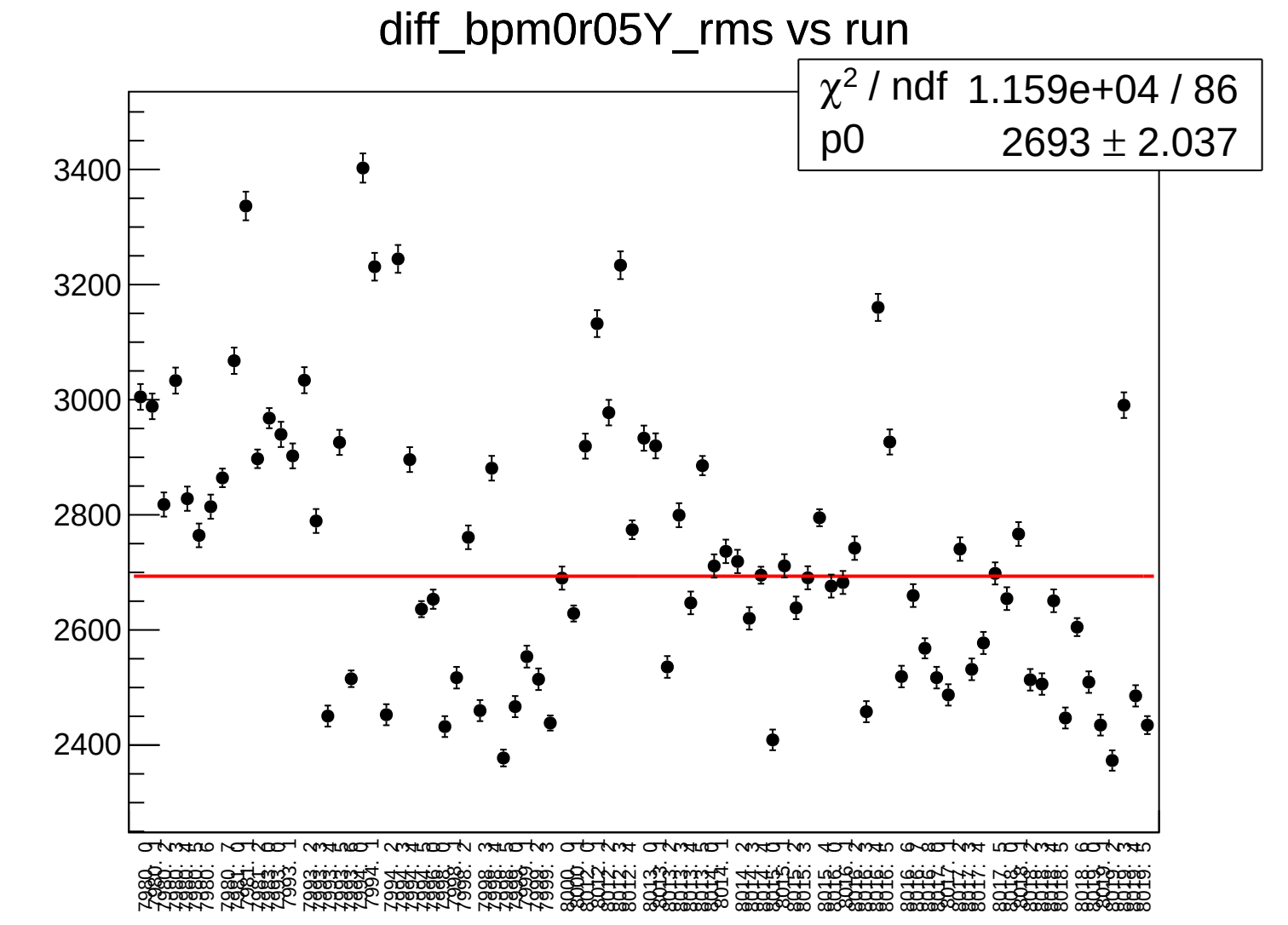

diff_bpm0r05X_mean vs run
χ^2 / ndf 91.29 / 86
p0 98.18 ± 63.91
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 158.5
Std Dev 0
2
1
0
−1
−2

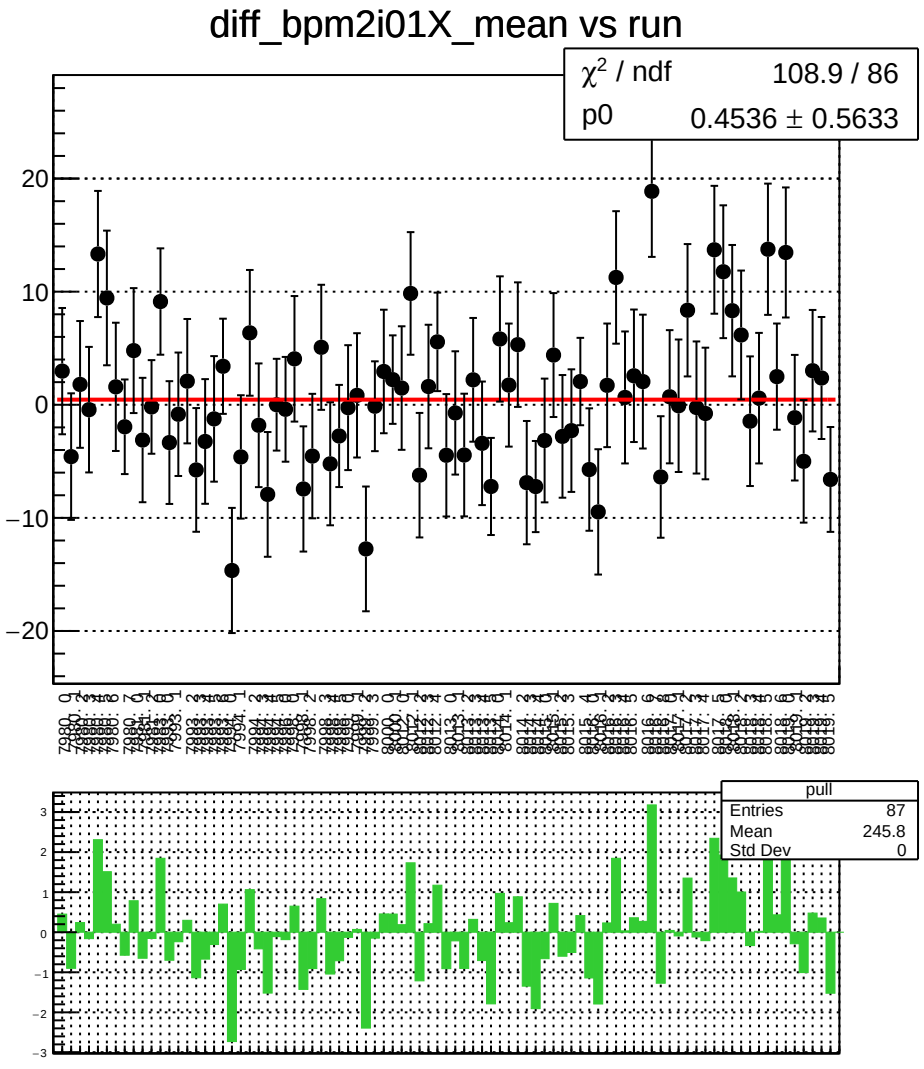

pull1D
Entries 87
Mean −0.01893
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

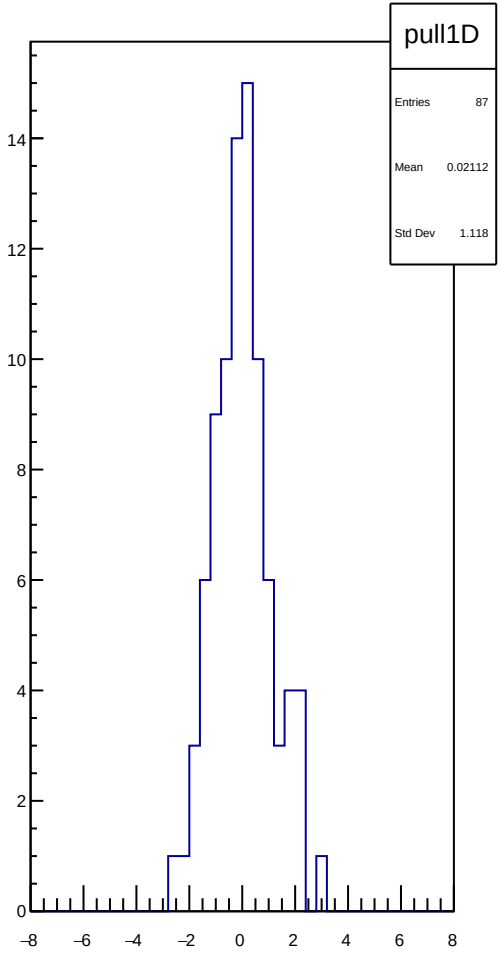

diff_bpm0r05X_rms vs run
χ² / ndf 1.859e+04 / 86
p0 5.965e+04 ± 45.19
80000
75000
70000
65000
60000
55000
50000

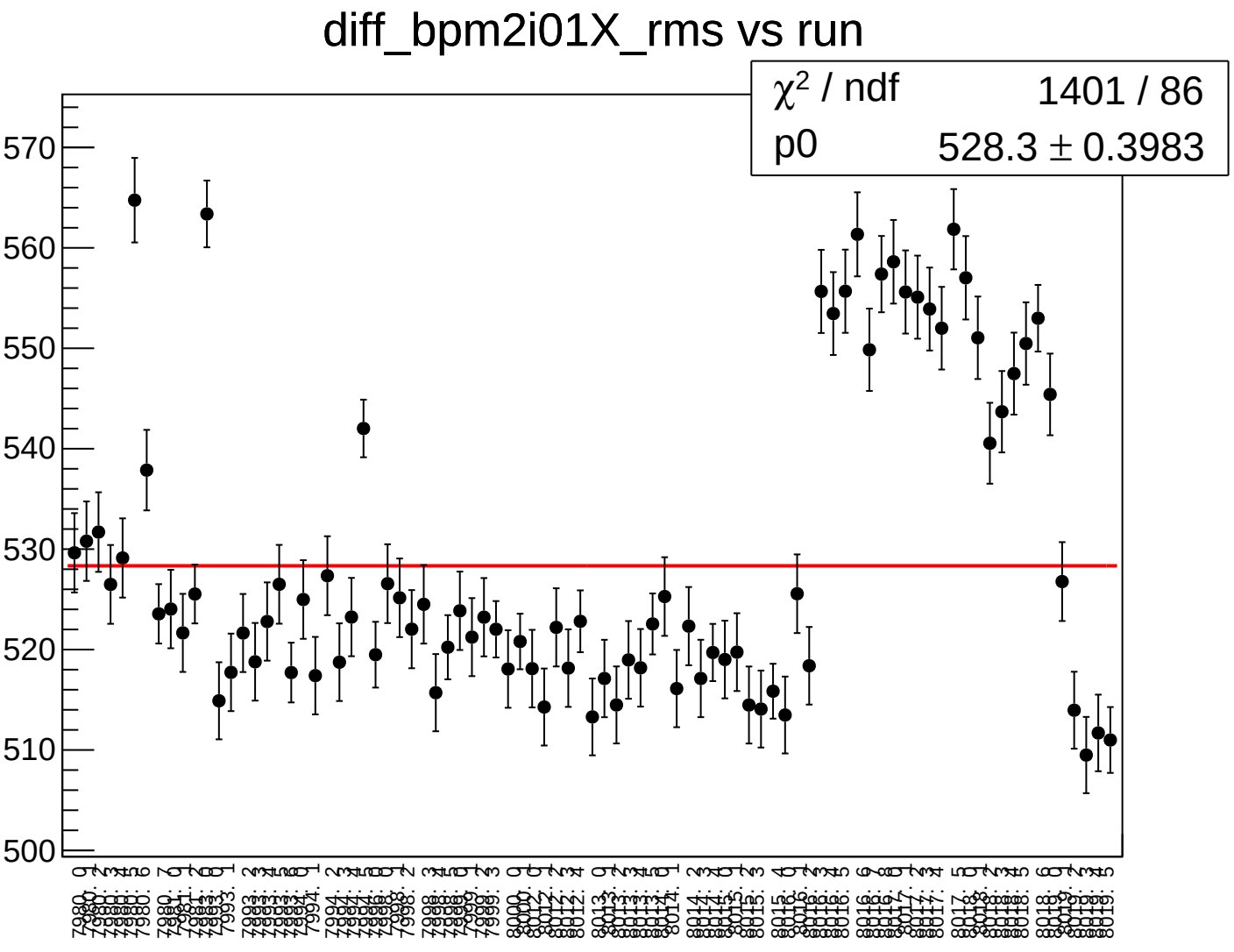

diff_bpm0r05Y_mean vs run
χ² / ndf 142.9 / 86
p0 9.6 ± 2.88
150
100
50
0
−50
−100
pull
Entries 87
Mean 894.4
Std Dev 0
3
2
1
0
−1
−2

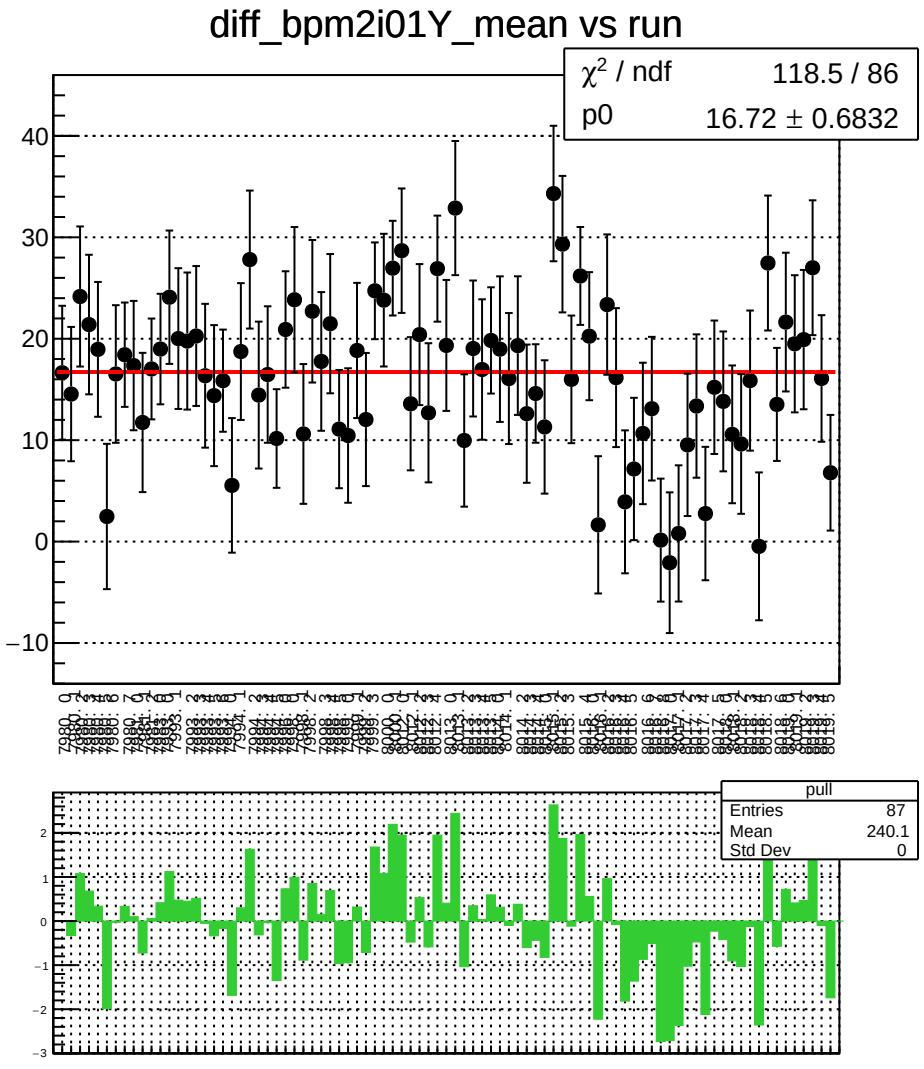

pull1D
Entries 87
Mean −0.009151
Std Dev 1.282
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

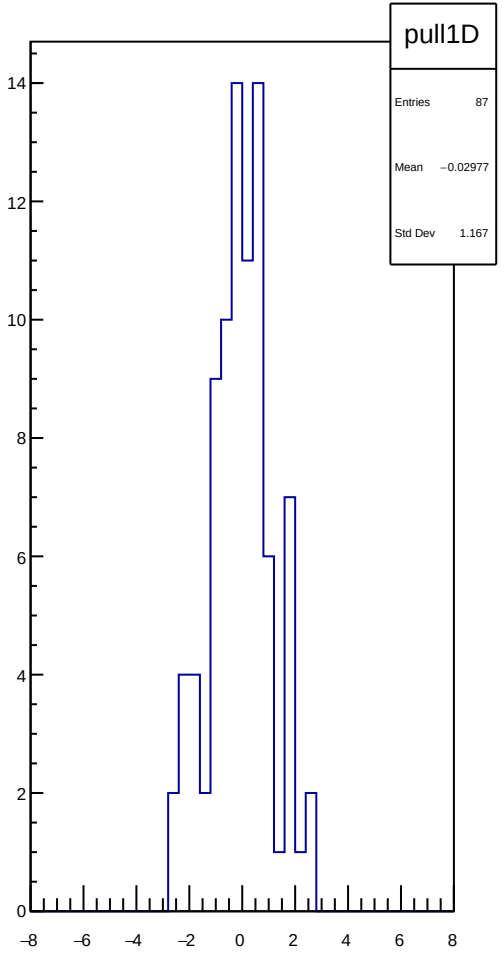

diff_bpm0r05Y_rms vs run
χ² / ndf 1.159e+04 / 86
p0 2693 ± 2.037
3400
3200
3000
2800
2600
2400

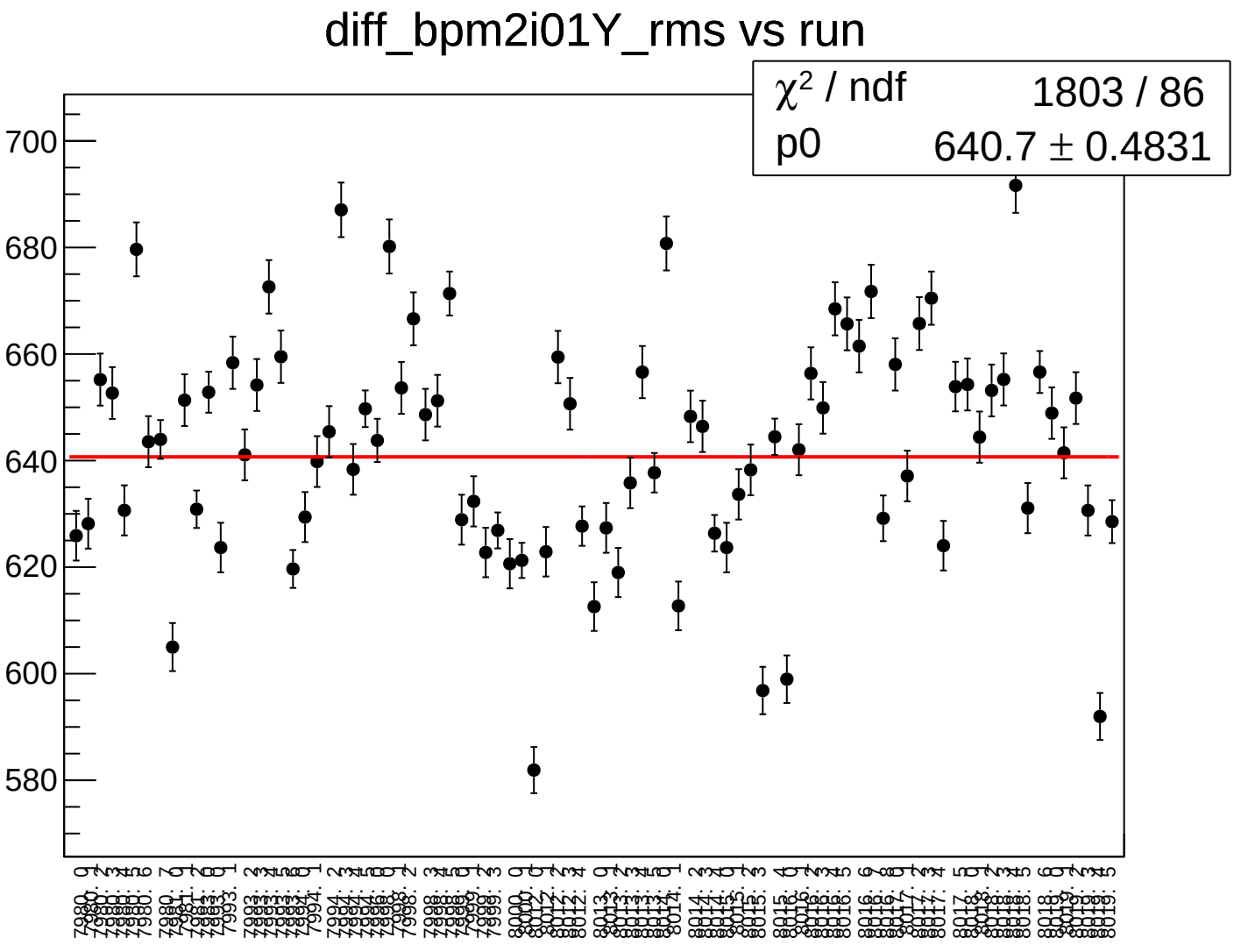

diff_bpm2i01X_mean vs run
χ² / ndf 108.9 / 86
p0 0.4536 ± 0.5633
pull
Entries 87
Mean 245.8
Std Dev 0

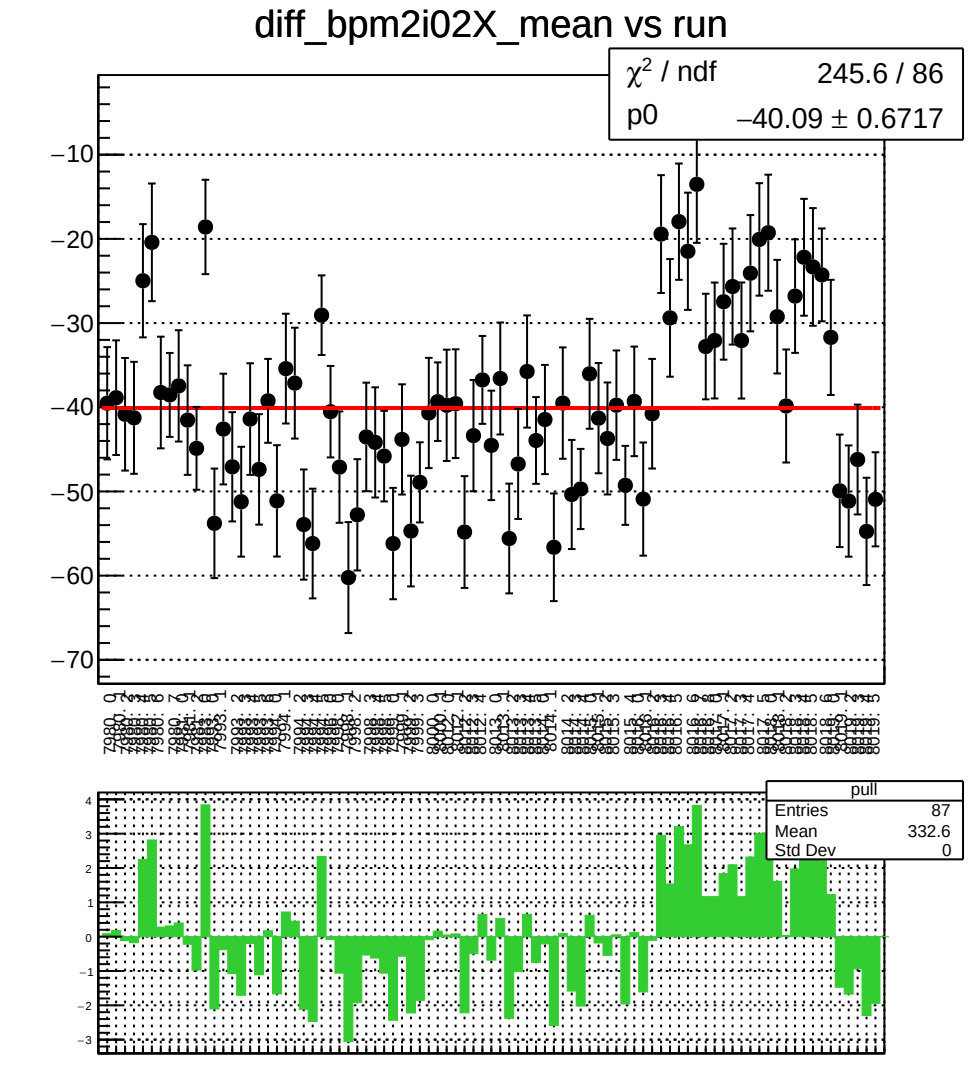

pull1D
Entries 87
Mean 0.02112
Std Dev 1.118

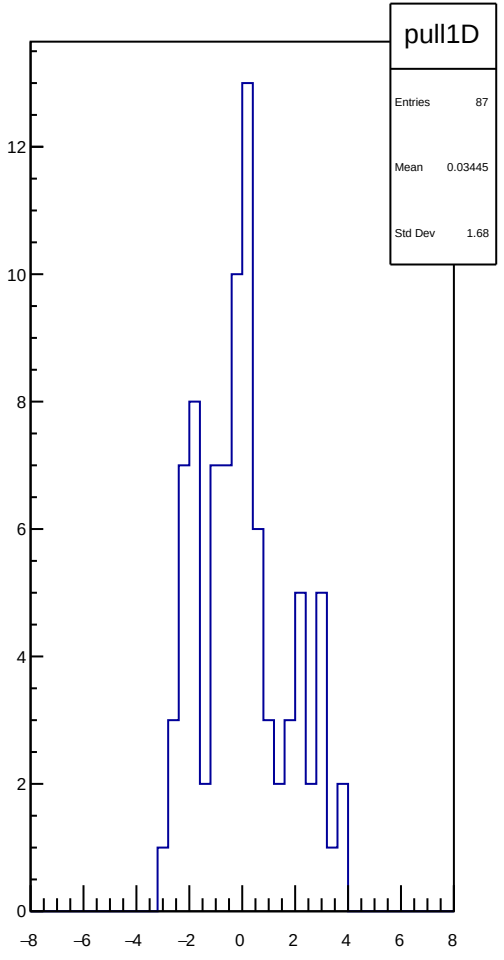

diff_bpm2i01X_rms vs run
χ² / ndf 1401 / 86
p0 528.3 ± 0.3983
570
560
550
540
530
520
510
500

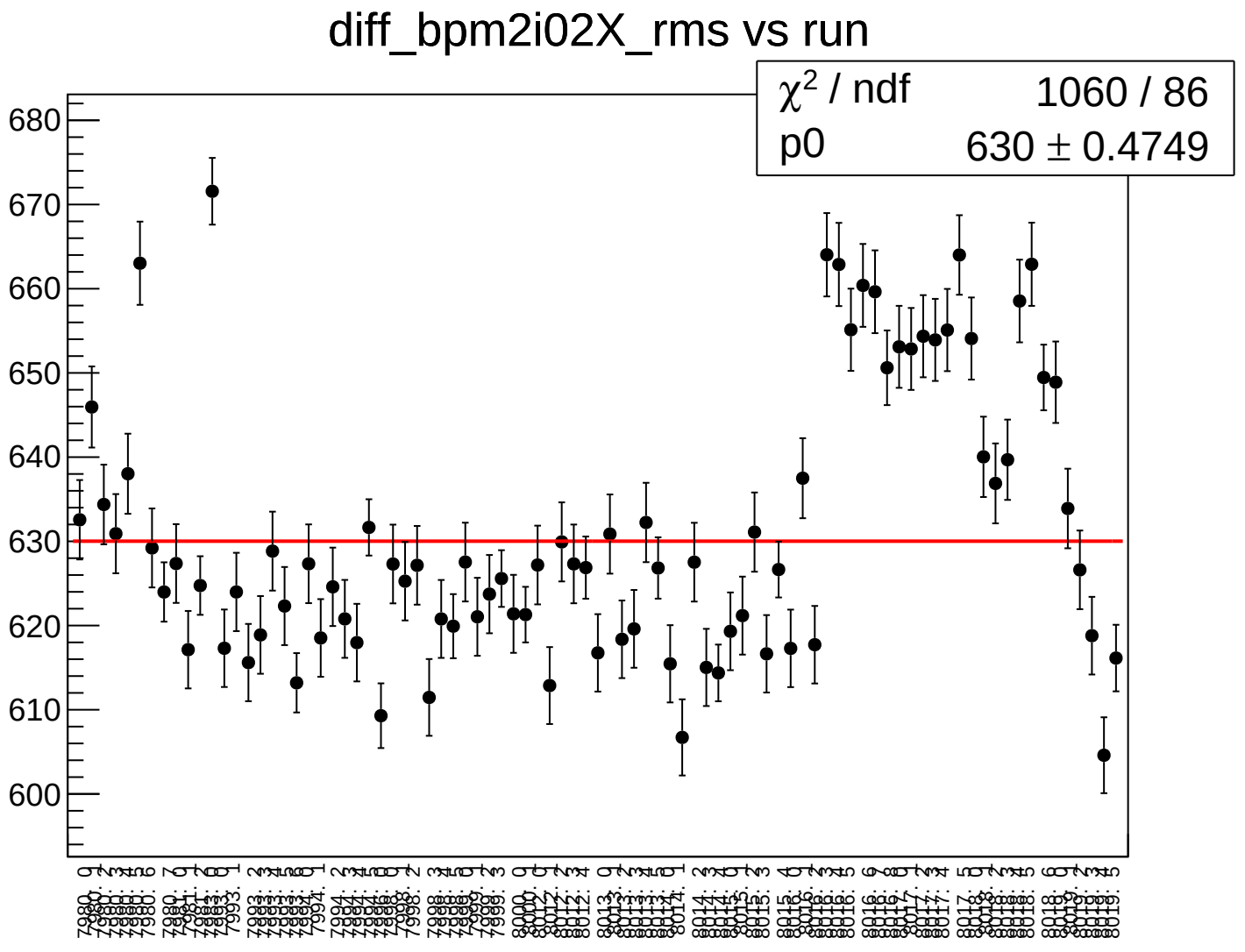

diff_bpm2i01Y_mean vs run
χ^2 / ndf 118.5 / 86
p0 16.72 ± 0.6832
pull
Entries 87
Mean 240.1
Std Dev 0

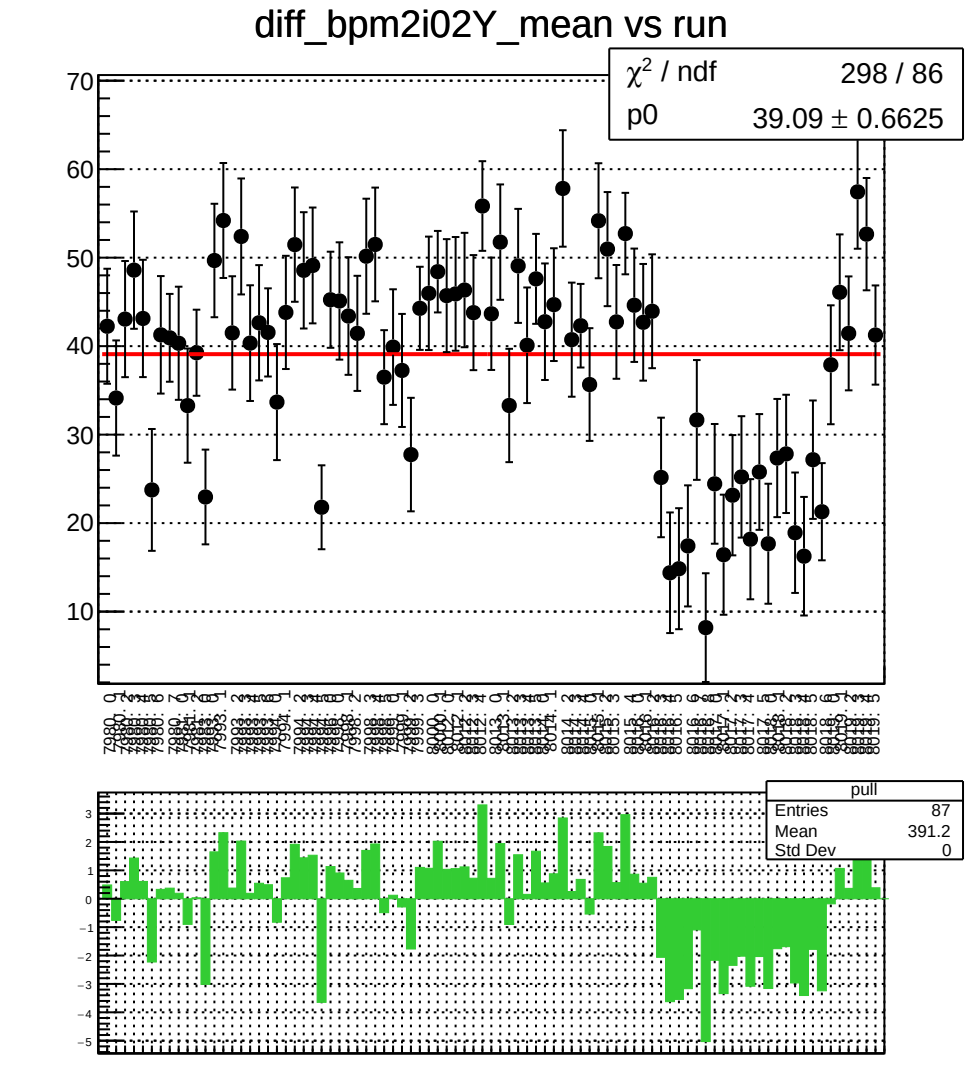

pull1D
Entries 87
Mean −0.02977
Std Dev 1.167

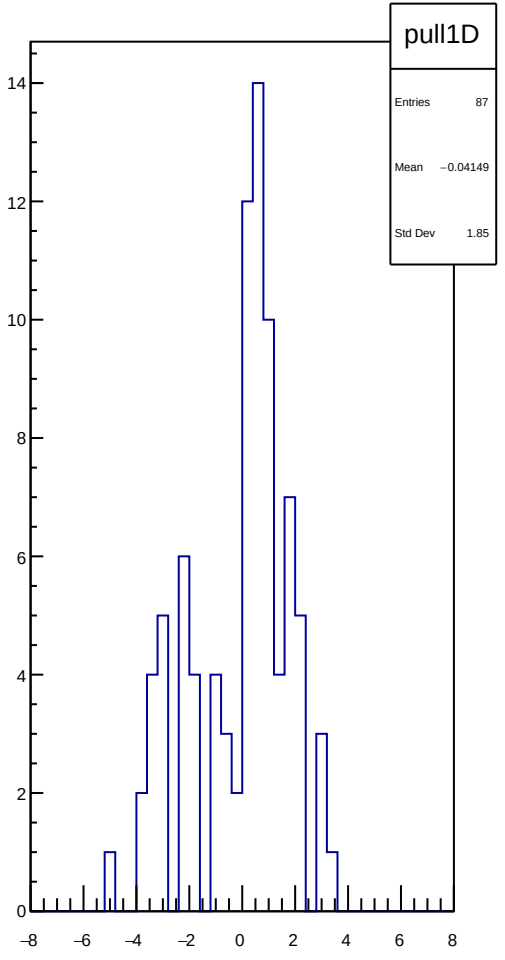

diff_bpm2i01Y_rms vs run
χ² / ndf 1803 / 86
p0 640.7 ± 0.4831
700
680
660
640
620
600
580

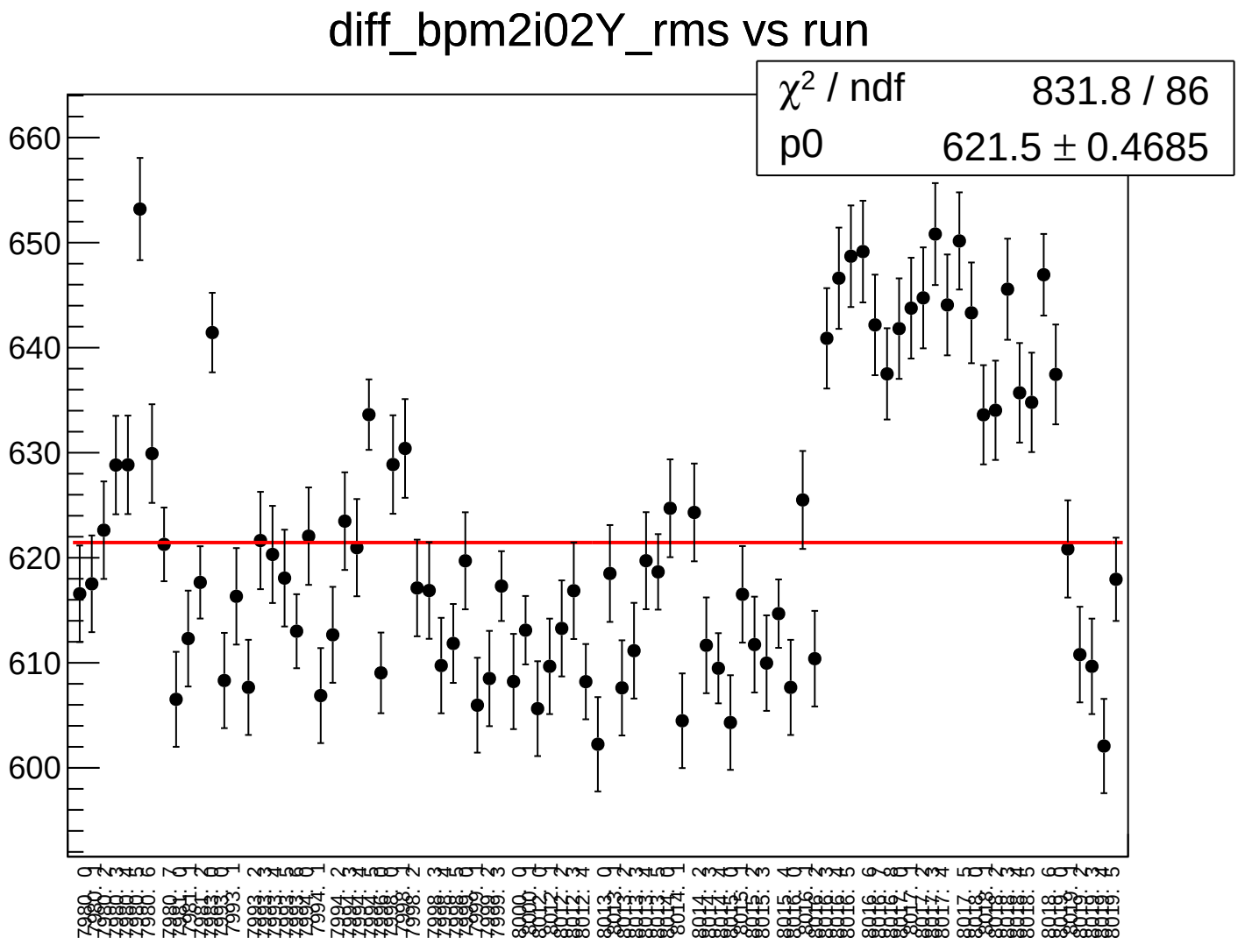

diff_bpm2i02X_mean vs run
χ² / ndf 245.6 / 86
p0 −40.09 ± 0.6717
pull
Entries 87
Mean 332.6
Std Dev 0

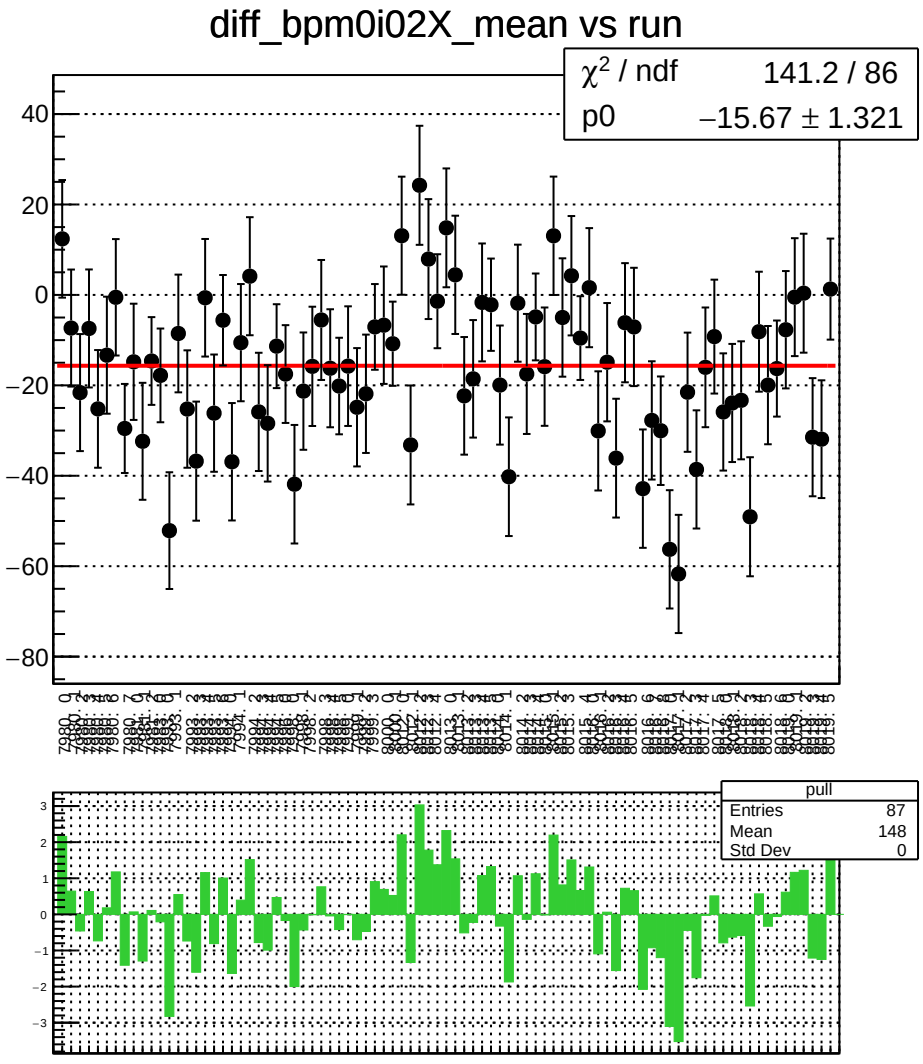

pull1D
Entries 87
Mean 0.03445
Std Dev 1.68

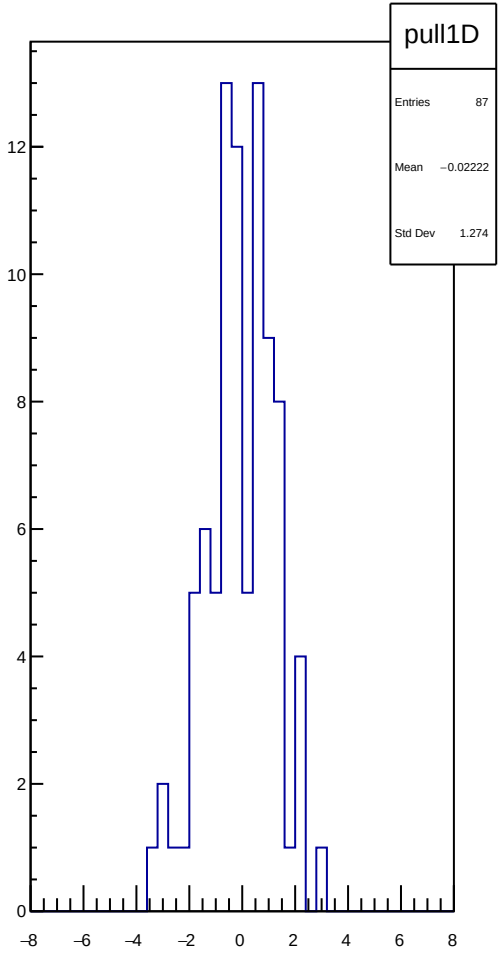

diff_bpm2i02X_rms vs run
χ² / ndf 1060 / 86
p0 630 ± 0.4749
680
670
660
650
640
630
620
610
600

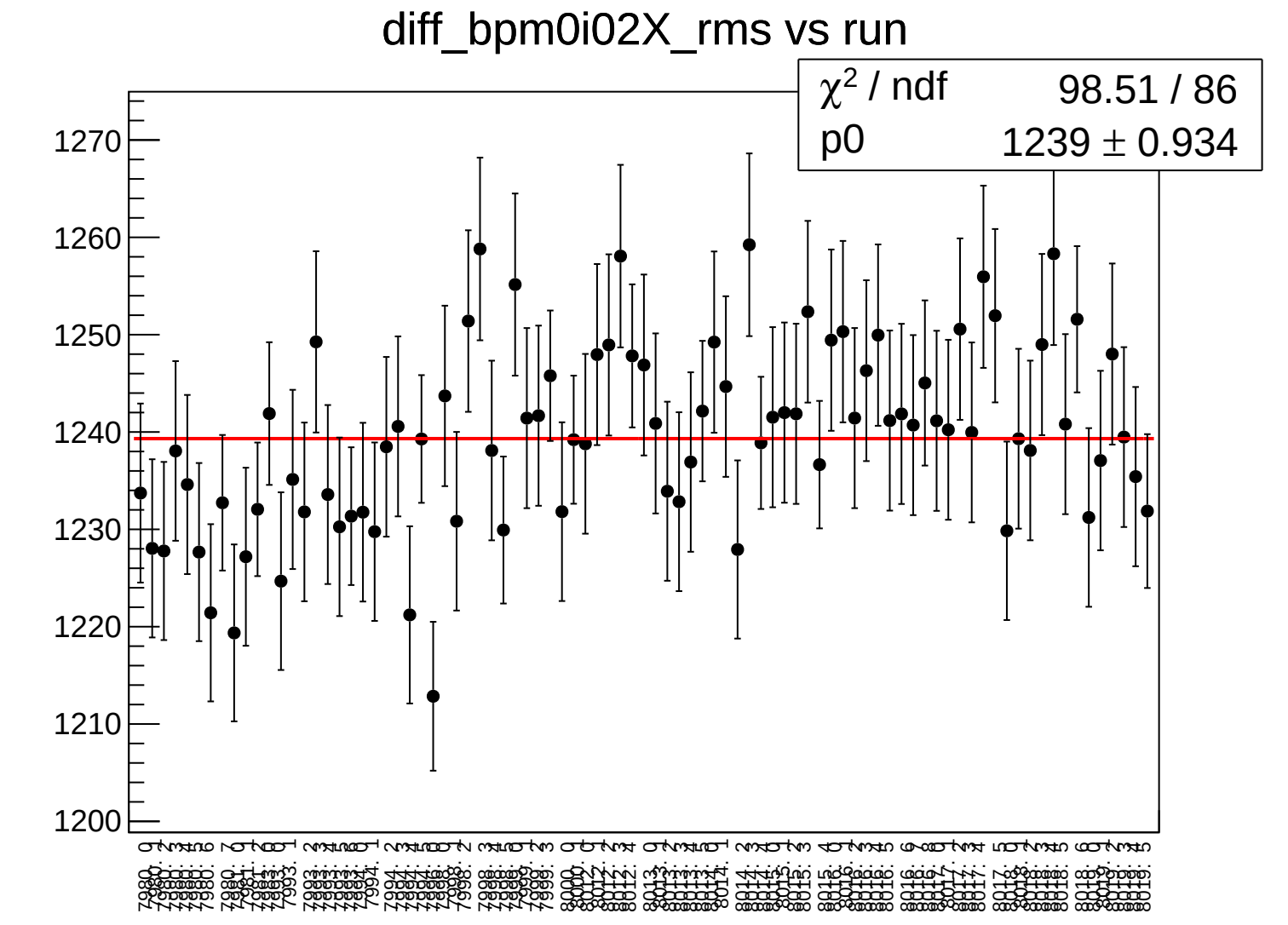

diff_bpm2i02Y_mean vs run
χ² / ndf 298 / 86
p0 39.09 ± 0.6625
pull
Entries 87
Mean 391.2
Std Dev 0

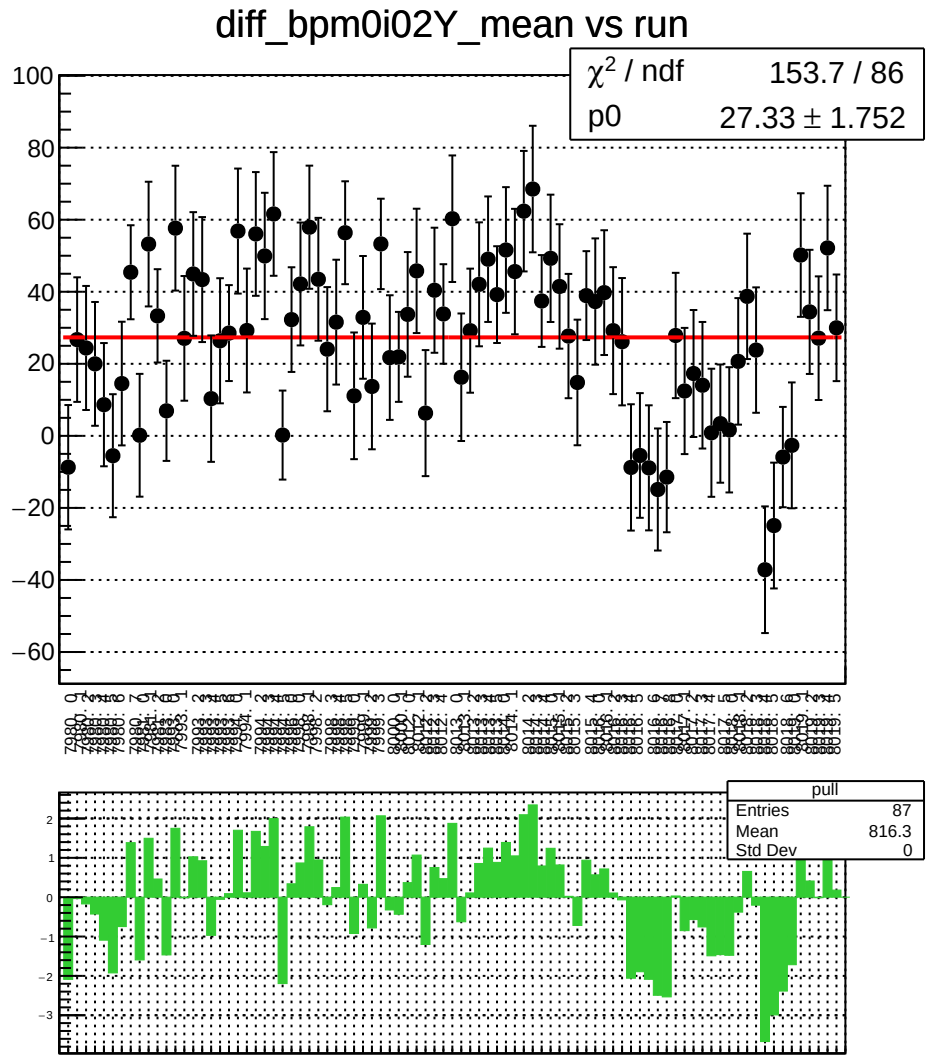

pull1D
Entries 87
Mean −0.04149
Std Dev 1.85

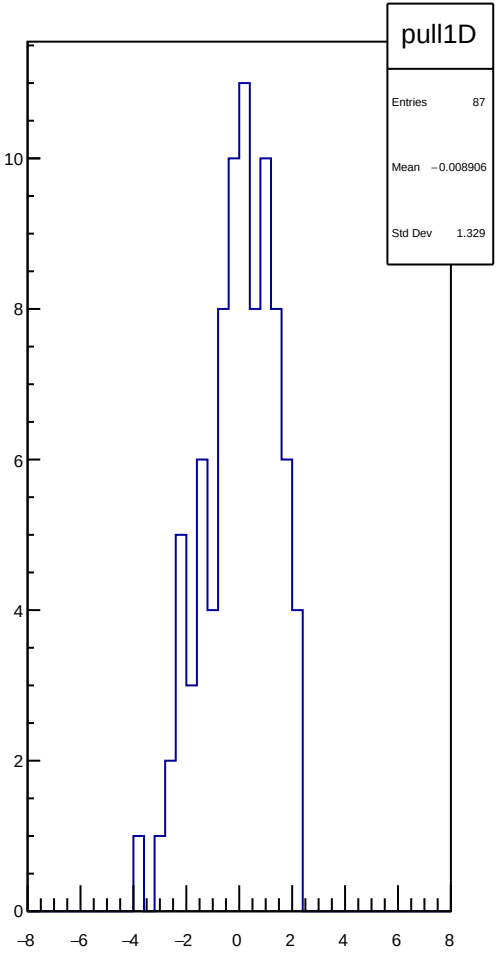

diff_bpm2i02Y_rms vs run
χ² / ndf 831.8 / 86
p0 621.5 ± 0.4685
660
650
640
630
620
610
600

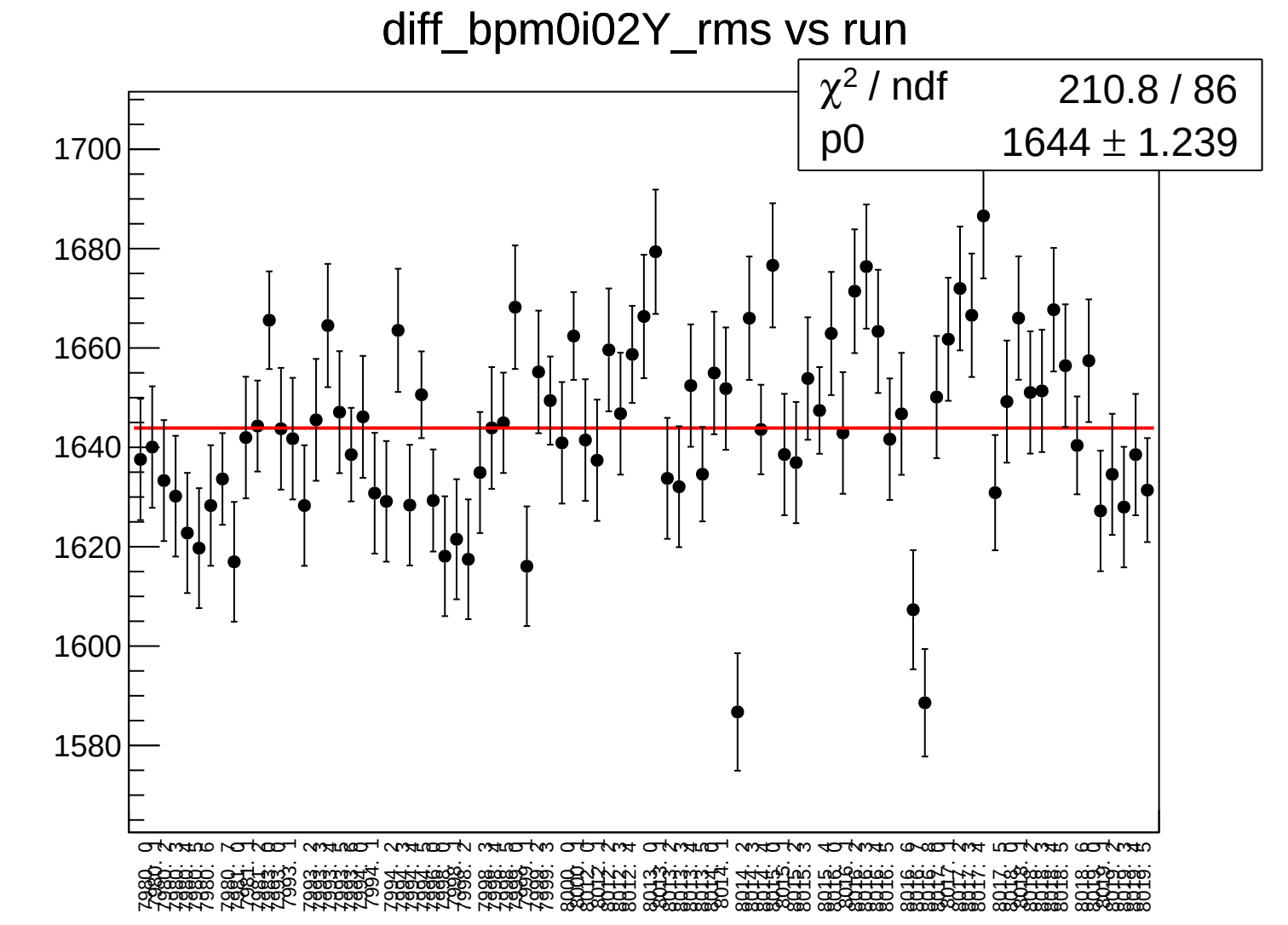

diff_bpm0i02X_mean vs run
χ² / ndf 141.2 / 86
p0 −15.67 ± 1.321
pull
Entries 87
Mean 148
Std Dev 0

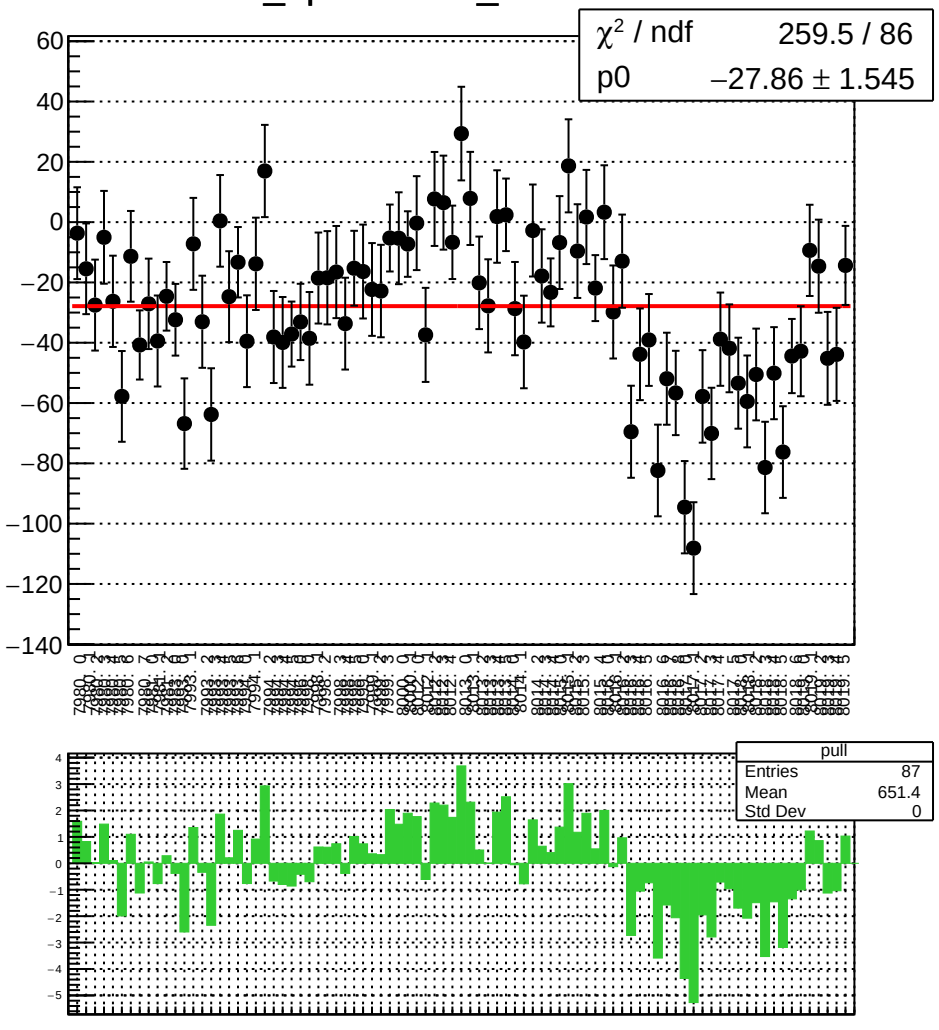

pull1D
Entries 87
Mean −0.02222
Std Dev 1.274

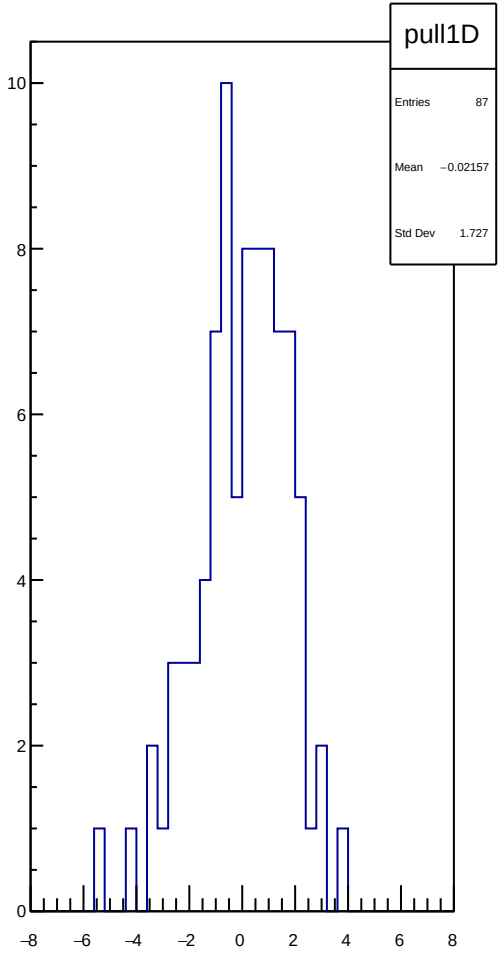

diff_bpm0i02X_rms vs run
χ² / ndf 98.51 / 86
p0 1239 ± 0.934
1270
1260
1250
1240
1230
1220
1210
1200

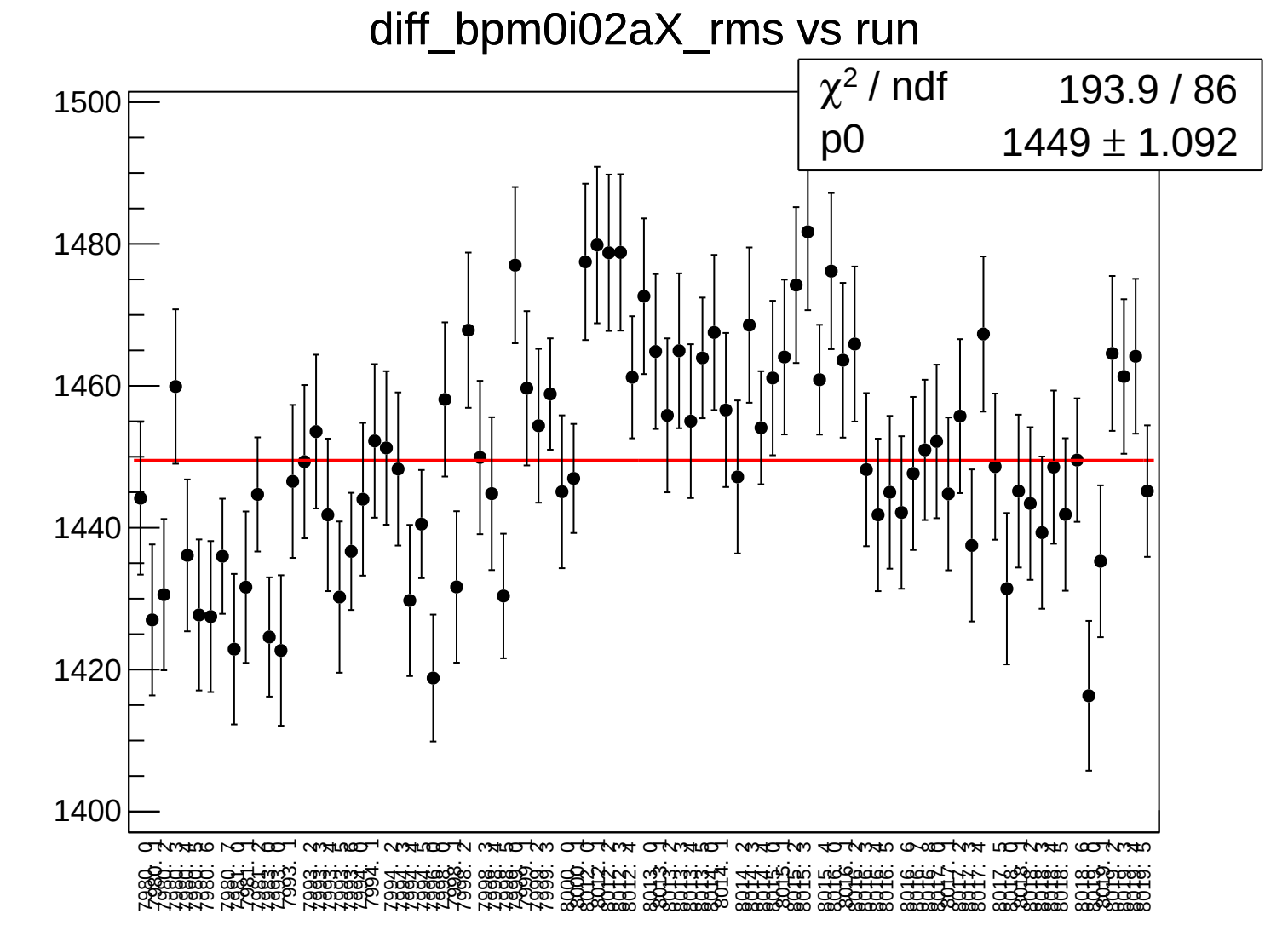

diff_bpm0i02Y_mean vs run
χ² / ndf 153.7 / 86
p0 27.33 ± 1.752
pull
Entries 87
Mean 816.3
Std Dev 0

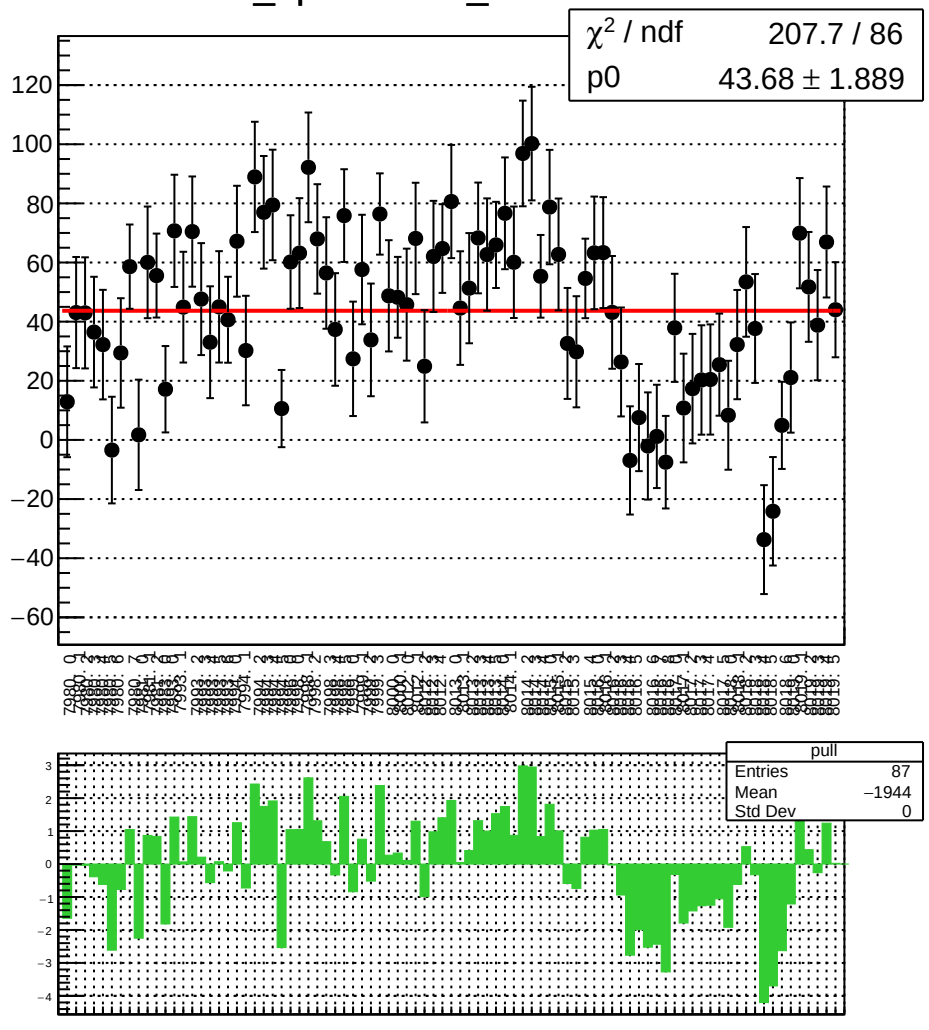

pull1D
Entries 87
Mean −0.008906
Std Dev 1.329

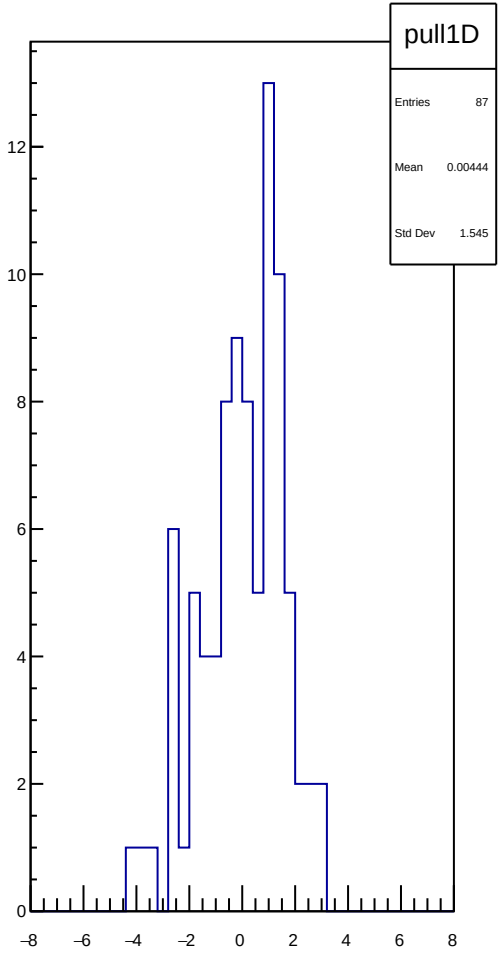

diff_bpm0i02Y_rms vs run
χ² / ndf 210.8 / 86
p0 1644 ± 1.239
1700
1680
1660
1640
1620
1600
1580

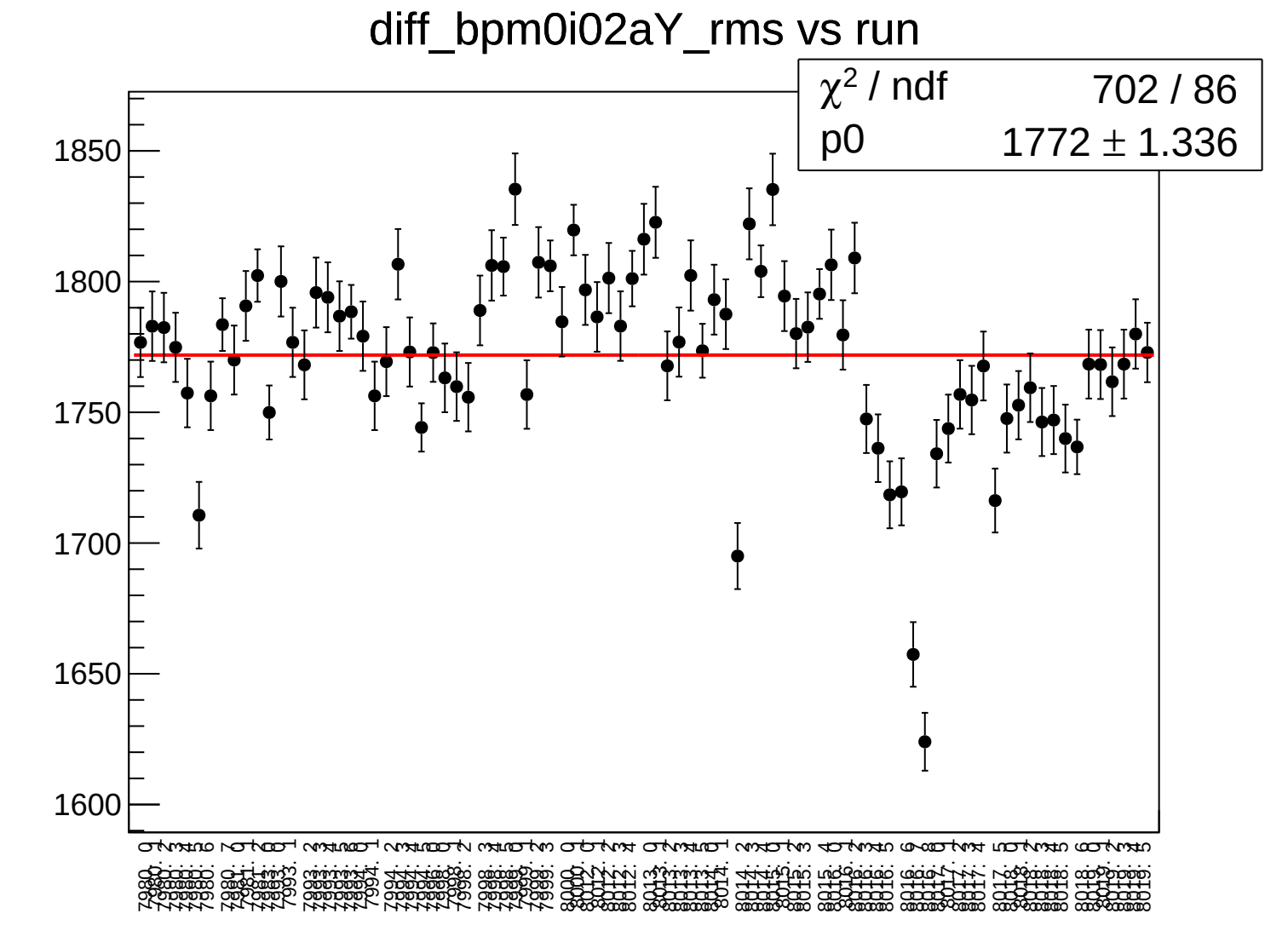

diff_bpm0i02aX_mean vs run
χ² / ndf 259.5 / 86
p0 −27.86 ± 1.545
pull
Entries 87
Mean 651.4
Std Dev 0

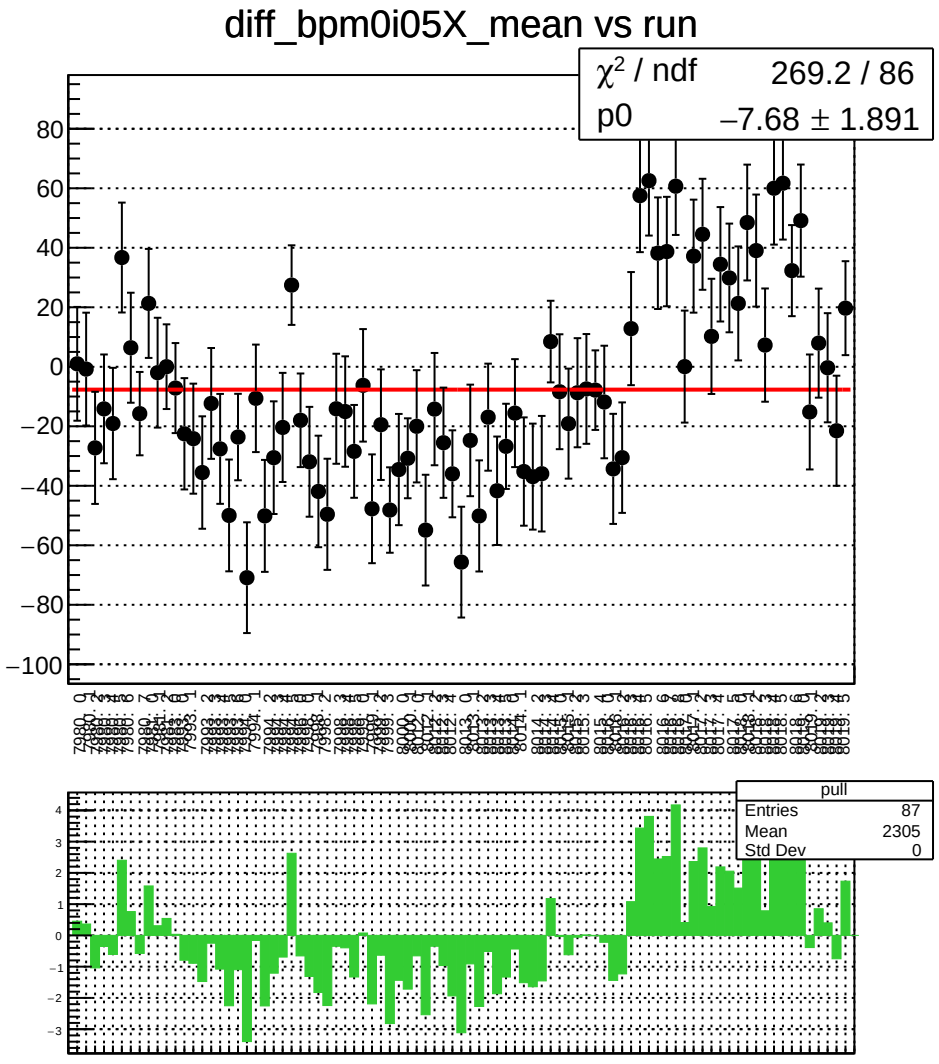

pull1D
Entries 87
Mean −0.02157
Std Dev 1.727

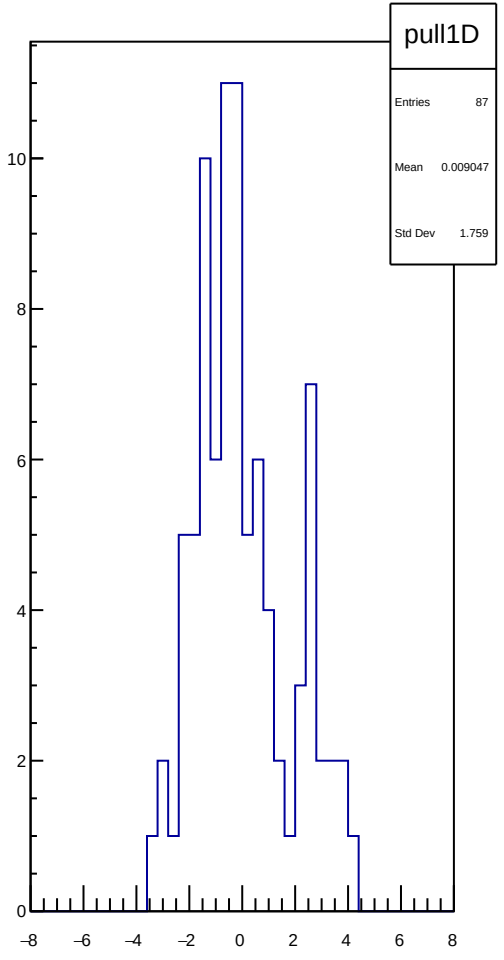

diff_bpm0i02aX_rms vs run
χ² / ndf 193.9 / 86
p0 1449 ± 1.092
1500
1480
1460
1440
1420
1400

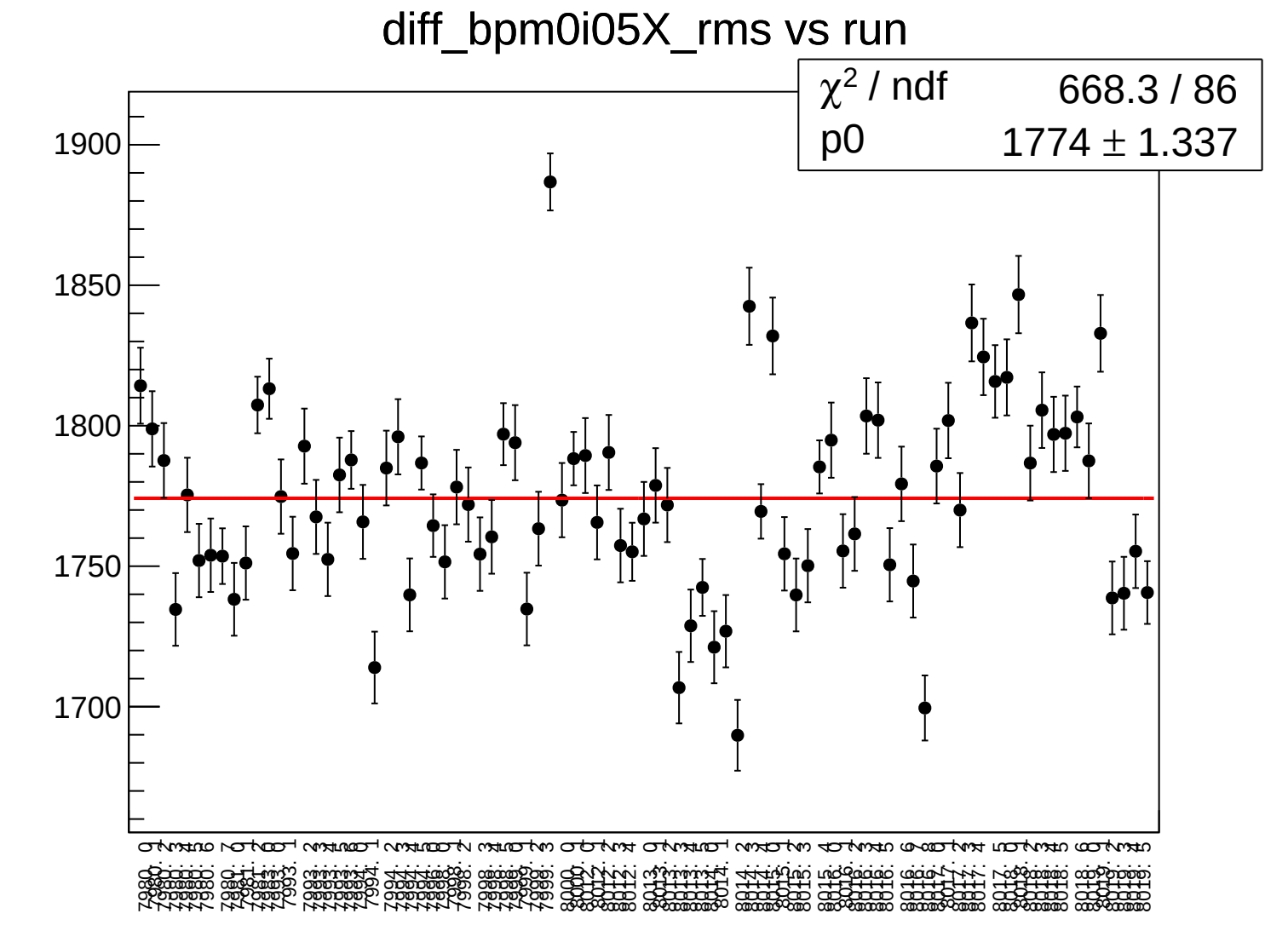

diff_bpm0i02aY_mean vs run
χ² / ndf 207.7 / 86
p0 43.68 ± 1.889
pull
Entries 87
Mean −1944
Std Dev 0

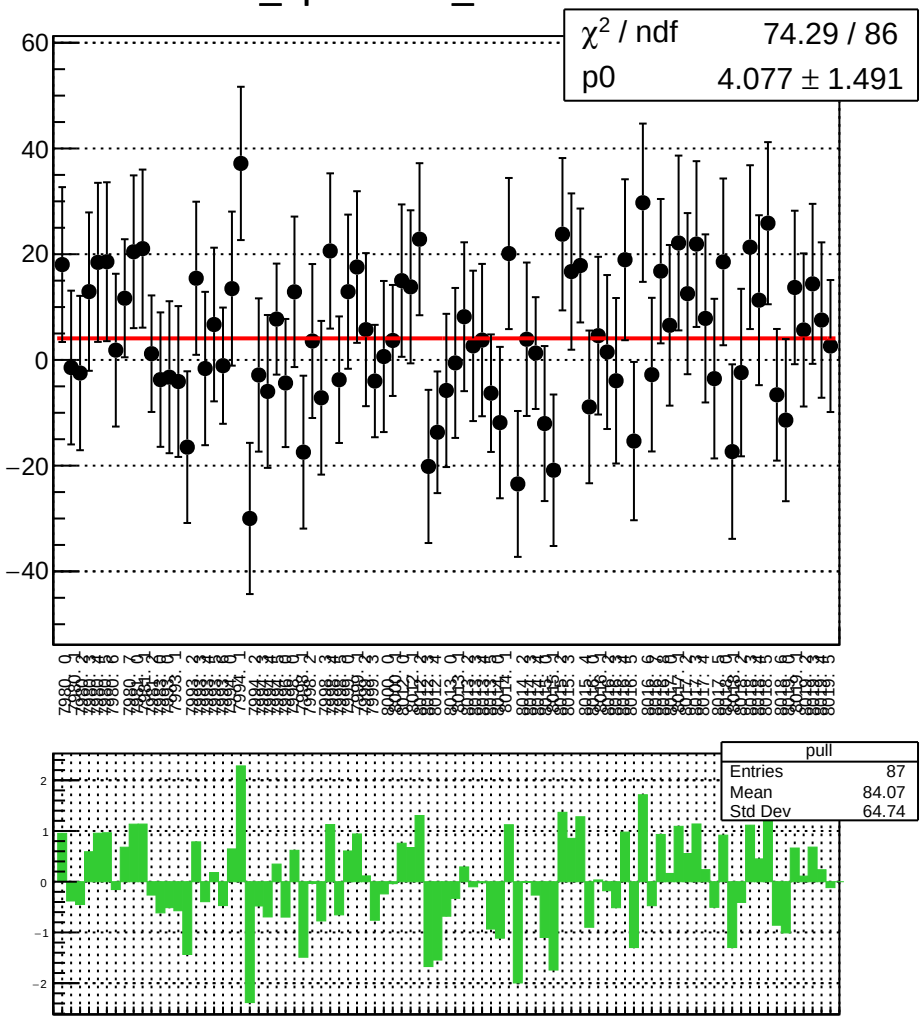

pull1D
Entries 87
Mean 0.00444
Std Dev 1.545

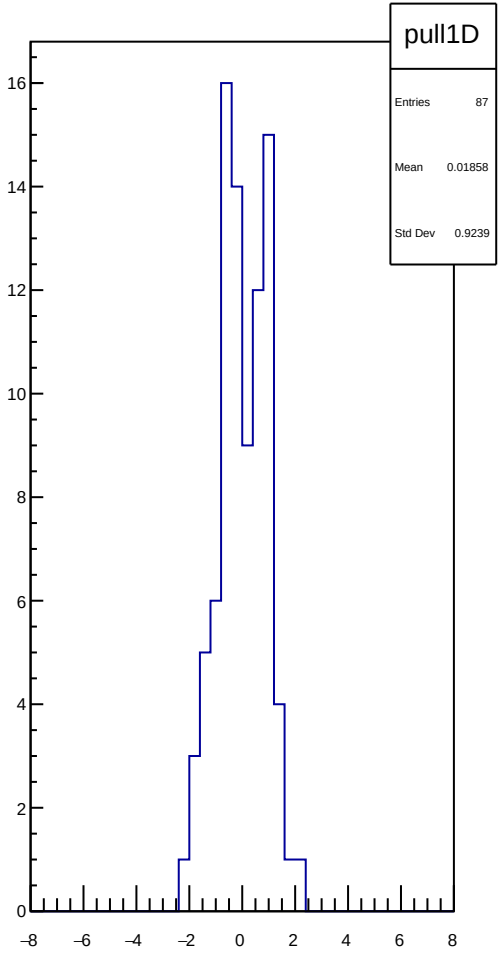

diff_bpm0i02aY_rms vs run
χ² / ndf 702 / 86
p0 1772 ± 1.336
1850
1800
1750
1700
1650
1600

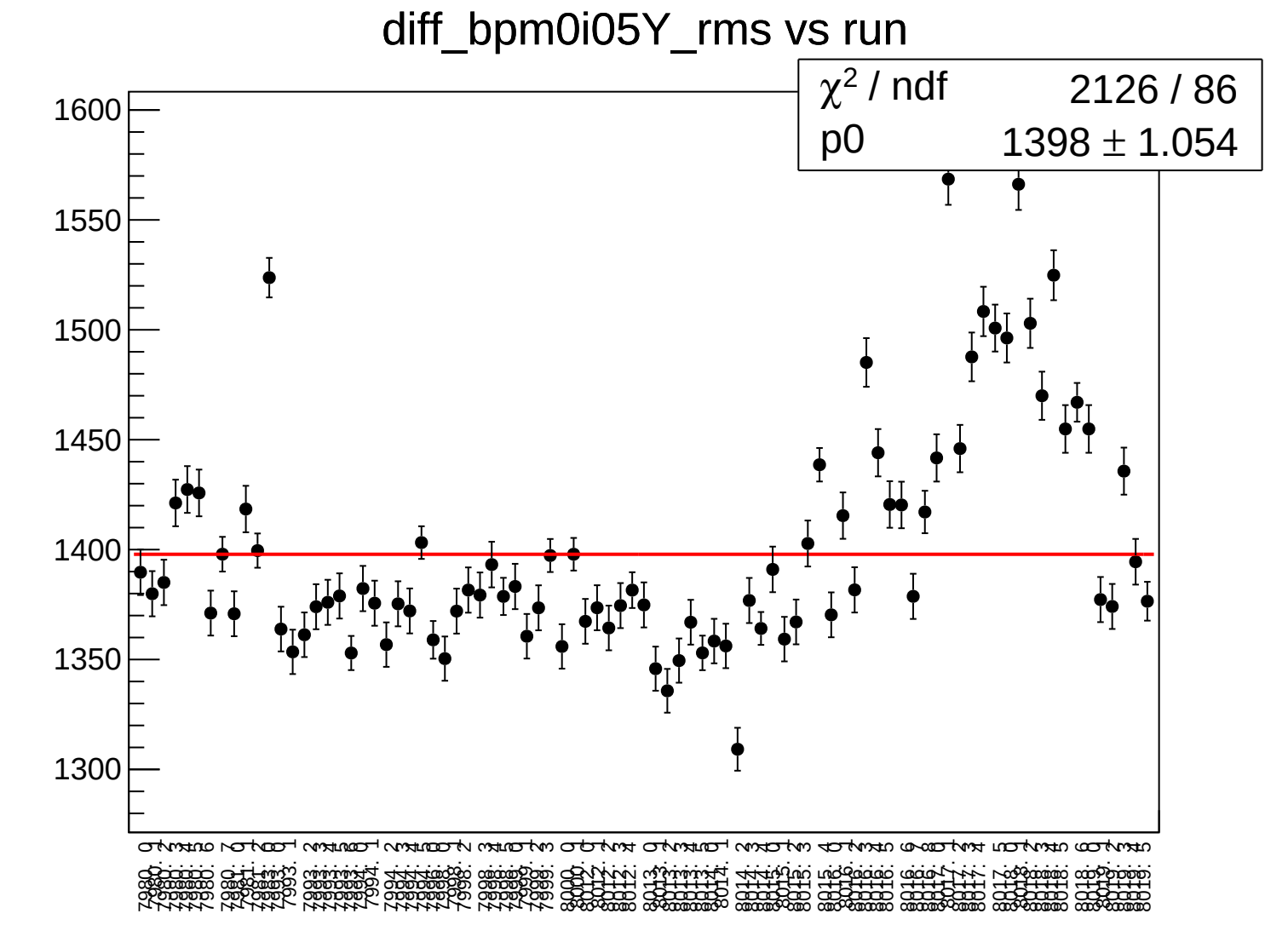

diff_bpm0i05X_mean vs run
χ² / ndf 269.2 / 86
p0 −7.68 ± 1.891
pull
Entries 87
Mean 2305
Std Dev 0

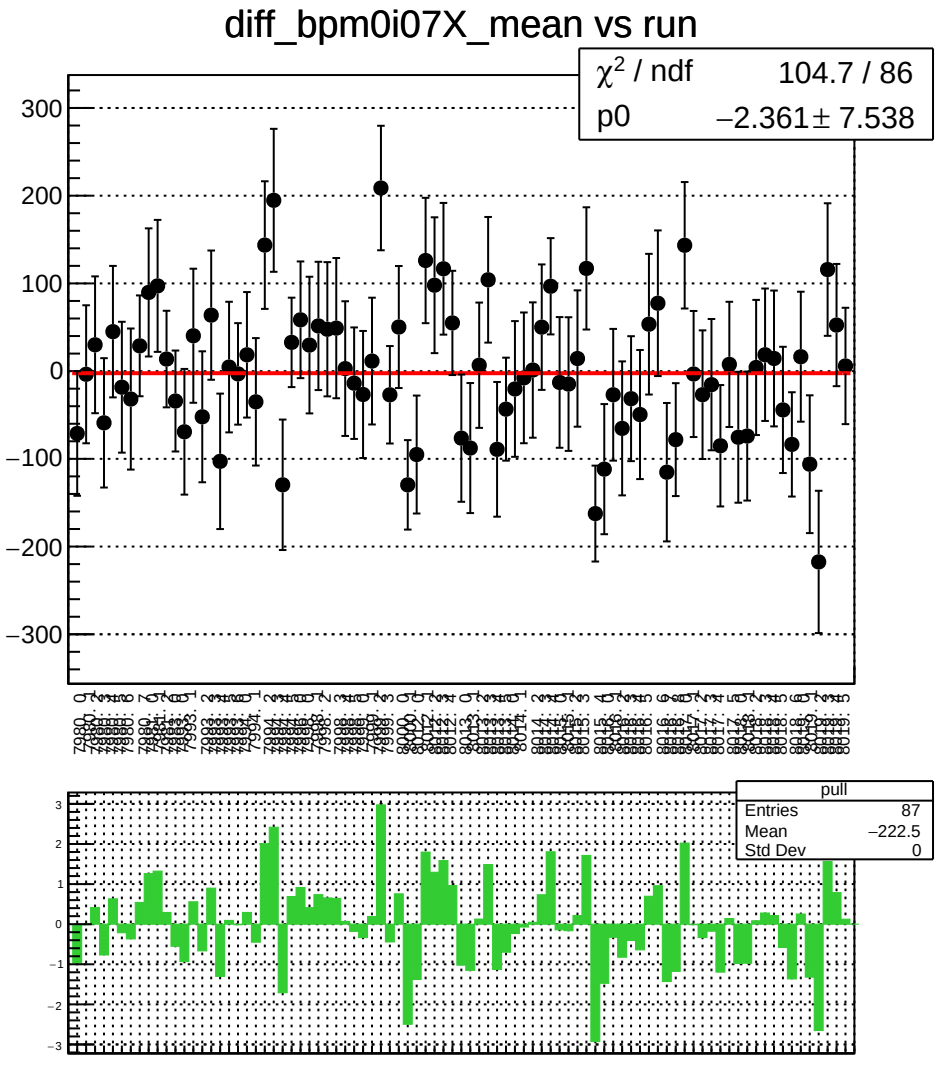

pull1D
Entries 87
Mean 0.009047
Std Dev 1.759

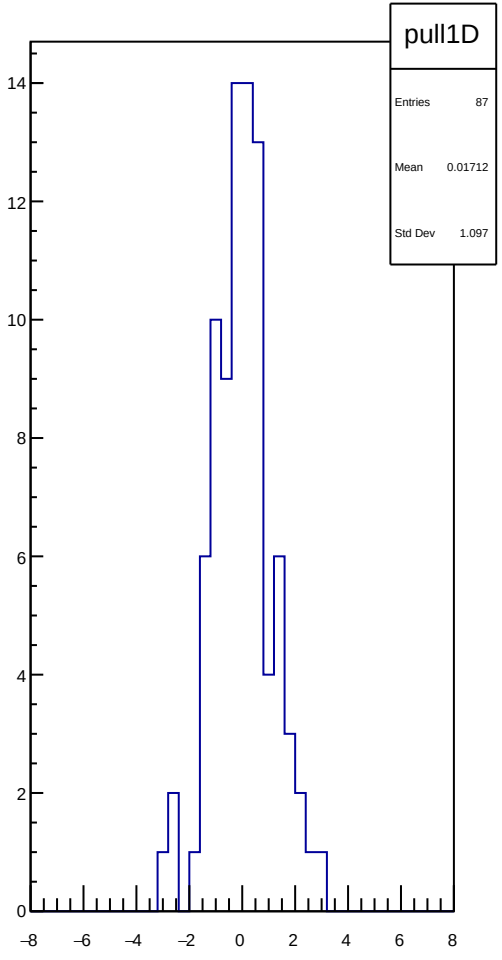

diff_bpm0i05X_rms vs run
χ² / ndf 668.3 / 86
p0 1774 ± 1.337
1900
1850
1800
1750
1700

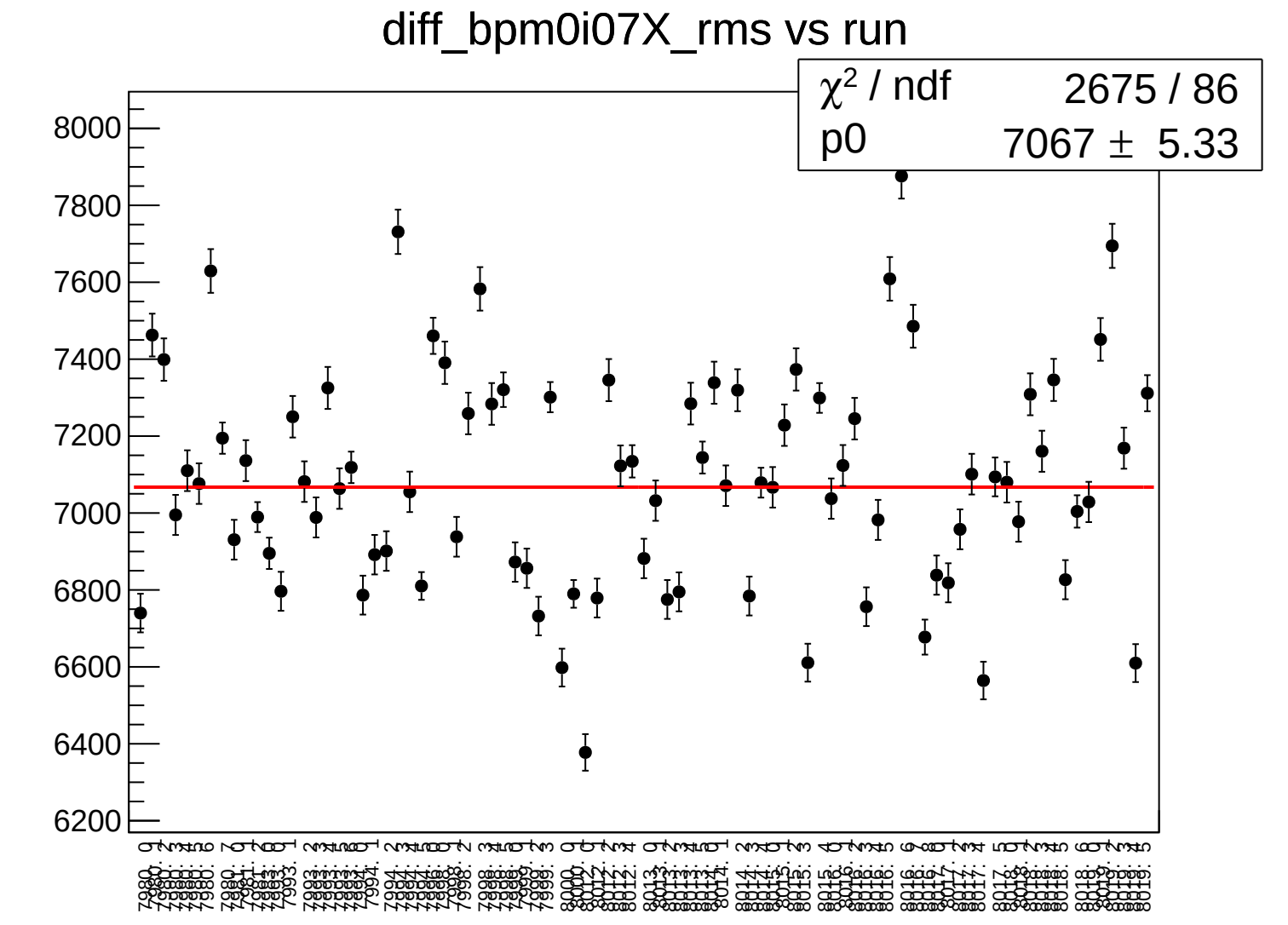

diff_bpm0i05Y_mean vs run
χ² / ndf 74.29 / 86
p0 4.077 ± 1.491
pull
Entries 87
Mean 84.07
Std Dev 64.74

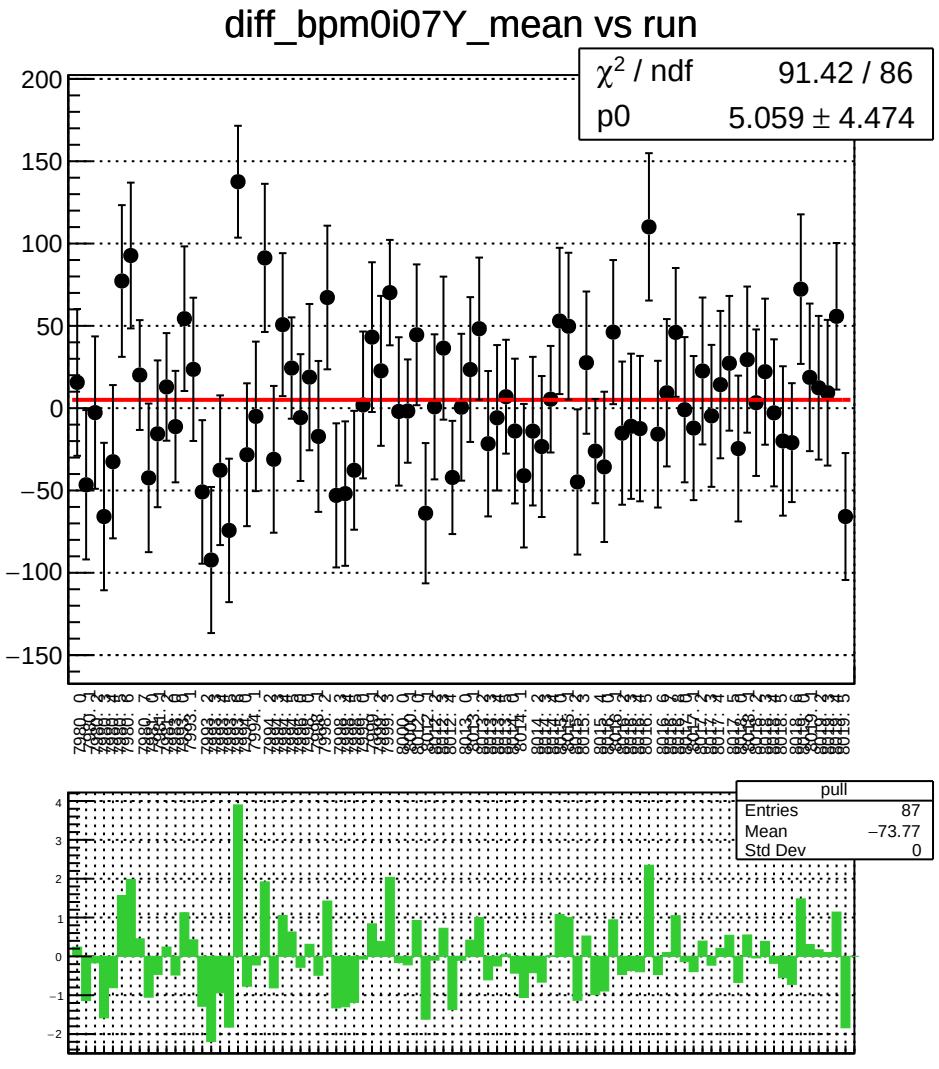

pull1D
Entries 87
Mean 0.01858
Std Dev 0.9239

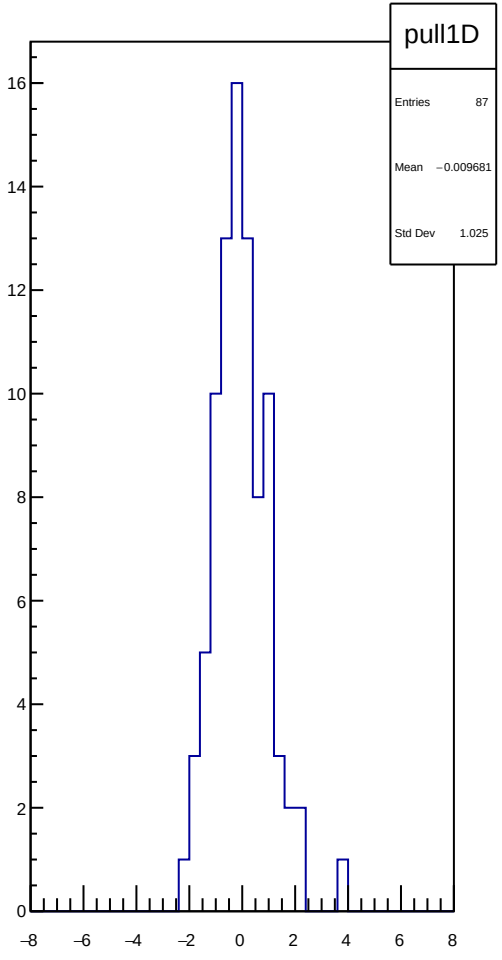

diff_bpm0i05Y_rms vs run
χ² / ndf 2126 / 86
p0 1398 ± 1.054
1600
1550
1500
1450
1400
1350
1300

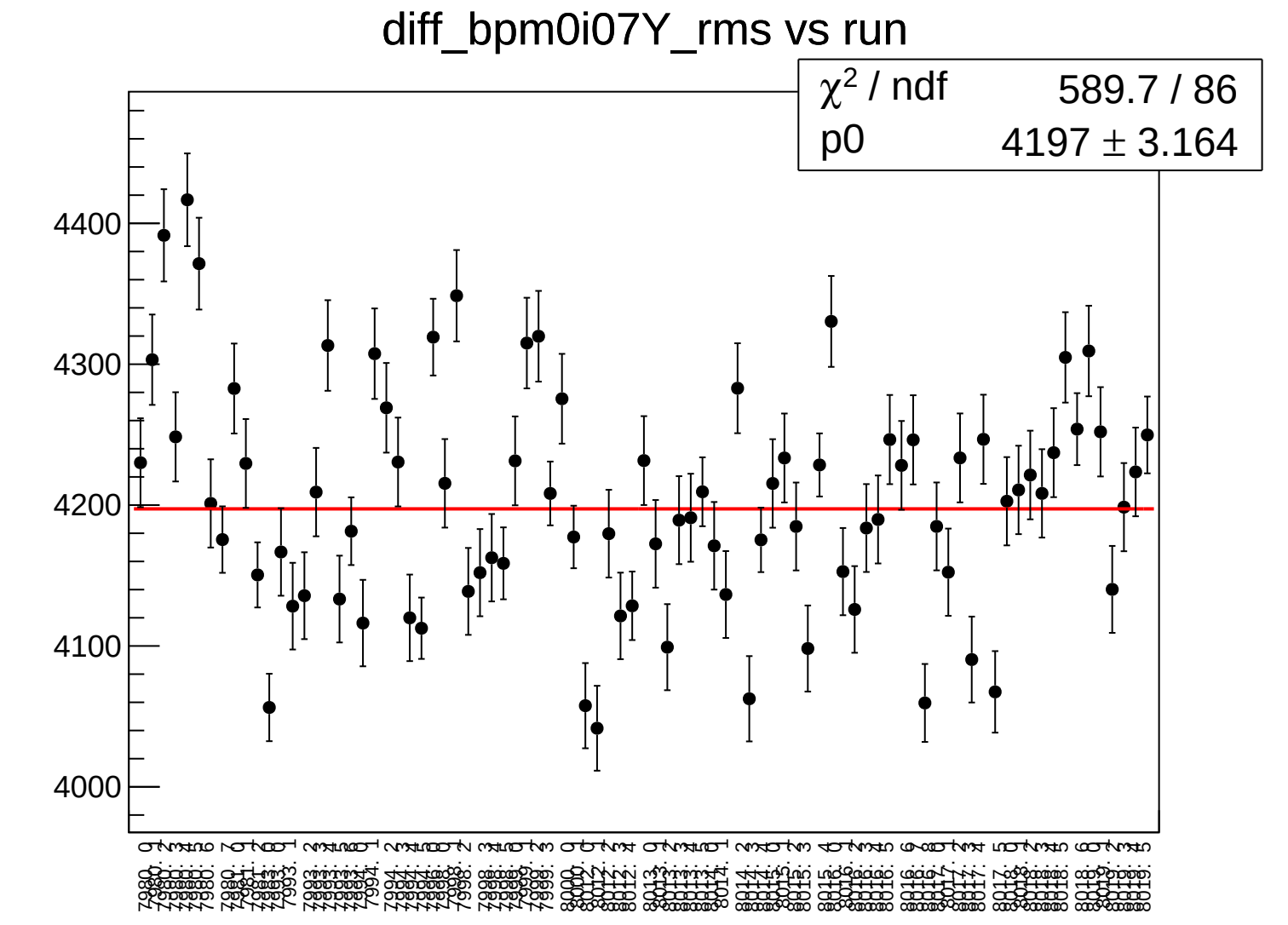

diff_bpm0i07X_mean vs run
χ² / ndf 104.7 / 86
p0 −2.361 ± 7.538
pull
Entries 87
Mean −222.5
Std Dev 0

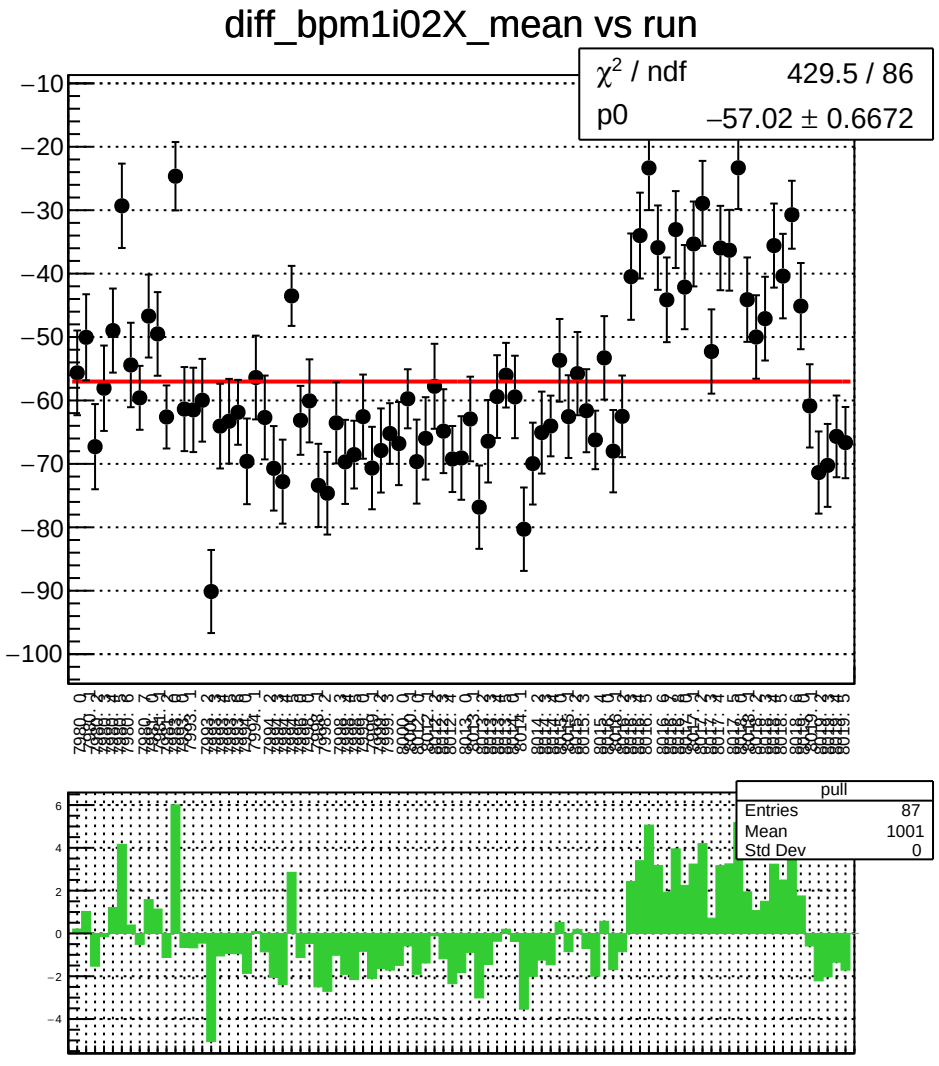

pull1D
Entries 87
Mean 0.01712
Std Dev 1.097

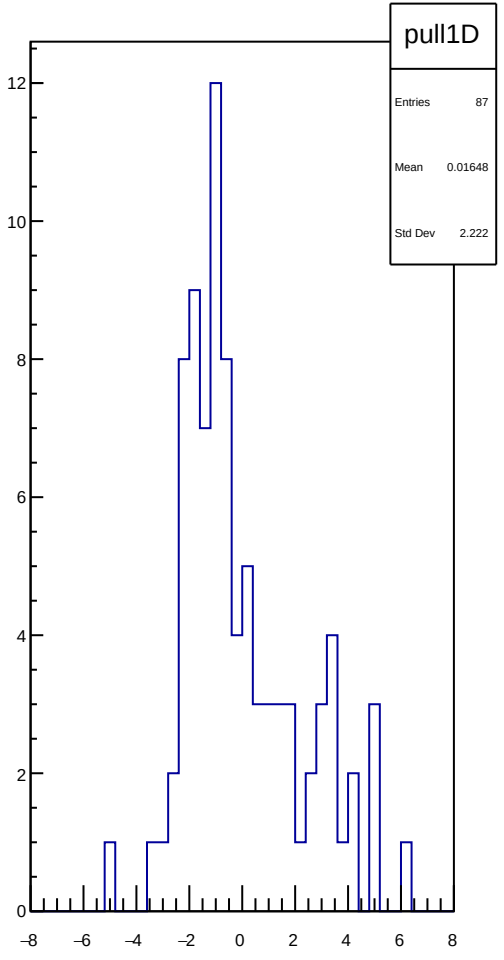

diff_bpm0i07X_rms vs run
χ² / ndf 2675 / 86
p0 7067 ± 5.33
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

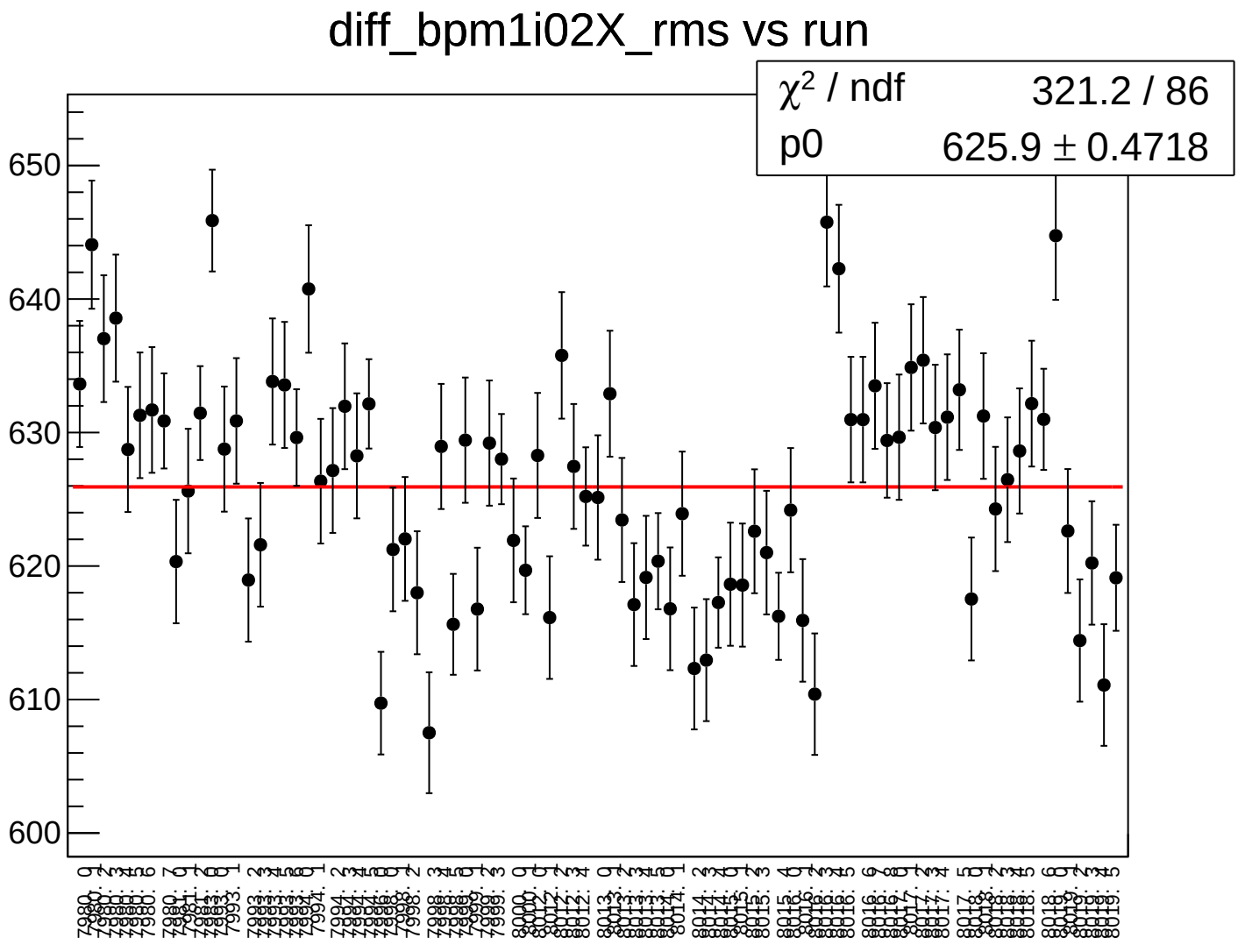

diff_bpm0i07Y_mean vs run
χ^2 / ndf 91.42 / 86
p0 5.059 ± 4.474
pull
Entries 87
Mean −73.77
Std Dev 0

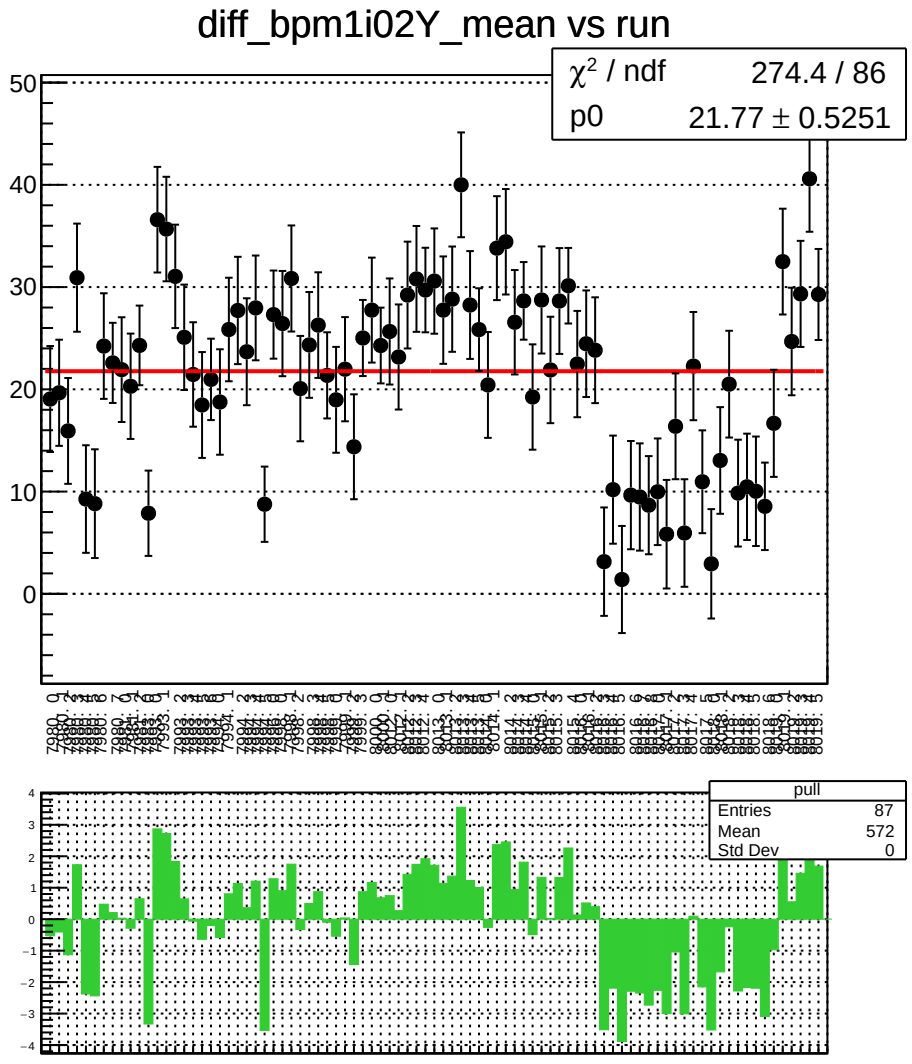

pull1D
Entries 87
Mean −0.009681
Std Dev 1.025

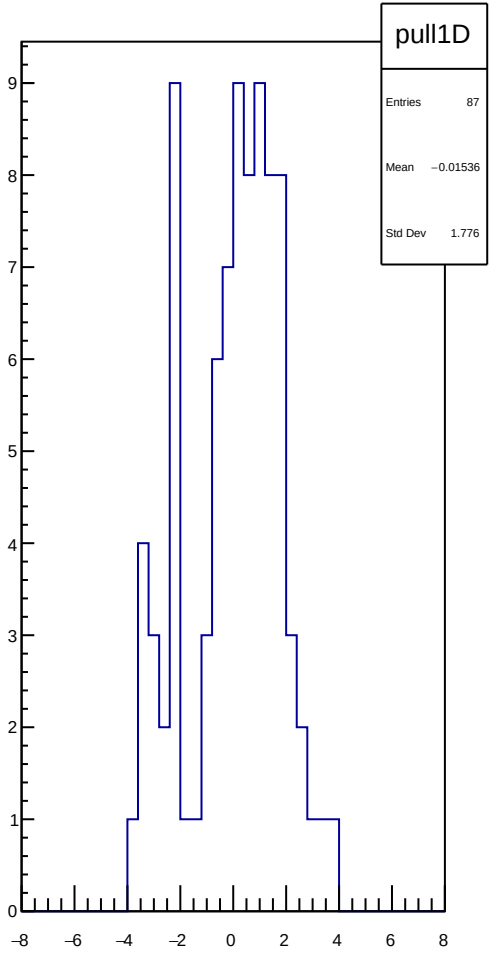

diff_bpm0i07Y_rms vs run
χ² / ndf 589.7 / 86
p0 4197 ± 3.164
4400
4300
4200
4100
4000

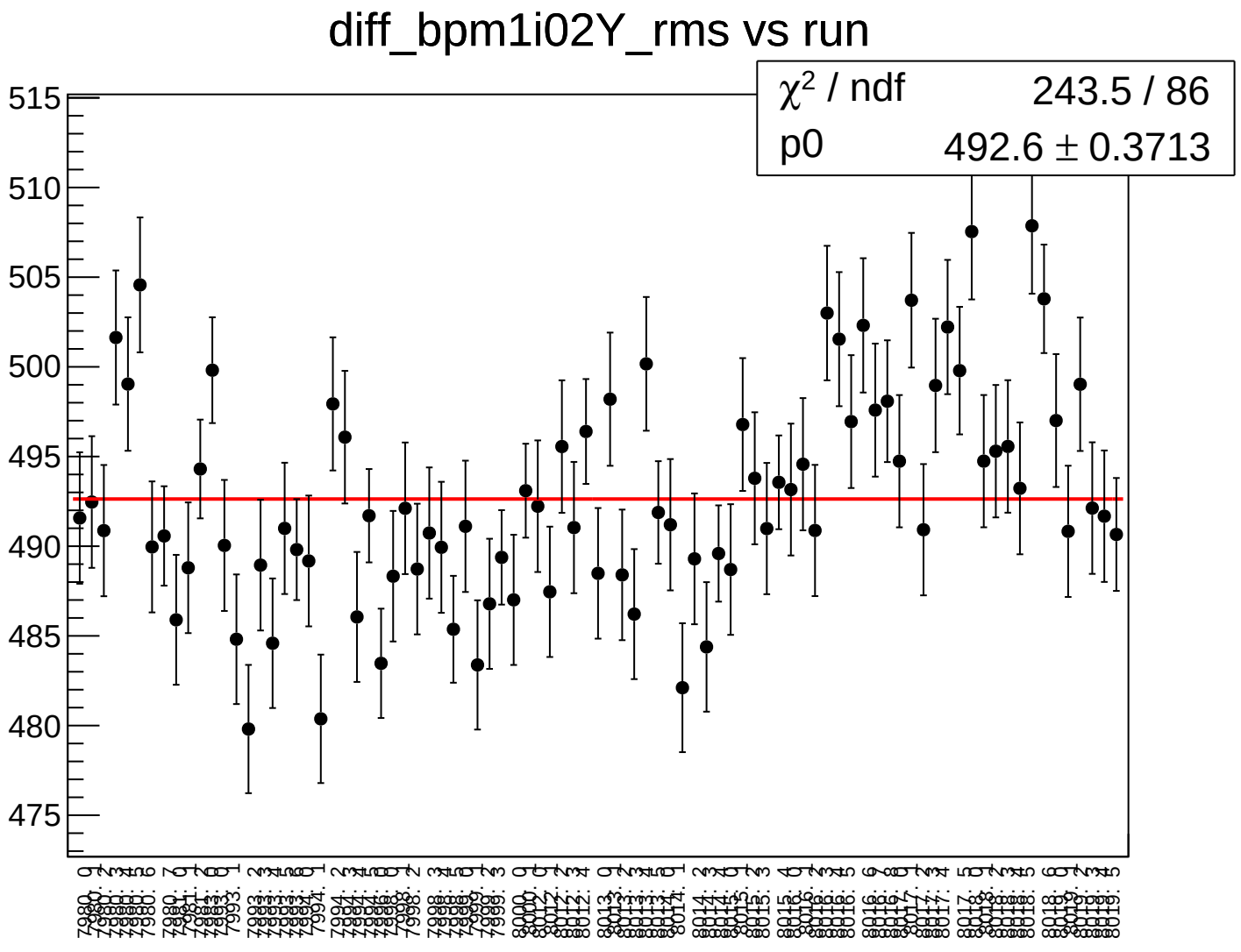

diff_bpm1i02X_mean vs run
χ² / ndf 429.5 / 86
p0 −57.02 ± 0.6672
pull
Entries 87
Mean 1001
Std Dev 0

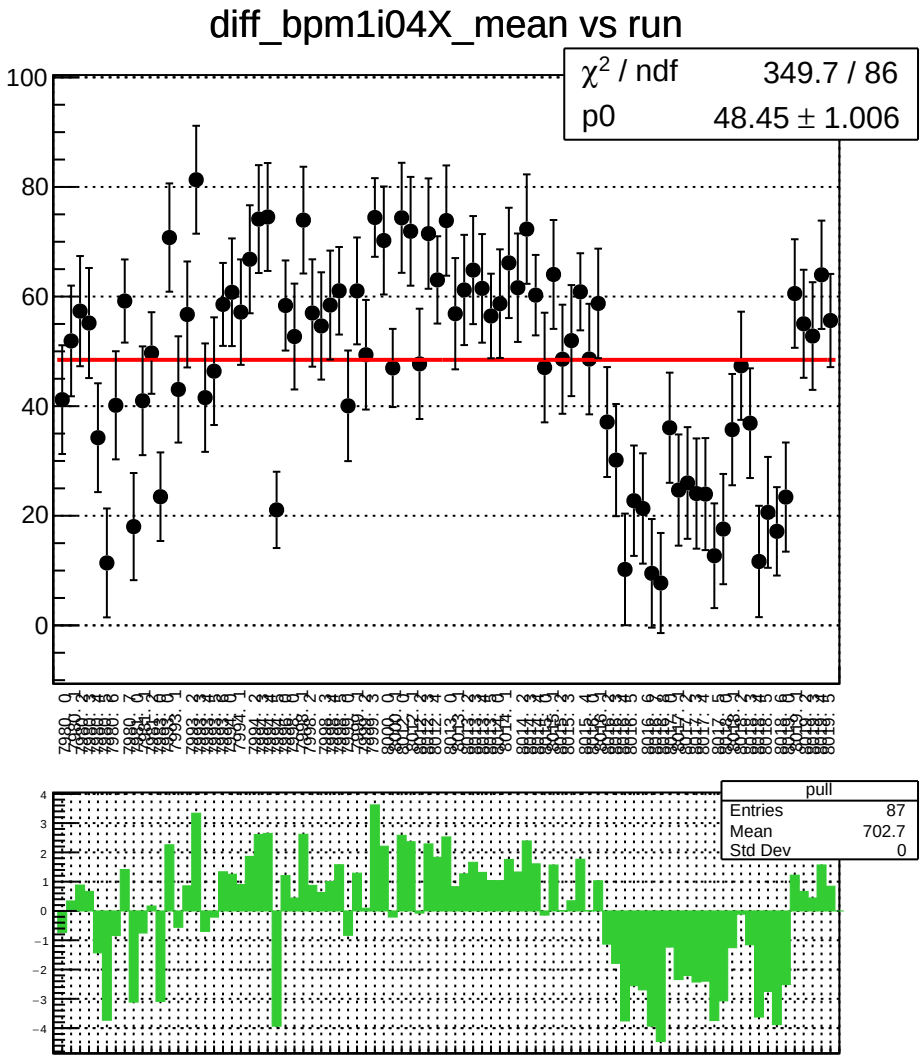

pull1D
Entries 87
Mean 0.01648
Std Dev 2.222

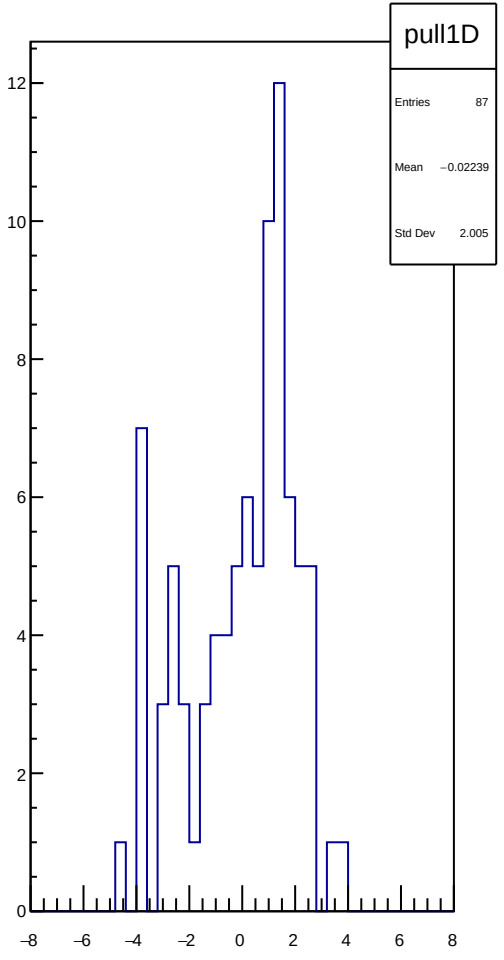

diff_bpm1i02X_rms vs run
χ² / ndf 321.2 / 86
p0 625.9 ± 0.4718
650
640
630
620
610
600

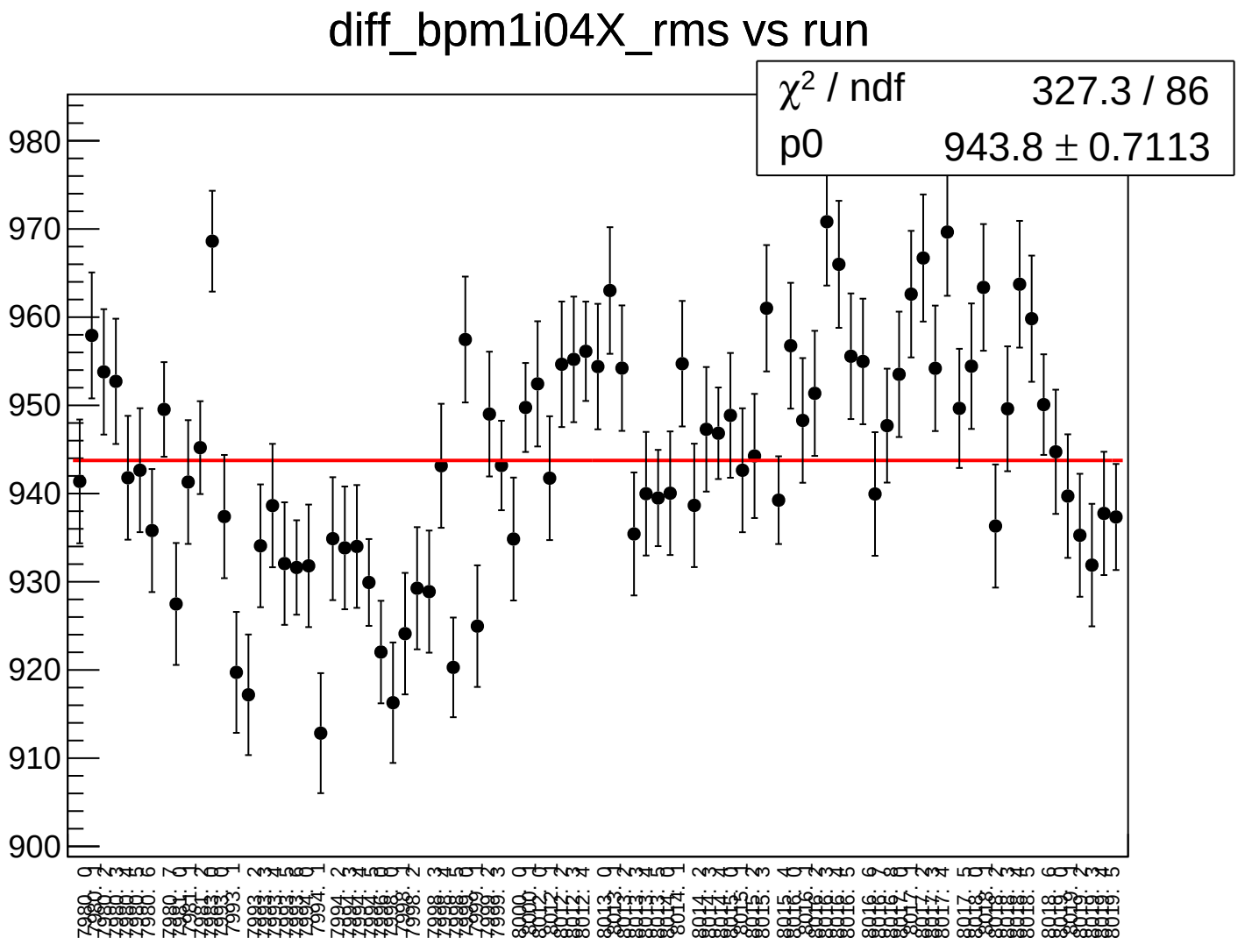

diff_bpm1i02Y_mean vs run
χ² / ndf 274.4 / 86
p0 21.77 ± 0.5251
pull
Entries 87
Mean 572
Std Dev 0

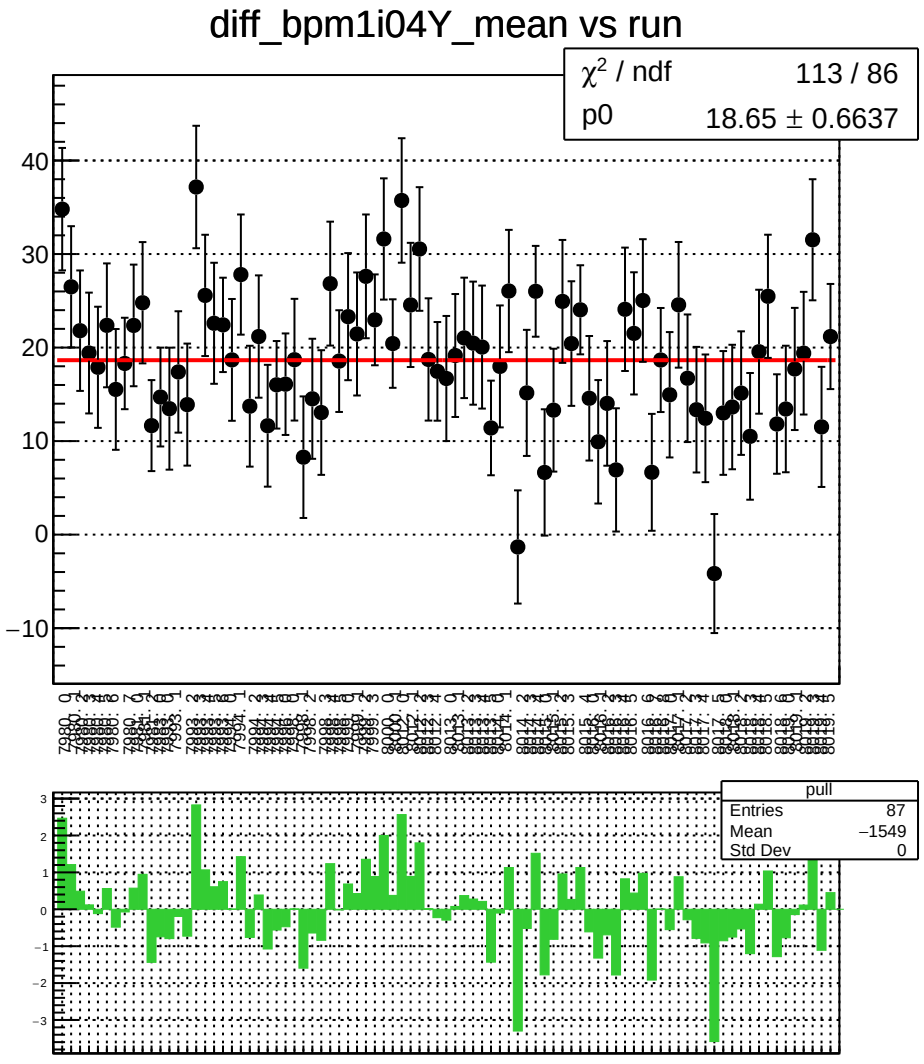

pull1D
Entries 87
Mean −0.01536
Std Dev 1.776

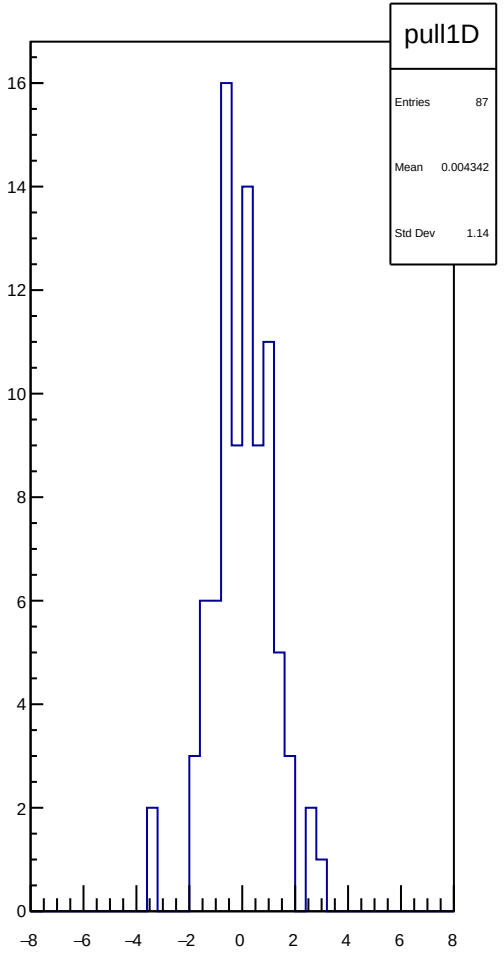

diff_bpm1i02Y_rms vs run
χ² / ndf 243.5 / 86
p0 492.6 ± 0.3713
515
510
505
500
495
490
485
480
475

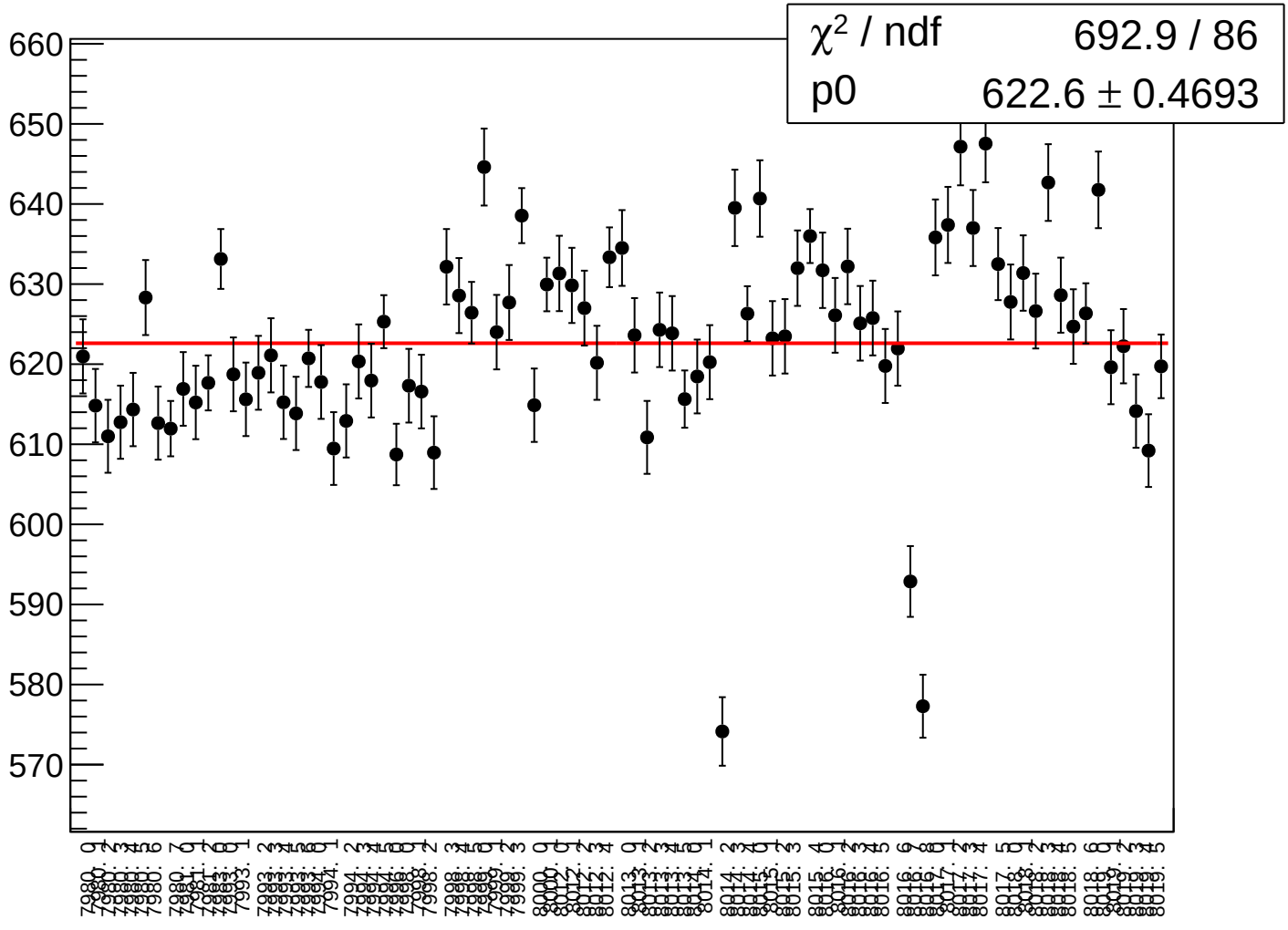

diff_bpm1i04X_mean vs run
χ^2 / ndf 349.7 / 86
p0 48.45 ± 1.006
pull
Entries 87
Mean 702.7
Std Dev 0

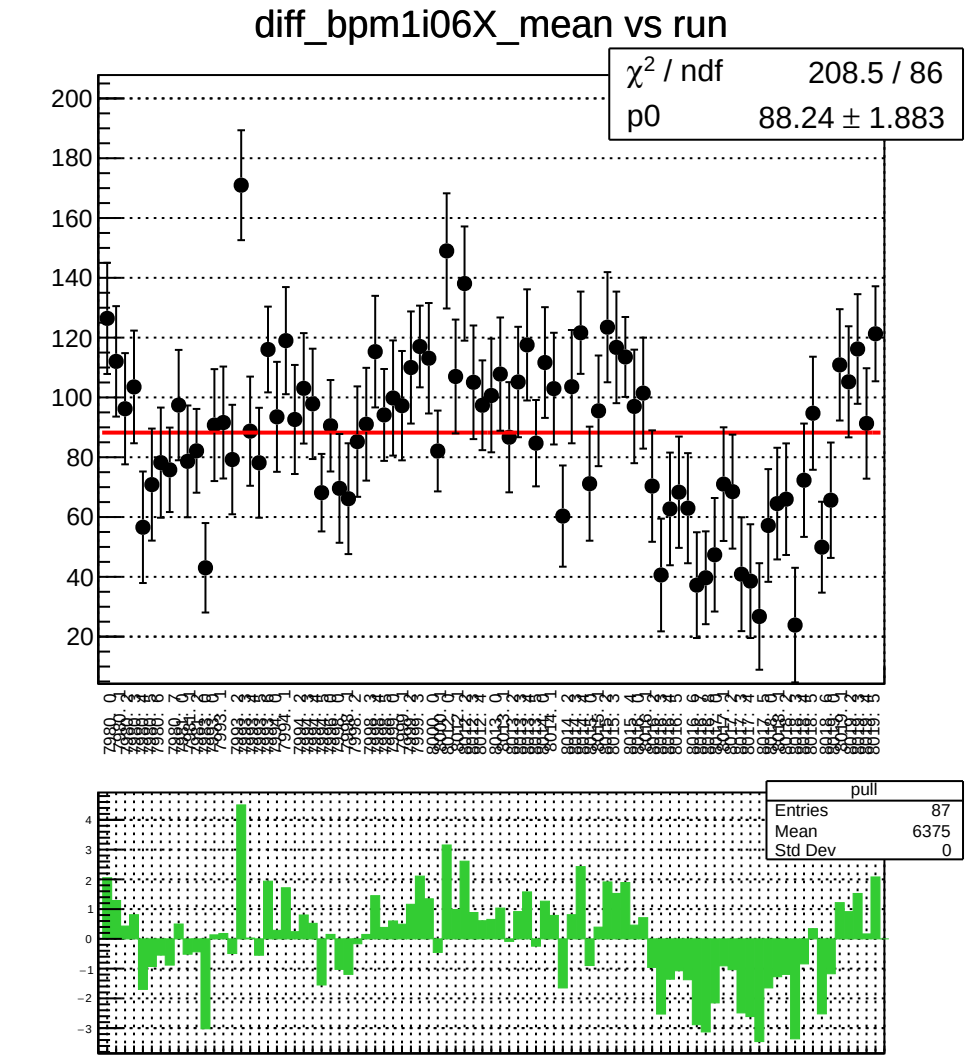

pull1D
Entries 87
Mean −0.02239
Std Dev 2.005

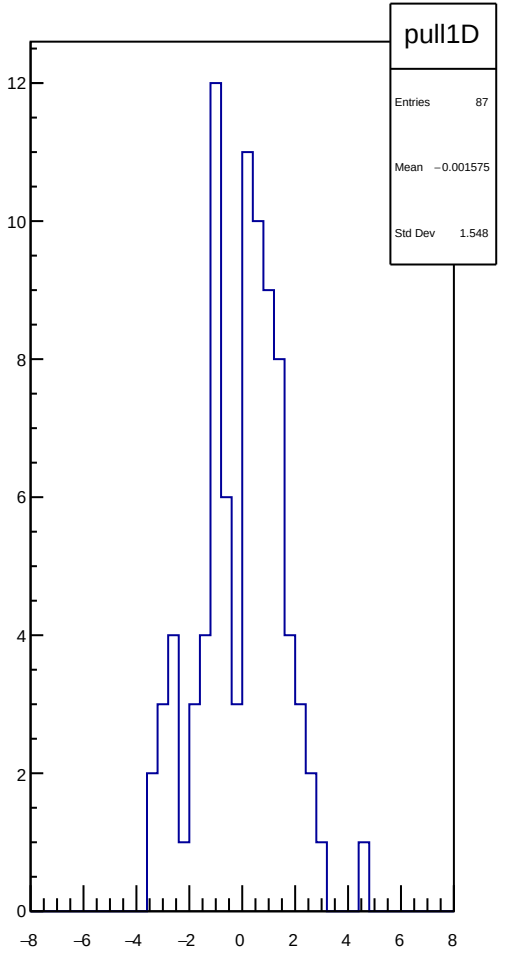

diff_bpm1i04X_rms vs run
χ² / ndf 327.3 / 86
p0 943.8 ± 0.7113
980
970
960
950
940
930
920
910
900

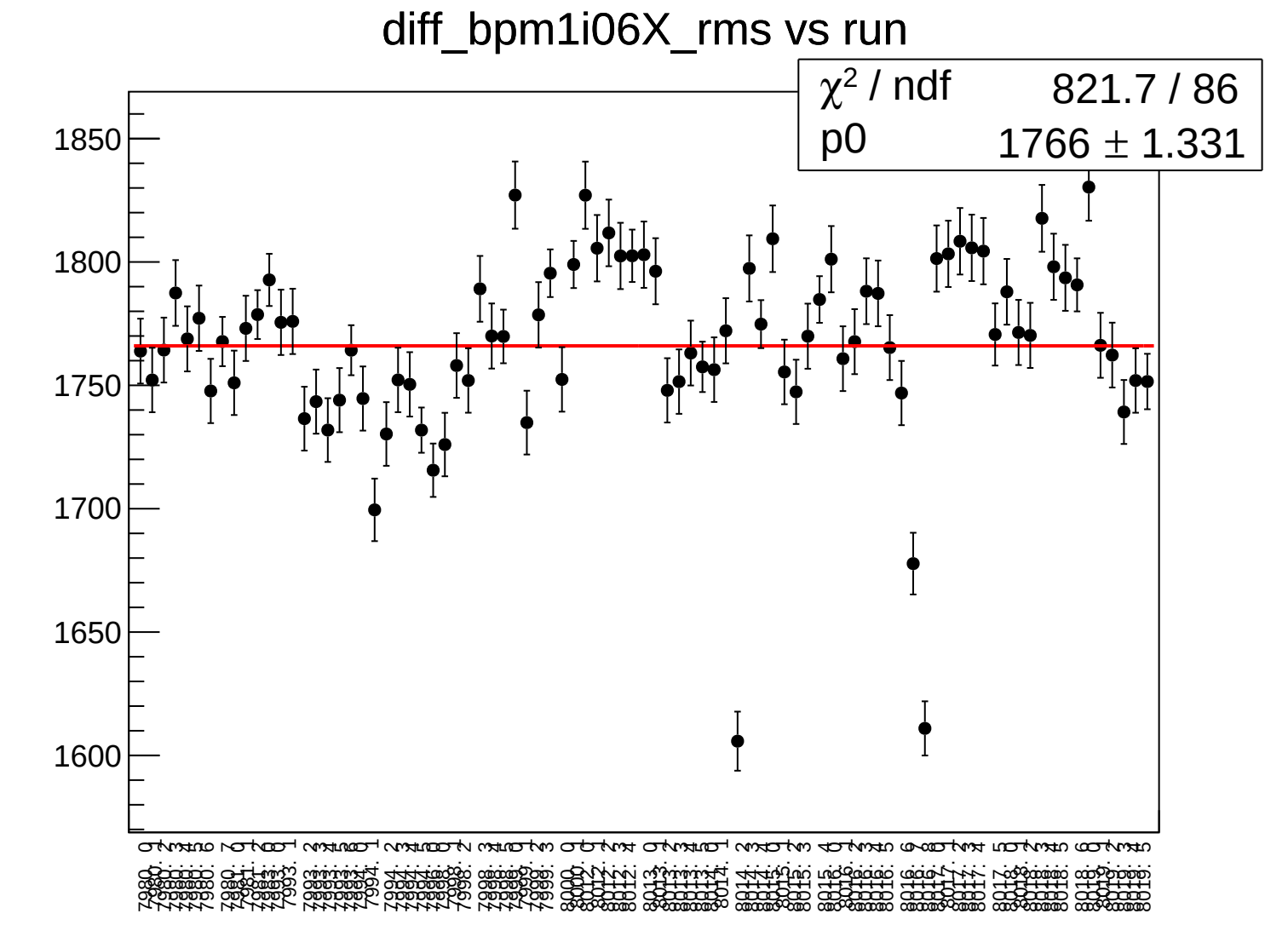

diff_bpm1i04Y_mean vs run
χ² / ndf 113 / 86
p0 18.65 ± 0.6637
pull
Entries 87
Mean −1549
Std Dev 0

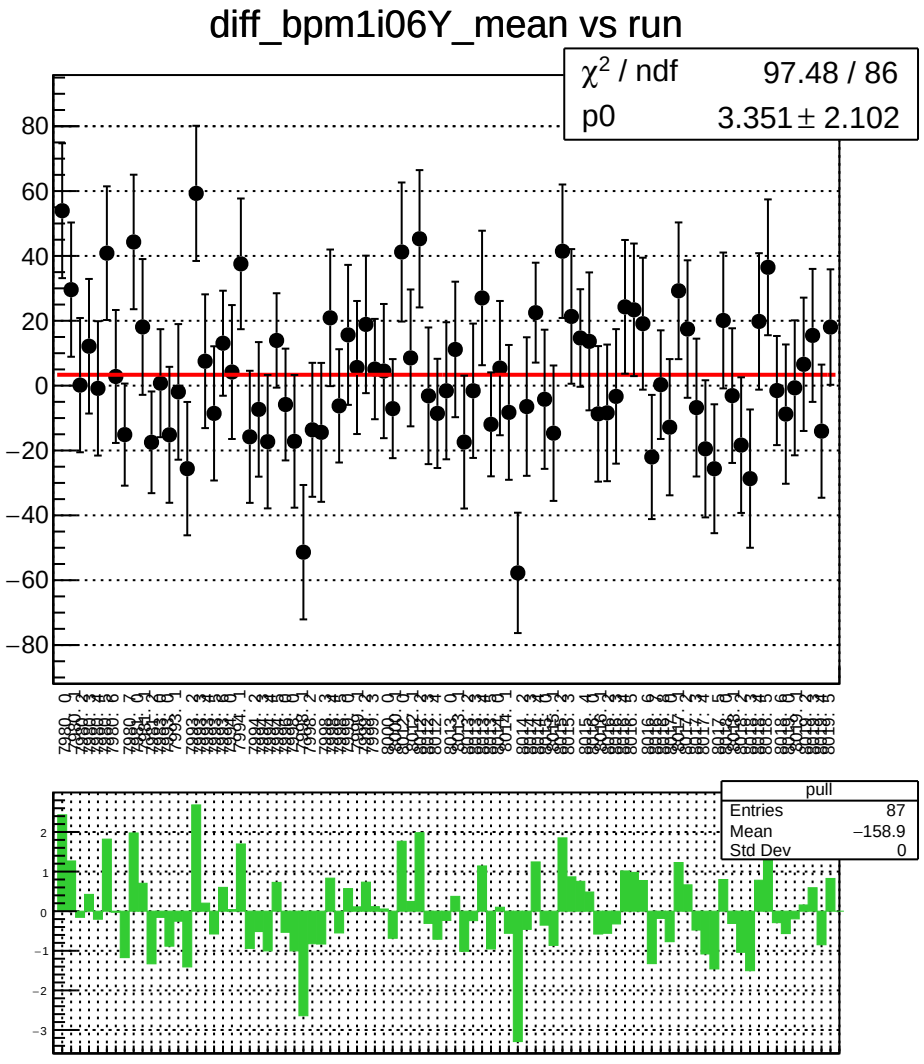

pull1D
Entries 87
Mean 0.004342
Std Dev 1.14

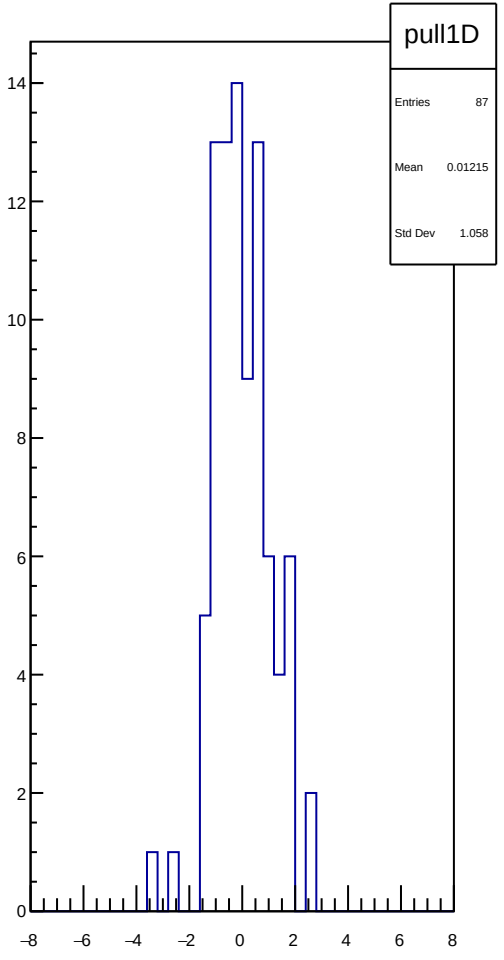

diff_bpm1i04Y_rms vs run
χ² / ndf 692.9 / 86
p0 622.6 ± 0.4693
660
650
640
630
620
610
600
590
580
570

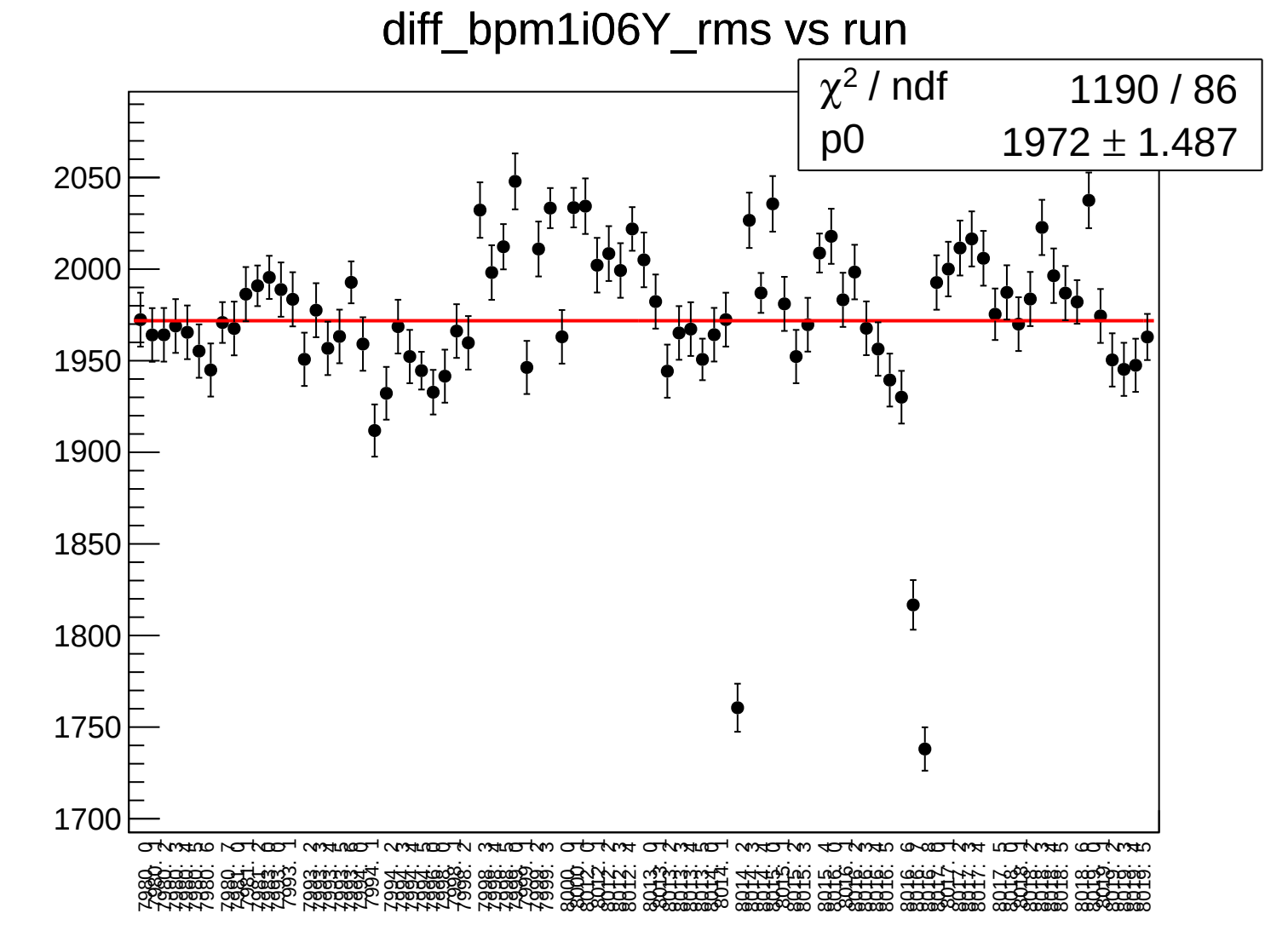

diff_bpm1i06X_mean vs run
χ² / ndf 208.5 / 86
p0 88.24 ± 1.883
pull
Entries 87
Mean 6375
Std Dev 0

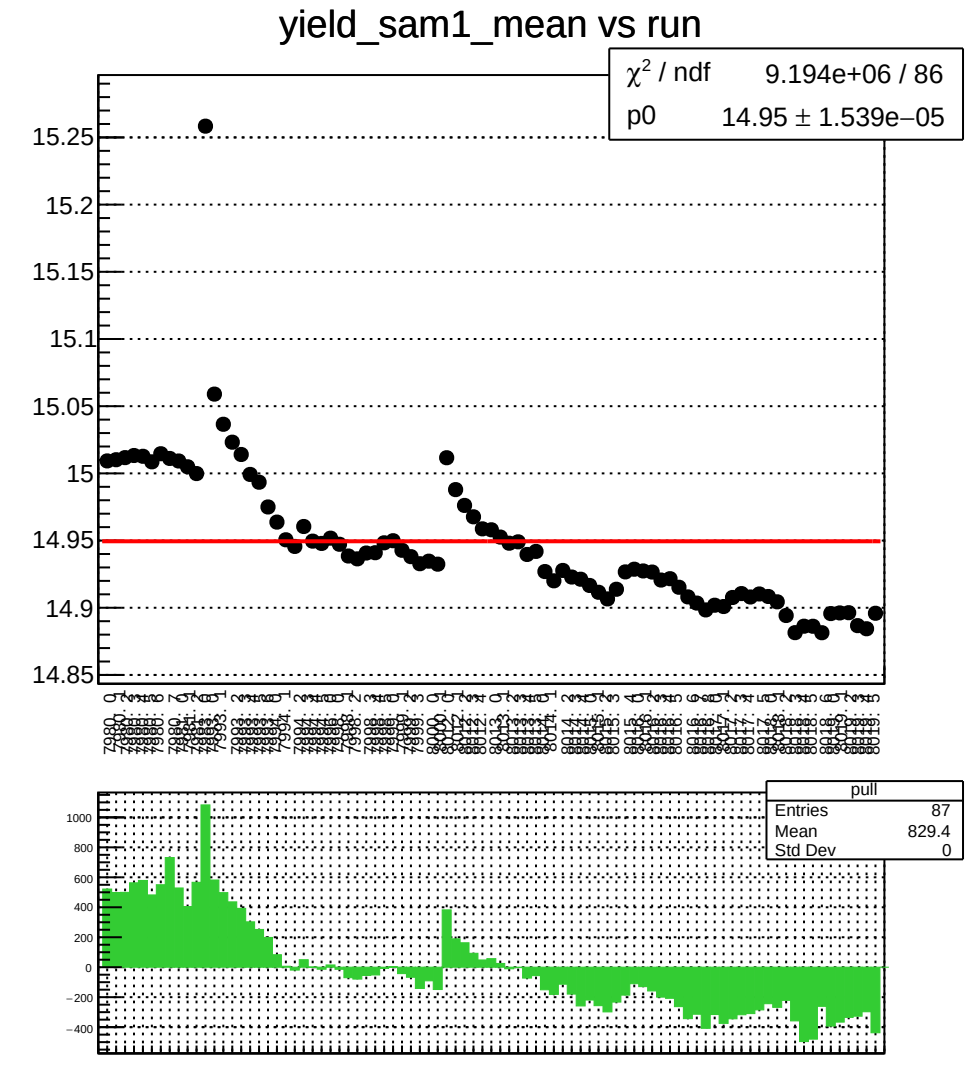

pull1D
Entries 87
Mean −0.001575
Std Dev 1.548

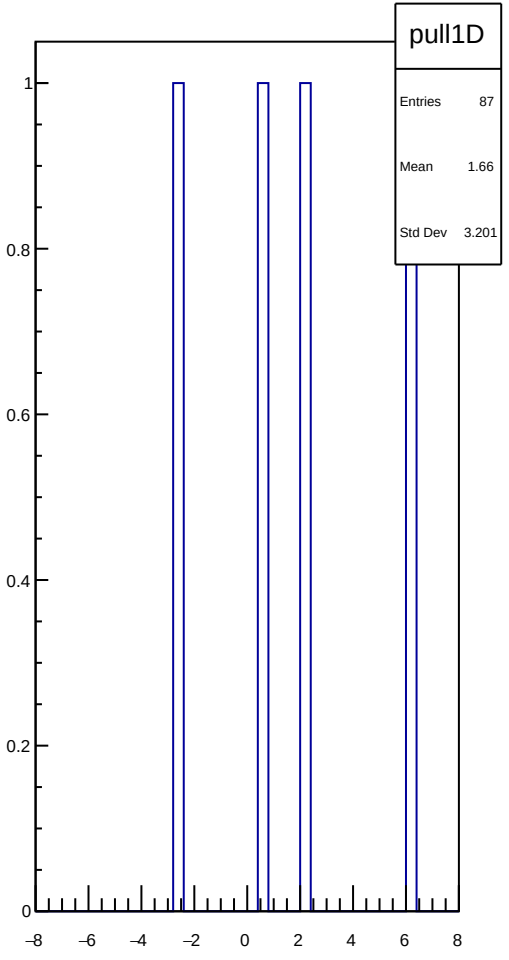

diff_bpm1i06X_rms vs run
χ^2 / ndf 821.7 / 86
p0 1766 ± 1.331
1850
1800
1750
1700
1650
1600

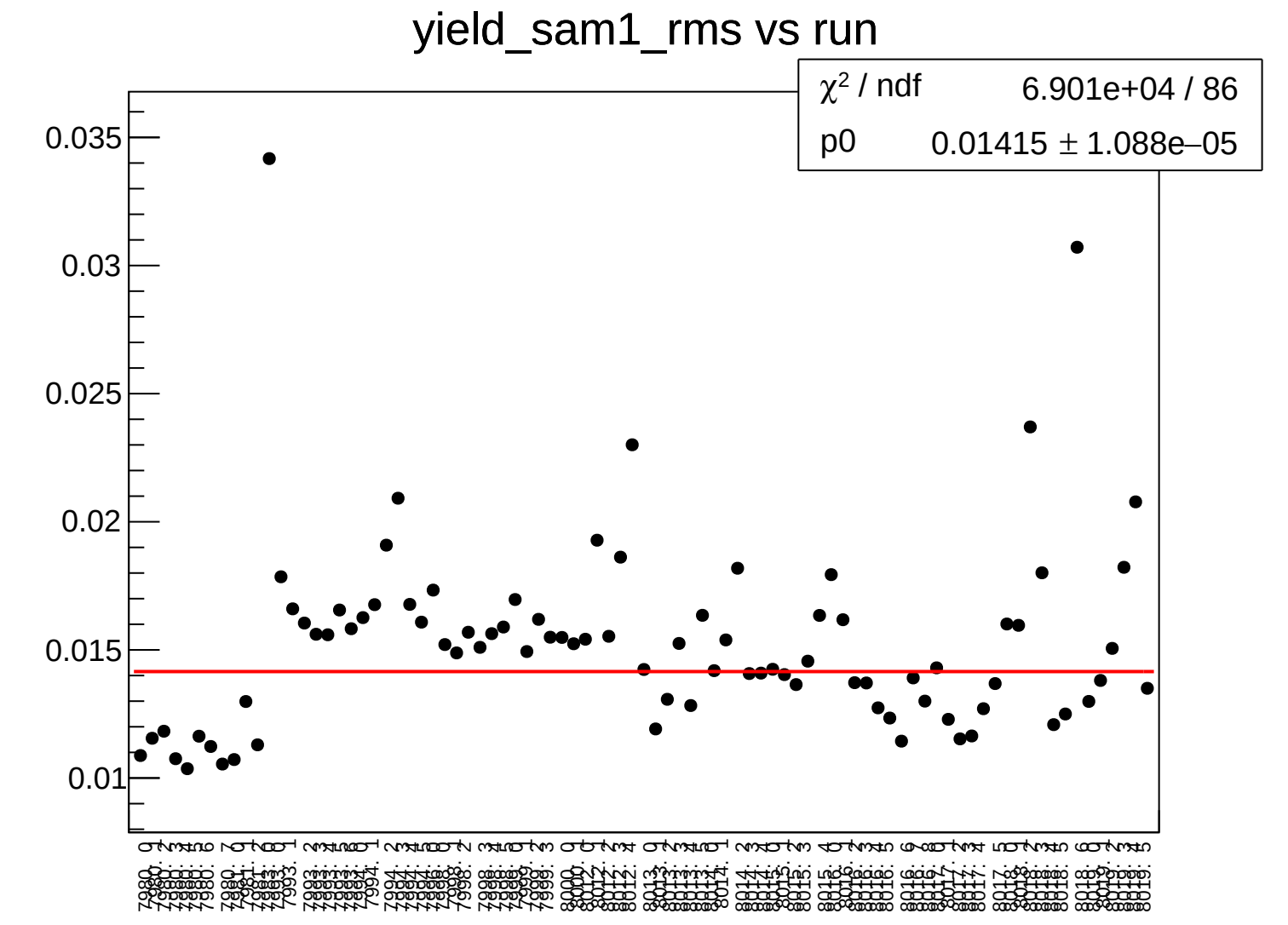

diff_bpm1i06Y_mean vs run
χ² / ndf 97.48 / 86
p0 3.351 ± 2.102
pull
Entries 87
Mean −158.9
Std Dev 0

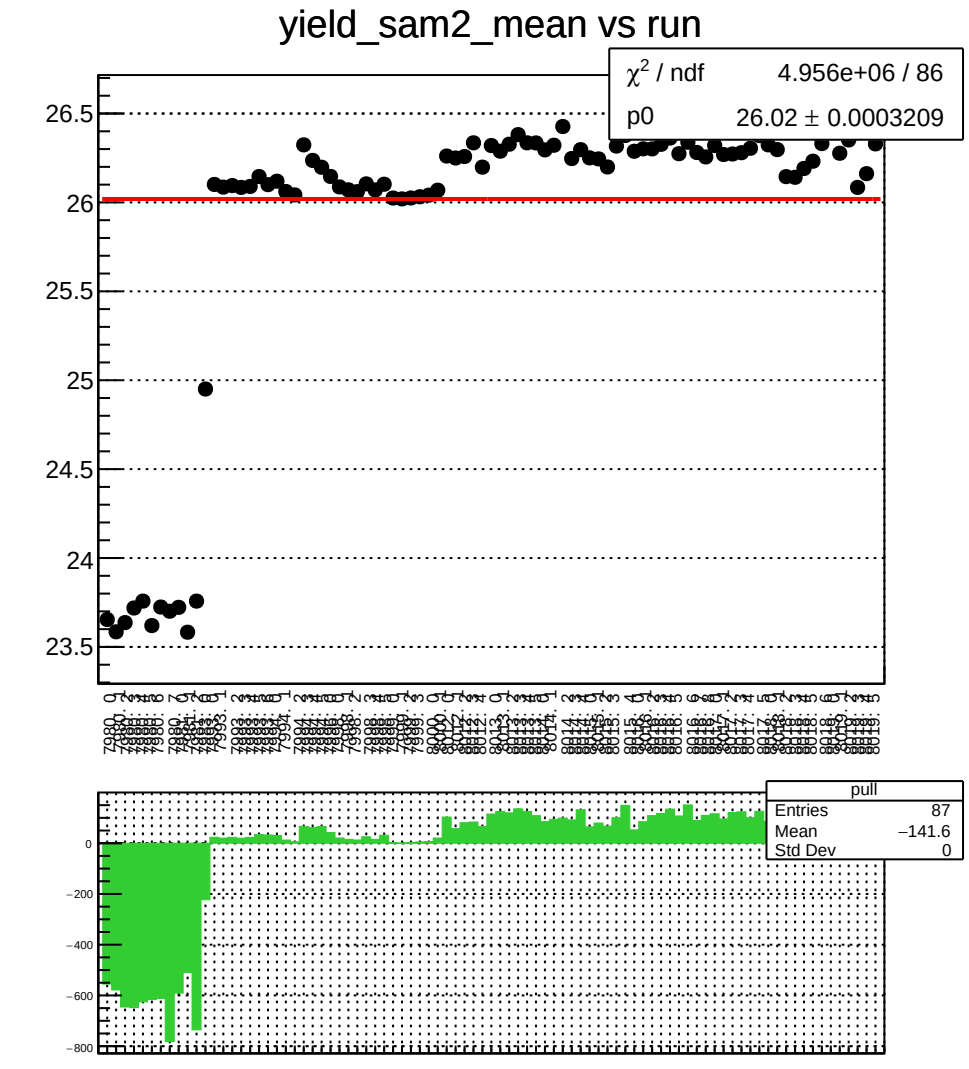

pull1D
Entries 87
Mean 0.01215
Std Dev 1.058

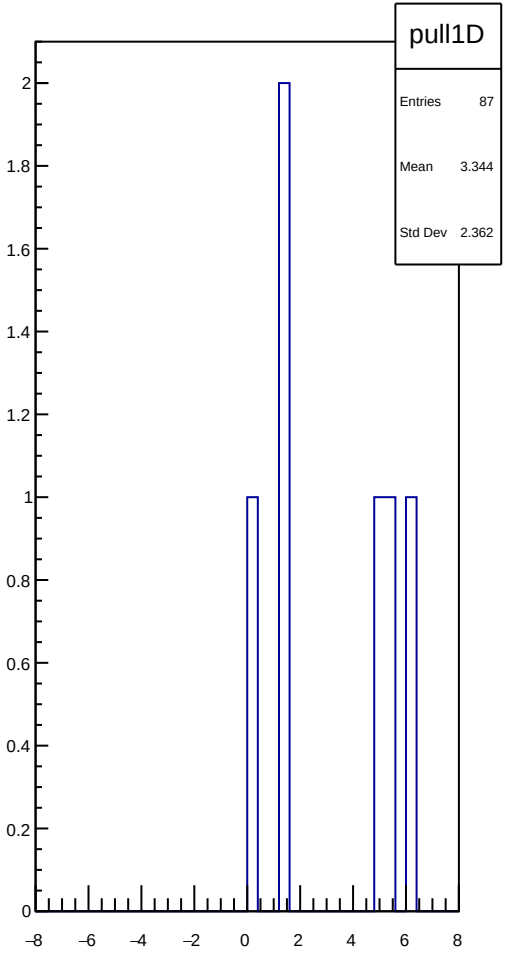

diff_bpm1i06Y_rms vs run
χ^2 / ndf 1190 / 86
p0 1972 ± 1.487
2050
2000
1950
1900
1850
1800
1750
1700

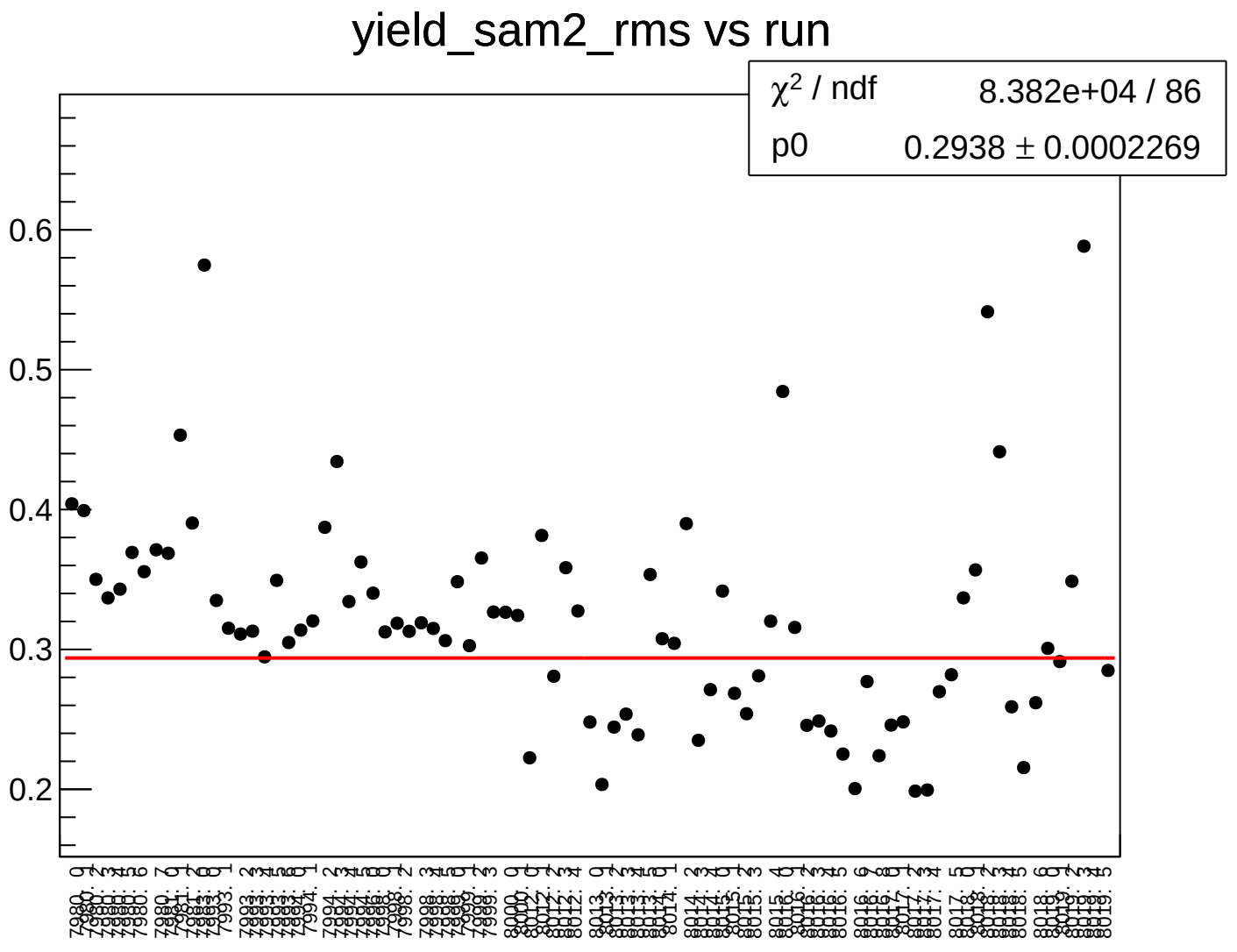

yield_sam1_mean vs run
χ² / ndf 9.194e+06 / 86
p0 14.95 ± 1.539e−05
15.25
15.2
15.15
15.1
15.05
15
14.95
14.9
14.85
pull
Entries 87
Mean 829.4
Std Dev 0
1000
800
600
400
200
0
−200
−400

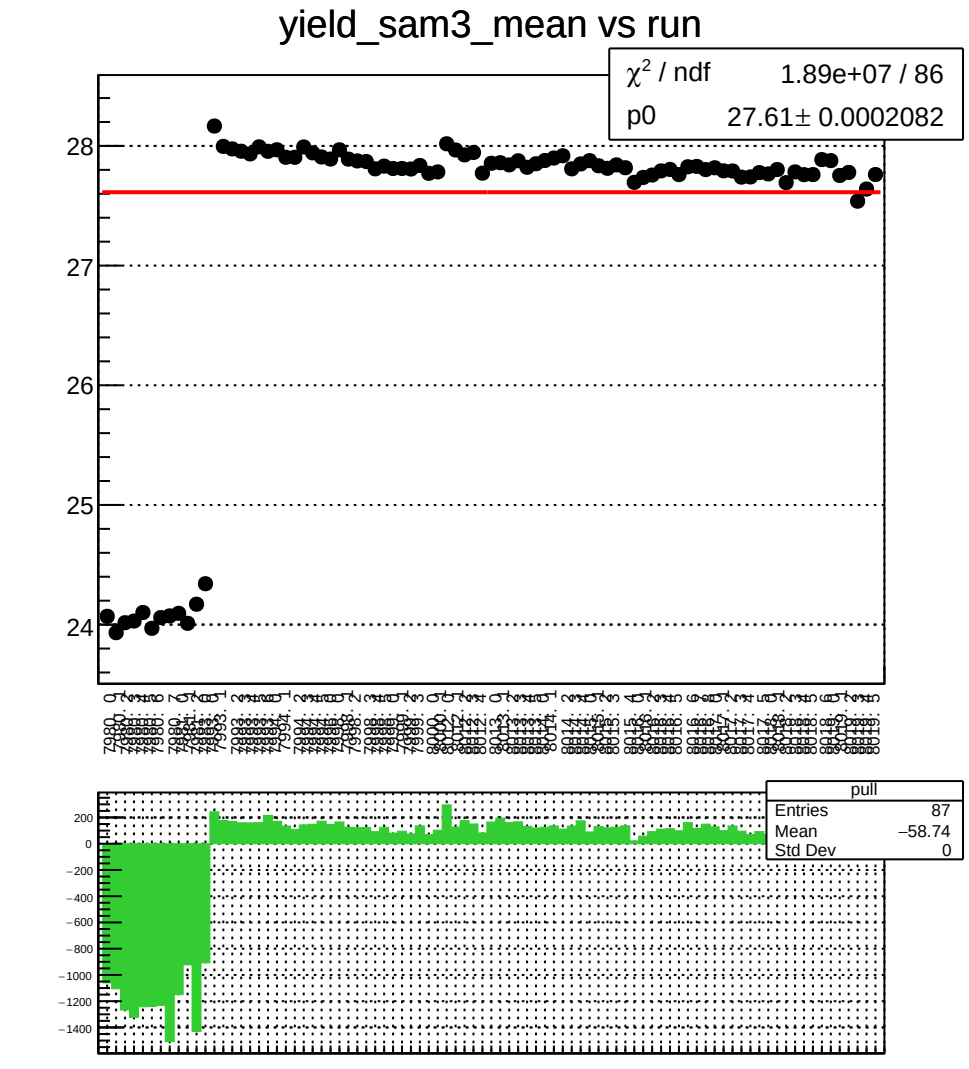

pull1D
Entries 87
Mean 1.66
Std Dev 3.201
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

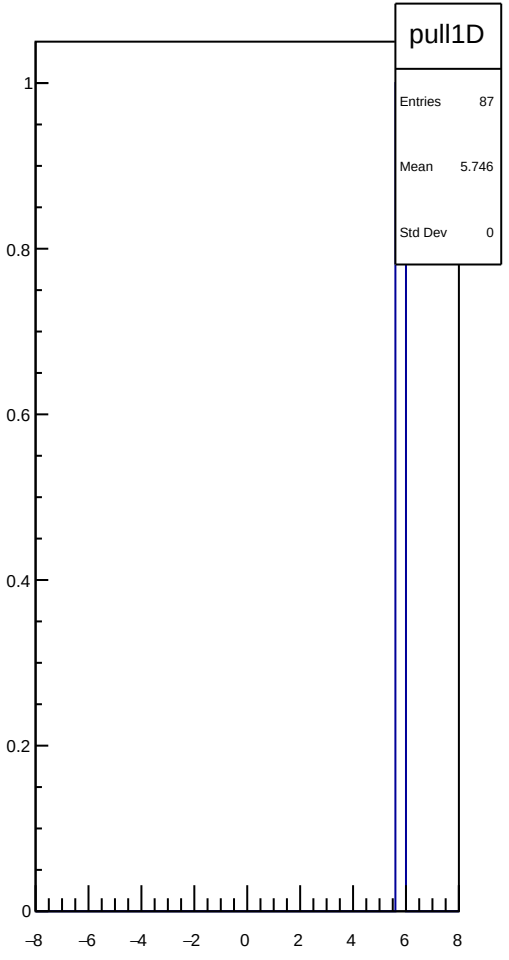

yield_sam1_rms vs run
χ² / ndf 6.901e+04 / 86
p0 0.01415 ± 1.088e–05
0.035
0.03
0.025
0.02
0.015
0.01

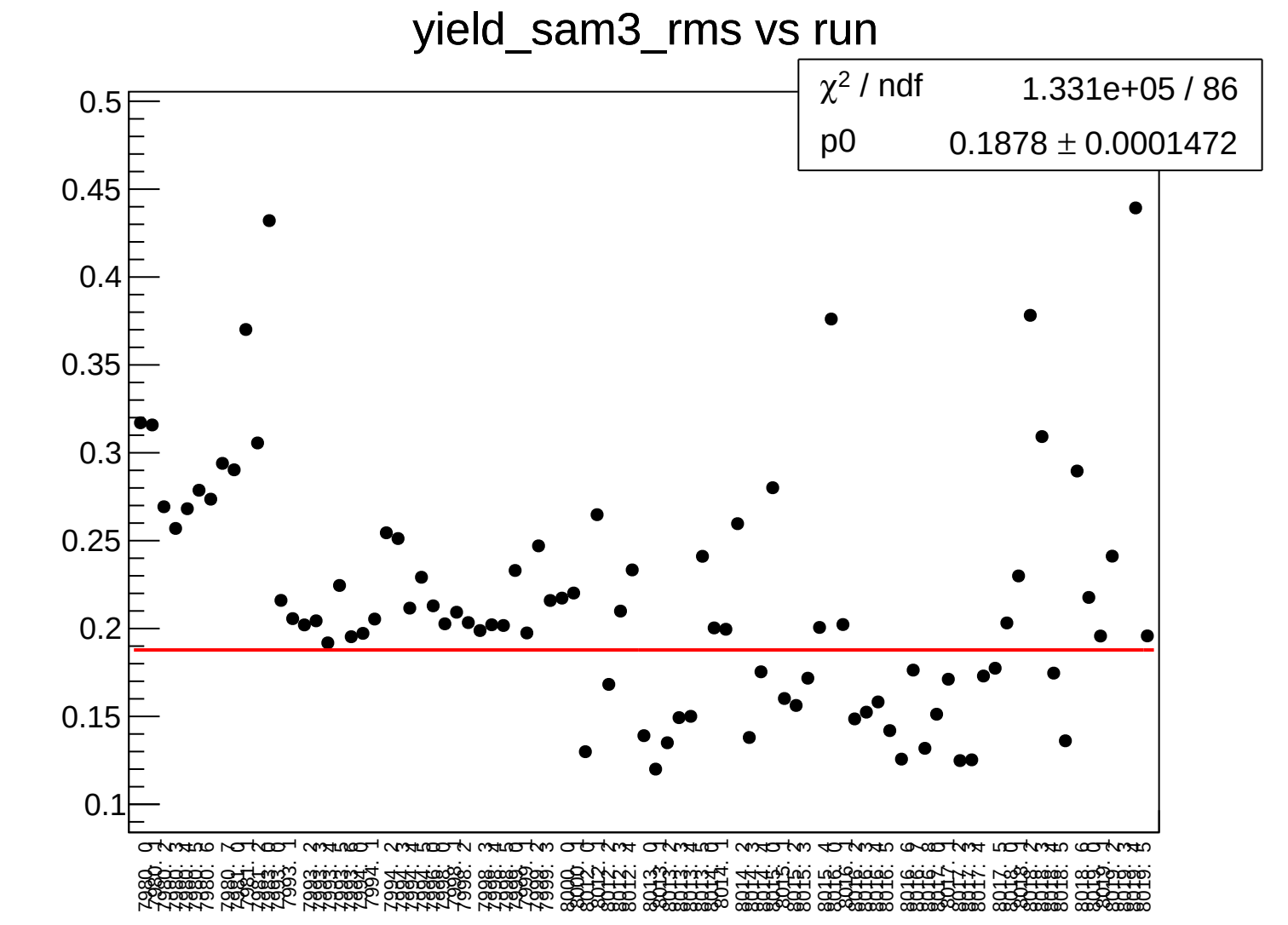

yield_sam2_mean vs run
χ² / ndf 4.956e+06 / 86
p0 26.02 ± 0.0003209
pull
Entries 87
Mean −141.6
Std Dev 0

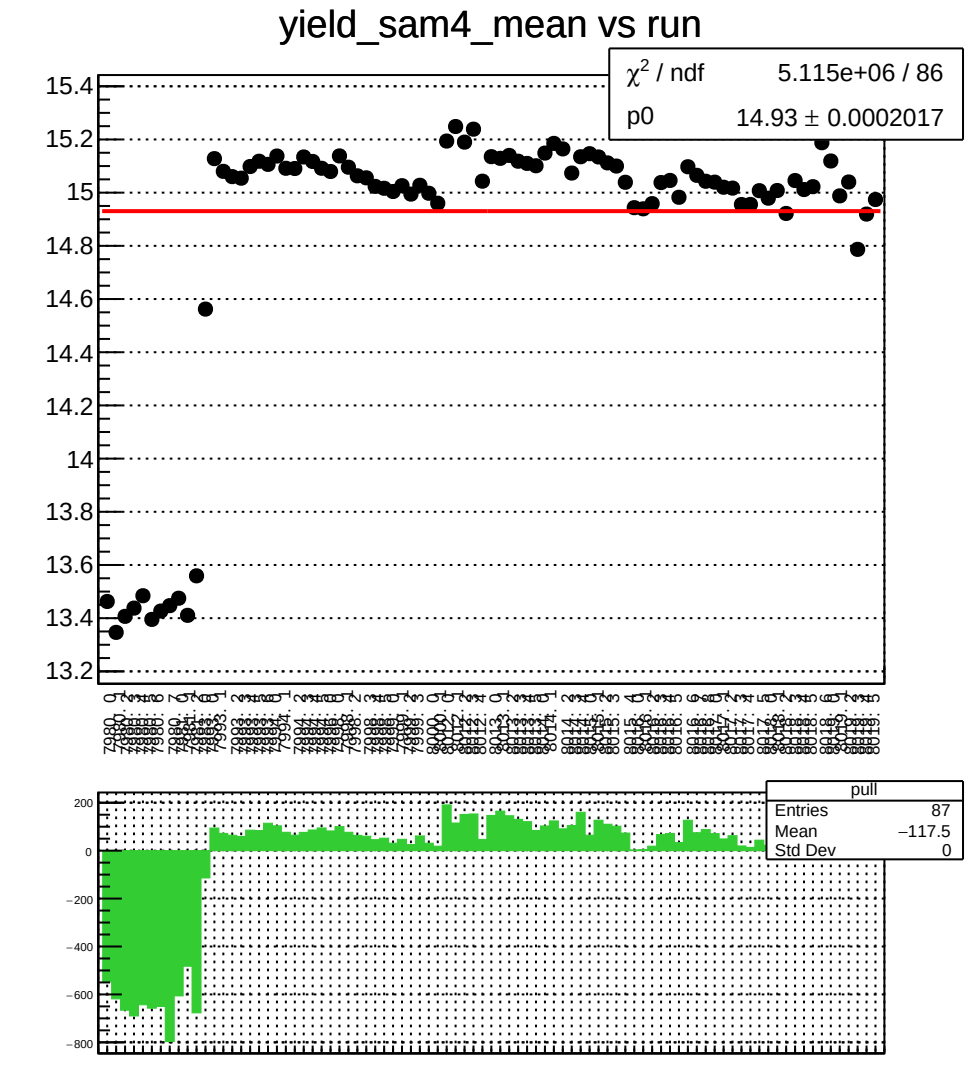

pull1D
Entries 87
Mean 3.344
Std Dev 2.362

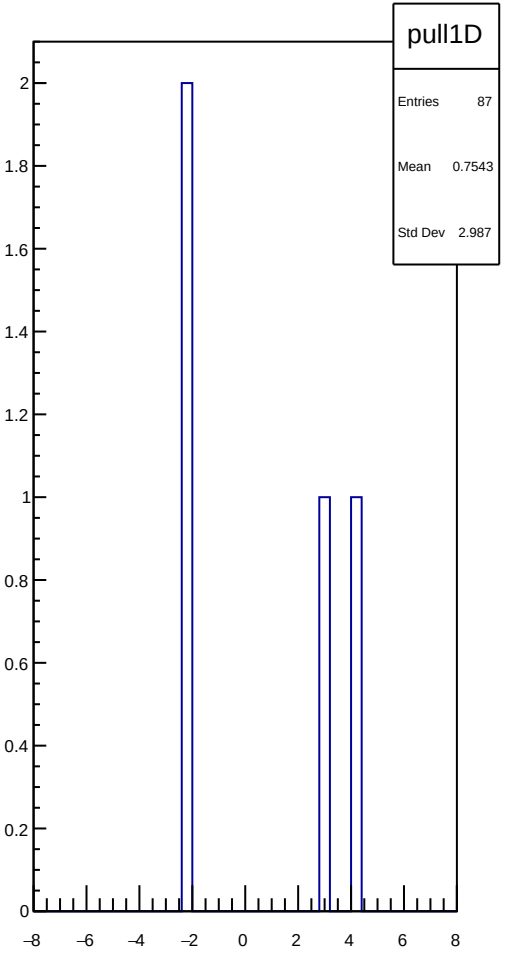

yield_sam2_rms vs run
χ² / ndf 8.382e+04 / 86
p0 0.2938 ± 0.0002269
0.6
0.5
0.4
0.3
0.2

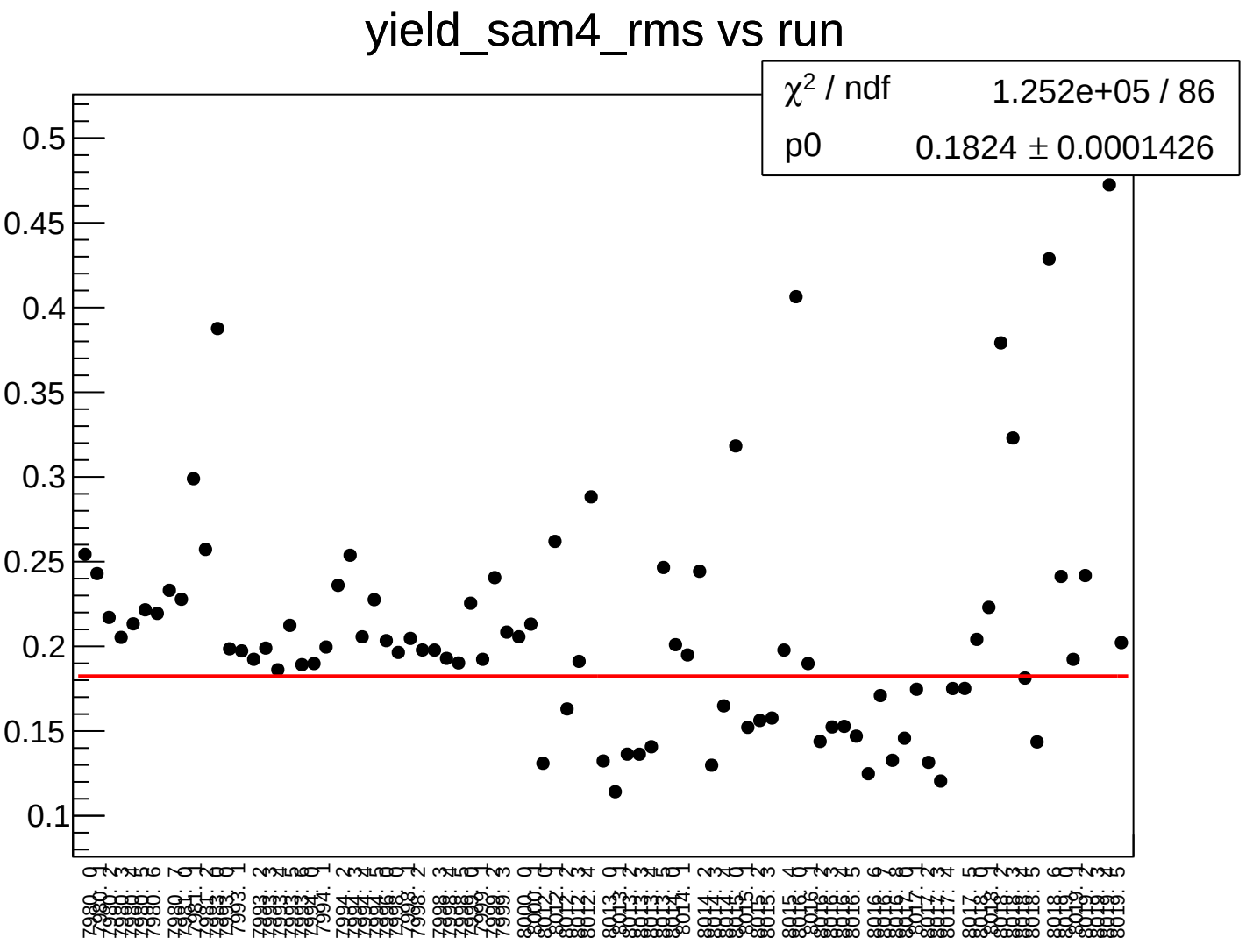

yield_sam3_mean vs run
χ² / ndf 1.89e+07 / 86
p0 27.61± 0.0002082
28
27
26
25
24
pull
Entries 87
Mean −58.74
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400

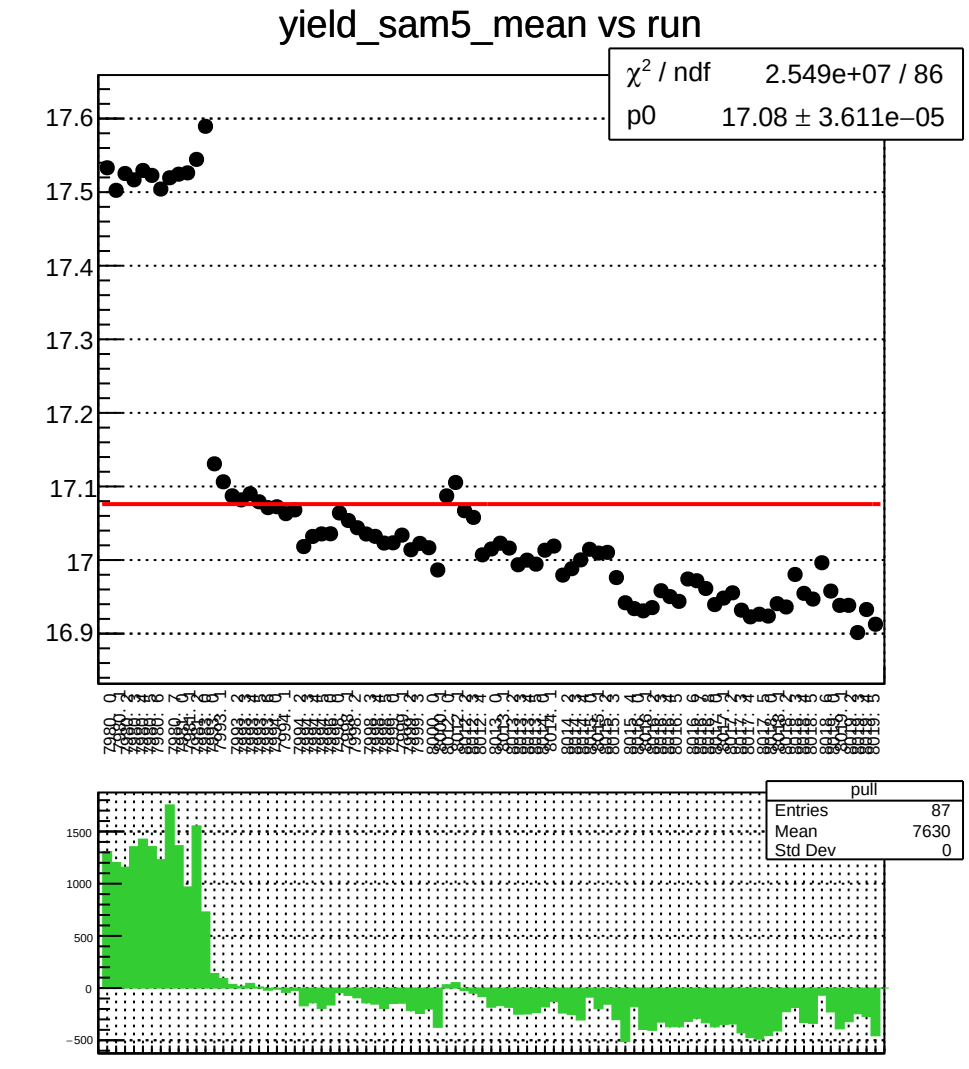

pull1D
Entries 87
Mean 5.746
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

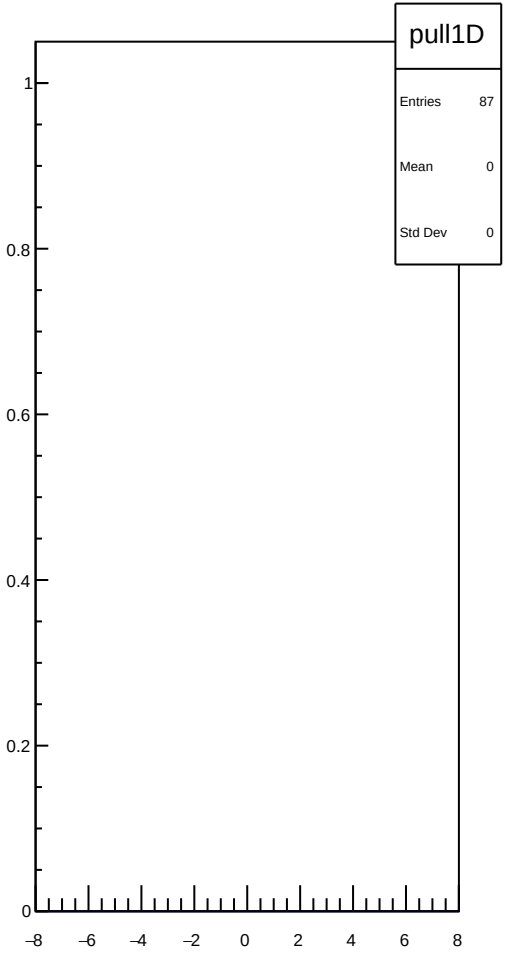

yield_sam3_rms vs run
χ² / ndf 1.331e+05 / 86
p0 0.1878 ± 0.0001472
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

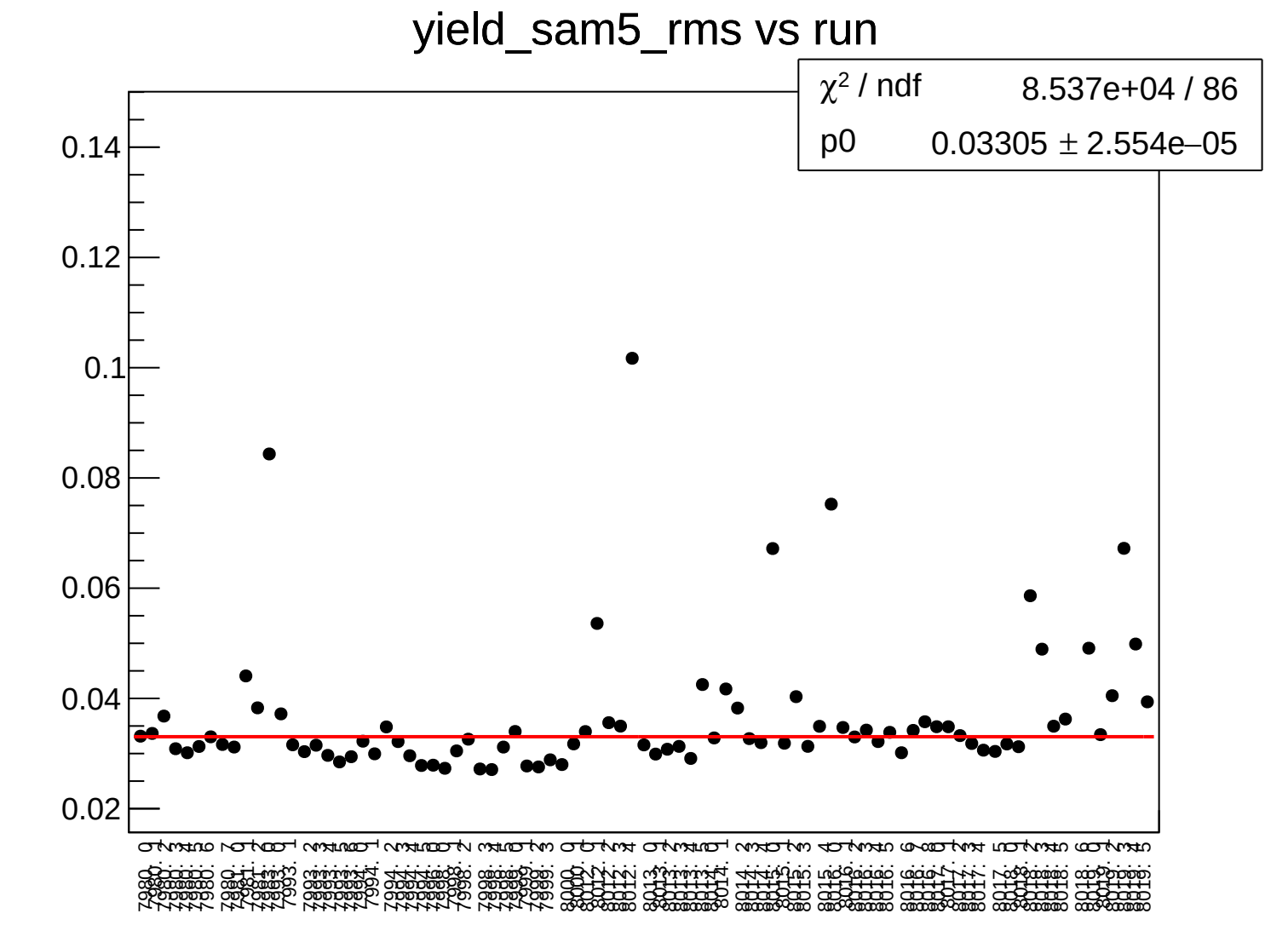

yield_sam4_mean vs run
χ² / ndf 5.115e+06 / 86
p0 14.93 ± 0.0002017
pull
Entries 87
Mean −117.5
Std Dev 0

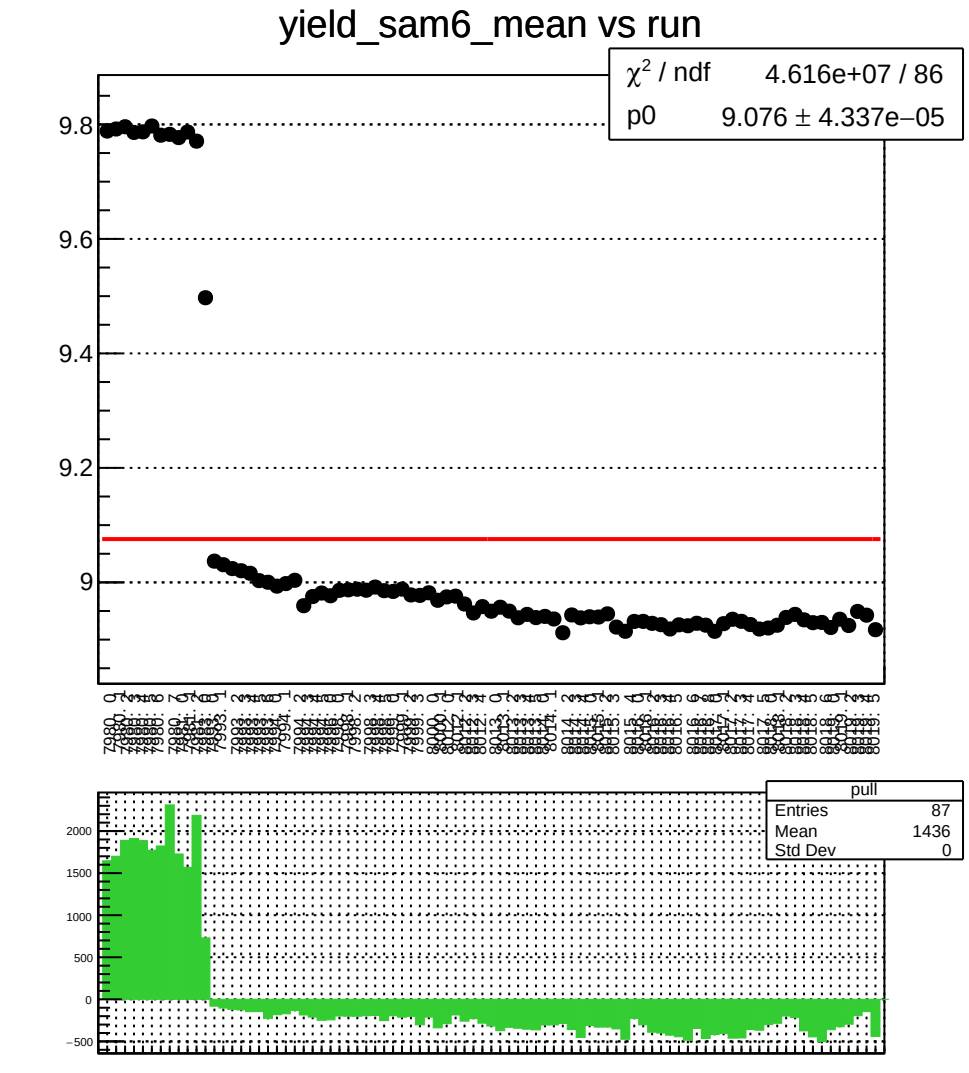

pull1D
Entries 87
Mean 0.7543
Std Dev 2.987

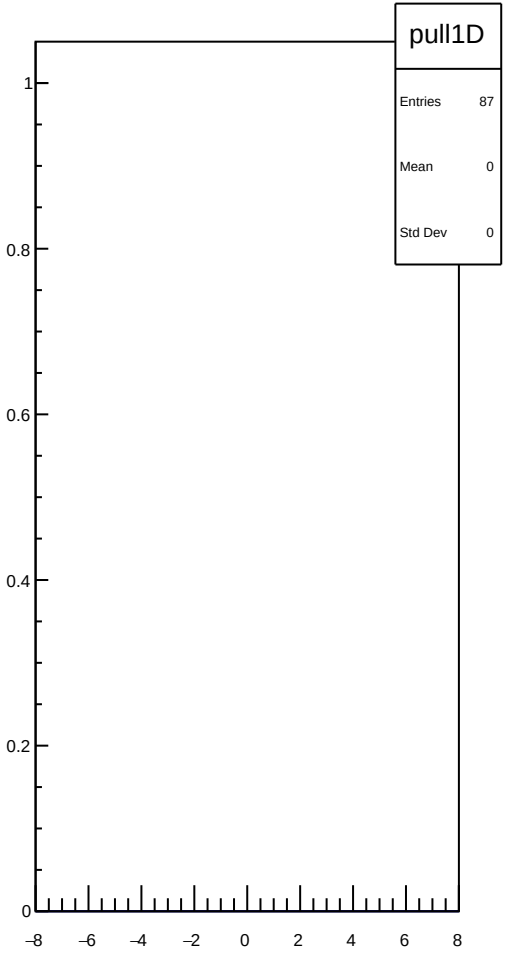

yield_sam4_rms vs run
χ² / ndf 1.252e+05 / 86
p0 0.1824 ± 0.0001426
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

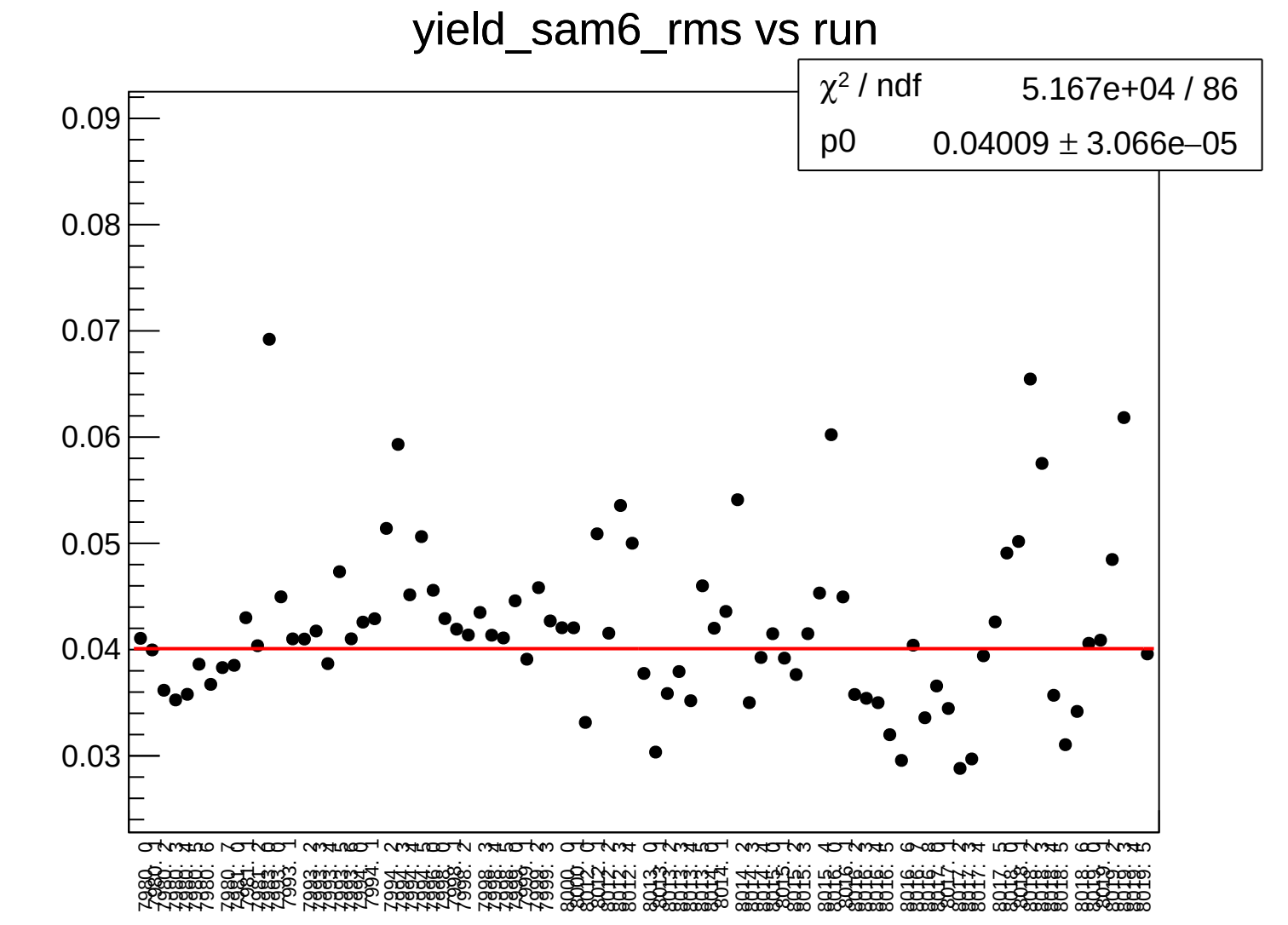

yield_sam5_mean vs run
χ² / ndf 2.549e+07 / 86
p0 17.08 ± 3.611e−05
17.6
17.5
17.4
17.3
17.2
17.1
17
16.9
pull
Entries 87
Mean 7630
Std Dev 0
1500
1000
500
0
−500

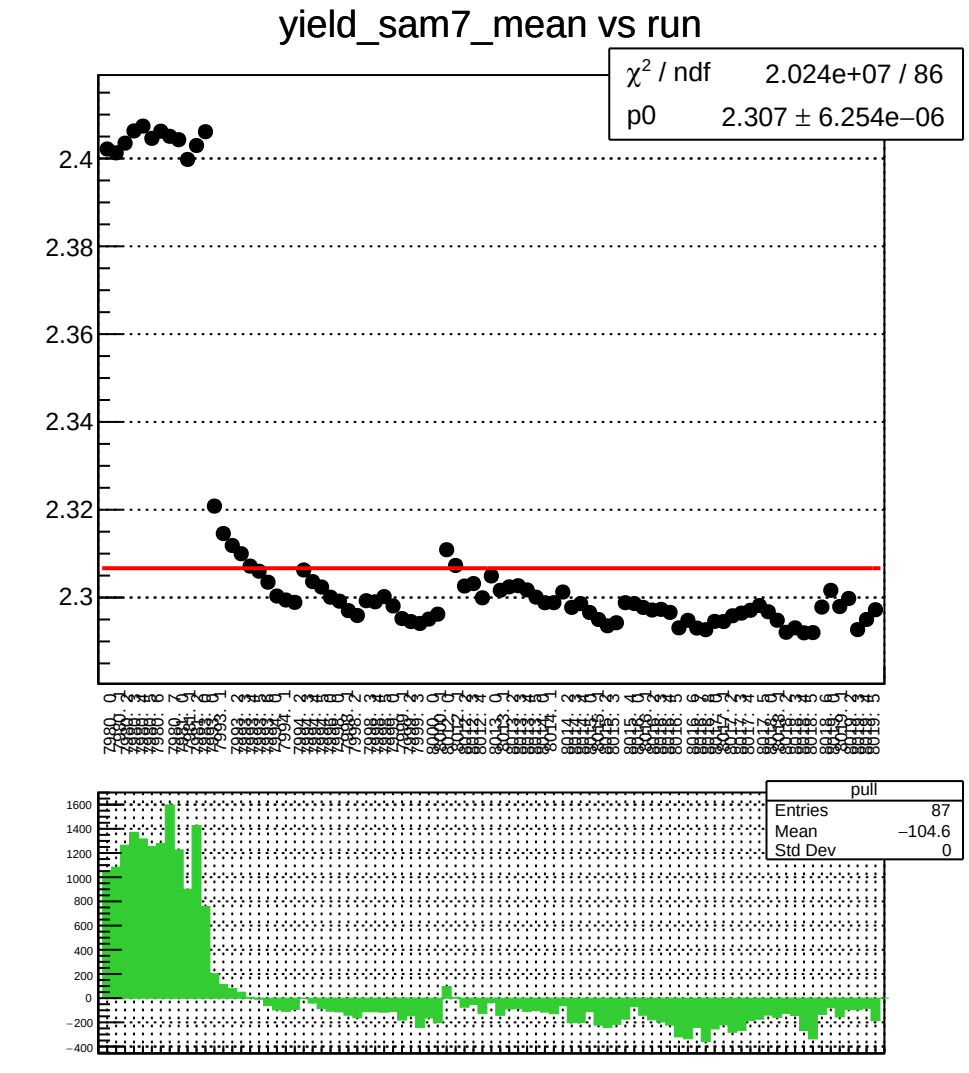

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

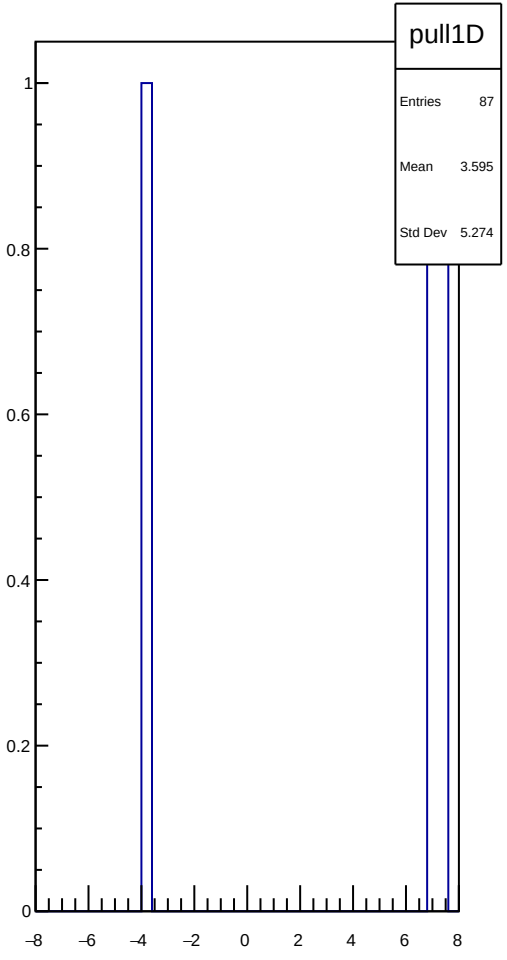

yield_sam5_rms vs run
χ² / ndf 8.537e+04 / 86
p0 0.03305 ± 2.554e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

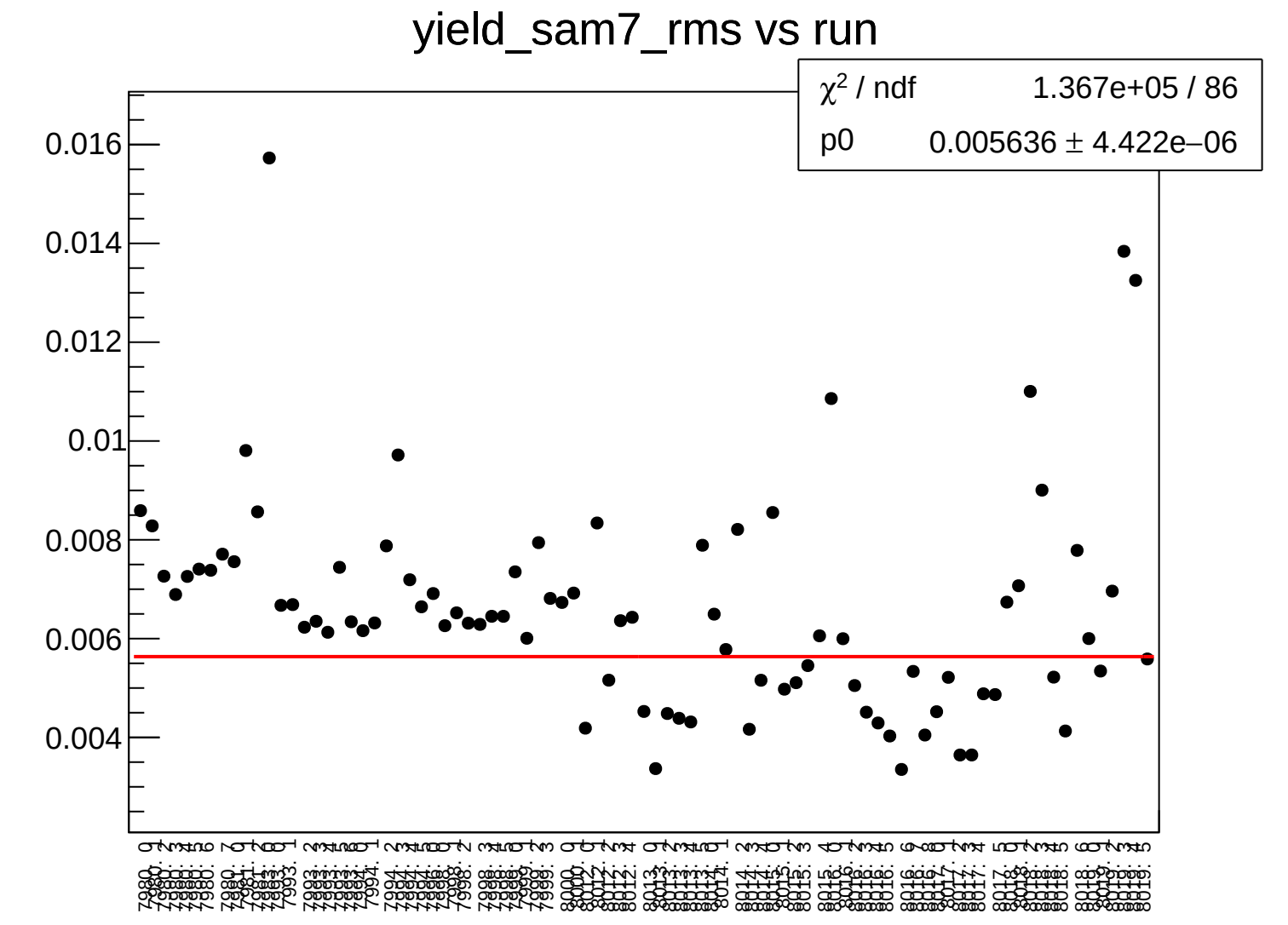

yield_sam6_mean vs run
χ² / ndf 4.616e+07 / 86
p0 9.076 ± 4.337e−05
9.8
9.6
9.4
9.2
9
pull
Entries 87
Mean 1436
Std Dev 0
2000
1500
1000
500
0
−500

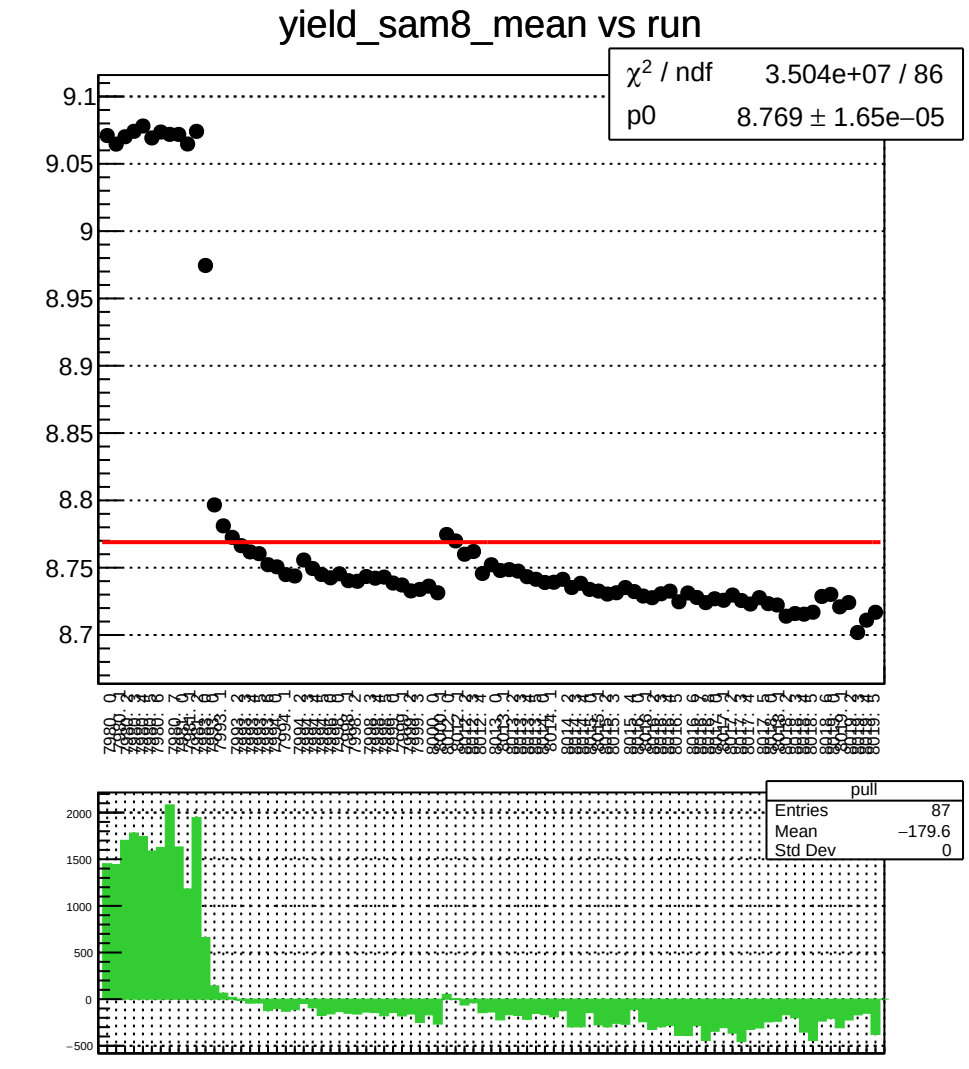

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

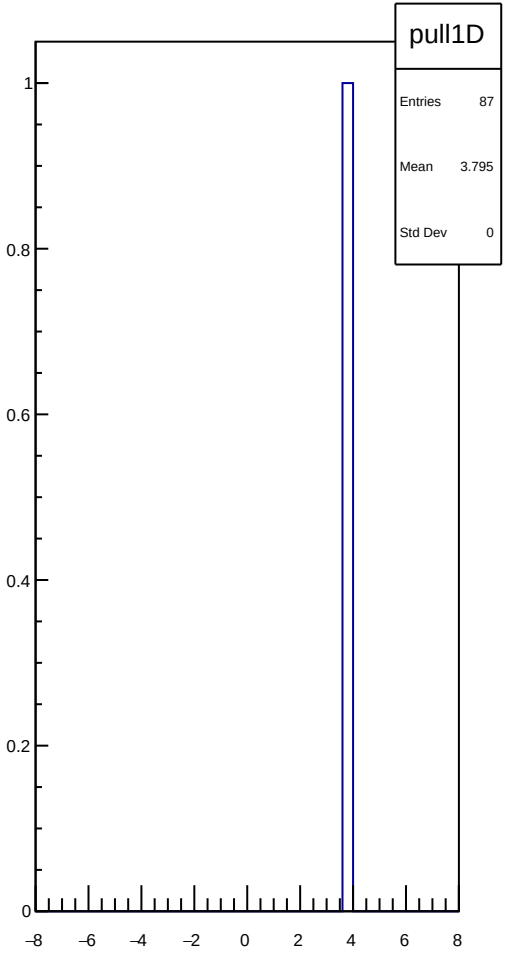

yield_sam6_rms vs run
χ² / ndf 5.167e+04 / 86
p0 0.04009 ± 3.066e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03

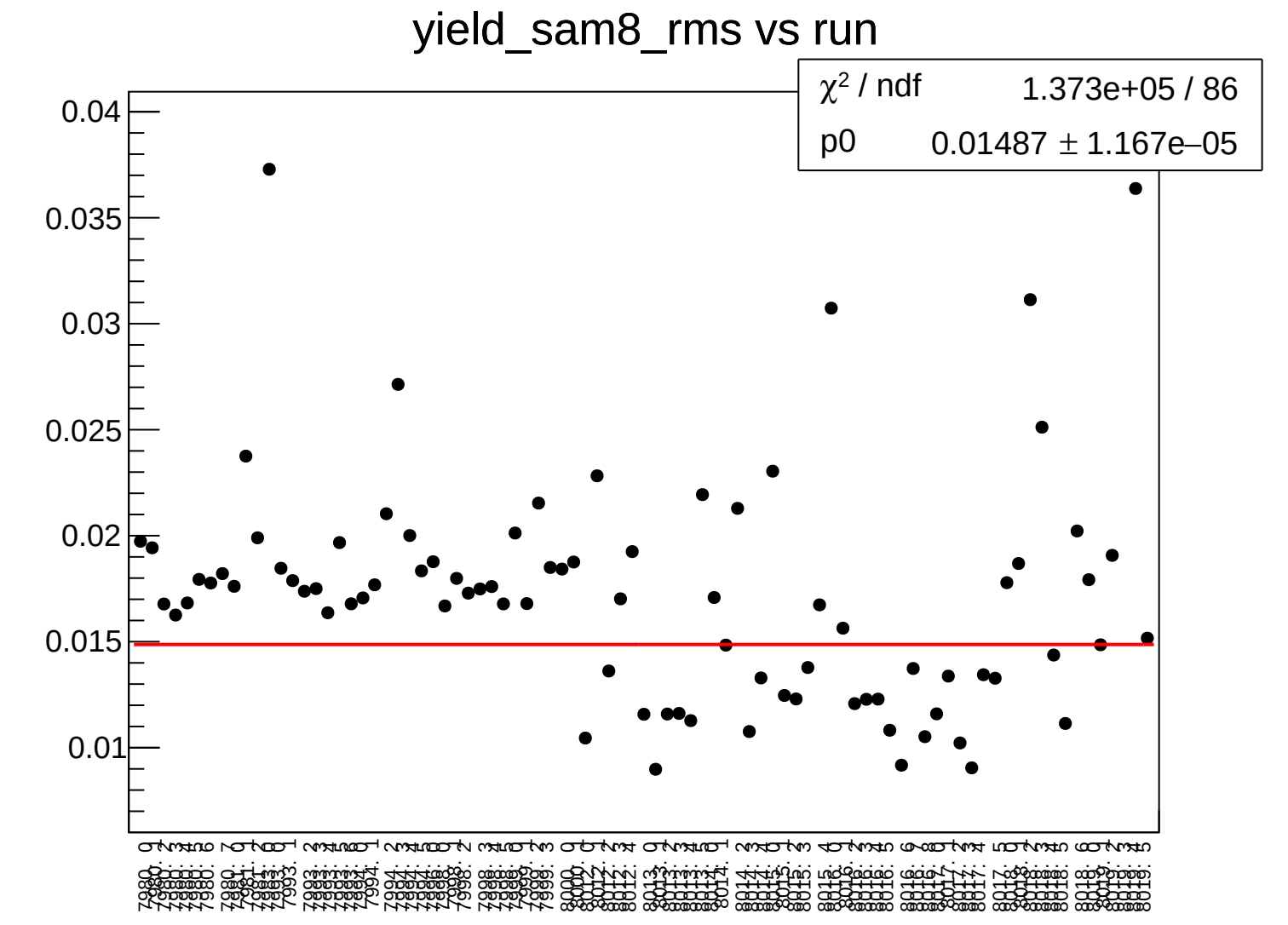

yield_sam7_mean vs run
χ² / ndf 2.024e+07 / 86
p0 2.307 ± 6.254e−06
2.4
2.38
2.36
2.34
2.32
2.3
pull
Entries 87
Mean −104.6
Std Dev 0
1600
1400
1200
1000
800
600
400
200
0
−200
−400

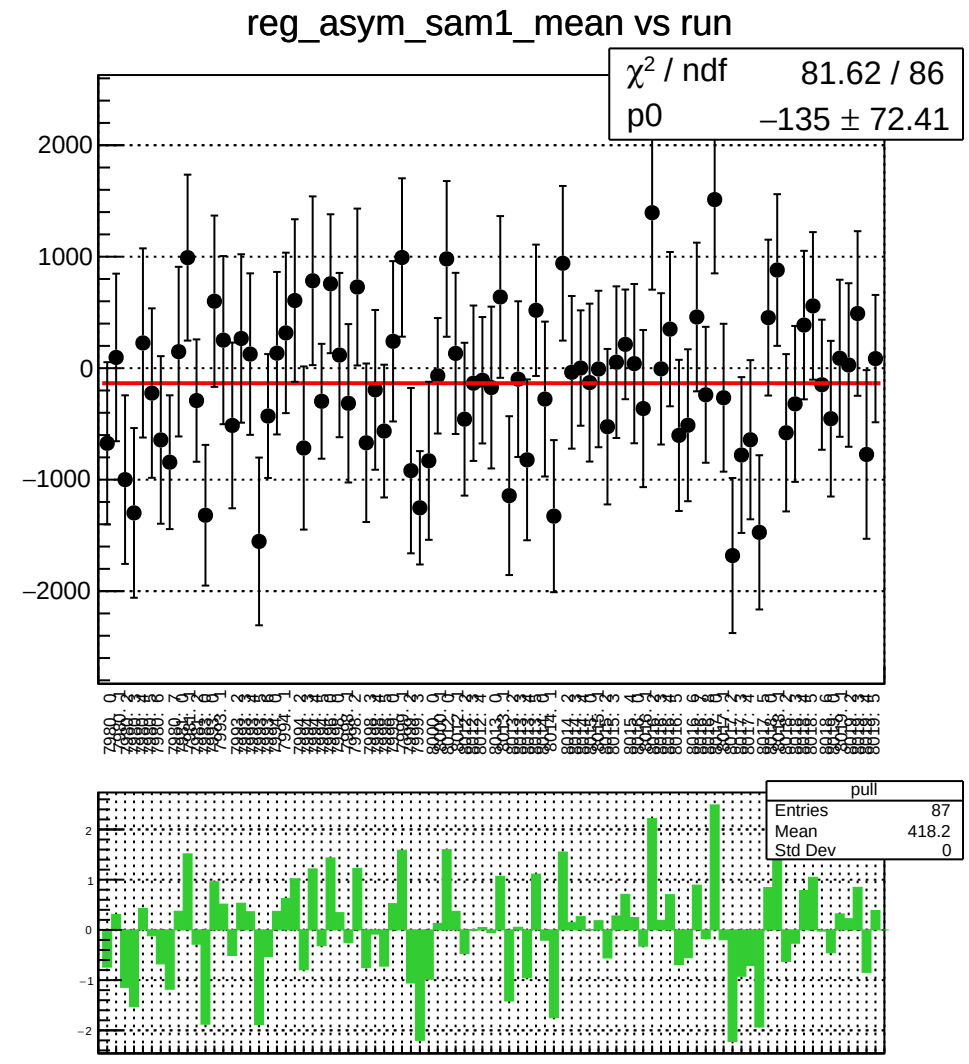

pull1D
Entries 87
Mean 3.595
Std Dev 5.274
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

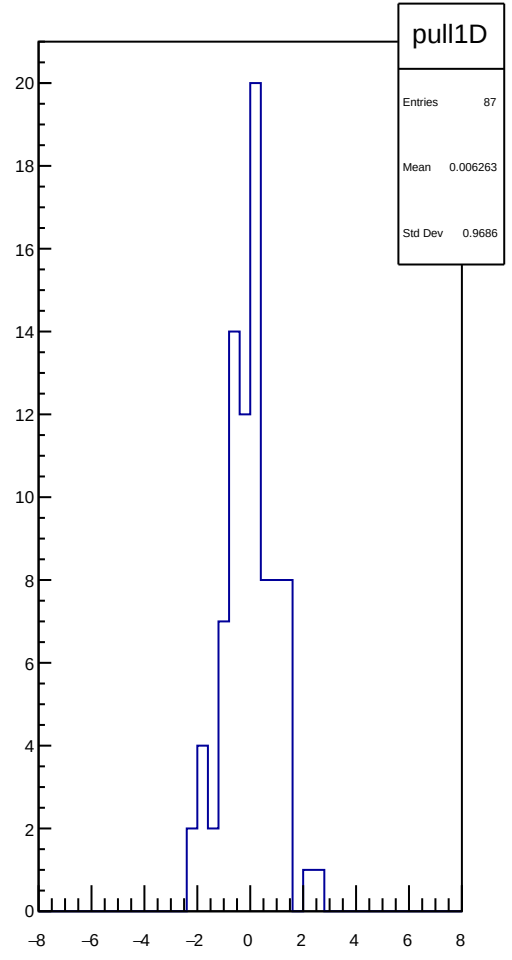

yield_sam7_rms vs run
χ² / ndf 1.367e+05 / 86
p0 0.005636 ± 4.422e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

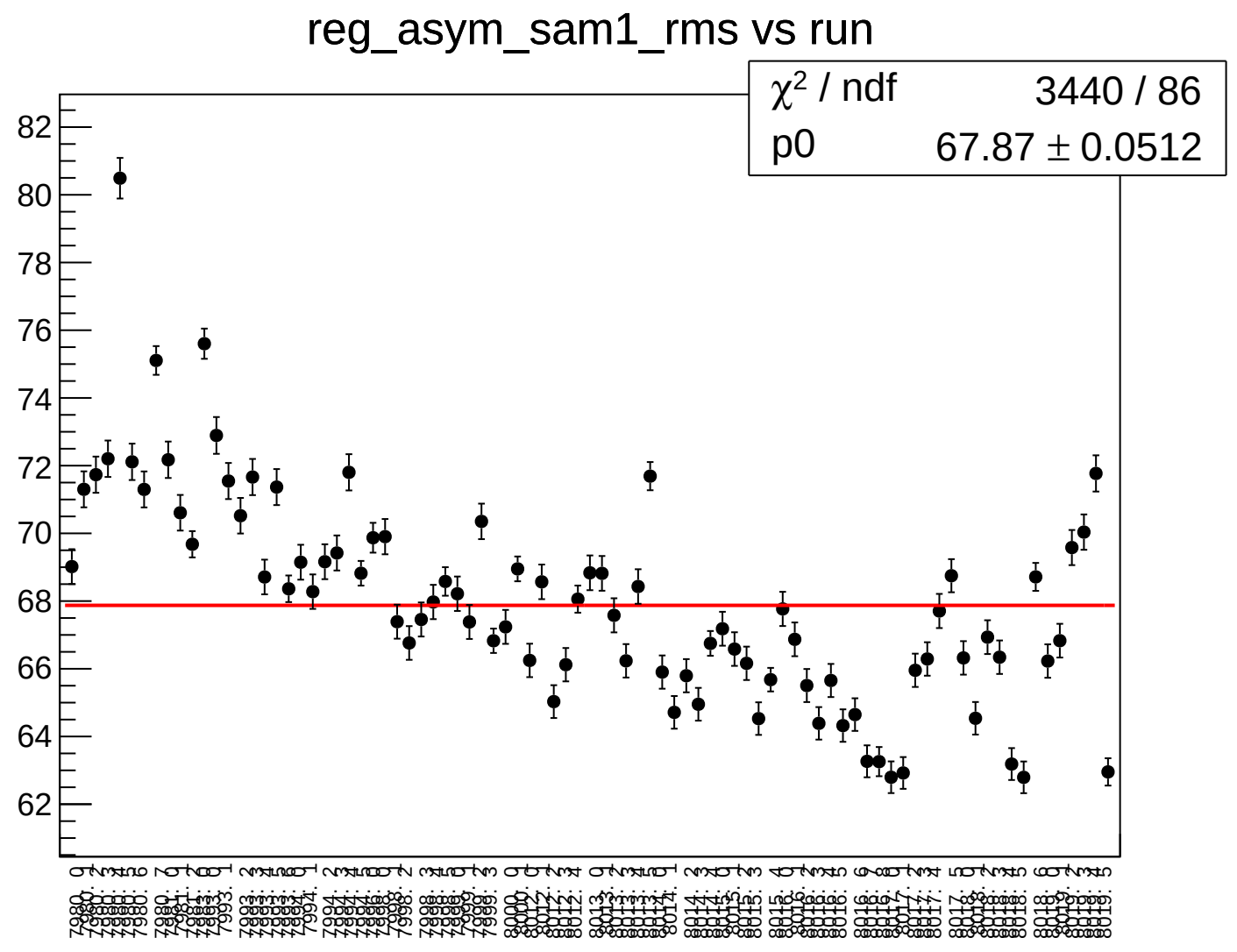

yield_sam8_mean vs run
χ² / ndf 3.504e+07 / 86
p0 8.769 ± 1.65e−05
9.1
9.05
9
8.95
8.9
8.85
8.8
8.75
8.7
pull
Entries 87
Mean −179.6
Std Dev 0
2000
1500
1000
500
0
−500

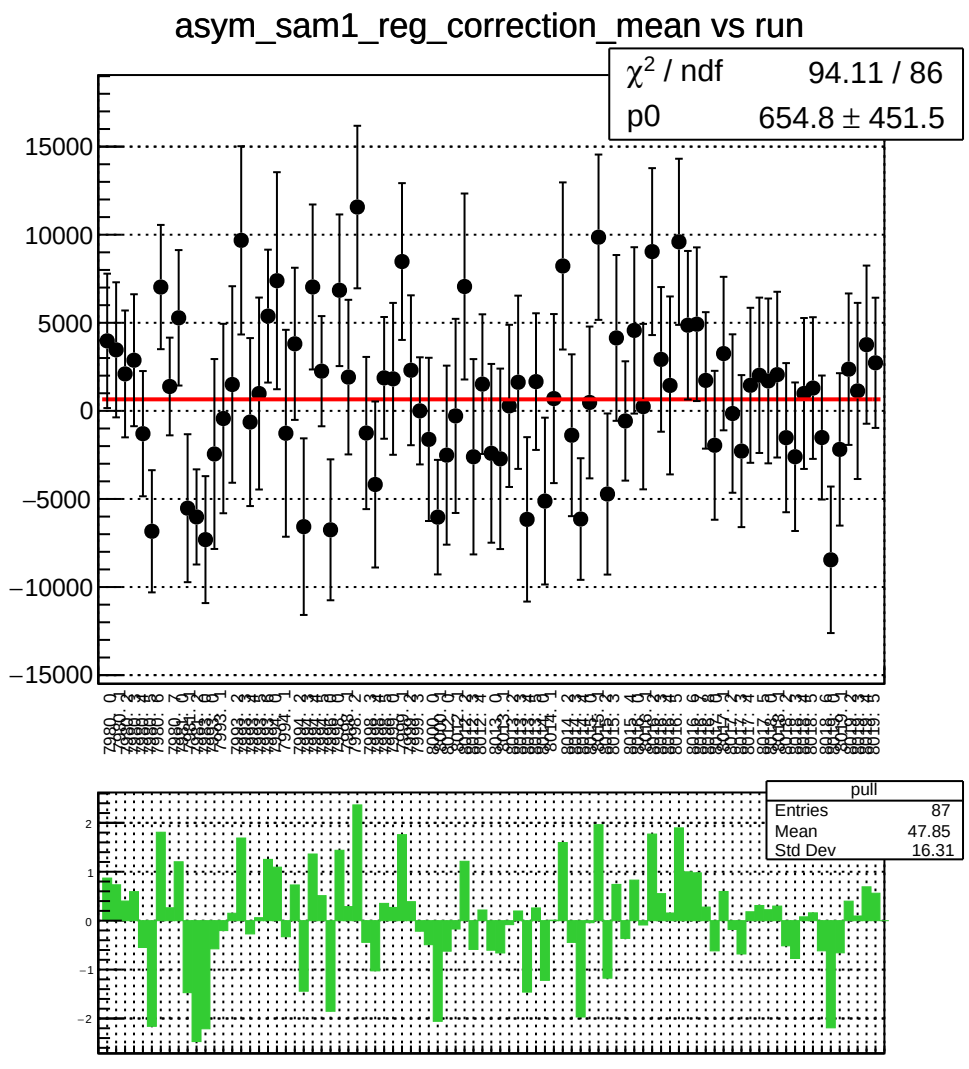

pull1D
Entries 87
Mean 3.795
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

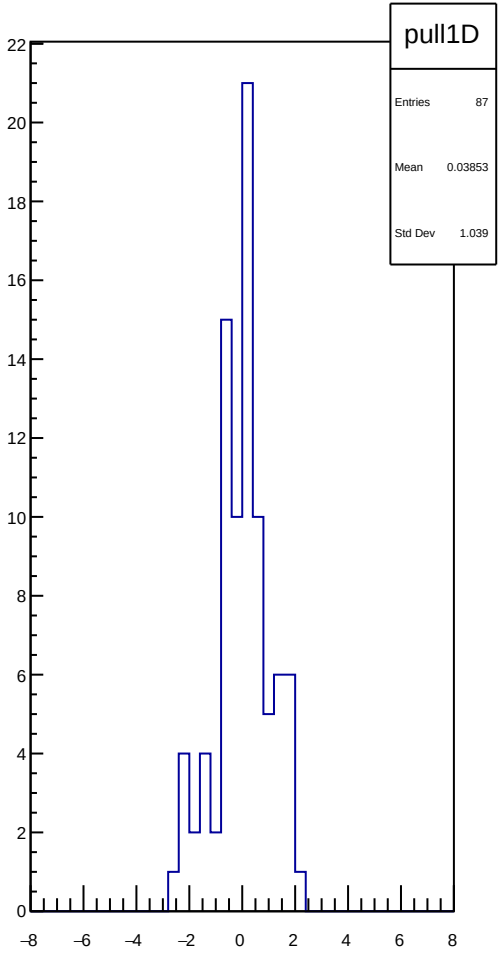

yield_sam8_rms vs run
χ² / ndf 1.373e+05 / 86
p0 0.01487 ± 1.167e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

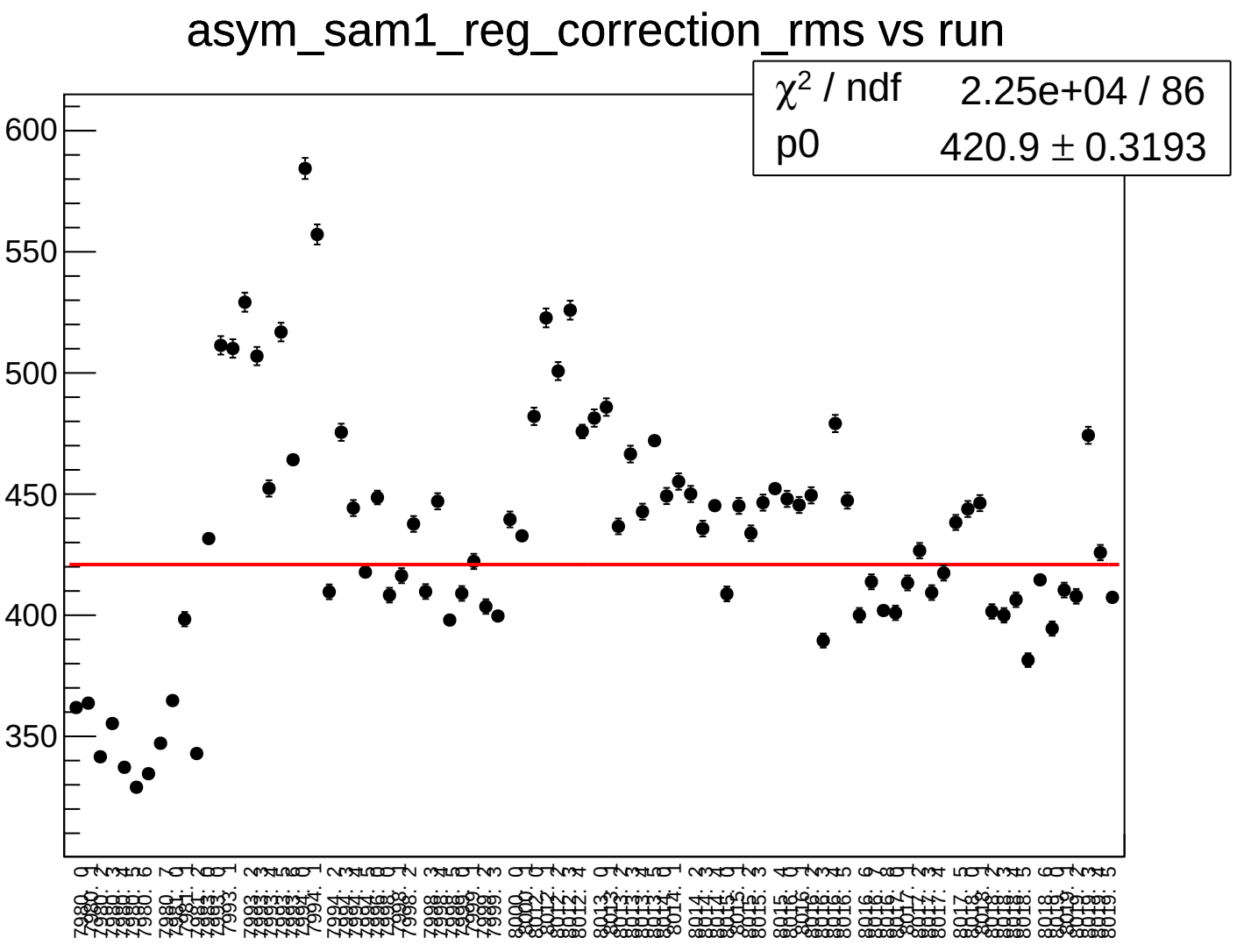

reg_asym_sam1_mean vs run
χ² / ndf 81.62 / 86
p0 −135 ± 72.41
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 418.2
Std Dev 0
2
1
0
−1
−2

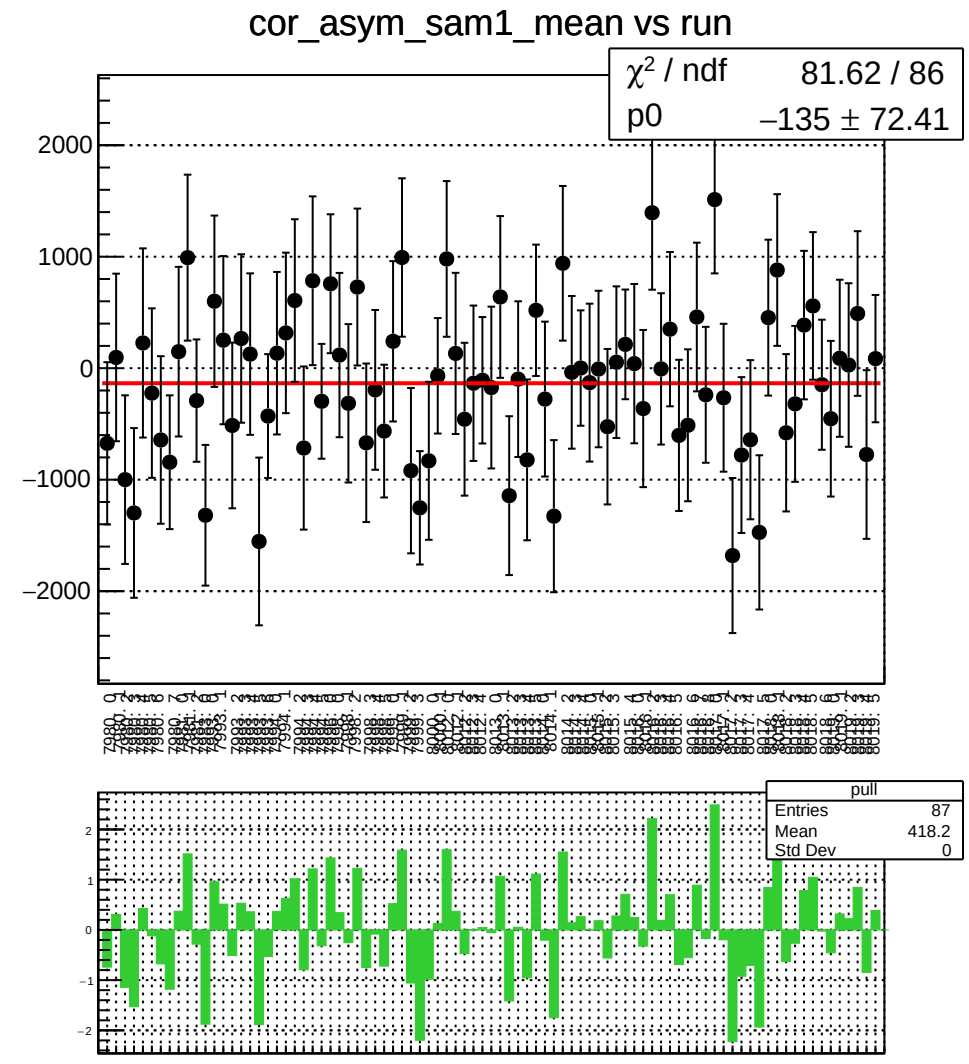

pull1D
Entries 87
Mean 0.006263
Std Dev 0.9686
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

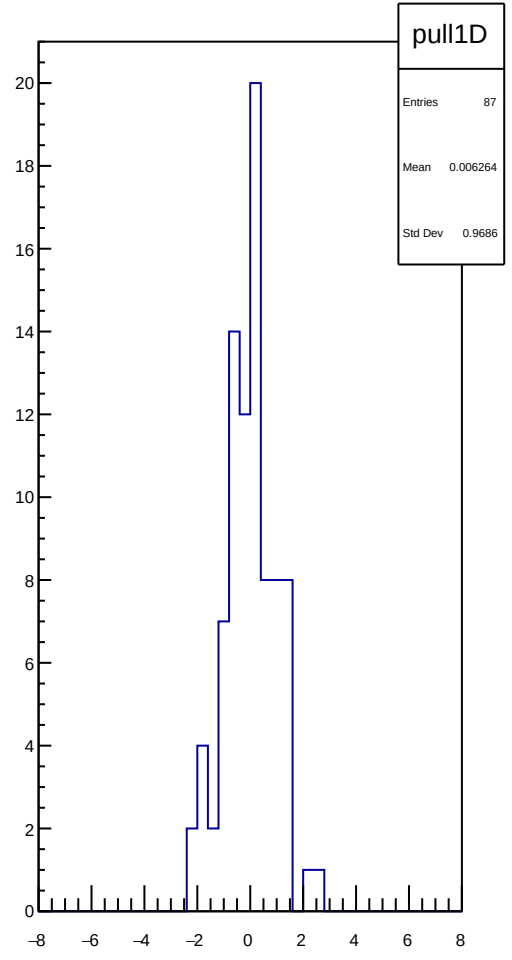

reg_asym_sam1_rms vs run
χ² / ndf 3440 / 86
p0 67.87 ± 0.0512
82
80
78
76
74
72
70
68
66
64
62

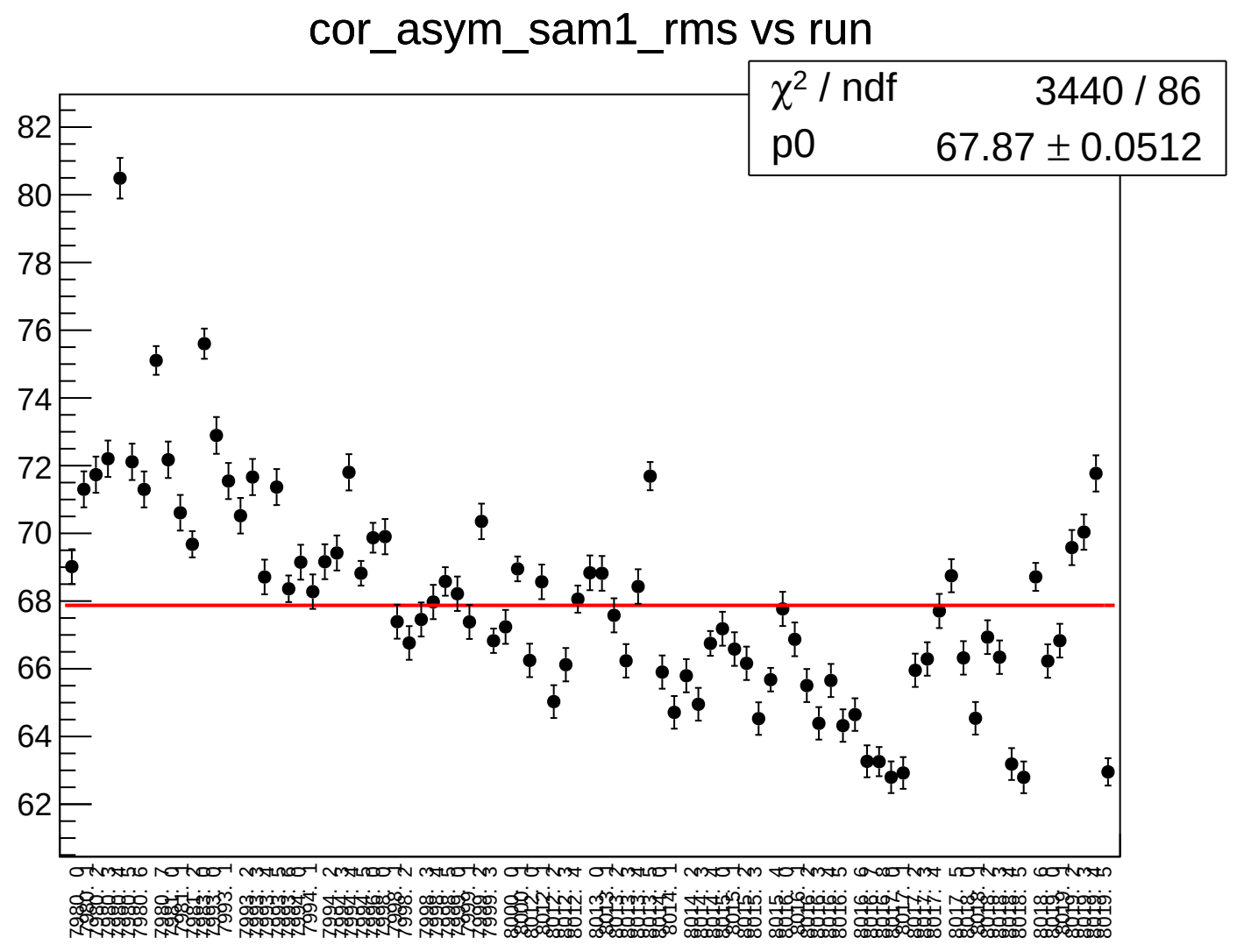

asym_sam1_reg_correction_mean vs run
χ² / ndf 94.11 / 86
p0 654.8 ± 451.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 47.85
Std Dev 16.31
2
1
0
−1
−2

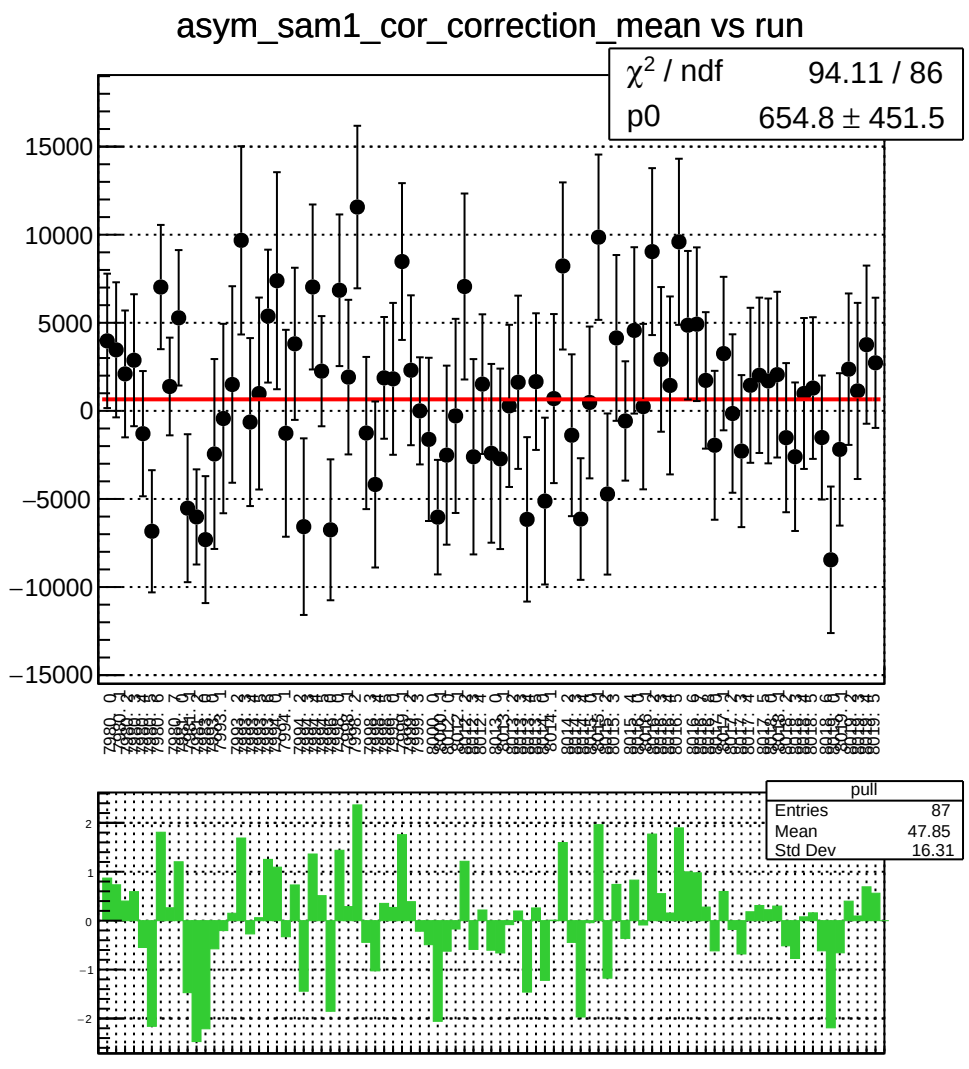

pull1D
Entries 87
Mean 0.03853
Std Dev 1.039
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

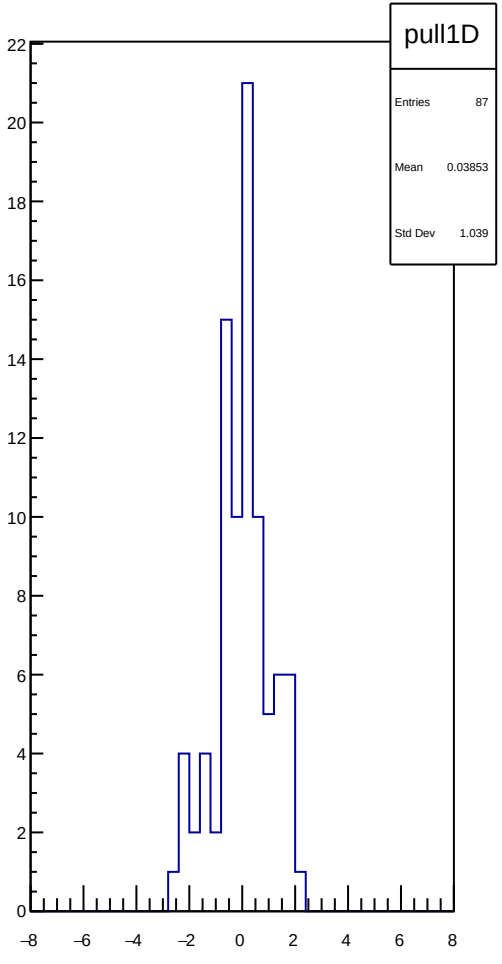

asym_sam1_reg_correction_rms vs run
χ² / ndf 2.25e+04 / 86
p0 420.9 ± 0.3193
600
550
500
450
400
350

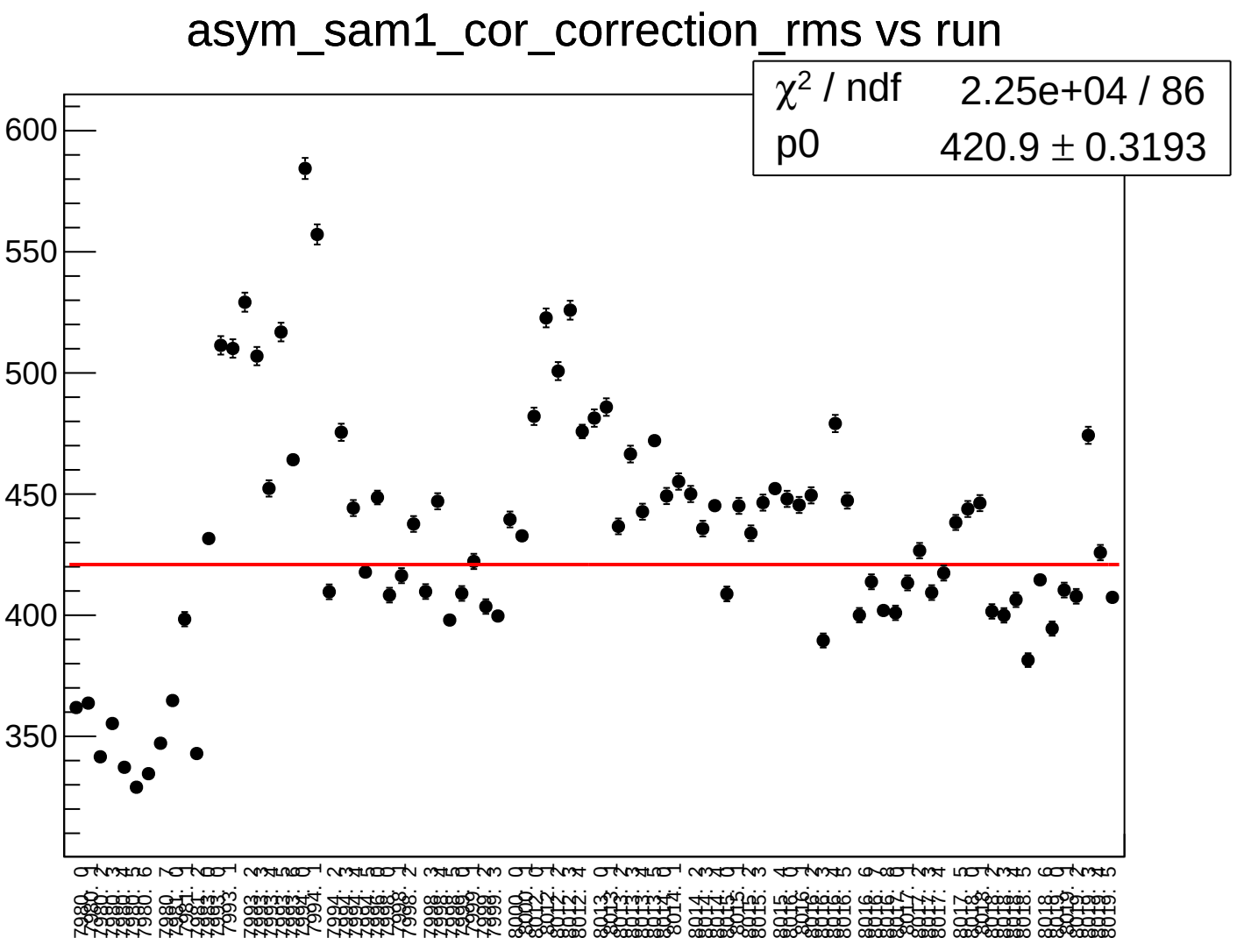

cor_asym_sam1_mean vs run
χ² / ndf 81.62 / 86
p0 −135 ± 72.41
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 418.2
Std Dev 0
2
1
0
−1
−2

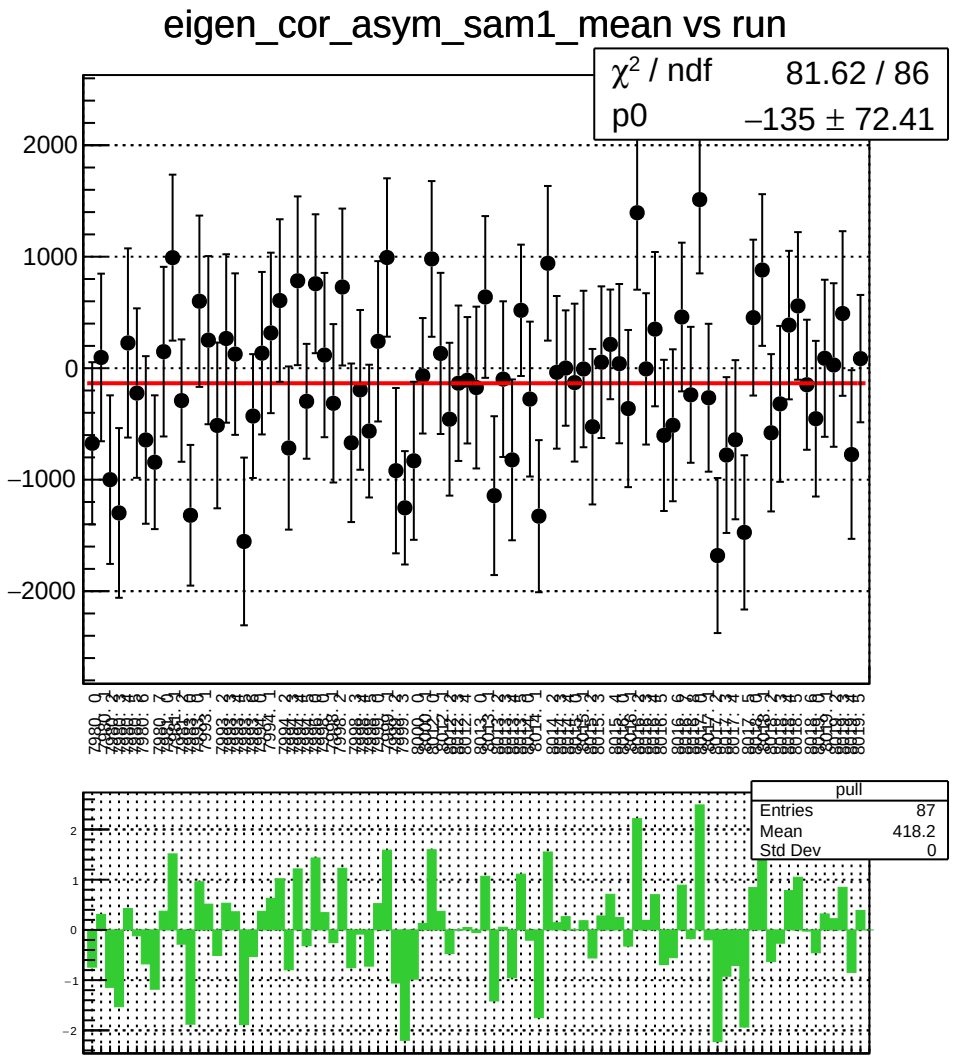

pull1D
Entries 87
Mean 0.006264
Std Dev 0.9686
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

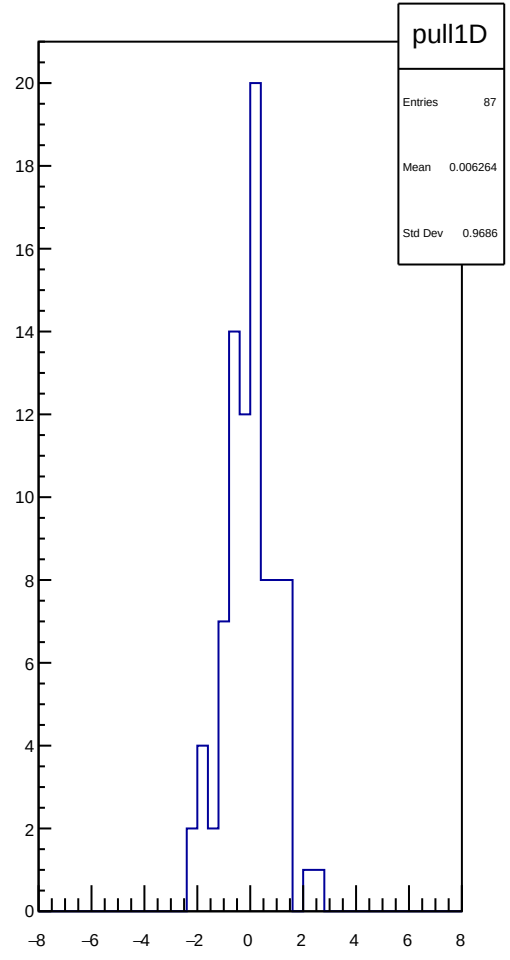

cor_asym_sam1_rms vs run
χ² / ndf 3440 / 86
p0 67.87 ± 0.0512
82
80
78
76
74
72
70
68
66
64
62

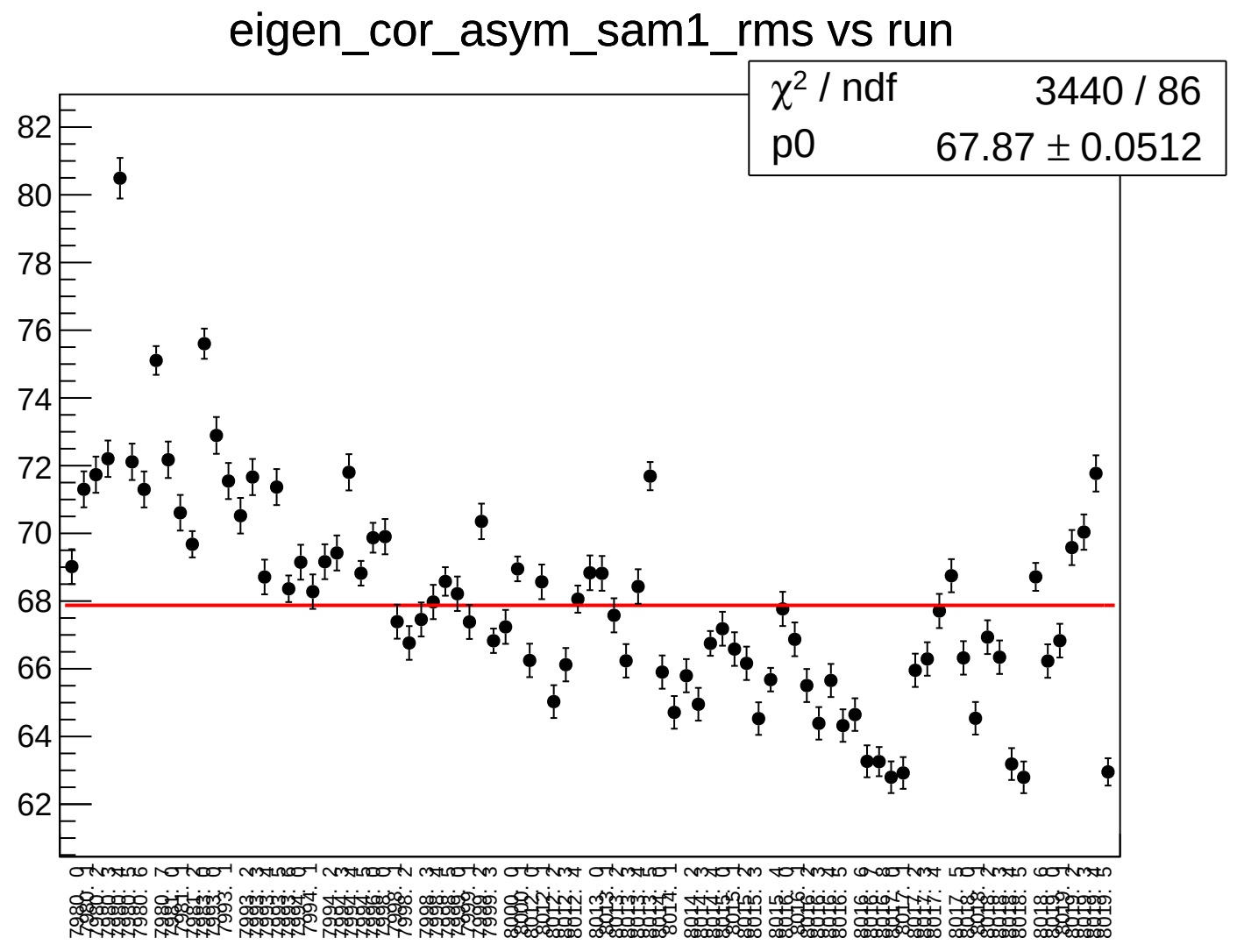

asym_sam1_cor_correction_mean vs run
χ² / ndf 94.11 / 86
p0 654.8 ± 451.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 47.85
Std Dev 16.31
2
1
0
−1
−2

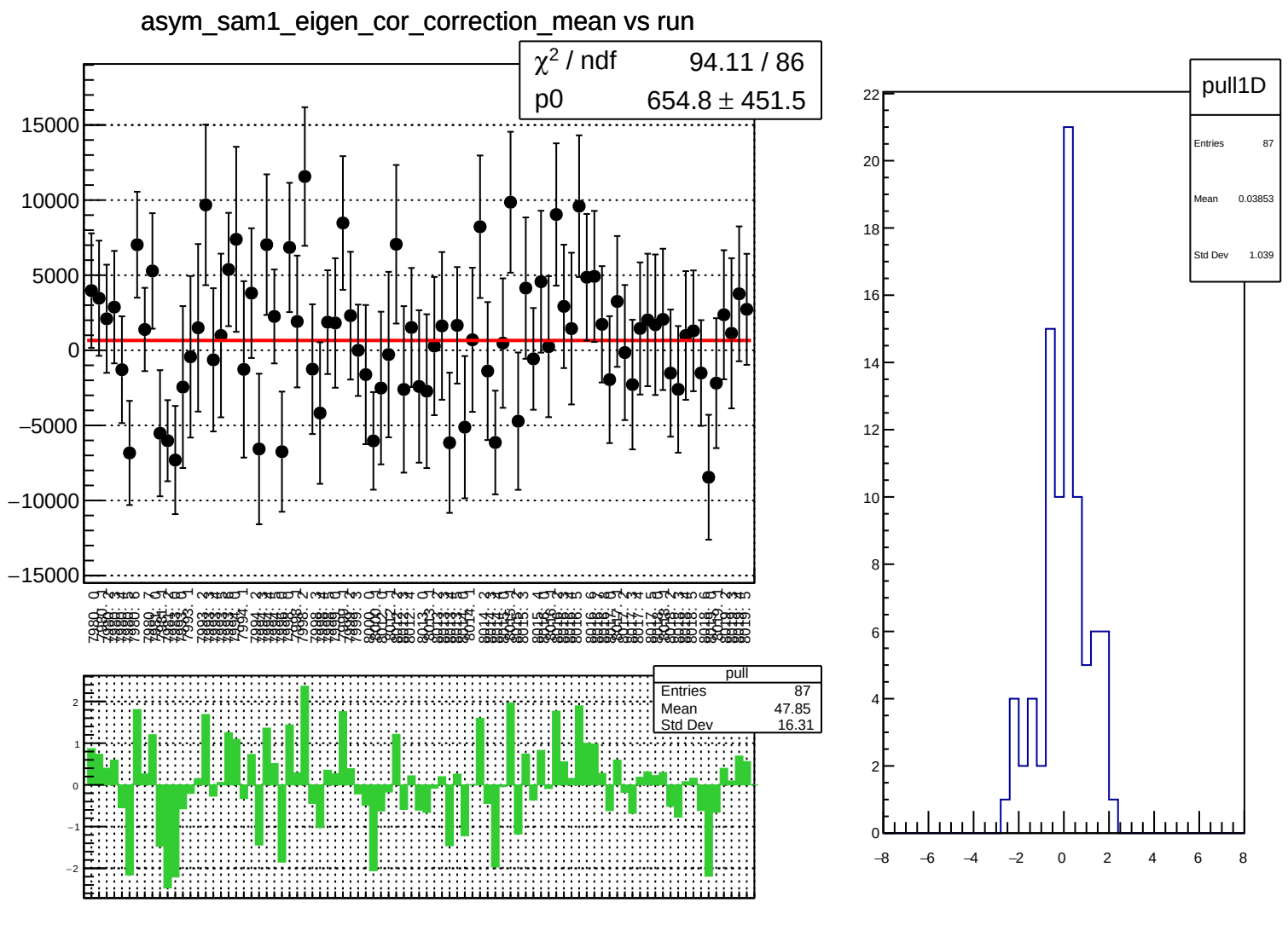

pull1D
Entries 87
Mean 0.03853
Std Dev 1.039
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

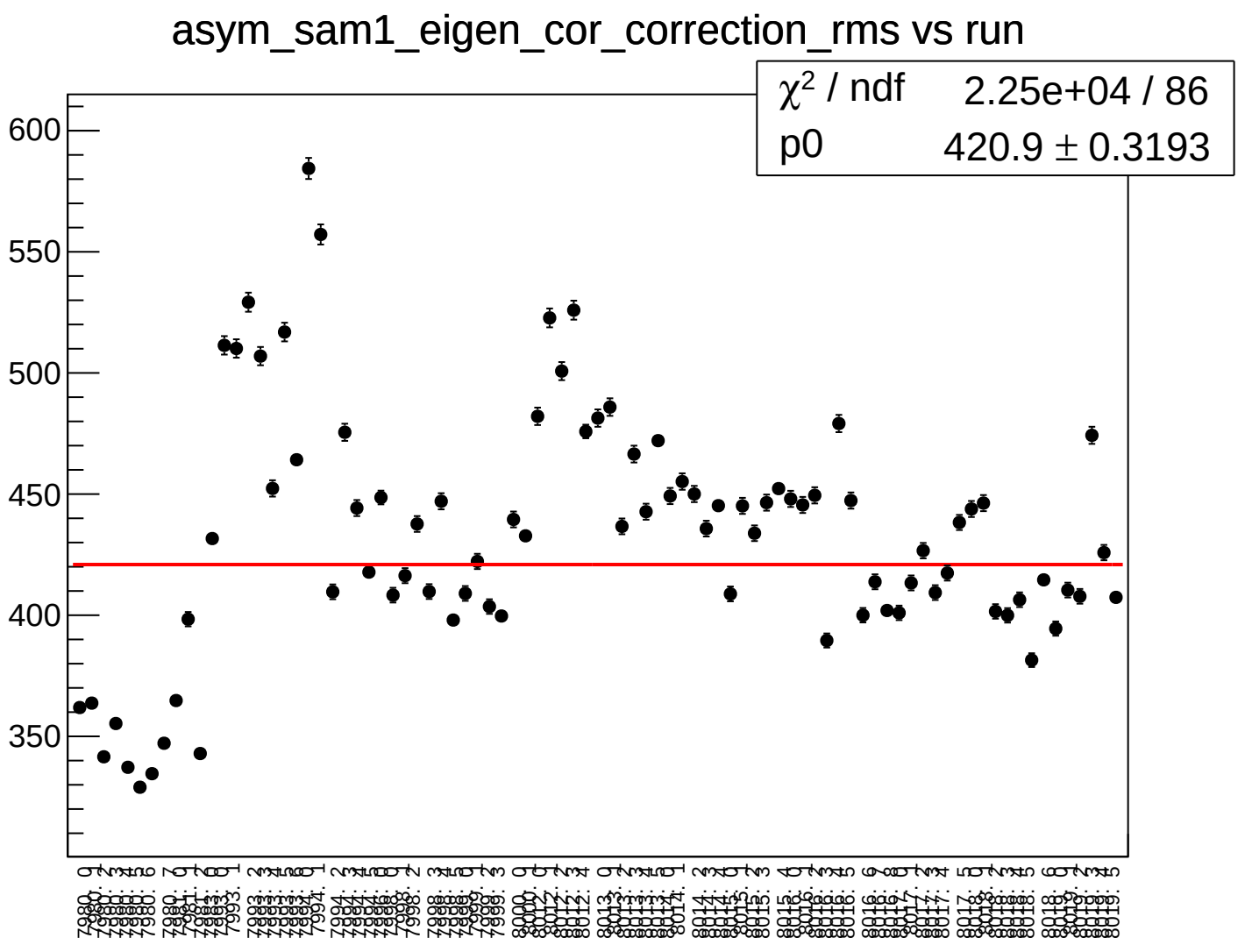

asym_sam1_cor_correction_rms vs run
χ² / ndf 2.25e+04 / 86
p0 420.9 ± 0.3193
600
550
500
450
400
350

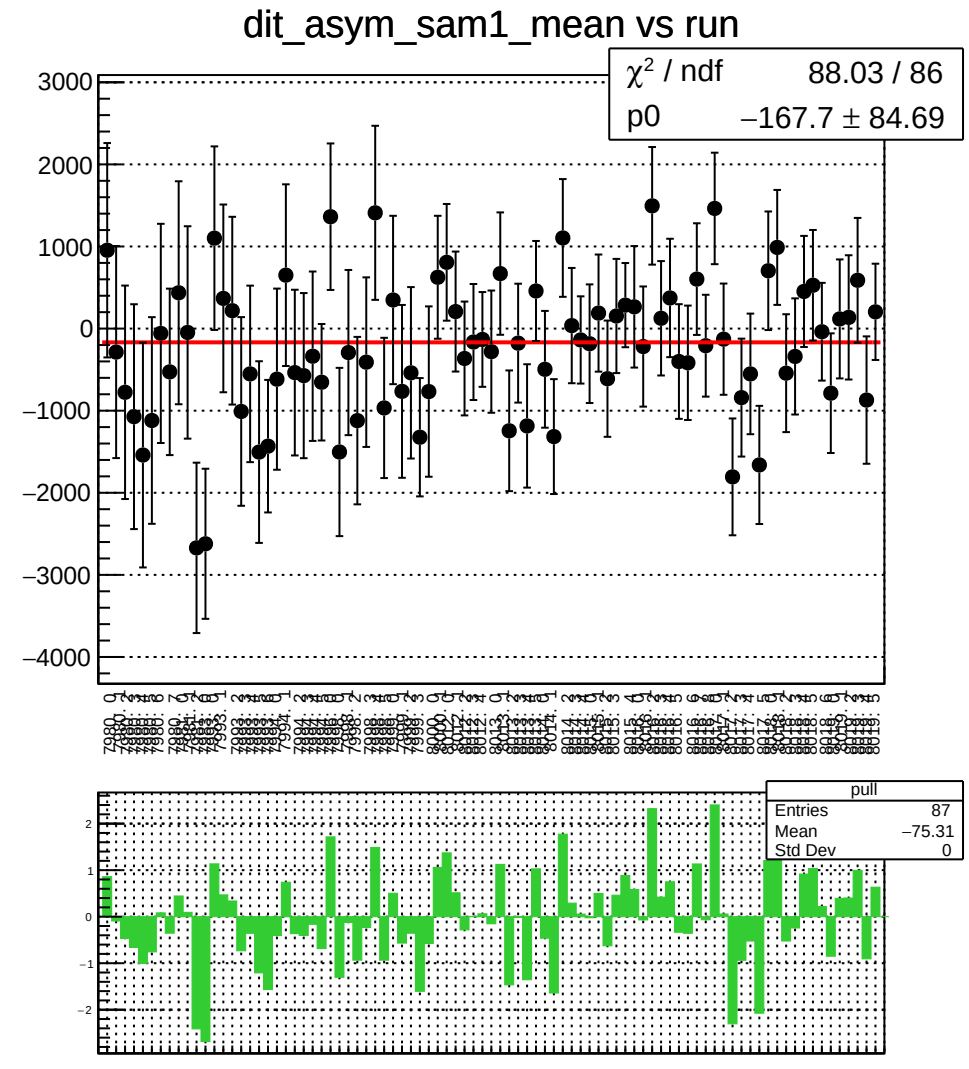

eigen_cor_asym_sam1_mean vs run
χ² / ndf 81.62 / 86
p0 −135 ± 72.41
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 418.2
Std Dev 0
2
1
0
−1
−2

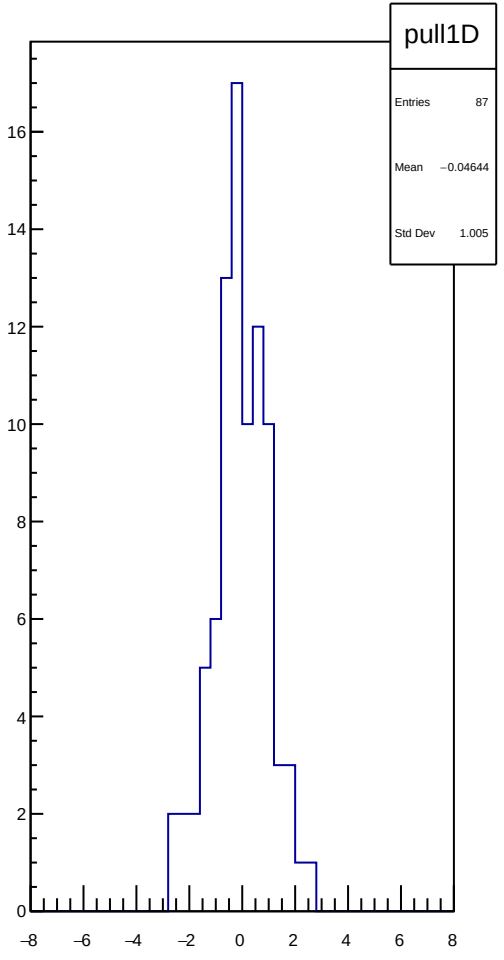

pull1D
Entries 87
Mean 0.006264
Std Dev 0.9686
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

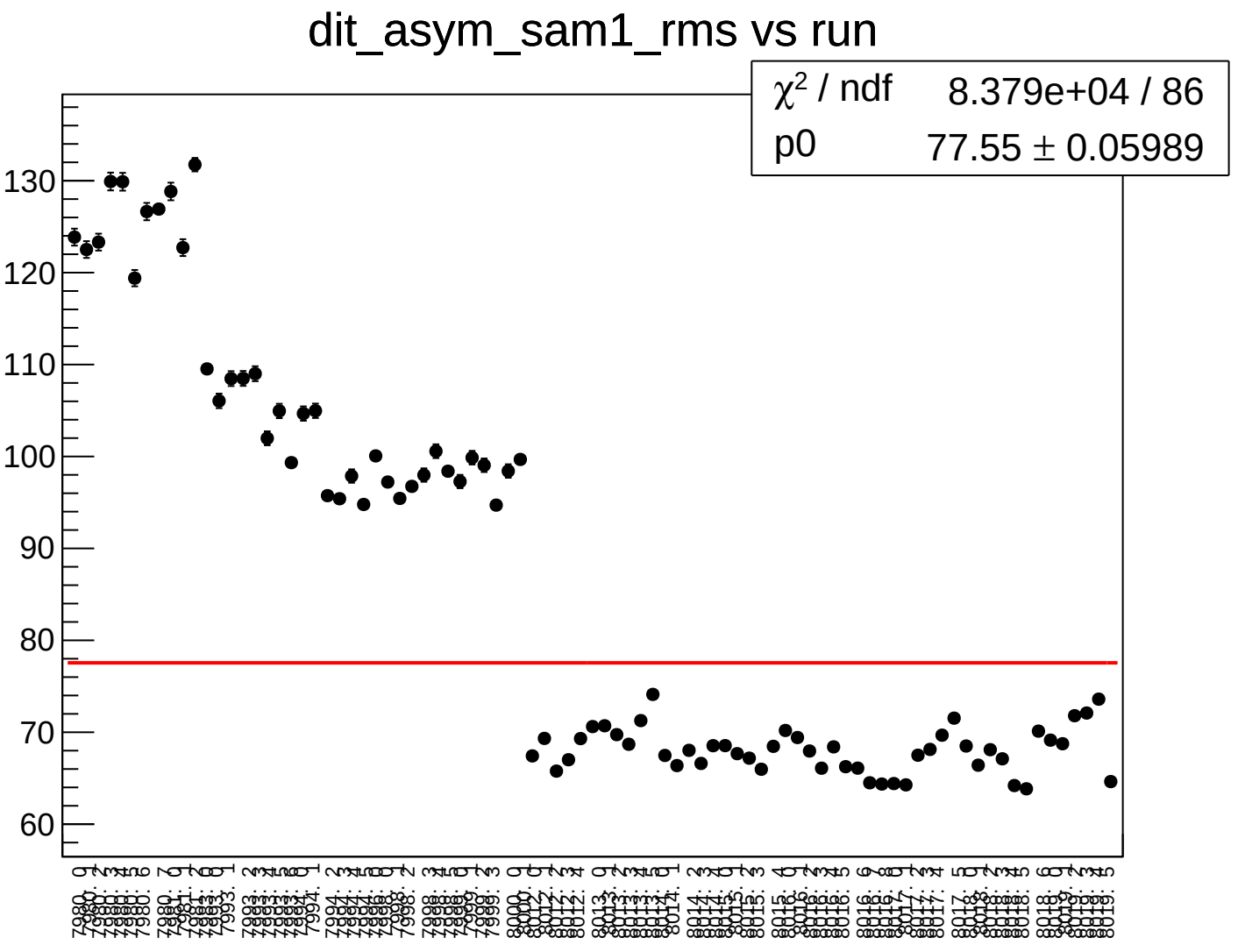

eigen_cor_asym_sam1_rms vs run
χ² / ndf 3440 / 86
p0 67.87 ± 0.0512
82
80
78
76
74
72
70
68
66
64
62

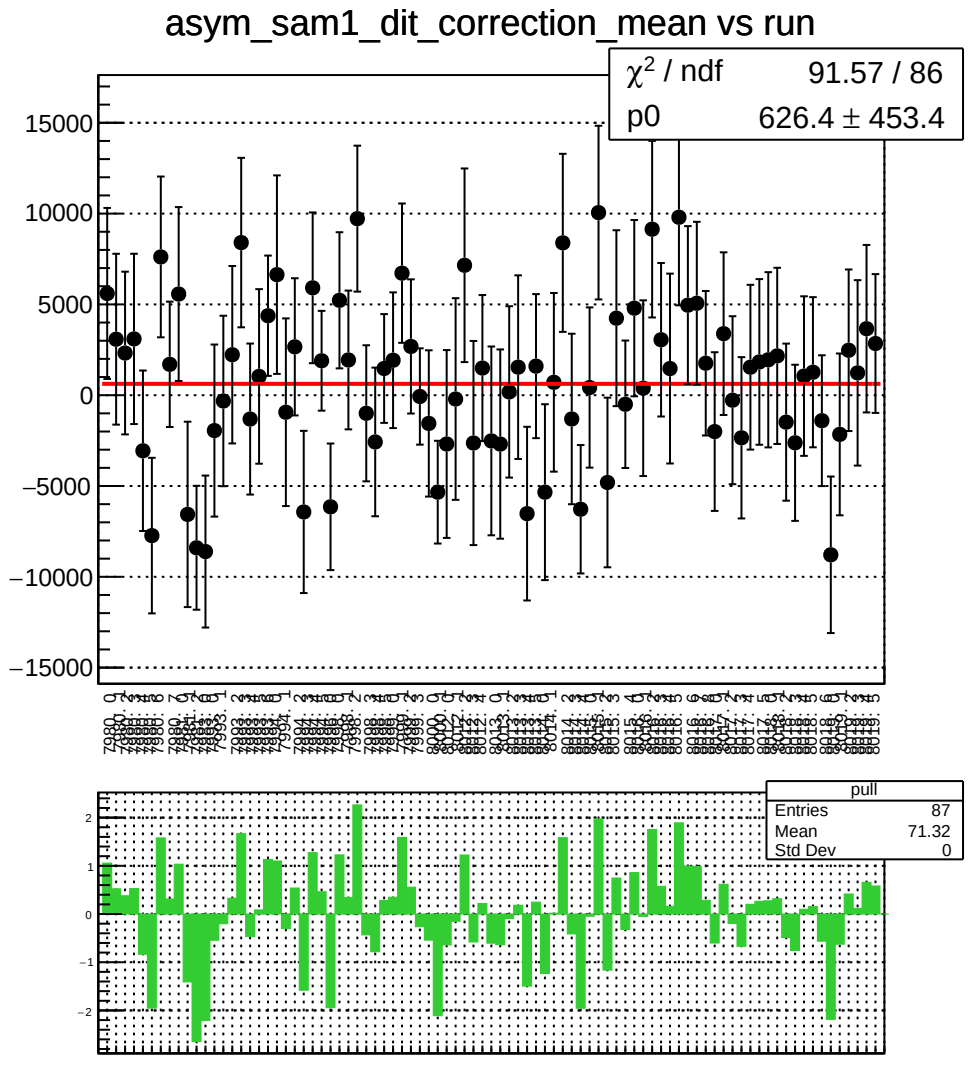

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 94.11 / 86
p0 654.8 ± 451.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 47.85
Std Dev 16.31
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.03853
Std Dev 1.039
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

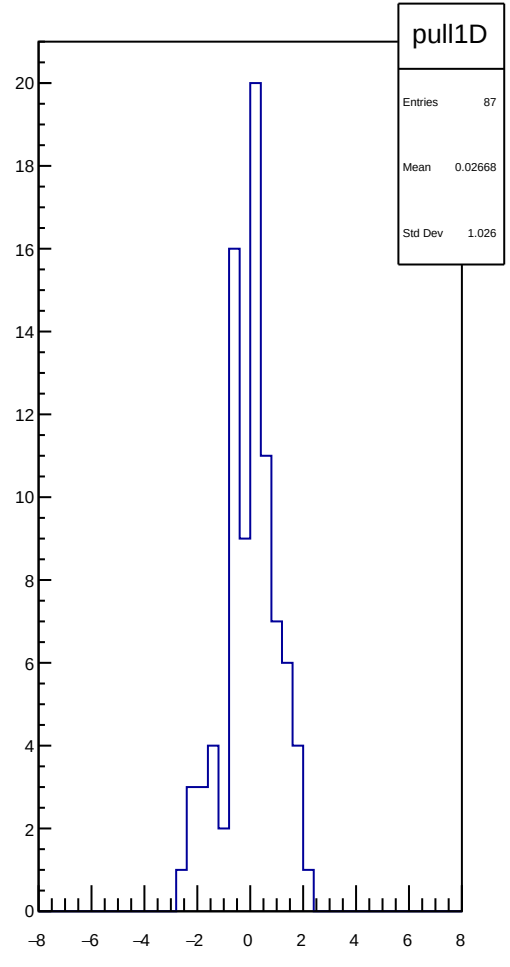

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 2.25e+04 / 86
p0 420.9 ± 0.3193
600
550
500
450
400
350

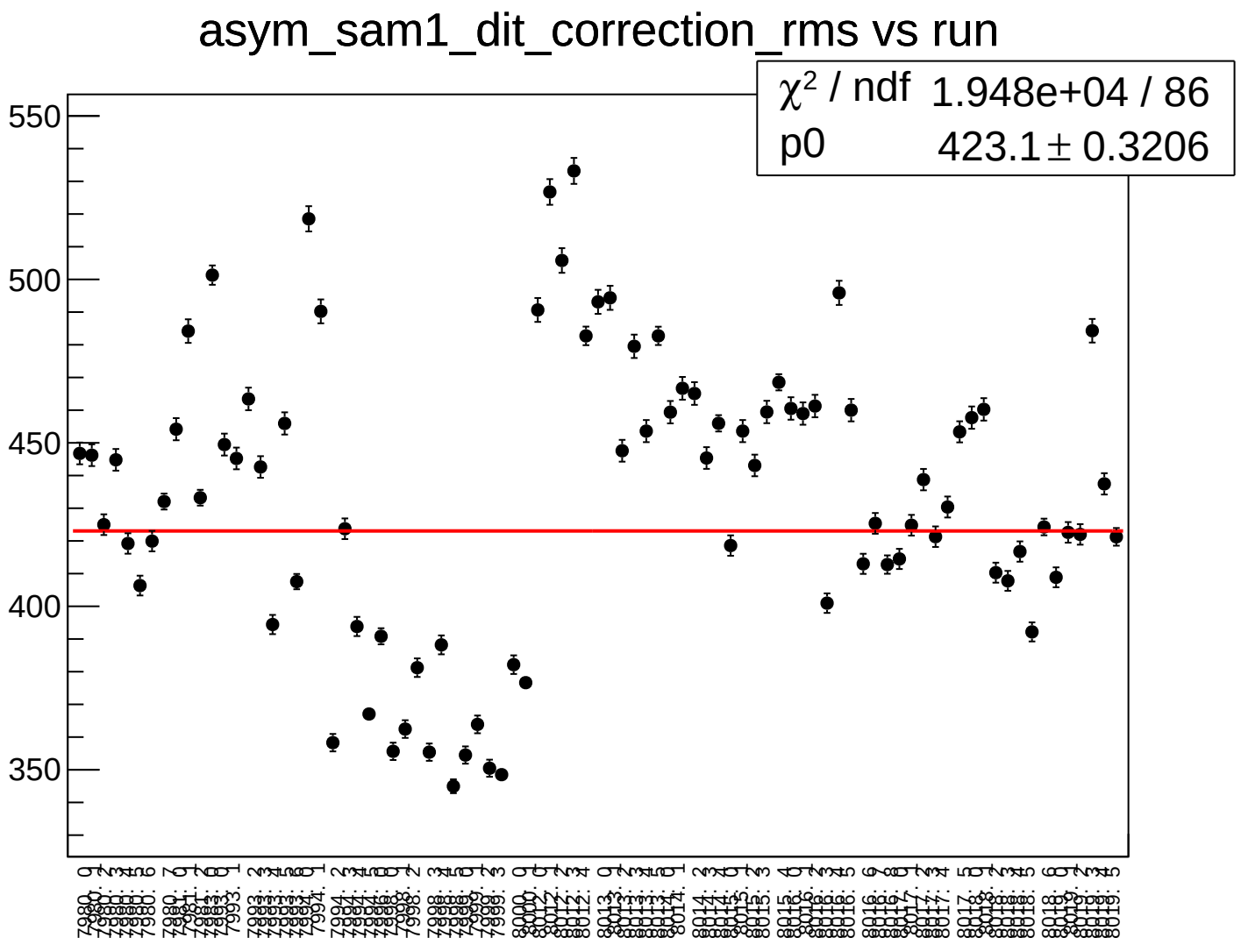

dit_asym_sam1_mean vs run
χ² / ndf 88.03 / 86
p0 −167.7 ± 84.69
pull
Entries 87
Mean −75.31
Std Dev 0

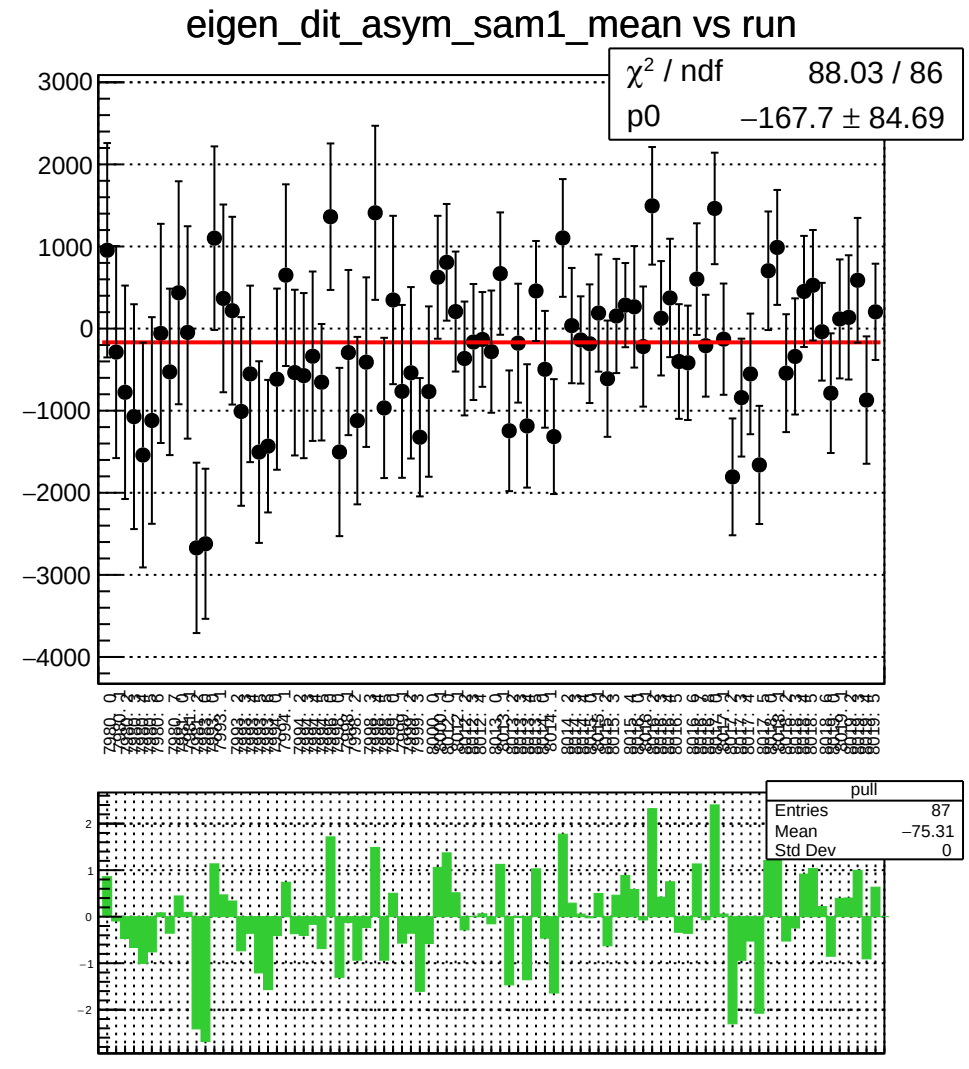

pull1D
Entries 87
Mean −0.04644
Std Dev 1.005

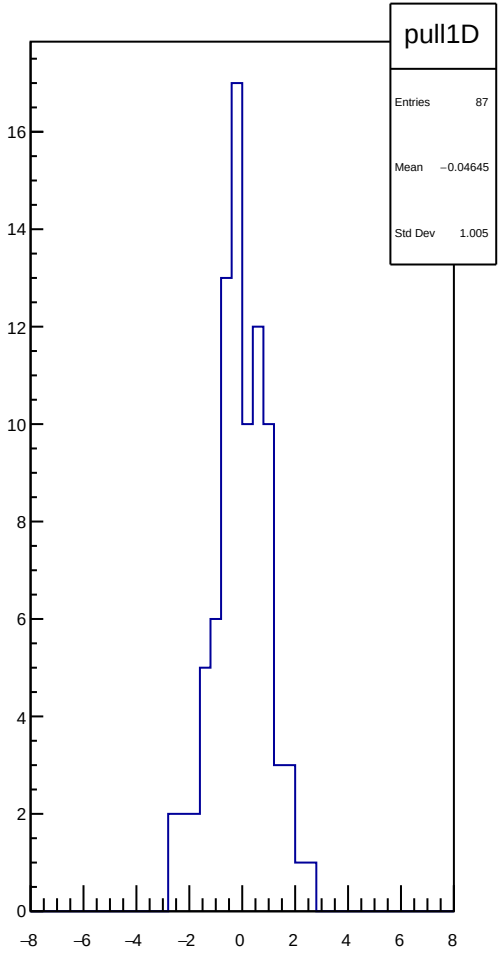

dit_asym_sam1_rms vs run
χ^2 / ndf 8.379e+04 / 86
p0 77.55 ± 0.05989
130
120
110
100
90
80
70
60

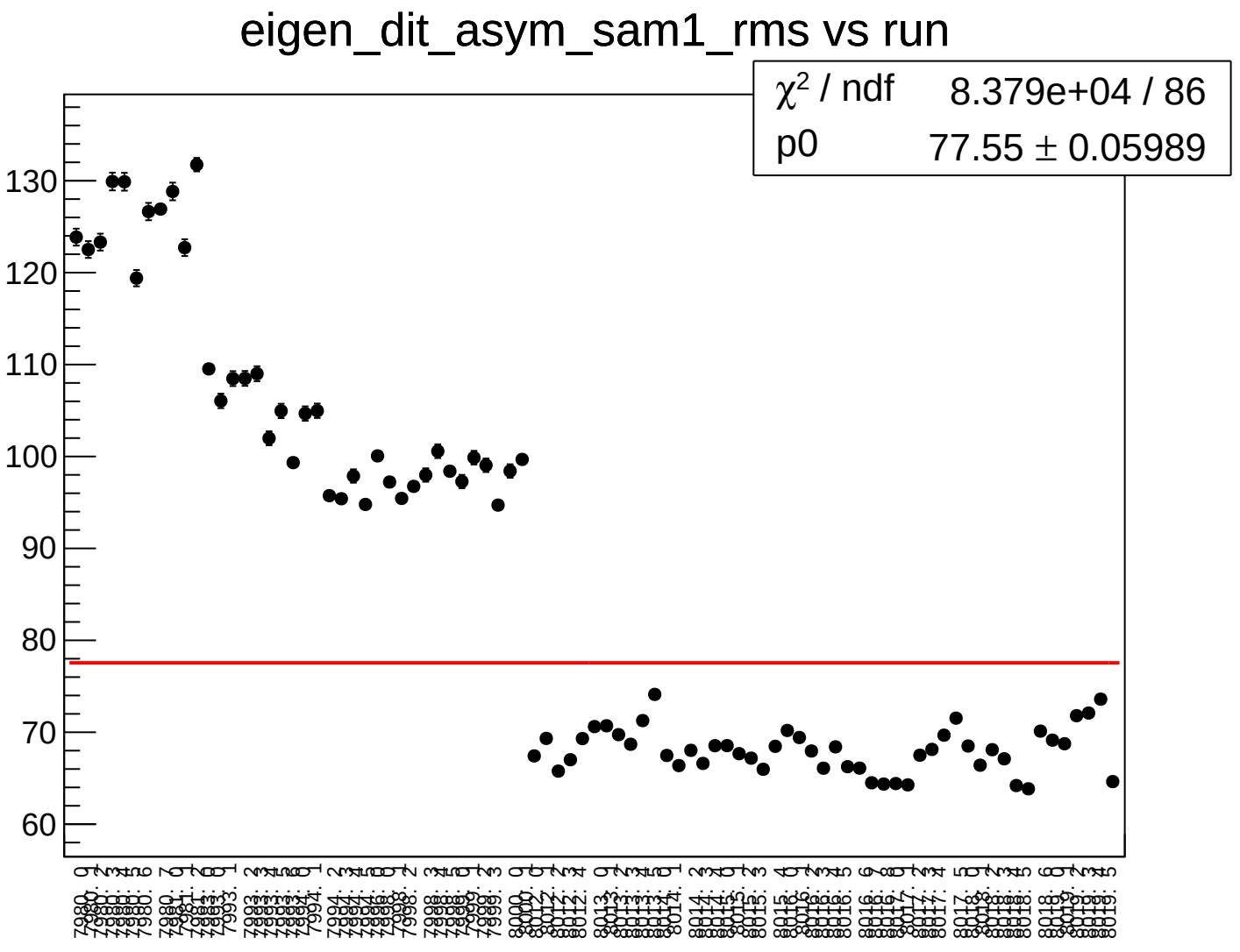

asym_sam1_dit_correction_mean vs run
χ² / ndf 91.57 / 86
p0 626.4 ± 453.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 71.32
Std Dev 0
2
1
0
−1
−2

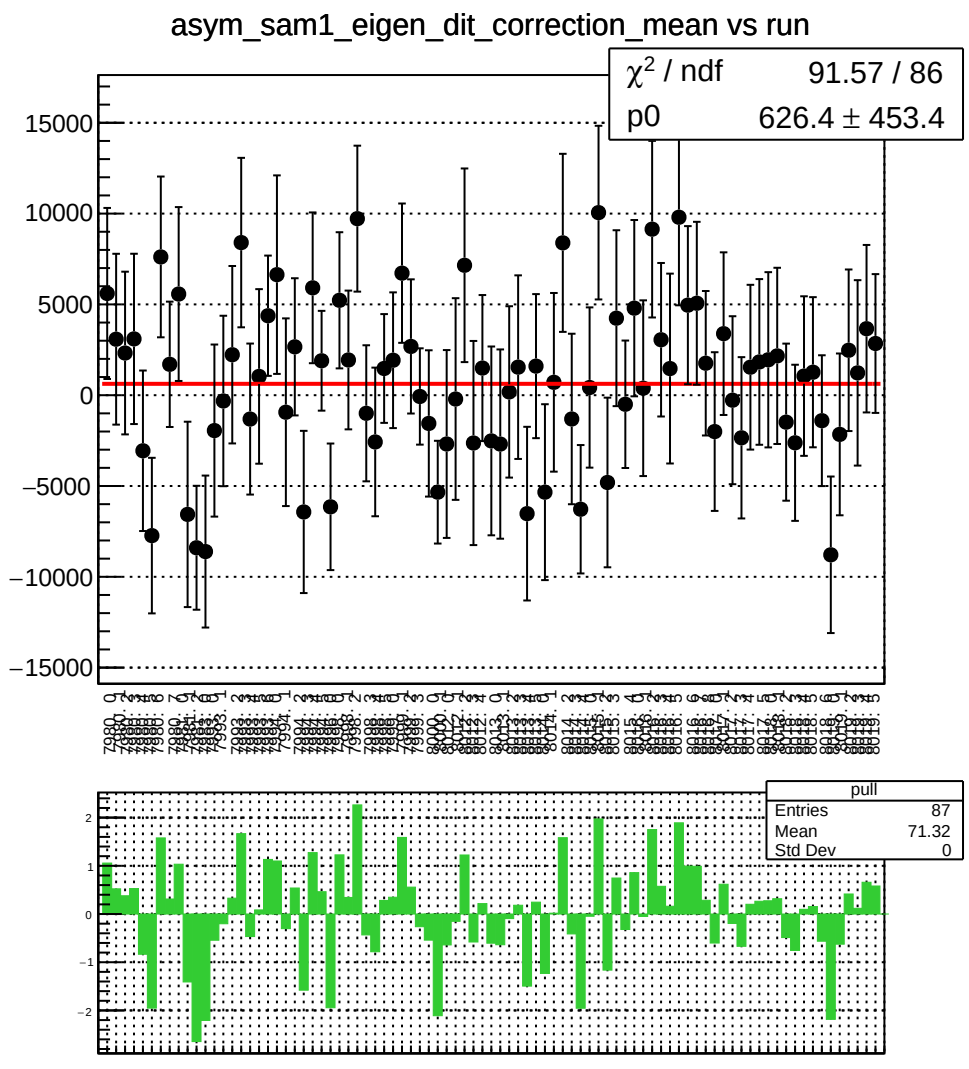

pull1D
Entries 87
Mean 0.02668
Std Dev 1.026
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

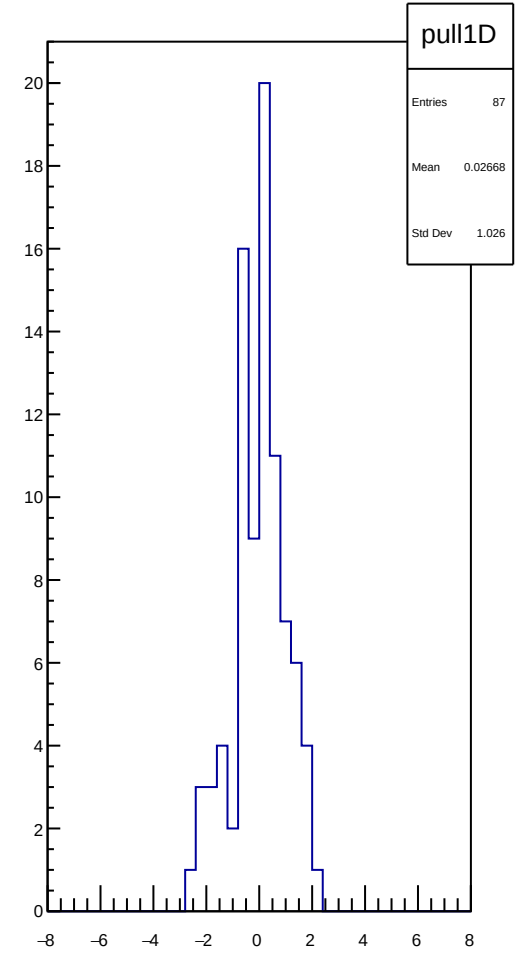

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.948e+04 / 86
p0 423.1 ± 0.3206
550
500
450
400
350

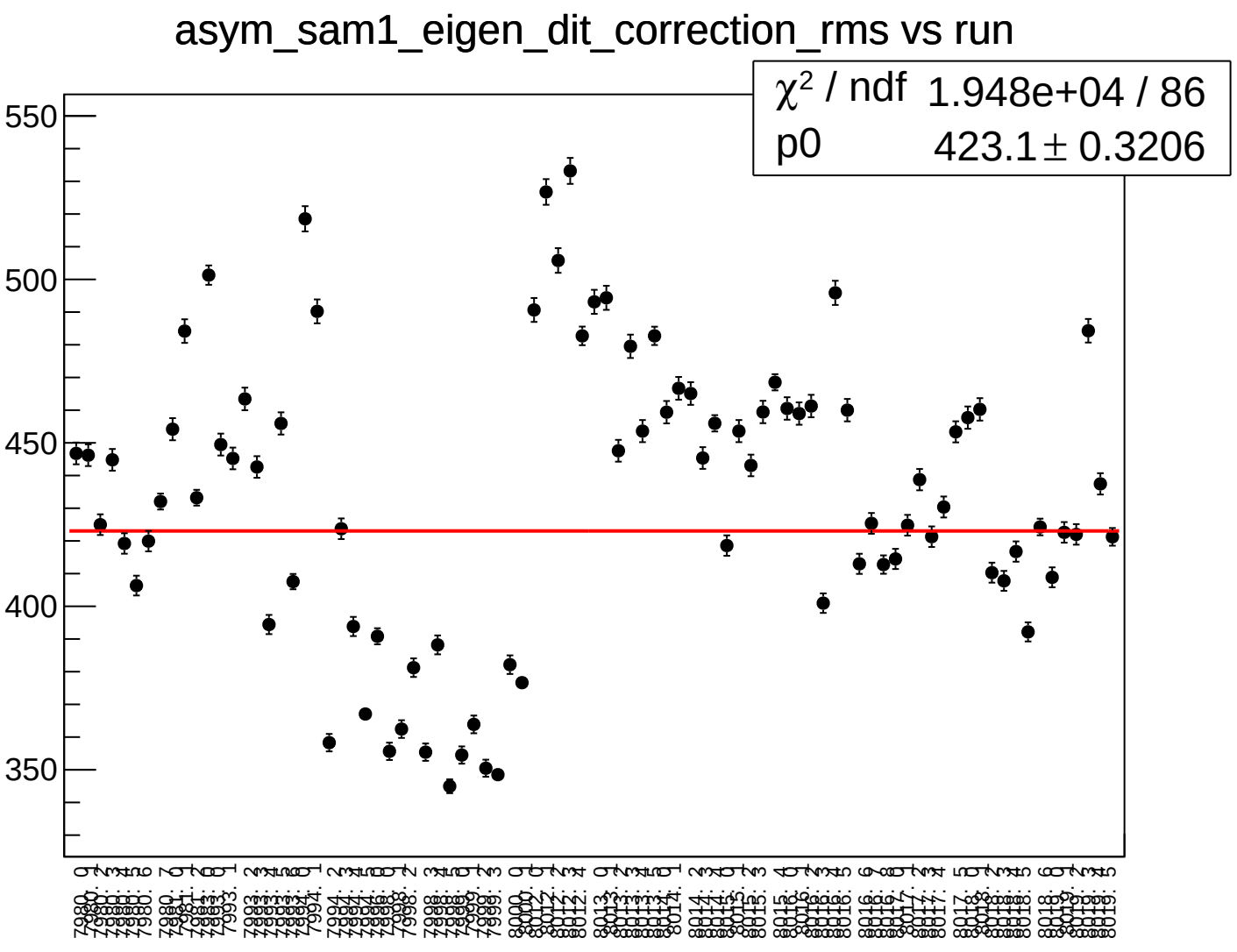

eigen_dit_asym_sam1_mean vs run
χ² / ndf 88.03 / 86
p0 −167.7 ± 84.69
pull
Entries 87
Mean −75.31
Std Dev 0

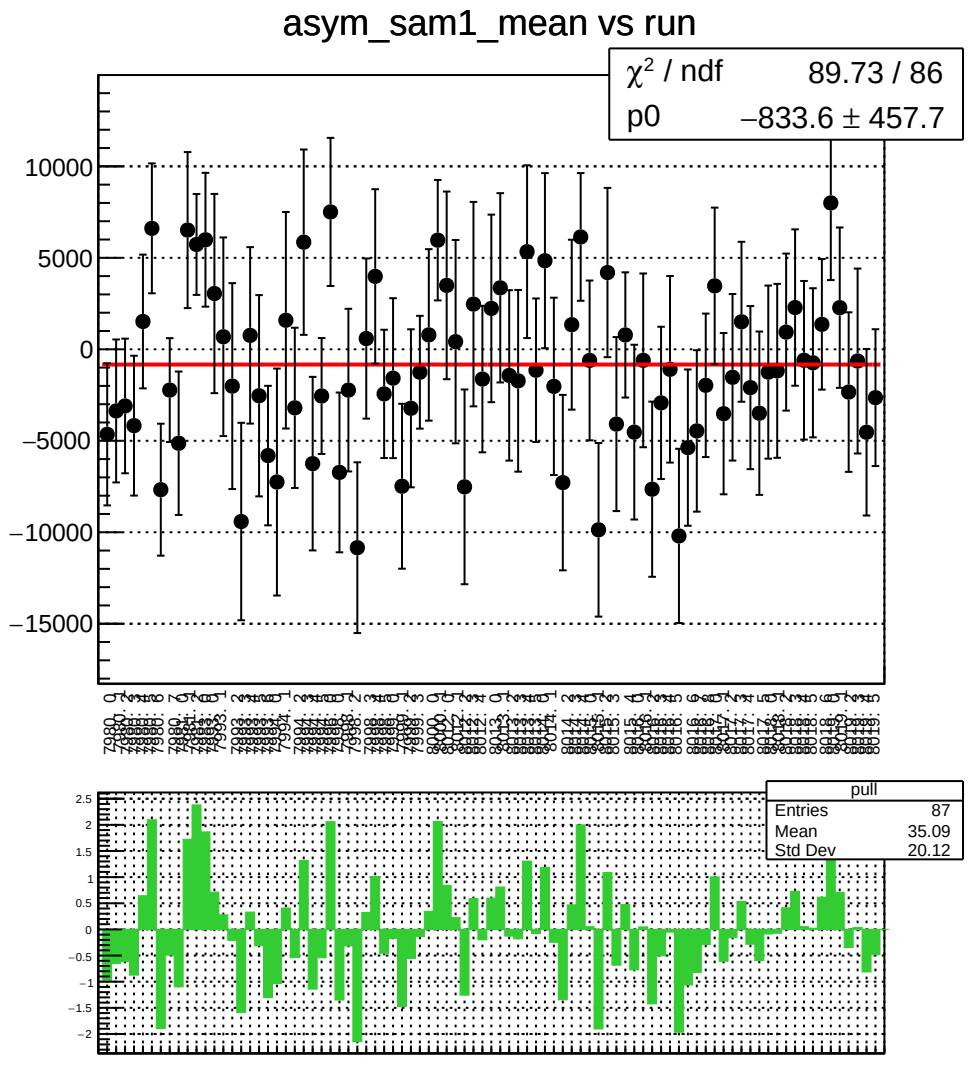

pull1D
Entries 87
Mean −0.04645
Std Dev 1.005

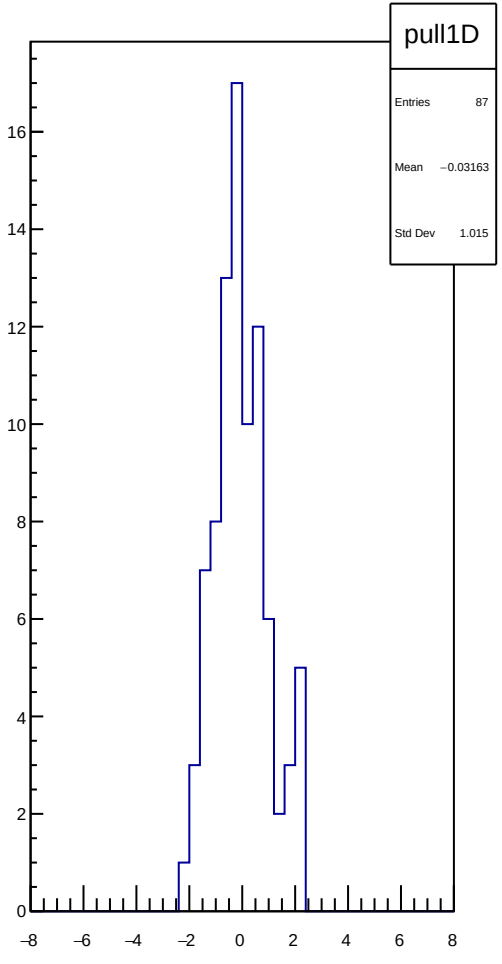

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 8.379e+04 / 86
p0 77.55 ± 0.05989
130
120
110
100
90
80
70
60

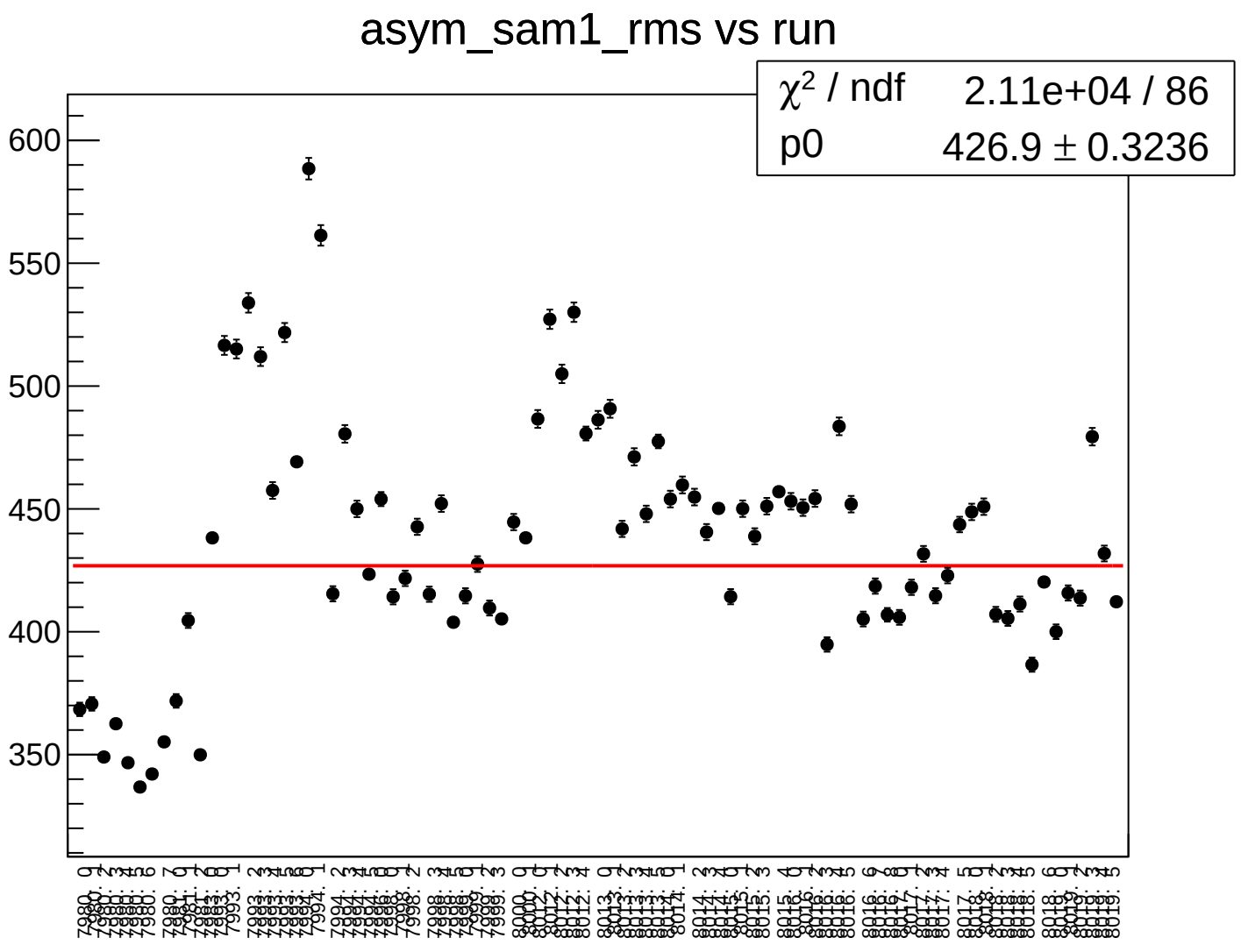

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 91.57 / 86
p0 626.4 ± 453.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 71.32
Std Dev 0
2
1
0
−1
−2

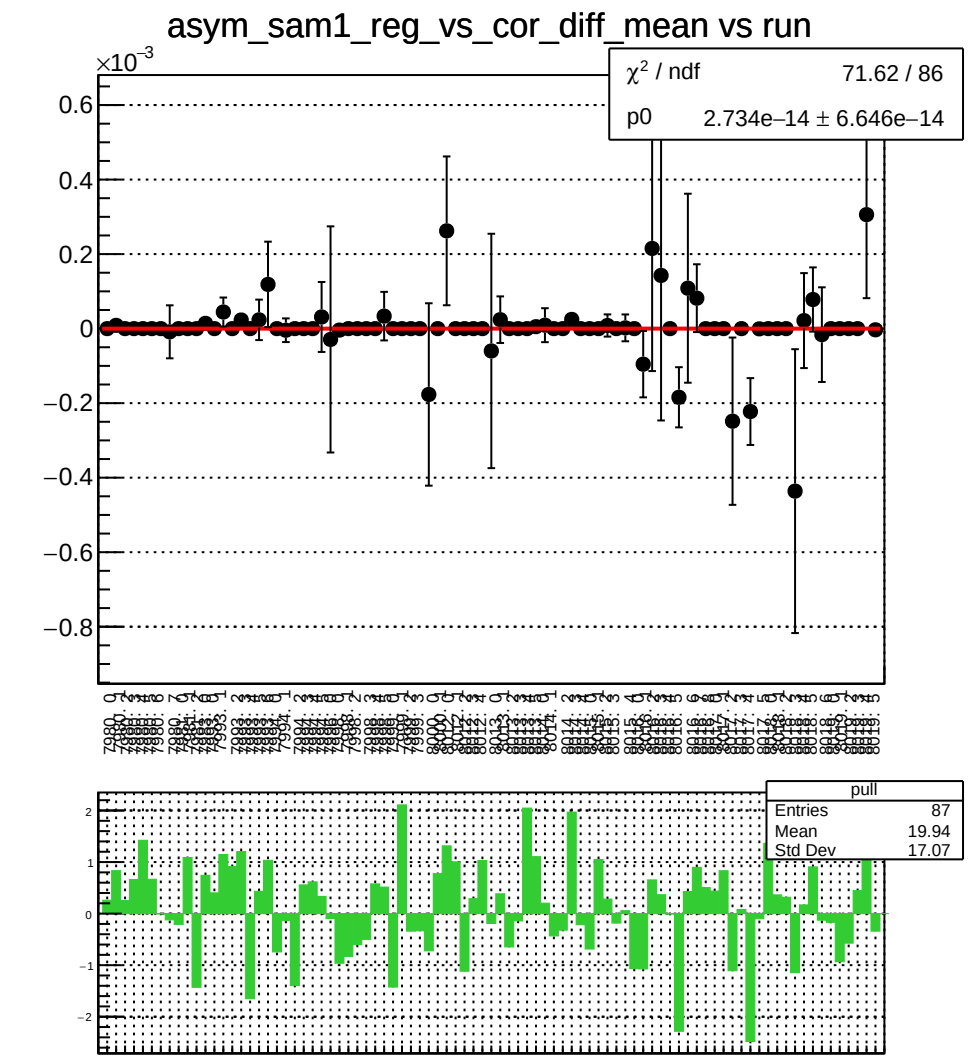

pull1D
Entries 87
Mean 0.02668
Std Dev 1.026
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

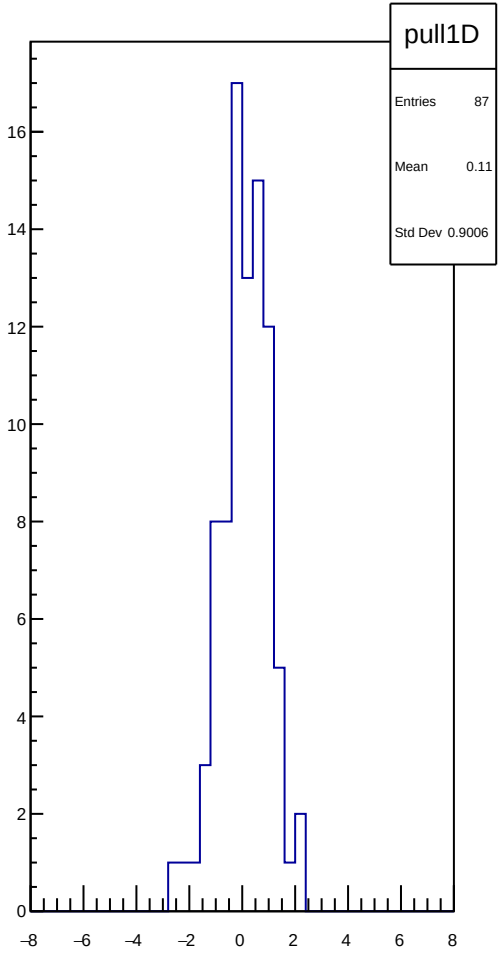

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1.948e+04 / 86
p0 423.1 ± 0.3206
550
500
450
400
350

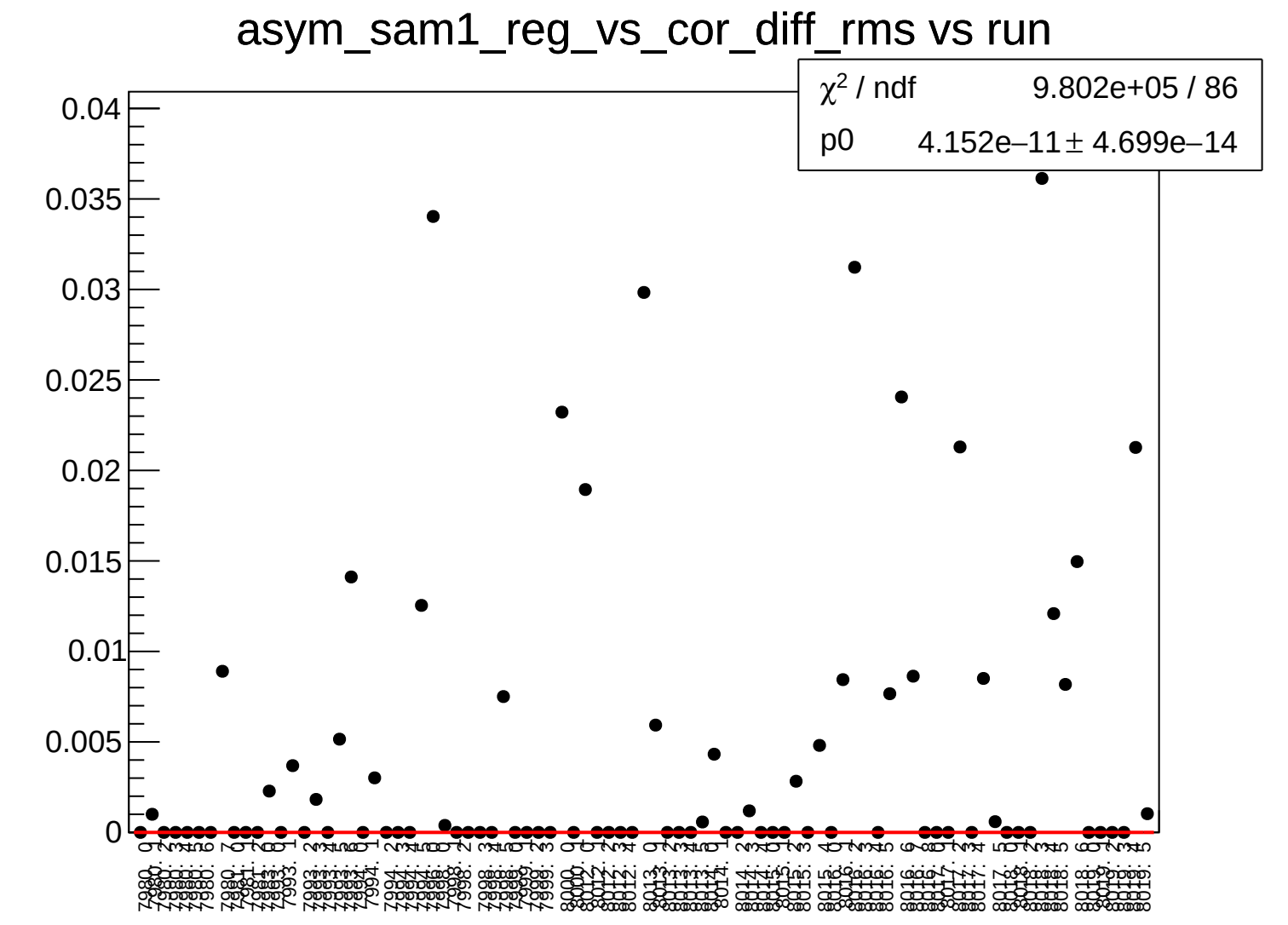

asym_sam1_mean vs run
χ² / ndf 89.73 / 86
p0 −833.6 ± 457.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 35.09
Std Dev 20.12
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

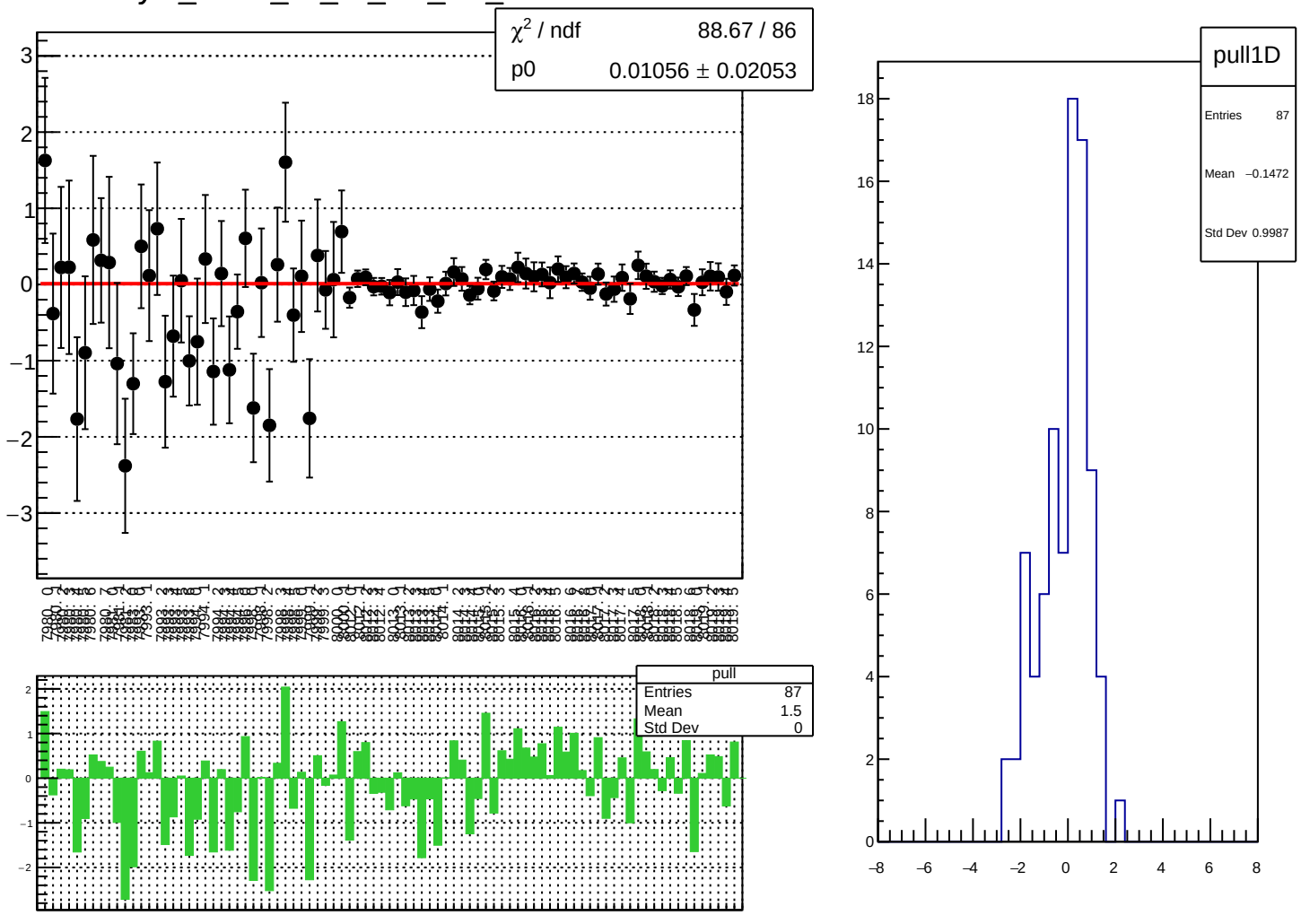

pull1D
Entries 87
Mean −0.03163
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

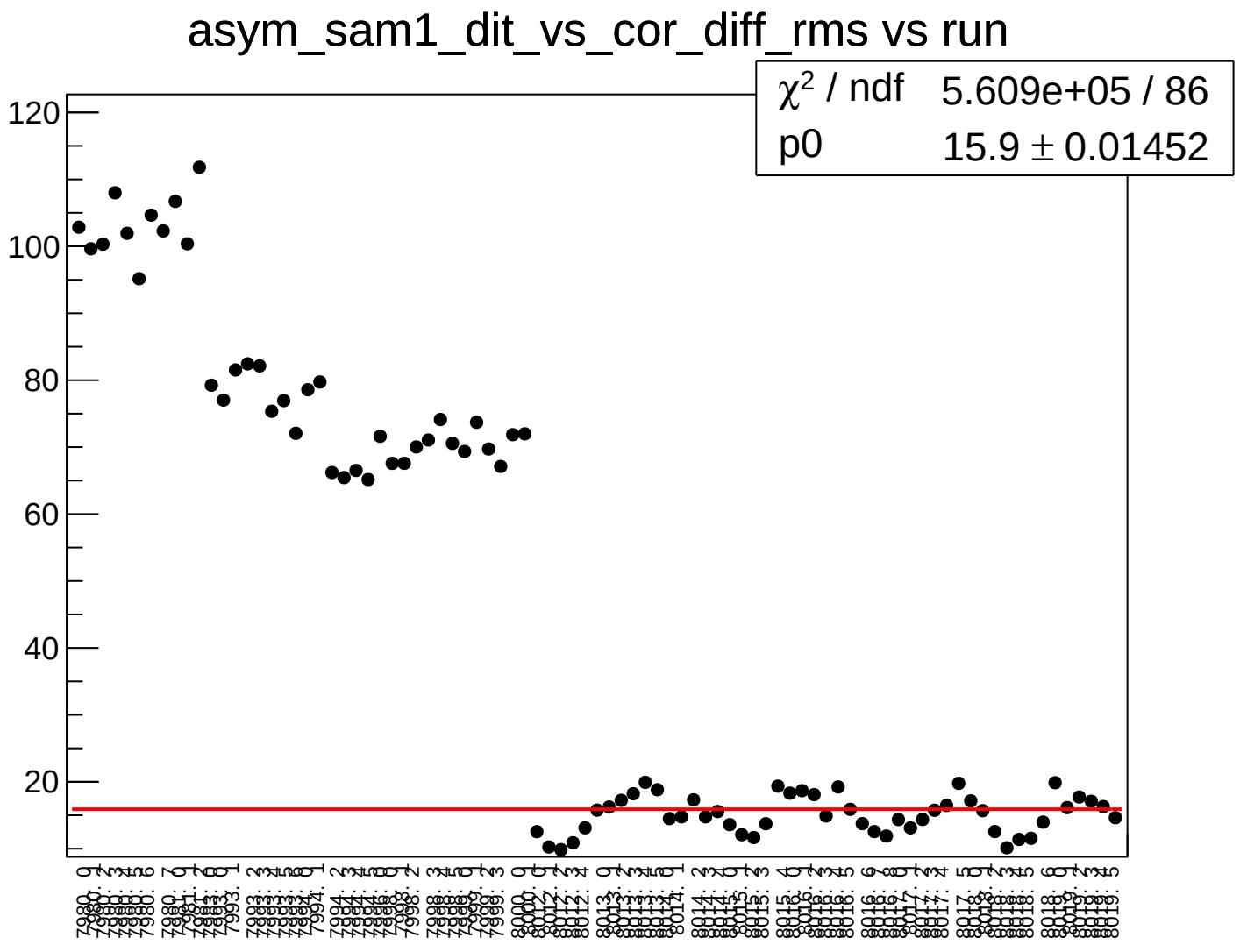

asym_sam1_rms vs run
χ^2 / ndf 2.11e+04 / 86
p0 426.9 ± 0.3236
600
550
500
450
400
350

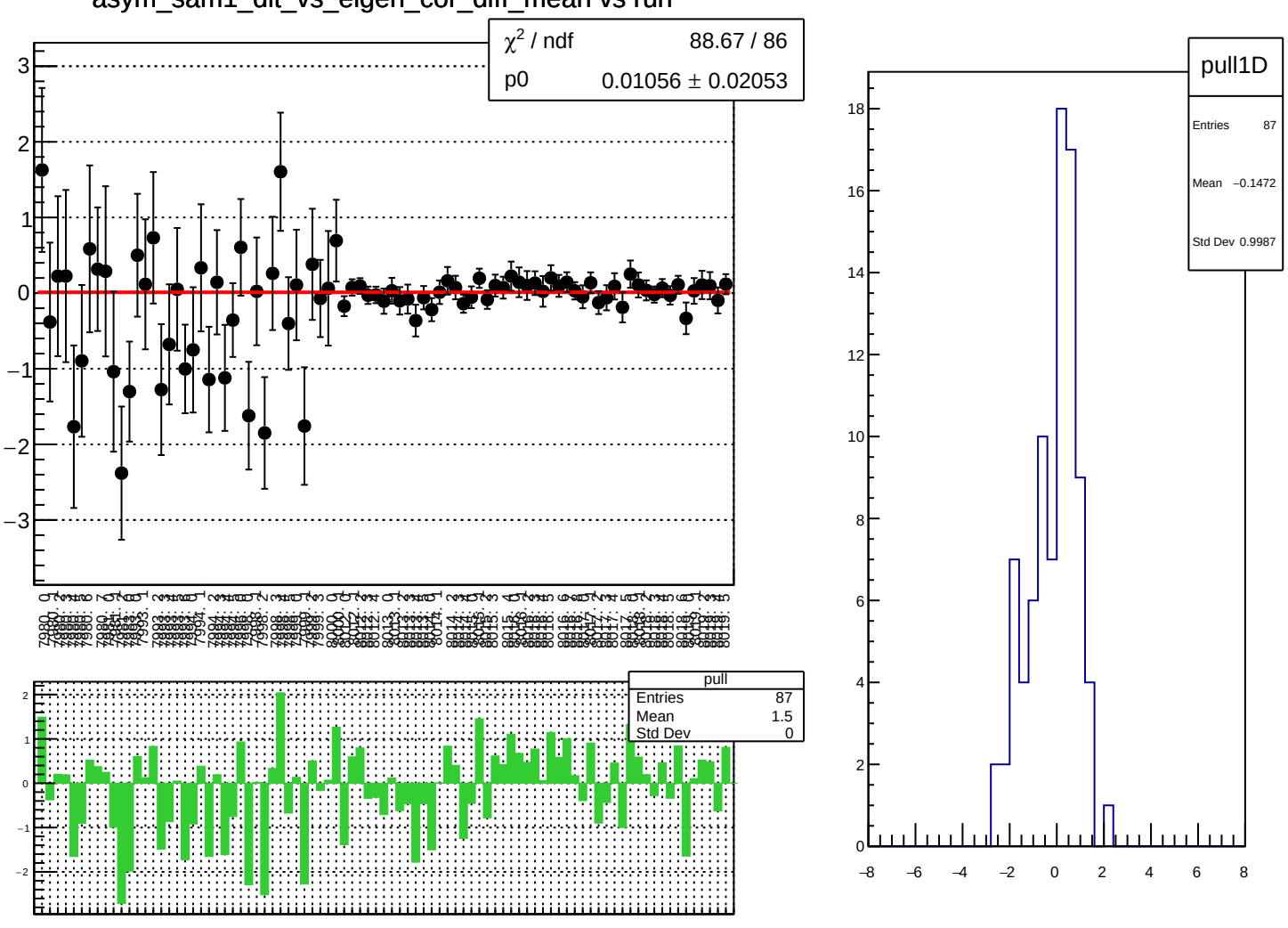

asym_sam1_reg_vs_cor_diff_mean vs run
×10−3
χ2 / ndf 71.62 / 86
p0 2.734e−14 ± 6.646e−14
pull
Entries 87
Mean 19.94
Std Dev 17.07

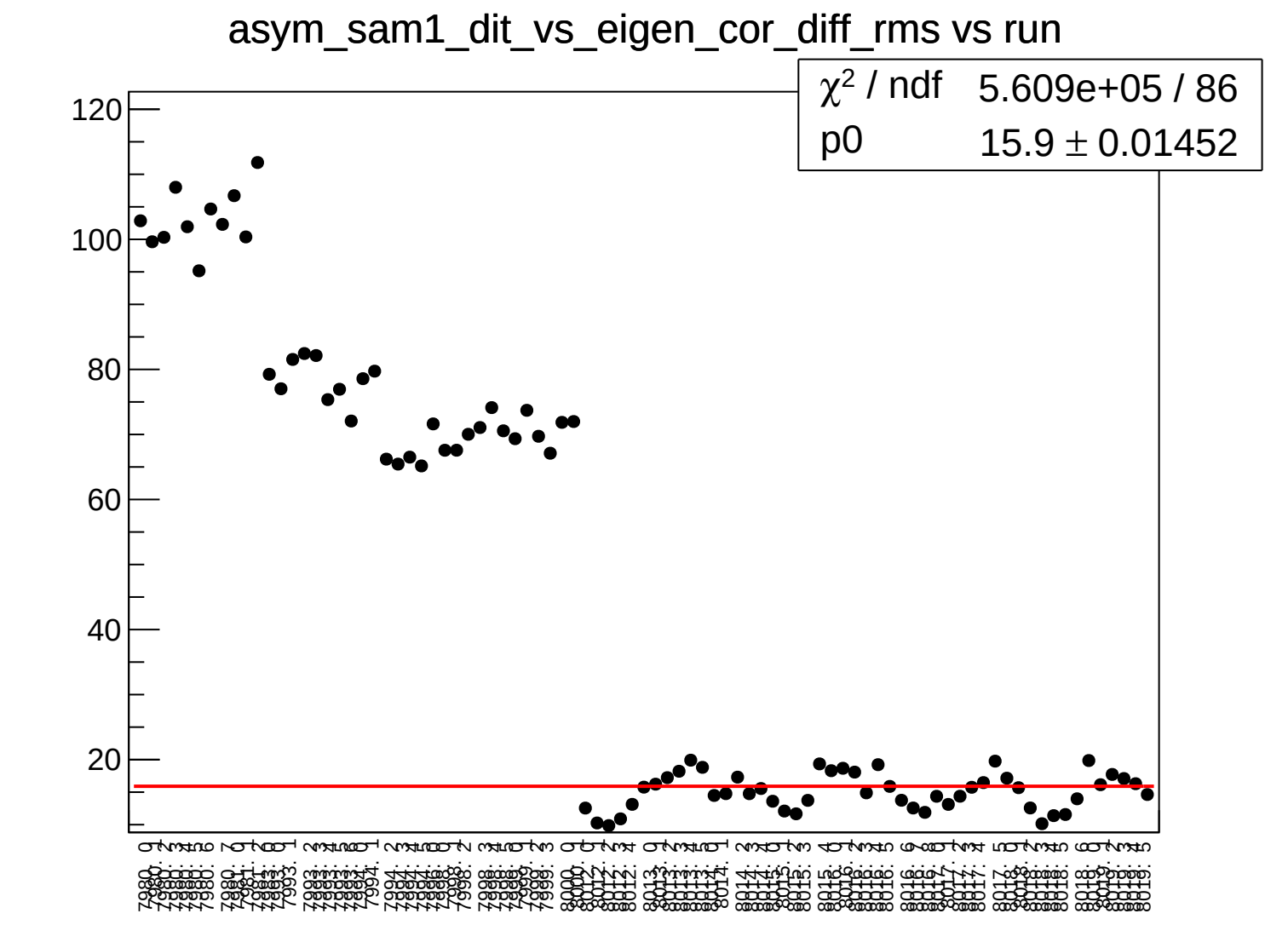

pull1D
Entries 87
Mean 0.11
Std Dev 0.9006

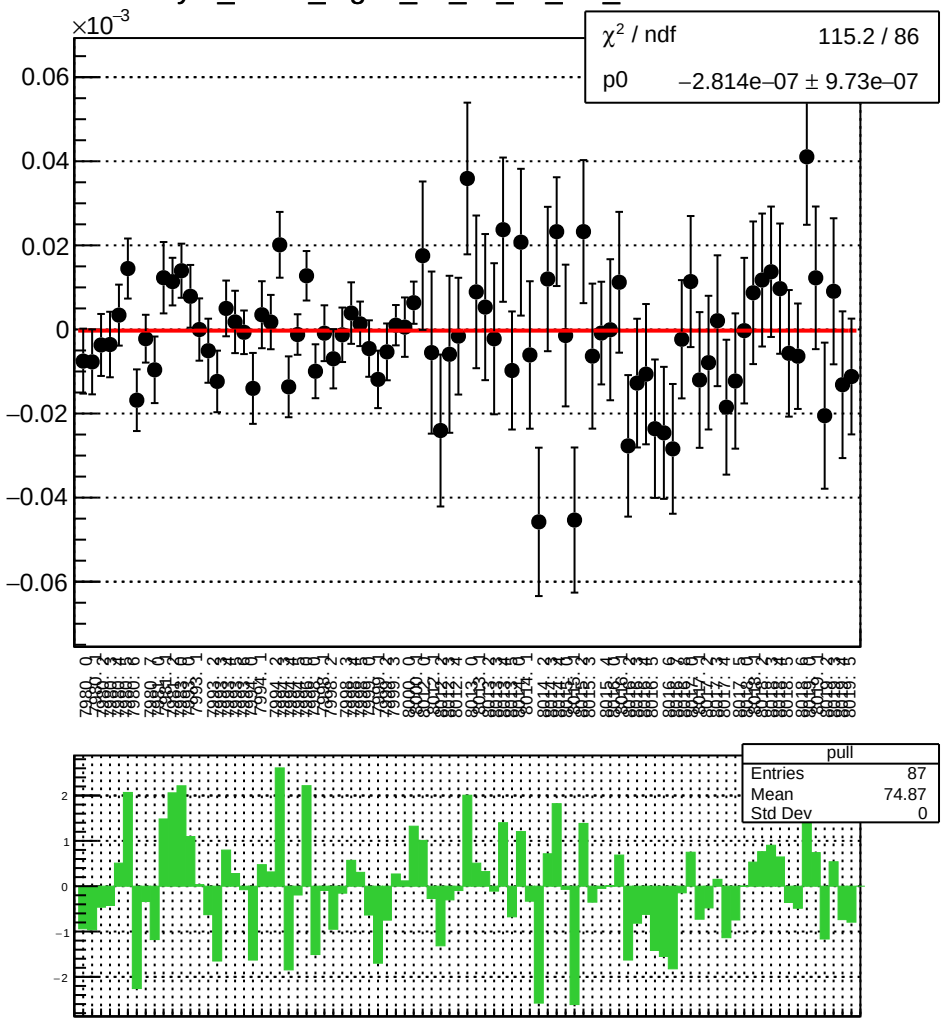

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.802e+05 / 86
p0 4.152e−11 ± 4.699e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

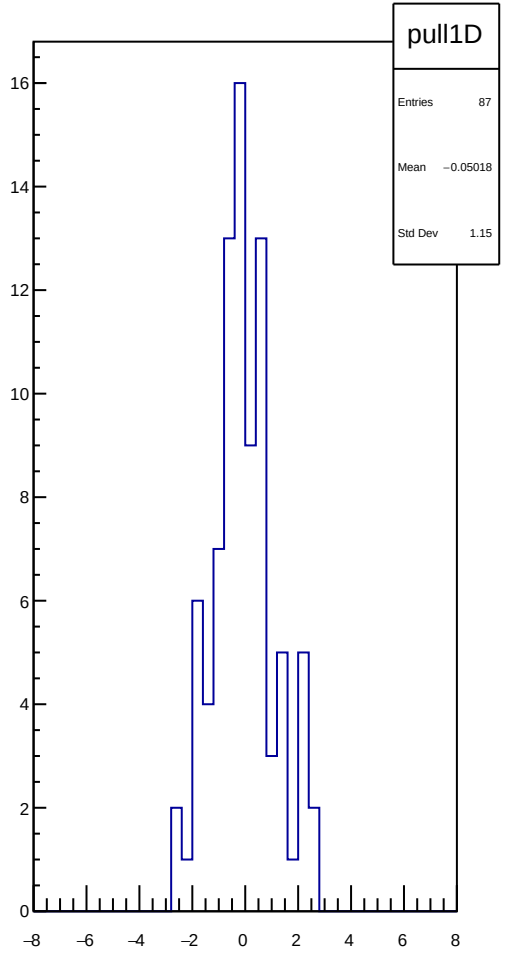

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 88.67 / 86
p0 0.01056 ± 0.02053
pull
Entries 87
Mean 1.5
Std Dev 0
pull1D
Entries 87
Mean −0.1472
Std Dev 0.9987

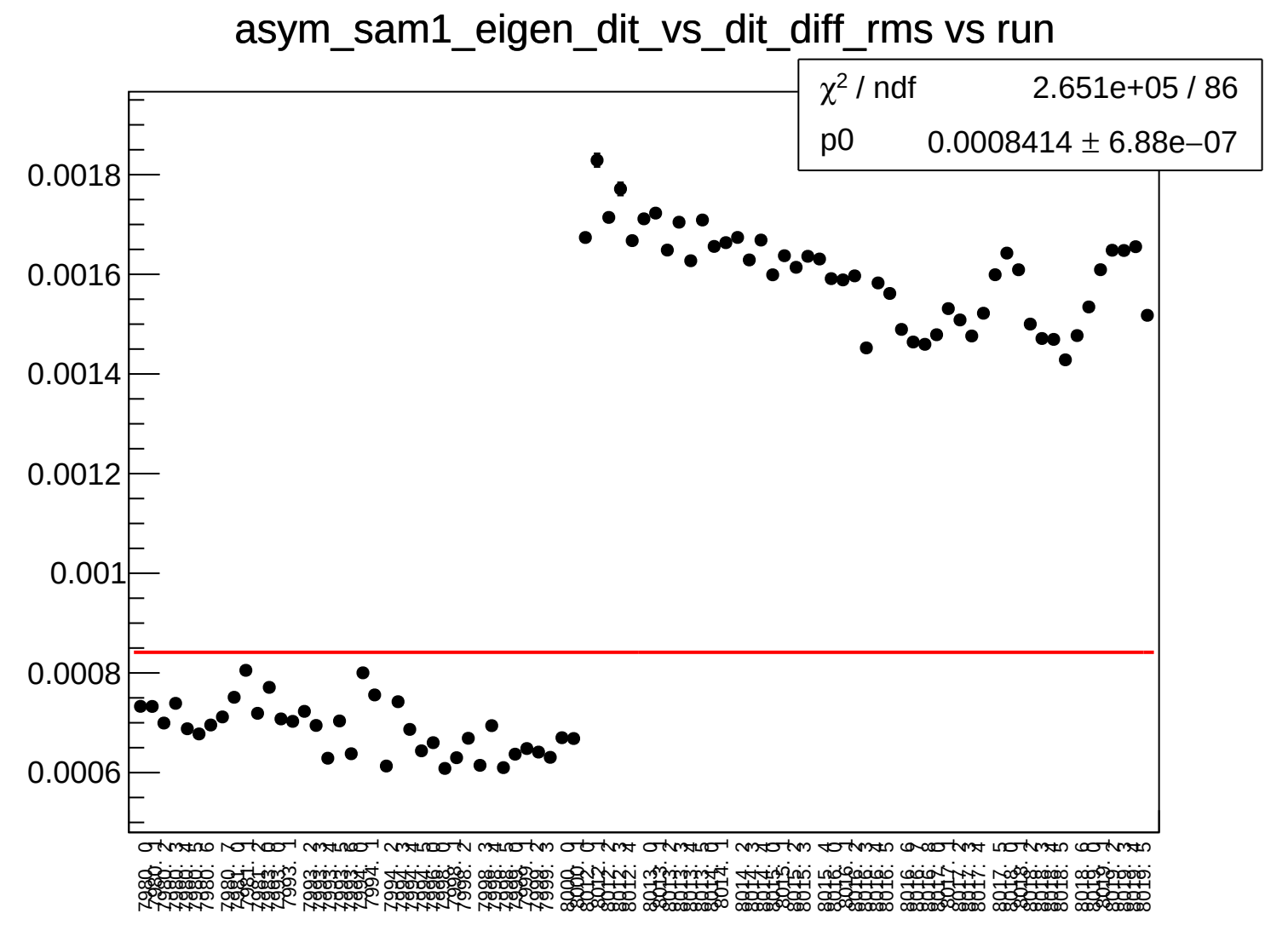

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 5.609e+05 / 86
p0 15.9 ± 0.01452
120
100
80
60
40
20

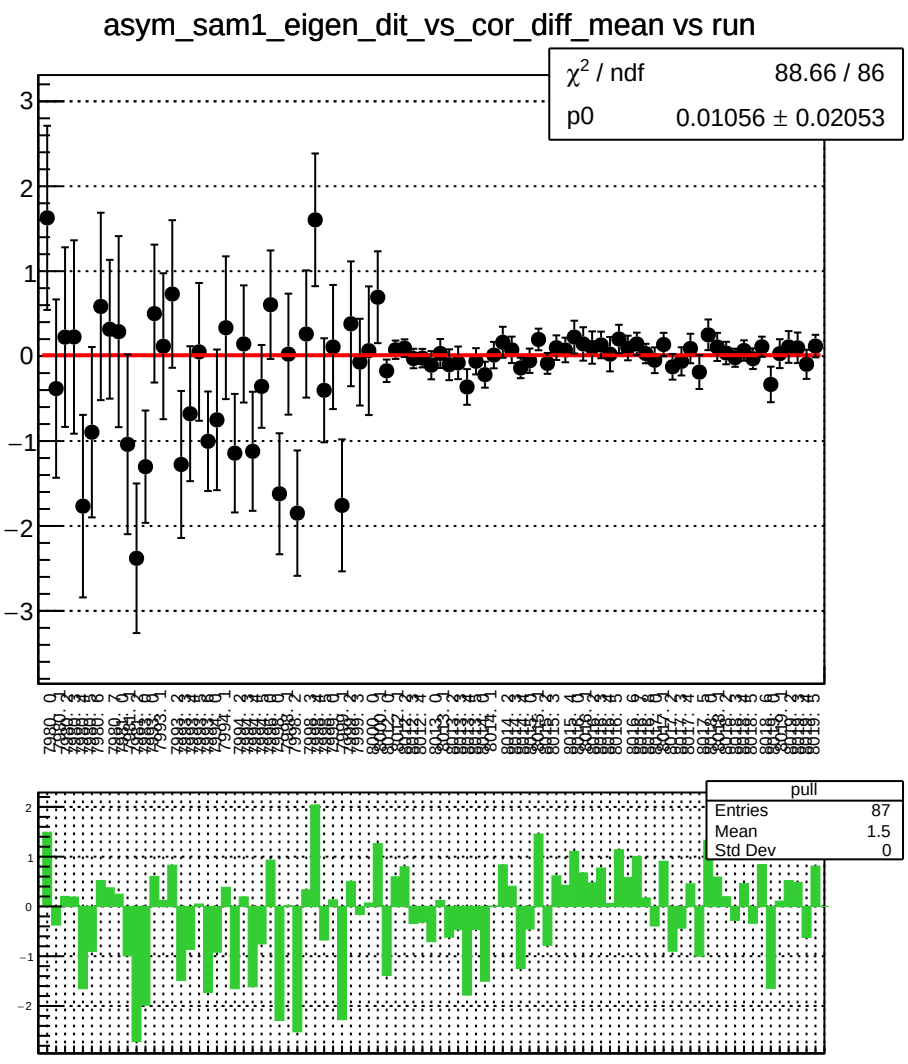

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.67 / 86
p0 0.01056 ± 0.02053
pull
Entries 87
Mean 1.5
Std Dev 0
pull1D
Entries 87
Mean −0.1472
Std Dev 0.9987

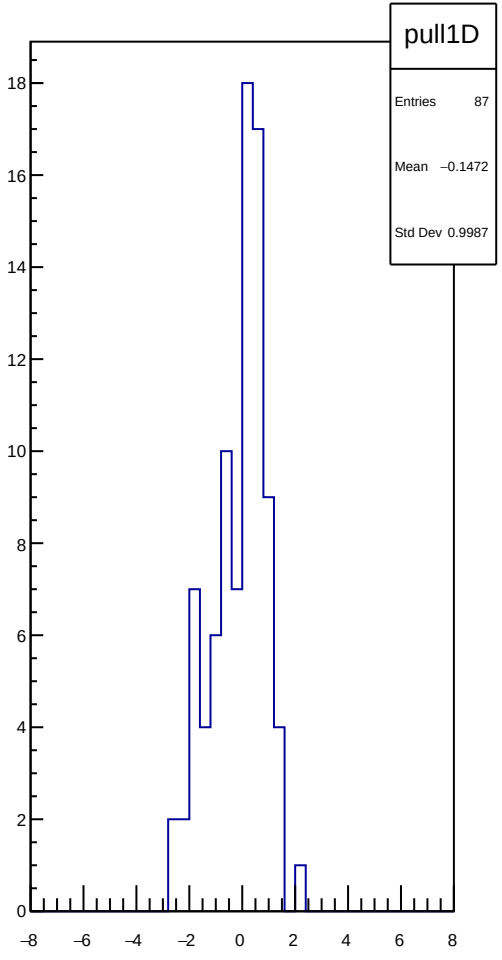

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.609e+05 / 86
p0 15.9 ± 0.01452
120
100
80
60
40
20

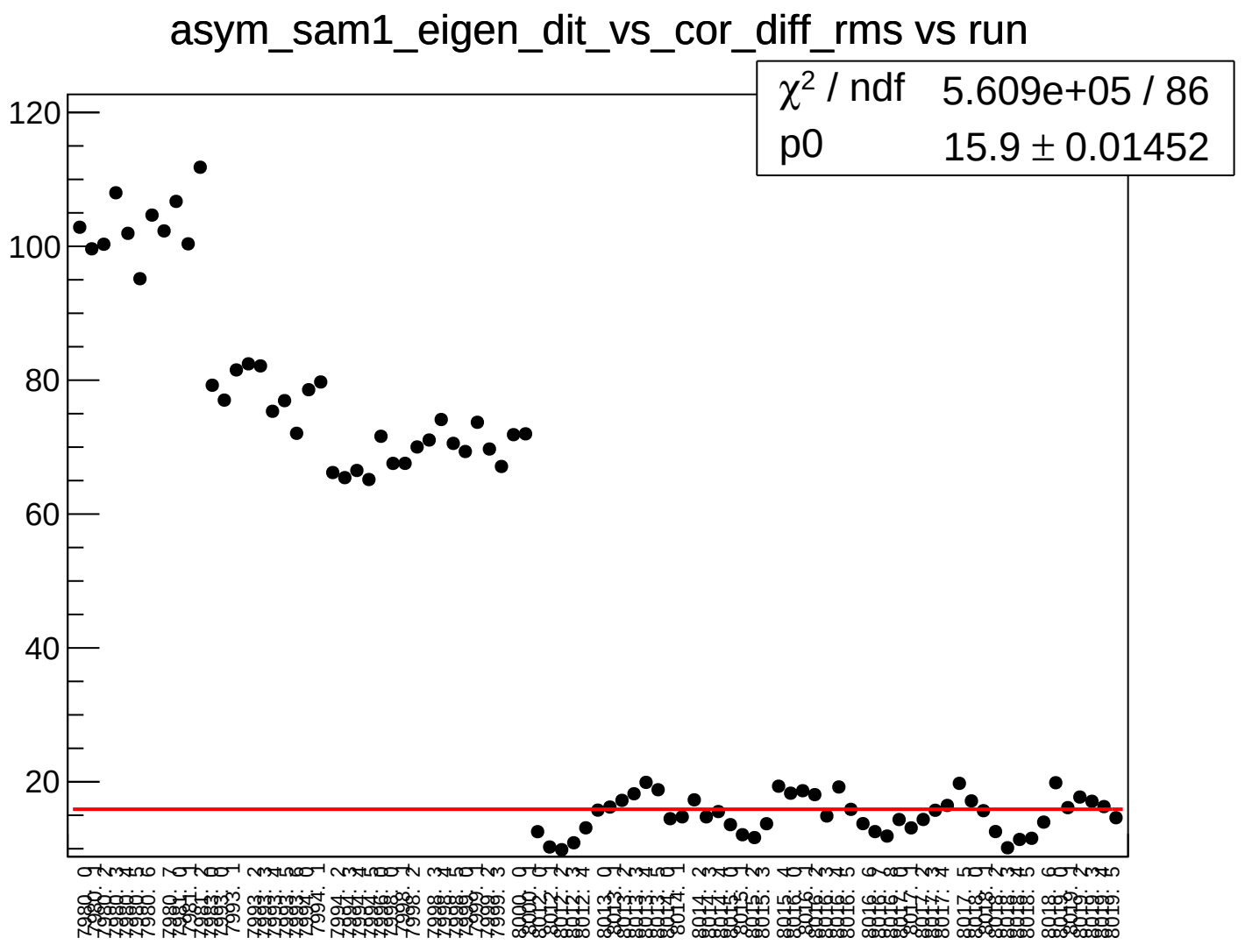

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.2 / 86
p0 −2.814e−07 ± 9.73e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean 74.87
Std Dev 0
2
1
0
−1
−2

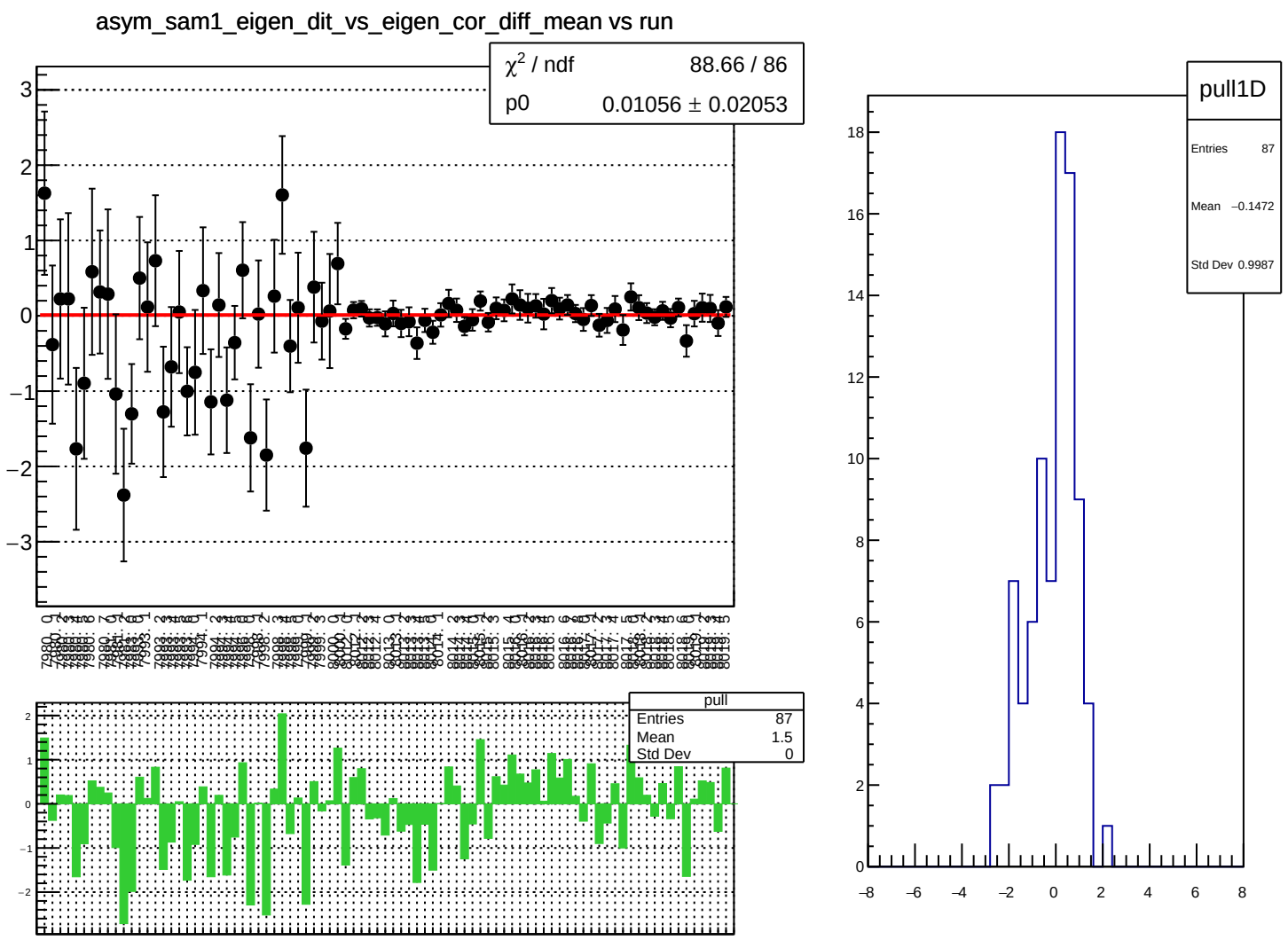

pull1D
Entries 87
Mean −0.05018
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

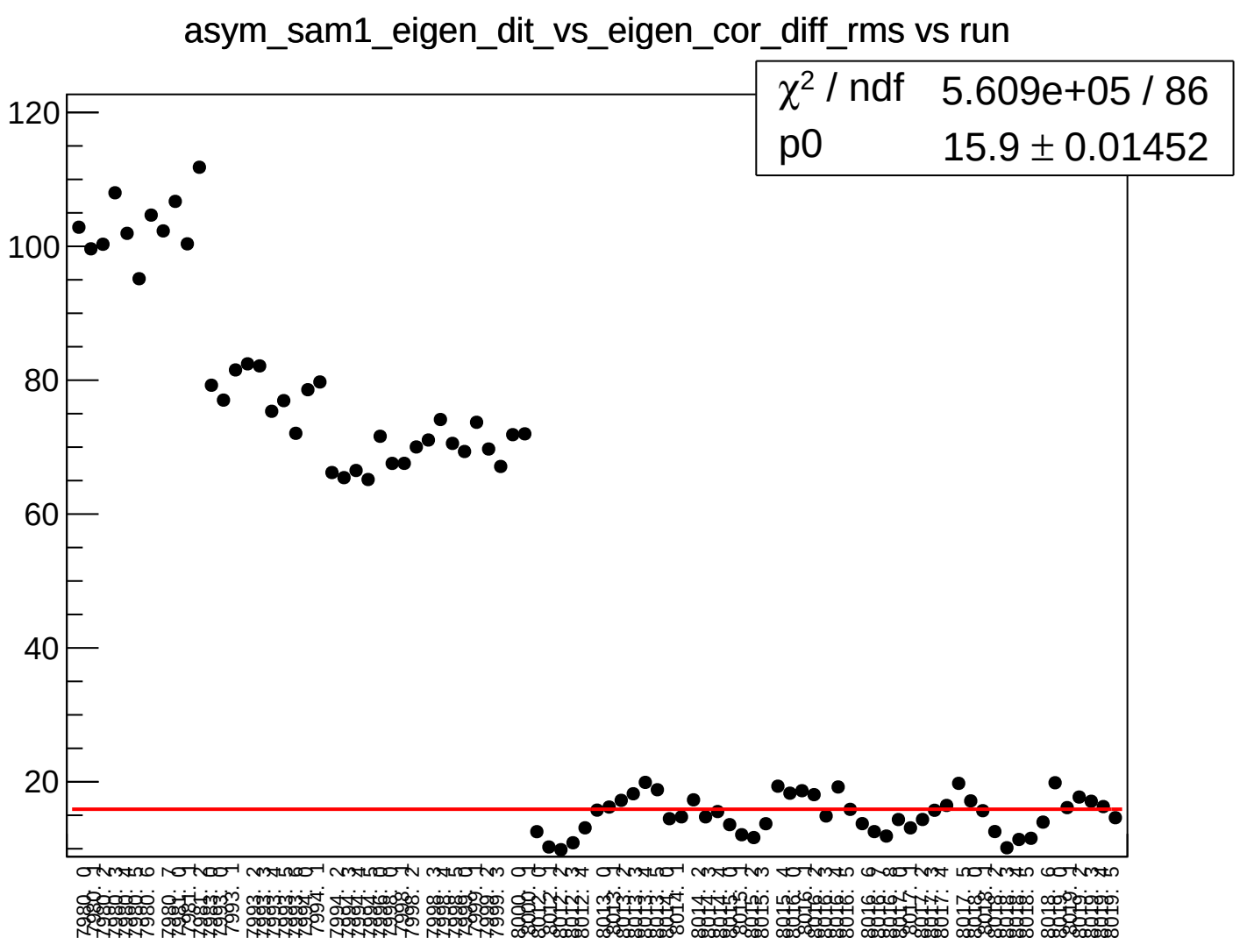

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.651e+05 / 86
p0 0.0008414 ± 6.88e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

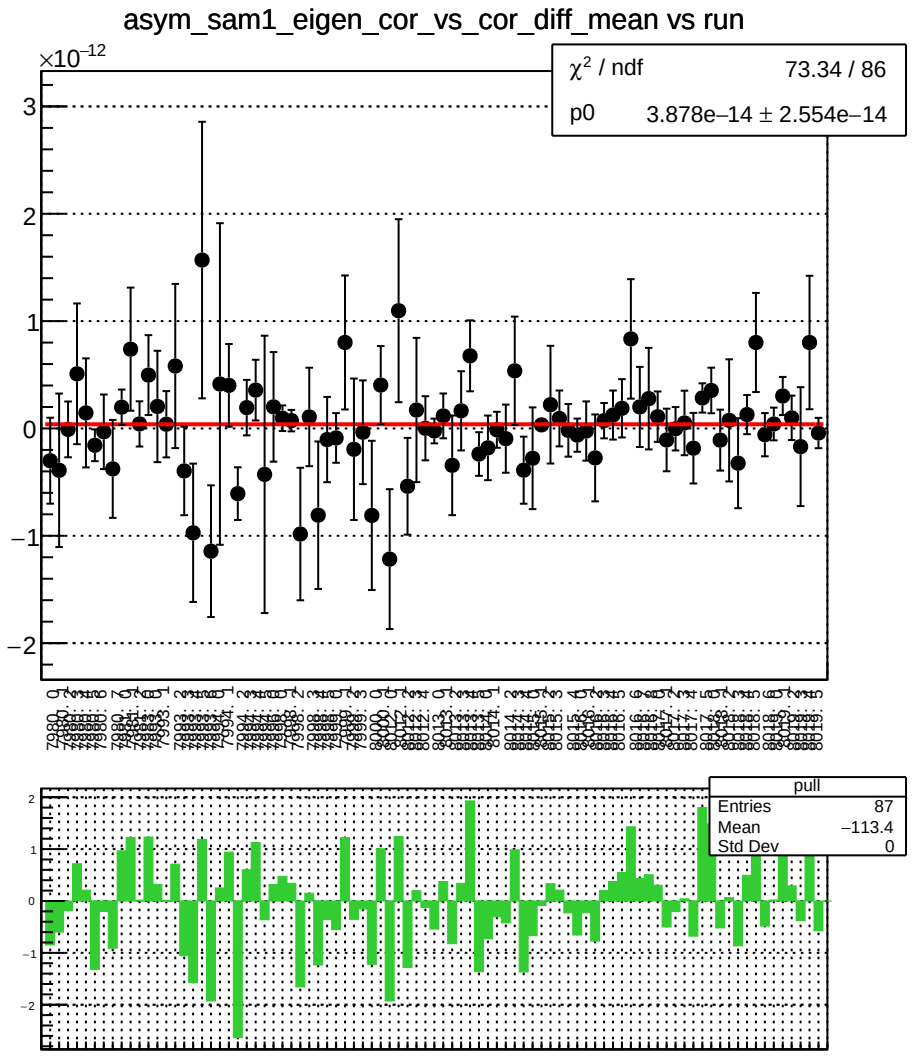

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.66 / 86
p0 0.01056 ± 0.02053
pull
Entries 87
Mean 1.5
Std Dev 0

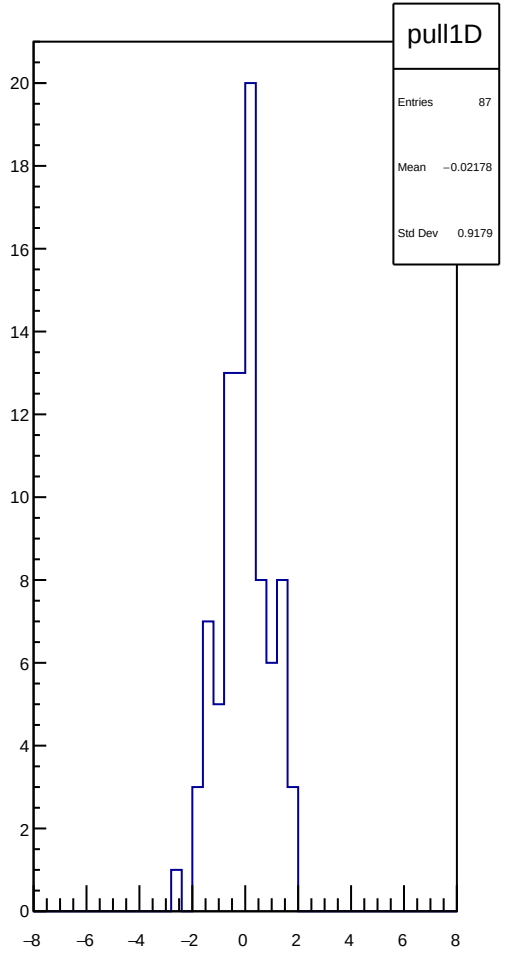

pull1D
Entries 87
Mean −0.1472
Std Dev 0.9987

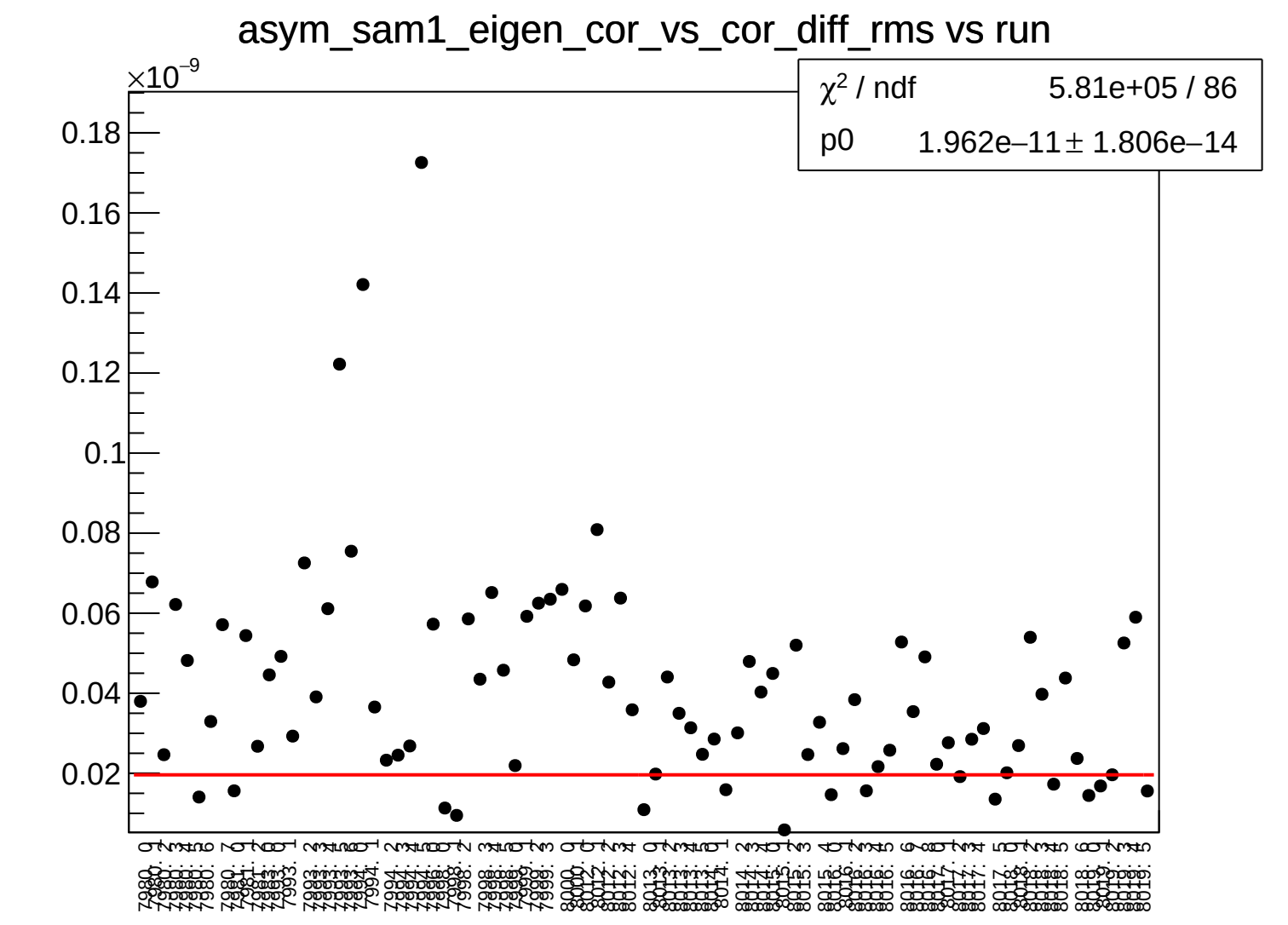

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.609e+05 / 86
p0 15.9 ± 0.01452
120
100
80
60
40
20

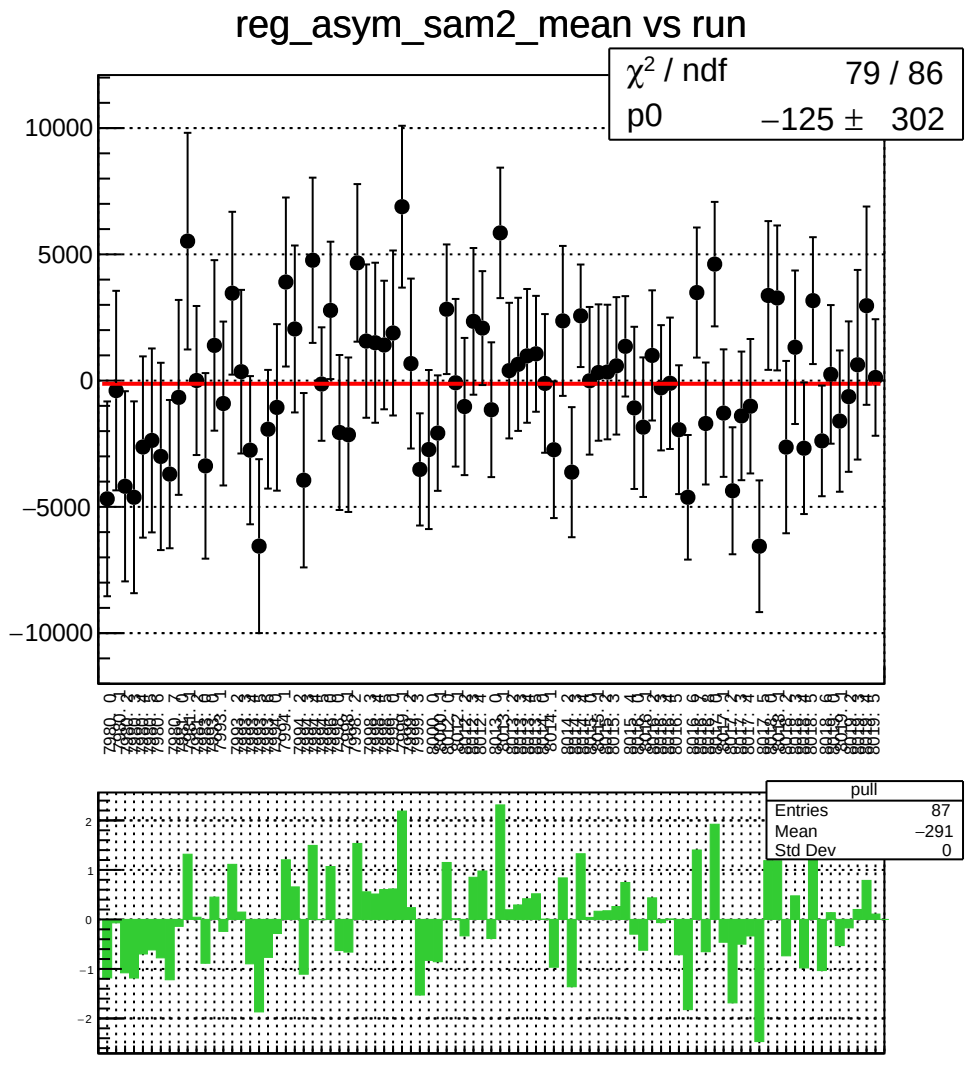

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.66 / 86
p0 0.01056 ± 0.02053
pull
Entries 87
Mean 1.5
Std Dev 0
pull1D
Entries 87
Mean −0.1472
Std Dev 0.9987

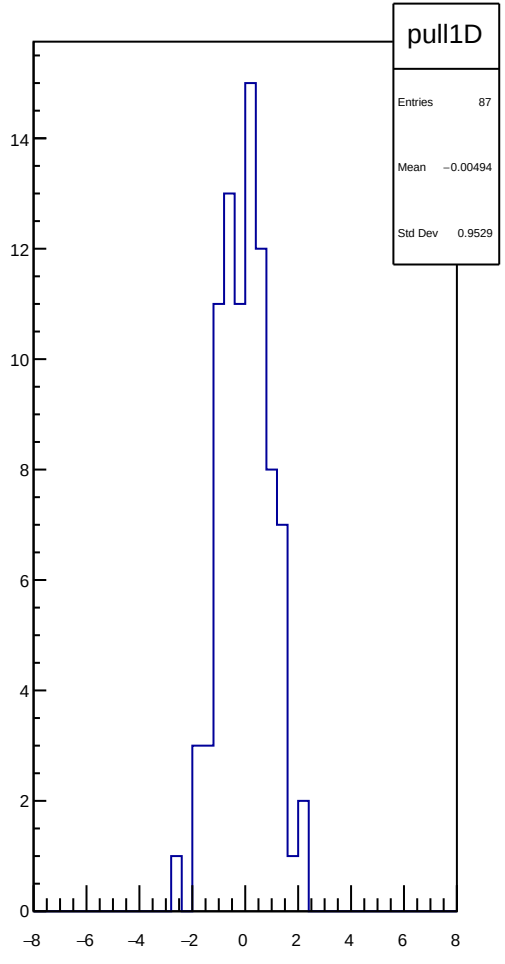

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.609e+05 / 86
p0 15.9 ± 0.01452
120
100
80
60
40
20

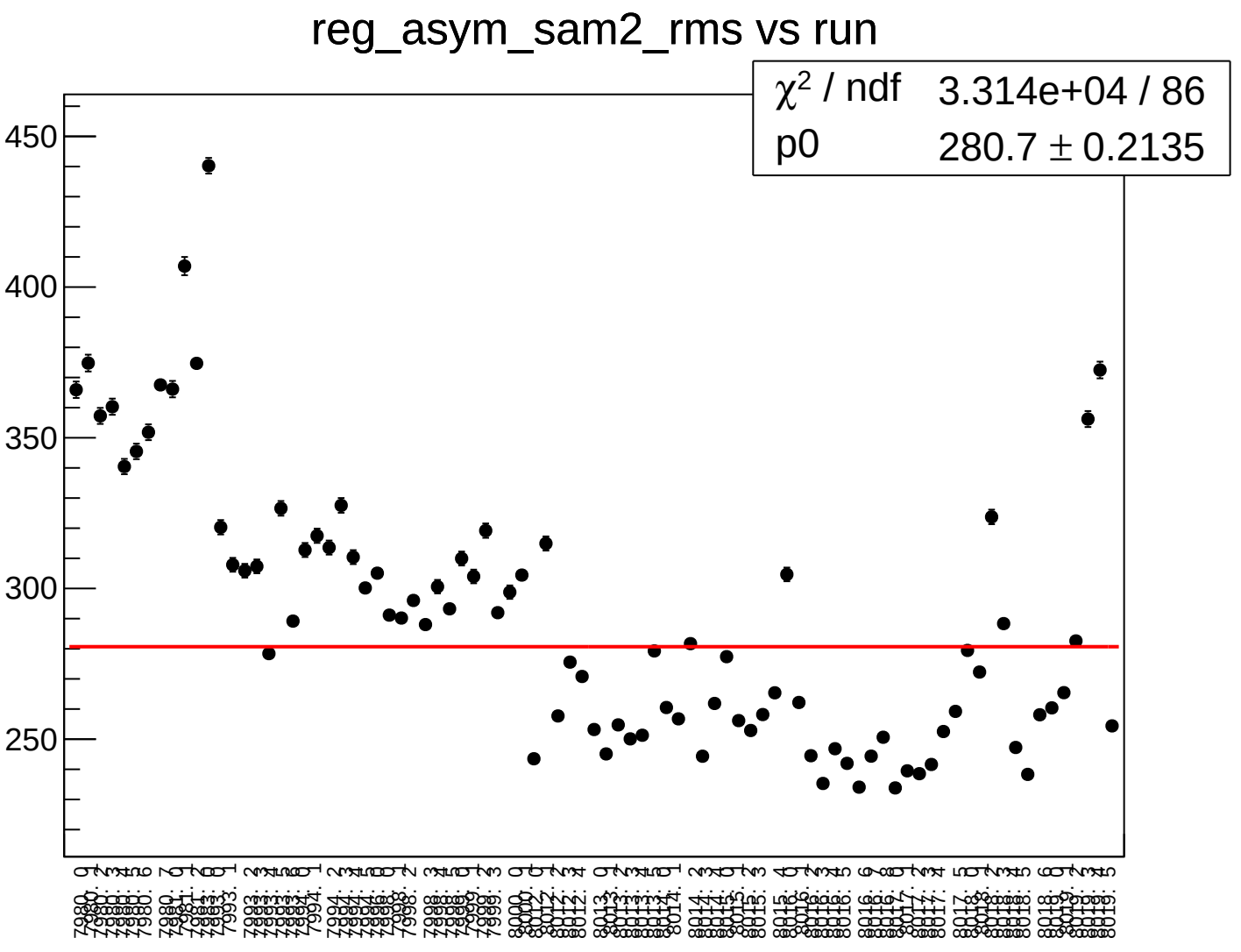

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.34 / 86
p0 3.878e−14 ± 2.554e−14
pull
Entries 87
Mean −113.4
Std Dev 0

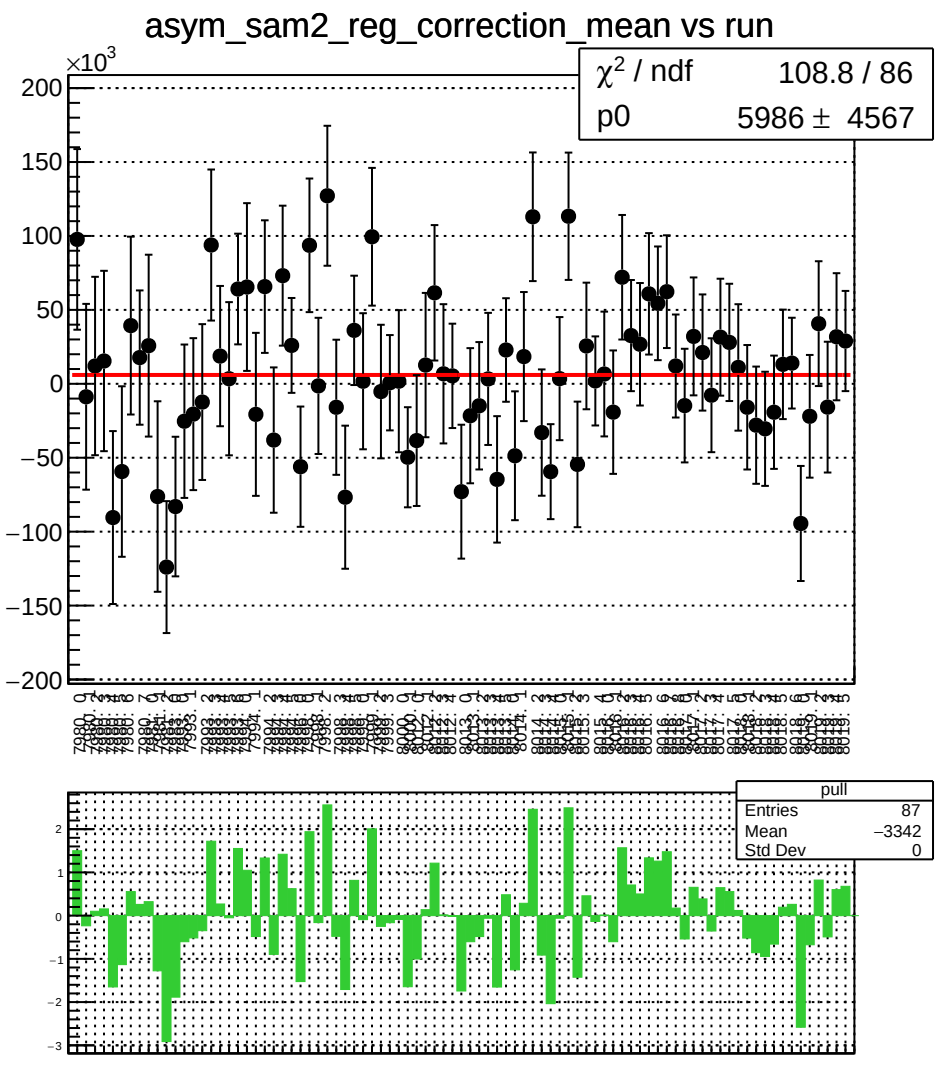

pull1D
Entries 87
Mean −0.02178
Std Dev 0.9179

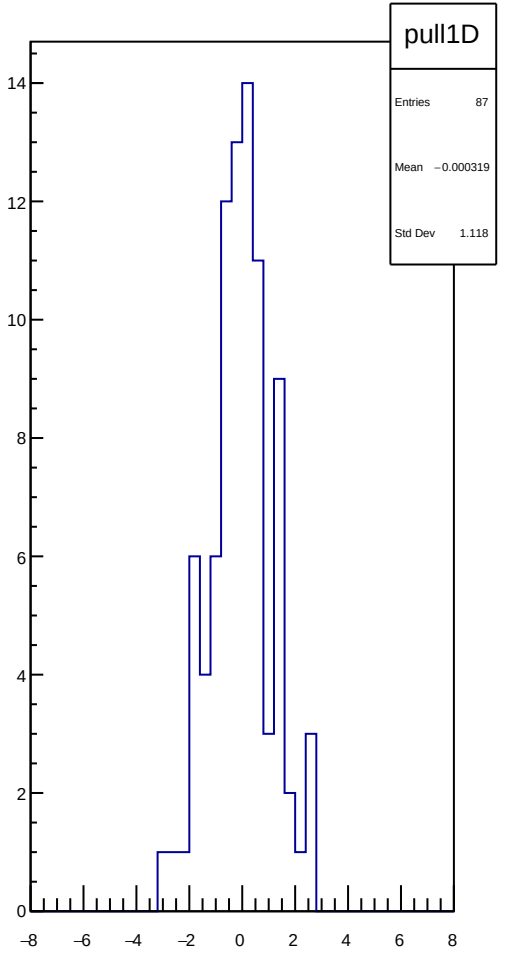

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.81e+05 / 86
p0 1.962e−11 ± 1.806e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

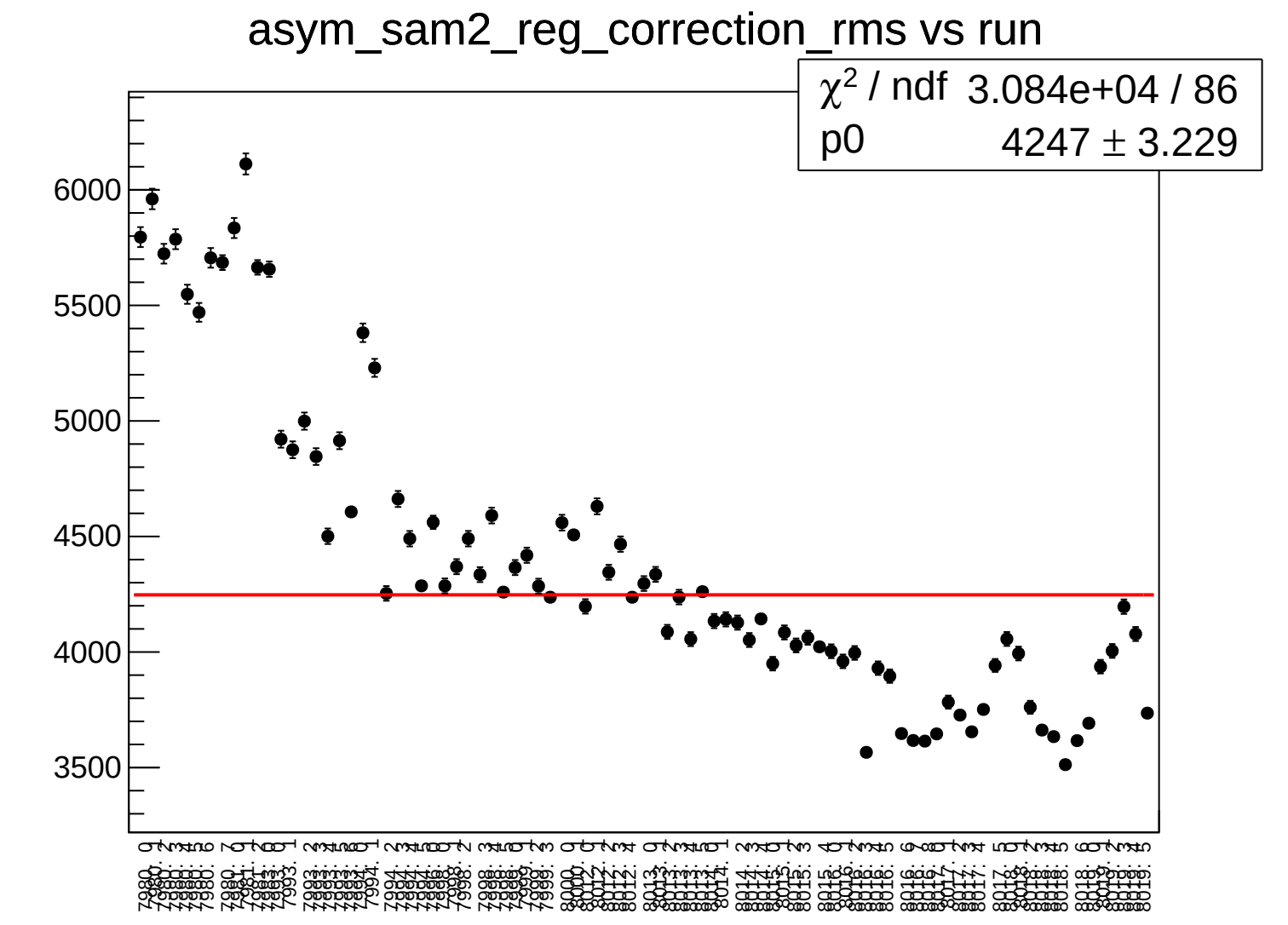

reg_asym_sam2_mean vs run
χ² / ndf 79 / 86
p0 −125 ± 302
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −291
Std Dev 0
2
1
0
−1
−2

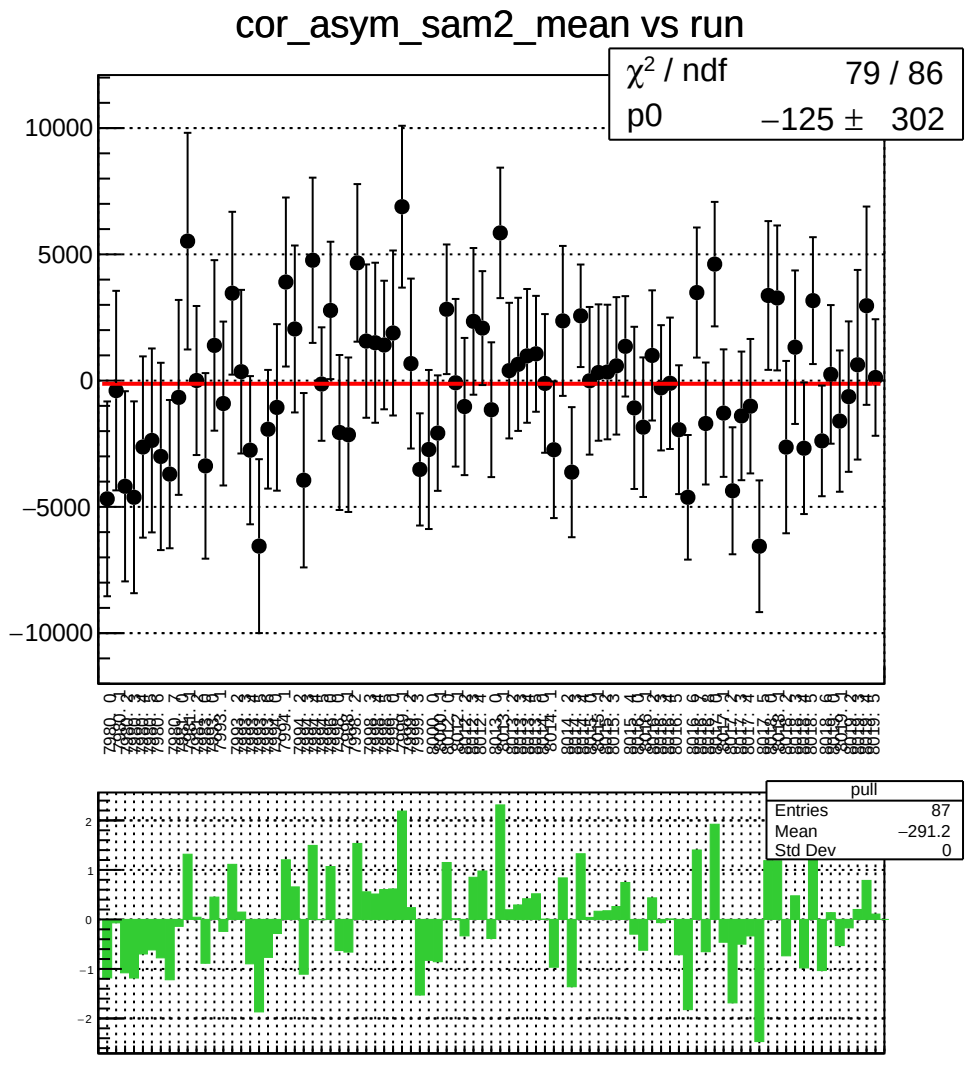

pull1D
Entries 87
Mean −0.00494
Std Dev 0.9529
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

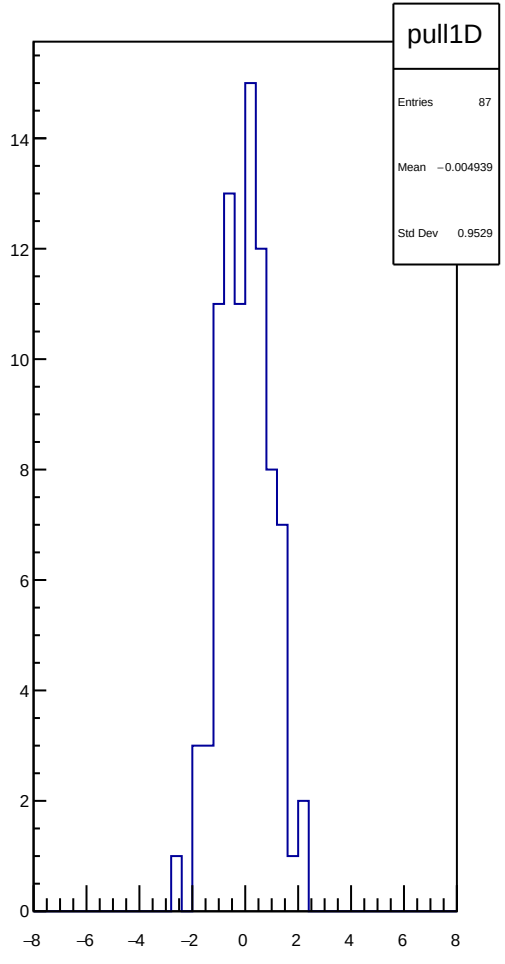

reg_asym_sam2_rms vs run
χ² / ndf 3.314e+04 / 86
p0 280.7 ± 0.2135
450
400
350
300
250

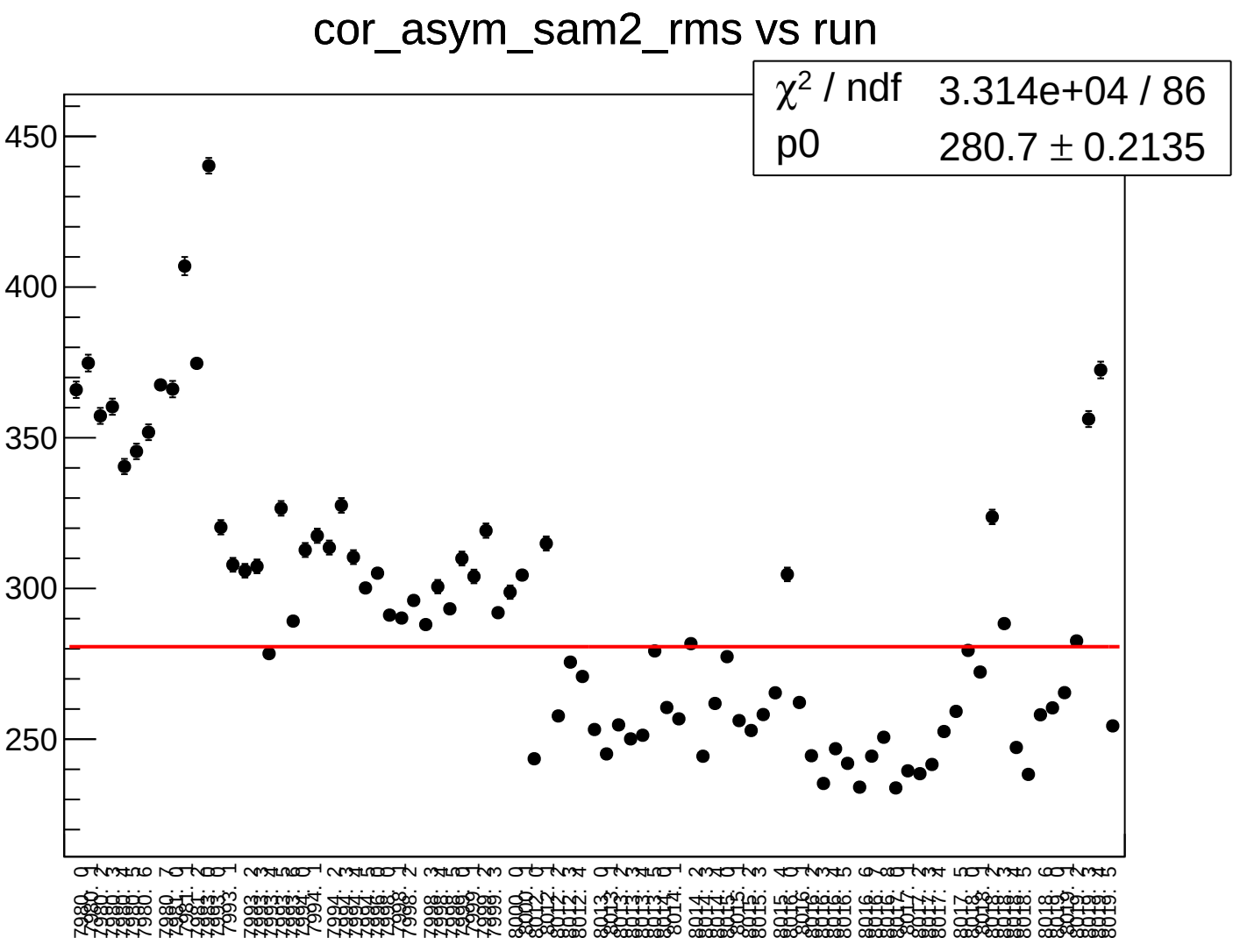

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 108.8 / 86
p0 5986 ± 4567
pull
Entries 87
Mean −3342
Std Dev 0

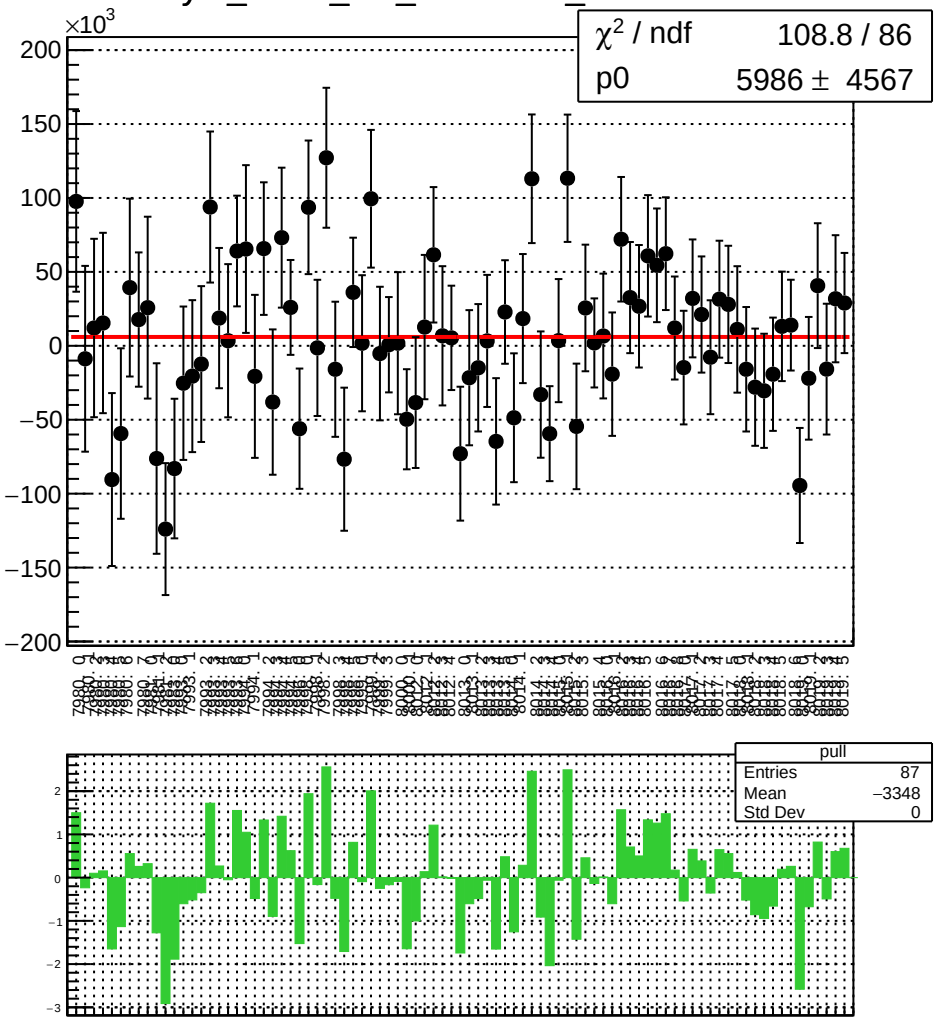

pull1D
Entries 87
Mean −0.000319
Std Dev 1.118

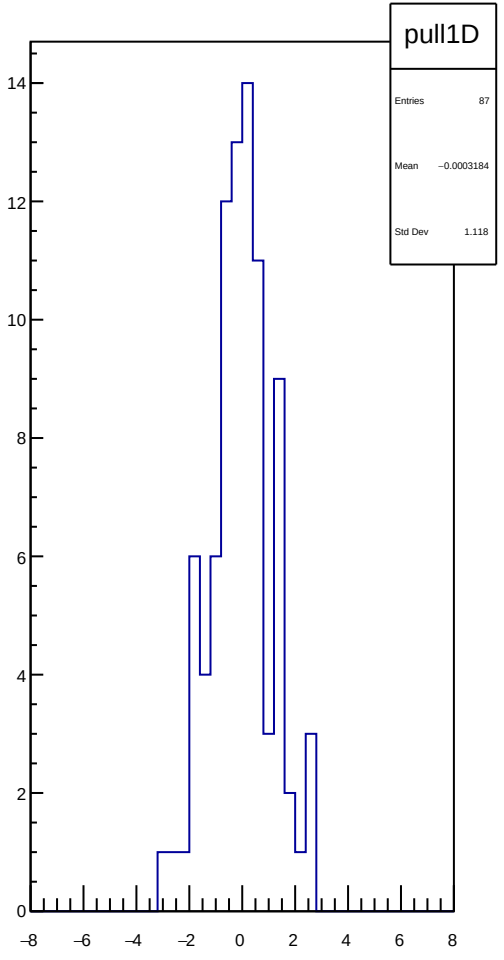

asym_sam2_reg_correction_rms vs run
χ² / ndf 3.084e+04 / 86
p0 4247 ± 3.229
6000
5500
5000
4500
4000
3500

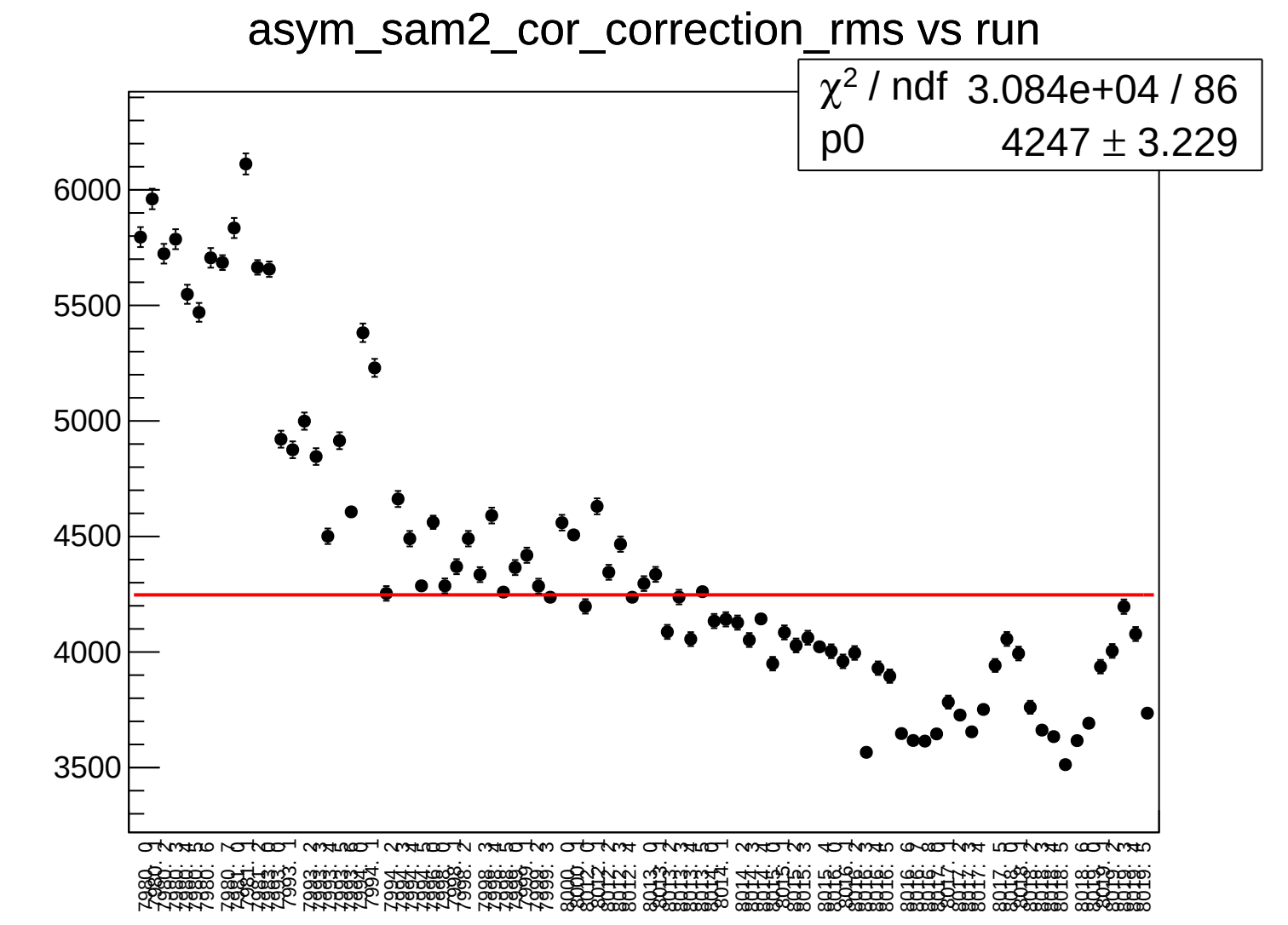

cor_asym_sam2_mean vs run
χ² / ndf 79 / 86
p0 −125 ± 302
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −291.2
Std Dev 0
2
1
0
−1
−2

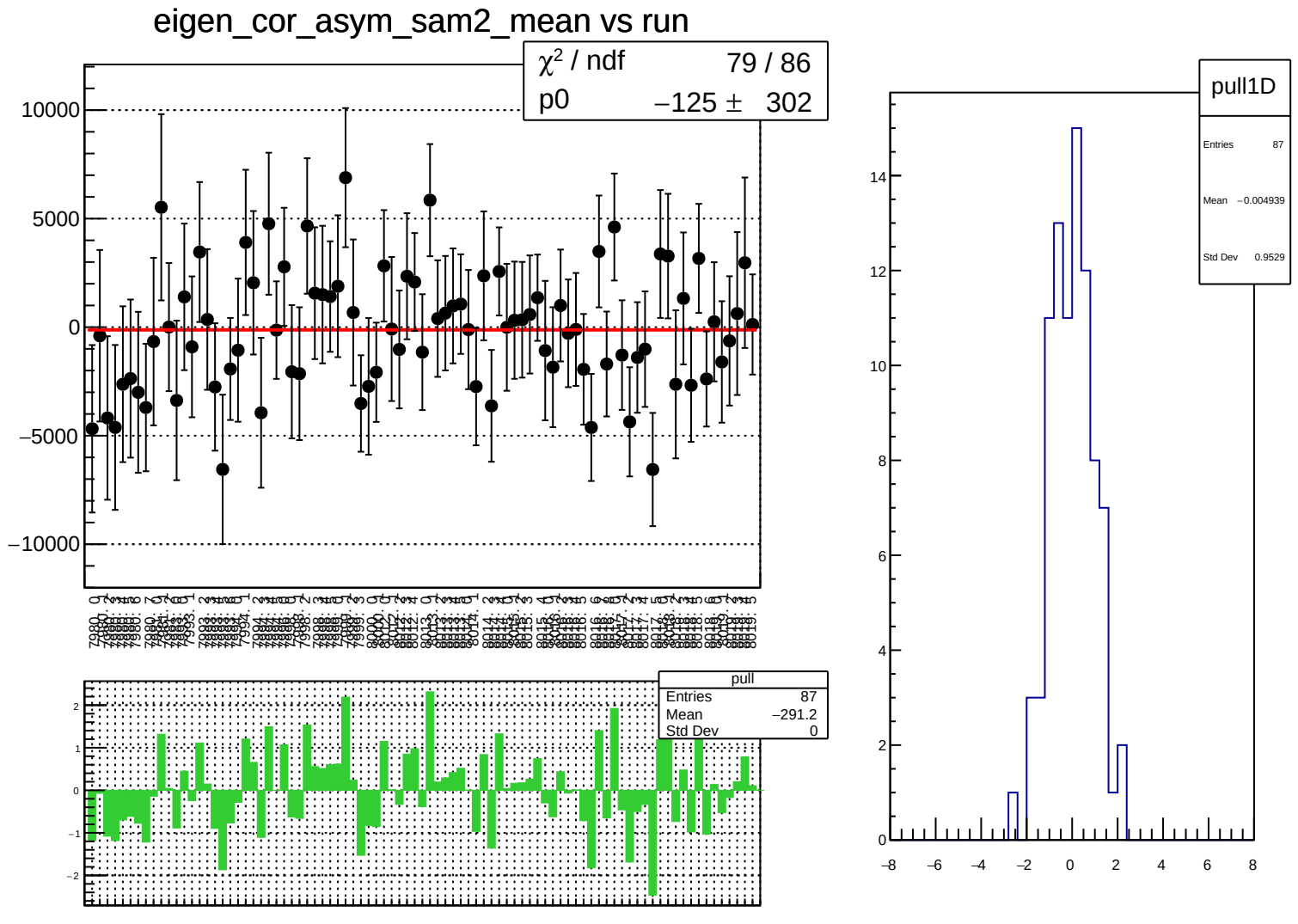

pull1D
Entries 87
Mean −0.004939
Std Dev 0.9529
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

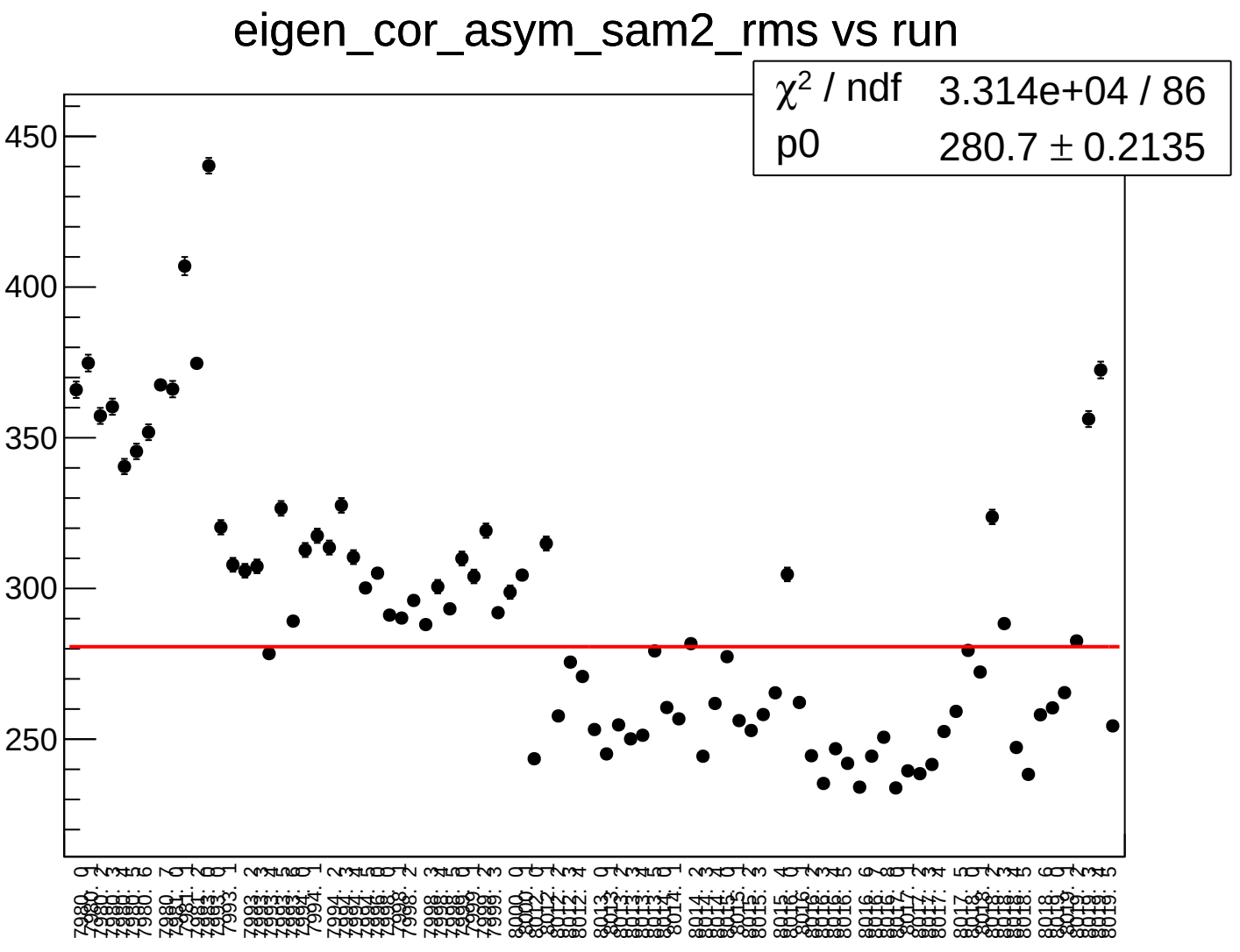

cor_asym_sam2_rms vs run
χ² / ndf 3.314e+04 / 86
p0 280.7 ± 0.2135
450
400
350
300
250

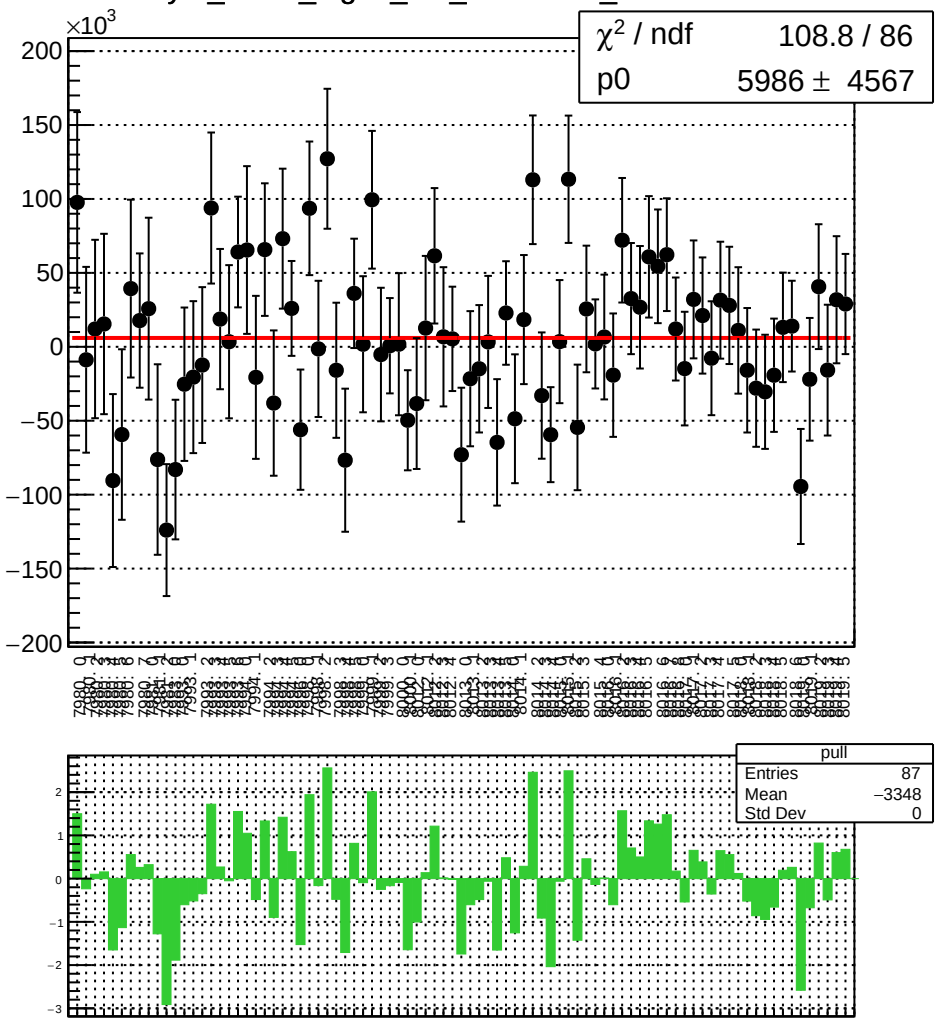

asym_sam2_cor_correction_mean vs run
χ² / ndf 108.8 / 86
p0 5986 ± 4567
pull
Entries 87
Mean −3348
Std Dev 0

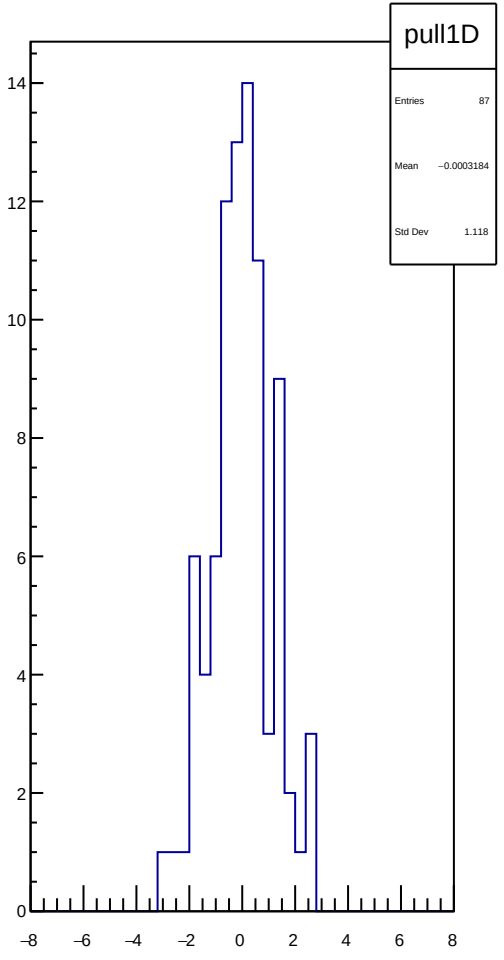

pull1D
Entries 87
Mean −0.0003184
Std Dev 1.118

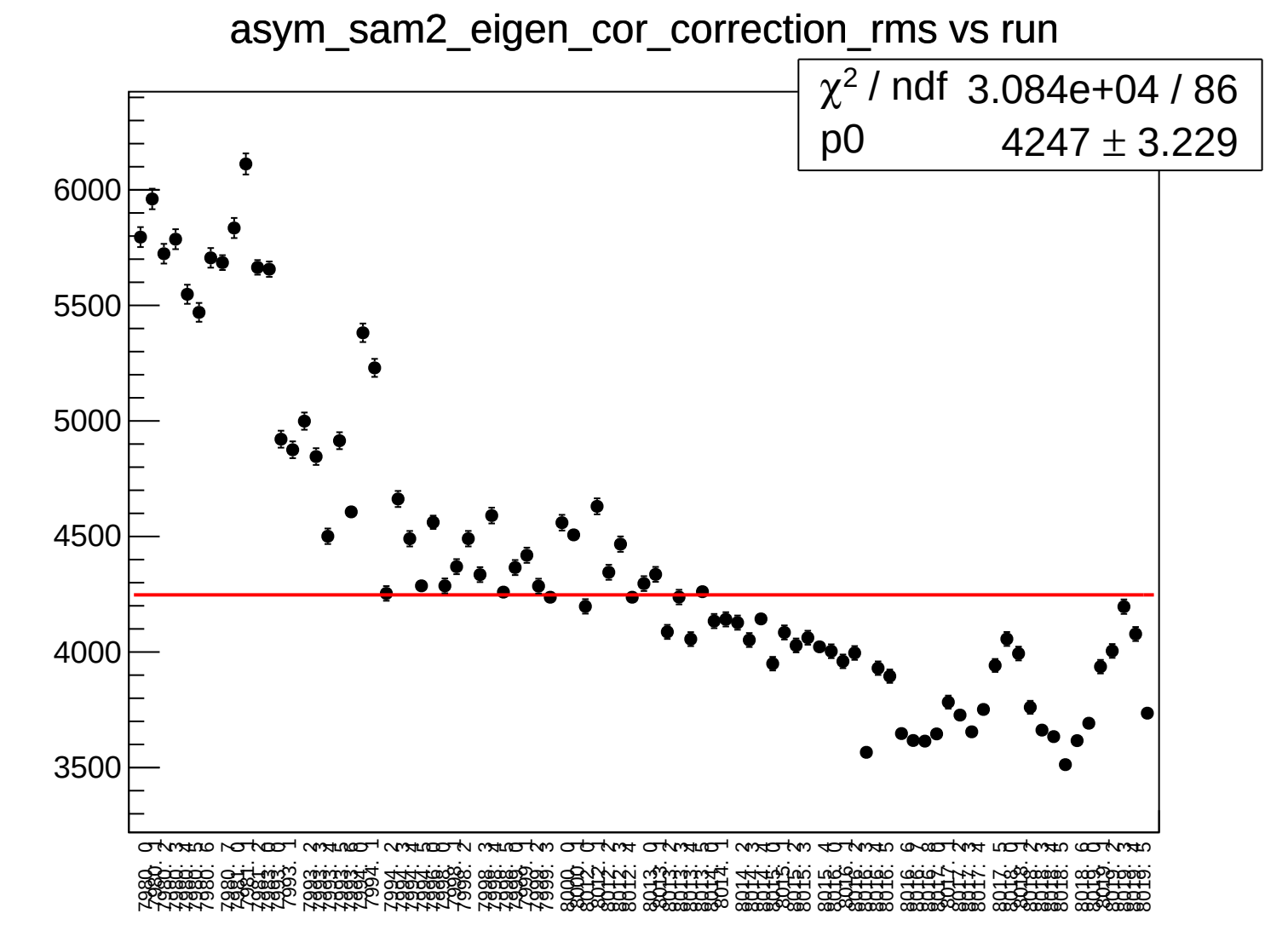

asym_sam2_cor_correction_rms vs run
χ² / ndf 3.084e+04 / 86
p0 4247 ± 3.229
6000
5500
5000
4500
4000
3500

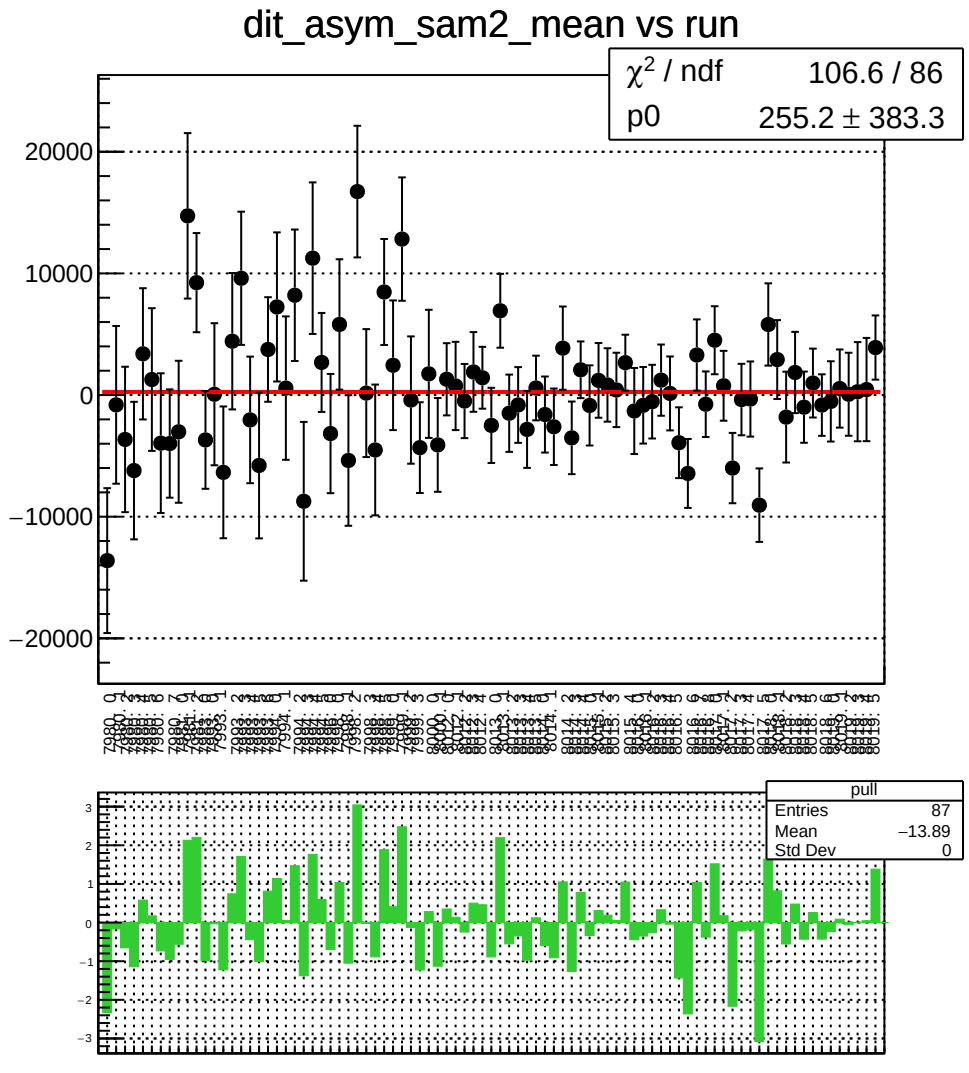

eigen_cor_asym_sam2_mean vs run
χ² / ndf 79 / 86
p0 −125 ± 302
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −291.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.004939
Std Dev 0.9529
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

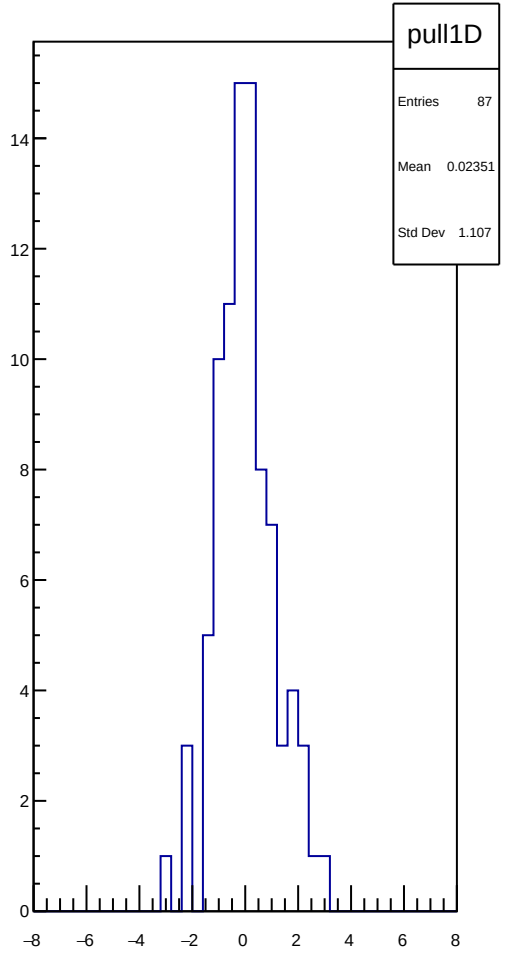

eigen_cor_asym_sam2_rms vs run
χ² / ndf 3.314e+04 / 86
p0 280.7 ± 0.2135
450
400
350
300
250

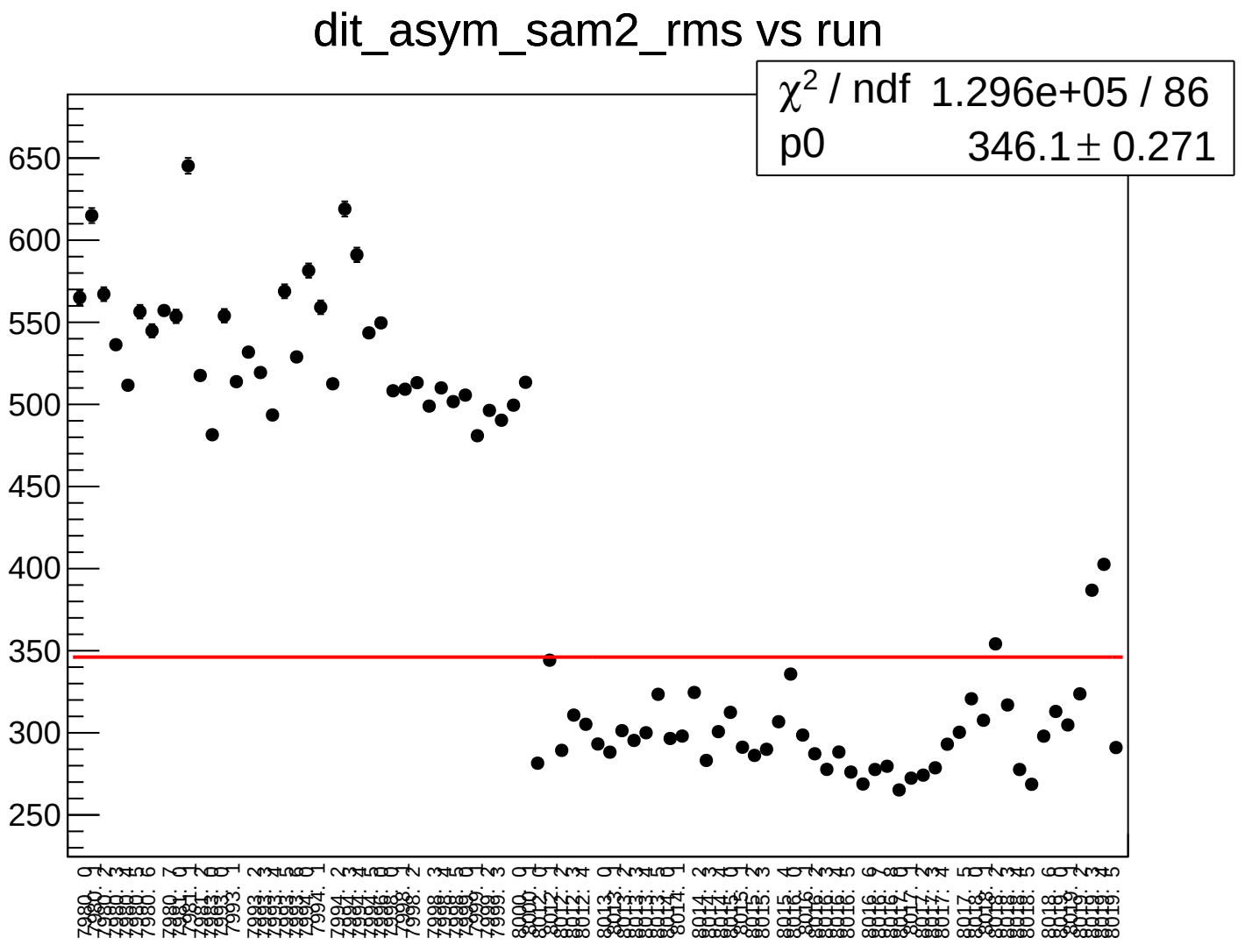

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 108.8 / 86
p0 5986 ± 4567
pull
Entries 87
Mean −3348
Std Dev 0

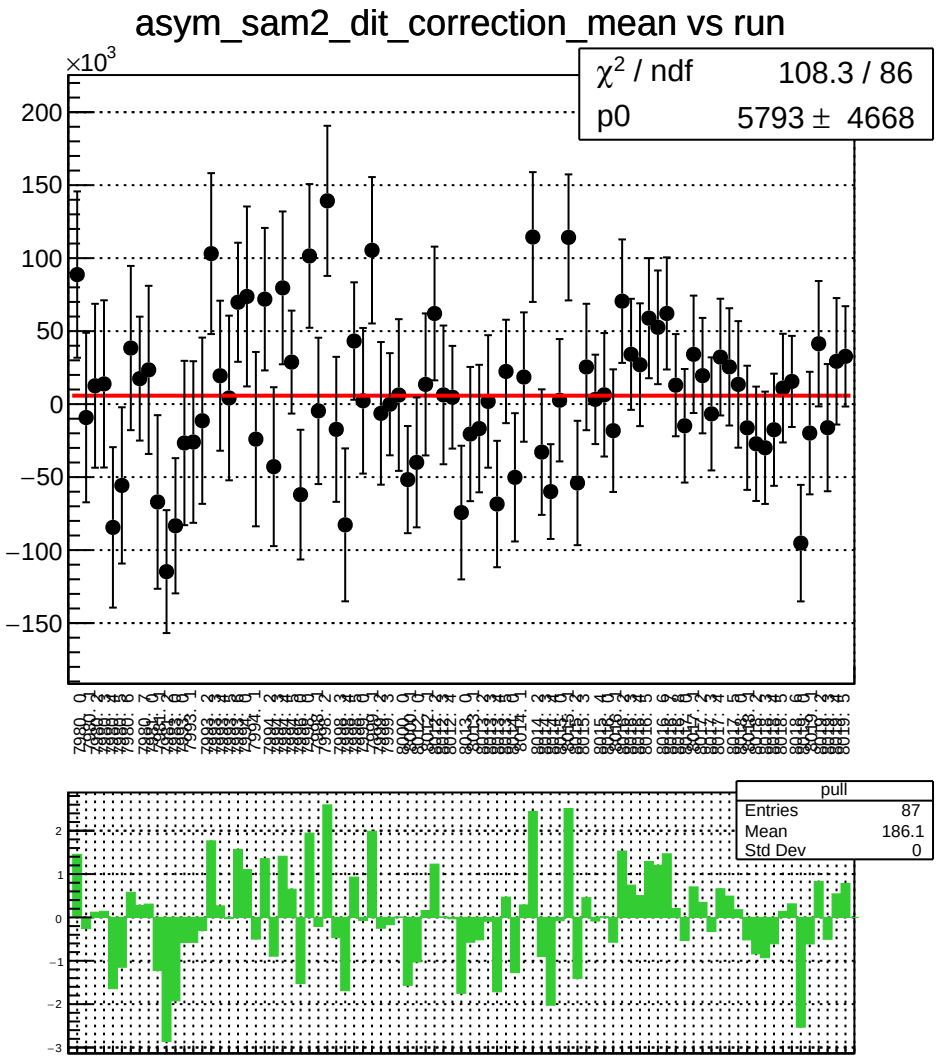

pull1D
Entries 87
Mean −0.0003184
Std Dev 1.118

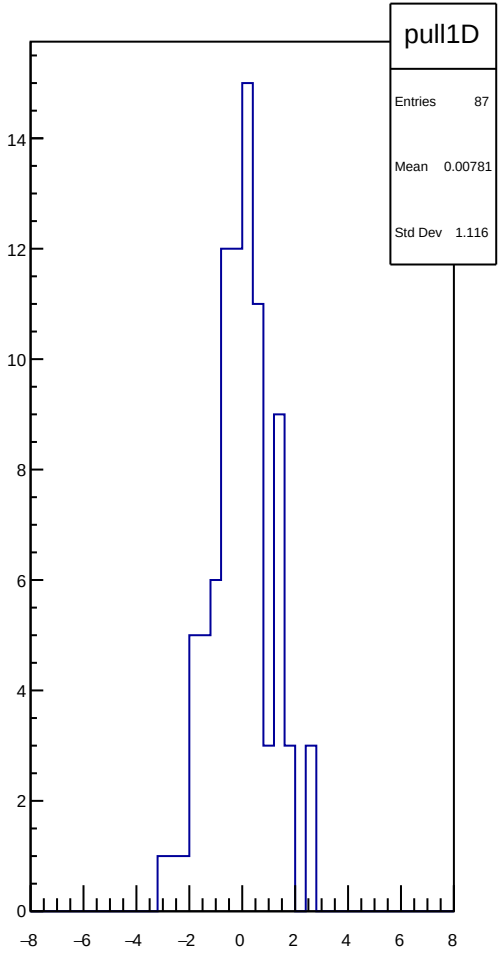

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 3.084e+04 / 86
p0 4247 ± 3.229
6000
5500
5000
4500
4000
3500

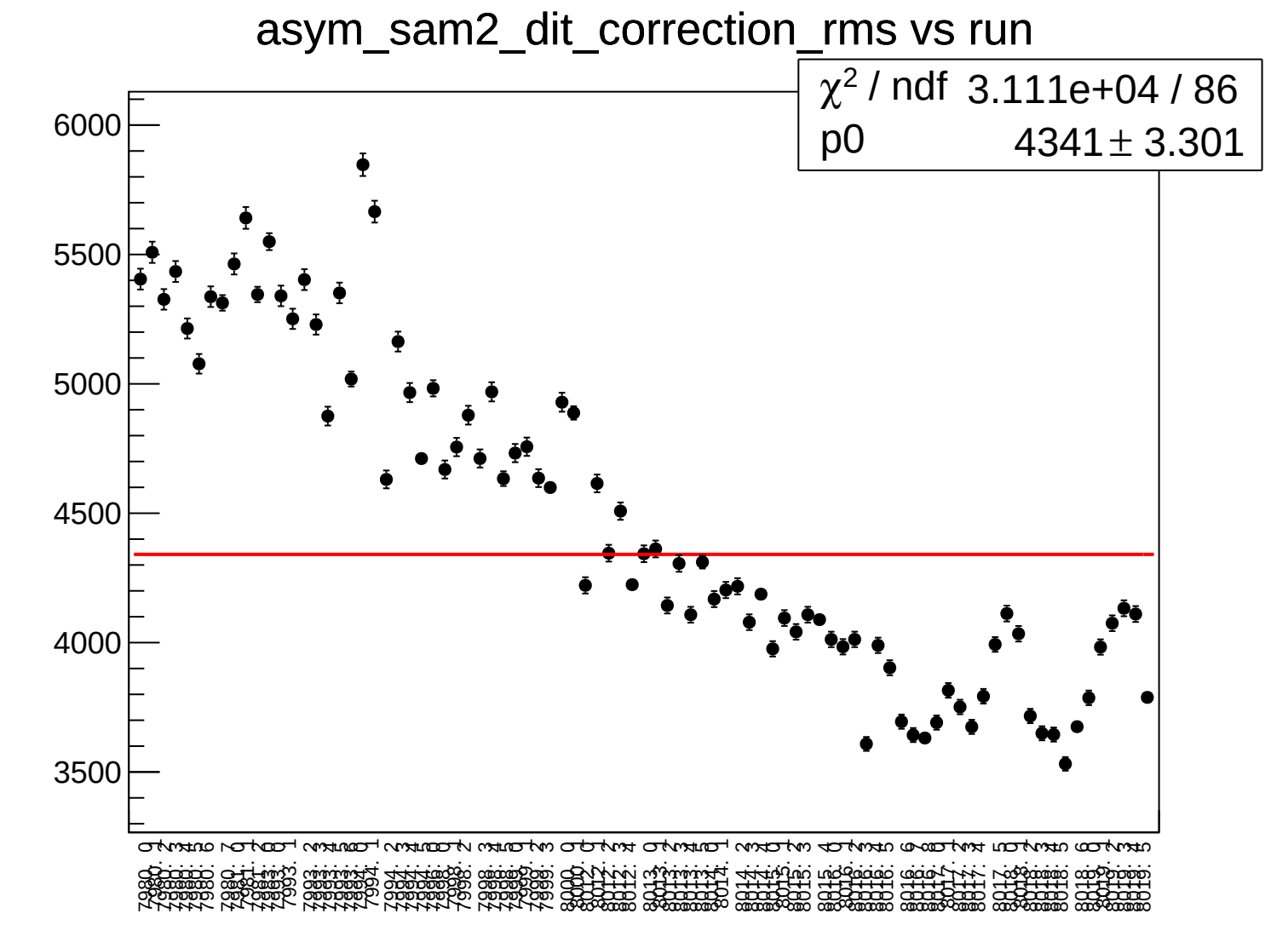

dit_asym_sam2_mean vs run
χ² / ndf 106.6 / 86
p0 255.2 ± 383.3
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −13.89
Std Dev 0
3
2
1
0
−1
−2
−3

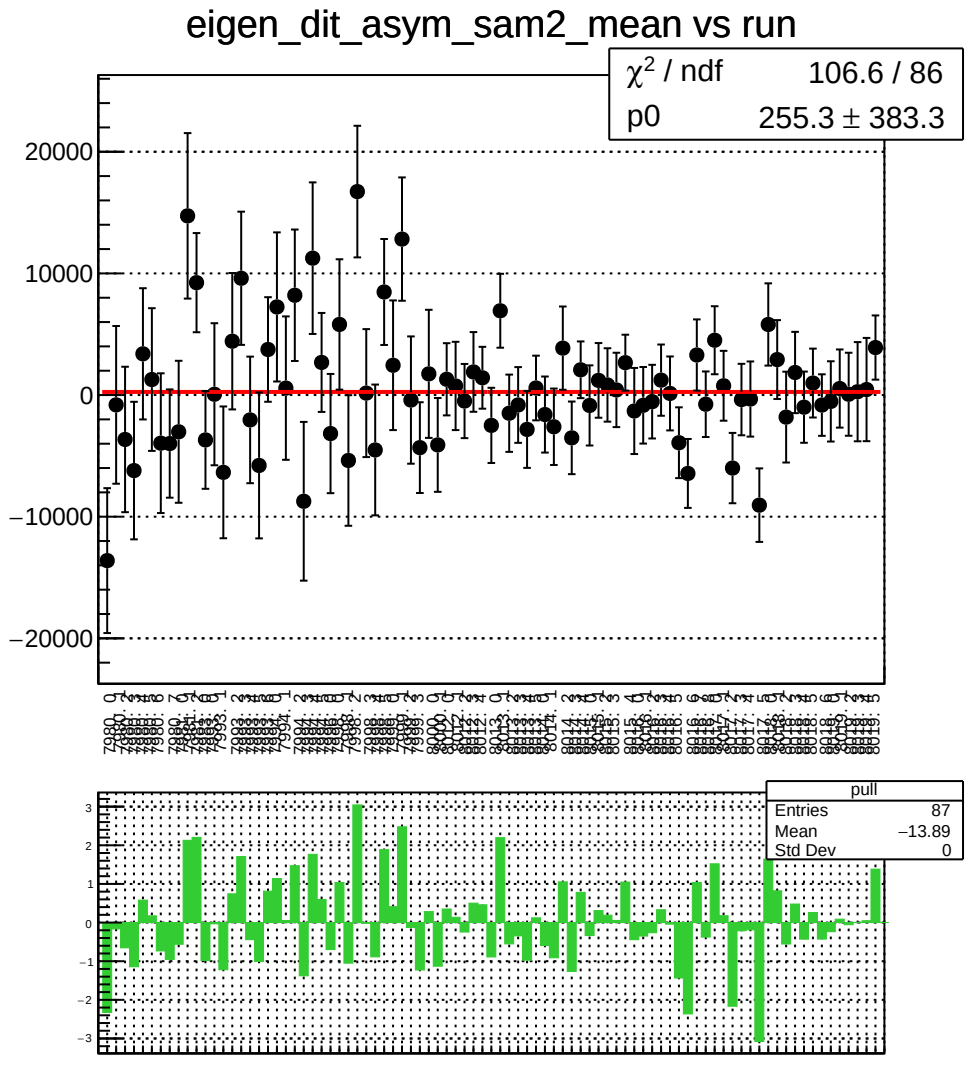

pull1D
Entries 87
Mean 0.02351
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

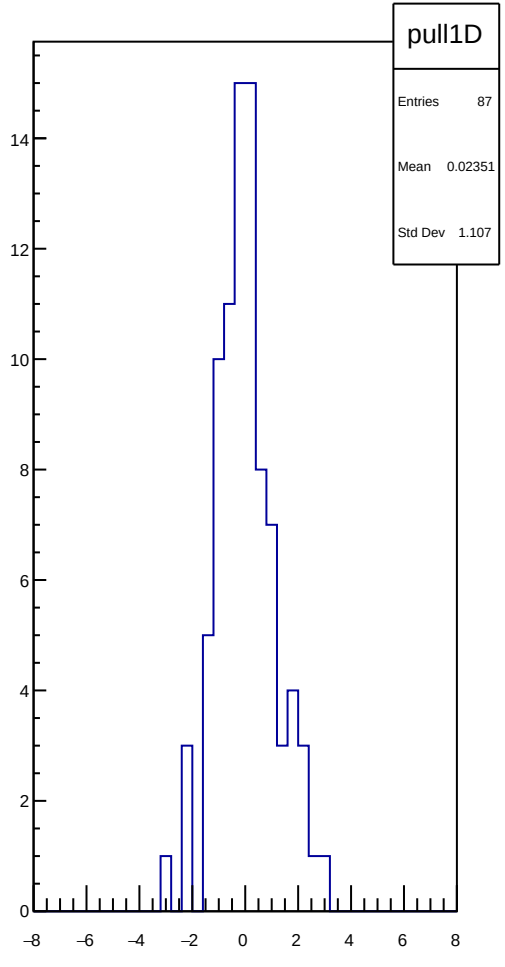

dit_asym_sam2_rms vs run
χ² / ndf 1.296e+05 / 86
p0 346.1 ± 0.271
650
600
550
500
450
400
350
300
250

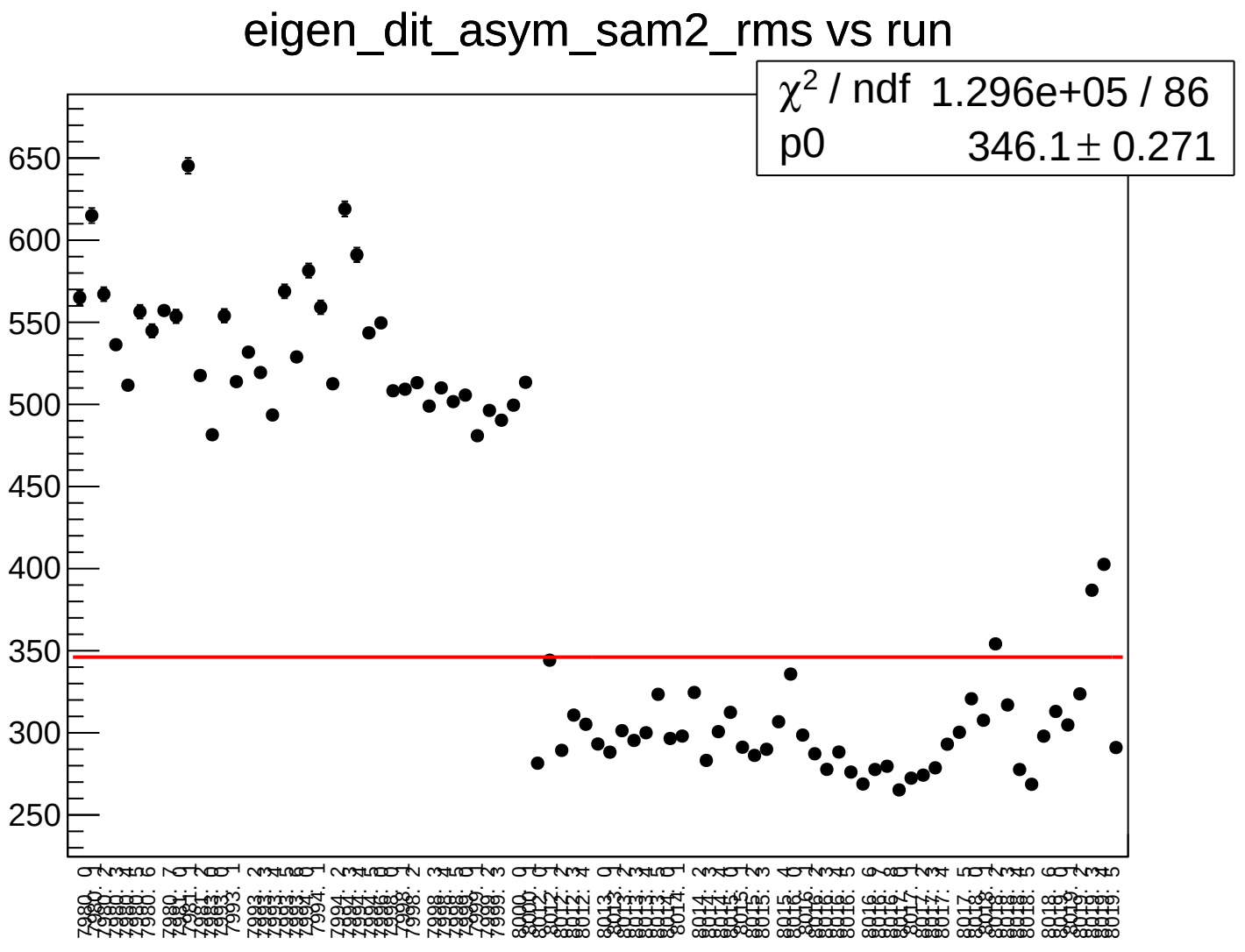

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 108.3 / 86
p0 5793 ± 4668
pull
Entries 87
Mean 186.1
Std Dev 0

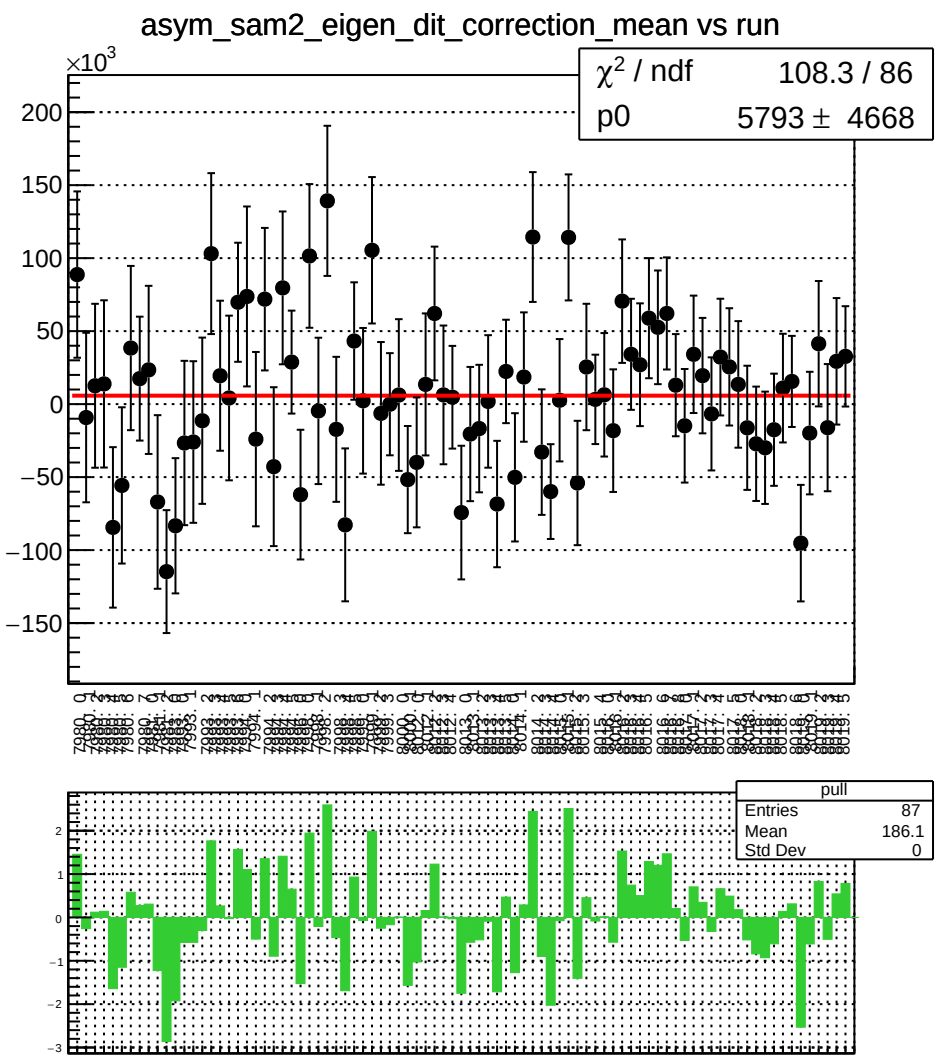

pull1D
Entries 87
Mean 0.00781
Std Dev 1.116

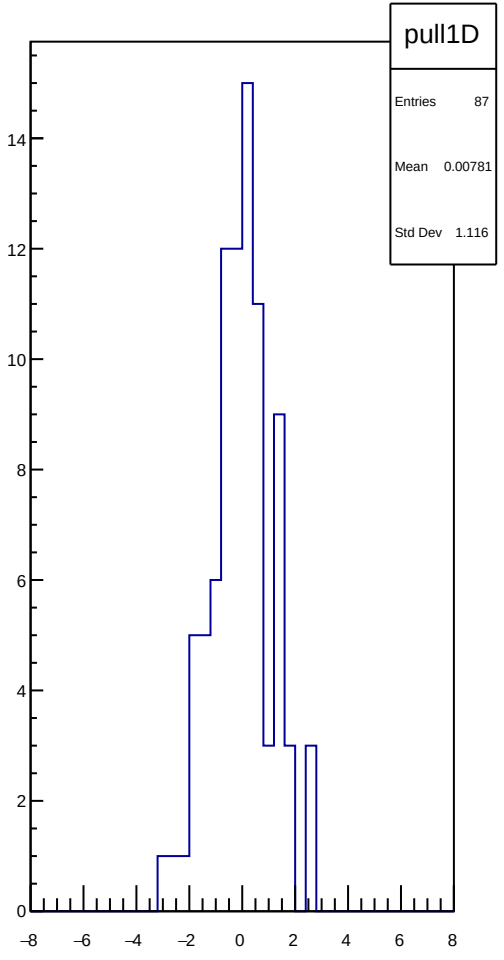

asym_sam2_dit_correction_rms vs run
χ² / ndf 3.111e+04 / 86
p0 4341 ± 3.301
6000
5500
5000
4500
4000
3500

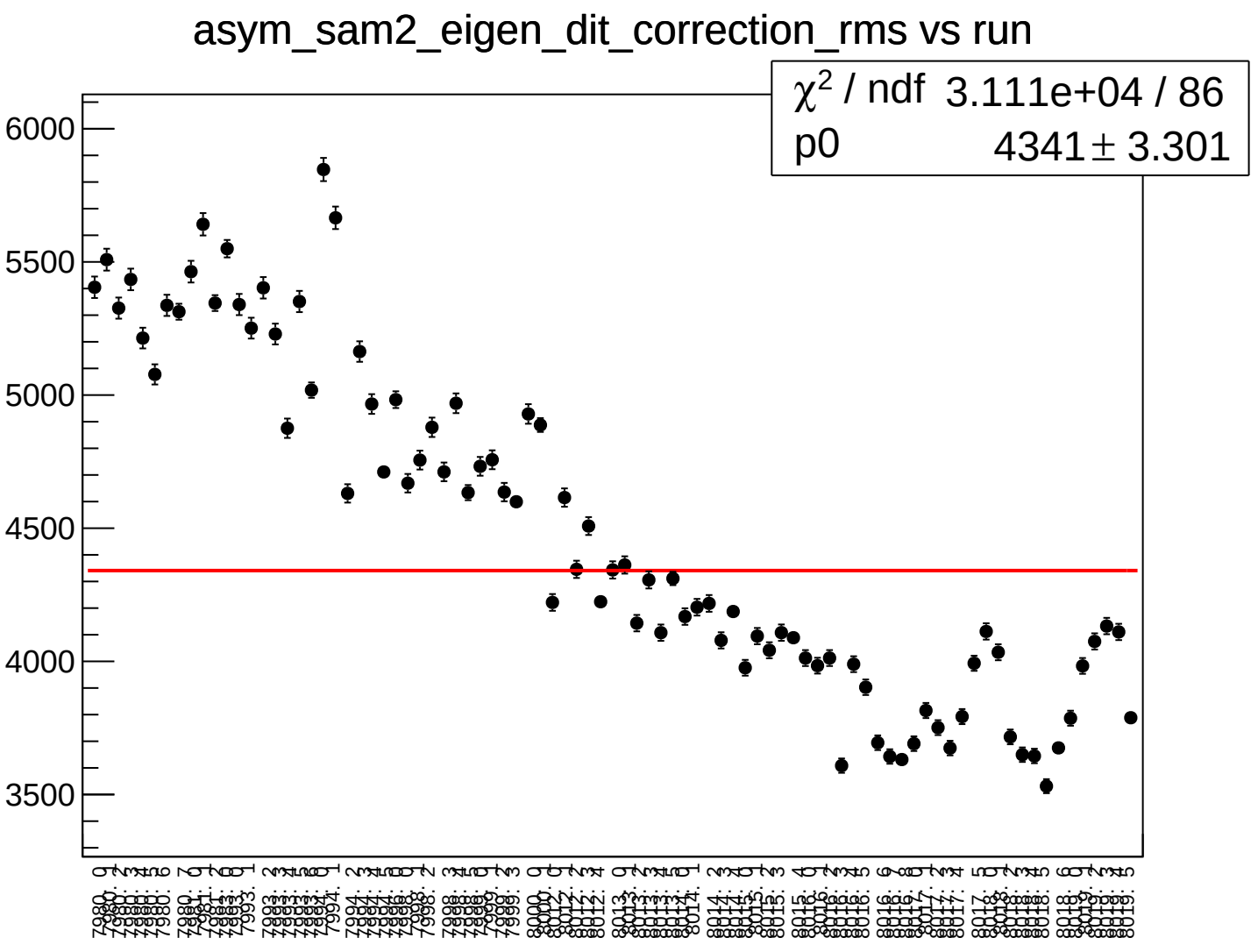

eigen_dit_asym_sam2_mean vs run
χ² / ndf 106.6 / 86
p0 255.3 ± 383.3
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −13.89
Std Dev 0
3
2
1
0
−1
−2
−3

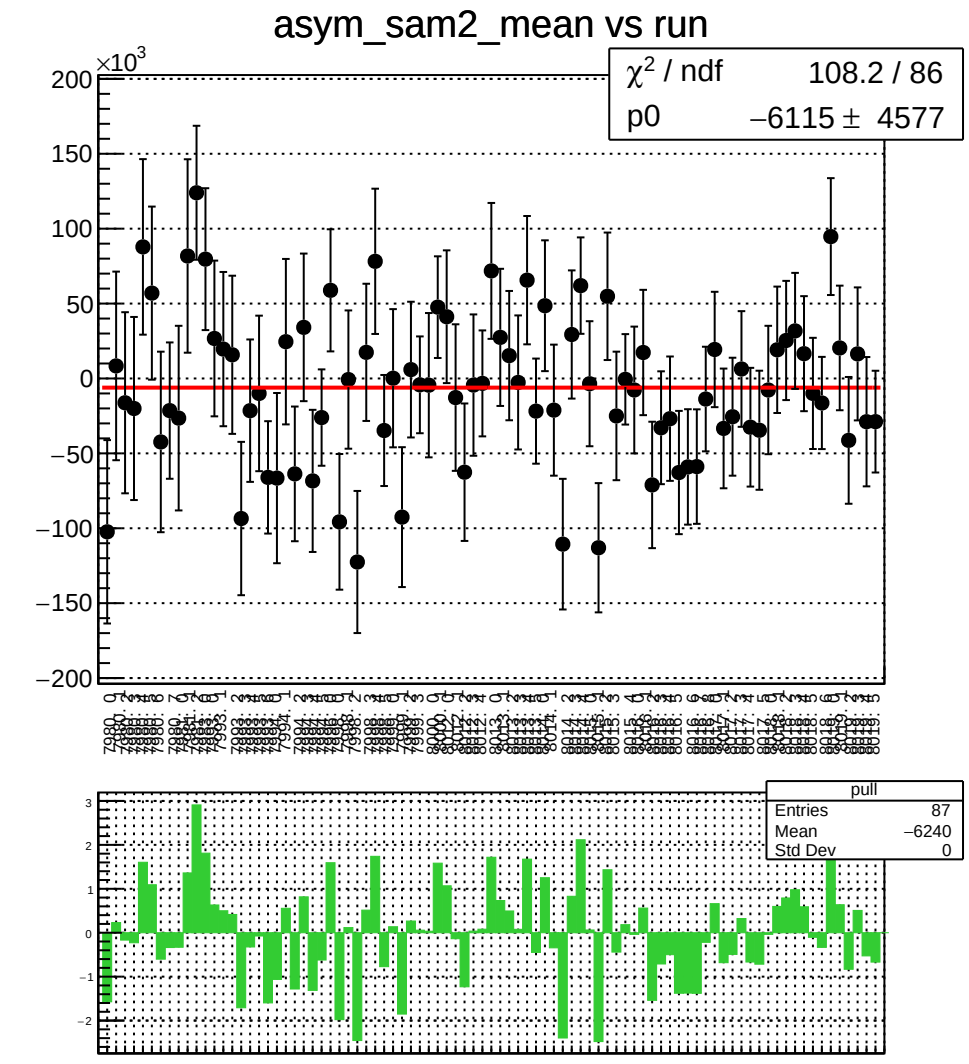

pull1D
Entries 87
Mean 0.02351
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

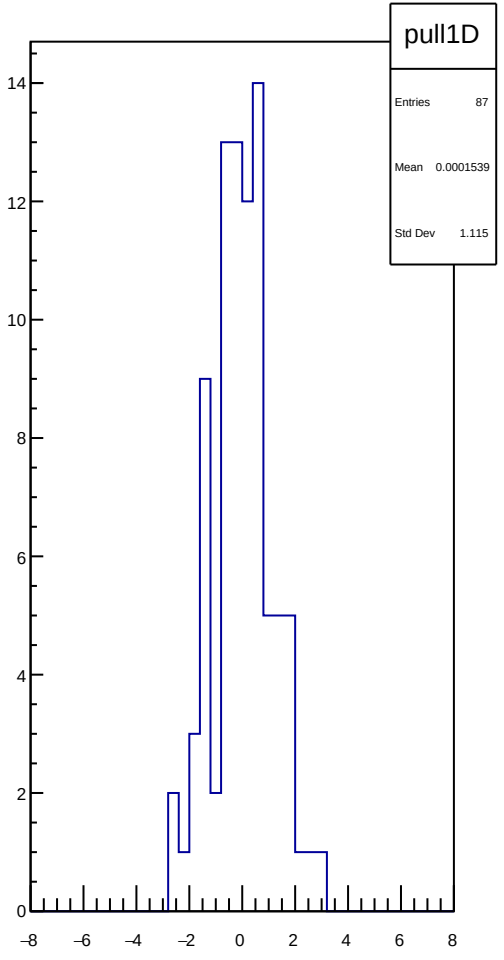

eigen_dit_asym_sam2_rms vs run
χ² / ndf 1.296e+05 / 86
p0 346.1 ± 0.271
650
600
550
500
450
400
350
300
250

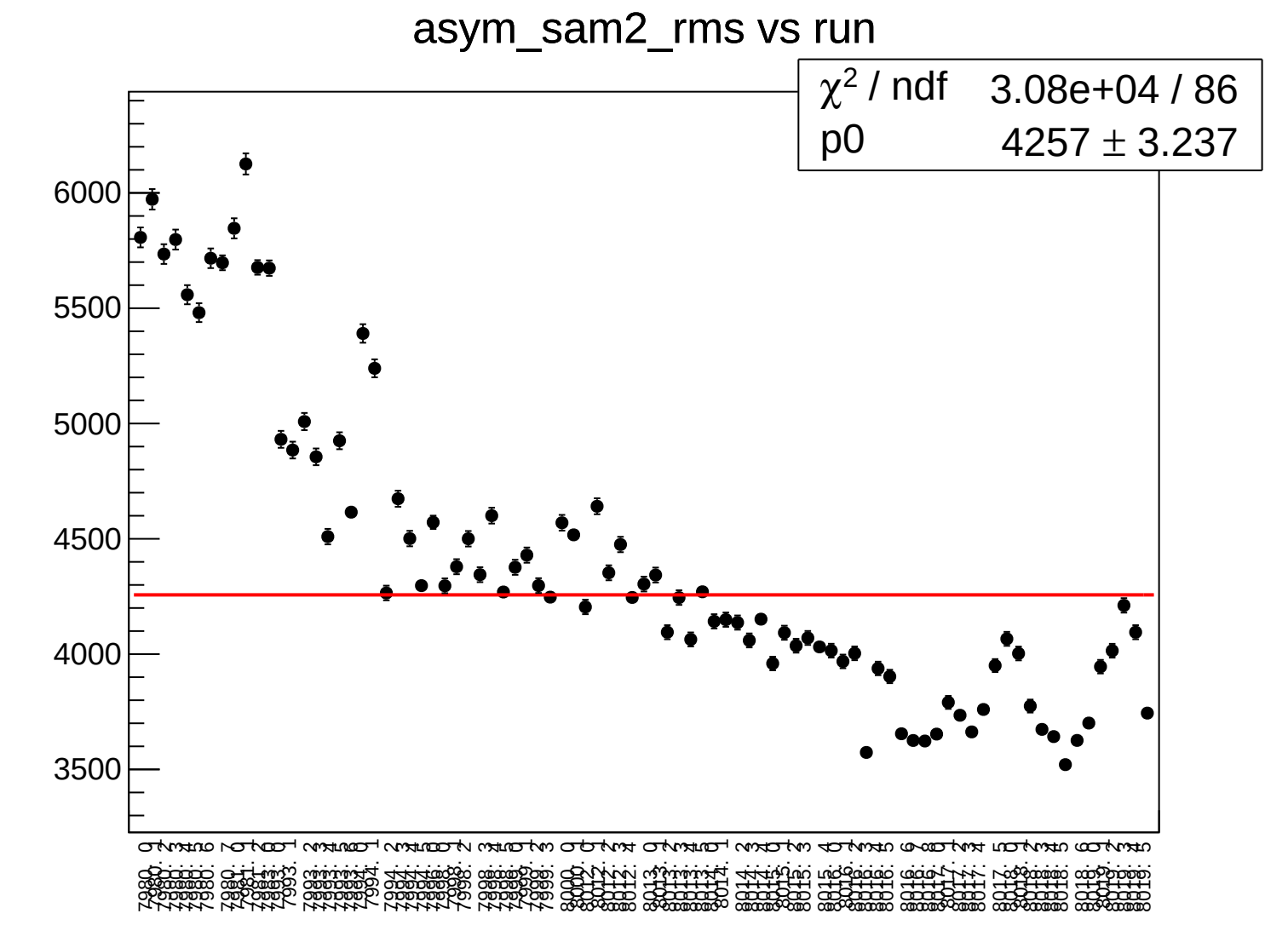

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 108.3 / 86
p0 5793 ± 4668
pull
Entries 87
Mean 186.1
Std Dev 0

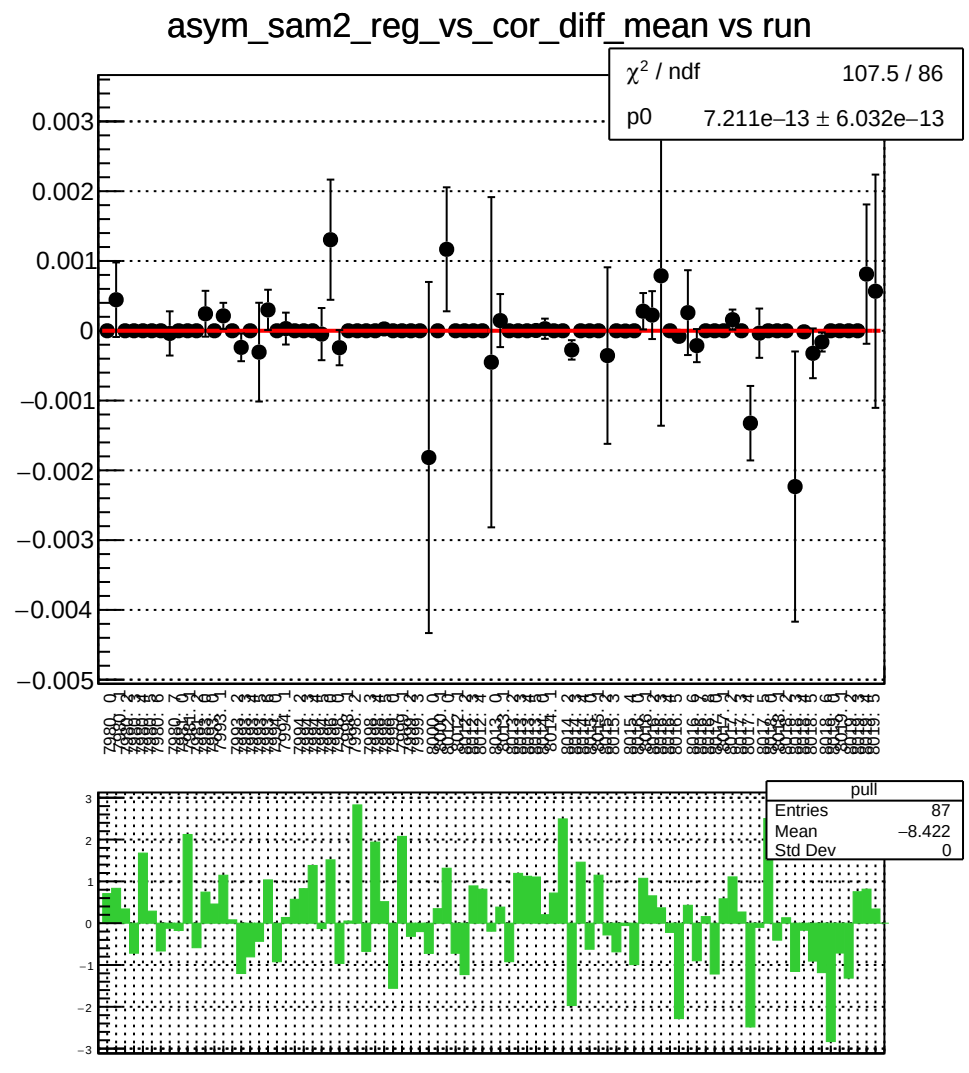

pull1D
Entries 87
Mean 0.00781
Std Dev 1.116

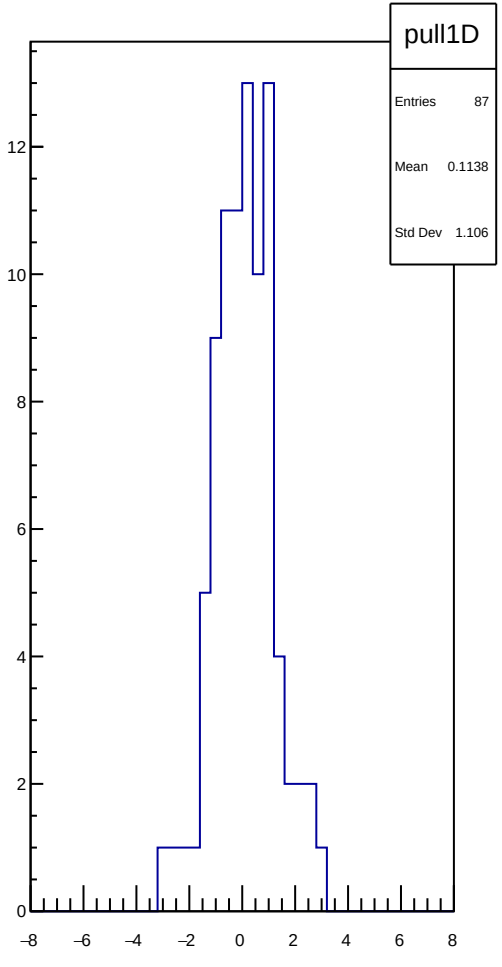

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 3.111e+04 / 86
p0 4341 ± 3.301
6000
5500
5000
4500
4000
3500

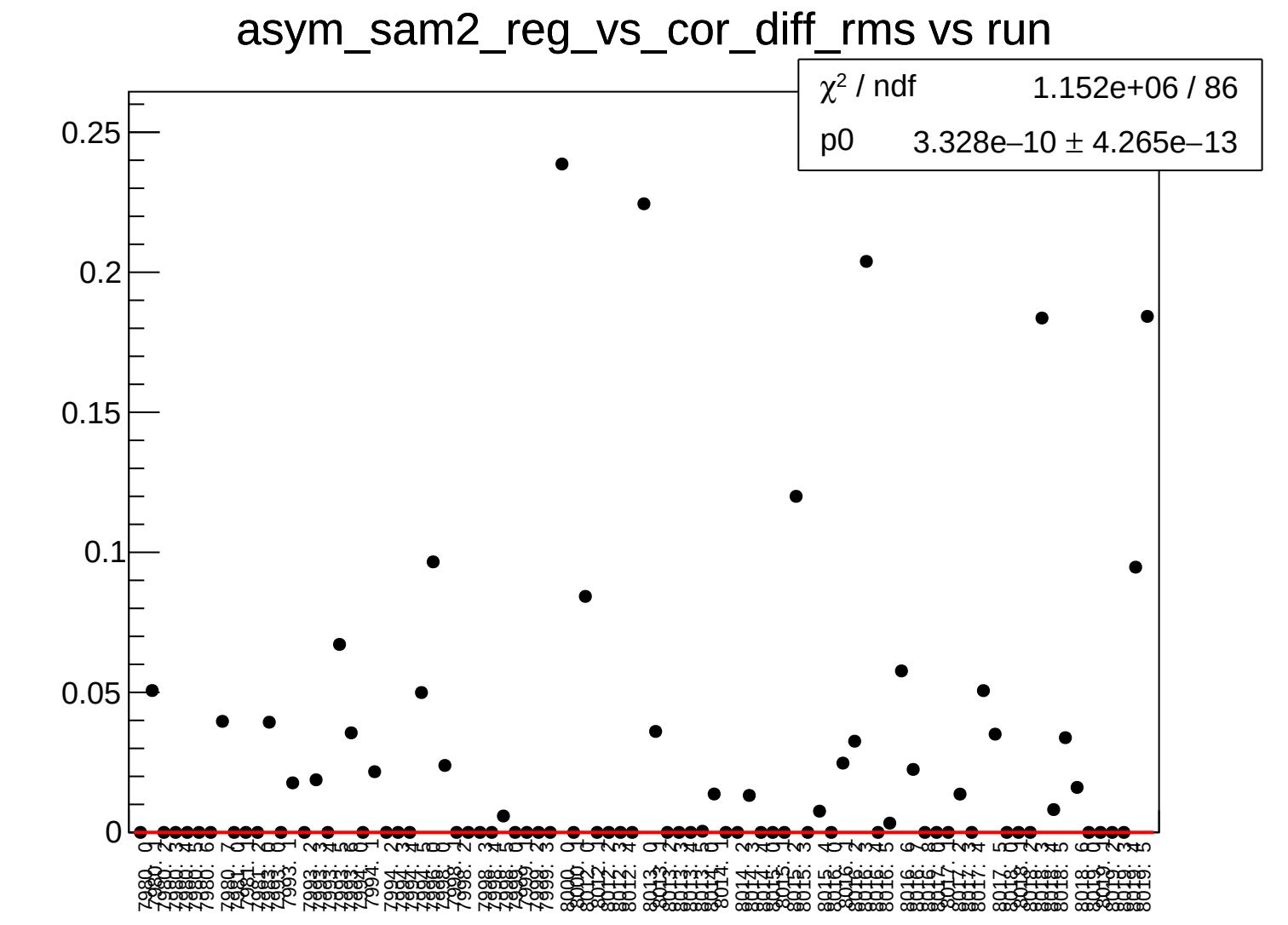

asym_sam2_mean vs run
×10^3
χ^2 / ndf 108.2 / 86
p0 −6115 ± 4577
pull
Entries 87
Mean −6240
Std Dev 0

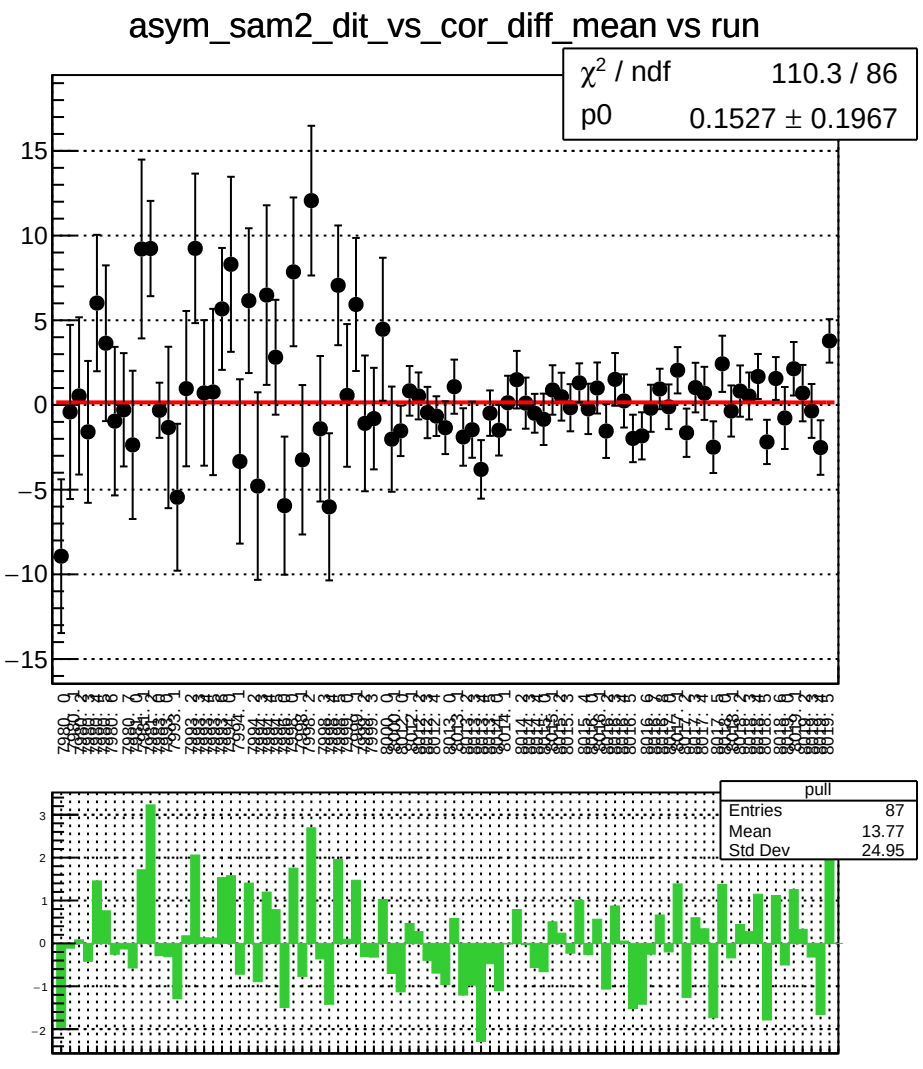

pull1D
Entries 87
Mean 0.0001539
Std Dev 1.115

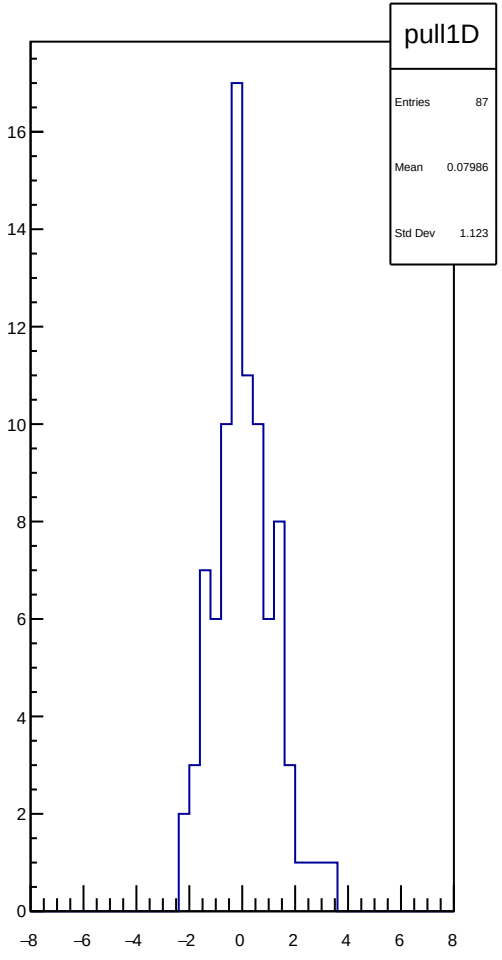

asym_sam2_rms vs run
χ² / ndf 3.08e+04 / 86
p0 4257 ± 3.237
6000
5500
5000
4500
4000
3500

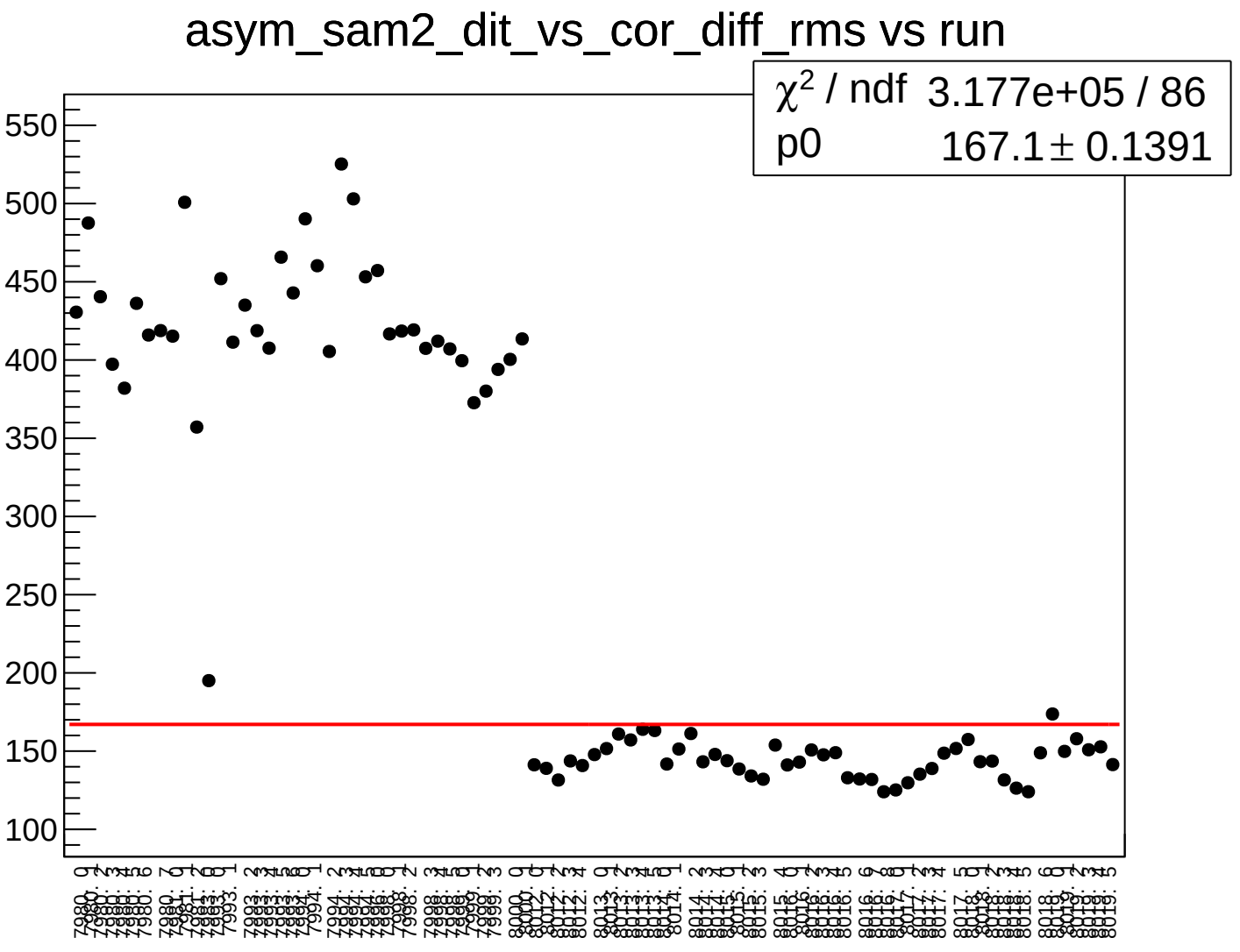

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 86
p0 7.211e−13 ± 6.032e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
pull
Entries 87
Mean −8.422
Std Dev 0
3
2
1
0
−1
−2
−3

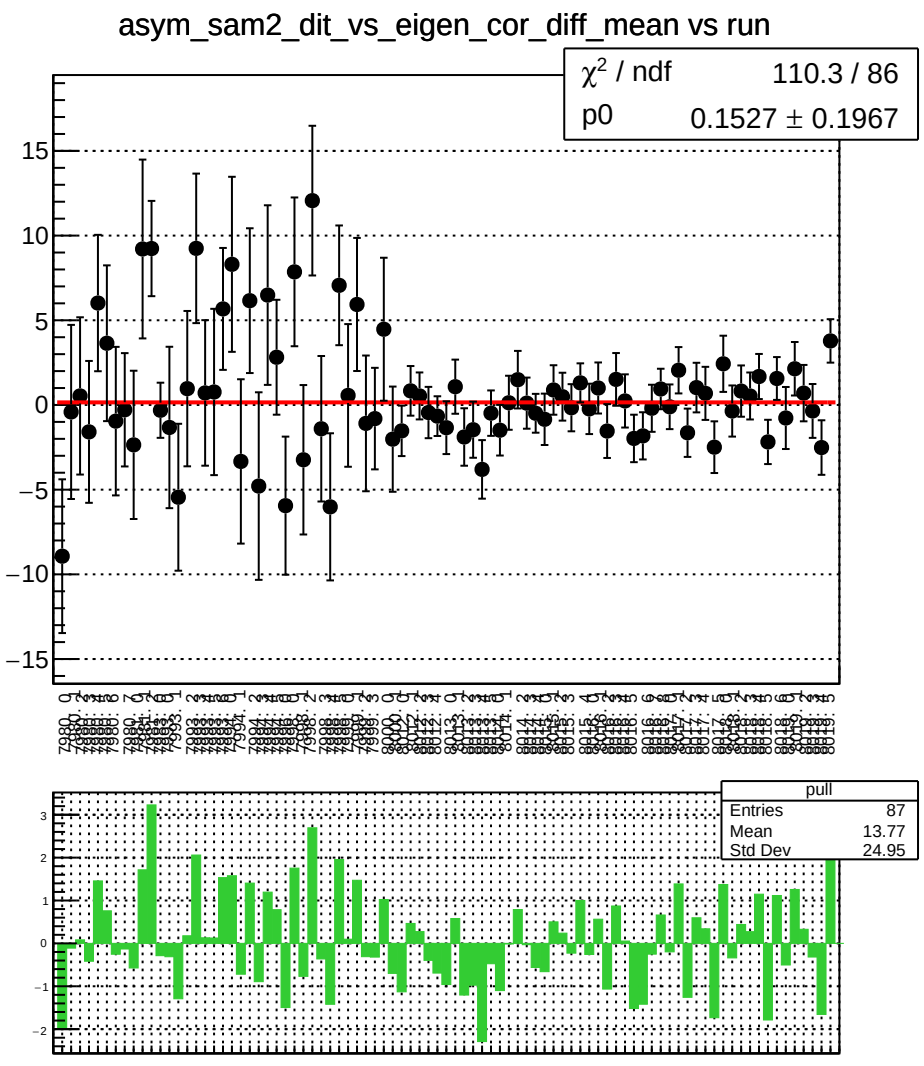

pull1D
Entries 87
Mean 0.1138
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

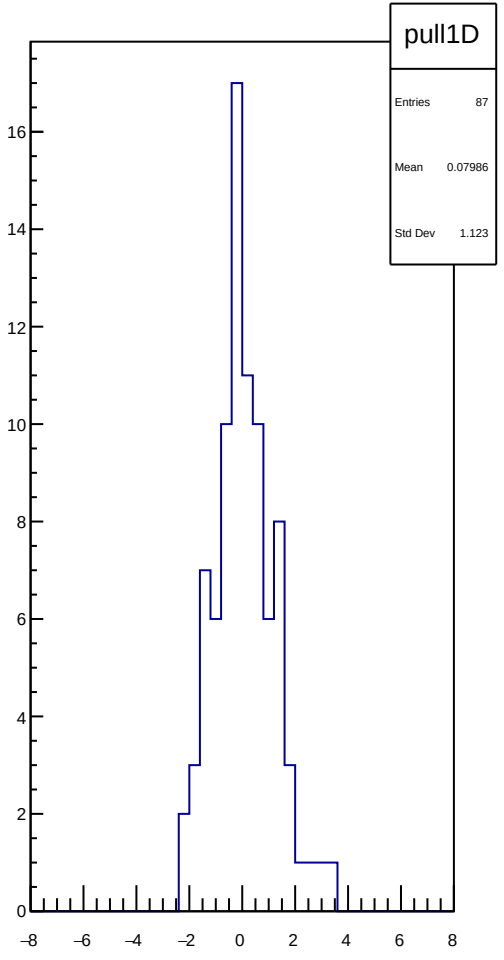

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.152e+06 / 86
p0 3.328e−10 ± 4.265e−13
0.25
0.2
0.15
0.1
0.05
0

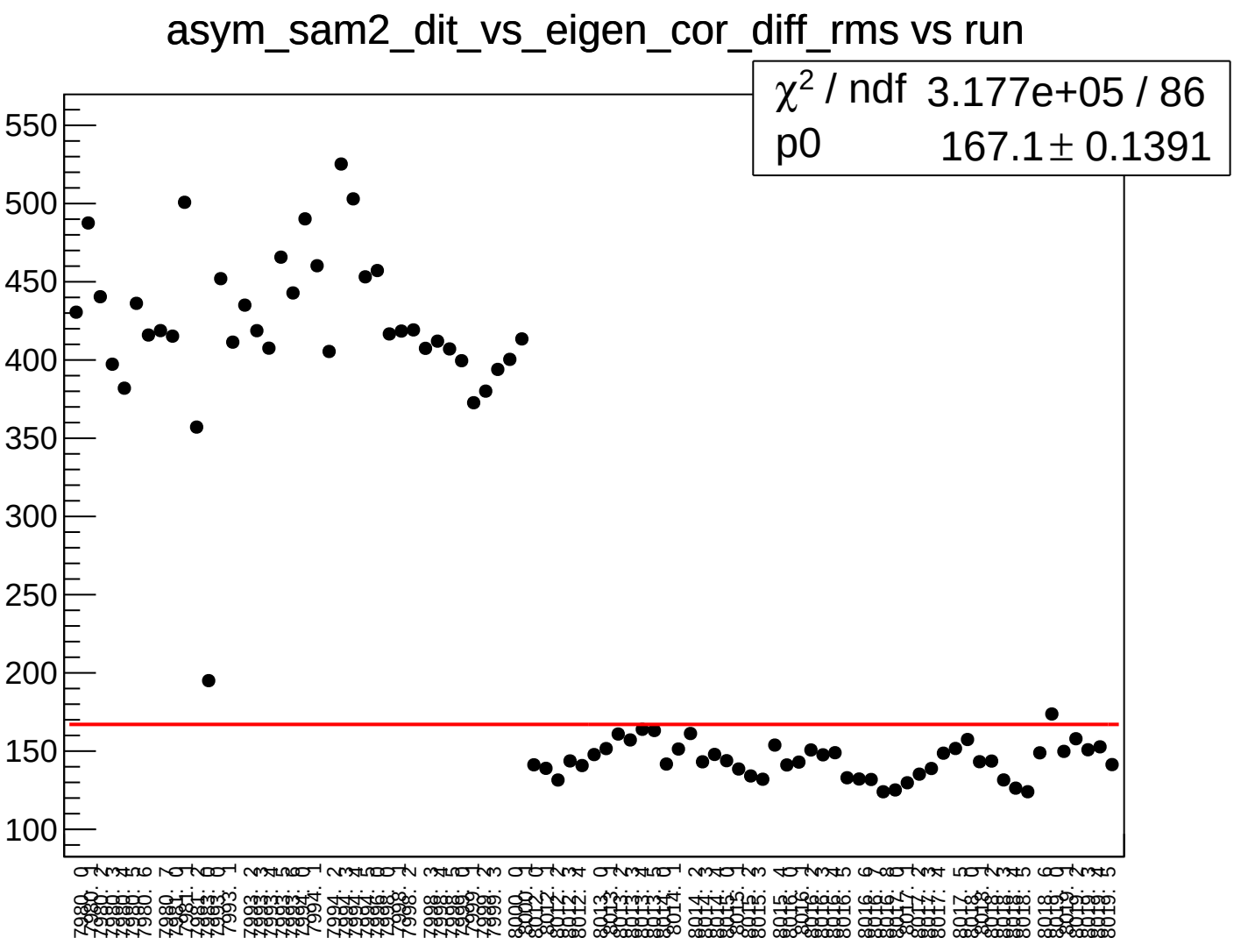

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 110.3 / 86
p0 0.1527 ± 0.1967
pull
Entries 87
Mean 13.77
Std Dev 24.95

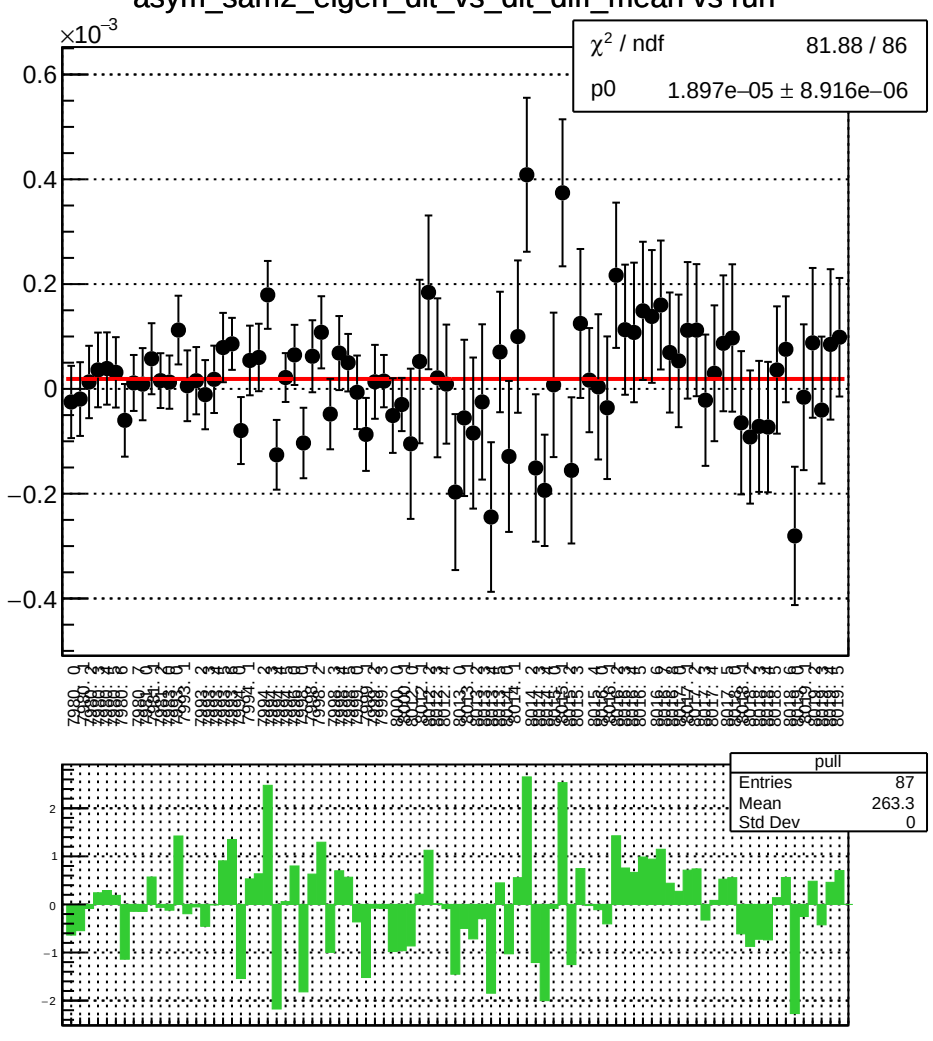

pull1D
Entries 87
Mean 0.07986
Std Dev 1.123

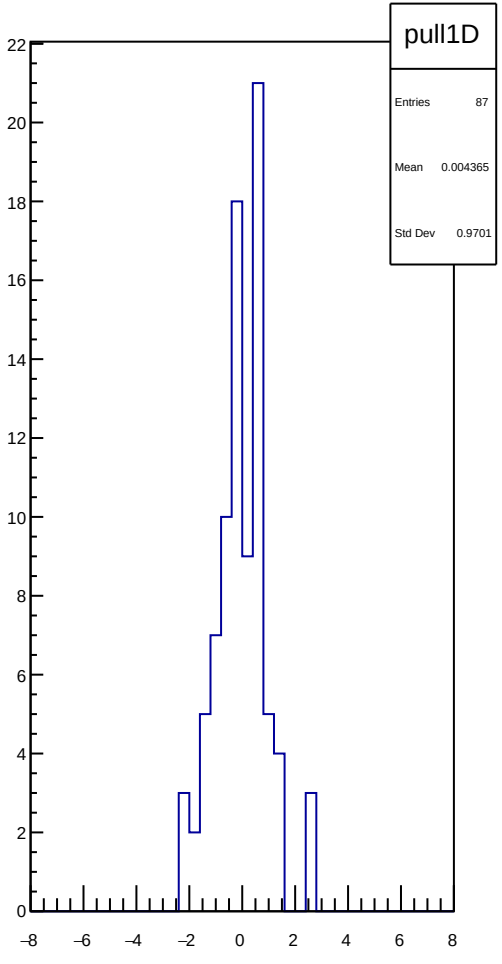

asym_sam2_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.177e+05 / 86
p0 167.1 ± 0.1391
550
500
450
400
350
300
250
200
150
100

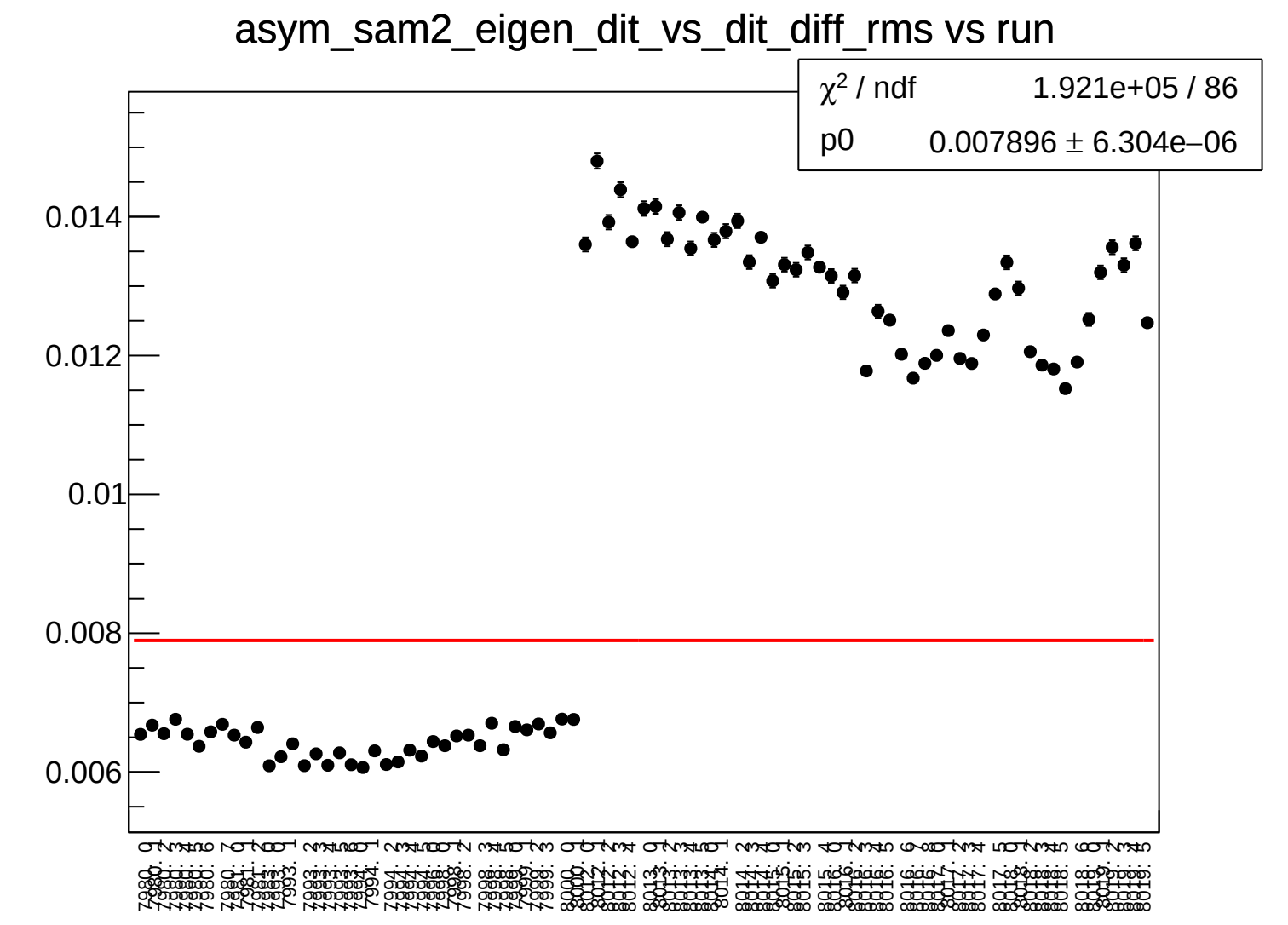

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.3 / 86
p0 0.1527 ± 0.1967
pull
Entries 87
Mean 13.77
Std Dev 24.95

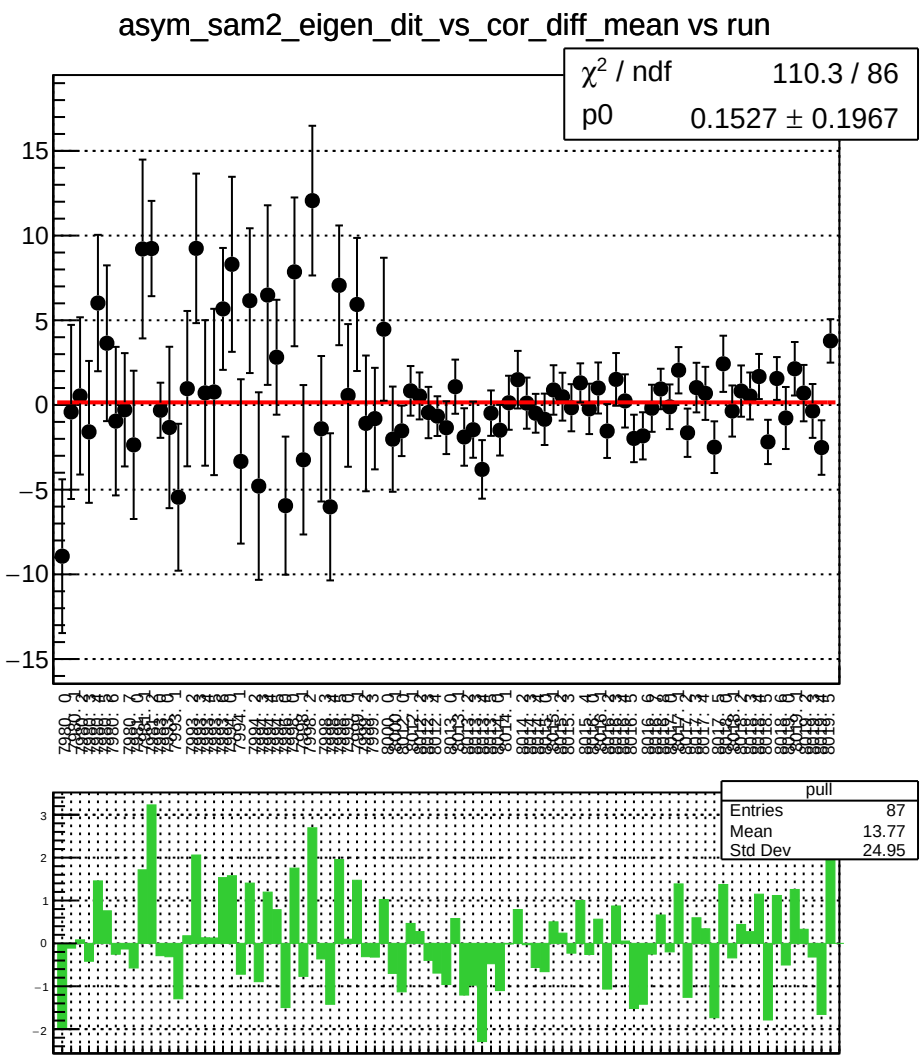

pull1D
Entries 87
Mean 0.07986
Std Dev 1.123

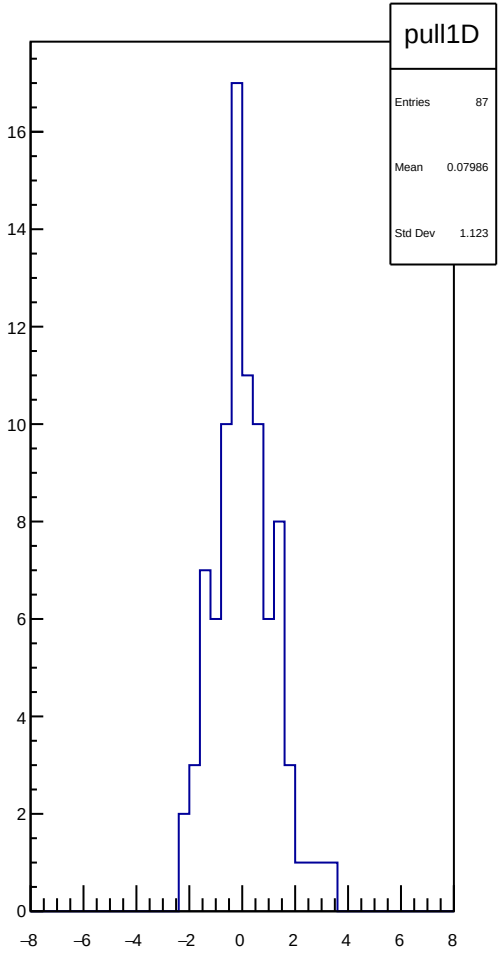

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.177e+05 / 86
p0 167.1 ± 0.1391
550
500
450
400
350
300
250
200
150
100

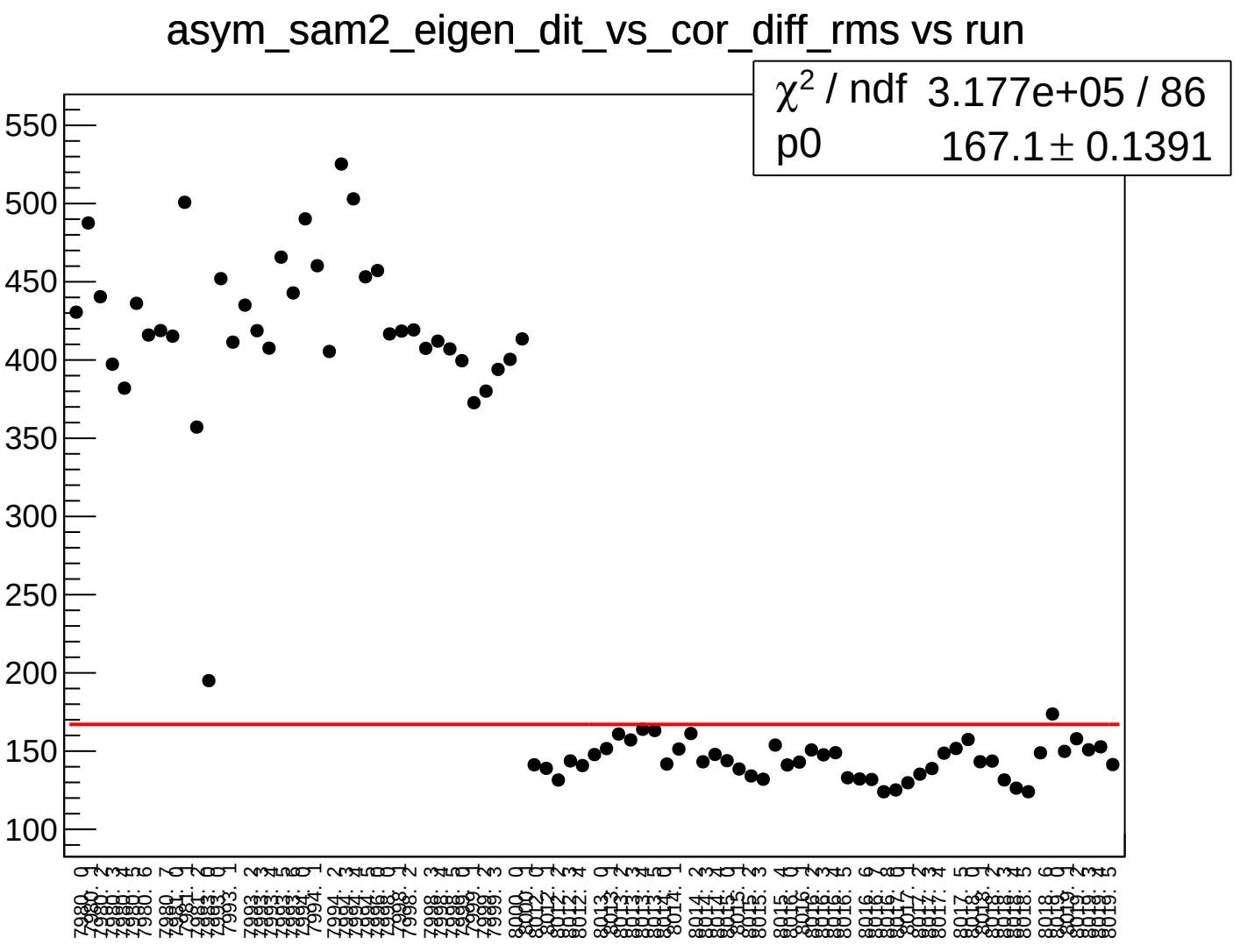

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 81.88 / 86
p0 1.897e−05 ± 8.916e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 87
Mean 263.3
Std Dev 0
2
1
0
−1
−2

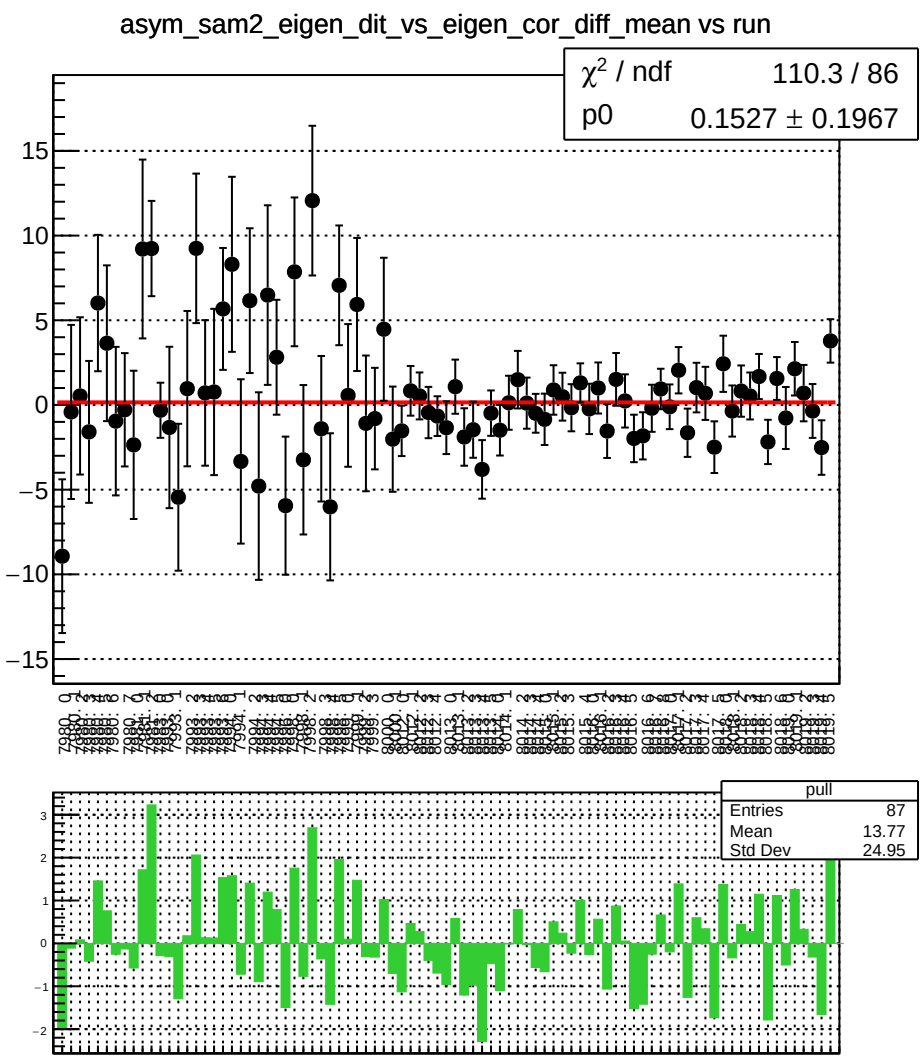

pull1D
Entries 87
Mean 0.004365
Std Dev 0.9701
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

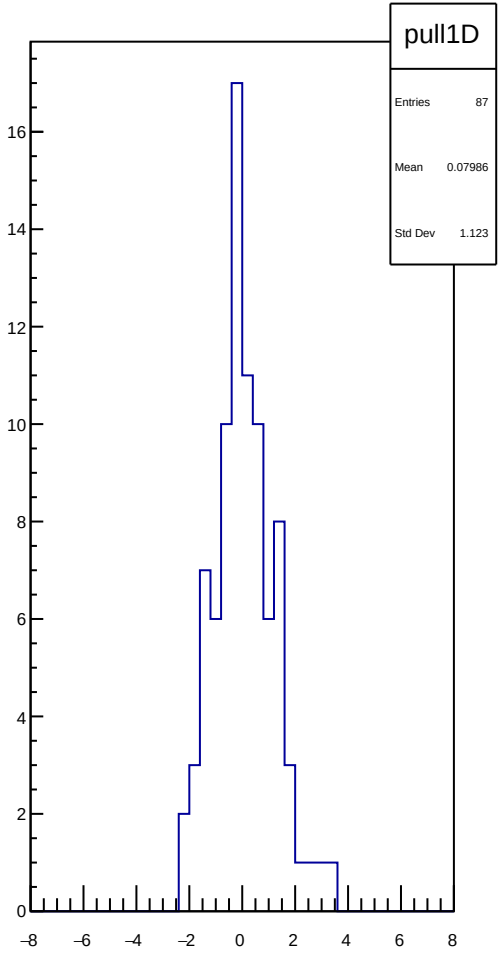

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.921e+05 / 86
p0 0.007896 ± 6.304e−06
0.014
0.012
0.01
0.008
0.006

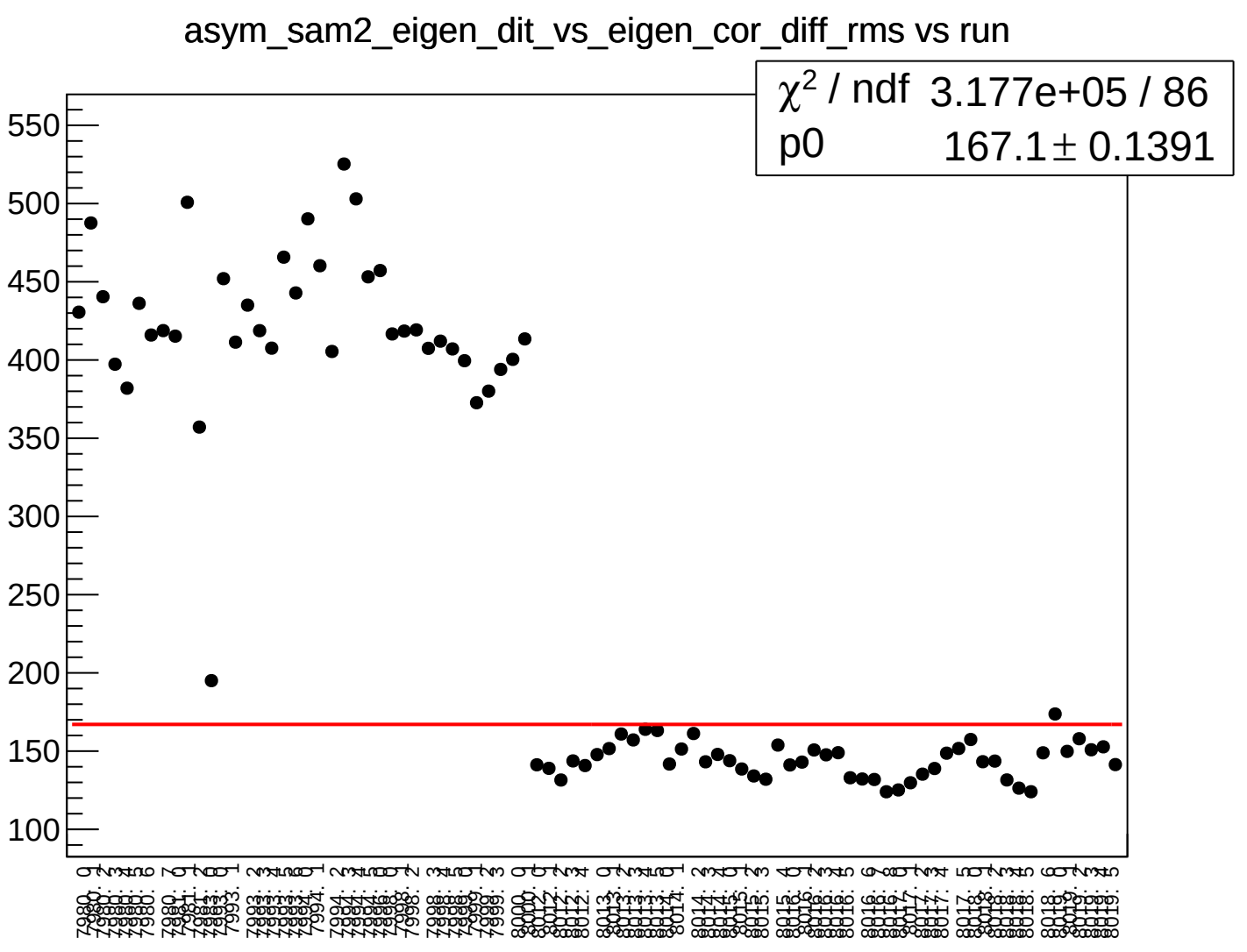

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.3 / 86
p0 0.1527 ± 0.1967
pull
Entries 87
Mean 13.77
Std Dev 24.95

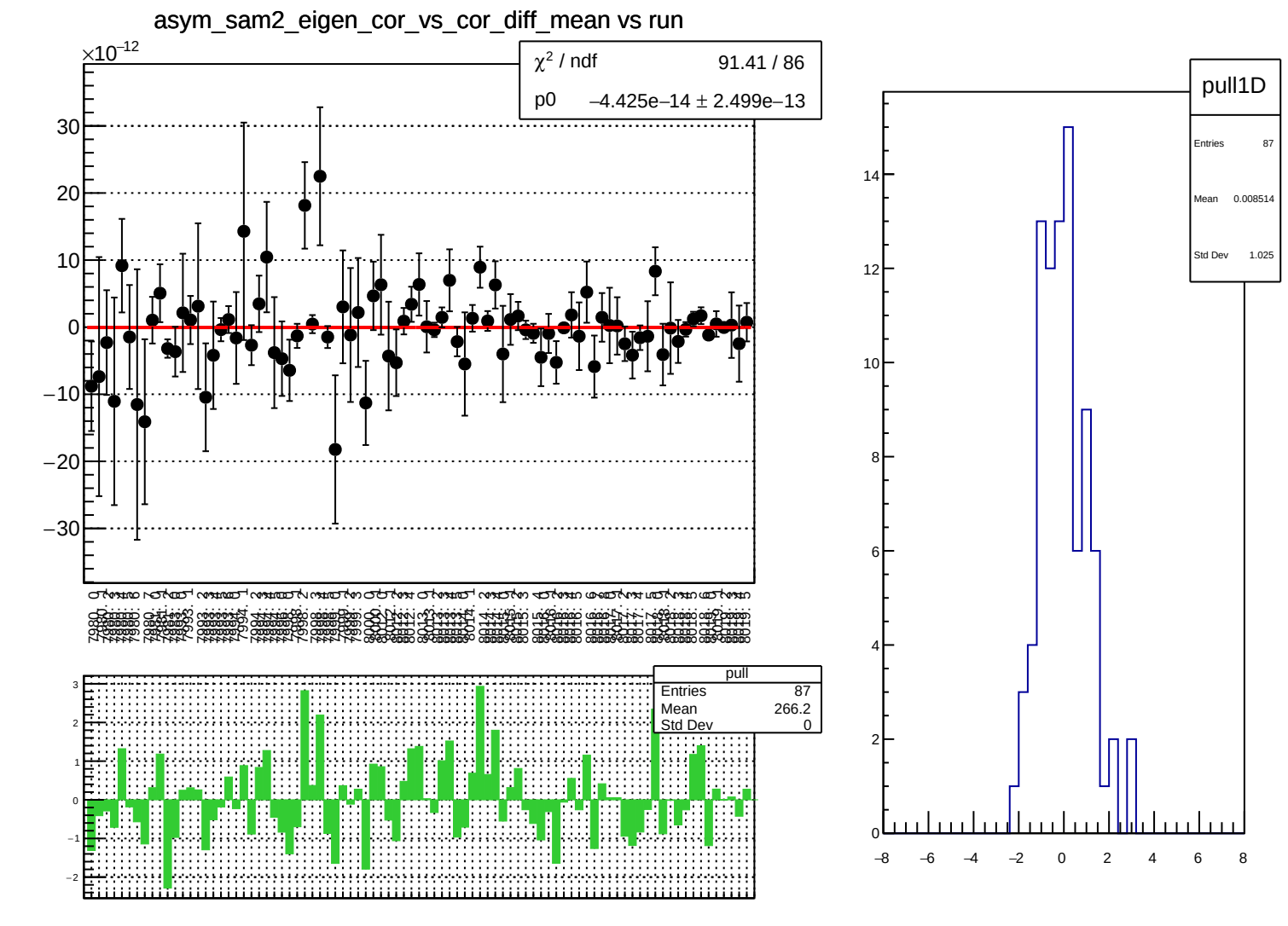

pull1D
Entries 87
Mean 0.07986
Std Dev 1.123

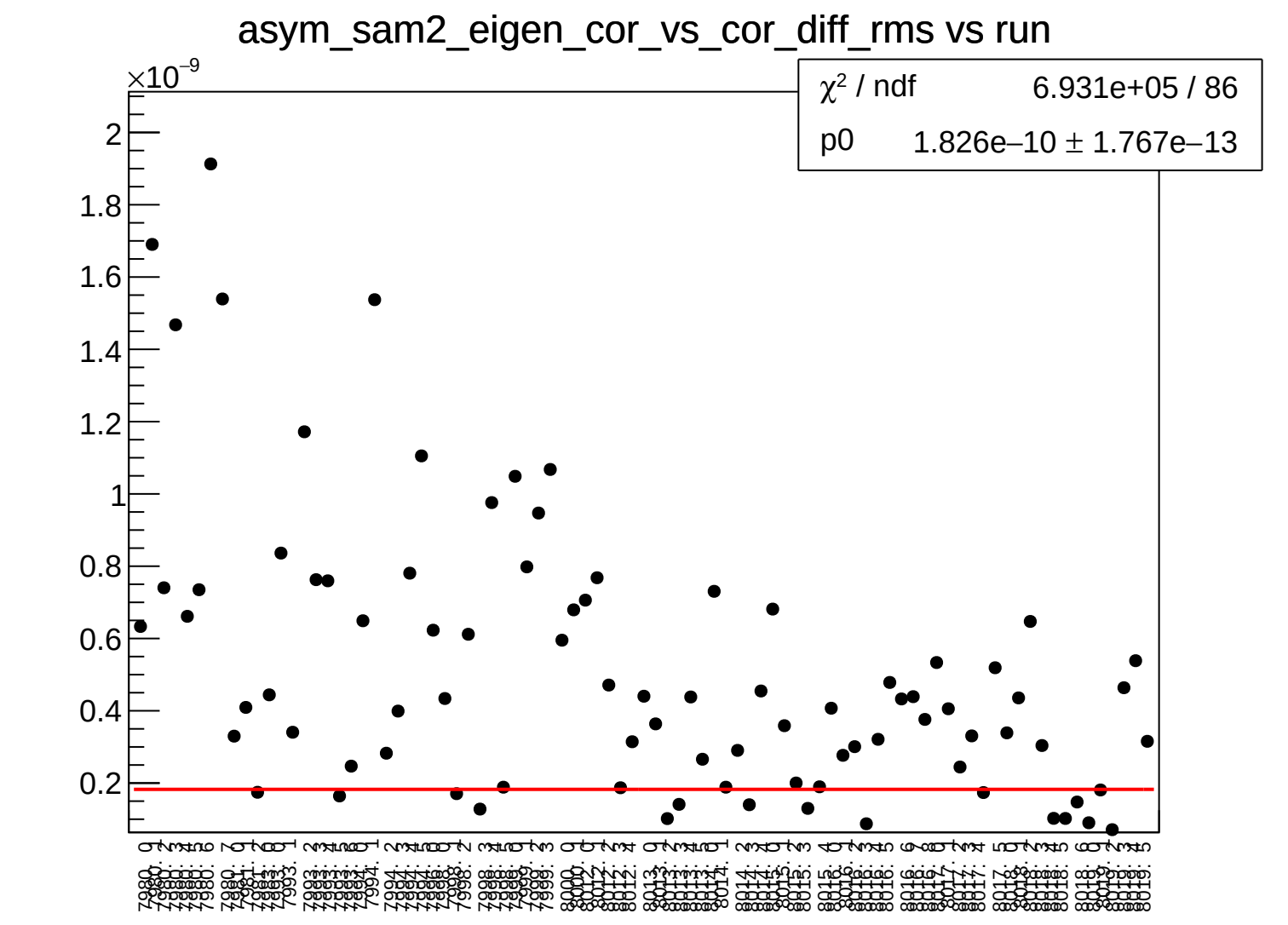

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.177e+05 / 86
p0 167.1 ± 0.1391
550
500
450
400
350
300
250
200
150
100

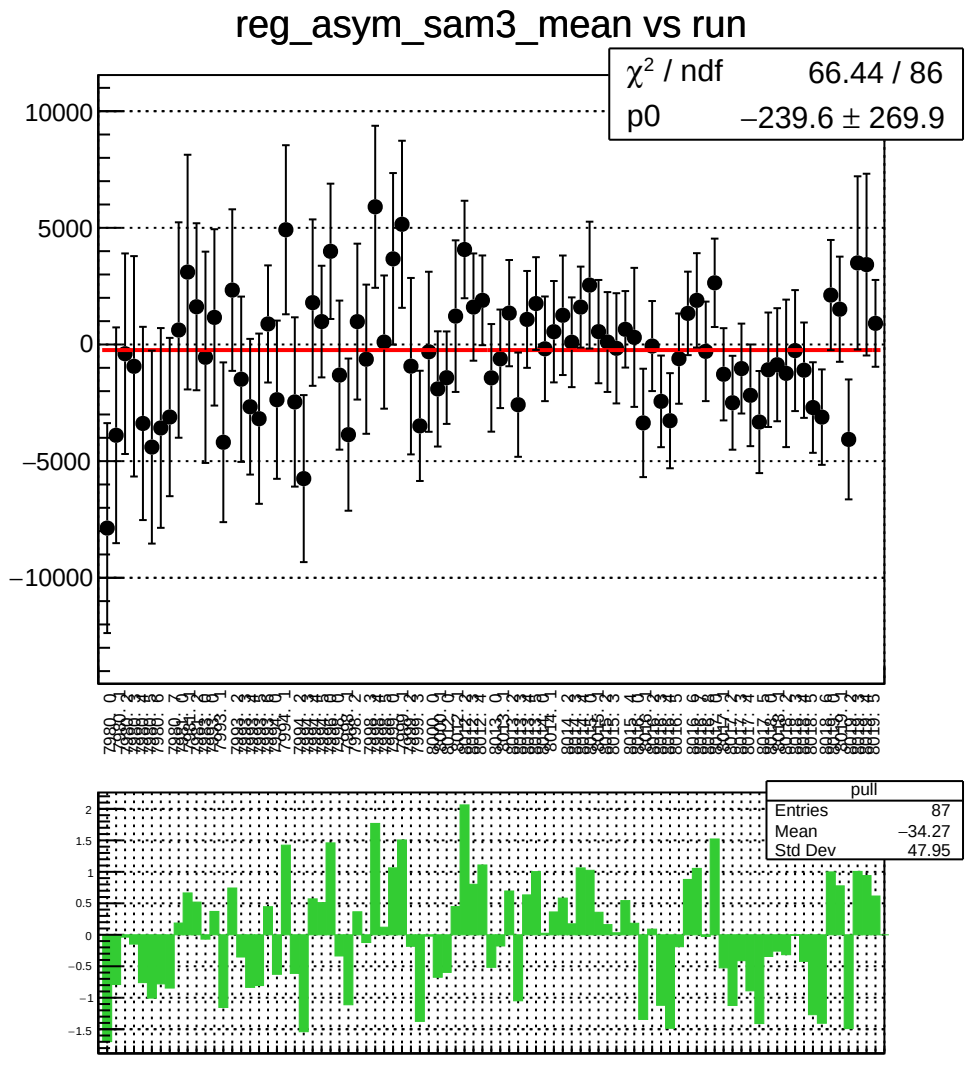

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.3 / 86
p0 0.1527 ± 0.1967
pull
Entries 87
Mean 13.77
Std Dev 24.95

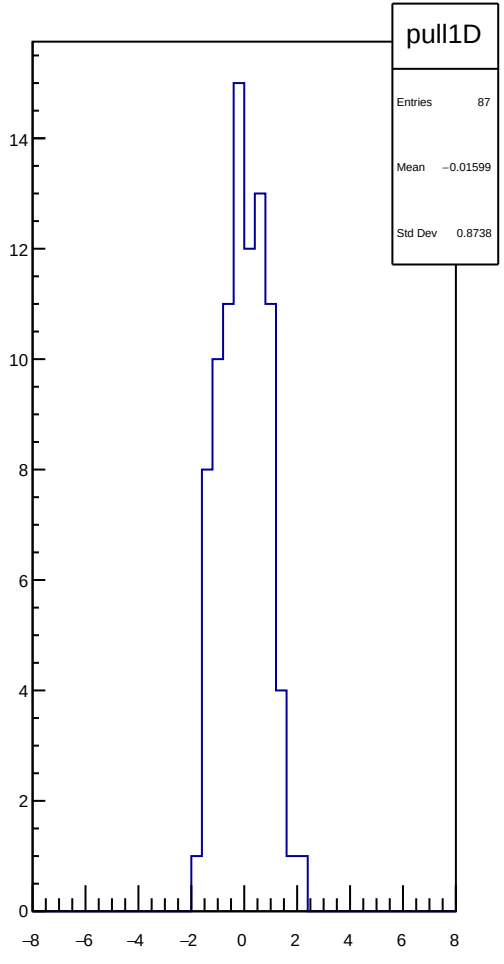

pull1D
Entries 87
Mean 0.07986
Std Dev 1.123

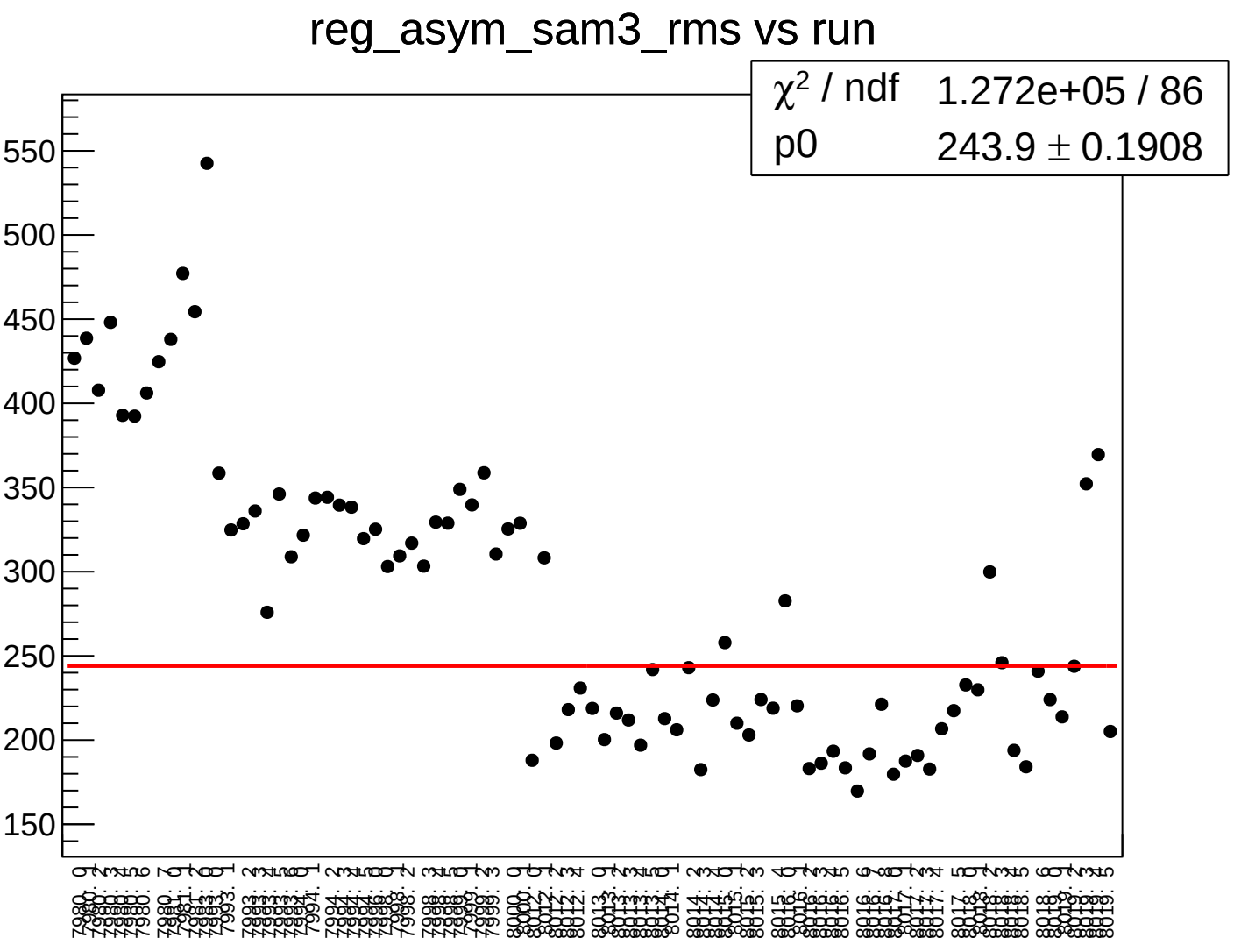

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.177e+05 / 86
p0 167.1 ± 0.1391
550
500
450
400
350
300
250
200
150
100

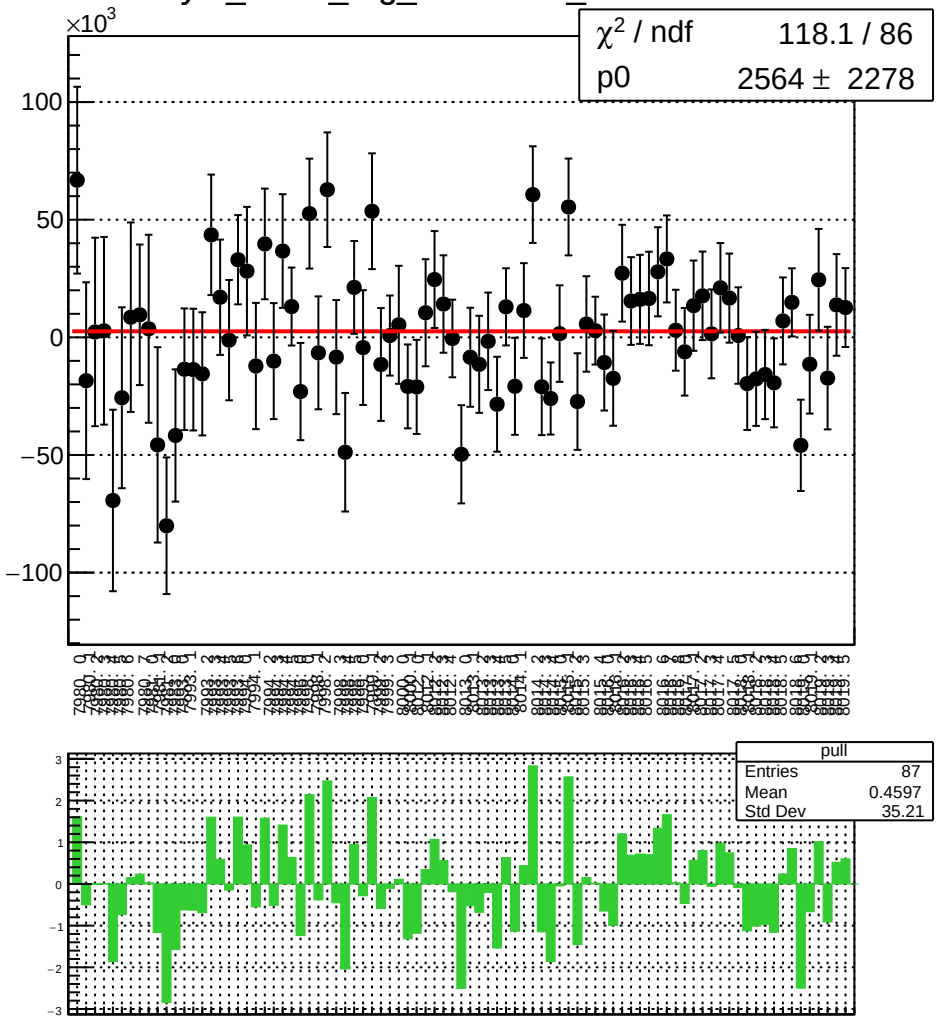

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.41 / 86
p0 −4.425e−14 ± 2.499e−13
pull
Entries 87
Mean 266.2
Std Dev 0
pull1D
Entries 87
Mean 0.008514
Std Dev 1.025

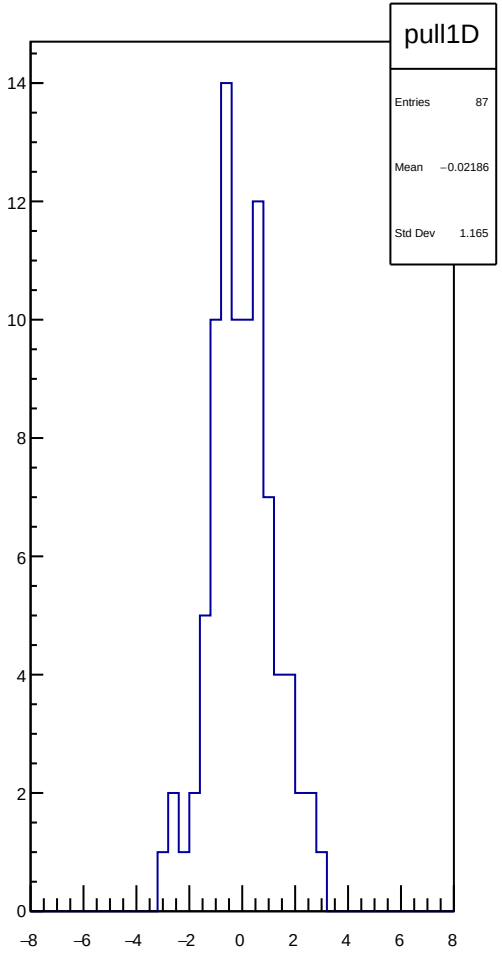

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.931e+05 / 86
p0 1.826e−10 ± 1.767e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

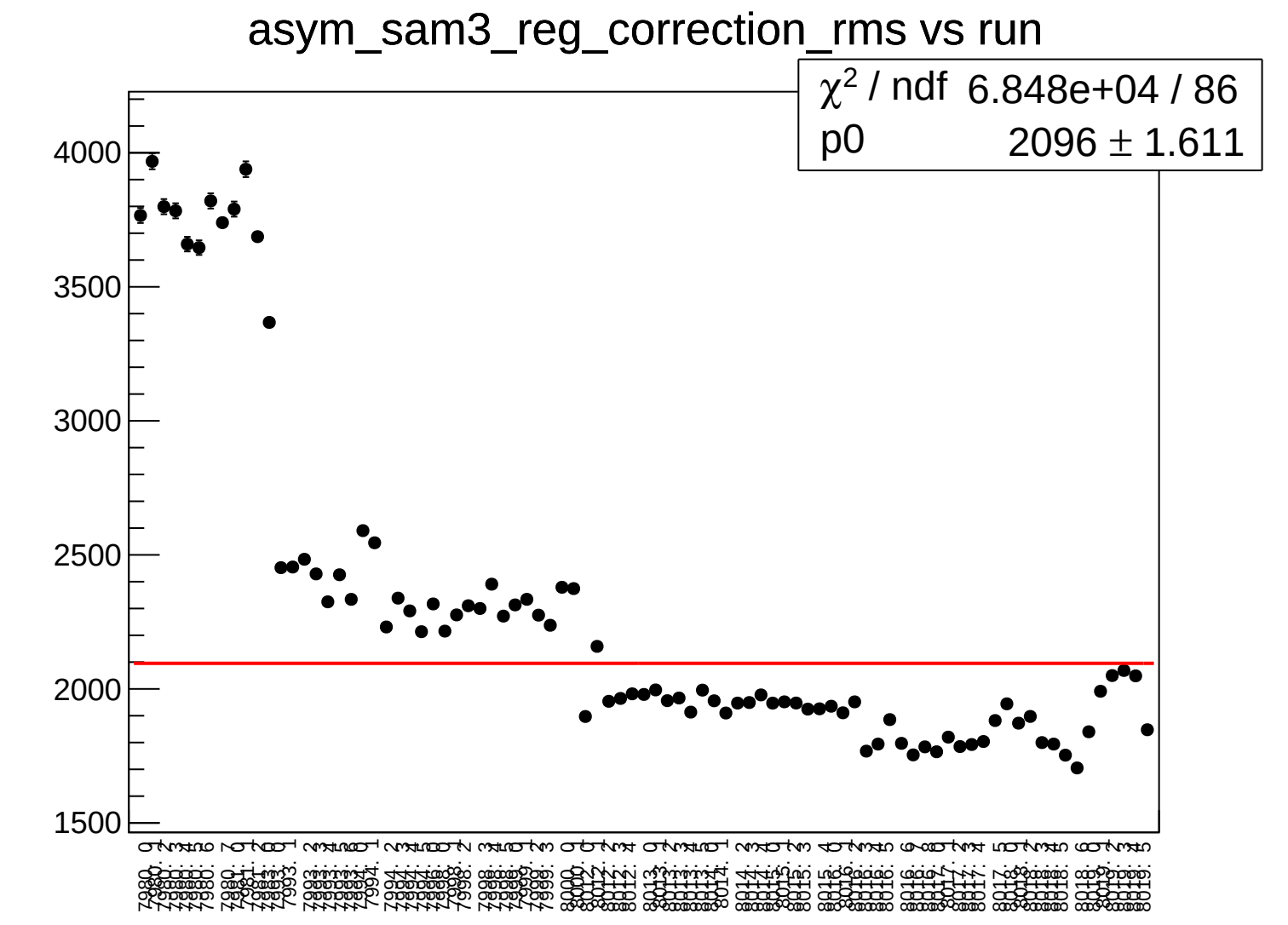

reg_asym_sam3_mean vs run
χ² / ndf 66.44 / 86
p0 −239.6 ± 269.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −34.27
Std Dev 47.95
2
1.5
1
0.5
0
−0.5
−1
−1.5

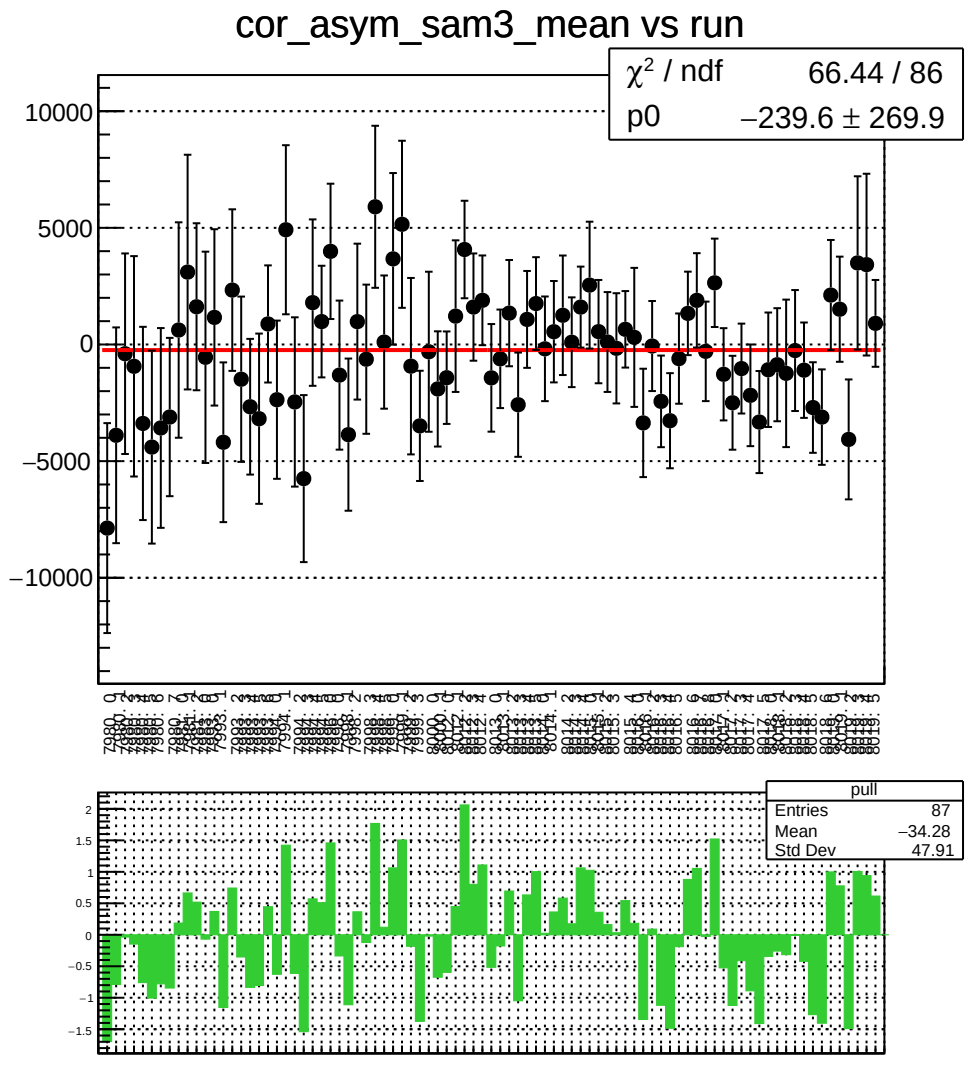

pull1D
Entries 87
Mean −0.01599
Std Dev 0.8738
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

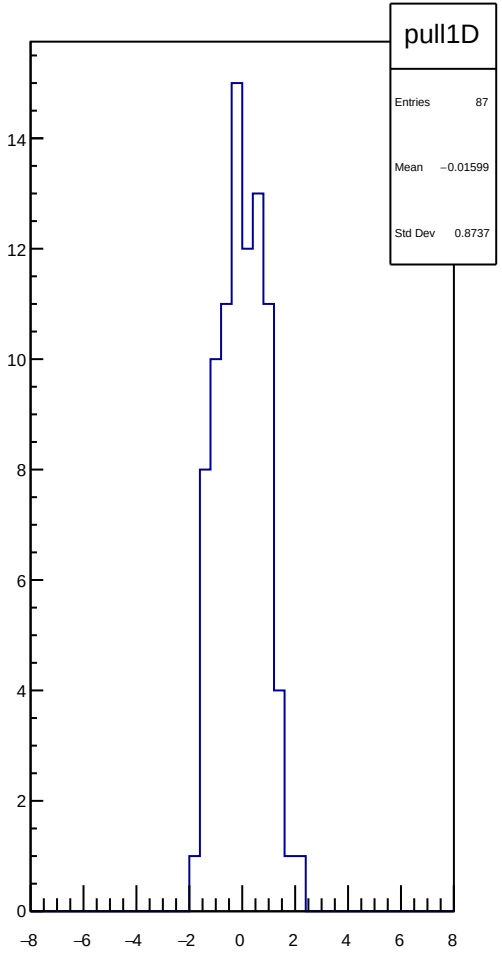

reg_asym_sam3_rms vs run
χ² / ndf 1.272e+05 / 86
p0 243.9 ± 0.1908
550
500
450
400
350
300
250
200
150

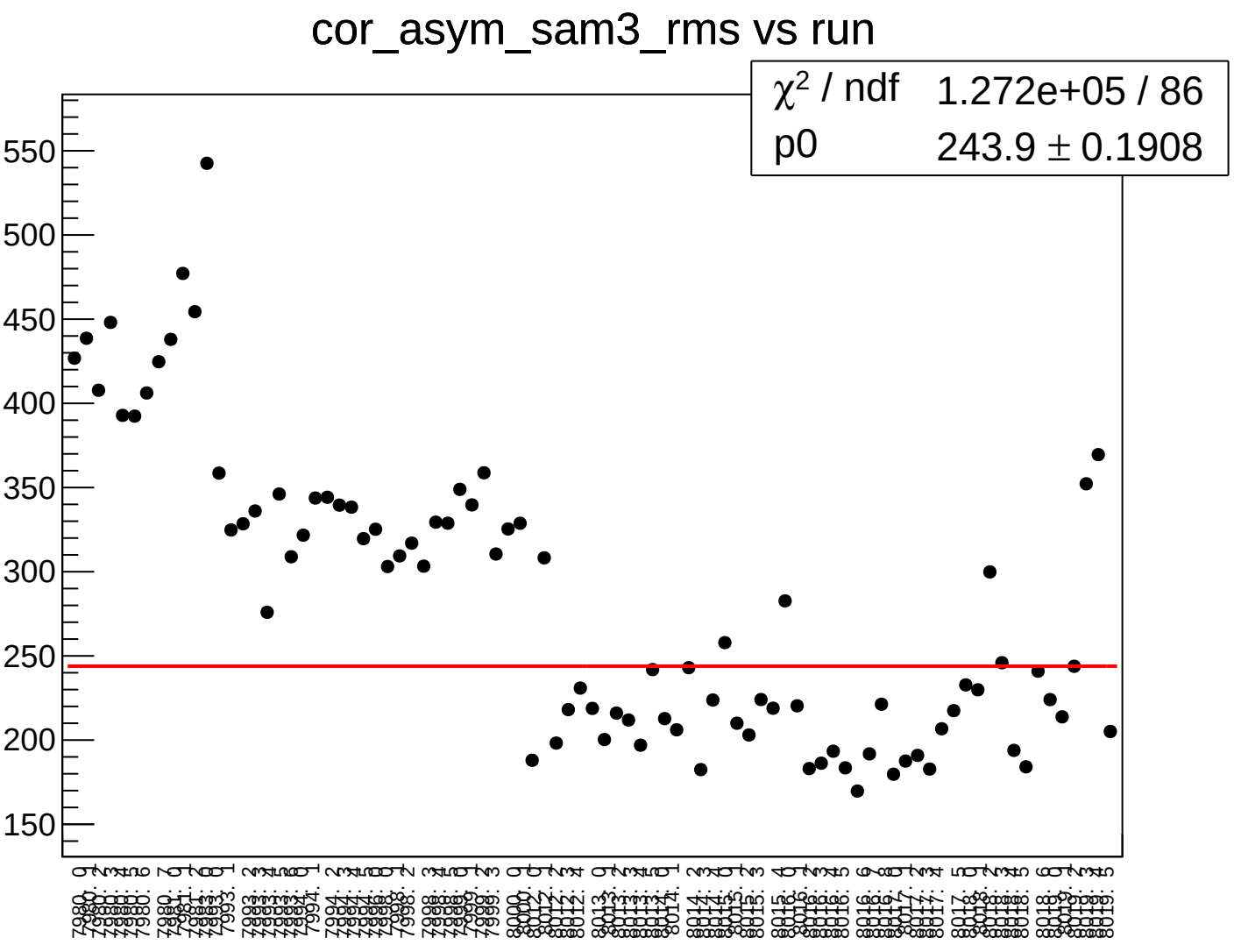

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 118.1 / 86
p0 2564 ± 2278
100
50
0
−50
−100
pull
Entries 87
Mean 0.4597
Std Dev 35.21
3
2
1
0
−1
−2
−3

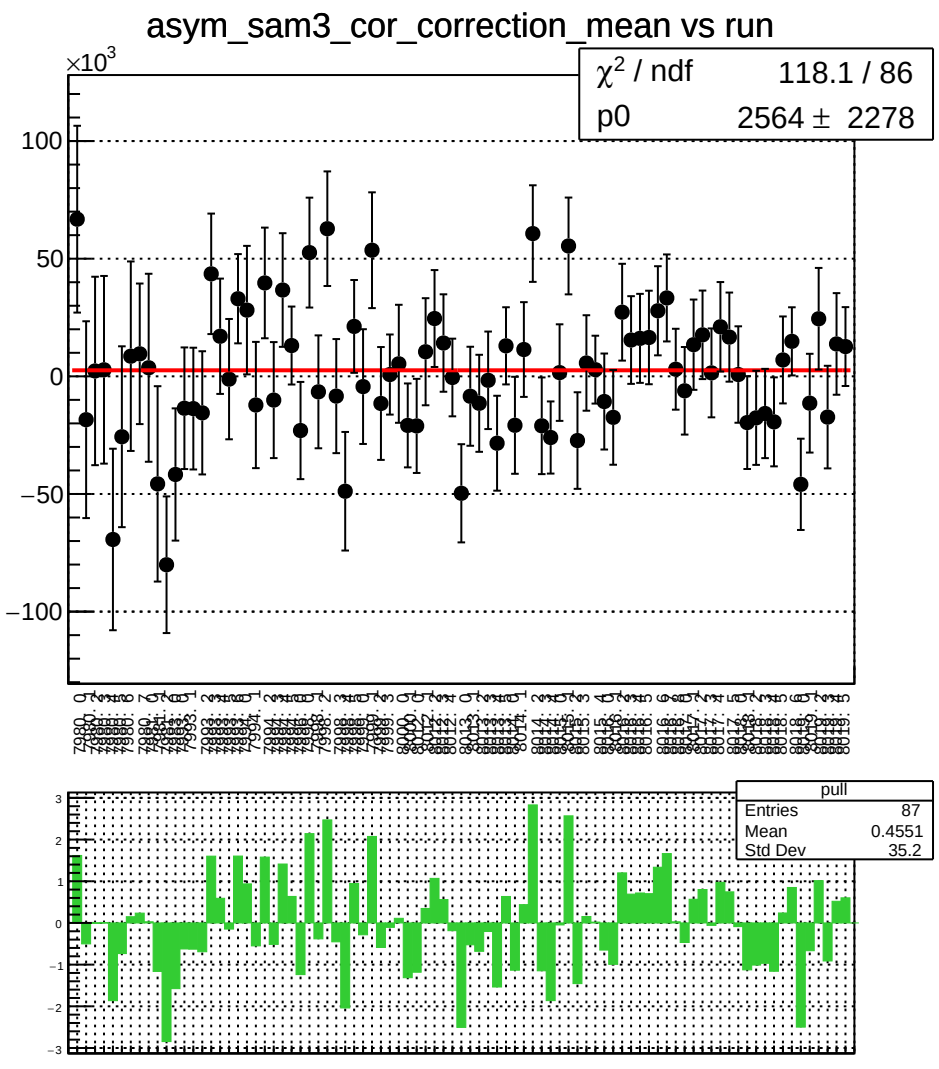

pull1D
Entries 87
Mean −0.02186
Std Dev 1.165
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

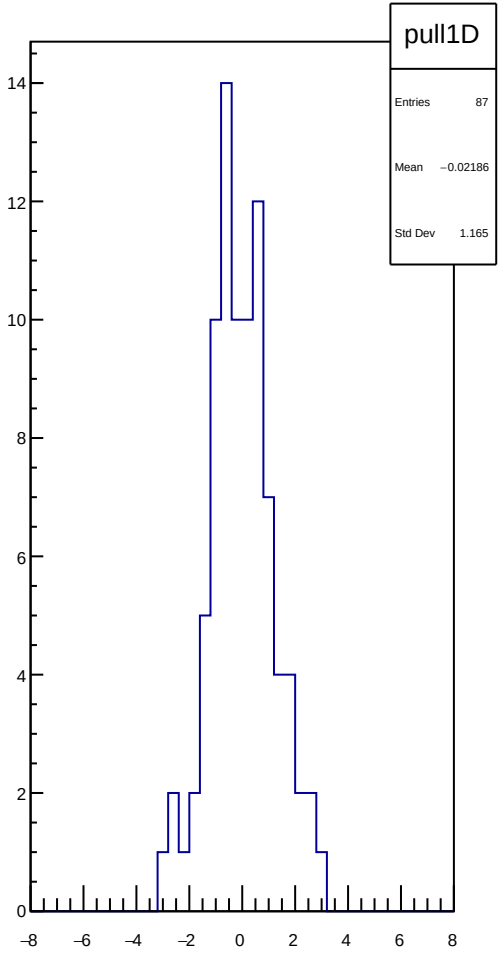

asym_sam3_reg_correction_rms vs run
χ² / ndf 6.848e+04 / 86
p0 2096 ± 1.611
4000
3500
3000
2500
2000
1500

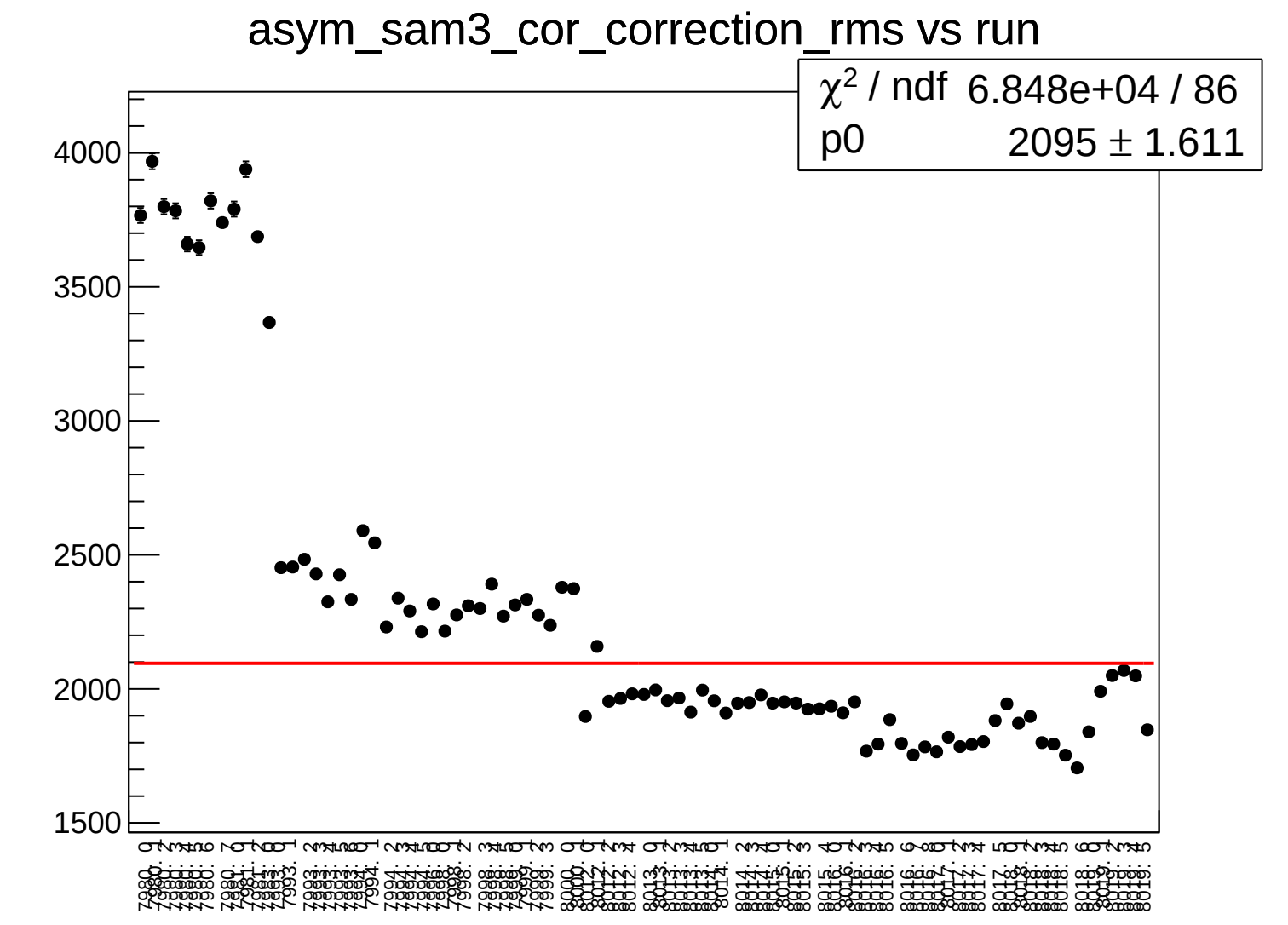

cor_asym_sam3_mean vs run
χ² / ndf 66.44 / 86
p0 −239.6 ± 269.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −34.28
Std Dev 47.91
2
1.5
1
0.5
0
−0.5
−1
−1.5

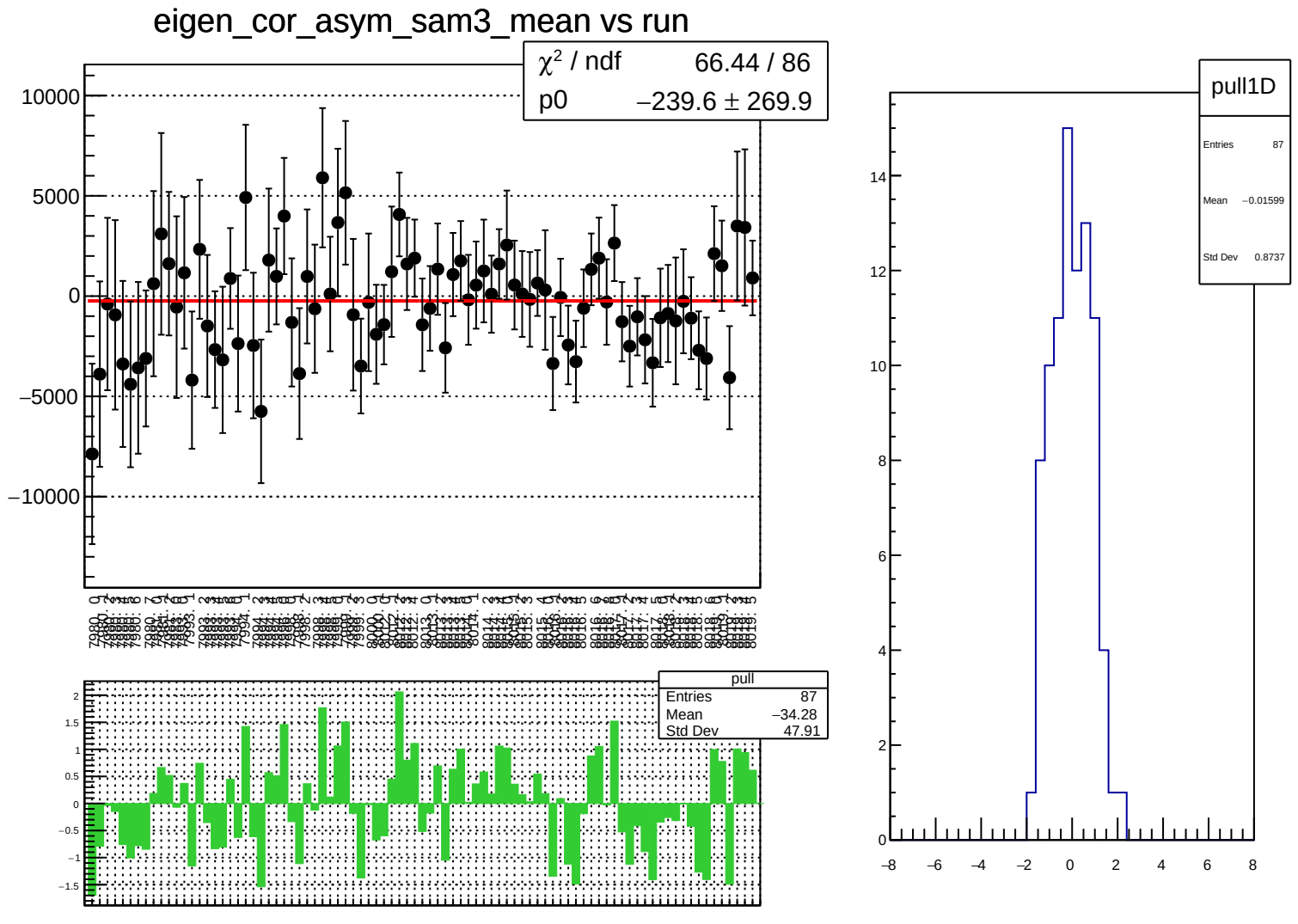

pull1D
Entries 87
Mean −0.01599
Std Dev 0.8737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

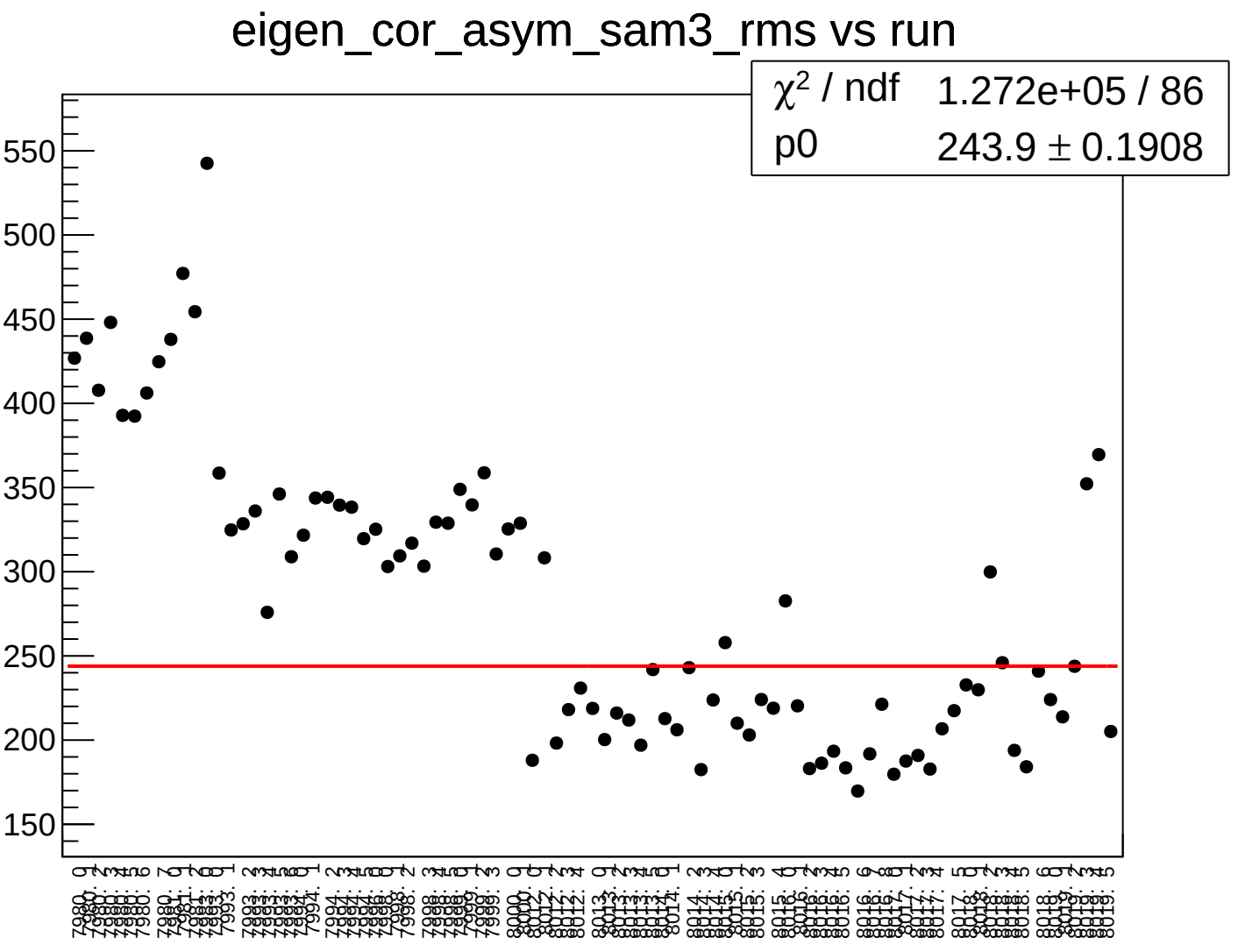

cor_asym_sam3_rms vs run
χ² / ndf 1.272e+05 / 86
p0 243.9 ± 0.1908
550
500
450
400
350
300
250
200
150

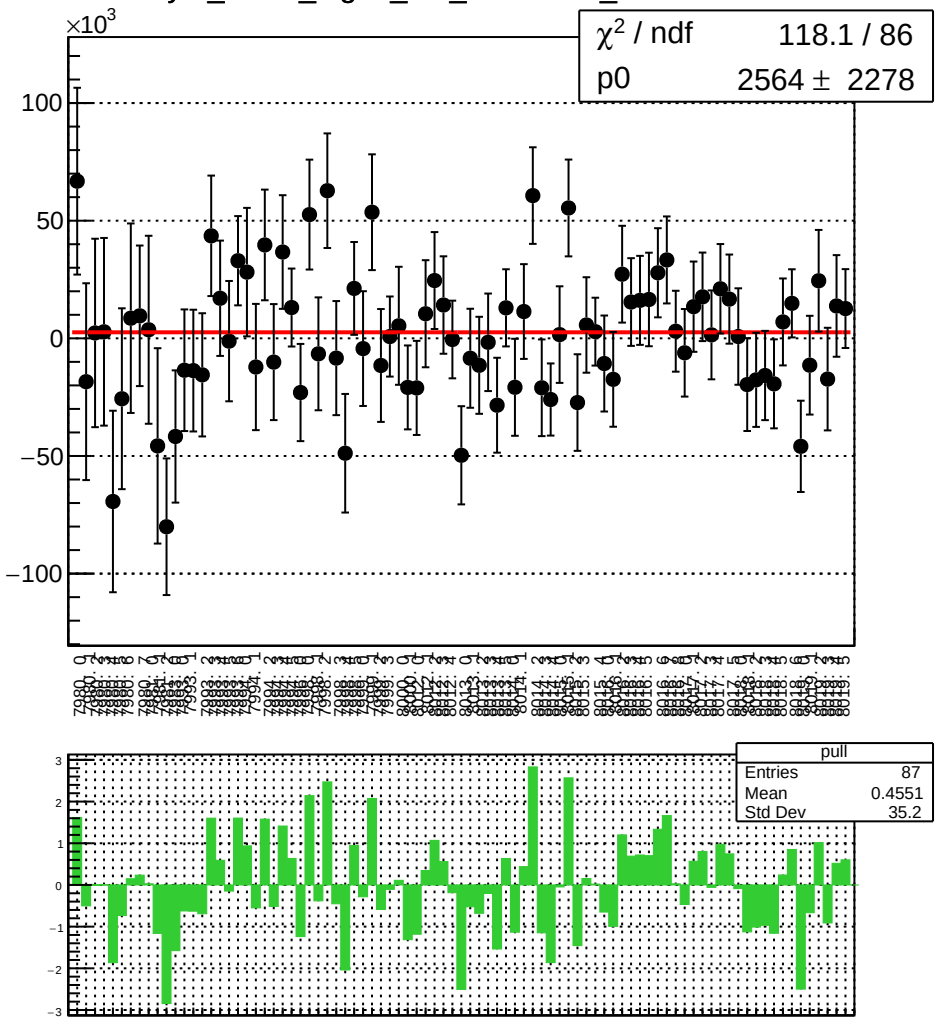

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 118.1 / 86
p0 2564 ± 2278
100
50
0
−50
−100
pull
Entries 87
Mean 0.4551
Std Dev 35.2
3
2
1
0
−1
−2
−3

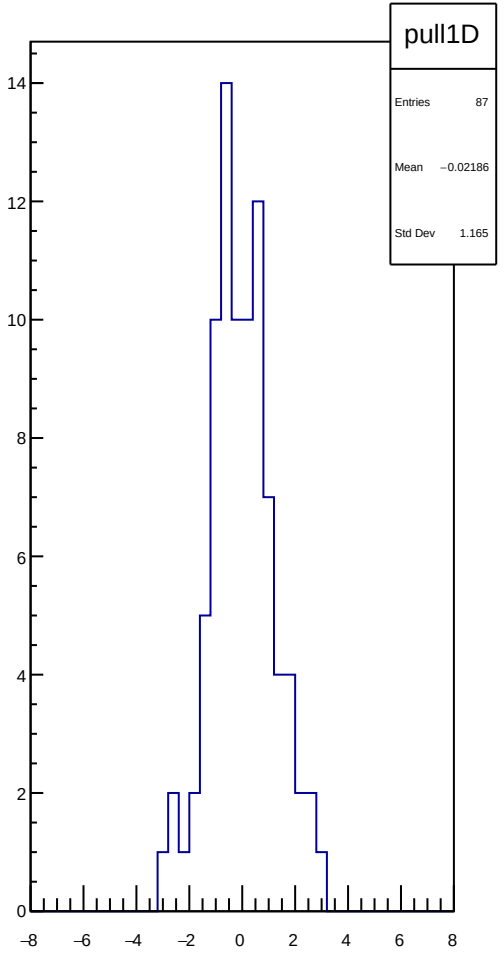

pull1D
Entries 87
Mean −0.02186
Std Dev 1.165
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

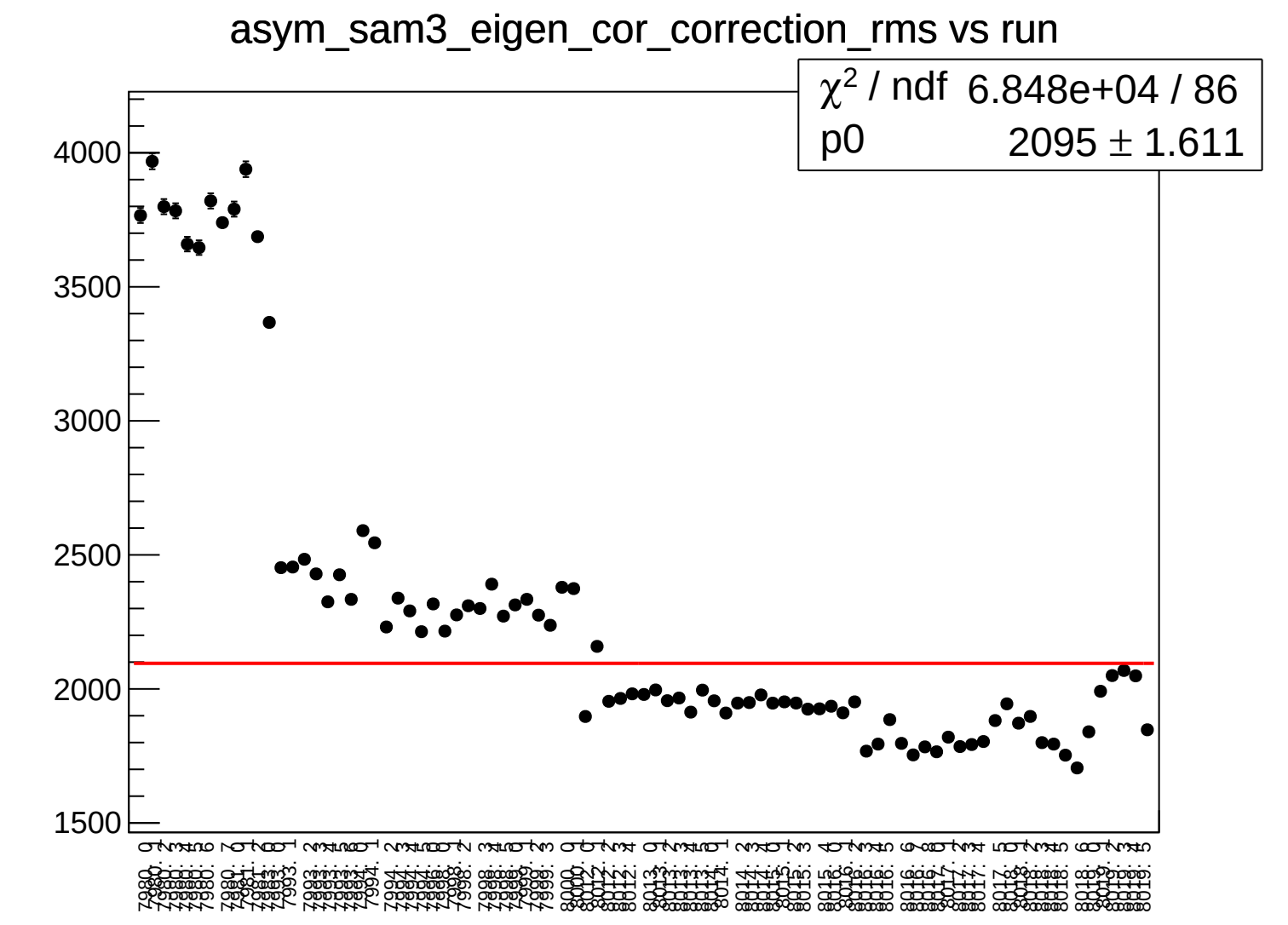

asym_sam3_cor_correction_rms vs run
χ² / ndf 6.848e+04 / 86
p0 2095 ± 1.611
4000
3500
3000
2500
2000
1500

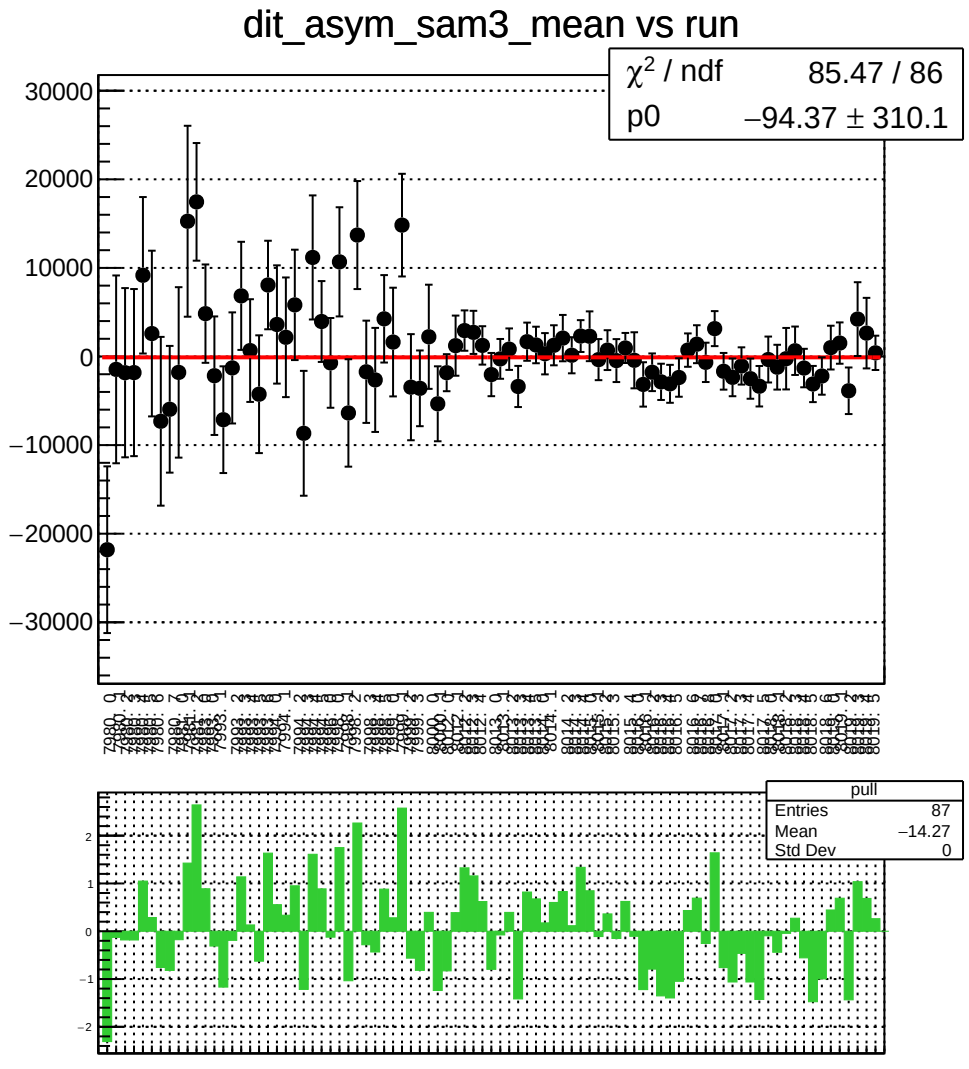

eigen_cor_asym_sam3_mean vs run
χ² / ndf 66.44 / 86
p0 −239.6 ± 269.9
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −34.28
Std Dev 47.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.01599
Std Dev 0.8737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

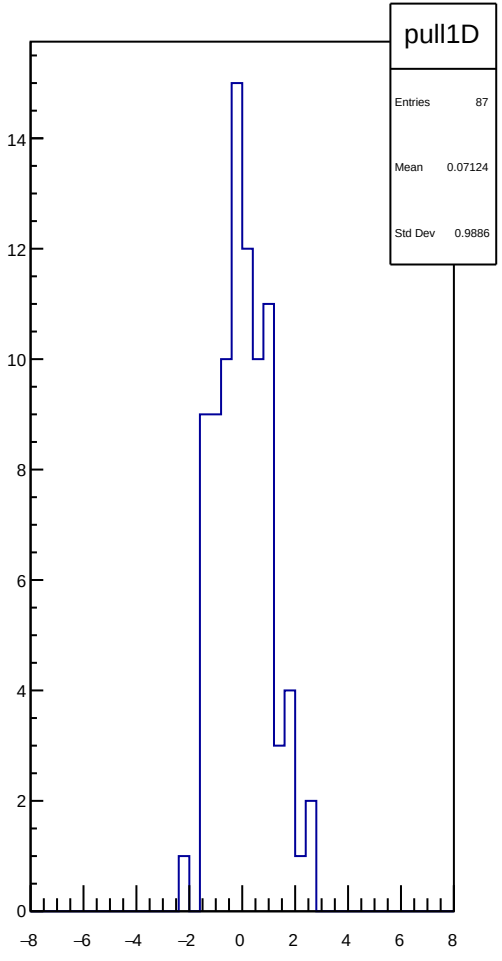

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.272e+05 / 86
p0 243.9 ± 0.1908
550
500
450
400
350
300
250
200
150

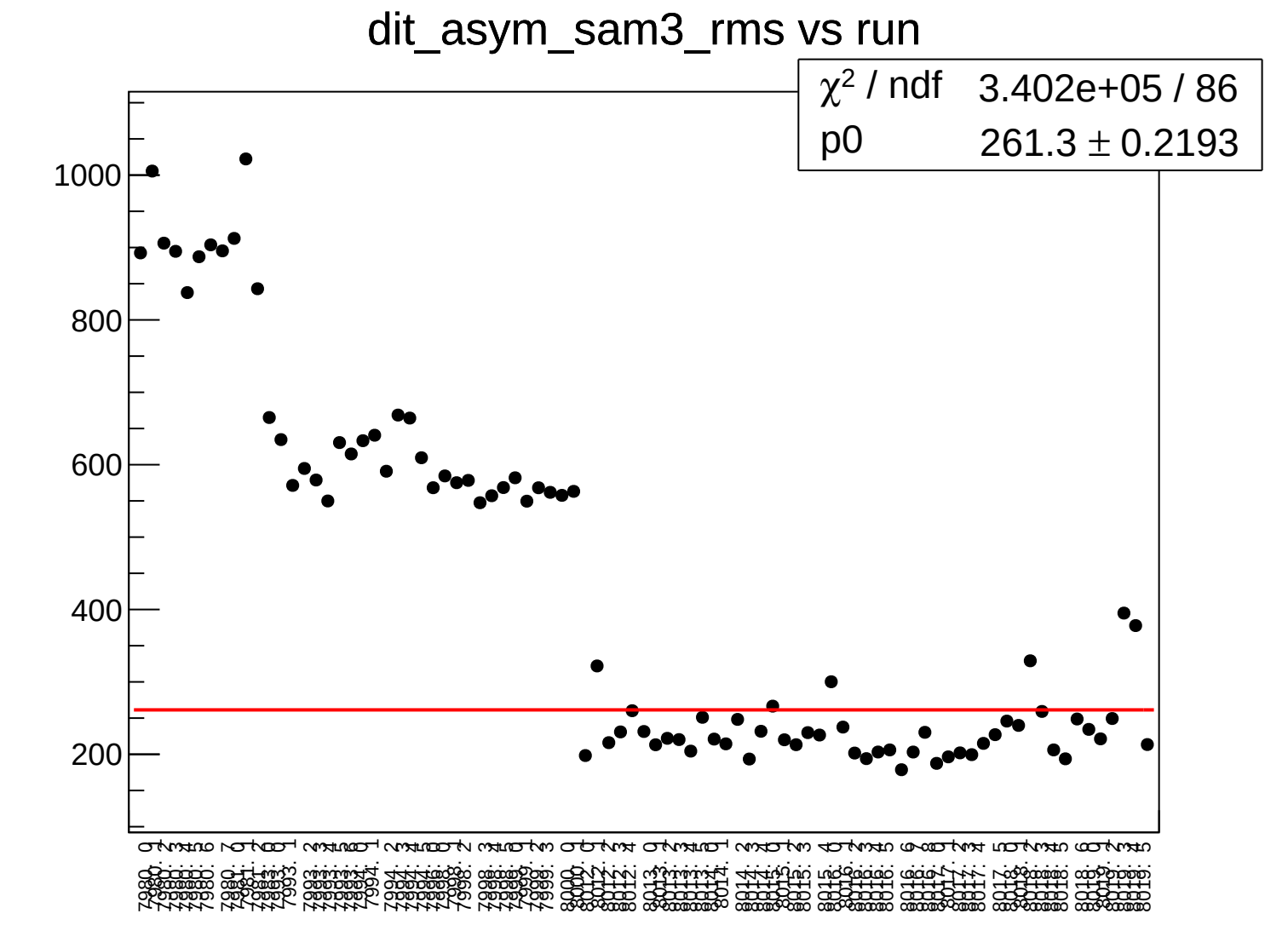

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 118.1 / 86
p0 2564 ± 2278
100
50
0
−50
−100
pull
Entries 87
Mean 0.4551
Std Dev 35.2
3
2
1
0
−1
−2
−3

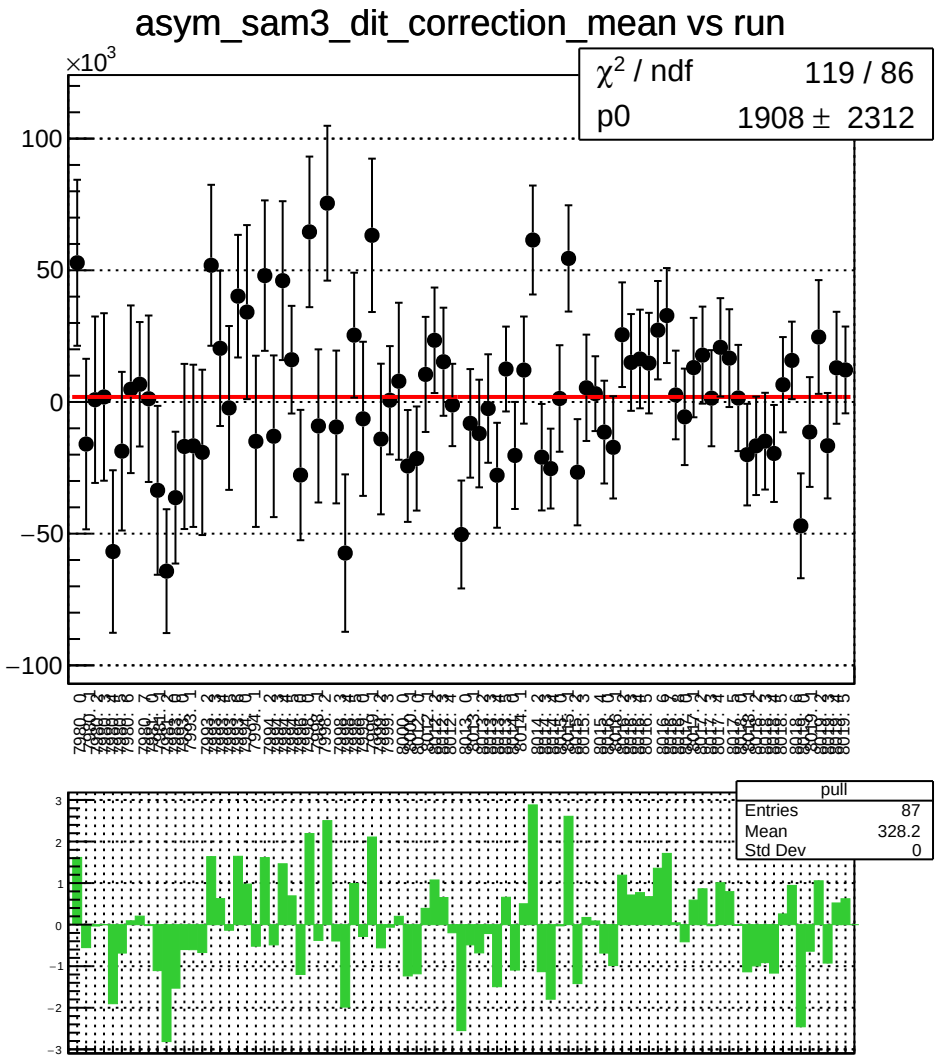

pull1D
Entries 87
Mean −0.02186
Std Dev 1.165
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

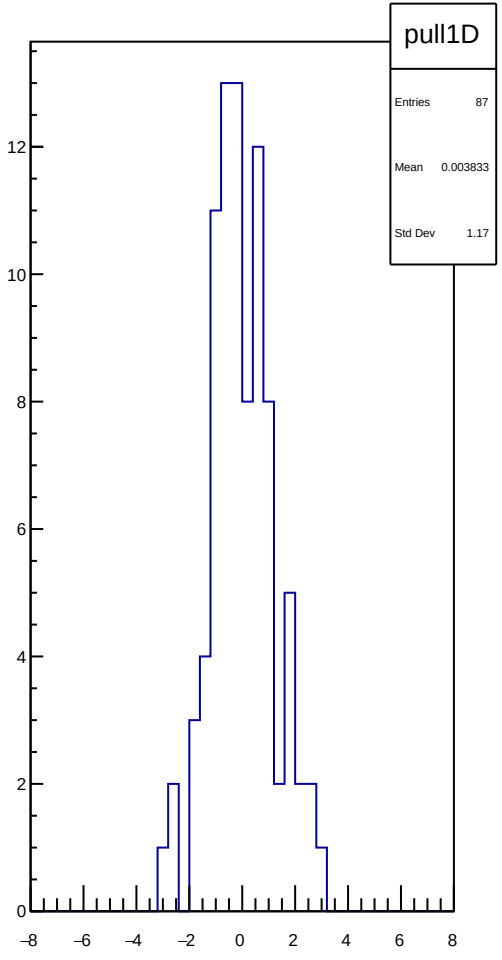

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 6.848e+04 / 86
p0 2095 ± 1.611
4000
3500
3000
2500
2000
1500

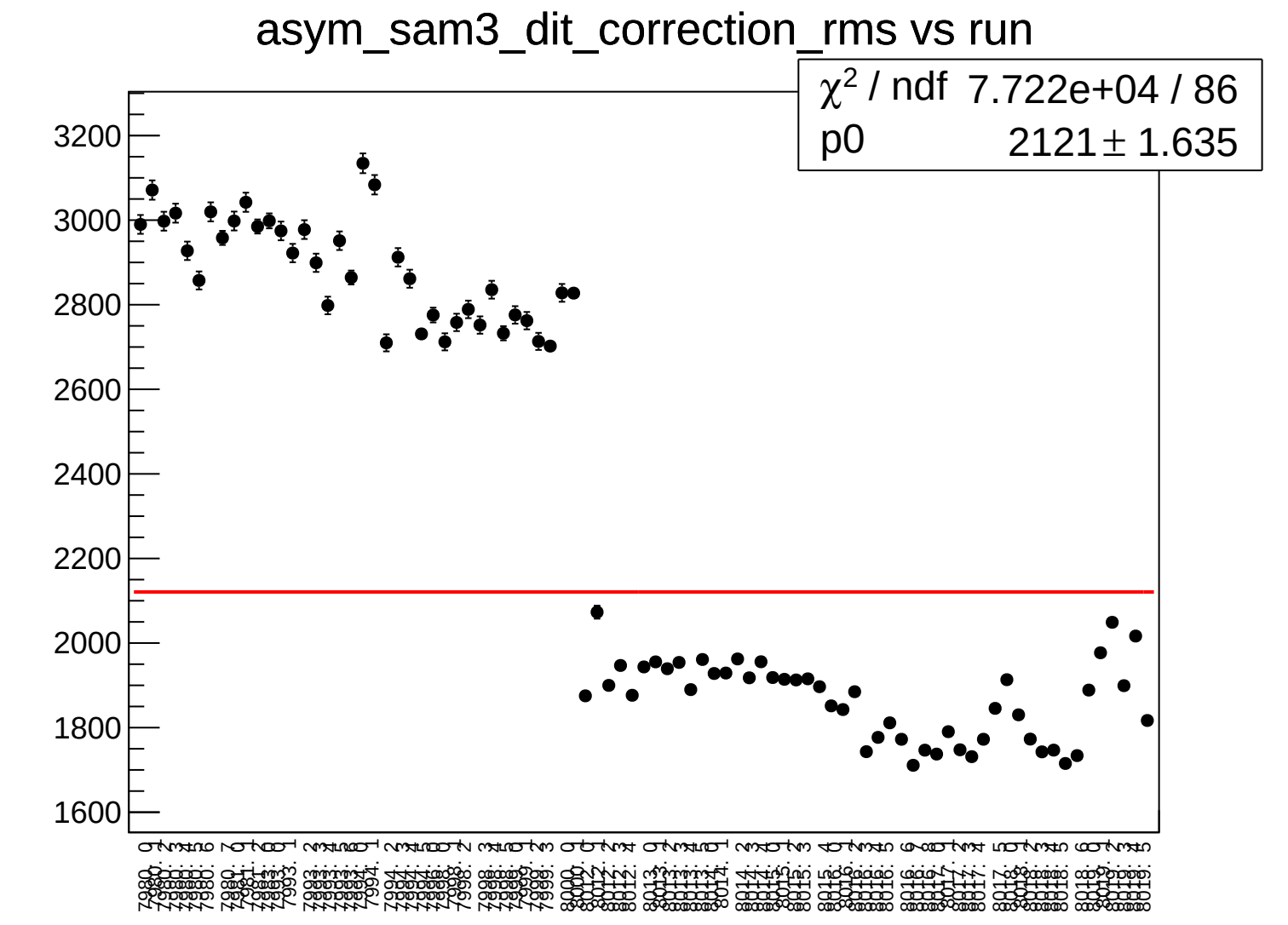

dit_asym_sam3_mean vs run
χ² / ndf 85.47 / 86
p0 −94.37 ± 310.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −14.27
Std Dev 0
2
1
0
−1
−2

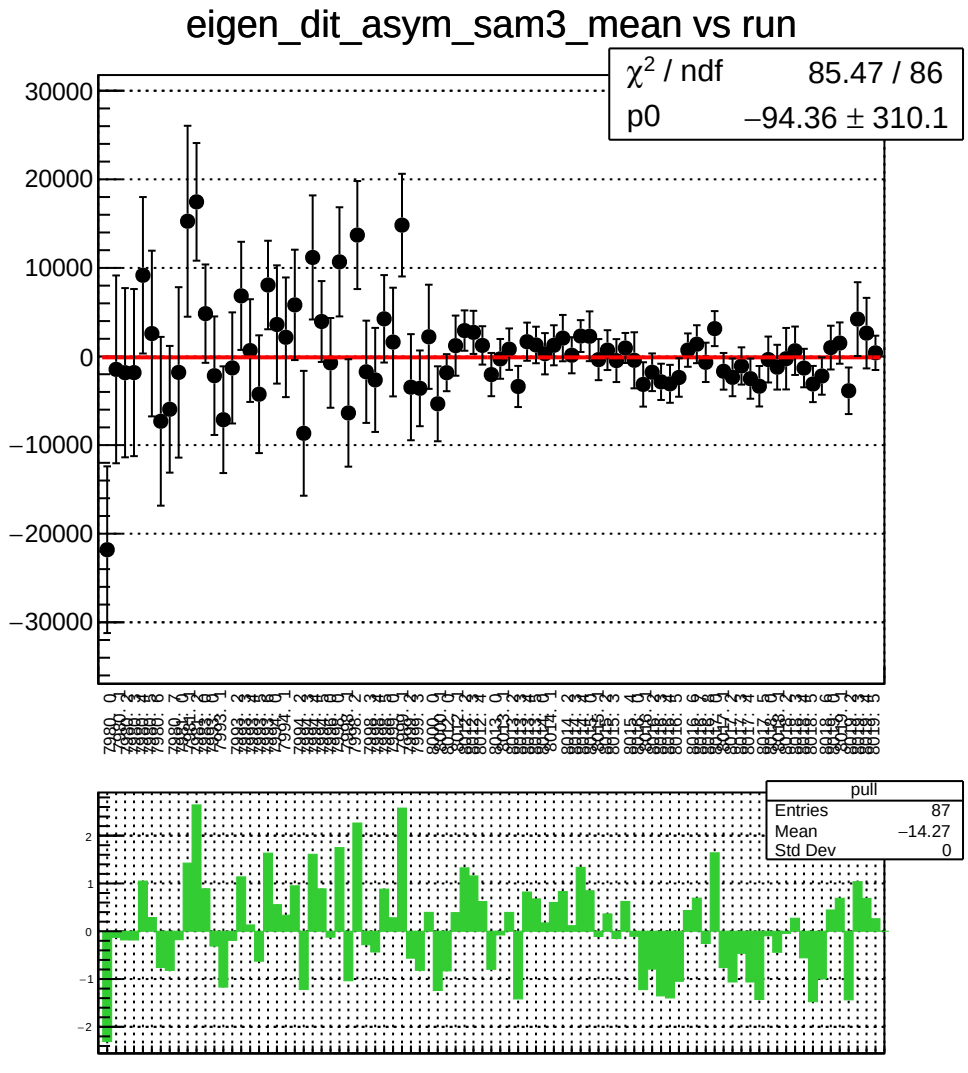

pull1D
Entries 87
Mean 0.07124
Std Dev 0.9886
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

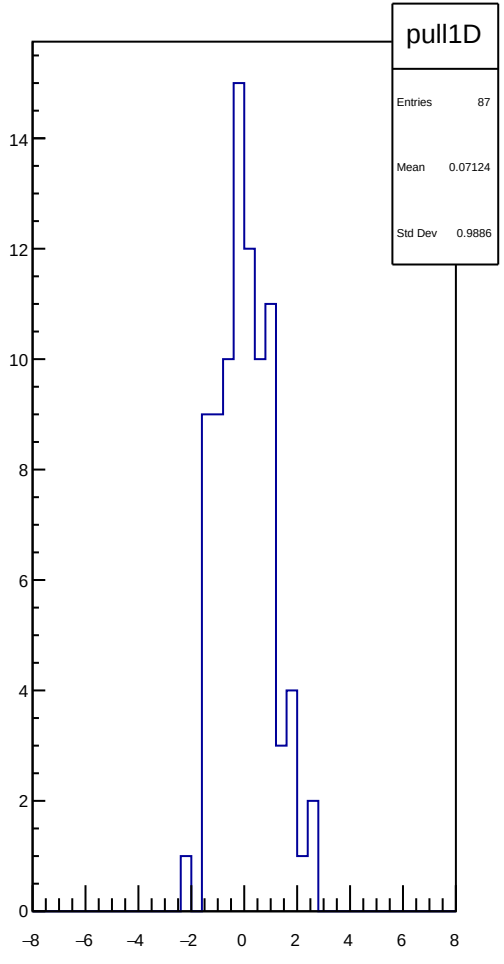

dit_asym_sam3_rms vs run
χ² / ndf 3.402e+05 / 86
p0 261.3 ± 0.2193
1000
800
600
400
200

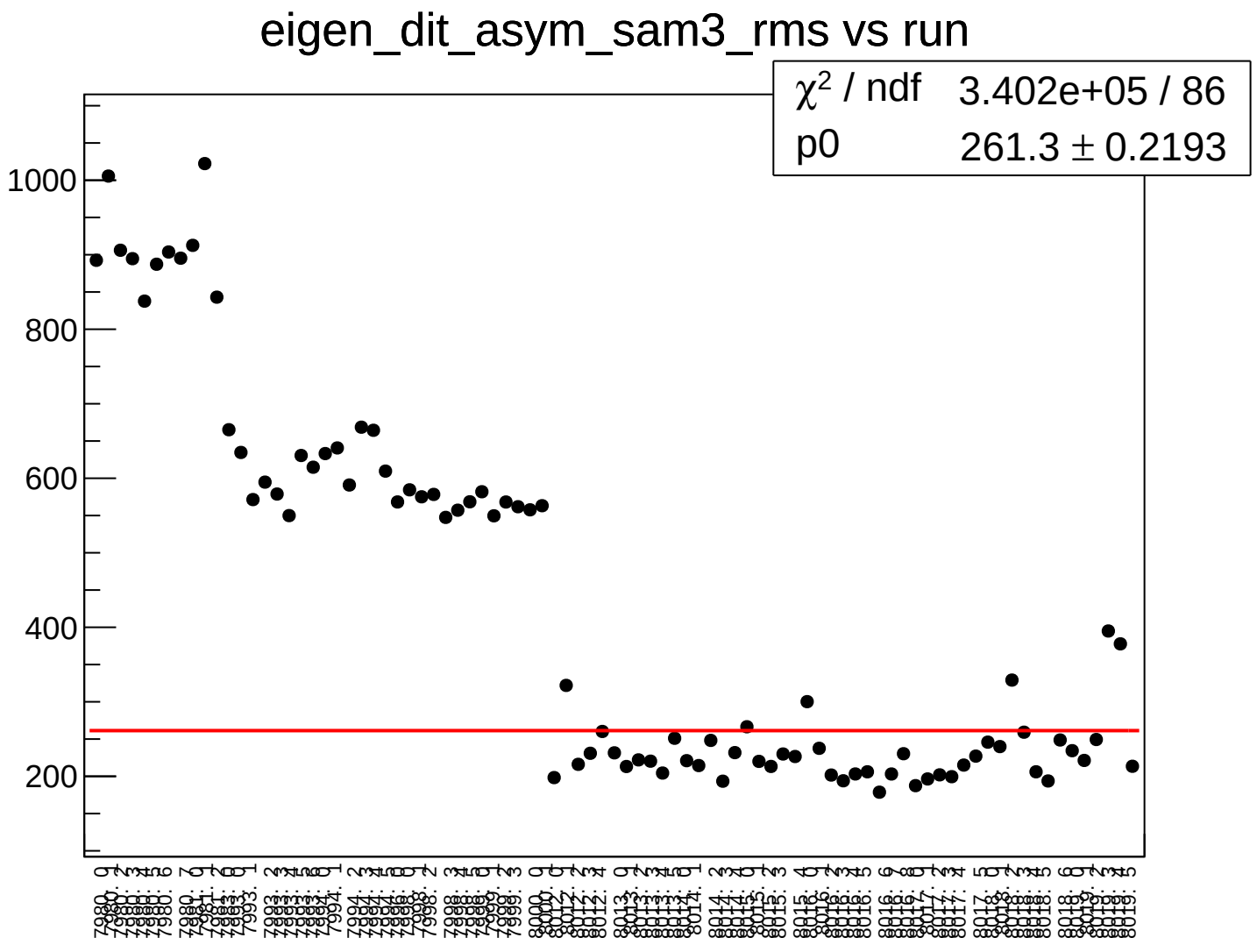

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 119 / 86
p0 1908 ± 2312
100
50
0
−50
−100
pull
Entries 87
Mean 328.2
Std Dev 0
3
2
1
0
−1
−2
−3

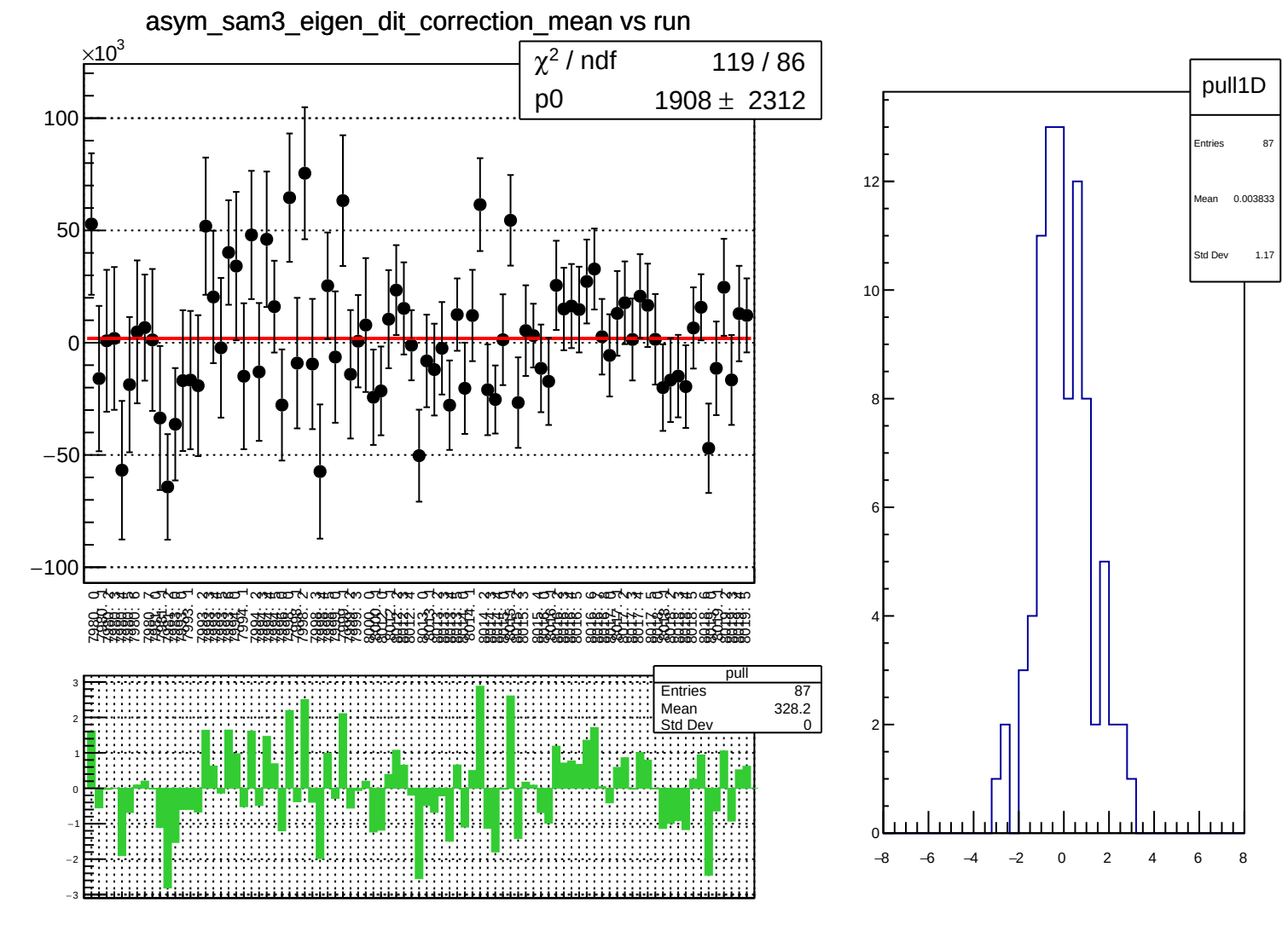

pull1D
Entries 87
Mean 0.003833
Std Dev 1.17
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

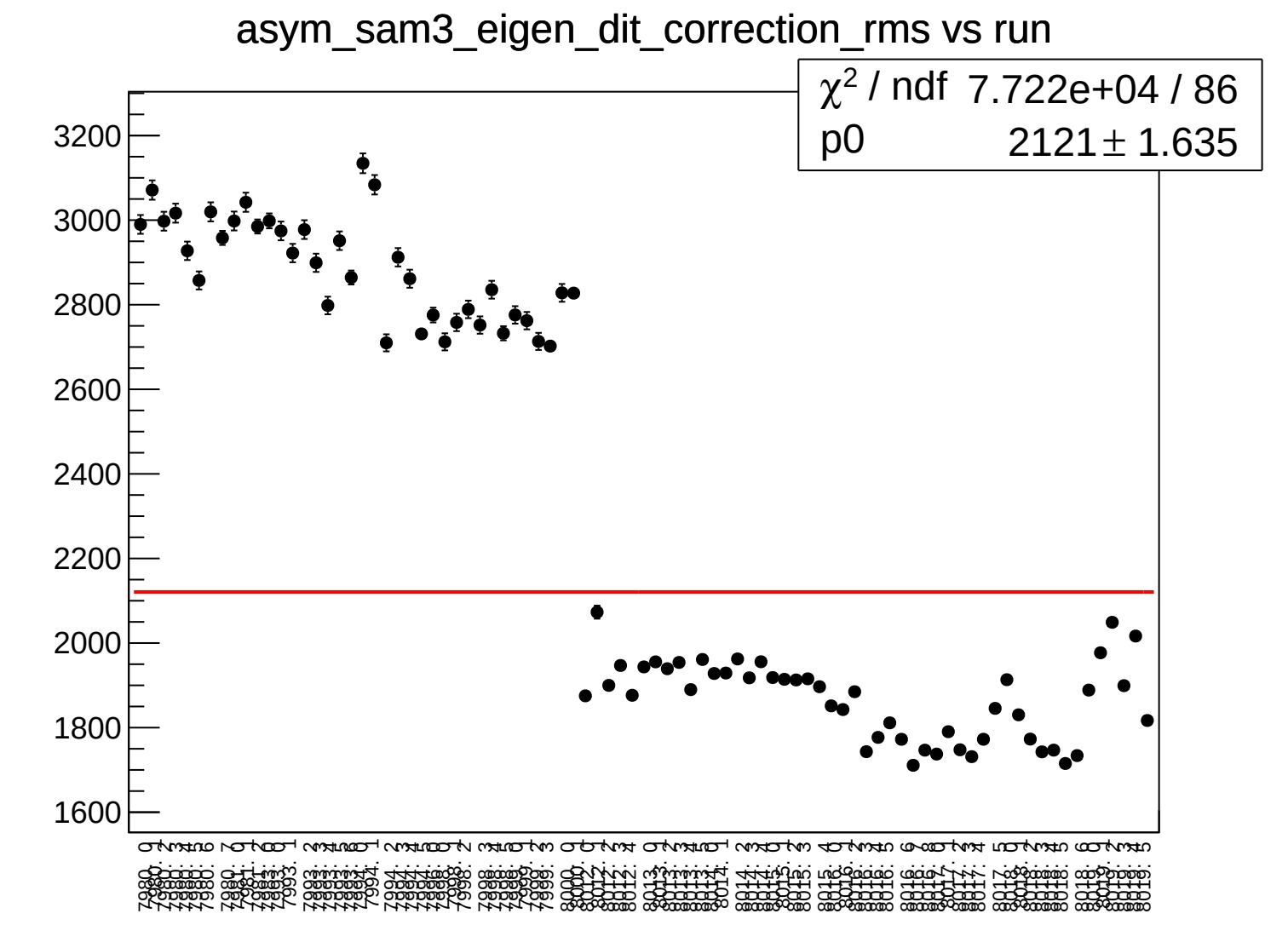

asym_sam3_dit_correction_rms vs run
χ² / ndf 7.722e+04 / 86
p0 2121 ± 1.635
3200
3000
2800
2600
2400
2200
2000
1800
1600

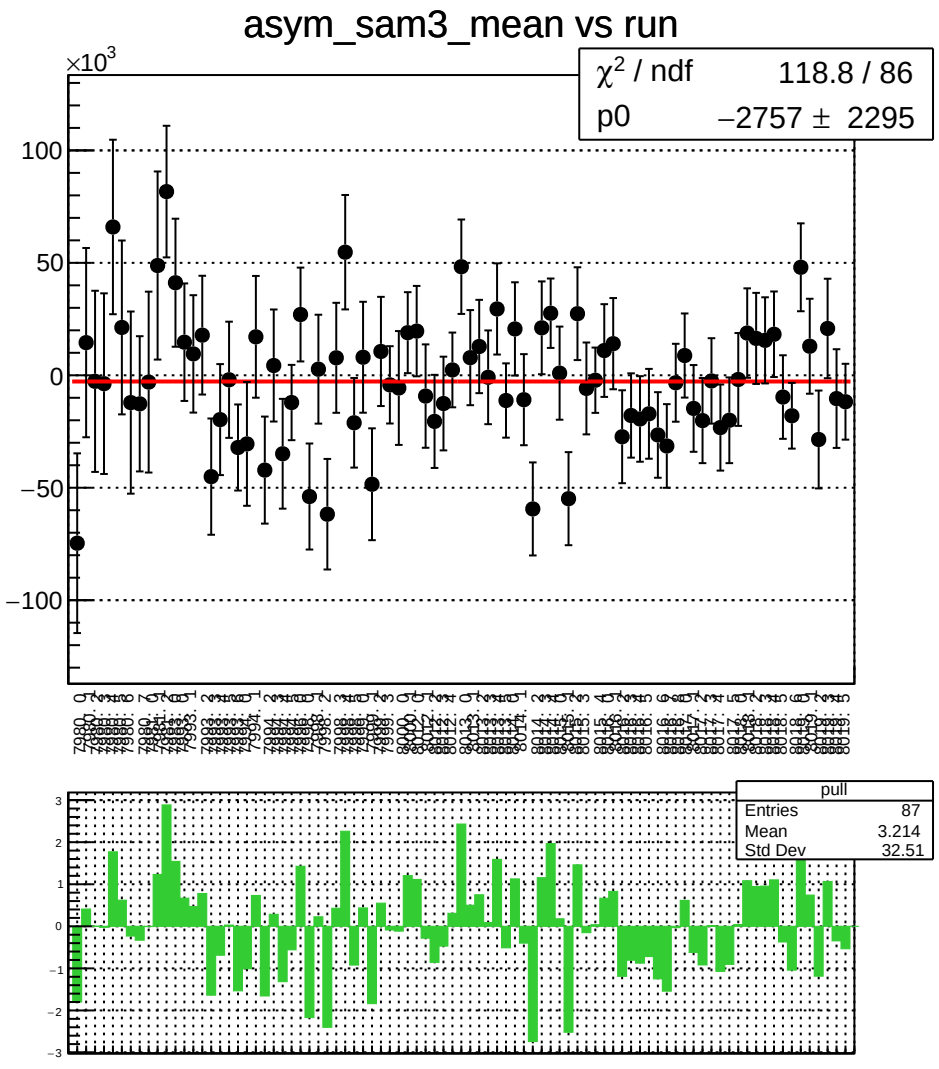

eigen_dit_asym_sam3_mean vs run
χ² / ndf 85.47 / 86
p0 −94.36 ± 310.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −14.27
Std Dev 0
2
1
0
−1
−2

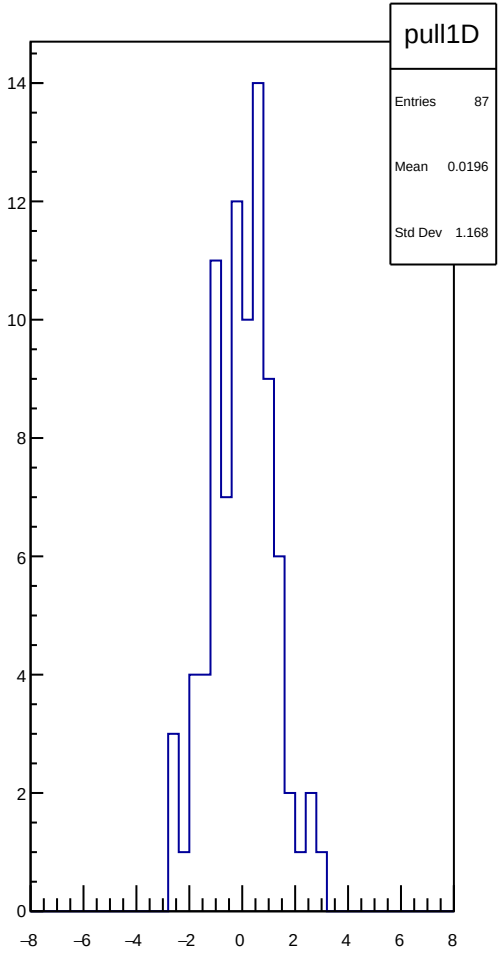

pull1D
Entries 87
Mean 0.07124
Std Dev 0.9886
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

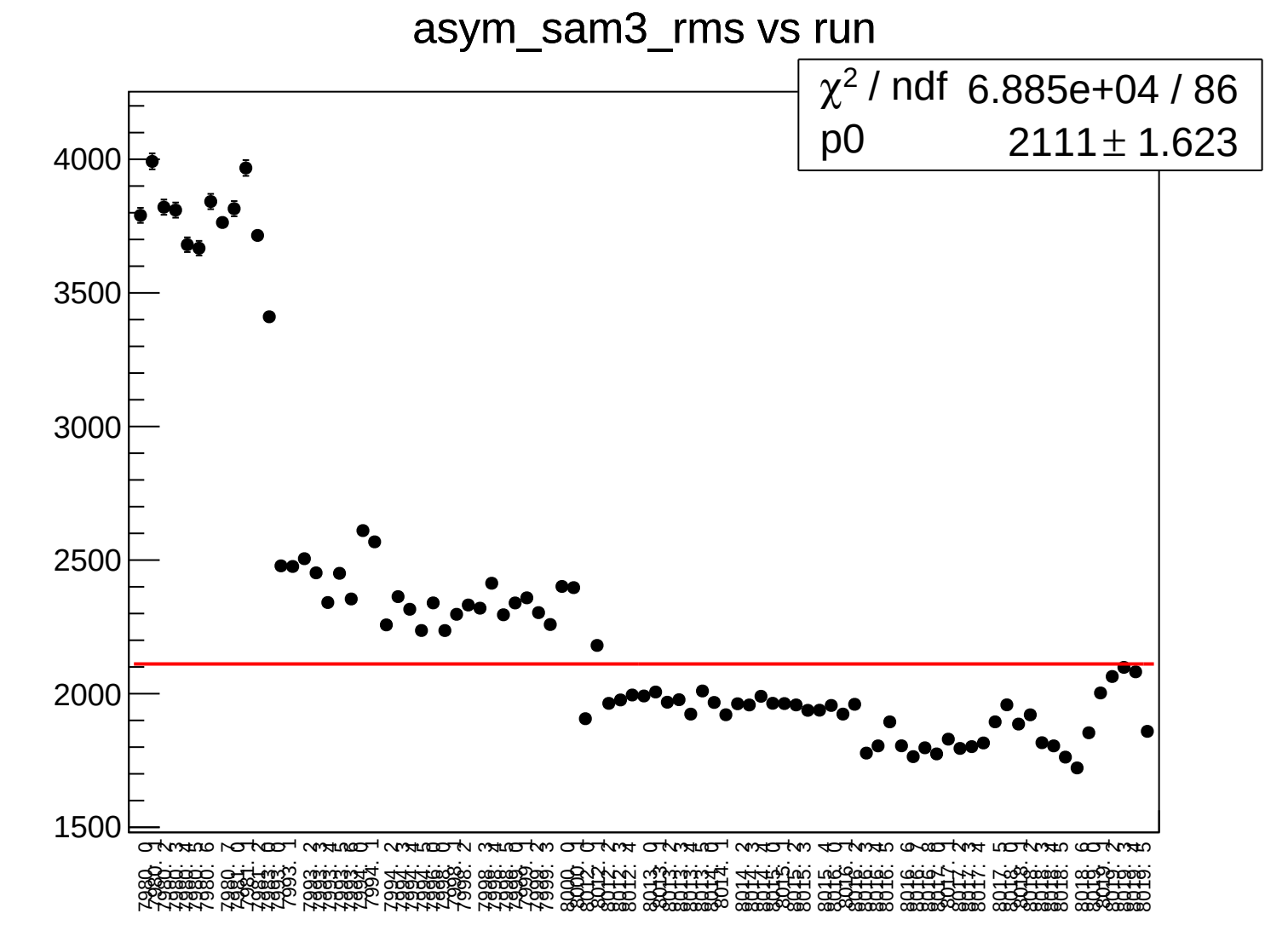

eigen_dit_asym_sam3_rms vs run
χ² / ndf 3.402e+05 / 86
p0 261.3 ± 0.2193
1000
800
600
400
200

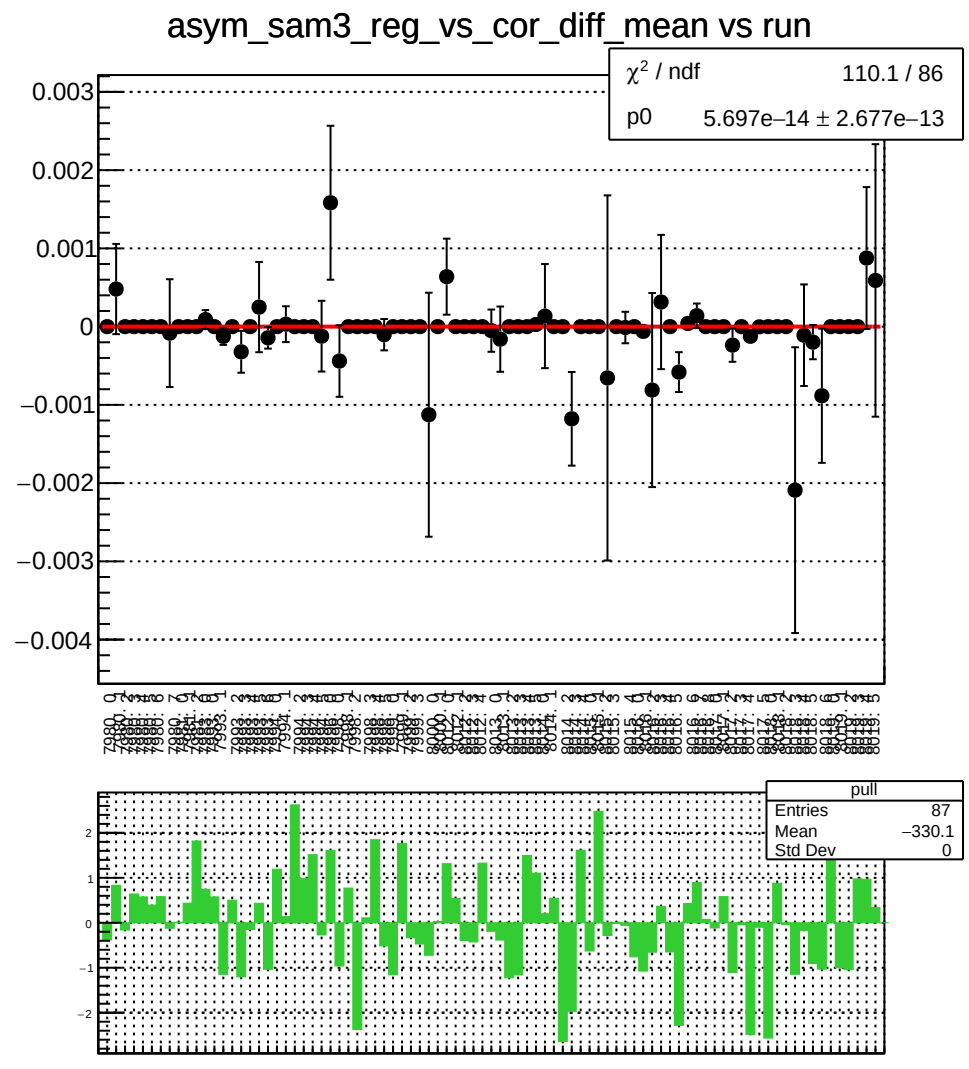

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 119 / 86
p0 1908 ± 2312
100
50
0
−50
−100
pull
Entries 87
Mean 328.2
Std Dev 0
pull1D
Entries 87
Mean 0.003833
Std Dev 1.17
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

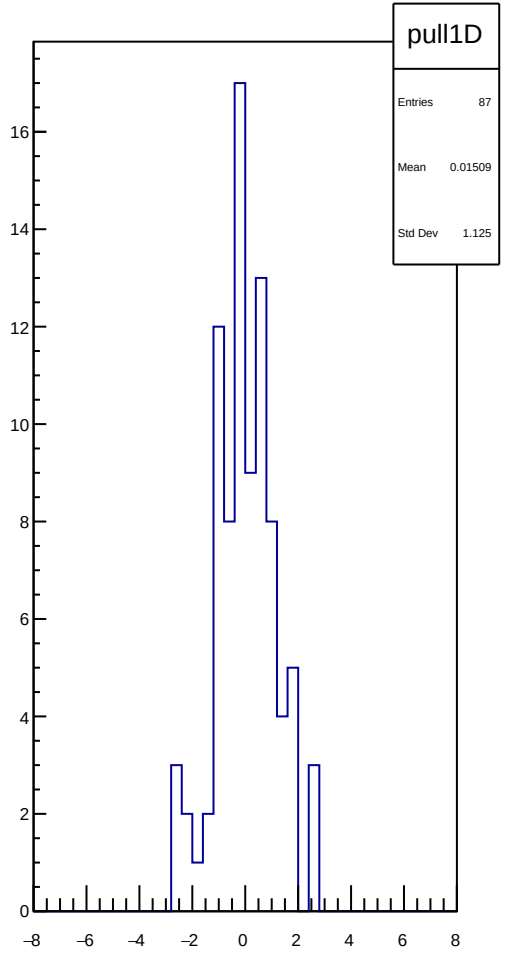

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 7.722e+04 / 86
p0 2121 ± 1.635
3200
3000
2800
2600
2400
2200
2000
1800
1600

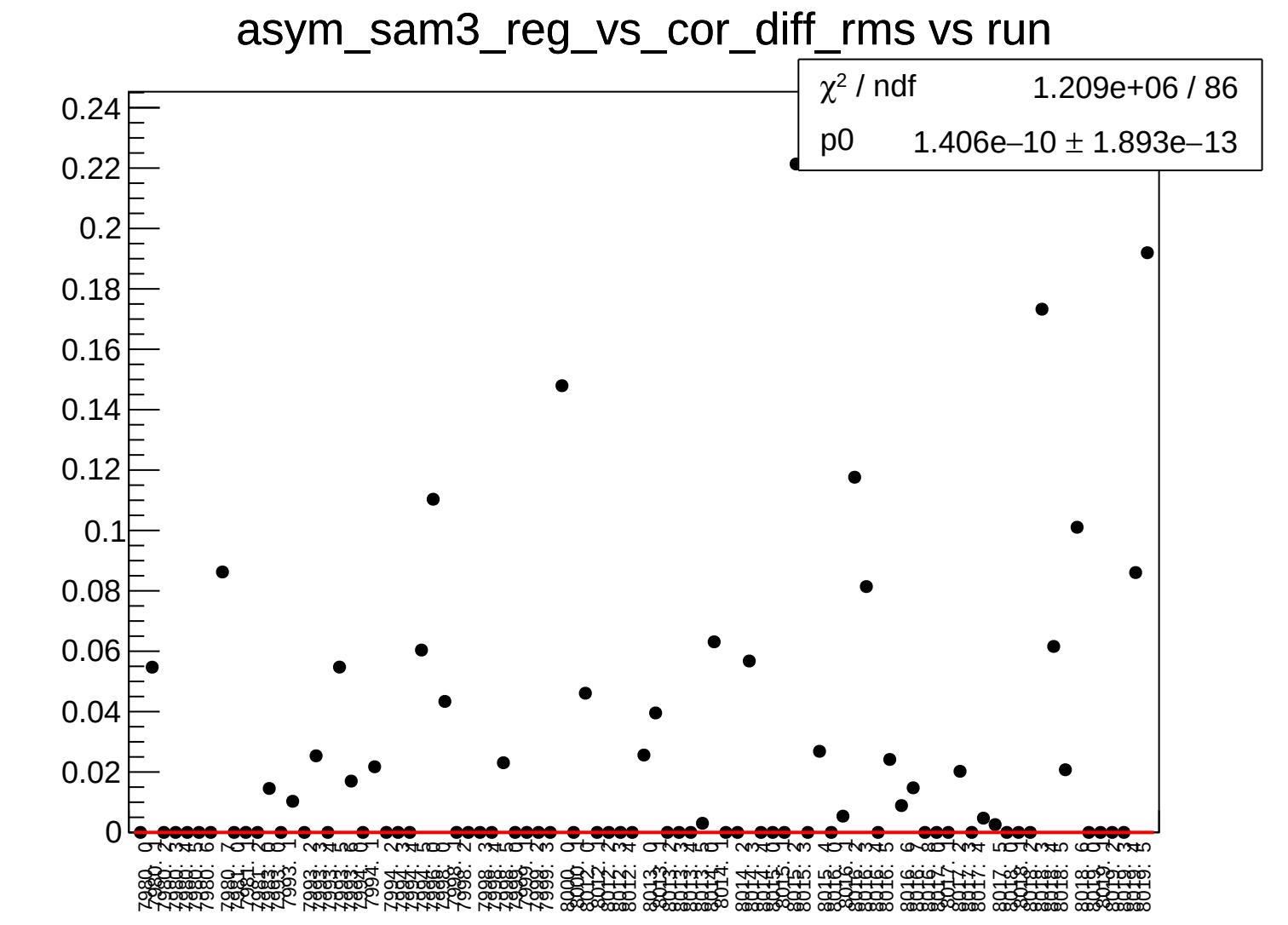

asym_sam3_mean vs run
χ^2 / ndf 118.8 / 86
p0 −2757 ± 2295
×10^3
pull
Entries 87
Mean 3.214
Std Dev 32.51

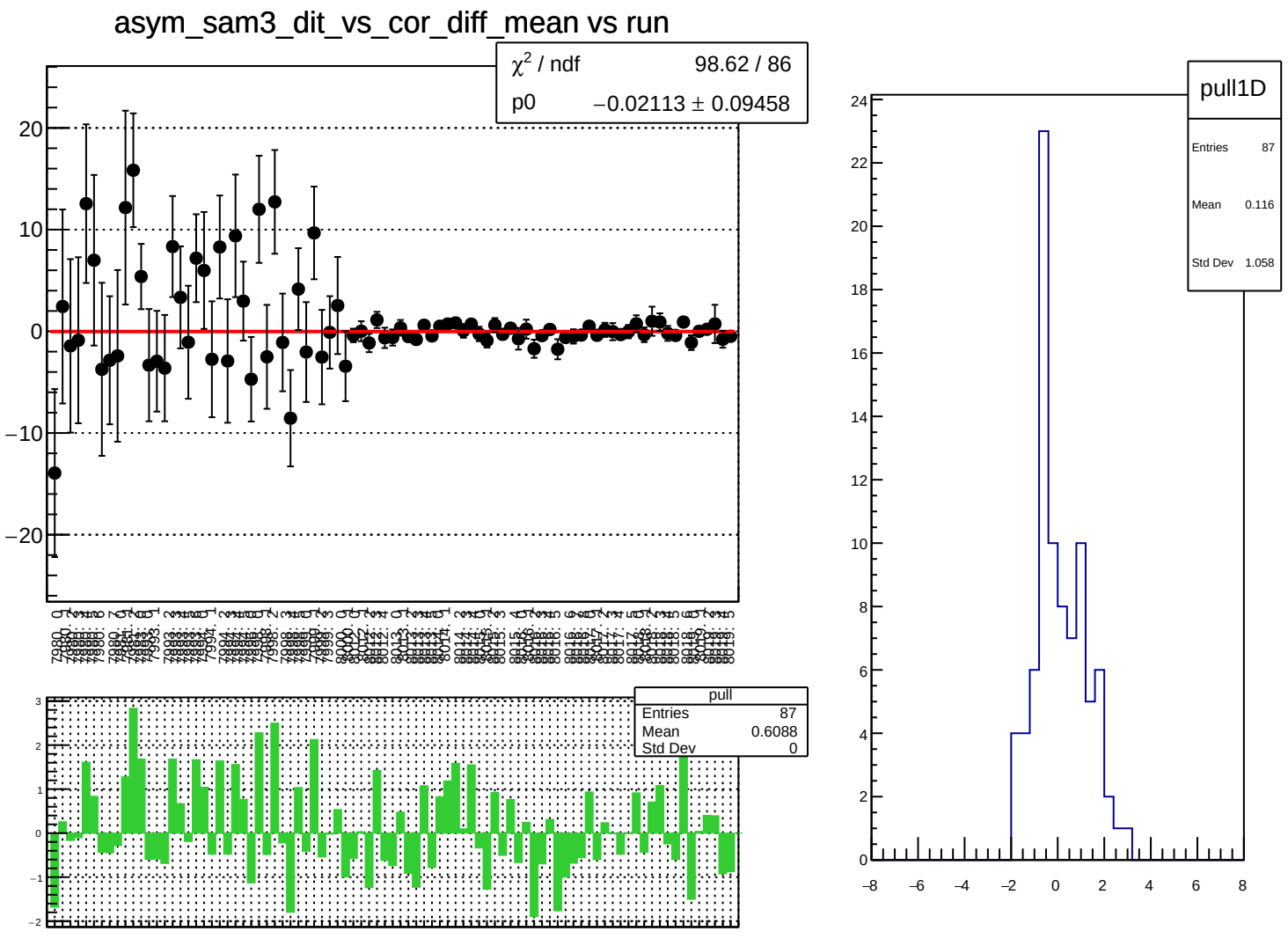

pull1D
Entries 87
Mean 0.0196
Std Dev 1.168

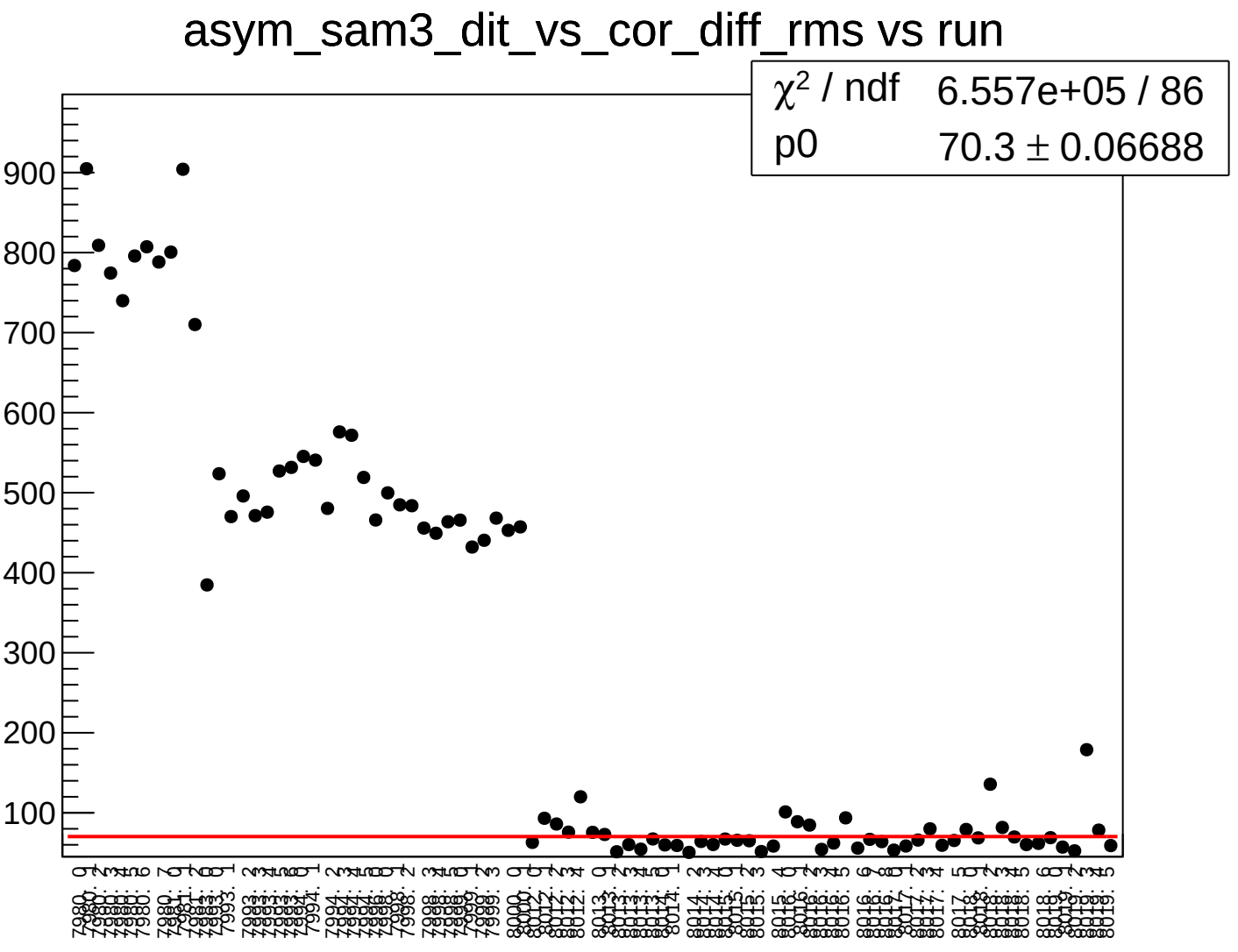

asym_sam3_rms vs run
χ² / ndf 6.885e+04 / 86
p0 2111 ± 1.623
4000
3500
3000
2500
2000
1500

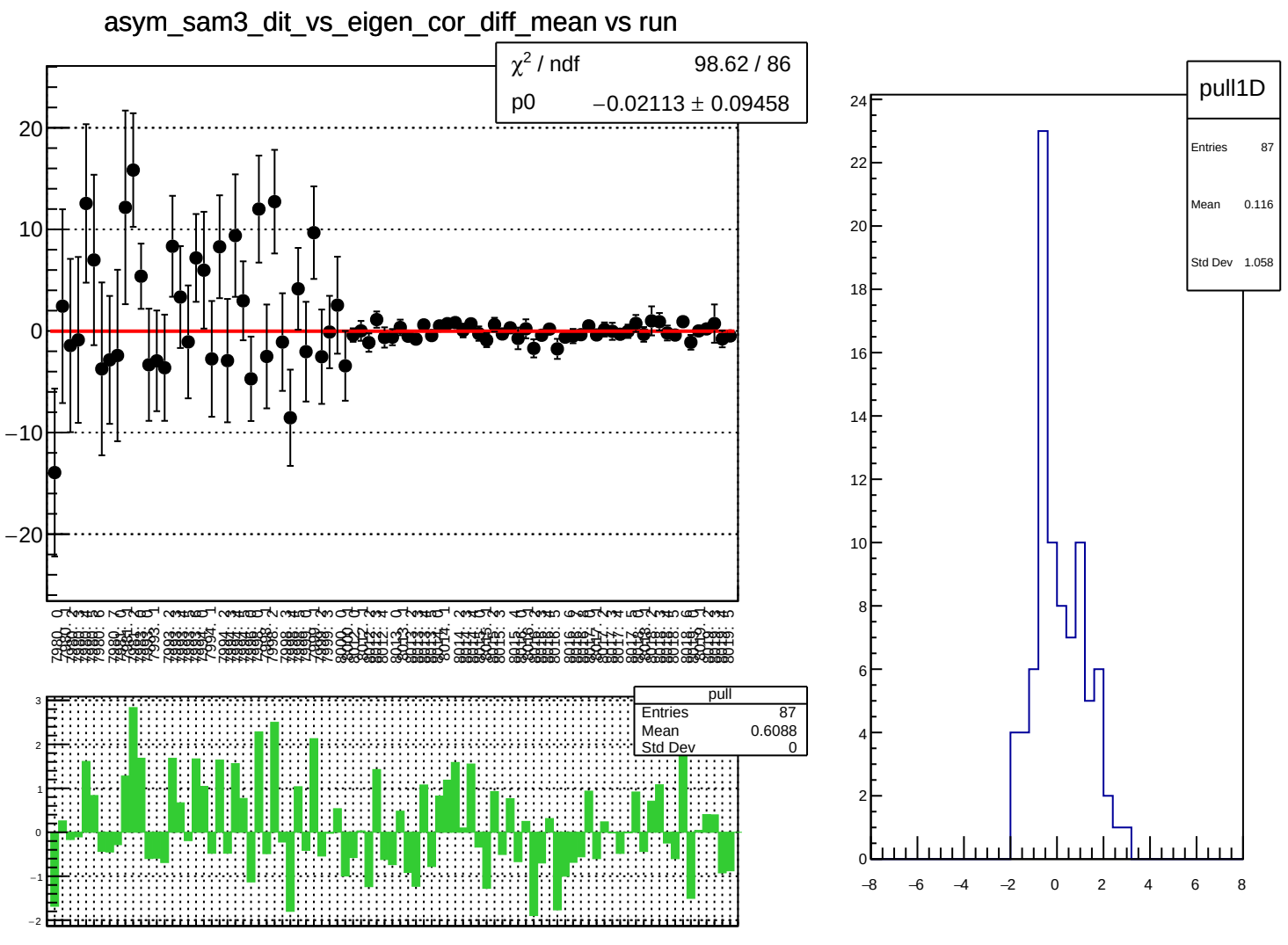

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 110.1 / 86
p0 5.697e−14 ± 2.677e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 87
Mean −330.1
Std Dev 0
2
1
0
−1
−2

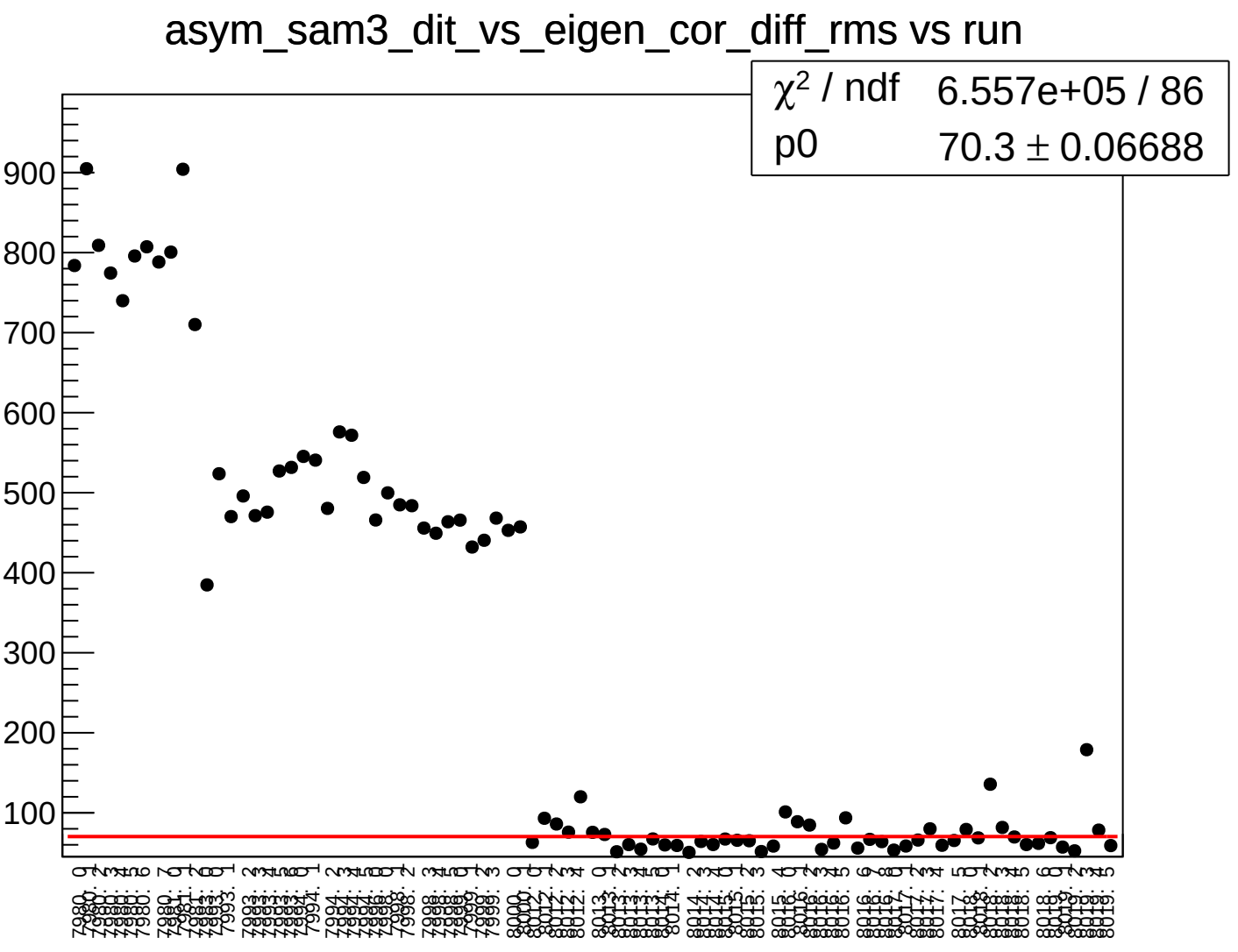

pull1D
Entries 87
Mean 0.01509
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

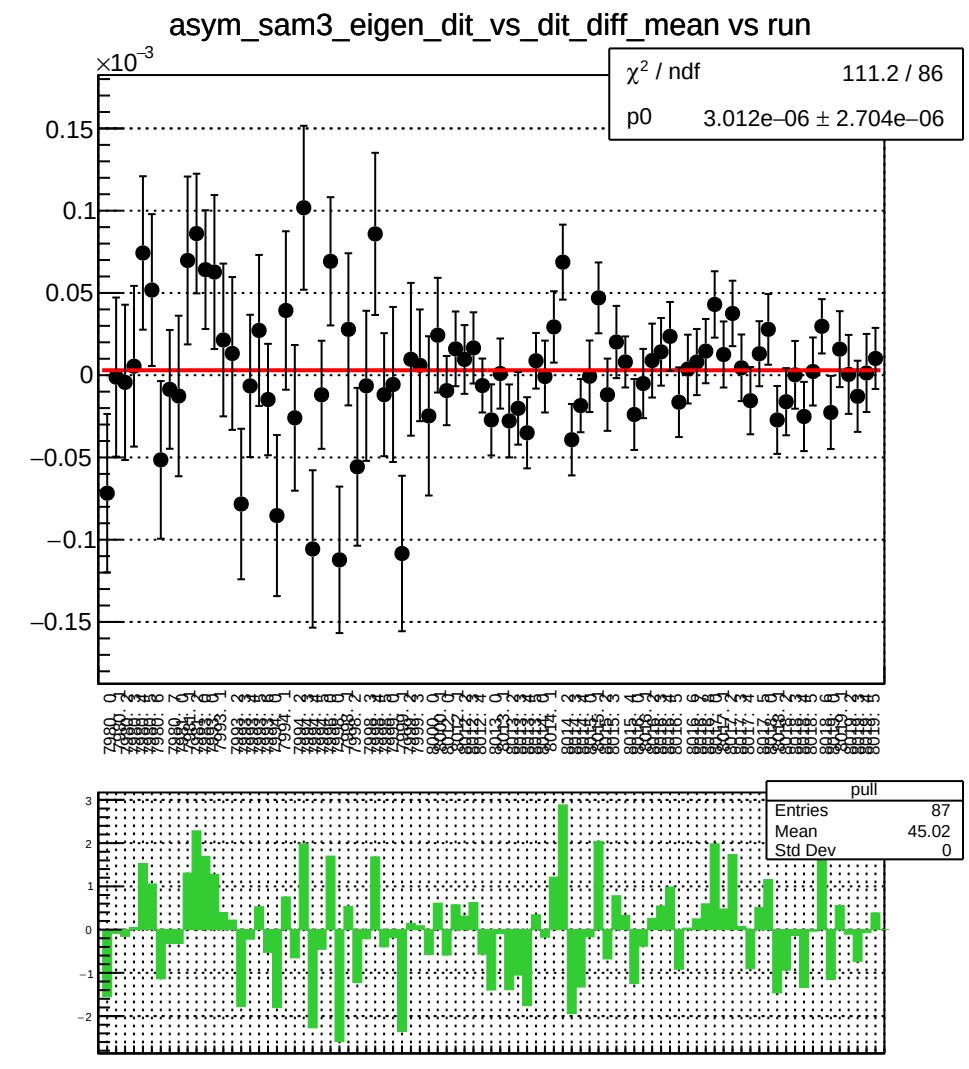

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.209e+06 / 86
p0 1.406e−10 ± 1.893e−13
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

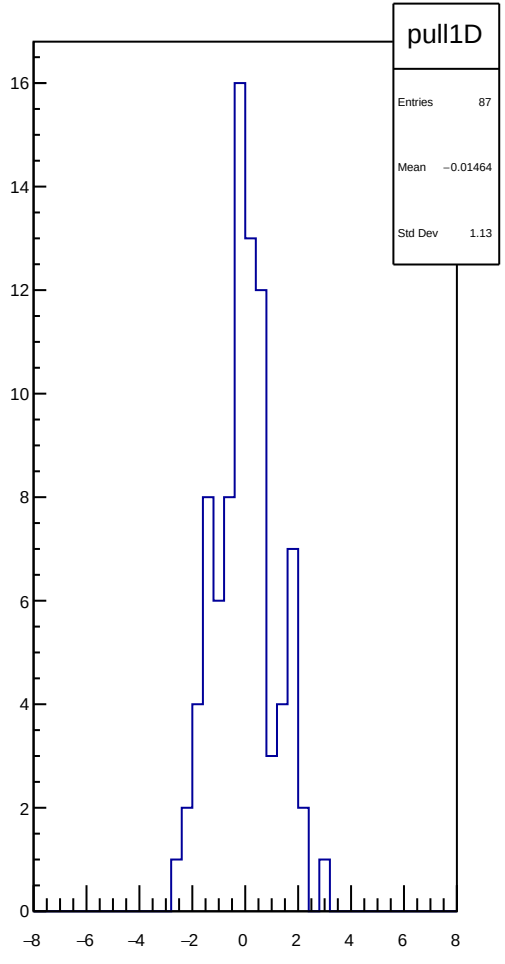

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 98.62 / 86
p0 −0.02113 ± 0.09458
pull
Entries 87
Mean 0.6088
Std Dev 0
pull1D
Entries 87
Mean 0.116
Std Dev 1.058

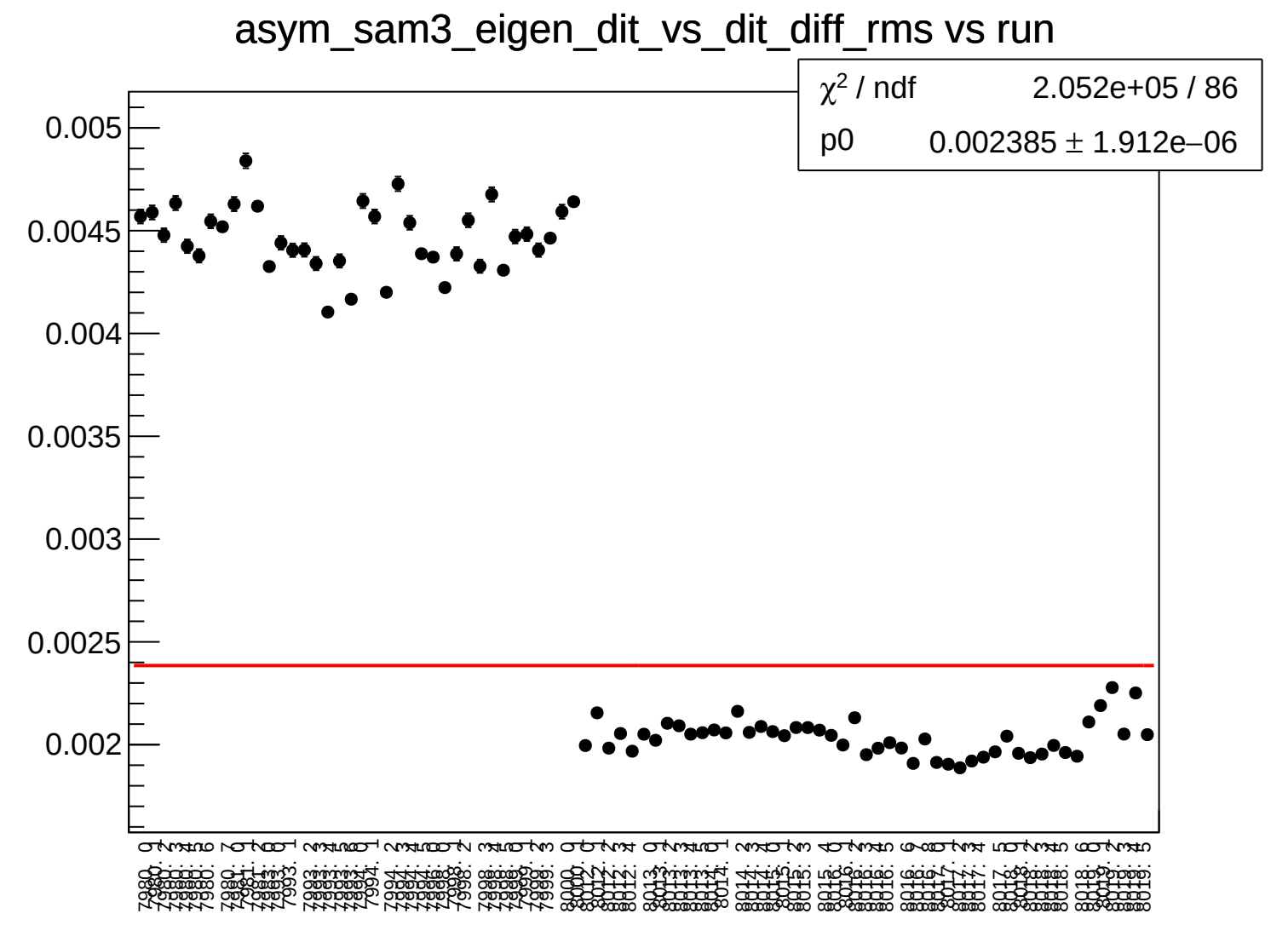

asym_sam3_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.557e+05 / 86
p0 70.3 ± 0.06688
900
800
700
600
500
400
300
200
100

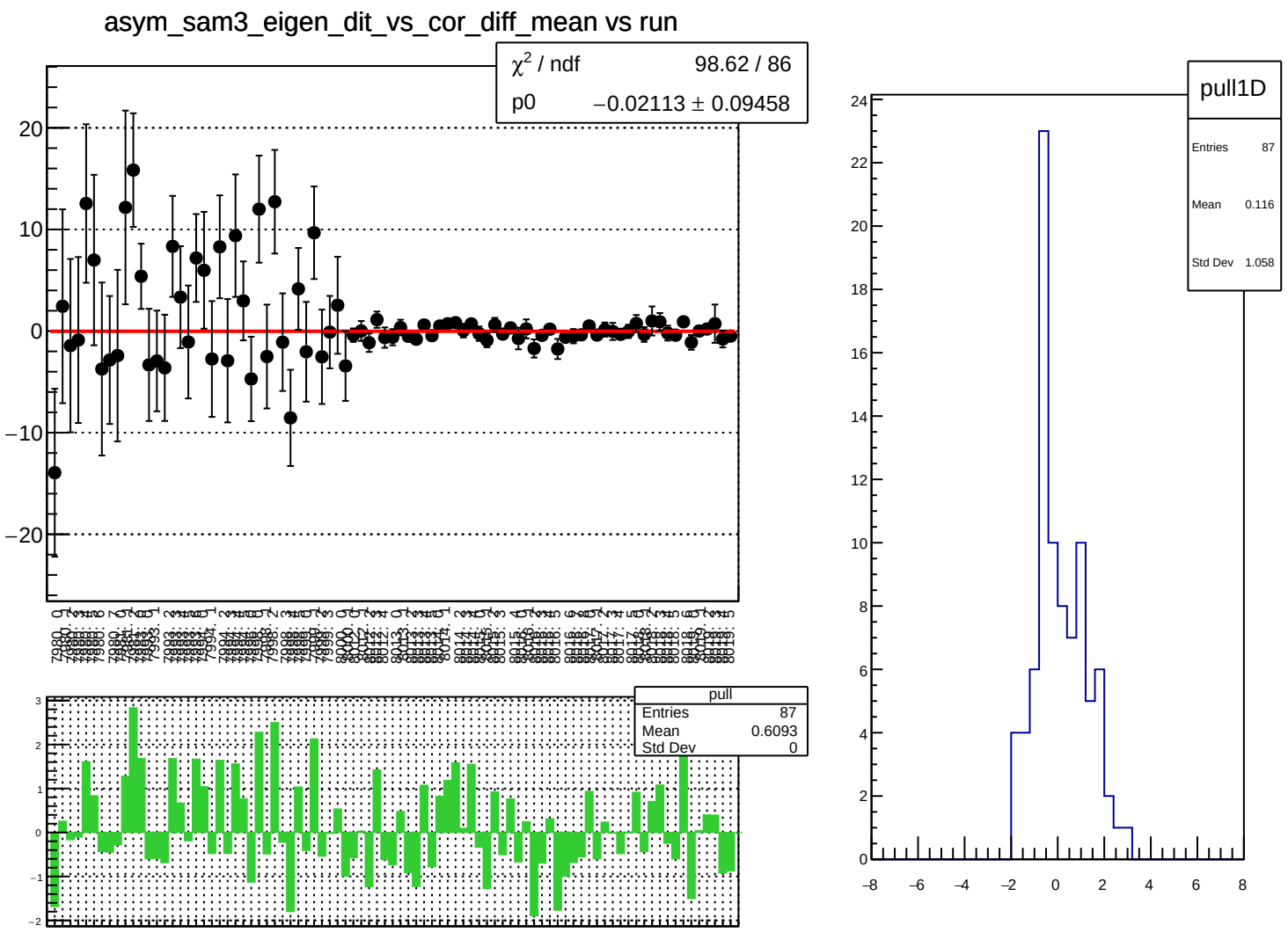

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.62 / 86
p0 −0.02113 ± 0.09458
pull
Entries 87
Mean 0.6088
Std Dev 0
pull1D
Entries 87
Mean 0.116
Std Dev 1.058

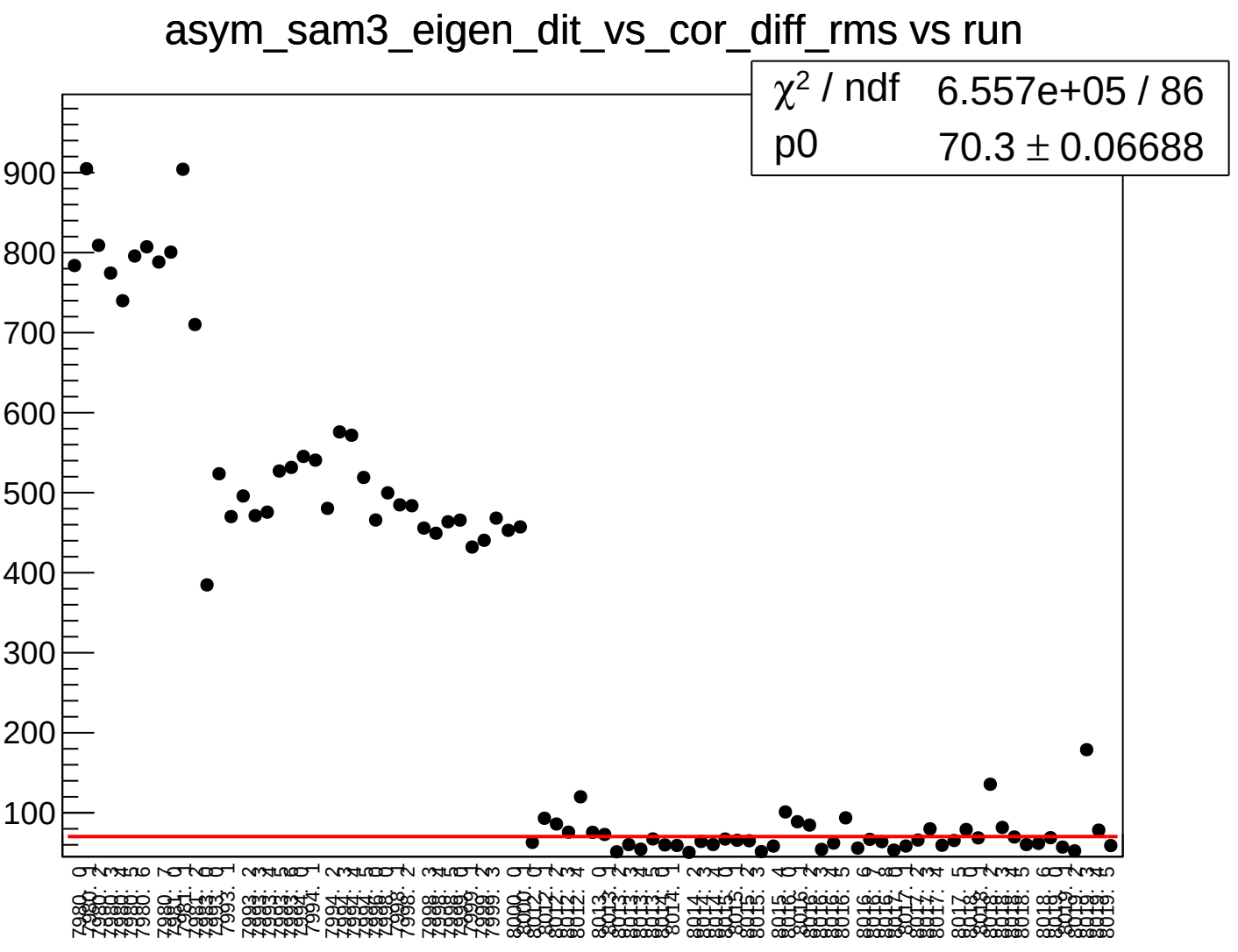

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.557e+05 / 86
p0 70.3 ± 0.06688
900
800
700
600
500
400
300
200
100

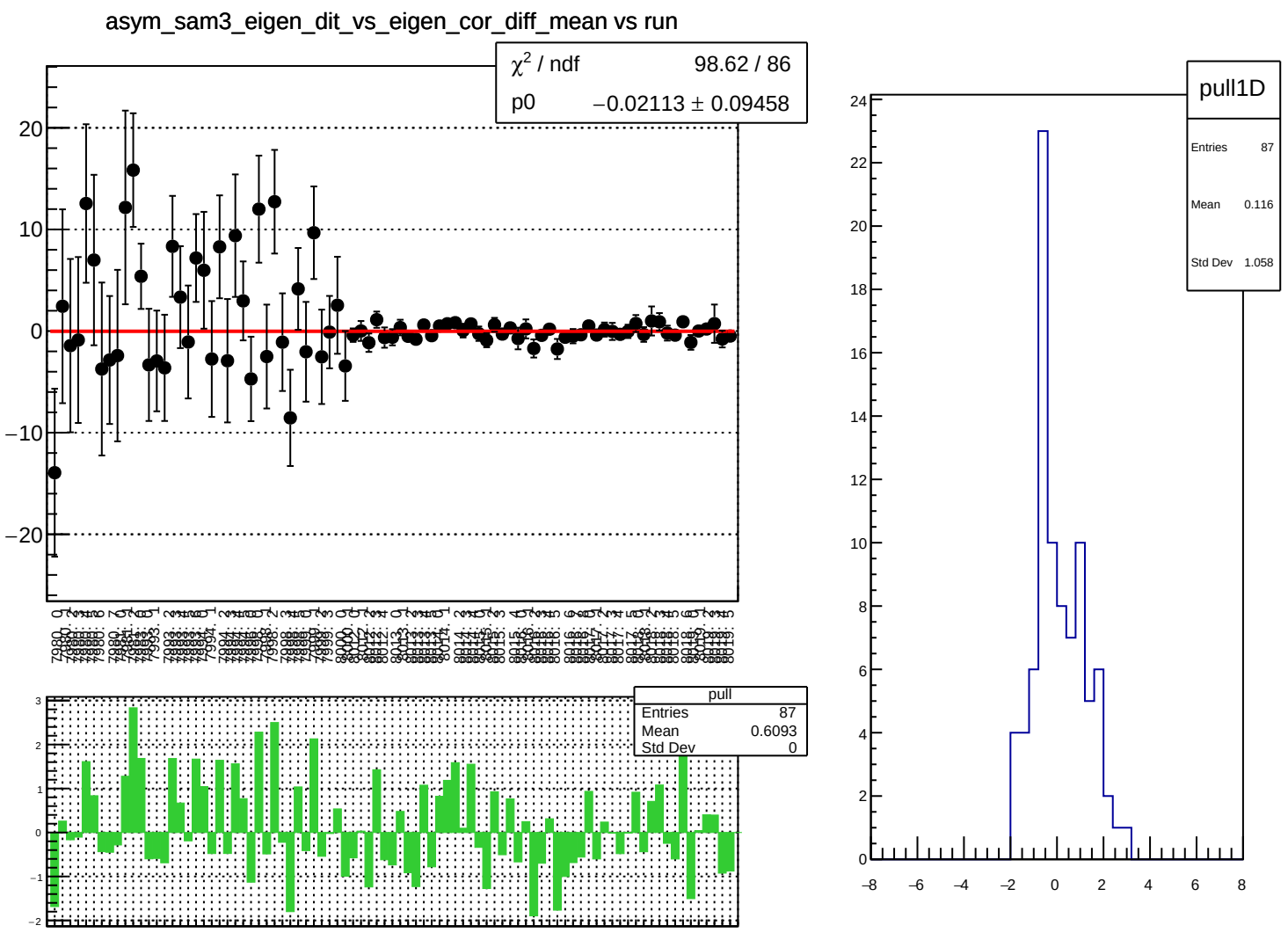

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.2 / 86
p0 3.012e−06 ± 2.704e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean 45.02
Std Dev 0
3
2
1
0
−1
−2

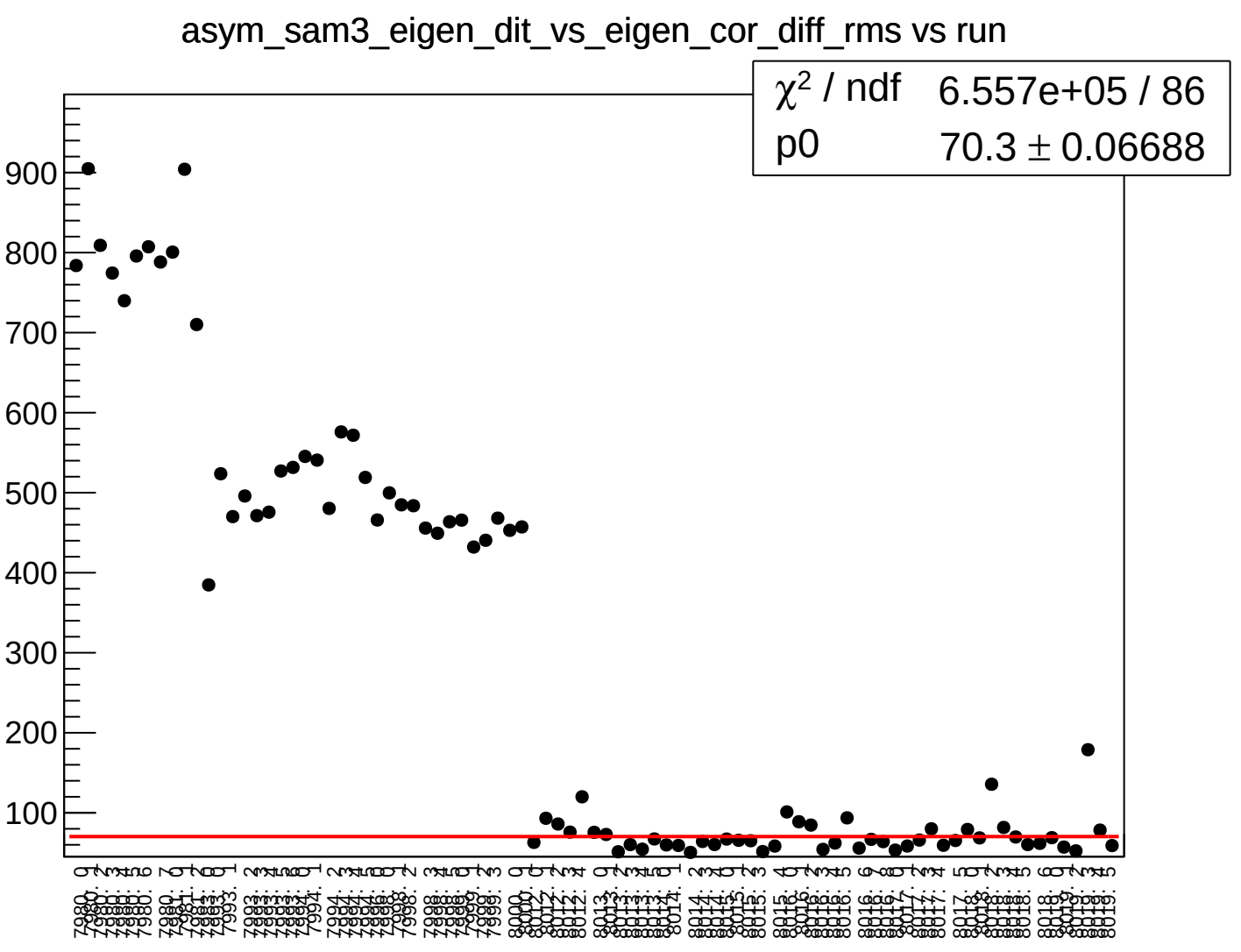

pull1D
Entries 87
Mean −0.01464
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

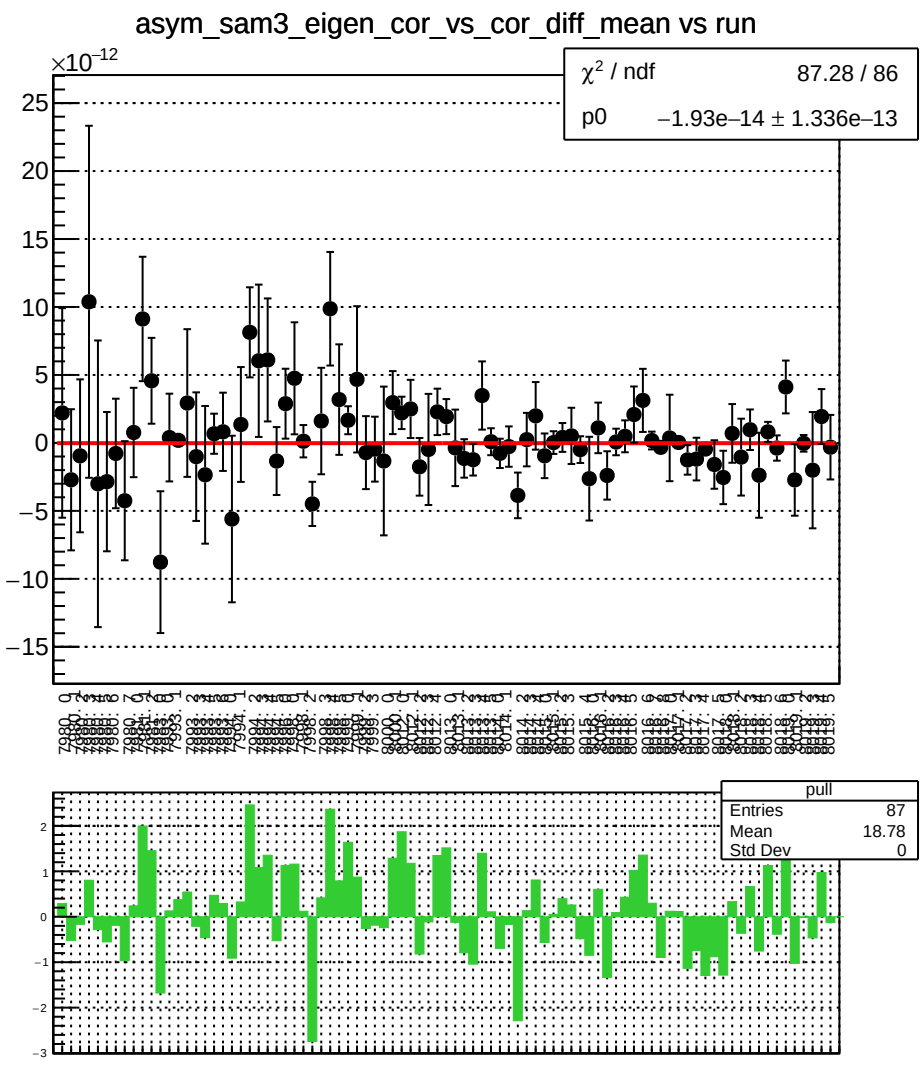

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.052e+05 / 86
p0 0.002385 ± 1.912e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

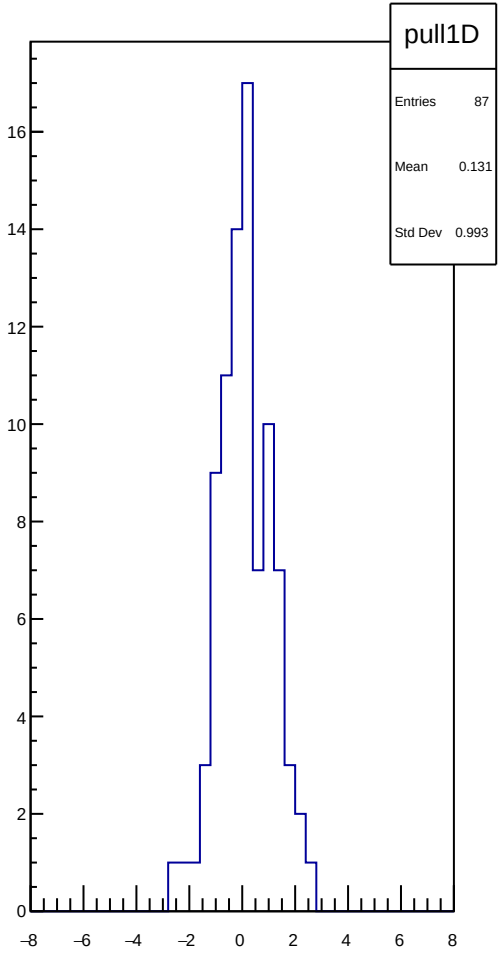

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.62 / 86
p0 −0.02113 ± 0.09458
pull
Entries 87
Mean 0.6093
Std Dev 0
pull1D
Entries 87
Mean 0.116
Std Dev 1.058

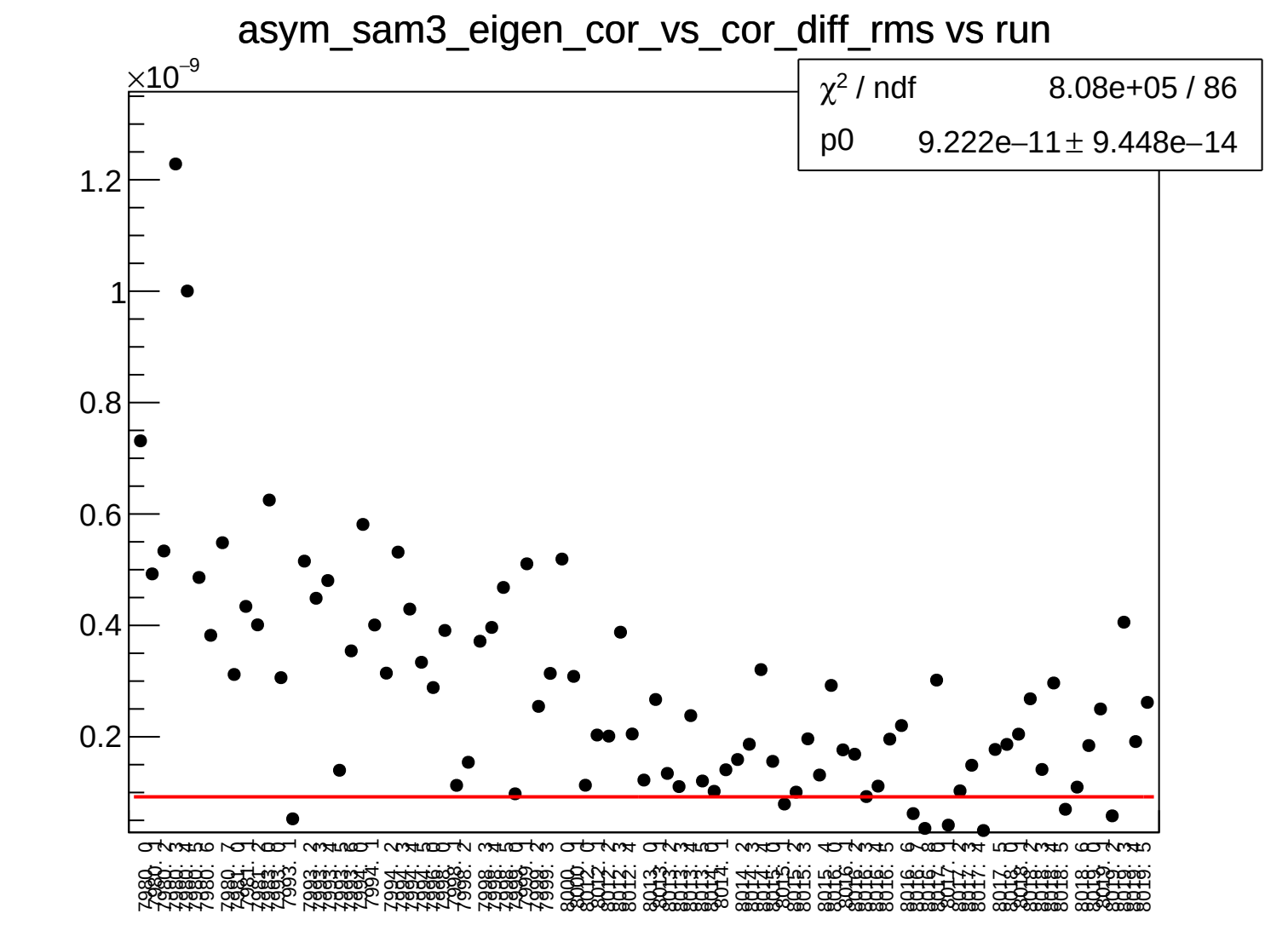

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.557e+05 / 86
p0 70.3 ± 0.06688
900
800
700
600
500
400
300
200
100

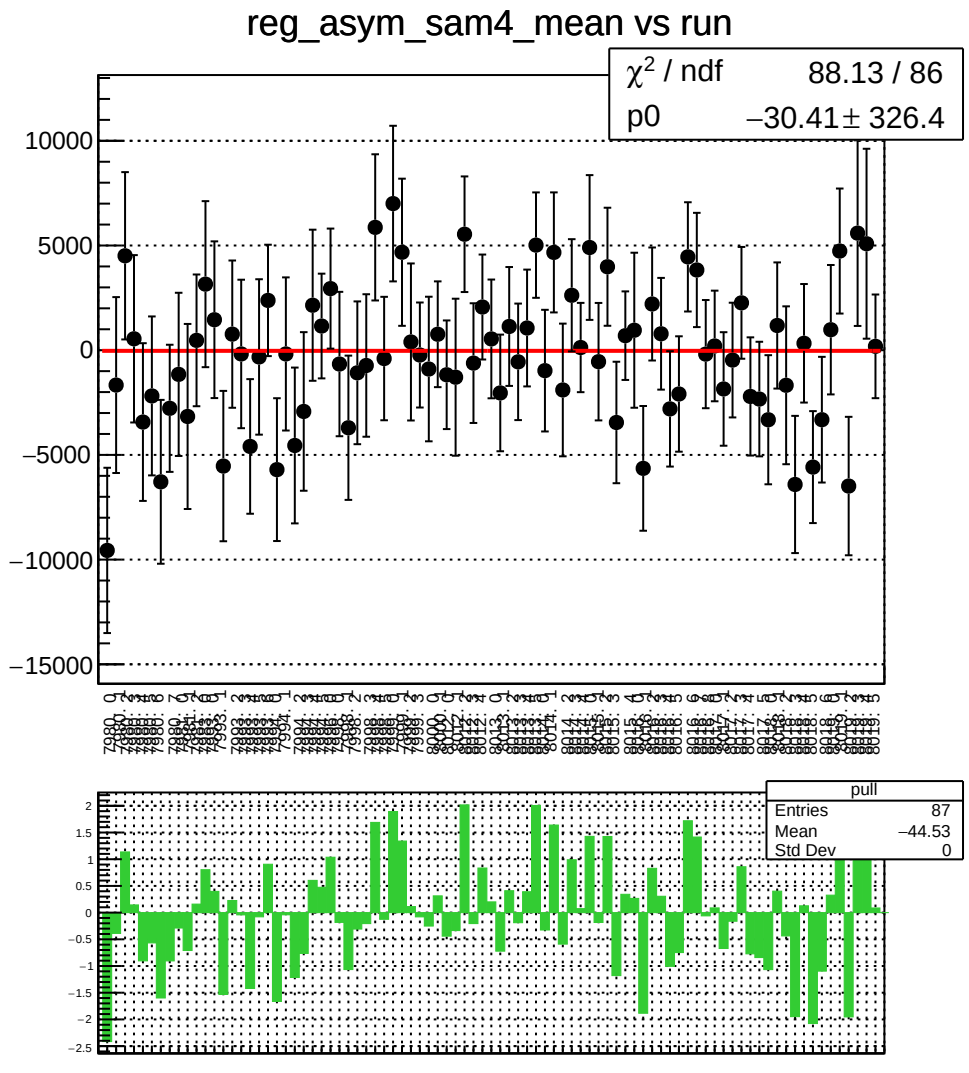

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.62 / 86
p0 −0.02113 ± 0.09458
pull
Entries 87
Mean 0.6093
Std Dev 0
pull1D
Entries 87
Mean 0.116
Std Dev 1.058

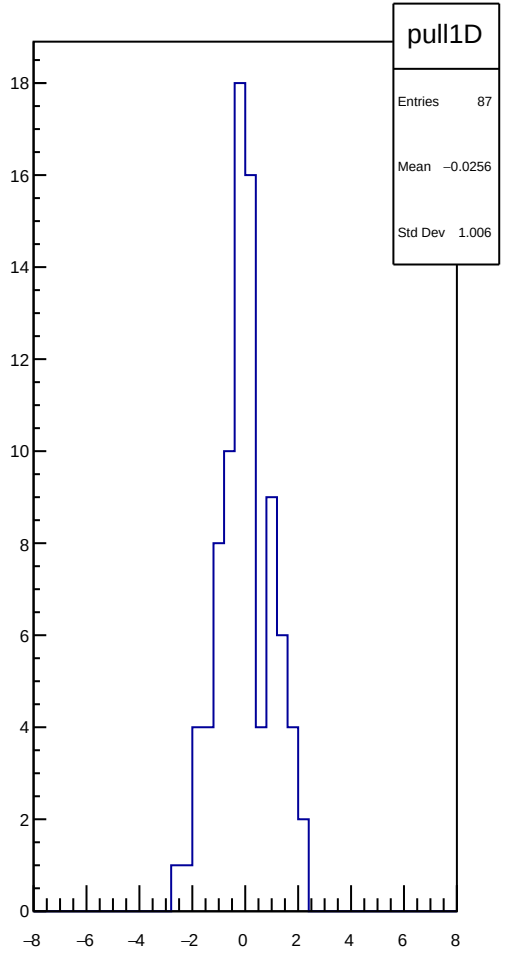

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.557e+05 / 86
p0 70.3 ± 0.06688
900
800
700
600
500
400
300
200
100

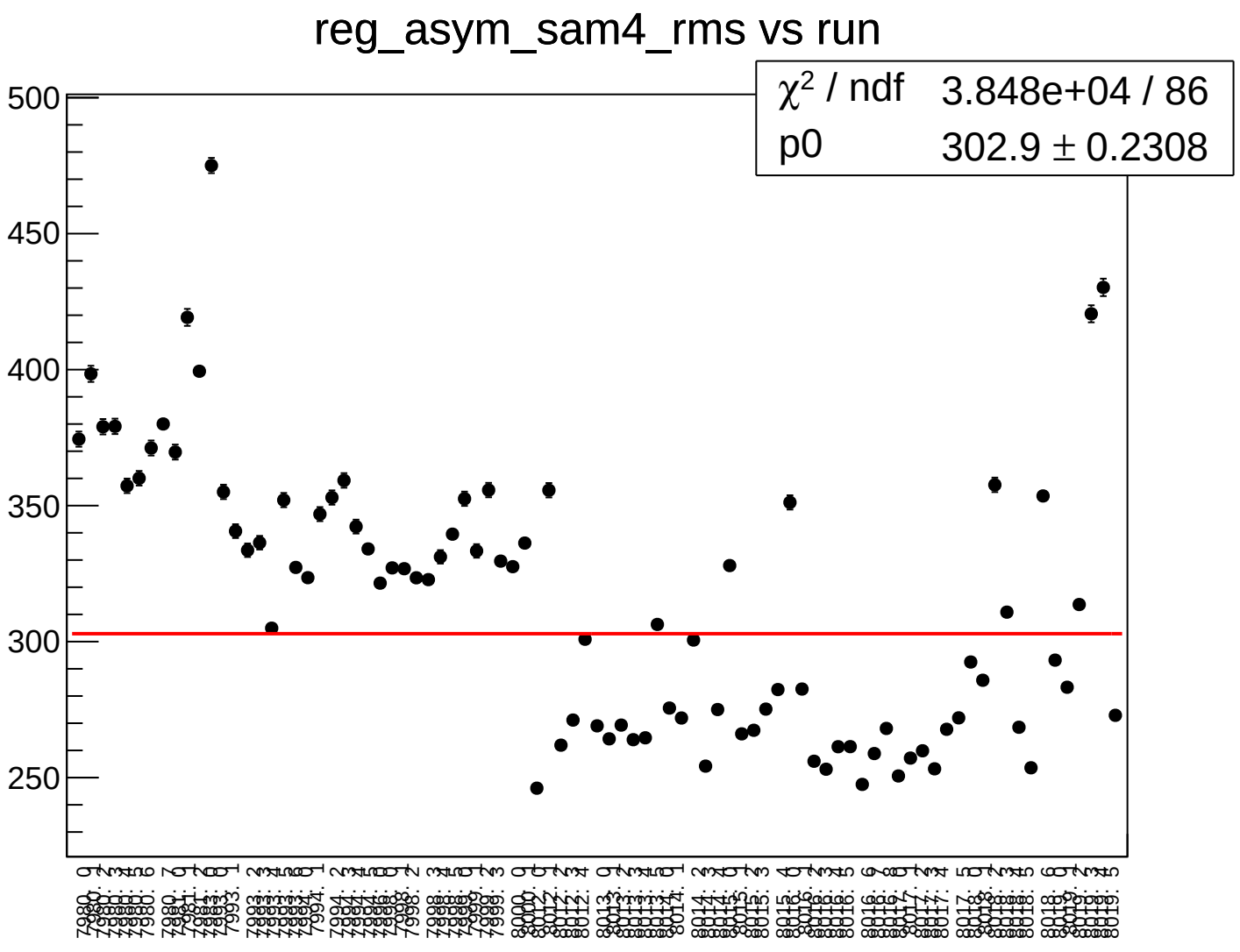

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.28 / 86
p0 −1.93e−14 ± 1.336e−13
25
20
15
10
5
0
−5
−10
−15
pull
Entries 87
Mean 18.78
Std Dev 0
2
1
0
−1
−2
−3

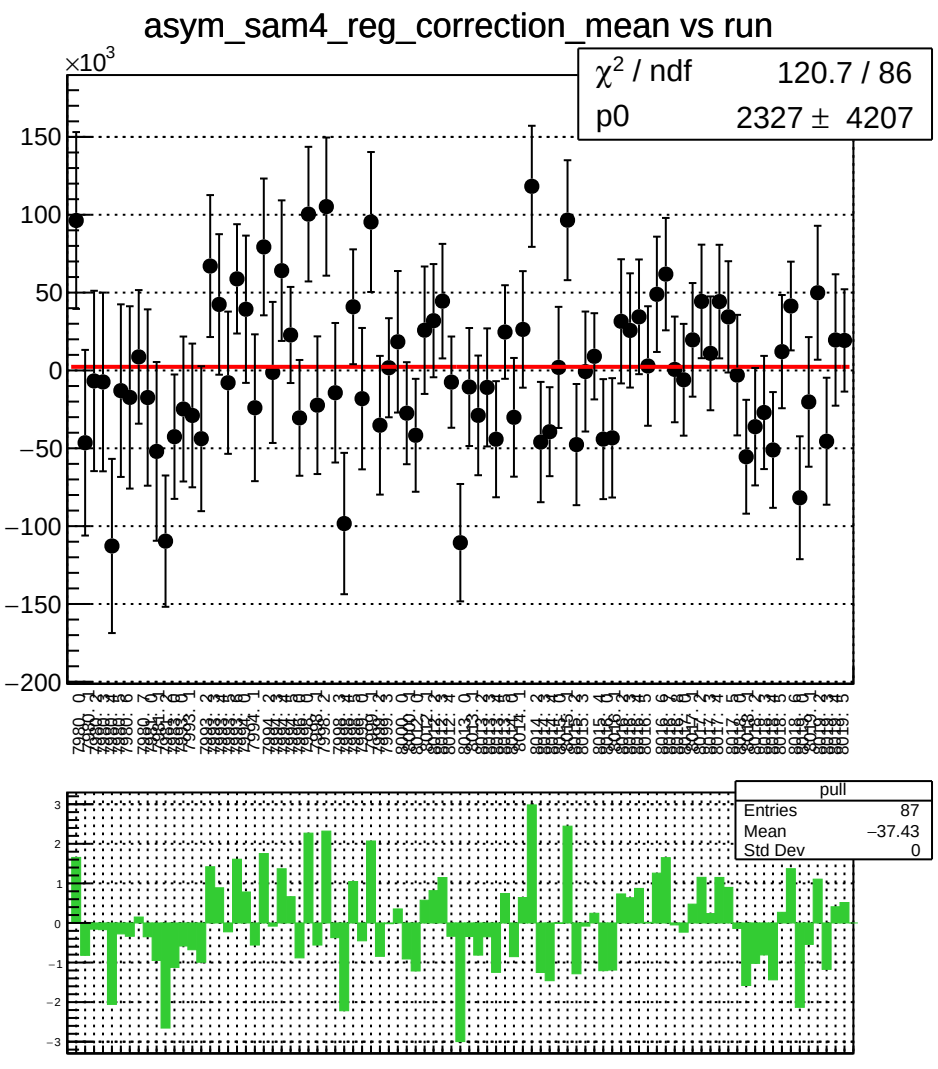

pull1D
Entries 87
Mean 0.131
Std Dev 0.993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

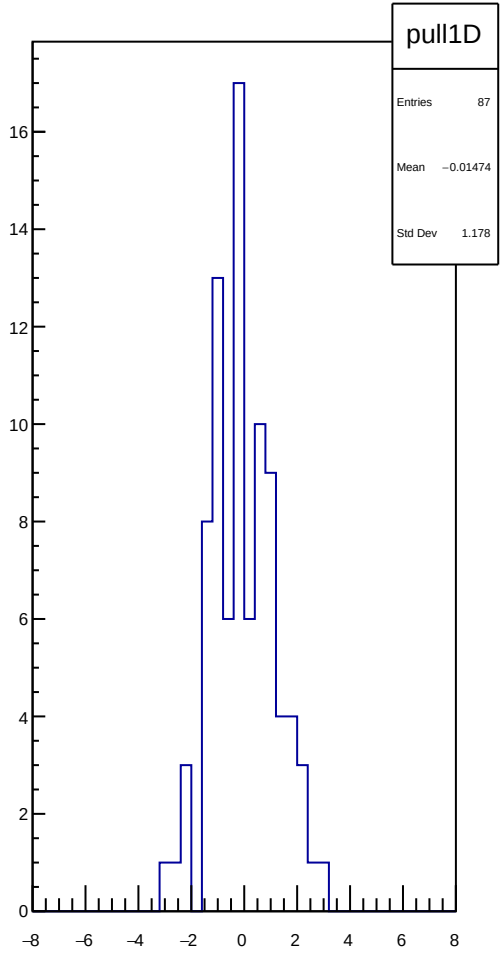

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.08e+05 / 86
p0 9.222e−11 ± 9.448e−14
1.2
1
0.8
0.6
0.4
0.2

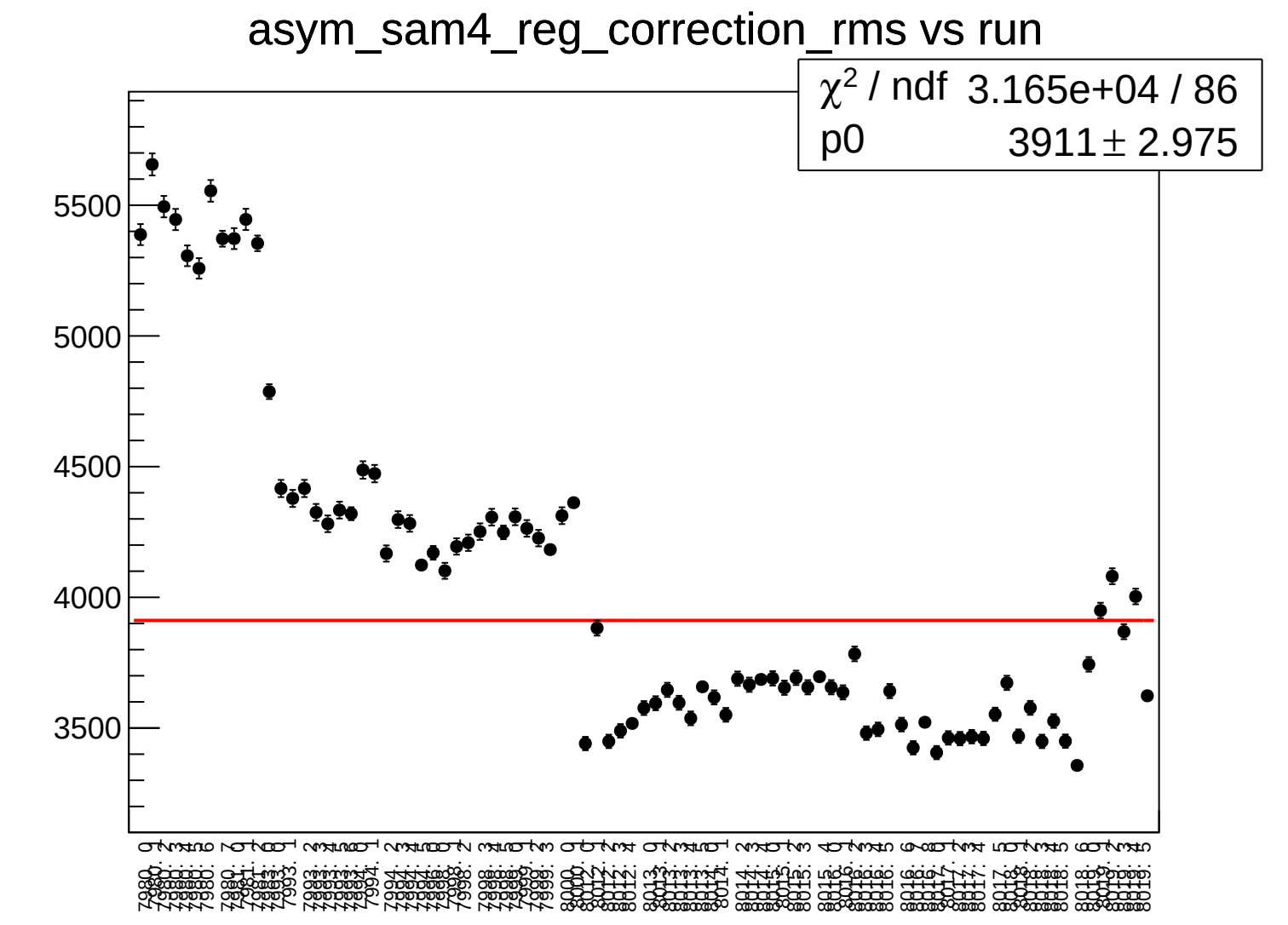

reg_asym_sam4_mean vs run
χ² / ndf 88.13 / 86
p0 −30.41 ± 326.4
pull
Entries 87
Mean −44.53
Std Dev 0

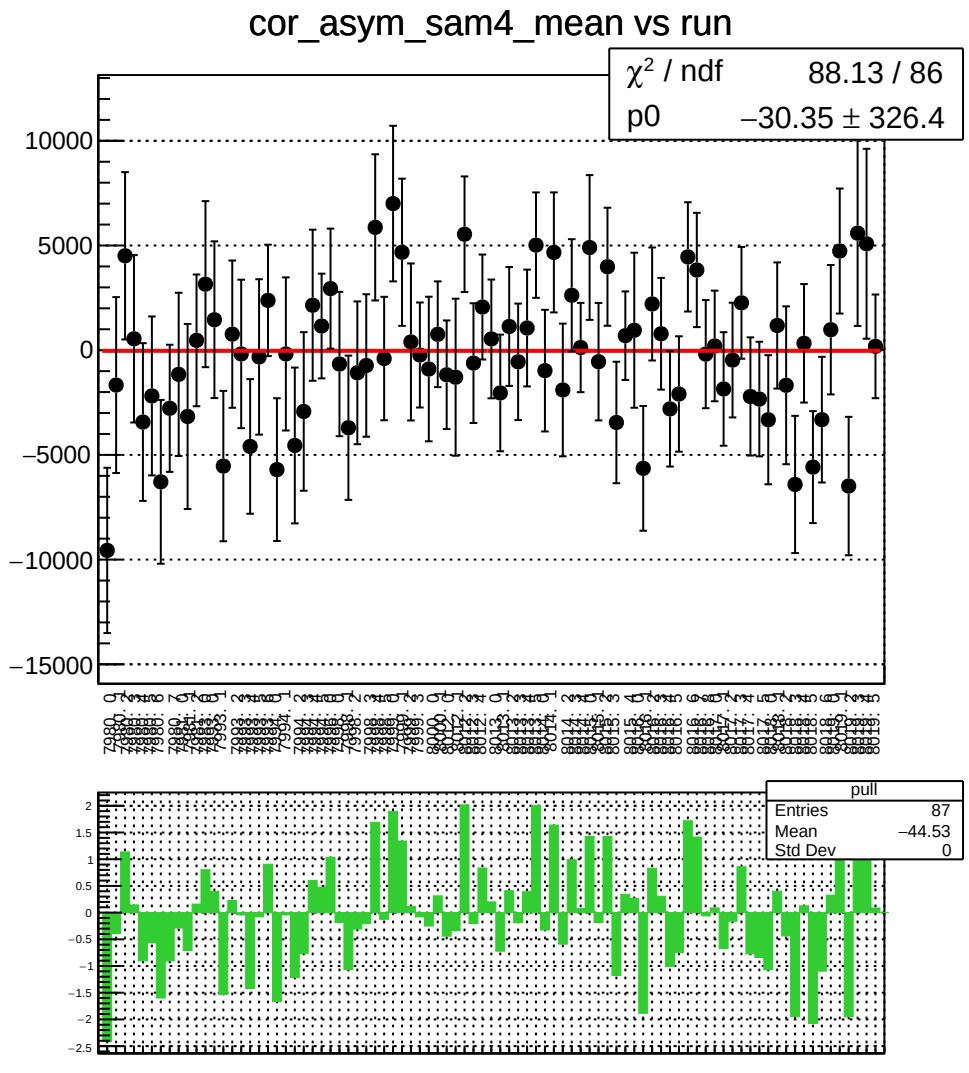

pull1D
Entries 87
Mean −0.0256
Std Dev 1.006

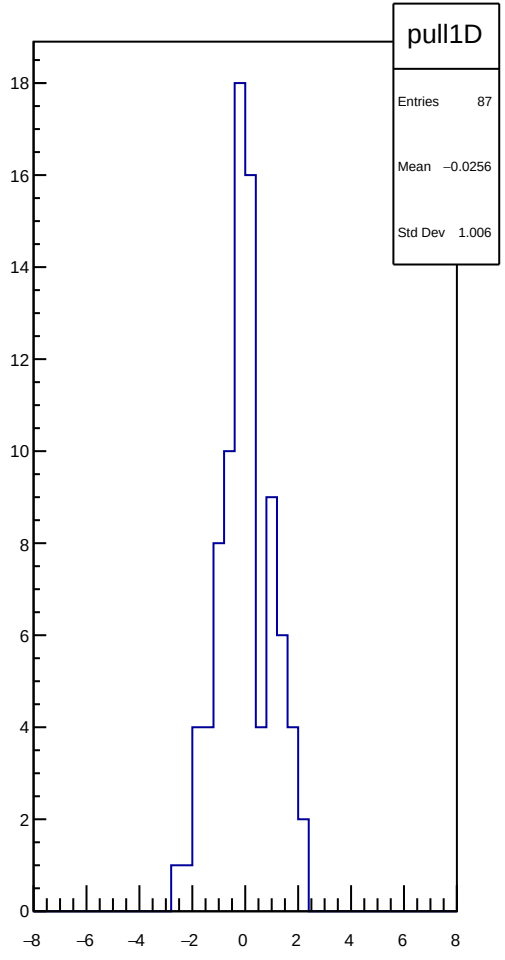

reg_asym_sam4_rms vs run
χ² / ndf 3.848e+04 / 86
p0 302.9 ± 0.2308
500
450
400
350
300
250

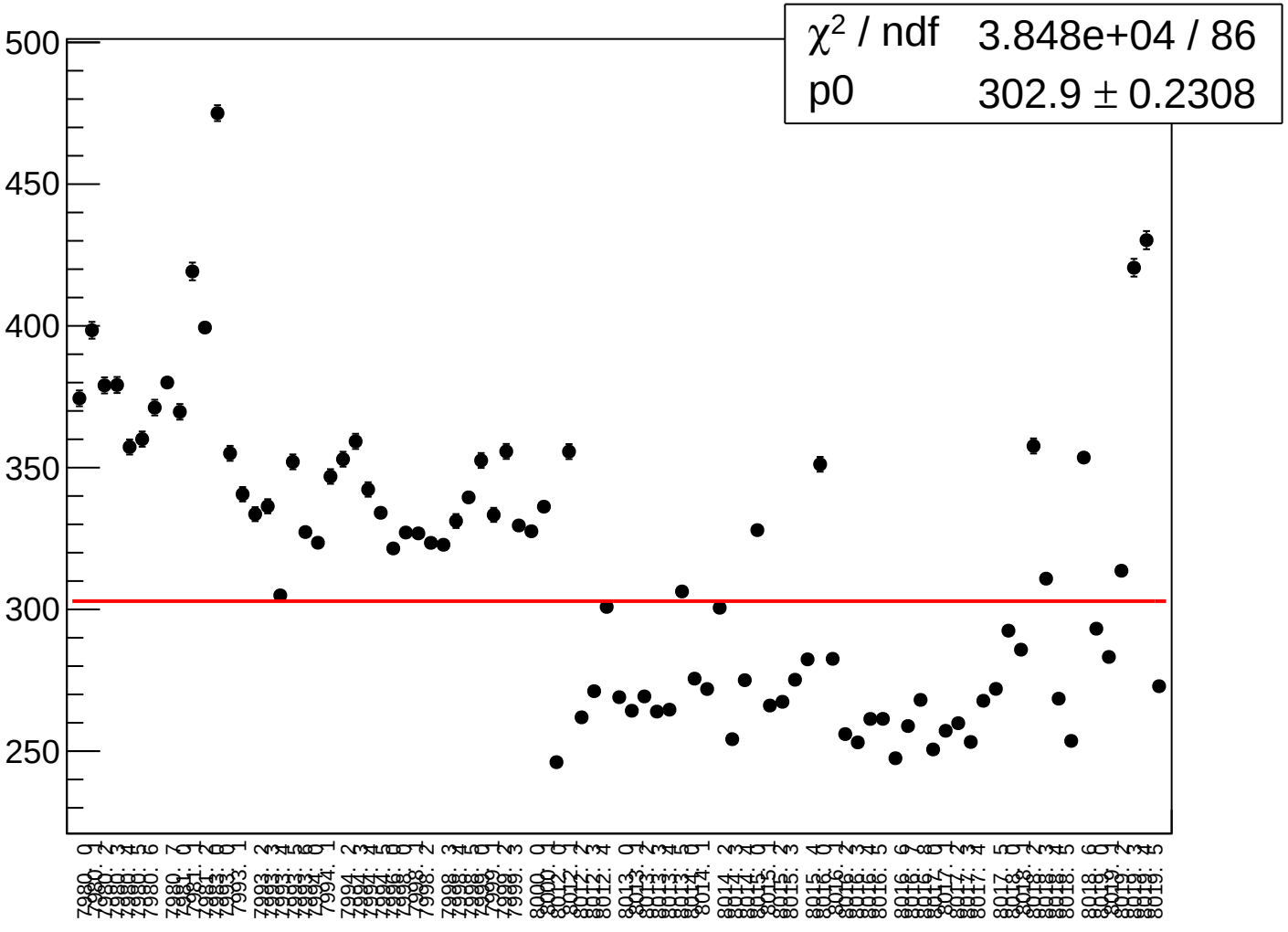

asym_sam4_reg_correction_mean vs run
χ² / ndf 120.7 / 86
p0 2327 ± 4207
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −37.43
Std Dev 0
3
2
1
0
−1
−2
−3

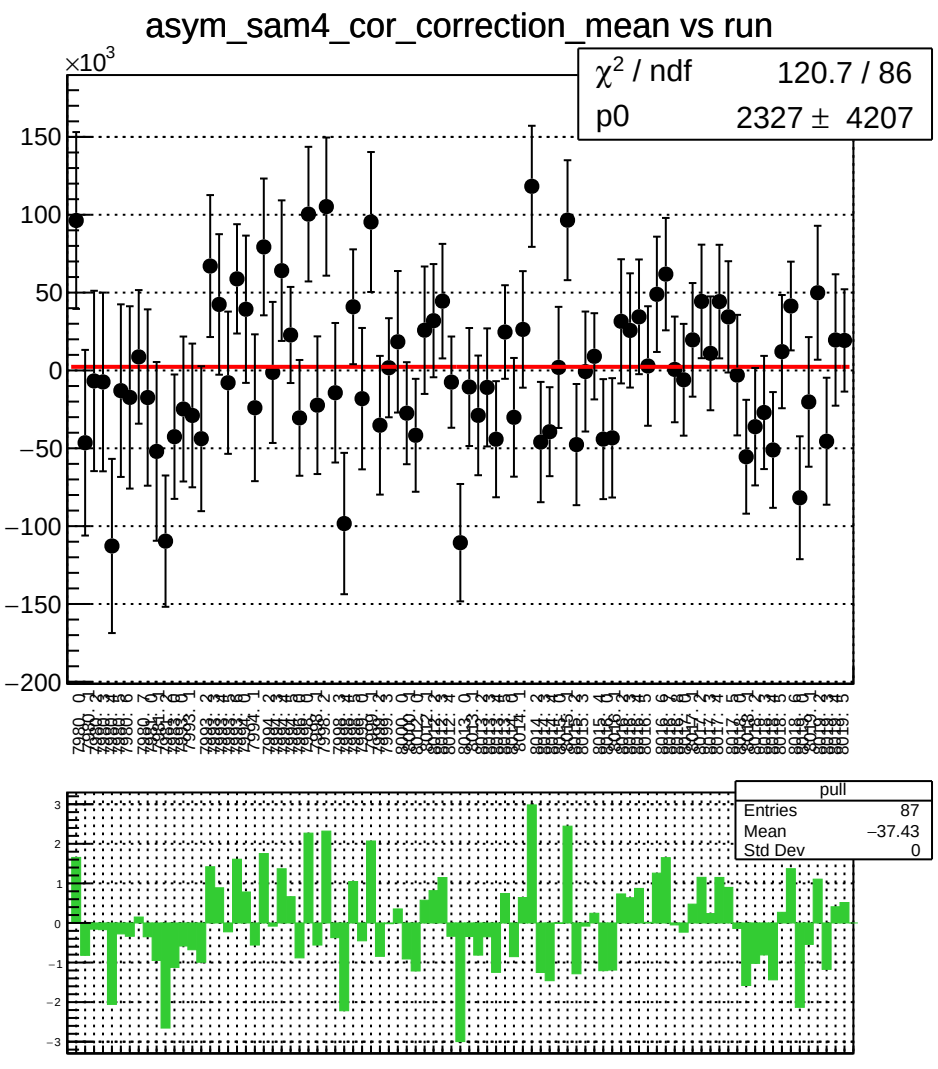

pull1D
Entries 87
Mean −0.01474
Std Dev 1.178
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

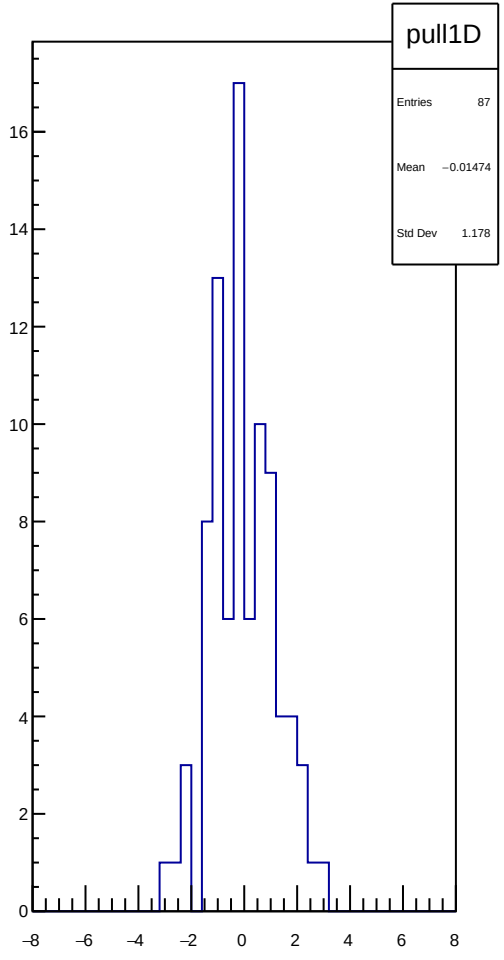

asym_sam4_reg_correction_rms vs run
χ² / ndf 3.165e+04 / 86
p0 3911 ± 2.975
5500
5000
4500
4000
3500

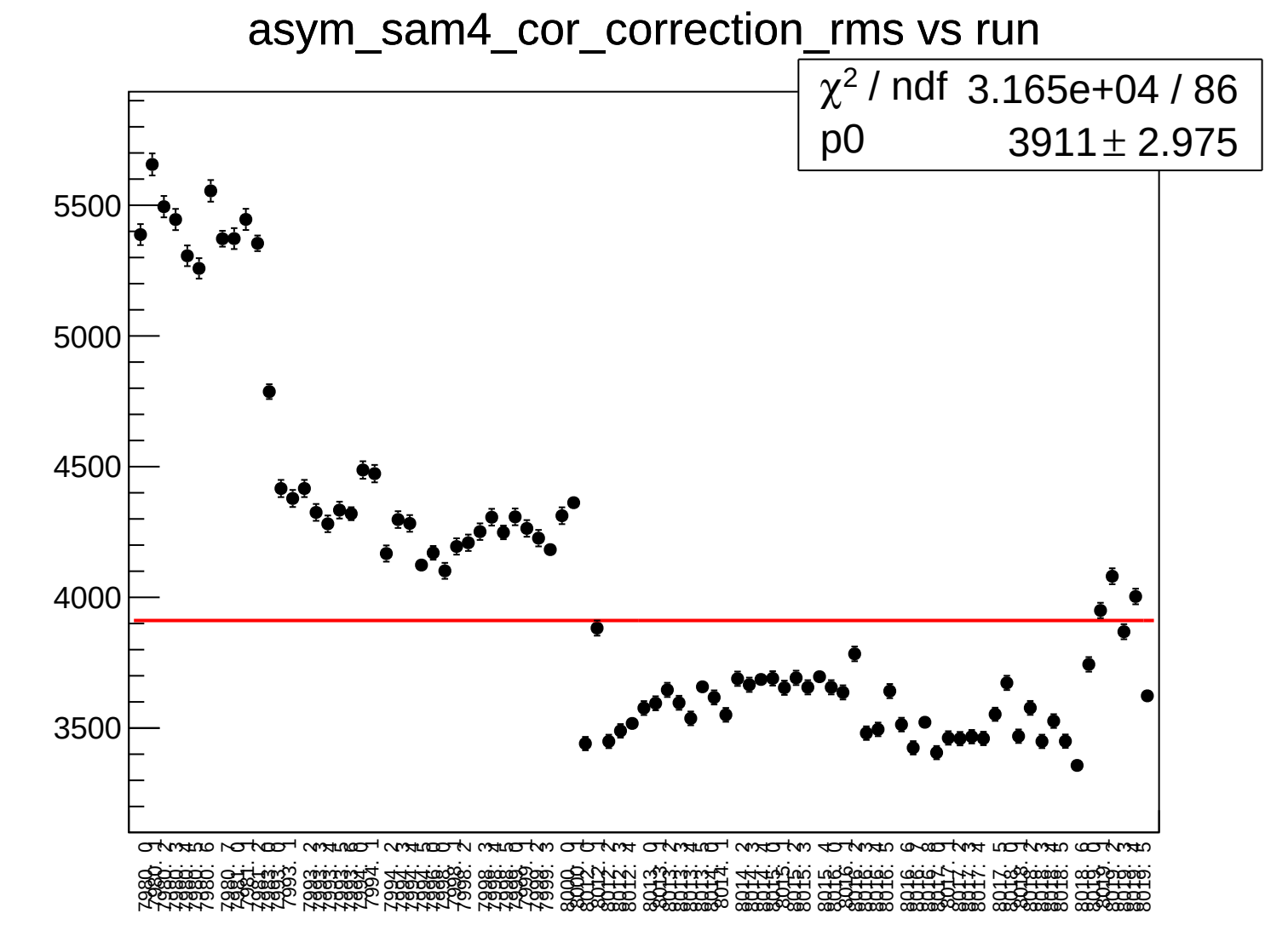

cor_asym_sam4_mean vs run
χ² / ndf 88.13 / 86
p0 −30.35 ± 326.4
pull
Entries 87
Mean −44.53
Std Dev 0

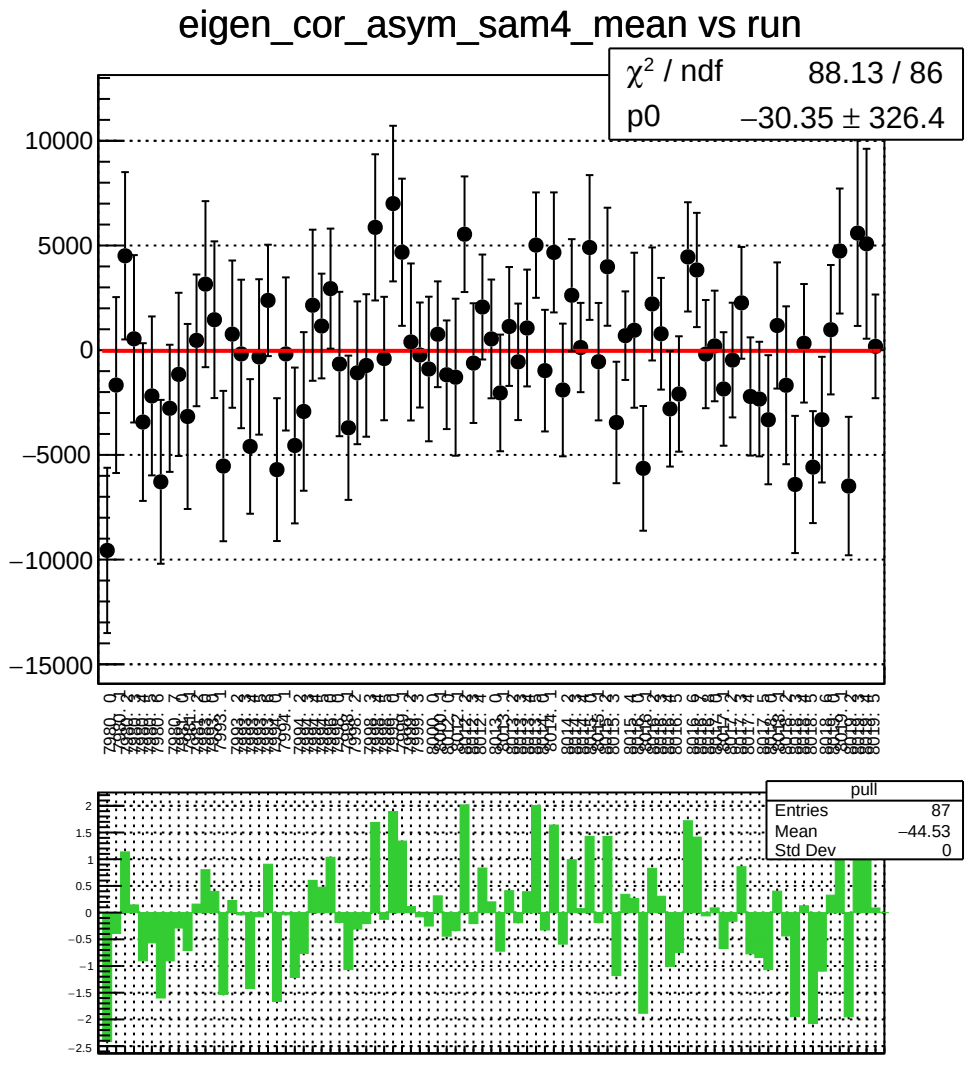

pull1D
Entries 87
Mean −0.0256
Std Dev 1.006

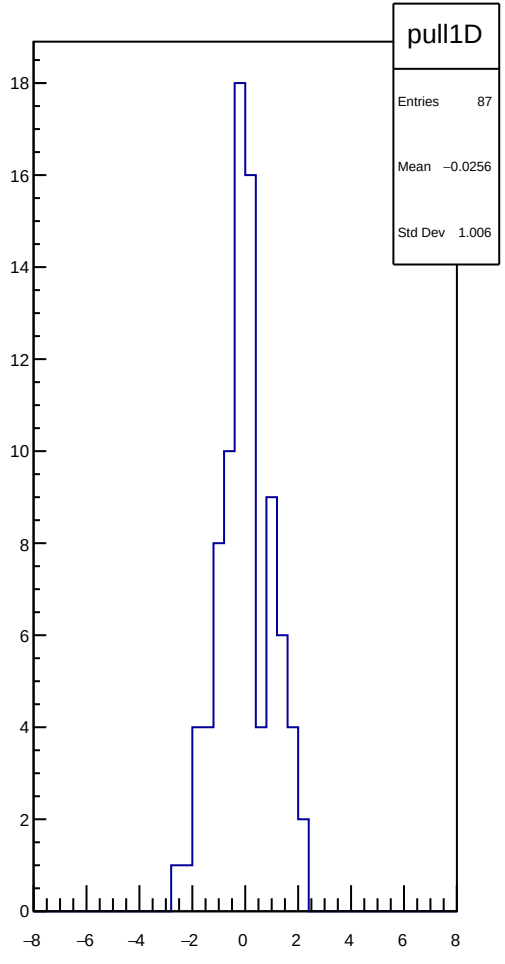

cor_asym_sam4_rms vs run
χ² / ndf 3.848e+04 / 86
p0 302.9 ± 0.2308
500
450
400
350
300
250

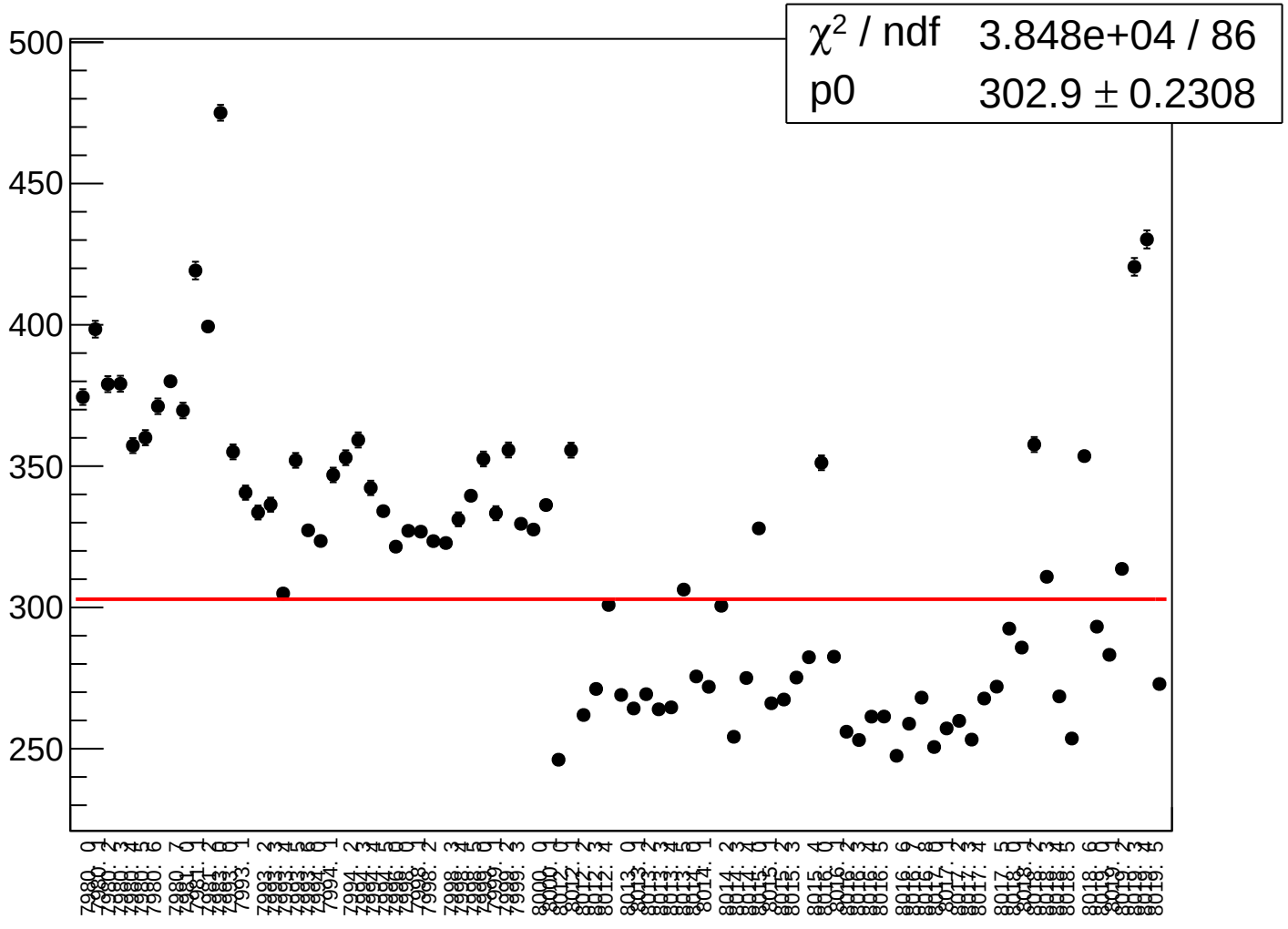

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 120.7 / 86
p0 2327 ± 4207
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −37.43
Std Dev 0
3
2
1
0
−1
−2
−3

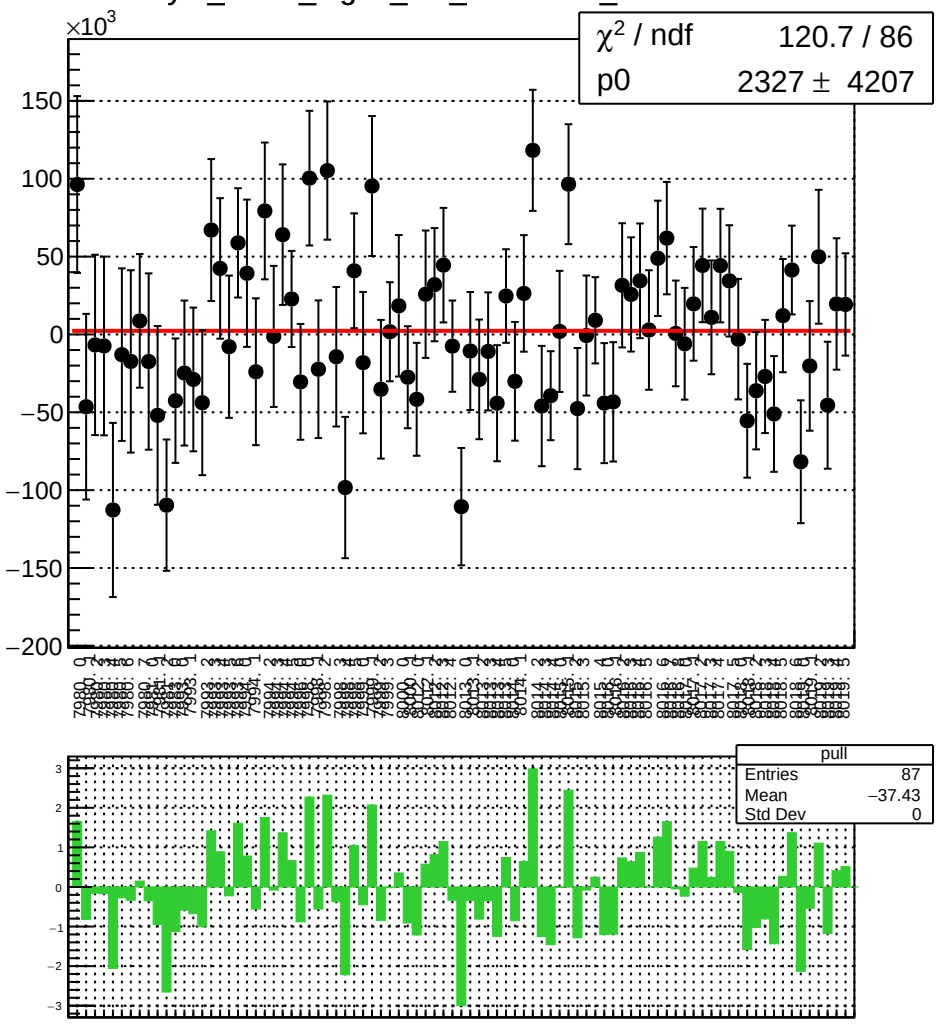

pull1D
Entries 87
Mean −0.01474
Std Dev 1.178
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

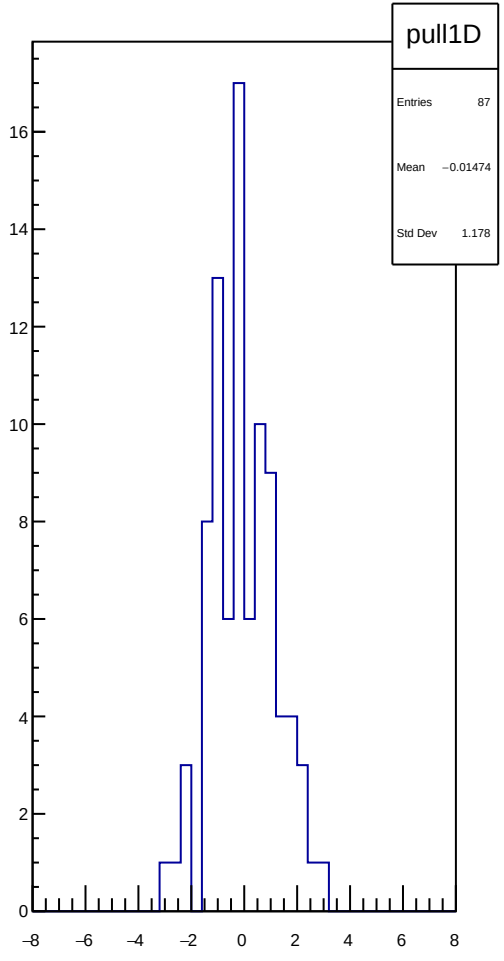

asym_sam4_cor_correction_rms vs run
χ² / ndf 3.165e+04 / 86
p0 3911 ± 2.975
5500
5000
4500
4000
3500

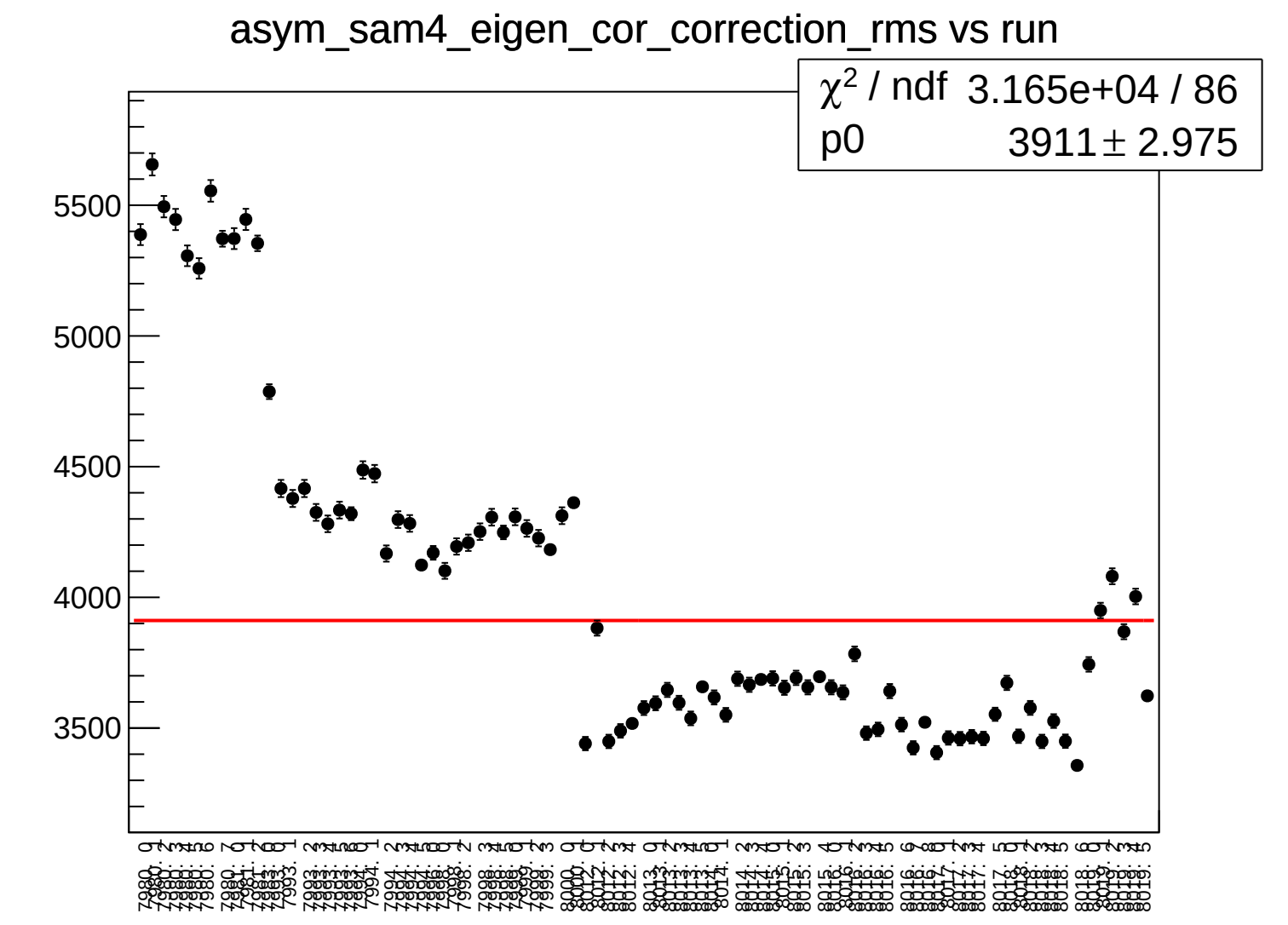

eigen_cor_asym_sam4_mean vs run
χ² / ndf 88.13 / 86
p0 −30.35 ± 326.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −44.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

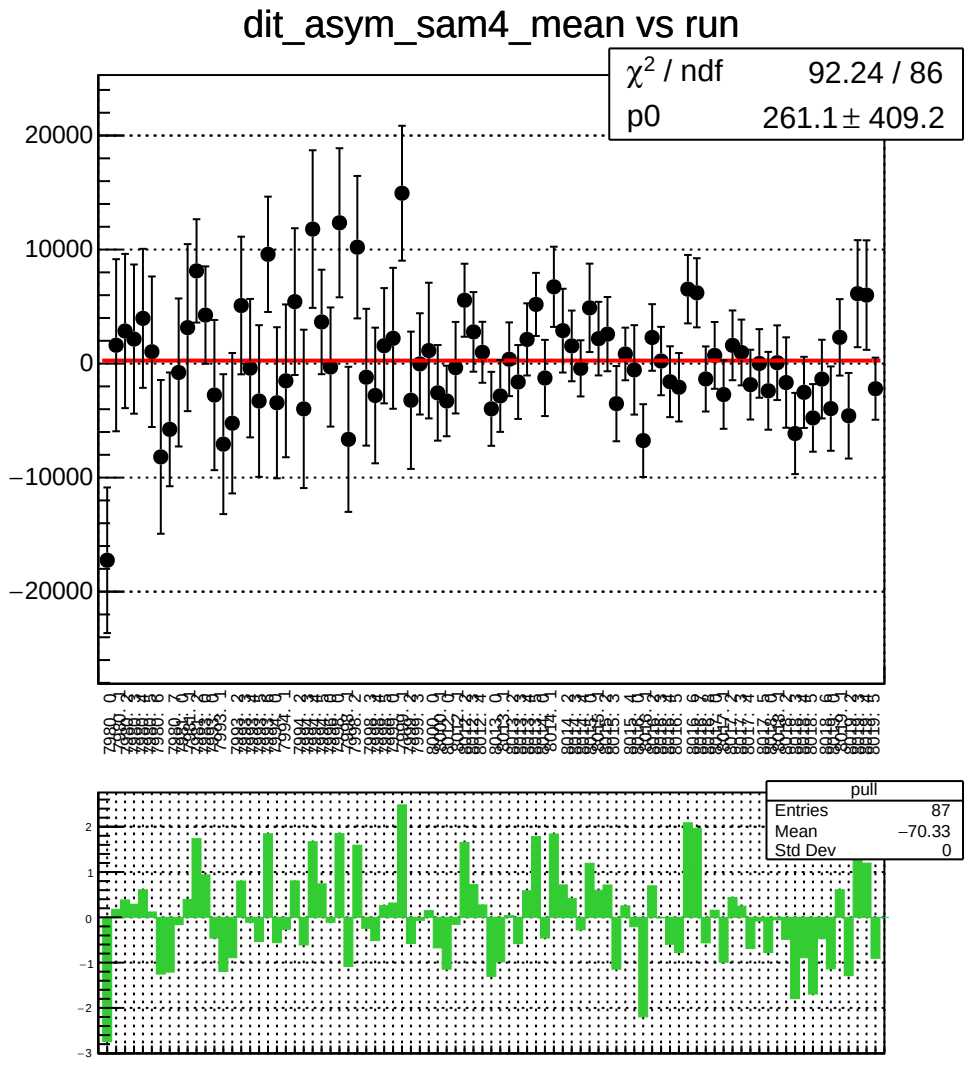

pull1D
Entries 87
Mean −0.0256
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

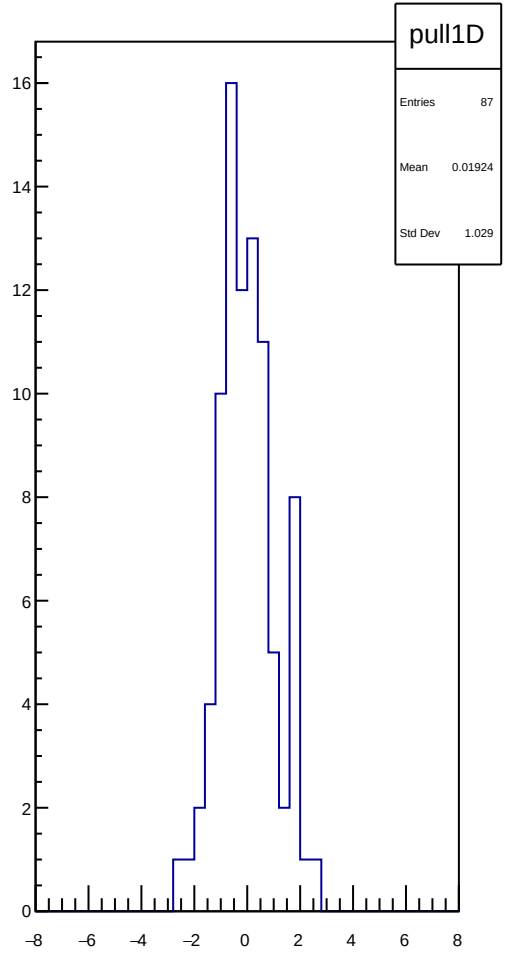

eigen_cor_asym_sam4_rms vs run
χ² / ndf 3.848e+04 / 86
p0 302.9 ± 0.2308
500
450
400
350
300
250

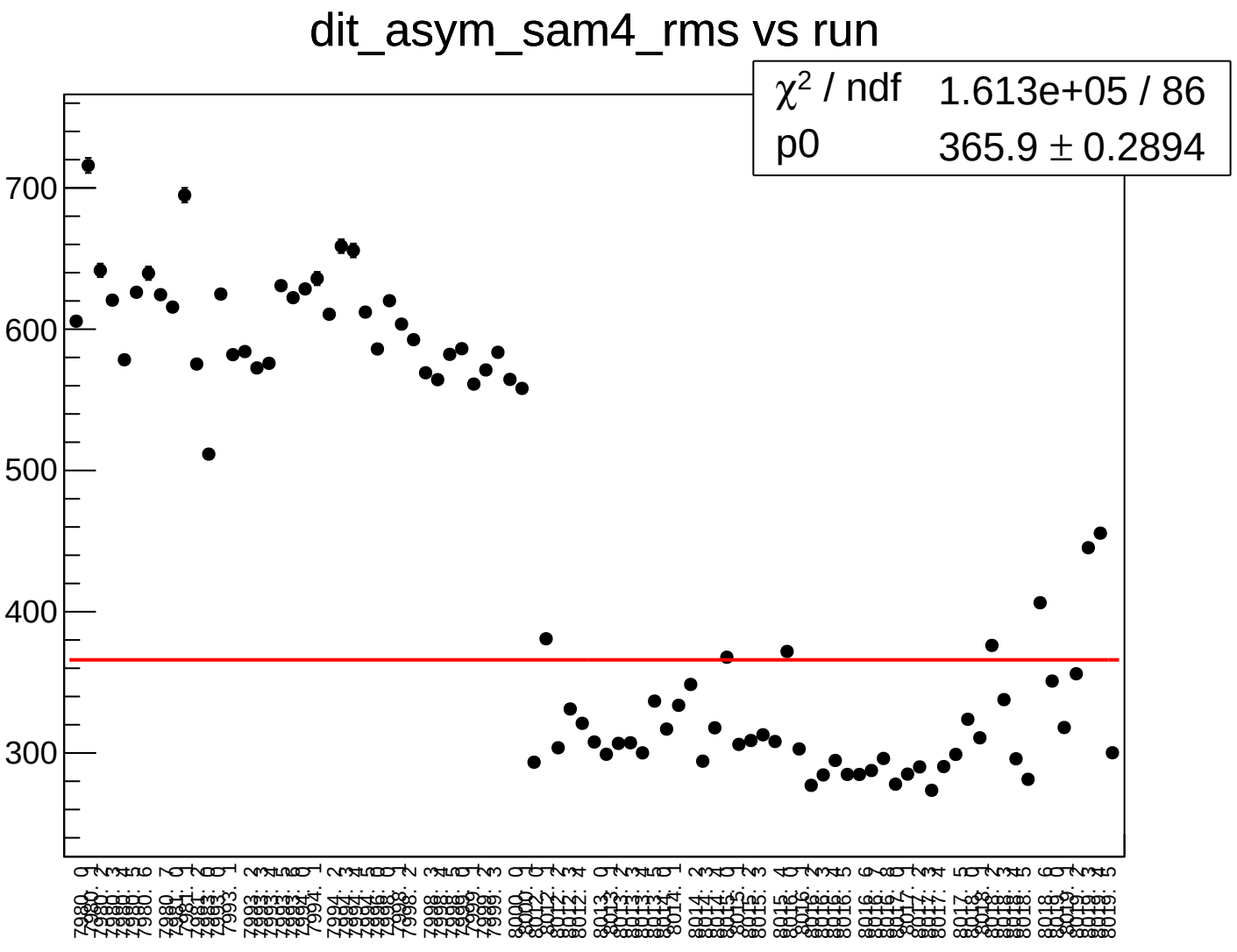

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 120.7 / 86
p0 2327 ± 4207
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −37.43
Std Dev 0
3
2
1
0
−1
−2
−3

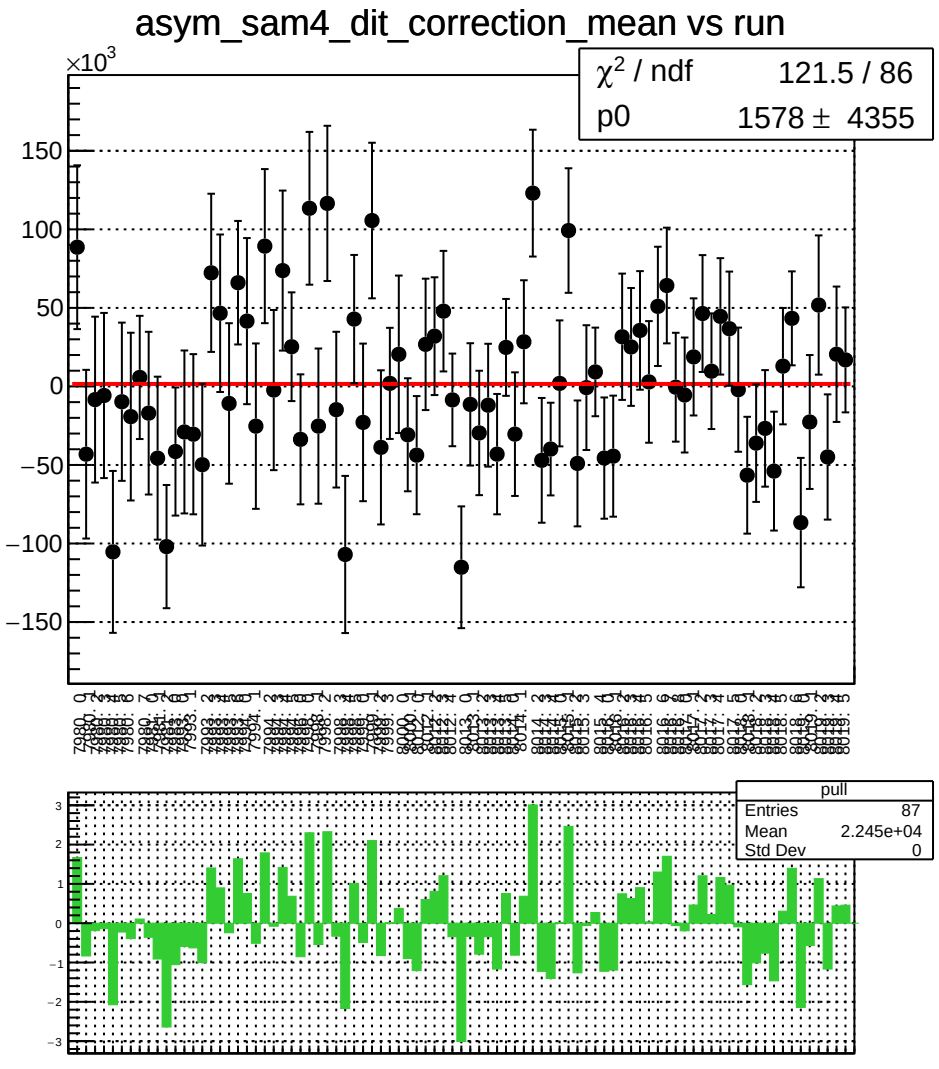

pull1D
Entries 87
Mean −0.01474
Std Dev 1.178
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

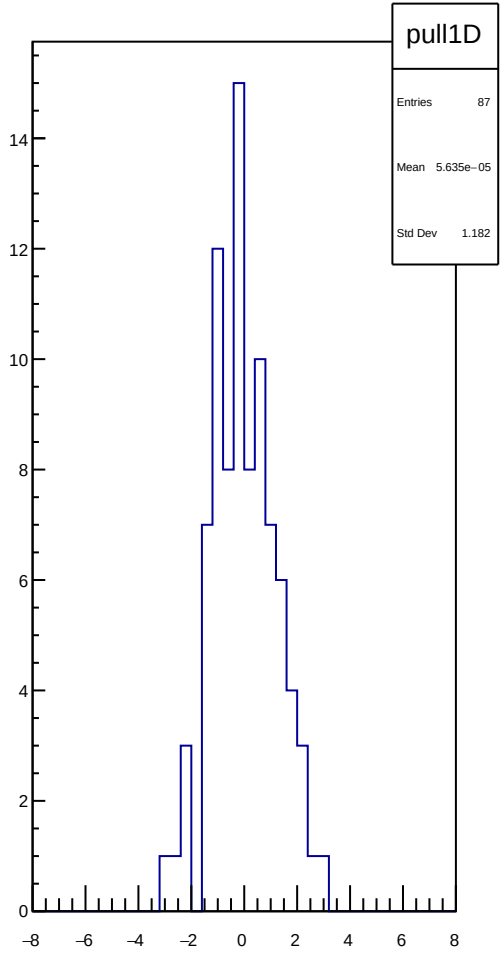

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 3.165e+04 / 86
p0 3911 ± 2.975
5500
5000
4500
4000
3500

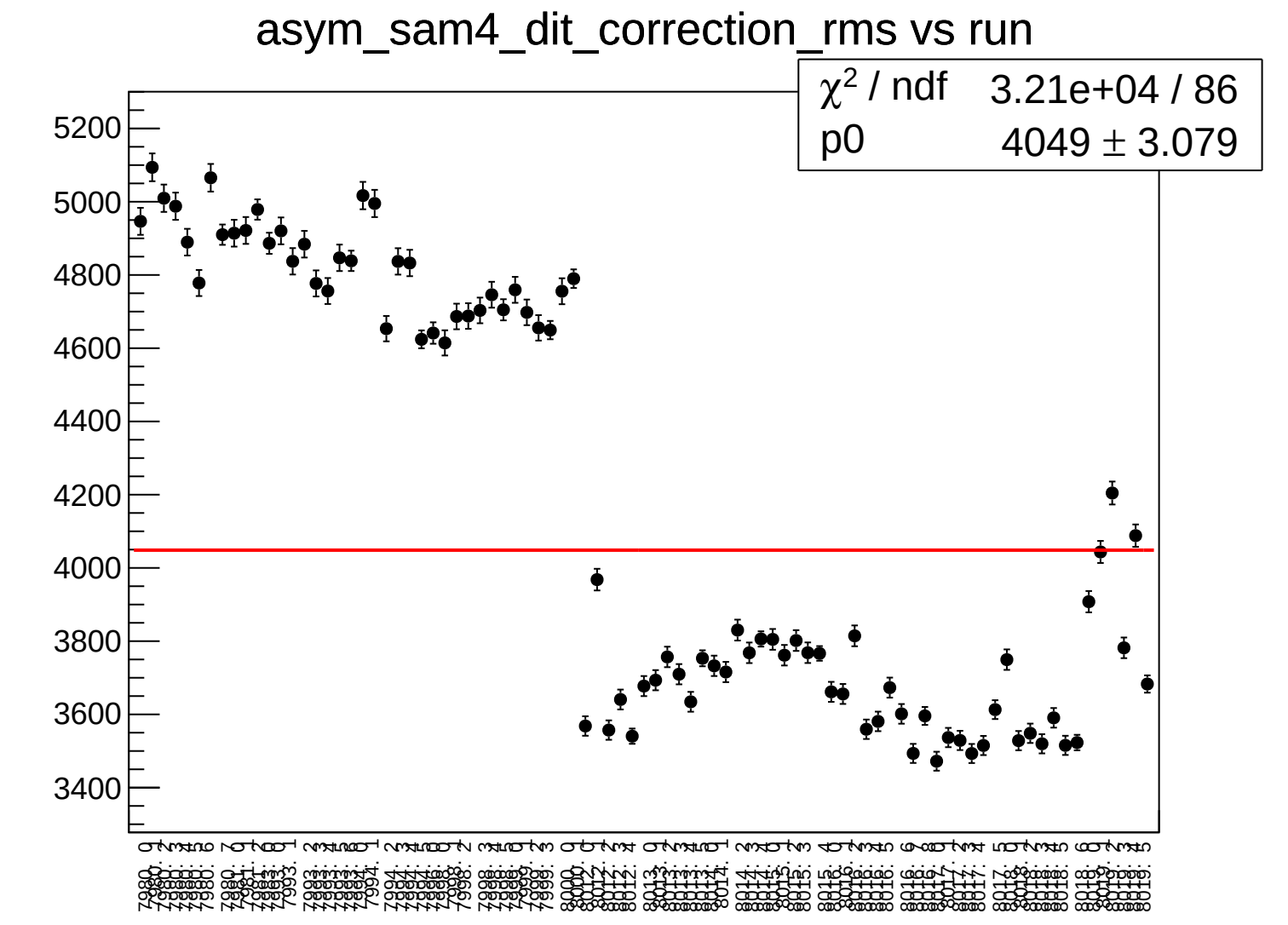

dit_asym_sam4_mean vs run
χ² / ndf 92.24 / 86
p0 261.1 ± 409.2
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −70.33
Std Dev 0
2
1
0
−1
−2
−3

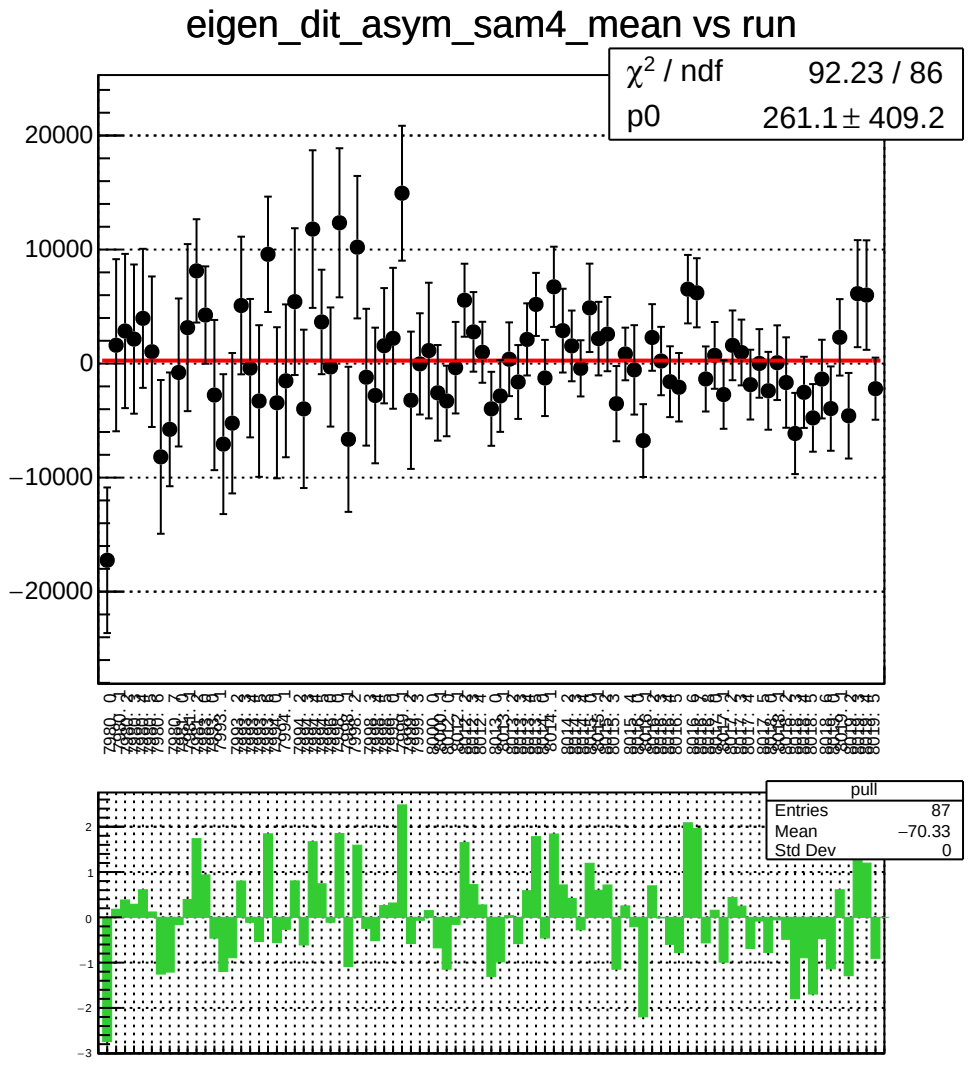

pull1D
Entries 87
Mean 0.01924
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

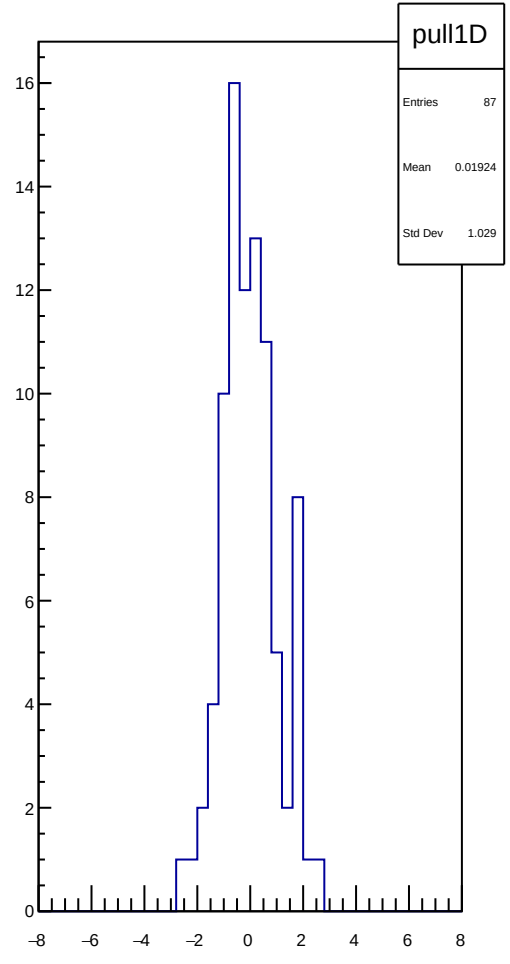

dit_asym_sam4_rms vs run
χ² / ndf 1.613e+05 / 86
p0 365.9 ± 0.2894
700
600
500
400
300

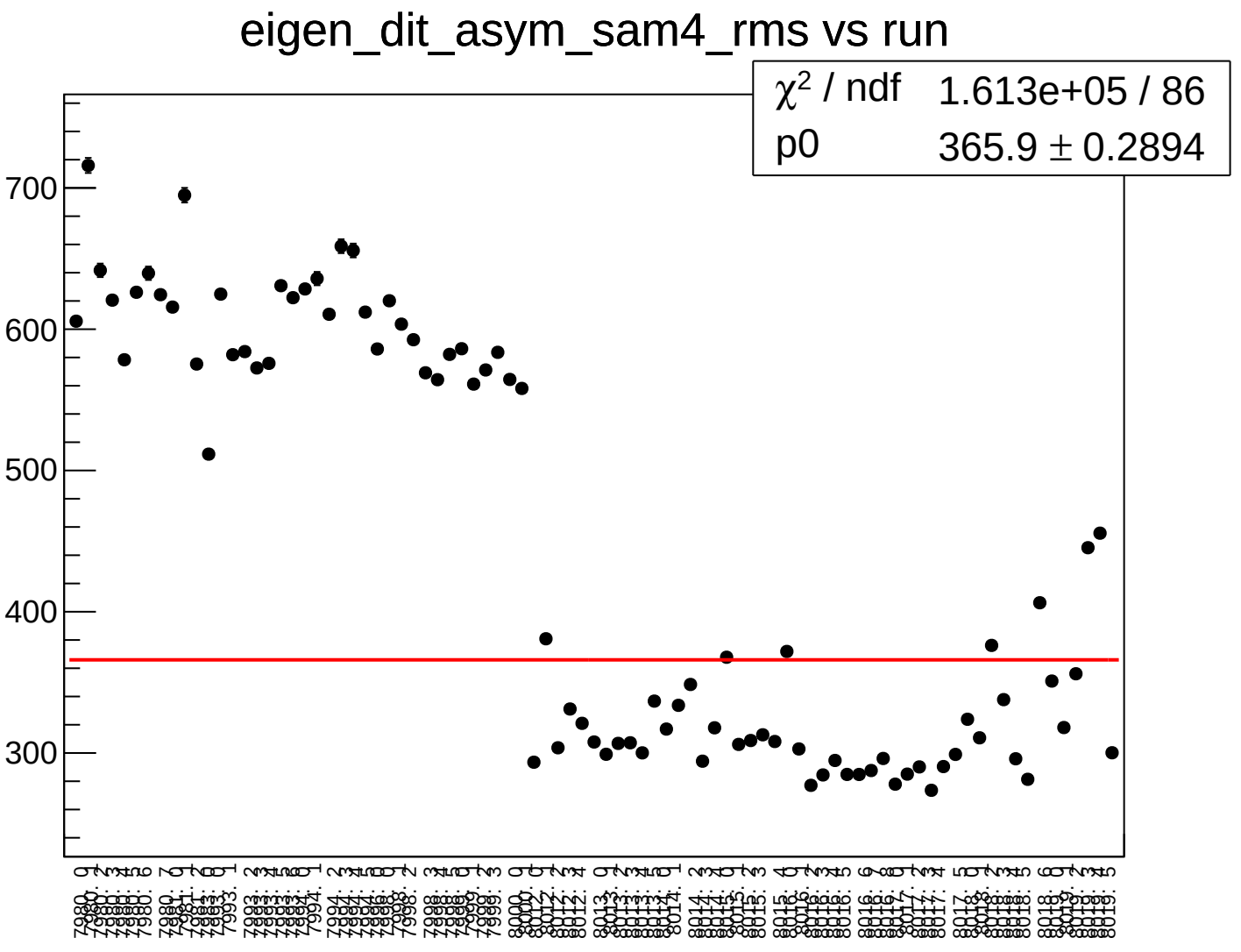

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 121.5 / 86
p0 1578 ± 4355
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 2.245e+04
Std Dev 0
3
2
1
0
−1
−2
−3

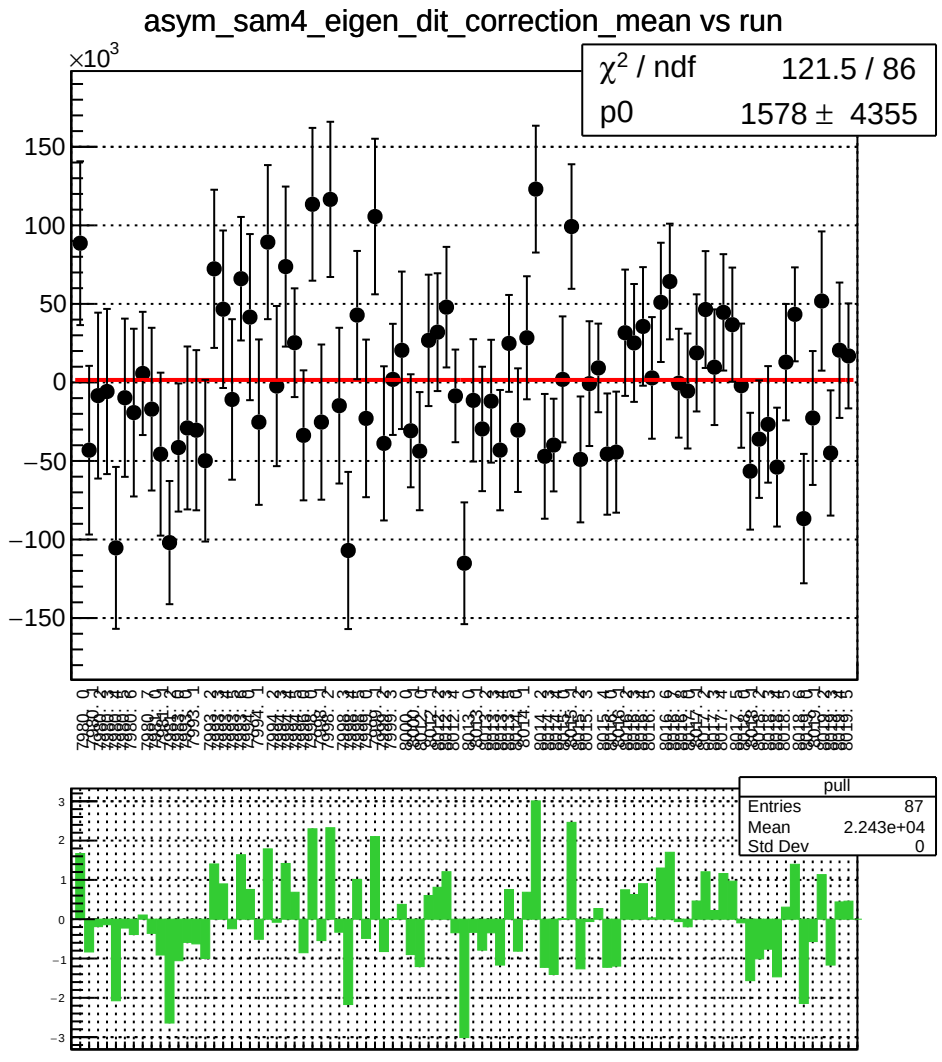

pull1D
Entries 87
Mean 5.635e−05
Std Dev 1.182
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

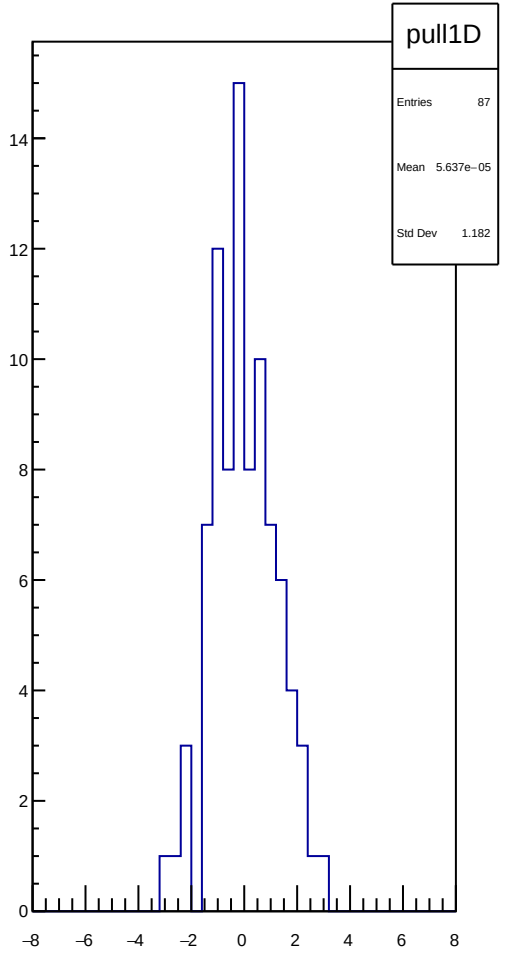

asym_sam4_dit_correction_rms vs run
χ² / ndf 3.21e+04 / 86
p0 4049 ± 3.079
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

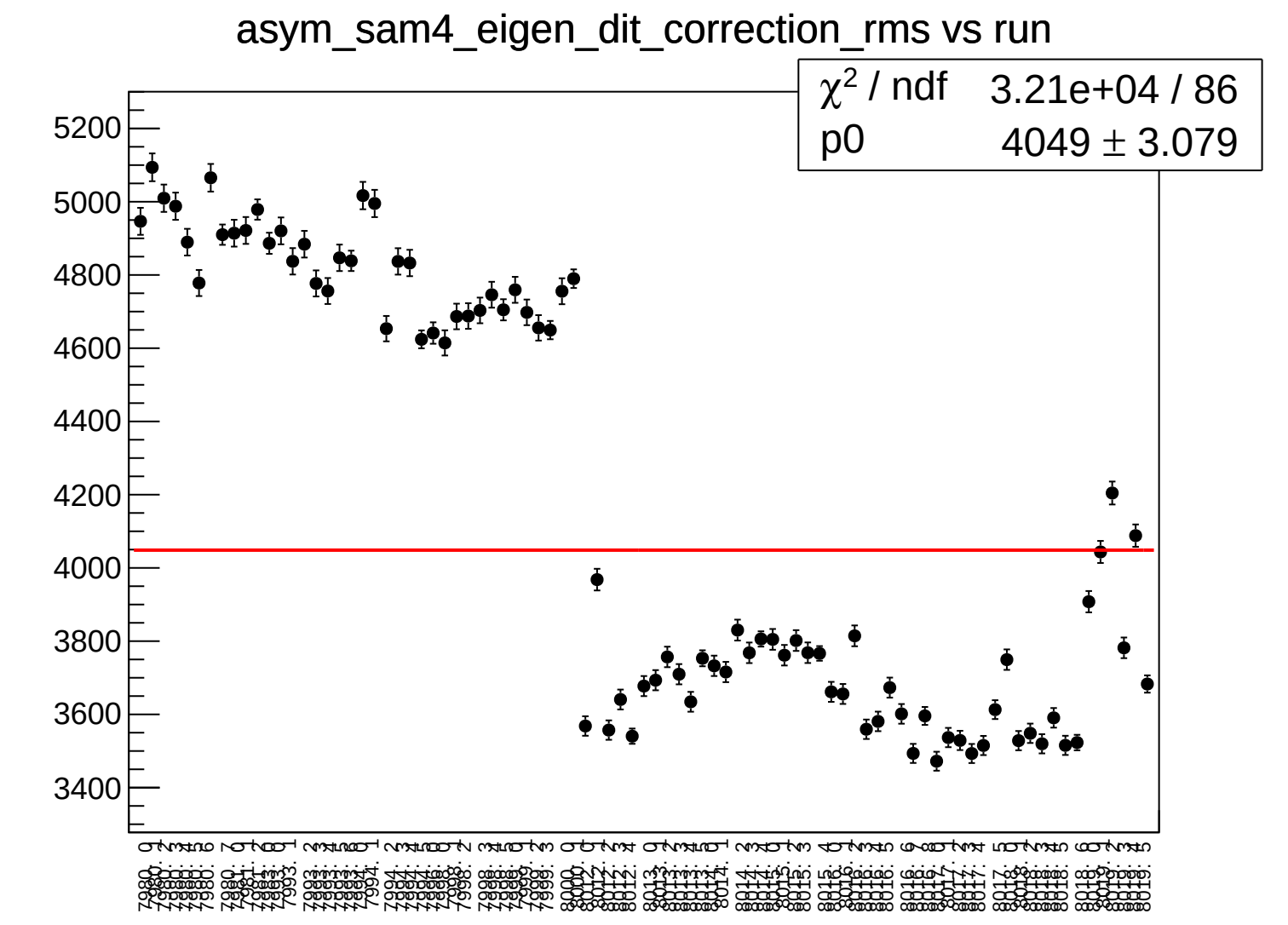

eigen_dit_asym_sam4_mean vs run
χ² / ndf 92.23 / 86
p0 261.1 ± 409.2
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −70.33
Std Dev 0
2
1
0
−1
−2
−3

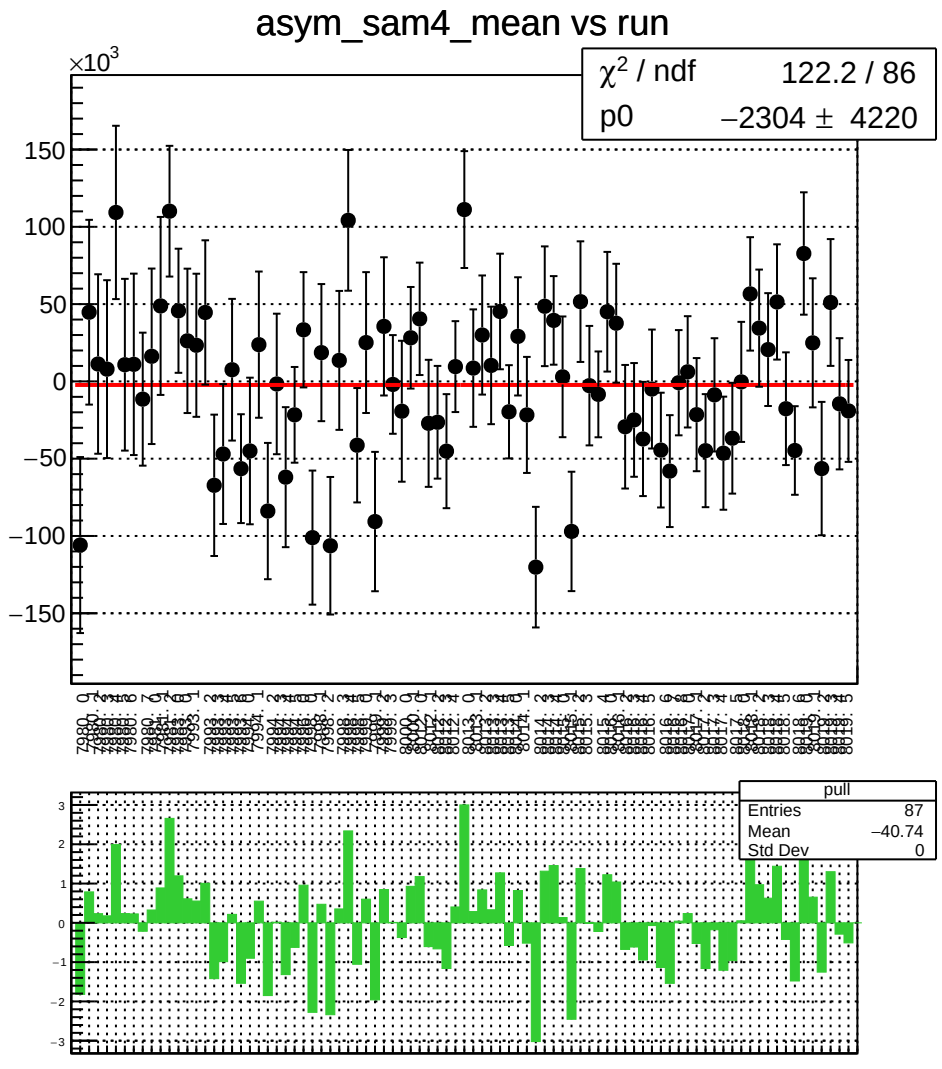

pull1D
Entries 87
Mean 0.01924
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

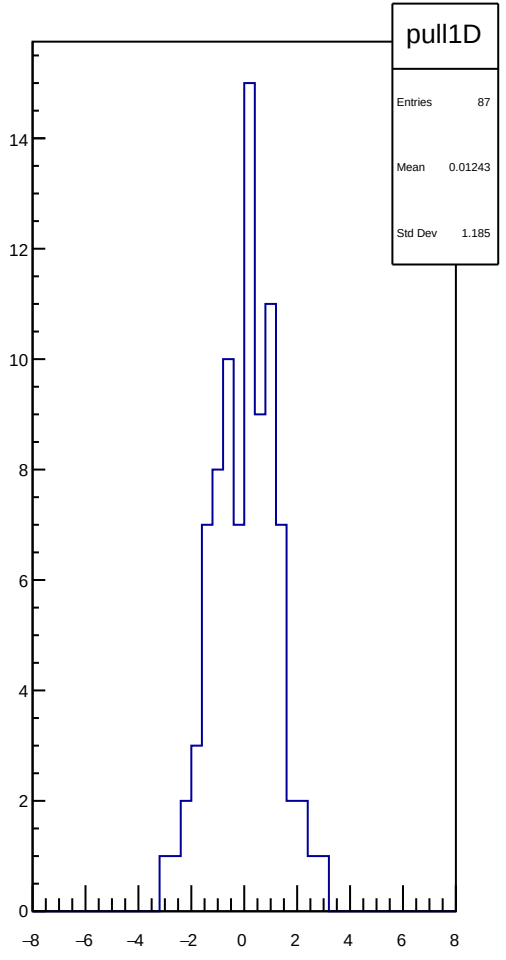

eigen_dit_asym_sam4_rms vs run
χ² / ndf 1.613e+05 / 86
p0 365.9 ± 0.2894
700
600
500
400
300

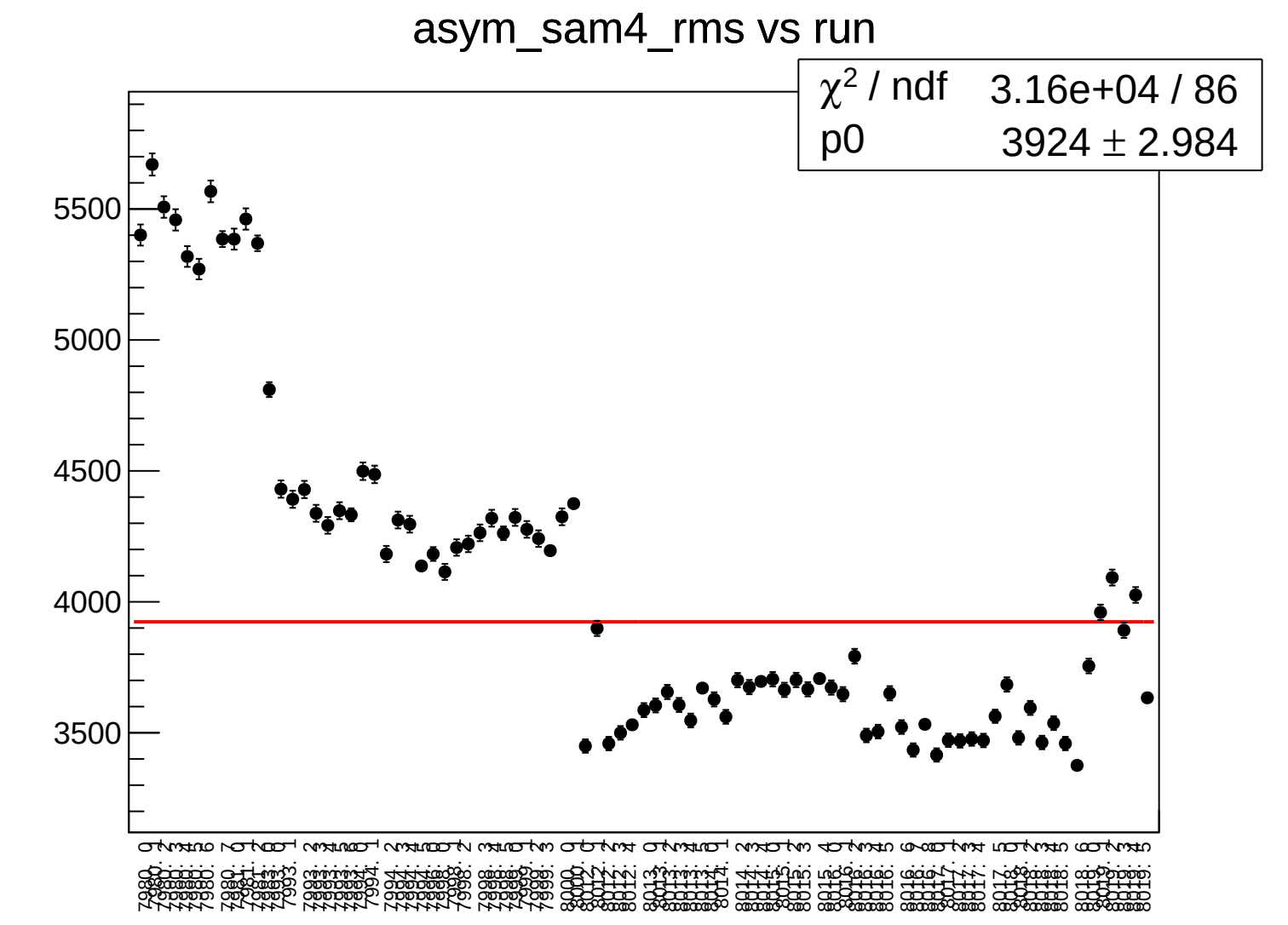

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 121.5 / 86
p0 1578 ± 4355
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 2.243e+04
Std Dev 0
3
2
1
0
−1
−2
−3

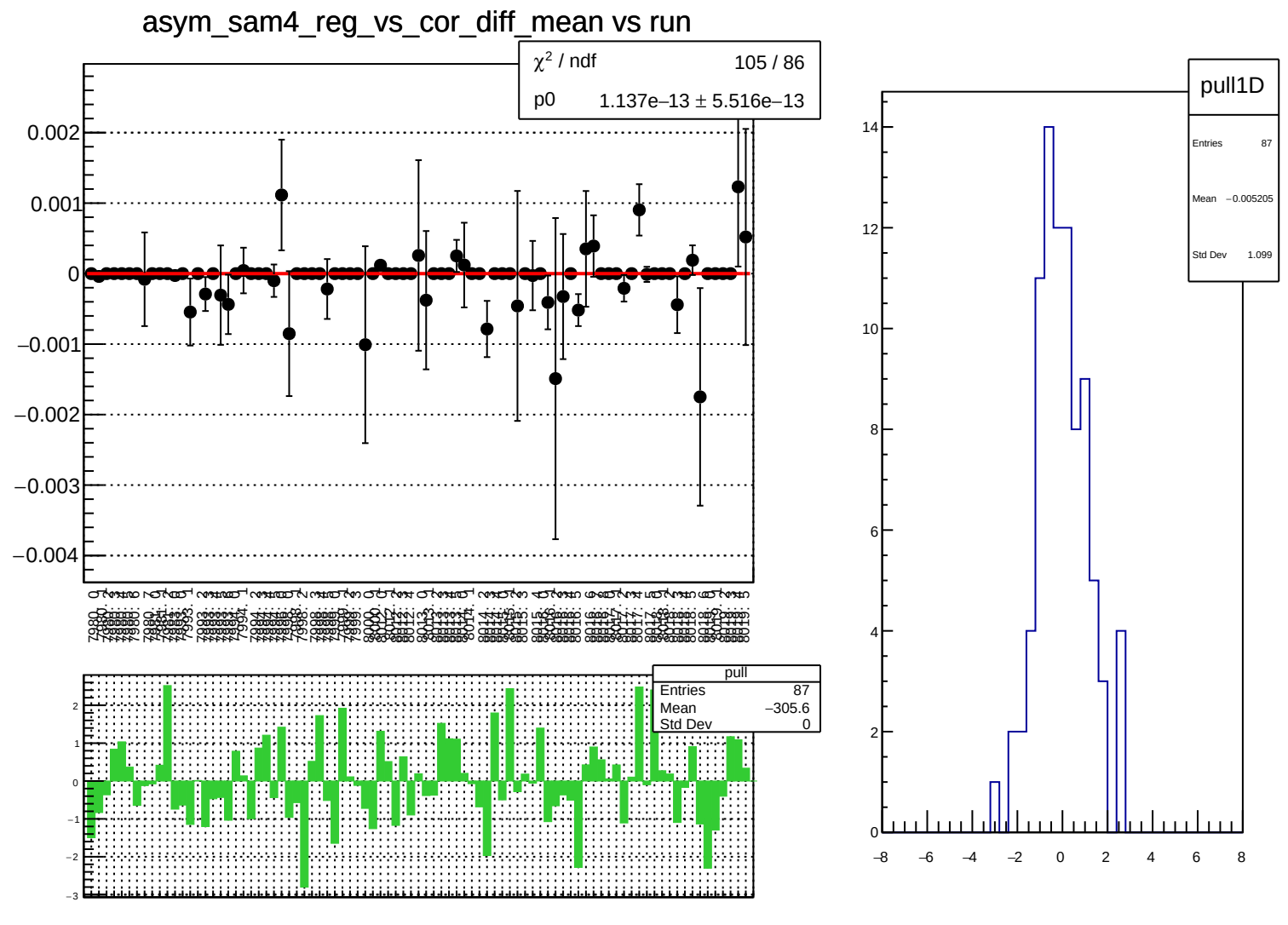

pull1D
Entries 87
Mean 5.637e−05
Std Dev 1.182
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

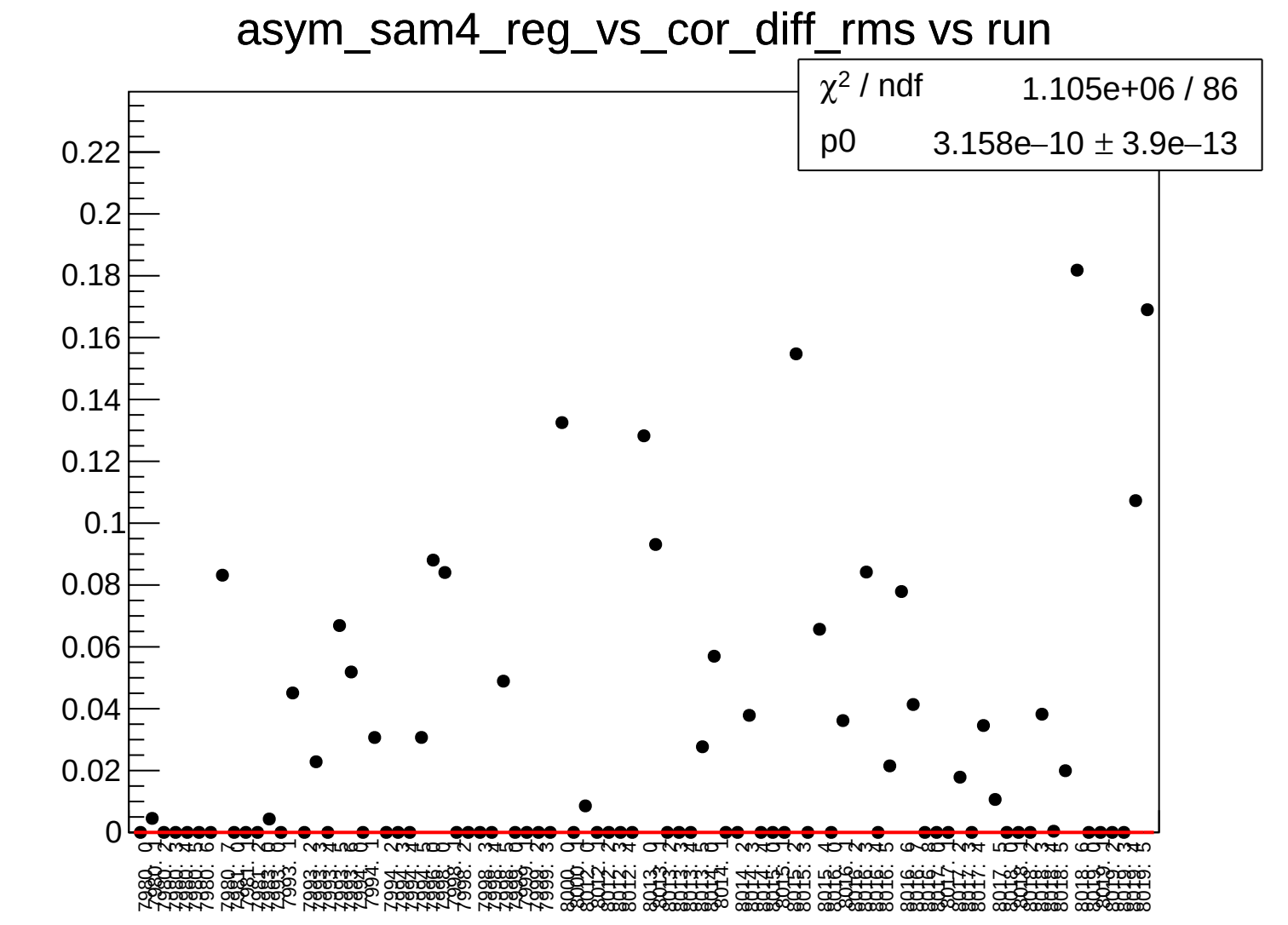

asym_sam4_eigen_dit_correction_rms vs run
χ^2 / ndf 3.21e+04 / 86
p0 4049 ± 3.079
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

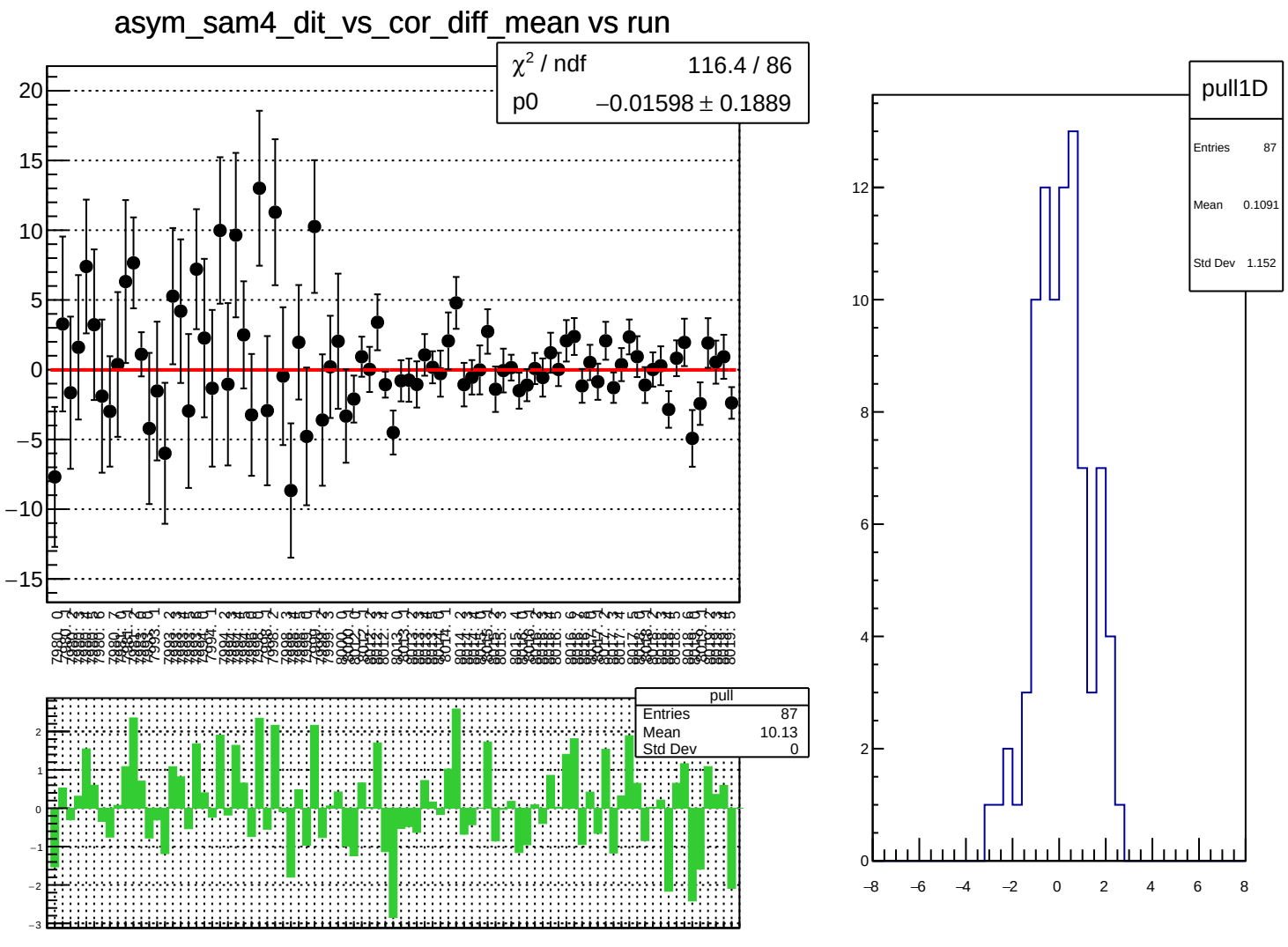

asym_sam4_mean vs run
×10^3
χ² / ndf 122.2 / 86
p0 −2304 ± 4220
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −40.74
Std Dev 0
3
2
1
0
−1
−2
−3

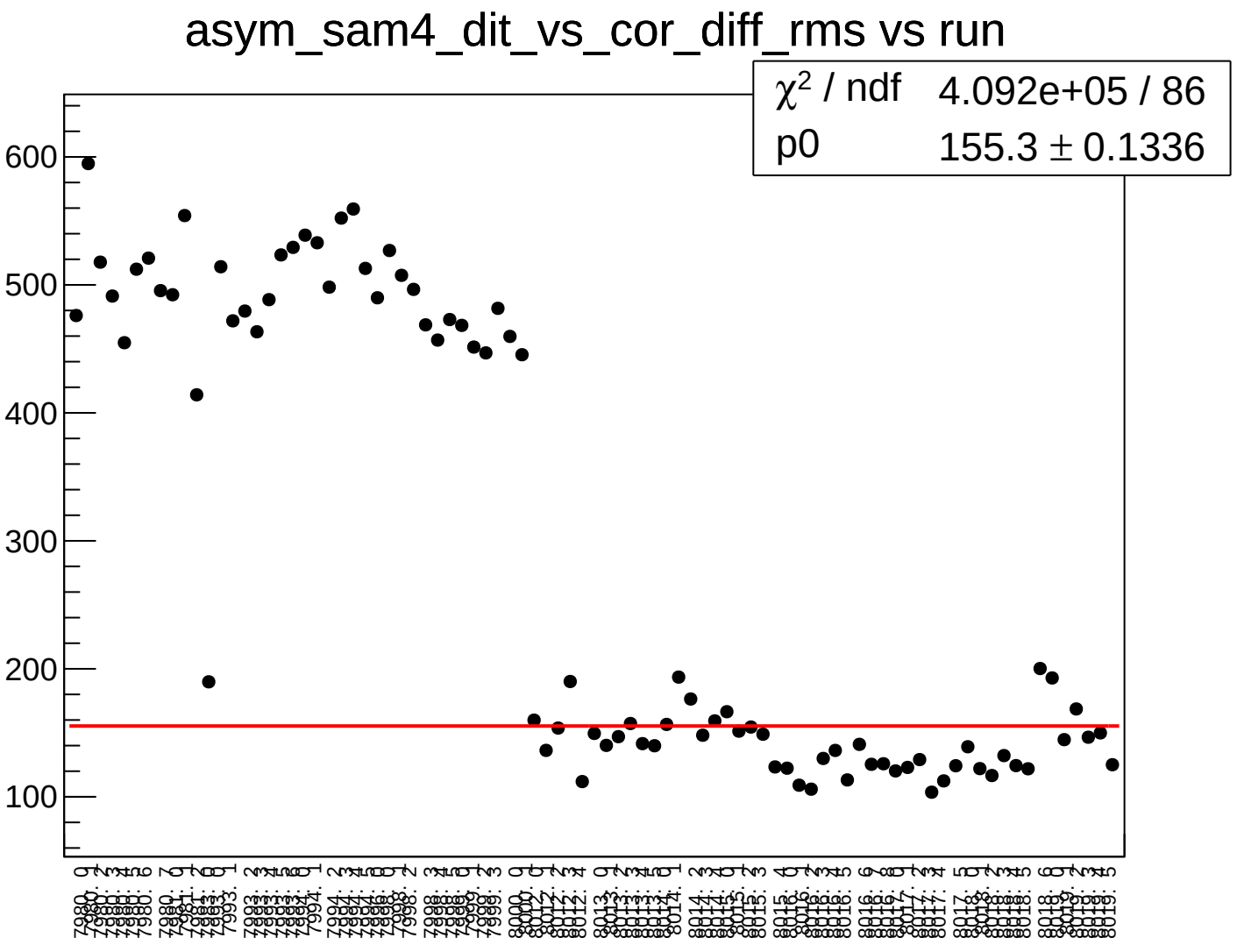

pull1D
Entries 87
Mean 0.01243
Std Dev 1.185
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

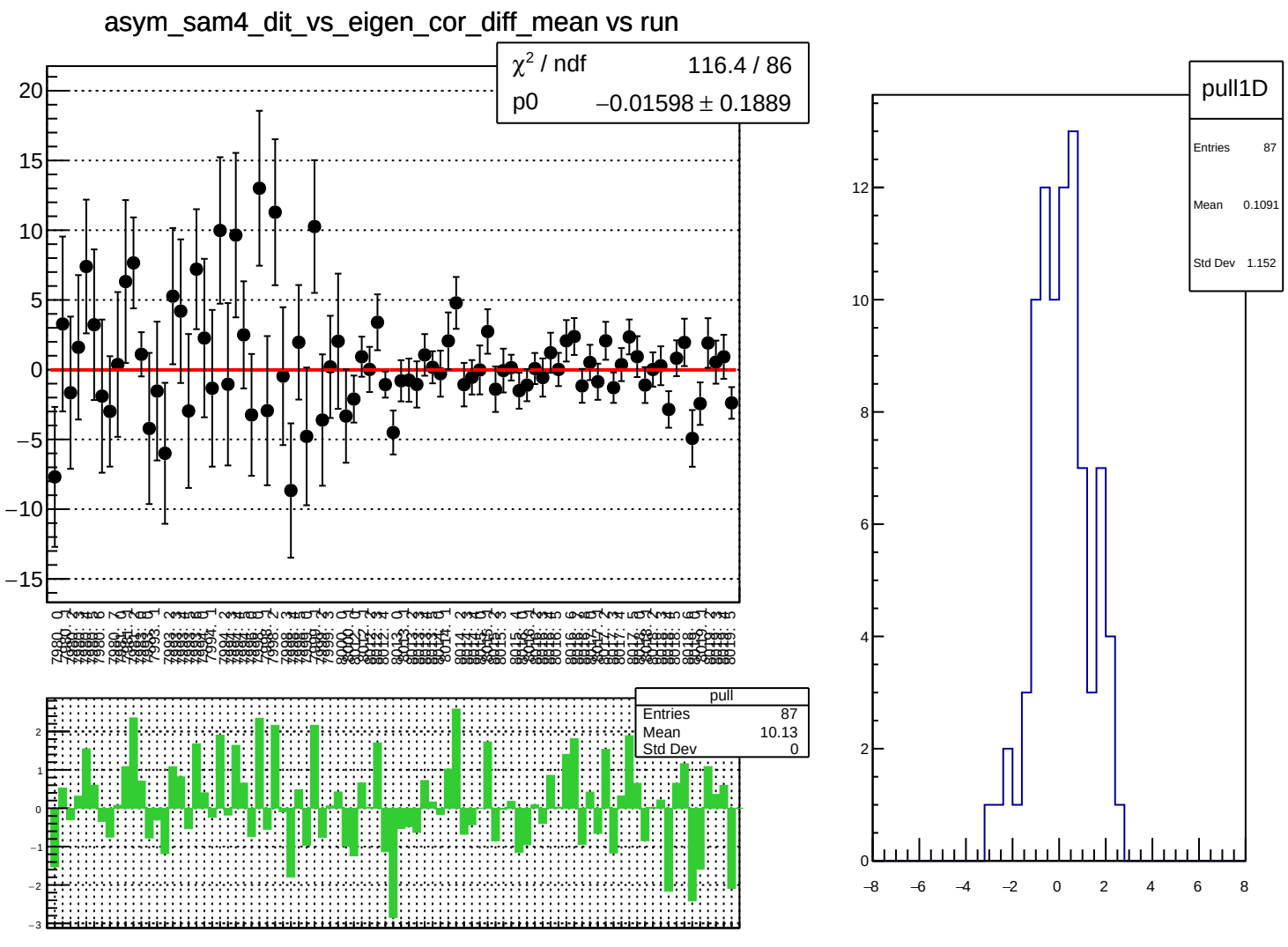

asym_sam4_rms vs run
χ^2 / ndf 3.16e+04 / 86
p0 3924 ± 2.984
5500
5000
4500
4000
3500

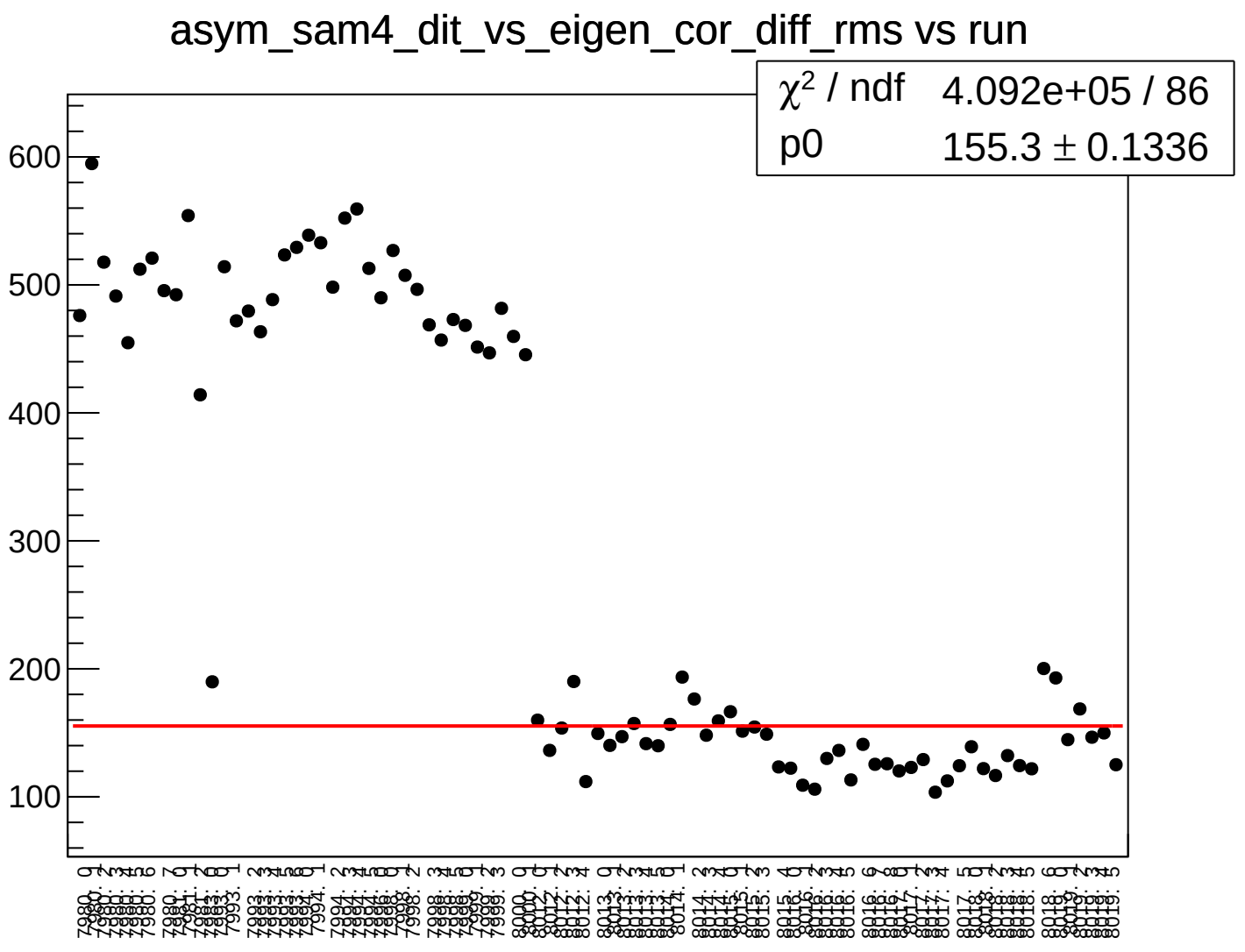

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 105 / 86
p0 1.137e−13 ± 5.516e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 87
Mean −305.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.005205
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

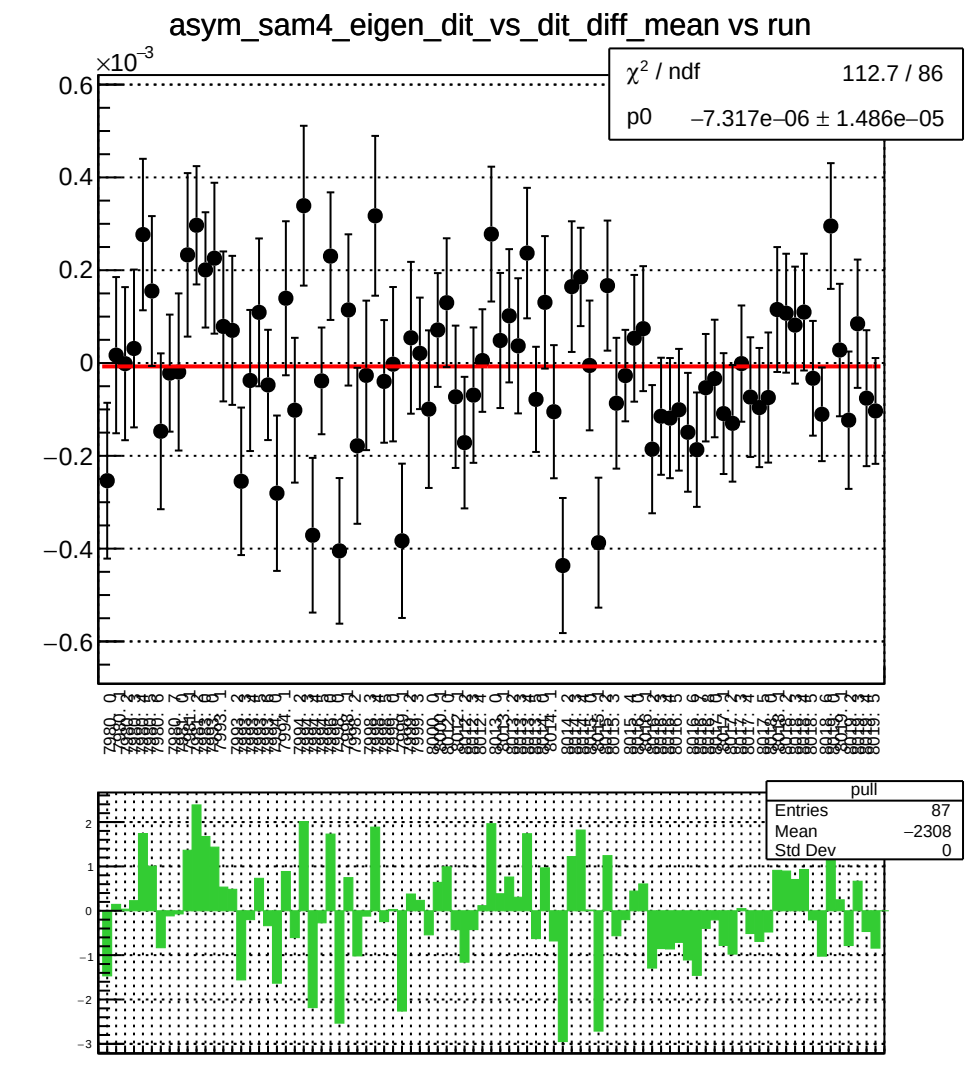

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.105e+06 / 86
p0 3.158e−10 ± 3.9e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

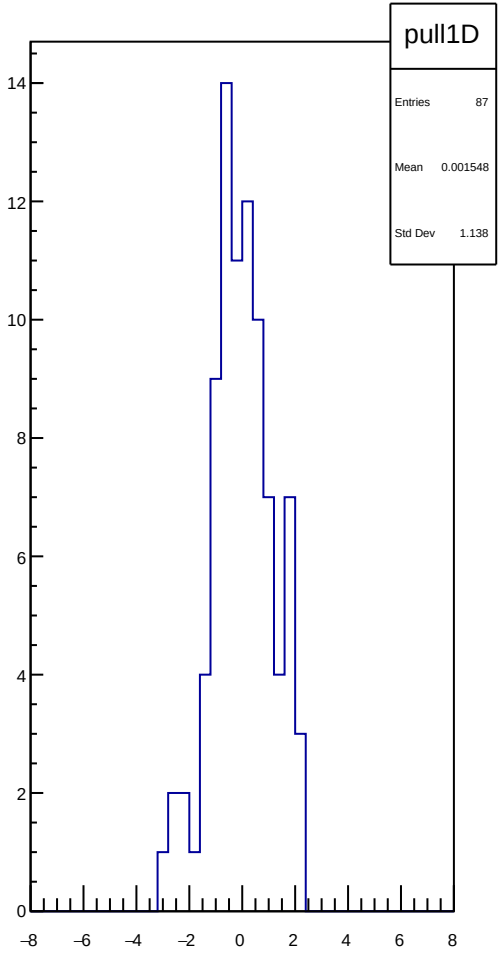

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 116.4 / 86
p0 −0.01598 ± 0.1889
pull
Entries 87
Mean 10.13
Std Dev 0
pull1D
Entries 87
Mean 0.1091
Std Dev 1.152

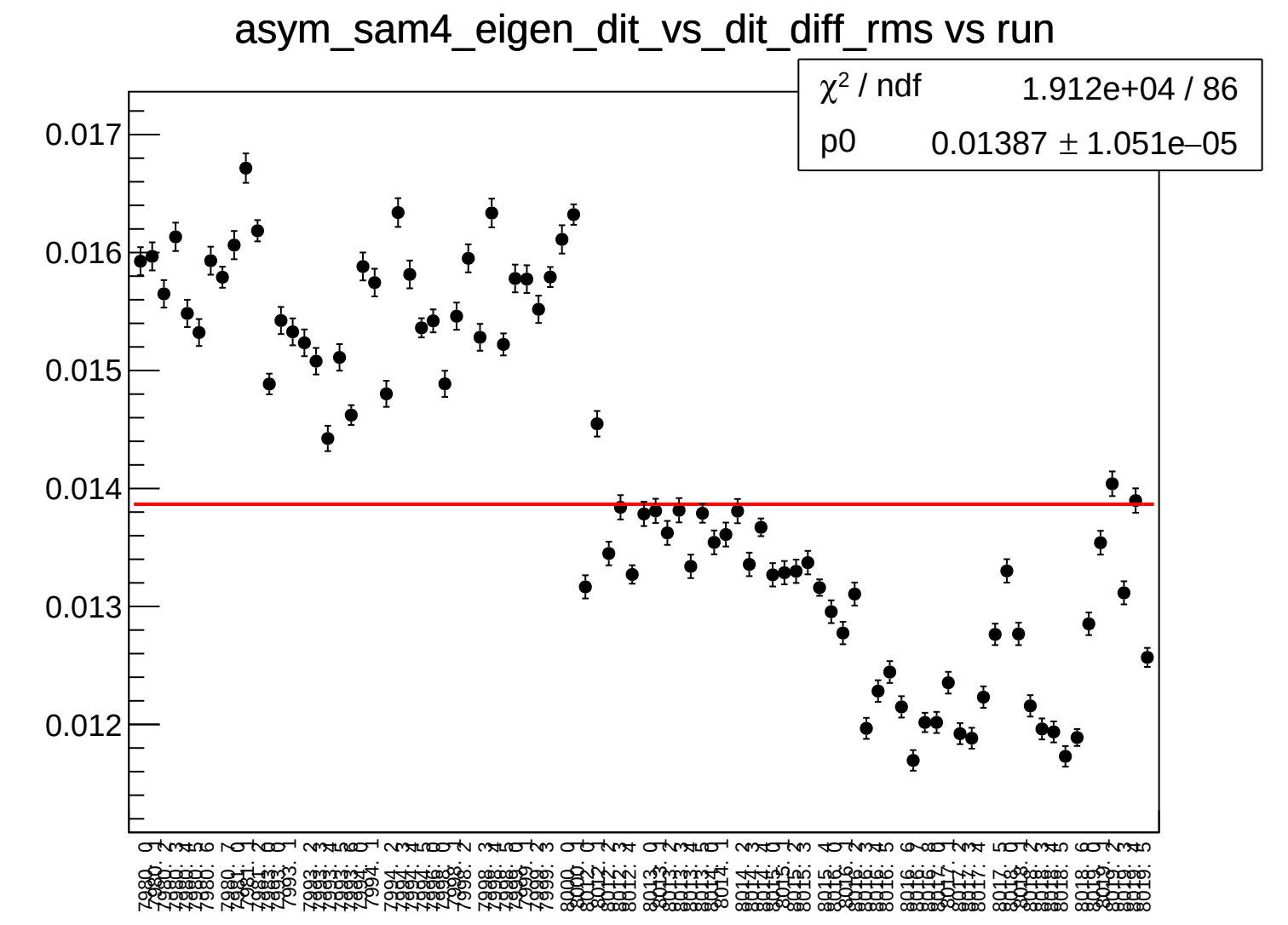

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 4.092e+05 / 86
p0 155.3 ± 0.1336
600
500
400
300
200
100

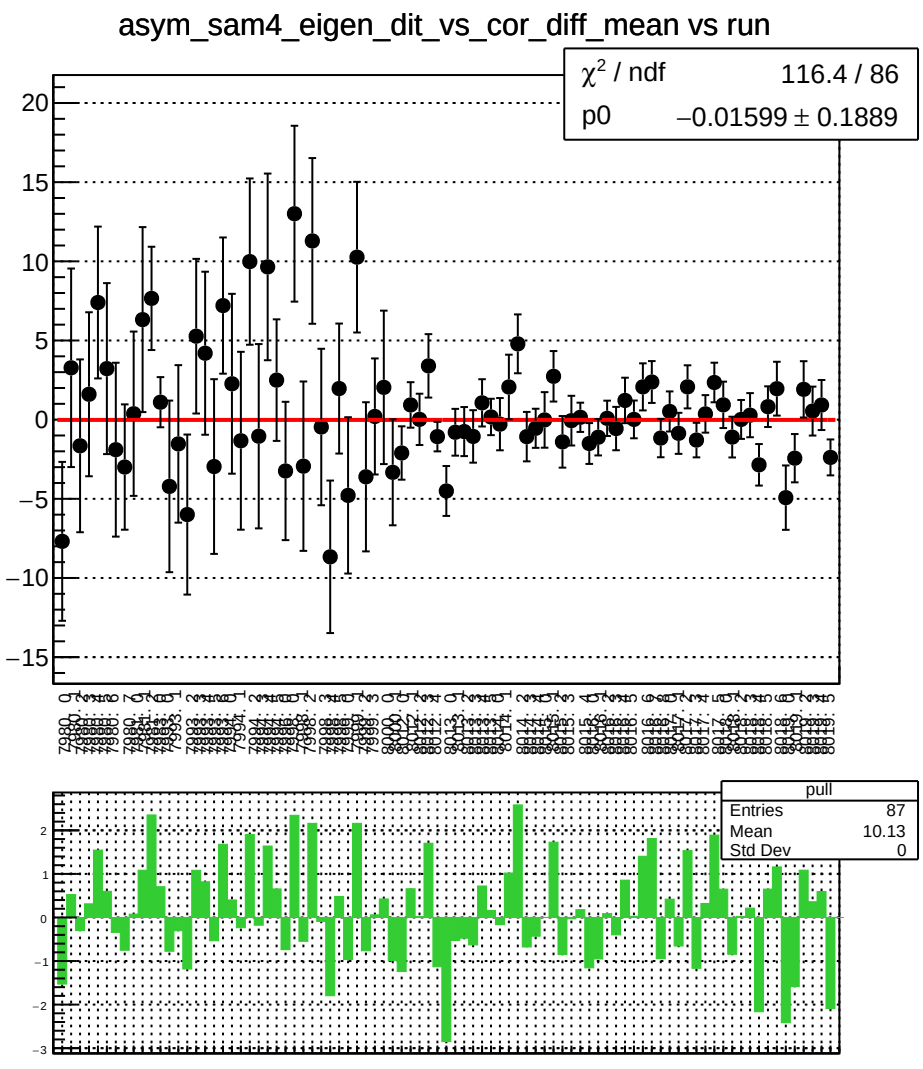

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.4 / 86
p0 −0.01598 ± 0.1889
pull
Entries 87
Mean 10.13
Std Dev 0
pull1D
Entries 87
Mean 0.1091
Std Dev 1.152

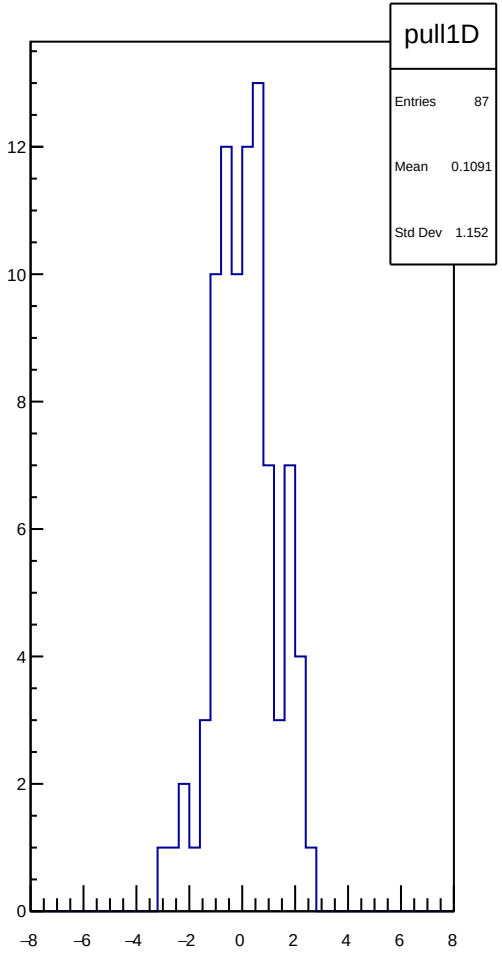

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.092e+05 / 86
p0 155.3 ± 0.1336
600
500
400
300
200
100

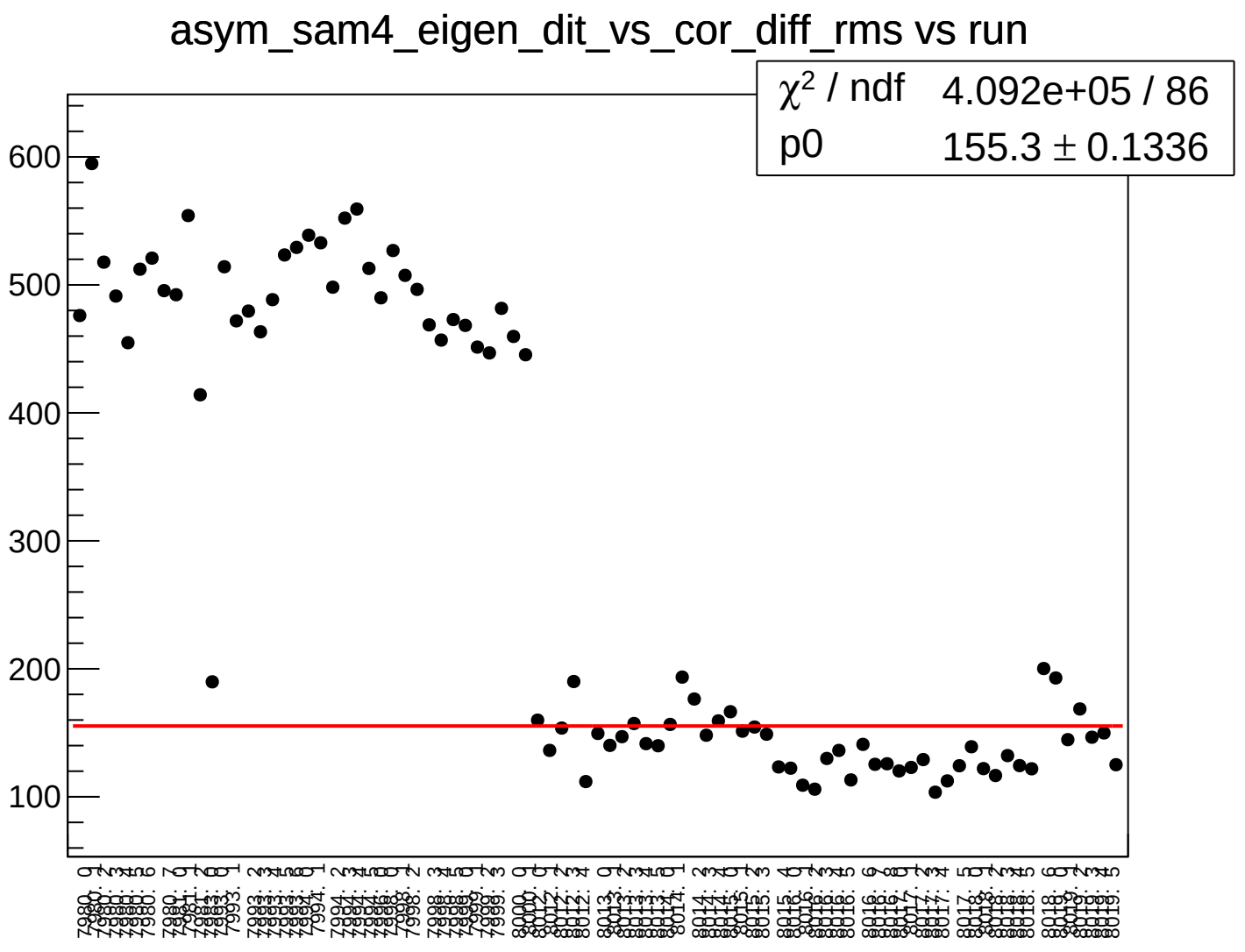

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.7 / 86
p0 −7.317e−06 ± 1.486e−05
pull
Entries 87
Mean −2308
Std Dev 0

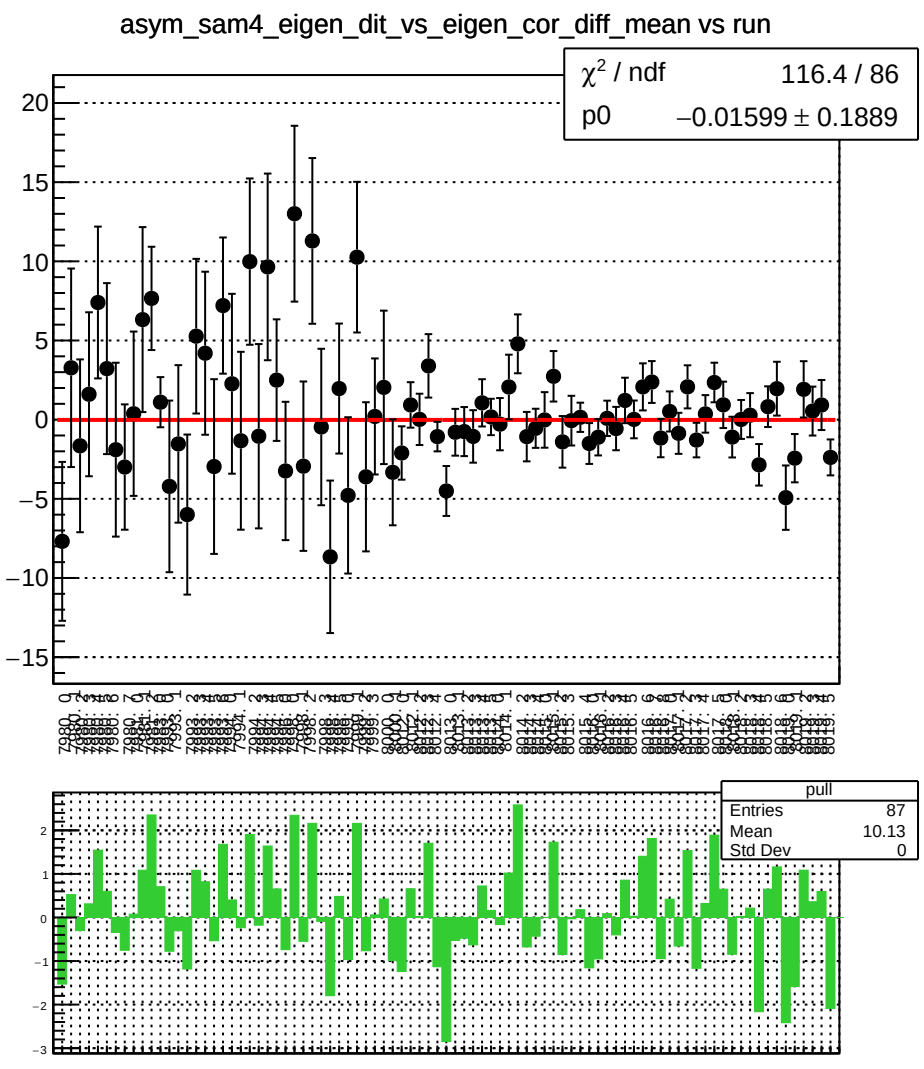

pull1D
Entries 87
Mean 0.001548
Std Dev 1.138

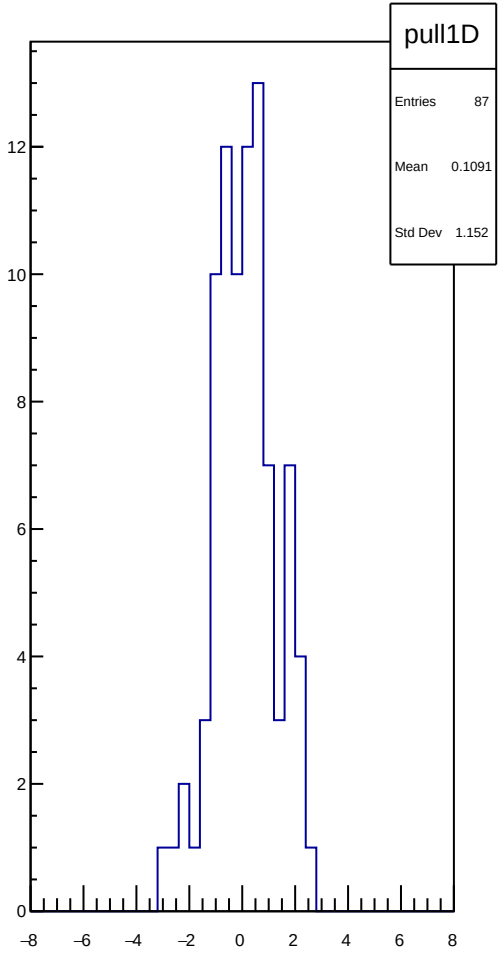

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.912e+04 / 86
p0 0.01387 ± 1.051e–05
0.017
0.016
0.015
0.014
0.013
0.012

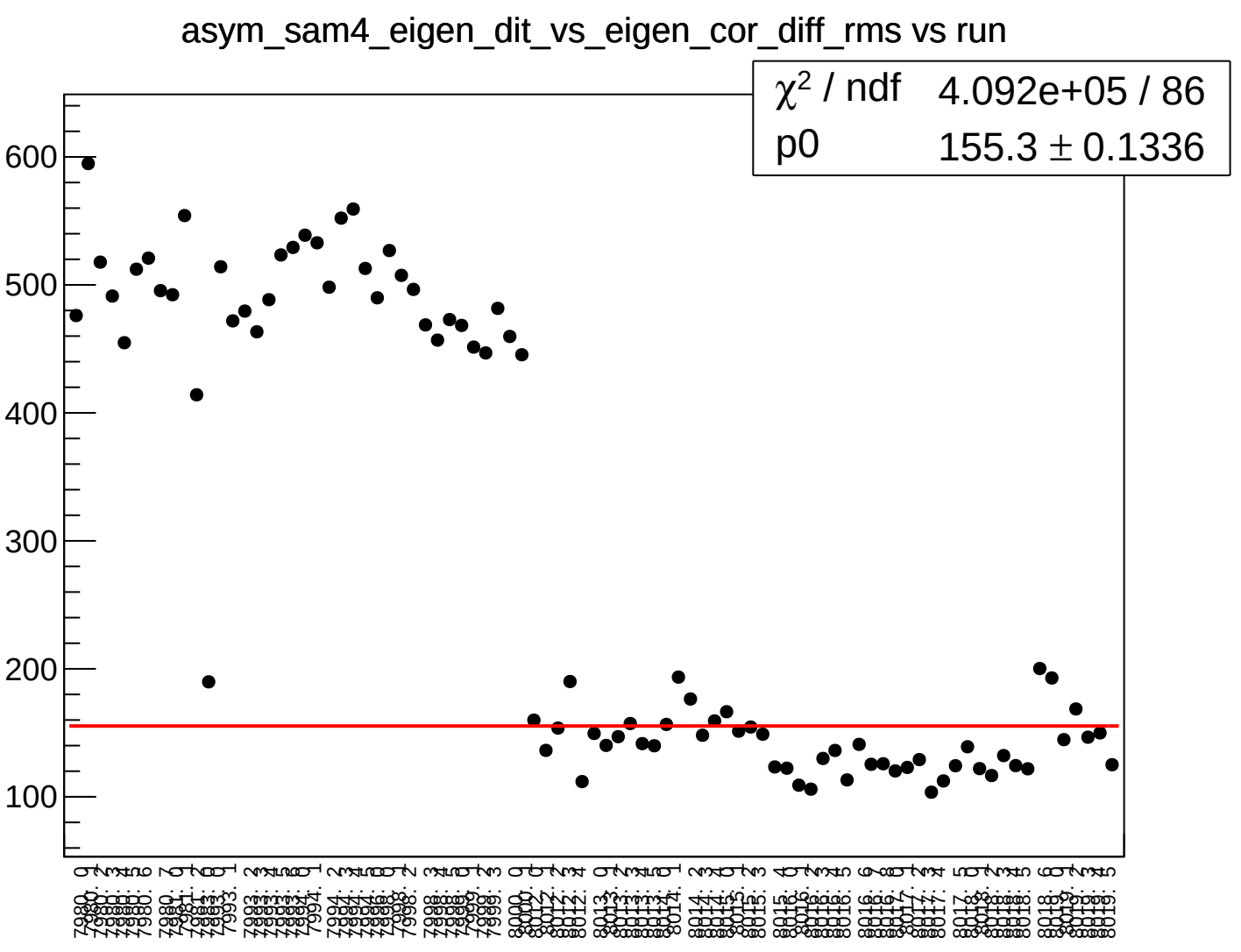

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 116.4 / 86
p0 −0.01599 ± 0.1889
pull
Entries 87
Mean 10.13
Std Dev 0

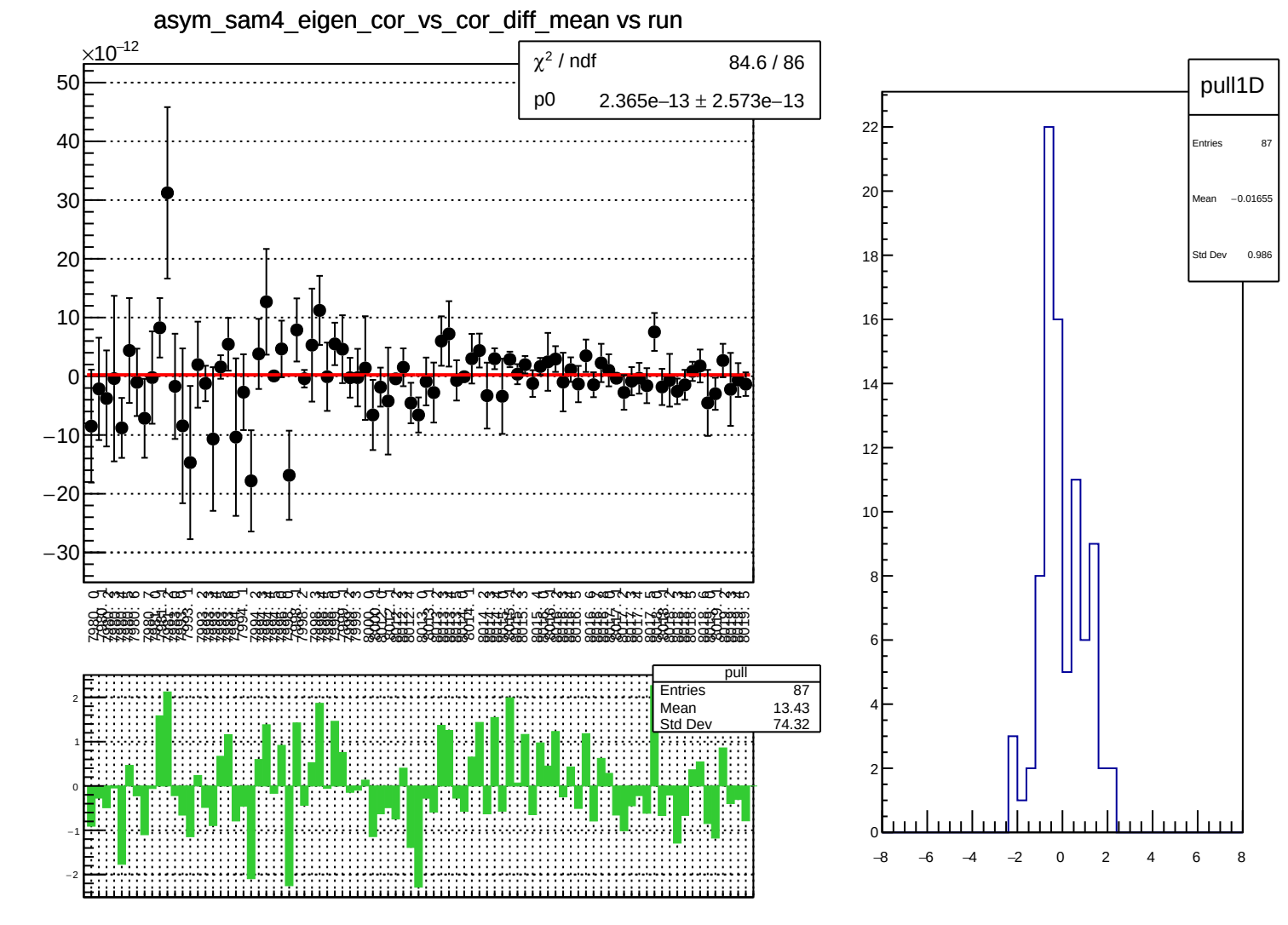

pull1D
Entries 87
Mean 0.1091
Std Dev 1.152

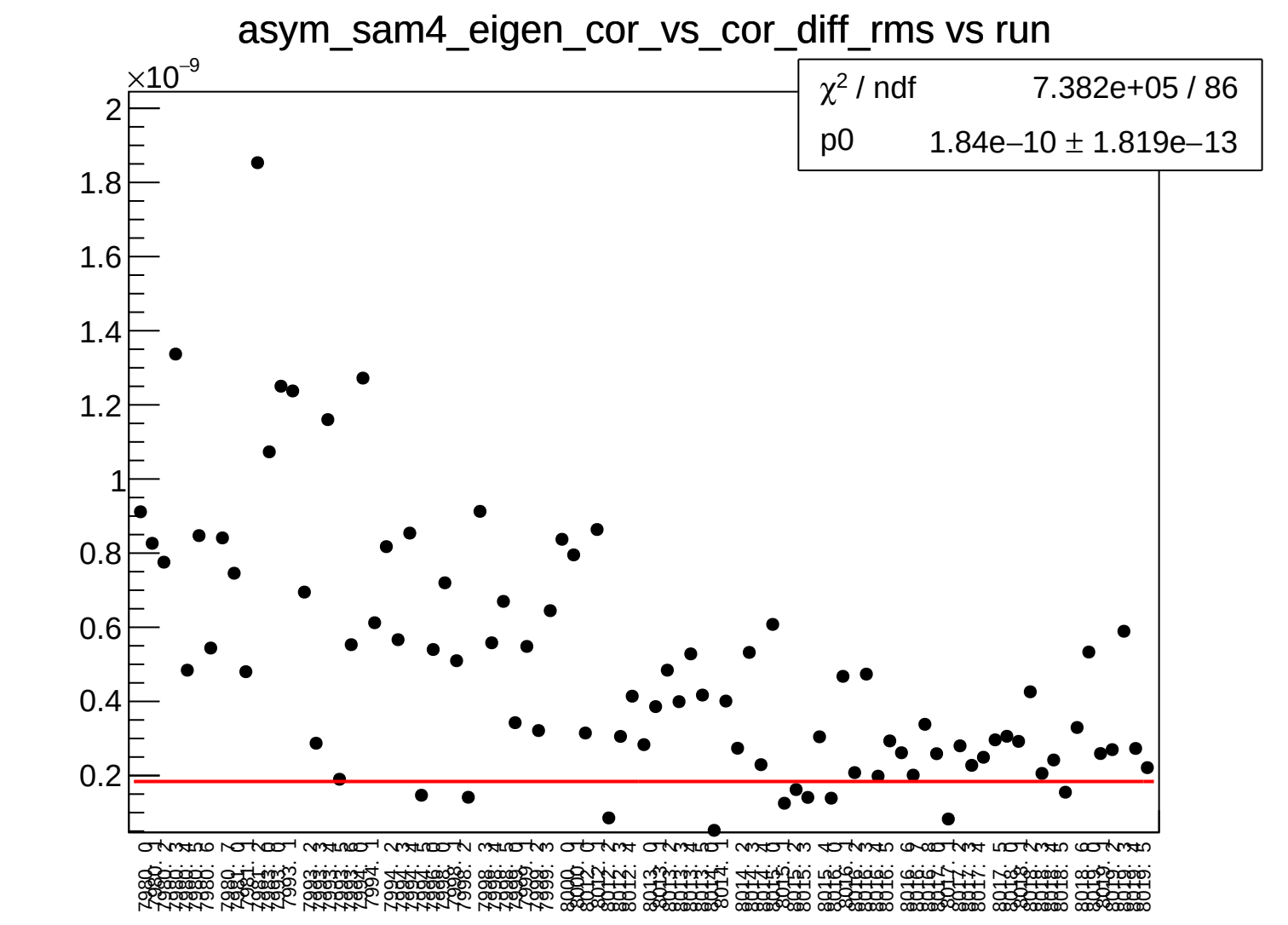

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.092e+05 / 86
p0 155.3 ± 0.1336
600
500
400
300
200
100

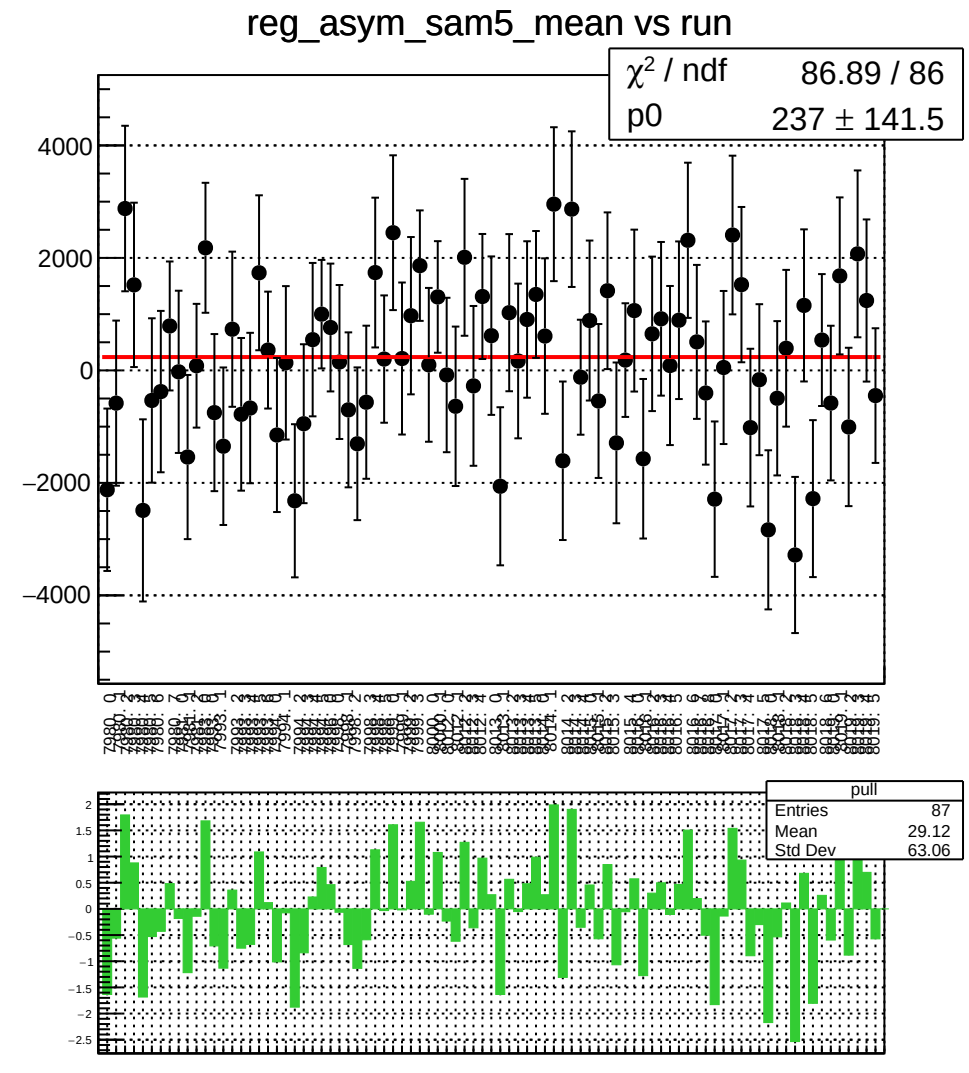

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.4 / 86
p0 −0.01599 ± 0.1889
pull
Entries 87
Mean 10.13
Std Dev 0

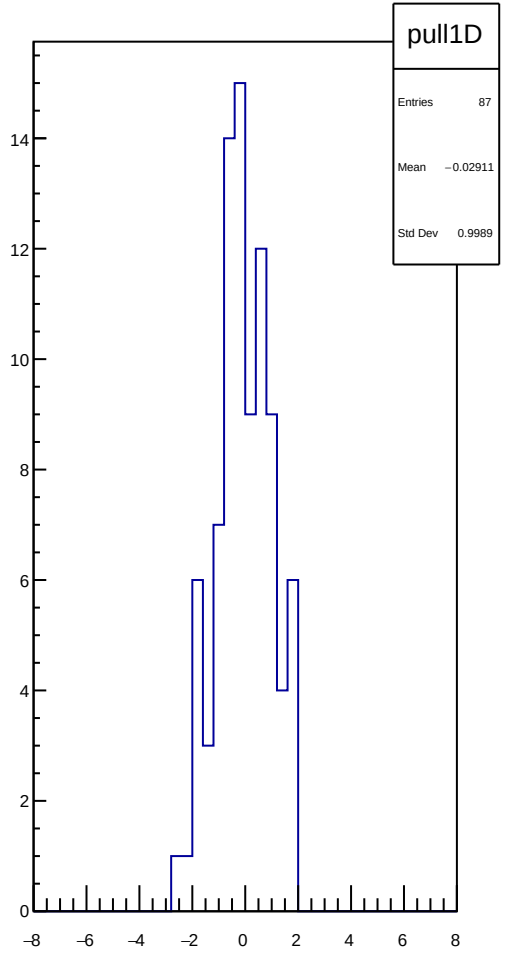

pull1D
Entries 87
Mean 0.1091
Std Dev 1.152

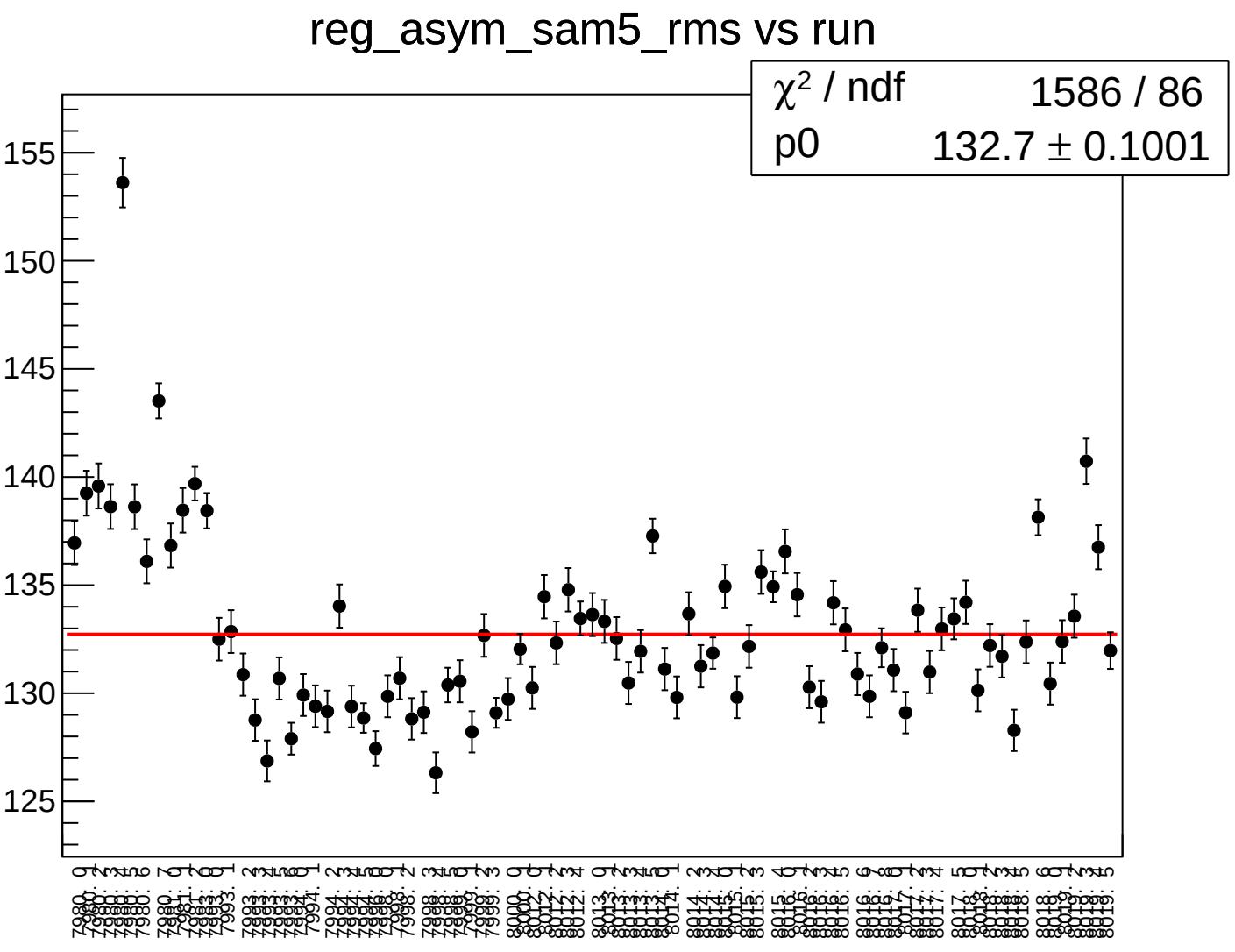

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.092e+05 / 86
p0 155.3 ± 0.1336
600
500
400
300
200
100

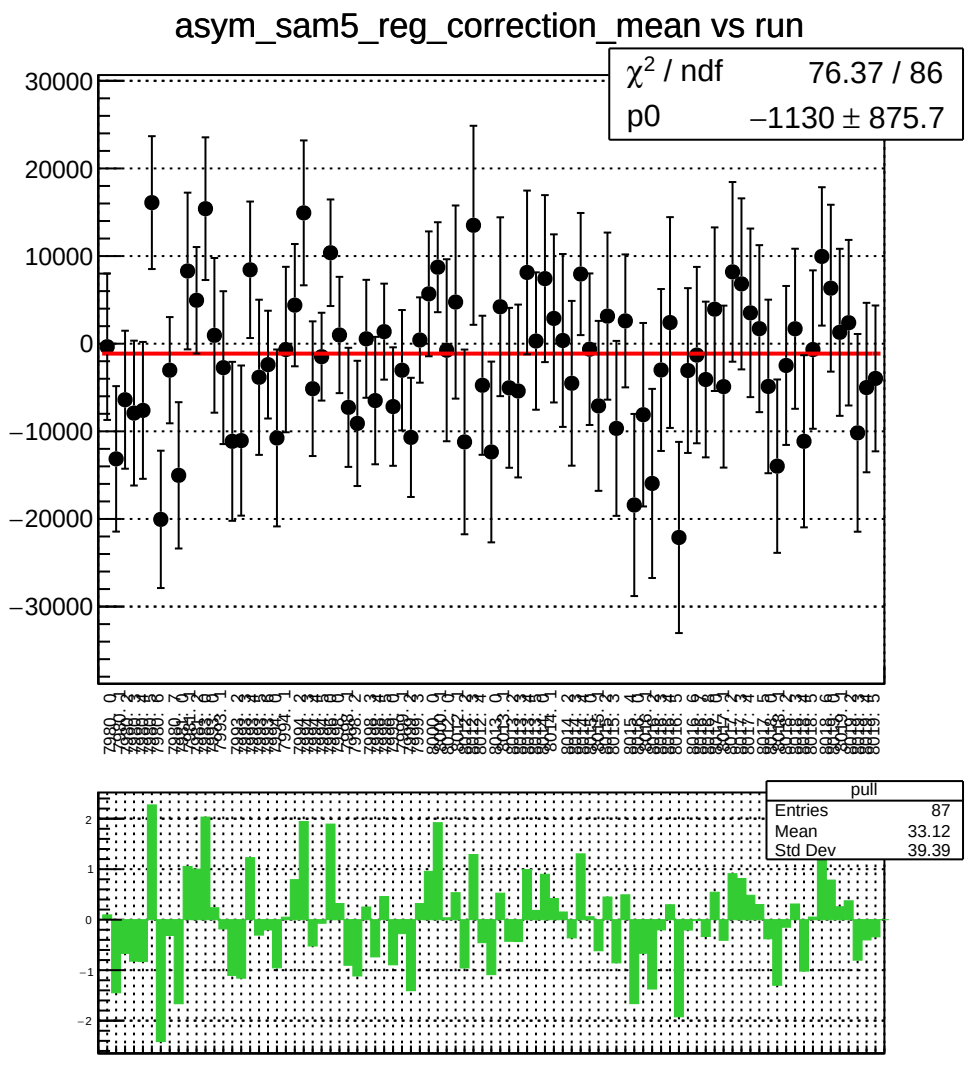

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.6 / 86
p0 2.365e−13 ± 2.573e−13
50
40
30
20
10
0
−10
−20
−30
pull
Entries 87
Mean 13.43
Std Dev 74.32
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01655
Std Dev 0.986
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

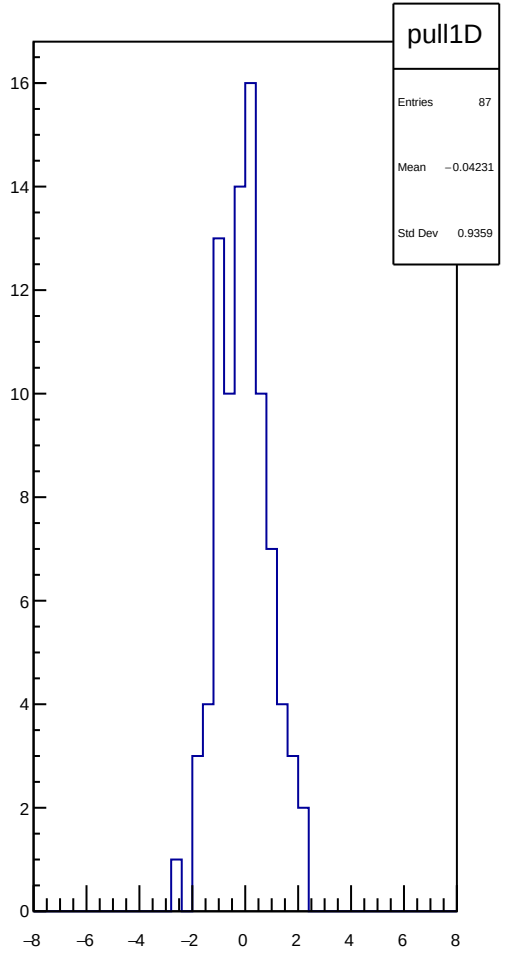

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.382e+05 / 86
p0 1.84e−10 ± 1.819e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

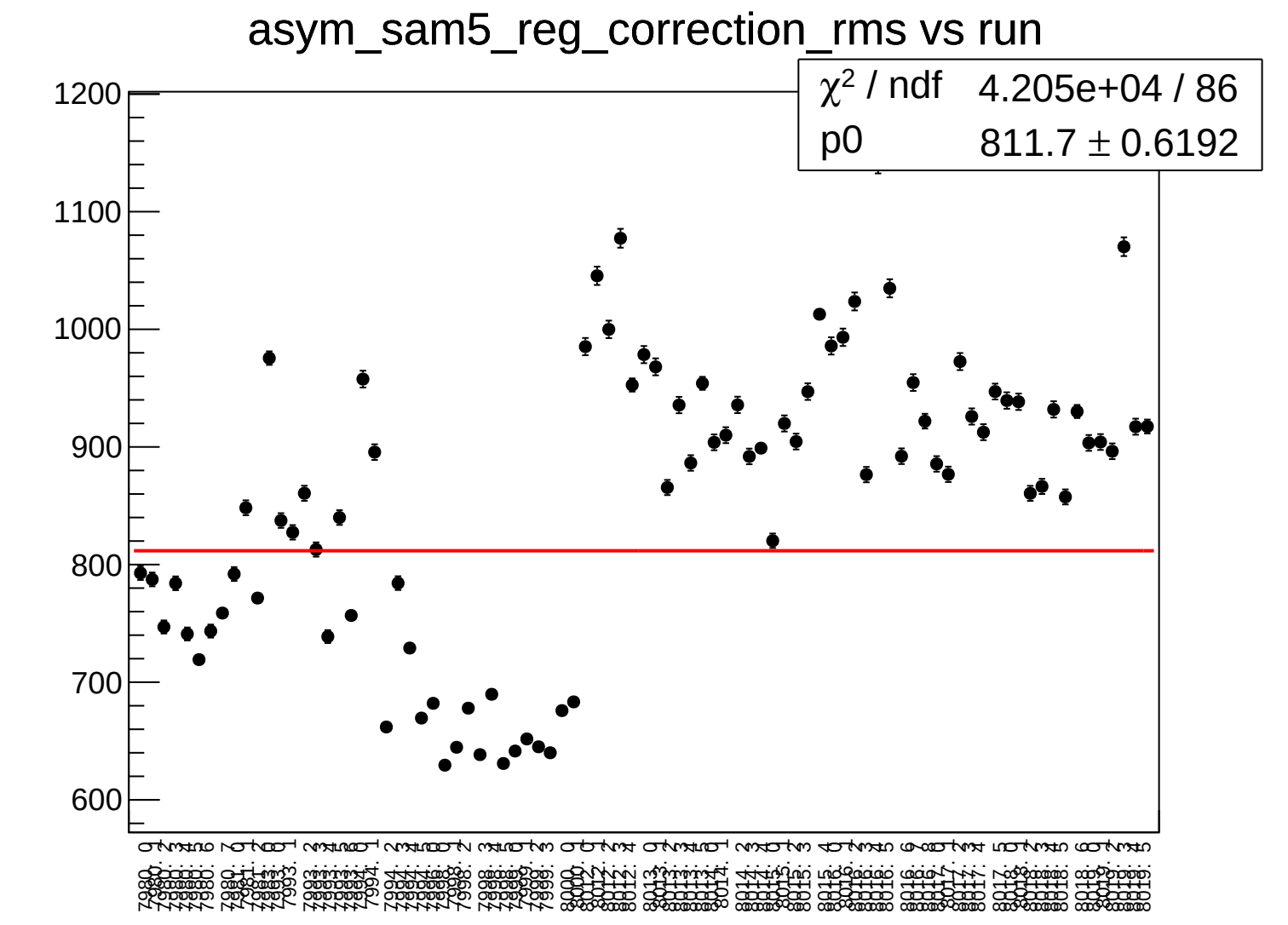

reg_asym_sam5_mean vs run
χ² / ndf 86.89 / 86
p0 237 ± 141.5
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 29.12
Std Dev 63.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

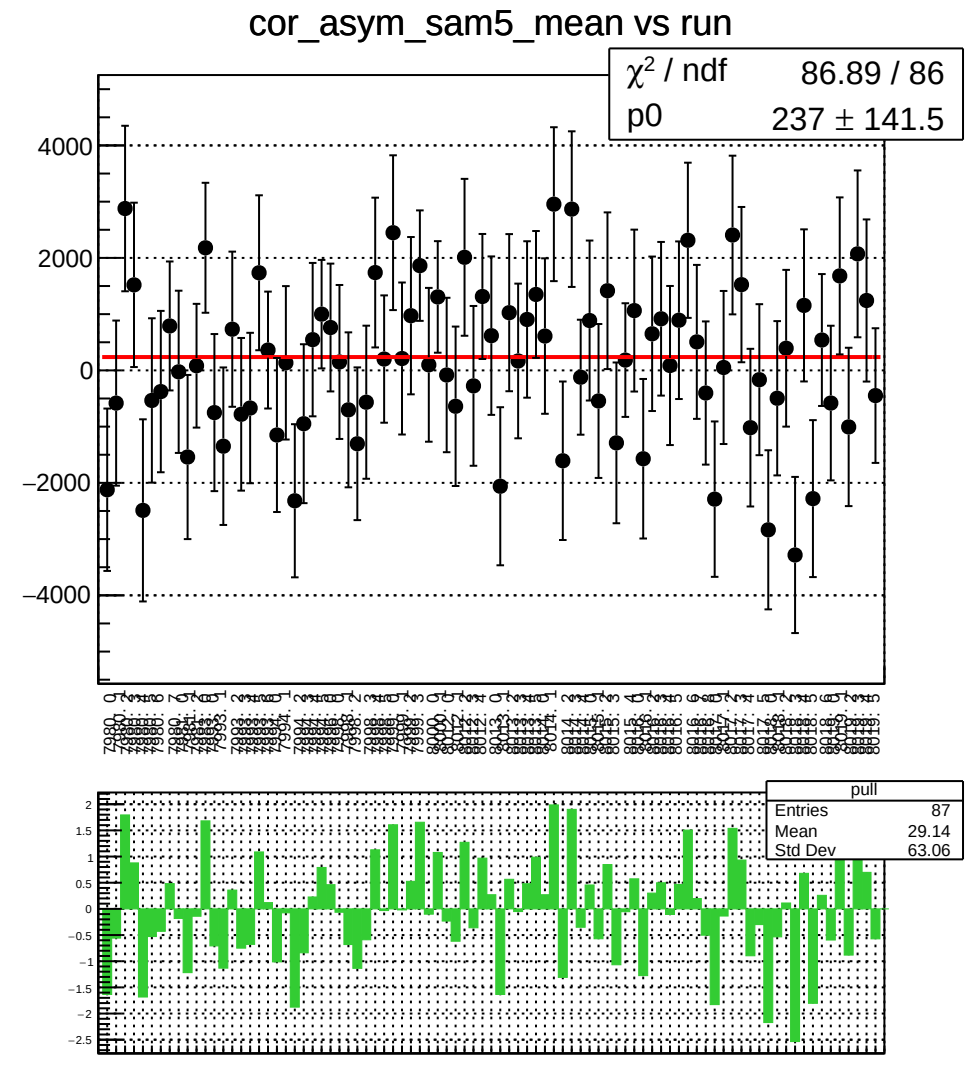

pull1D
Entries 87
Mean −0.02911
Std Dev 0.9989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

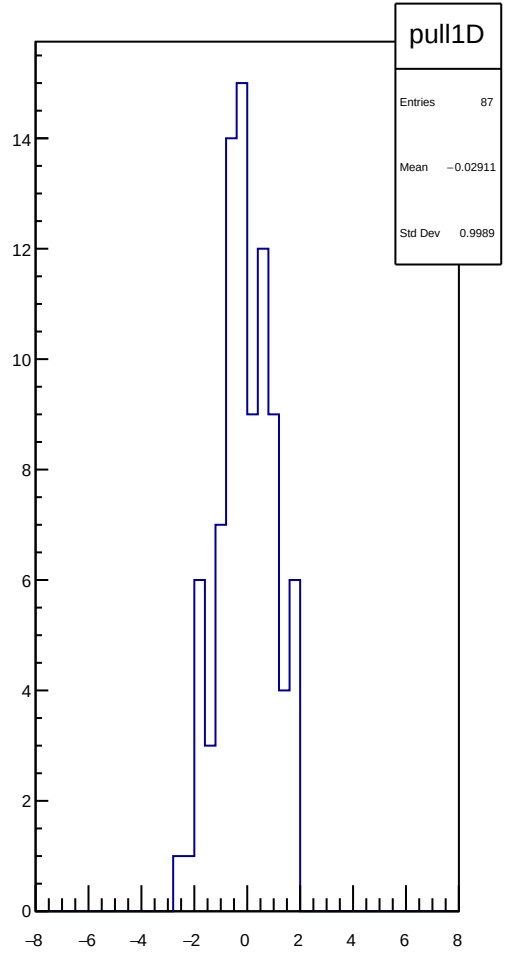

reg_asym_sam5_rms vs run
χ² / ndf 1586 / 86
p0 132.7 ± 0.1001
155
150
145
140
135
130
125

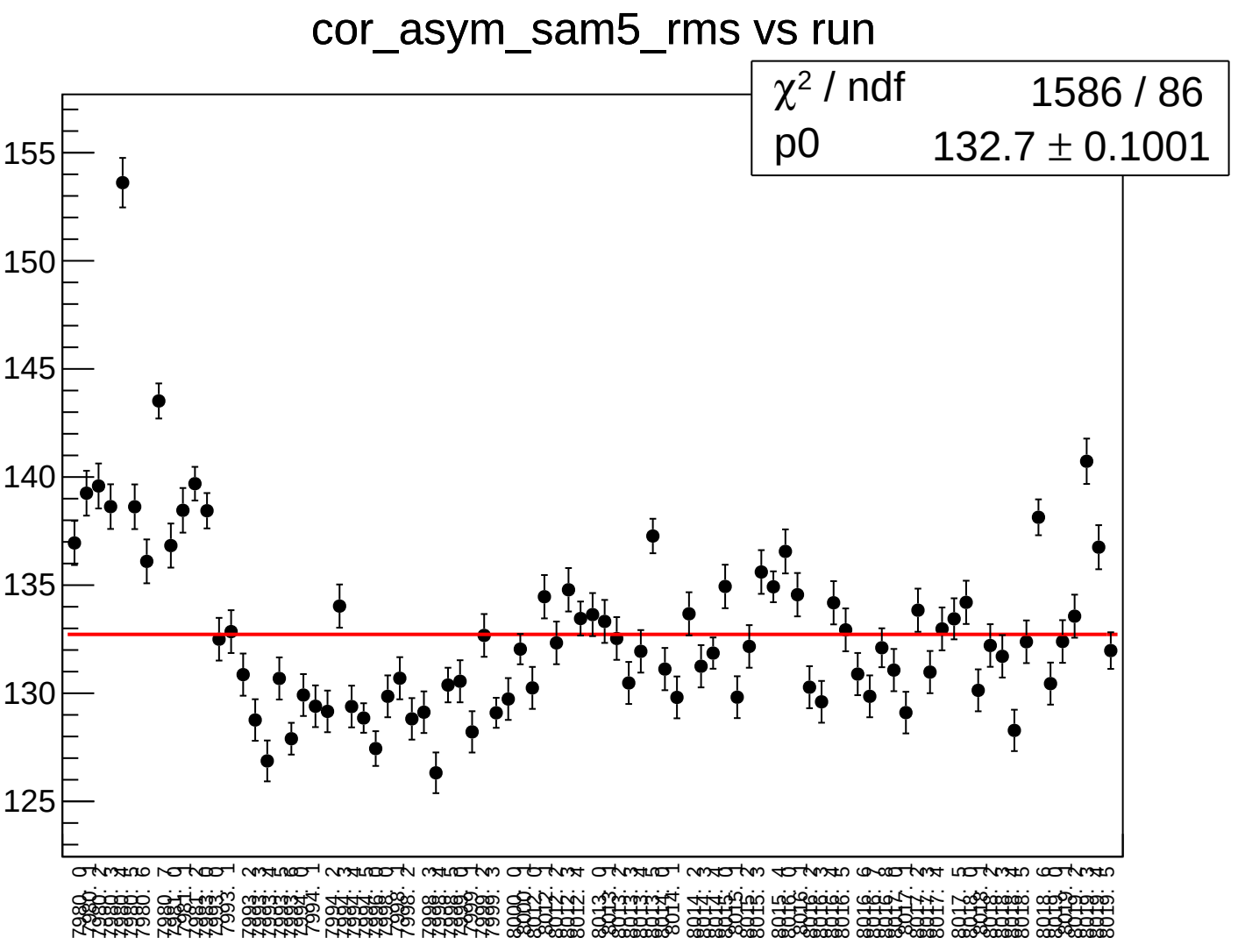

asym_sam5_reg_correction_mean vs run
χ² / ndf 76.37 / 86
p0 −1130 ± 875.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 33.12
Std Dev 39.39
2
1
0
−1
−2

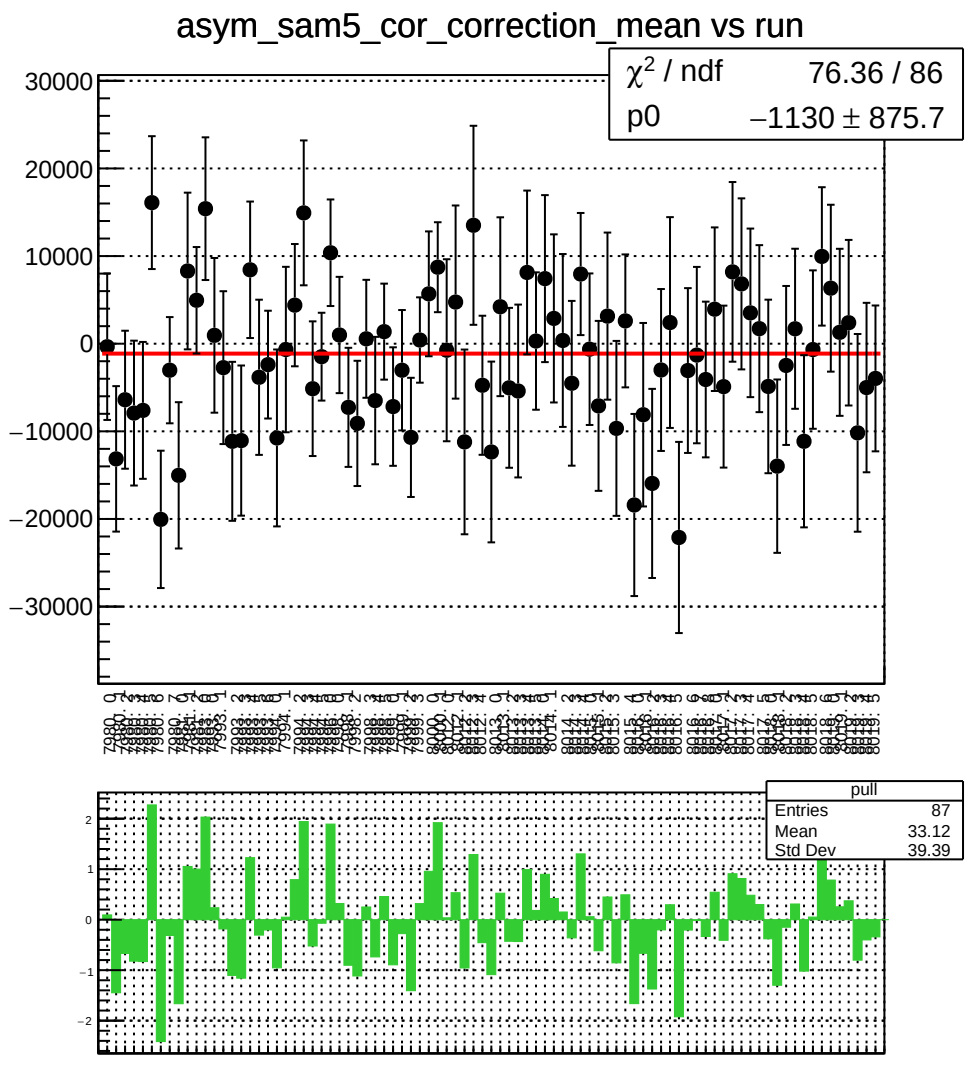

pull1D
Entries 87
Mean −0.04231
Std Dev 0.9359
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

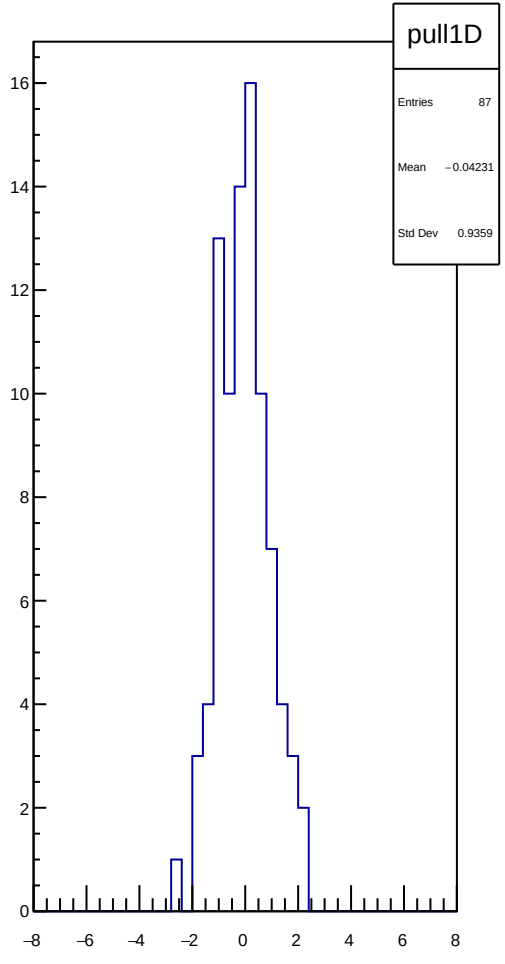

asym_sam5_reg_correction_rms vs run
χ² / ndf 4.205e+04 / 86
p0 811.7 ± 0.6192
1200
1100
1000
900
800
700
600

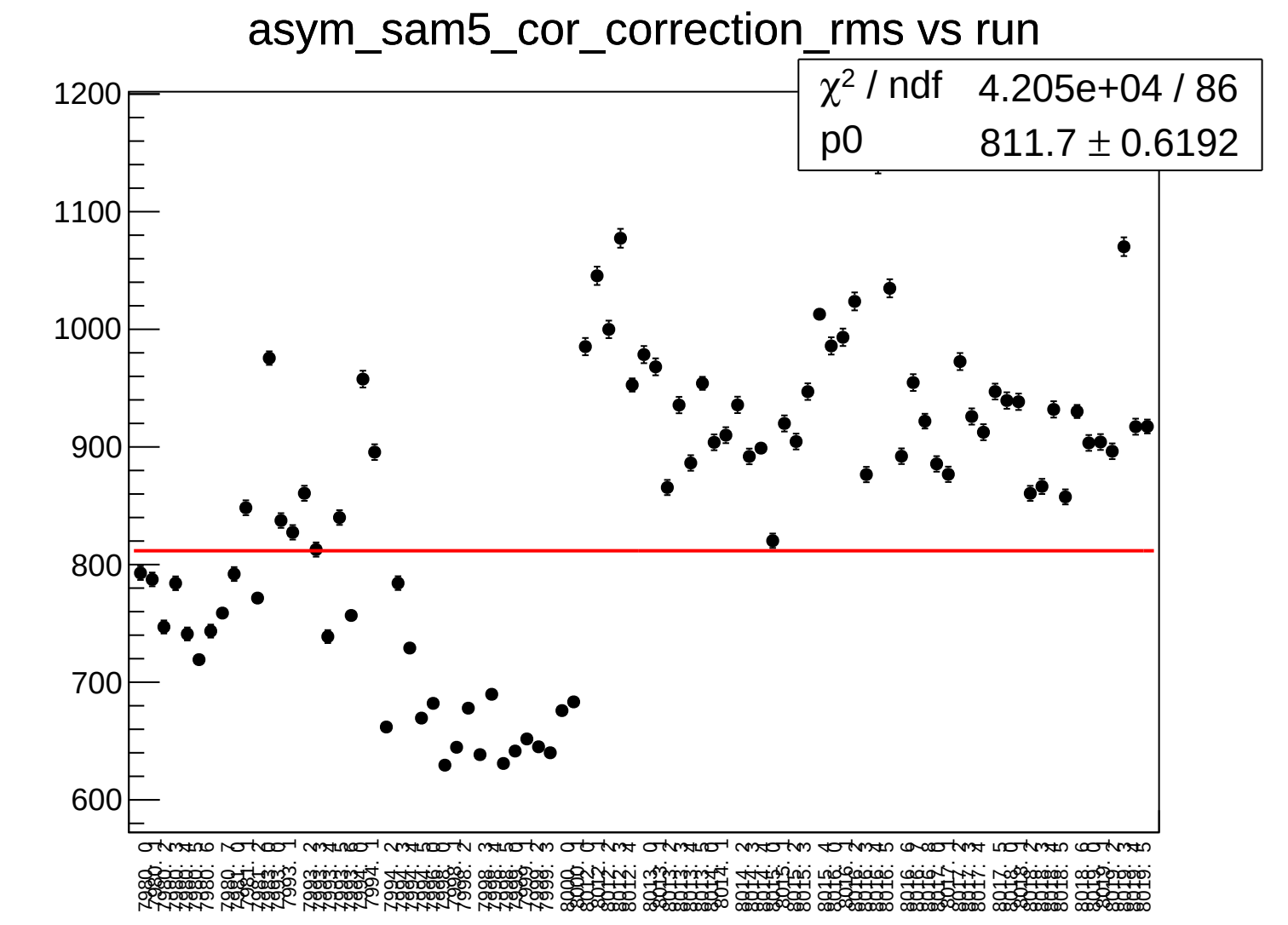

cor_asym_sam5_mean vs run
χ² / ndf 86.89 / 86
p0 237 ± 141.5
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 29.14
Std Dev 63.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

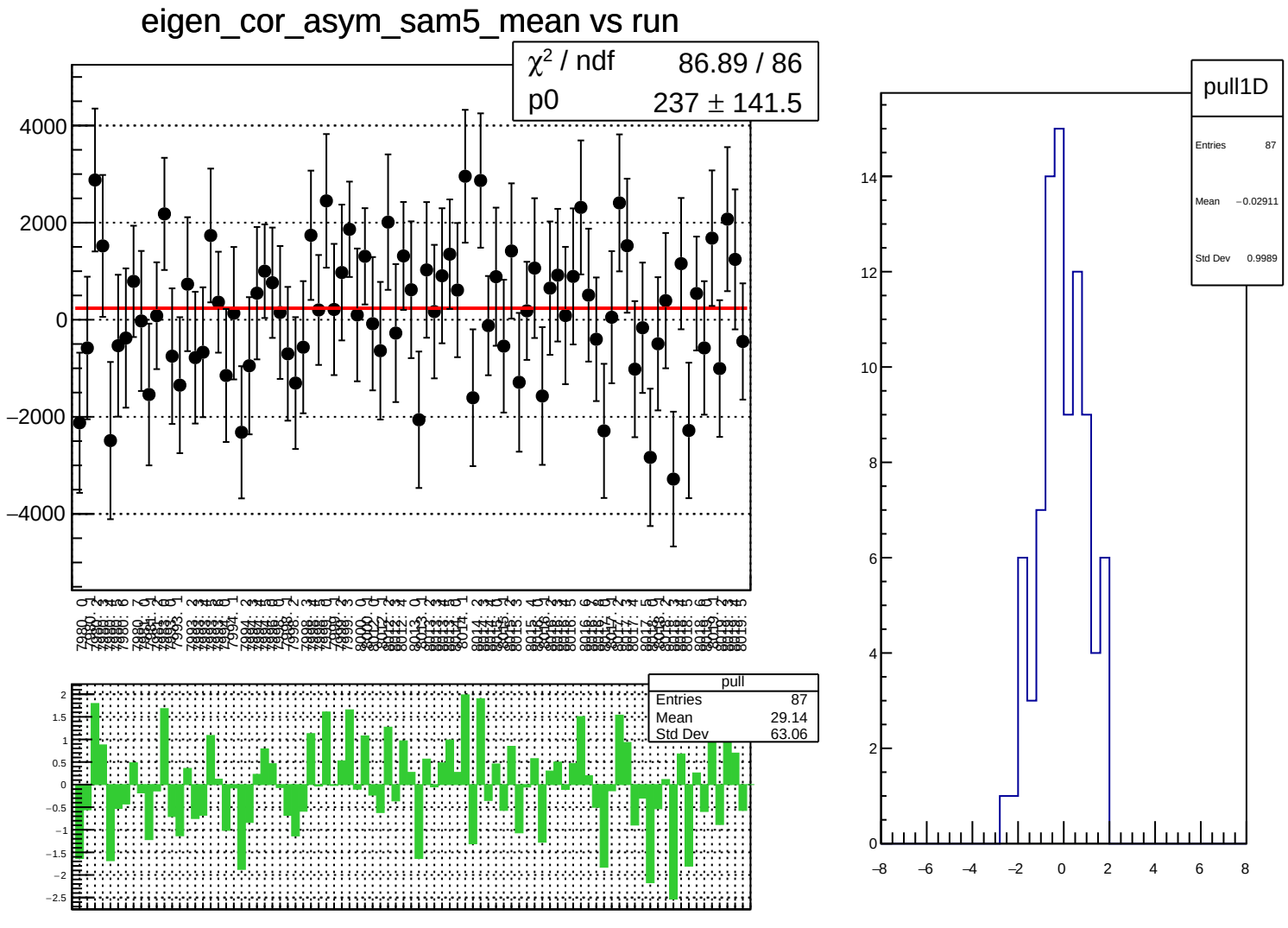

pull1D
Entries 87
Mean −0.02911
Std Dev 0.9989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

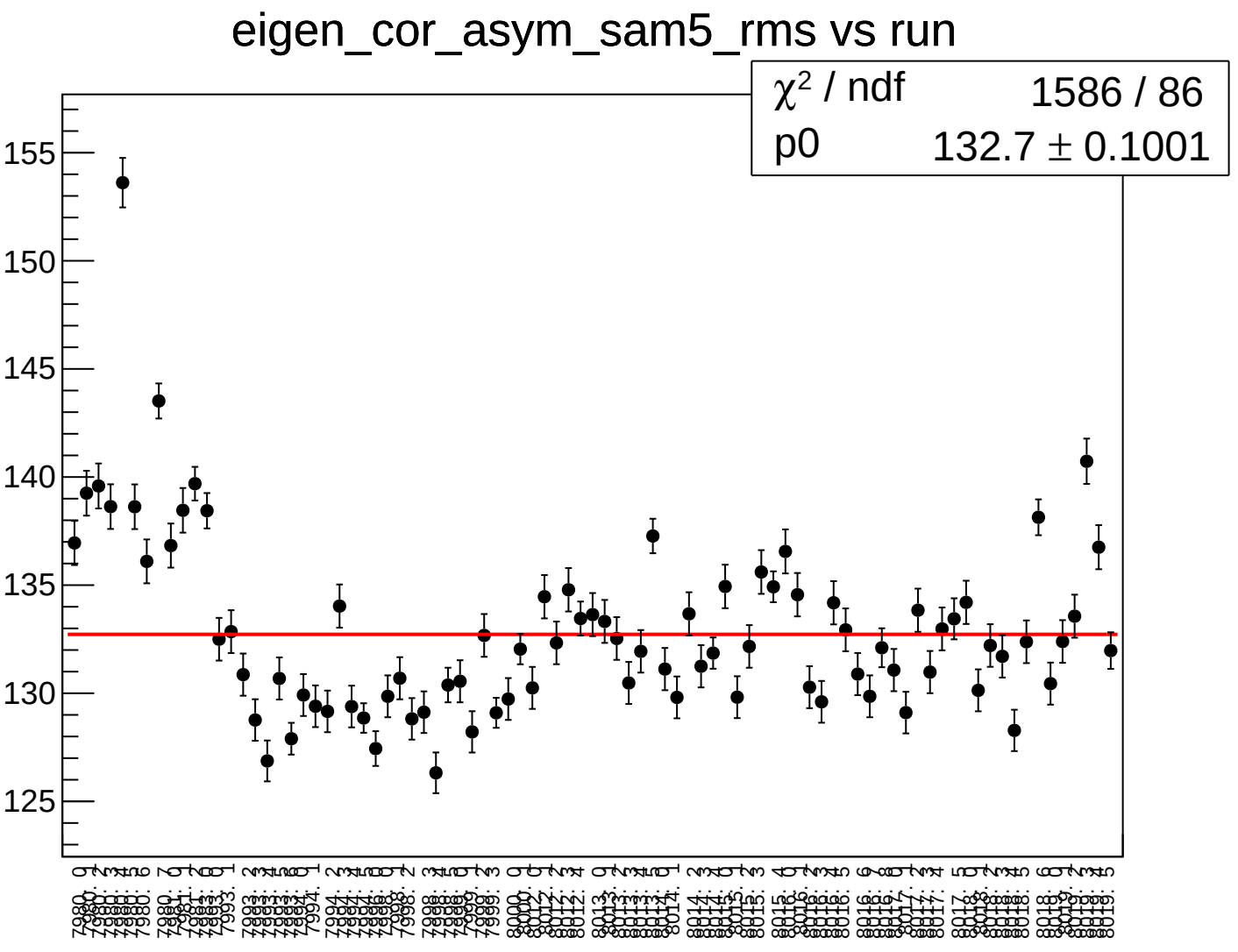

cor_asym_sam5_rms vs run
χ² / ndf 1586 / 86
p0 132.7 ± 0.1001
155
150
145
140
135
130
125

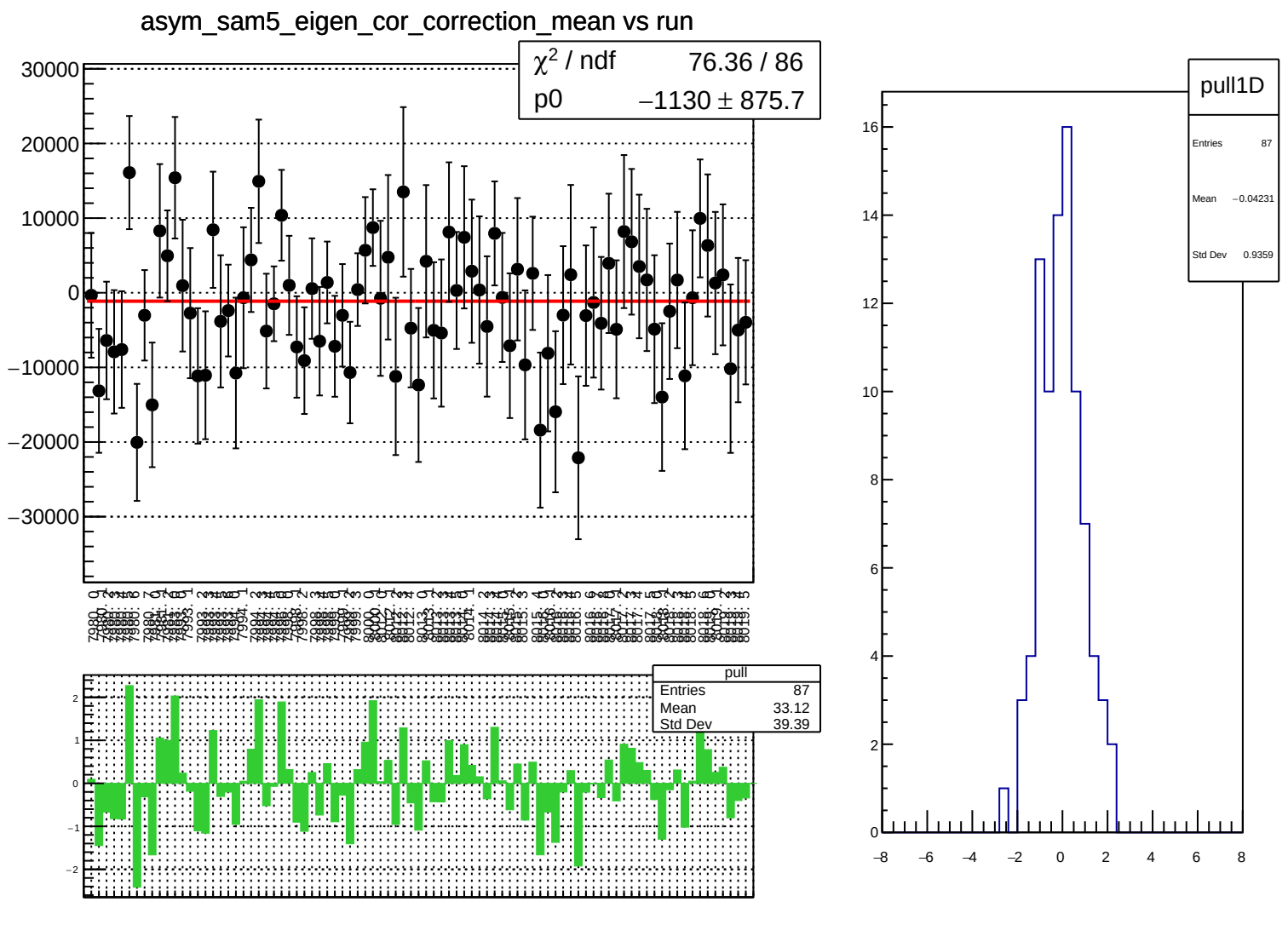

asym_sam5_cor_correction_mean vs run
χ² / ndf 76.36 / 86
p0 −1130 ± 875.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 33.12
Std Dev 39.39
2
1
0
−1
−2

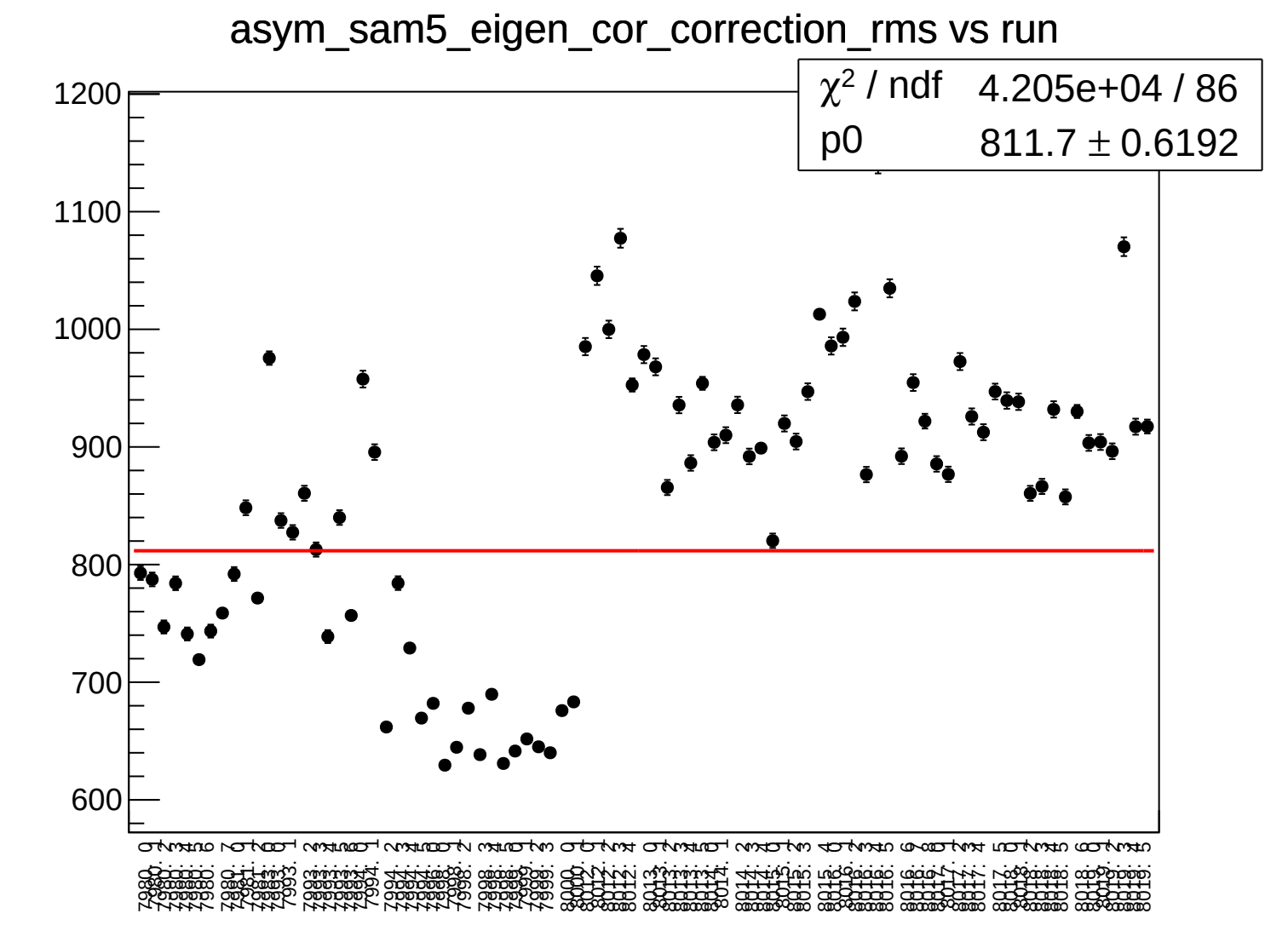

pull1D
Entries 87
Mean −0.04231
Std Dev 0.9359
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

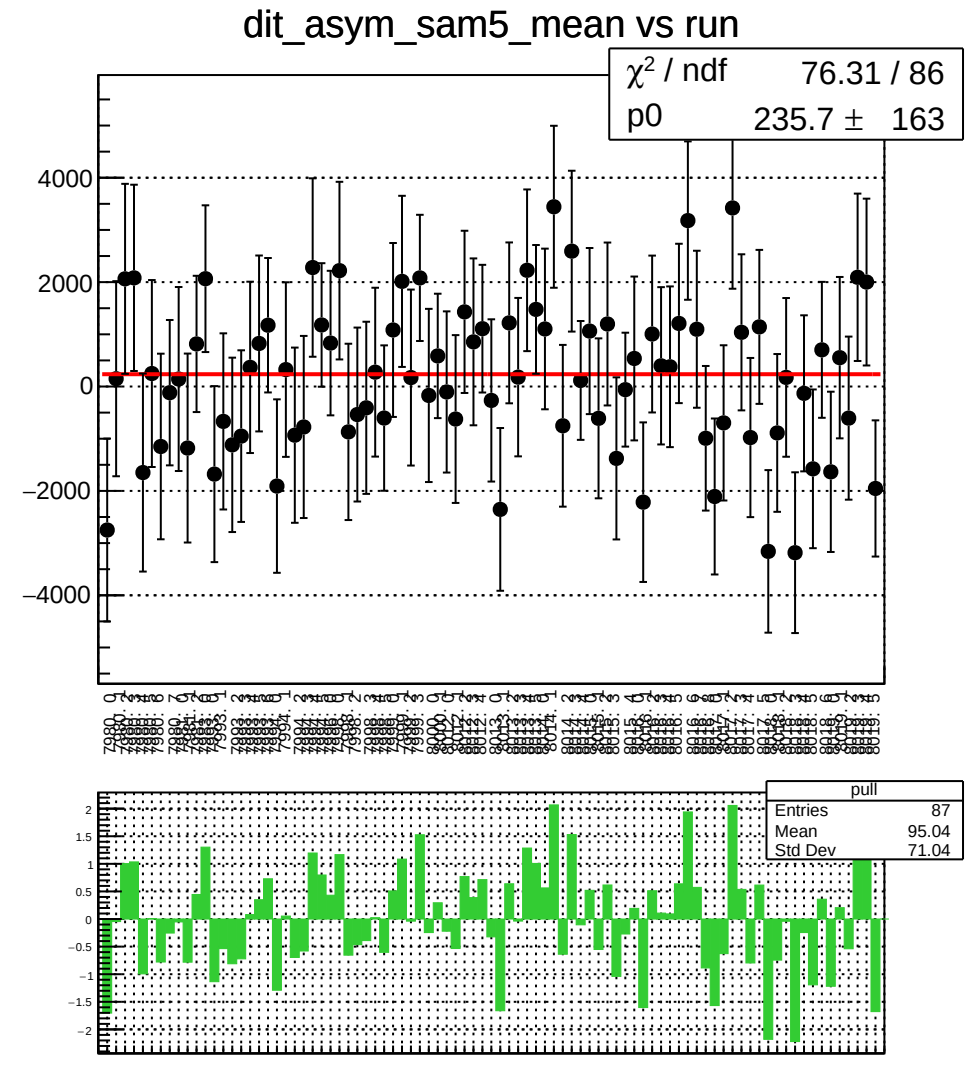

asym_sam5_cor_correction_rms vs run
χ² / ndf 4.205e+04 / 86
p0 811.7 ± 0.6192
1200
1100
1000
900
800
700
600

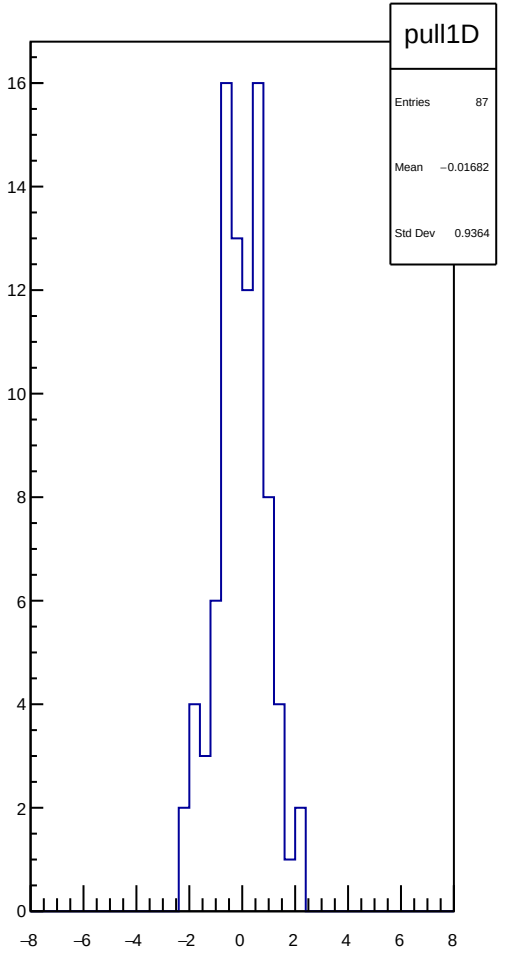

eigen_cor_asym_sam5_mean vs run
χ² / ndf 86.89 / 86
p0 237 ± 141.5
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 29.14
Std Dev 63.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 87
Mean −0.02911
Std Dev 0.9989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

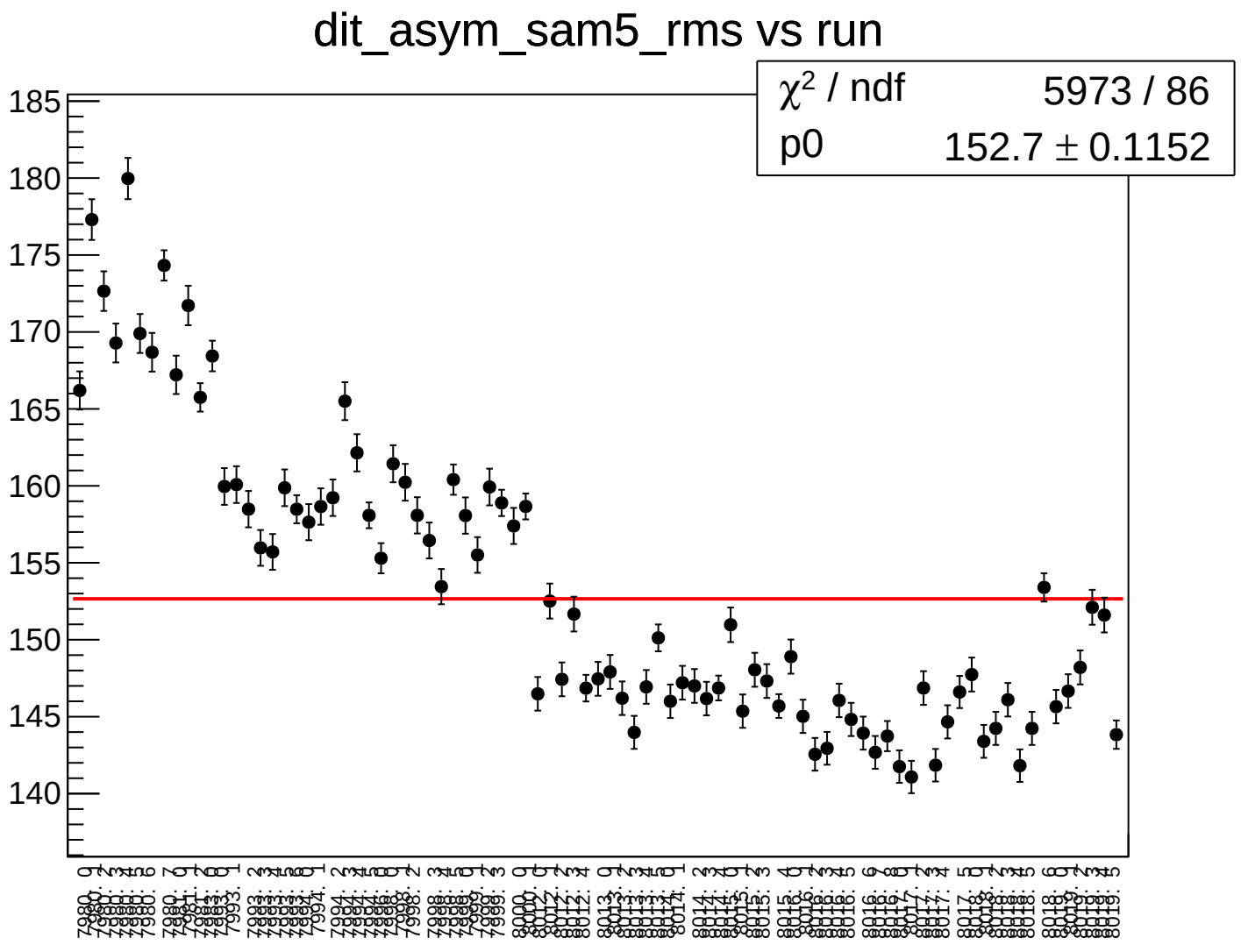

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1586 / 86
p0 132.7 ± 0.1001
155
150
145
140
135
130
125

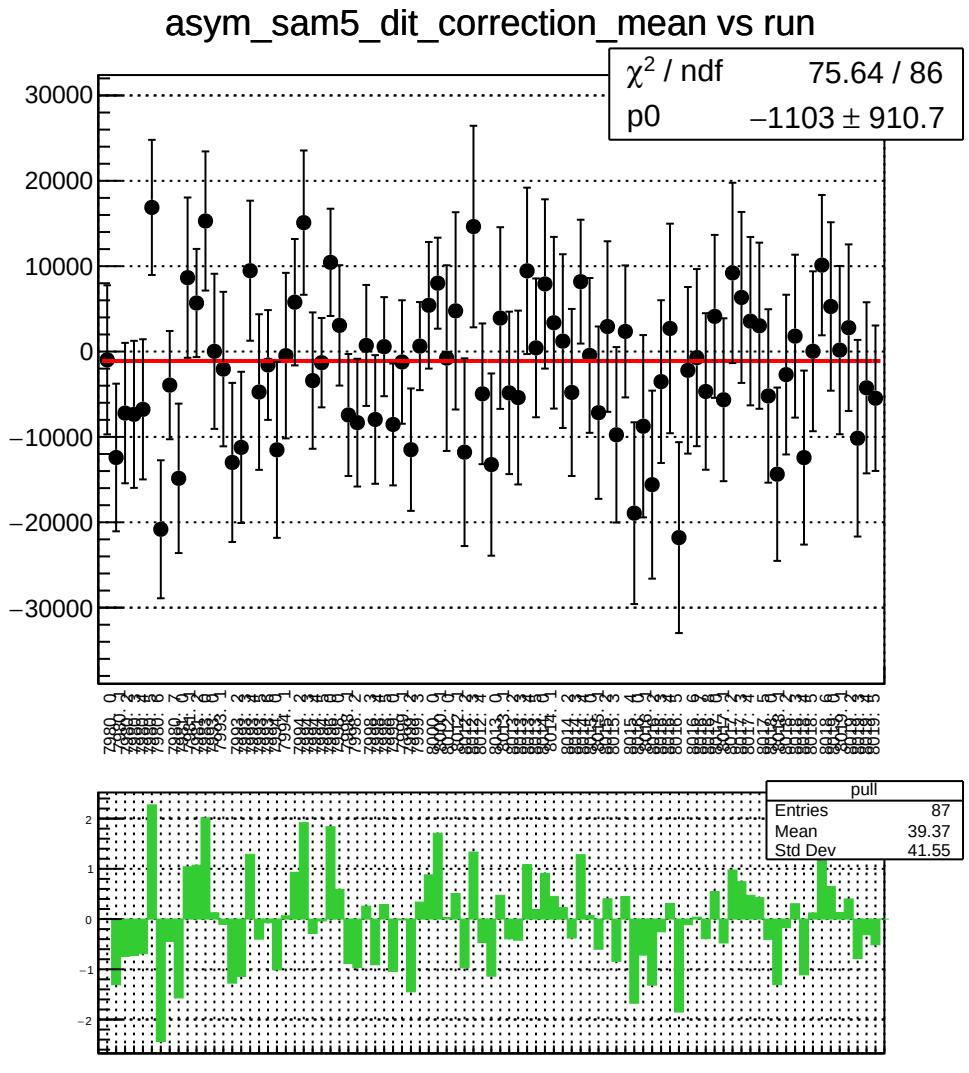

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 76.36 / 86
p0 −1130 ± 875.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 33.12
Std Dev 39.39
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.04231
Std Dev 0.9359
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

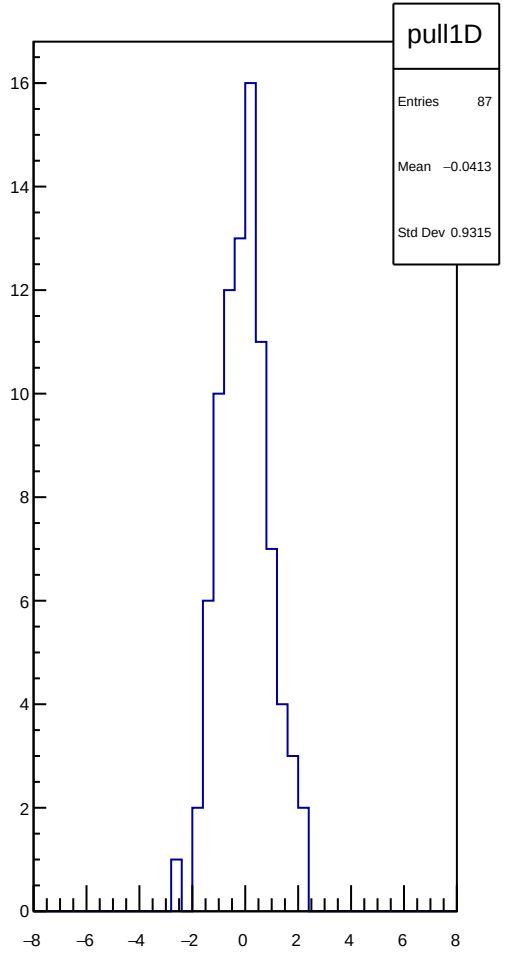

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 4.205e+04 / 86
p0 811.7 ± 0.6192
1200
1100
1000
900
800
700
600

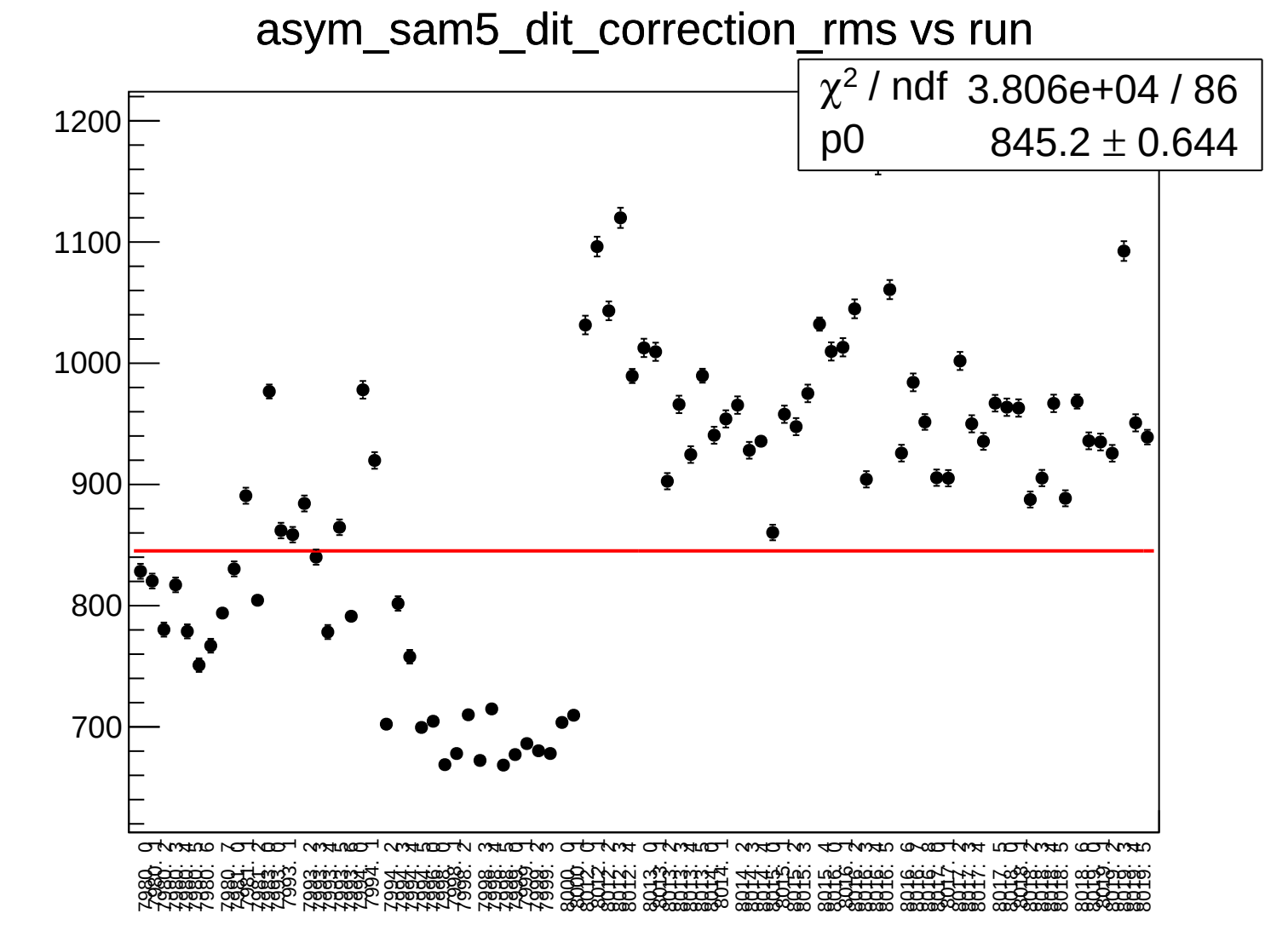

dit_asym_sam5_mean vs run
χ² / ndf 76.31 / 86
p0 235.7 ± 163
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 95.04
Std Dev 71.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

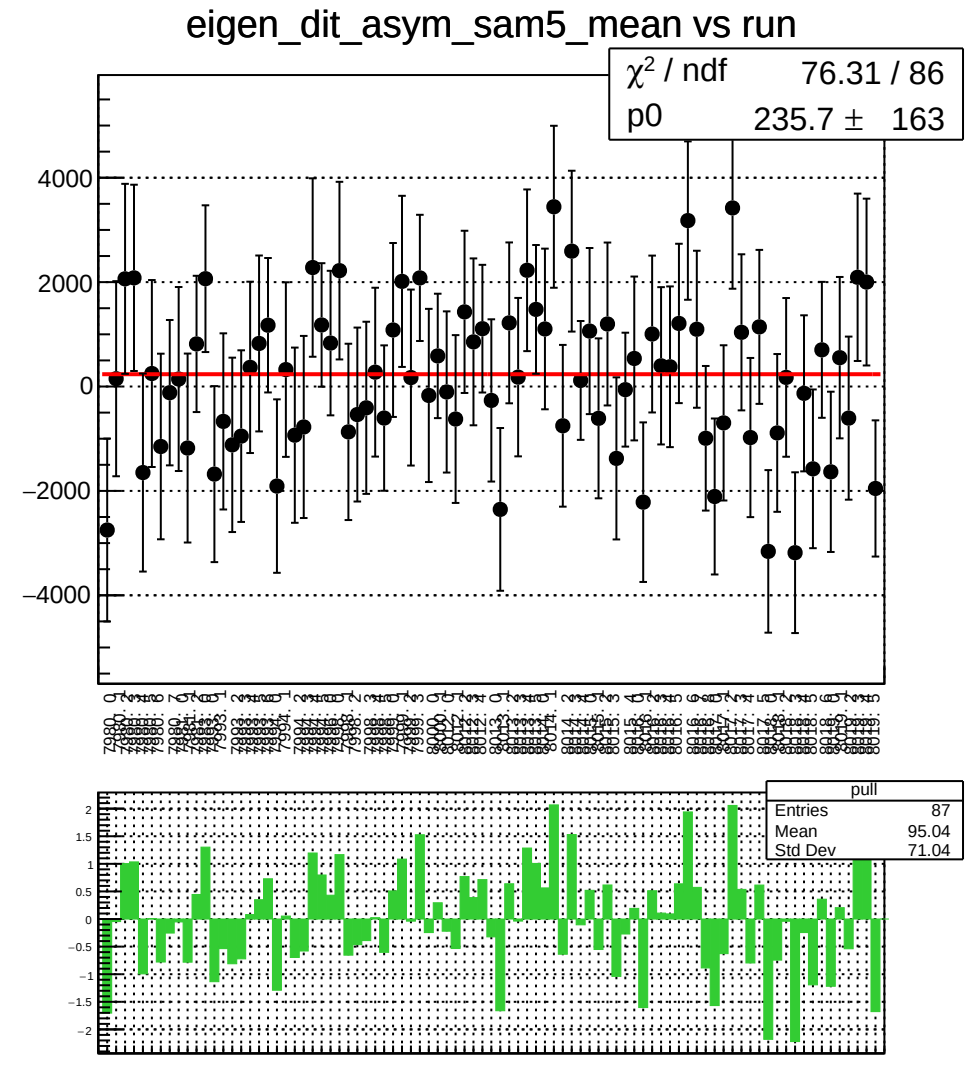

pull1D
Entries 87
Mean −0.01682
Std Dev 0.9364
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

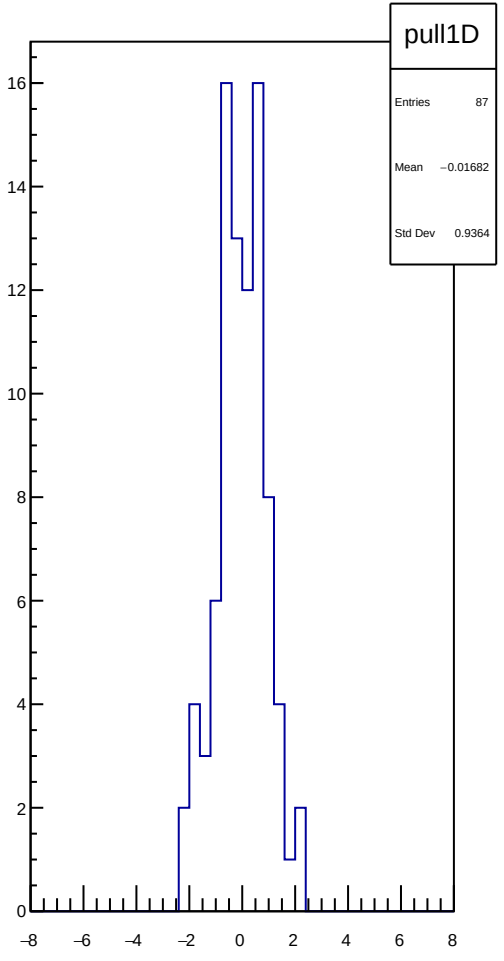

dit_asym_sam5_rms vs run
χ² / ndf 5973 / 86
p0 152.7 ± 0.1152
185
180
175
170
165
160
155
150
145
140

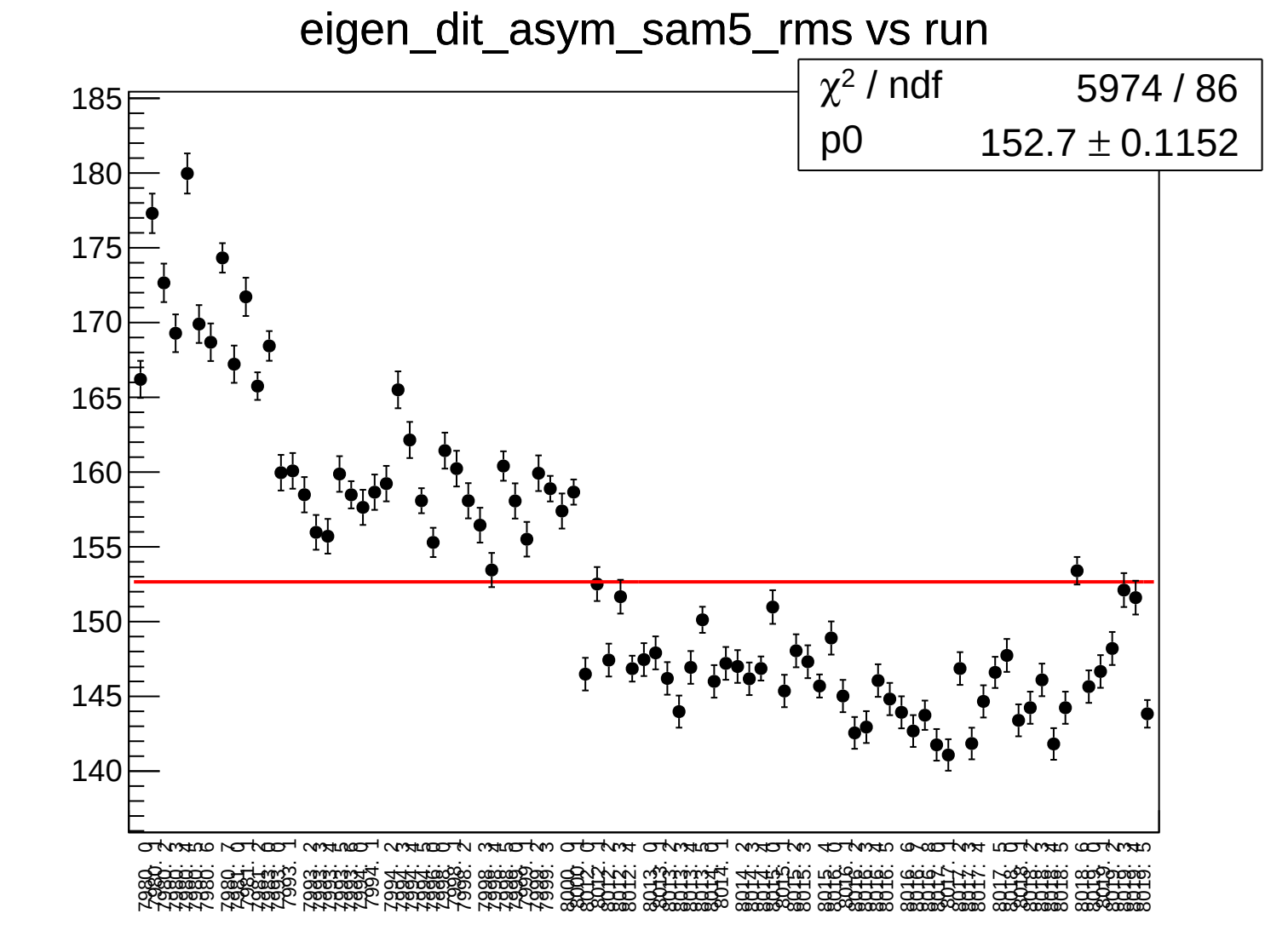

asym_sam5_dit_correction_mean vs run
χ² / ndf 75.64 / 86
p0 −1103 ± 910.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 39.37
Std Dev 41.55
2
1
0
−1
−2

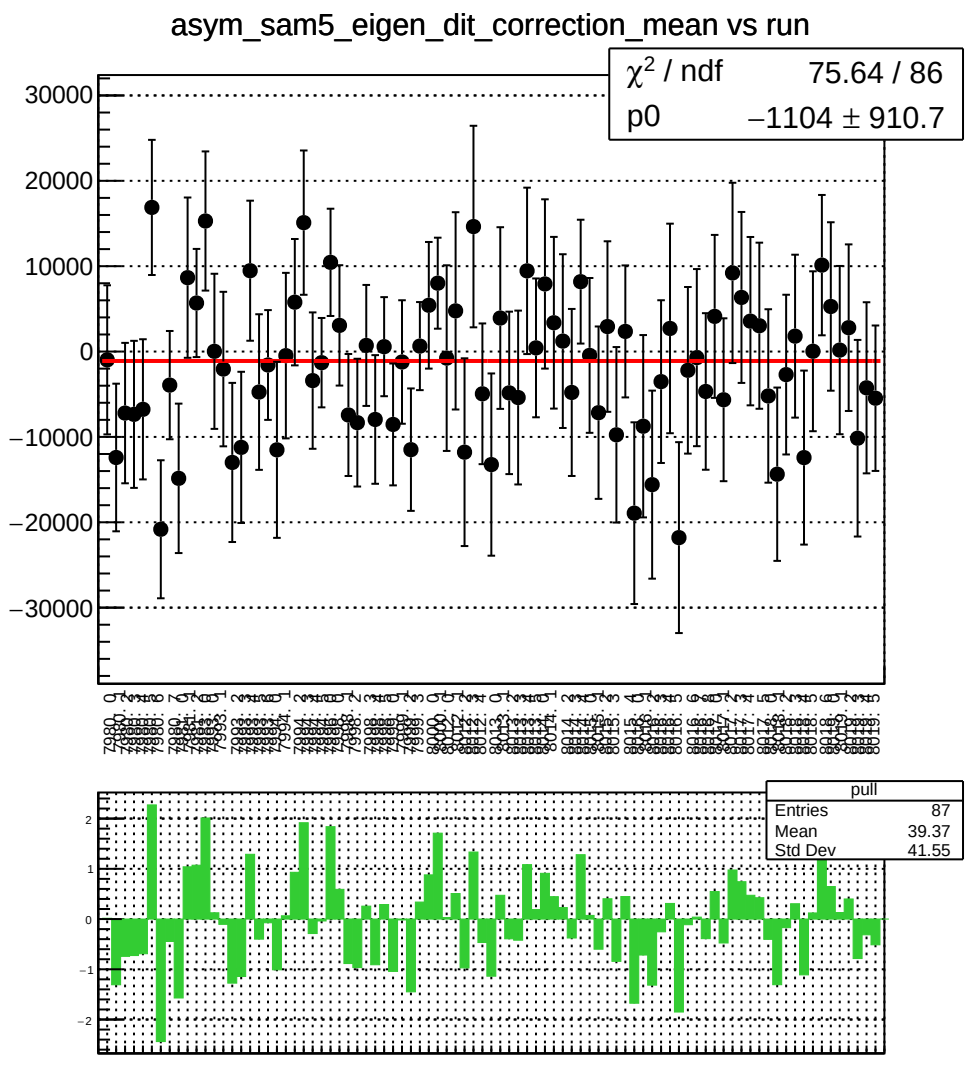

pull1D
Entries 87
Mean −0.0413
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

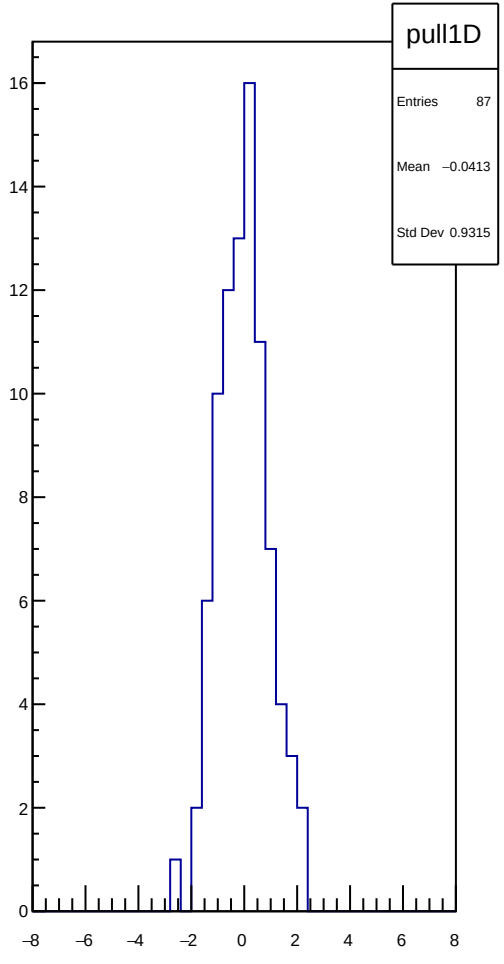

asym_sam5_dit_correction_rms vs run
χ² / ndf 3.806e+04 / 86
p0 845.2 ± 0.644
1200
1100
1000
900
800
700

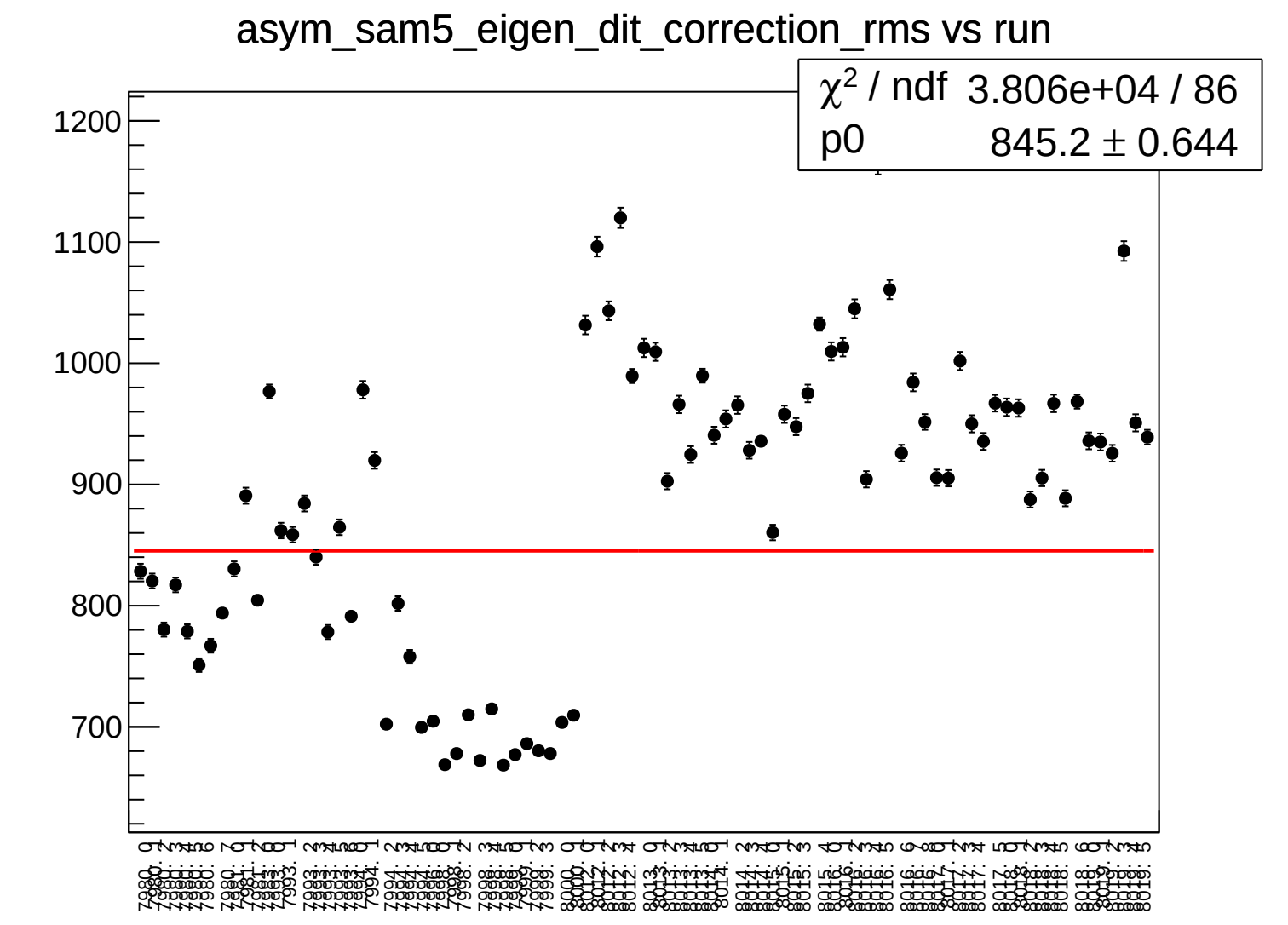

eigen_dit_asym_sam5_mean vs run
χ² / ndf 76.31 / 86
p0 235.7 ± 163
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 95.04
Std Dev 71.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

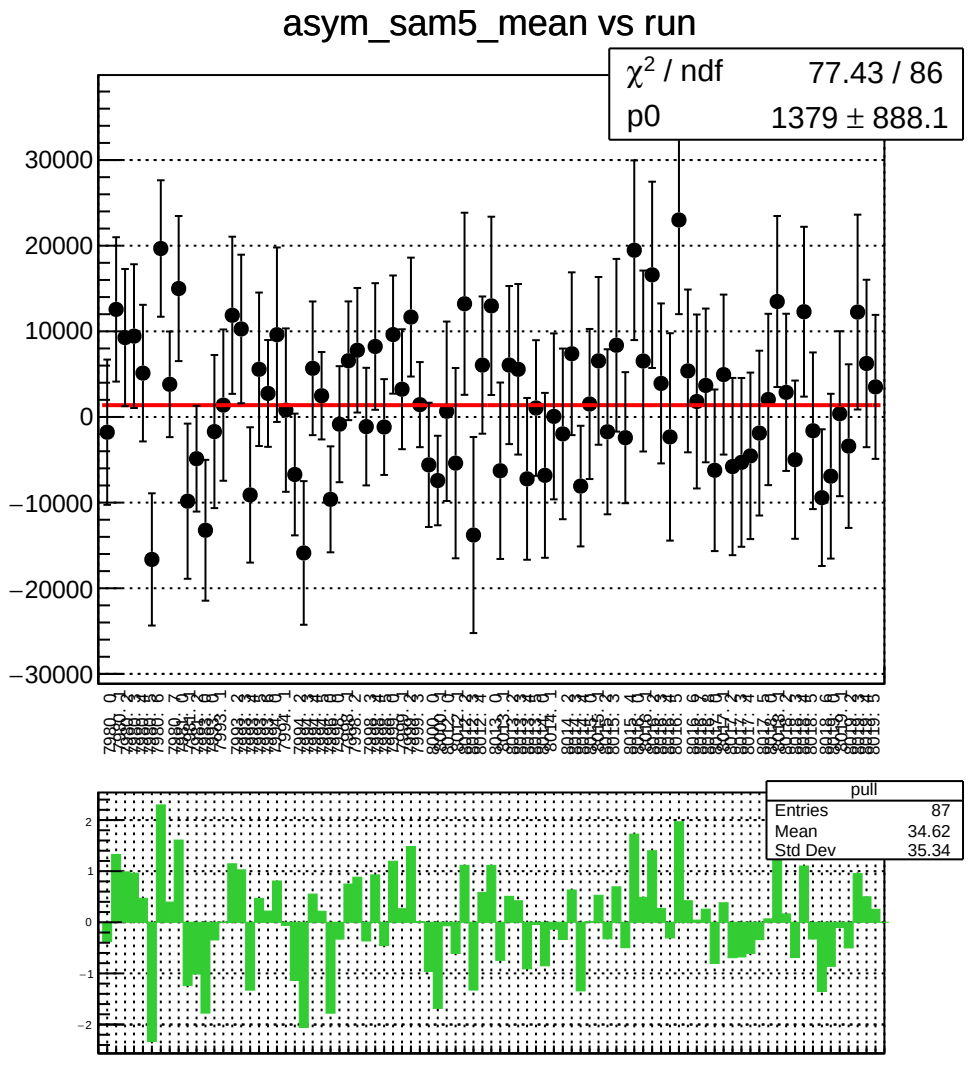

pull1D
Entries 87
Mean −0.01682
Std Dev 0.9364
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

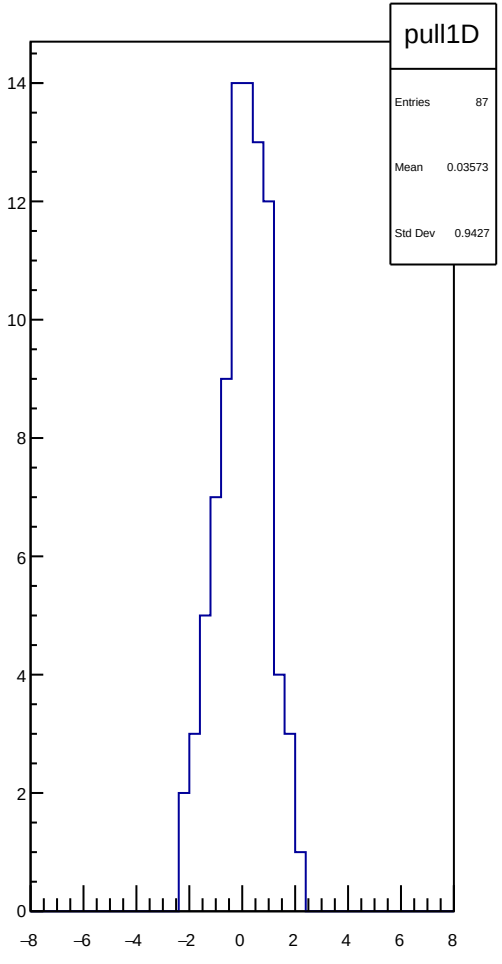

eigen_dit_asym_sam5_rms vs run
χ² / ndf 5974 / 86
p0 152.7 ± 0.1152
185
180
175
170
165
160
155
150
145
140

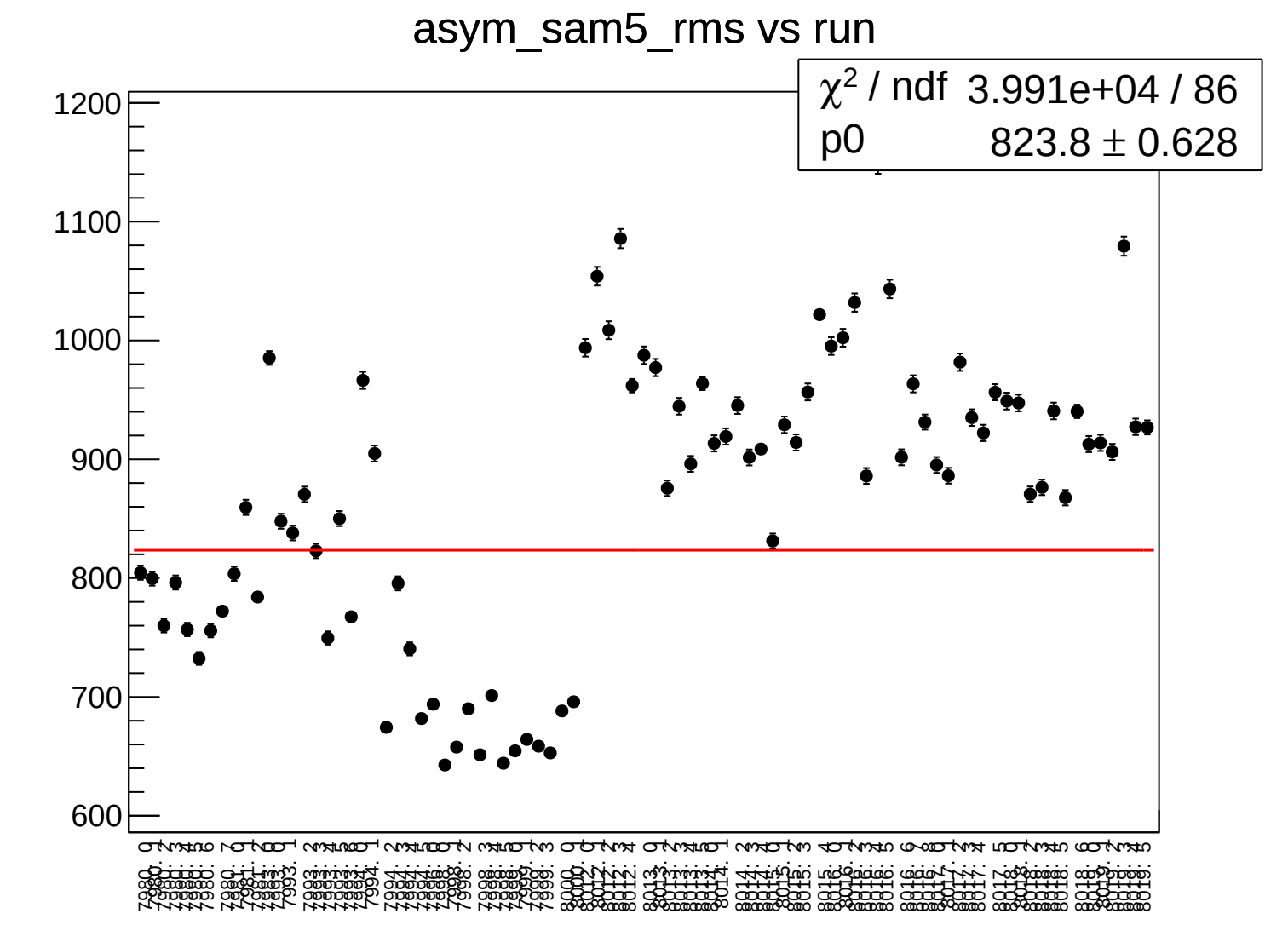

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 75.64 / 86
p0 −1104 ± 910.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 39.37
Std Dev 41.55
2
1
0
−1
−2

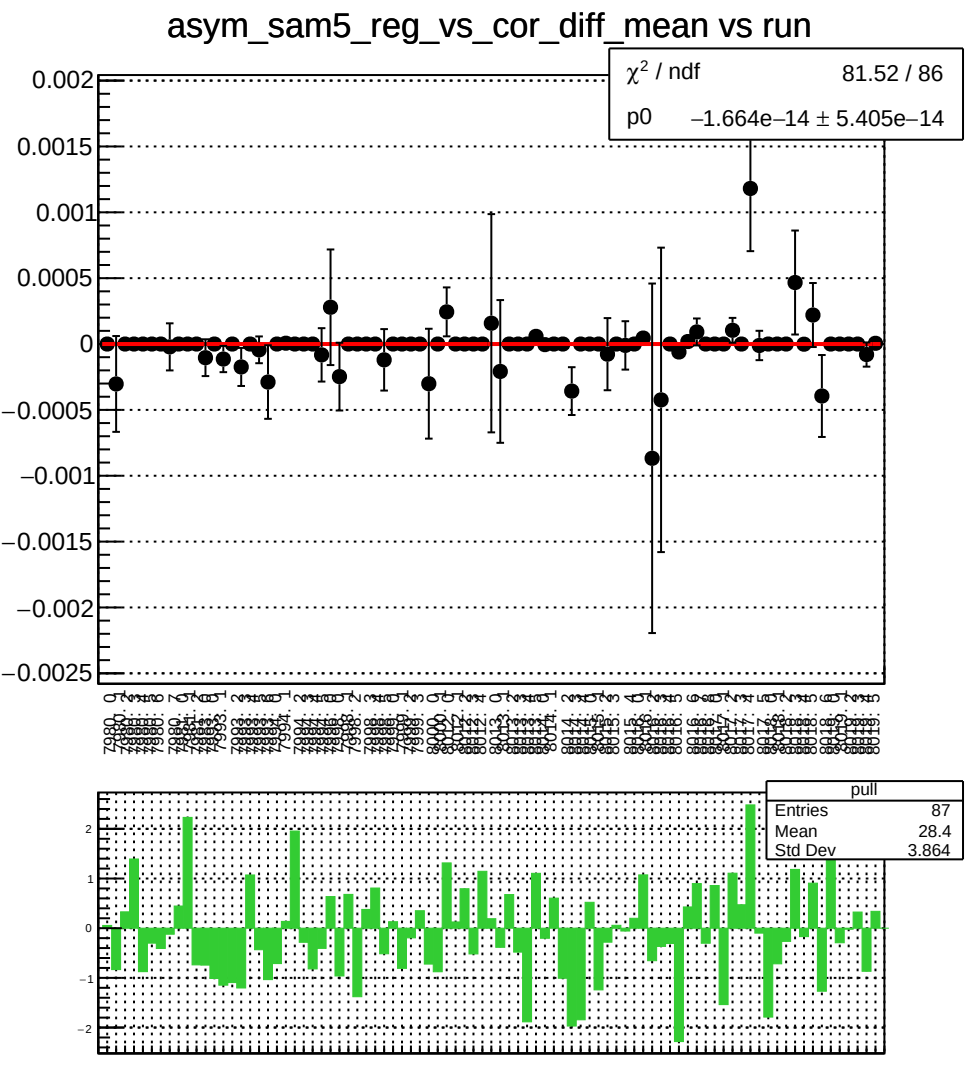

pull1D
Entries 87
Mean −0.0413
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

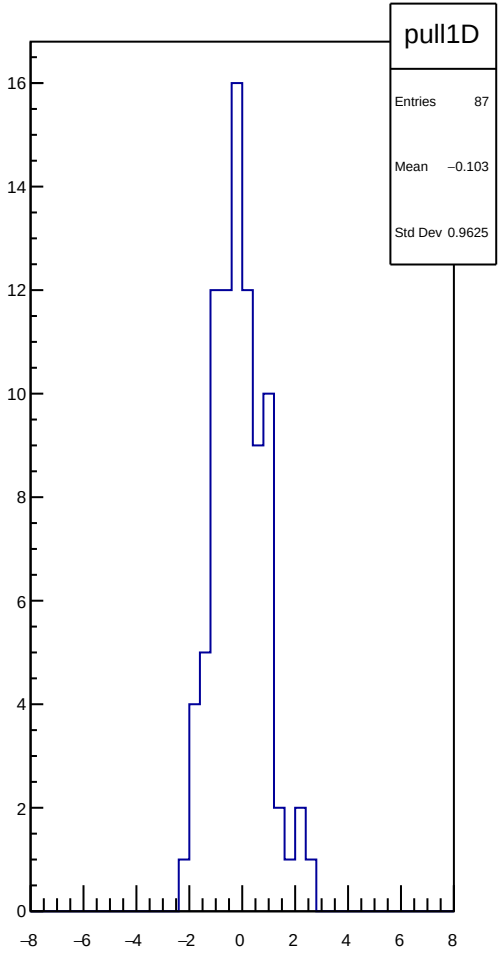

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 3.806e+04 / 86
p0 845.2 ± 0.644
1200
1100
1000
900
800
700

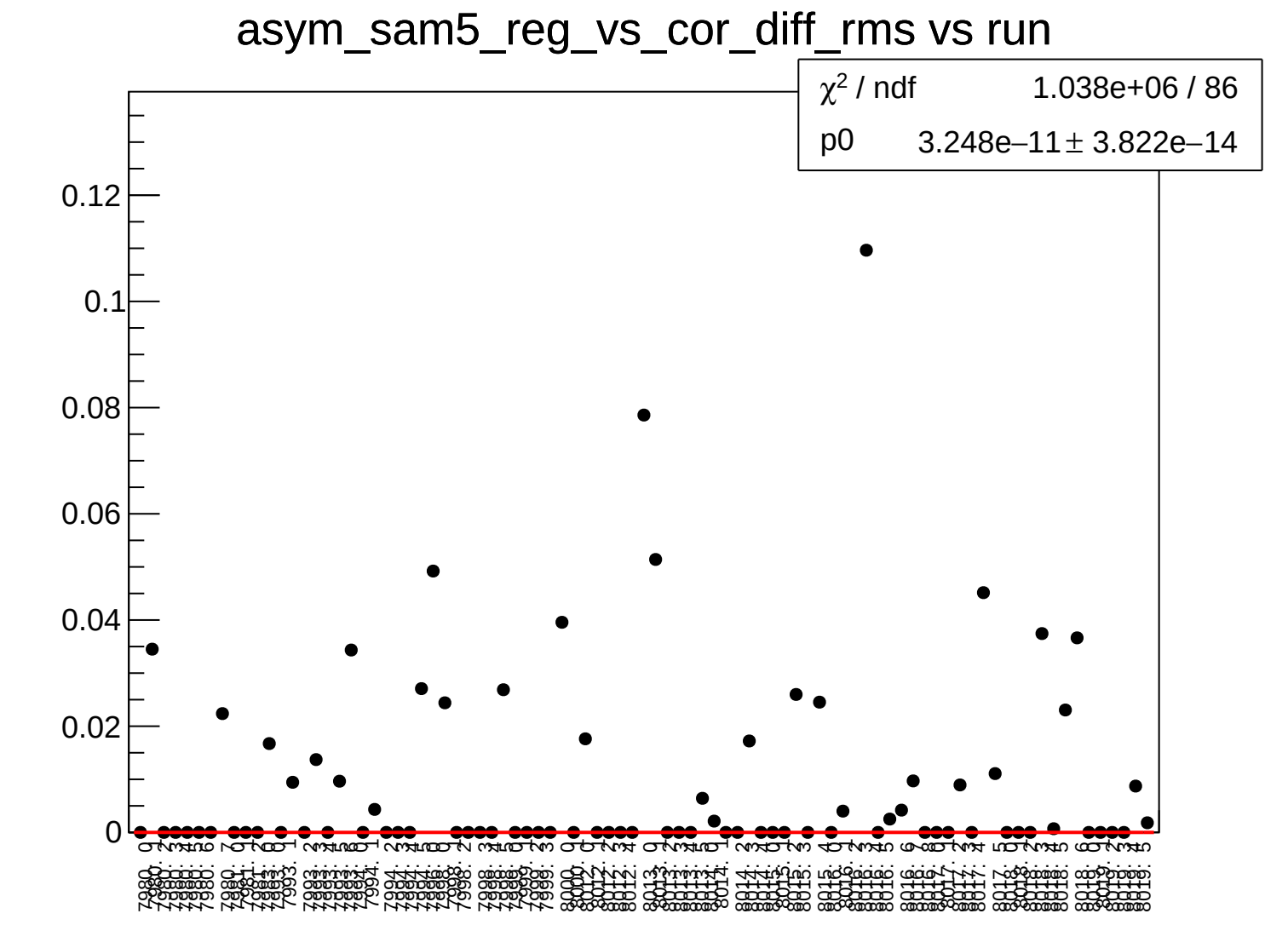

asym_sam5_mean vs run
χ² / ndf 77.43 / 86
p0 1379 ± 888.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 34.62
Std Dev 35.34
2
1
0
−1
−2

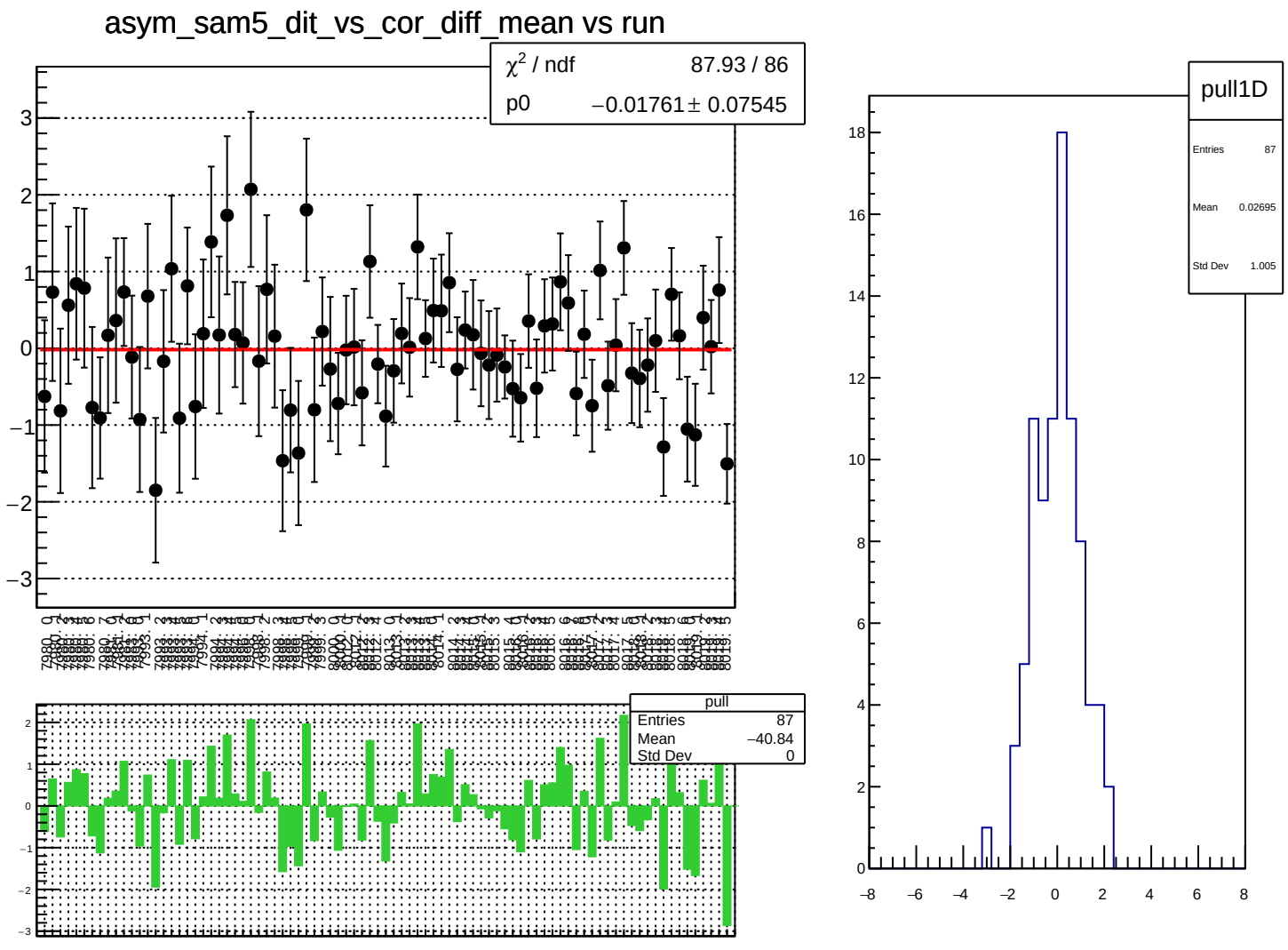

pull1D
Entries 87
Mean 0.03573
Std Dev 0.9427
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

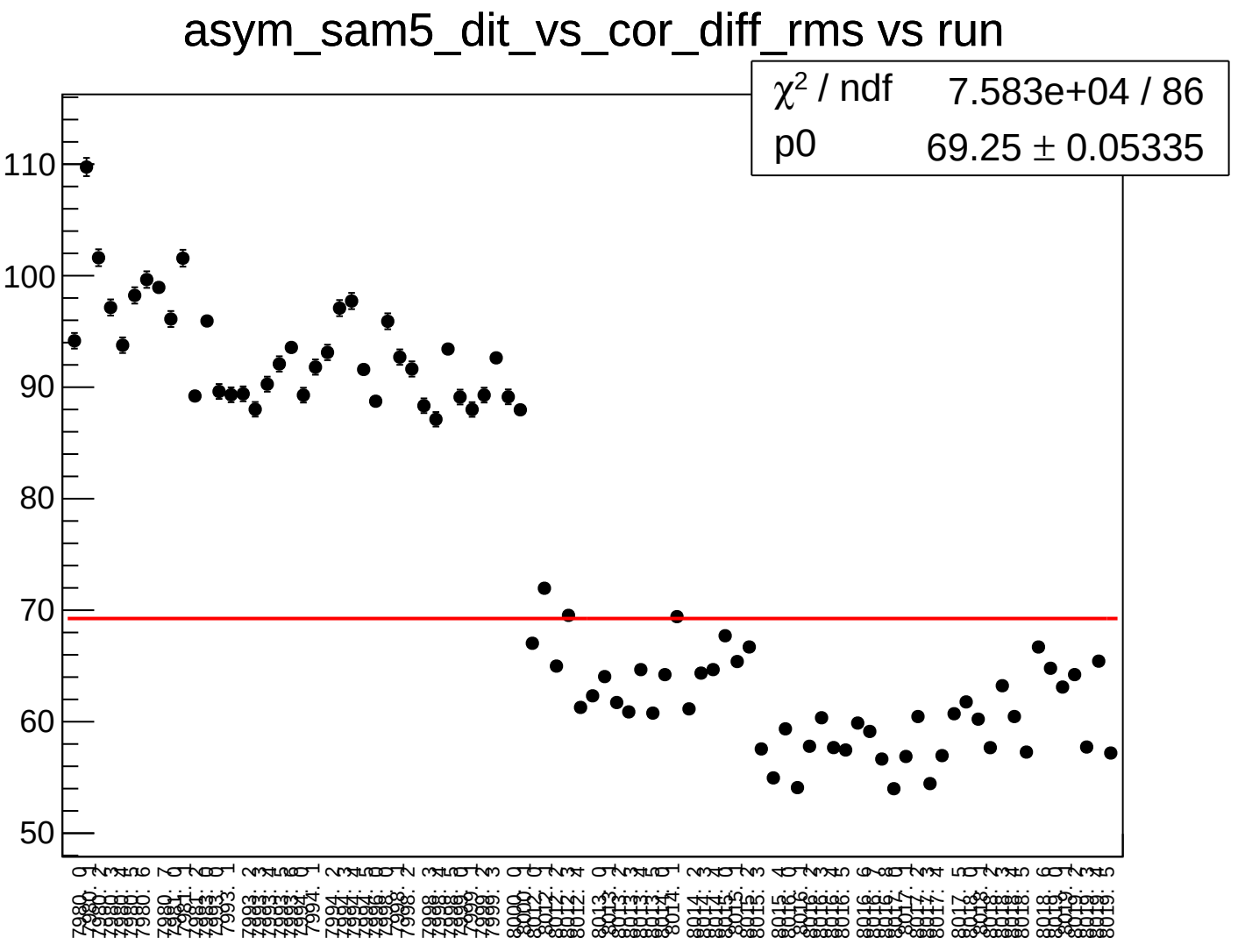

asym_sam5_rms vs run
χ² / ndf 3.991e+04 / 86
p0 823.8 ± 0.628
1200
1100
1000
900
800
700
600

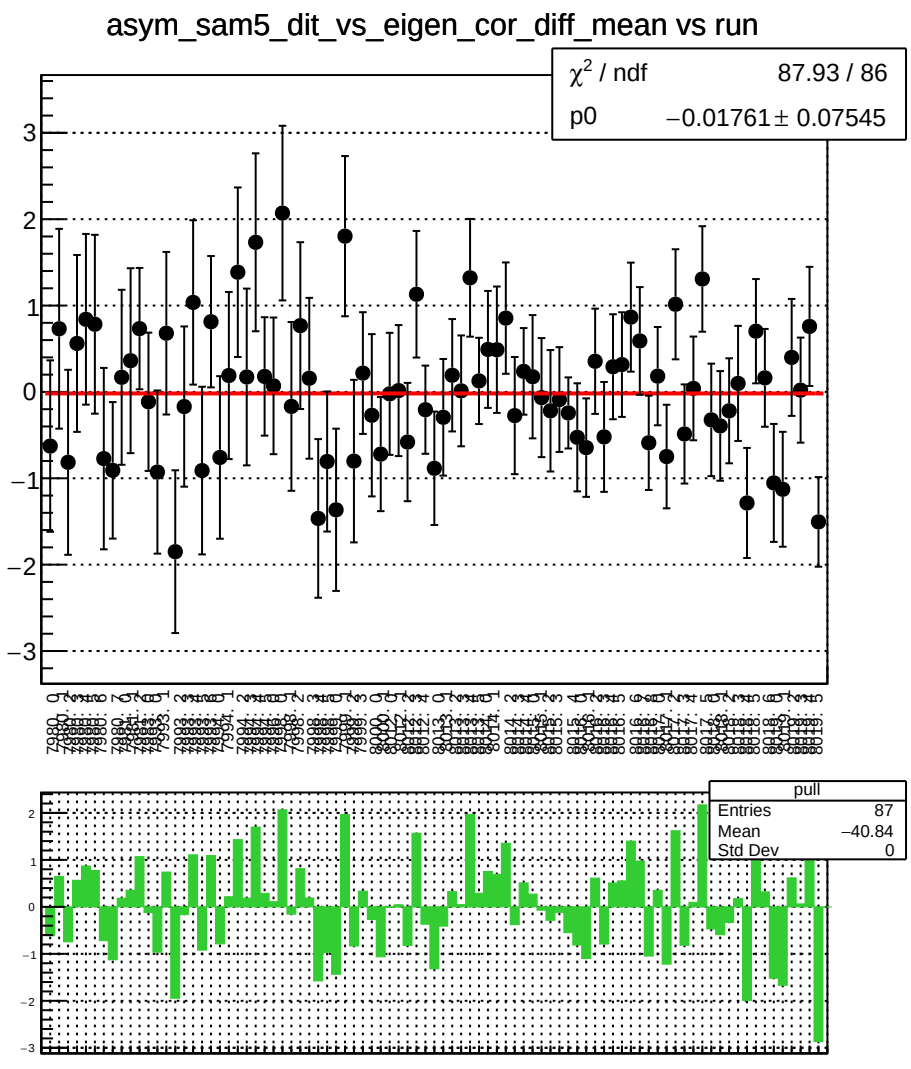

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 81.52 / 86
p0 −1.664e−14 ± 5.405e−14
pull
Entries 87
Mean 28.4
Std Dev 3.864

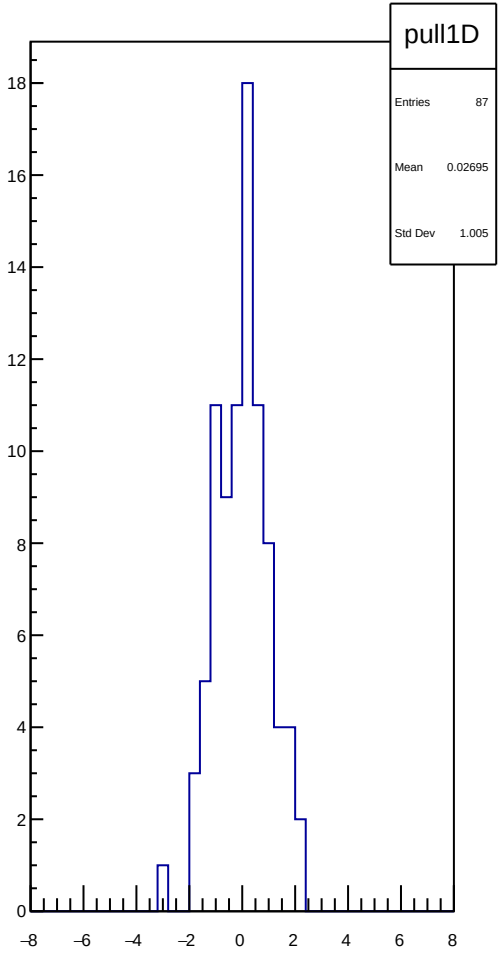

pull1D
Entries 87
Mean −0.103
Std Dev 0.9625

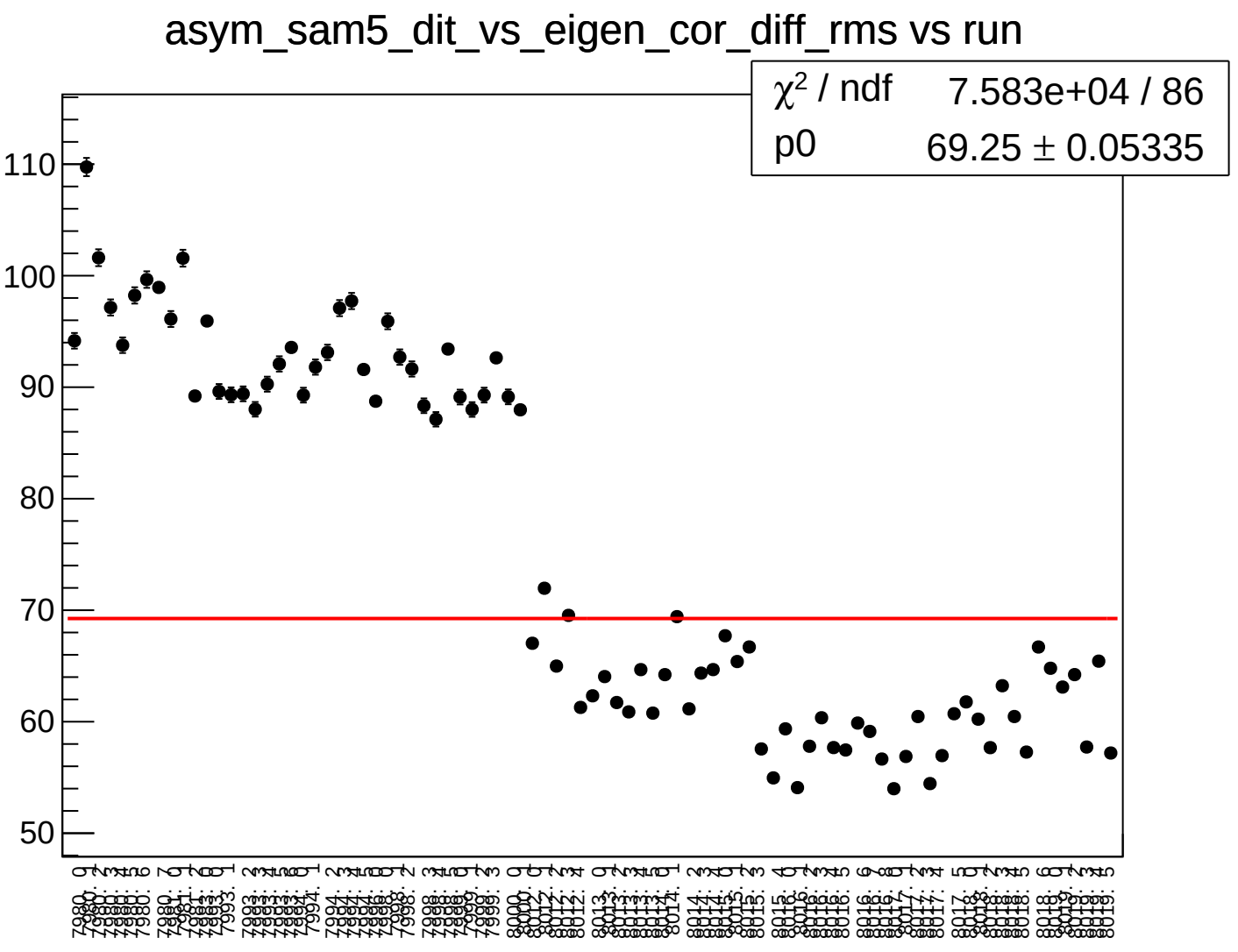

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.038e+06 / 86
p0 3.248e−11 ± 3.822e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

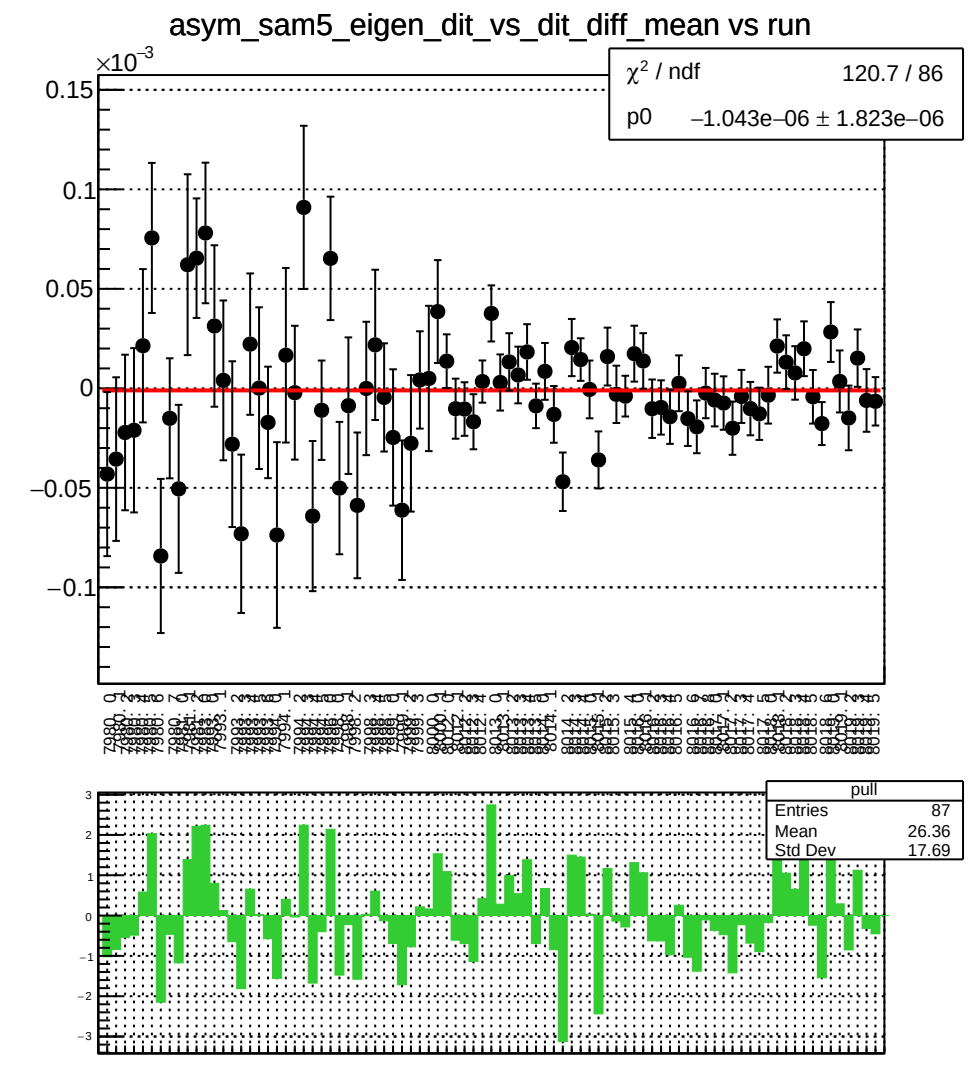

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 87.93 / 86
p0 −0.01761 ± 0.07545
pull
Entries 87
Mean −40.84
Std Dev 0
pull1D
Entries 87
Mean 0.02695
Std Dev 1.005

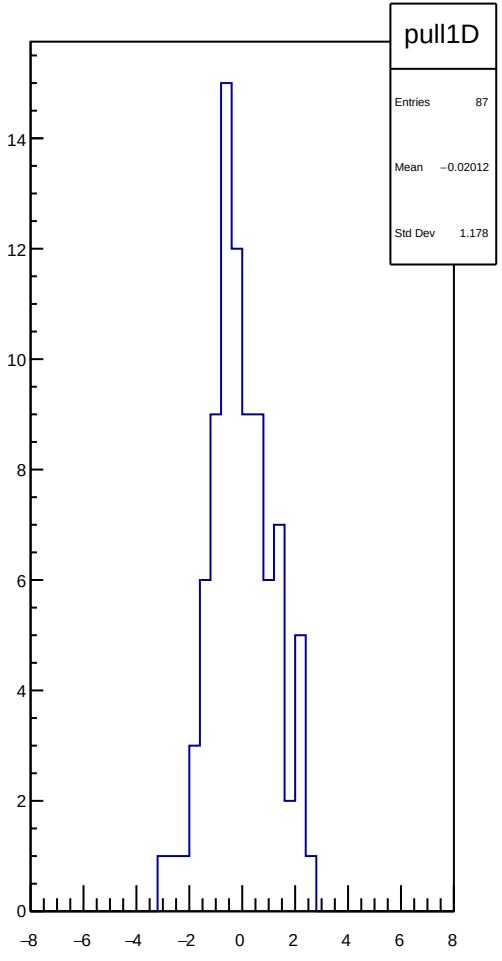

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 7.583e+04 / 86
p0 69.25 ± 0.05335
110
100
90
80
70
60
50

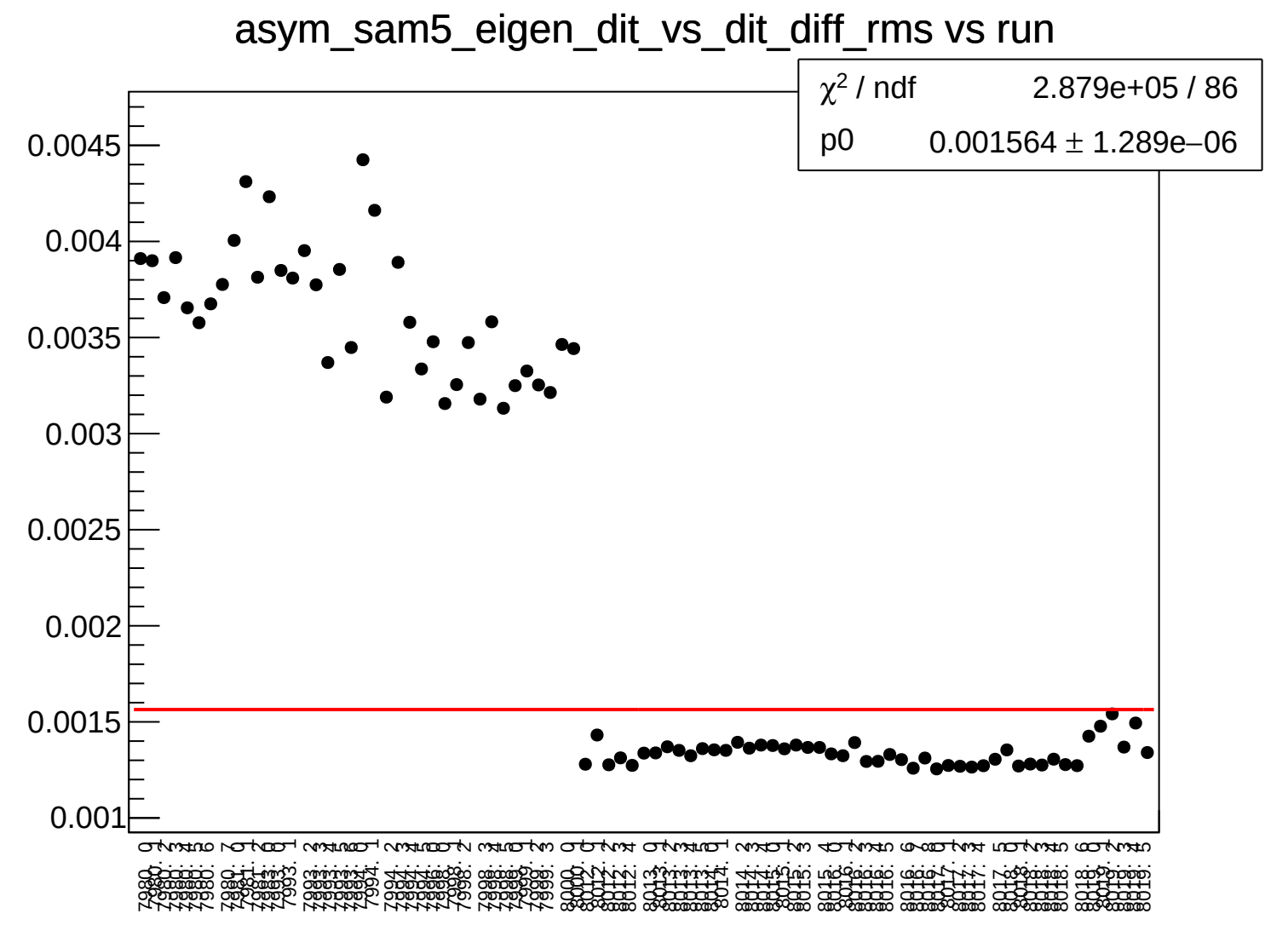

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.93 / 86
p0 −0.01761 ± 0.07545
pull
Entries 87
Mean −40.84
Std Dev 0

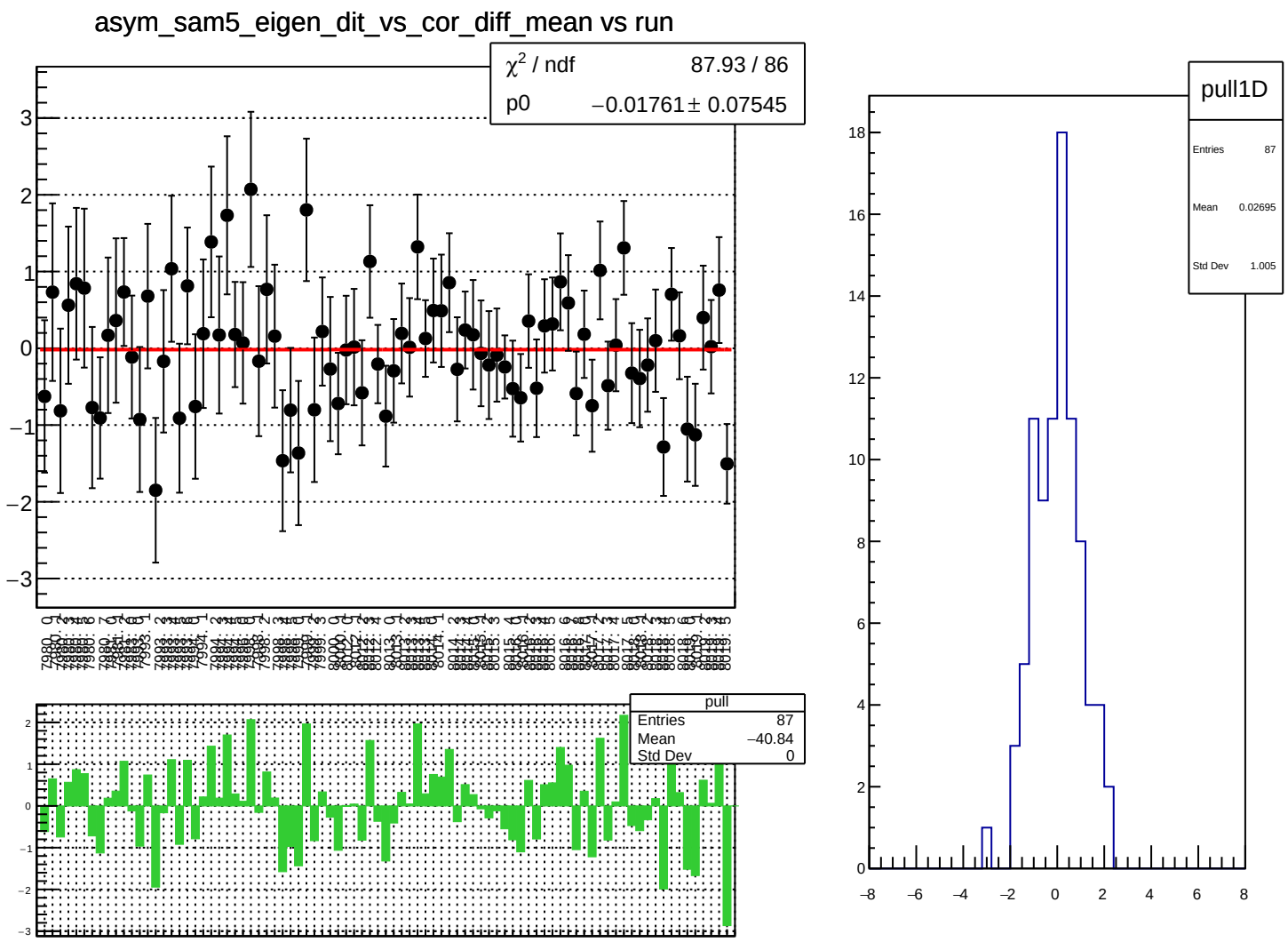

pull1D
Entries 87
Mean 0.02695
Std Dev 1.005

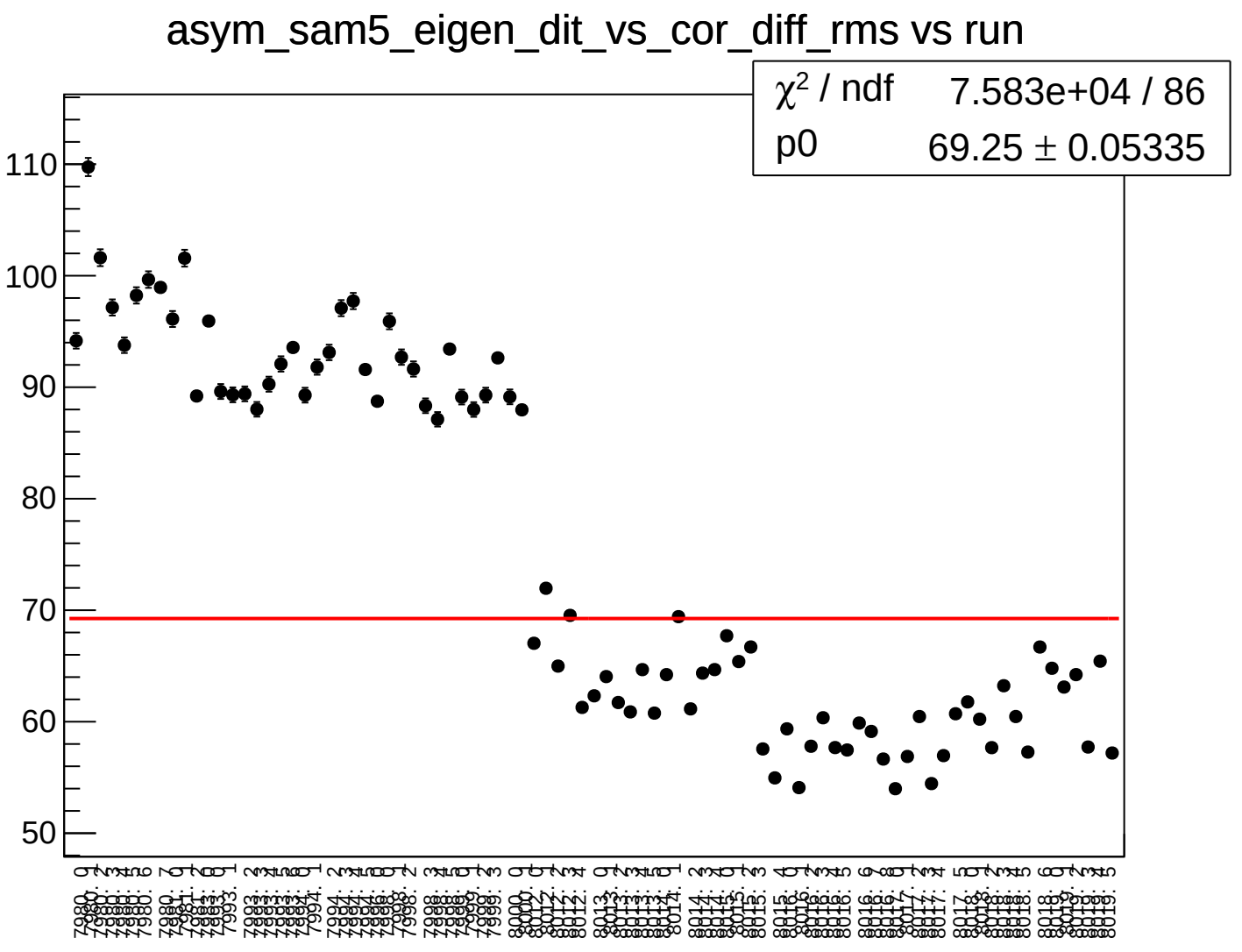

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.583e+04 / 86
p0 69.25 ± 0.05335
110
100
90
80
70
60
50

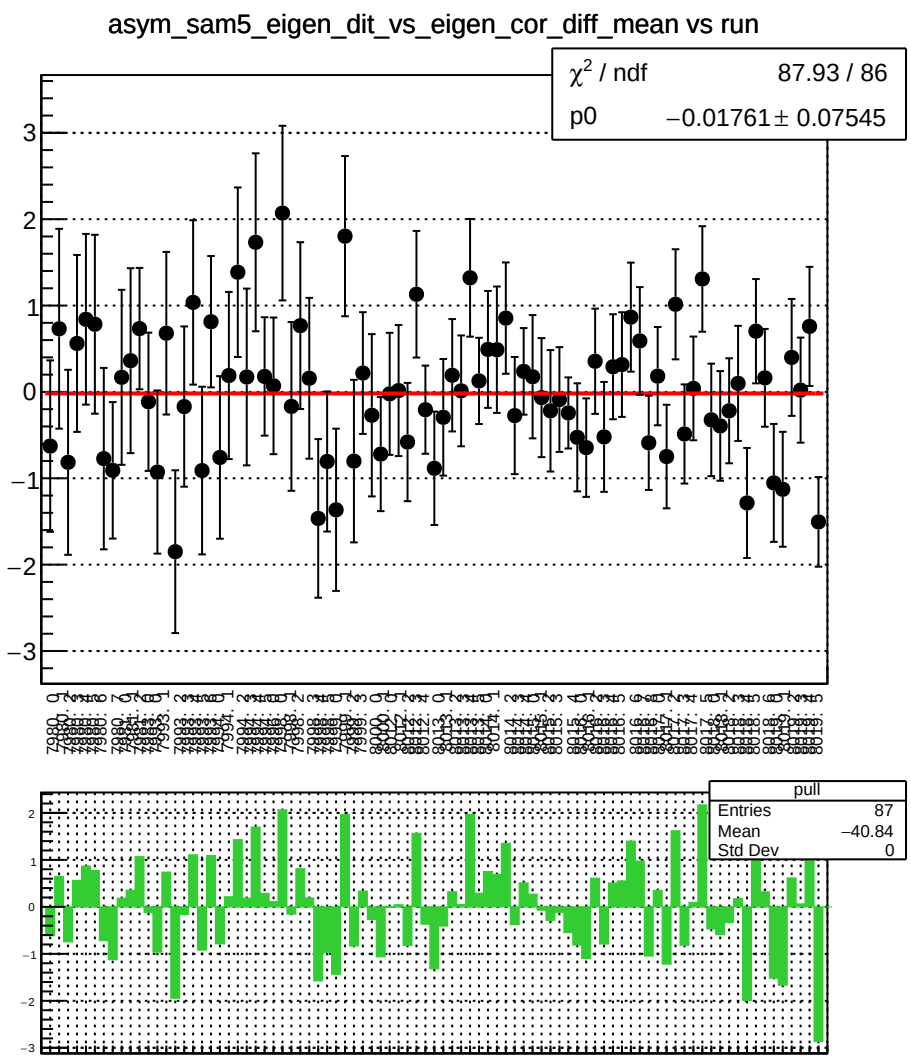

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 120.7 / 86
p0 −1.043e−06 ± 1.823e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 26.36
Std Dev 17.69
3
2
1
0
−1
−2
−3

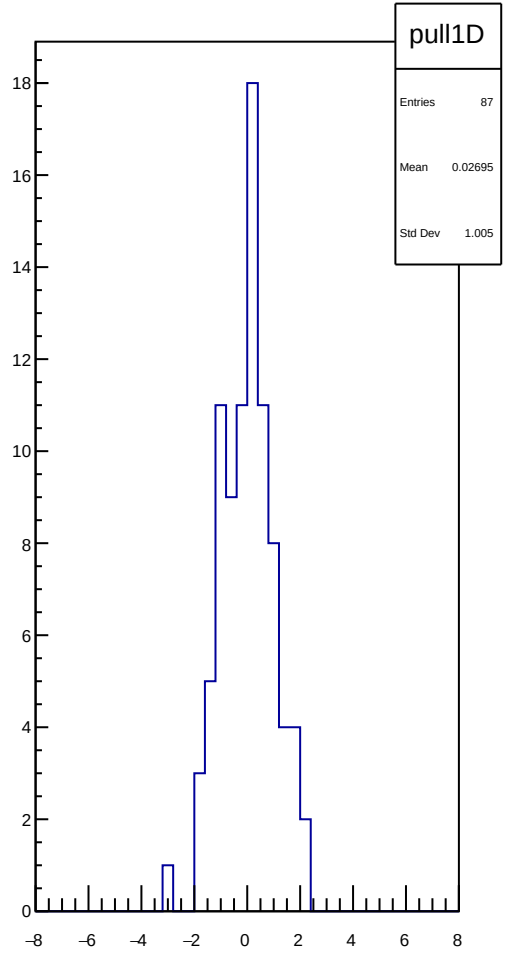

pull1D
Entries 87
Mean −0.02012
Std Dev 1.178
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

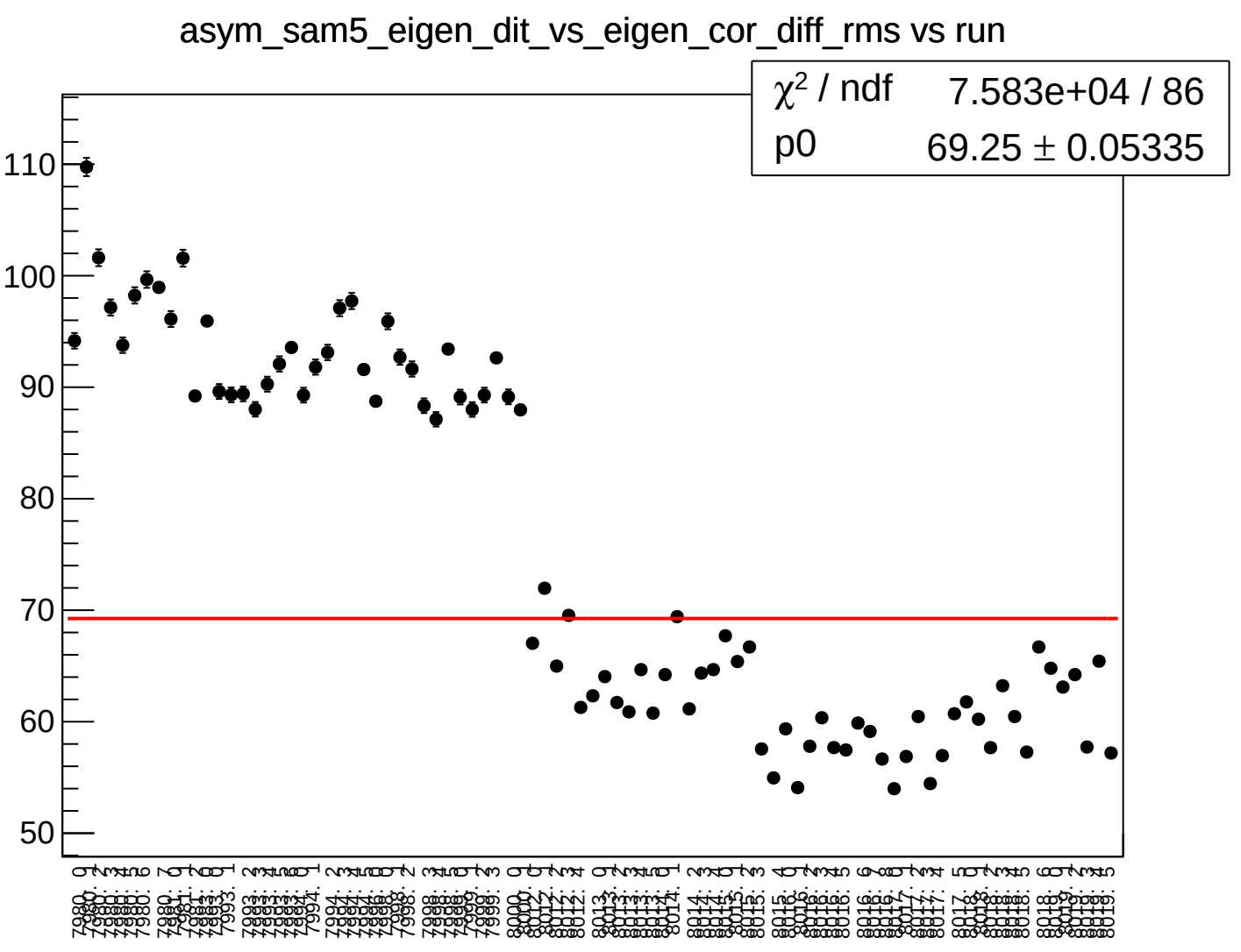

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.879e+05 / 86
p0 0.001564 ± 1.289e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

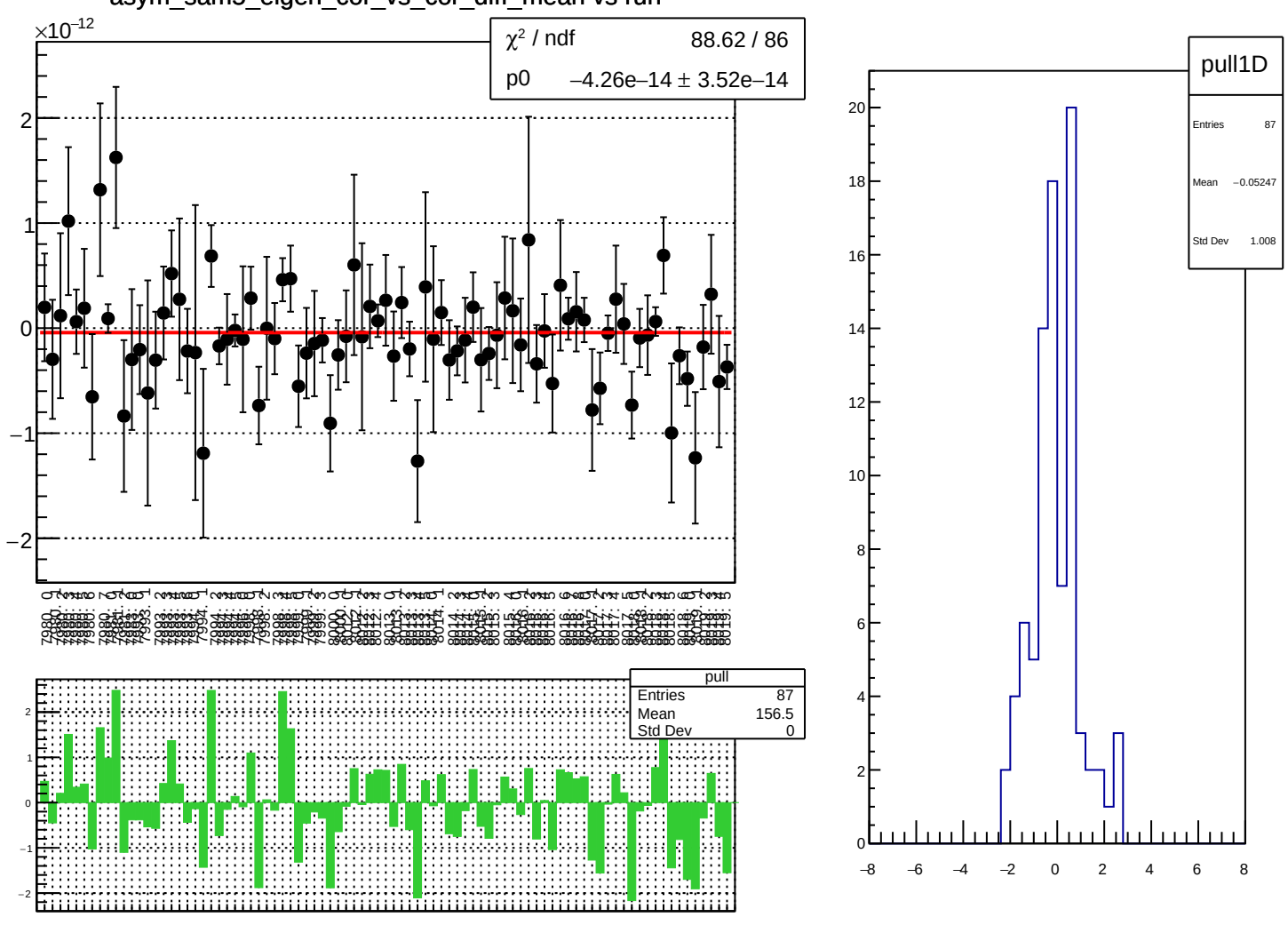

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.93 / 86
p0 −0.01761 ± 0.07545
pull
Entries 87
Mean −40.84
Std Dev 0
pull1D
Entries 87
Mean 0.02695
Std Dev 1.005

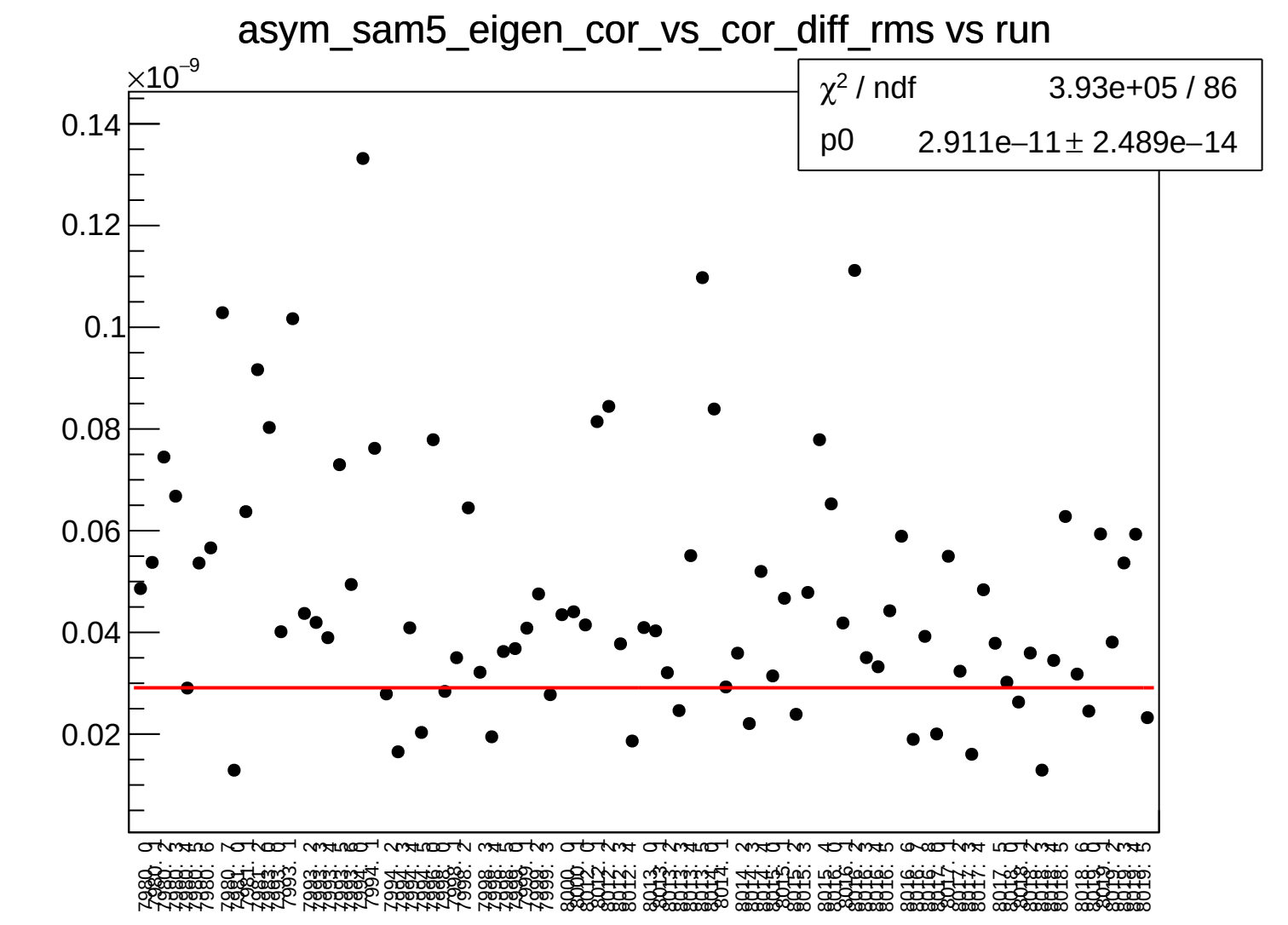

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.583e+04 / 86
p0 69.25 ± 0.05335
110
100
90
80
70
60
50

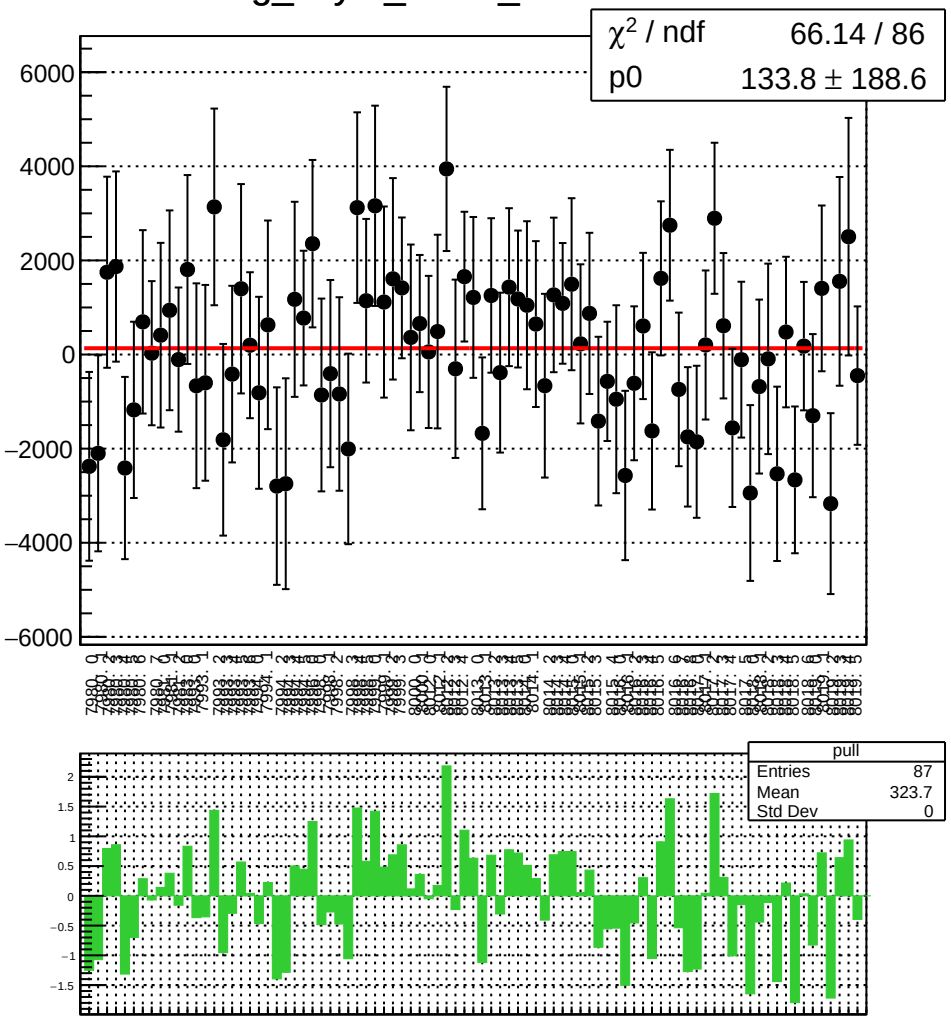

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.93 / 86
p0 −0.01761 ± 0.07545
pull
Entries 87
Mean −40.84
Std Dev 0

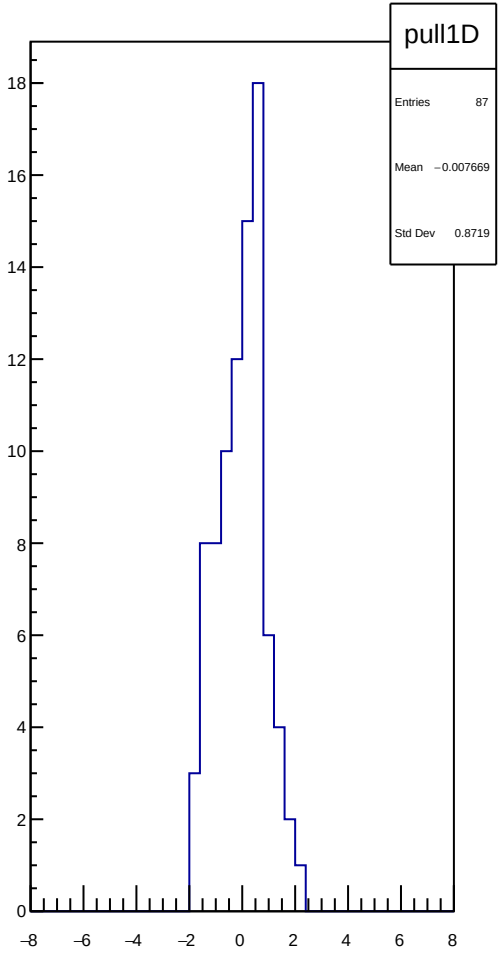

pull1D
Entries 87
Mean 0.02695
Std Dev 1.005

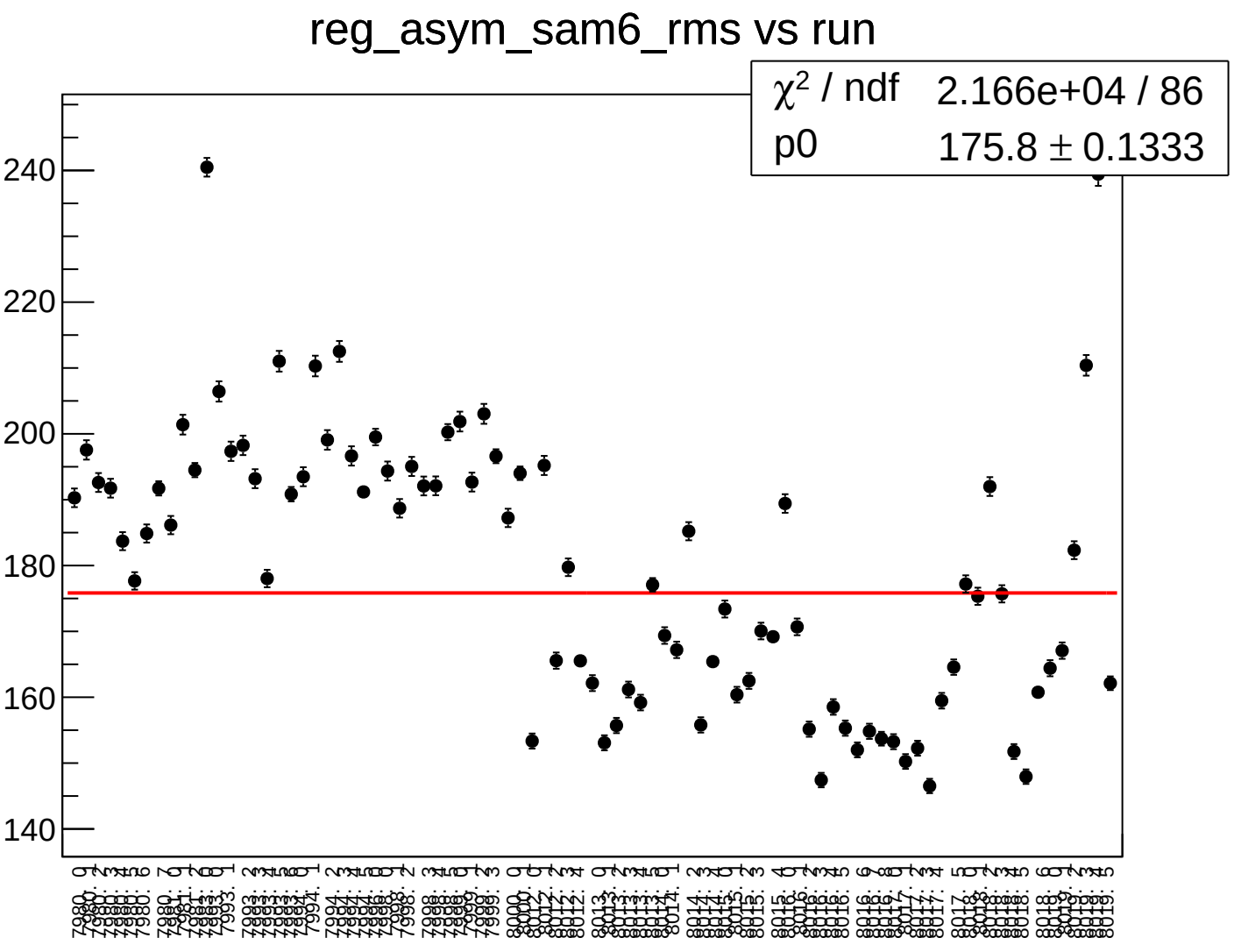

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.583e+04 / 86
p0 69.25 ± 0.05335
110
100
90
80
70
60
50

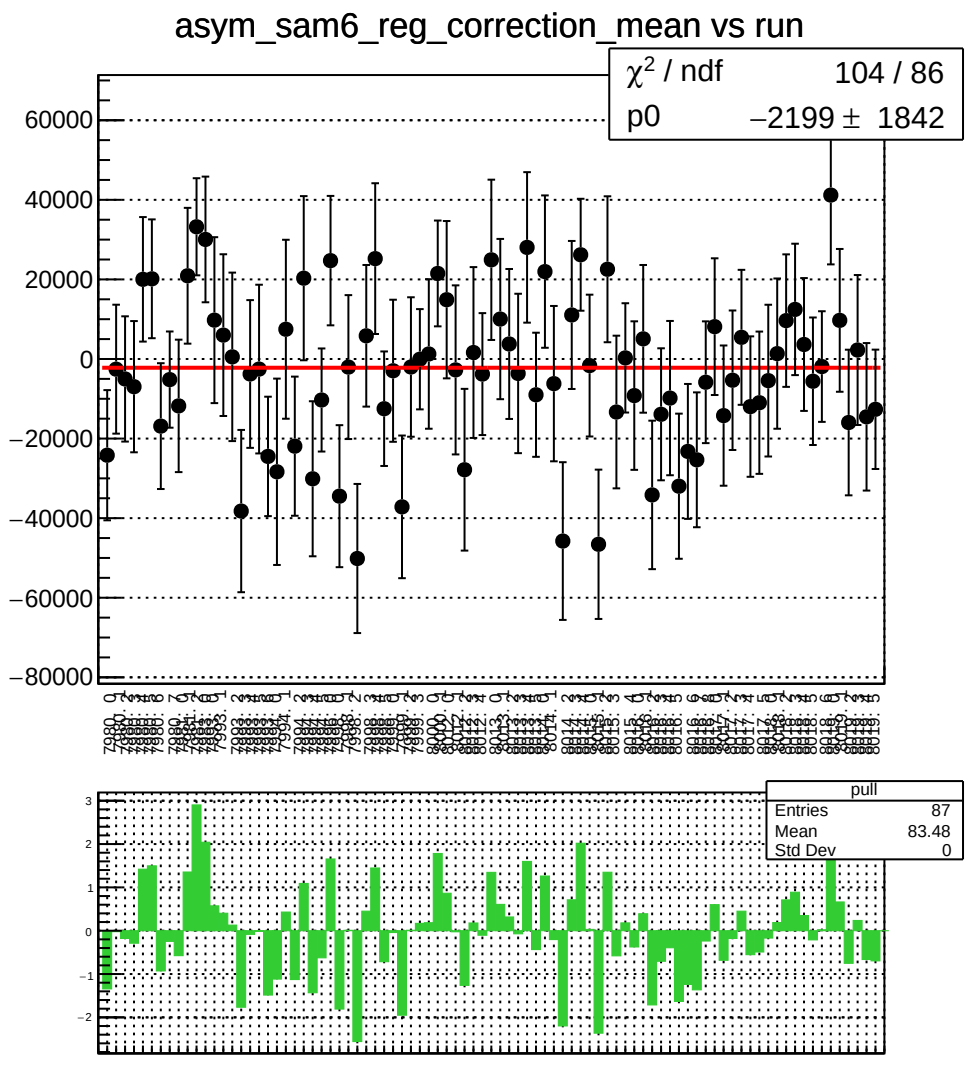

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.62 / 86
p0 −4.26e−14 ± 3.52e−14
pull
Entries 87
Mean 156.5
Std Dev 0
pull1D
Entries 87
Mean −0.05247
Std Dev 1.008

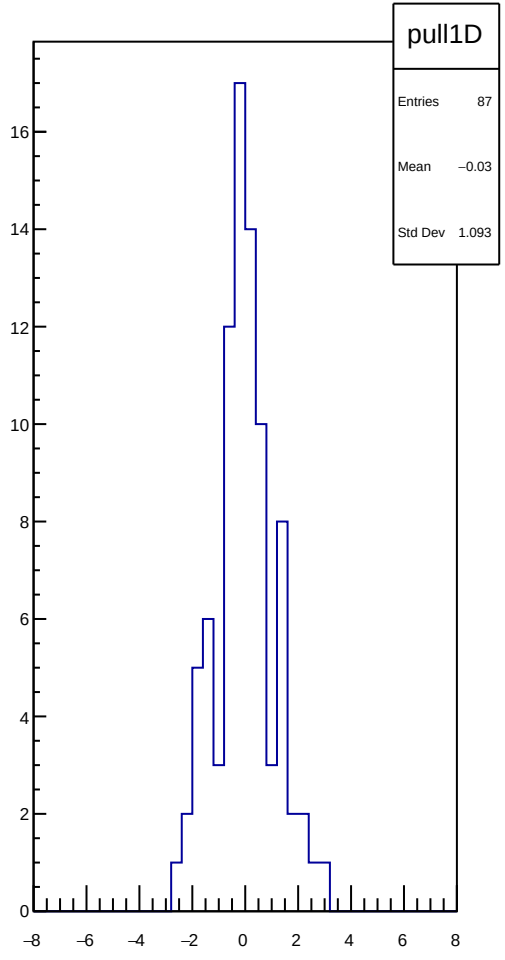

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.93e+05 / 86
p0 2.911e−11 ± 2.489e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

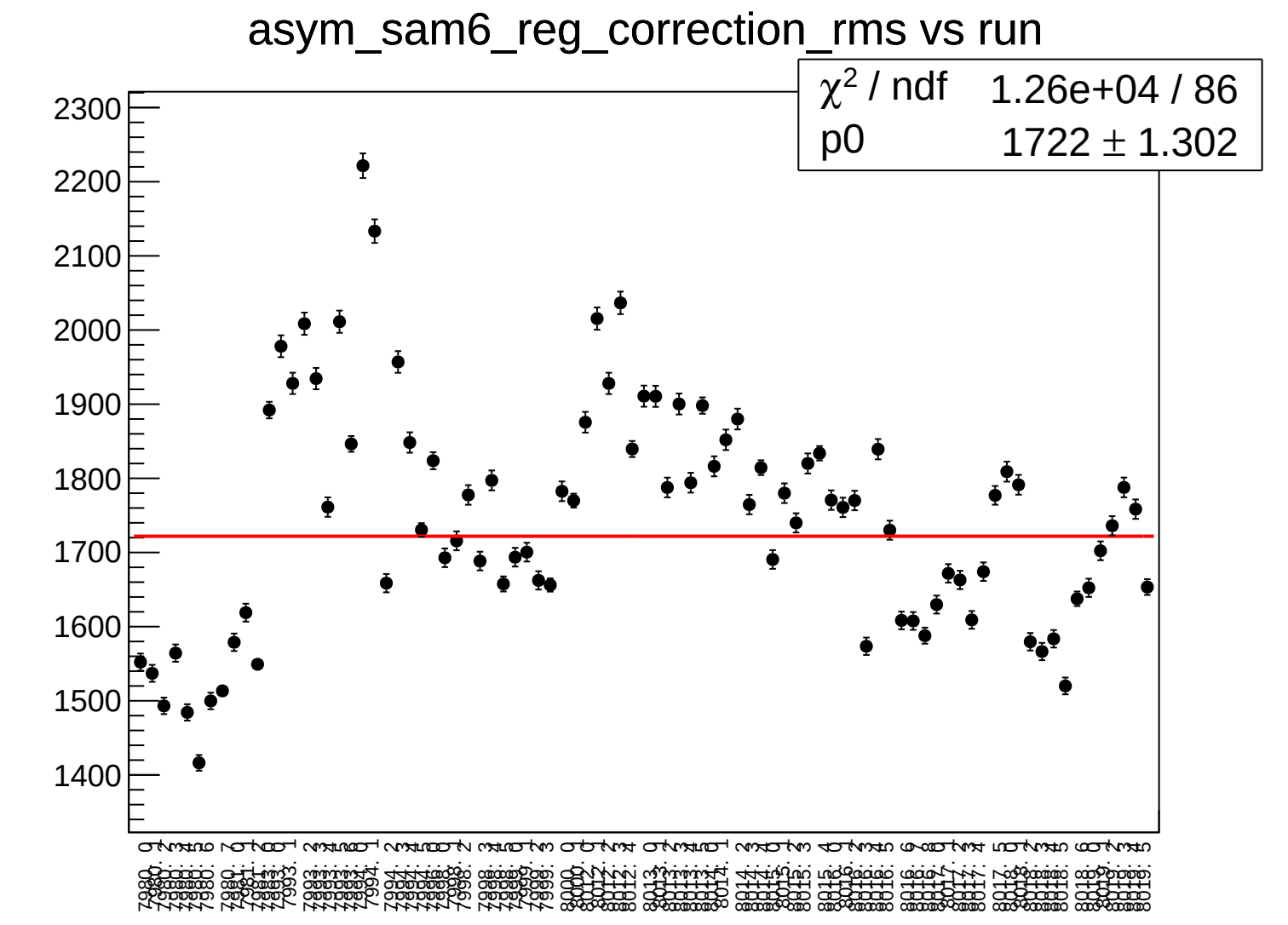

reg_asym_sam6_mean vs run
χ² / ndf 66.14 / 86
p0 133.8 ± 188.6
pull
Entries 87
Mean 323.7
Std Dev 0

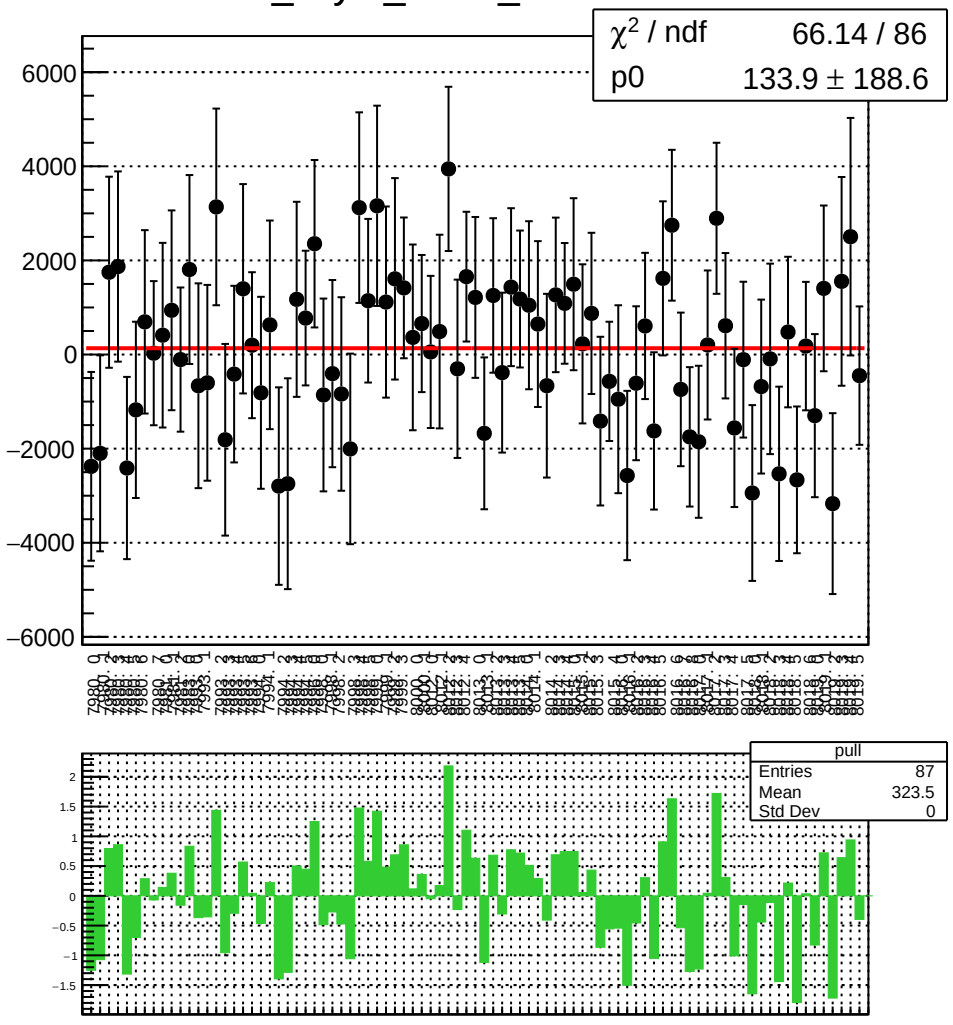

pull1D
Entries 87
Mean −0.007669
Std Dev 0.8719

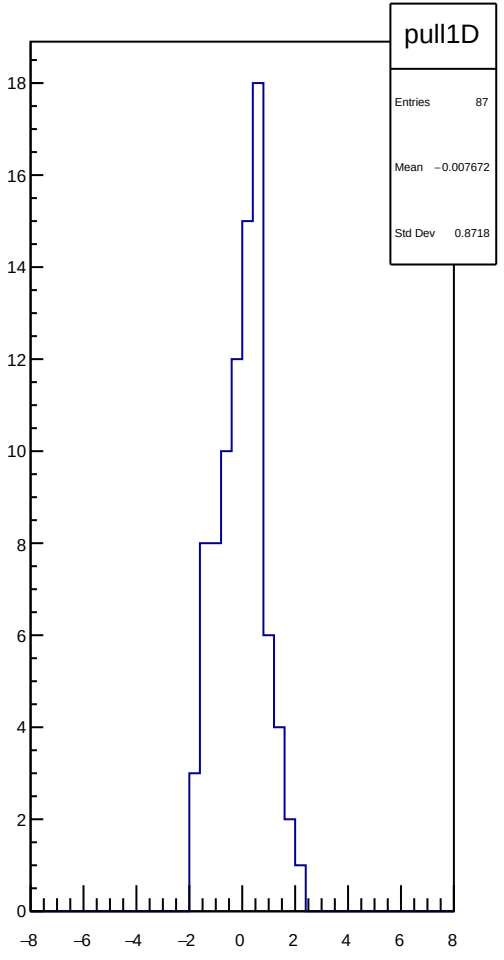

reg_asym_sam6_rms vs run
χ² / ndf 2.166e+04 / 86
p0 175.8 ± 0.1333
240
220
200
180
160
140

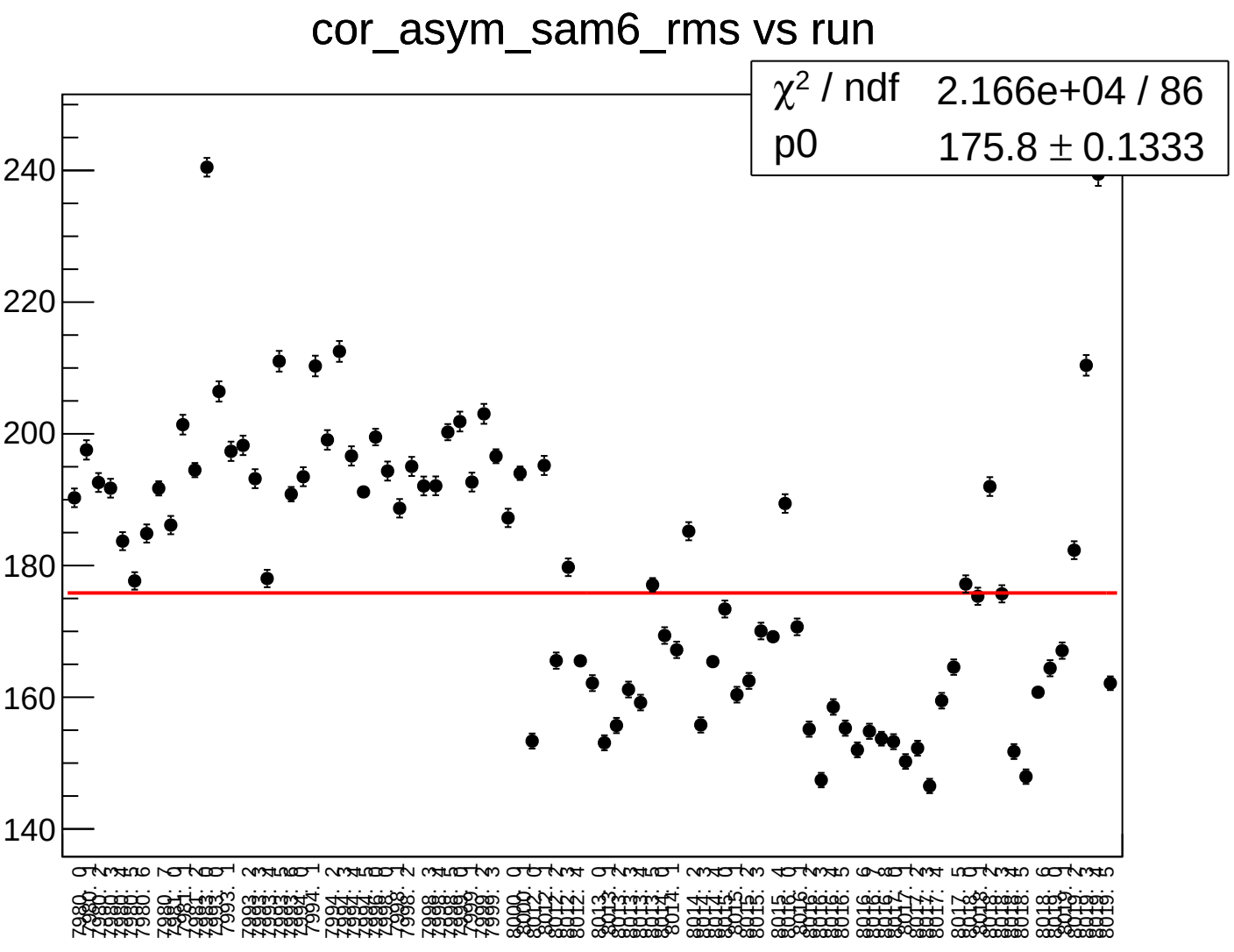

asym_sam6_reg_correction_mean vs run
χ² / ndf 104 / 86
p0 −2199 ± 1842
pull
Entries 87
Mean 83.48
Std Dev 0

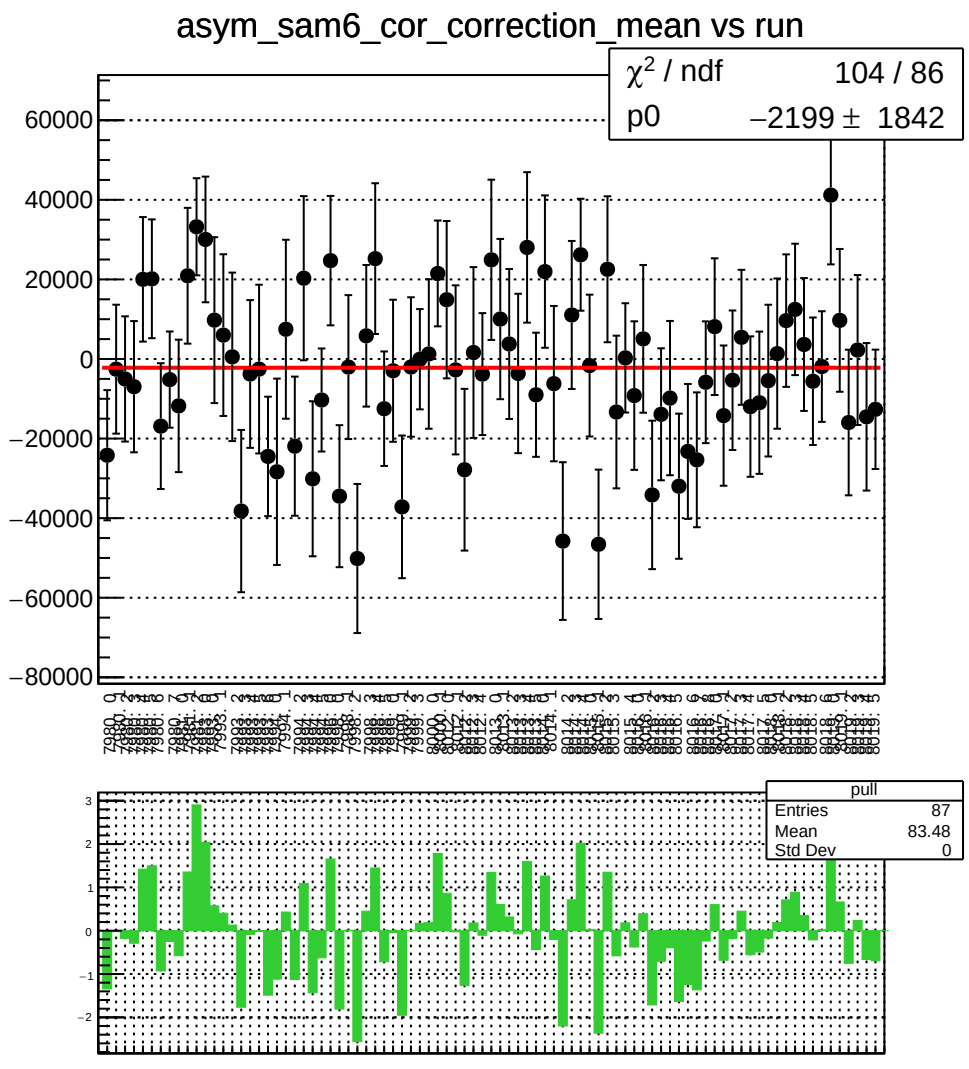

pull1D
Entries 87
Mean −0.03
Std Dev 1.093

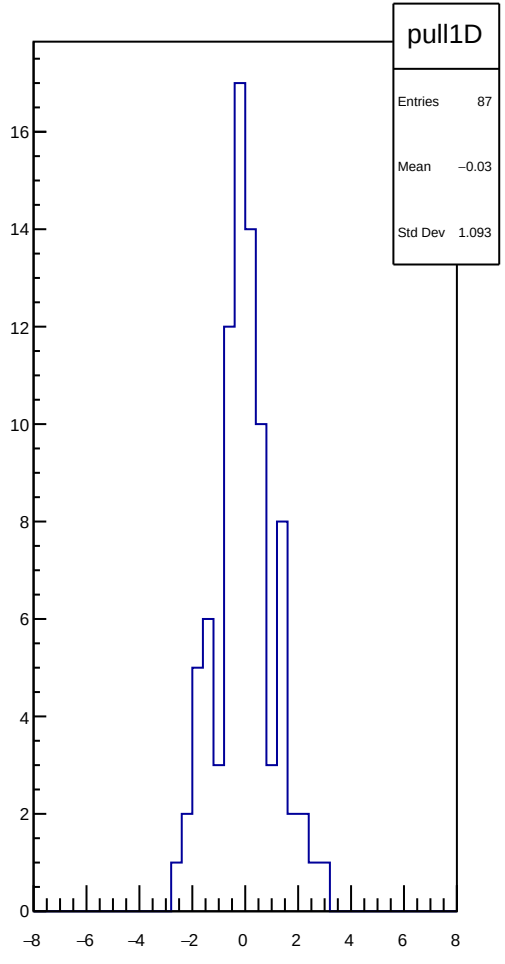

asym_sam6_reg_correction_rms vs run
χ² / ndf 1.26e+04 / 86
p0 1722 ± 1.302
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400


cor_asym_sam6_mean vs run
χ² / ndf 66.14 / 86
p0 133.9 ± 188.6
pull
Entries 87
Mean 323.5
Std Dev 0

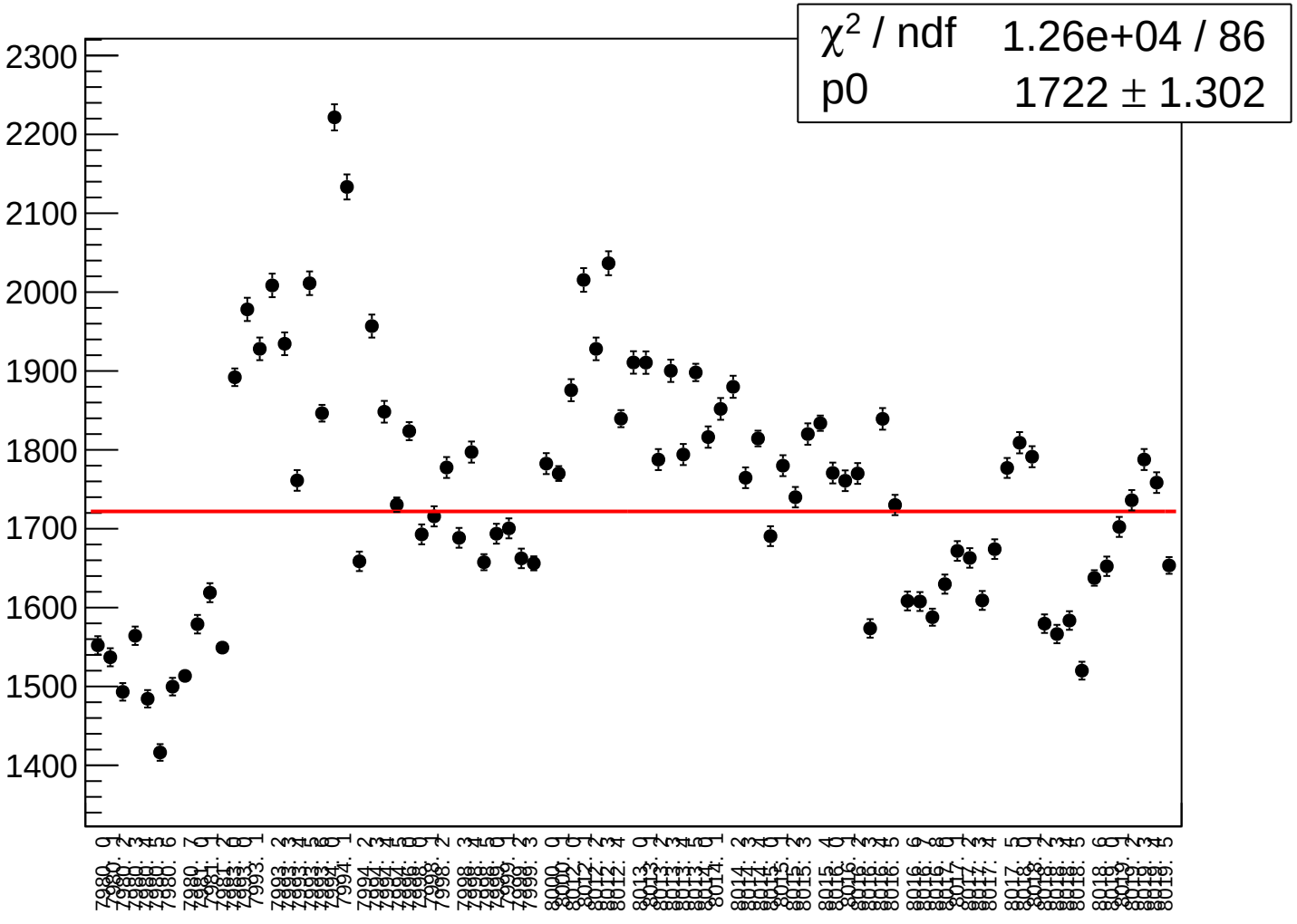

pull1D
Entries 87
Mean −0.007672
Std Dev 0.8718

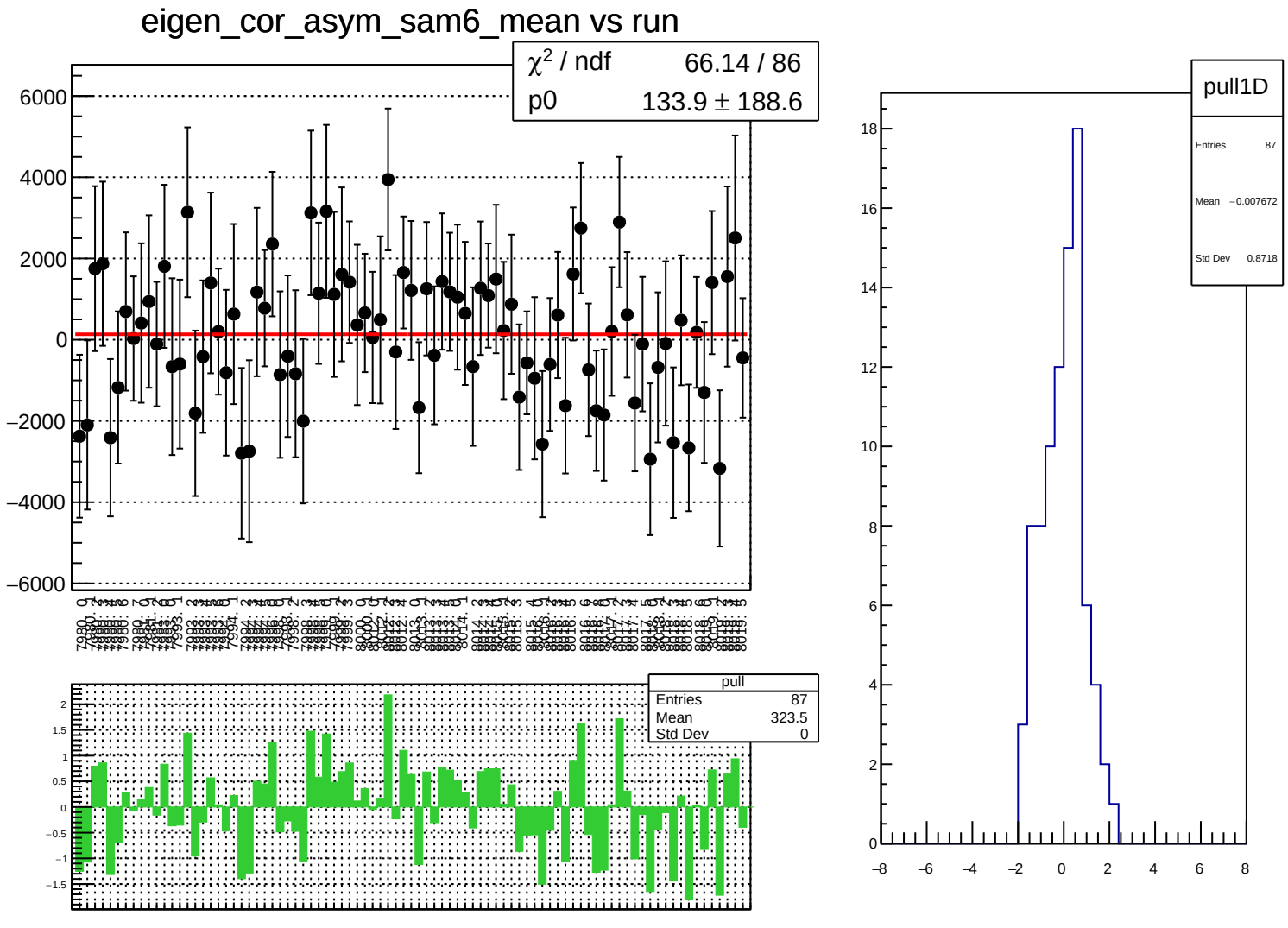

cor_asym_sam6_rms vs run
χ² / ndf 2.166e+04 / 86
p0 175.8 ± 0.1333
240
220
200
180
160
140

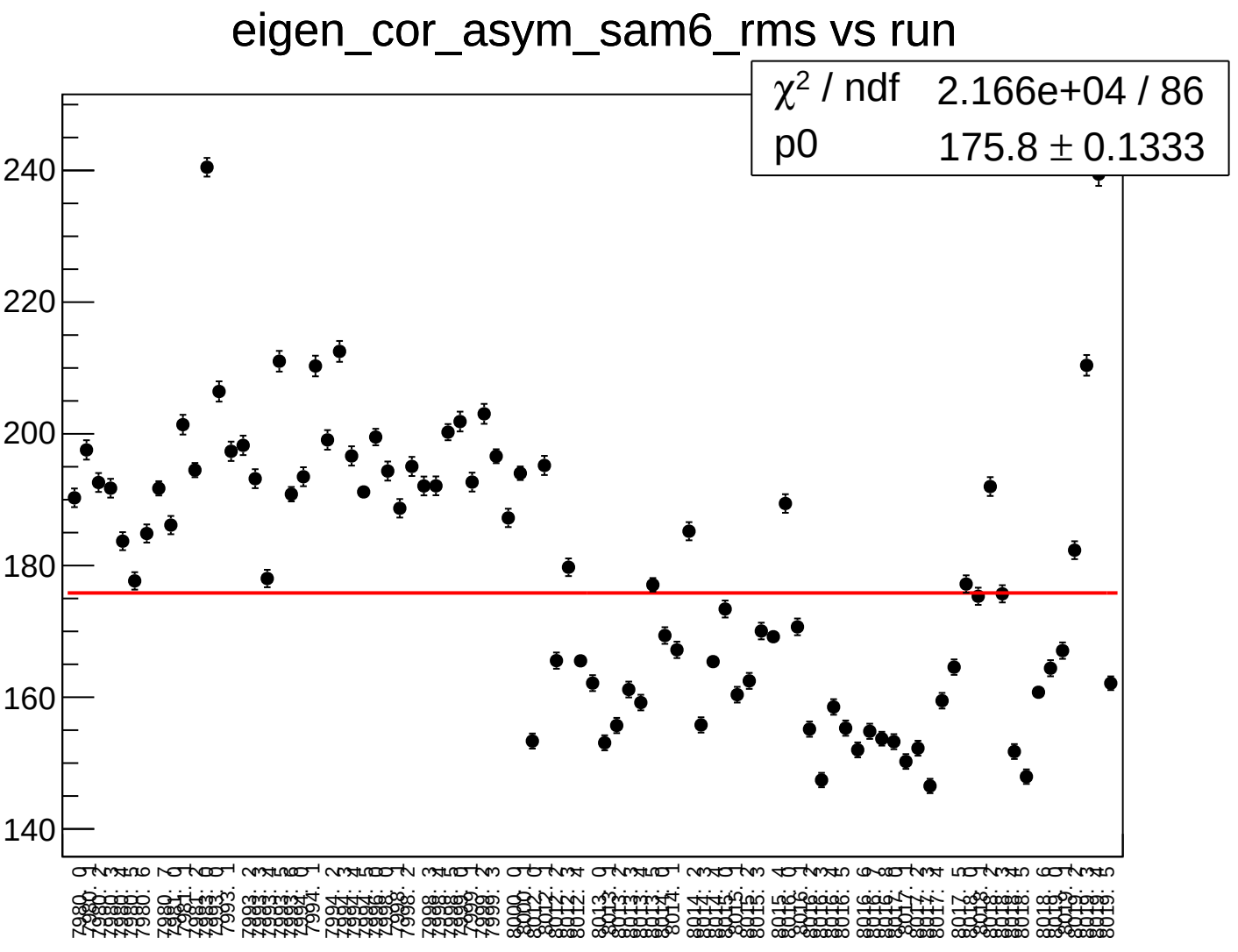

asym_sam6_cor_correction_mean vs run
χ² / ndf 104 / 86
p0 −2199 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 83.48
Std Dev 0
3
2
1
0
−1
−2

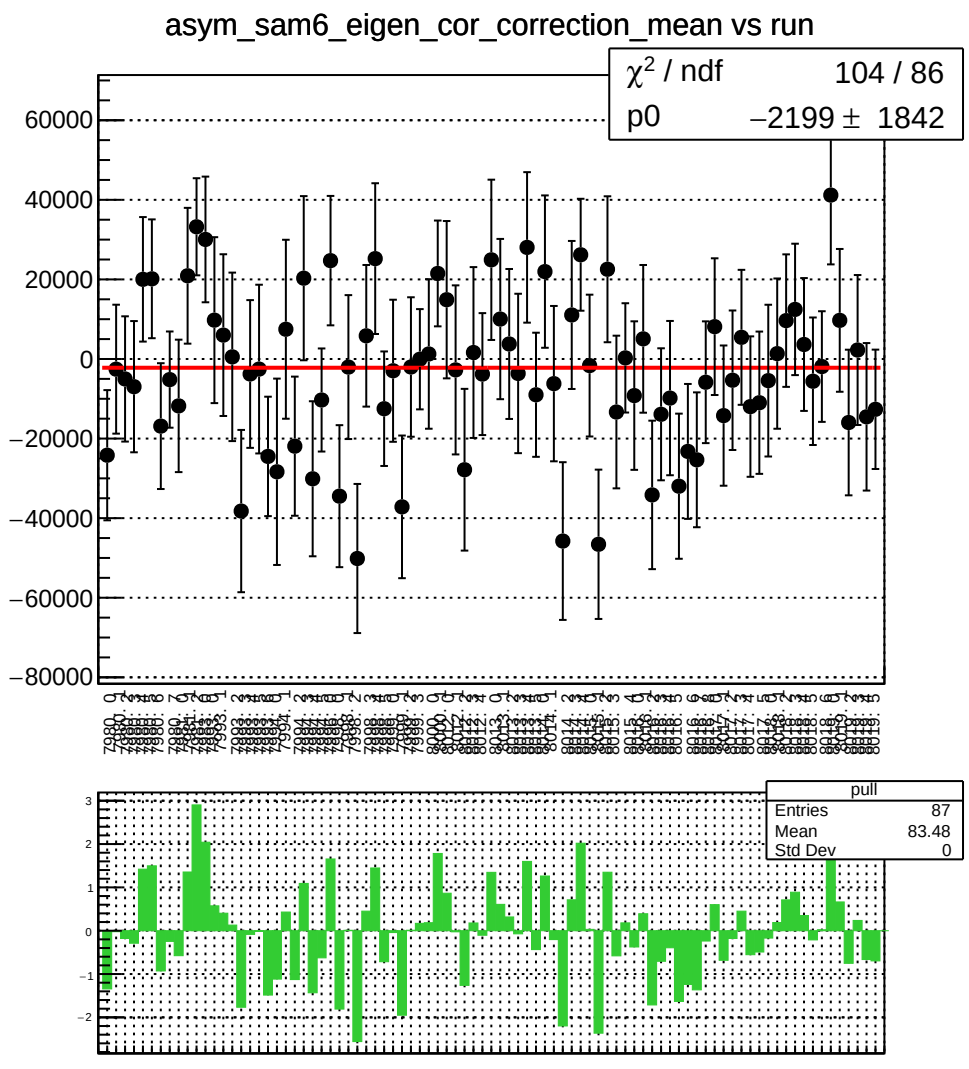

pull1D
Entries 87
Mean −0.03
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

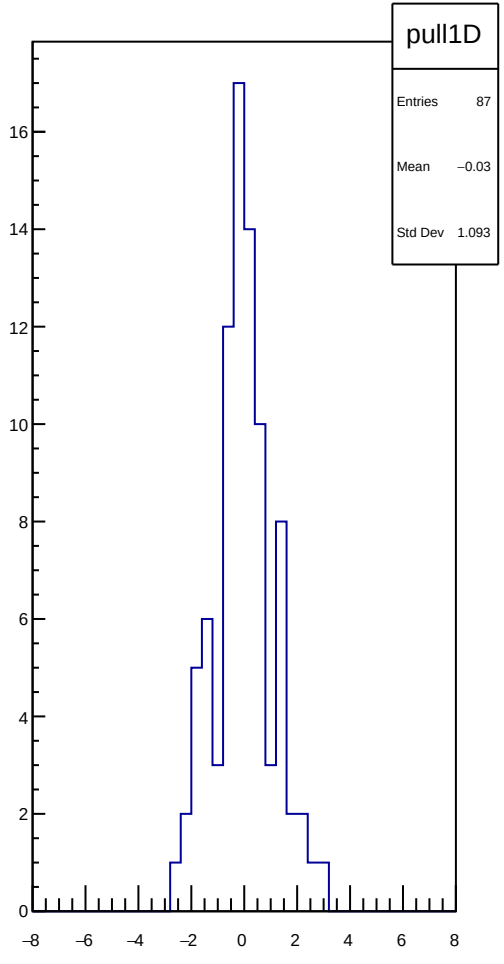
asym_sam6_cor_correction_rms vs run

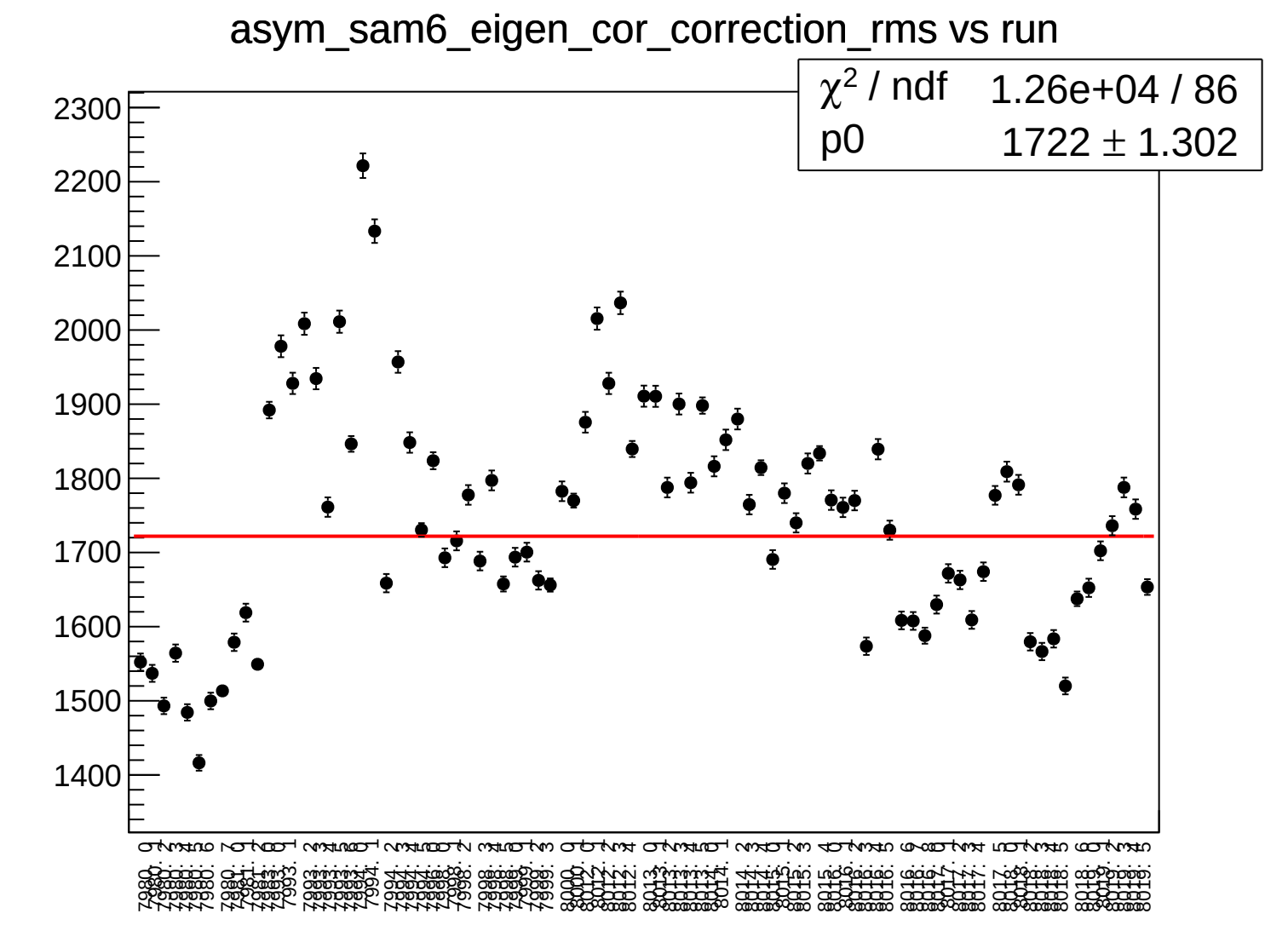


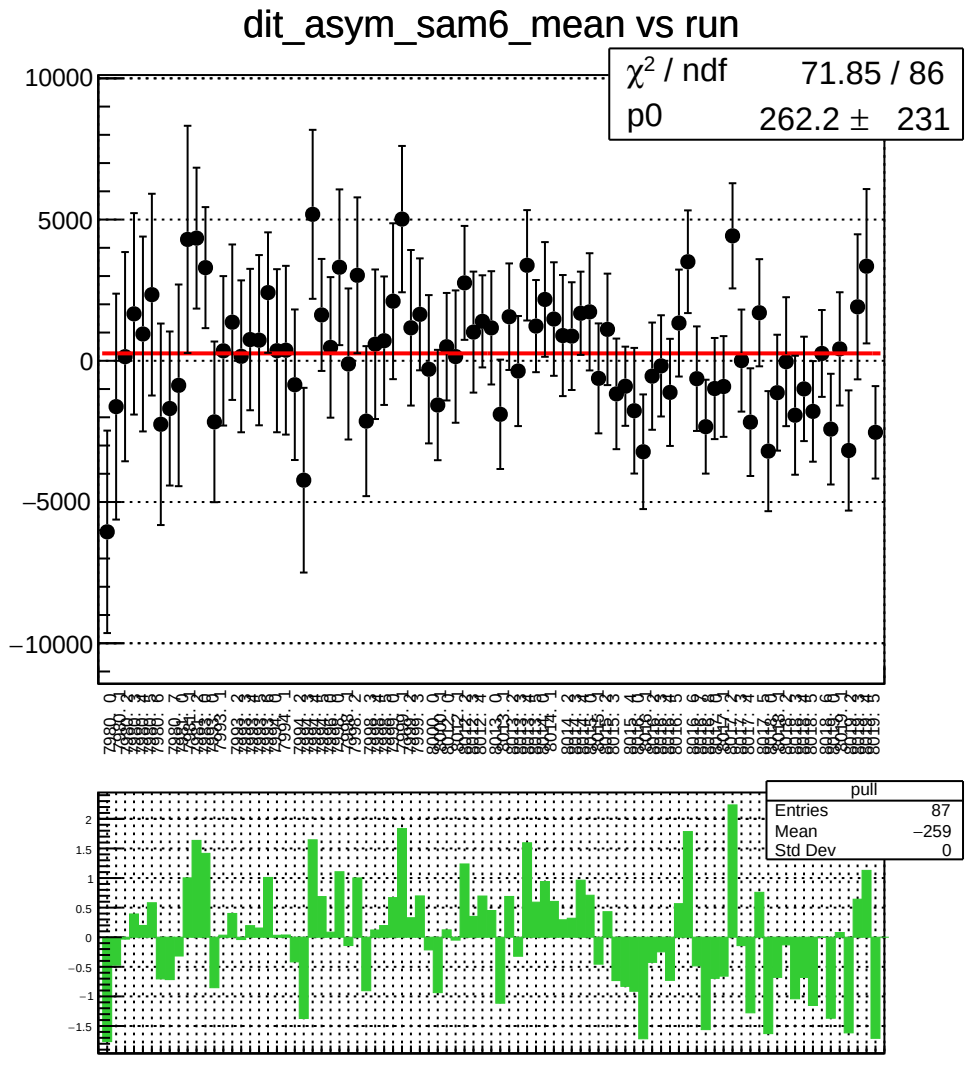

eigen_cor_asym_sam6_mean vs run
χ² / ndf 66.14 / 86
p0 133.9 ± 188.6
pull
Entries 87
Mean 323.5
Std Dev 0
pull1D
Entries 87
Mean −0.007672
Std Dev 0.8718

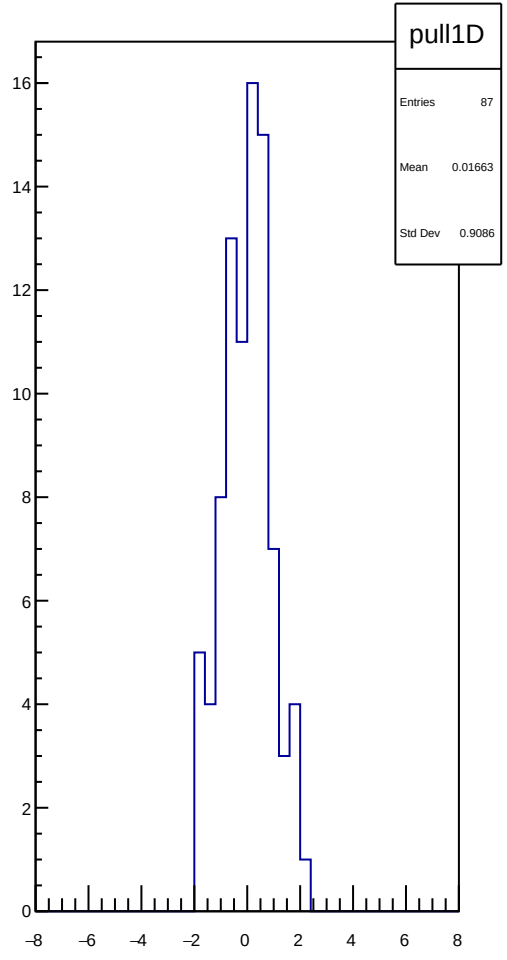

eigen_cor_asym_sam6_rms vs run
χ² / ndf 2.166e+04 / 86
p0 175.8 ± 0.1333
240
220
200
180
160
140

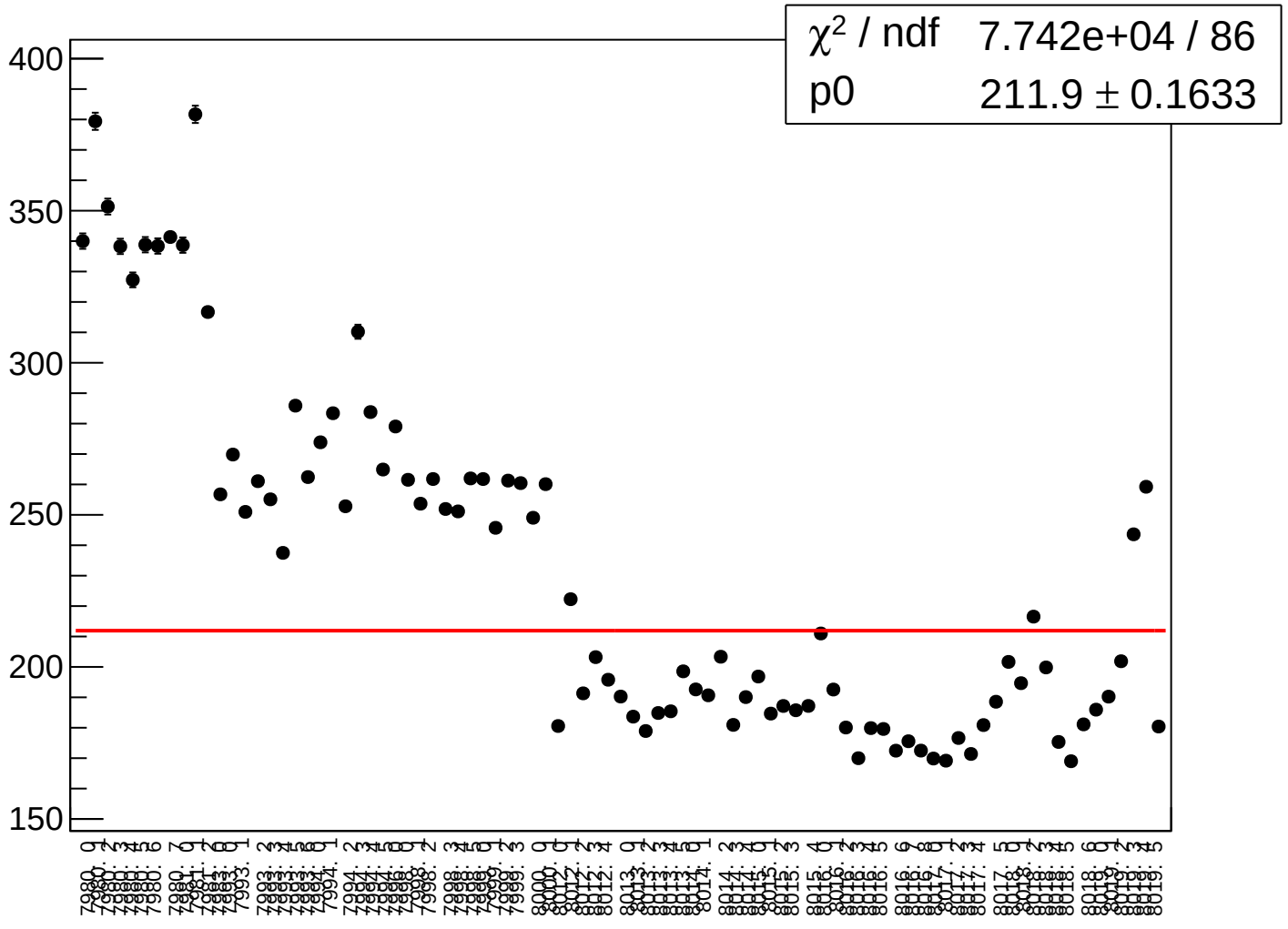

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 104 / 86
p0 −2199 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 83.48
Std Dev 0
3
2
1
0
−1
−2

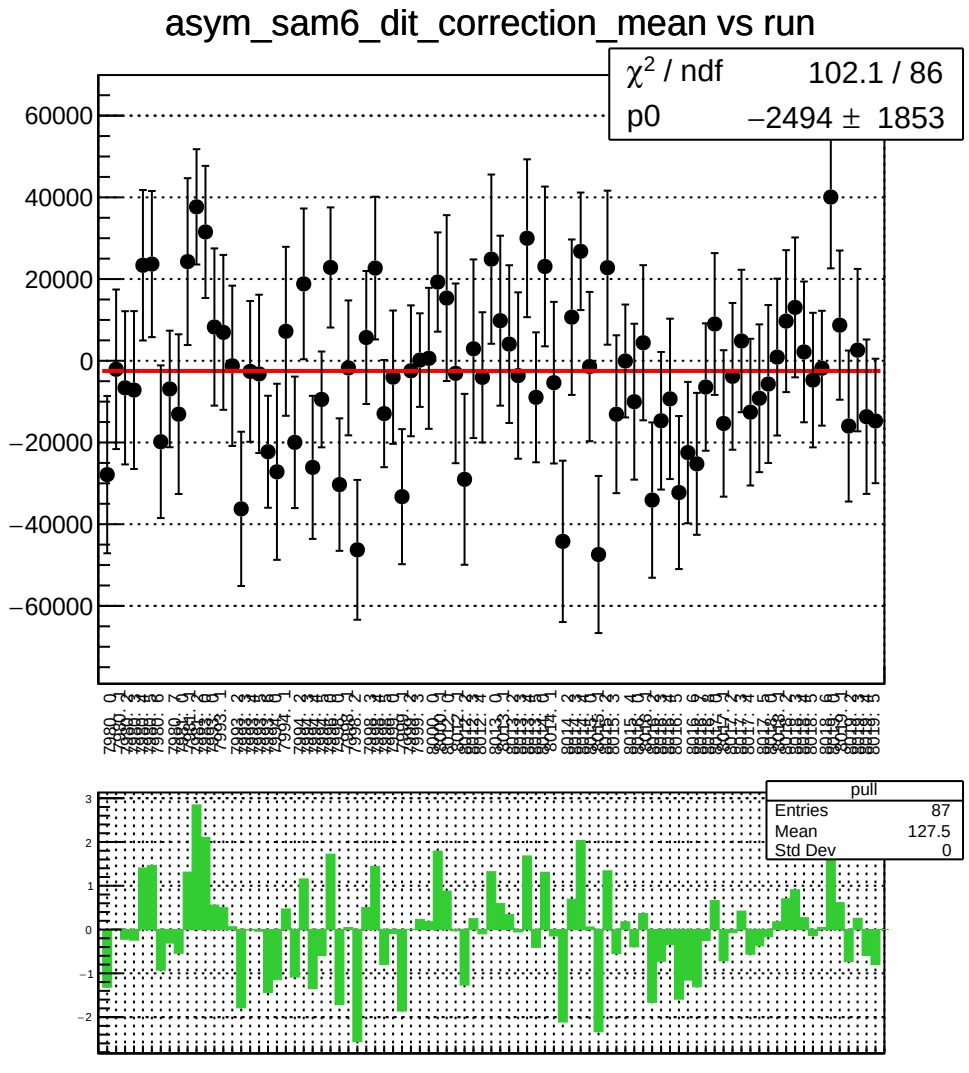

pull1D
Entries 87
Mean −0.03
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

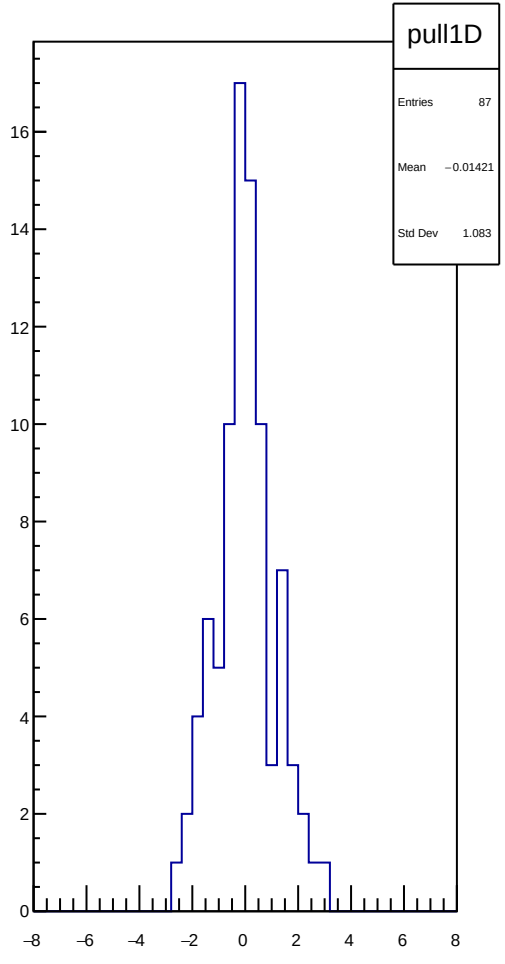

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 1.26e+04 / 86
p0 1722 ± 1.302
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

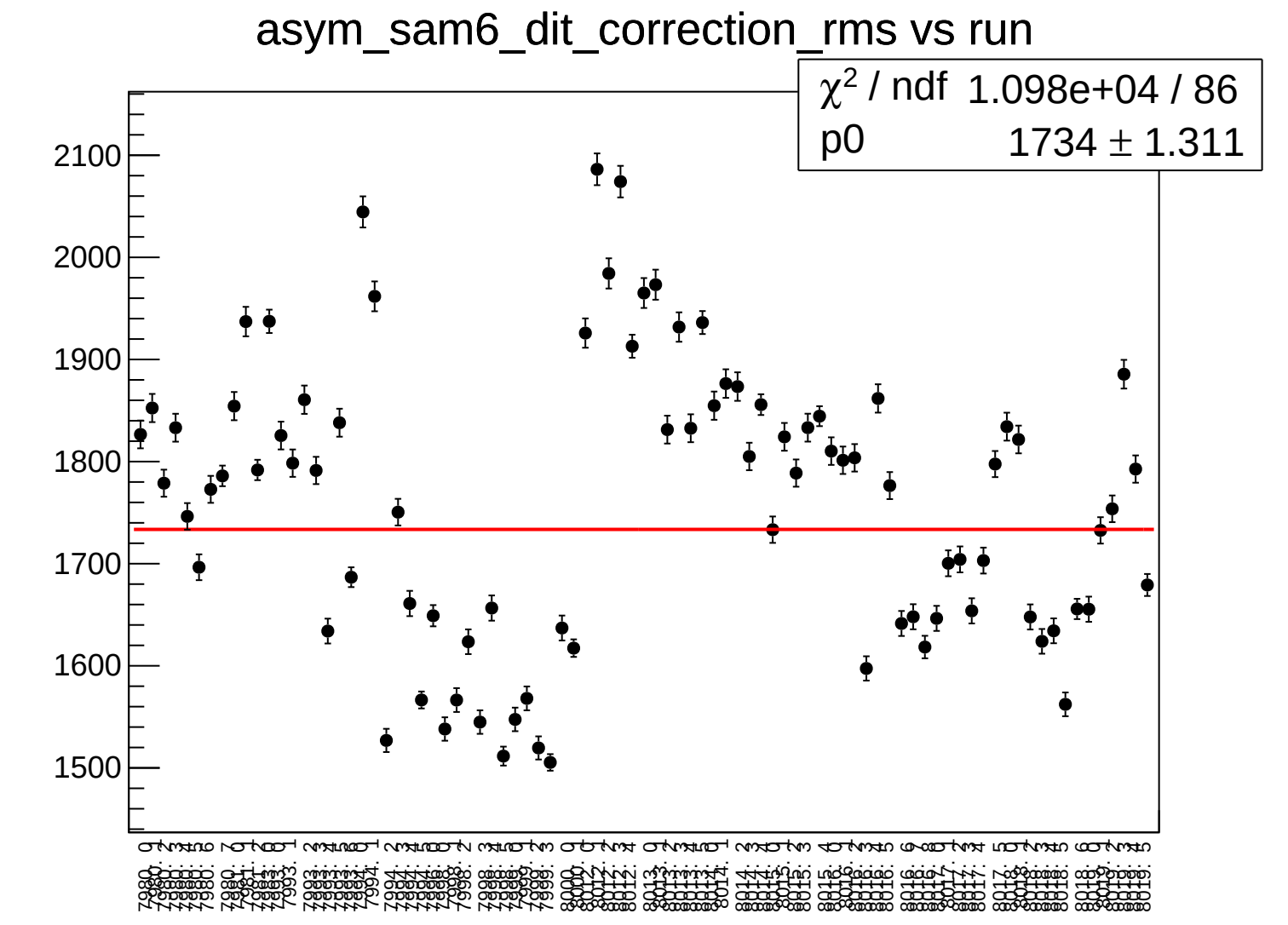

dit_asym_sam6_mean vs run
χ² / ndf 71.85 / 86
p0 262.2 ± 231
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −259
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

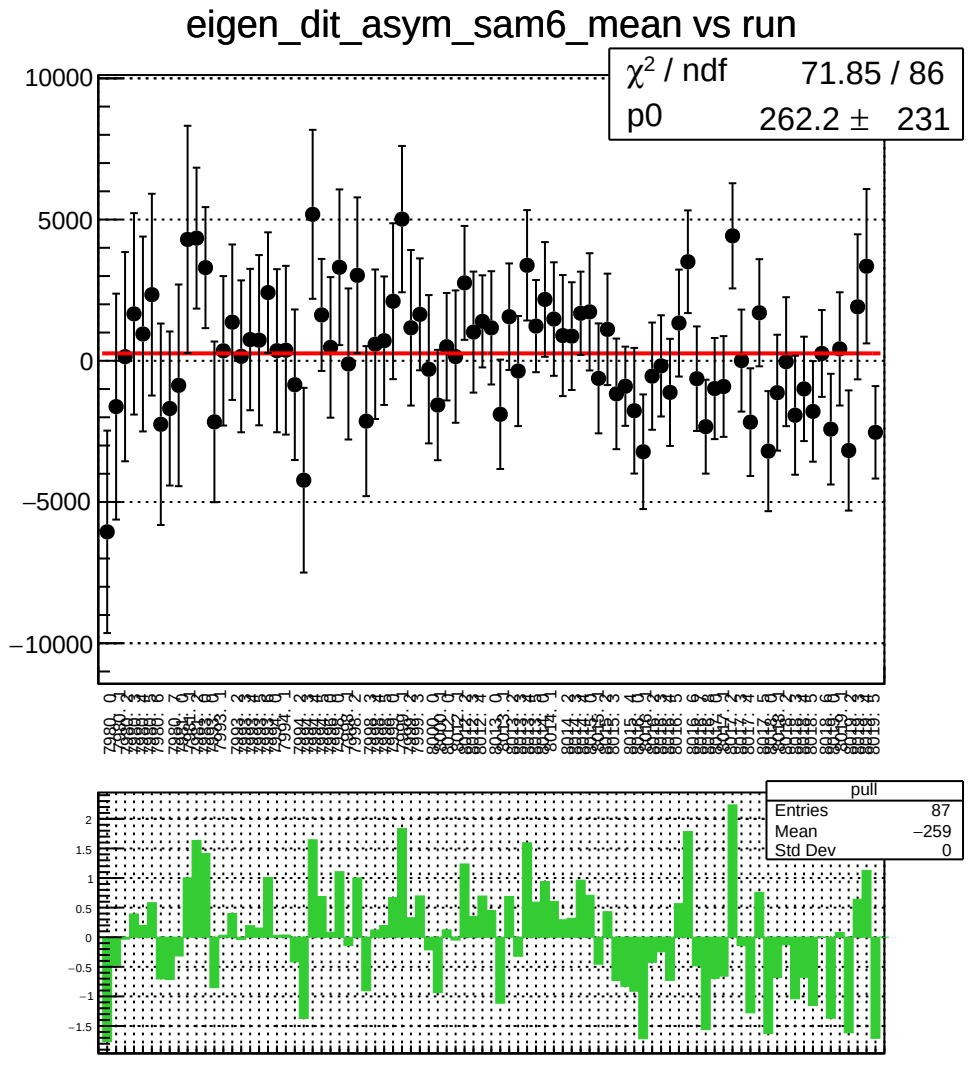

pull1D
Entries 87
Mean 0.01663
Std Dev 0.9086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

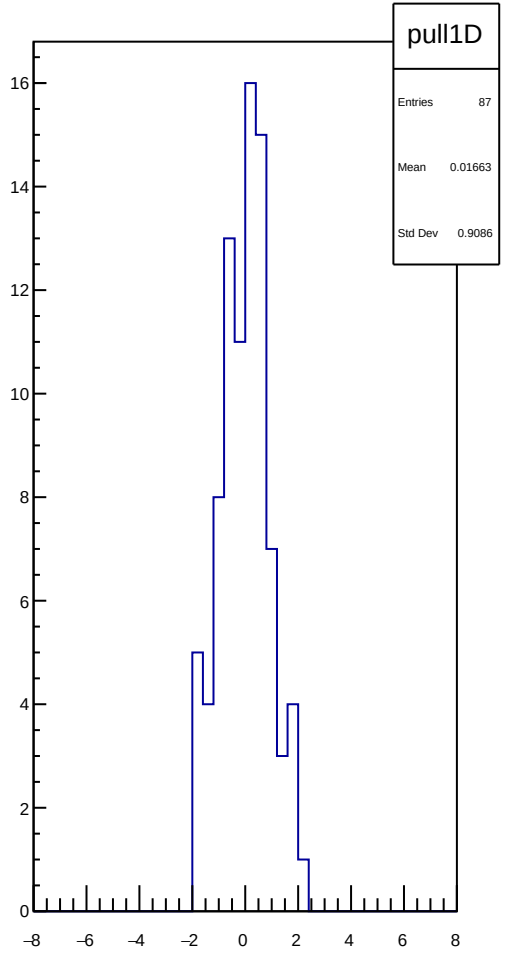

dit_asym_sam6_rms vs run
χ² / ndf 7.742e+04 / 86
p0 211.9 ± 0.1633
400
350
300
250
200
150

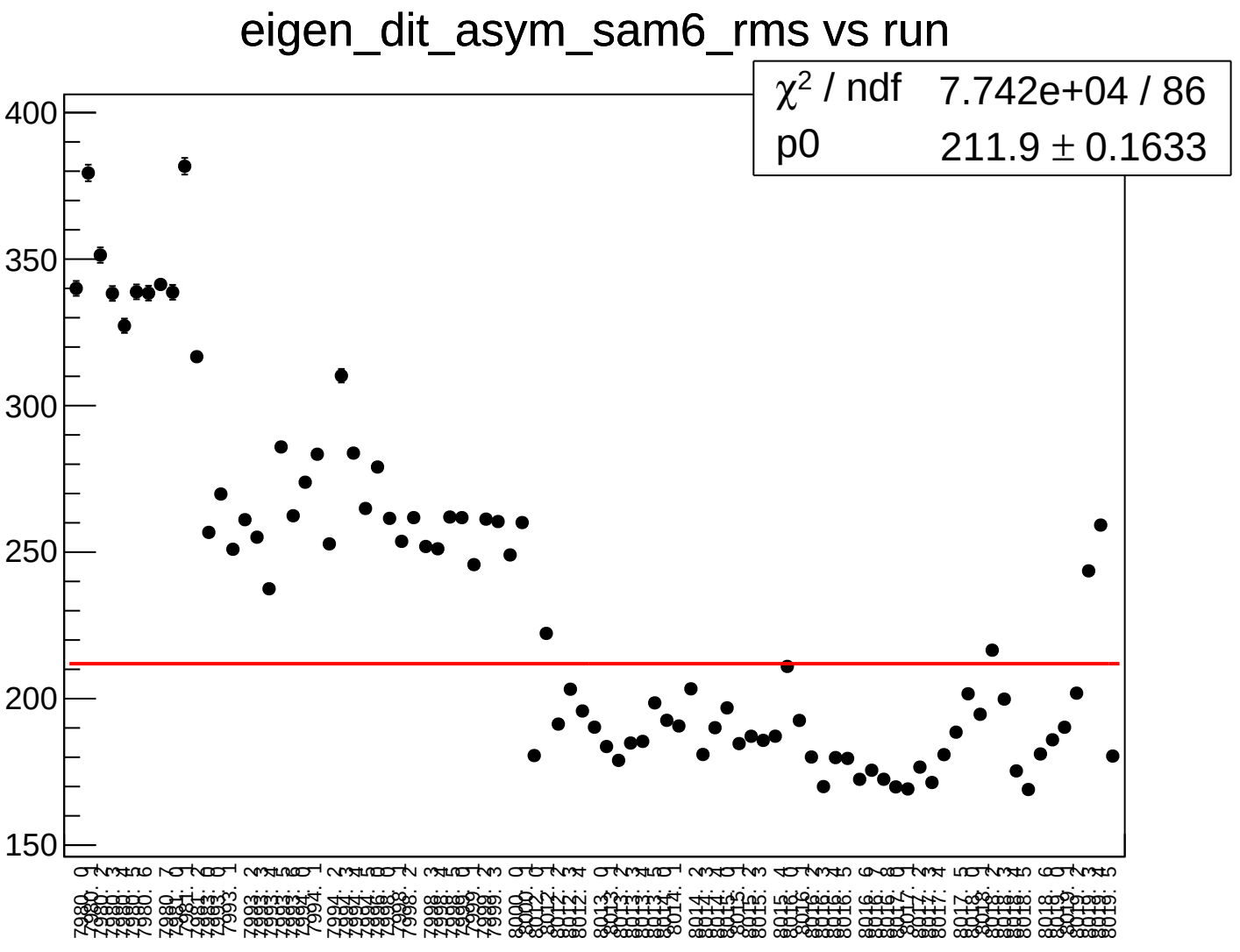

asym_sam6_dit_correction_mean vs run
χ² / ndf 102.1 / 86
p0 −2494 ± 1853
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 127.5
Std Dev 0
3
2
1
0
−1
−2

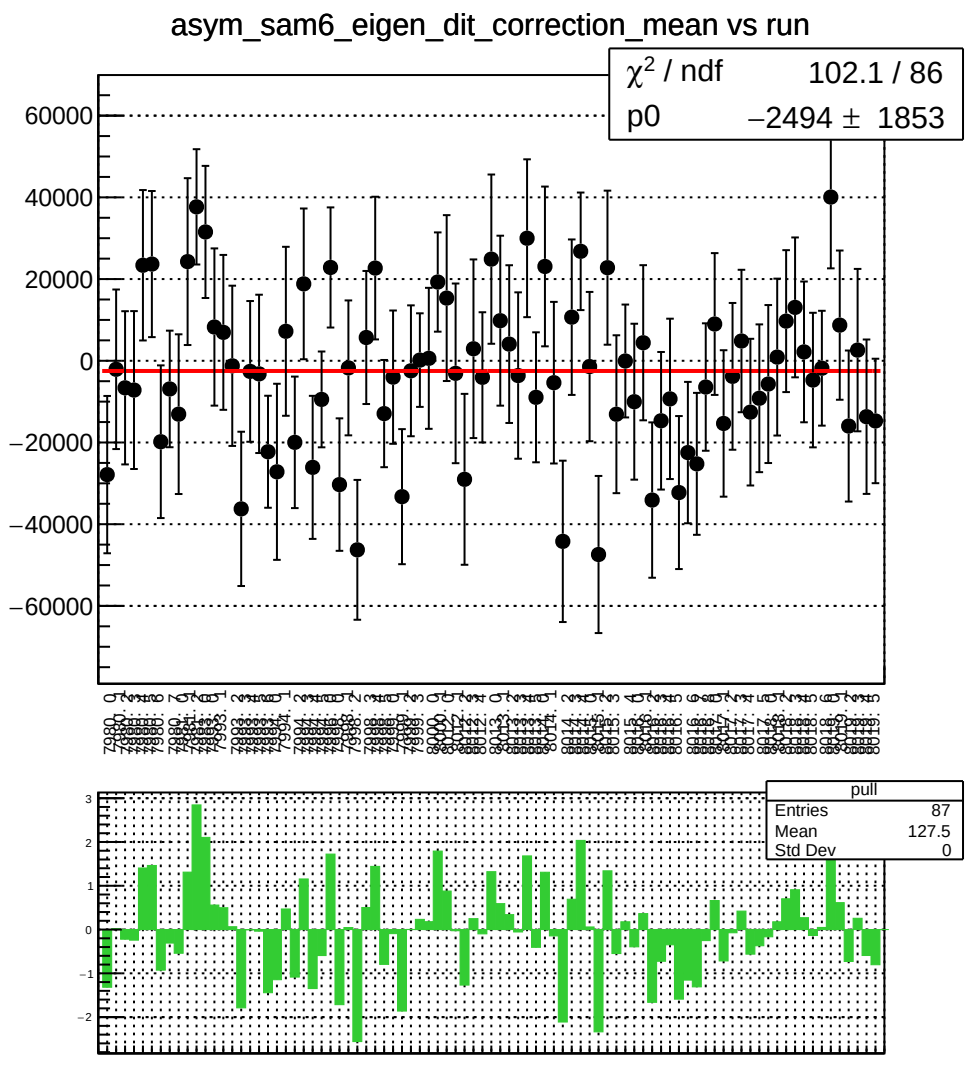

pull1D
Entries 87
Mean −0.01421
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

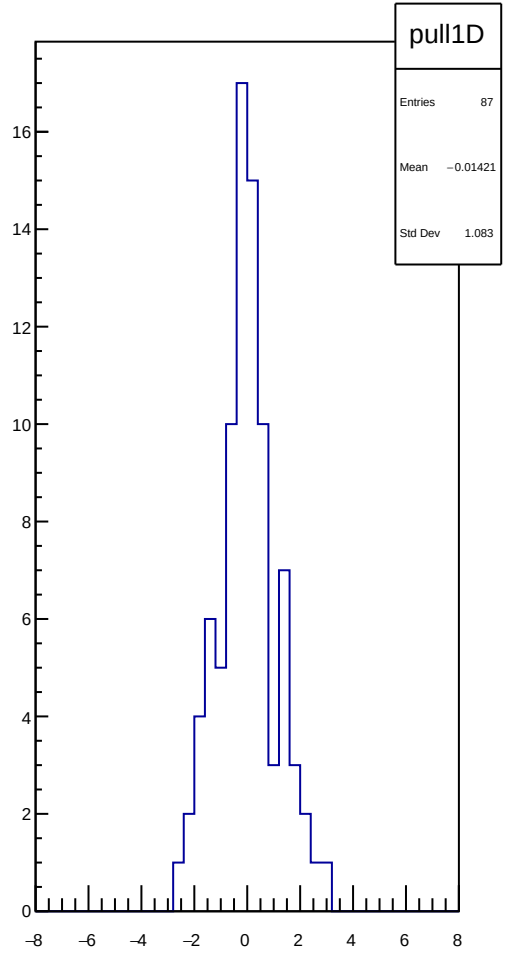

asym_sam6_dit_correction_rms vs run
χ² / ndf 1.098e+04 / 86
p0 1734 ± 1.311
2100
2000
1900
1800
1700
1600
1500

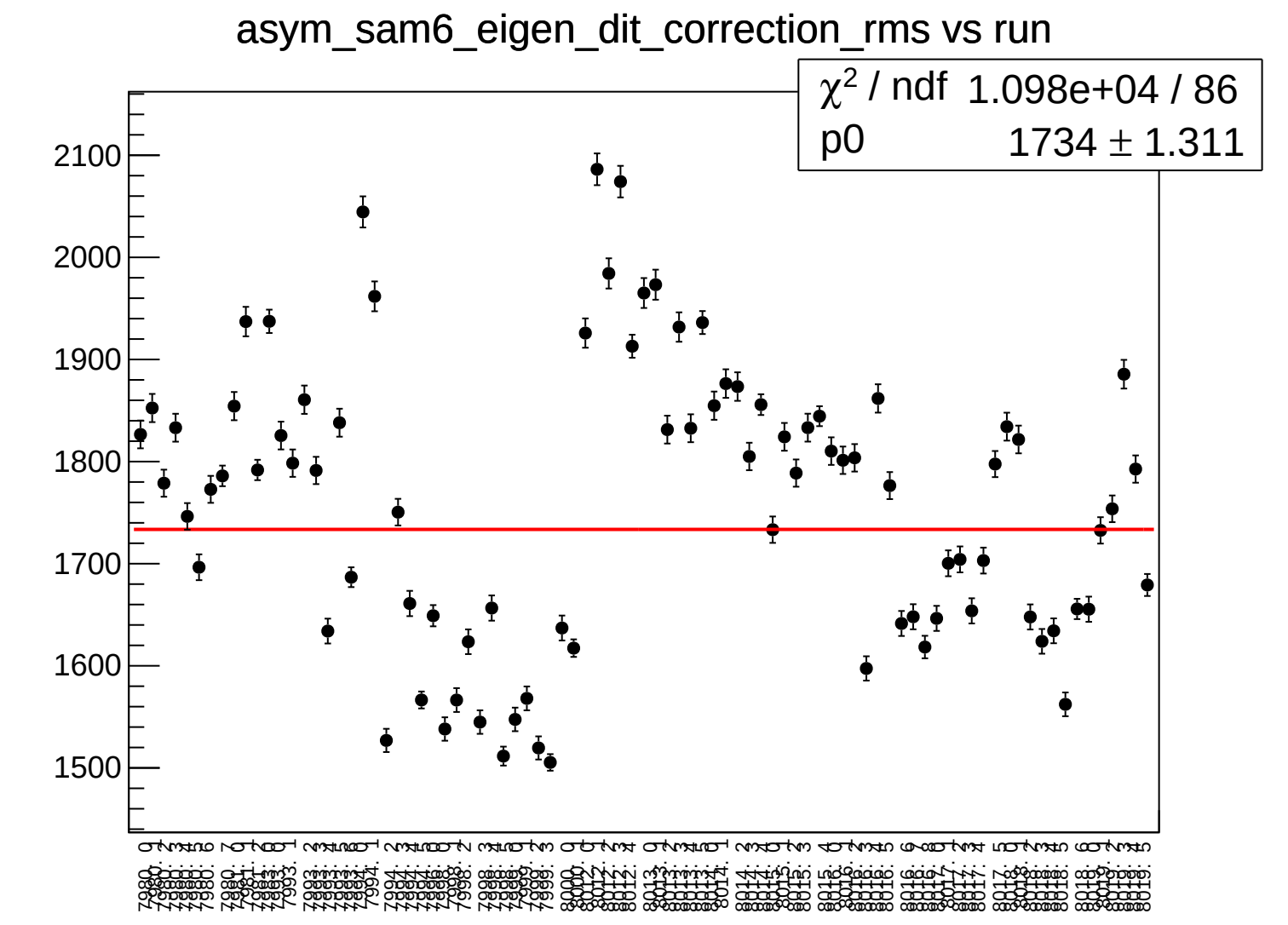

eigen_dit_asym_sam6_mean vs run
χ² / ndf 71.85 / 86
p0 262.2 ± 231
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −259
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

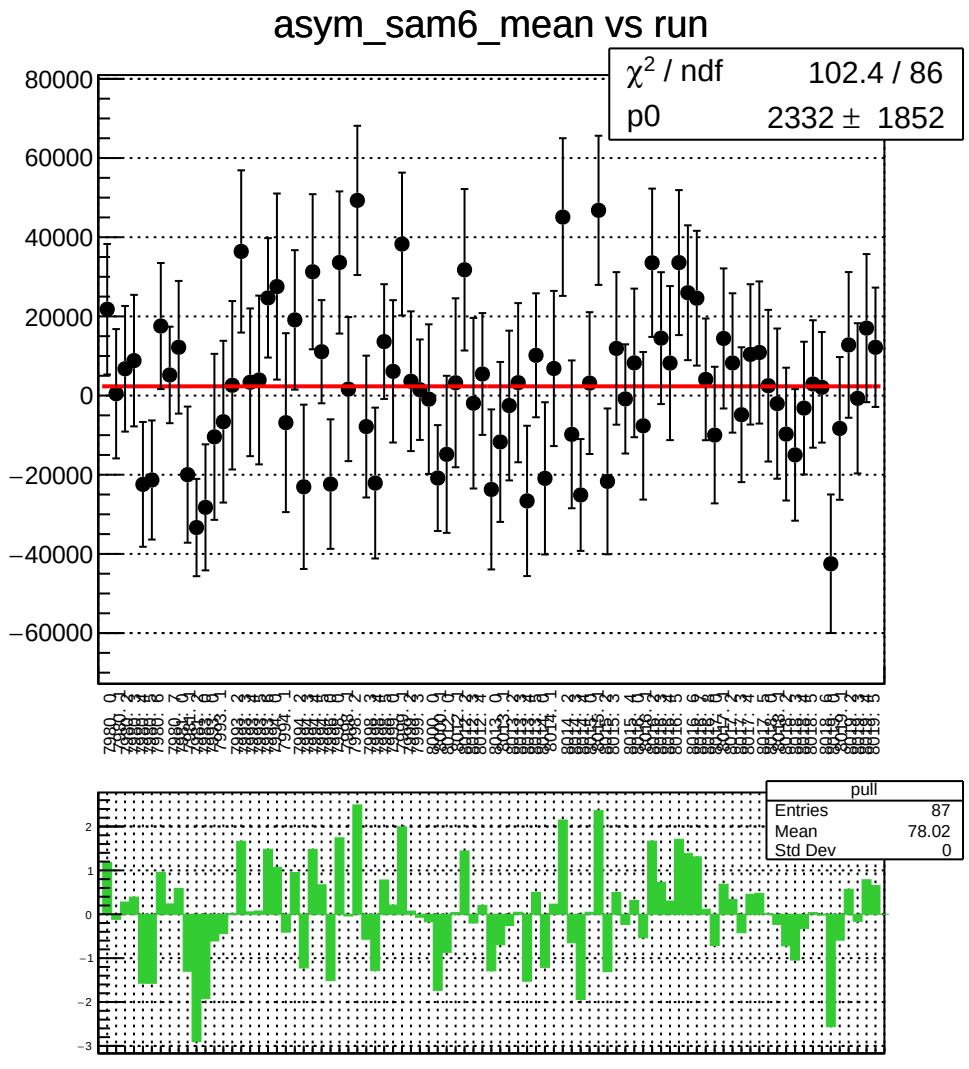

pull1D
Entries 87
Mean 0.01663
Std Dev 0.9086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

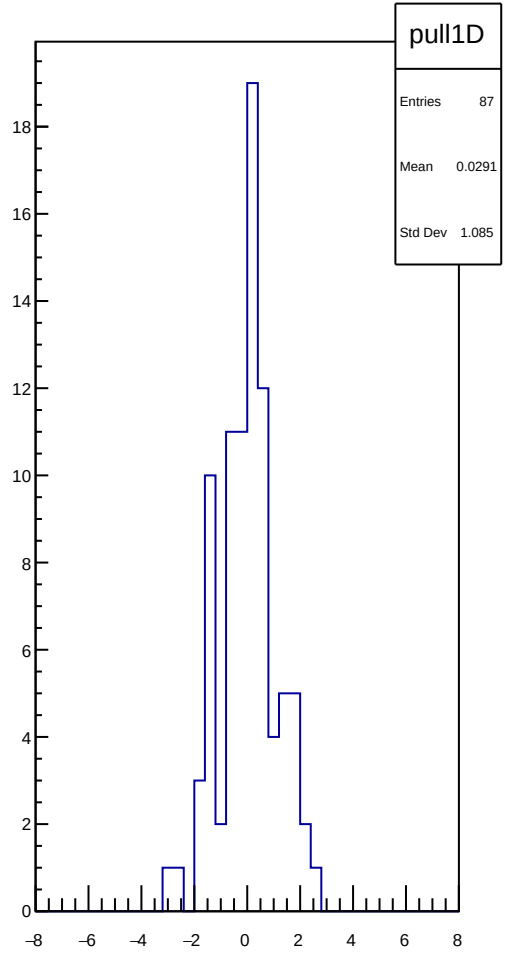

eigen_dit_asym_sam6_rms vs run
χ² / ndf 7.742e+04 / 86
p0 211.9 ± 0.1633
400
350
300
250
200
150

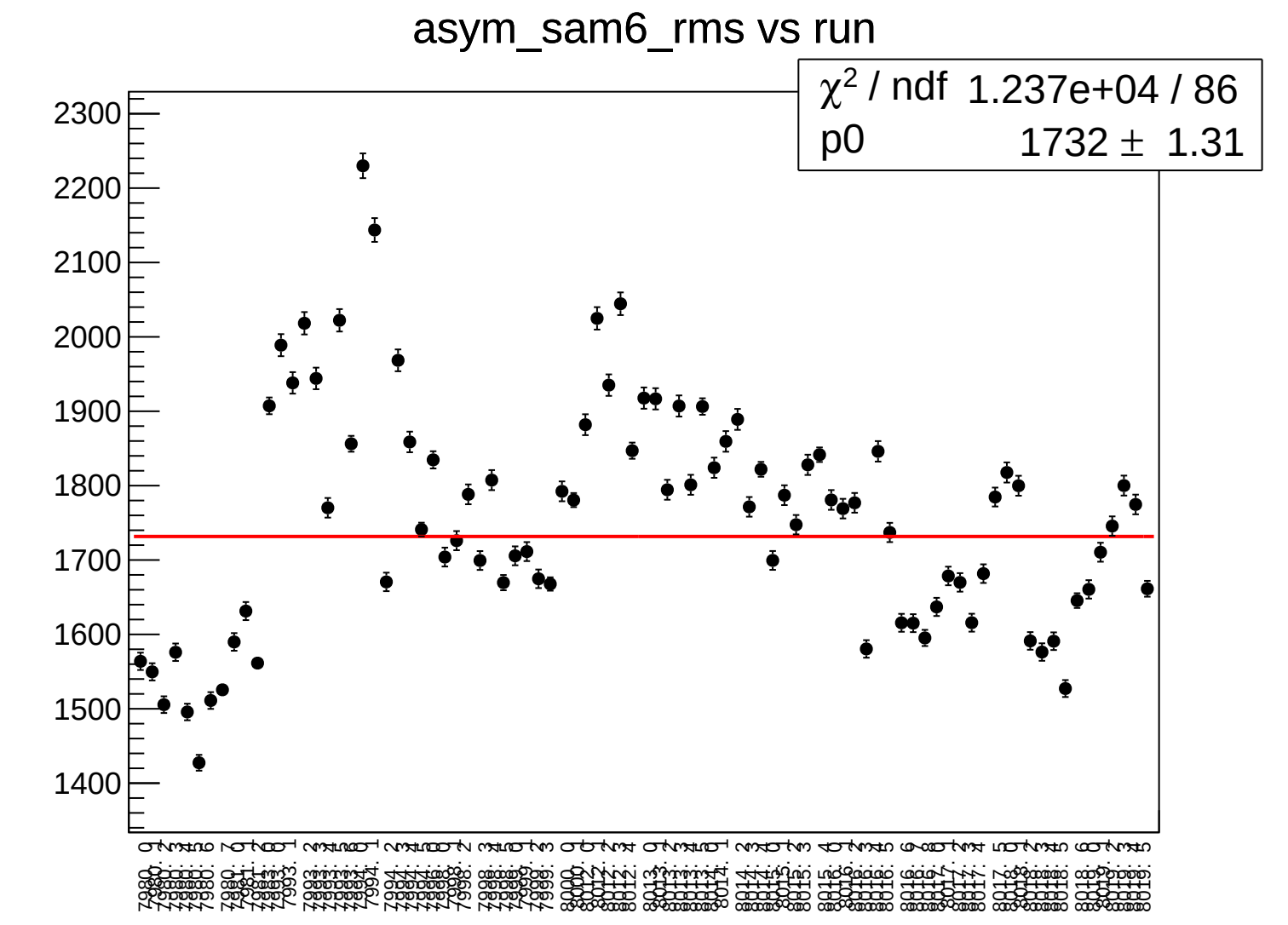

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 102.1 / 86
p0 −2494 ± 1853
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 127.5
Std Dev 0
3
2
1
0
−1
−2

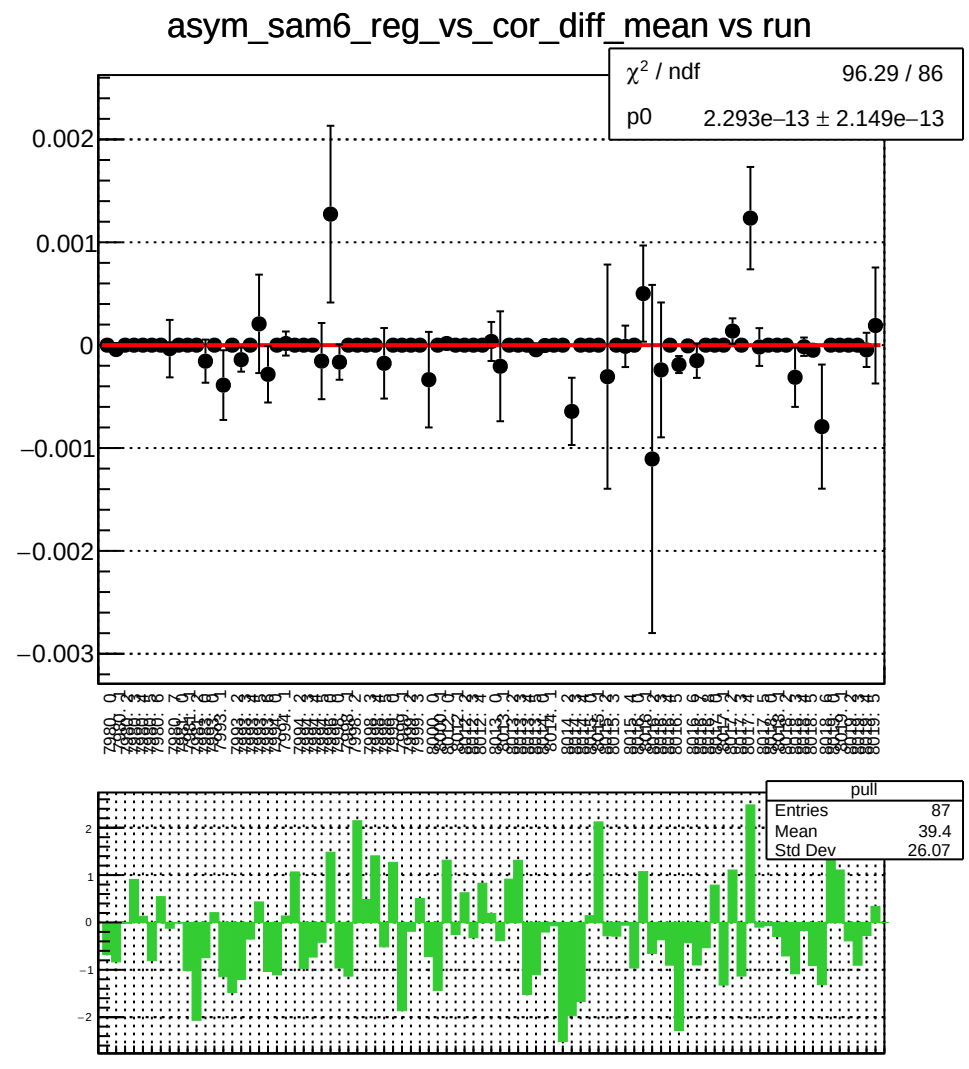

pull1D
Entries 87
Mean −0.01421
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

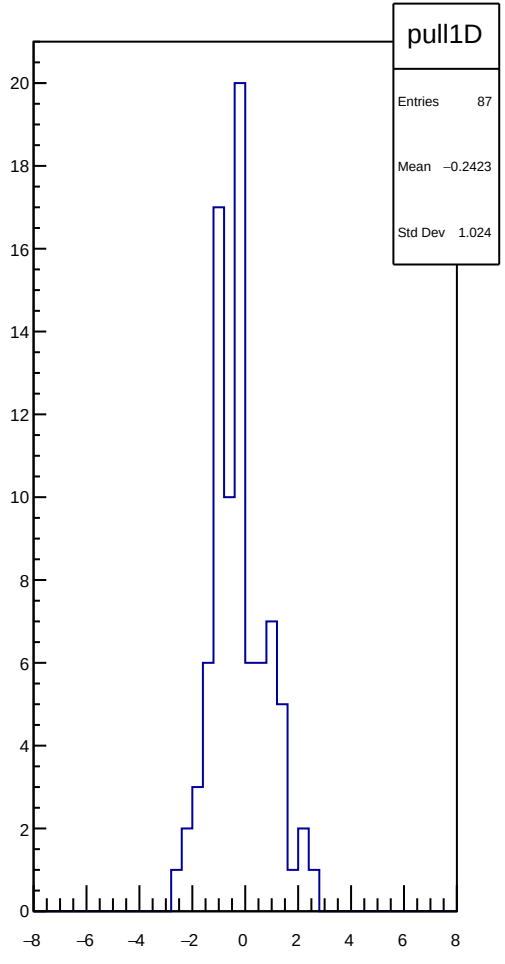

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1.098e+04 / 86
p0 1734 ± 1.311
2100
2000
1900
1800
1700
1600
1500

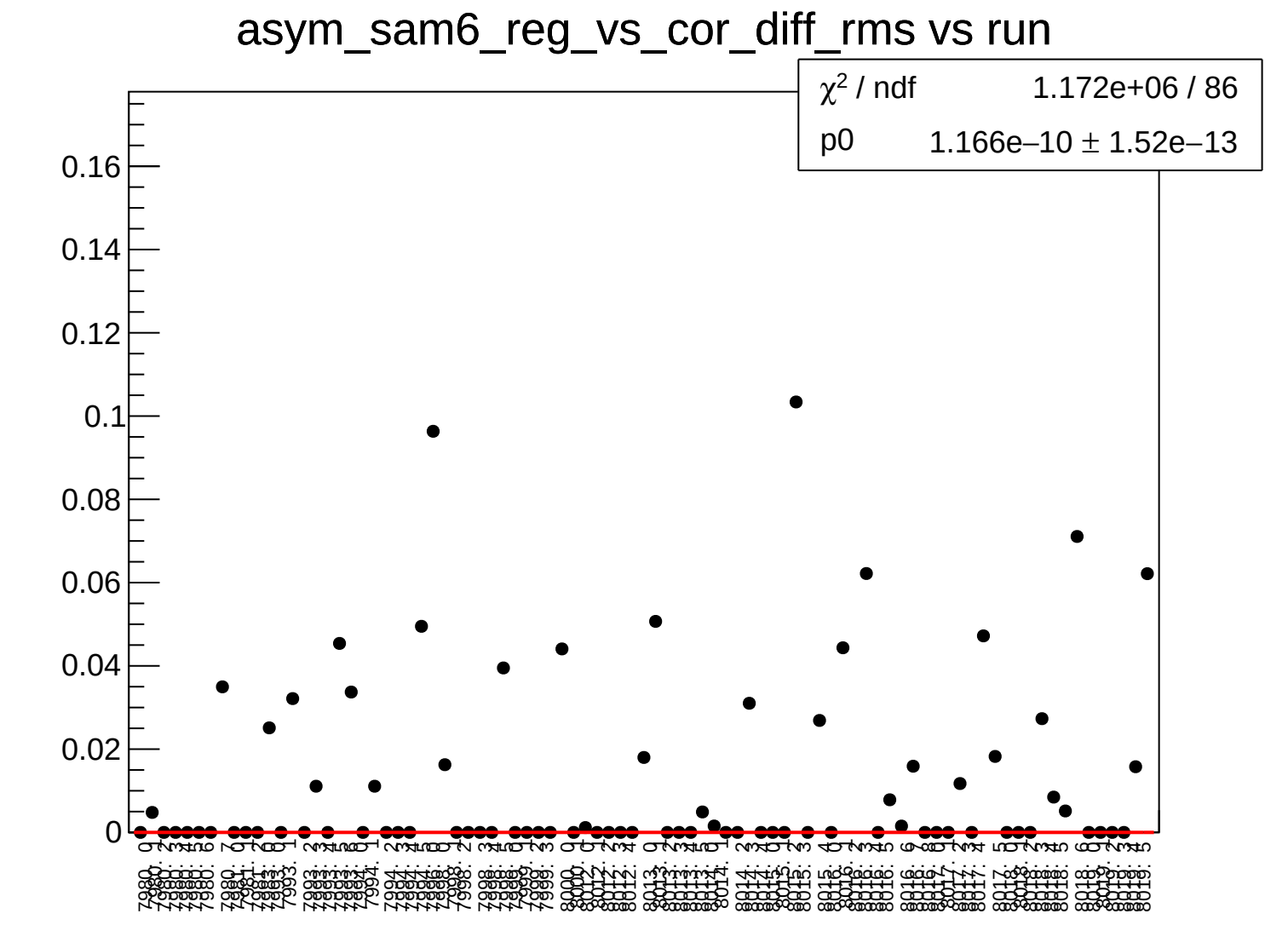

asym_sam6_mean vs run
χ² / ndf 102.4 / 86
p0 2332 ± 1852
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 78.02
Std Dev 0
2
1
0
−1
−2
−3

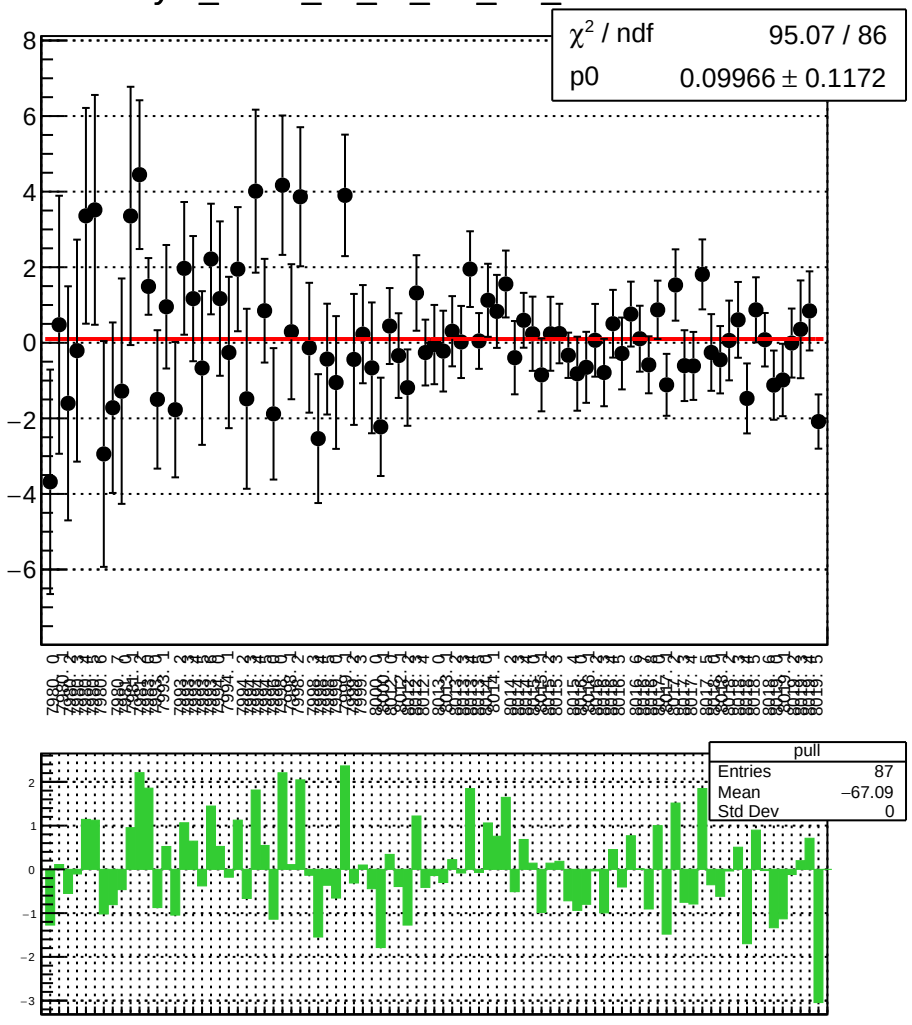

pull1D
Entries 87
Mean 0.0291
Std Dev 1.085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

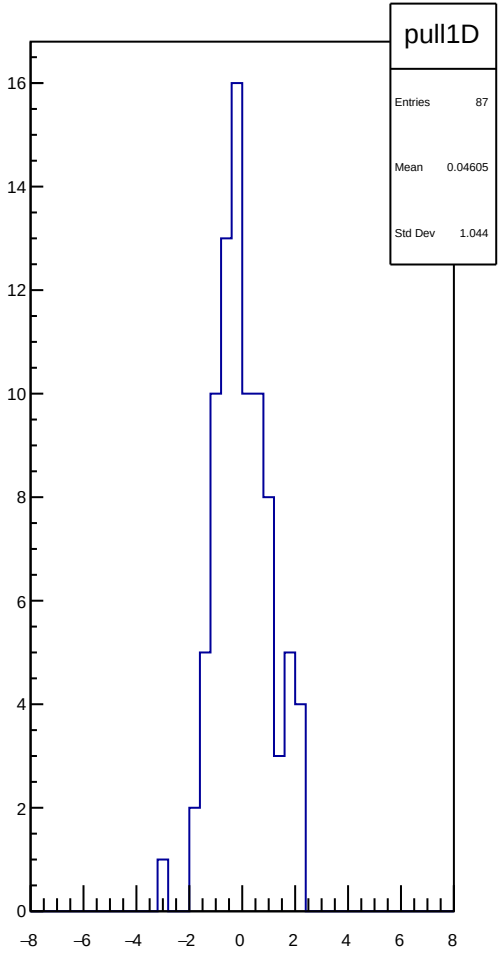

asym_sam6_rms vs run
χ² / ndf 1.237e+04 / 86
p0 1732 ± 1.31
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

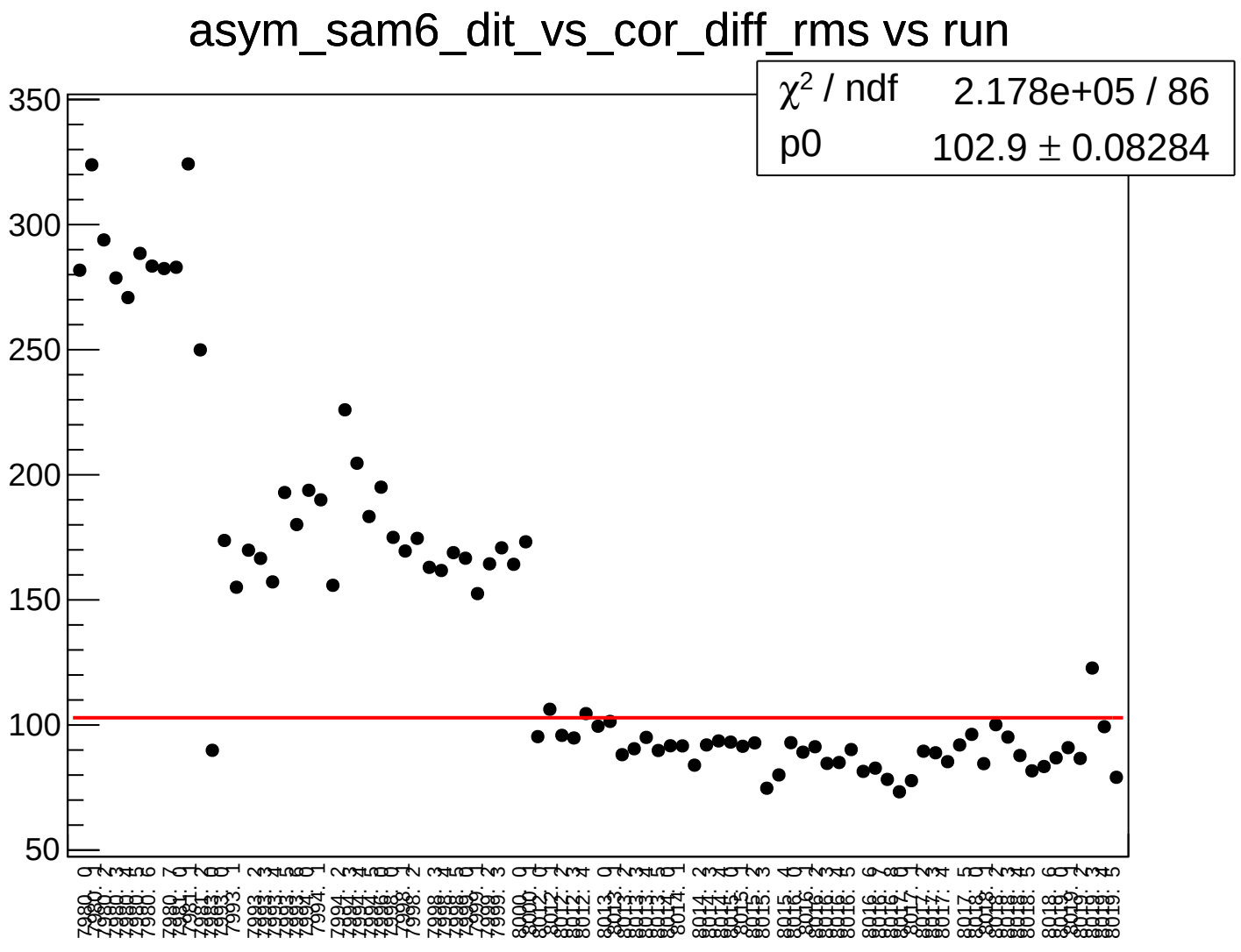

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 96.29 / 86
p0 2.293e−13 ± 2.149e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 87
Mean 39.4
Std Dev 26.07
2
1
0
−1
−2

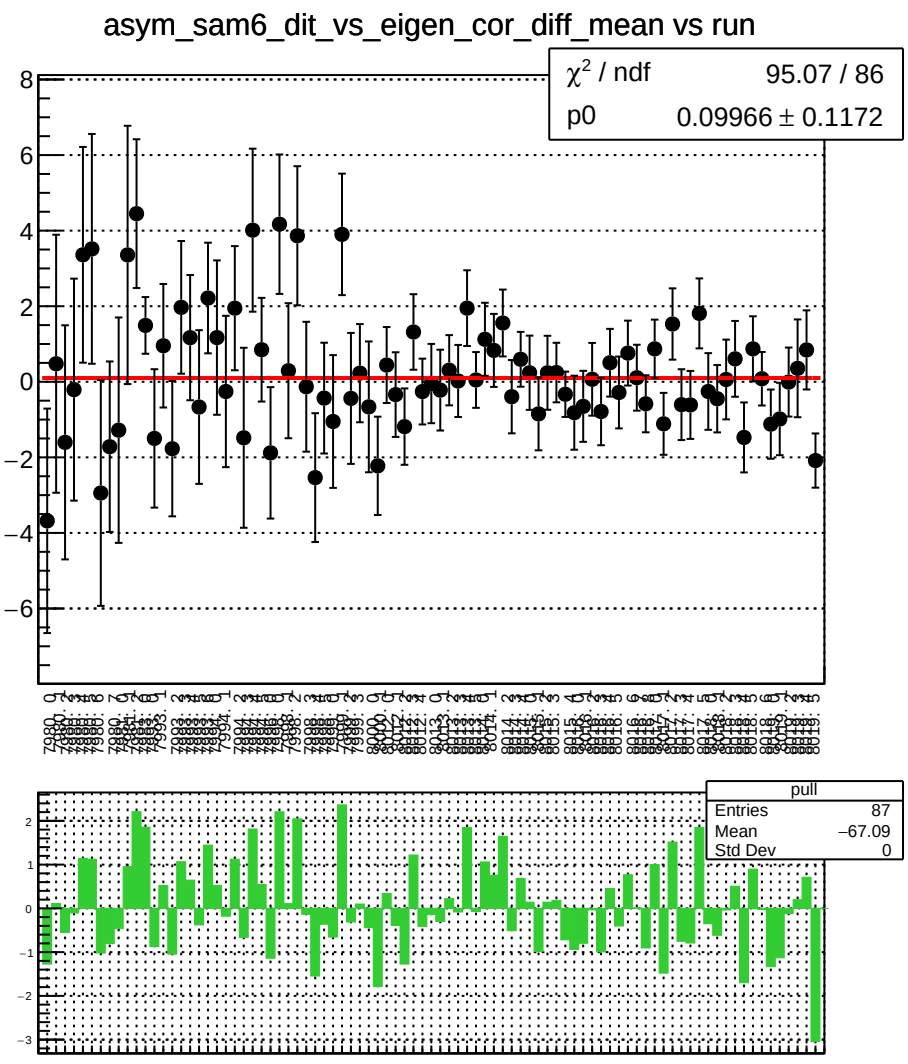

pull1D
Entries 87
Mean −0.2423
Std Dev 1.024
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

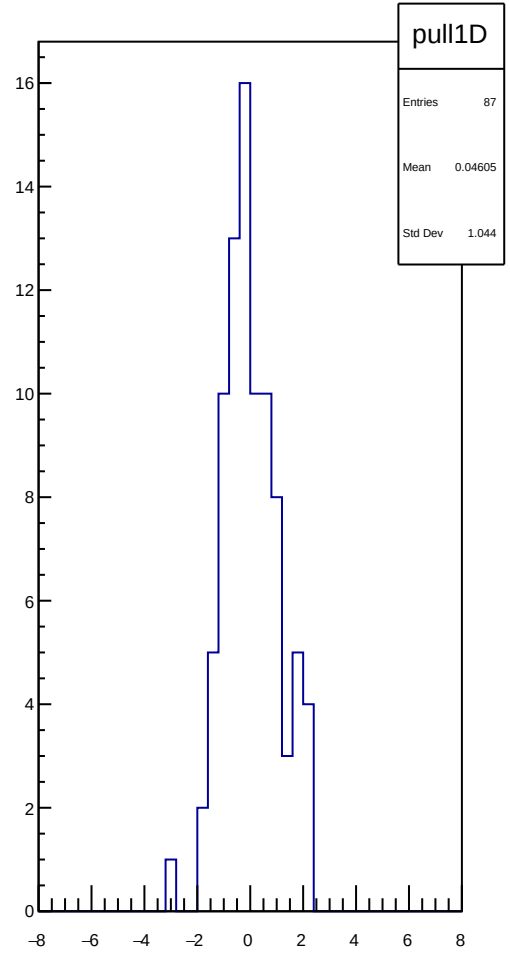

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.172e+06 / 86
p0 1.166e−10 ± 1.52e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

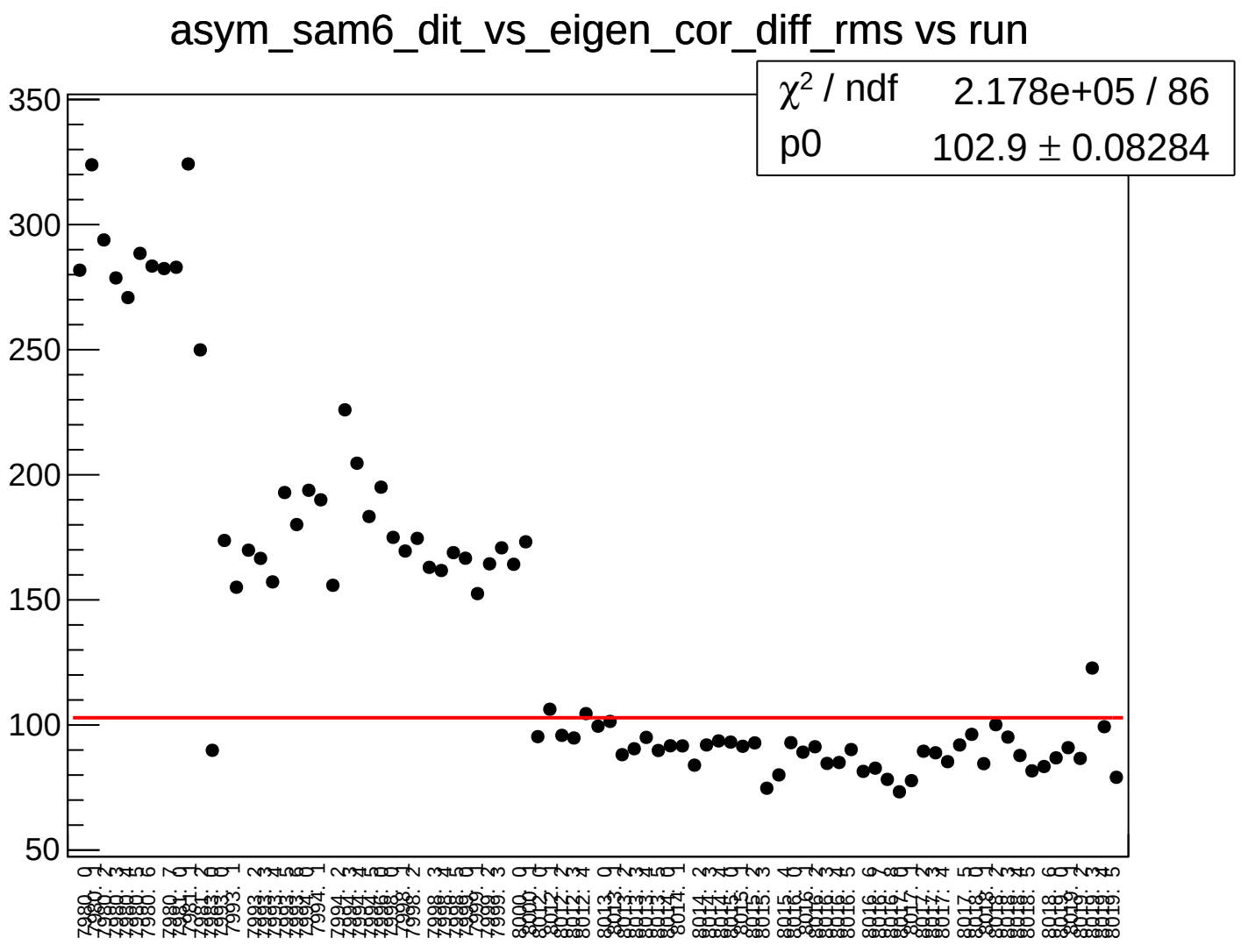

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 95.07 / 86
p0 0.09966 ± 0.1172
pull
Entries 87
Mean −67.09
Std Dev 0

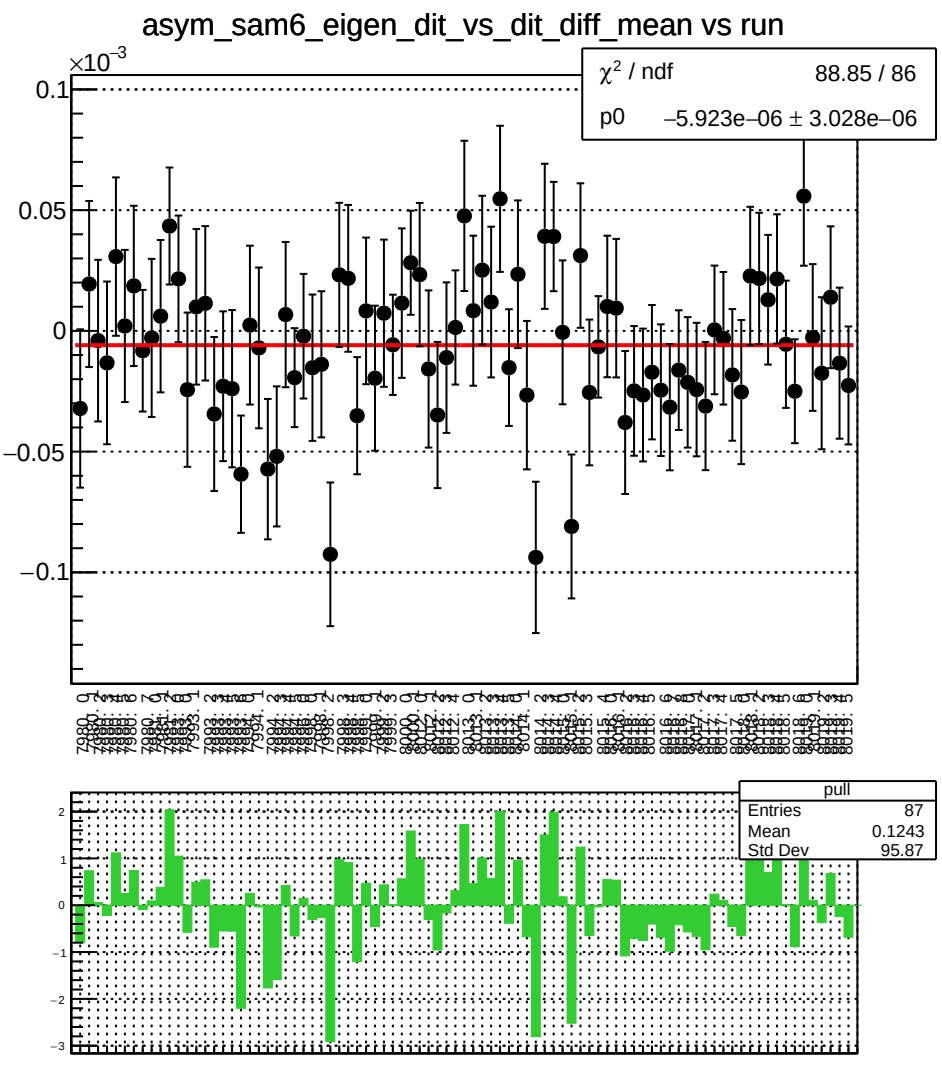

pull1D
Entries 87
Mean 0.04605
Std Dev 1.044

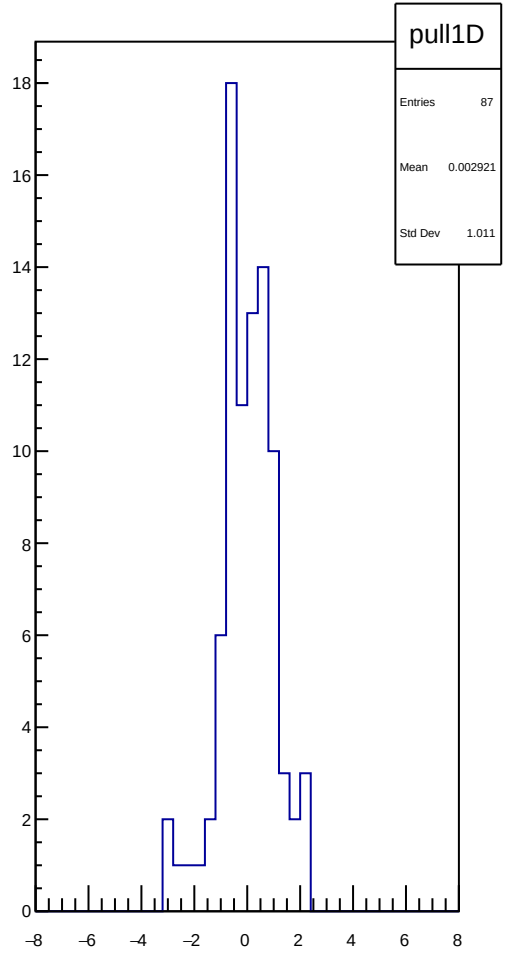

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 2.178e+05 / 86
p0 102.9 ± 0.08284
350
300
250
200
150
100
50

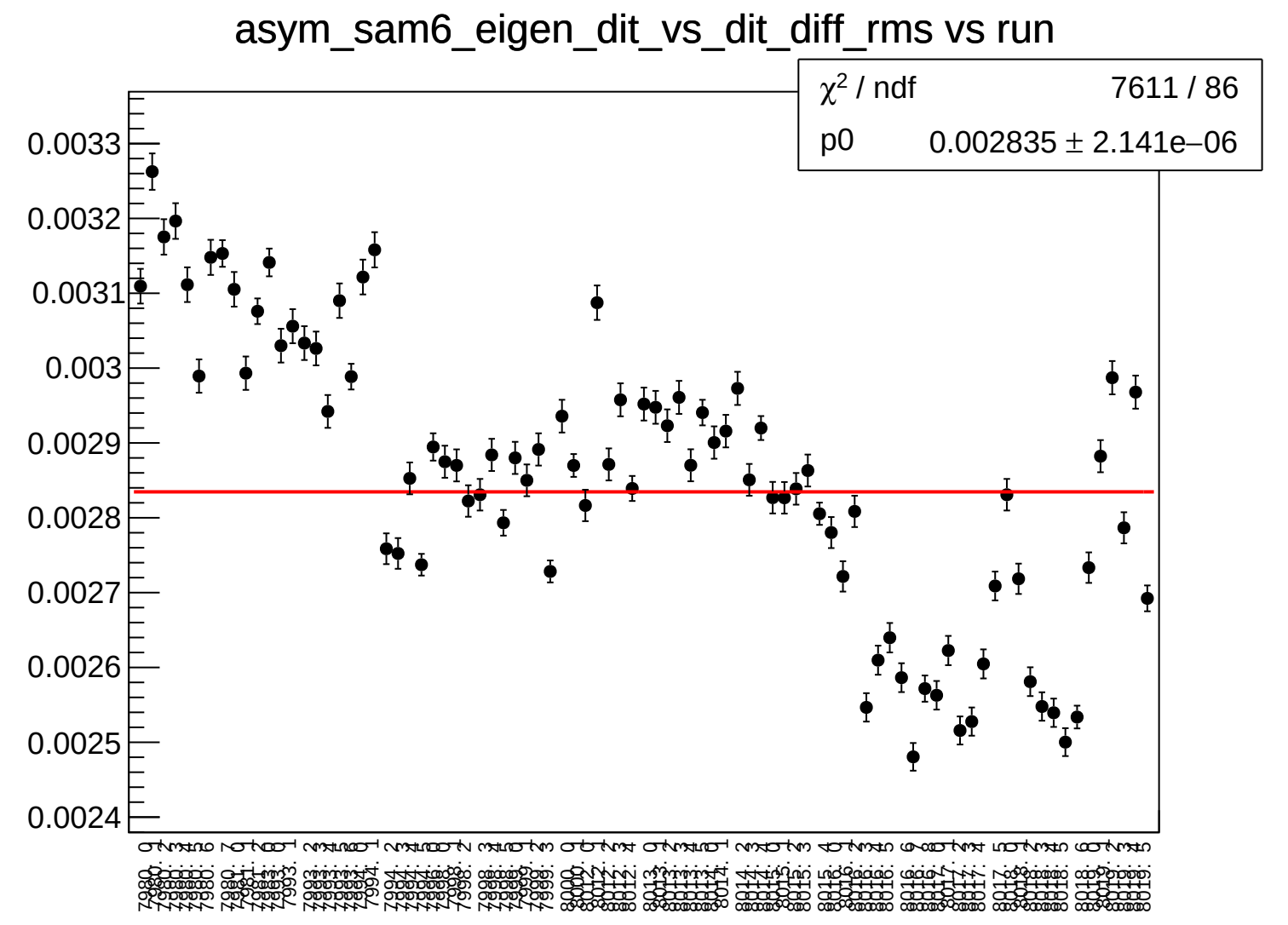

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.07 / 86
p0 0.09966 ± 0.1172
pull
Entries 87
Mean −67.09
Std Dev 0

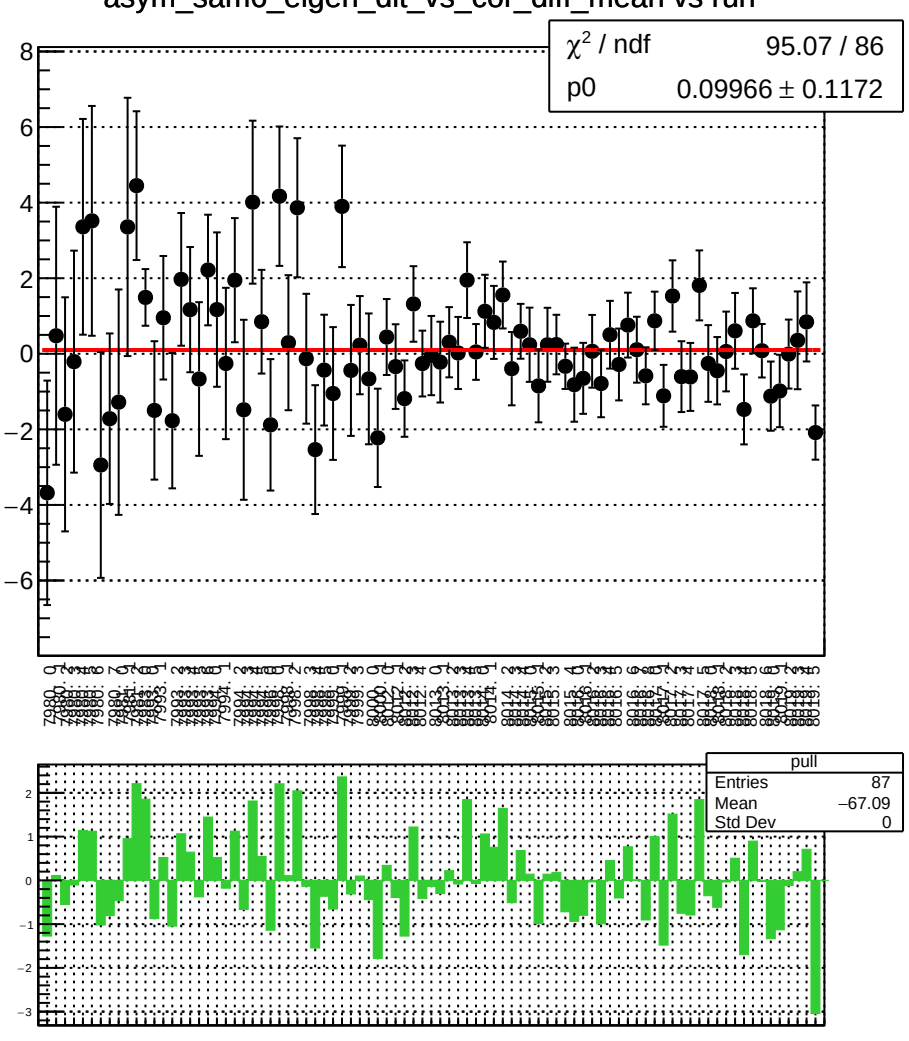

pull1D
Entries 87
Mean 0.04605
Std Dev 1.044

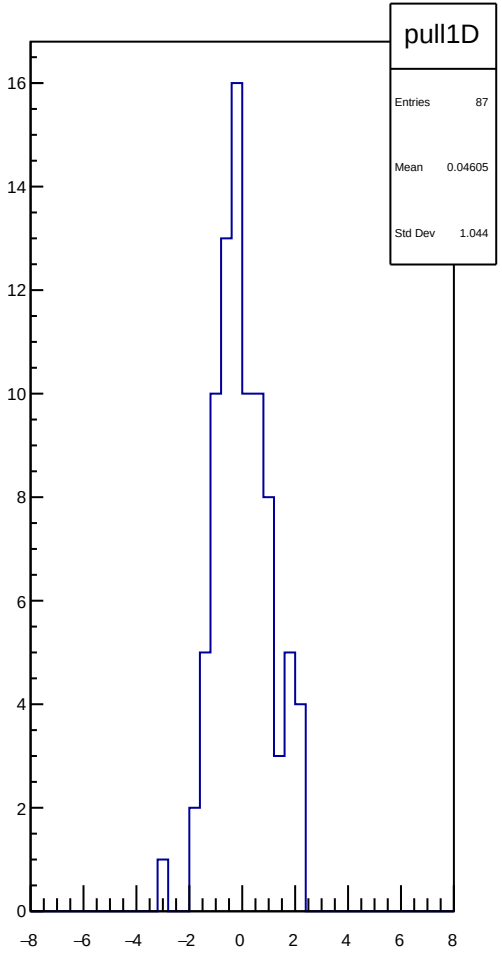

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.178e+05 / 86
p0 102.9 ± 0.08284
350
300
250
200
150
100
50

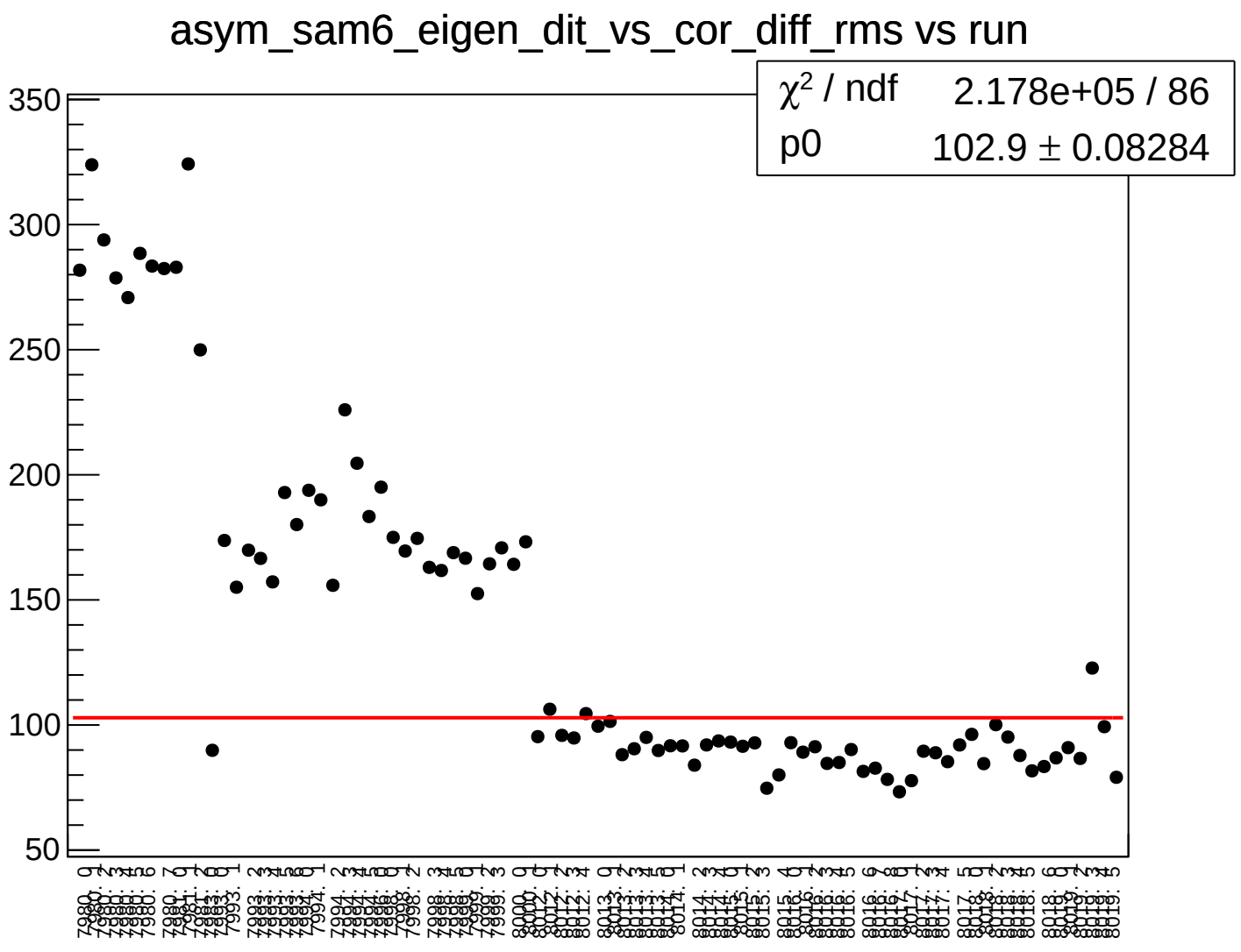

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.85 / 86
p0 −5.923e−06 ± 3.028e−06
pull
Entries 87
Mean 0.1243
Std Dev 95.87

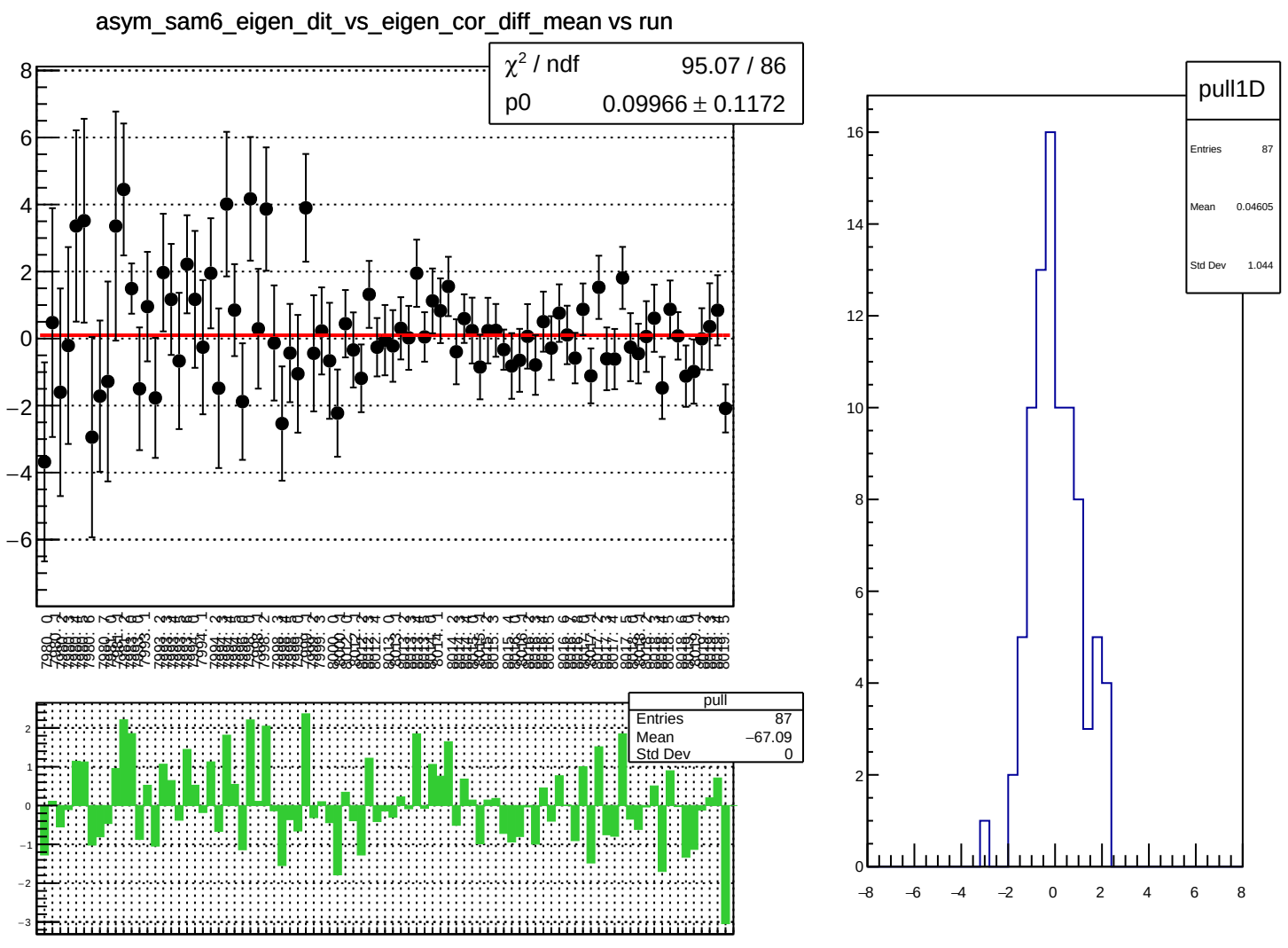

pull1D
Entries 87
Mean 0.002921
Std Dev 1.011

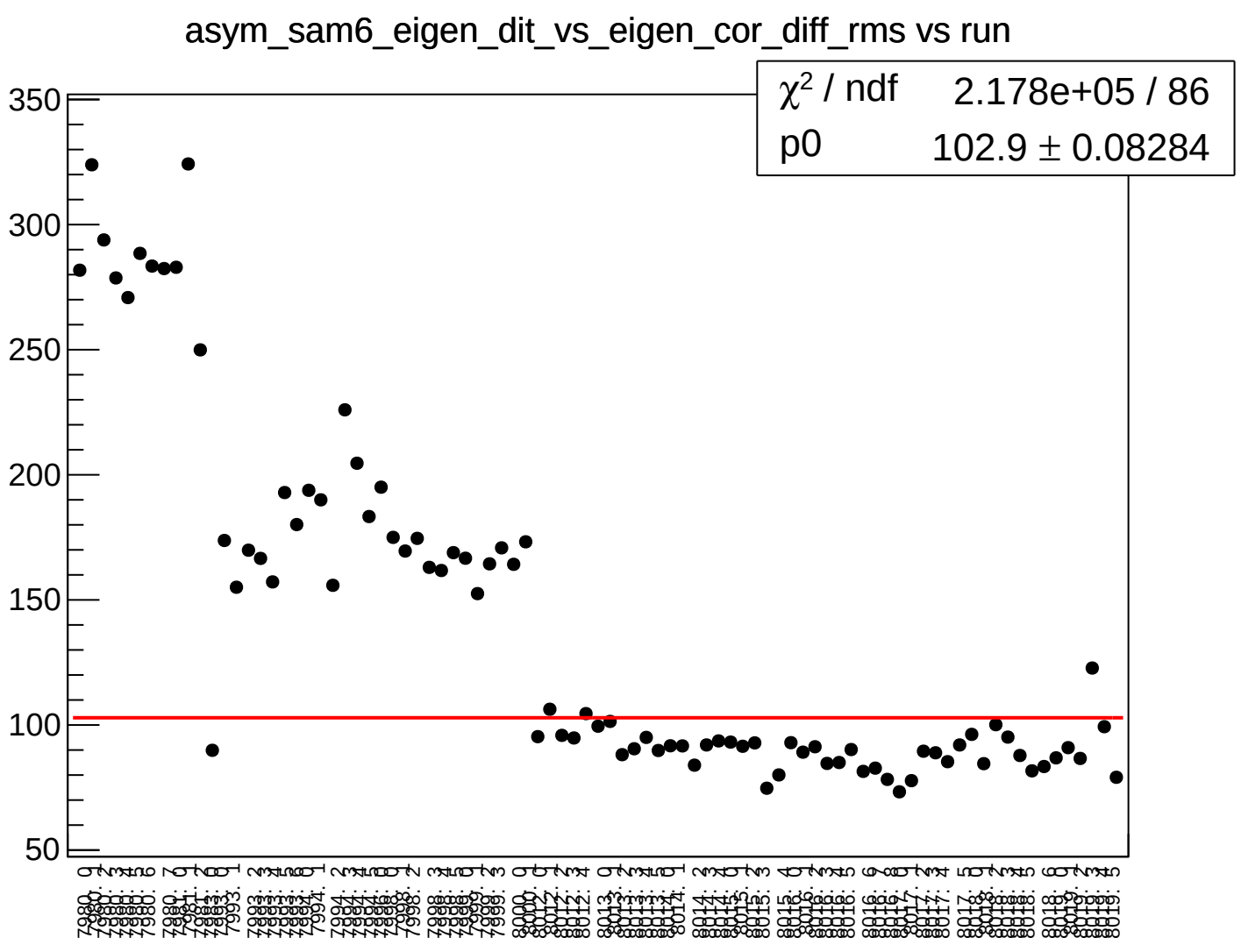

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7611 / 86
p0 0.002835 ± 2.141e−06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

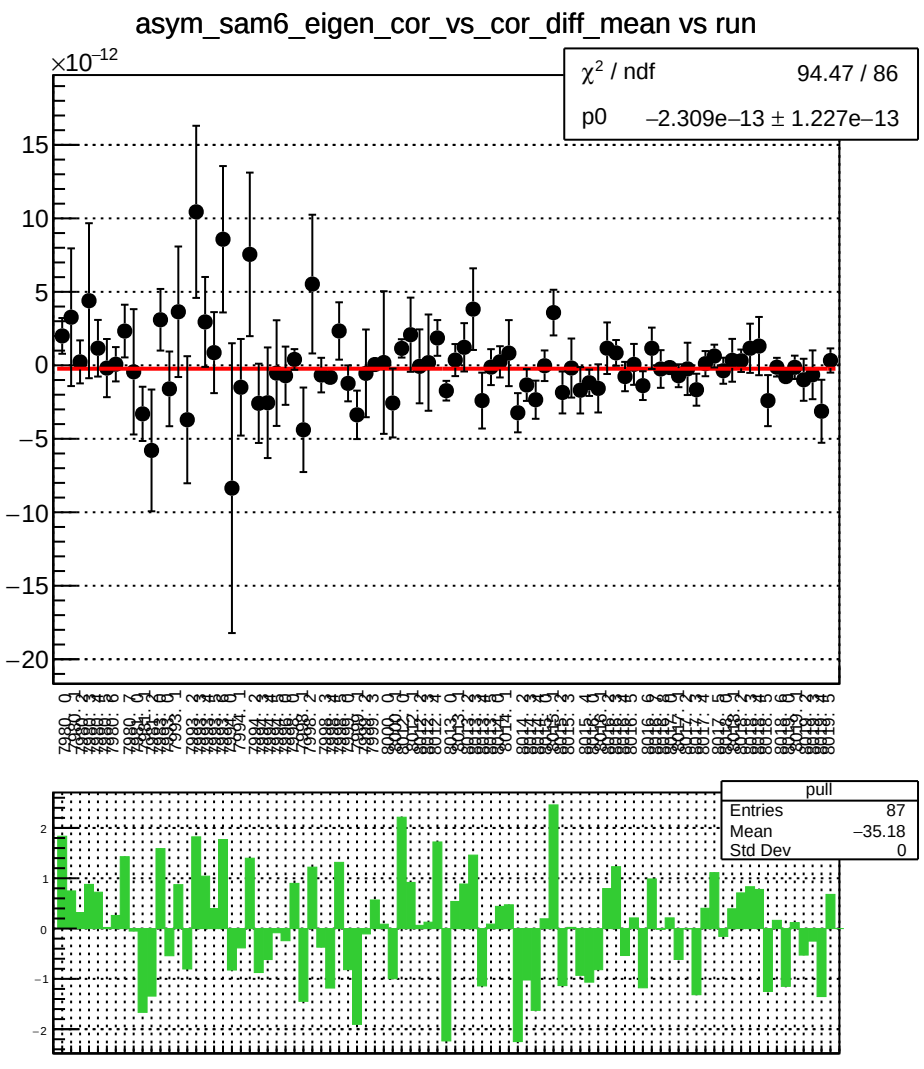

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.07 / 86
p0 0.09966 ± 0.1172
pull
Entries 87
Mean −67.09
Std Dev 0

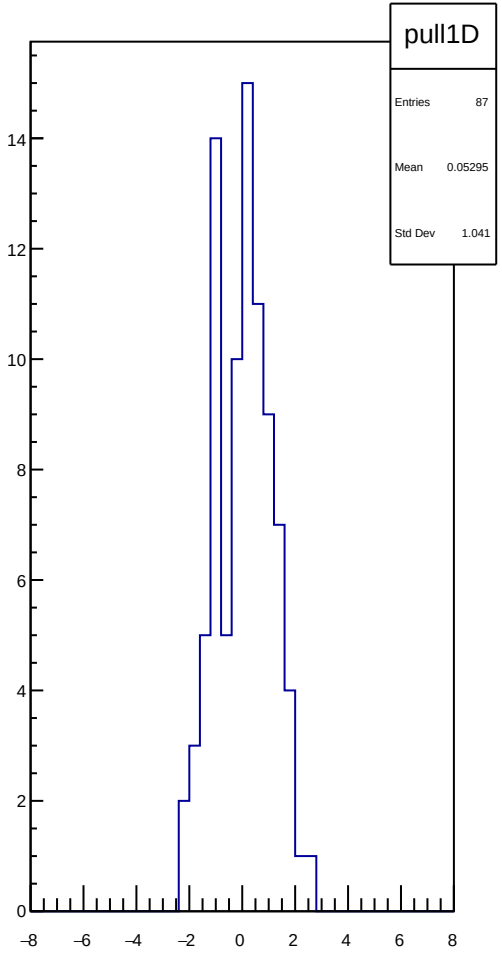

pull1D
Entries 87
Mean 0.04605
Std Dev 1.044

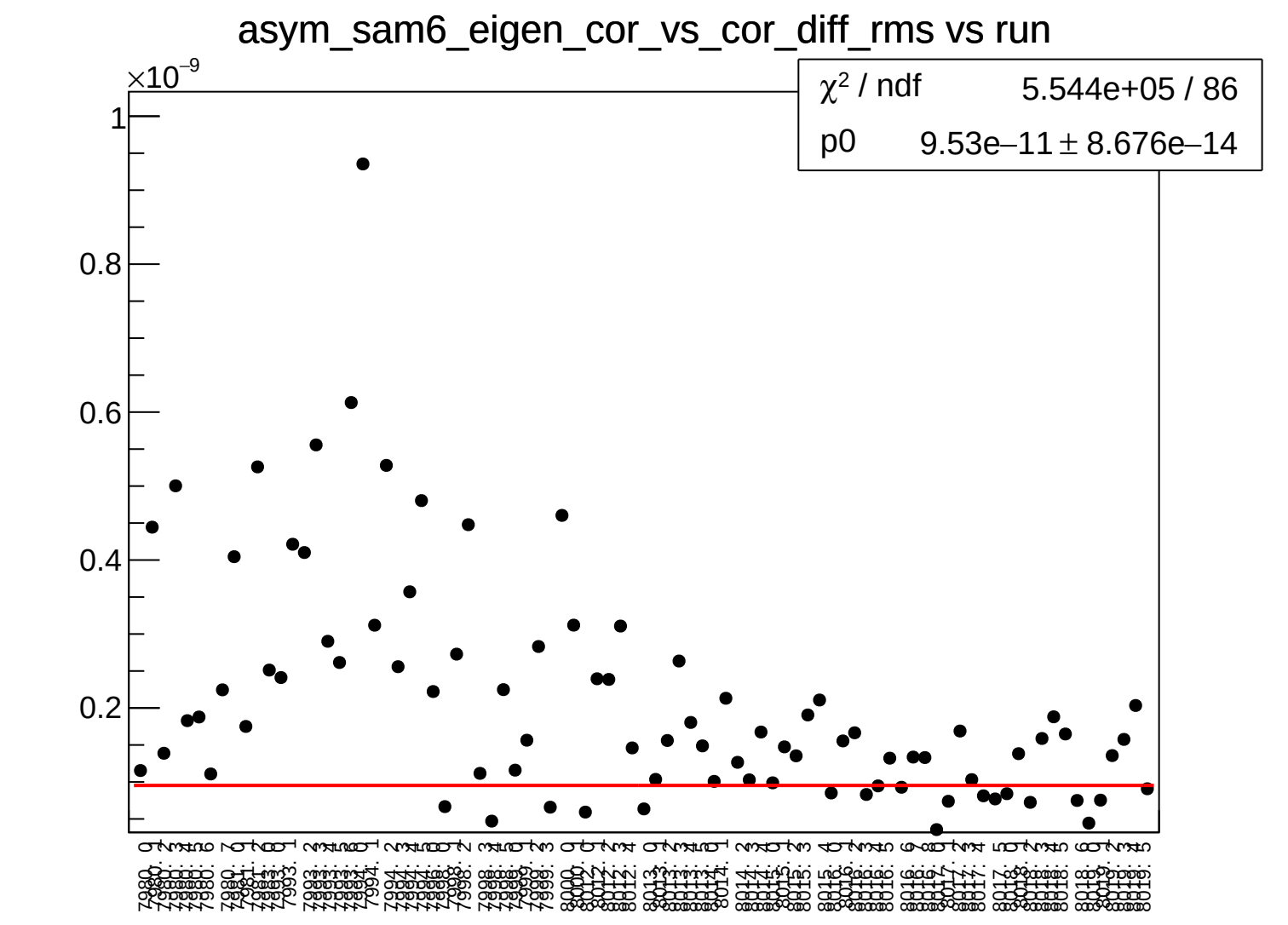

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.178e+05 / 86
p0 102.9 ± 0.08284
350
300
250
200
150
100
50

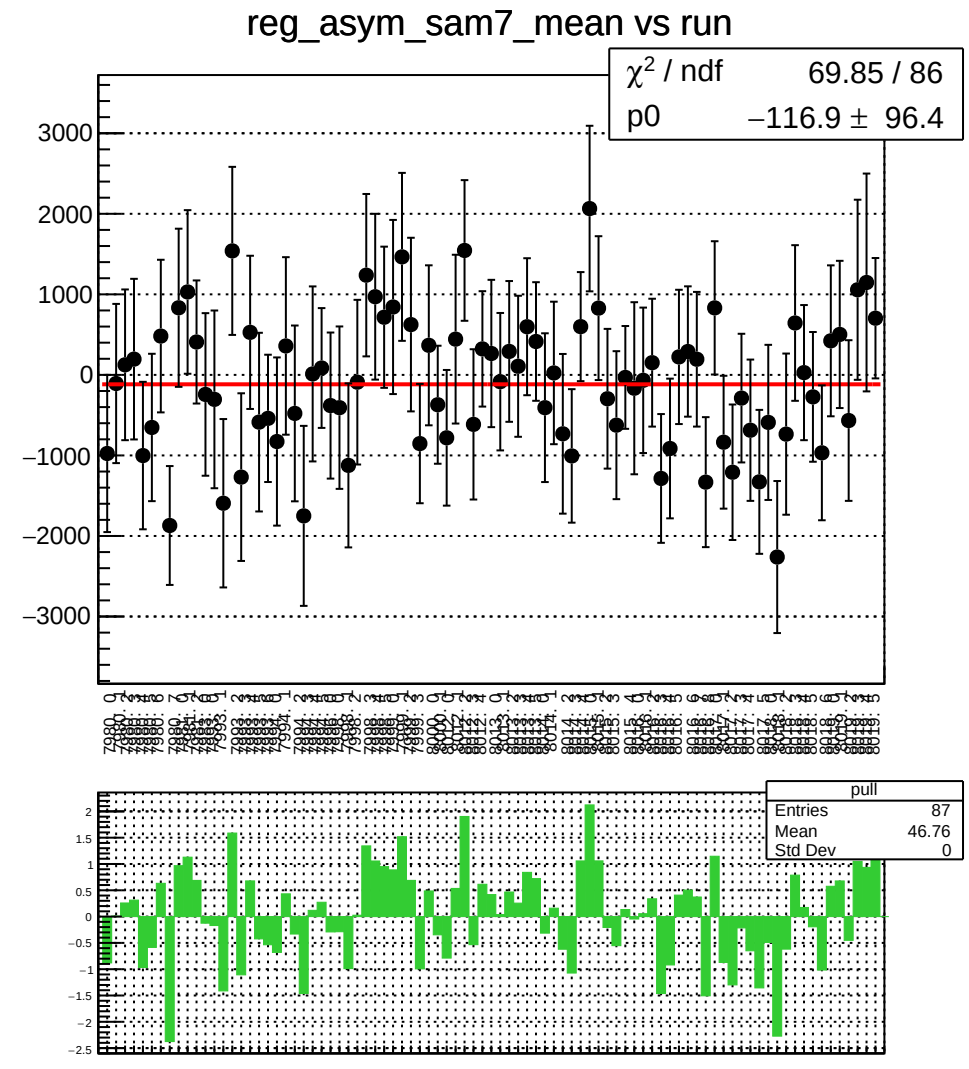

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.07 / 86
p0 0.09966 ± 0.1172
pull
Entries 87
Mean −67.09
Std Dev 0
pull1D
Entries 87
Mean 0.04605
Std Dev 1.044

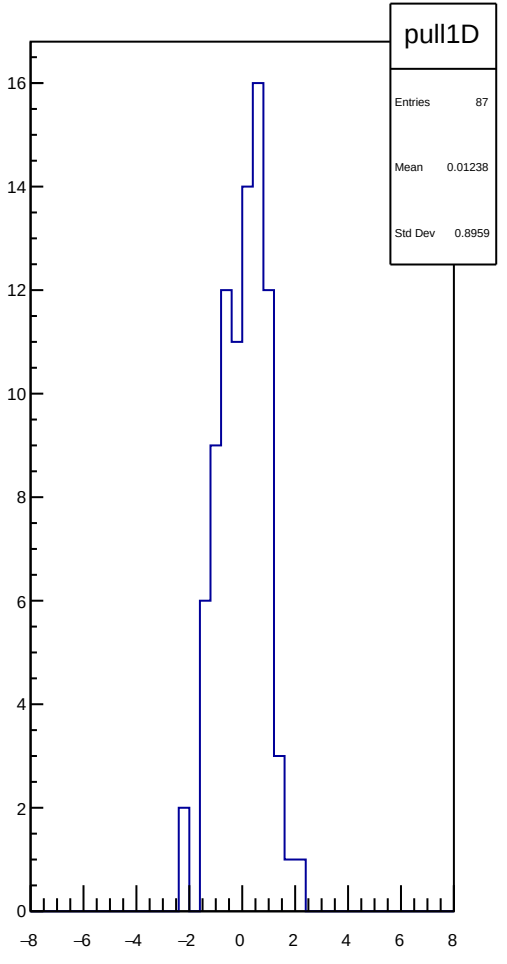

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.178e+05 / 86
p0 102.9 ± 0.08284
350
300
250
200
150
100
50

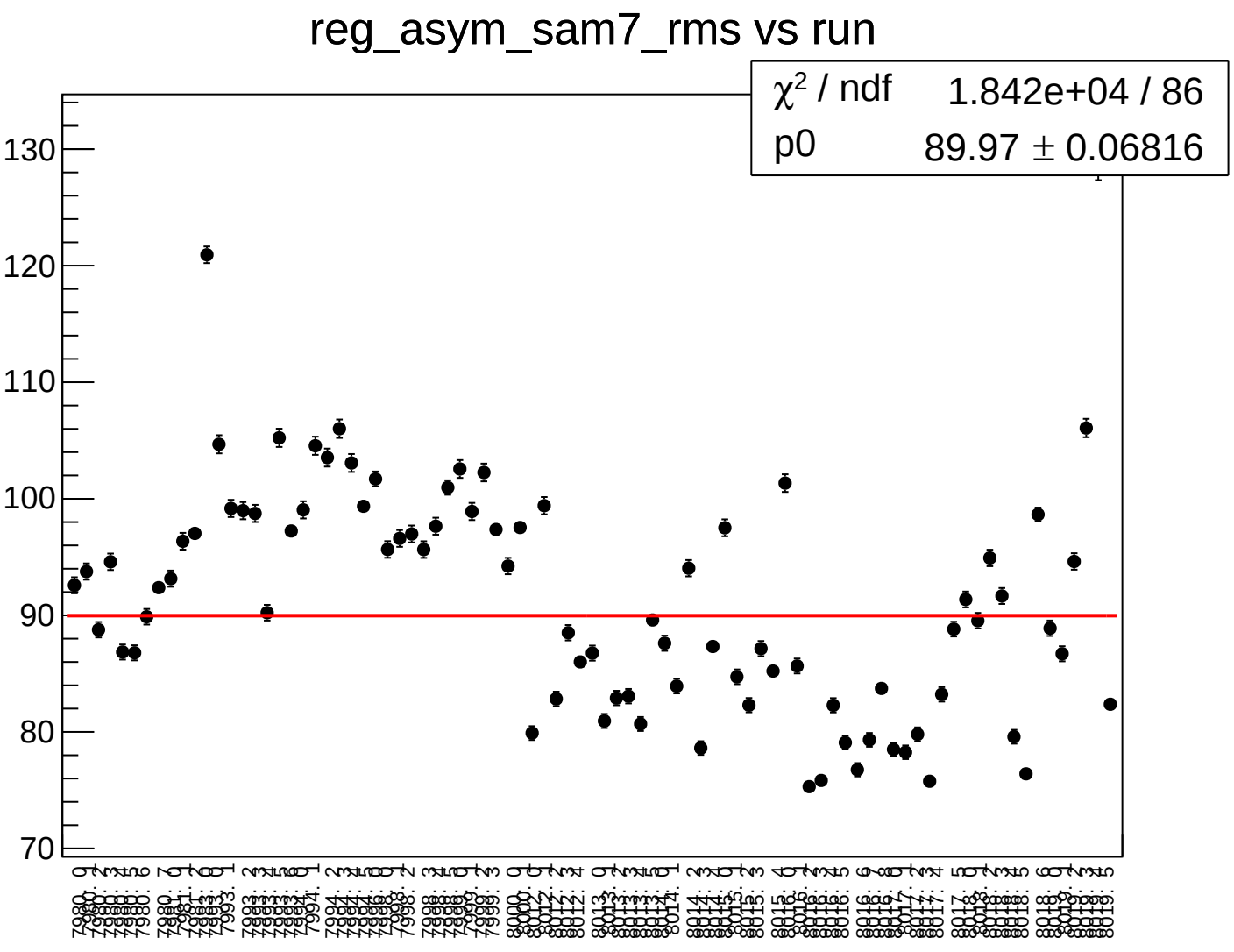

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.47 / 86
p0 −2.309e−13 ± 1.227e−13
pull
Entries 87
Mean −35.18
Std Dev 0

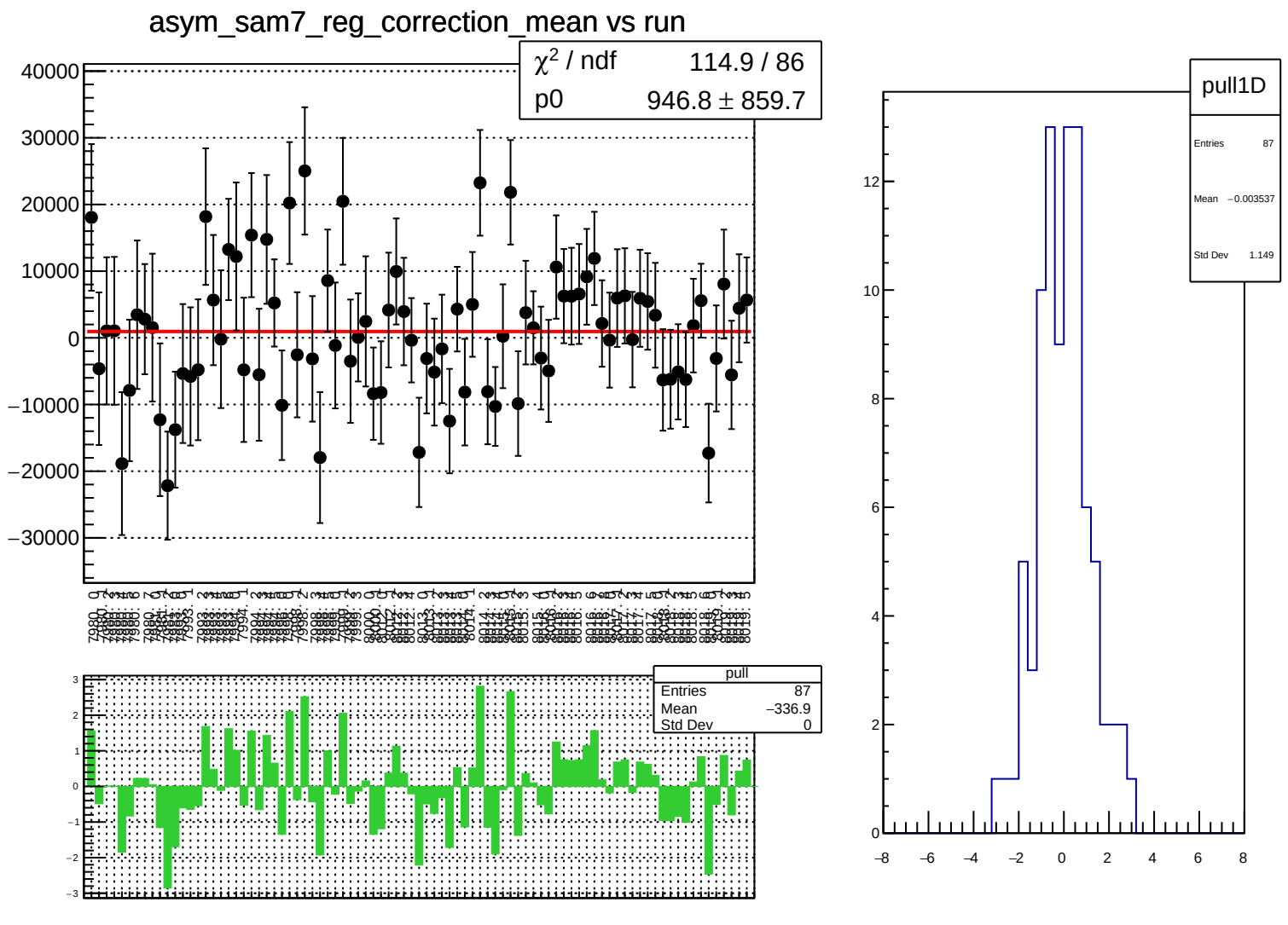

pull1D
Entries 87
Mean 0.05295
Std Dev 1.041

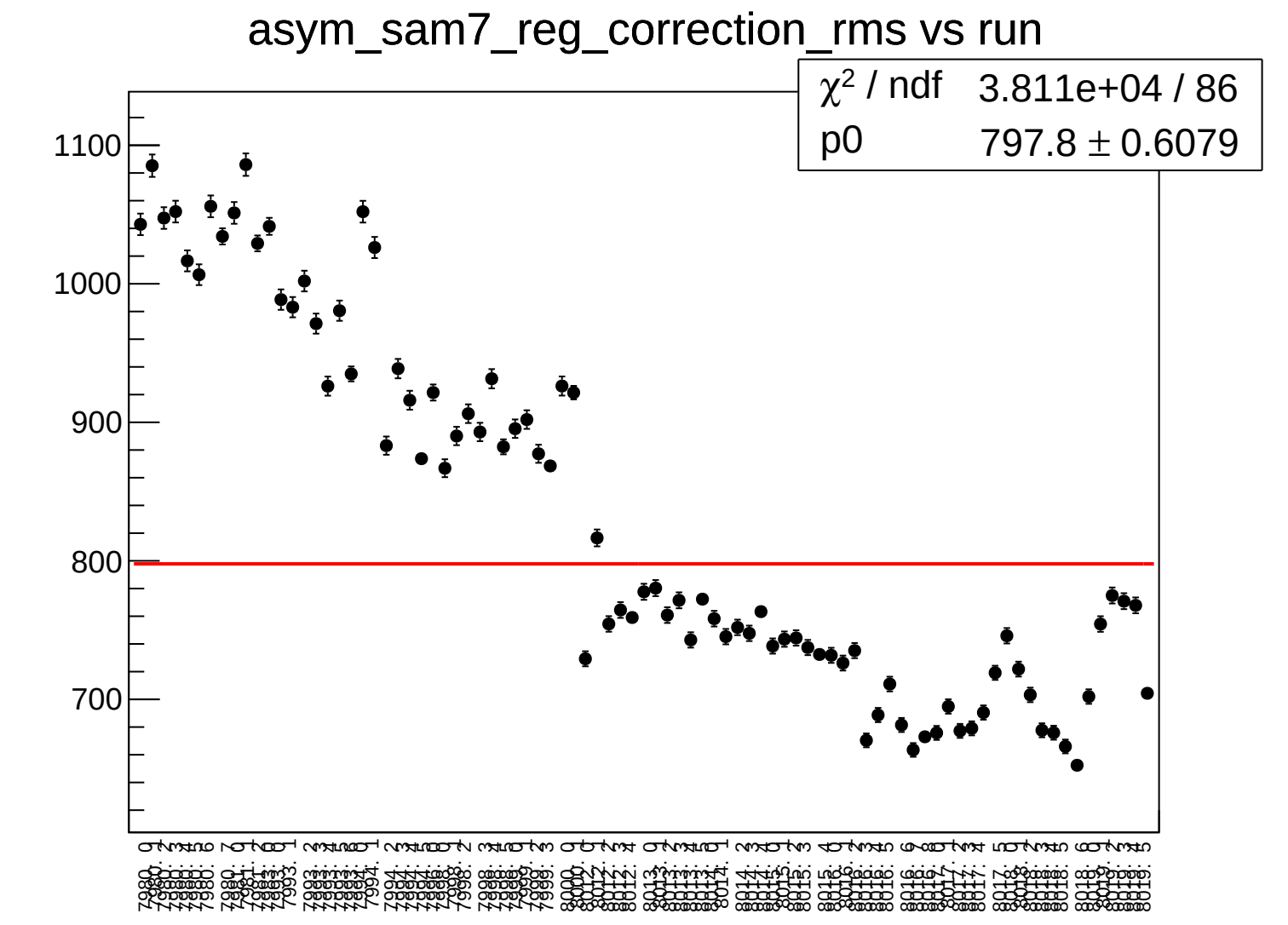

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.544e+05 / 86
p0 9.53e−11 ± 8.676e−14
1
0.8
0.6
0.4
0.2

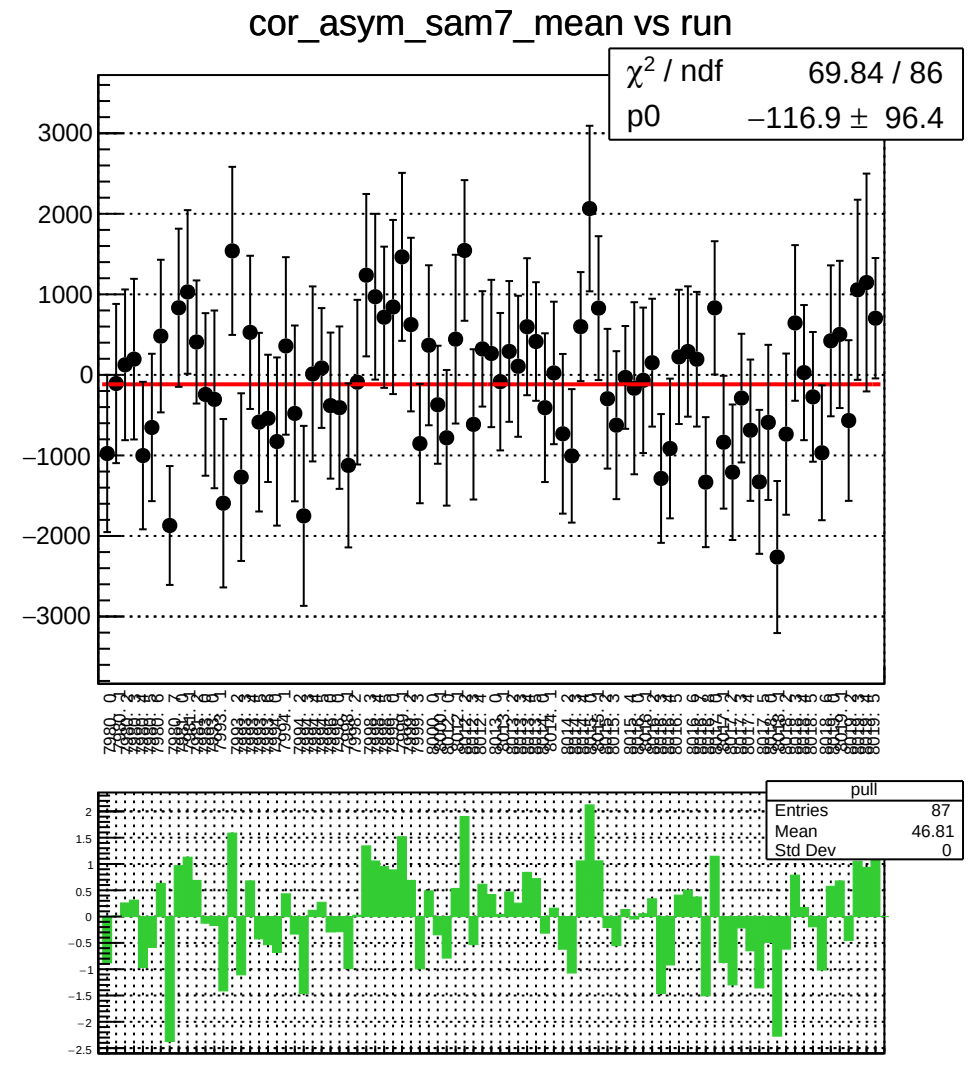

reg_asym_sam7_mean vs run
χ² / ndf 69.85 / 86
p0 −116.9 ± 96.4
pull
Entries 87
Mean 46.76
Std Dev 0

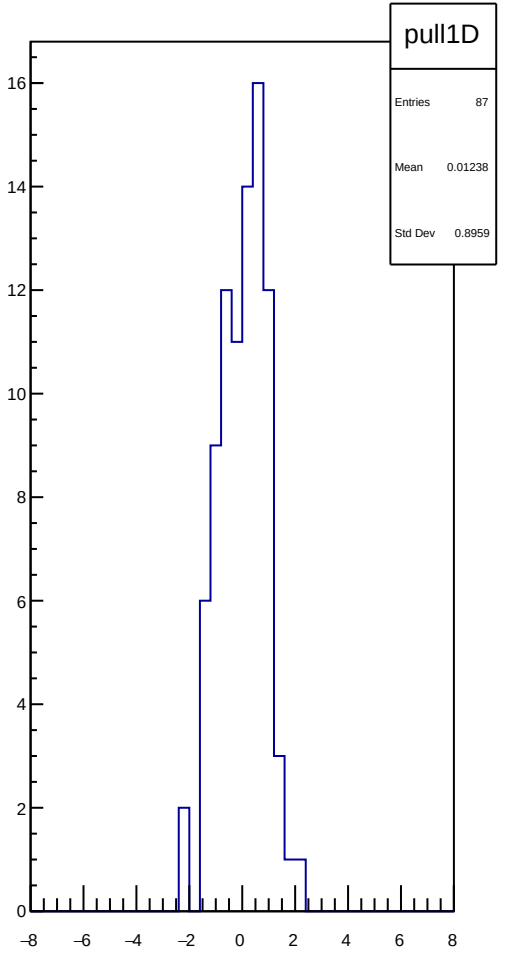

pull1D
Entries 87
Mean 0.01238
Std Dev 0.8959

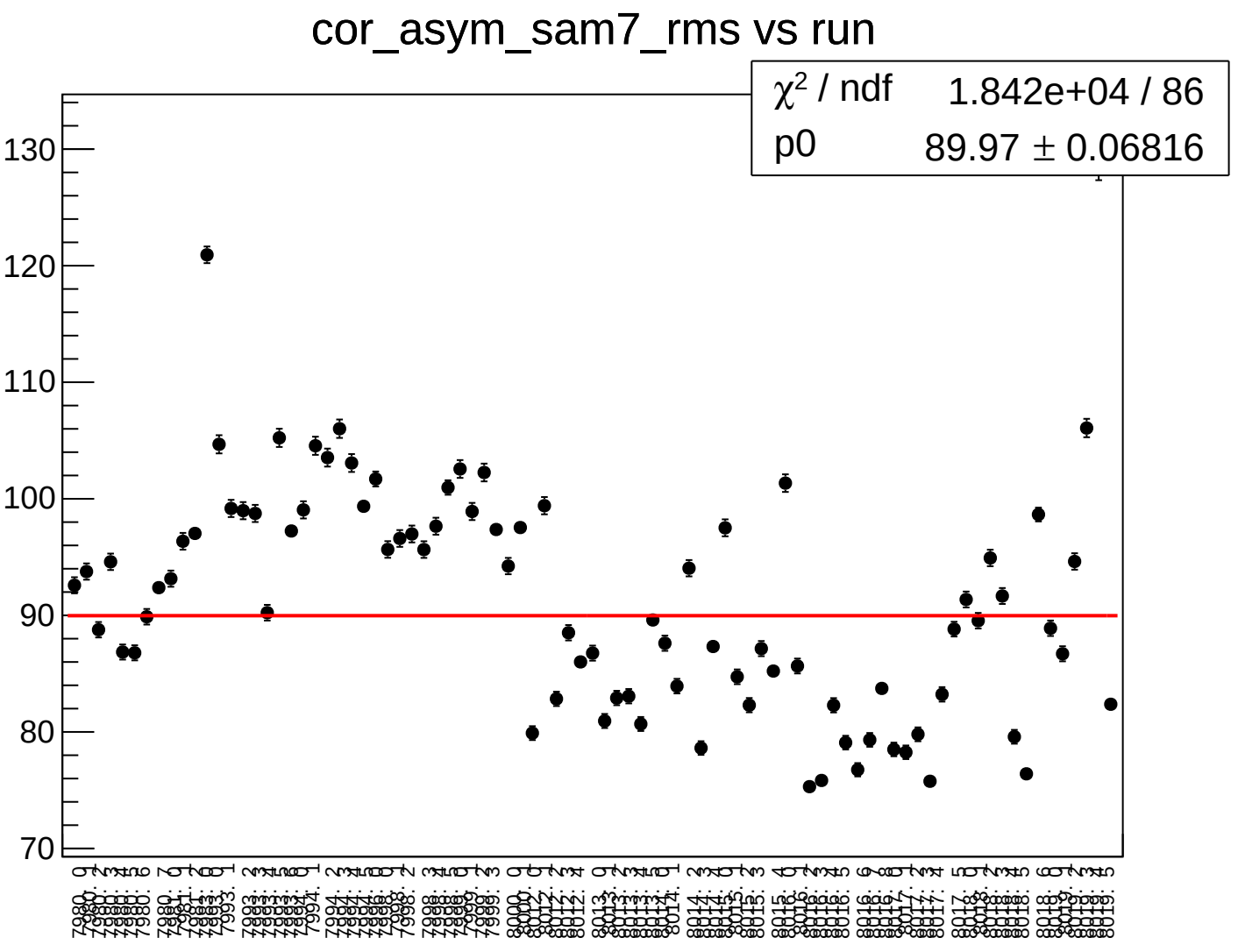

reg_asym_sam7_rms vs run
χ² / ndf 1.842e+04 / 86
p0 89.97 ± 0.06816
130
120
110
100
90
80
70

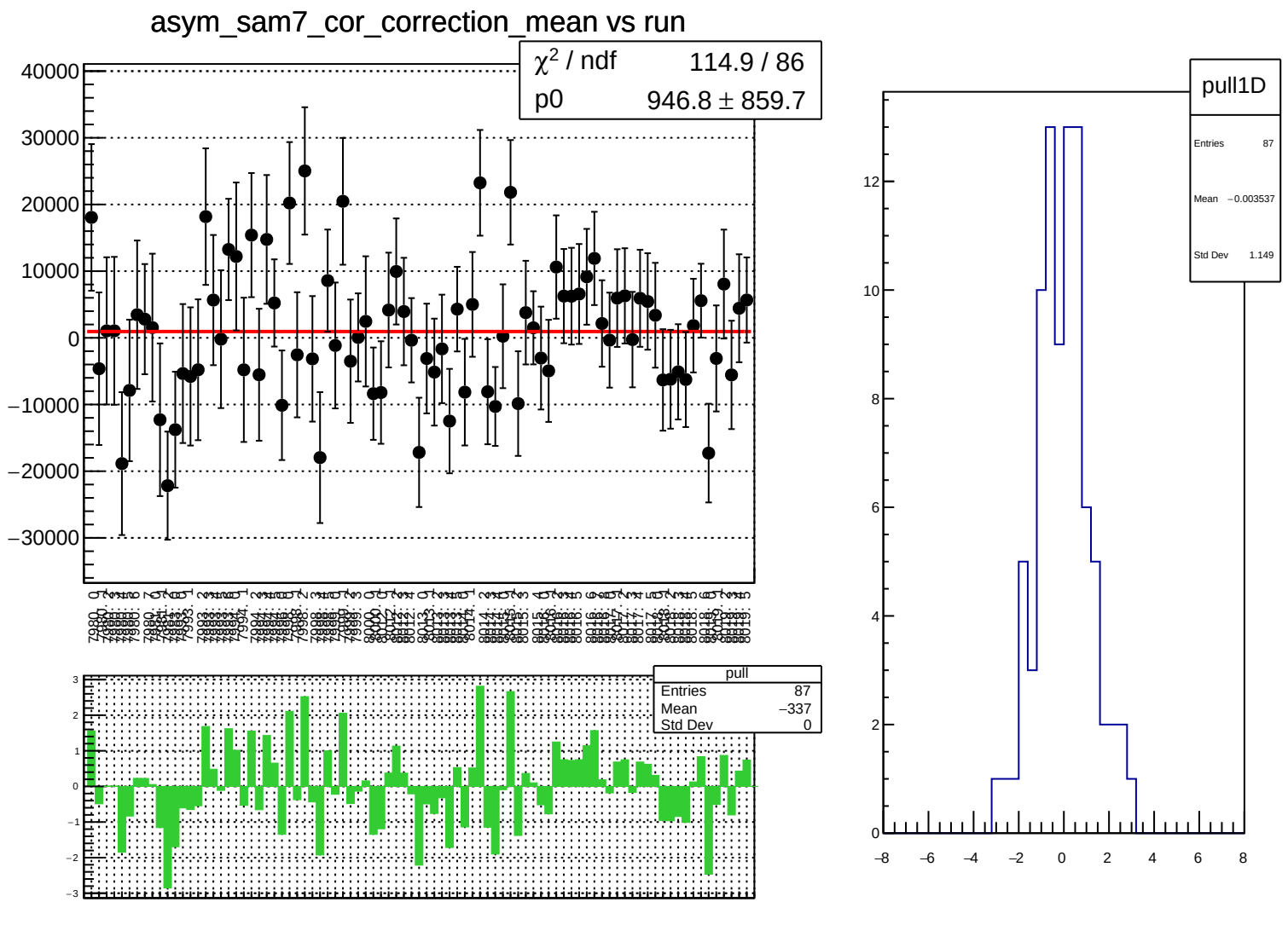

asym_sam7_reg_correction_mean vs run
χ² / ndf 114.9 / 86
p0 946.8 ± 859.7
pull
Entries 87
Mean −336.9
Std Dev 0
pull1D
Entries 87
Mean −0.003537
Std Dev 1.149

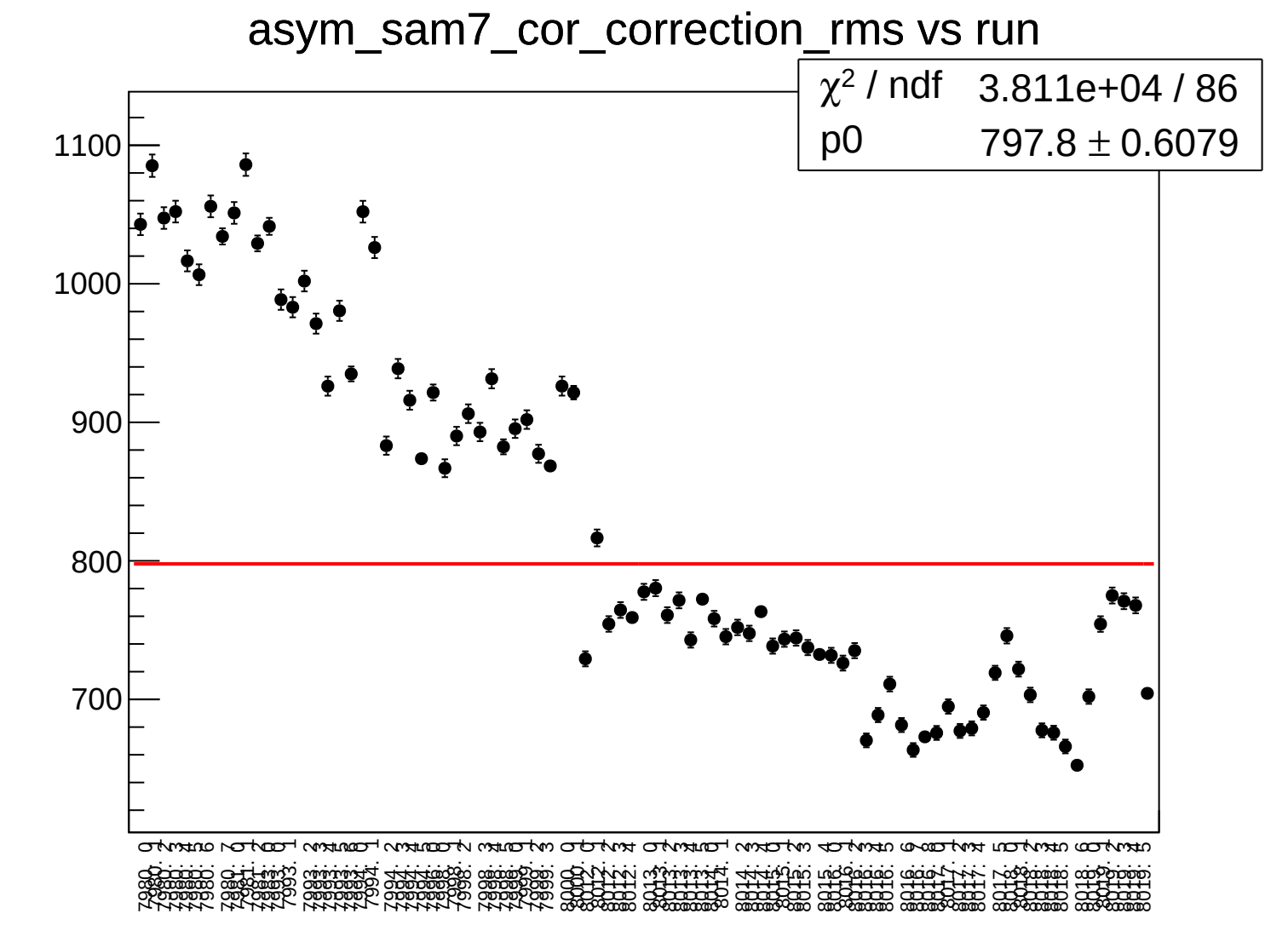

asym_sam7_reg_correction_rms vs run
χ² / ndf 3.811e+04 / 86
p0 797.8 ± 0.6079
1100
1000
900
800
700

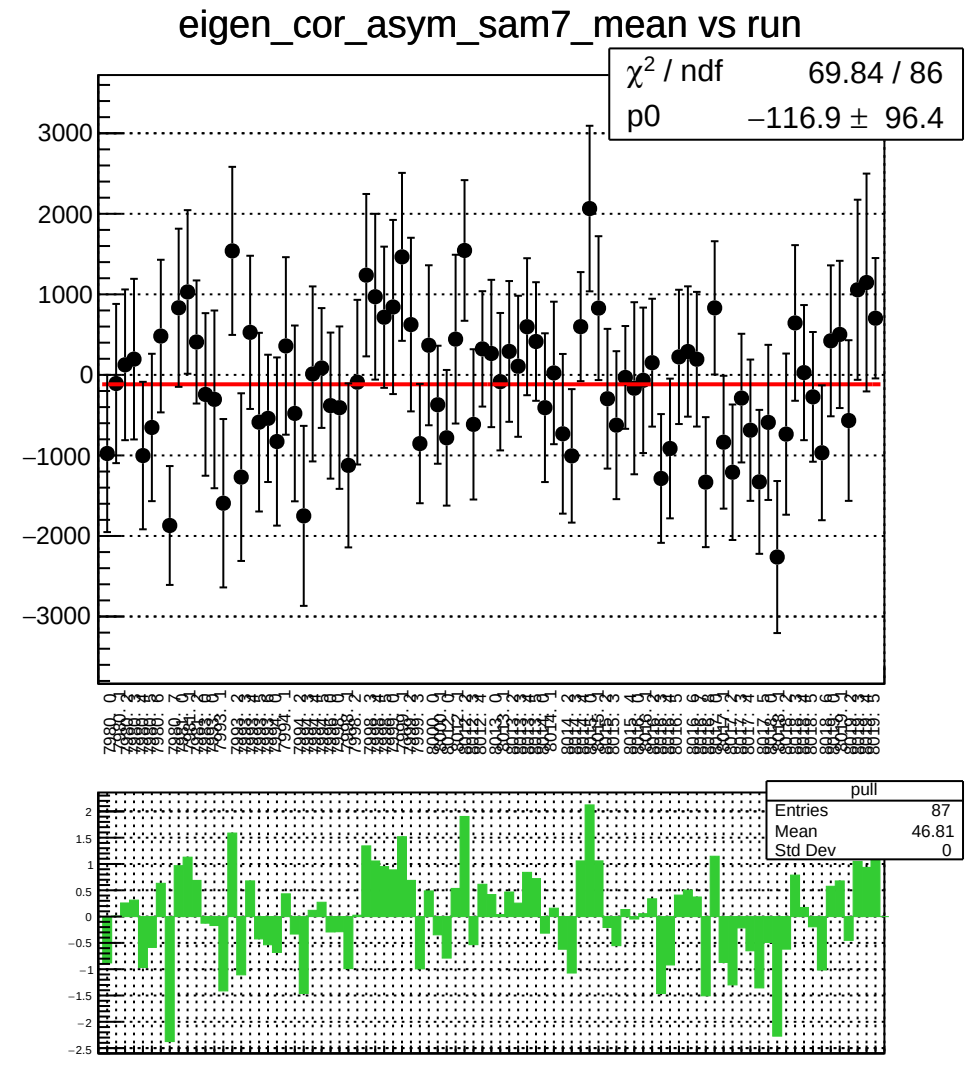

cor_asym_sam7_mean vs run
χ² / ndf 69.84 / 86
p0 −116.9 ± 96.4
pull
Entries 87
Mean 46.81
Std Dev 0

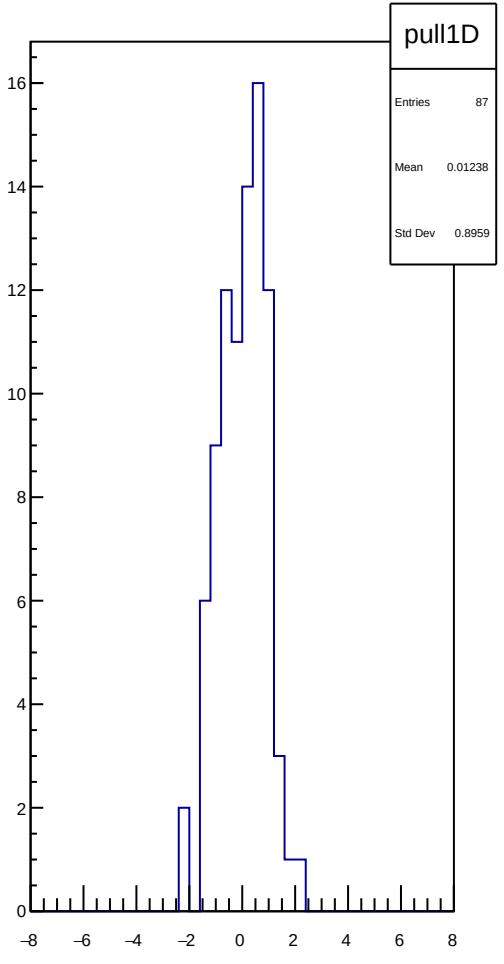

pull1D
Entries 87
Mean 0.01238
Std Dev 0.8959

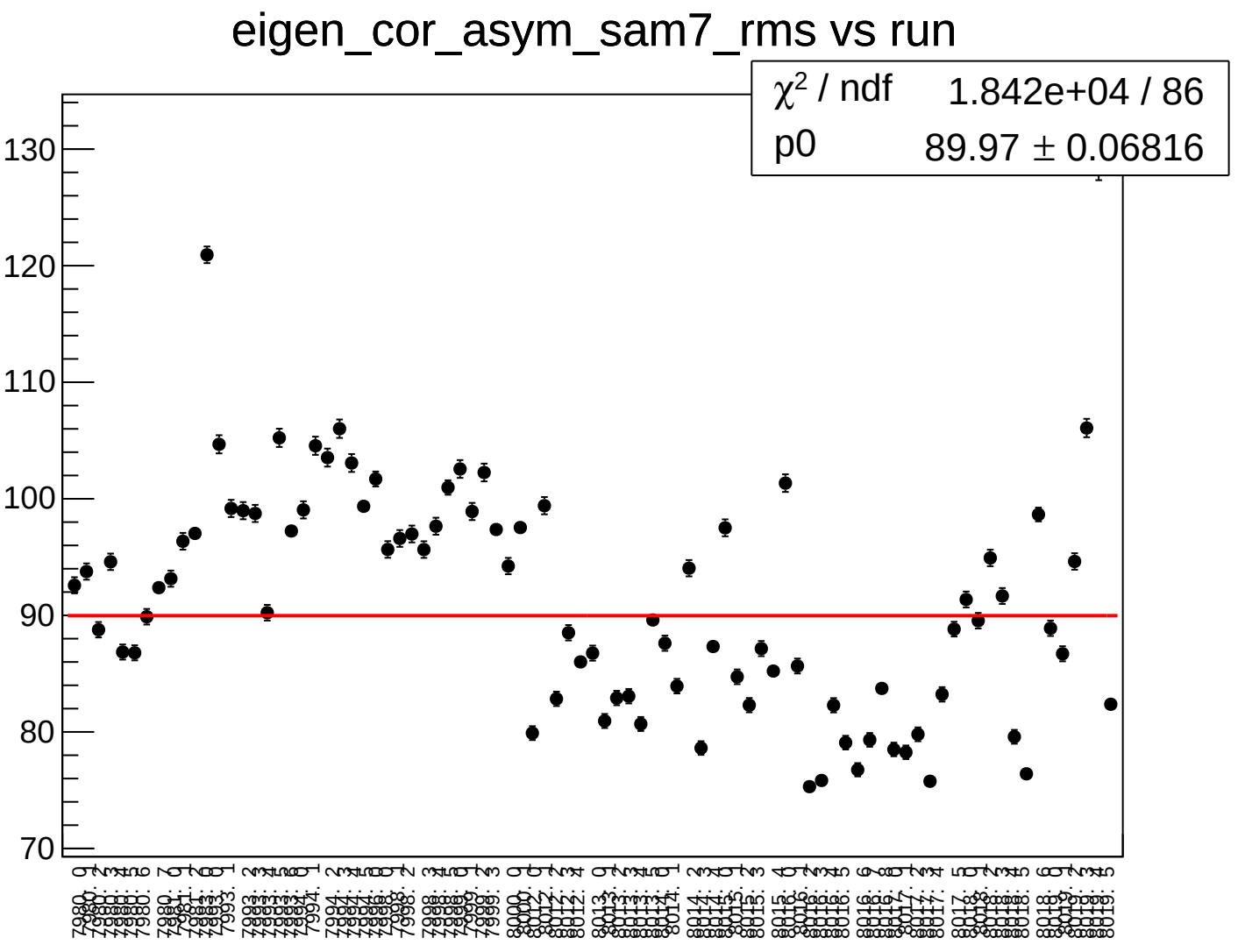

cor_asym_sam7_rms vs run
χ² / ndf 1.842e+04 / 86
p0 89.97 ± 0.06816
130
120
110
100
90
80
70

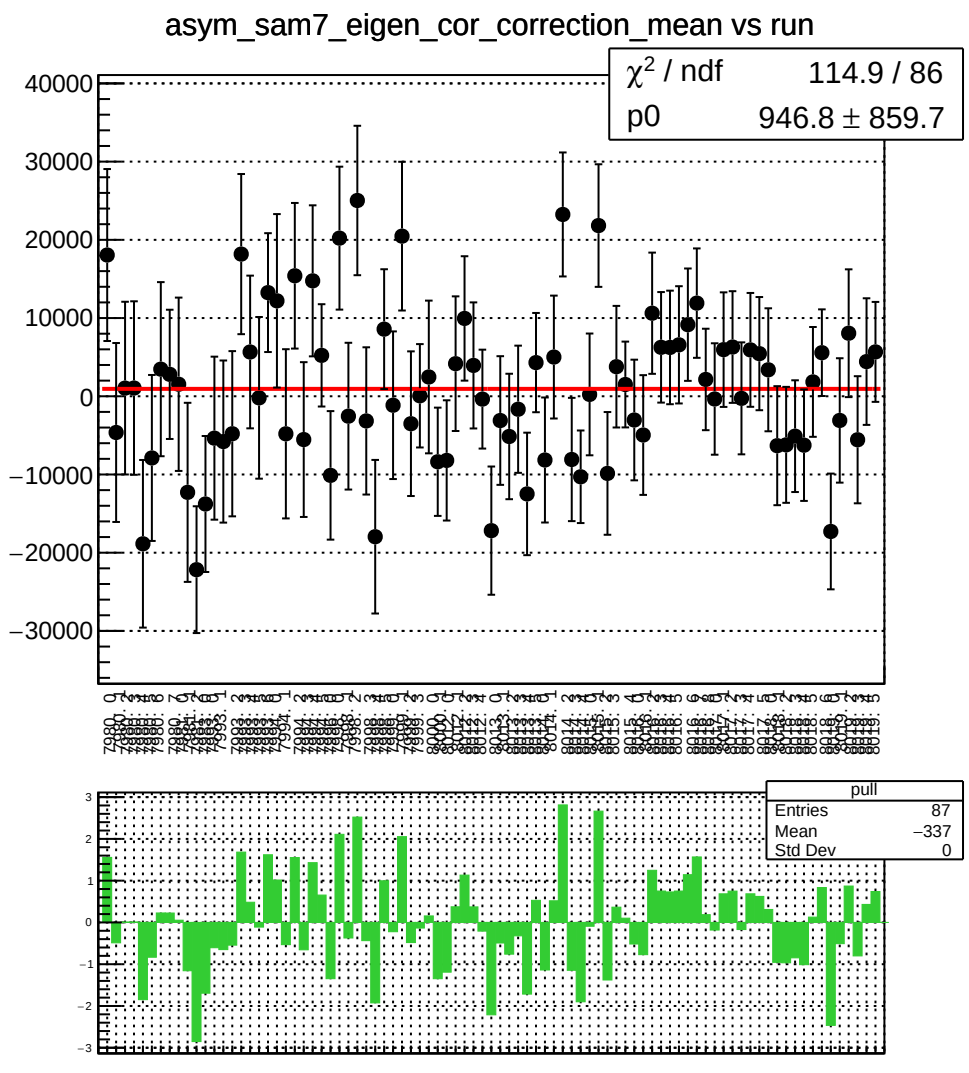

asym_sam7_cor_correction_mean vs run
χ² / ndf 114.9 / 86
p0 946.8 ± 859.7
pull
Entries 87
Mean −337
Std Dev 0
pull1D
Entries 87
Mean −0.003537
Std Dev 1.149

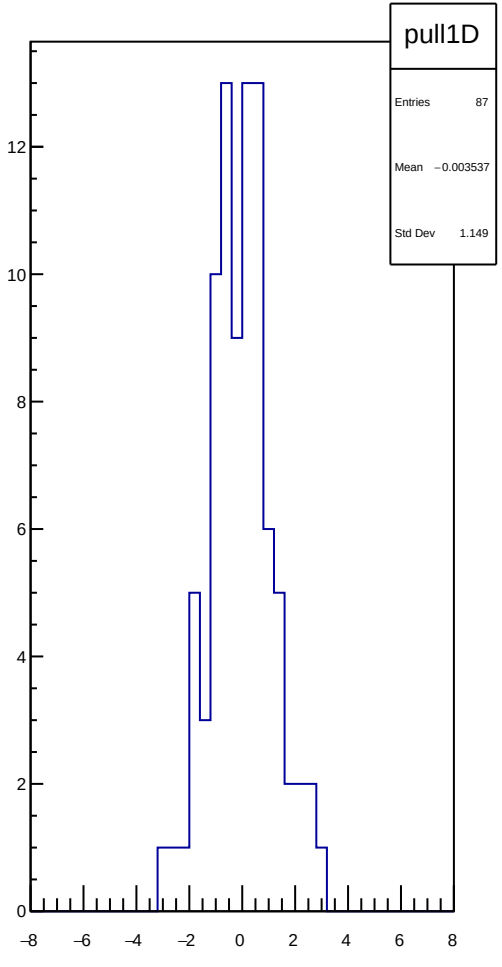

asym_sam7_cor_correction_rms vs run
χ² / ndf 3.811e+04 / 86
p0 797.8 ± 0.6079
1100
1000
900
800
700

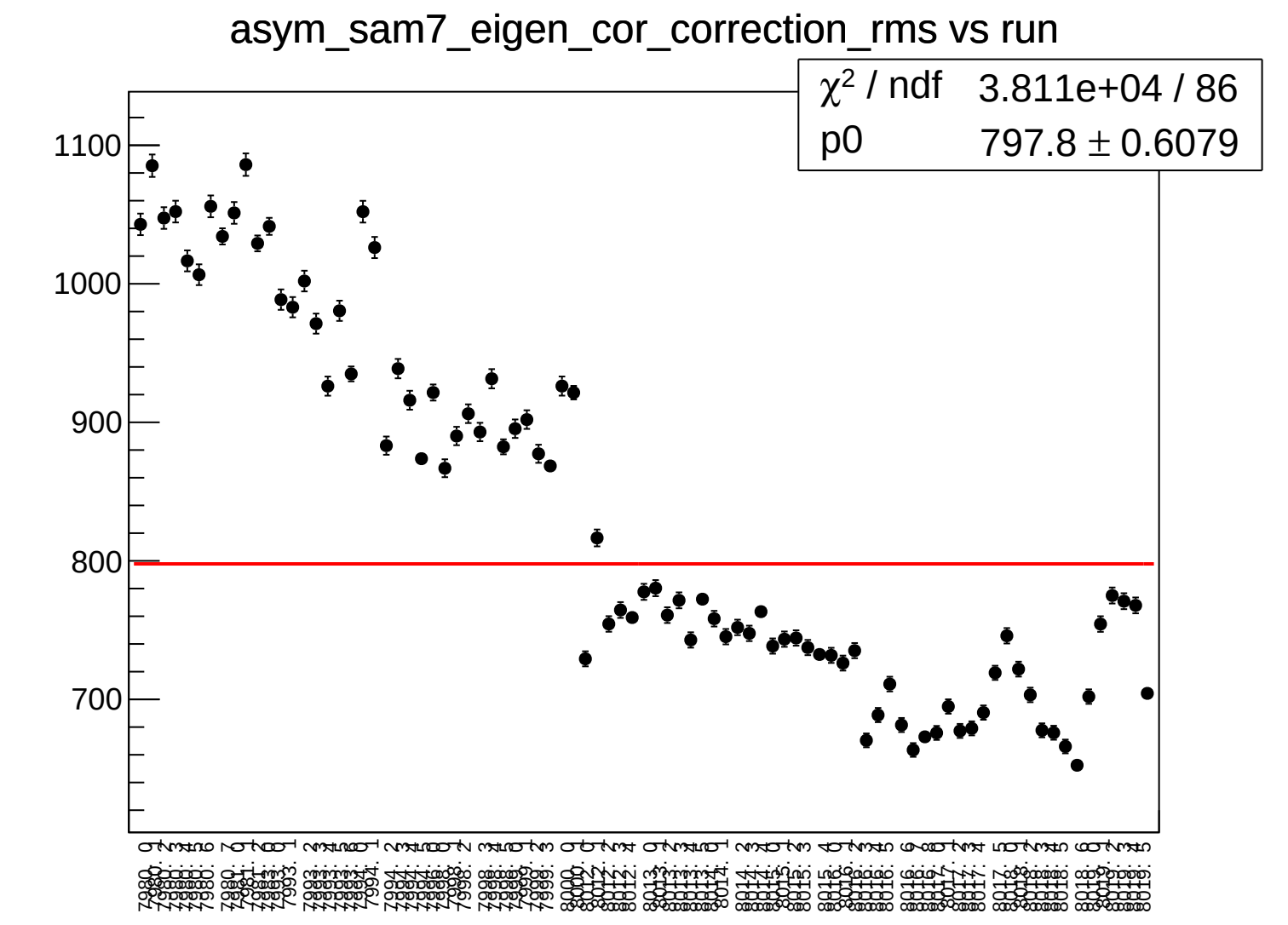

eigen_cor_asym_sam7_mean vs run
χ² / ndf 69.84 / 86
p0 −116.9 ± 96.4
pull
Entries 87
Mean 46.81
Std Dev 0

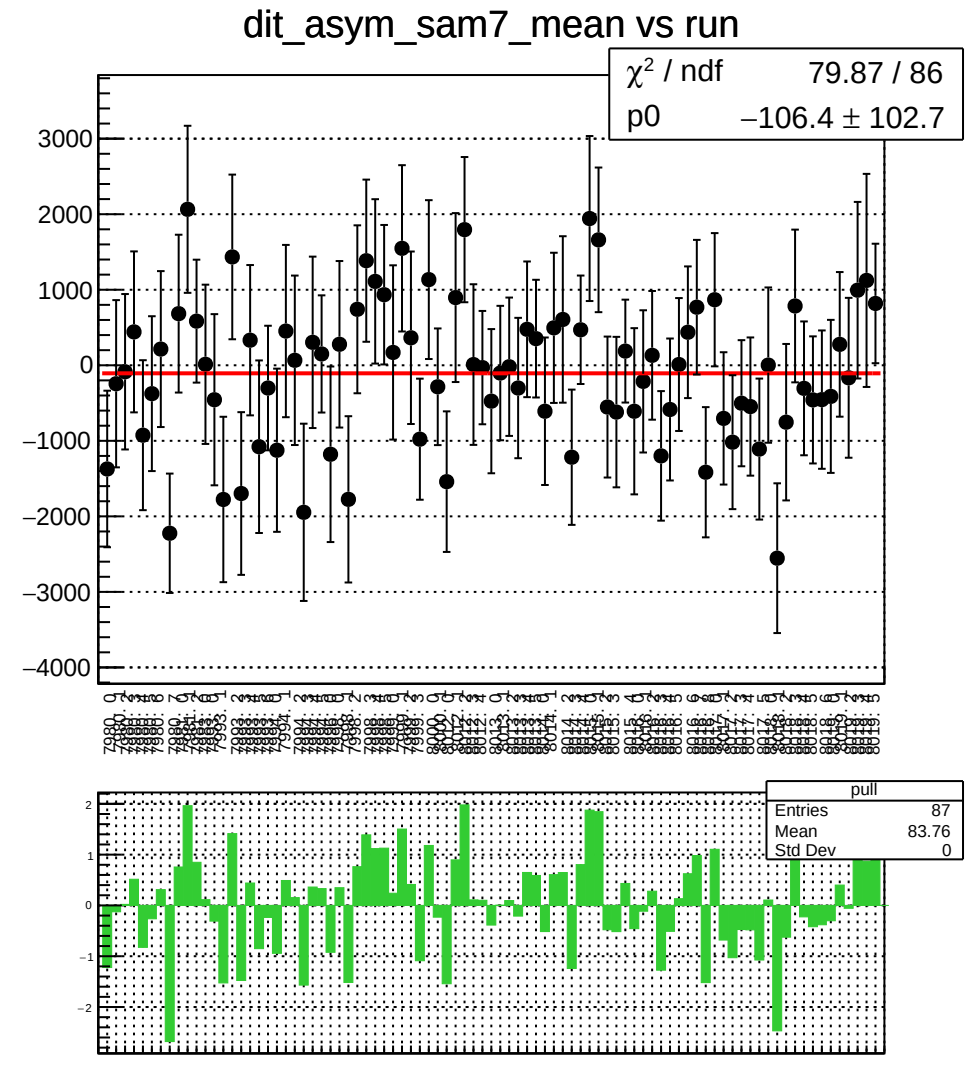

pull1D
Entries 87
Mean 0.01238
Std Dev 0.8959

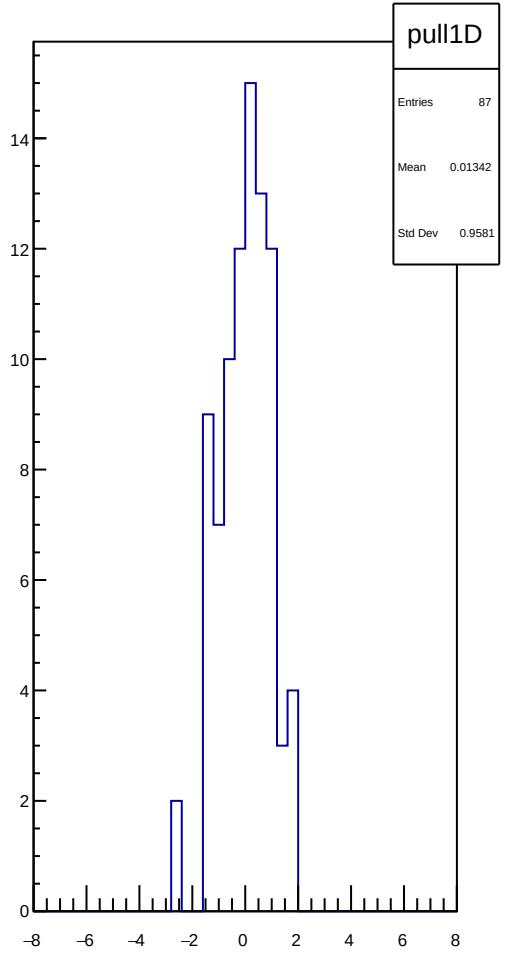

eigen_cor_asym_sam7_rms vs run
χ² / ndf 1.842e+04 / 86
p0 89.97 ± 0.06816
130
120
110
100
90
80
70

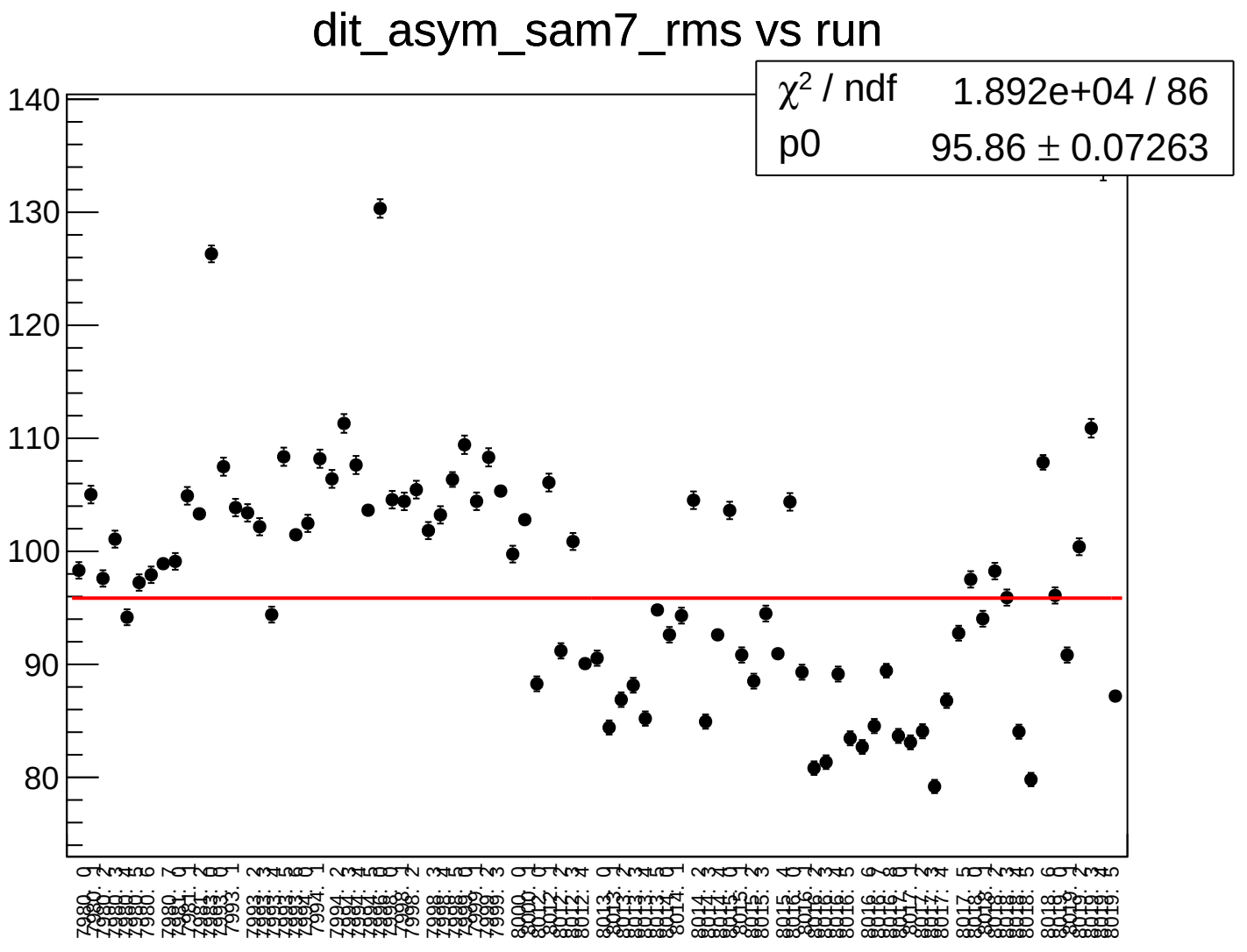

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 114.9 / 86
p0 946.8 ± 859.7
pull
Entries 87
Mean −337
Std Dev 0

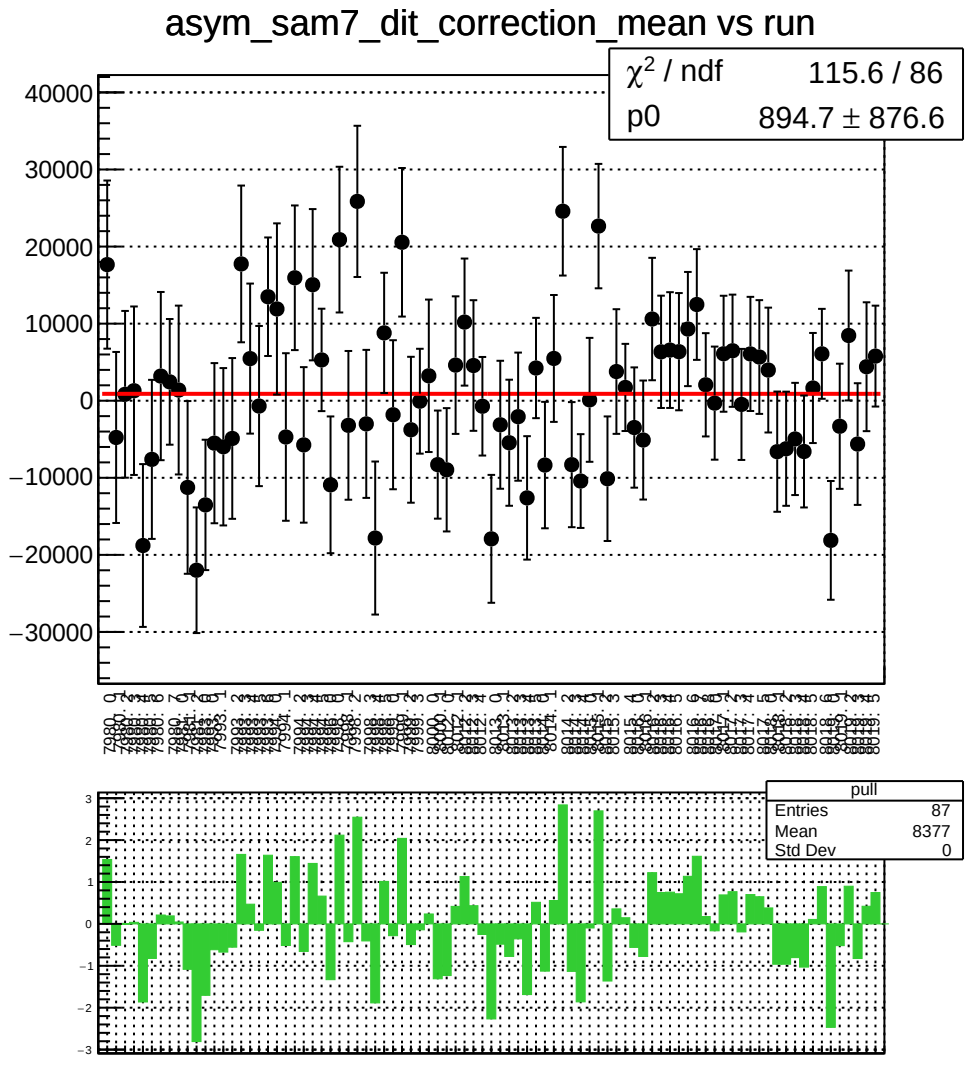

pull1D
Entries 87
Mean −0.003537
Std Dev 1.149

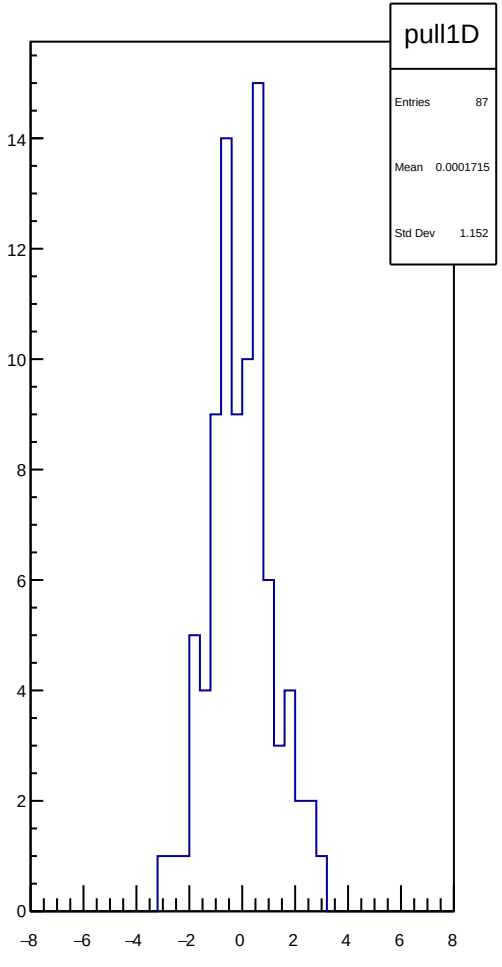

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 3.811e+04 / 86
p0 797.8 ± 0.6079
1100
1000
900
800
700

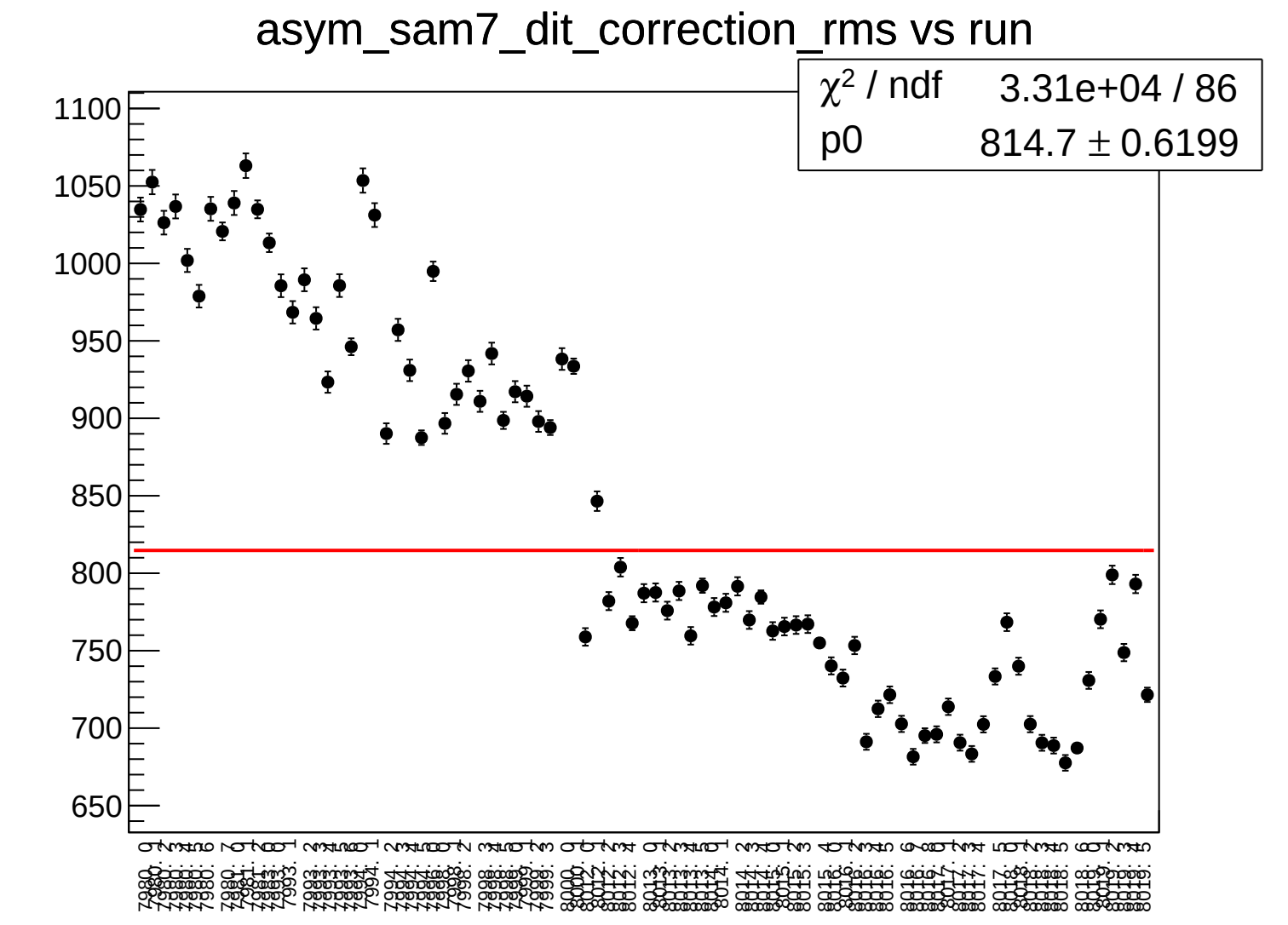

dit_asym_sam7_mean vs run
χ² / ndf 79.87 / 86
p0 −106.4 ± 102.7
pull
Entries 87
Mean 83.76
Std Dev 0

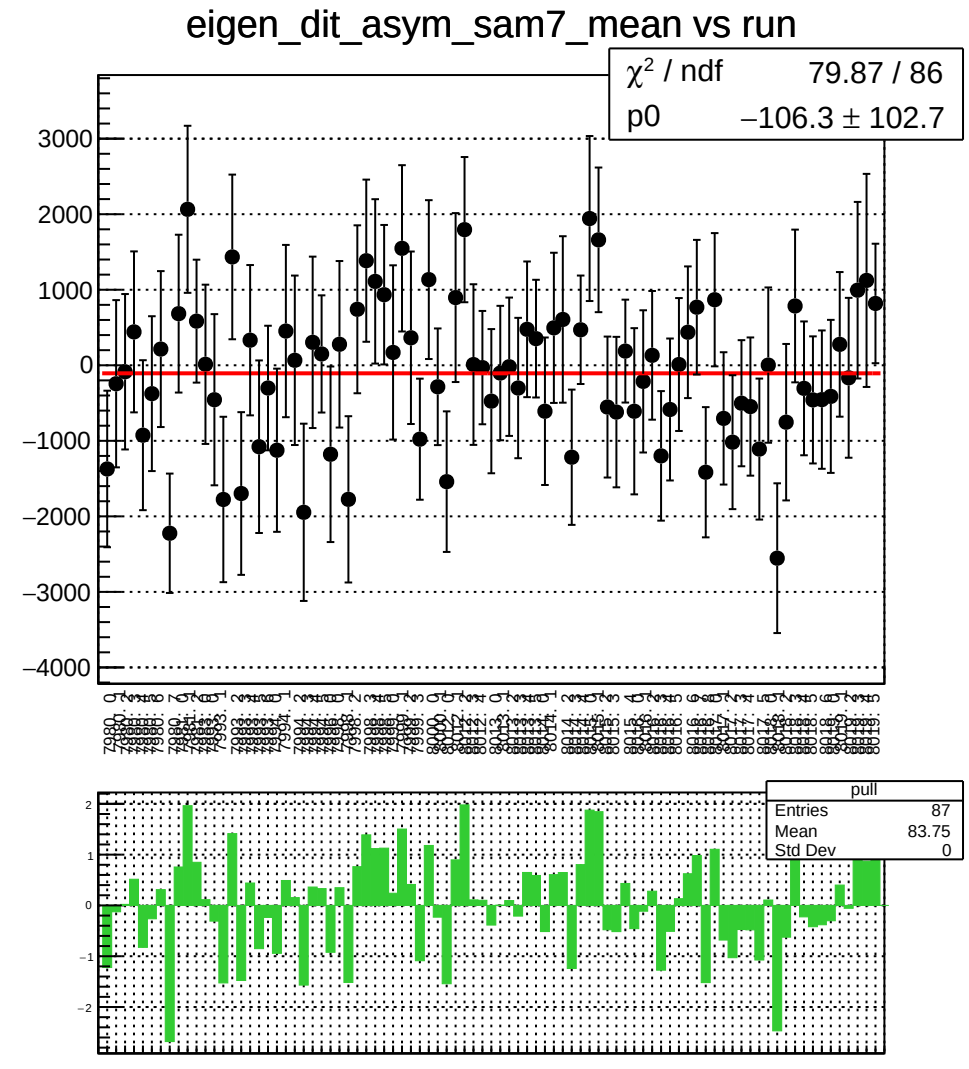

pull1D
Entries 87
Mean 0.01342
Std Dev 0.9581

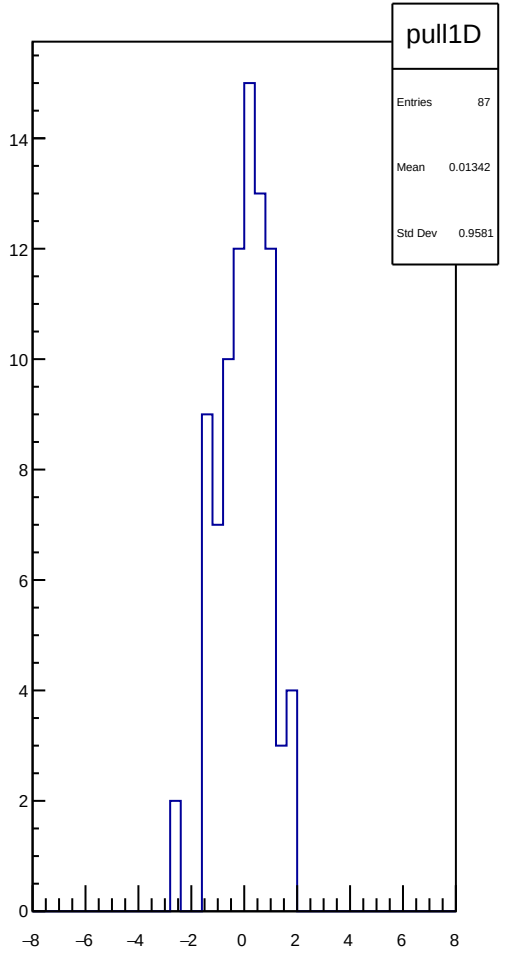

dit_asym_sam7_rms vs run
χ² / ndf 1.892e+04 / 86
p0 95.86 ± 0.07263
140
130
120
110
100
90
80

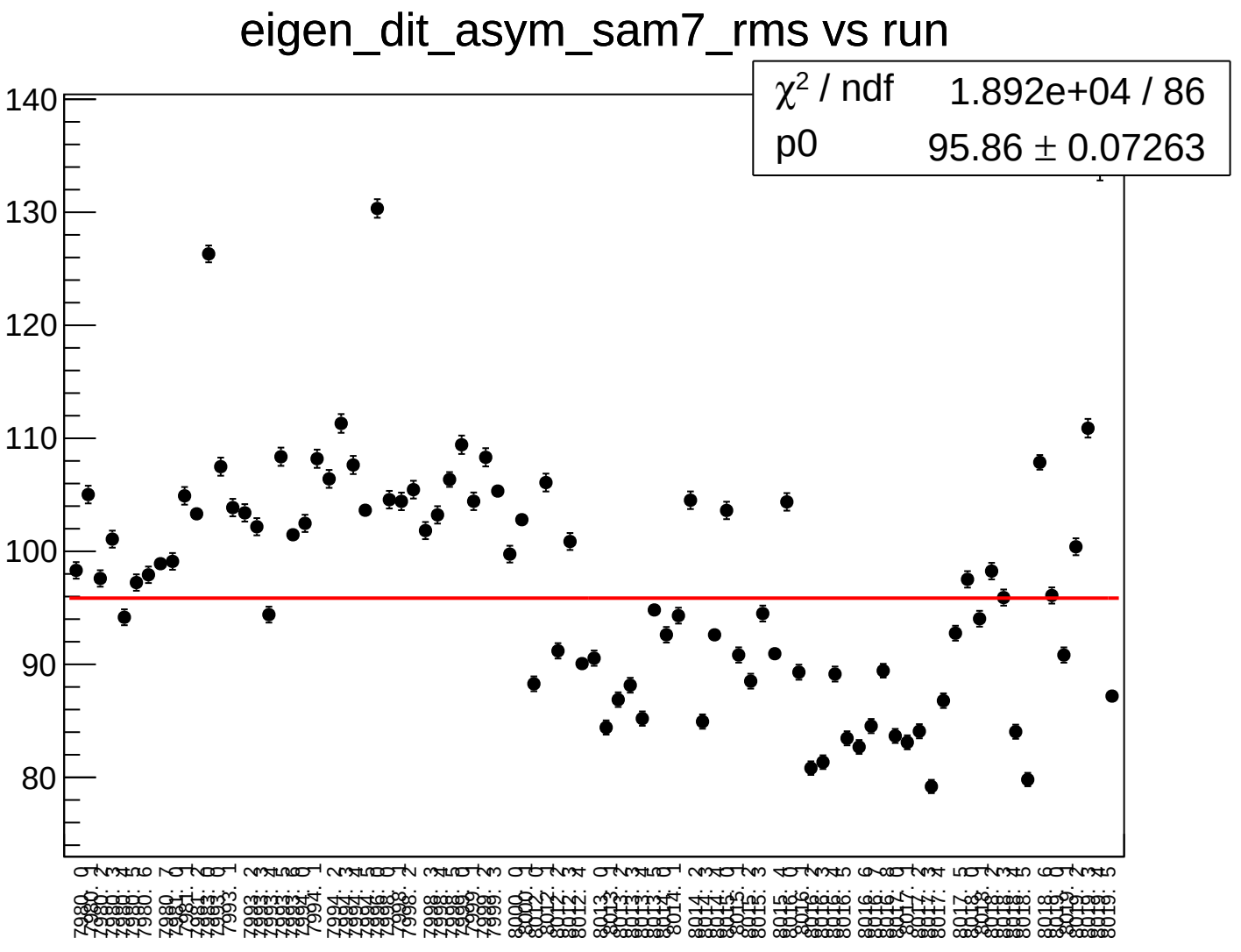

asym_sam7_dit_correction_mean vs run
χ² / ndf 115.6 / 86
p0 894.7 ± 876.6
pull
Entries 87
Mean 8377
Std Dev 0

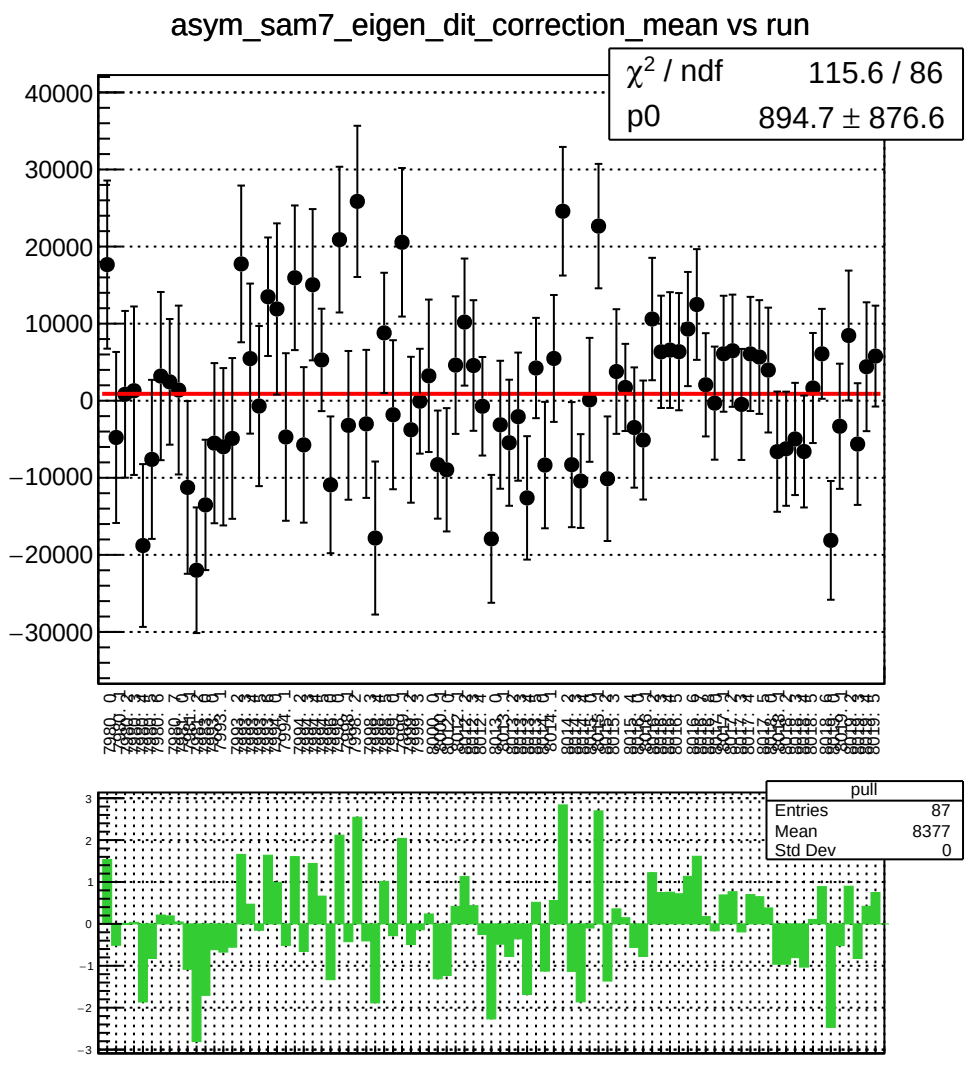

pull1D
Entries 87
Mean 0.0001715
Std Dev 1.152

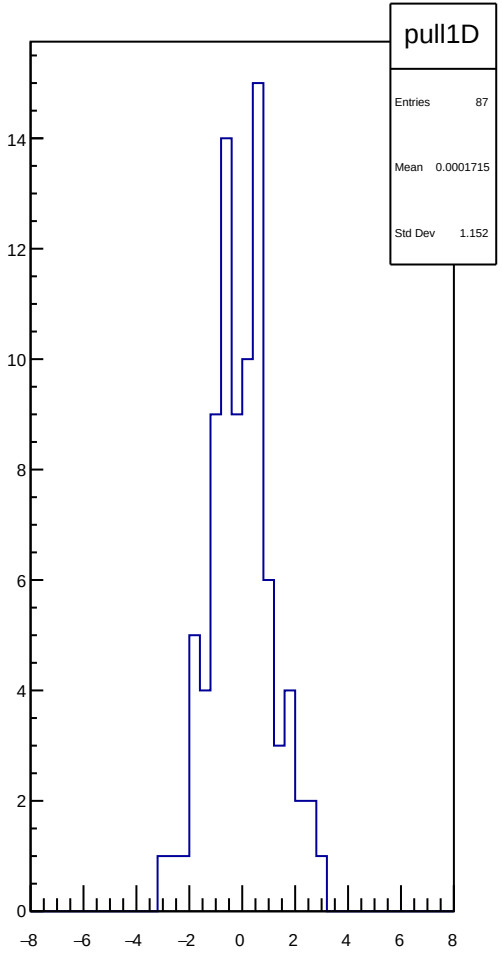

asym_sam7_dit_correction_rms vs run
χ² / ndf 3.31e+04 / 86
p0 814.7 ± 0.6199
1100
1050
1000
950
900
850
800
750
700
650

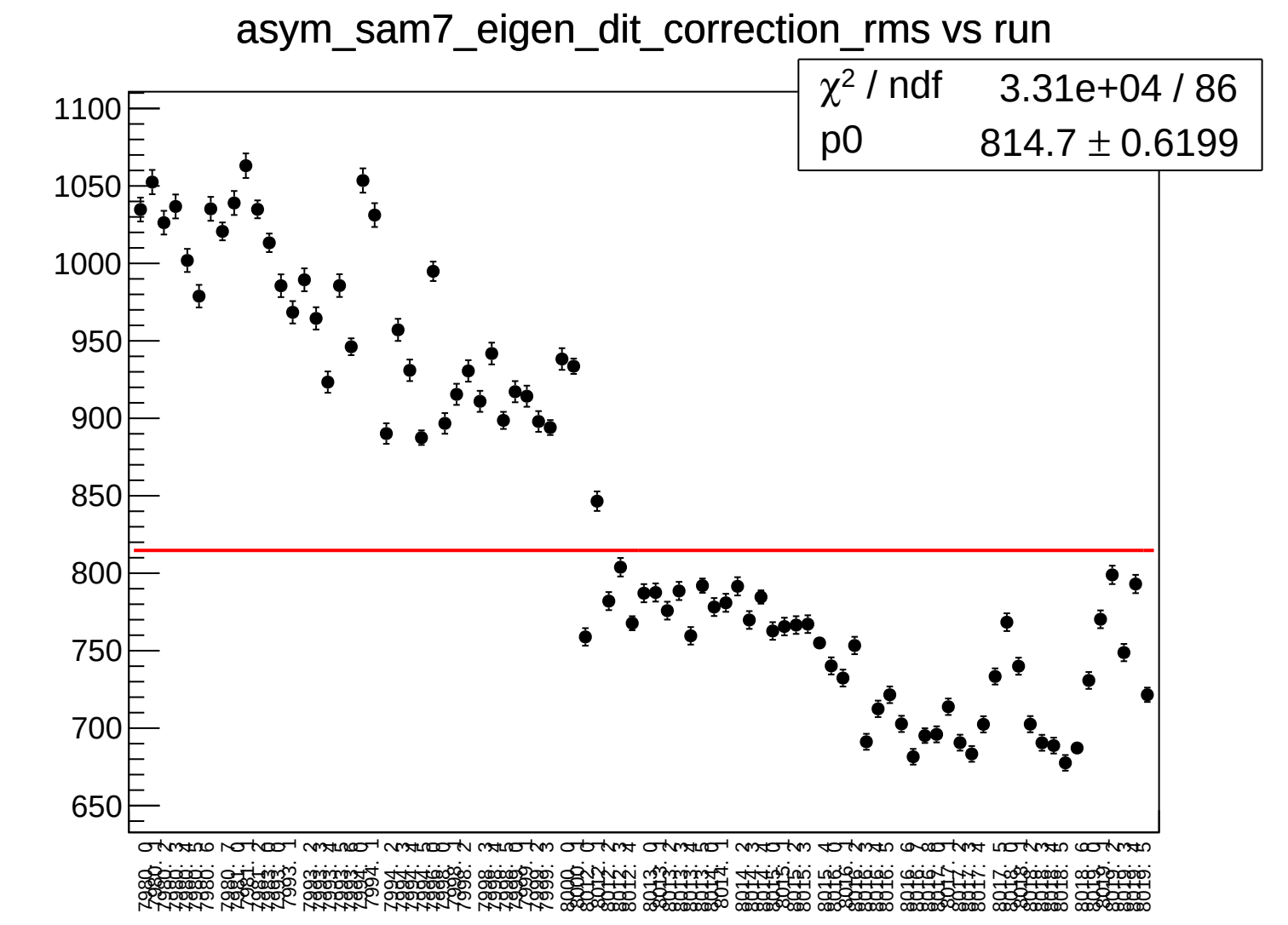

eigen_dit_asym_sam7_mean vs run
χ² / ndf 79.87 / 86
p0 −106.3 ± 102.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 87
Mean 83.75
Std Dev 0
2
1
0
−1
−2

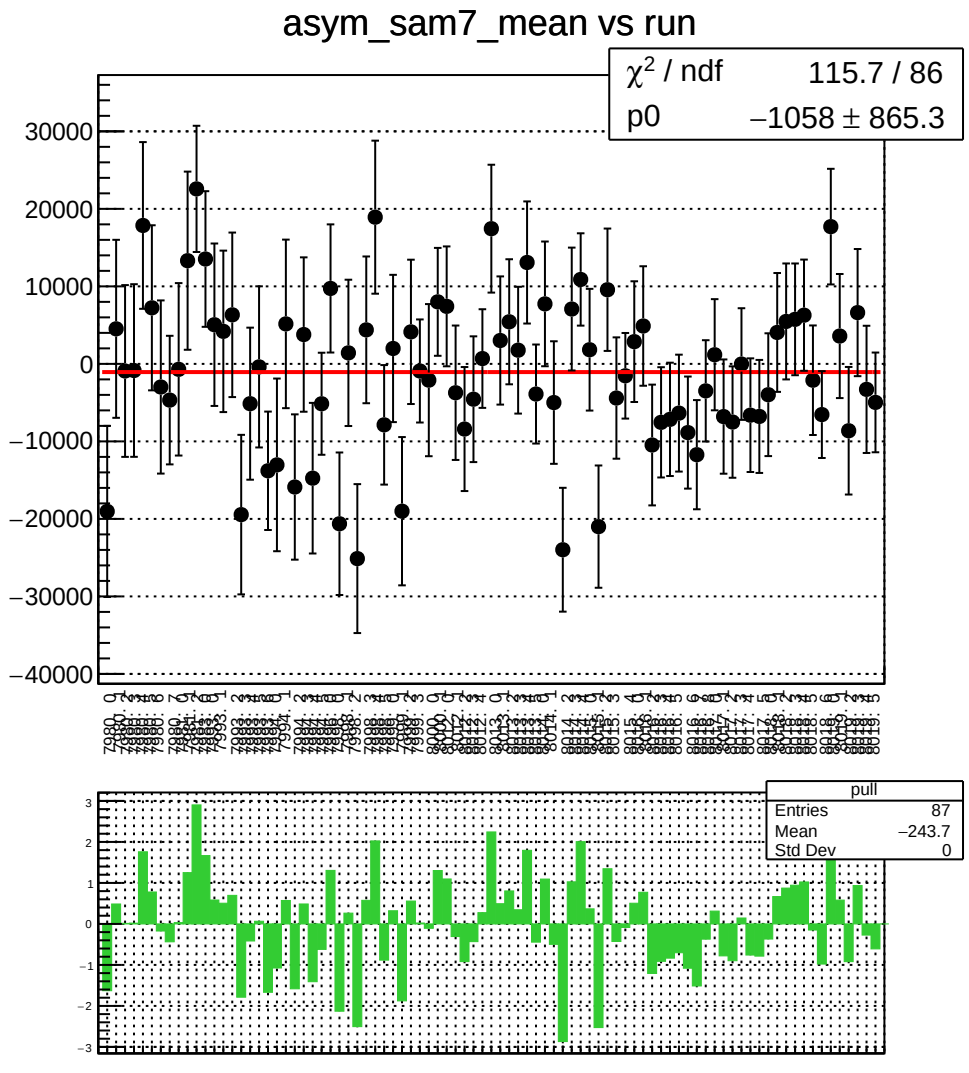

pull1D
Entries 87
Mean 0.01342
Std Dev 0.9581
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

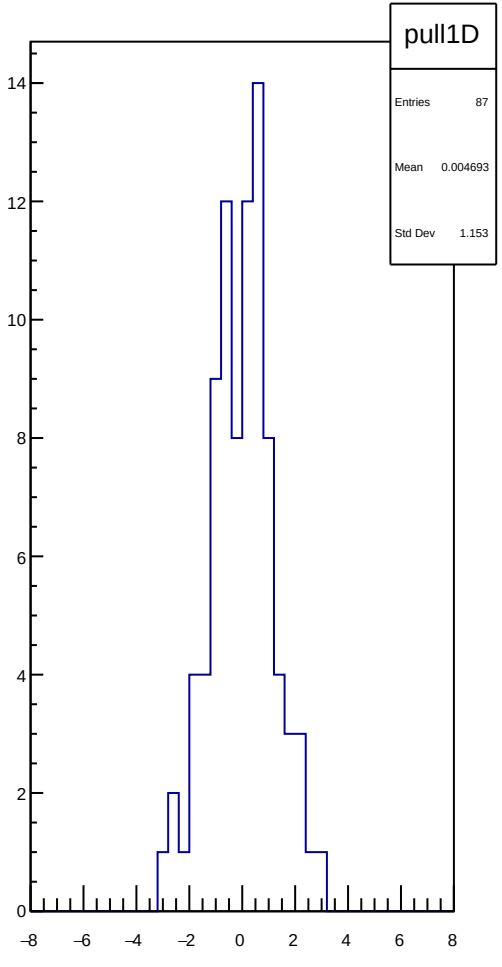

eigen_dit_asym_sam7_rms vs run
χ² / ndf 1.892e+04 / 86
p0 95.86 ± 0.07263
140
130
120
110
100
90
80

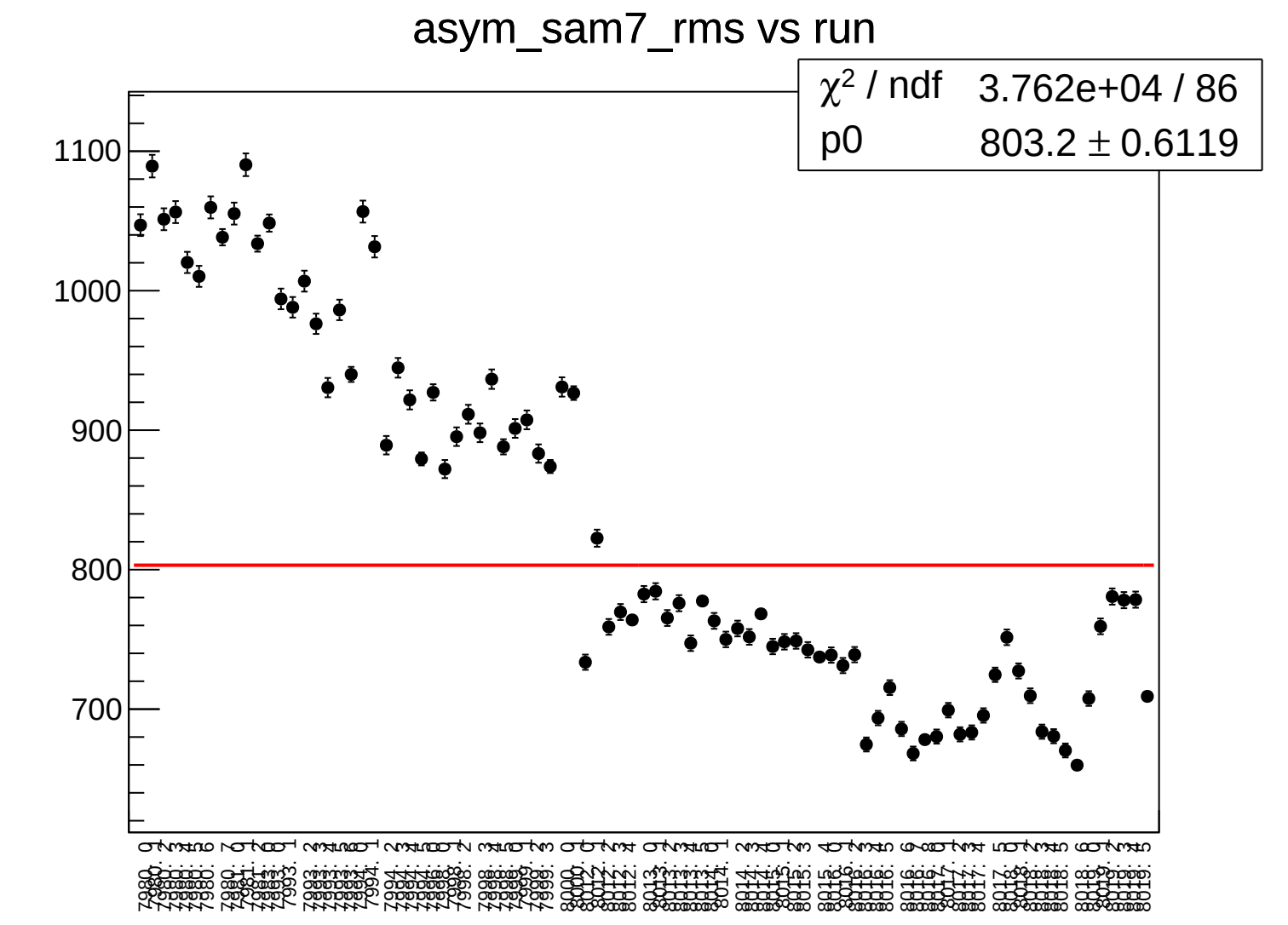

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 115.6 / 86
p0 894.7 ± 876.6
pull
Entries 87
Mean 8377
Std Dev 0

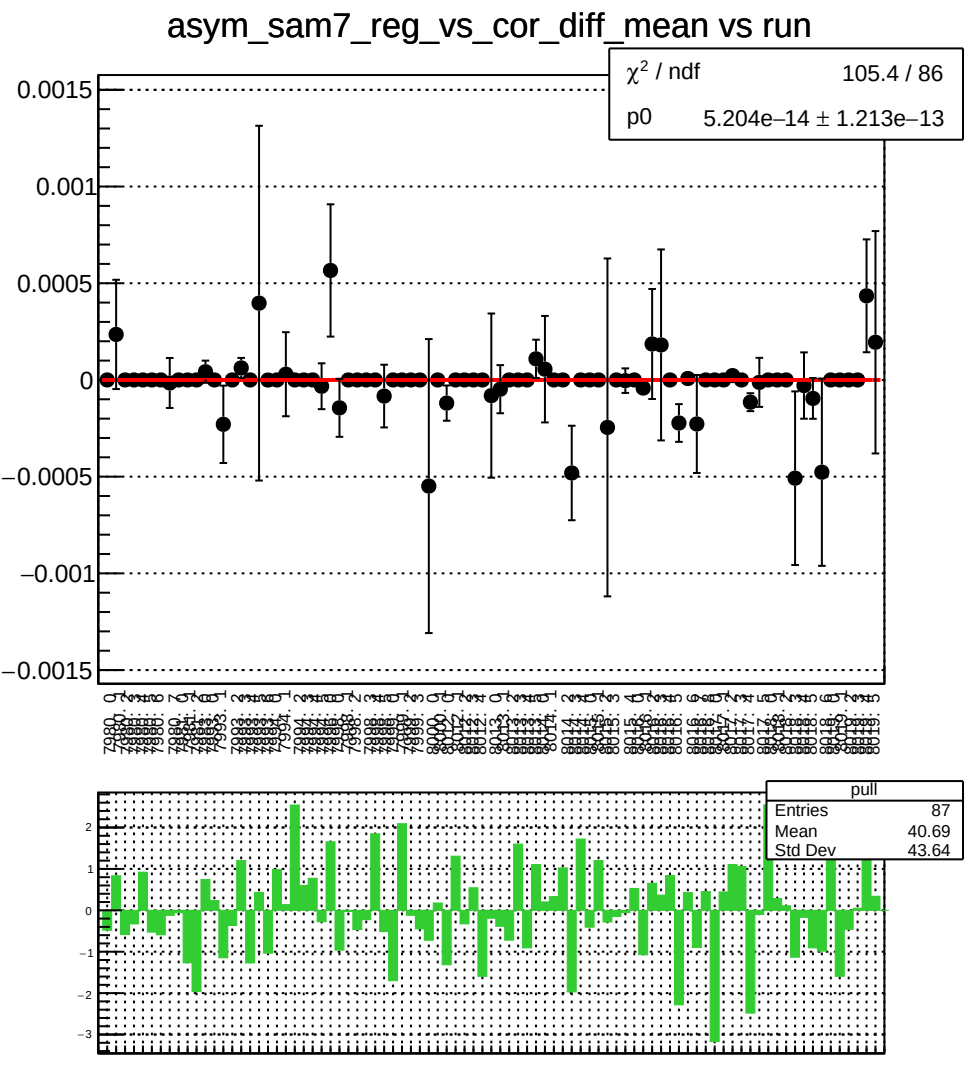

pull1D
Entries 87
Mean 0.0001715
Std Dev 1.152

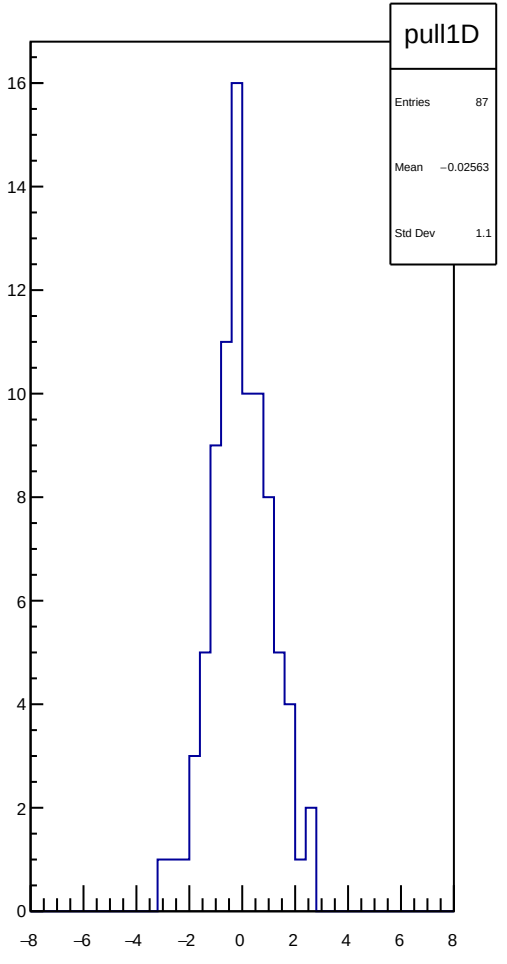

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 3.31e+04 / 86
p0 814.7 ± 0.6199
1100
1050
1000
950
900
850
800
750
700
650

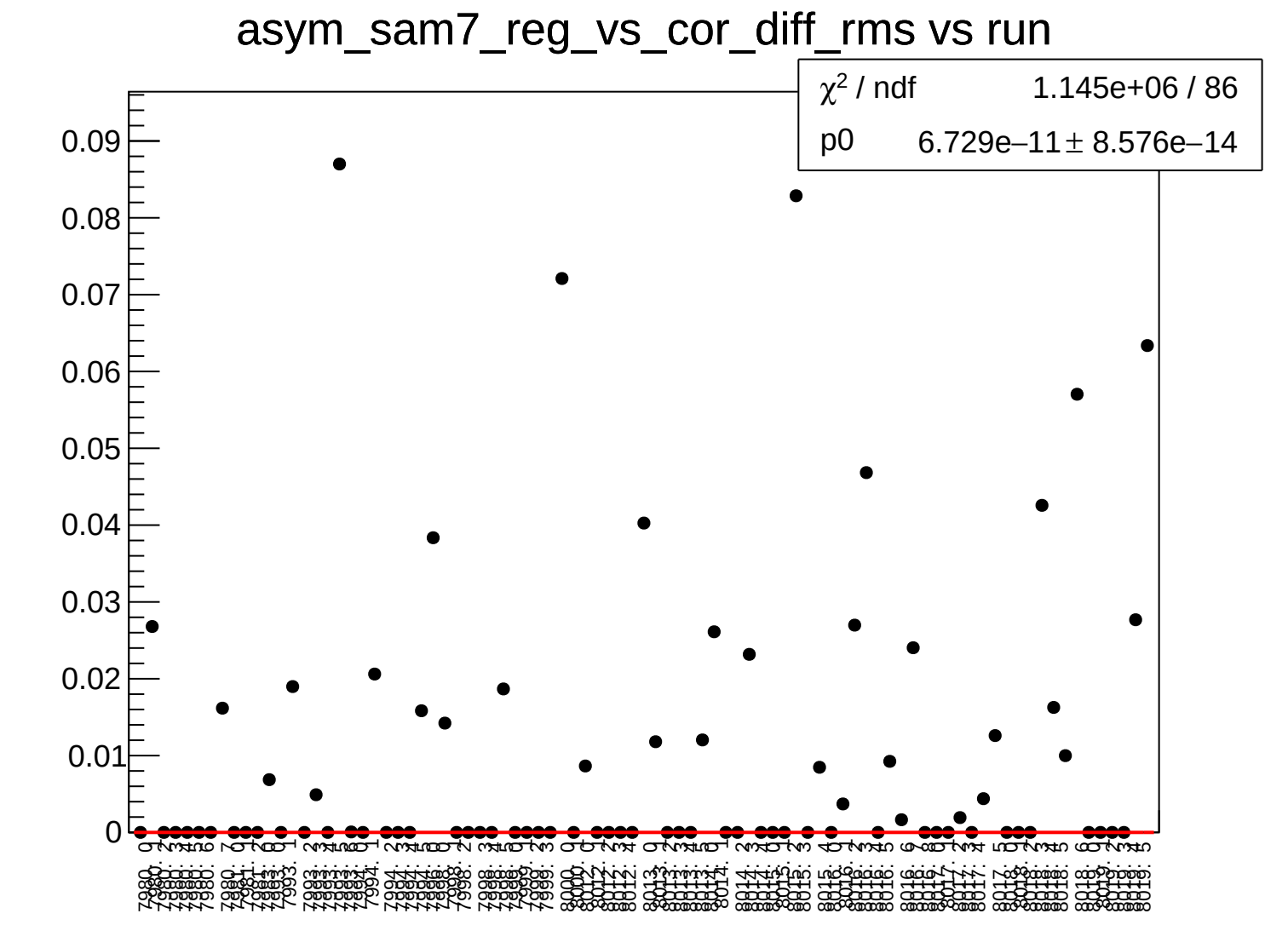

asym_sam7_mean vs run
χ² / ndf 115.7 / 86
p0 −1058 ± 865.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −243.7
Std Dev 0
3
2
1
0
−1
−2
−3

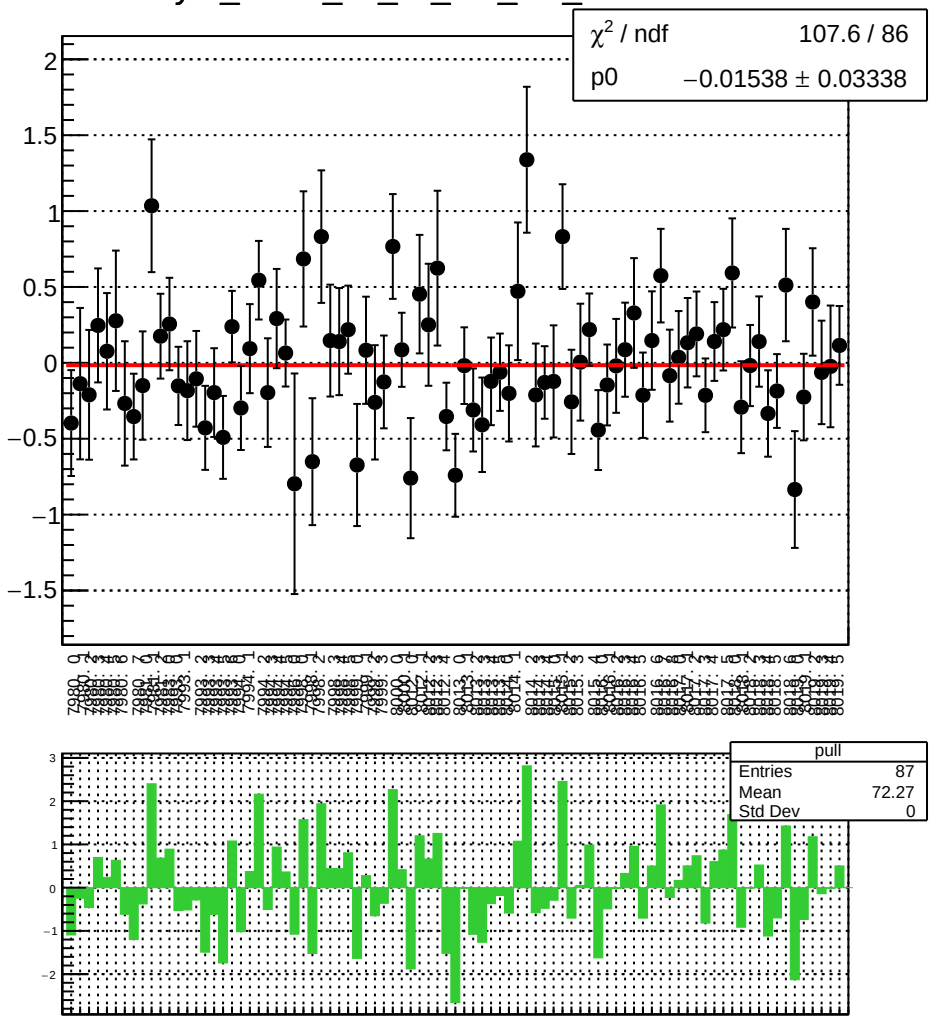

pull1D
Entries 87
Mean 0.004693
Std Dev 1.153
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

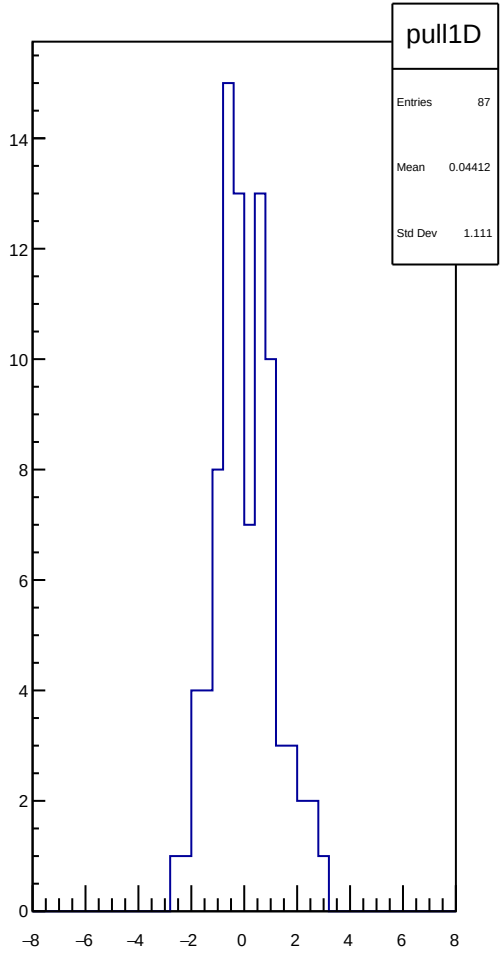

asym_sam7_rms vs run
χ² / ndf 3.762e+04 / 86
p0 803.2 ± 0.6119
1100
1000
900
800
700

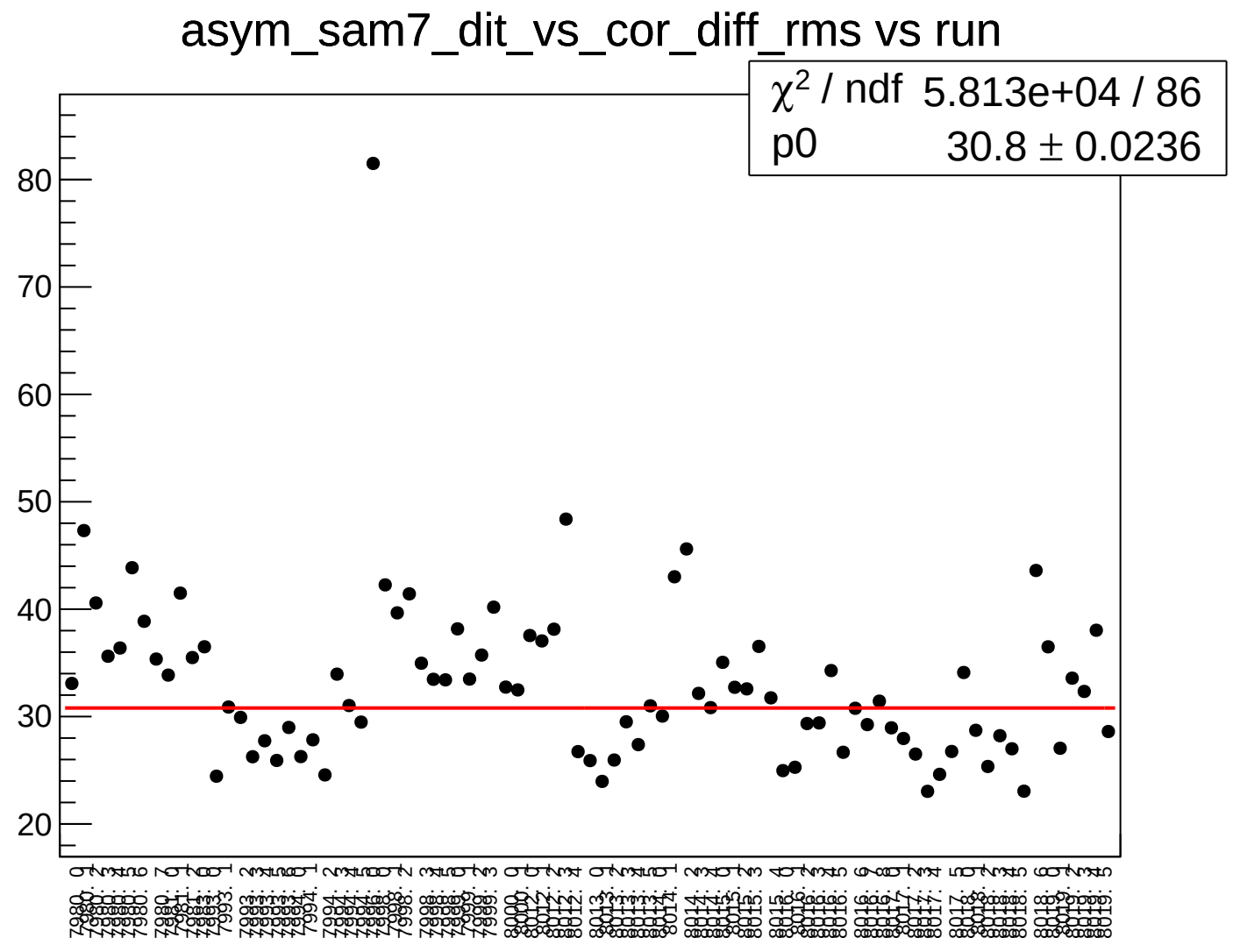

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 105.4 / 86
p0 5.204e−14 ± 1.213e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 87
Mean 40.69
Std Dev 43.64
2
1
0
−1
−2
−3

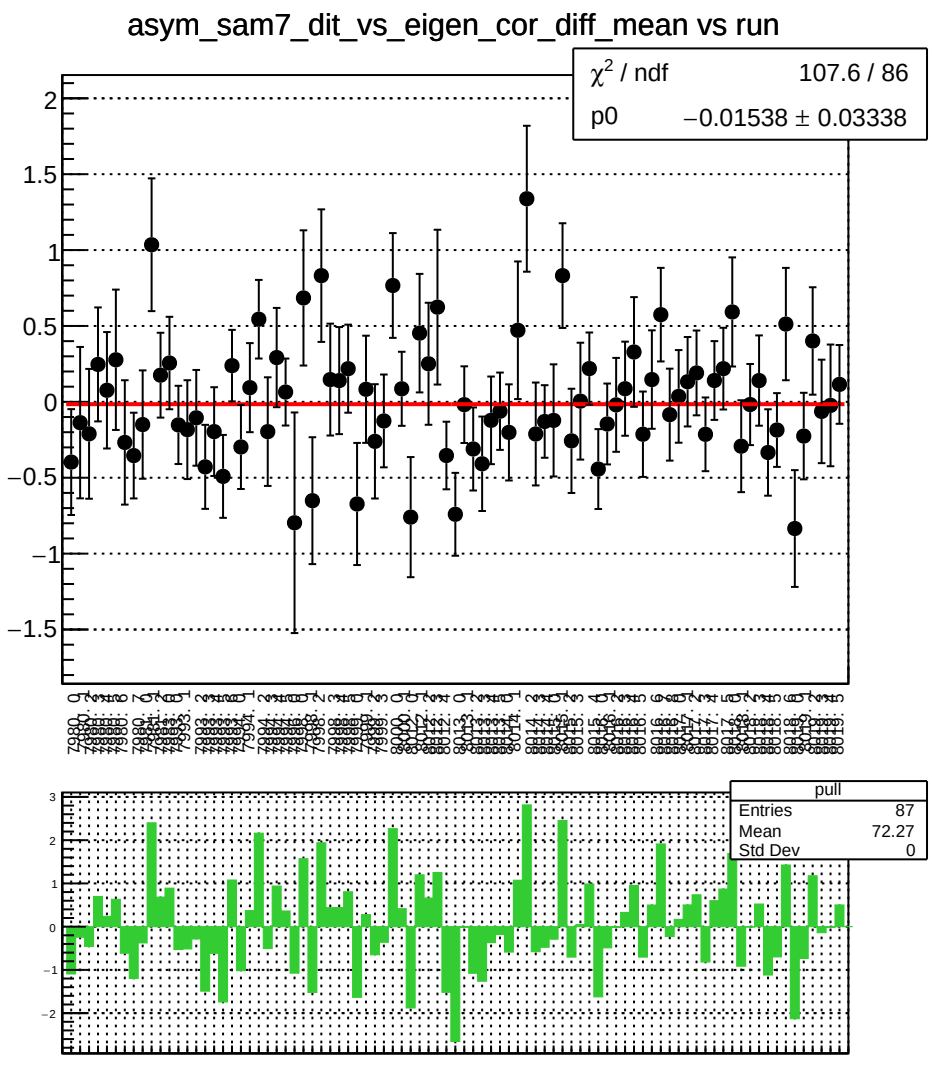

pull1D
Entries 87
Mean −0.02563
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

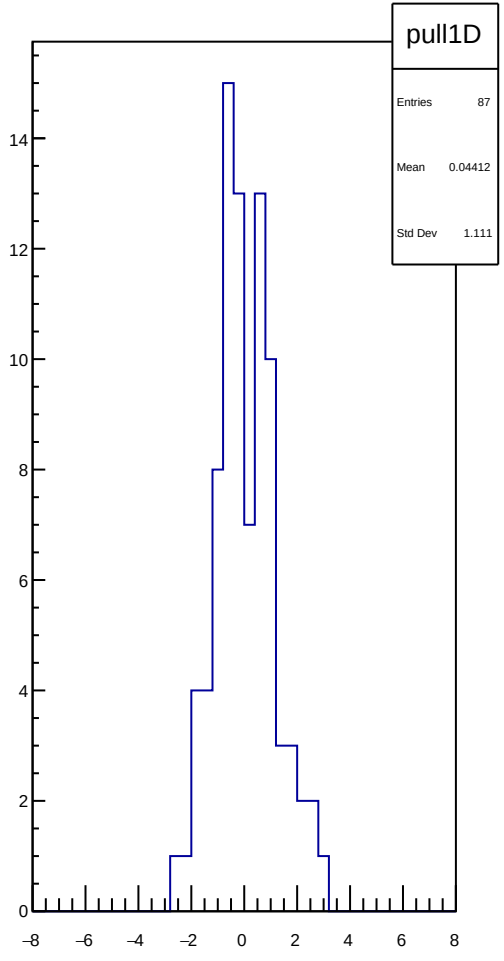

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 86
p0 6.729e−11 ± 8.576e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

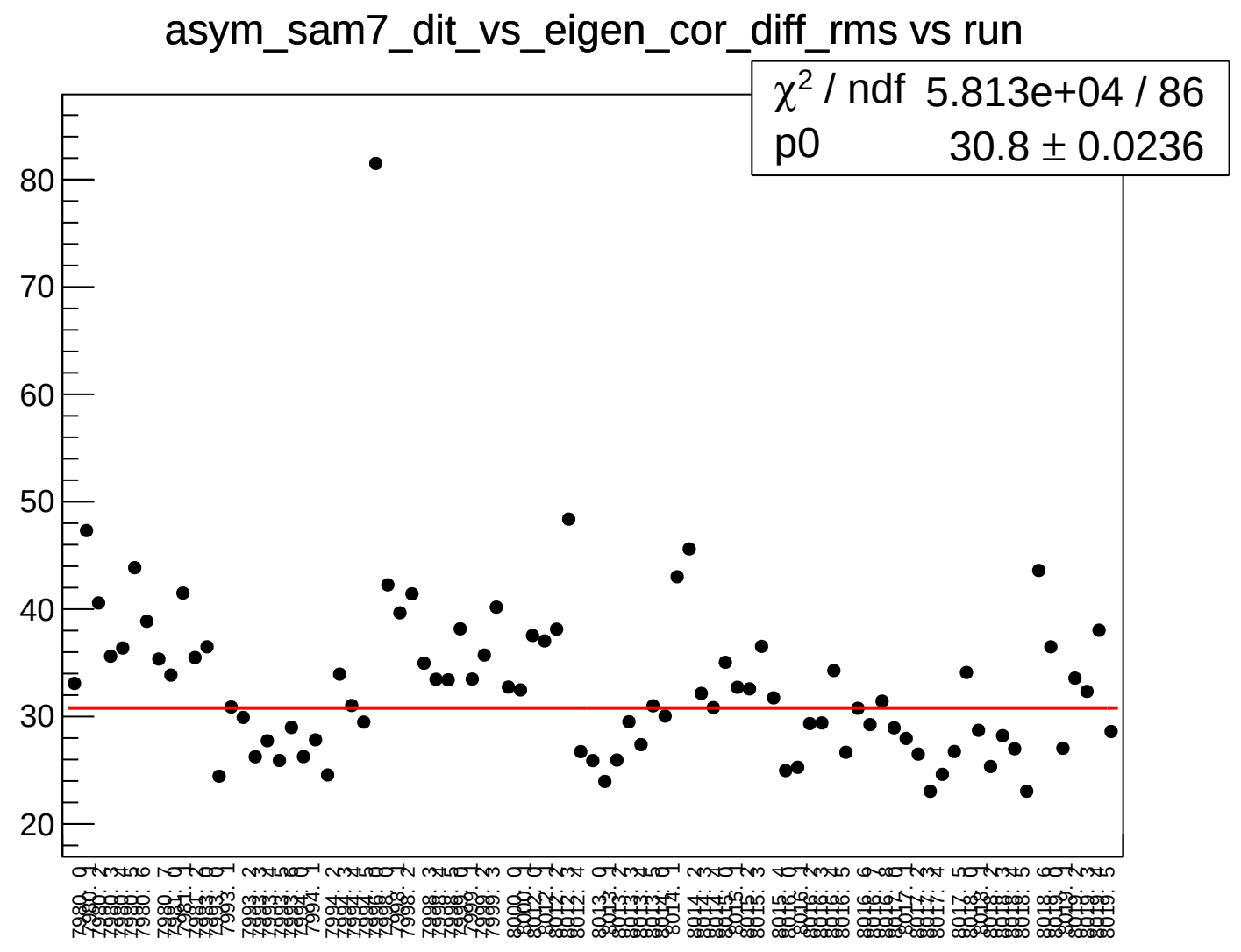

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 86
p0 −0.01538 ± 0.03338
pull
Entries 87
Mean 72.27
Std Dev 0

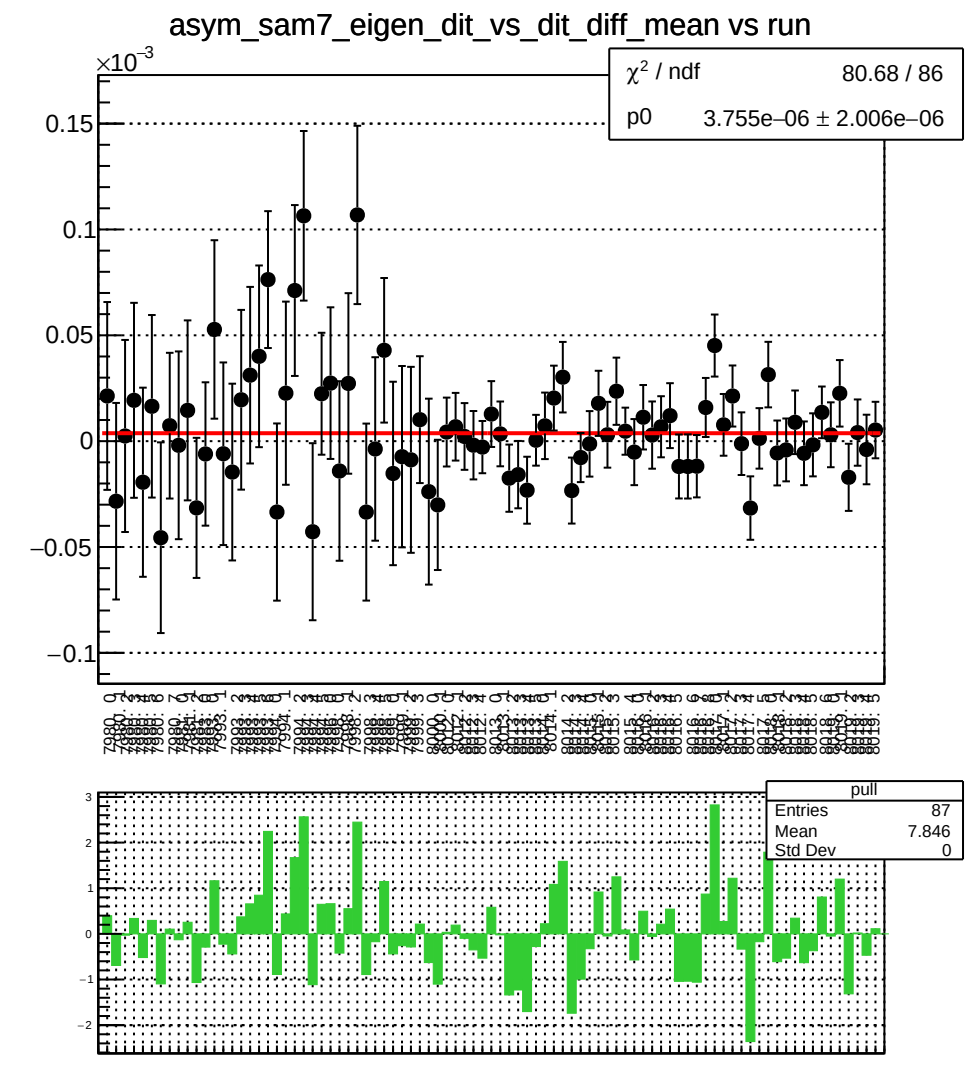

pull1D
Entries 87
Mean 0.04412
Std Dev 1.111

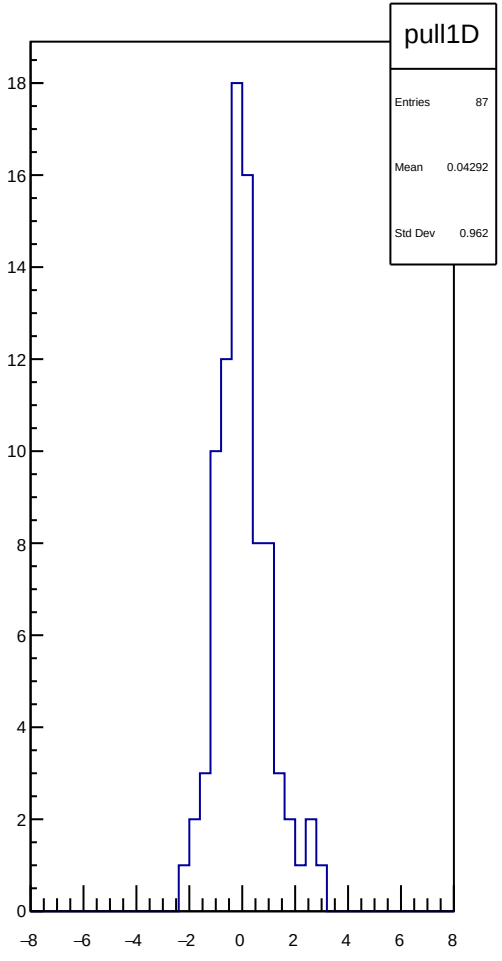

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 5.813e+04 / 86
p0 30.8 ± 0.0236
80
70
60
50
40
30
20

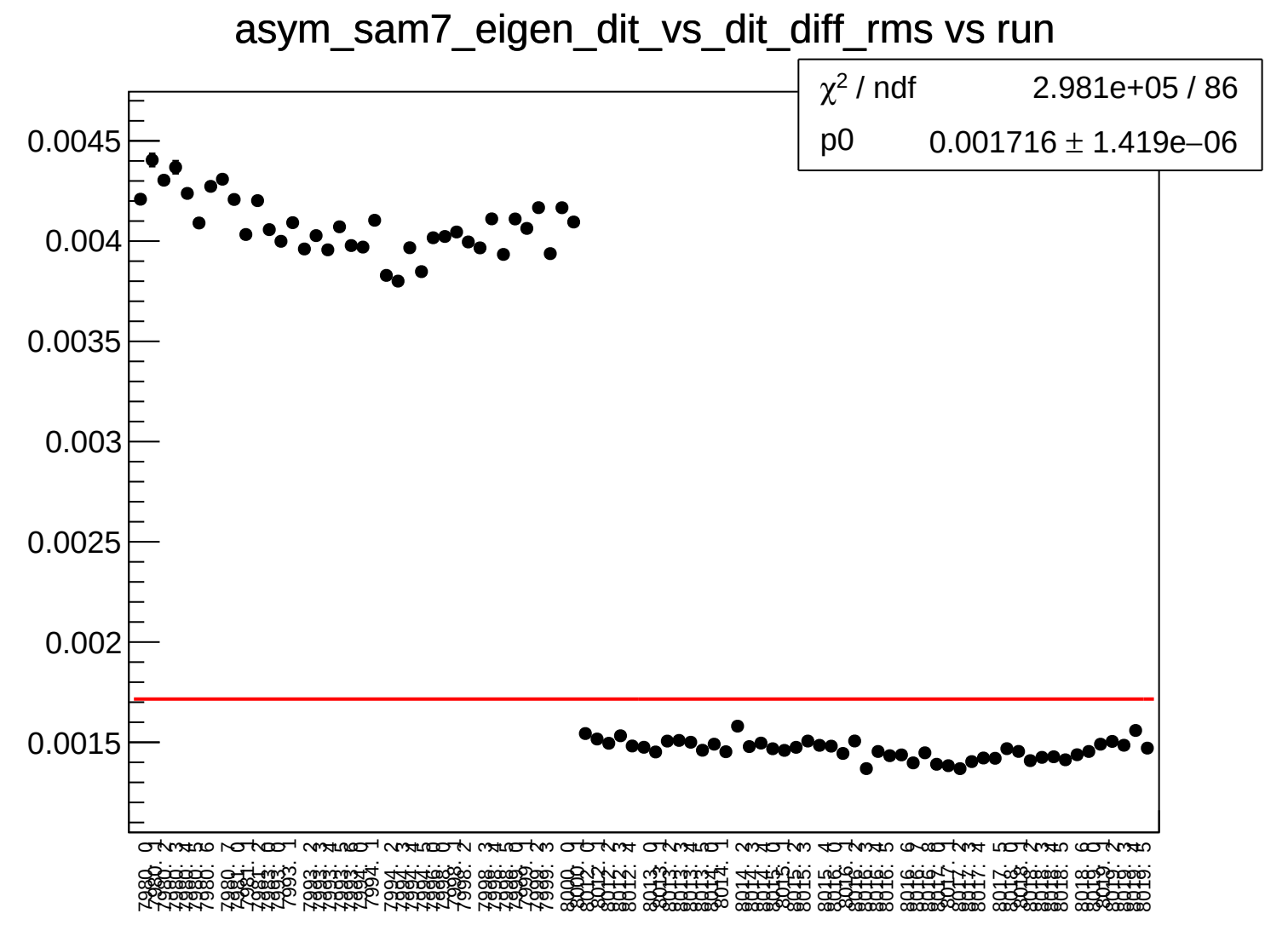

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.6 / 86
p0 −0.01538 ± 0.03338
pull
Entries 87
Mean 72.27
Std Dev 0

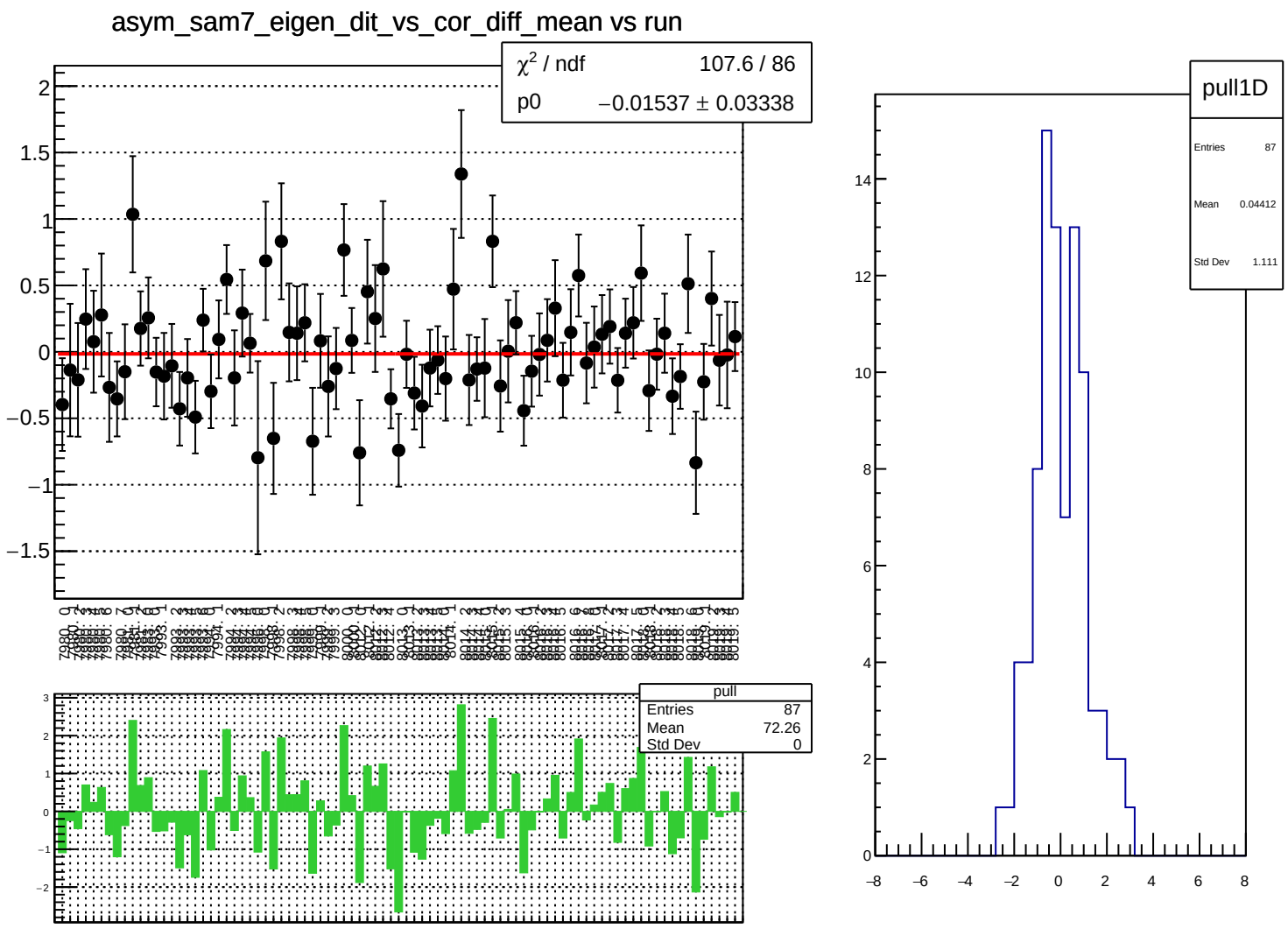

pull1D
Entries 87
Mean 0.04412
Std Dev 1.111

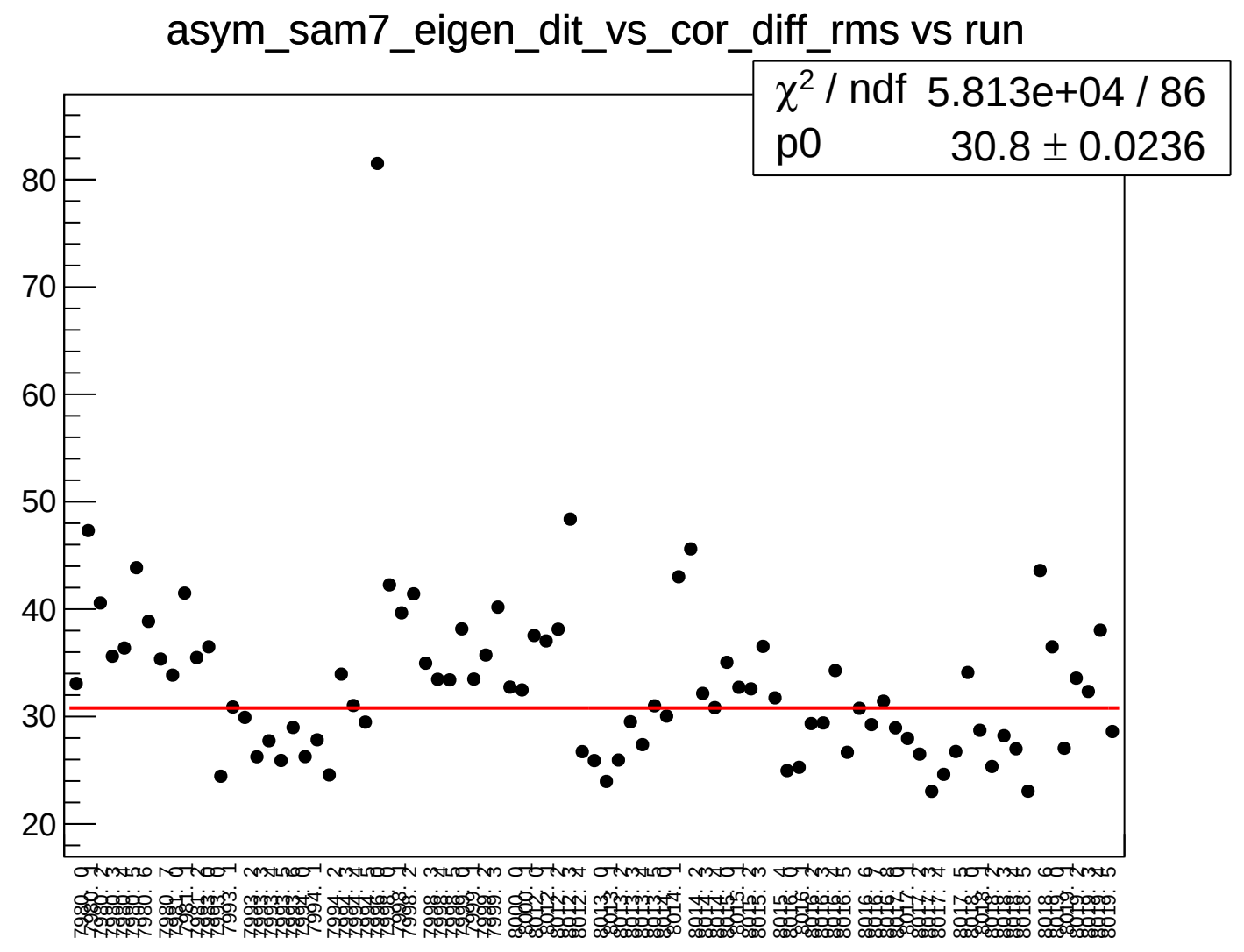

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.813e+04 / 86
p0 30.8 ± 0.0236
80
70
60
50
40
30
20

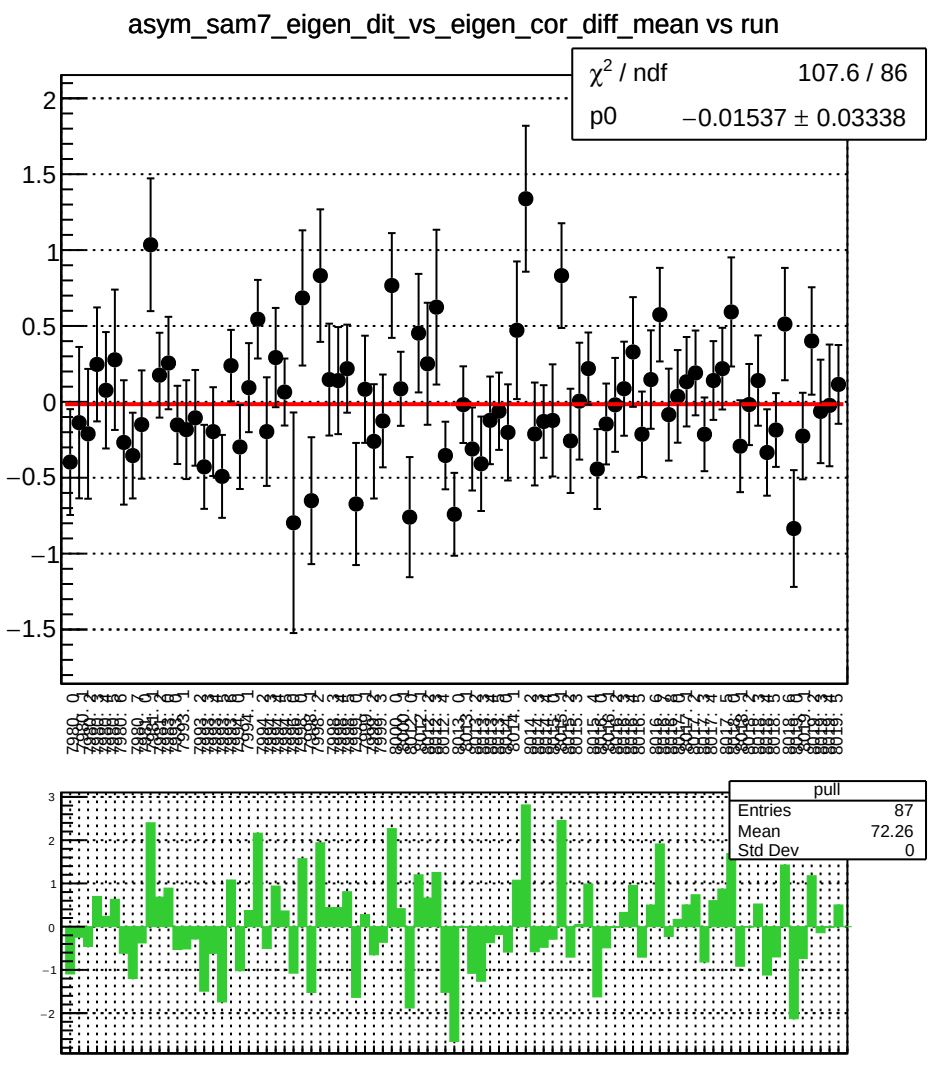

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.68 / 86
p0 3.755e−06 ± 2.006e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 7.846
Std Dev 0
3
2
1
0
−1
−2

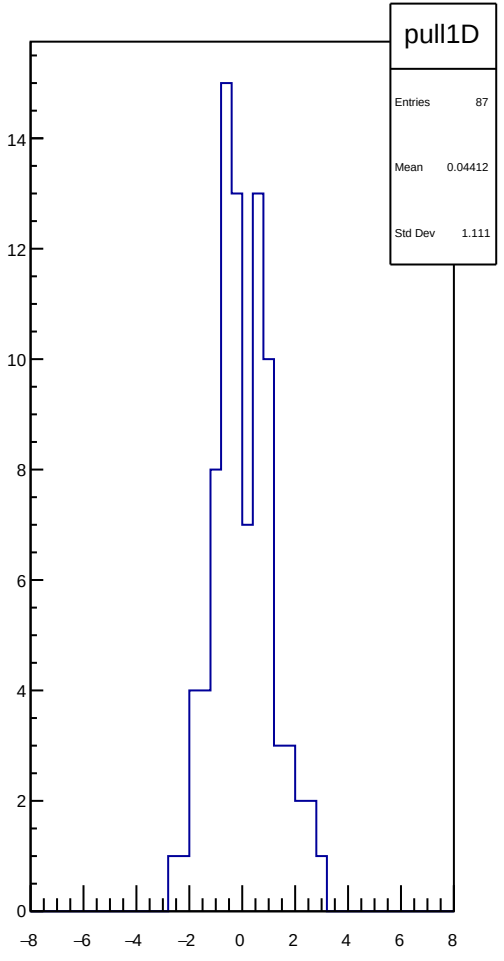

pull1D
Entries 87
Mean 0.04292
Std Dev 0.962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

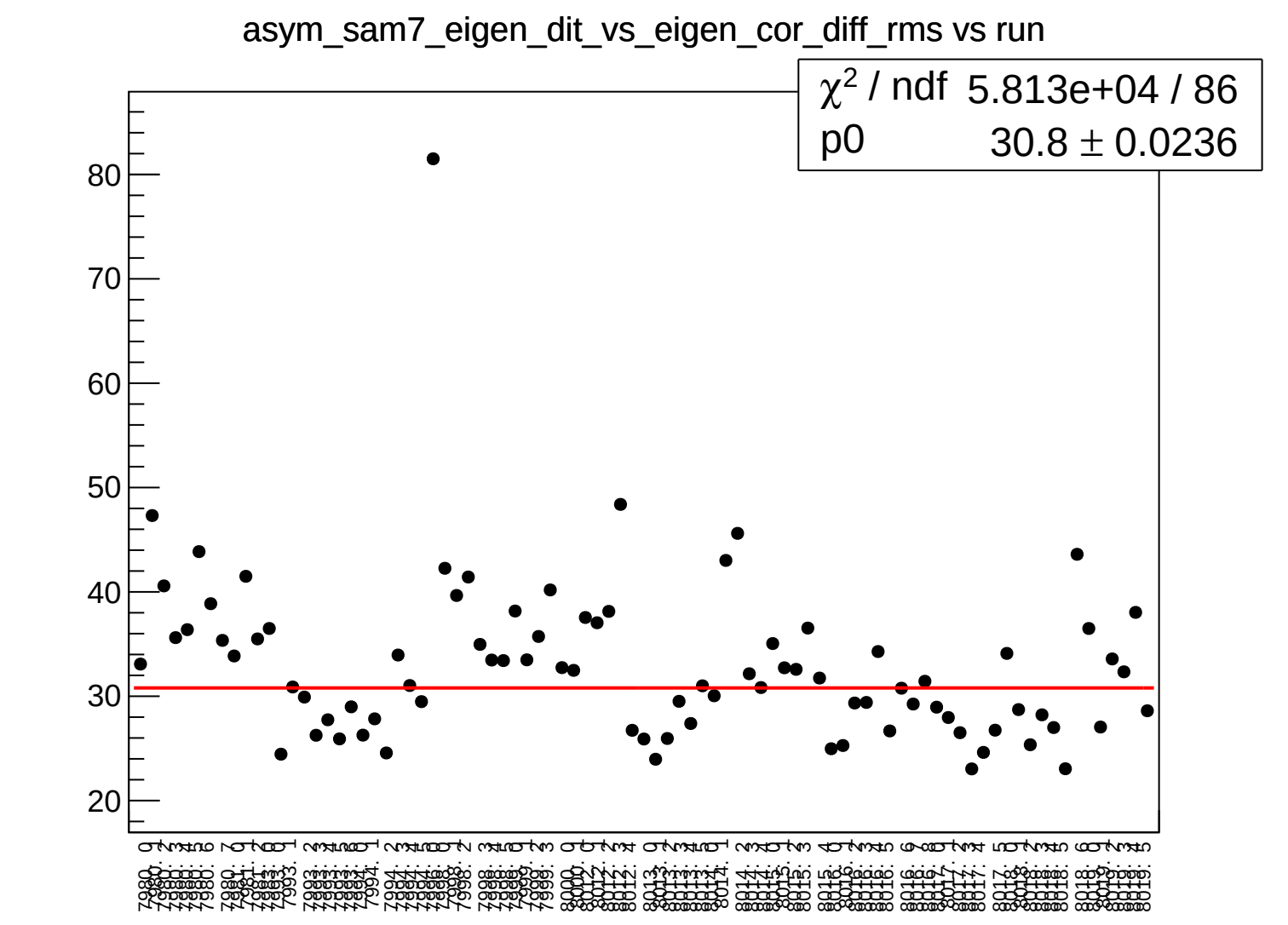

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.981e+05 / 86
p0 0.001716 ± 1.419e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

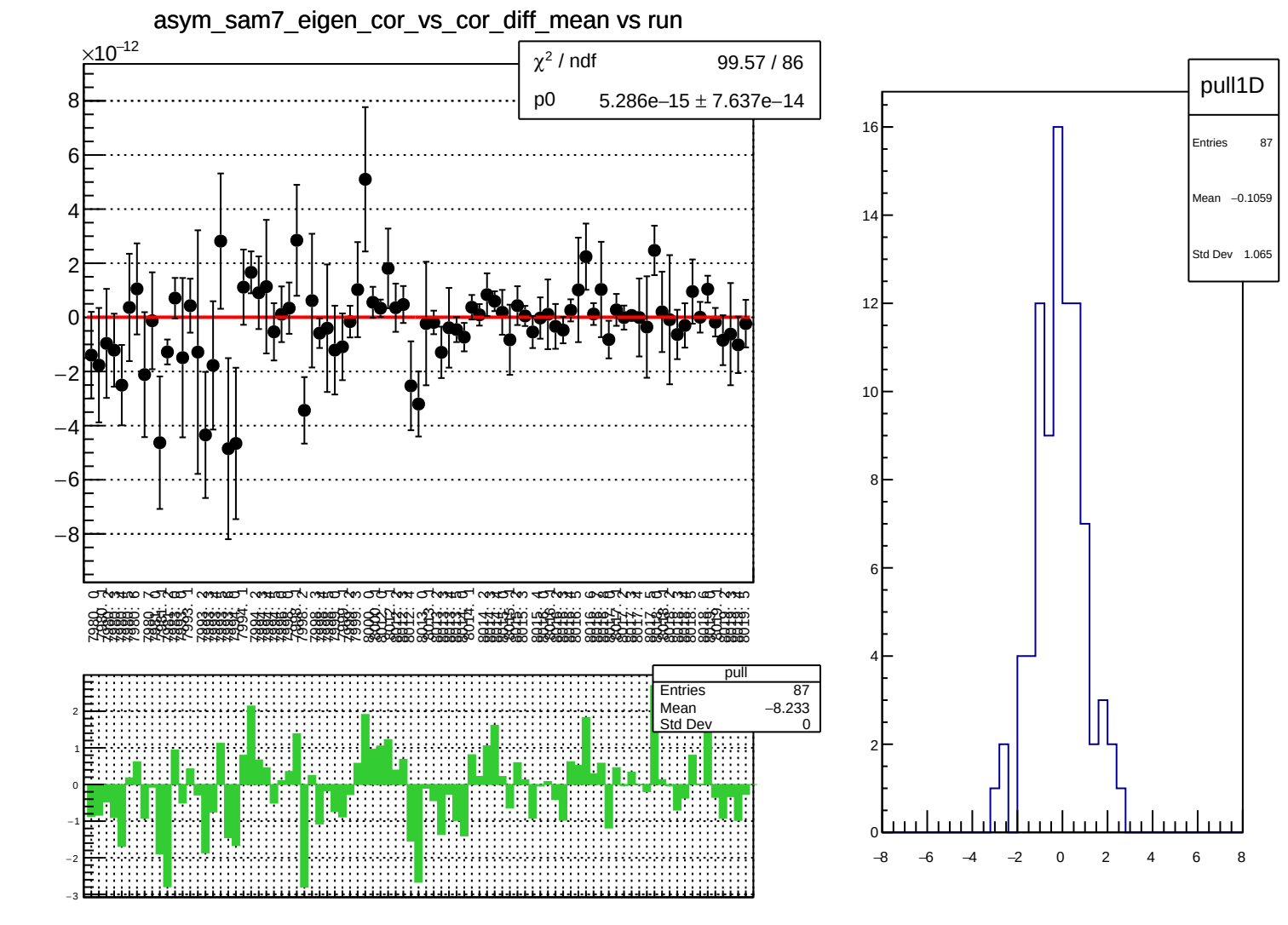

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.6 / 86
p0 −0.01537 ± 0.03338
pull
Entries 87
Mean 72.26
Std Dev 0
pull1D
Entries 87
Mean 0.04412
Std Dev 1.111

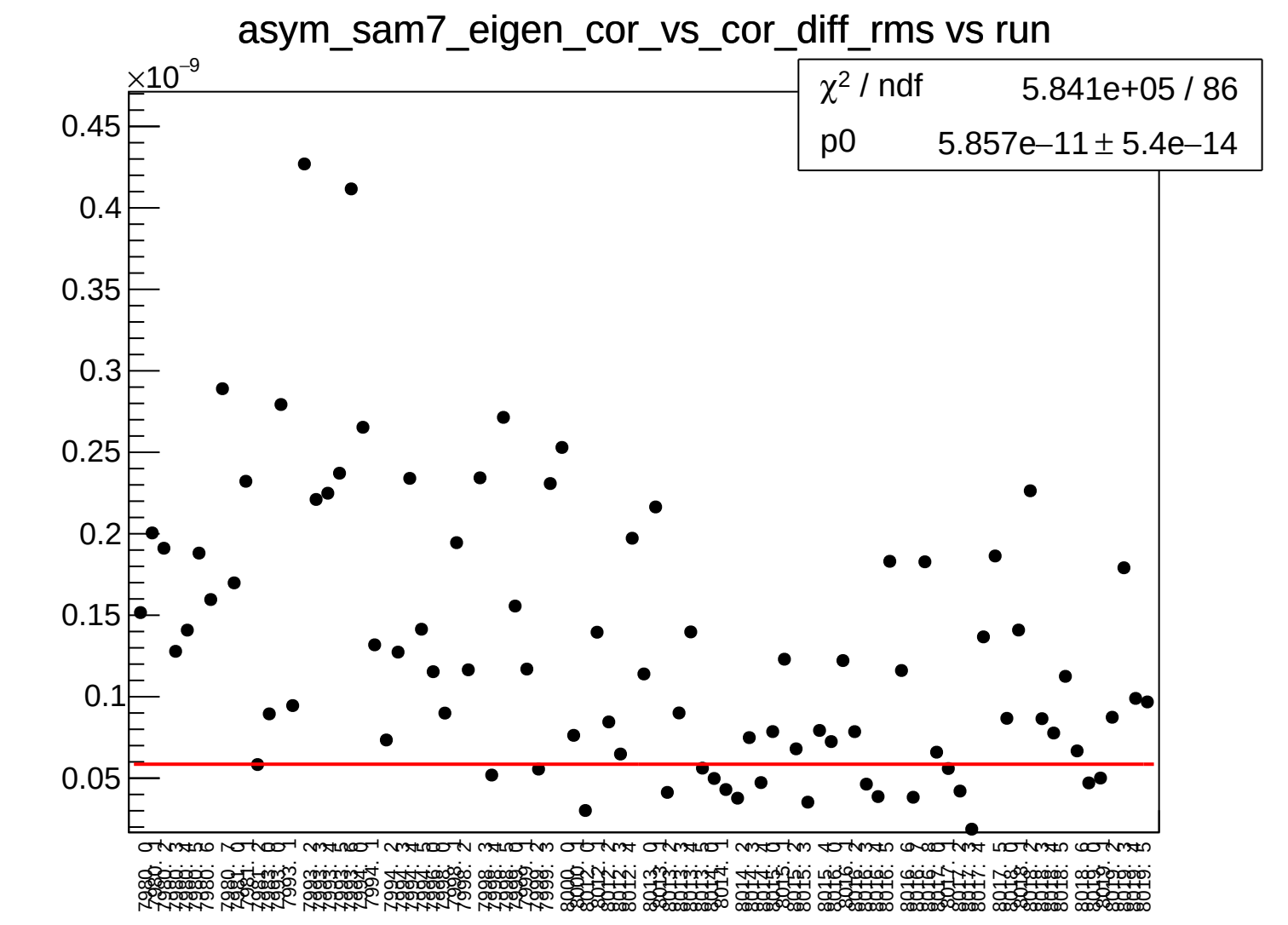

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.813e+04 / 86
p0 30.8 ± 0.0236
80
70
60
50
40
30
20

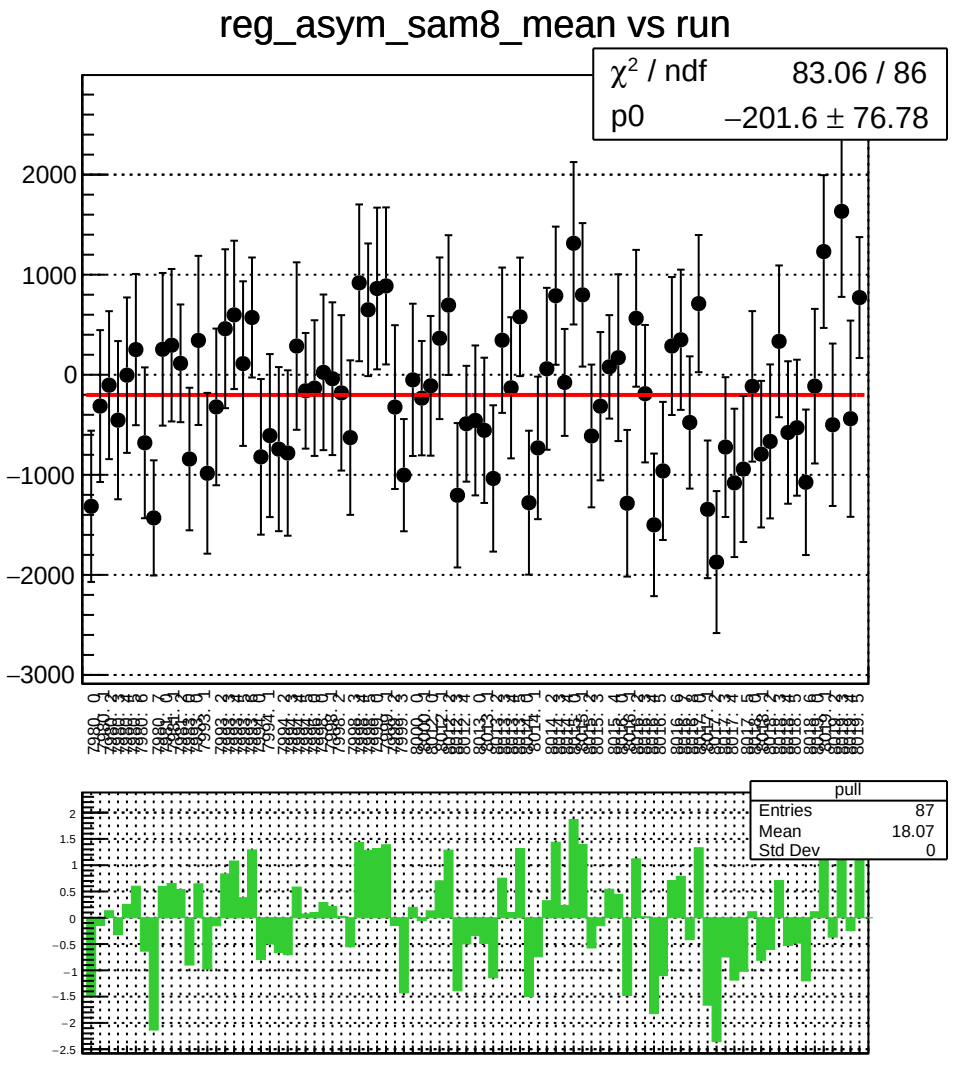

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.6 / 86
p0 −0.01537 ± 0.03338
pull
Entries 87
Mean 72.26
Std Dev 0

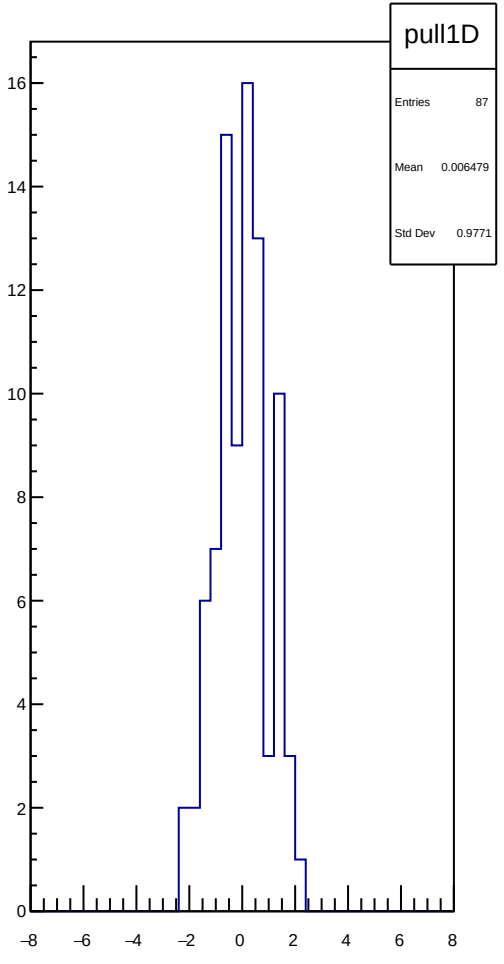

pull1D
Entries 87
Mean 0.04412
Std Dev 1.111

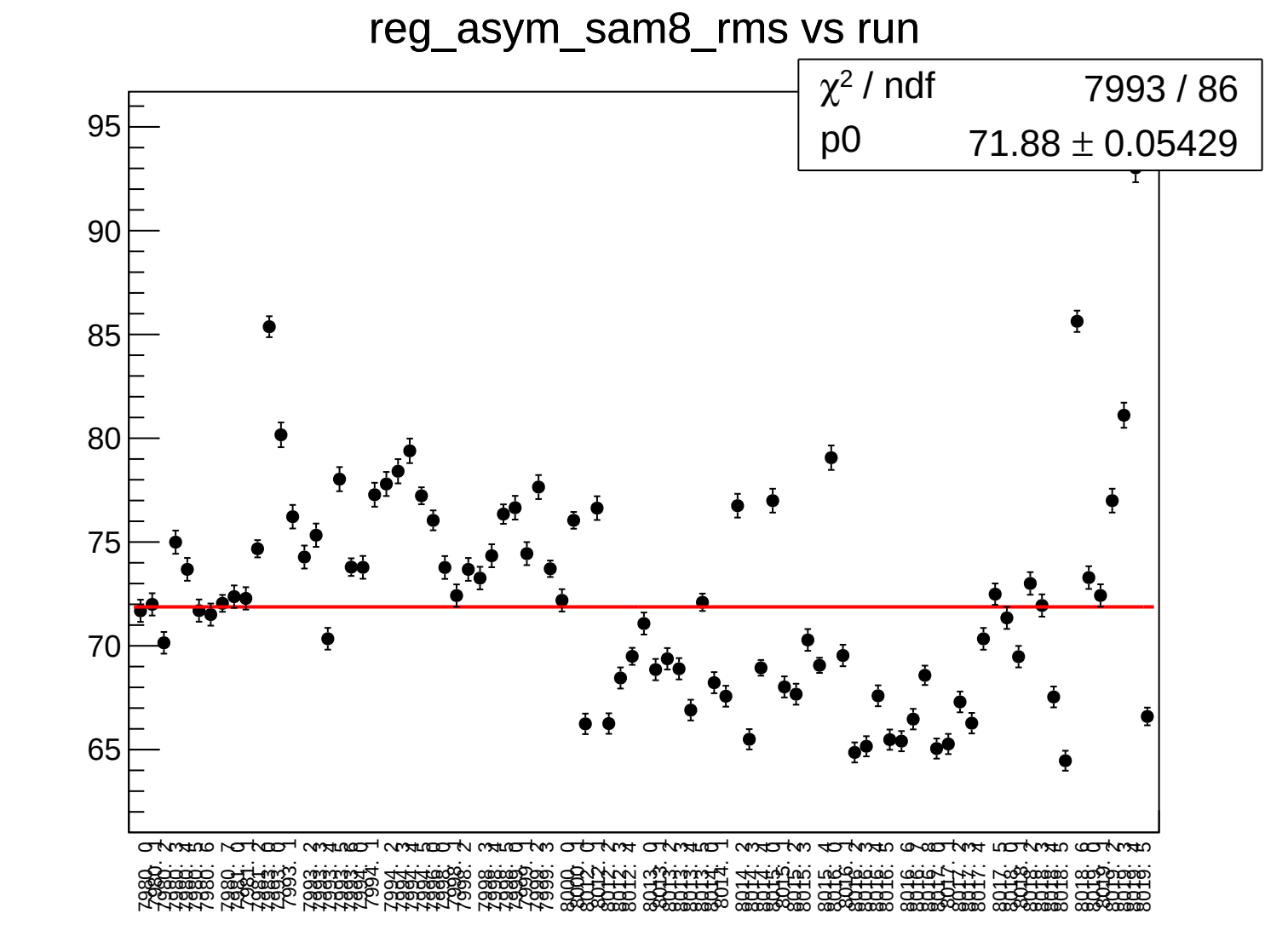

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.813e+04 / 86
p0 30.8 ± 0.0236
80
70
60
50
40
30
20

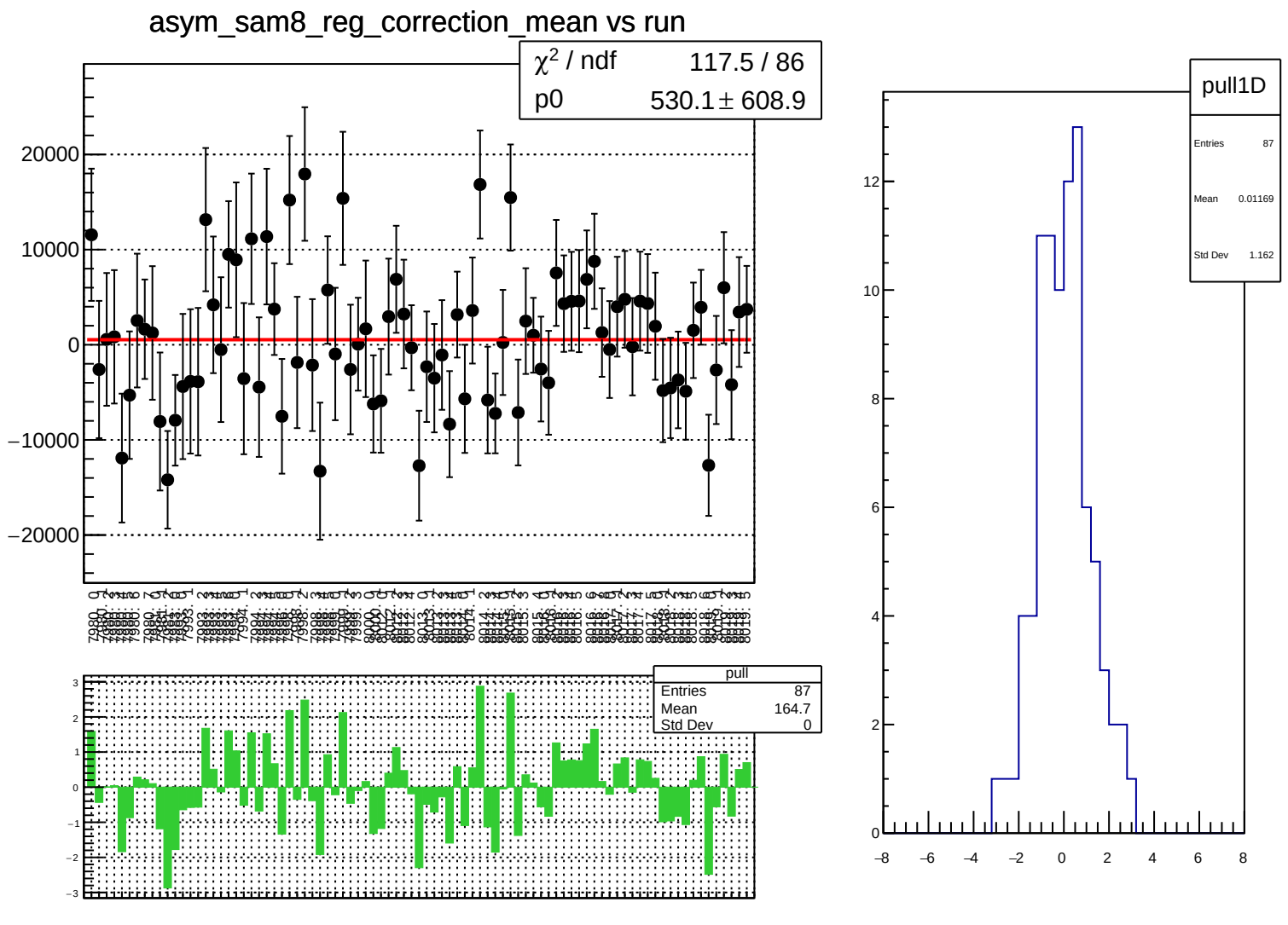

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.57 / 86
p0 5.286e−15 ± 7.637e−14
pull
Entries 87
Mean −8.233
Std Dev 0
pull1D
Entries 87
Mean −0.1059
Std Dev 1.065

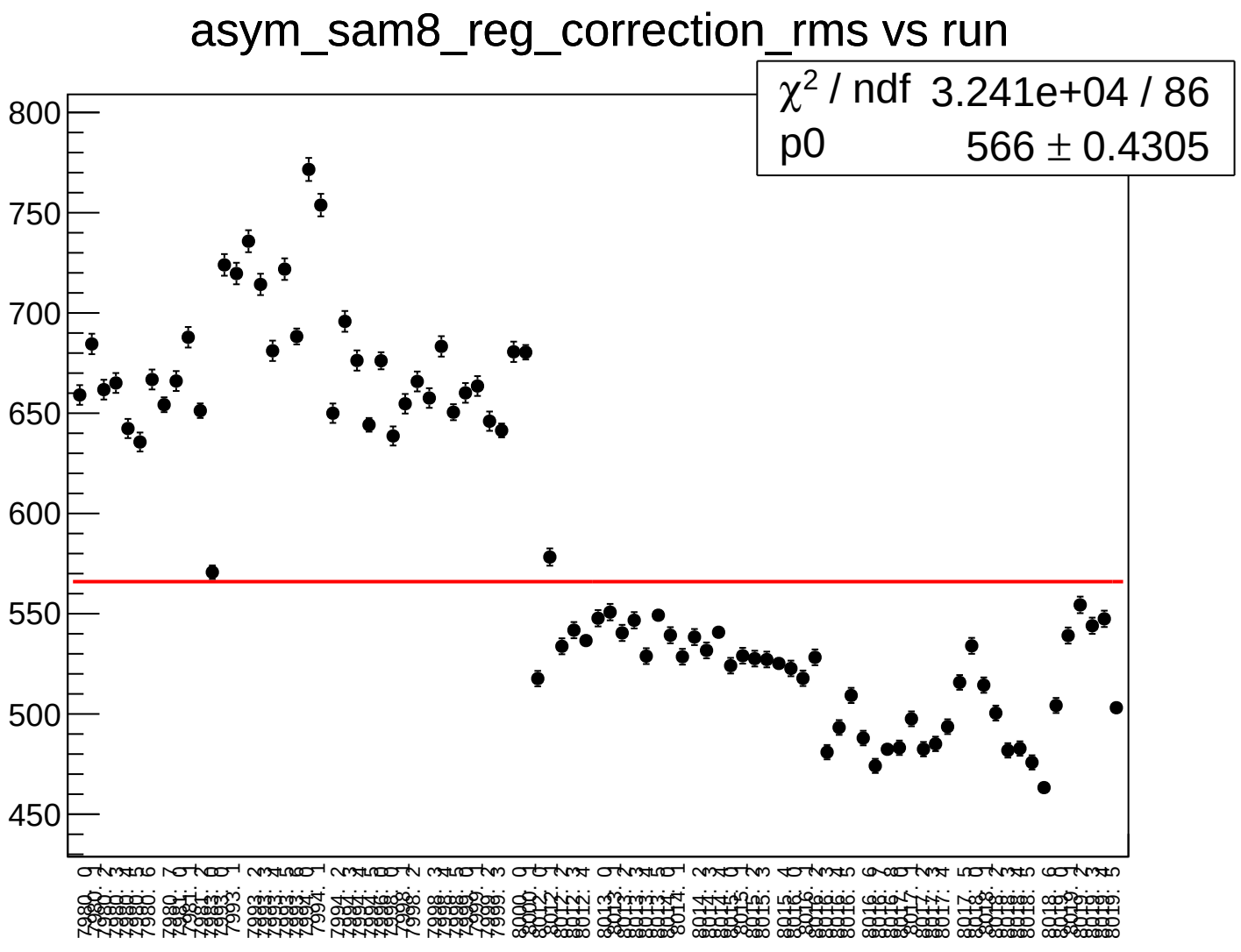

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.841e+05 / 86
p0 5.857e−11 ± 5.4e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

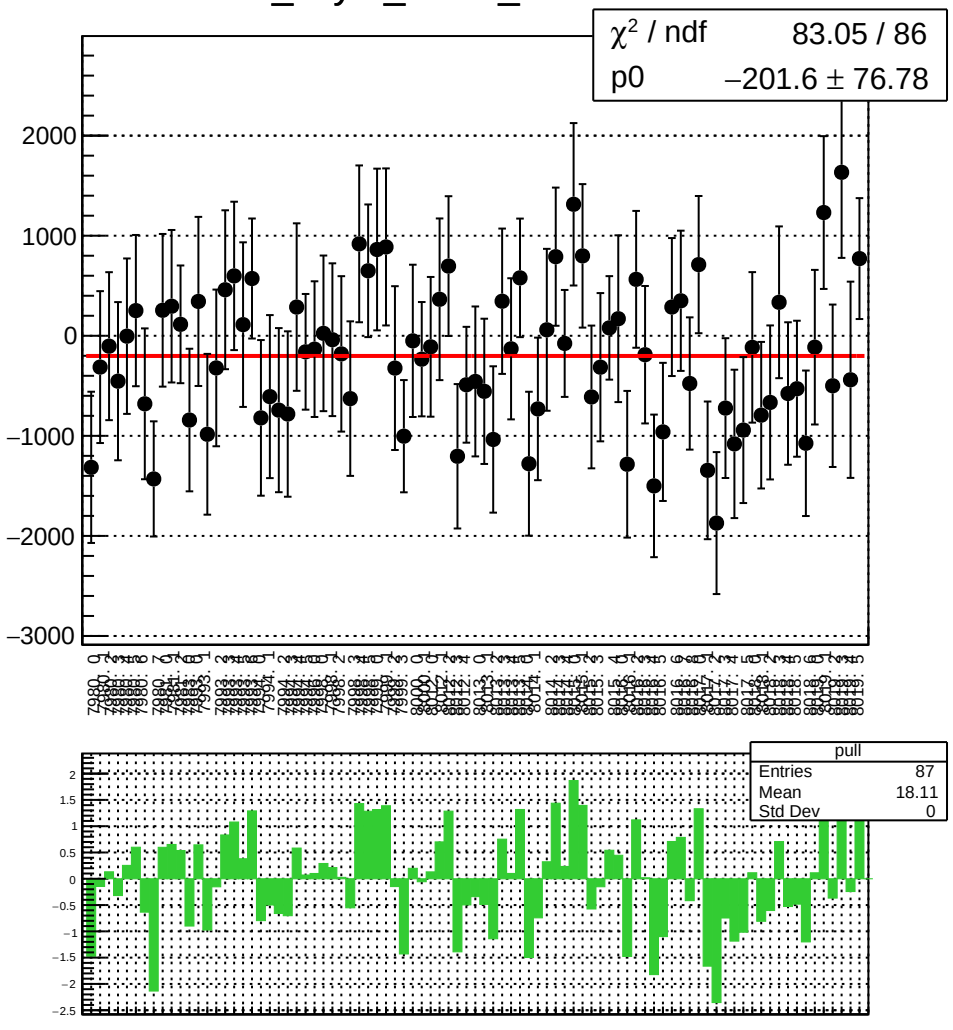

reg_asym_sam8_mean vs run
χ² / ndf 83.06 / 86
p0 −201.6 ± 76.78
pull
Entries 87
Mean 18.07
Std Dev 0

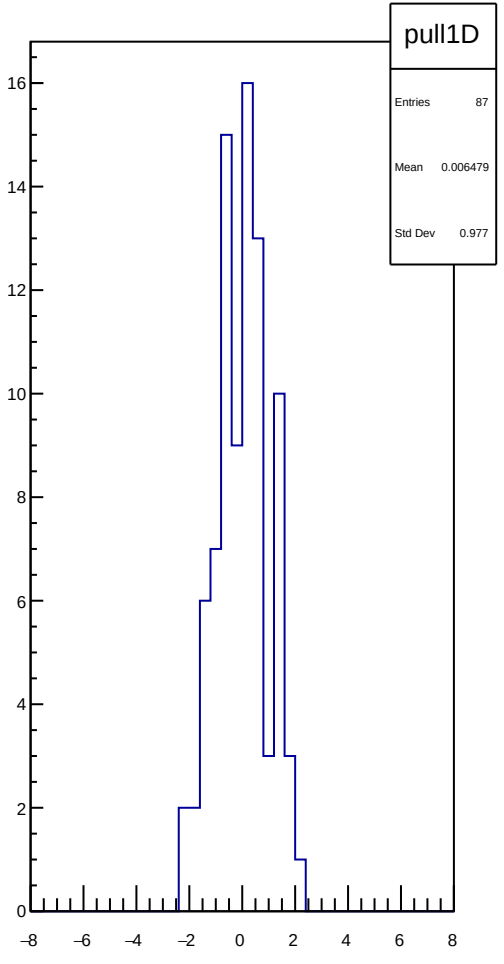

pull1D
Entries 87
Mean 0.006479
Std Dev 0.9771

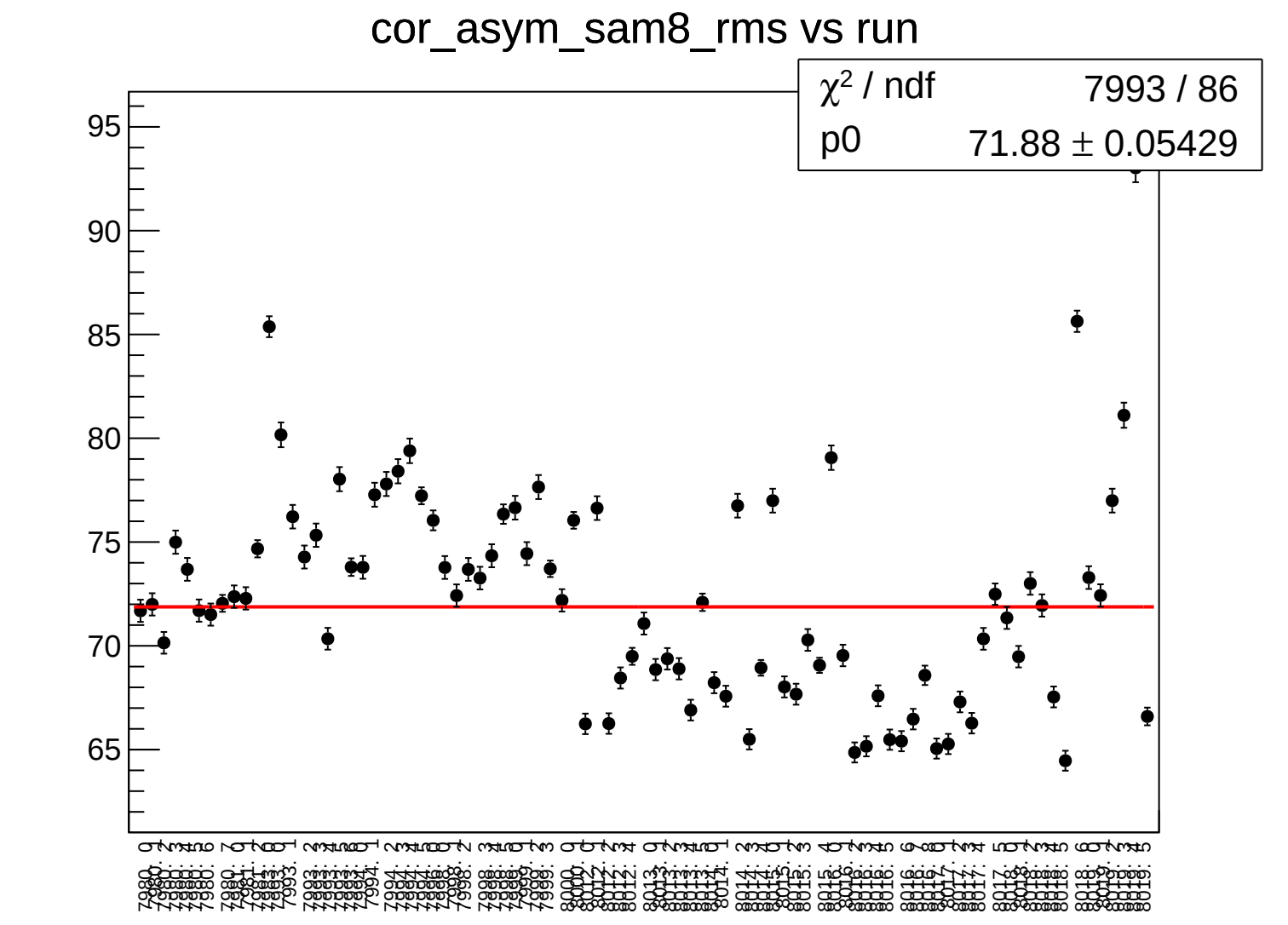

reg_asym_sam8_rms vs run
χ^2 / ndf 7993 / 86
p0 71.88 ± 0.05429
95
90
85
80
75
70
65

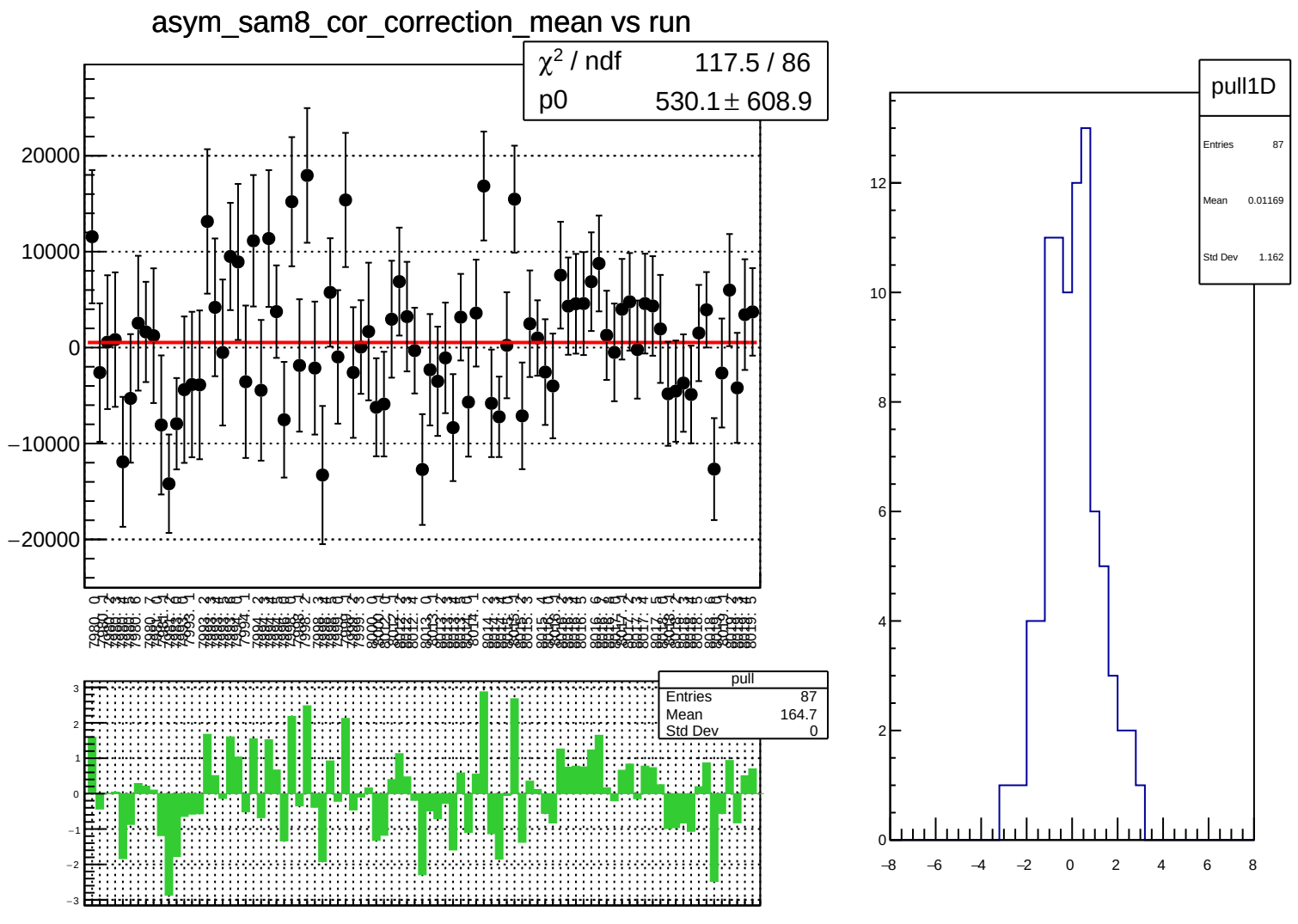

asym_sam8_reg_correction_mean vs run
χ² / ndf 117.5 / 86
p0 530.1 ± 608.9
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 164.7
Std Dev 0
pull1D
Entries 87
Mean 0.01169
Std Dev 1.162
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

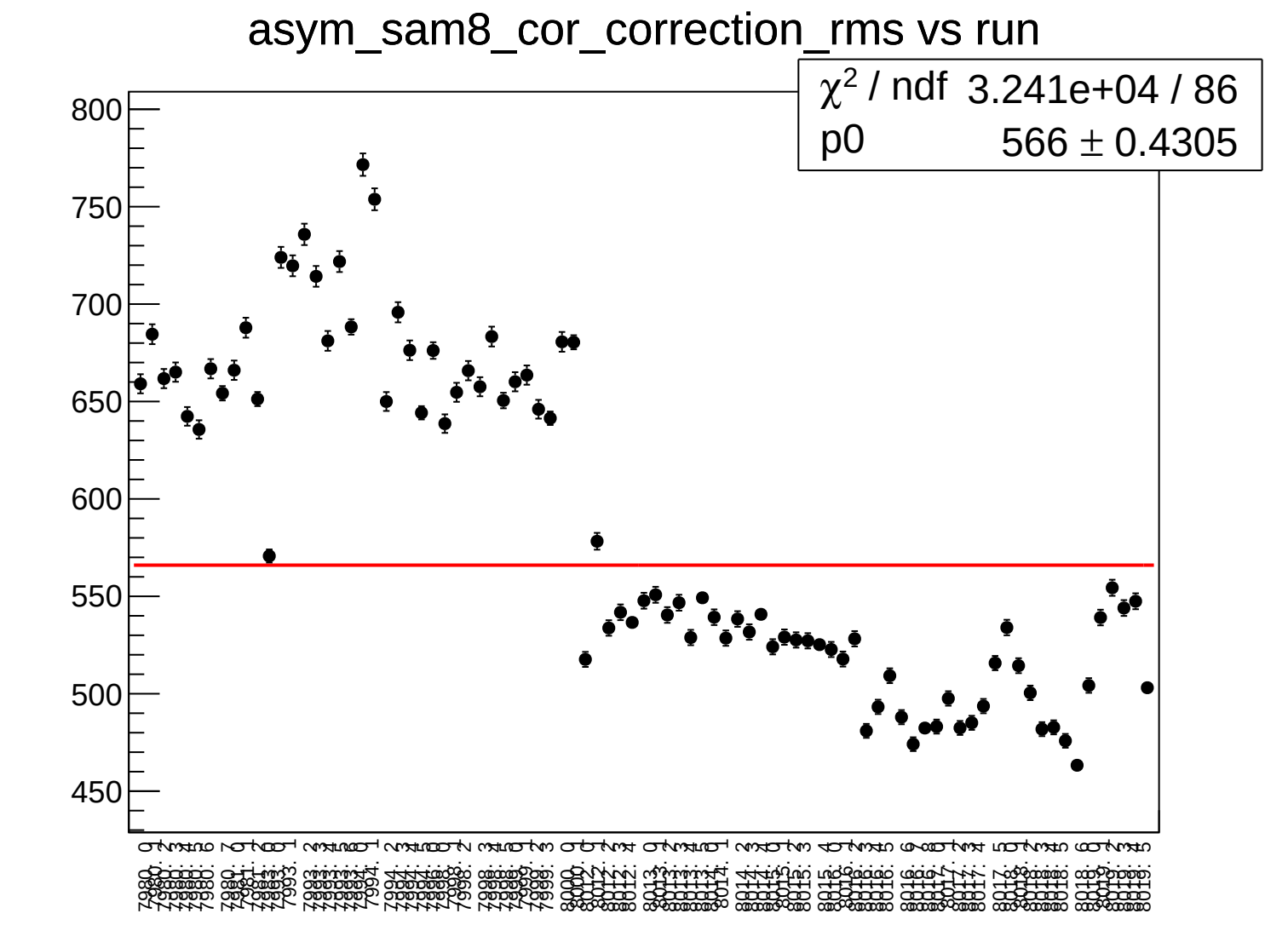

asym_sam8_reg_correction_rms vs run
χ² / ndf 3.241e+04 / 86
p0 566 ± 0.4305
800
750
700
650
600
550
500
450

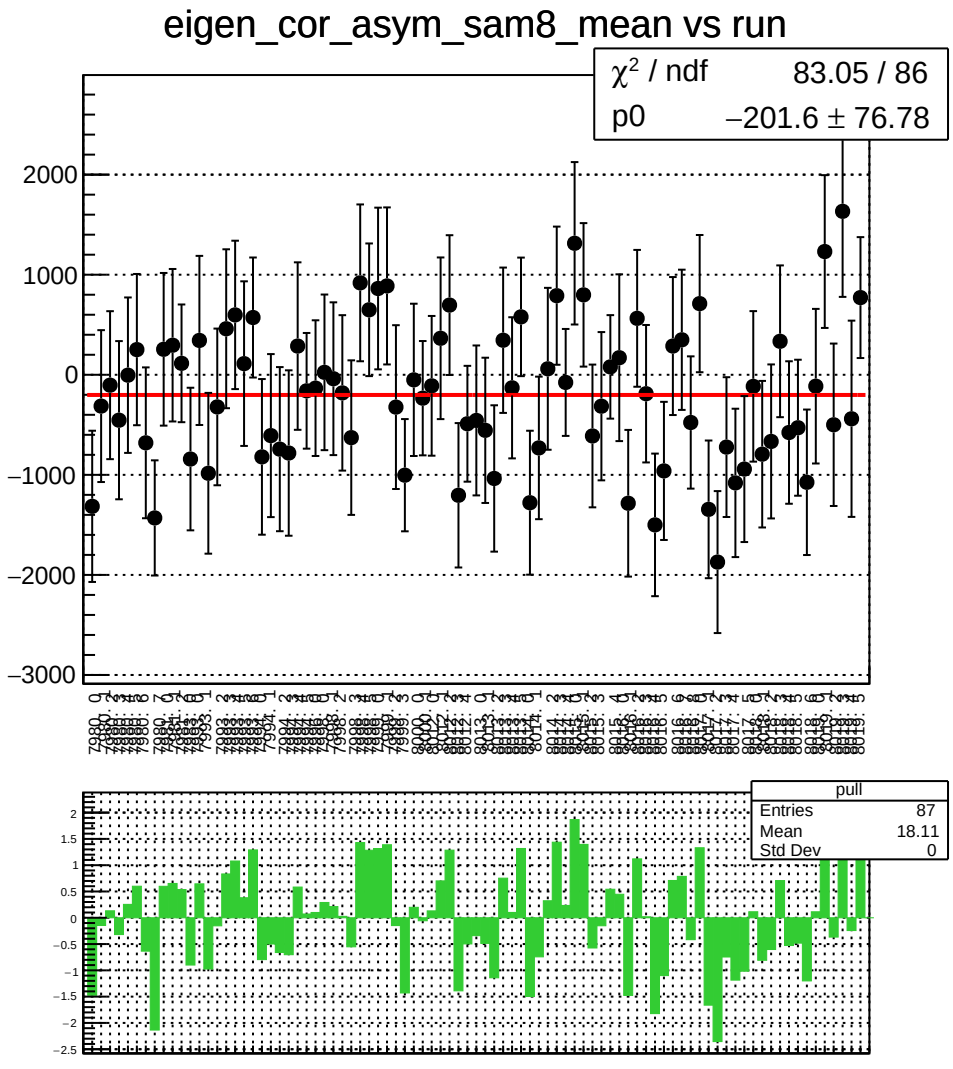

cor_asym_sam8_mean vs run
χ² / ndf 83.05 / 86
p0 −201.6 ± 76.78
pull
Entries 87
Mean 18.11
Std Dev 0

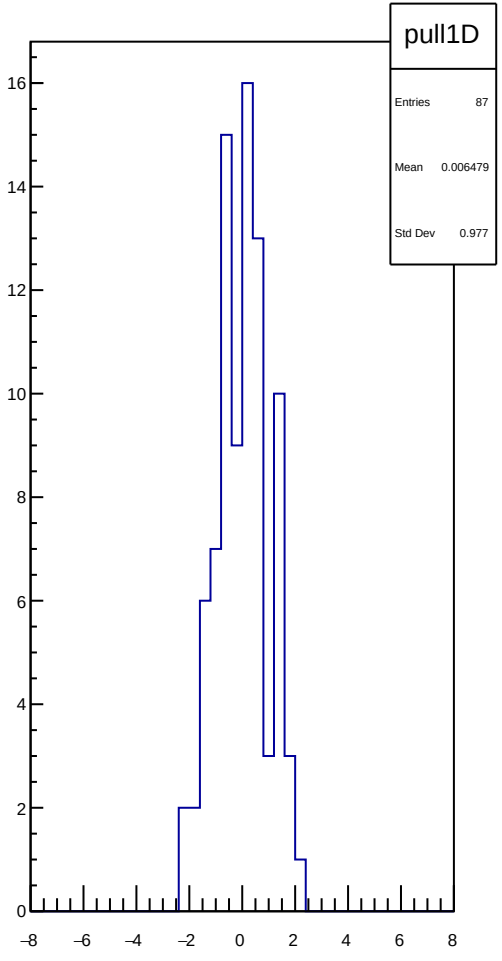

pull1D
Entries 87
Mean 0.006479
Std Dev 0.977

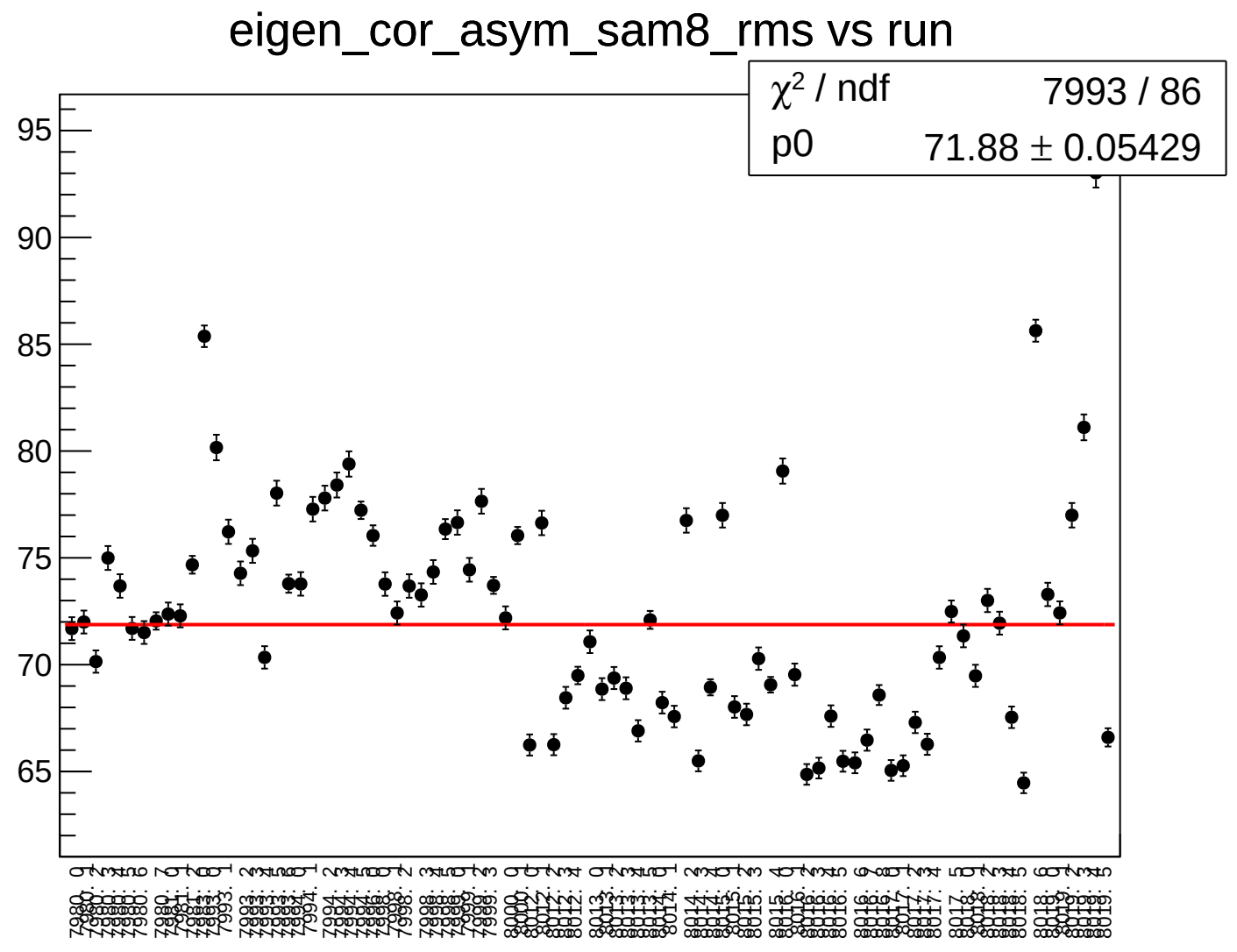

cor_asym_sam8_rms vs run
χ^2 / ndf 7993 / 86
p0 71.88 ± 0.05429
95
90
85
80
75
70
65

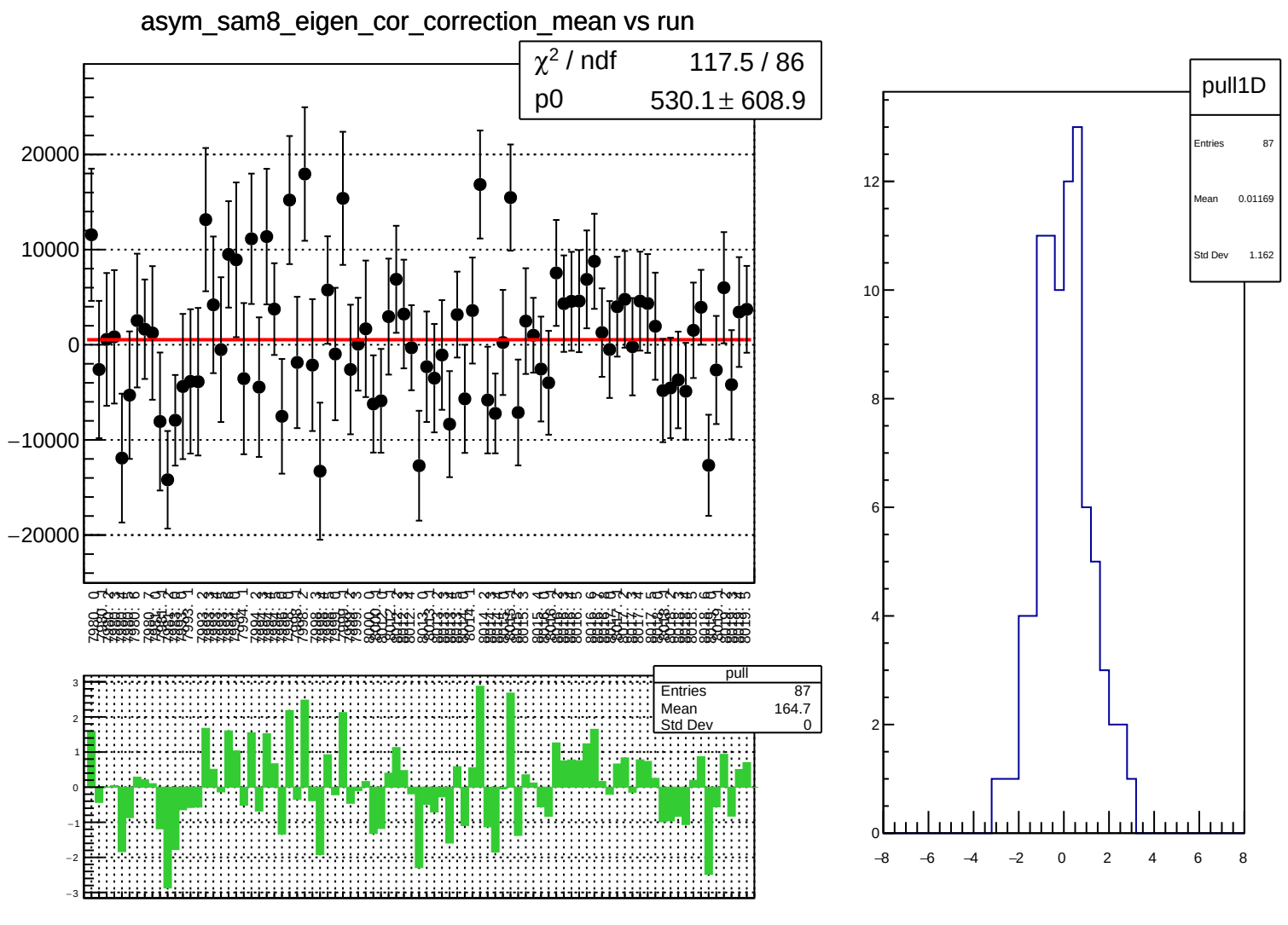

asym_sam8_cor_correction_mean vs run
χ² / ndf 117.5 / 86
p0 530.1 ± 608.9
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 164.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.01169
Std Dev 1.162
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

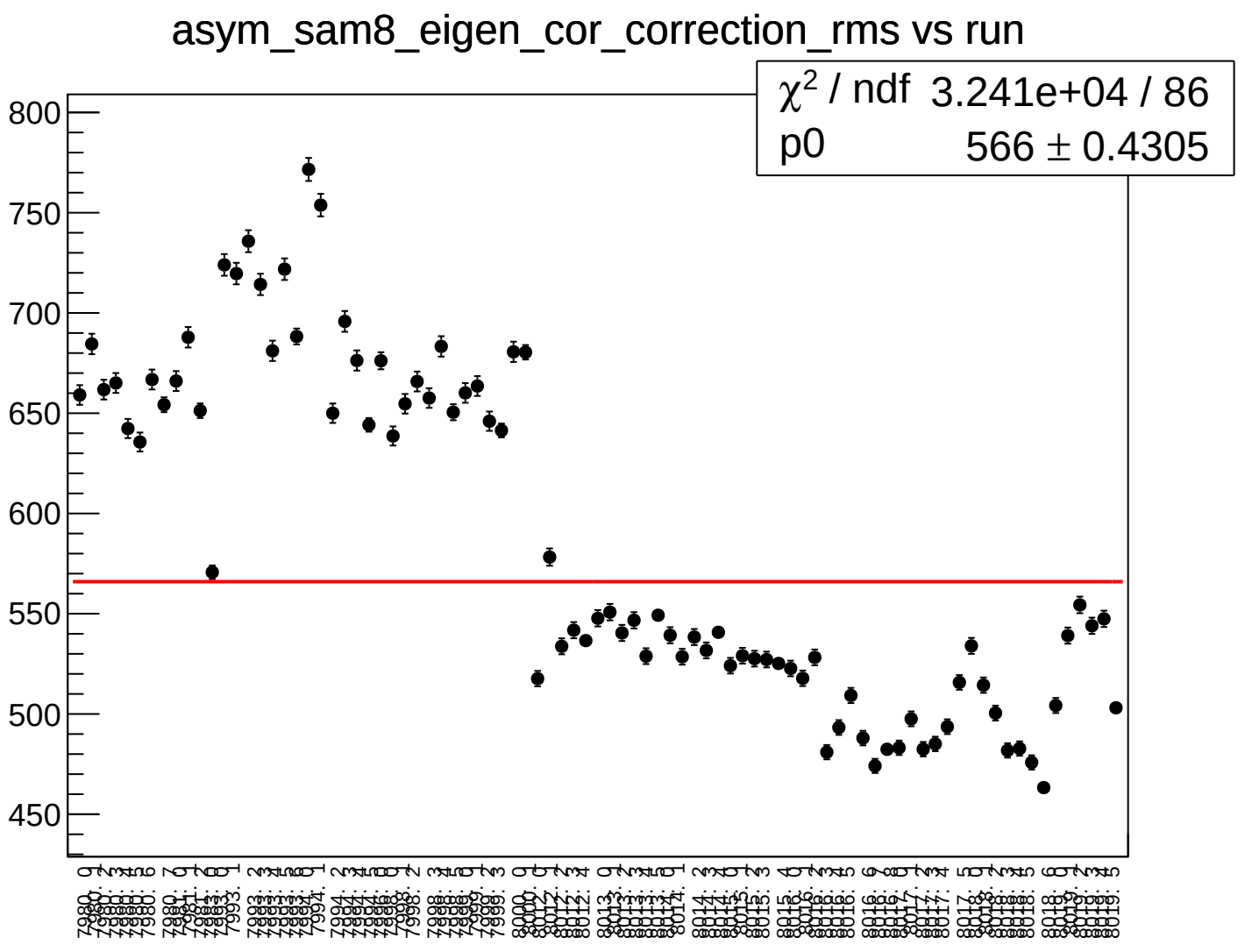

asym_sam8_cor_correction_rms vs run
χ² / ndf 3.241e+04 / 86
p0 566 ± 0.4305
800
750
700
650
600
550
500
450

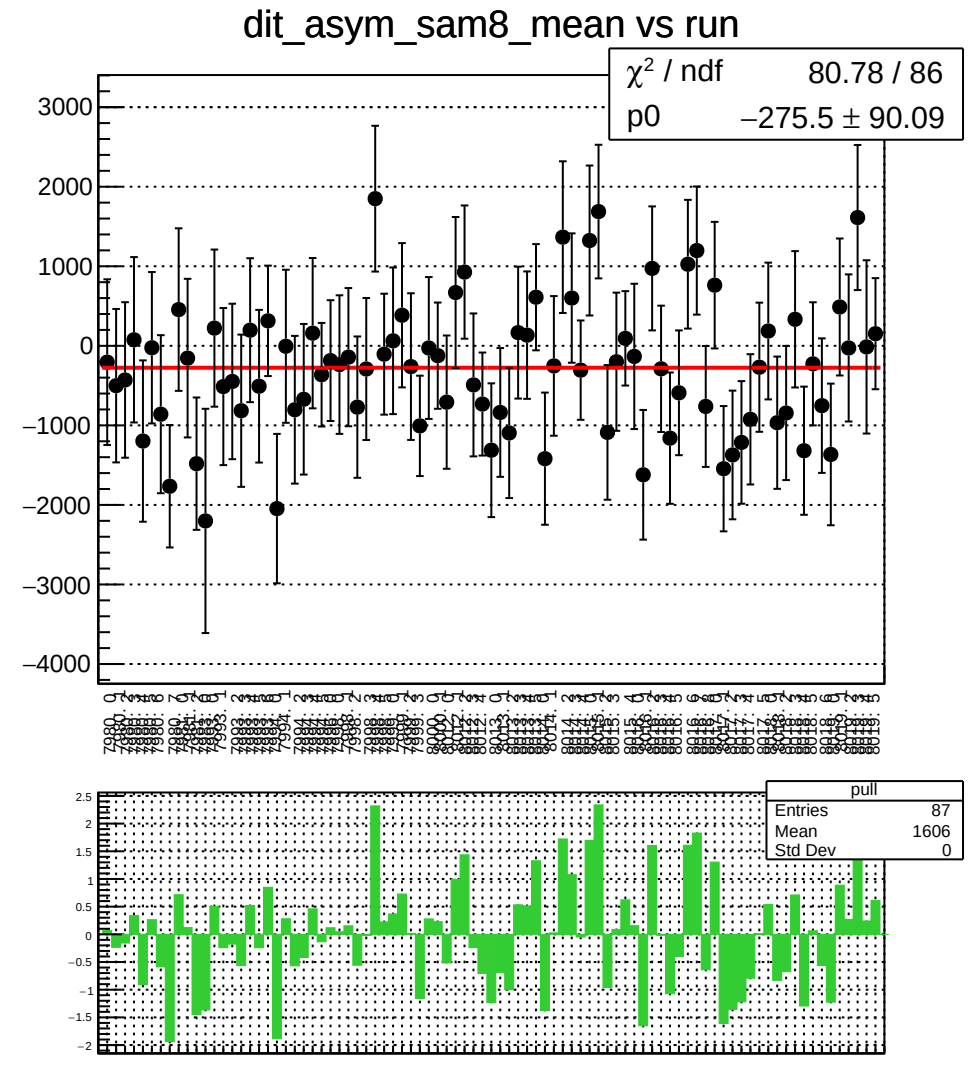

eigen_cor_asym_sam8_mean vs run
χ² / ndf 83.05 / 86
p0 −201.6 ± 76.78
pull
Entries 87
Mean 18.11
Std Dev 0

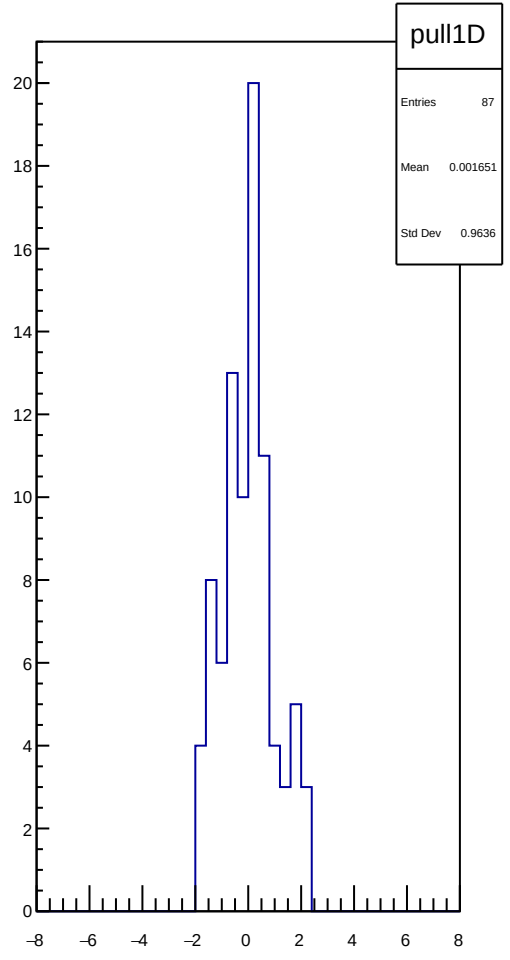

pull1D
Entries 87
Mean 0.006479
Std Dev 0.977

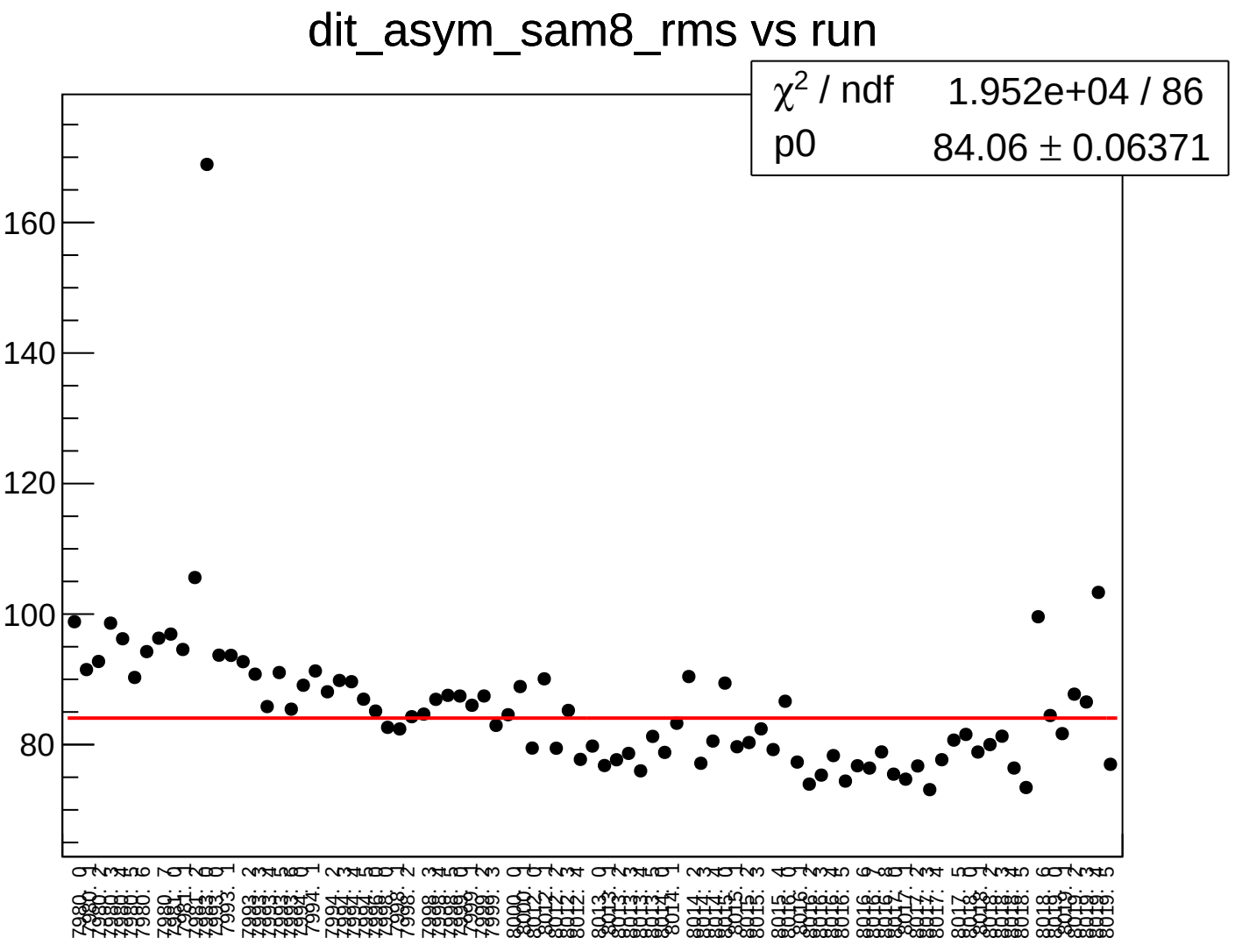

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 7993 / 86
p0 71.88 ± 0.05429
95
90
85
80
75
70
65

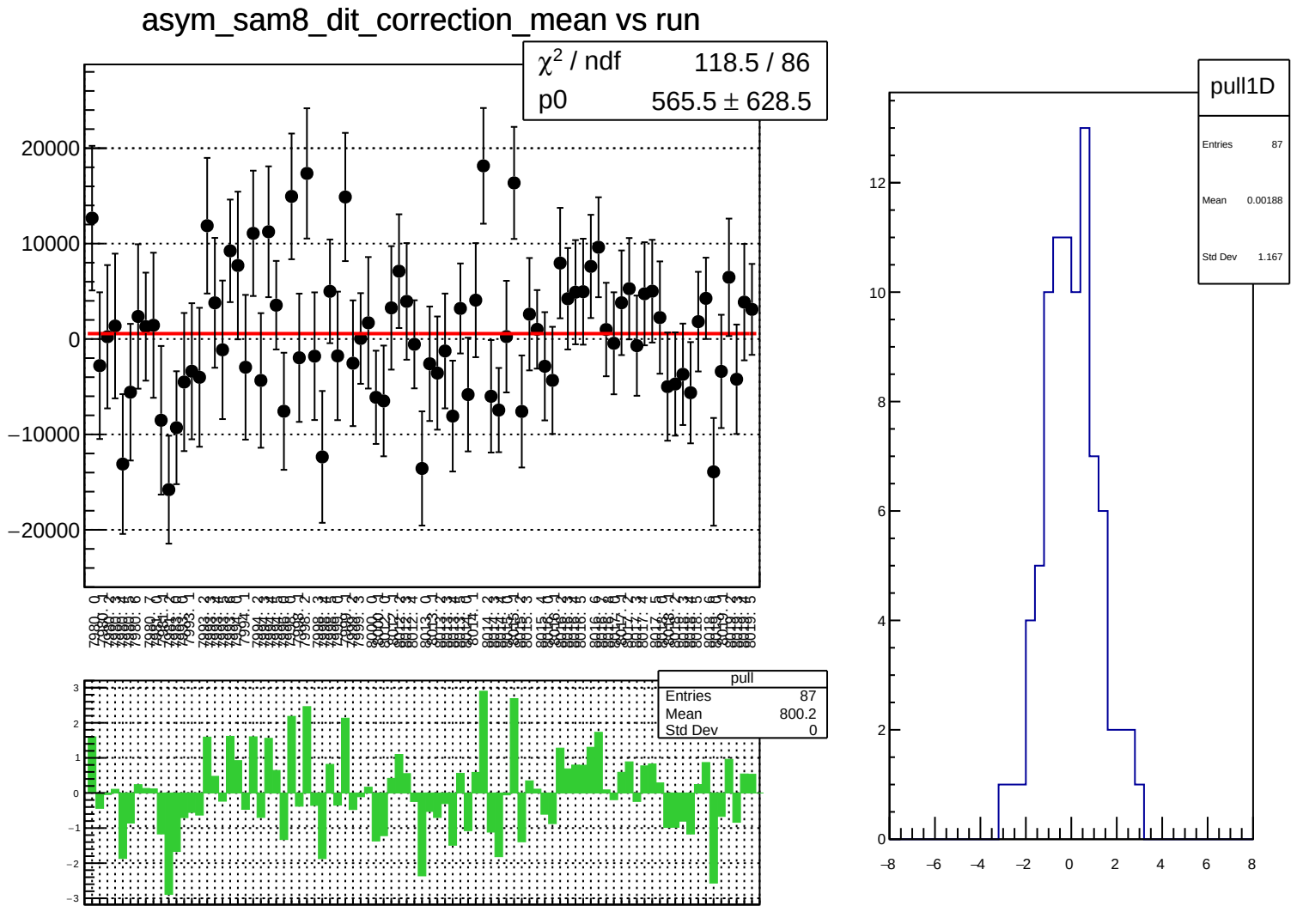

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 117.5 / 86
p0 530.1 ± 608.9
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 164.7
Std Dev 0
pull1D
Entries 87
Mean 0.01169
Std Dev 1.162
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

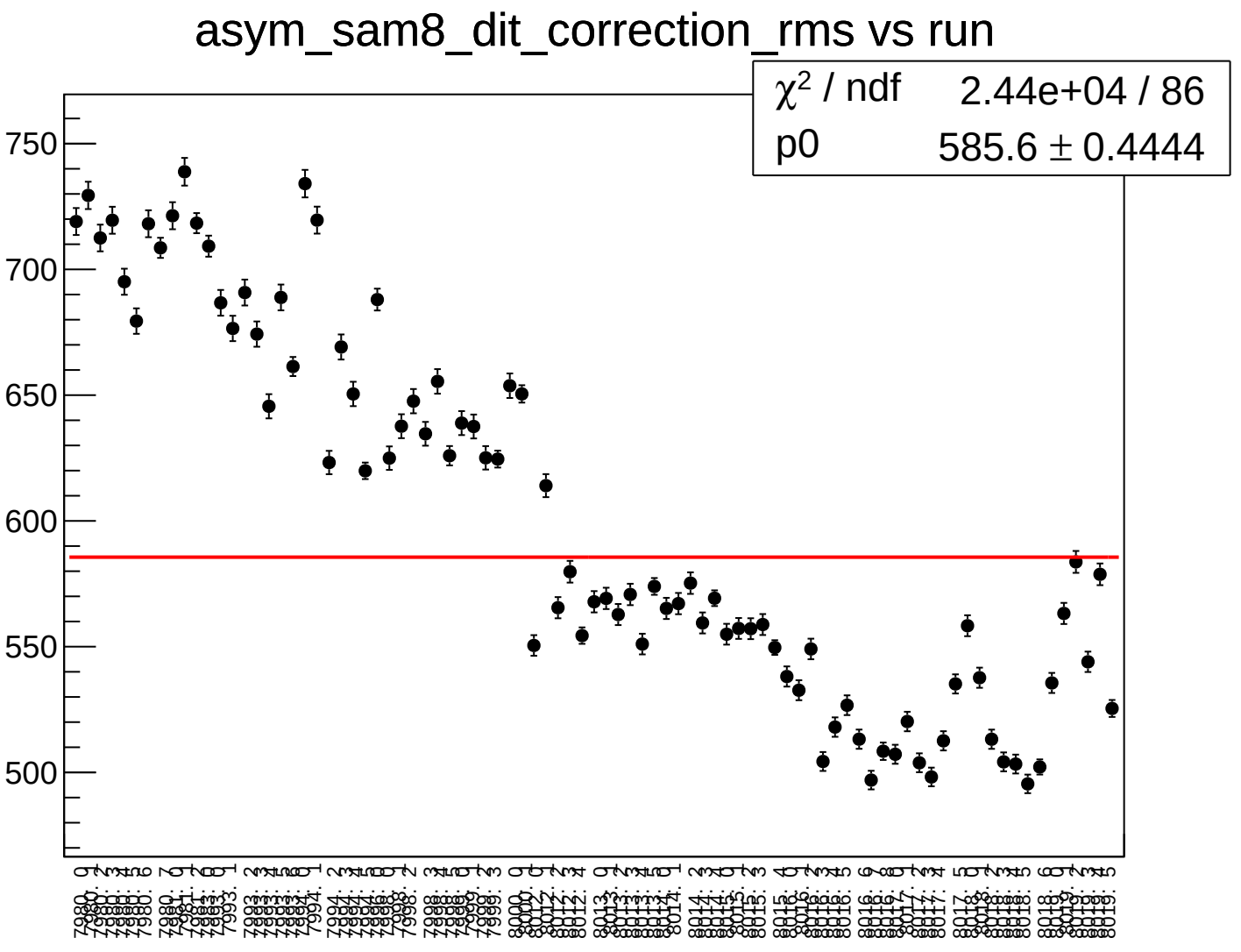

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 3.241e+04 / 86
p0 566 ± 0.4305
800
750
700
650
600
550
500
450

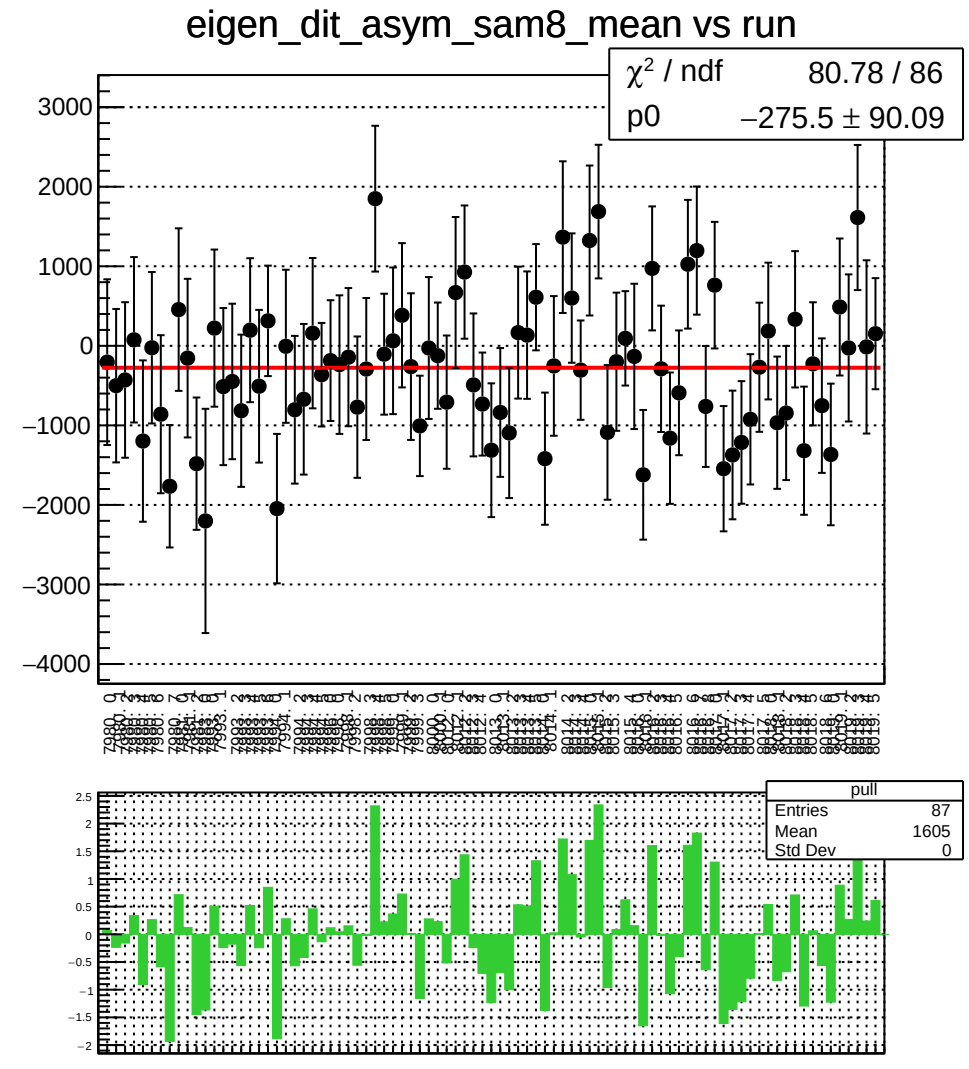

dit_asym_sam8_mean vs run
χ² / ndf 80.78 / 86
p0 −275.5 ± 90.09
pull
Entries 87
Mean 1606
Std Dev 0

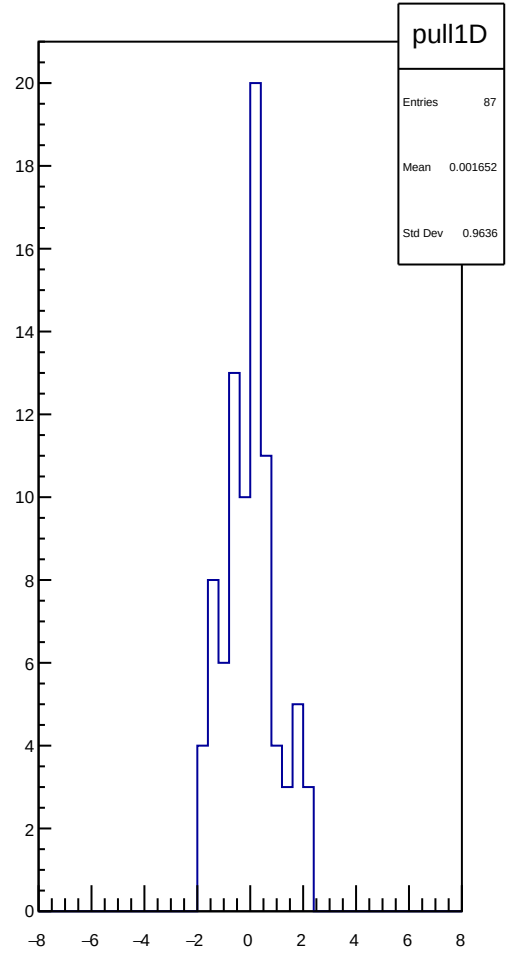

pull1D
Entries 87
Mean 0.001651
Std Dev 0.9636

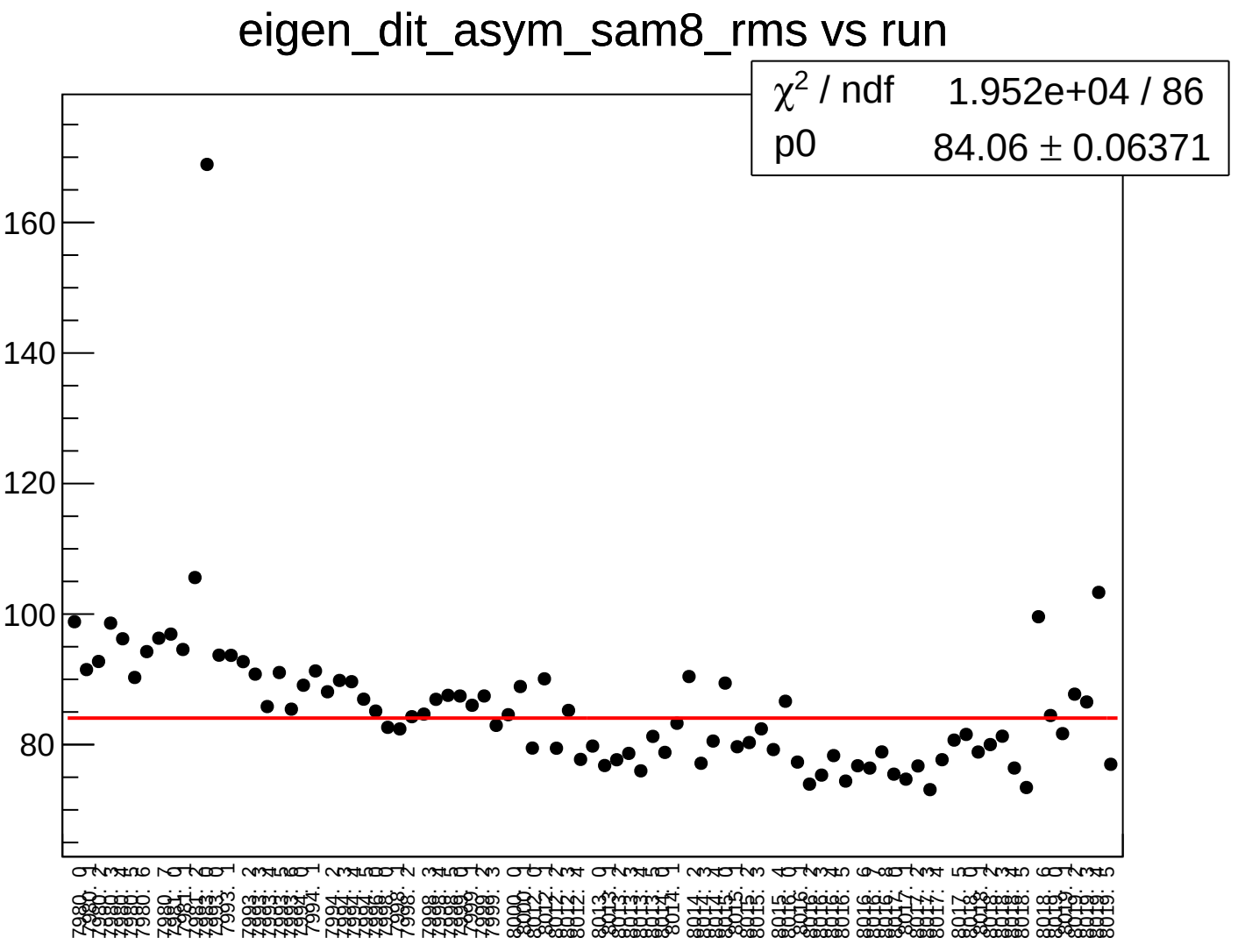

dit_asym_sam8_rms vs run
χ² / ndf 1.952e+04 / 86
p0 84.06 ± 0.06371
160
140
120
100
80

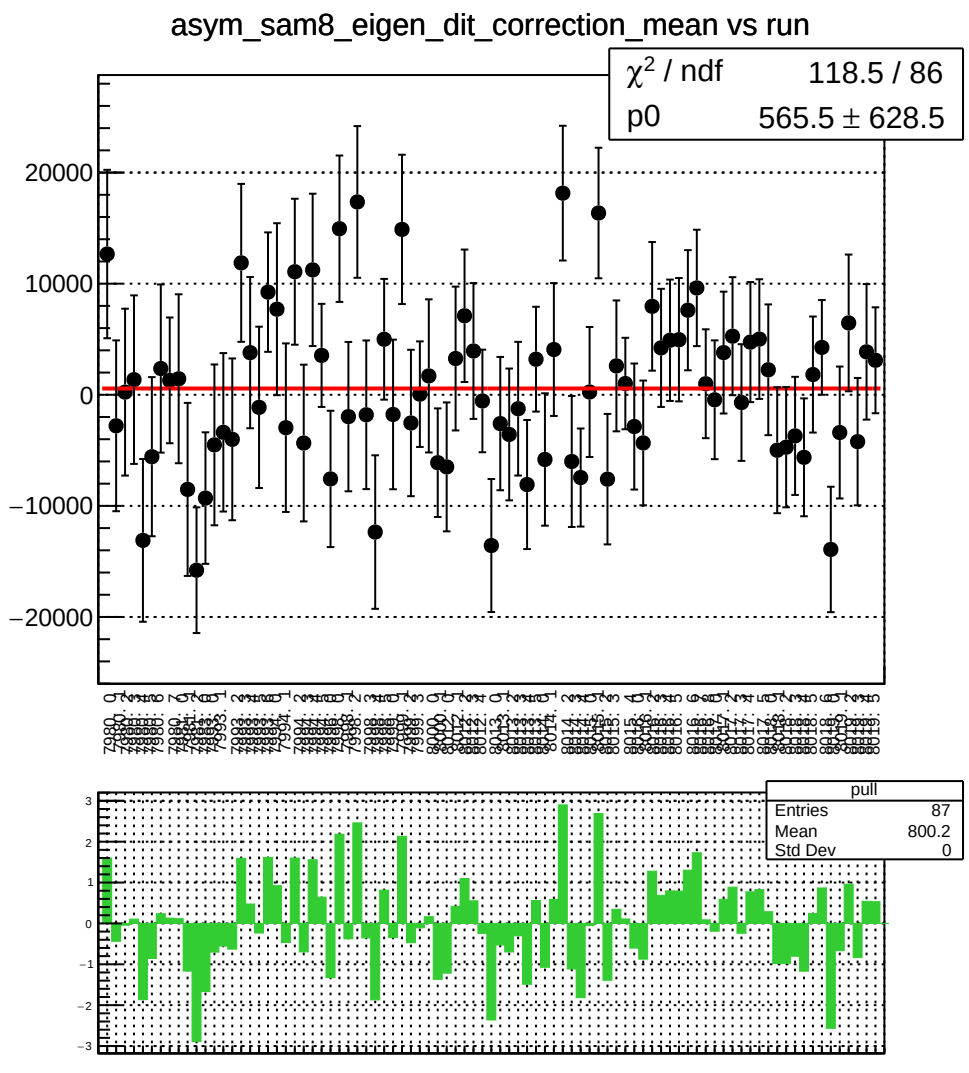

asym_sam8_dit_correction_mean vs run
χ² / ndf 118.5 / 86
p0 565.5 ± 628.5
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 800.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.00188
Std Dev 1.167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

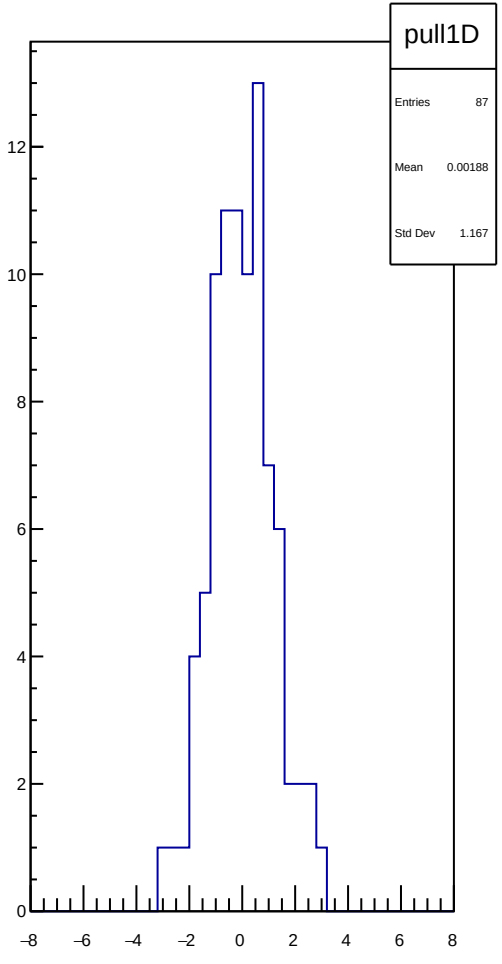

asym_sam8_dit_correction_rms vs run
χ² / ndf 2.44e+04 / 86
p0 585.6 ± 0.4444
750
700
650
600
550
500

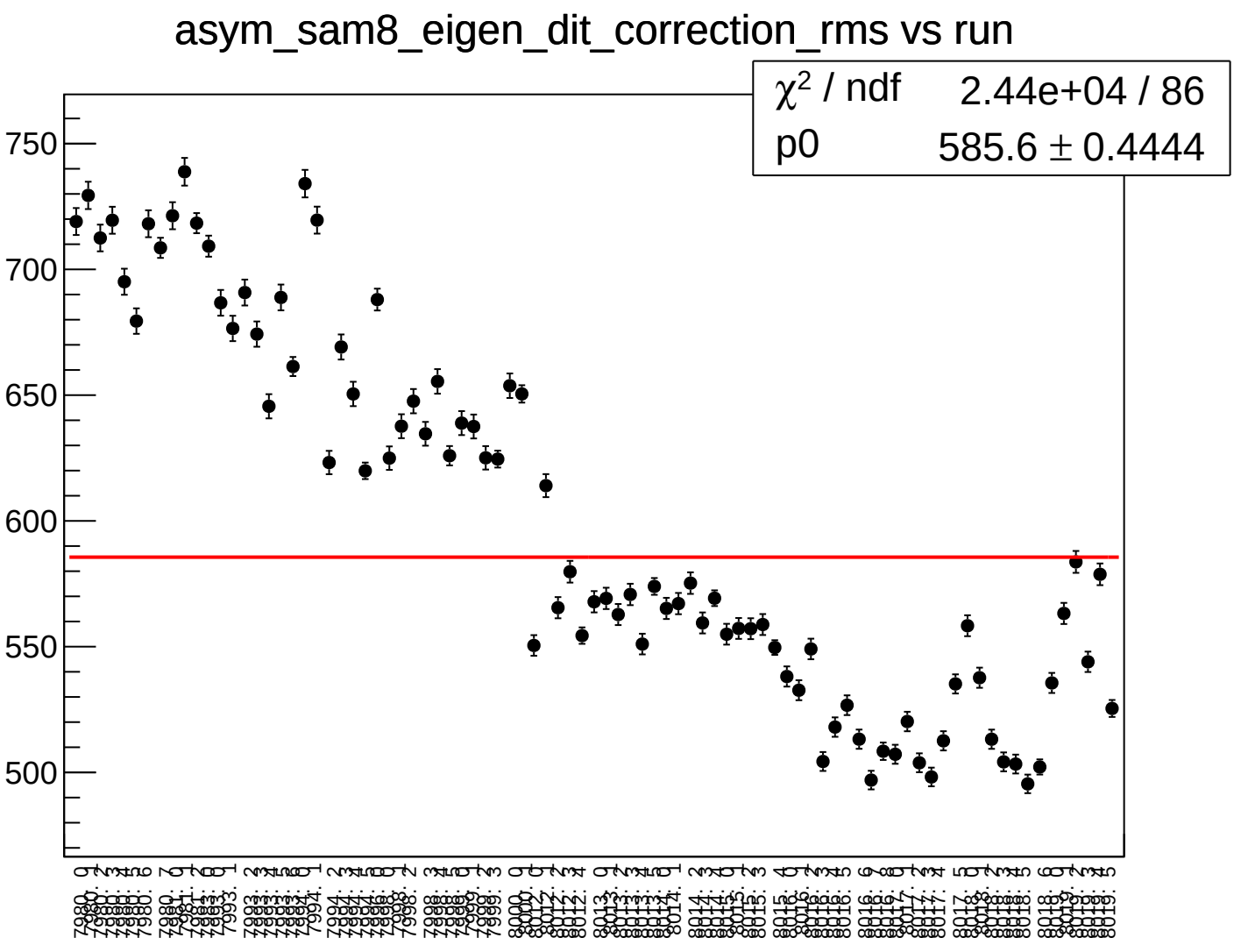

eigen_dit_asym_sam8_mean vs run
χ² / ndf 80.78 / 86
p0 −275.5 ± 90.09
pull
Entries 87
Mean 1605
Std Dev 0

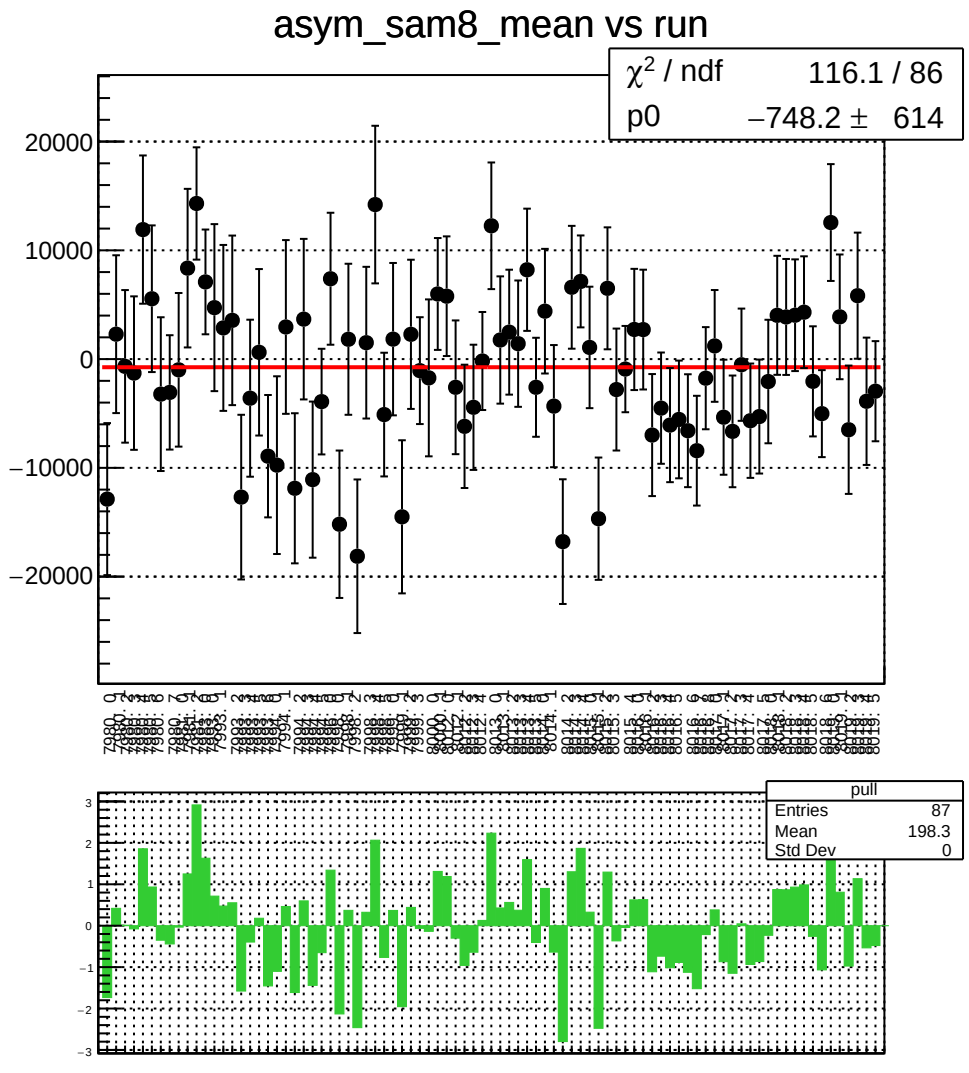

pull1D
Entries 87
Mean 0.001652
Std Dev 0.9636

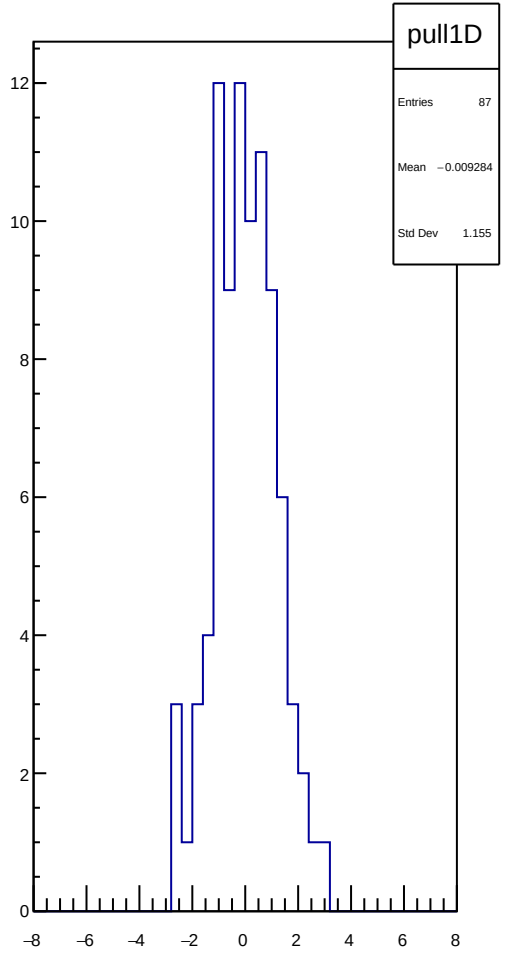

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 1.952e+04 / 86
p0 84.06 ± 0.06371
160
140
120
100
80

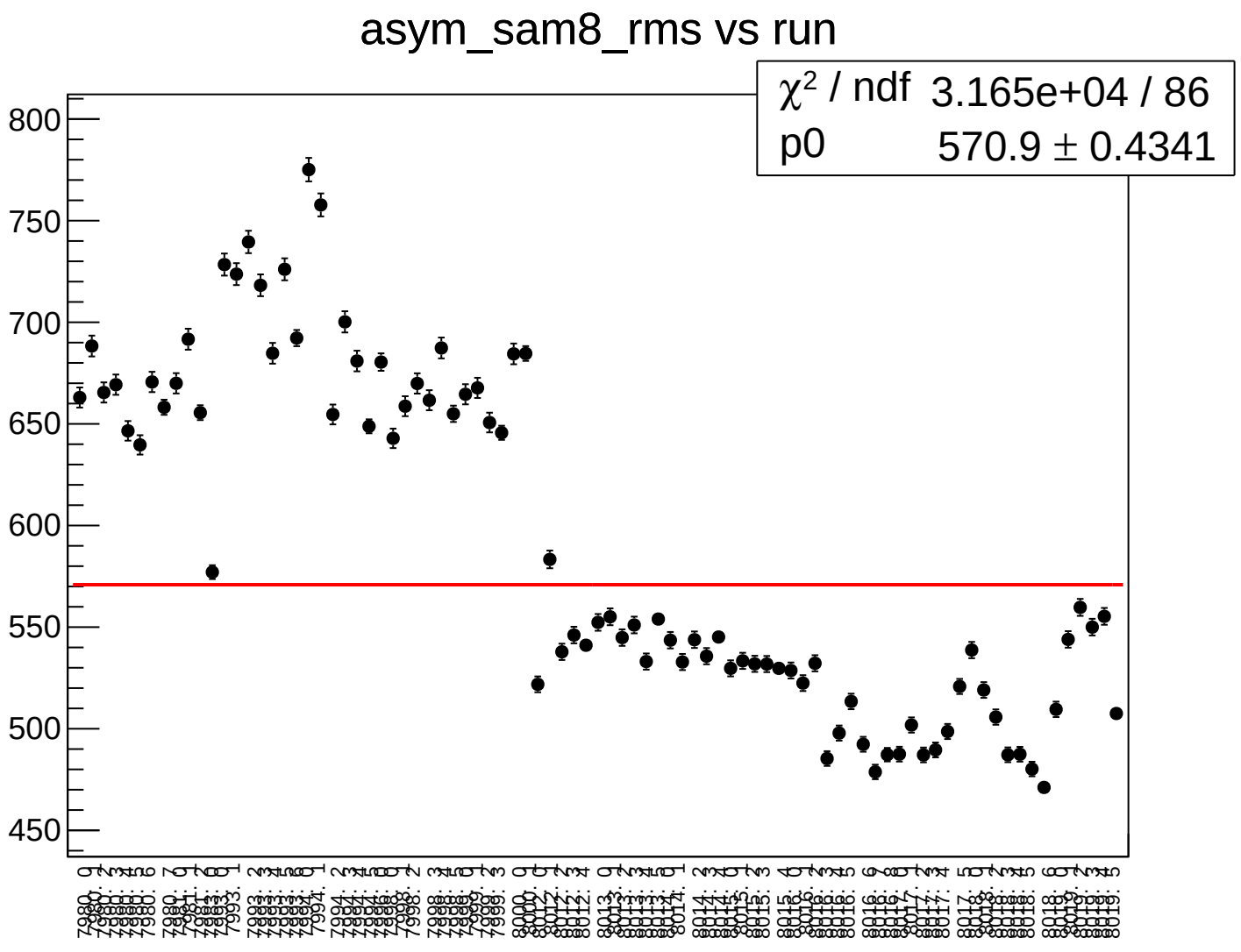

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 118.5 / 86
p0 565.5 ± 628.5
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 800.2
Std Dev 0
3
2
1
0
−1
−2
−3

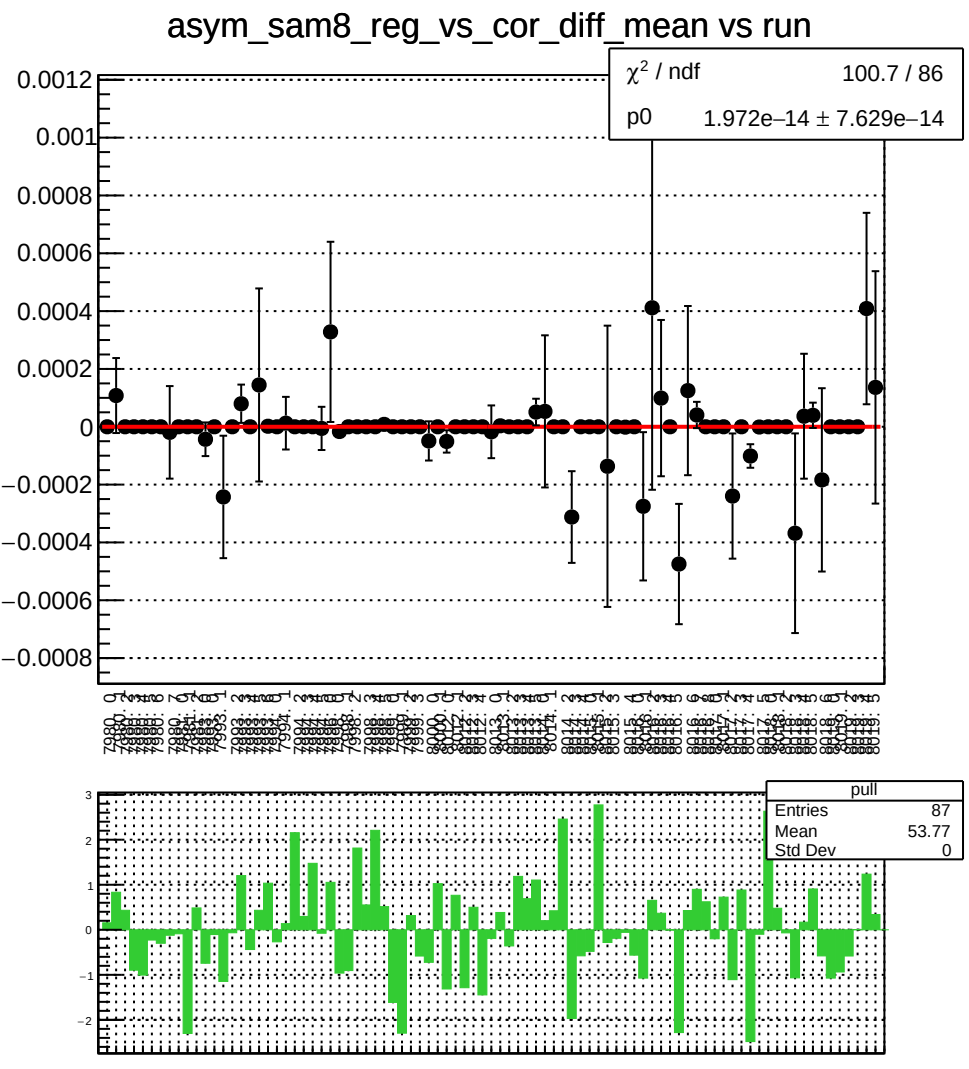

pull1D
Entries 87
Mean 0.00188
Std Dev 1.167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

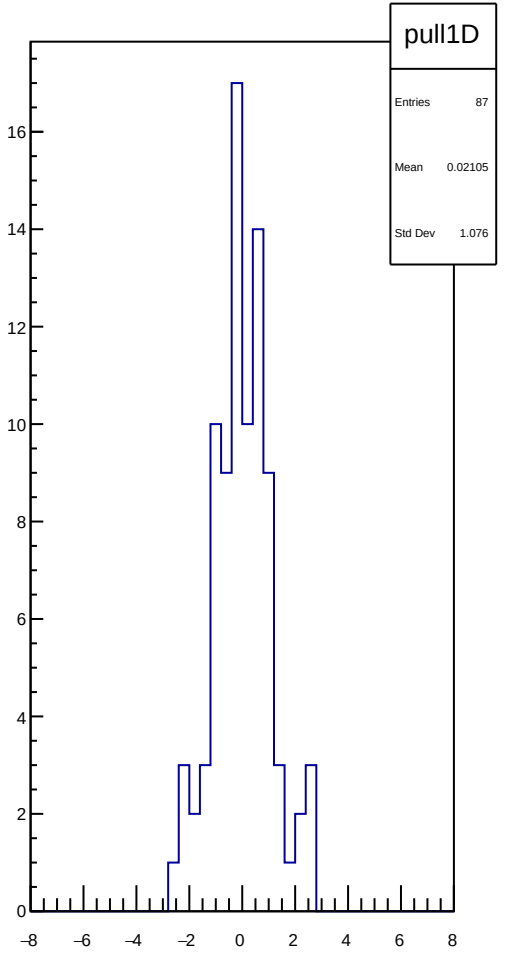

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 2.44e+04 / 86
p0 585.6 ± 0.4444
750
700
650
600
550
500

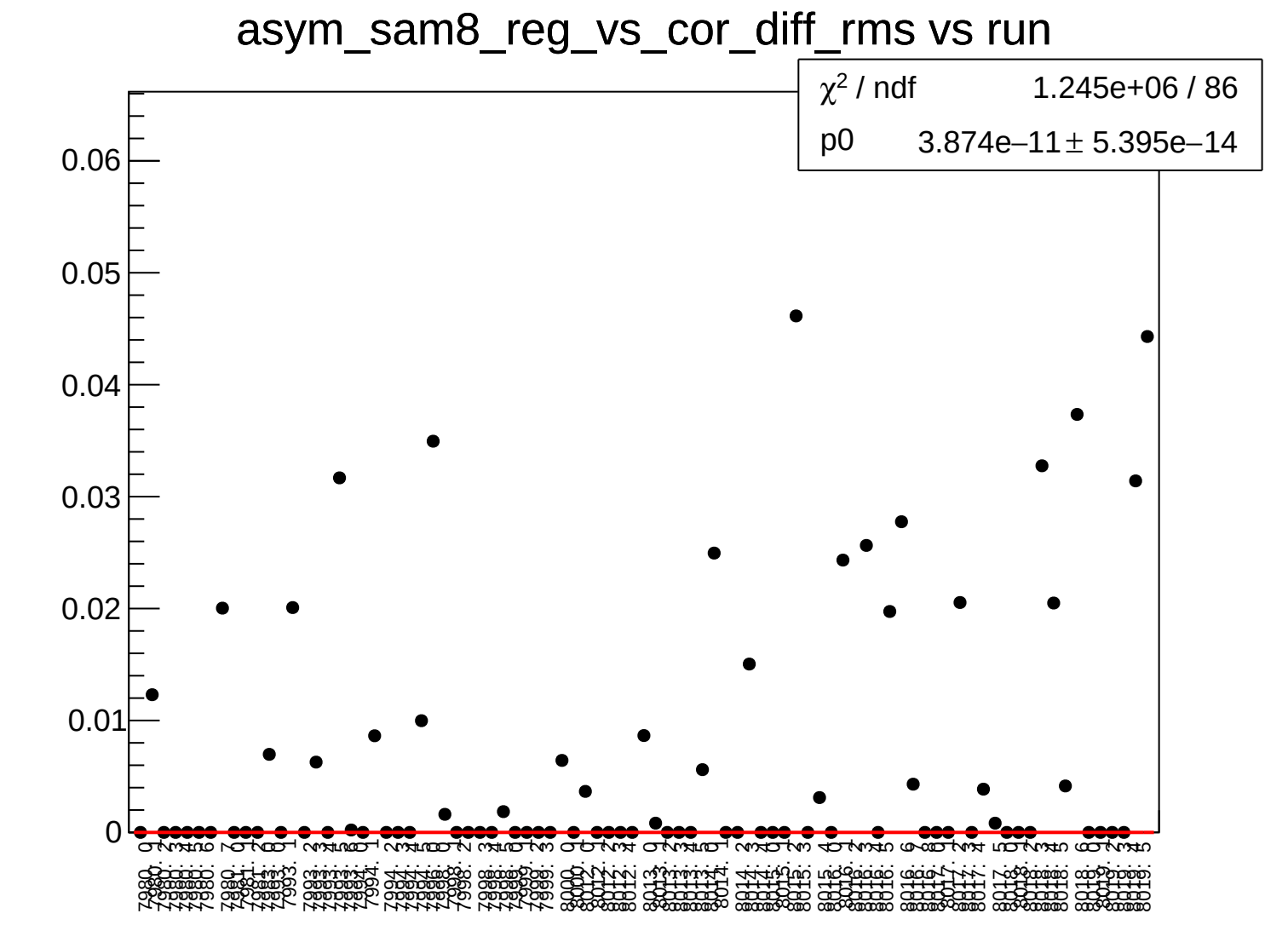

asym_sam8_mean vs run
χ² / ndf 116.1 / 86
p0 −748.2 ± 614
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 198.3
Std Dev 0
3
2
1
0
−1
−2
−3

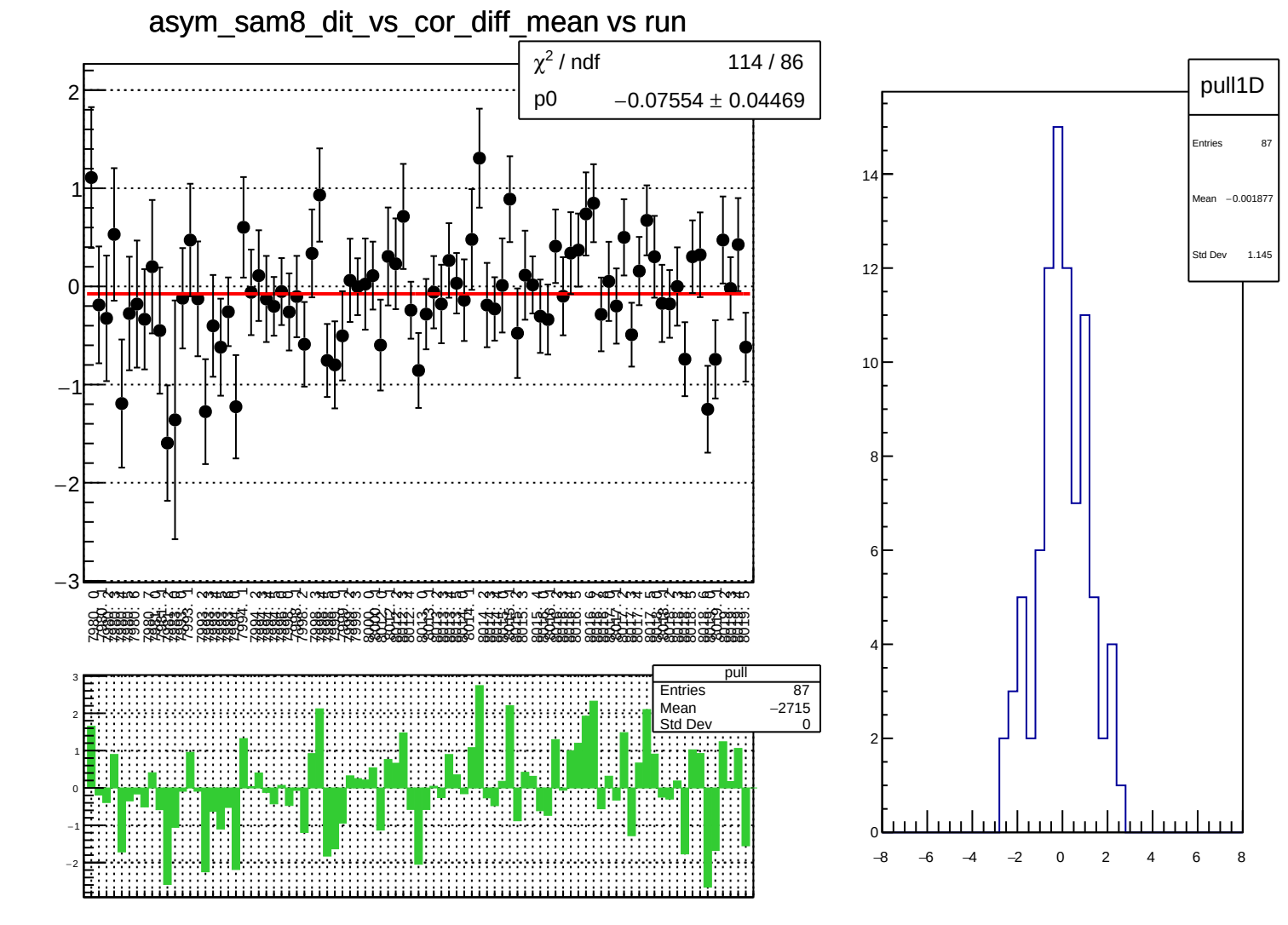

pull1D
Entries 87
Mean −0.009284
Std Dev 1.155
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

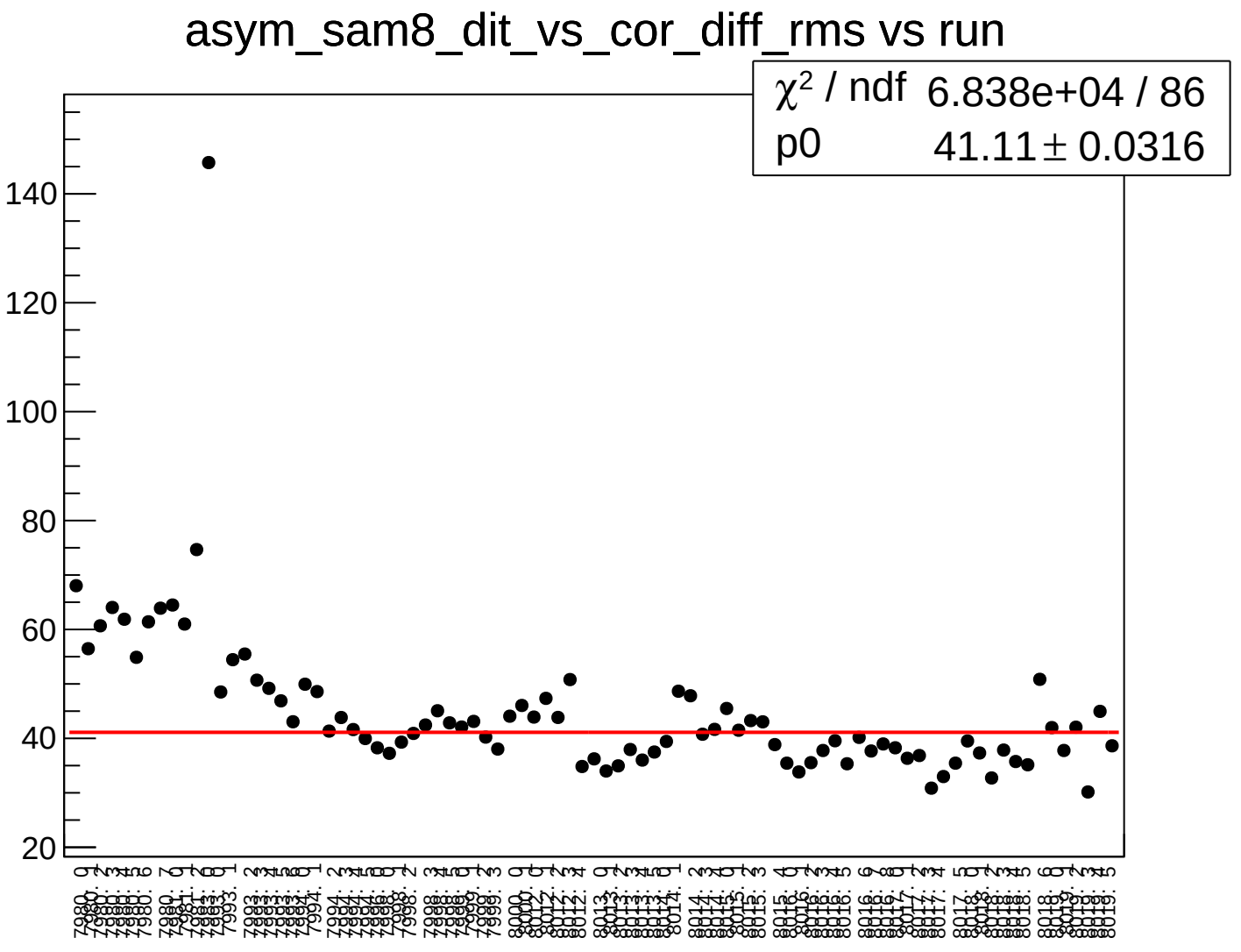

asym_sam8_rms vs run
χ² / ndf 3.165e+04 / 86
p0 570.9 ± 0.4341
800
750
700
650
600
550
500
450

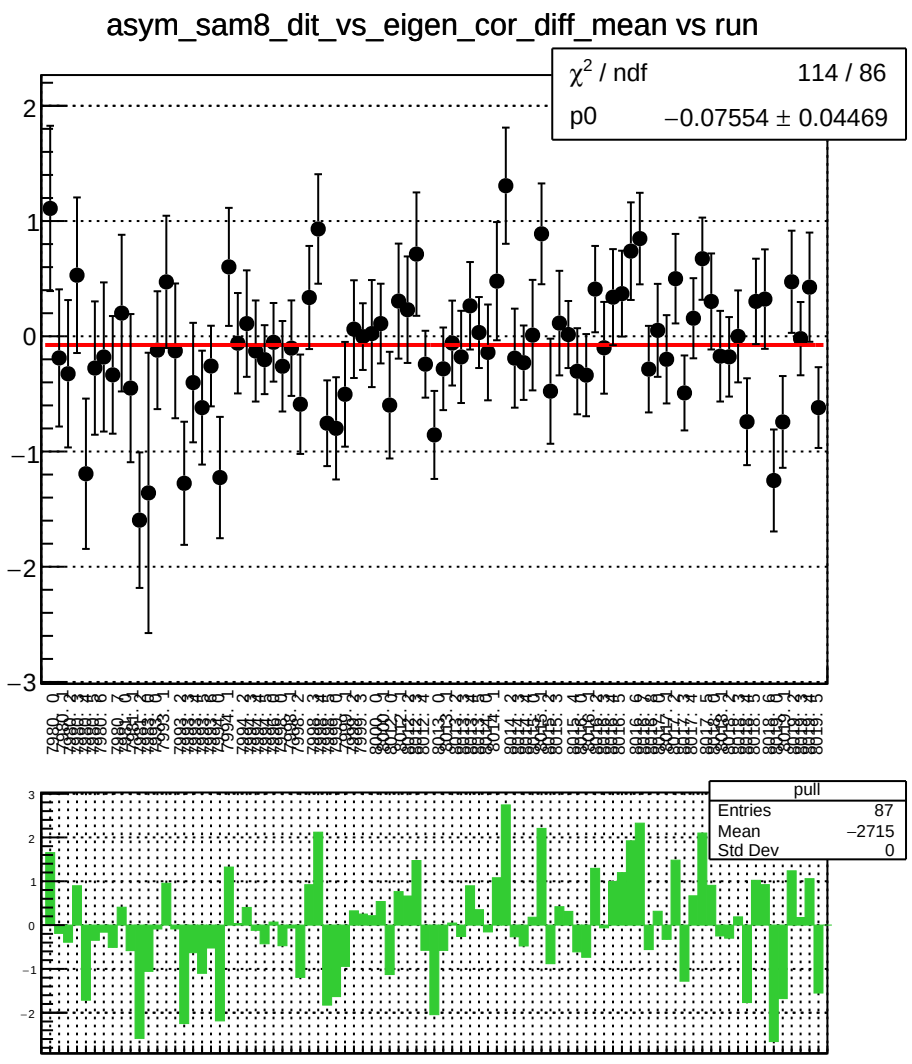

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 86
p0 1.972e−14 ± 7.629e−14
pull
Entries 87
Mean 53.77
Std Dev 0

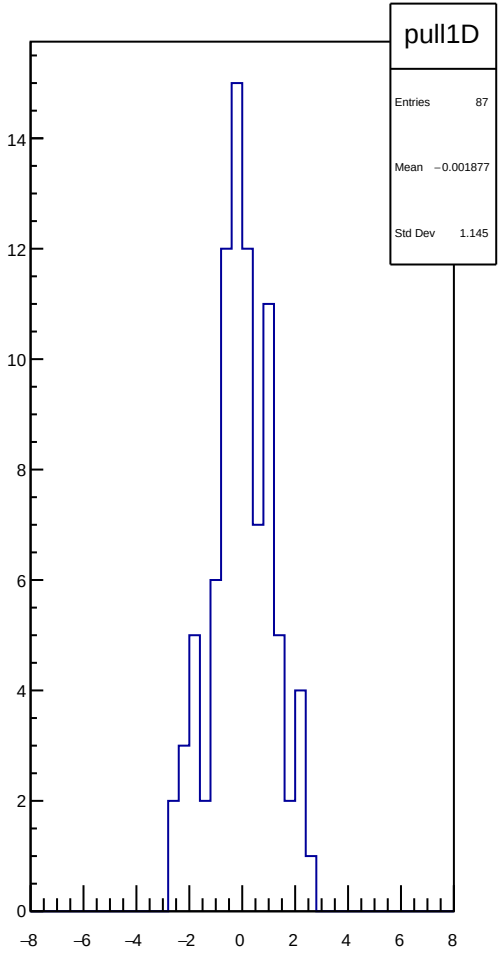

pull1D
Entries 87
Mean 0.02105
Std Dev 1.076

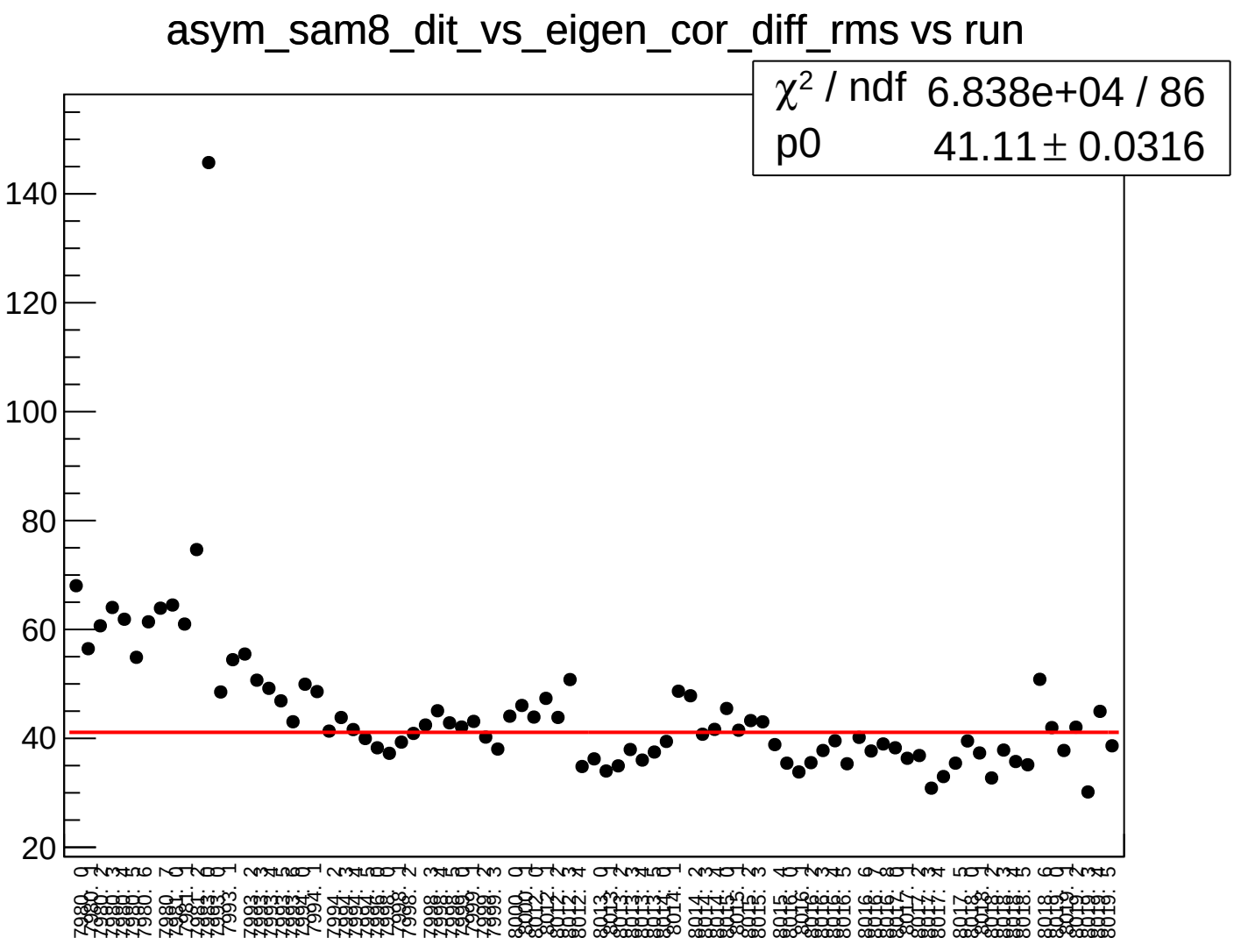

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.245e+06 / 86
p0 3.874e−11 ± 5.395e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

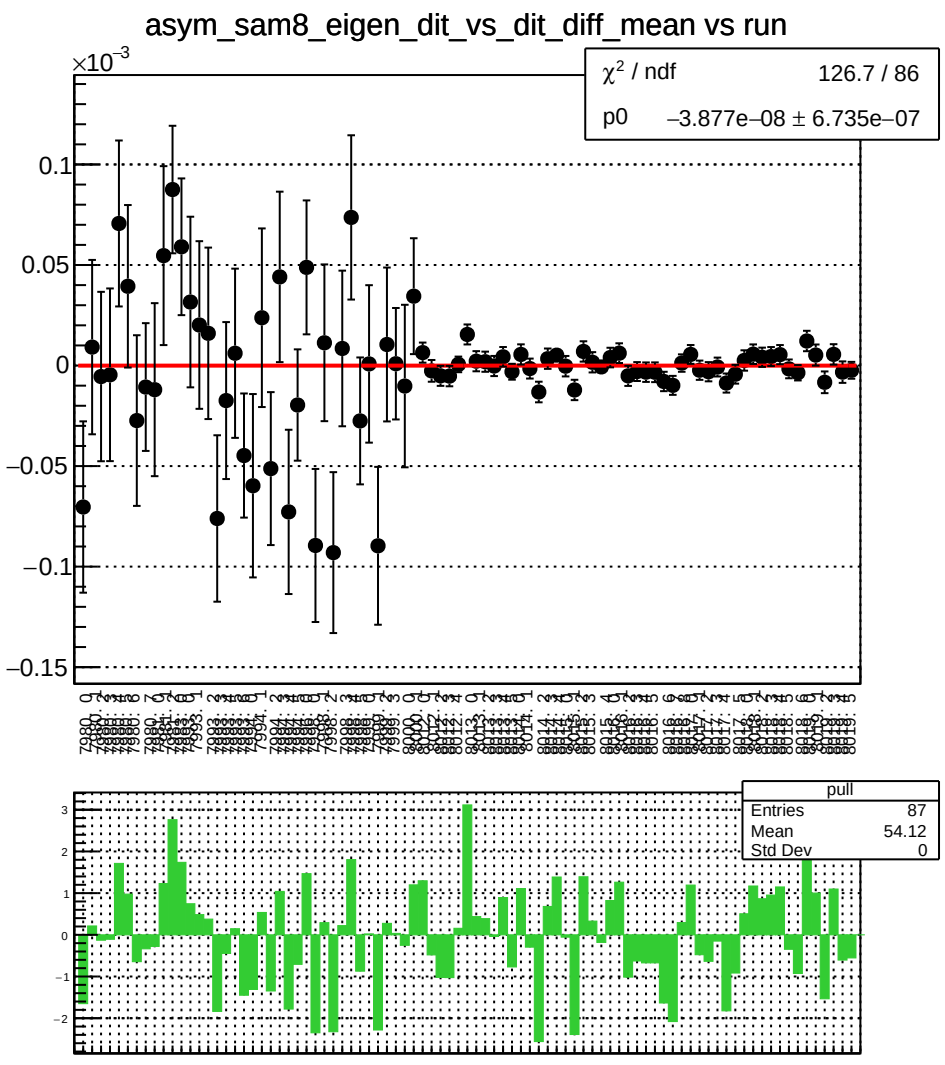

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 114 / 86
p0 −0.07554 ± 0.04469
pull
Entries 87
Mean −2715
Std Dev 0
pull1D
Entries 87
Mean −0.001877
Std Dev 1.145

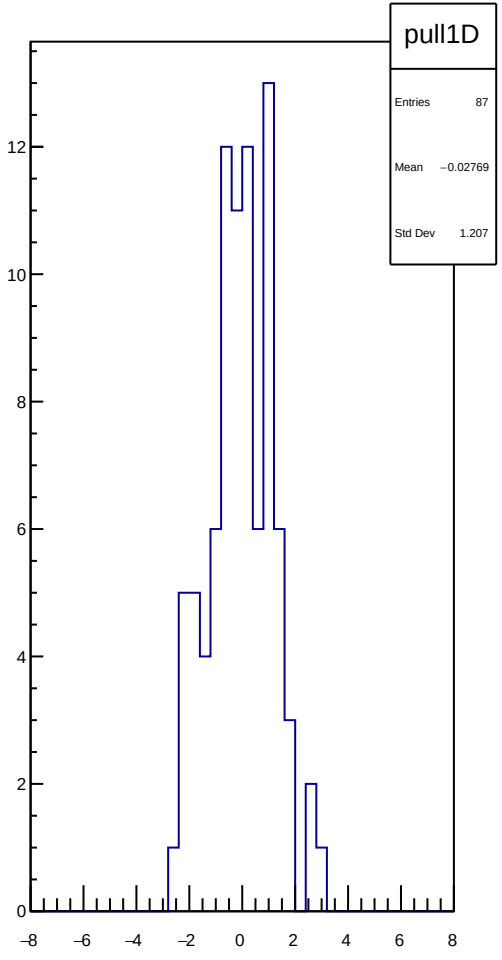

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 6.838e+04 / 86
p0 41.11 ± 0.0316
140
120
100
80
60
40
20

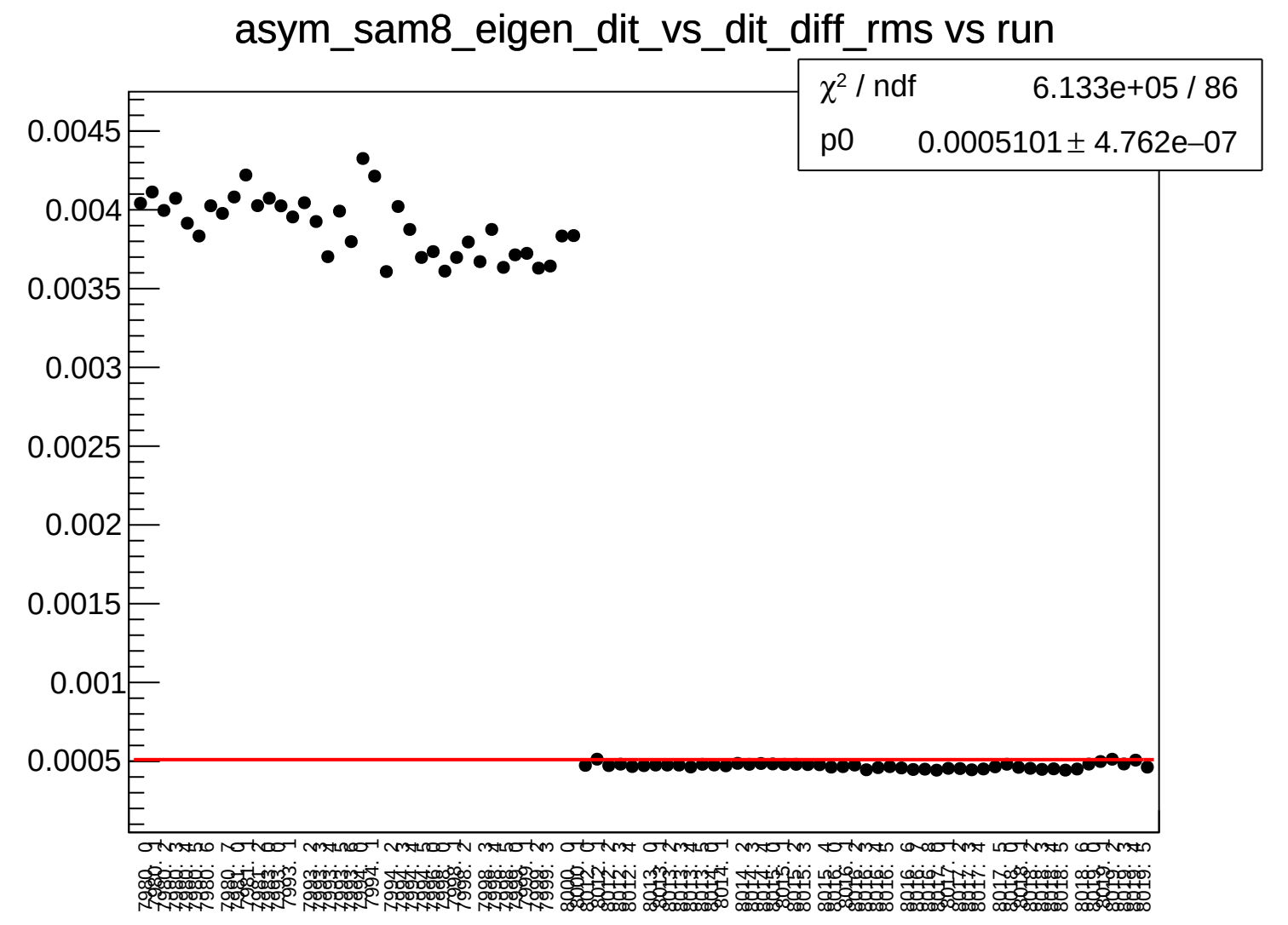

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114 / 86
p0 −0.07554 ± 0.04469
pull
Entries 87
Mean −2715
Std Dev 0

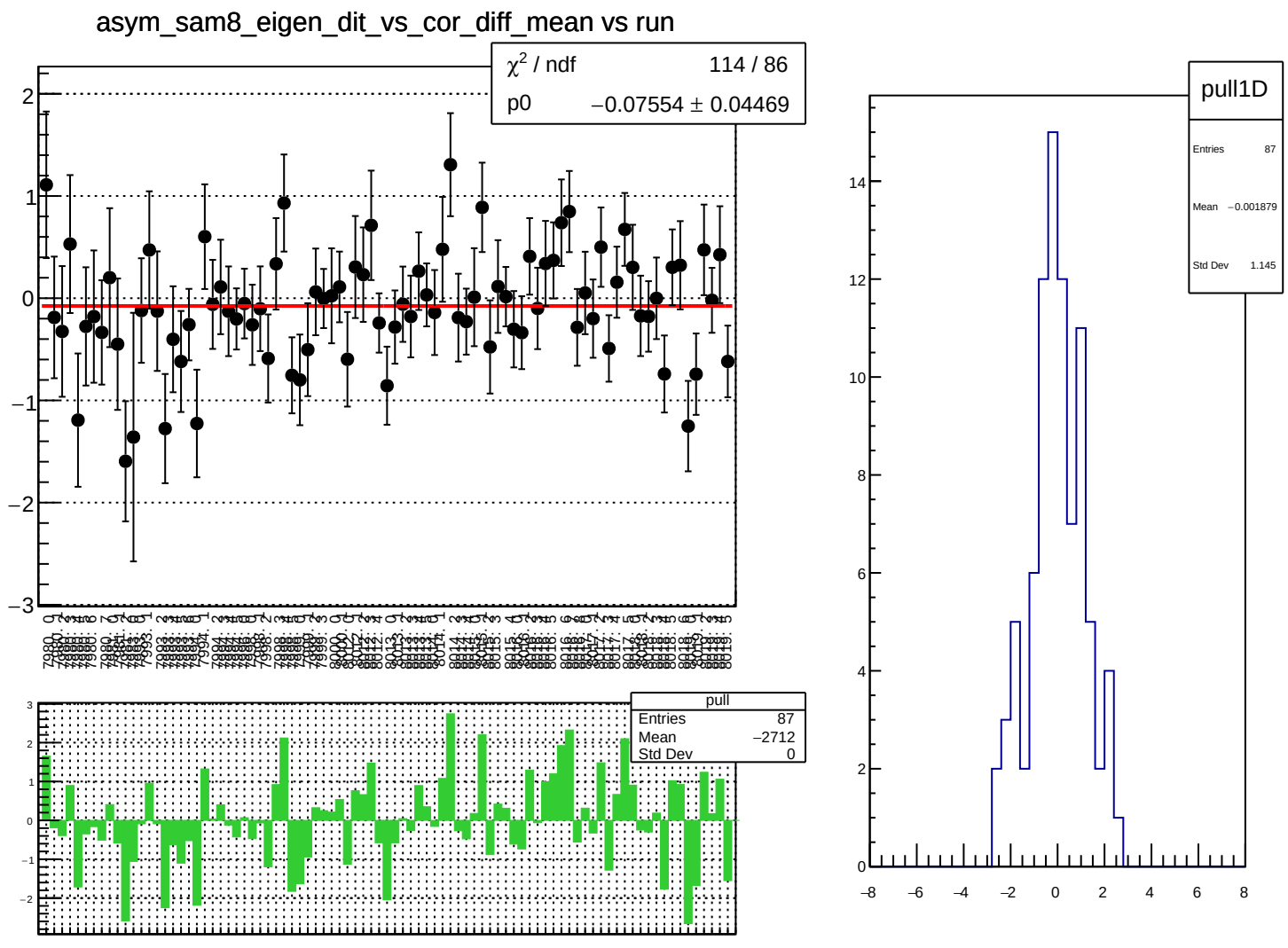

pull1D
Entries 87
Mean −0.001877
Std Dev 1.145

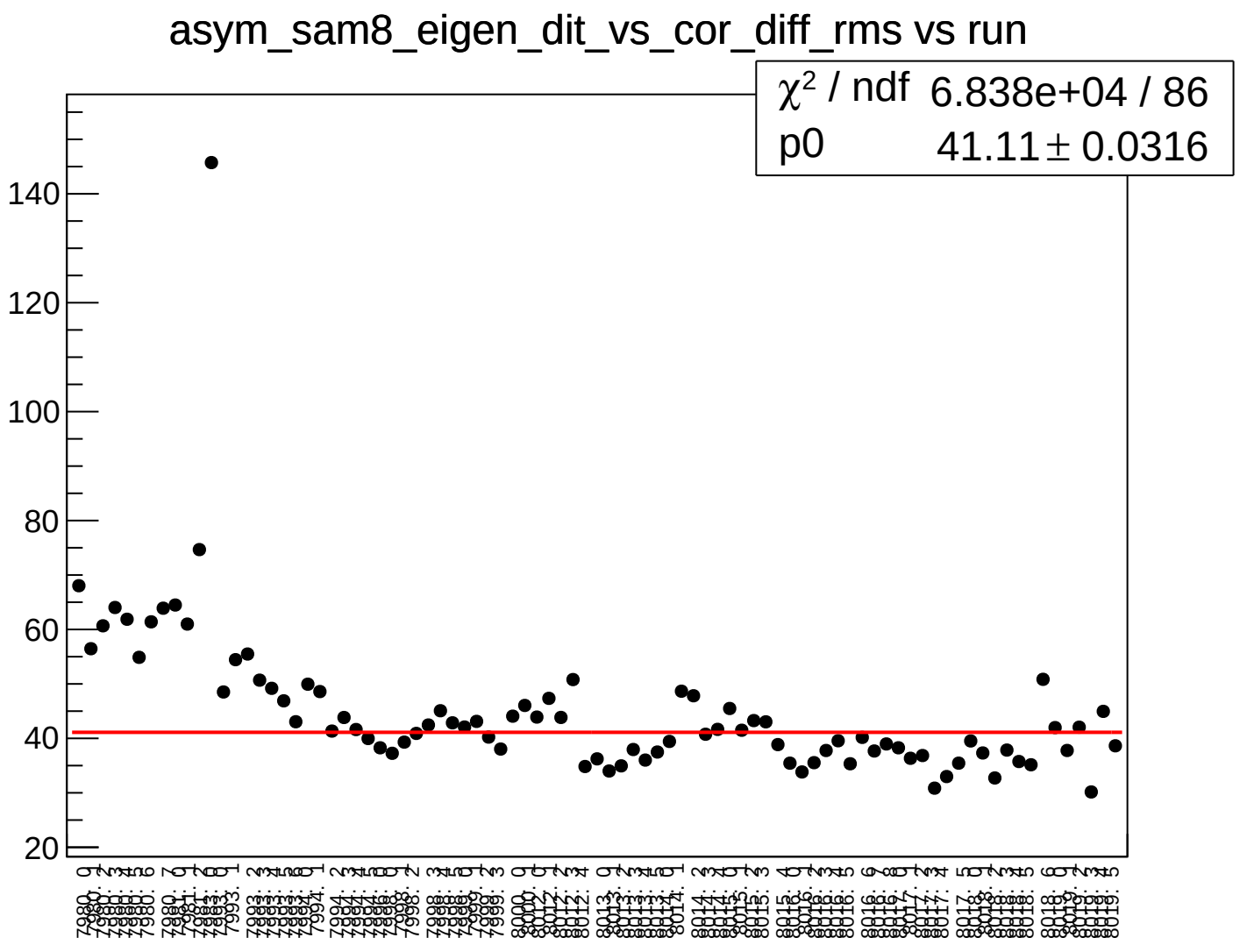

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.838e+04 / 86
p0 41.11 ± 0.0316
140
120
100
80
60
40
20

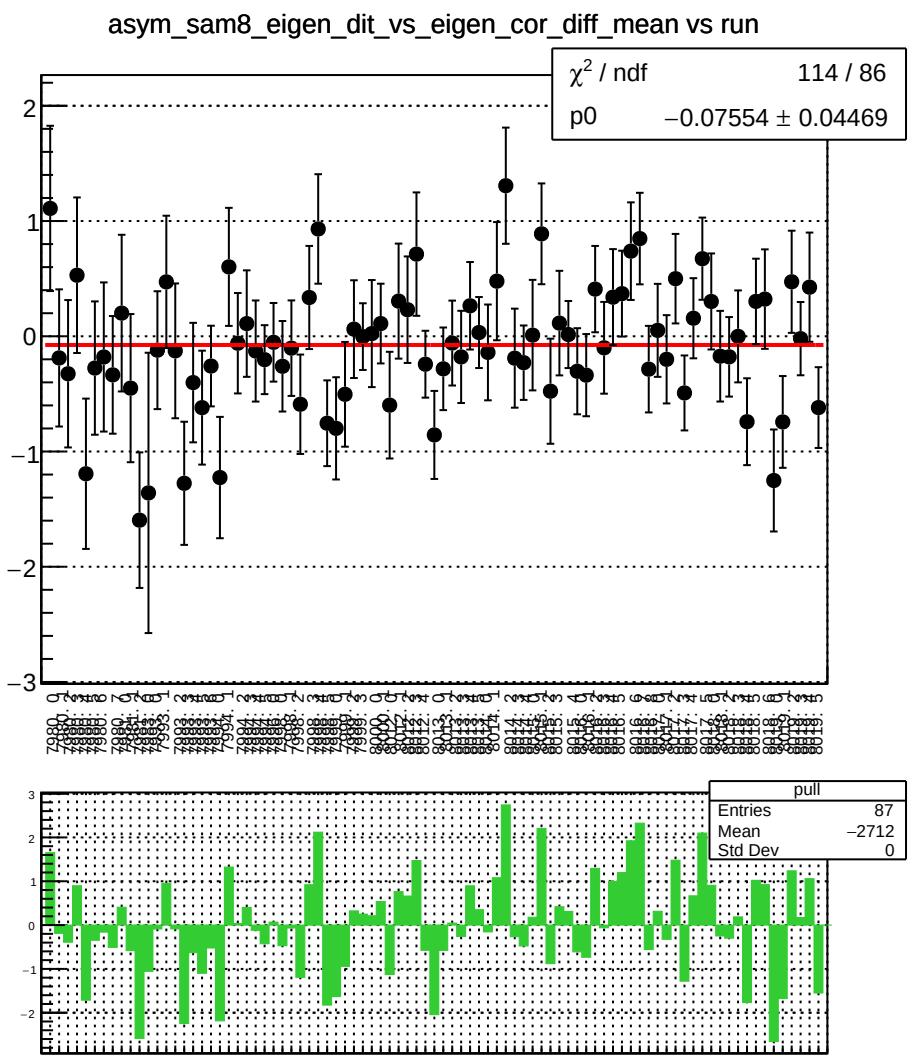

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 126.7 / 86
p0 −3.877e−08 ± 6.735e−07
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean 54.12
Std Dev 0
3
2
1
0
−1
−2

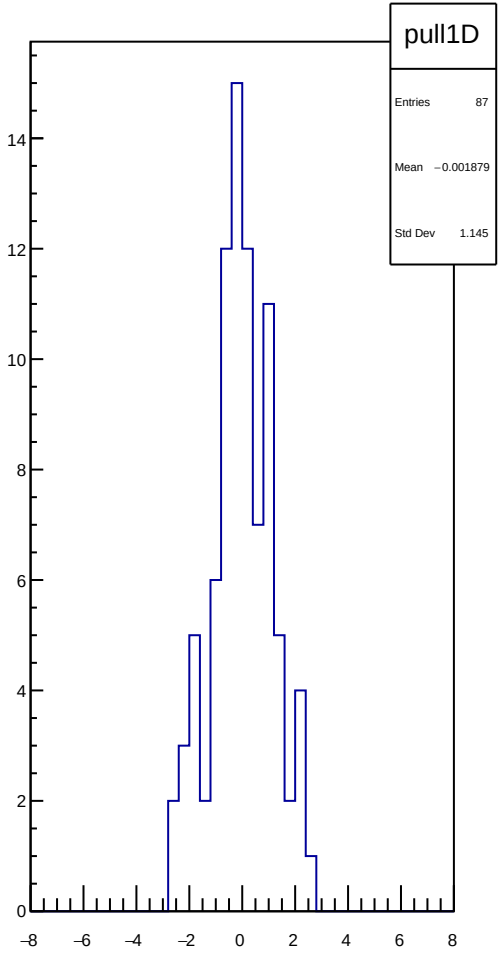

pull1D
Entries 87
Mean −0.02769
Std Dev 1.207
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

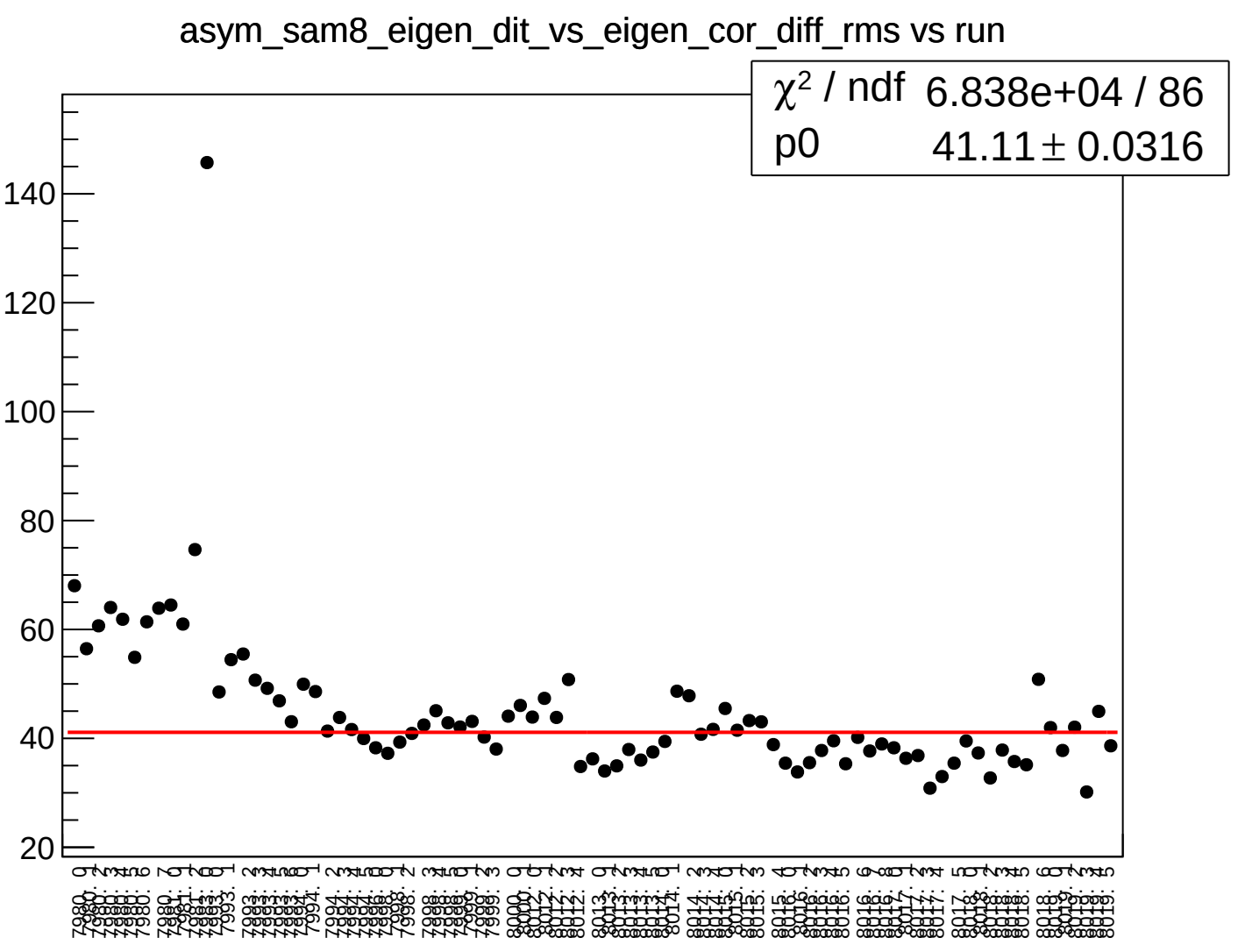

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.133e+05 / 86
p0 0.0005101 ± 4.762e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

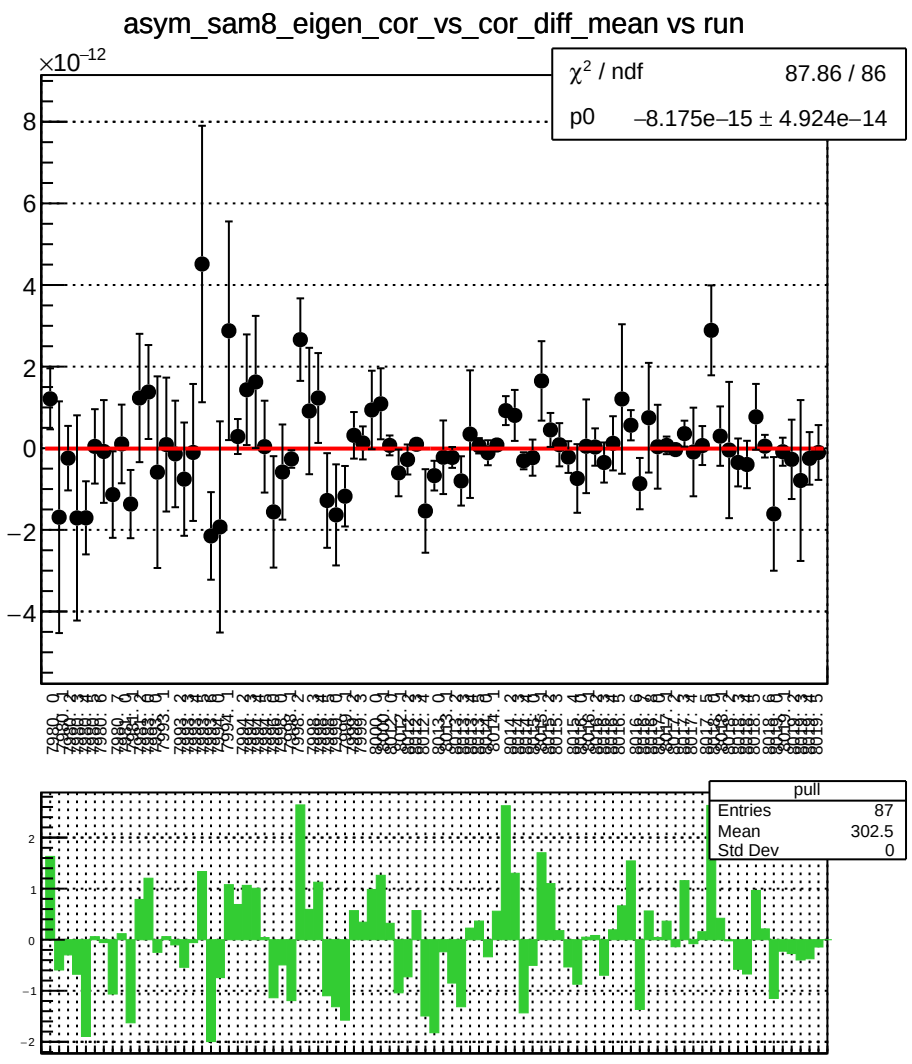

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114 / 86
p0 −0.07554 ± 0.04469
pull
Entries 87
Mean −2712
Std Dev 0
pull1D
Entries 87
Mean −0.001879
Std Dev 1.145

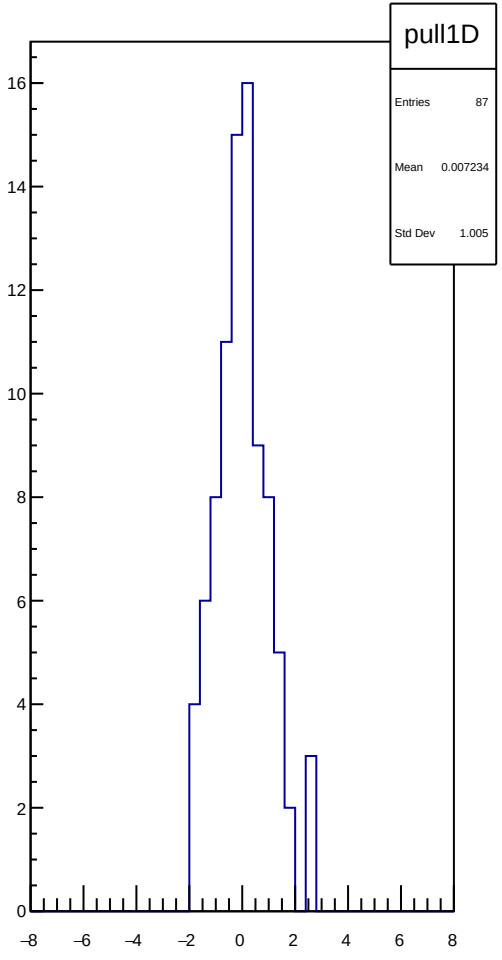

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.838e+04 / 86
p0 41.11 ± 0.0316
140
120
100
80
60
40
20

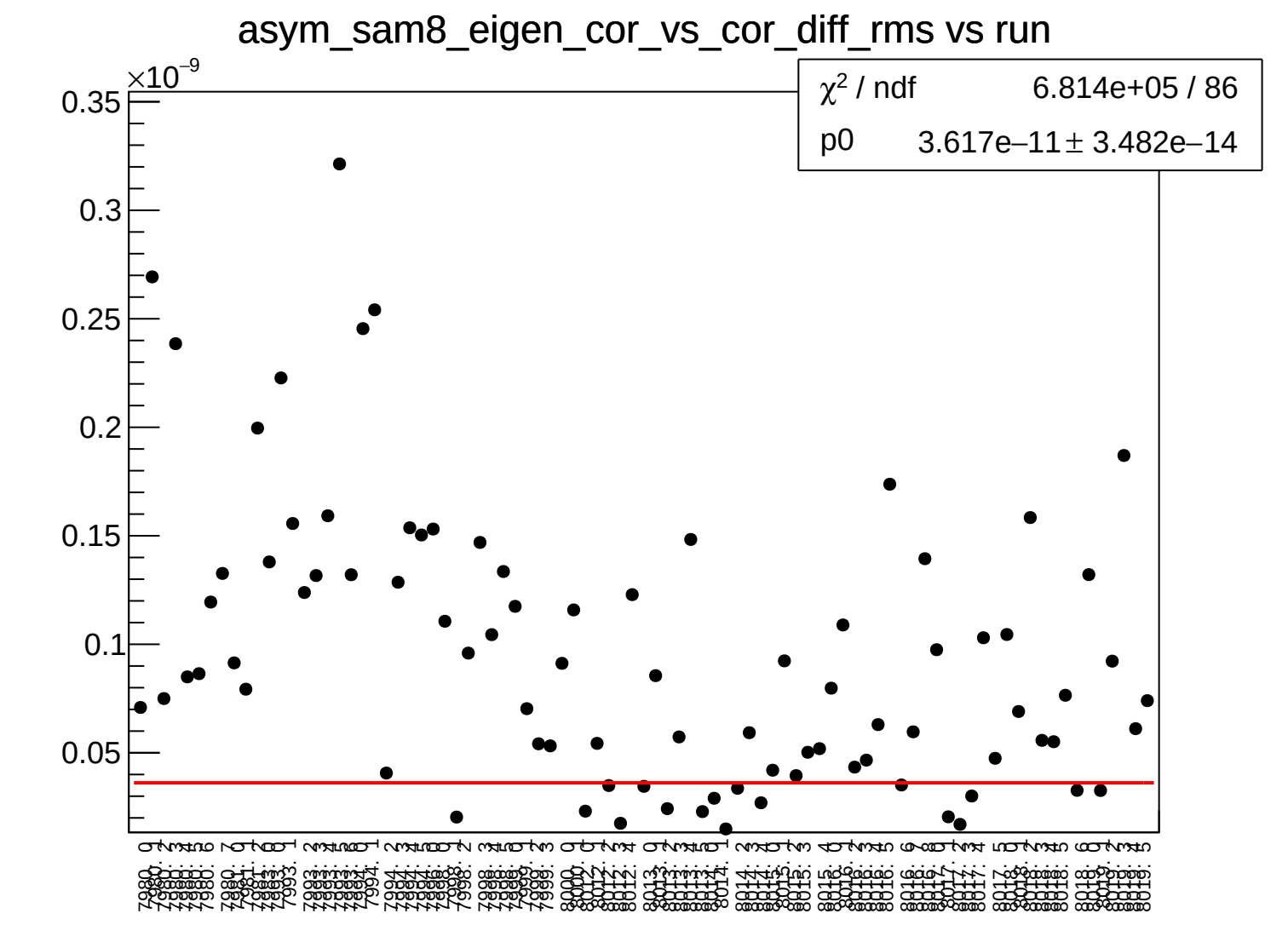

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114 / 86
p0 −0.07554 ± 0.04469
pull
Entries 87
Mean −2712
Std Dev 0

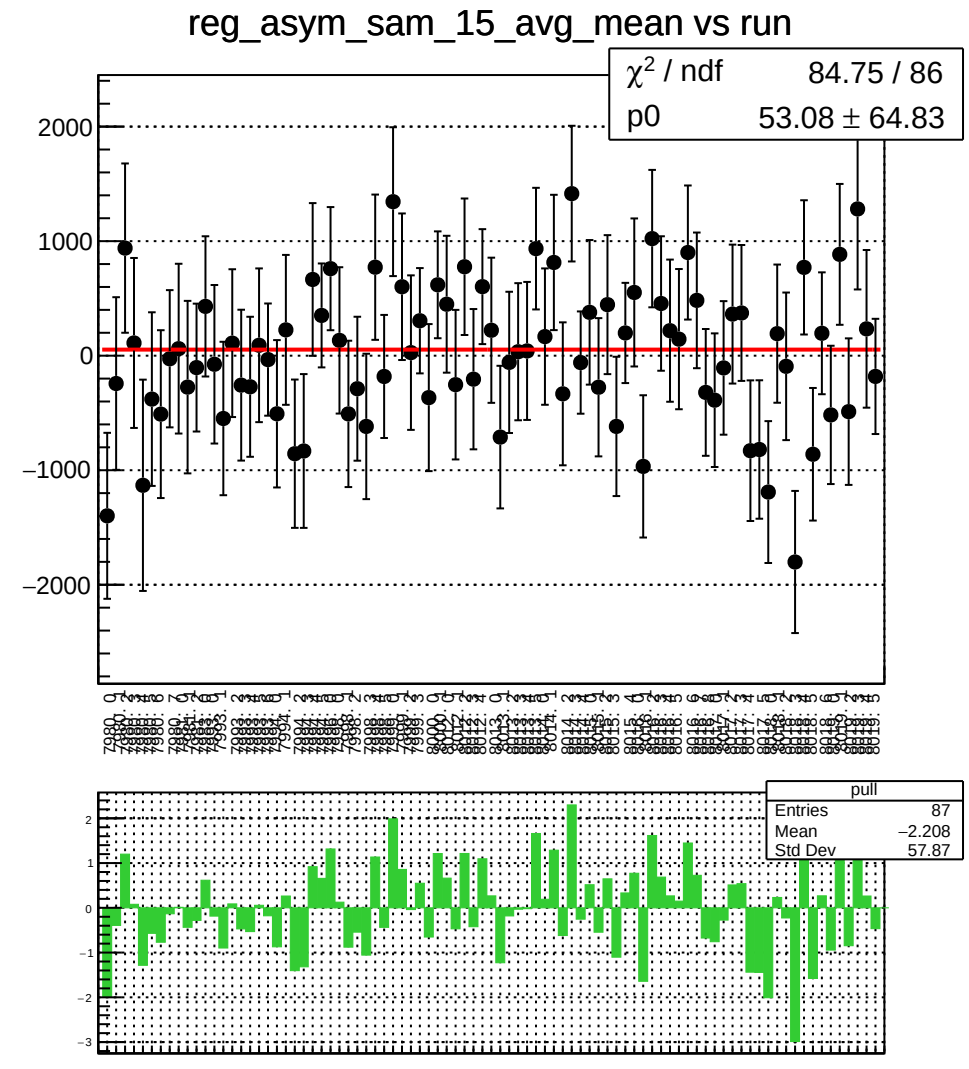

pull1D
Entries 87
Mean −0.001879
Std Dev 1.145

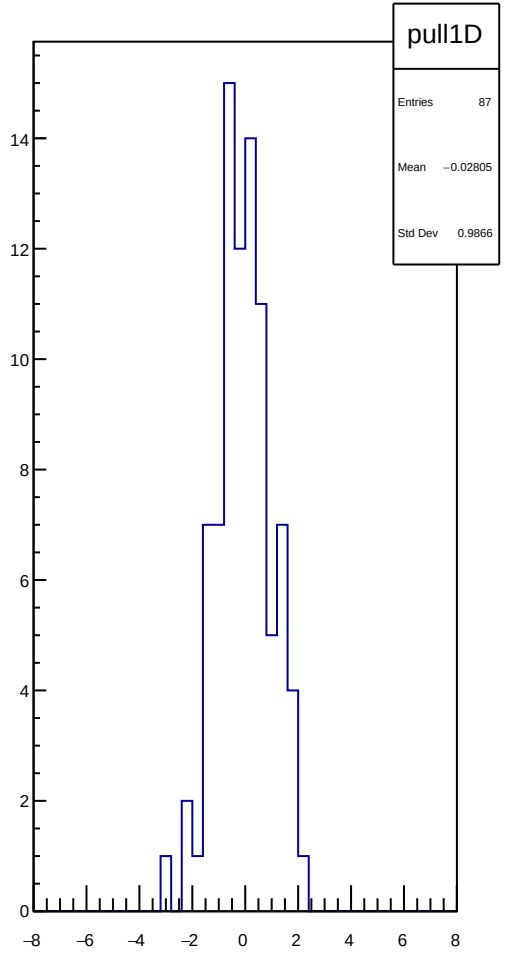

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.838e+04 / 86
p0 41.11 ± 0.0316
140
120
100
80
60
40
20


asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.86 / 86
p0 −8.175e−15 ± 4.924e−14
pull
Entries 87
Mean 302.5
Std Dev 0

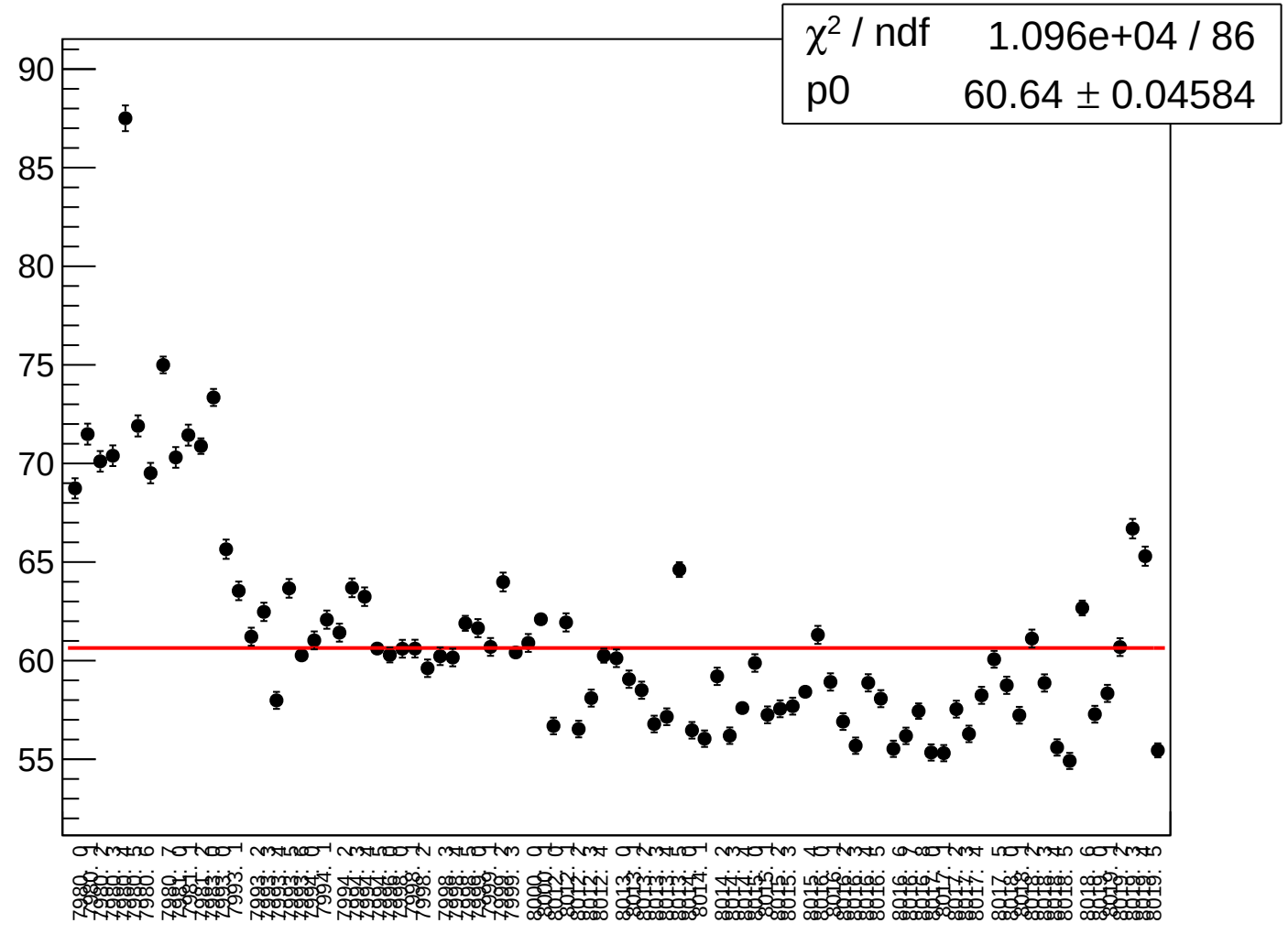

pull1D
Entries 87
Mean 0.007234
Std Dev 1.005

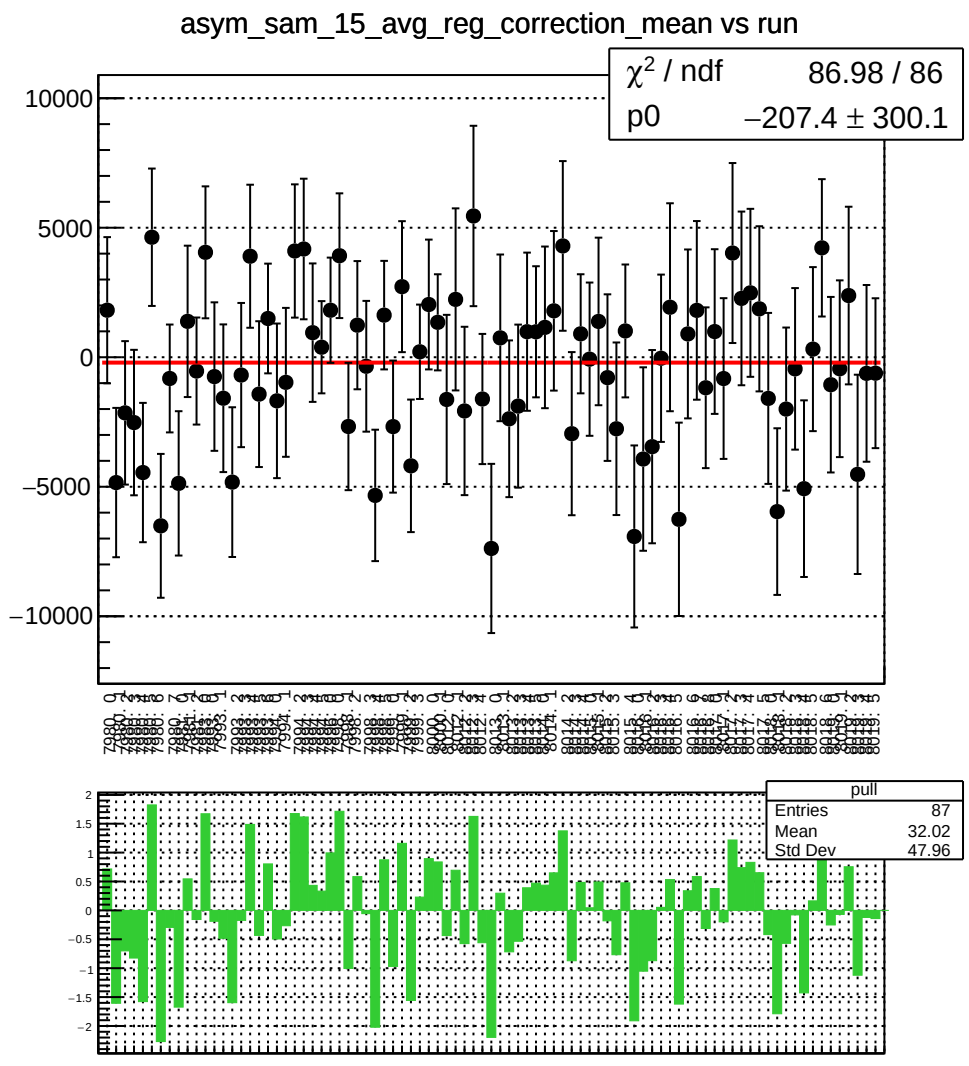

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.814e+05 / 86
p0 3.617e−11 ± 3.482e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

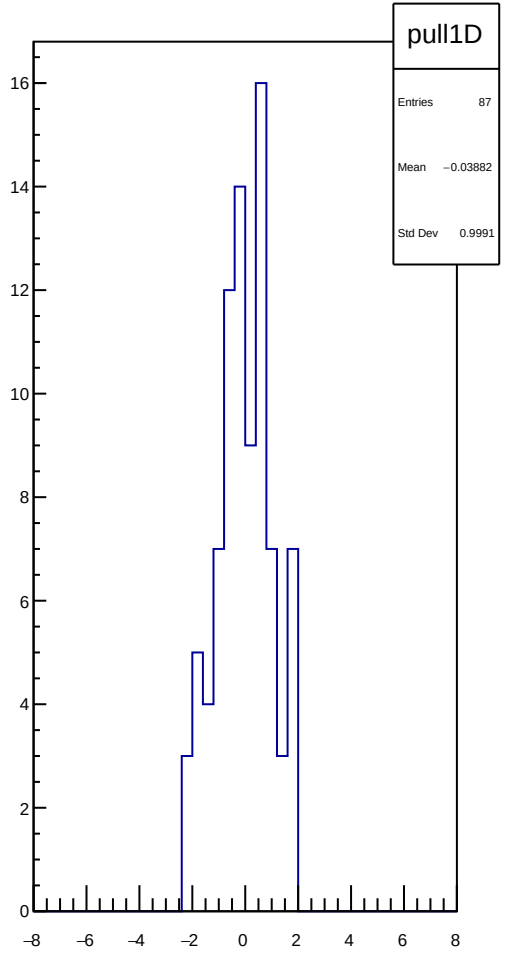

reg_asym_sam_15_avg_mean vs run
χ² / ndf 84.75 / 86
p0 53.08 ± 64.83
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −2.208
Std Dev 57.87
2
1
0
−1
−2
−3

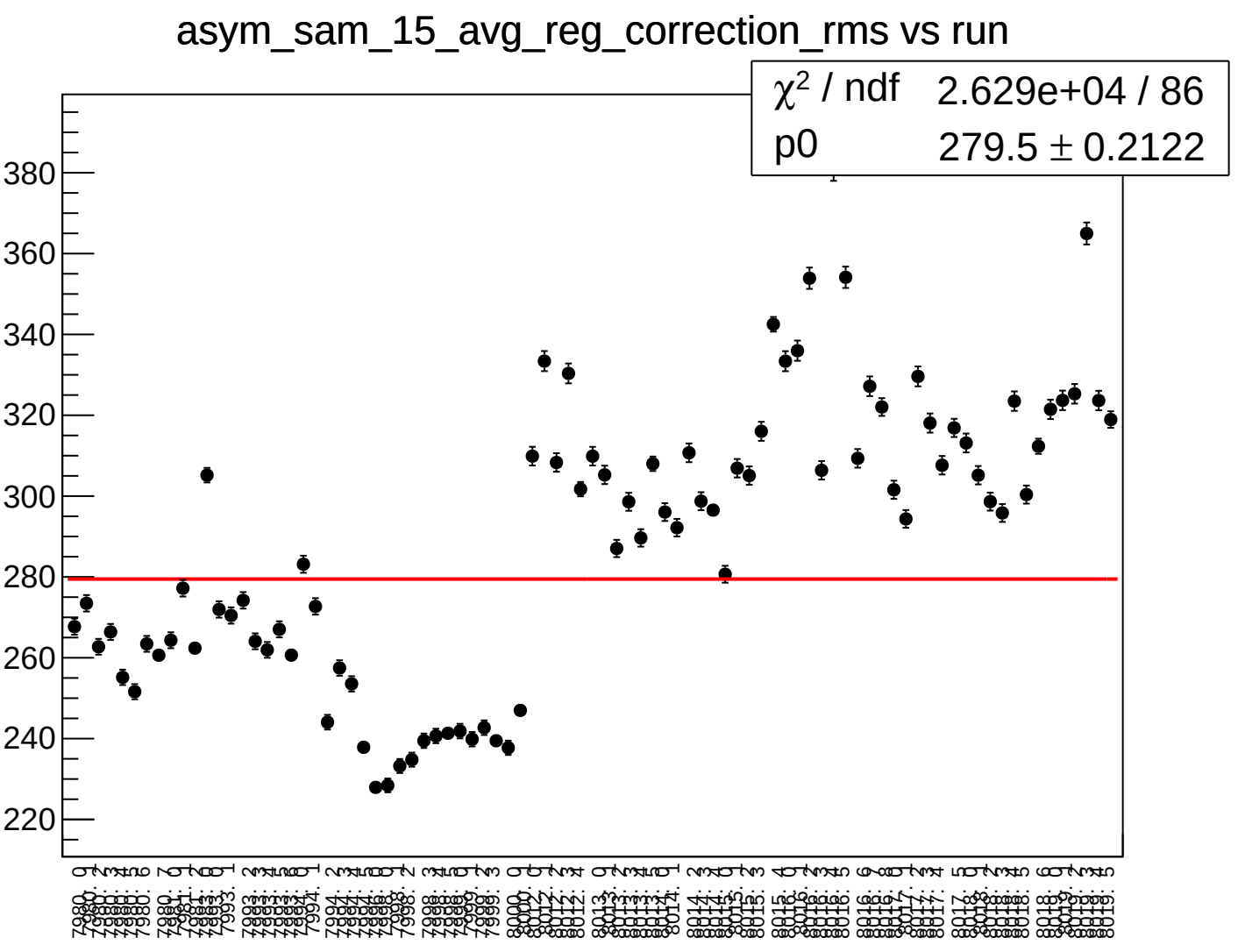

pull1D
Entries 87
Mean −0.02805
Std Dev 0.9866
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

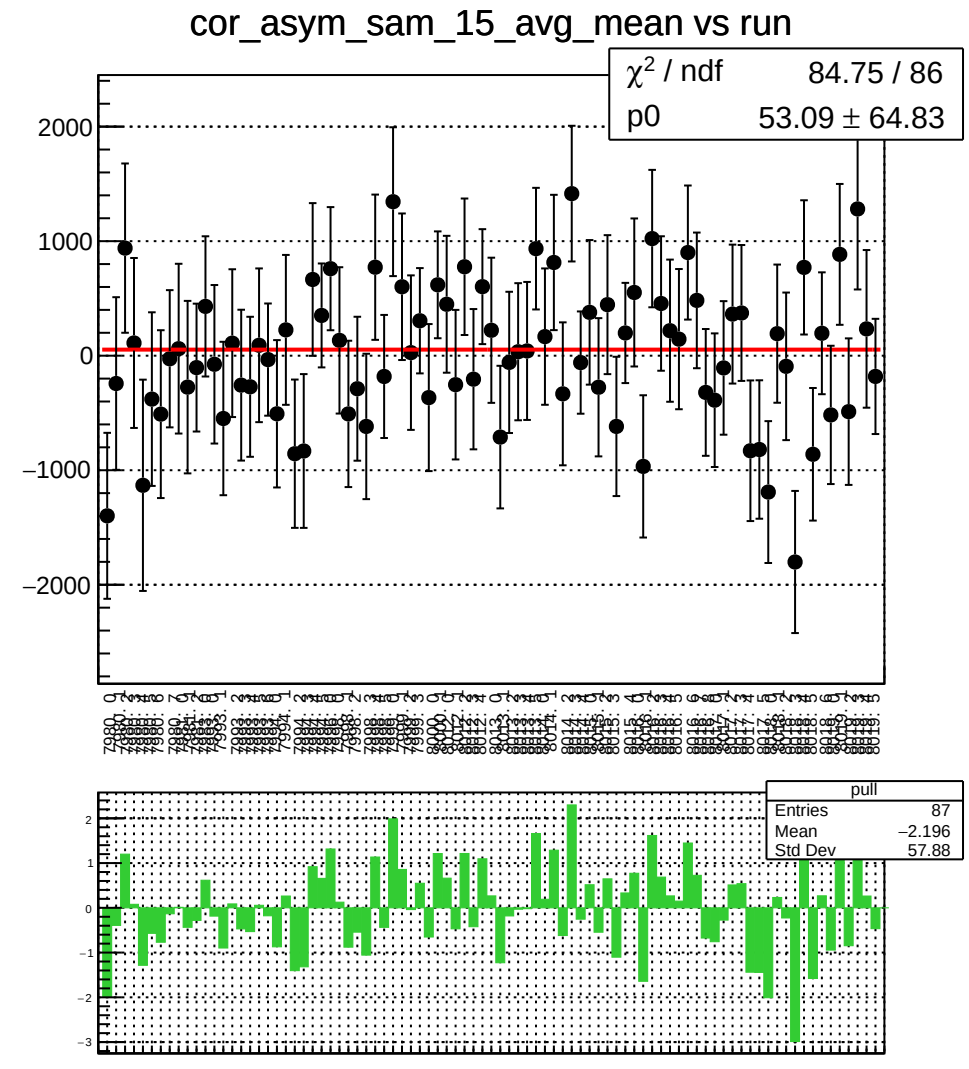
reg_asym_sam_15_avg_rms vs run

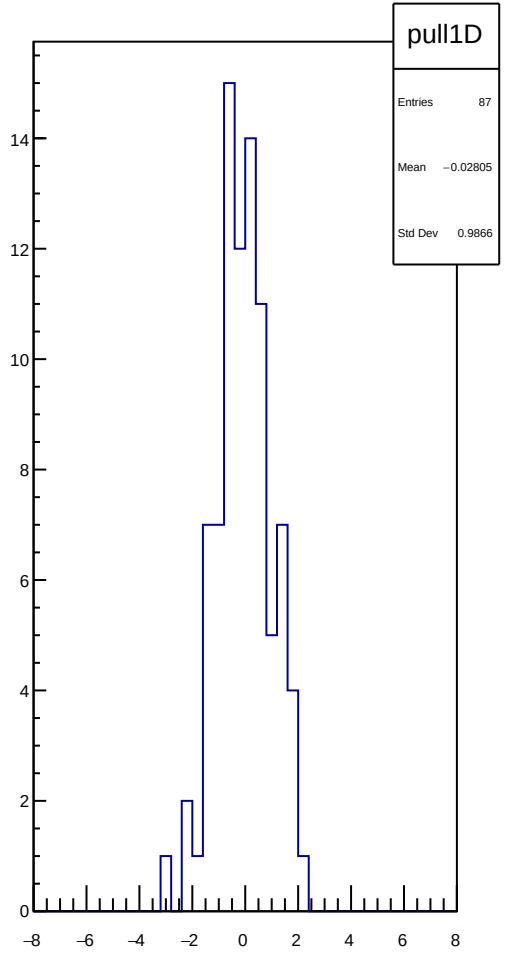


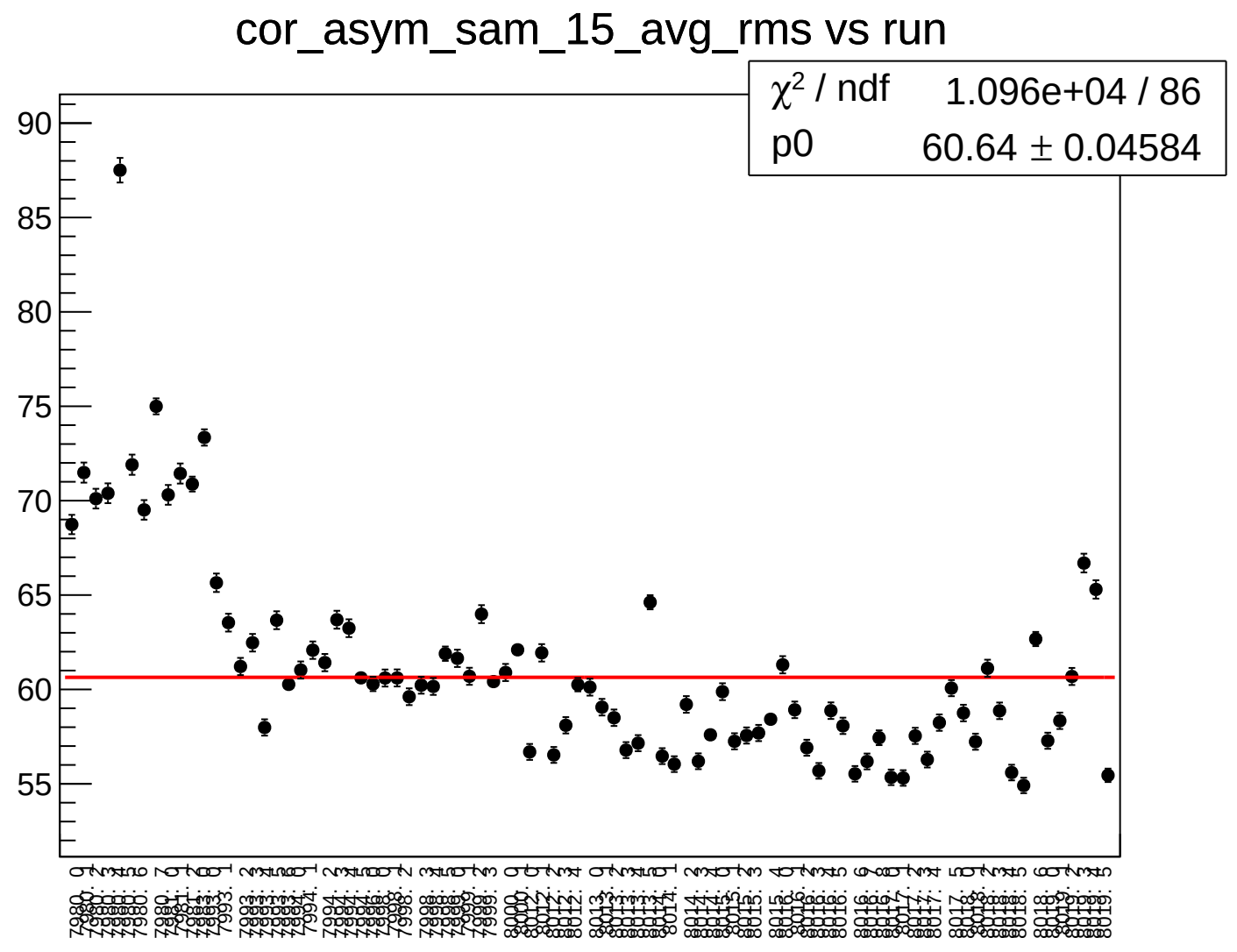

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 86.98 / 86
p0 −207.4 ± 300.1
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 32.02
Std Dev 47.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

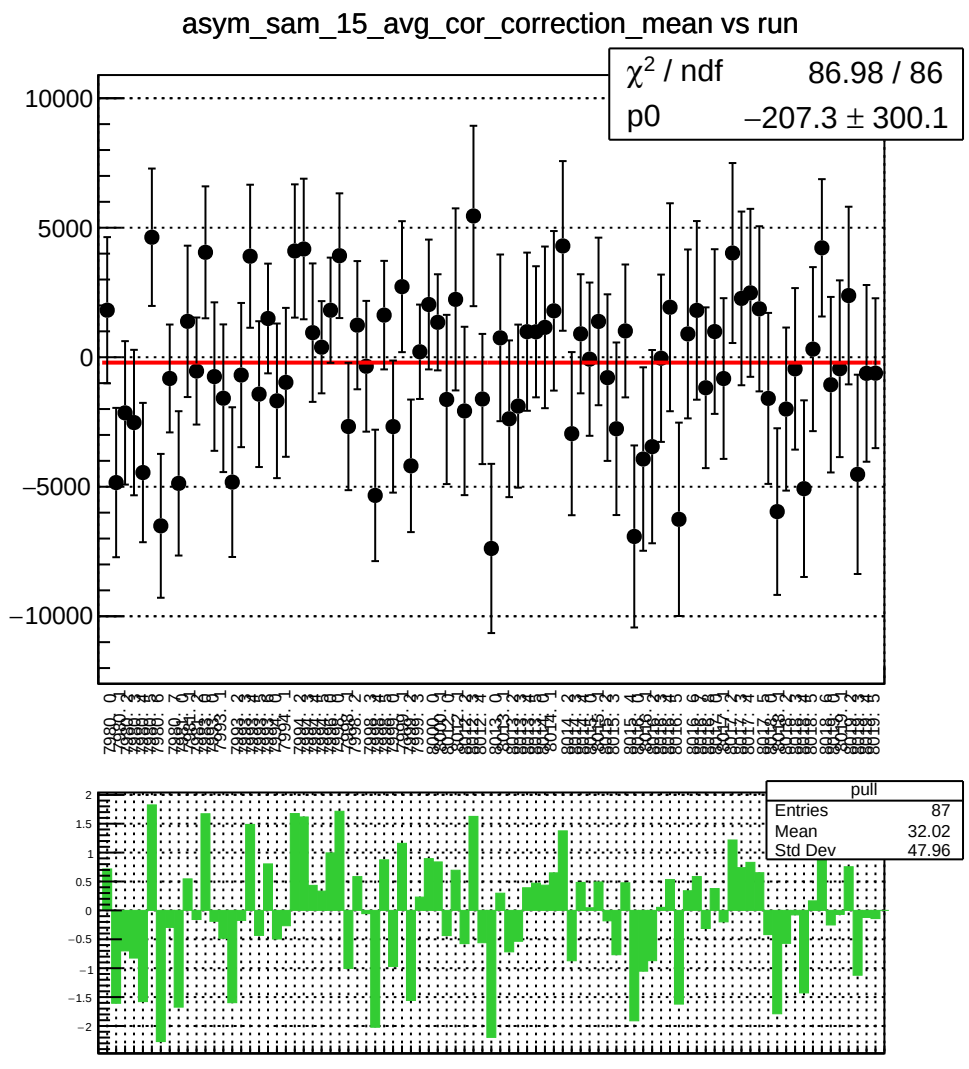

pull1D
Entries 87
Mean −0.03882
Std Dev 0.9991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

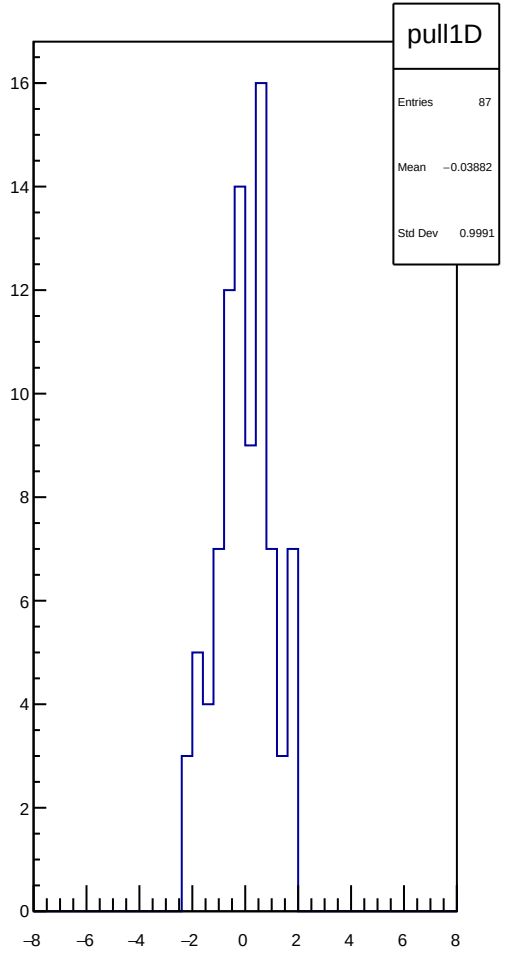

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 2.629e+04 / 86
p0 279.5 ± 0.2122
380
360
340
320
300
280
260
240
220

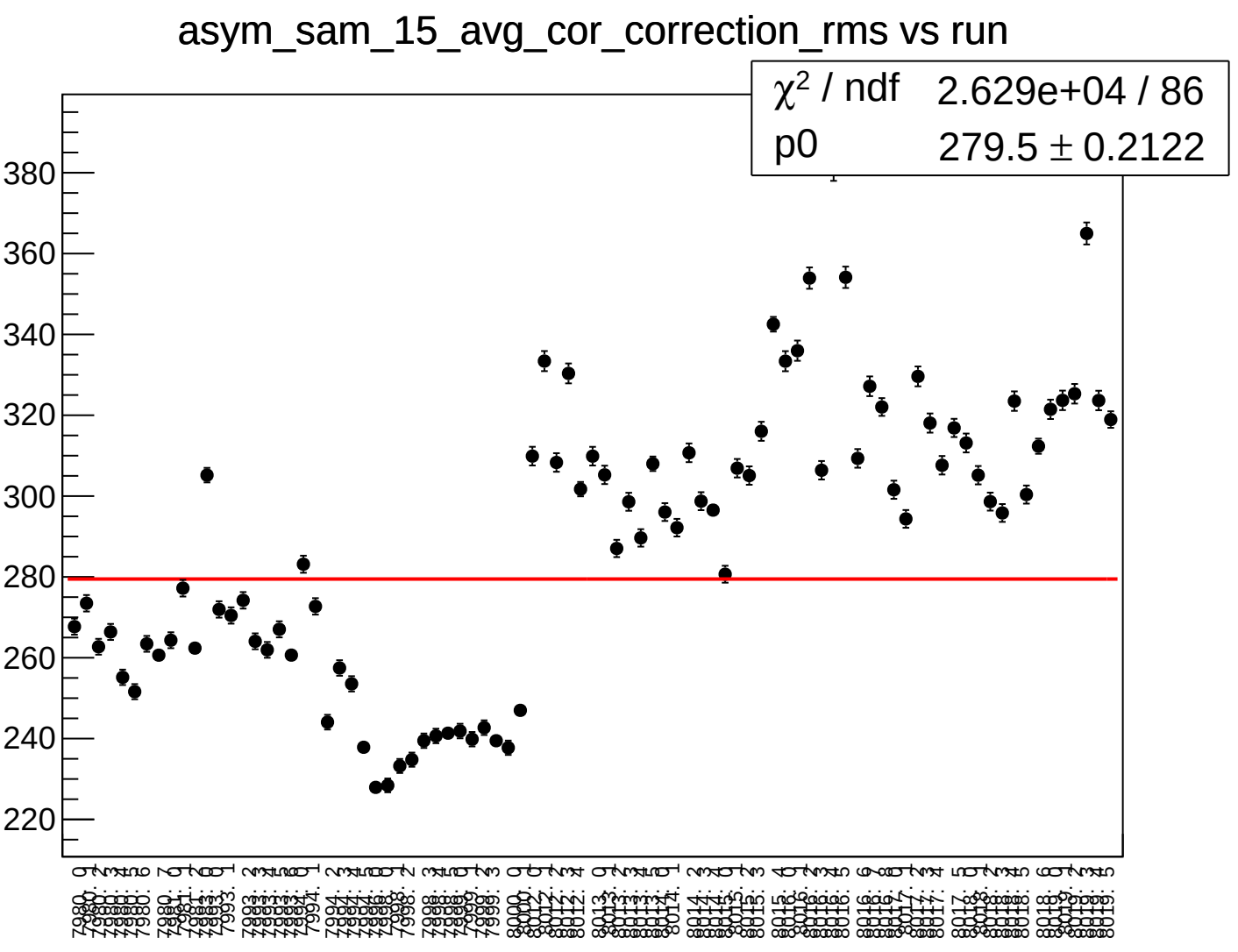

cor_asym_sam_15_avg_mean vs run
χ² / ndf 84.75 / 86
p0 53.09 ± 64.83
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −2.196
Std Dev 57.88
2
1
0
−1
−2
−3

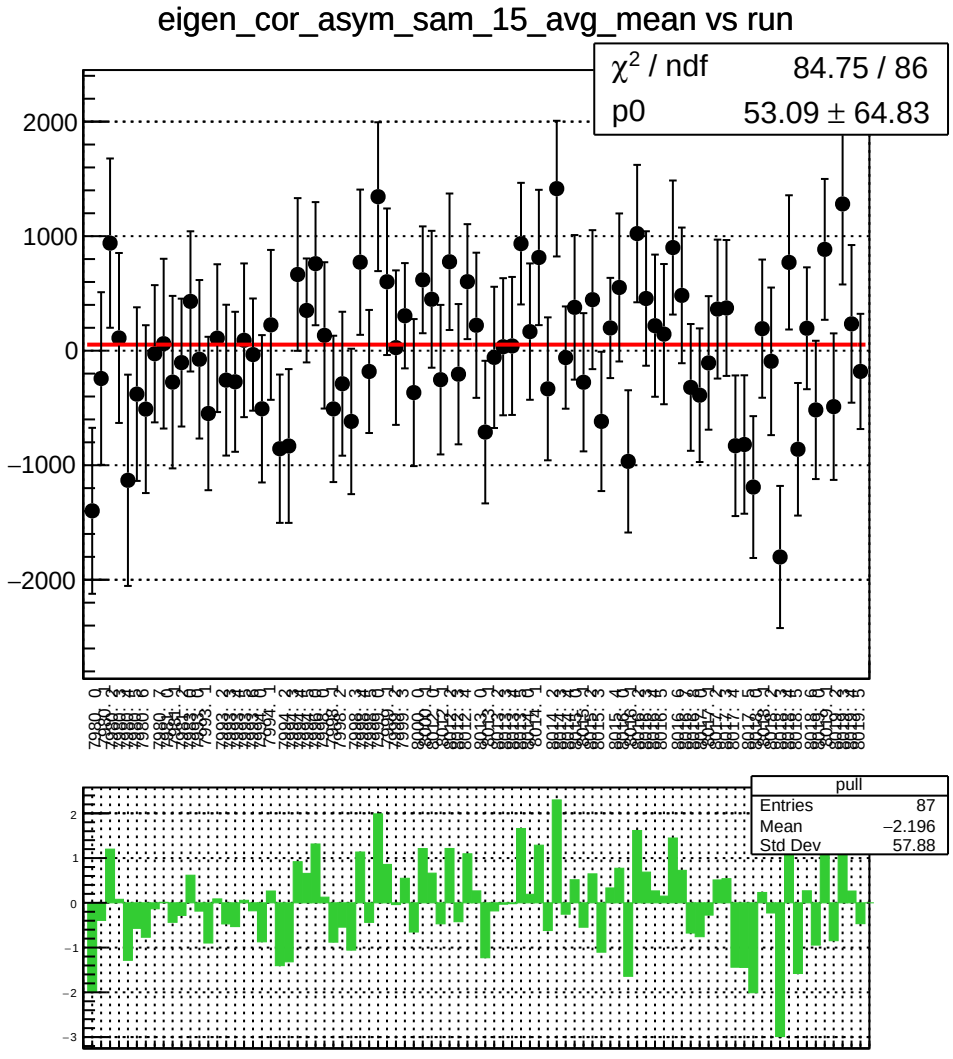

pull1D
Entries 87
Mean −0.02805
Std Dev 0.9866
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

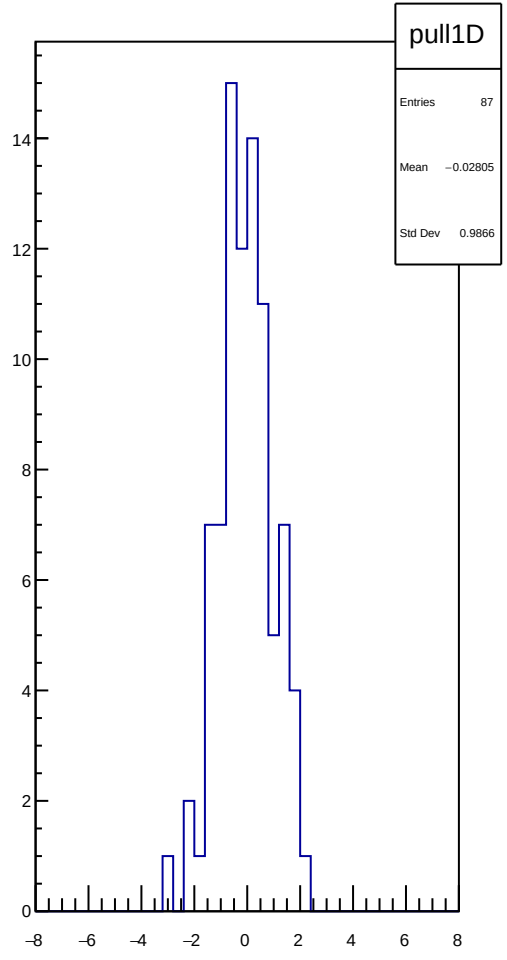

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.096e+04 / 86
p0 60.64 ± 0.04584
90
85
80
75
70
65
60
55

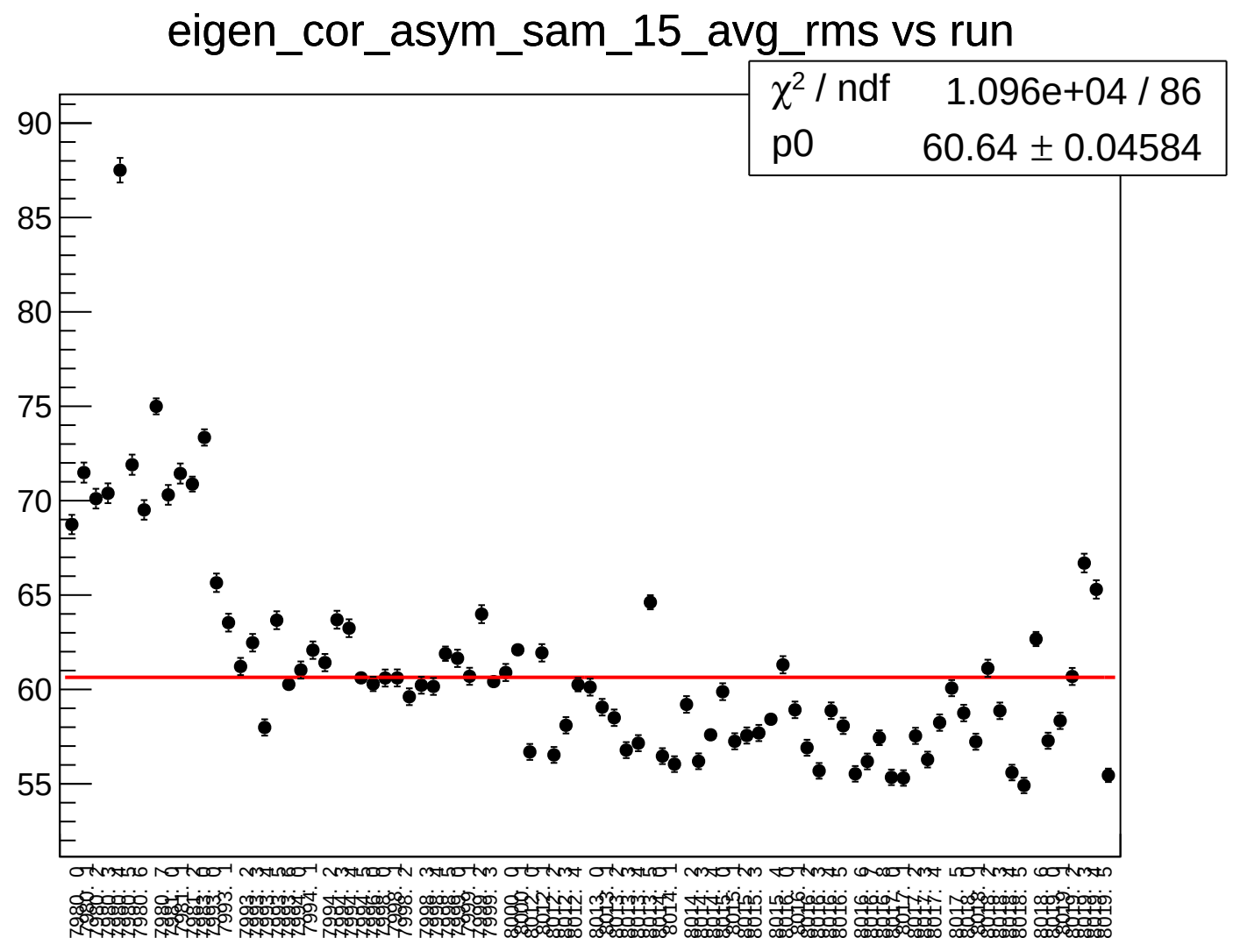

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 86.98 / 86
p0 −207.3 ± 300.1
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 32.02
Std Dev 47.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

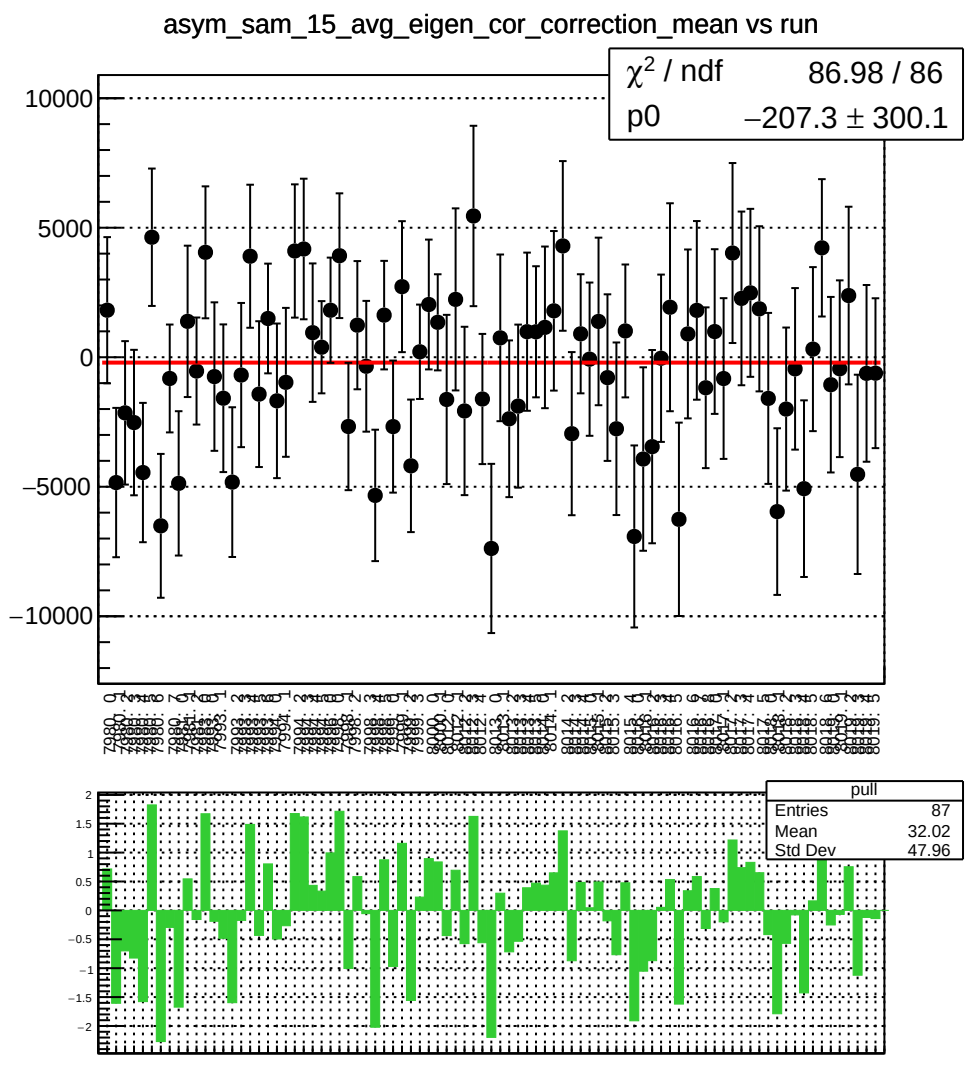

pull1D
Entries 87
Mean −0.03882
Std Dev 0.9991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

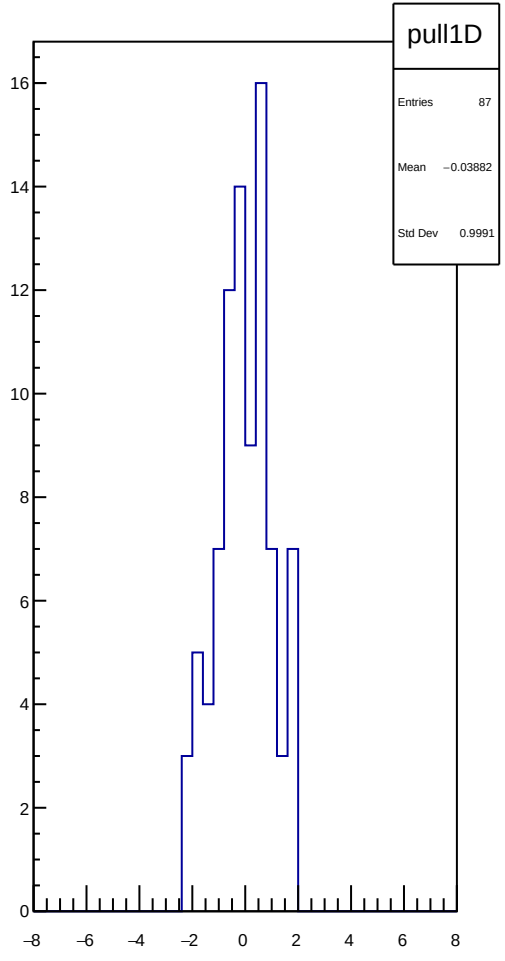

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 2.629e+04 / 86
p0 279.5 ± 0.2122
380
360
340
320
300
280
260
240
220

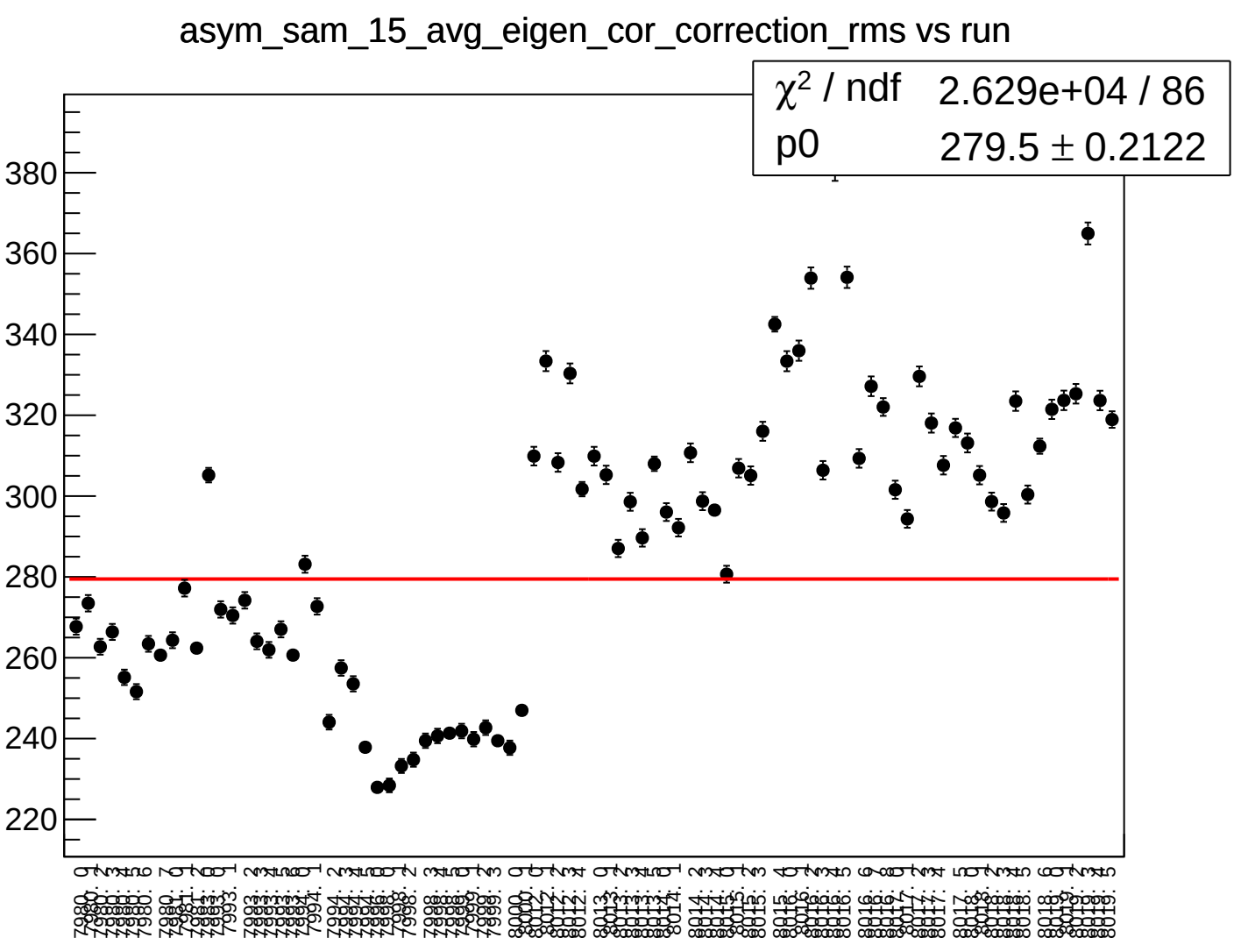

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 84.75 / 86
p0 53.09 ± 64.83
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −2.196
Std Dev 57.88
2
1
0
−1
−2
−3

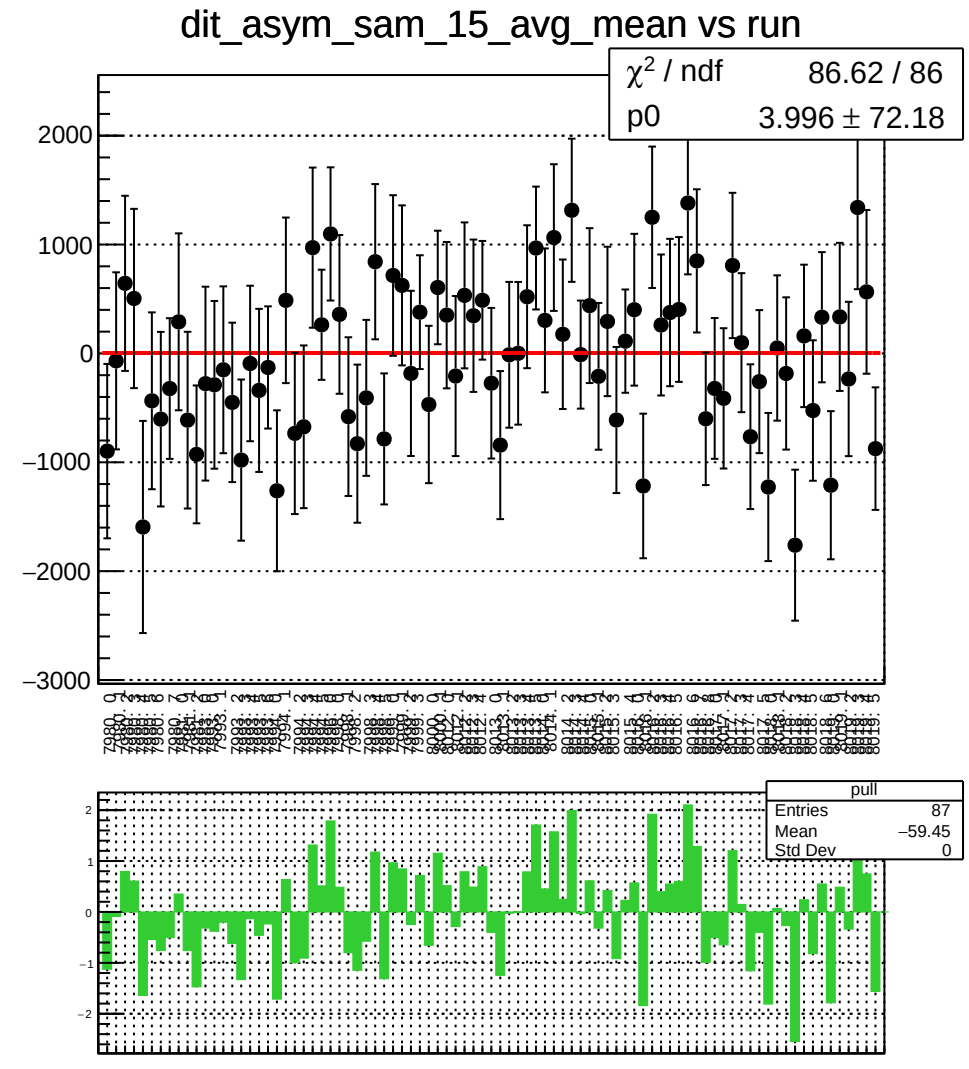

pull1D
Entries 87
Mean −0.02805
Std Dev 0.9866
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

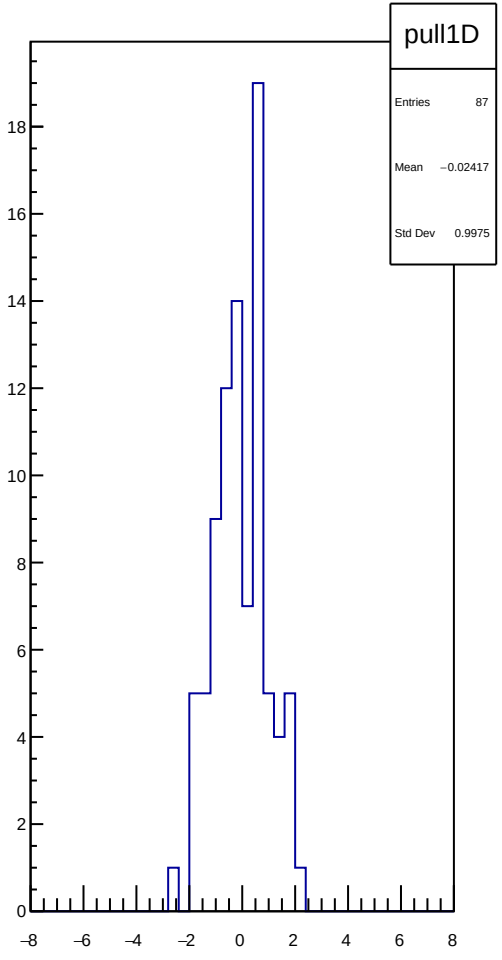

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.096e+04 / 86
p0 60.64 ± 0.04584
90
85
80
75
70
65
60
55

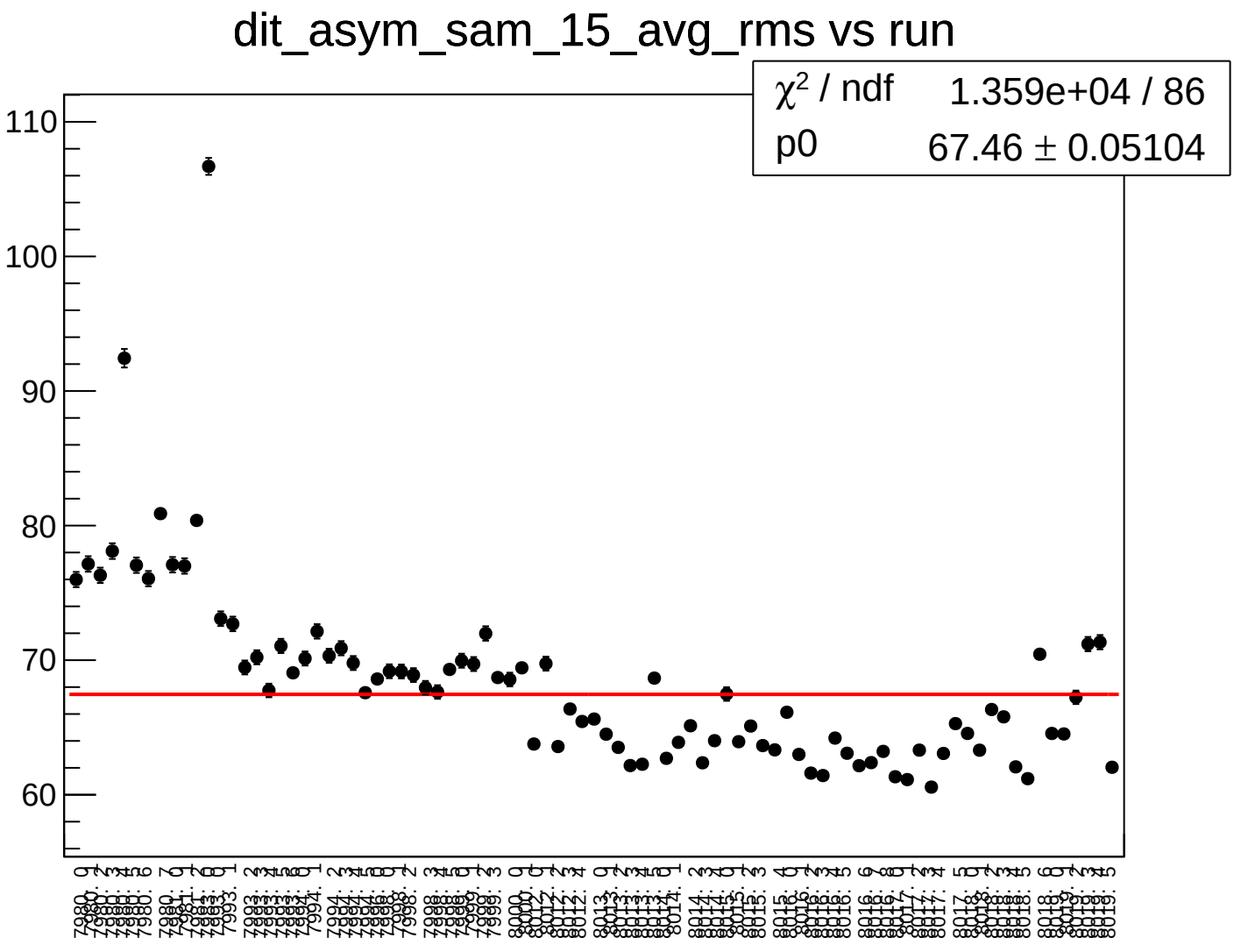

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.98 / 86
p0 −207.3 ± 300.1
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 32.02
Std Dev 47.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

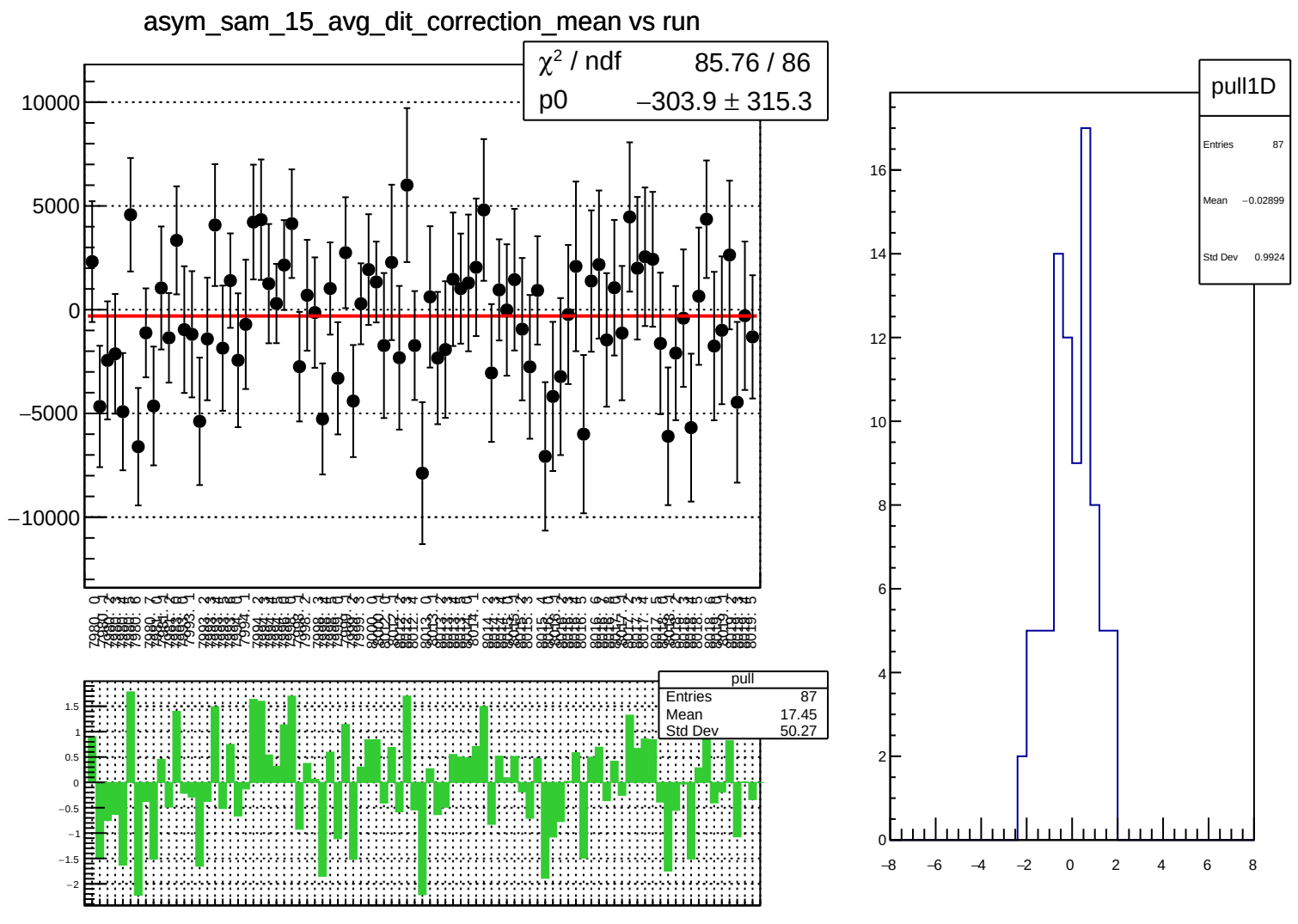

pull1D
Entries 87
Mean −0.03882
Std Dev 0.9991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

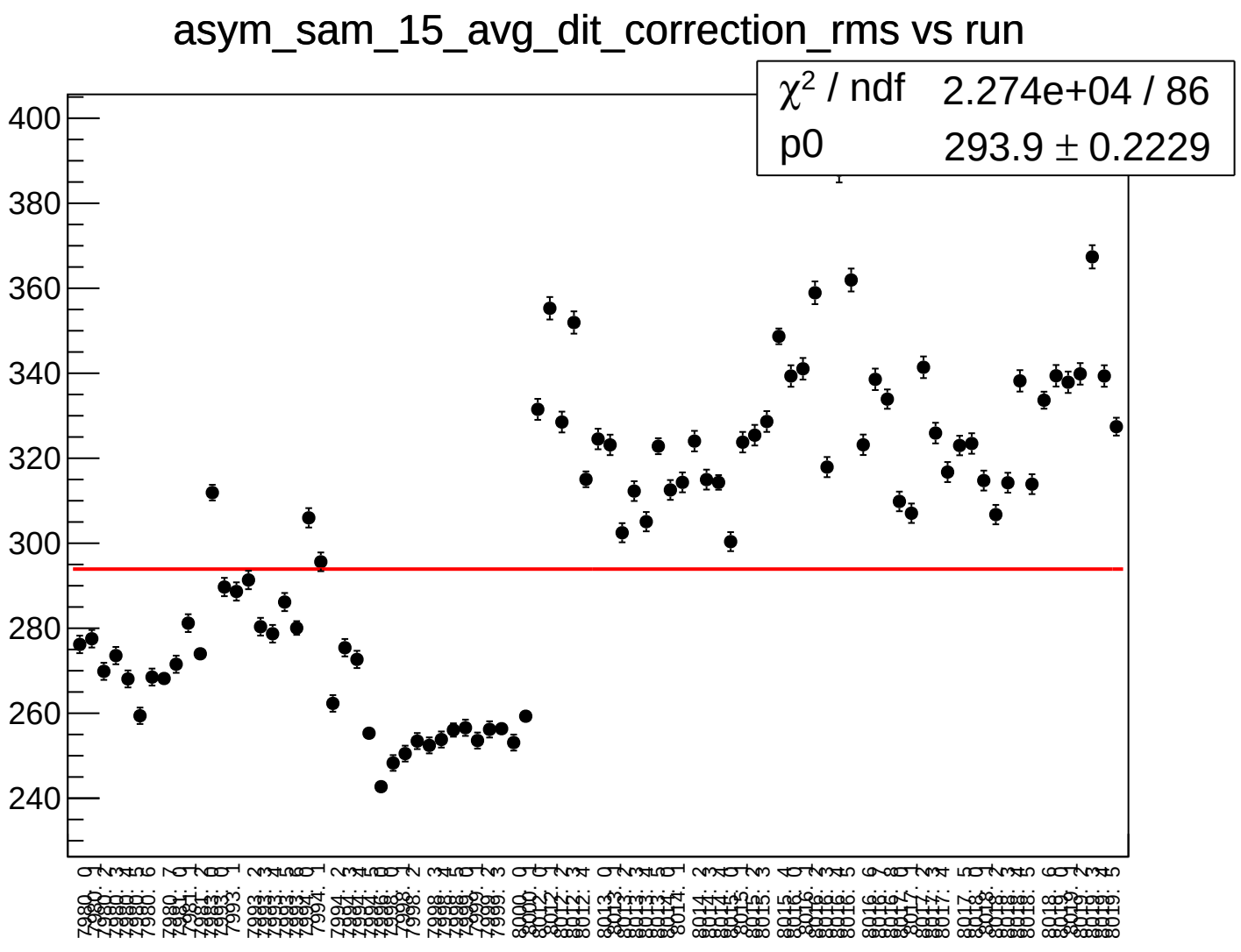

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.629e+04 / 86
p0 279.5 ± 0.2122
380
360
340
320
300
280
260
240
220

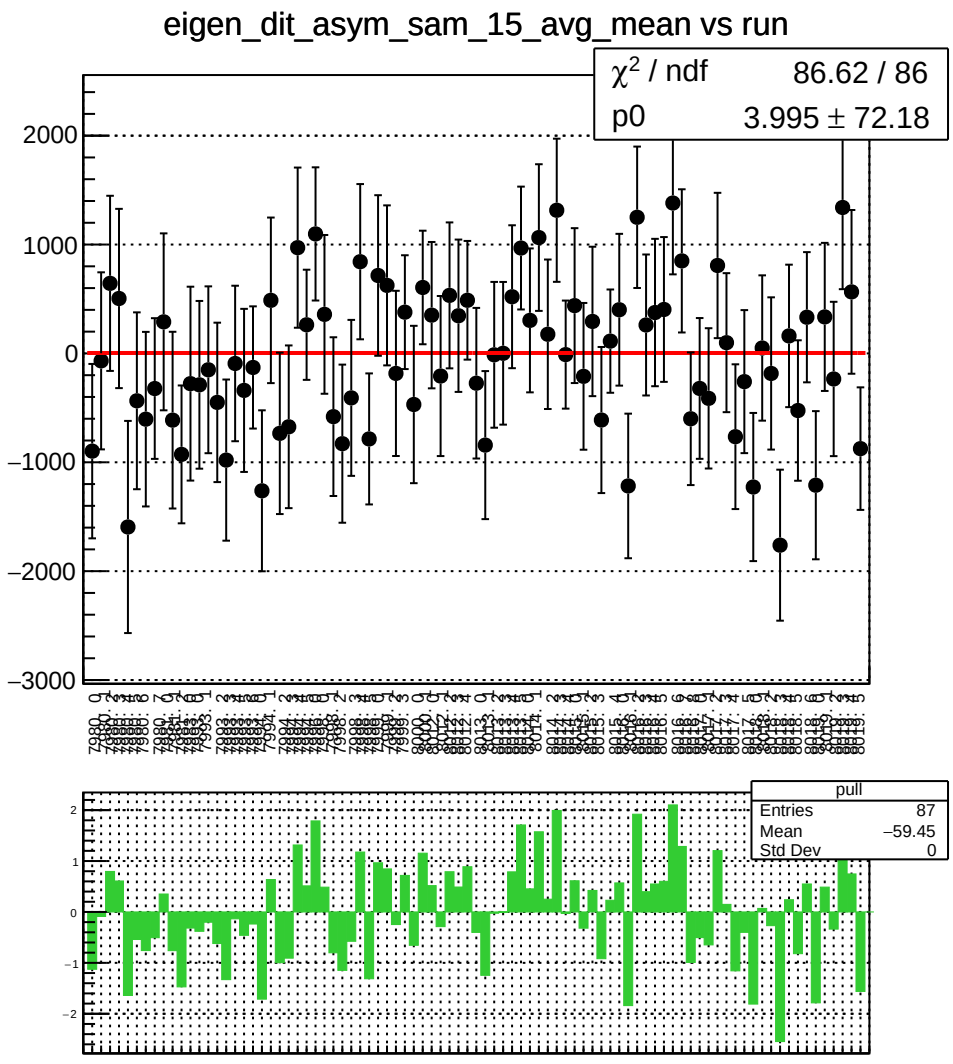

dit_asym_sam_15_avg_mean vs run
χ² / ndf 86.62 / 86
p0 3.996 ± 72.18
pull
Entries 87
Mean −59.45
Std Dev 0

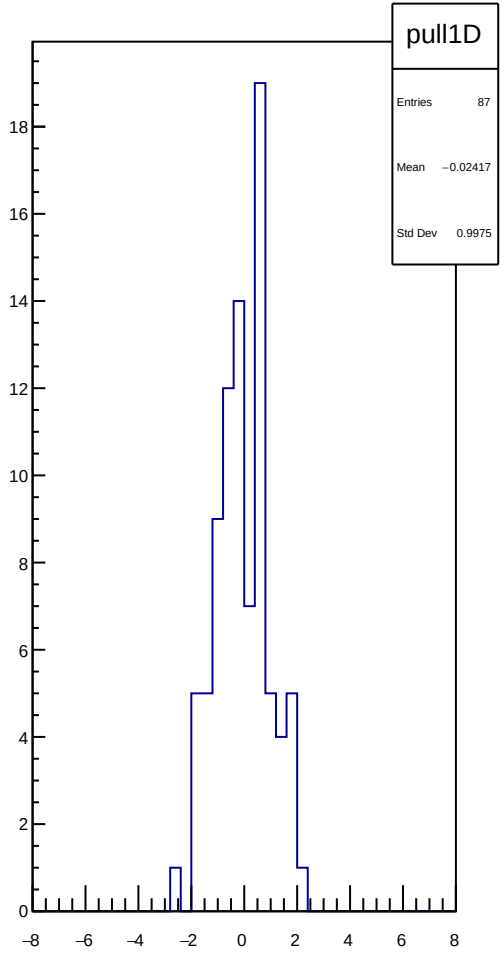

pull1D
Entries 87
Mean −0.02417
Std Dev 0.9975

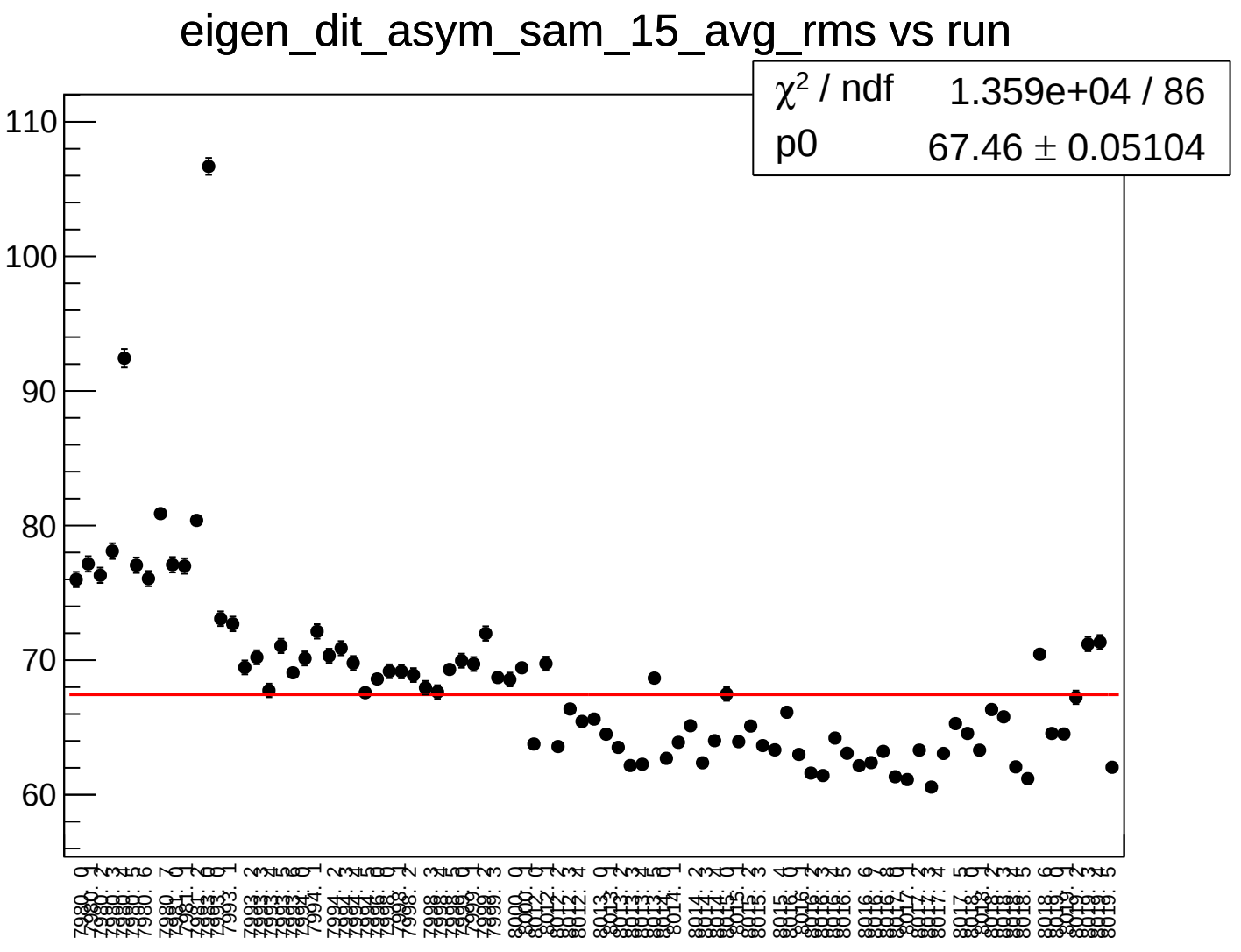

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.359e+04 / 86
p0 67.46 ± 0.05104
110
100
90
80
70
60

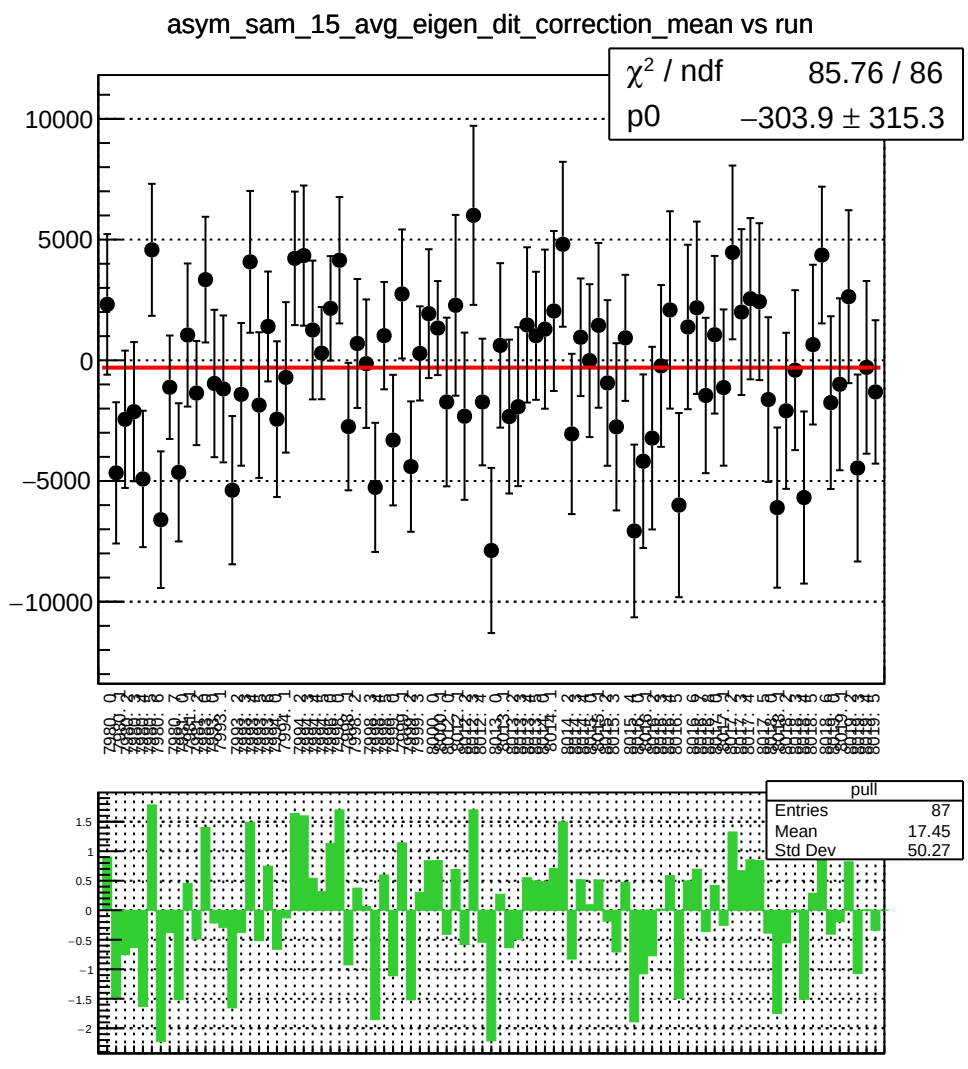

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 85.76 / 86
p0 −303.9 ± 315.3
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 17.45
Std Dev 50.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.02899
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

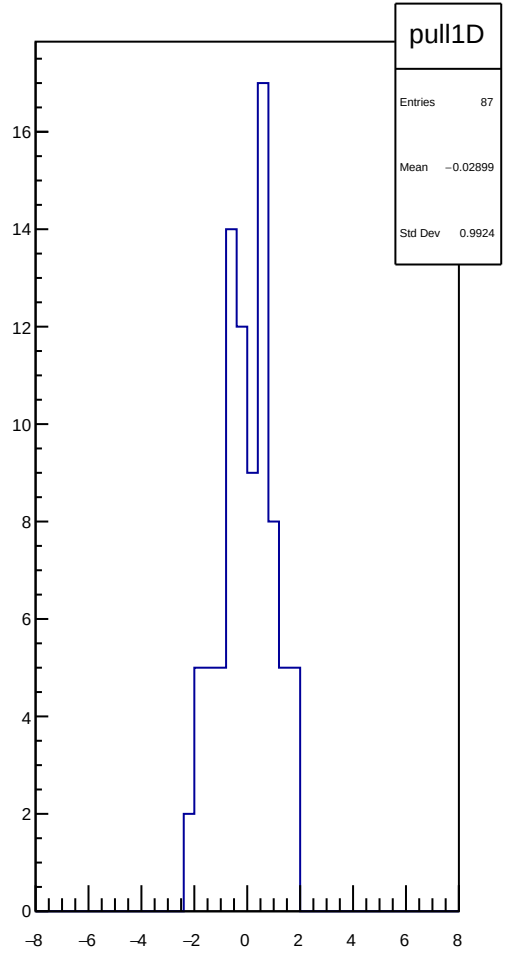

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 2.274e+04 / 86
p0 293.9 ± 0.2229
400
380
360
340
320
300
280
260
240

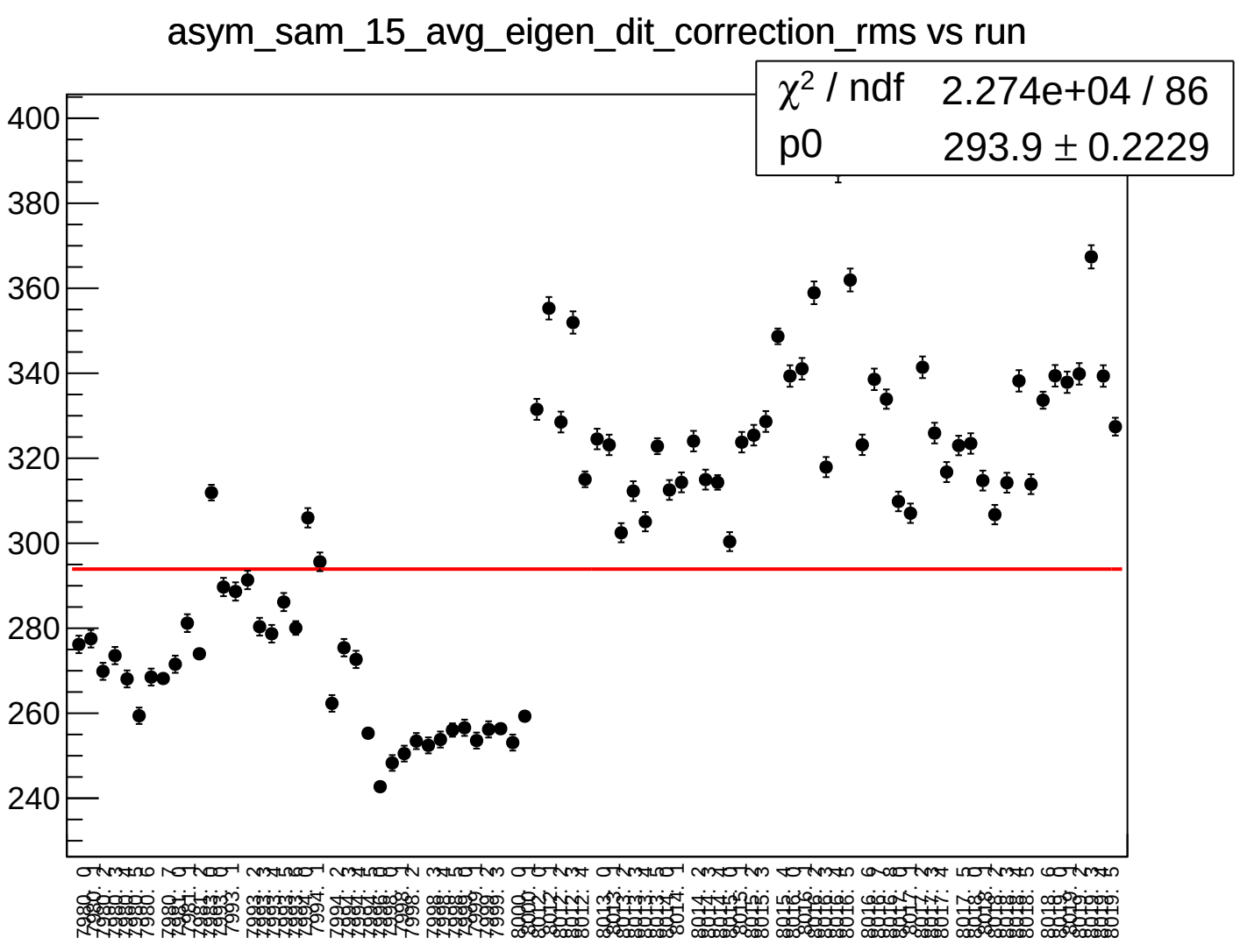

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 86.62 / 86
p0 3.995 ± 72.18
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −59.45
Std Dev 0
2
1
0
−1
−2

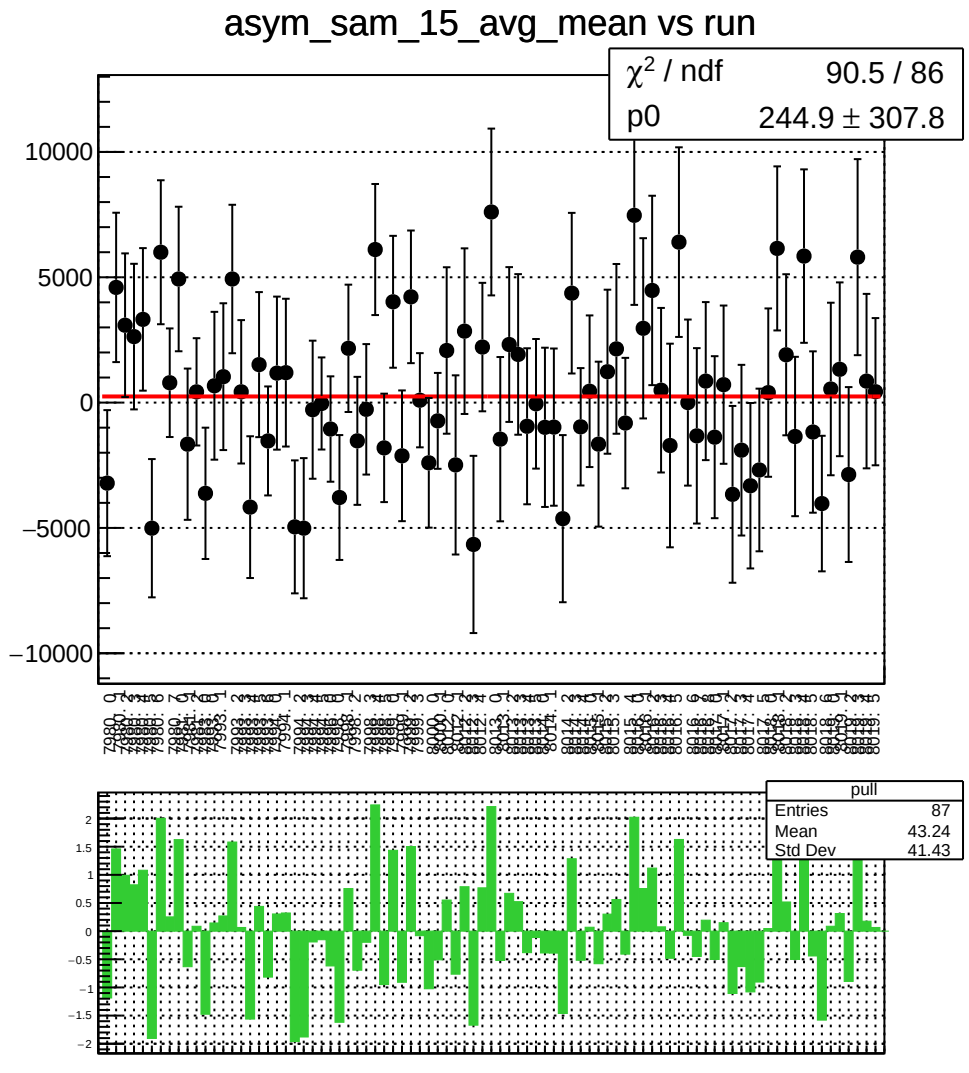

pull1D
Entries 87
Mean −0.02417
Std Dev 0.9975
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

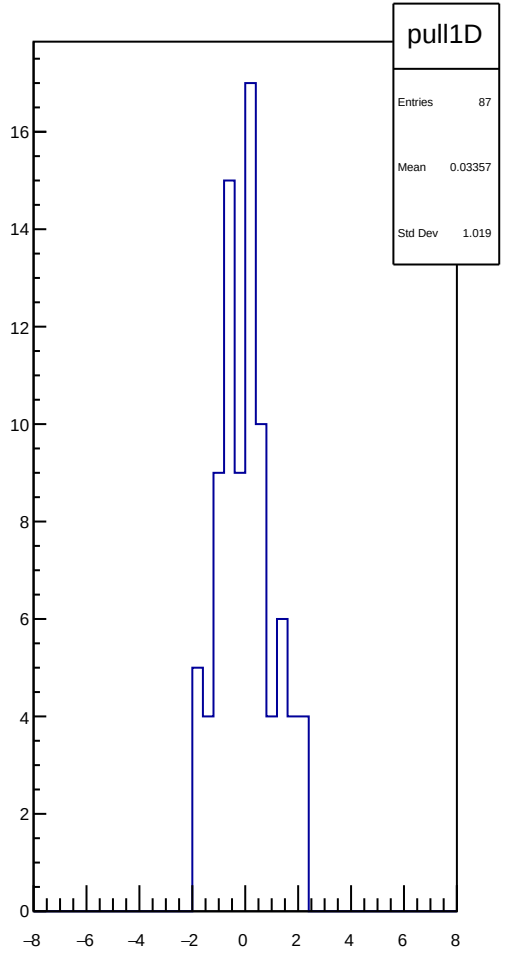

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.359e+04 / 86
p0 67.46 ± 0.05104
110
100
90
80
70
60

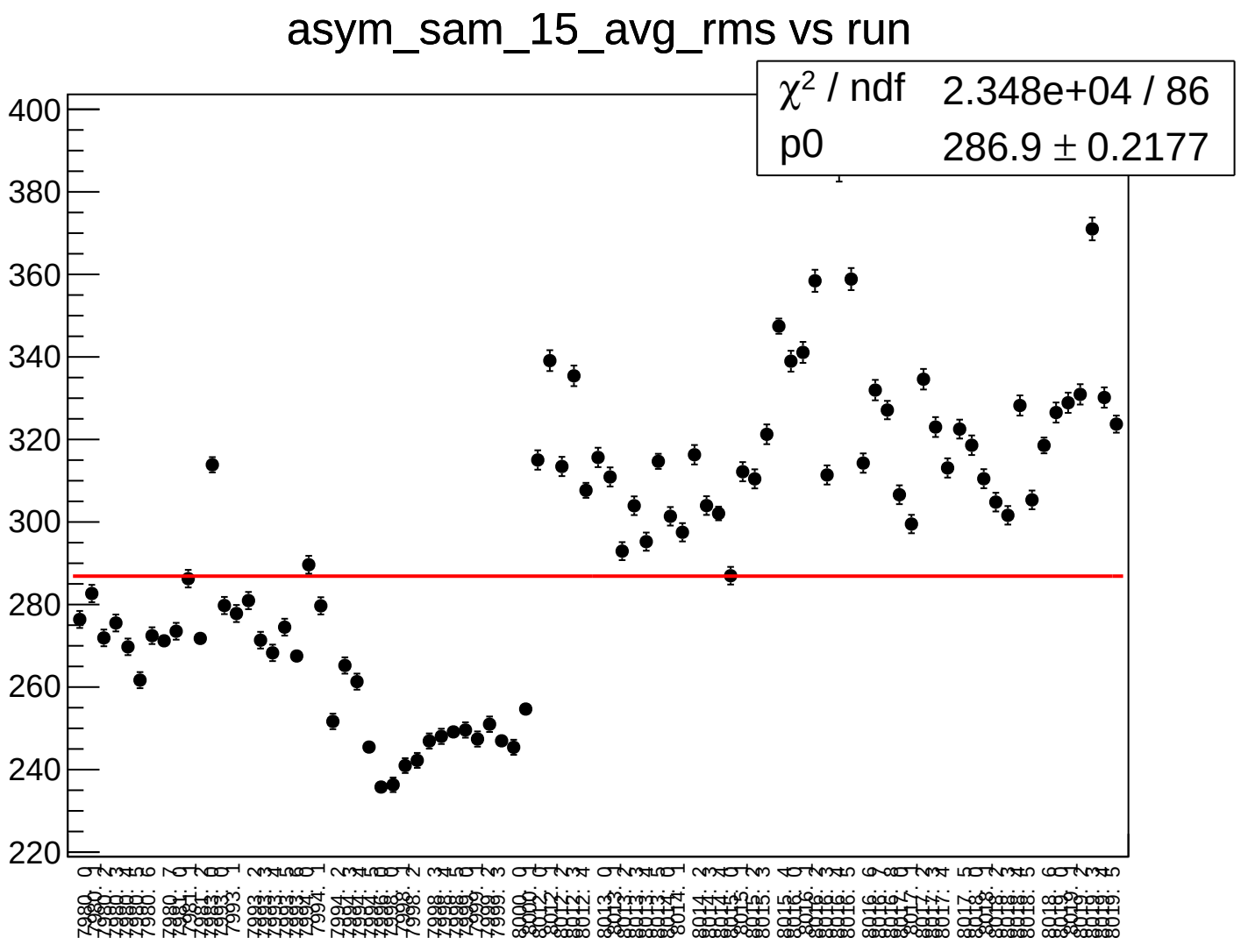

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.76 / 86
p0 −303.9 ± 315.3
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 17.45
Std Dev 50.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2

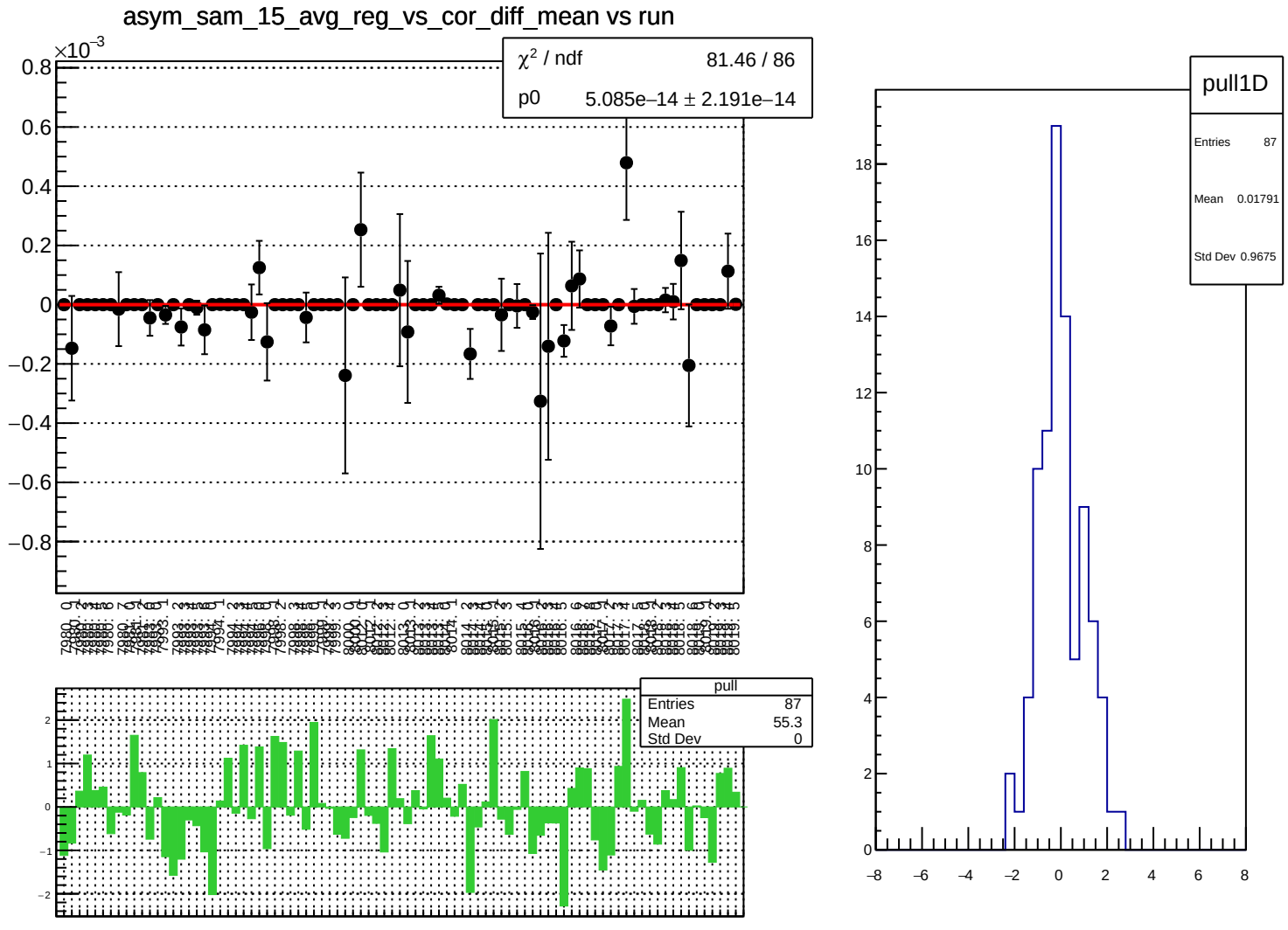

pull1D
Entries 87
Mean −0.02899
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

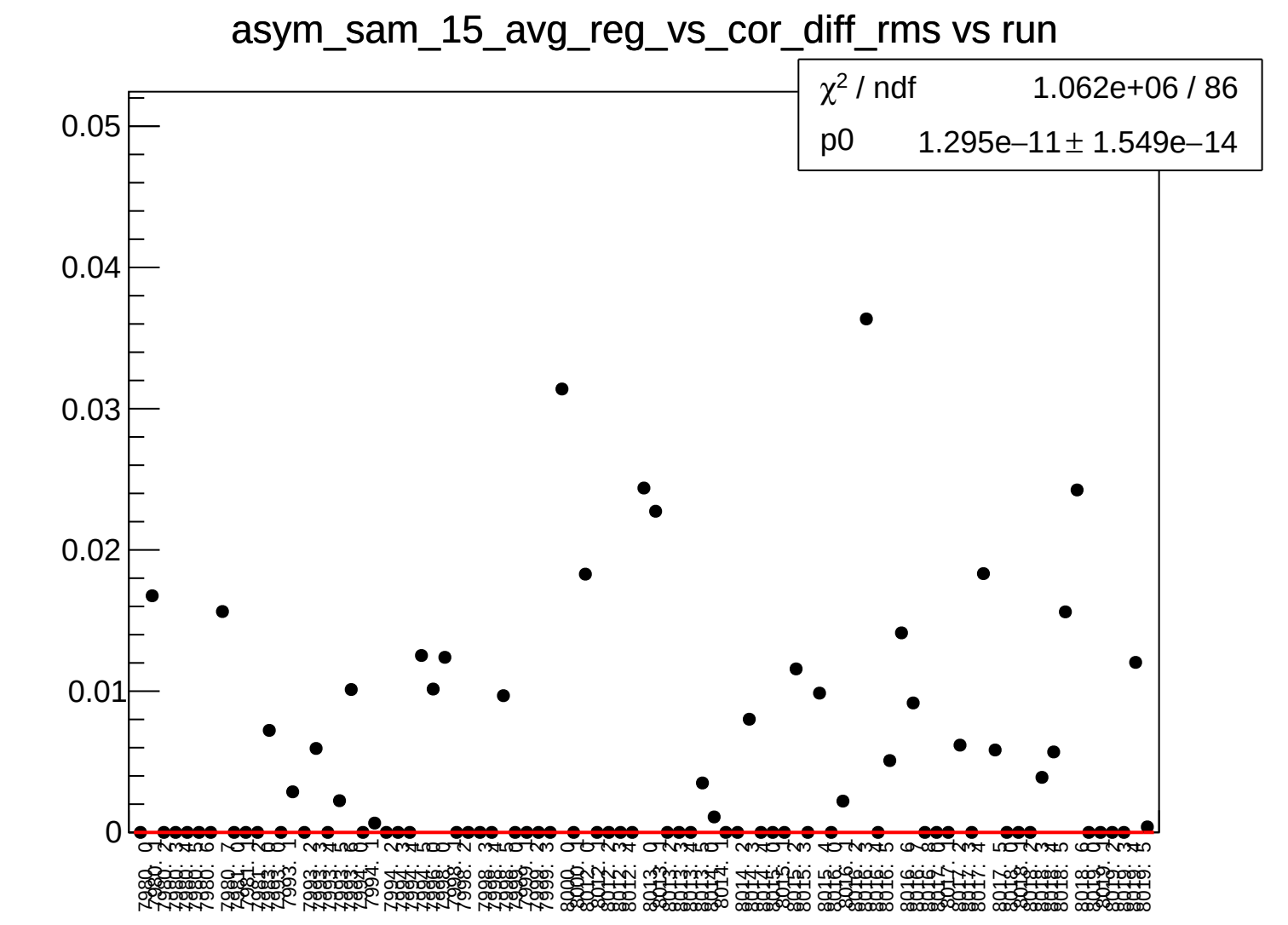

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.274e+04 / 86
p0 293.9 ± 0.2229
400
380
360
340
320
300
280
260
240

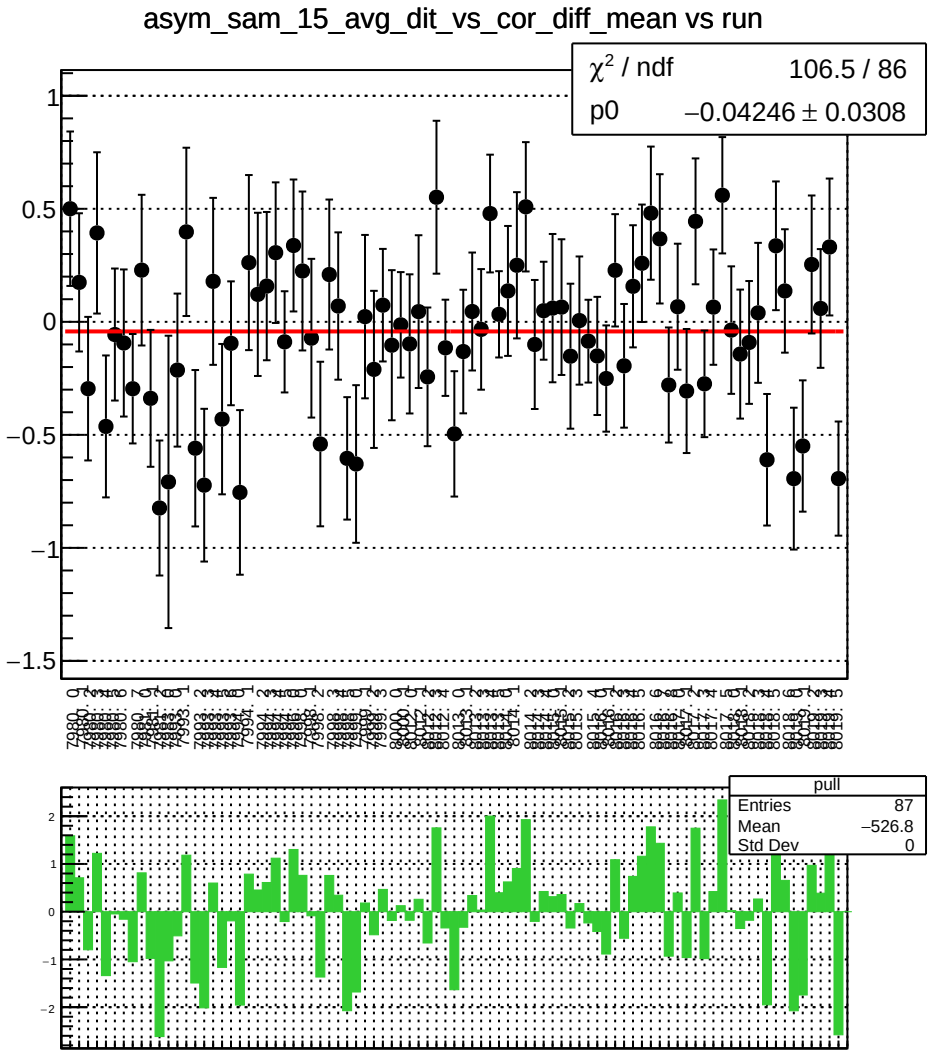

asym_sam_15_avg_mean vs run
χ² / ndf 90.5 / 86
p0 244.9 ± 307.8
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 43.24
Std Dev 41.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

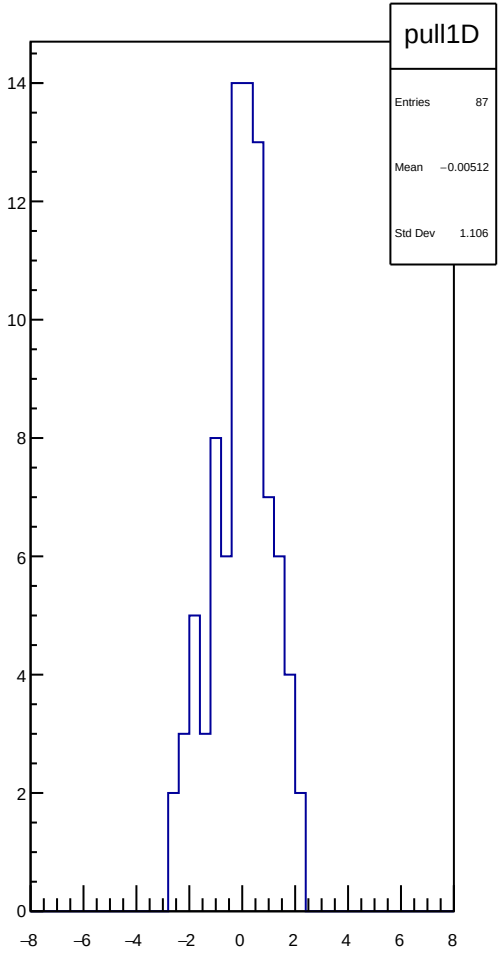

pull1D
Entries 87
Mean 0.03357
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

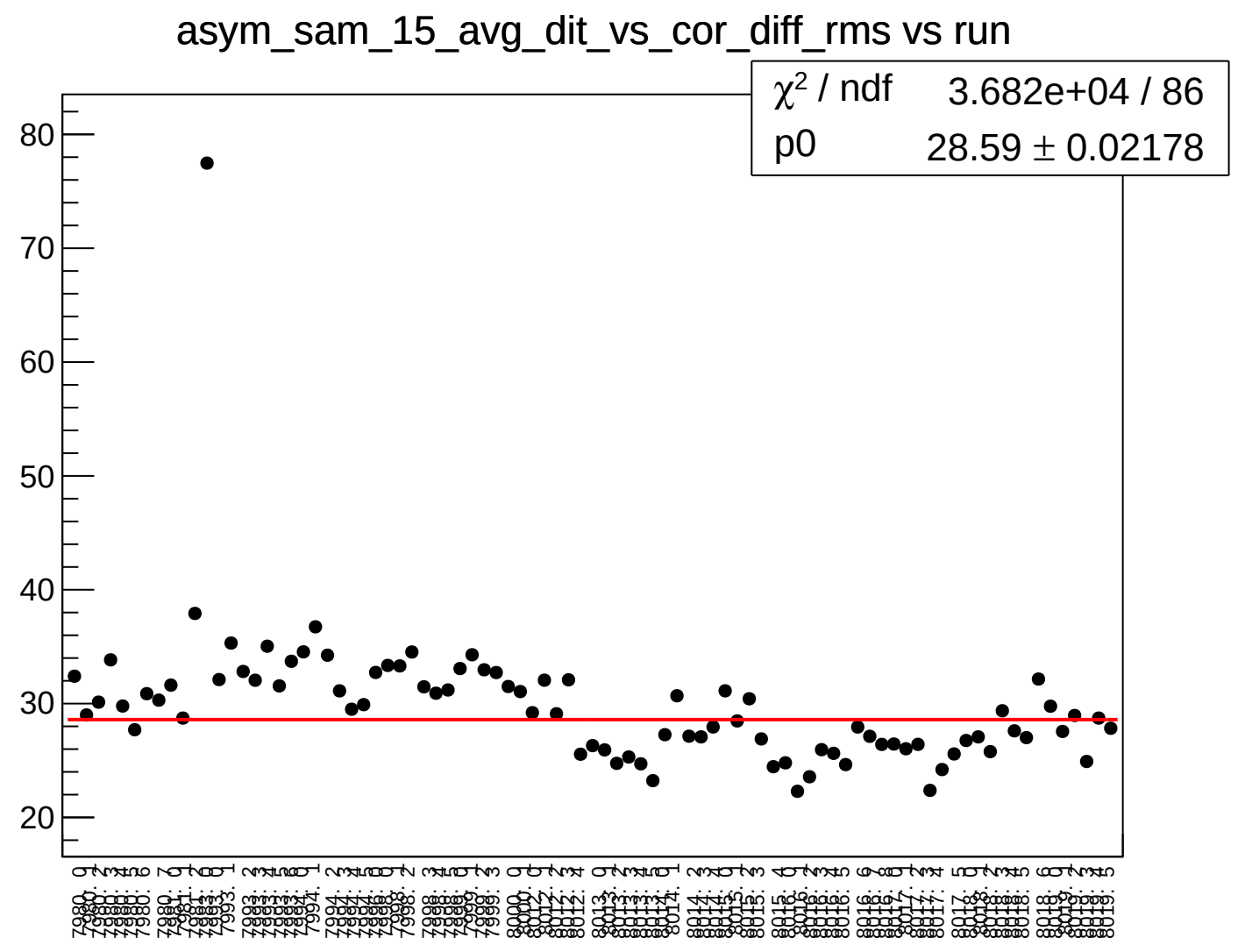

asym_sam_15_avg_rms vs run
χ² / ndf 2.348e+04 / 86
p0 286.9 ± 0.2177
400
380
360
340
320
300
280
260
240
220

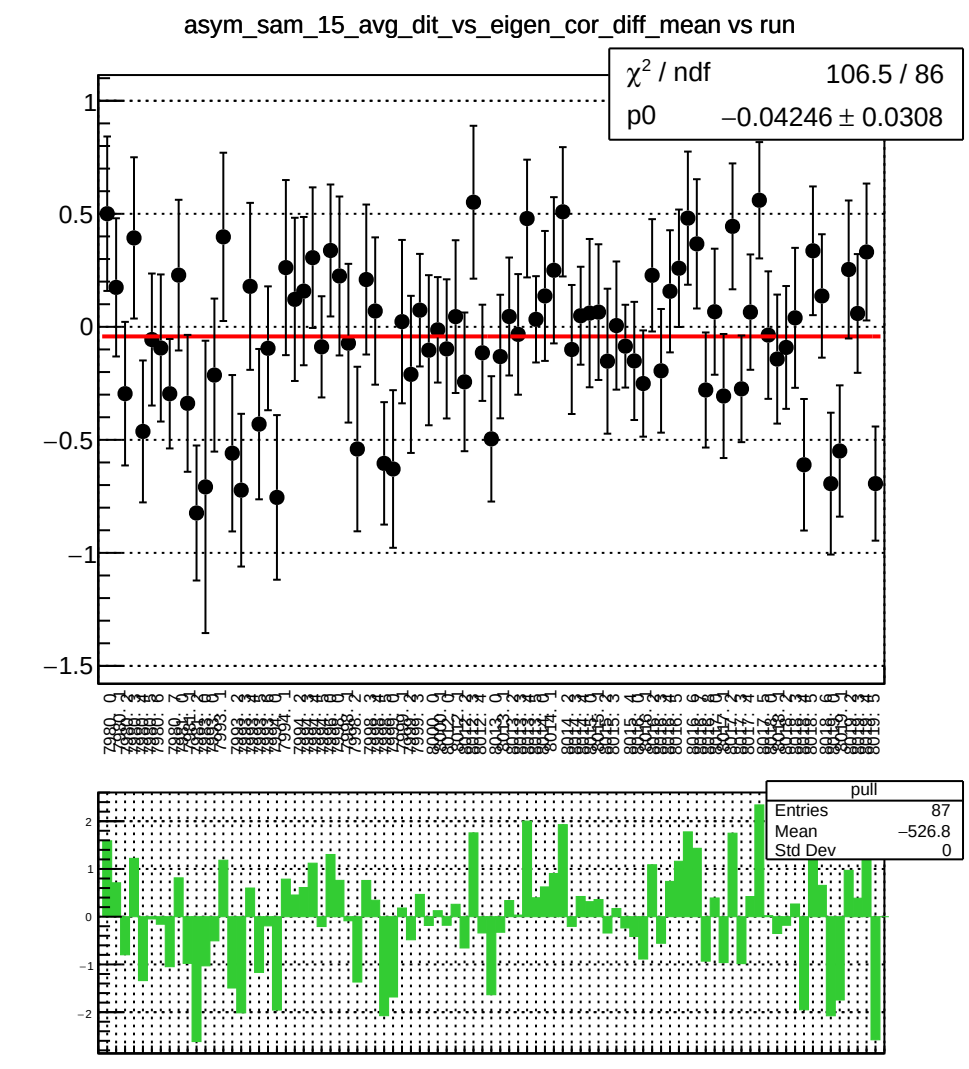

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 81.46 / 86
p0 5.085e−14 ± 2.191e−14
pull
Entries 87
Mean 55.3
Std Dev 0
pull1D
Entries 87
Mean 0.01791
Std Dev 0.9675

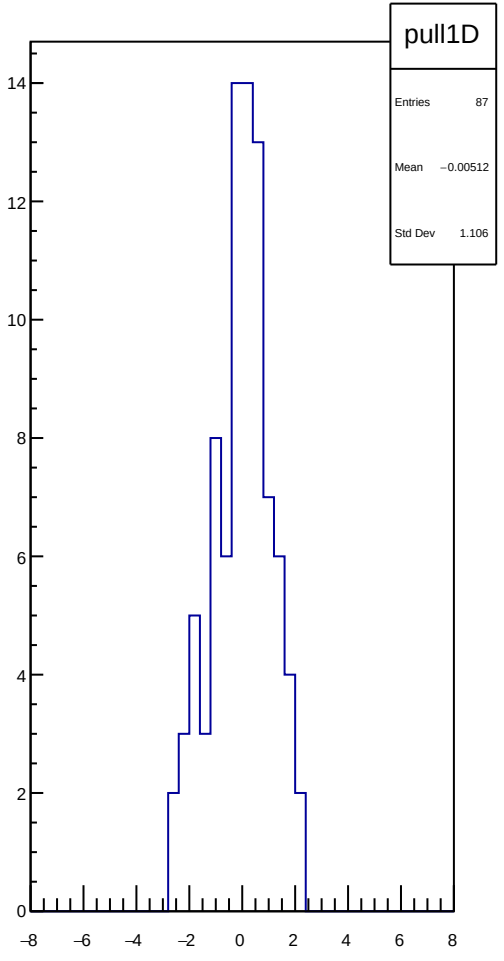

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.062e+06 / 86
p0 1.295e−11 ± 1.549e−14
0.05
0.04
0.03
0.02
0.01
0

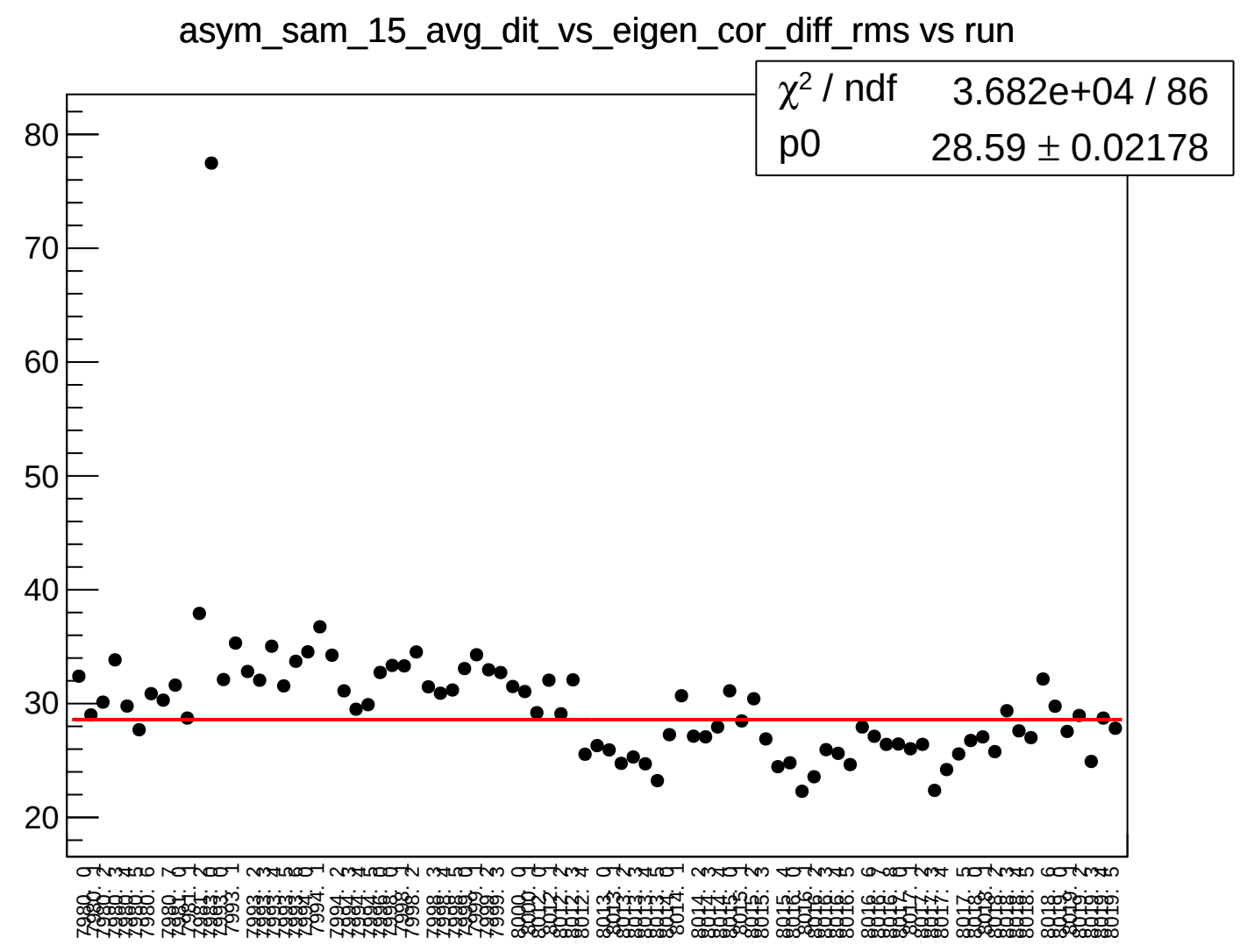

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.5 / 86
p0 −0.04246 ± 0.0308
pull
Entries 87
Mean −526.8
Std Dev 0

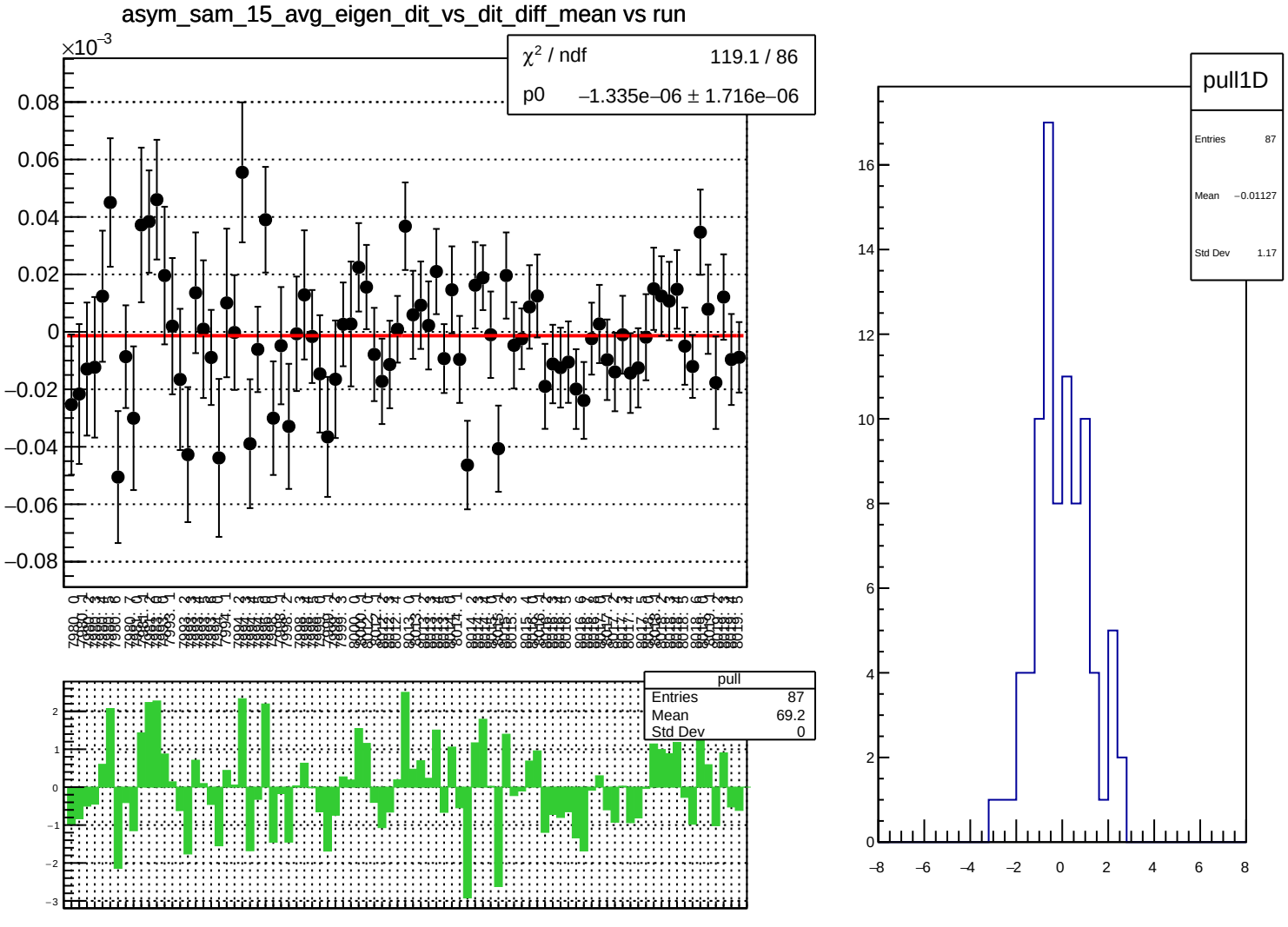

pull1D
Entries 87
Mean −0.00512
Std Dev 1.106

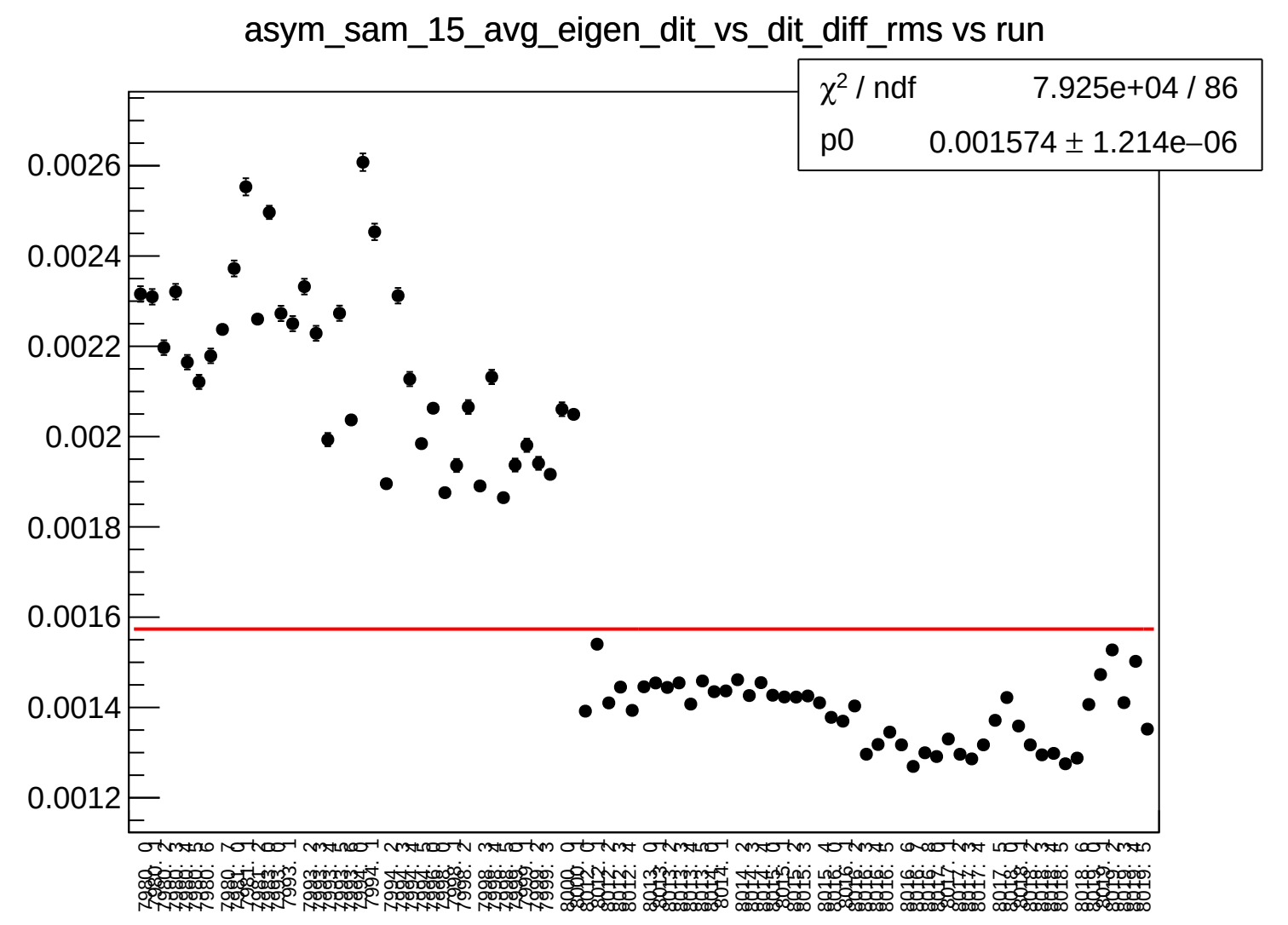

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.682e+04 / 86
p0 28.59 ± 0.02178
80
70
60
50
40
30
20

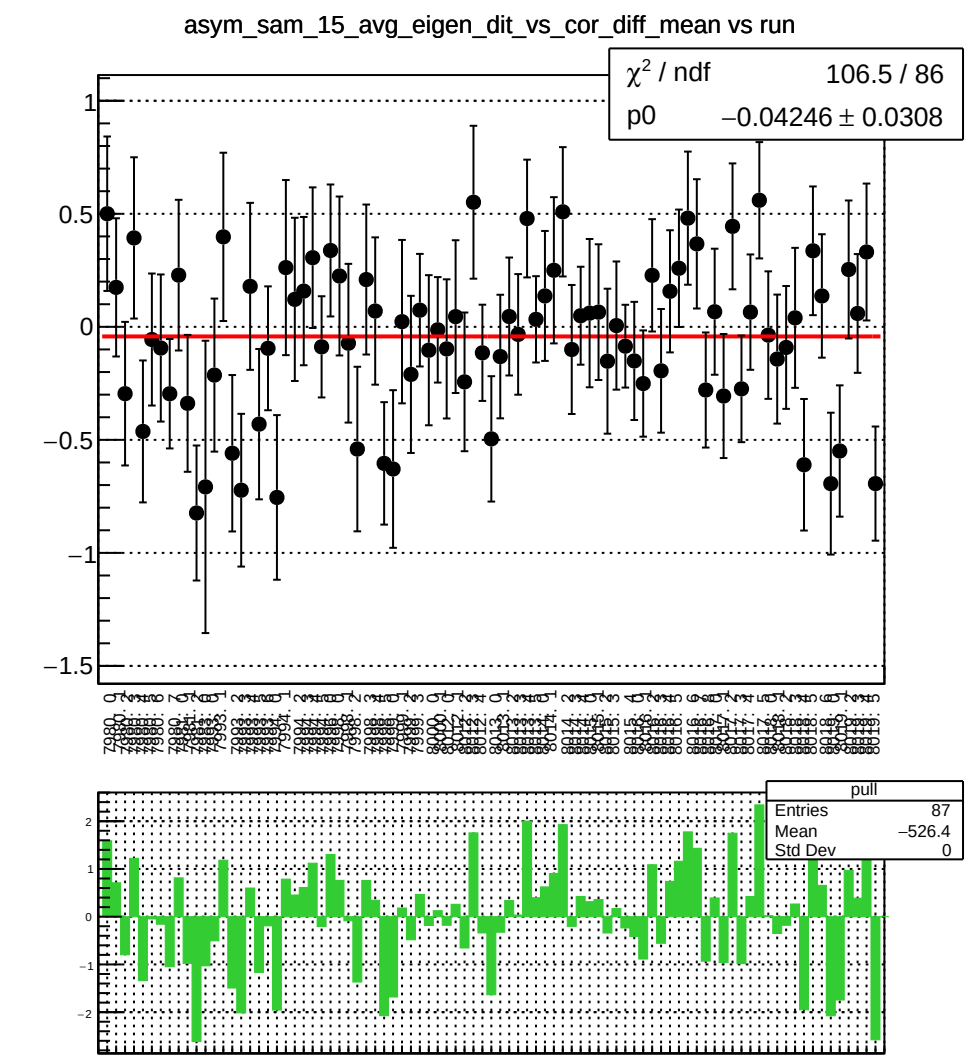

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.5 / 86
p0 −0.04246 ± 0.0308
pull
Entries 87
Mean −526.8
Std Dev 0

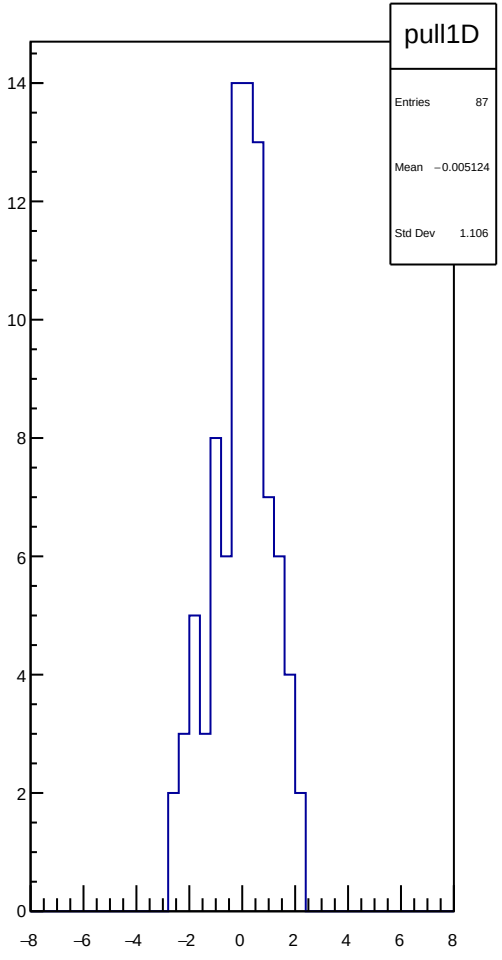

pull1D
Entries 87
Mean −0.00512
Std Dev 1.106

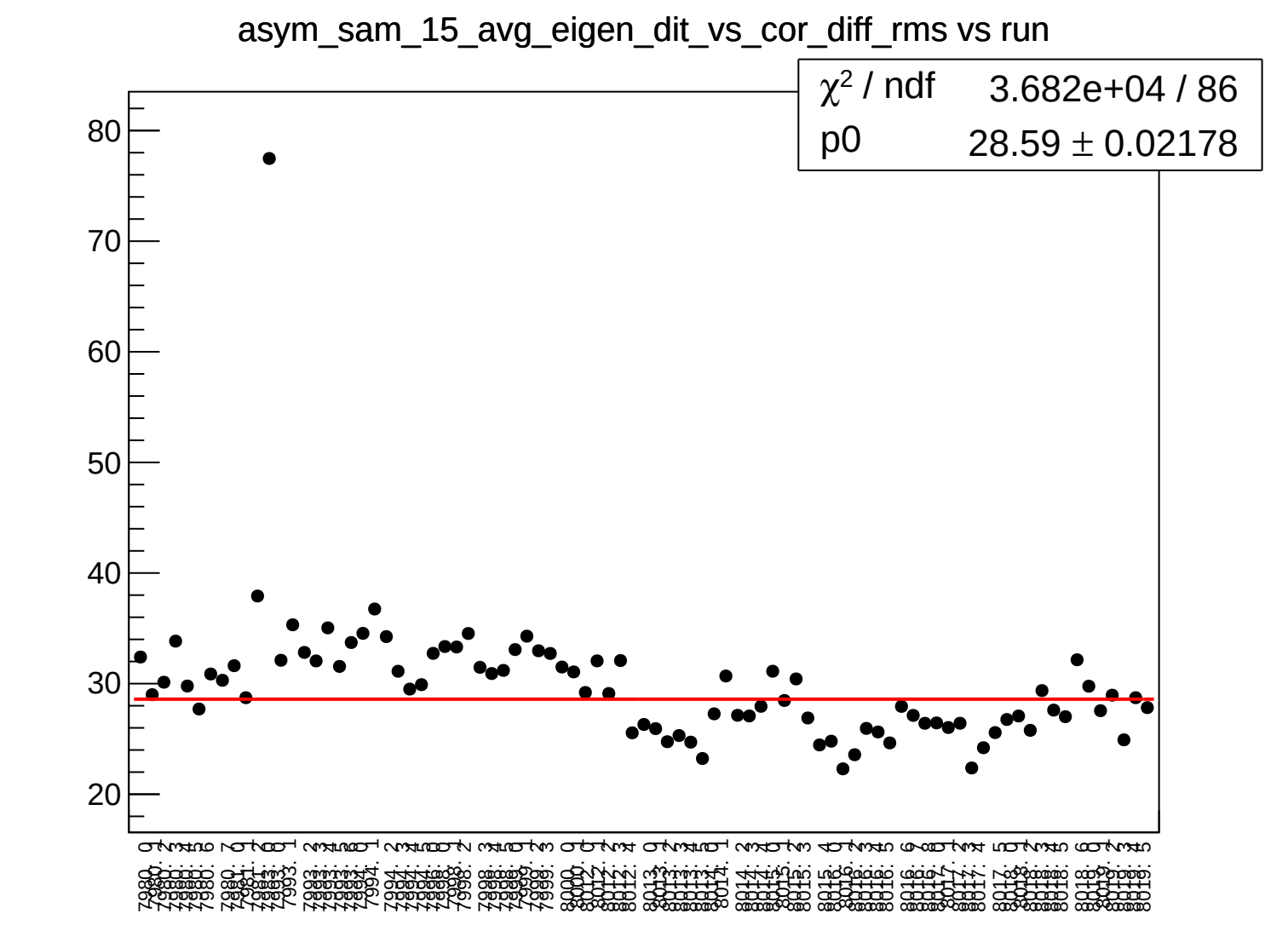

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.682e+04 / 86
p0 28.59 ± 0.02178
80
70
60
50
40
30
20

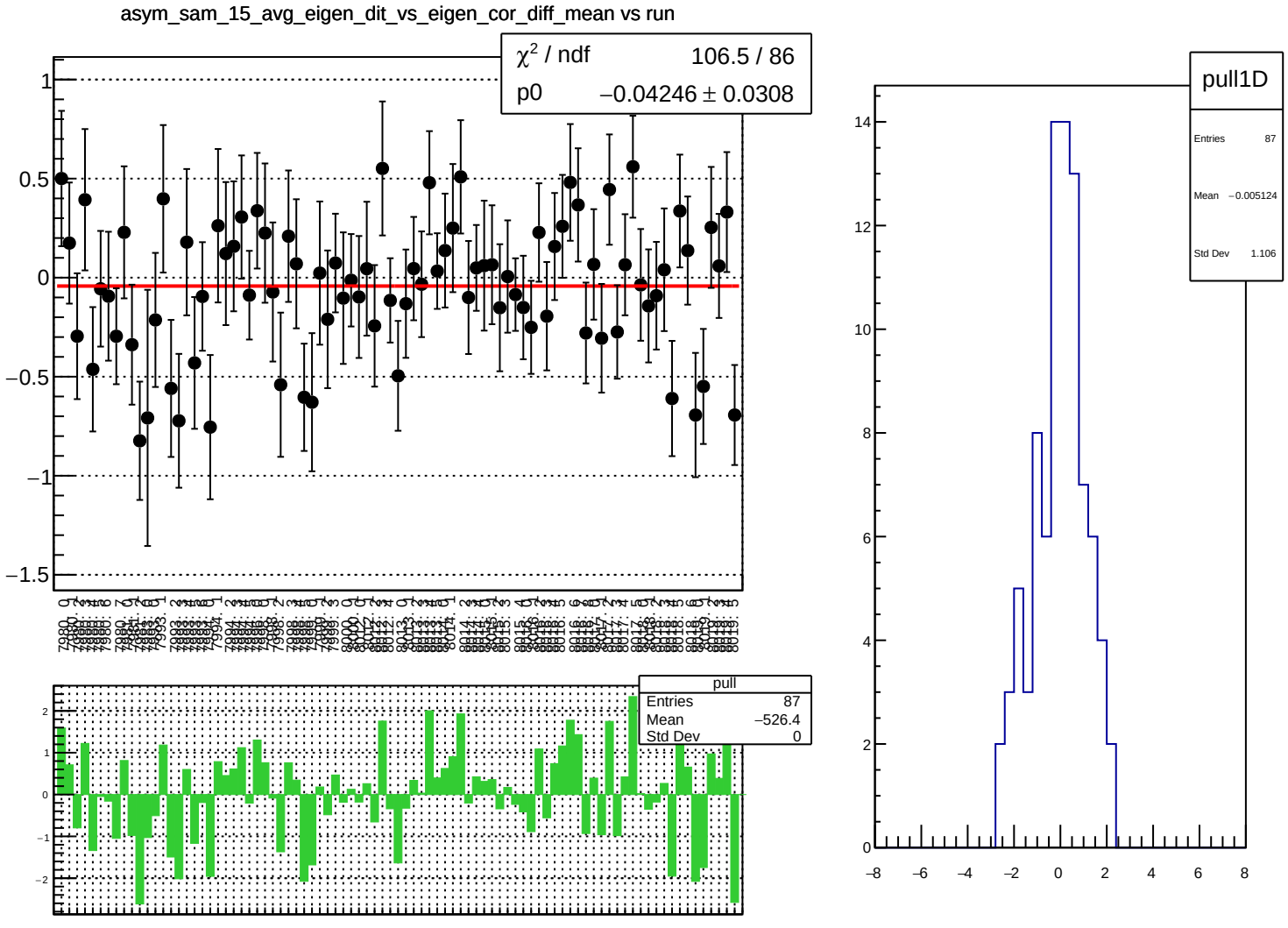

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 119.1 / 86
p0 −1.335e−06 ± 1.716e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 87
Mean 69.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.01127
Std Dev 1.17
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

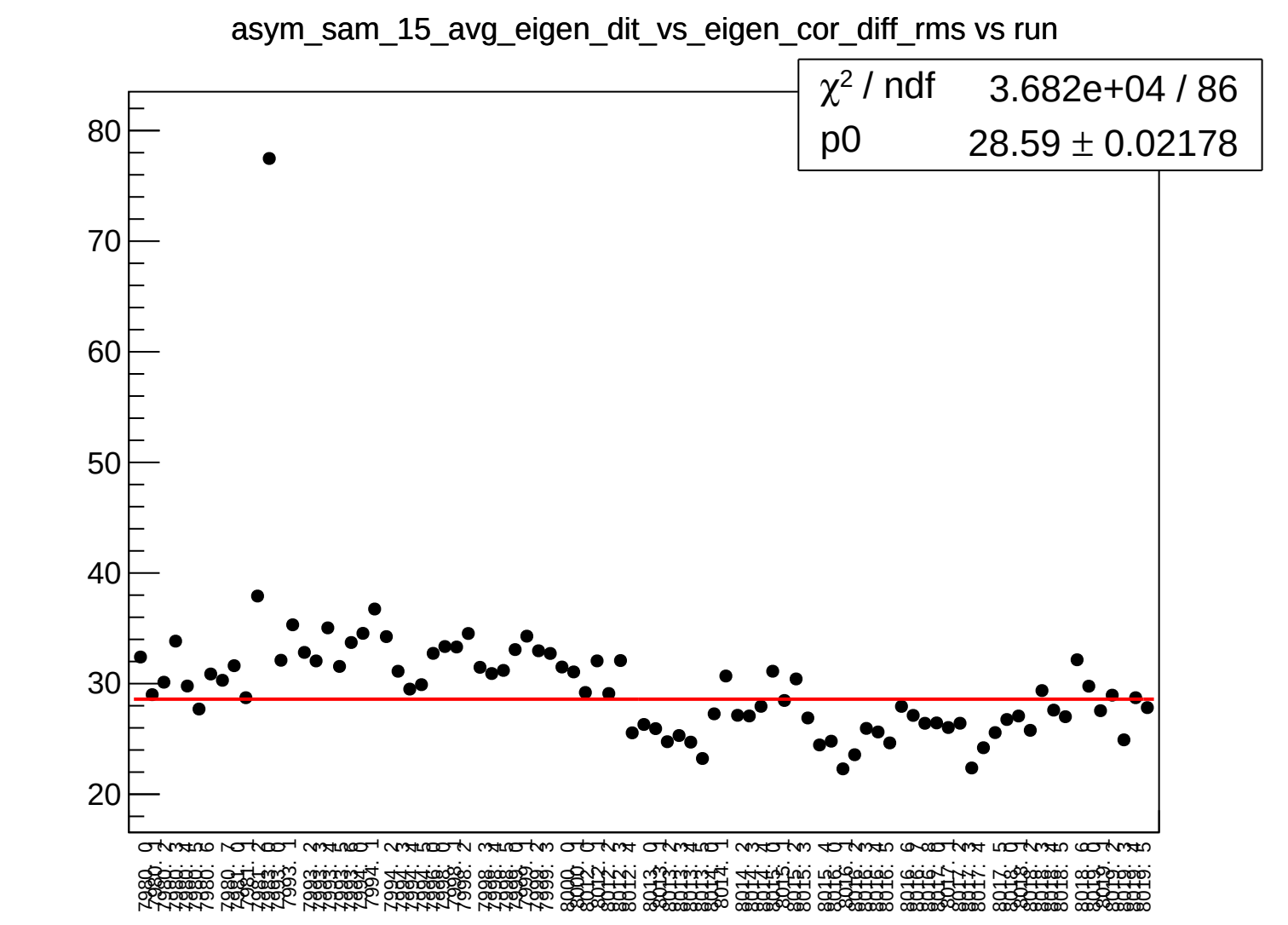

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.925e+04 / 86
p0 0.001574 ± 1.214e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

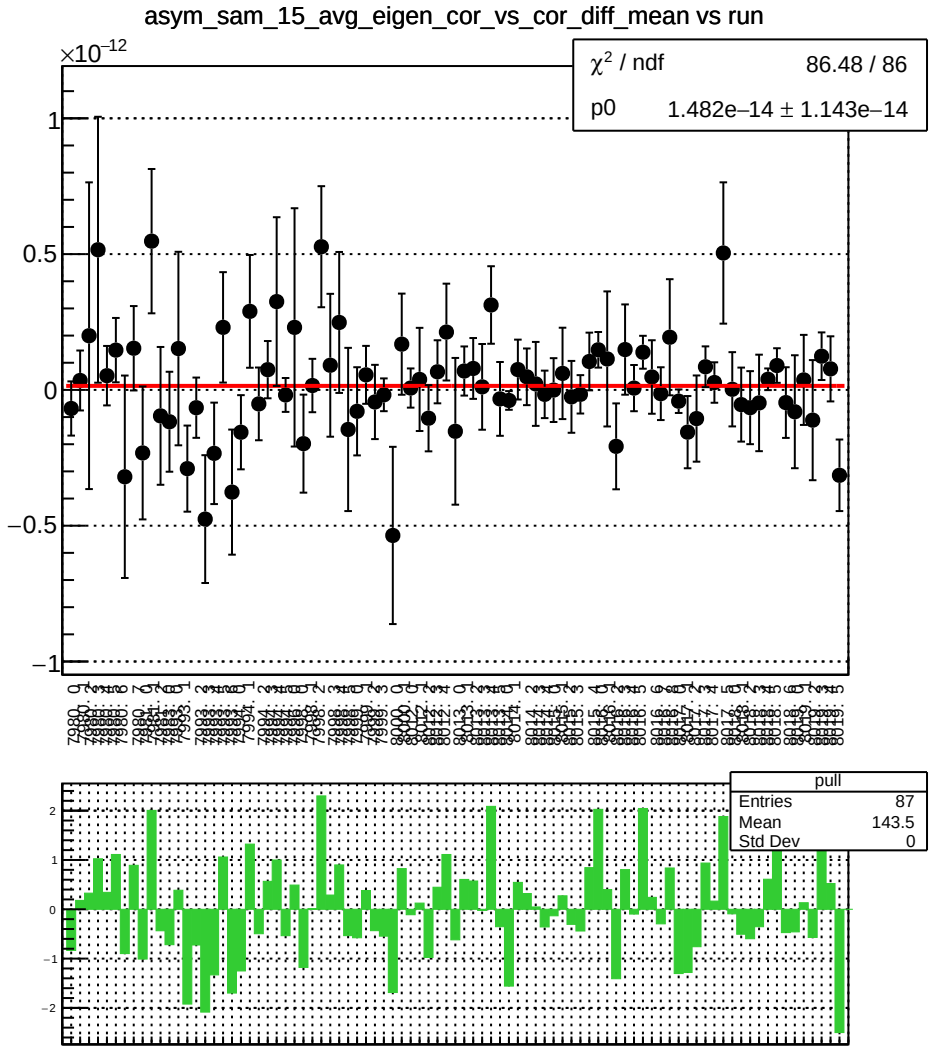

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.5 / 86
p0 −0.04246 ± 0.0308
pull
Entries 87
Mean −526.4
Std Dev 0

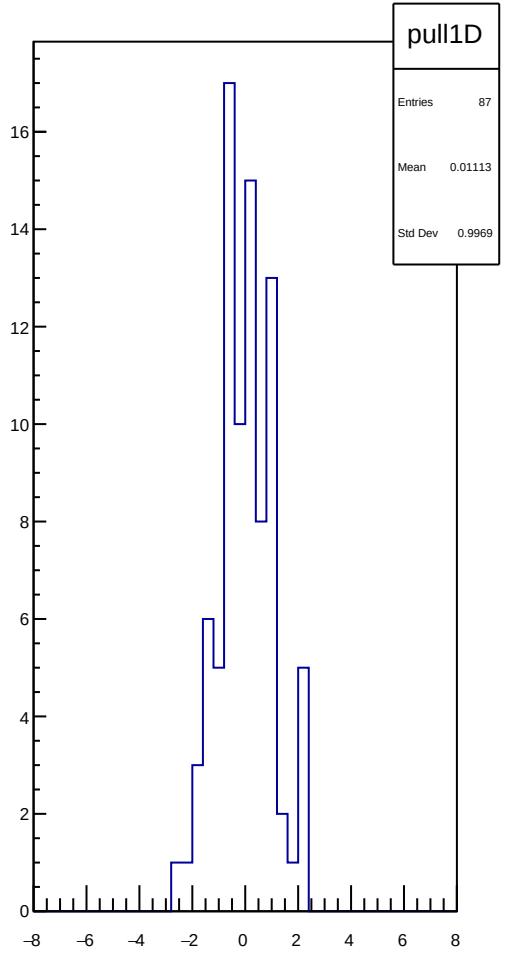

pull1D
Entries 87
Mean −0.005124
Std Dev 1.106

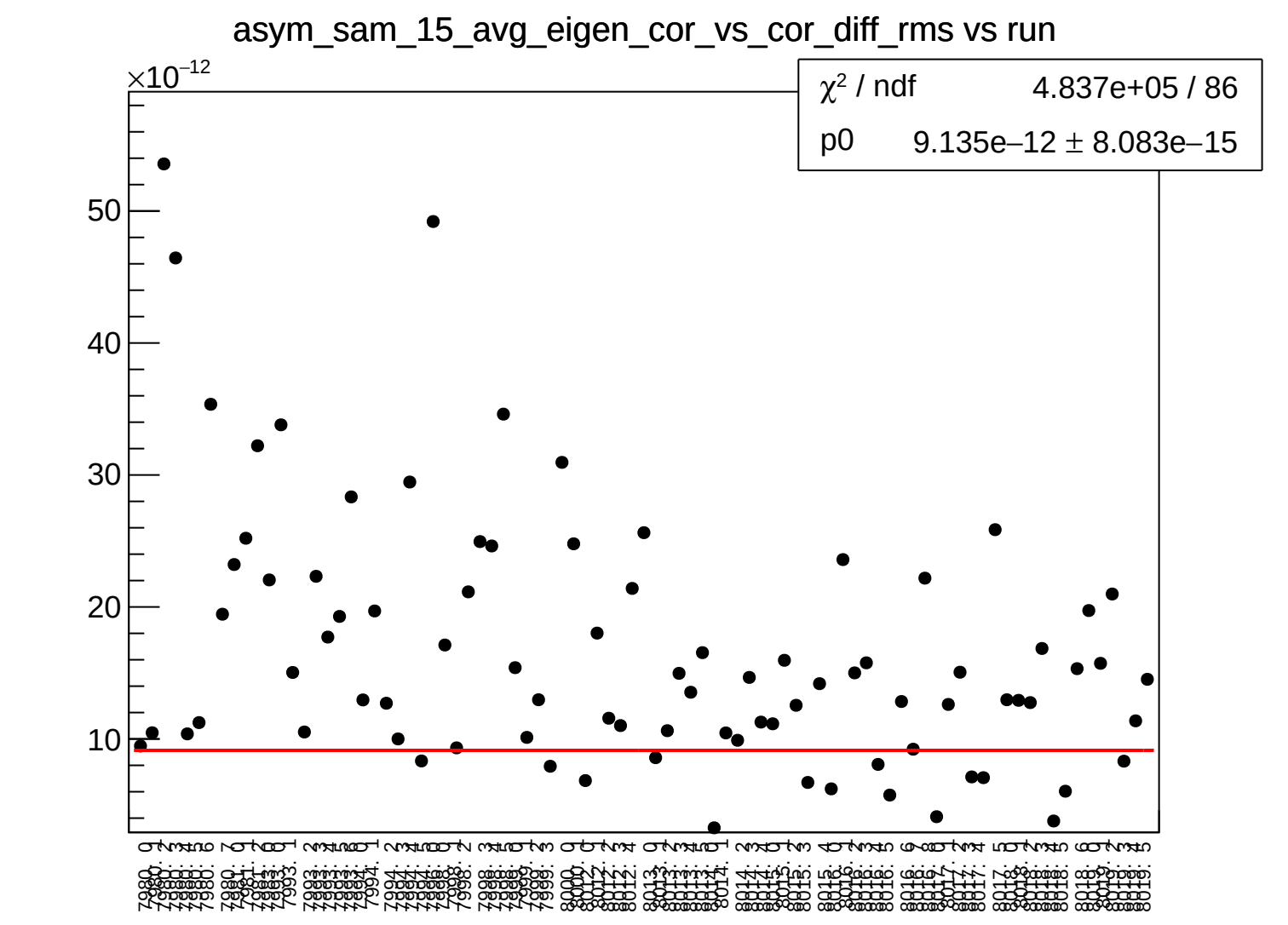

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.682e+04 / 86
p0 28.59 ± 0.02178
80
70
60
50
40
30
20

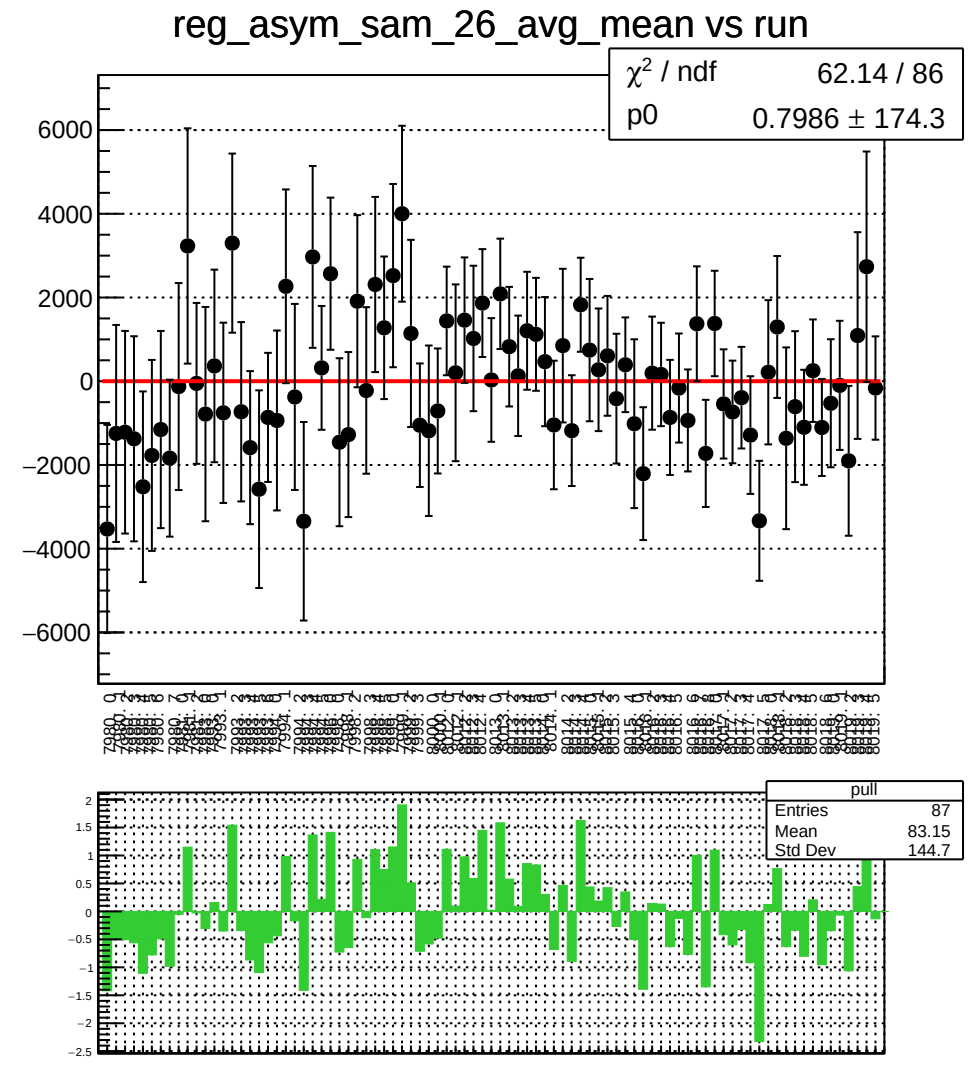

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.5 / 86
p0 −0.04246 ± 0.0308
pull
Entries 87
Mean −526.4
Std Dev 0
pull1D
Entries 87
Mean −0.005124
Std Dev 1.106

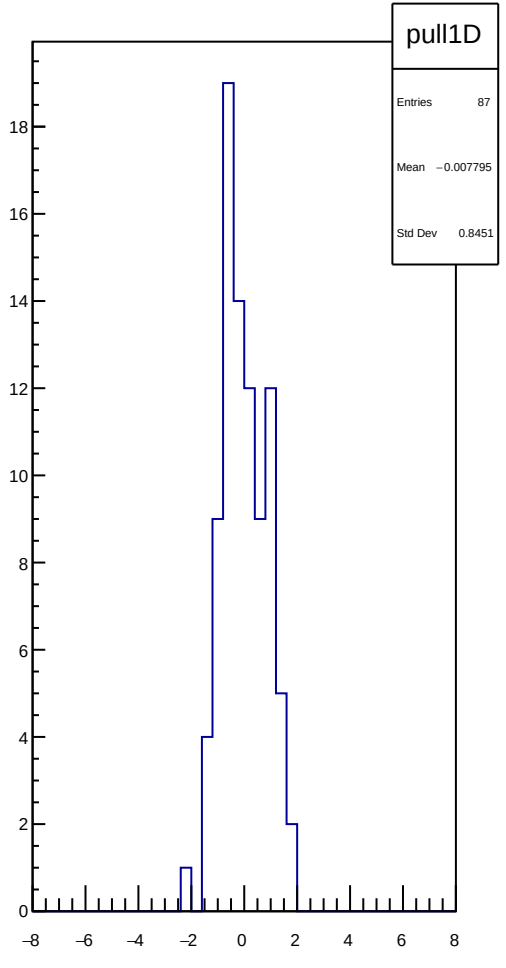

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.682e+04 / 86
p0 28.59 ± 0.02178
80
70
60
50
40
30
20

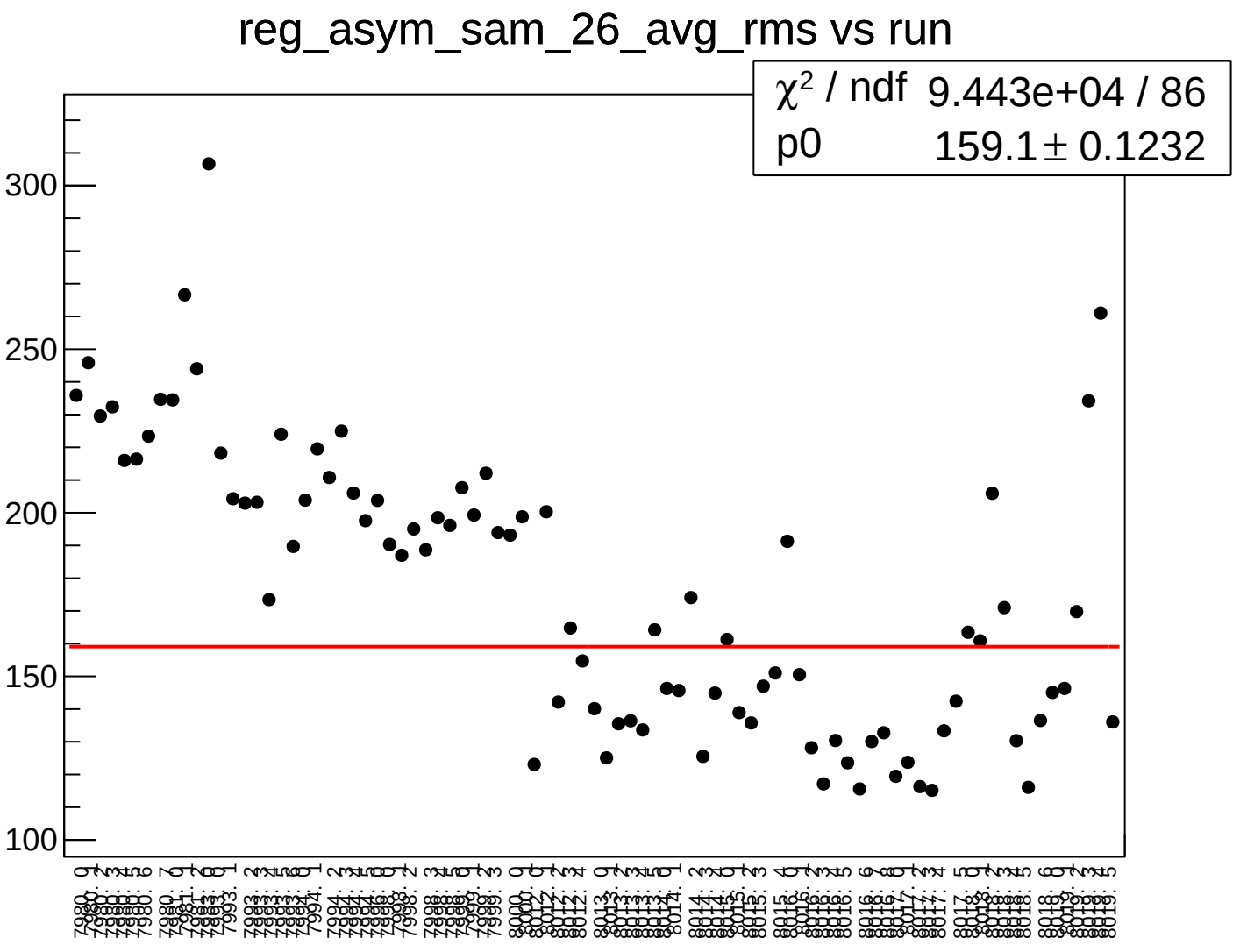

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.48 / 86
p0 1.482e−14 ± 1.143e−14
pull
Entries 87
Mean 143.5
Std Dev 0

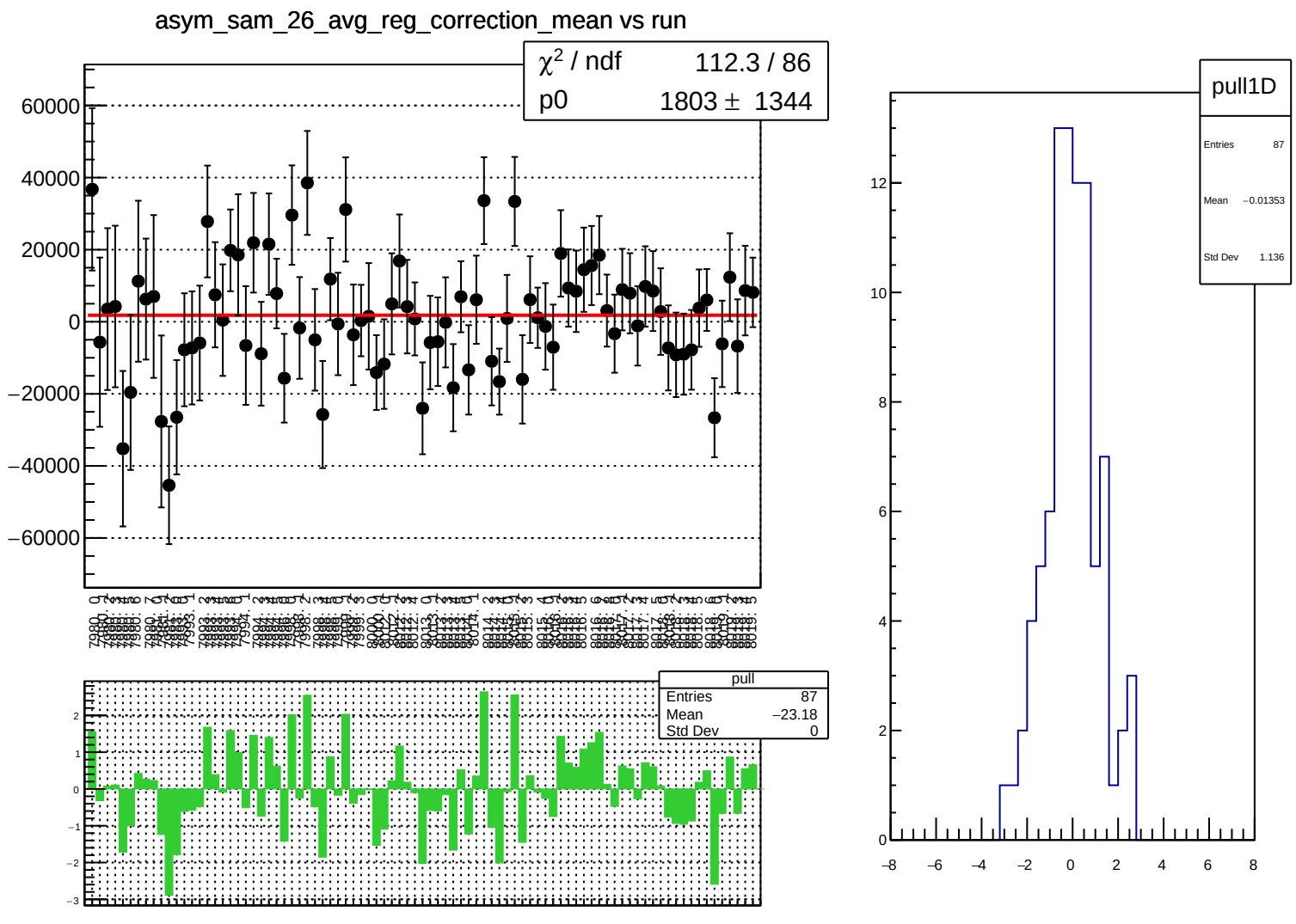

pull1D
Entries 87
Mean 0.01113
Std Dev 0.9969

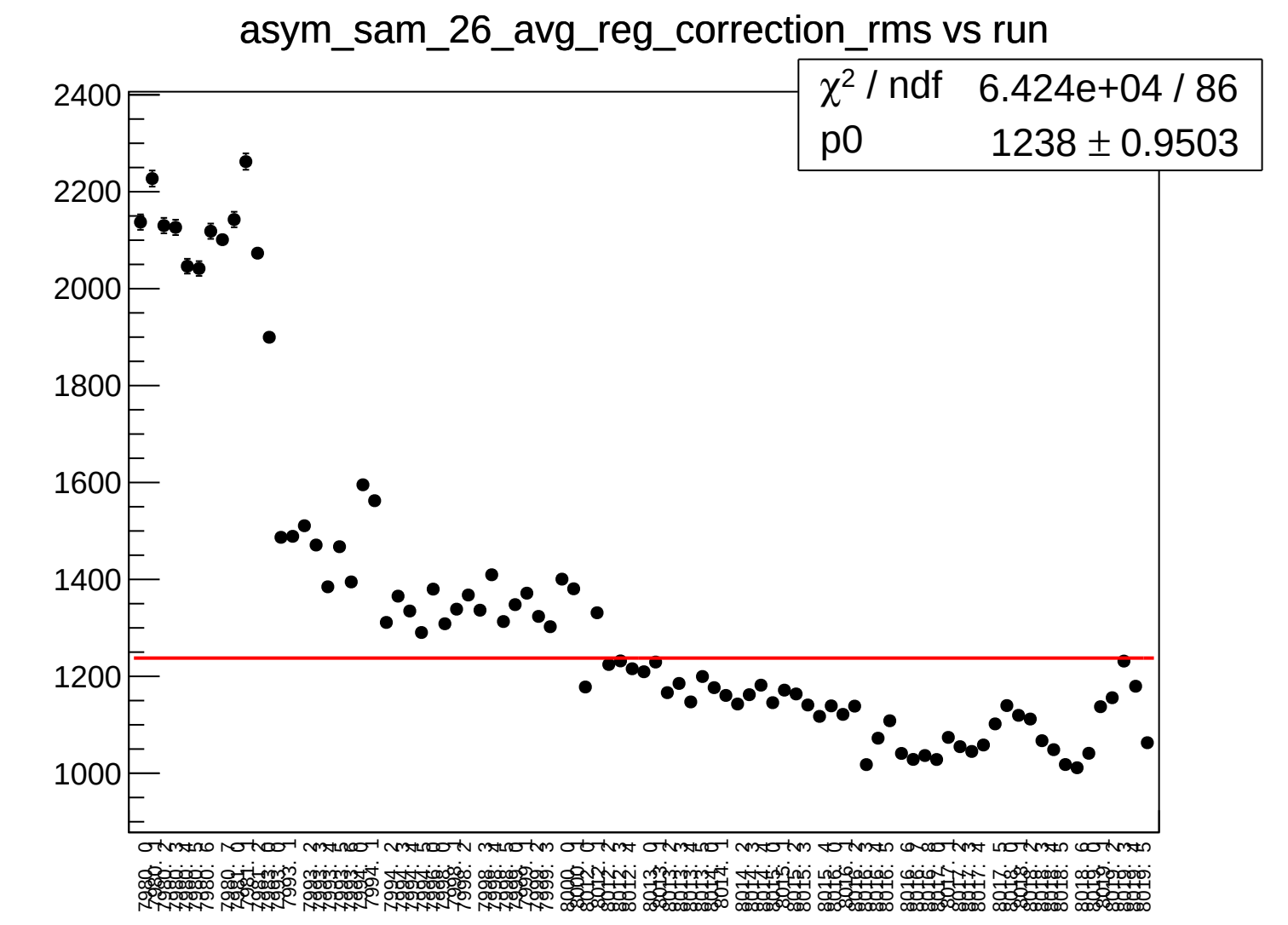

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.837e+05 / 86
p0 9.135e−12 ± 8.083e−15
50
40
30
20
10

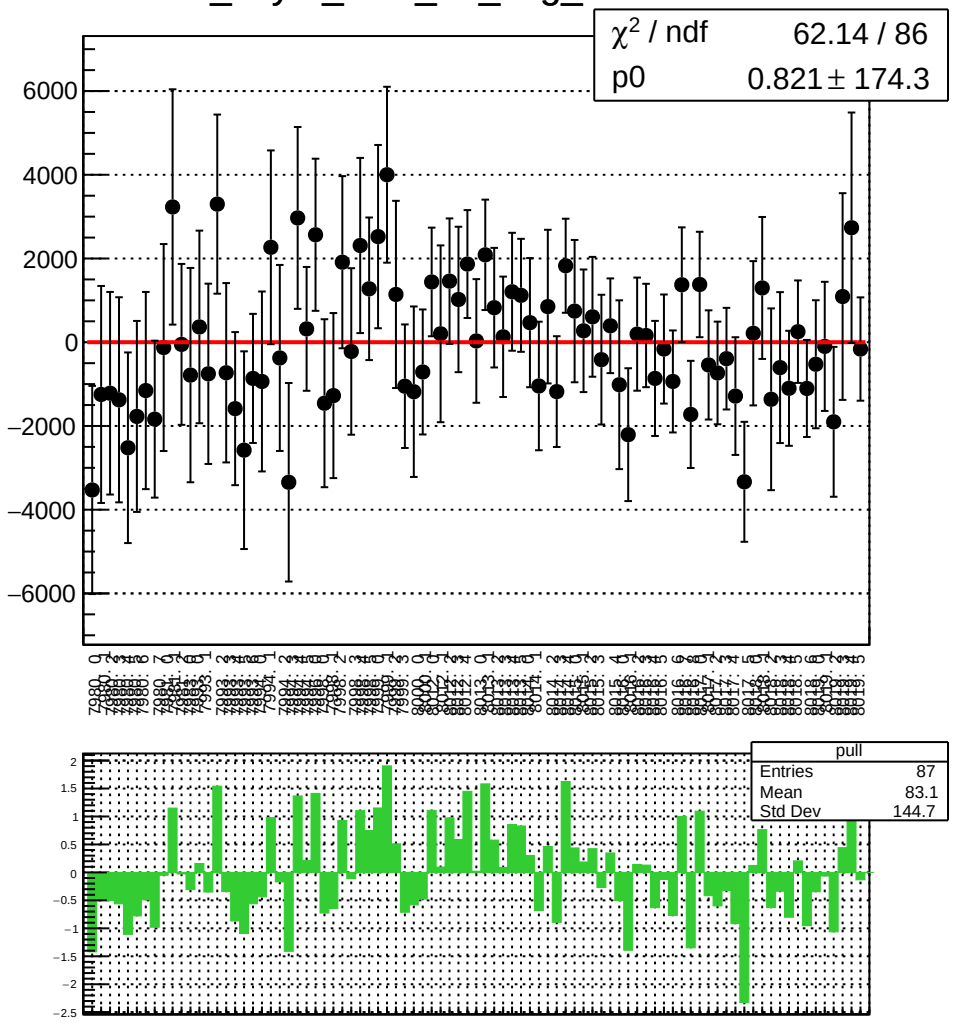

reg_asym_sam_26_avg_mean vs run
χ² / ndf 62.14 / 86
p0 0.7986 ± 174.3
pull
Entries 87
Mean 83.15
Std Dev 144.7

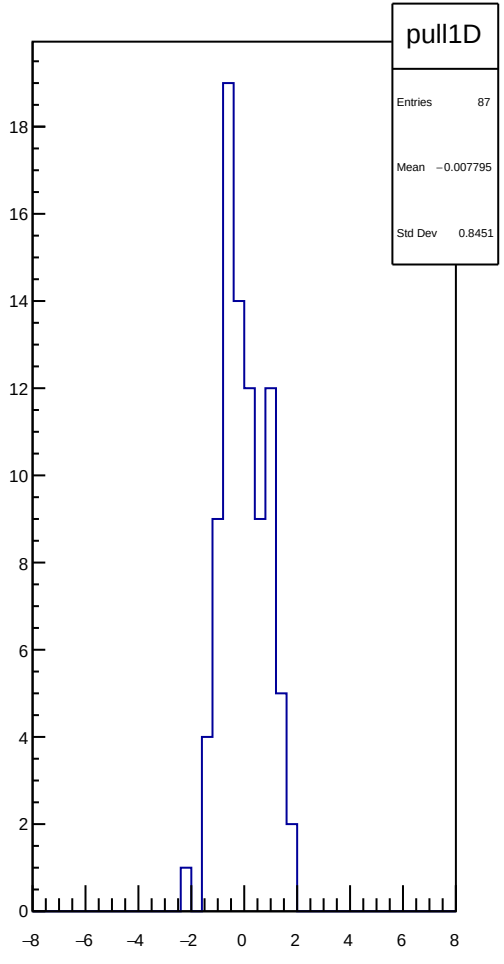

pull1D
Entries 87
Mean −0.007795
Std Dev 0.8451

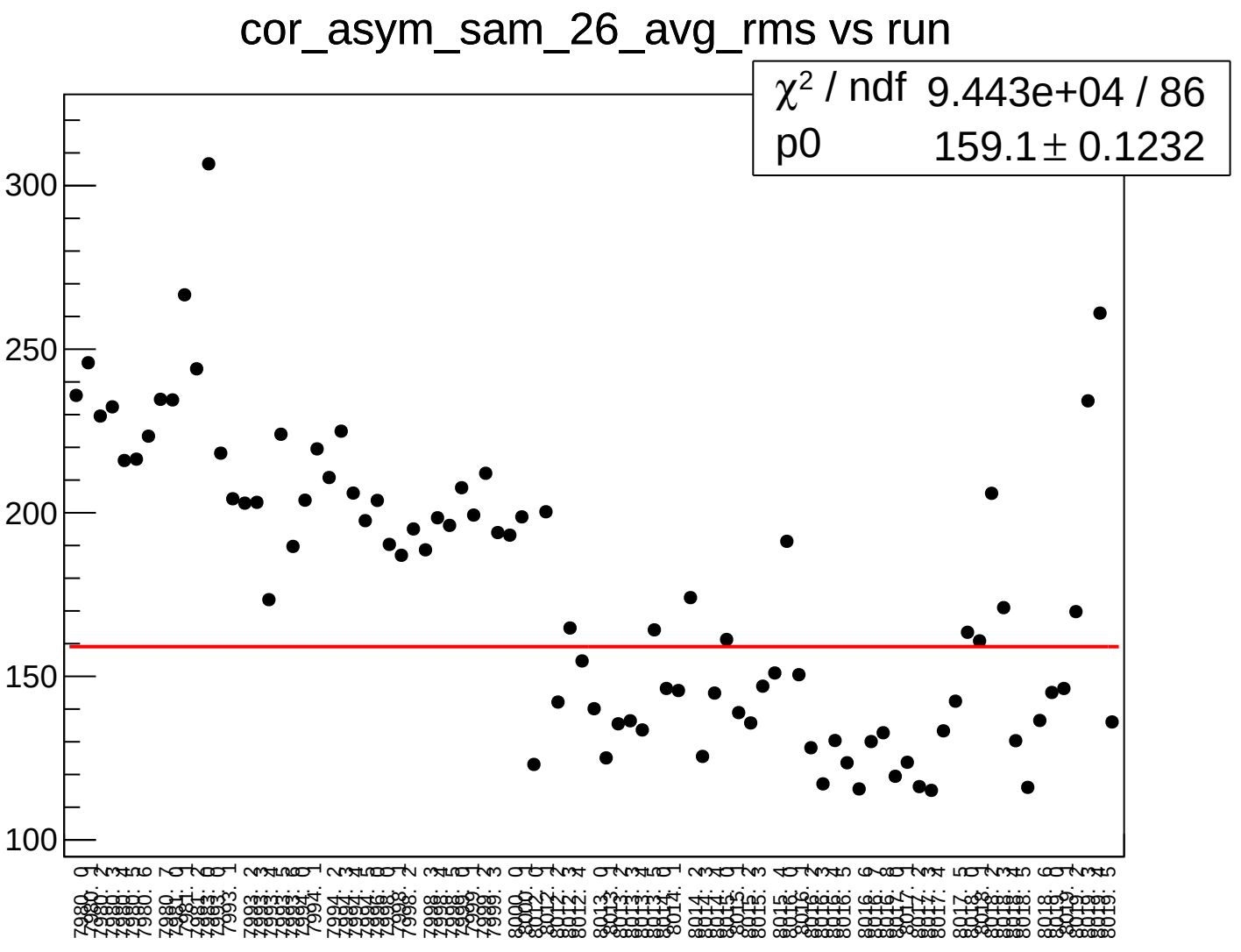

reg_asym_sam_26_avg_rms vs run
χ² / ndf 9.443e+04 / 86
p0 159.1 ± 0.1232
300
250
200
150
100

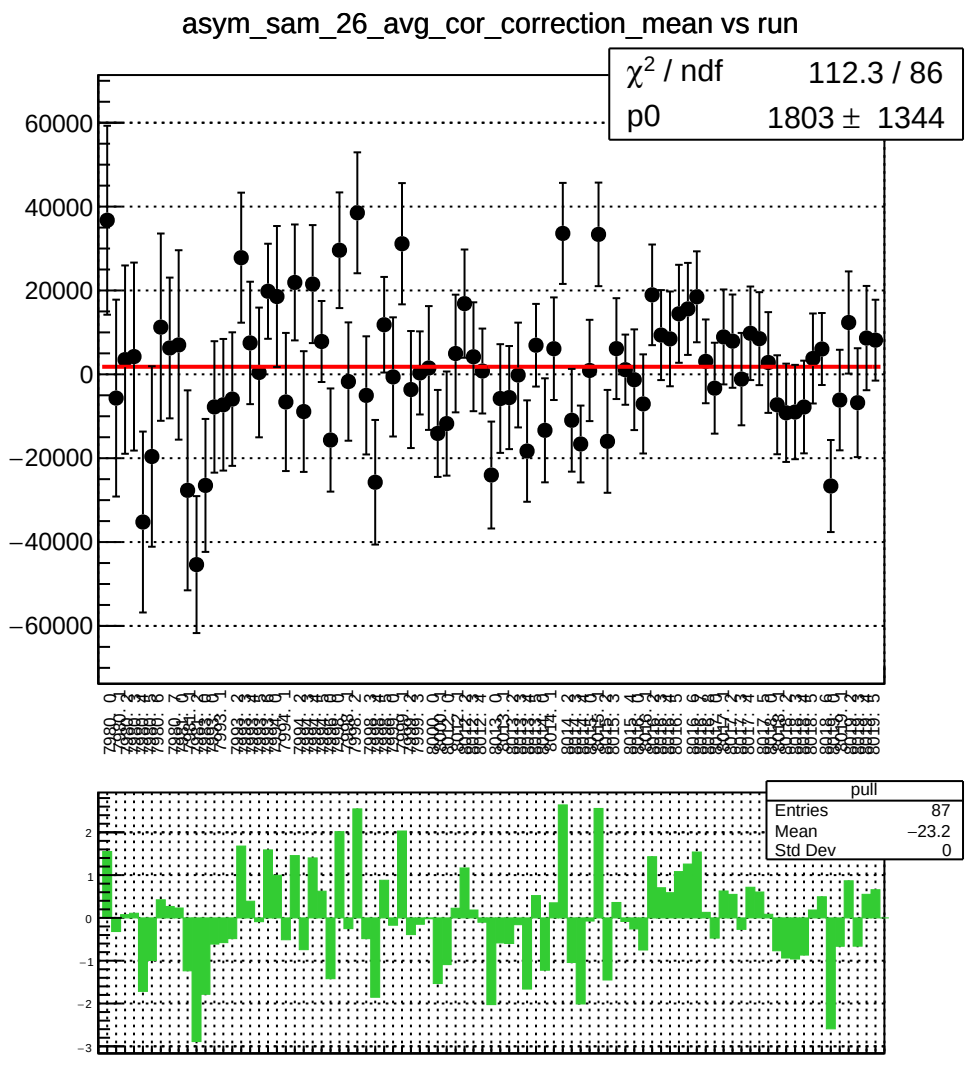

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 112.3 / 86
p0 1803 ± 1344
pull
Entries 87
Mean −23.18
Std Dev 0
pull1D
Entries 87
Mean −0.01353
Std Dev 1.136

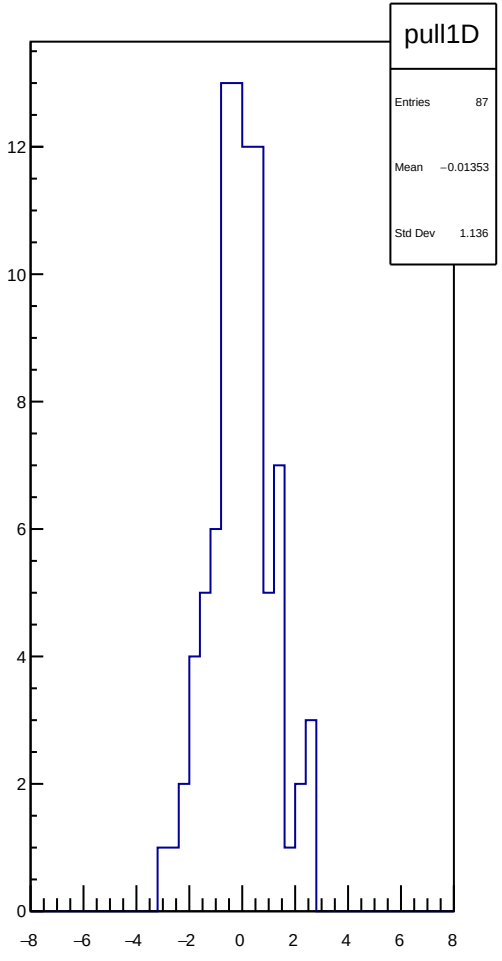

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 6.424e+04 / 86
p0 1238 ± 0.9503
2400
2200
2000
1800
1600
1400
1200
1000

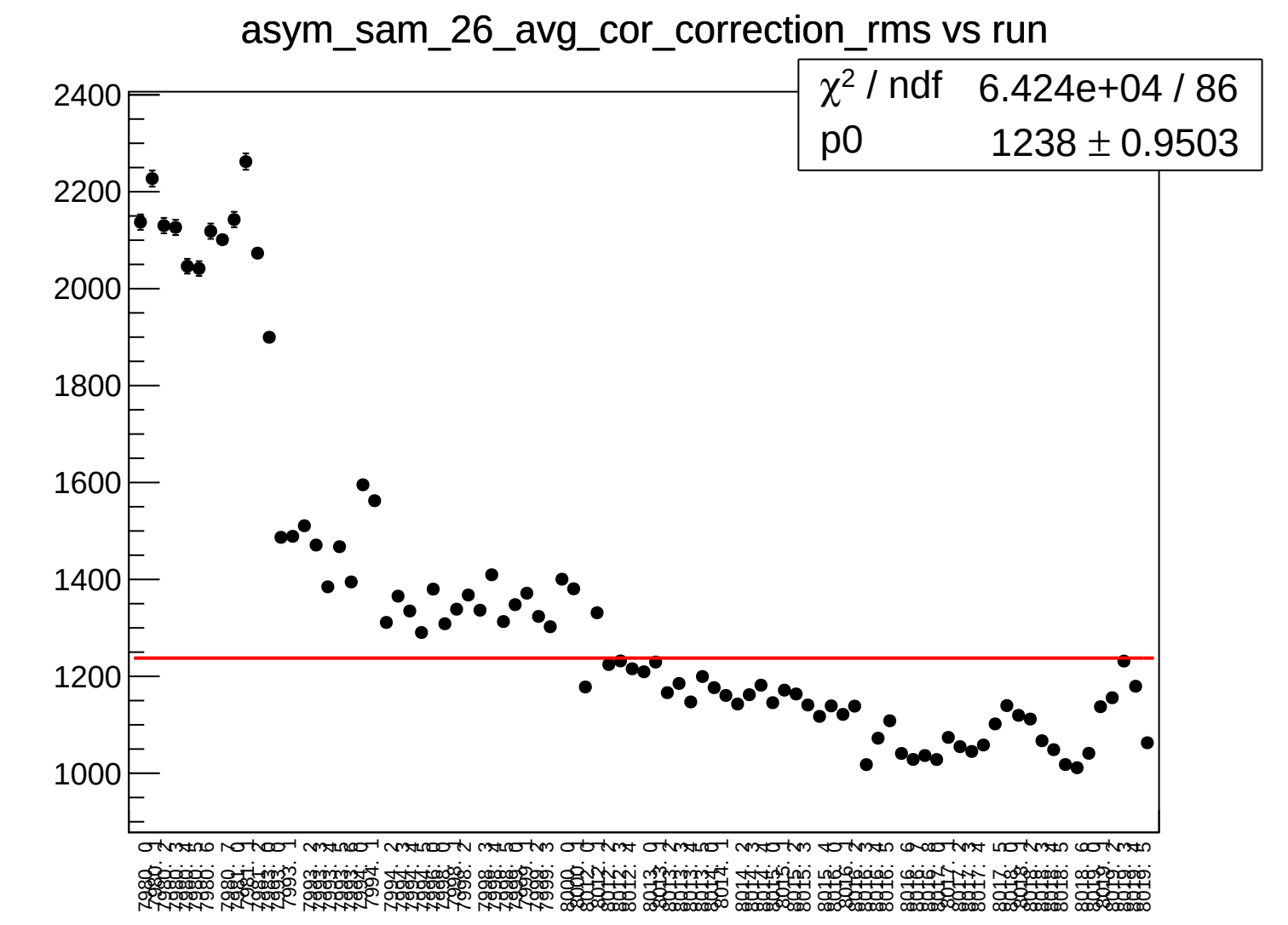

cor_asym_sam_26_avg_mean vs run
χ² / ndf 62.14 / 86
p0 0.821 ± 174.3
pull
Entries 87
Mean 83.1
Std Dev 144.7

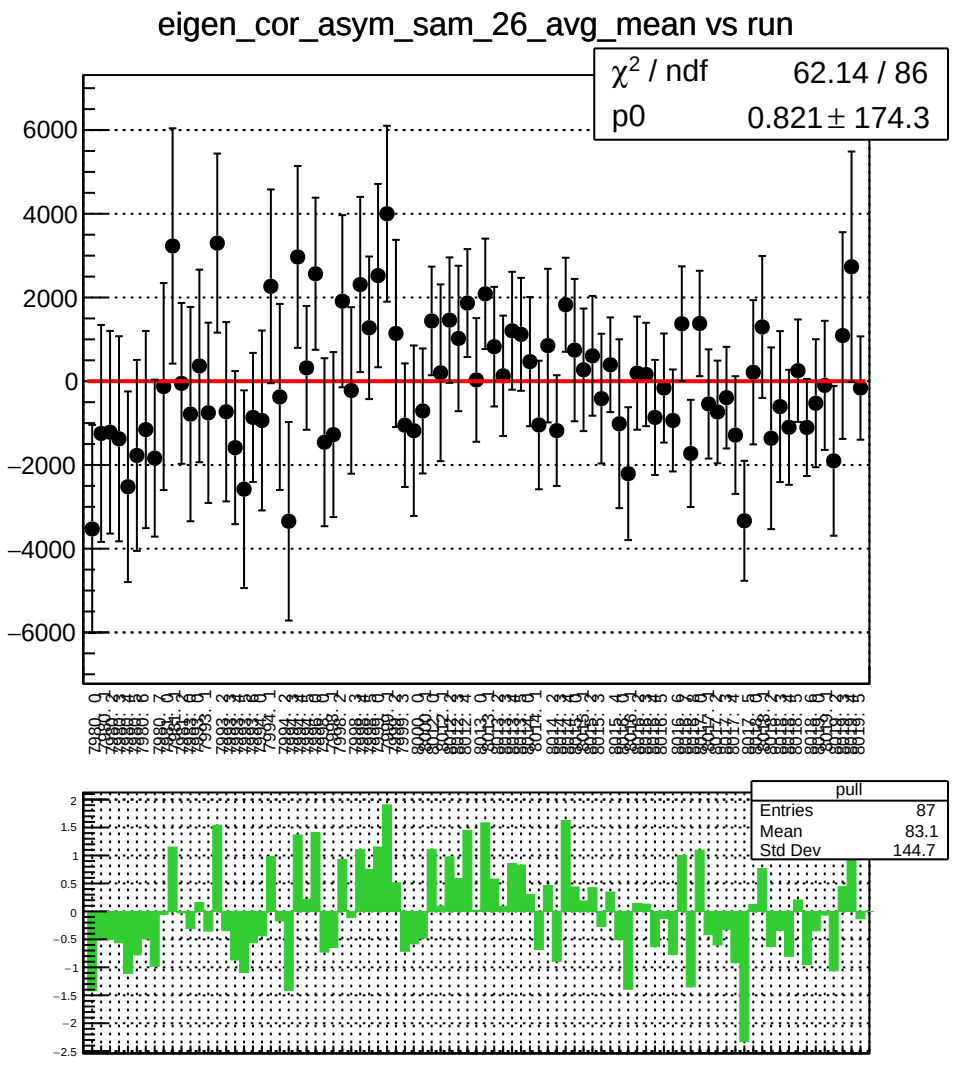

pull1D
Entries 87
Mean −0.007795
Std Dev 0.8451

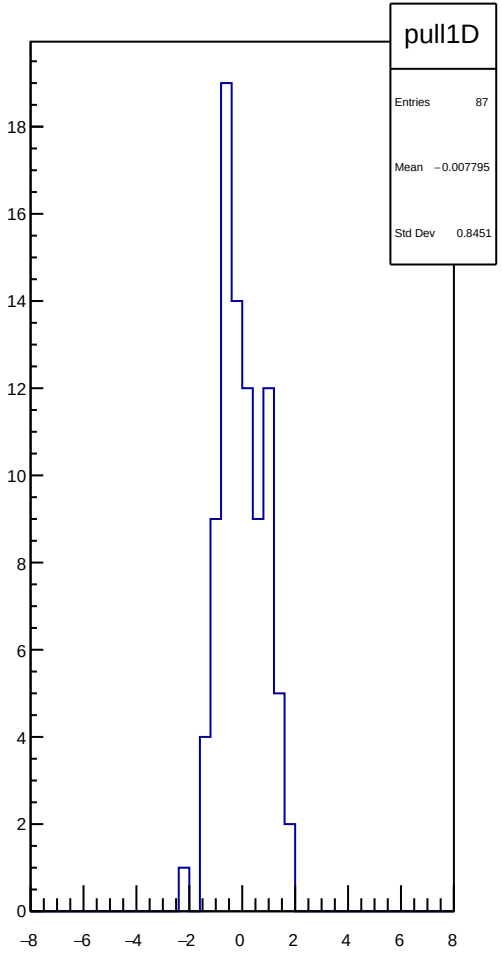

cor_asym_sam_26_avg_rms vs run
χ² / ndf 9.443e+04 / 86
p0 159.1 ± 0.1232
300
250
200
150
100

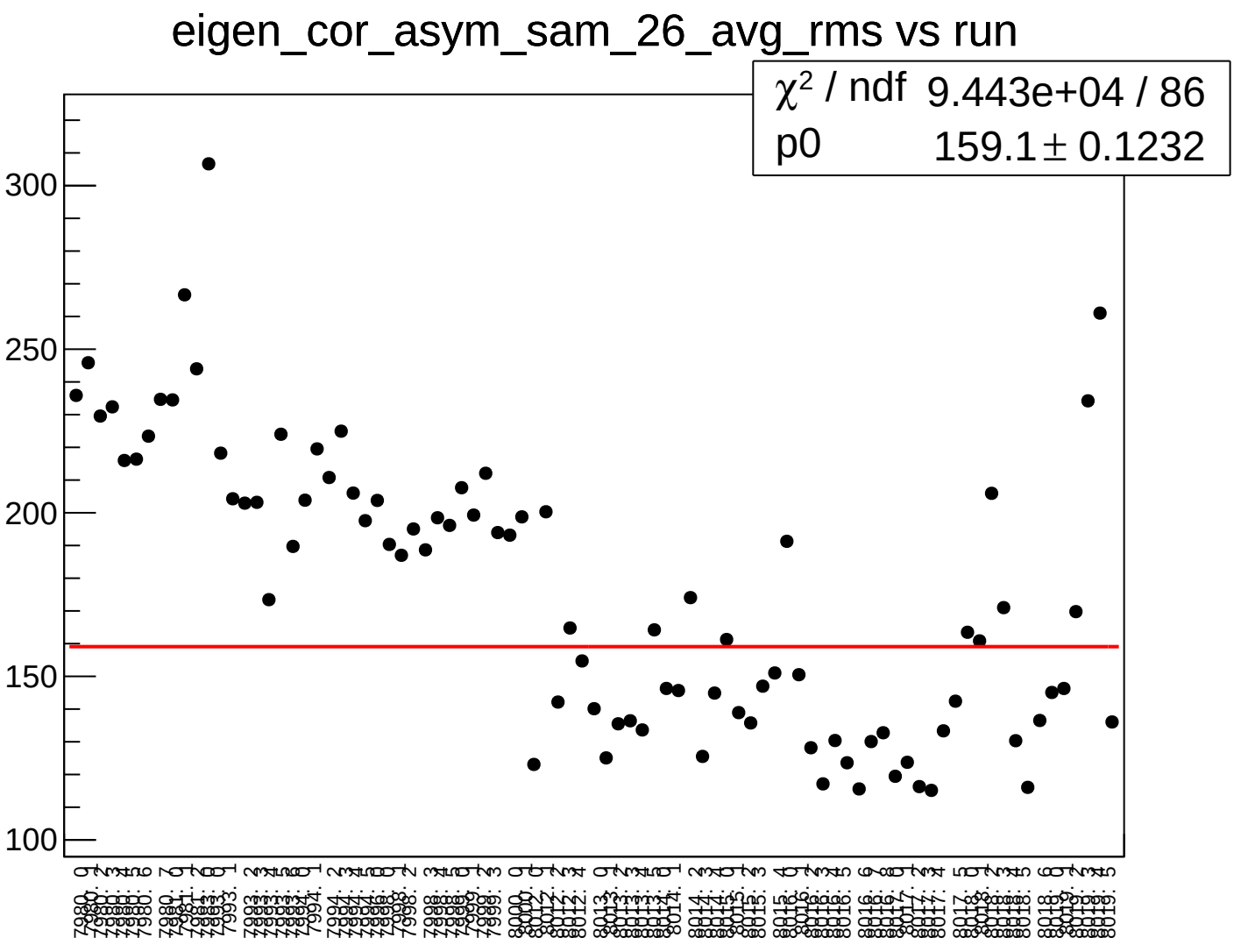

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 112.3 / 86
p0 1803 ± 1344
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −23.2
Std Dev 0
2
1
0
−1
−2
−3

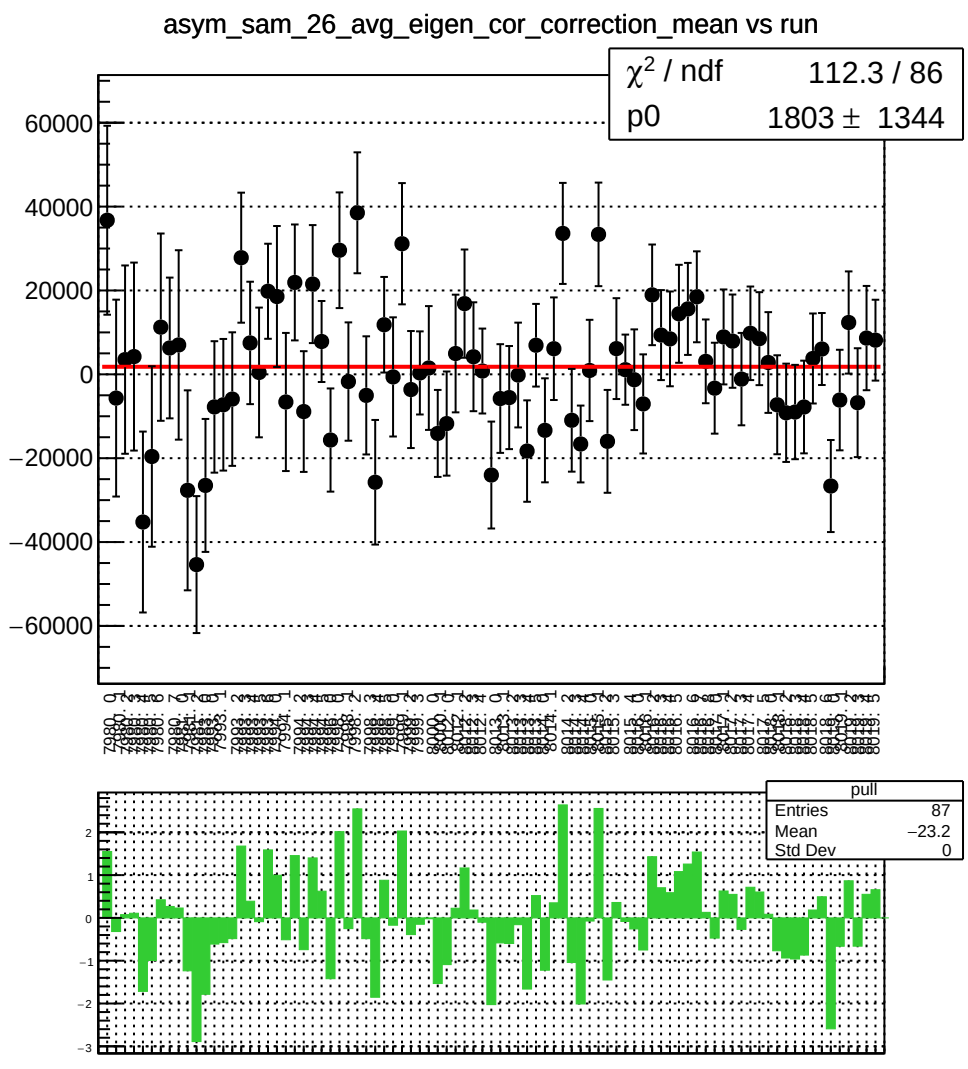

pull1D
Entries 87
Mean −0.01353
Std Dev 1.136
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

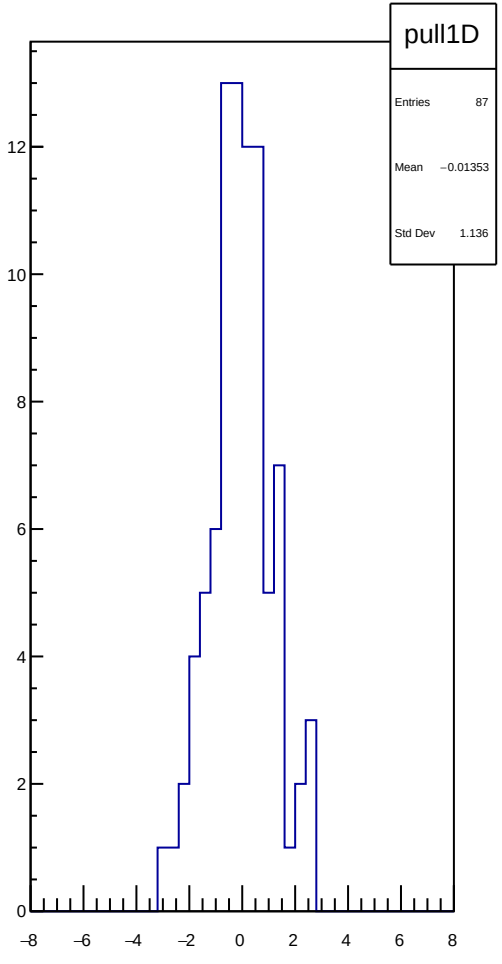

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 6.424e+04 / 86
p0 1238 ± 0.9503
2400
2200
2000
1800
1600
1400
1200
1000

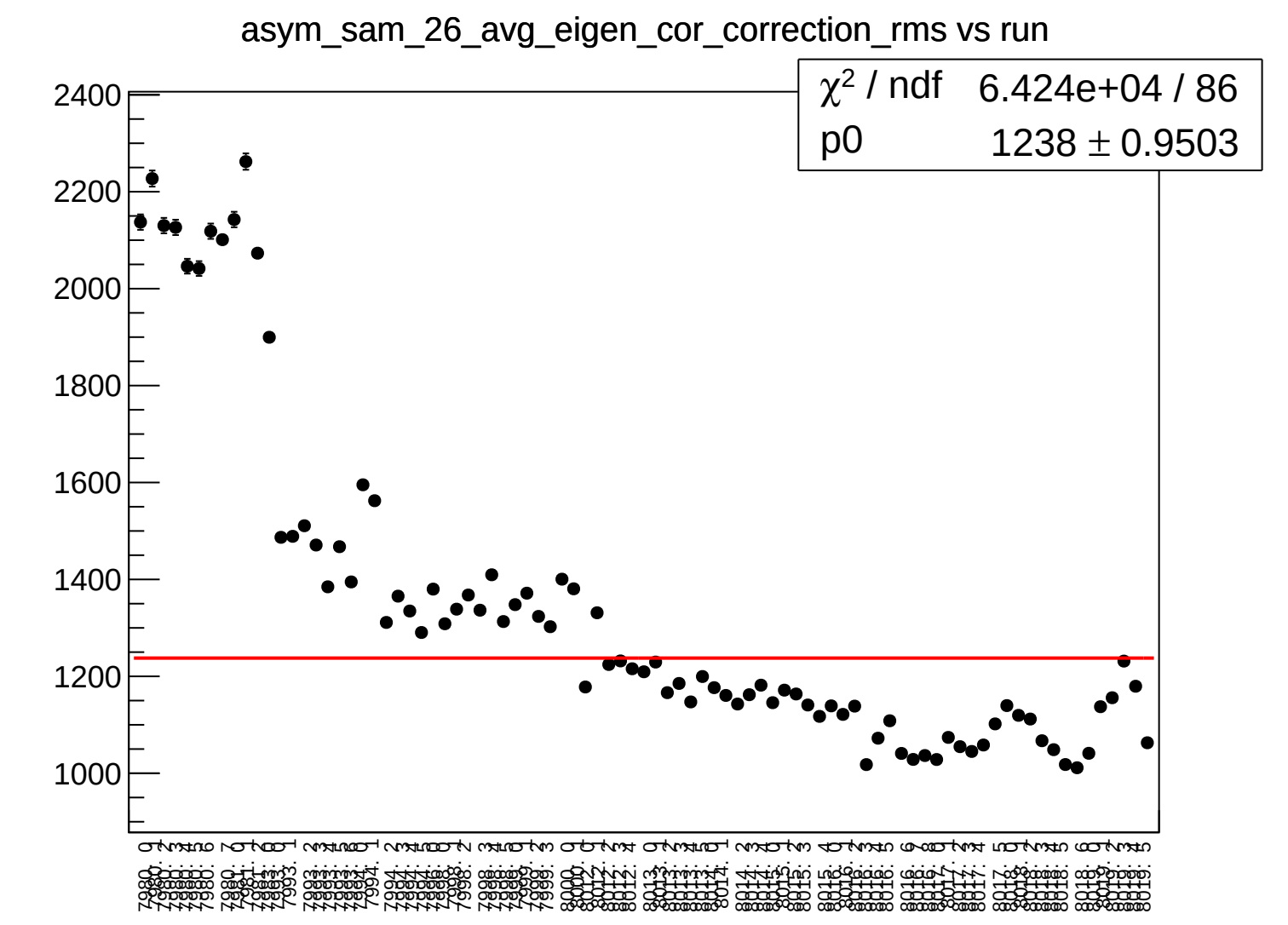

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 62.14 / 86
p0 0.821 ± 174.3
pull
Entries 87
Mean 83.1
Std Dev 144.7

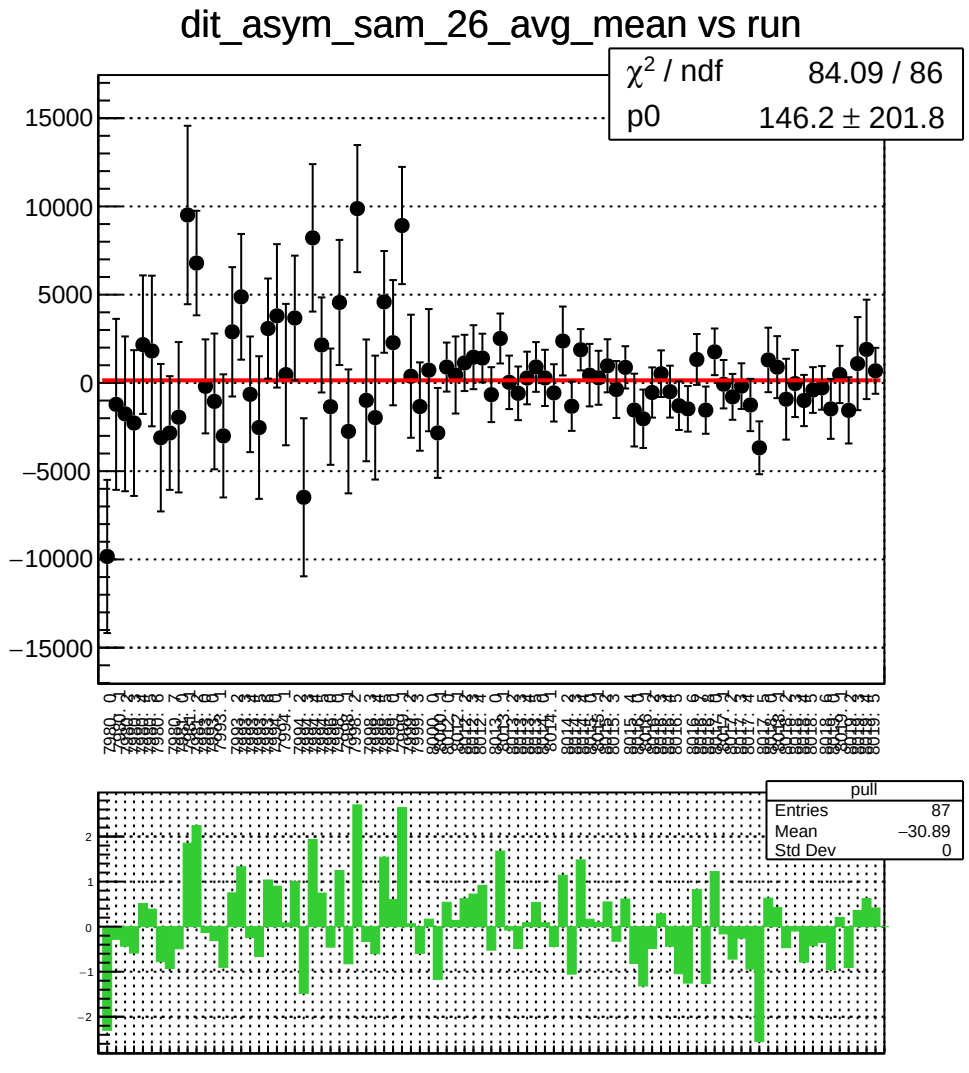

pull1D
Entries 87
Mean −0.007795
Std Dev 0.8451

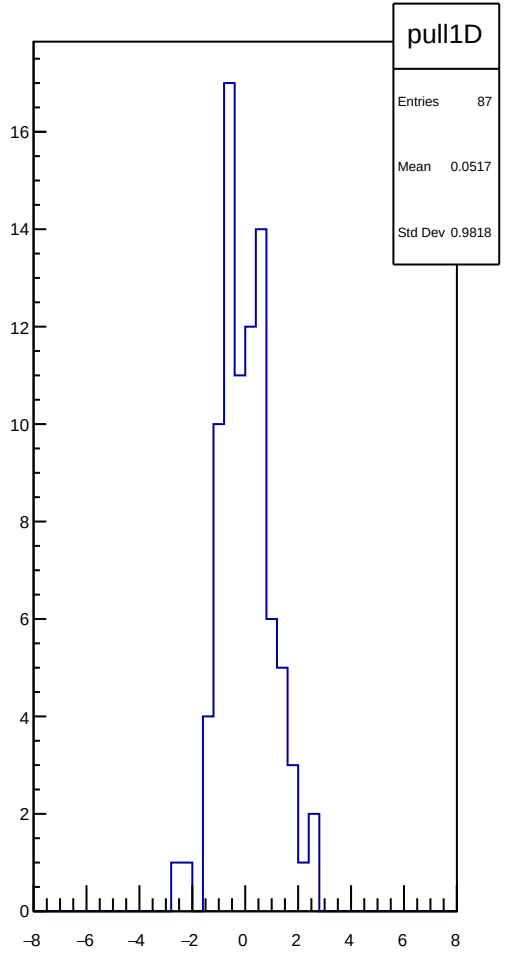

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 9.443e+04 / 86
p0 159.1 ± 0.1232
300
250
200
150
100

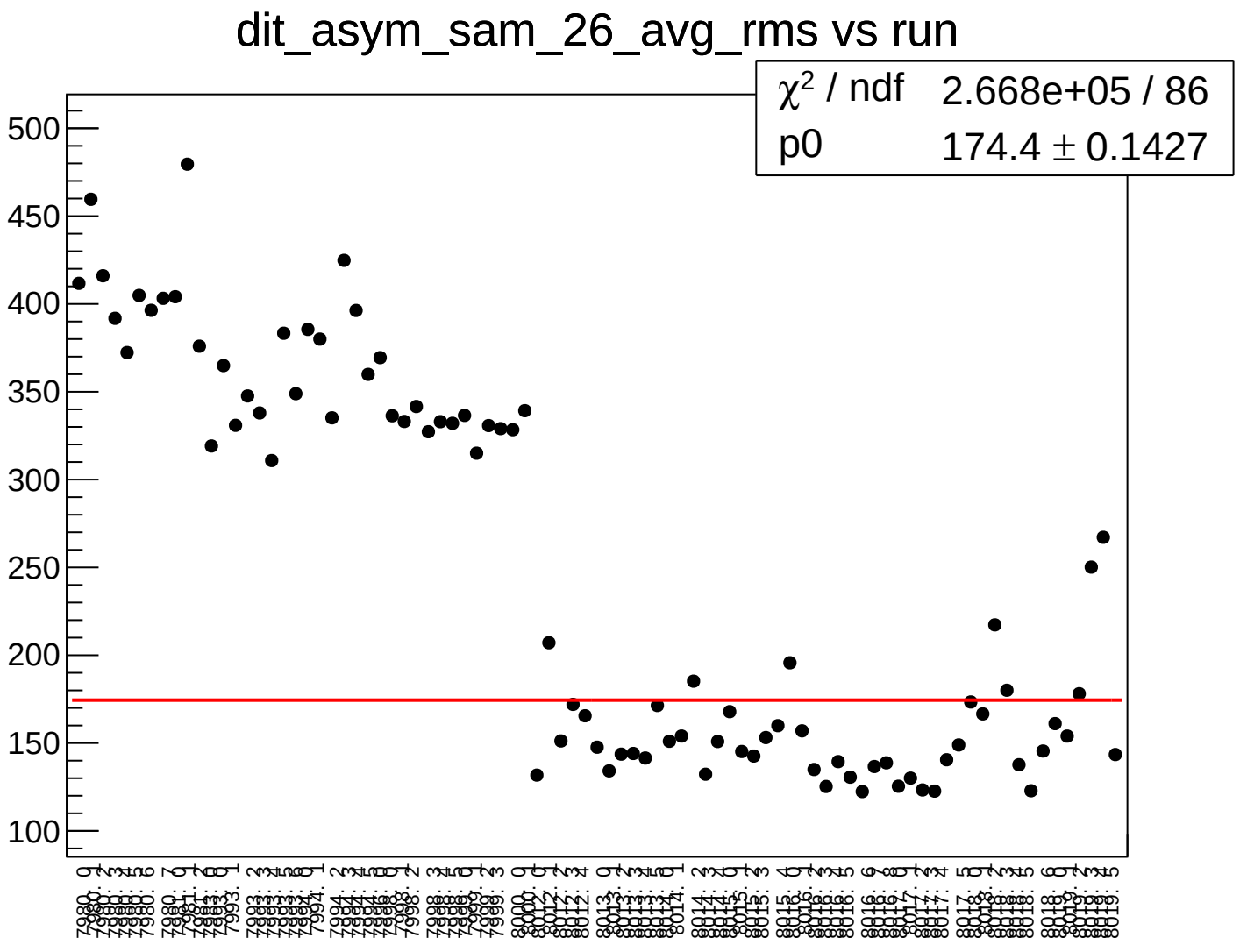

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 112.3 / 86
p0 1803 ± 1344
pull
Entries 87
Mean −23.2
Std Dev 0

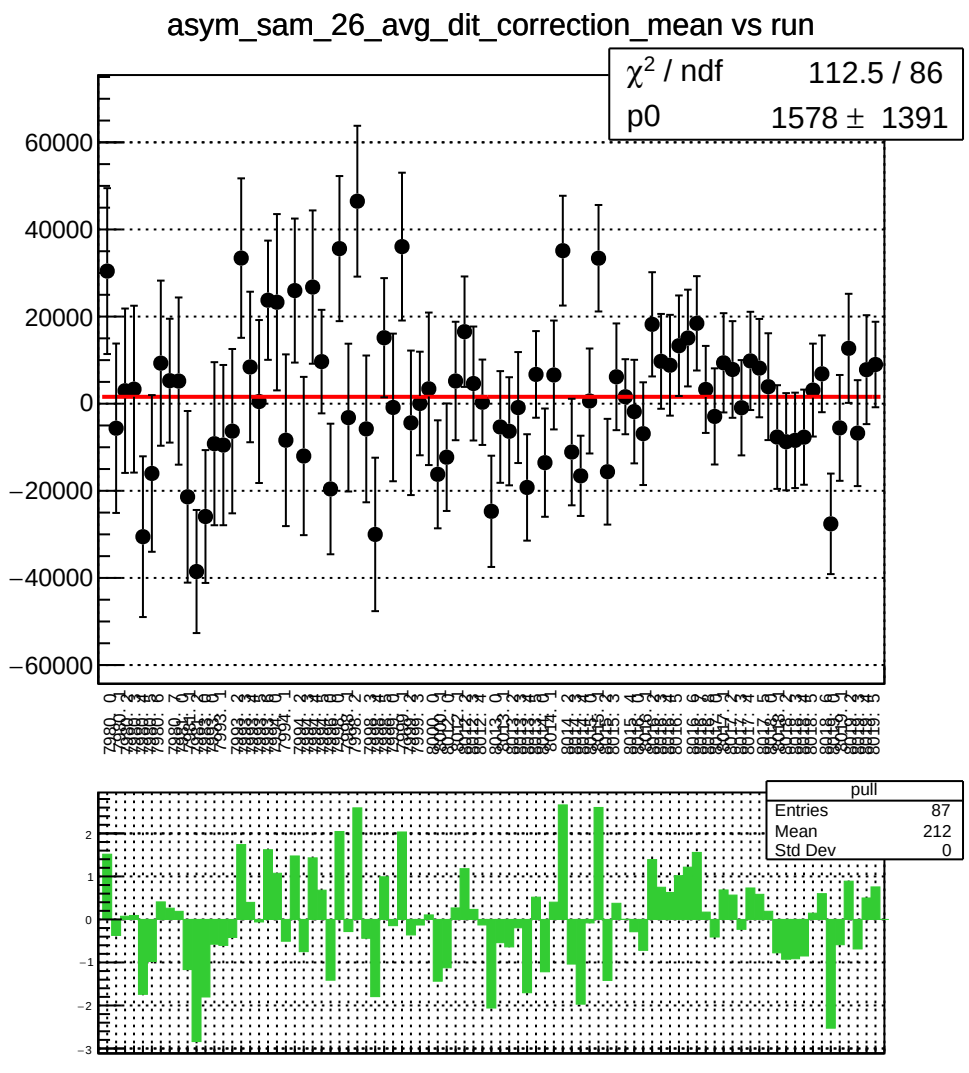

pull1D
Entries 87
Mean −0.01353
Std Dev 1.136

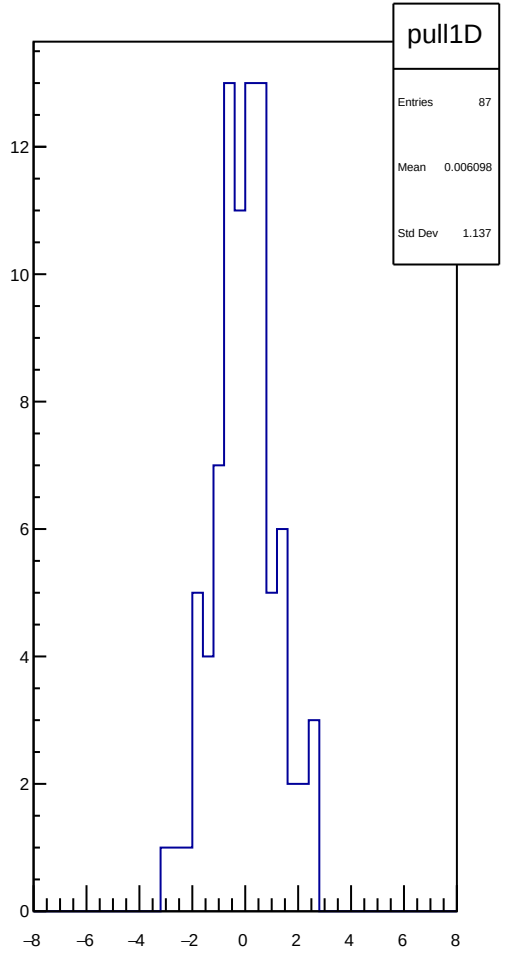

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.424e+04 / 86
p0 1238 ± 0.9503
2400
2200
2000
1800
1600
1400
1200
1000

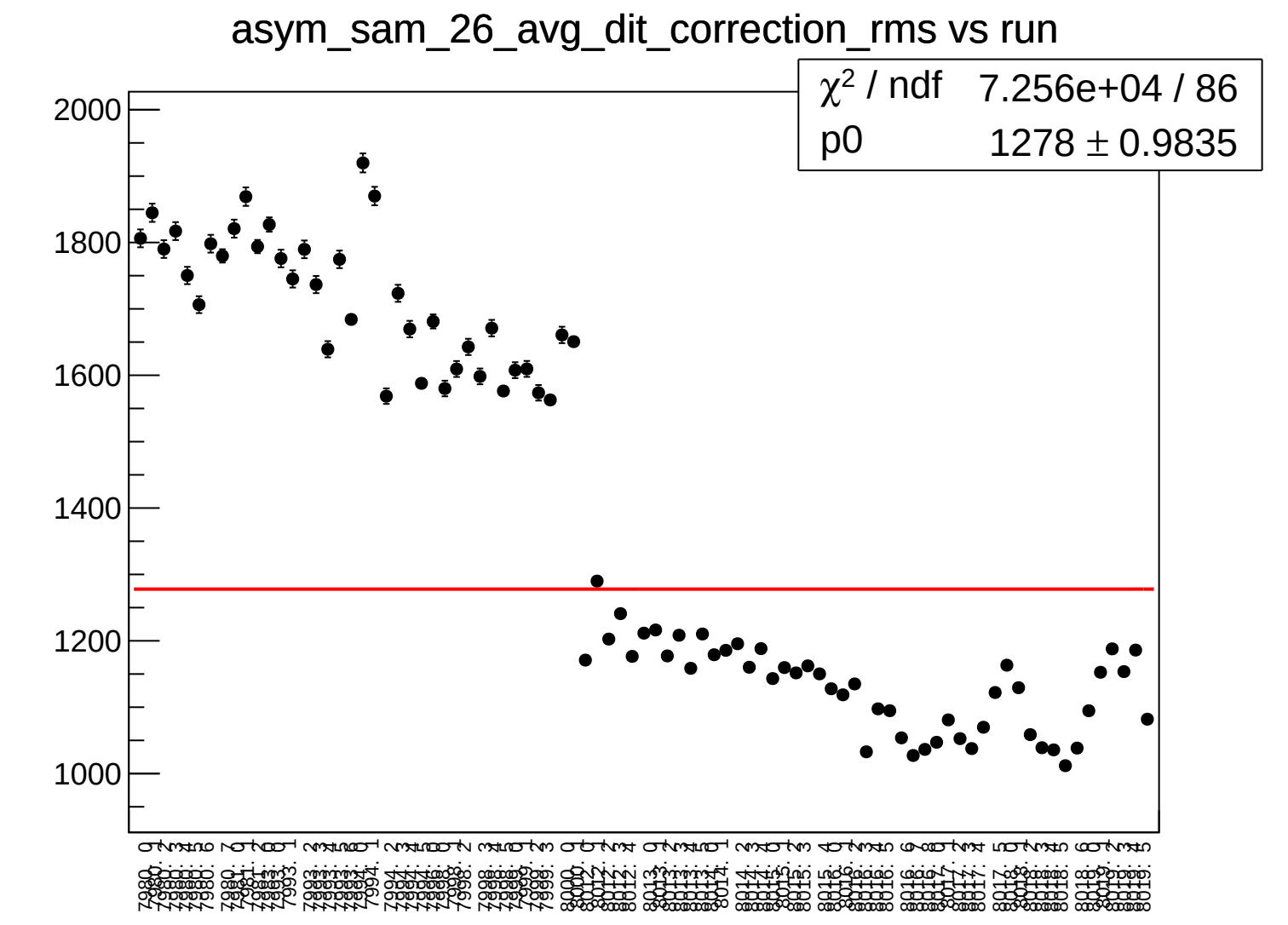

dit_asym_sam_26_avg_mean vs run
χ² / ndf 84.09 / 86
p0 146.2 ± 201.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −30.89
Std Dev 0
2
1
0
−1
−2

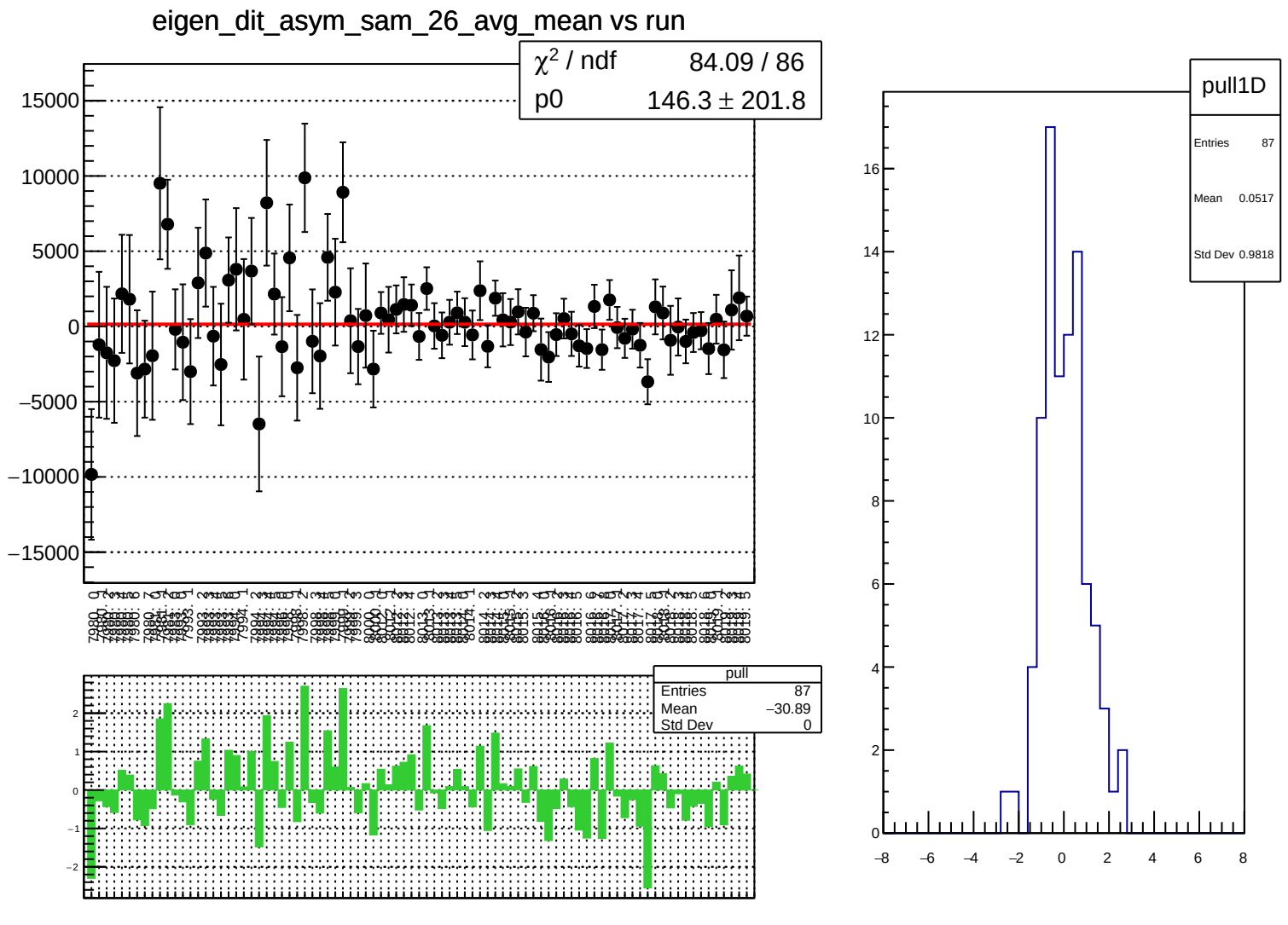

pull1D
Entries 87
Mean 0.0517
Std Dev 0.9818
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

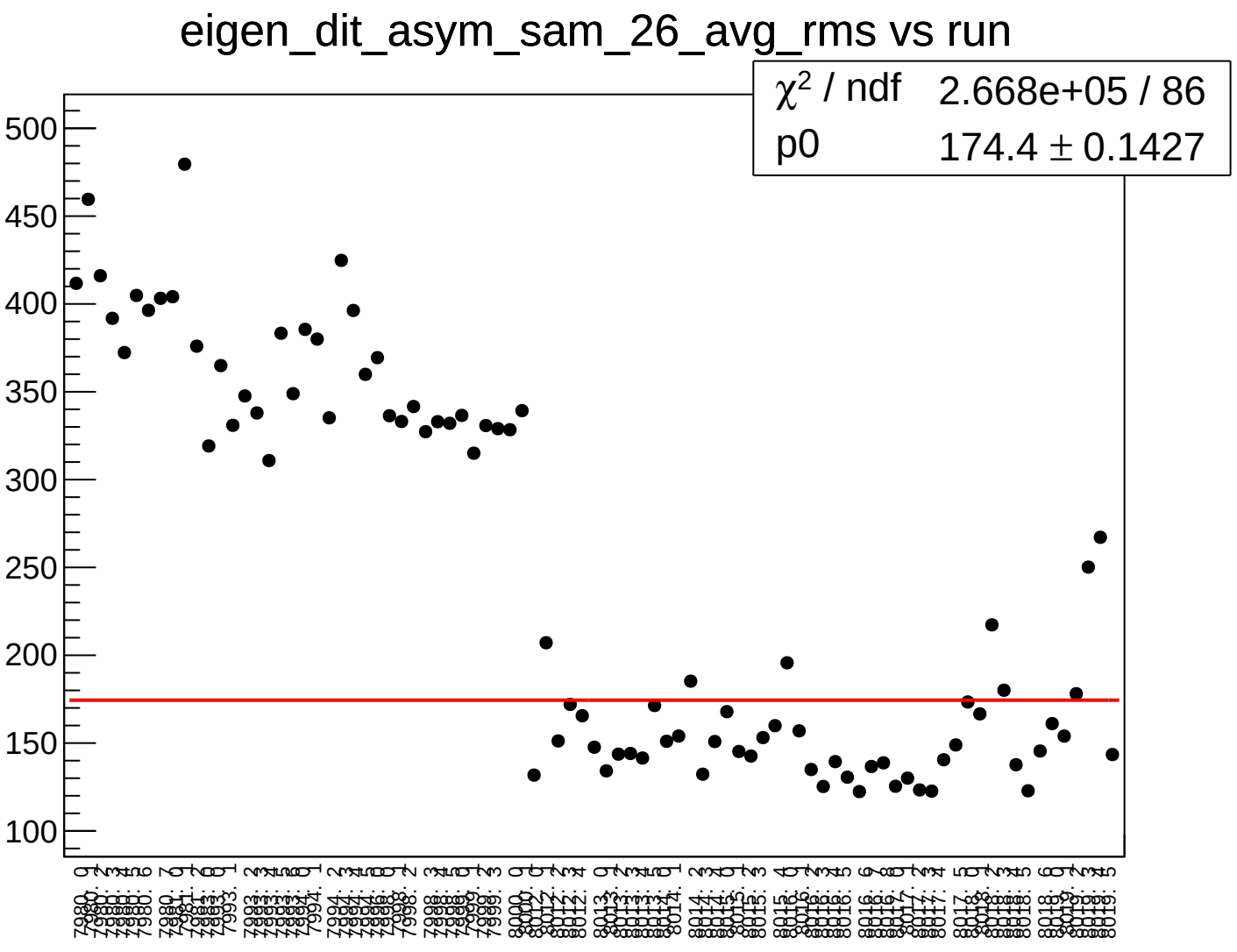

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.668e+05 / 86
p0 174.4 ± 0.1427
500
450
400
350
300
250
200
150
100

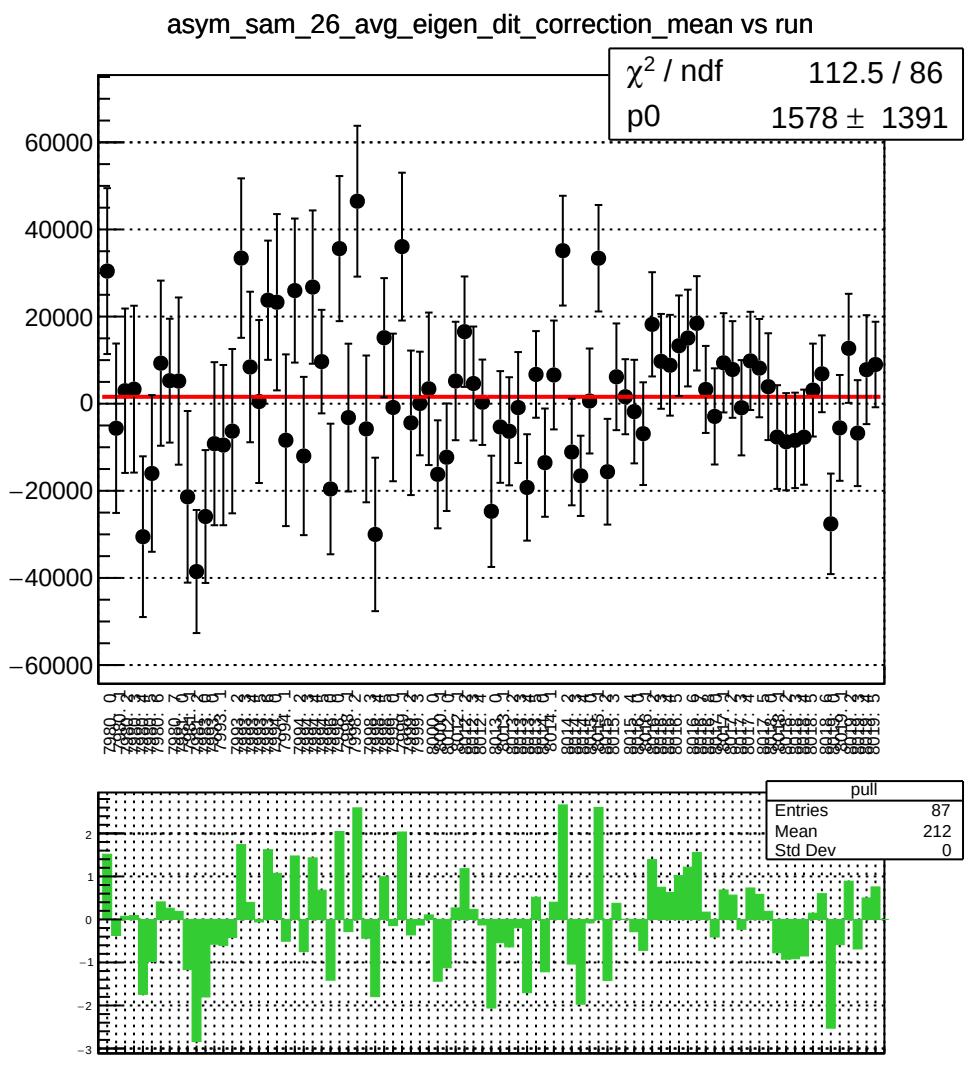

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 112.5 / 86
p0 1578 ± 1391
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 212
Std Dev 0
2
1
0
−1
−2
−3

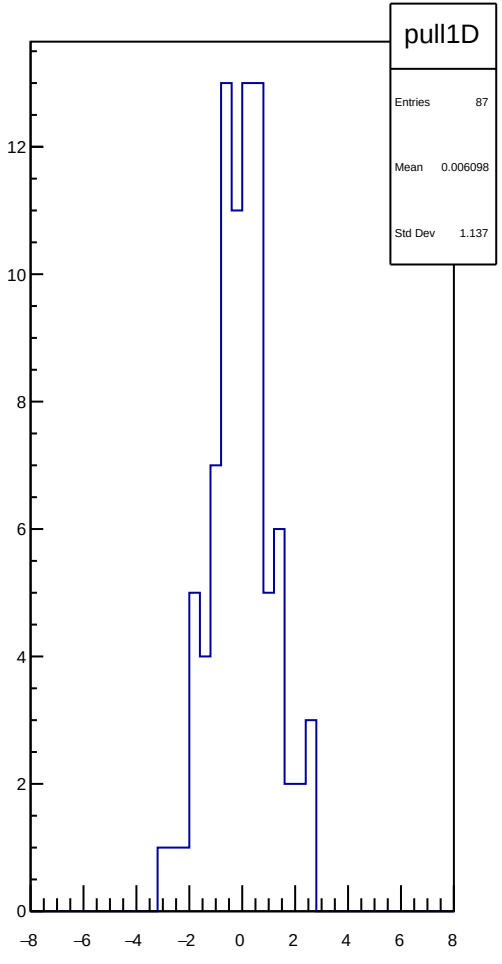

pull1D
Entries 87
Mean 0.006098
Std Dev 1.137
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

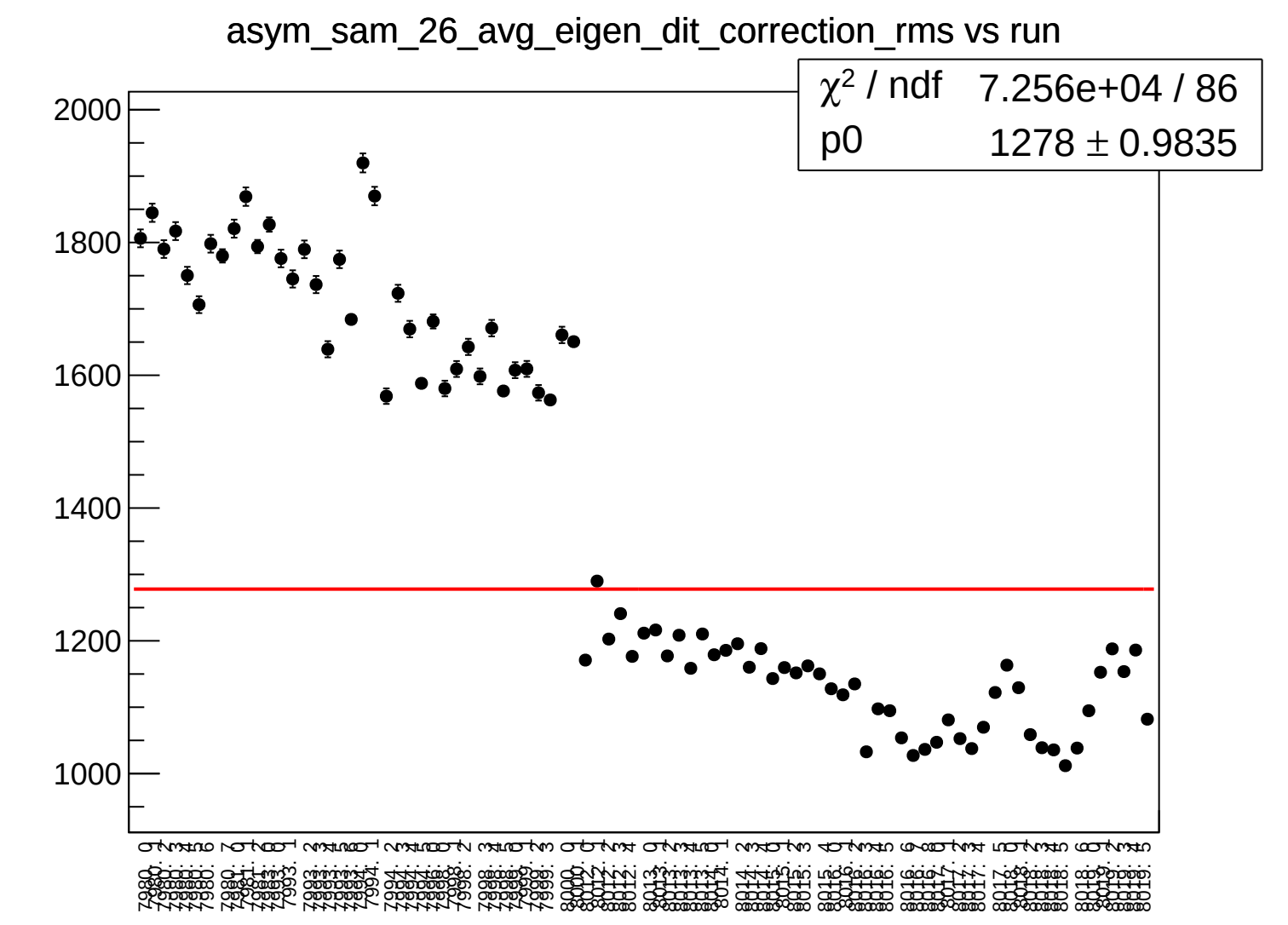

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 7.256e+04 / 86
p0 1278 ± 0.9835
2000
1800
1600
1400
1200
1000

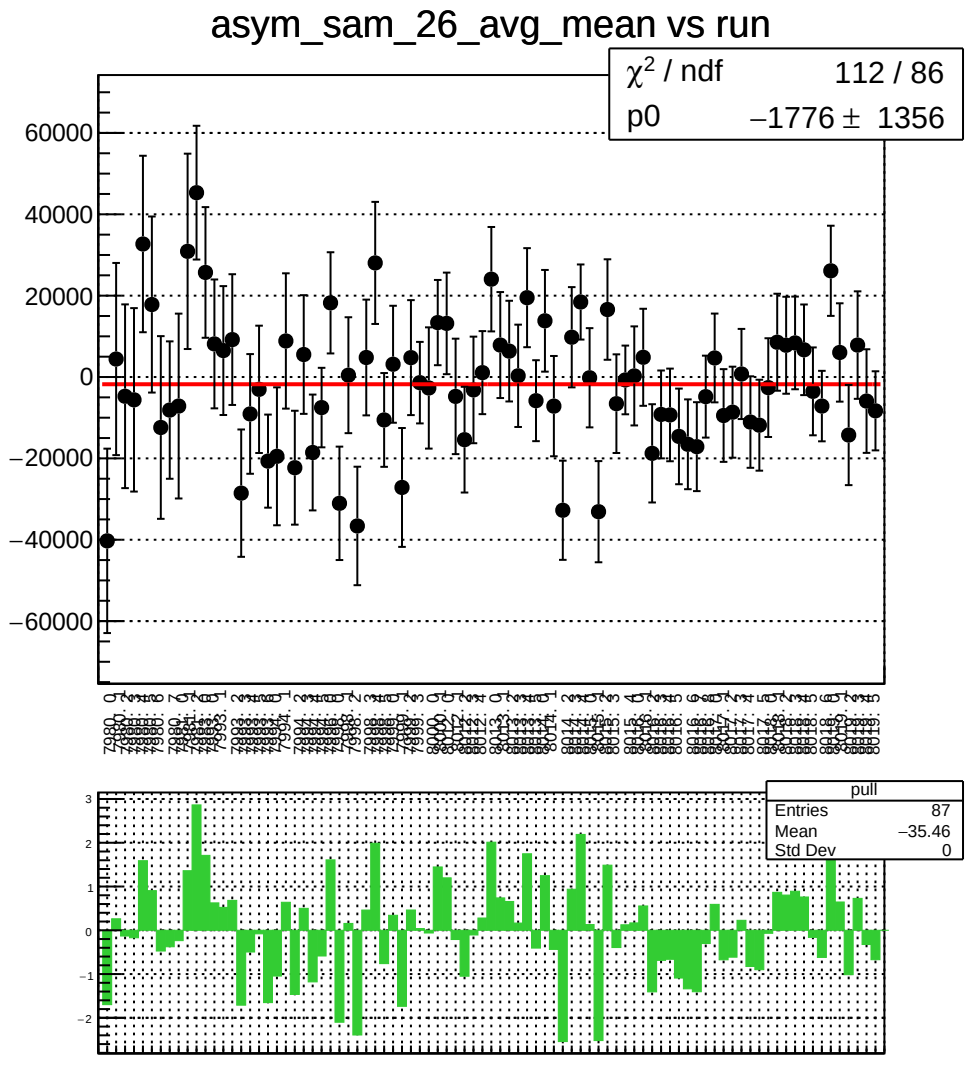

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 84.09 / 86
p0 146.3 ± 201.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −30.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.0517
Std Dev 0.9818
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

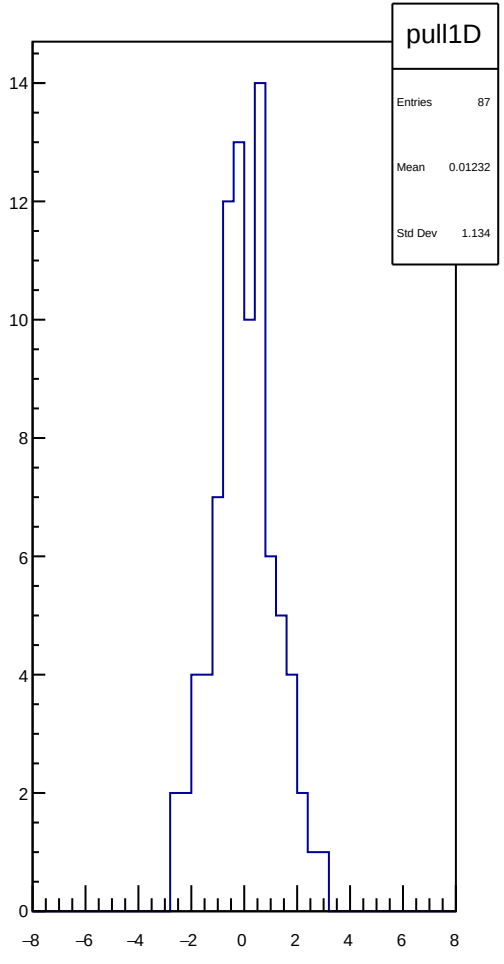

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.668e+05 / 86
p0 174.4 ± 0.1427
500
450
400
350
300
250
200
150
100

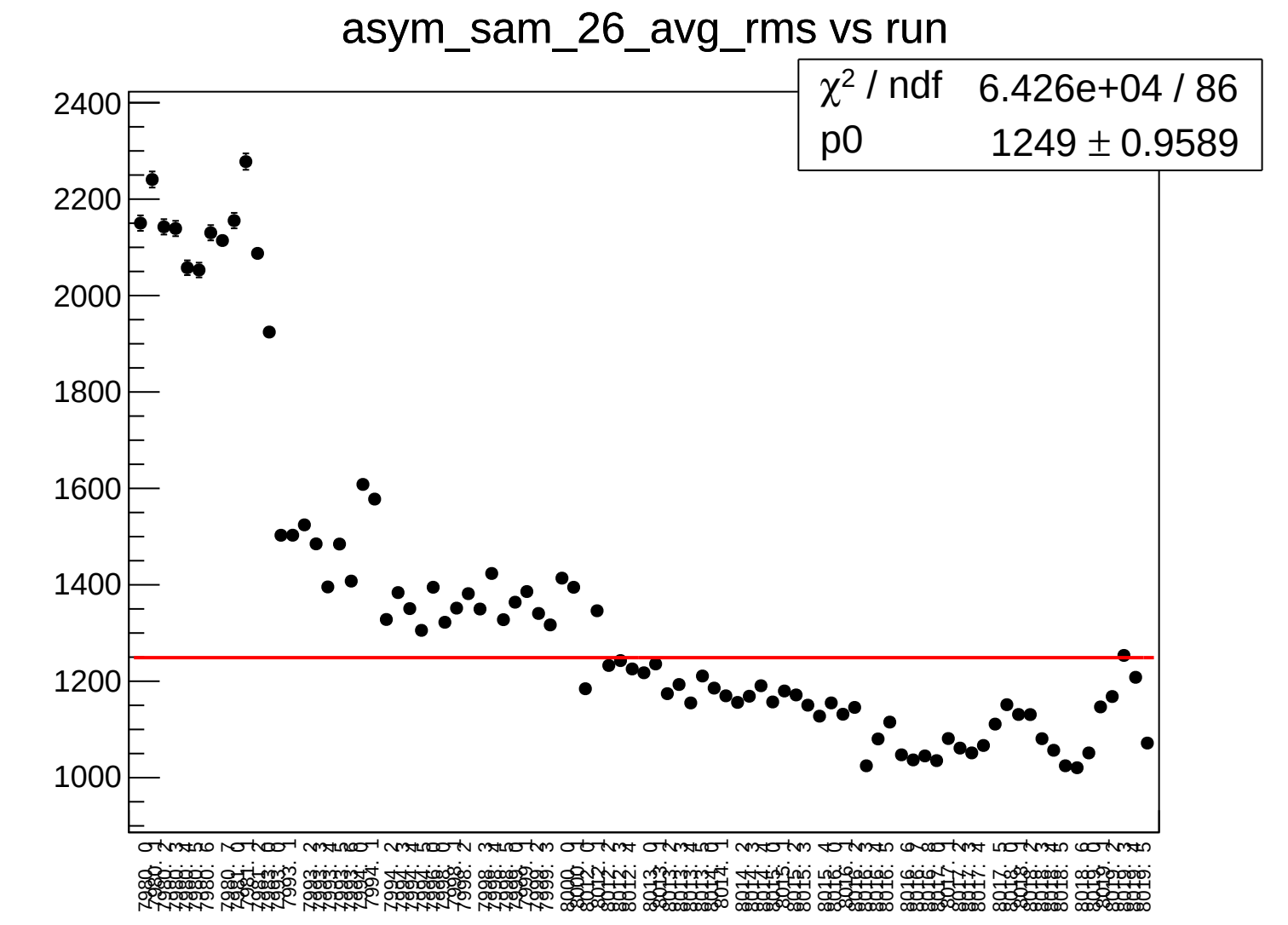

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 112.5 / 86
p0 1578 ± 1391
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 212
Std Dev 0
2
1
0
−1
−2
−3

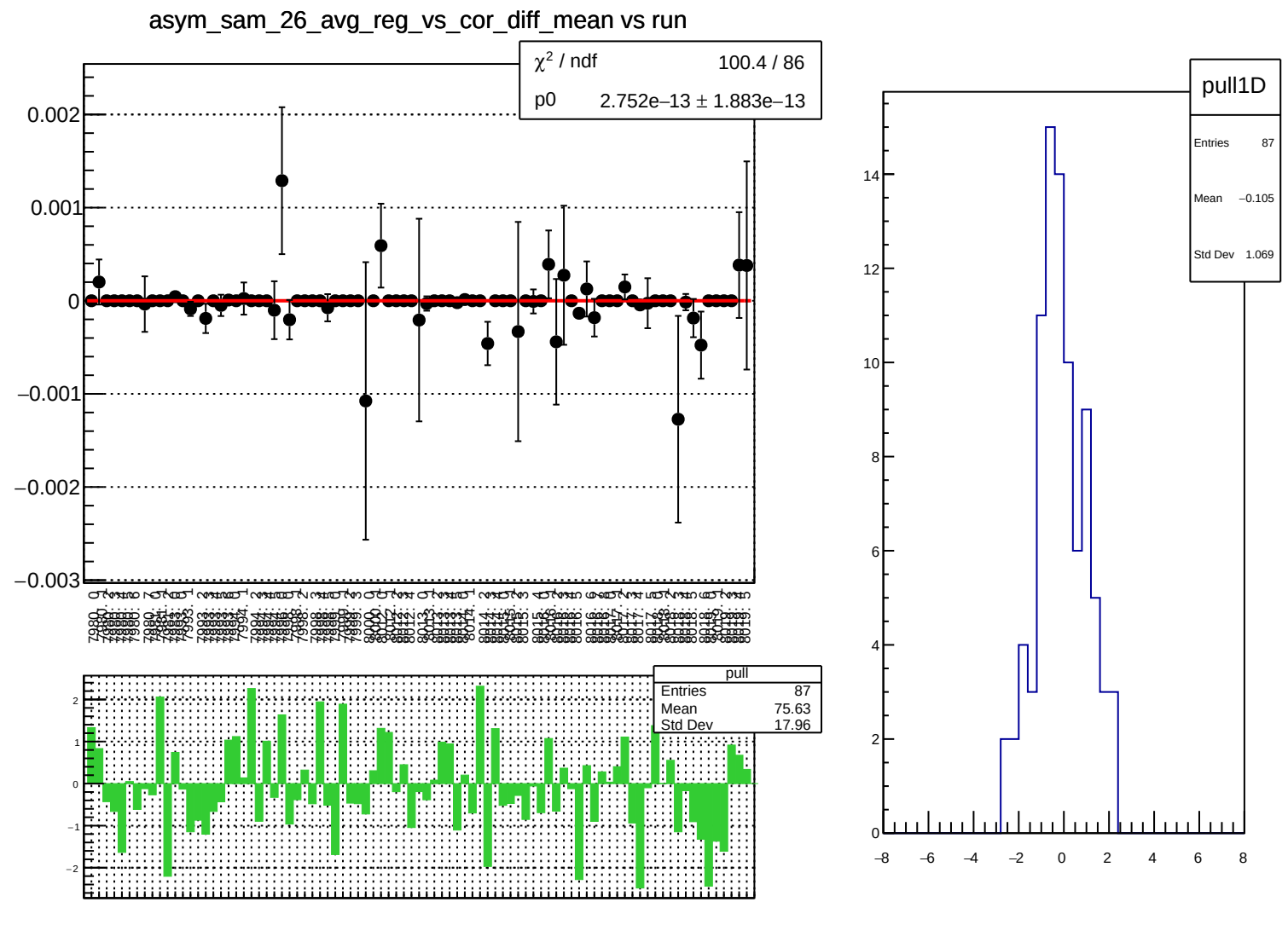

pull1D
Entries 87
Mean 0.006098
Std Dev 1.137
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

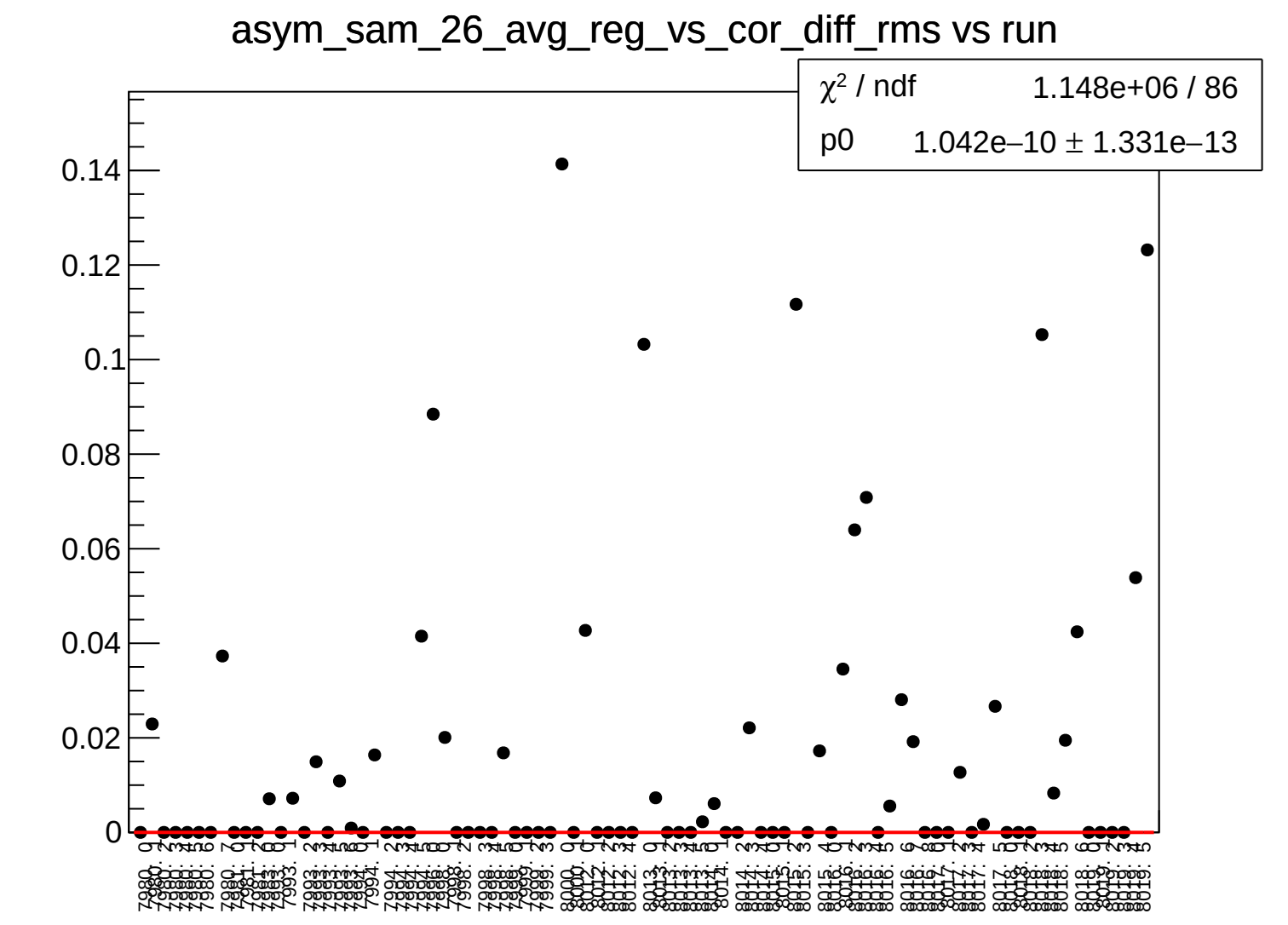

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.256e+04 / 86
p0 1278 ± 0.9835
2000
1800
1600
1400
1200
1000

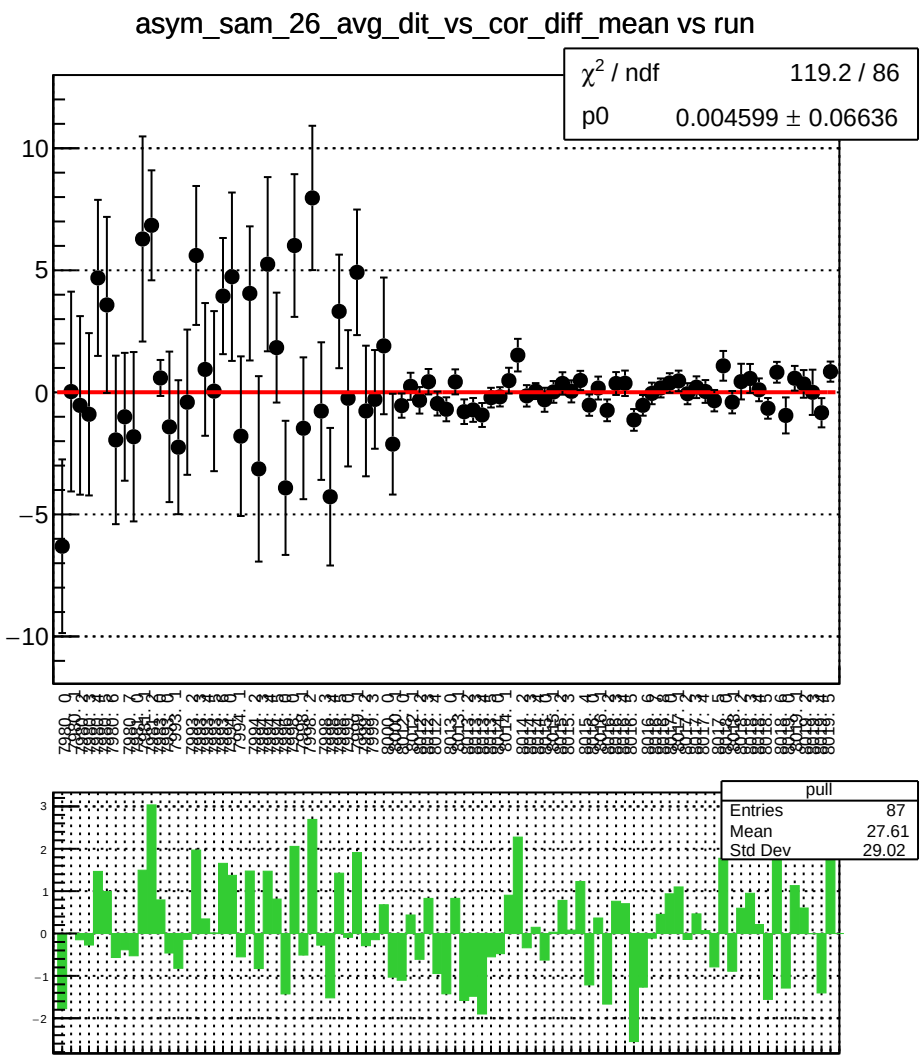

asym_sam_26_avg_mean vs run
χ² / ndf 112 / 86
p0 −1776 ± 1356
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −35.46
Std Dev 0
3
2
1
0
−1
−2

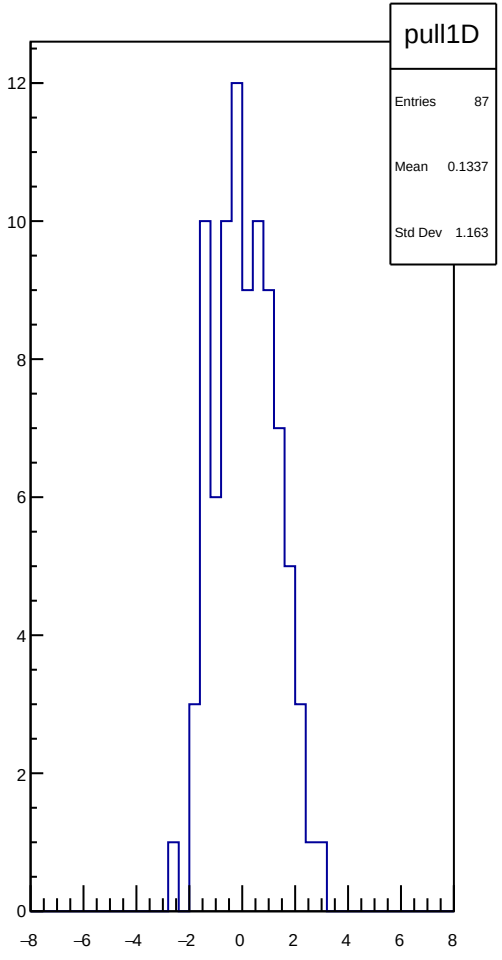

pull1D
Entries 87
Mean 0.01232
Std Dev 1.134
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

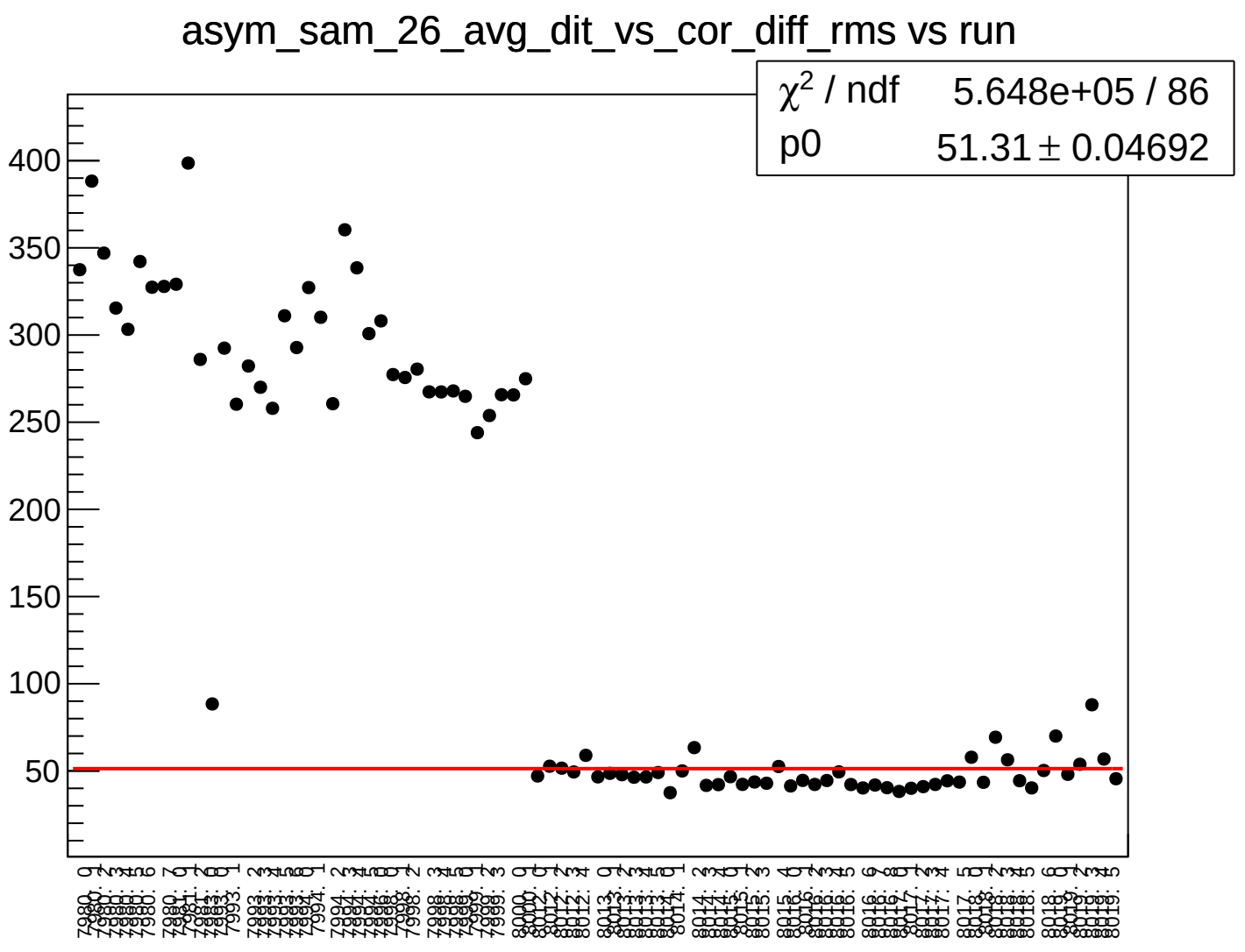

asym_sam_26_avg_rms vs run
χ² / ndf 6.426e+04 / 86
p0 1249 ± 0.9589
2400
2200
2000
1800
1600
1400
1200
1000

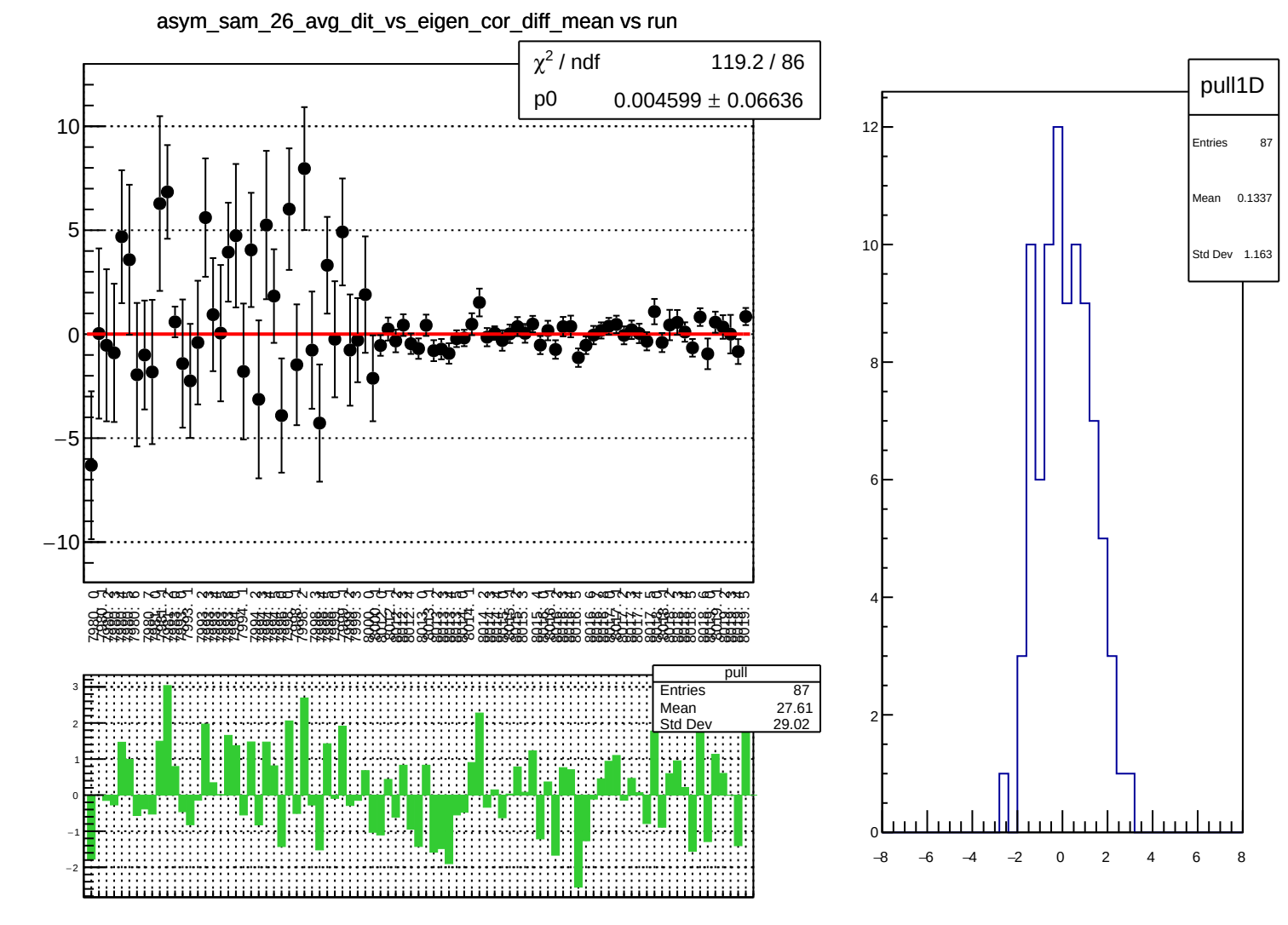

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 86
p0 2.752e−13 ± 1.883e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 87
Mean 75.63
Std Dev 17.96
pull1D
Entries 87
Mean −0.105
Std Dev 1.069

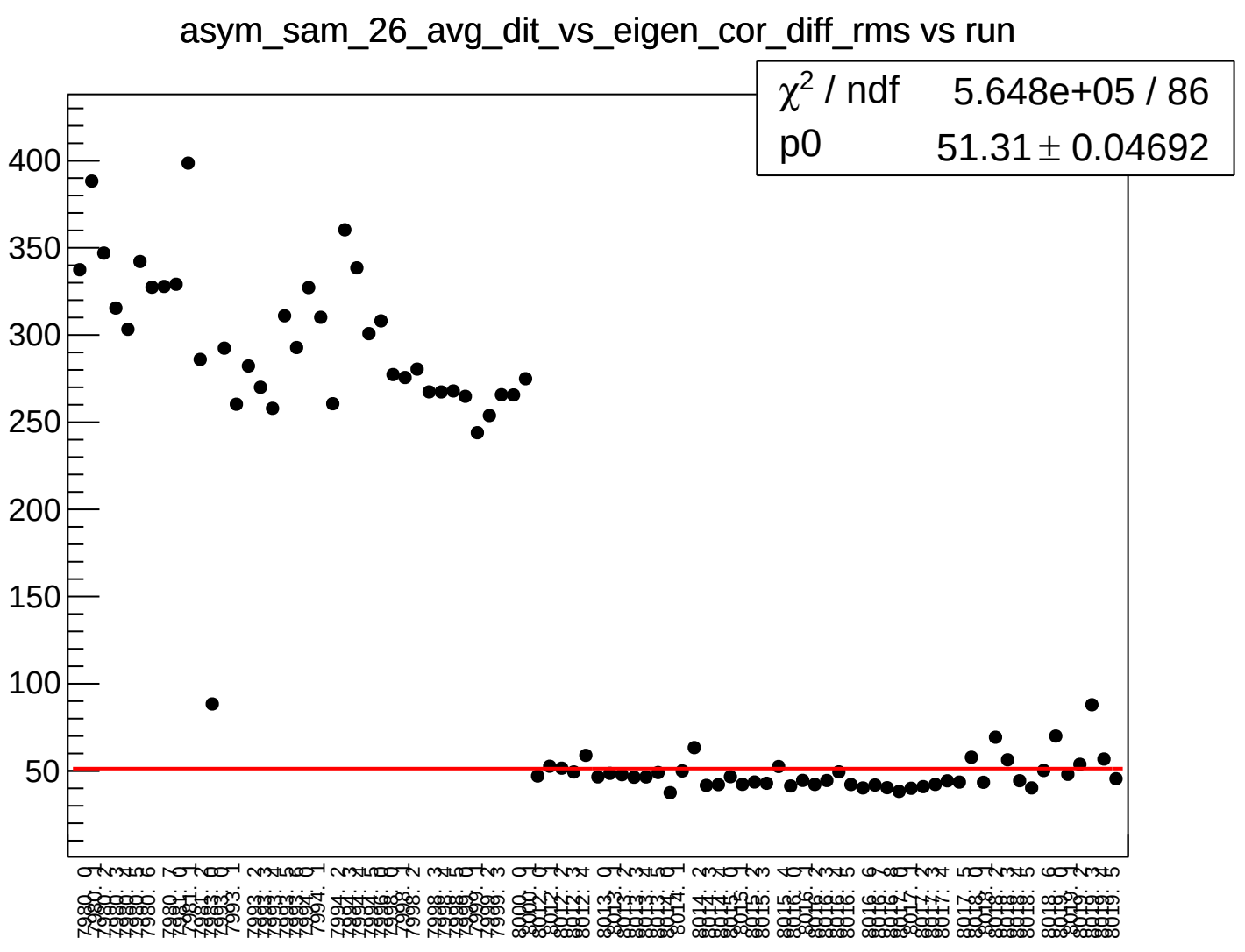

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.148e+06 / 86
p0 1.042e−10 ± 1.331e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

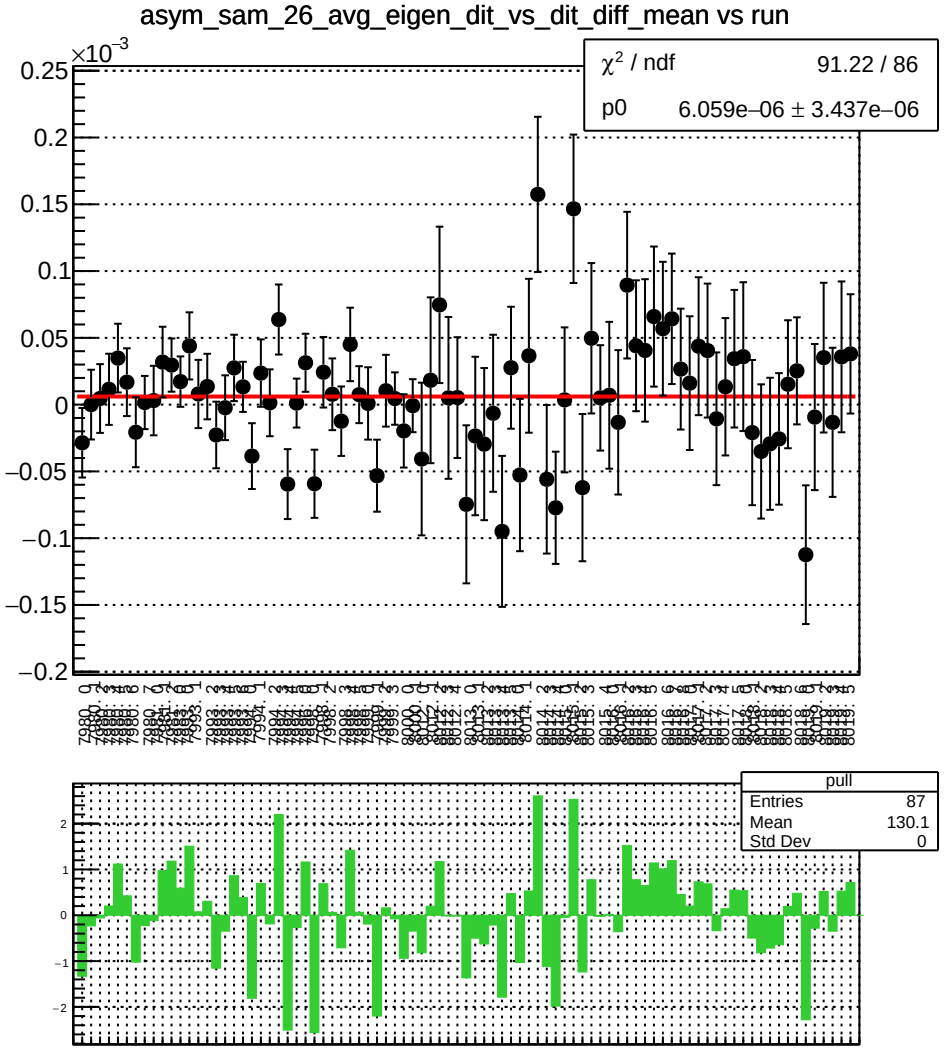

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 119.2 / 86
p0 0.004599 ± 0.06636
pull
Entries 87
Mean 27.61
Std Dev 29.02

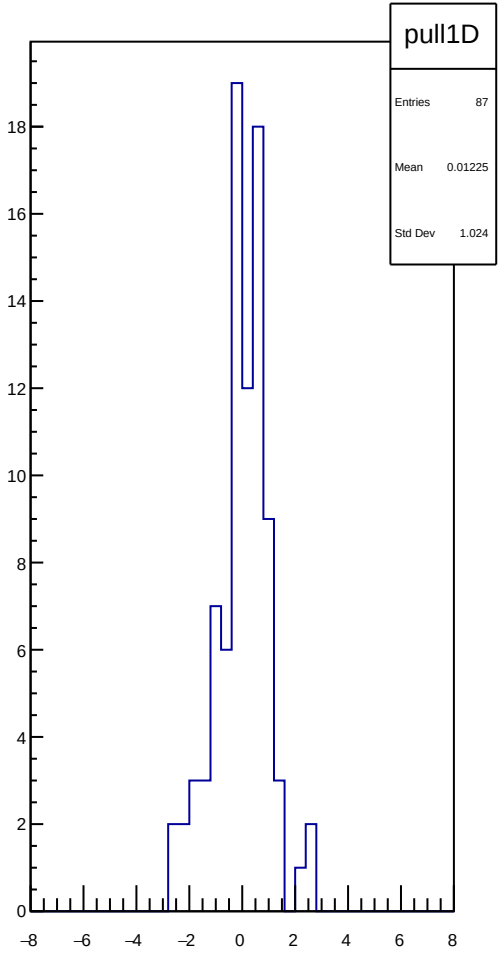

pull1D
Entries 87
Mean 0.1337
Std Dev 1.163

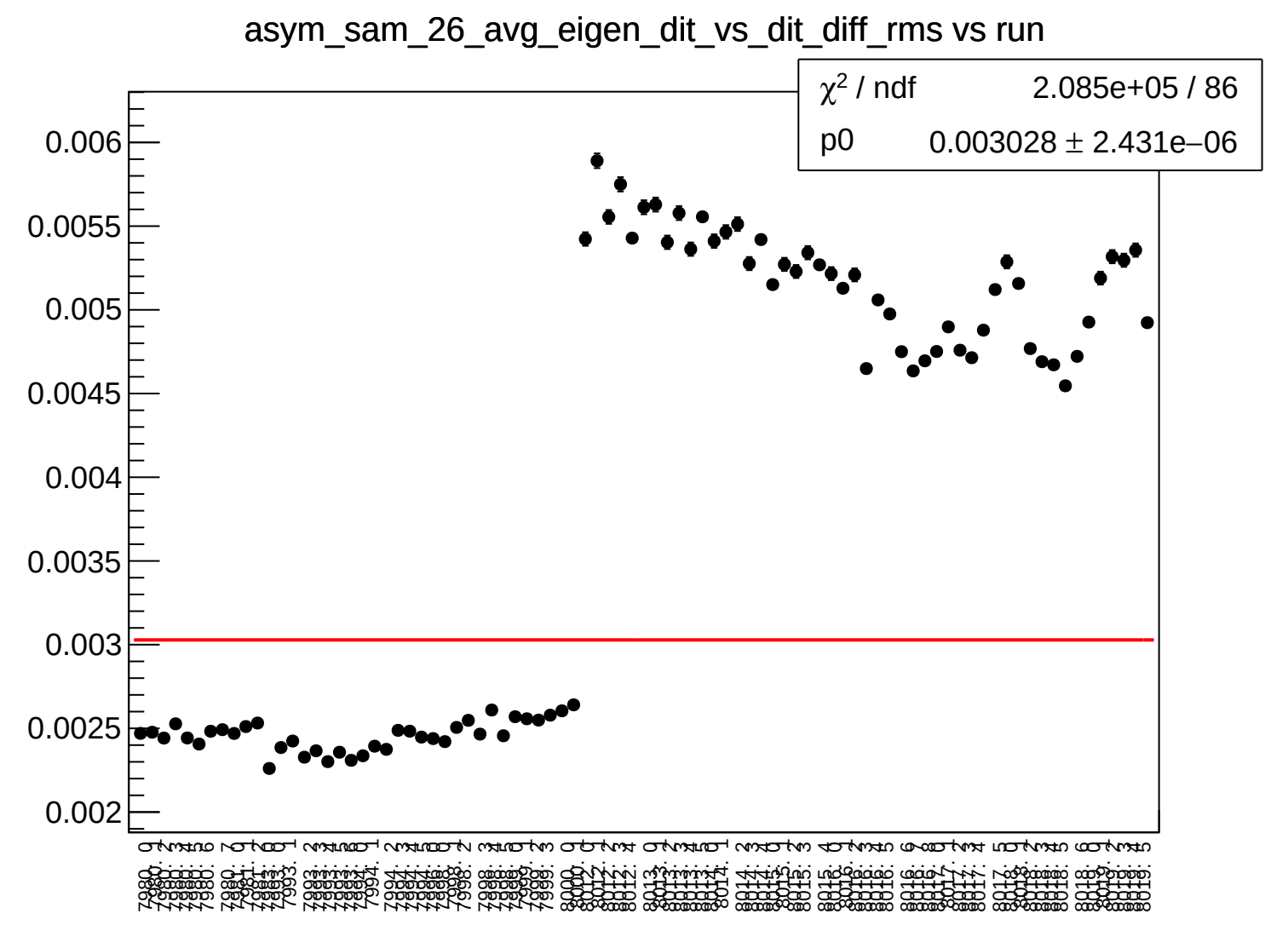

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.648e+05 / 86
p0 51.31 ± 0.04692
400
350
300
250
200
150
100
50

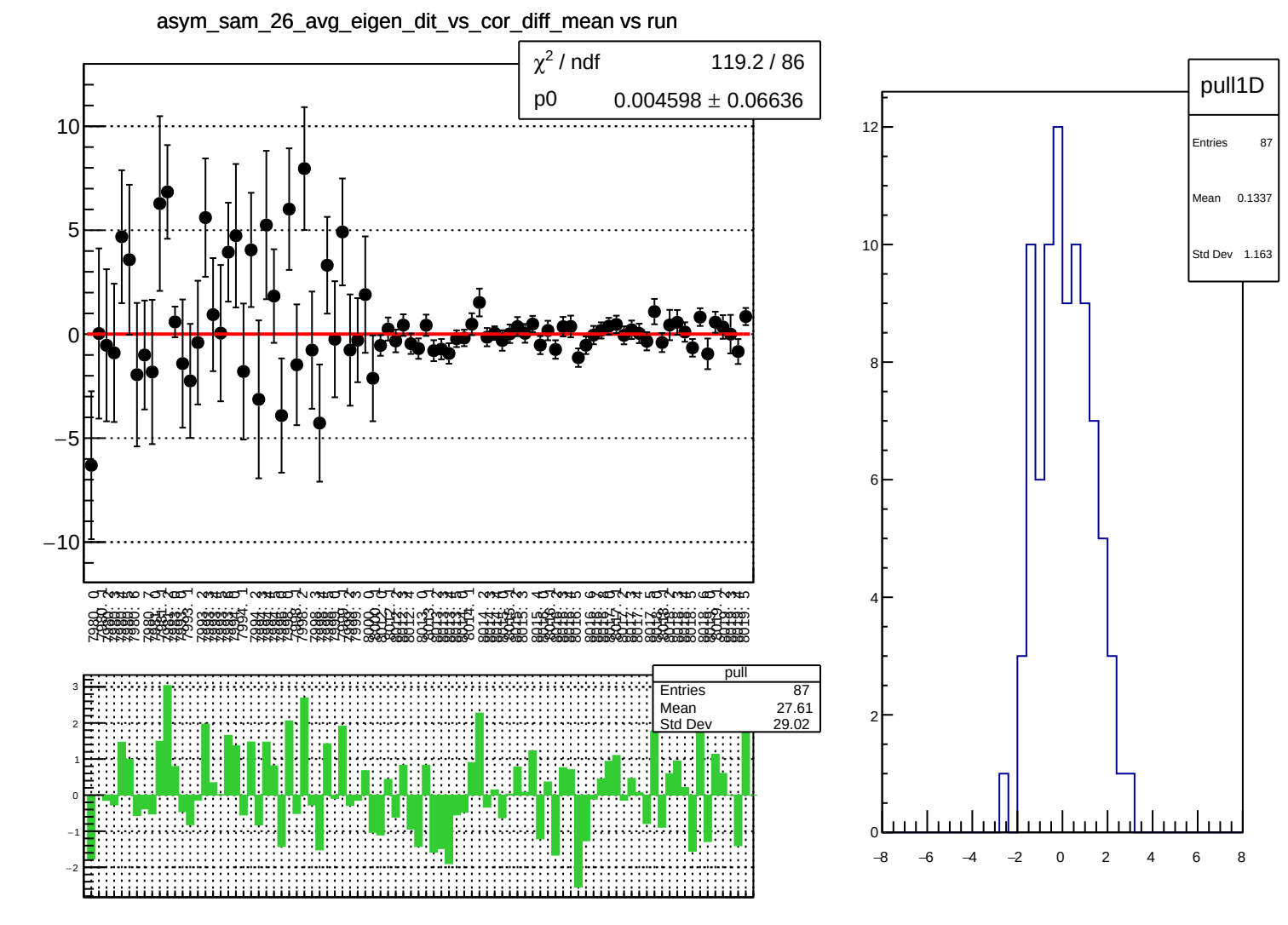

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.2 / 86
p0 0.004599 ± 0.06636
pull
Entries 87
Mean 27.61
Std Dev 29.02
pull1D
Entries 87
Mean 0.1337
Std Dev 1.163

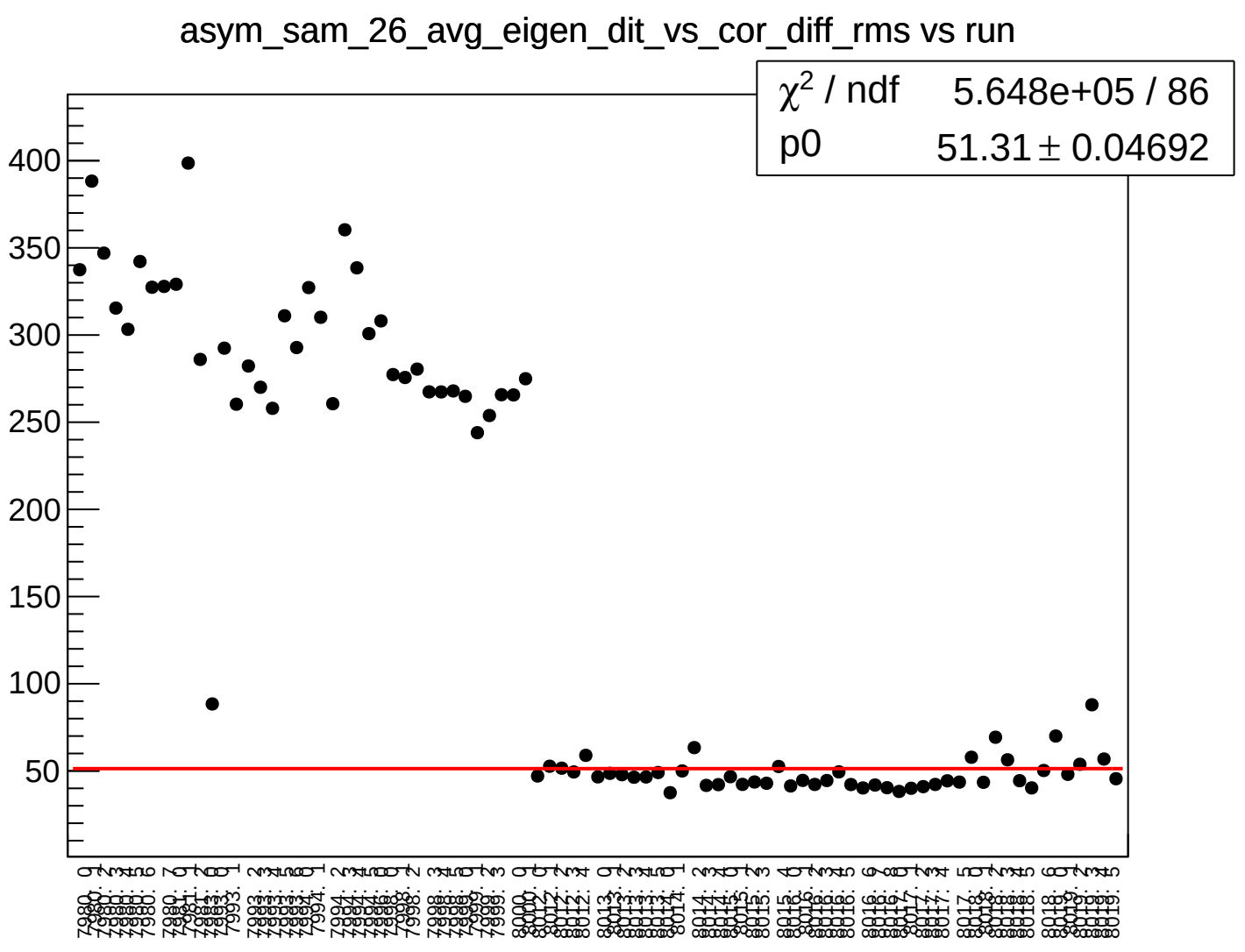

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.648e+05 / 86
p0 51.31 ± 0.04692
400
350
300
250
200
150
100
50

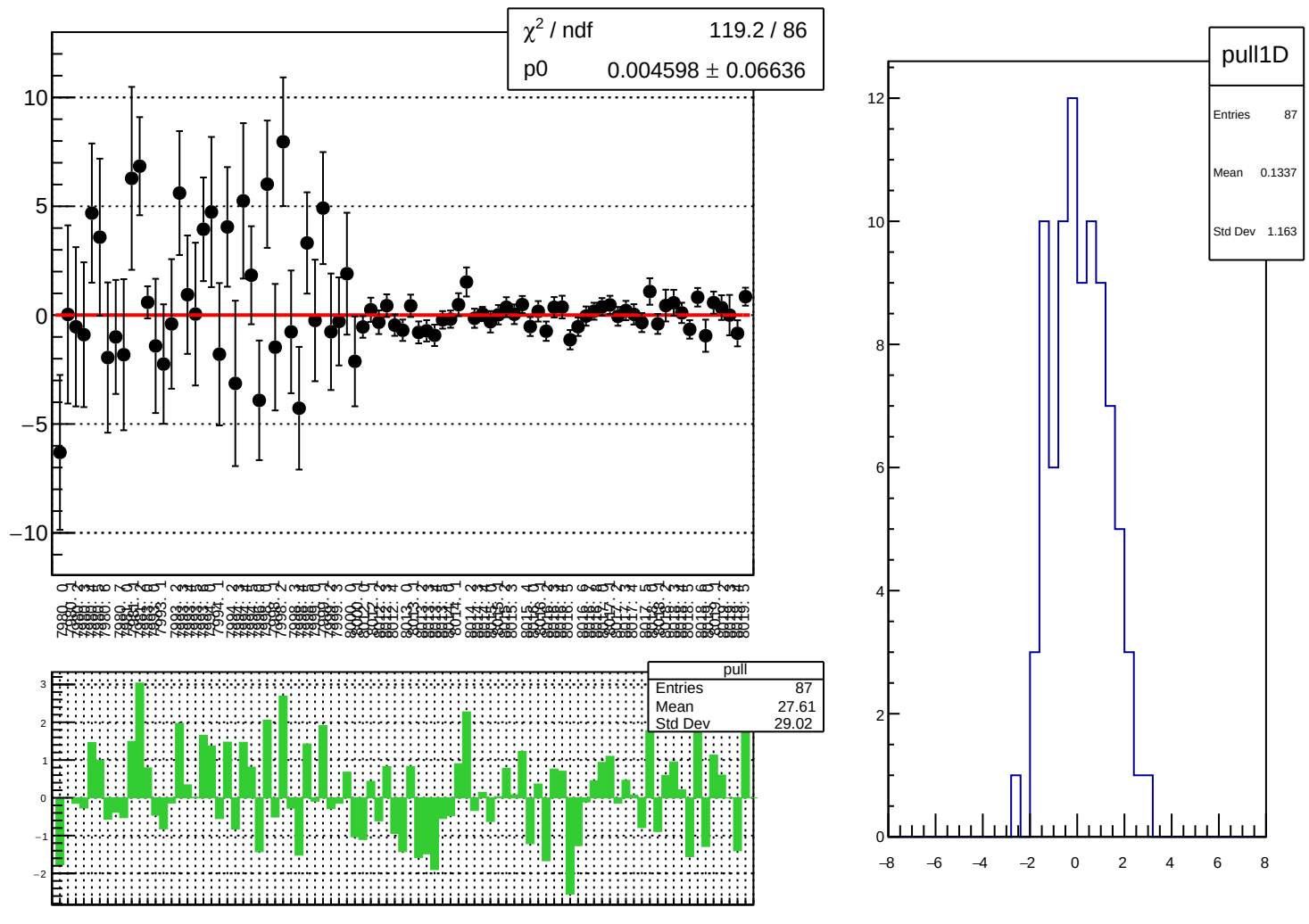

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.22 / 86
p0 6.059e−06 ± 3.437e−06
pull
Entries 87
Mean 130.1
Std Dev 0

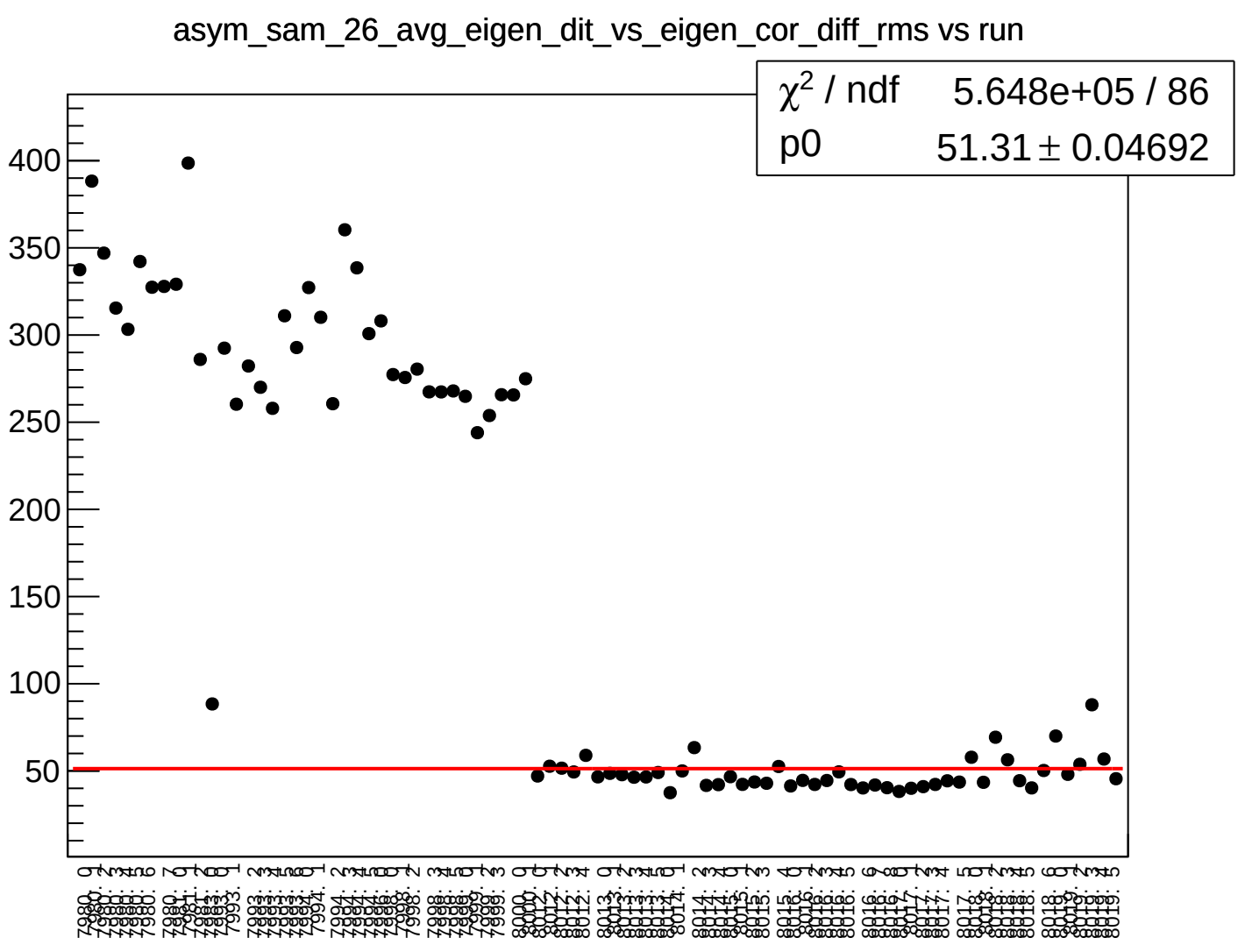

pull1D
Entries 87
Mean 0.01225
Std Dev 1.024

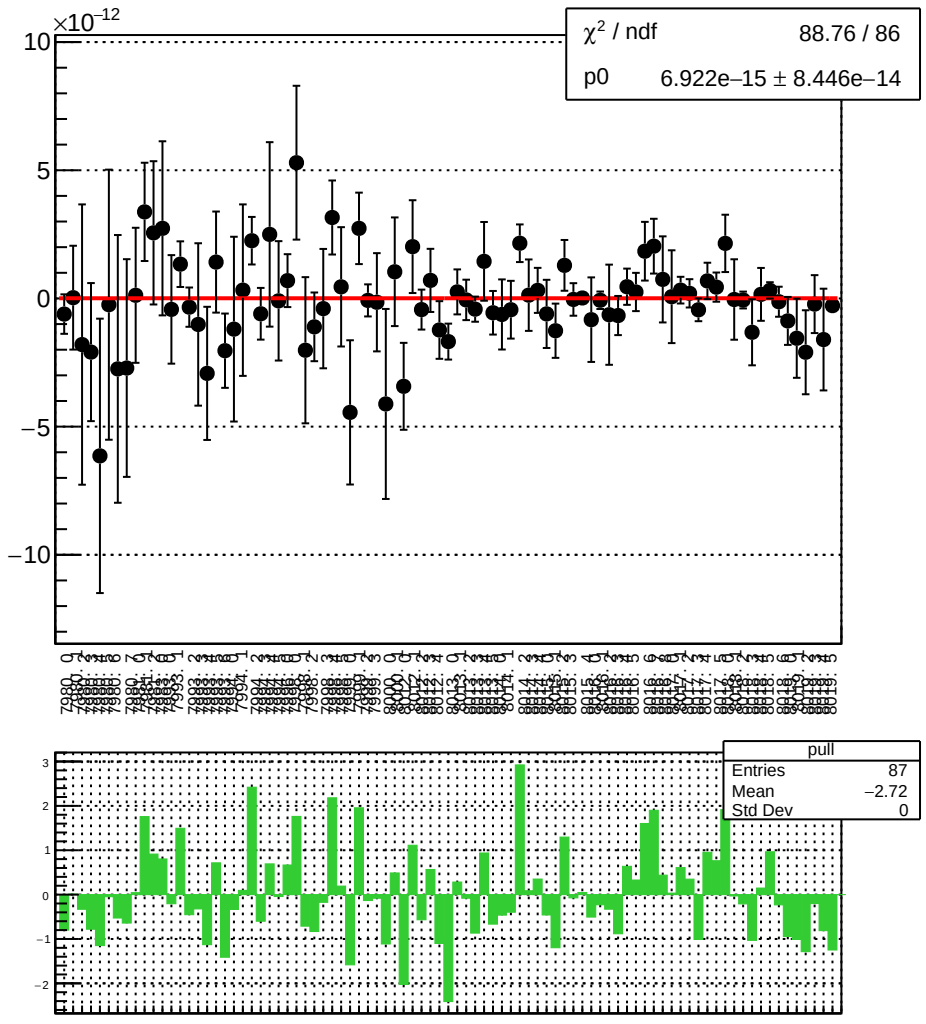

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.085e+05 / 86
p0 0.003028 ± 2.431e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

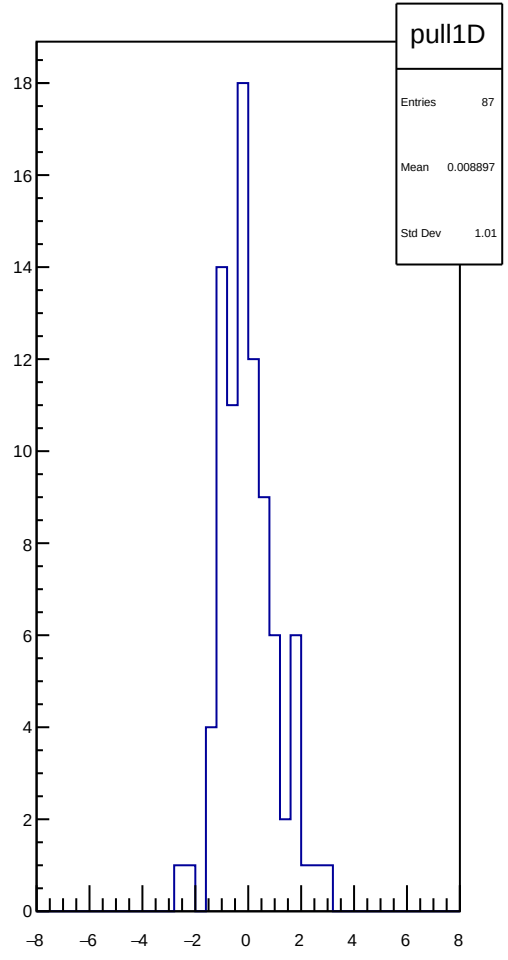

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.2 / 86
p0 0.004598 ± 0.06636
pull
Entries 87
Mean 27.61
Std Dev 29.02
pull1D
Entries 87
Mean 0.1337
Std Dev 1.163

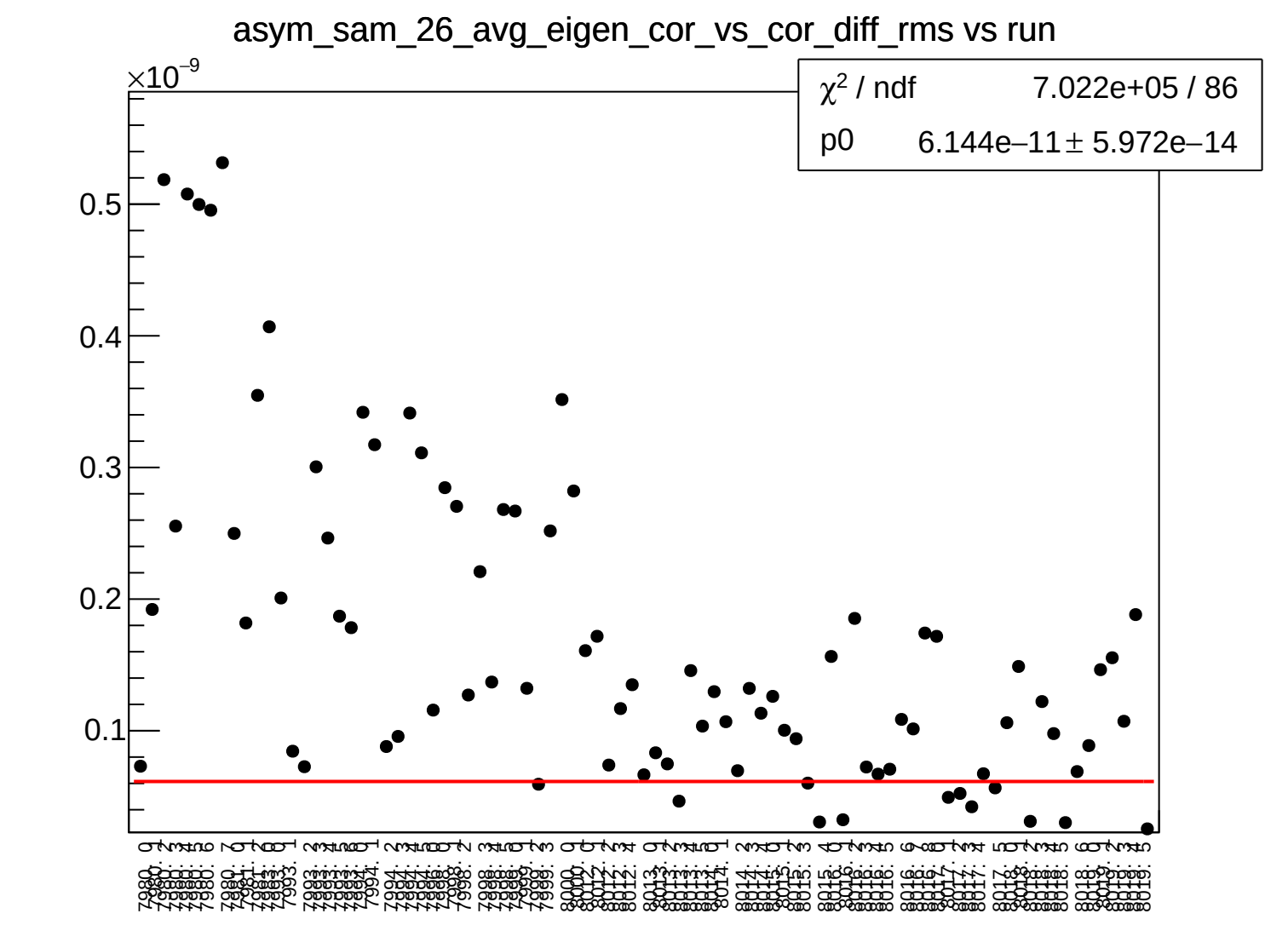

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.648e+05 / 86
p0 51.31 ± 0.04692
400
350
300
250
200
150
100
50

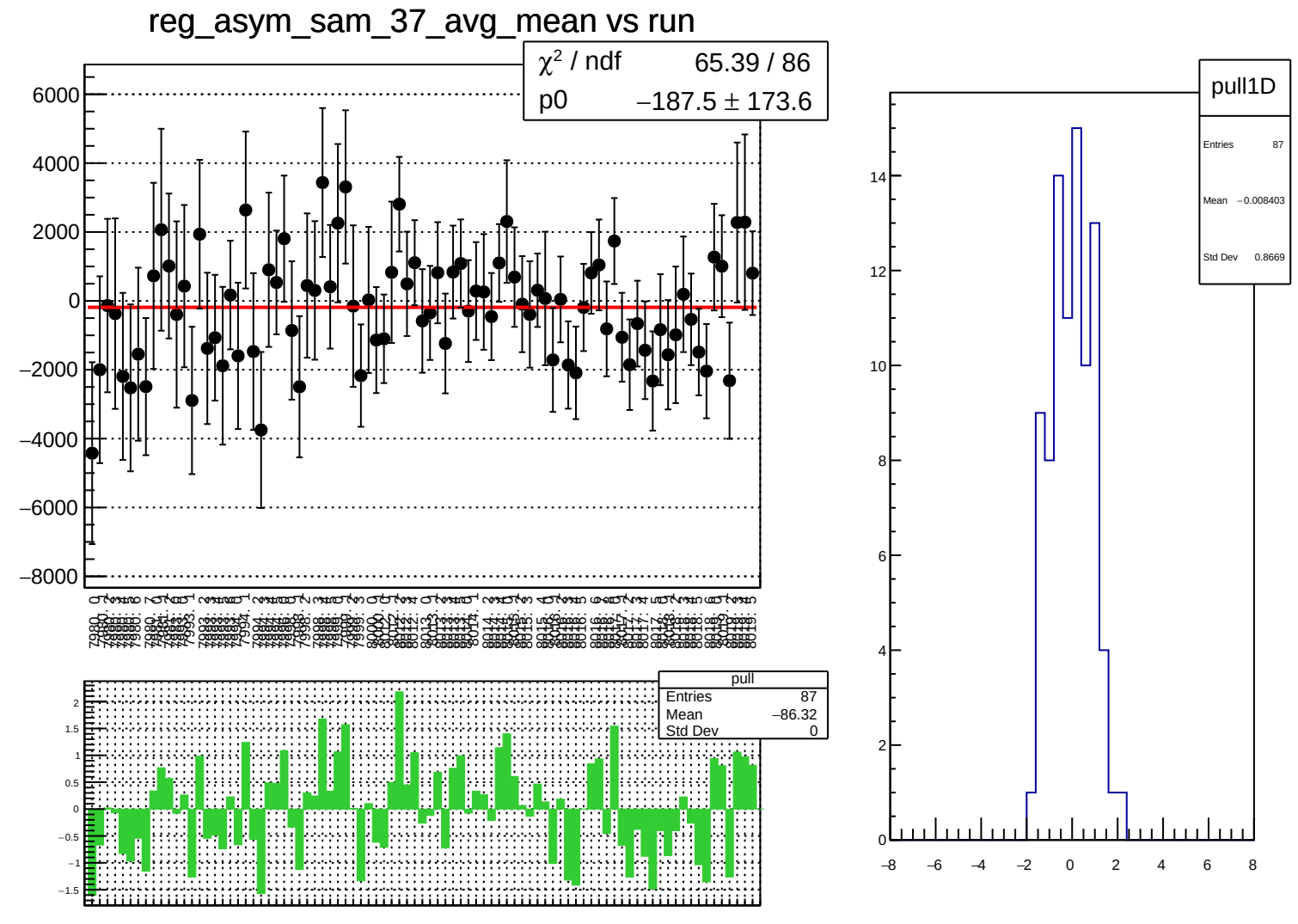

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.2 / 86
p0 0.004598 ± 0.06636
pull
Entries 87
Mean 27.61
Std Dev 29.02
pull1D
Entries 87
Mean 0.1337
Std Dev 1.163

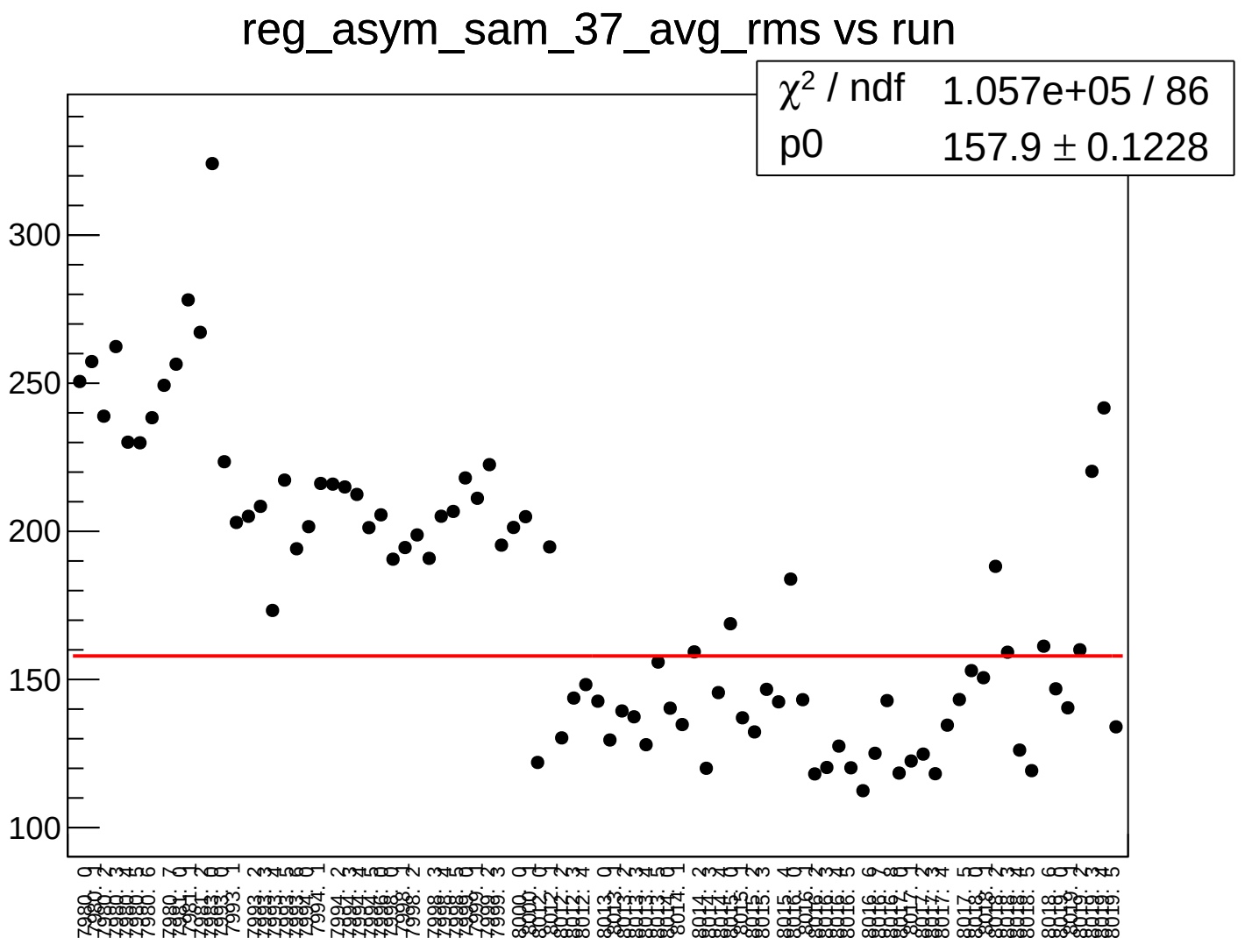

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.648e+05 / 86
p0 51.31 ± 0.04692
400
350
300
250
200
150
100
50

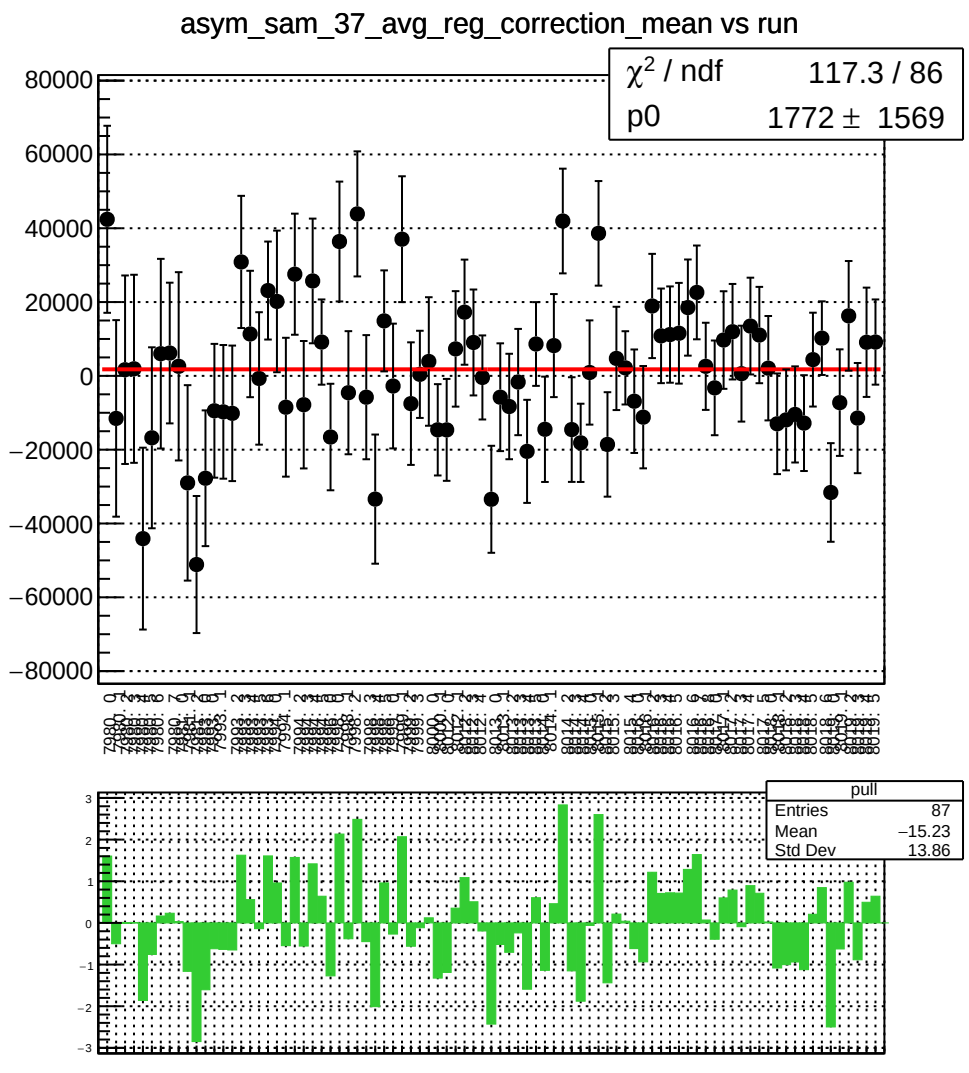

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.76 / 86
p0 6.922e−15 ± 8.446e−14
pull
Entries 87
Mean −2.72
Std Dev 0

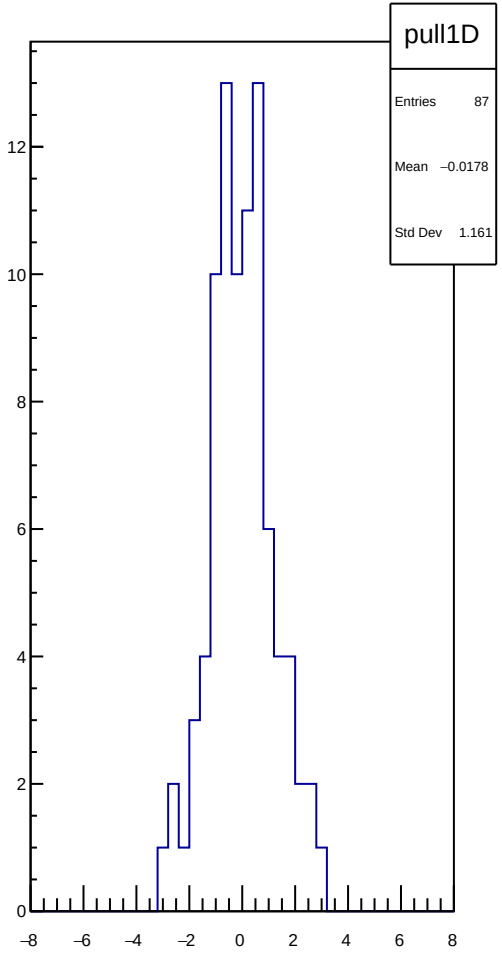

pull1D
Entries 87
Mean 0.008897
Std Dev 1.01

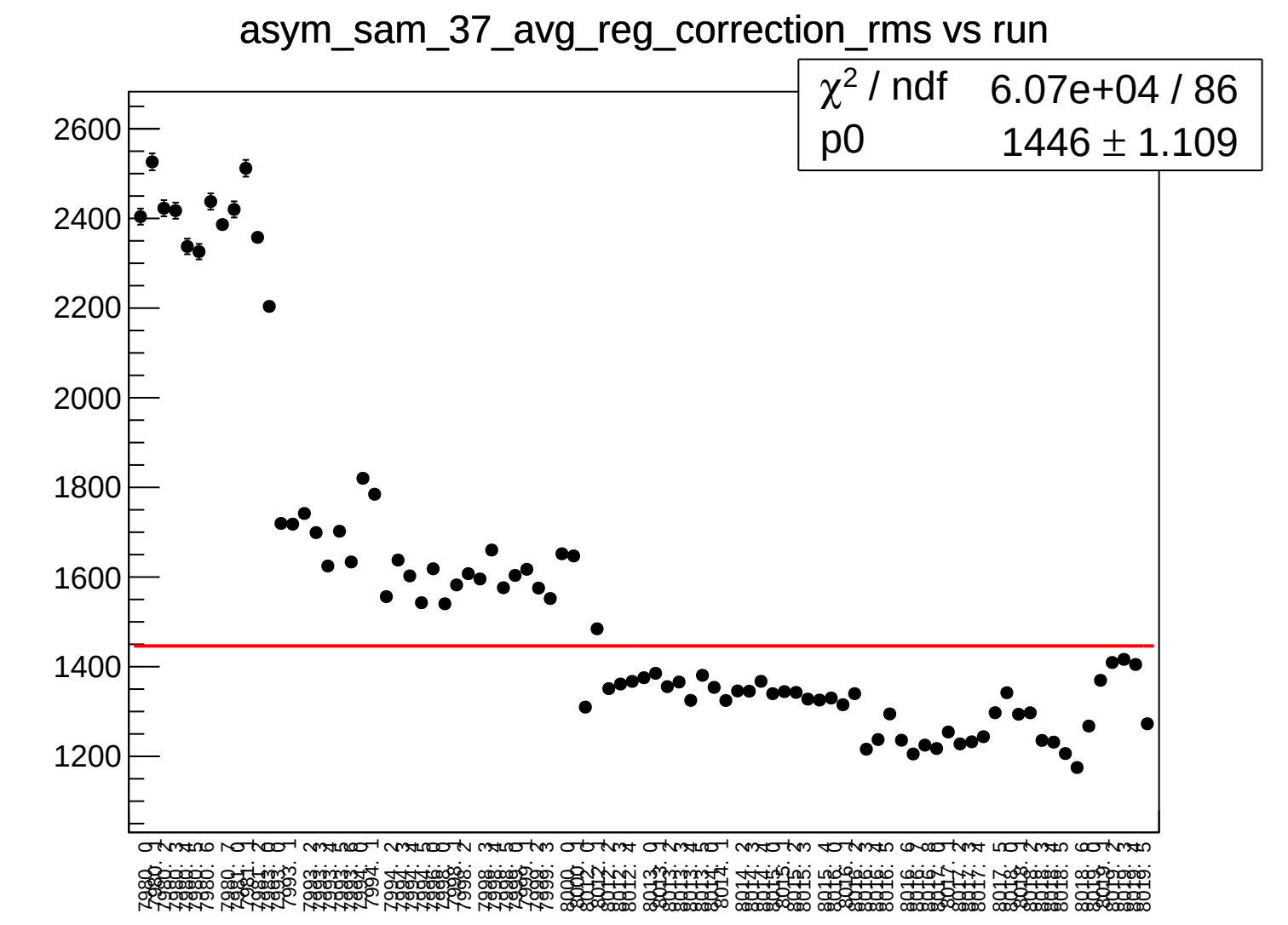

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.022e+05 / 86
p0 6.144e−11 ± 5.972e−14
0.5
0.4
0.3
0.2
0.1

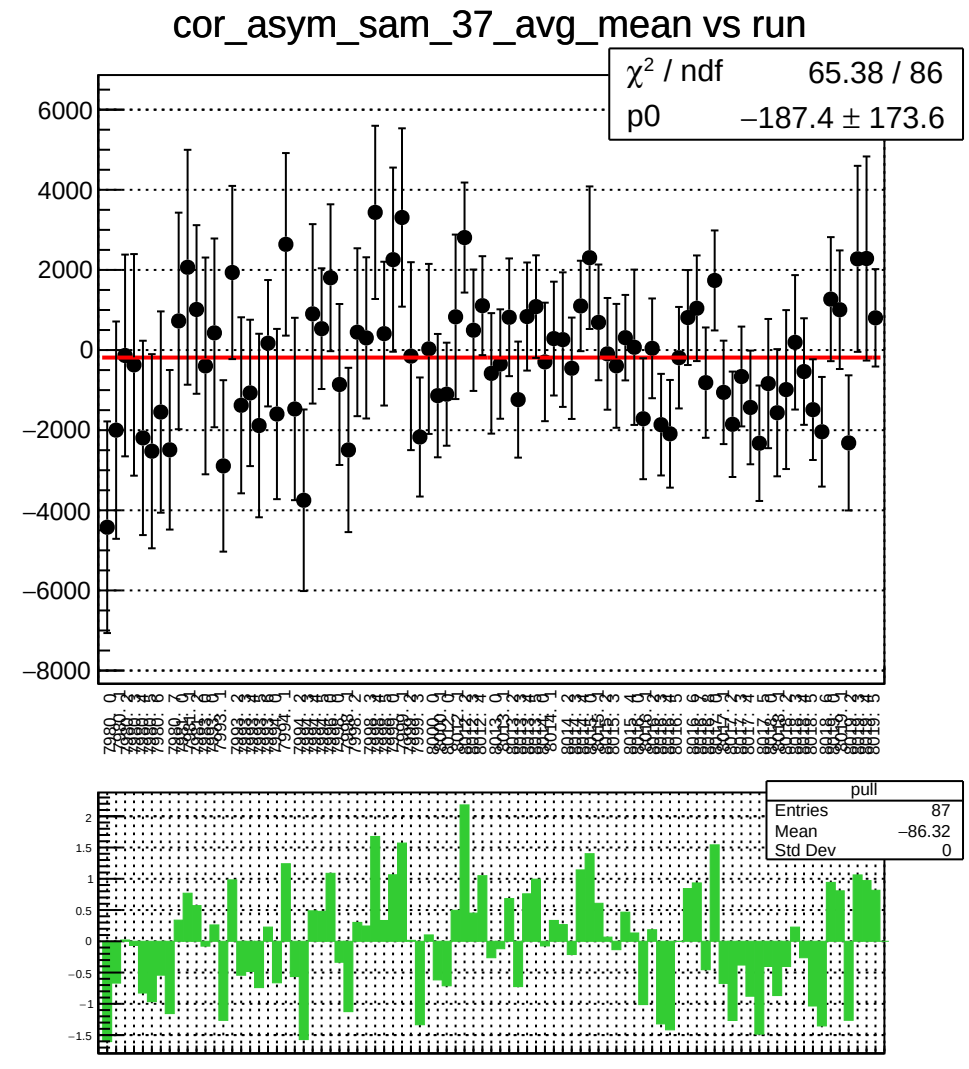

reg_asym_sam_37_avg_mean vs run
χ² / ndf 65.39 / 86
p0 −187.5 ± 173.6
pull
Entries 87
Mean −86.32
Std Dev 0
pull1D
Entries 87
Mean −0.008403
Std Dev 0.8669

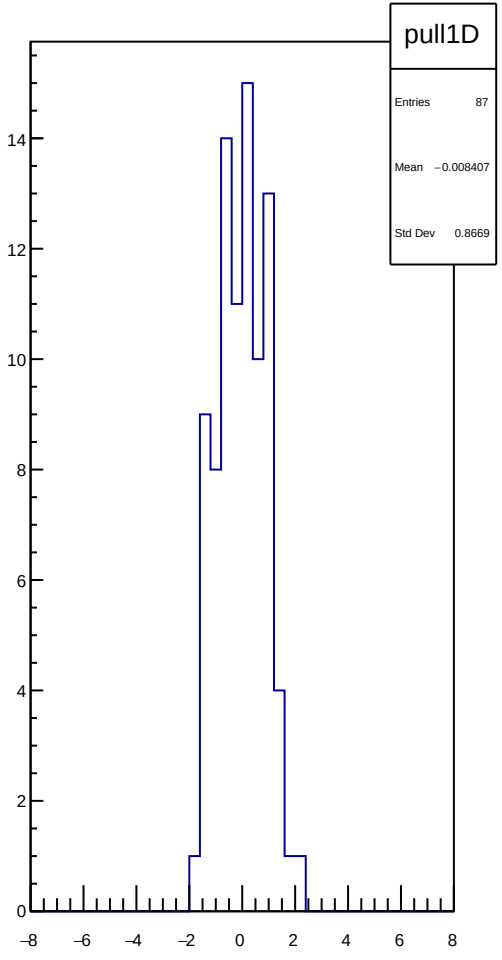

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.057e+05 / 86
p0 157.9 ± 0.1228
300
250
200
150
100

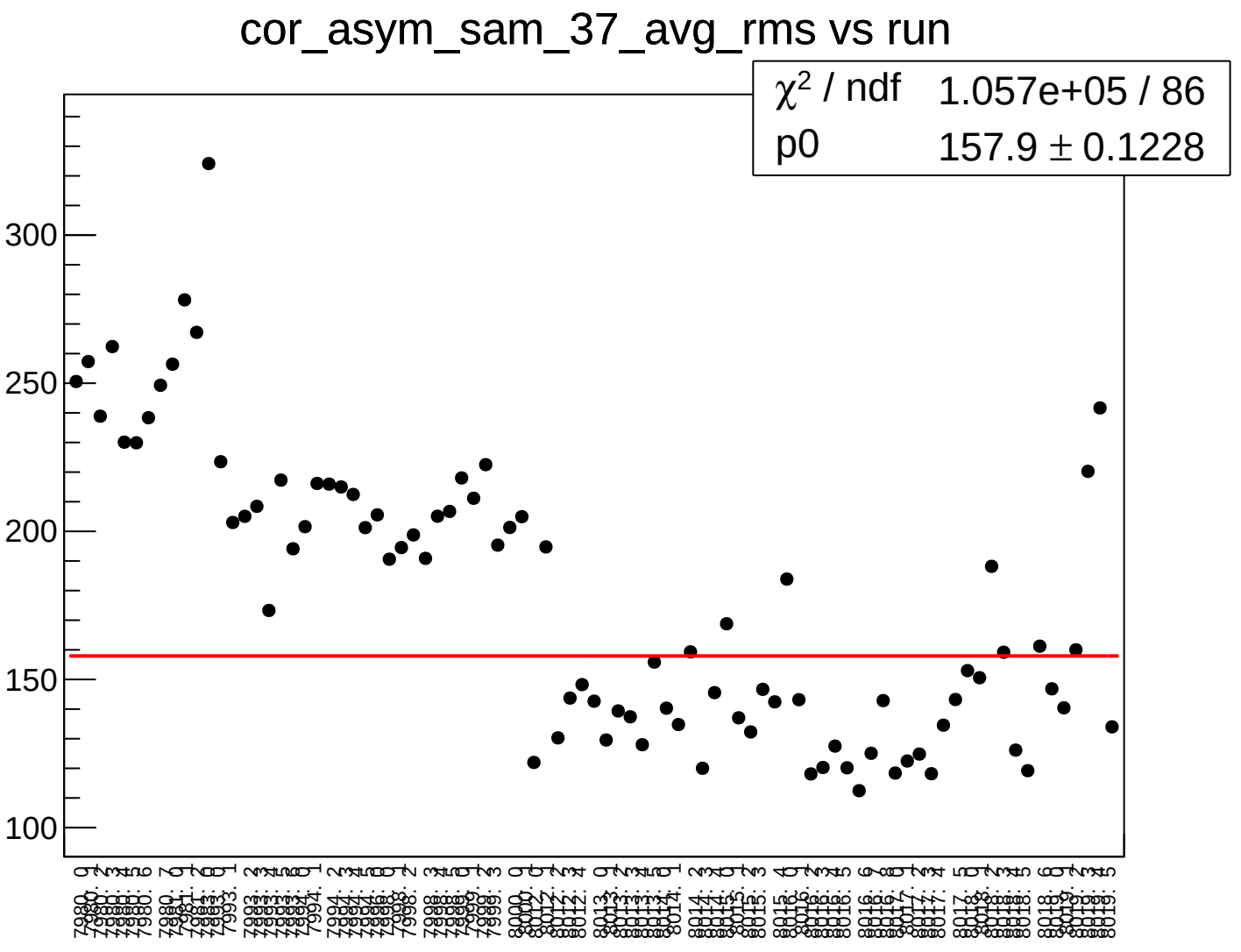

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 117.3 / 86
p0 1772 ± 1569
pull
Entries 87
Mean −15.23
Std Dev 13.86

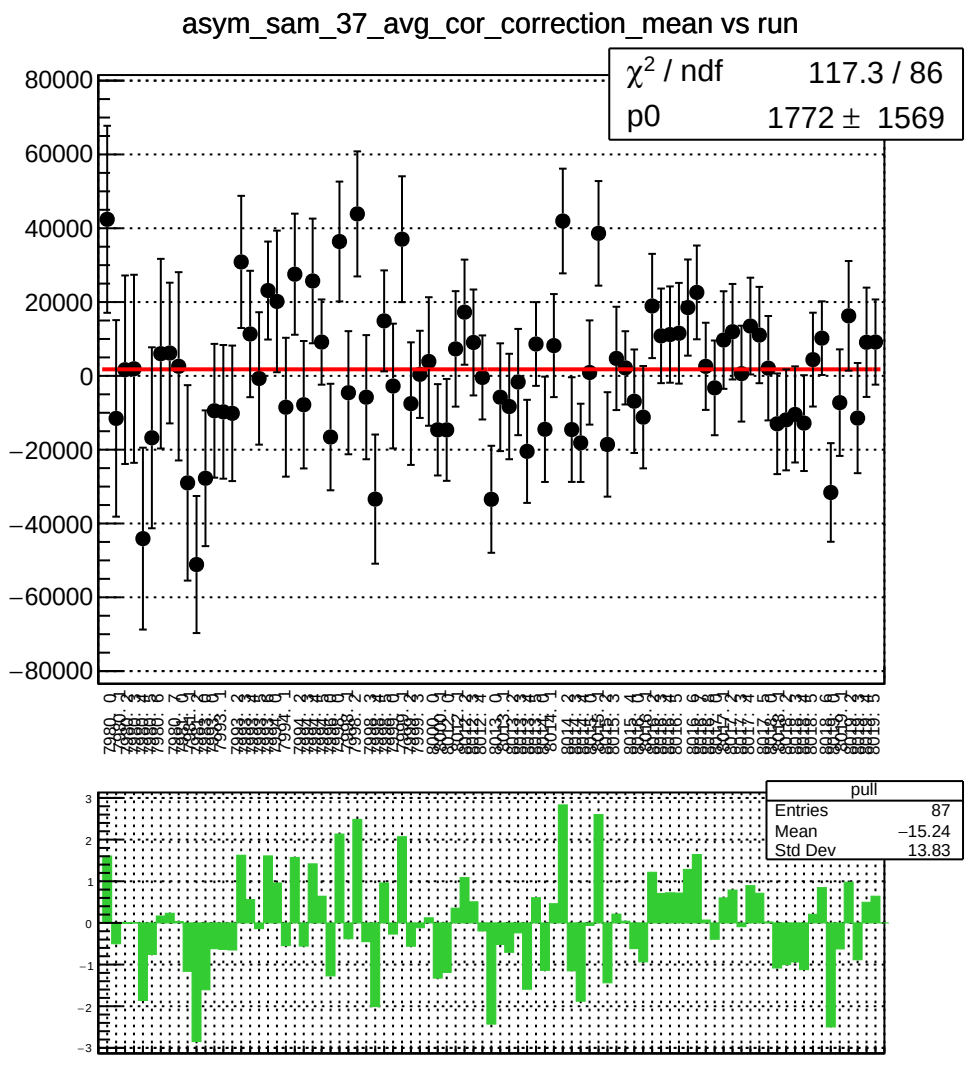

pull1D
Entries 87
Mean −0.0178
Std Dev 1.161

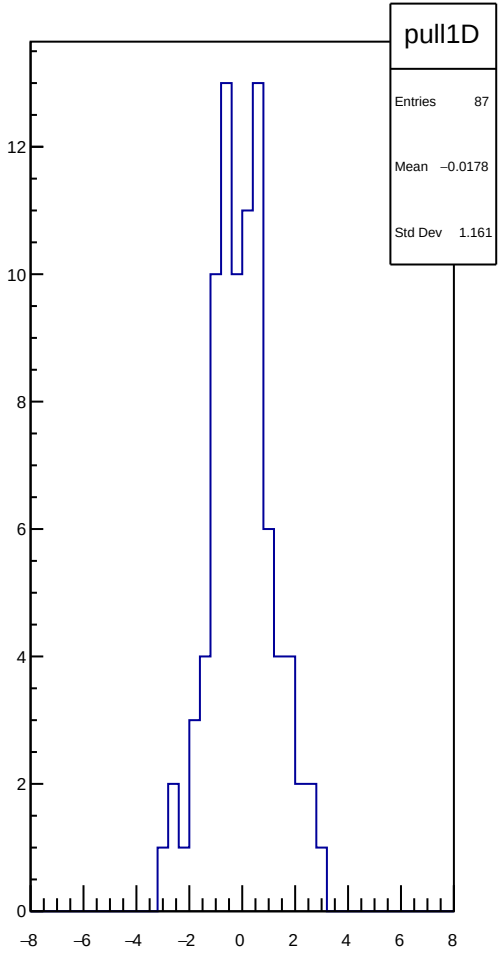

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 6.07e+04 / 86
p0 1446 ± 1.109
2600
2400
2200
2000
1800
1600
1400
1200

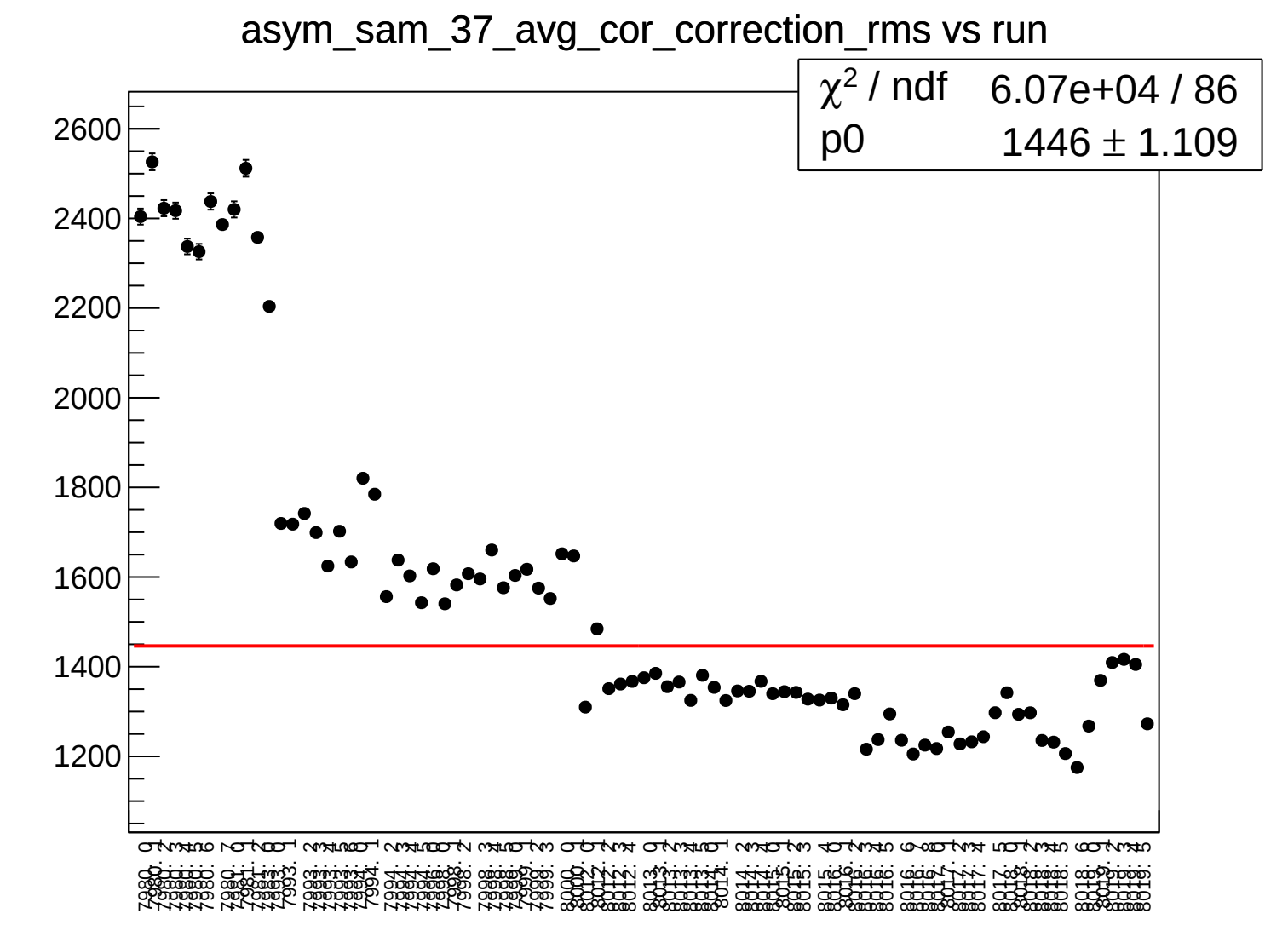

cor_asym_sam_37_avg_mean vs run
χ² / ndf 65.38 / 86
p0 −187.4 ± 173.6
pull
Entries 87
Mean −86.32
Std Dev 0

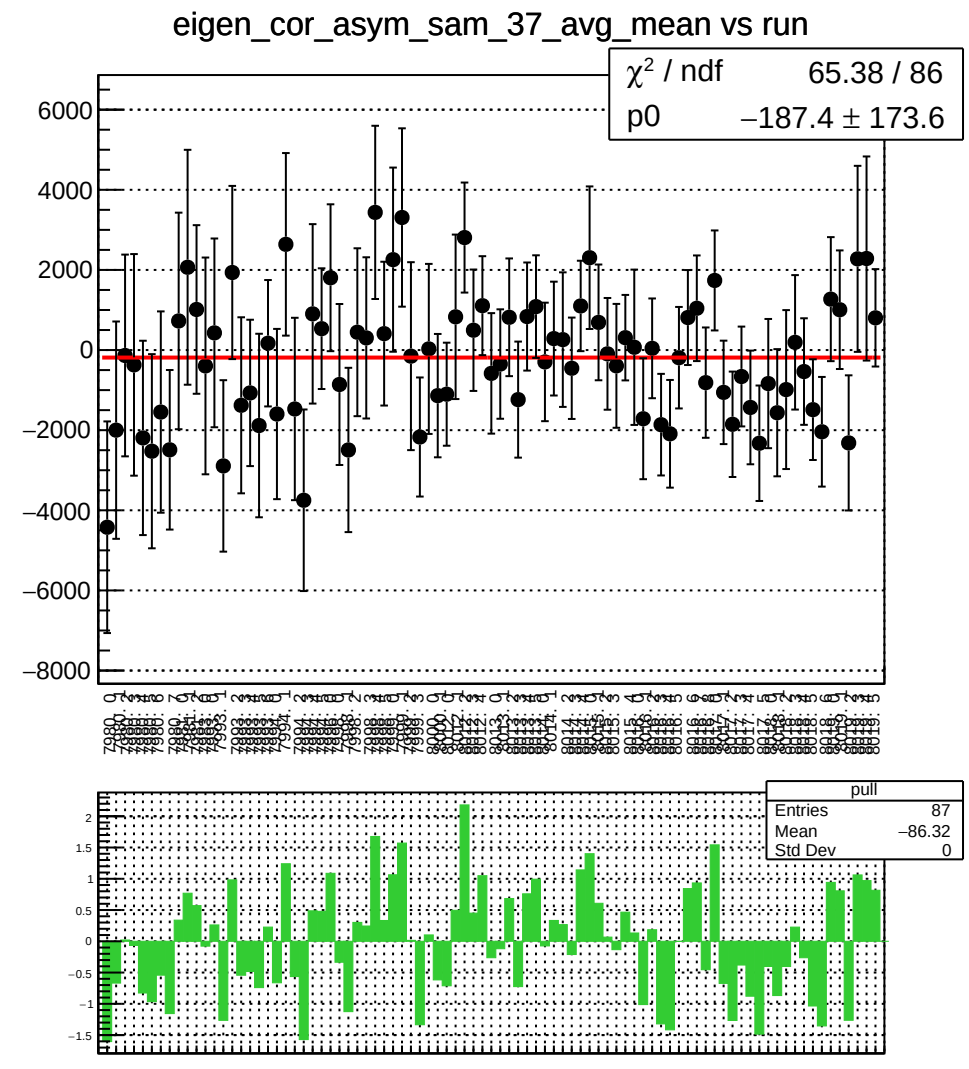

pull1D
Entries 87
Mean −0.008407
Std Dev 0.8669

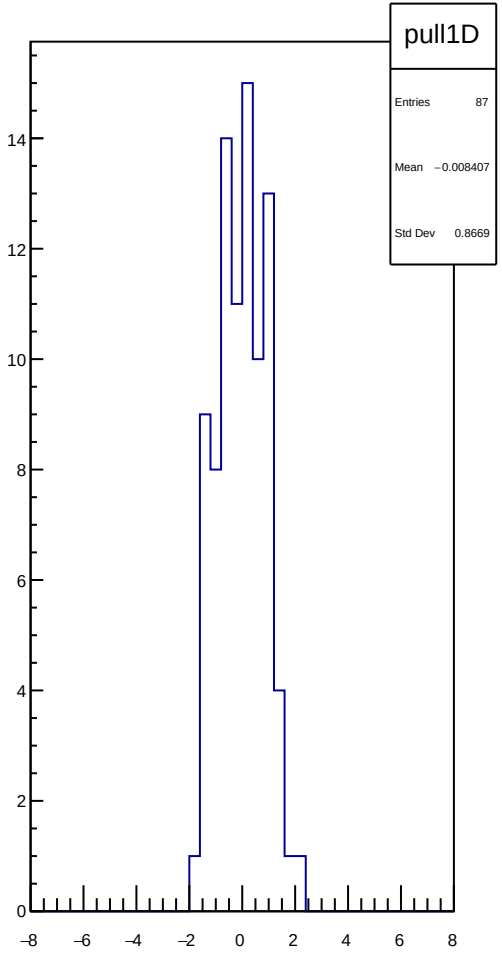

cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.057e+05 / 86
p0 157.9 ± 0.1228
300
250
200
150
100

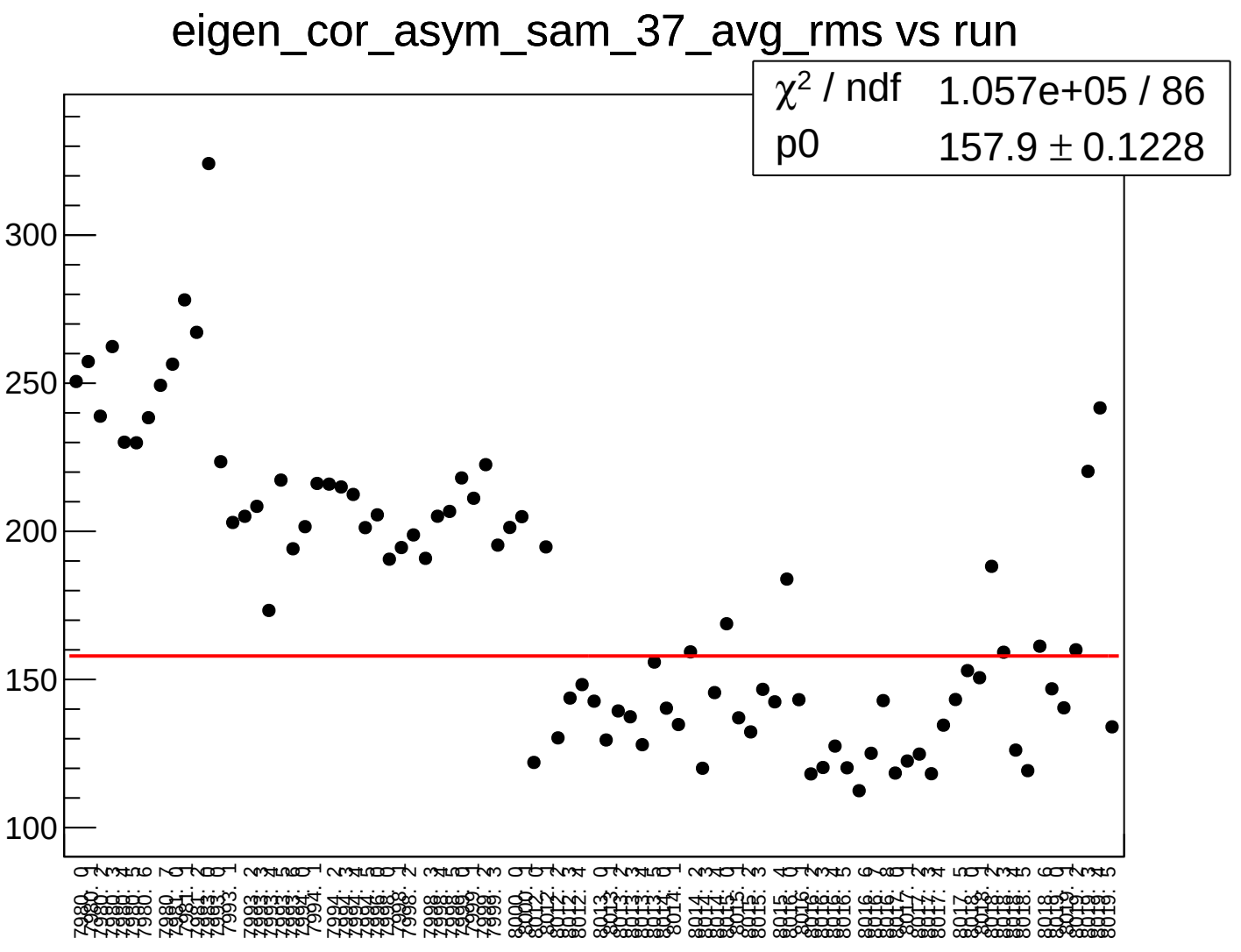

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 117.3 / 86
p0 1772 ± 1569
pull
Entries 87
Mean −15.24
Std Dev 13.83

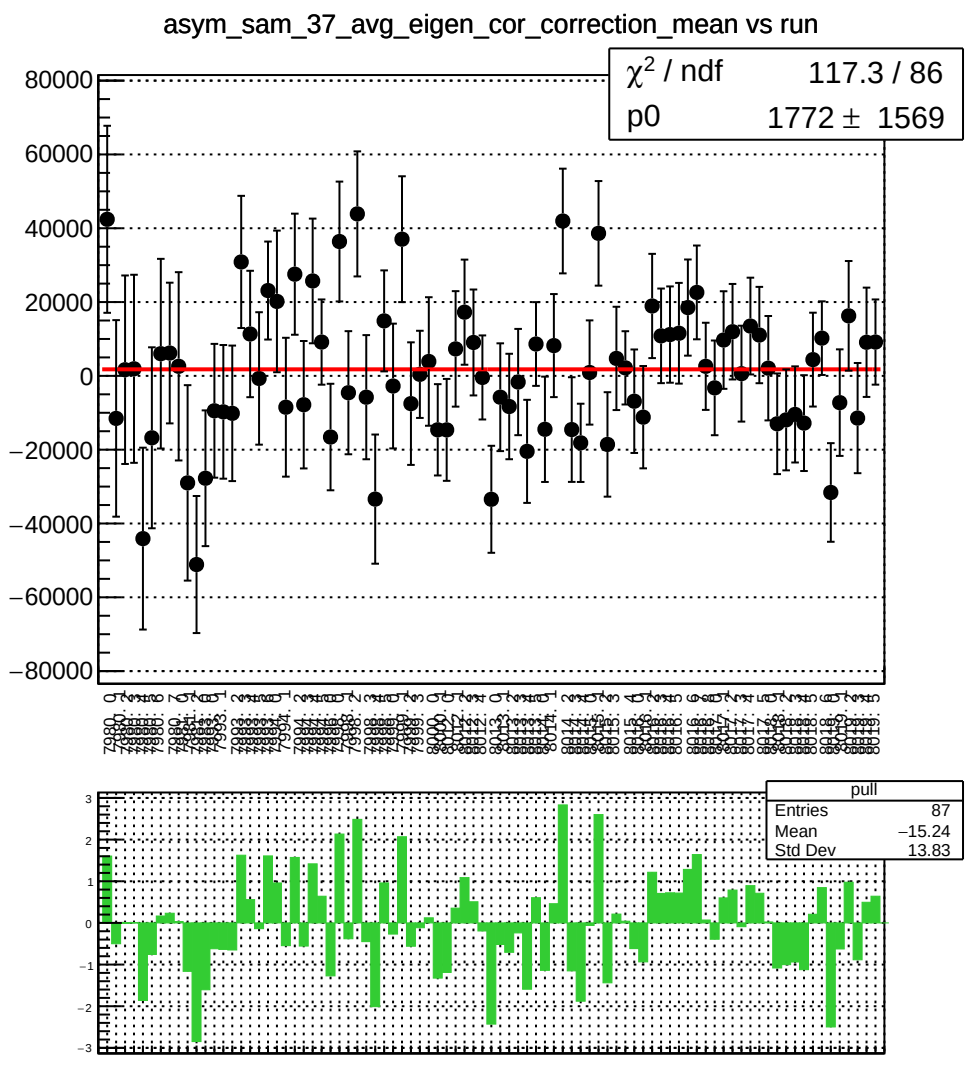

pull1D
Entries 87
Mean −0.0178
Std Dev 1.161

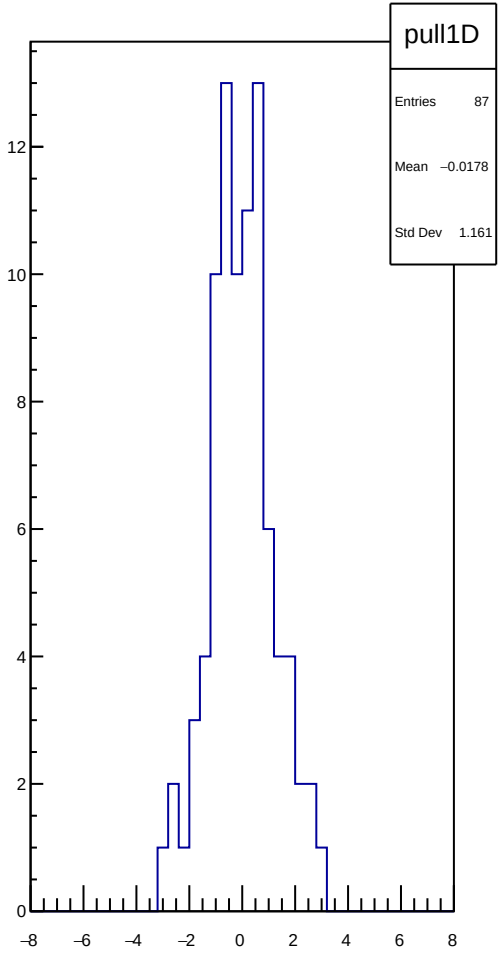

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 6.07e+04 / 86
p0 1446 ± 1.109
2600
2400
2200
2000
1800
1600
1400
1200

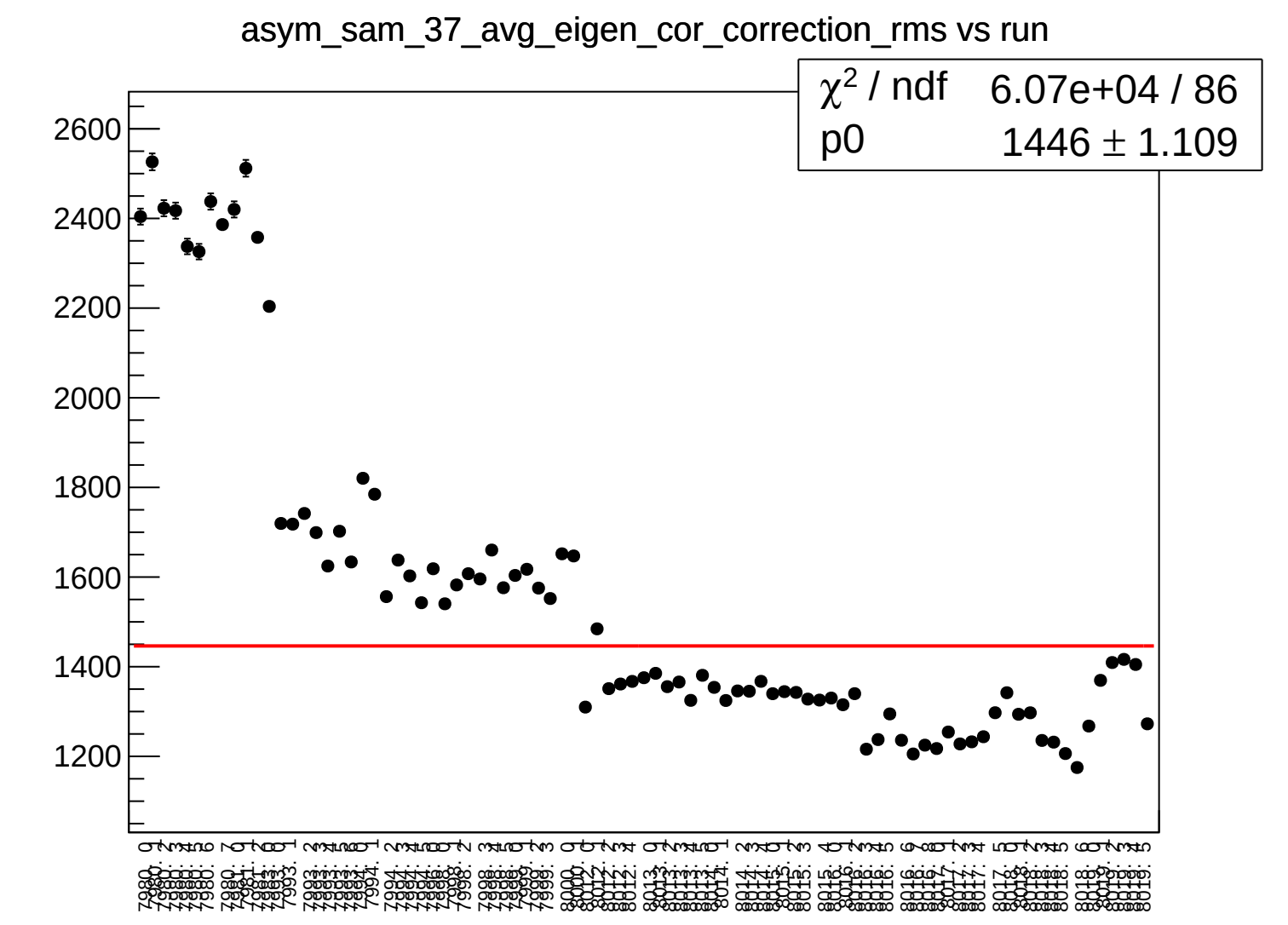

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 65.38 / 86
p0 −187.4 ± 173.6
pull
Entries 87
Mean −86.32
Std Dev 0

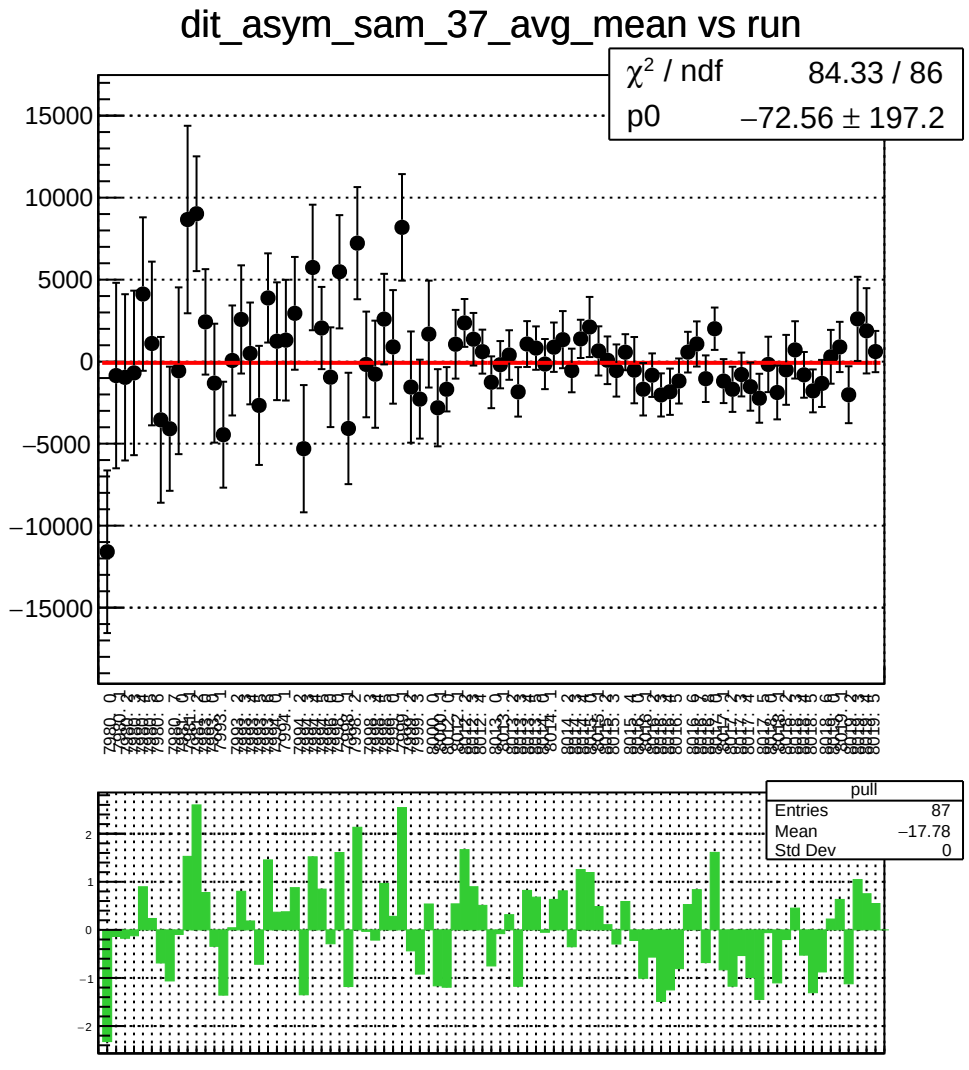

pull1D
Entries 87
Mean −0.008407
Std Dev 0.8669

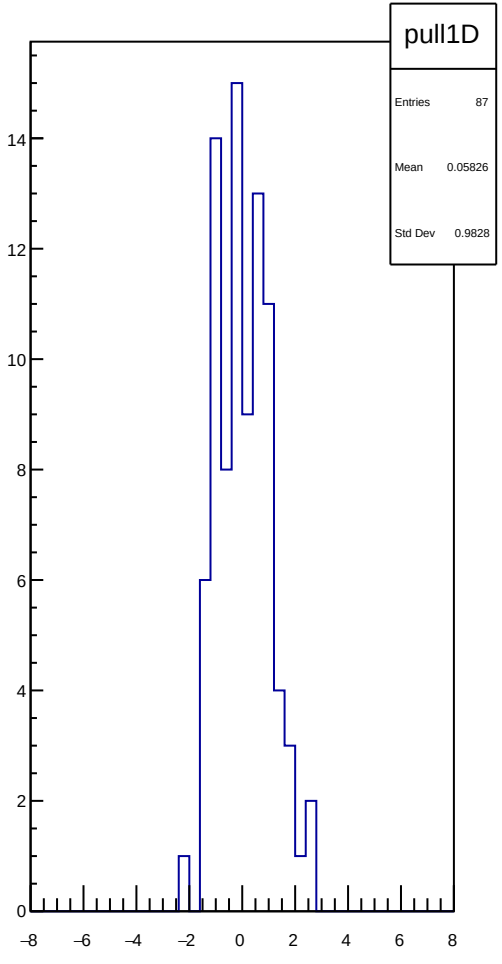

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.057e+05 / 86
p0 157.9 ± 0.1228
300
250
200
150
100

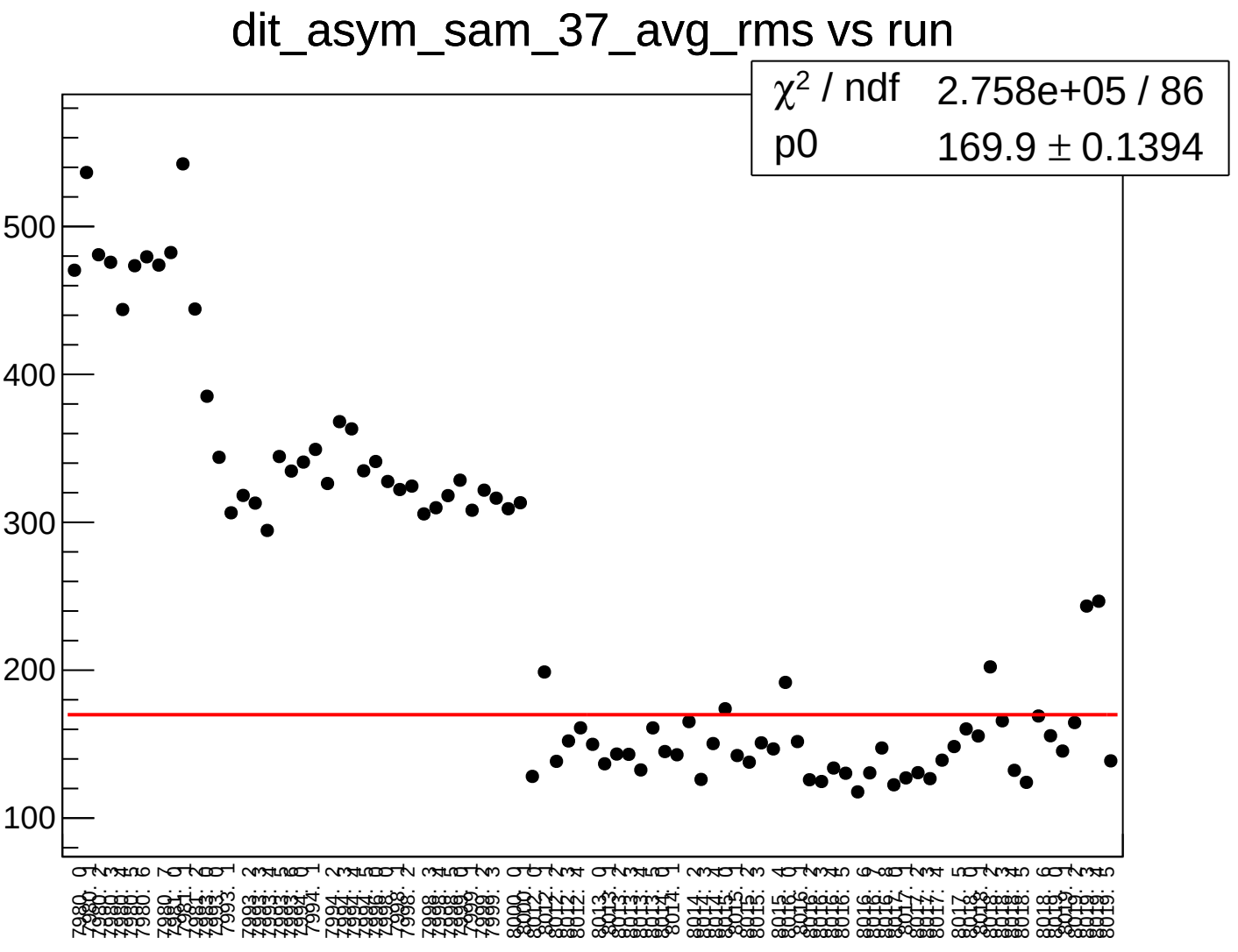

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 117.3 / 86
p0 1772 ± 1569
pull
Entries 87
Mean −15.24
Std Dev 13.83

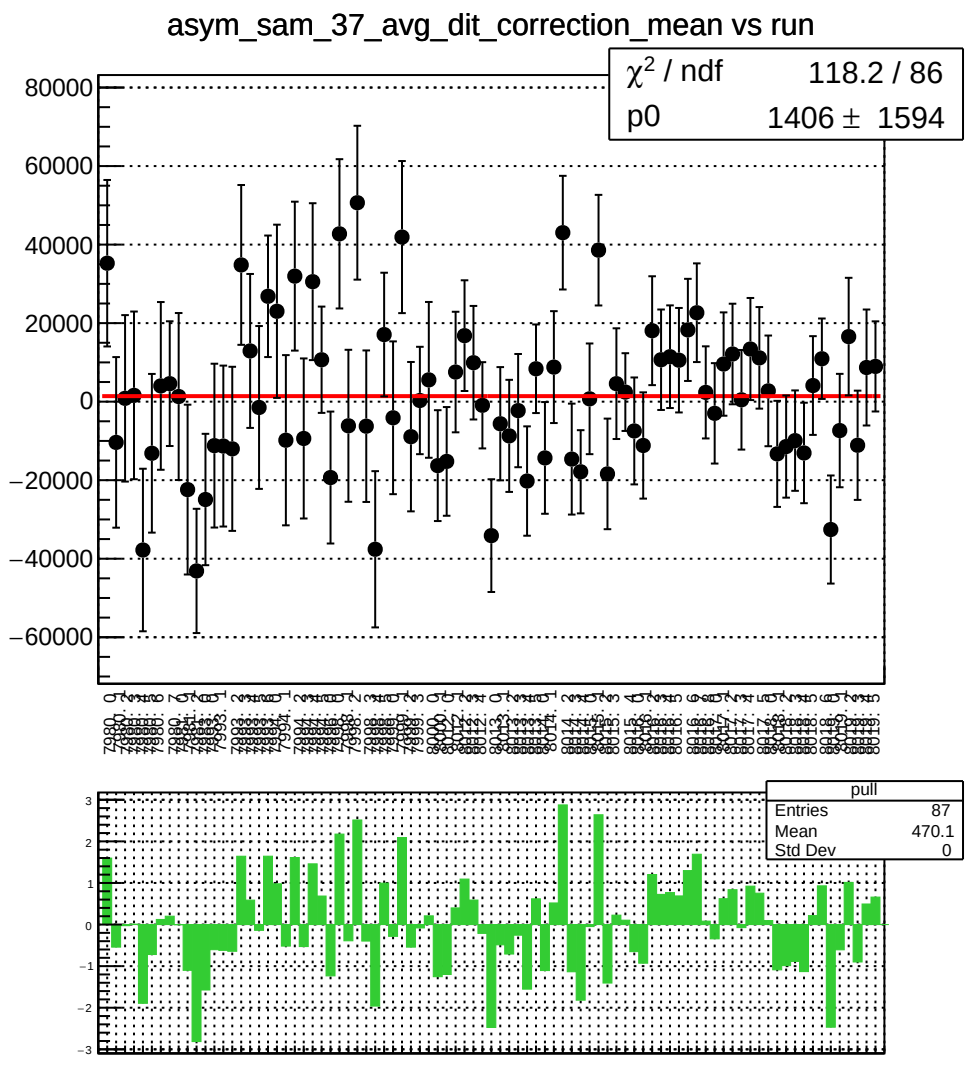

pull1D
Entries 87
Mean −0.0178
Std Dev 1.161

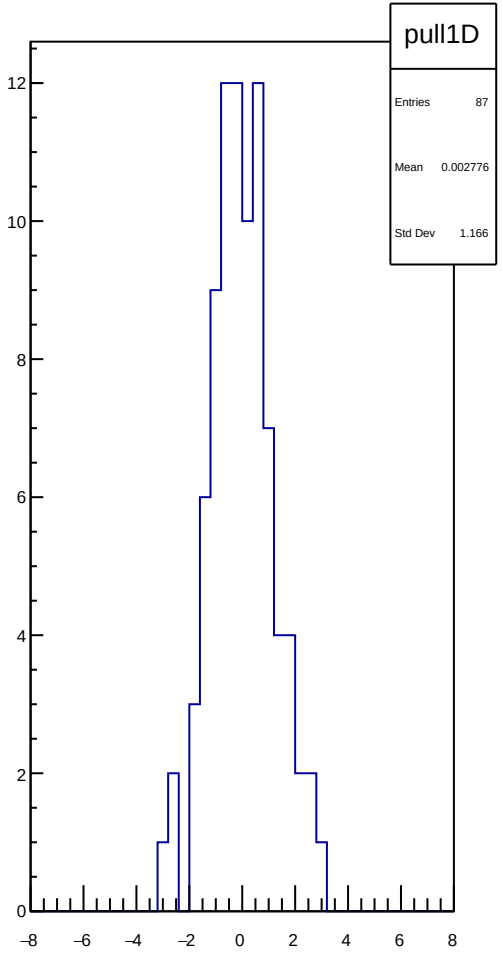

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 6.07e+04 / 86
p0 1446 ± 1.109
2600
2400
2200
2000
1800
1600
1400
1200

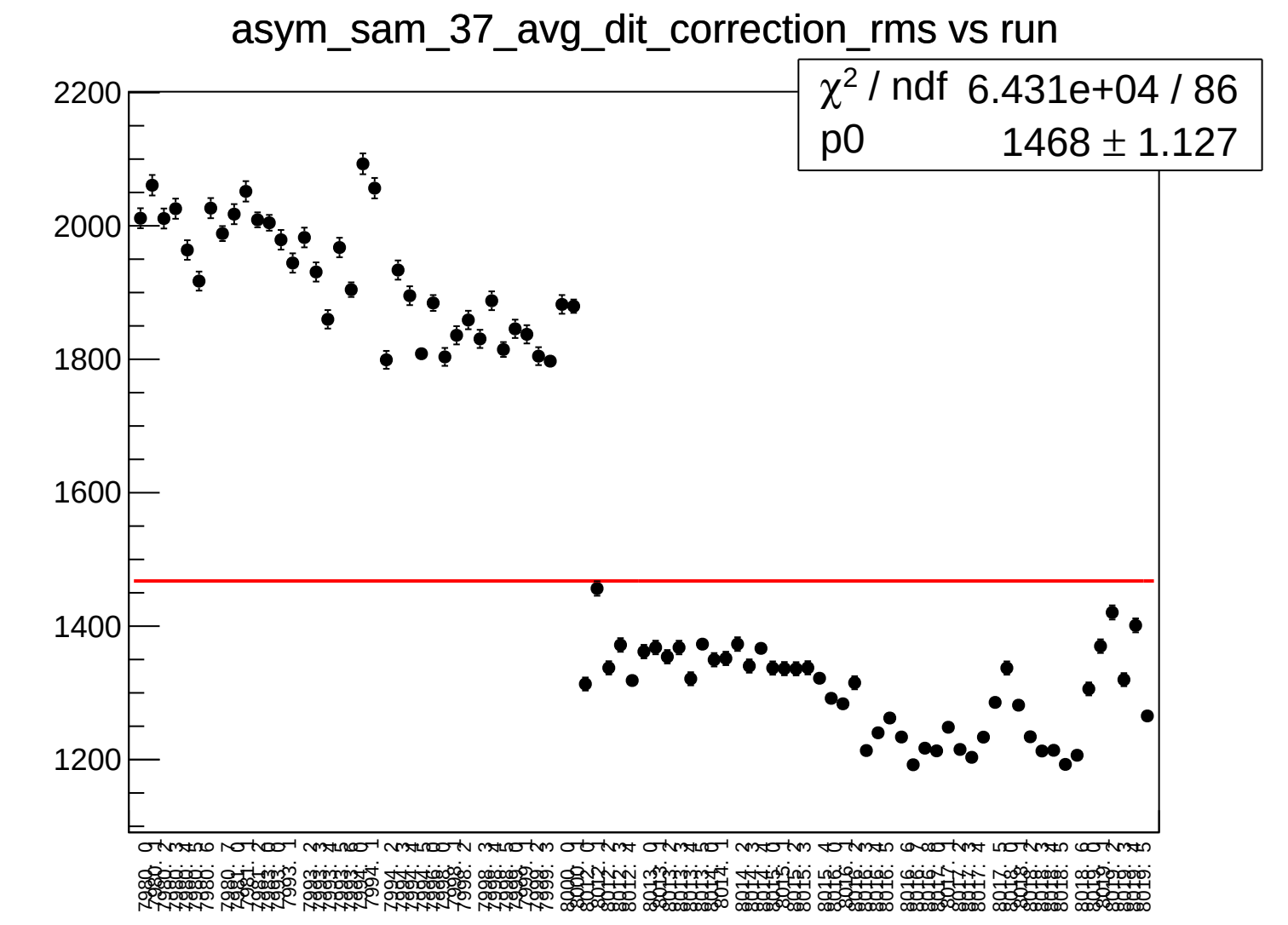

dit_asym_sam_37_avg_mean vs run
χ² / ndf 84.33 / 86
p0 −72.56 ± 197.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −17.78
Std Dev 0
2
1
0
−1
−2

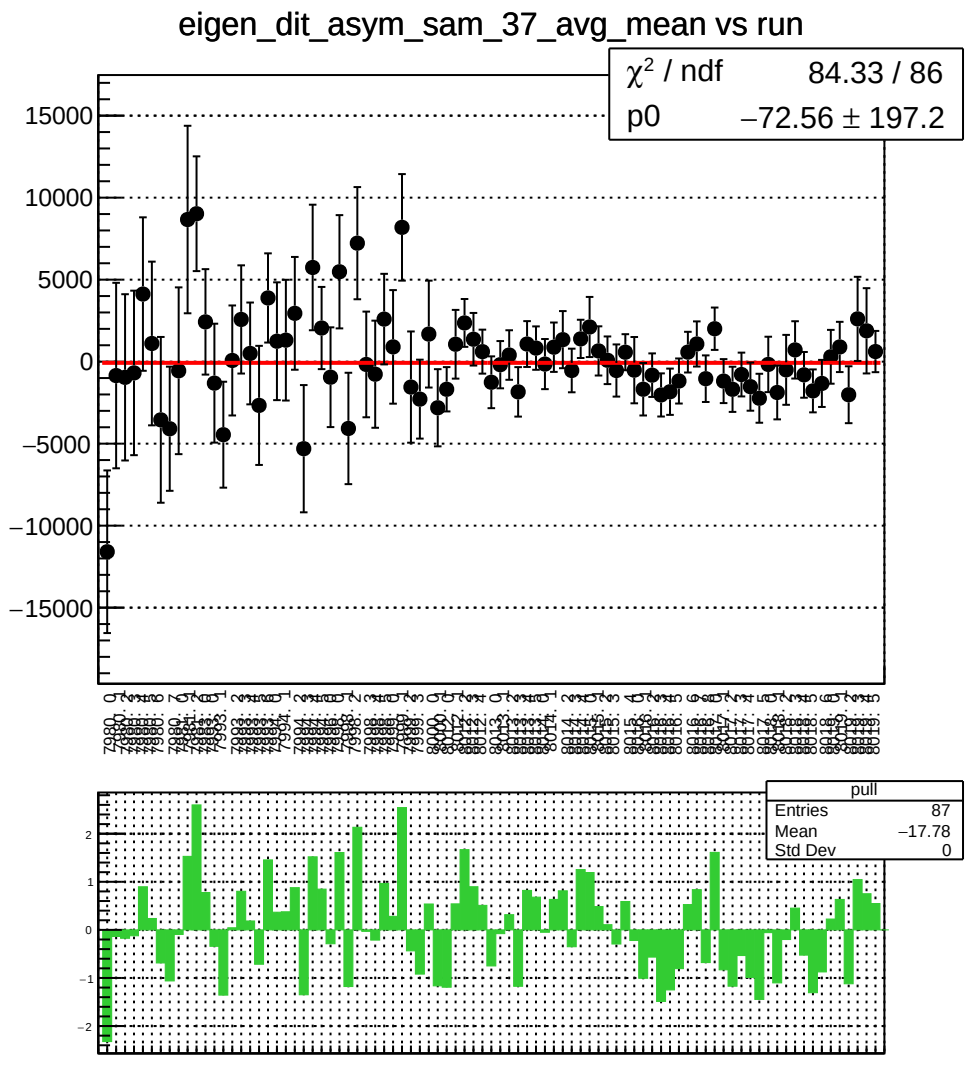

pull1D
Entries 87
Mean 0.05826
Std Dev 0.9828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

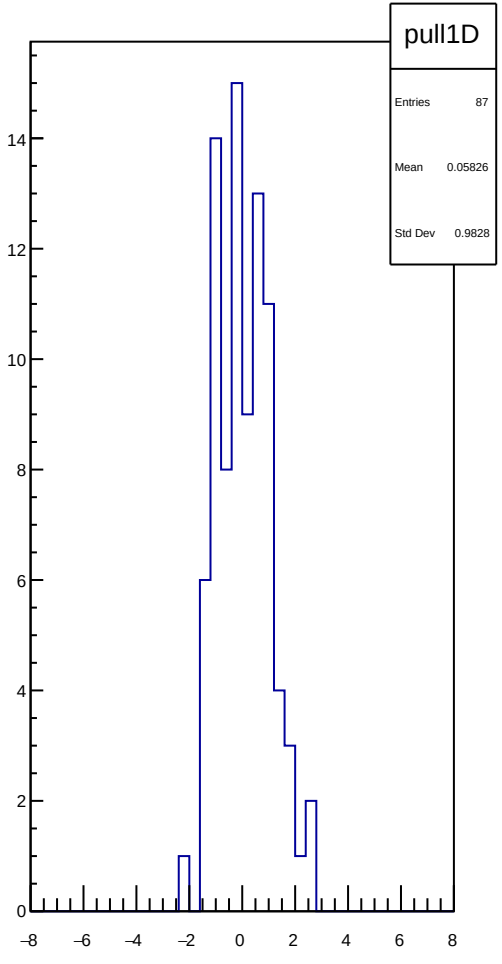

dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.758e+05 / 86
p0 169.9 ± 0.1394
500
400
300
200
100

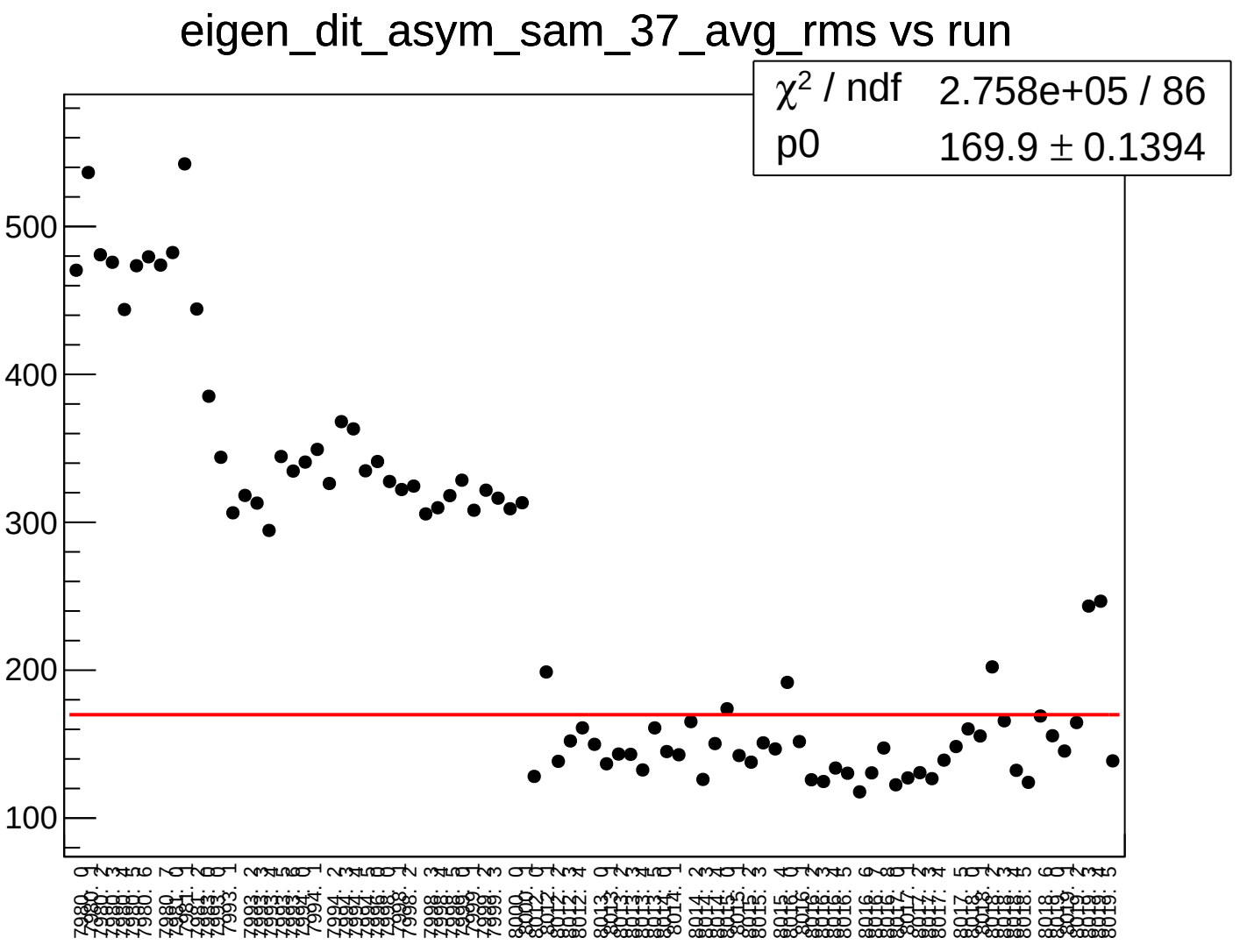

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 118.2 / 86
p0 1406 ± 1594
pull
Entries 87
Mean 470.1
Std Dev 0

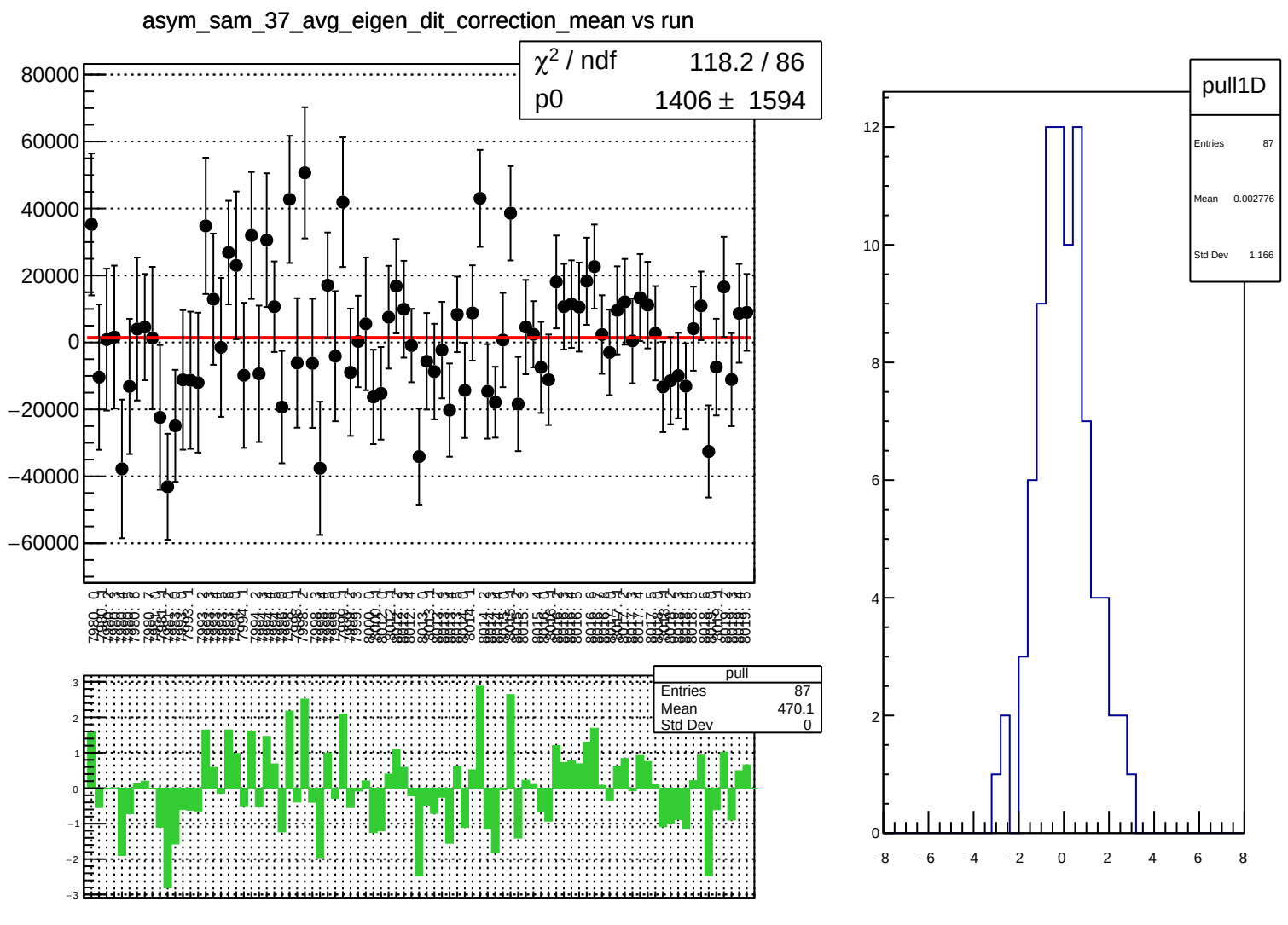

pull1D
Entries 87
Mean 0.002776
Std Dev 1.166

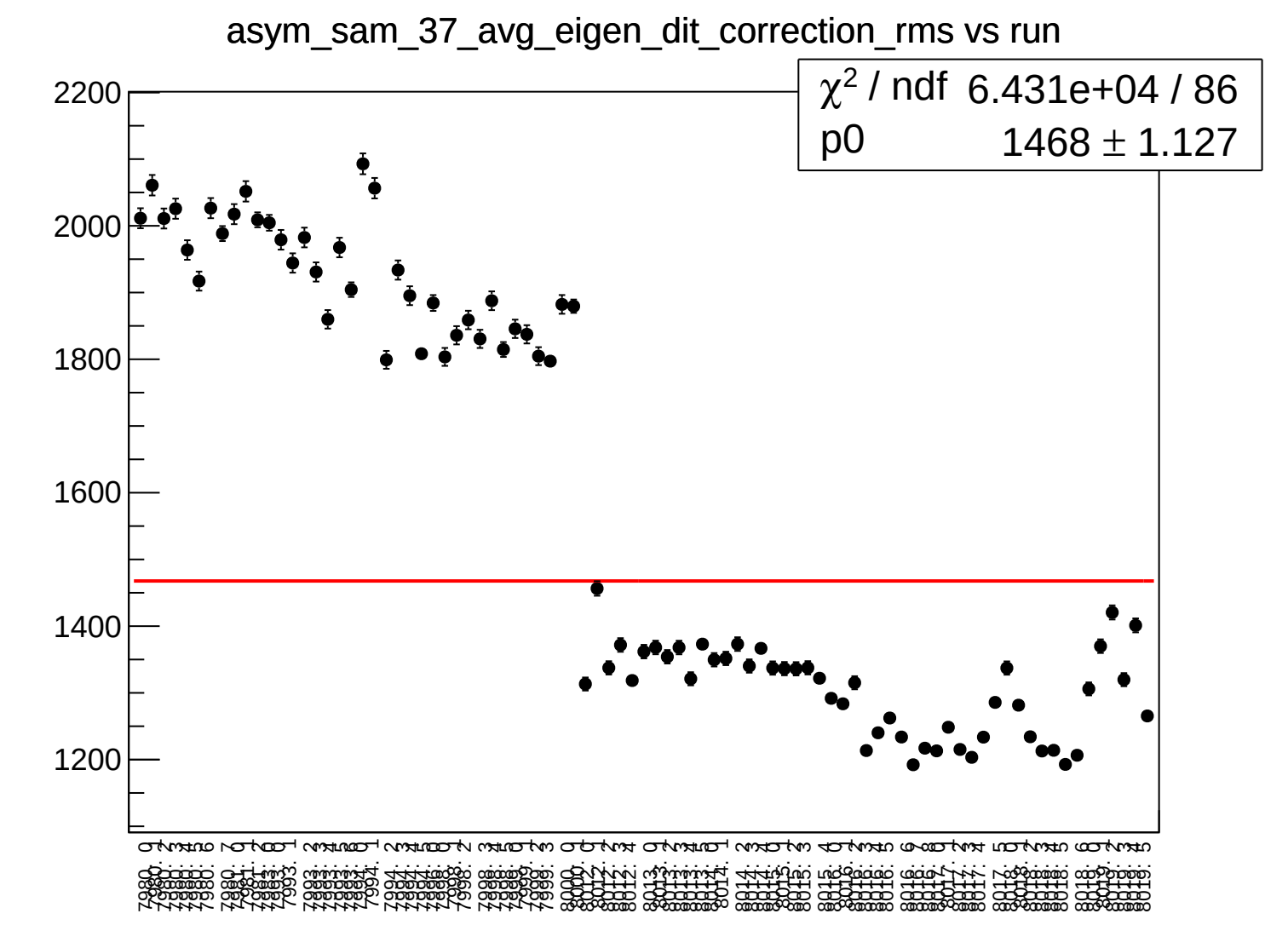

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 6.431e+04 / 86
p0 1468 ± 1.127
2200
2000
1800
1600
1400
1200

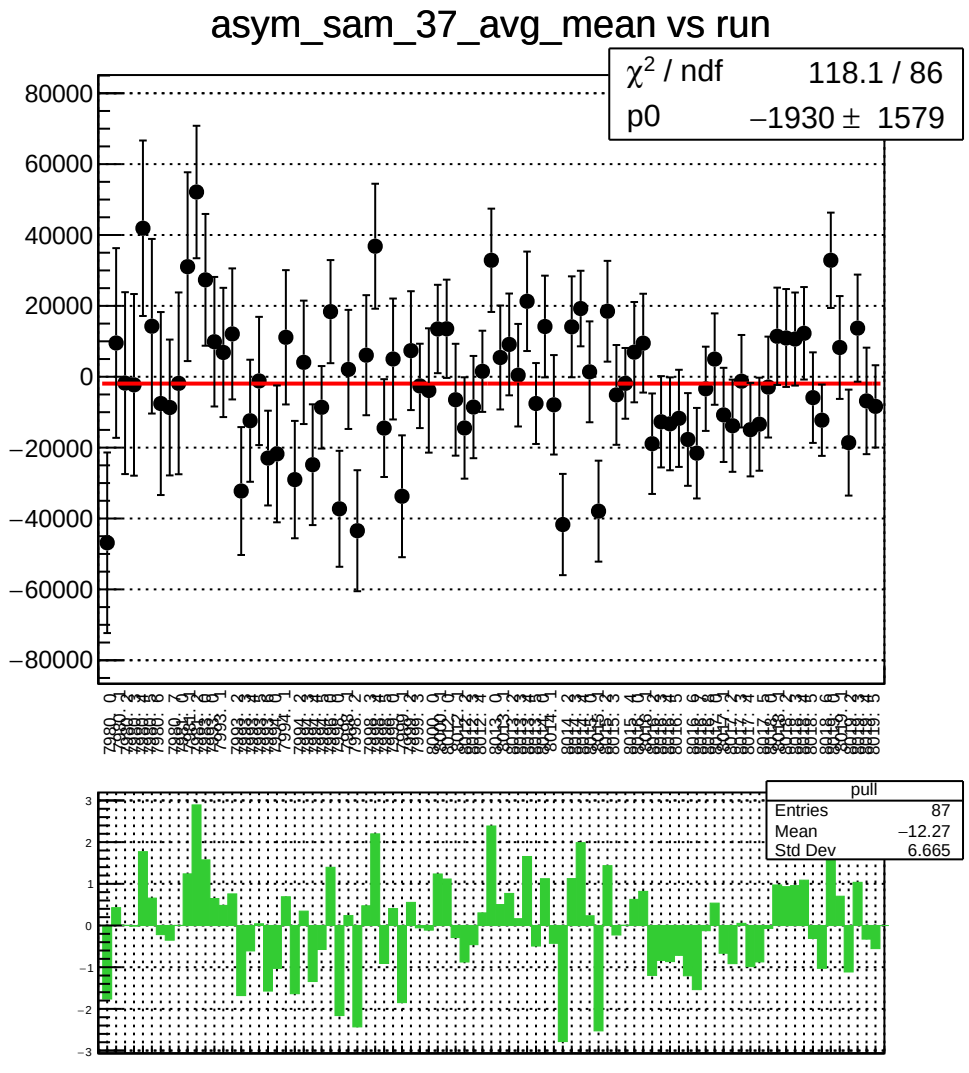

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 84.33 / 86
p0 −72.56 ± 197.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −17.78
Std Dev 0
2
1
0
−1
−2

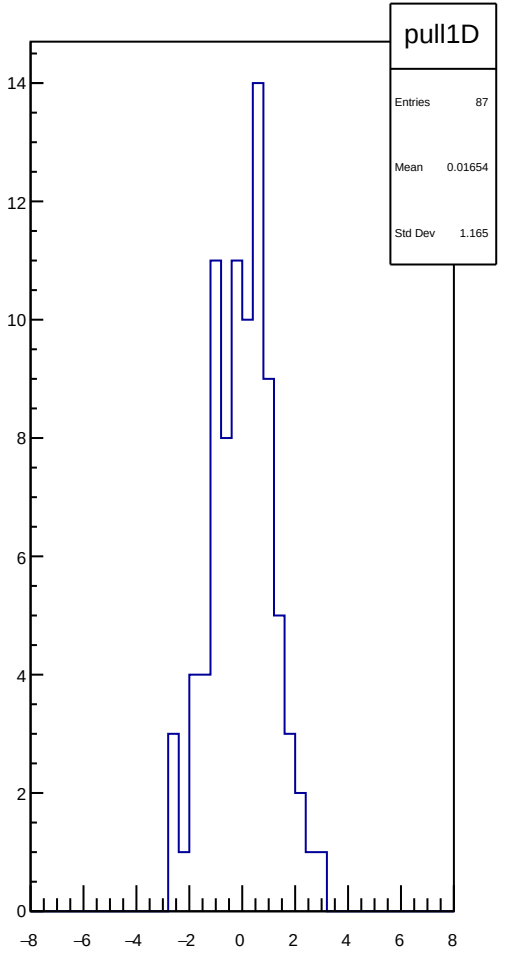

pull1D
Entries 87
Mean 0.05826
Std Dev 0.9828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

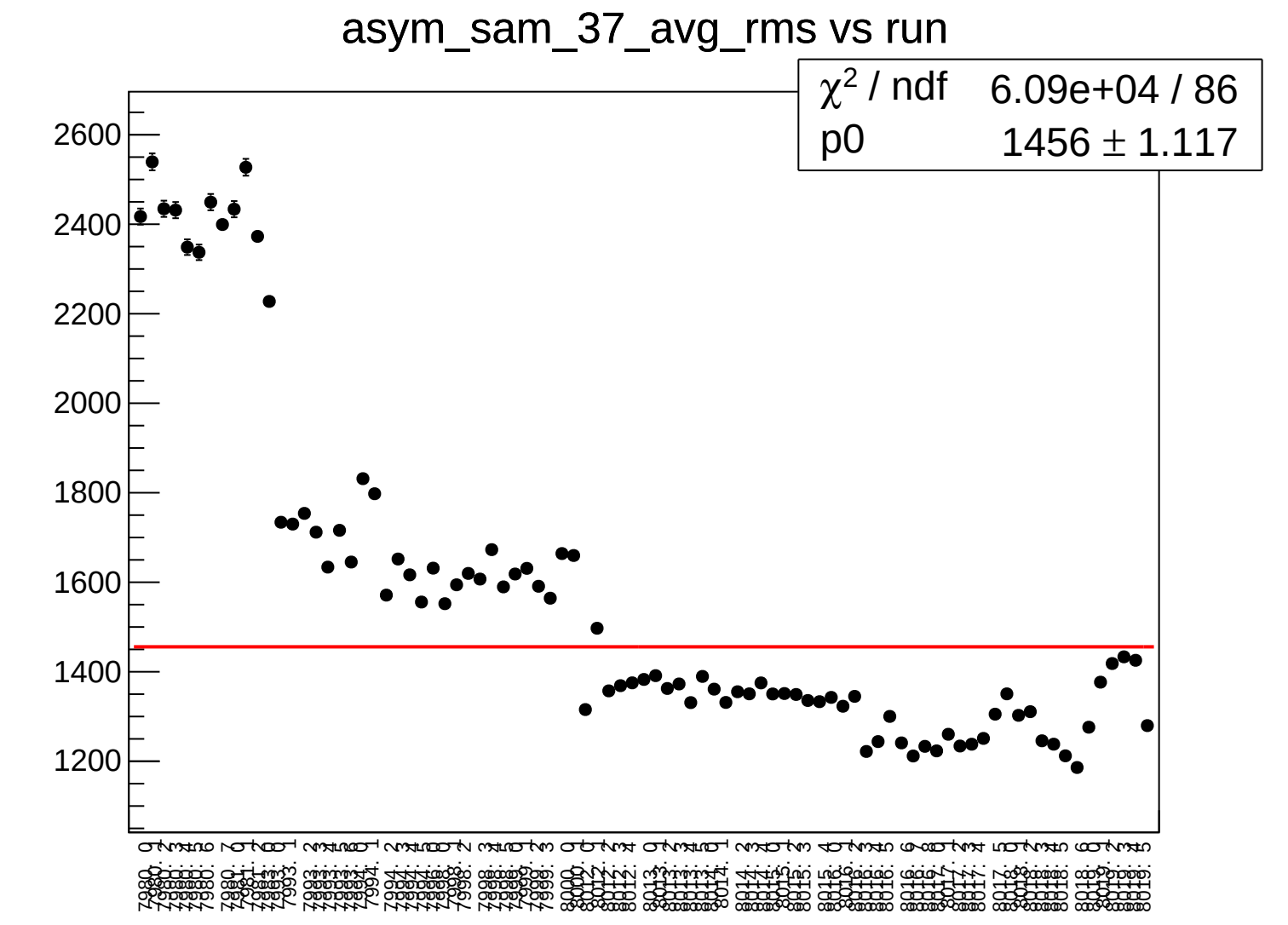

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.758e+05 / 86
p0 169.9 ± 0.1394
500
400
300
200
100

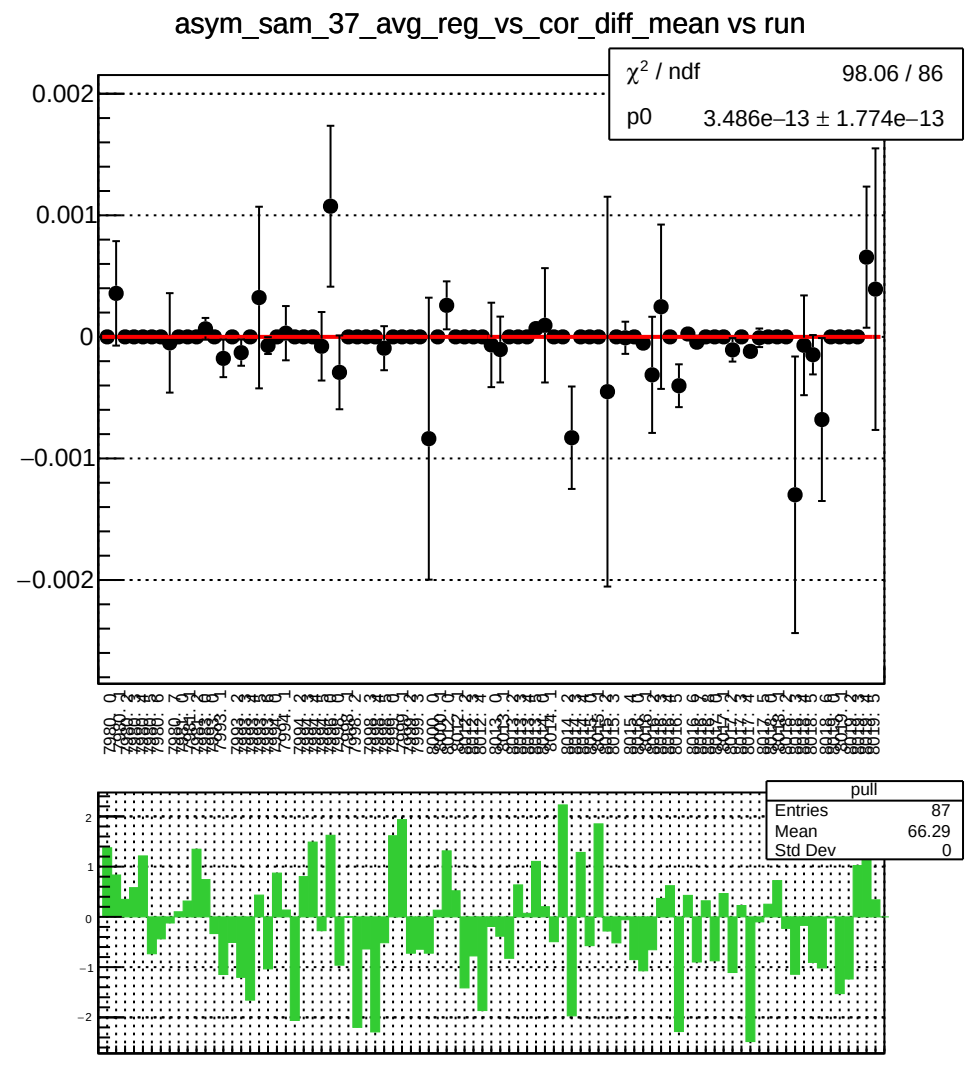

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 118.2 / 86
p0 1406 ± 1594
pull
Entries 87
Mean 470.1
Std Dev 0
pull1D
Entries 87
Mean 0.002776
Std Dev 1.166

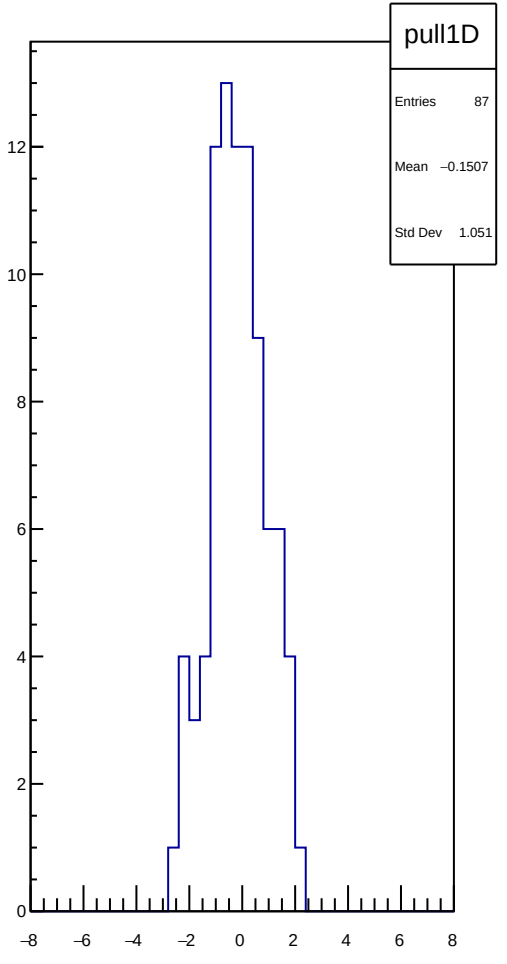

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.431e+04 / 86
p0 1468 ± 1.127
2200
2000
1800
1600
1400
1200

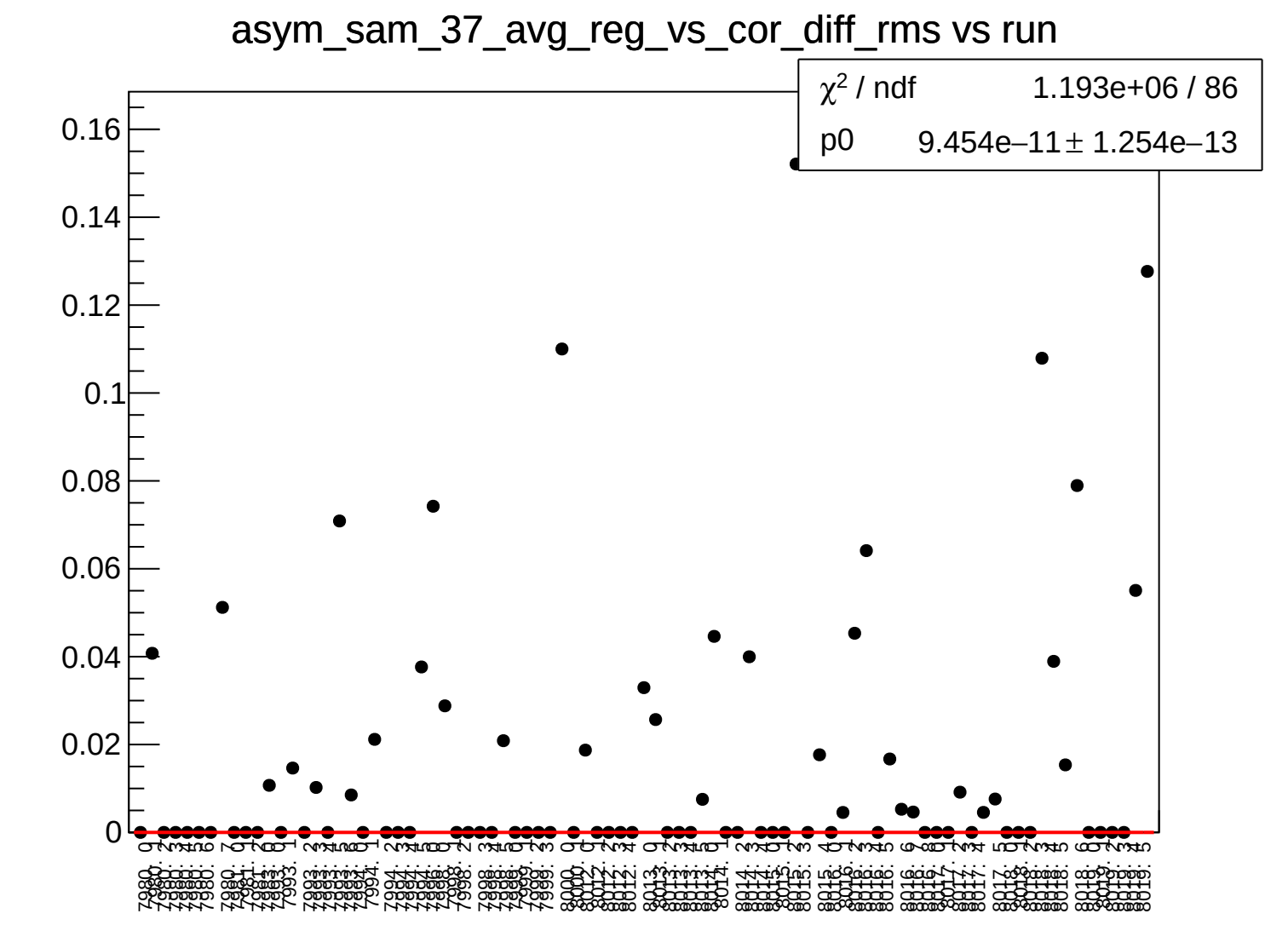

asym_sam_37_avg_mean vs run
χ² / ndf 118.1 / 86
p0 −1930 ± 1579
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −12.27
Std Dev 6.665
3
2
1
0
−1
−2
−3

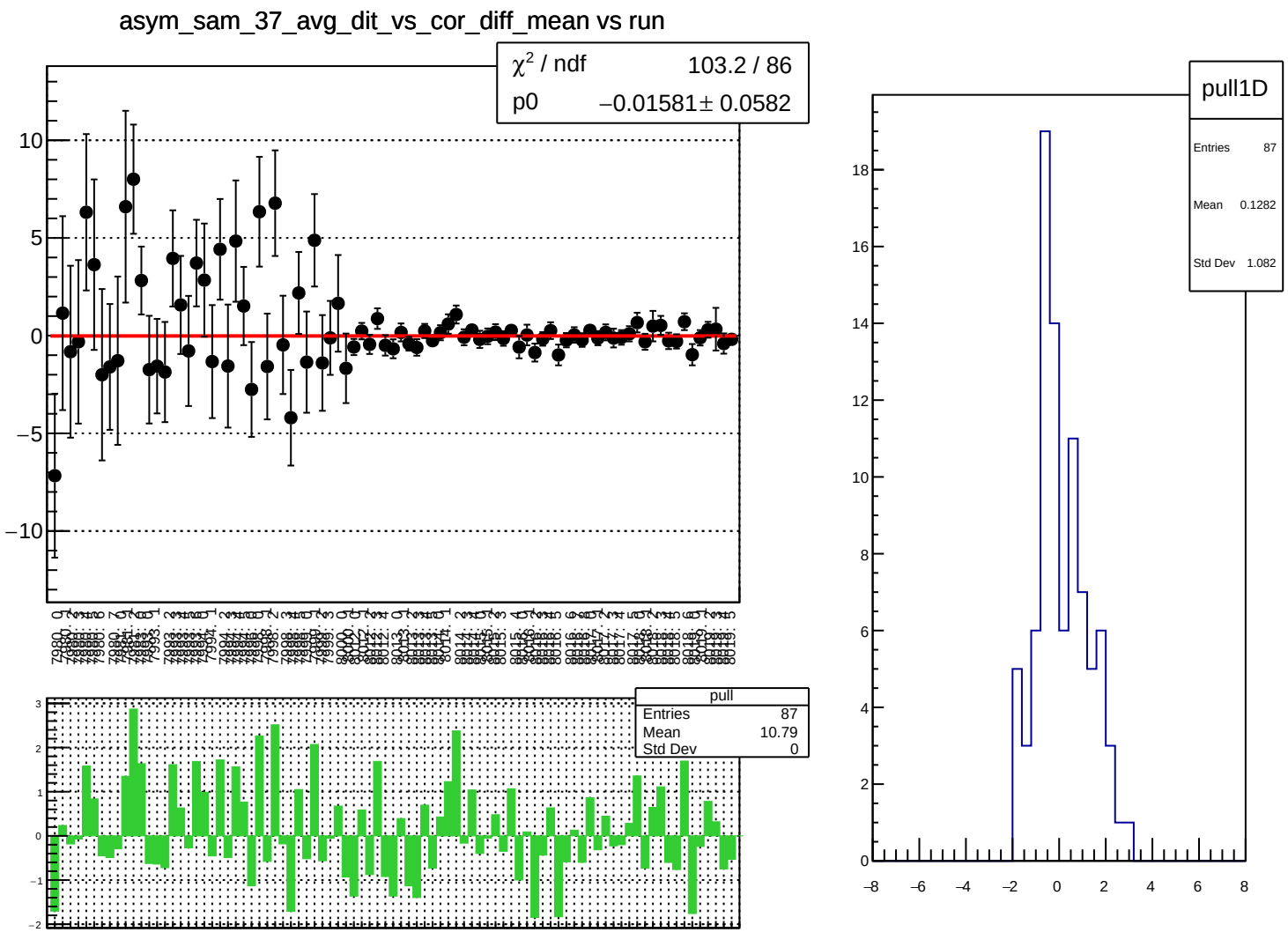

pull1D
Entries 87
Mean 0.01654
Std Dev 1.165
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

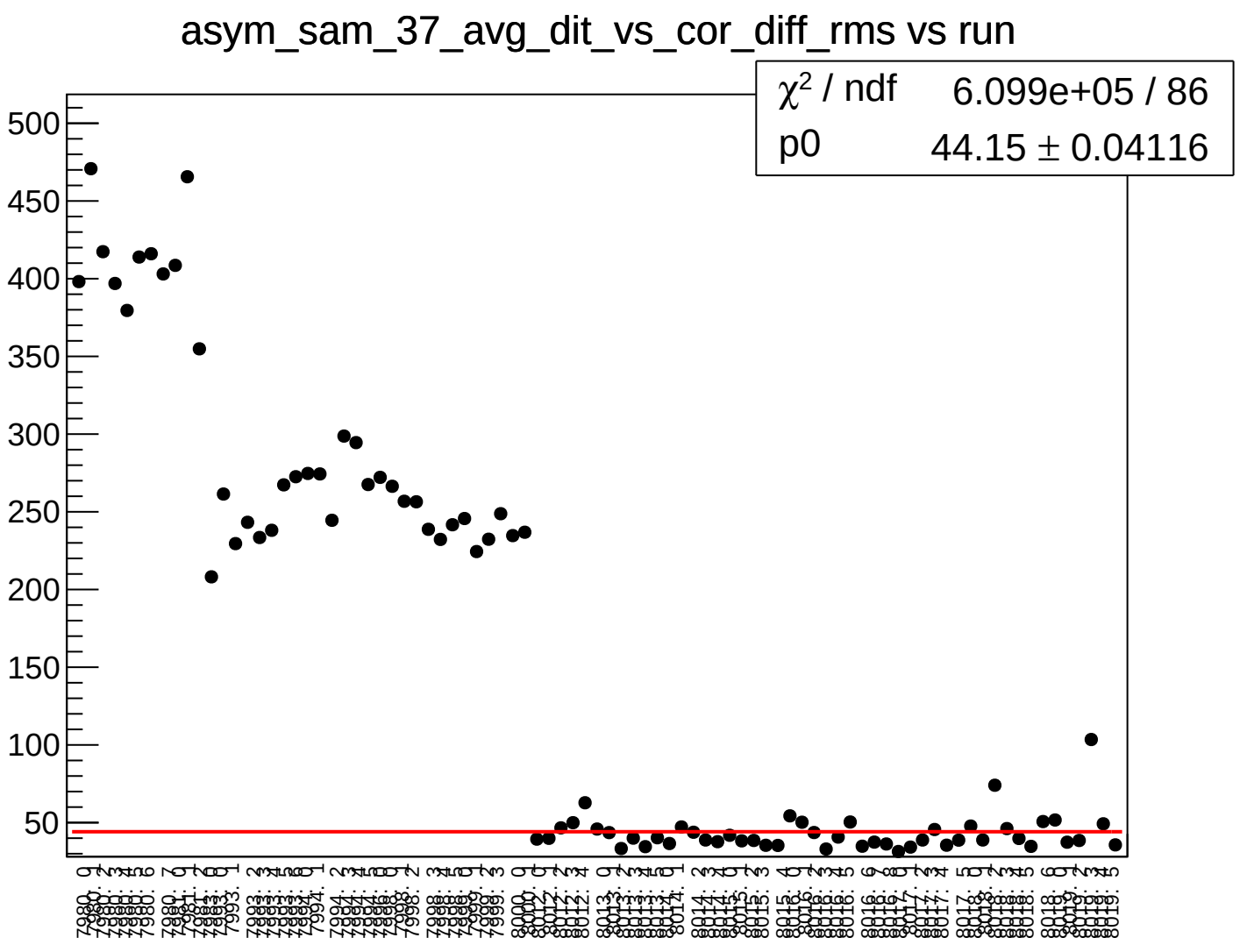

asym_sam_37_avg_rms vs run
χ^2 / ndf 6.09e+04 / 86
p0 1456 ± 1.117
2600
2400
2200
2000
1800
1600
1400
1200

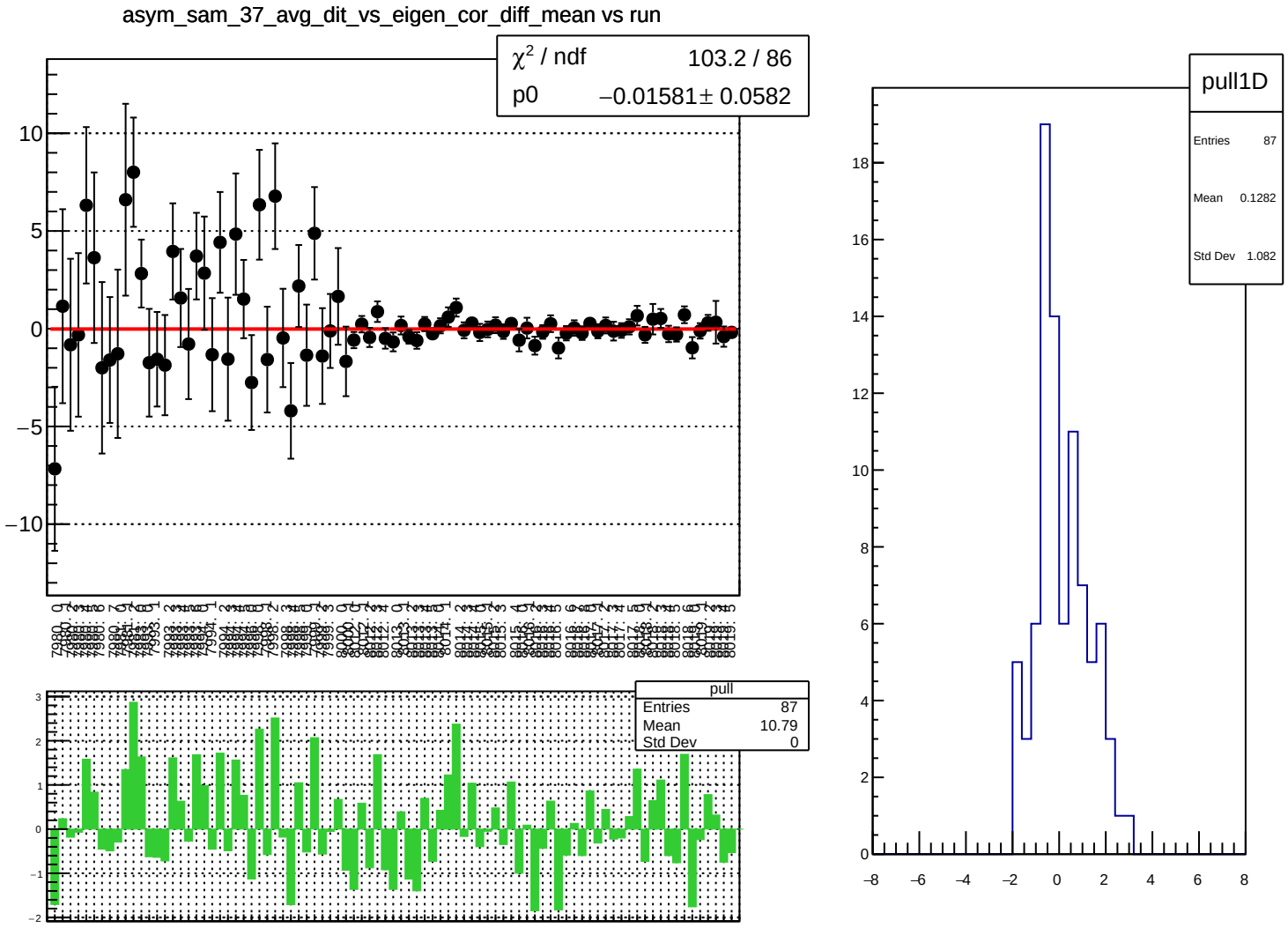

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.06 / 86
p0 3.486e−13 ± 1.774e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 87
Mean 66.29
Std Dev 0
2
1
0
−1
−2

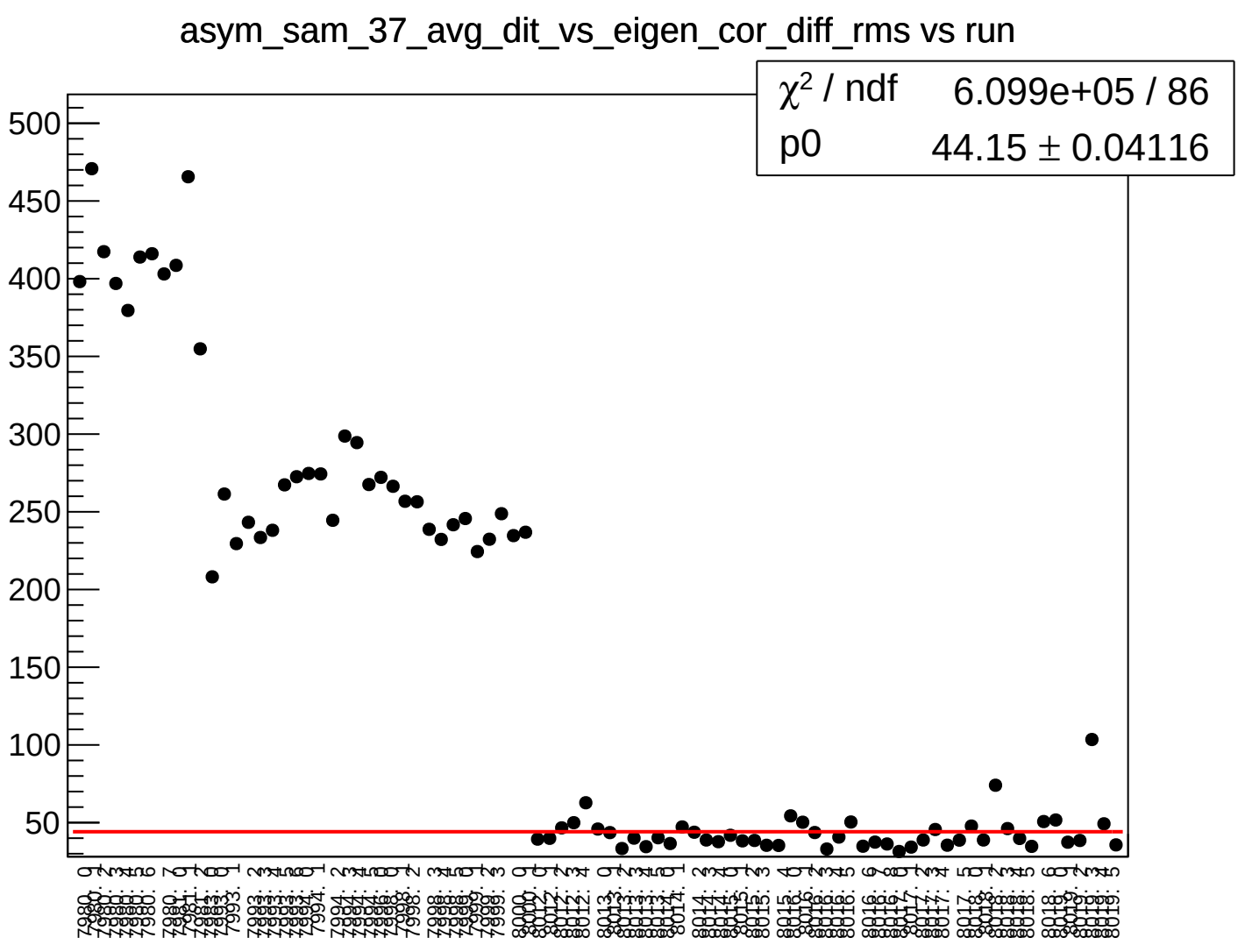

pull1D
Entries 87
Mean −0.1507
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

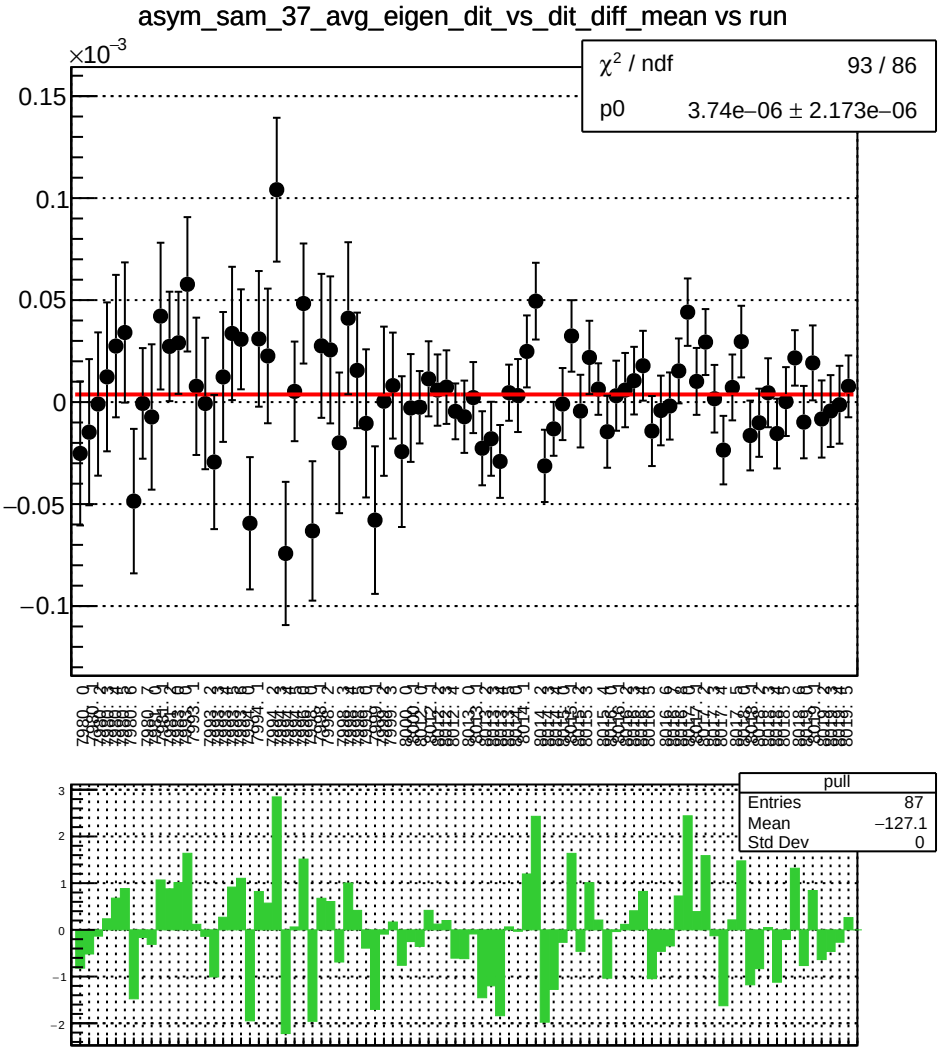

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.193e+06 / 86
p0 9.454e−11 ± 1.254e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

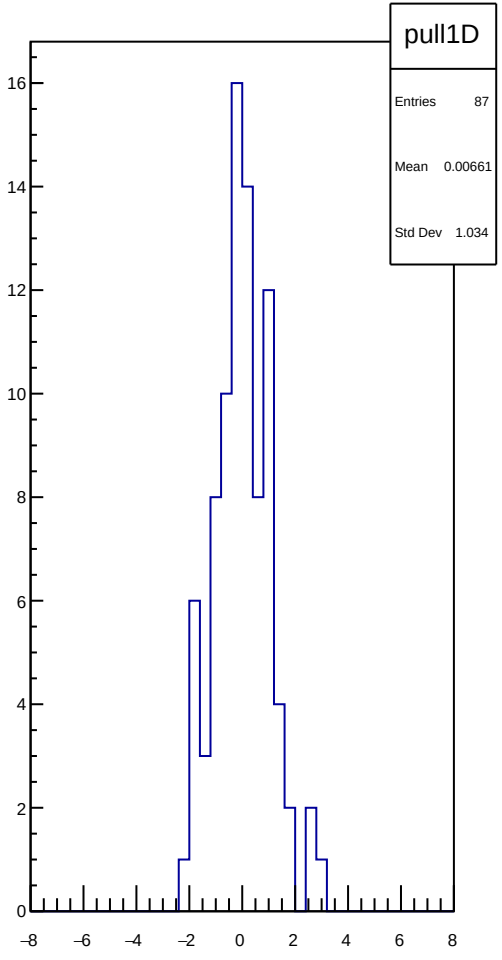

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 86
p0 −0.01581 ± 0.0582
pull
Entries 87
Mean 10.79
Std Dev 0
pull1D
Entries 87
Mean 0.1282
Std Dev 1.082

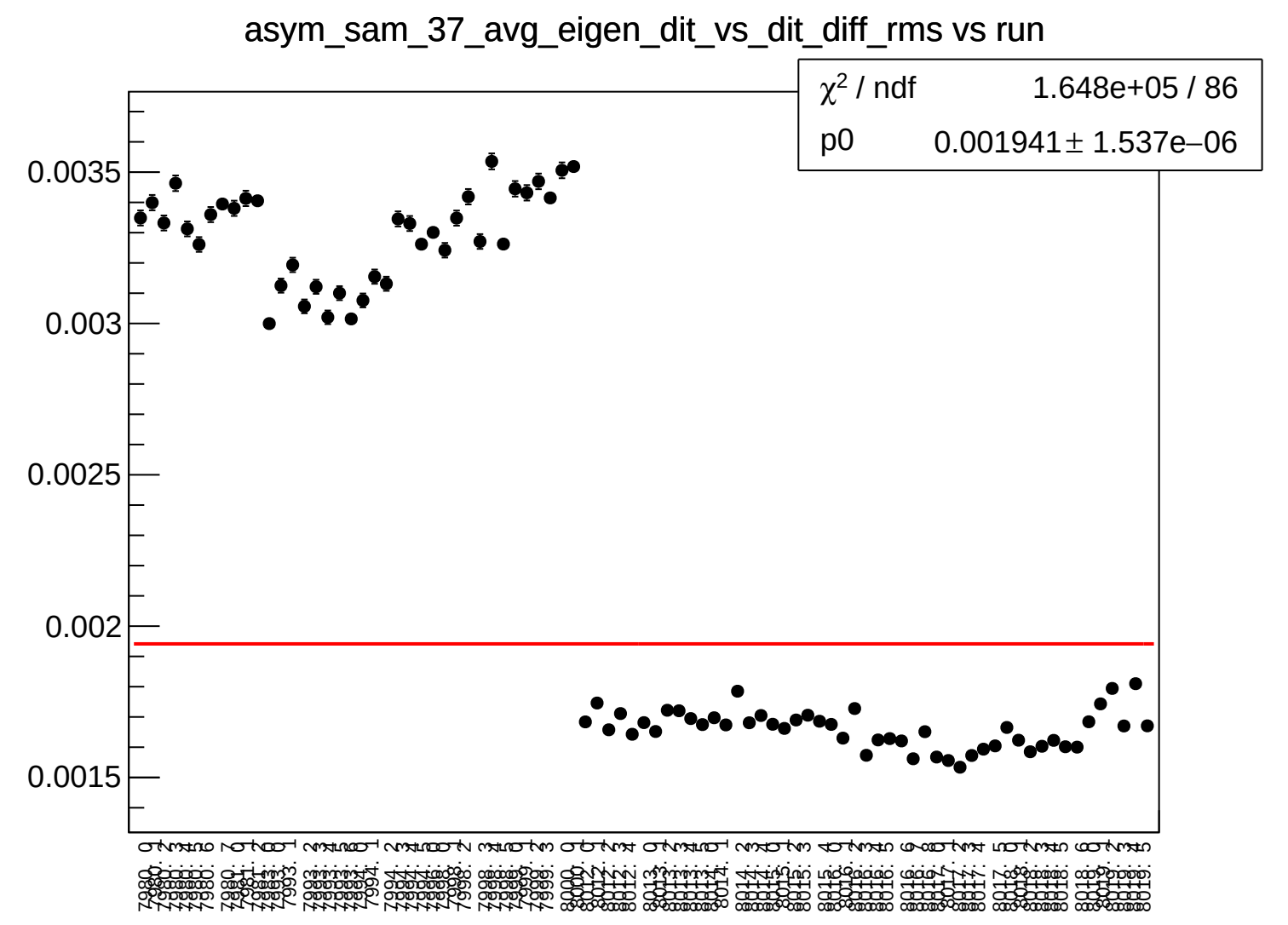

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.099e+05 / 86
p0 44.15 ± 0.04116
500
450
400
350
300
250
200
150
100
50

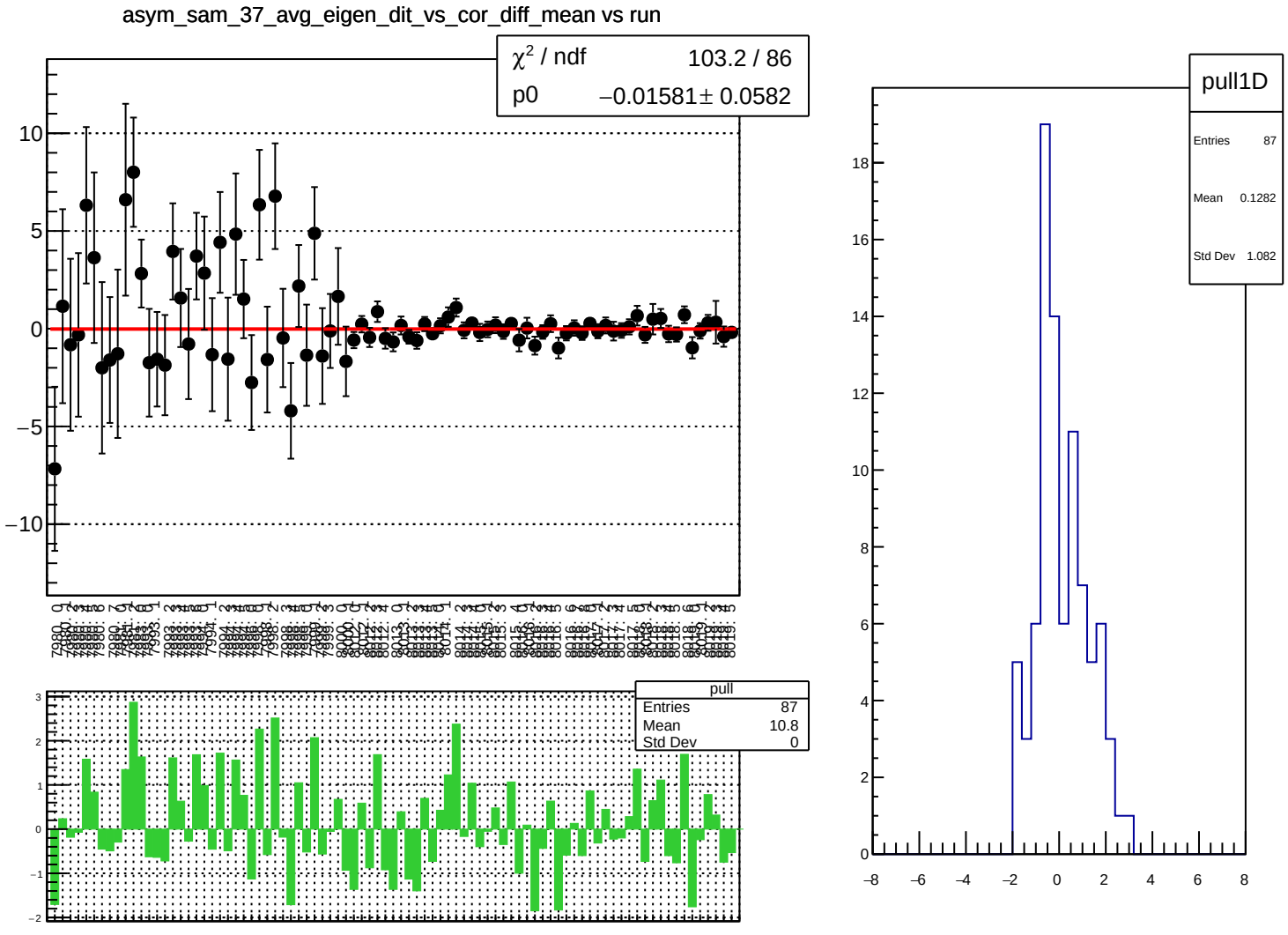

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 86
p0 −0.01581± 0.0582
pull
Entries 87
Mean 10.79
Std Dev 0
pull1D
Entries 87
Mean 0.1282
Std Dev 1.082

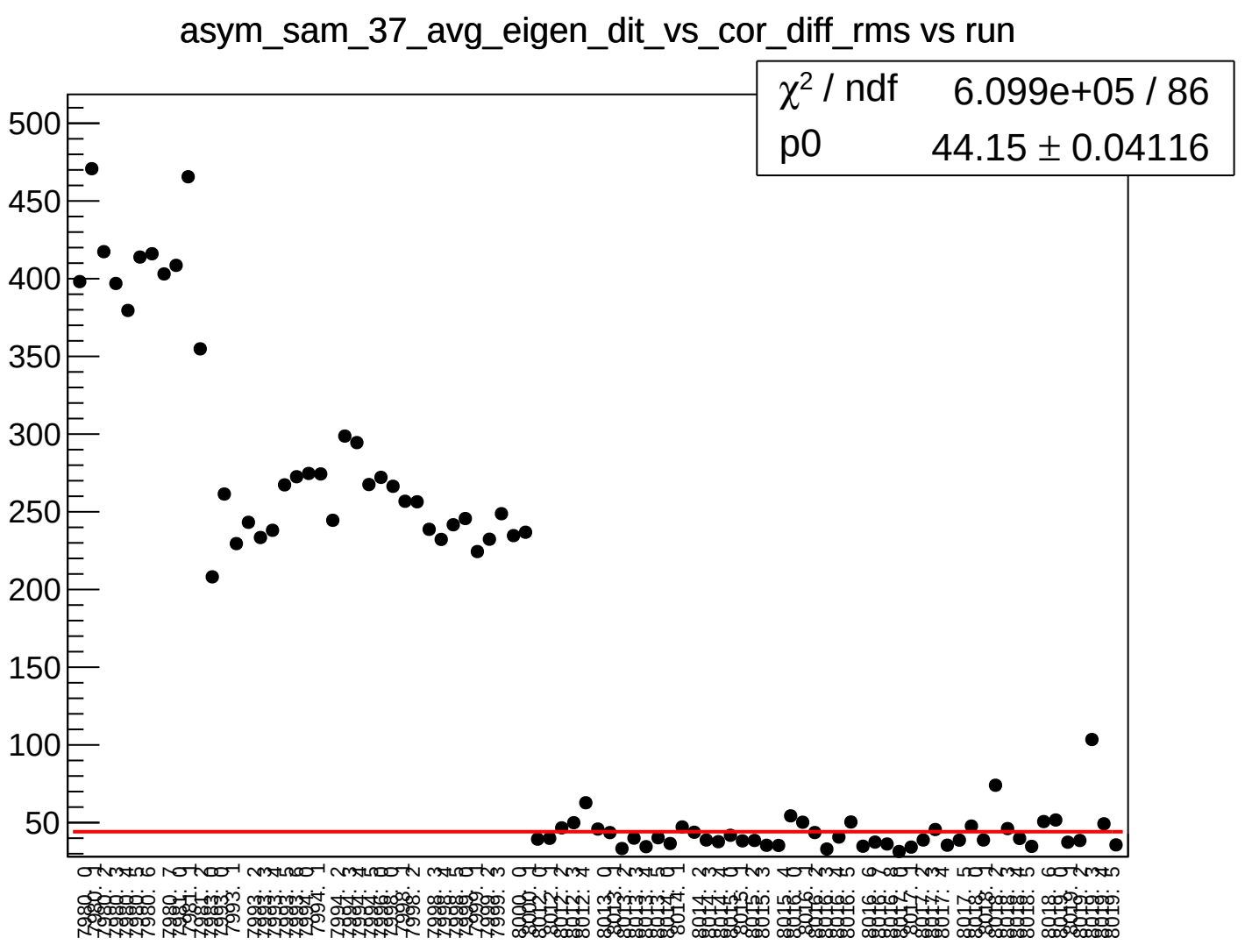

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.099e+05 / 86
p0 44.15 ± 0.04116
500
450
400
350
300
250
200
150
100
50

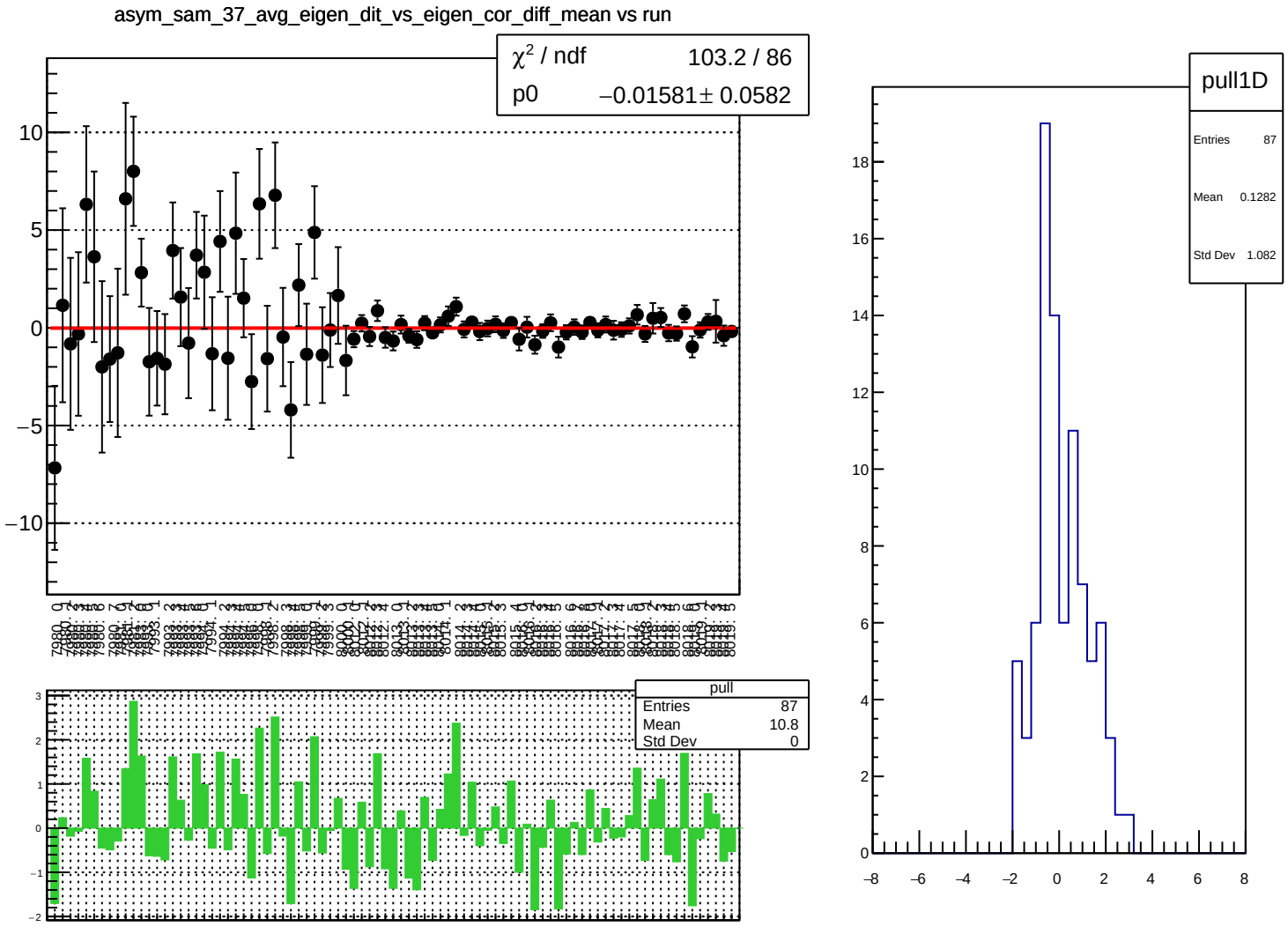

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93 / 86
p0 3.74e−06 ± 2.173e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean −127.1
Std Dev 0
3
2
1
0
−1
−2

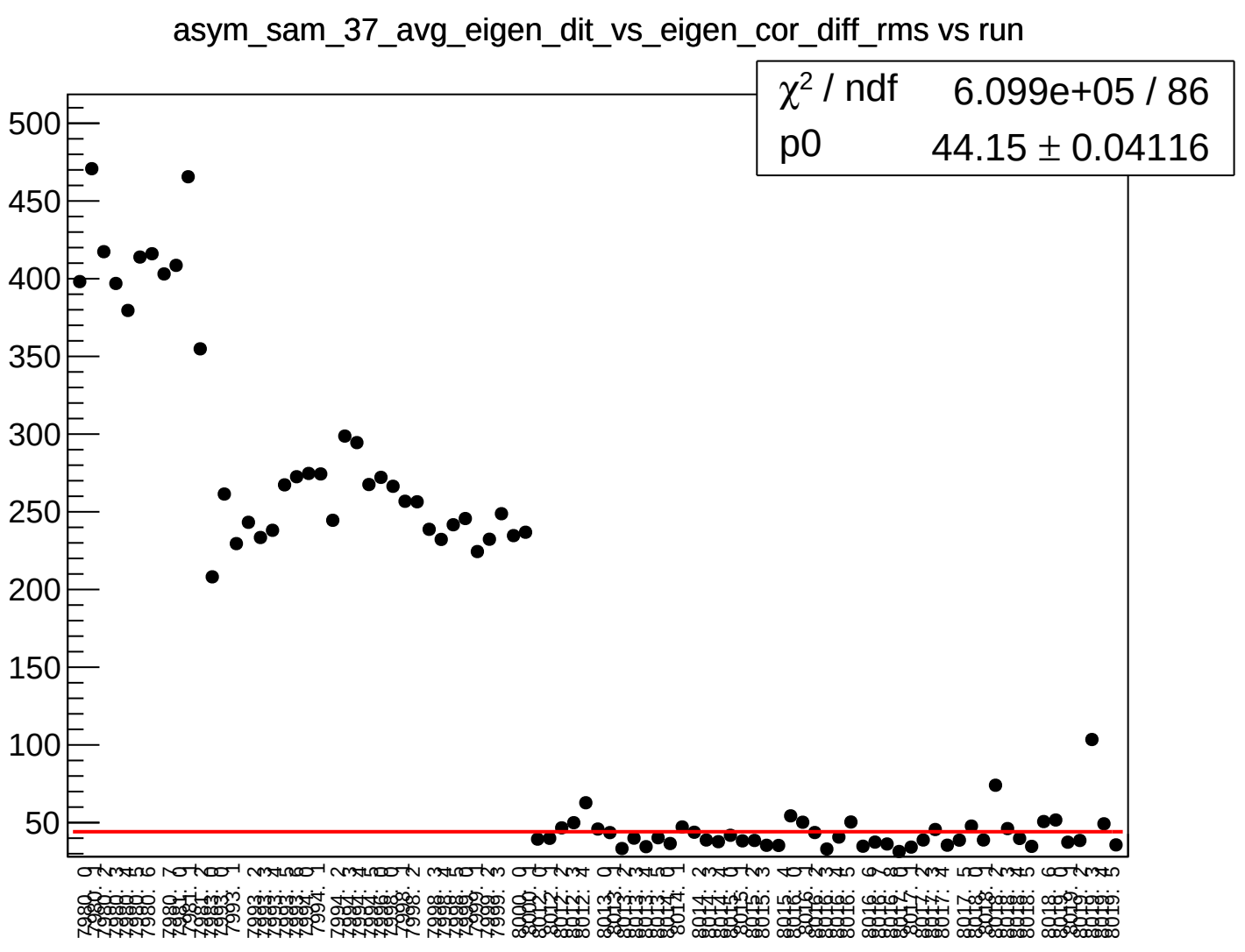

pull1D
Entries 87
Mean 0.00661
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

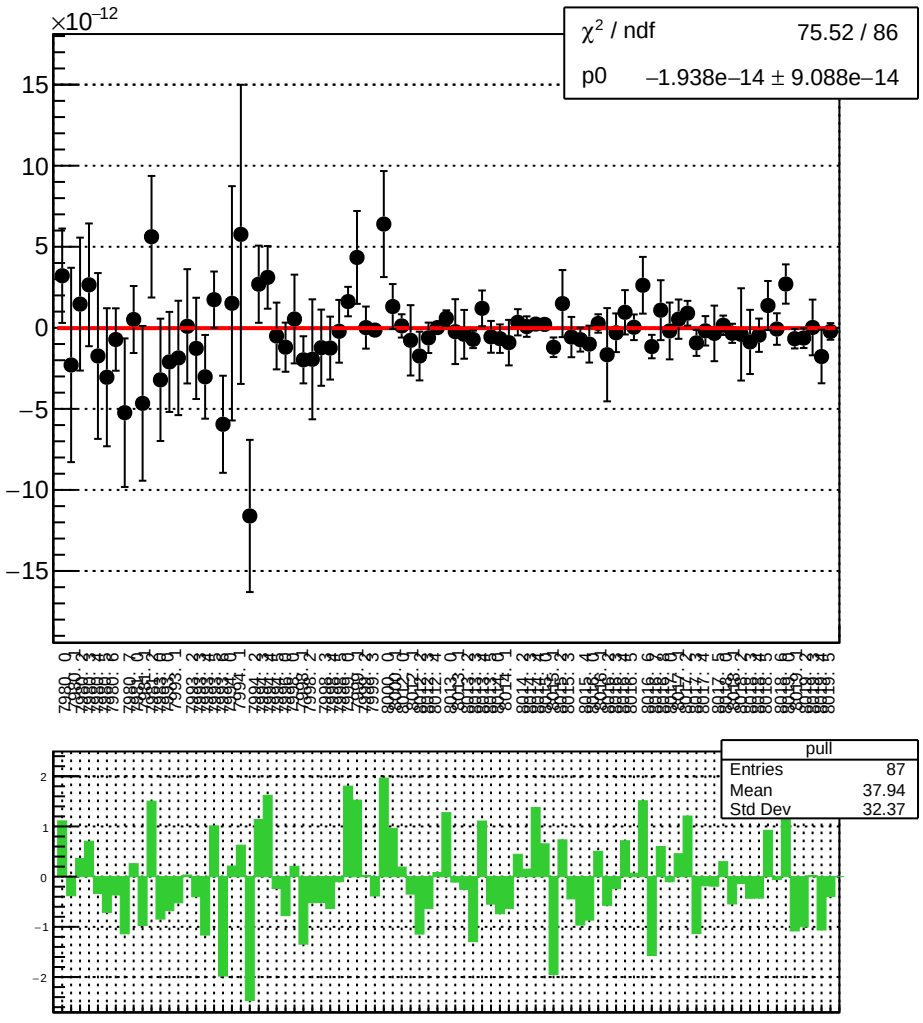

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.648e+05 / 86
p0 0.001941 ± 1.537e−06
0.0035
0.003
0.0025
0.002
0.0015

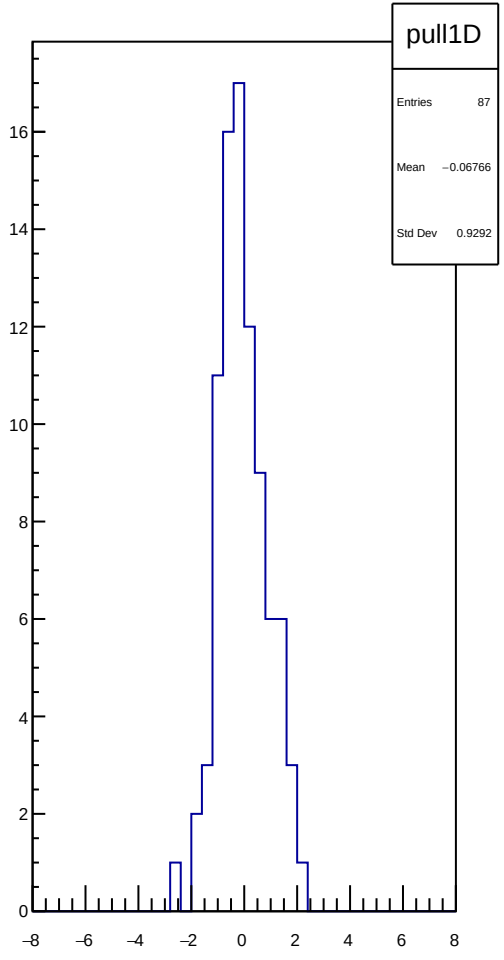

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 86
p0 −0.01581 ± 0.0582
pull
Entries 87
Mean 10.8
Std Dev 0
pull1D
Entries 87
Mean 0.1282
Std Dev 1.082

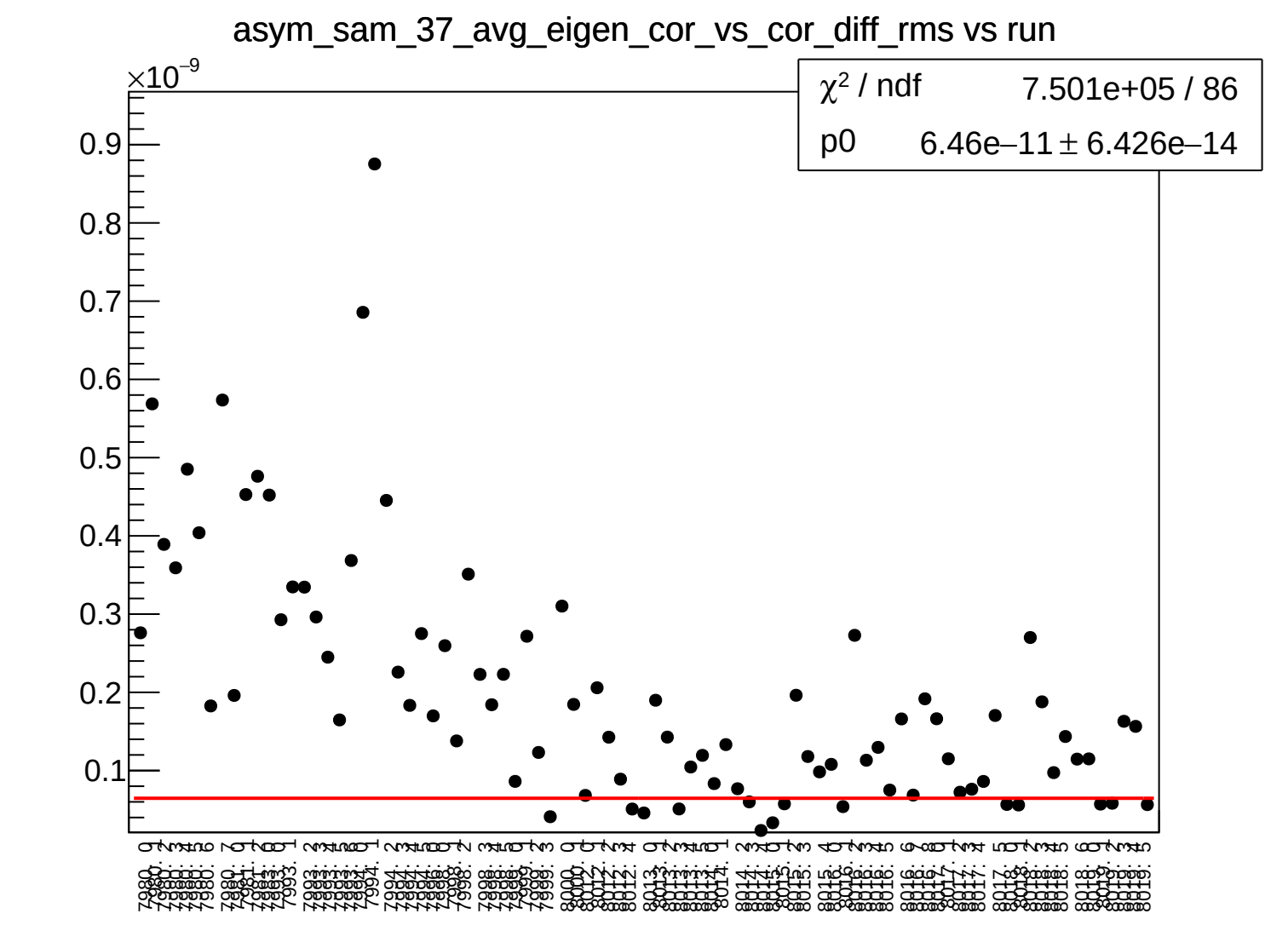

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.099e+05 / 86
p0 44.15 ± 0.04116
500
450
400
350
300
250
200
150
100
50

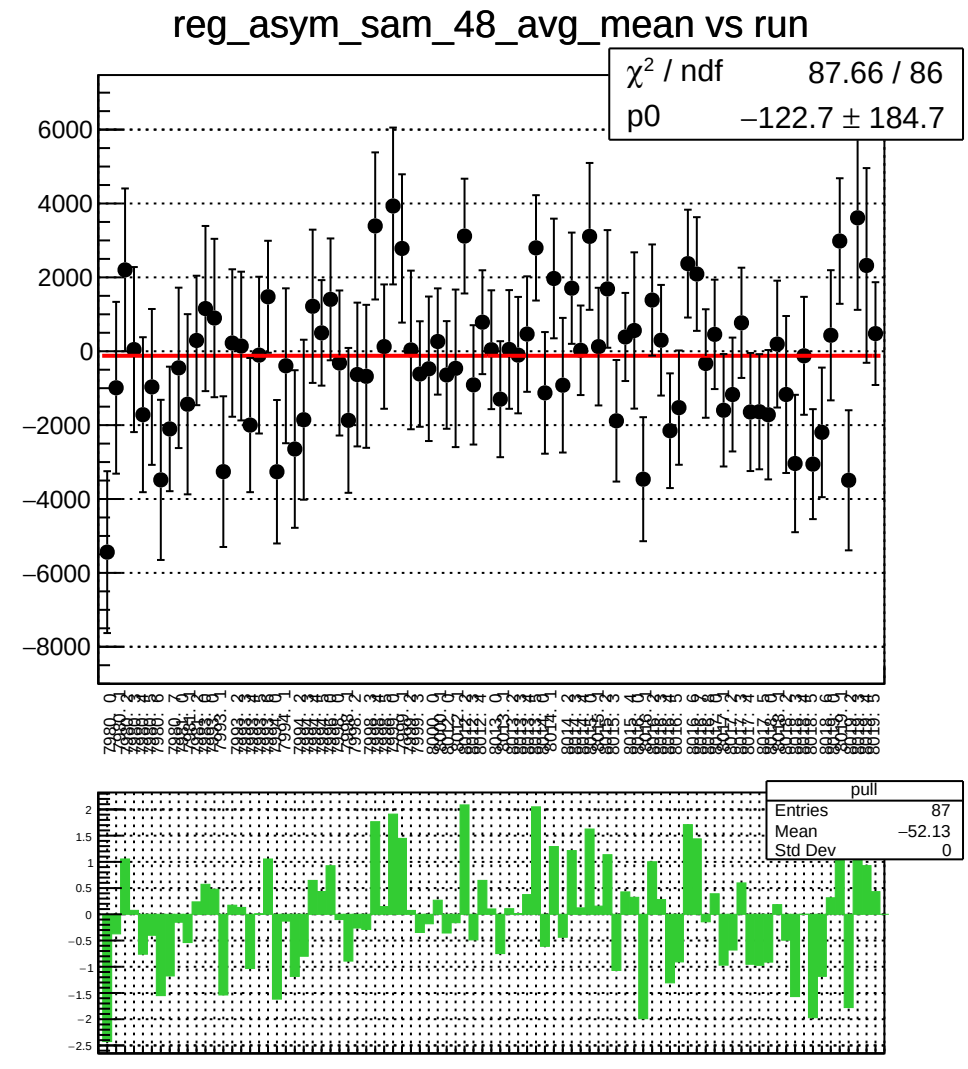

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 86
p0 −0.01581 ± 0.0582
pull
Entries 87
Mean 10.8
Std Dev 0
pull1D
Entries 87
Mean 0.1282
Std Dev 1.082

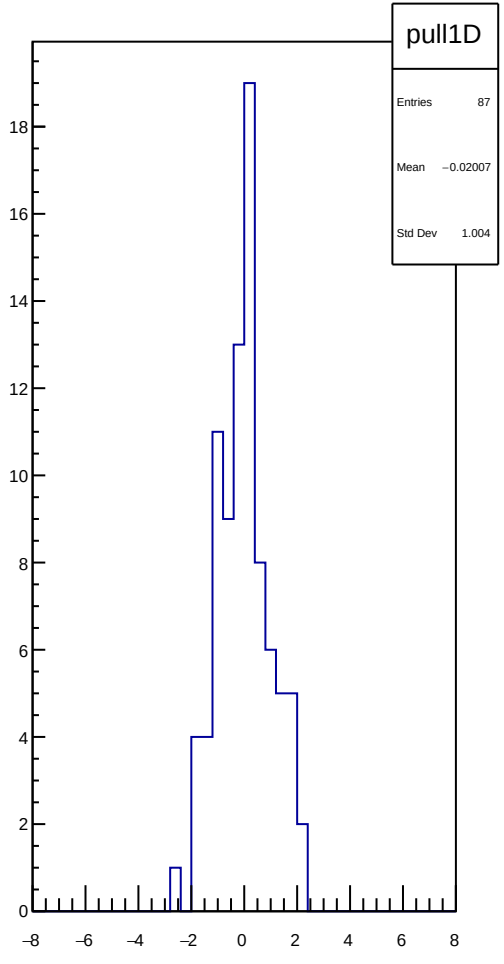

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.099e+05 / 86
p0 44.15 ± 0.04116
500
450
400
350
300
250
200
150
100
50

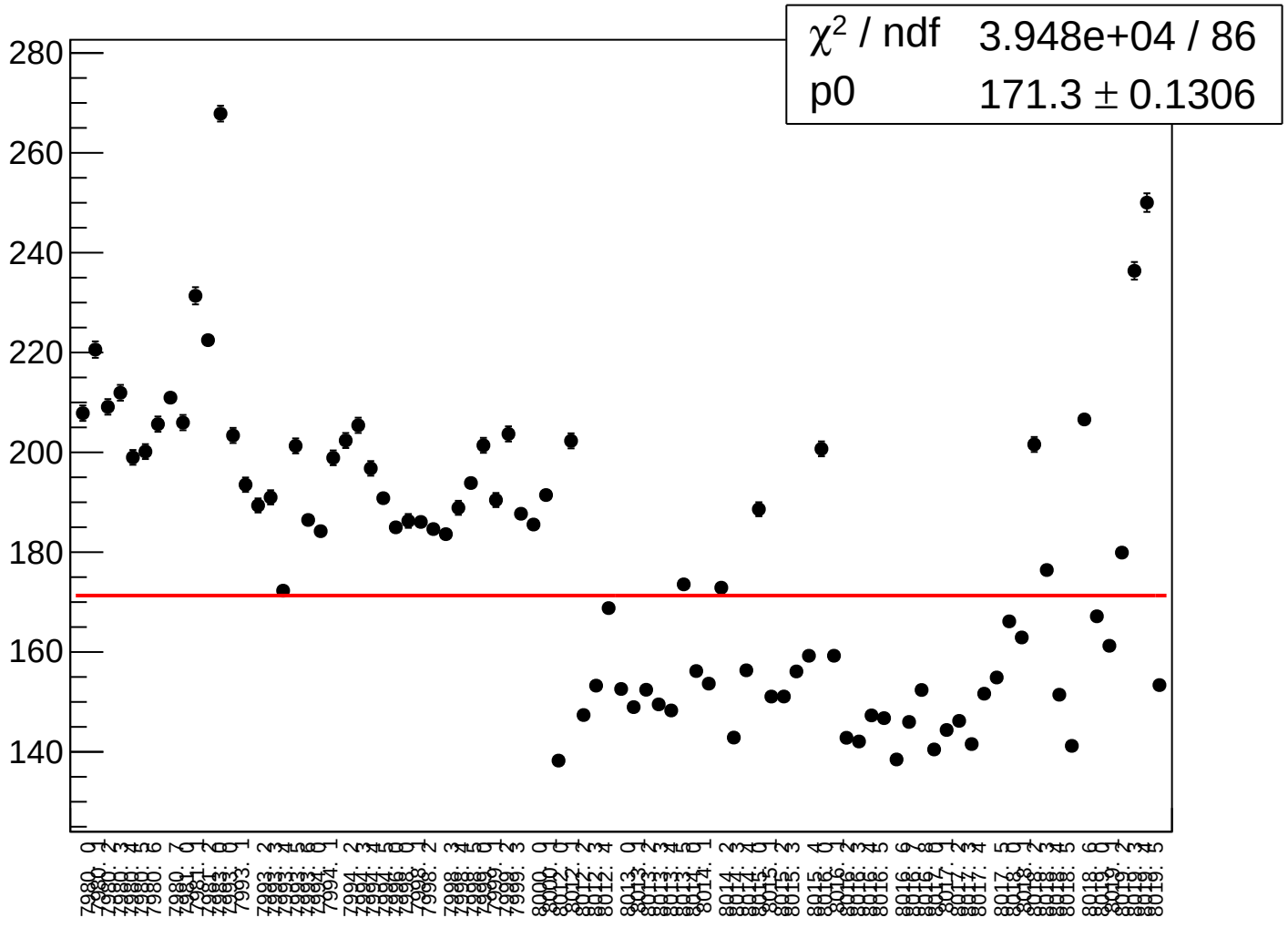

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.52 / 86
p0 −1.938e−14 ± 9.088e−14
pull
Entries 87
Mean 37.94
Std Dev 32.37

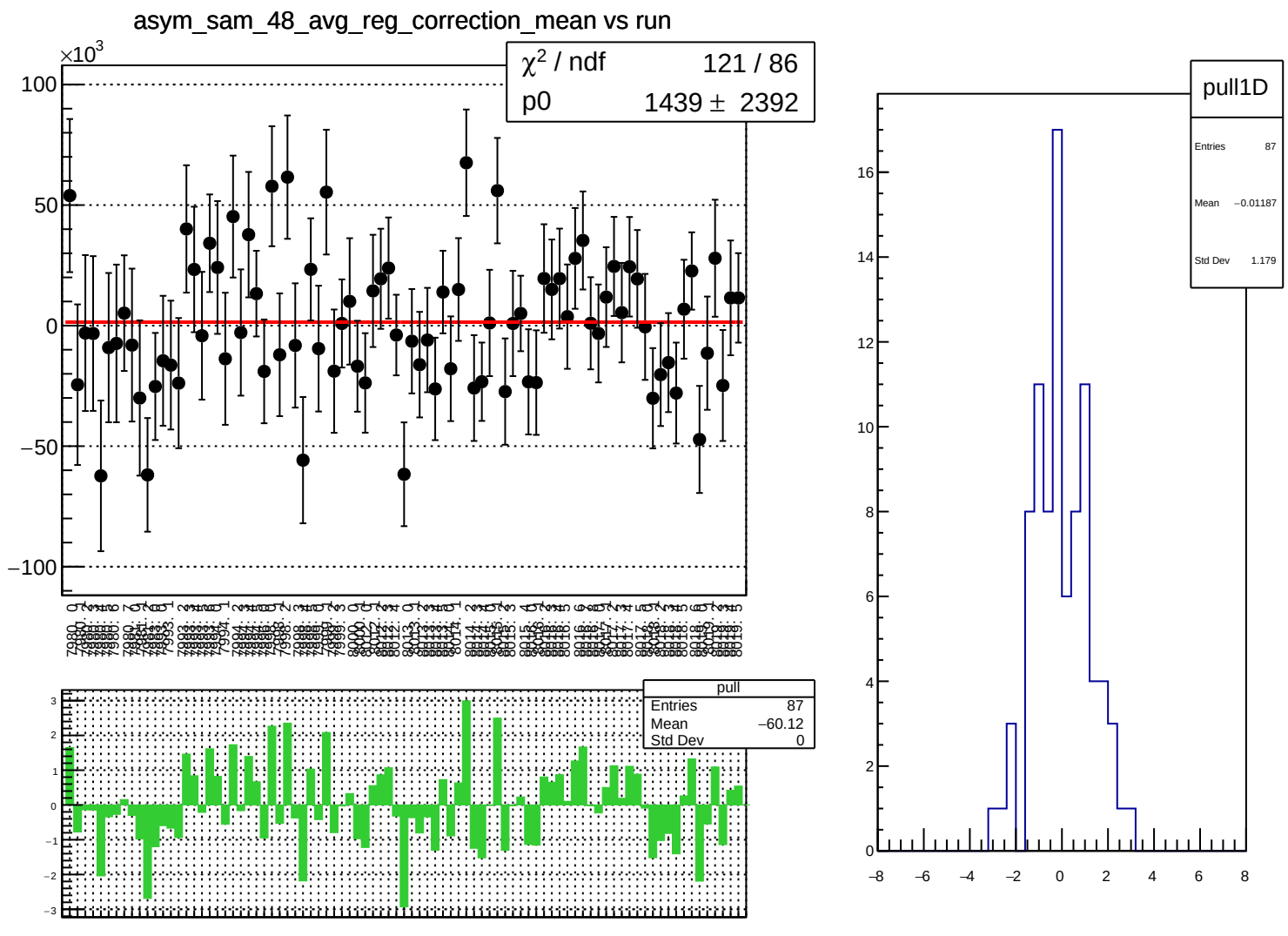

pull1D
Entries 87
Mean −0.06766
Std Dev 0.9292

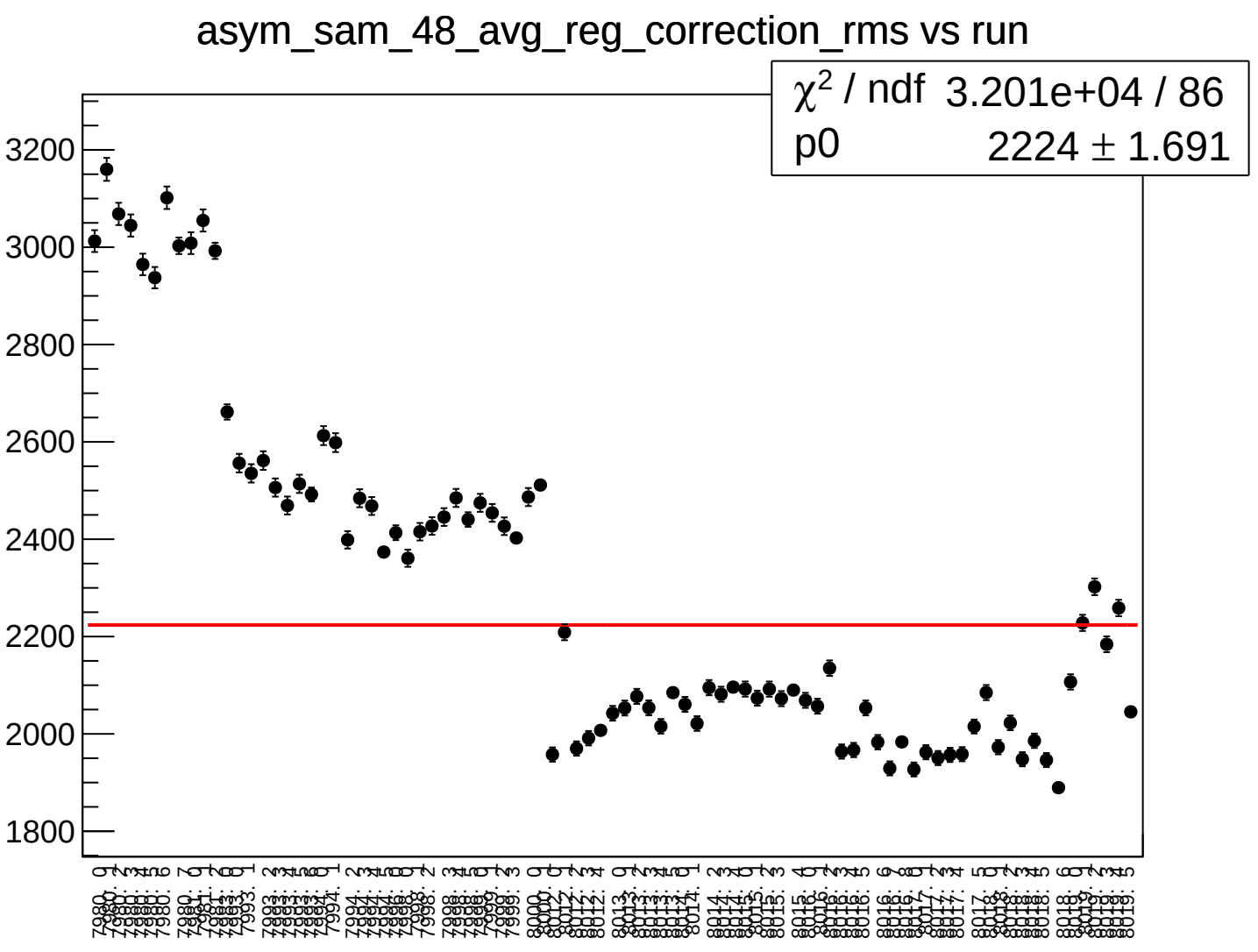

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.501e+05 / 86
p0 6.46e−11 ± 6.426e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

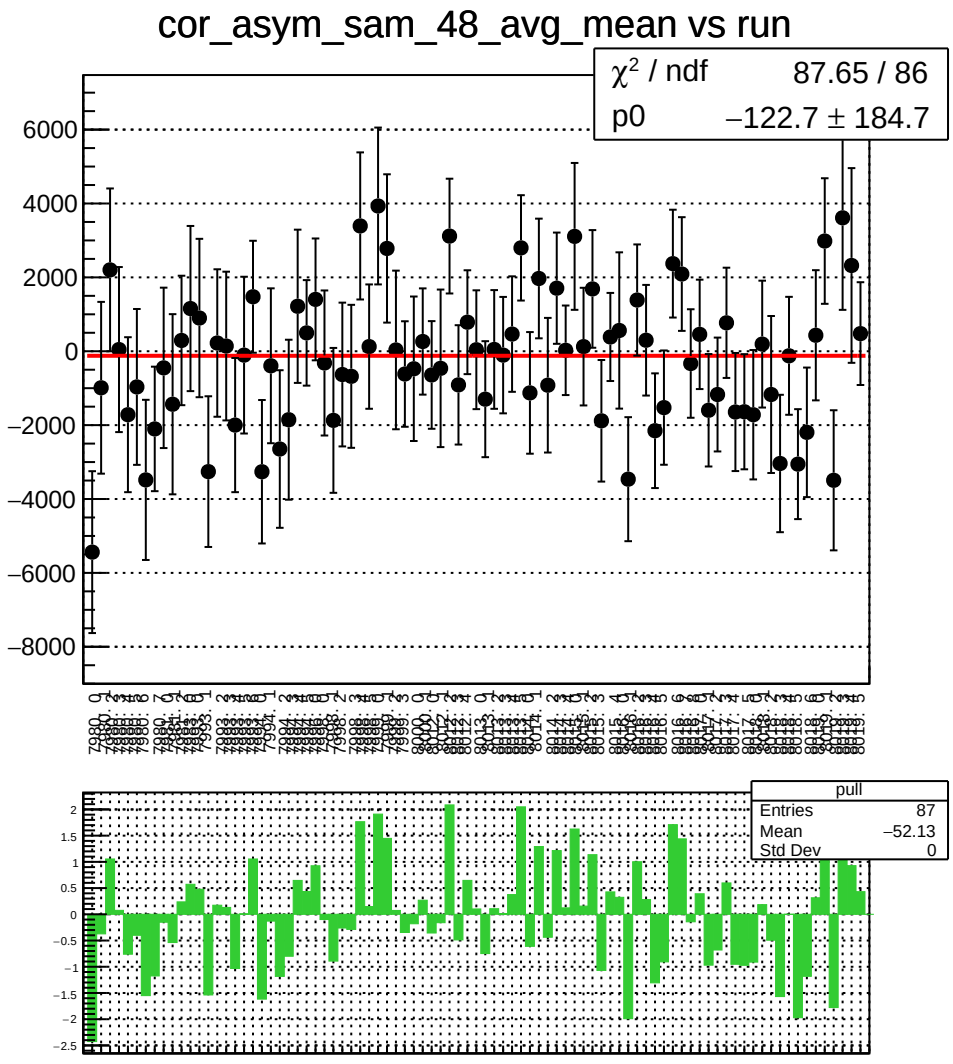

reg_asym_sam_48_avg_mean vs run
χ² / ndf 87.66 / 86
p0 −122.7 ± 184.7
pull
Entries 87
Mean −52.13
Std Dev 0

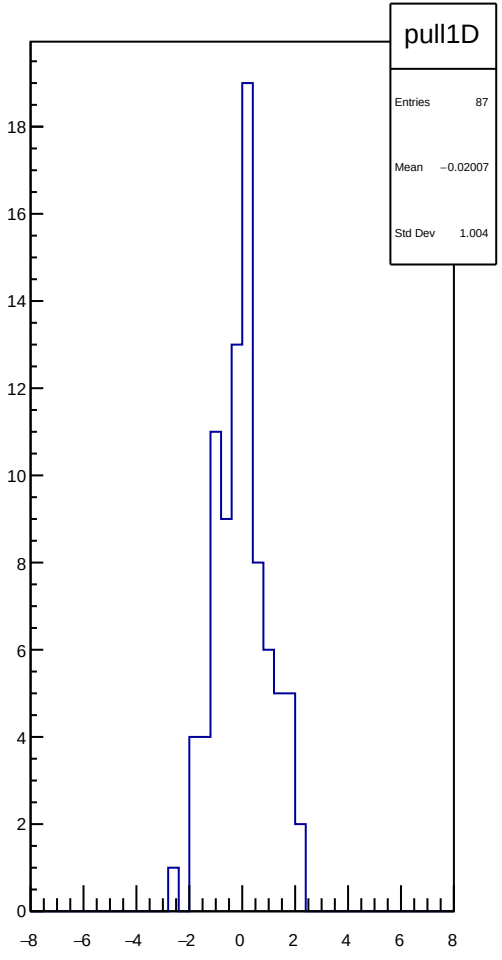

pull1D
Entries 87
Mean −0.02007
Std Dev 1.004

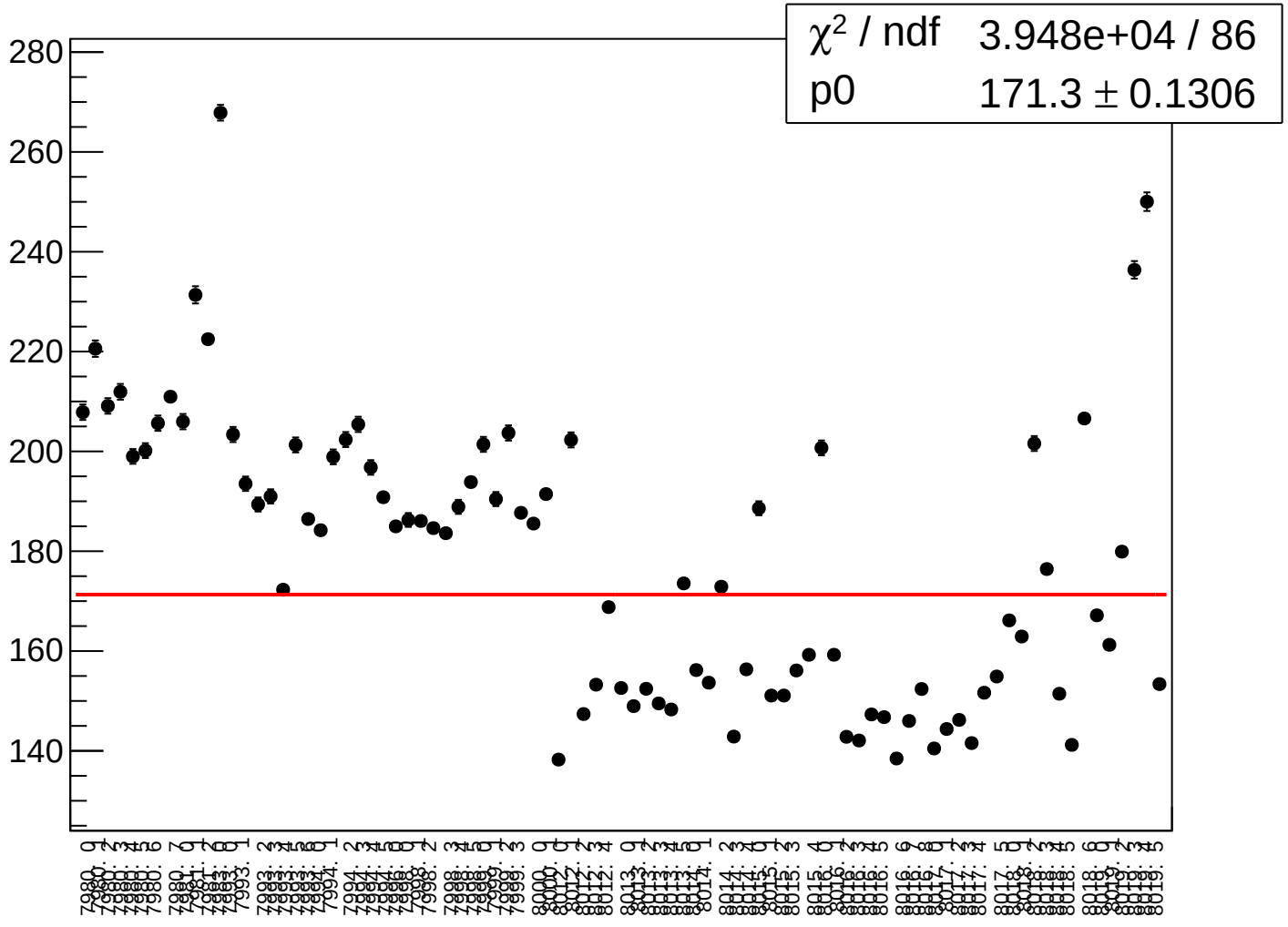

reg_asym_sam_48_avg_rms vs run
χ² / ndf 3.948e+04 / 86
p0 171.3 ± 0.1306
280
260
240
220
200
180
160
140

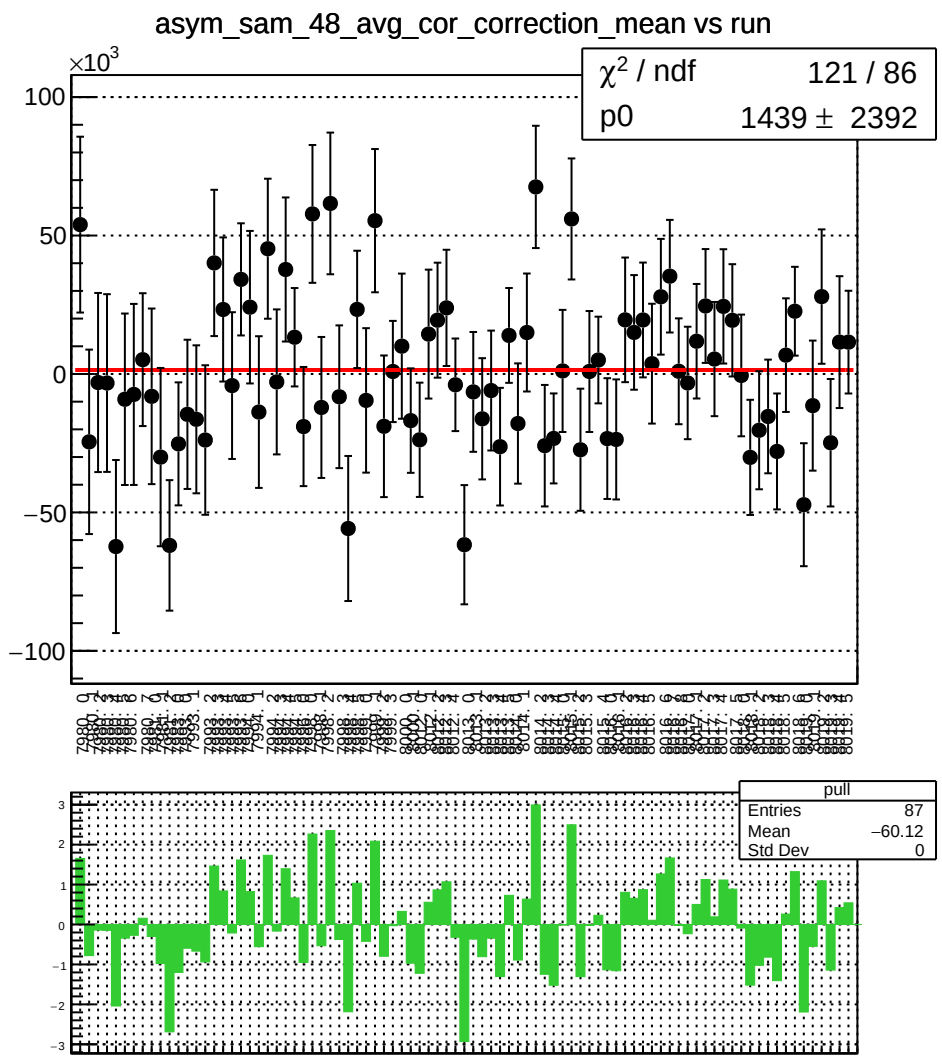

asym_sam_48_avg_reg_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 121 / 86
p0 1439 ± 2392
pull
Entries 87
Mean −60.12
Std Dev 0
pull1D
Entries 87
Mean −0.01187
Std Dev 1.179

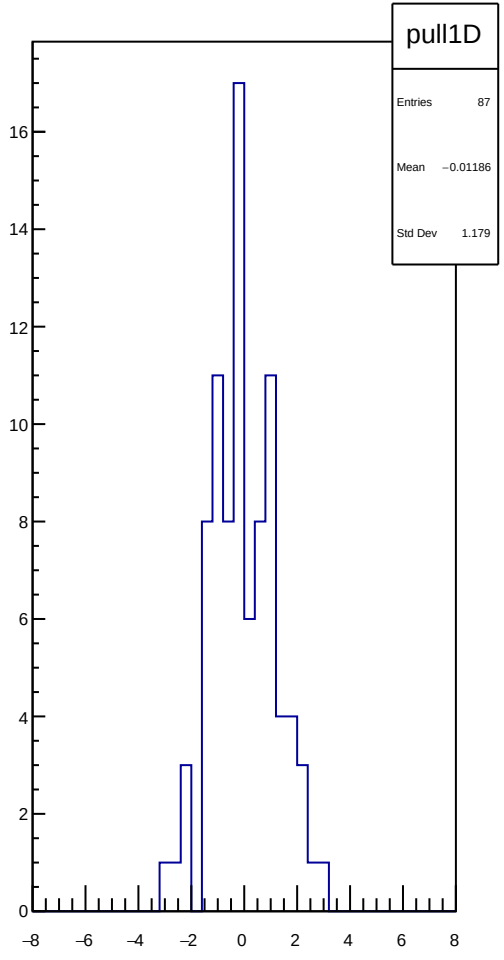

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 3.201e+04 / 86
p0 2224 ± 1.691
3200
3000
2800
2600
2400
2200
2000
1800

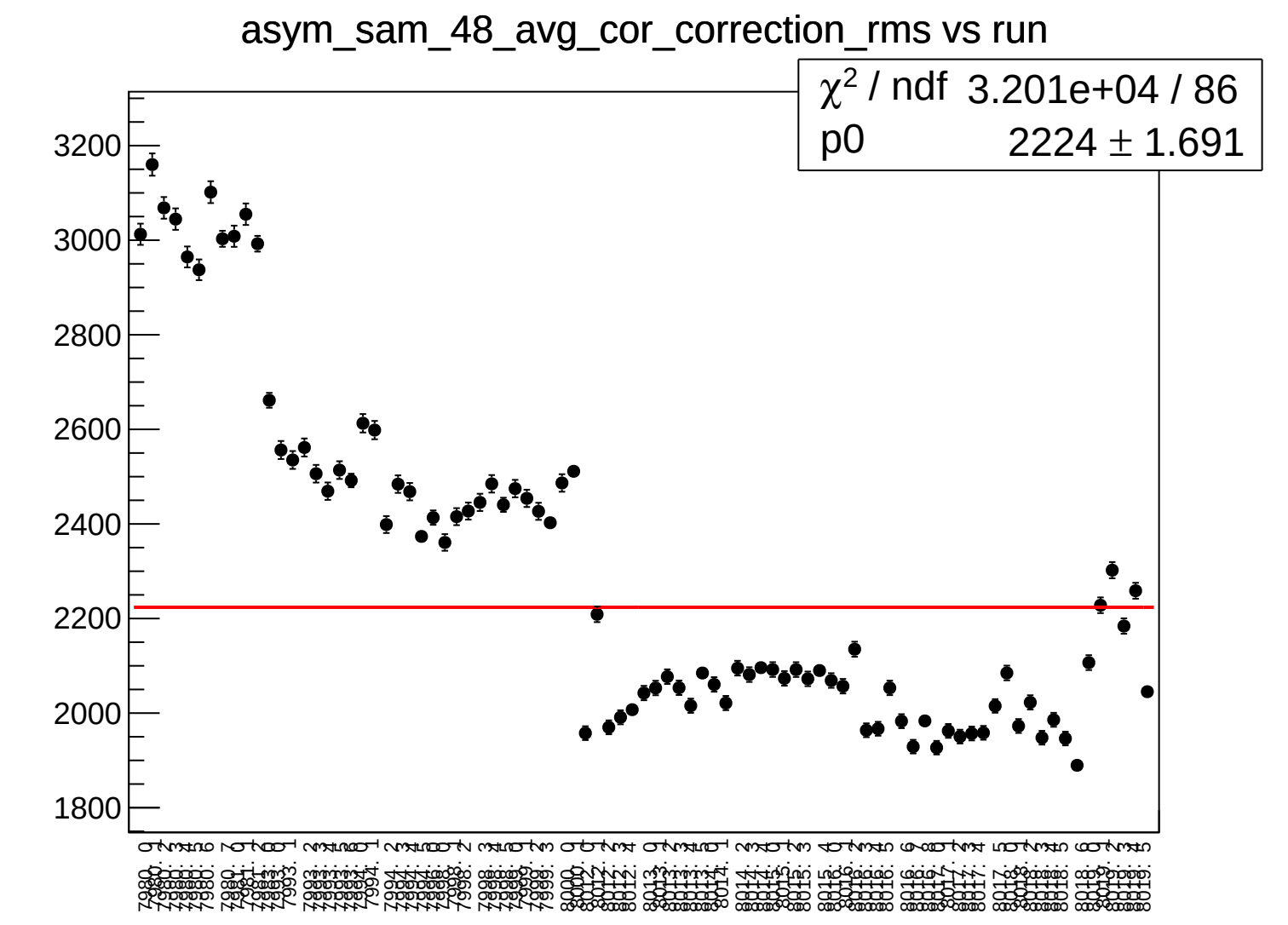

cor_asym_sam_48_avg_mean vs run
χ² / ndf 87.65 / 86
p0 −122.7 ± 184.7
pull
Entries 87
Mean −52.13
Std Dev 0

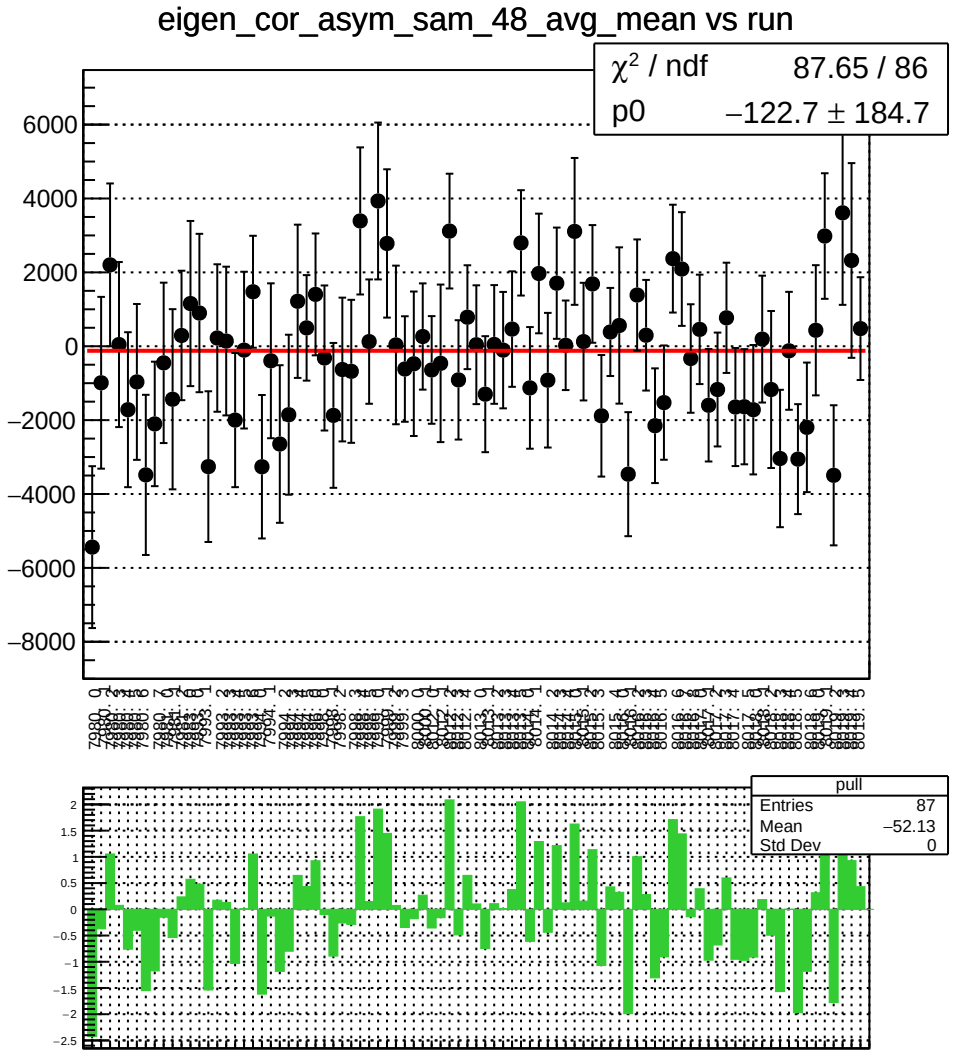

pull1D
Entries 87
Mean −0.02007
Std Dev 1.004

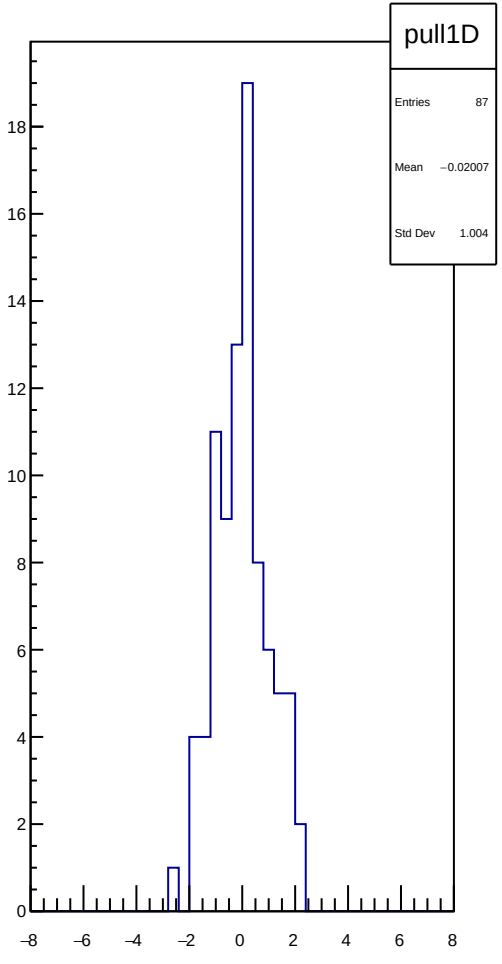

cor_asym_sam_48_avg_rms vs run
χ² / ndf 3.948e+04 / 86
p0 171.3 ± 0.1306
280
260
240
220
200
180
160
140

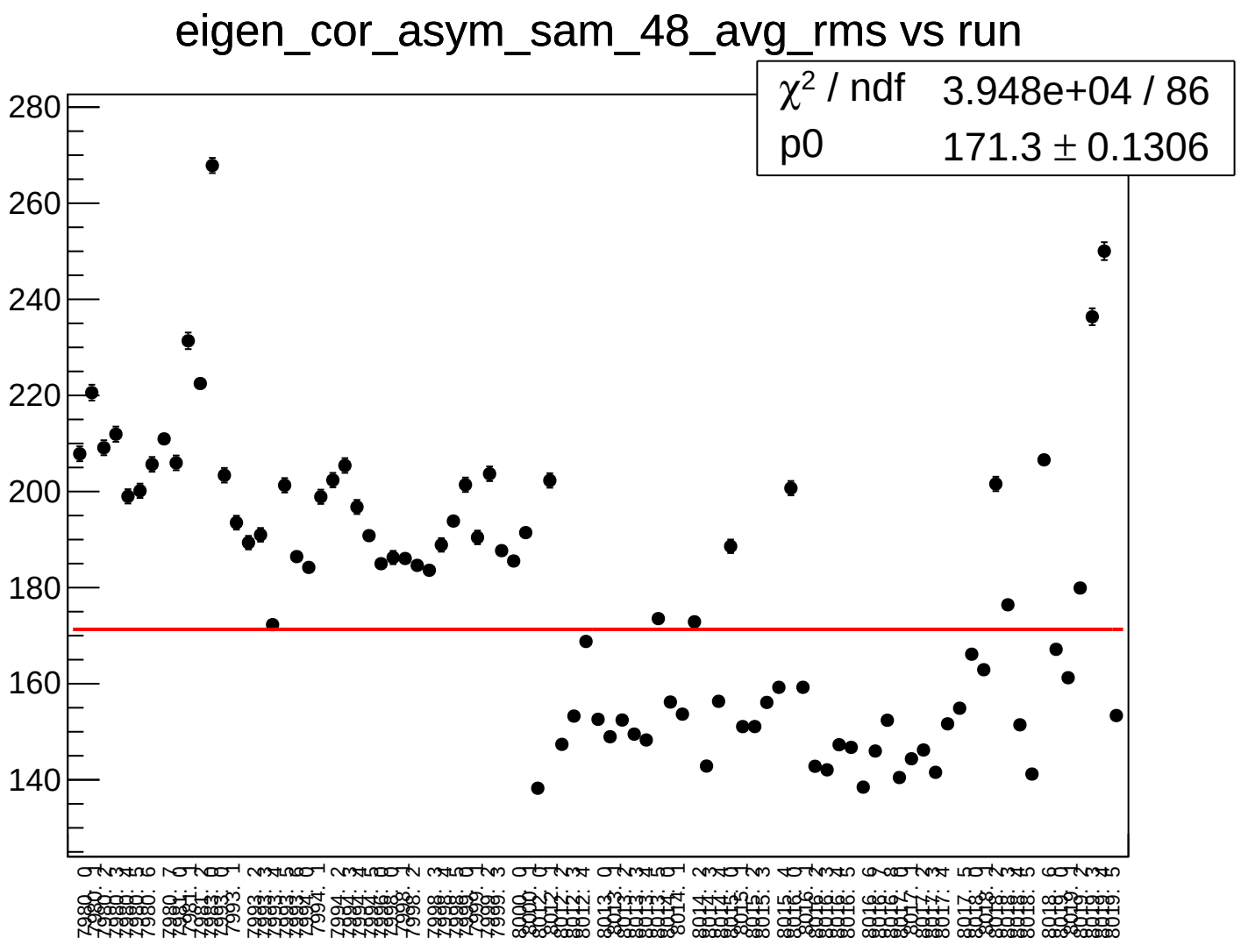

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ² / ndf 121 / 86
p0 1439 ± 2392
100
50
0
−50
−100
pull
Entries 87
Mean −60.12
Std Dev 0
3
2
1
0
−1
−2
−3

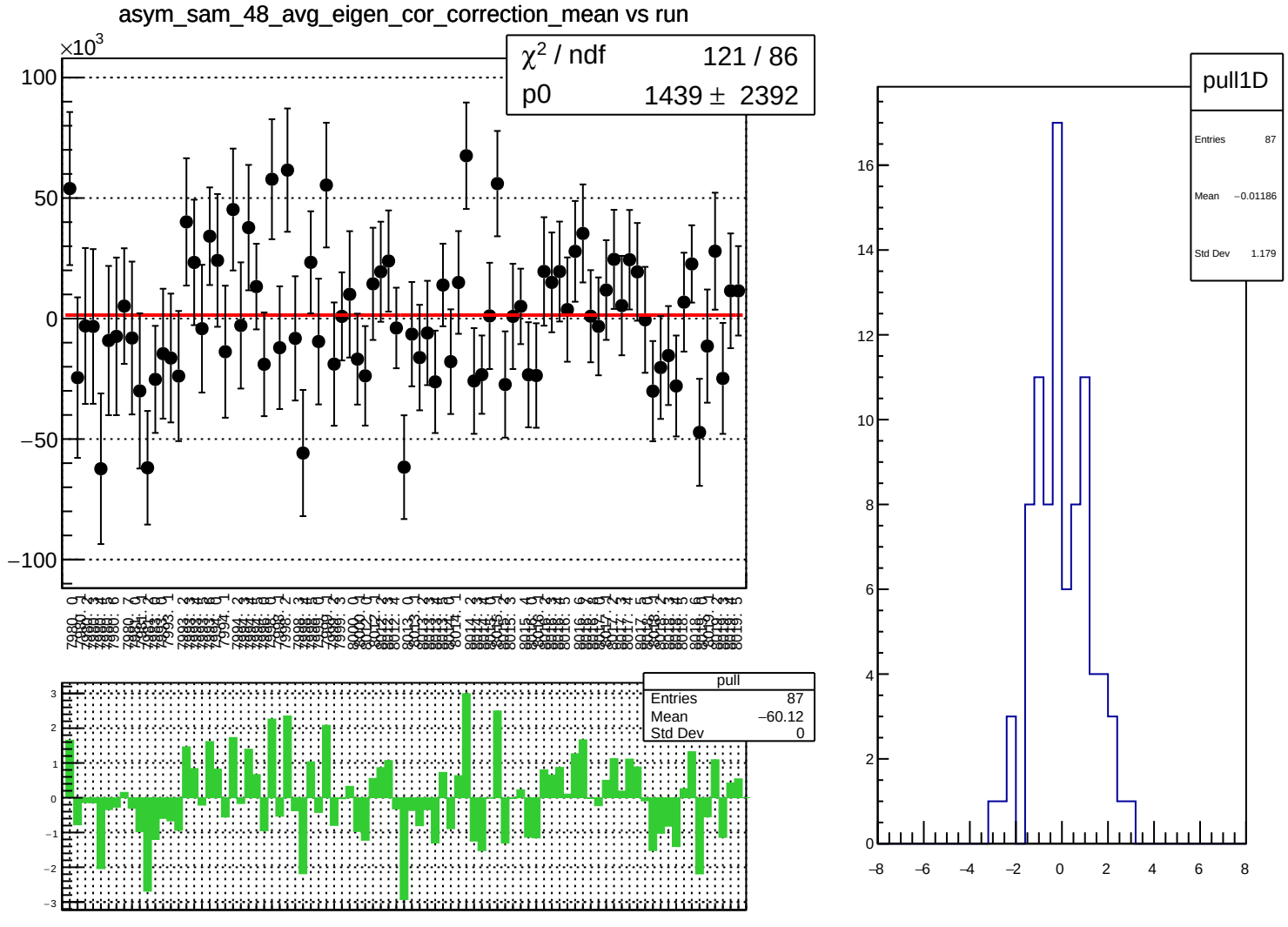

pull1D
Entries 87
Mean −0.01186
Std Dev 1.179
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

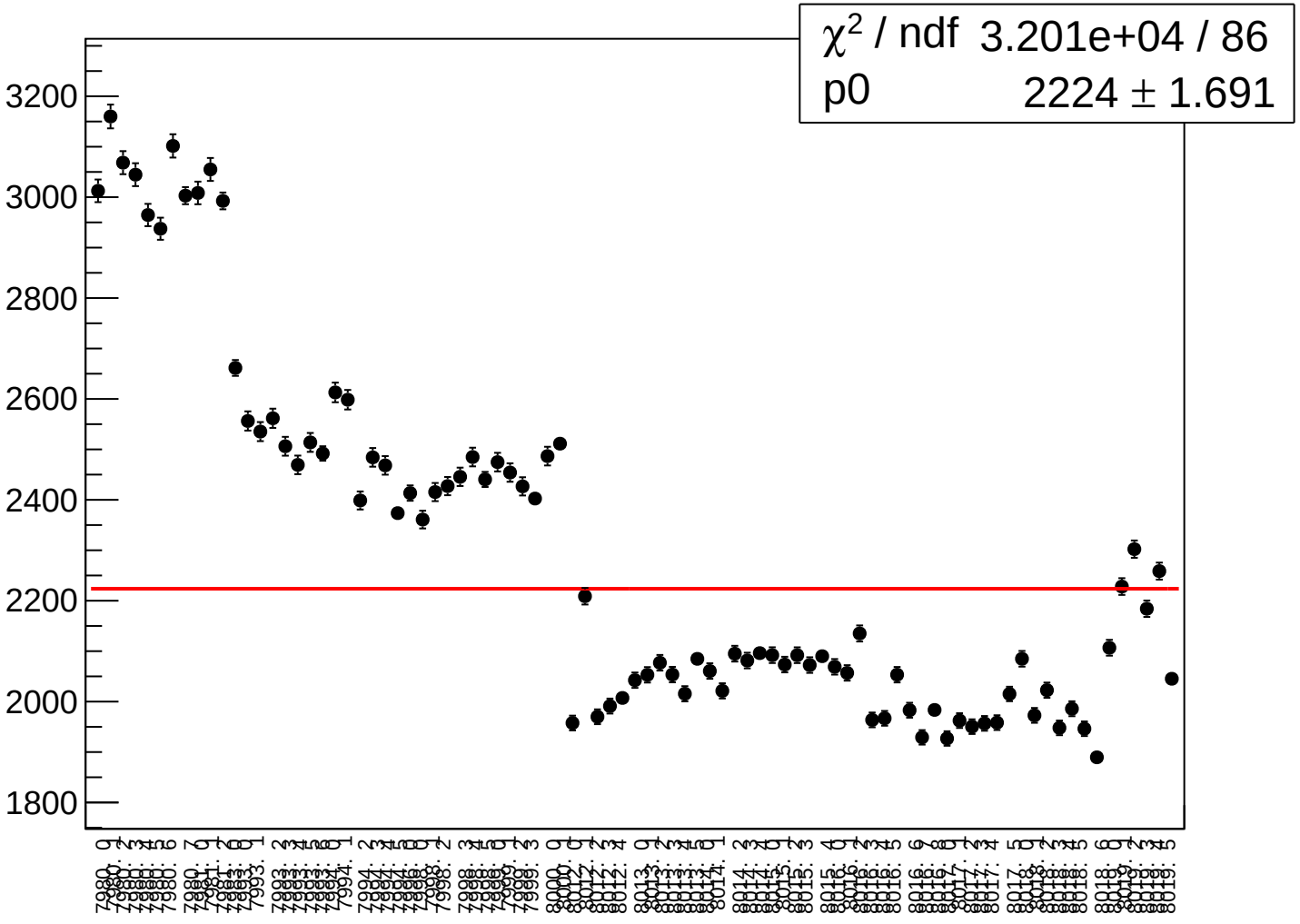

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 3.201e+04 / 86
p0 2224 ± 1.691
3200
3000
2800
2600
2400
2200
2000
1800

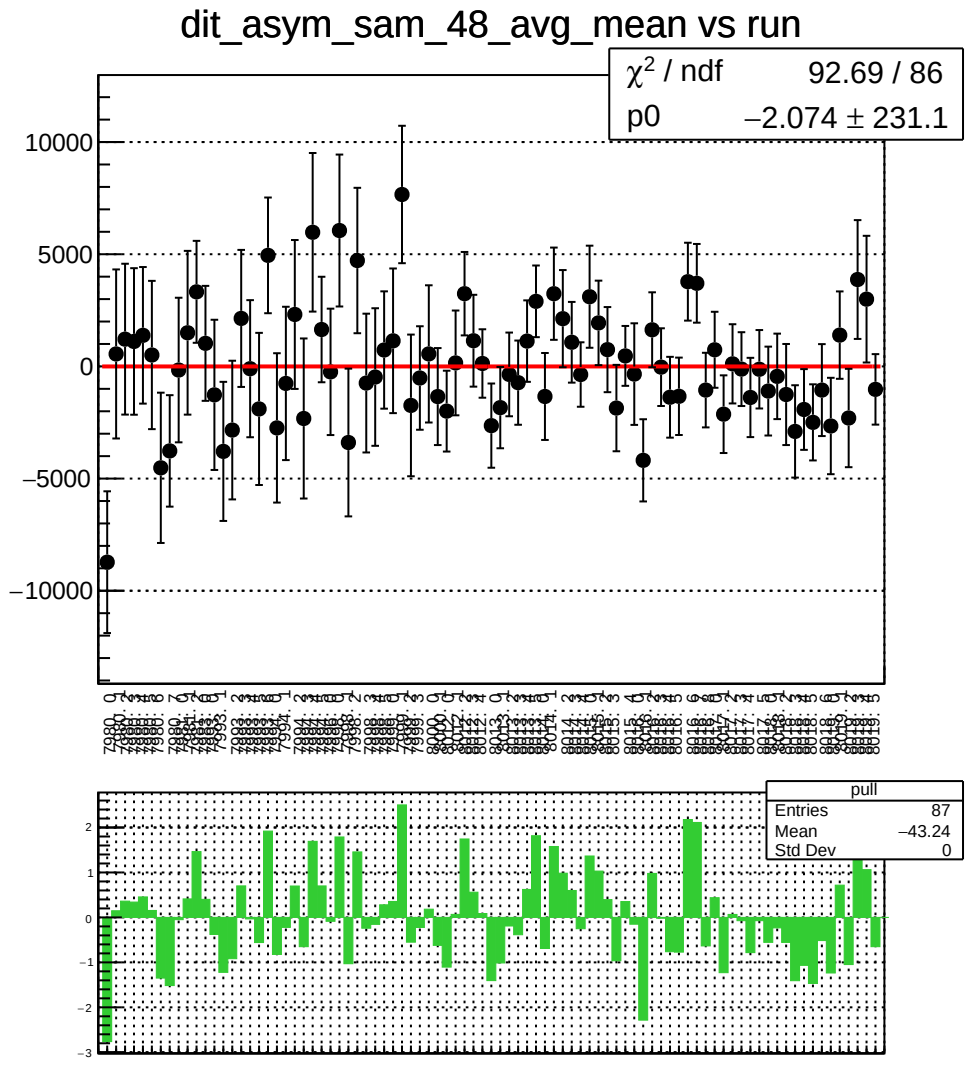

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 87.65 / 86
p0 −122.7 ± 184.7
pull
Entries 87
Mean −52.13
Std Dev 0

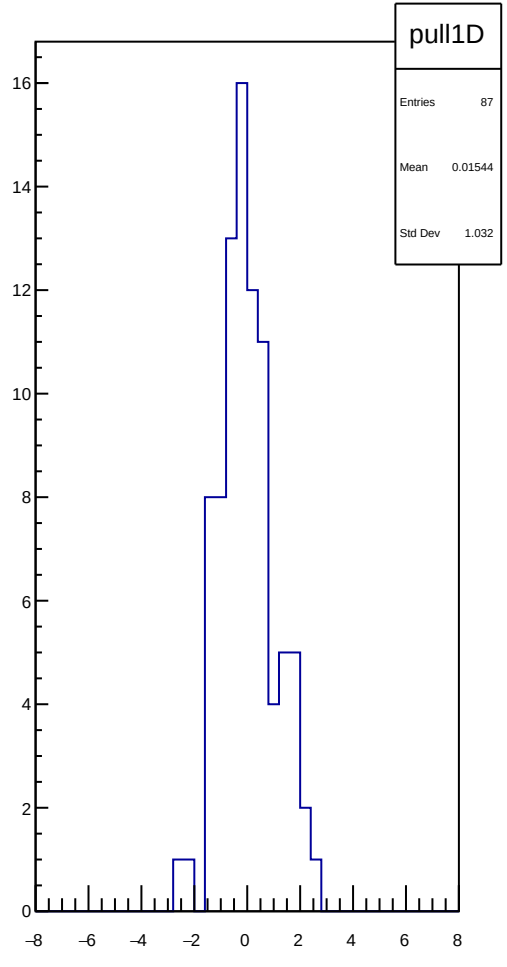

pull1D
Entries 87
Mean −0.02007
Std Dev 1.004

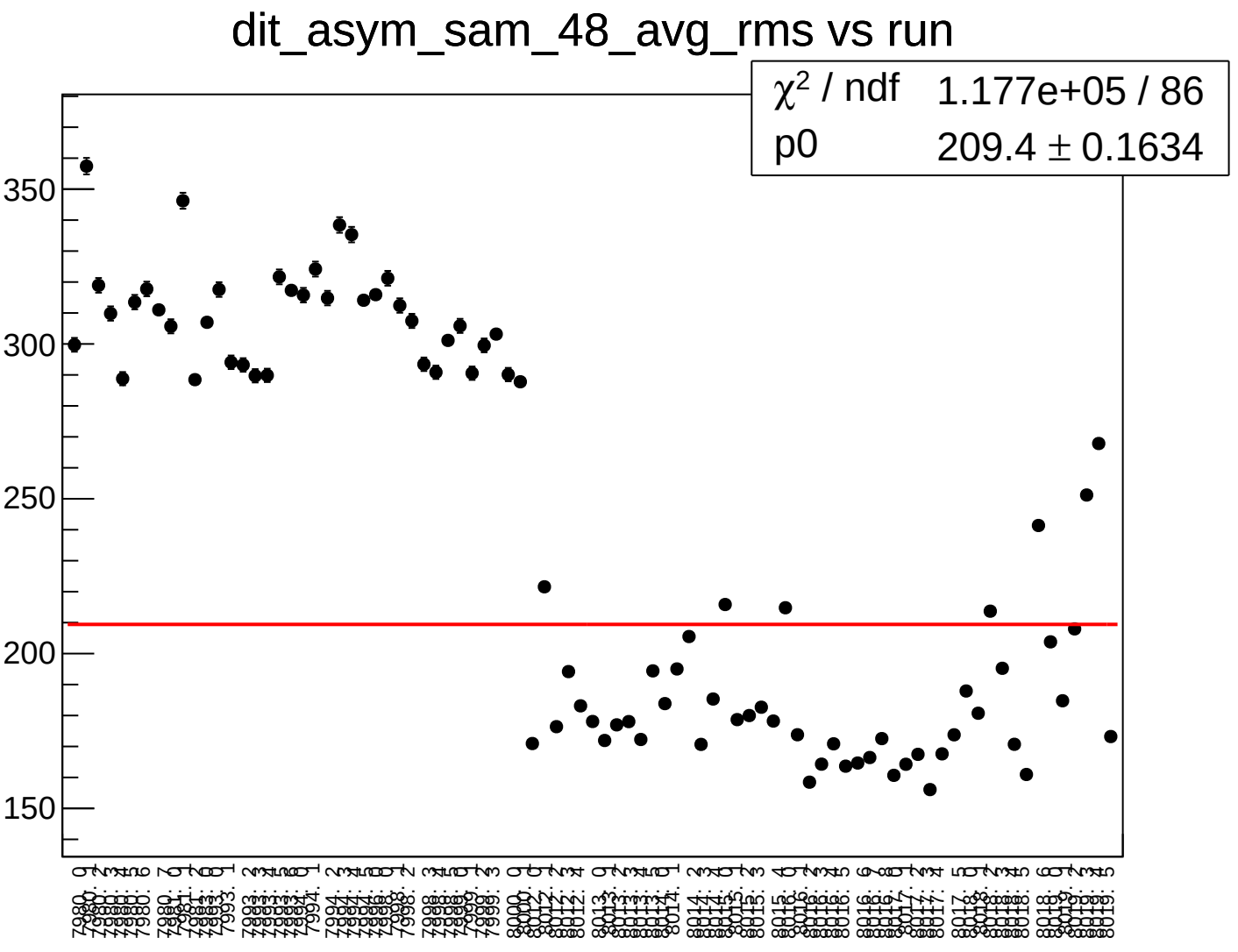

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 3.948e+04 / 86
p0 171.3 ± 0.1306
280
260
240
220
200
180
160
140

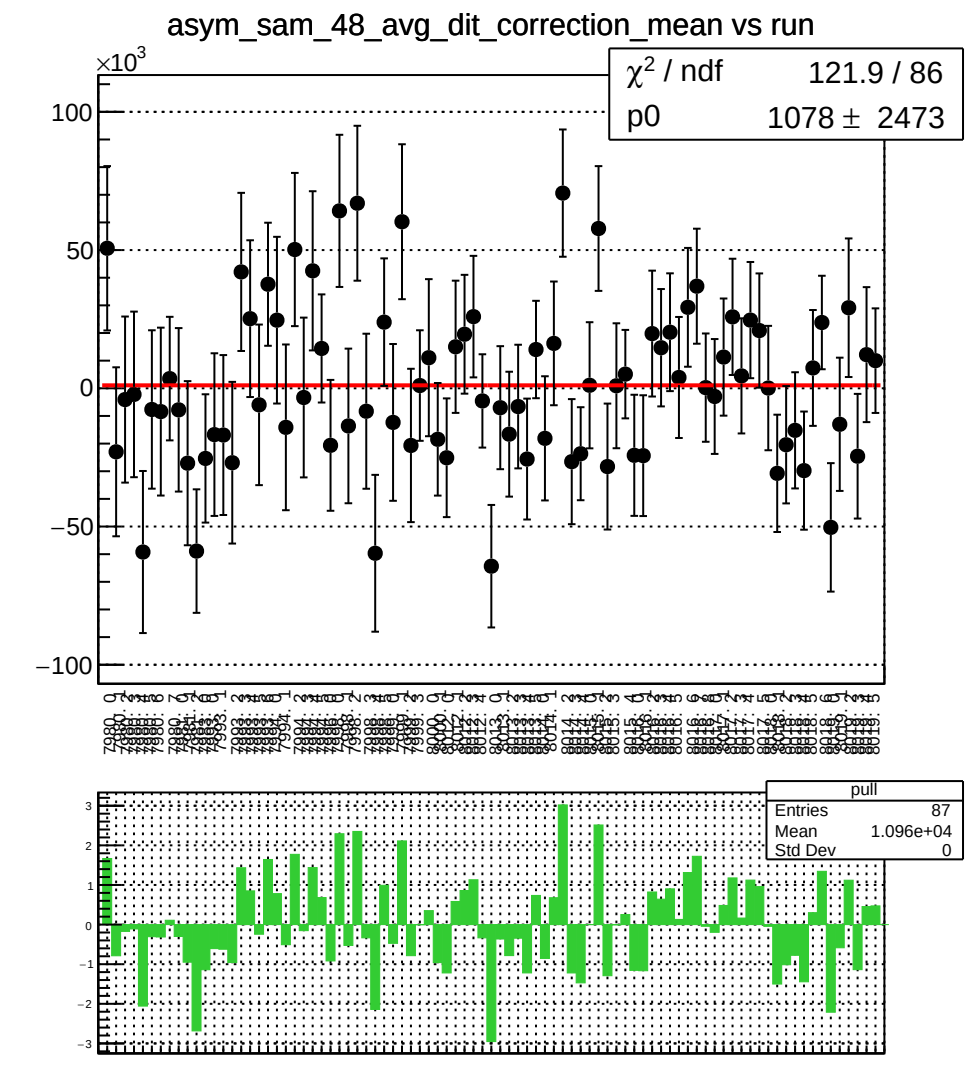

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 121 / 86
p0 1439 ± 2392
100
50
0
−50
−100
pull
Entries 87
Mean −60.12
Std Dev 0
pull1D
Entries 87
Mean −0.01186
Std Dev 1.179

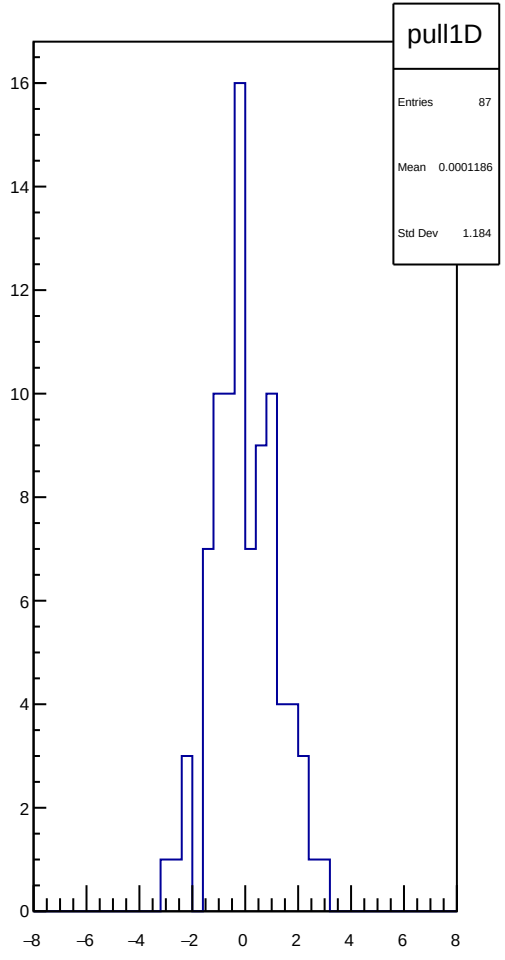

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.201e+04 / 86
p0 2224 ± 1.691
3200
3000
2800
2600
2400
2200
2000
1800

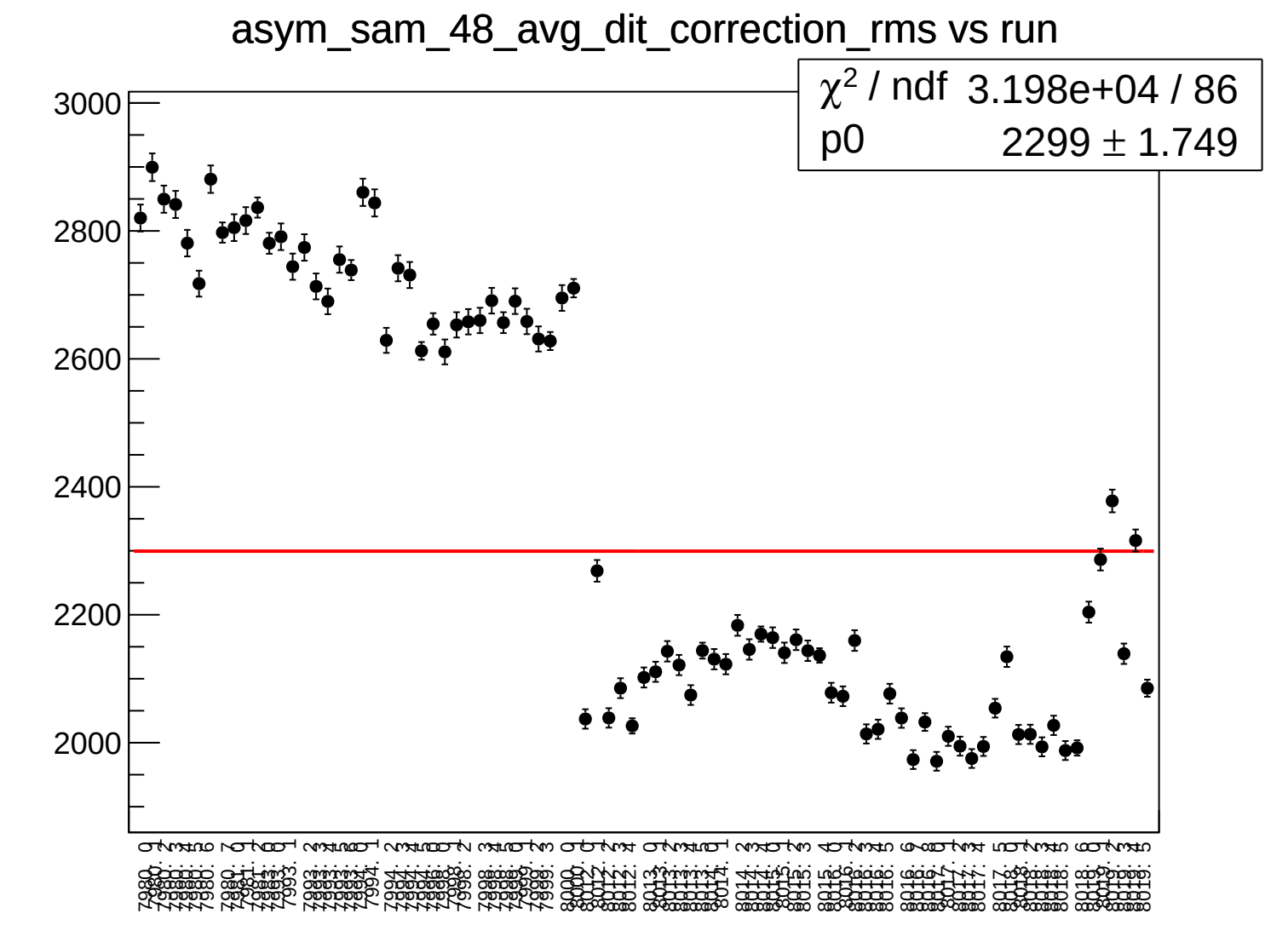

dit_asym_sam_48_avg_mean vs run
χ² / ndf 92.69 / 86
p0 −2.074 ± 231.1
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −43.24
Std Dev 0
2
1
0
−1
−2
−3

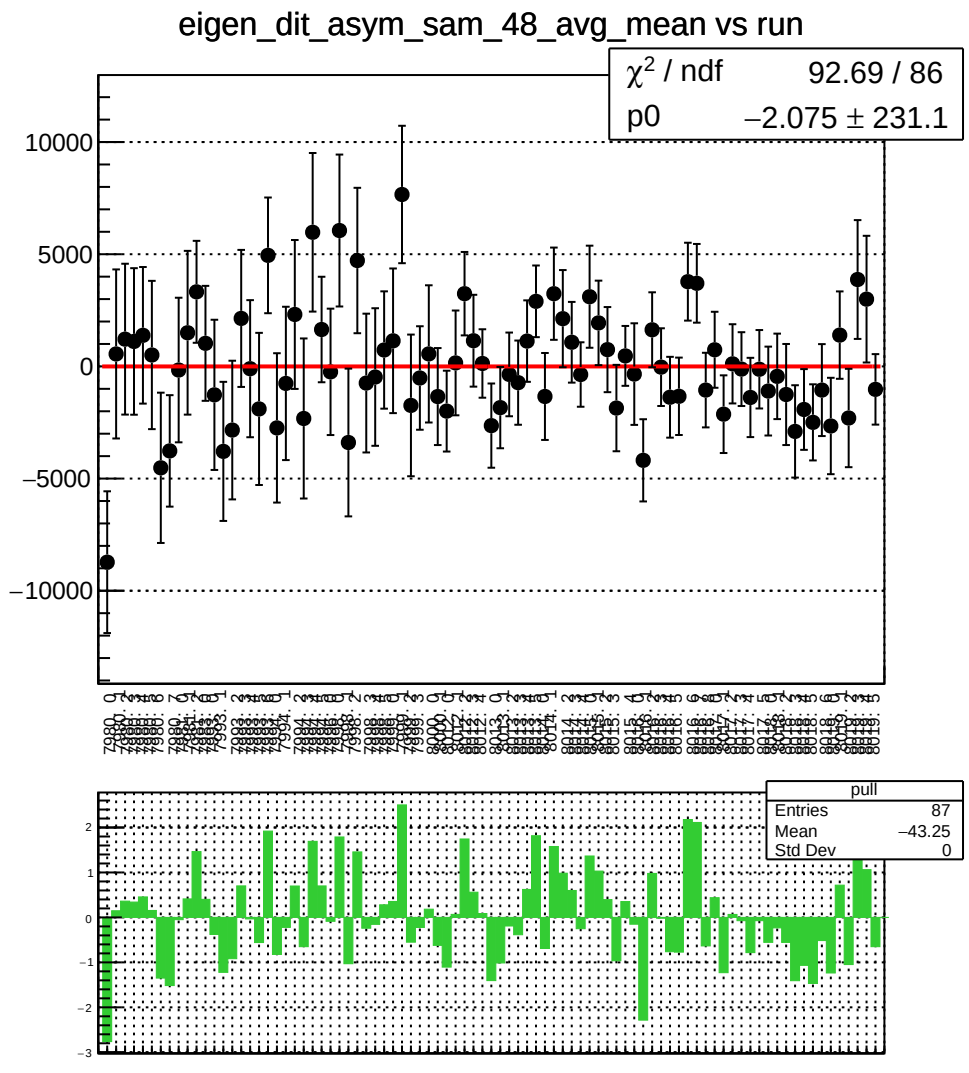

pull1D
Entries 87
Mean 0.01544
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

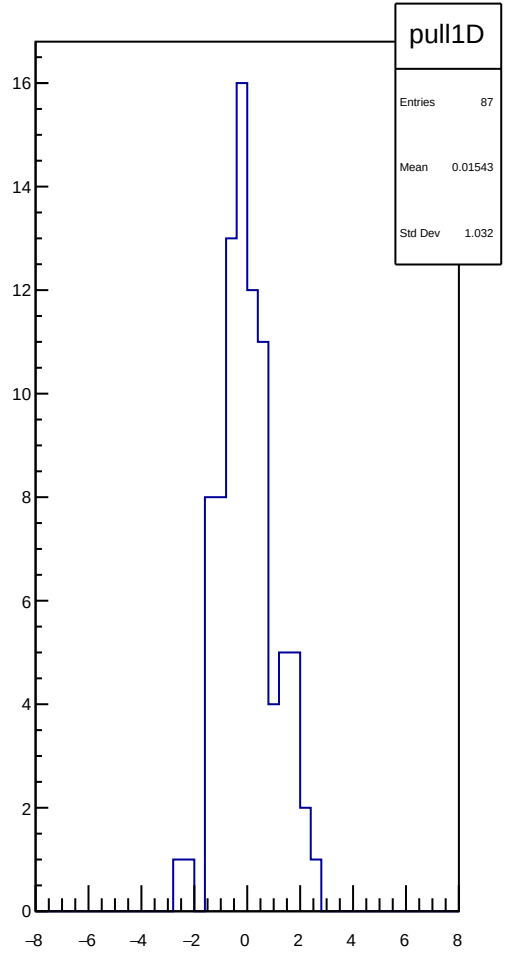

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.177e+05 / 86
p0 209.4 ± 0.1634
350
300
250
200
150

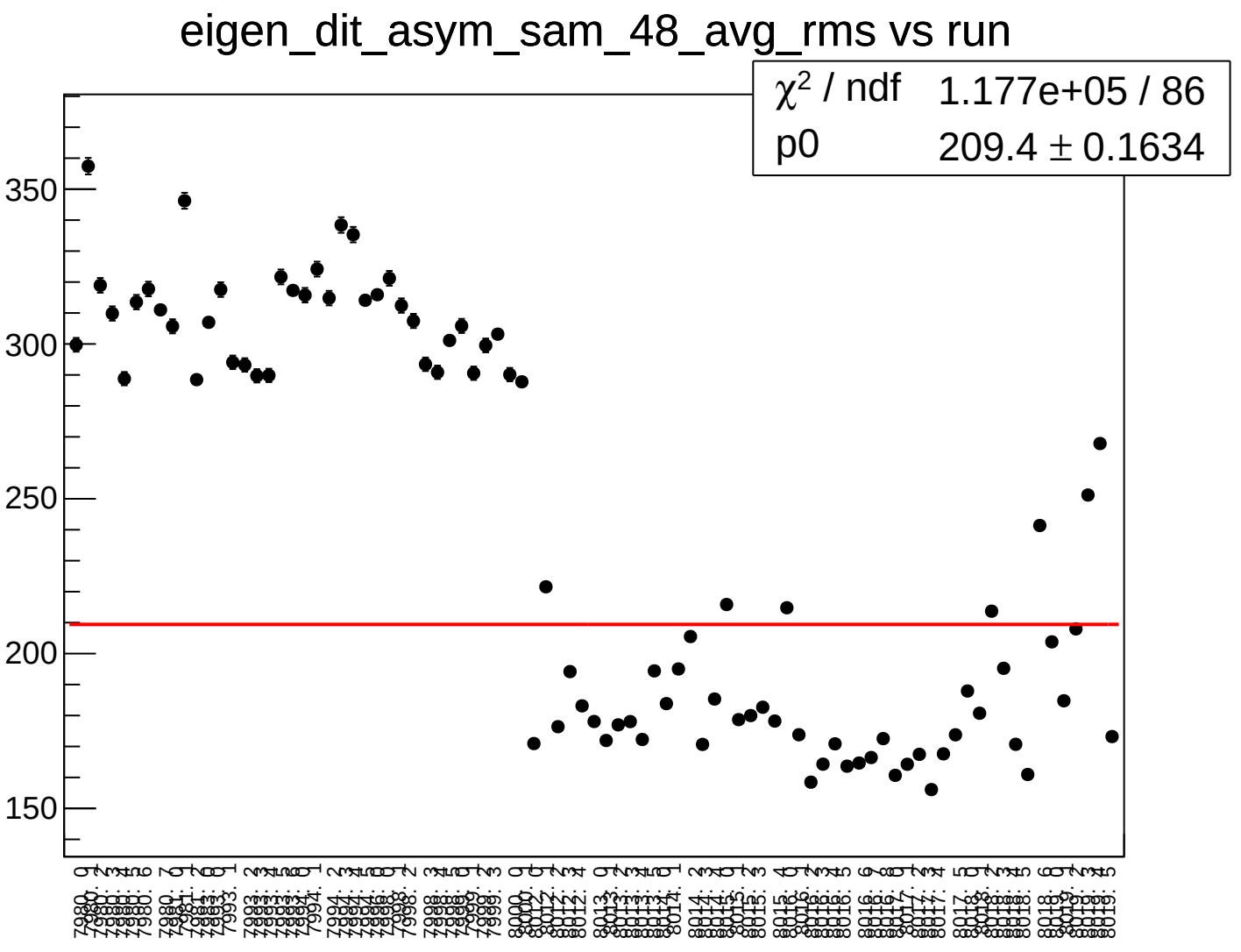

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 121.9 / 86
p0 1078 ± 2473
100
50
0
−50
−100
pull
Entries 87
Mean 1.096e+04
Std Dev 0
3
2
1
0
−1
−2
−3

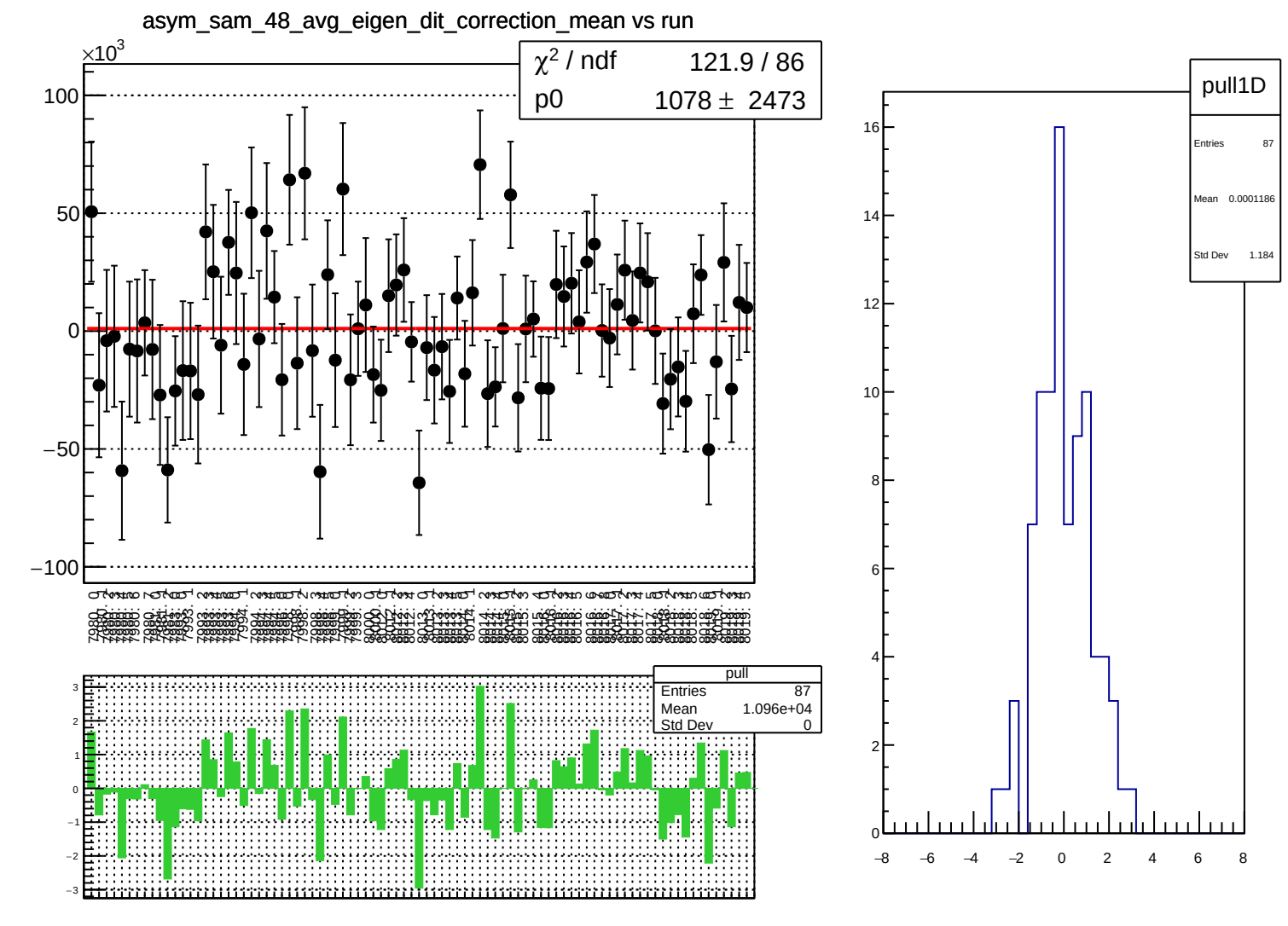

pull1D
Entries 87
Mean 0.0001186
Std Dev 1.184
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

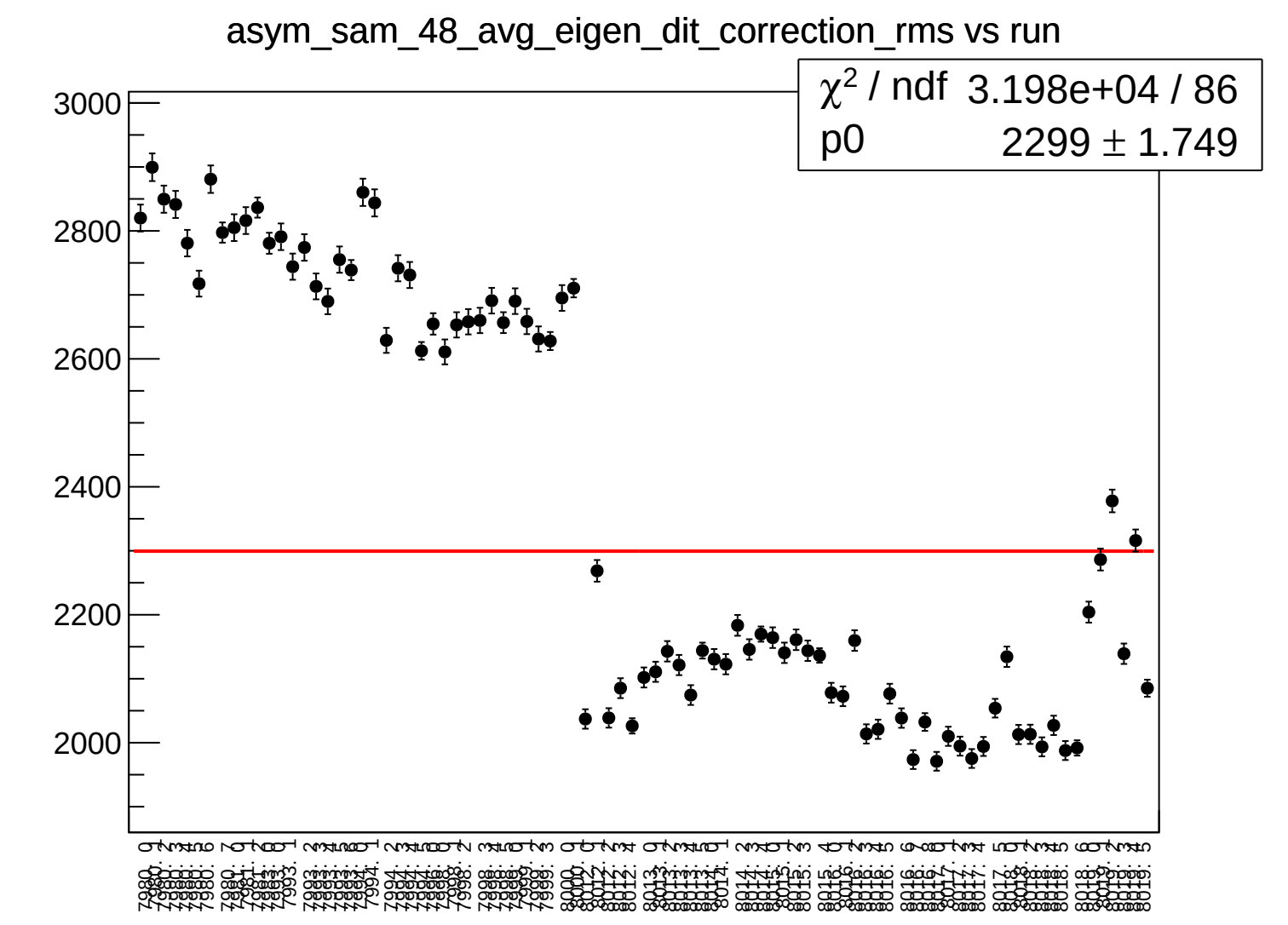

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 3.198e+04 / 86
p0 2299 ± 1.749
3000
2800
2600
2400
2200
2000

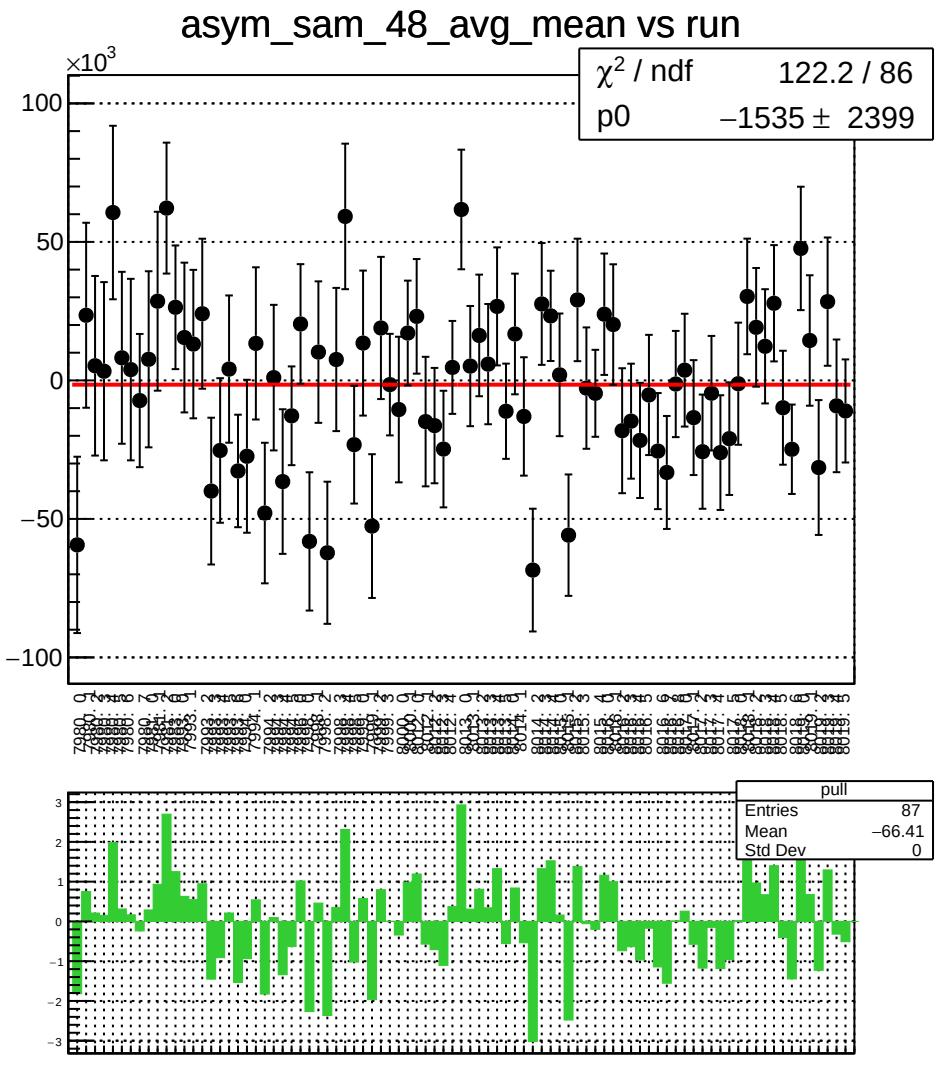

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 92.69 / 86
p0 −2.075 ± 231.1
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −43.25
Std Dev 0
2
1
0
−1
−2
−3

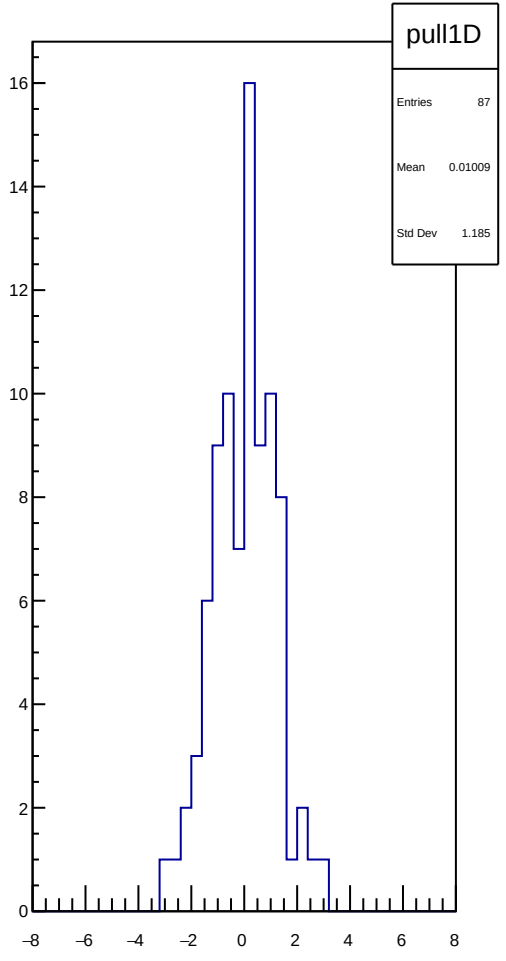

pull1D
Entries 87
Mean 0.01543
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

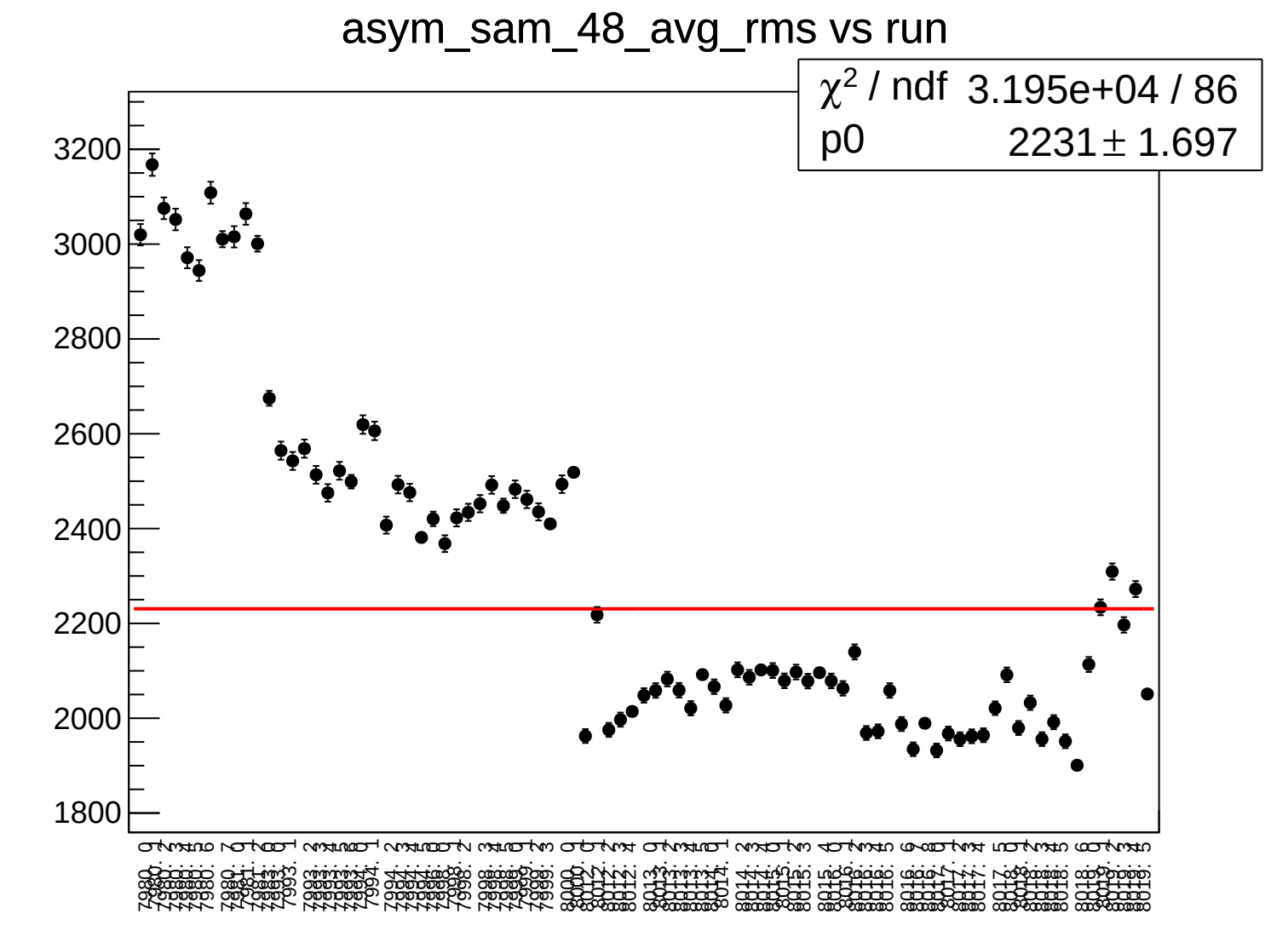

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.177e+05 / 86
p0 209.4 ± 0.1634
350
300
250
200
150

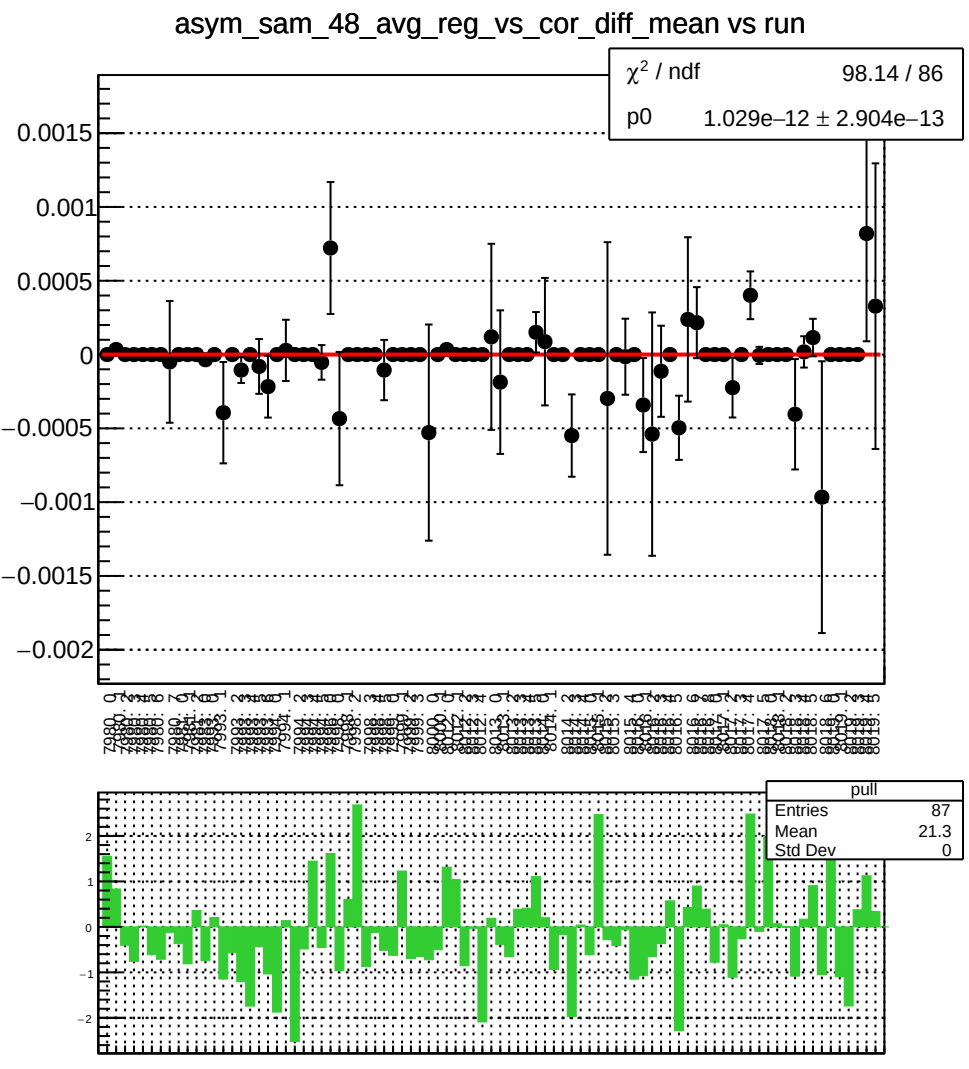

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 121.9 / 86
p0 1078 ± 2473
100
50
0
−50
−100
pull
Entries 87
Mean 1.096e+04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.0001186
Std Dev 1.184
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

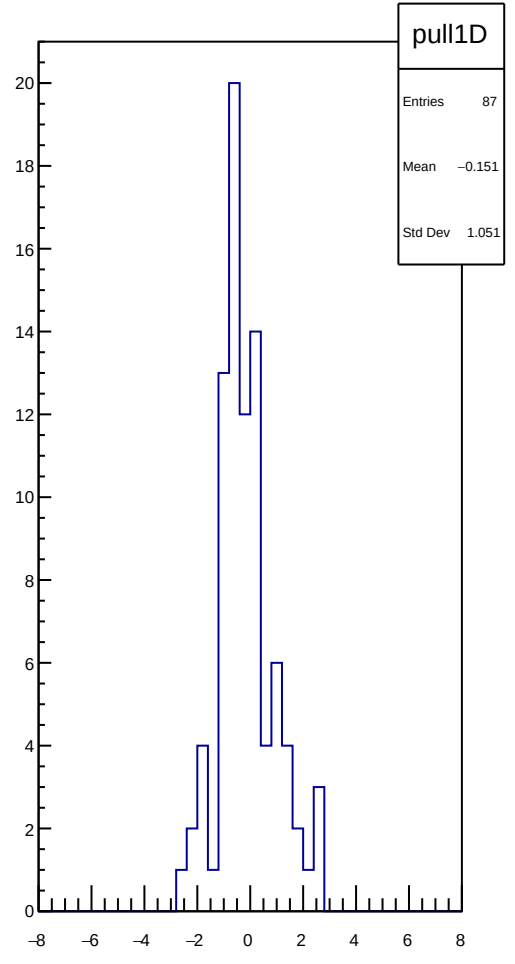

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.198e+04 / 86
p0 2299 ± 1.749
3000
2800
2600
2400
2200
2000

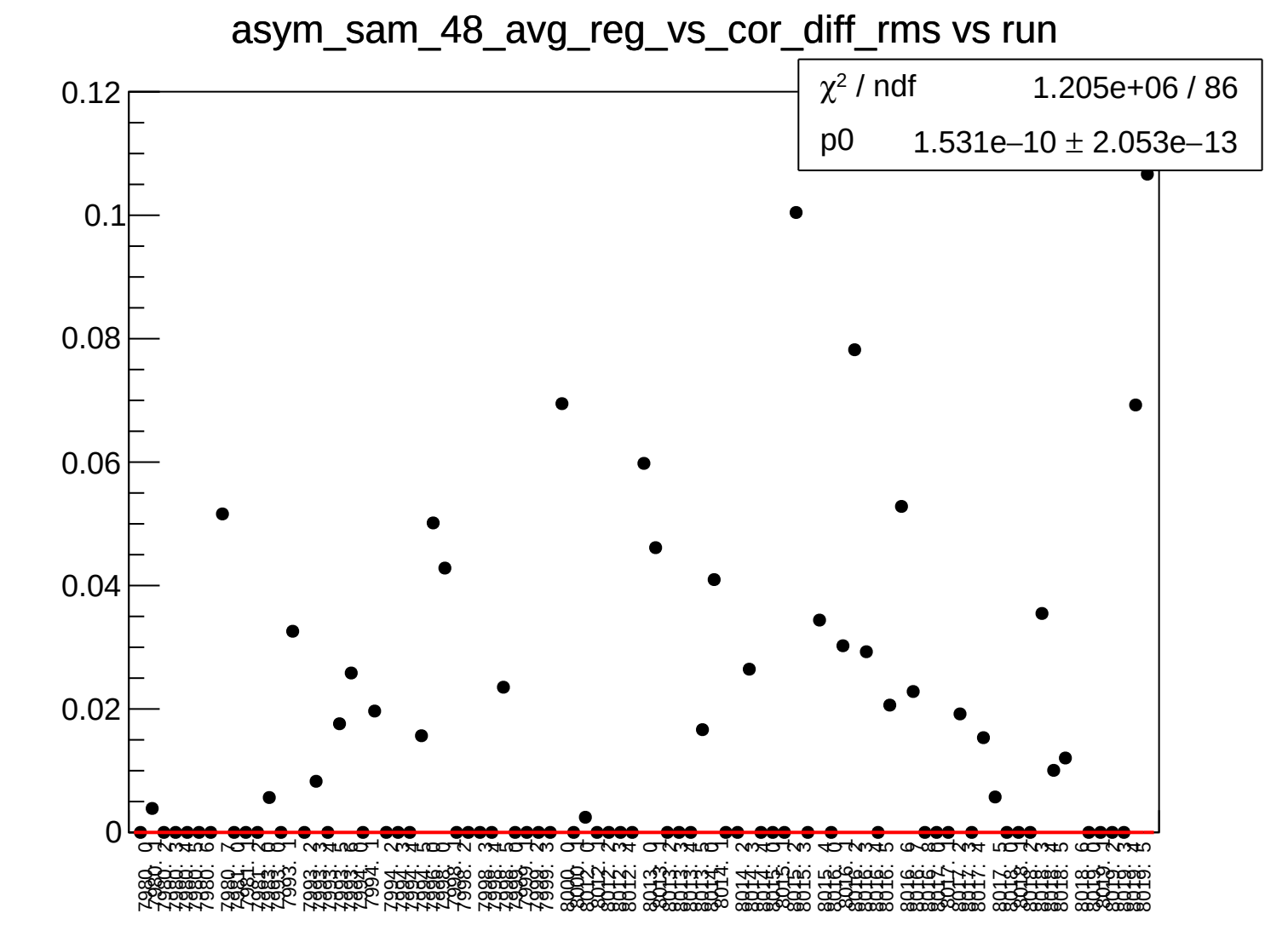

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 122.2 / 86
p0 −1535 ± 2399
100
50
0
−50
−100
pull
Entries 87
Mean −66.41
Std Dev 0
3
2
1
0
−1
−2
−3

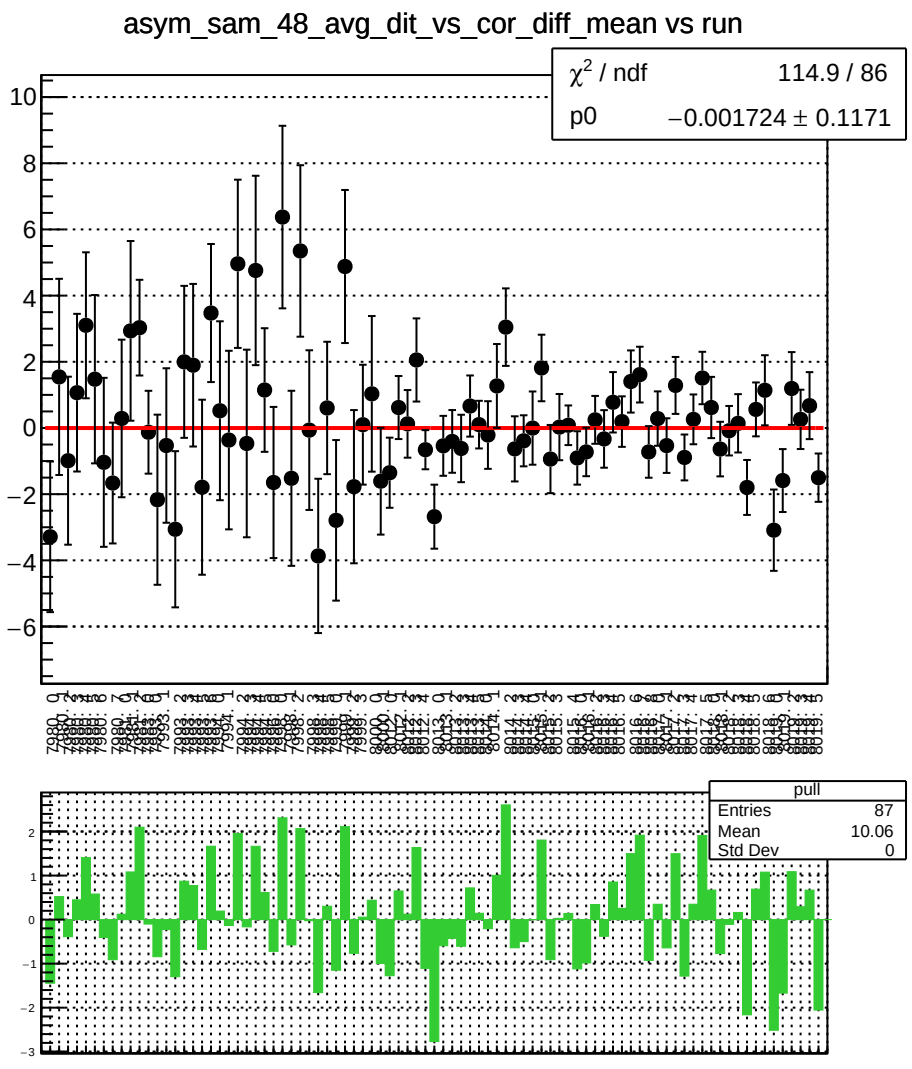

pull1D
Entries 87
Mean 0.01009
Std Dev 1.185
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

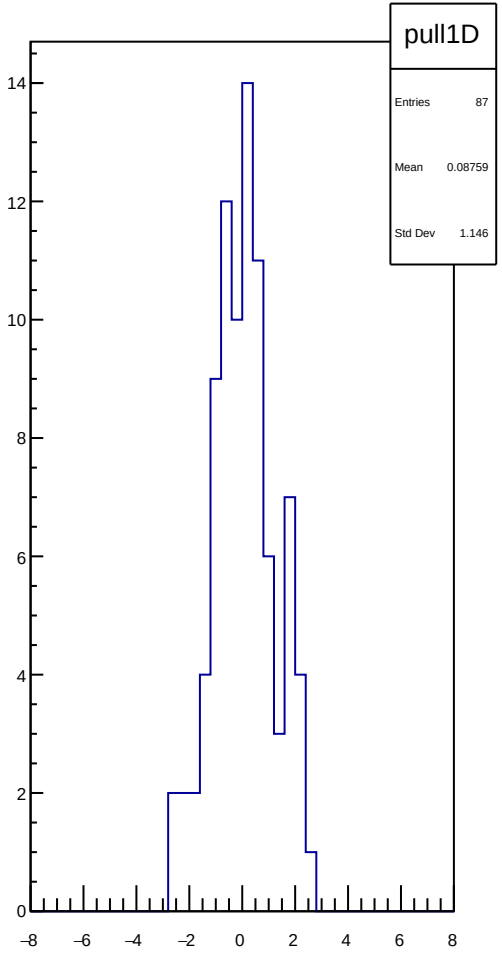

asym_sam_48_avg_rms vs run
χ^2 / ndf 3.195e+04 / 86
p0 2231 ± 1.697
3200
3000
2800
2600
2400
2200
2000
1800

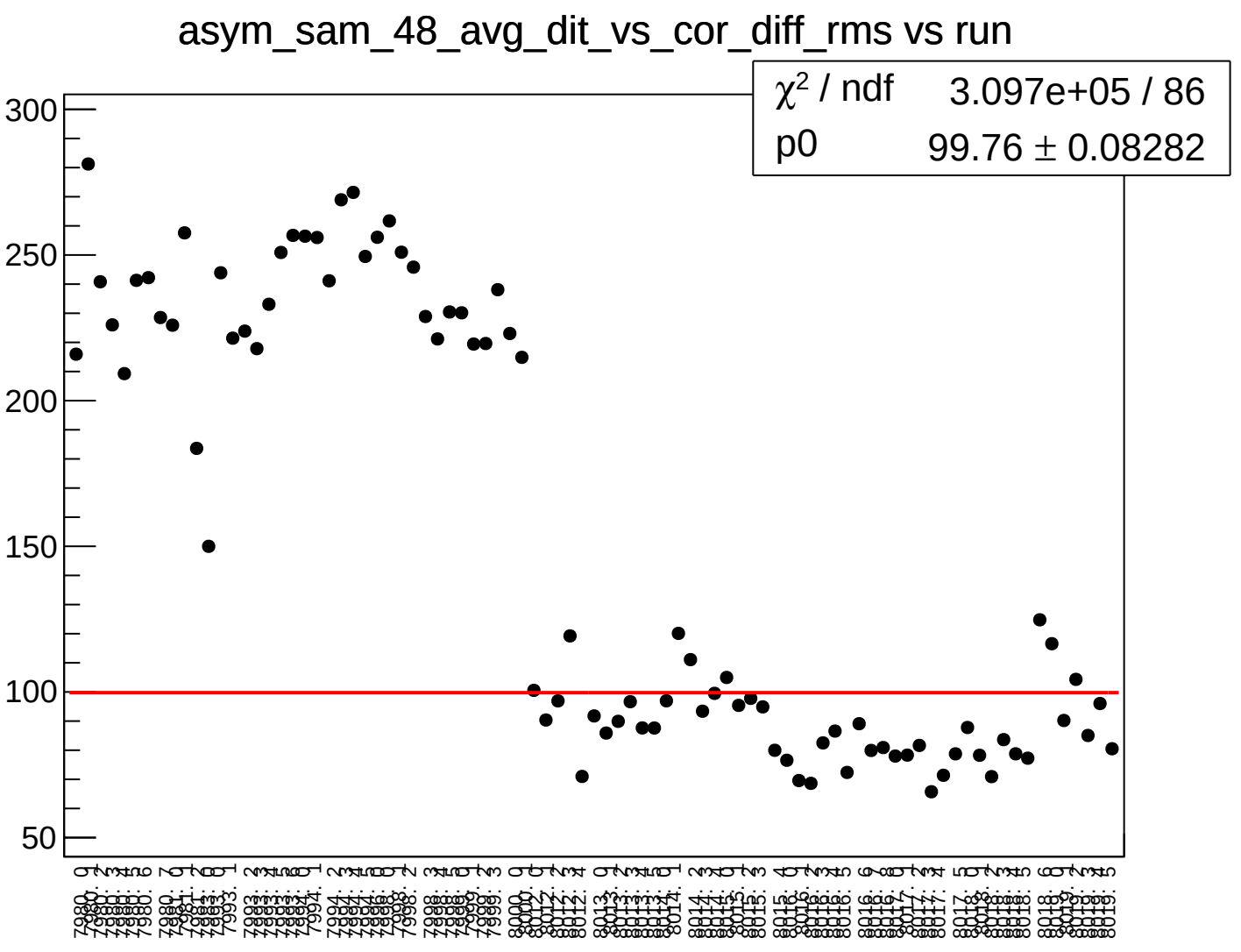

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.14 / 86
p0 1.029e−12 ± 2.904e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 87
Mean 21.3
Std Dev 0
2
1
0
−1
−2

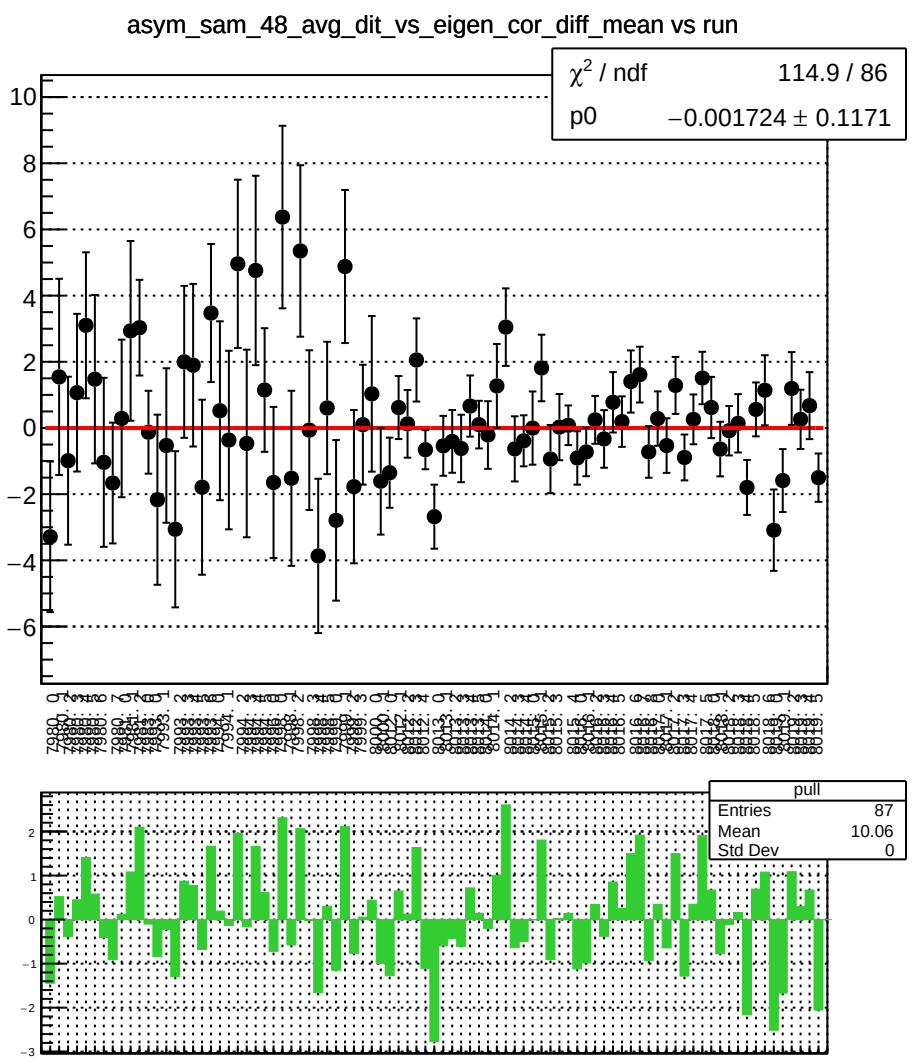

pull1D
Entries 87
Mean −0.151
Std Dev 1.051
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

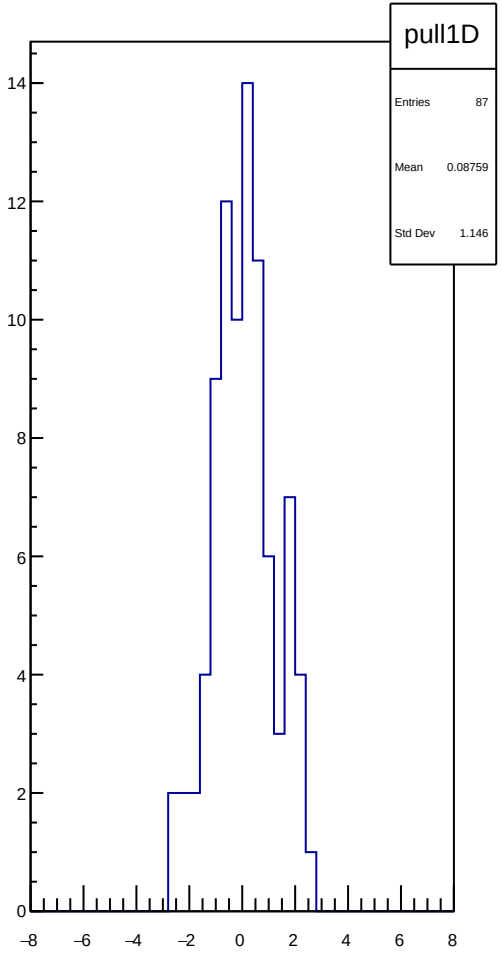

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.205e+06 / 86
p0 1.531e−10 ± 2.053e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

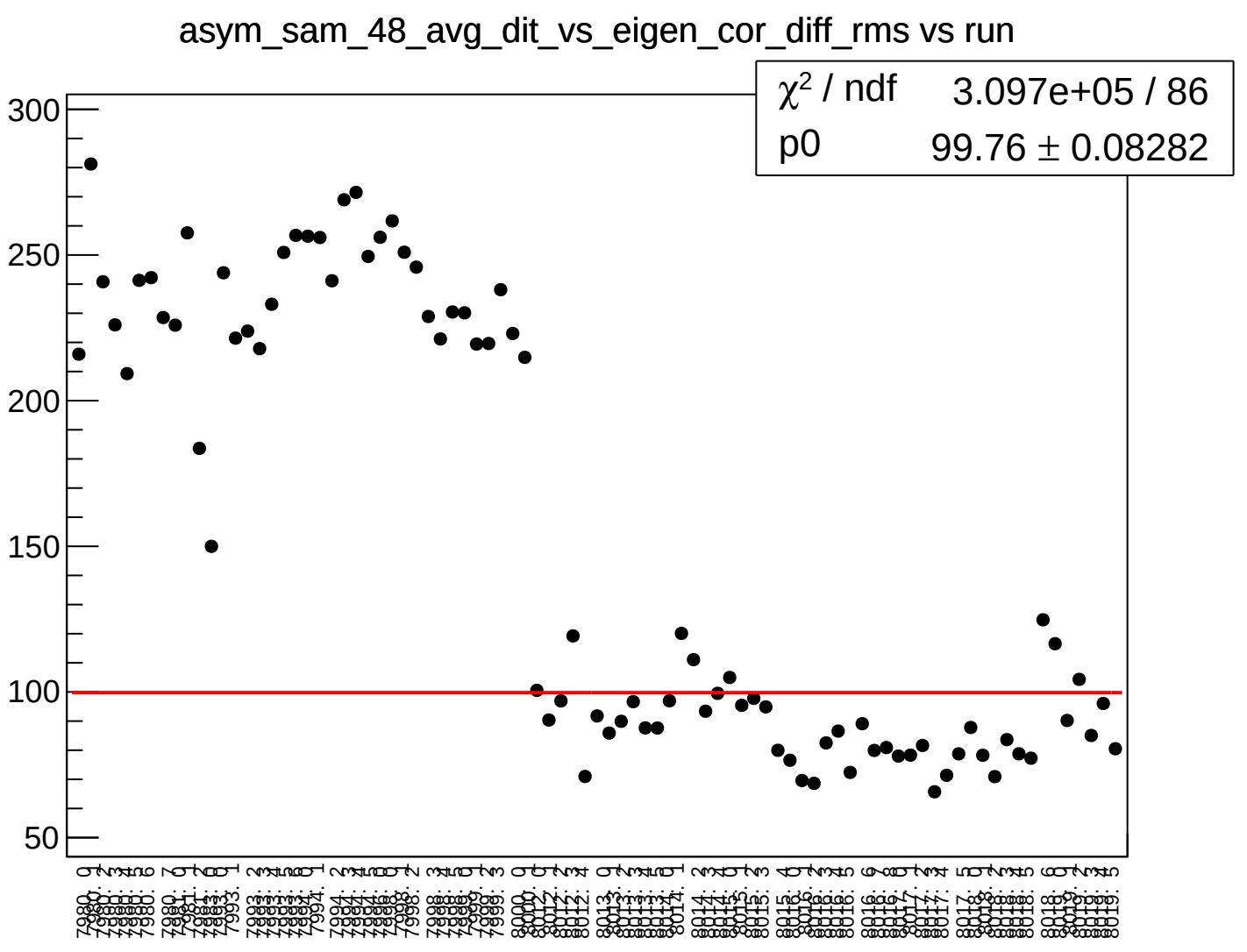

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 114.9 / 86
p0 −0.001724 ± 0.1171
pull
Entries 87
Mean 10.06
Std Dev 0

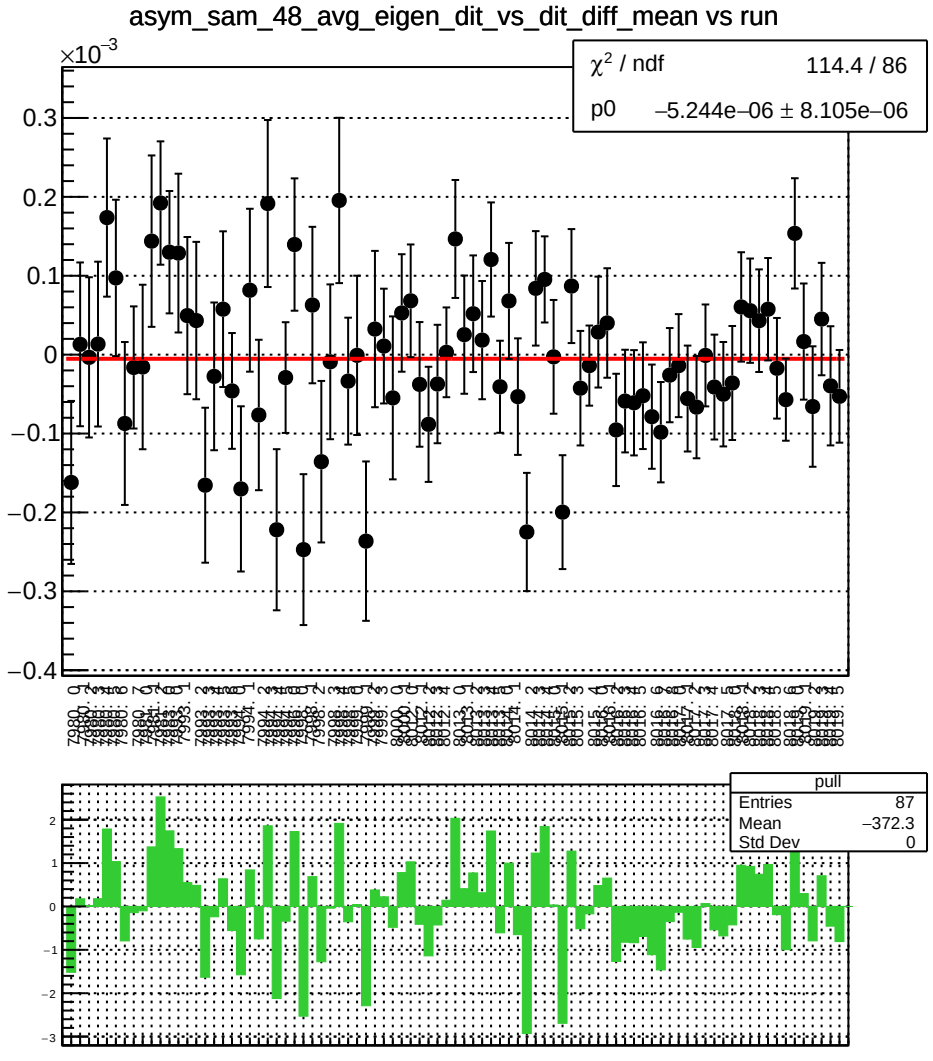

pull1D
Entries 87
Mean 0.08759
Std Dev 1.146

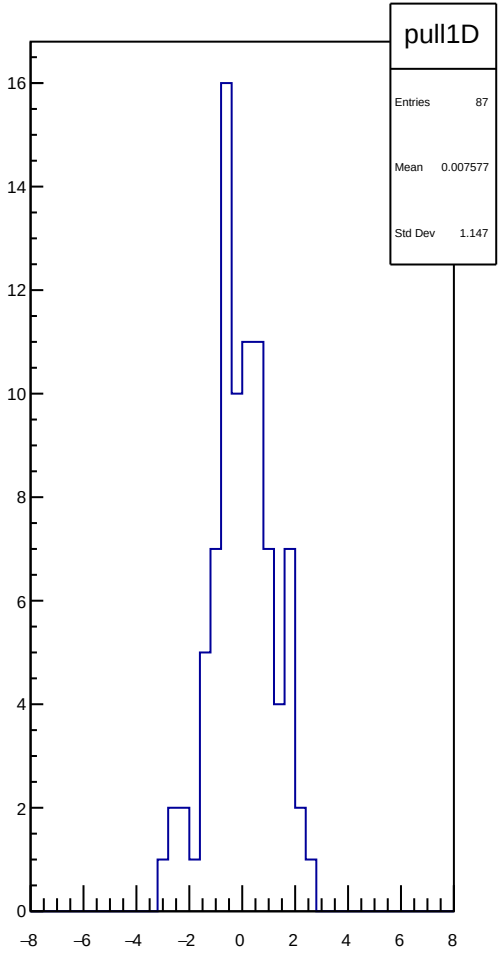

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.097e+05 / 86
p0 99.76 ± 0.08282
300
250
200
150
100
50

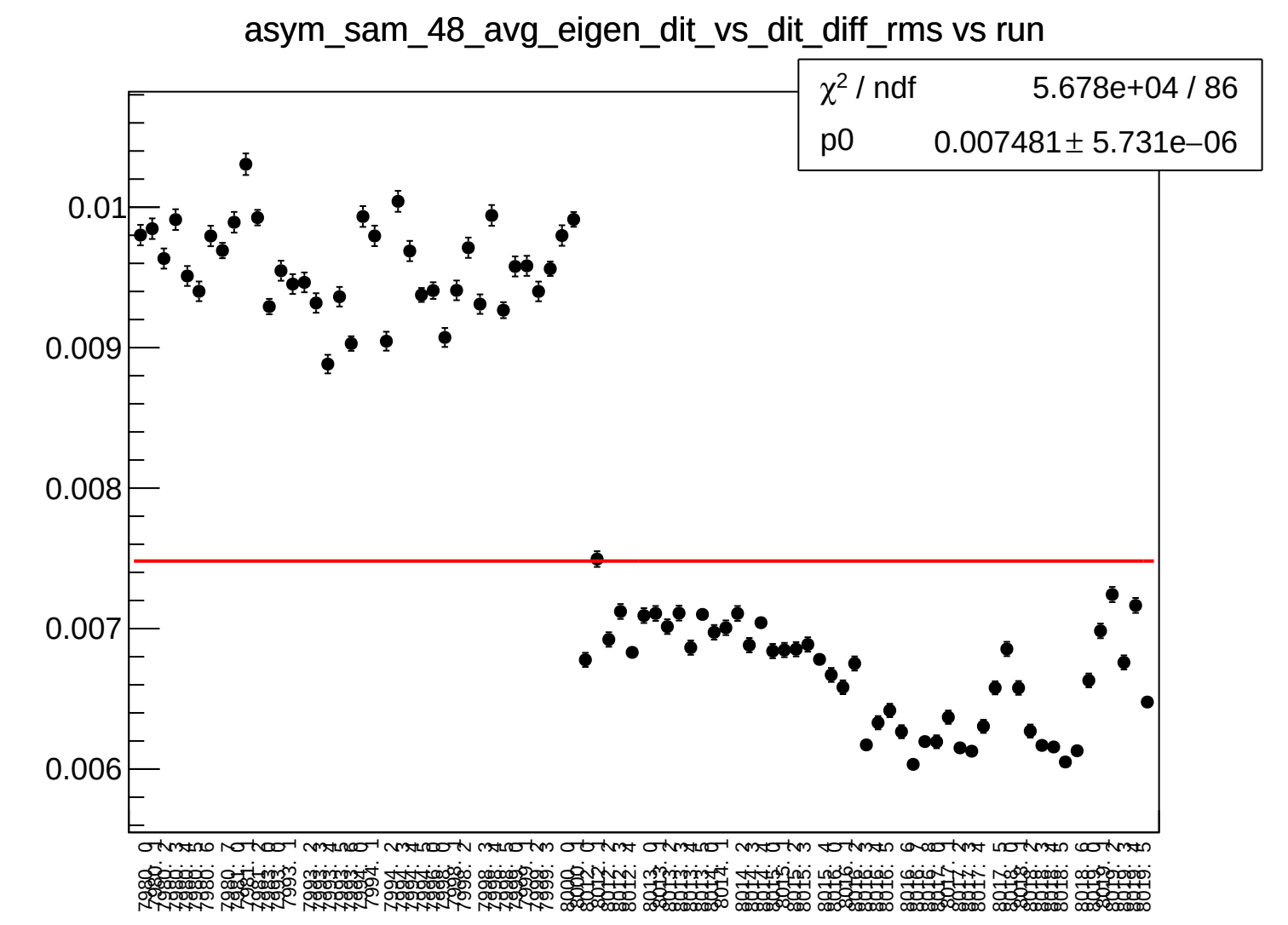

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.9 / 86
p0 −0.001724 ± 0.1171
pull
Entries 87
Mean 10.06
Std Dev 0

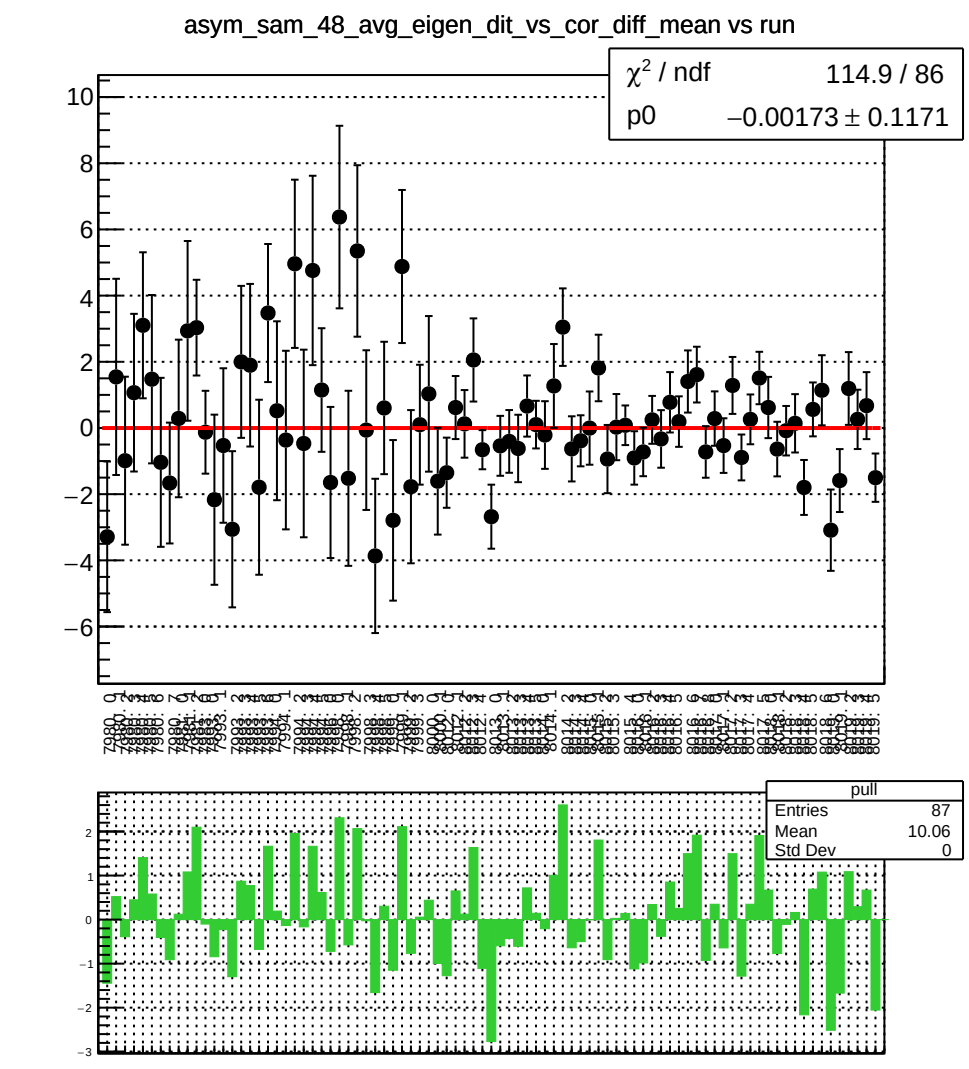

pull1D
Entries 87
Mean 0.08759
Std Dev 1.146

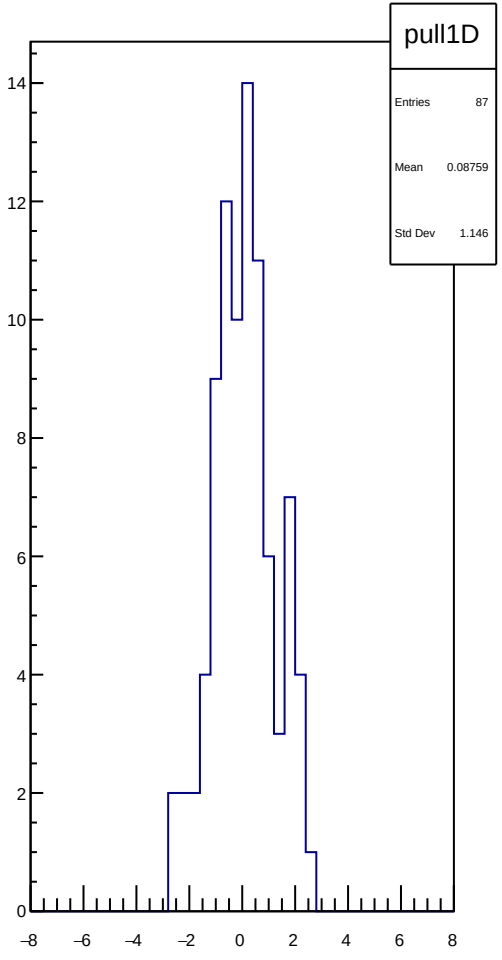

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.097e+05 / 86
p0 99.76 ± 0.08282
300
250
200
150
100
50

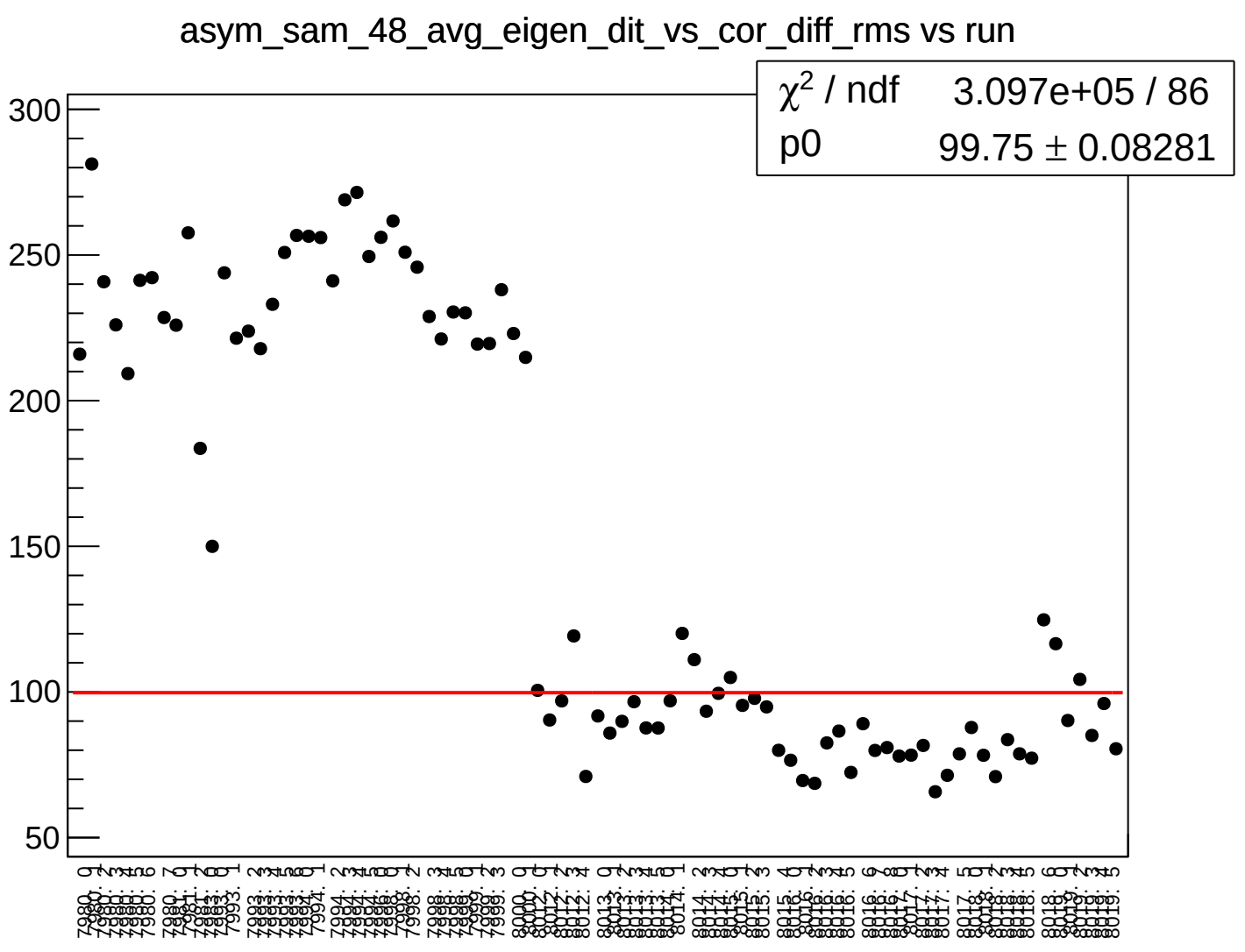

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.4 / 86
p0 −5.244e−06 ± 8.105e−06
pull
Entries 87
Mean −372.3
Std Dev 0

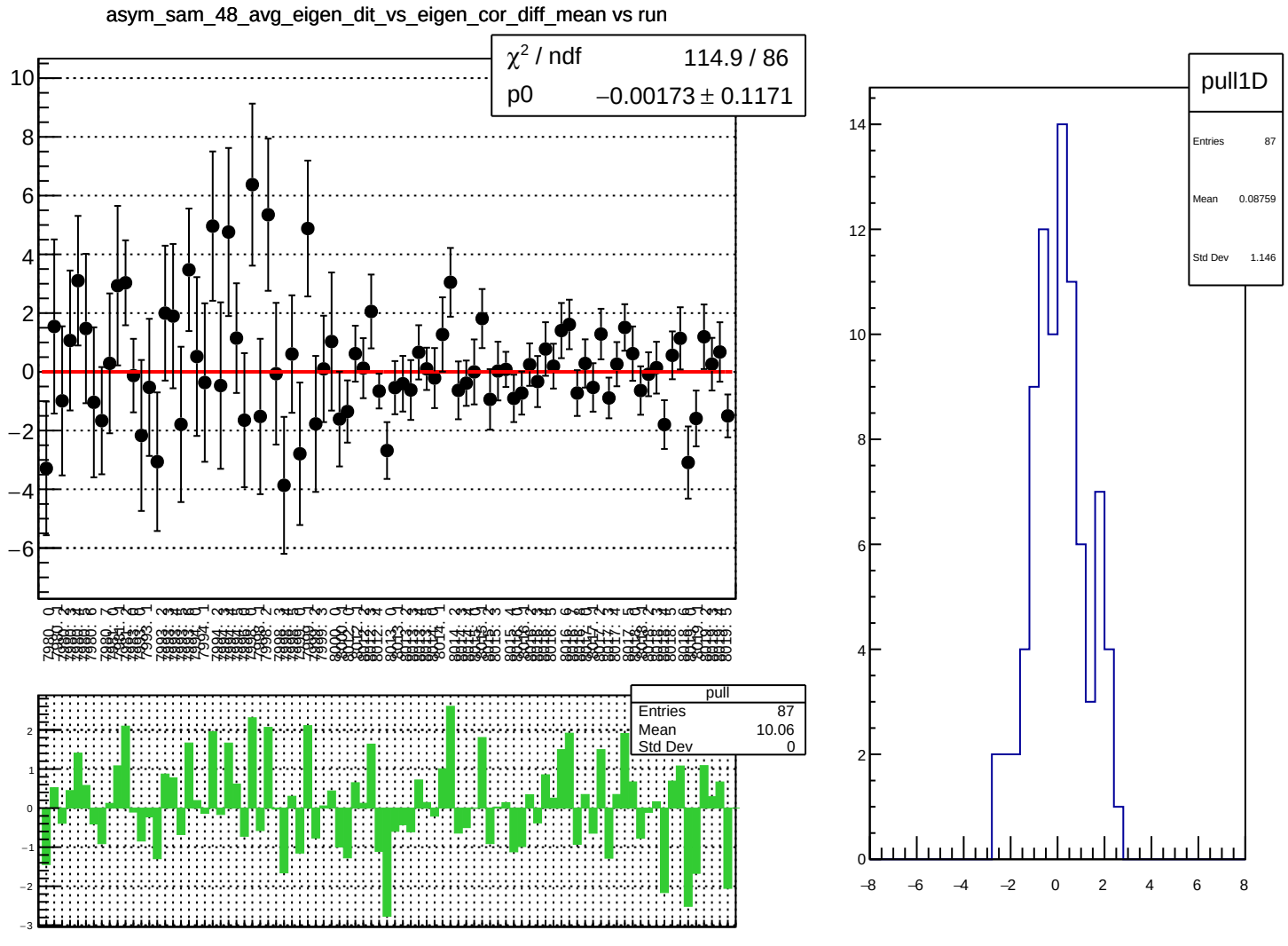

pull1D
Entries 87
Mean 0.007577
Std Dev 1.147

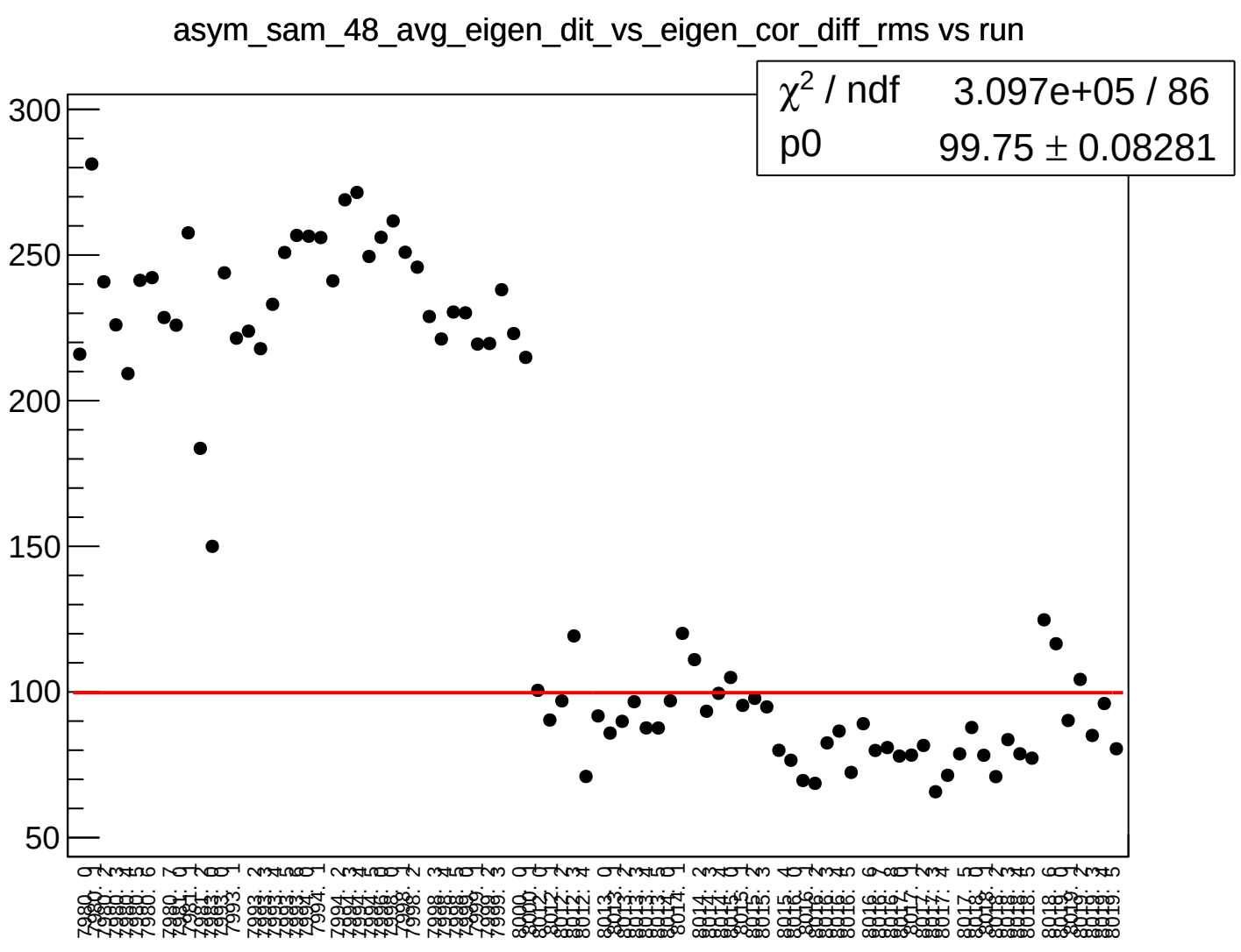

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.678e+04 / 86
p0 0.007481 ± 5.731e−06
0.01
0.009
0.008
0.007
0.006

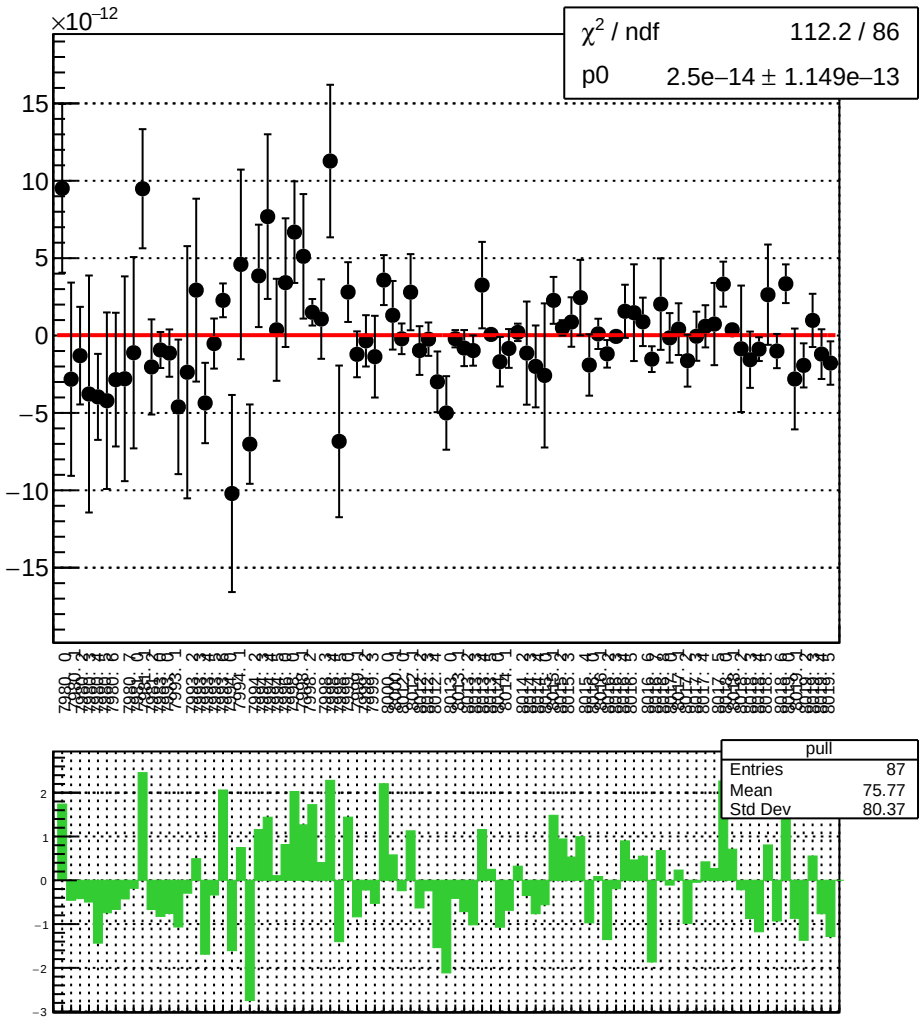

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114.9 / 86
p0 −0.00173 ± 0.1171
pull
Entries 87
Mean 10.06
Std Dev 0

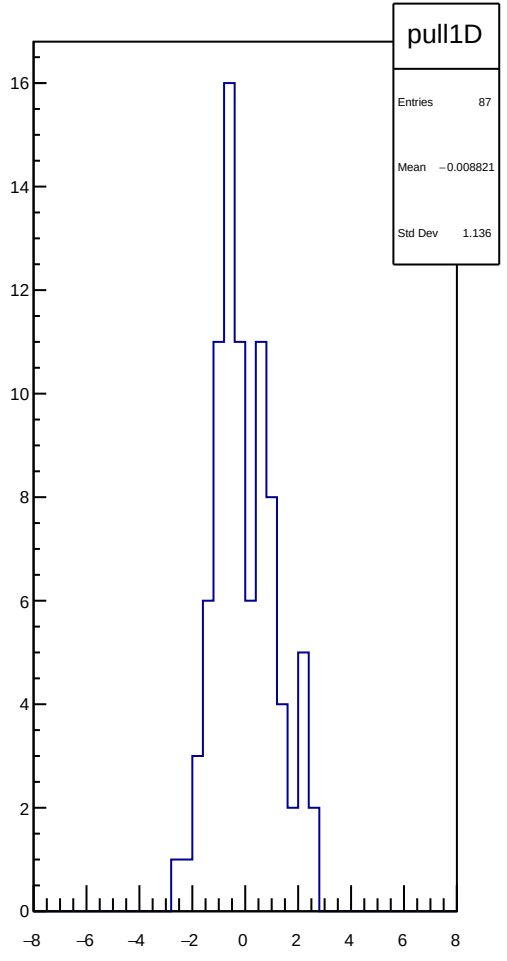

pull1D
Entries 87
Mean 0.08759
Std Dev 1.146

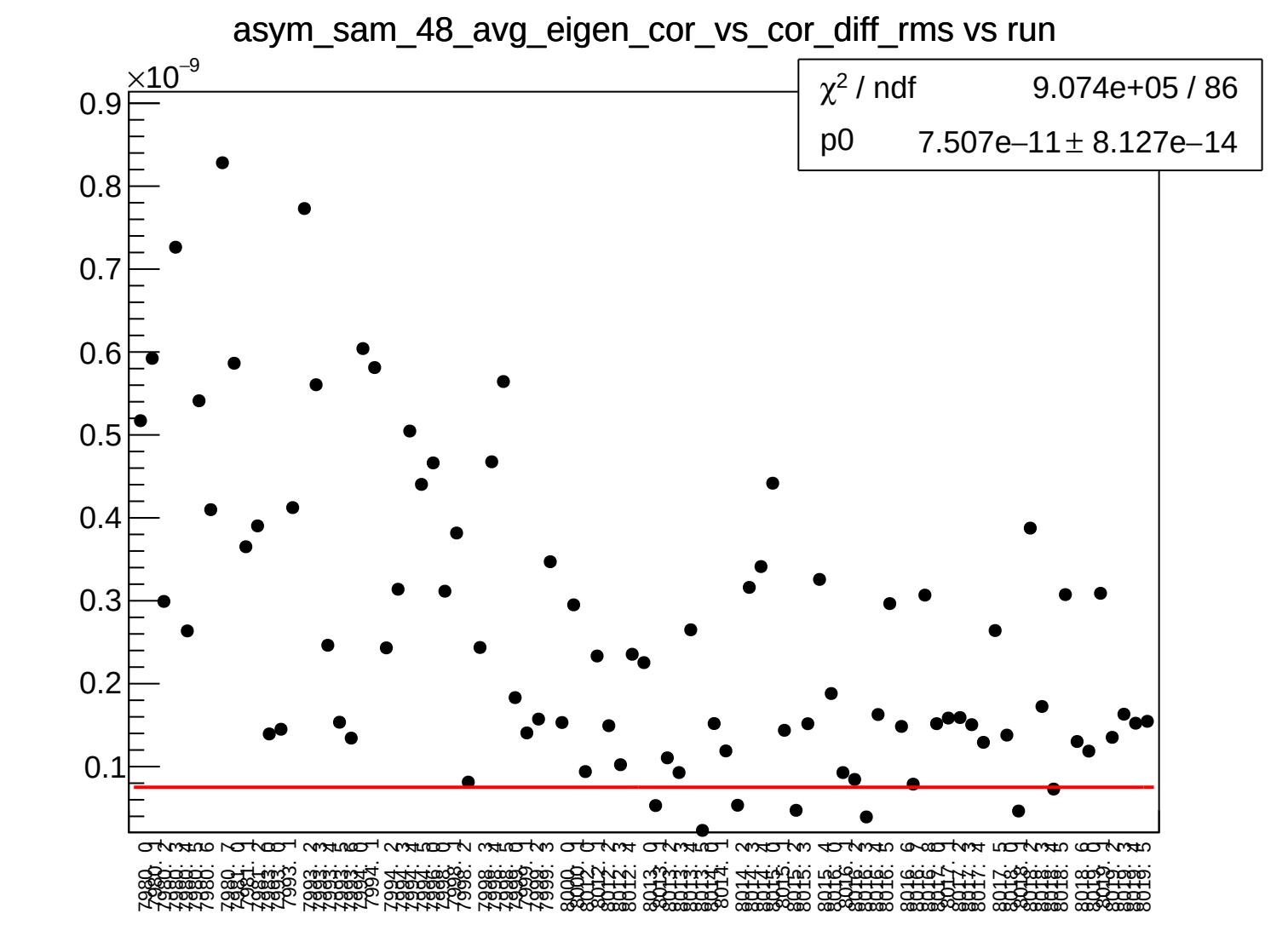

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.097e+05 / 86
p0 99.75 ± 0.08281
300
250
200
150
100
50

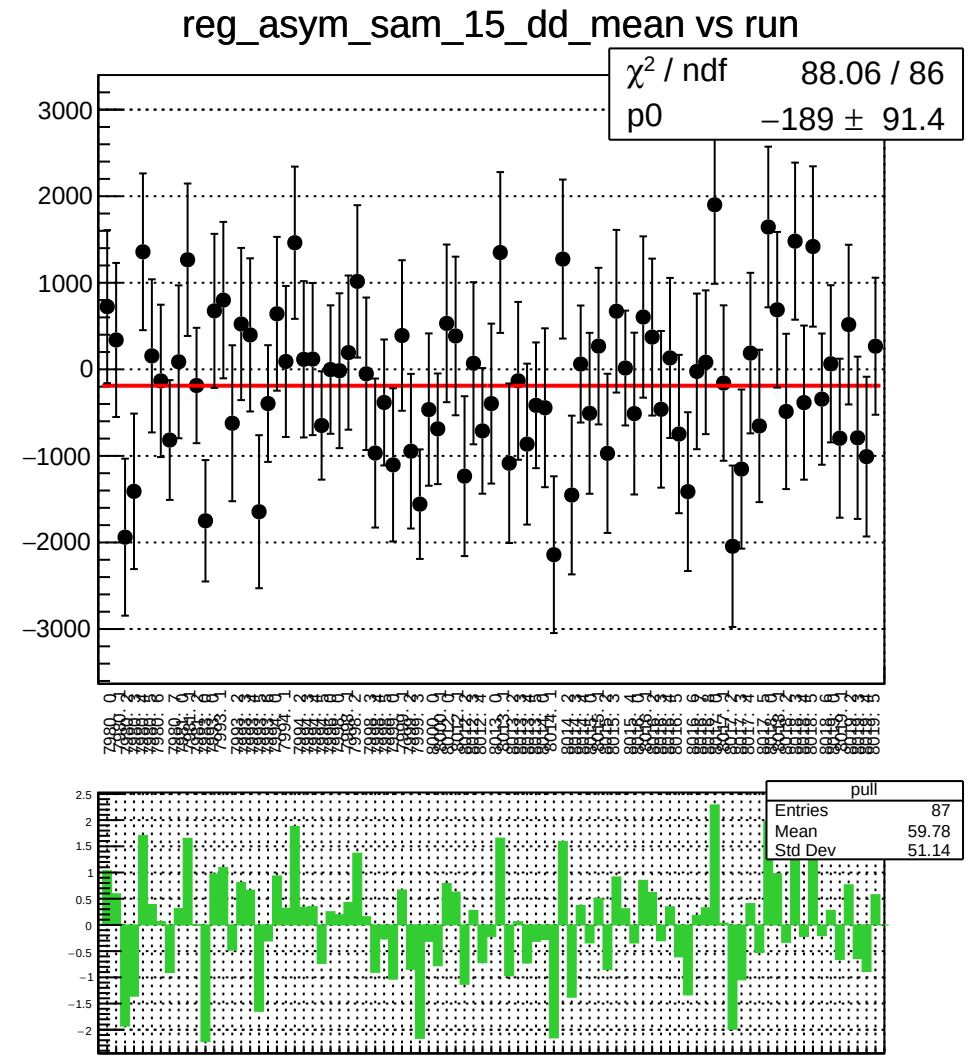

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.9 / 86
p0 −0.00173 ± 0.1171
pull
Entries 87
Mean 10.06
Std Dev 0
pull1D
Entries 87
Mean 0.08759
Std Dev 1.146

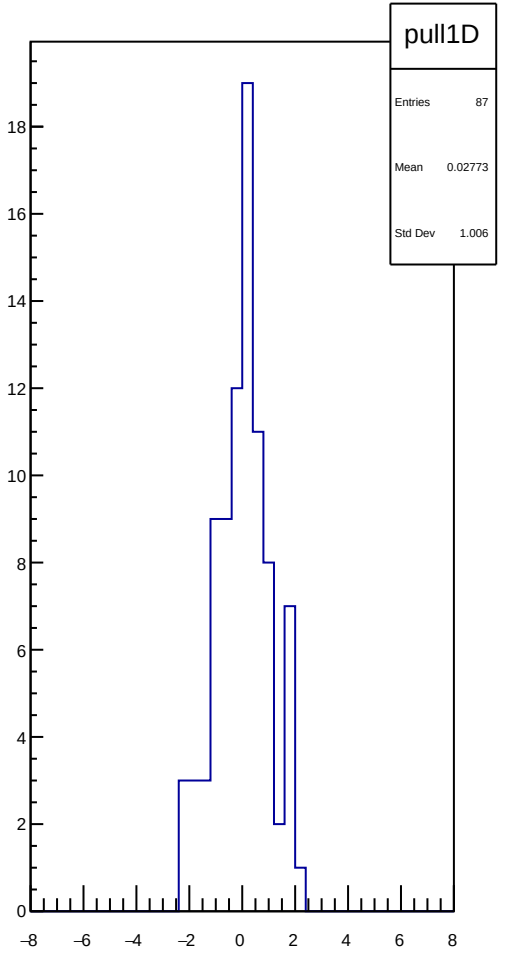

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.097e+05 / 86
p0 99.75 ± 0.08281
300
250
200
150
100
50

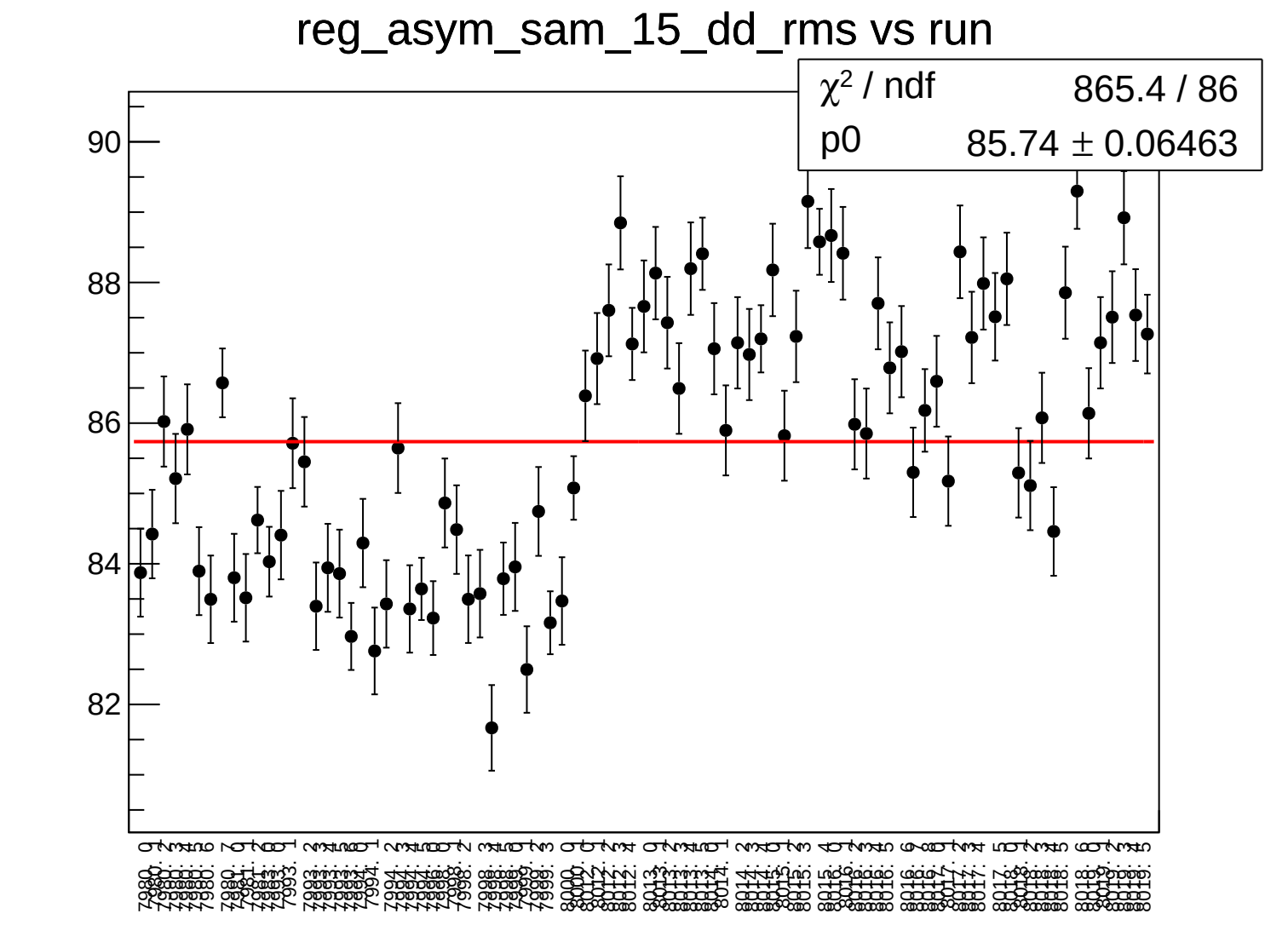

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.2 / 86
p0 2.5e−14 ± 1.149e−13
15
10
5
0
−5
−10
−15
pull
Entries 87
Mean 75.77
Std Dev 80.37
2
1
0
−1
−2
−3

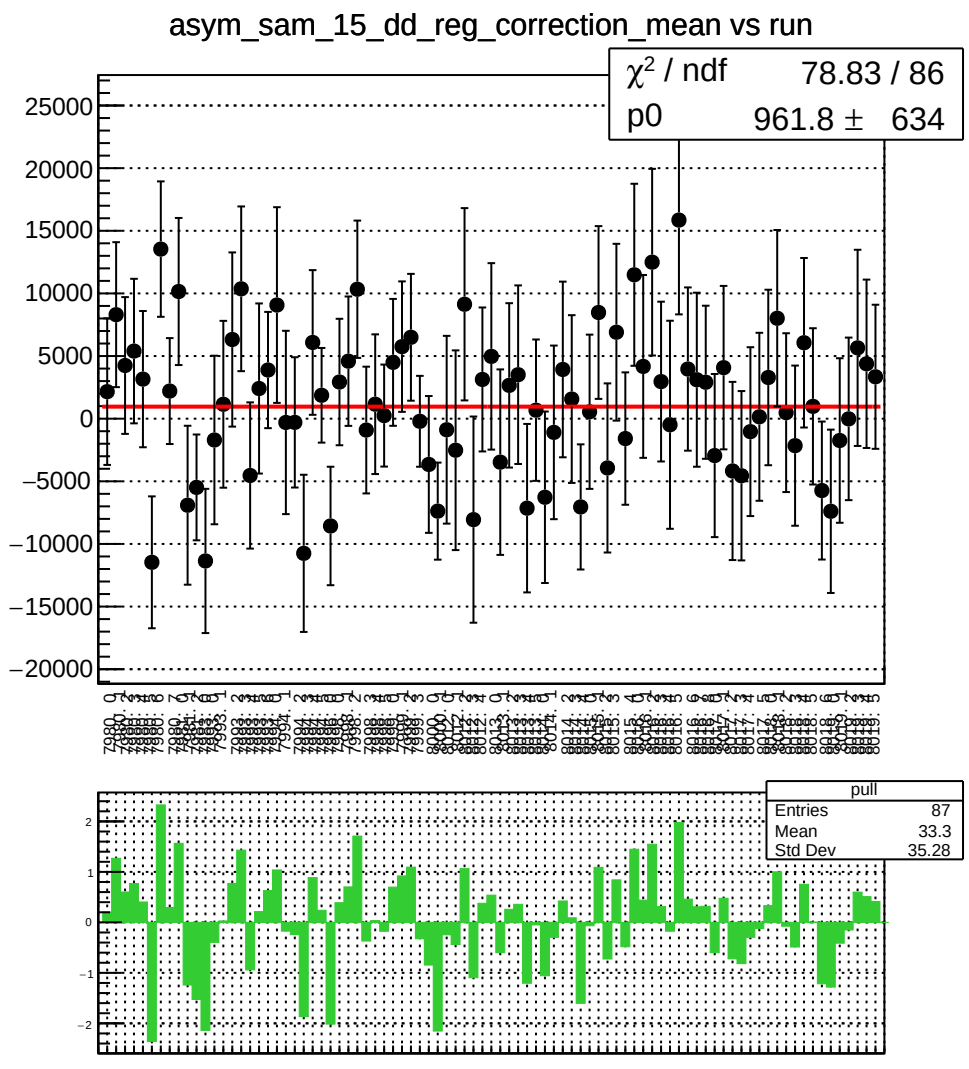

pull1D
Entries 87
Mean −0.008821
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

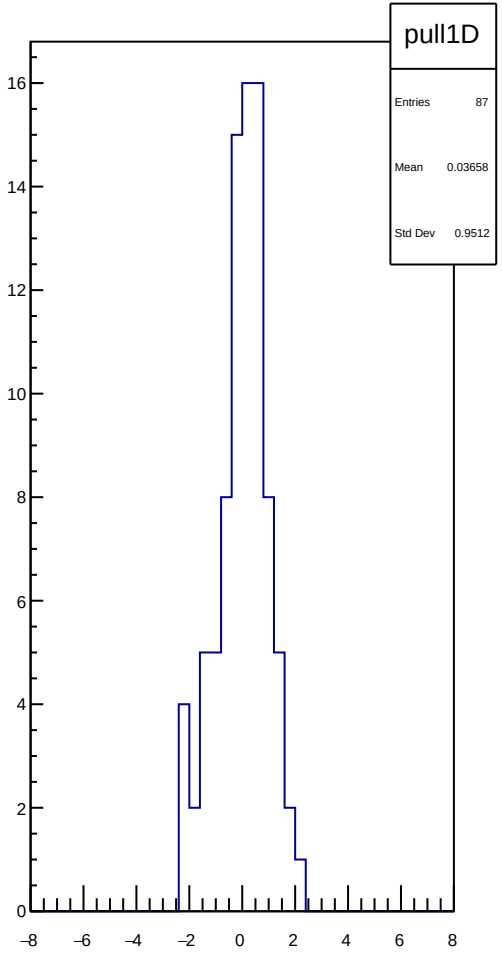

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 9.074e+05 / 86
p0 7.507e−11 ± 8.127e−14

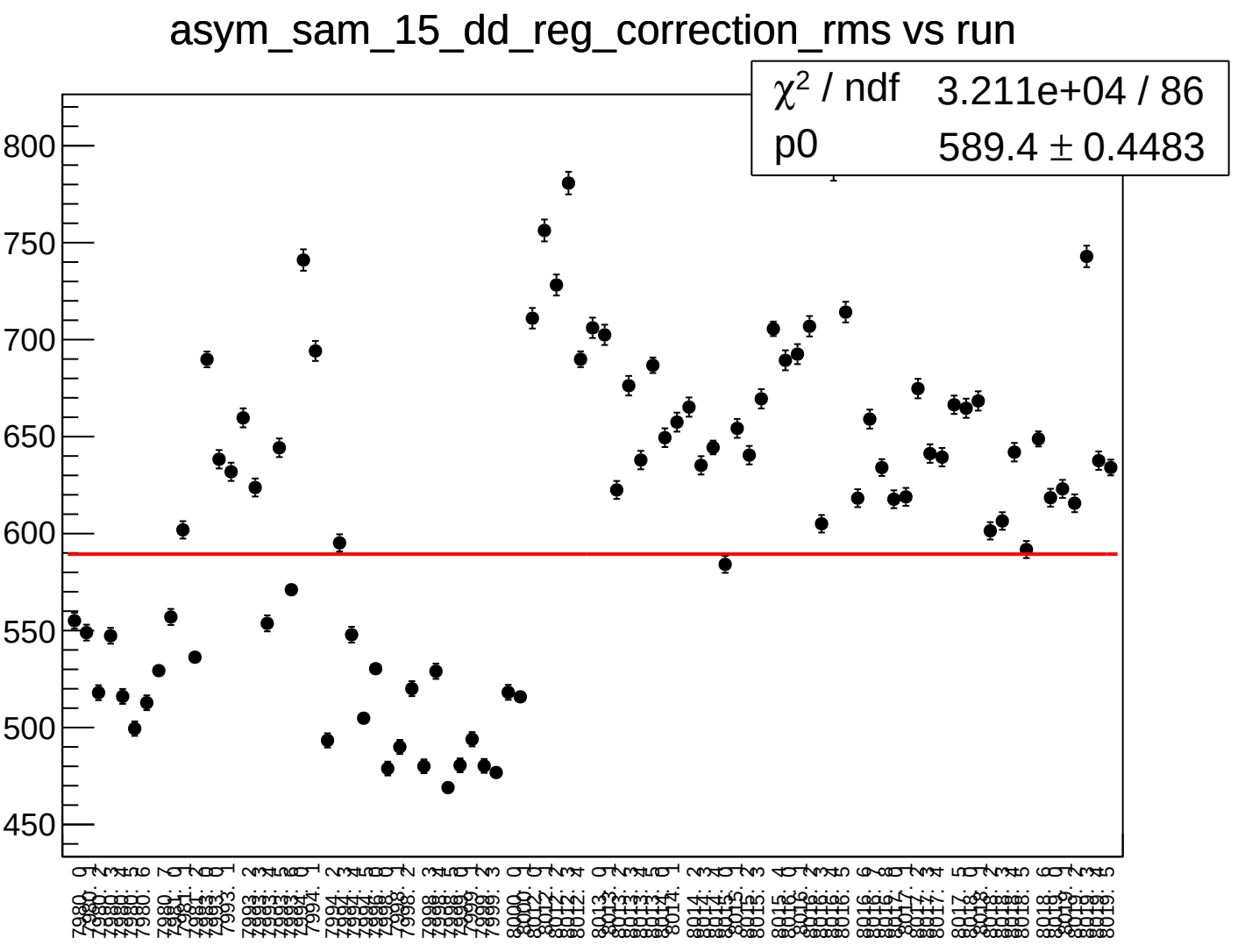

reg_asym_sam_15_dd_mean vs run
χ² / ndf 88.06 / 86
p0 −189 ± 91.4
pull
Entries 87
Mean 59.78
Std Dev 51.14

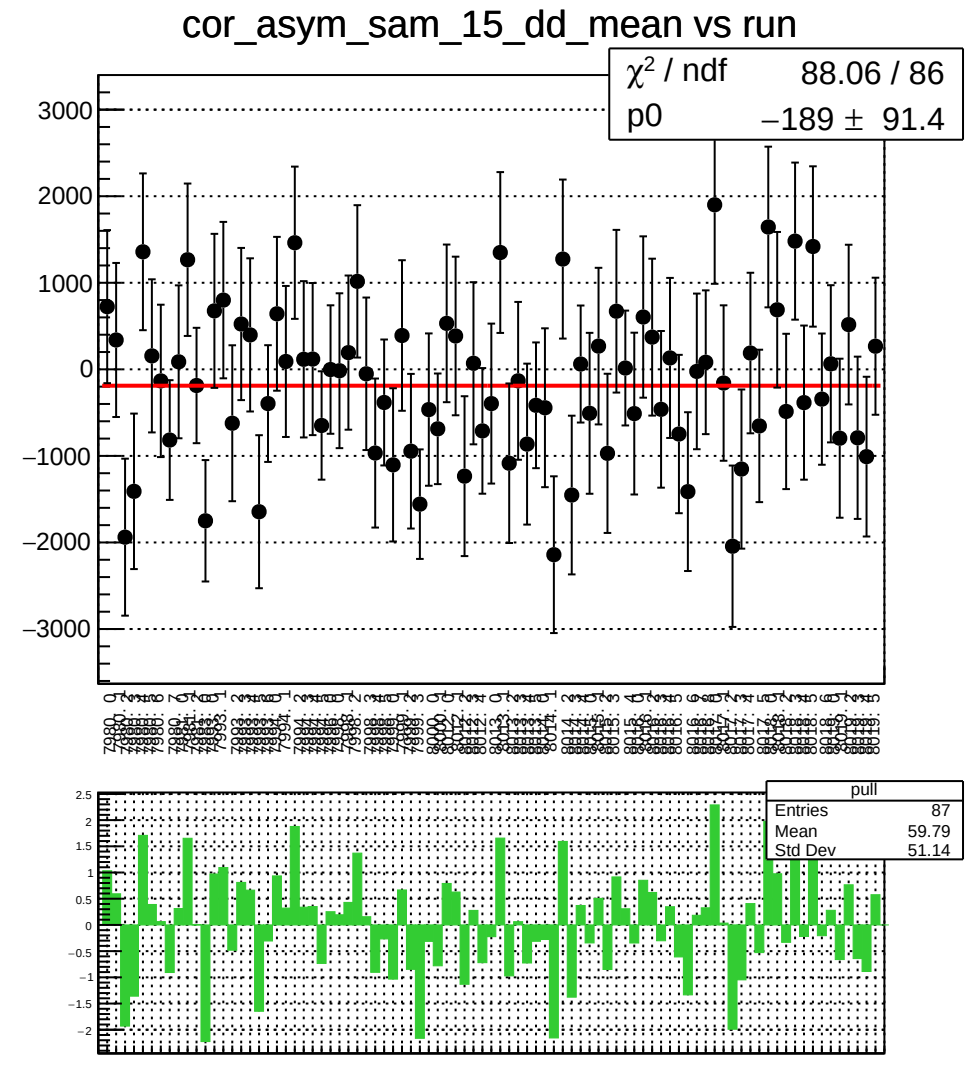

pull1D
Entries 87
Mean 0.02773
Std Dev 1.006

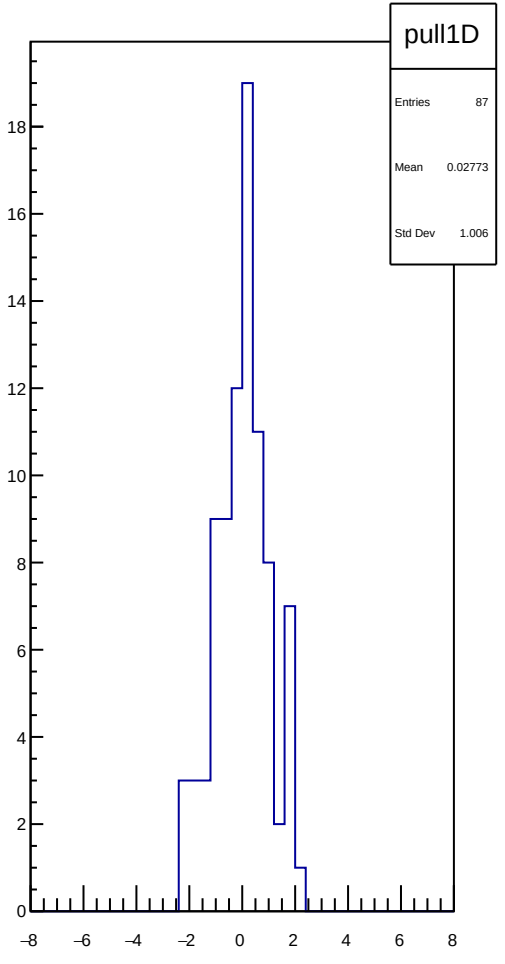

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 865.4 / 86
p0 85.74 ± 0.06463
90
88
86
84
82

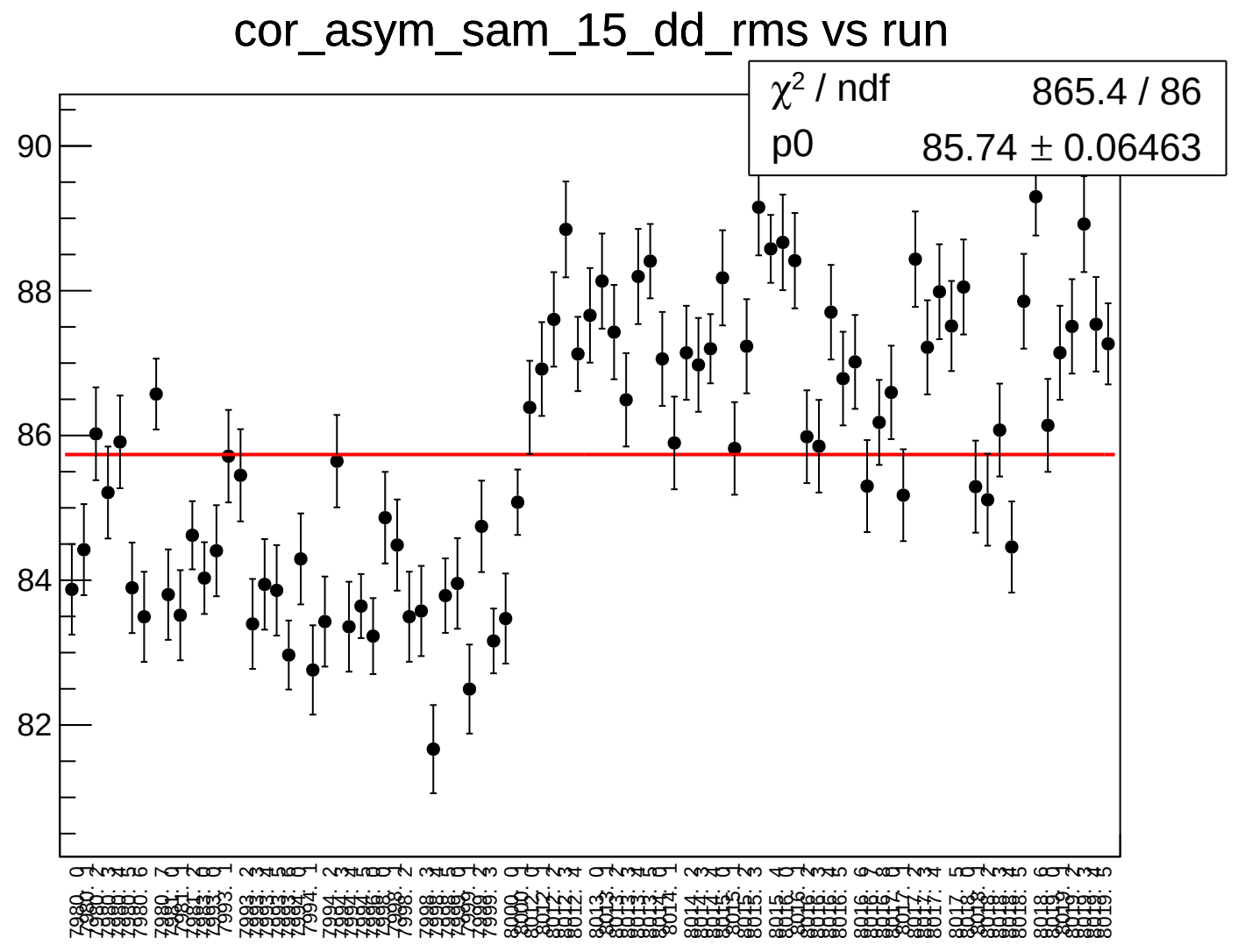

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 78.83 / 86
p0 961.8 ± 634
pull
Entries 87
Mean 33.3
Std Dev 35.28

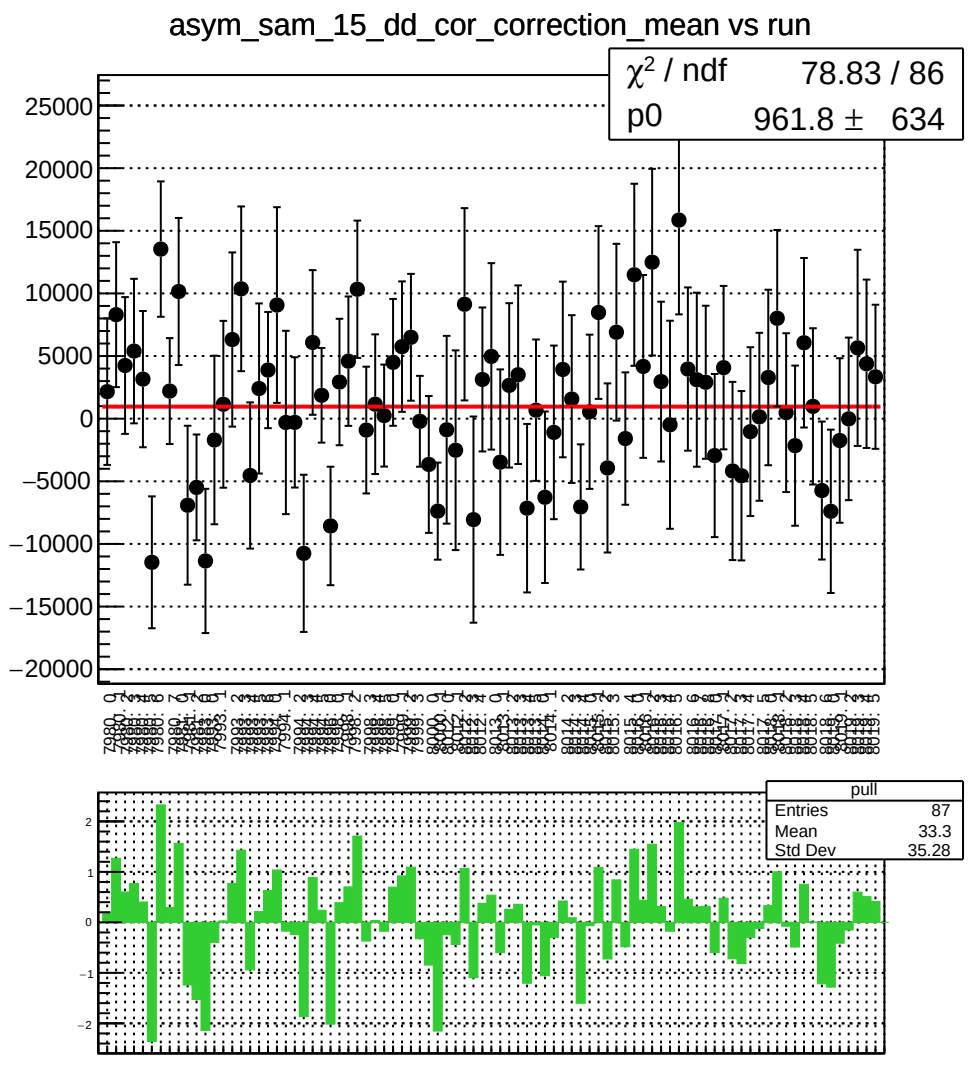

pull1D
Entries 87
Mean 0.03658
Std Dev 0.9512

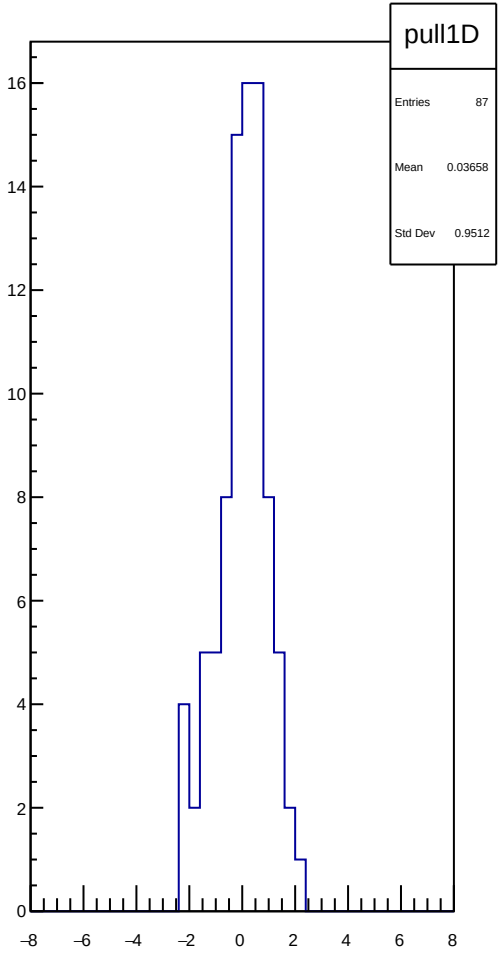

asym_sam_15_dd_reg_correction_rms vs run
χ^2 / ndf 3.211e+04 / 86
p0 589.4 ± 0.4483
800
750
700
650
600
550
500
450

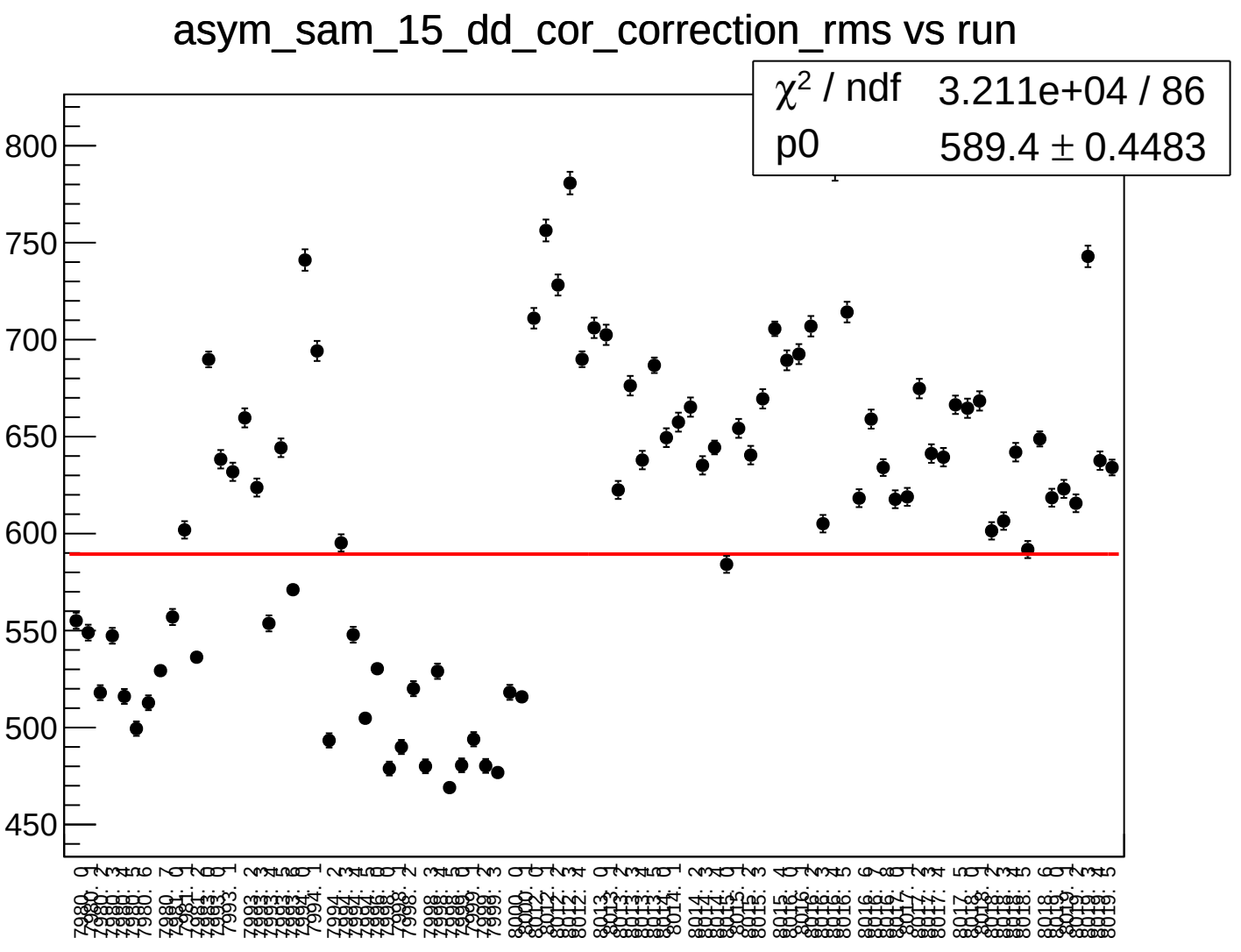

cor_asym_sam_15_dd_mean vs run
χ² / ndf 88.06 / 86
p0 −189 ± 91.4
pull
Entries 87
Mean 59.79
Std Dev 51.14

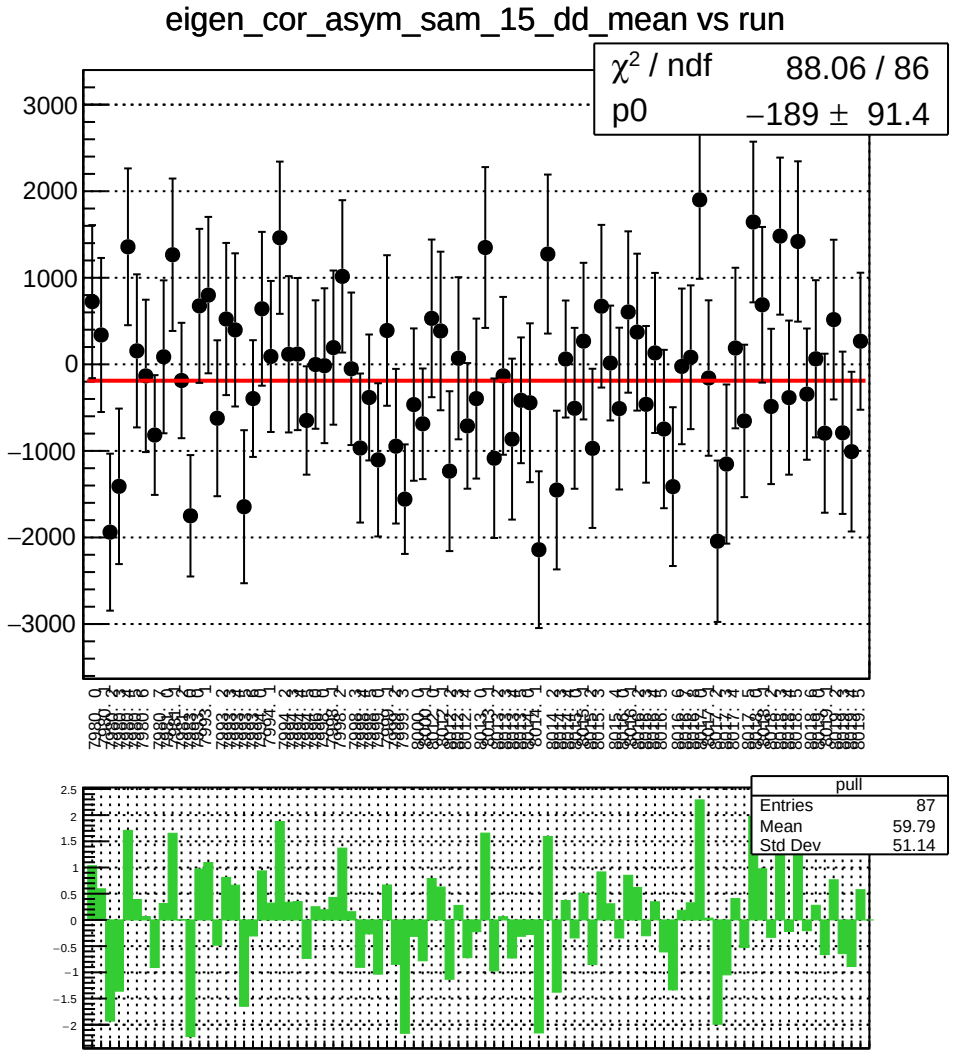

pull1D
Entries 87
Mean 0.02773
Std Dev 1.006

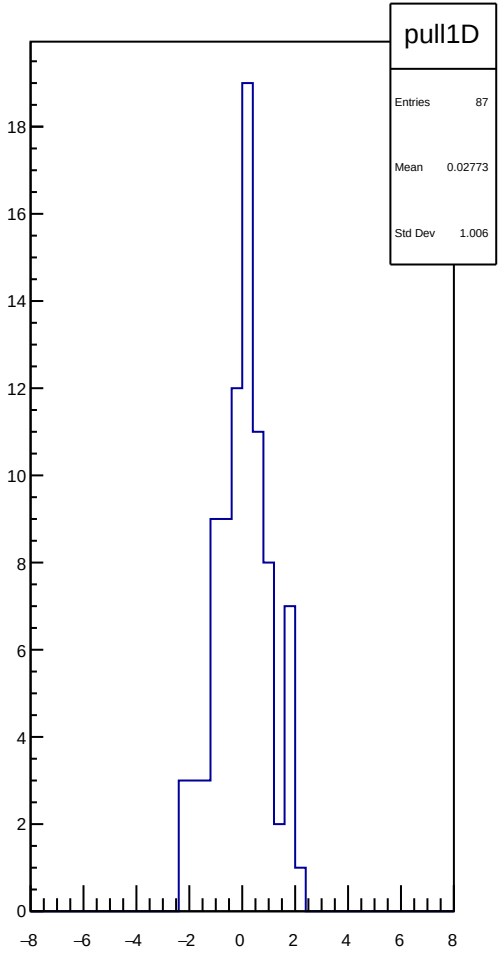

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 865.4 / 86
p0 85.74 ± 0.06463
90
88
86
84
82

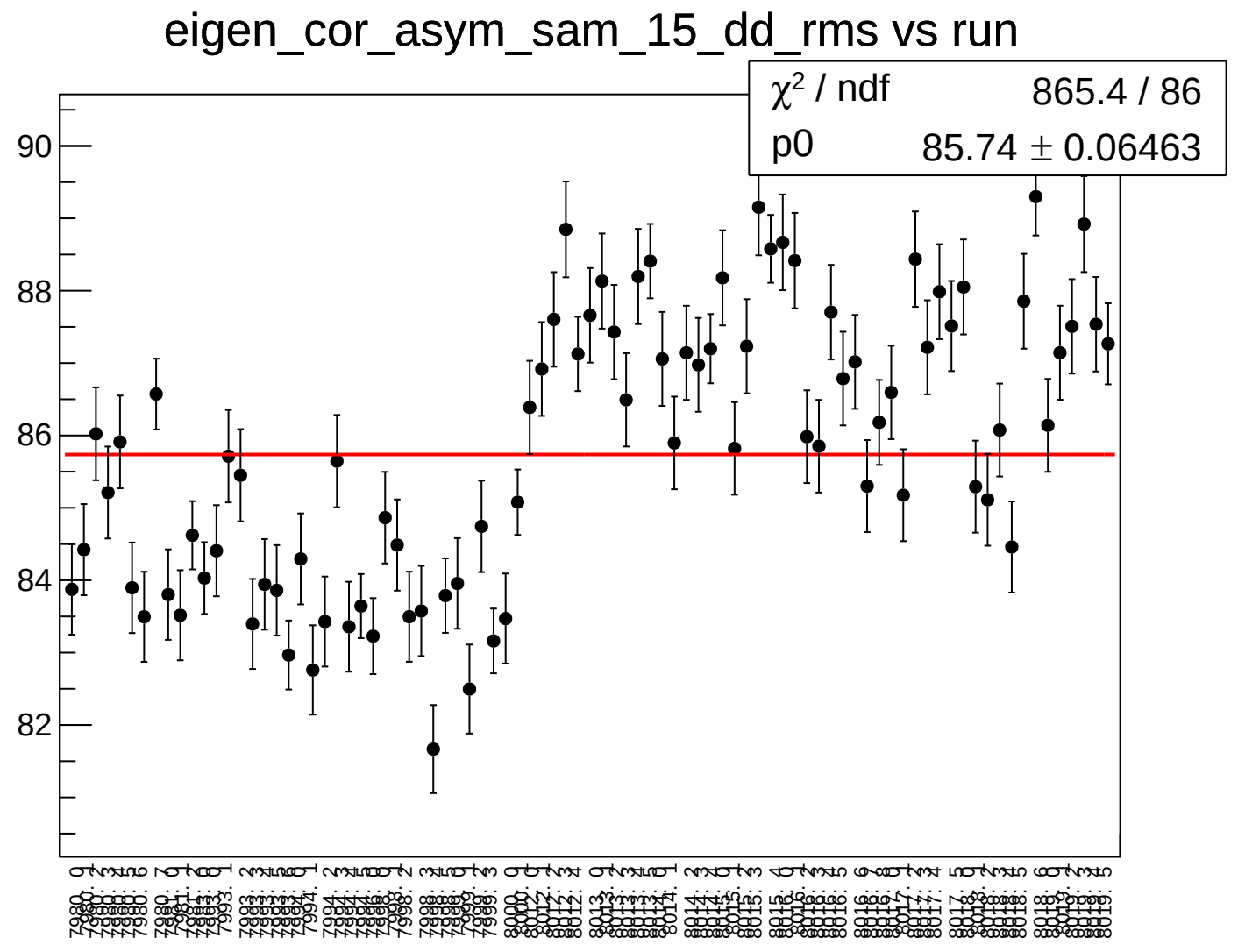

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 78.83 / 86
p0 961.8 ± 634
pull
Entries 87
Mean 33.3
Std Dev 35.28

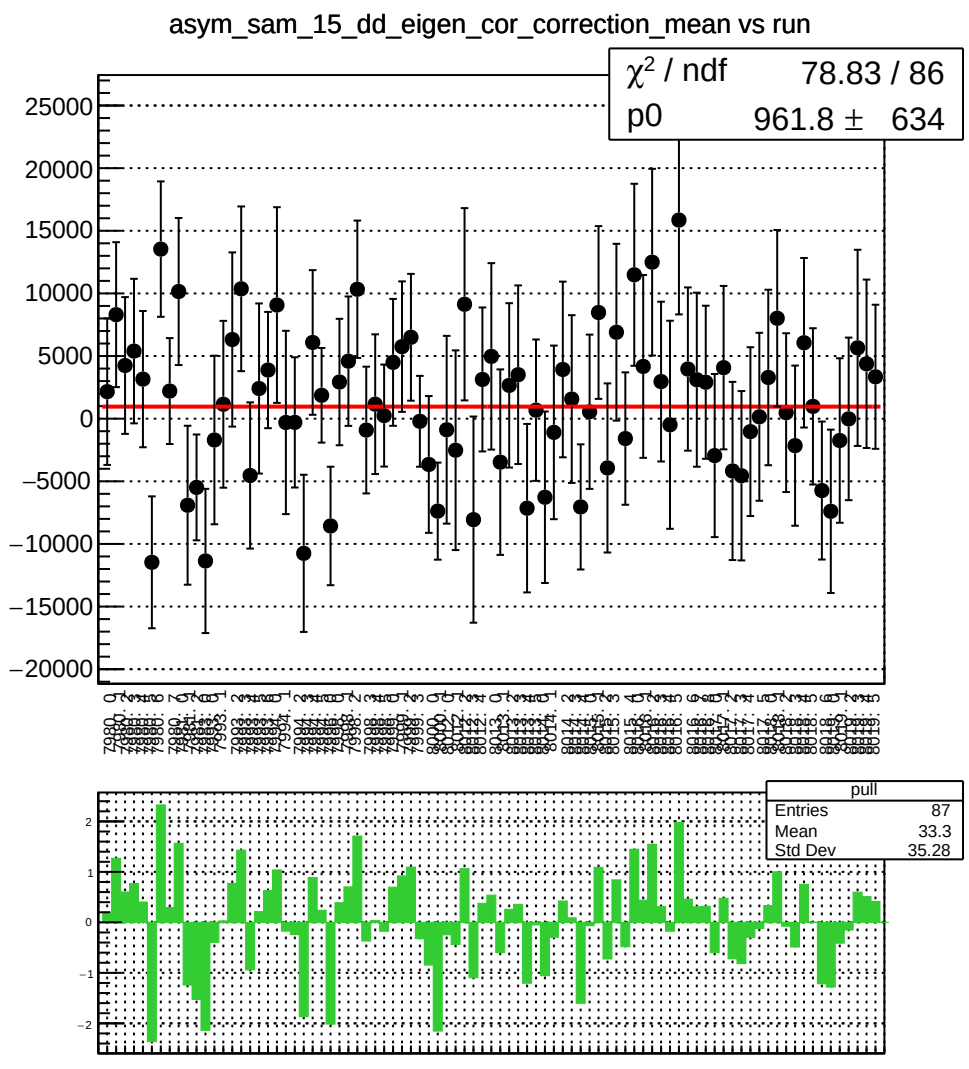

pull1D
Entries 87
Mean 0.03658
Std Dev 0.9512

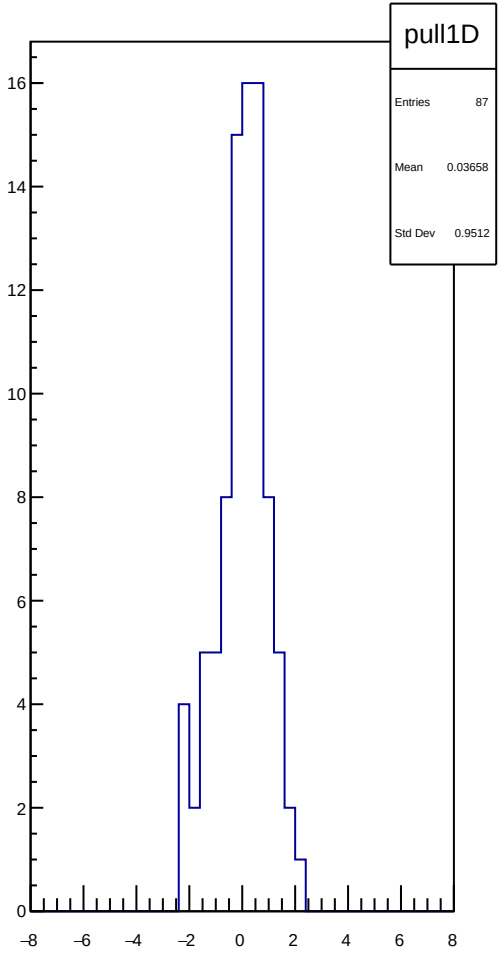

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 3.211e+04 / 86
p0 589.4 ± 0.4483
800
750
700
650
600
550
500
450

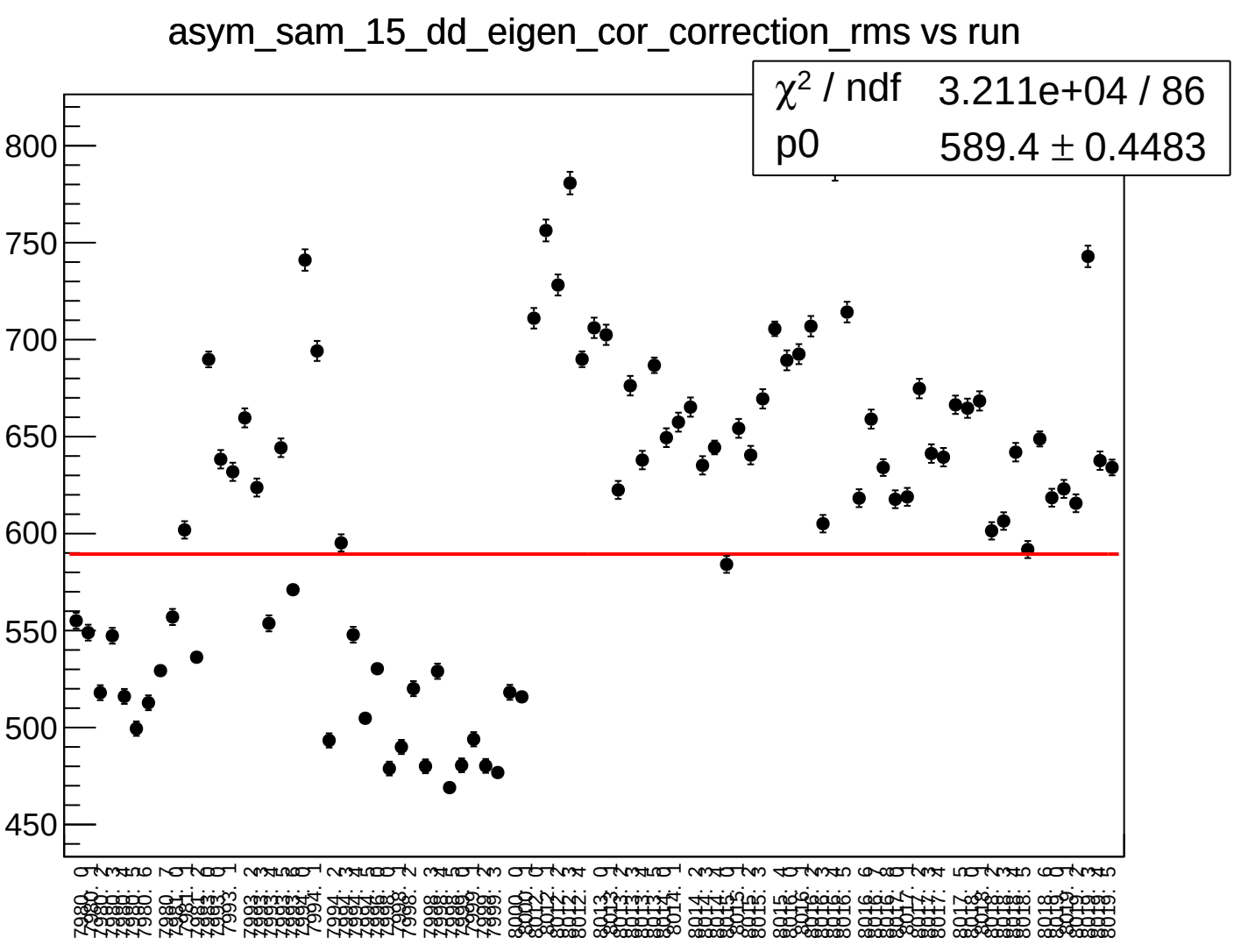

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 88.06 / 86
p0 −189 ± 91.4
pull
Entries 87
Mean 59.79
Std Dev 51.14

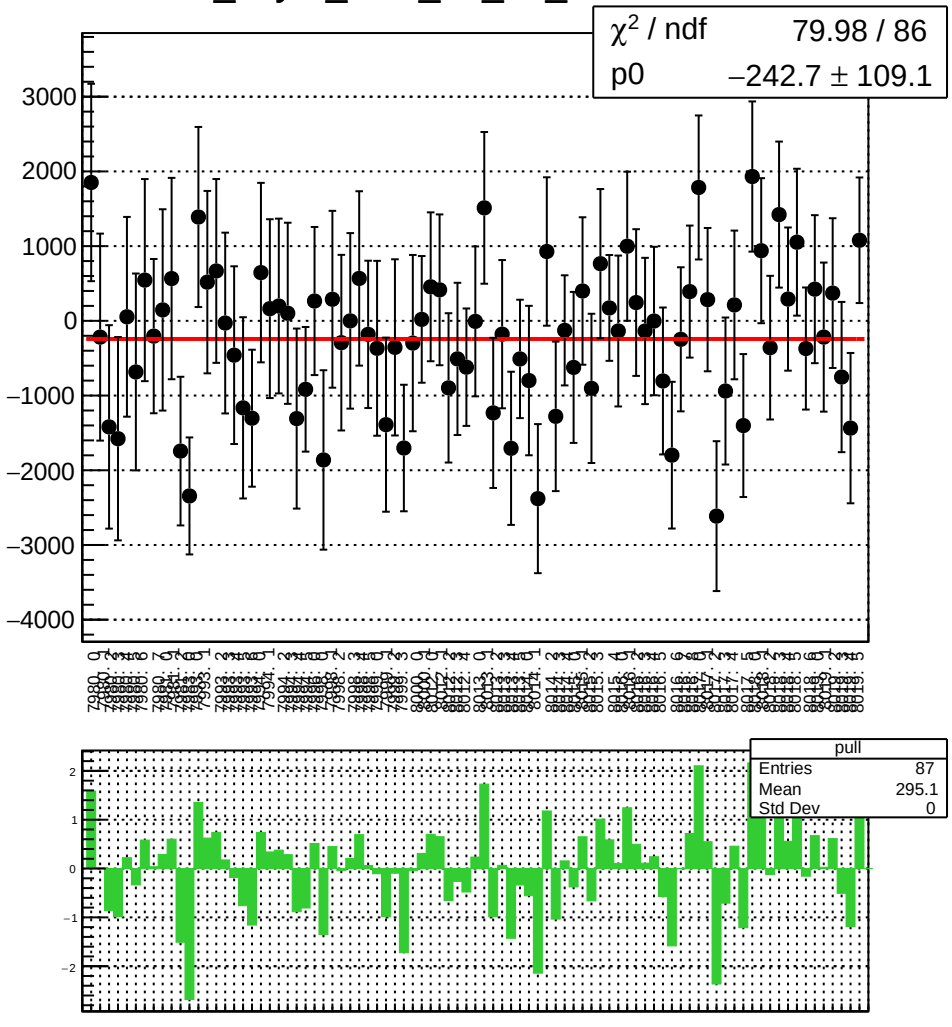

pull1D
Entries 87
Mean 0.02773
Std Dev 1.006

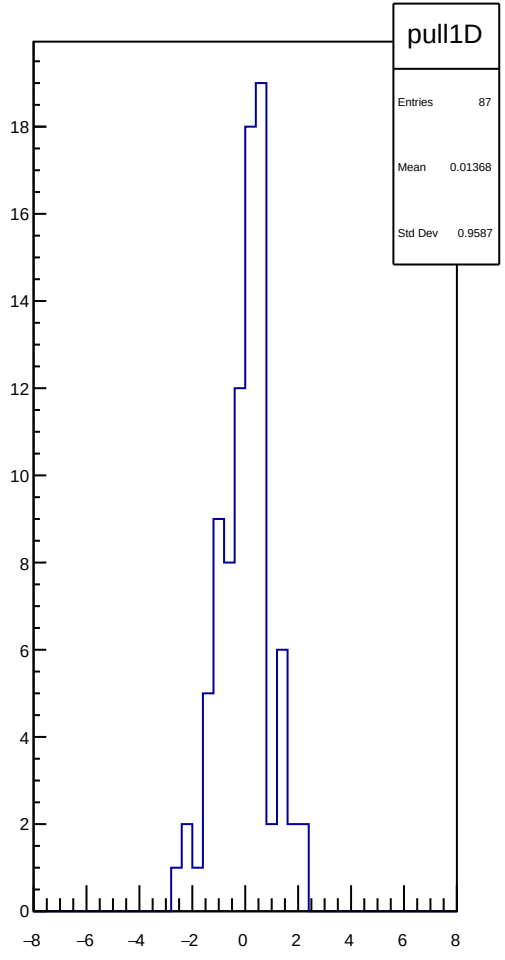

eigen_cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 865.4 / 86
p0 85.74 ± 0.06463
90
88
86
84
82

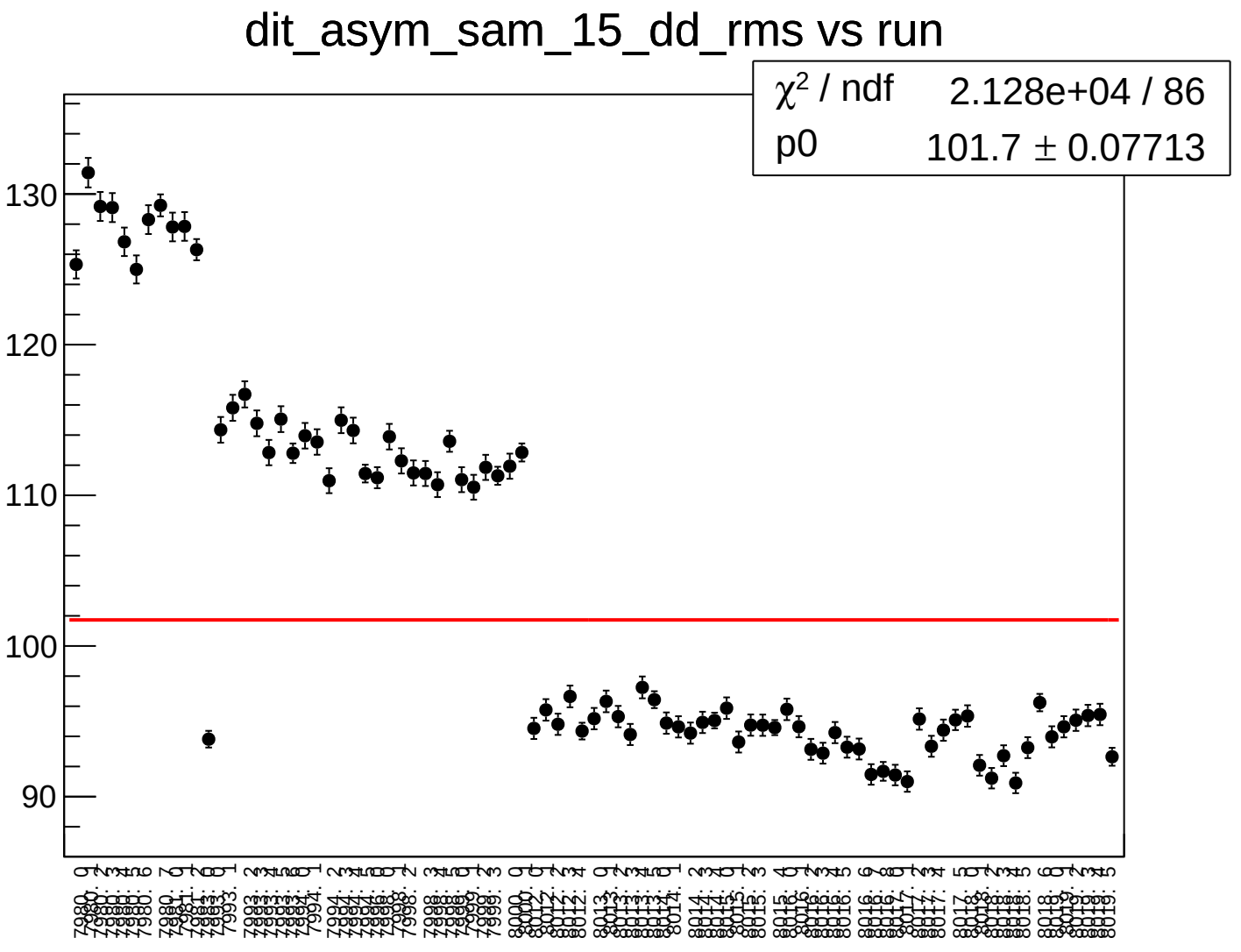

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.83 / 86
p0 961.8 ± 634
pull
Entries 87
Mean 33.3
Std Dev 35.28

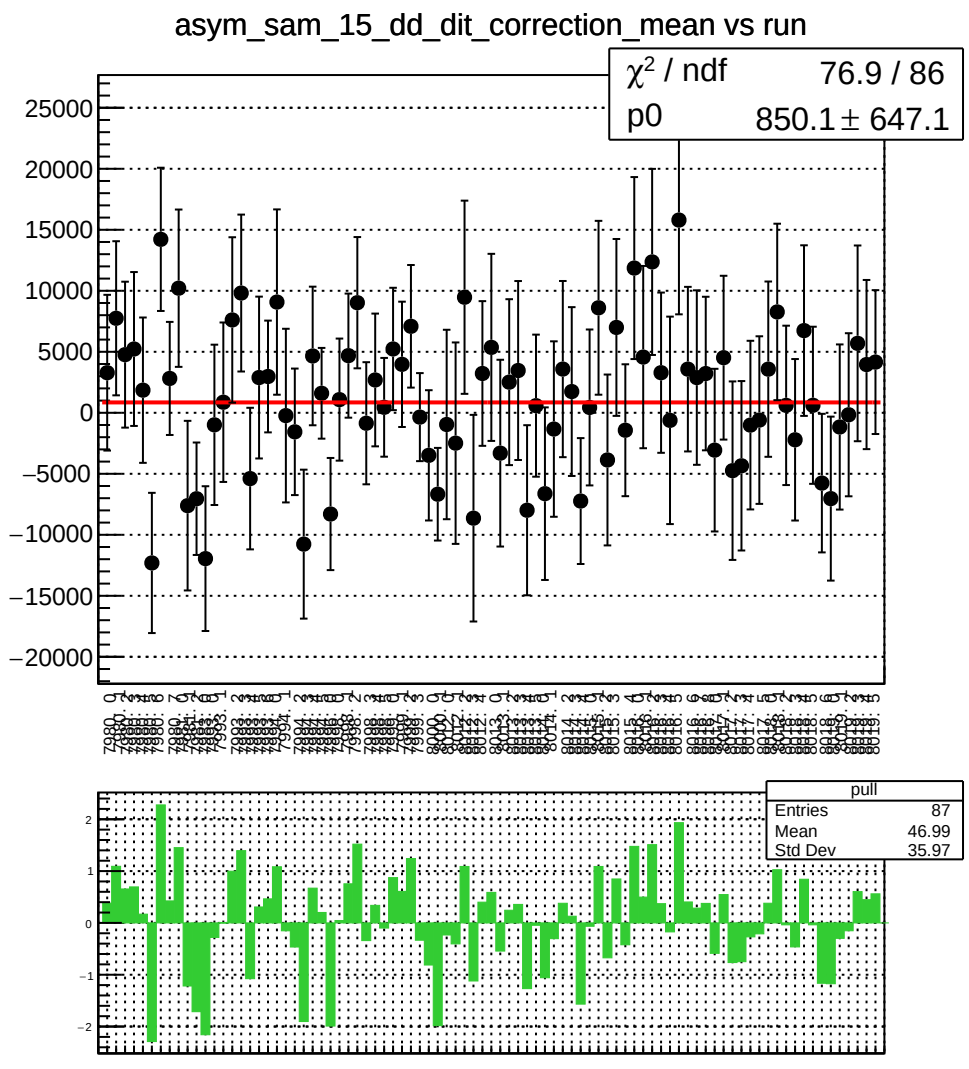

pull1D
Entries 87
Mean 0.03658
Std Dev 0.9512

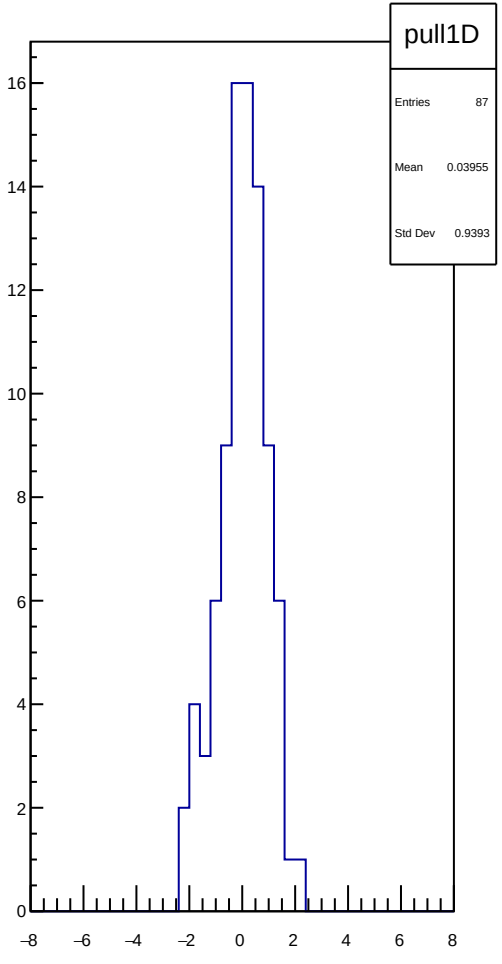

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.211e+04 / 86
p0 589.4 ± 0.4483
800
750
700
650
600
550
500
450

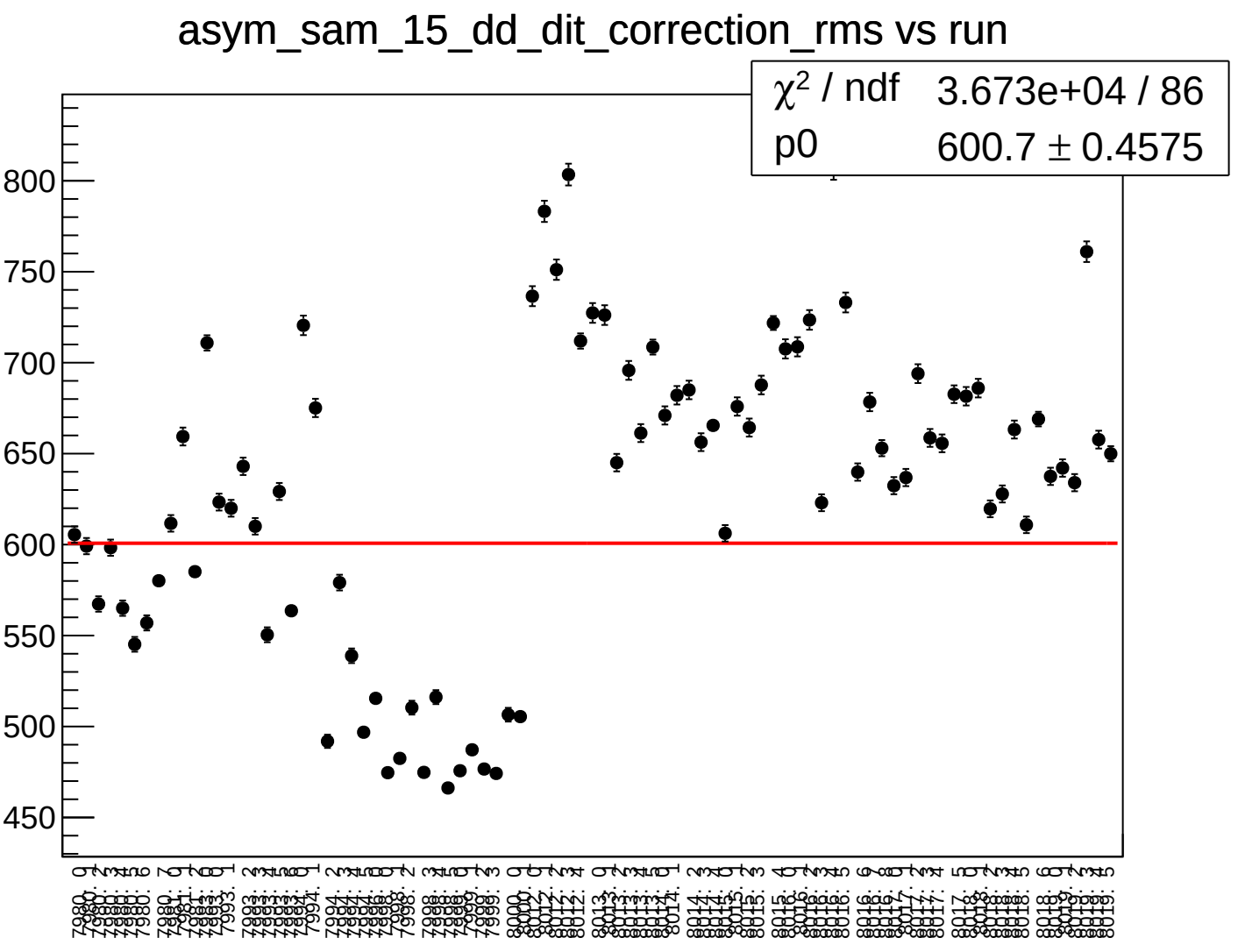

dit_asym_sam_15_dd_mean vs run
χ² / ndf 79.98 / 86
p0 −242.7 ± 109.1
pull
Entries 87
Mean 295.1
Std Dev 0

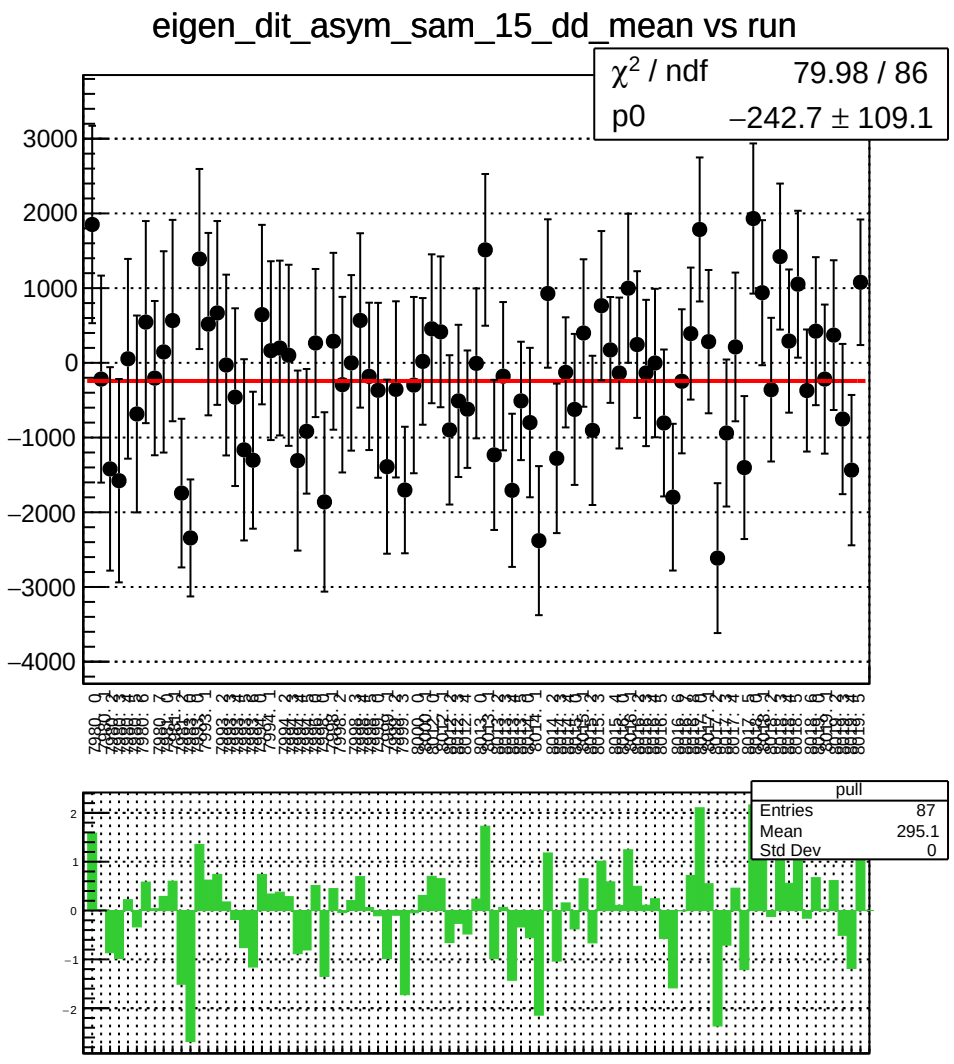

pull1D
Entries 87
Mean 0.01368
Std Dev 0.9587

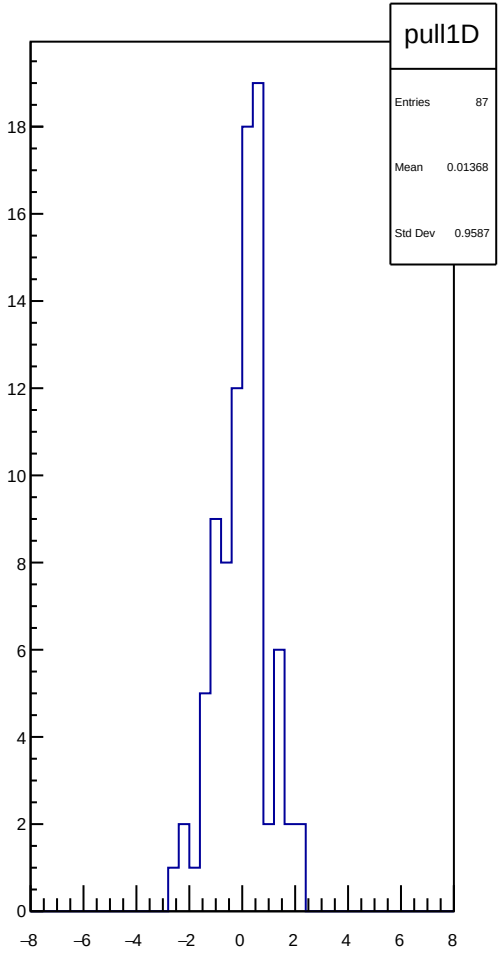

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 2.128e+04 / 86
p0 101.7 ± 0.07713
130
120
110
100
90

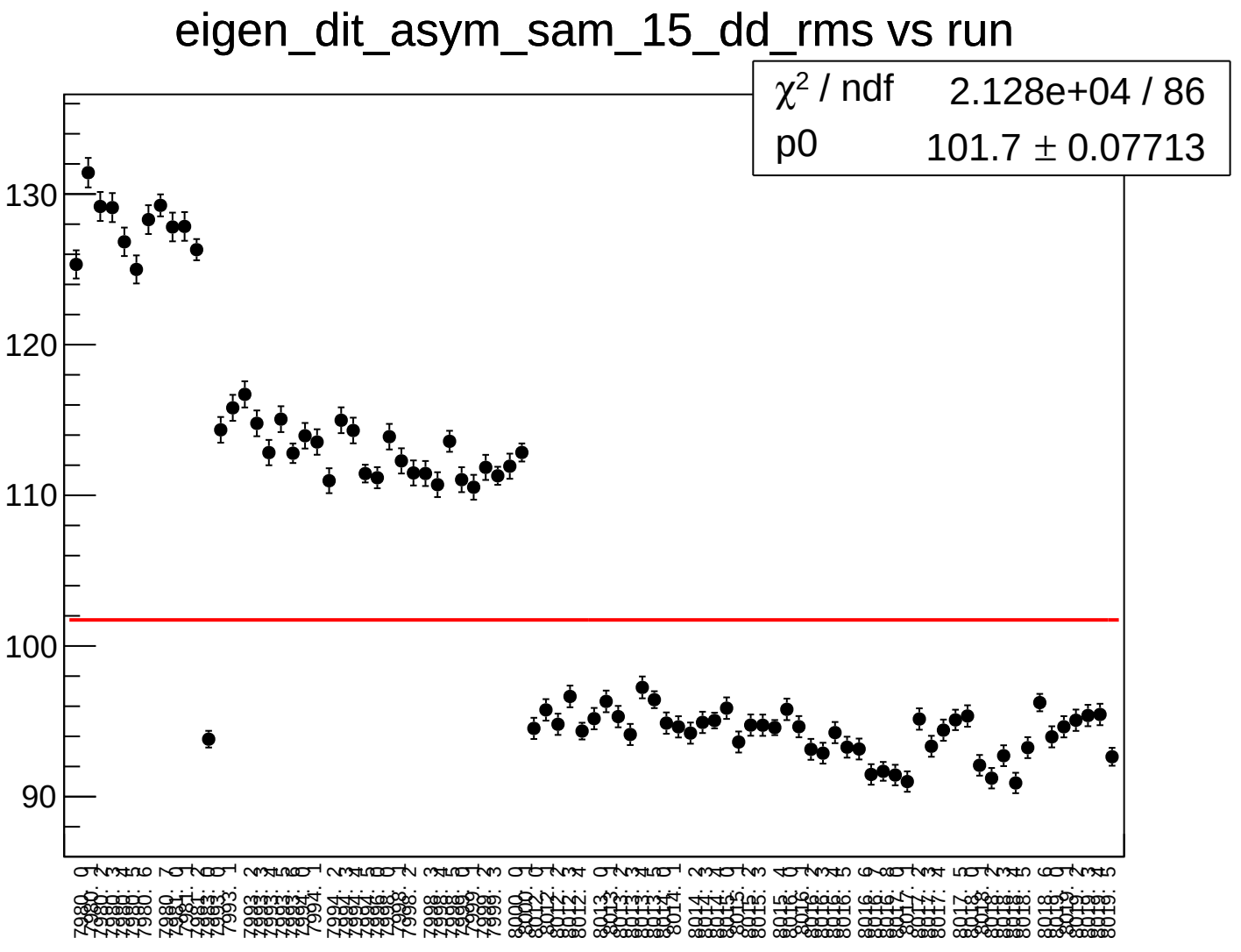

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 76.9 / 86
p0 850.1 ± 647.1
pull
Entries 87
Mean 46.99
Std Dev 35.97

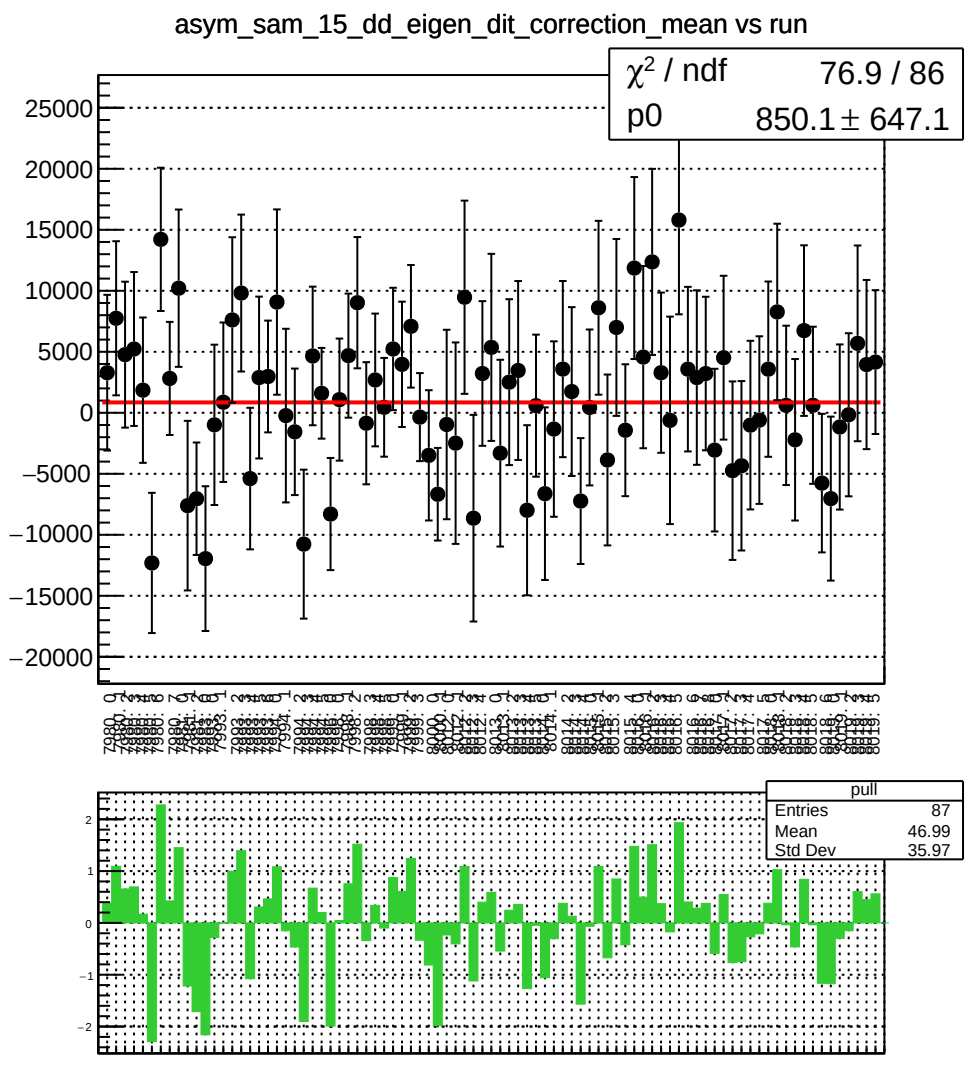

pull1D
Entries 87
Mean 0.03955
Std Dev 0.9393

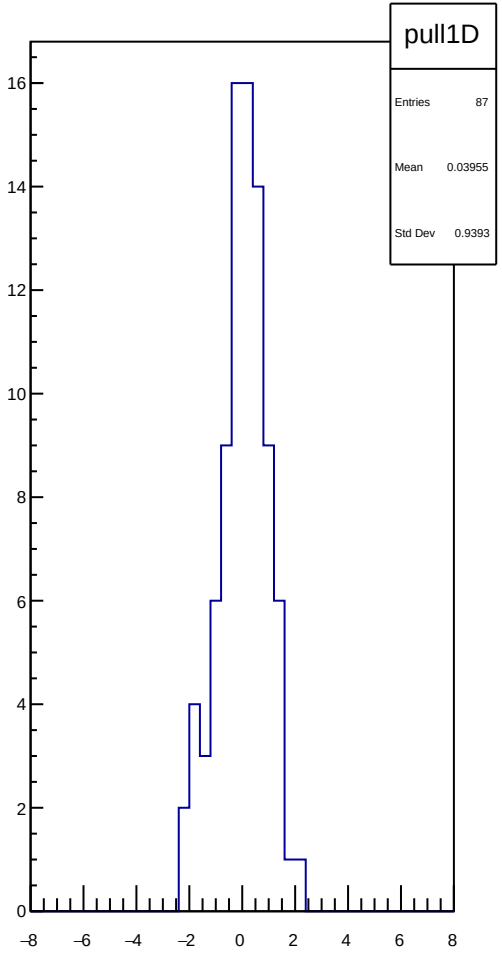

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 3.673e+04 / 86
p0 600.7 ± 0.4575
800
750
700
650
600
550
500
450

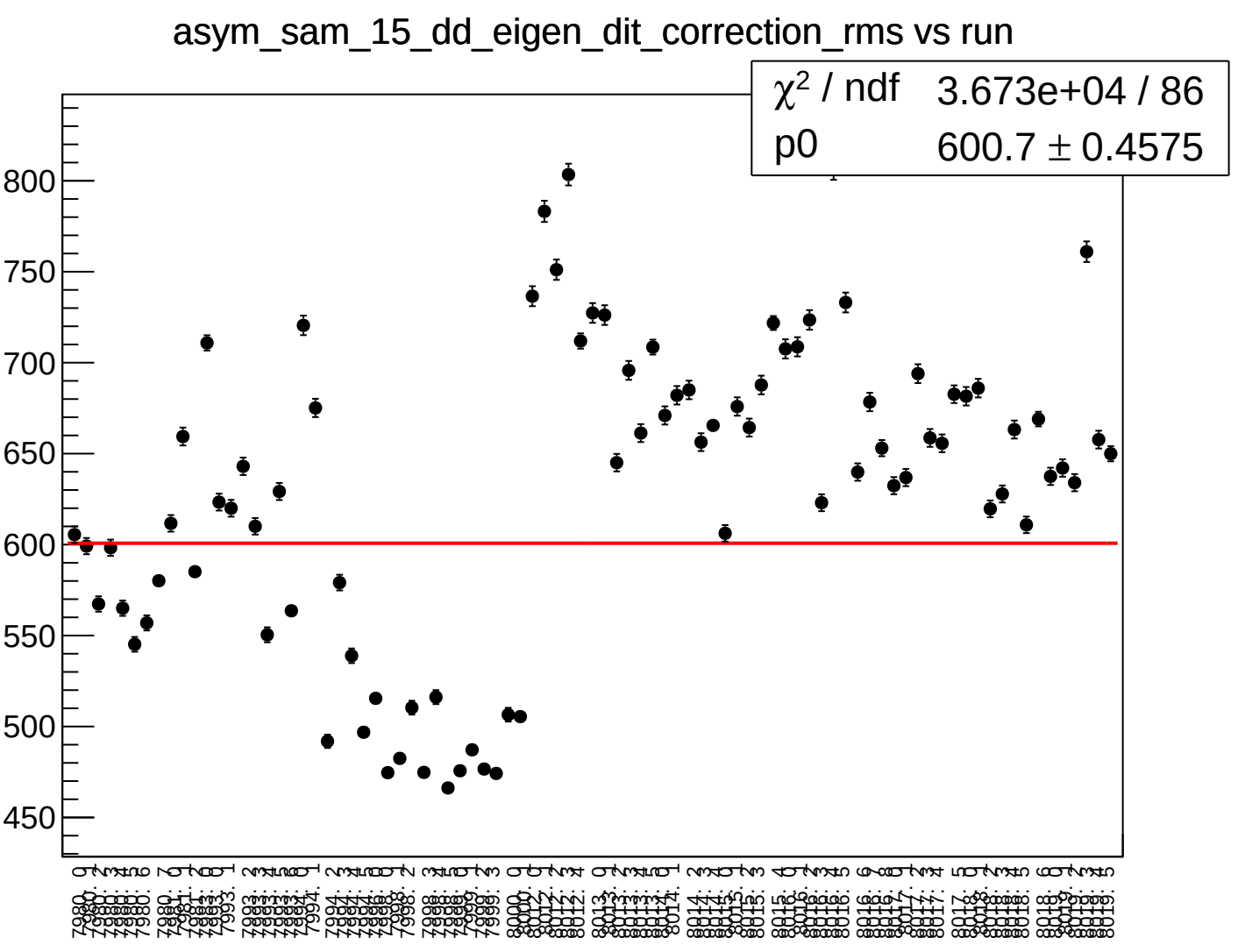

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 79.98 / 86
p0 −242.7 ± 109.1
pull
Entries 87
Mean 295.1
Std Dev 0

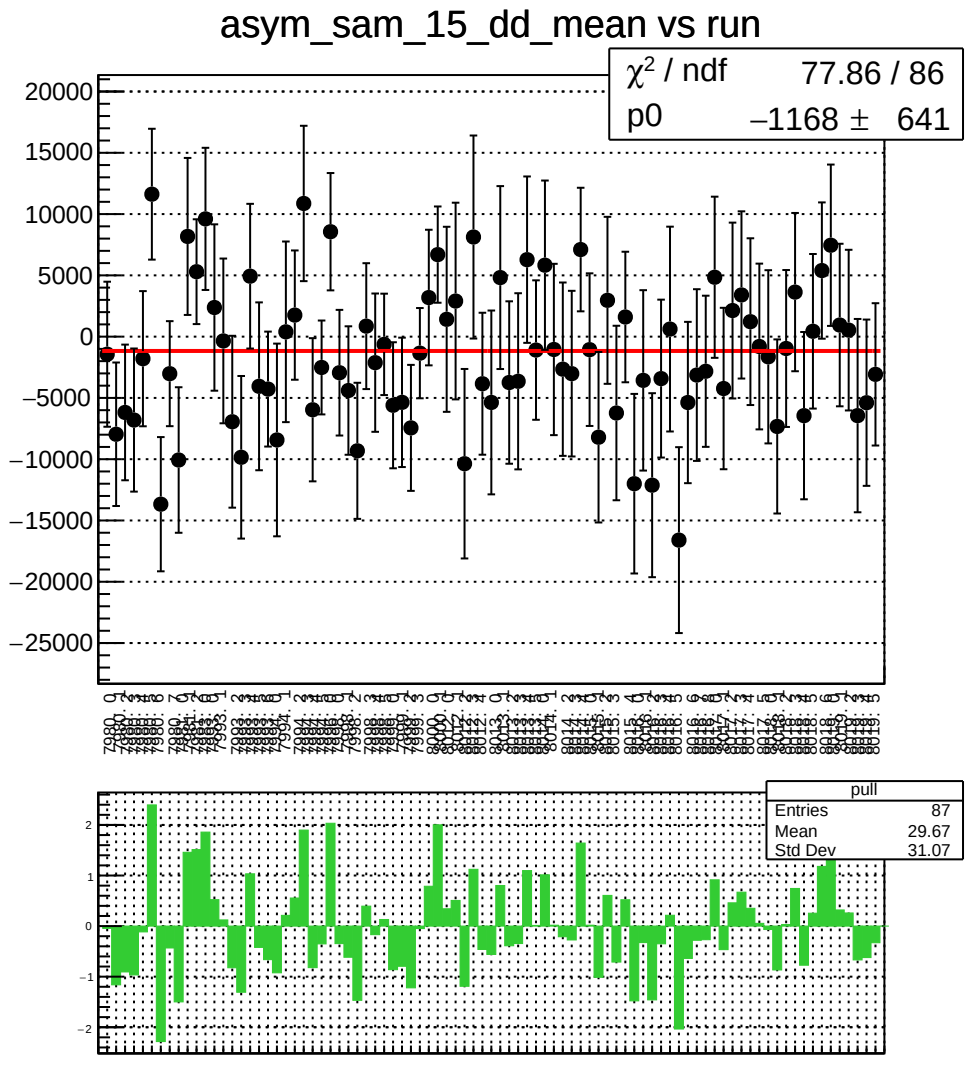

pull1D
Entries 87
Mean 0.01368
Std Dev 0.9587

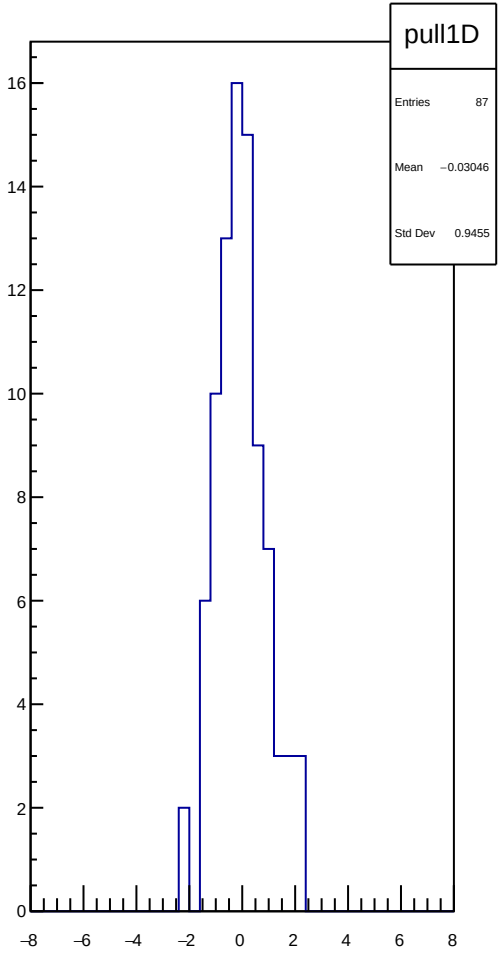

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 2.128e+04 / 86
p0 101.7 ± 0.07713
130
120
110
100
90

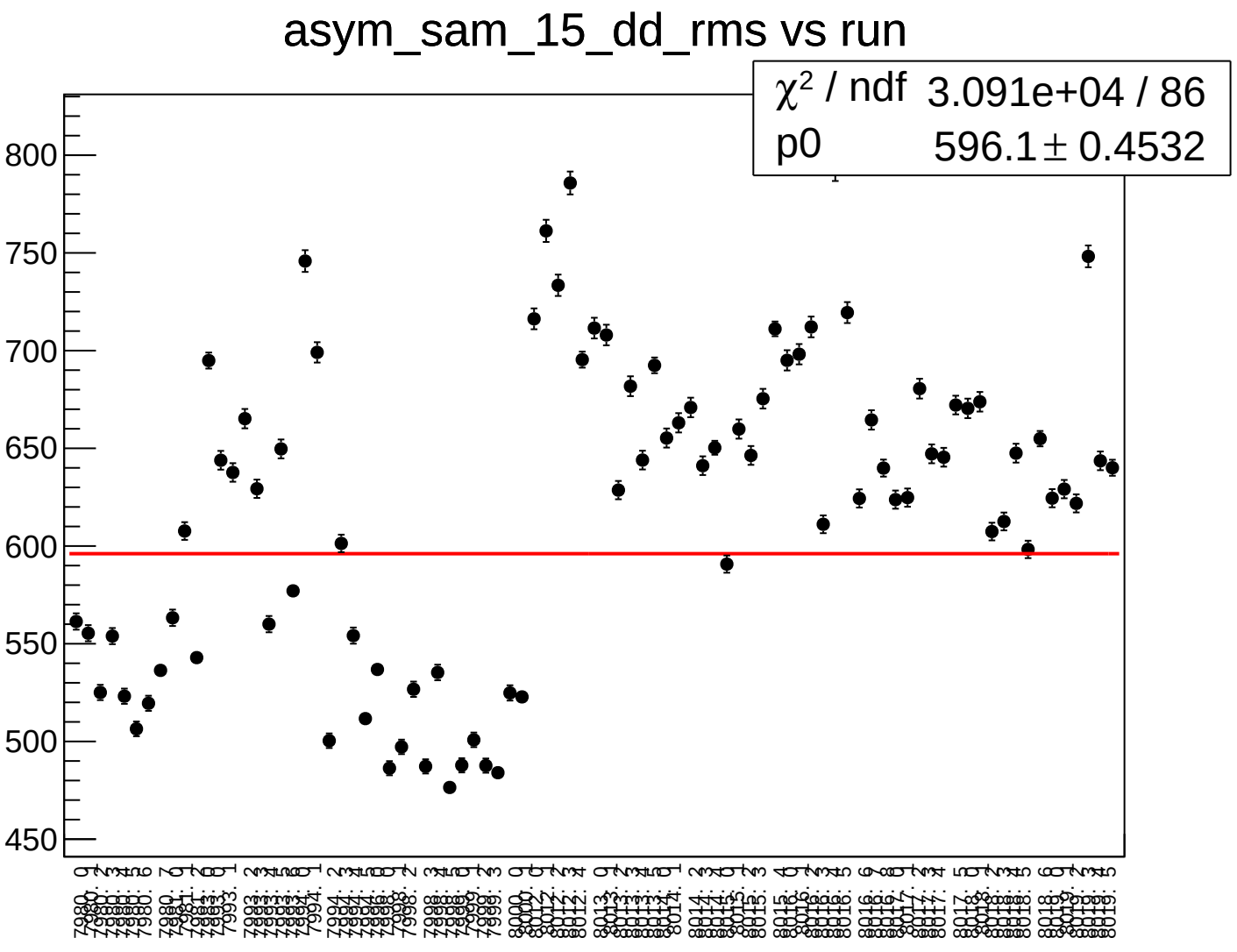

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.9 / 86
p0 850.1 ± 647.1
pull
Entries 87
Mean 46.99
Std Dev 35.97

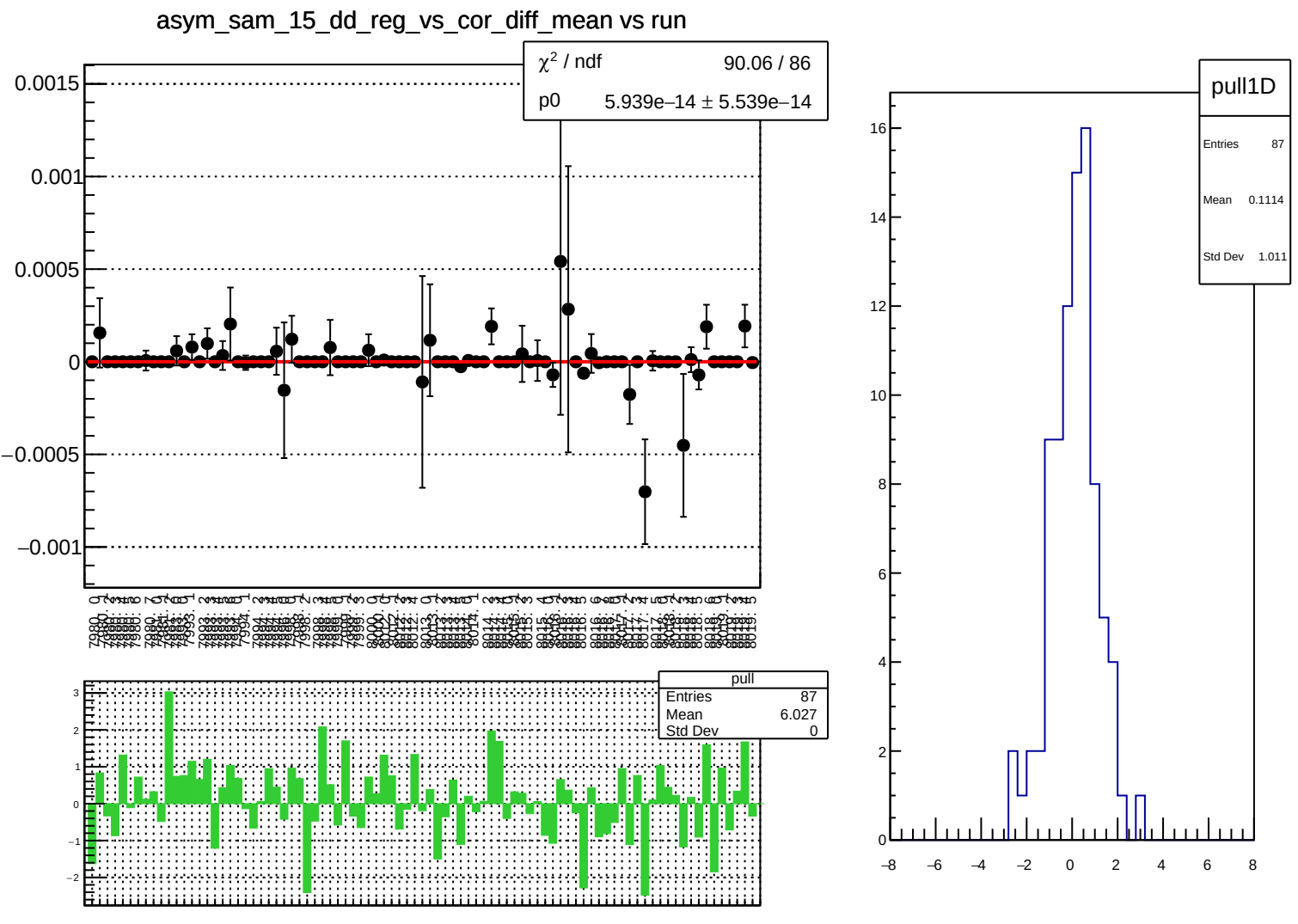

pull1D
Entries 87
Mean 0.03955
Std Dev 0.9393

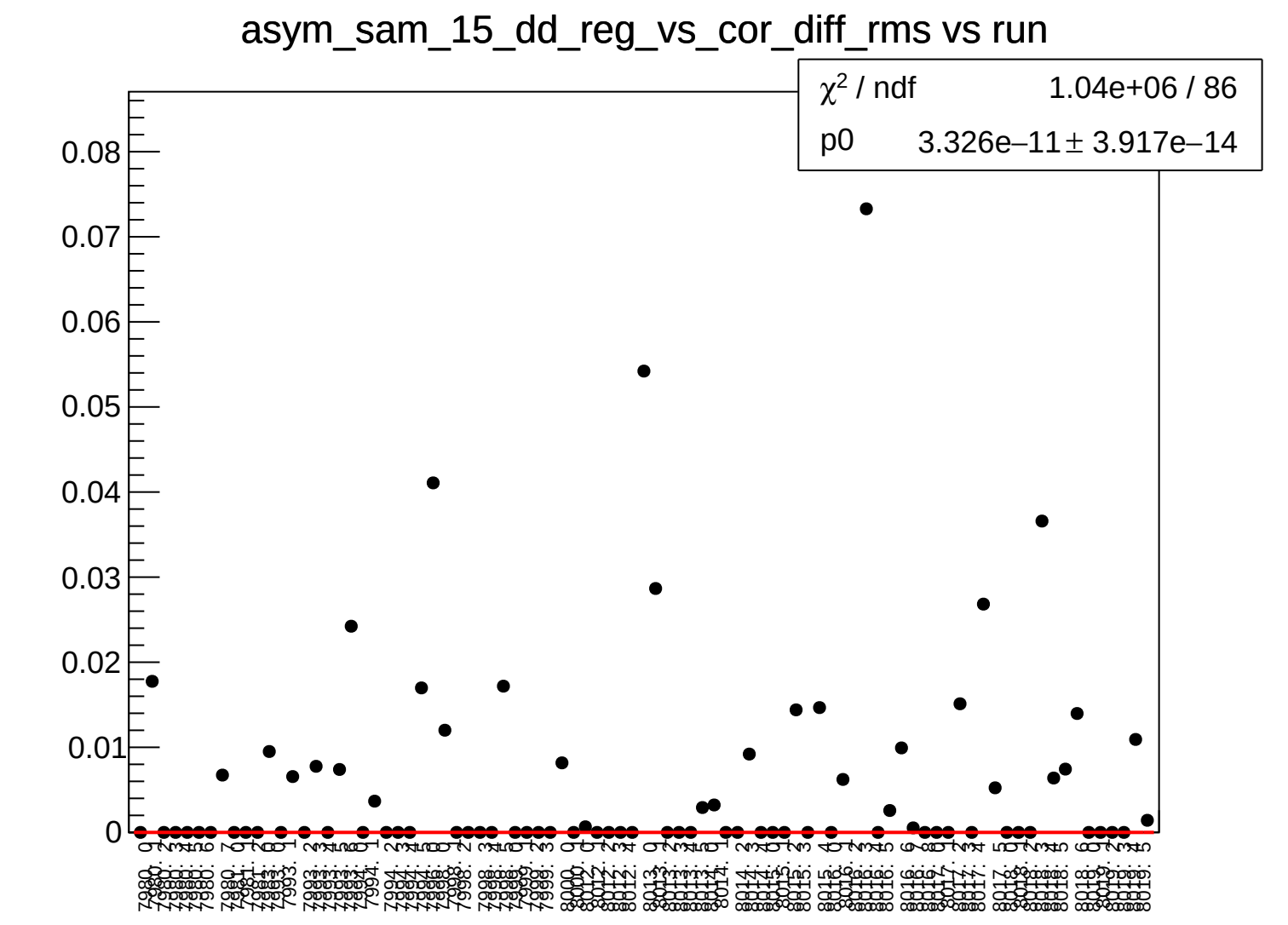

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.673e+04 / 86
p0 600.7 ± 0.4575
800
750
700
650
600
550
500
450

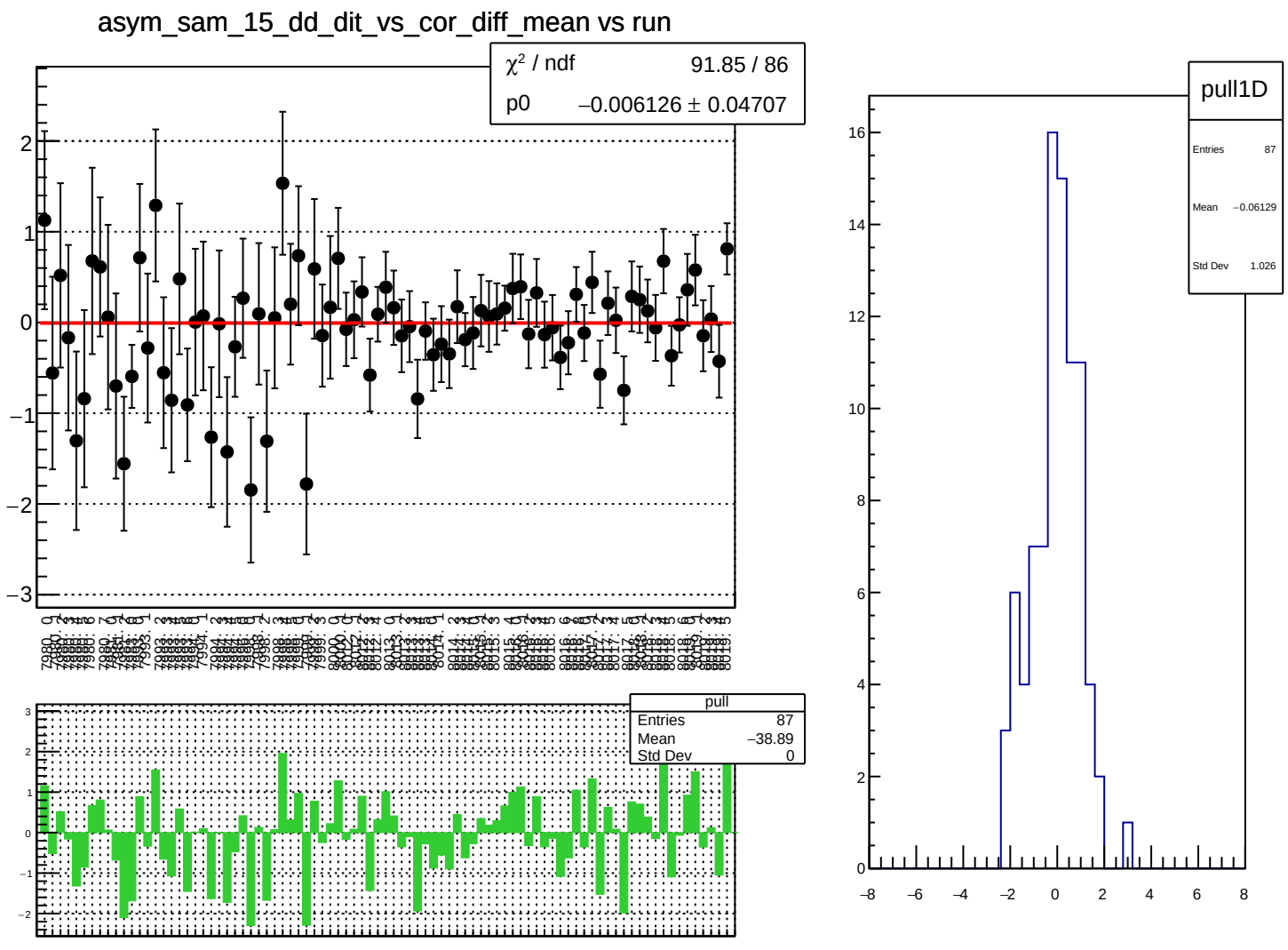

asym_sam_15_dd_mean vs run
χ² / ndf 77.86 / 86
p0 −1168 ± 641
pull
Entries 87
Mean 29.67
Std Dev 31.07

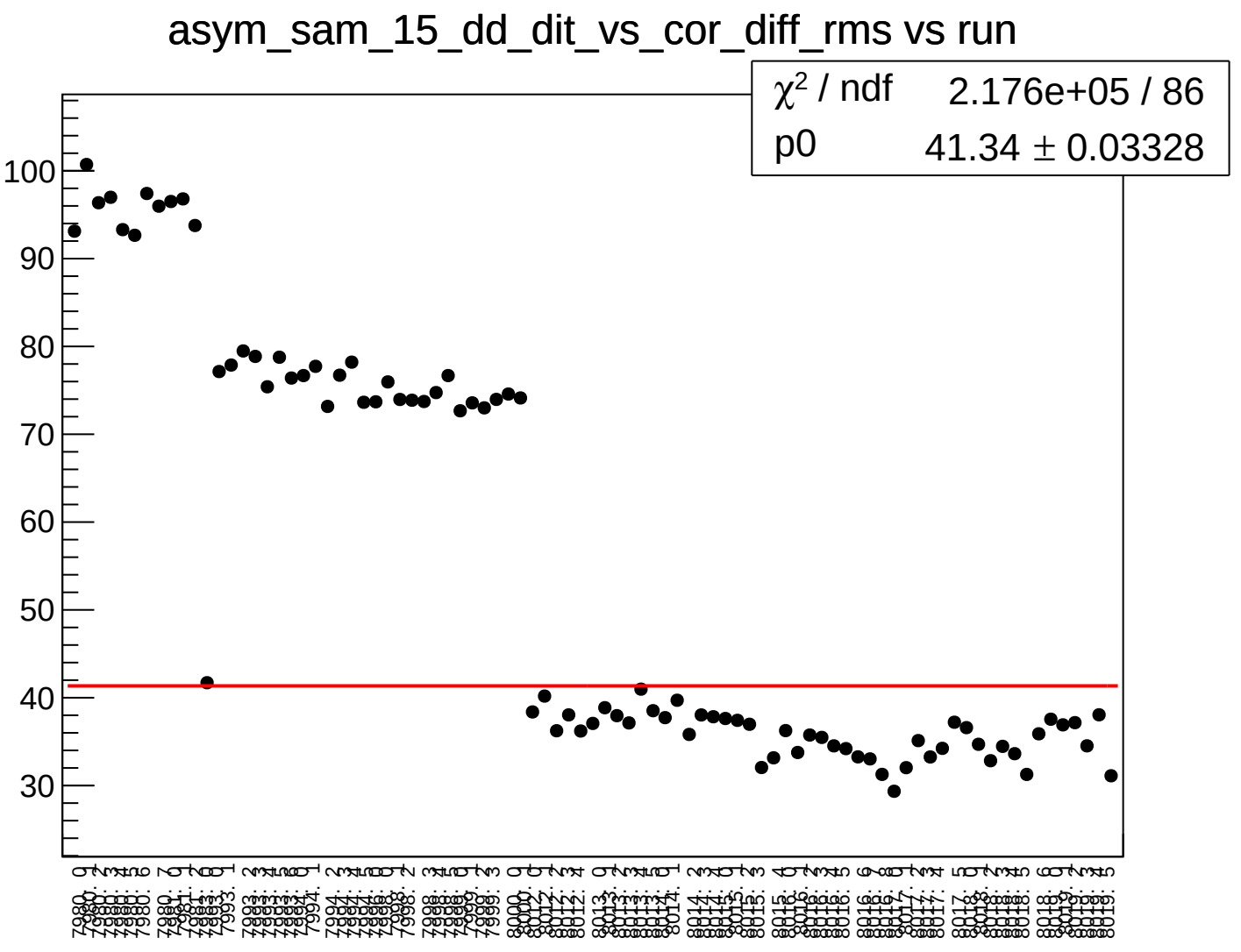

pull1D
Entries 87
Mean −0.03046
Std Dev 0.9455

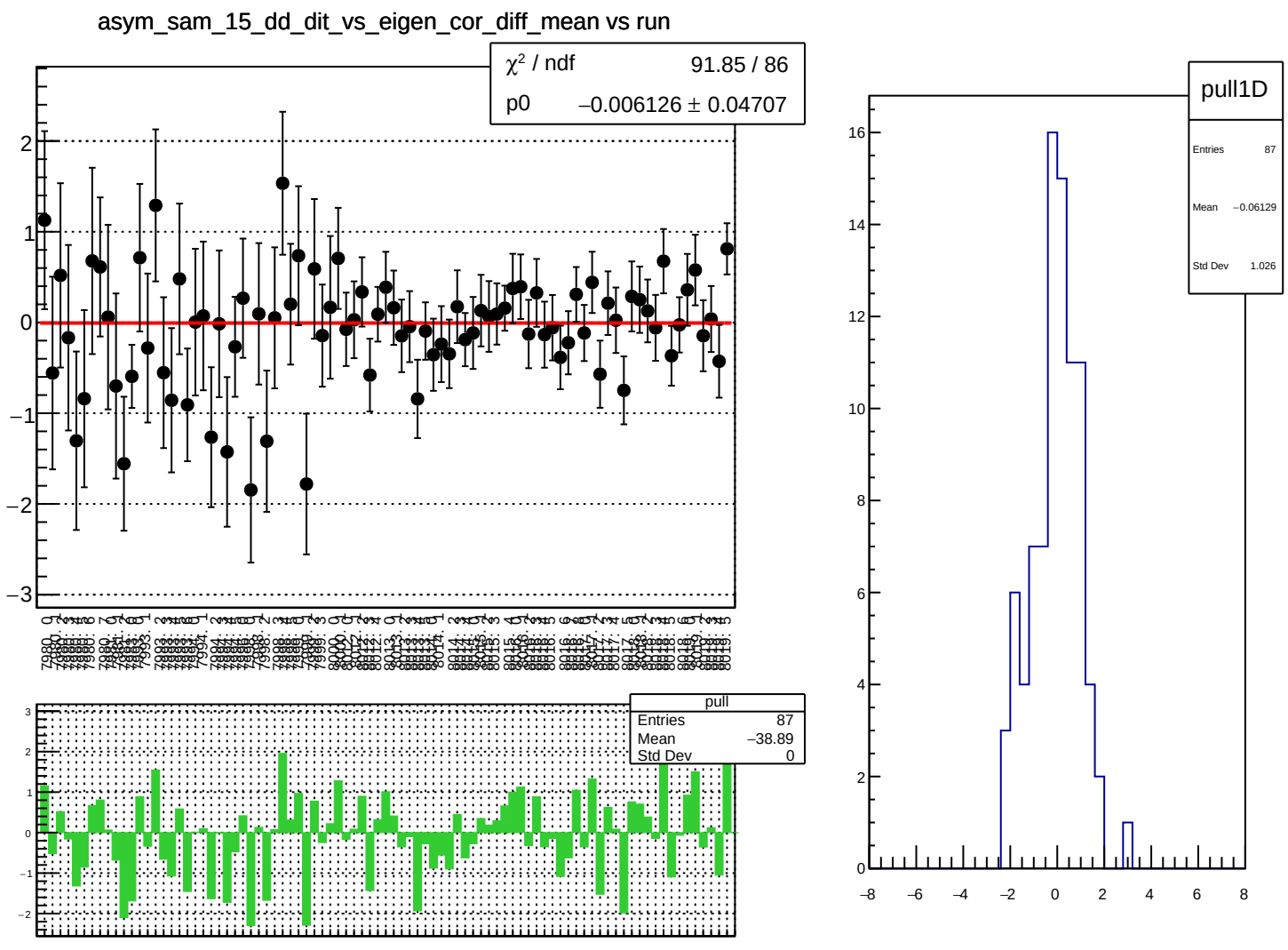

asym_sam_15_dd_rms vs run
χ² / ndf 3.091e+04 / 86
p0 596.1 ± 0.4532
800
750
700
650
600
550
500
450

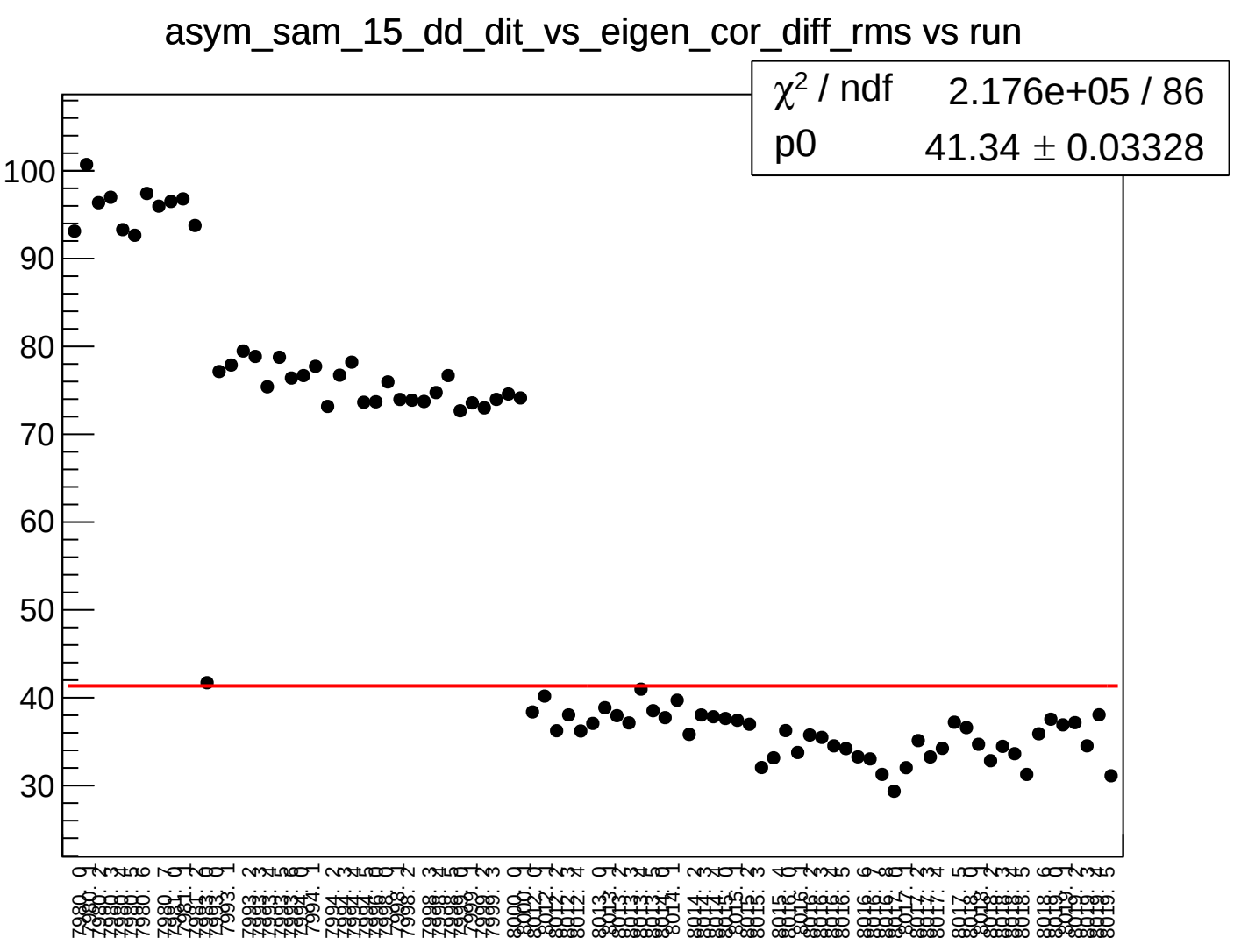

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.06 / 86
p0 5.939e−14 ± 5.539e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean 6.027
Std Dev 0
pull1D
Entries 87
Mean 0.1114
Std Dev 1.011

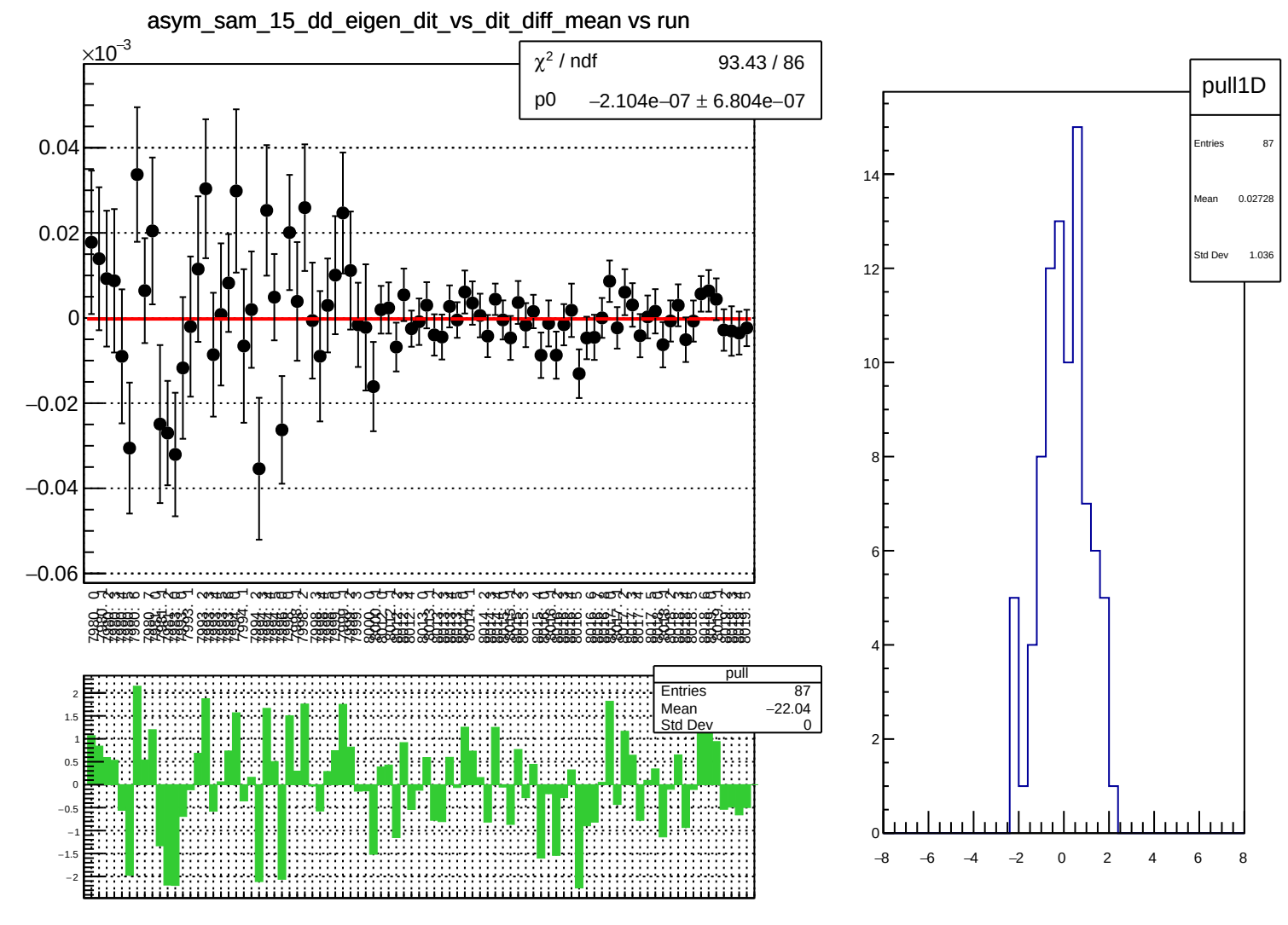

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.04e+06 / 86
p0 3.326e−11 ± 3.917e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

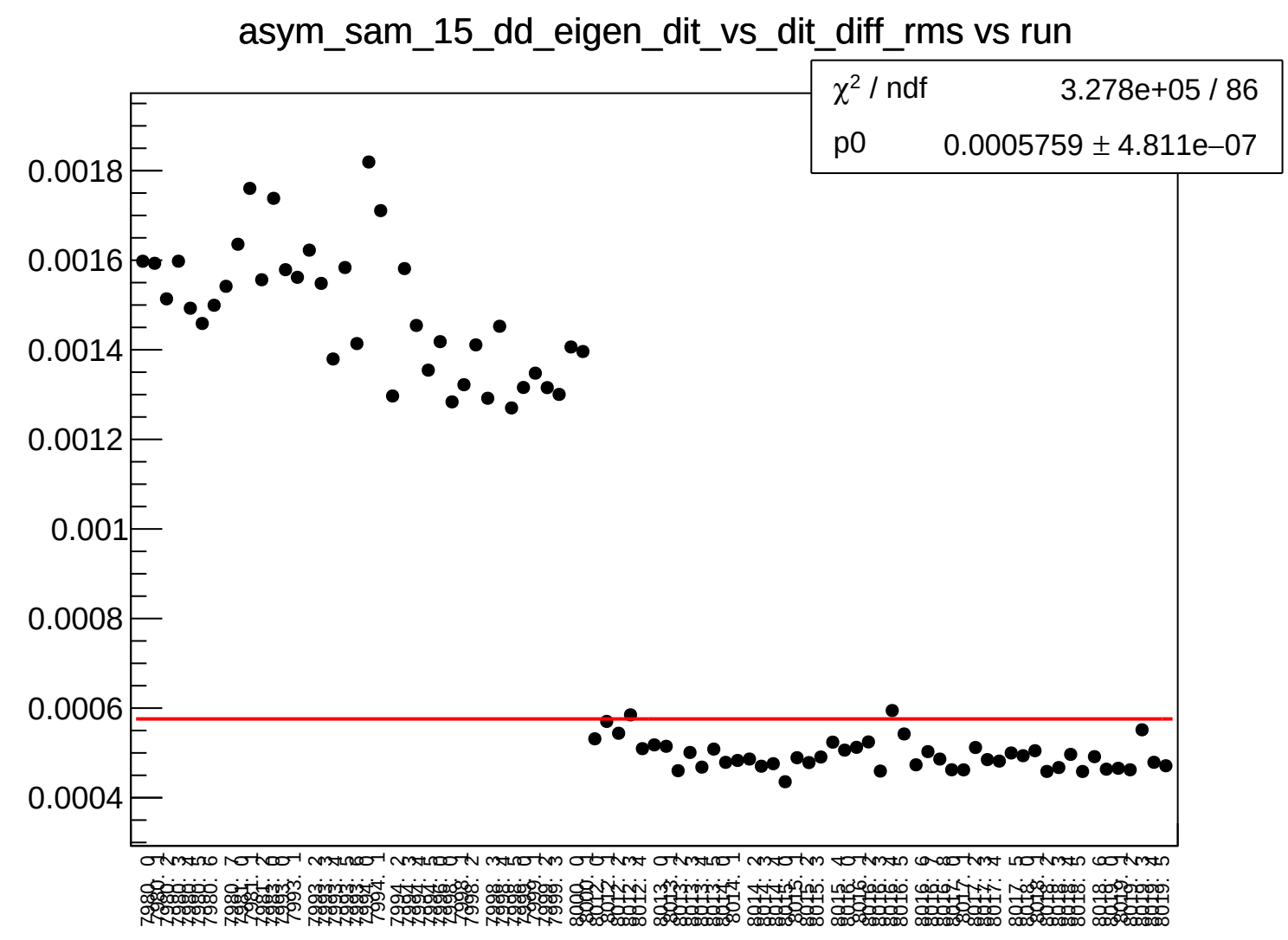

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.85 / 86
p0 −0.006126 ± 0.04707
pull
Entries 87
Mean −38.89
Std Dev 0
pull1D
Entries 87
Mean −0.06129
Std Dev 1.026

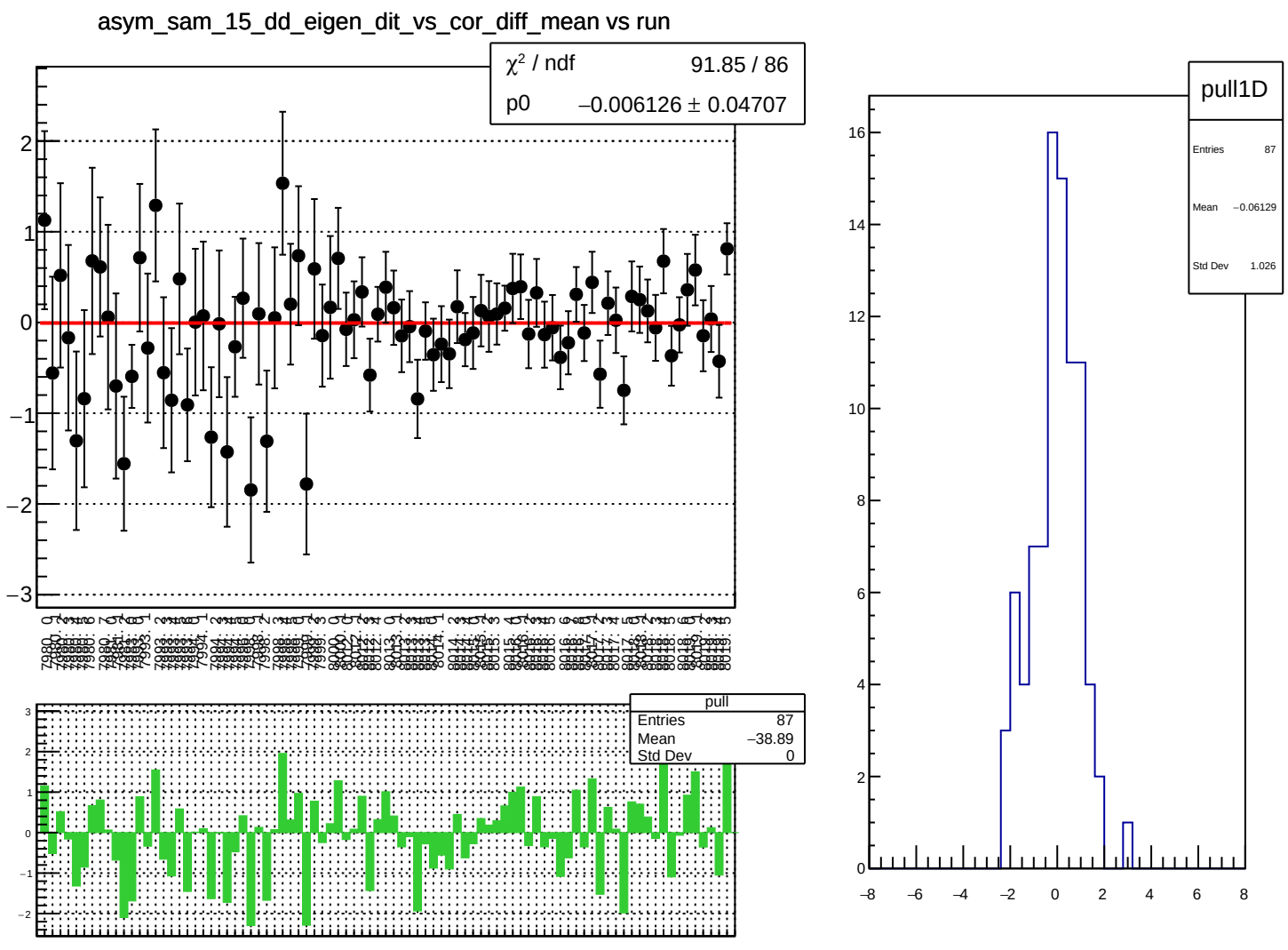

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.176e+05 / 86
p0 41.34 ± 0.03328
100
90
80
70
60
50
40
30

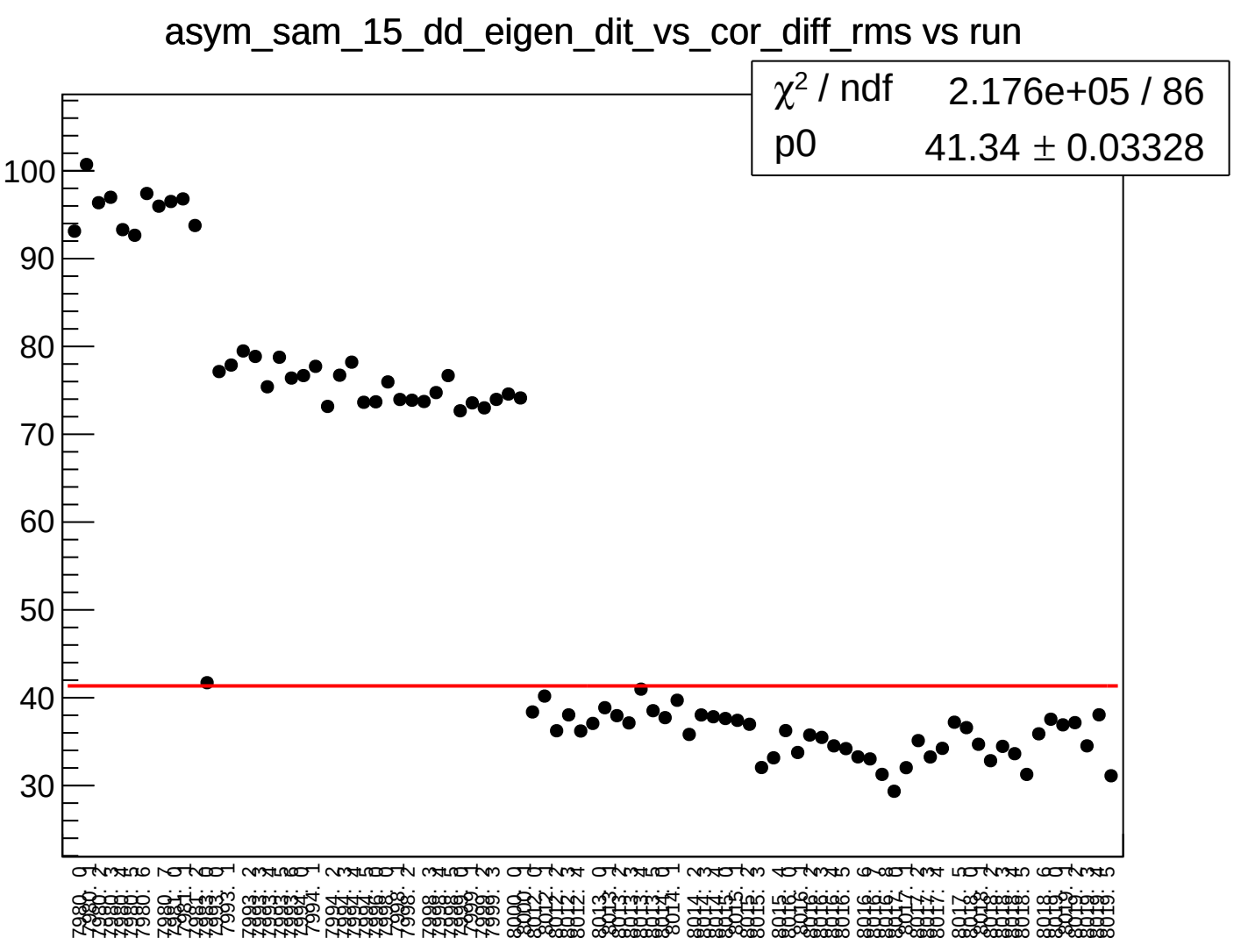

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.85 / 86
p0 −0.006126 ± 0.04707
pull
Entries 87
Mean −38.89
Std Dev 0
pull1D
Entries 87
Mean −0.06129
Std Dev 1.026

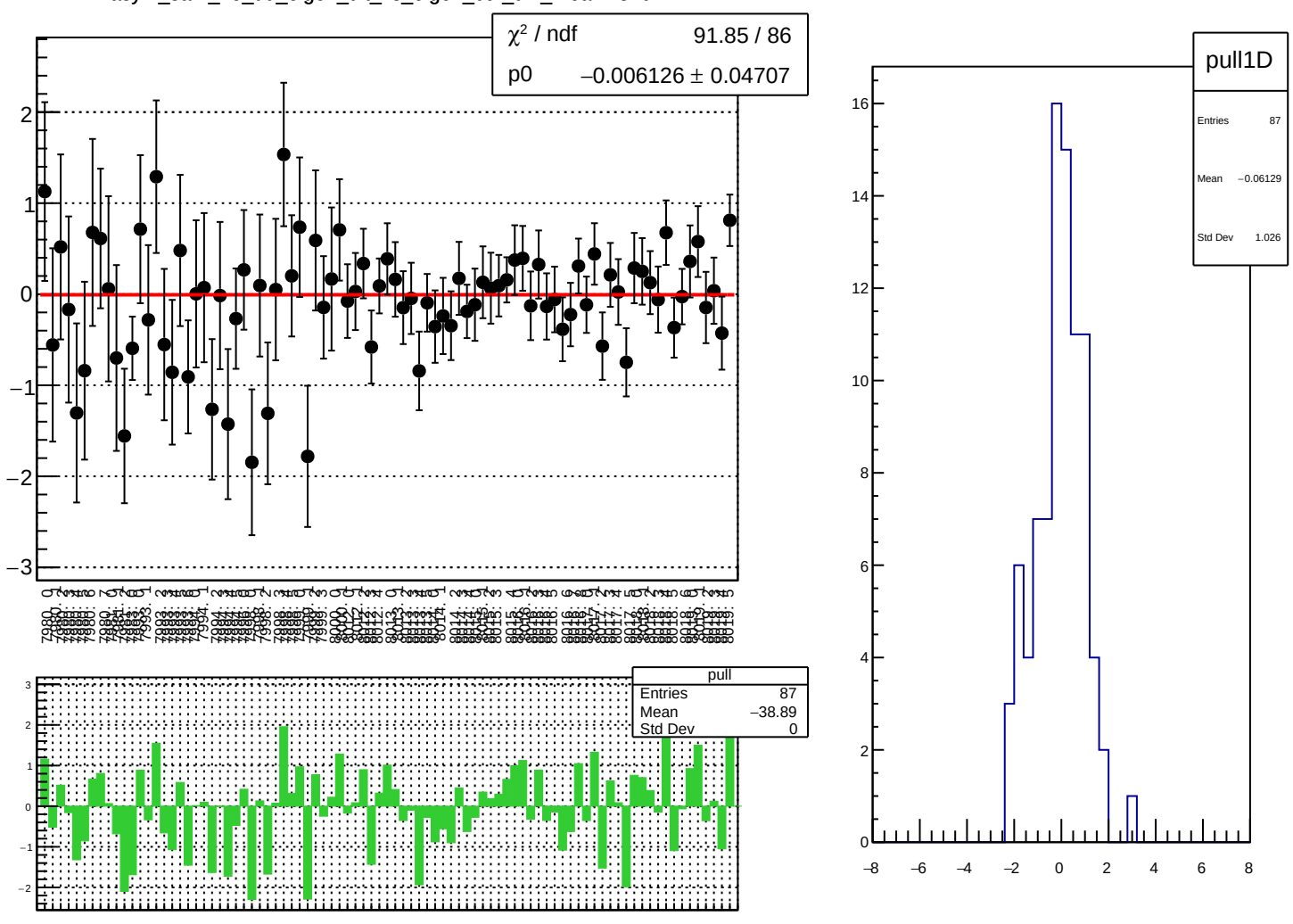

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.176e+05 / 86
p0 41.34 ± 0.03328
100
90
80
70
60
50
40
30

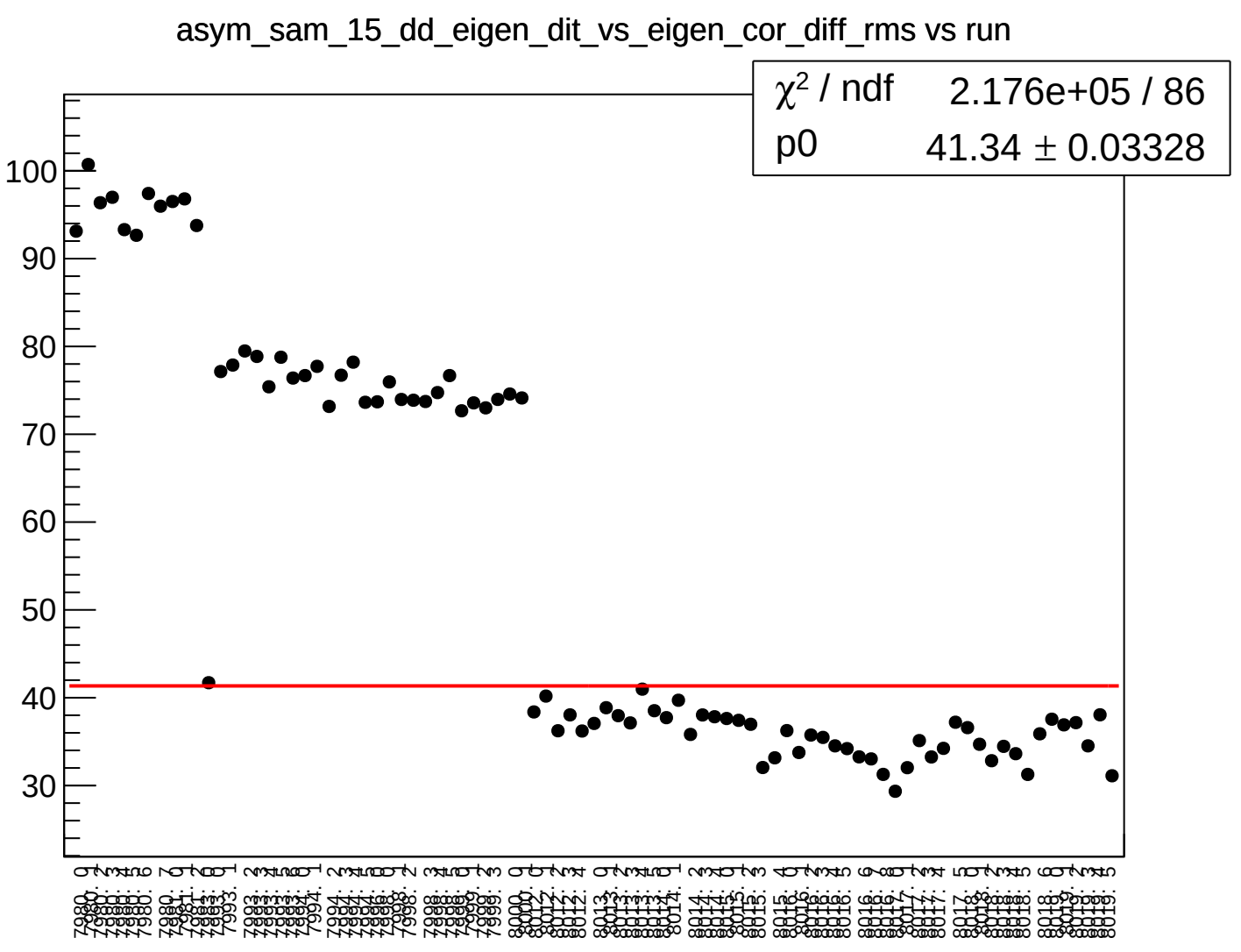

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.43 / 86
p0 −2.104e−07 ± 6.804e−07
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean −22.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean 0.02728
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

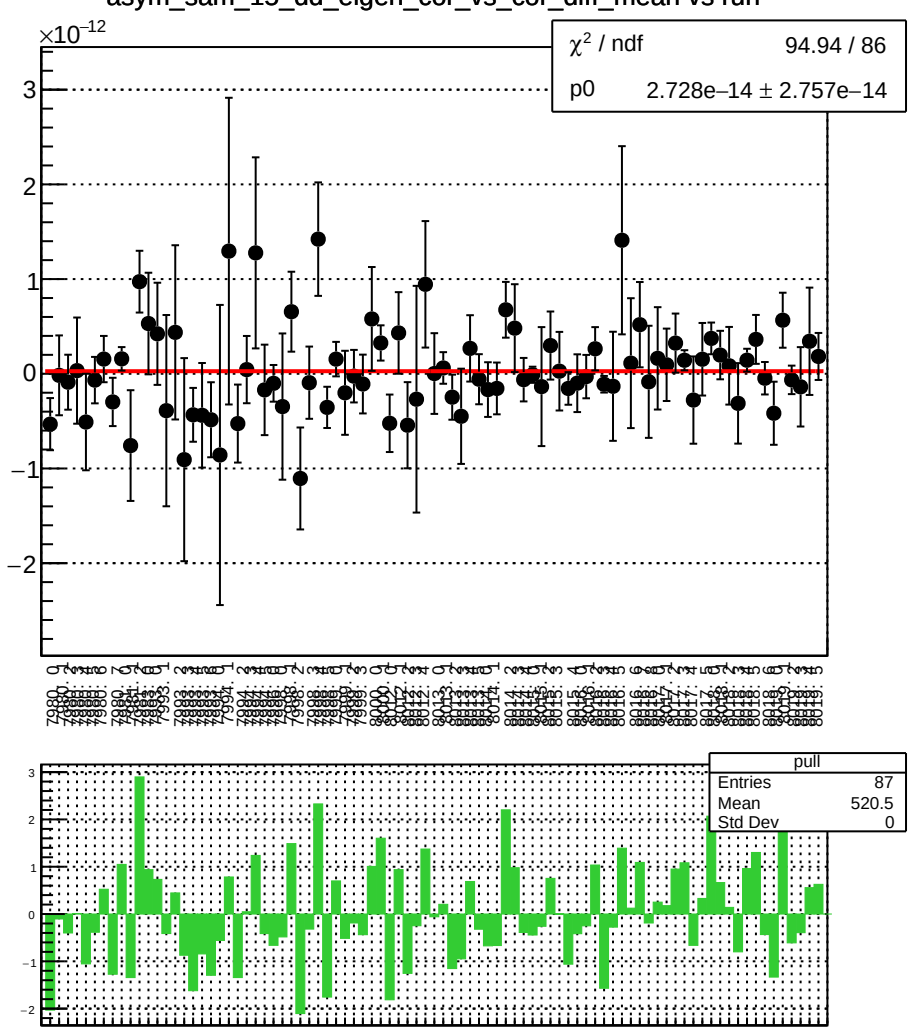

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.278e+05 / 86
p0 0.0005759 ± 4.811e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

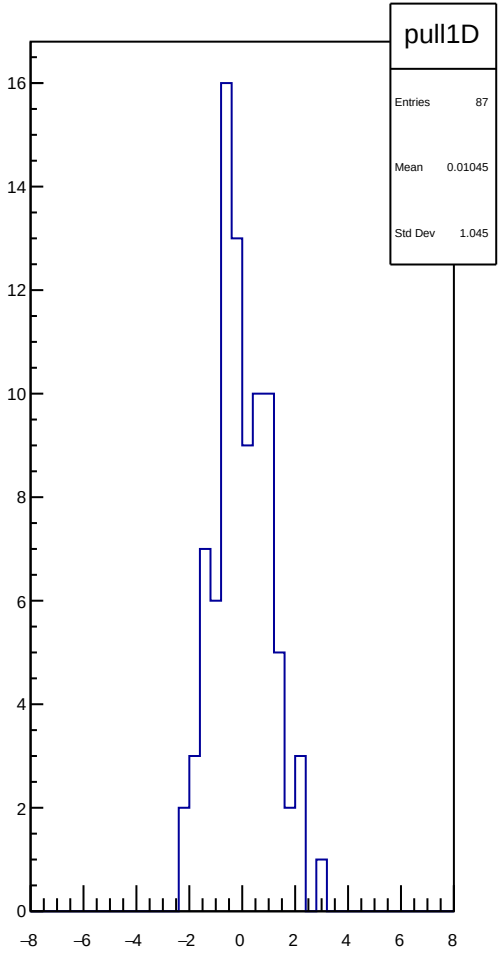

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.85 / 86
p0 −0.006126 ± 0.04707
pull
Entries 87
Mean −38.89
Std Dev 0
pull1D
Entries 87
Mean −0.06129
Std Dev 1.026

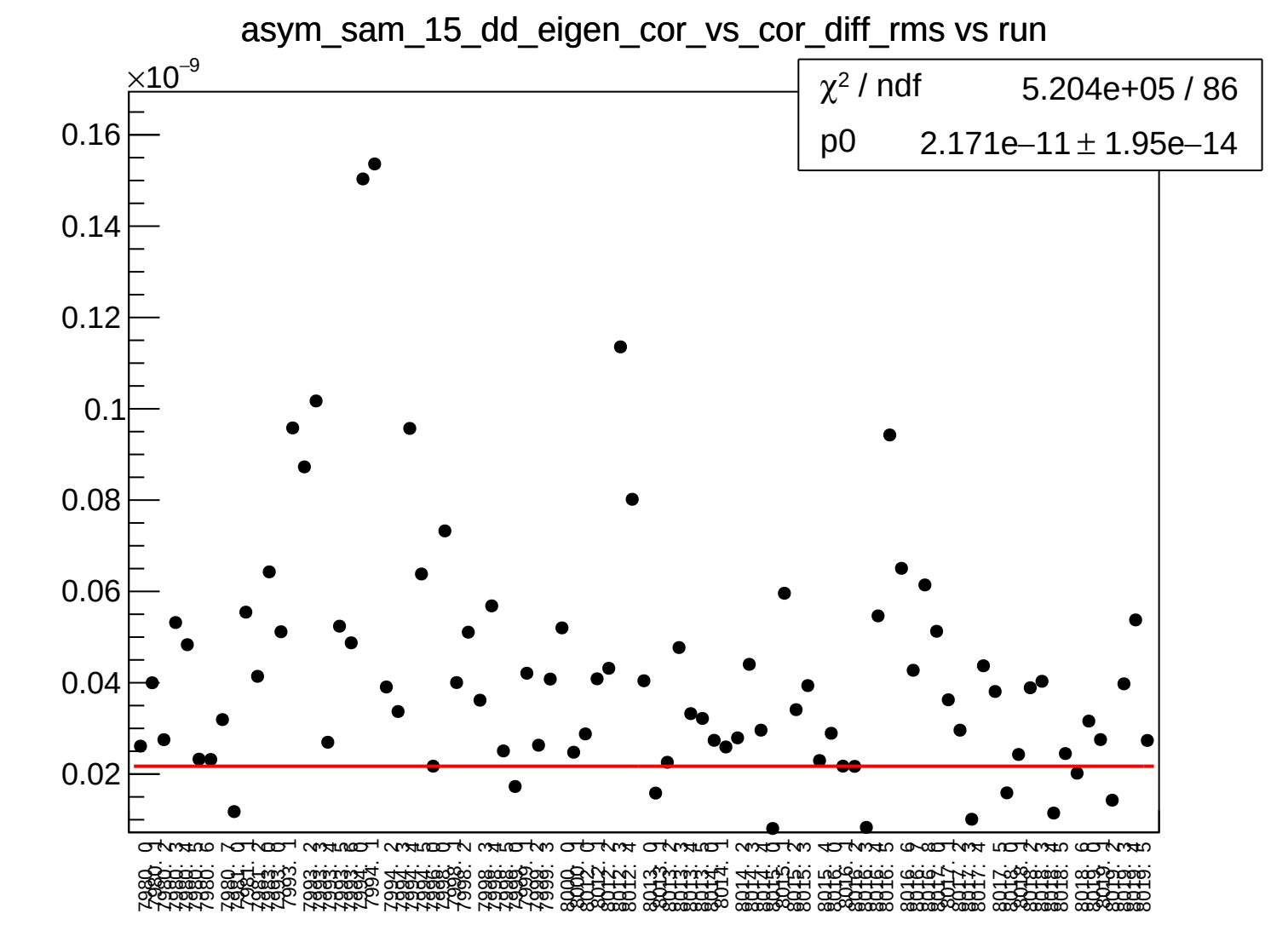

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.176e+05 / 86
p0 41.34 ± 0.03328
100
90
80
70
60
50
40
30

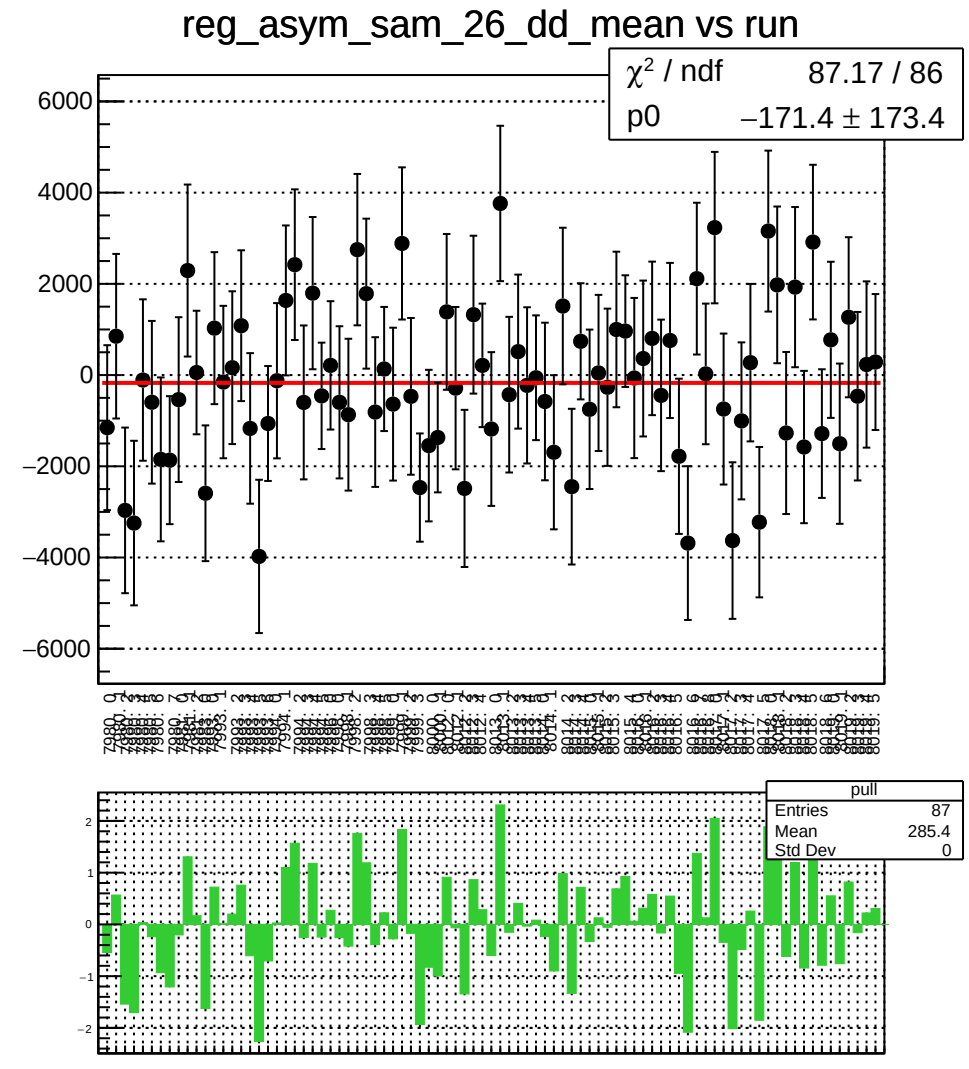

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.85 / 86
p0 −0.006126 ± 0.04707
pull
Entries 87
Mean −38.89
Std Dev 0
pull1D
Entries 87
Mean −0.06129
Std Dev 1.026

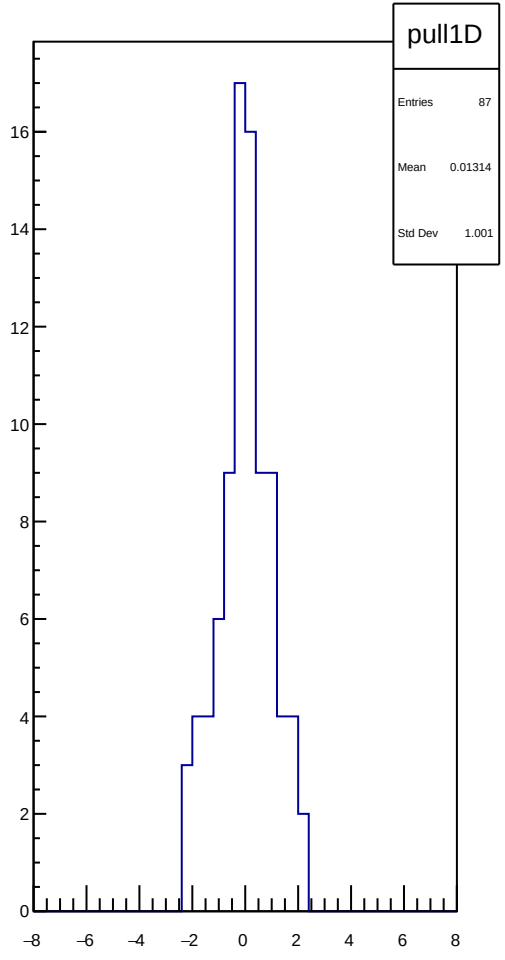

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.176e+05 / 86
p0 41.34 ± 0.03328
100
90
80
70
60
50
40
30

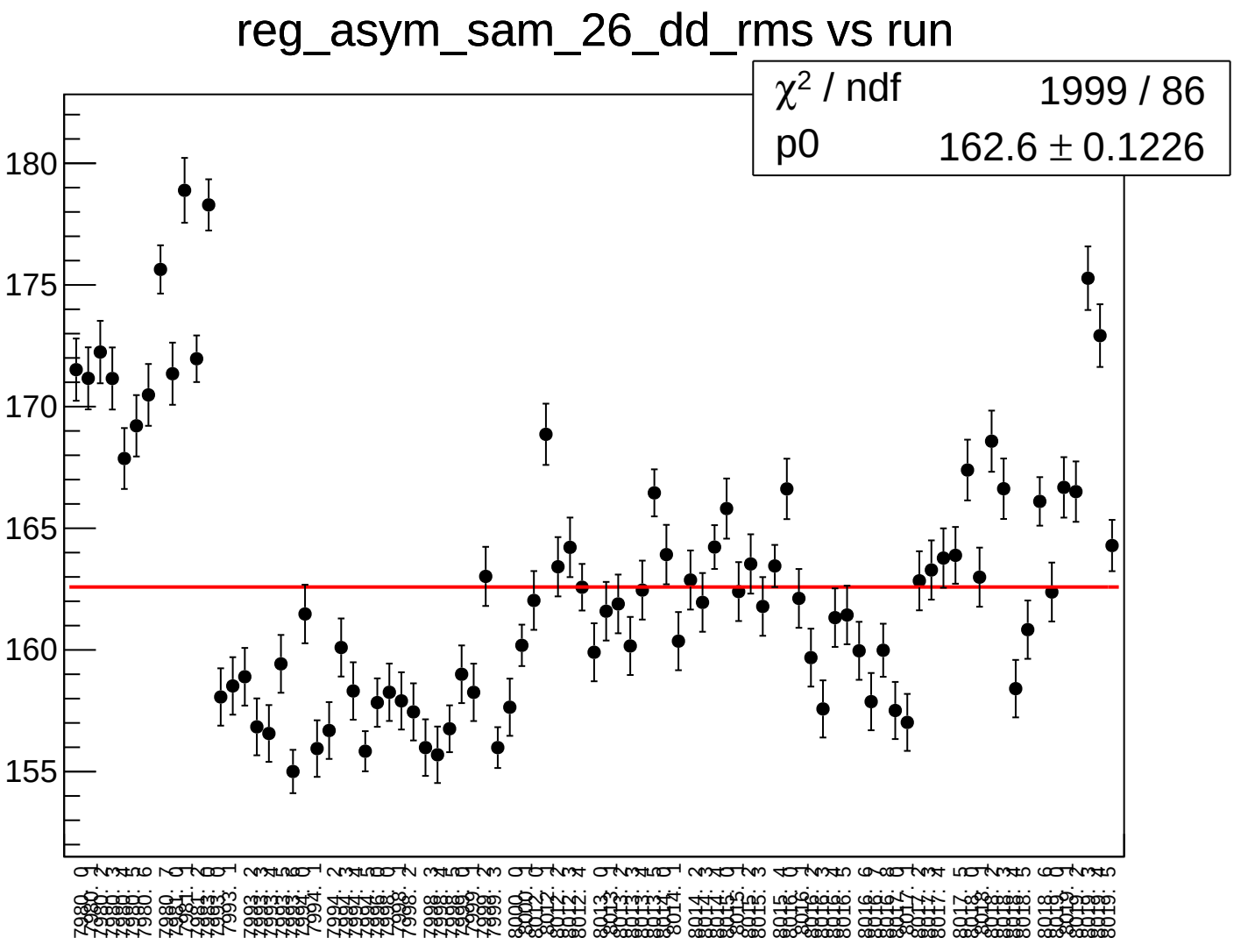

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.94 / 86
p0 2.728e−14 ± 2.757e−14
pull
Entries 87
Mean 520.5
Std Dev 0

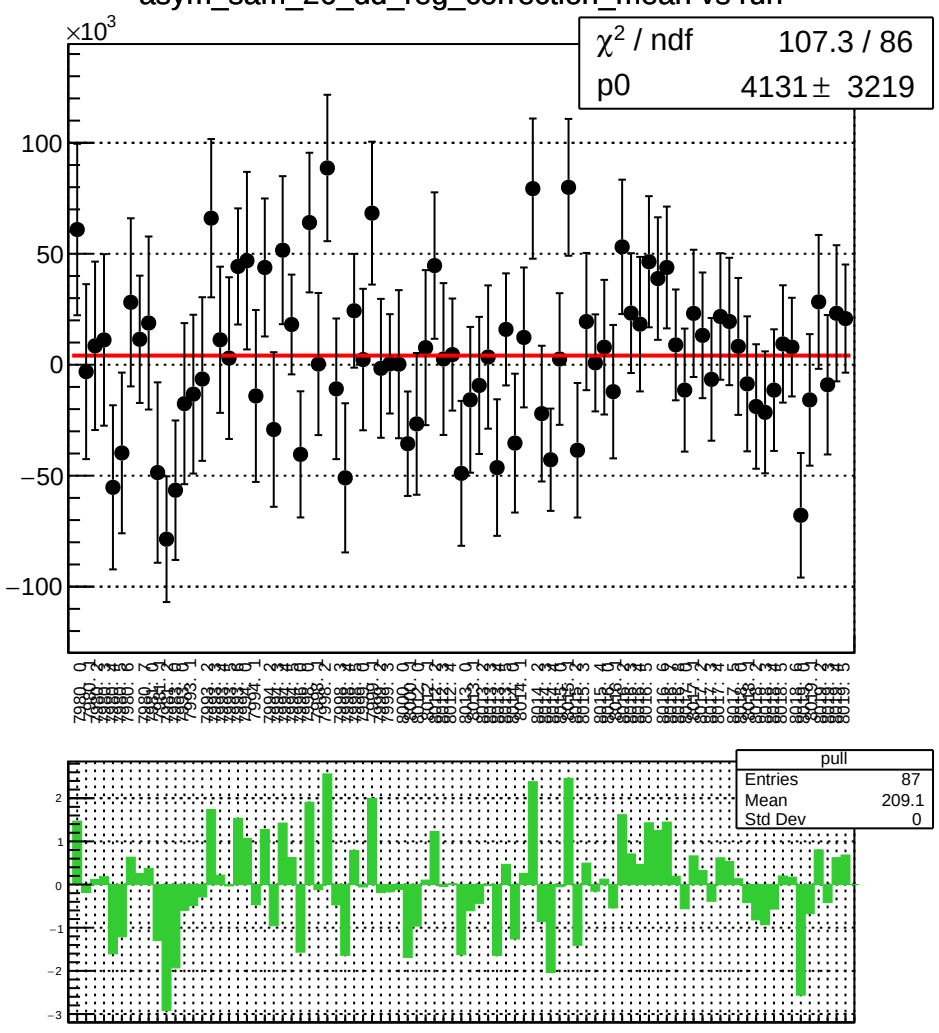

pull1D
Entries 87
Mean 0.01045
Std Dev 1.045

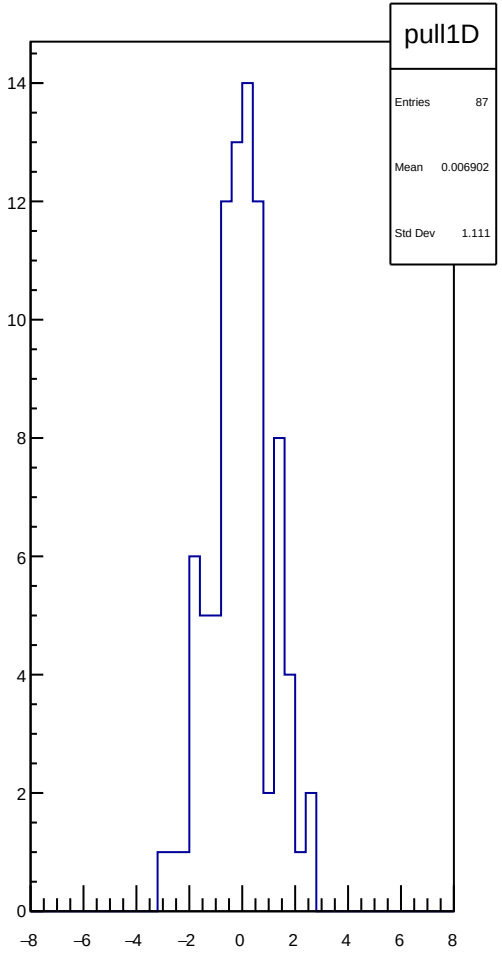

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.204e+05 / 86
p0 2.171e−11 ± 1.95e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

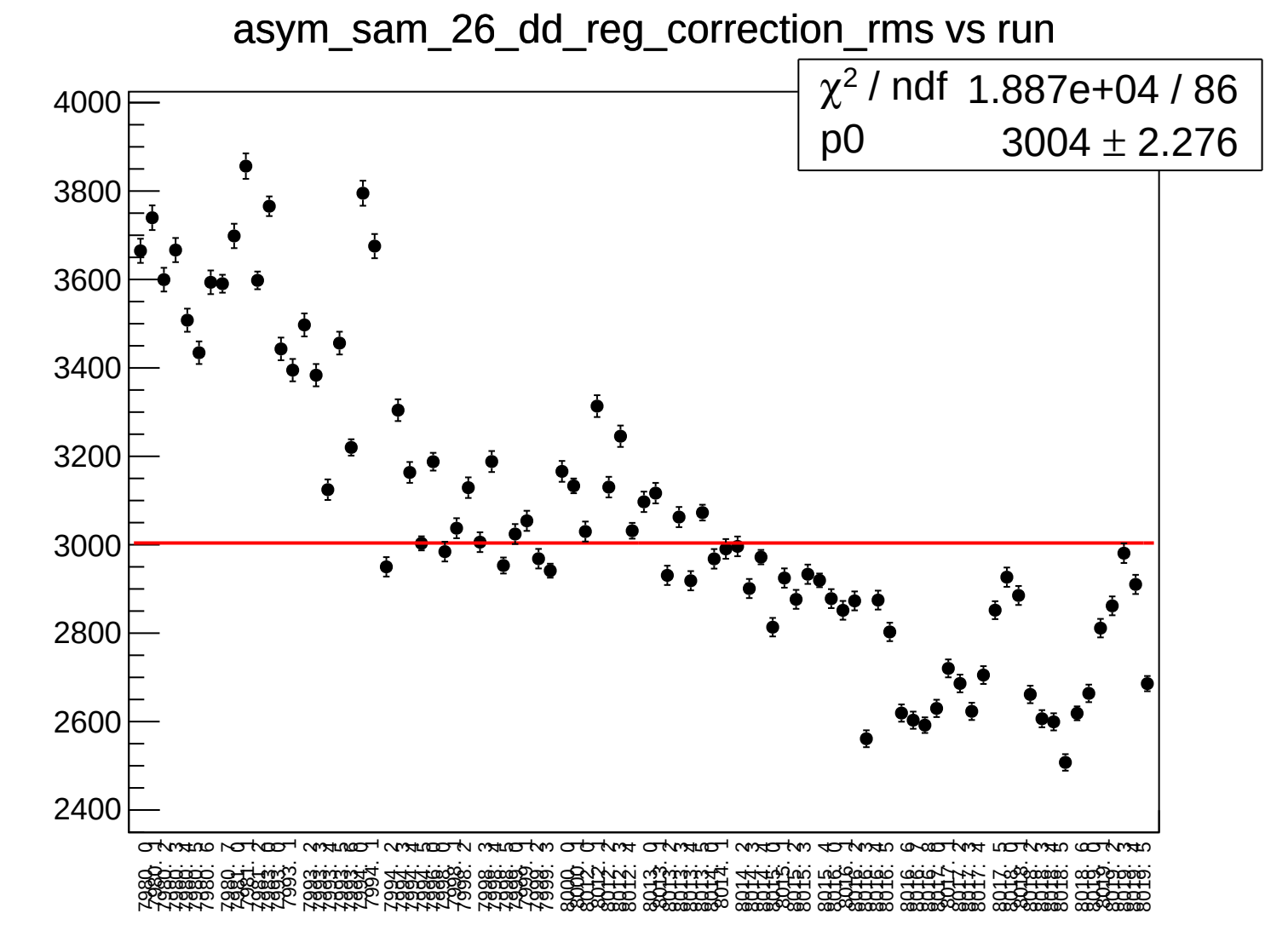

reg_asym_sam_26_dd_mean vs run
χ² / ndf 87.17 / 86
p0 −171.4 ± 173.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 285.4
Std Dev 0
2
1
0
−1
−2

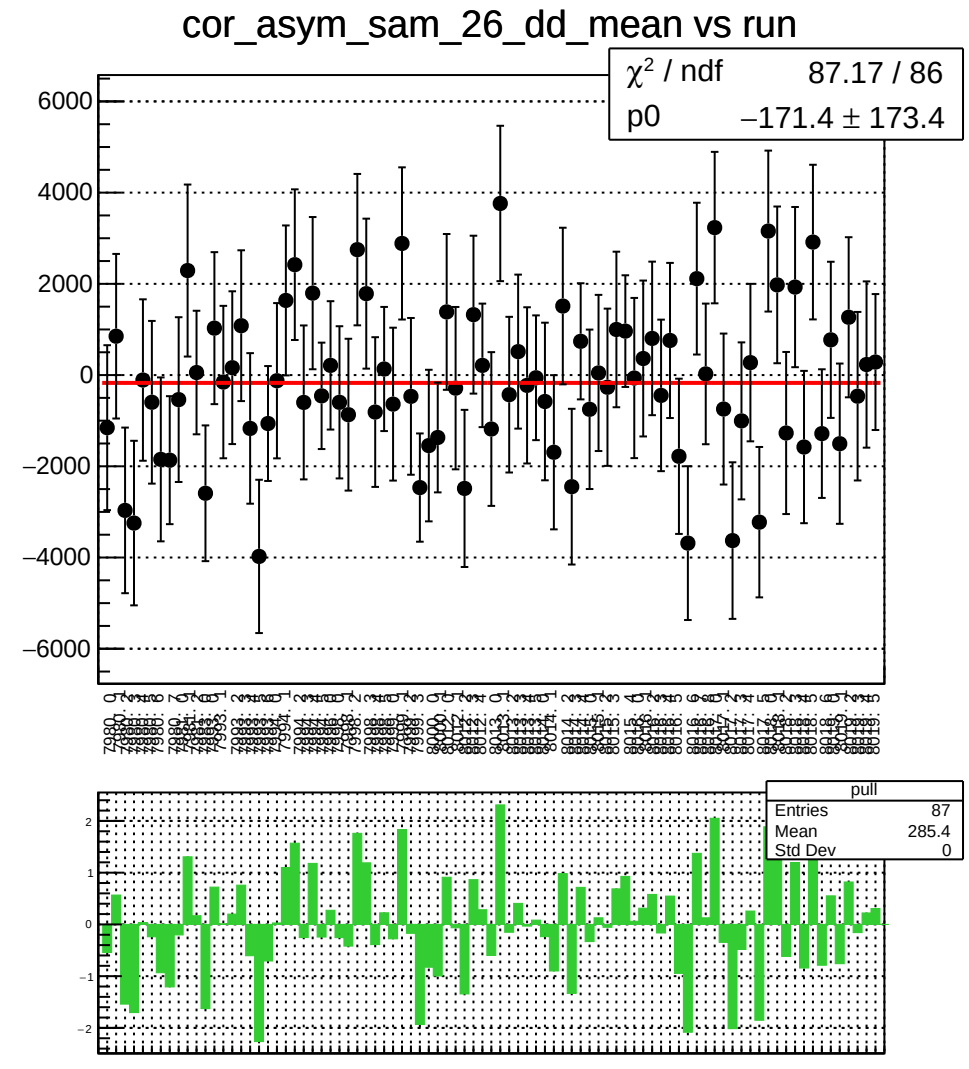

pull1D
Entries 87
Mean 0.01314
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

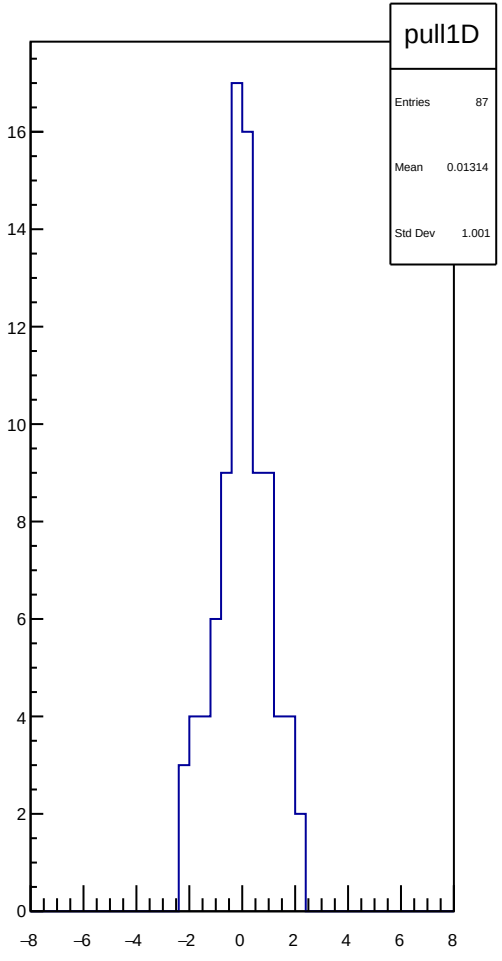

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1999 / 86
p0 162.6 ± 0.1226
180
175
170
165
160
155

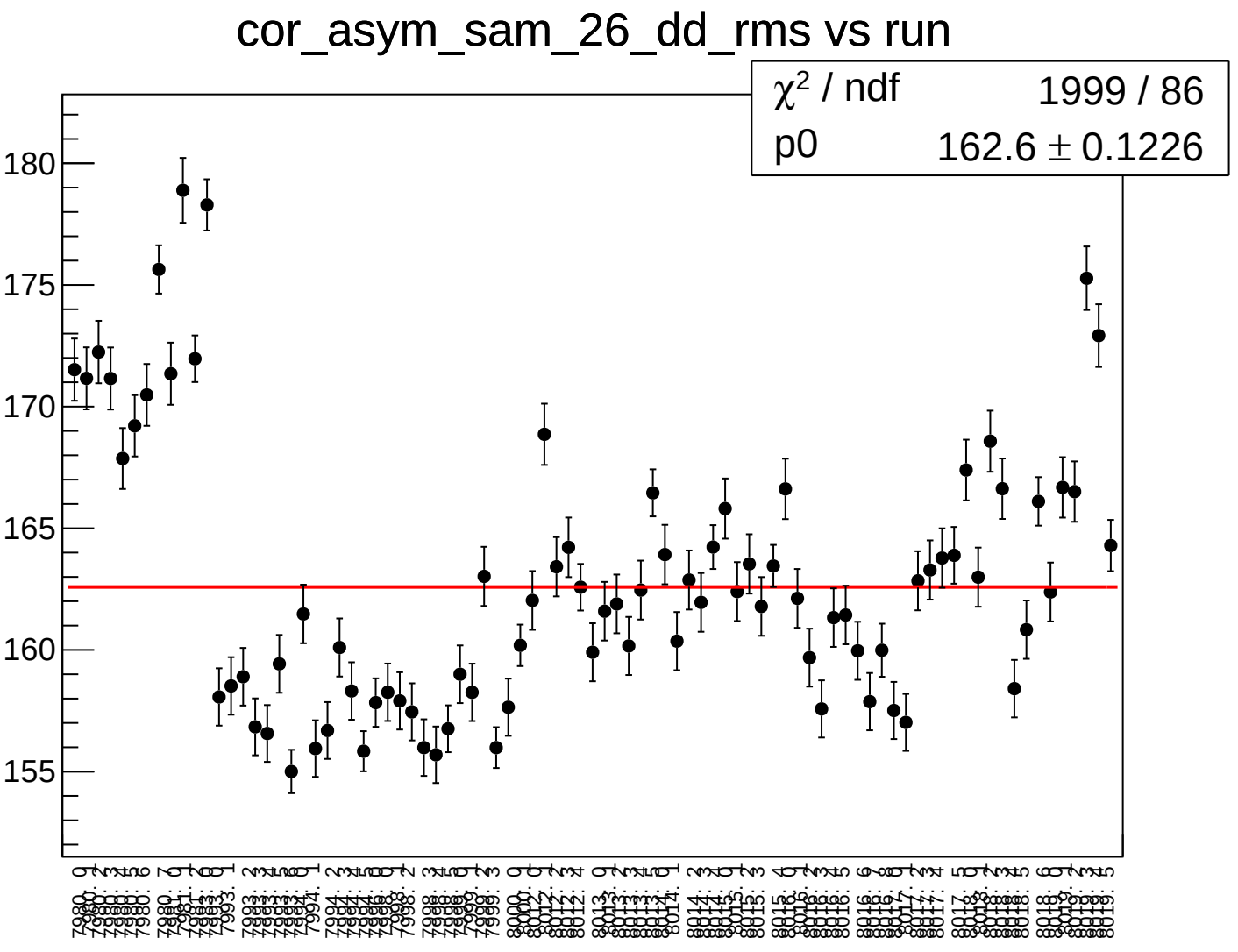

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 107.3 / 86
p0 4131 ± 3219
100
50
0
−50
−100
pull
Entries 87
Mean 209.1
Std Dev 0
2
1
0
−1
−2
−3

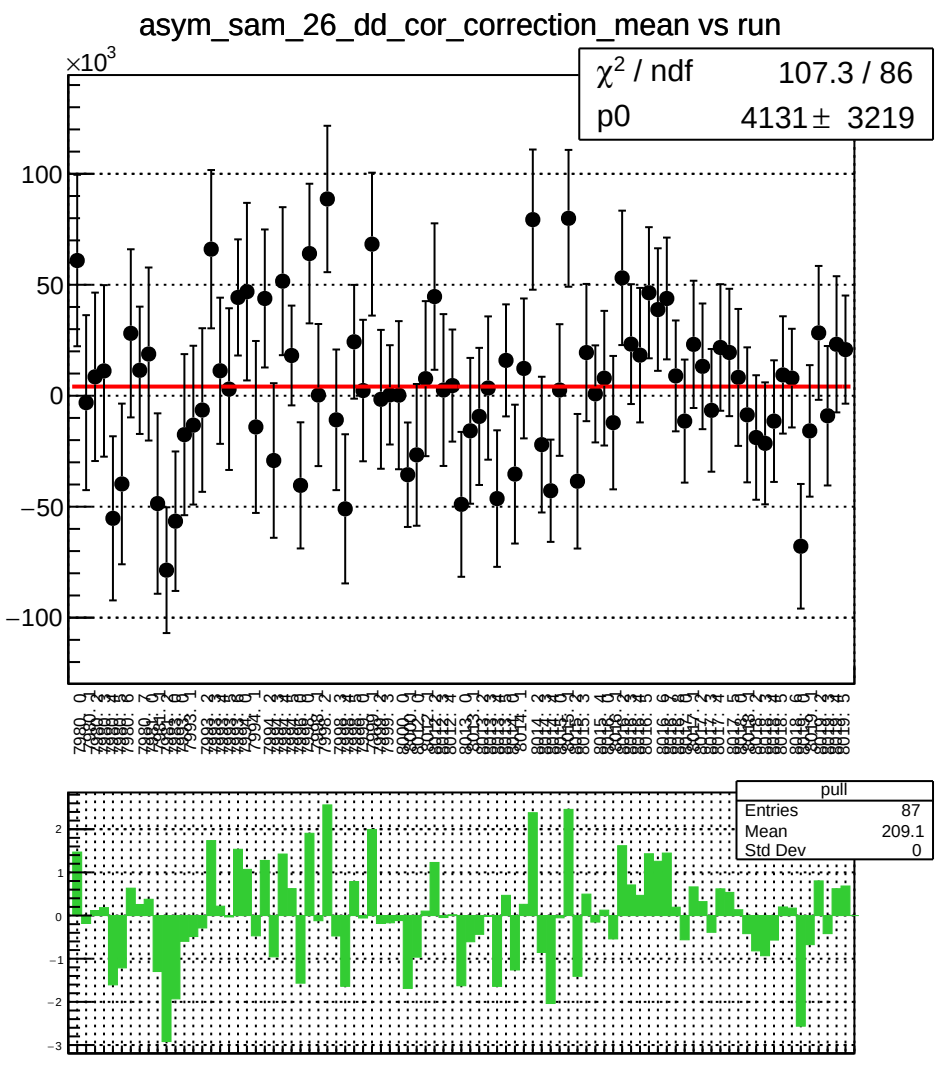

pull1D
Entries 87
Mean 0.006902
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

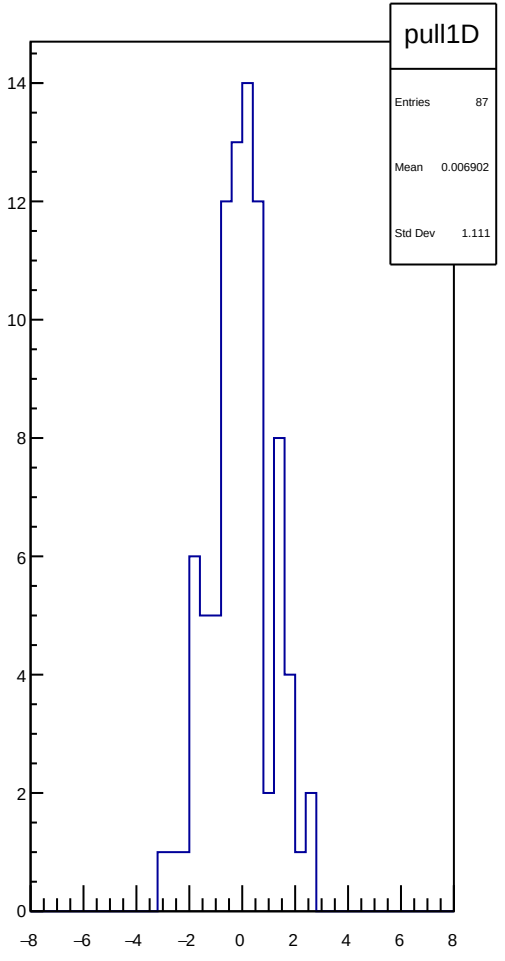

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 1.887e+04 / 86
p0 3004 ± 2.276
4000
3800
3600
3400
3200
3000
2800
2600
2400

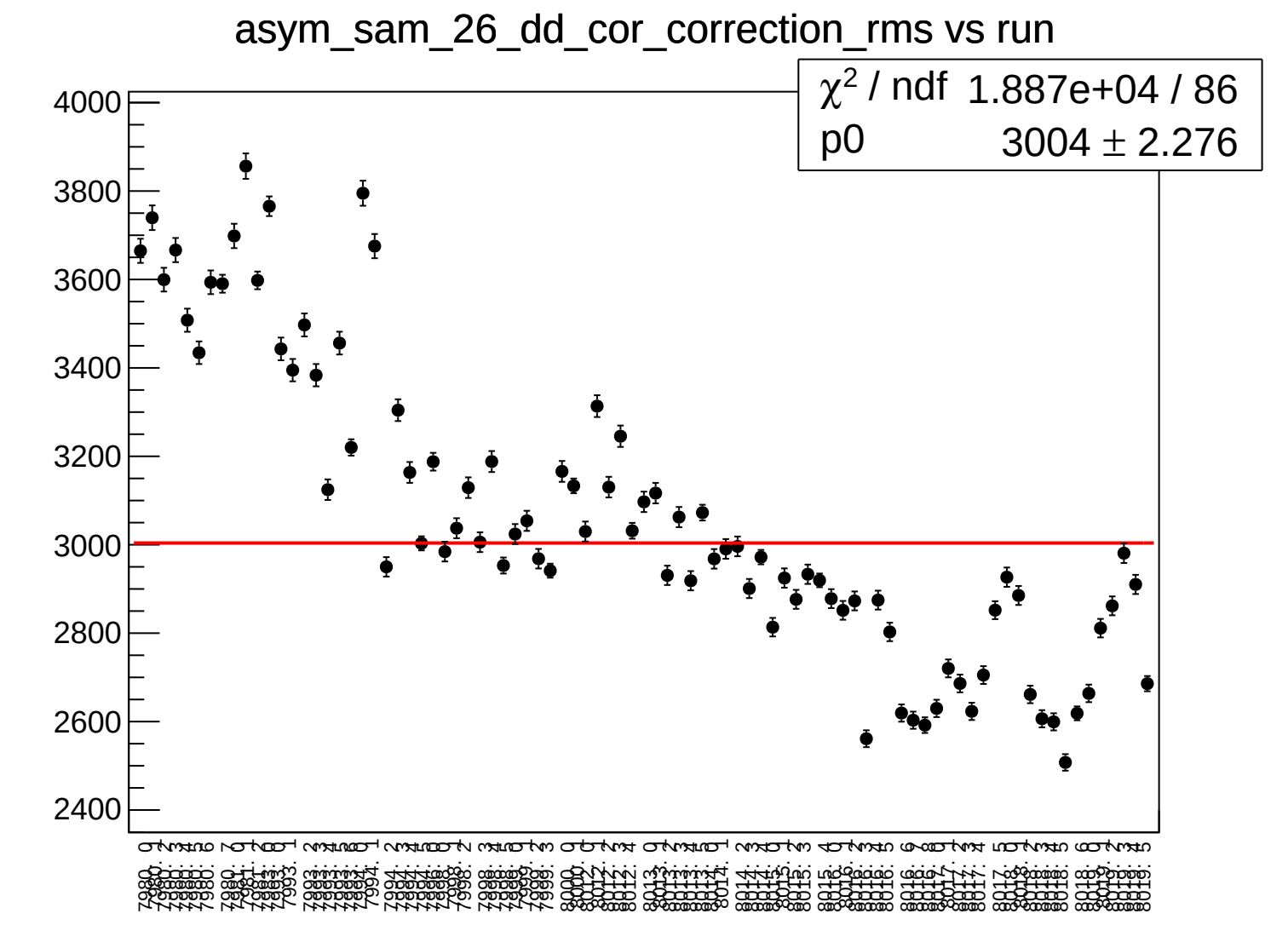

cor_asym_sam_26_dd_mean vs run
χ² / ndf 87.17 / 86
p0 −171.4 ± 173.4
pull
Entries 87
Mean 285.4
Std Dev 0

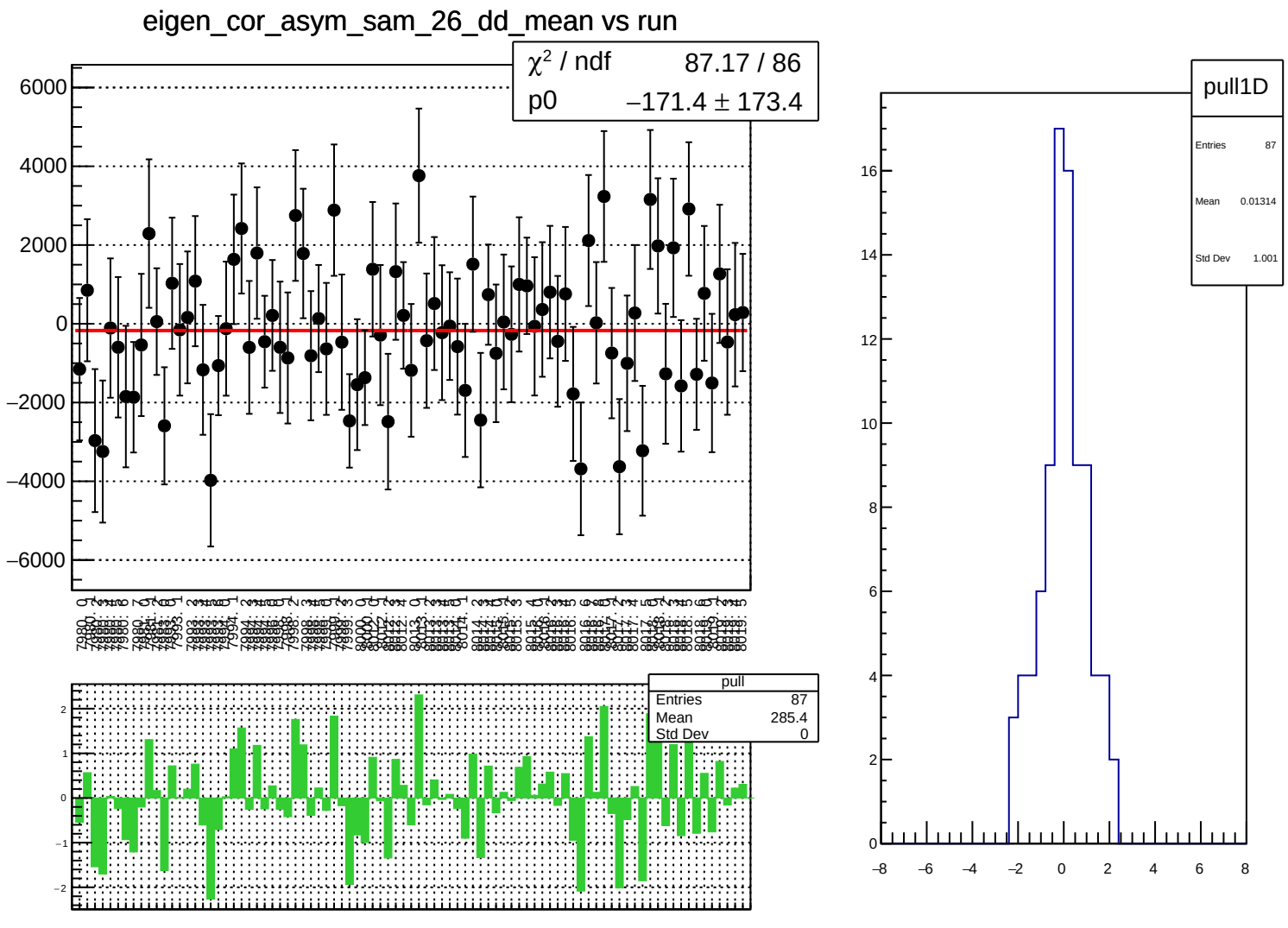

pull1D
Entries 87
Mean 0.01314
Std Dev 1.001

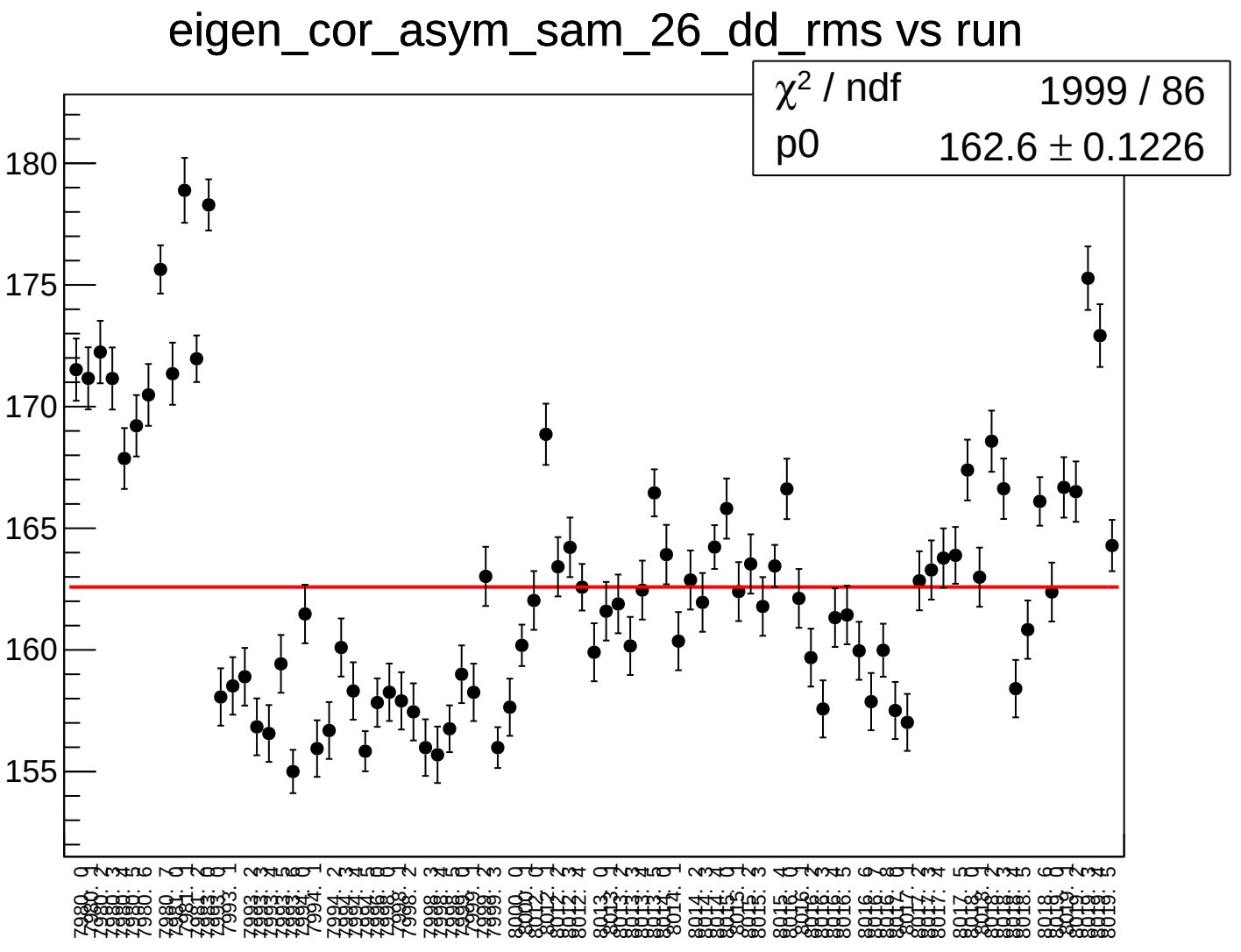

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1999 / 86
p0 162.6 ± 0.1226
180
175
170
165
160
155

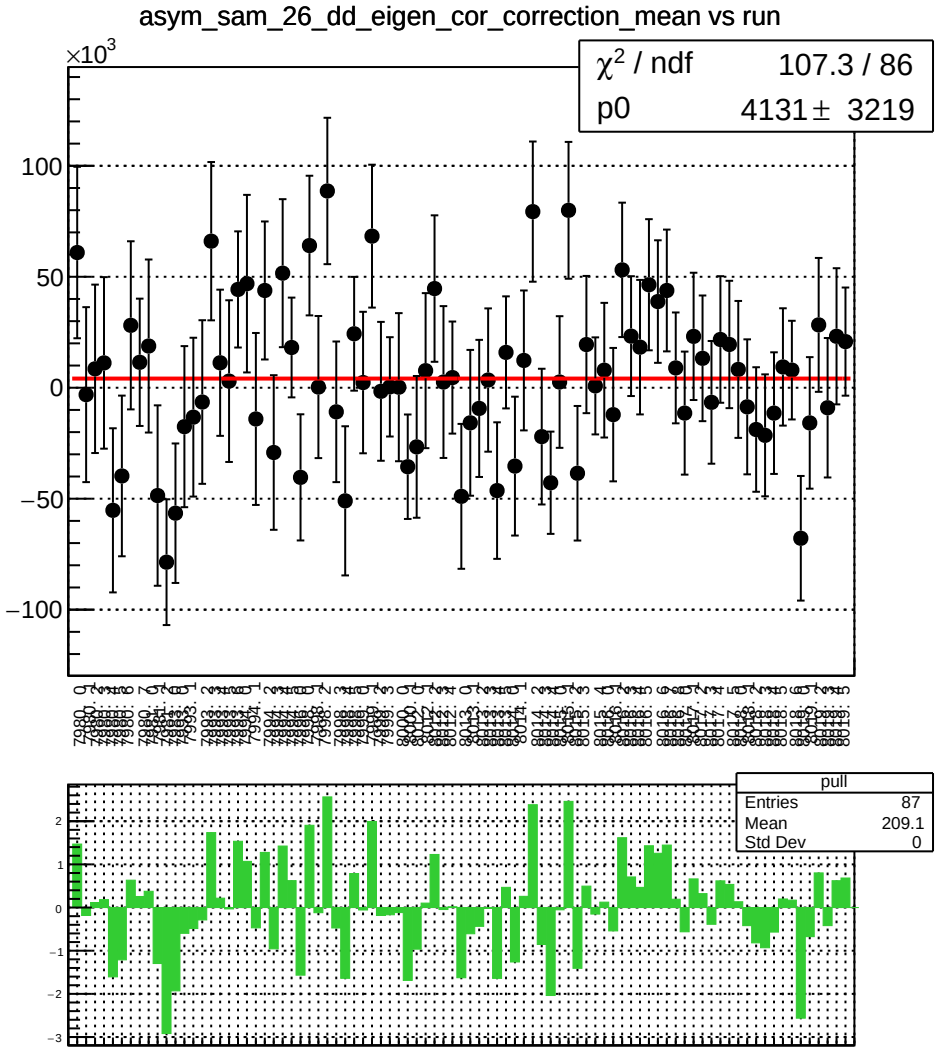

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 107.3 / 86
p0 4131 ± 3219
100
50
0
−50
−100
pull
Entries 87
Mean 209.1
Std Dev 0
2
1
0
−1
−2
−3

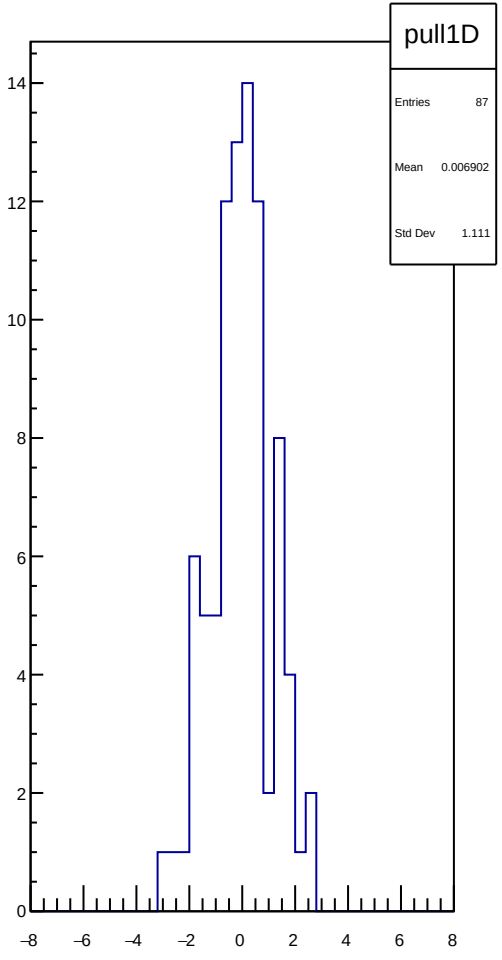

pull1D
Entries 87
Mean 0.006902
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

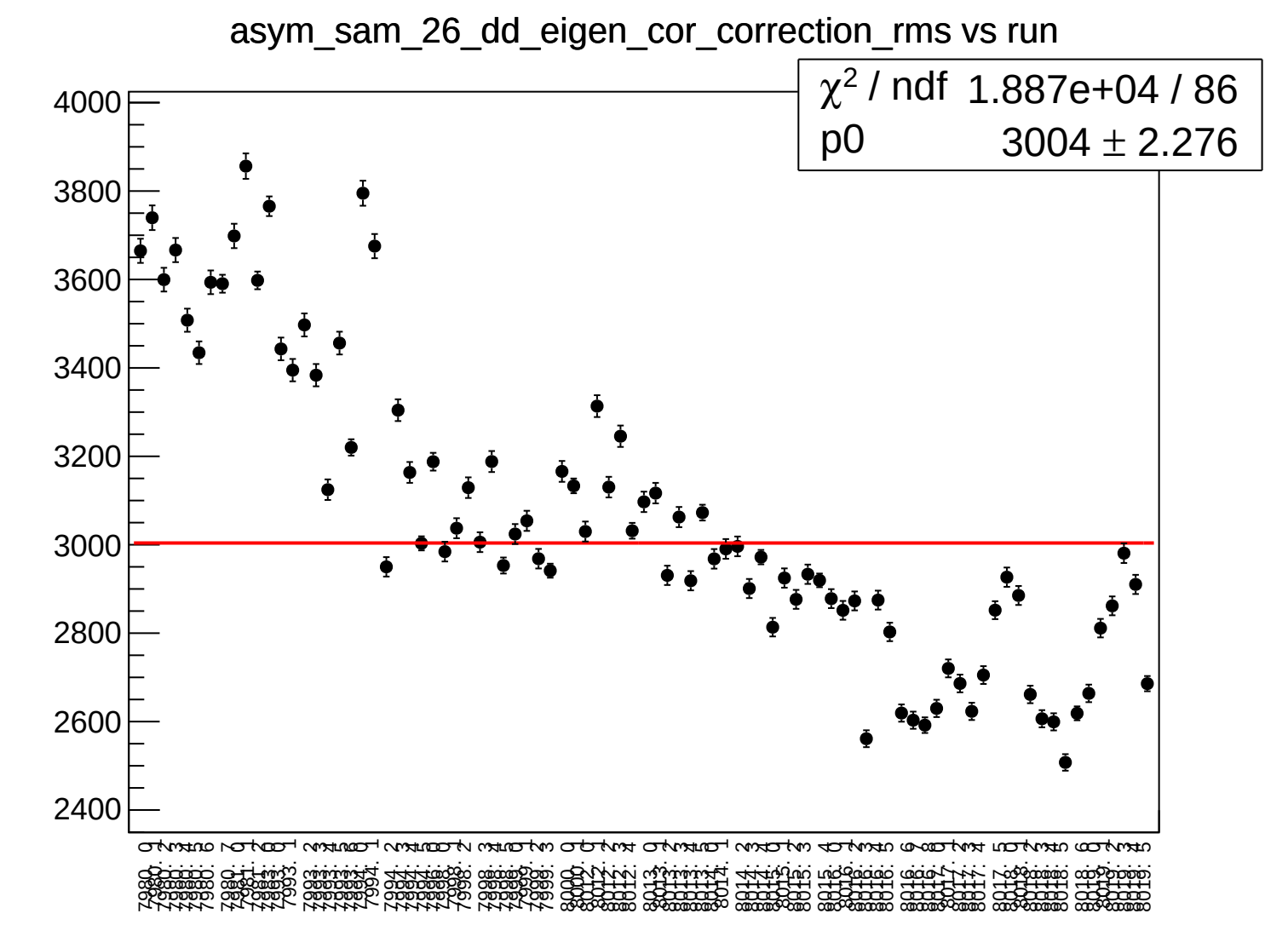

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 1.887e+04 / 86
p0 3004 ± 2.276
4000
3800
3600
3400
3200
3000
2800
2600
2400

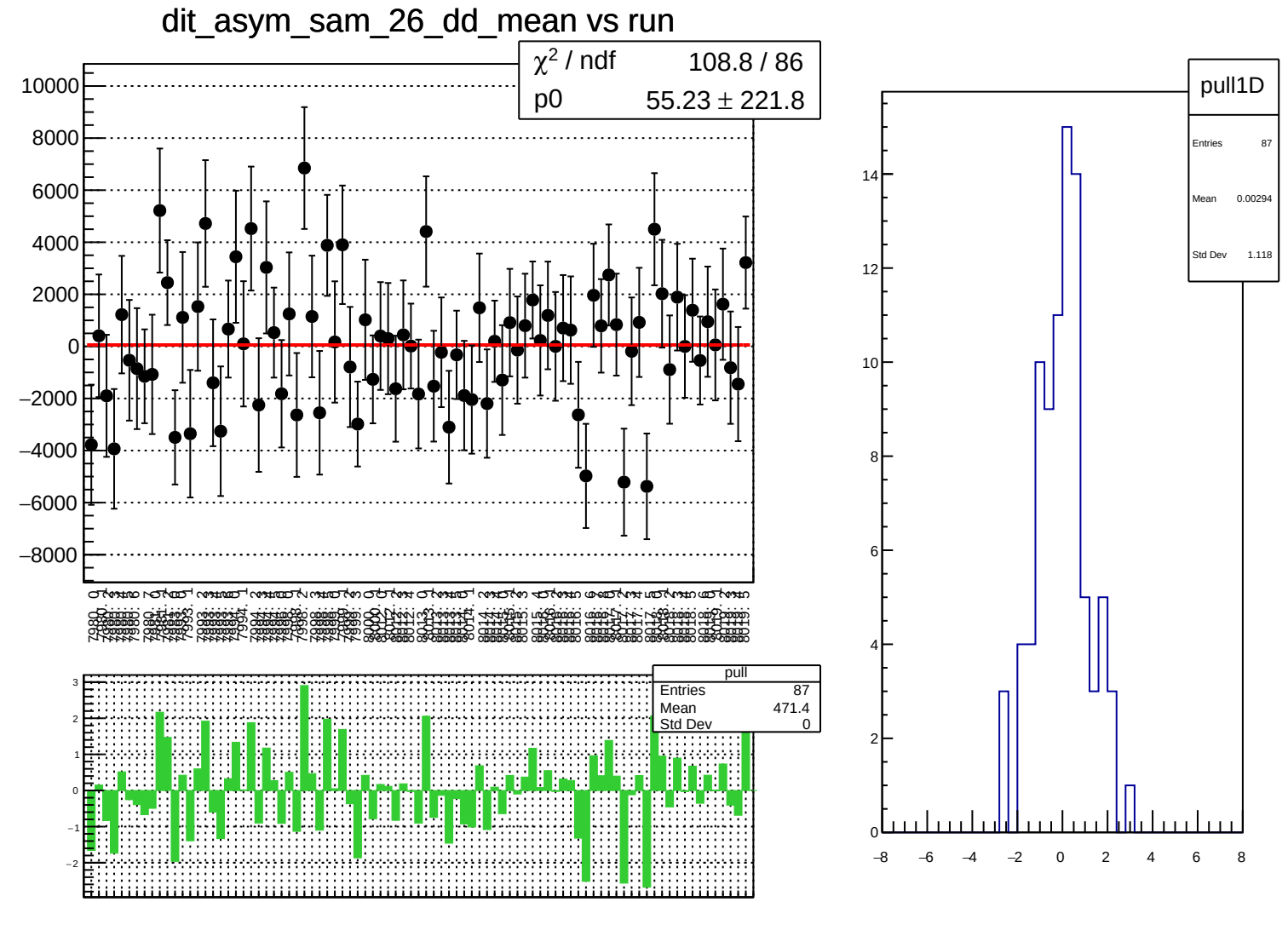

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 87.17 / 86
p0 −171.4 ± 173.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 285.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.01314
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

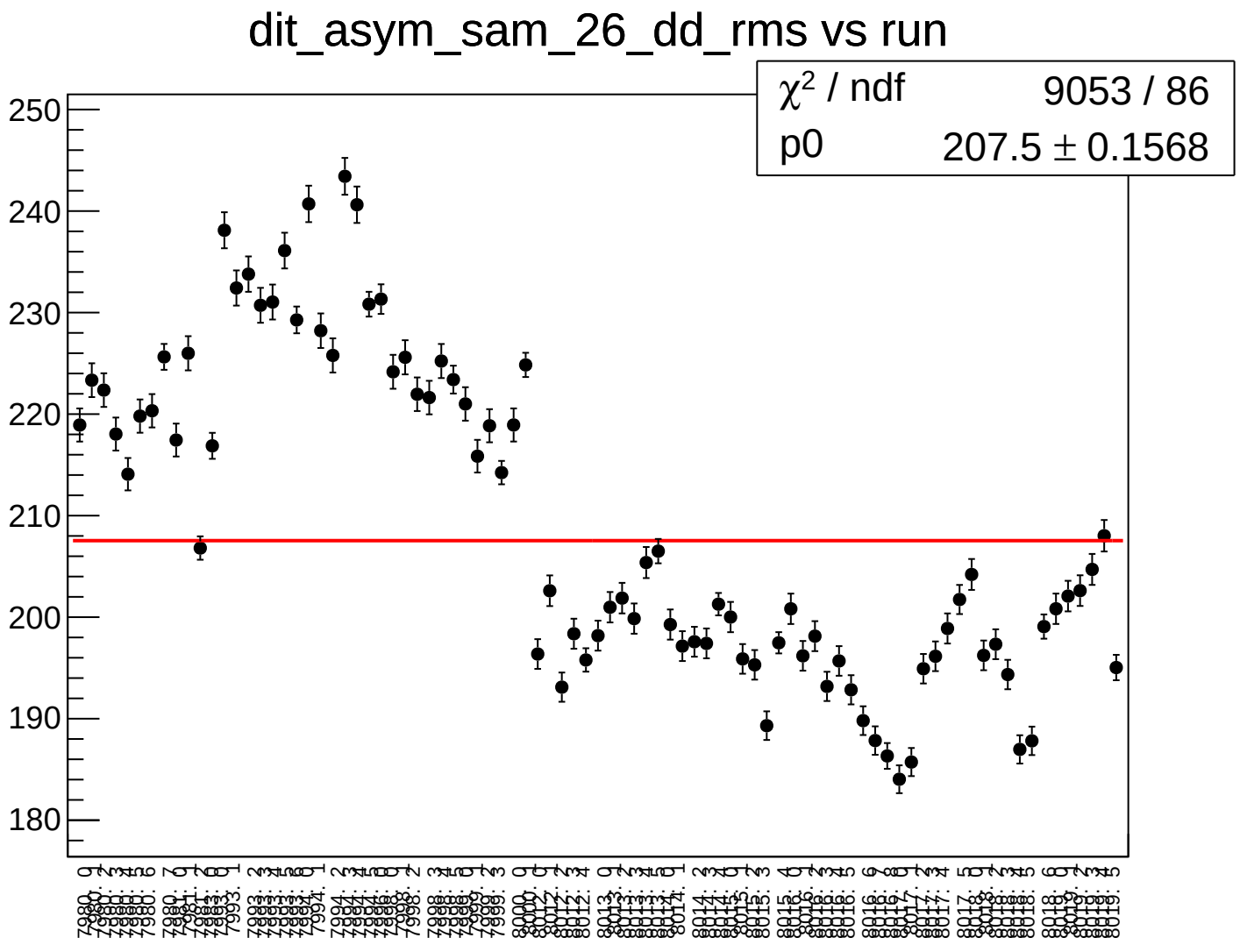

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1999 / 86
p0 162.6 ± 0.1226
180
175
170
165
160
155

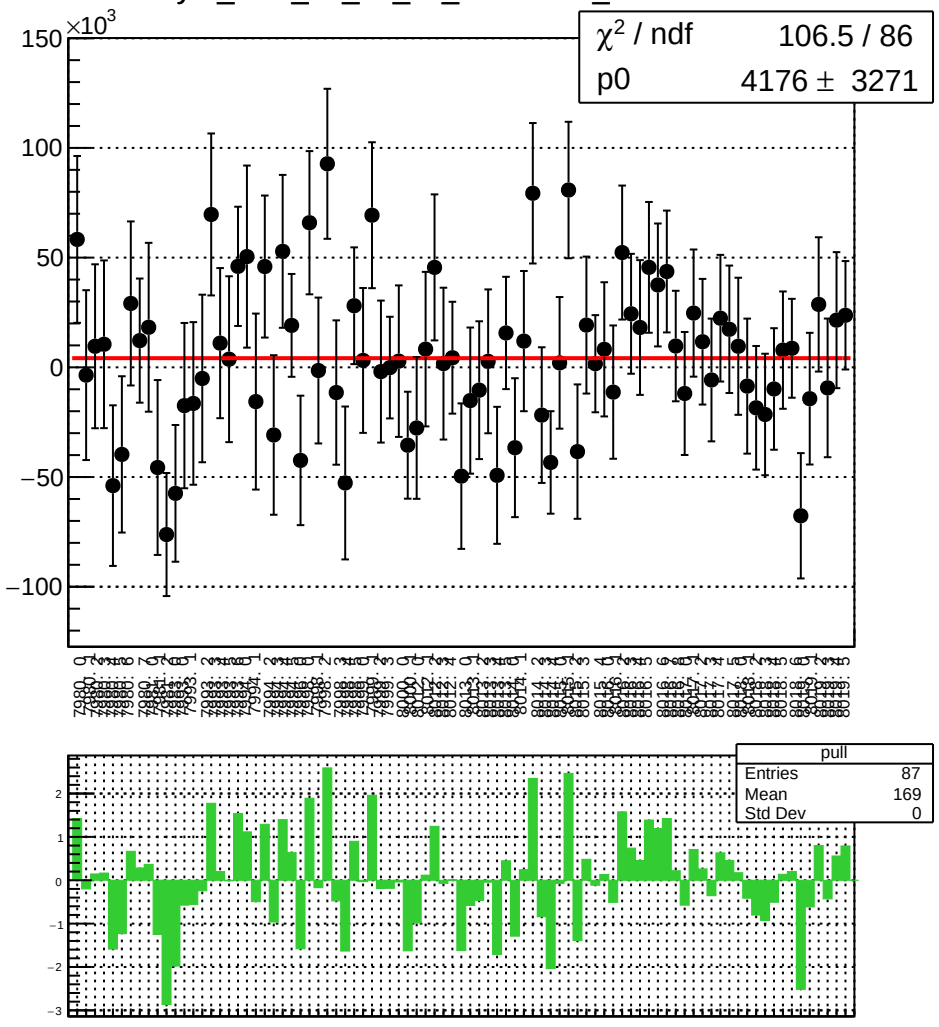

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 107.3 / 86
p0 4131 ± 3219
100
50
0
−50
−100
pull
Entries 87
Mean 209.1
Std Dev 0
2
1
0
−1
−2
−3

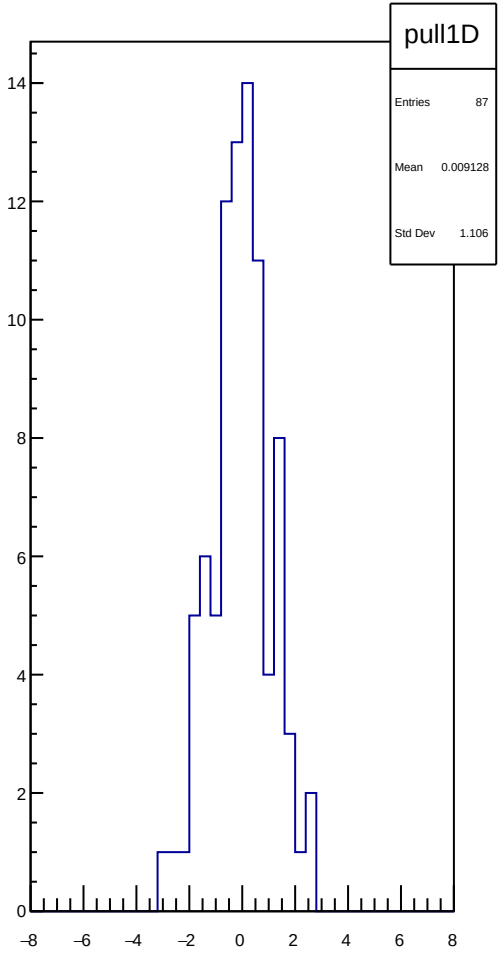

pull1D
Entries 87
Mean 0.006902
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

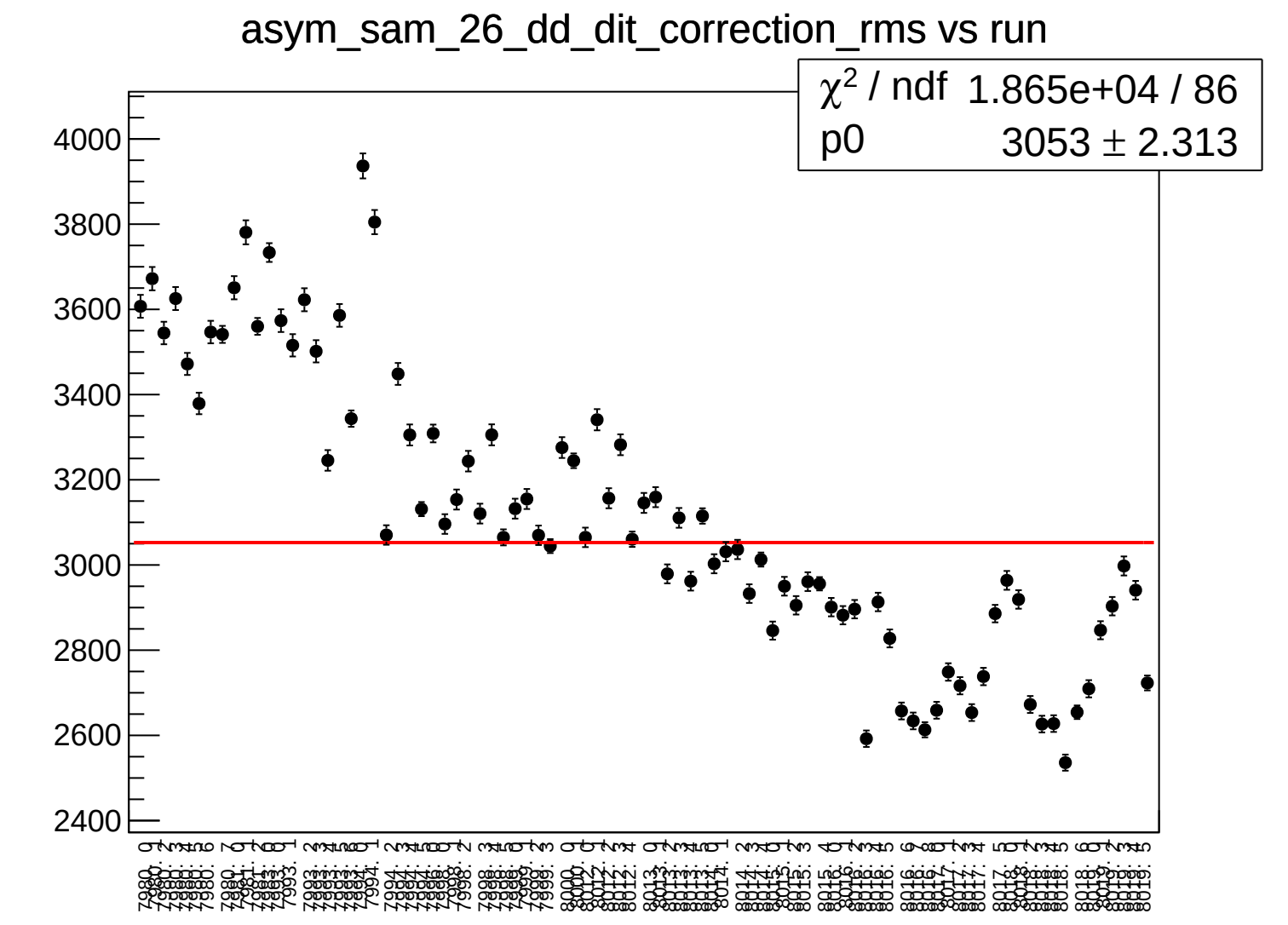

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.887e+04 / 86
p0 3004 ± 2.276
4000
3800
3600
3400
3200
3000
2800
2600
2400

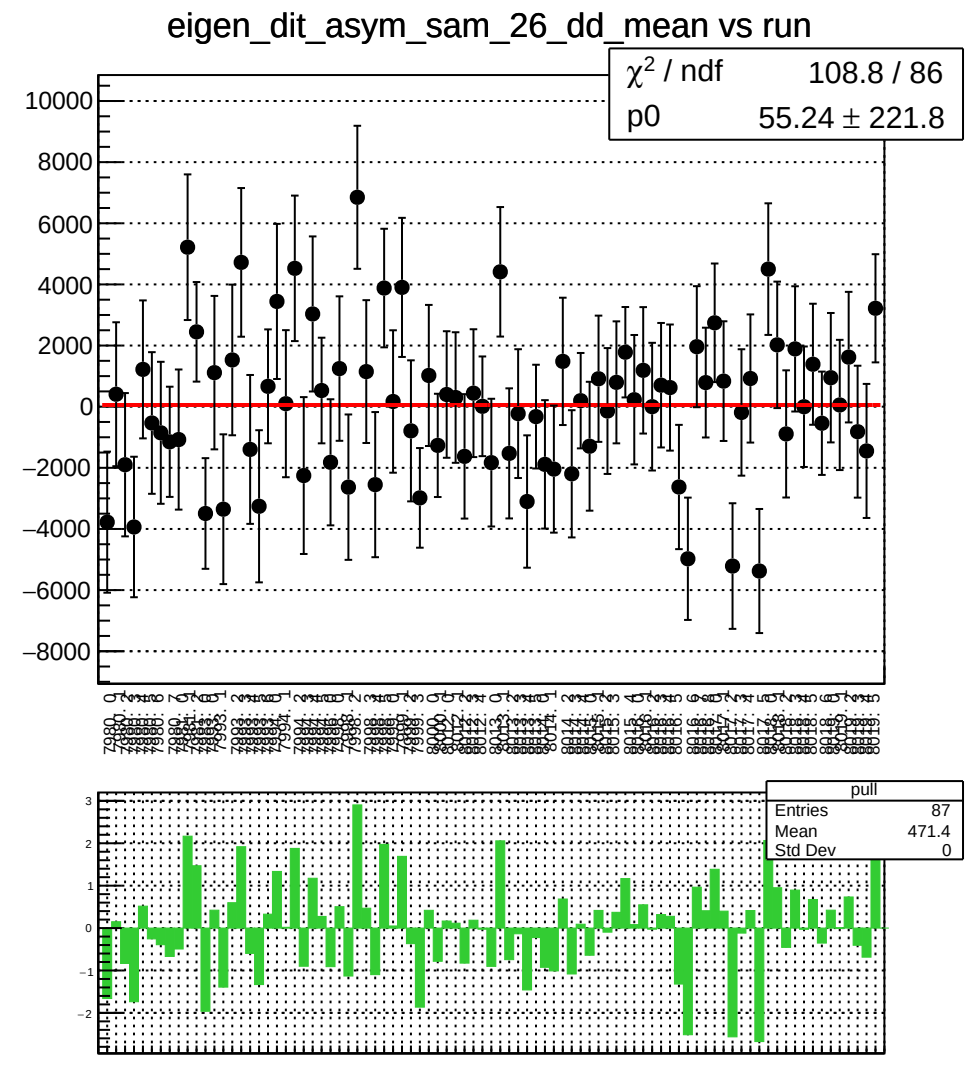

dit_asym_sam_26_dd_mean vs run
χ² / ndf 108.8 / 86
p0 55.23 ± 221.8
pull
Entries 87
Mean 471.4
Std Dev 0
pull1D
Entries 87
Mean 0.00294
Std Dev 1.118

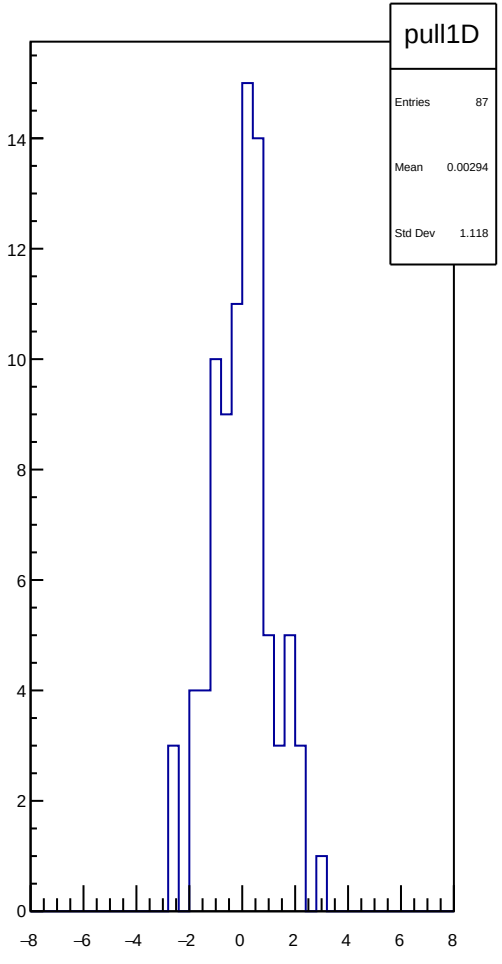

dit_asym_sam_26_dd_rms vs run
χ² / ndf 9053 / 86
p0 207.5 ± 0.1568
250
240
230
220
210
200
190
180

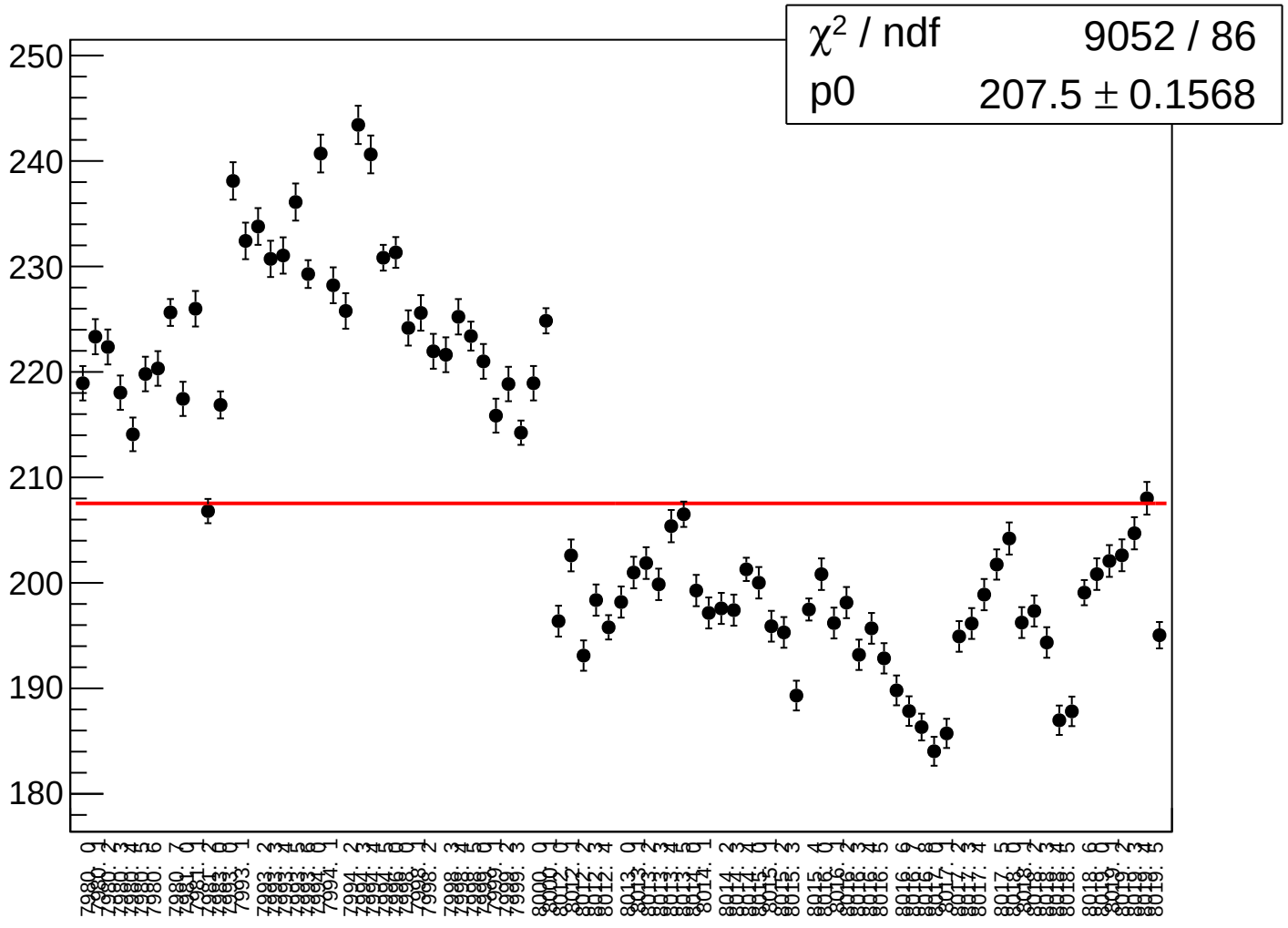

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 106.5 / 86
p0 4176 ± 3271
×10³
150
100
50
0
−50
−100
pull
Entries 87
Mean 169
Std Dev 0
2
1
0
−1
−2
−3

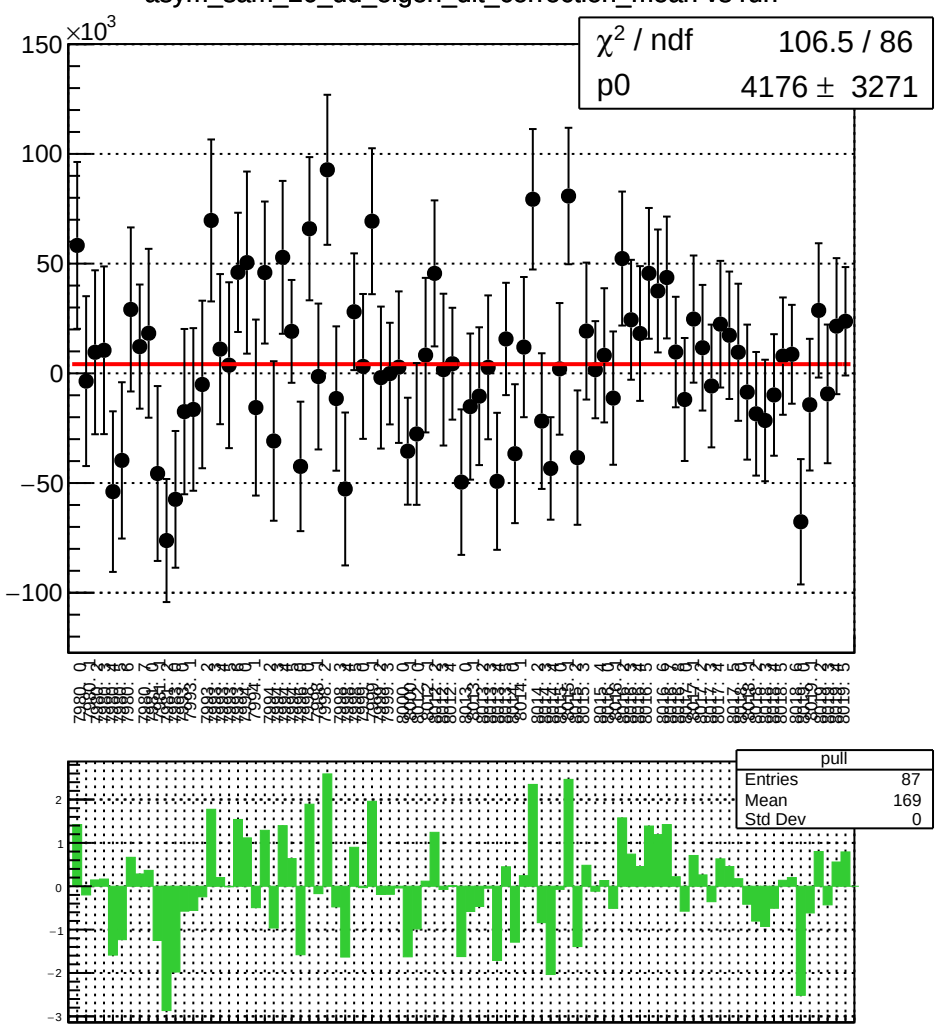

pull1D
Entries 87
Mean 0.009128
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

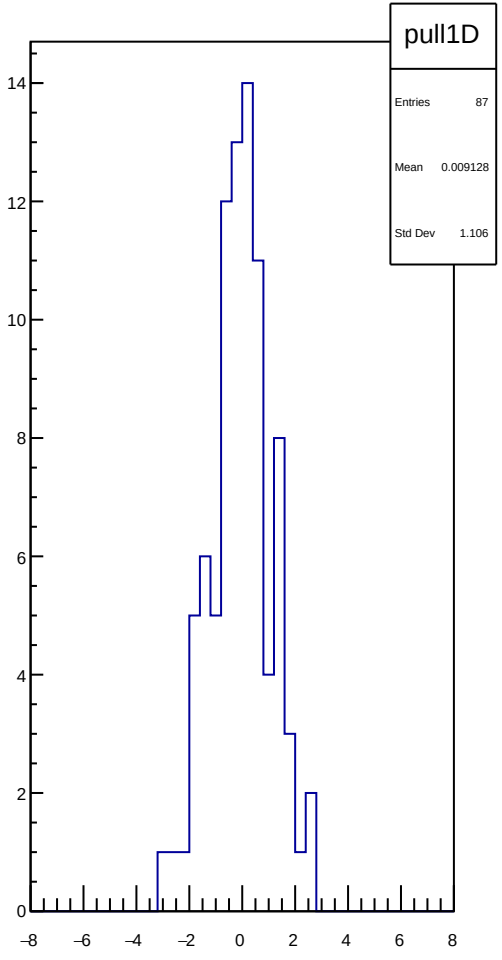

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1.865e+04 / 86
p0 3053 ± 2.313
4000
3800
3600
3400
3200
3000
2800
2600
2400

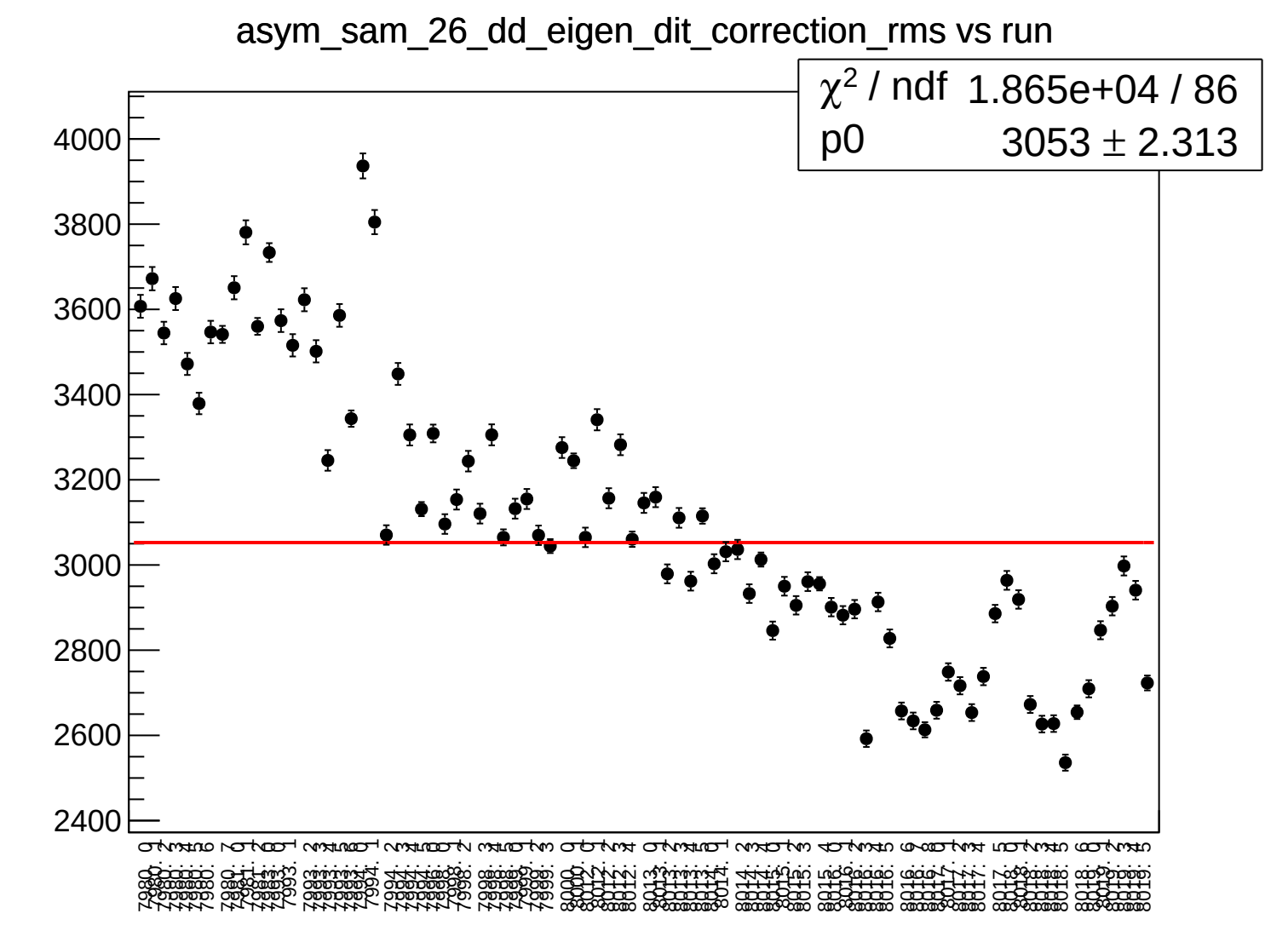

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 108.8 / 86
p0 55.24 ± 221.8
pull
Entries 87
Mean 471.4
Std Dev 0

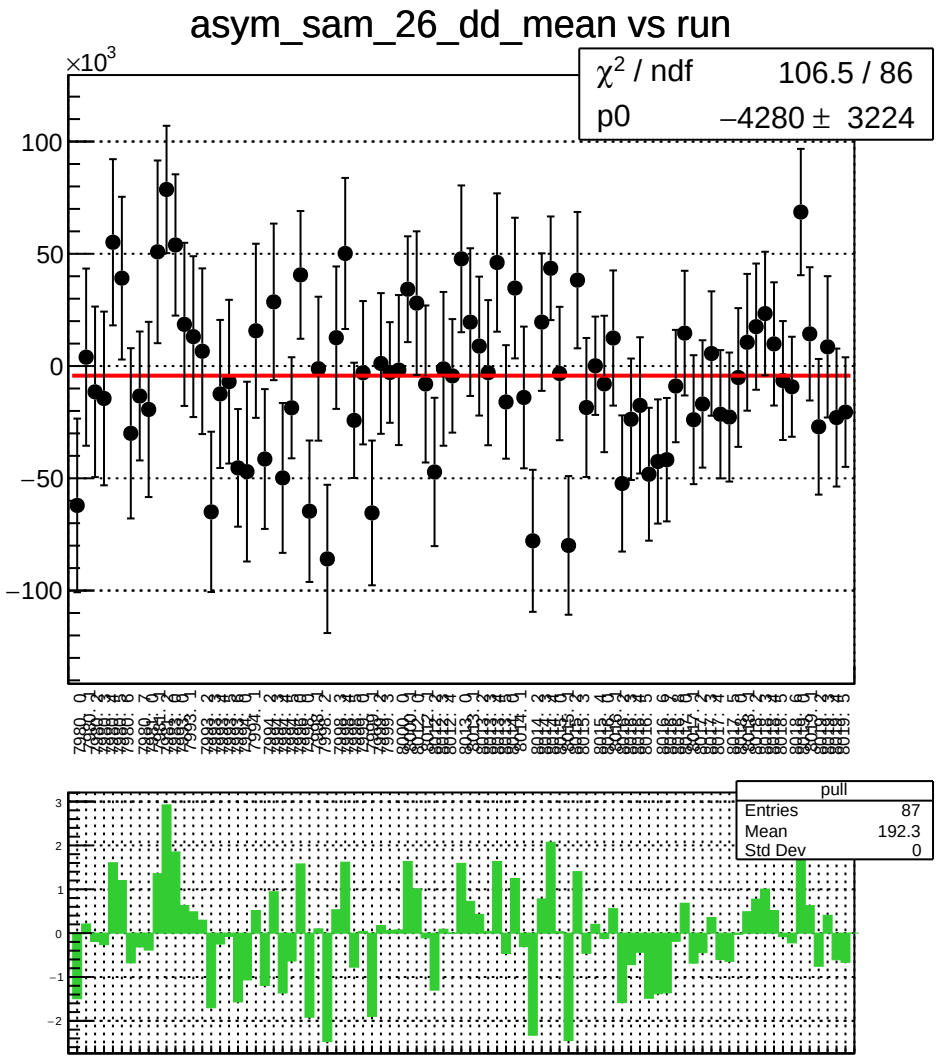

pull1D
Entries 87
Mean 0.00294
Std Dev 1.118

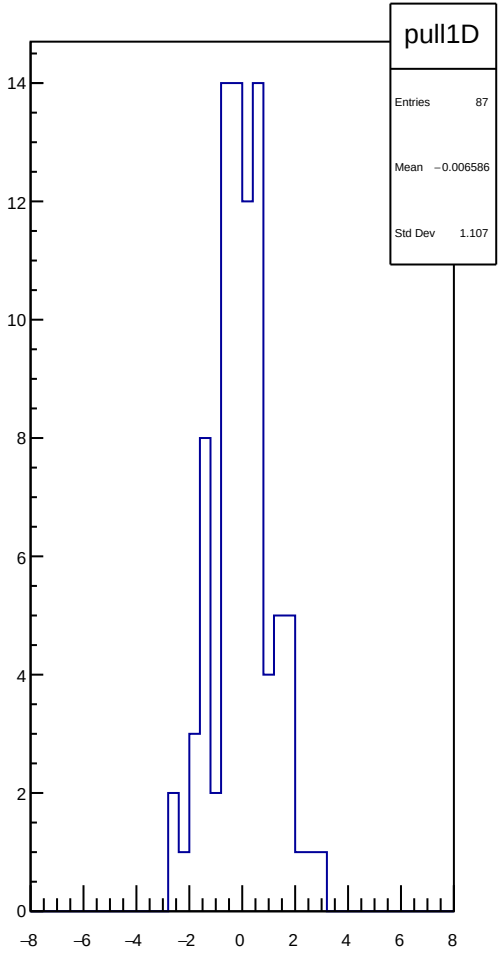

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 9052 / 86
p0 207.5 ± 0.1568
250
240
230
220
210
200
190
180

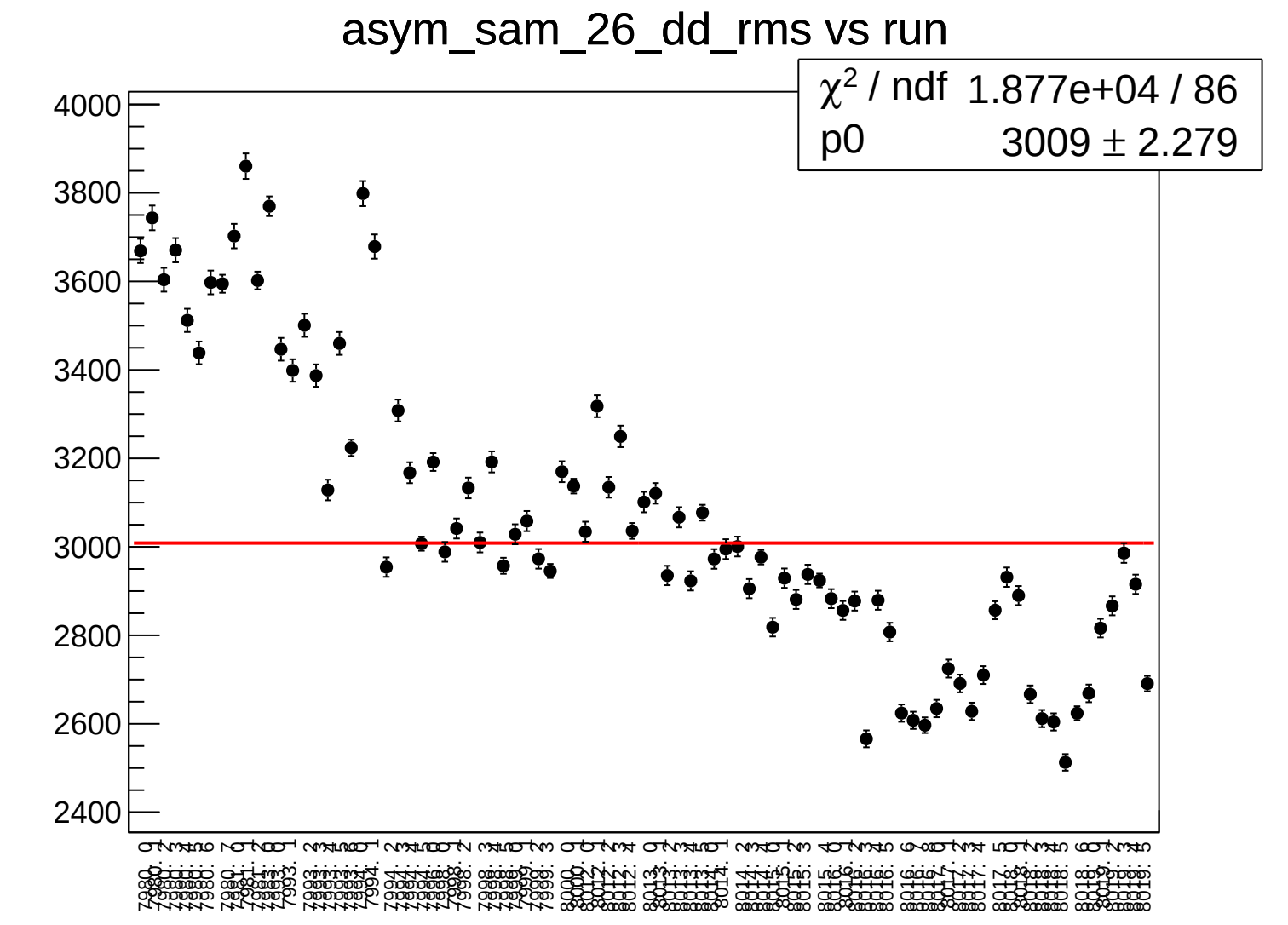

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.5 / 86
p0 4176 ± 3271
×10³
150
100
50
0
−50
−100
pull
Entries 87
Mean 169
Std Dev 0
2
1
0
−1
−2
−3

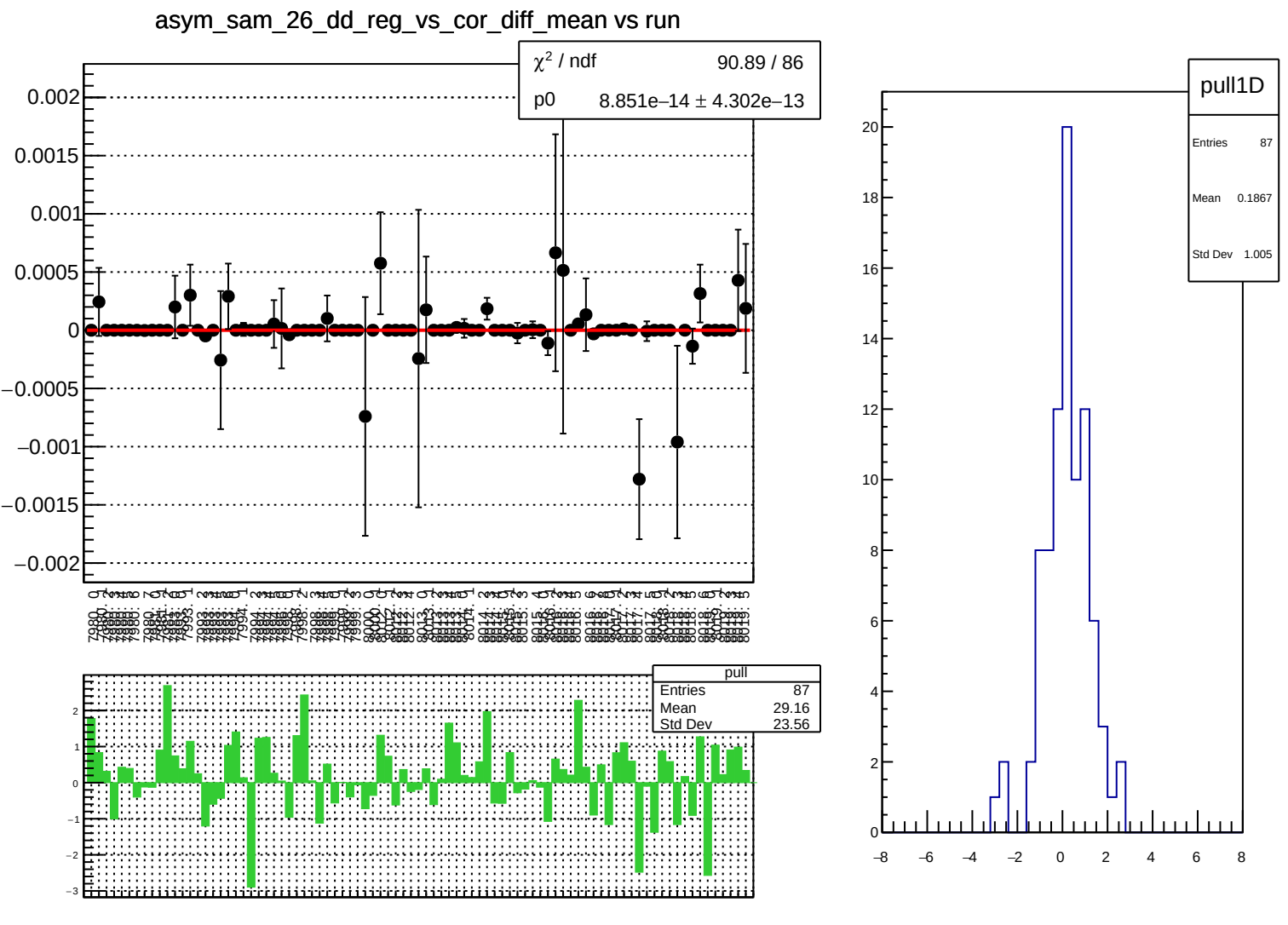

pull1D
Entries 87
Mean 0.009128
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

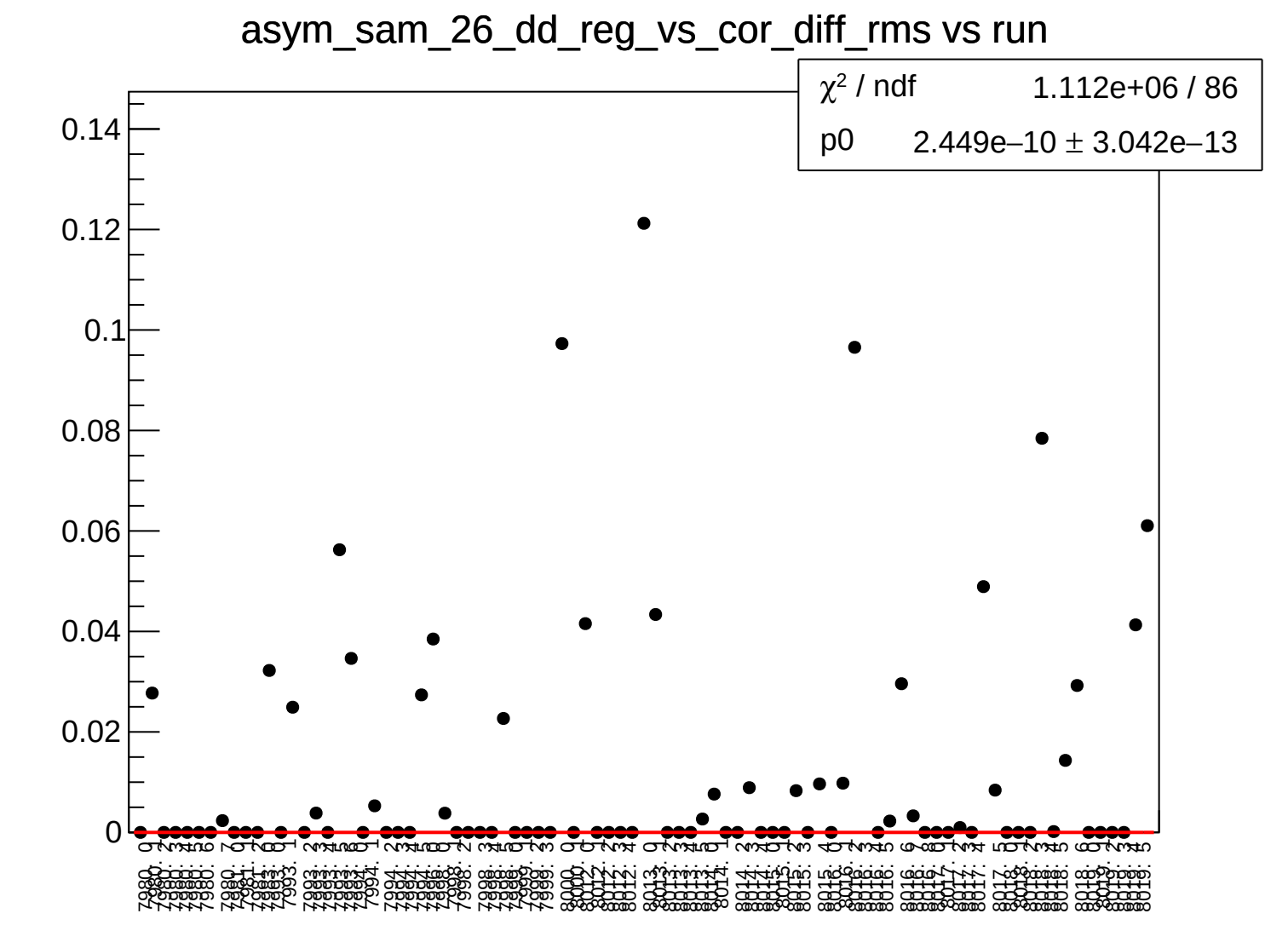

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.865e+04 / 86
p0 3053 ± 2.313
4000
3800
3600
3400
3200
3000
2800
2600
2400

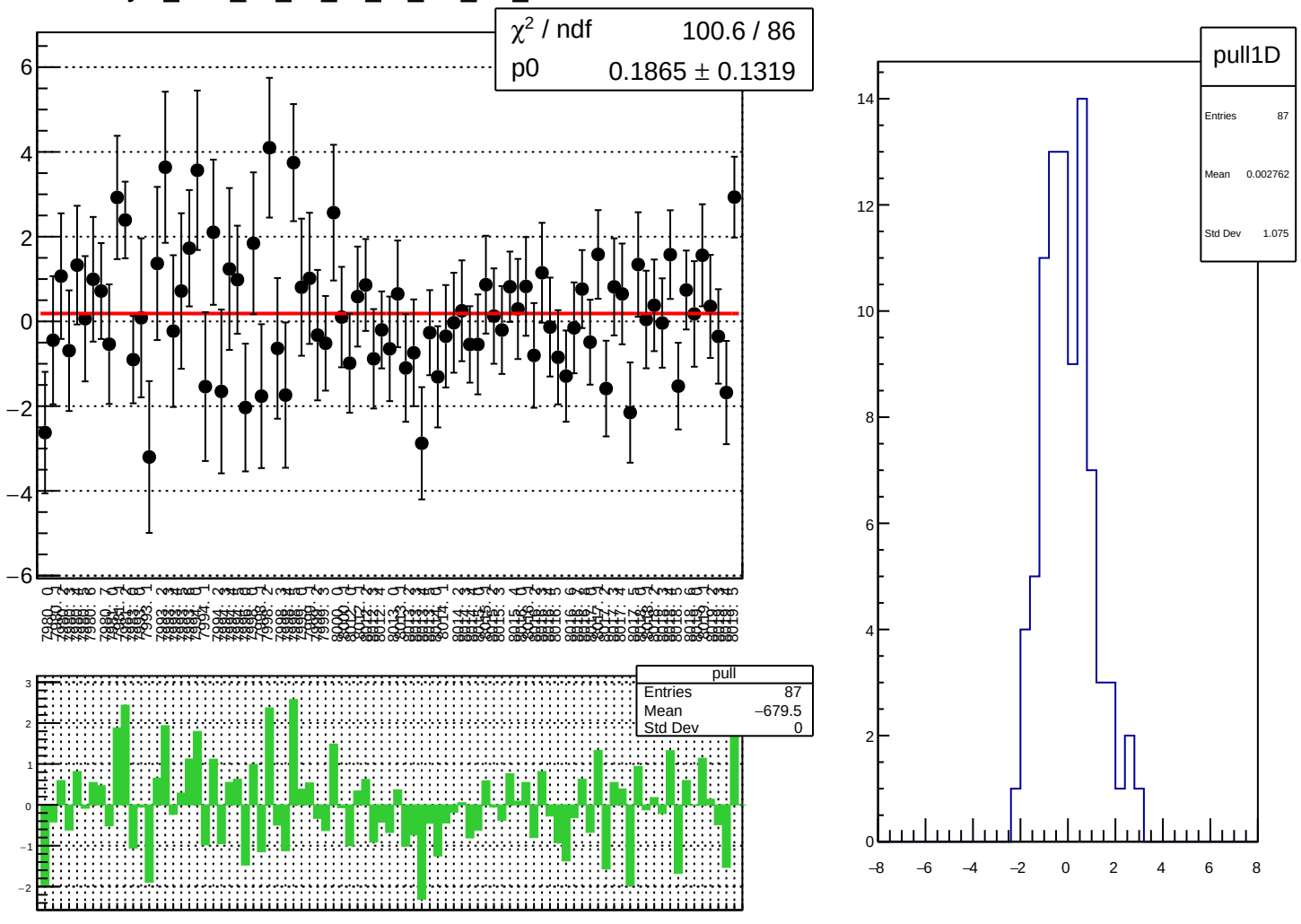

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 106.5 / 86
p0 −4280 ± 3224
100
50
0
−50
−100
pull
Entries 87
Mean 192.3
Std Dev 0
3
2
1
0
−1
−2

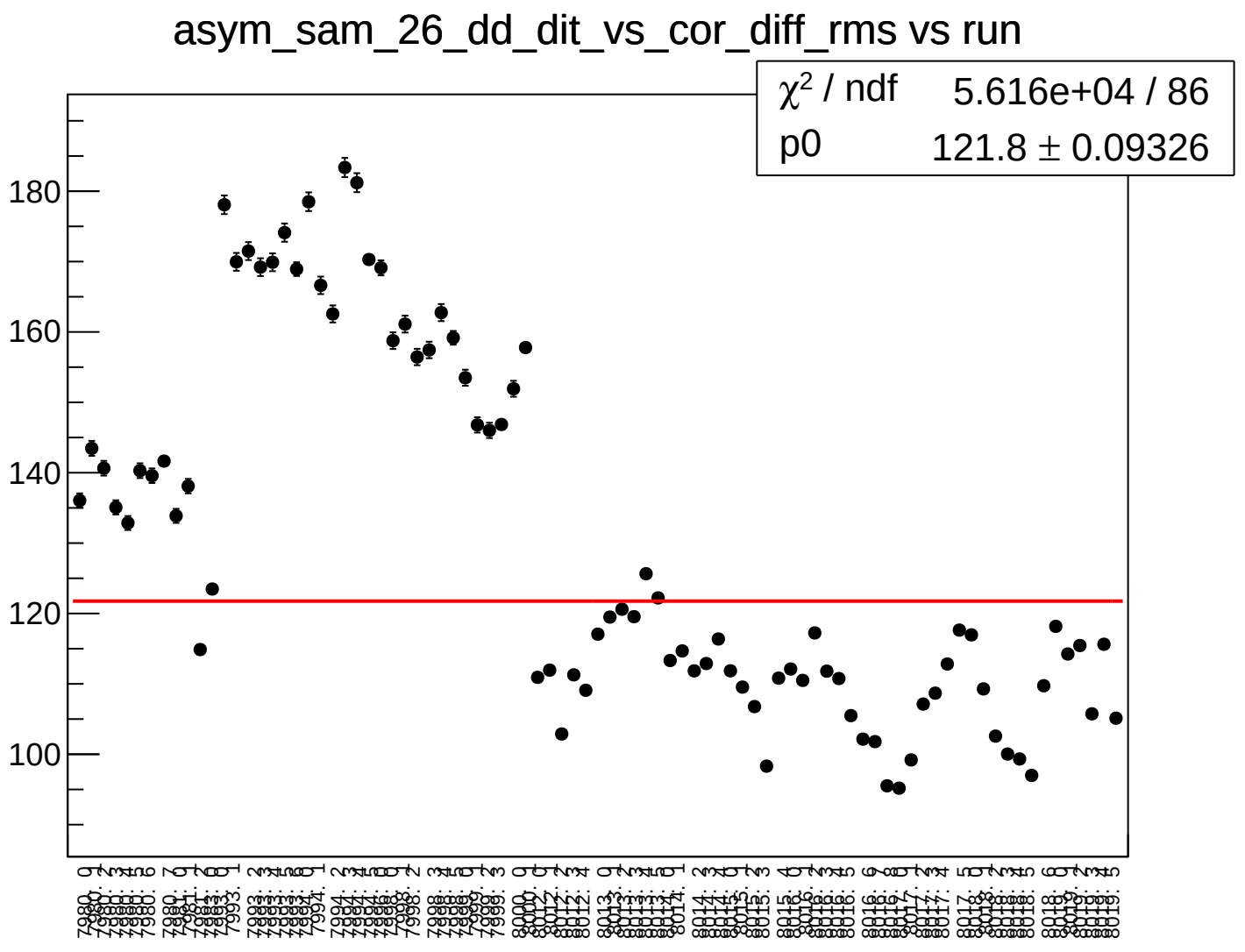

pull1D
Entries 87
Mean −0.006586
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

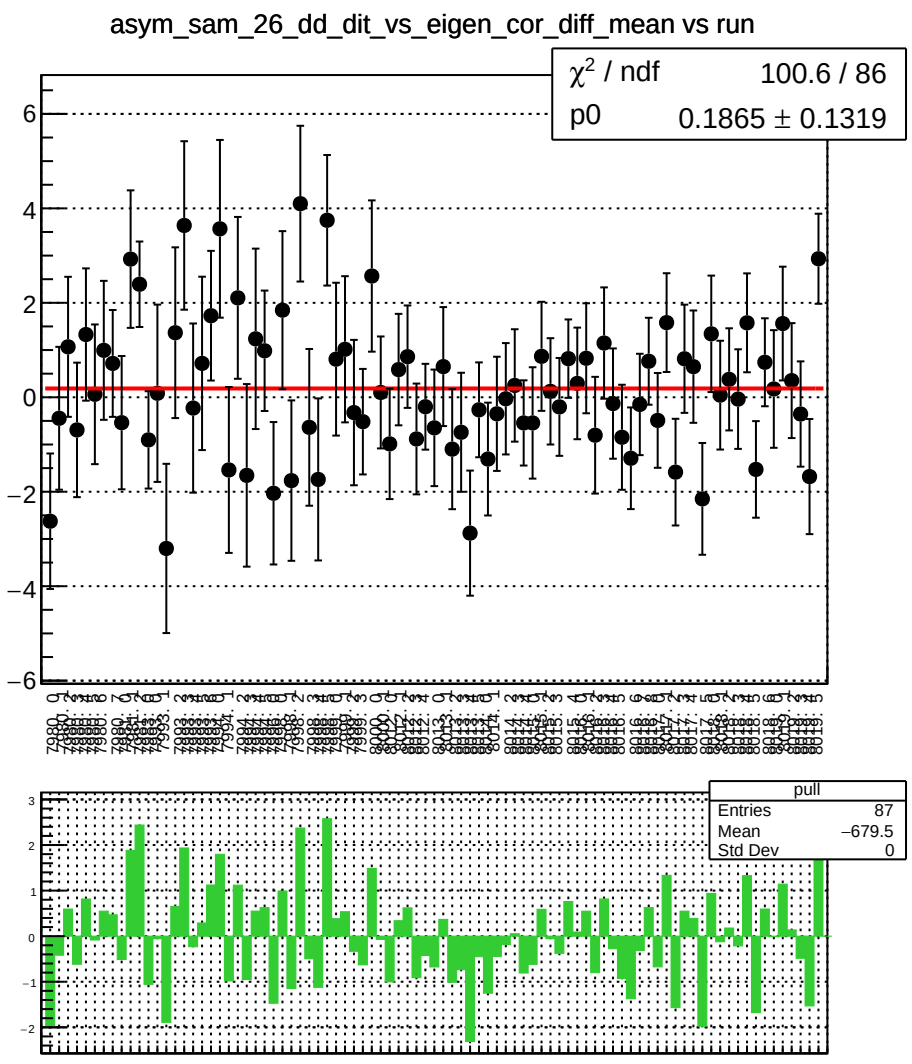

asym_sam_26_dd_rms vs run
χ² / ndf 1.877e+04 / 86
p0 3009 ± 2.279
4000
3800
3600
3400
3200
3000
2800
2600
2400

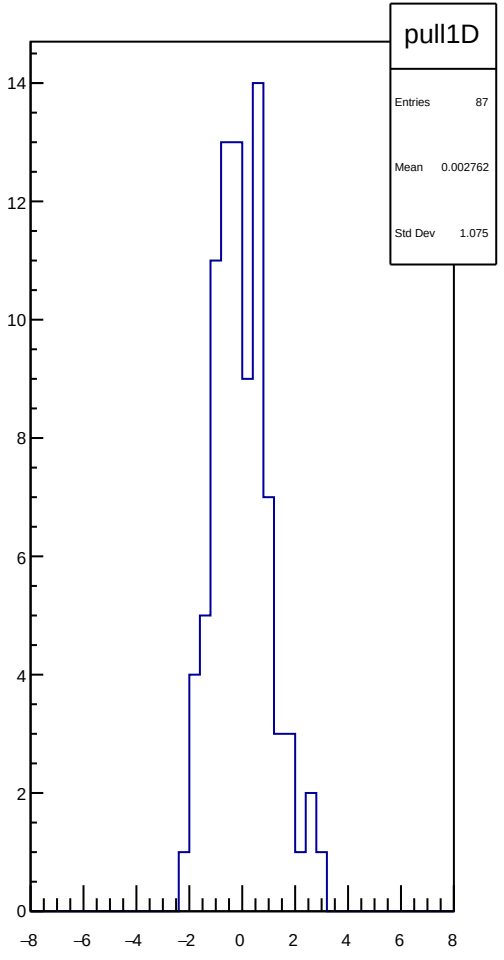

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.89 / 86
p0 8.851e−14 ± 4.302e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 87
Mean 29.16
Std Dev 23.56
pull1D
Entries 87
Mean 0.1867
Std Dev 1.005
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

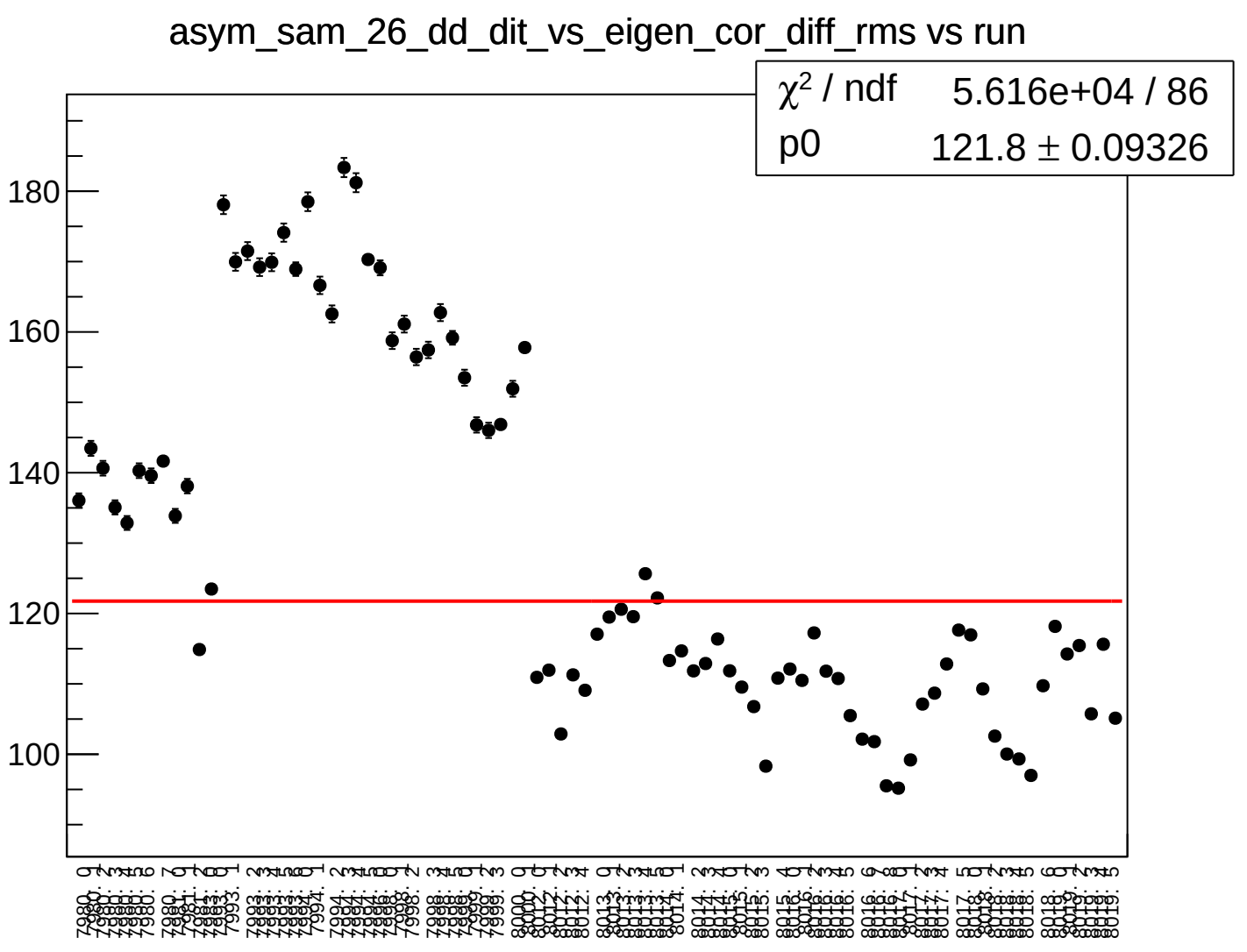

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.112e+06 / 86
p0 2.449e−10 ± 3.042e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

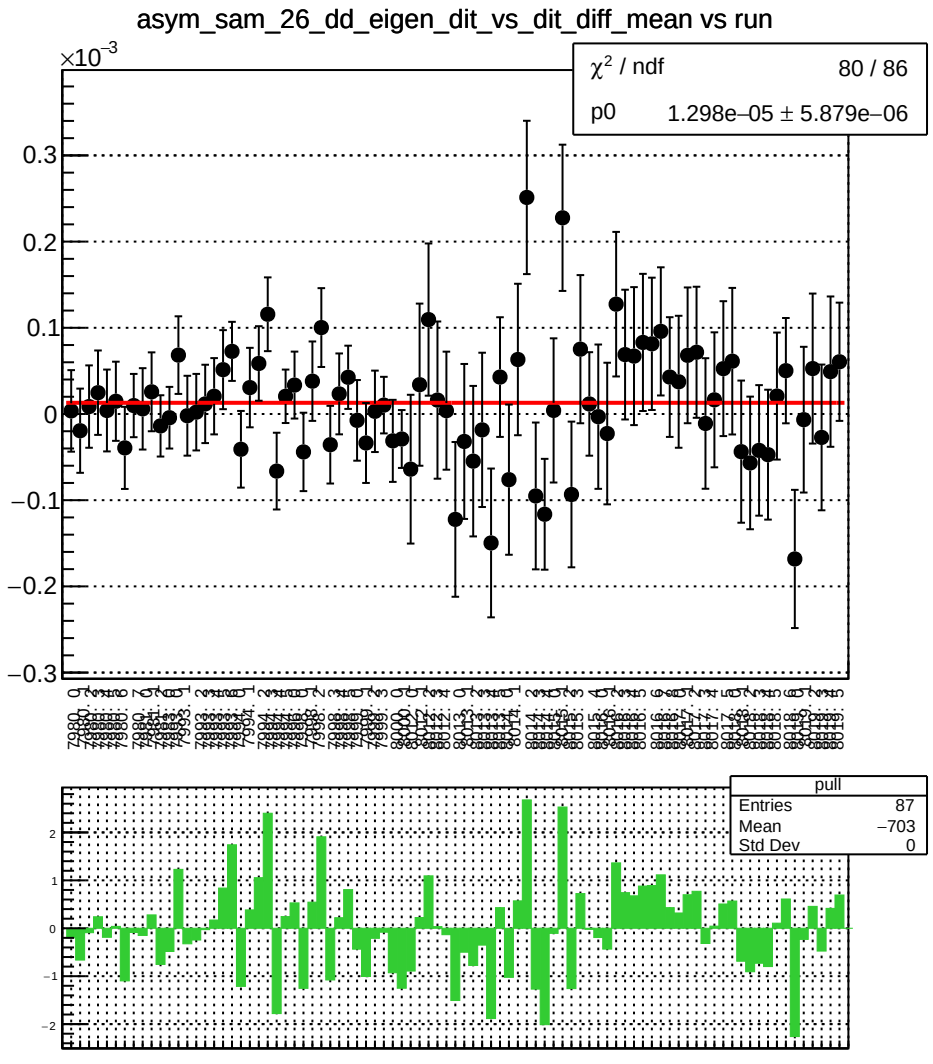

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 86
p0 0.1865 ± 0.1319
pull
Entries 87
Mean −679.5
Std Dev 0
pull1D
Entries 87
Mean 0.002762
Std Dev 1.075

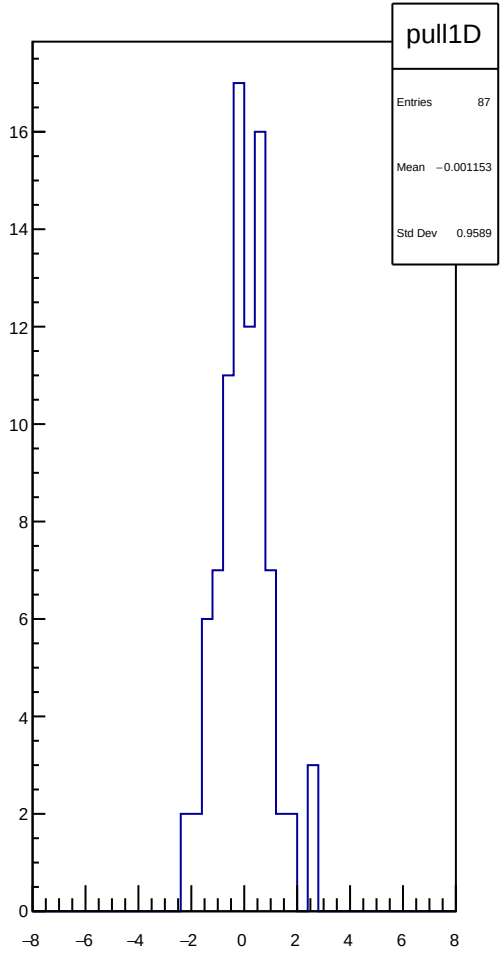

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.616e+04 / 86
p0 121.8 ± 0.09326
180
160
140
120
100

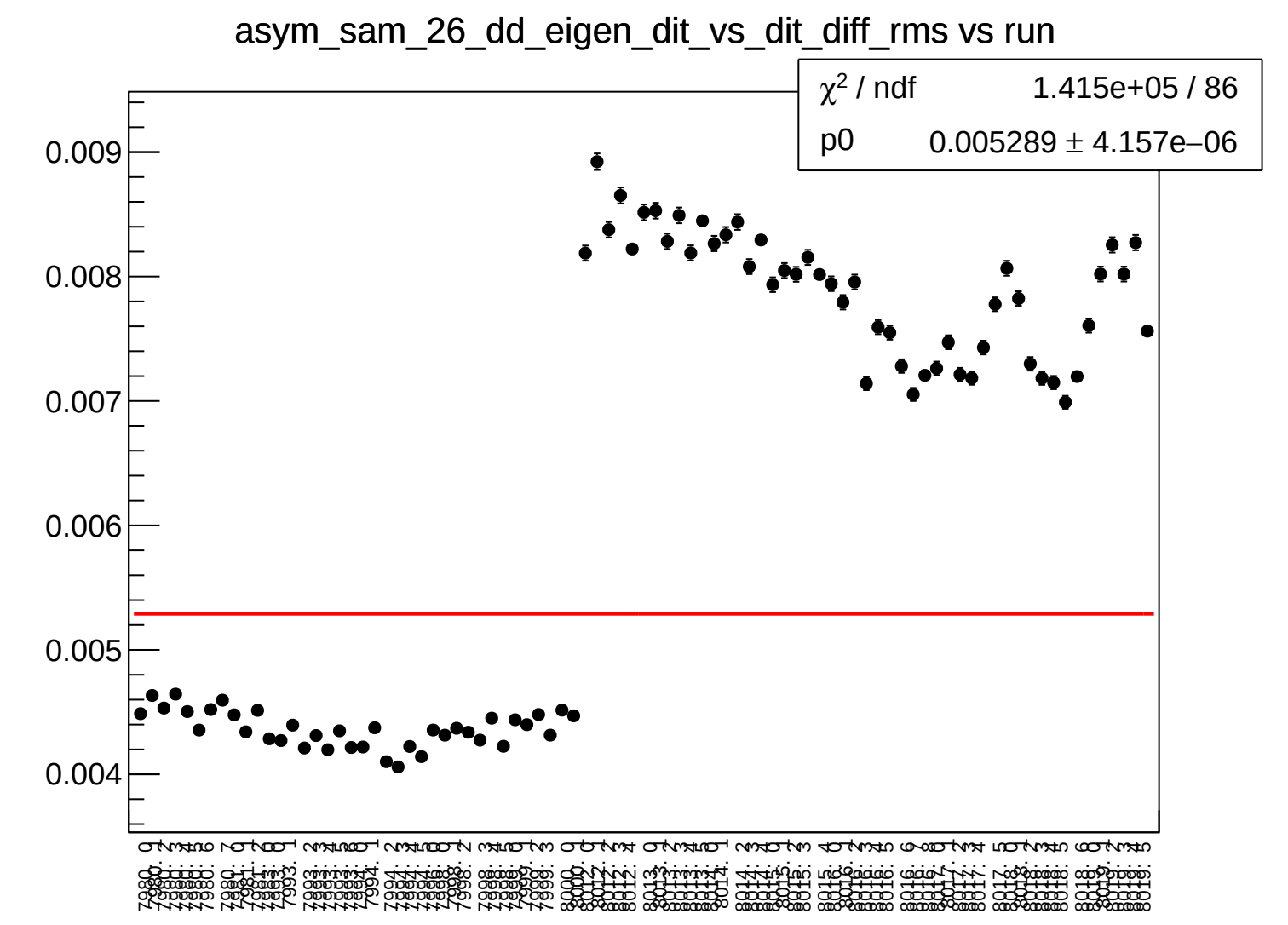

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.6 / 86
p0 0.1865 ± 0.1319
pull
Entries 87
Mean −679.5
Std Dev 0

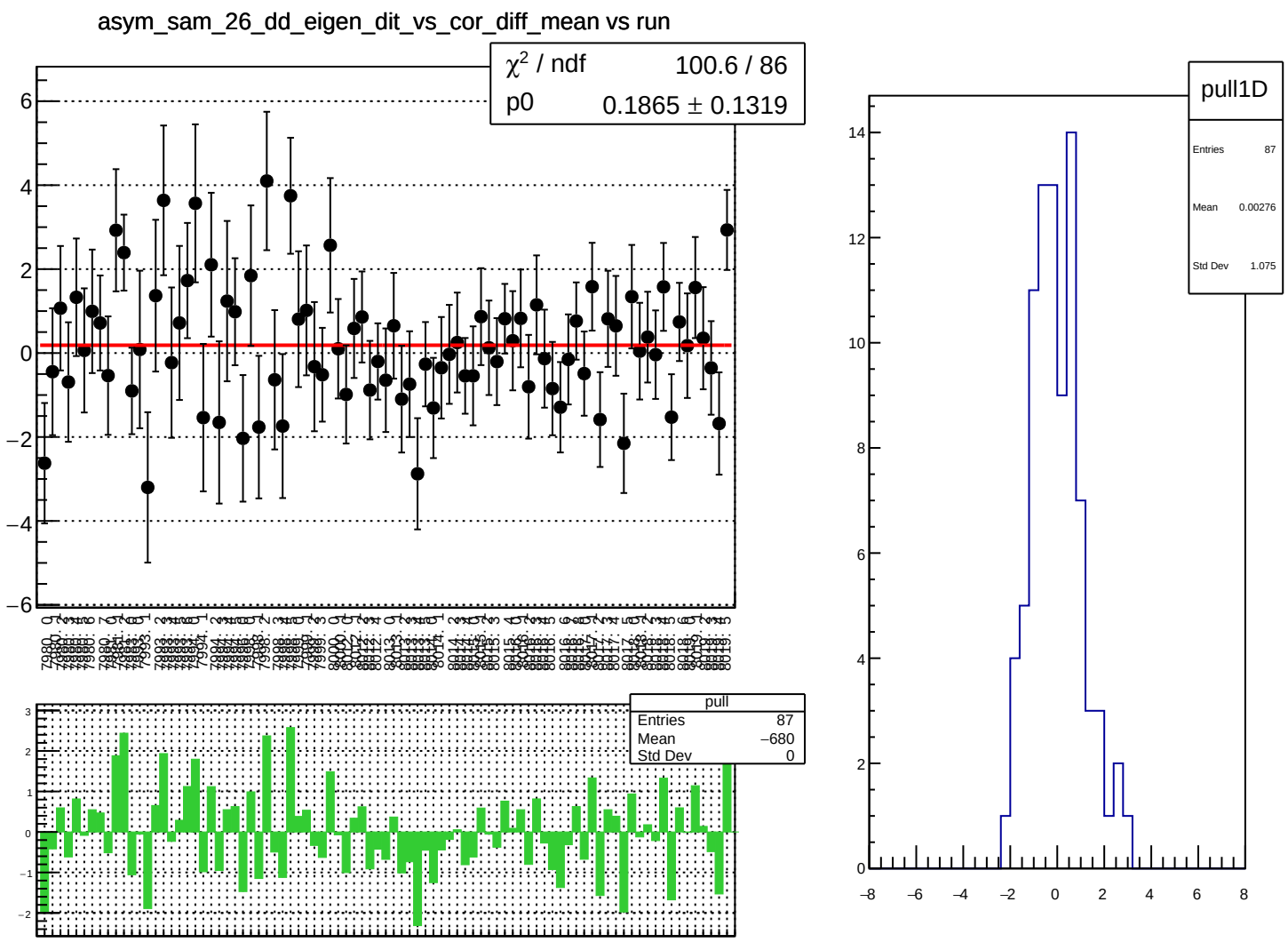

pull1D
Entries 87
Mean 0.002762
Std Dev 1.075

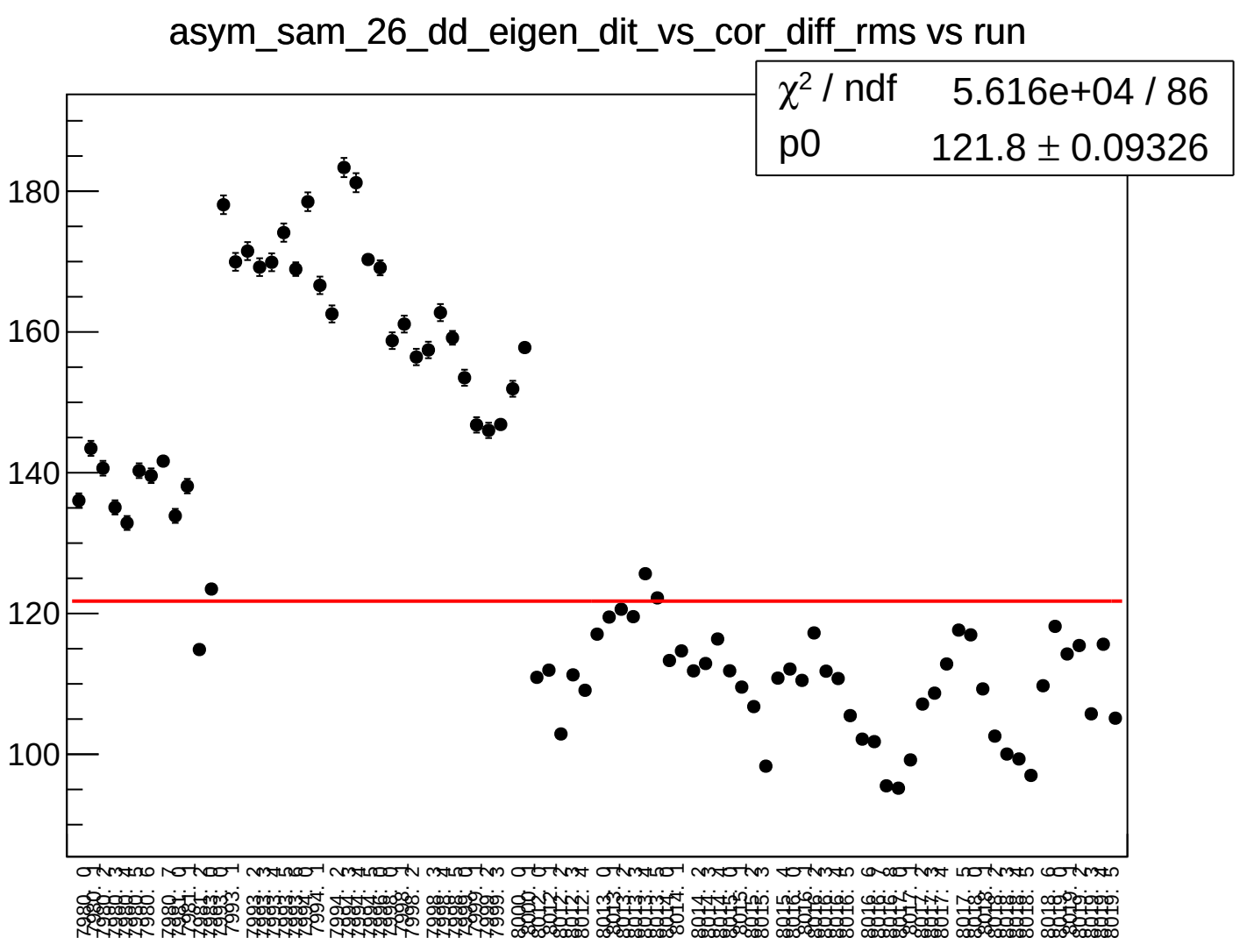

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.616e+04 / 86
p0 121.8 ± 0.09326
180
160
140
120
100

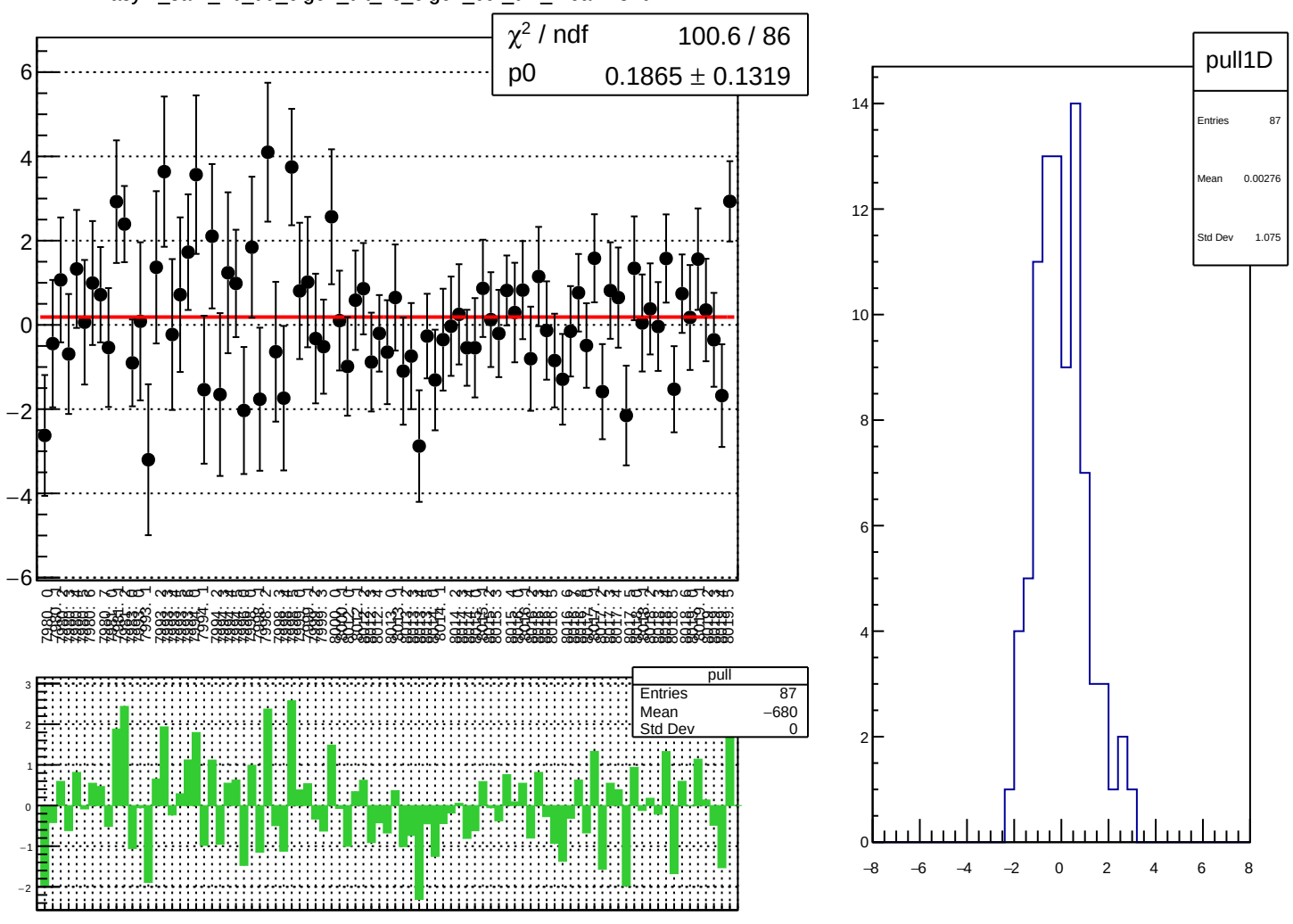

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 80 / 86
p0 1.298e−05 ± 5.879e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 87
Mean −703
Std Dev 0
2
1
0
−1
−2

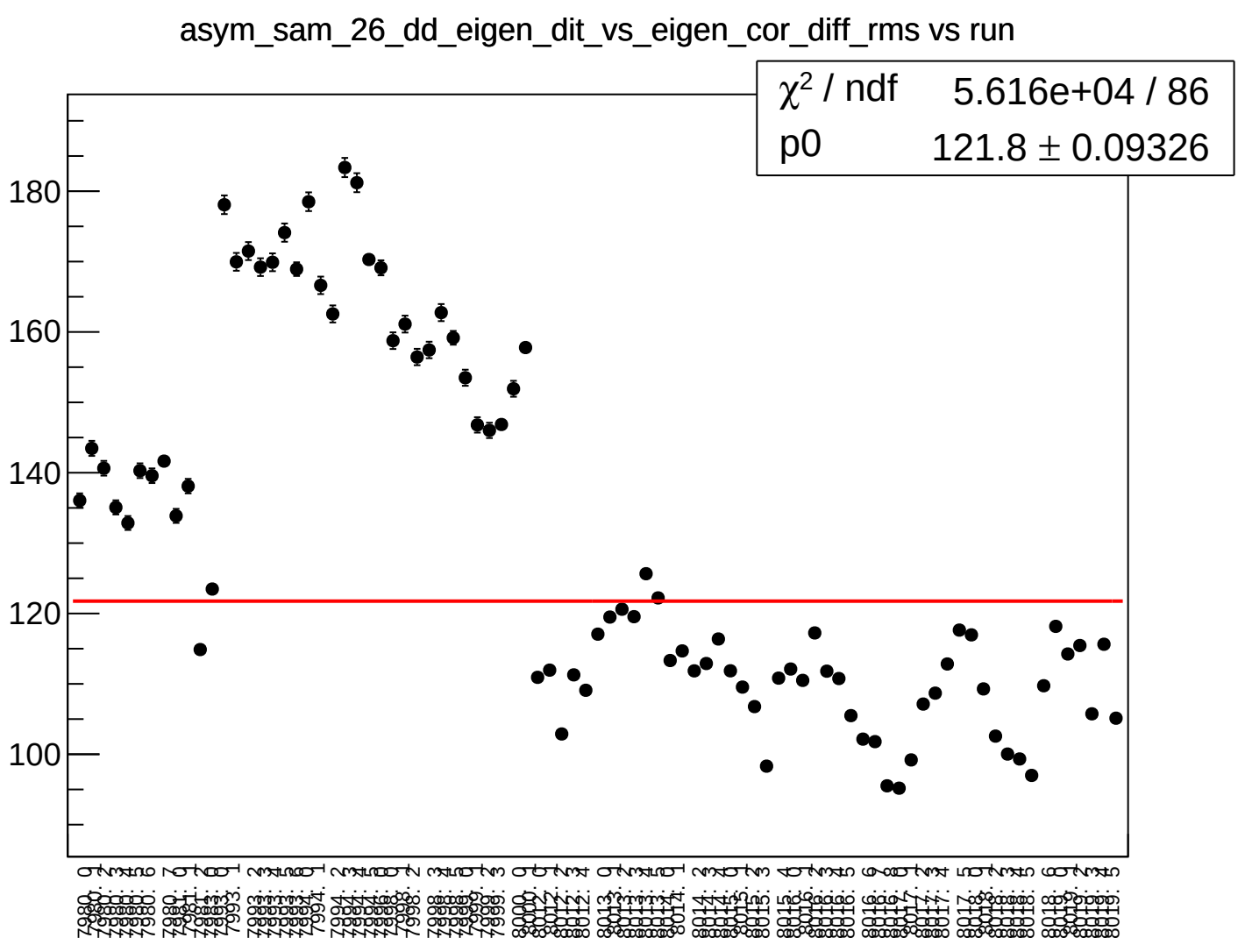

pull1D
Entries 87
Mean −0.001153
Std Dev 0.9589
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

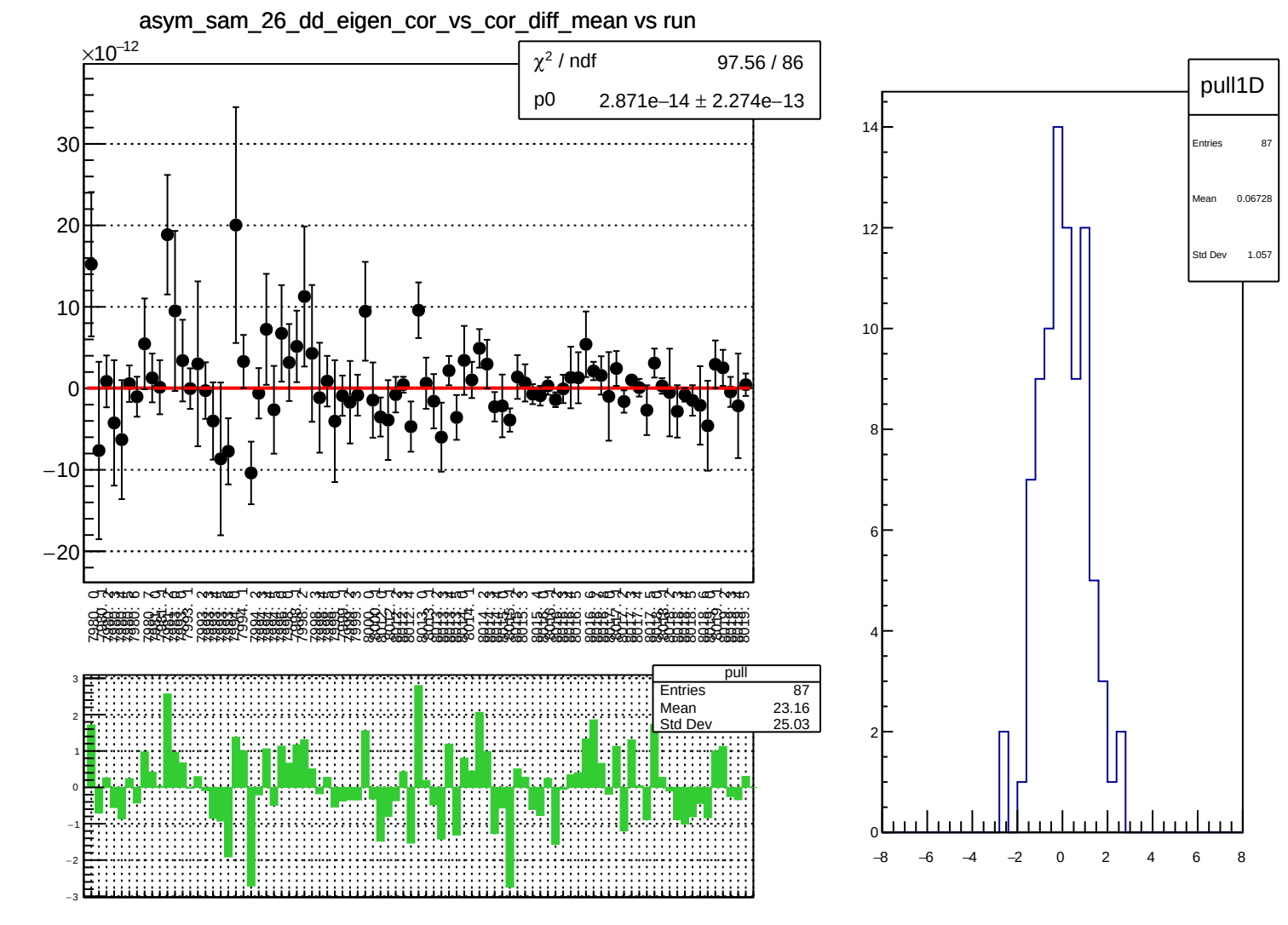

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.415e+05 / 86
p0 0.005289 ± 4.157e−06
0.009
0.008
0.007
0.006
0.005
0.004

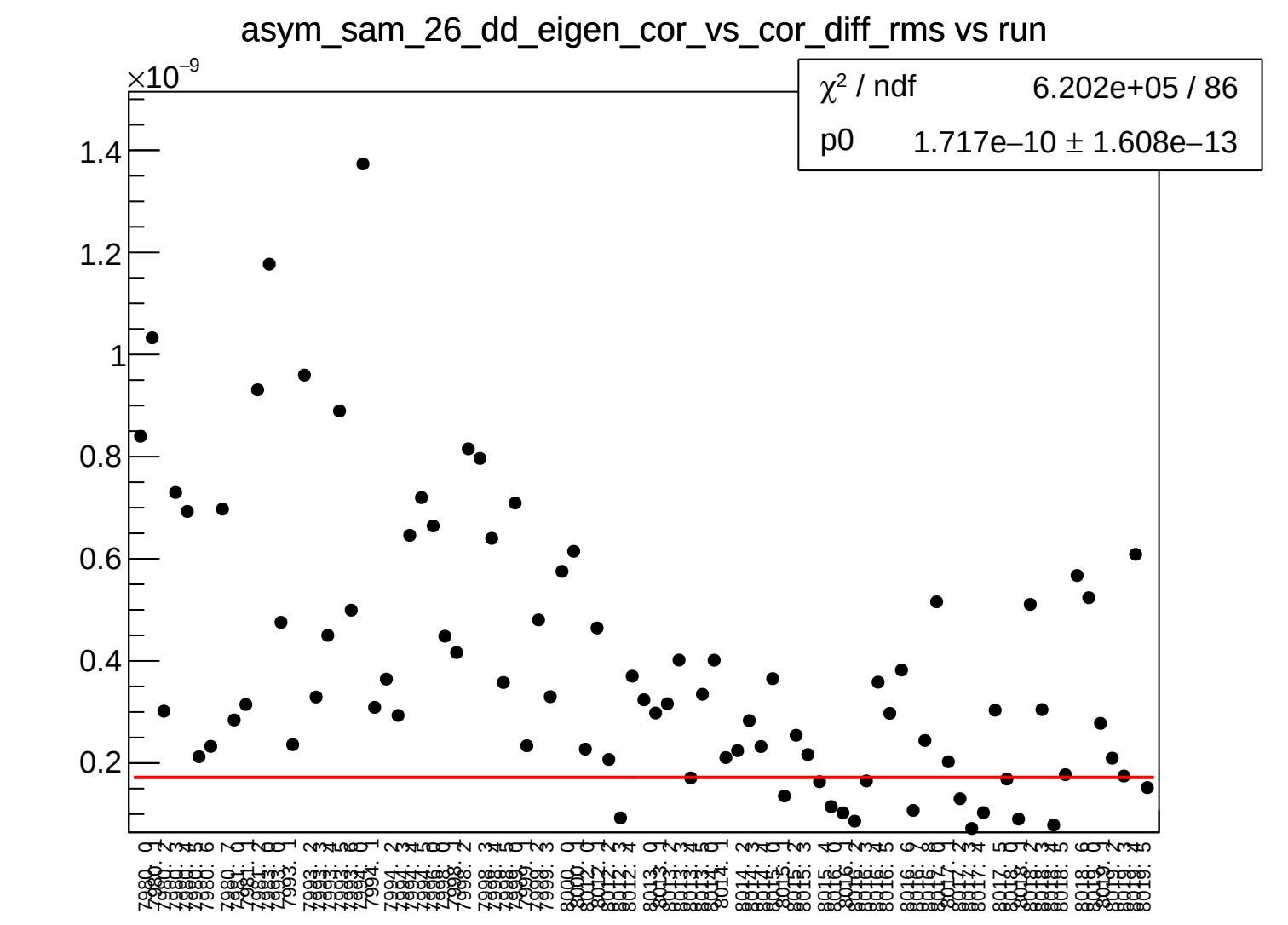

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 86
p0 0.1865 ± 0.1319
pull
Entries 87
Mean −680
Std Dev 0
pull1D
Entries 87
Mean 0.00276
Std Dev 1.075

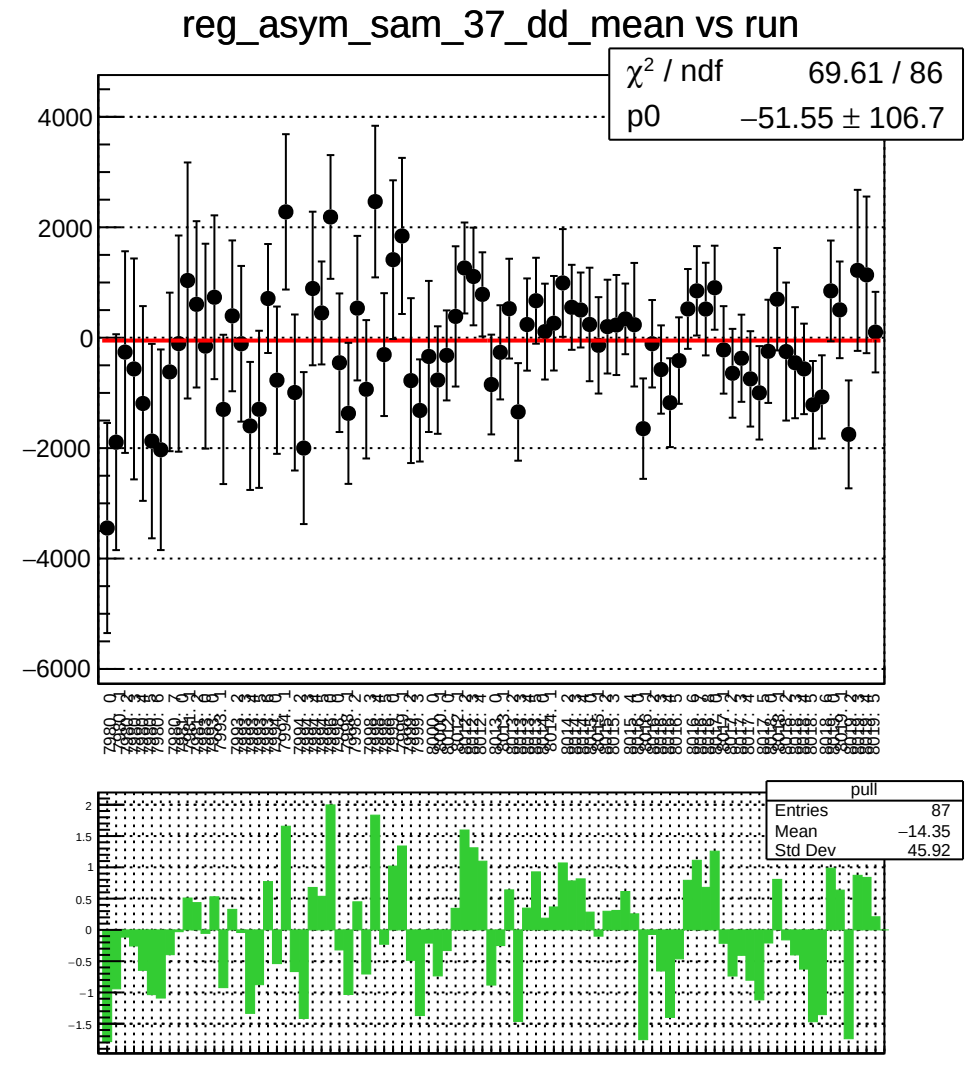

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.616e+04 / 86
p0 121.8 ± 0.09326
180
160
140
120
100

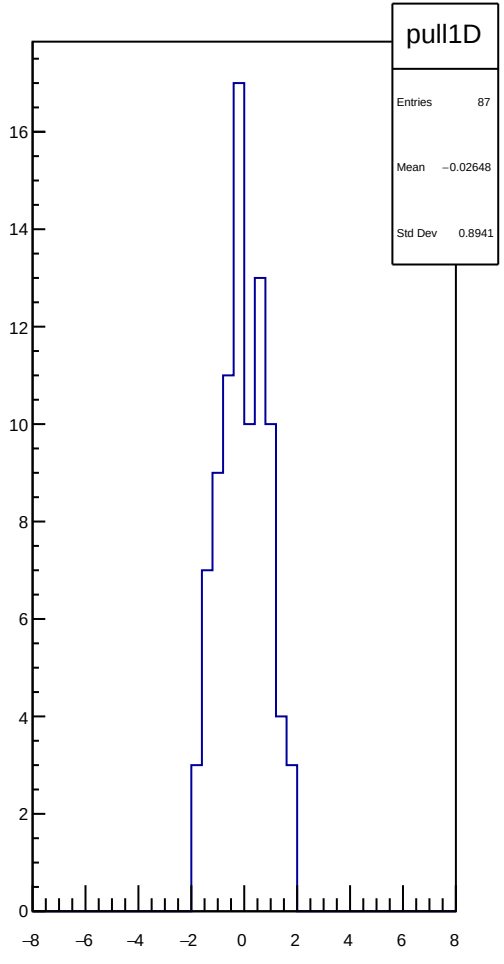

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.6 / 86
p0 0.1865 ± 0.1319
pull
Entries 87
Mean −680
Std Dev 0
pull1D
Entries 87
Mean 0.00276
Std Dev 1.075

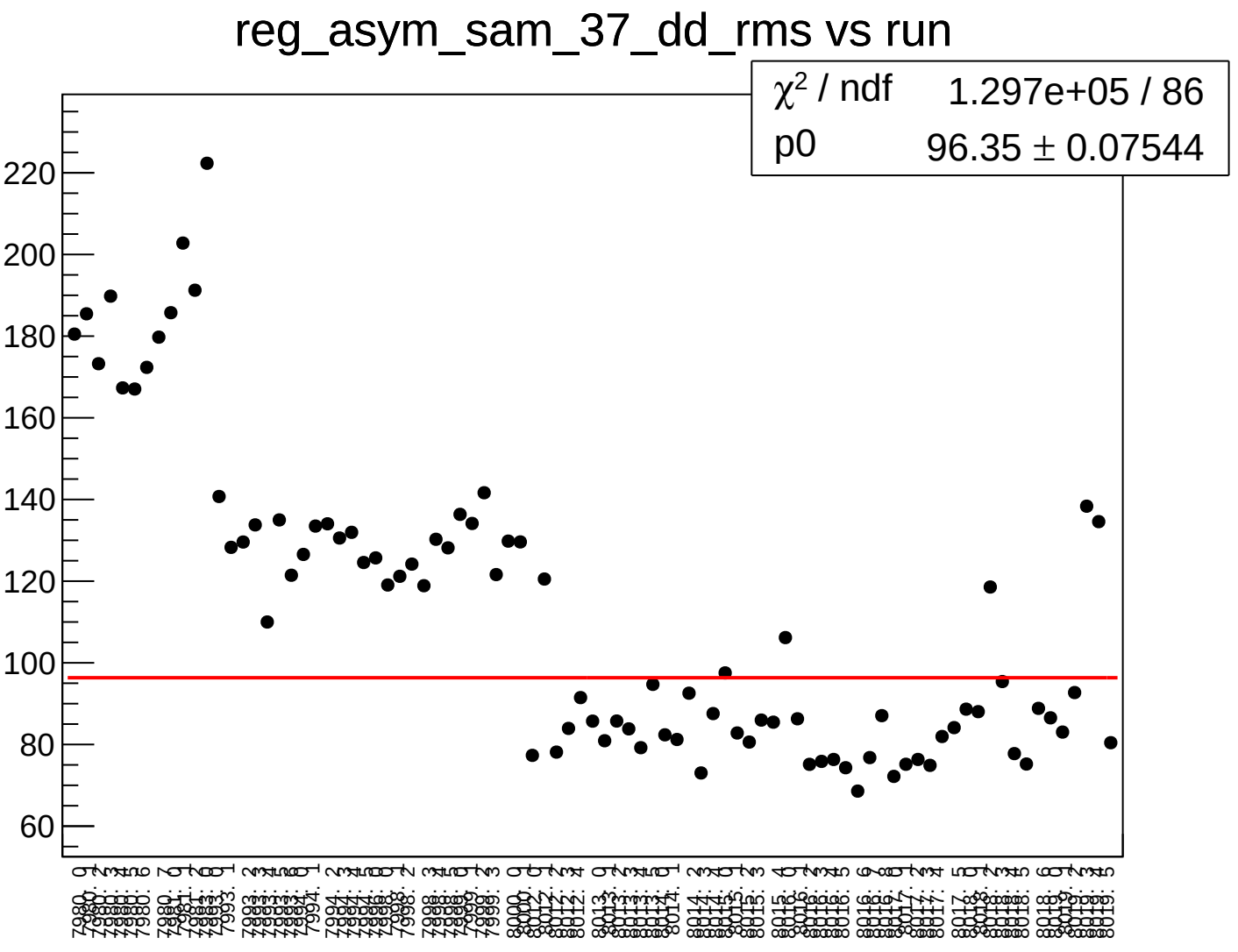

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.616e+04 / 86
p0 121.8 ± 0.09326
180
160
140
120
100

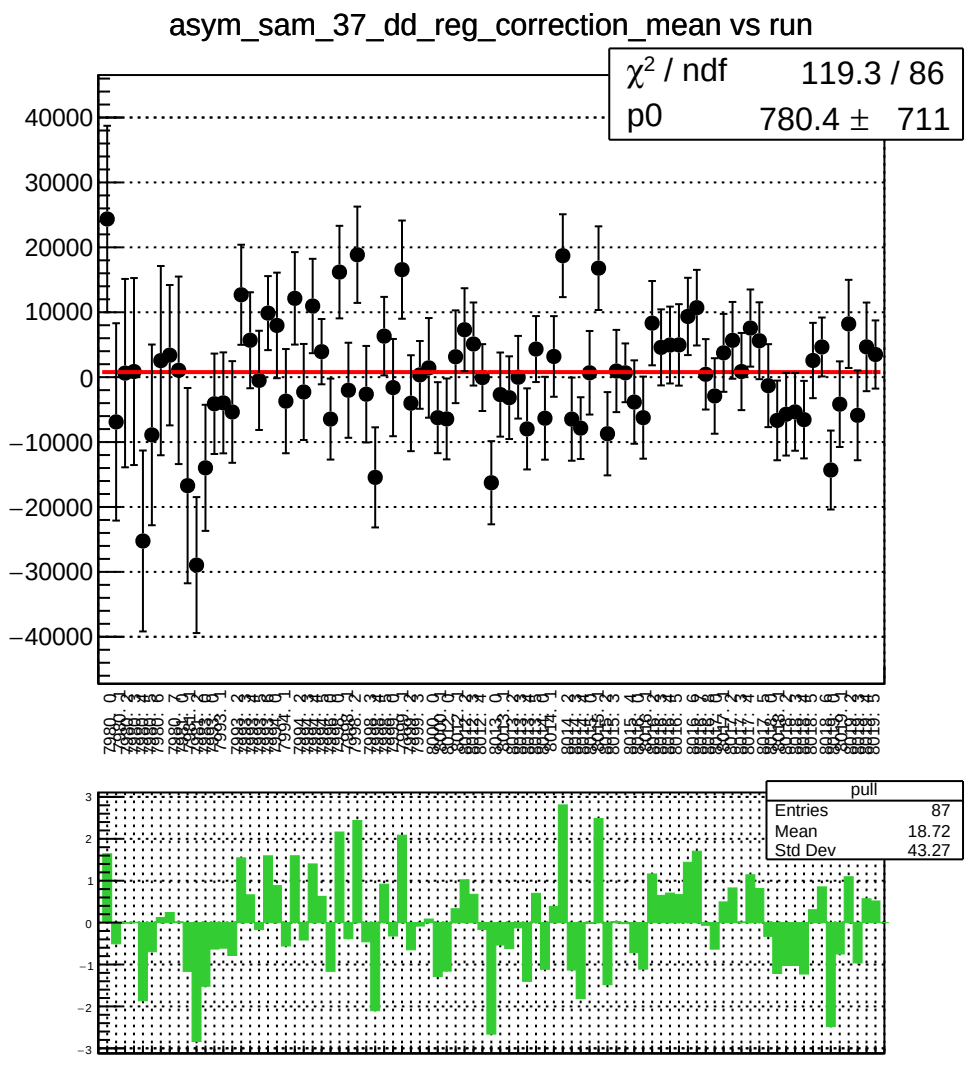

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.56 / 86
p0 2.871e−14 ± 2.274e−13
30
20
10
0
−10
−20
pull
Entries 87
Mean 23.16
Std Dev 25.03
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.06728
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

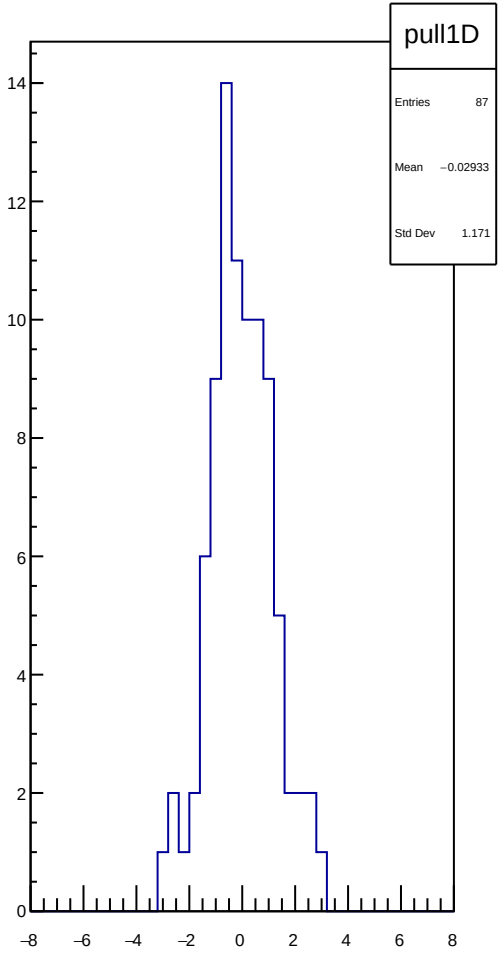

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.202e+05 / 86
p0 1.717e−10 ± 1.608e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

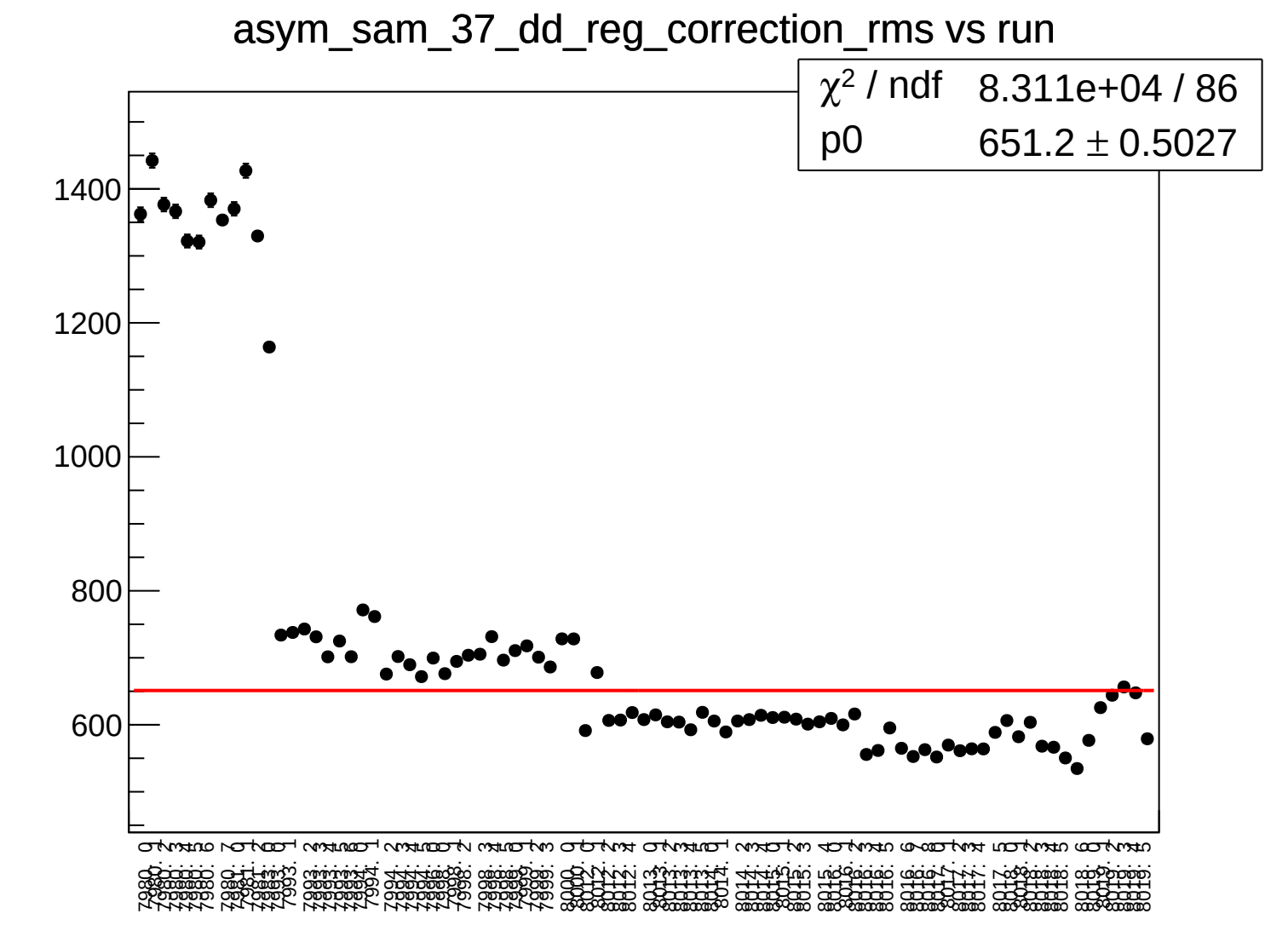

reg_asym_sam_37_dd_mean vs run
χ² / ndf 69.61 / 86
p0 −51.55 ± 106.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −14.35
Std Dev 45.92
2
1.5
1
0.5
0
−0.5
−1
−1.5

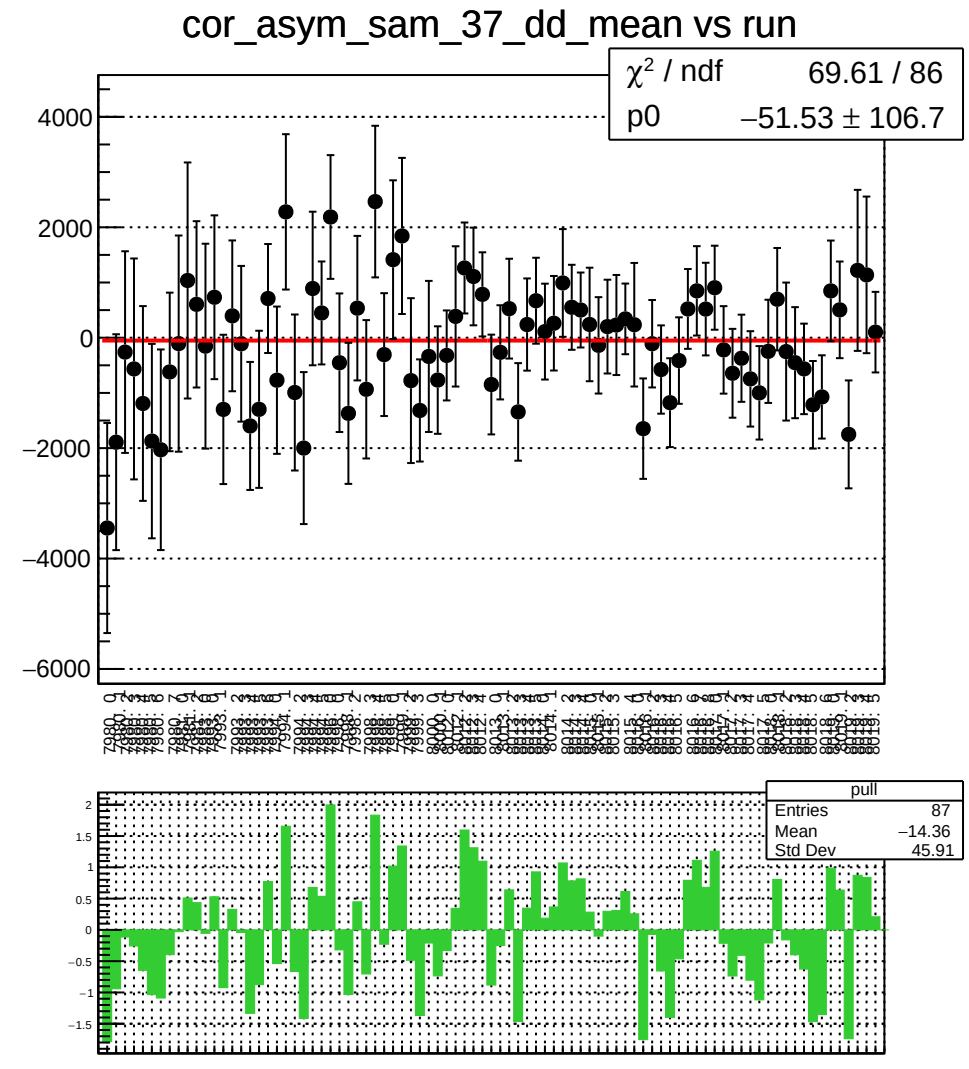

pull1D
Entries 87
Mean −0.02648
Std Dev 0.8941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

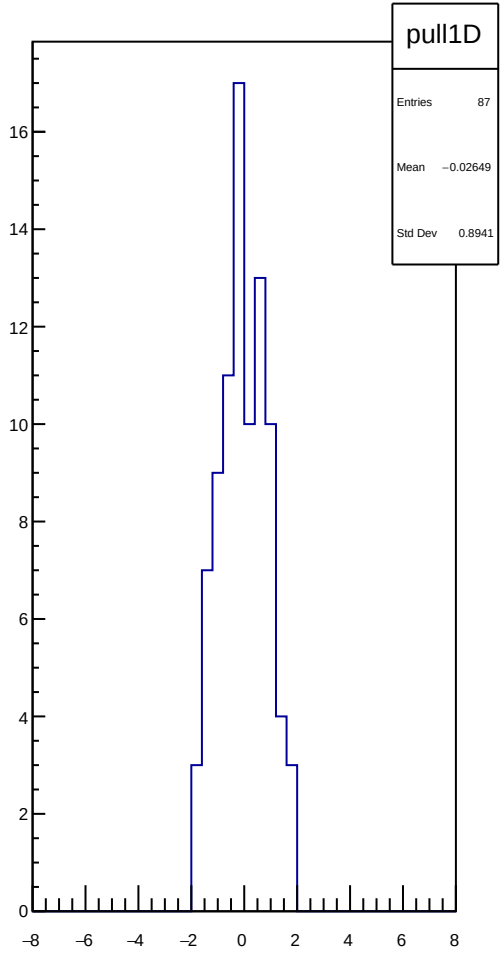

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.297e+05 / 86
p0 96.35 ± 0.07544
220
200
180
160
140
120
100
80
60

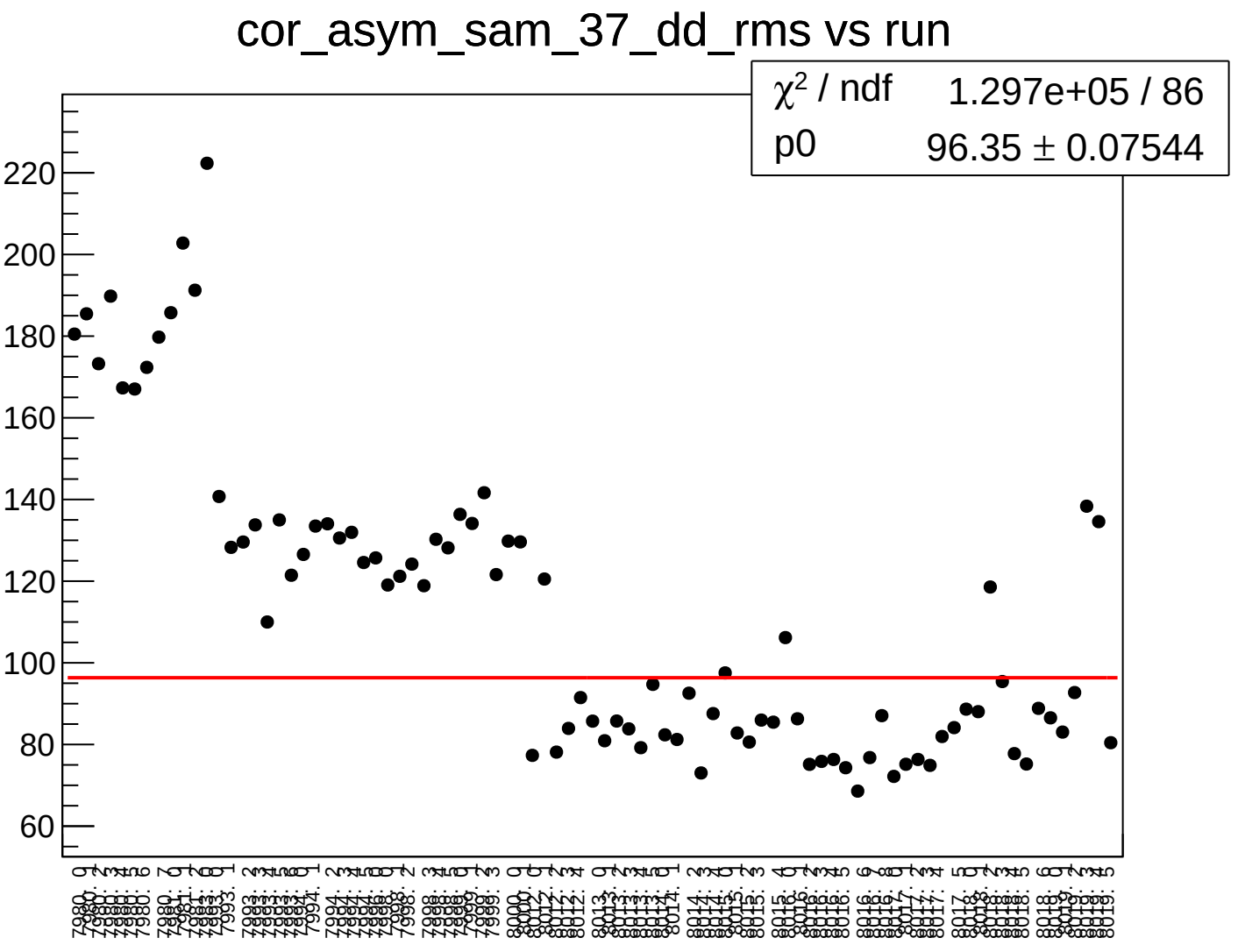

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 119.3 / 86
p0 780.4 ± 711
pull
Entries 87
Mean 18.72
Std Dev 43.27

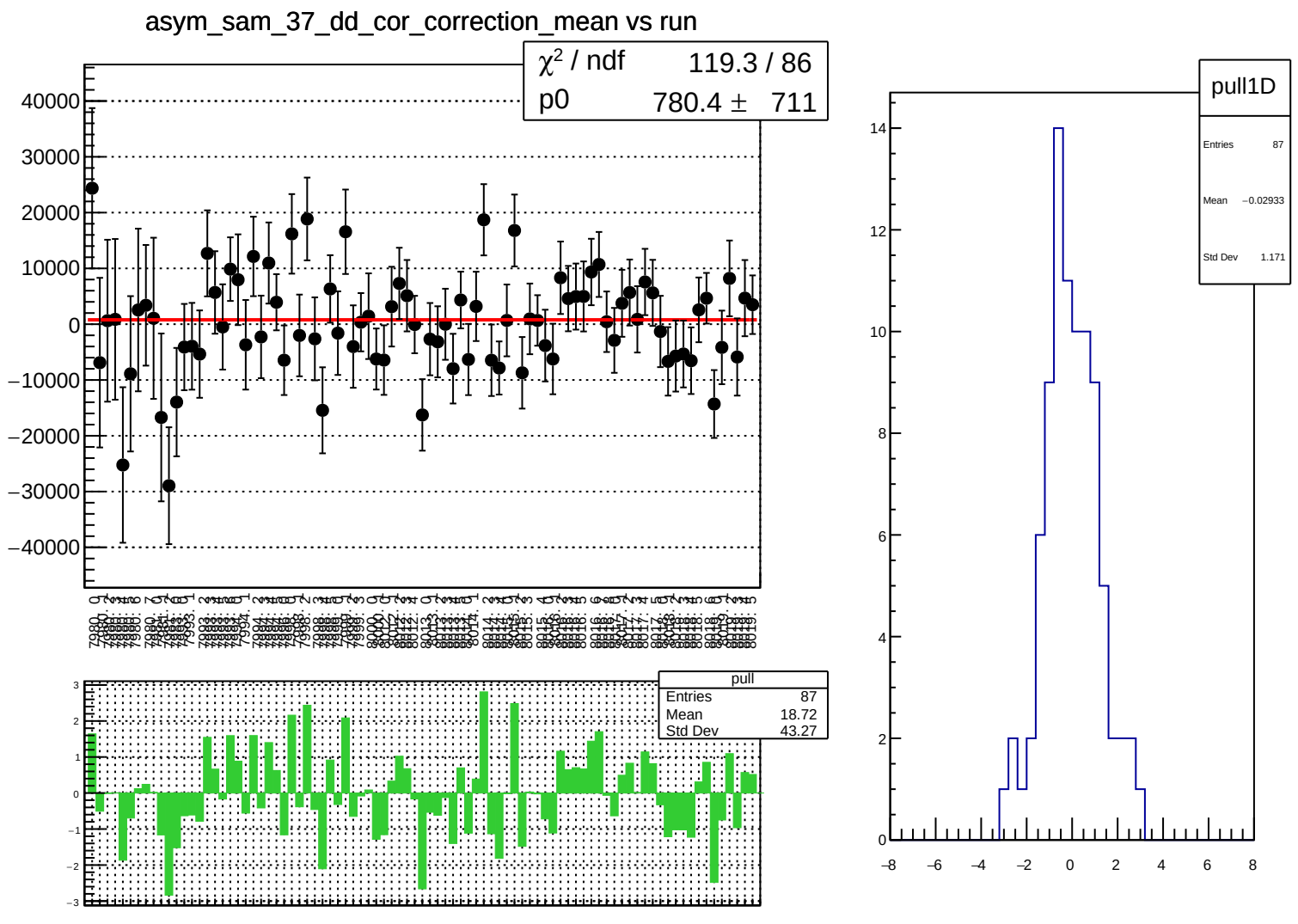

pull1D
Entries 87
Mean −0.02933
Std Dev 1.171

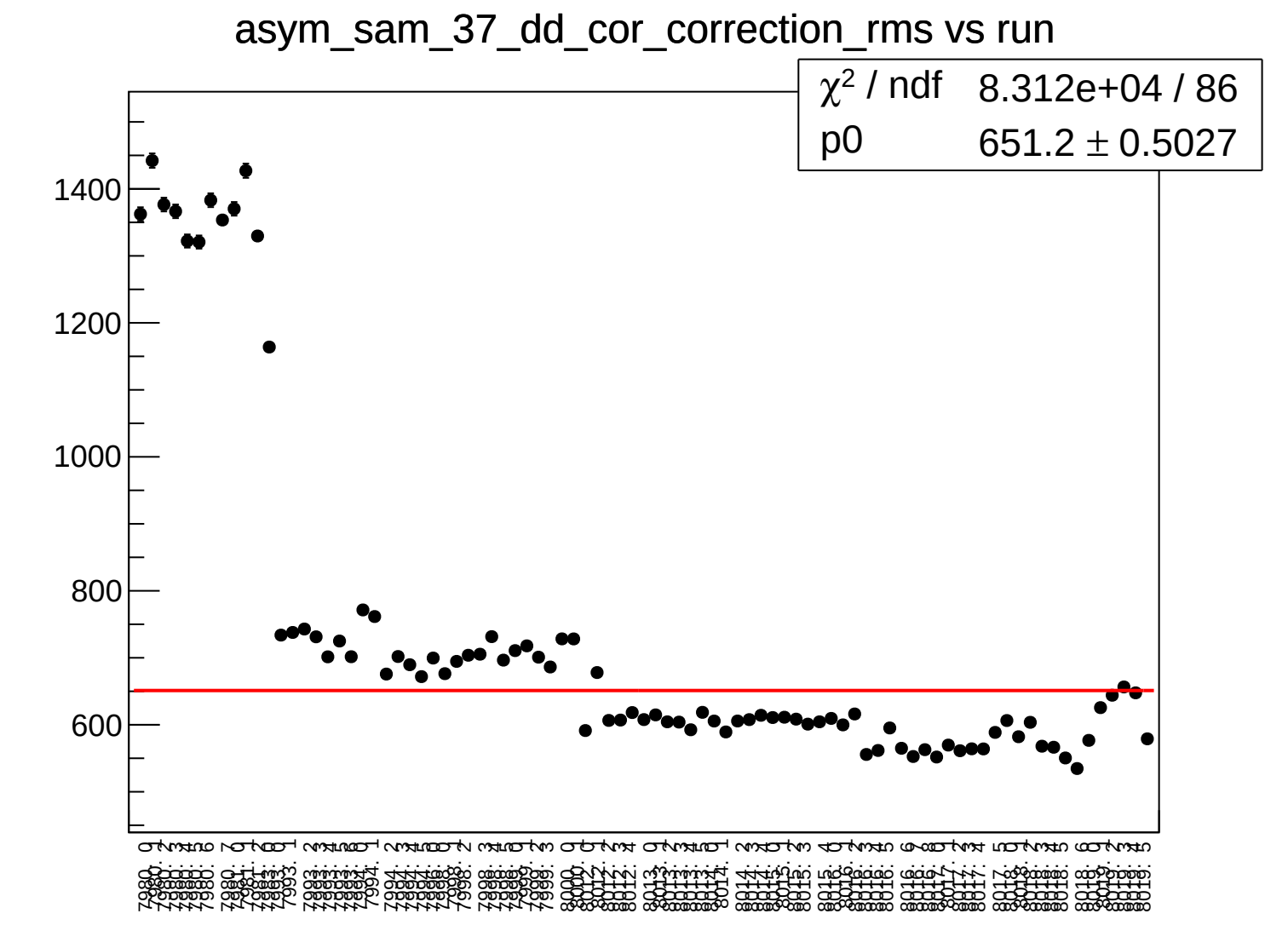

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 8.311e+04 / 86
p0 651.2 ± 0.5027
1400
1200
1000
800
600

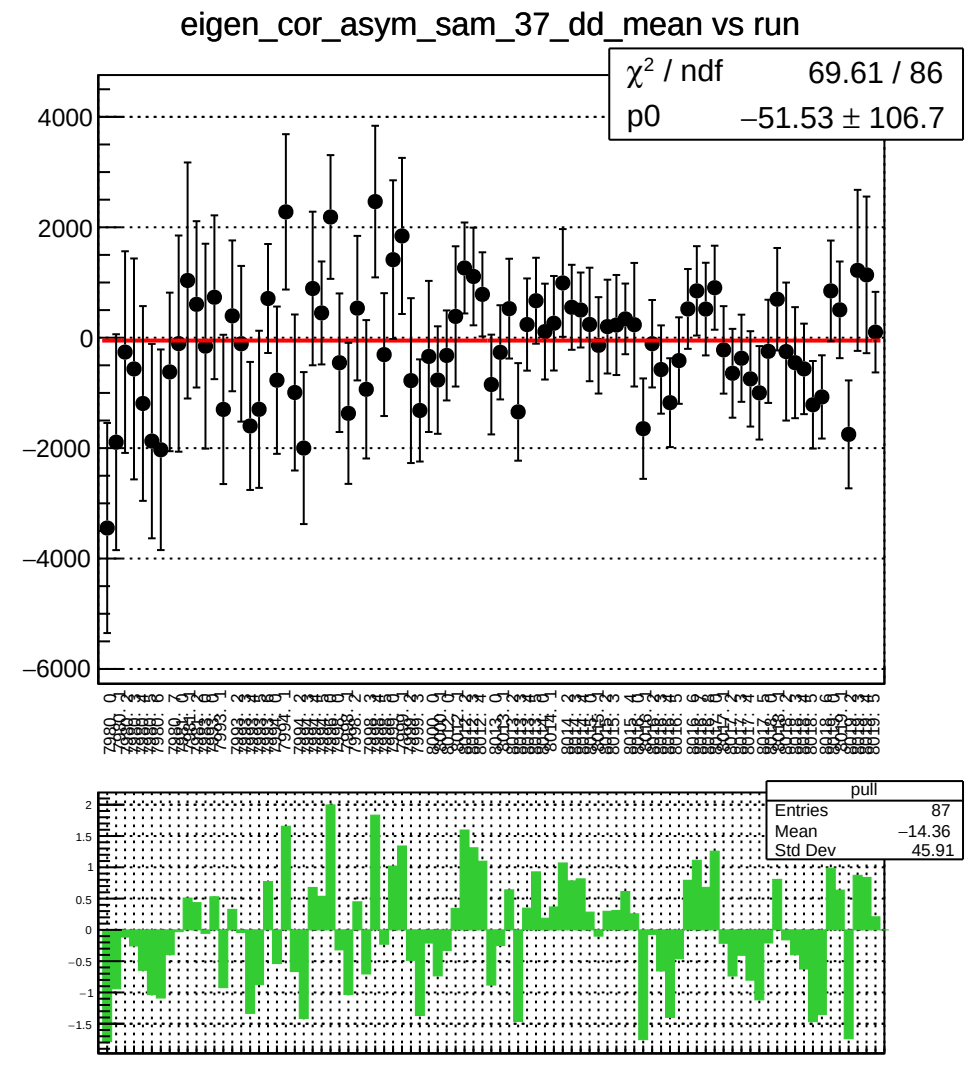

cor_asym_sam_37_dd_mean vs run
χ² / ndf 69.61 / 86
p0 −51.53 ± 106.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −14.36
Std Dev 45.91
2
1.5
1
0.5
0
−0.5
−1
−1.5

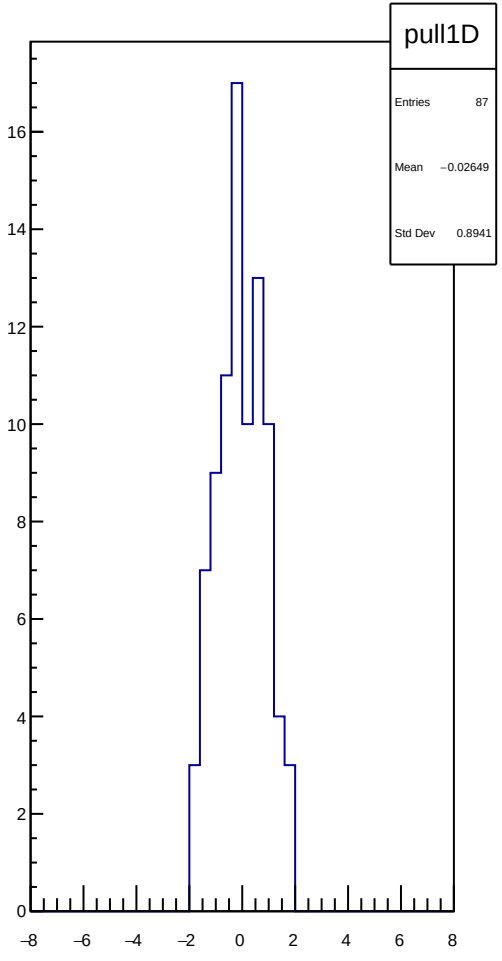

pull1D
Entries 87
Mean −0.02649
Std Dev 0.8941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

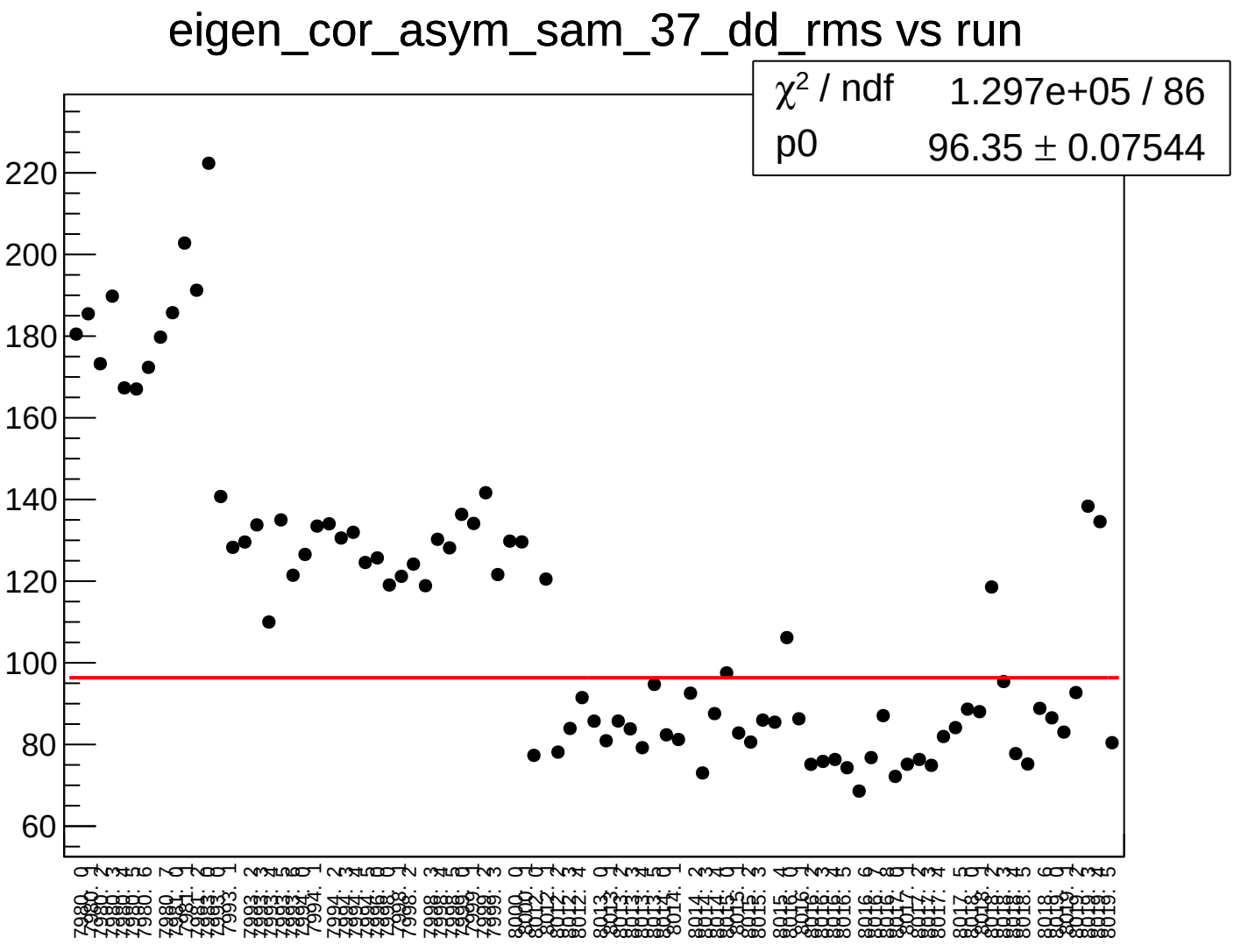

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.297e+05 / 86
p0 96.35 ± 0.07544
220
200
180
160
140
120
100
80
60

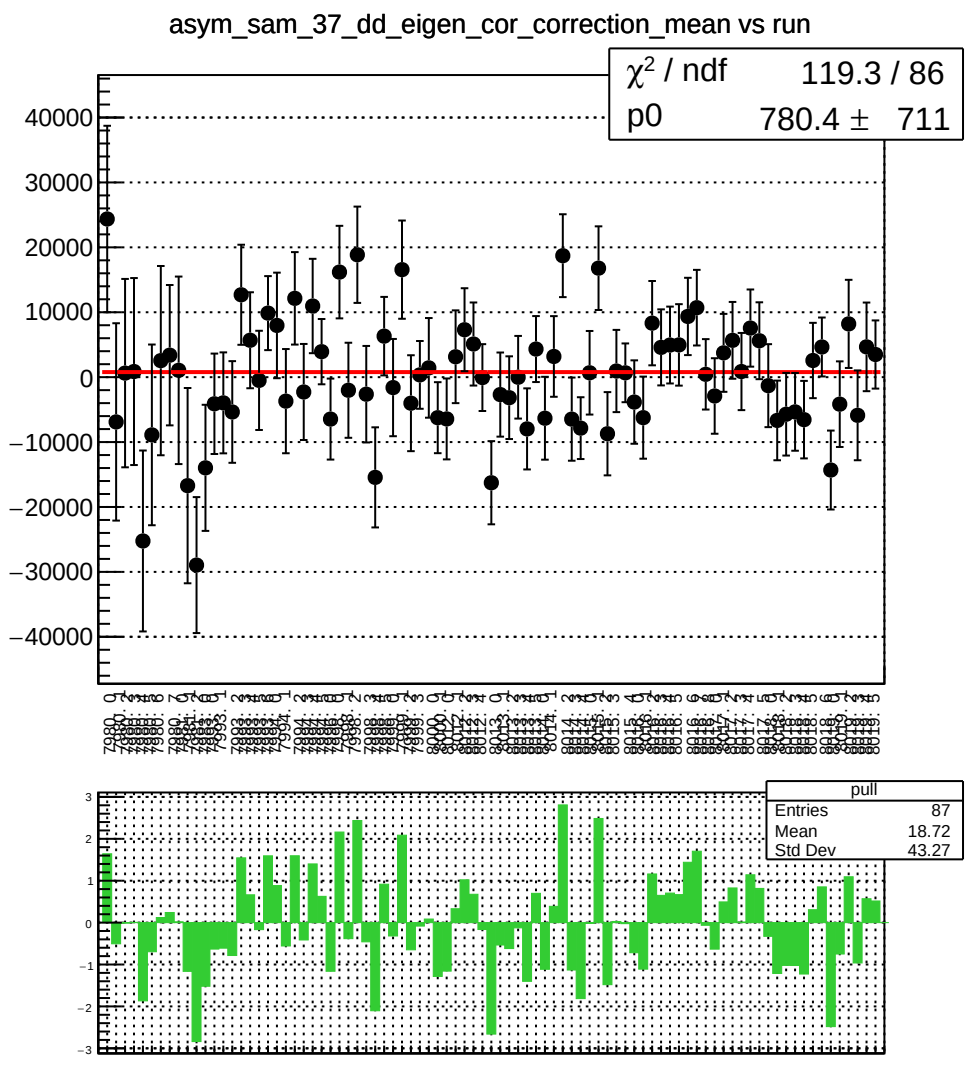

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 119.3 / 86
p0 780.4 ± 711
pull
Entries 87
Mean 18.72
Std Dev 43.27
pull1D
Entries 87
Mean −0.02933
Std Dev 1.171

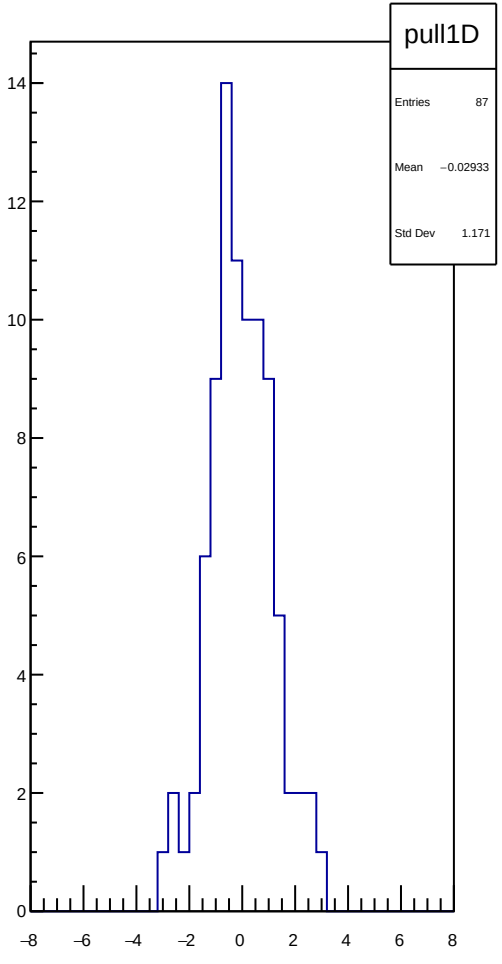

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 8.312e+04 / 86
p0 651.2 ± 0.5027
1400
1200
1000
800
600

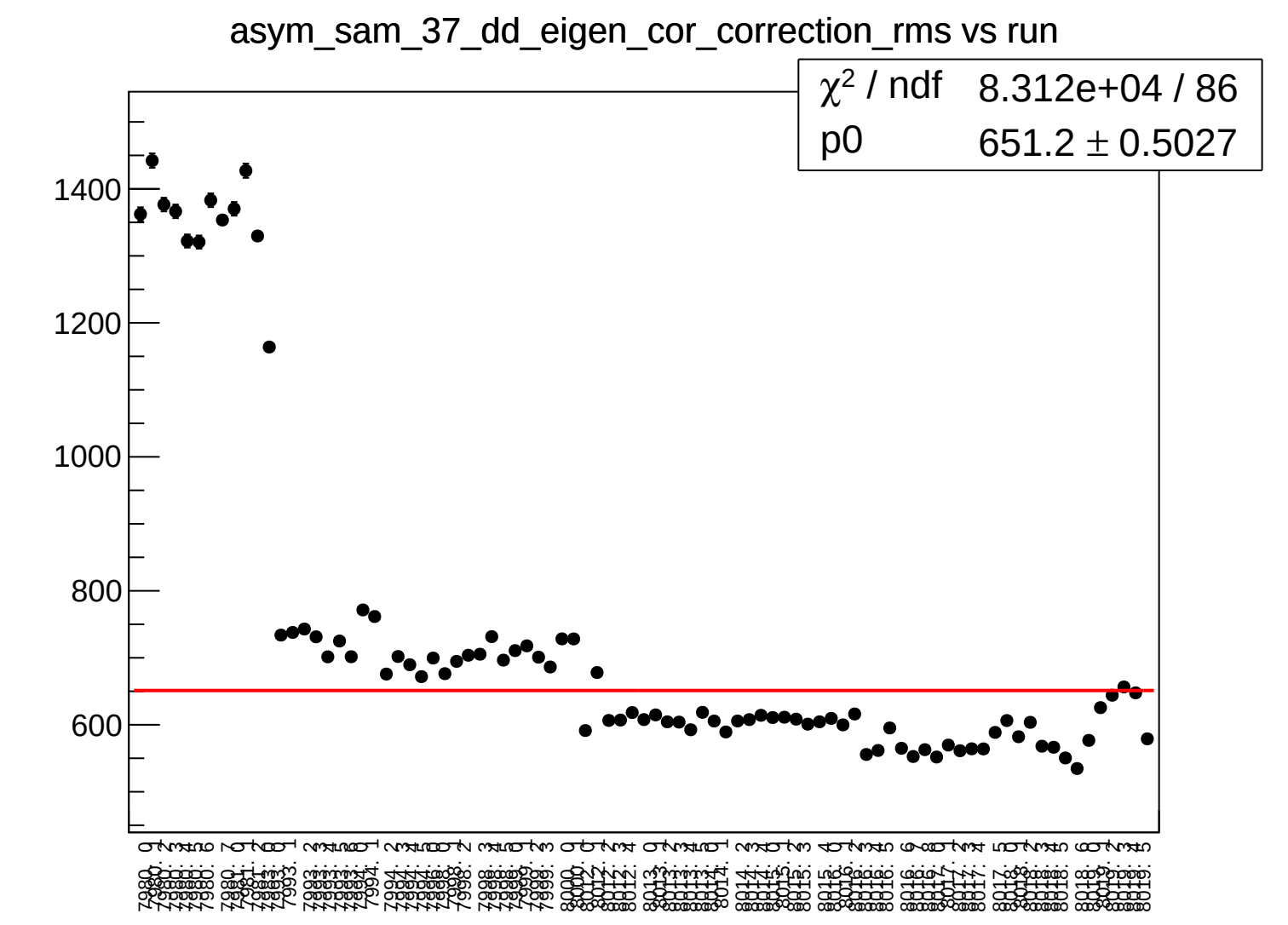

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 69.61 / 86
p0 −51.53 ± 106.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −14.36
Std Dev 45.91
2
1.5
1
0.5
0
−0.5
−1
−1.5

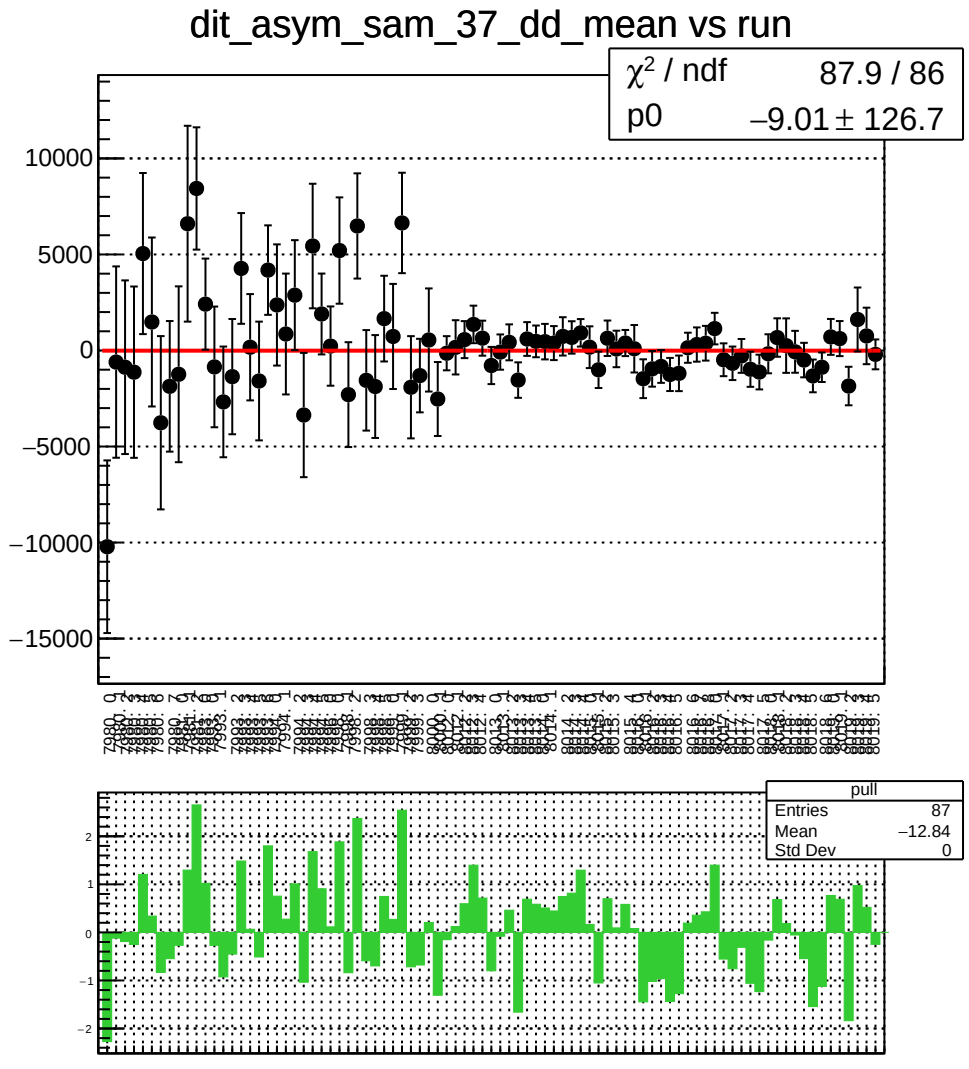

pull1D
Entries 87
Mean −0.02649
Std Dev 0.8941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

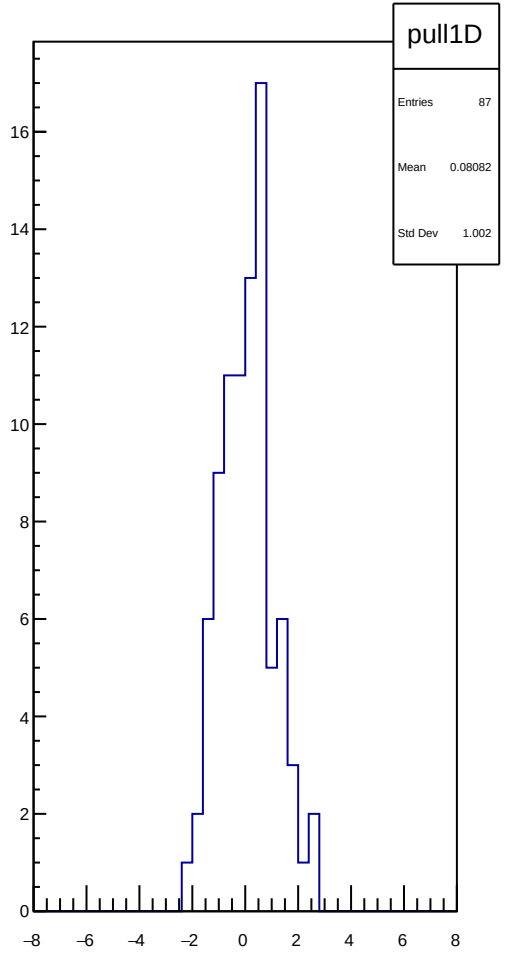

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.297e+05 / 86
p0 96.35 ± 0.07544
220
200
180
160
140
120
100
80
60

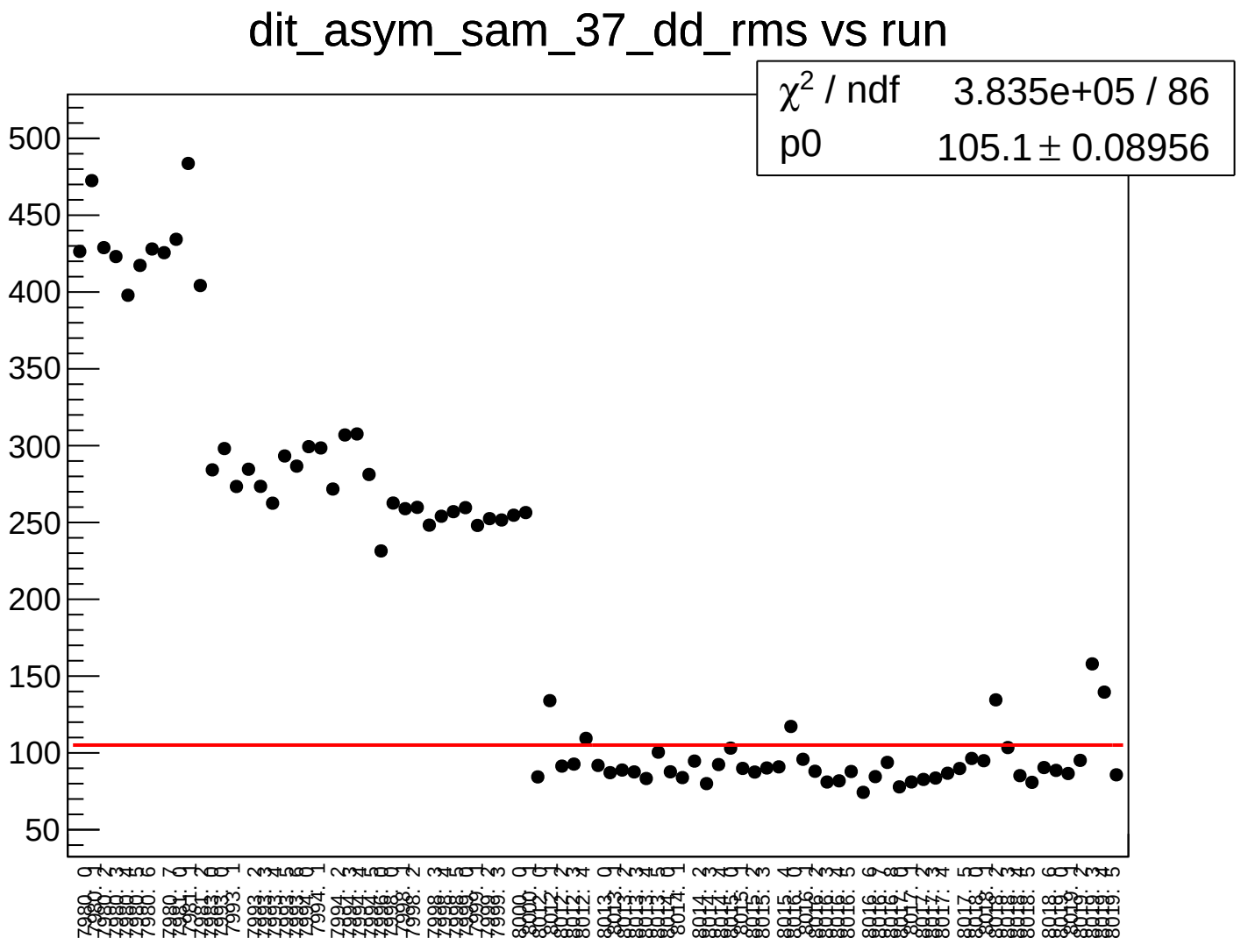

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 119.3 / 86
p0 780.4 ± 711
pull
Entries 87
Mean 18.72
Std Dev 43.27

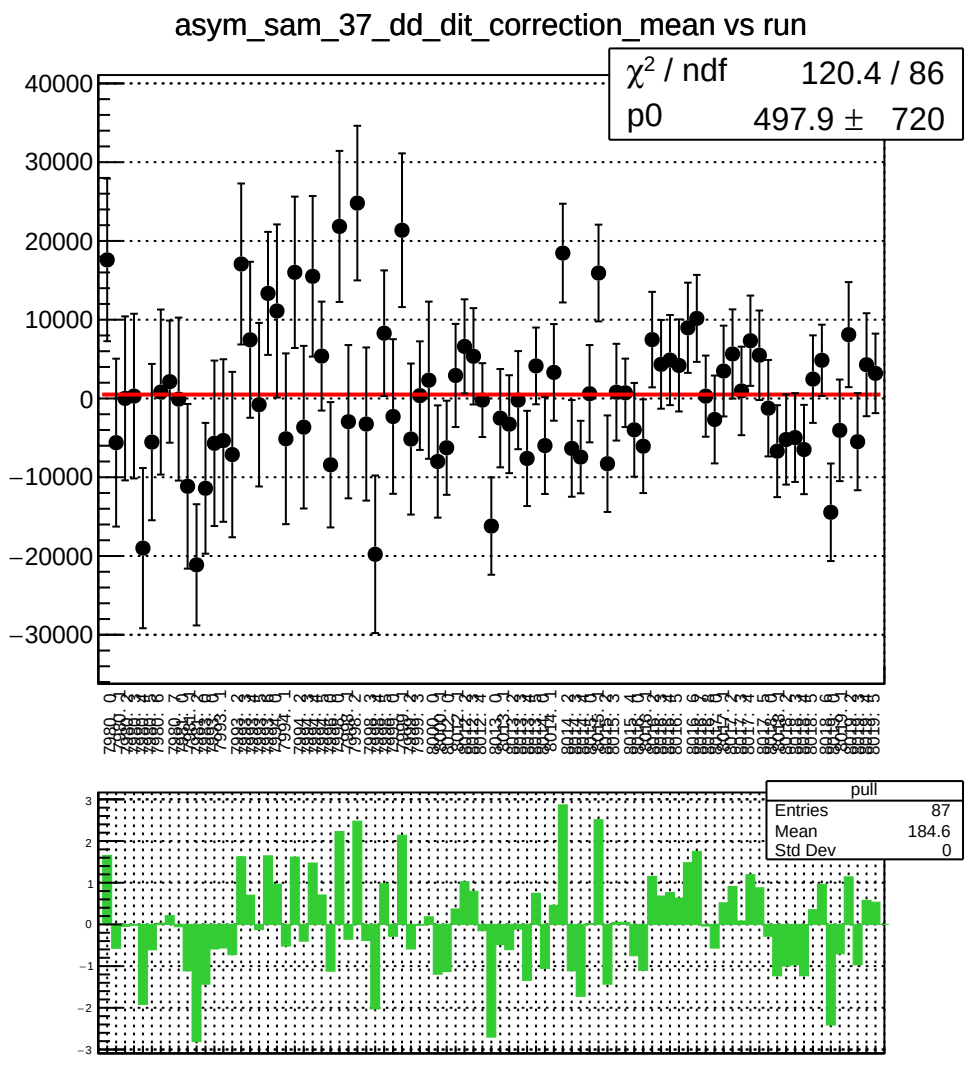

pull1D
Entries 87
Mean −0.02933
Std Dev 1.171

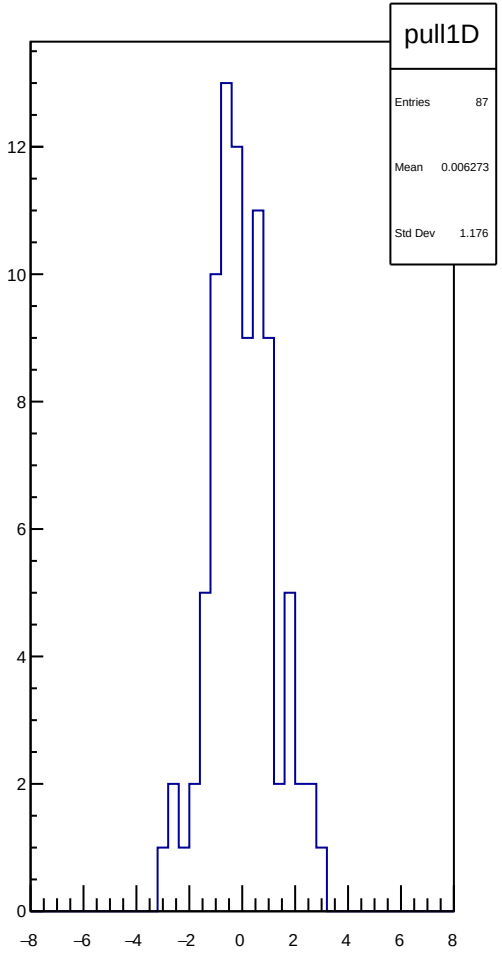

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 8.312e+04 / 86
p0 651.2 ± 0.5027
1400
1200
1000
800
600

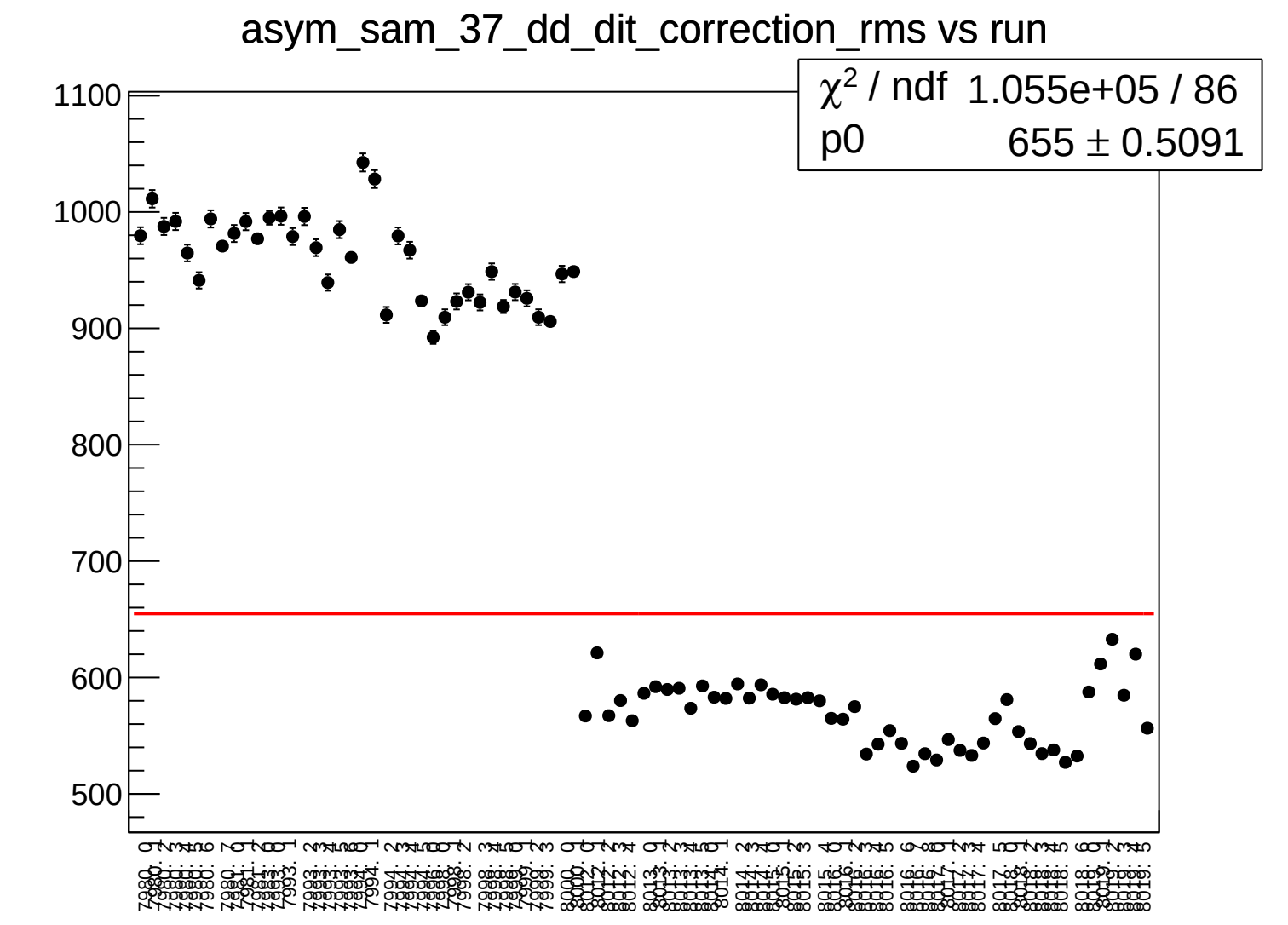

dit_asym_sam_37_dd_mean vs run
χ² / ndf 87.9 / 86
p0 −9.01 ± 126.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −12.84
Std Dev 0
2
1
0
−1
−2

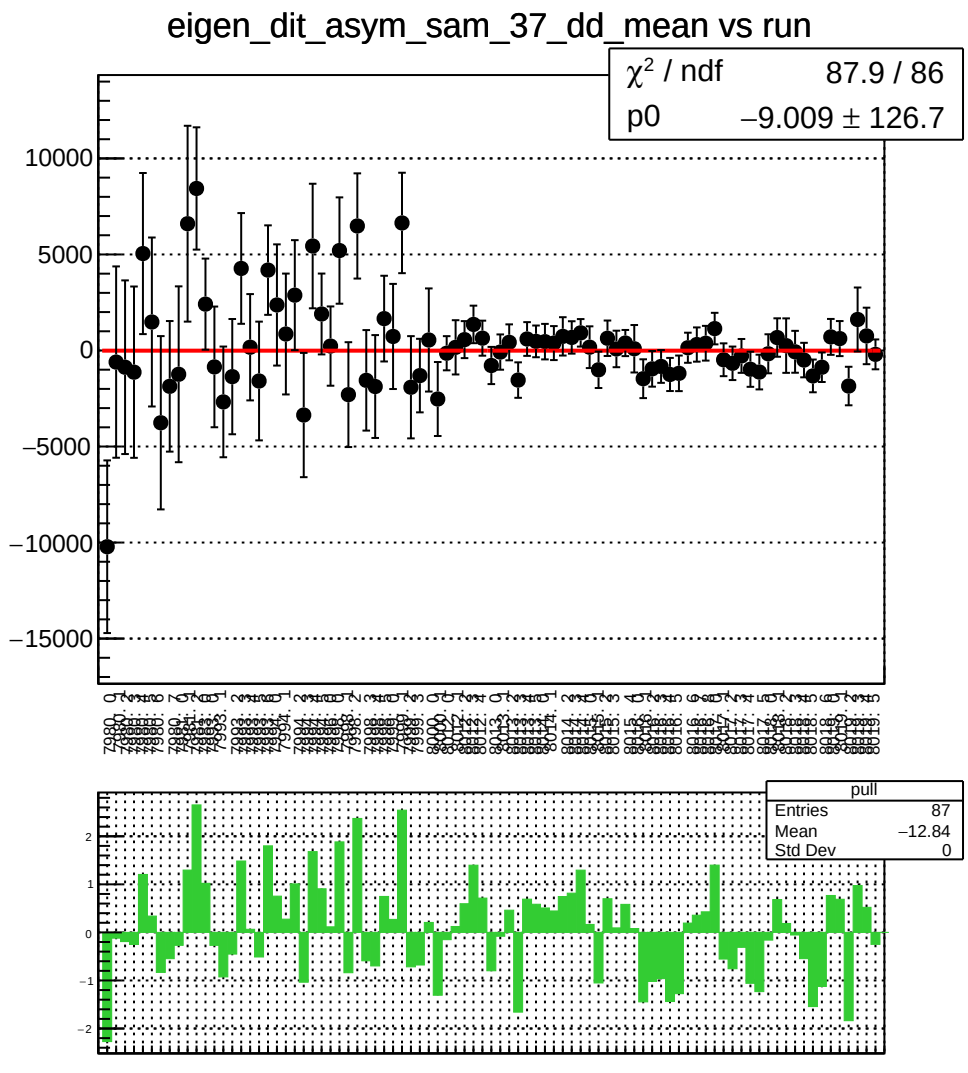

pull1D
Entries 87
Mean 0.08082
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

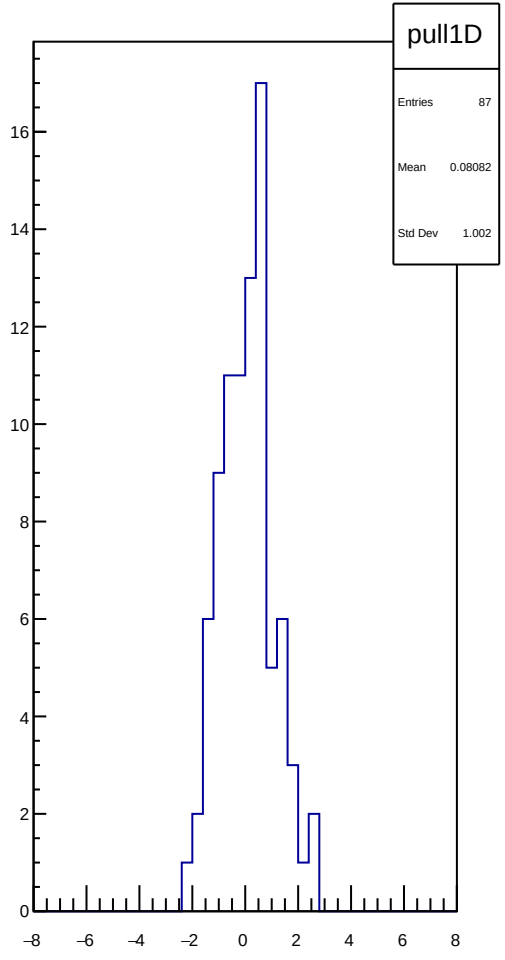

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 3.835e+05 / 86
p0 105.1 ± 0.08956
500
450
400
350
300
250
200
150
100
50

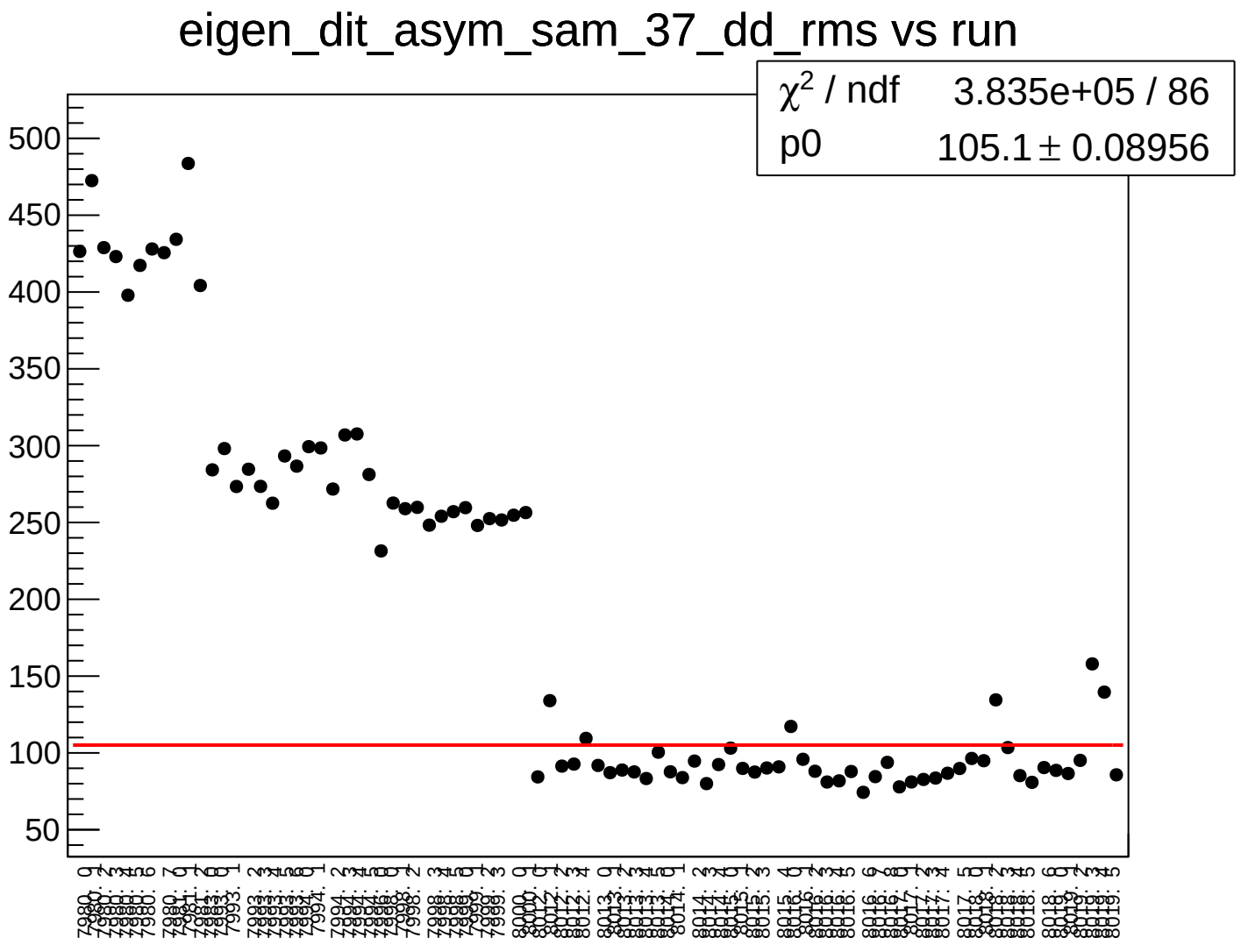

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 120.4 / 86
p0 497.9 ± 720
pull
Entries 87
Mean 184.6
Std Dev 0

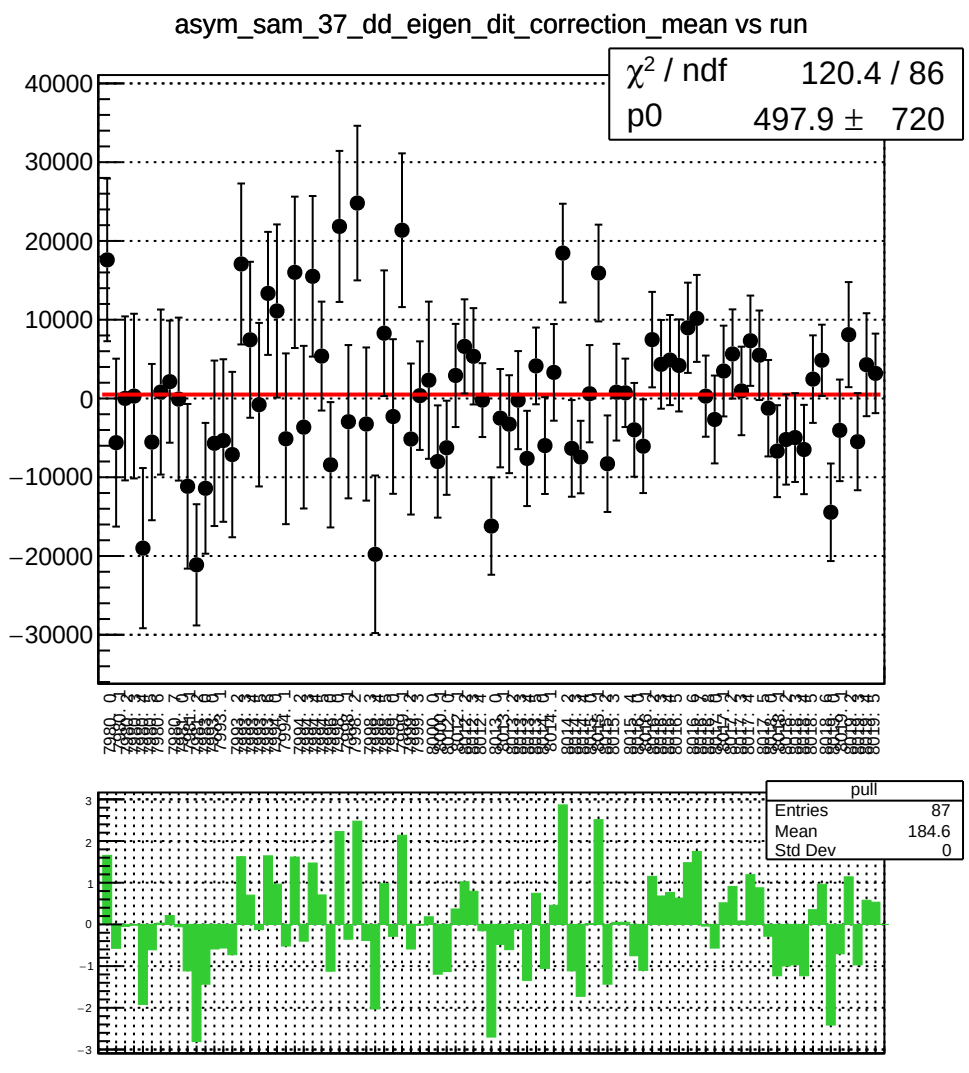

pull1D
Entries 87
Mean 0.006273
Std Dev 1.176

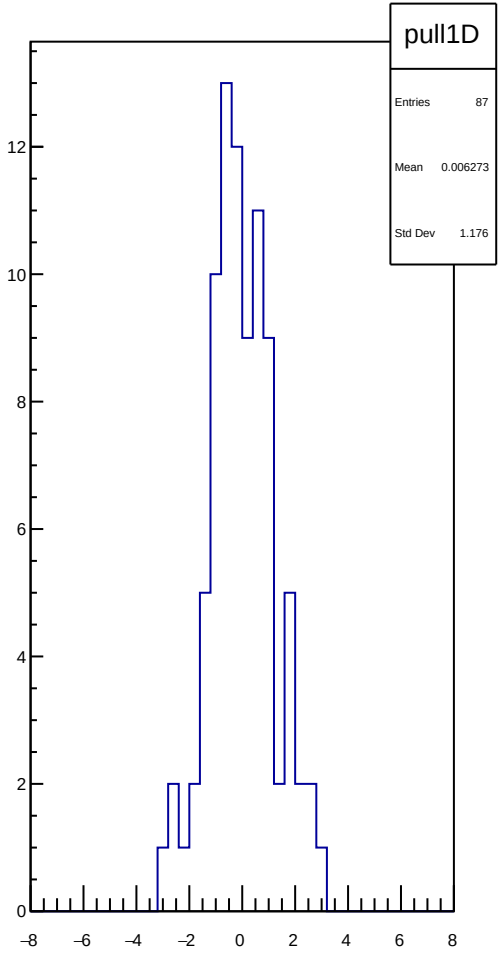

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.055e+05 / 86
p0 655 ± 0.5091
1100
1000
900
800
700
600
500

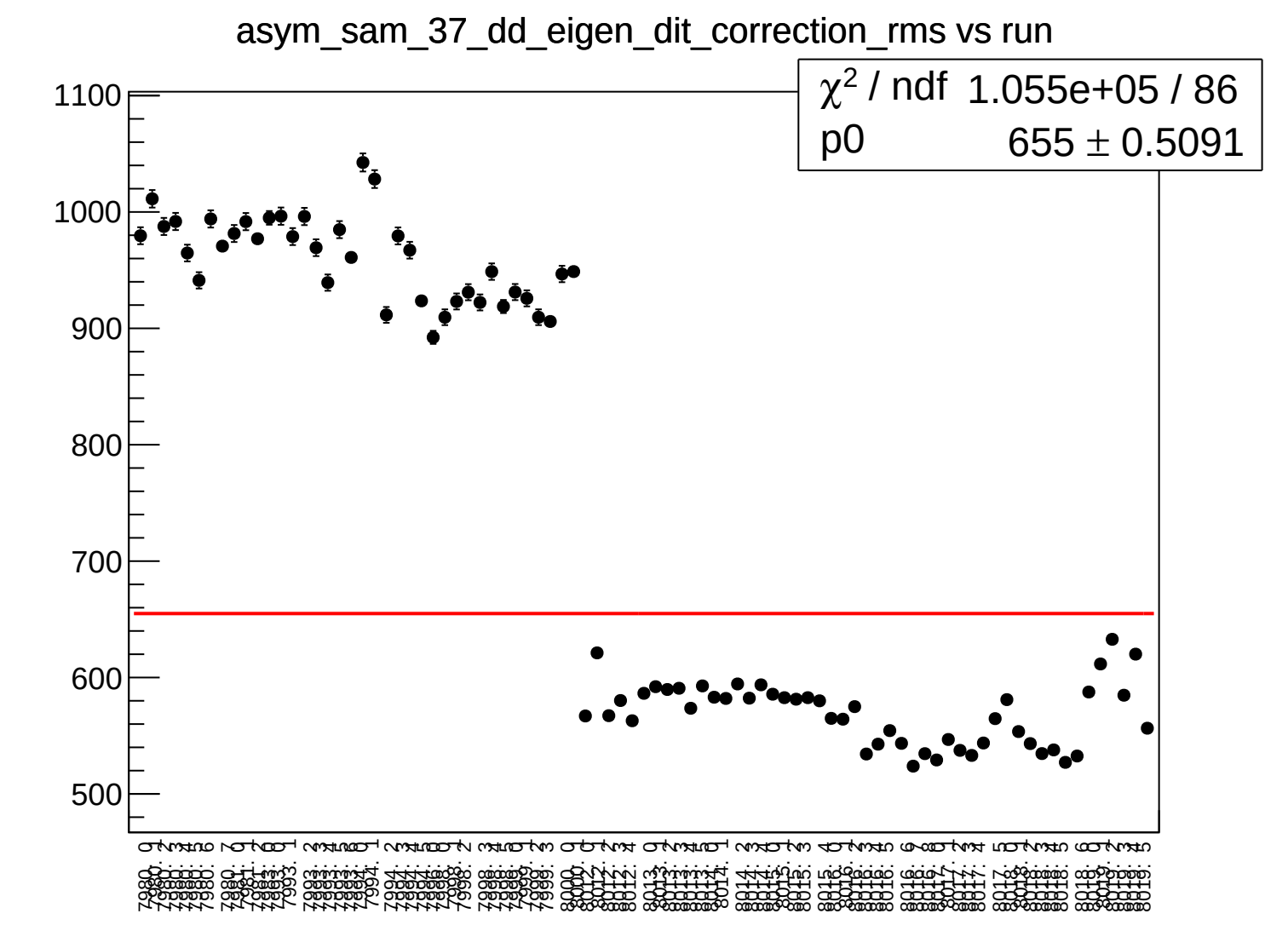

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 87.9 / 86
p0 −9.009 ± 126.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −12.84
Std Dev 0
2
1
0
−1
−2

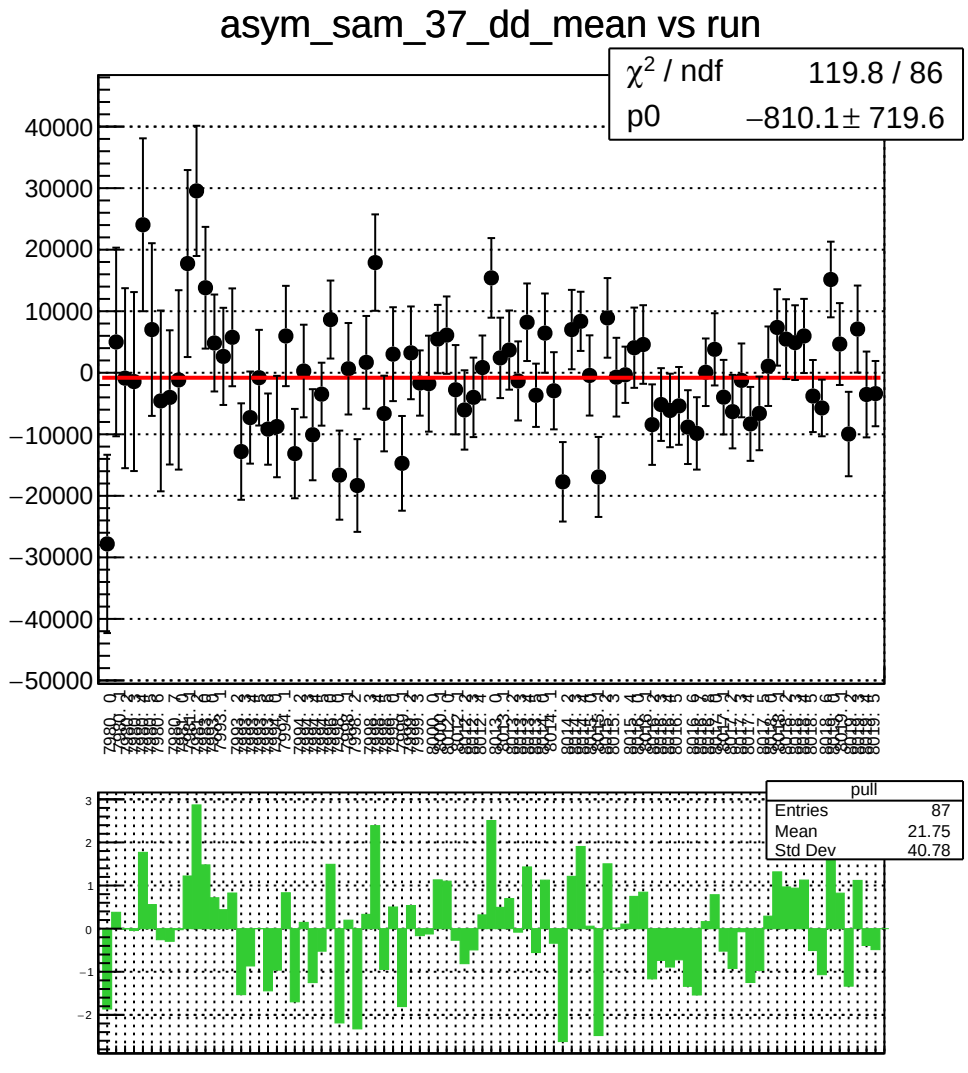

pull1D
Entries 87
Mean 0.08082
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

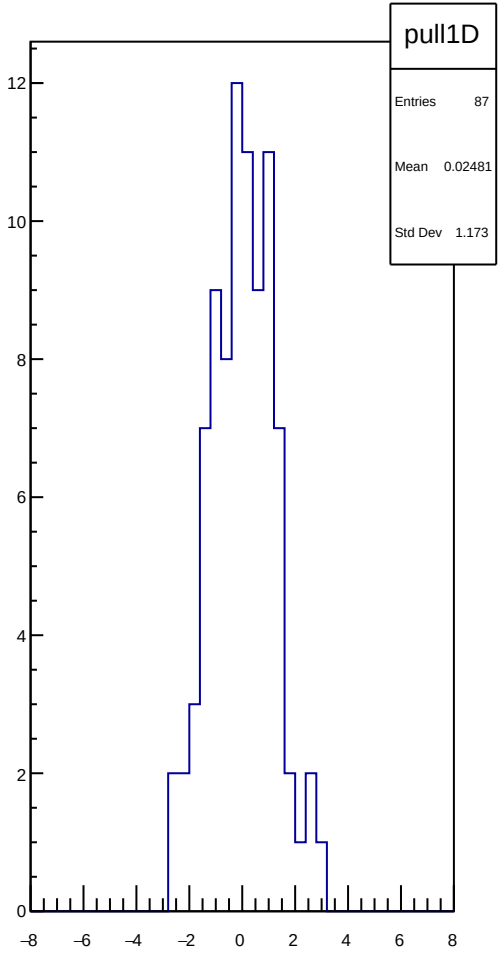

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 3.835e+05 / 86
p0 105.1 ± 0.08956
500
450
400
350
300
250
200
150
100
50

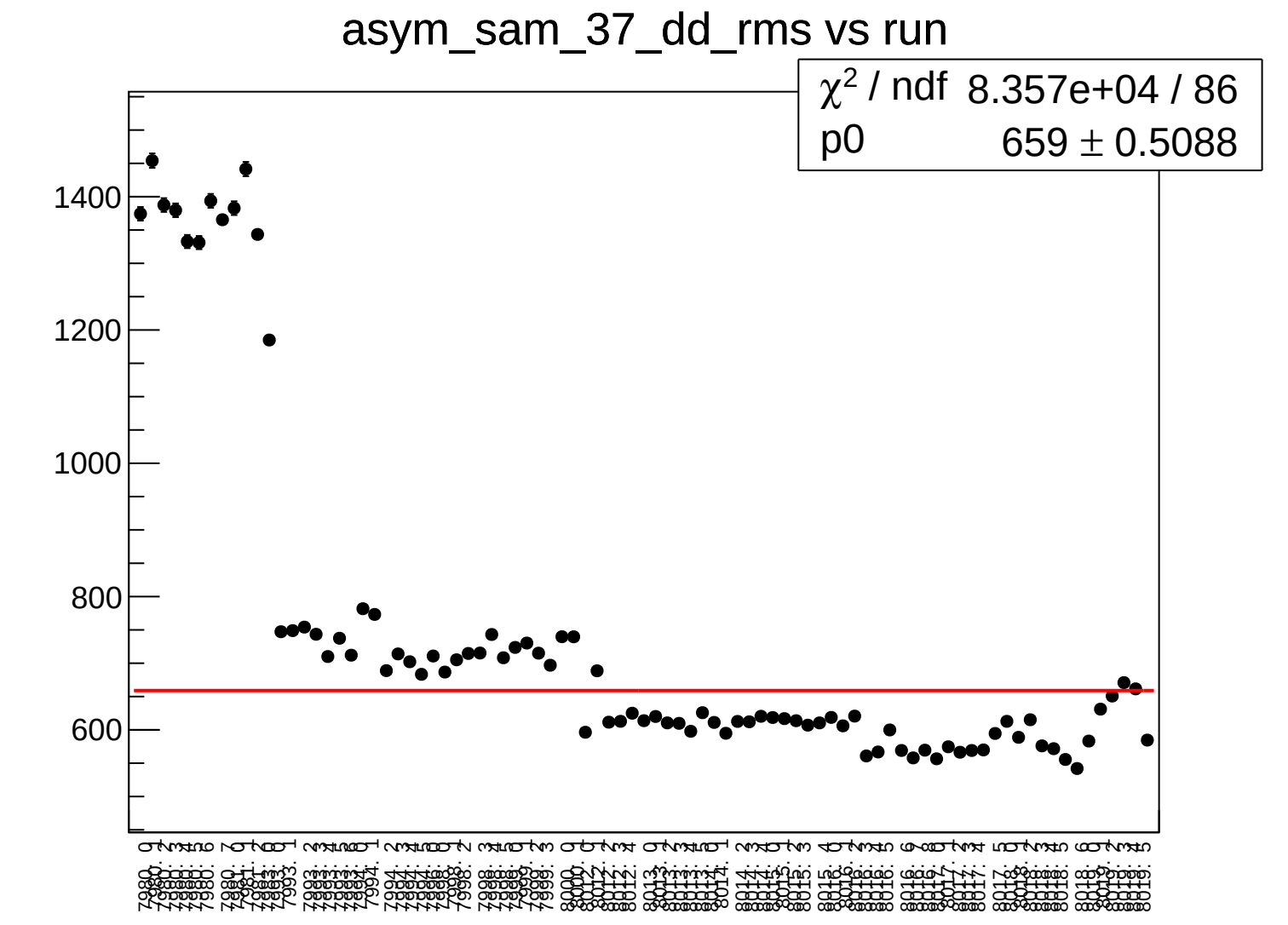

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 120.4 / 86
p0 497.9 ± 720
pull
Entries 87
Mean 184.6
Std Dev 0

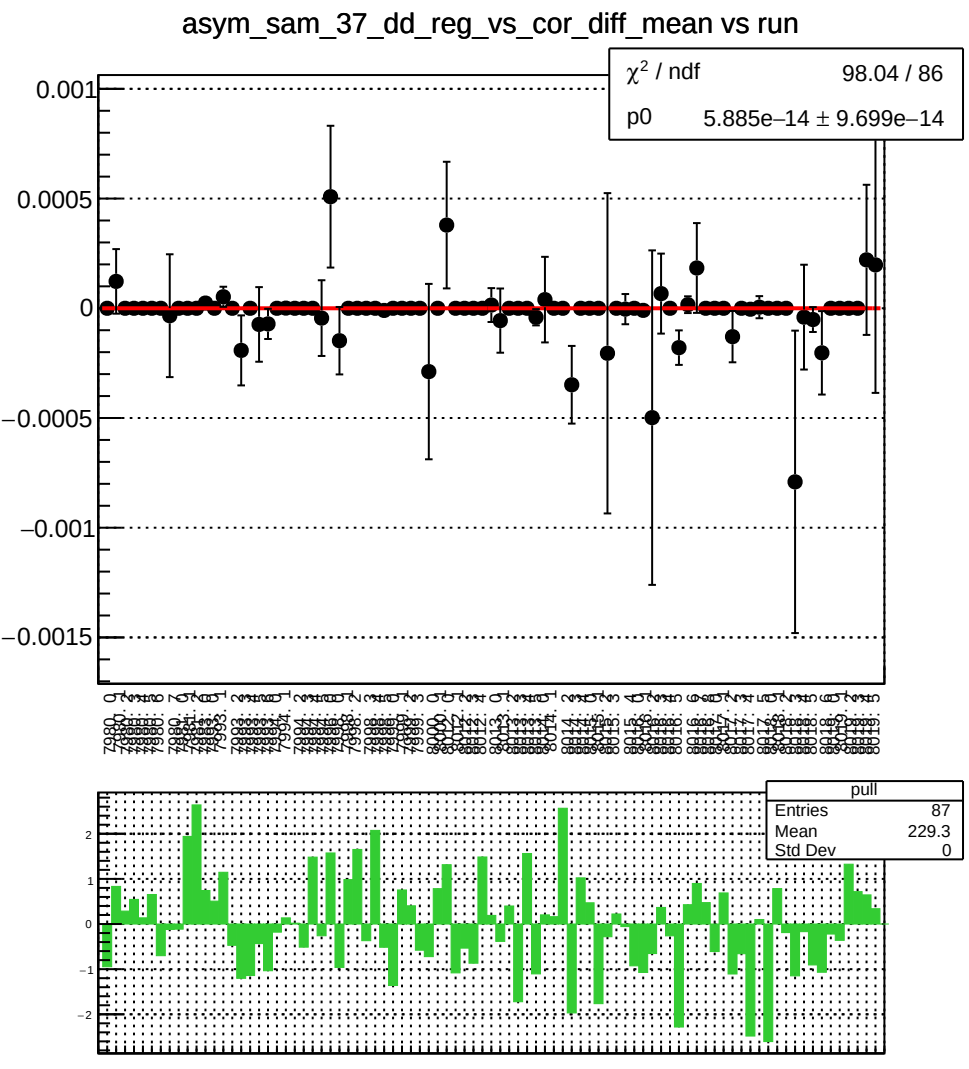

pull1D
Entries 87
Mean 0.006273
Std Dev 1.176

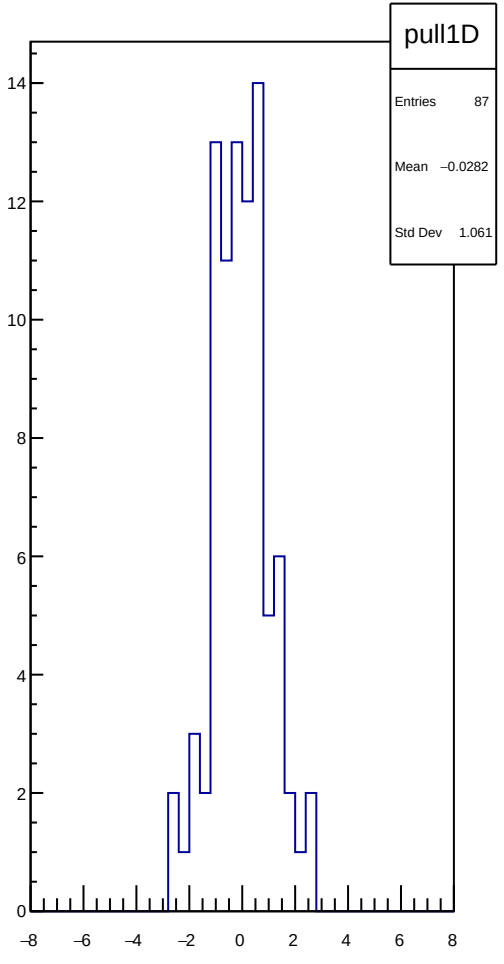

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.055e+05 / 86
p0 655 ± 0.5091
1100
1000
900
800
700
600
500

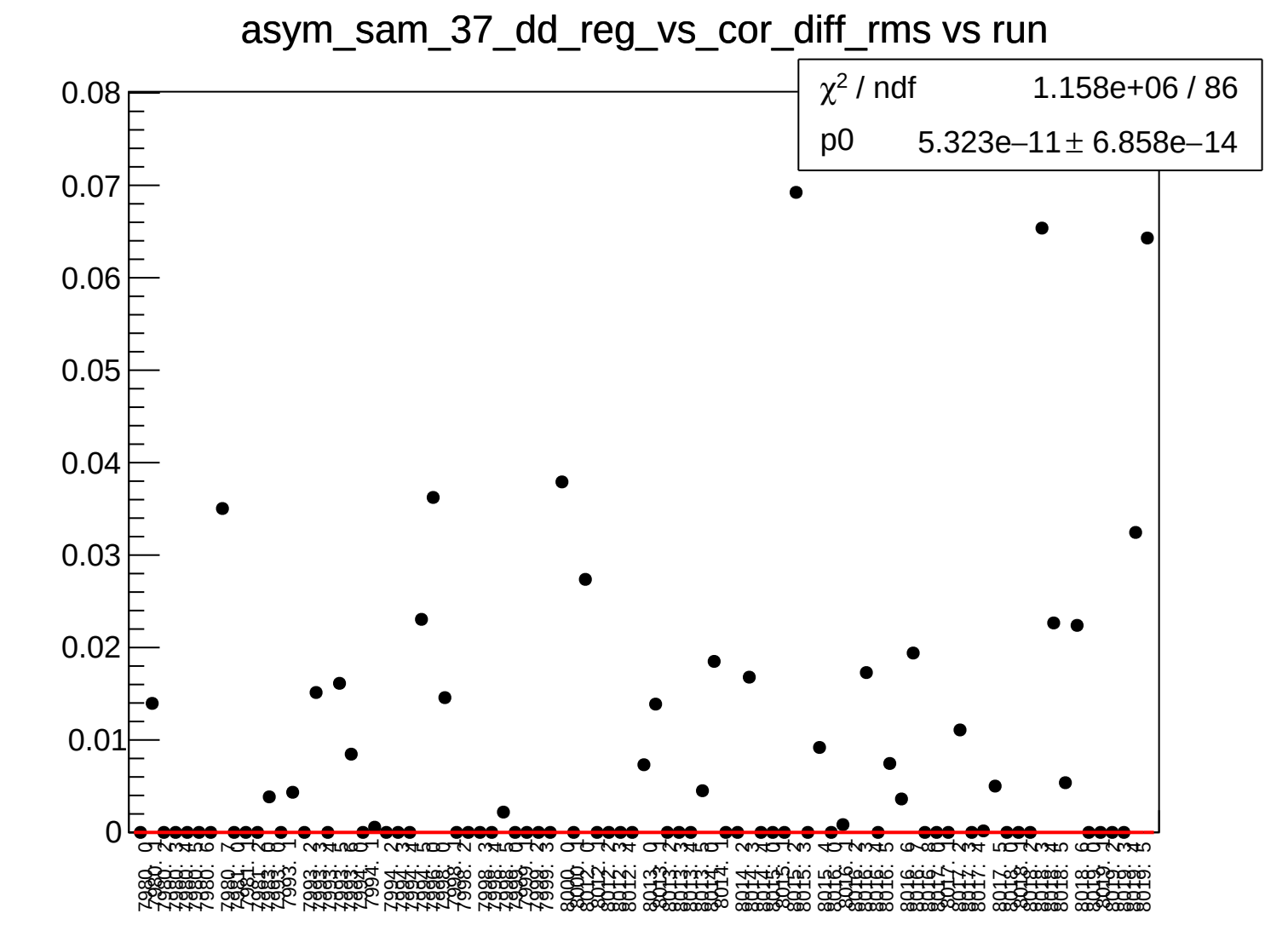

asym_sam_37_dd_mean vs run
χ² / ndf 119.8 / 86
p0 −810.1± 719.6
pull
Entries 87
Mean 21.75
Std Dev 40.78

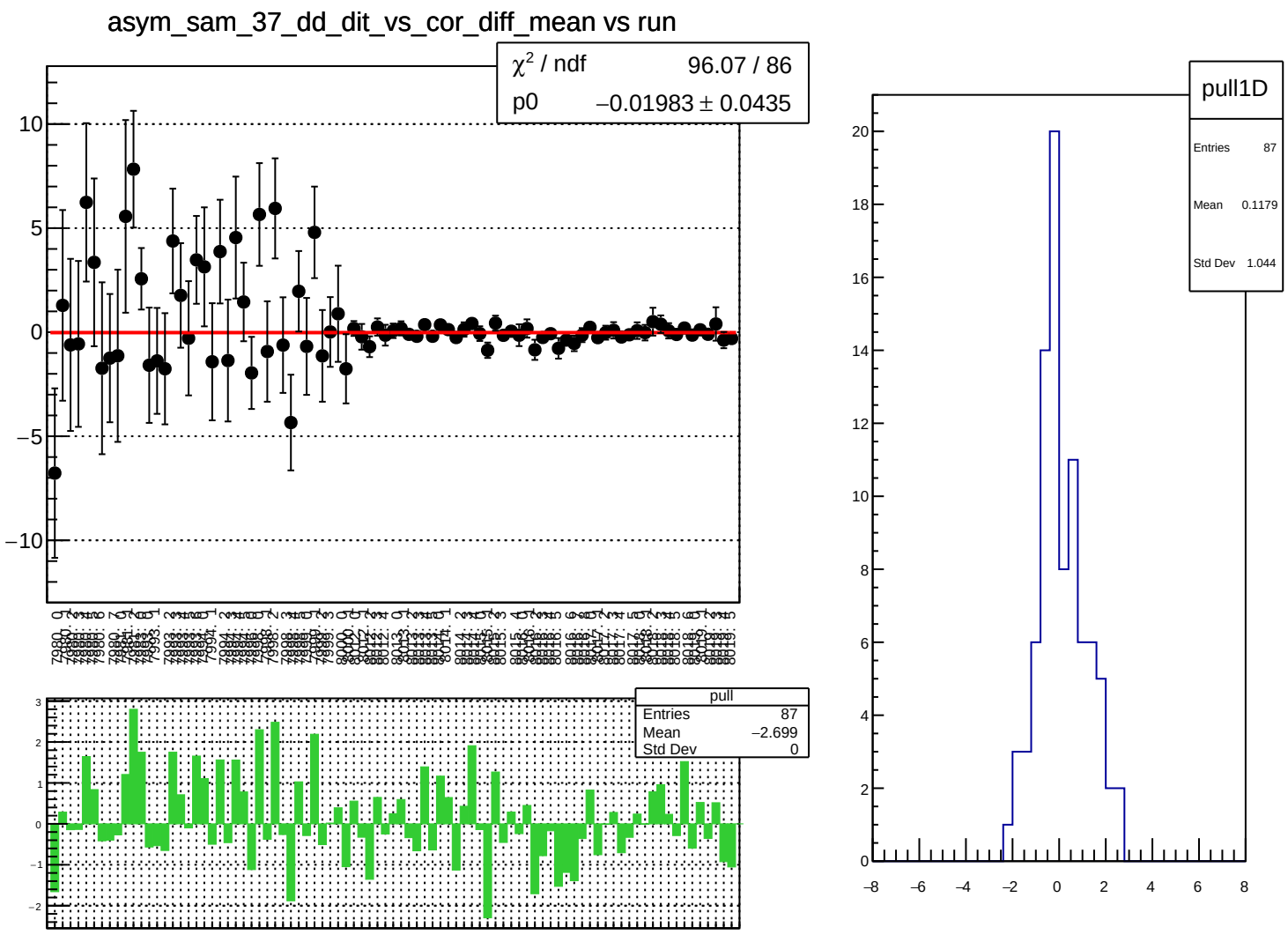

pull1D
Entries 87
Mean 0.02481
Std Dev 1.173

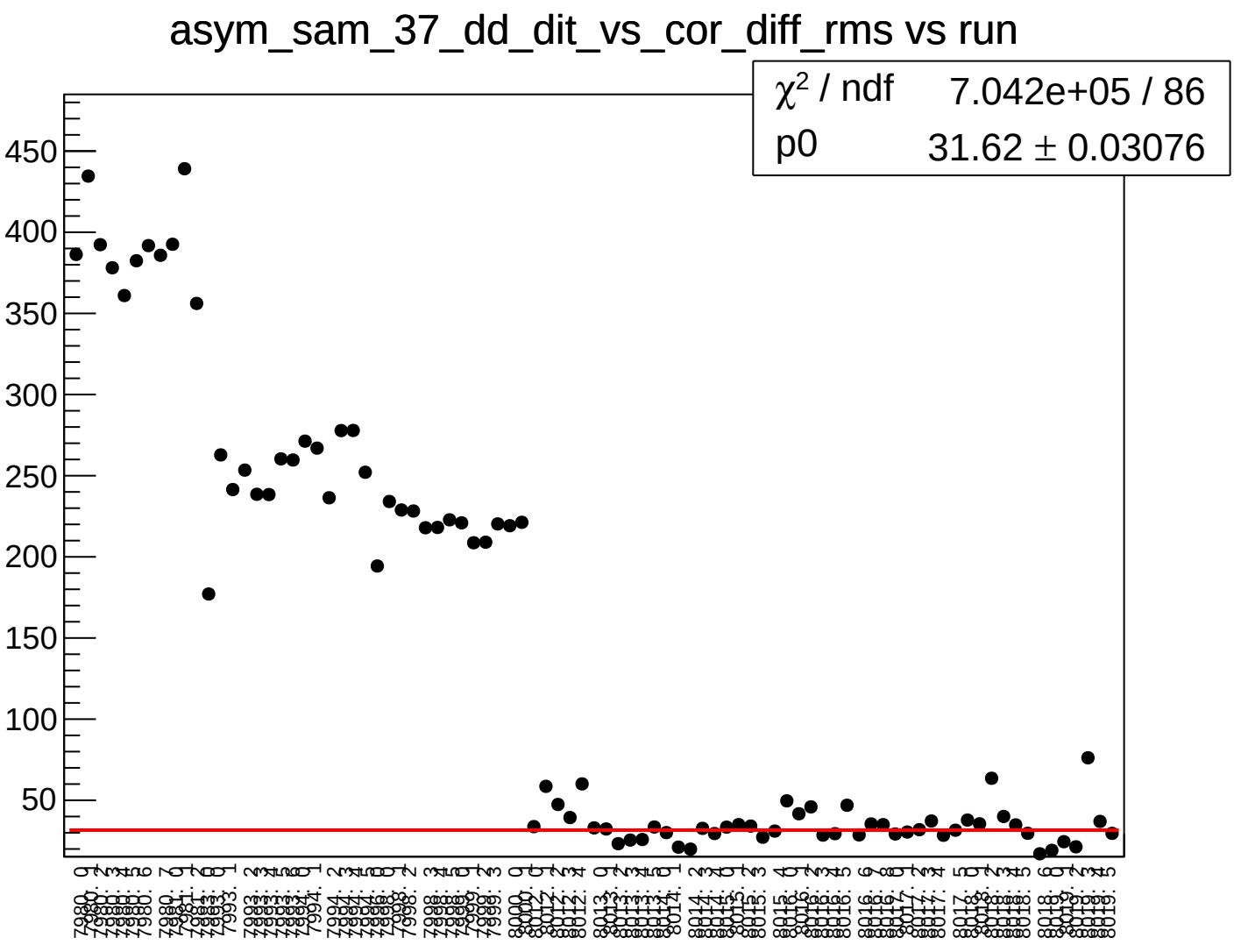

asym_sam_37_dd_rms vs run
χ^2 / ndf 8.357e+04 / 86
p0 659 ± 0.5088
1400
1200
1000
800
600

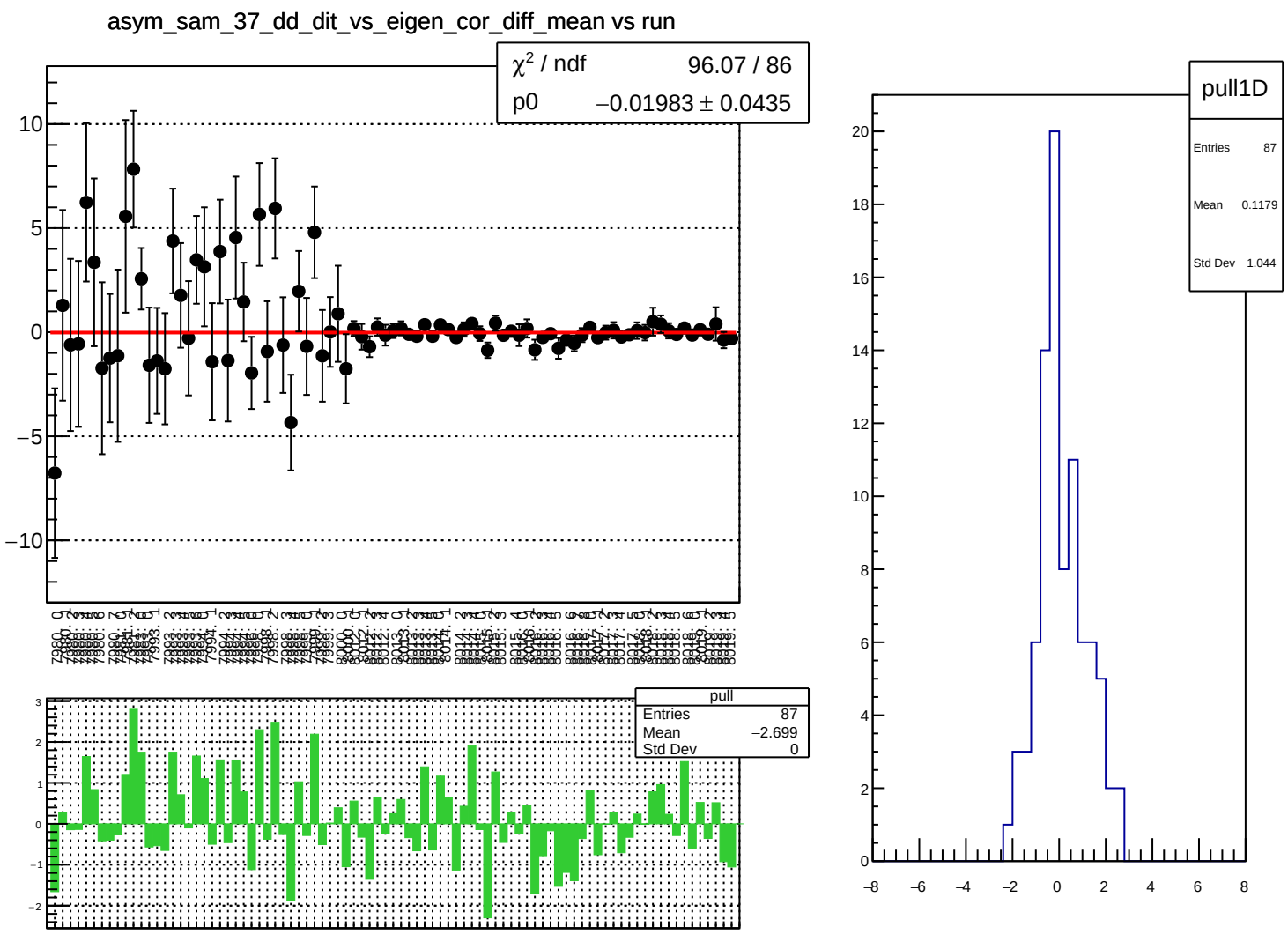

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.04 / 86
p0 5.885e−14 ± 9.699e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 87
Mean 229.3
Std Dev 0
2
1
0
−1
−2

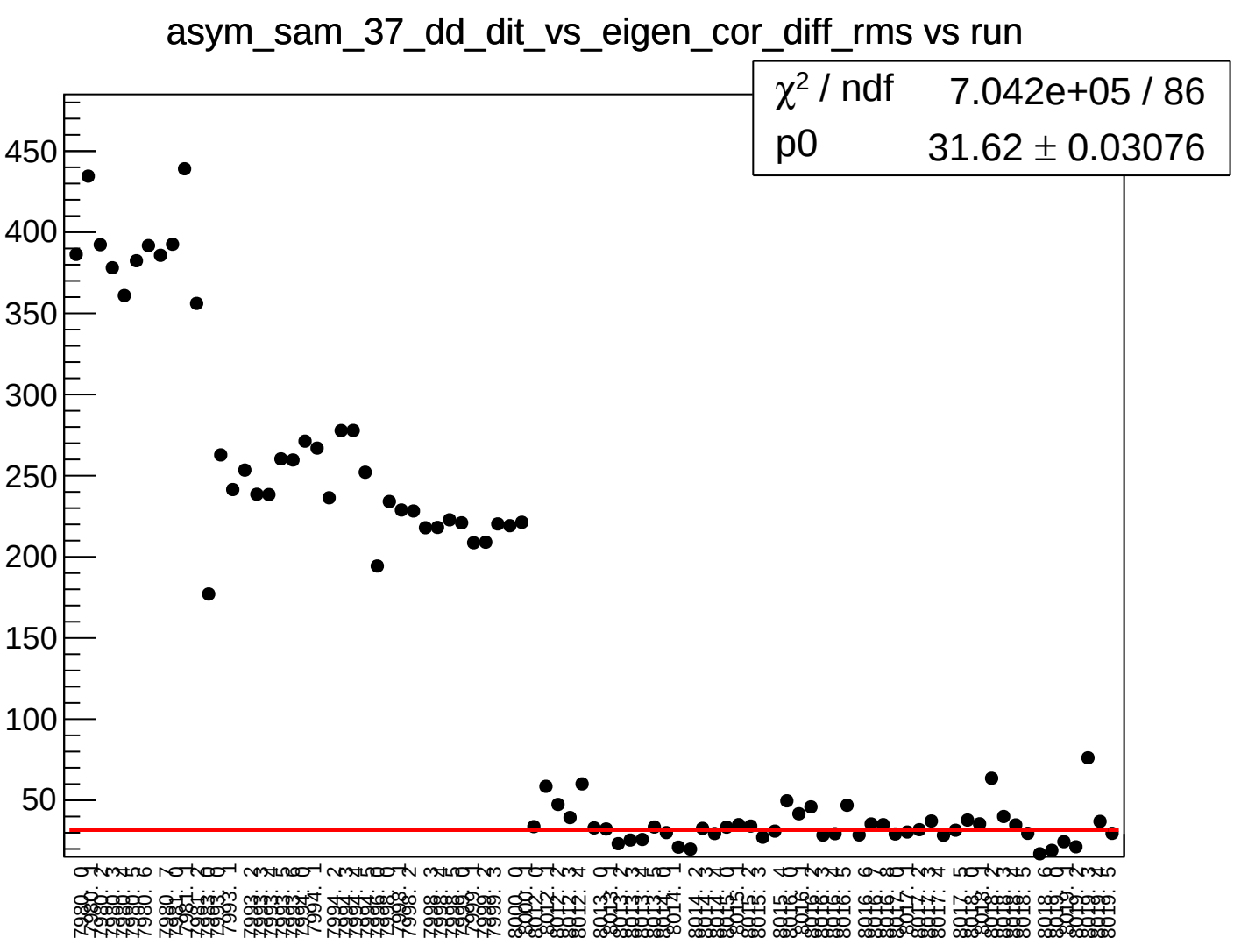

pull1D
Entries 87
Mean −0.0282
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

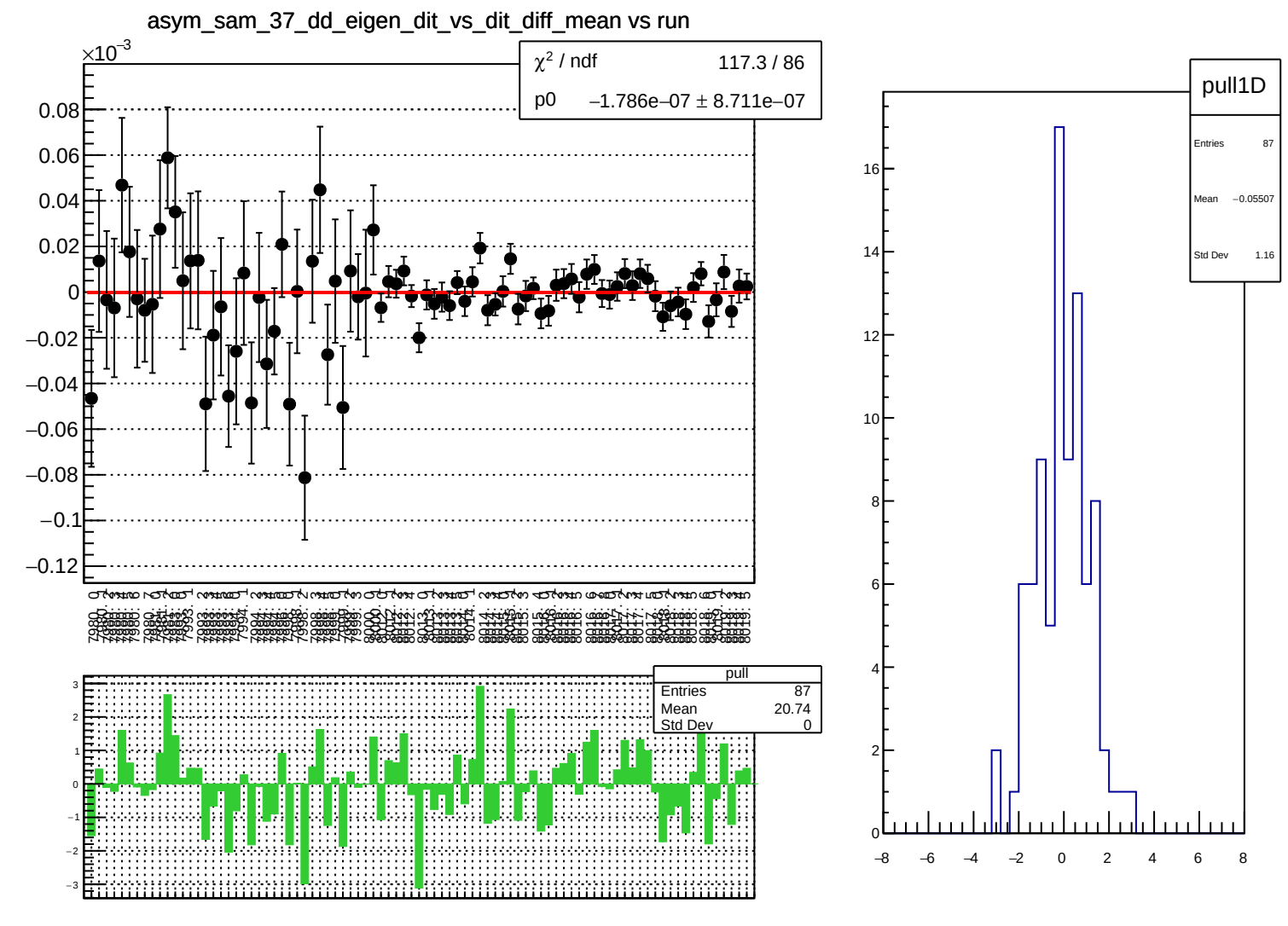

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.158e+06 / 86
p0 5.323e−11 ± 6.858e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

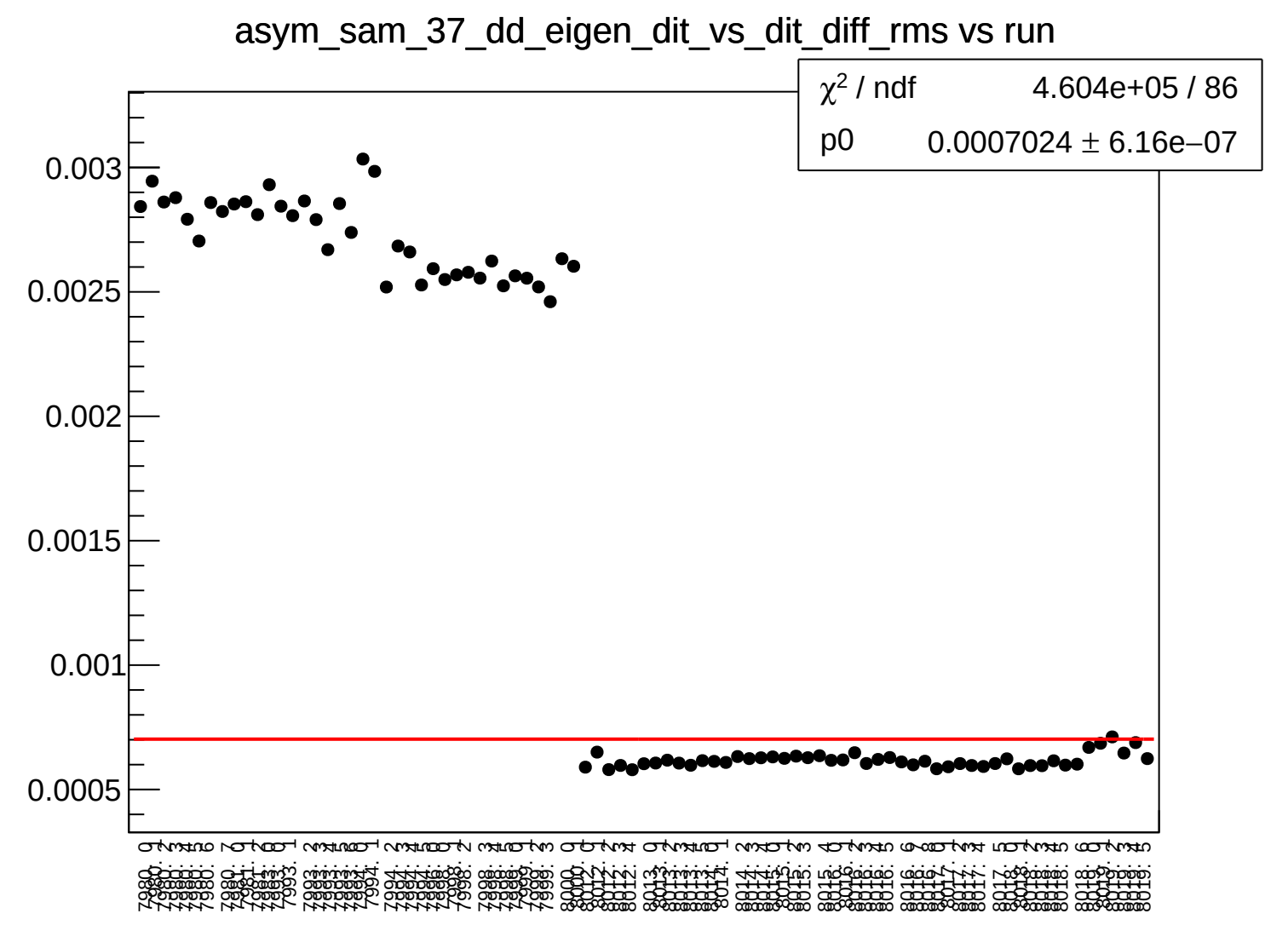

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.07 / 86
p0 −0.01983 ± 0.0435
pull
Entries 87
Mean −2.699
Std Dev 0
pull1D
Entries 87
Mean 0.1179
Std Dev 1.044

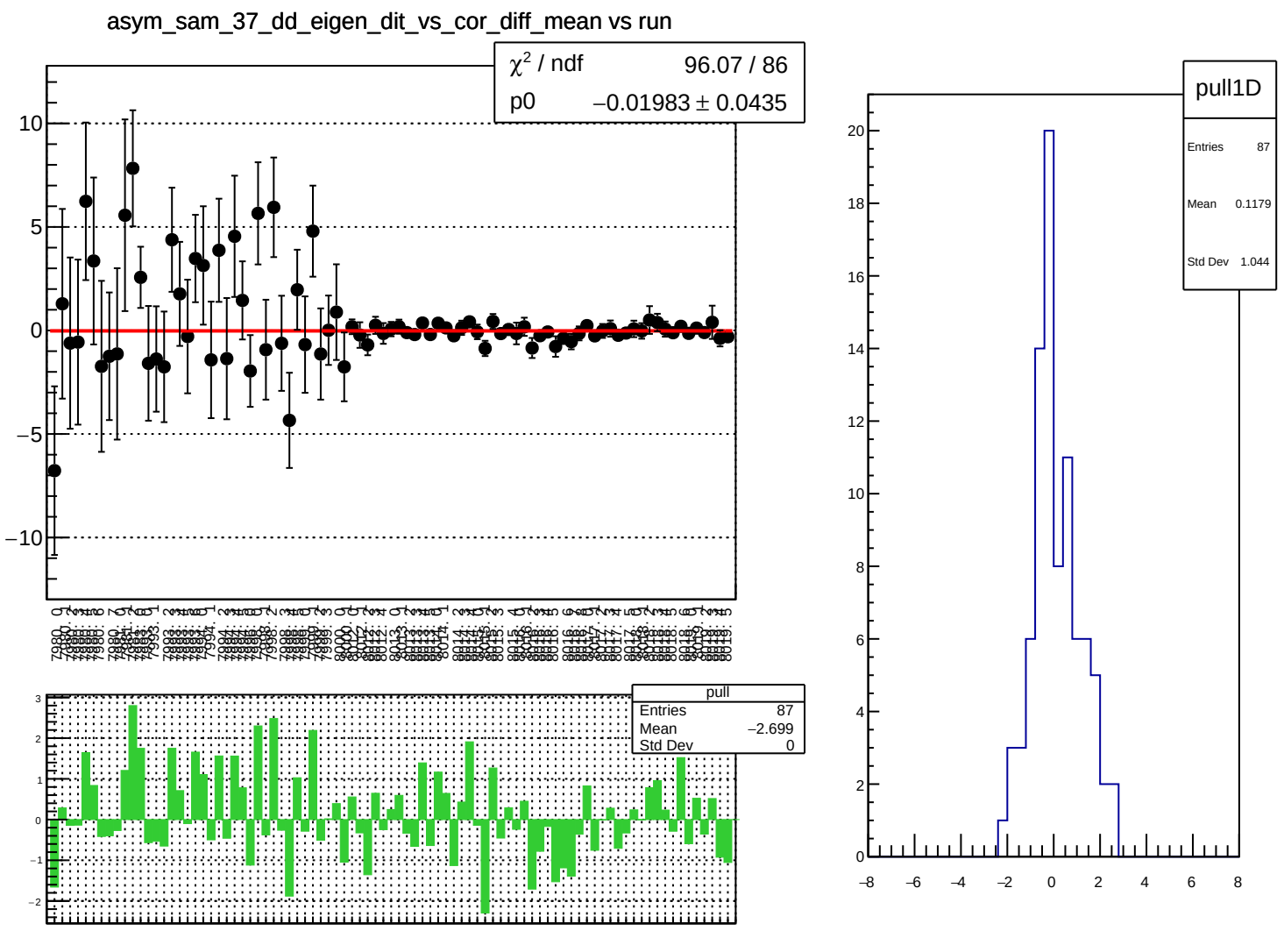

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.042e+05 / 86
p0 31.62 ± 0.03076
450
400
350
300
250
200
150
100
50

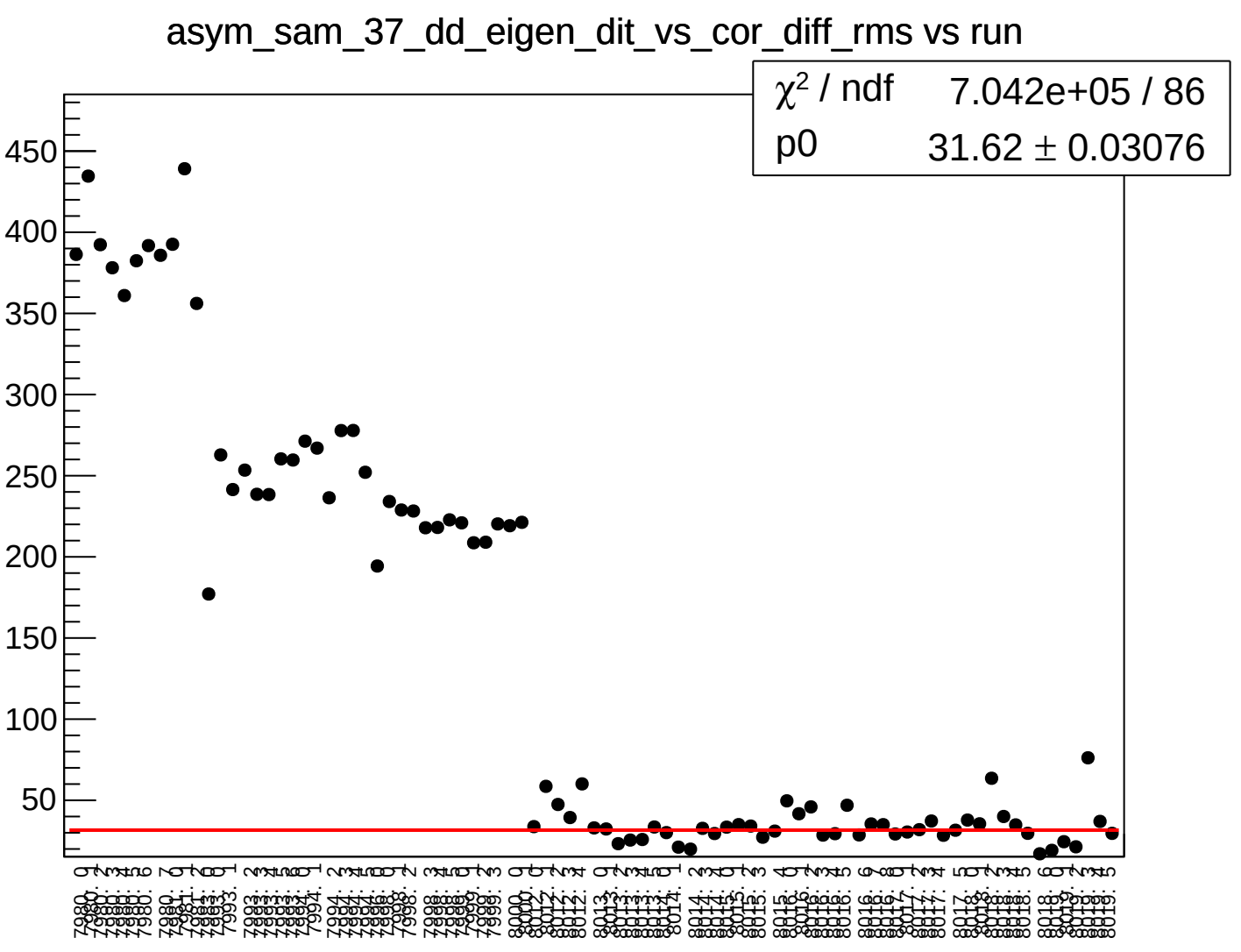

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.07 / 86
p0 −0.01983 ± 0.0435
pull
Entries 87
Mean −2.699
Std Dev 0
pull1D
Entries 87
Mean 0.1179
Std Dev 1.044

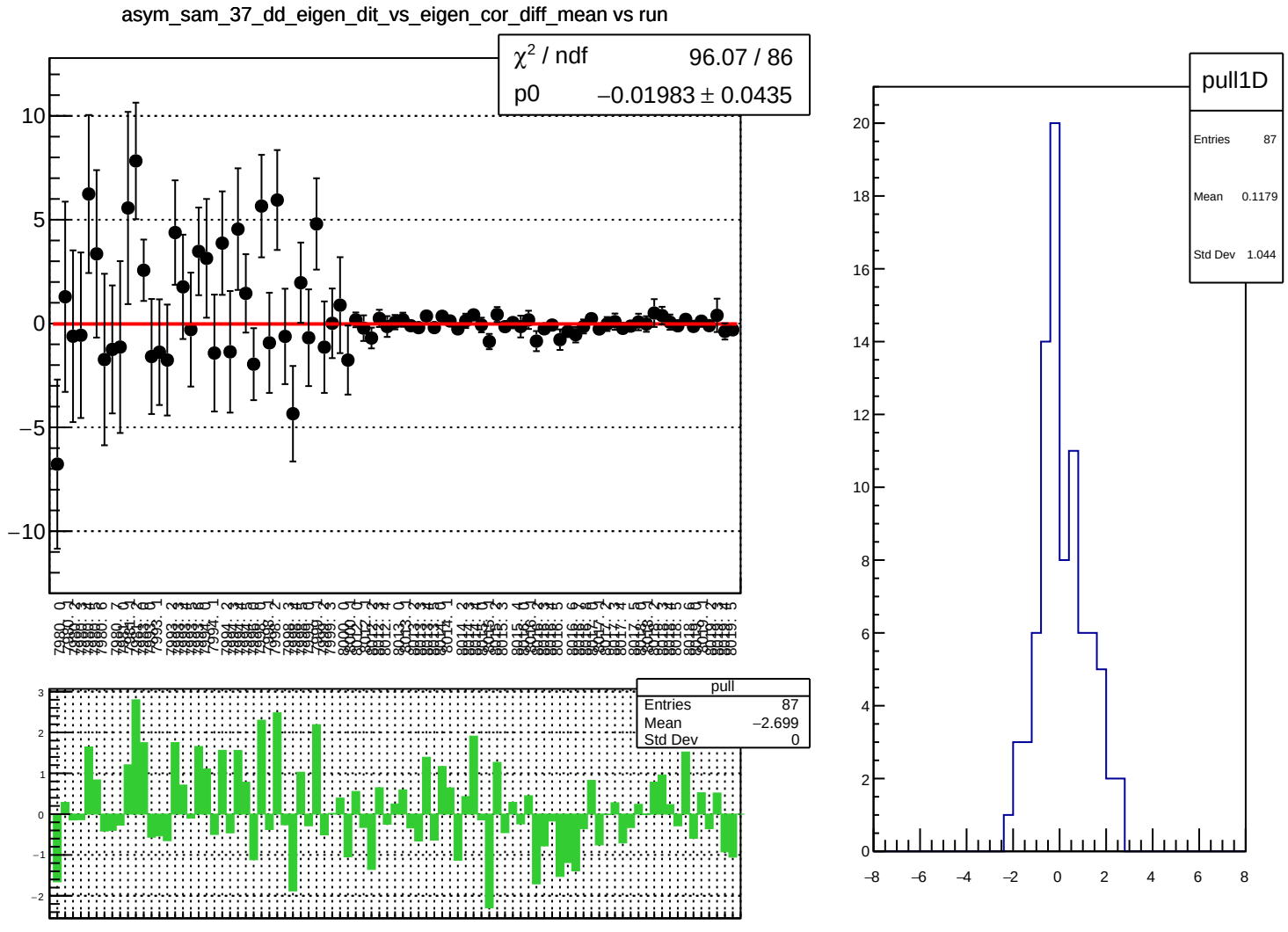

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.042e+05 / 86
p0 31.62 ± 0.03076
450
400
350
300
250
200
150
100
50

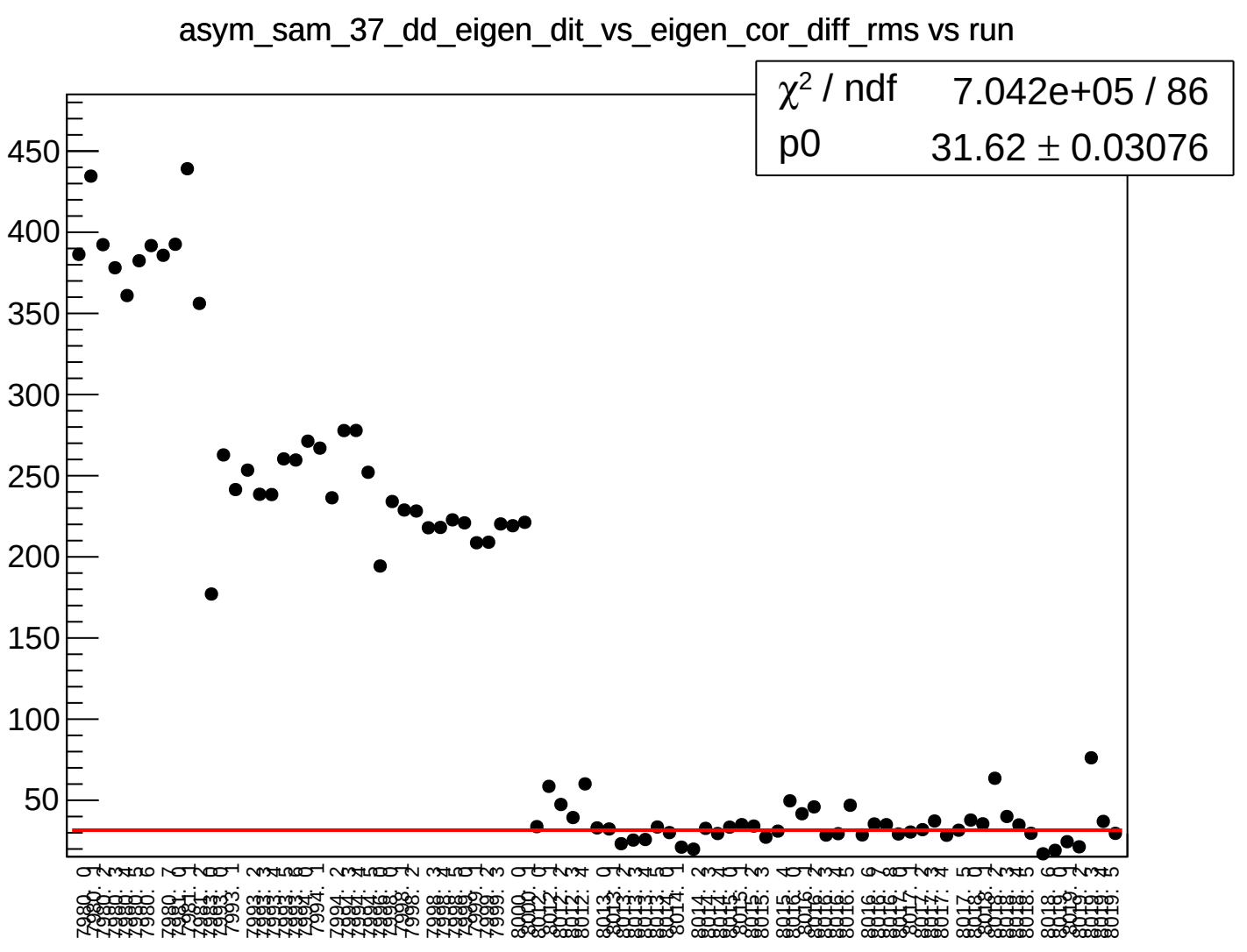

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 117.3 / 86
p0 −1.786e−07 ± 8.711e−07
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 87
Mean 20.74
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.05507
Std Dev 1.16
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

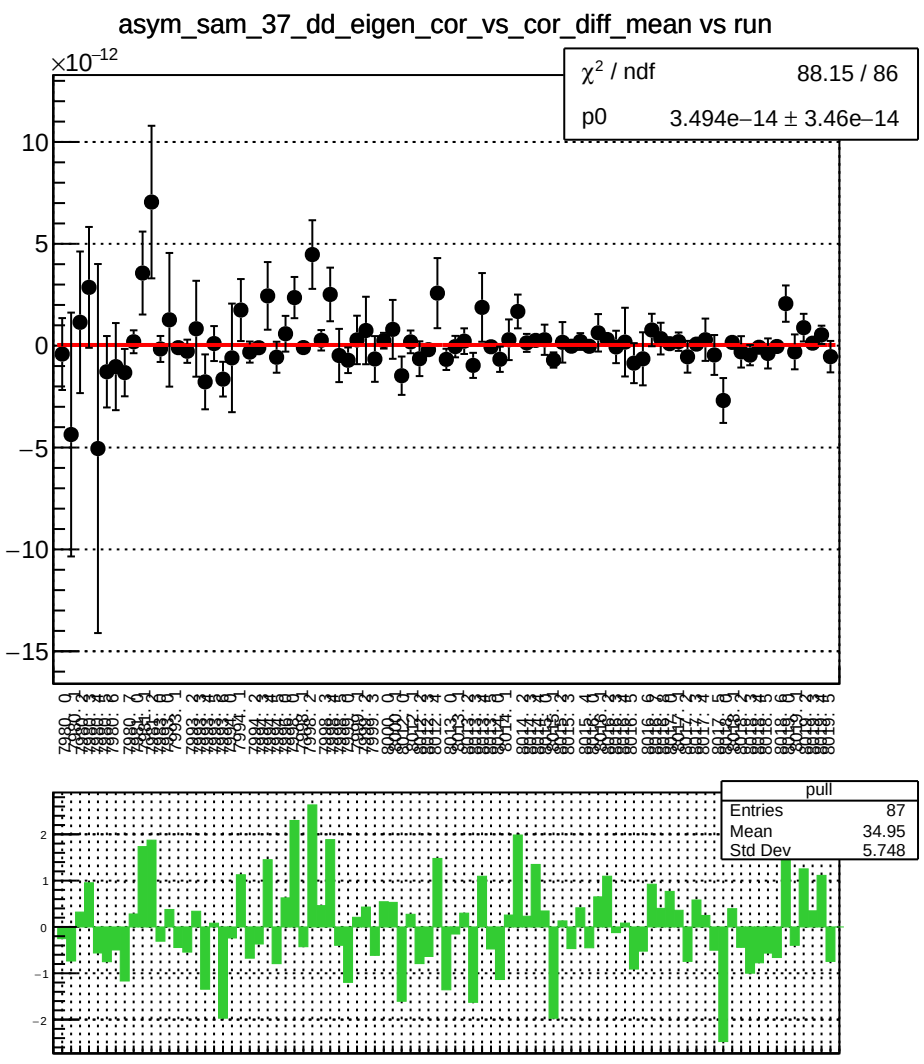

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.604e+05 / 86
p0 0.0007024 ± 6.16e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

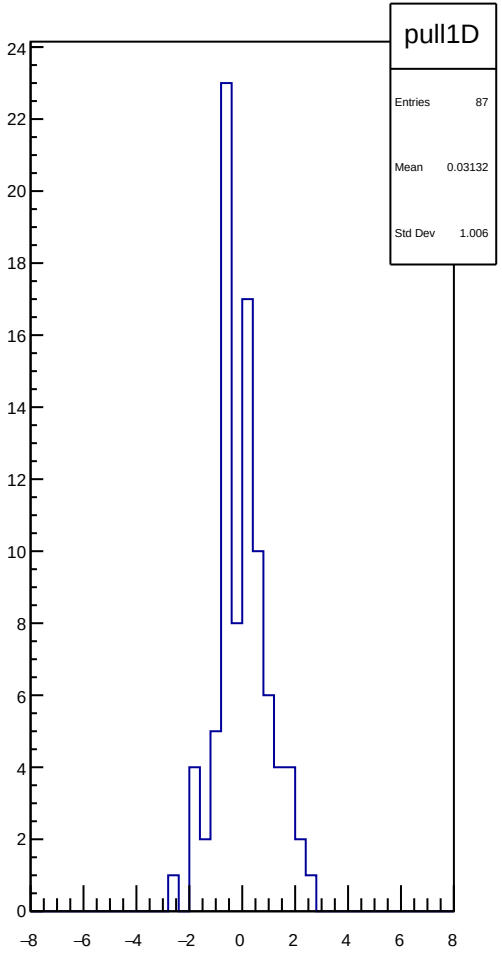

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.07 / 86
p0 −0.01983 ± 0.0435
pull
Entries 87
Mean −2.699
Std Dev 0
pull1D
Entries 87
Mean 0.1179
Std Dev 1.044

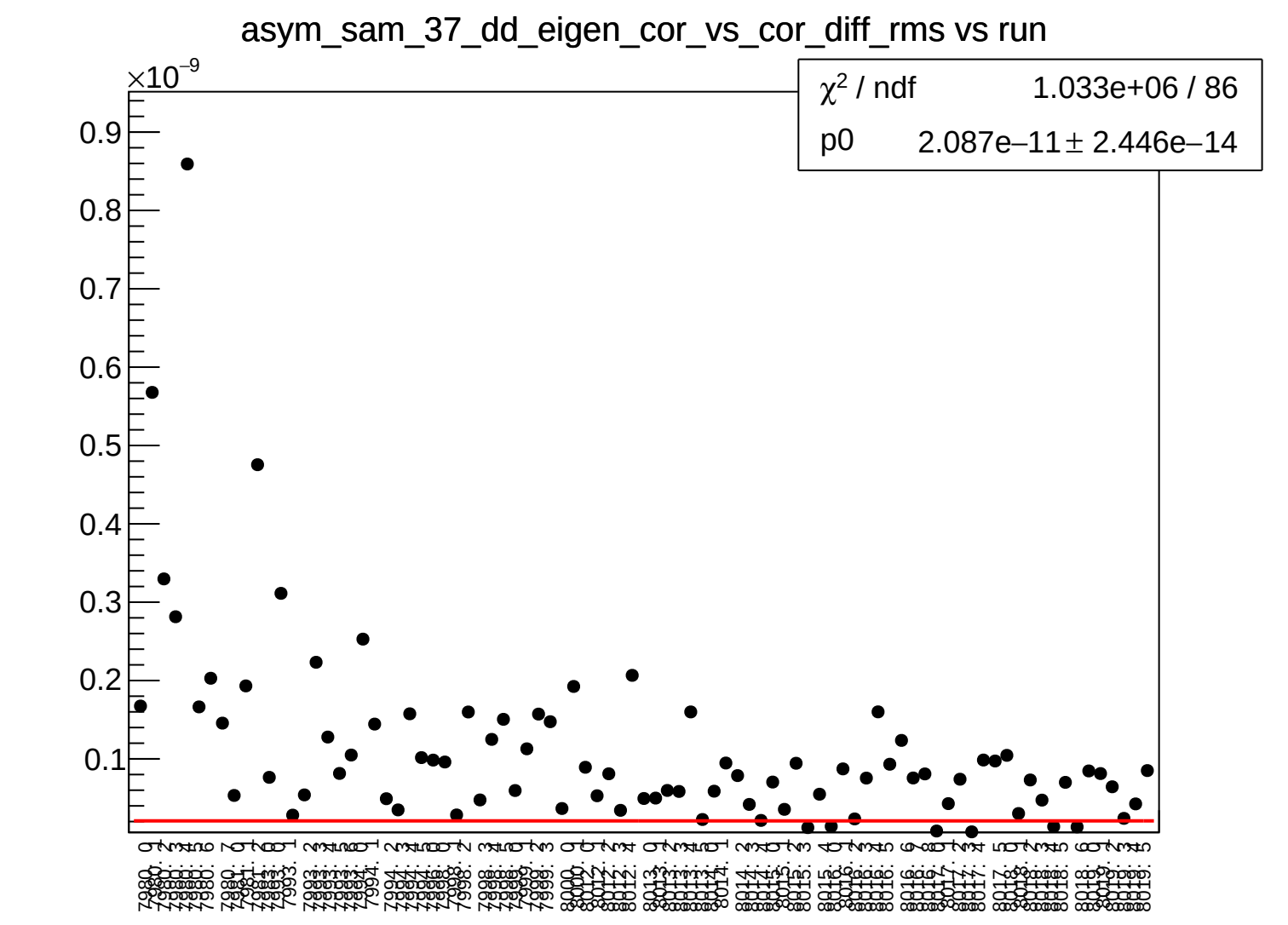

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.042e+05 / 86
p0 31.62 ± 0.03076
450
400
350
300
250
200
150
100
50

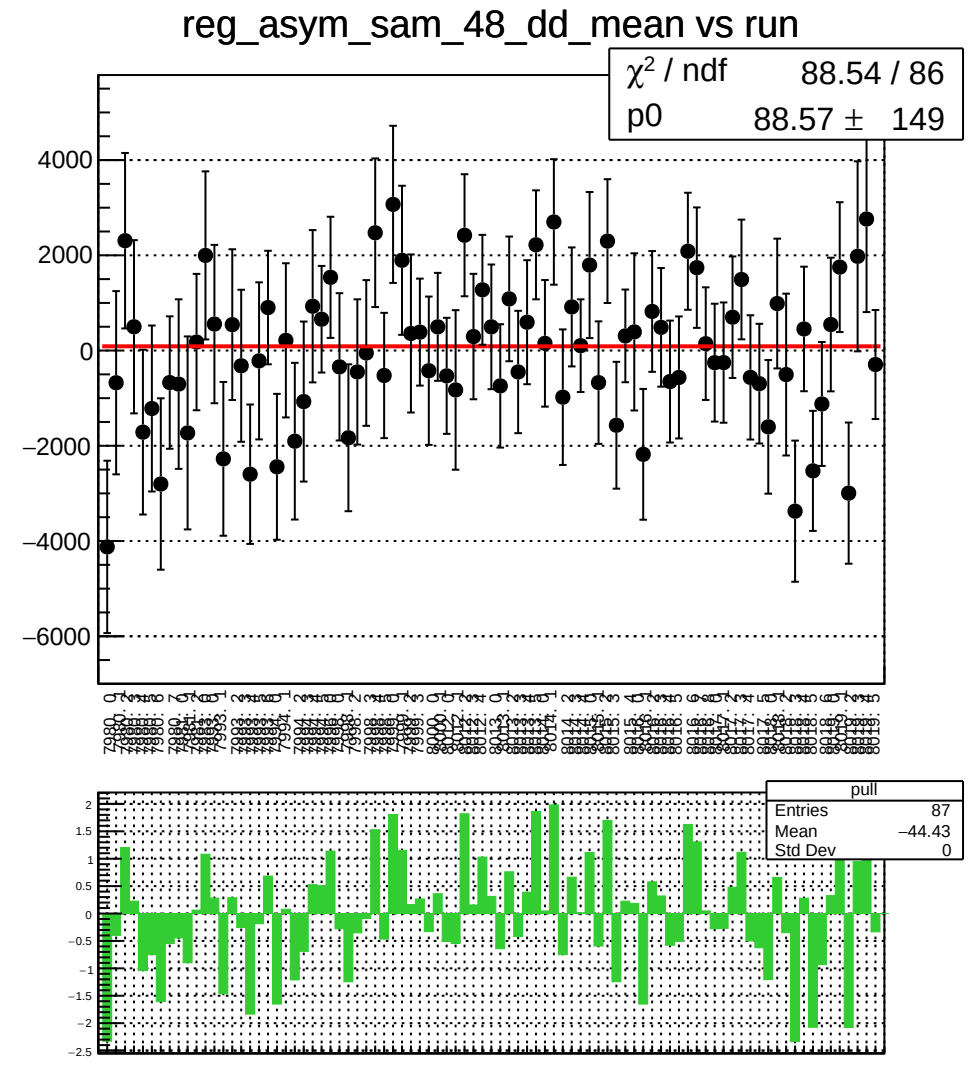

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.07 / 86
p0 −0.01983 ± 0.0435
pull
Entries 87
Mean −2.699
Std Dev 0
pull1D
Entries 87
Mean 0.1179
Std Dev 1.044

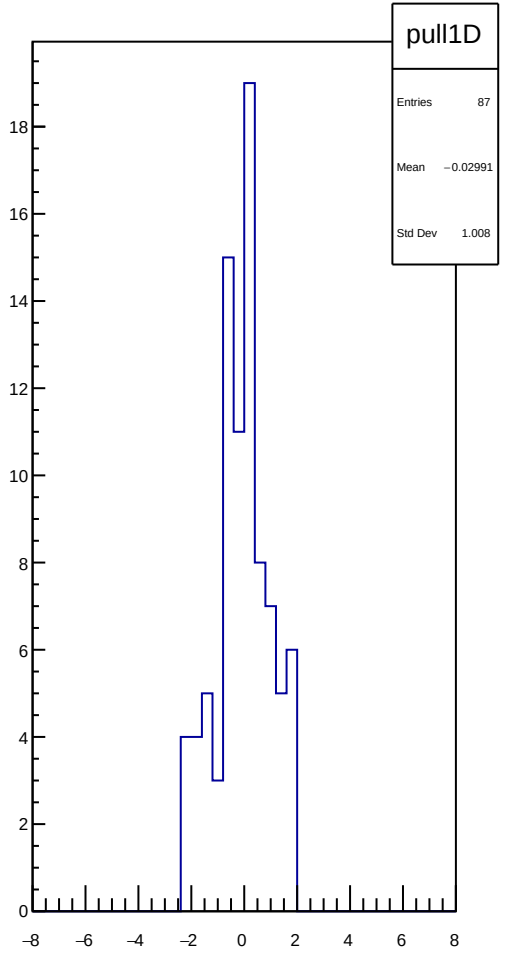

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.042e+05 / 86
p0 31.62 ± 0.03076
450
400
350
300
250
200
150
100
50

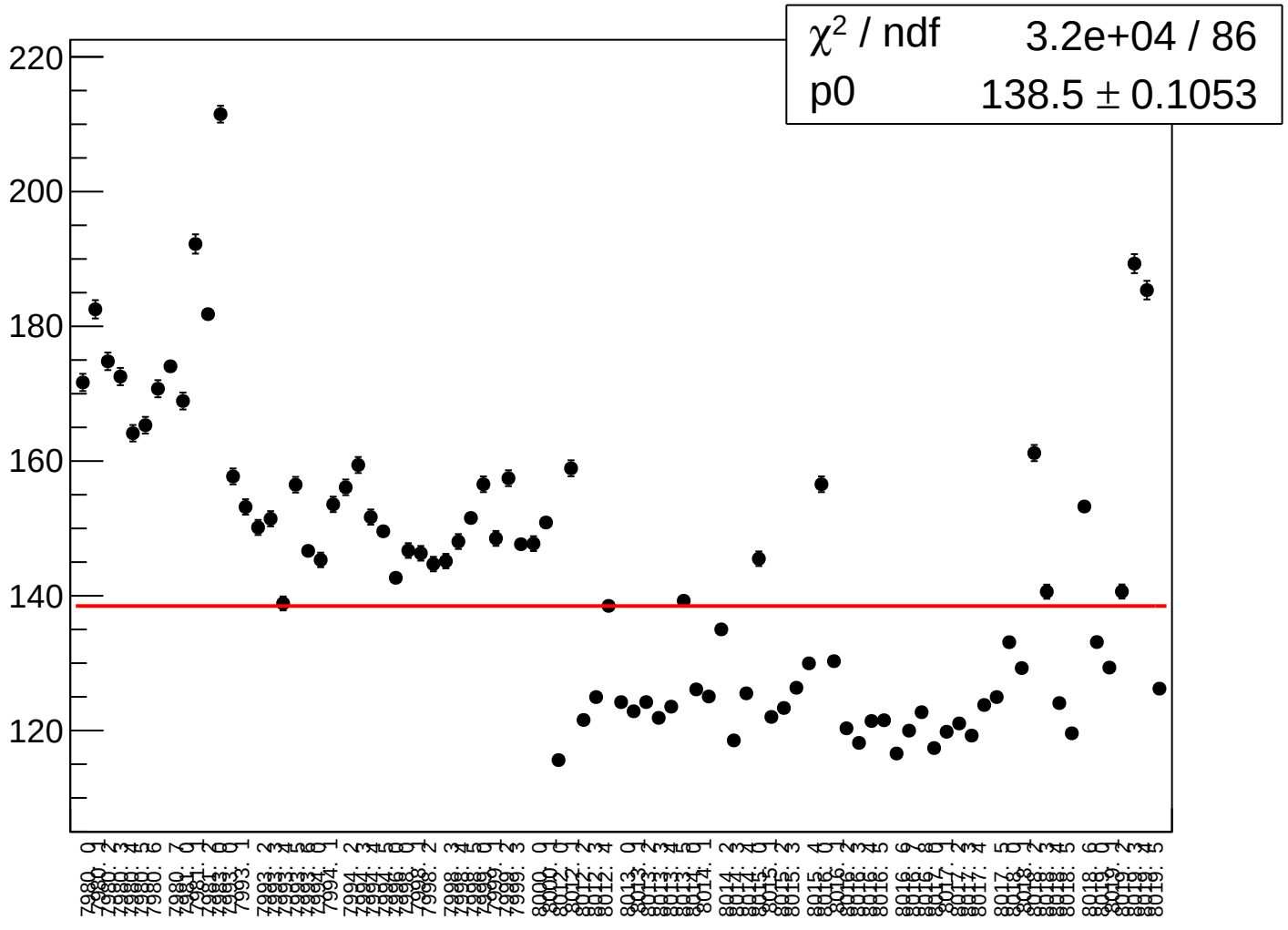

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.15 / 86
p0 3.494e−14 ± 3.46e−14
pull
Entries 87
Mean 34.95
Std Dev 5.748

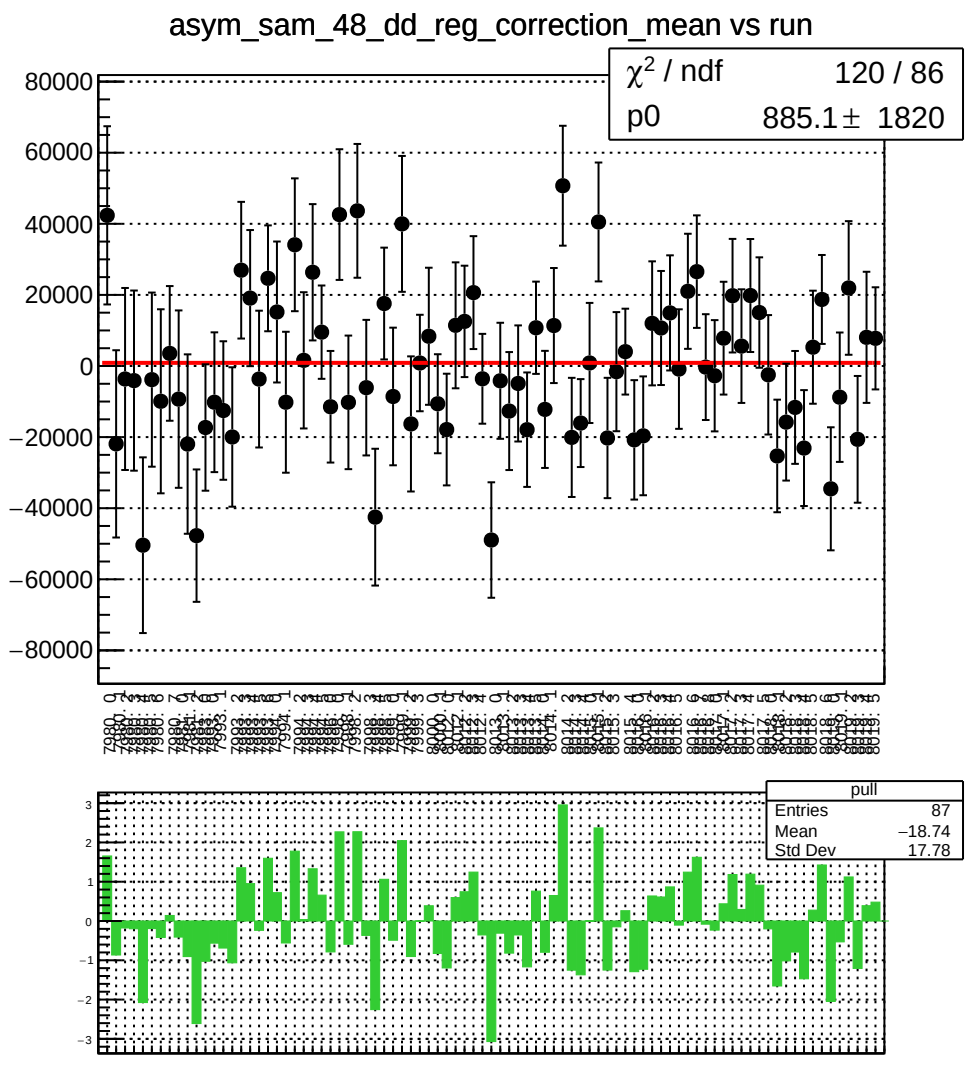

pull1D
Entries 87
Mean 0.03132
Std Dev 1.006

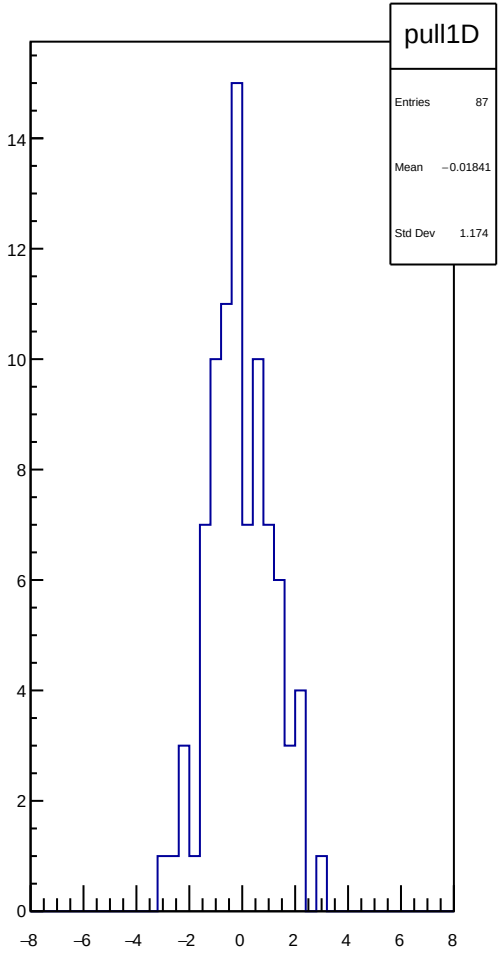

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.033e+06 / 86
p0 2.087e−11 ± 2.446e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

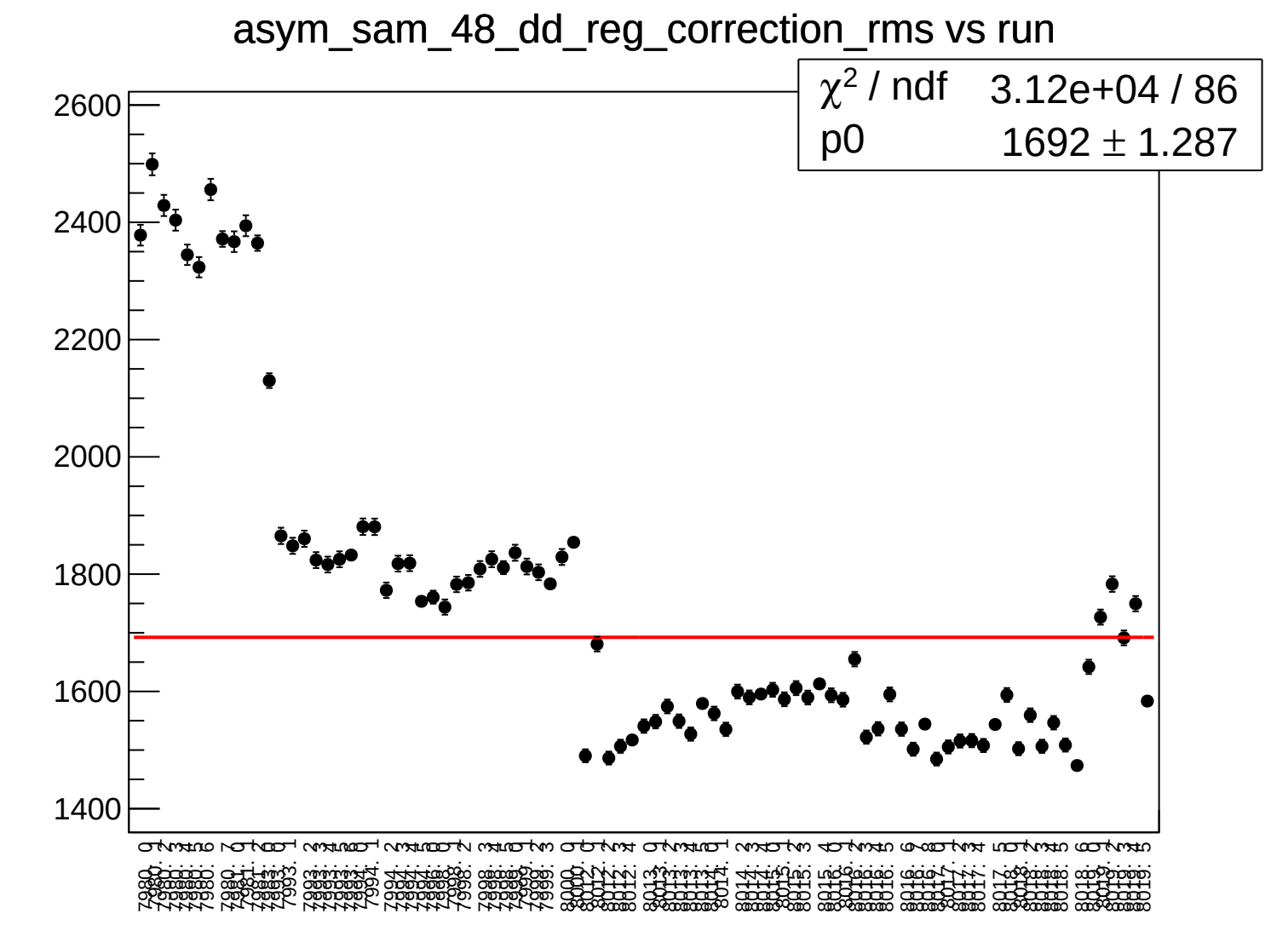

reg_asym_sam_48_dd_mean vs run
χ² / ndf 88.54 / 86
p0 88.57 ± 149
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −44.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

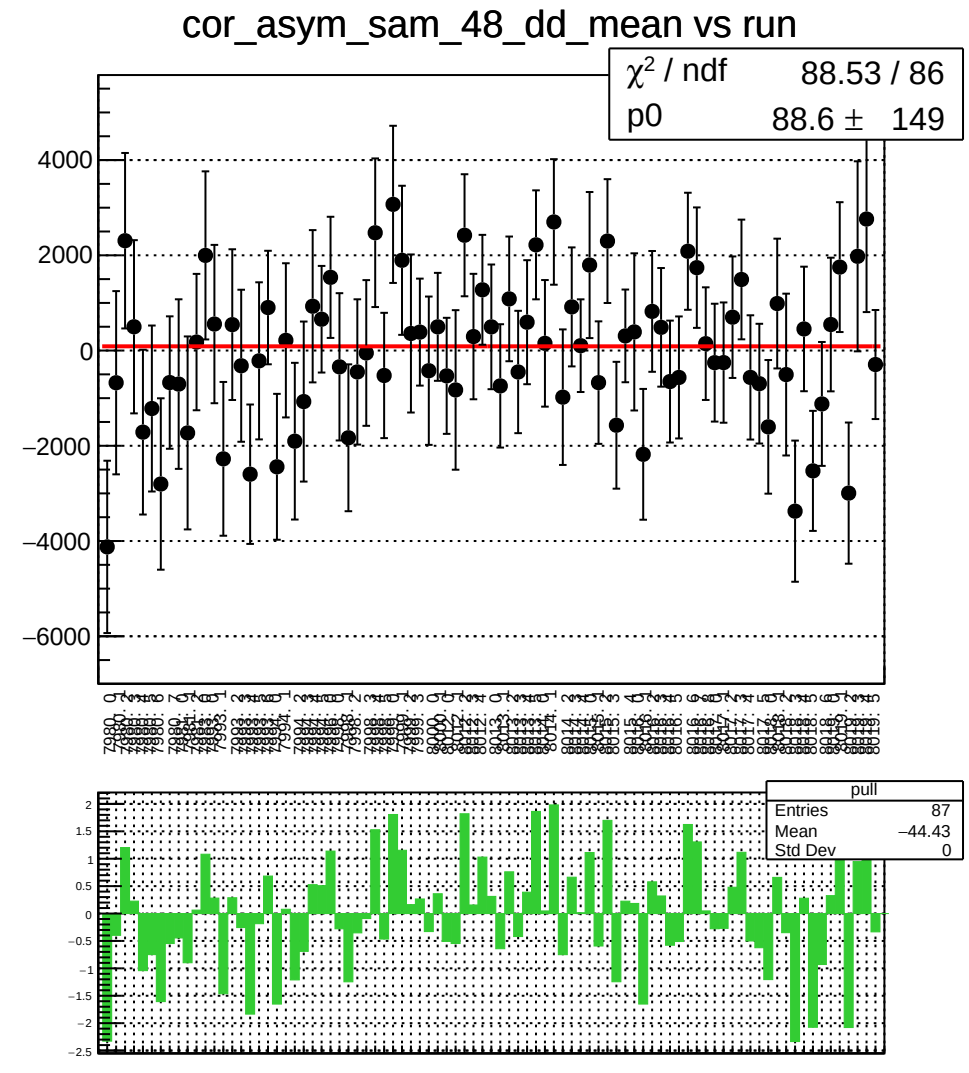

pull1D
Entries 87
Mean −0.02991
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

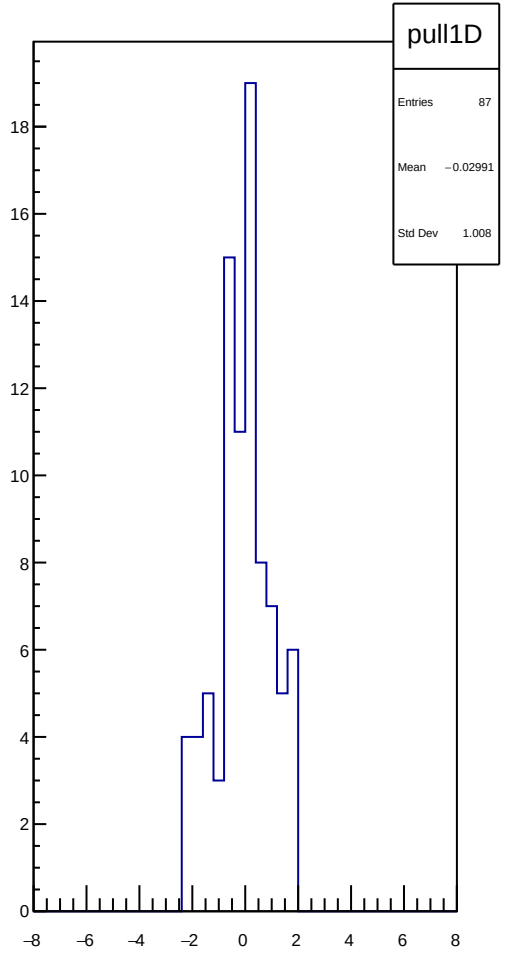

reg_asym_sam_48_dd_rms vs run
χ² / ndf 3.2e+04 / 86
p0 138.5 ± 0.1053
220
200
180
160
140
120

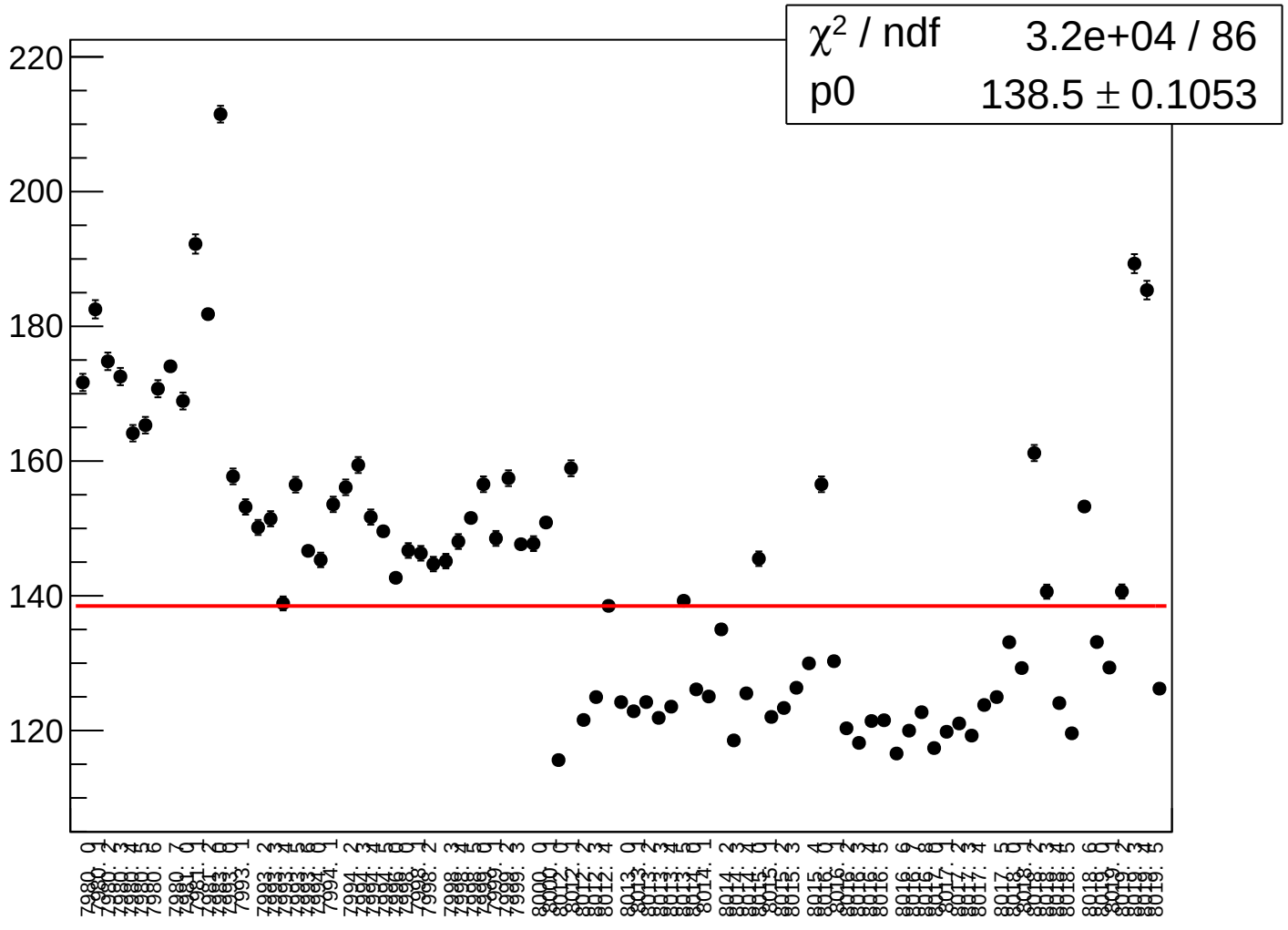

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 120 / 86
p0 885.1± 1820
pull
Entries 87
Mean −18.74
Std Dev 17.78

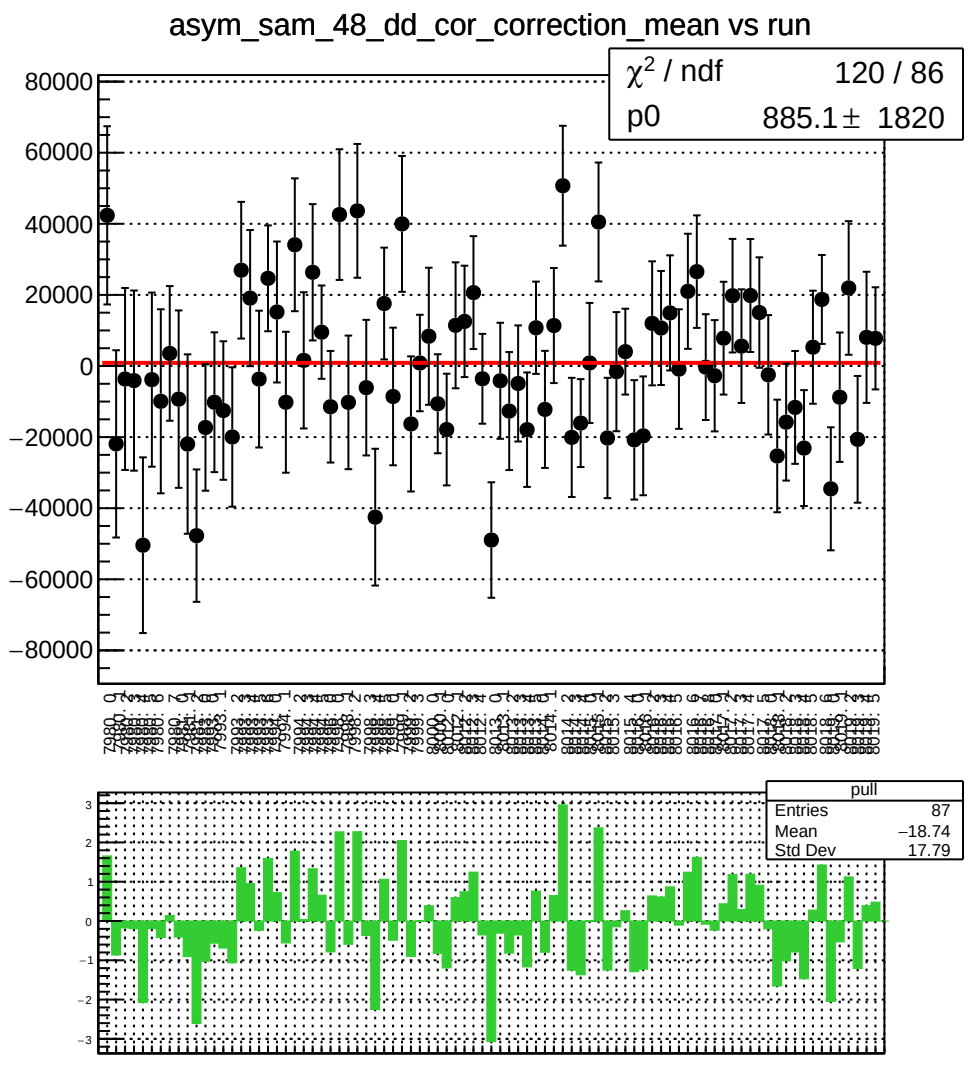

pull1D
Entries 87
Mean −0.01841
Std Dev 1.174

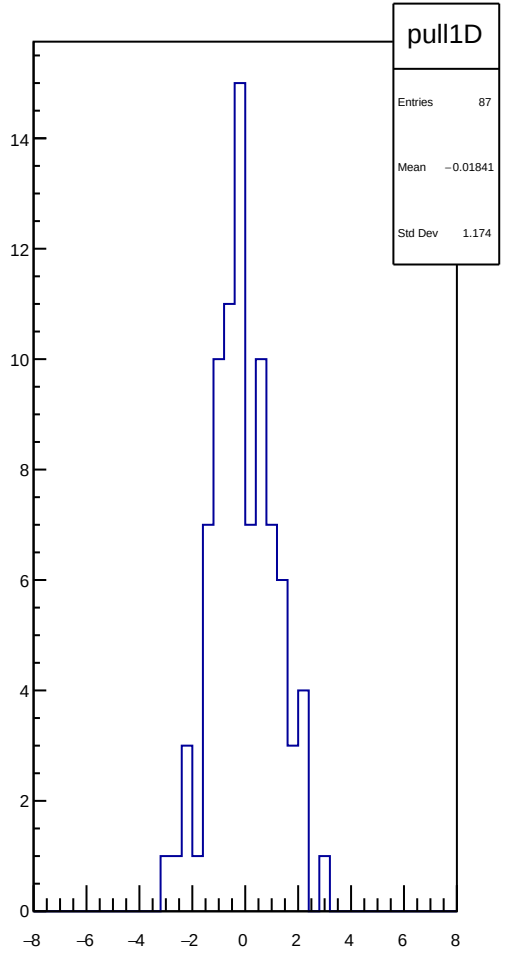

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 3.12e+04 / 86
p0 1692 ± 1.287
2600
2400
2200
2000
1800
1600
1400

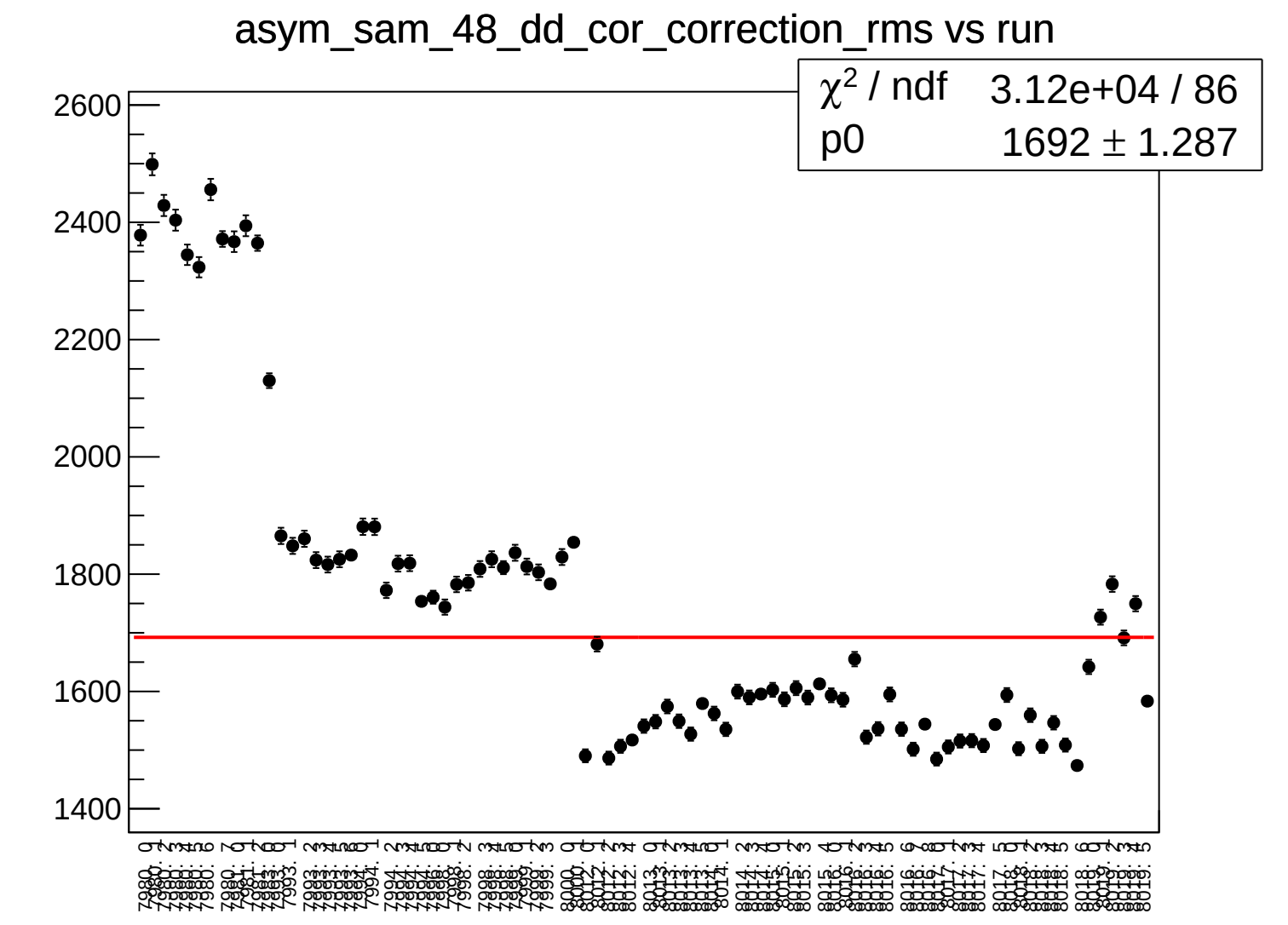

cor_asym_sam_48_dd_mean vs run
χ² / ndf 88.53 / 86
p0 88.6 ± 149
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −44.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

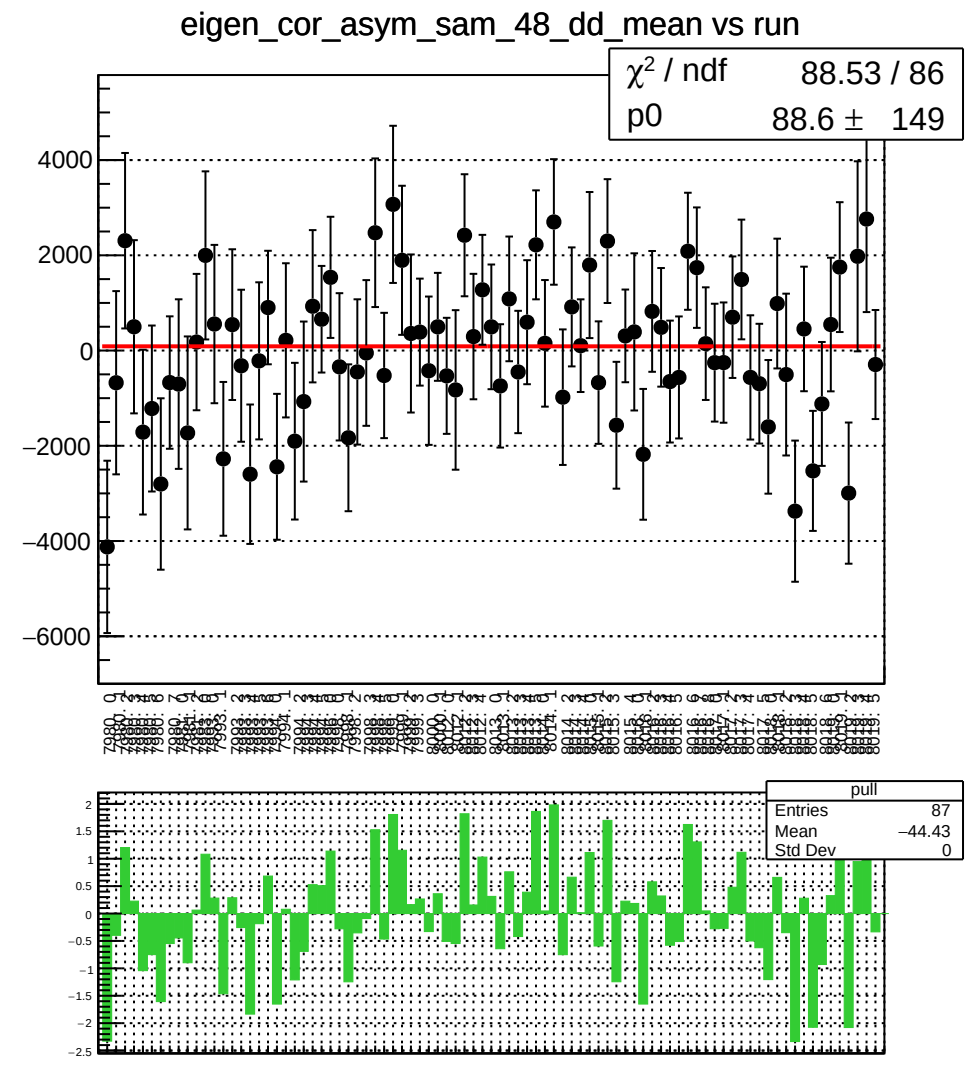

pull1D
Entries 87
Mean −0.02991
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

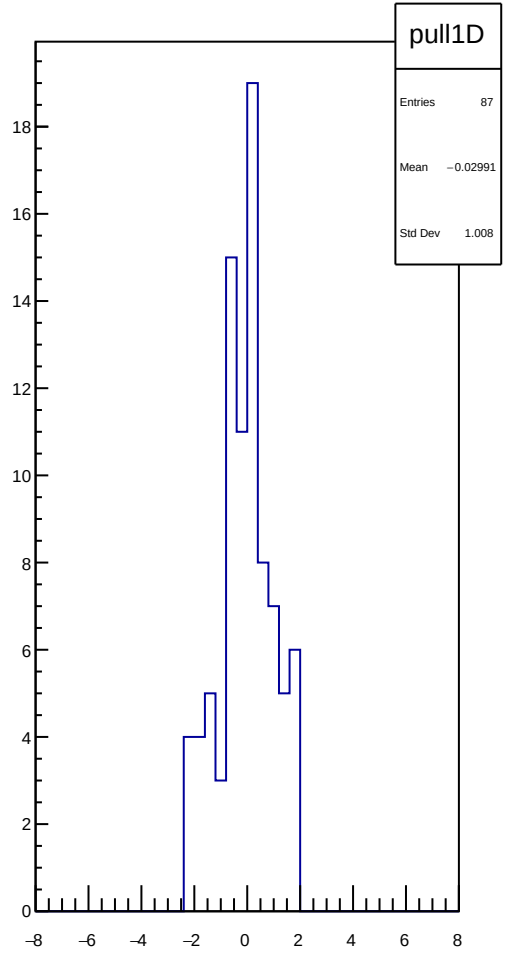

cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 3.2e+04 / 86
p0 138.5 ± 0.1053
220
200
180
160
140
120

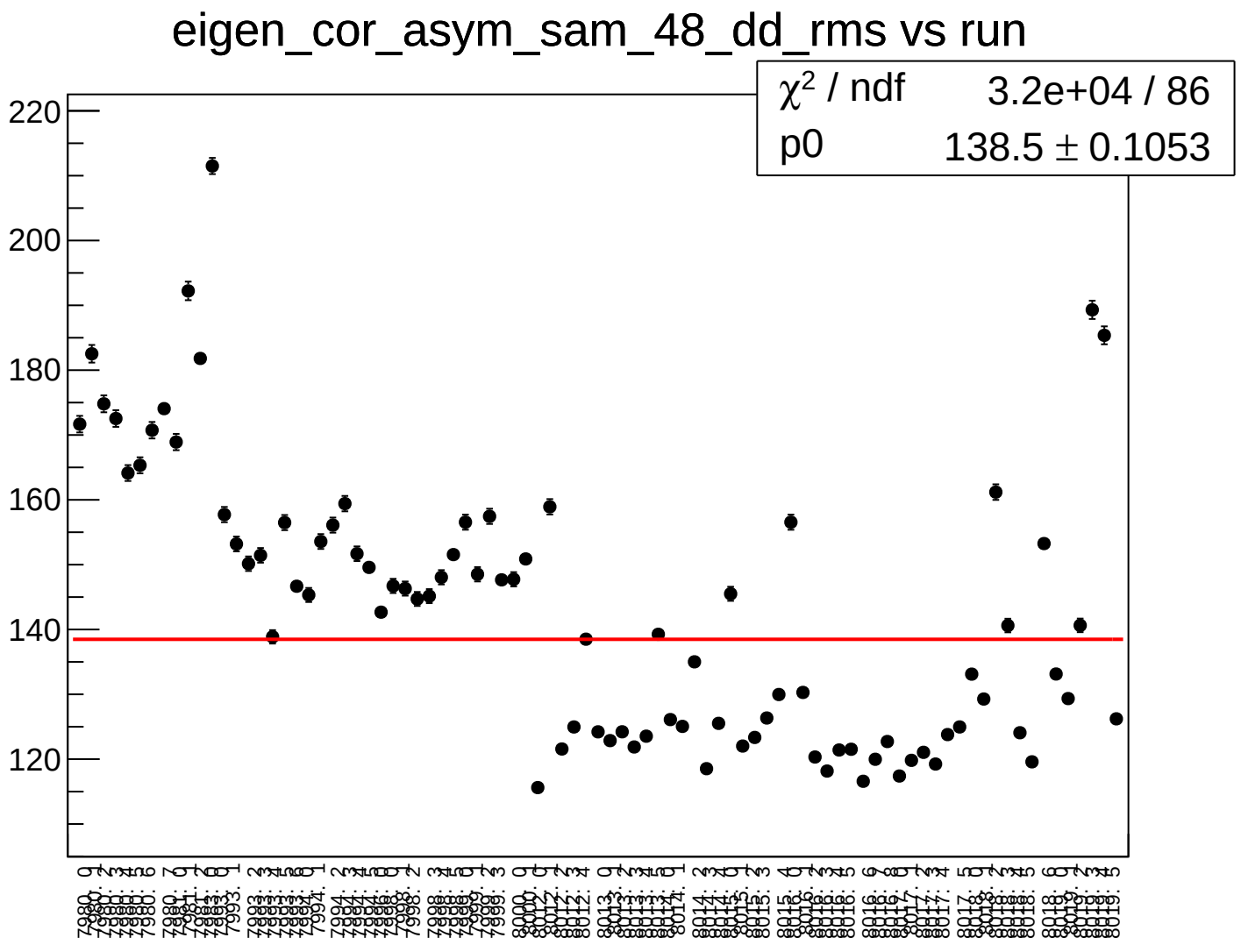

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 120 / 86
p0 885.1 ± 1820
pull
Entries 87
Mean −18.74
Std Dev 17.79

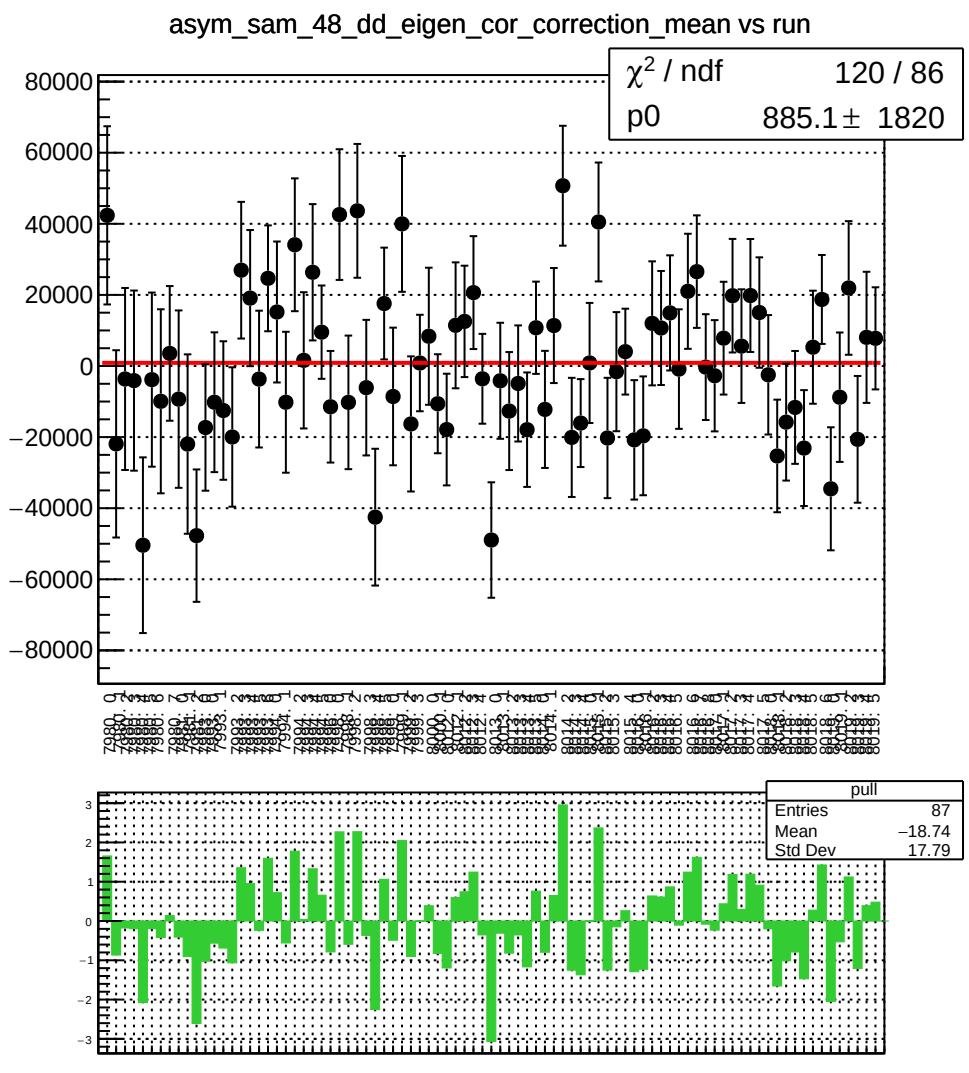

pull1D
Entries 87
Mean −0.01841
Std Dev 1.174

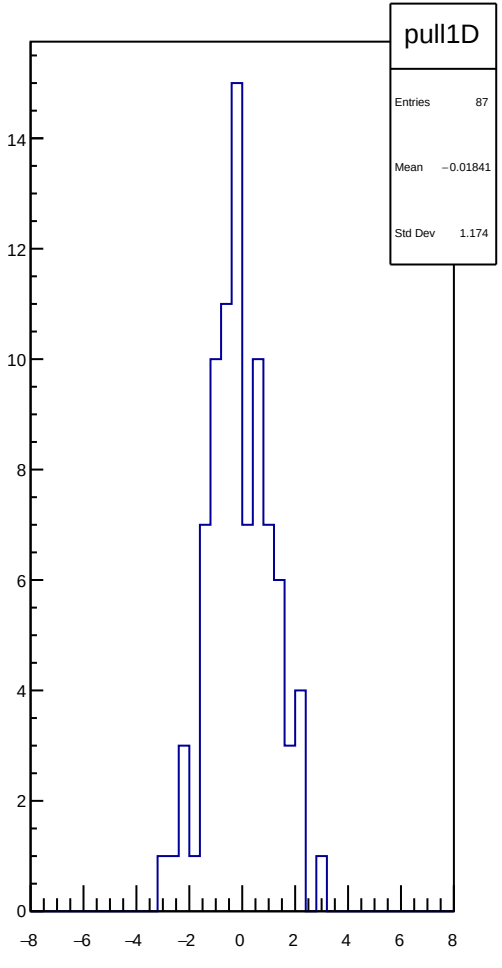

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 3.12e+04 / 86
p0 1692 ± 1.287
2600
2400
2200
2000
1800
1600
1400

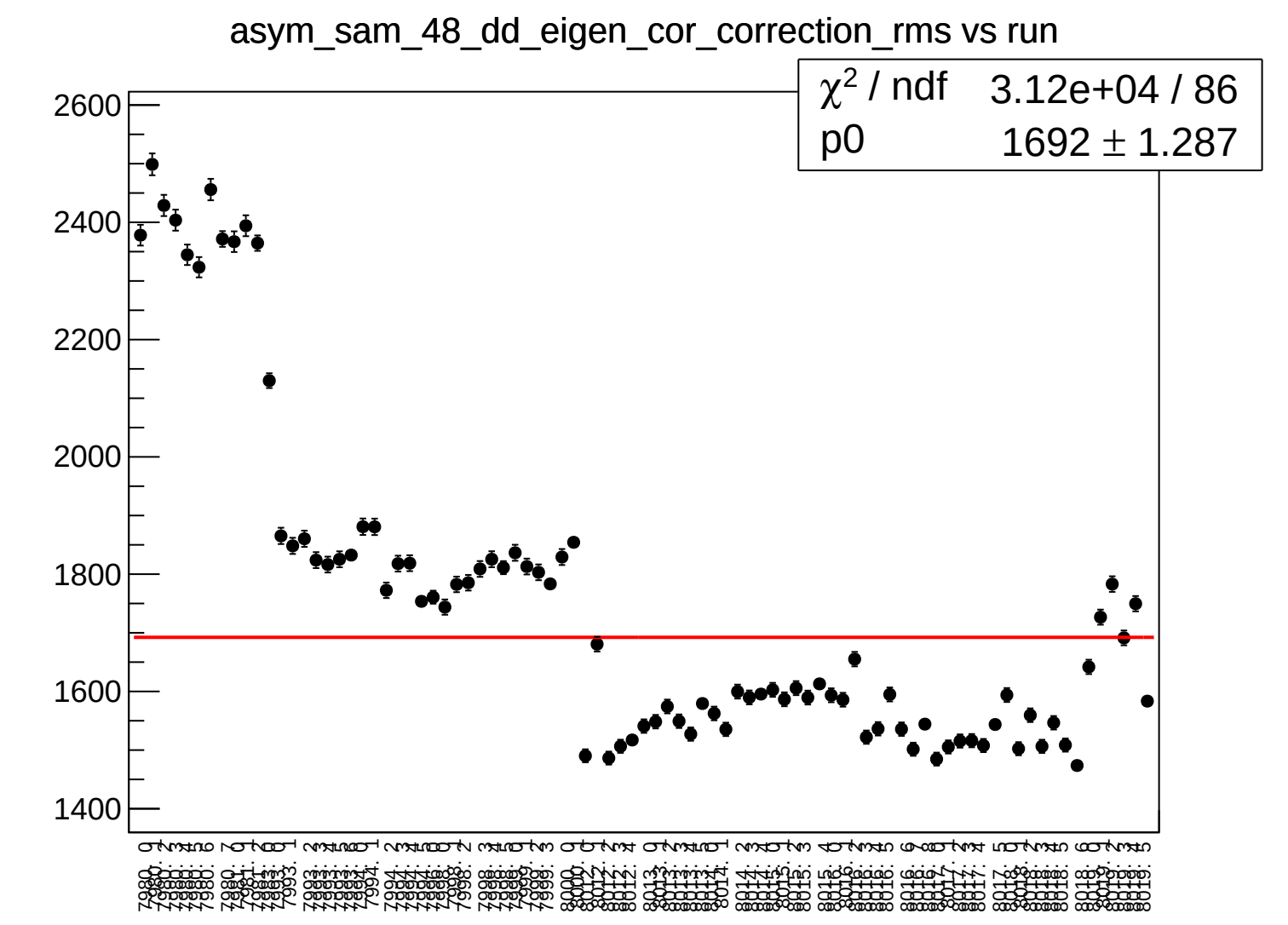

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 88.53 / 86
p0 88.6 ± 149
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −44.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

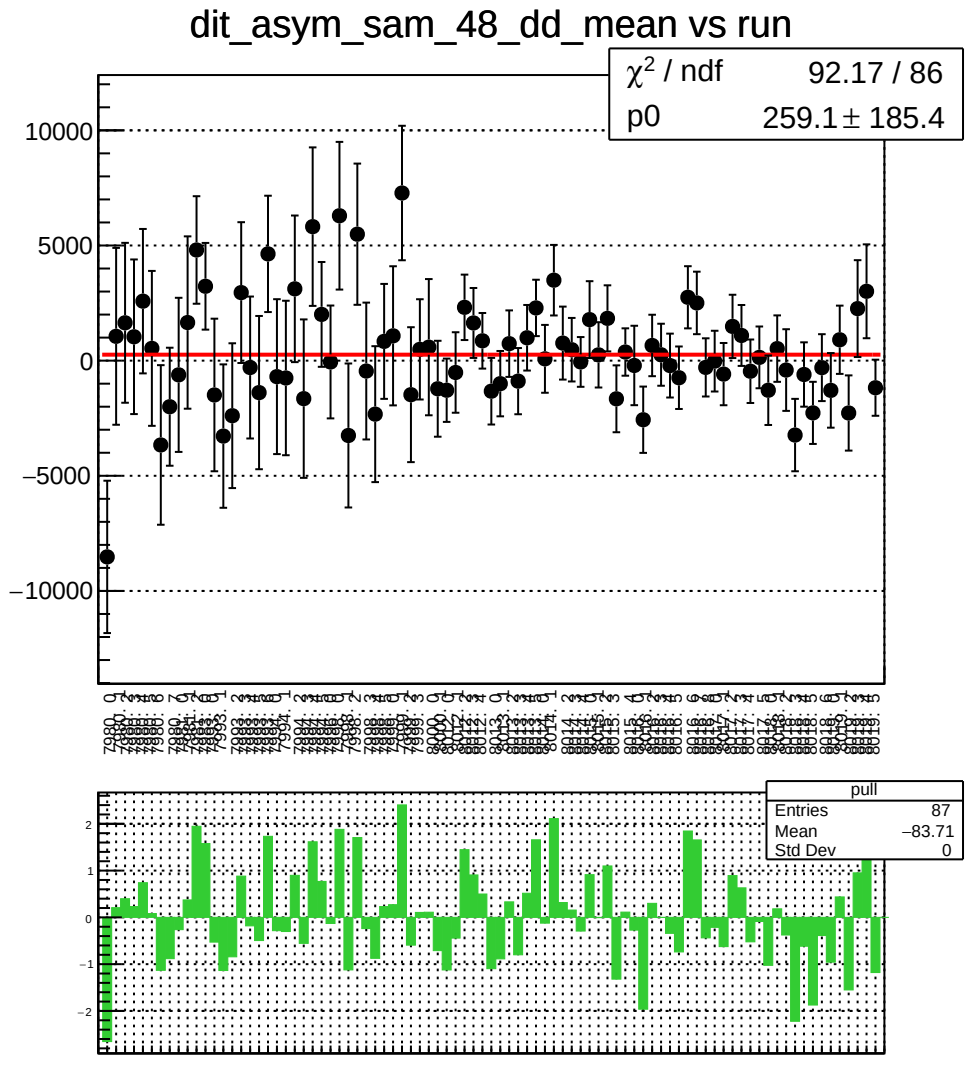

pull1D
Entries 87
Mean −0.02991
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

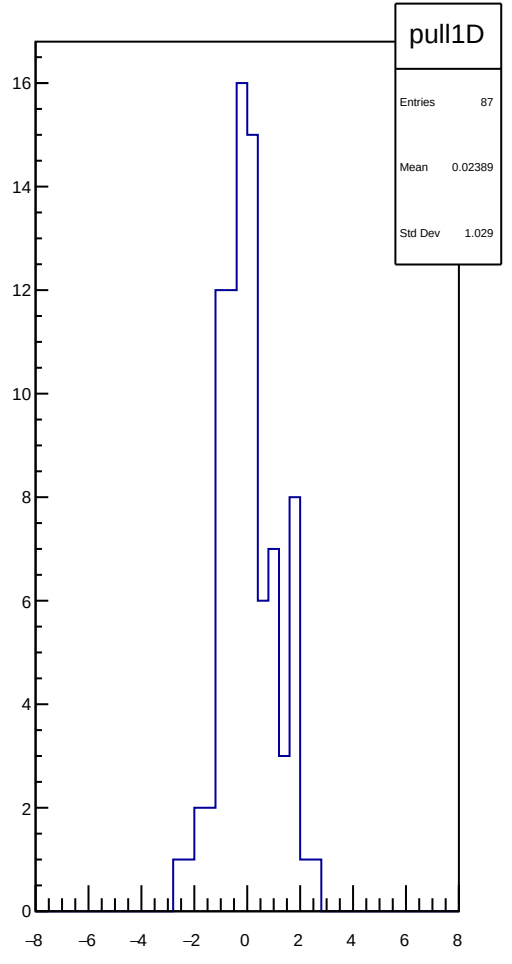

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 3.2e+04 / 86
p0 138.5 ± 0.1053
220
200
180
160
140
120

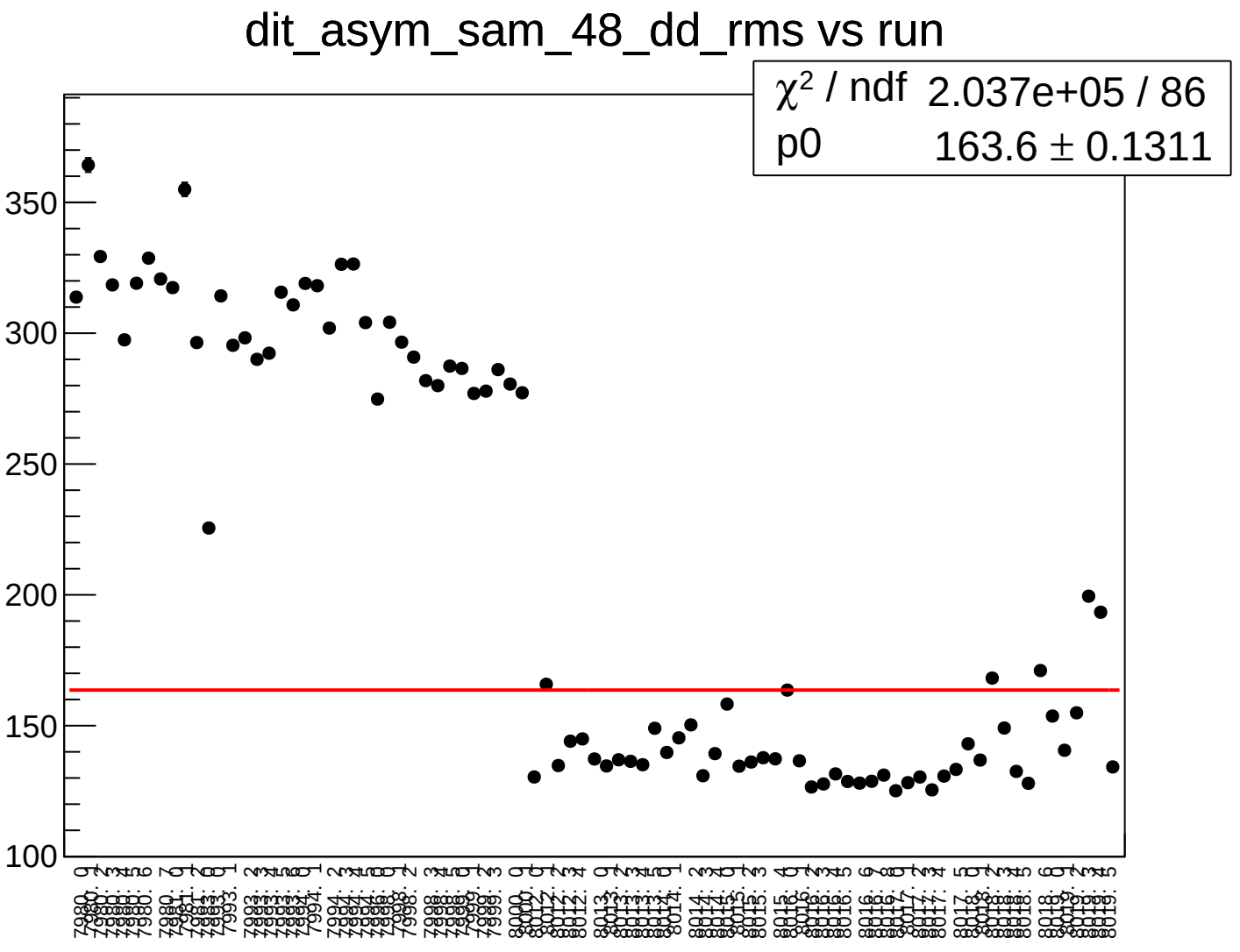

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 120 / 86
p0 885.1± 1820
pull
Entries 87
Mean −18.74
Std Dev 17.79

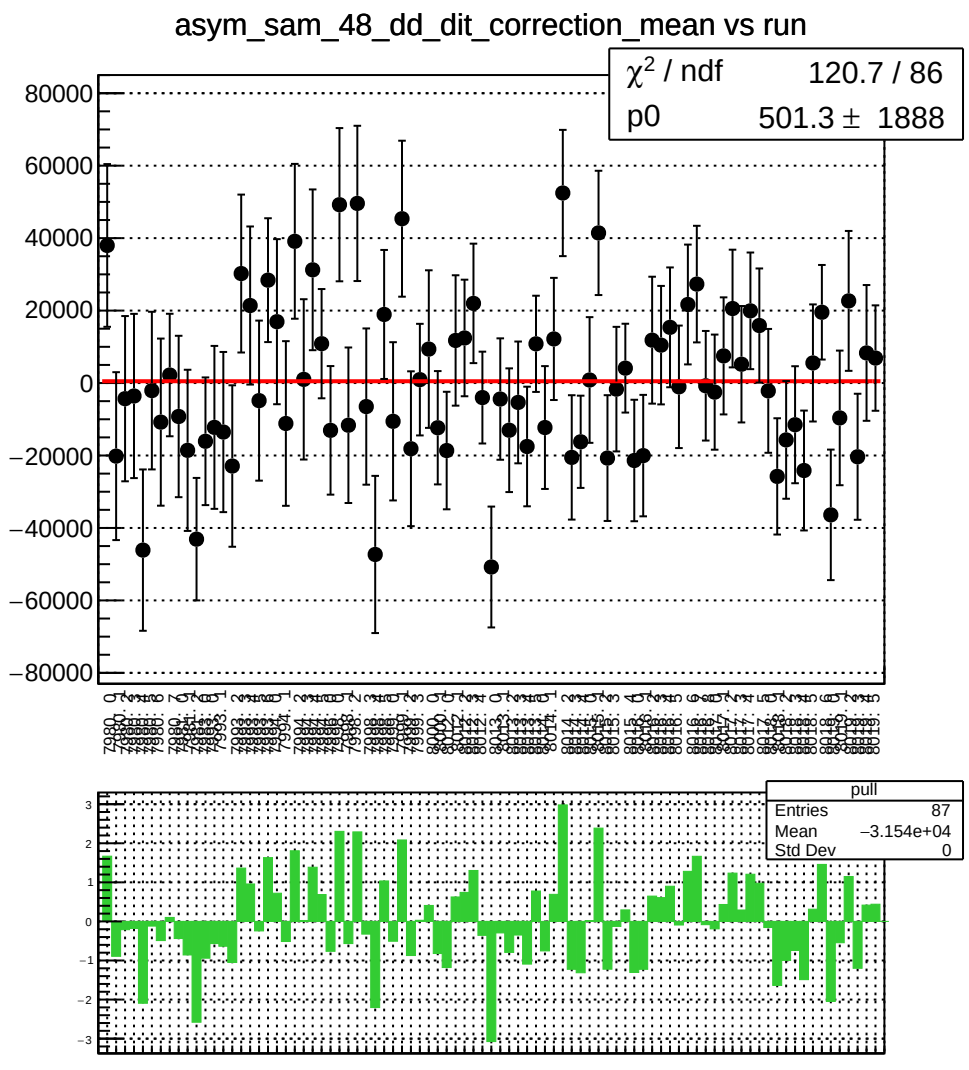

pull1D
Entries 87
Mean −0.01841
Std Dev 1.174

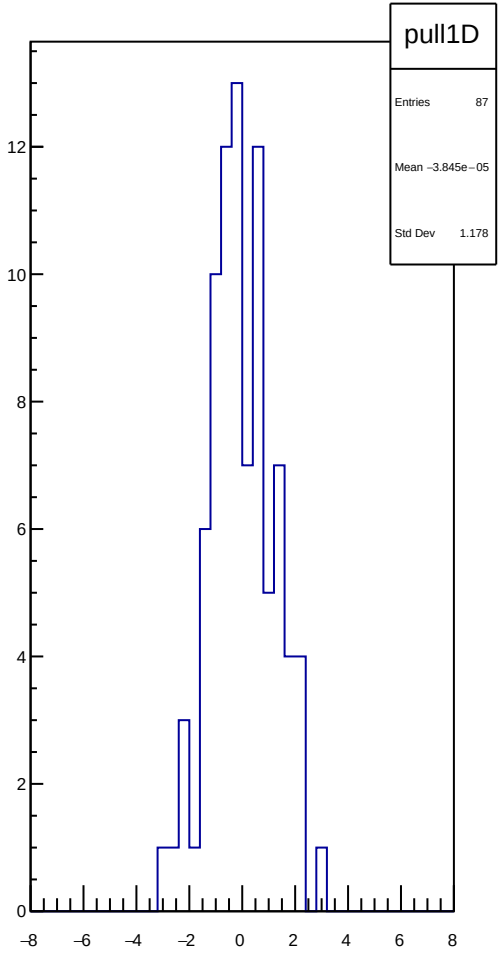

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.12e+04 / 86
p0 1692 ± 1.287
2600
2400
2200
2000
1800
1600
1400

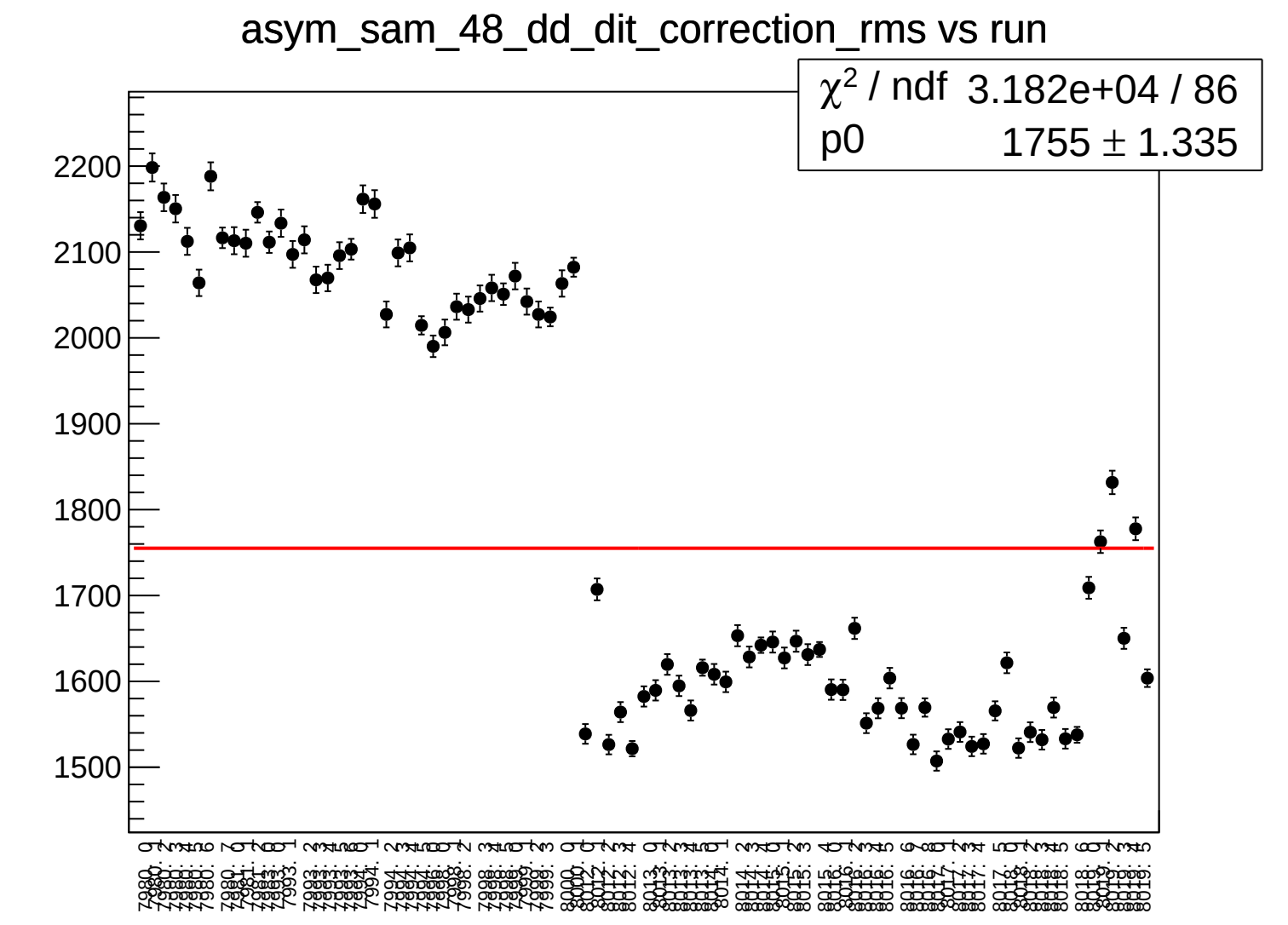

dit_asym_sam_48_dd_mean vs run
χ² / ndf 92.17 / 86
p0 259.1 ± 185.4
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −83.71
Std Dev 0
2
1
0
−1
−2

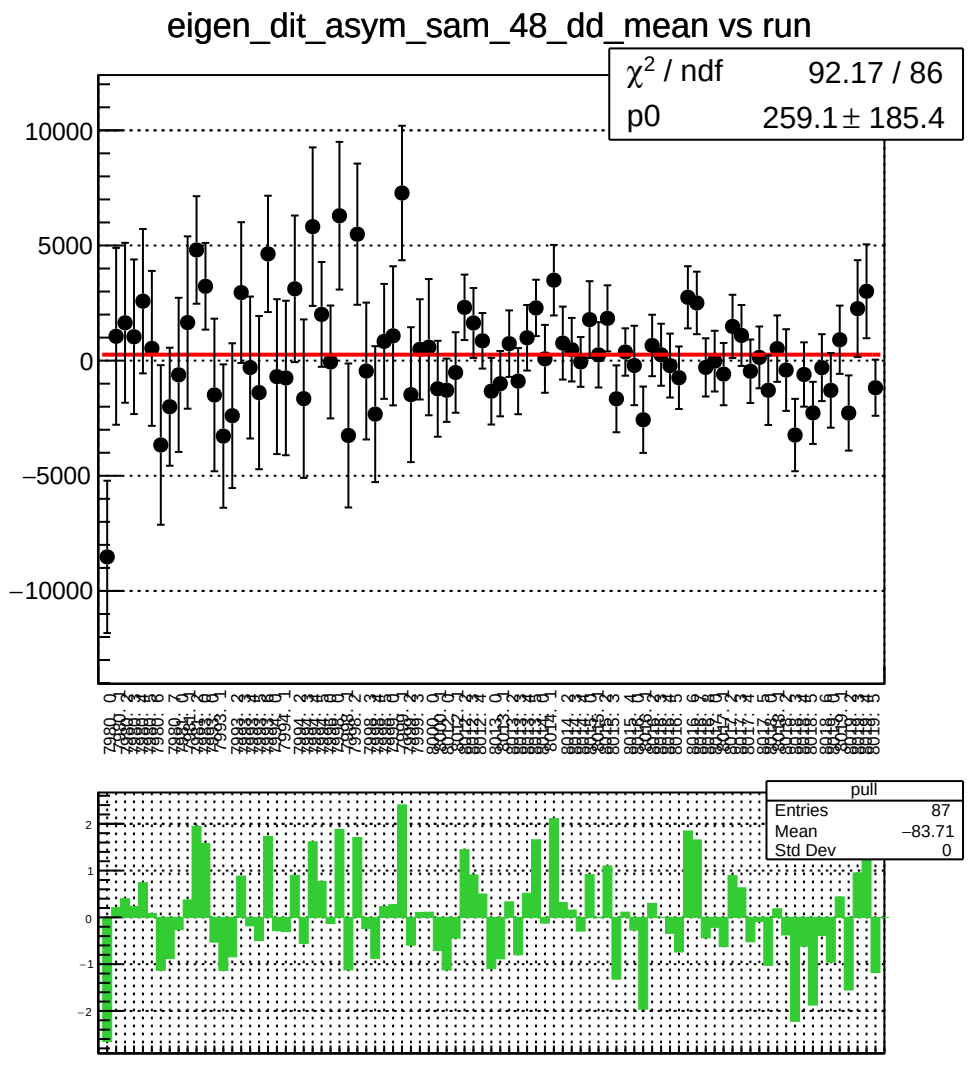

pull1D
Entries 87
Mean 0.02389
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

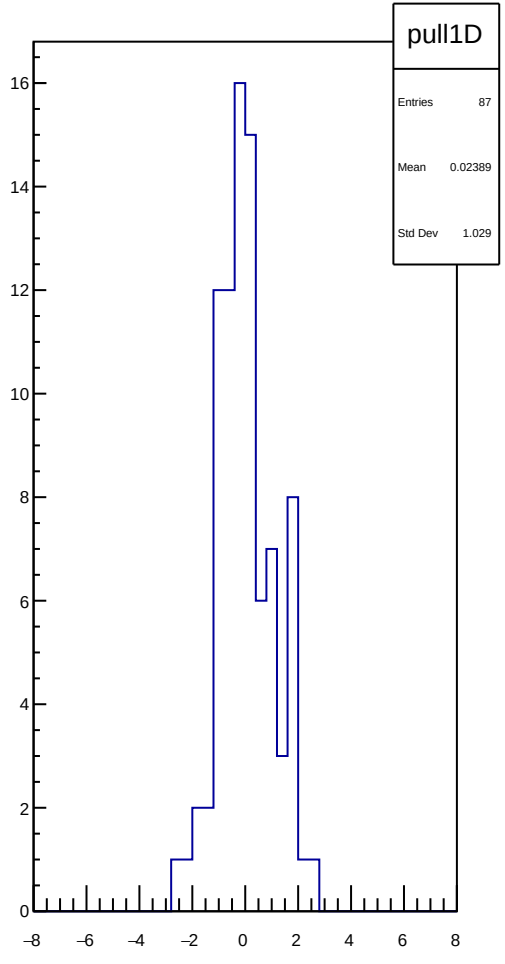

dit_asym_sam_48_dd_rms vs run
χ² / ndf 2.037e+05 / 86
p0 163.6 ± 0.1311
350
300
250
200
150
100

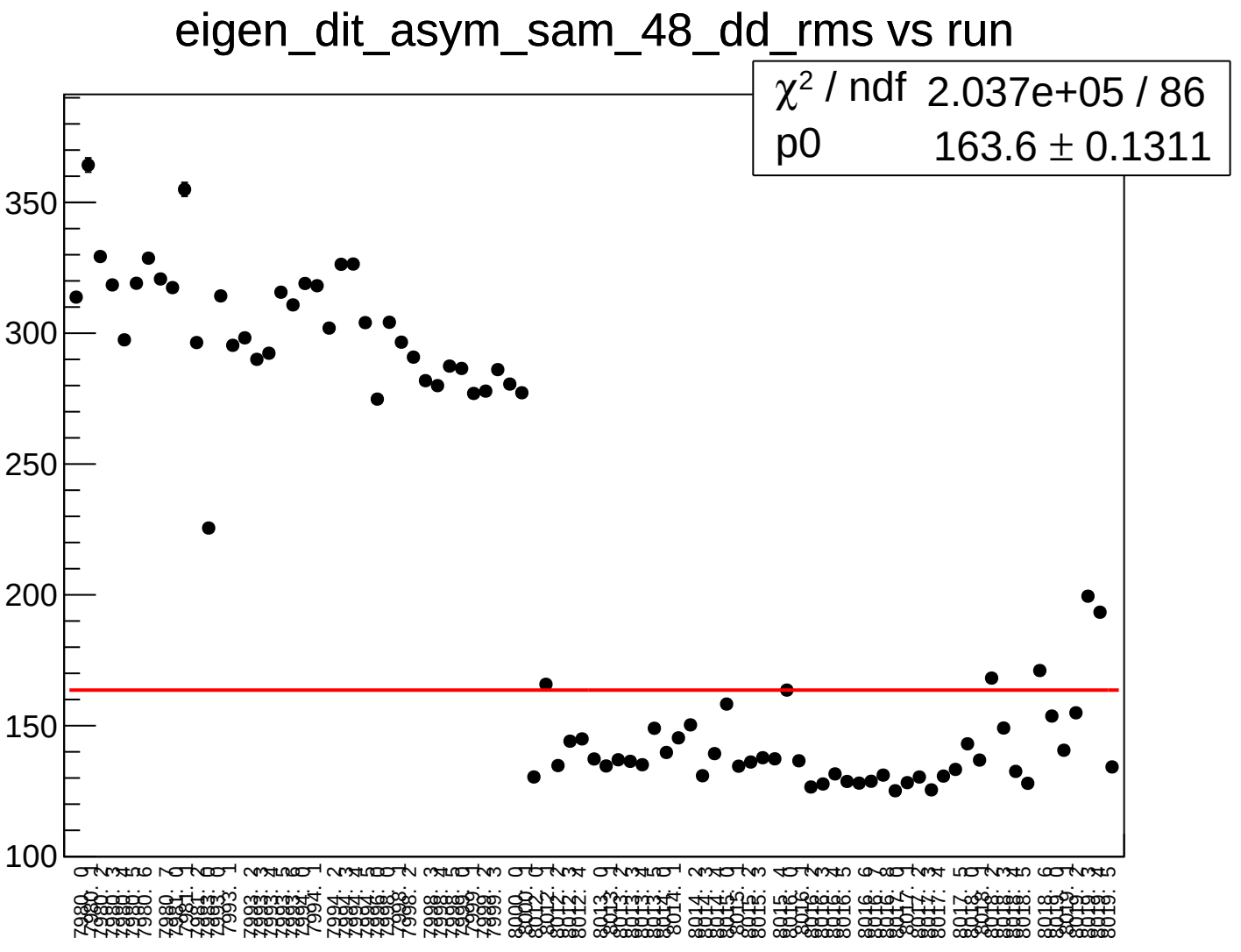

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 120.7 / 86
p0 501.3 ± 1888
pull
Entries 87
Mean −3.154e+04
Std Dev 0


pull1D
Entries 87
Mean −3.845e−05
Std Dev 1.178

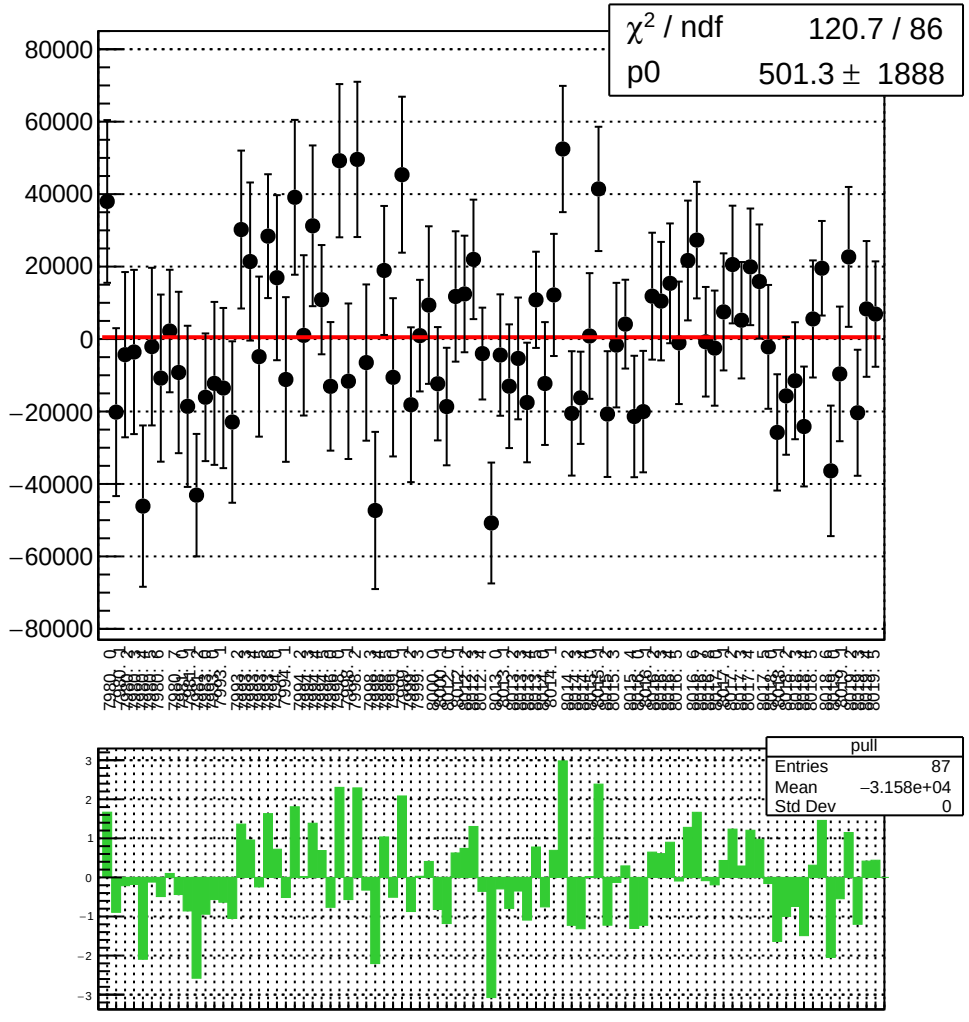

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 3.182e+04 / 86
p0 1755 ± 1.335
2200
2100
2000
1900
1800
1700
1600
1500

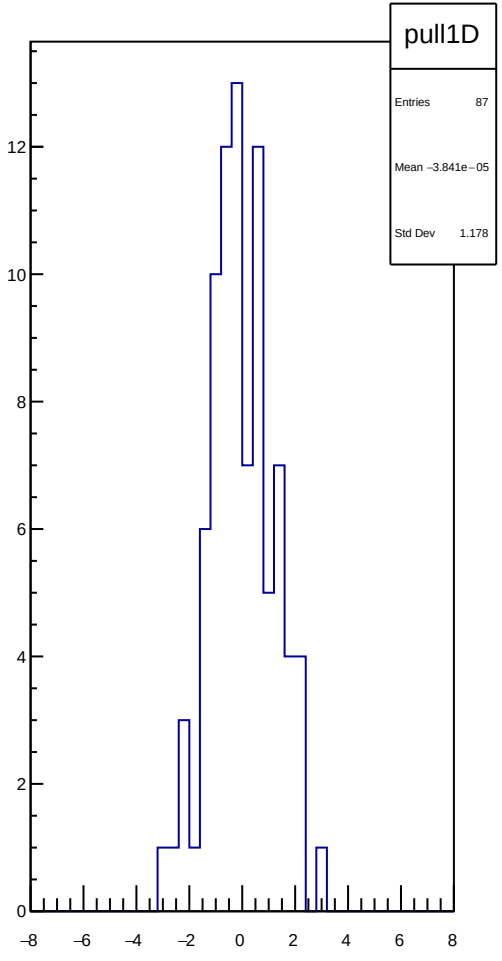

eigen_dit_asym_sam_48_dd_mean vs run
χ^2 / ndf 92.17 / 86
p0 259.1 ± 185.4
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −83.71
Std Dev 0
2
1
0
−1
−2

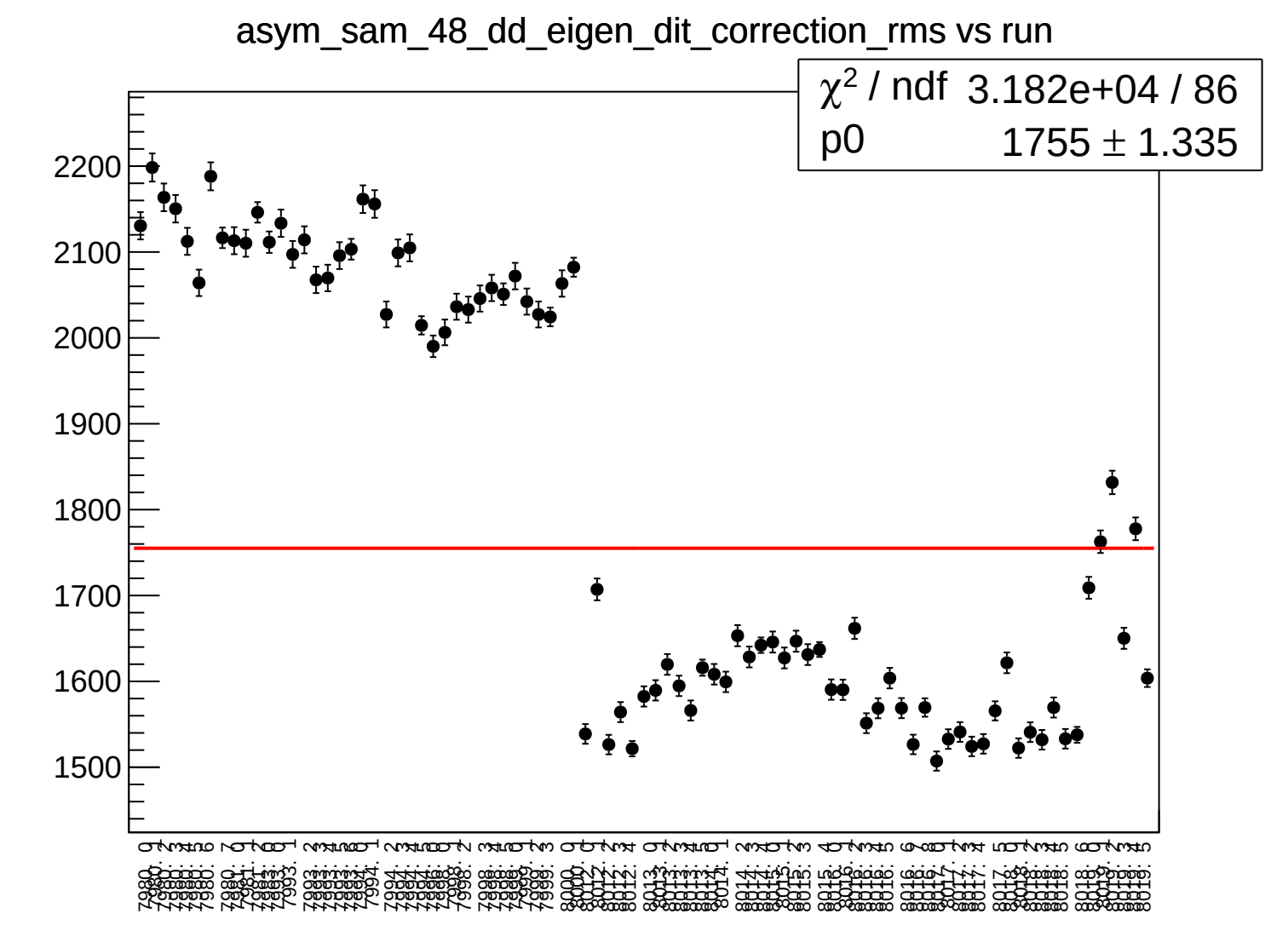

pull1D
Entries 87
Mean 0.02389
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

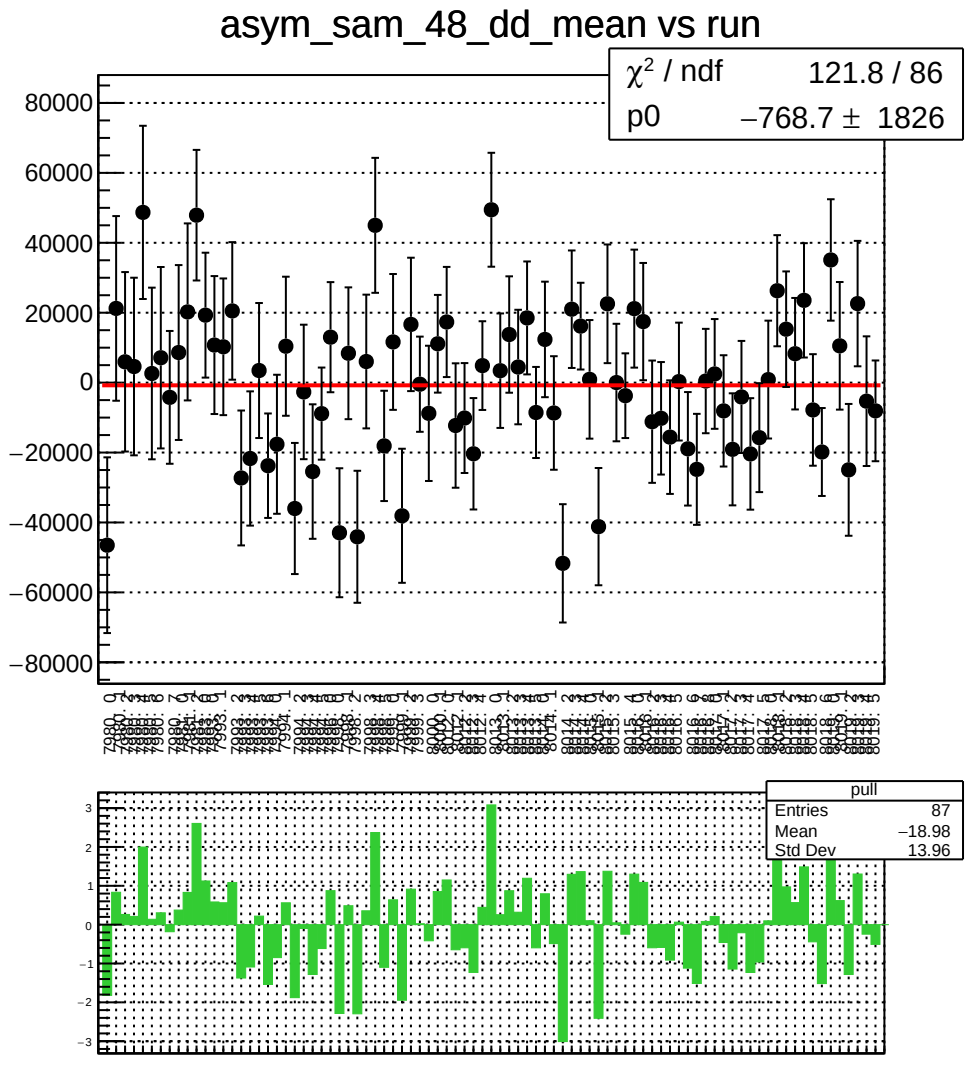

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 2.037e+05 / 86
p0 163.6 ± 0.1311
350
300
250
200
150
100

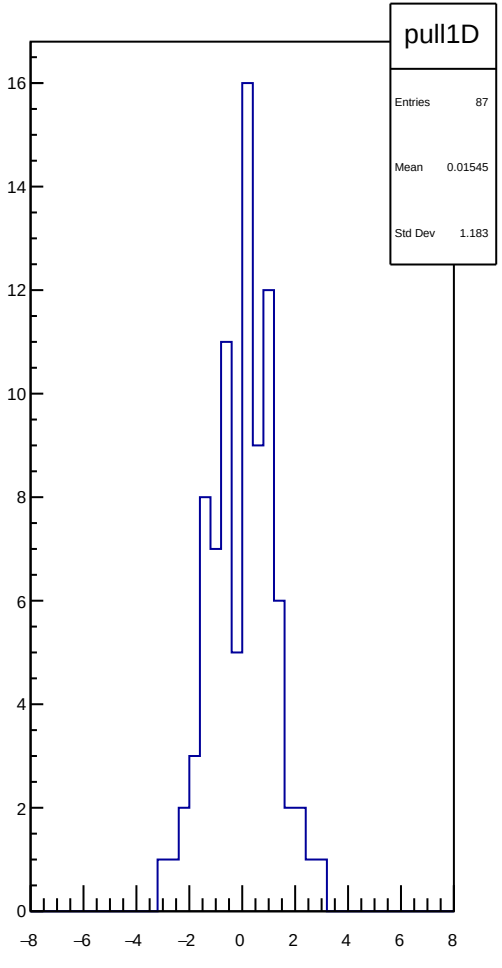
asym_sam_48_dd_eigen_dit_correction_mean vs run

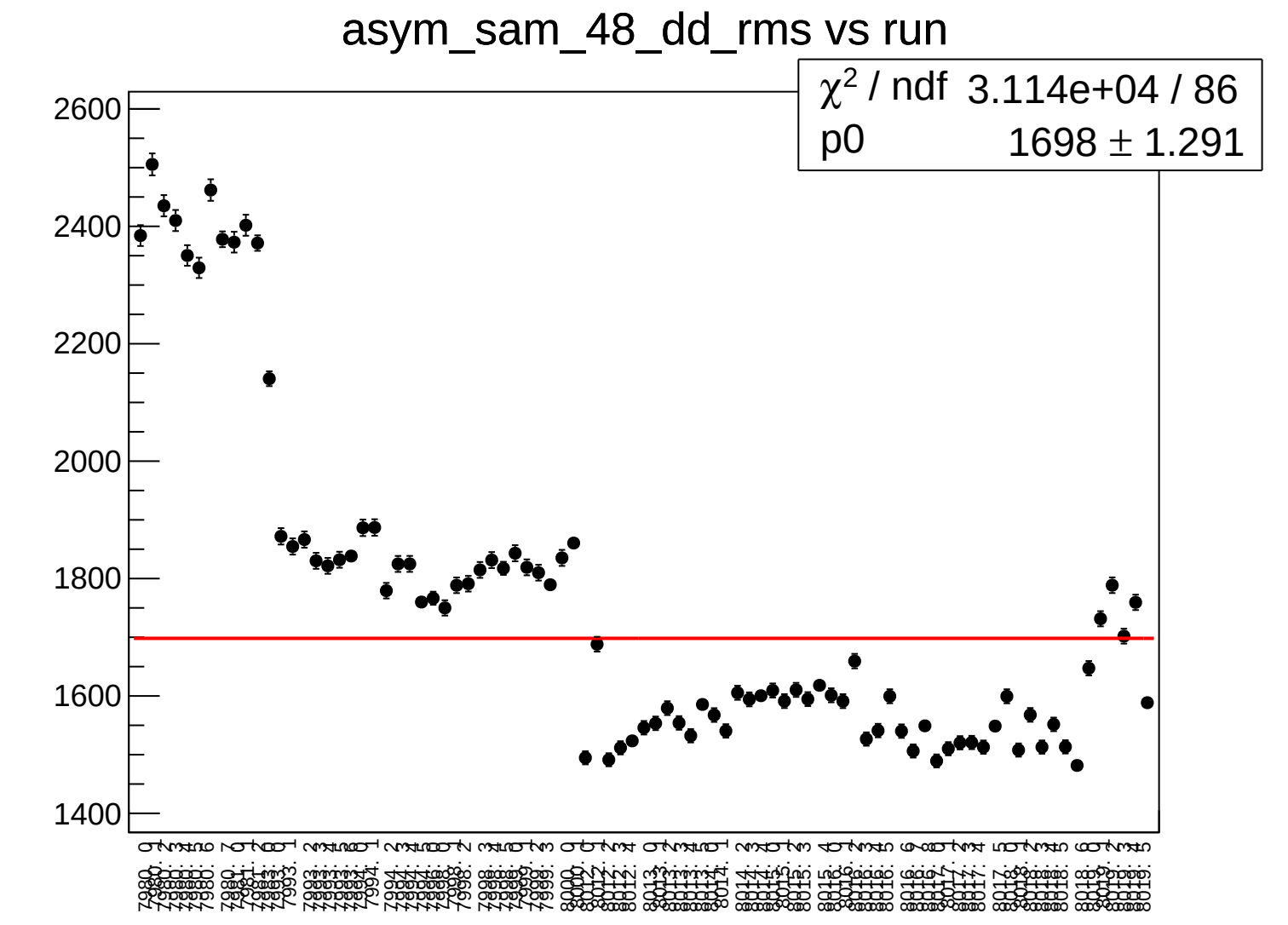


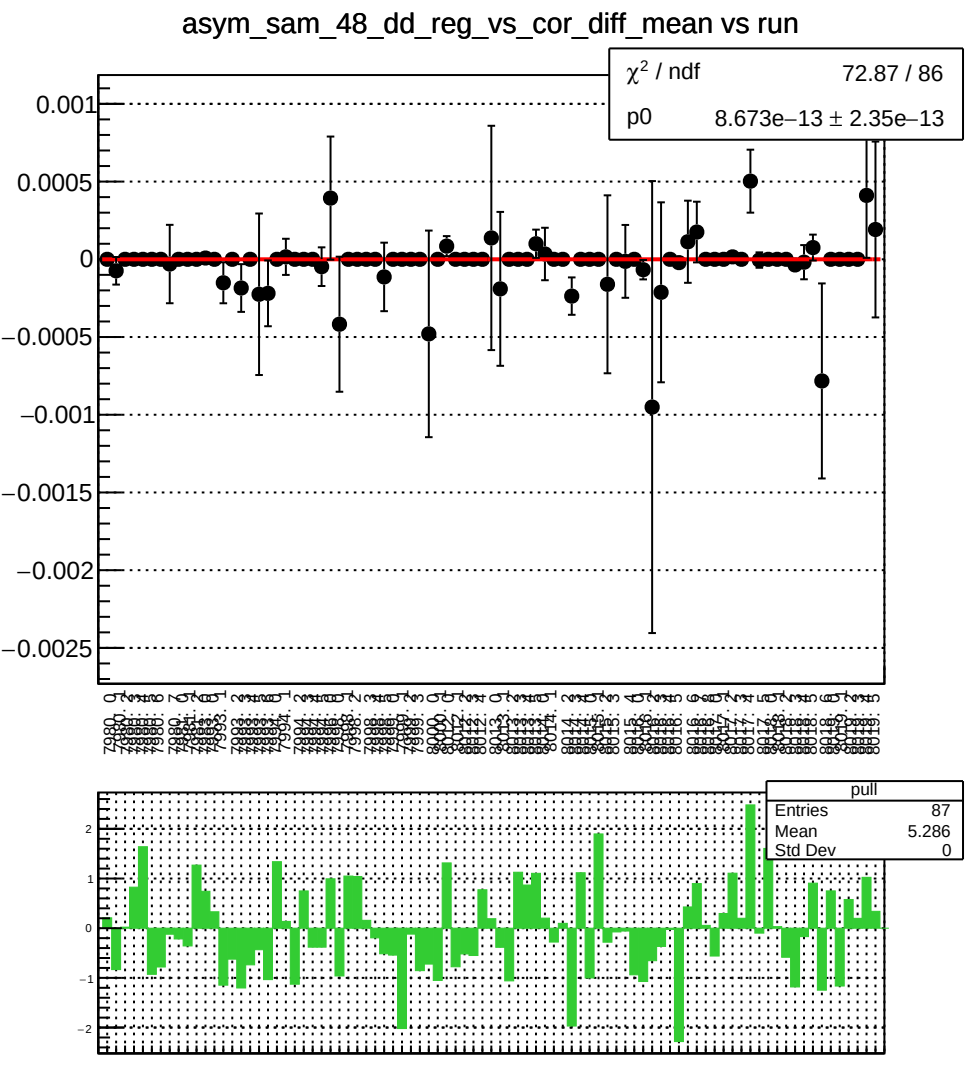


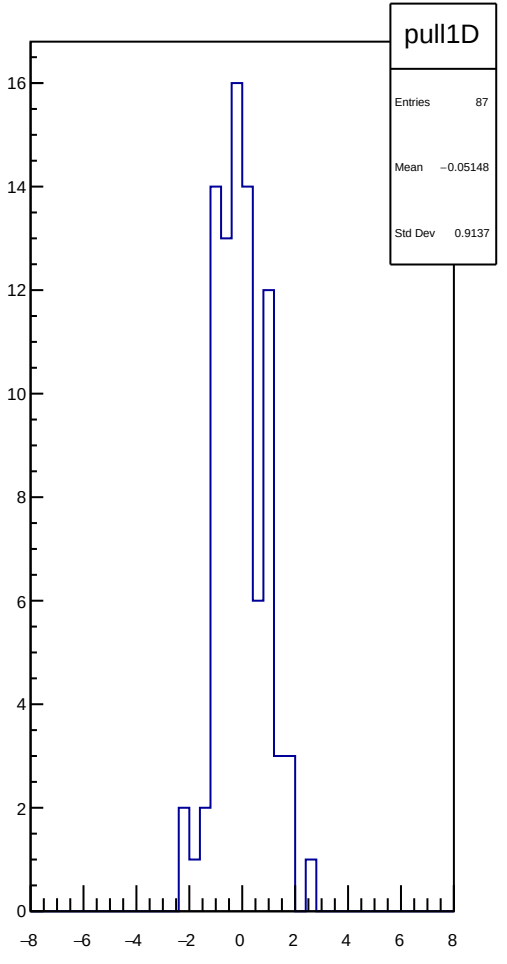

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.182e+04 / 86
p0 1755 ± 1.335
2200
2100
2000
1900
1800
1700
1600
1500

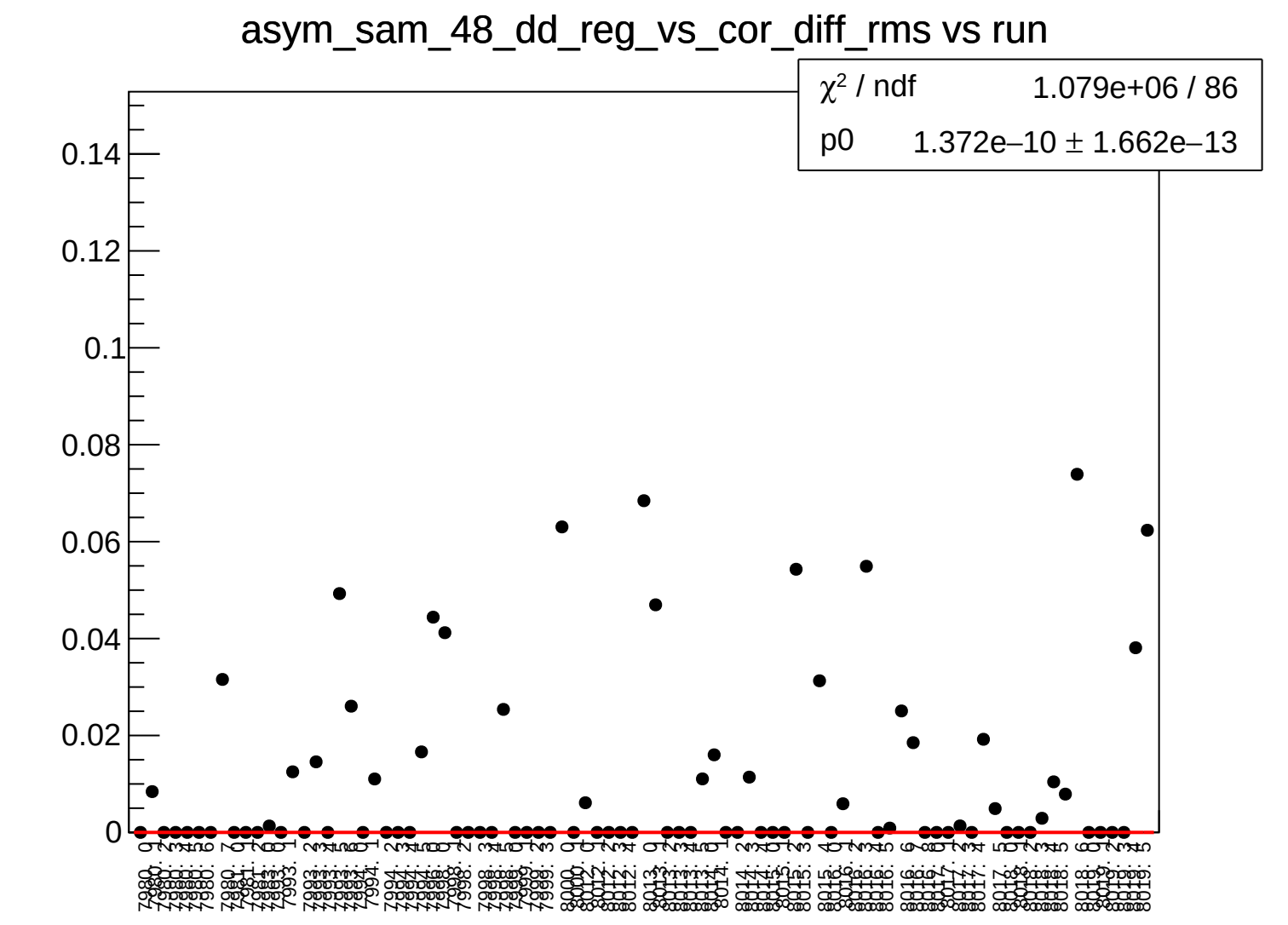

asym_sam_48_dd_mean vs run
χ² / ndf 121.8 / 86
p0 −768.7 ± 1826
pull
Entries 87
Mean −18.98
Std Dev 13.96

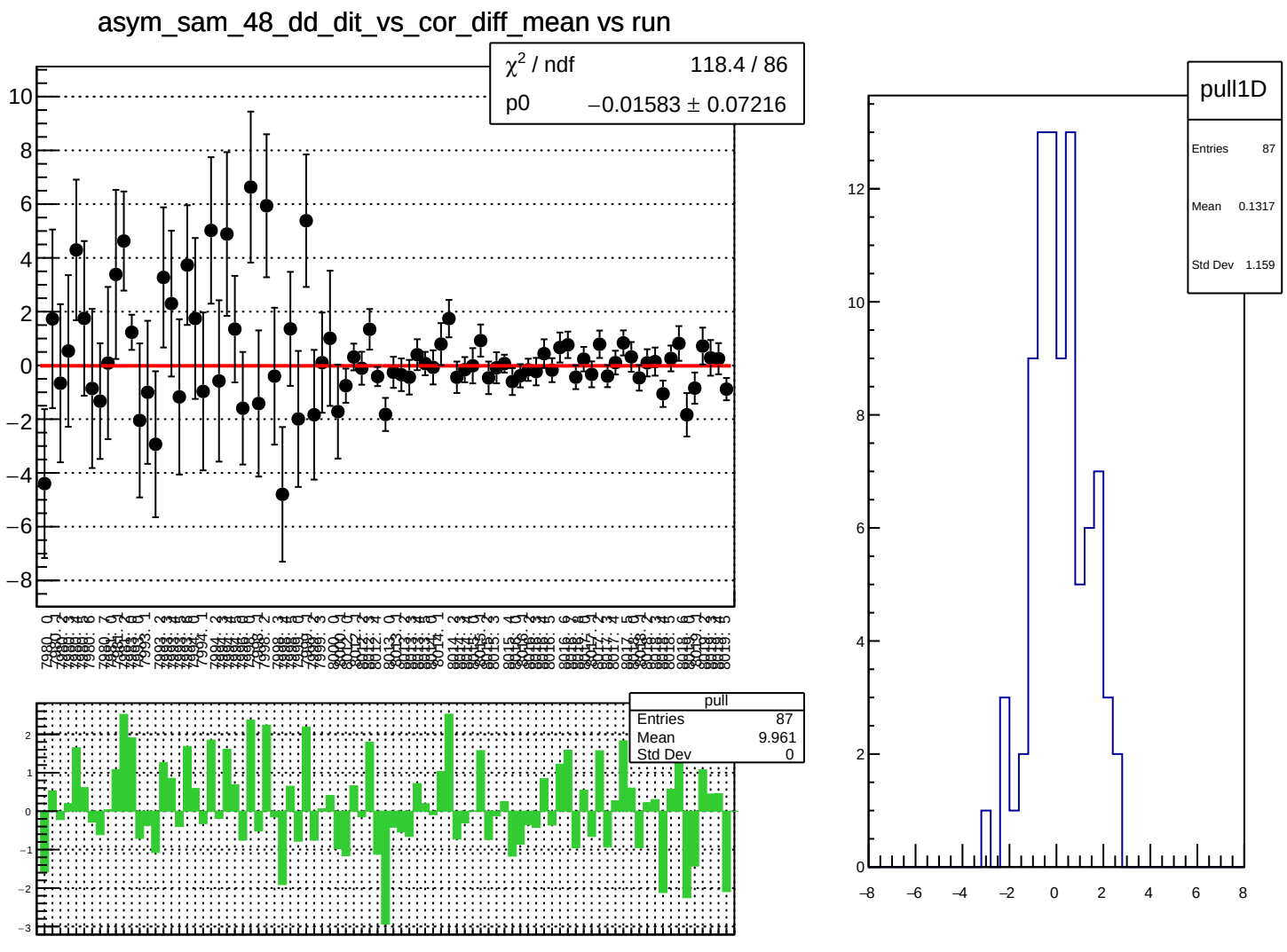

pull1D
Entries 87
Mean 0.01545
Std Dev 1.183

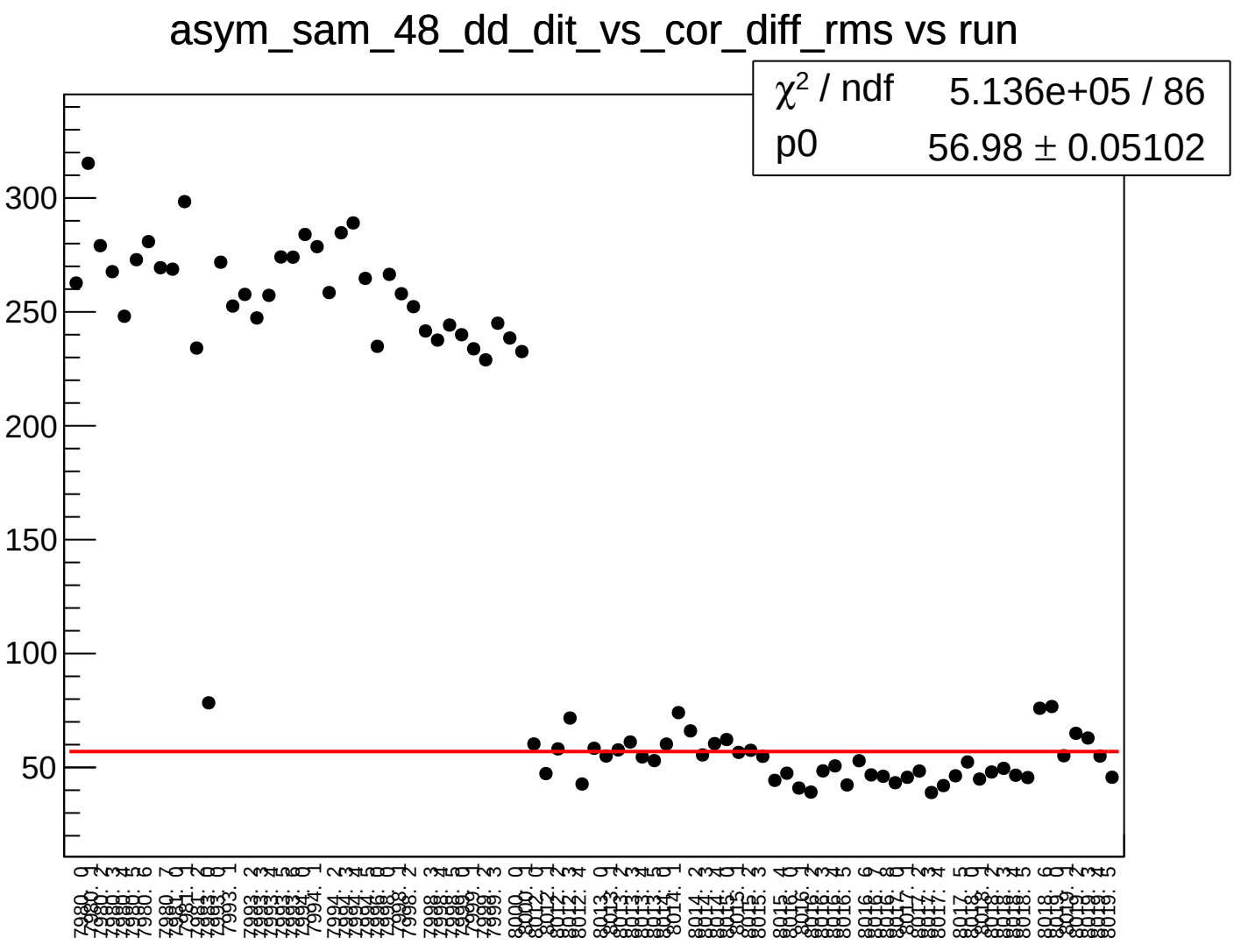

asym_sam_48_dd_rms vs run
χ² / ndf 3.114e+04 / 86
p0 1698 ± 1.291
2600
2400
2200
2000
1800
1600
1400

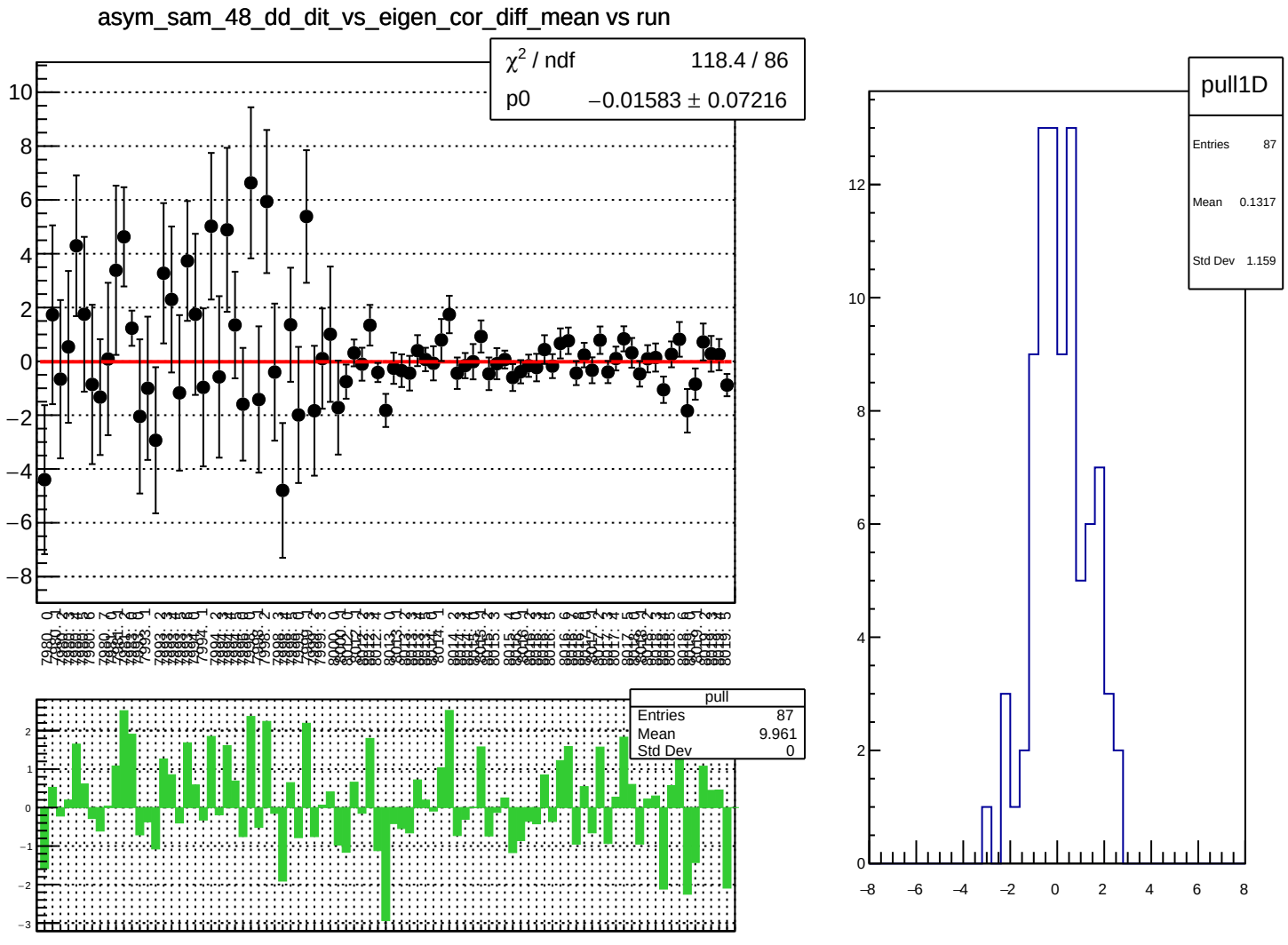

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.87 / 86
p0 8.673e−13 ± 2.35e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 87
Mean 5.286
Std Dev 0
2
1
0
−1
−2

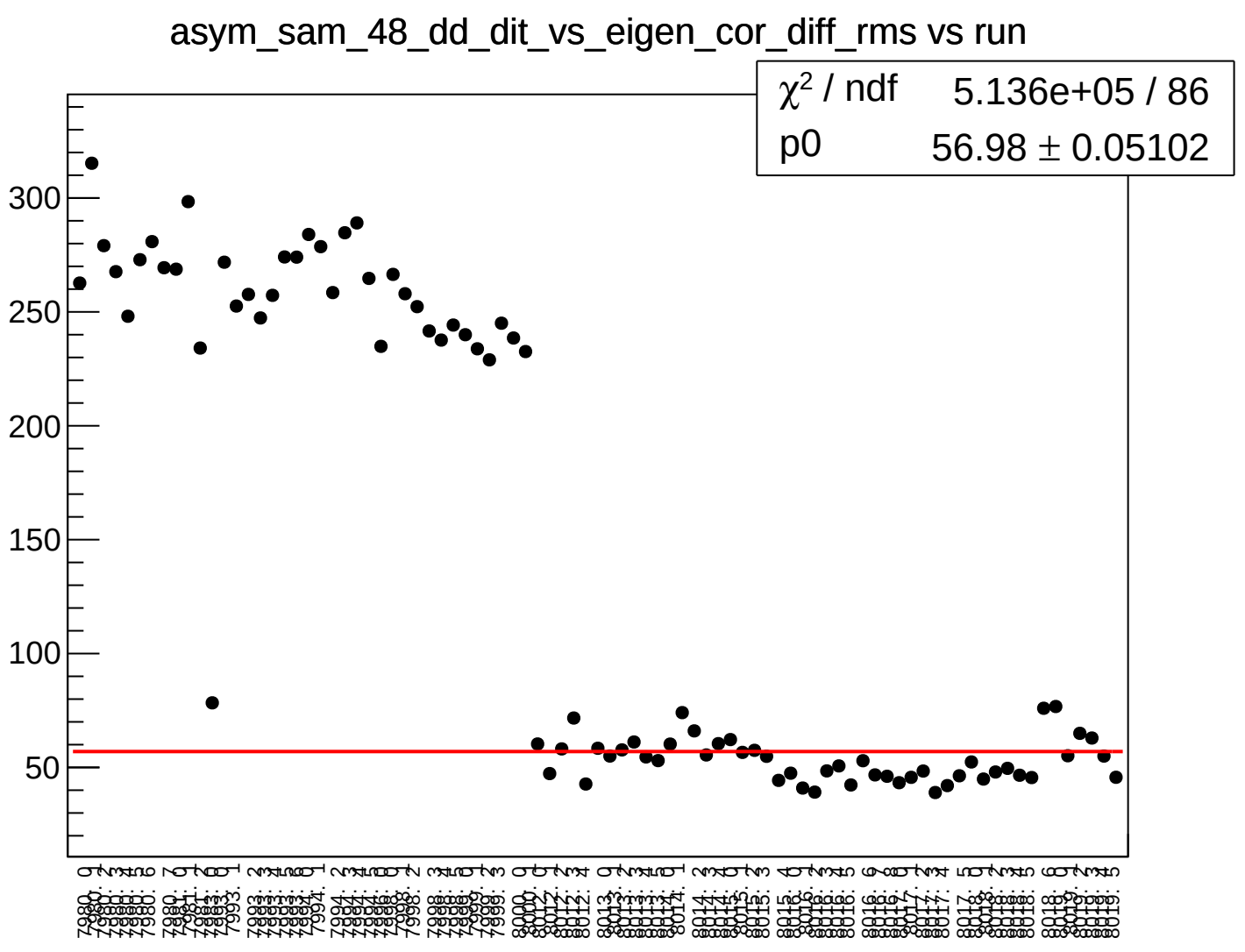

pull1D
Entries 87
Mean −0.05148
Std Dev 0.9137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

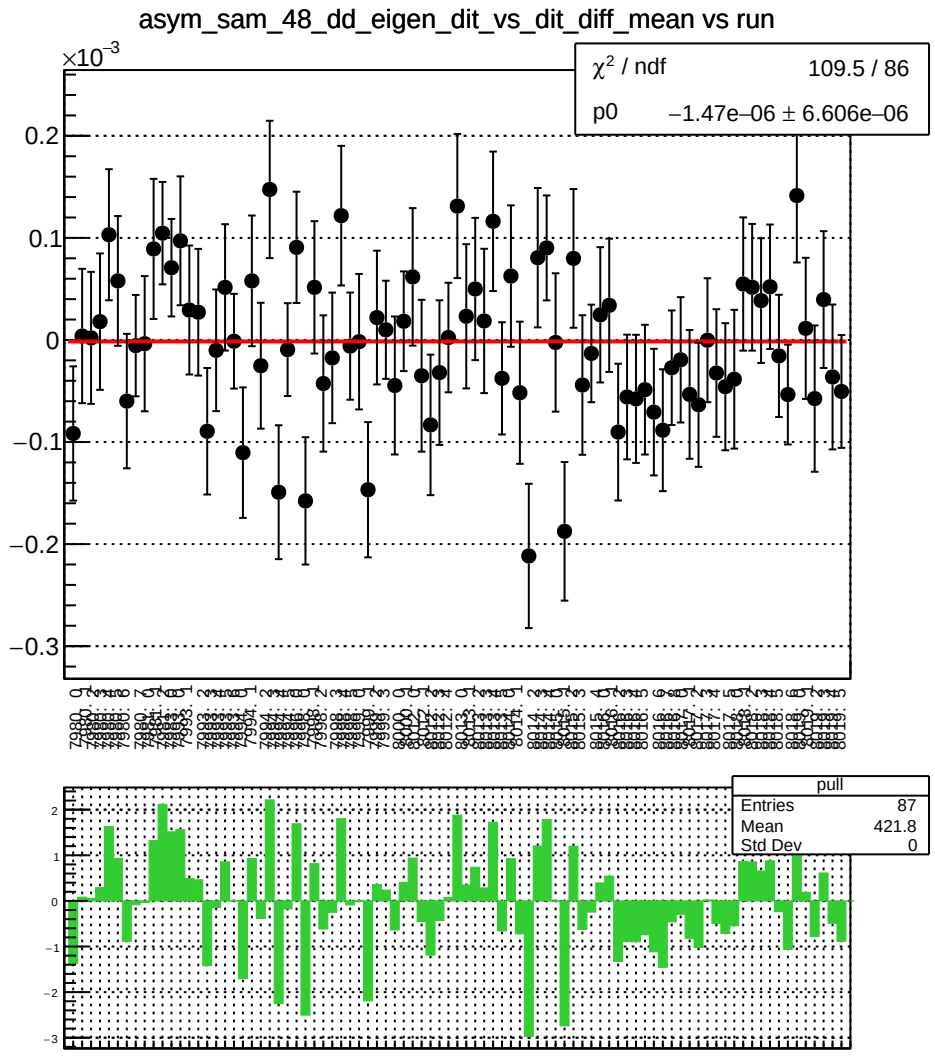

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.079e+06 / 86
p0 1.372e−10 ± 1.662e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

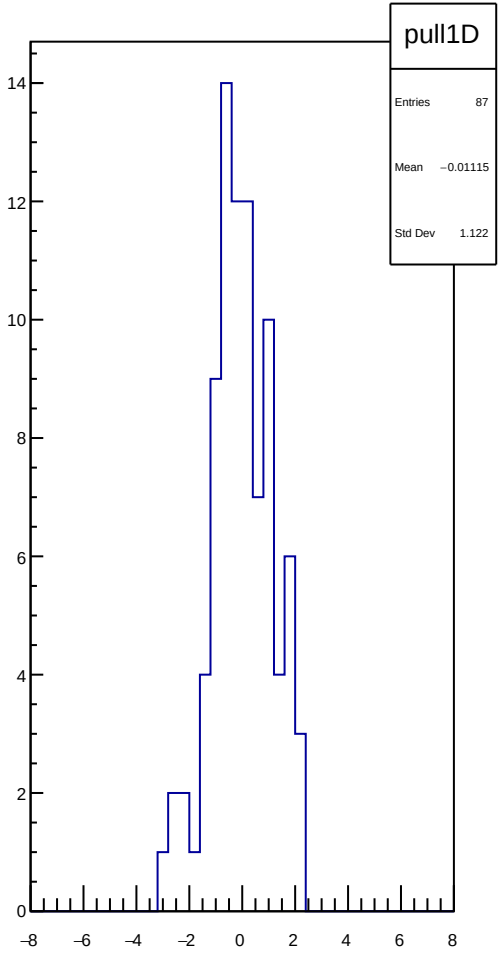

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 118.4 / 86
p0 −0.01583 ± 0.07216
pull
Entries 87
Mean 9.961
Std Dev 0
pull1D
Entries 87
Mean 0.1317
Std Dev 1.159

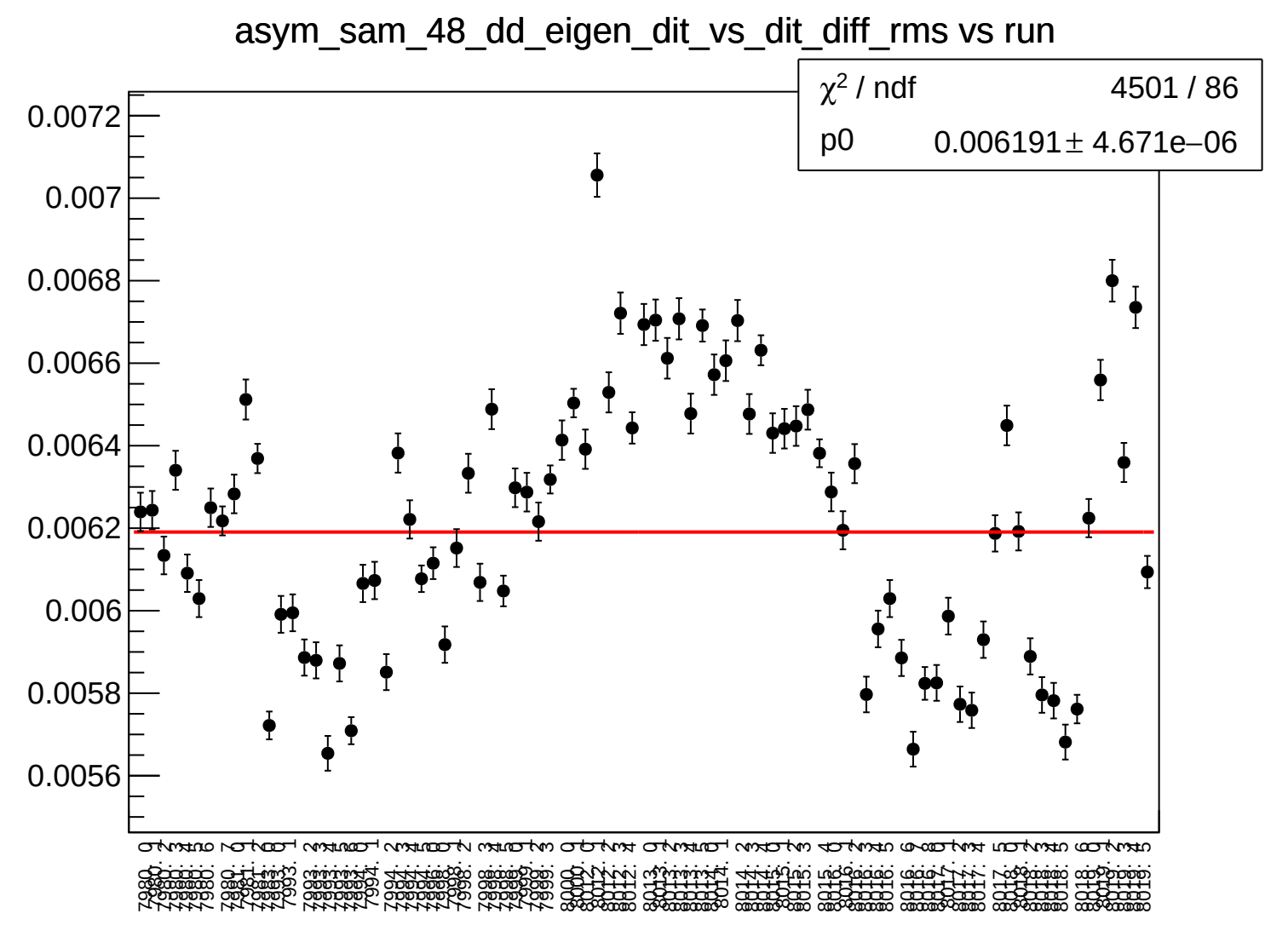

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.136e+05 / 86
p0 56.98 ± 0.05102
300
250
200
150
100
50

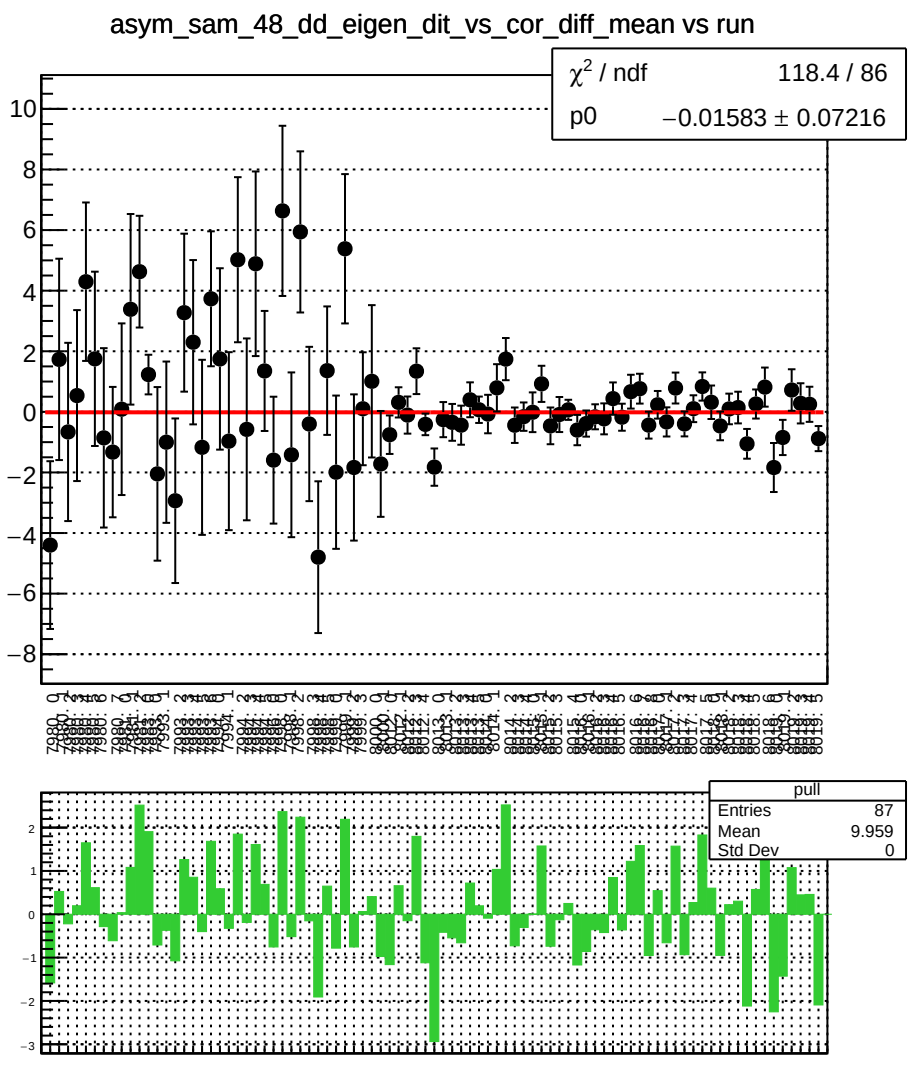

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.4 / 86
p0 −0.01583 ± 0.07216
pull
Entries 87
Mean 9.961
Std Dev 0
pull1D
Entries 87
Mean 0.1317
Std Dev 1.159

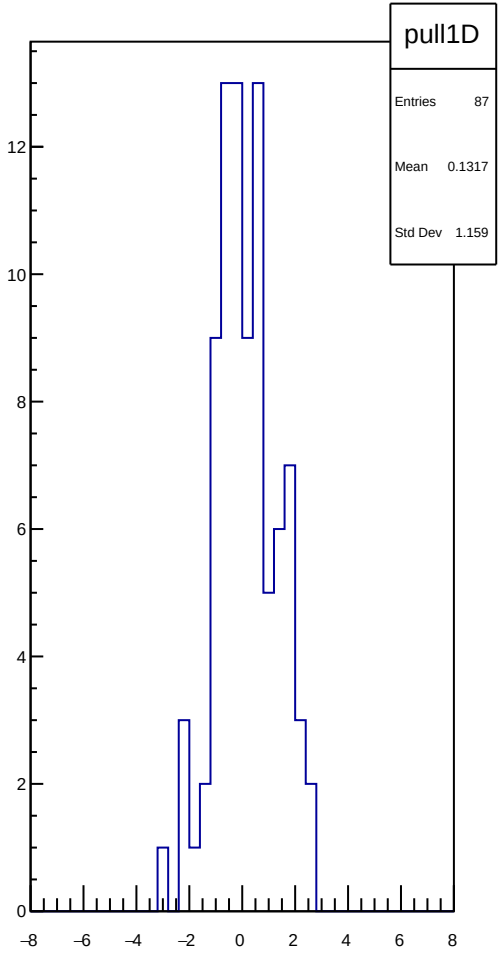

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.136e+05 / 86
p0 56.98 ± 0.05102
300
250
200
150
100
50

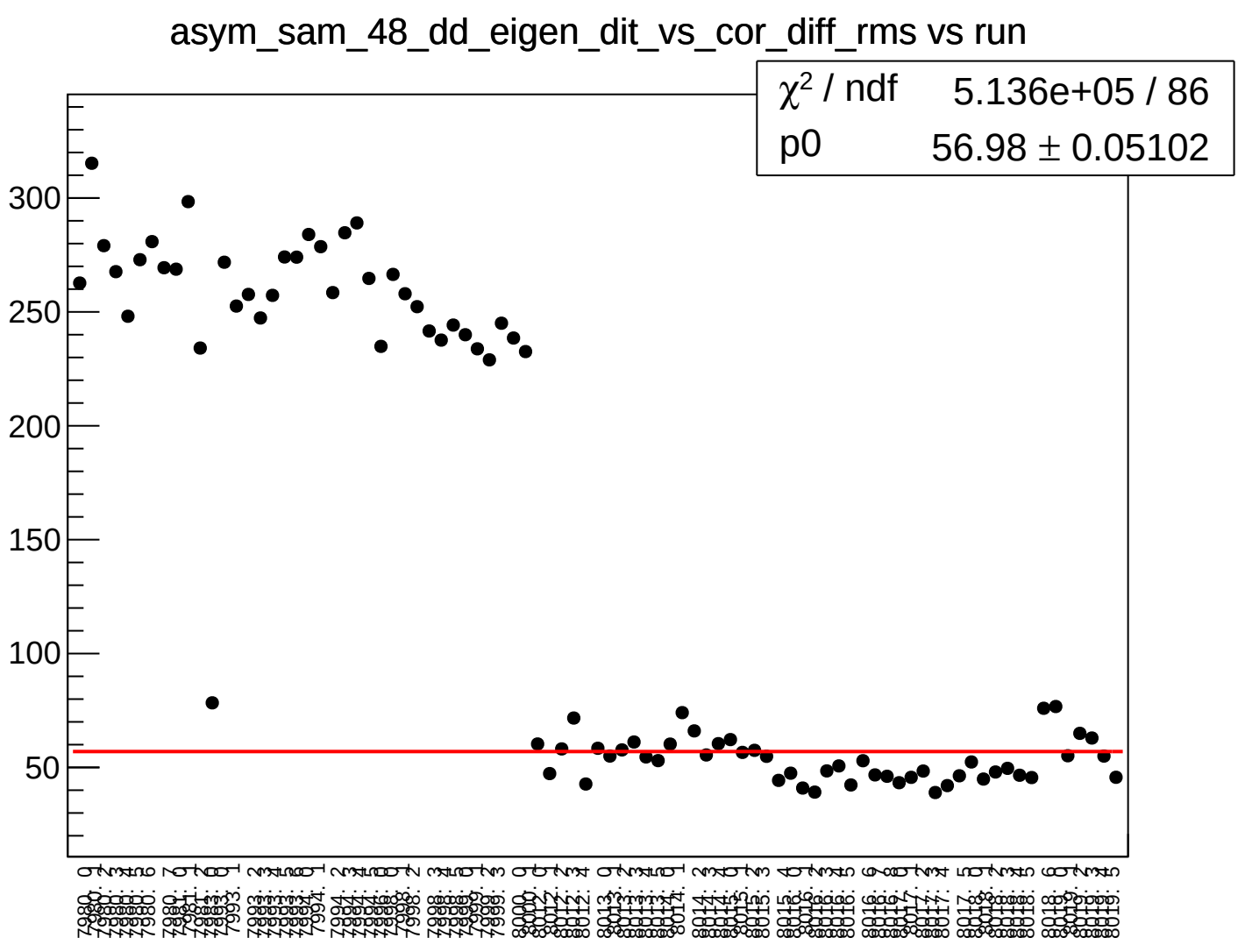

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 109.5 / 86
p0 −1.47e−06 ± 6.606e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 87
Mean 421.8
Std Dev 0
2
1
0
−1
−2
−3

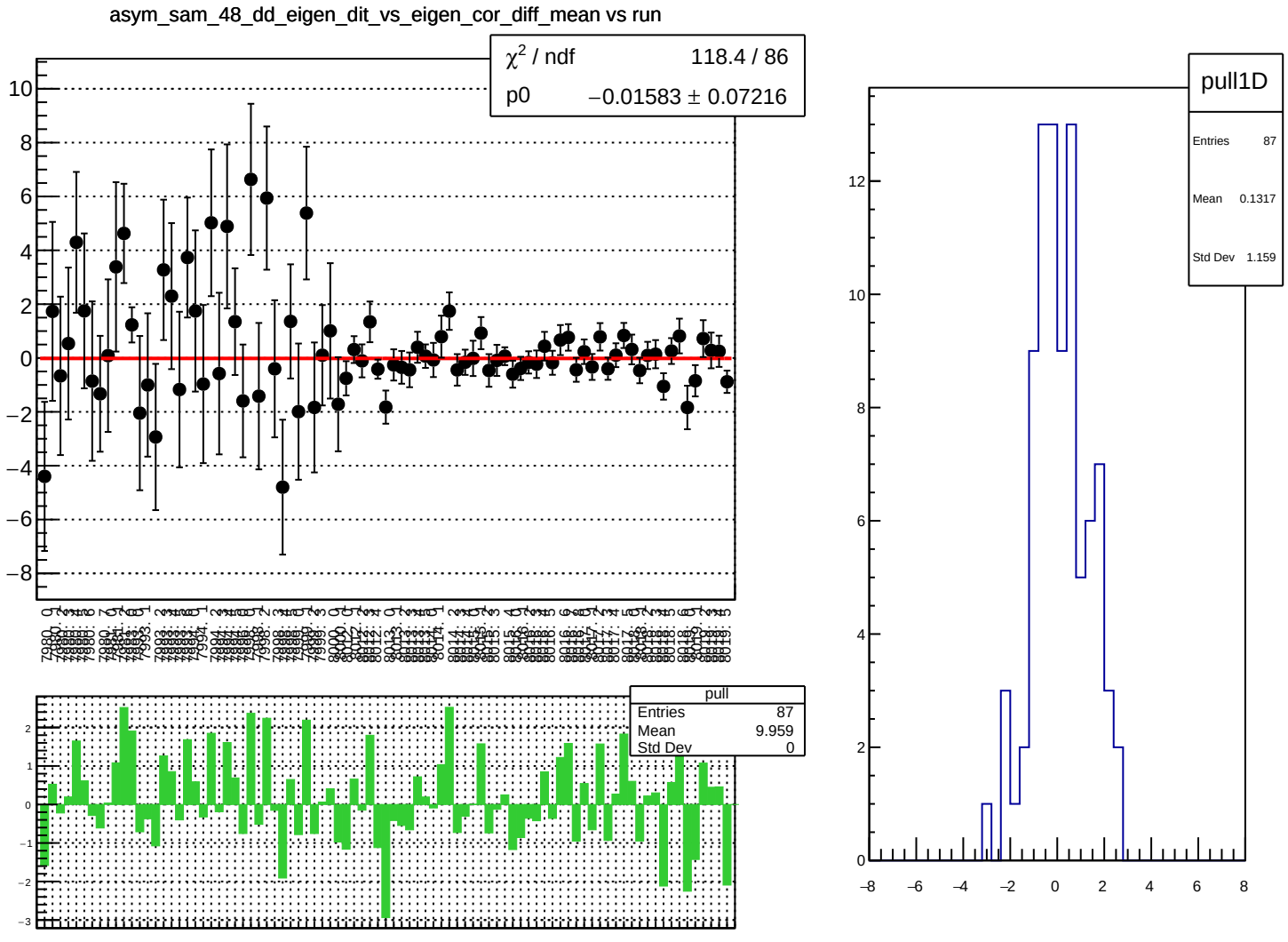

pull1D
Entries 87
Mean −0.01115
Std Dev 1.122
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

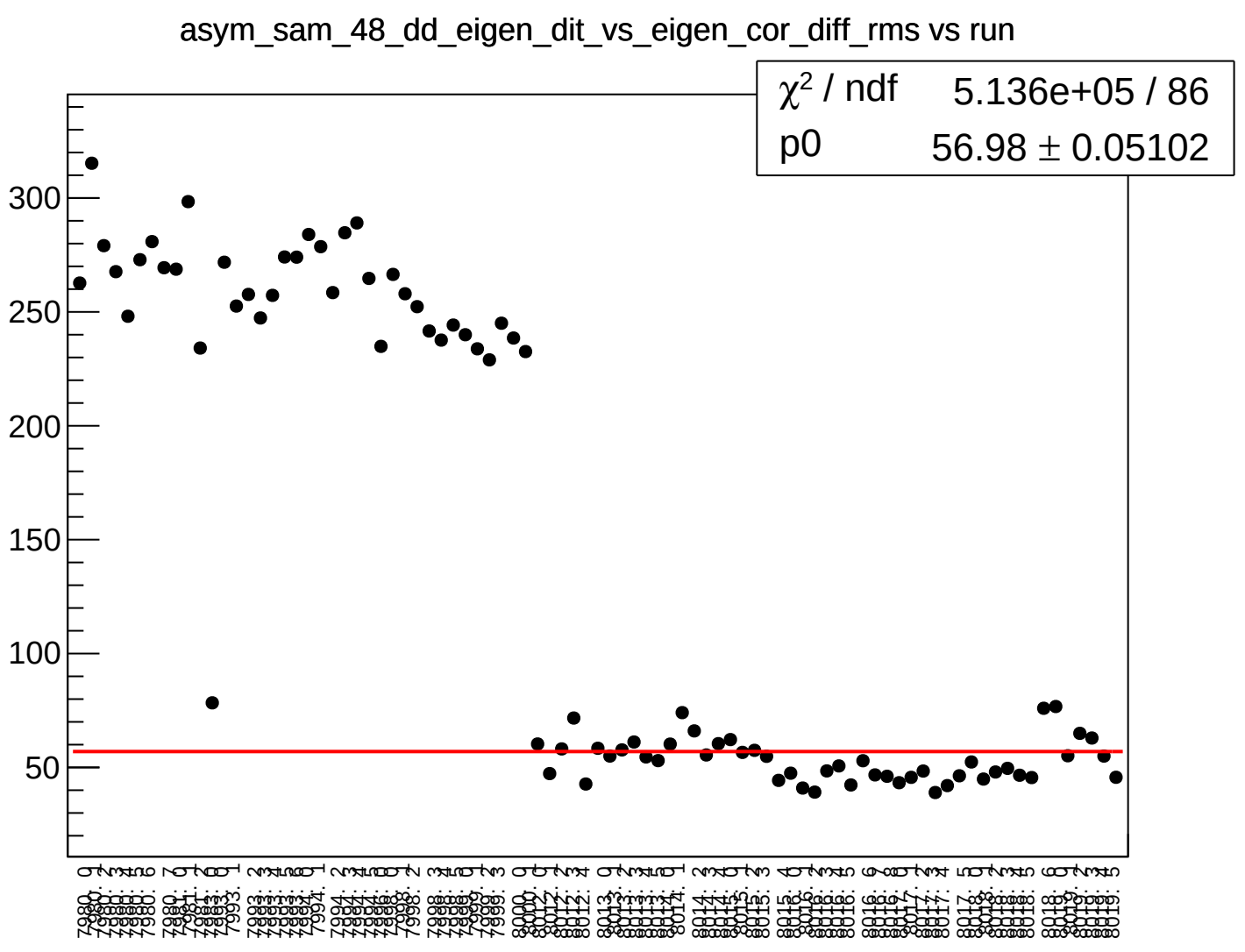

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4501 / 86
p0 0.006191 ± 4.671e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056

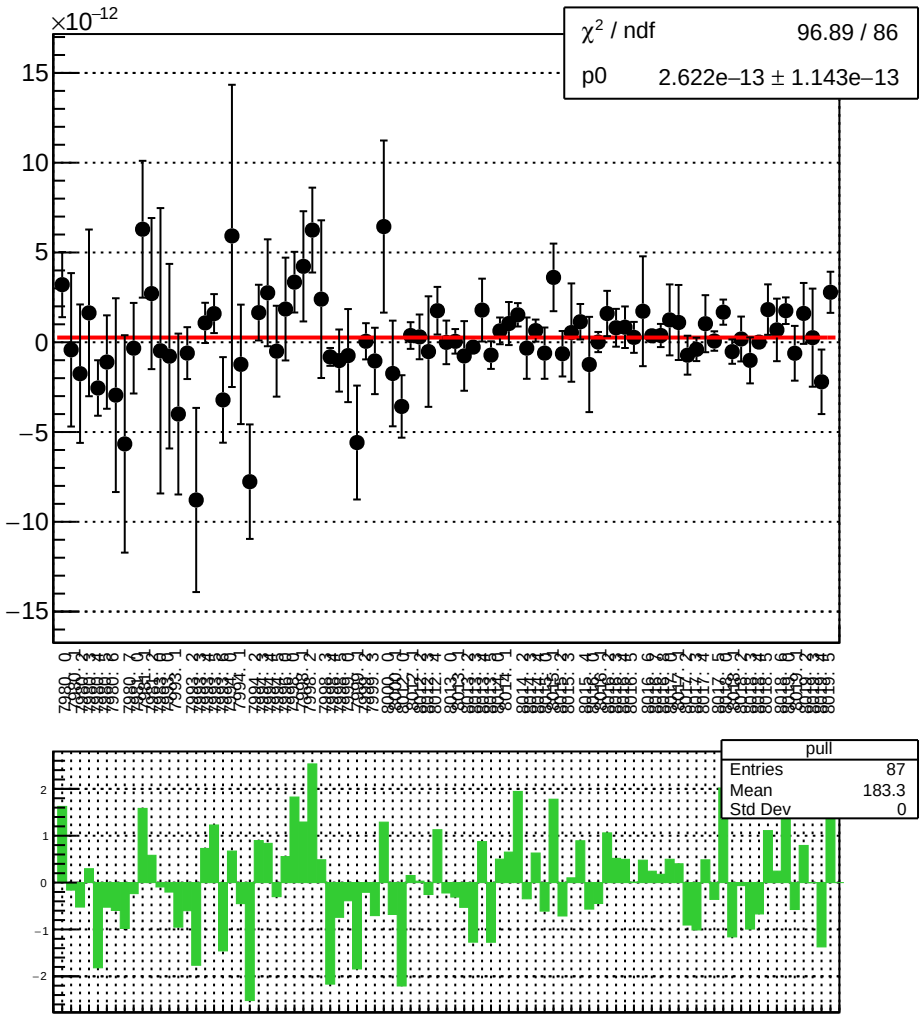

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.4 / 86
p0 −0.01583 ± 0.07216
pull
Entries 87
Mean 9.959
Std Dev 0

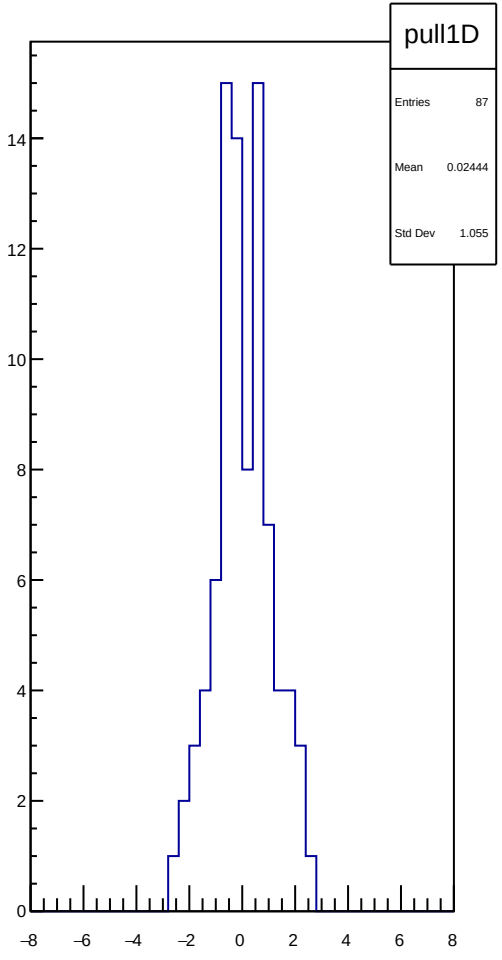

pull1D
Entries 87
Mean 0.1317
Std Dev 1.159

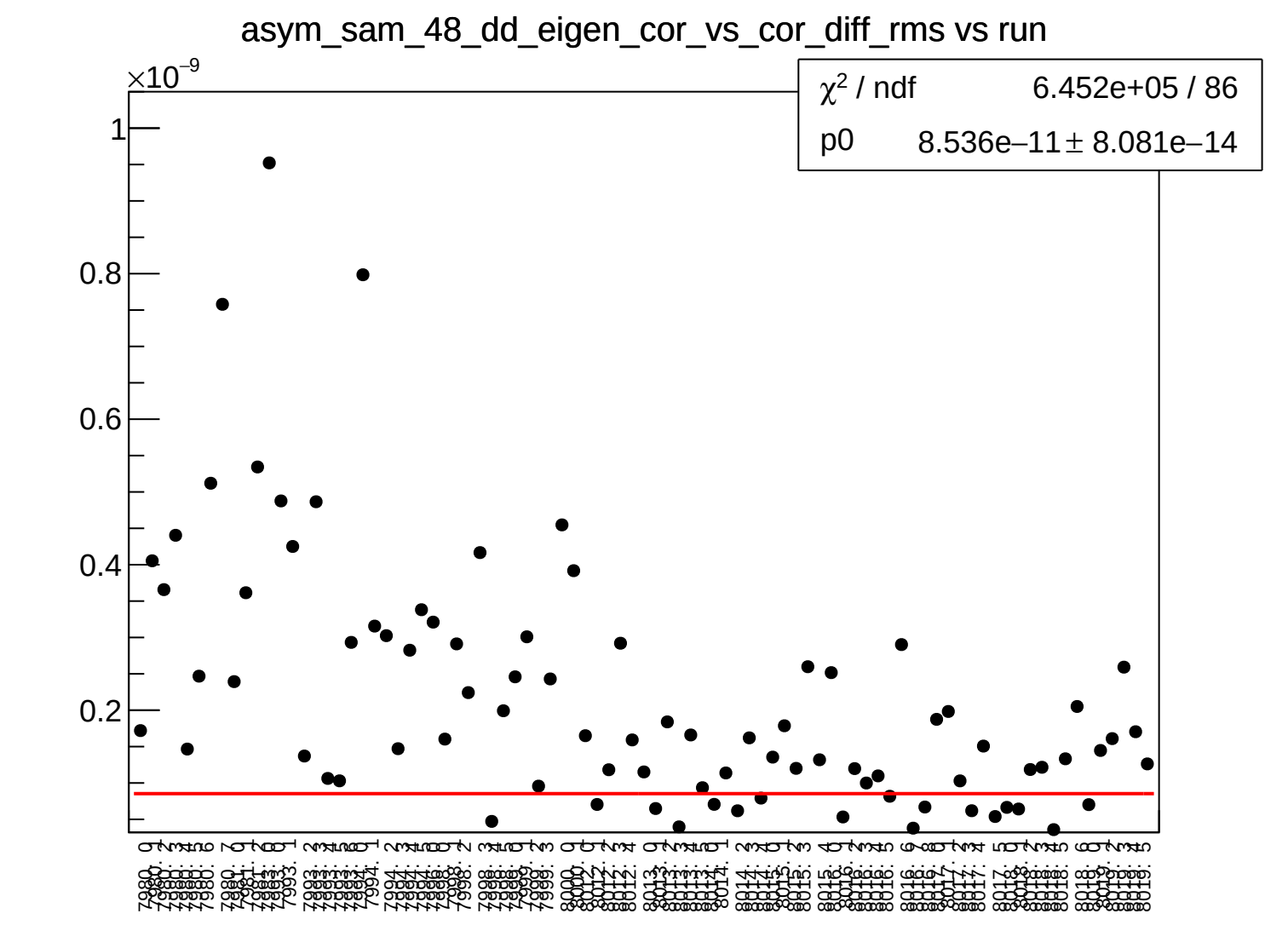

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.136e+05 / 86
p0 56.98 ± 0.05102
300
250
200
150
100
50

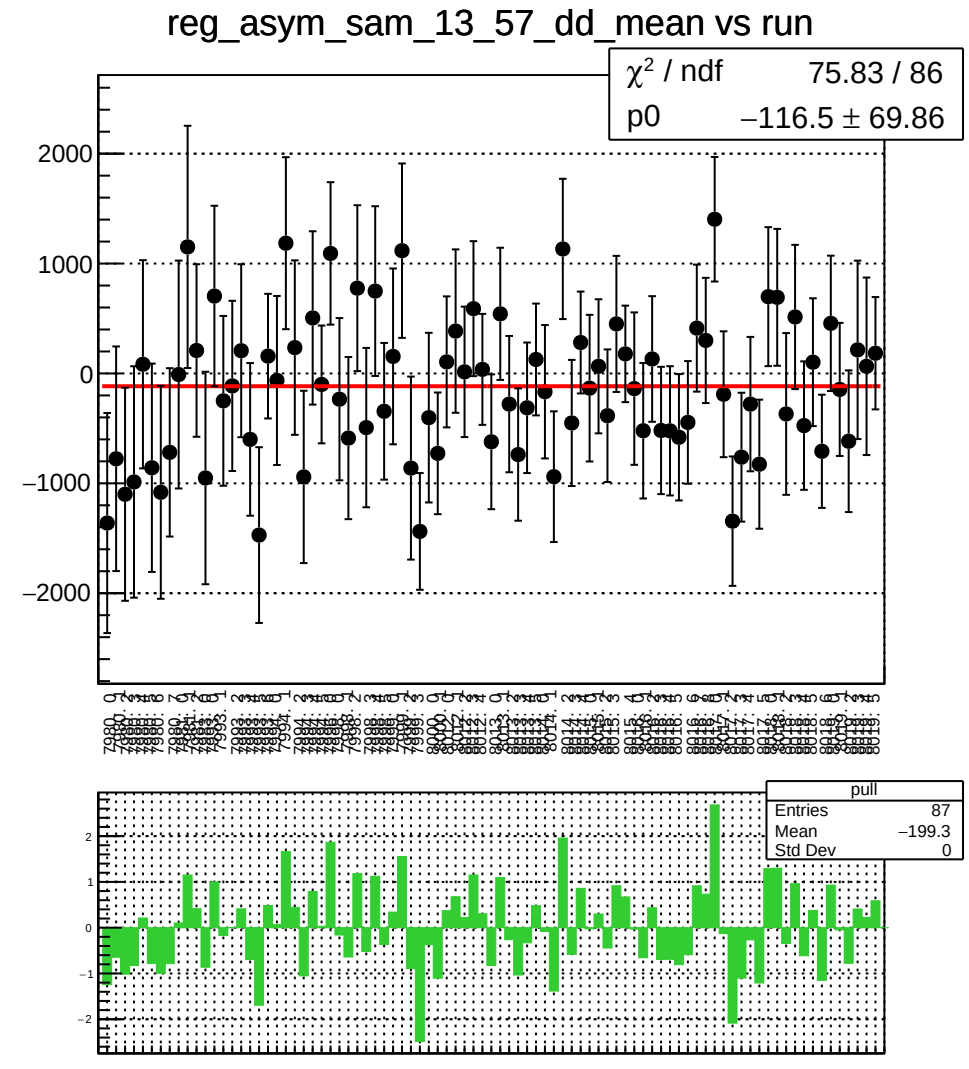

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.4 / 86
p0 −0.01583 ± 0.07216
pull
Entries 87
Mean 9.959
Std Dev 0
pull1D
Entries 87
Mean 0.1317
Std Dev 1.159

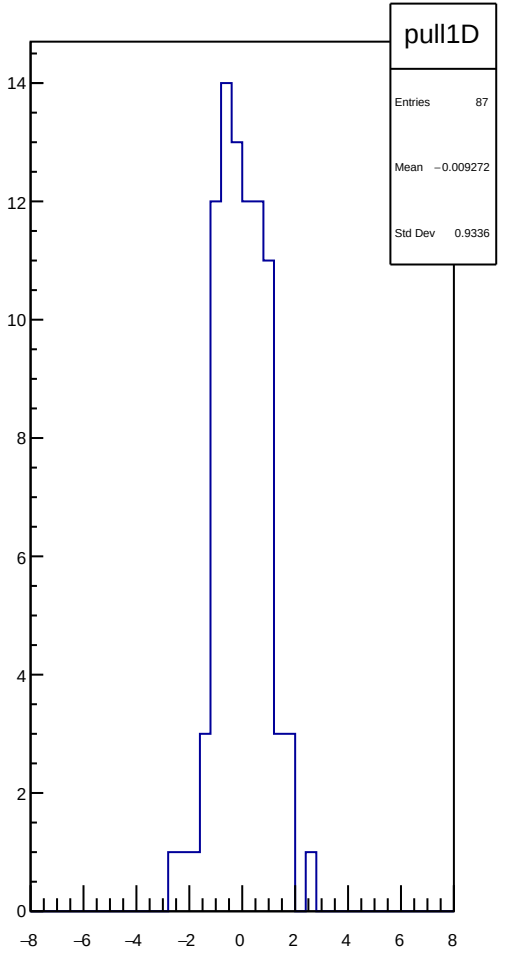

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.136e+05 / 86
p0 56.98 ± 0.05102
300
250
200
150
100
50

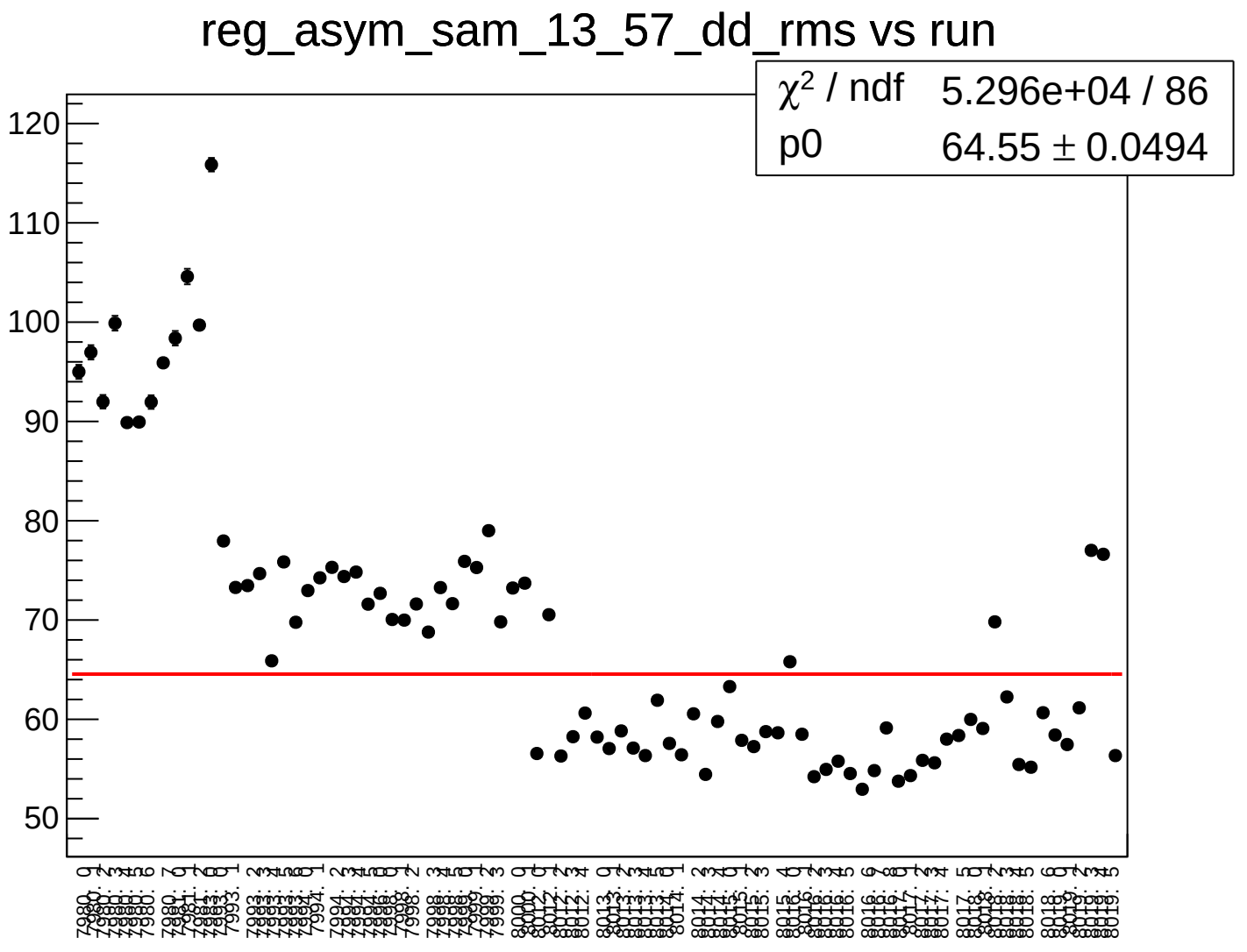

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.89 / 86
p0 2.622e−13 ± 1.143e−13
15
10
5
0
−5
−10
−15
pull
Entries 87
Mean 183.3
Std Dev 0
2
1
0
−1
−2

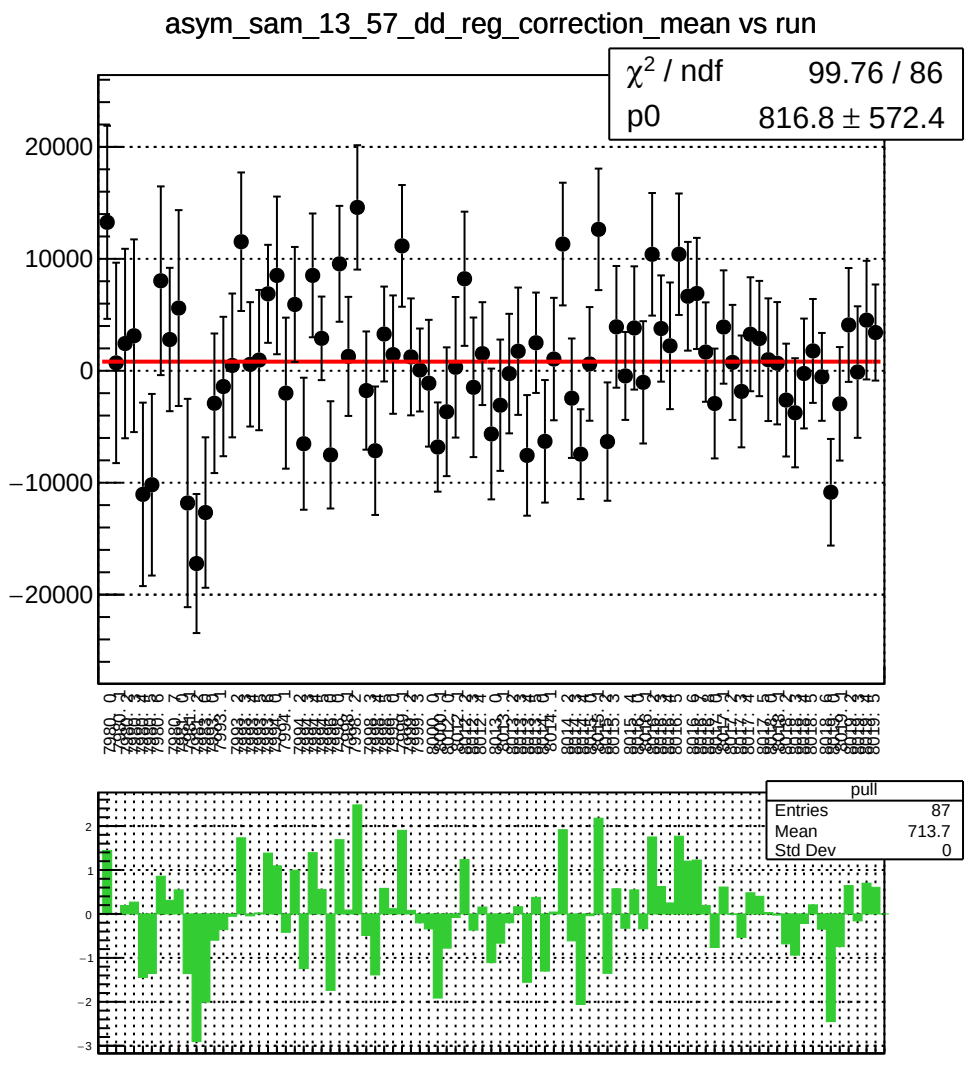

pull1D
Entries 87
Mean 0.02444
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

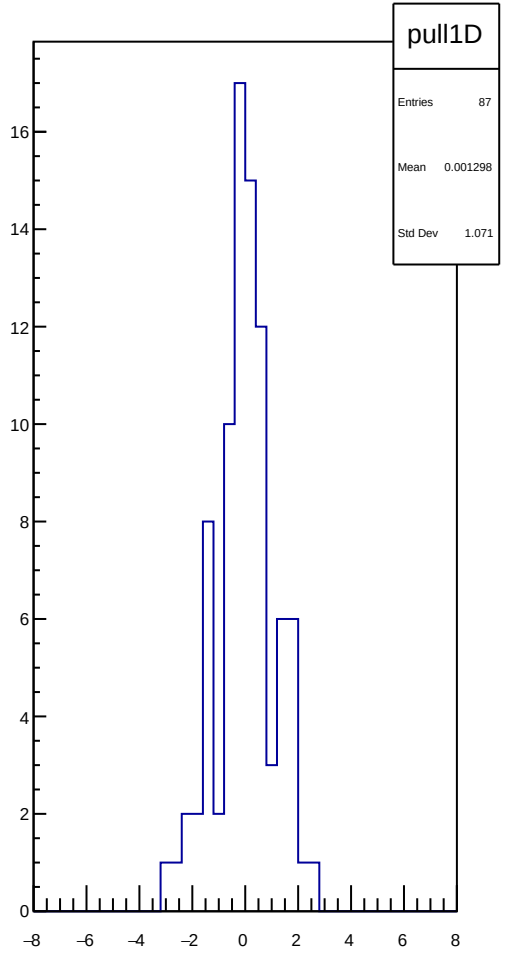

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.452e+05 / 86
p0 8.536e−11 ± 8.081e−14
1
0.8
0.6
0.4
0.2

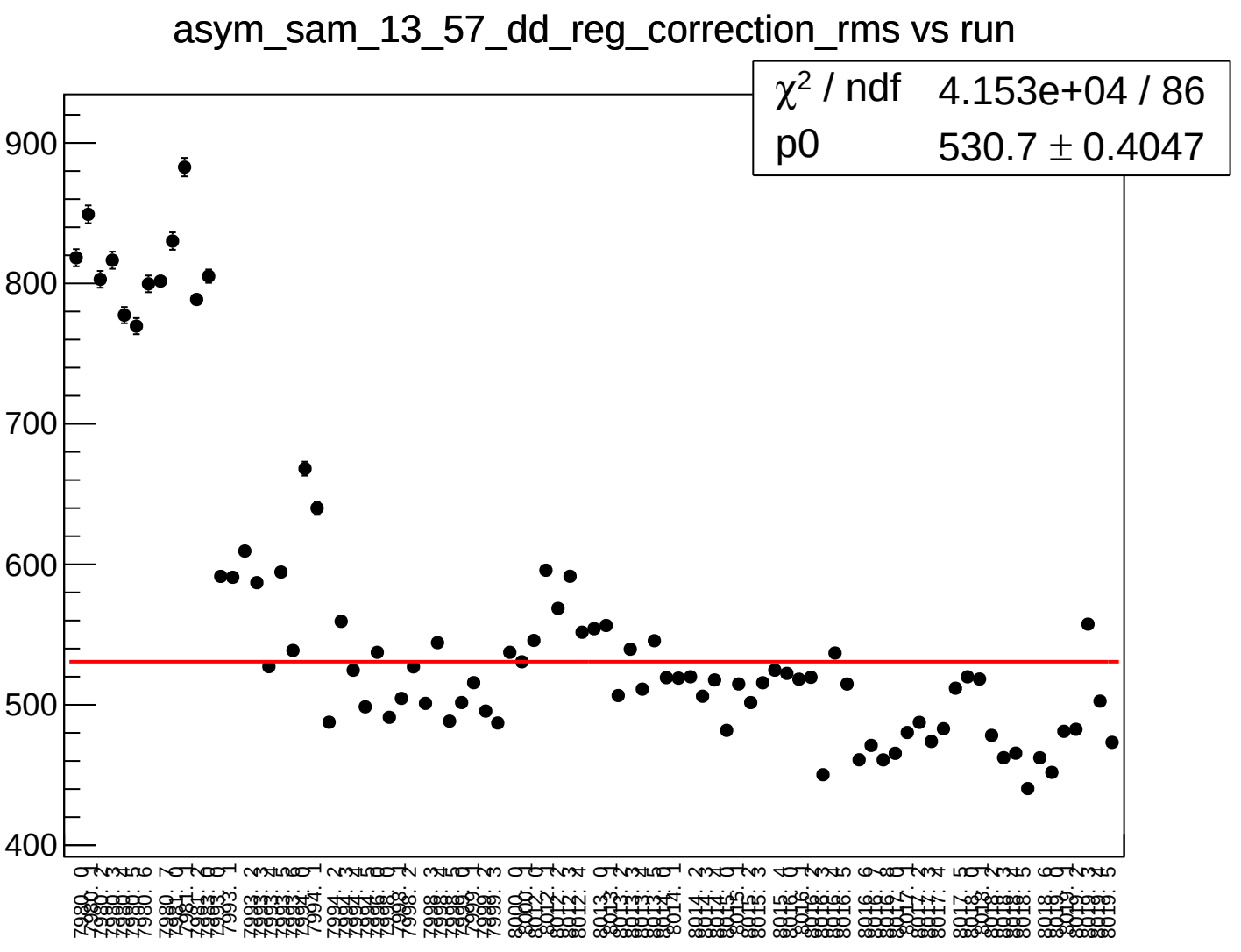

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 75.83 / 86
p0 −116.5 ± 69.86
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −199.3
Std Dev 0
2
1
0
−1
−2

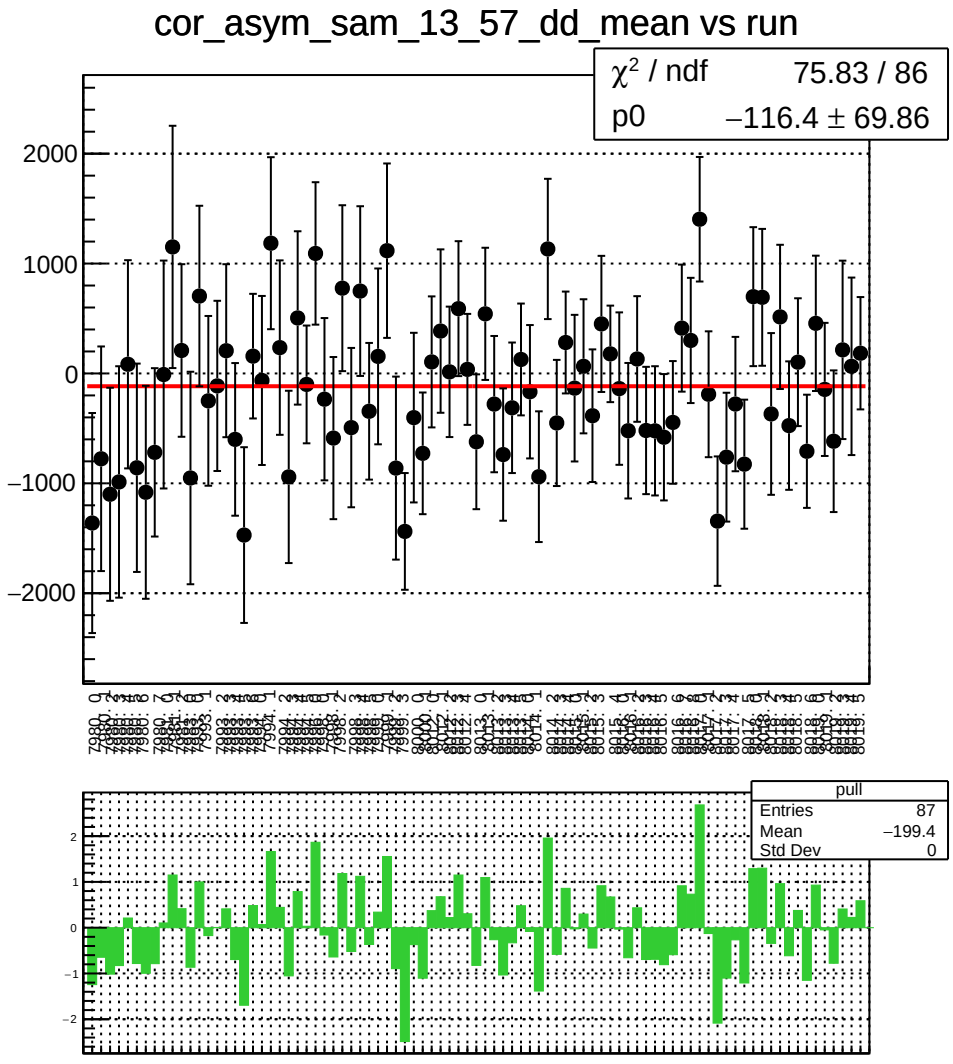

pull1D
Entries 87
Mean −0.009272
Std Dev 0.9336
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

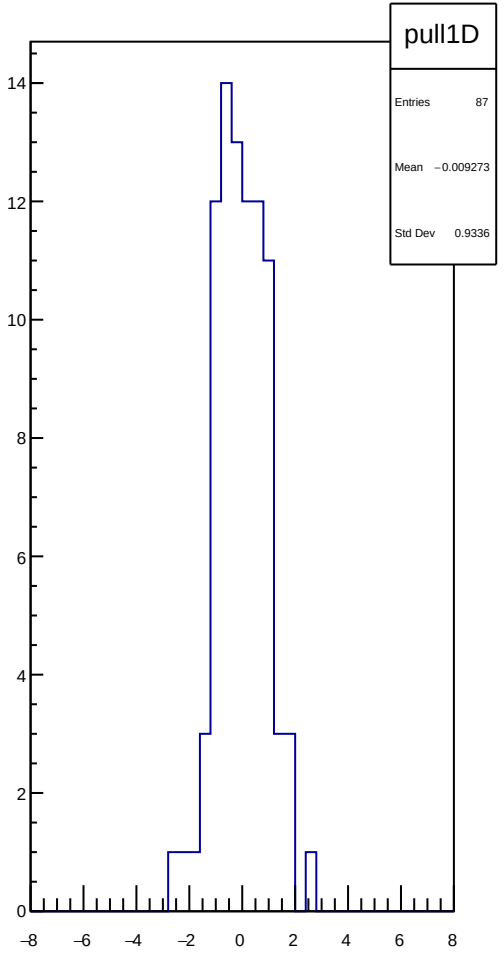

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 5.296e+04 / 86
p0 64.55 ± 0.0494
120
110
100
90
80
70
60
50

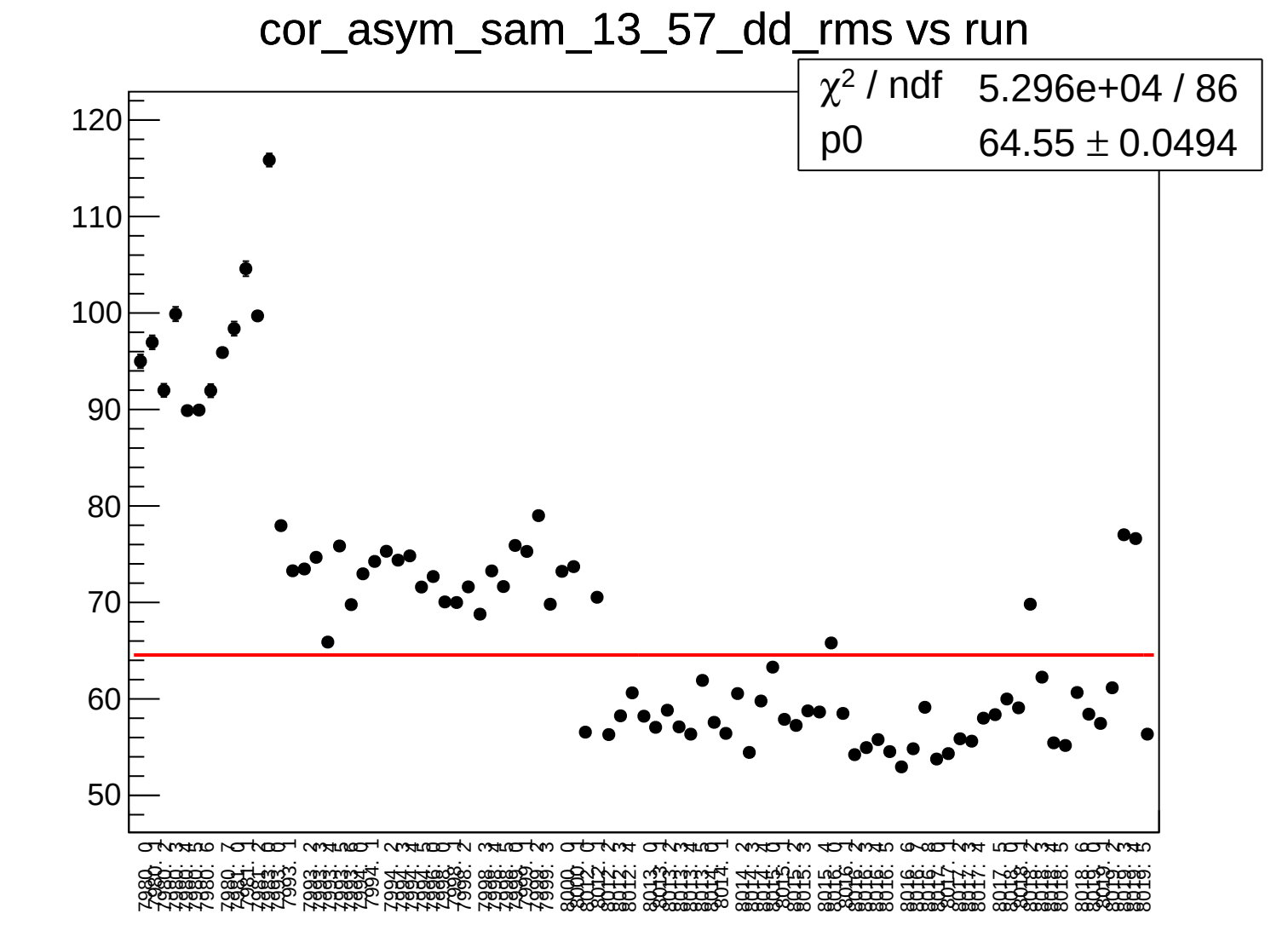

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 99.76 / 86
p0 816.8 ± 572.4
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 713.7
Std Dev 0
2
1
0
−1
−2
−3

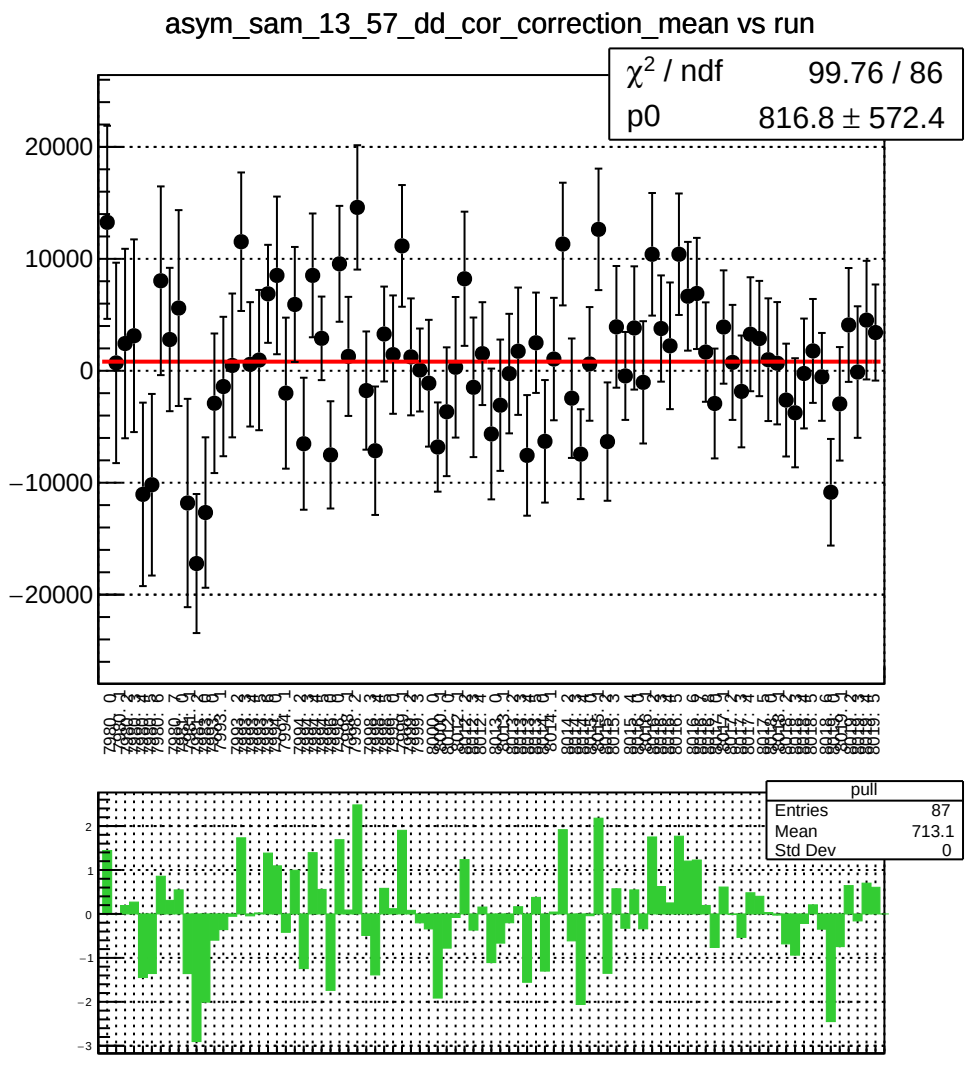

pull1D
Entries 87
Mean 0.001298
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

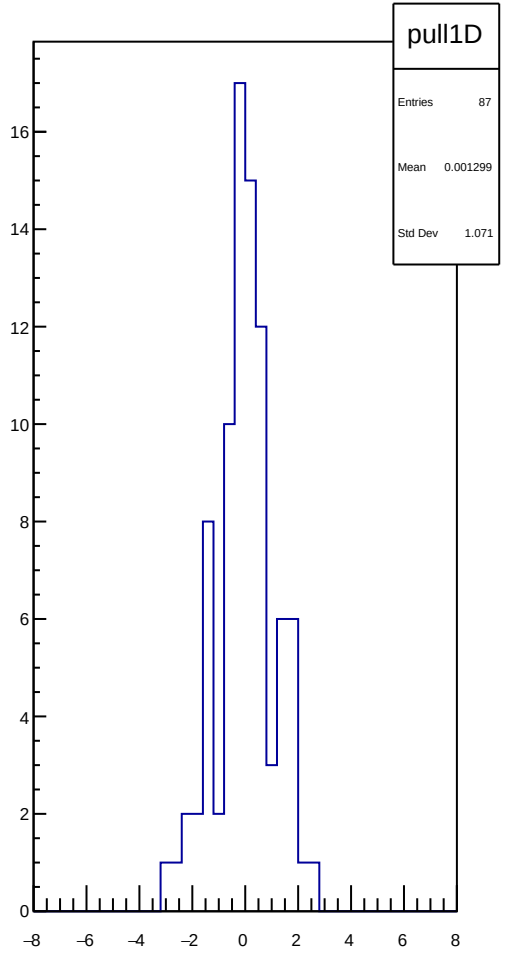

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 4.153e+04 / 86
p0 530.7 ± 0.4047
900
800
700
600
500
400


cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 75.83 / 86
p0 −116.4 ± 69.86
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −199.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 87
Mean −0.009273
Std Dev 0.9336
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
χ^2 / ndf 5.296e+04 / 86
p0 64.55 ± 0.0494
120
110
100
90
80
70
60
50


asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 99.76 / 86
p0 816.8 ± 572.4
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 713.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean 0.001299
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
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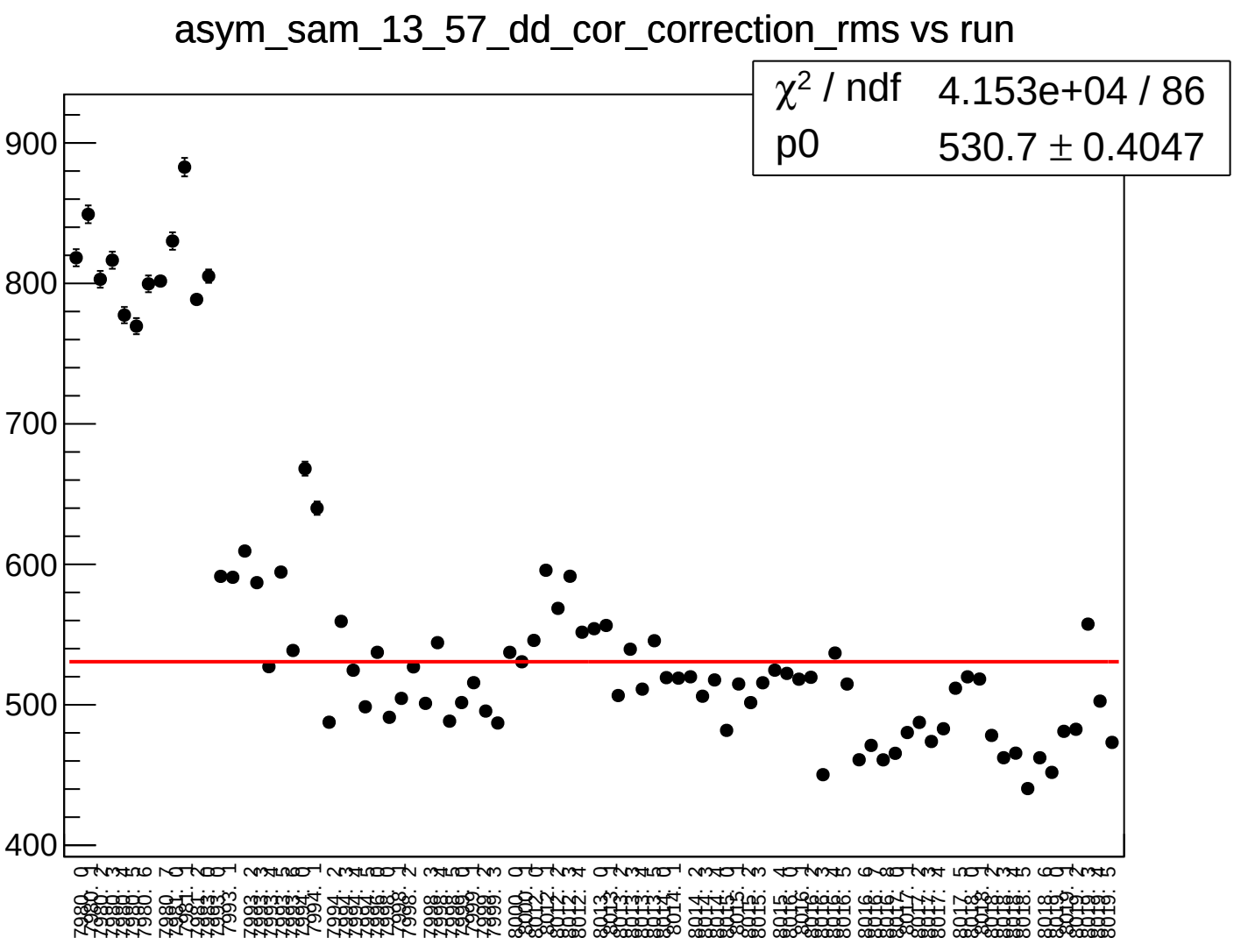
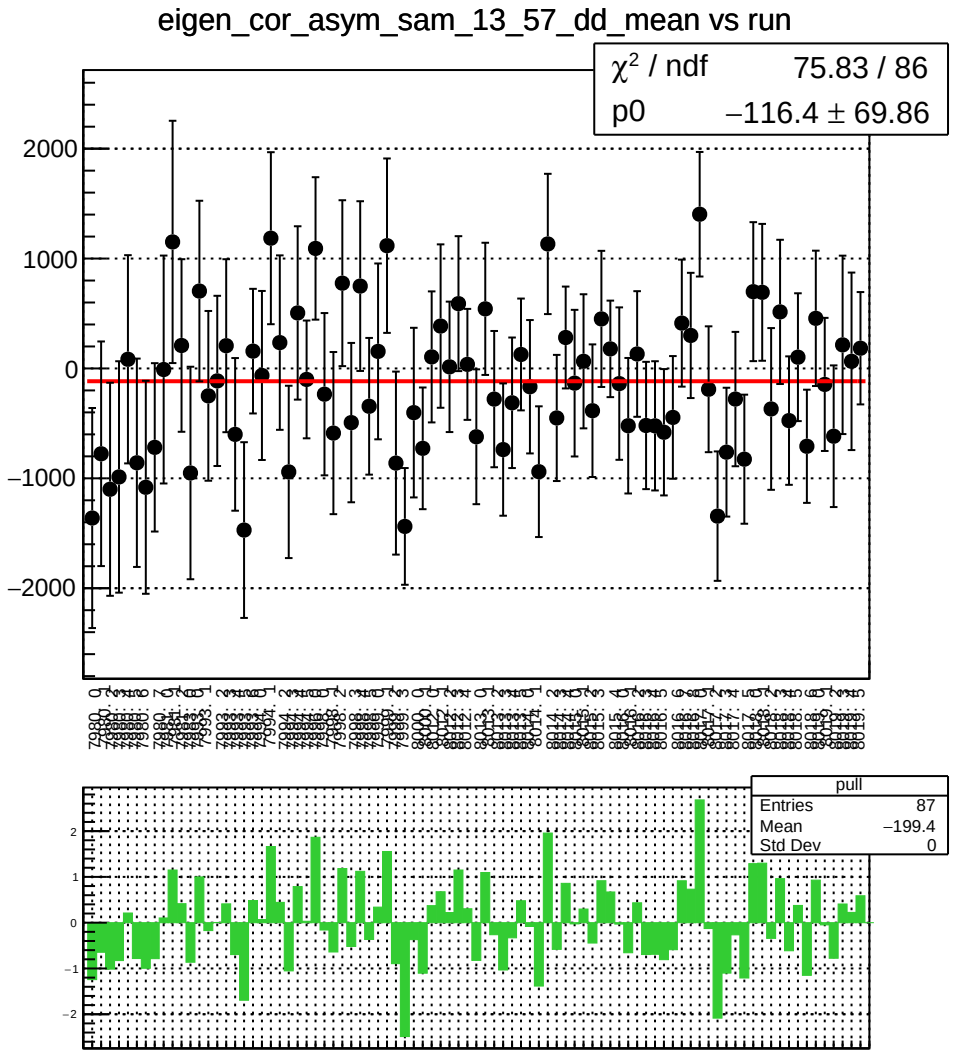
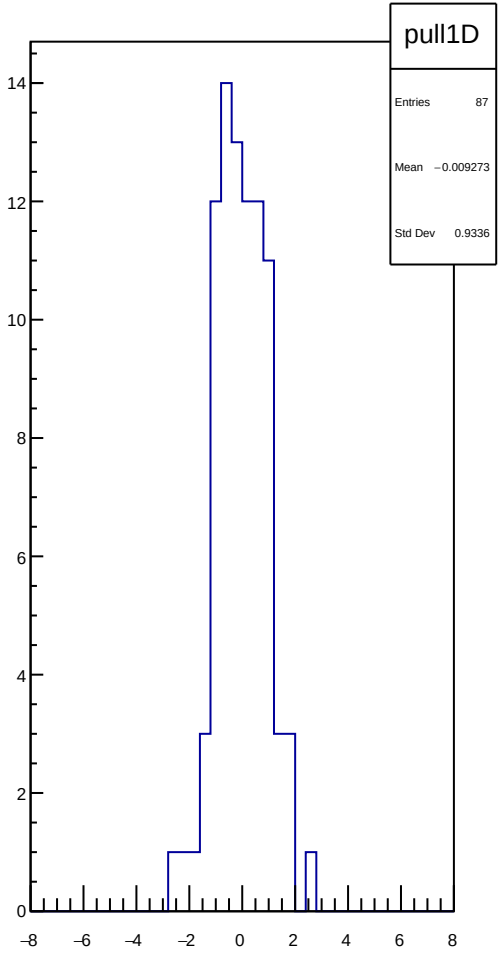
0
2
4
6
8


asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 4.153e+04 / 86
p0 530.7 ± 0.4047
900
800
700
600
500
400


eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 75.83 / 86
p0 −116.4 ± 69.86
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −199.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 87
Mean −0.009273
Std Dev 0.9336
14
12
10
8
6
4
2
0
−8
−6
−4
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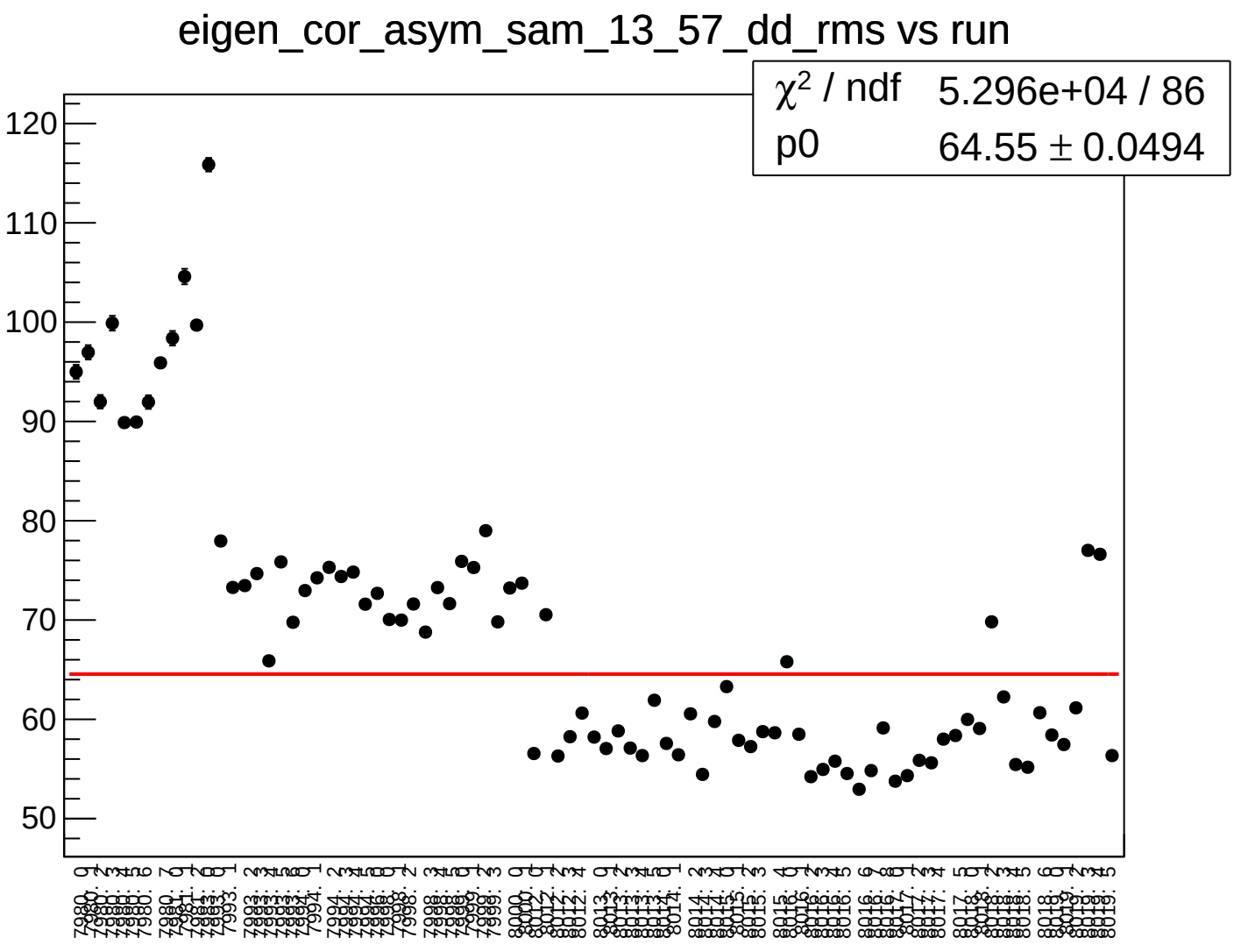
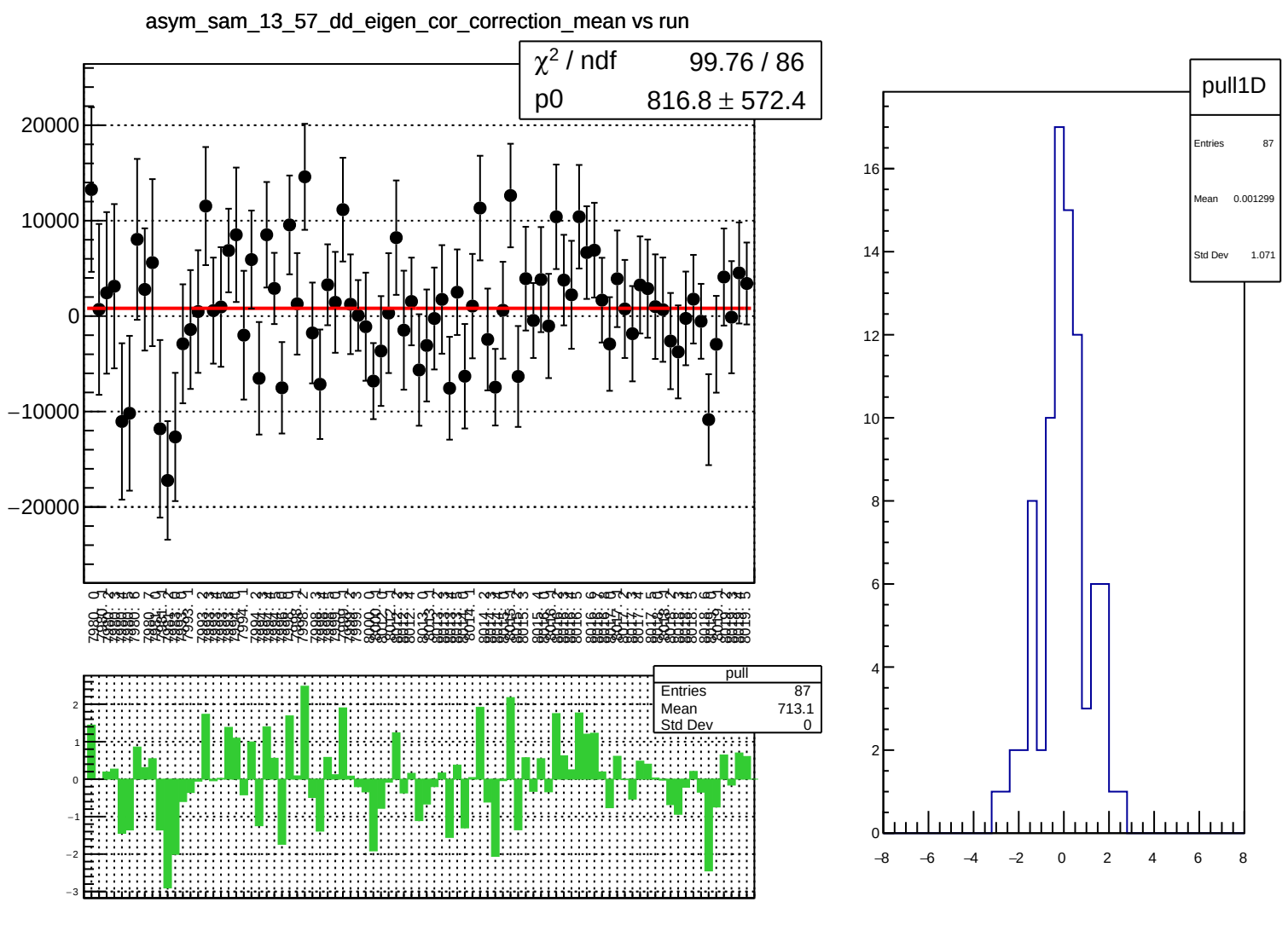
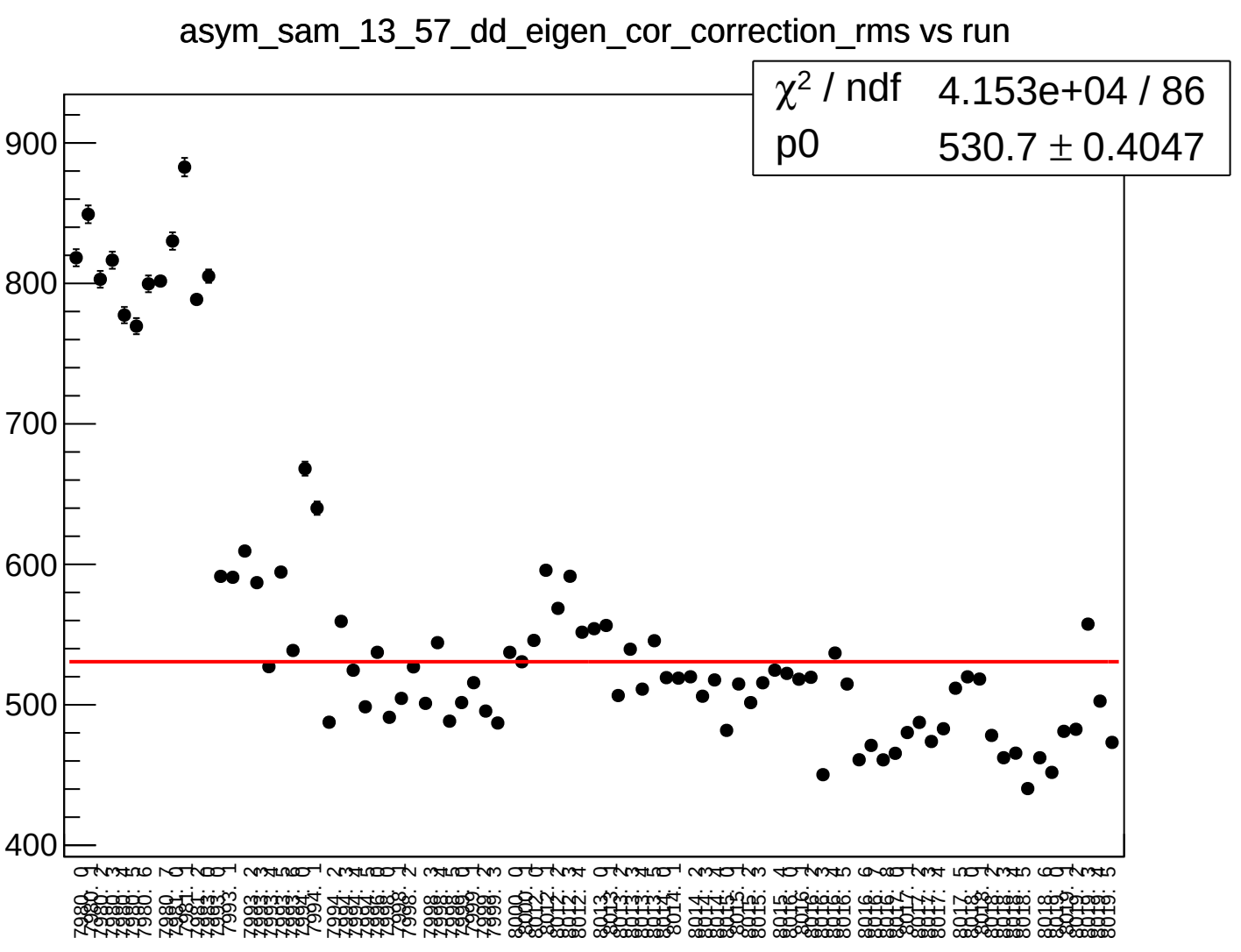
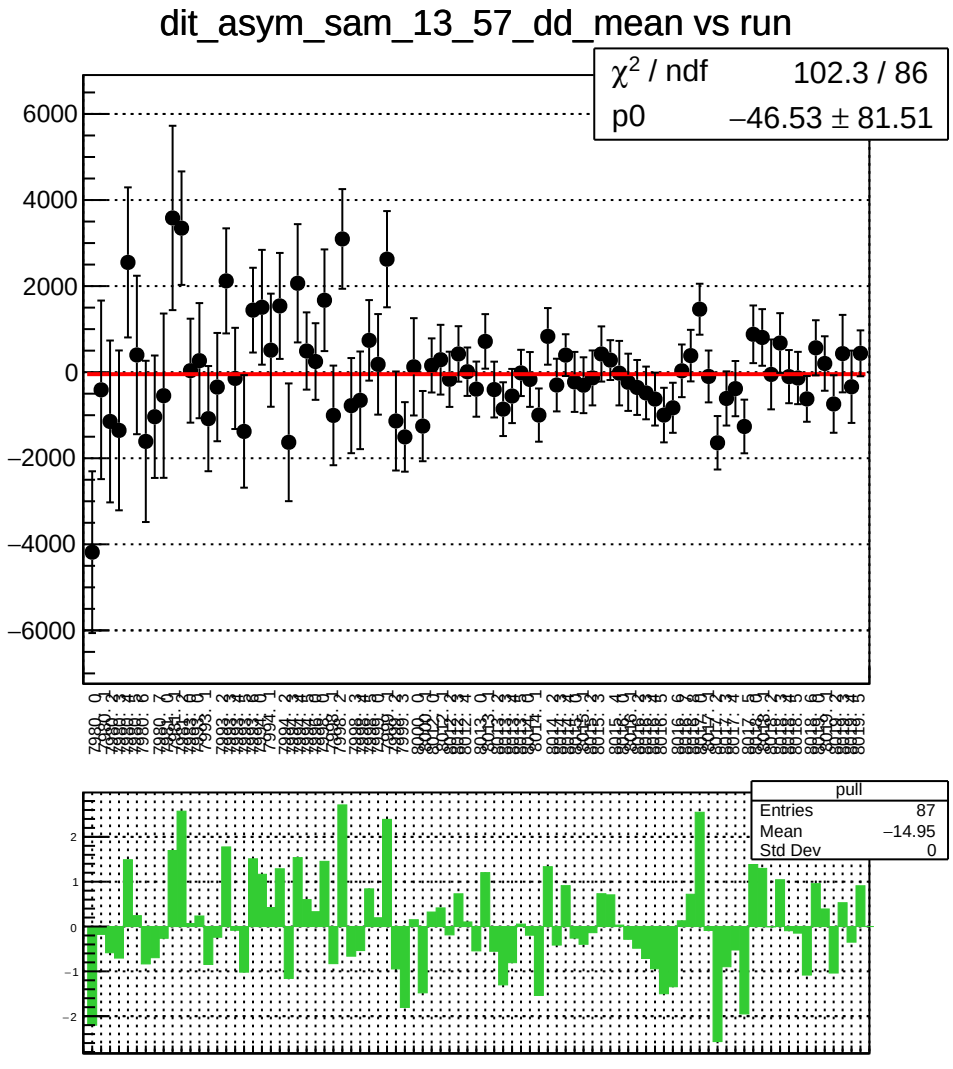
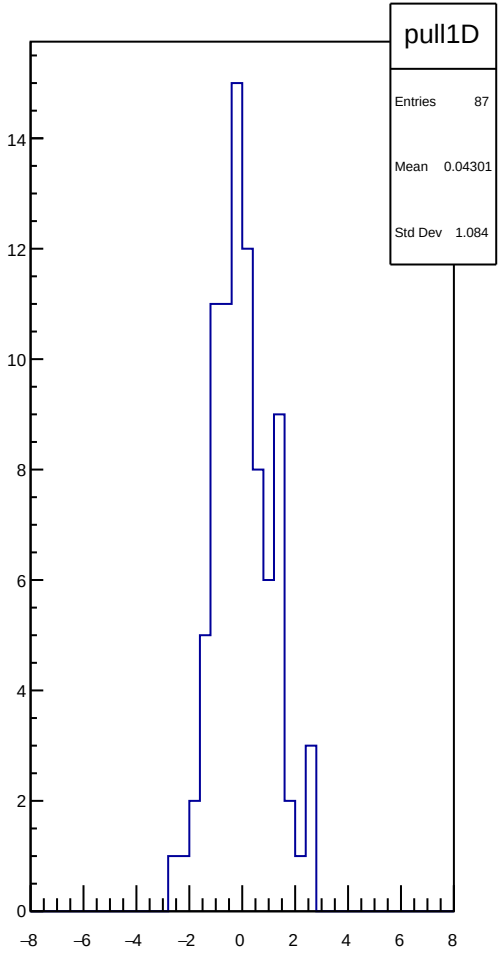
2
4
6
8


eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 5.296e+04 / 86
p0 64.55 ± 0.0494
120
110
100
90
80
70
60
50


asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.76 / 86
p0 816.8 ± 572.4
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 713.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.001299
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.153e+04 / 86
p0 530.7 ± 0.4047
900
800
700
600
500
400


dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 102.3 / 86
p0 −46.53 ± 81.51
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −14.95
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 87
Mean 0.04301
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
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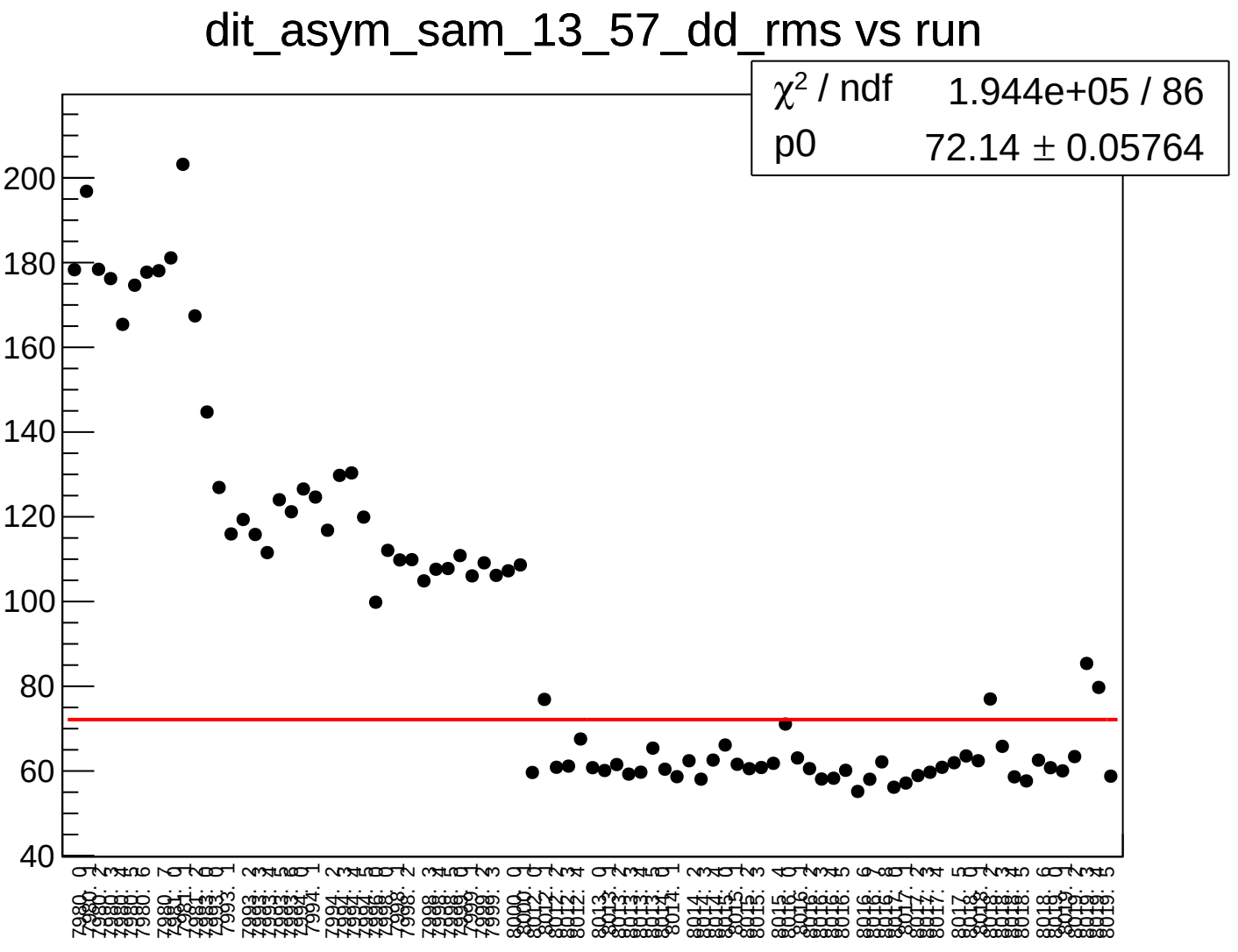
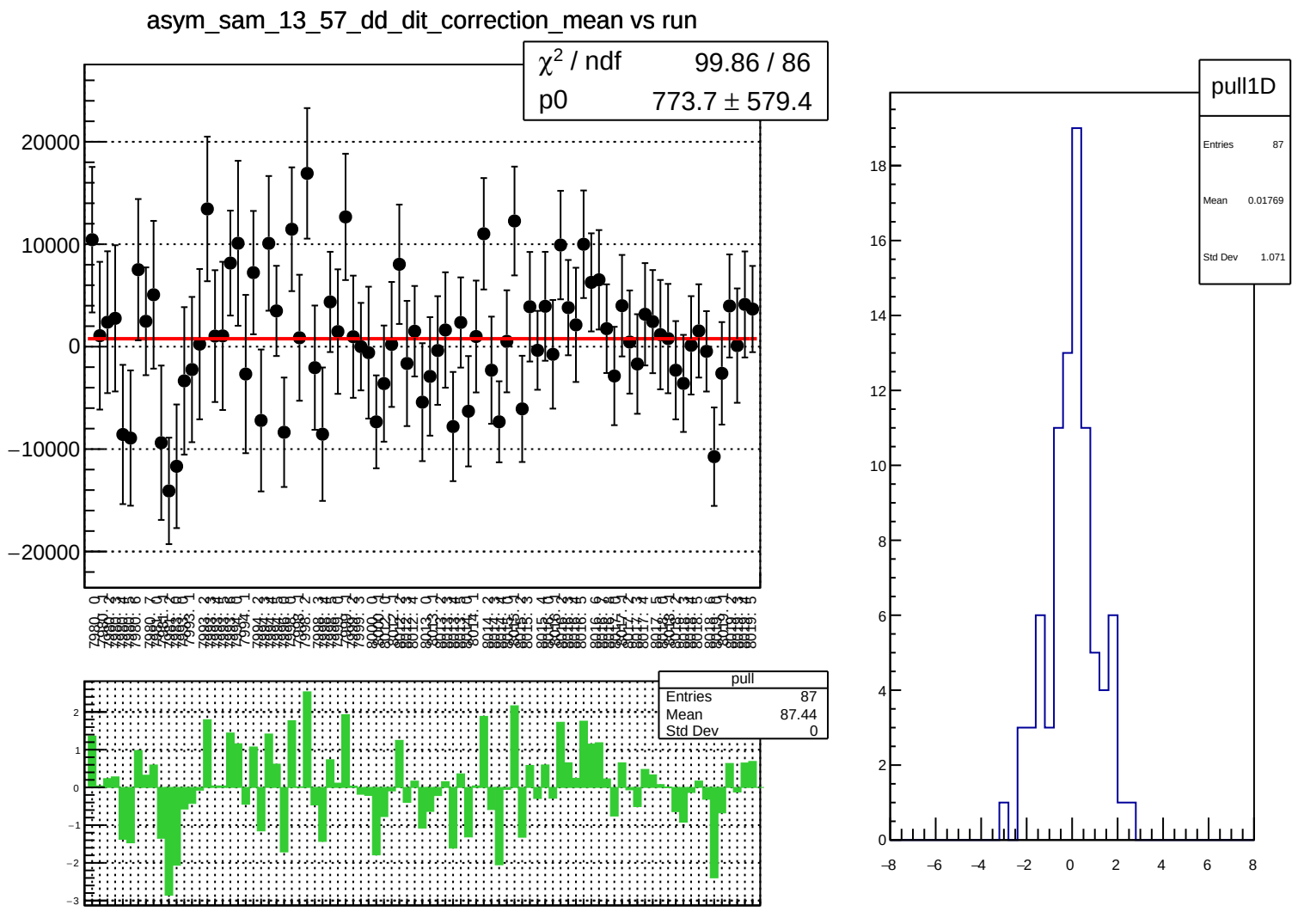
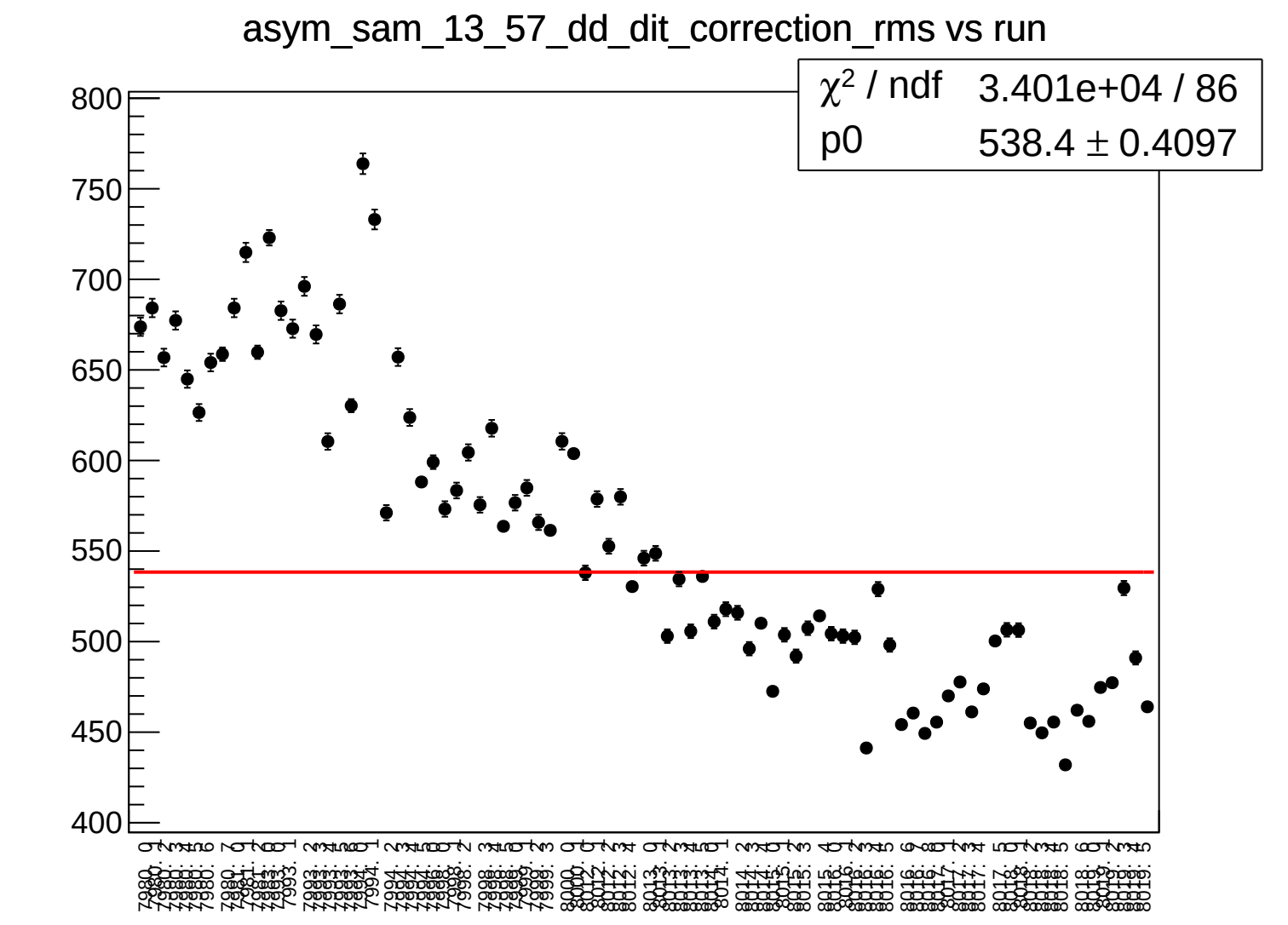
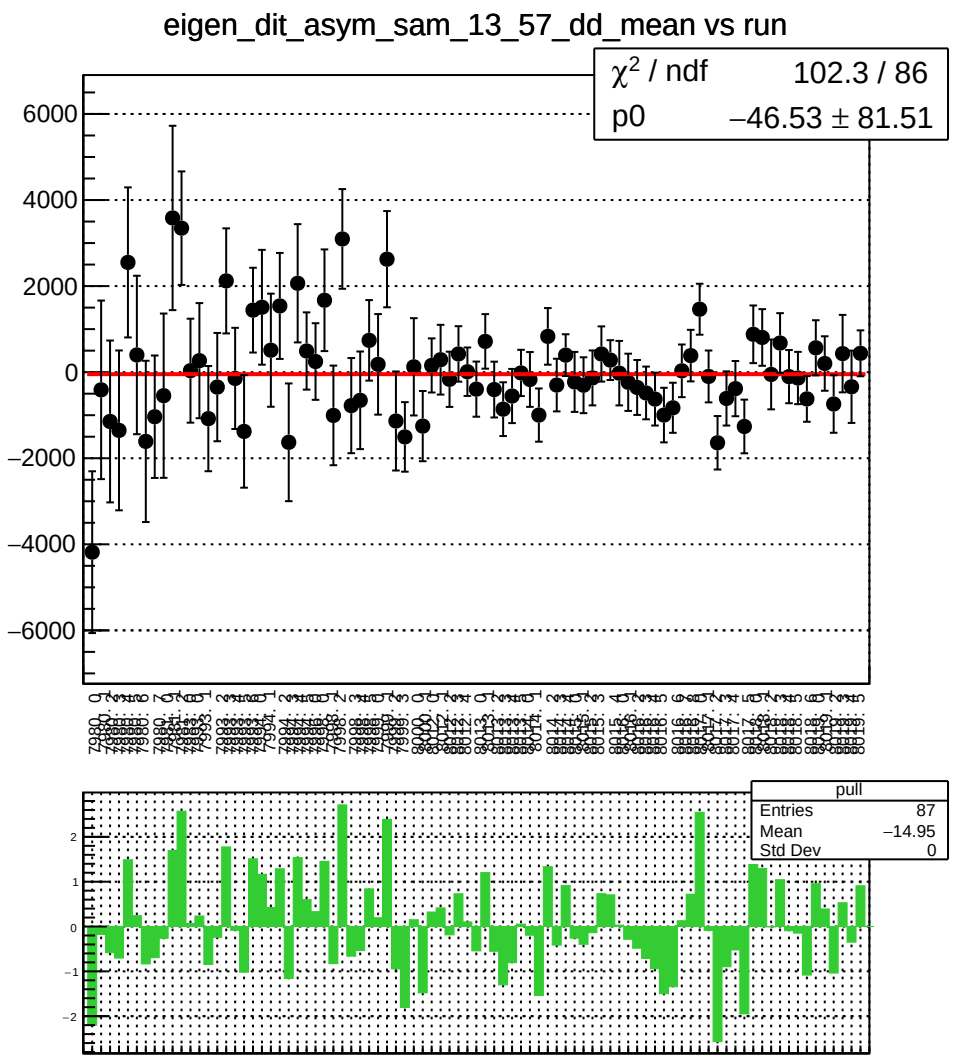
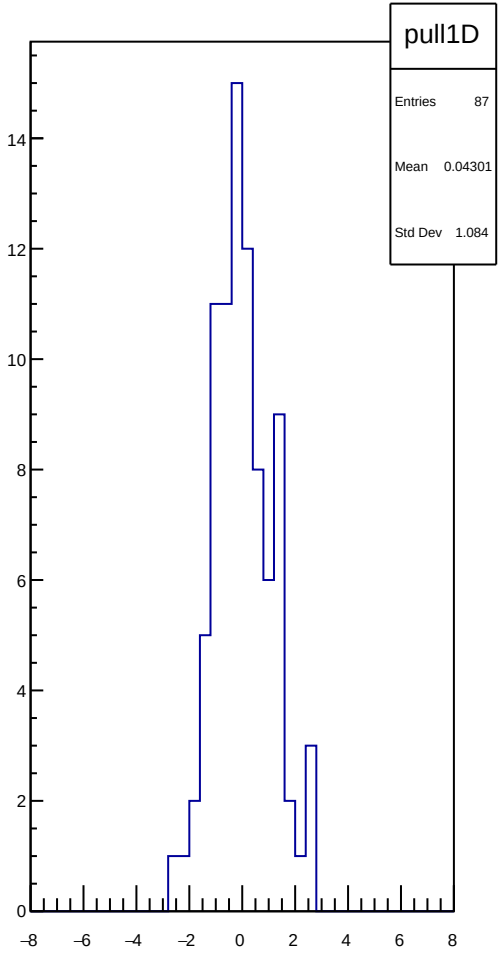
2
4
6
8

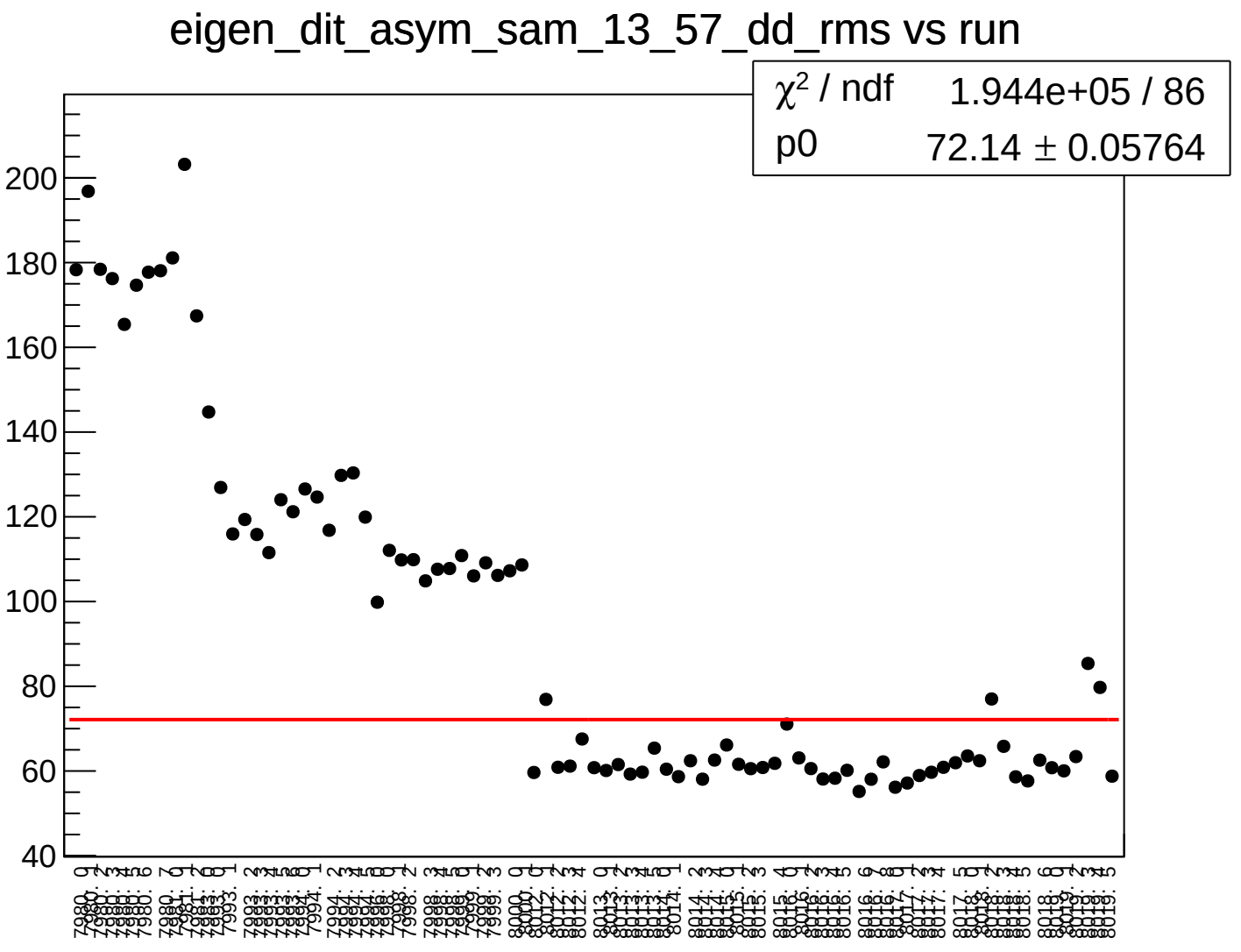

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.944e+05 / 86
p0 72.14 ± 0.05764
200
180
160
140
120
100
80
60
40

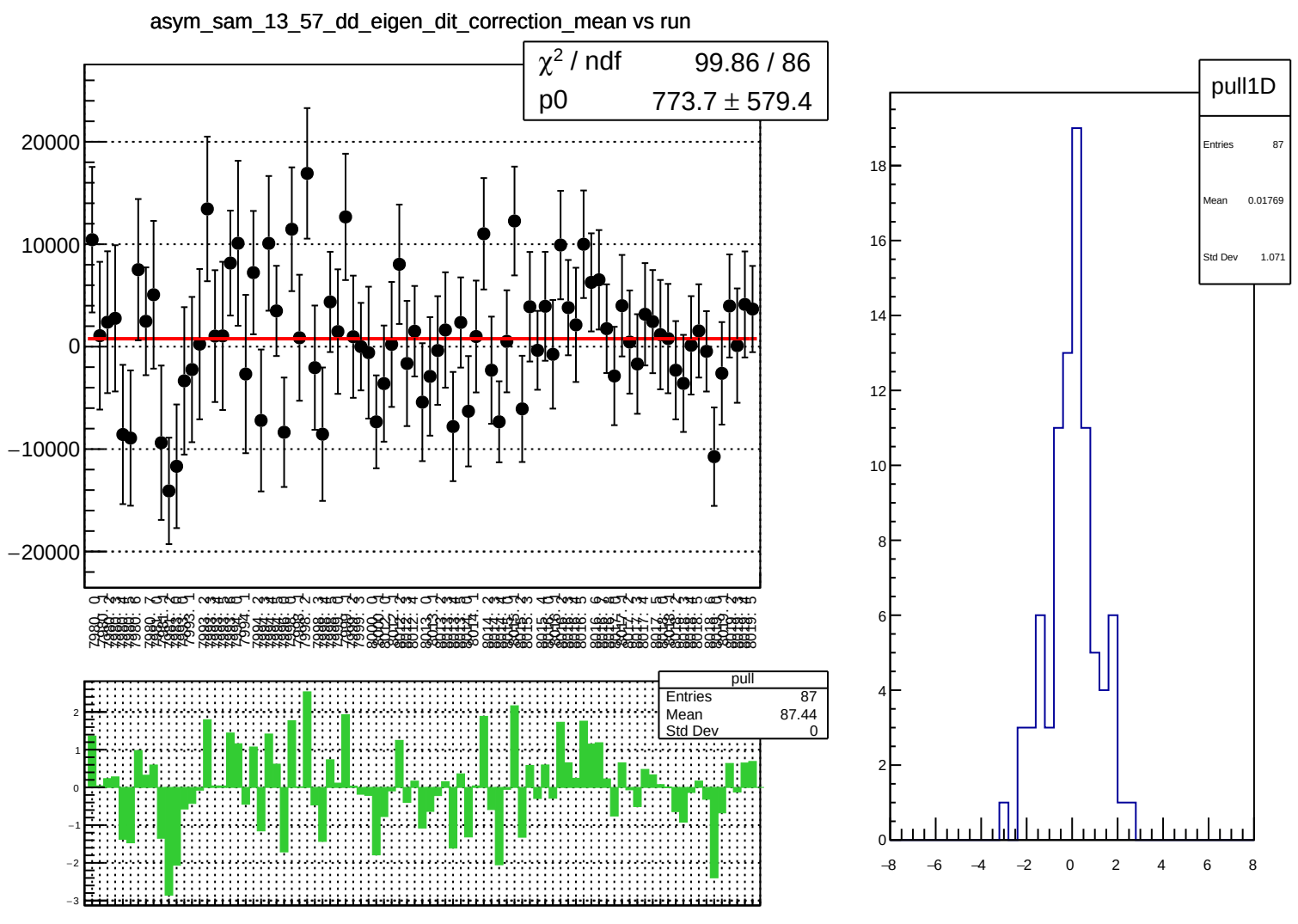

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 99.86 / 86
p0 773.7 ± 579.4
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 87.44
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.01769
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

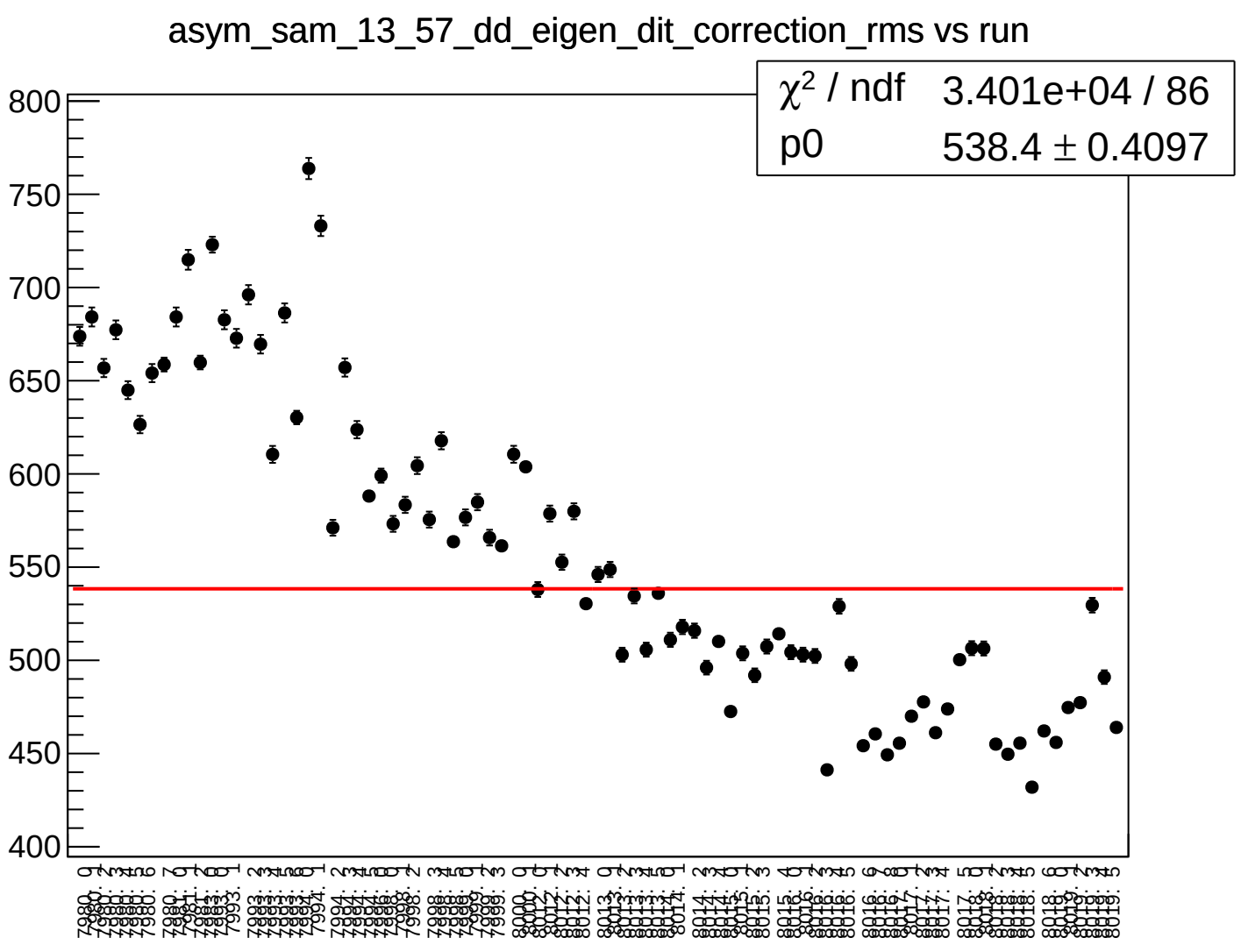

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 3.401e+04 / 86
p0 538.4 ± 0.4097
800
750
700
650
600
550
500
450
400

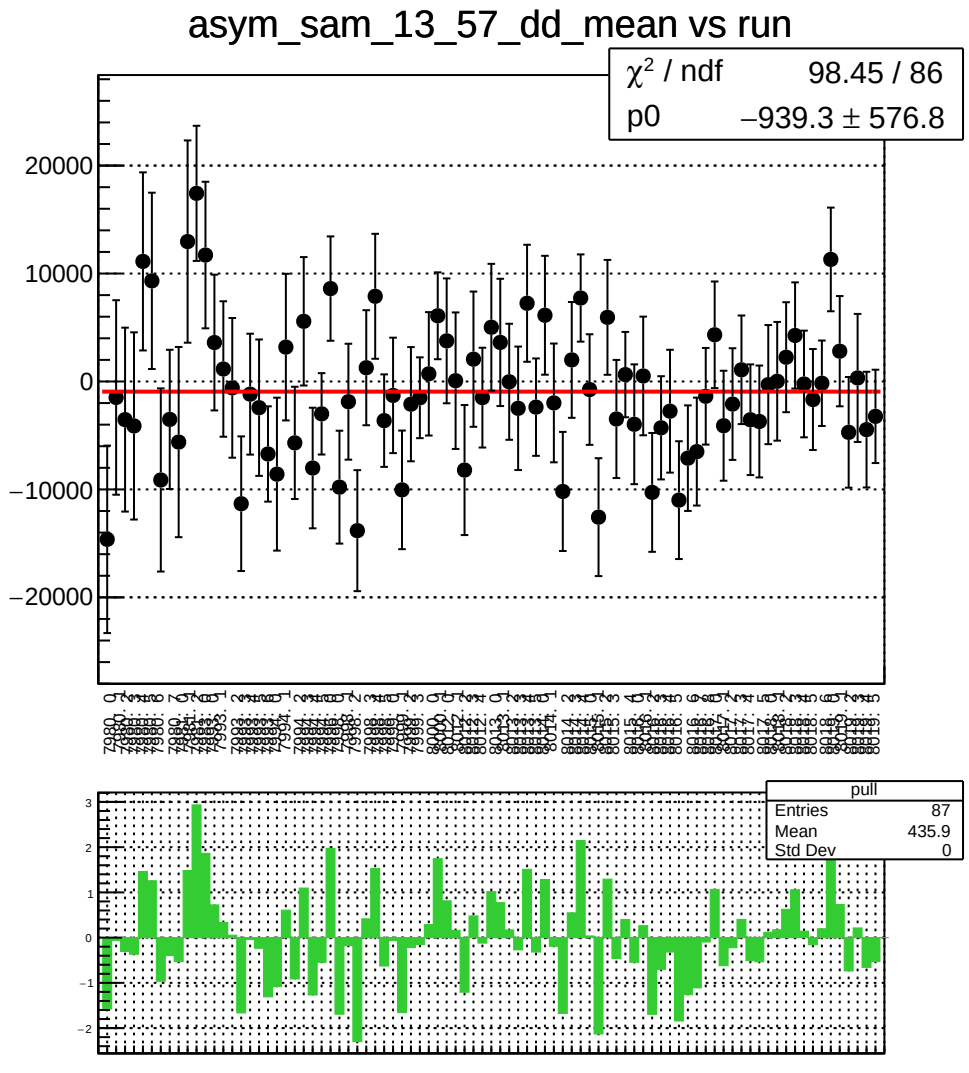

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 102.3 / 86
p0 −46.53 ± 81.51
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −14.95
Std Dev 0
2
1
0
−1
−2

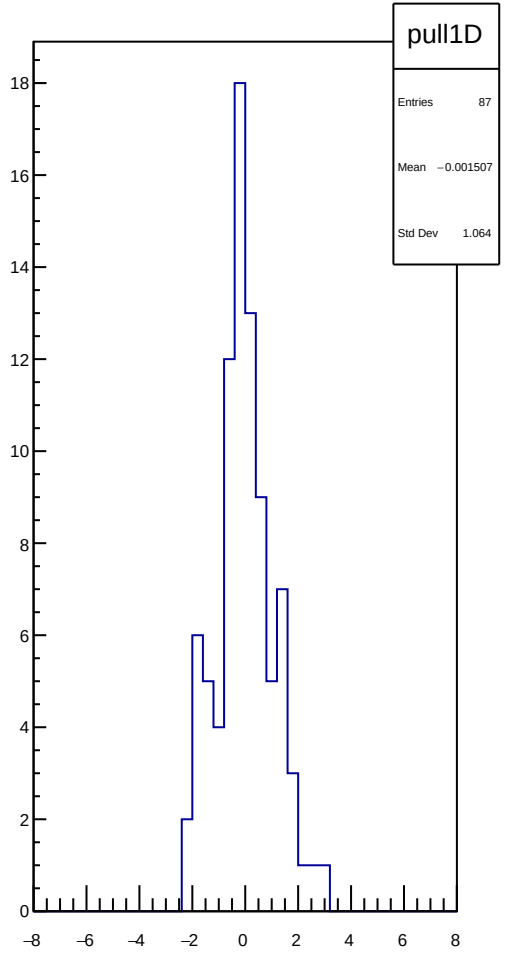

pull1D
Entries 87
Mean 0.04301
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

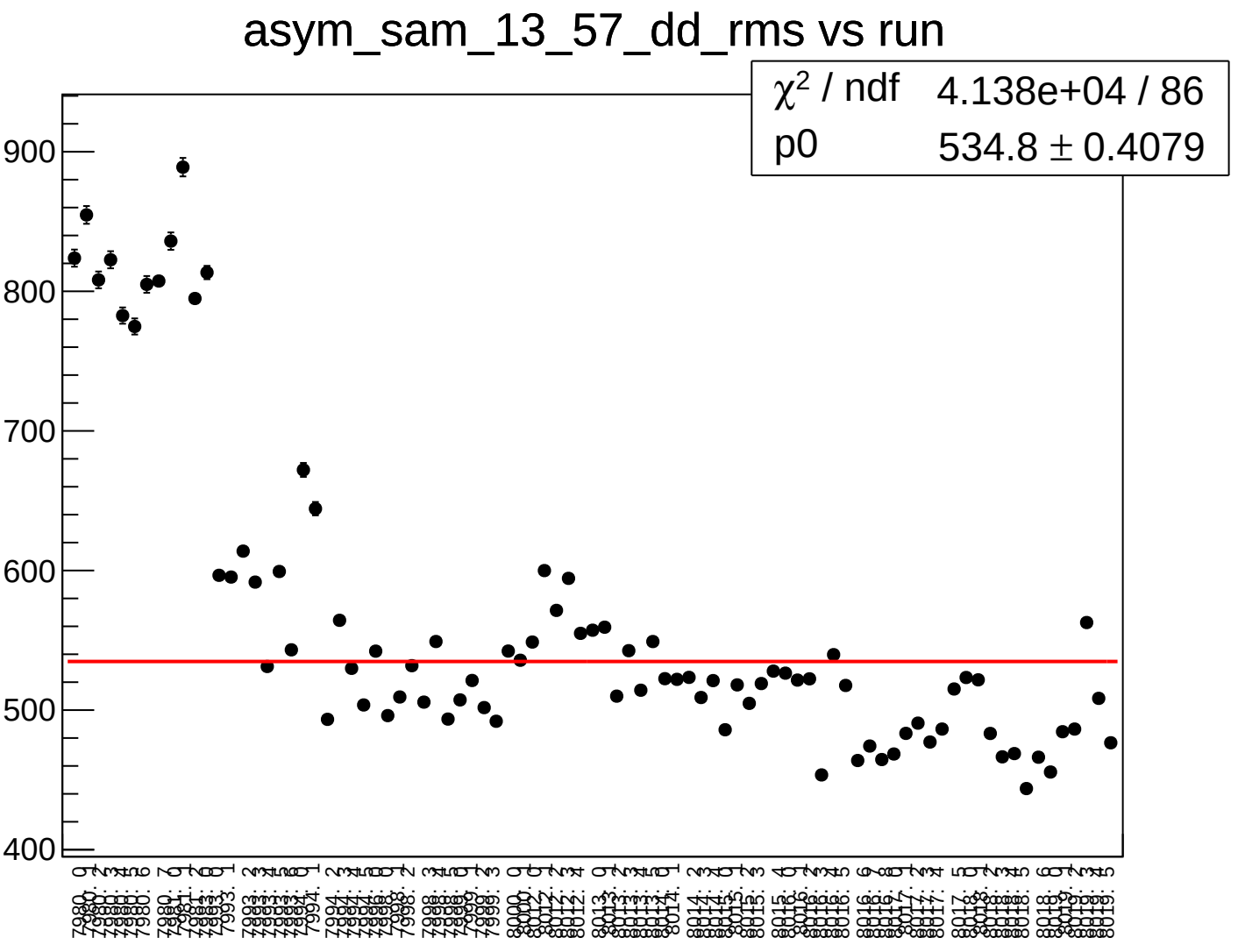

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.944e+05 / 86
p0 72.14 ± 0.05764
200
180
160
140
120
100
80
60
40

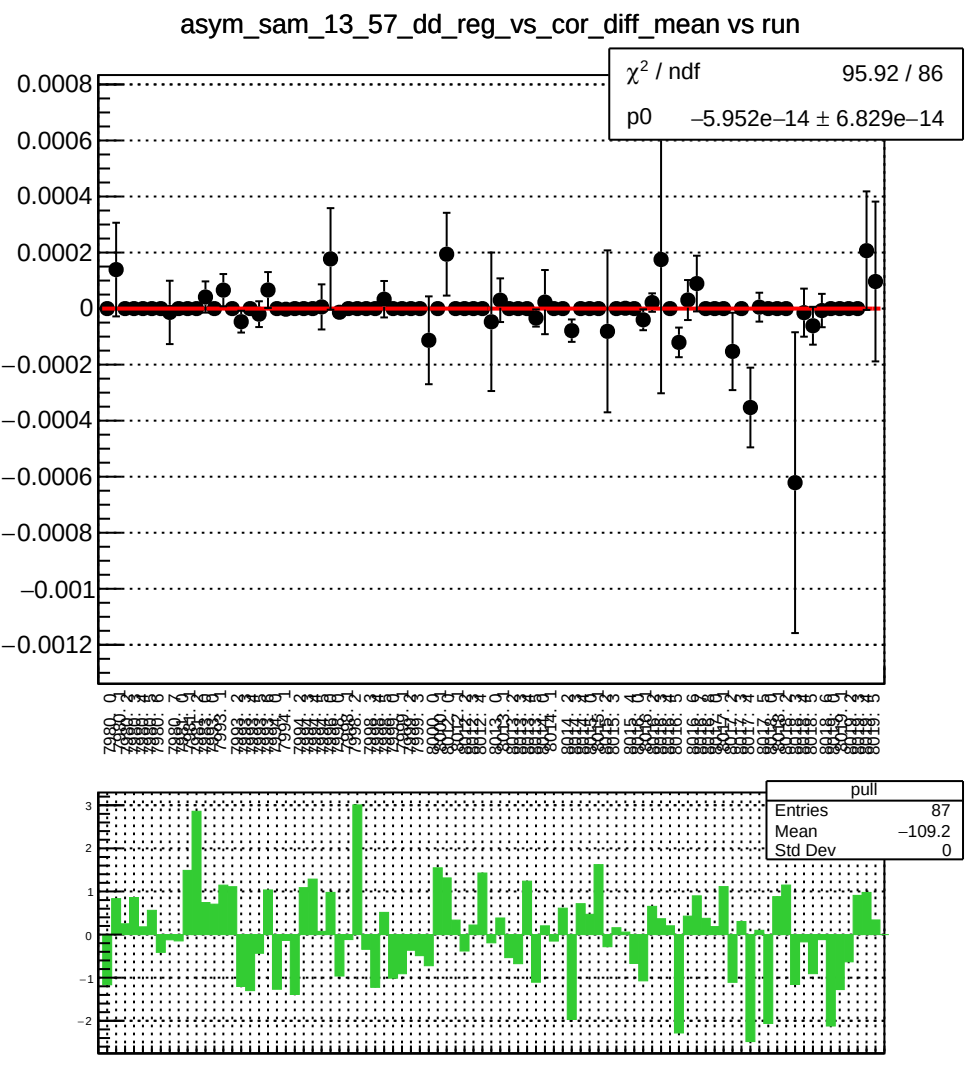

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.86 / 86
p0 773.7 ± 579.4
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 87.44
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.01769
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

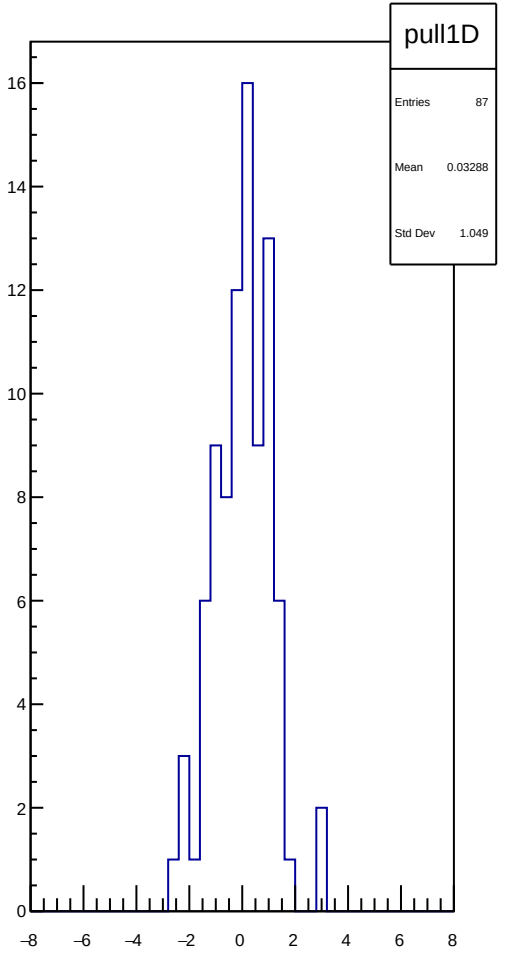

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.401e+04 / 86
p0 538.4 ± 0.4097
800
750
700
650
600
550
500
450
400

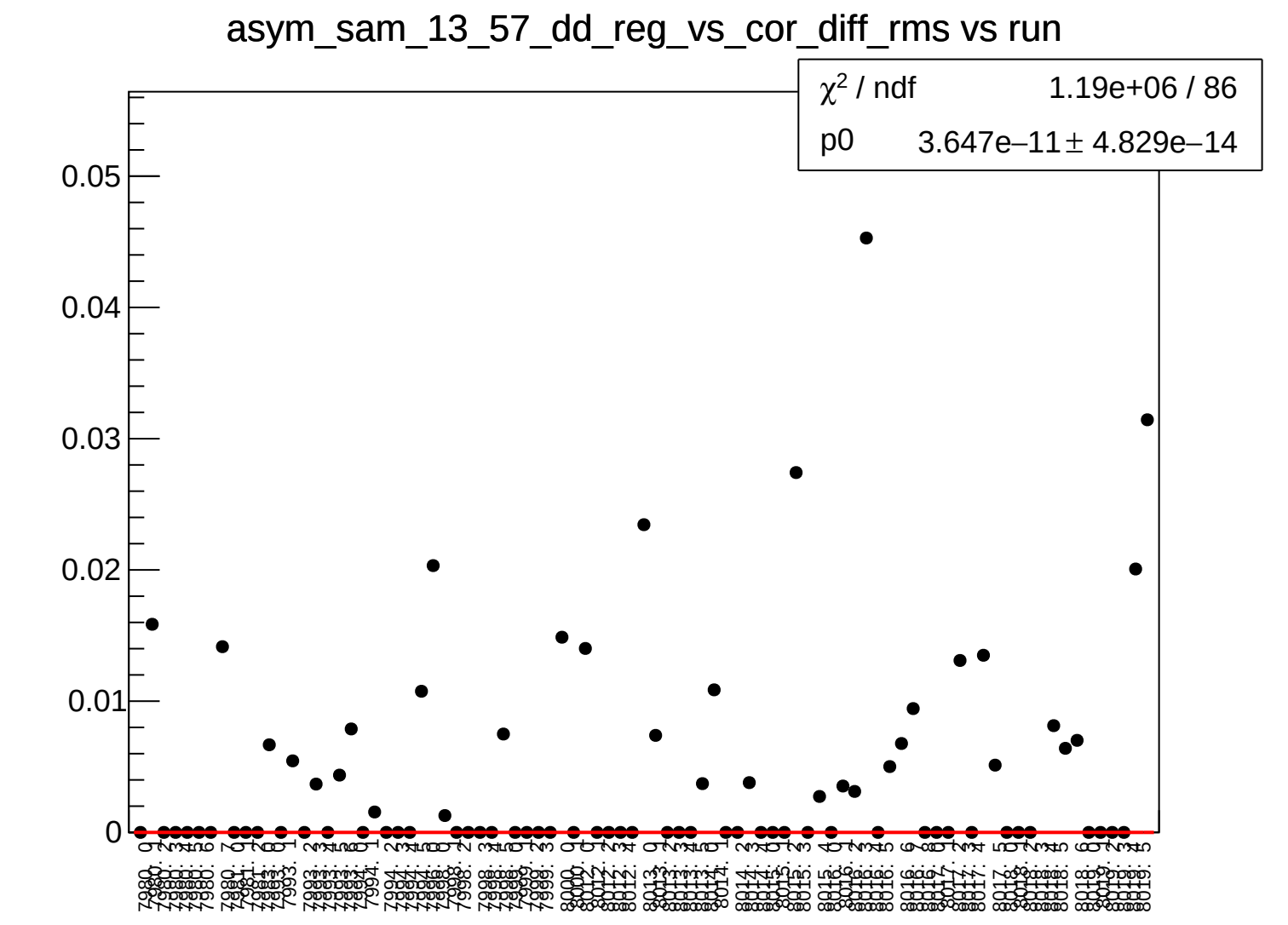

asym_sam_13_57_dd_mean vs run
χ² / ndf 98.45 / 86
p0 −939.3 ± 576.8
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 435.9
Std Dev 0
3
2
1
0
−1
−2

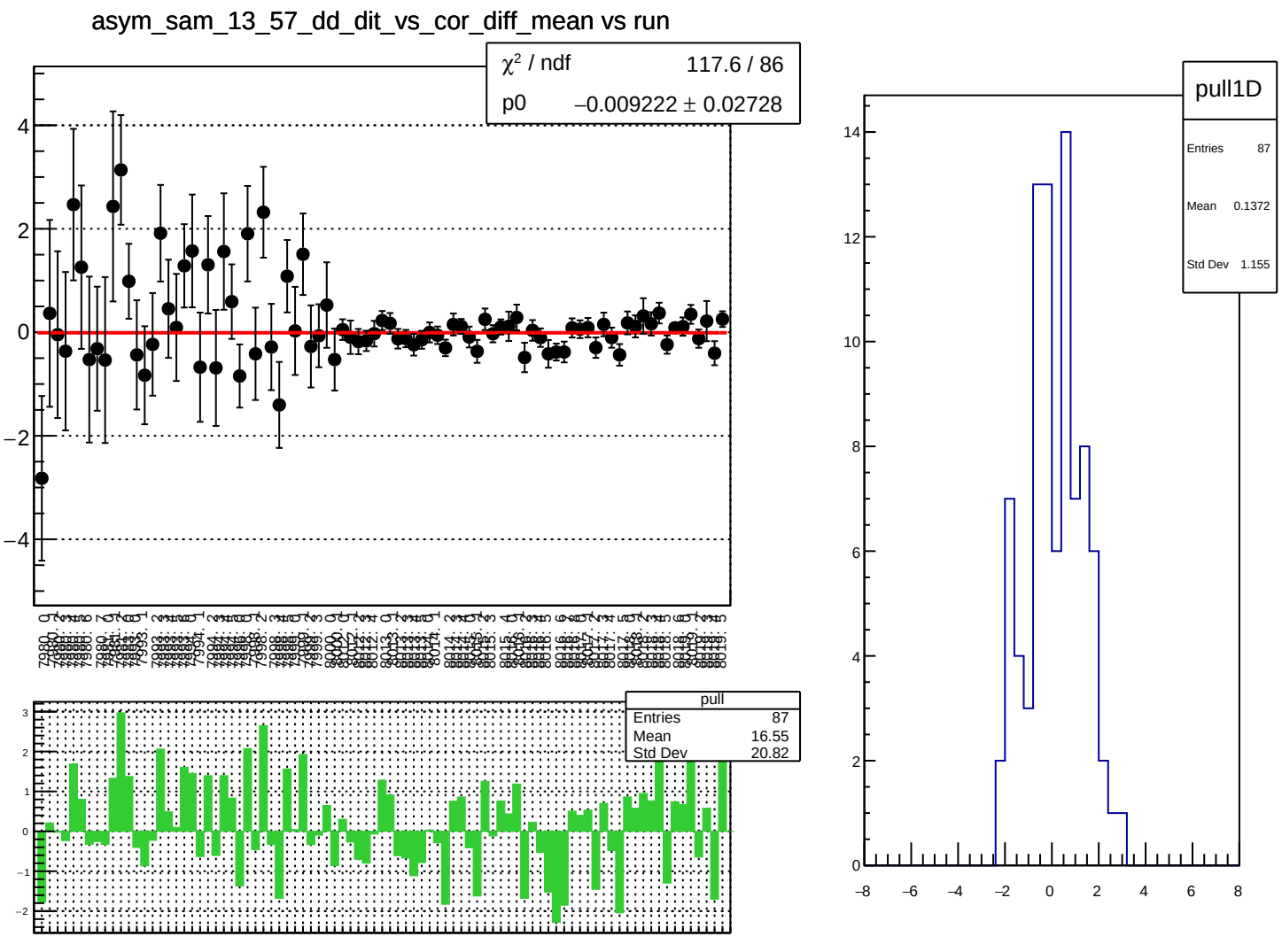

pull1D
Entries 87
Mean −0.001507
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

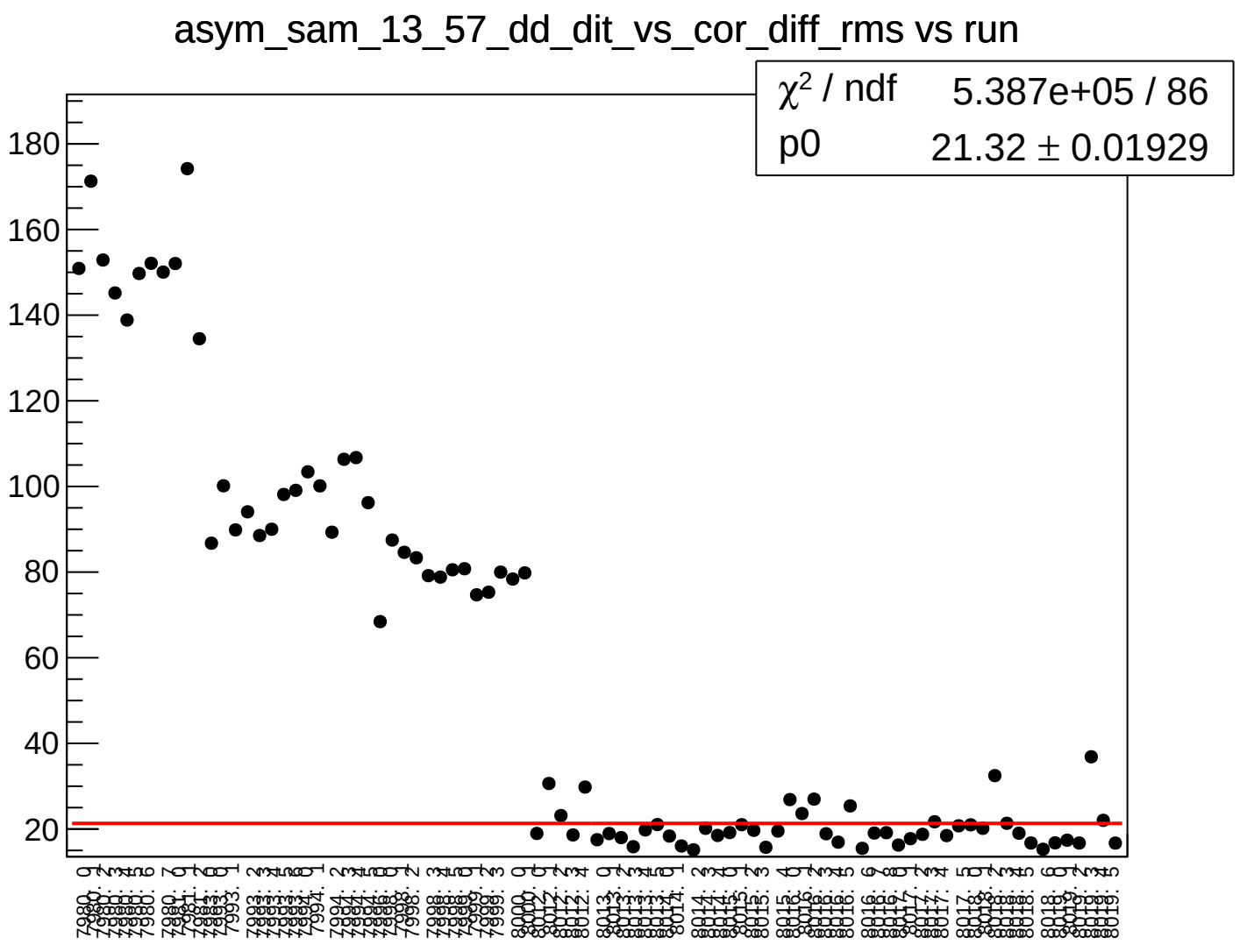

asym_sam_13_57_dd_rms vs run
χ² / ndf 4.138e+04 / 86
p0 534.8 ± 0.4079
900
800
700
600
500
400

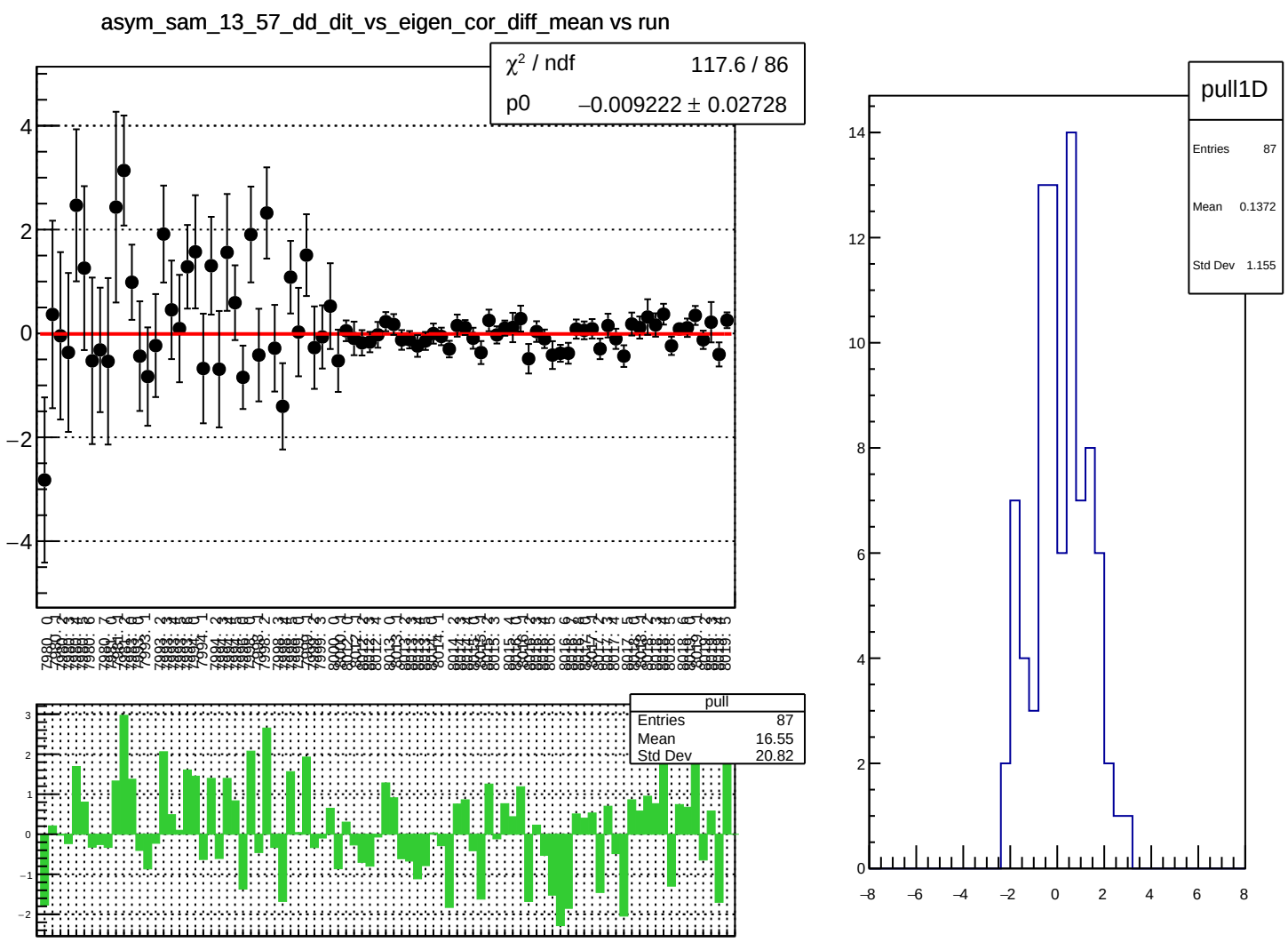

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.92 / 86
p0 −5.952e−14 ± 6.829e−14
pull
Entries 87
Mean −109.2
Std Dev 0

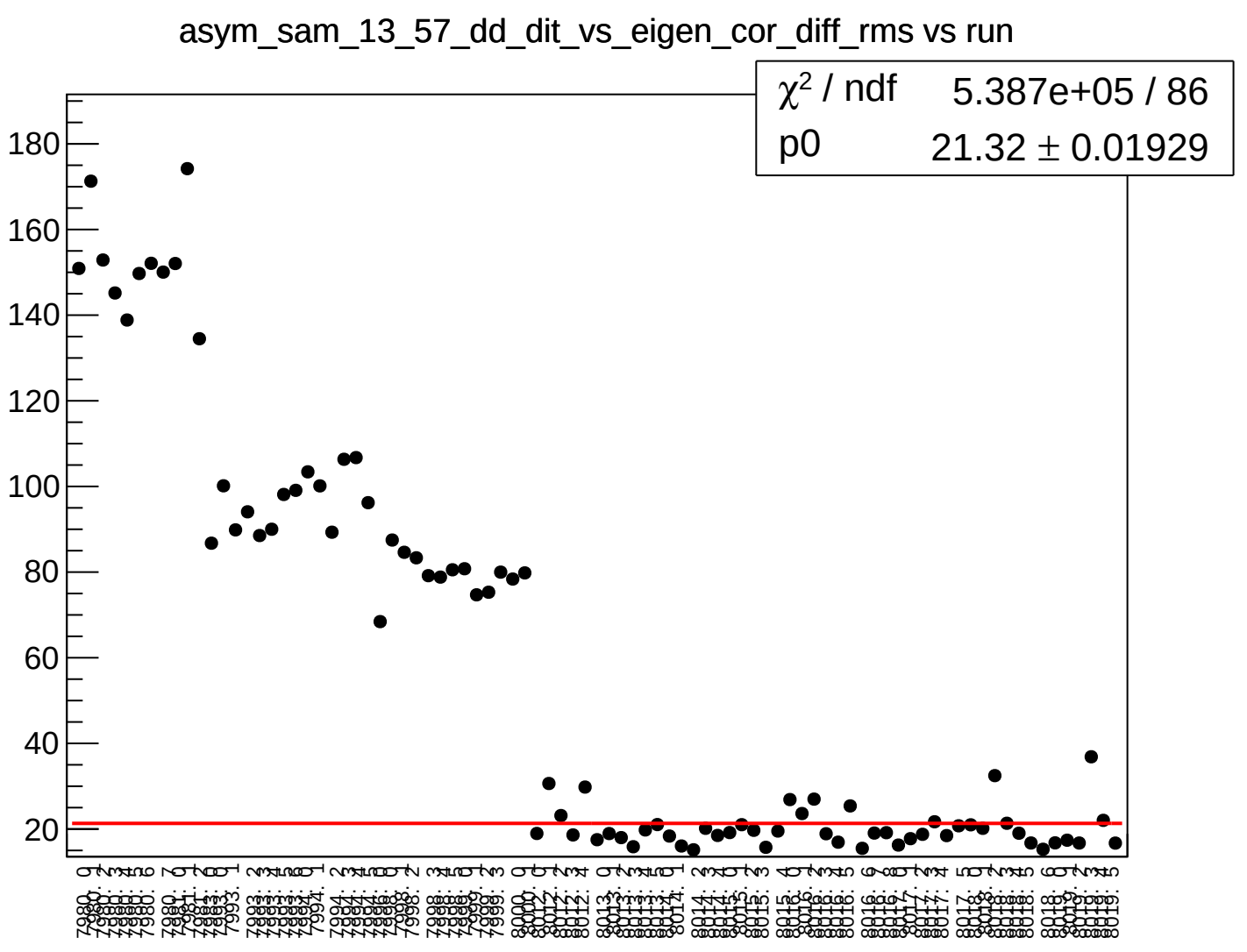

pull1D
Entries 87
Mean 0.03288
Std Dev 1.049

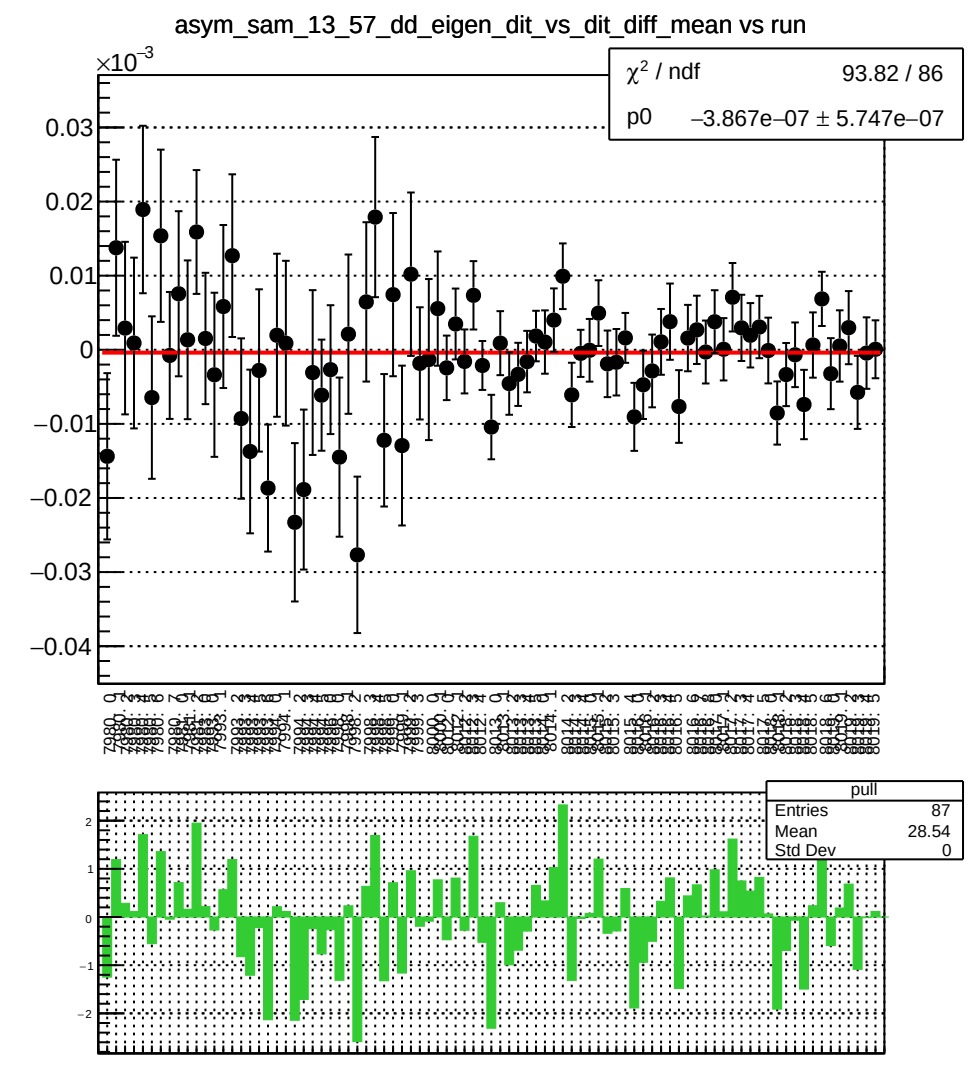

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.19e+06 / 86
p0 3.647e−11 ± 4.829e−14
0.05
0.04
0.03
0.02
0.01
0

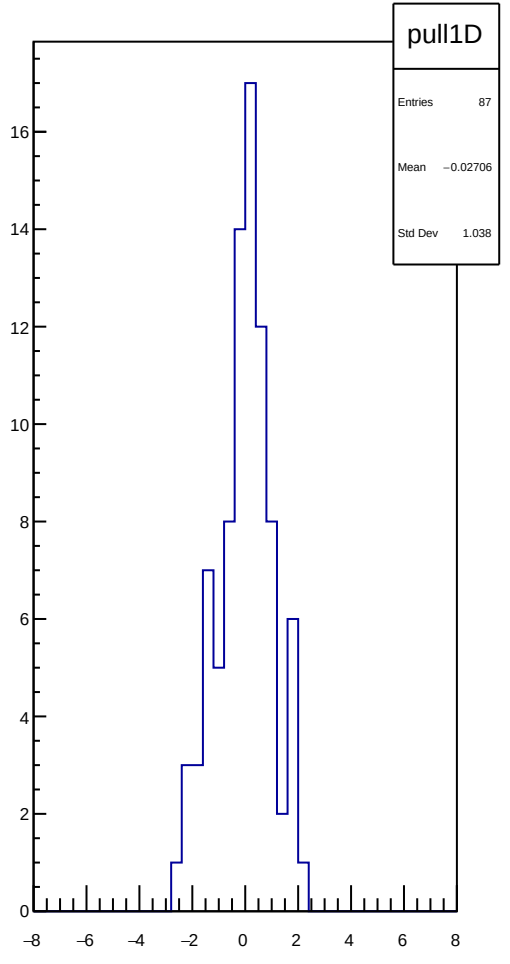

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 117.6 / 86
p0 −0.009222 ± 0.02728
pull
Entries 87
Mean 16.55
Std Dev 20.82
pull1D
Entries 87
Mean 0.1372
Std Dev 1.155

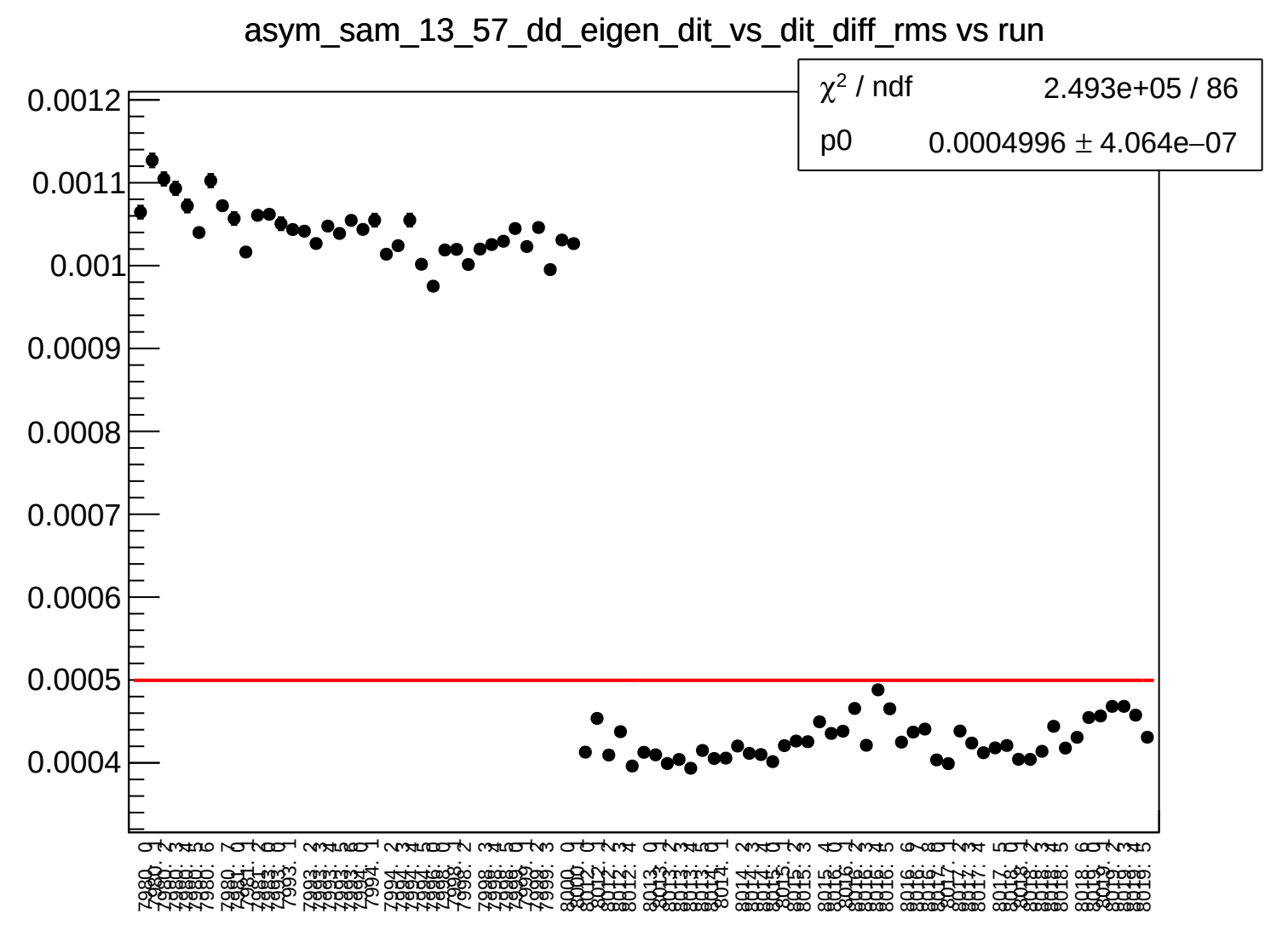

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.387e+05 / 86
p0 21.32 ± 0.01929
180
160
140
120
100
80
60
40
20

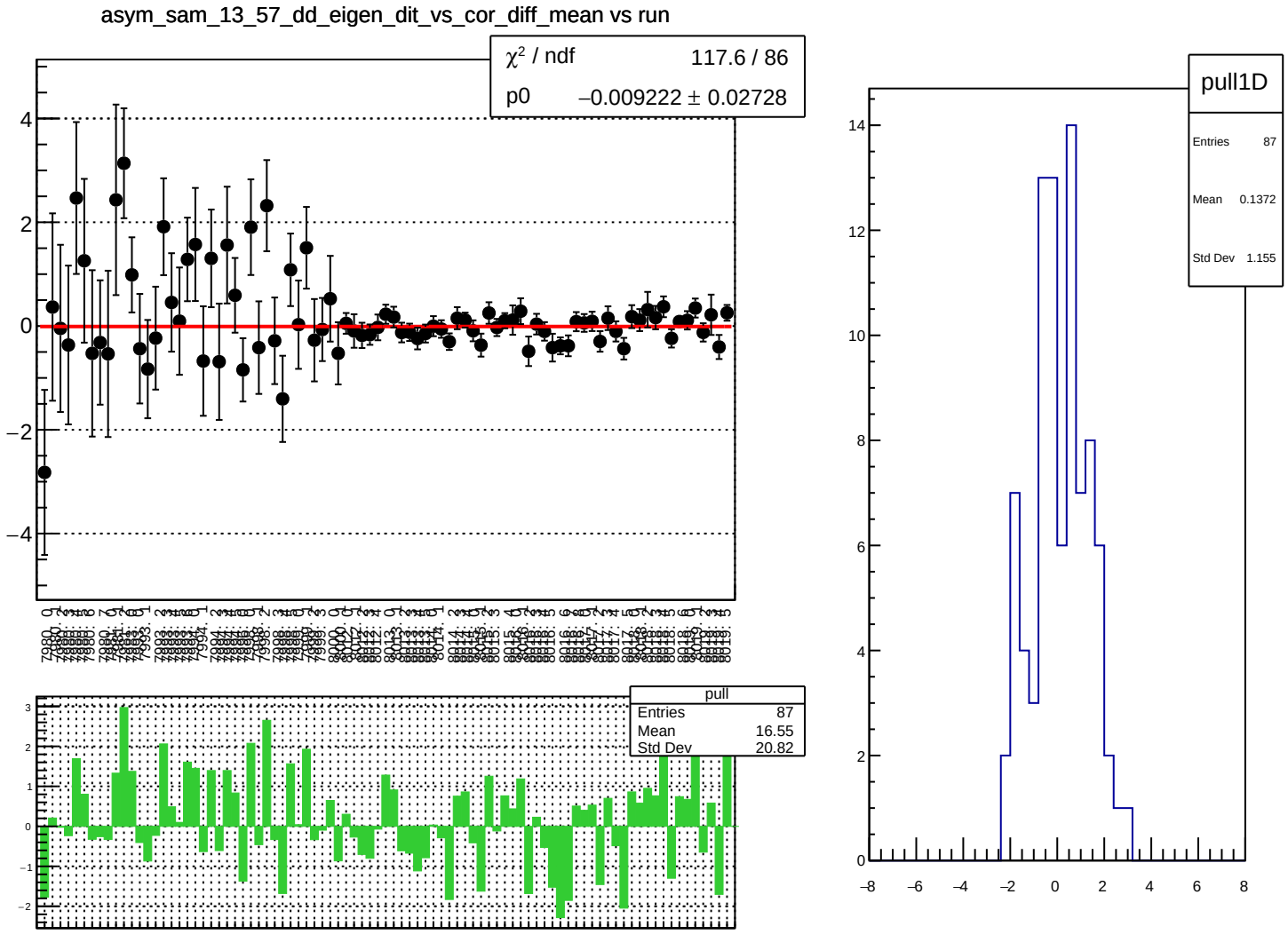

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.6 / 86
p0 −0.009222 ± 0.02728
pull
Entries 87
Mean 16.55
Std Dev 20.82
pull1D
Entries 87
Mean 0.1372
Std Dev 1.155

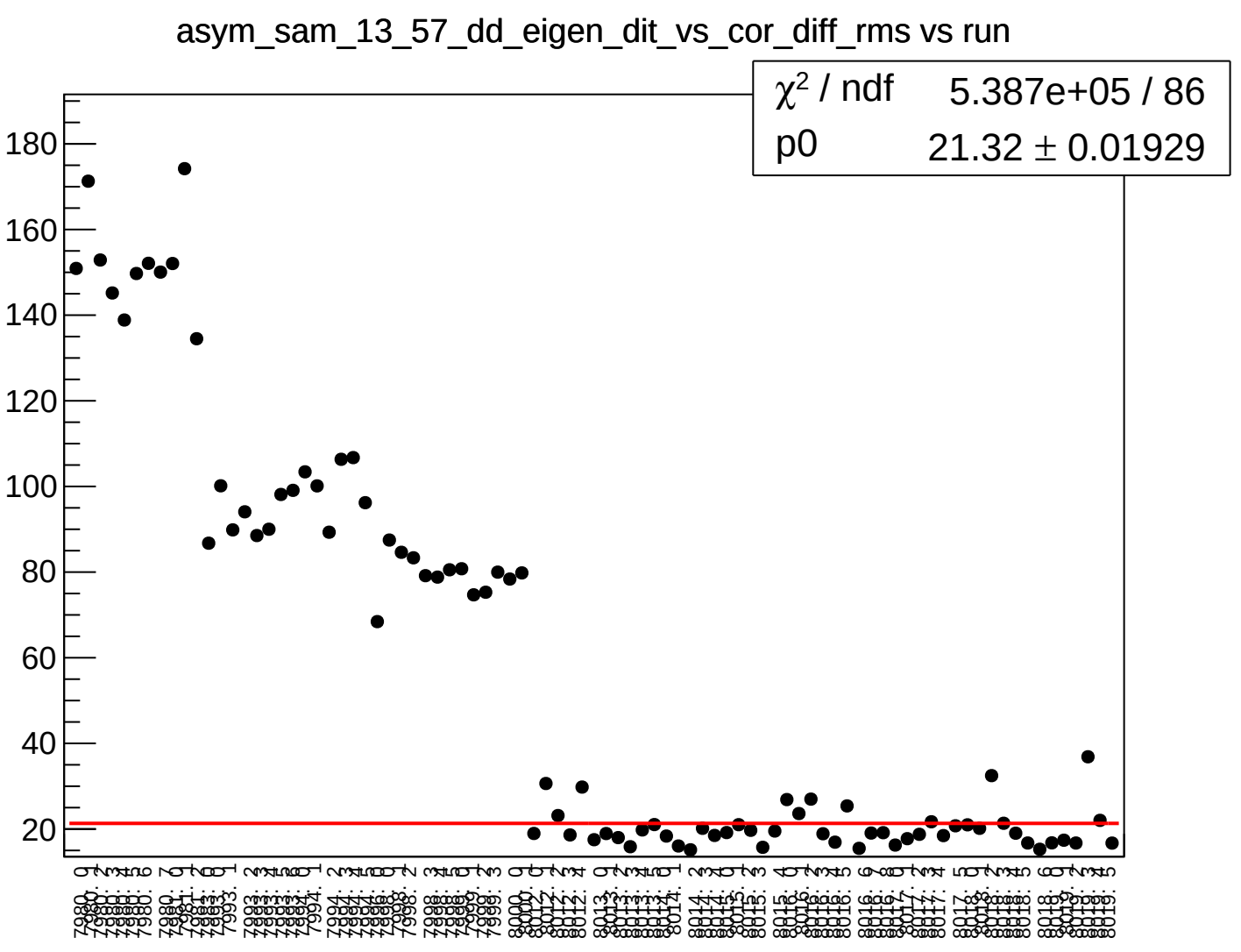

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.387e+05 / 86
p0 21.32 ± 0.01929
180
160
140
120
100
80
60
40
20

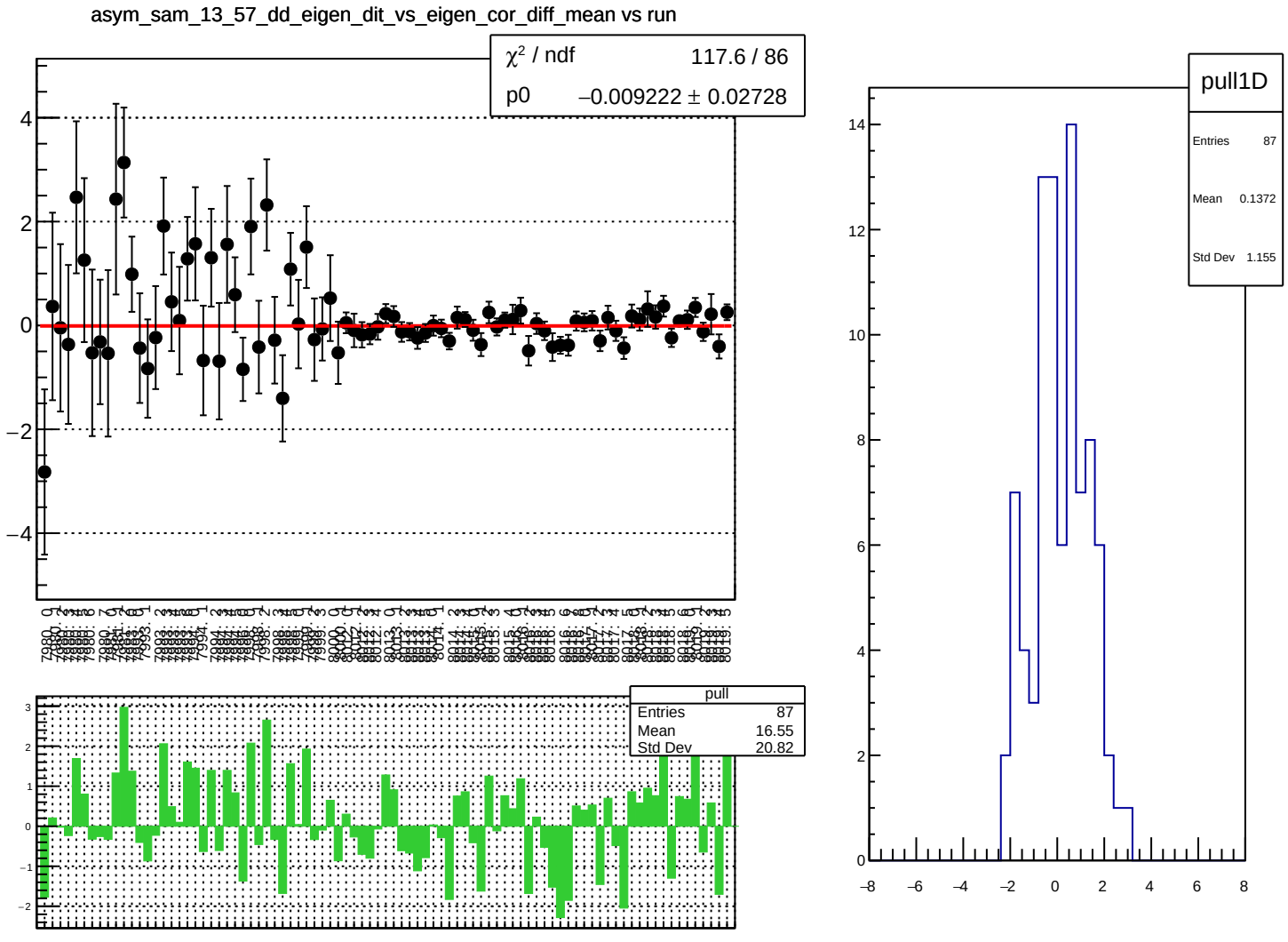

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.82 / 86
p0 −3.867e−07 ± 5.747e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 87
Mean 28.54
Std Dev 0
2
1
0
−1
−2

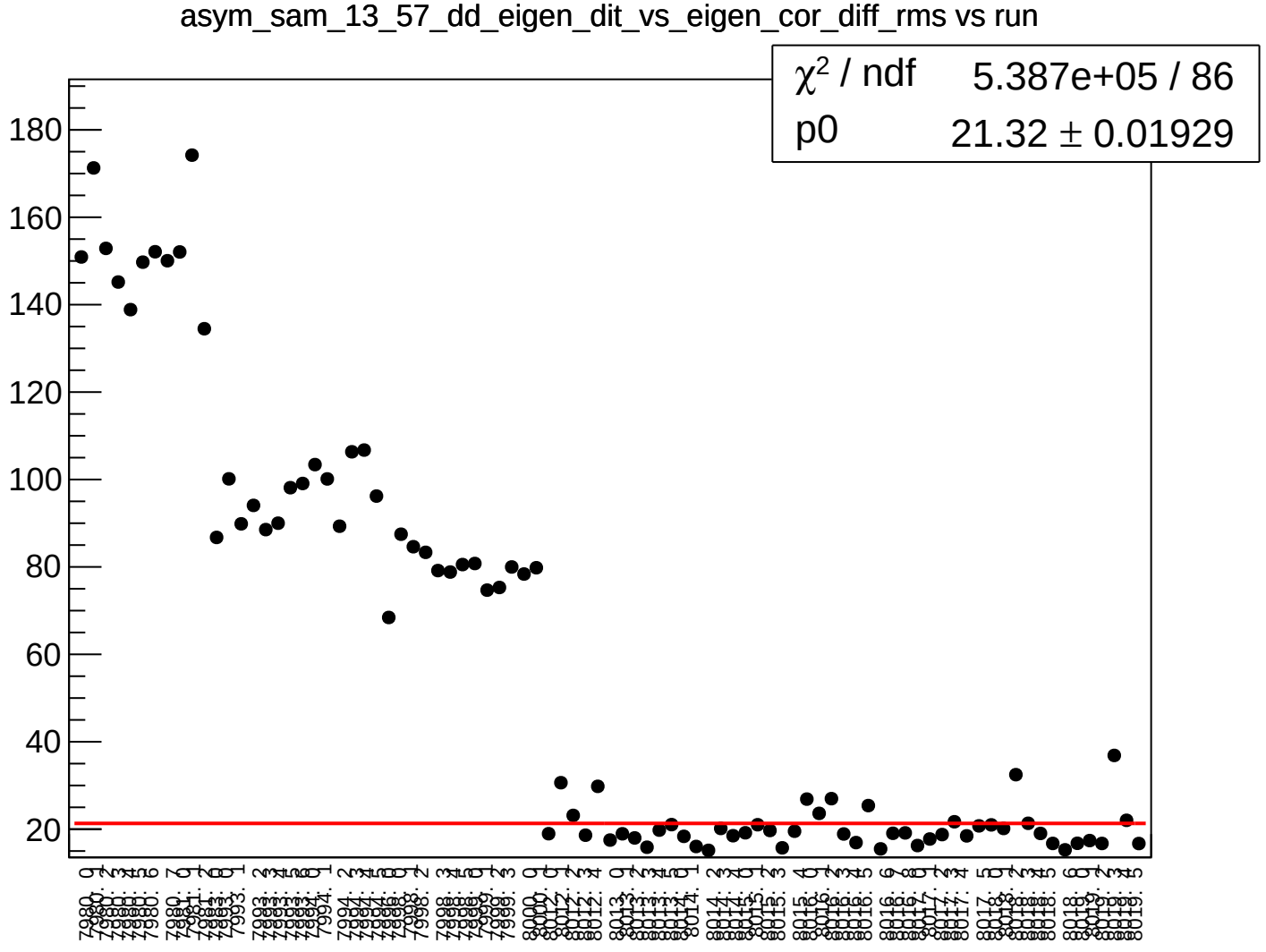

pull1D
Entries 87
Mean −0.02706
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

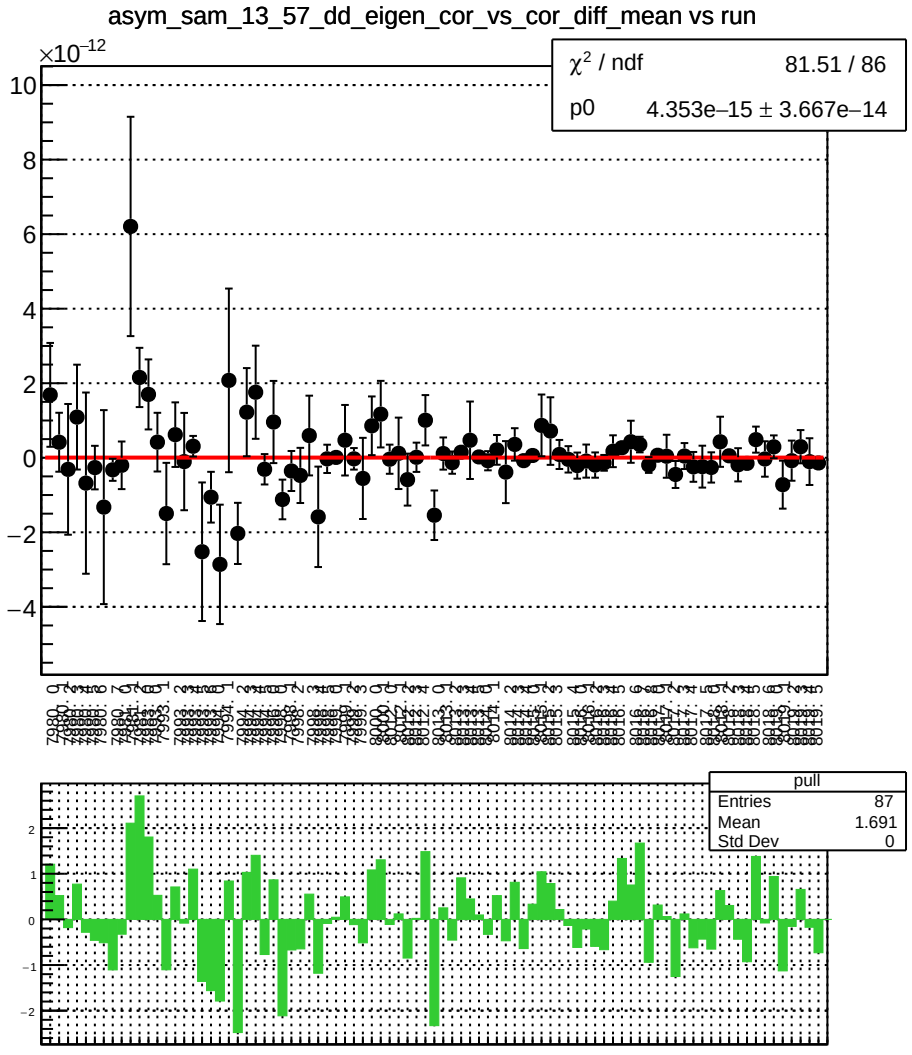

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.493e+05 / 86
p0 0.0004996 ± 4.064e−07
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

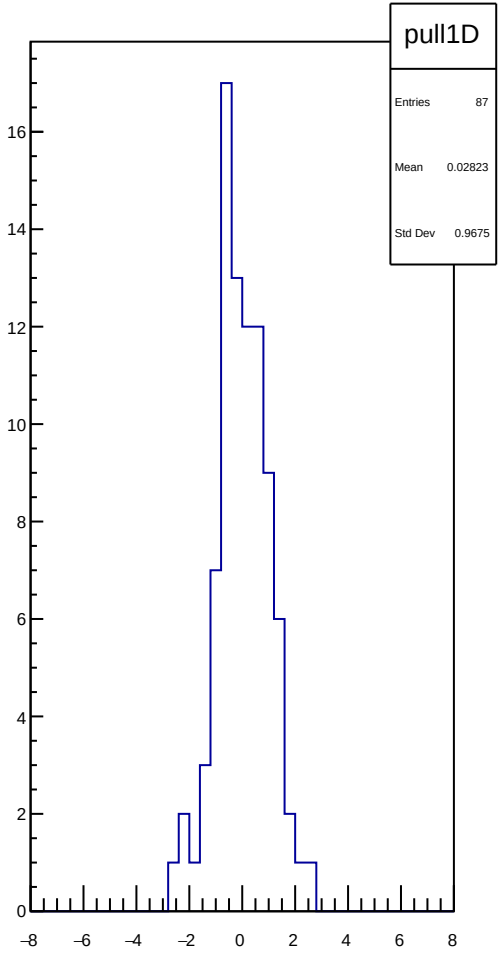

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117.6 / 86
p0 −0.009222 ± 0.02728
pull
Entries 87
Mean 16.55
Std Dev 20.82
pull1D
Entries 87
Mean 0.1372
Std Dev 1.155

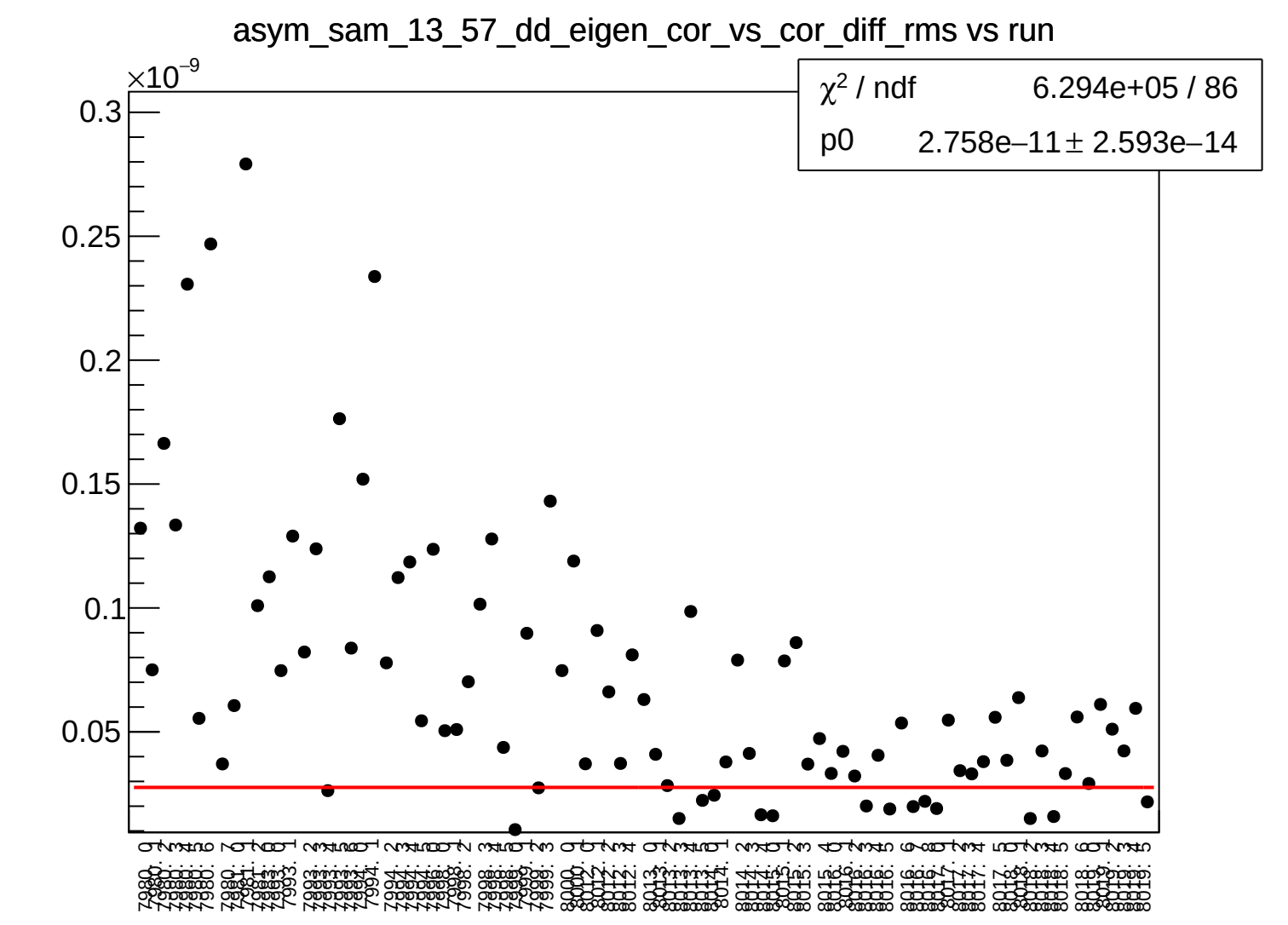

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.387e+05 / 86
p0 21.32 ± 0.01929
180
160
140
120
100
80
60
40
20

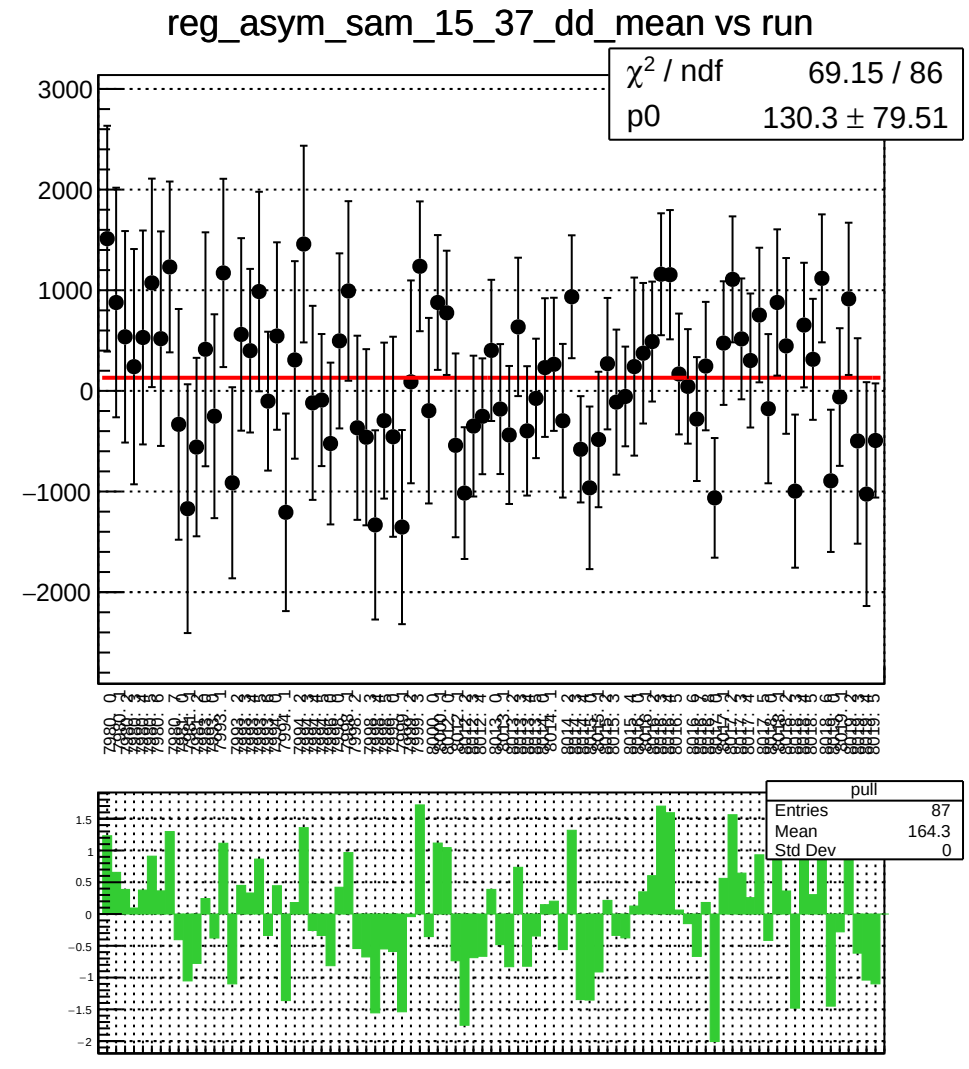

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.6 / 86
p0 −0.009222 ± 0.02728
pull
Entries 87
Mean 16.55
Std Dev 20.82
pull1D
Entries 87
Mean 0.1372
Std Dev 1.155

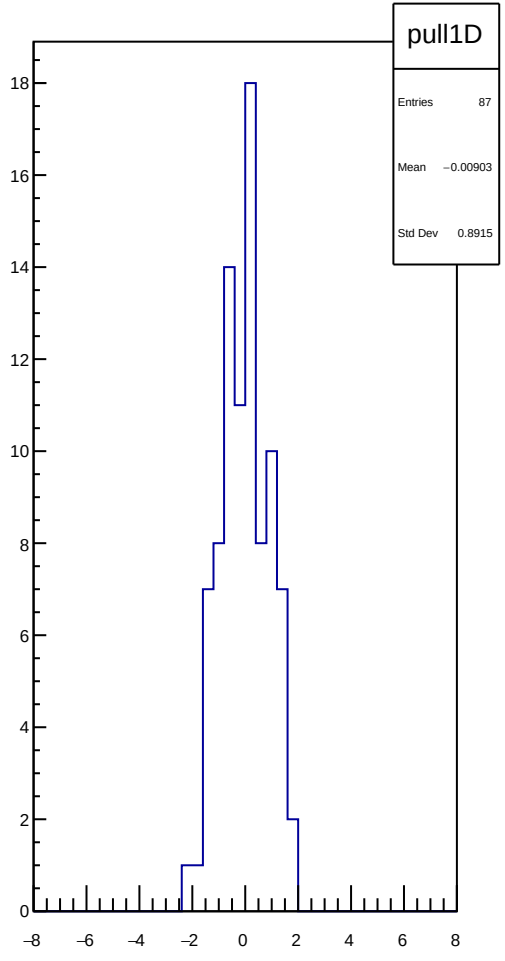

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.387e+05 / 86
p0 21.32 ± 0.01929
180
160
140
120
100
80
60
40
20

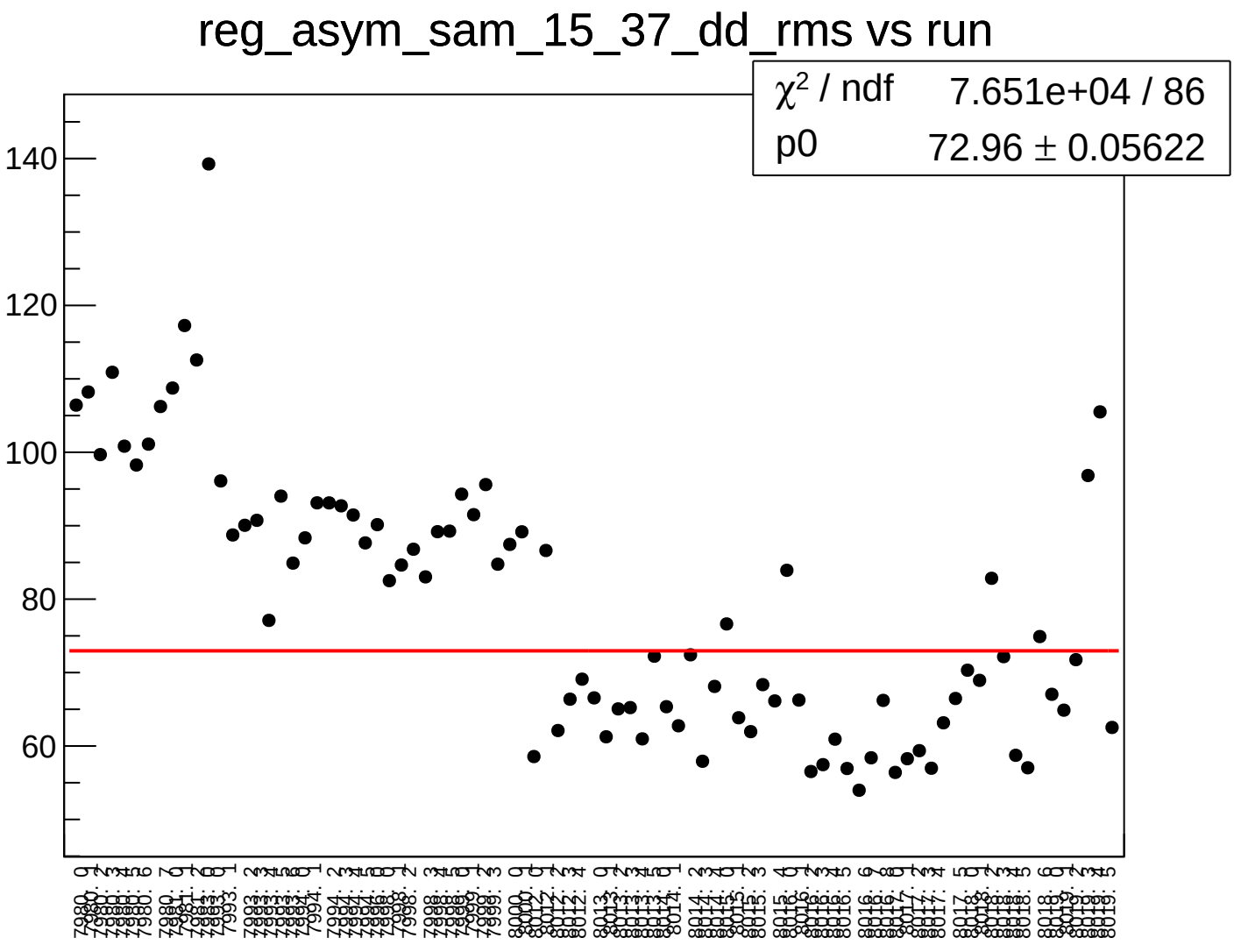

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.51 / 86
p0 4.353e−15 ± 3.667e−14
pull
Entries 87
Mean 1.691
Std Dev 0

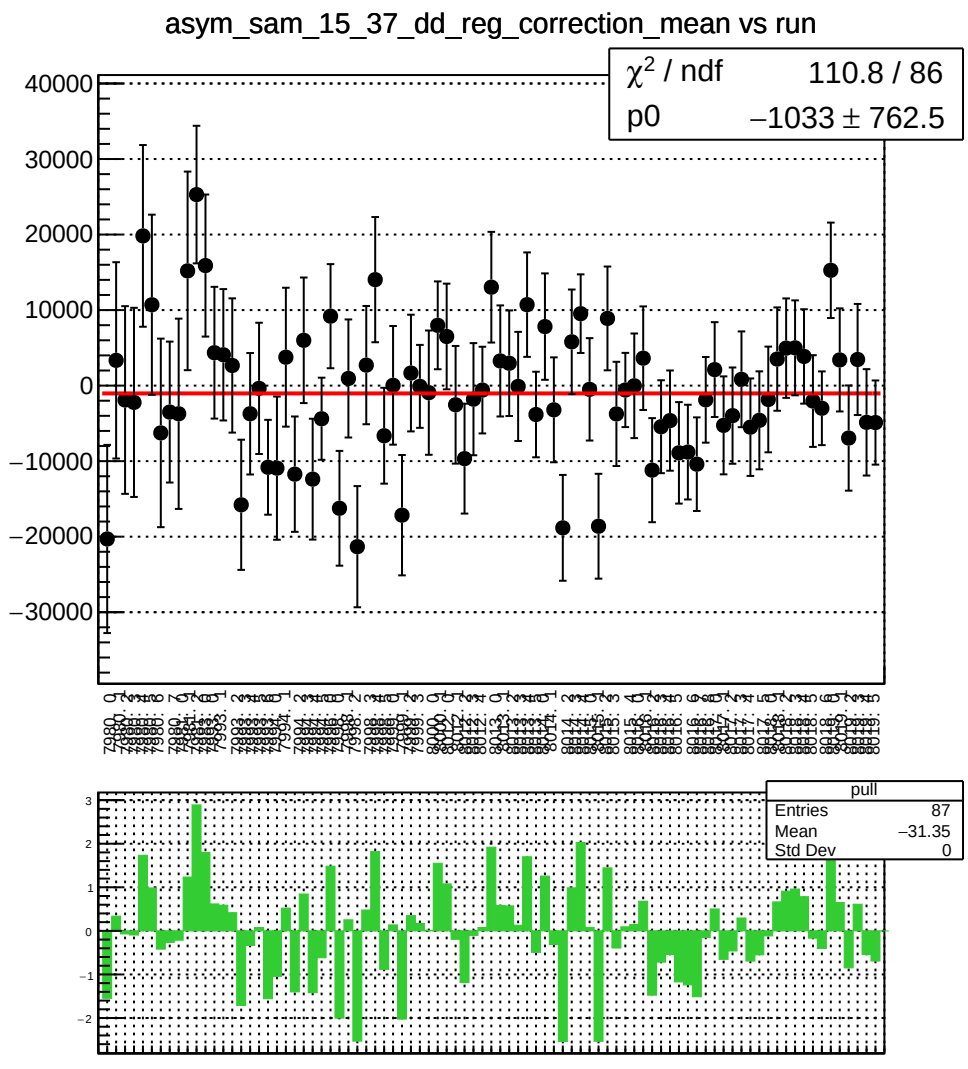

pull1D
Entries 87
Mean 0.02823
Std Dev 0.9675

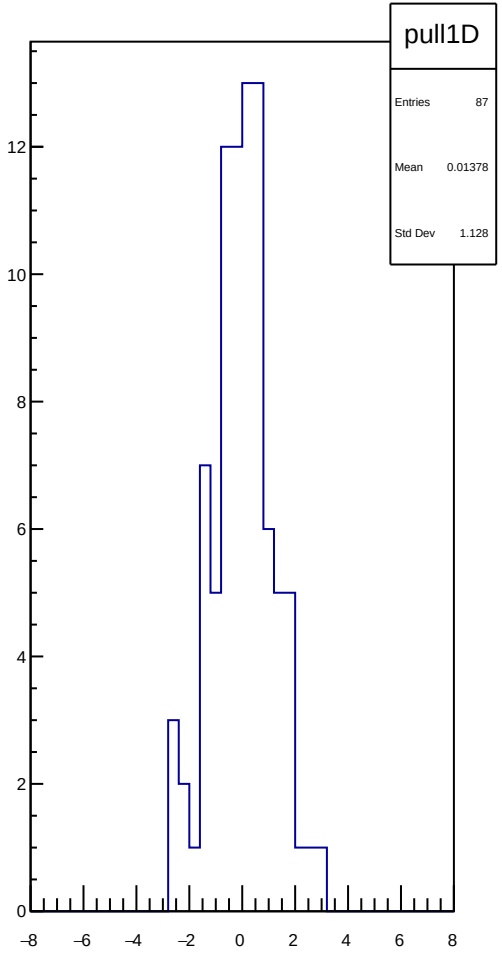

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.294e+05 / 86
p0 2.758e−11 ± 2.593e−14
0.3
0.25
0.2
0.15
0.1
0.05

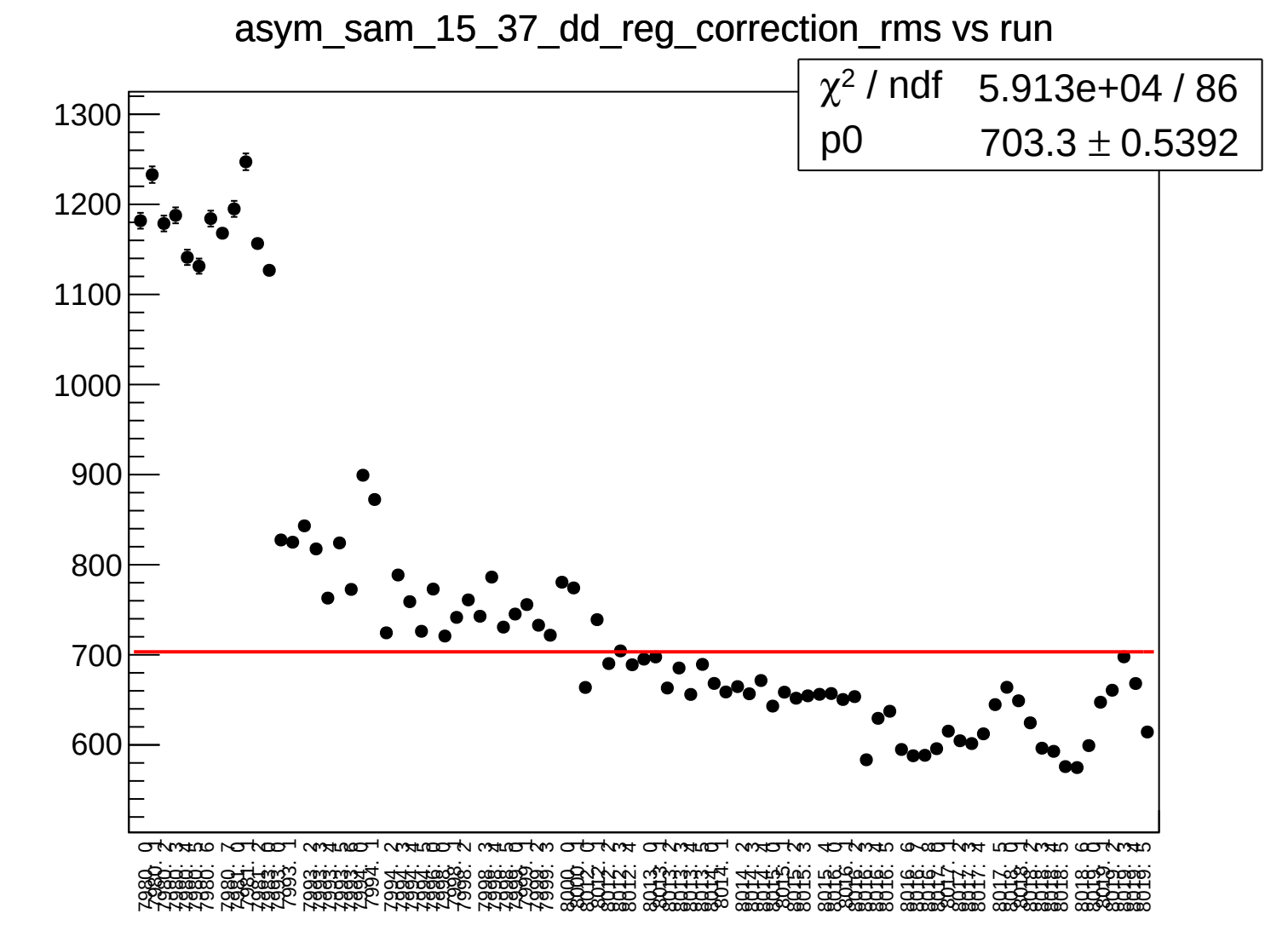

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 69.15 / 86
p0 130.3 ± 79.51
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 164.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

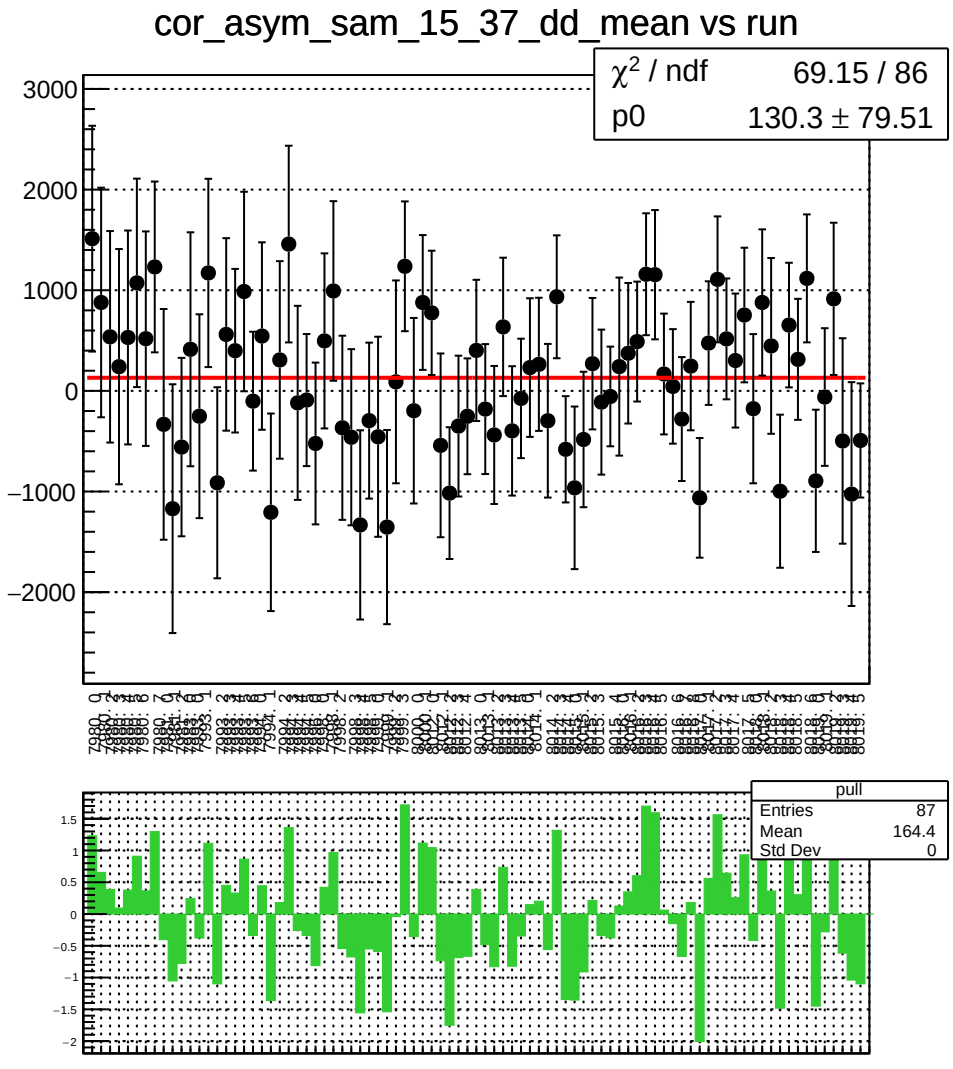

pull1D
Entries 87
Mean −0.00903
Std Dev 0.8915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

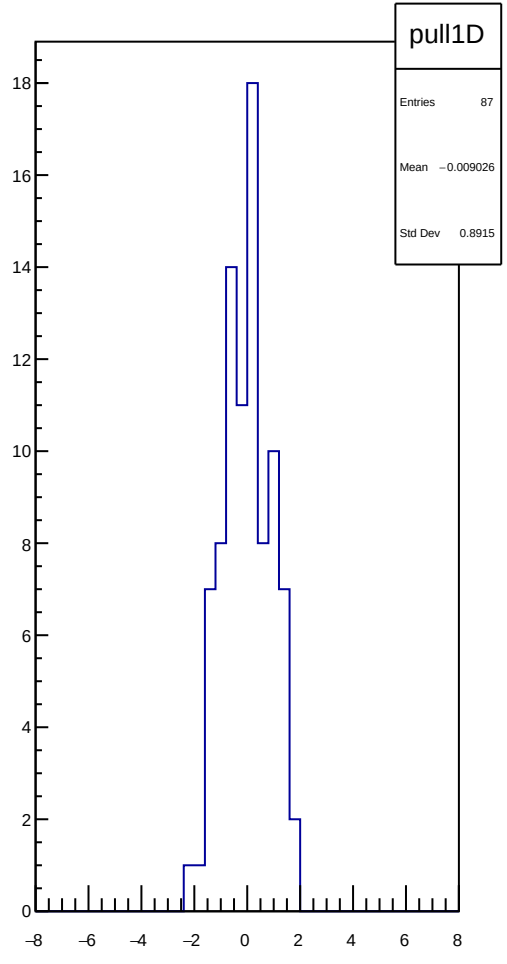

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 7.651e+04 / 86
p0 72.96 ± 0.05622
140
120
100
80
60

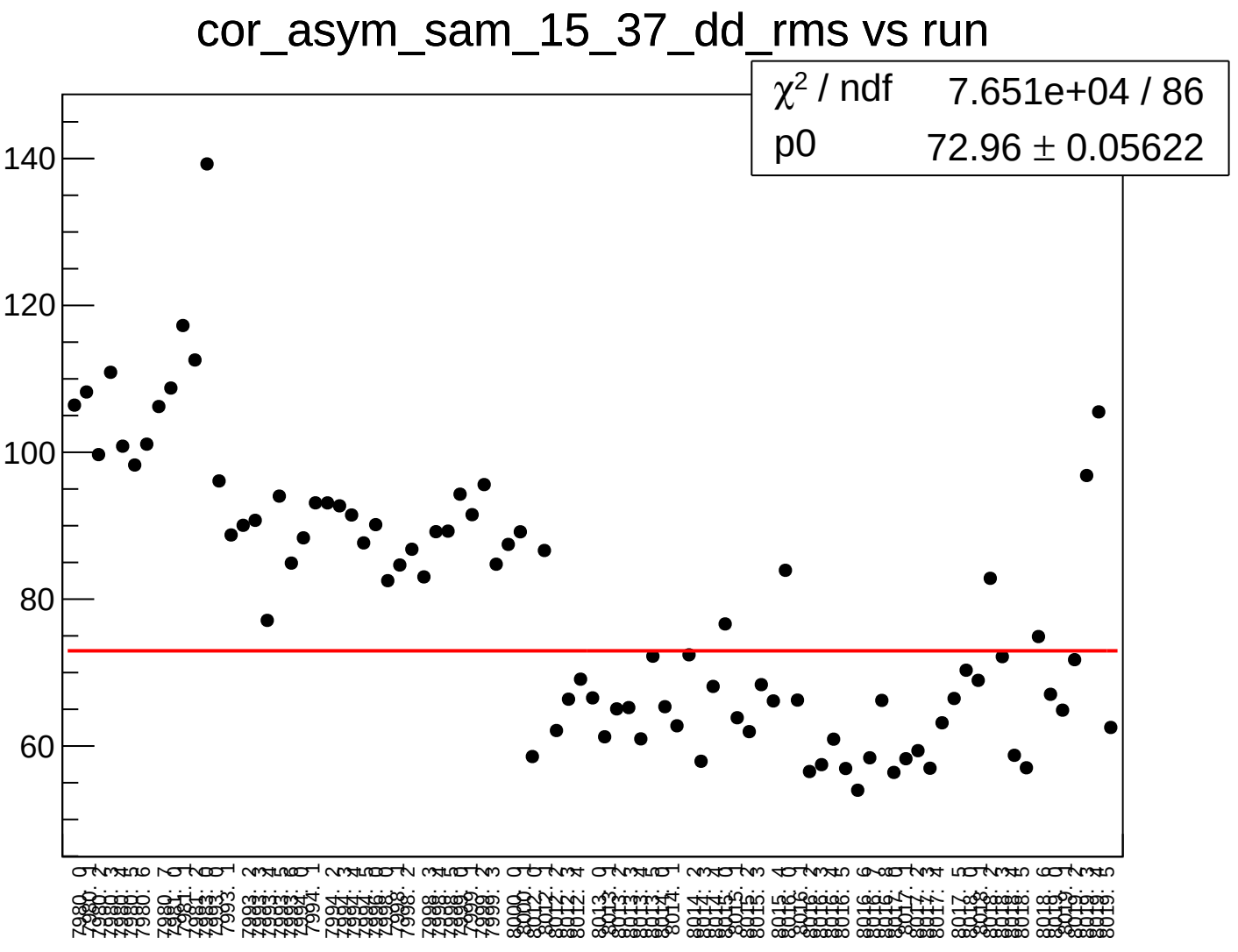

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 110.8 / 86
p0 −1033 ± 762.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −31.35
Std Dev 0
3
2
1
0
−1
−2

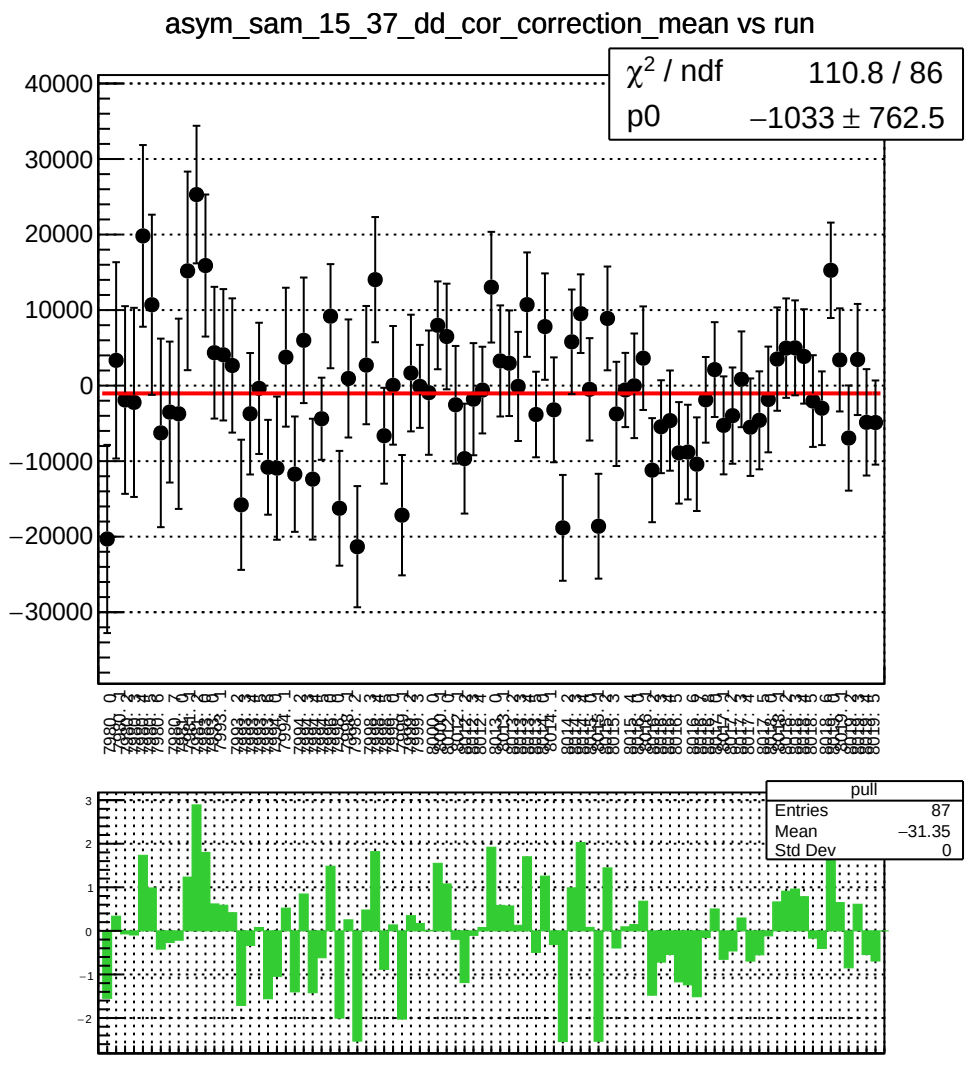

pull1D
Entries 87
Mean 0.01378
Std Dev 1.128
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

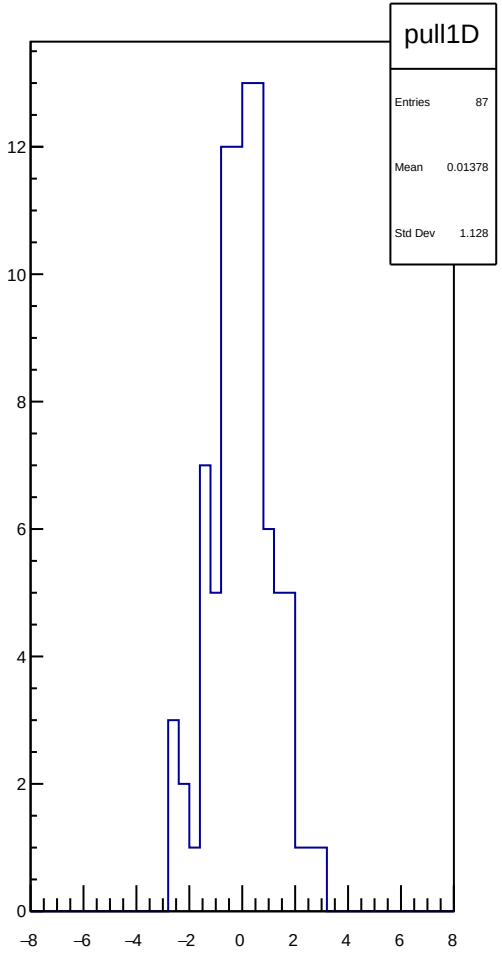

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 5.913e+04 / 86
p0 703.3 ± 0.5392
1300
1200
1100
1000
900
800
700
600

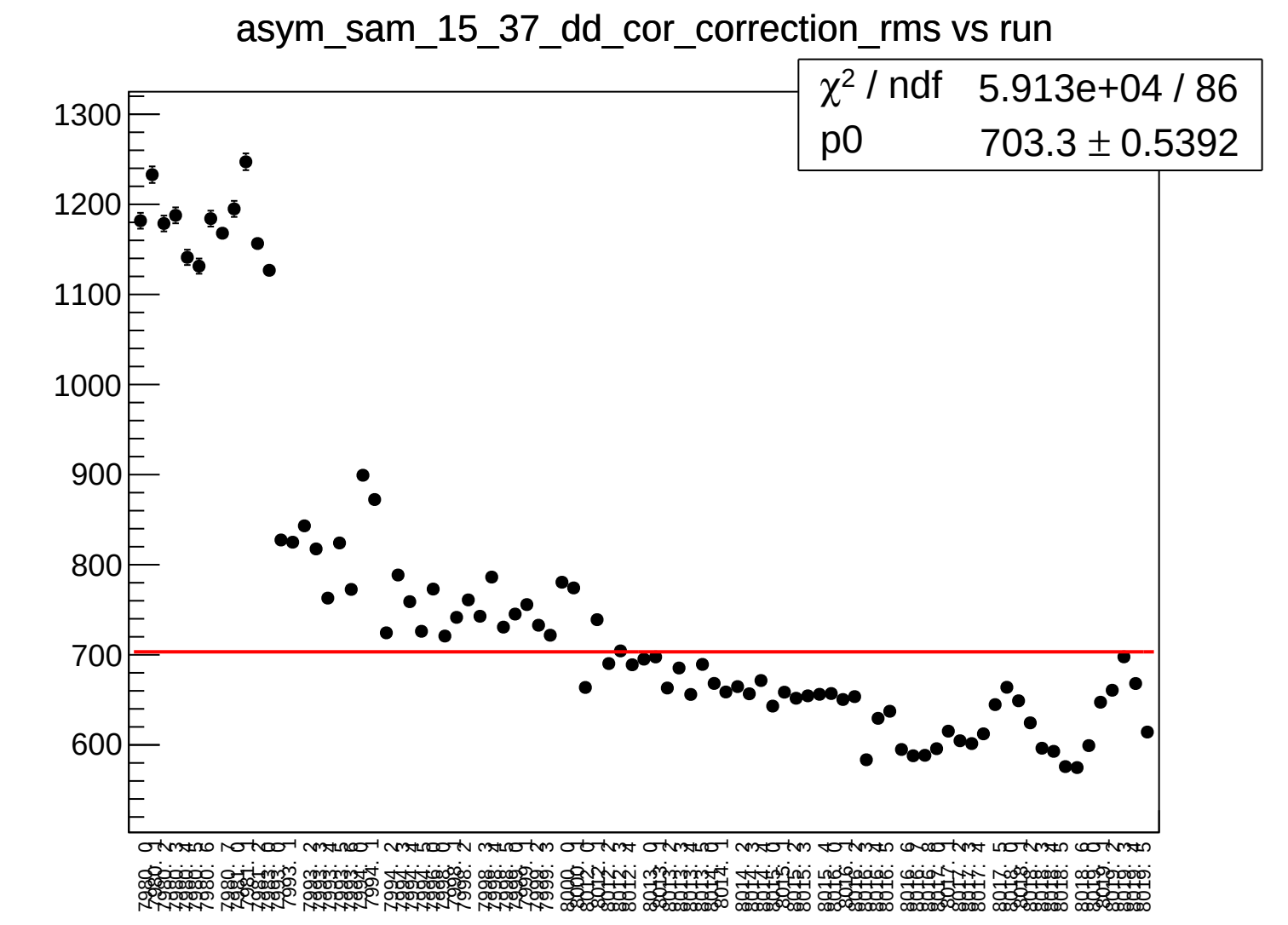

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 69.15 / 86
p0 130.3 ± 79.51
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 164.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

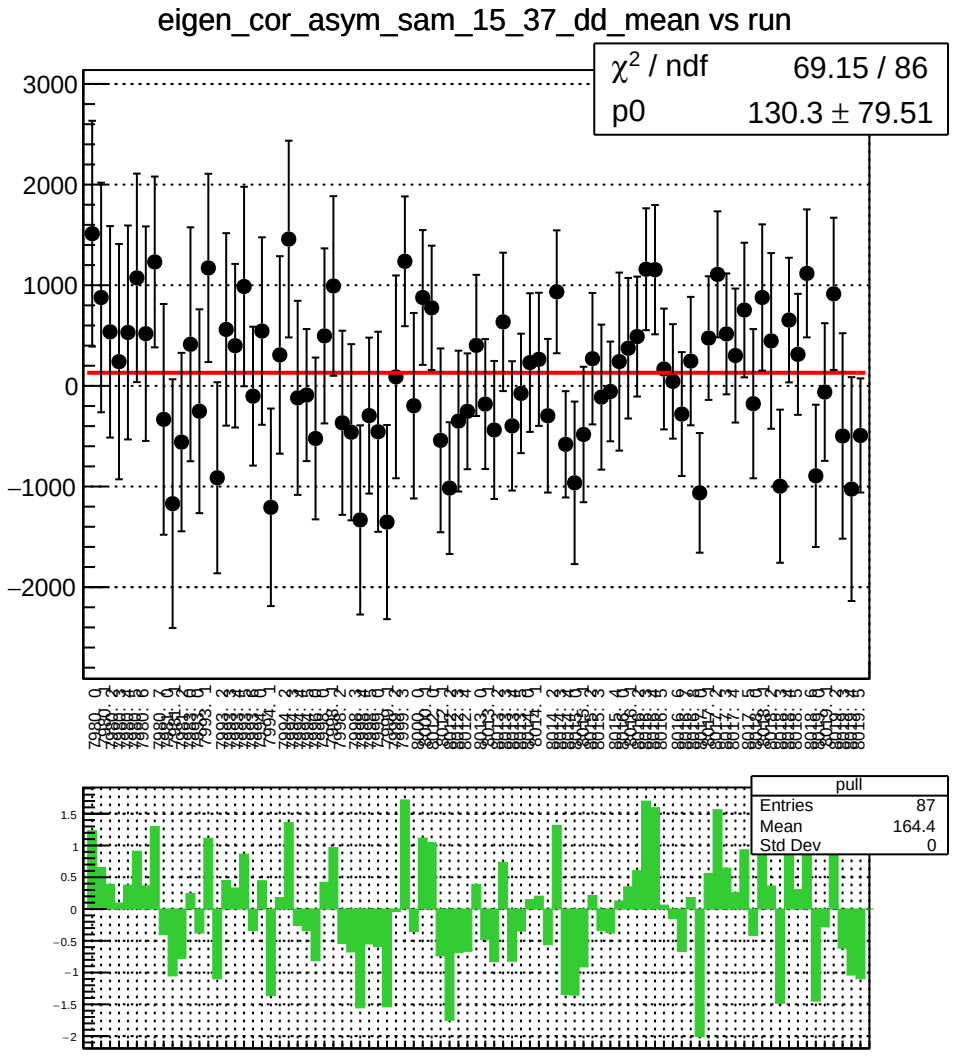

pull1D
Entries 87
Mean −0.009026
Std Dev 0.8915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

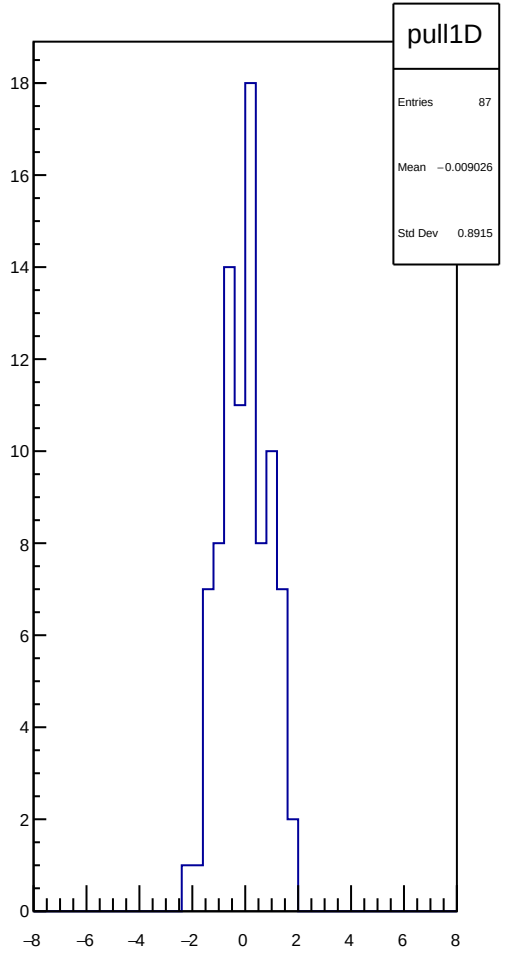

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 7.651e+04 / 86
p0 72.96 ± 0.05622
140
120
100
80
60

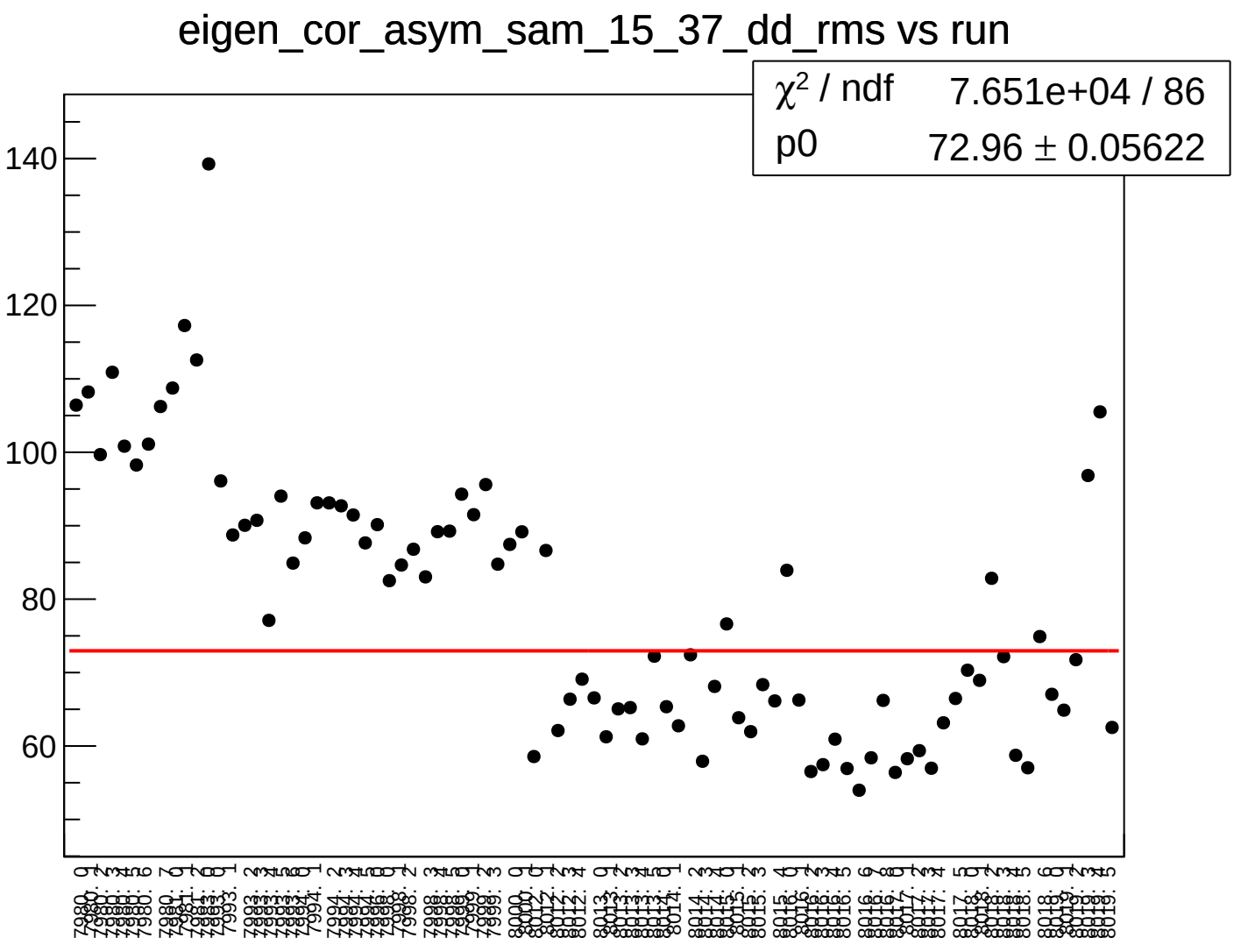

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 110.8 / 86
p0 −1033 ± 762.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −31.35
Std Dev 0
3
2
1
0
−1
−2

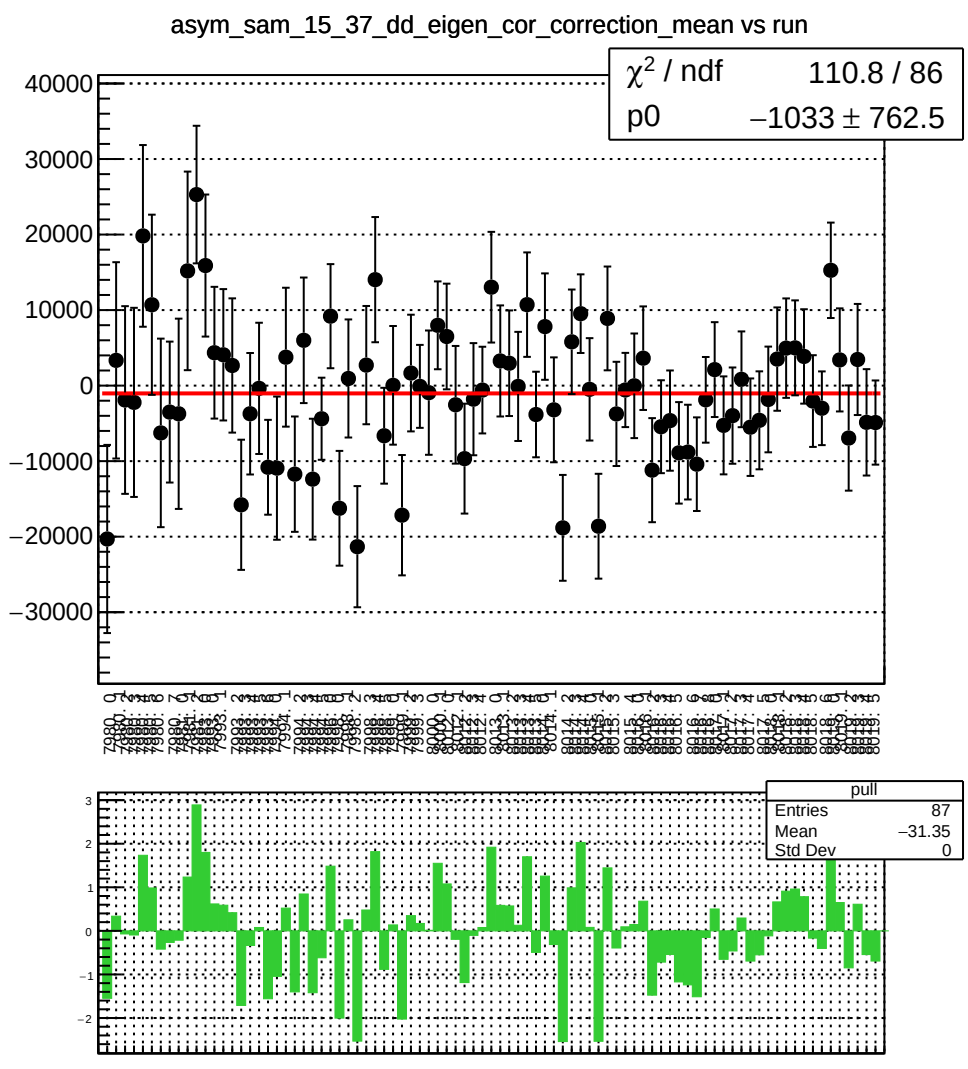

pull1D
Entries 87
Mean 0.01378
Std Dev 1.128
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

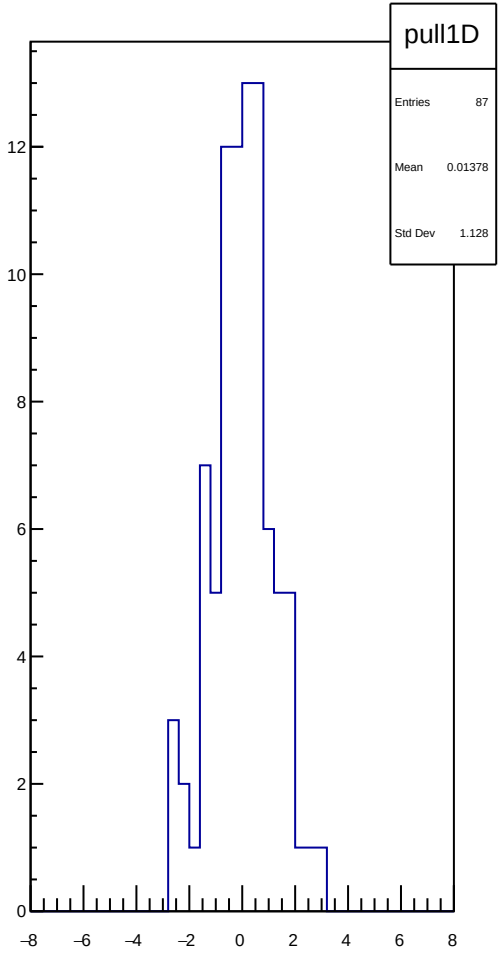

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 5.913e+04 / 86
p0 703.3 ± 0.5392
1300
1200
1100
1000
900
800
700
600

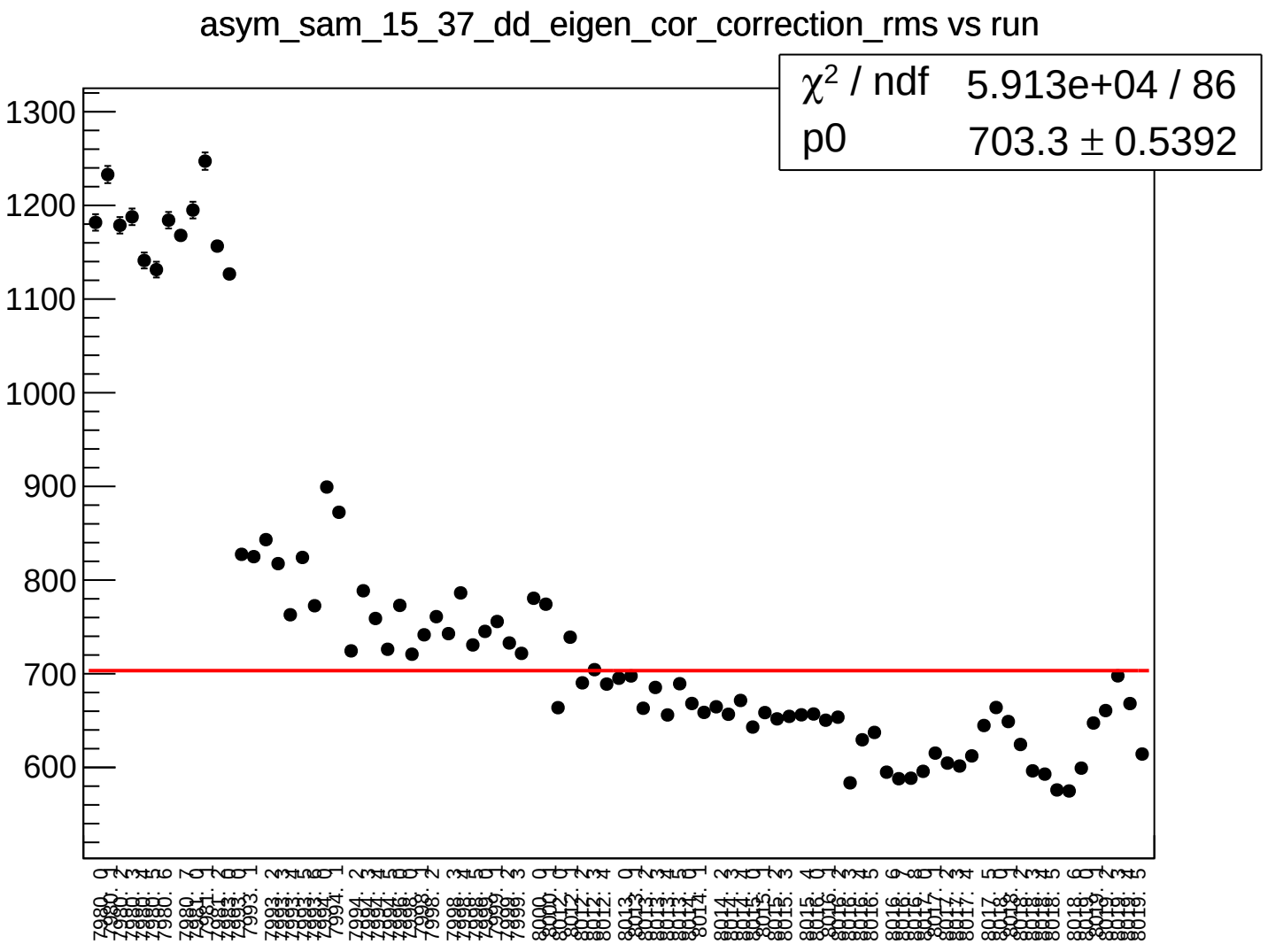

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 69.15 / 86
p0 130.3 ± 79.51
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 164.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

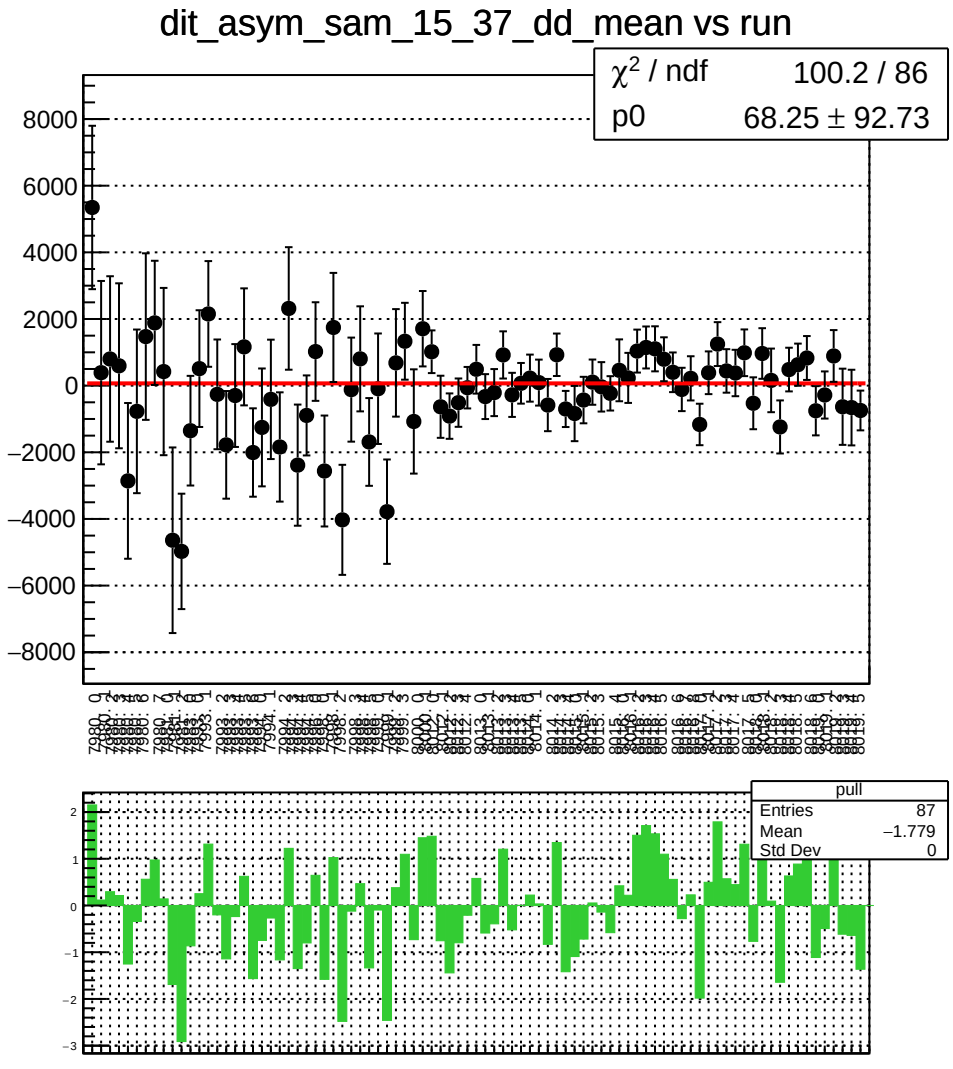

pull1D
Entries 87
Mean −0.009026
Std Dev 0.8915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

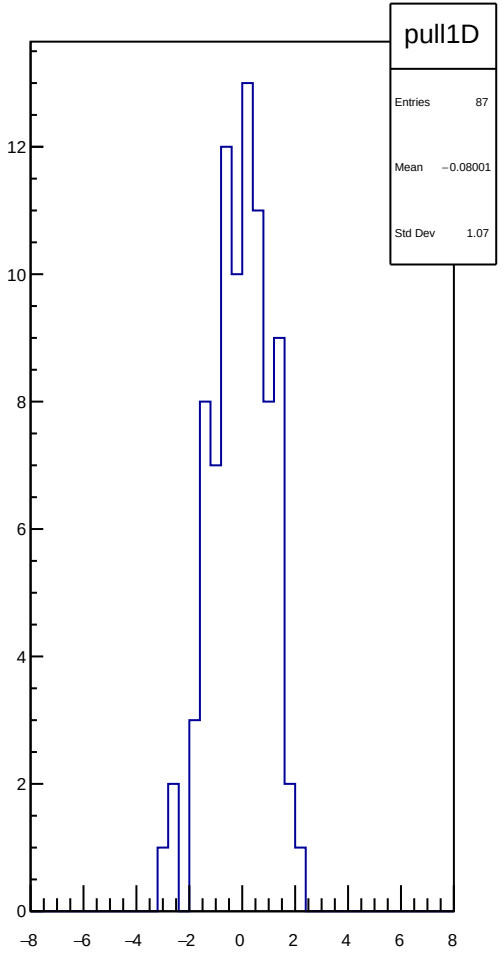

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 7.651e+04 / 86
p0 72.96 ± 0.05622
140
120
100
80
60

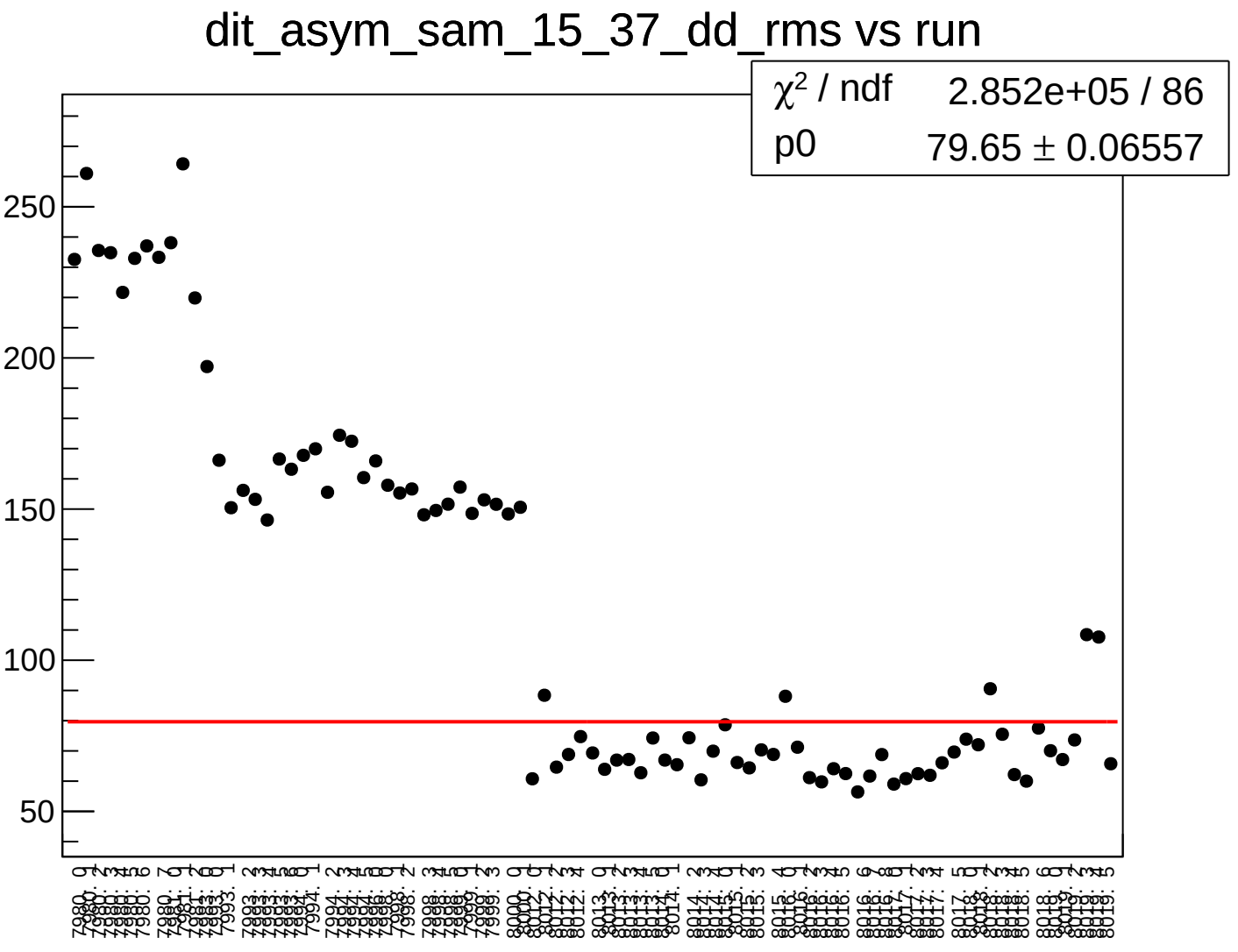

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 110.8 / 86
p0 −1033 ± 762.5
pull
Entries 87
Mean −31.35
Std Dev 0

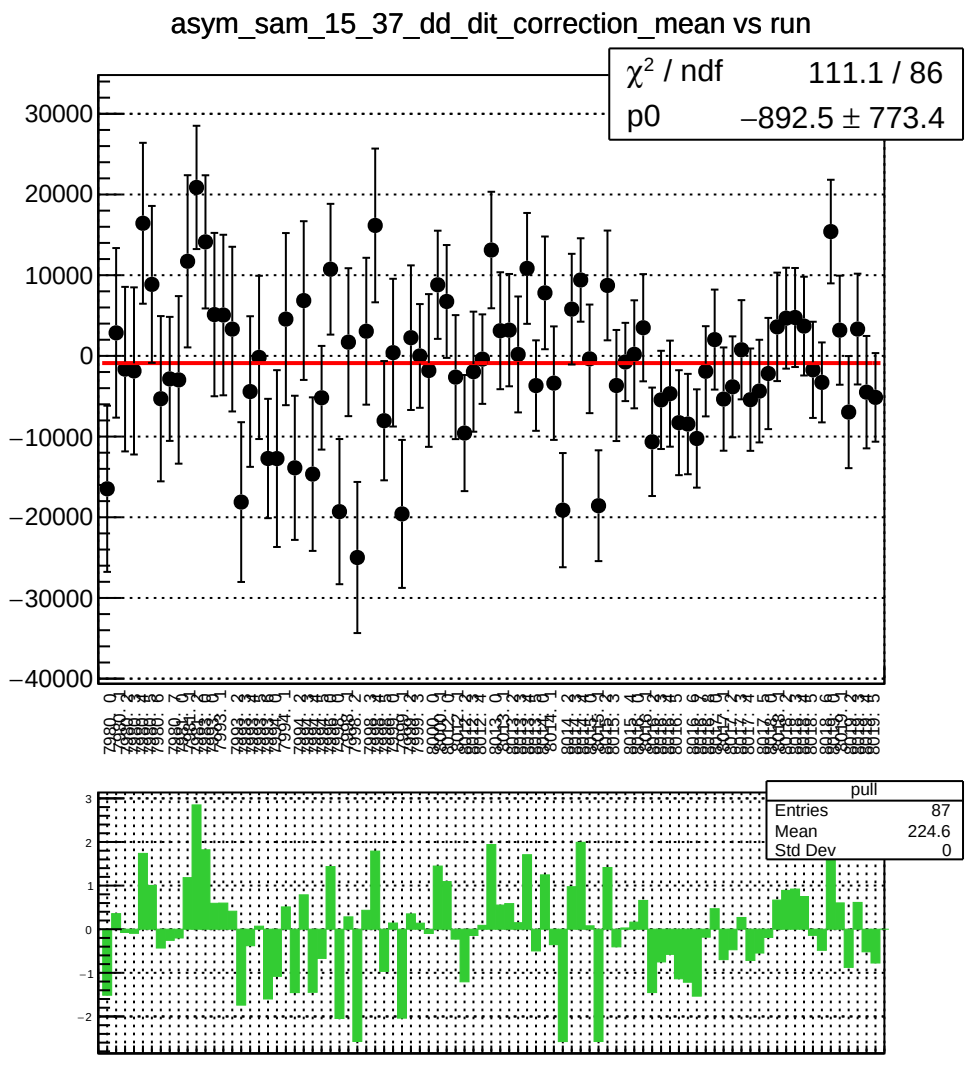

pull1D
Entries 87
Mean 0.01378
Std Dev 1.128

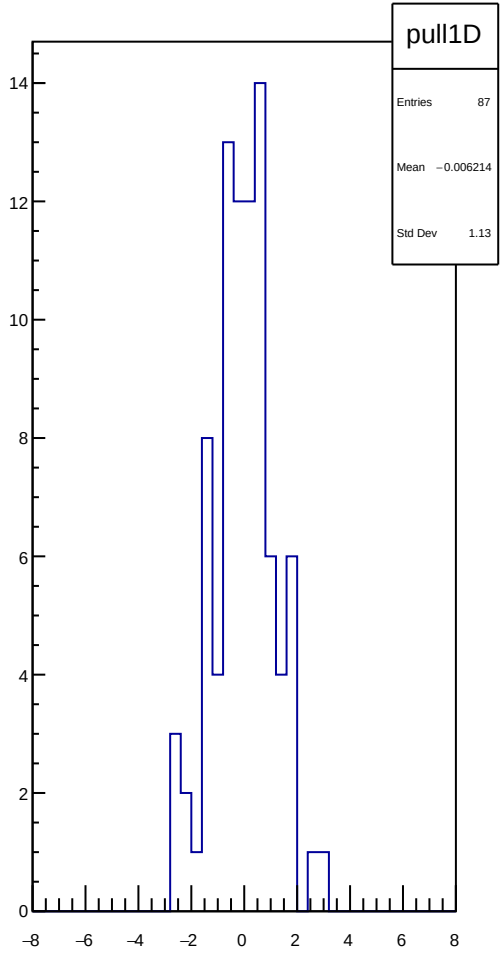

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.913e+04 / 86
p0 703.3 ± 0.5392
1300
1200
1100
1000
900
800
700
600

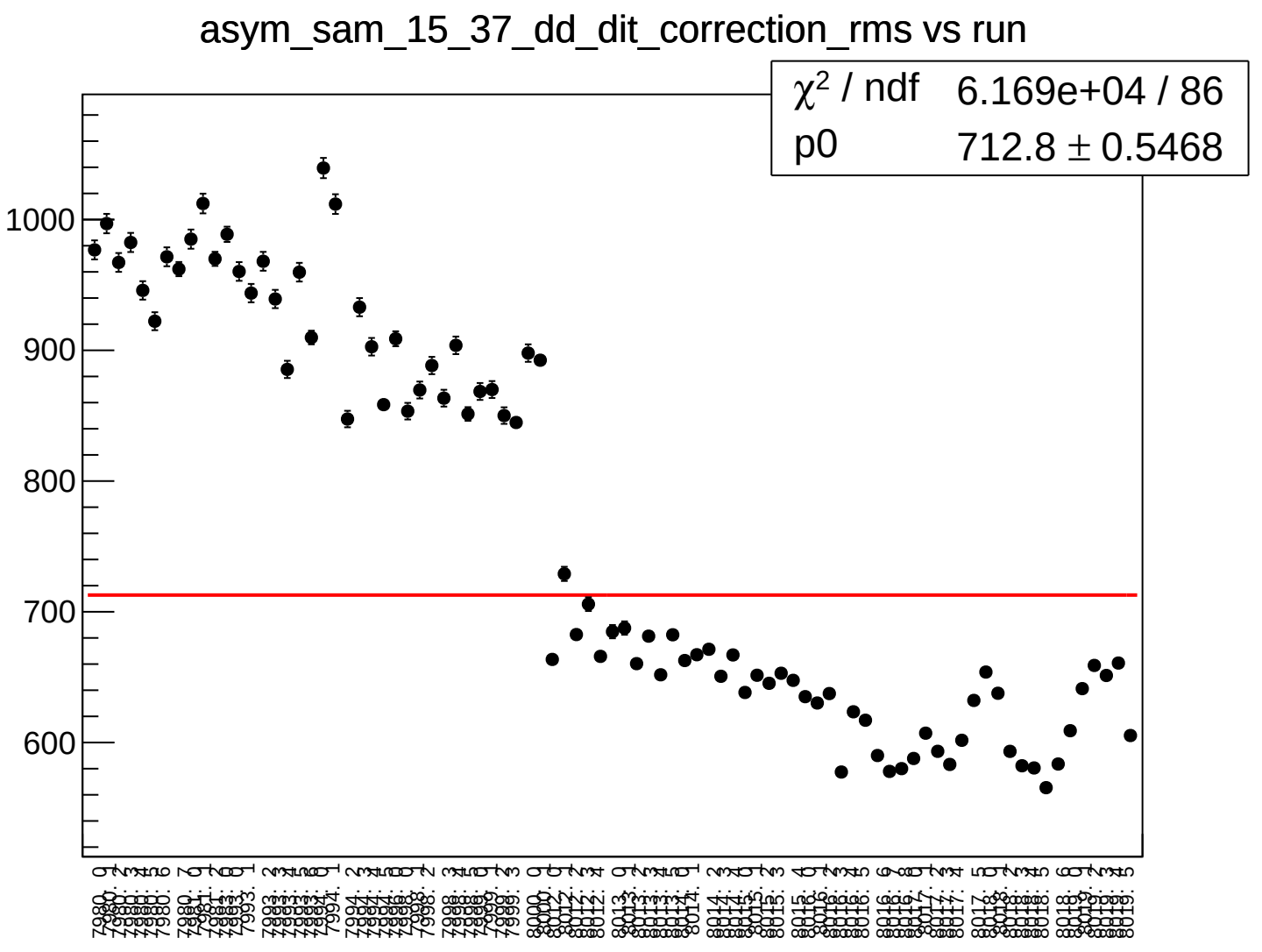

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 100.2 / 86
p0 68.25 ± 92.73
pull
Entries 87
Mean −1.779
Std Dev 0

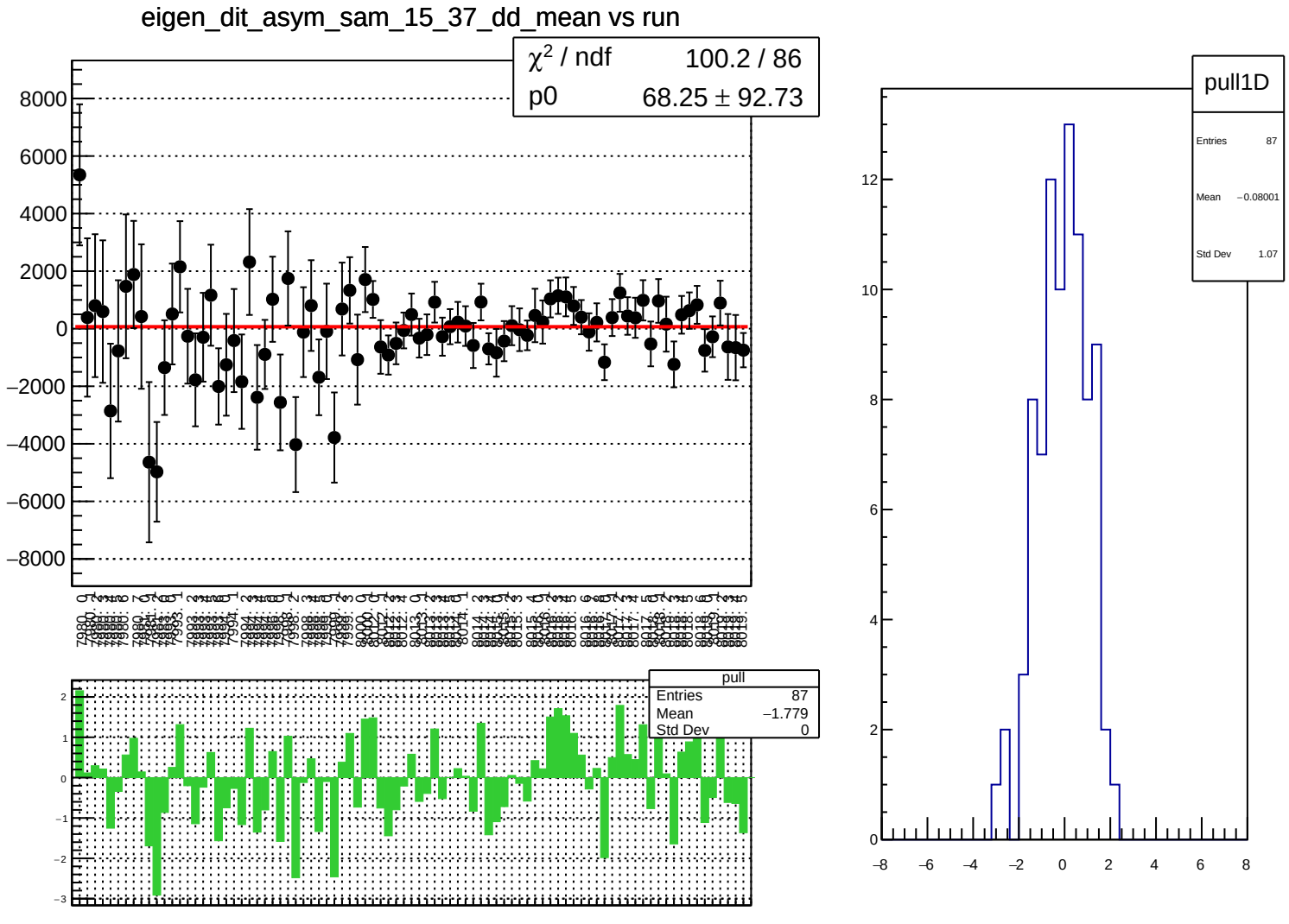

pull1D
Entries 87
Mean −0.08001
Std Dev 1.07

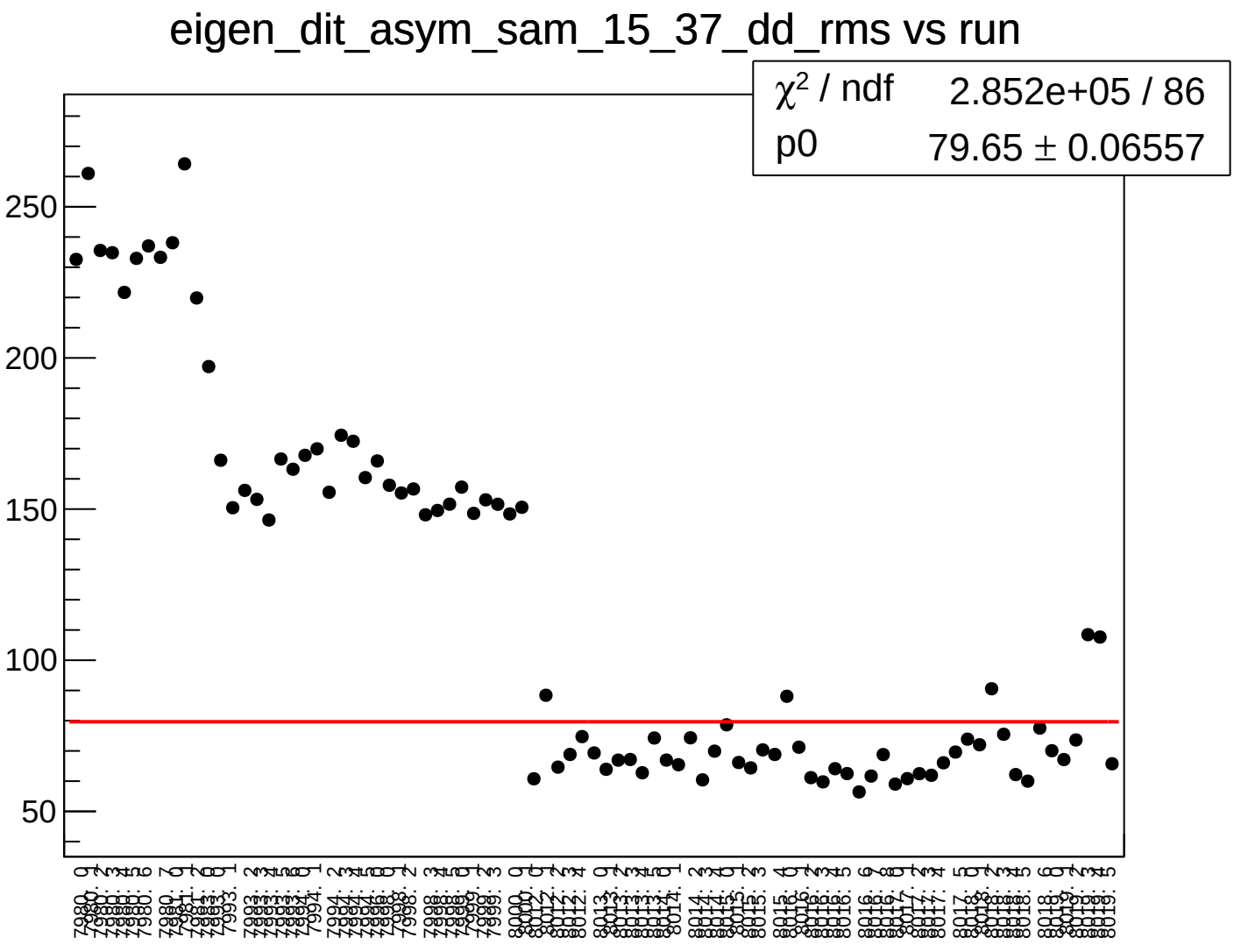

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.852e+05 / 86
p0 79.65 ± 0.06557
250
200
150
100
50

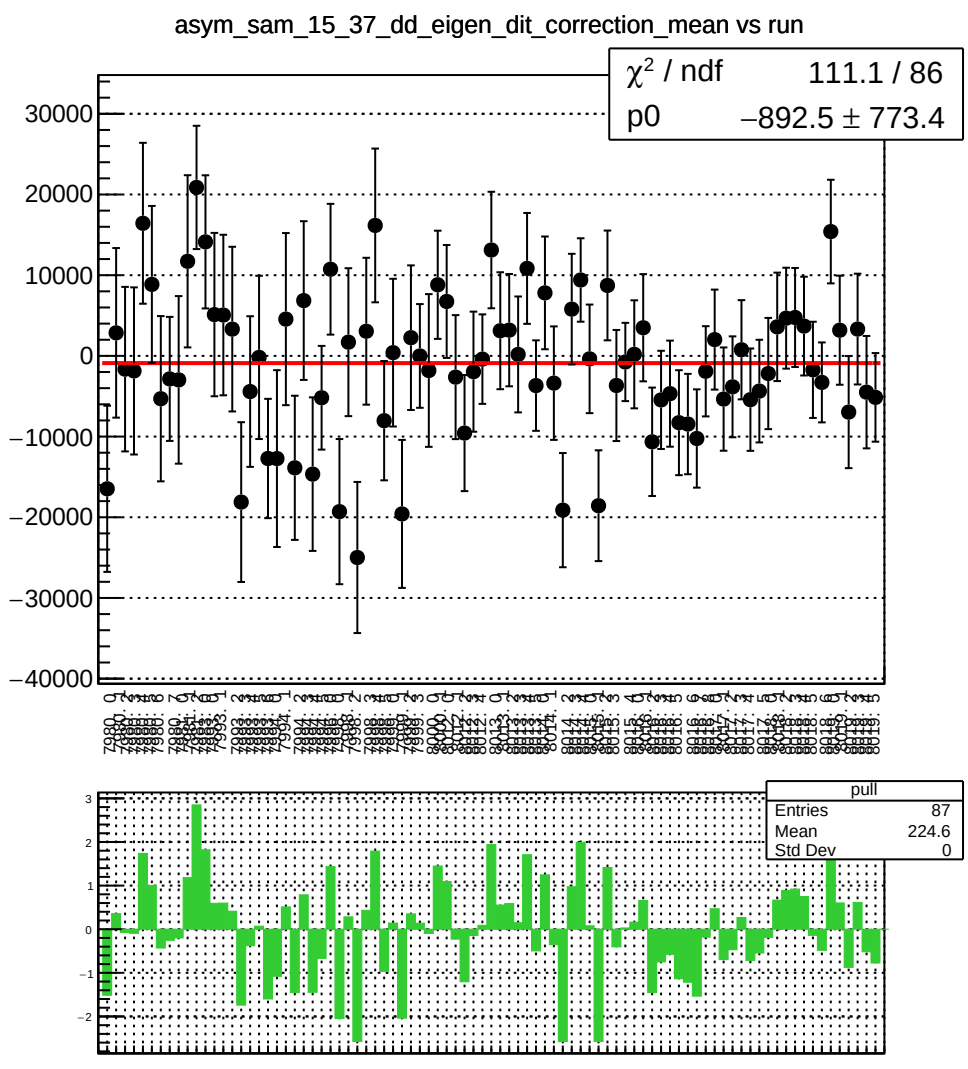

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 111.1 / 86
p0 −892.5 ± 773.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean 224.6
Std Dev 0
3
2
1
0
−1
−2

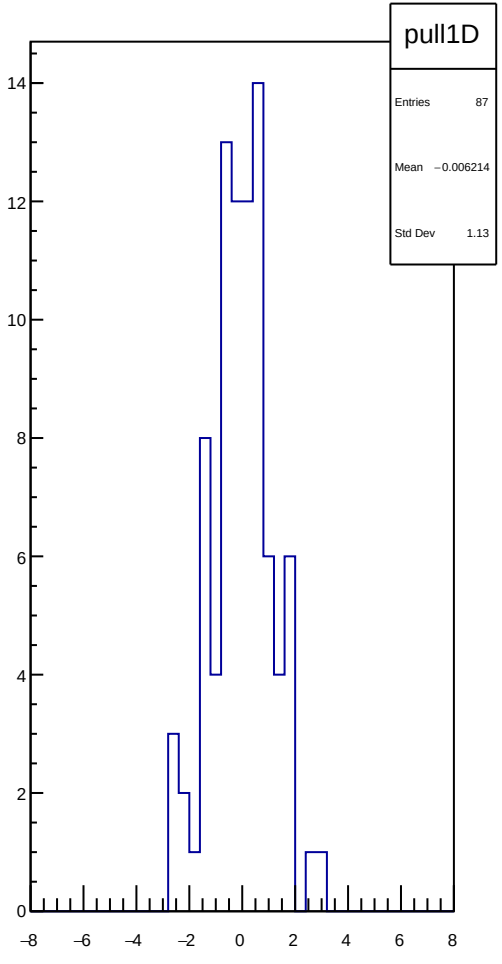

pull1D
Entries 87
Mean −0.006214
Std Dev 1.13
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

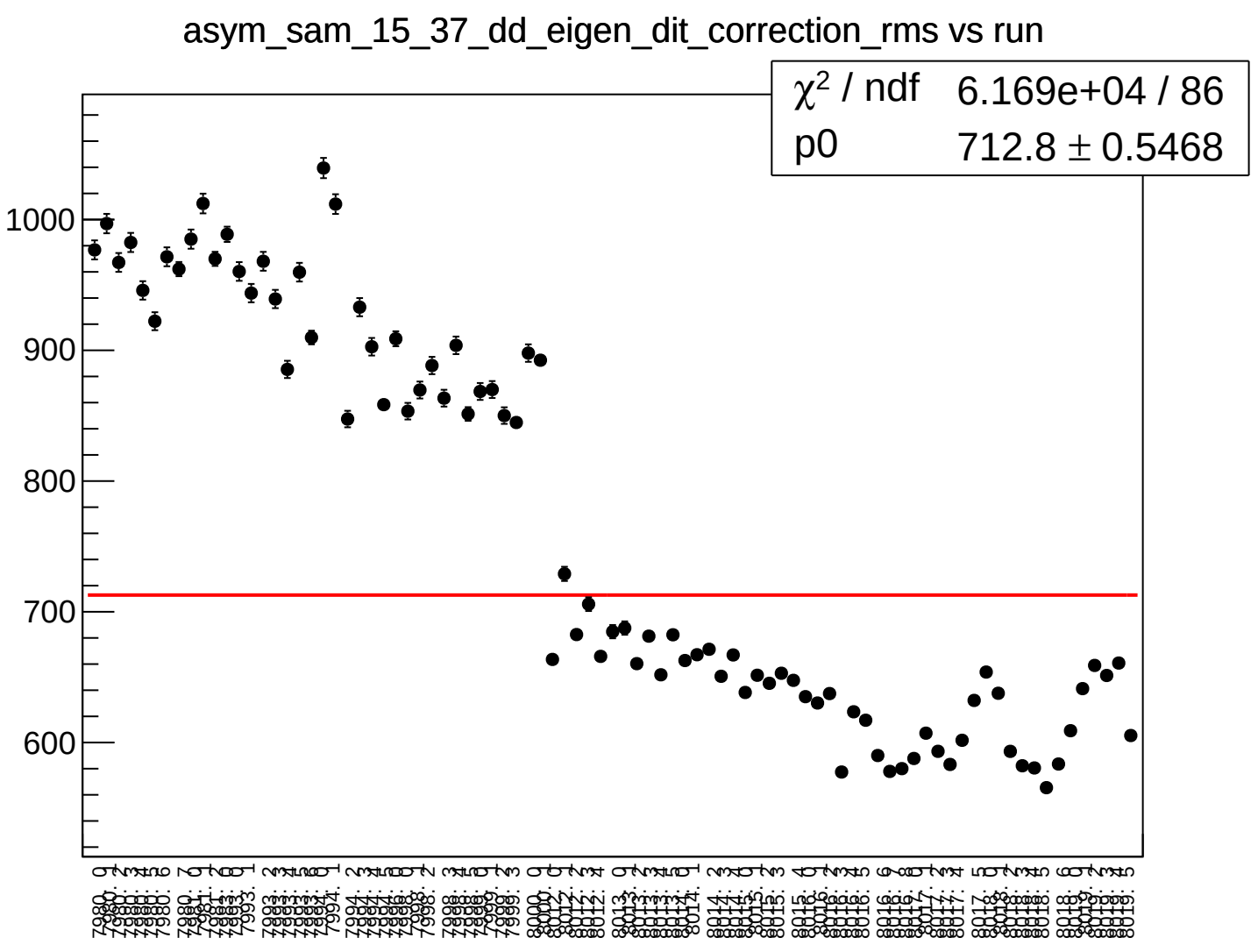

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 6.169e+04 / 86
p0 712.8 ± 0.5468
1000
900
800
700
600

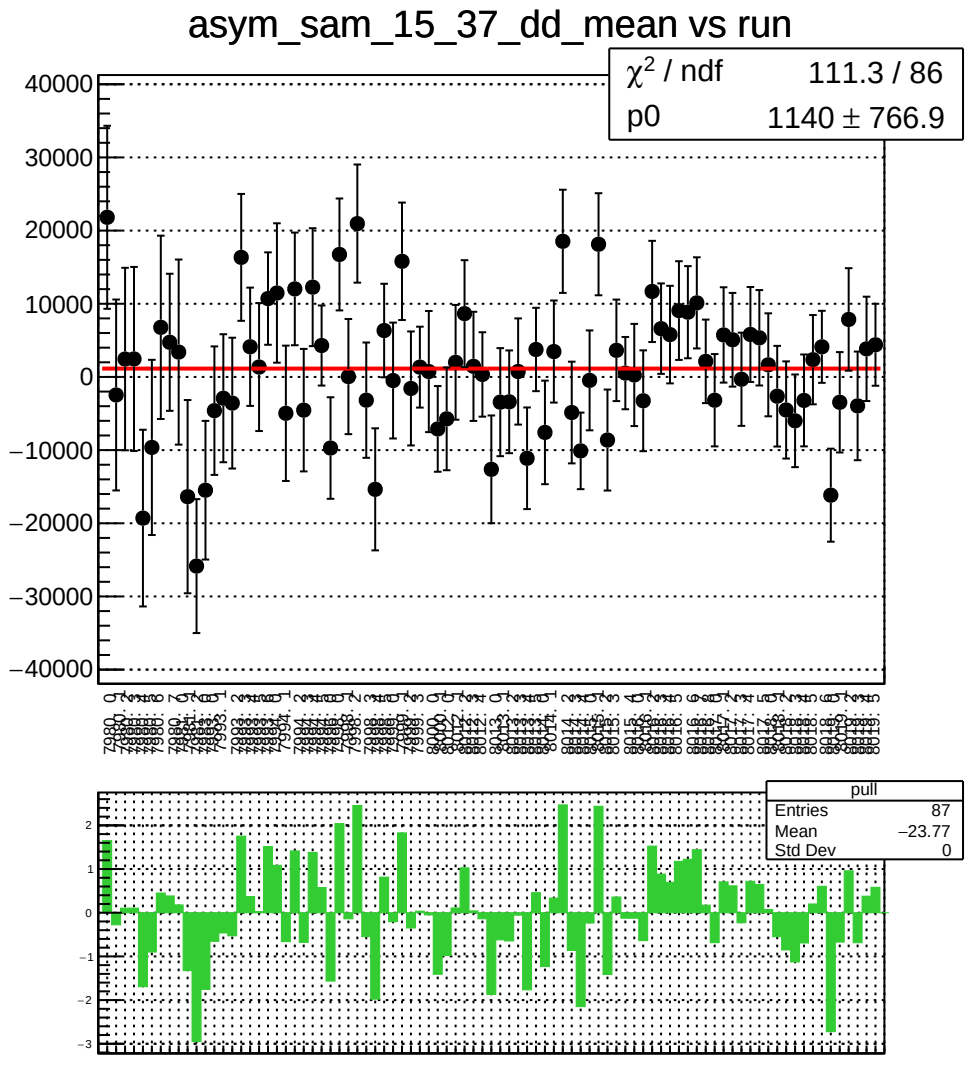

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 100.2 / 86
p0 68.25 ± 92.73
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 87
Mean −1.779
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.08001
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

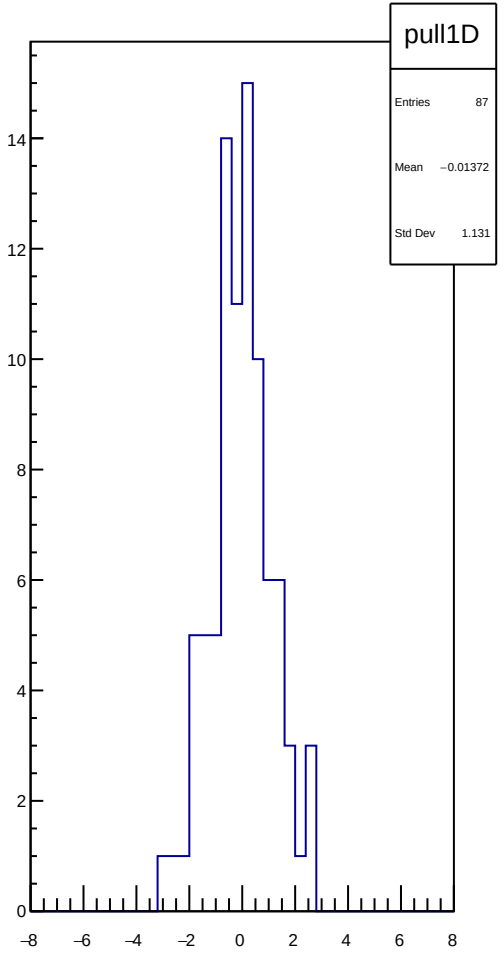

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.852e+05 / 86
p0 79.65 ± 0.06557
250
200
150
100
50

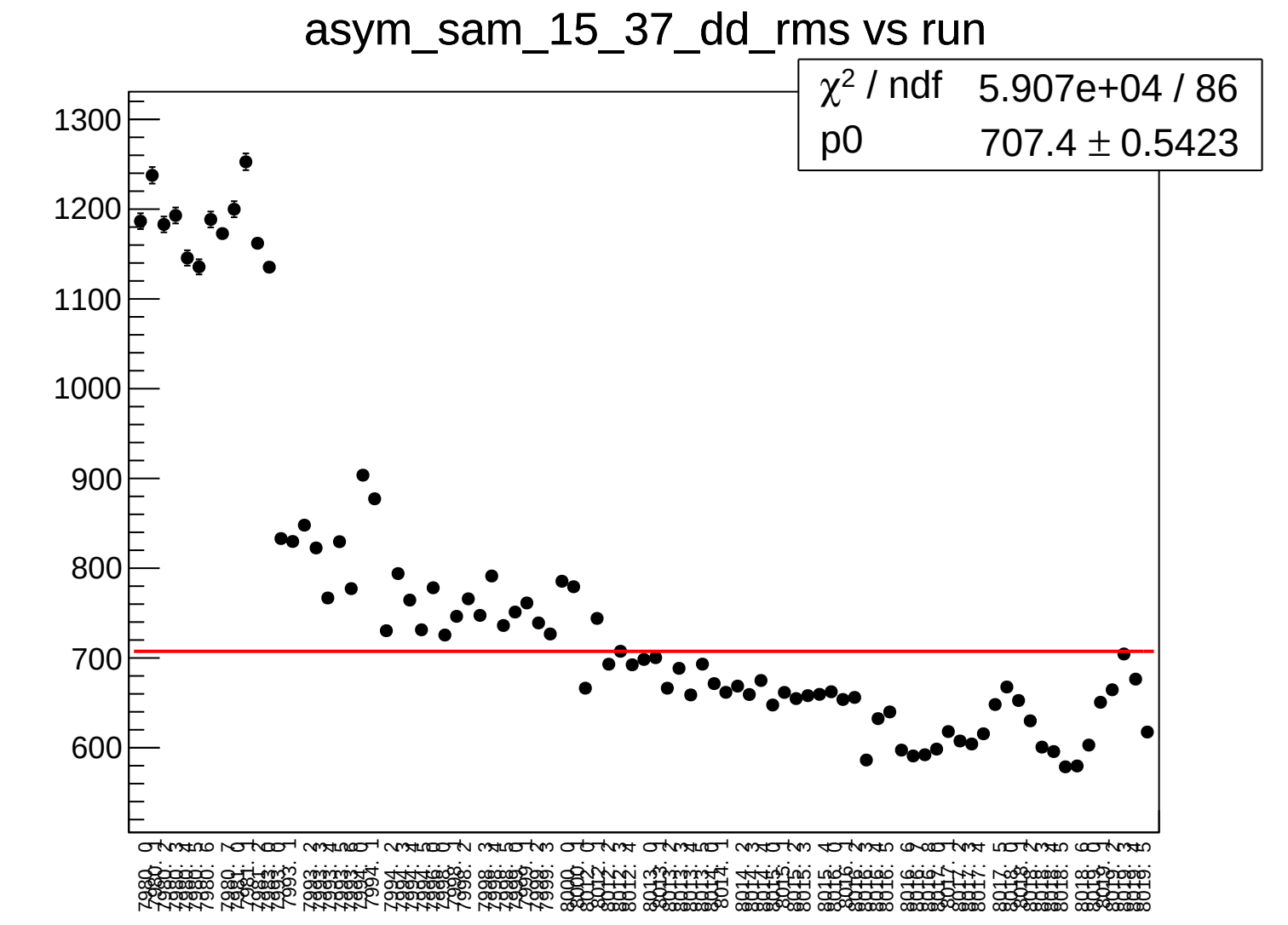

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 111.1 / 86
p0 −892.5 ± 773.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean 224.6
Std Dev 0
3
2
1
0
−1
−2

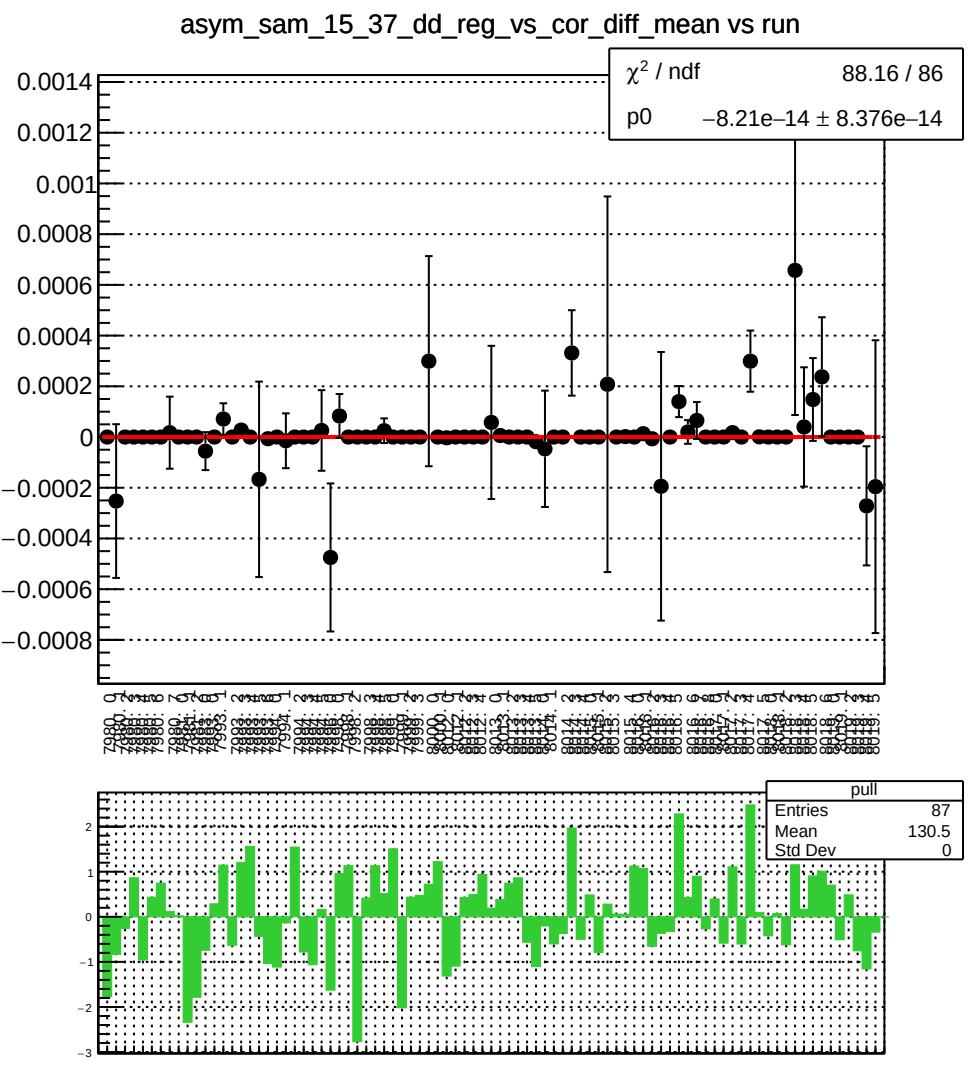

pull1D
Entries 87
Mean −0.006214
Std Dev 1.13
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

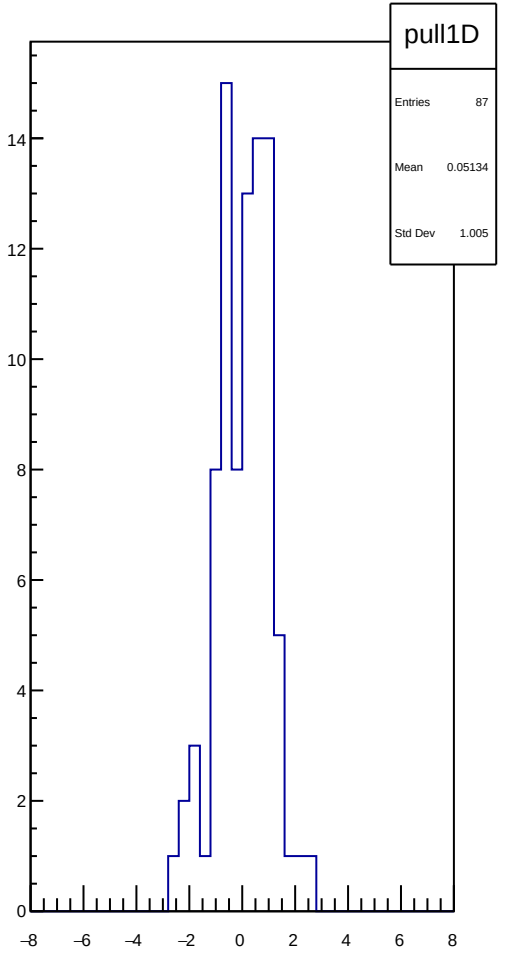

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.169e+04 / 86
p0 712.8 ± 0.5468
1000
900
800
700
600

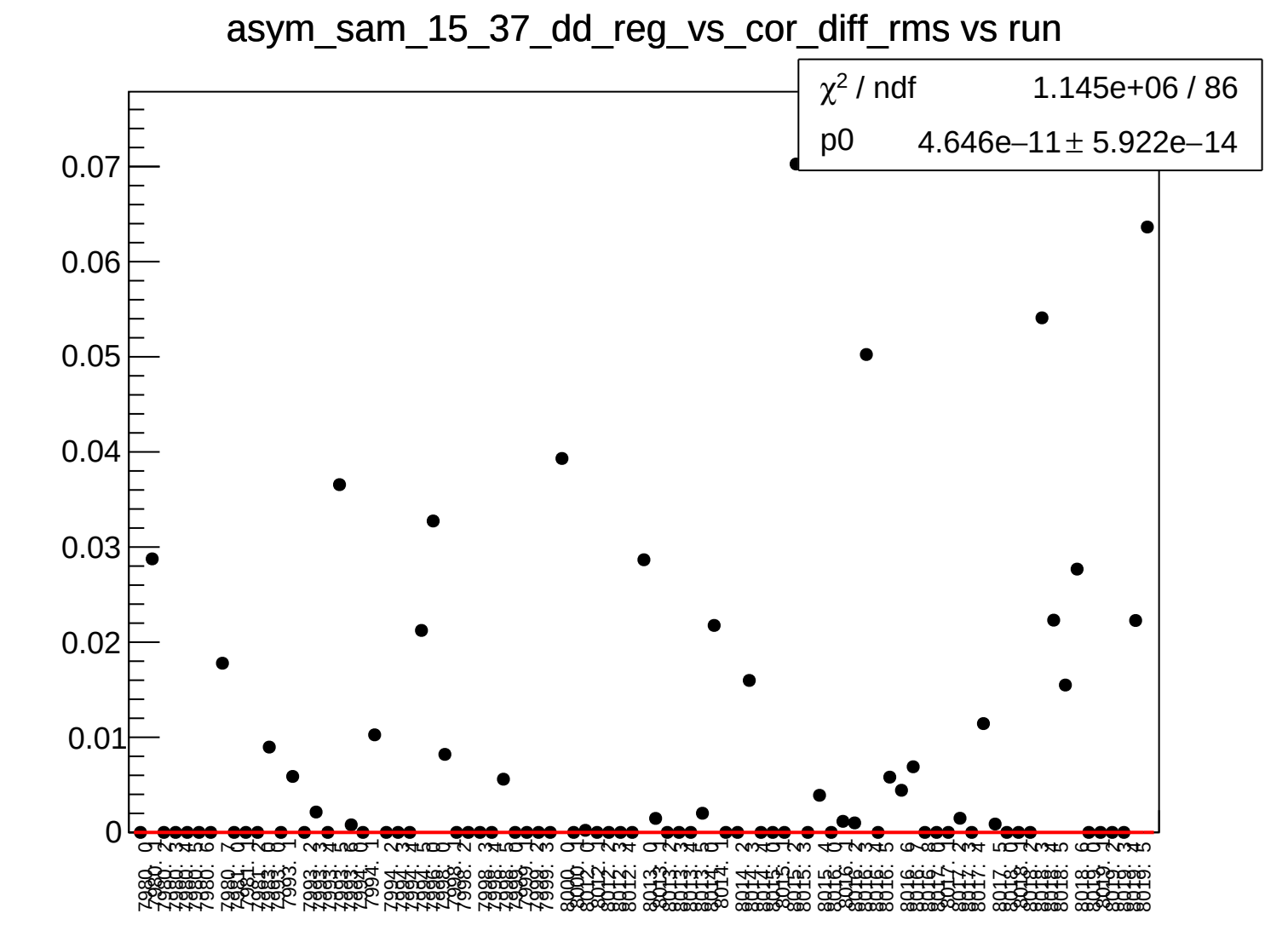

asym_sam_15_37_dd_mean vs run
χ² / ndf 111.3 / 86
p0 1140 ± 766.9
pull
Entries 87
Mean −23.77
Std Dev 0

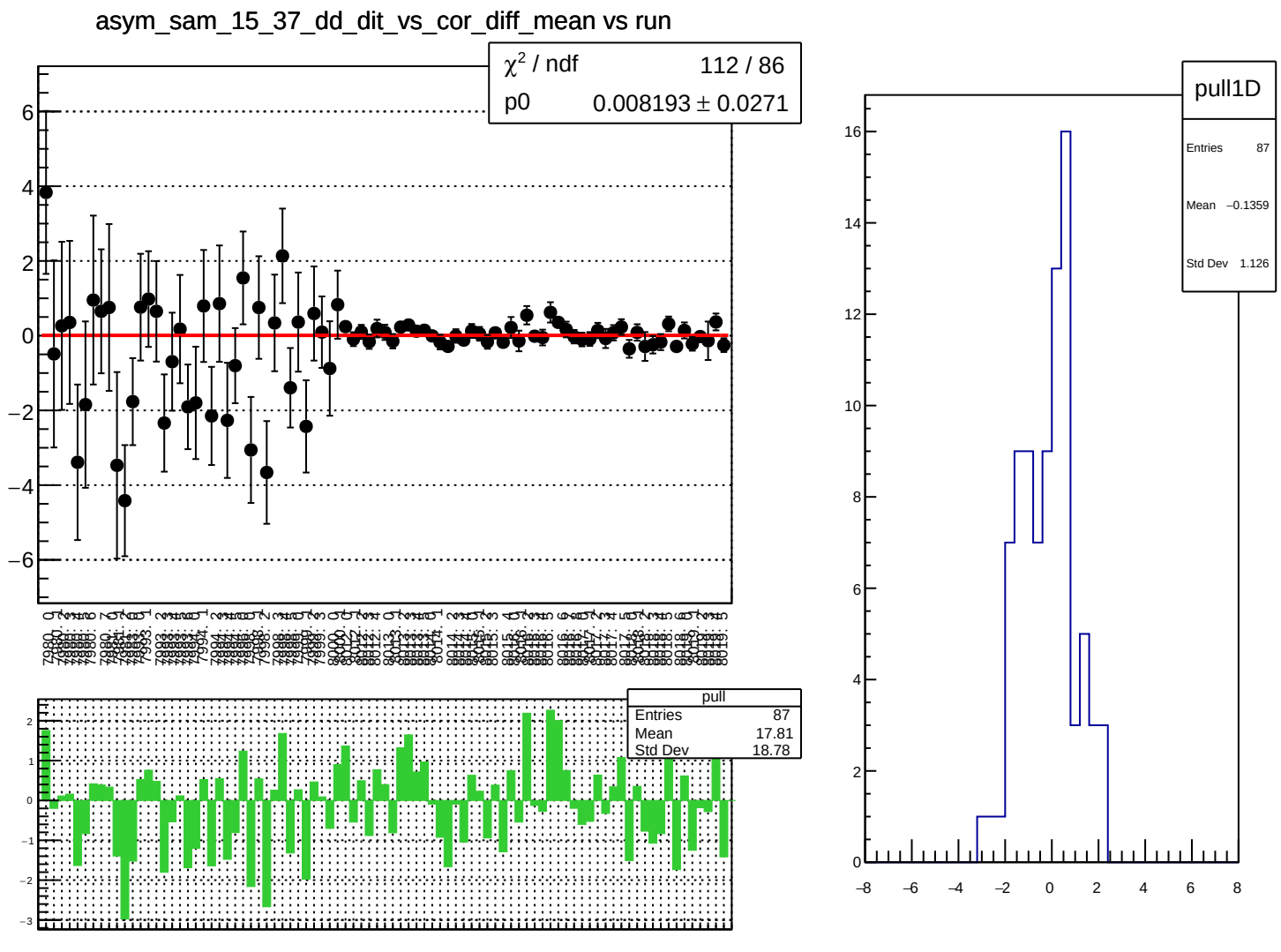

pull1D
Entries 87
Mean −0.01372
Std Dev 1.131

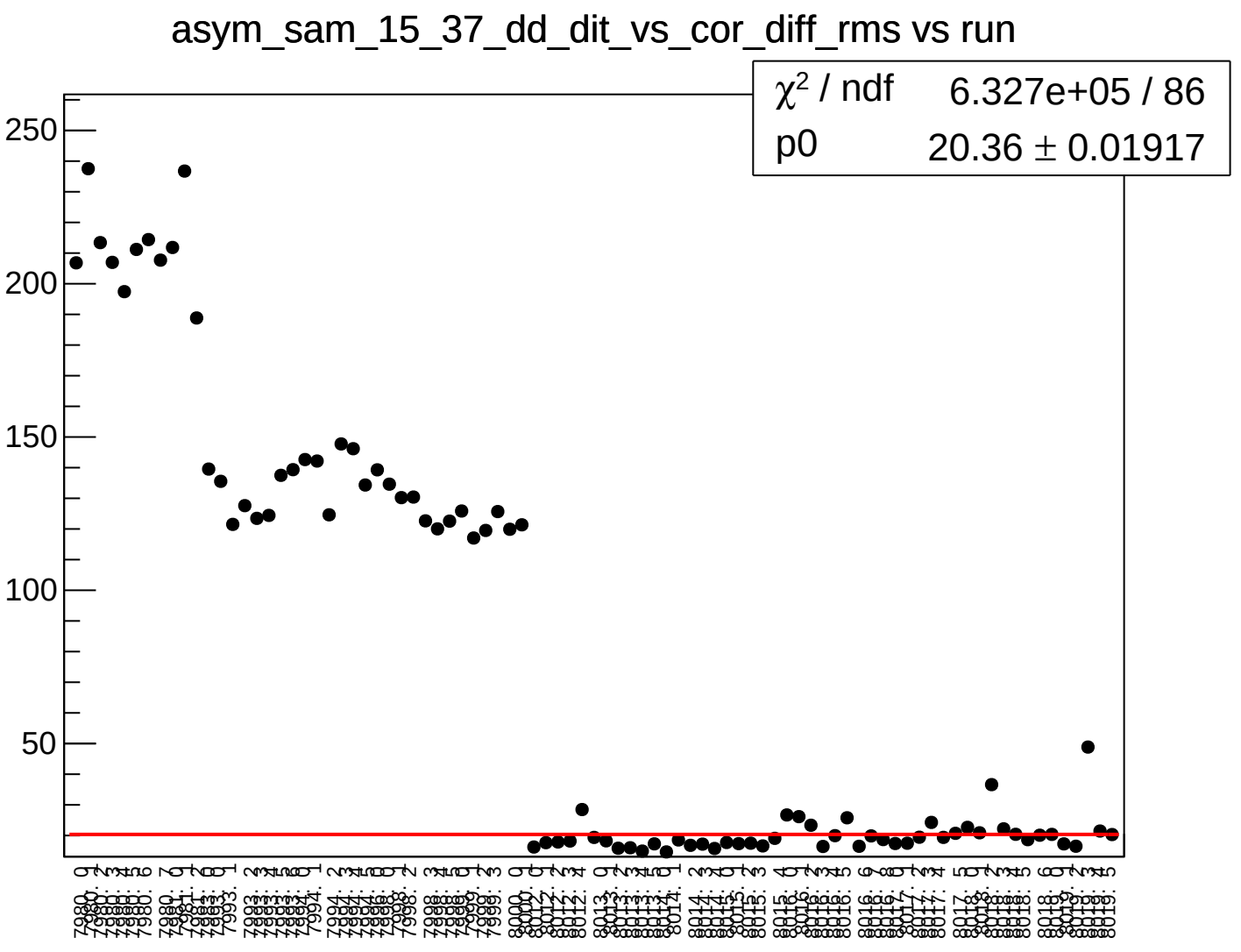

asym_sam_15_37_dd_rms vs run
χ² / ndf 5.907e+04 / 86
p0 707.4 ± 0.5423
1300
1200
1100
1000
900
800
700
600

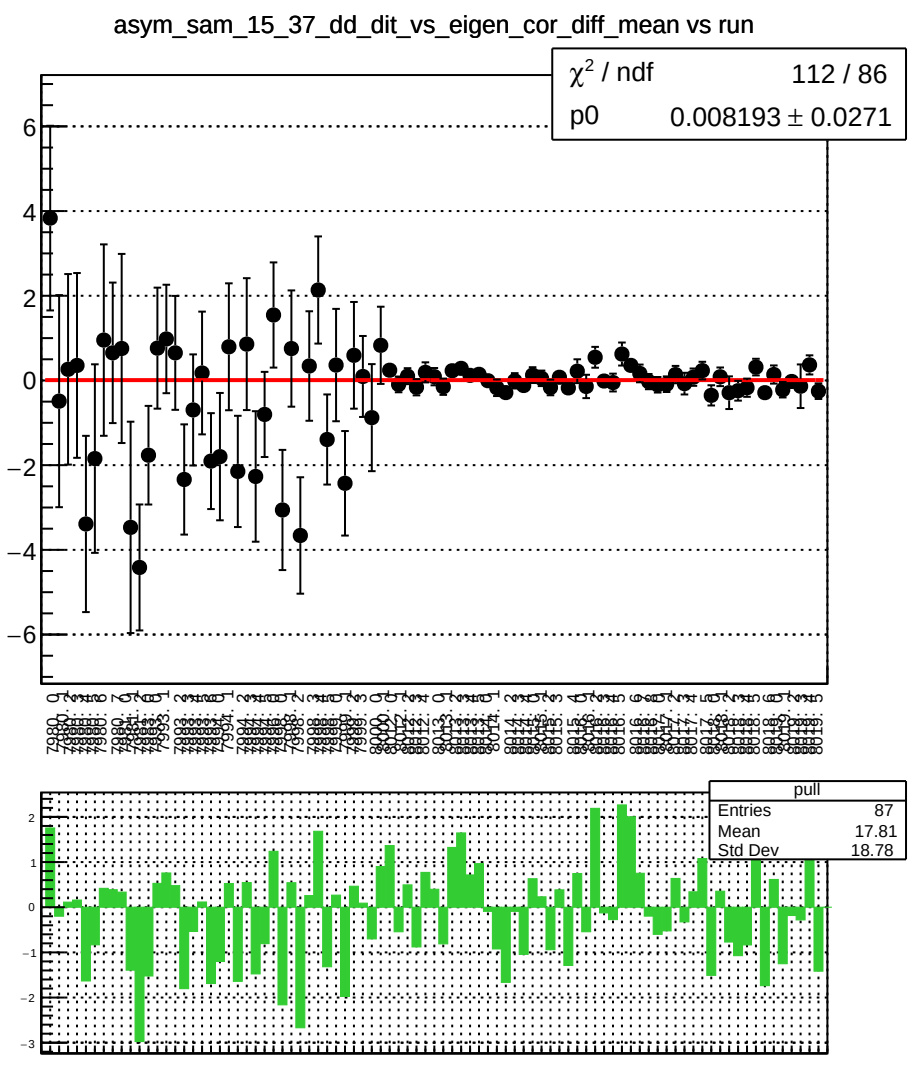

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.16 / 86
p0 −8.21e−14 ± 8.376e−14
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 87
Mean 130.5
Std Dev 0
2
1
0
−1
−2
−3

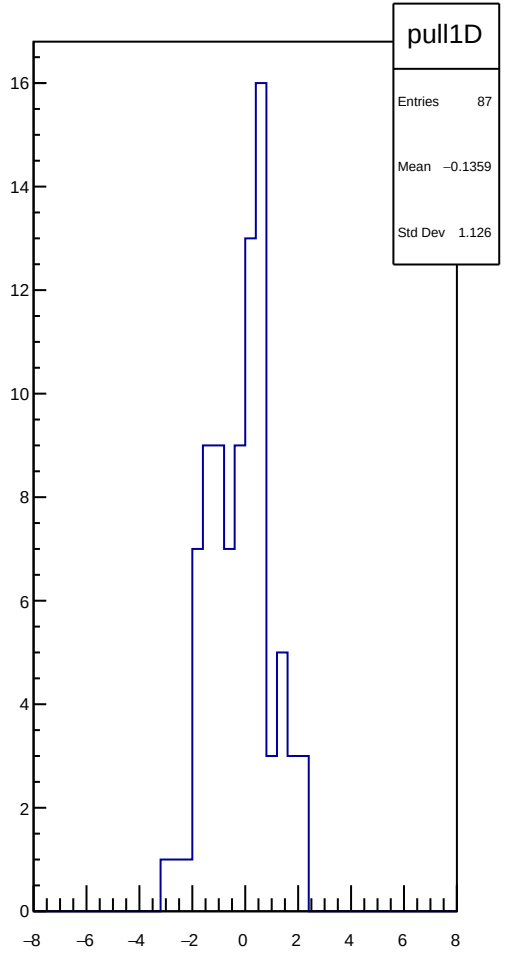

pull1D
Entries 87
Mean 0.05134
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

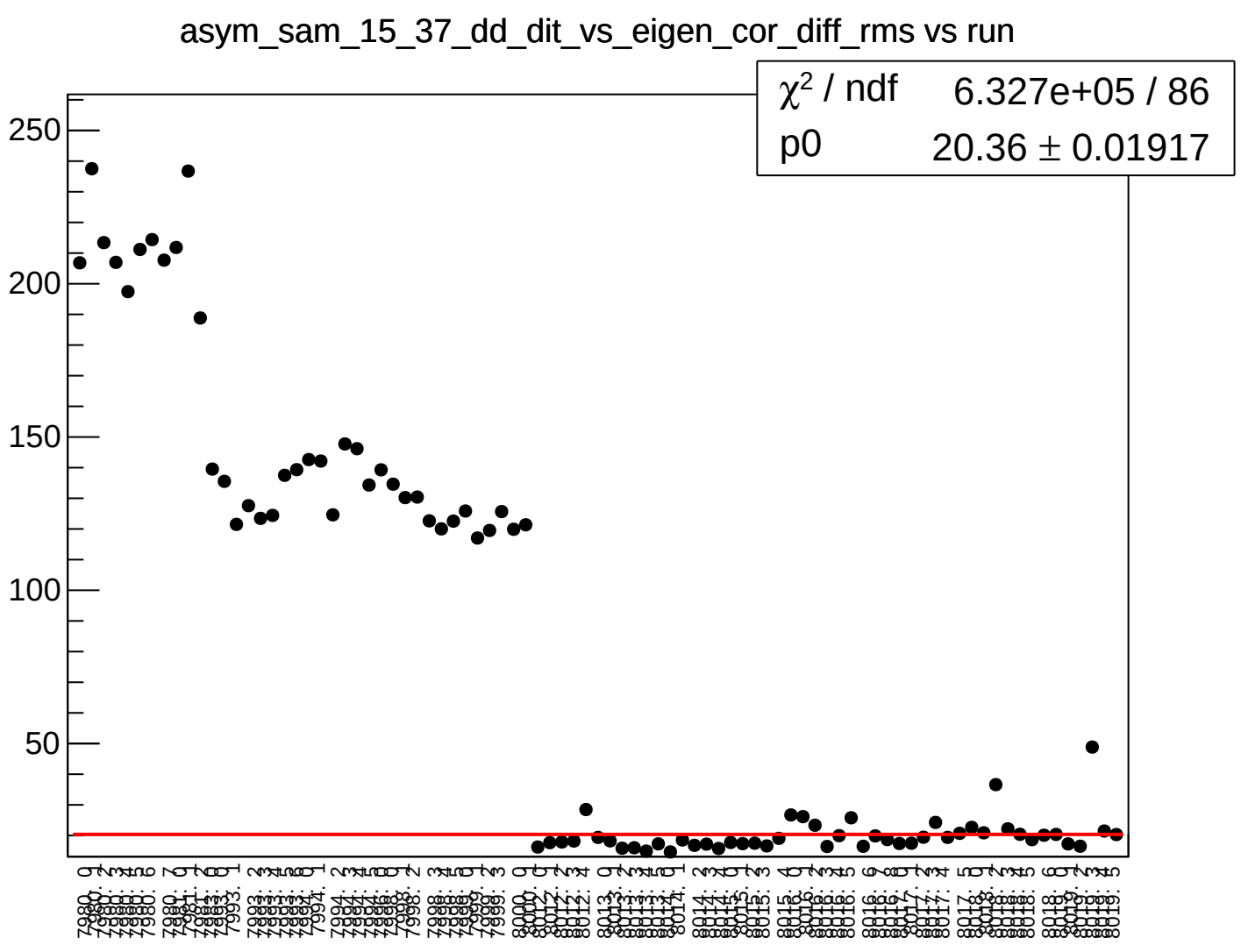

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 86
p0 4.646e−11 ± 5.922e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

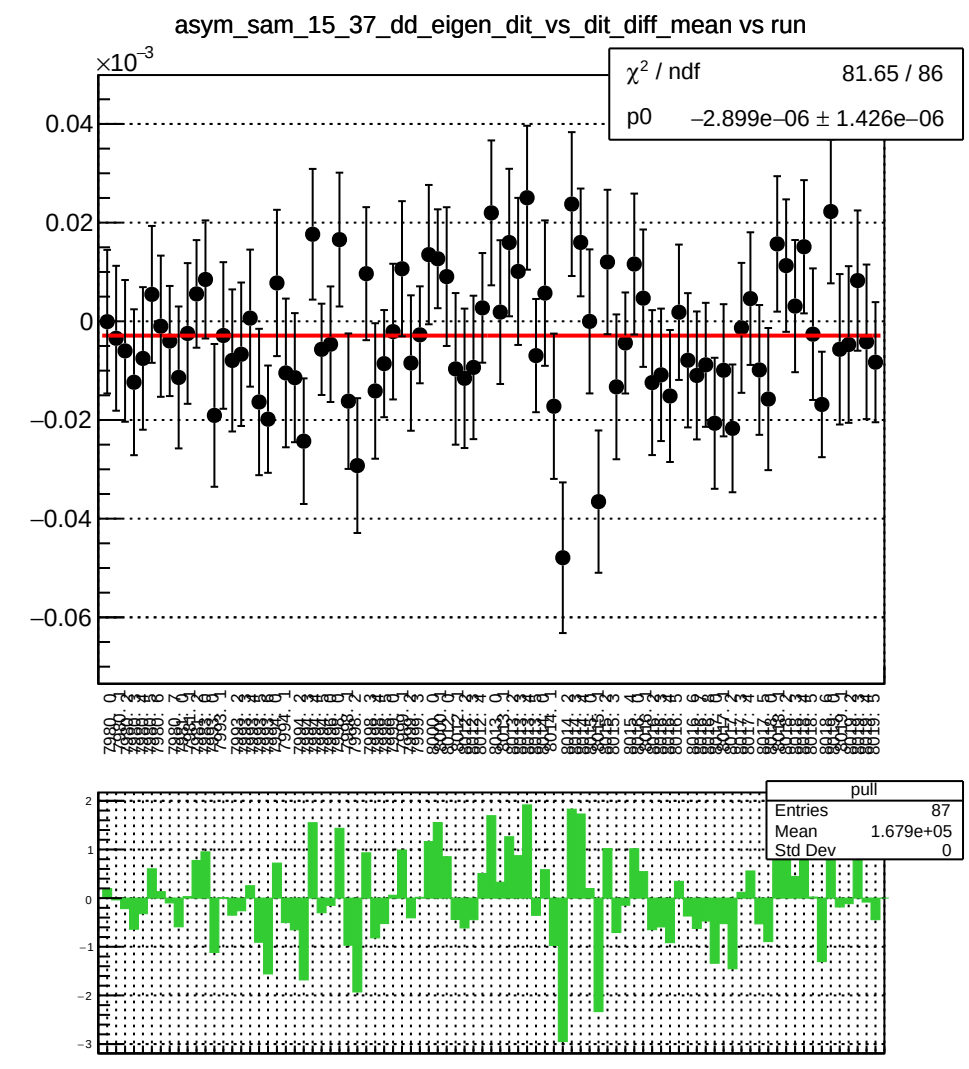

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112 / 86
p0 0.008193 ± 0.0271
pull
Entries 87
Mean 17.81
Std Dev 18.78
pull1D
Entries 87
Mean −0.1359
Std Dev 1.126

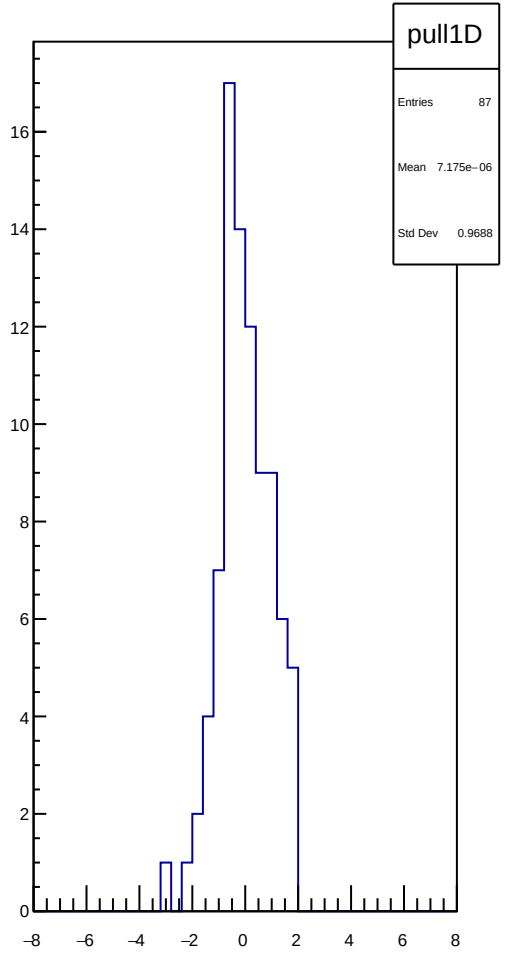

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.327e+05 / 86
p0 20.36 ± 0.01917
250
200
150
100
50

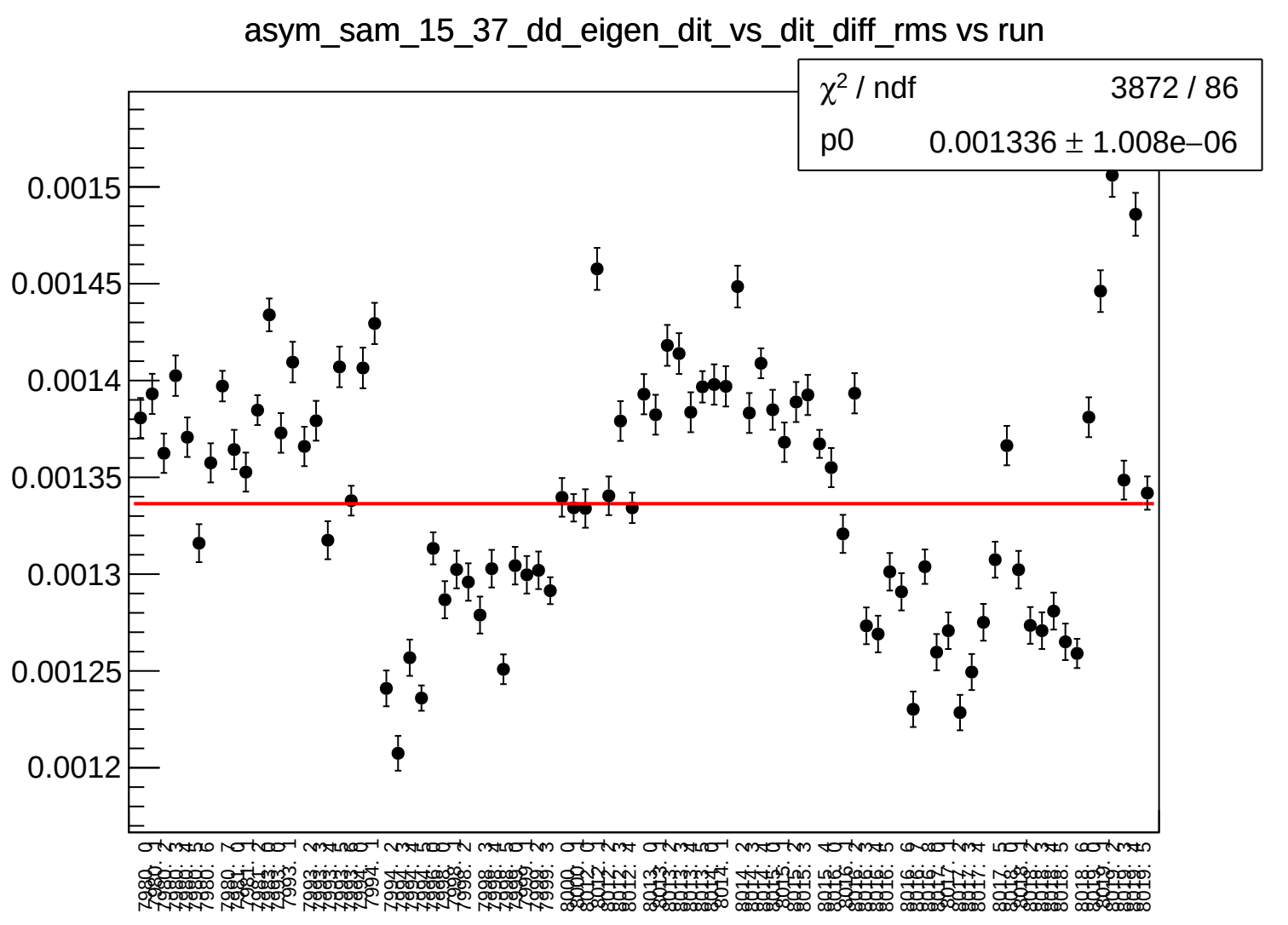

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112 / 86
p0 0.008193 ± 0.0271
pull
Entries 87
Mean 17.81
Std Dev 18.78

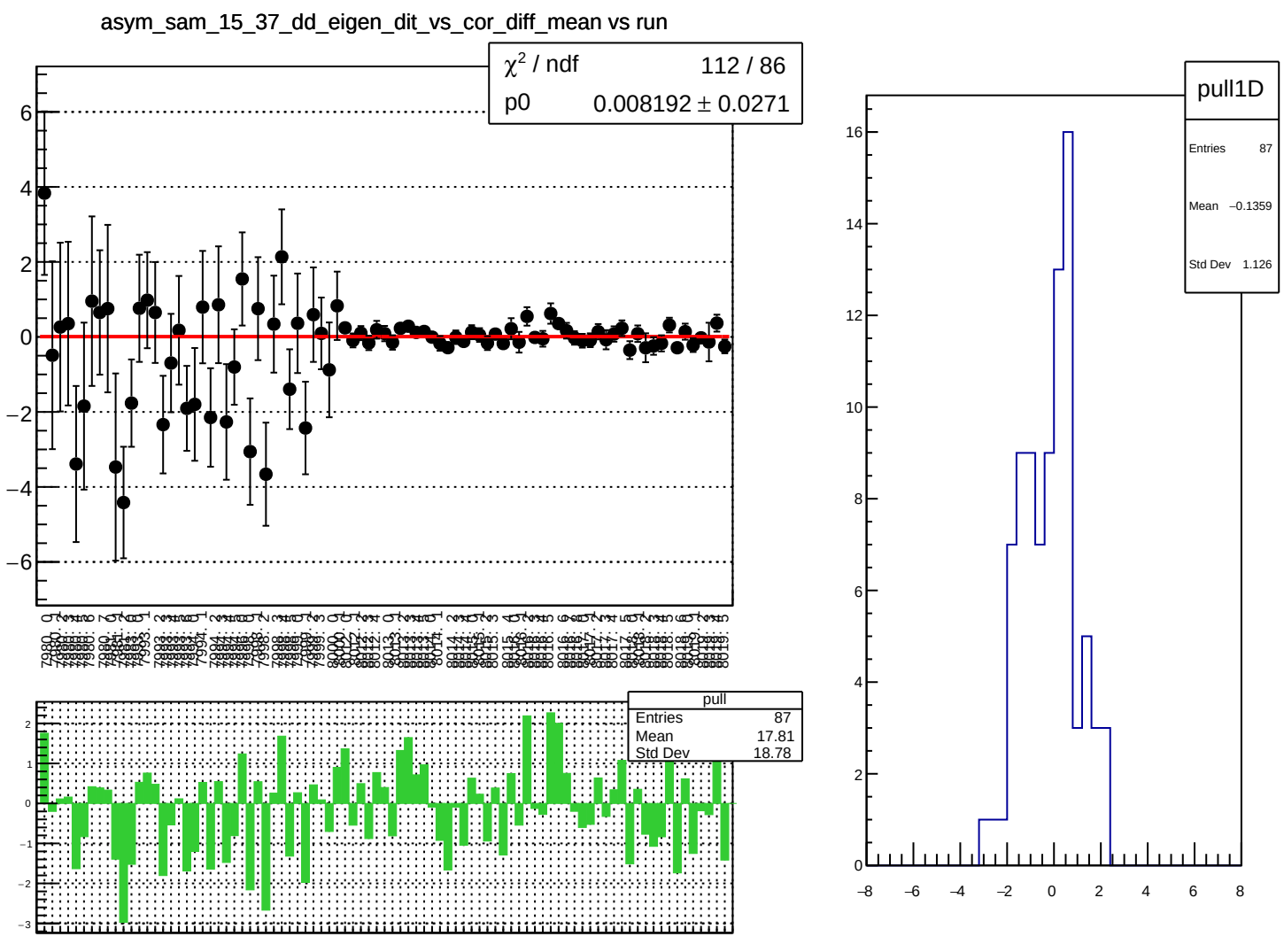

pull1D
Entries 87
Mean −0.1359
Std Dev 1.126

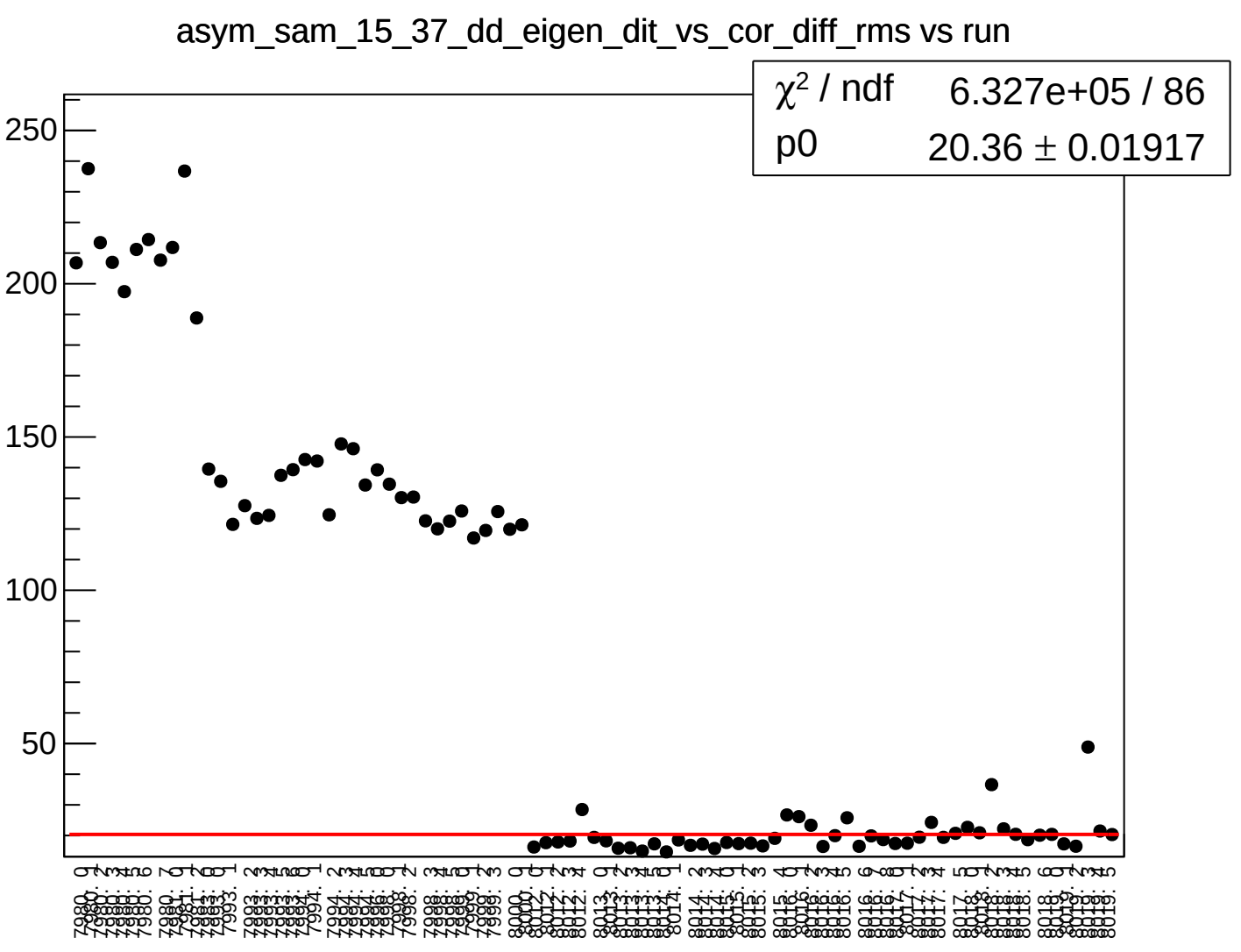

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.327e+05 / 86
p0 20.36 ± 0.01917
250
200
150
100
50

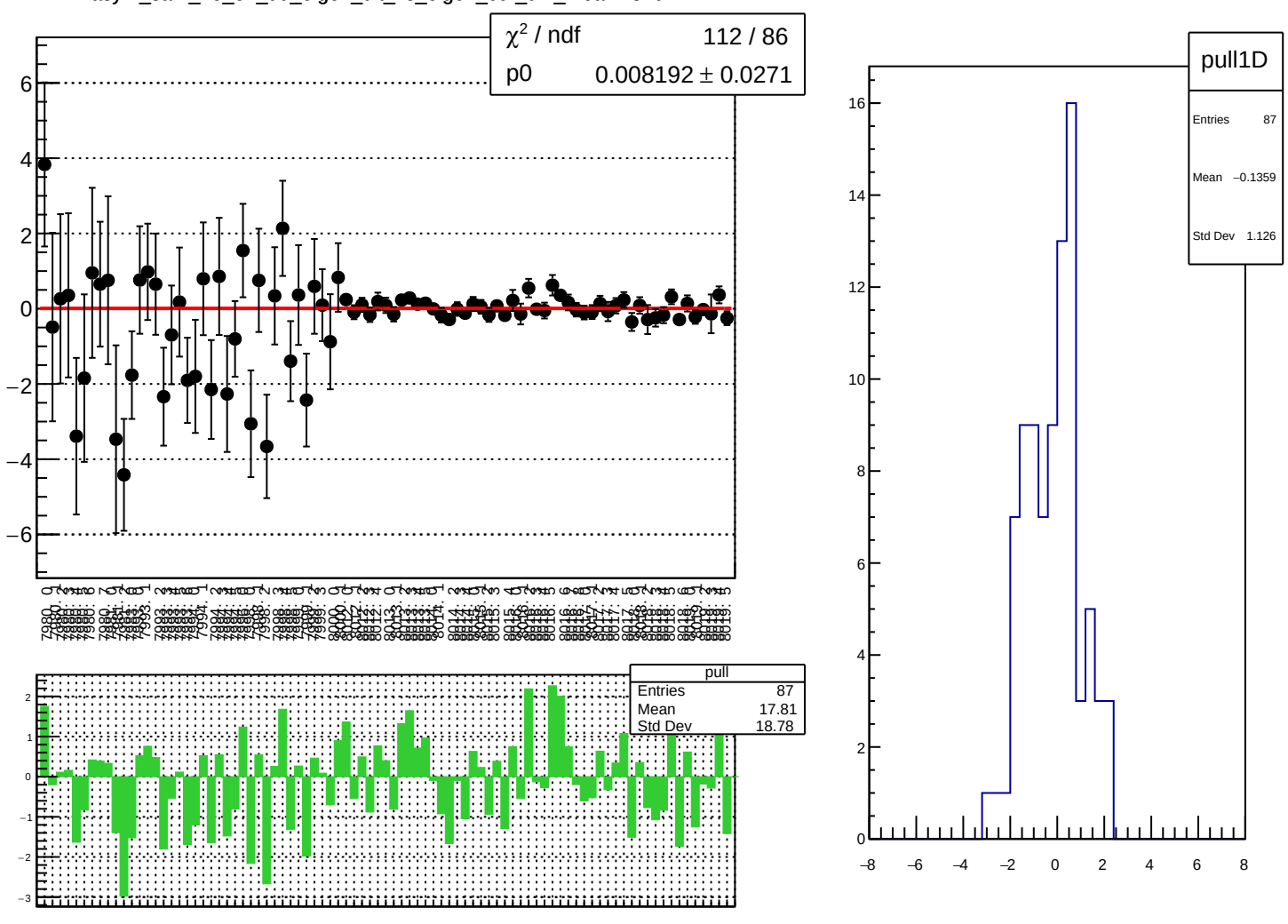

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.65 / 86
p0 −2.899e−06 ± 1.426e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean 1.679e+05
Std Dev 0
2
1
0
−1
−2
−3

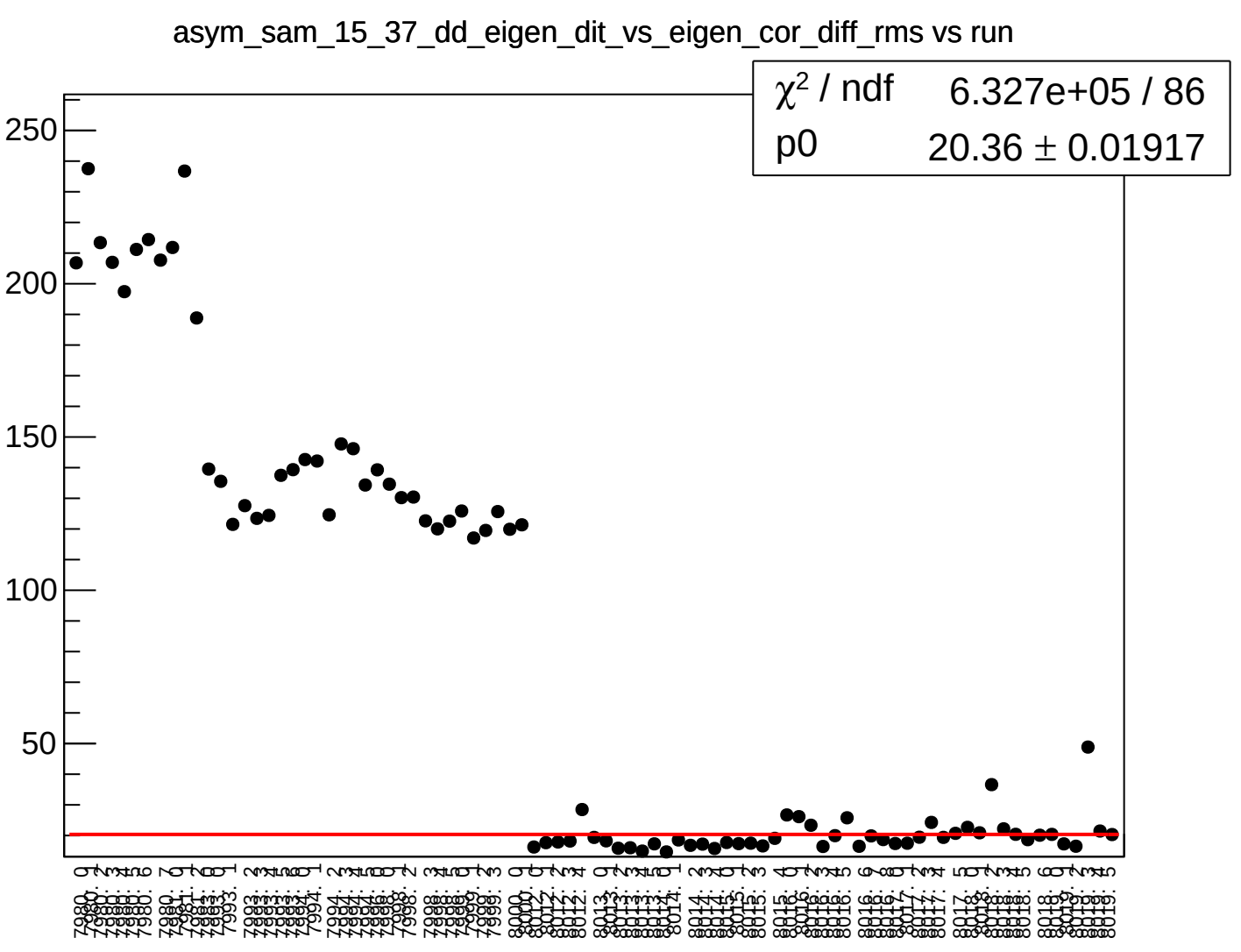

pull1D
Entries 87
Mean 7.175e−06
Std Dev 0.9688
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

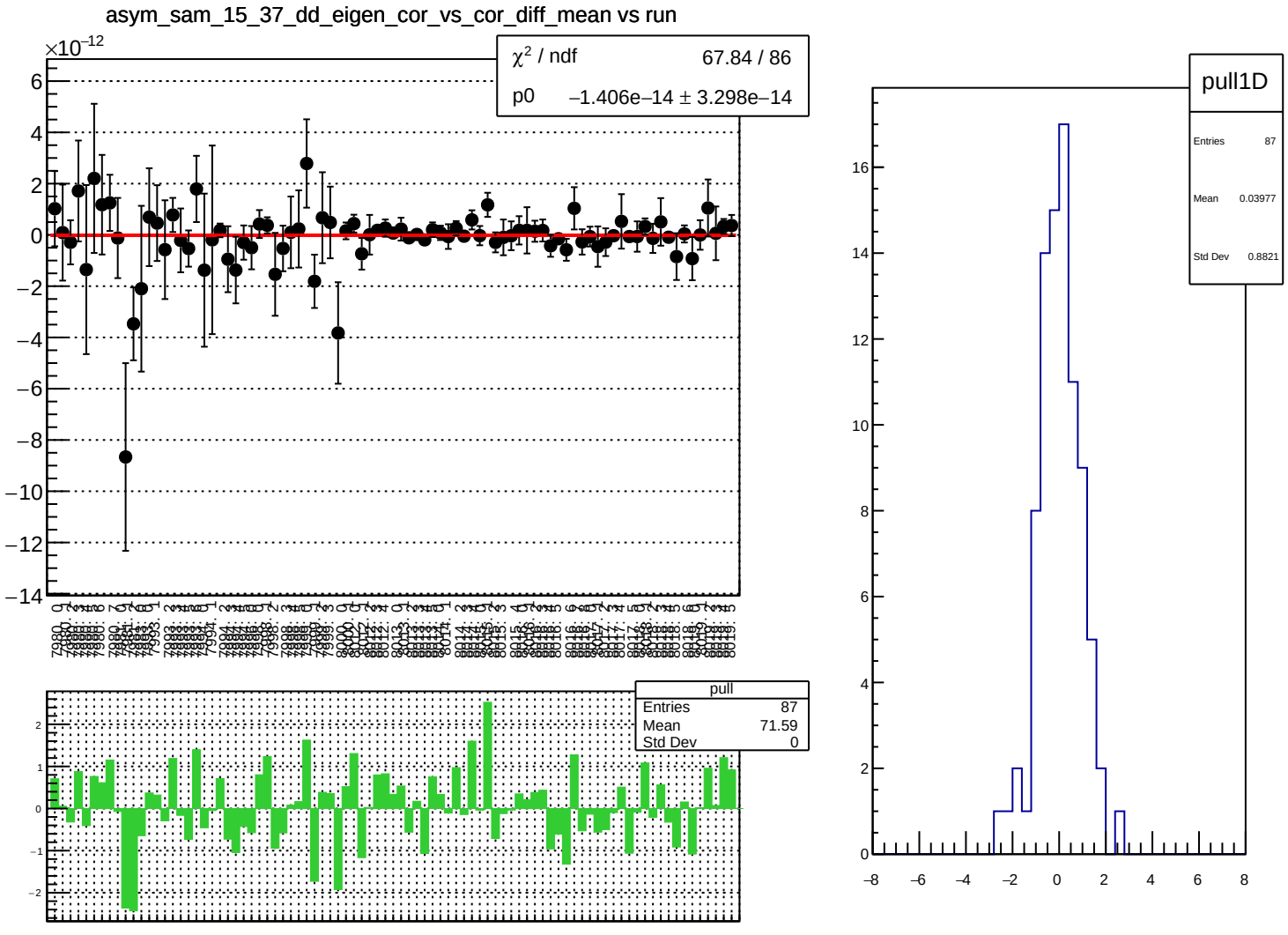

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3872 / 86
p0 0.001336 ± 1.008e−06
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012

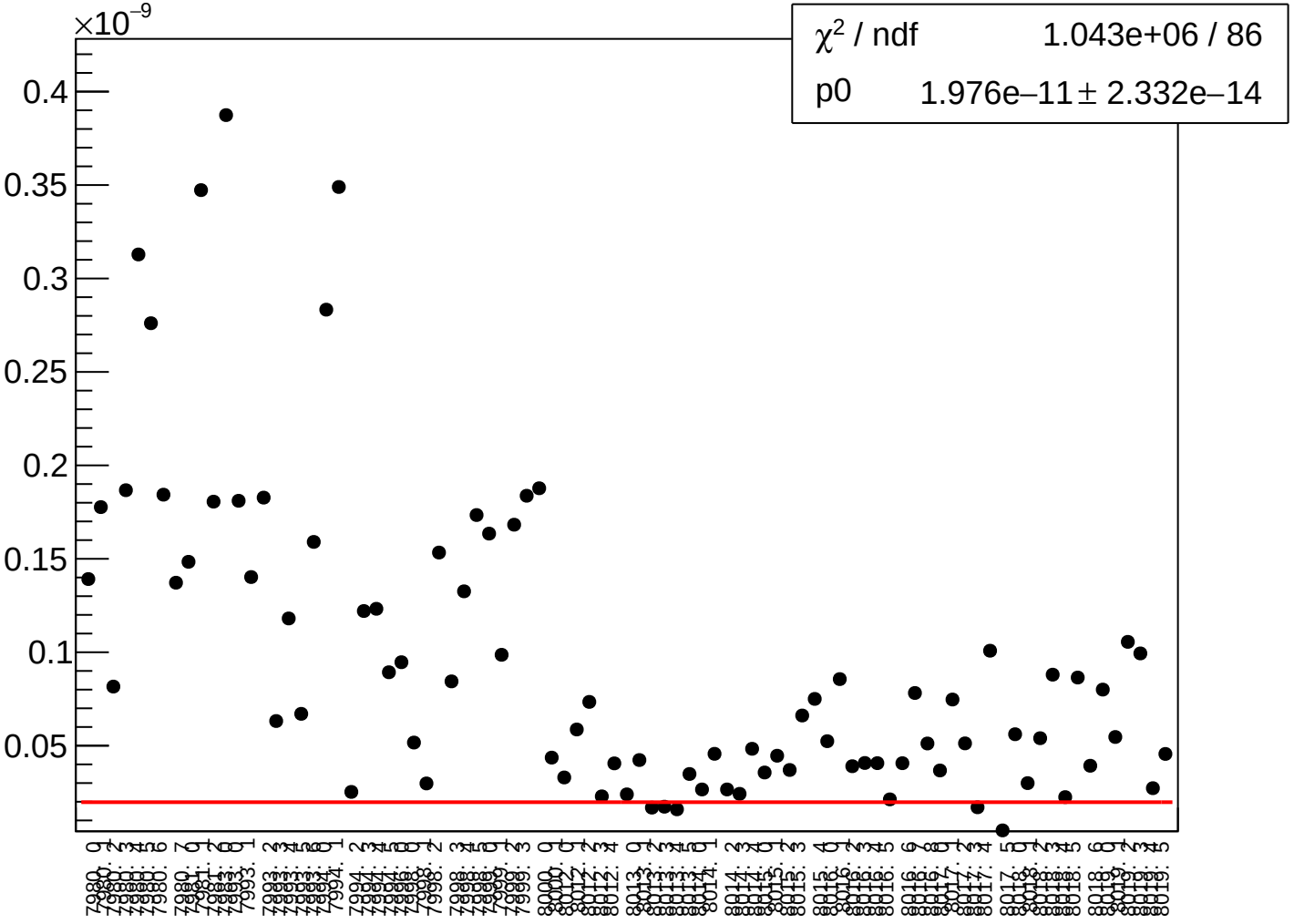

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112 / 86
p0 0.008192 ± 0.0271
pull
Entries 87
Mean 17.81
Std Dev 18.78
pull1D
Entries 87
Mean −0.1359
Std Dev 1.126

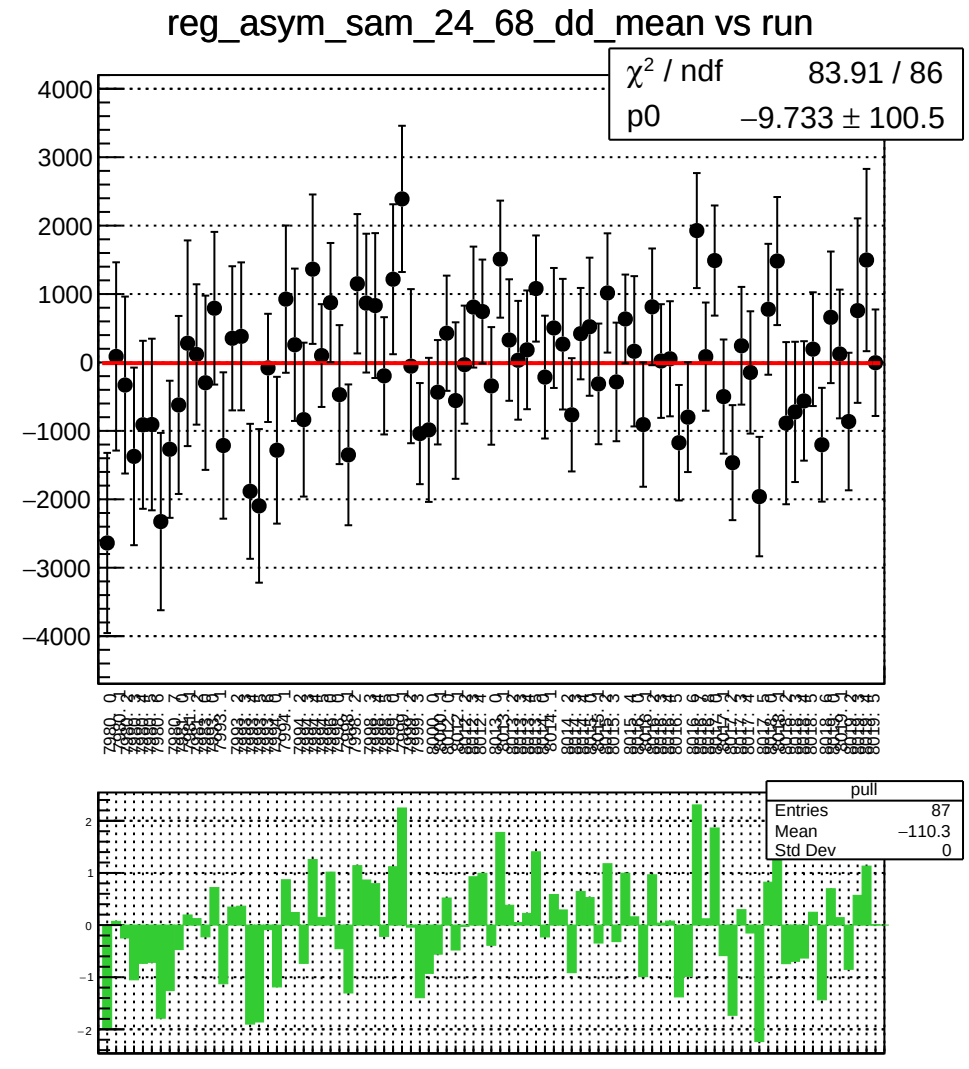

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.327e+05 / 86
p0 20.36 ± 0.01917
250
200
150
100
50

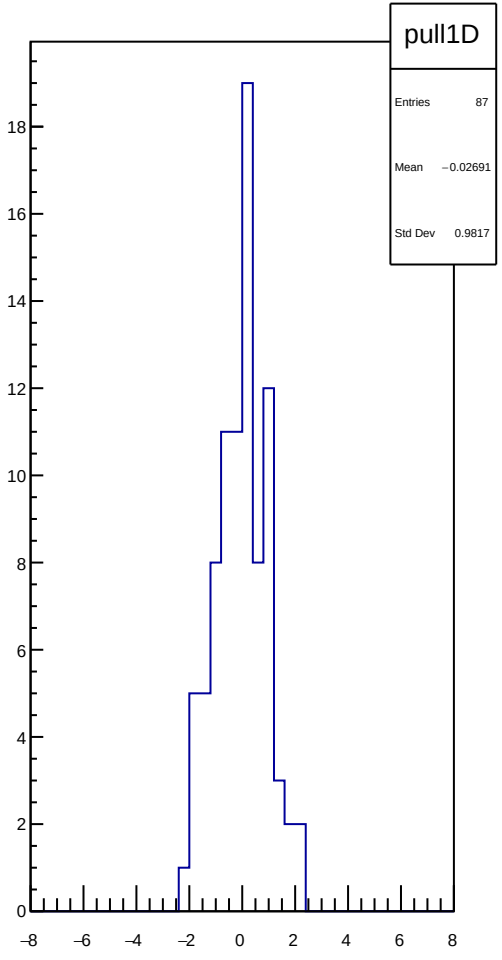

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112 / 86
p0 0.008192 ± 0.0271
pull
Entries 87
Mean 17.81
Std Dev 18.78
pull1D
Entries 87
Mean −0.1359
Std Dev 1.126

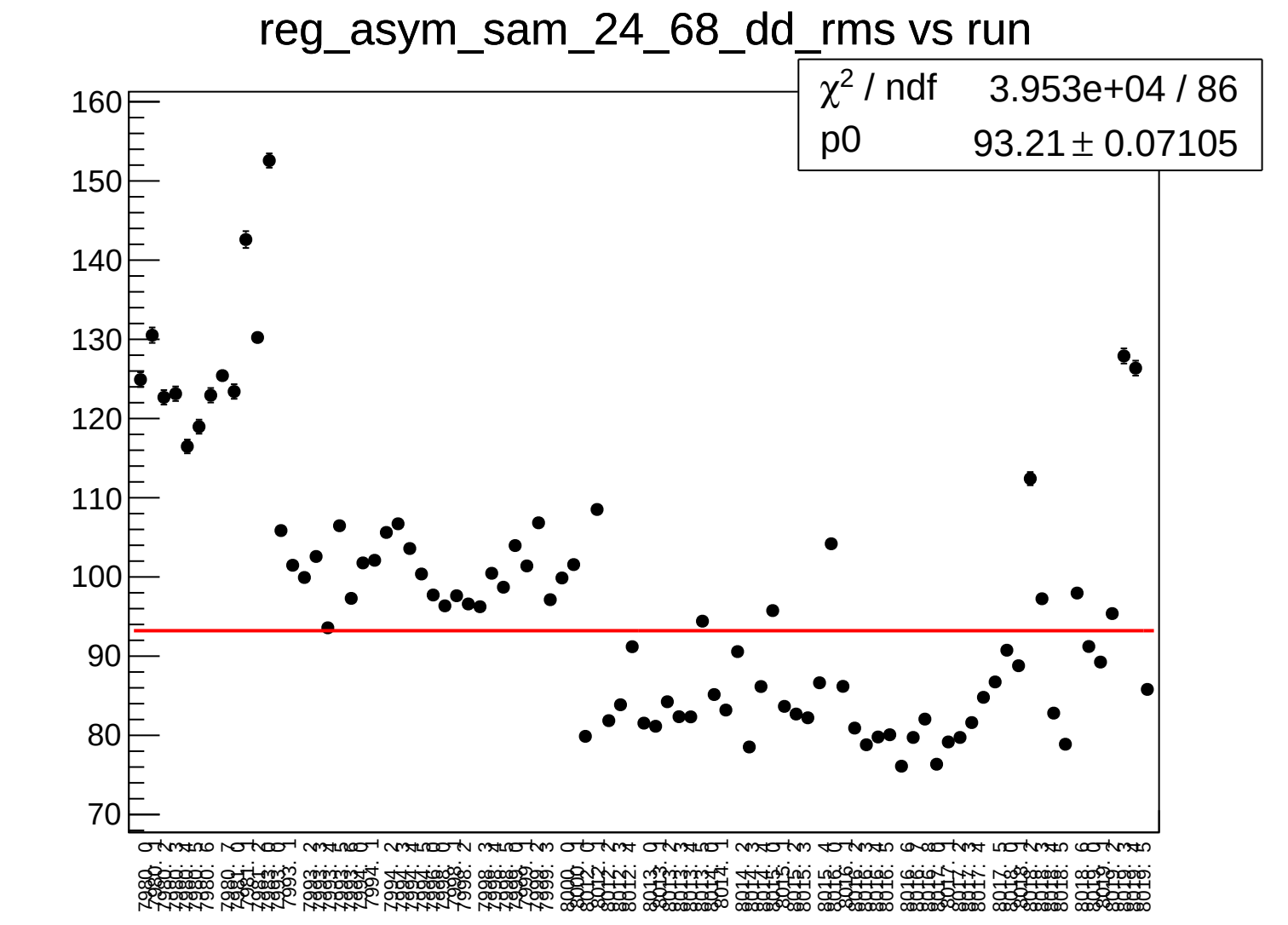

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.327e+05 / 86
p0 20.36 ± 0.01917
250
200
150
100
50

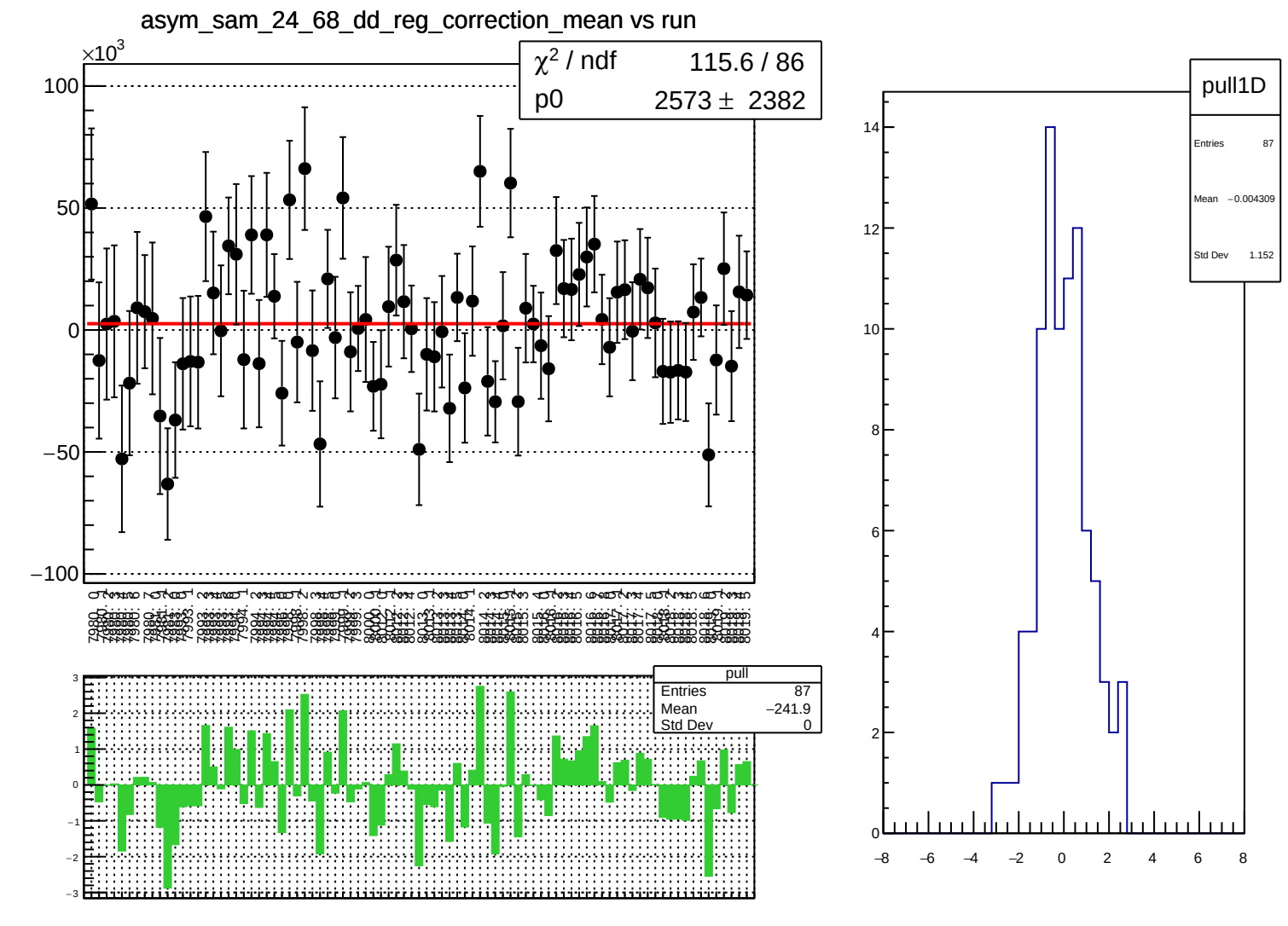

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.84 / 86
p0 −1.406e−14 ± 3.298e−14
pull
Entries 87
Mean 71.59
Std Dev 0
pull1D
Entries 87
Mean 0.03977
Std Dev 0.8821

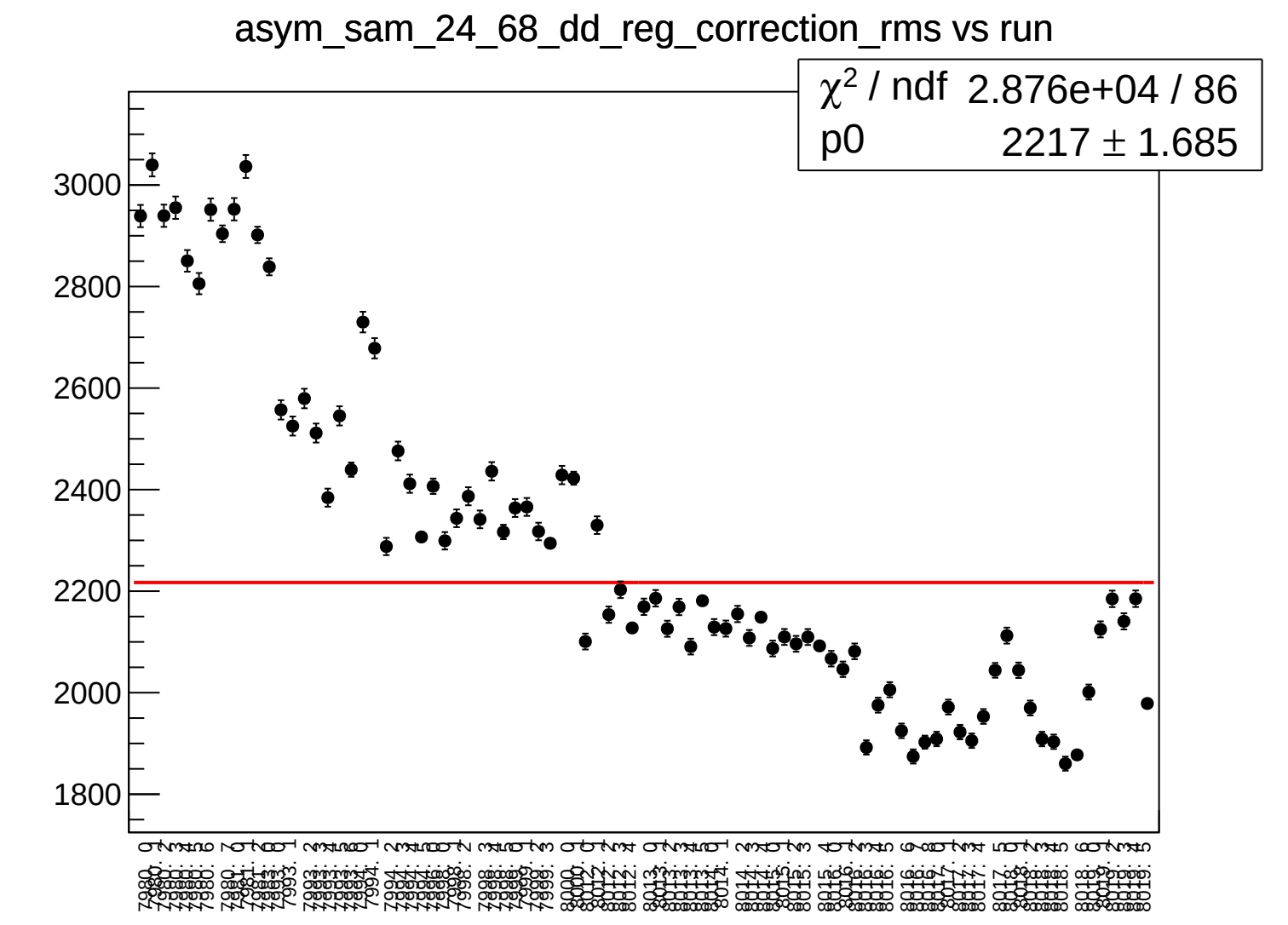

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.043e+06 / 86
p0 1.976e−11 ± 2.332e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

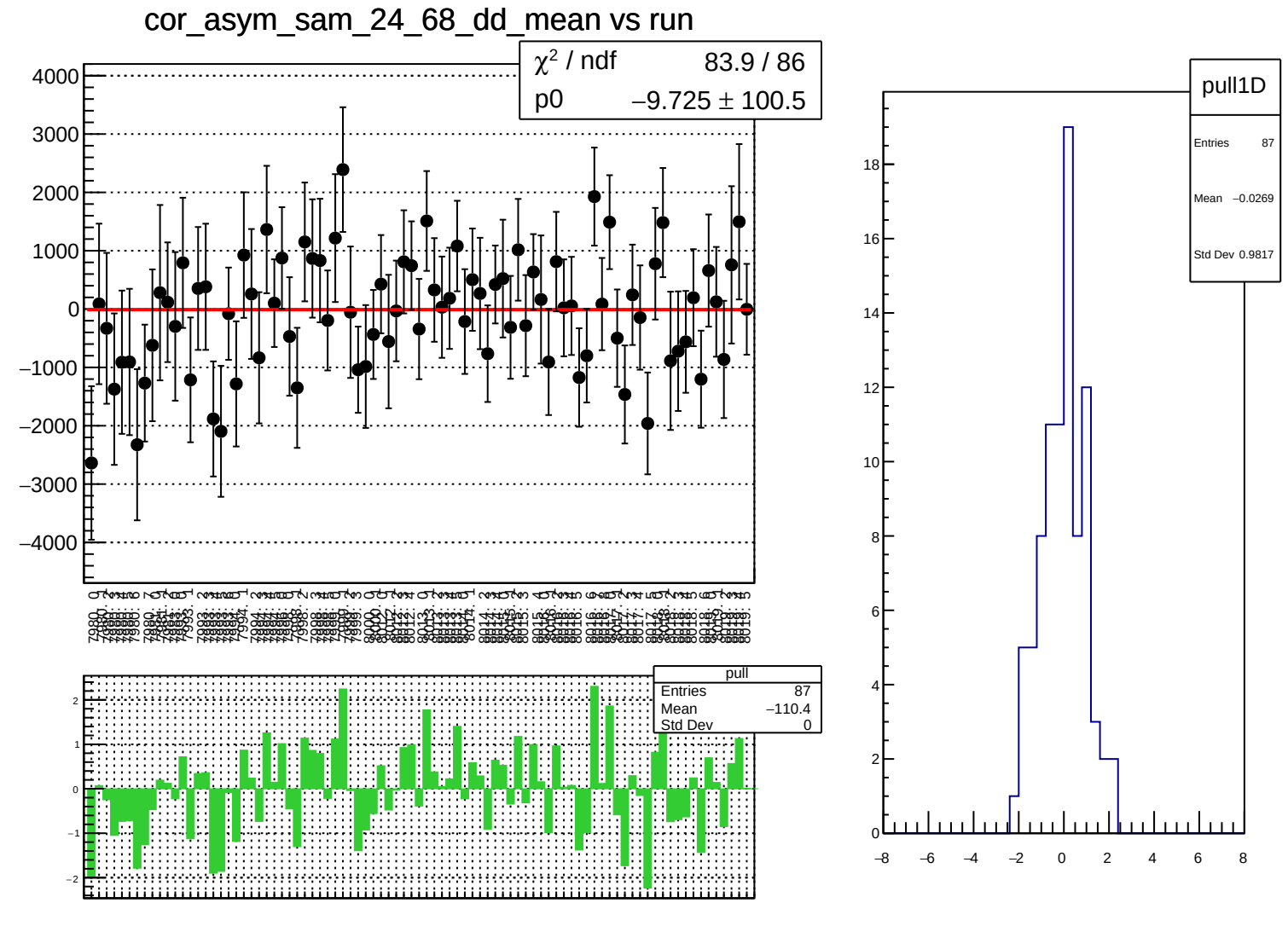

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.91 / 86
p0 −9.733 ± 100.5
pull
Entries 87
Mean −110.3
Std Dev 0

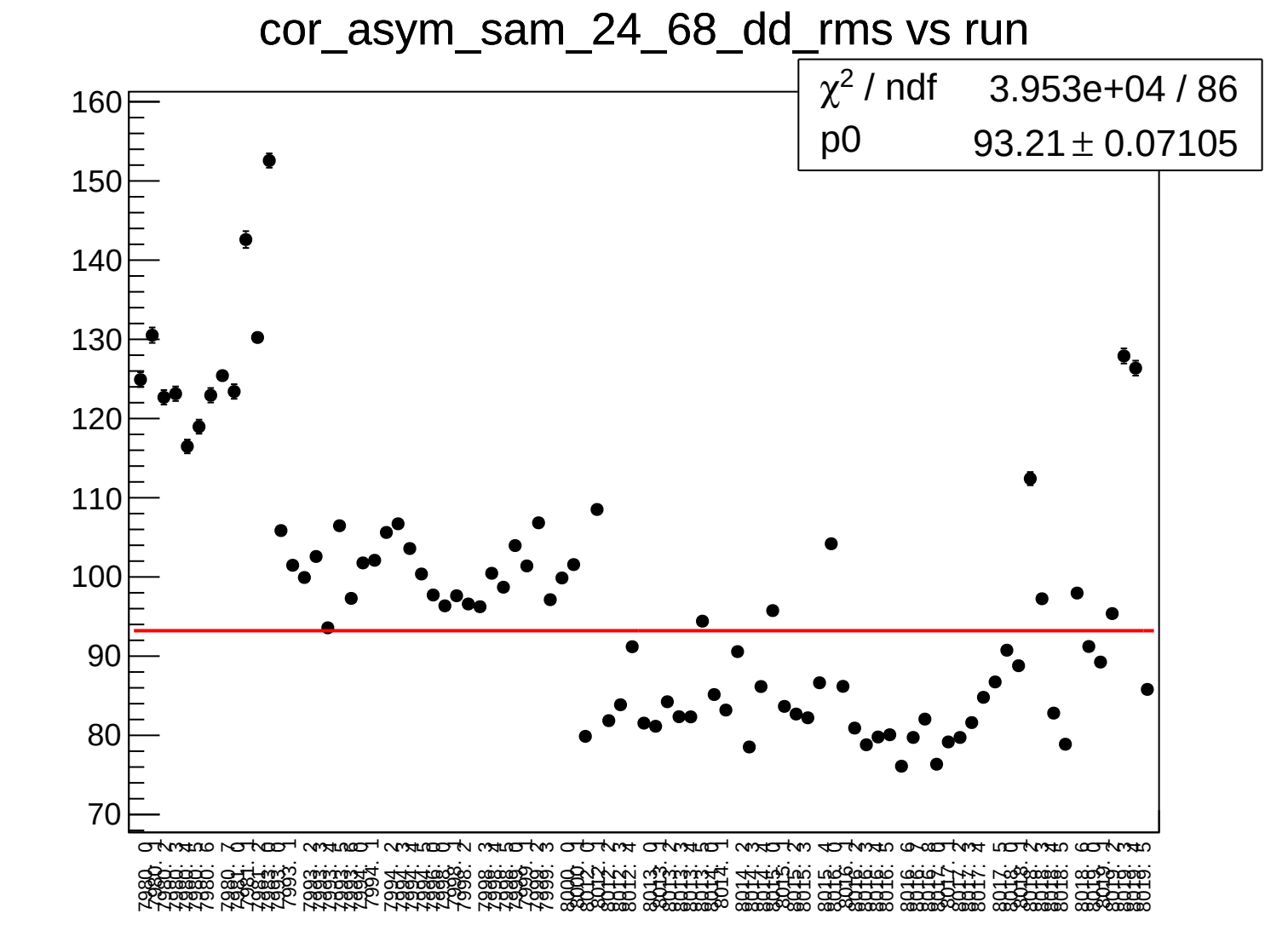

pull1D
Entries 87
Mean −0.02691
Std Dev 0.9817

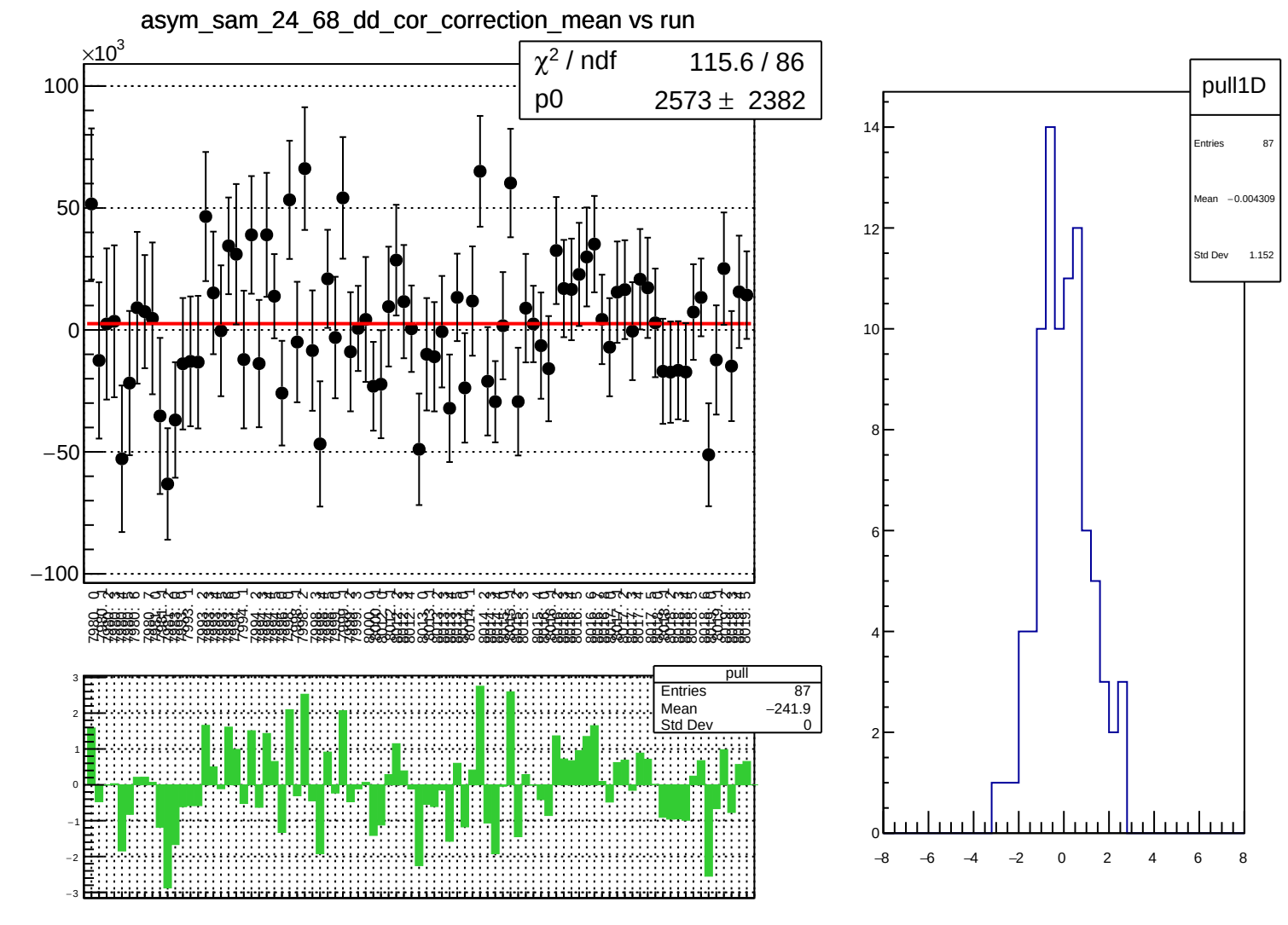

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 3.953e+04 / 86
p0 93.21 ± 0.07105
160
150
140
130
120
110
100
90
80
70

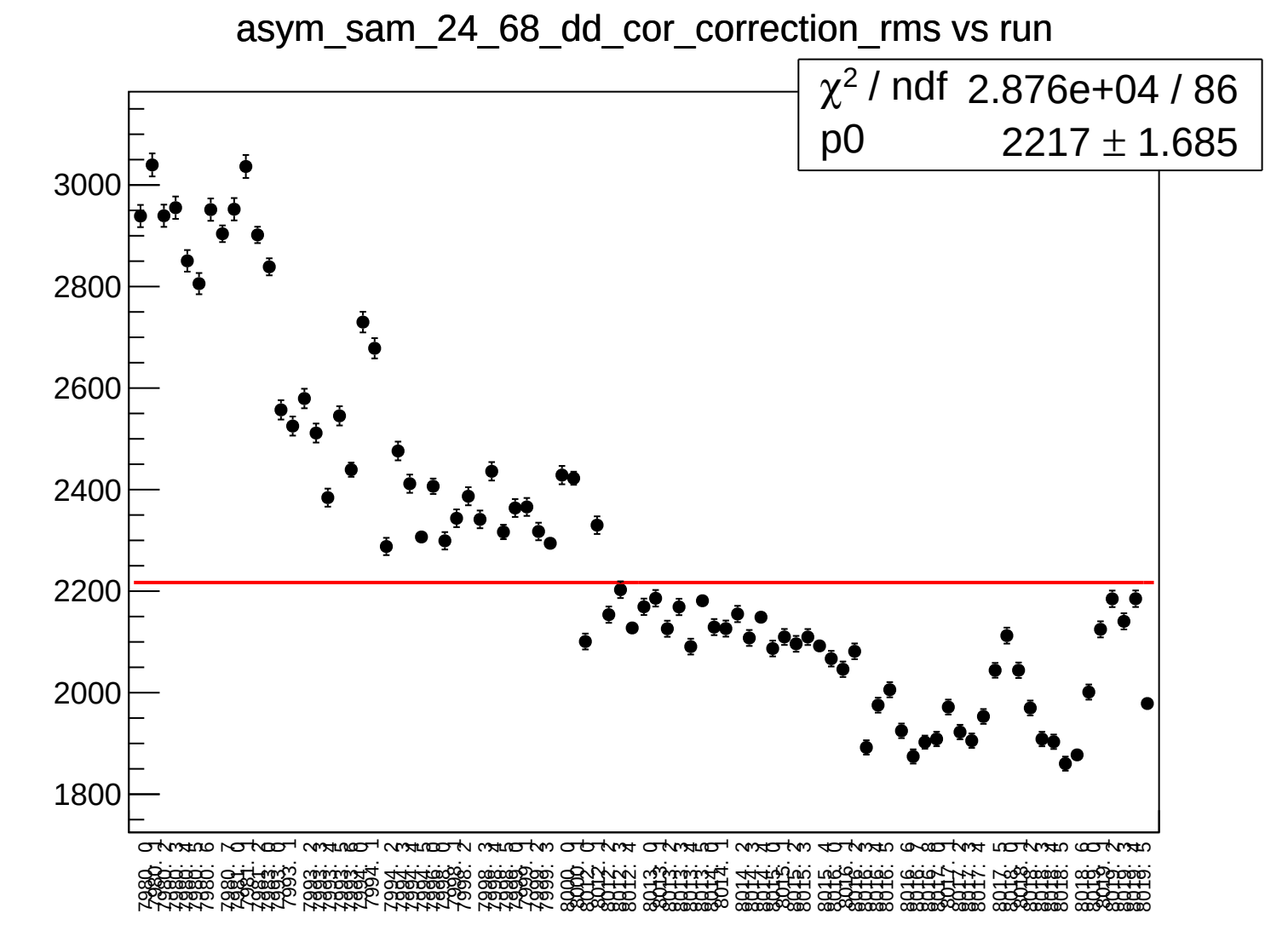

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 115.6 / 86
p0 2573 ± 2382
pull
Entries 87
Mean −241.9
Std Dev 0
pull1D
Entries 87
Mean −0.004309
Std Dev 1.152

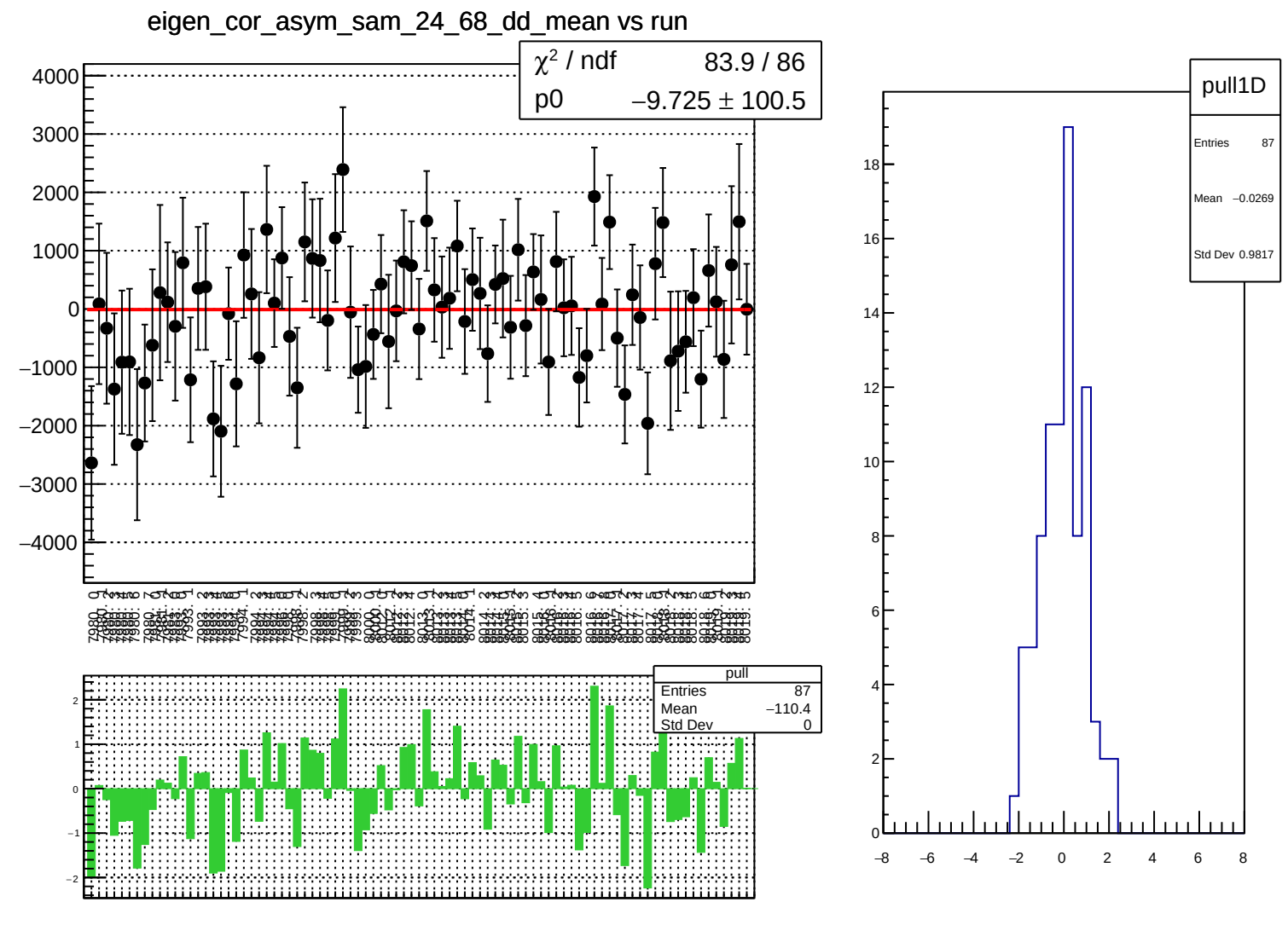

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2.876e+04 / 86
p0 2217 ± 1.685
3000
2800
2600
2400
2200
2000
1800

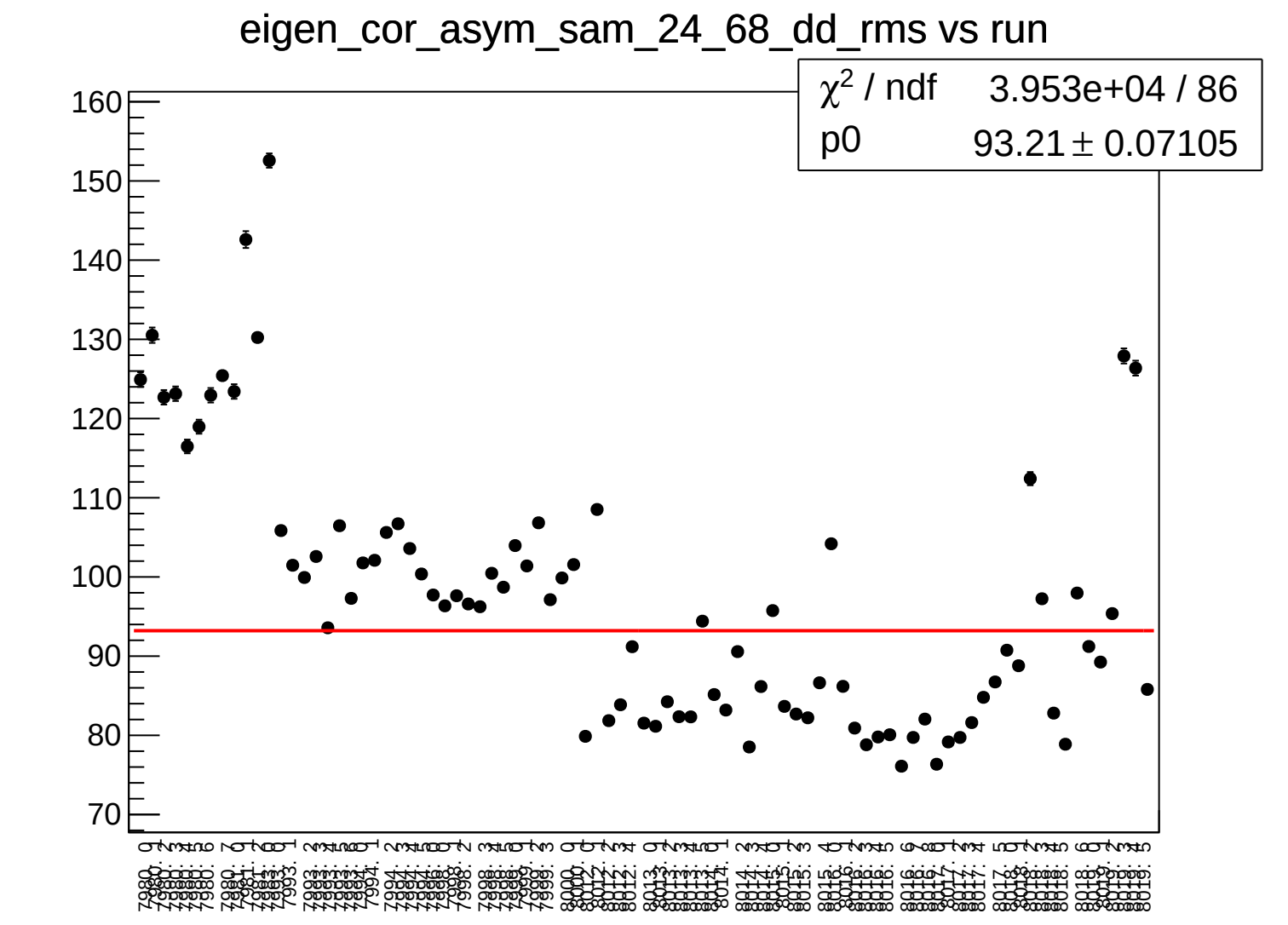

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.9 / 86
p0 −9.725 ± 100.5
pull
Entries 87
Mean −110.4
Std Dev 0
pull1D
Entries 87
Mean −0.0269
Std Dev 0.9817

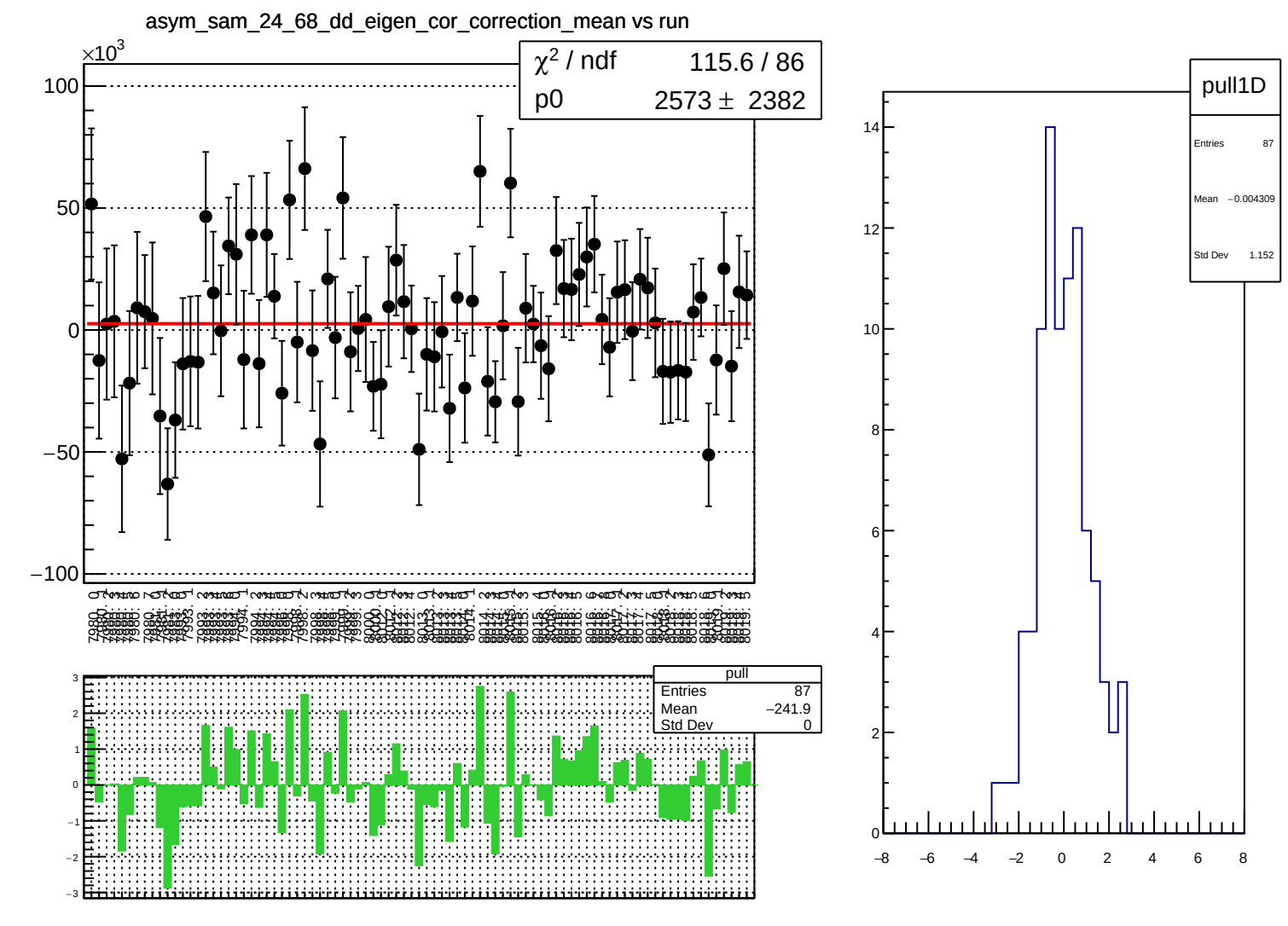

cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 3.953e+04 / 86
p0 93.21 ± 0.07105
160
150
140
130
120
110
100
90
80
70

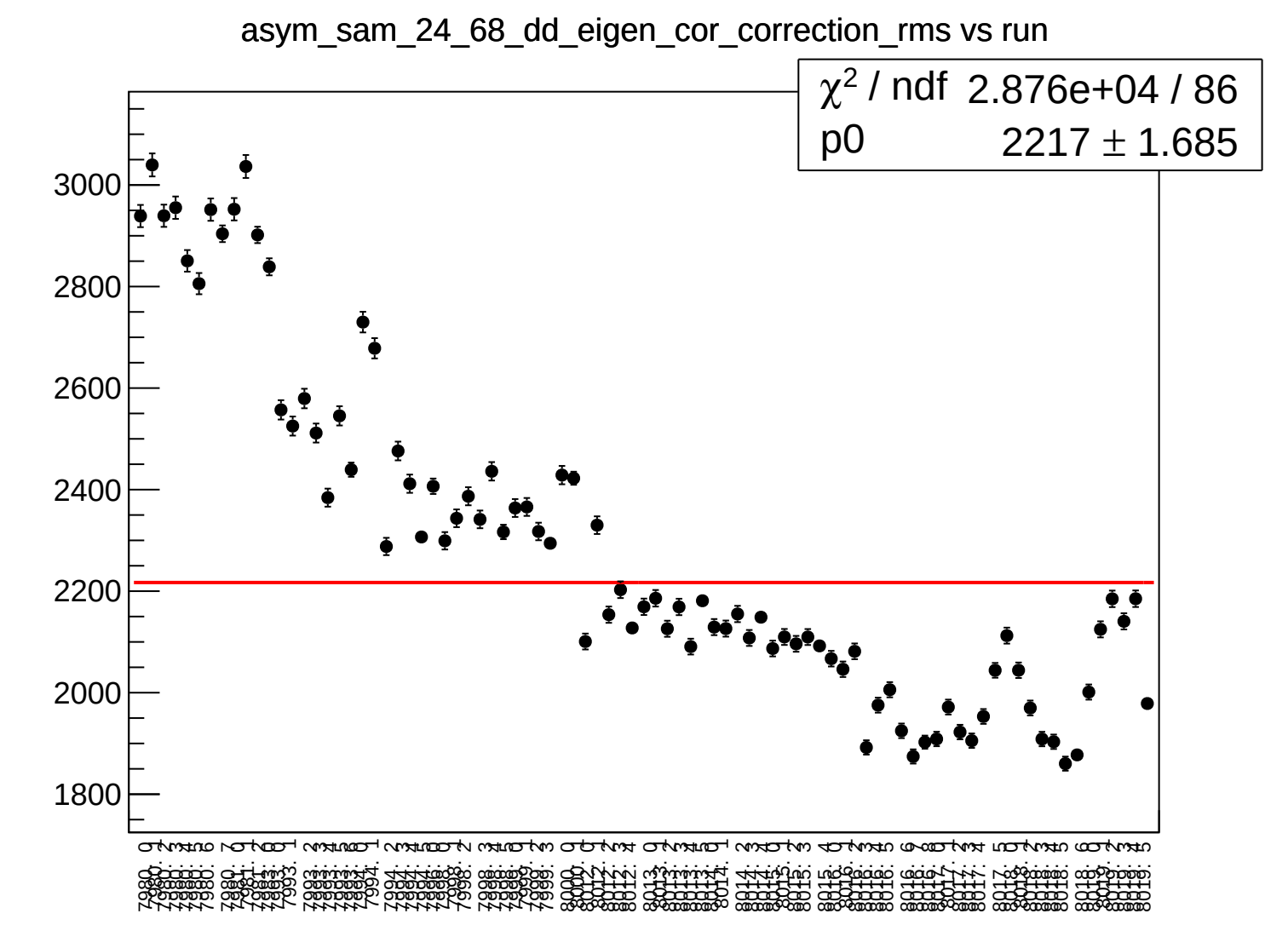

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 115.6 / 86
p0 2573 ± 2382
100
50
0
−50
−100
pull
Entries 87
Mean −241.9
Std Dev 0
pull1D
Entries 87
Mean −0.004309
Std Dev 1.152

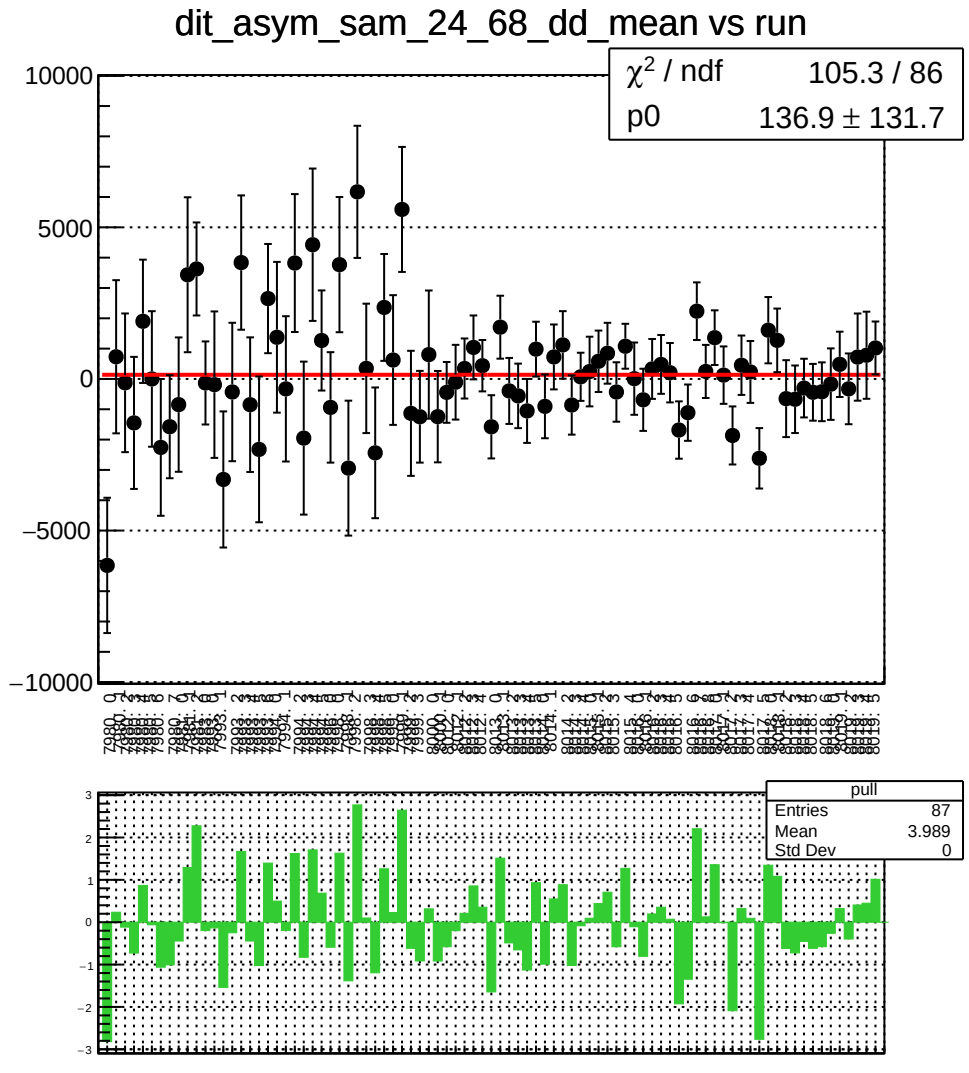

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 2.876e+04 / 86
p0 2217 ± 1.685
3000
2800
2600
2400
2200
2000
1800

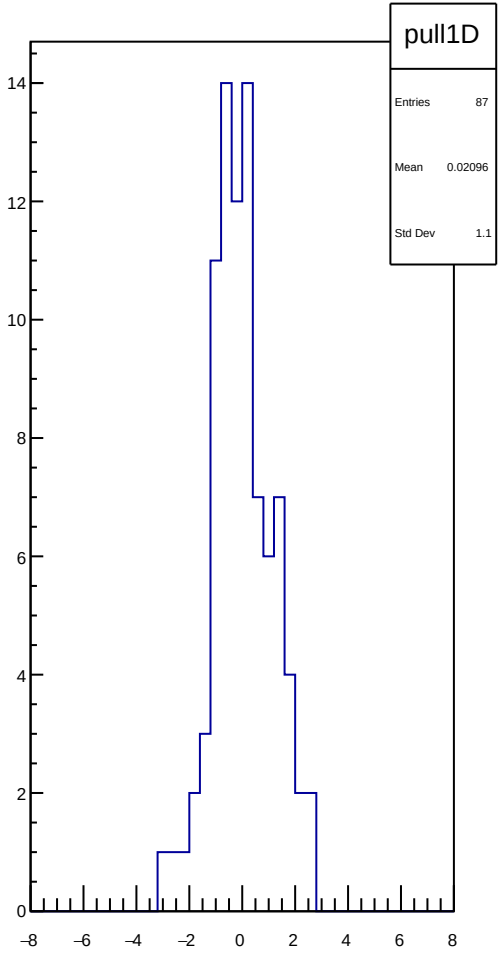

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.9 / 86
p0 −9.725 ± 100.5
pull
Entries 87
Mean −110.4
Std Dev 0
pull1D
Entries 87
Mean −0.0269
Std Dev 0.9817

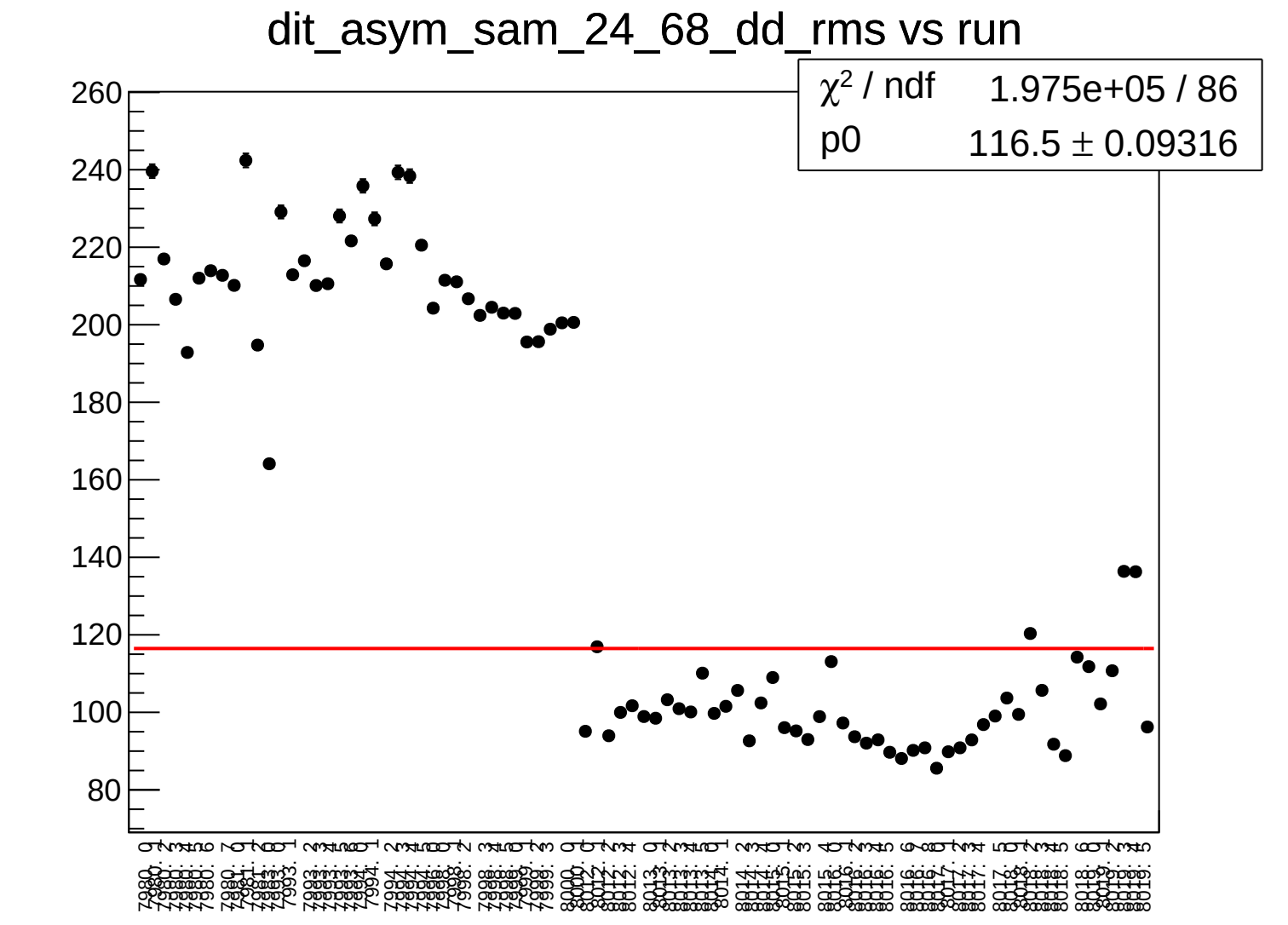

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 3.953e+04 / 86
p0 93.21 ± 0.07105
160
150
140
130
120
110
100
90
80
70

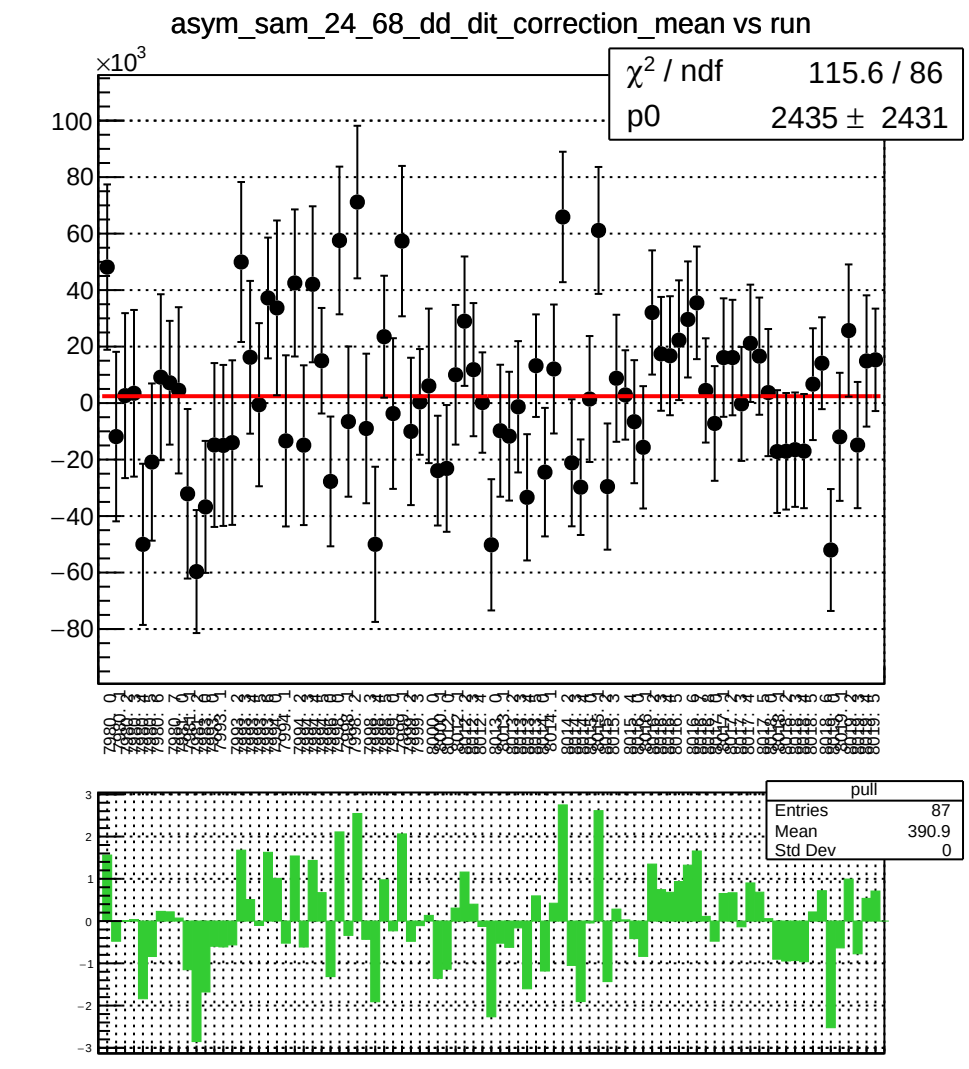

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 115.6 / 86
p0 2573 ± 2382
100
50
0
−50
−100
pull
Entries 87
Mean −241.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.004309
Std Dev 1.152
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

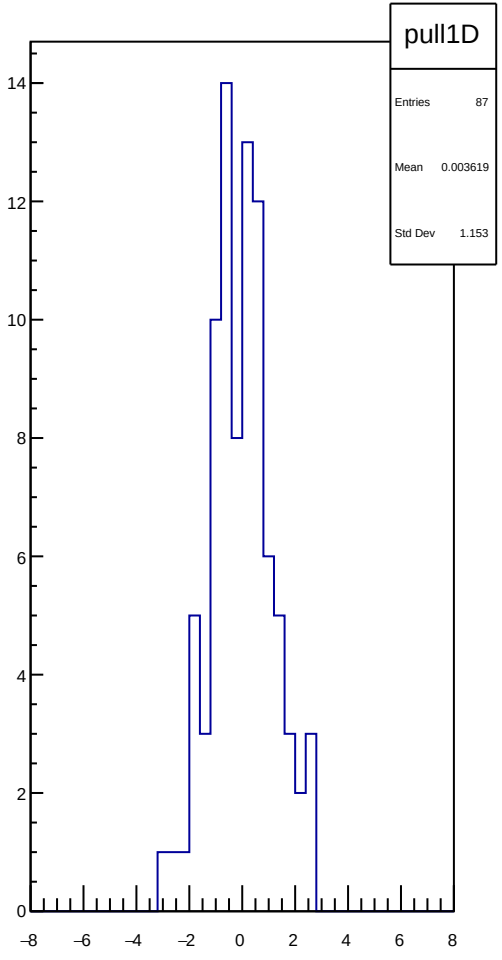

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.876e+04 / 86
p0 2217 ± 1.685
3000
2800
2600
2400
2200
2000
1800

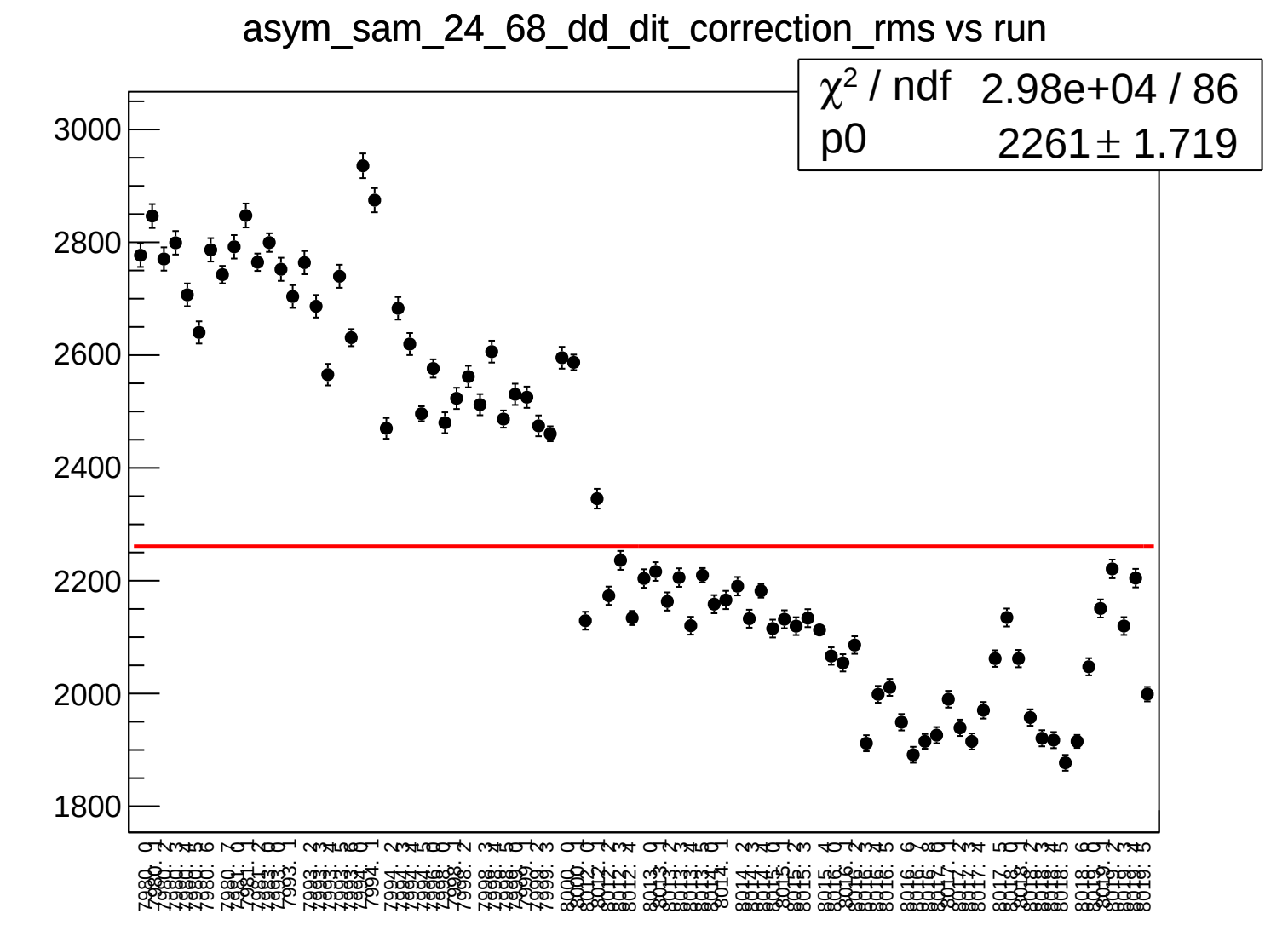

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 105.3 / 86
p0 136.9 ± 131.7
pull
Entries 87
Mean 3.989
Std Dev 0

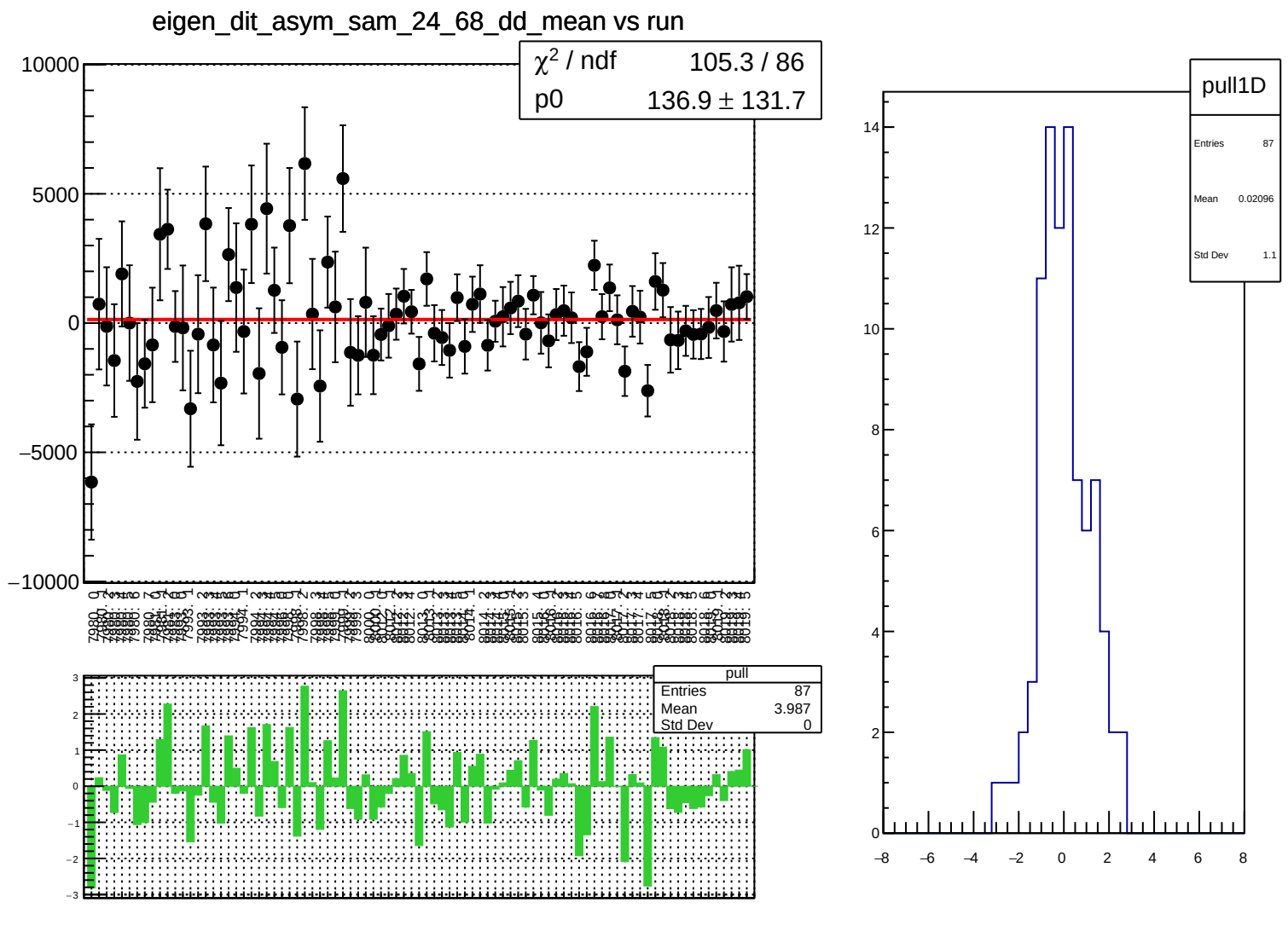

pull1D
Entries 87
Mean 0.02096
Std Dev 1.1

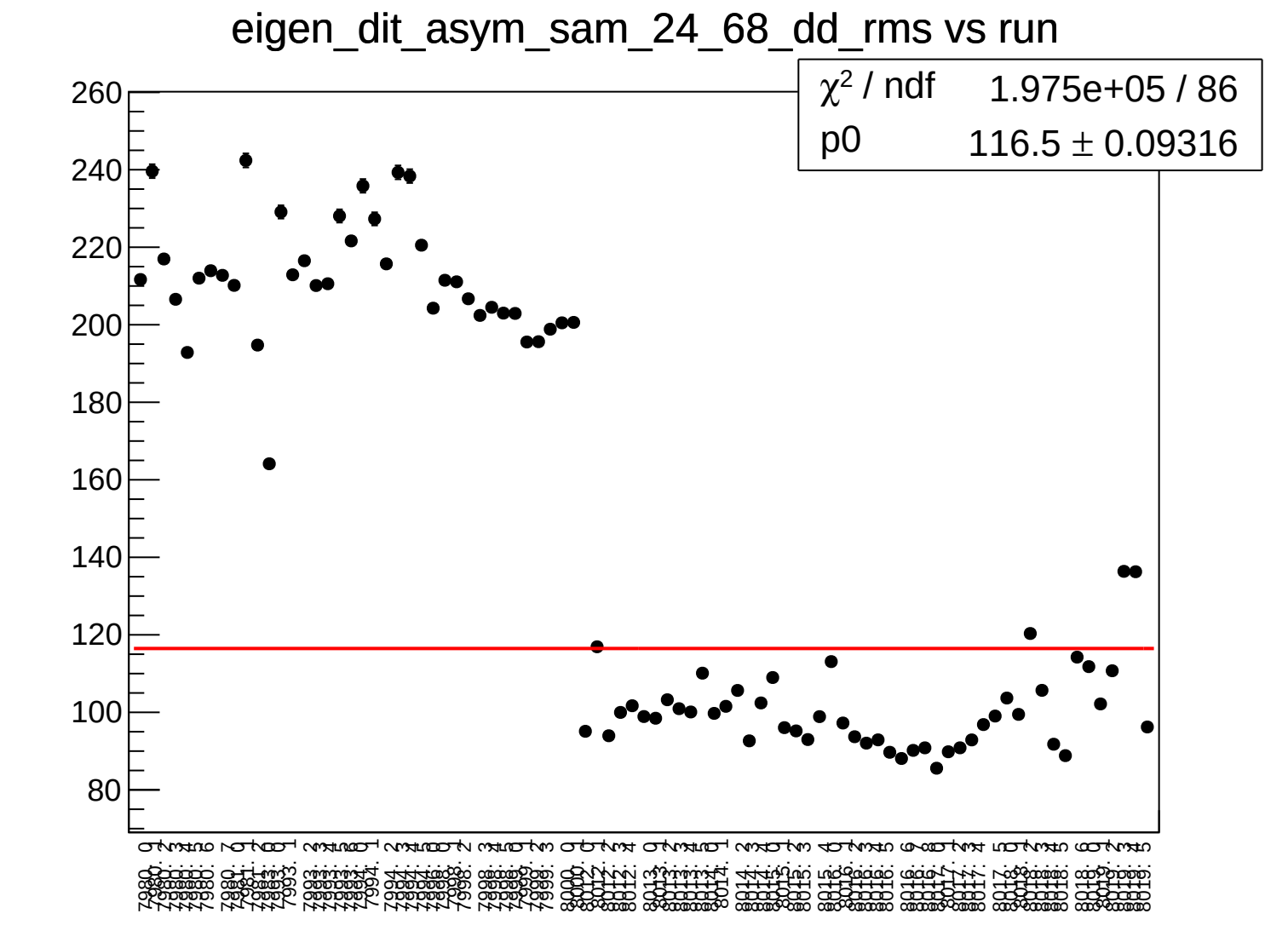

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.975e+05 / 86
p0 116.5 ± 0.09316
260
240
220
200
180
160
140
120
100
80

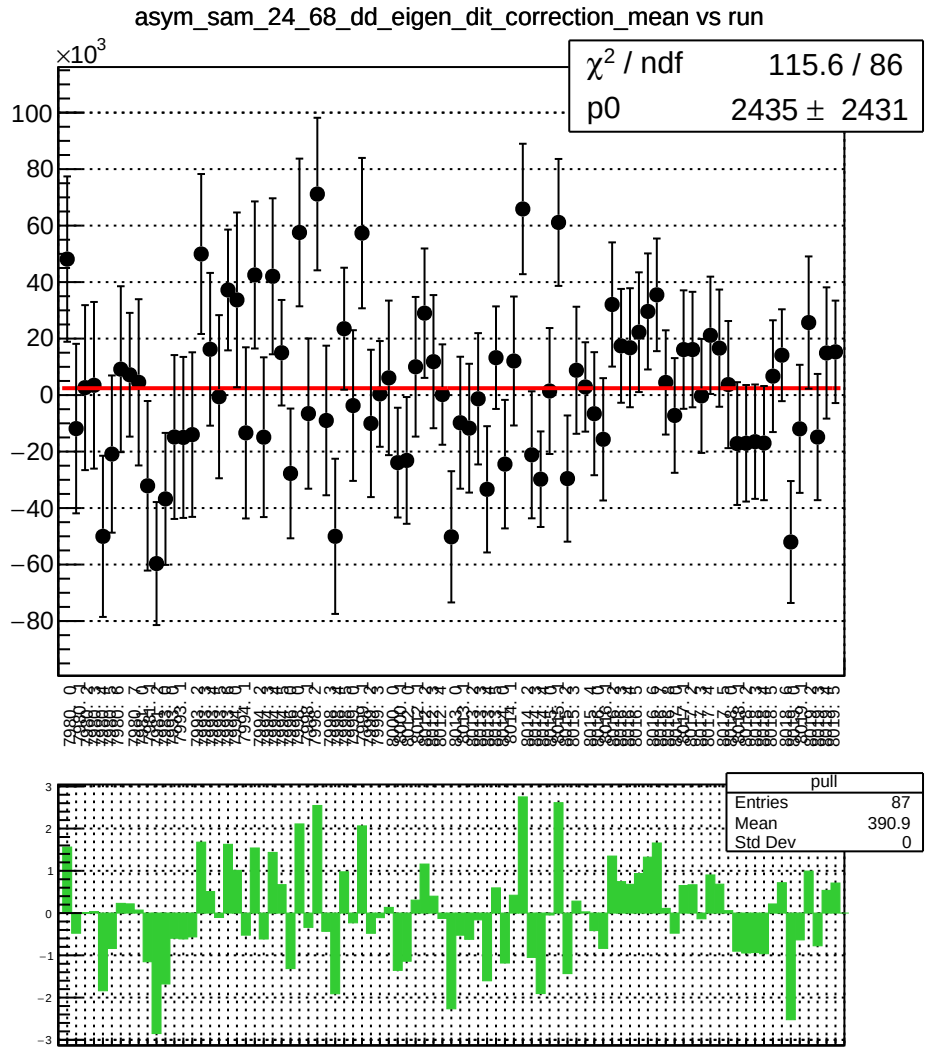

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 115.6 / 86
p0 2435 ± 2431
pull
Entries 87
Mean 390.9
Std Dev 0

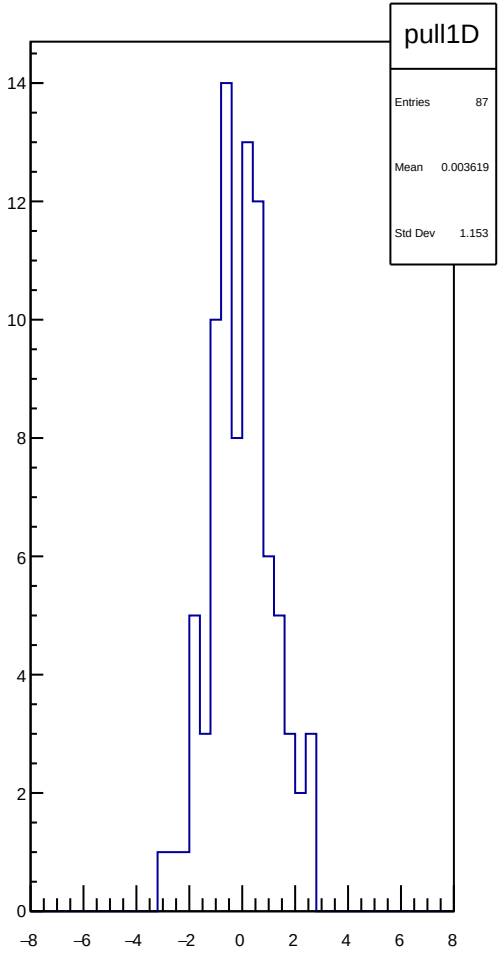

pull1D
Entries 87
Mean 0.003619
Std Dev 1.153

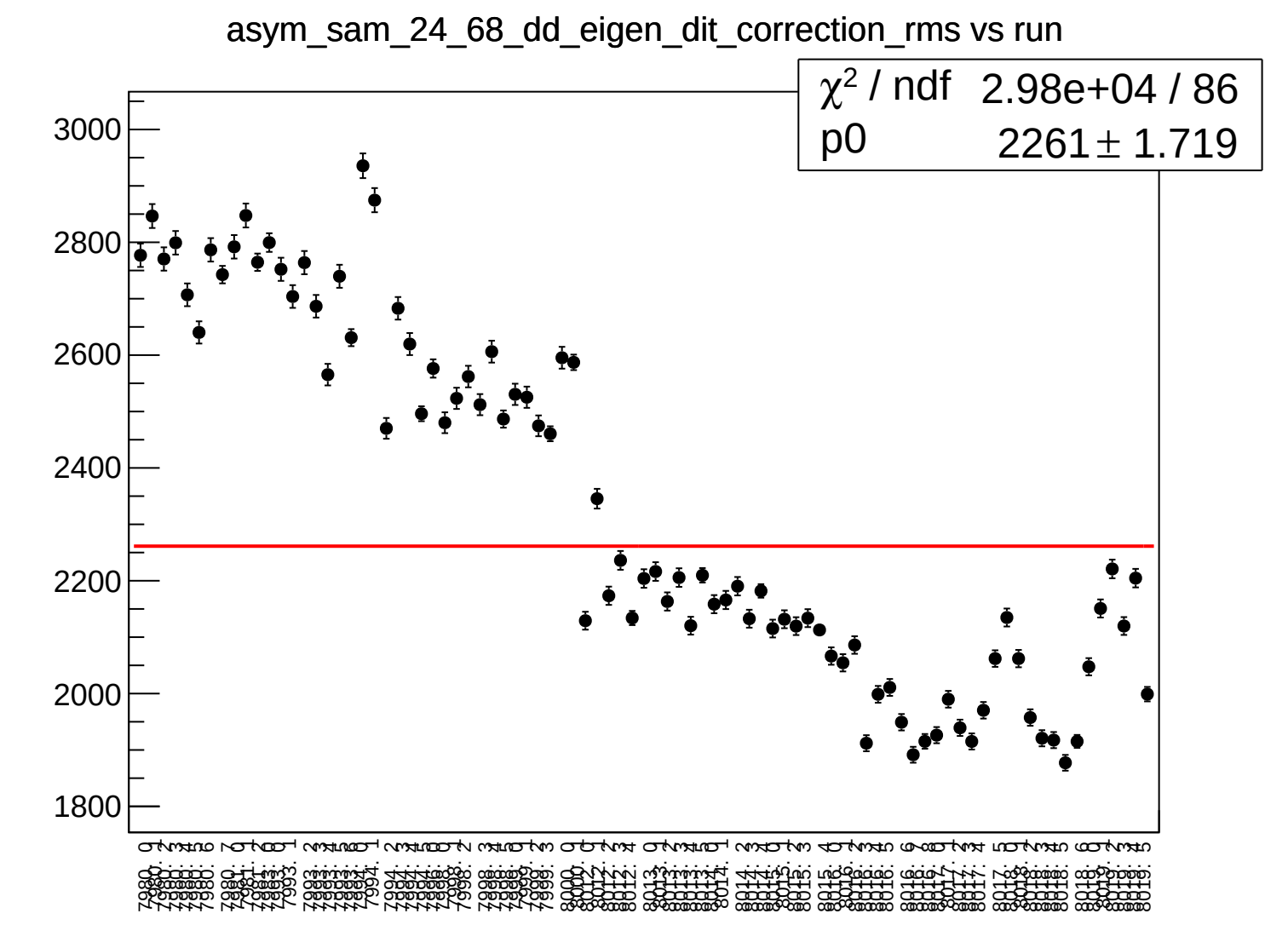

asym_sam_24_68_dd_dit_correction_rms vs run
χ^2 / ndf 2.98e+04 / 86
p0 2261 ± 1.719
3000
2800
2600
2400
2200
2000
1800

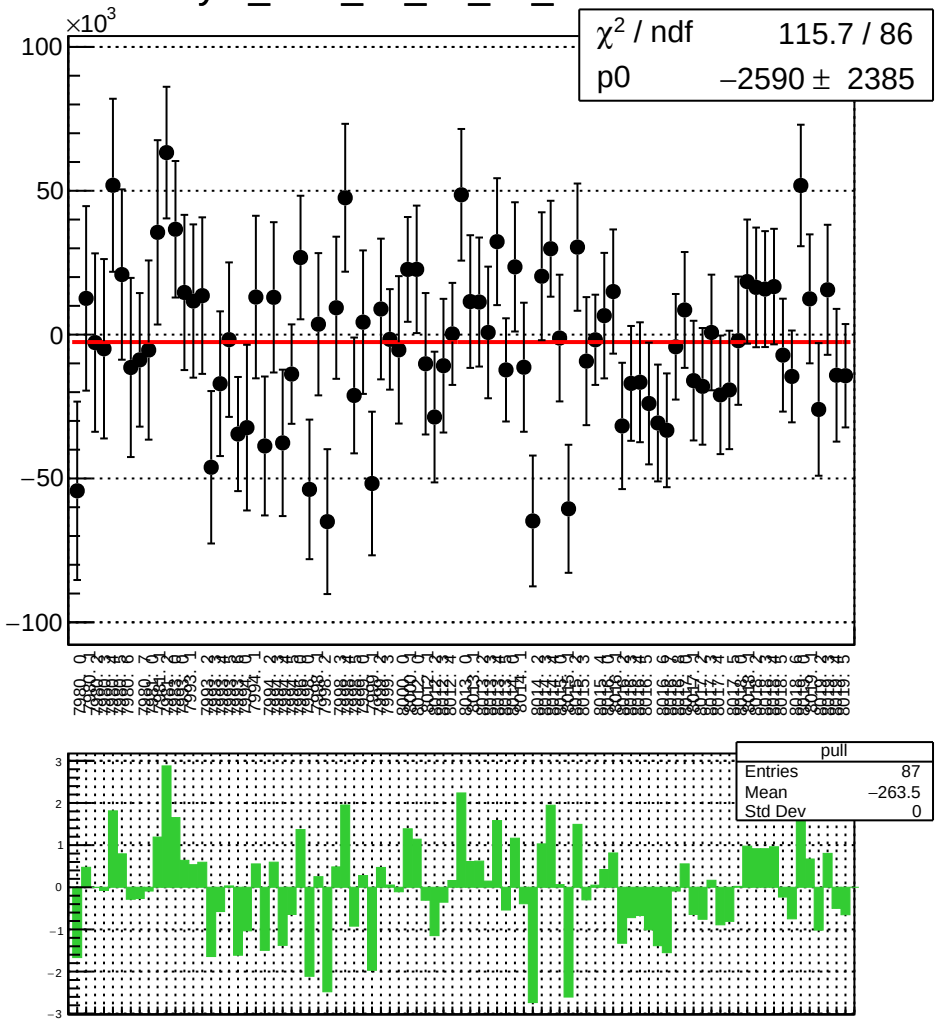

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 105.3 / 86
p0 136.9 ± 131.7
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 3.987
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.02096
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

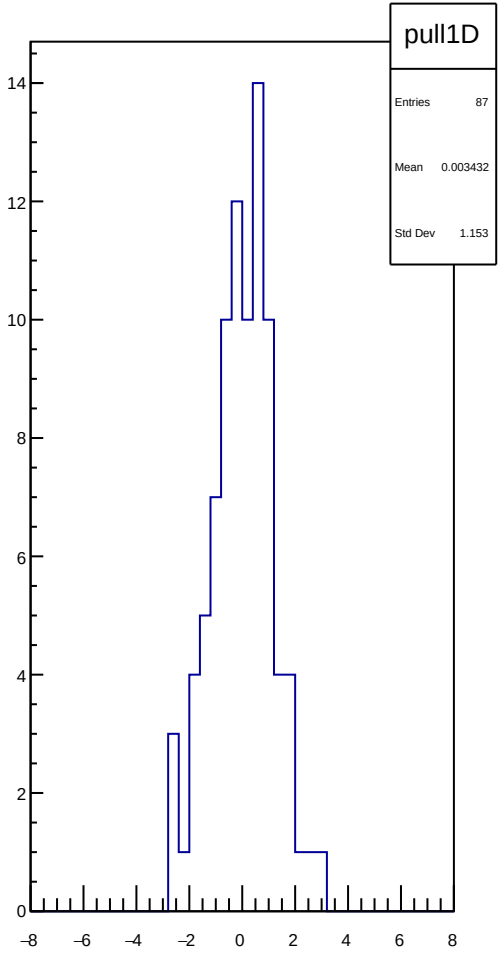

eigen_dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1.975e+05 / 86
p0 116.5 ± 0.09316
260
240
220
200
180
160
140
120
100
80

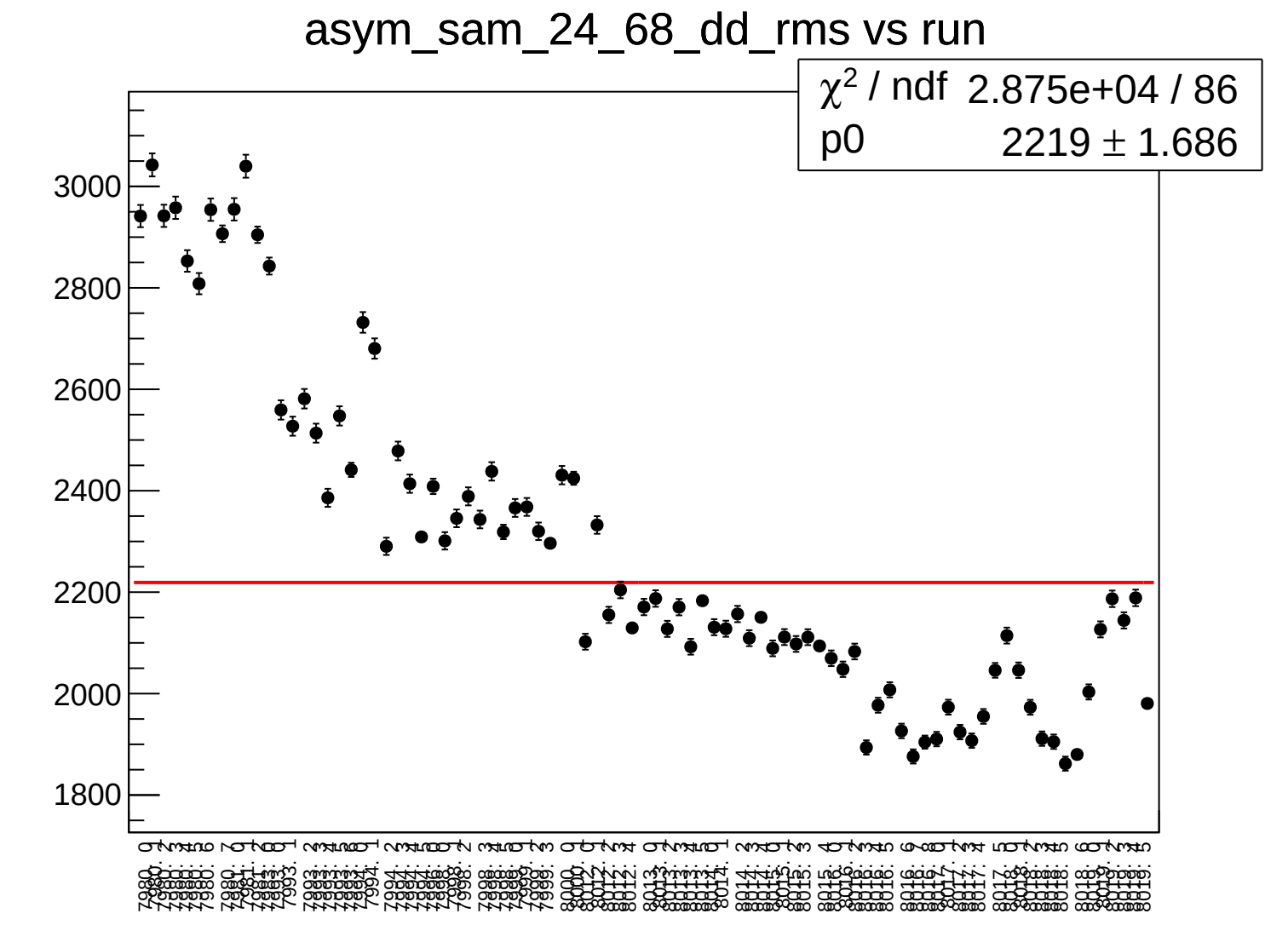

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 115.6 / 86
p0 2435 ± 2431
pull
Entries 87
Mean 390.9
Std Dev 0

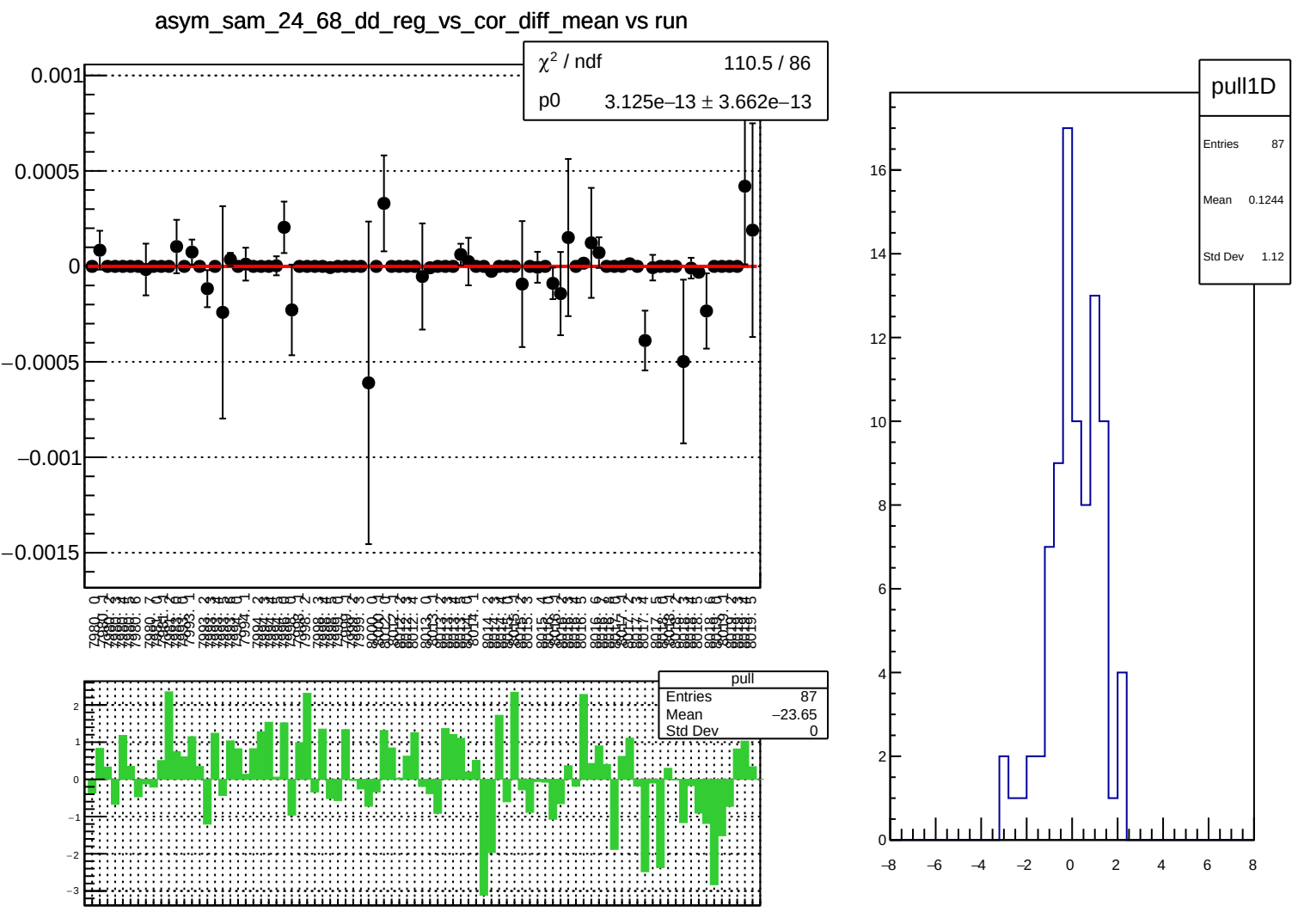

pull1D
Entries 87
Mean 0.003619
Std Dev 1.153

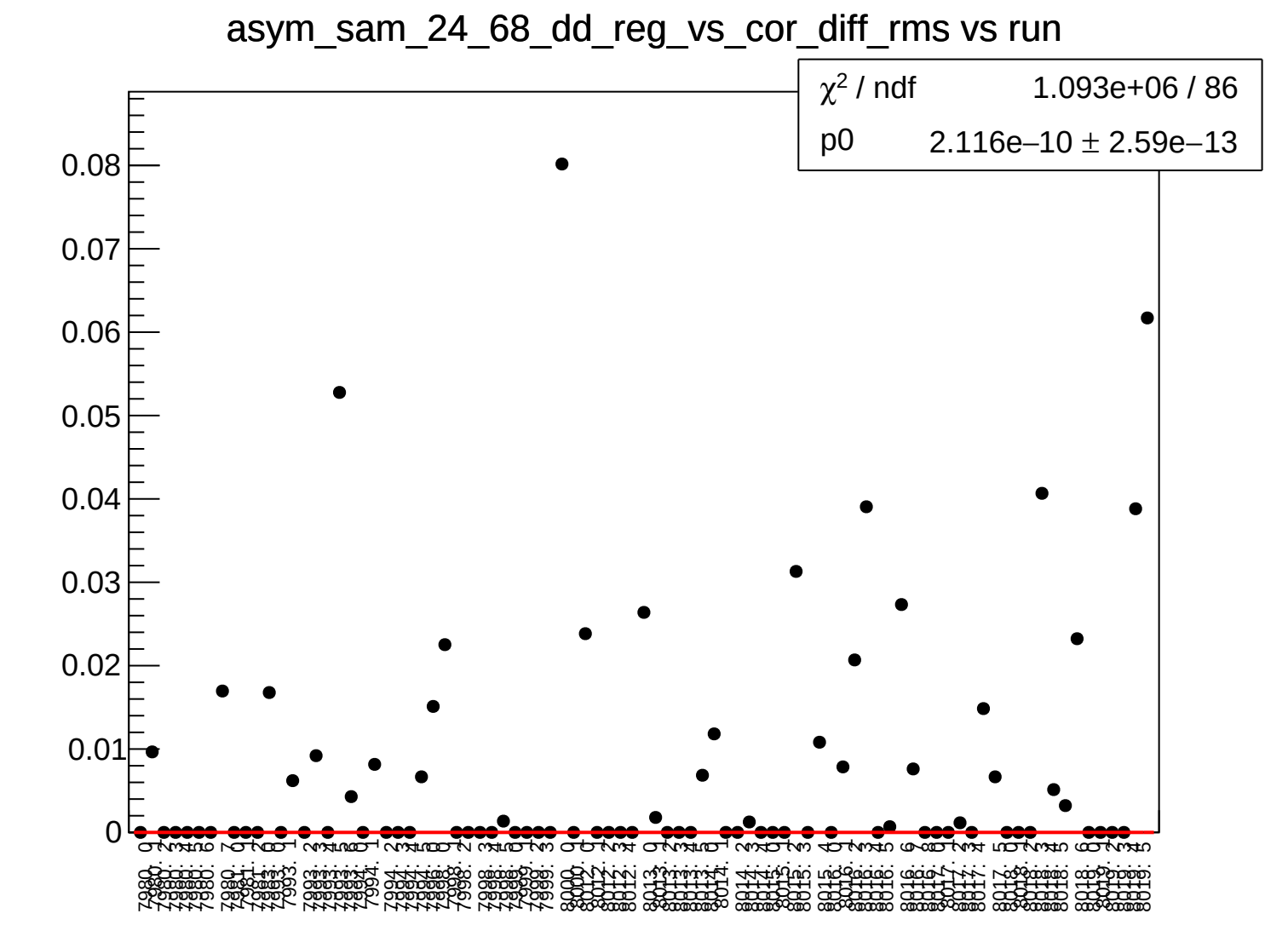

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.98e+04 / 86
p0 2261 ± 1.719
3000
2800
2600
2400
2200
2000
1800

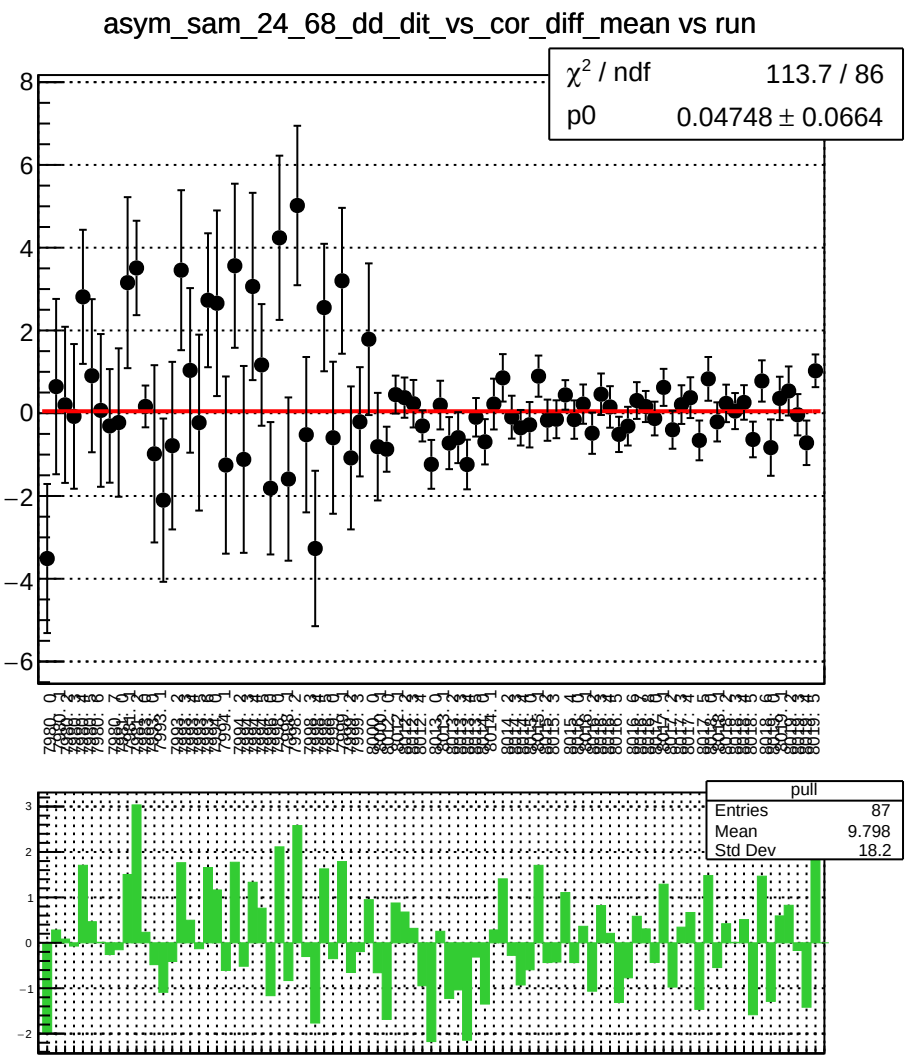

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 115.7 / 86
p0 −2590 ± 2385
pull
Entries 87
Mean −263.5
Std Dev 0

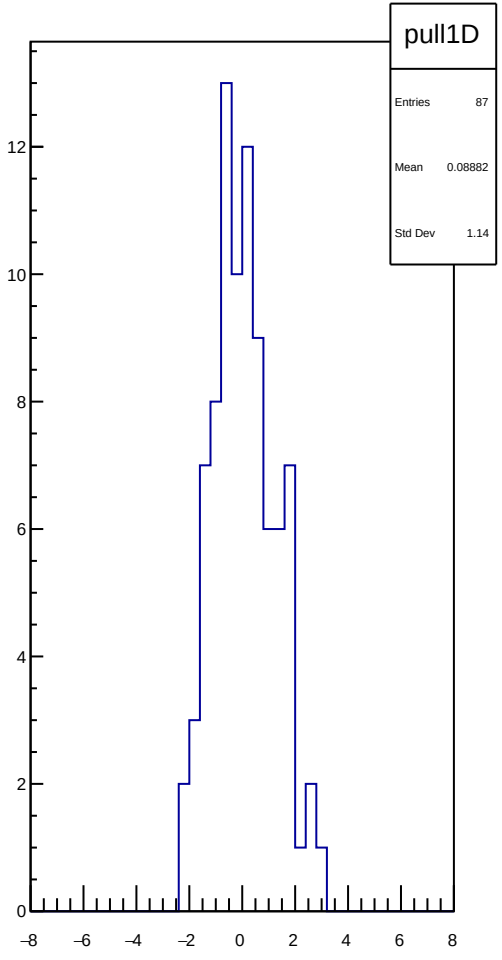

pull1D
Entries 87
Mean 0.003432
Std Dev 1.153

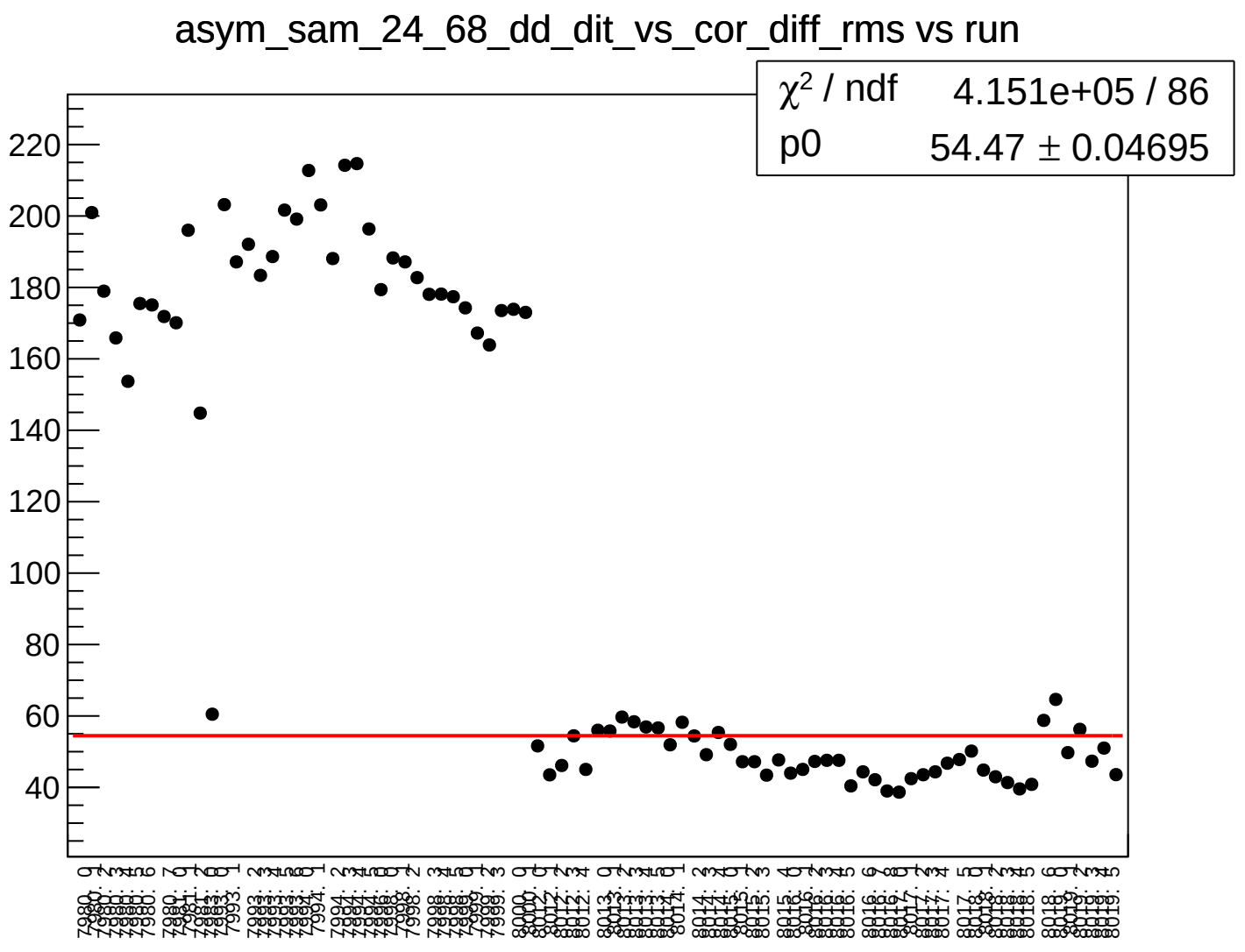

asym_sam_24_68_dd_rms vs run
χ^2 / ndf 2.875e+04 / 86
p0 2219 ± 1.686
3000
2800
2600
2400
2200
2000
1800

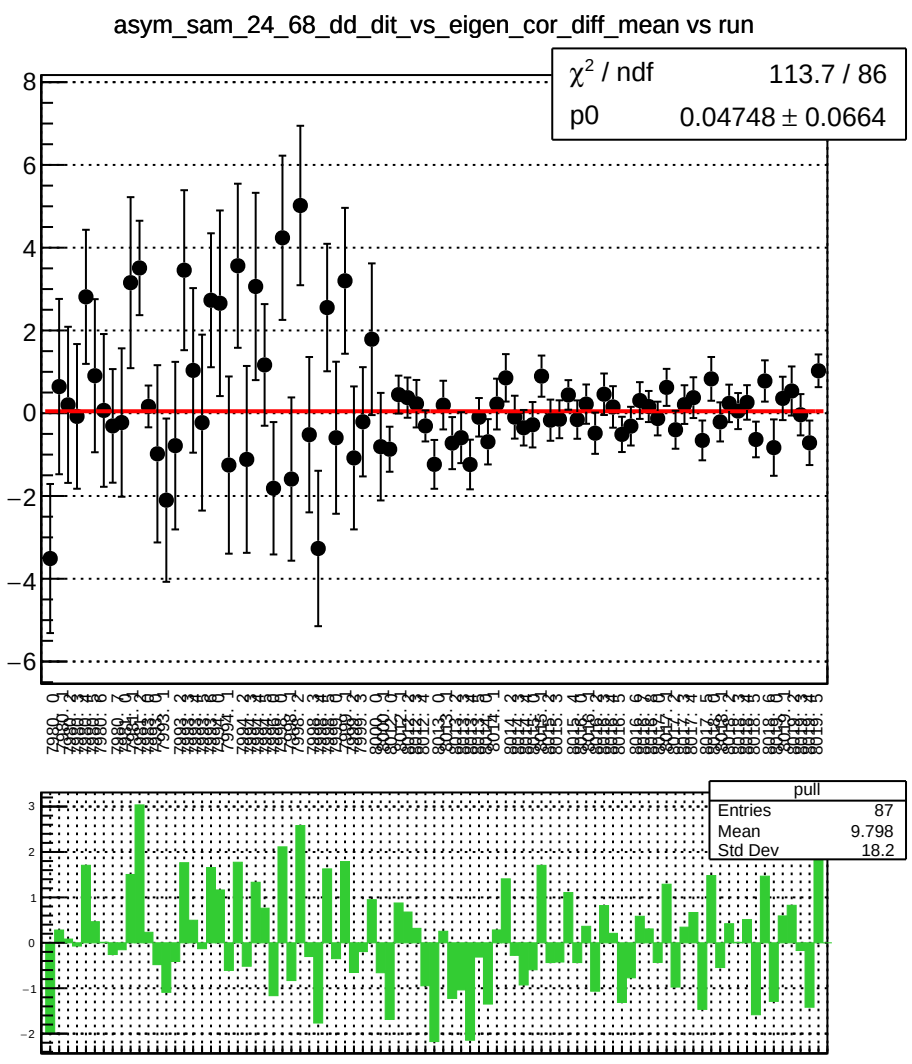

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 110.5 / 86
p0 3.125e−13 ± 3.662e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 87
Mean −23.65
Std Dev 0
pull1D
Entries 87
Mean 0.1244
Std Dev 1.12

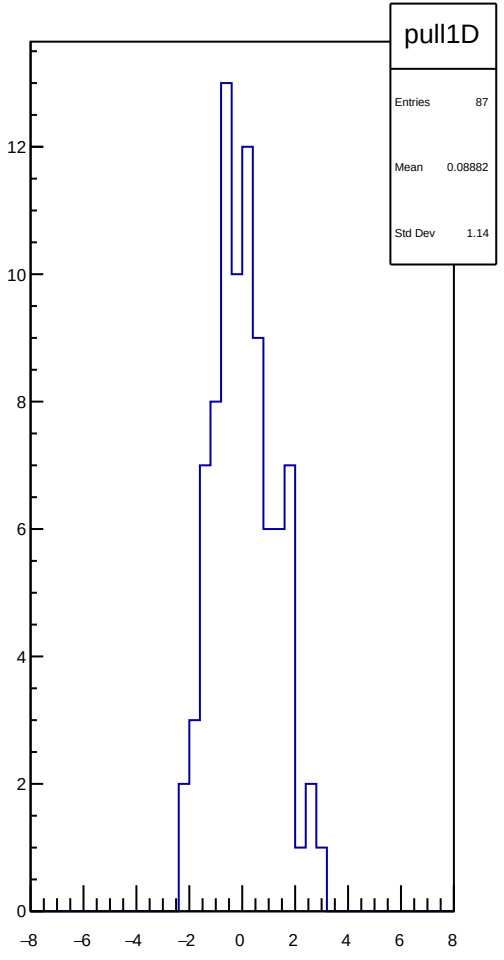

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.093e+06 / 86
p0 2.116e−10 ± 2.59e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

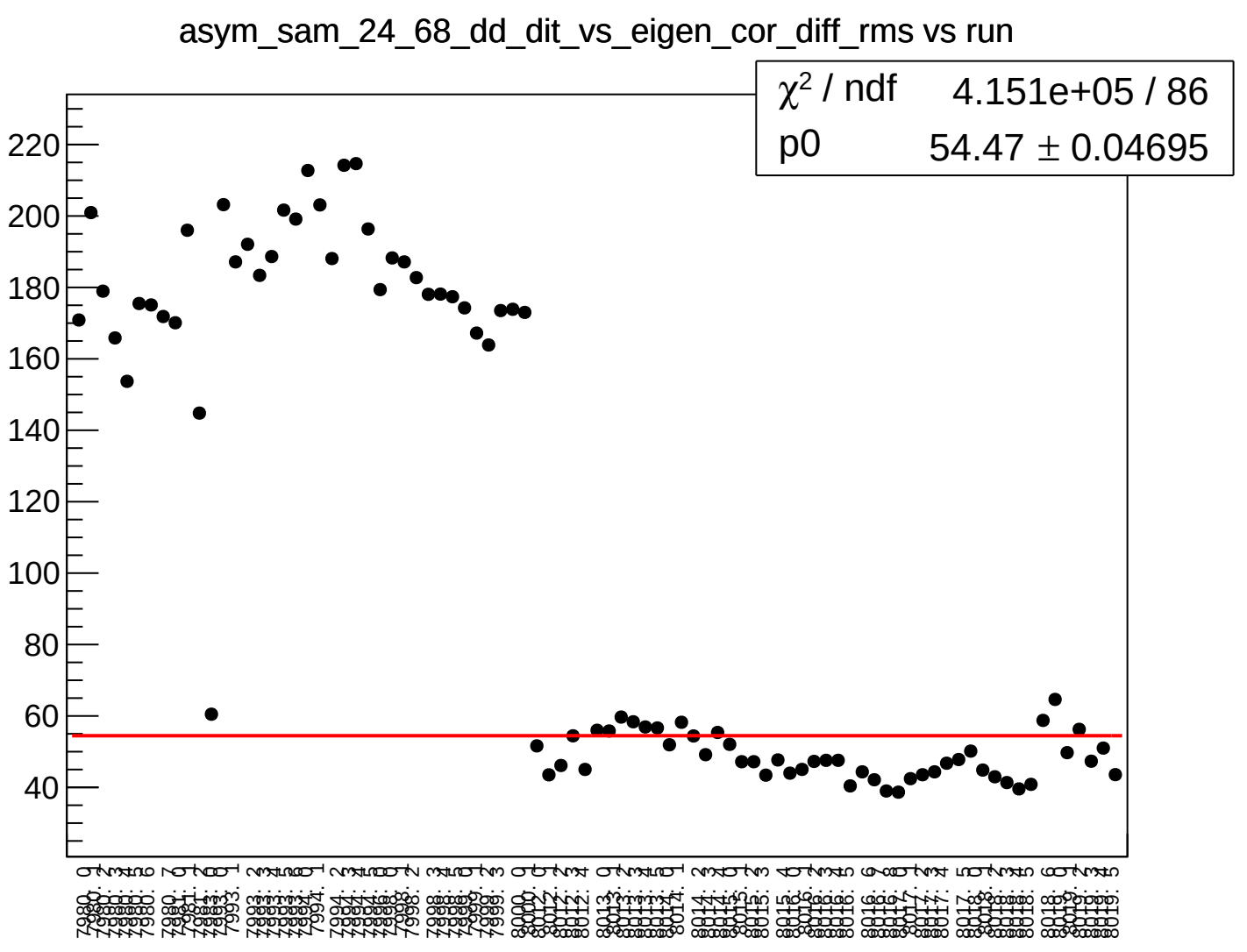

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.7 / 86
p0 0.04748 ± 0.0664
pull
Entries 87
Mean 9.798
Std Dev 18.2

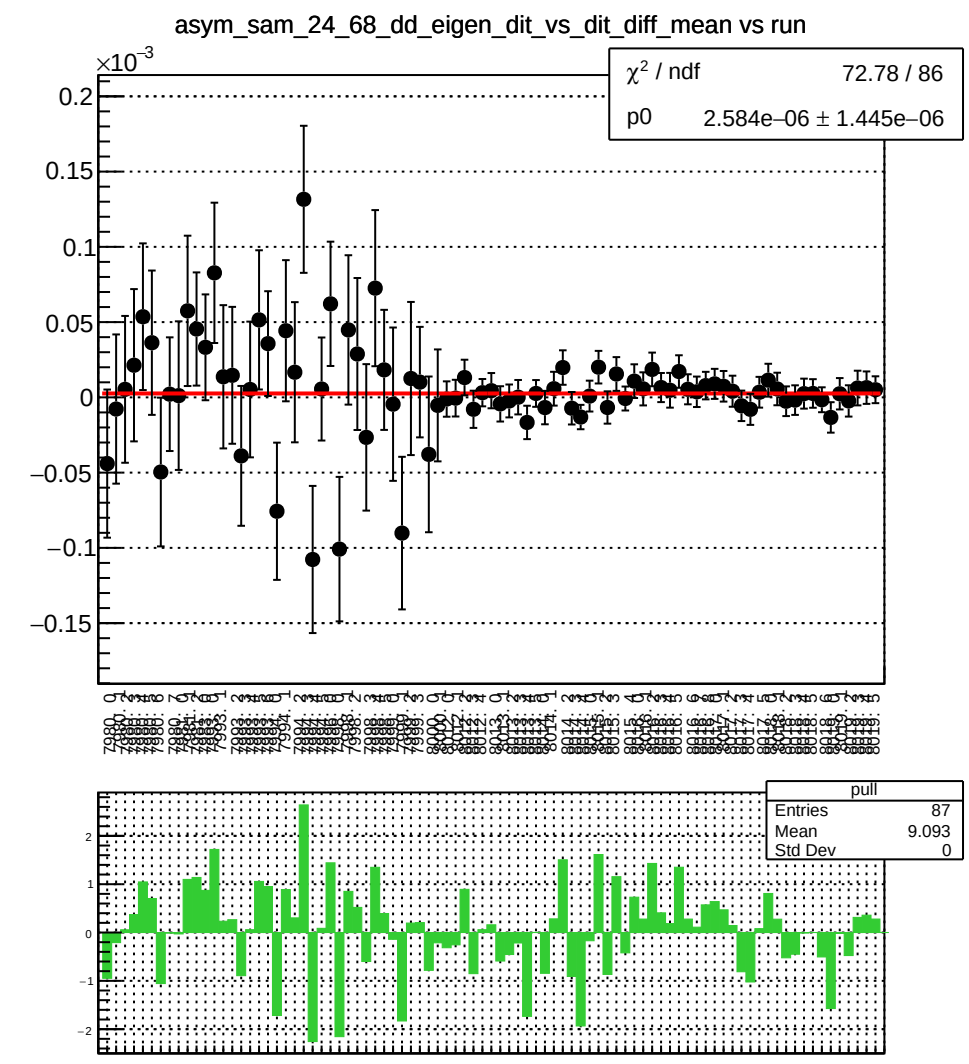

pull1D
Entries 87
Mean 0.08882
Std Dev 1.14

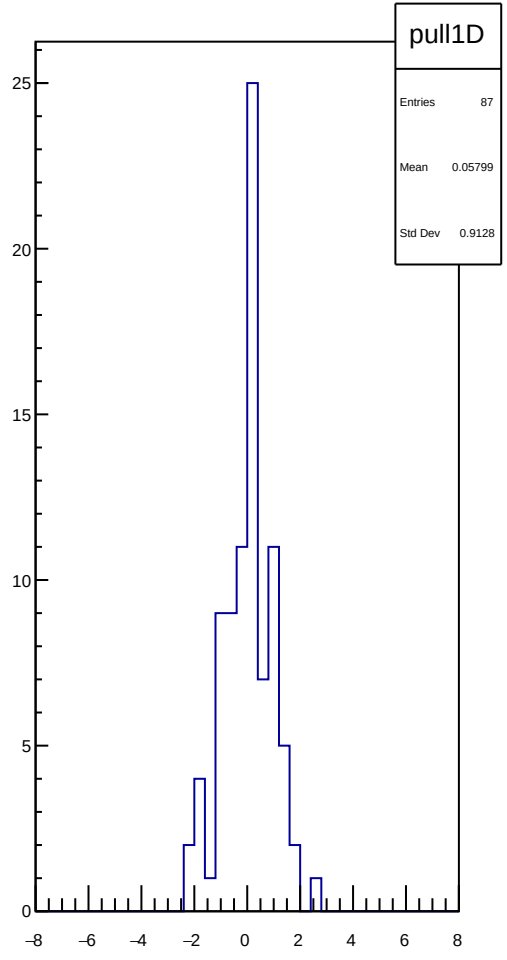

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.151e+05 / 86
p0 54.47 ± 0.04695
220
200
180
160
140
120
100
80
60
40

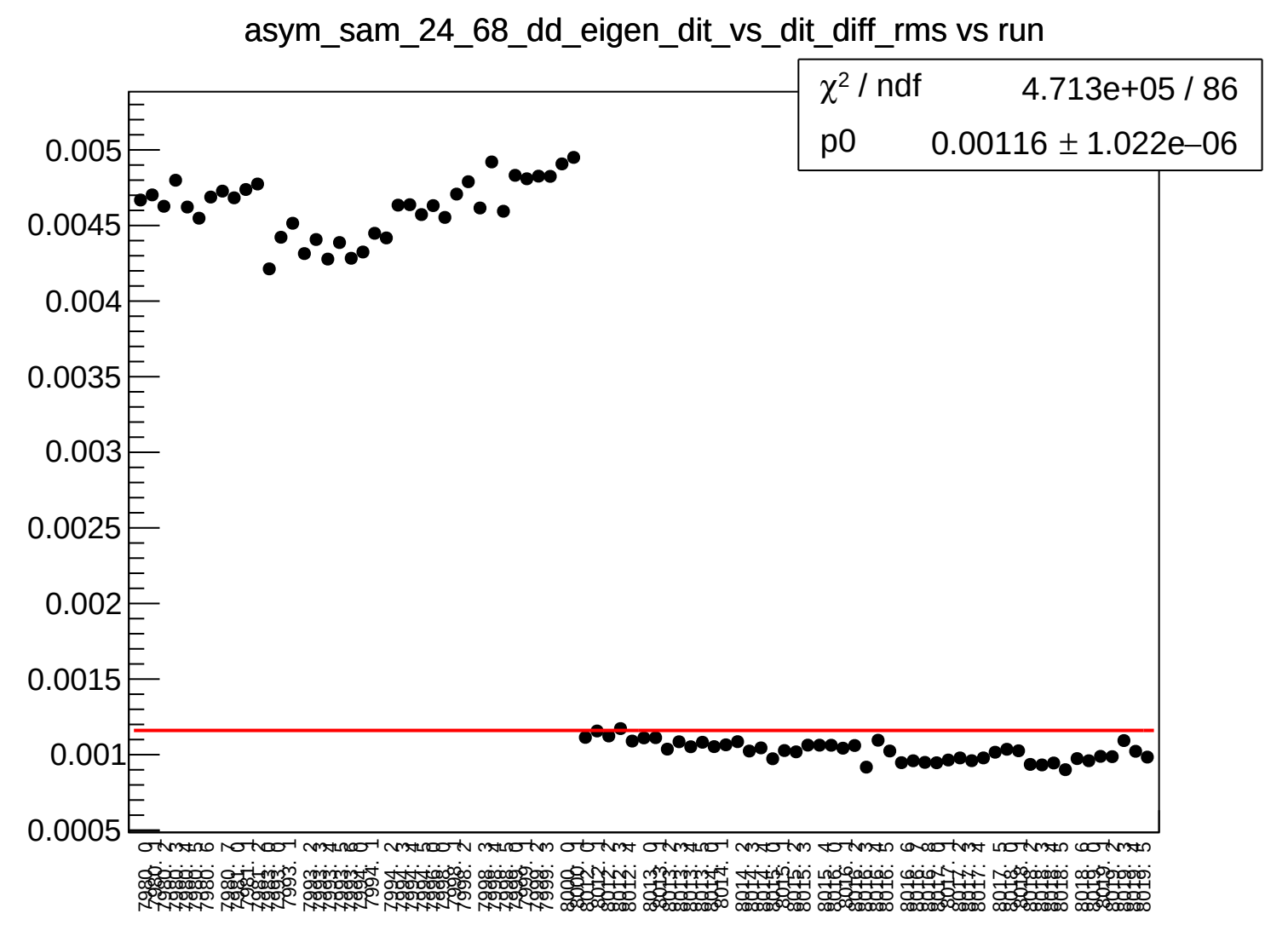

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.7 / 86
p0 0.04748 ± 0.0664
pull
Entries 87
Mean 9.798
Std Dev 18.2

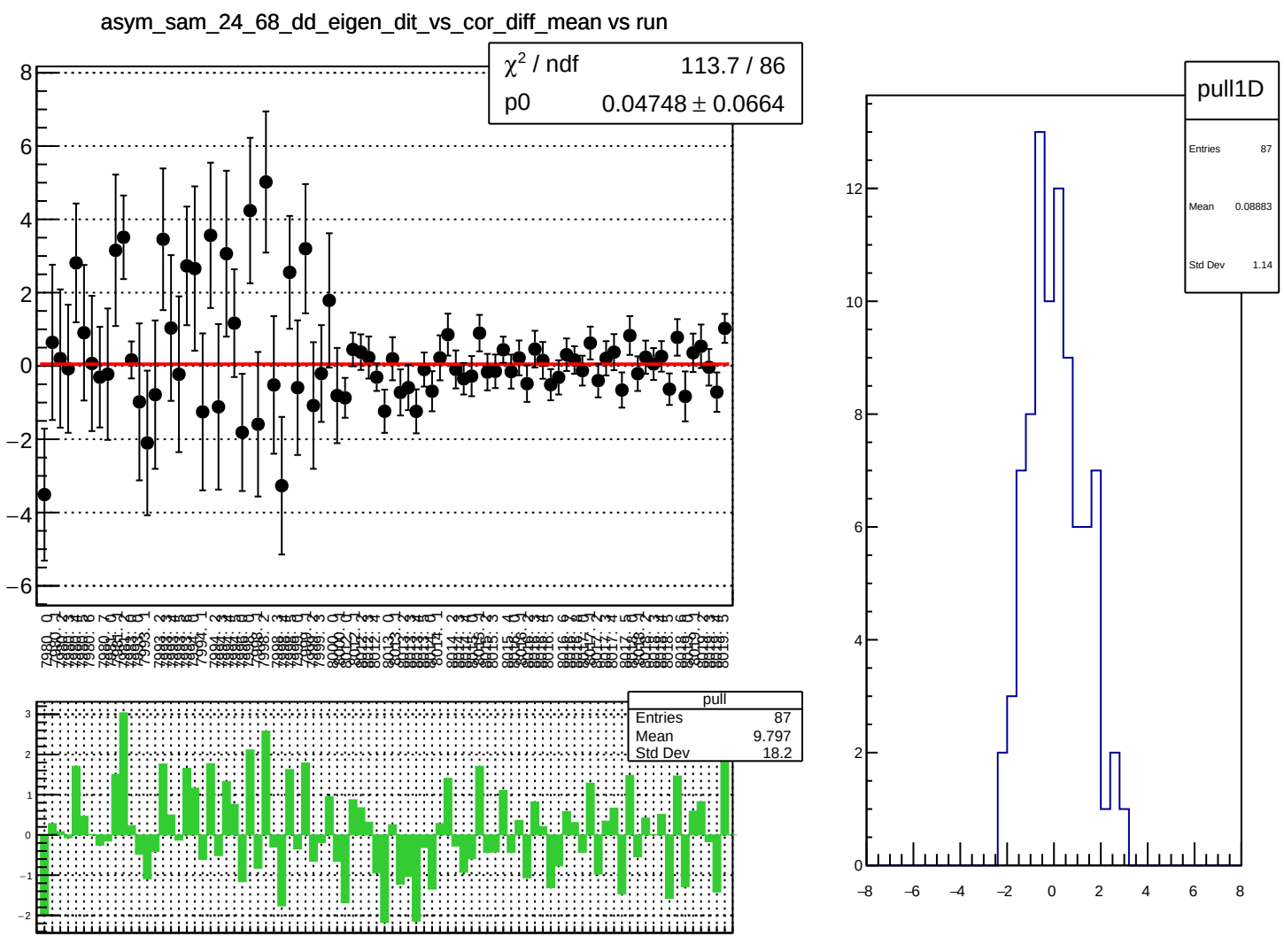

pull1D
Entries 87
Mean 0.08882
Std Dev 1.14

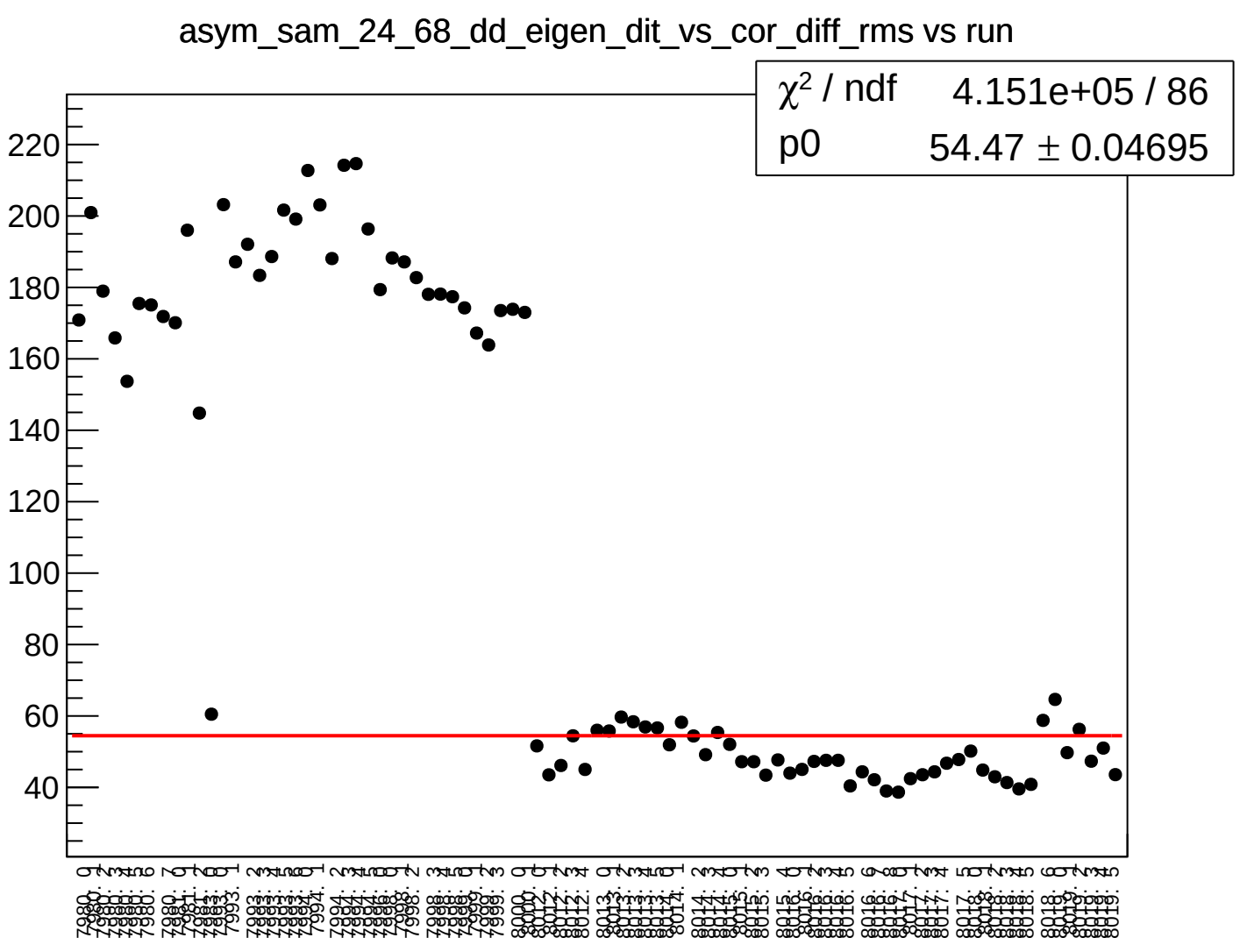

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.151e+05 / 86
p0 54.47 ± 0.04695
220
200
180
160
140
120
100
80
60
40

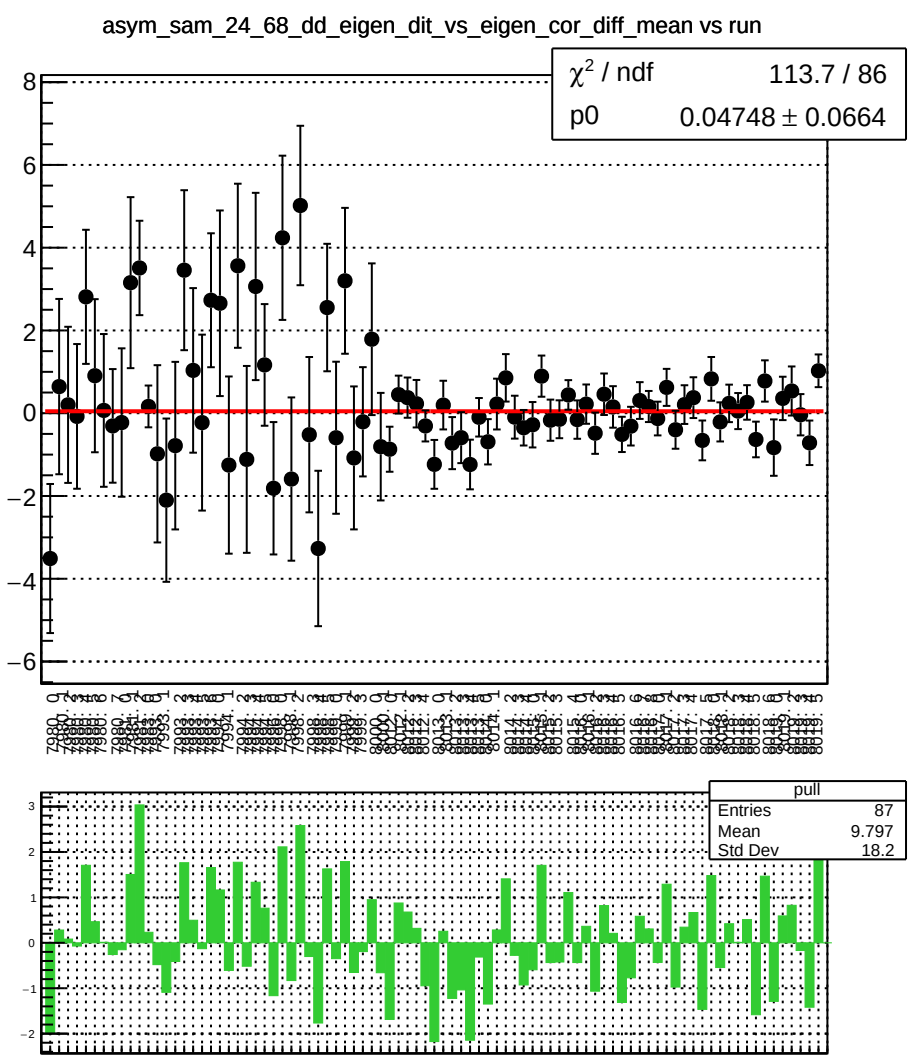

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.78 / 86
p0 2.584e−06 ± 1.445e−06
pull
Entries 87
Mean 9.093
Std Dev 0

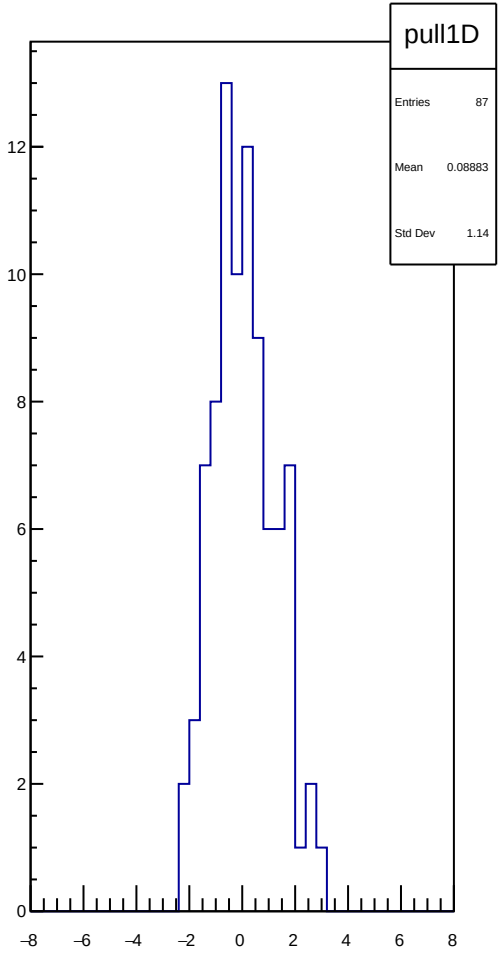

pull1D
Entries 87
Mean 0.05799
Std Dev 0.9128

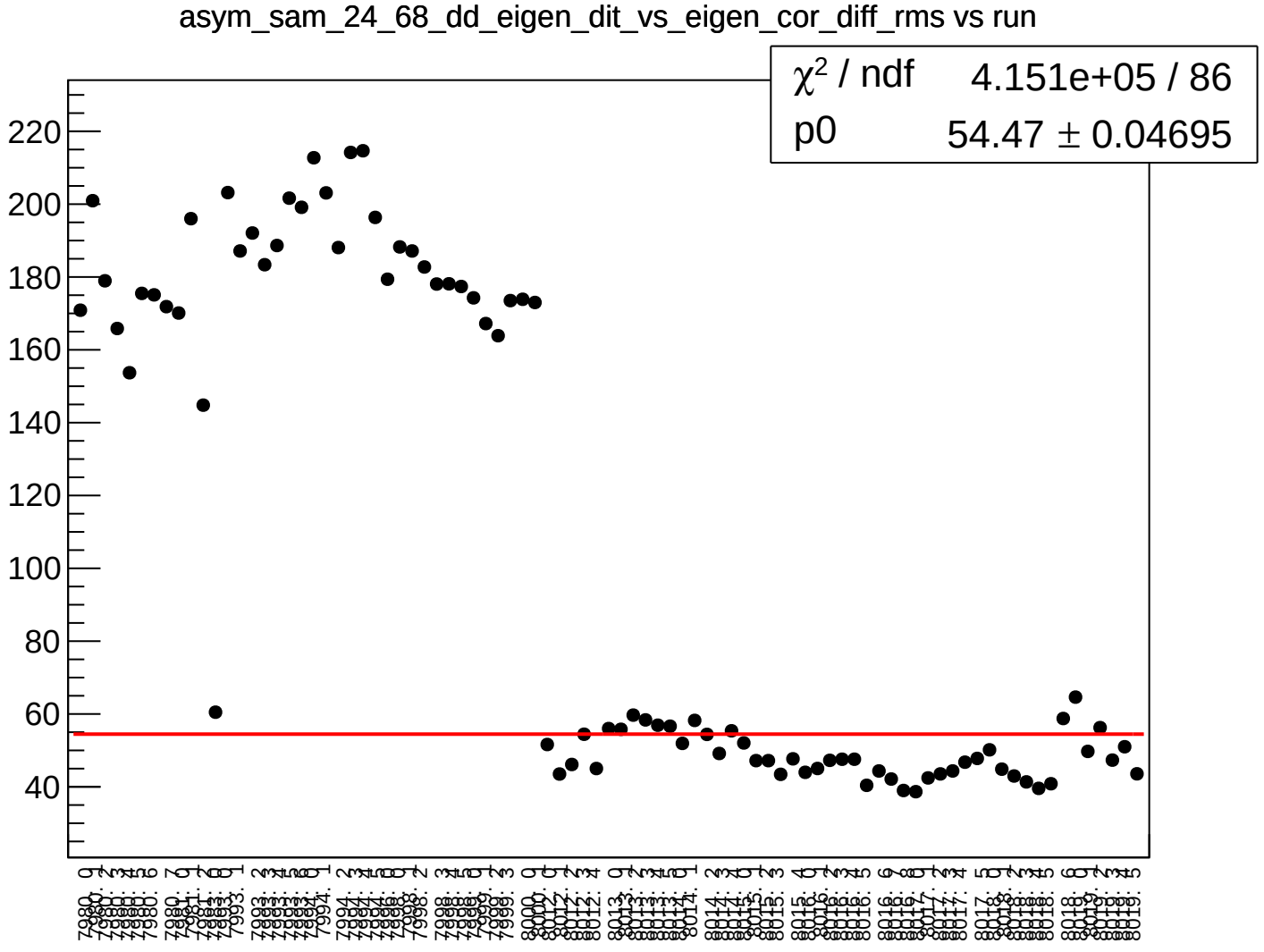

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.713e+05 / 86
p0 0.00116 ± 1.022e–06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

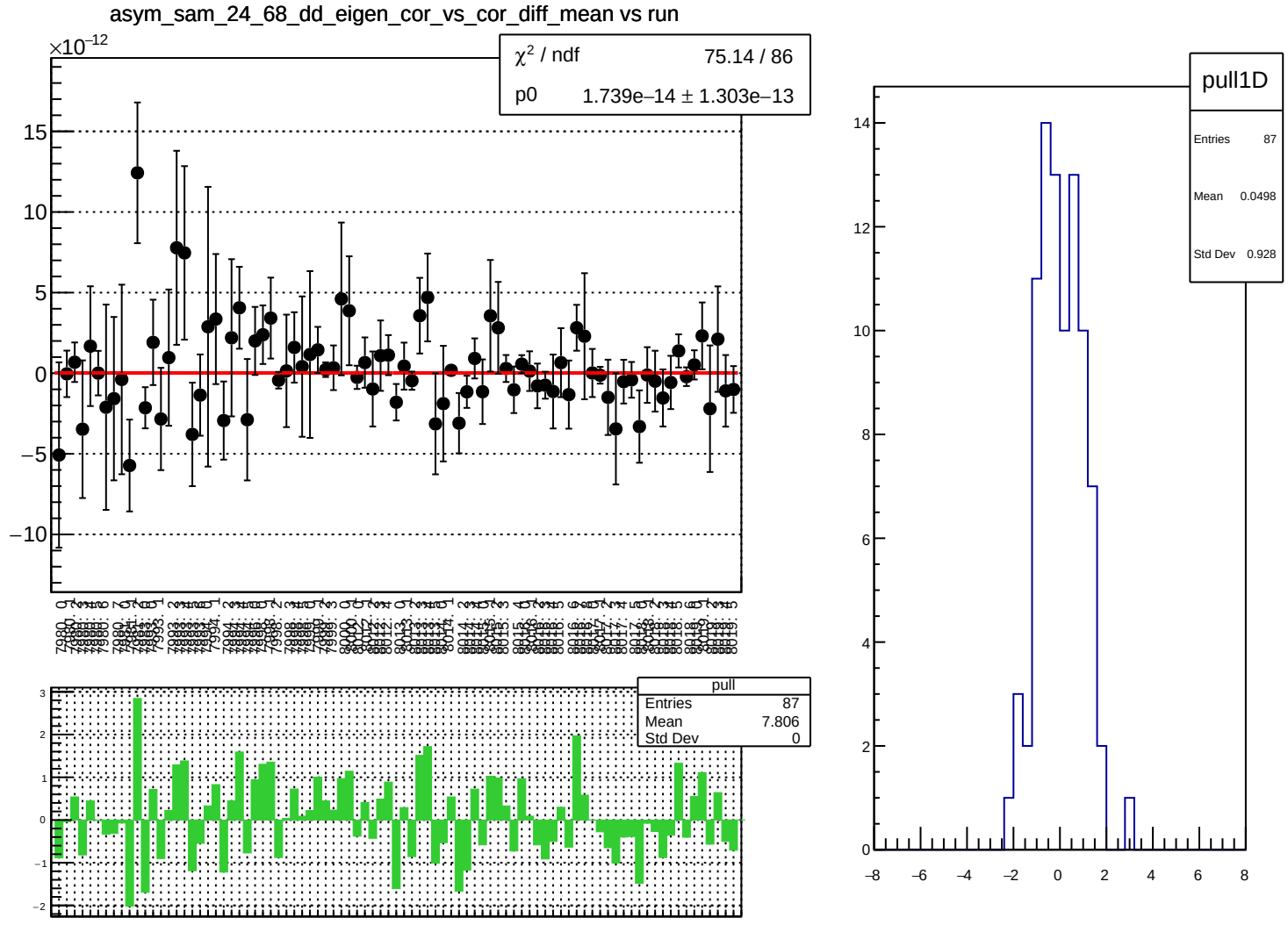

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.7 / 86
p0 0.04748 ± 0.0664
pull
Entries 87
Mean 9.797
Std Dev 18.2
pull1D
Entries 87
Mean 0.08883
Std Dev 1.14

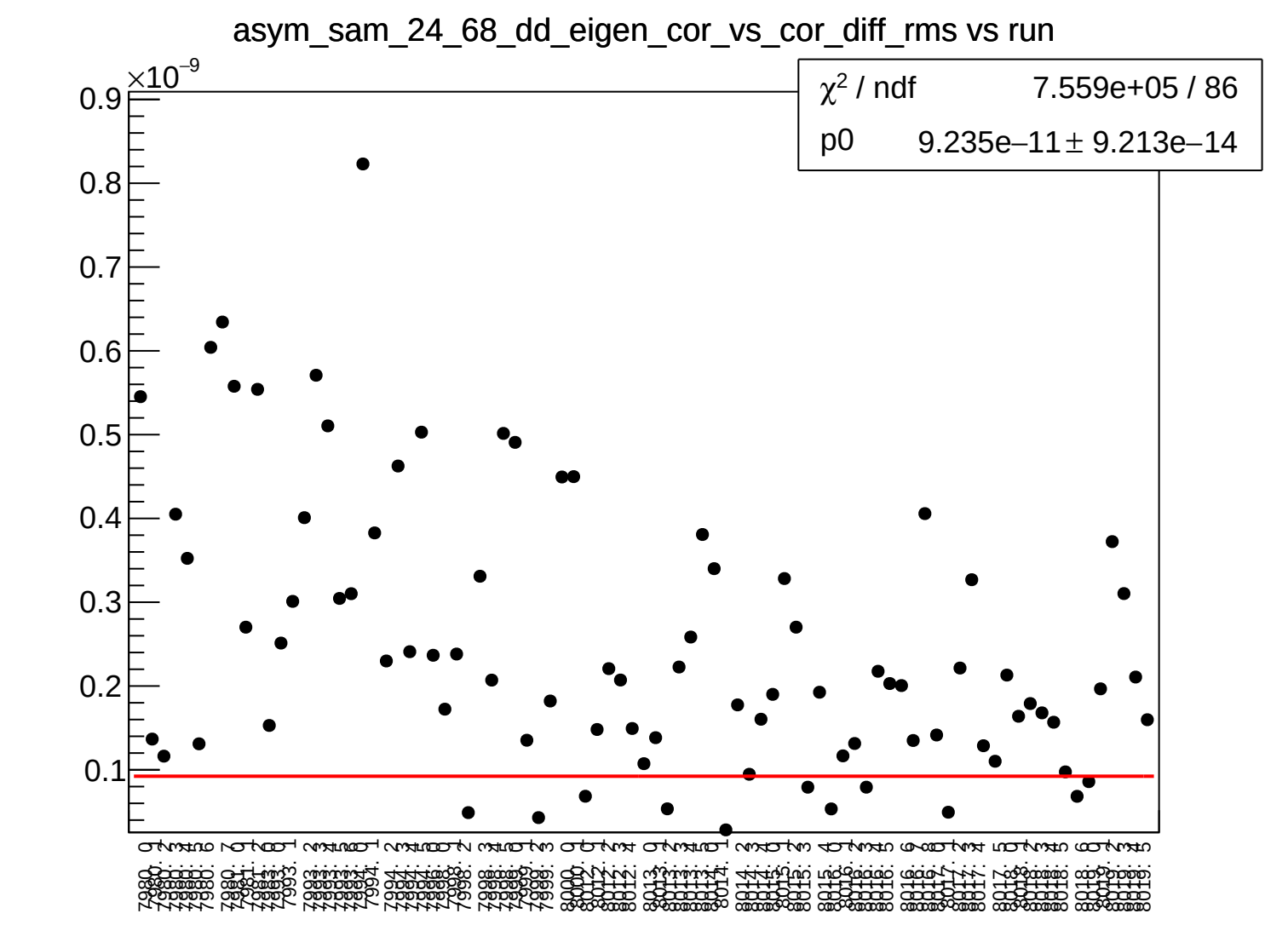

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.151e+05 / 86
p0 54.47 ± 0.04695
220
200
180
160
140
120
100
80
60
40

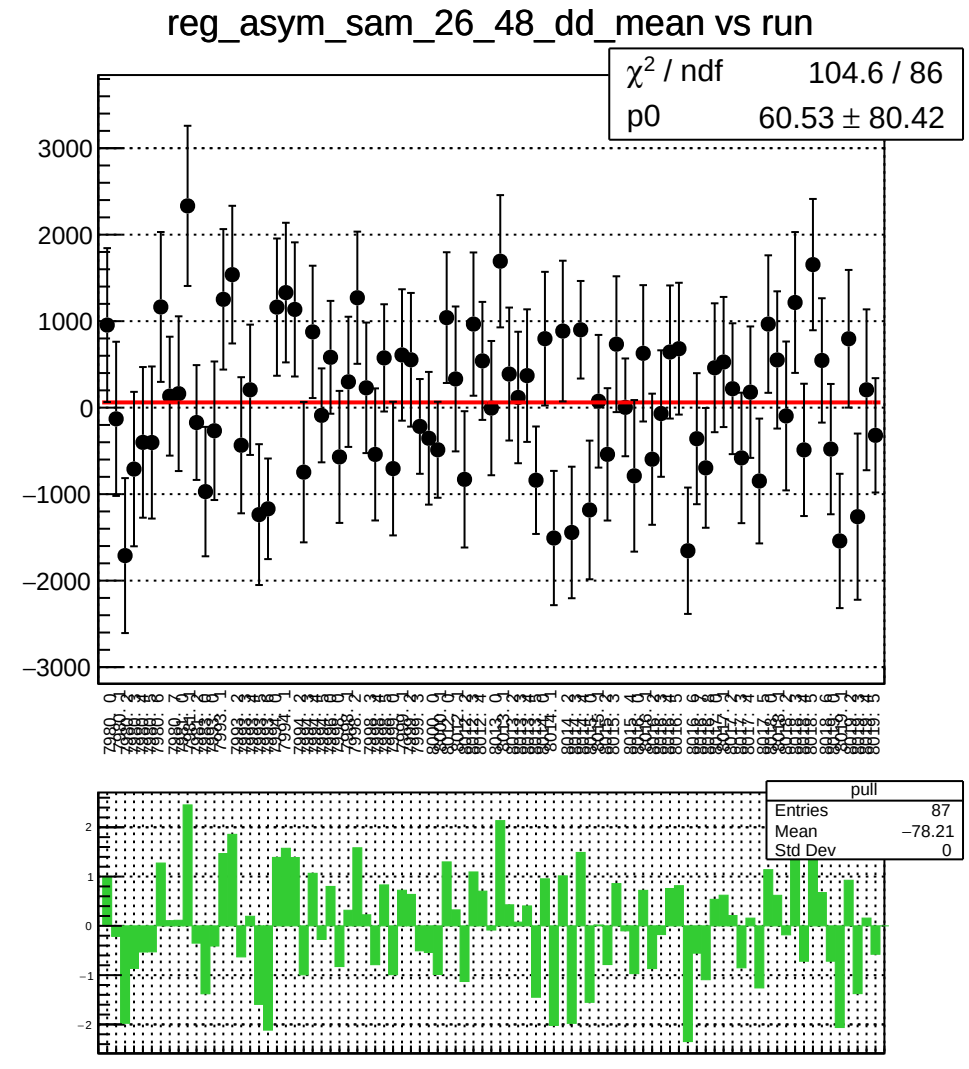

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.7 / 86
p0 0.04748 ± 0.0664
pull
Entries 87
Mean 9.797
Std Dev 18.2

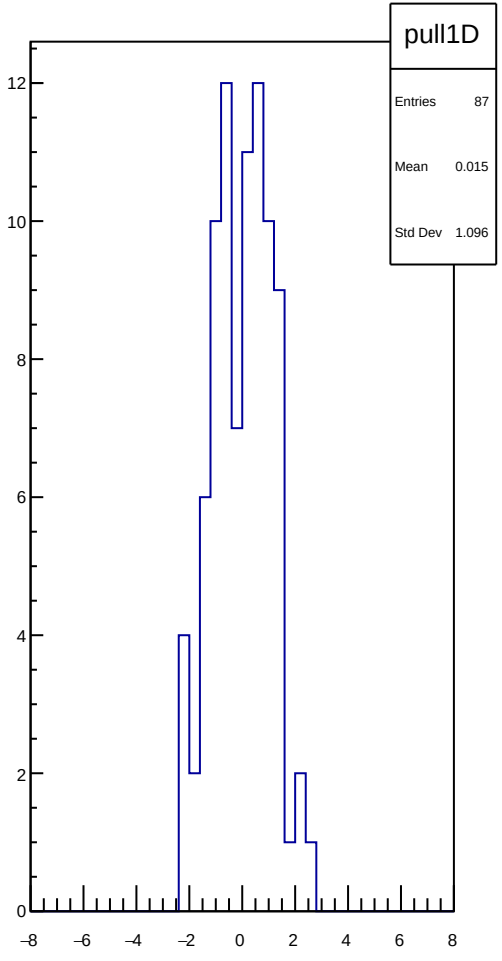

pull1D
Entries 87
Mean 0.08883
Std Dev 1.14

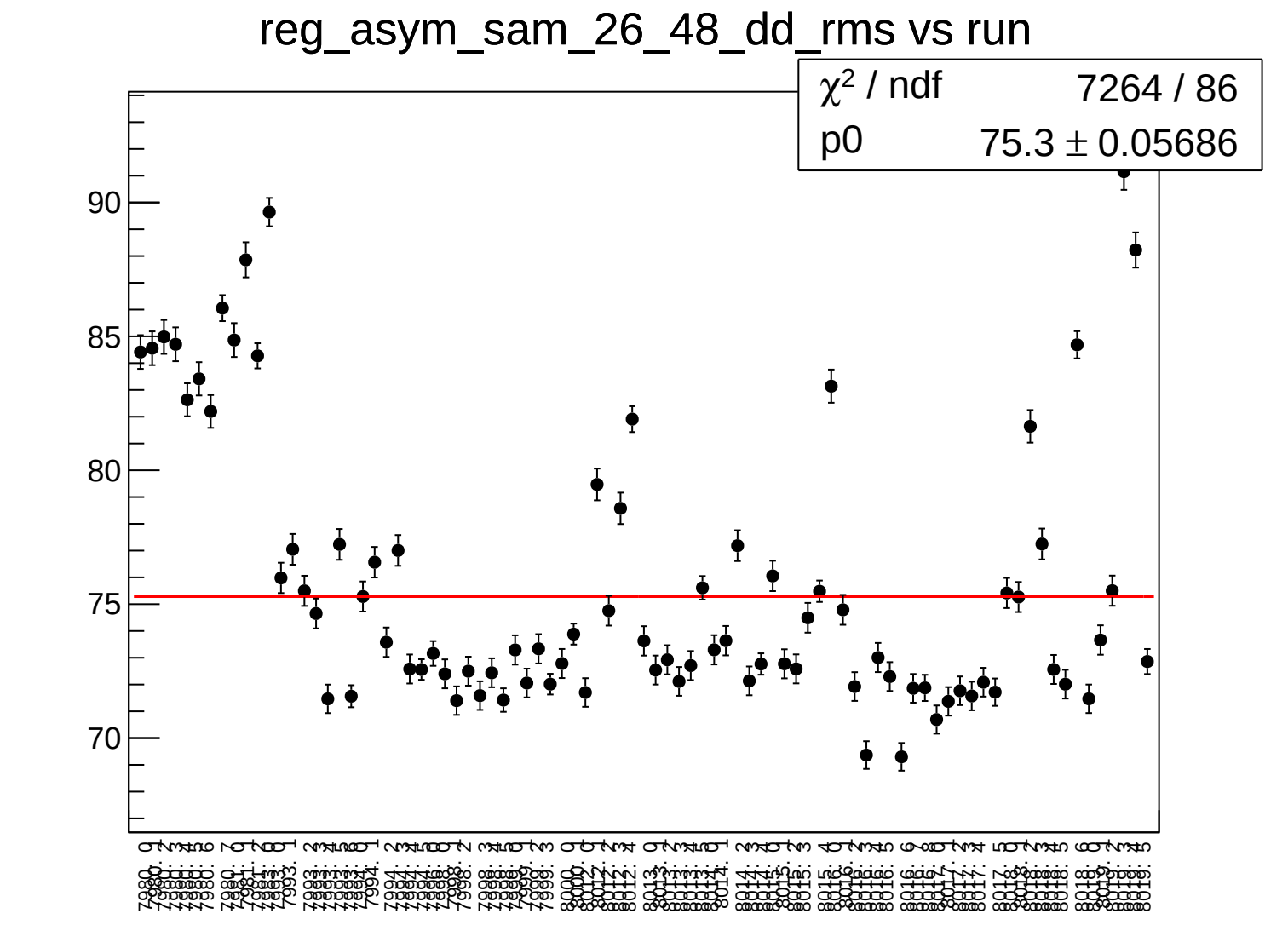

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.151e+05 / 86
p0 54.47 ± 0.04695
220
200
180
160
140
120
100
80
60
40

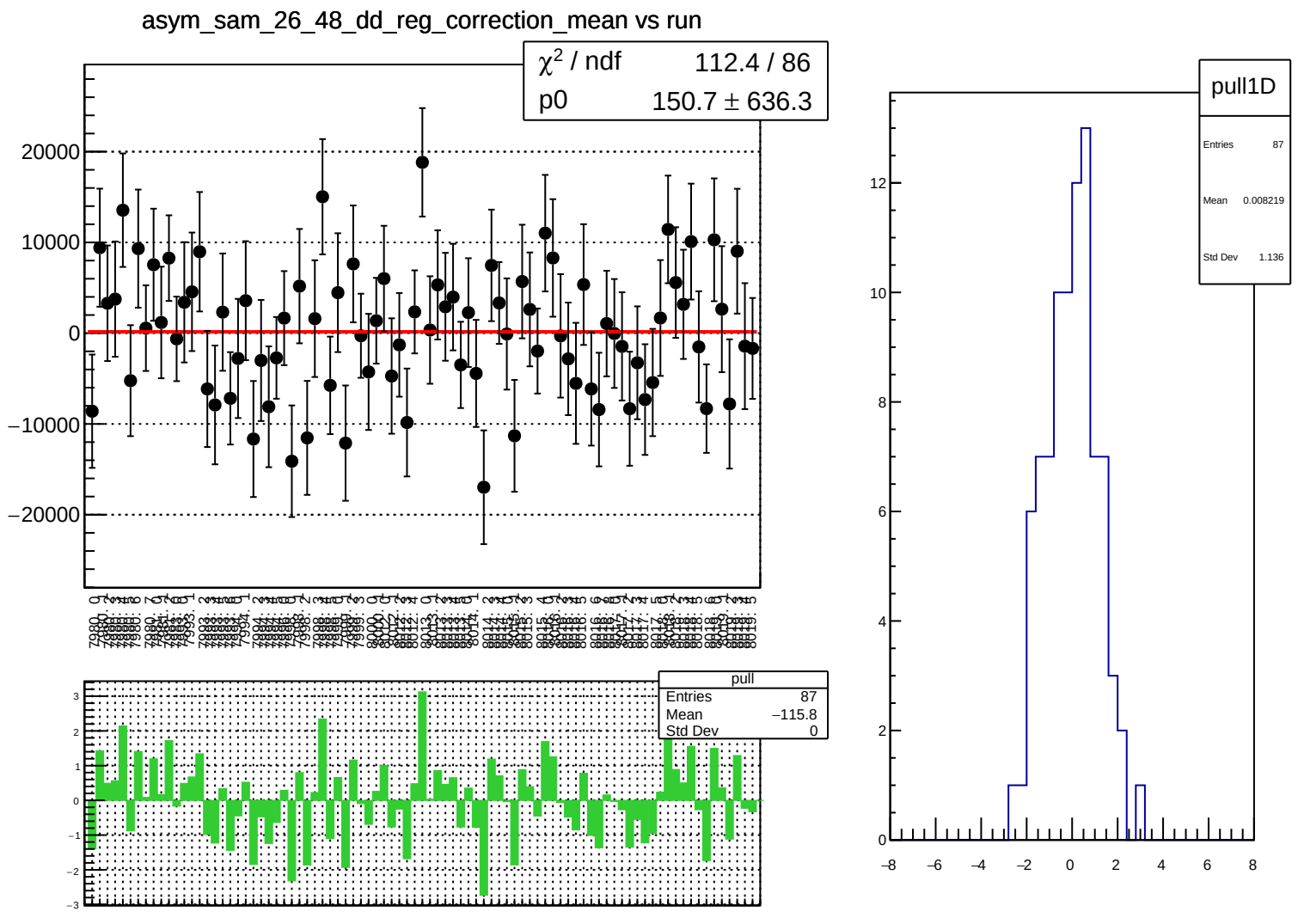

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.14 / 86
p0 1.739e−14 ± 1.303e−13
15
10
5
0
−5
−10
pull
Entries 87
Mean 7.806
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.0498
Std Dev 0.928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

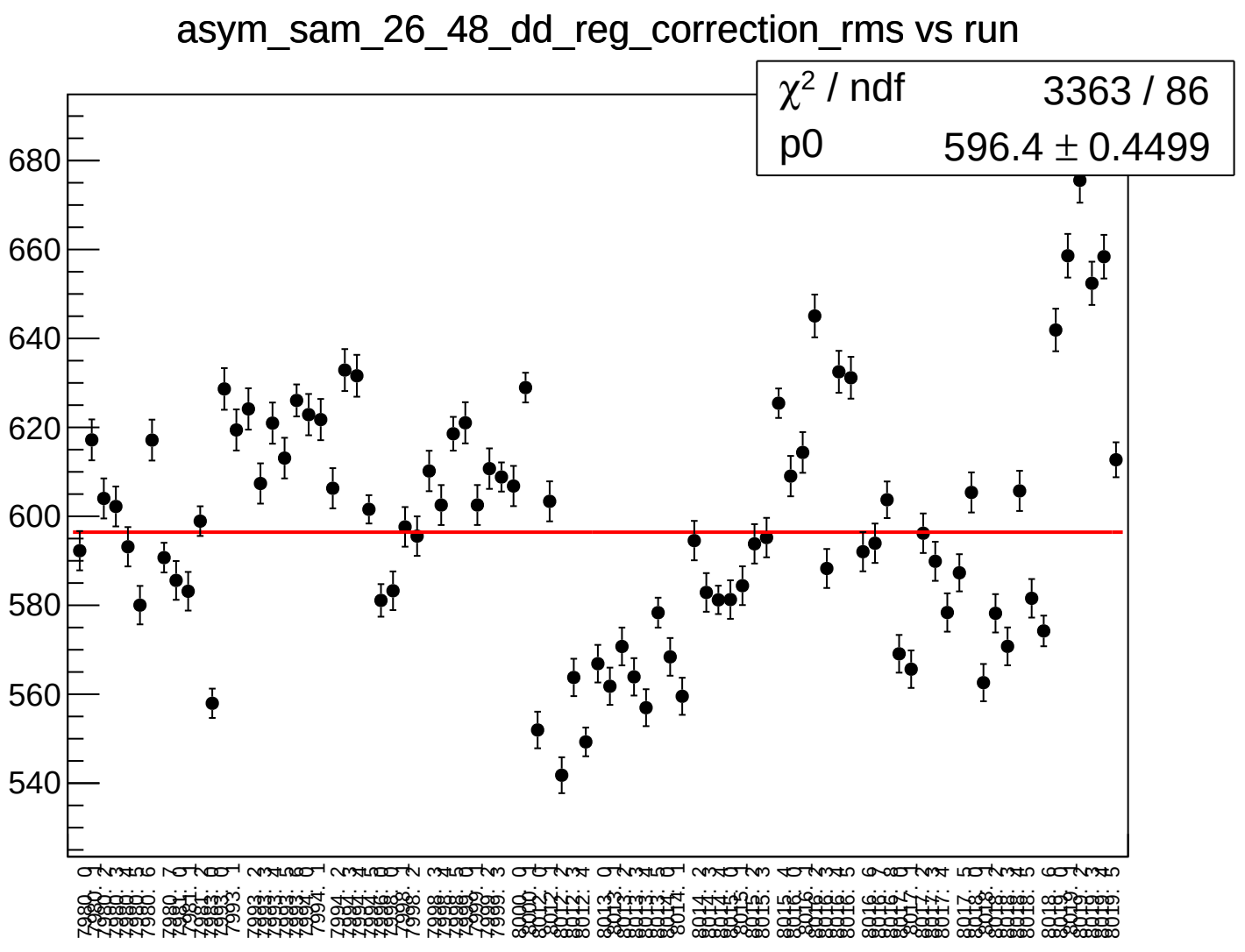

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 7.559e+05 / 86
p0 9.235e−11 ± 9.213e−14

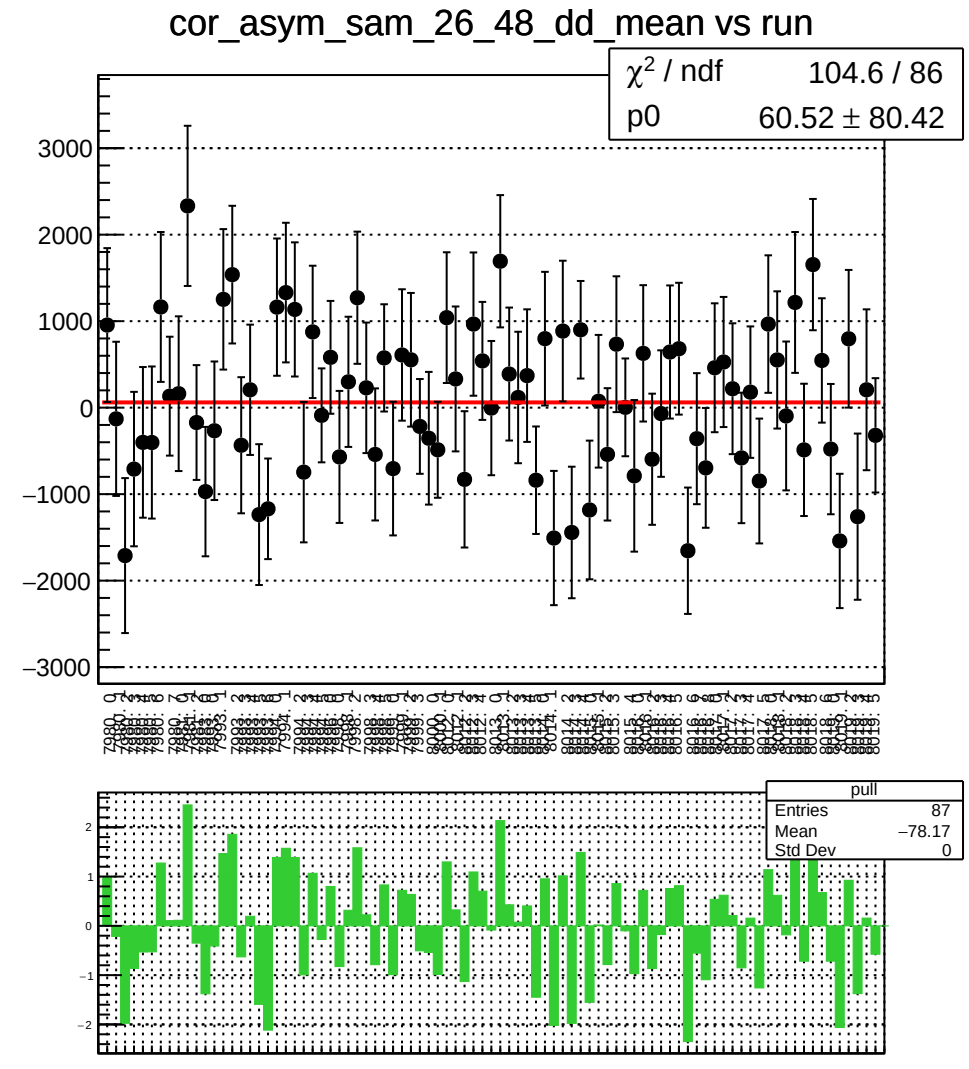

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 104.6 / 86
p0 60.53 ± 80.42
pull
Entries 87
Mean −78.21
Std Dev 0

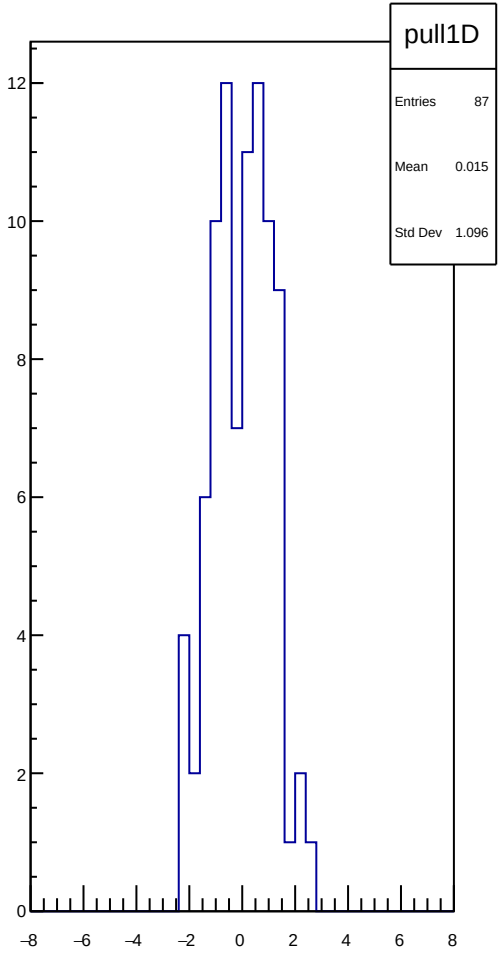

pull1D
Entries 87
Mean 0.015
Std Dev 1.096

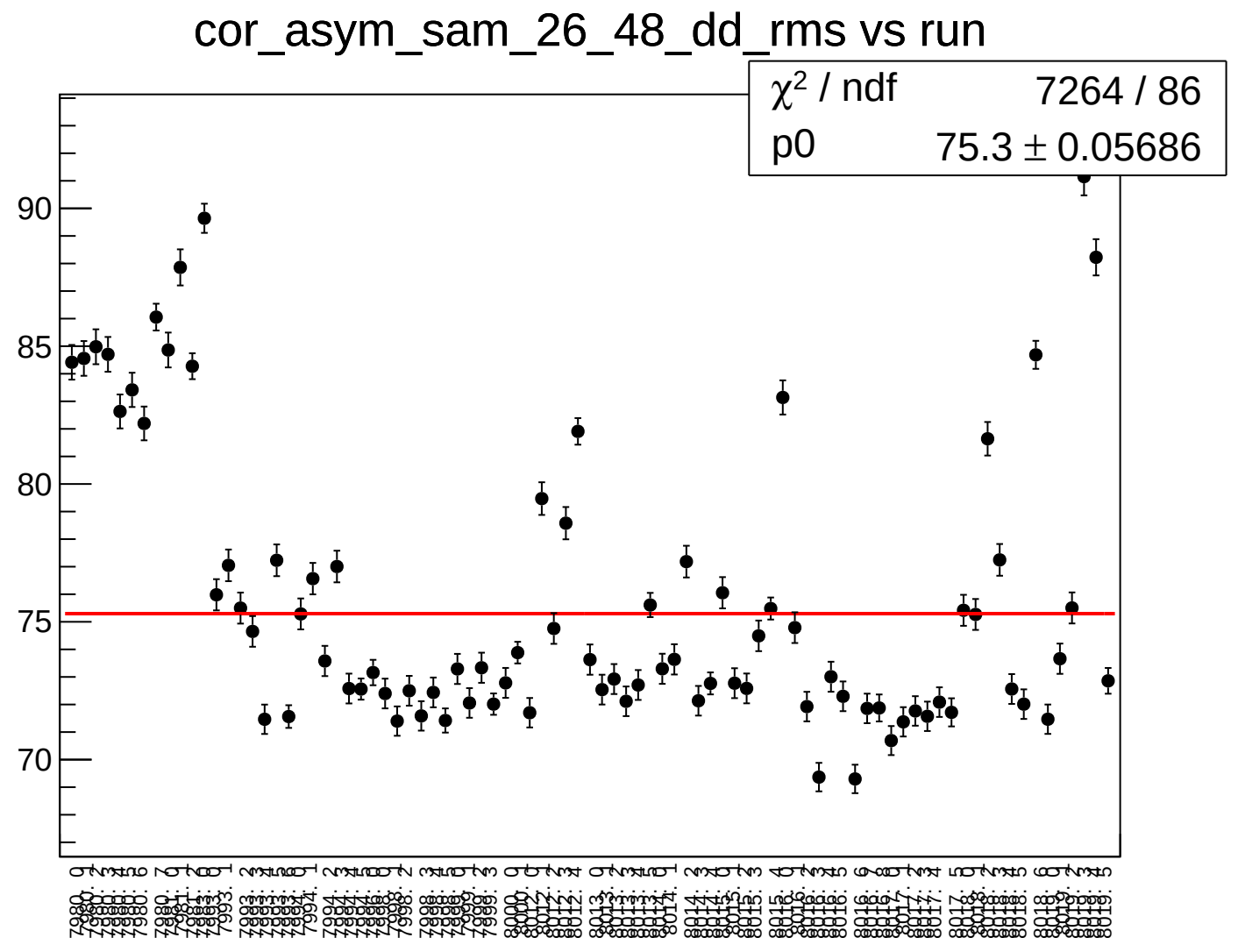

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 7264 / 86
p0 75.3 ± 0.05686
90
85
80
75
70

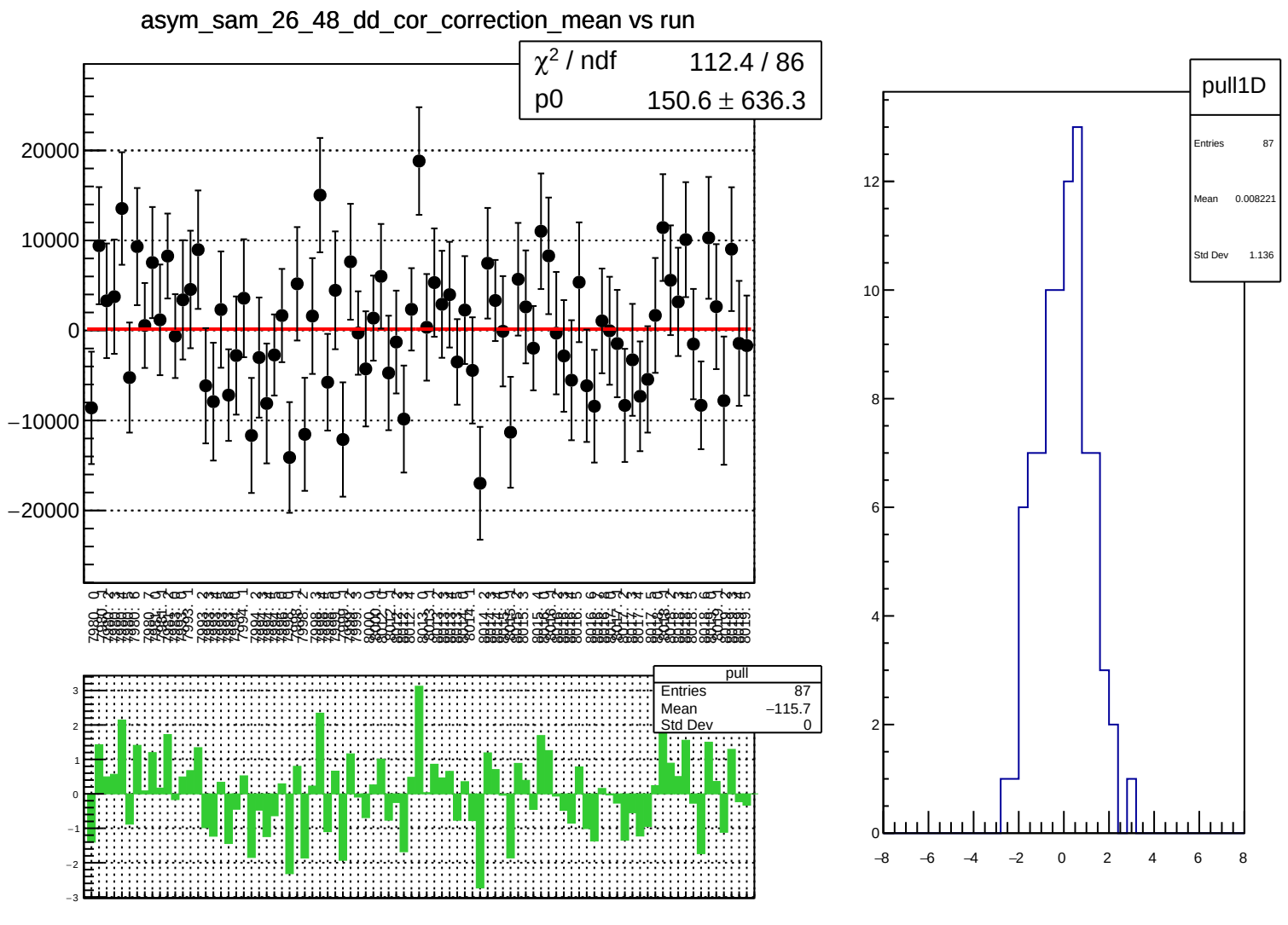

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 112.4 / 86
p0 150.7 ± 636.3
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −115.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.008219
Std Dev 1.136
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

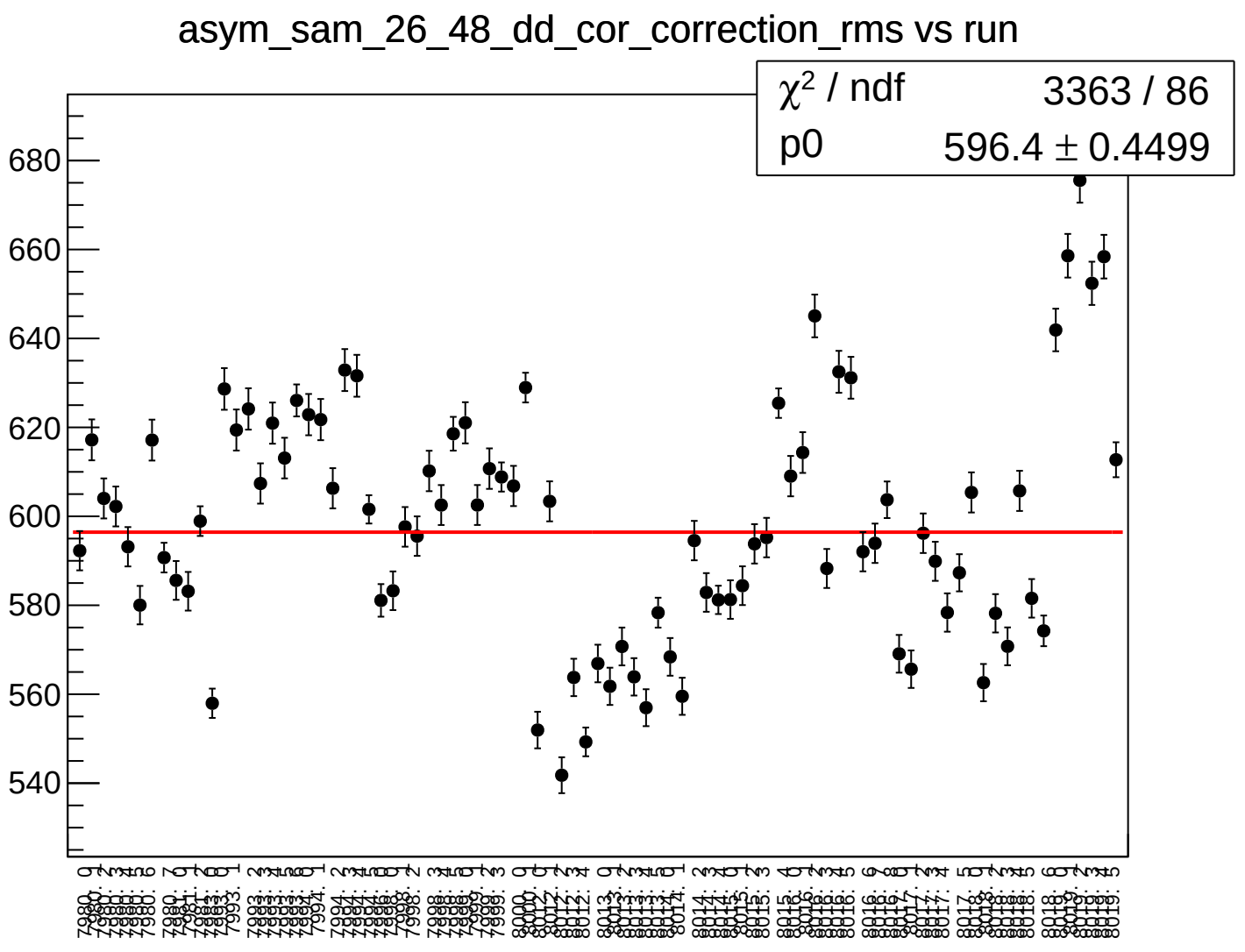

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 3363 / 86
p0 596.4 ± 0.4499
680
660
640
620
600
580
560
540

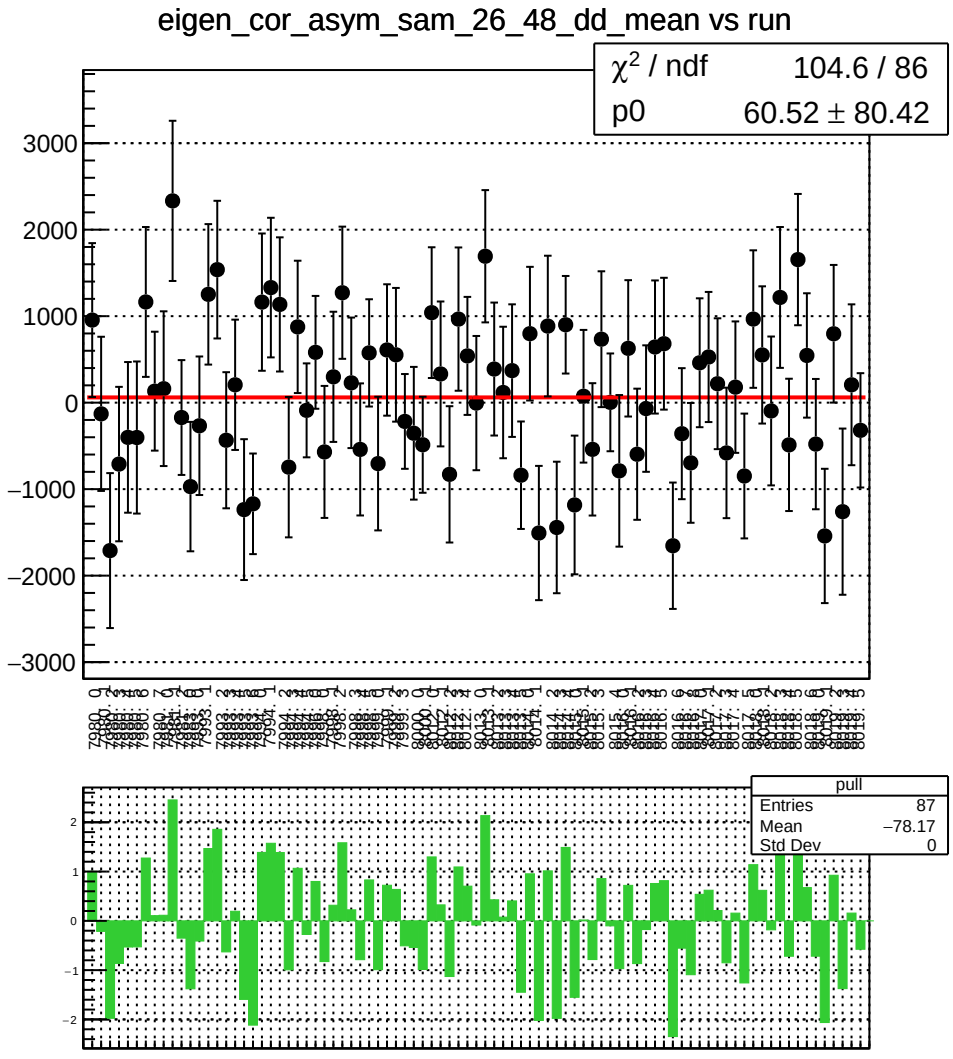

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 104.6 / 86
p0 60.52 ± 80.42
pull
Entries 87
Mean −78.17
Std Dev 0

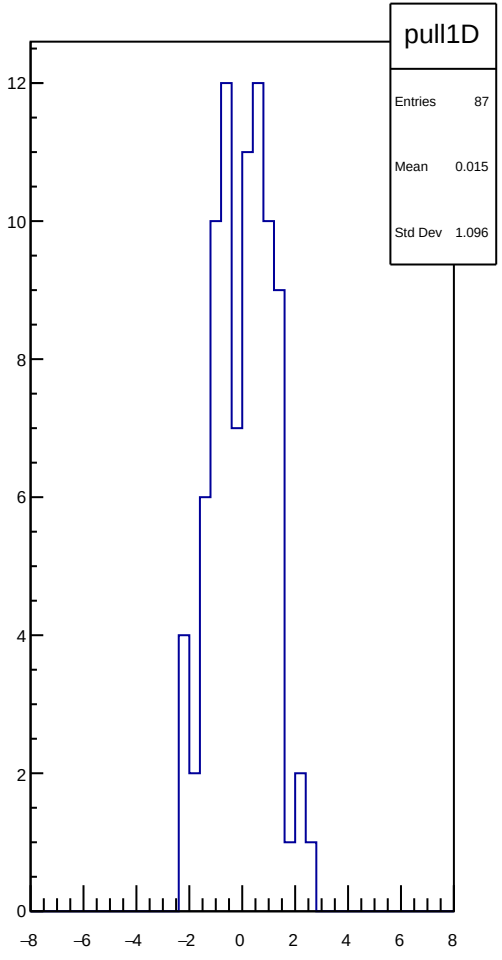

pull1D
Entries 87
Mean 0.015
Std Dev 1.096

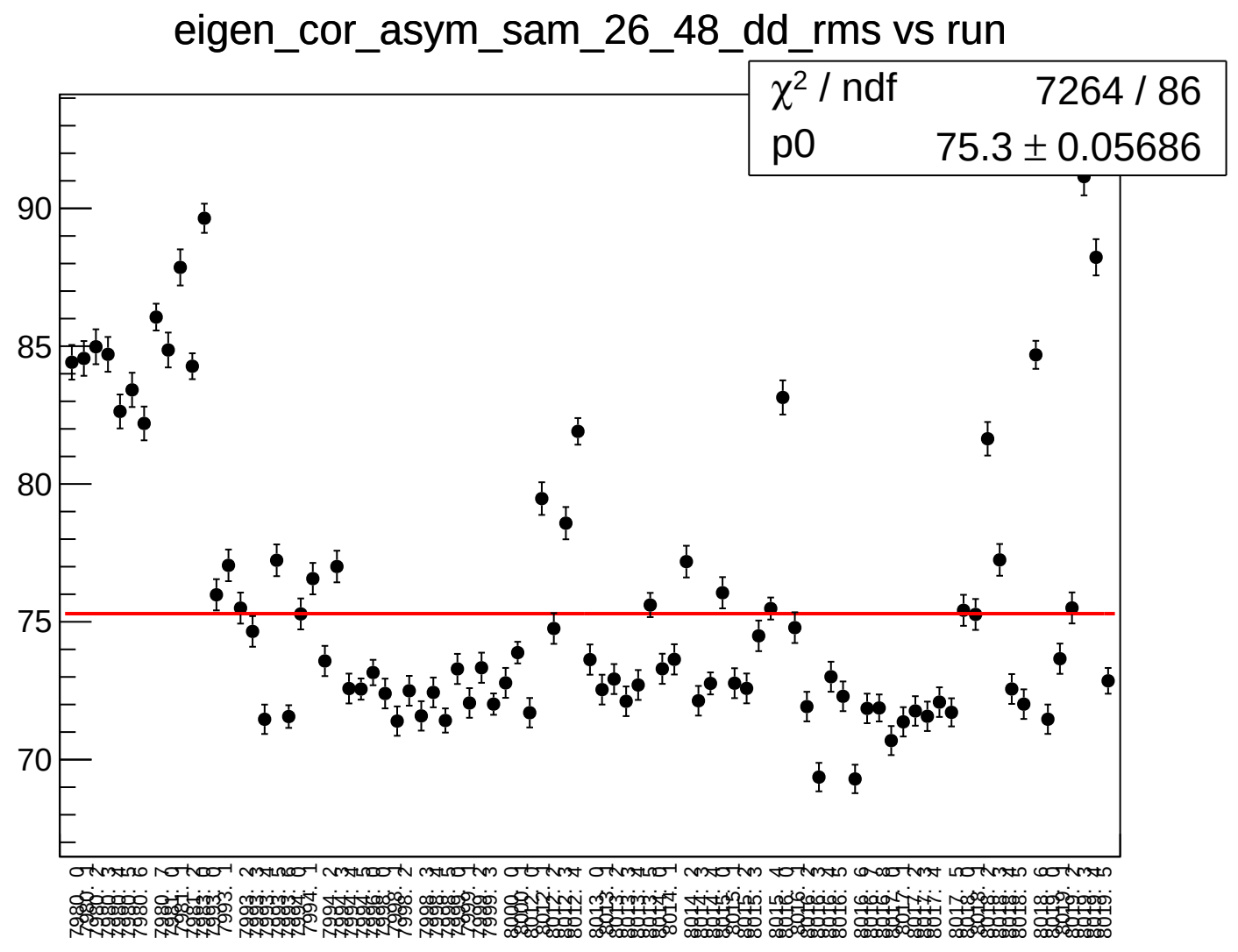

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 7264 / 86
p0 75.3 ± 0.05686
90
85
80
75
70

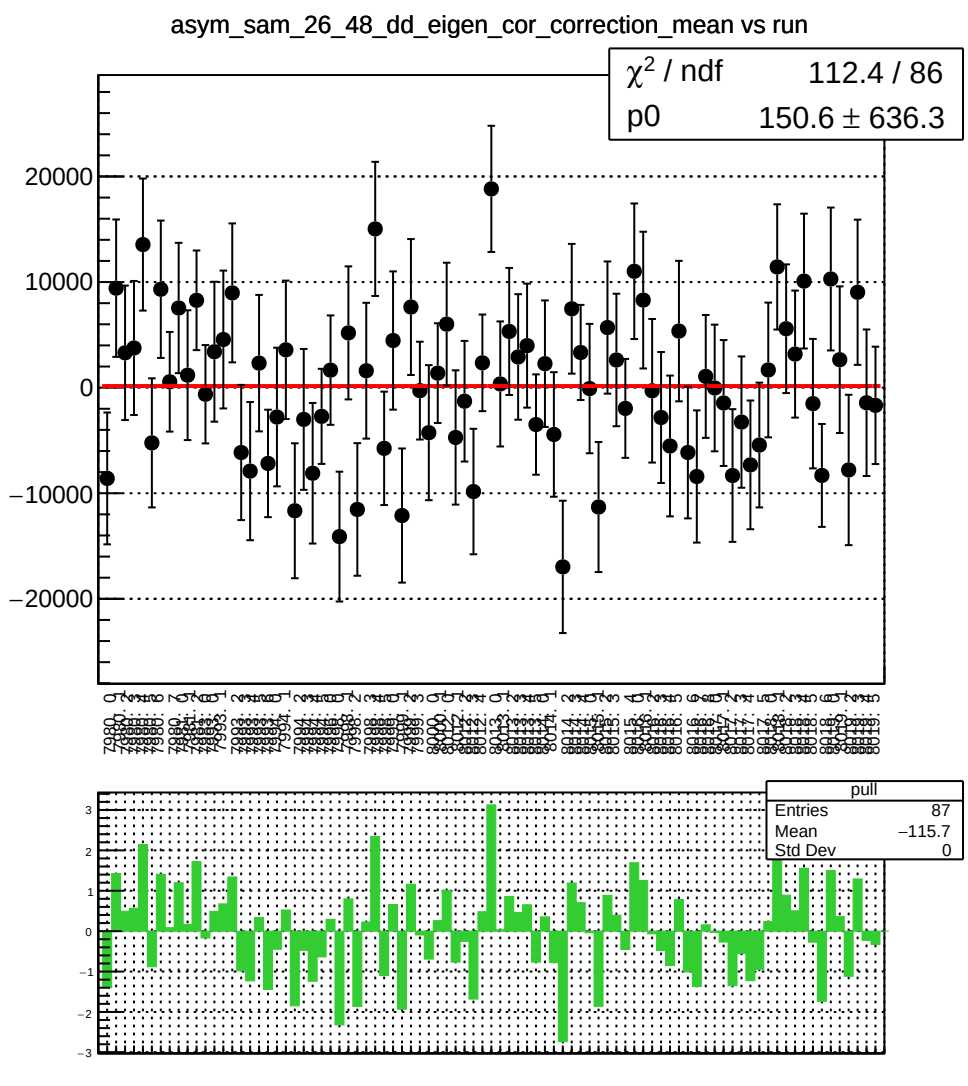

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 112.4 / 86
p0 150.6 ± 636.3
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −115.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.008221
Std Dev 1.136
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

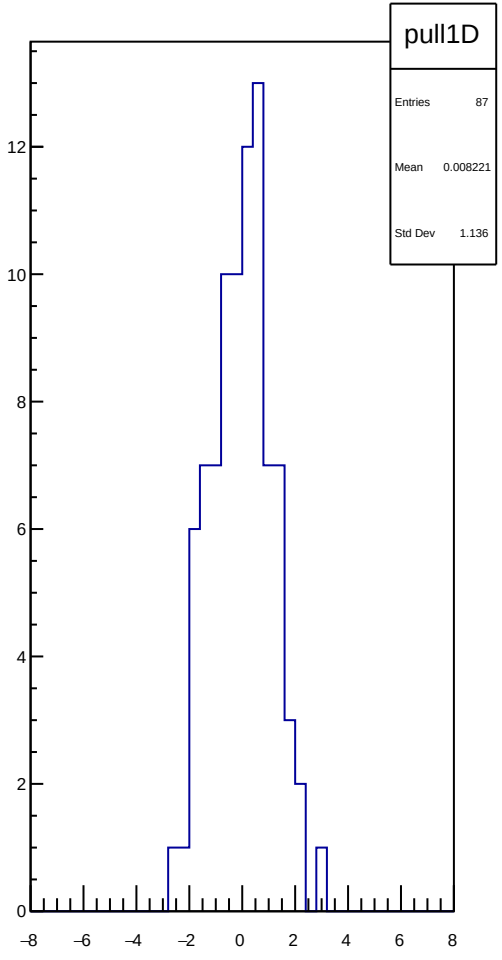

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 3363 / 86
p0 596.4 ± 0.4499
680
660
640
620
600
580
560
540

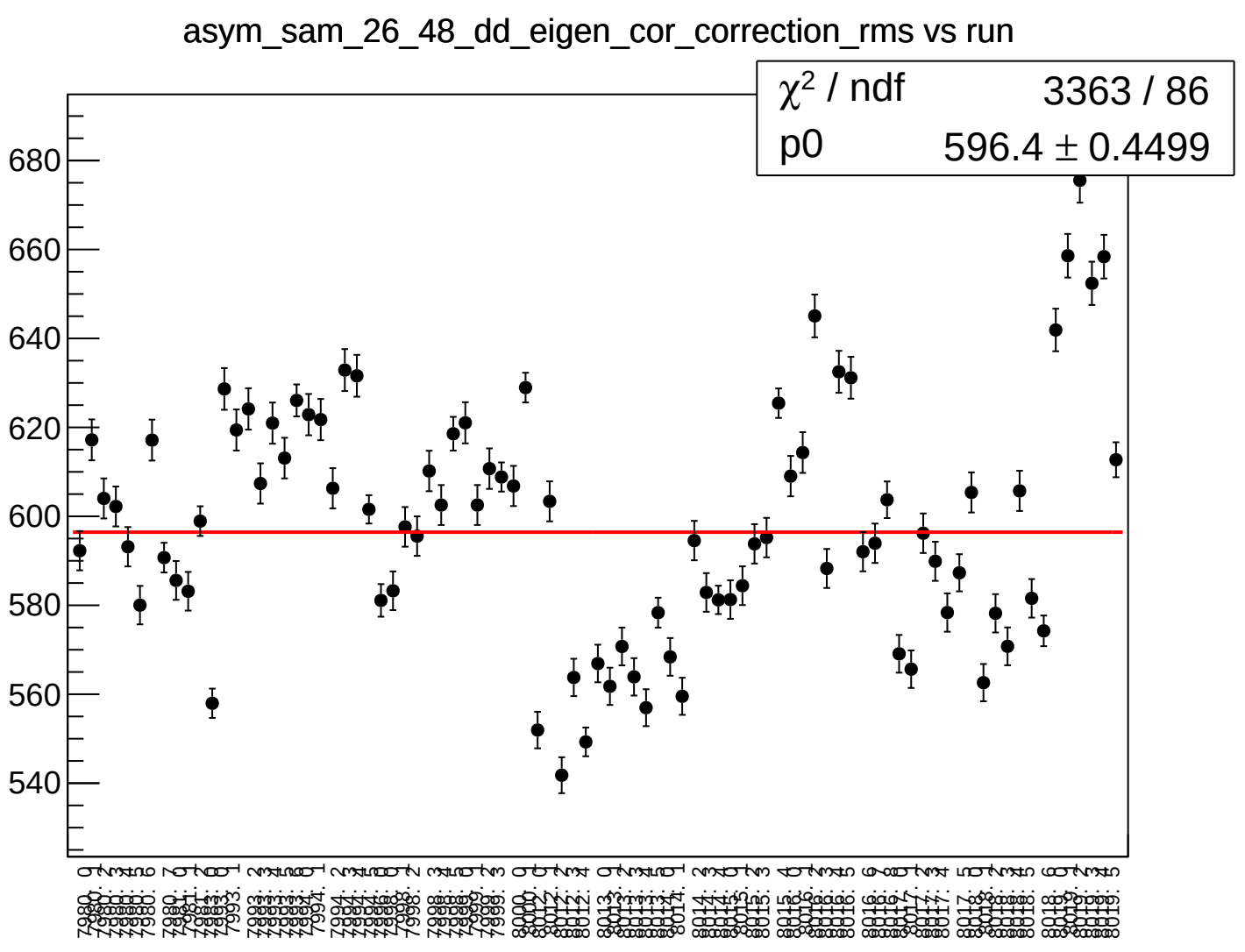

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 104.6 / 86
p0 60.52 ± 80.42
pull
Entries 87
Mean −78.17
Std Dev 0

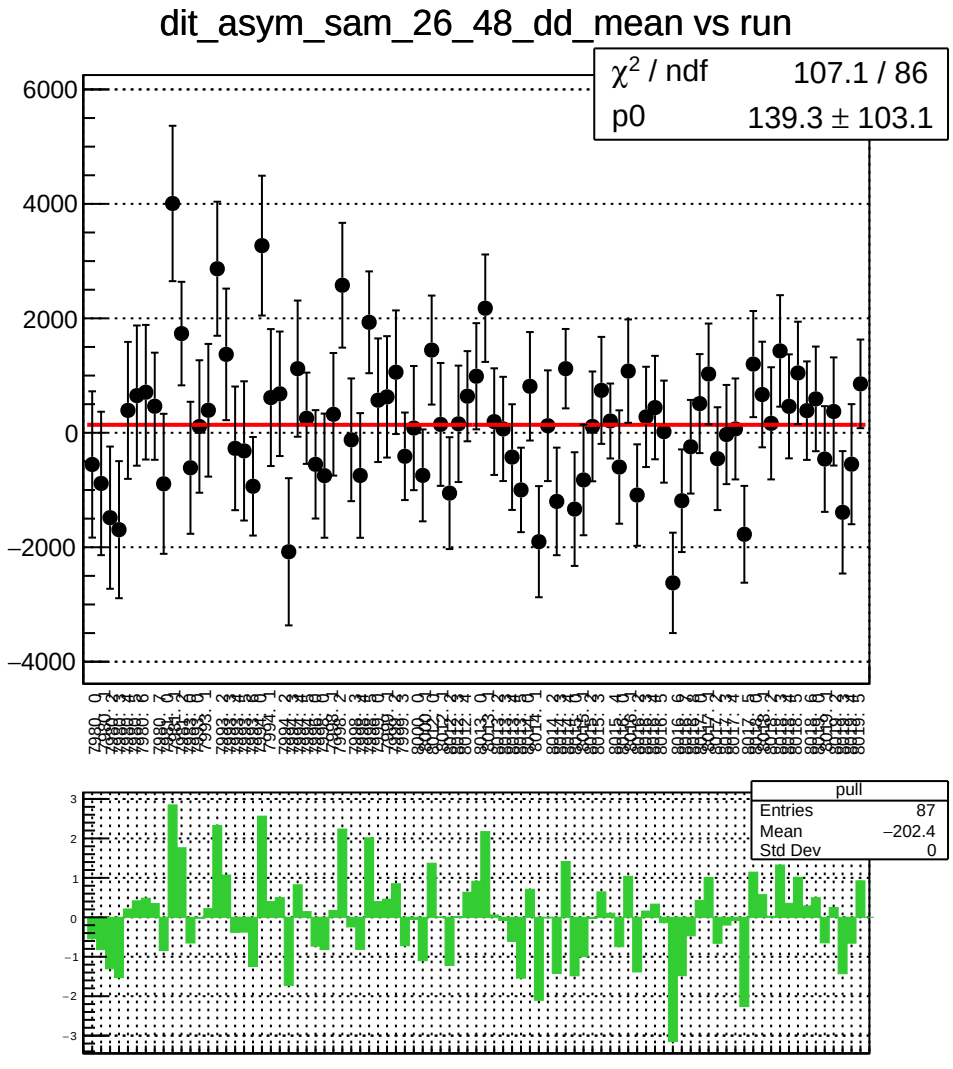

pull1D
Entries 87
Mean 0.015
Std Dev 1.096

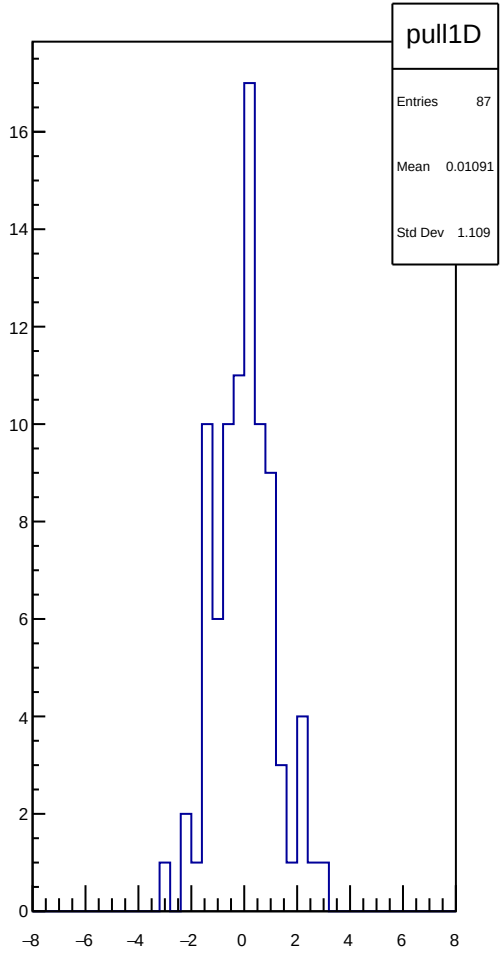

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 7264 / 86
p0 75.3 ± 0.05686
90
85
80
75
70

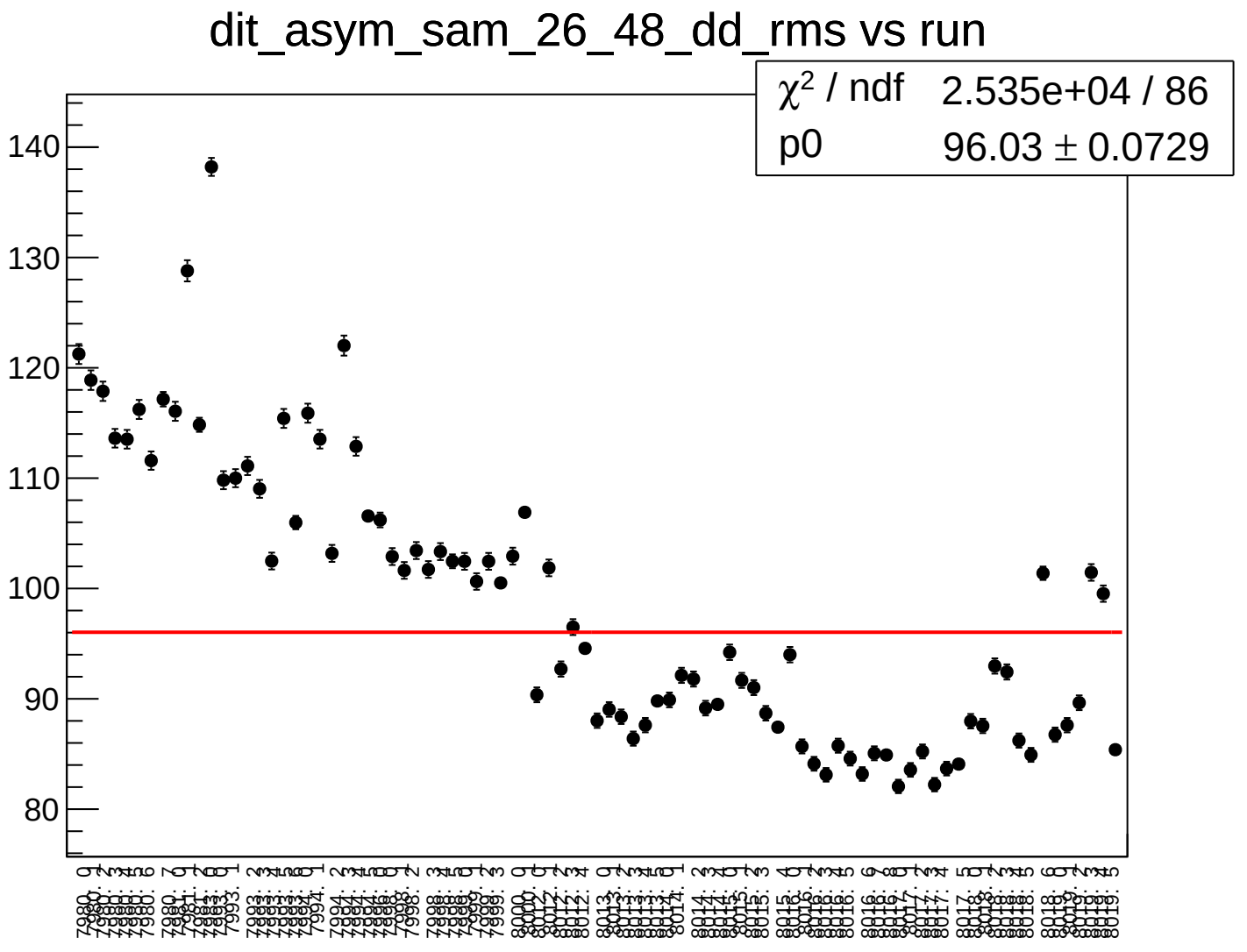

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.4 / 86
p0 150.6 ± 636.3
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −115.7
Std Dev 0
3
2
1
0
−1
−2
−3

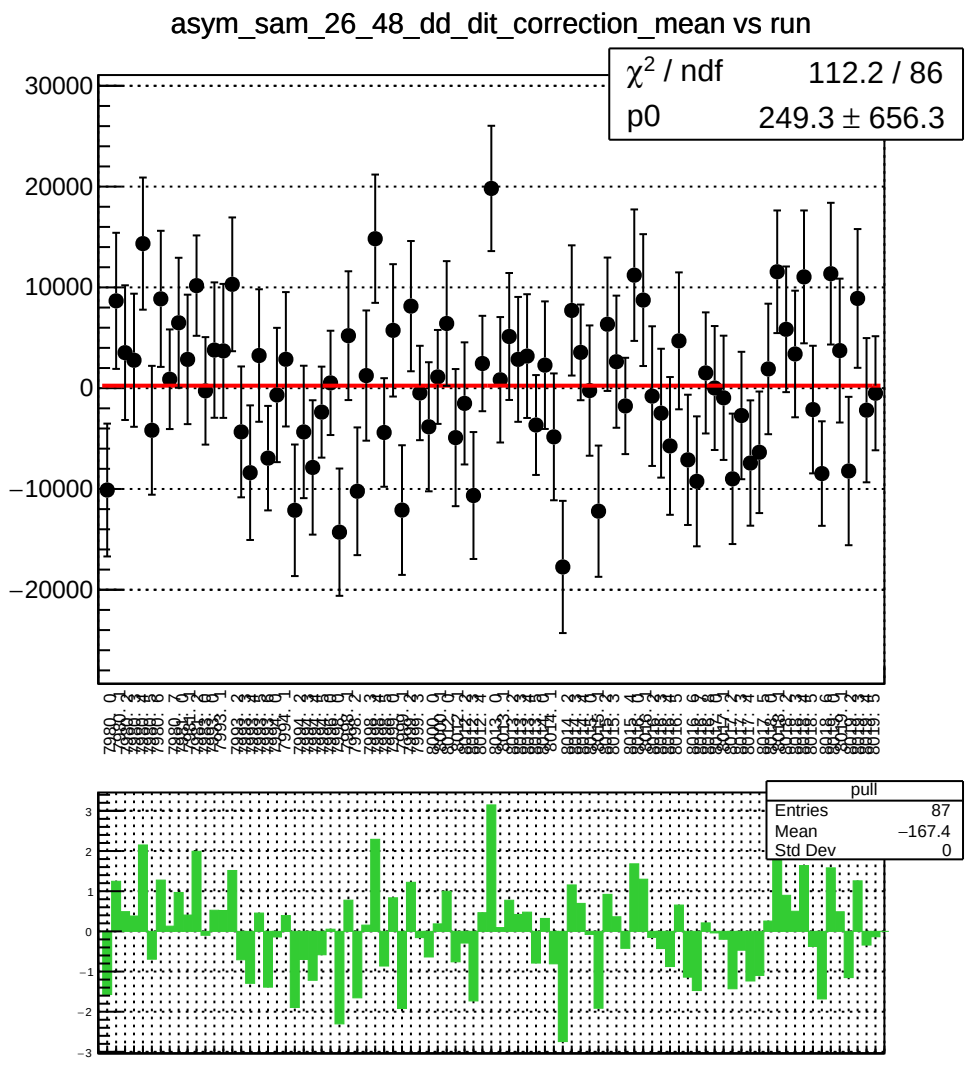

pull1D
Entries 87
Mean 0.008221
Std Dev 1.136
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

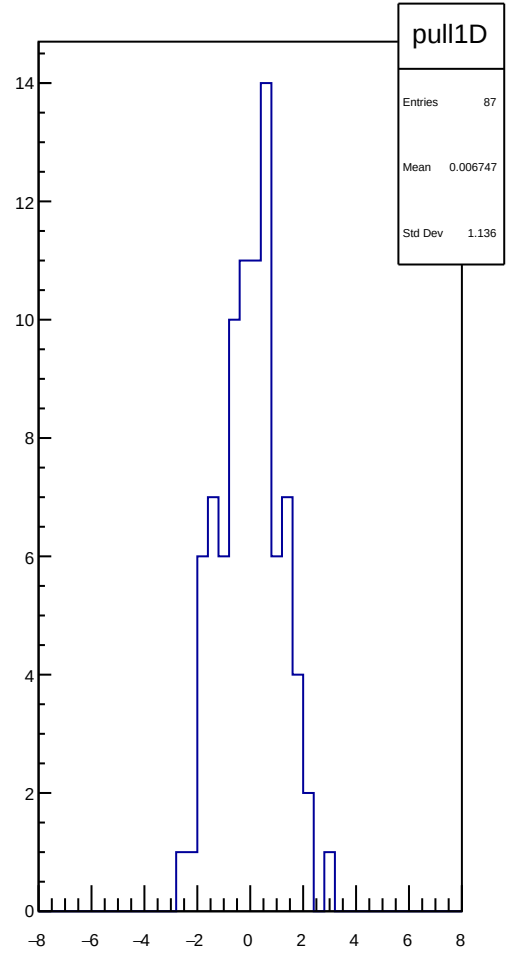

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3363 / 86
p0 596.4 ± 0.4499
680
660
640
620
600
580
560
540

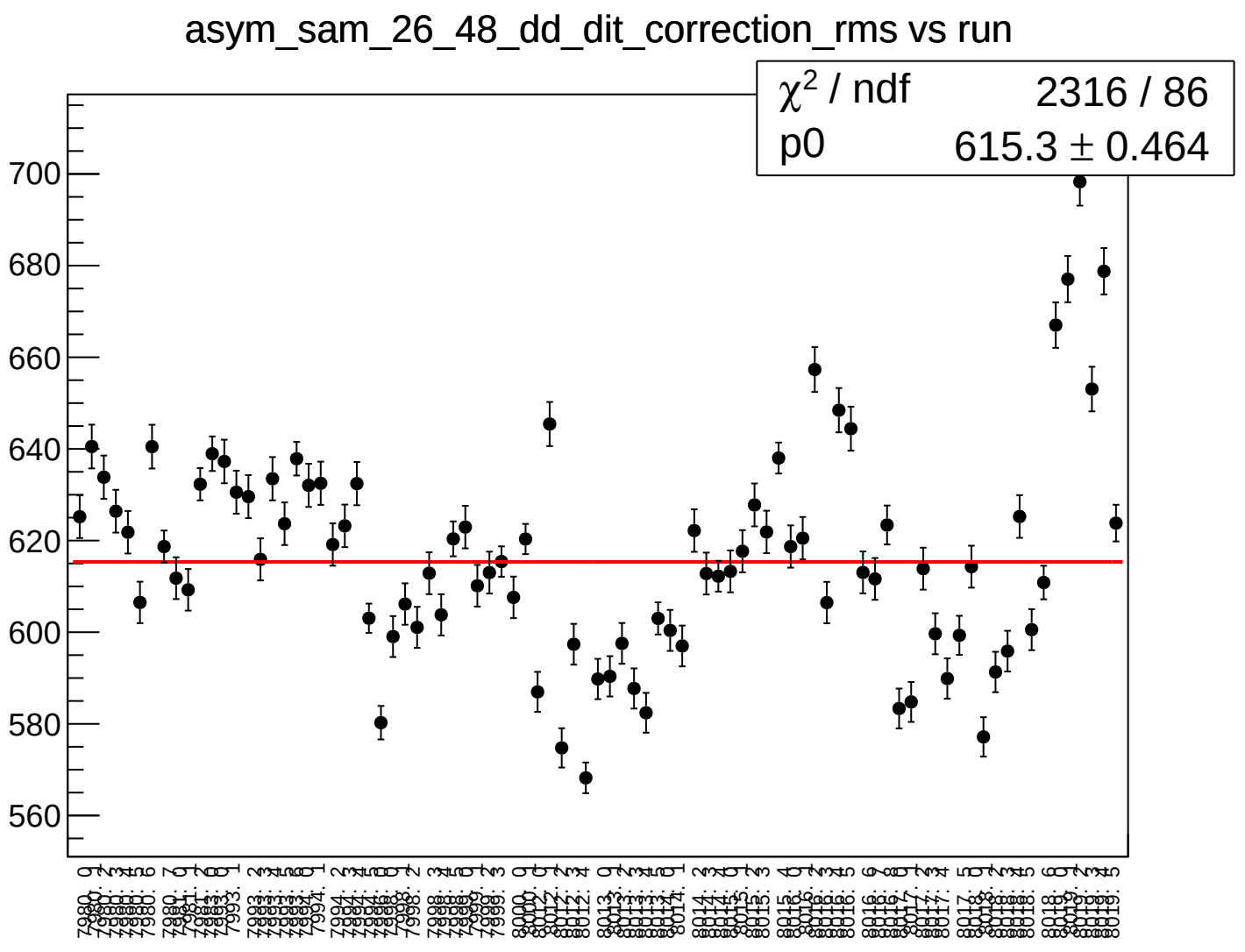

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 107.1 / 86
p0 139.3 ± 103.1
6000
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −202.4
Std Dev 0
3
2
1
0
−1
−2
−3

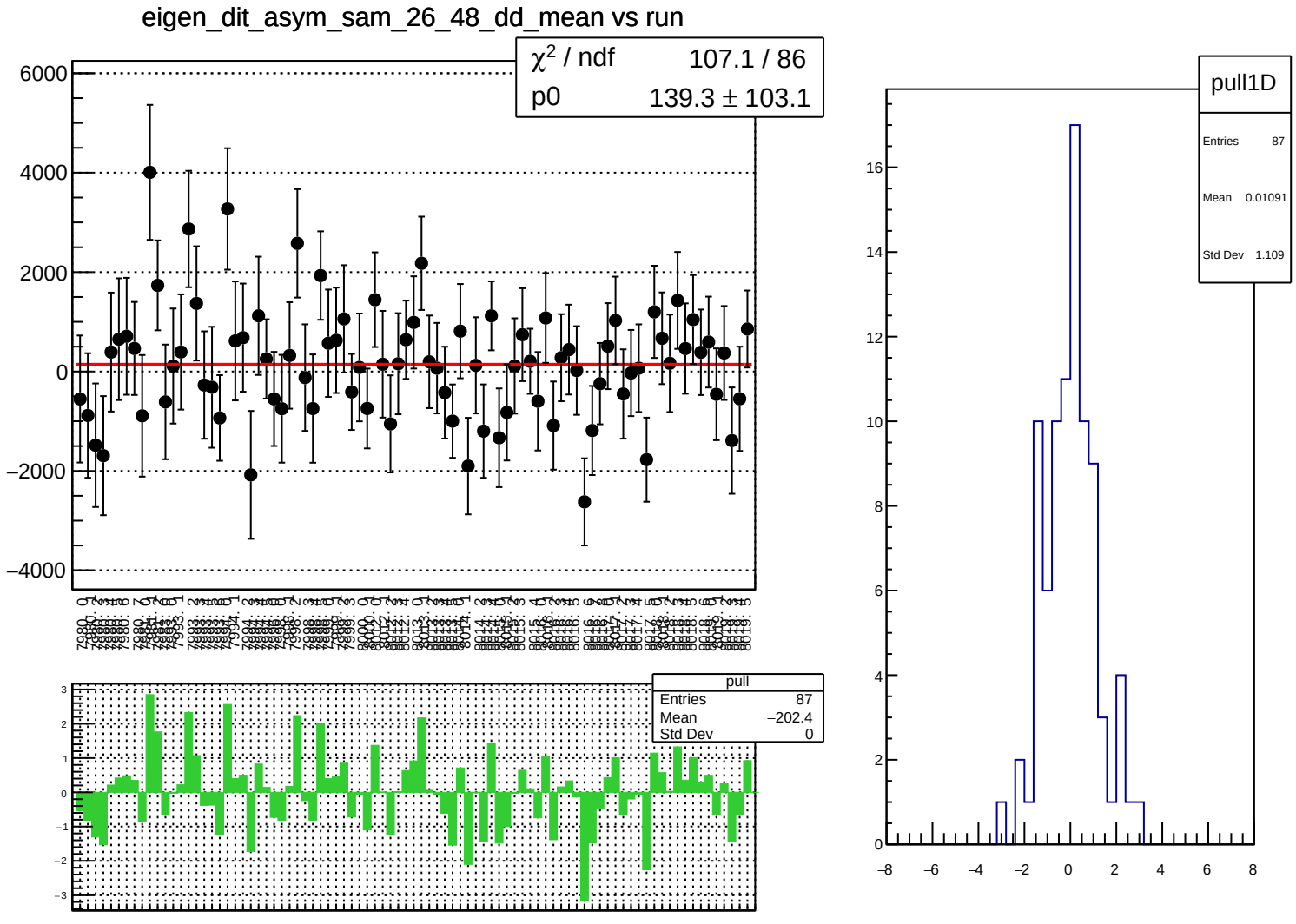

pull1D
Entries 87
Mean 0.01091
Std Dev 1.109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

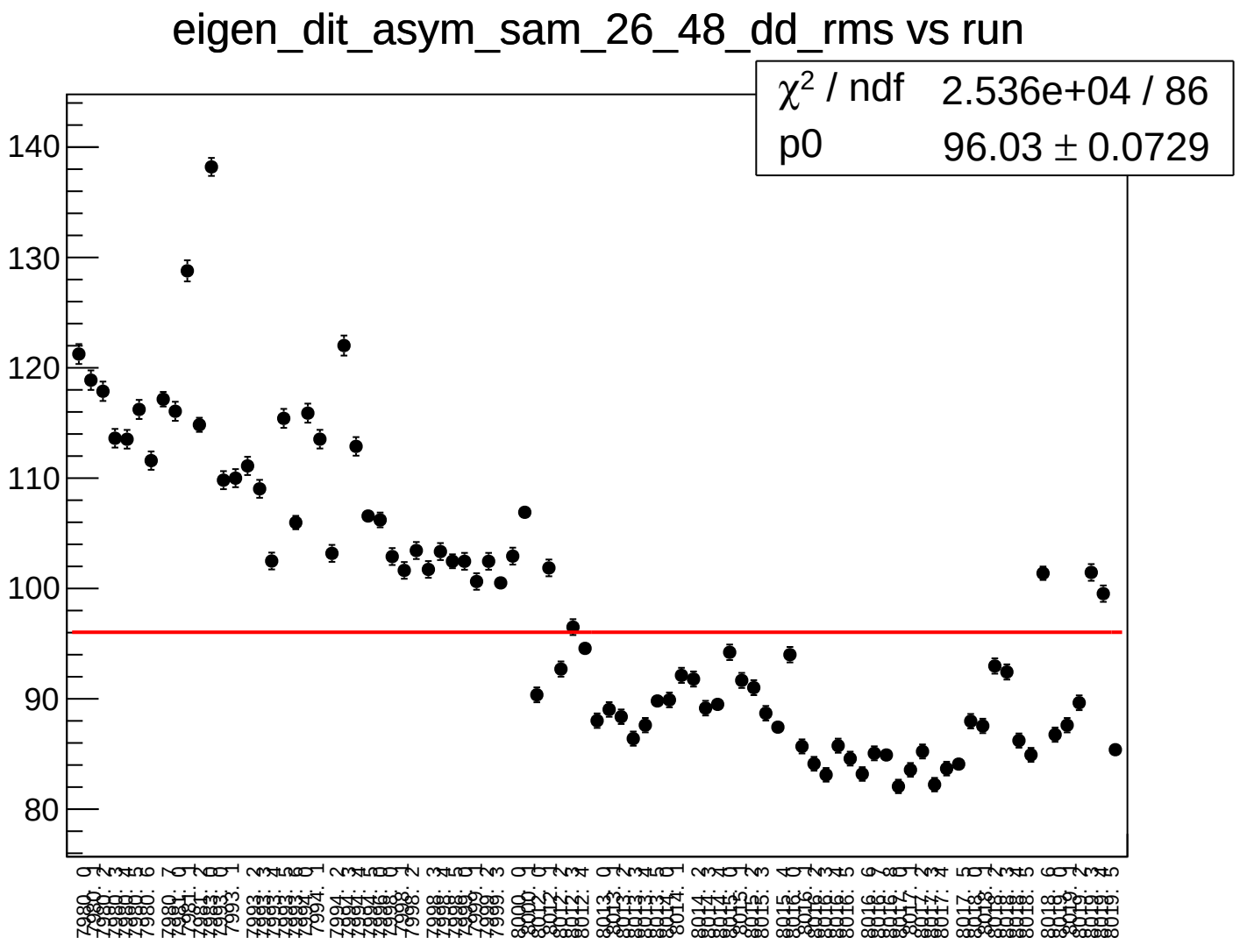

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.535e+04 / 86
p0 96.03 ± 0.0729
140
130
120
110
100
90
80

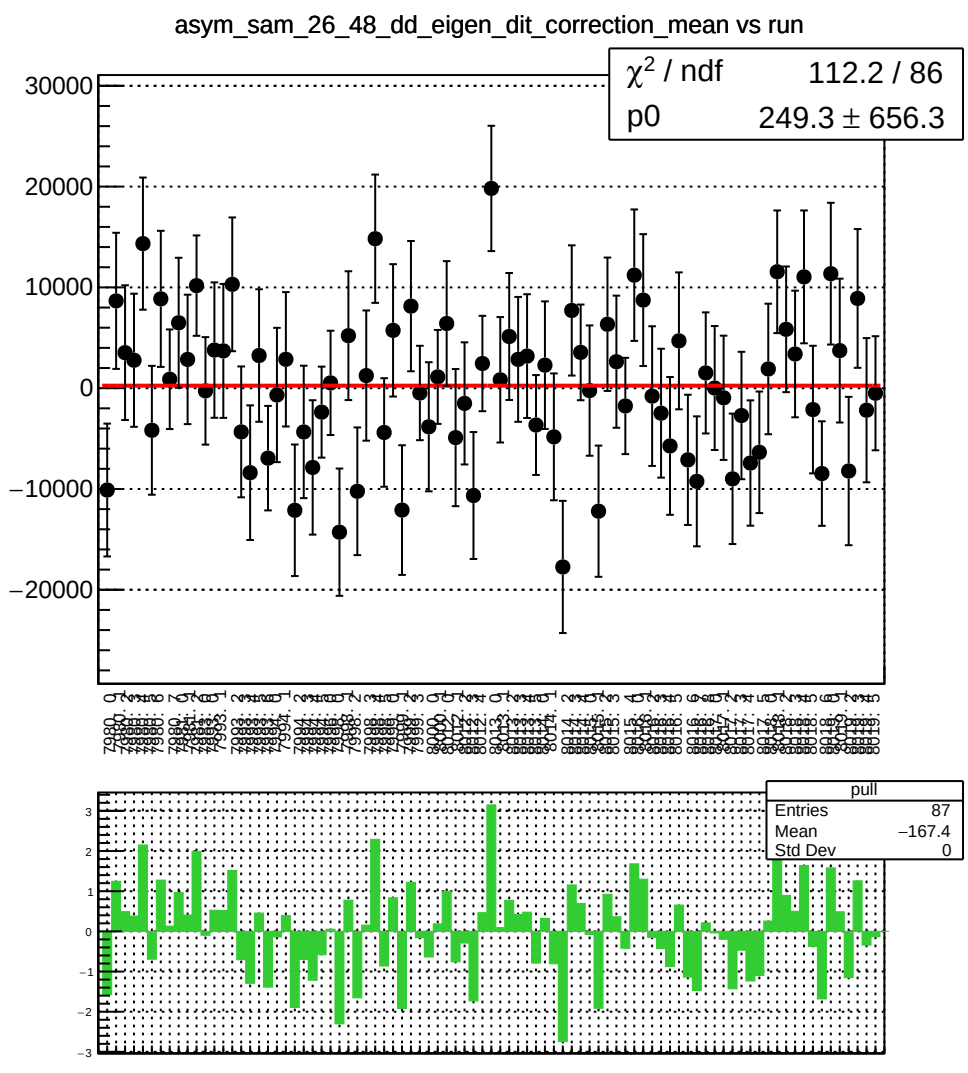

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 112.2 / 86
p0 249.3 ± 656.3
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −167.4
Std Dev 0
3
2
1
0
−1
−2
−3

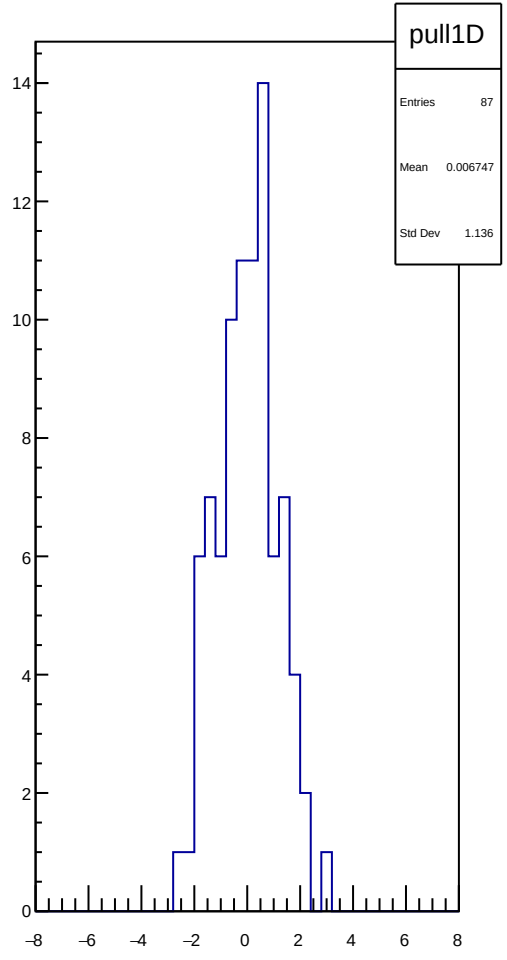

pull1D
Entries 87
Mean 0.006747
Std Dev 1.136
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

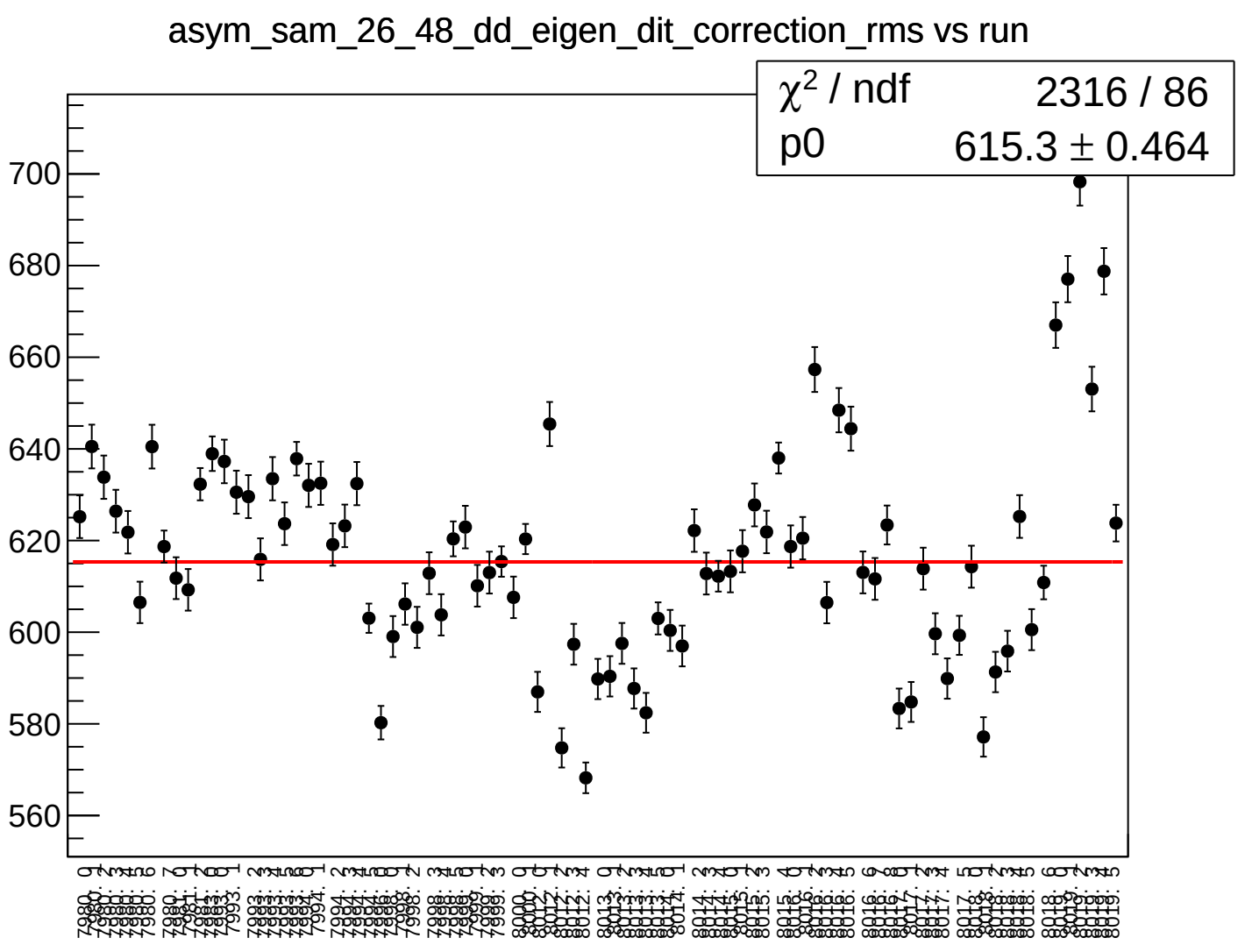

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 2316 / 86
p0 615.3 ± 0.464
700
680
660
640
620
600
580
560

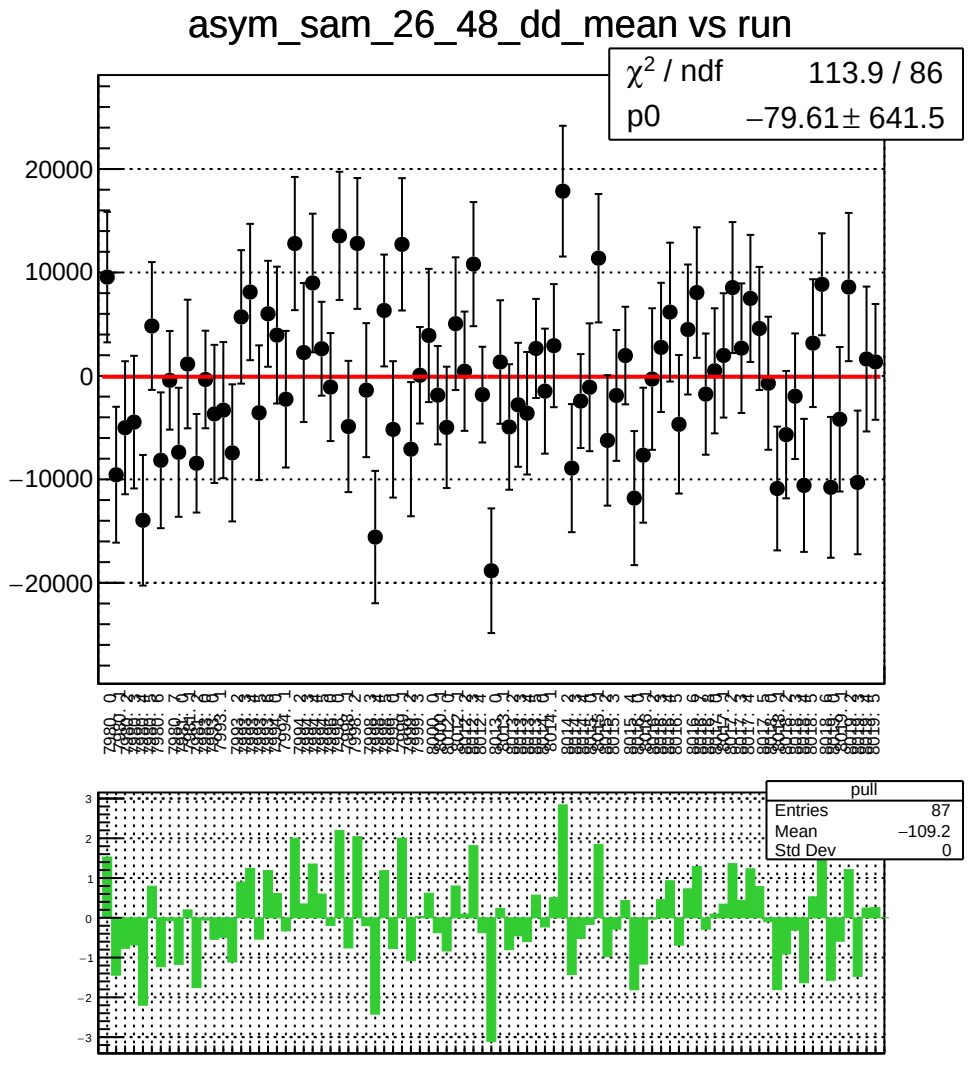

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 107.1 / 86
p0 139.3 ± 103.1
6000
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −202.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.01091
Std Dev 1.109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

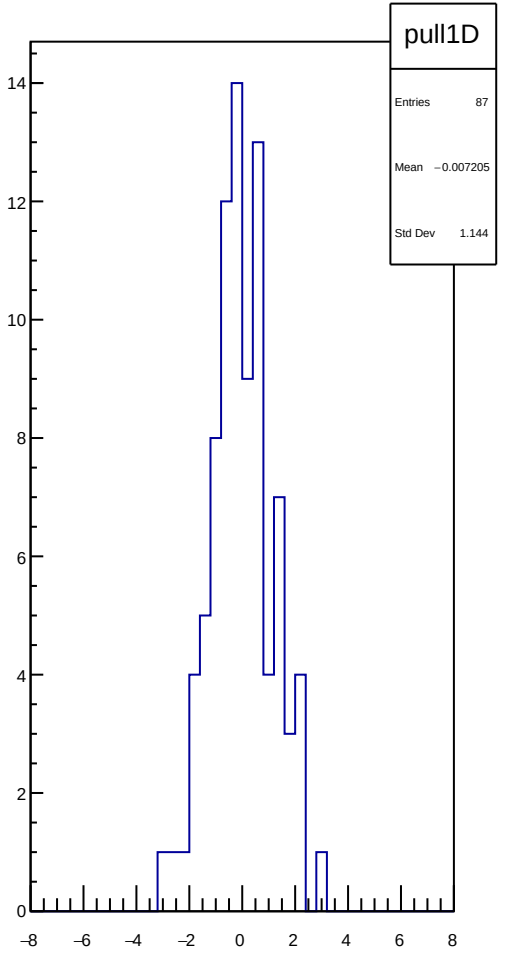

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.536e+04 / 86
p0 96.03 ± 0.0729
140
130
120
110
100
90
80

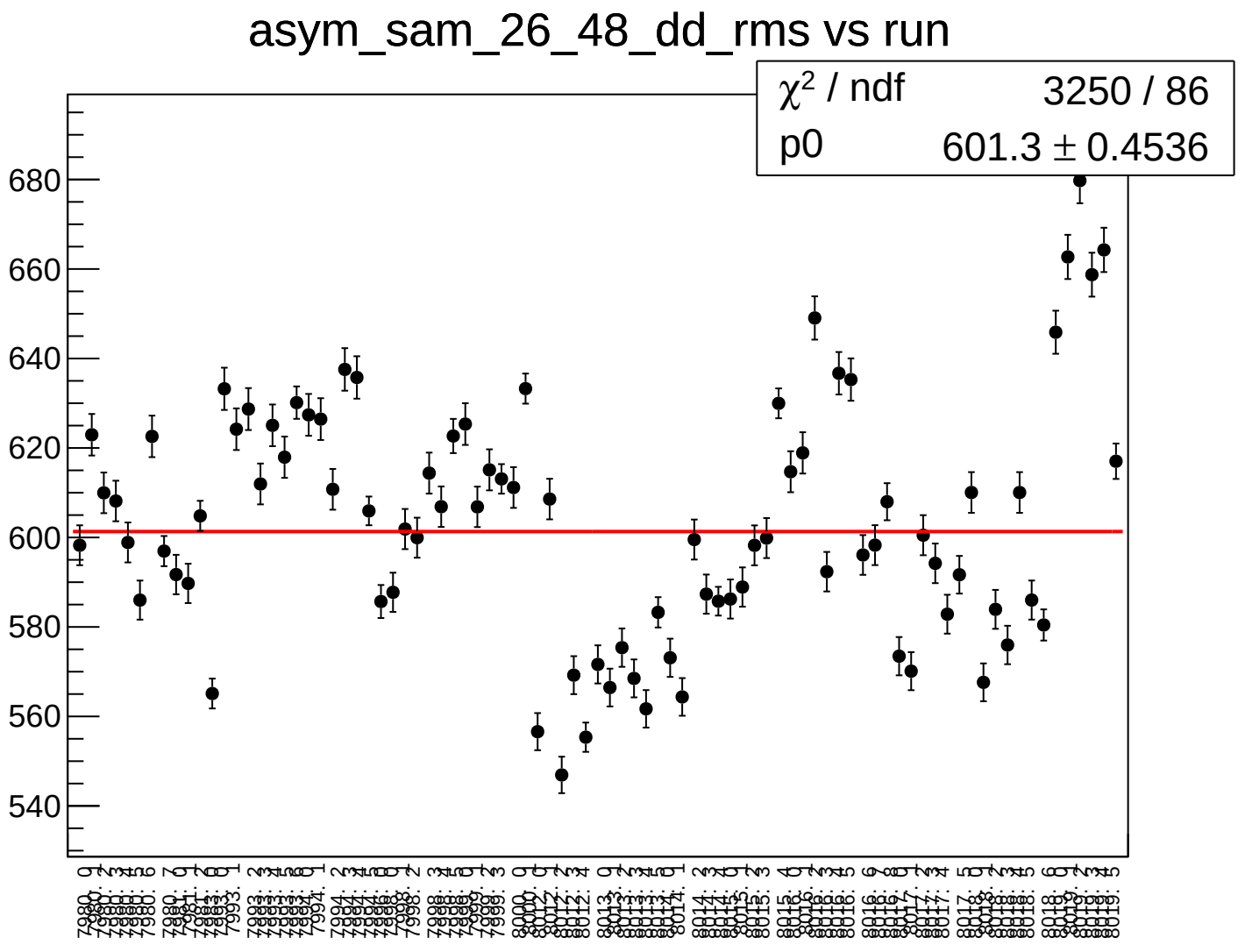

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 112.2 / 86
p0 249.3 ± 656.3
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −167.4
Std Dev 0
3
2
1
0
−1
−2
−3

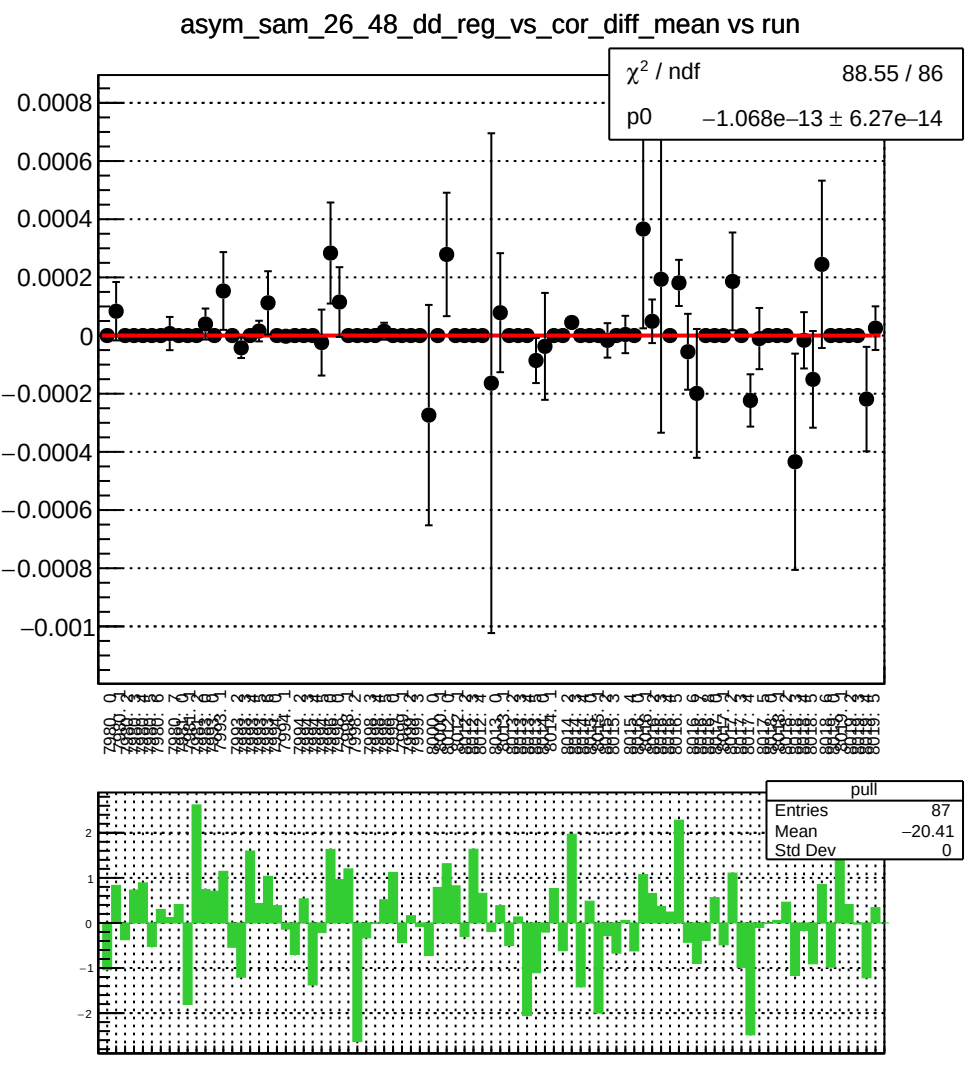

pull1D
Entries 87
Mean 0.006747
Std Dev 1.136
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

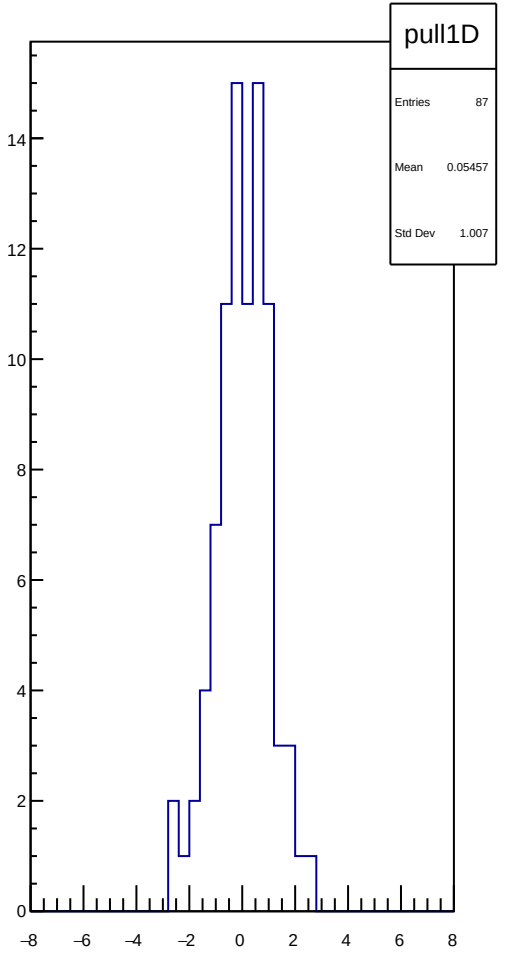

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2316 / 86
p0 615.3 ± 0.464
700
680
660
640
620
600
580
560

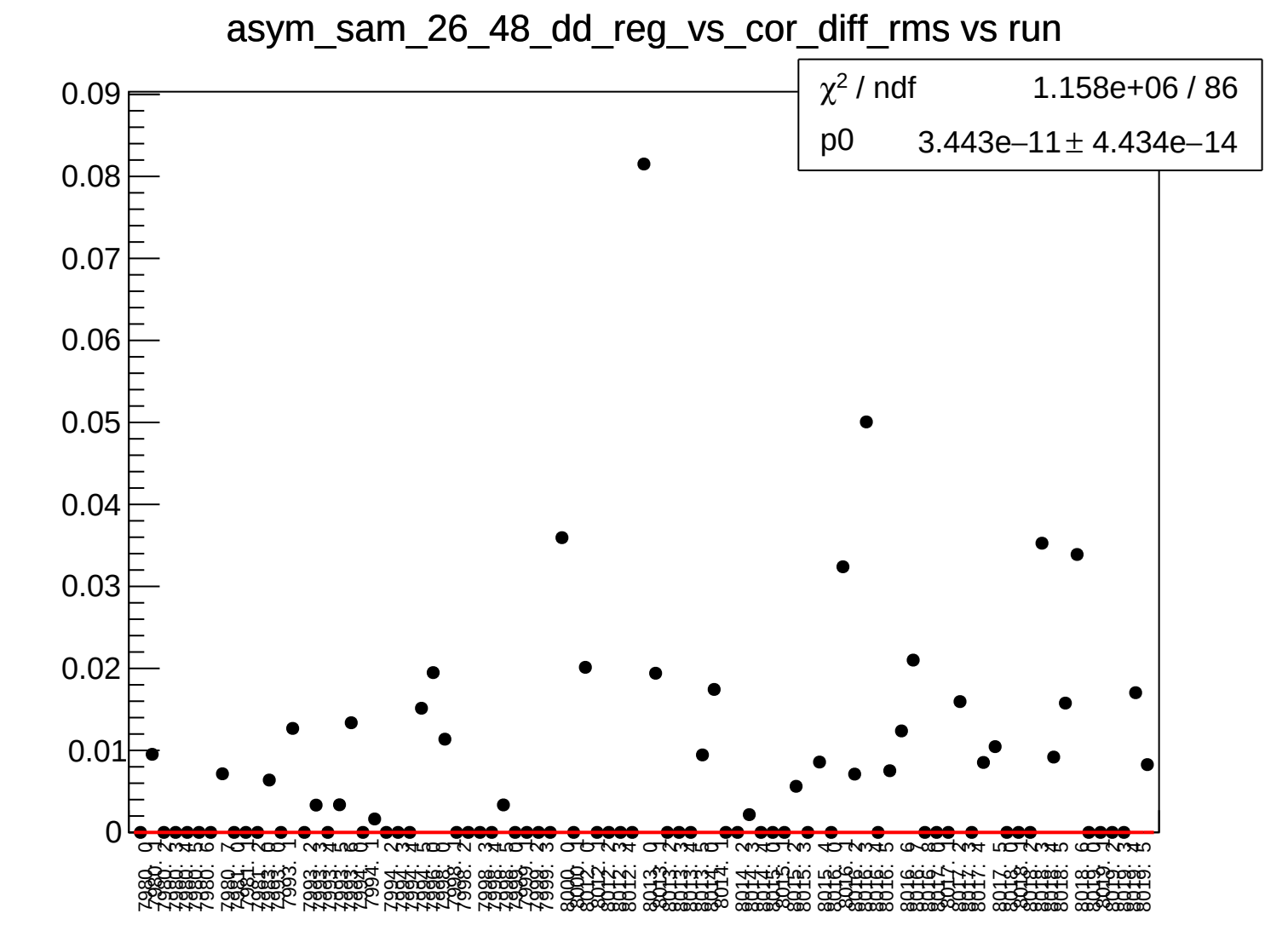

asym_sam_26_48_dd_mean vs run
χ² / ndf 113.9 / 86
p0 −79.61 ± 641.5
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −109.2
Std Dev 0
3
2
1
0
−1
−2
−3

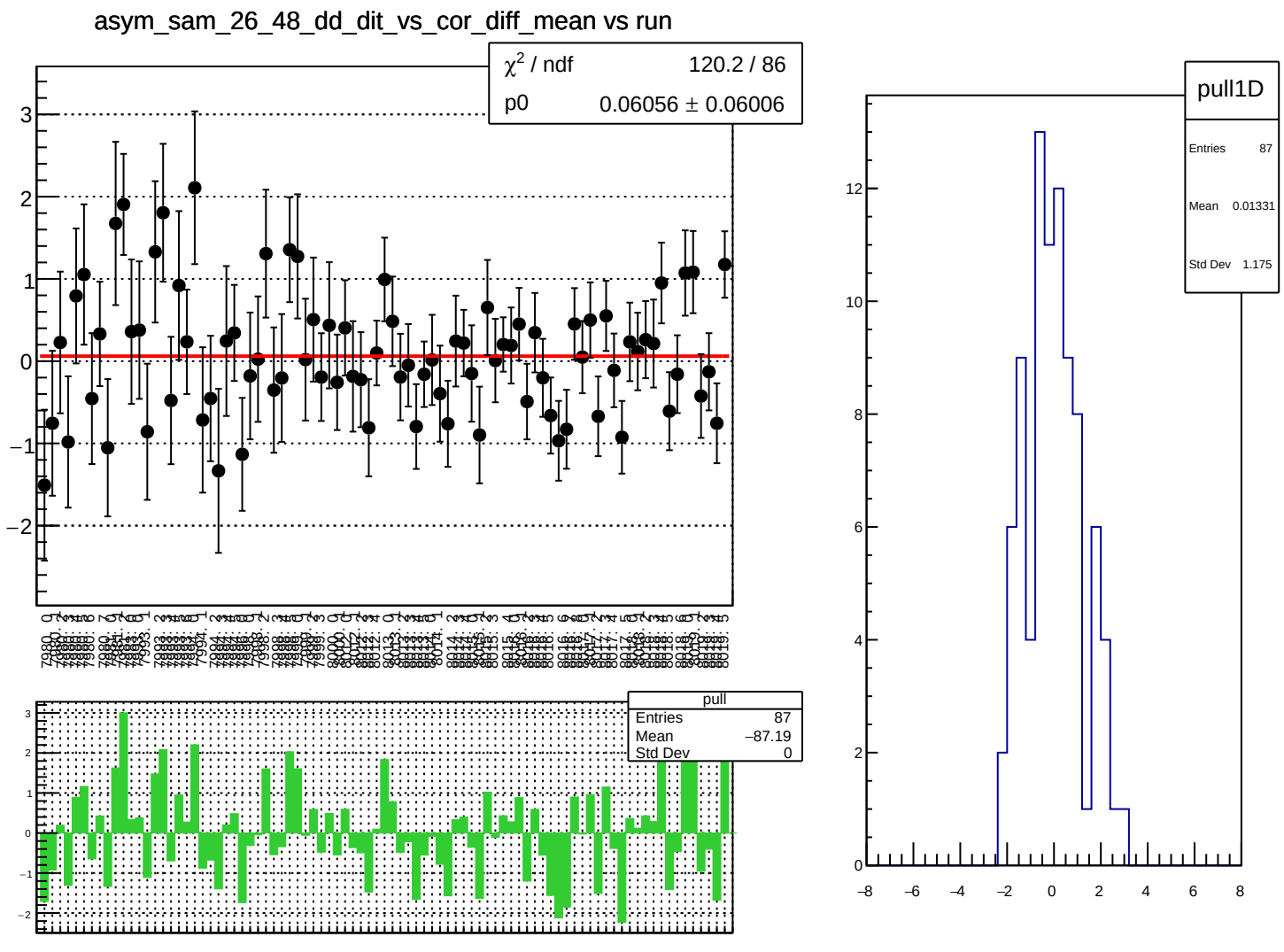

pull1D
Entries 87
Mean −0.007205
Std Dev 1.144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

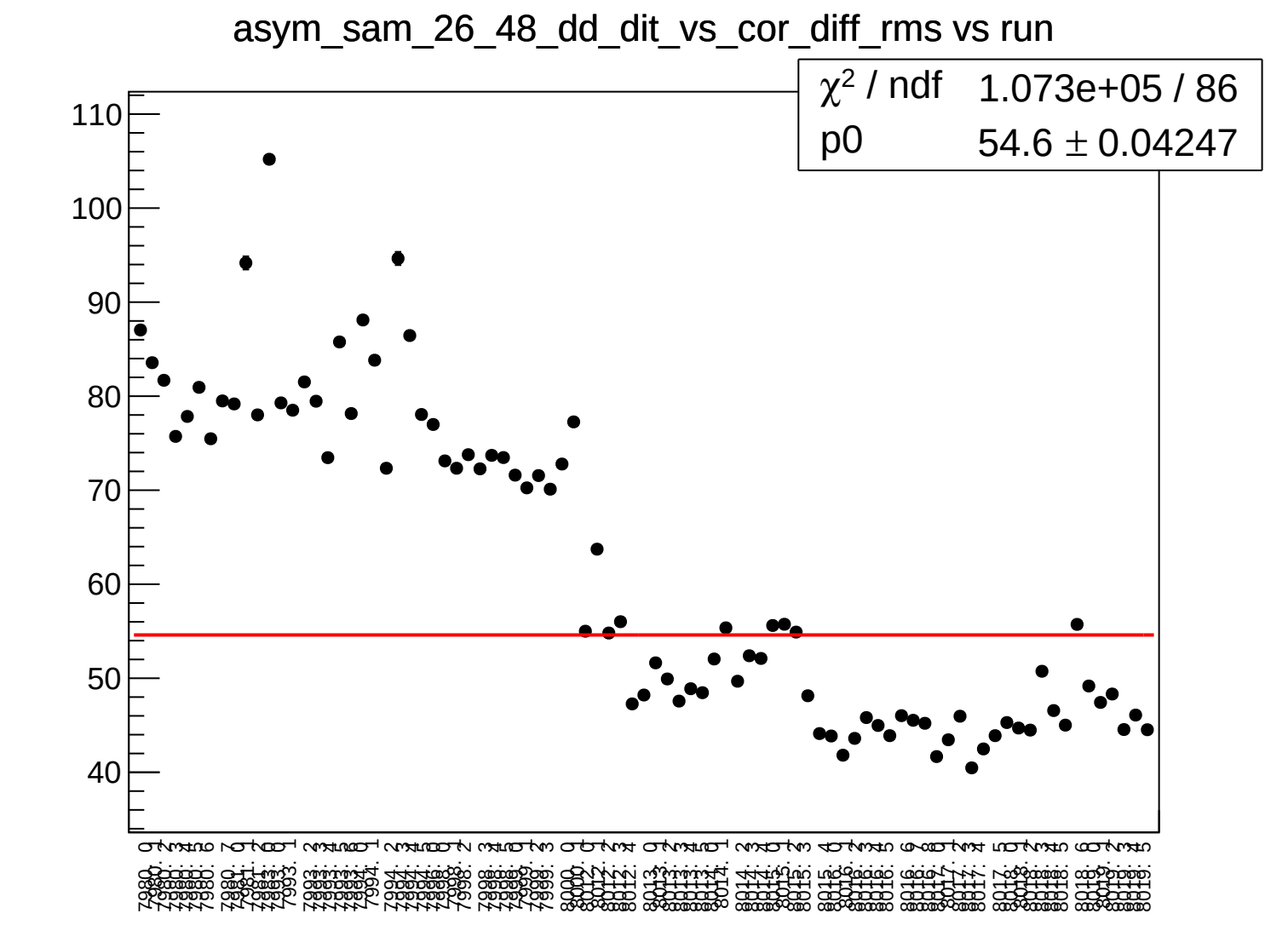

asym_sam_26_48_dd_rms vs run
χ² / ndf 3250 / 86
p0 601.3 ± 0.4536
680
660
640
620
600
580
560
540

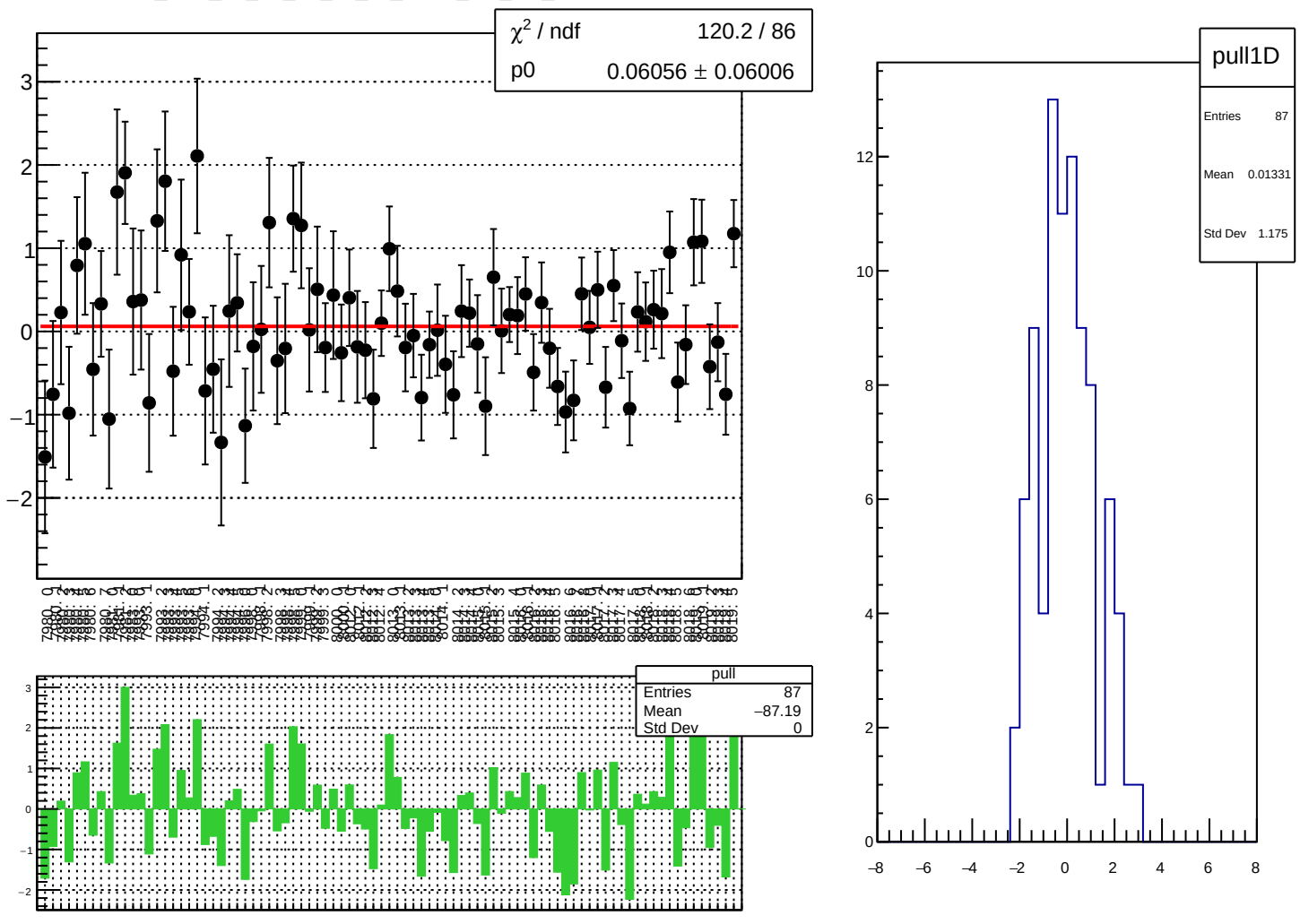

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.55 / 86
p0 −1.068e−13 ± 6.27e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 87
Mean −20.41
Std Dev 0
2
1
0
−1
−2

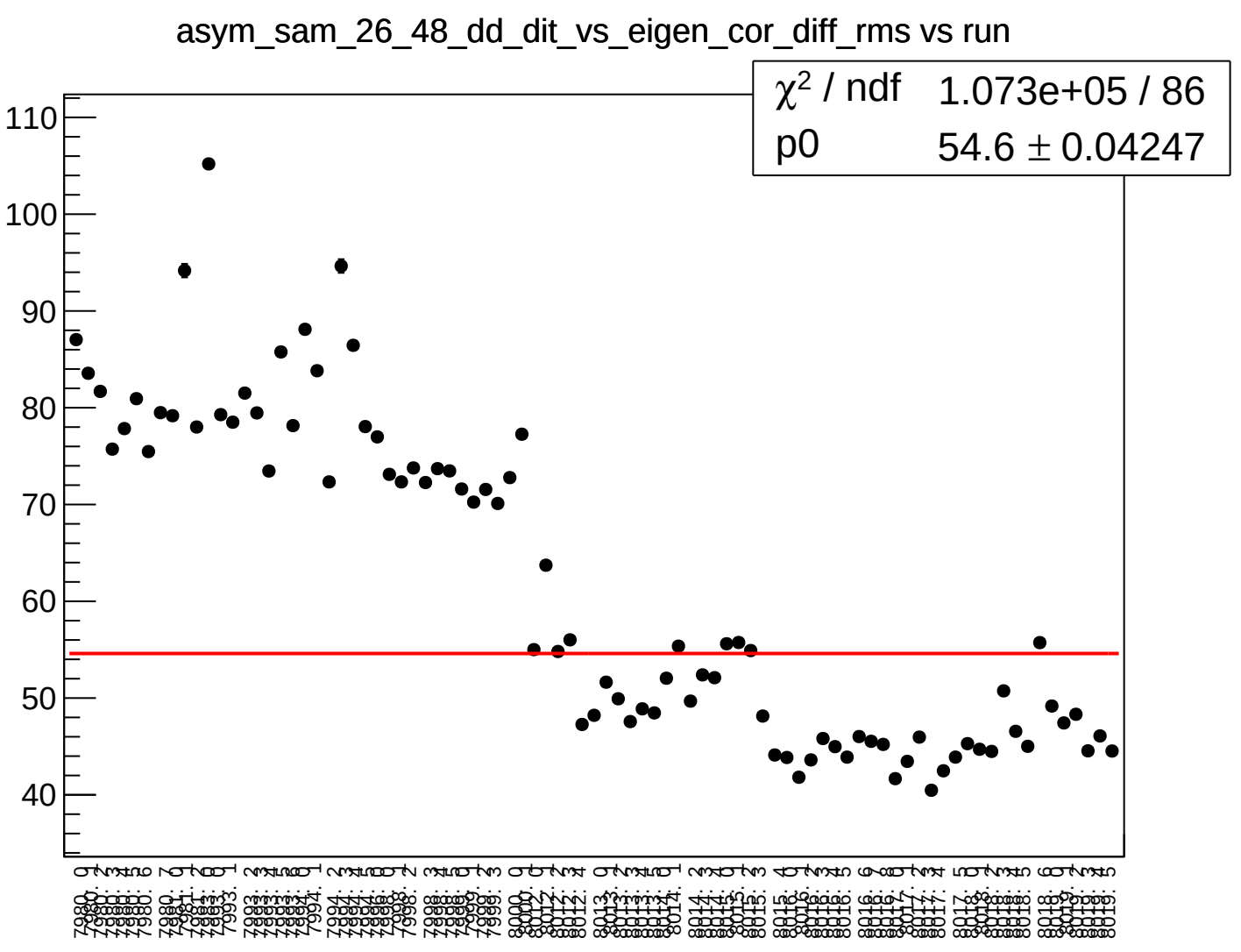

pull1D
Entries 87
Mean 0.05457
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

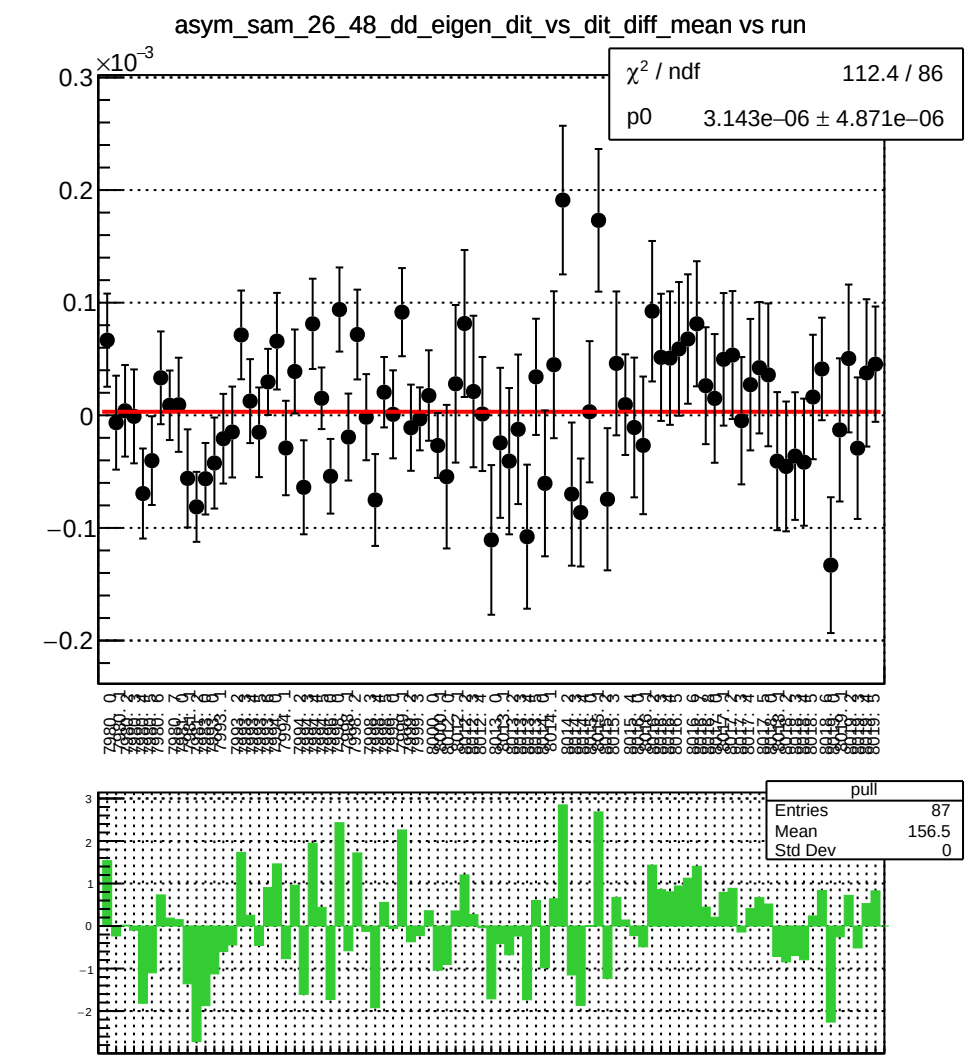

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.158e+06 / 86
p0 3.443e−11 ± 4.434e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

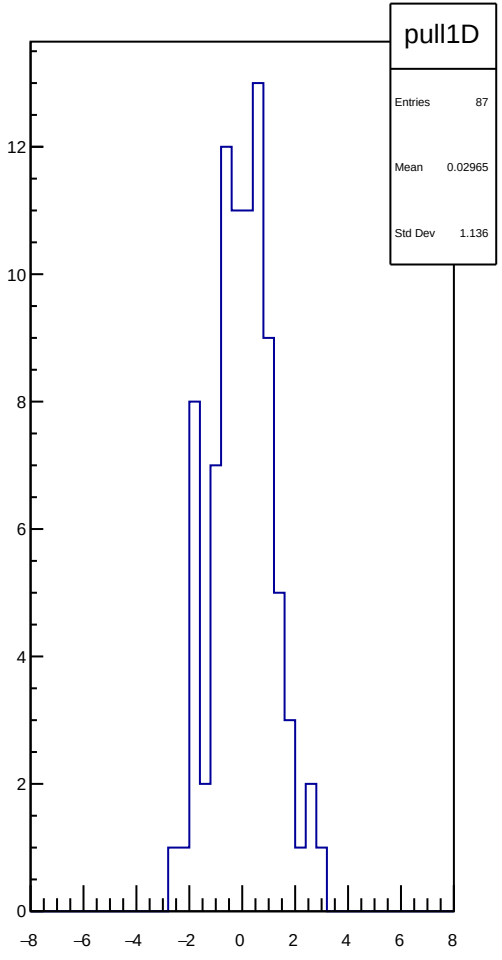

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 120.2 / 86
p0 0.06056 ± 0.06006
pull
Entries 87
Mean −87.19
Std Dev 0
pull1D
Entries 87
Mean 0.01331
Std Dev 1.175

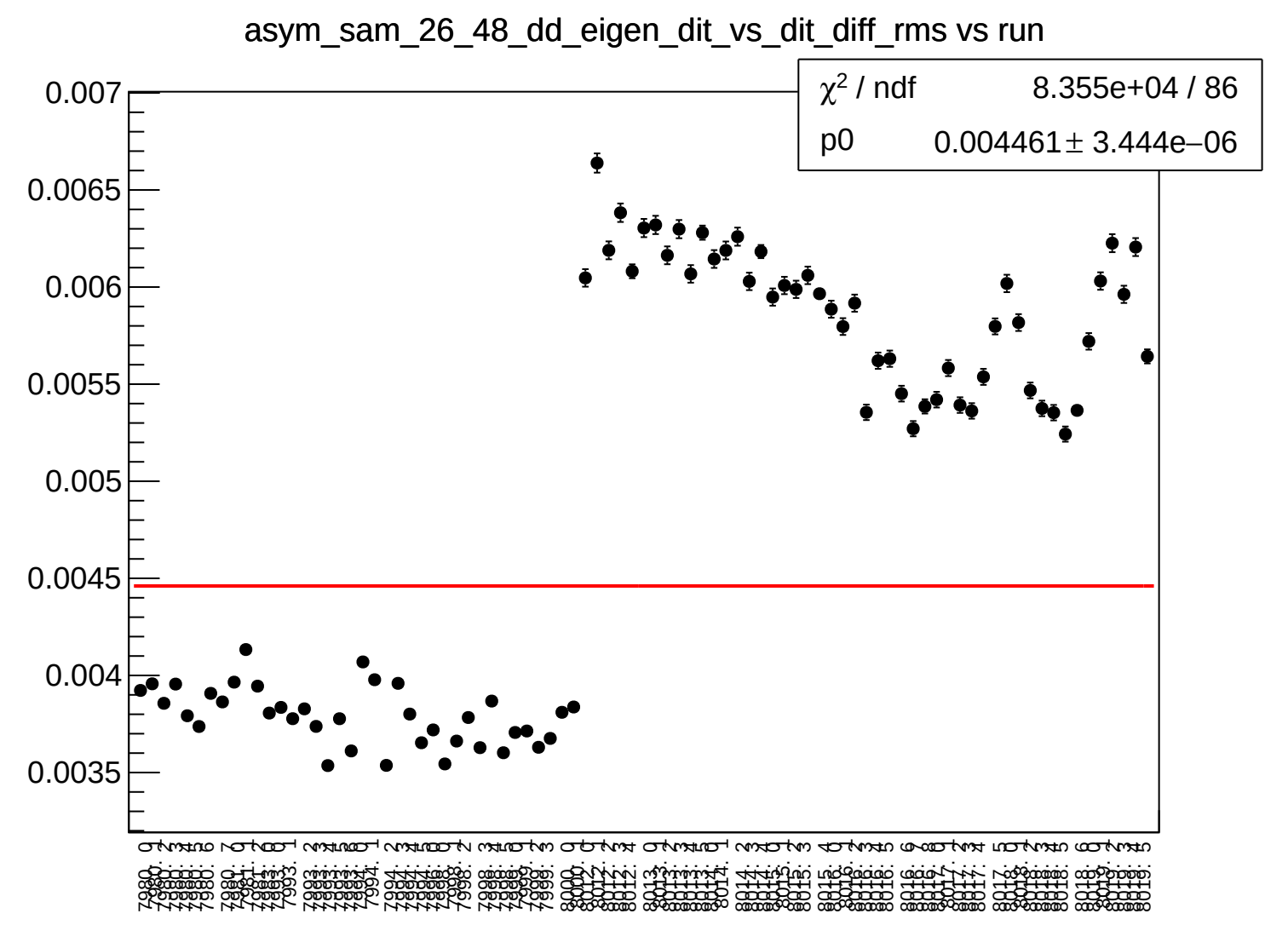

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.073e+05 / 86
p0 54.6 ± 0.04247
110
100
90
80
70
60
50
40

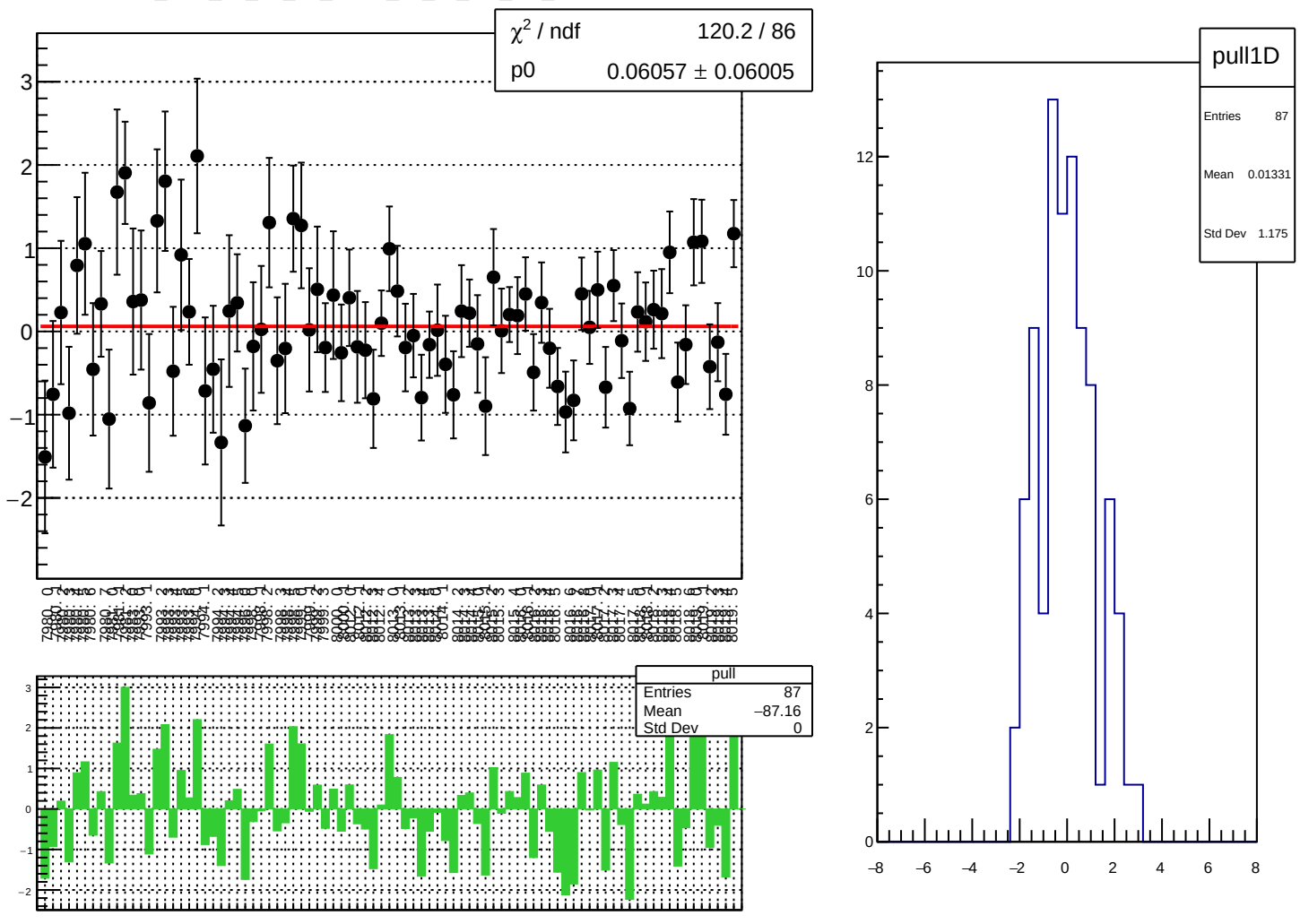

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.2 / 86
p0 0.06056 ± 0.06006
pull
Entries 87
Mean −87.19
Std Dev 0
pull1D
Entries 87
Mean 0.01331
Std Dev 1.175

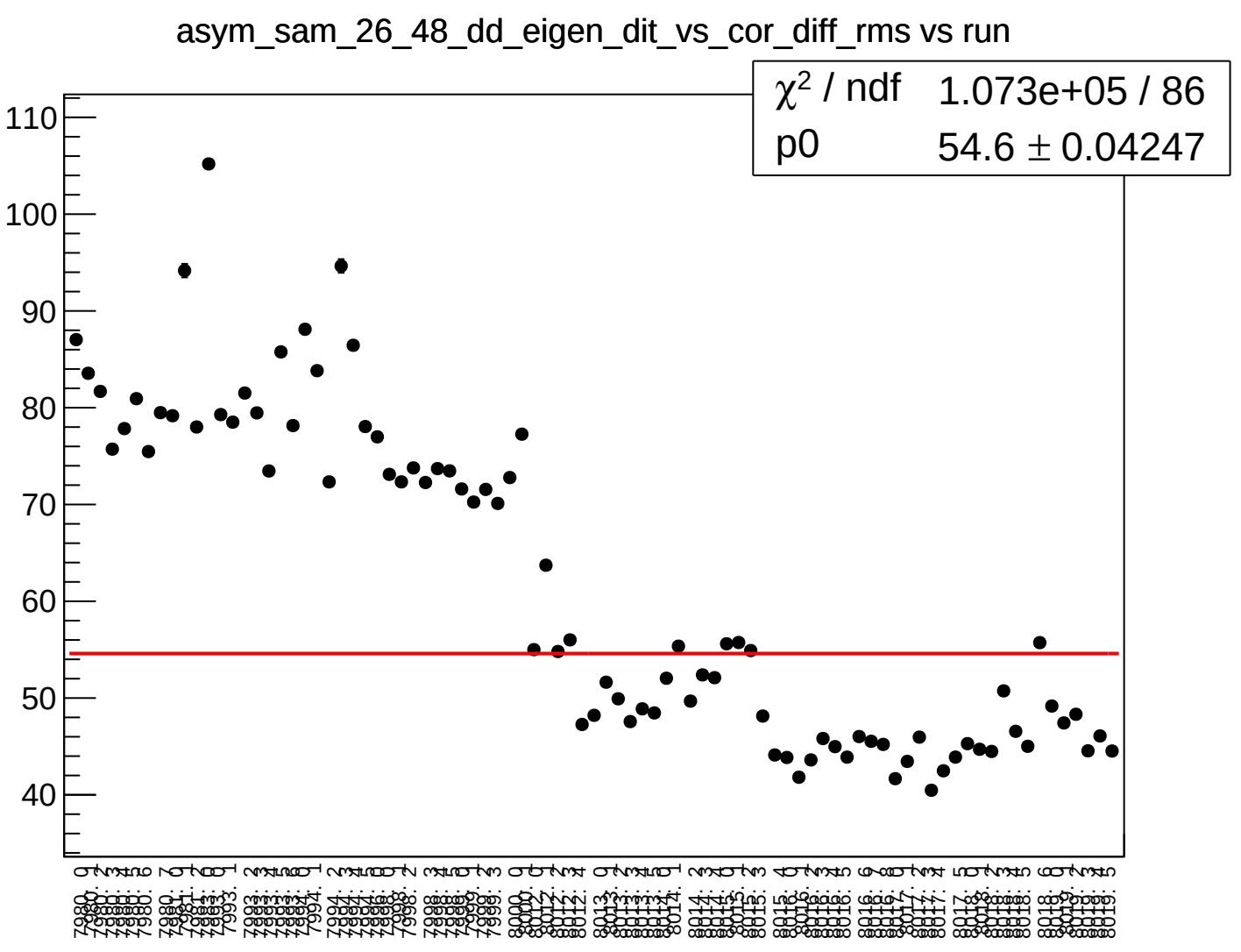

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.073e+05 / 86
p0 54.6 ± 0.04247
110
100
90
80
70
60
50
40

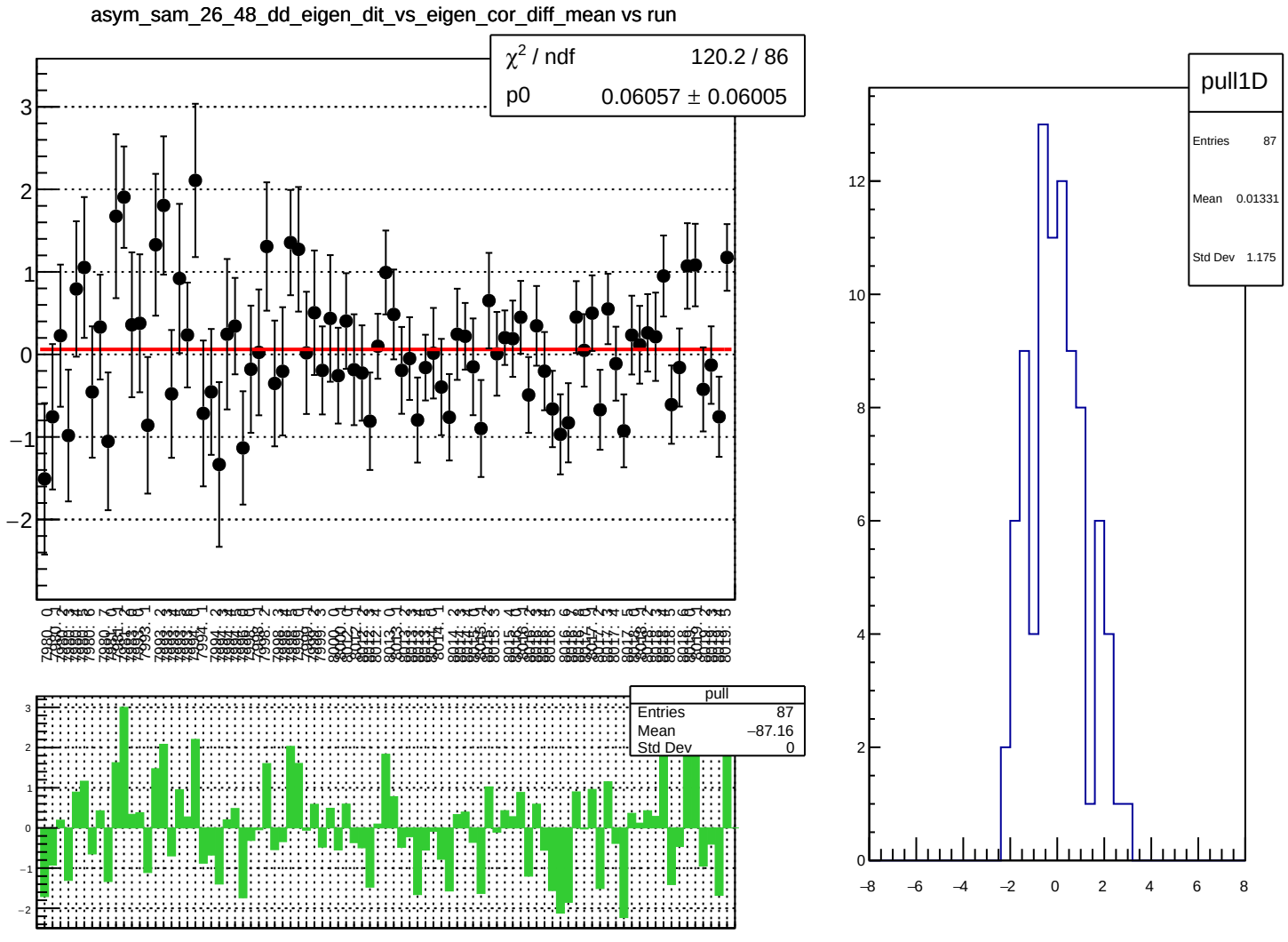

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 112.4 / 86
p0 3.143e−06 ± 4.871e−06
×10⁻³
pull
Entries 87
Mean 156.5
Std Dev 0

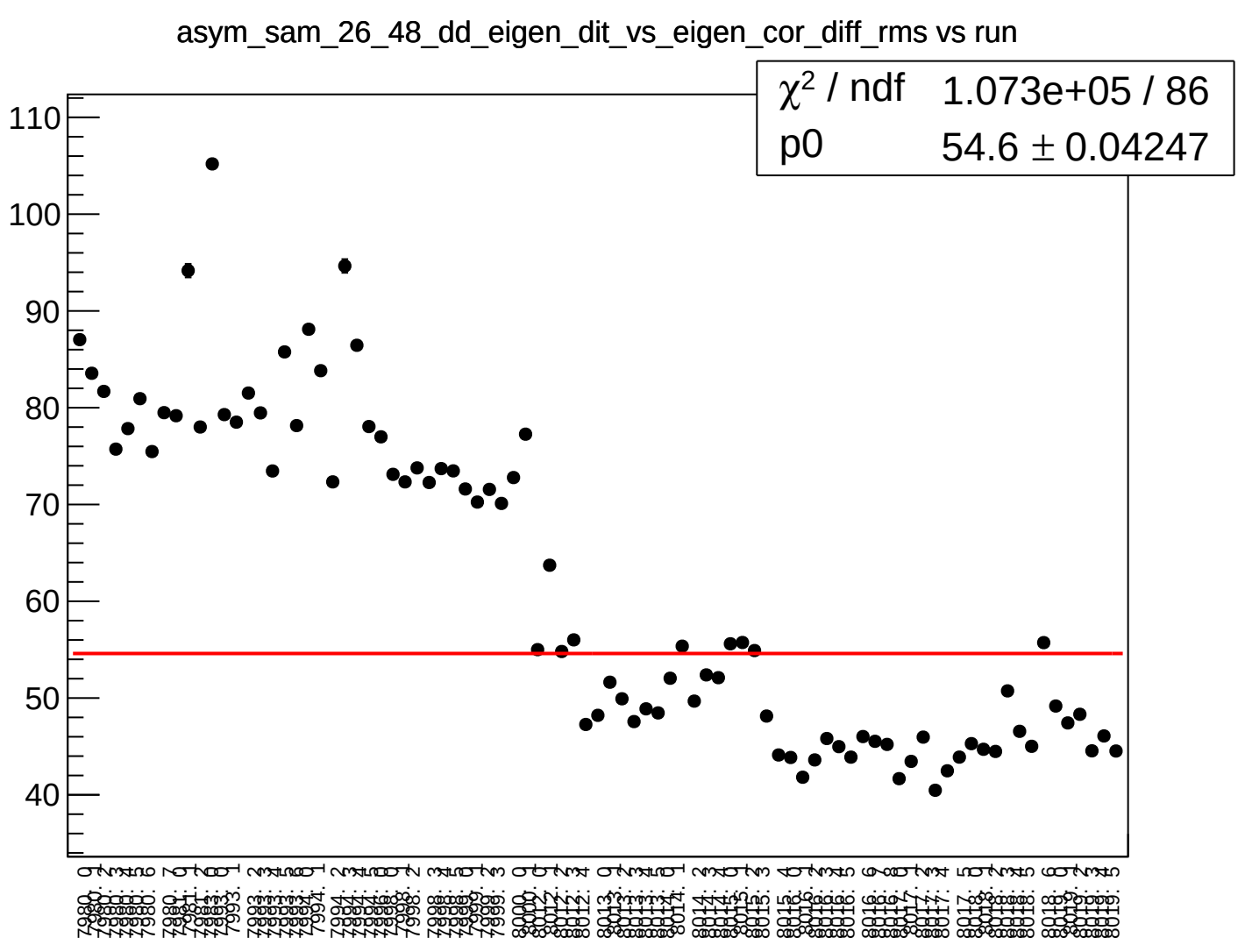

pull1D
Entries 87
Mean 0.02965
Std Dev 1.136

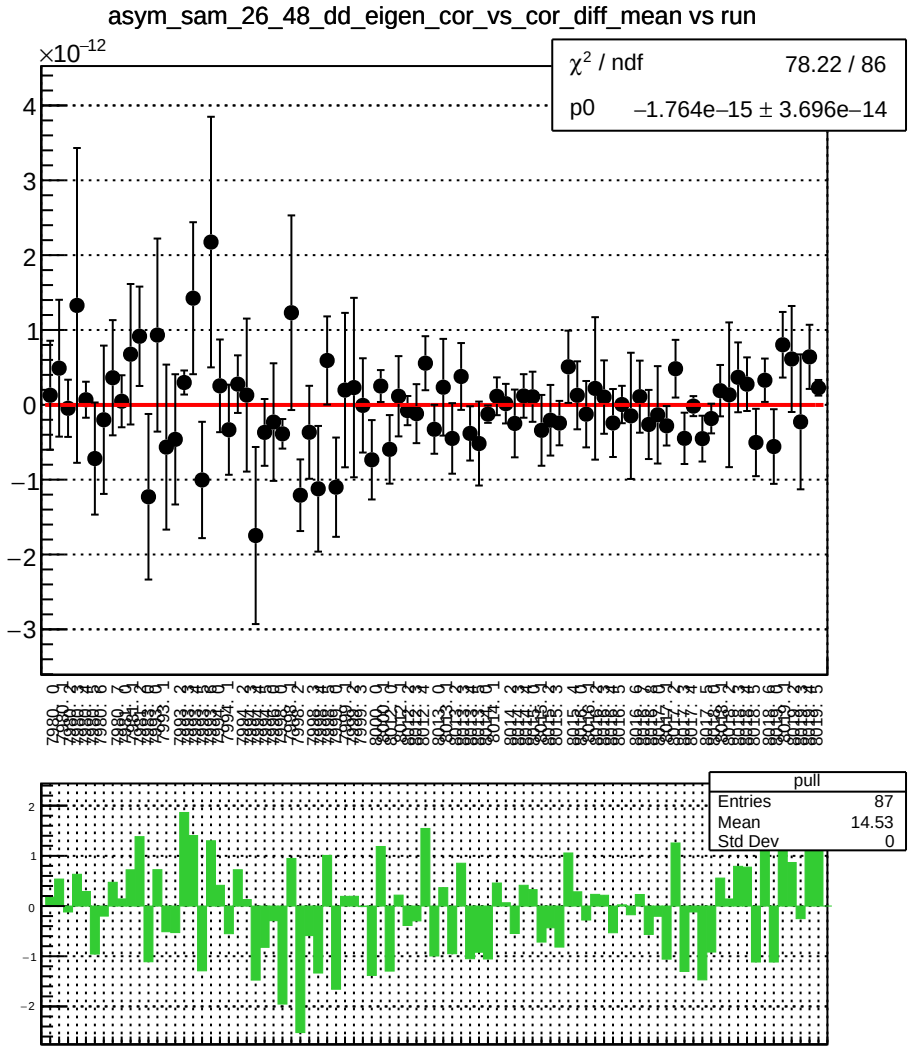

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.355e+04 / 86
p0 0.004461 ± 3.444e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

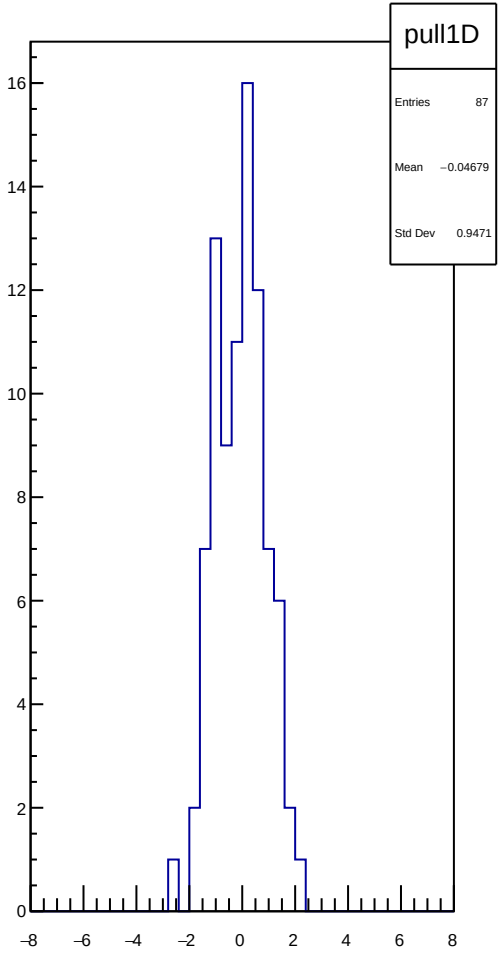

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 120.2 / 86
p0 0.06057 ± 0.06005
pull
Entries 87
Mean −87.16
Std Dev 0
pull1D
Entries 87
Mean 0.01331
Std Dev 1.175

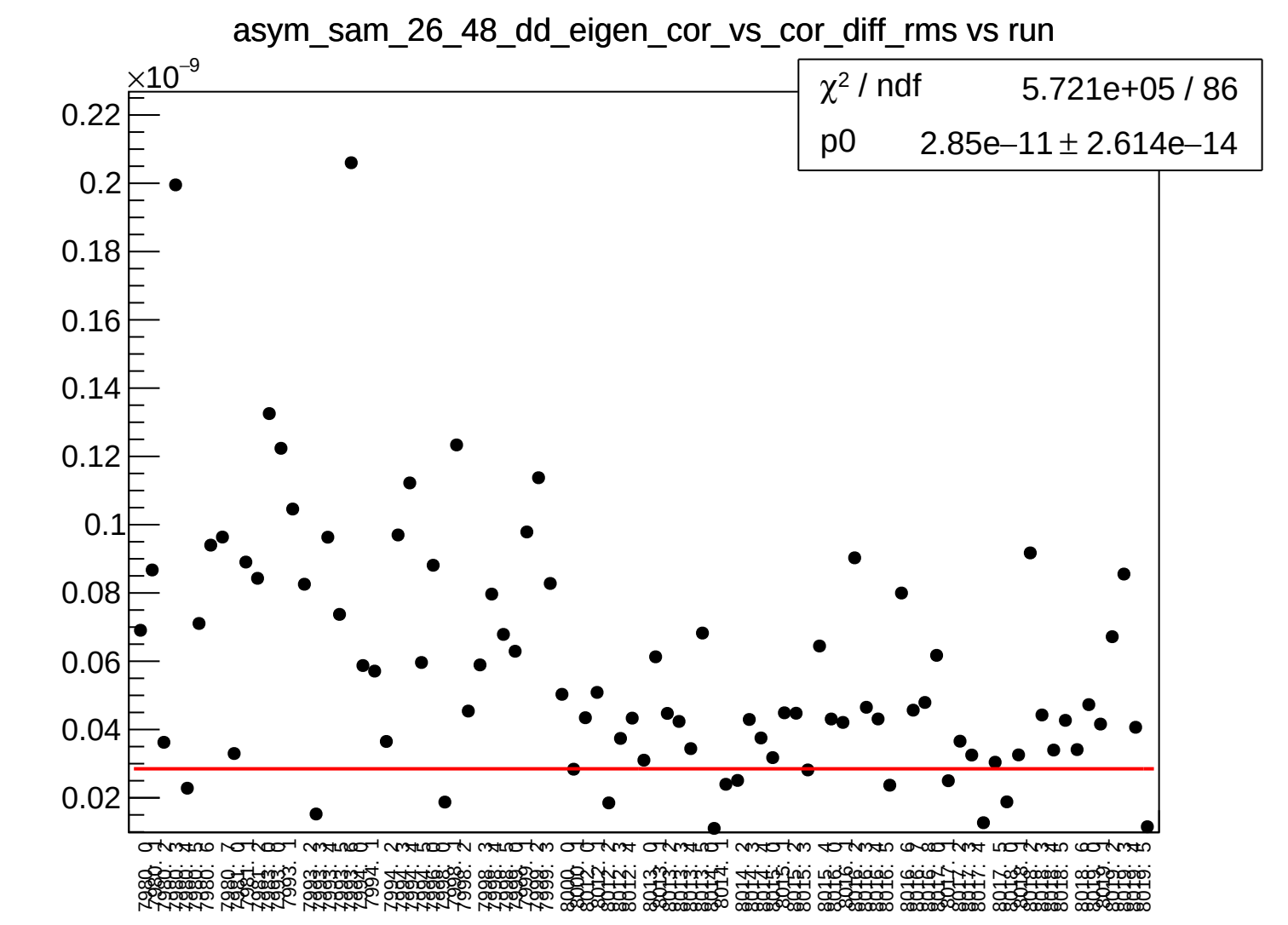

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.073e+05 / 86
p0 54.6 ± 0.04247
110
100
90
80
70
60
50
40

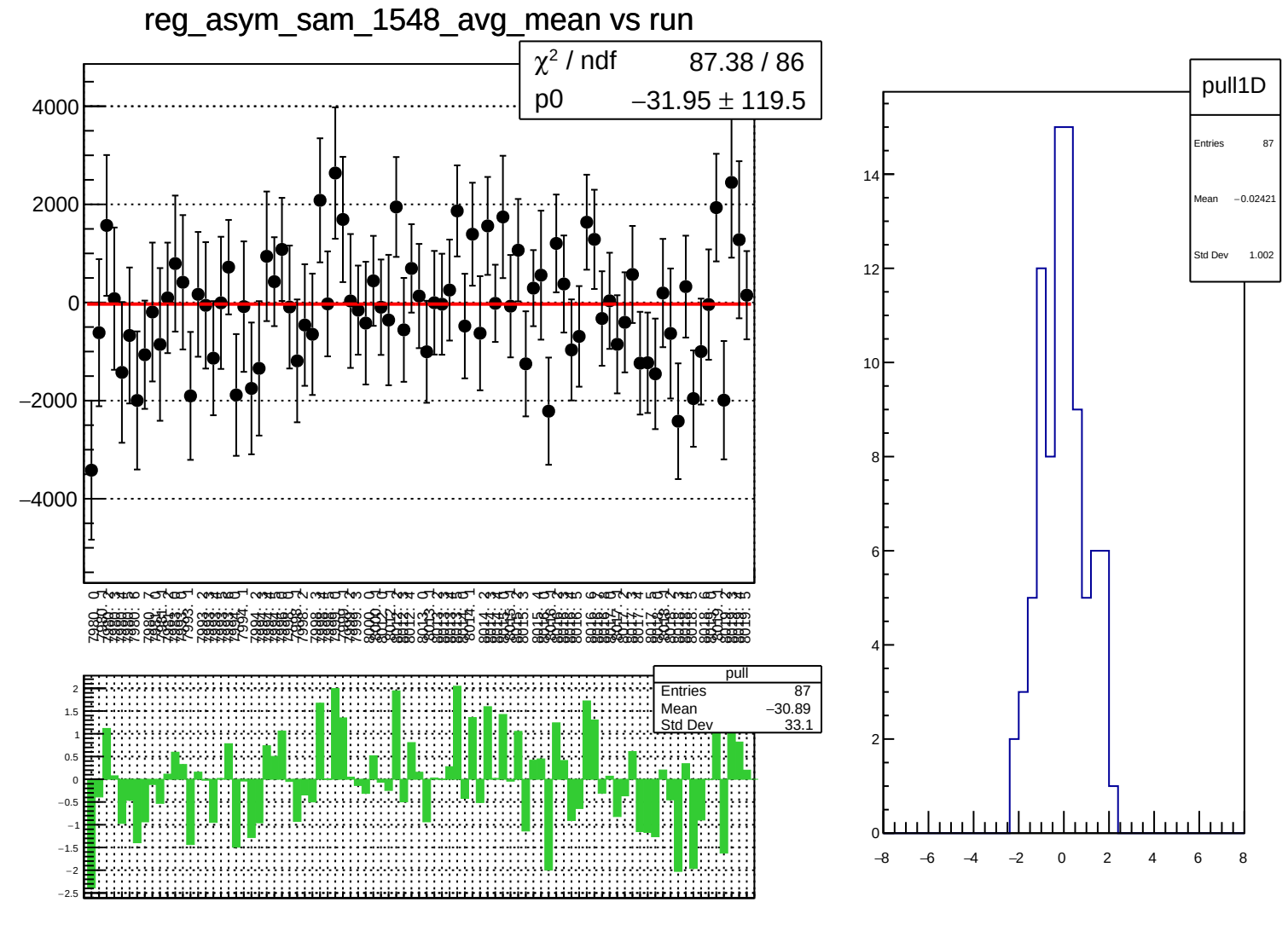

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.2 / 86
p0 0.06057 ± 0.06005
pull
Entries 87
Mean −87.16
Std Dev 0
pull1D
Entries 87
Mean 0.01331
Std Dev 1.175

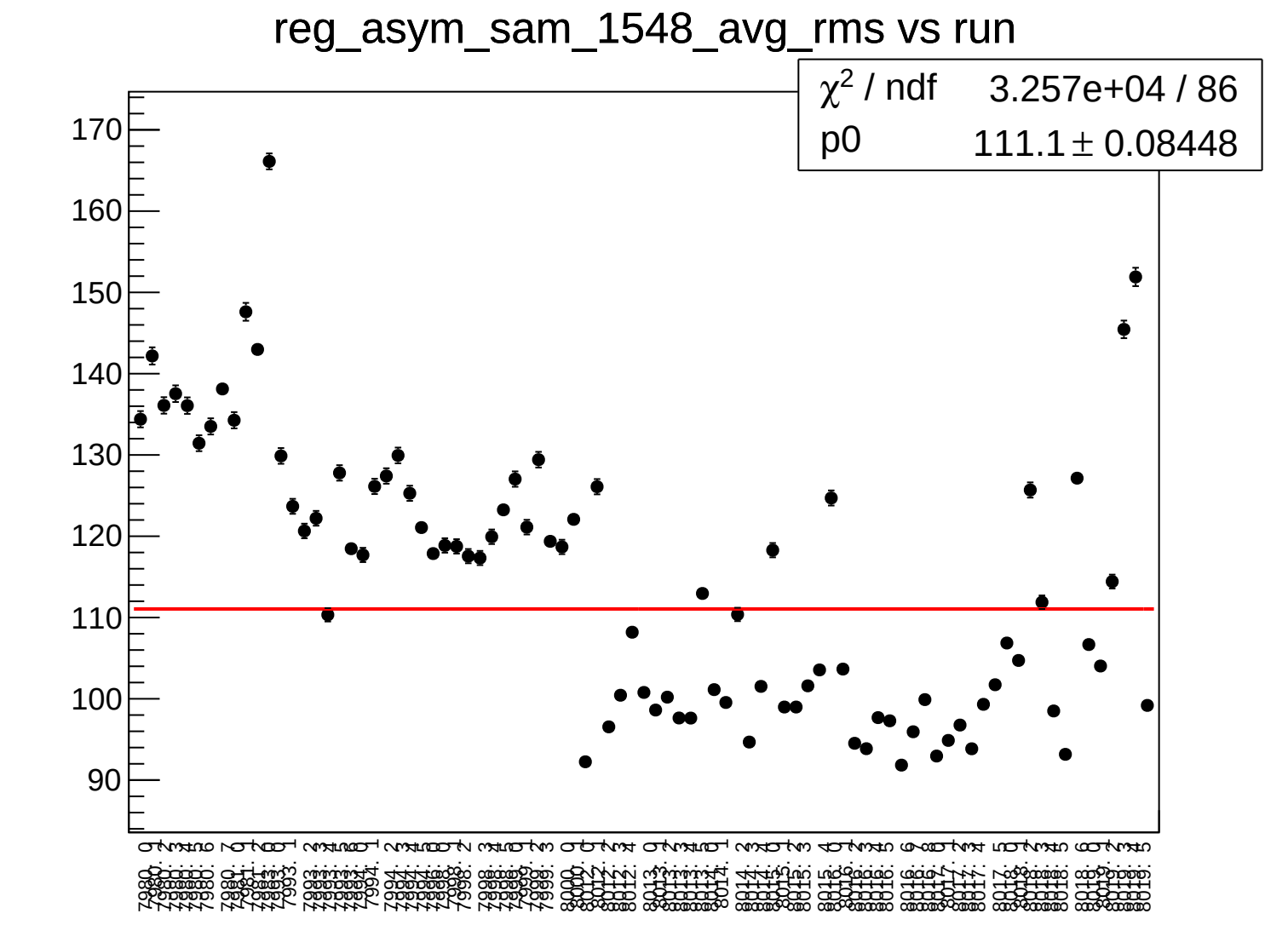

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.073e+05 / 86
p0 54.6 ± 0.04247
110
100
90
80
70
60
50
40

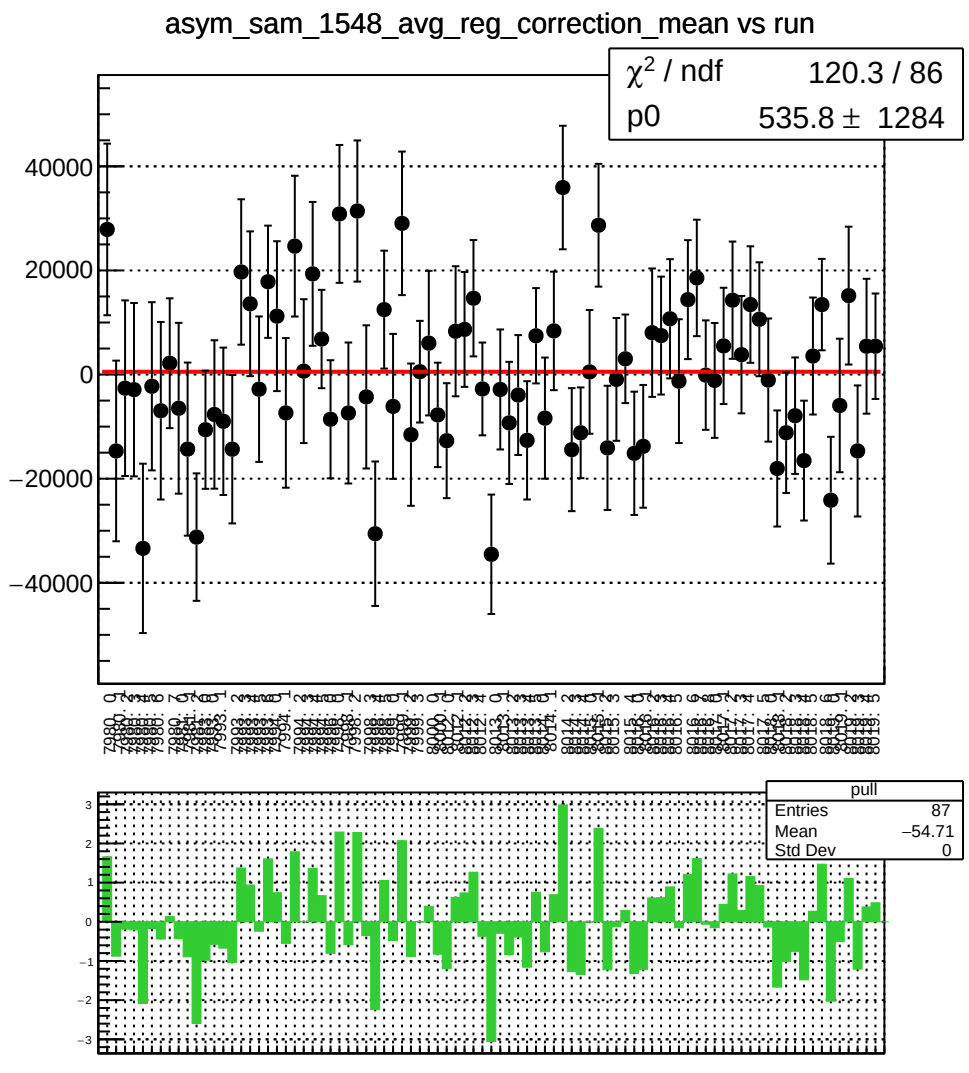

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.22 / 86
p0 −1.764e−15 ± 3.696e−14
pull
Entries 87
Mean 14.53
Std Dev 0

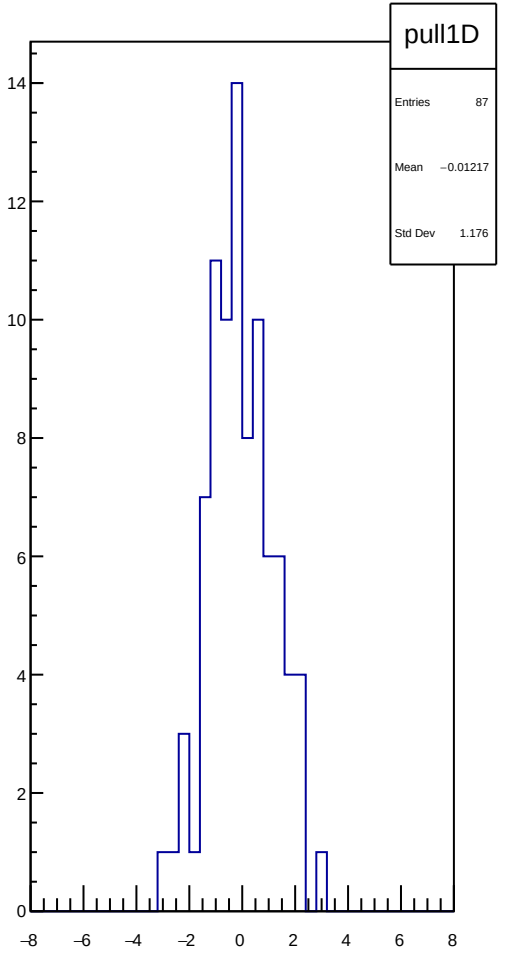

pull1D
Entries 87
Mean −0.04679
Std Dev 0.9471

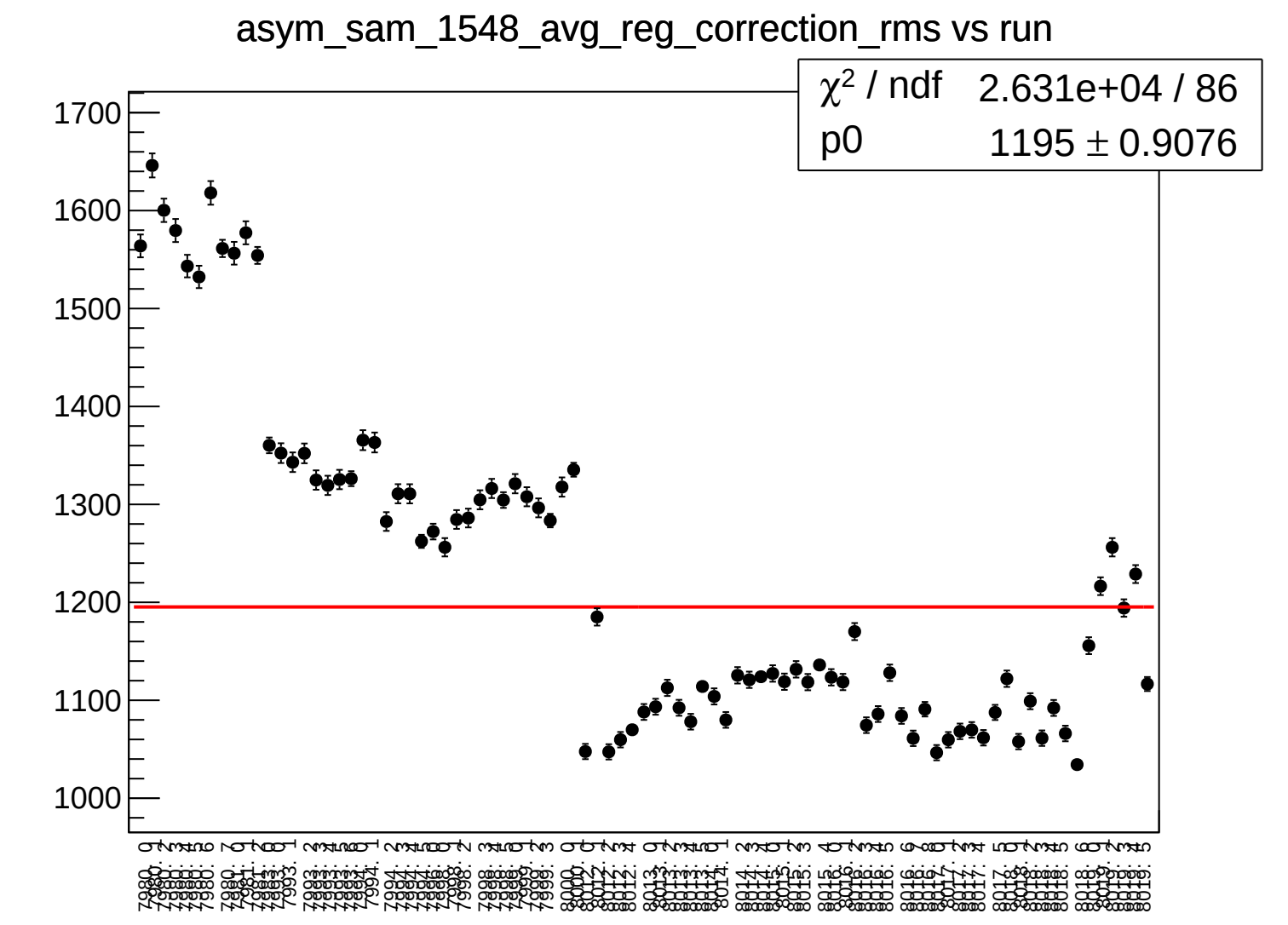

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.721e+05 / 86
p0 2.85e−11 ± 2.614e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

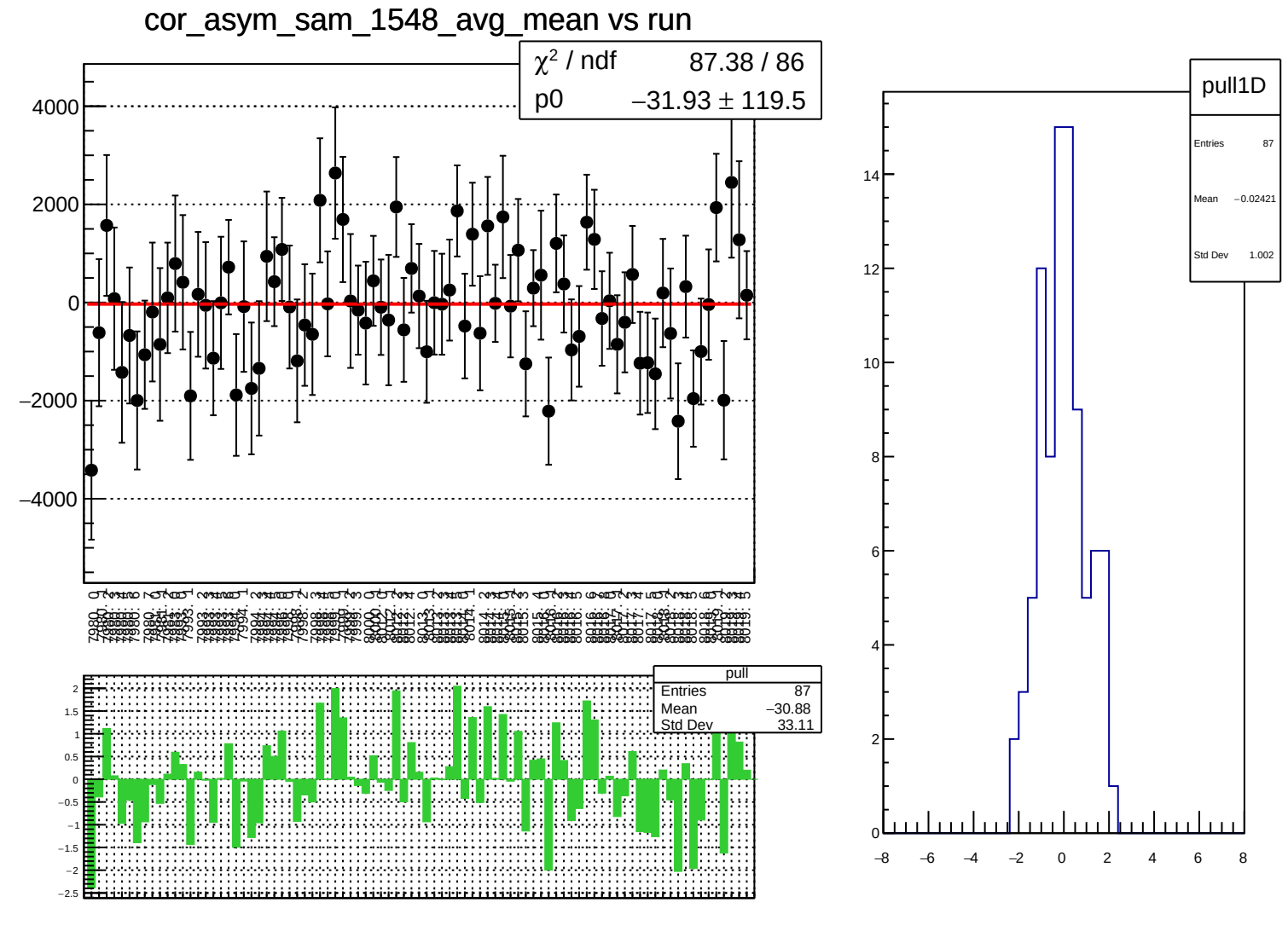

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 87.38 / 86
p0 −31.95 ± 119.5
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −30.89
Std Dev 33.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 87
Mean −0.02421
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

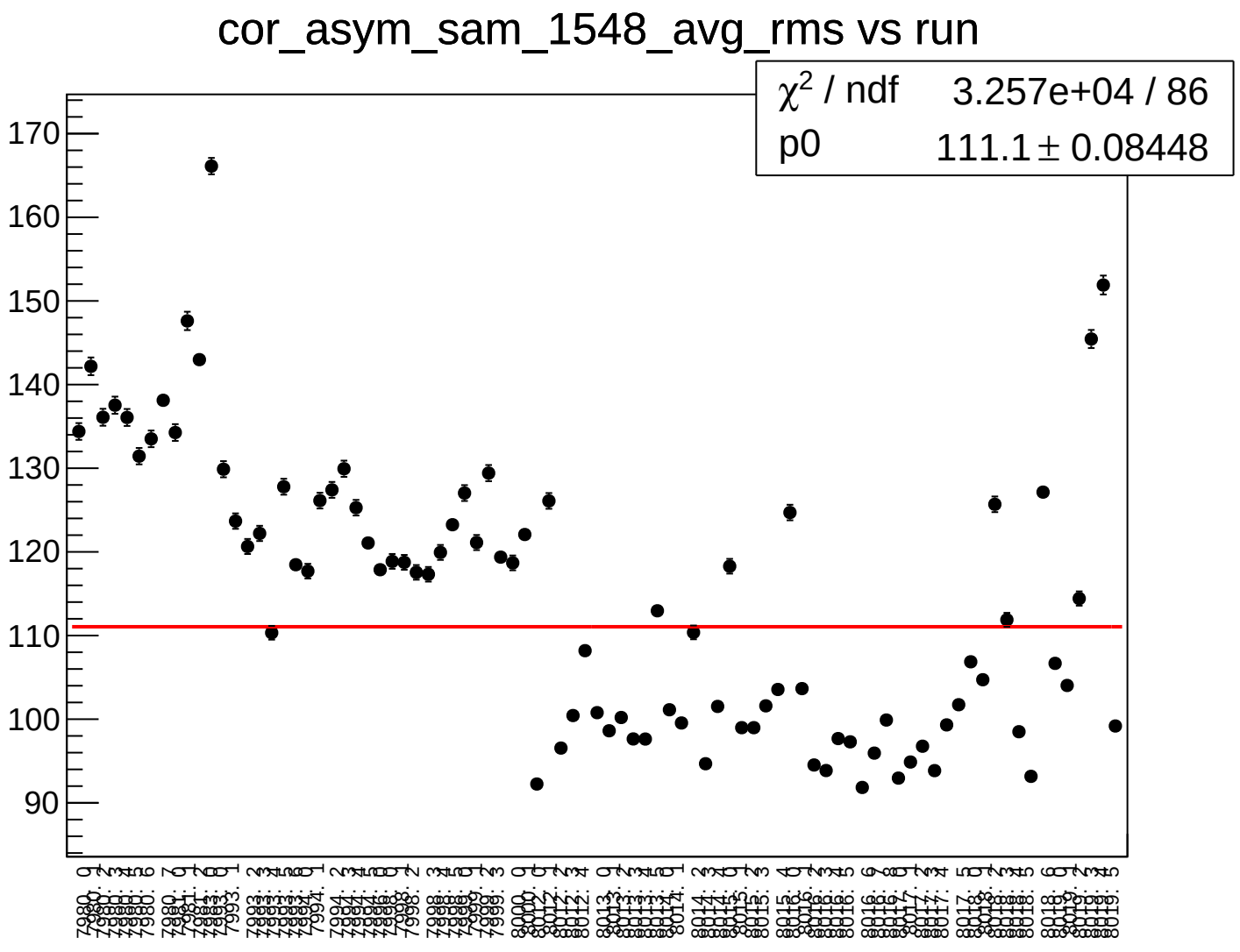

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 3.257e+04 / 86
p0 111.1 ± 0.08448
170
160
150
140
130
120
110
100
90

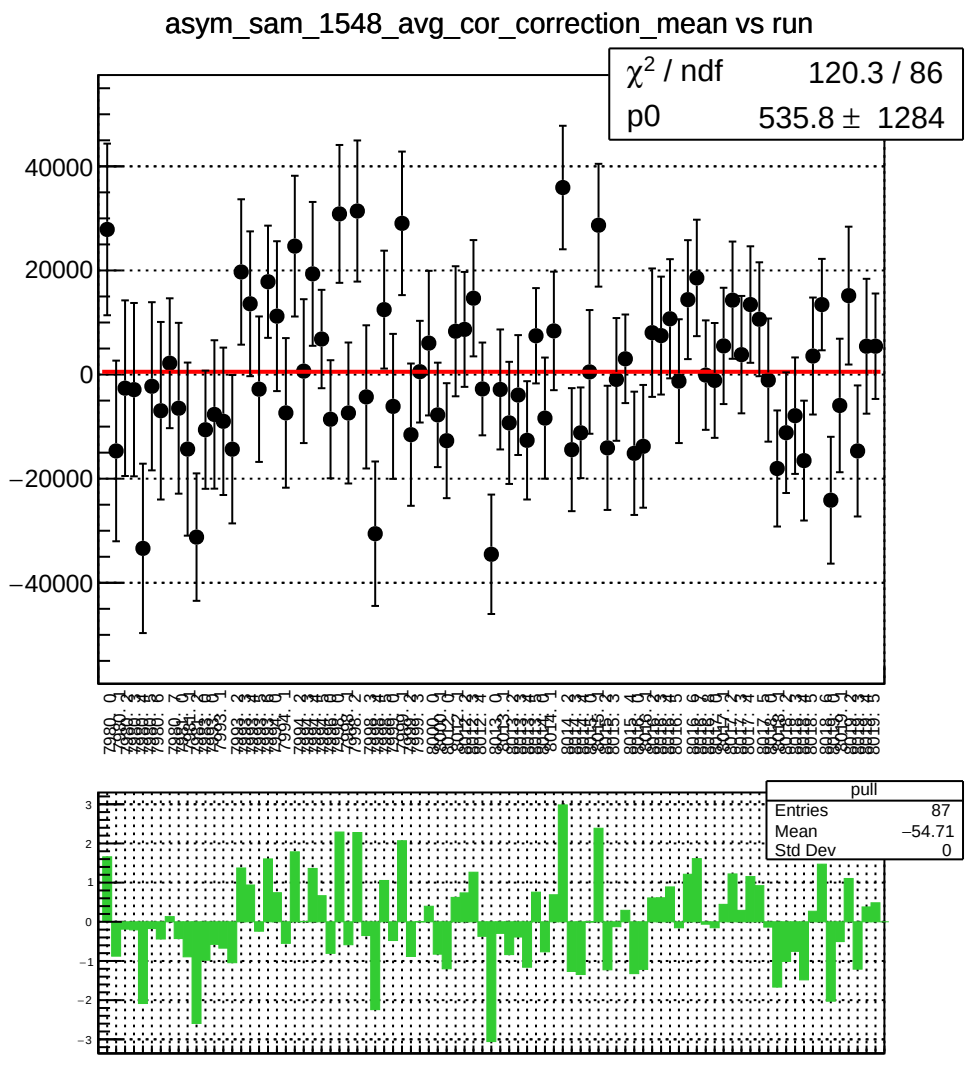

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 120.3 / 86
p0 535.8 ± 1284
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −54.71
Std Dev 0
3
2
1
0
−1
−2
−3

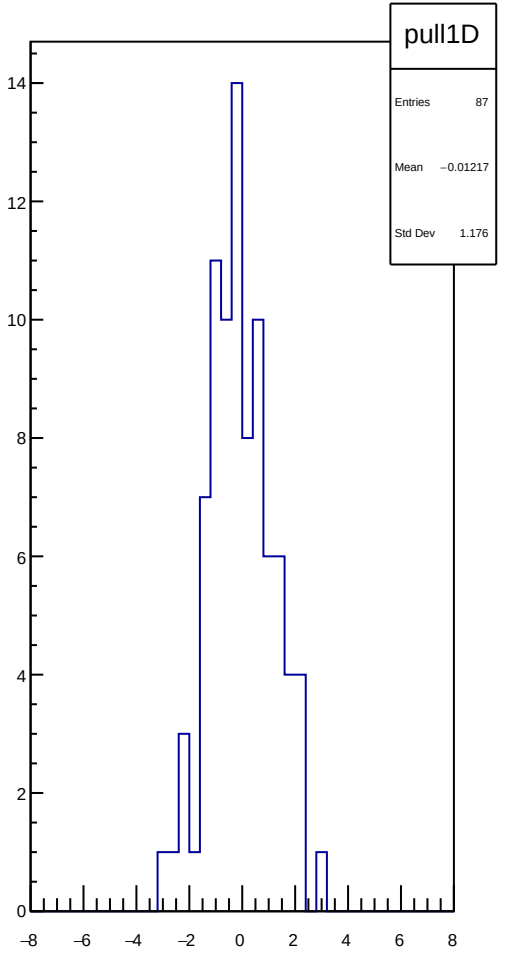

pull1D
Entries 87
Mean −0.01217
Std Dev 1.176
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 2.631e+04 / 86
p0 1195 ± 0.9076
1700
1600
1500
1400
1300
1200
1100
1000


cor_asym_sam_1548_avg_mean vs run
χ² / ndf 87.38 / 86
p0 −31.93 ± 119.5
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −30.88
Std Dev 33.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 87
Mean −0.02421
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 3.257e+04 / 86
p0 111.1 ± 0.08448
170
160
150
140
130
120
110
100
90


asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 120.3 / 86
p0 535.8 ± 1284
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −54.71
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean −0.01217
Std Dev 1.176
14
12
10
8
6
4
2
0
−8
−6
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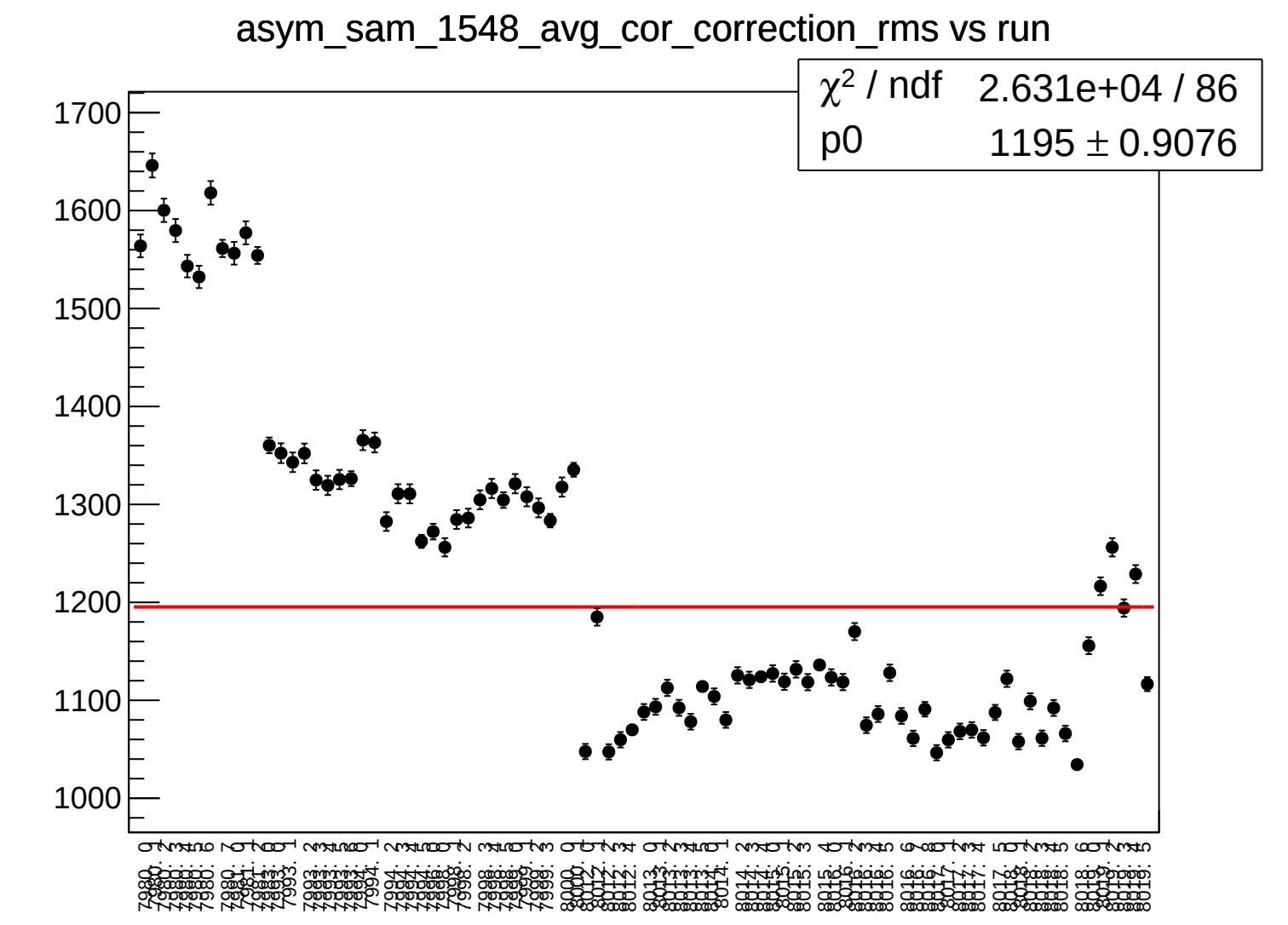
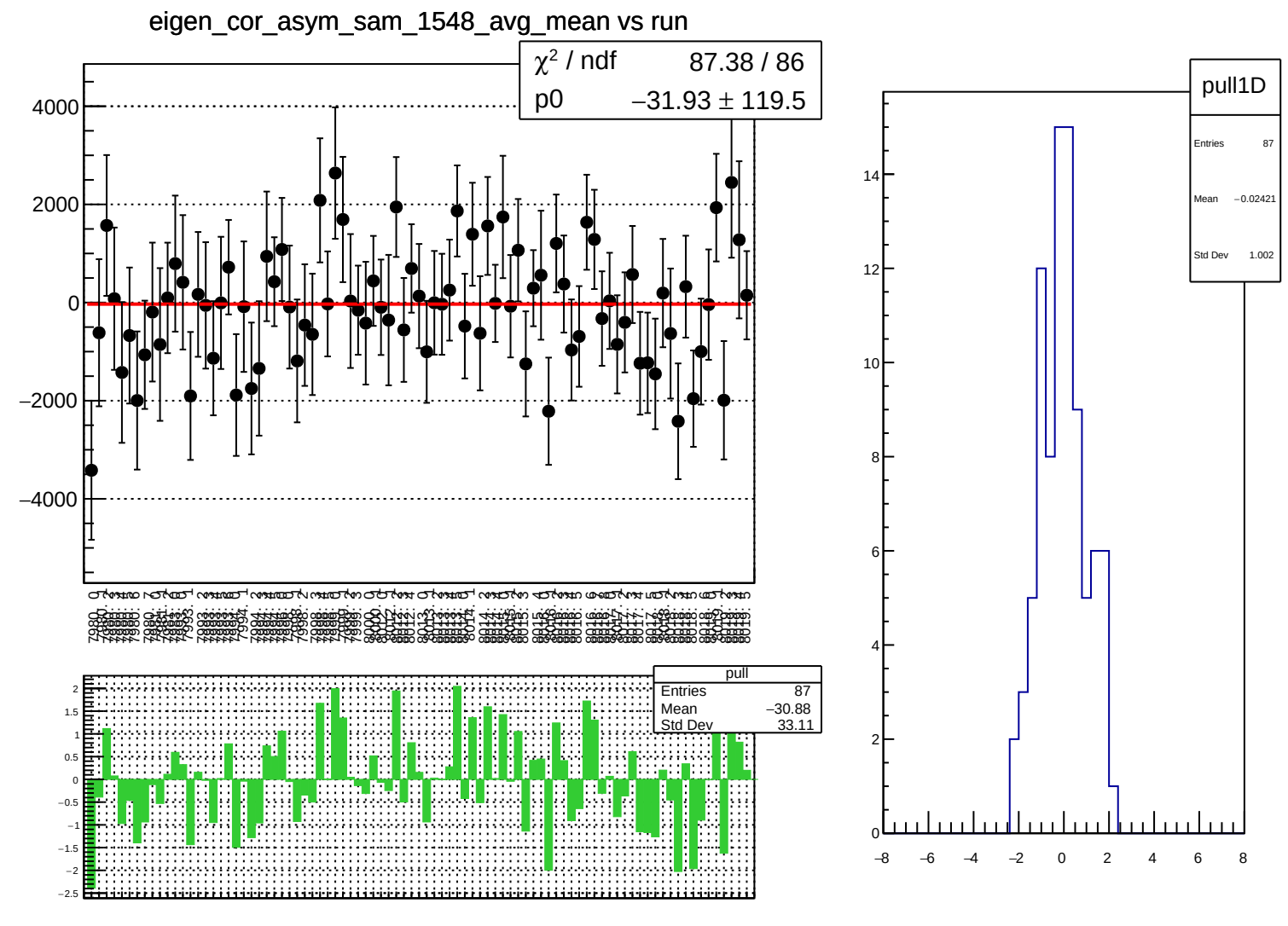
−2
0
2
4
6
8


asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 2.631e+04 / 86
p0 1195 ± 0.9076
1700
1600
1500
1400
1300
1200
1100
1000


eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 87.38 / 86
p0 −31.93 ± 119.5
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −30.88
Std Dev 33.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 87
Mean −0.02421
Std Dev 1.002
14
12
10
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6
4
2
0
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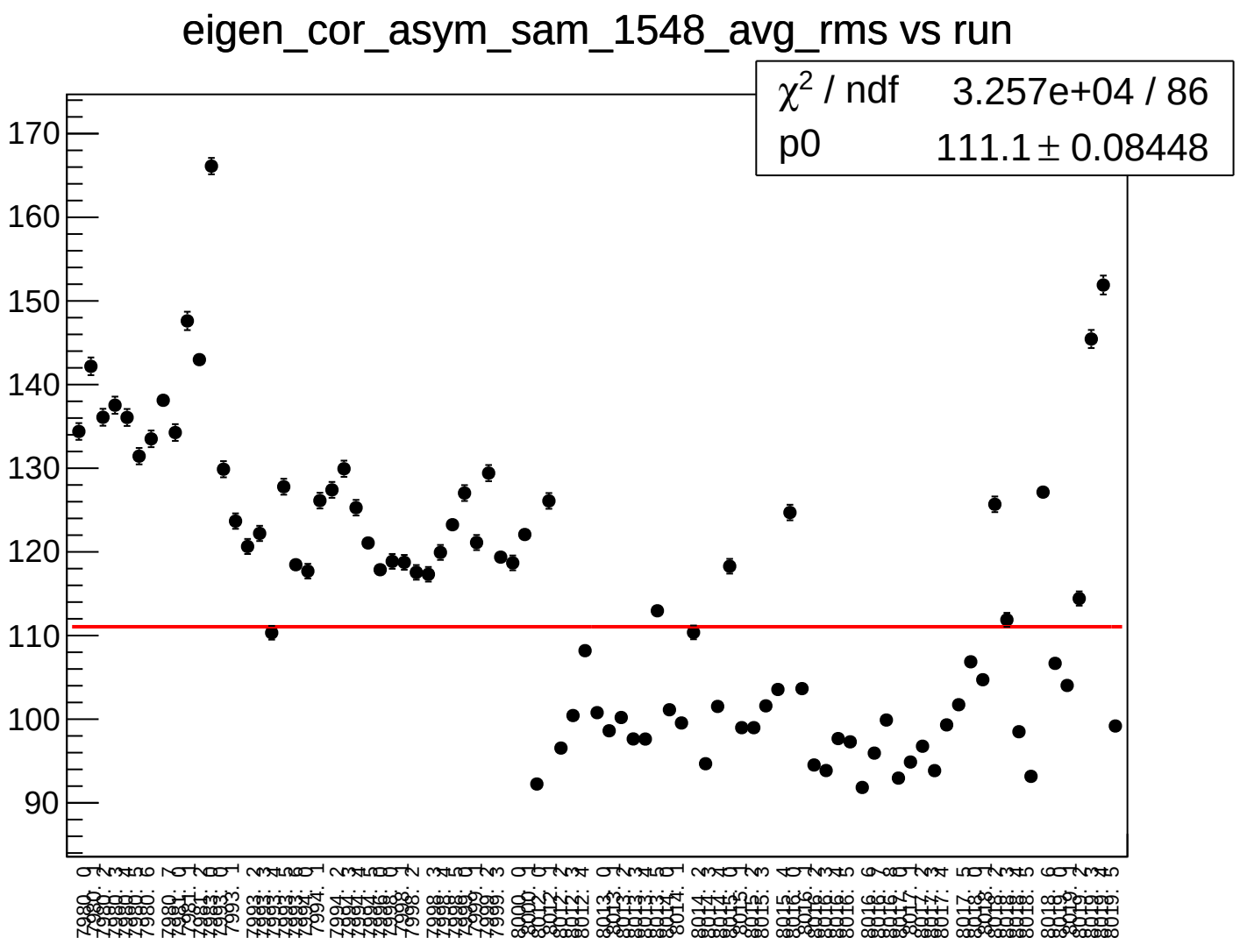
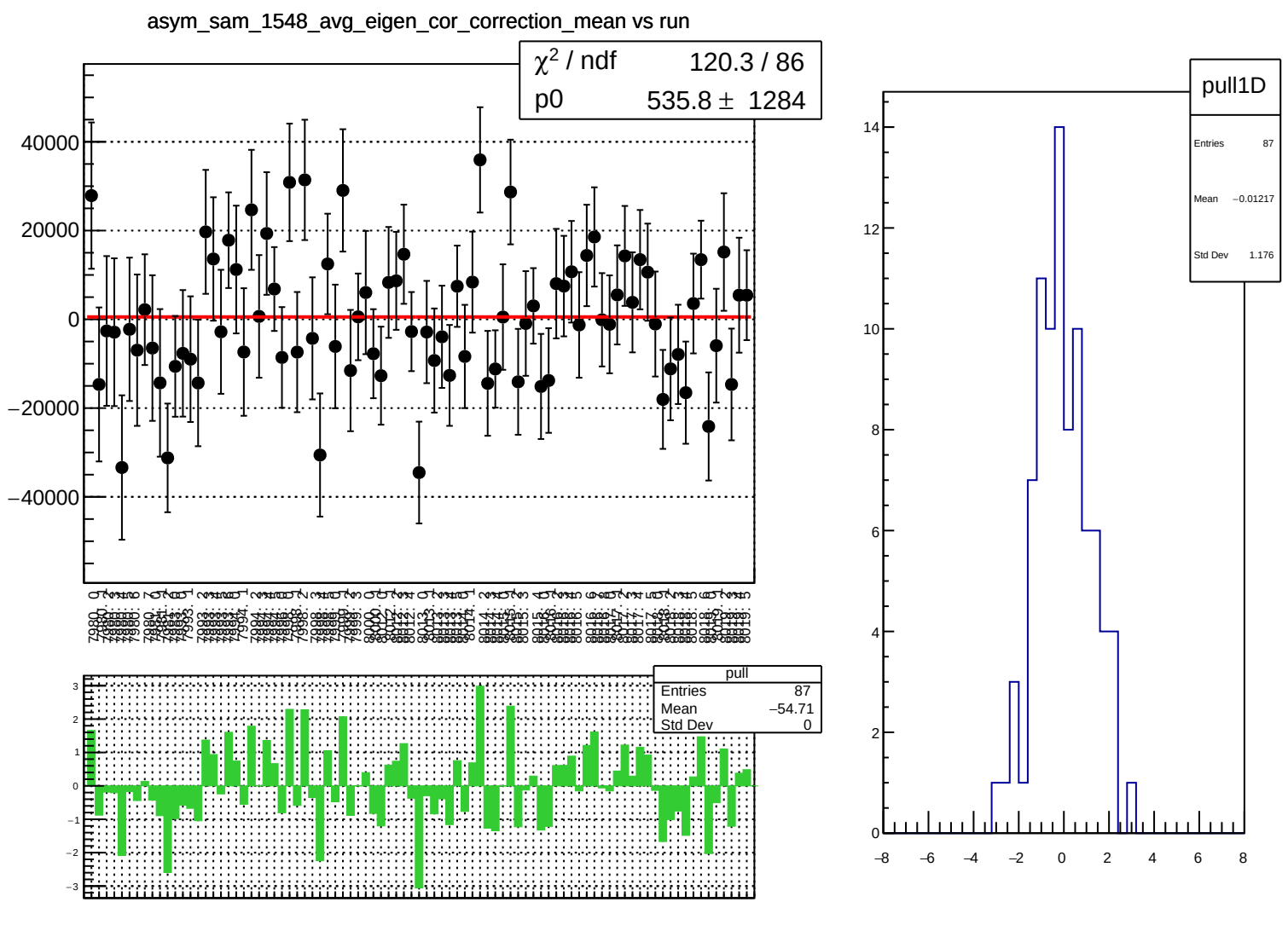
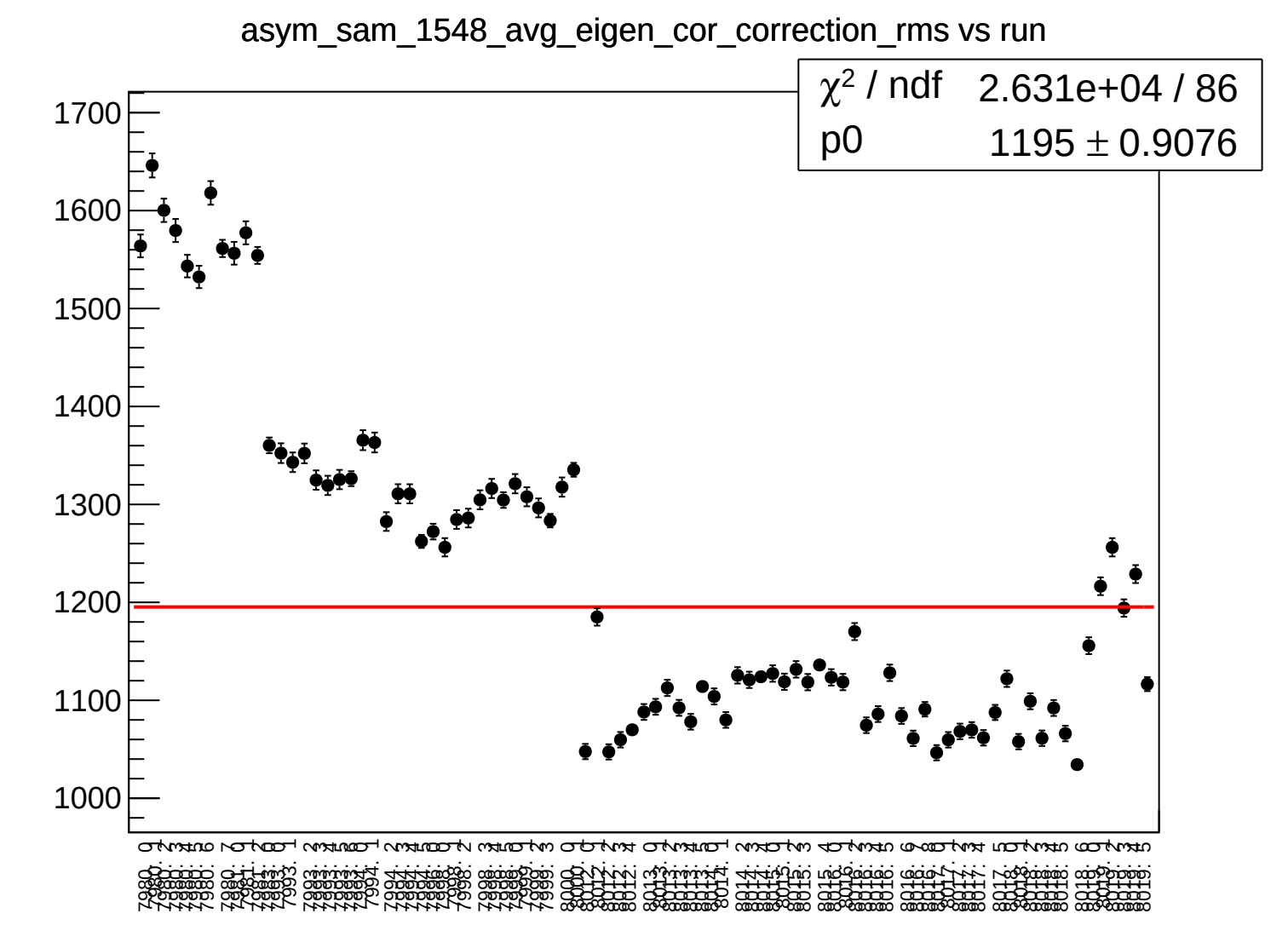
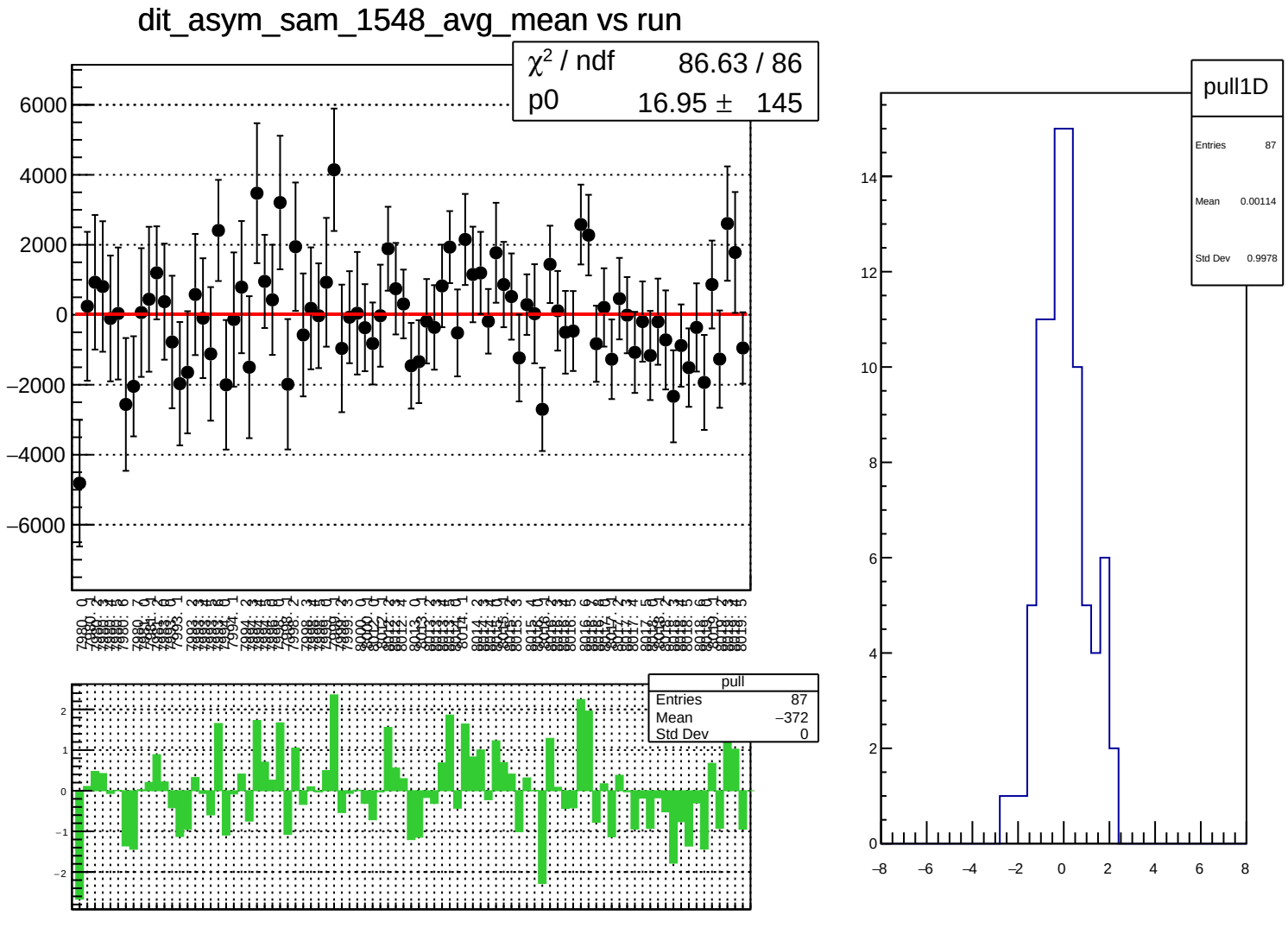
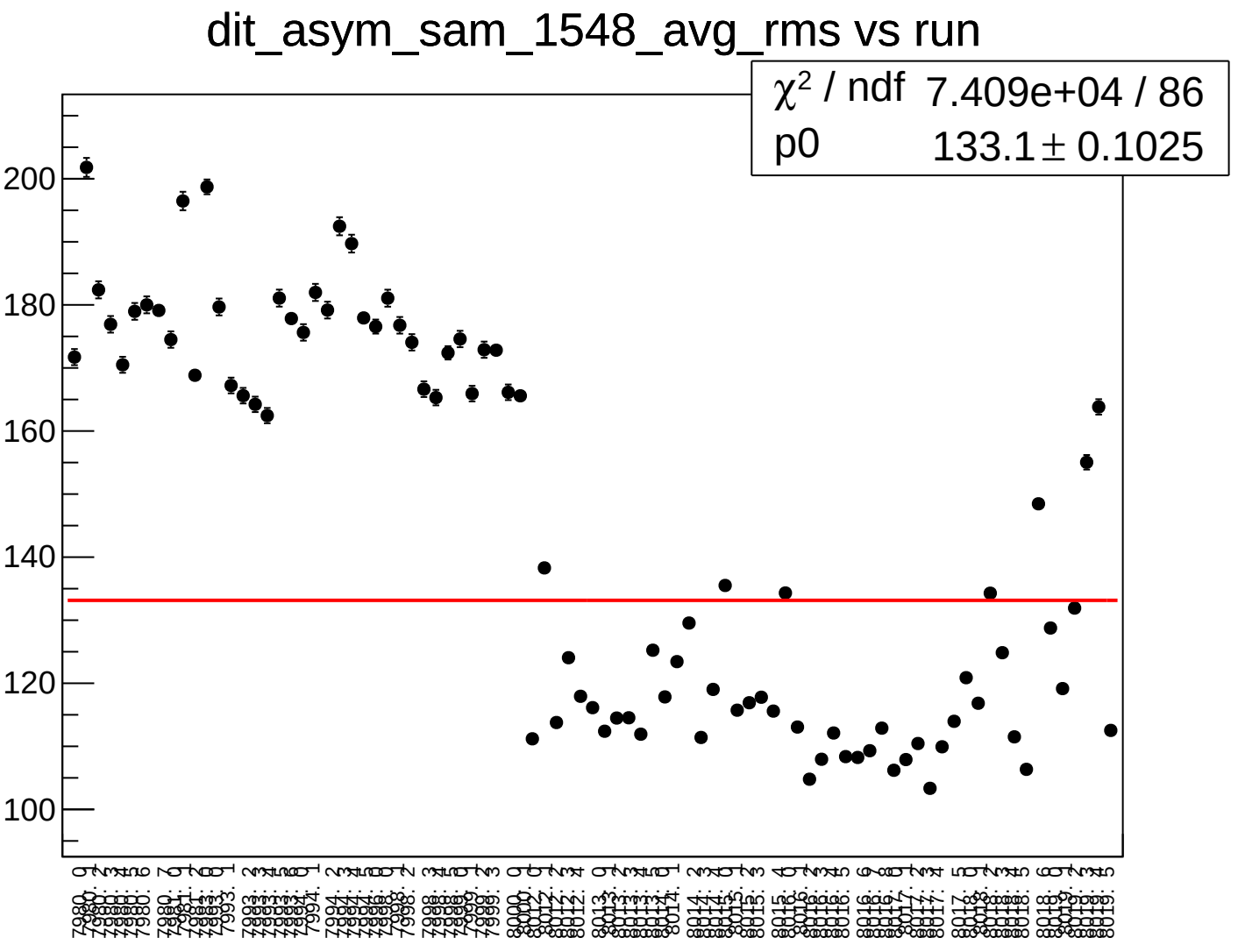
−4
−2
0
2
4
6
8

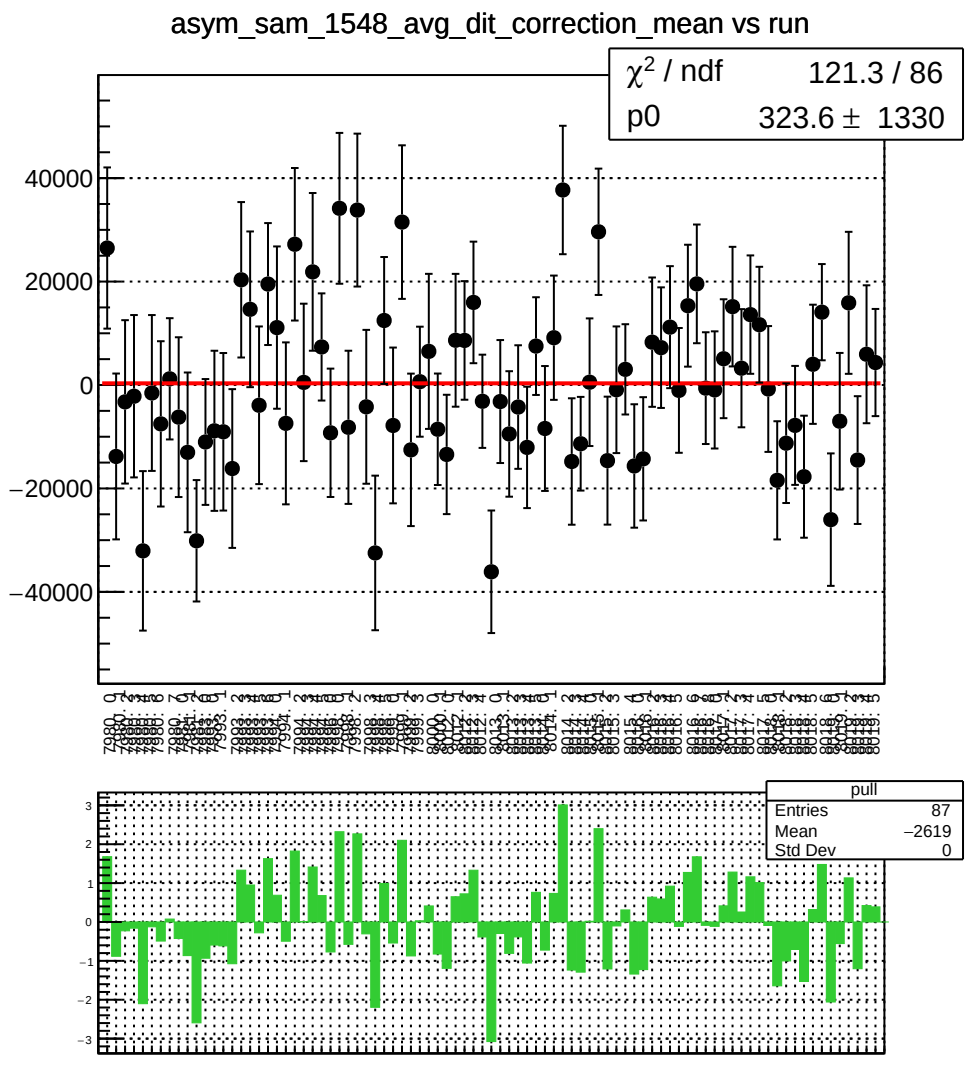

eigen_cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 3.257e+04 / 86
p0 111.1 ± 0.08448
170
160
150
140
130
120
110
100
90

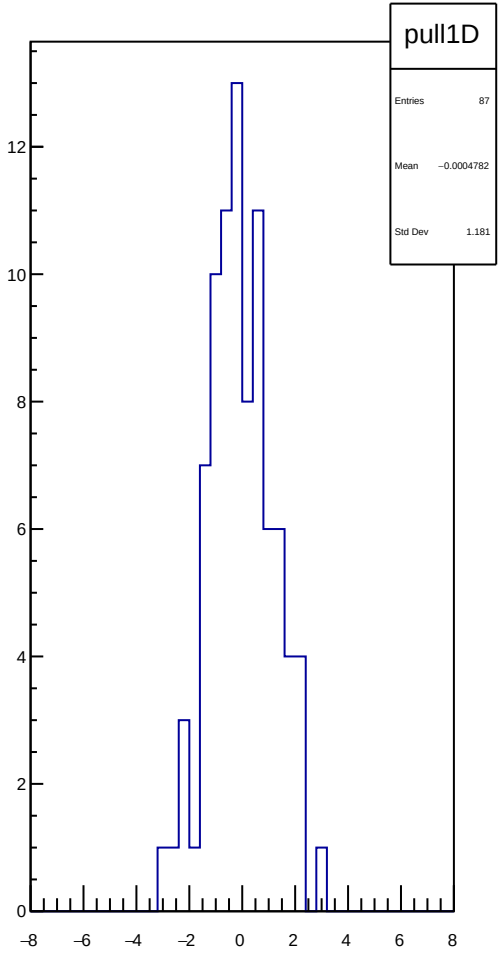

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 120.3 / 86
p0 535.8 ± 1284
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −54.71
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.01217
Std Dev 1.176
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

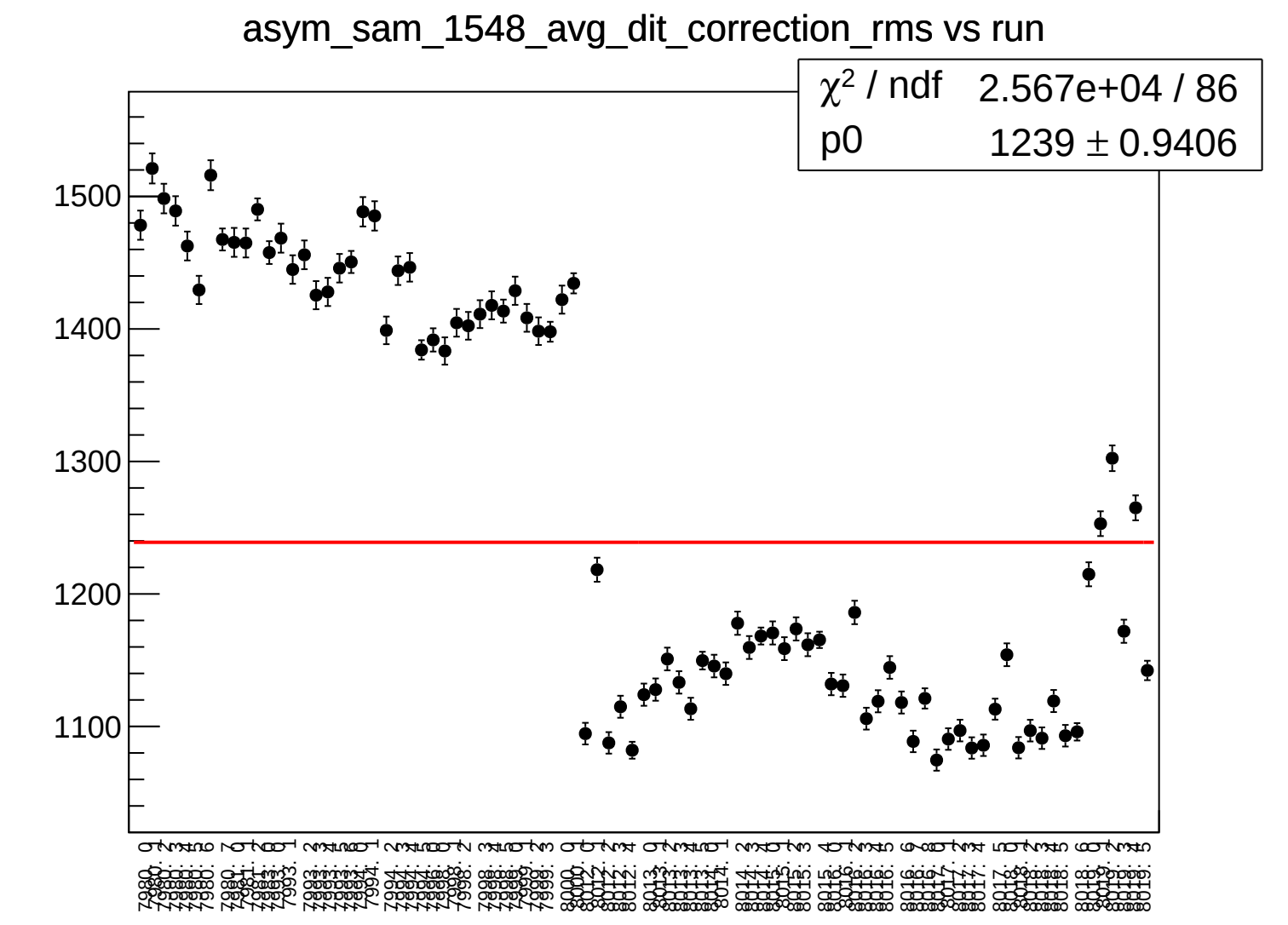

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.631e+04 / 86
p0 1195 ± 0.9076
1700
1600
1500
1400
1300
1200
1100
1000

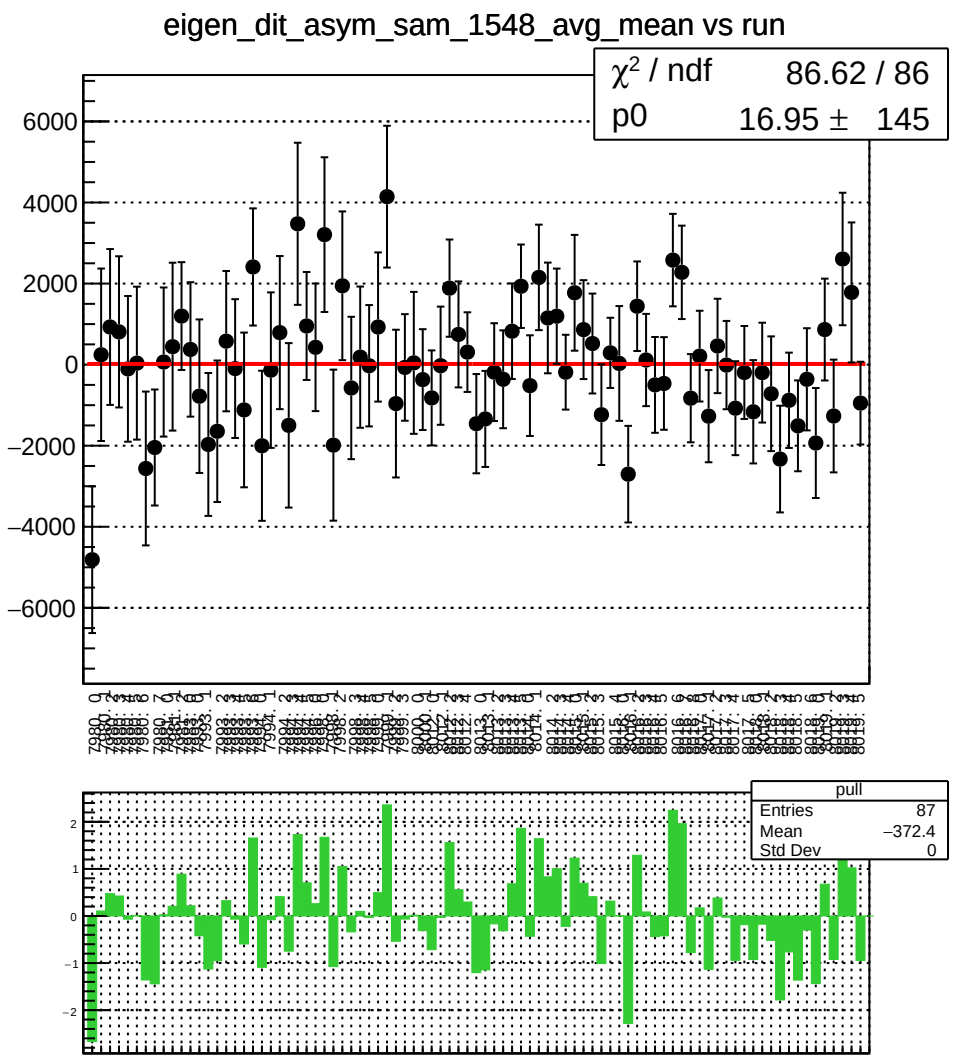

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 86.63 / 86
p0 16.95 ± 145
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −372
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.00114
Std Dev 0.9978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

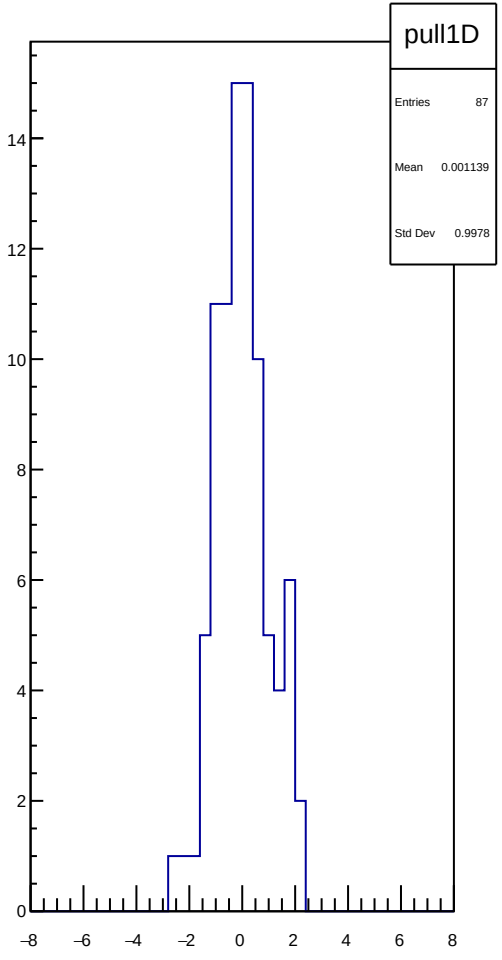

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 7.409e+04 / 86
p0 133.1 ± 0.1025
200
180
160
140
120
100

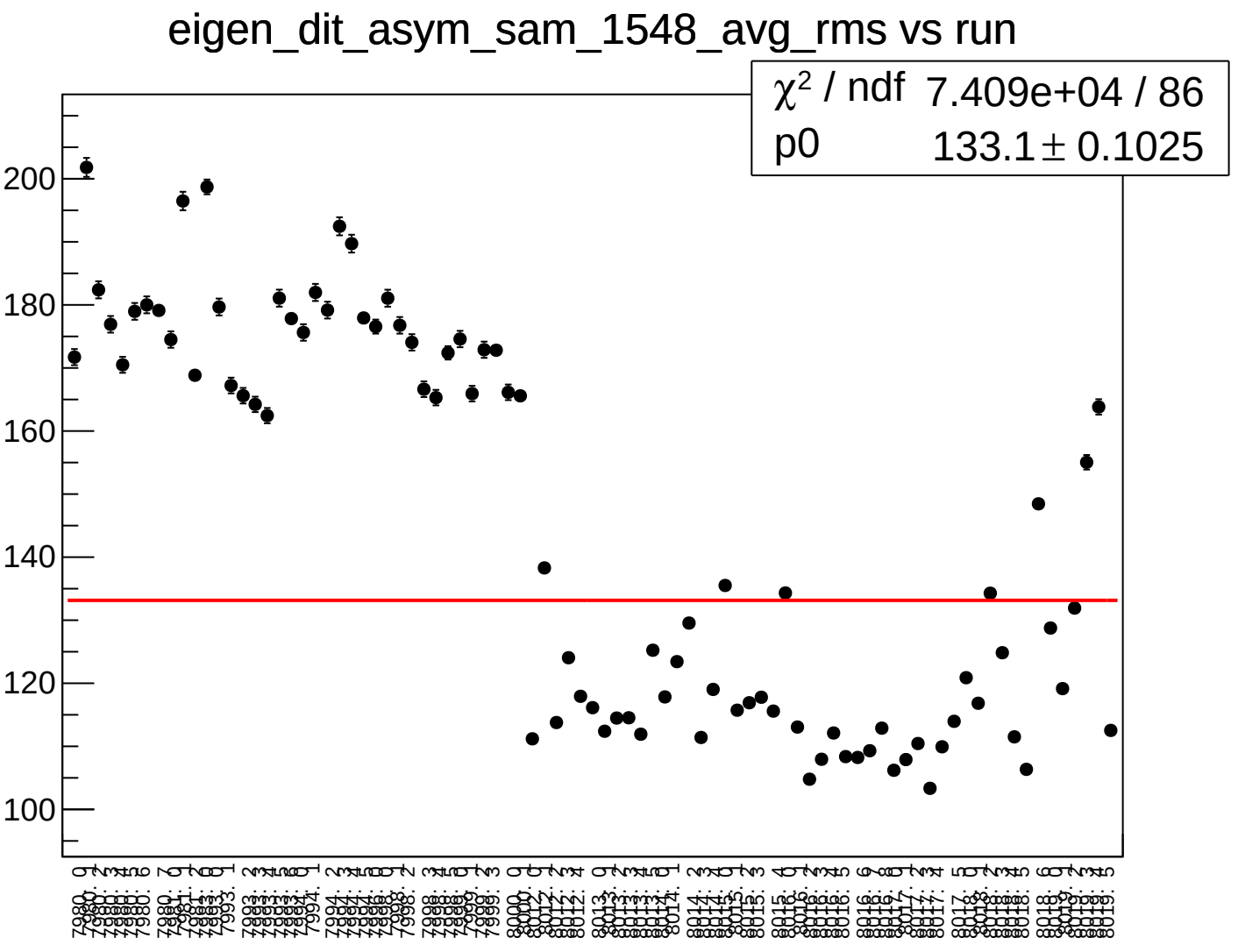

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 121.3 / 86
p0 323.6 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −2619
Std Dev 0
3
2
1
0
−1
−2
−3

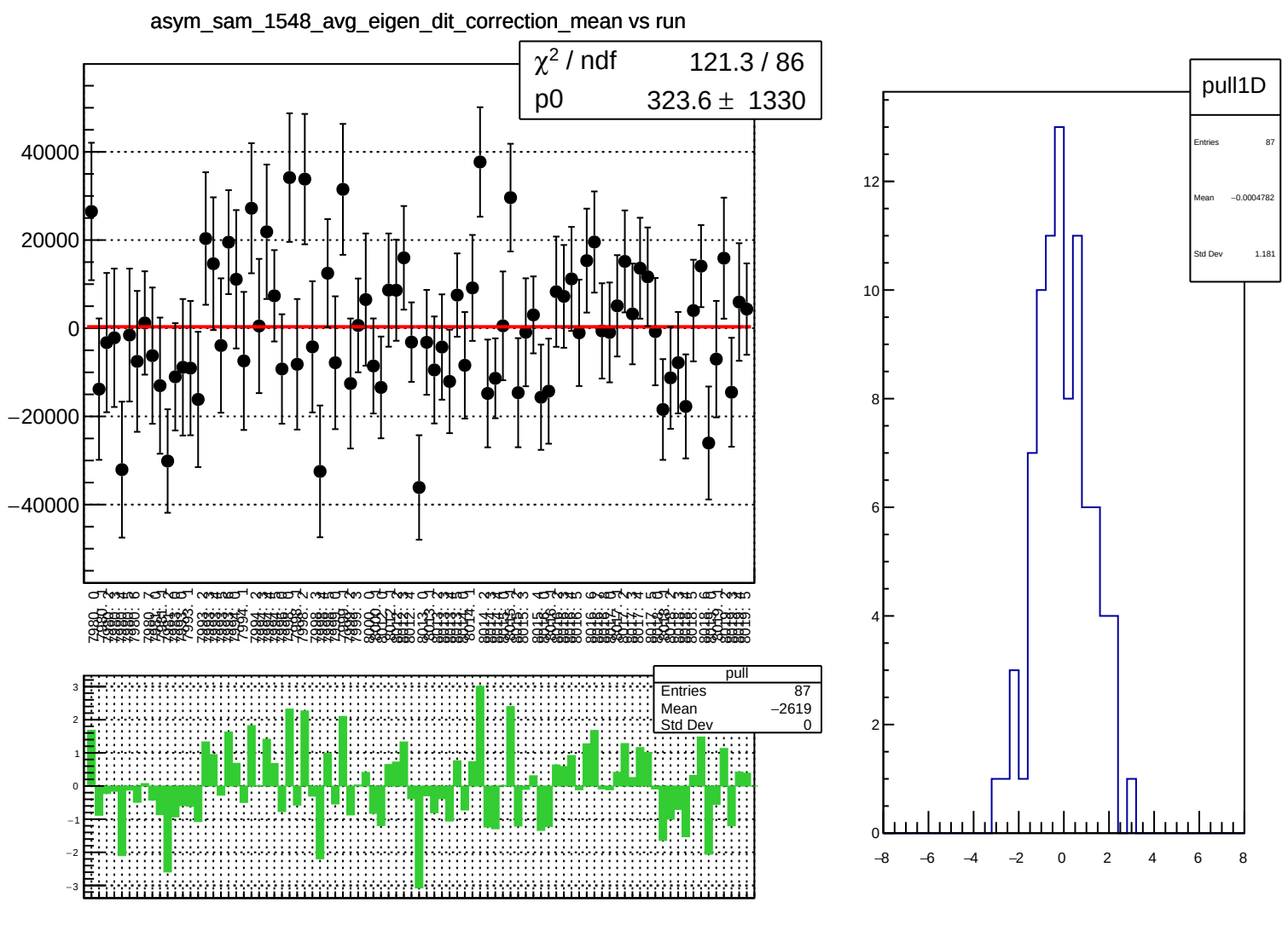

pull1D
Entries 87
Mean −0.0004782
Std Dev 1.181
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

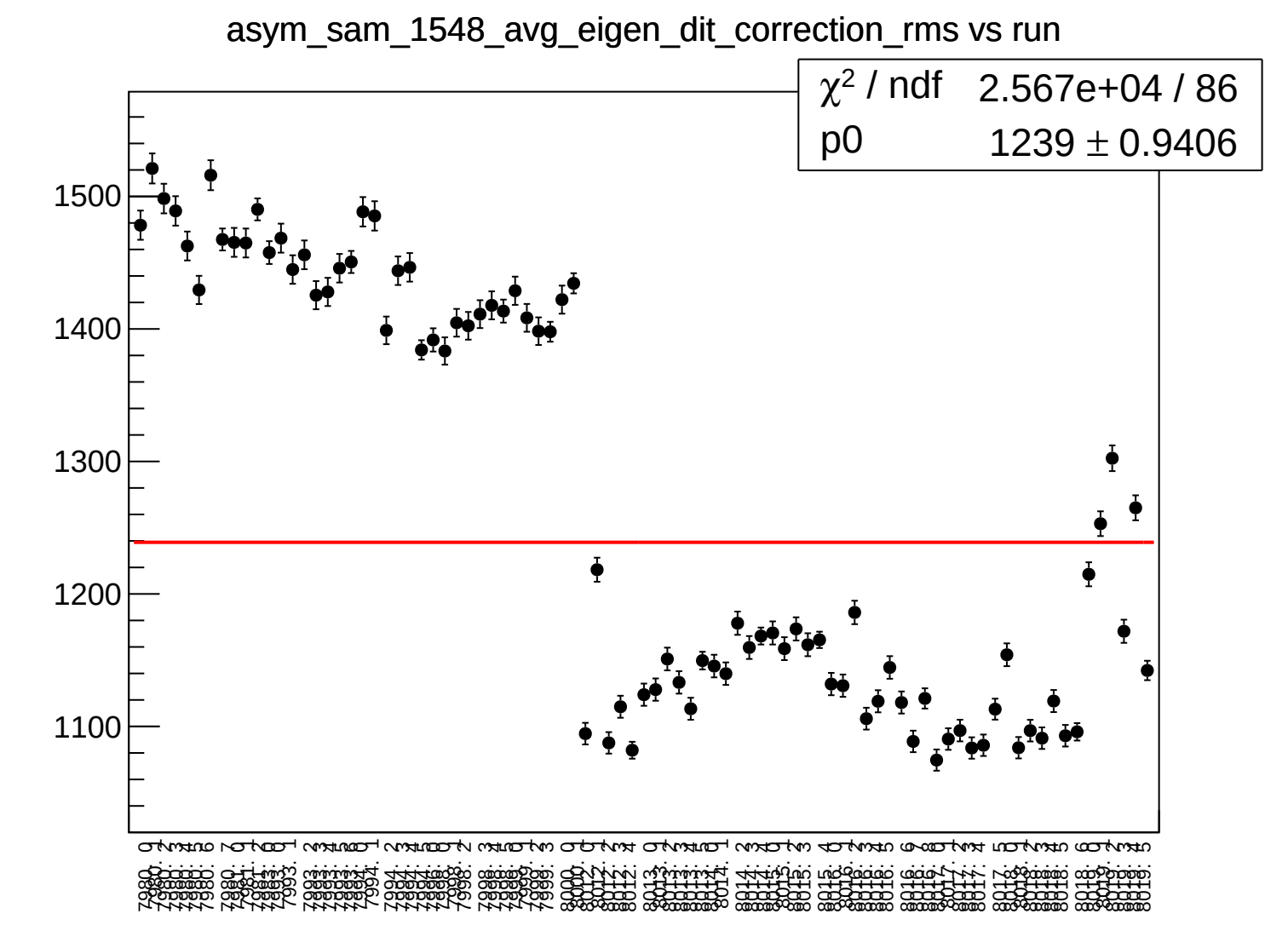

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 2.567e+04 / 86
p0 1239 ± 0.9406
1500
1400
1300
1200
1100

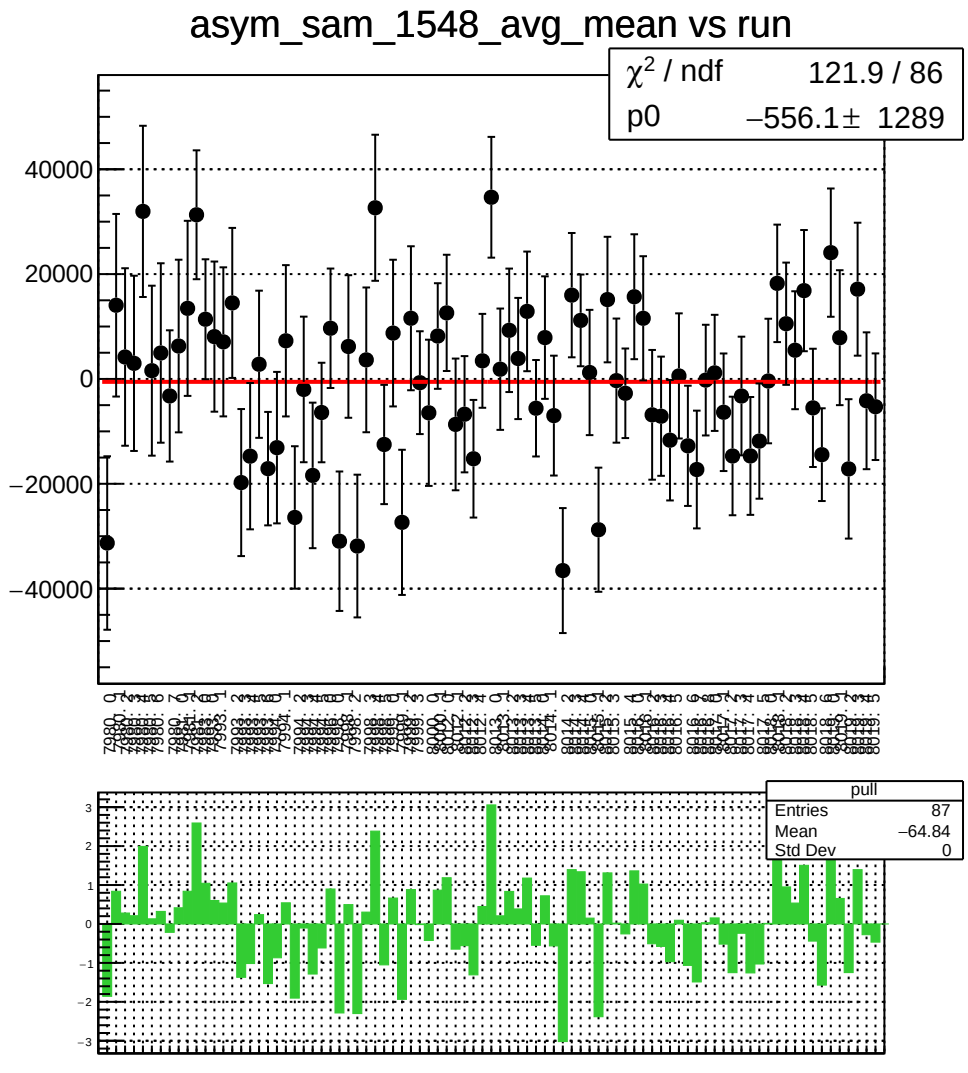

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 86.62 / 86
p0 16.95 ± 145
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −372.4
Std Dev 0
2
1
0
−1
−2

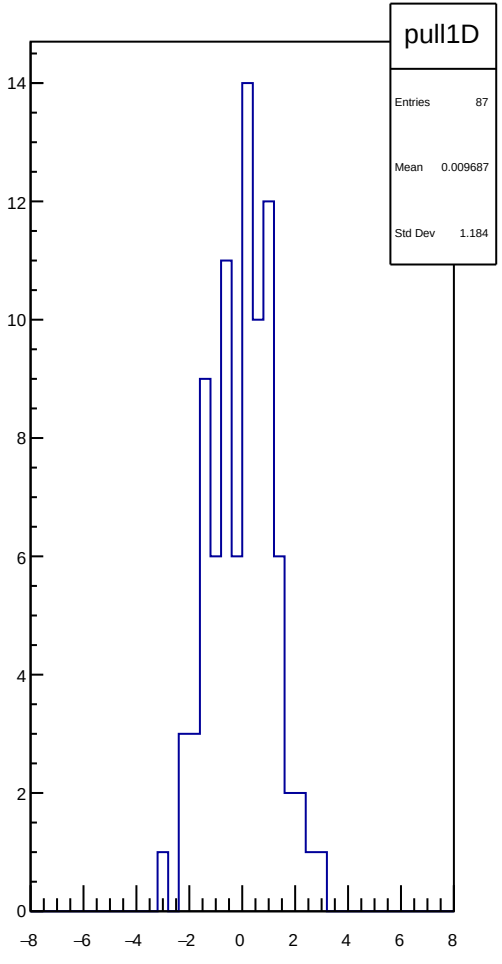

pull1D
Entries 87
Mean 0.001139
Std Dev 0.9978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

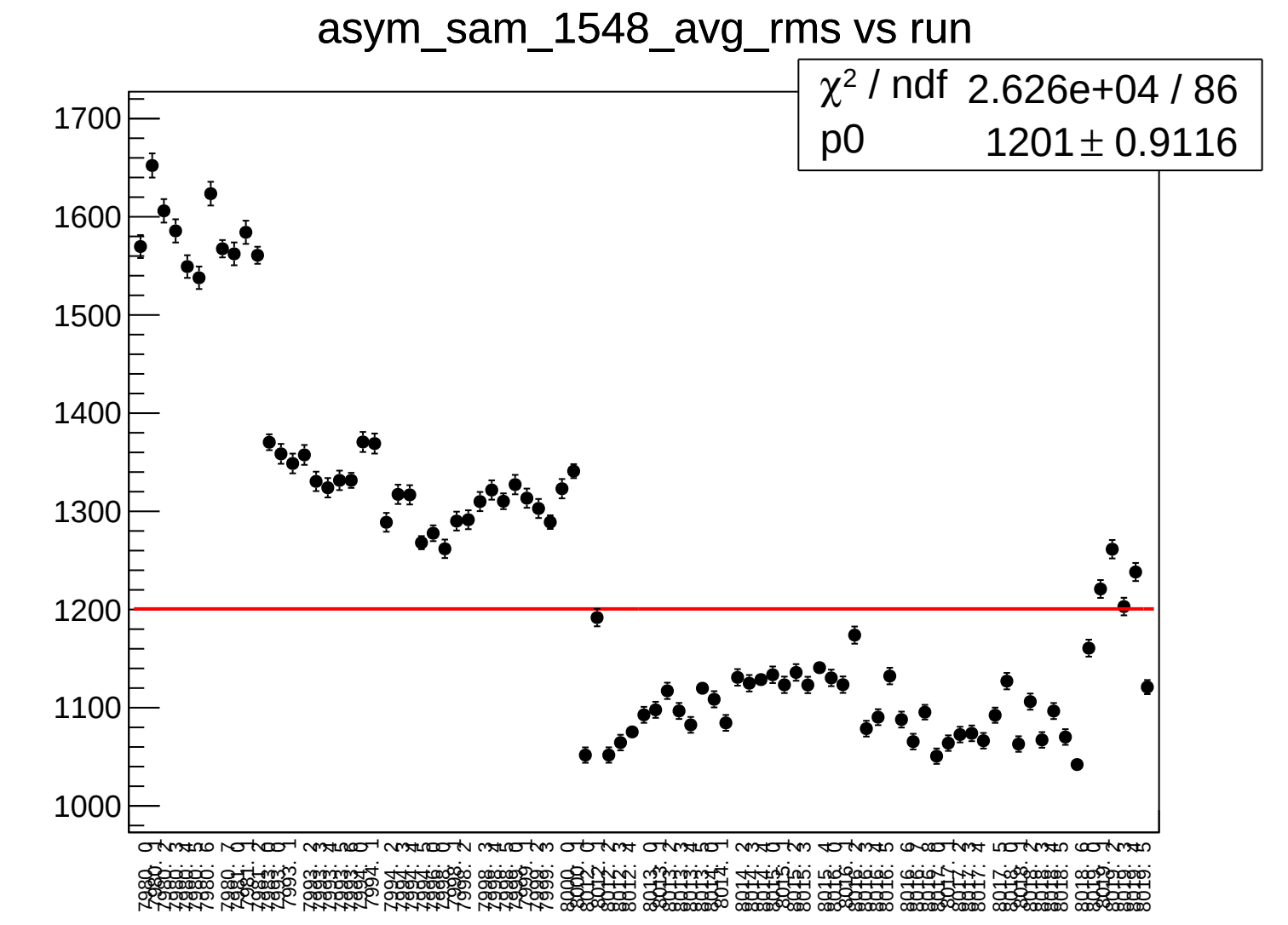

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 7.409e+04 / 86
p0 133.1 ± 0.1025
200
180
160
140
120
100

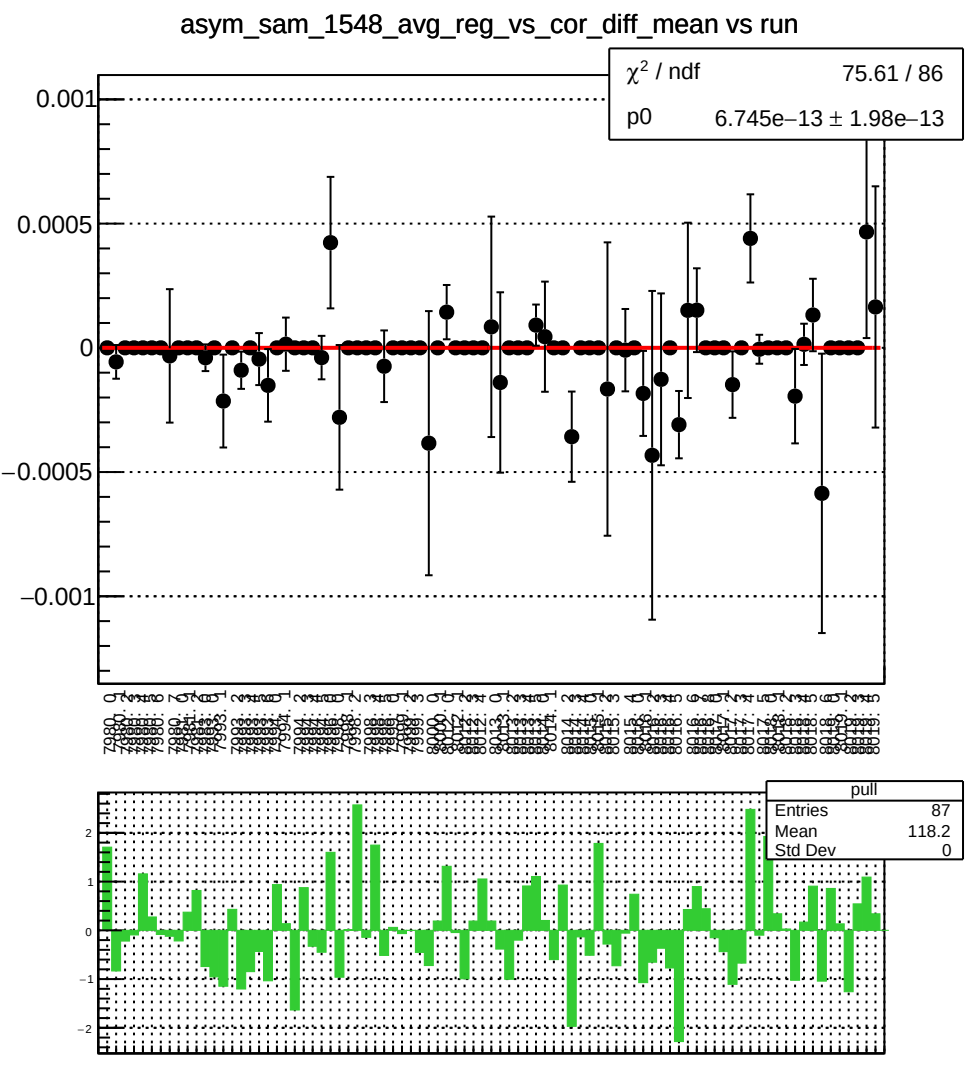

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 121.3 / 86
p0 323.6 ± 1330
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −2619
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.0004782
Std Dev 1.181
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

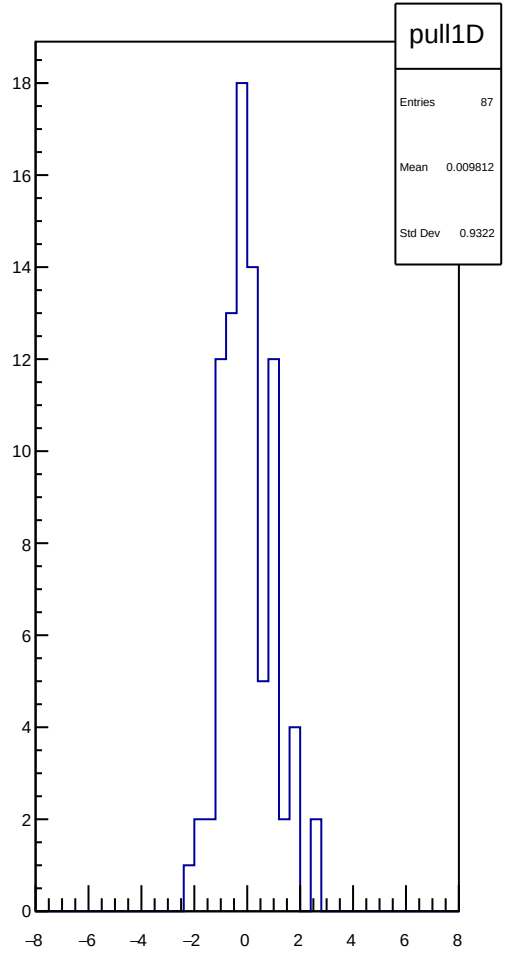

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.567e+04 / 86
p0 1239 ± 0.9406
1500
1400
1300
1200
1100

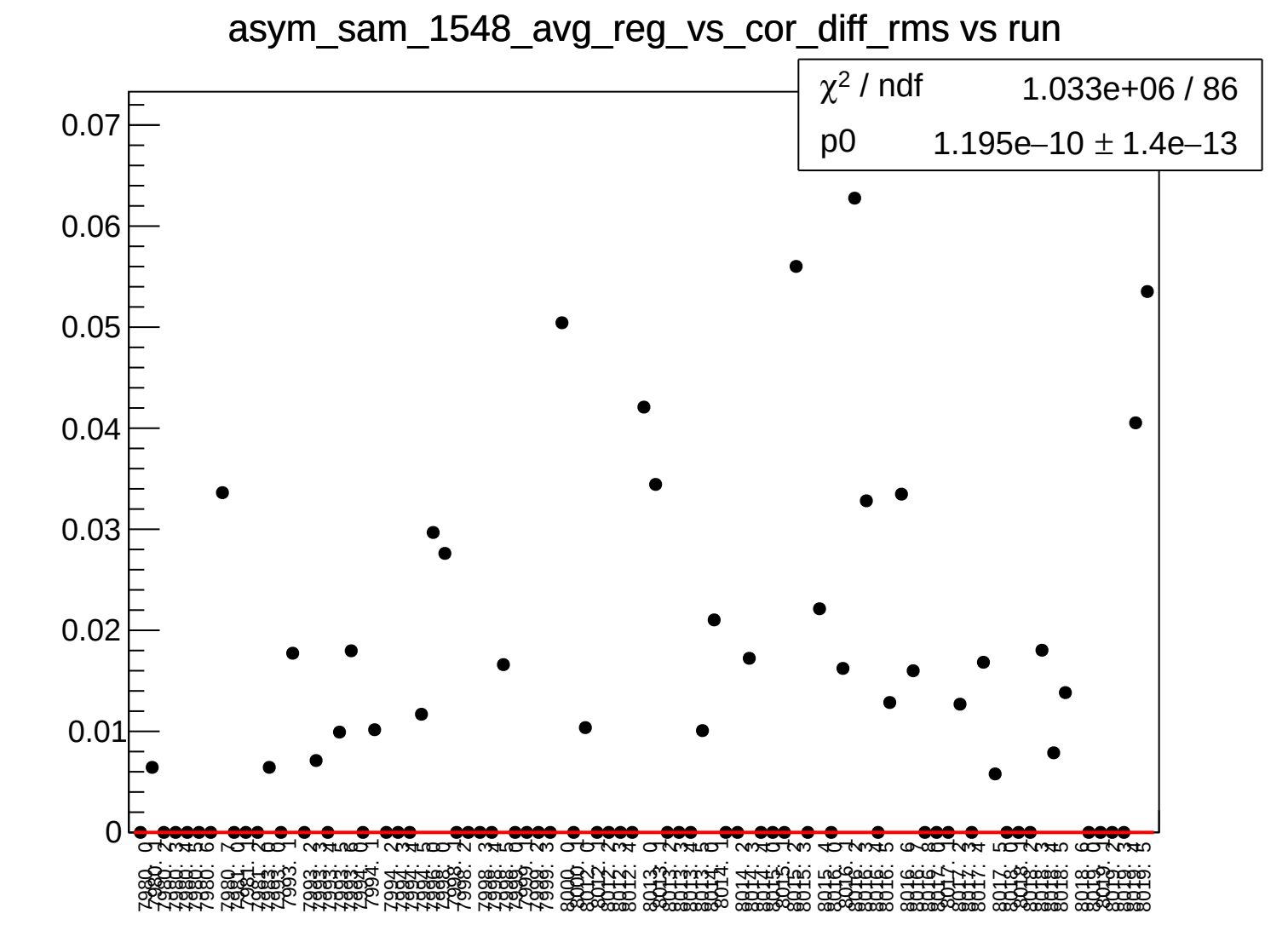

asym_sam_1548_avg_mean vs run
χ² / ndf 121.9 / 86
p0 −556.1± 1289
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −64.84
Std Dev 0
3
2
1
0
−1
−2
−3

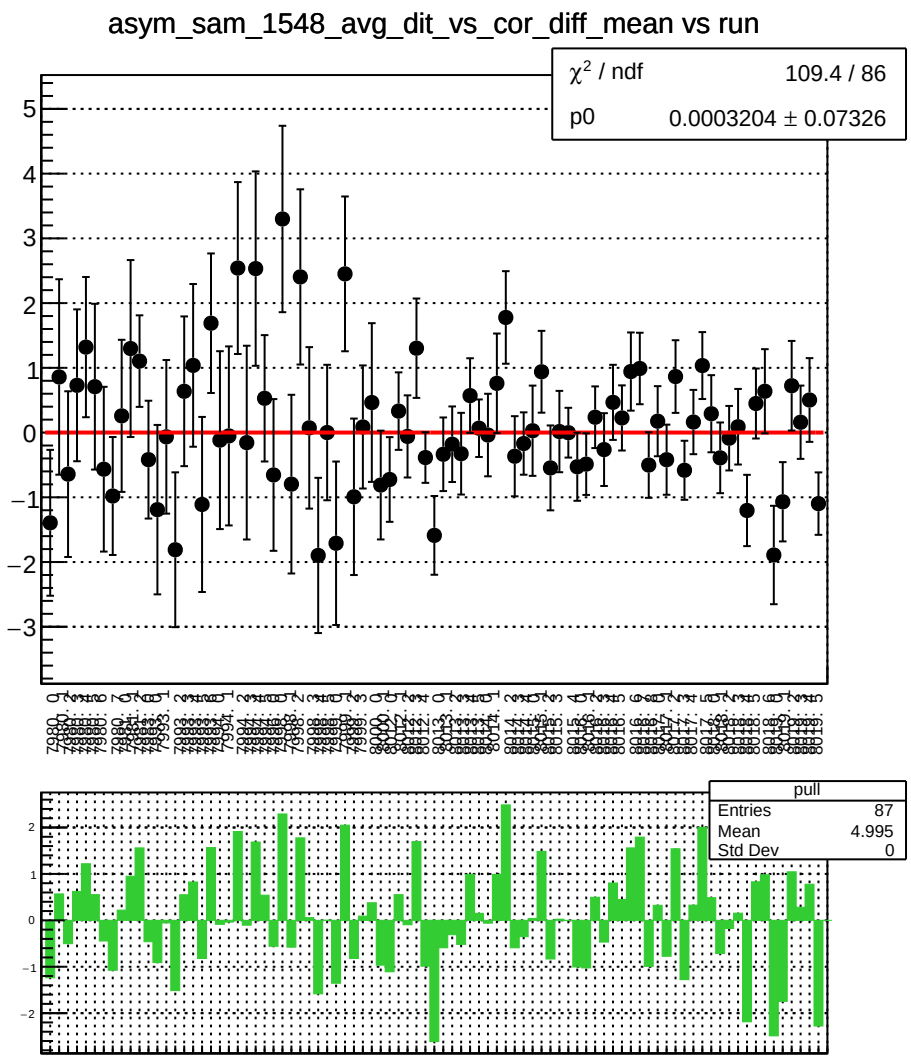

pull1D
Entries 87
Mean 0.009687
Std Dev 1.184
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

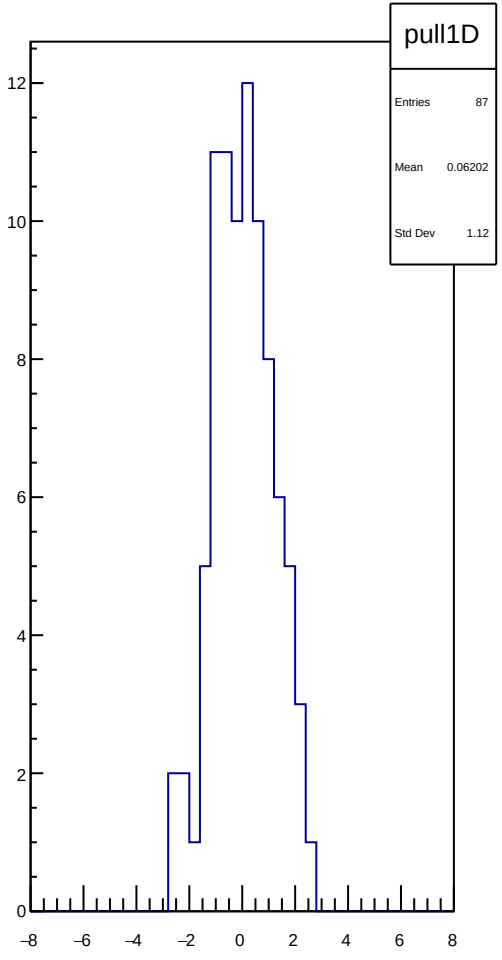

asym_sam_1548_avg_rms vs run
χ² / ndf 2.626e+04 / 86
p0 1201 ± 0.9116
1700
1600
1500
1400
1300
1200
1100
1000

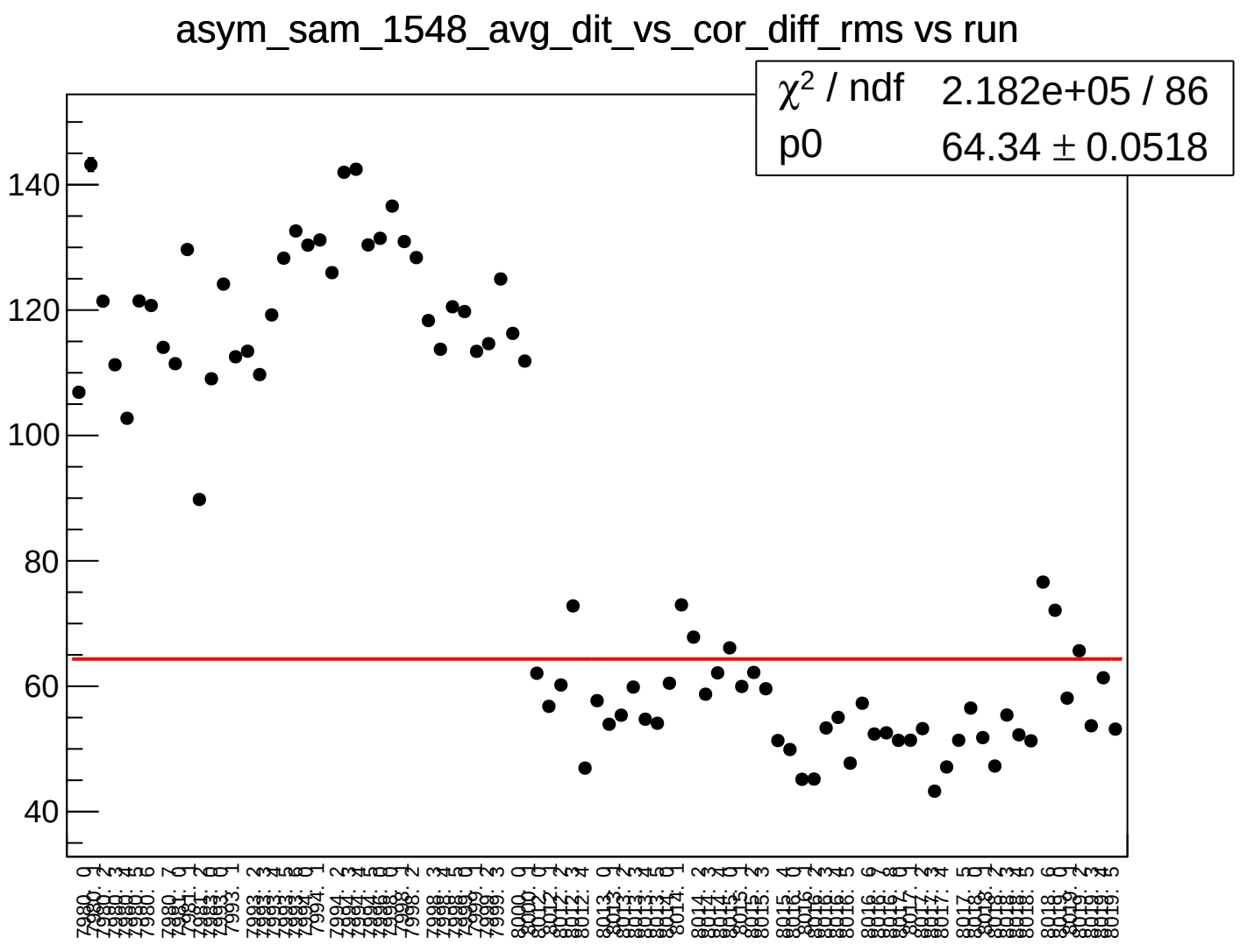

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.61 / 86
p0 6.745e−13 ± 1.98e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean 118.2
Std Dev 0
2
1
0
−1
−2

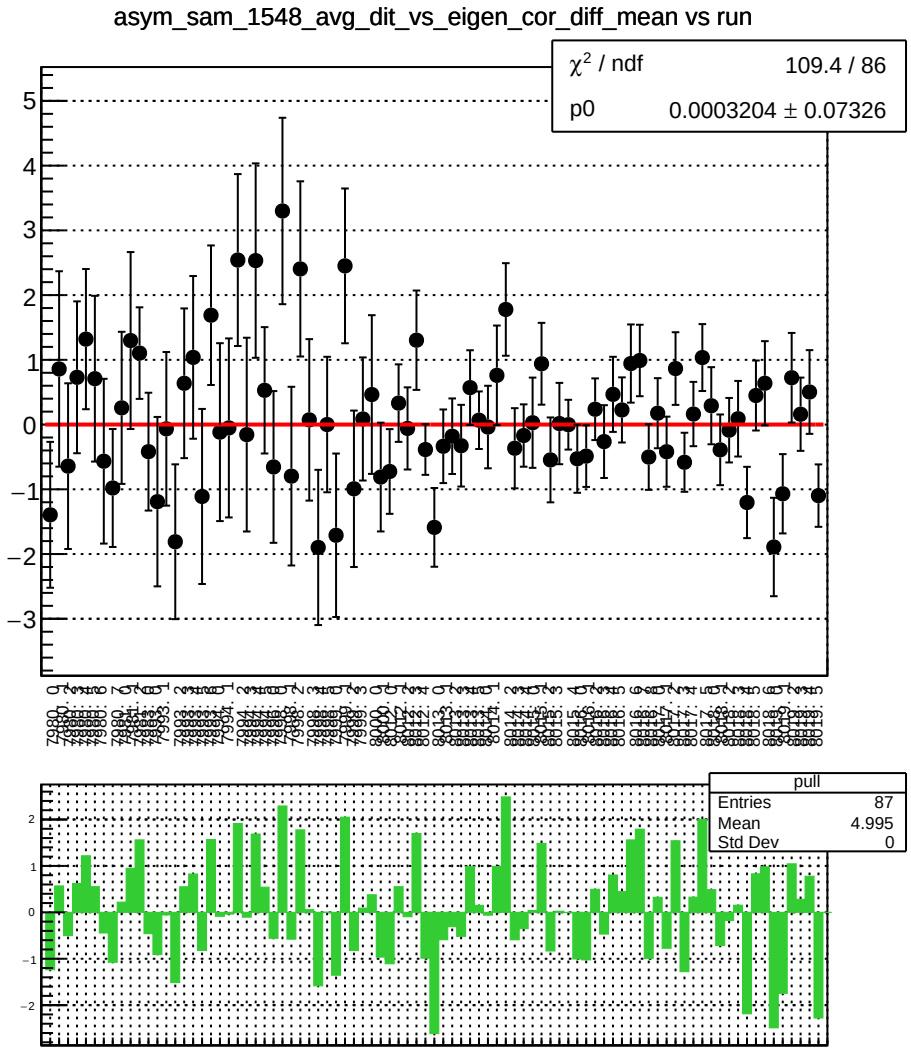

pull1D
Entries 87
Mean 0.009812
Std Dev 0.9322
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

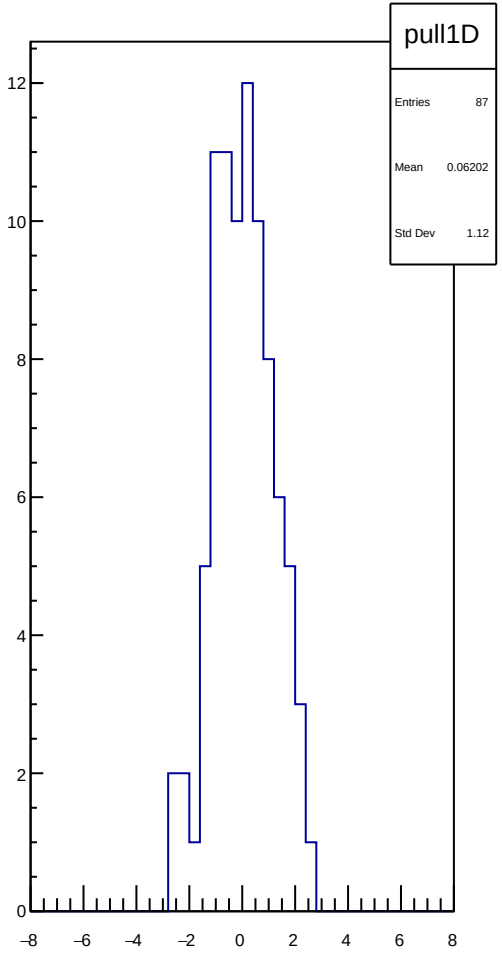

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.033e+06 / 86
p0 1.195e−10 ± 1.4e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

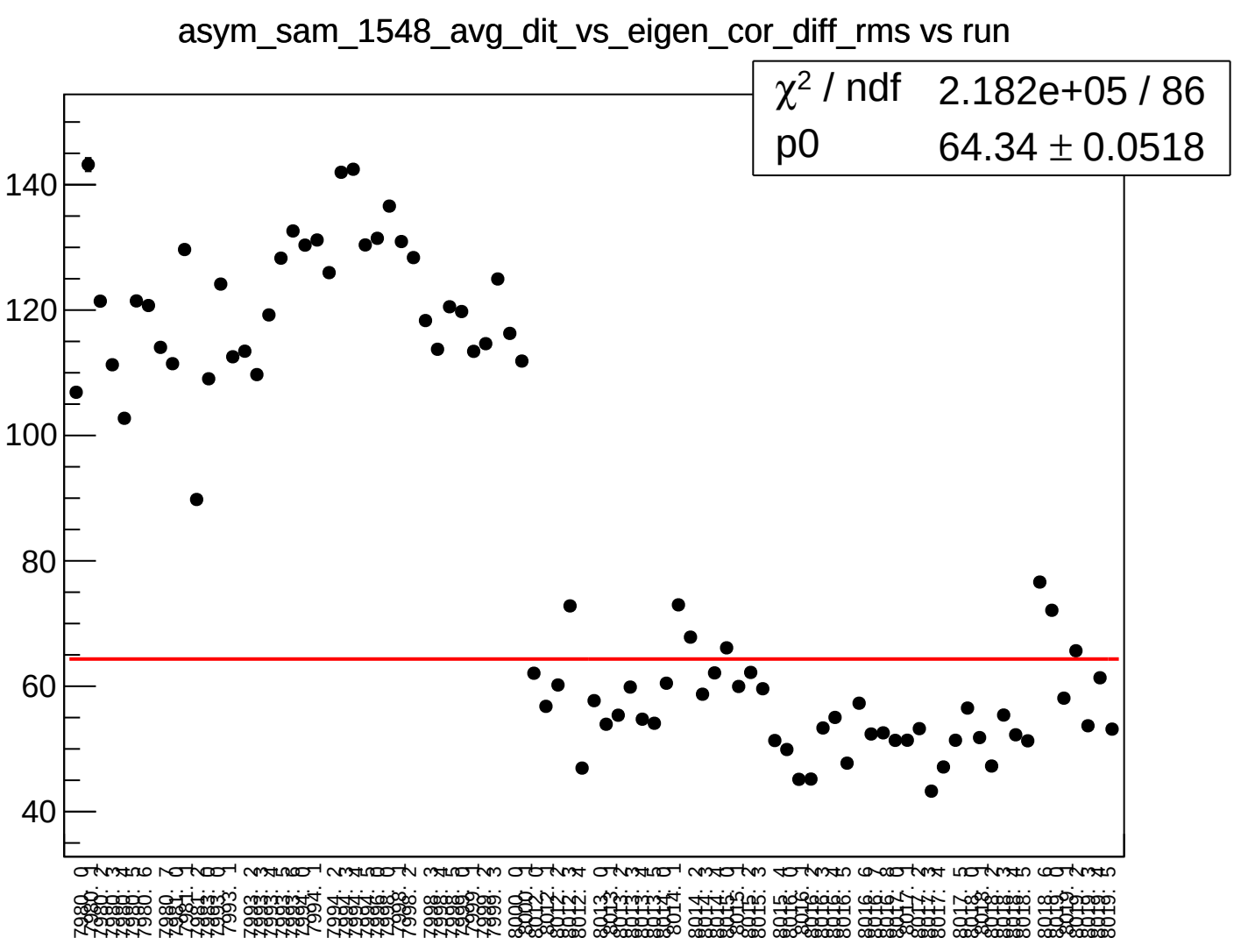

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 86
p0 0.0003204 ± 0.07326
pull
Entries 87
Mean 4.995
Std Dev 0

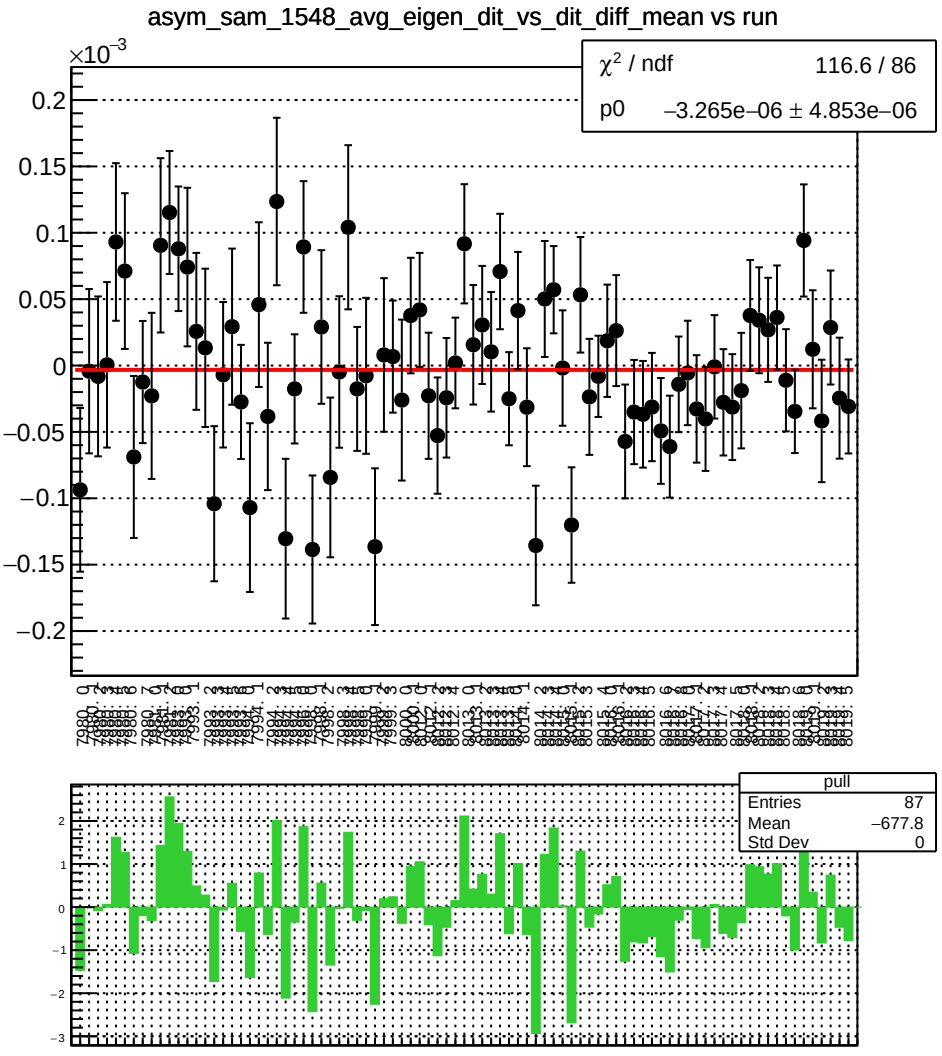

pull1D
Entries 87
Mean 0.06202
Std Dev 1.12

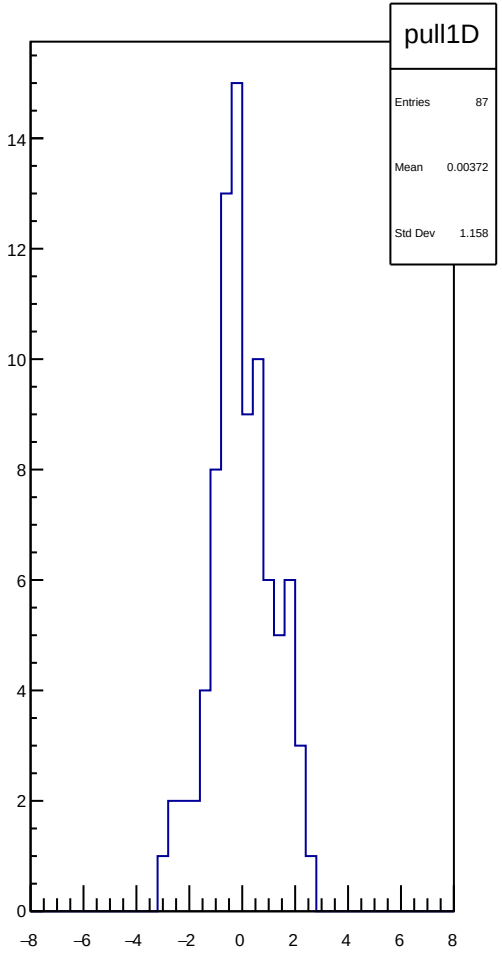

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.182e+05 / 86
p0 64.34 ± 0.0518
140
120
100
80
60
40

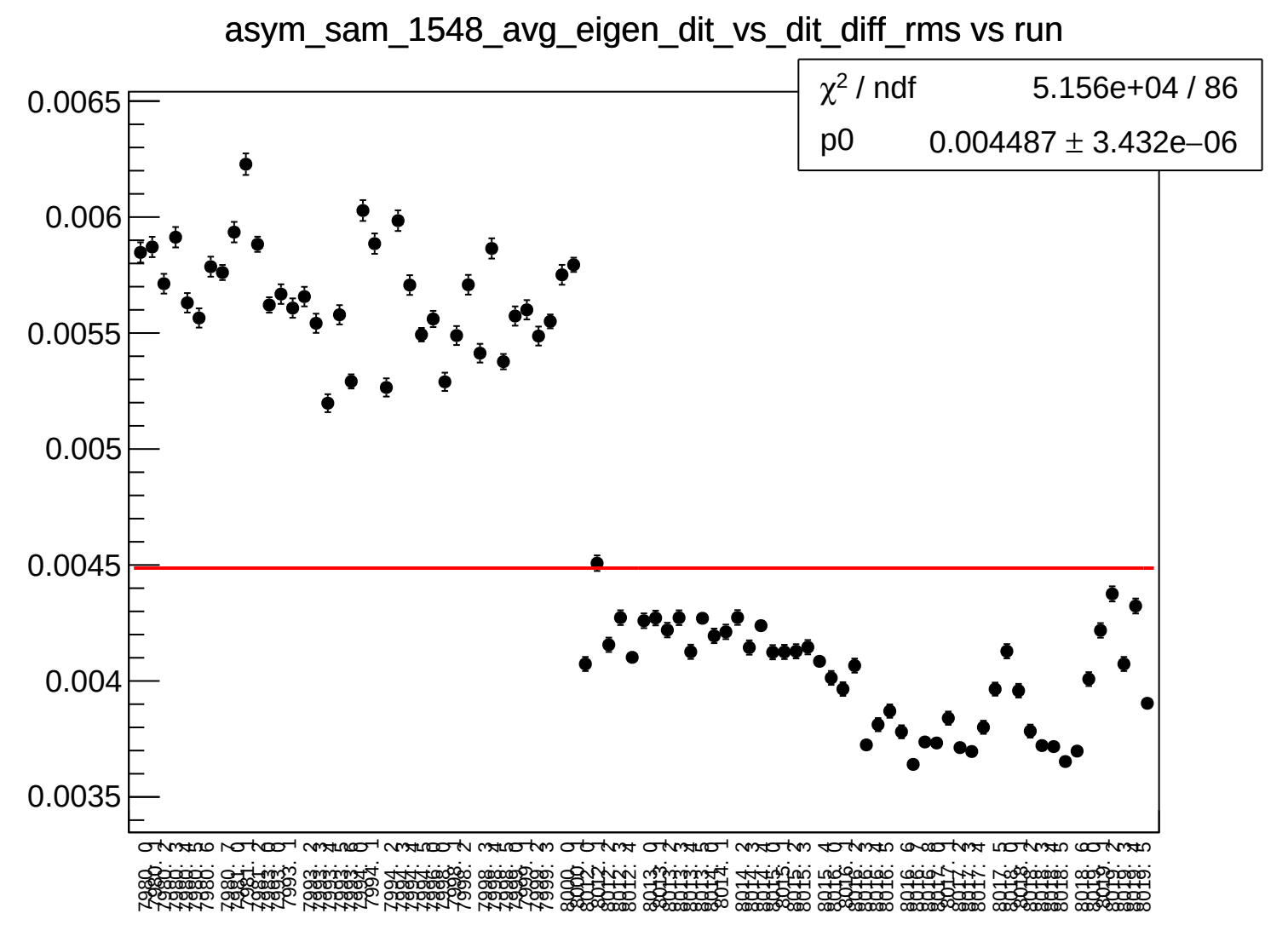

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.4 / 86
p0 0.0003204 ± 0.07326
pull
Entries 87
Mean 4.995
Std Dev 0

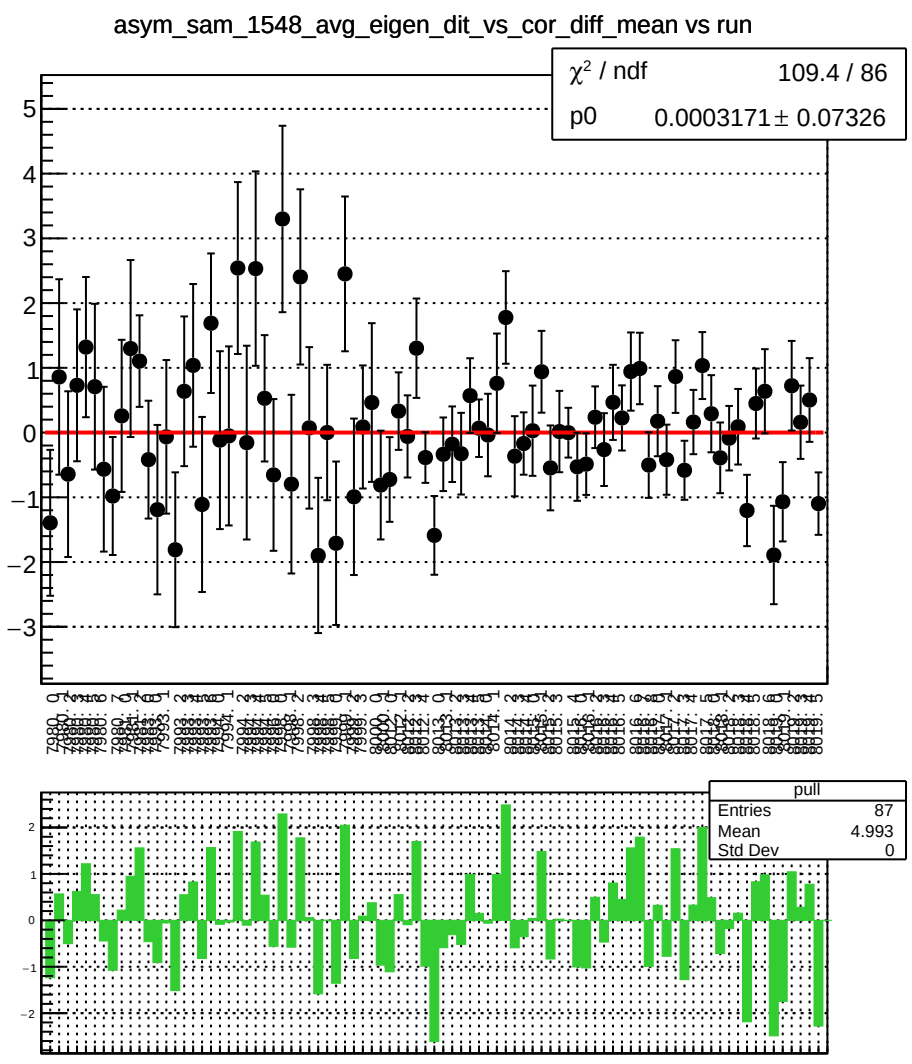

pull1D
Entries 87
Mean 0.06202
Std Dev 1.12

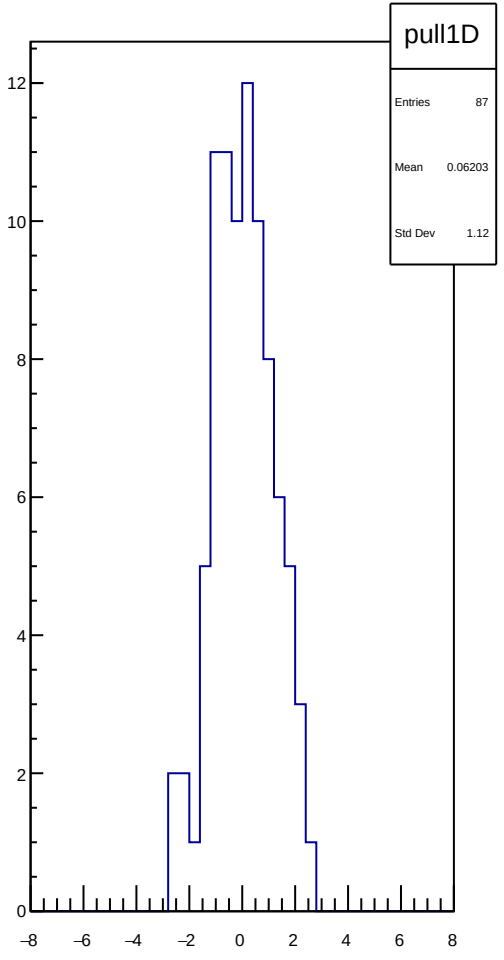

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.182e+05 / 86
p0 64.34 ± 0.0518
140
120
100
80
60
40

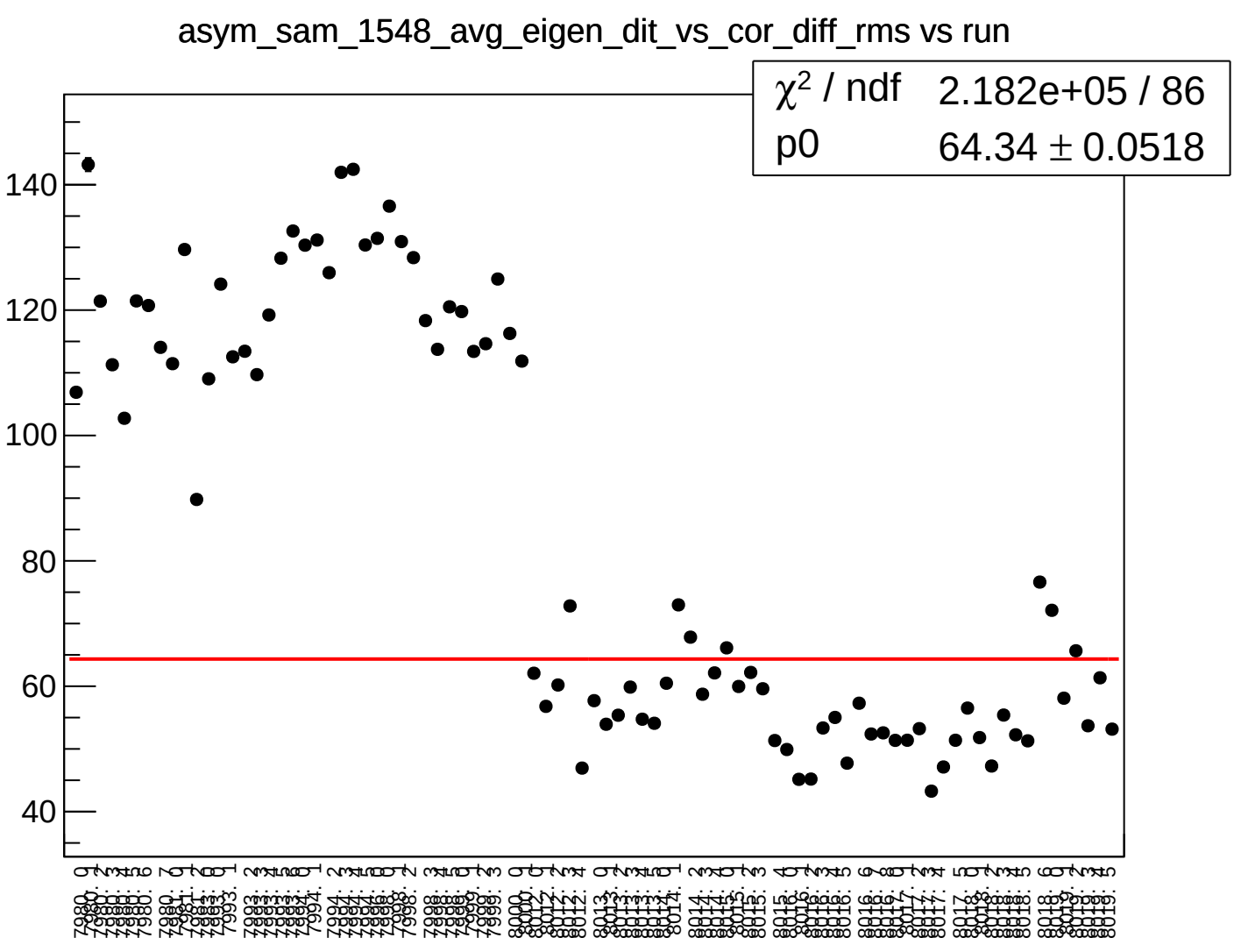

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 116.6 / 86
p0 −3.265e−06 ± 4.853e−06
pull
Entries 87
Mean −677.8
Std Dev 0


pull1D
Entries 87
Mean 0.00372
Std Dev 1.158

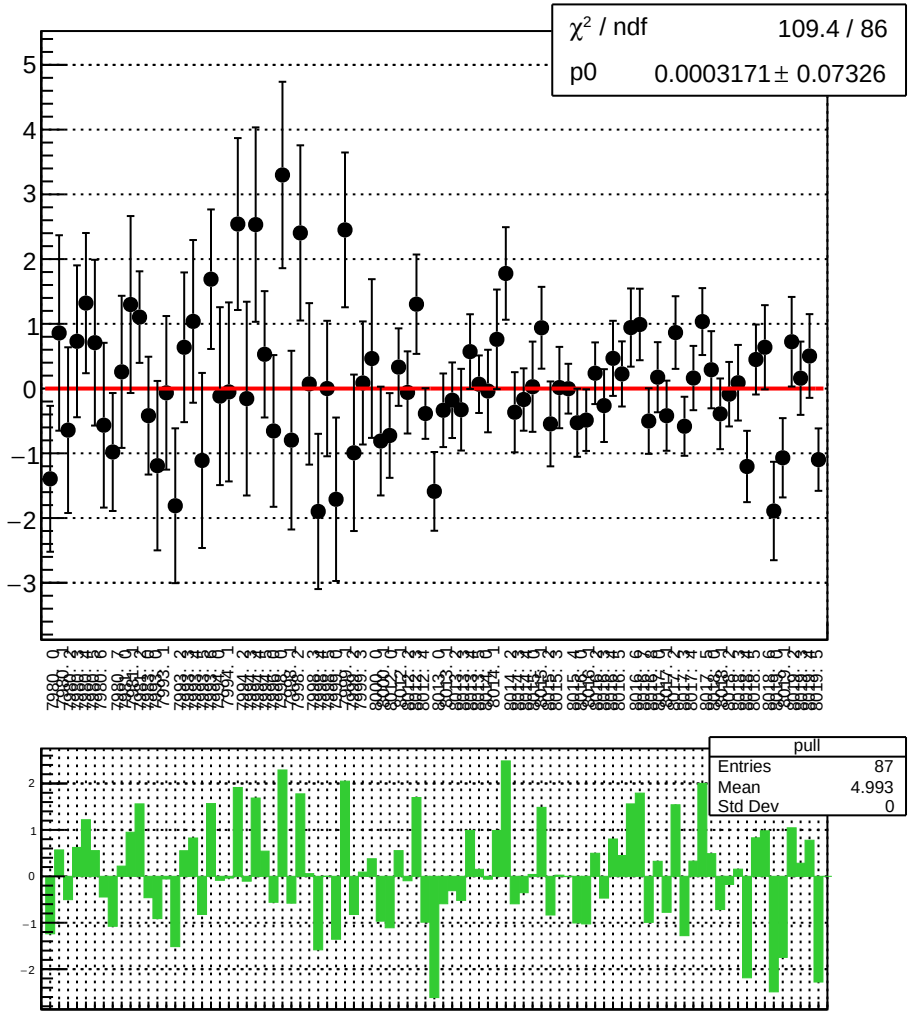

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.156e+04 / 86
p0 0.004487 ± 3.432e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

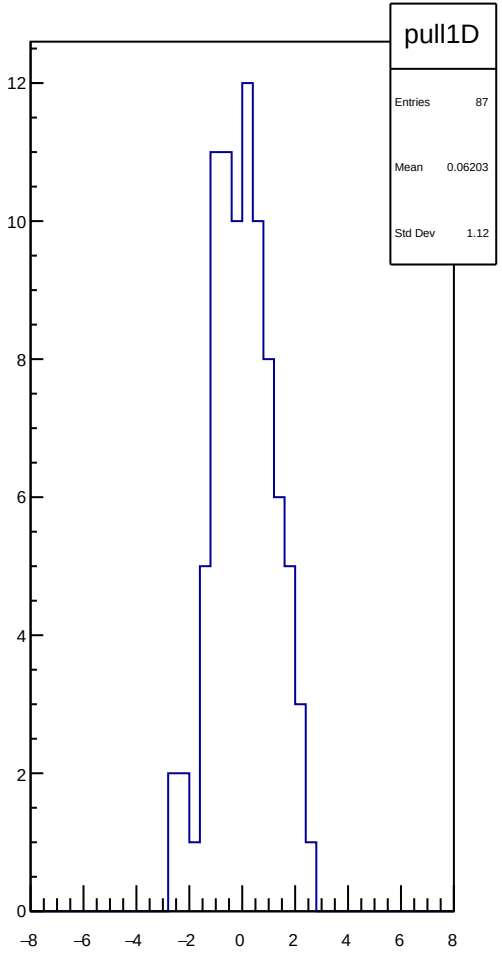

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 86
p0 0.0003171 ± 0.07326
pull
Entries 87
Mean 4.993
Std Dev 0

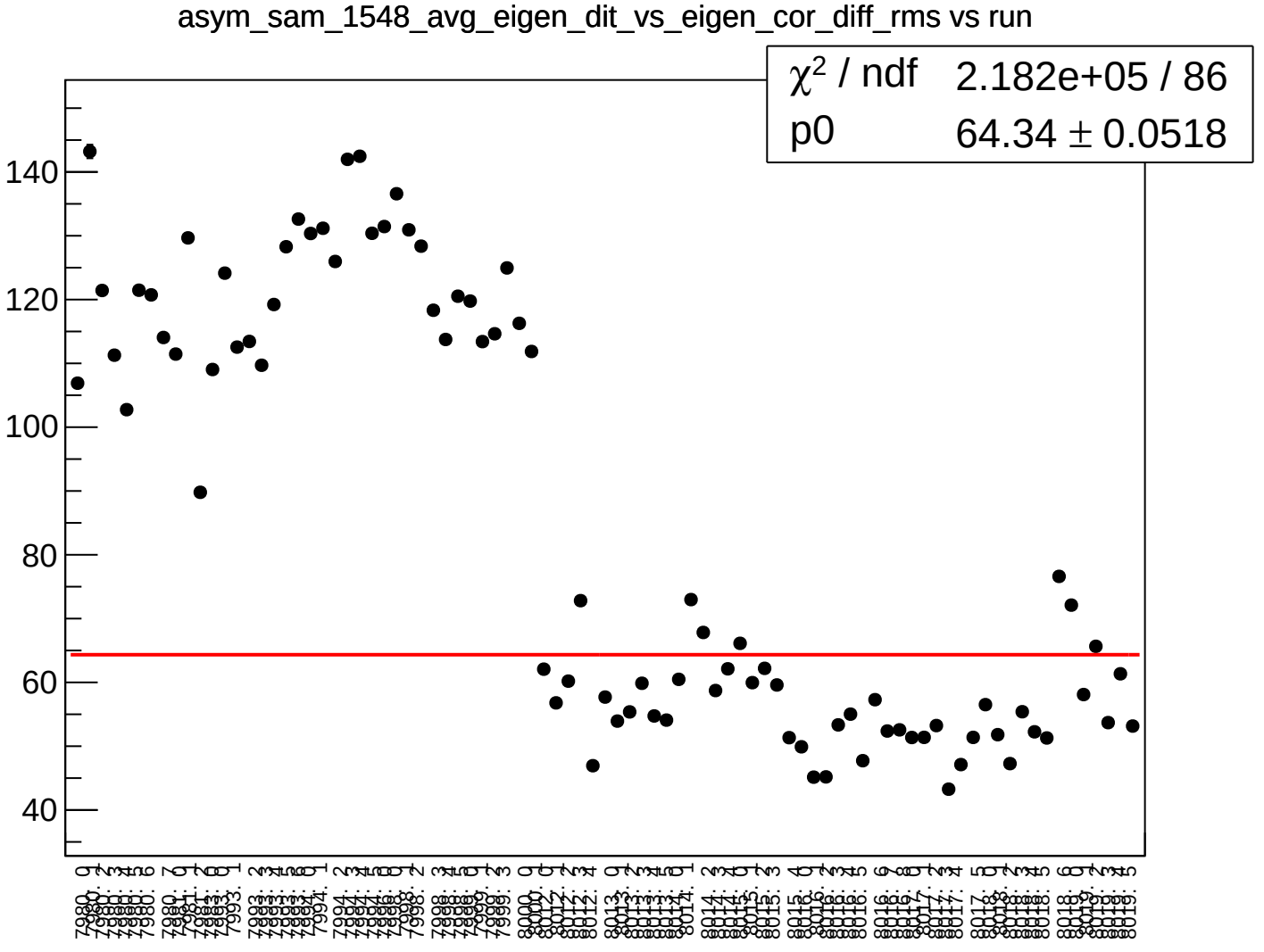

pull1D
Entries 87
Mean 0.06203
Std Dev 1.12

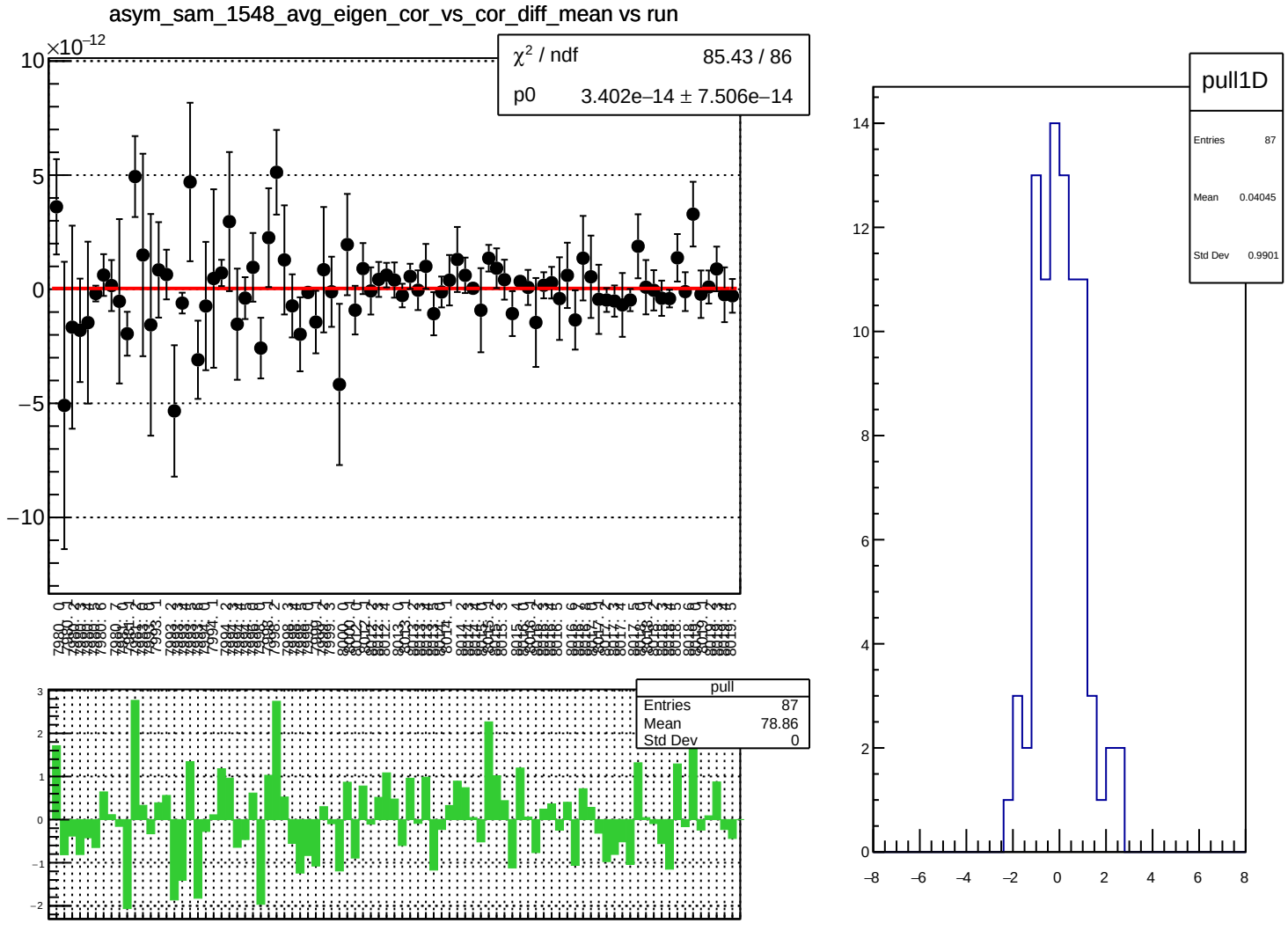

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.182e+05 / 86
p0 64.34 ± 0.0518
140
120
100
80
60
40

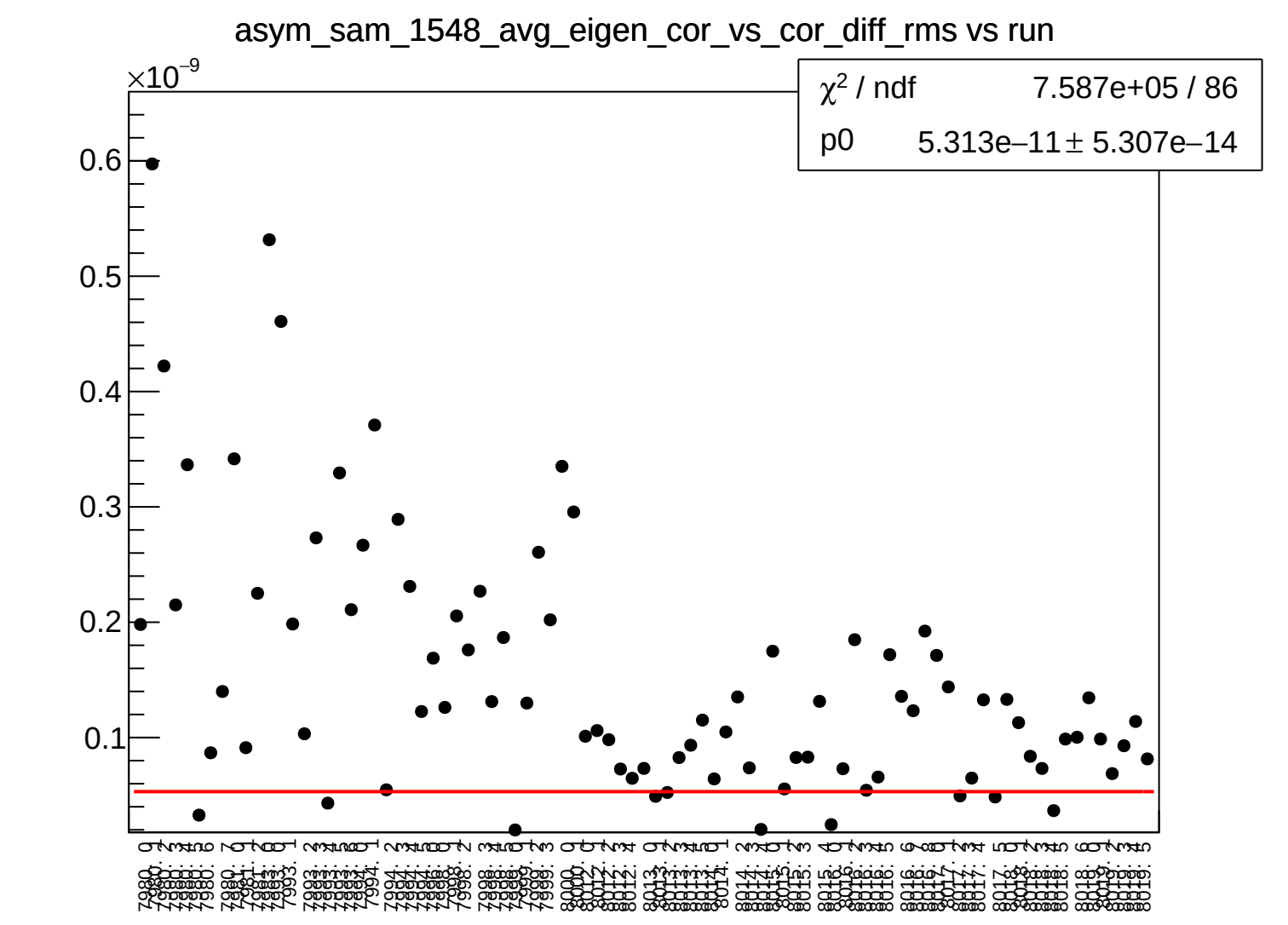
asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

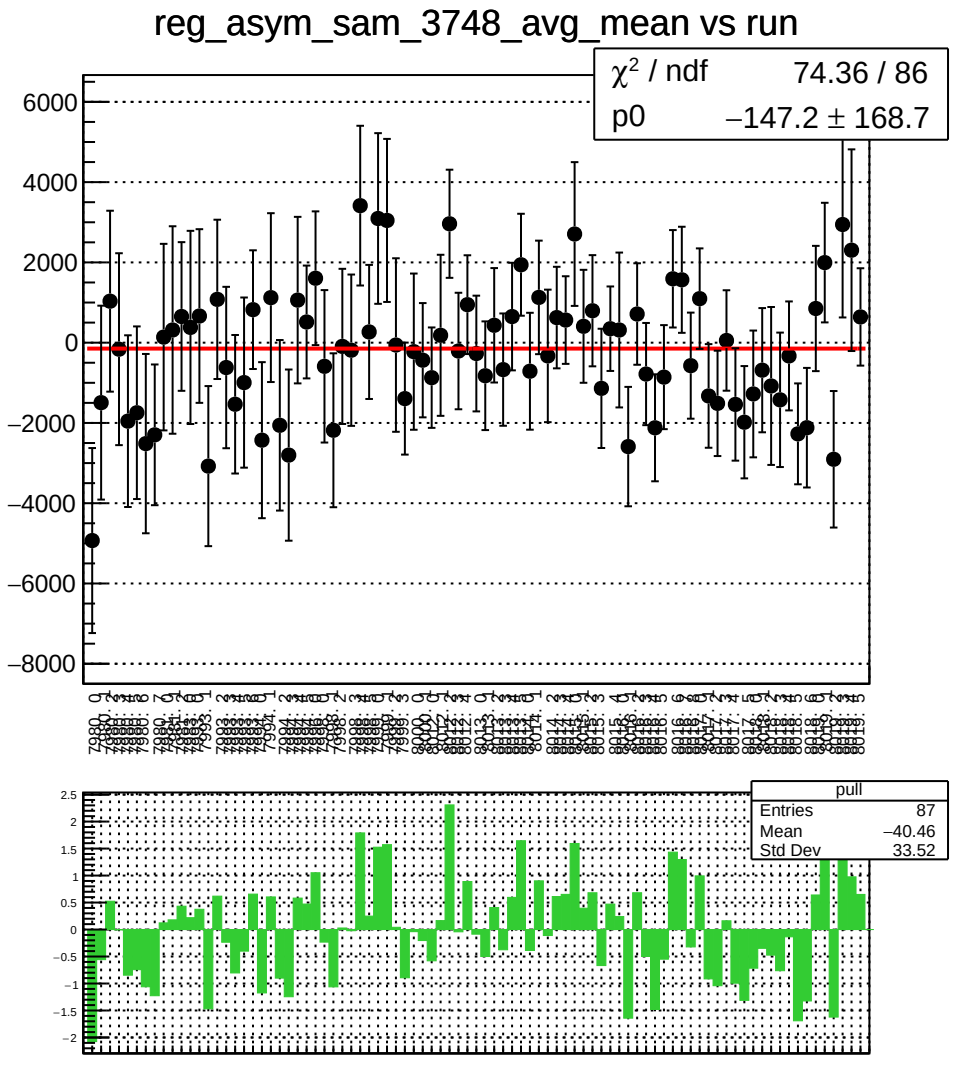


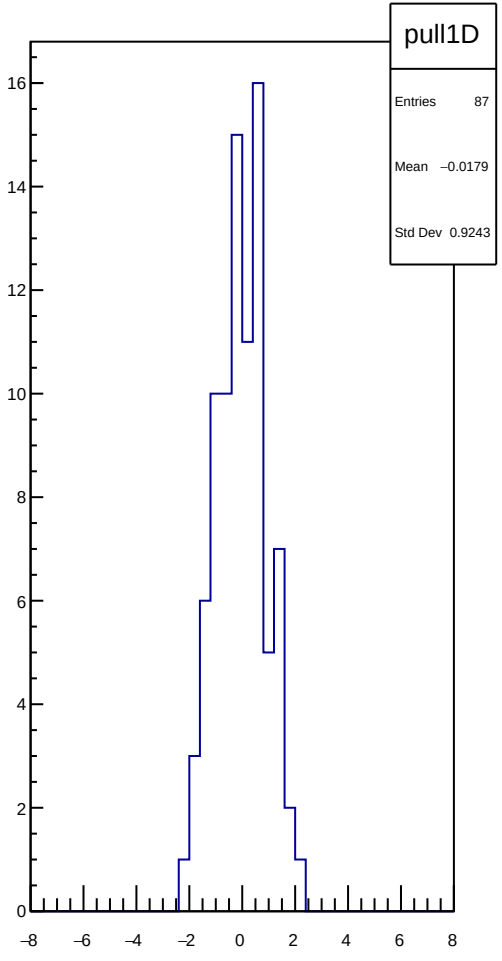


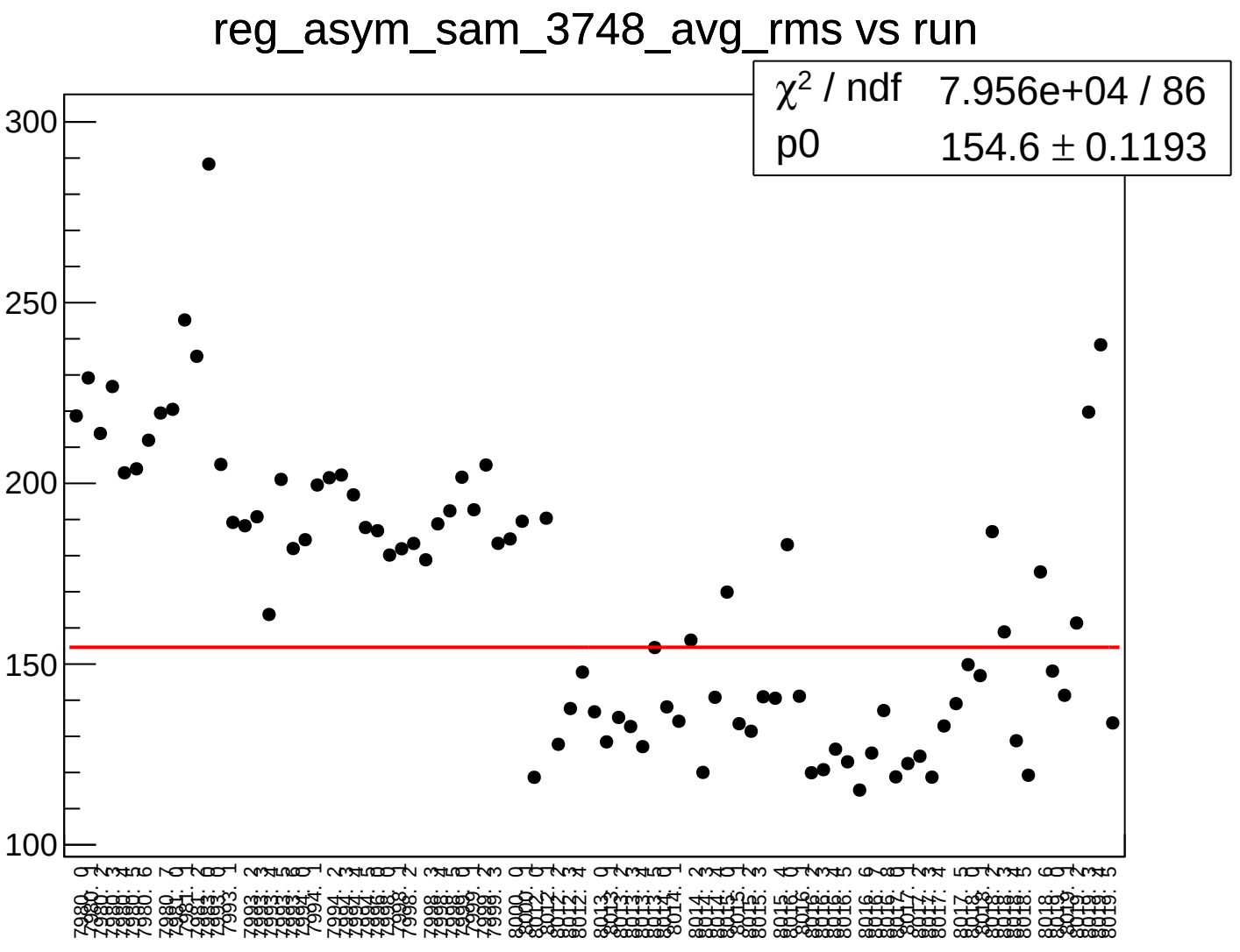

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.182e+05 / 86
p0 64.34 ± 0.0518
140
120
100
80
60
40

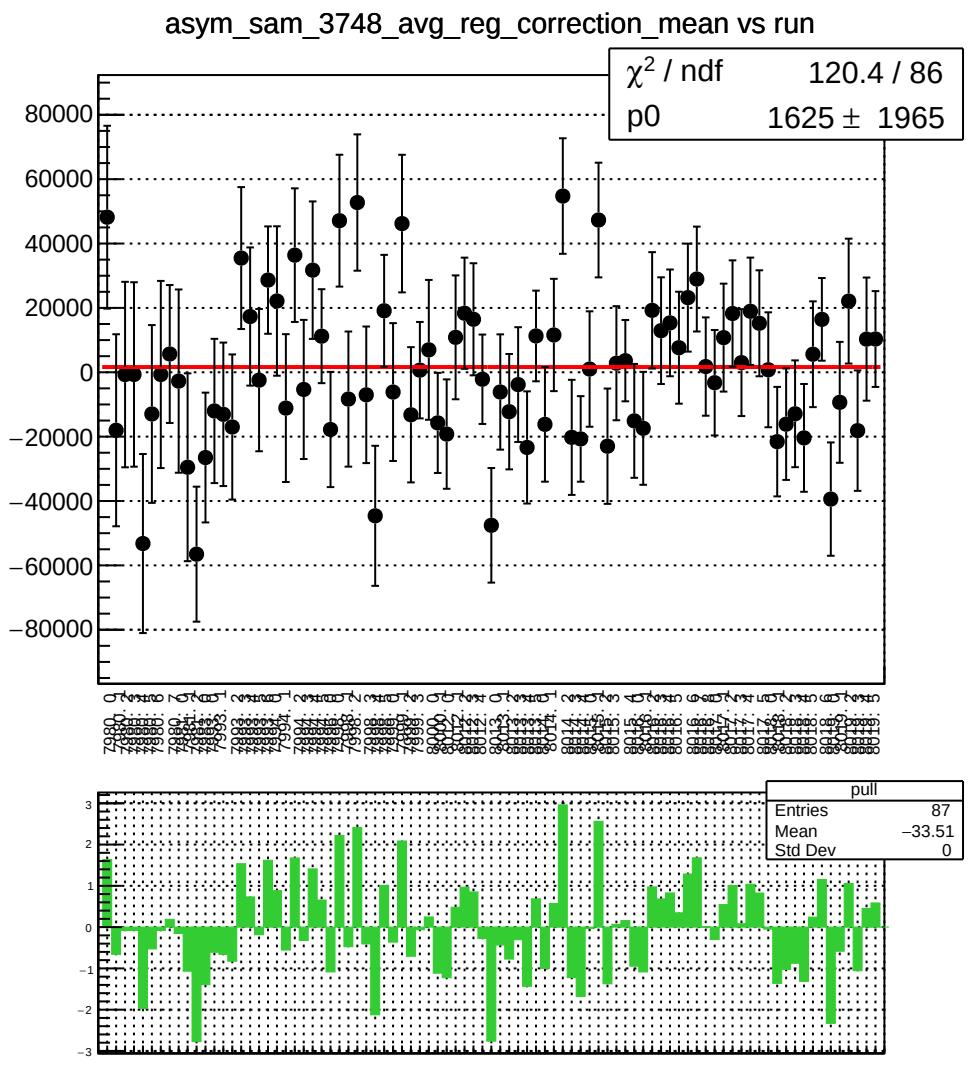

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.43 / 86
p0 3.402e−14 ± 7.506e−14
pull
Entries 87
Mean 78.86
Std Dev 0
pull1D
Entries 87
Mean 0.04045
Std Dev 0.9901

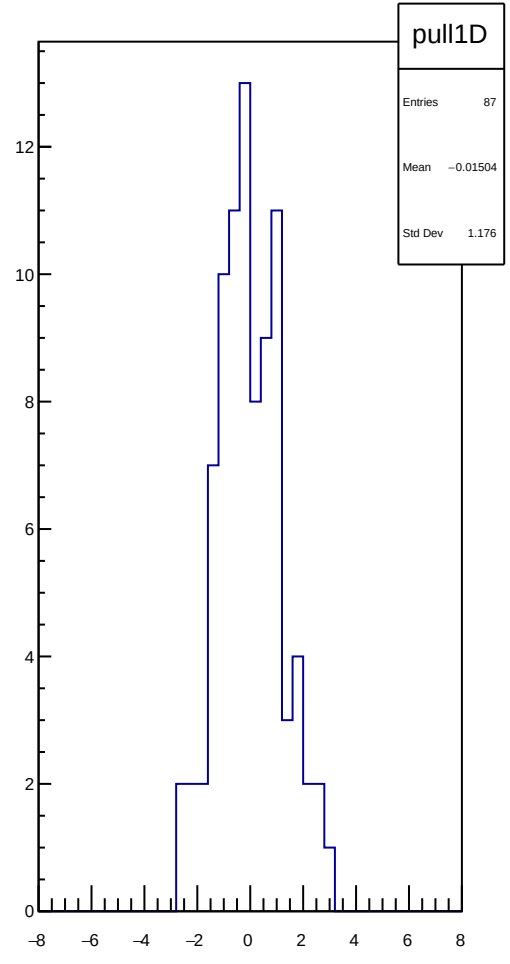

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.587e+05 / 86
p0 5.313e−11 ± 5.307e−14
0.6
0.5
0.4
0.3
0.2
0.1

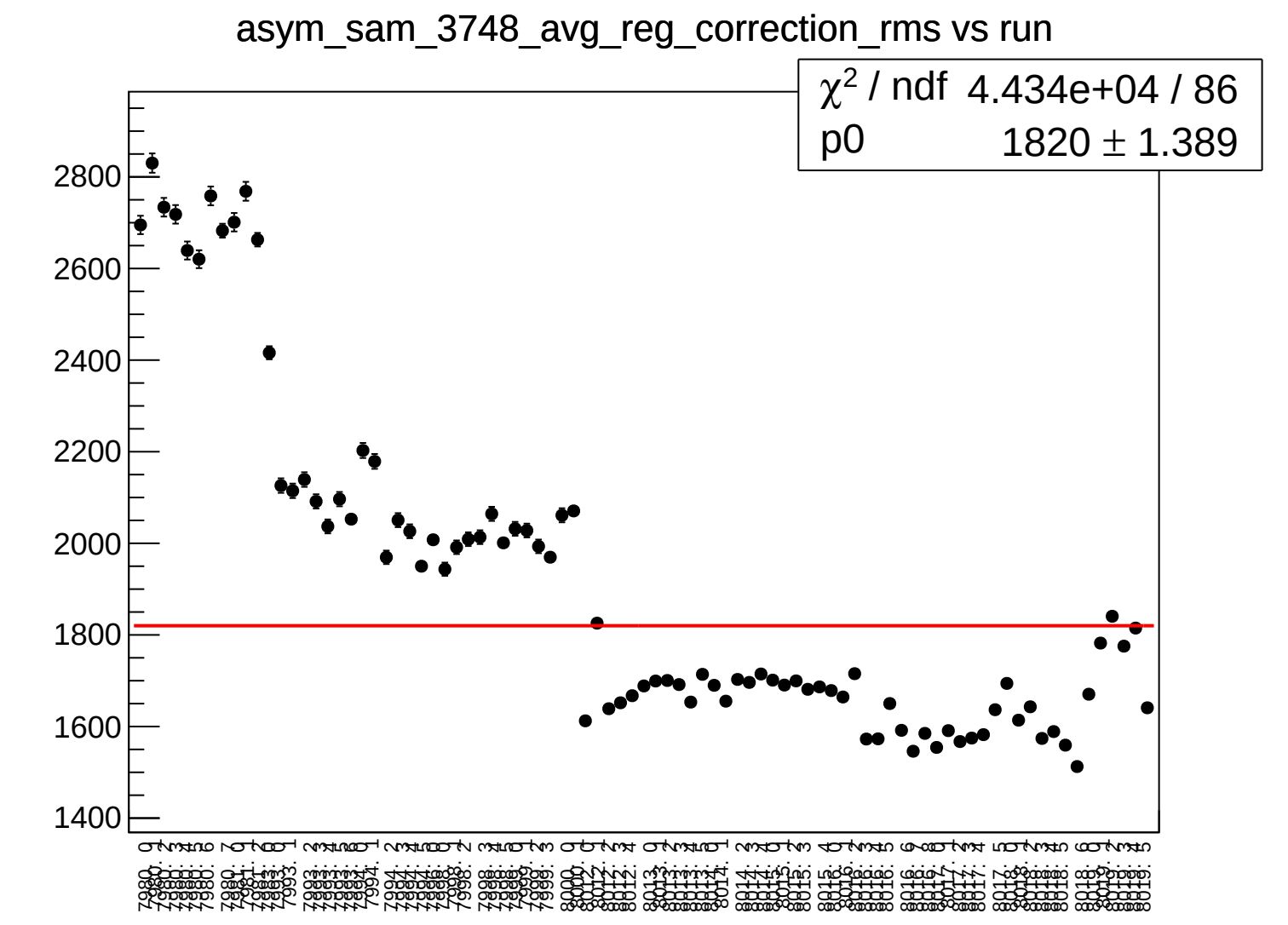

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 74.36 / 86
p0 −147.2 ± 168.7
pull
Entries 87
Mean −40.46
Std Dev 33.52

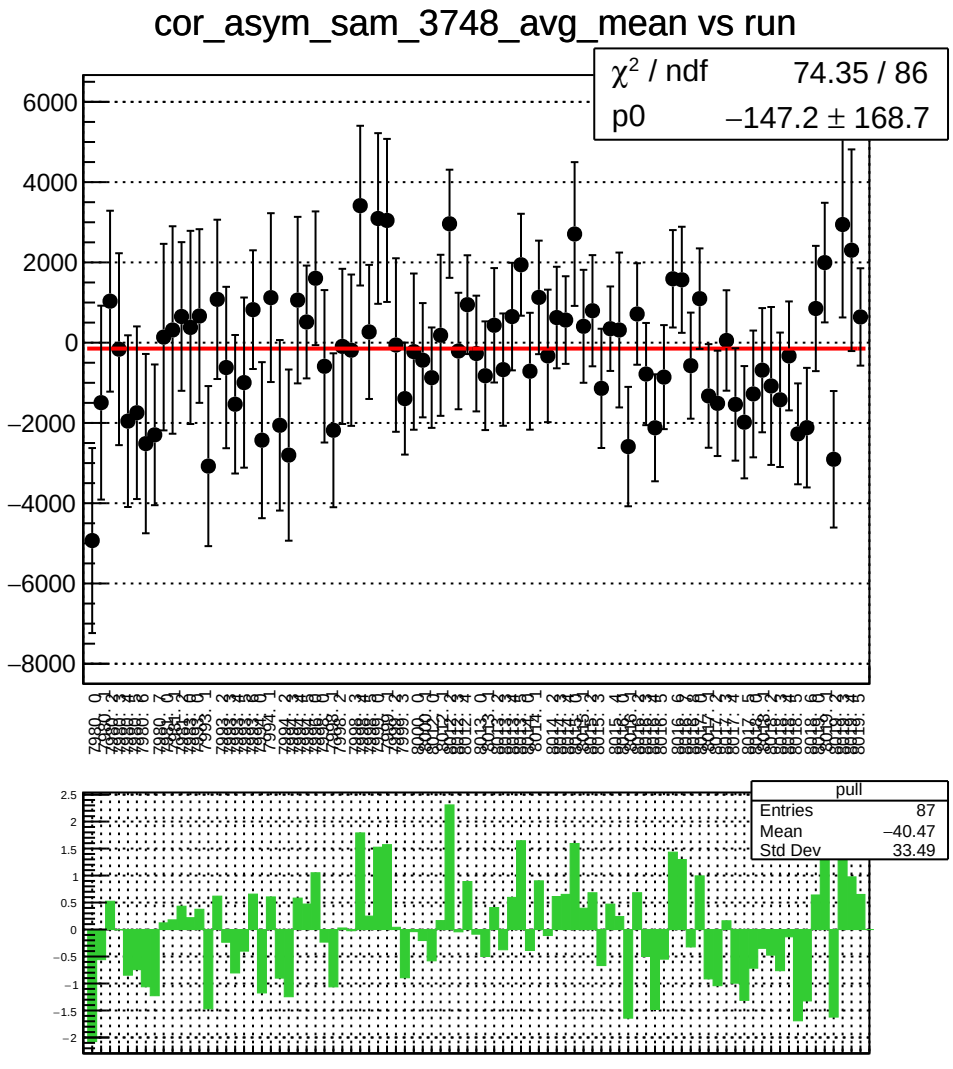

pull1D
Entries 87
Mean −0.0179
Std Dev 0.9243

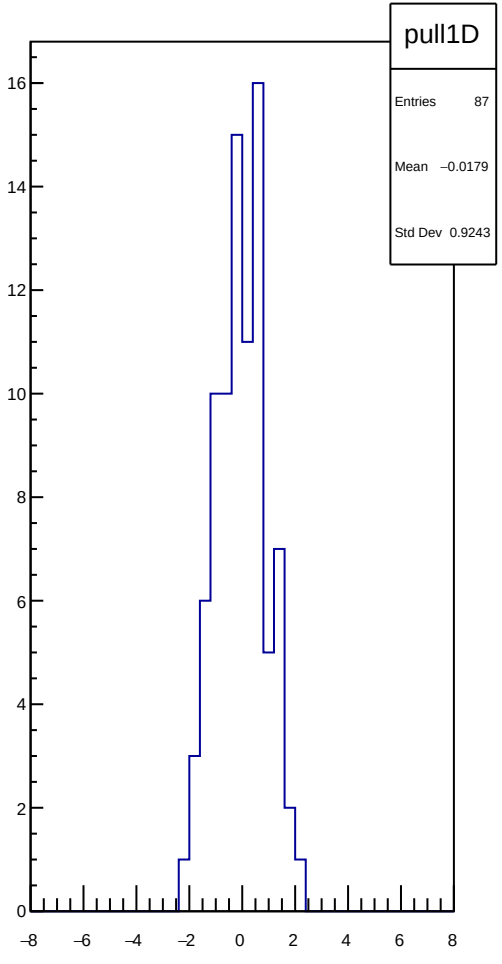

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 7.956e+04 / 86
p0 154.6 ± 0.1193
300
250
200
150
100

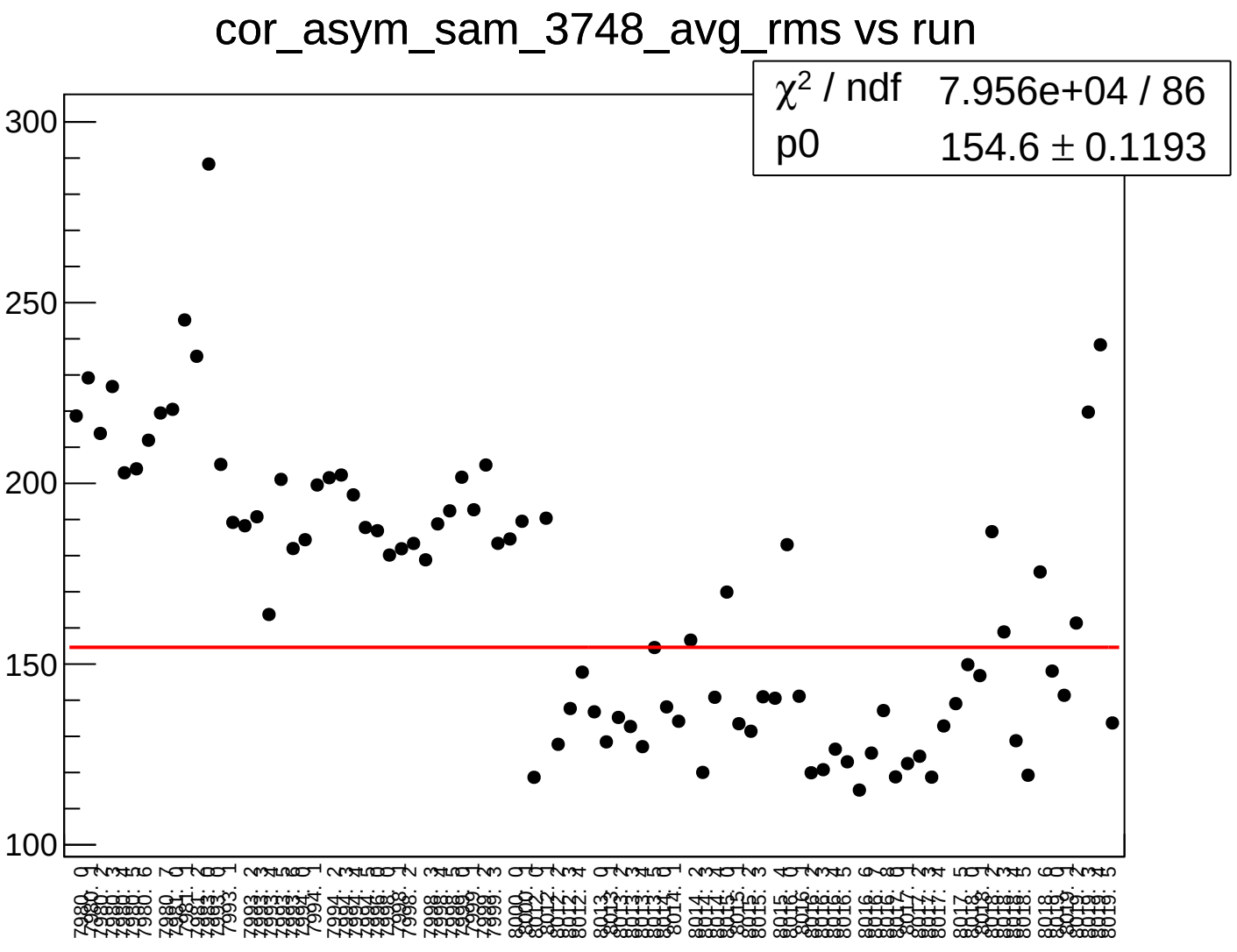

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 120.4 / 86
p0 1625 ± 1965
pull
Entries 87
Mean −33.51
Std Dev 0

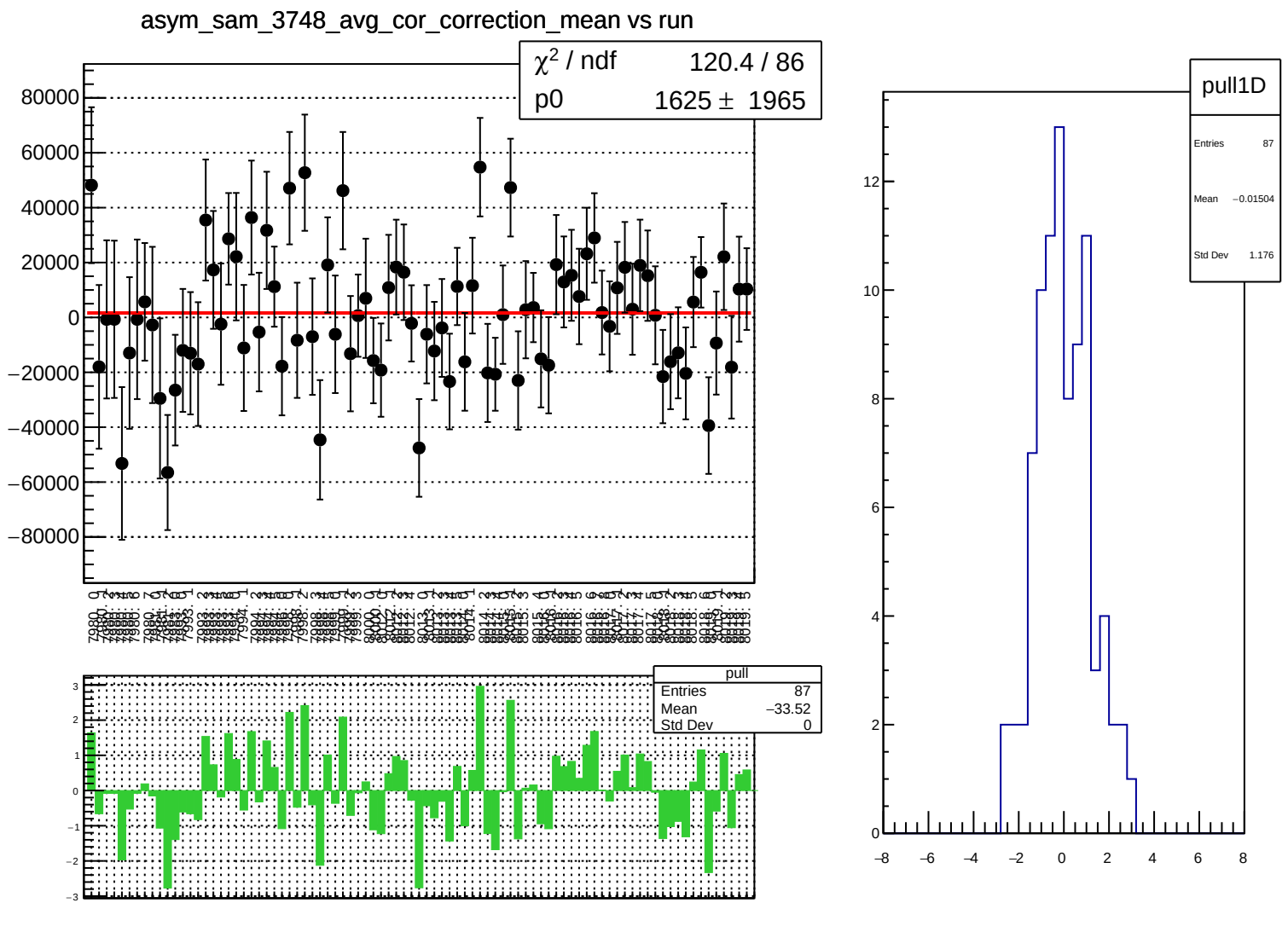

pull1D
Entries 87
Mean −0.01504
Std Dev 1.176

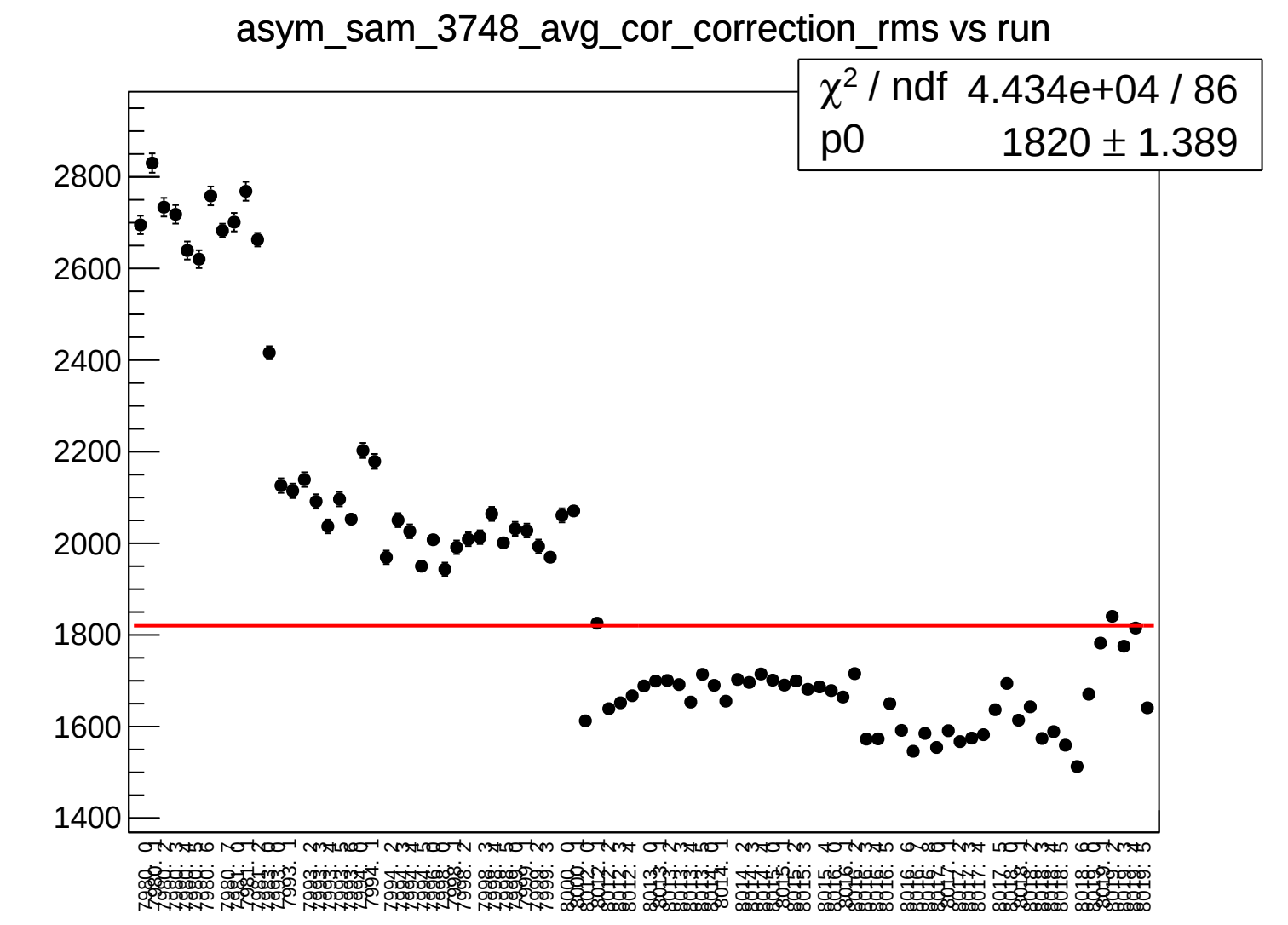

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 4.434e+04 / 86
p0 1820 ± 1.389
2800
2600
2400
2200
2000
1800
1600
1400

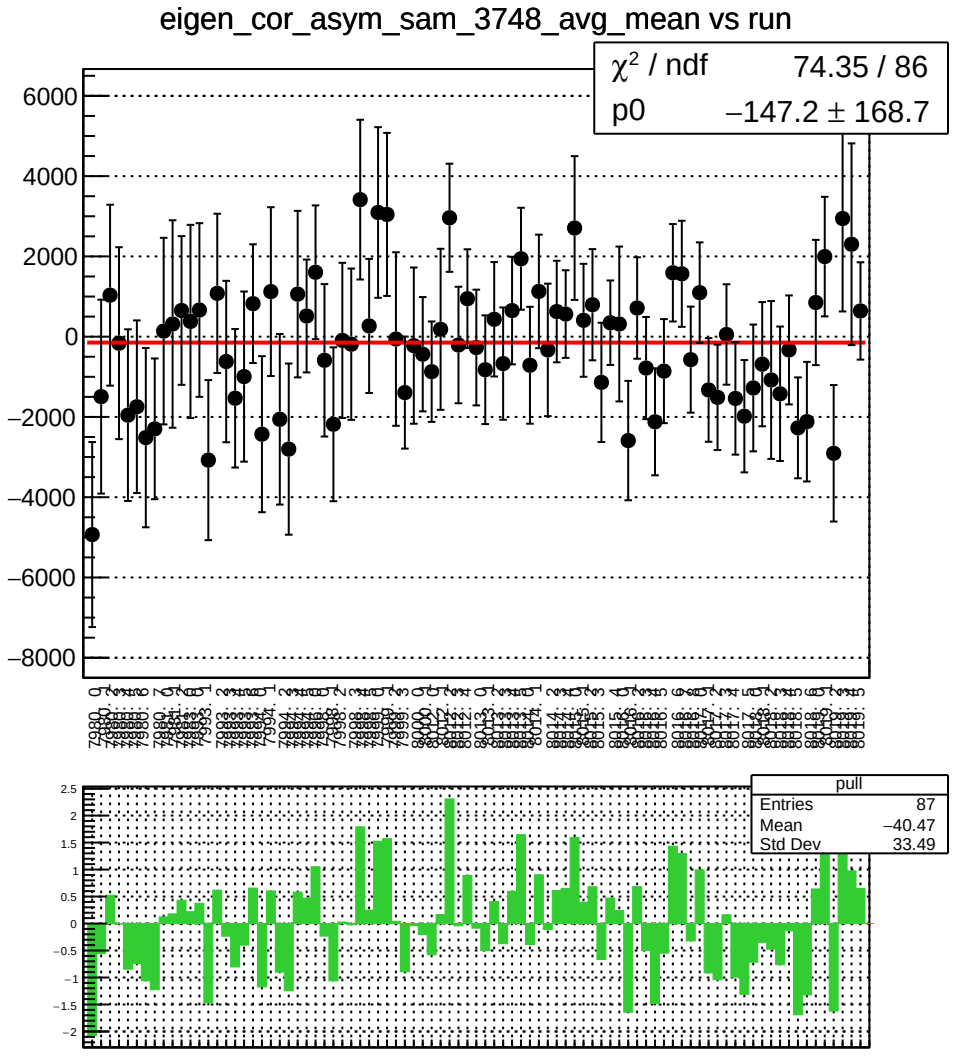

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 74.35 / 86
p0 −147.2 ± 168.7
pull
Entries 87
Mean −40.47
Std Dev 33.49

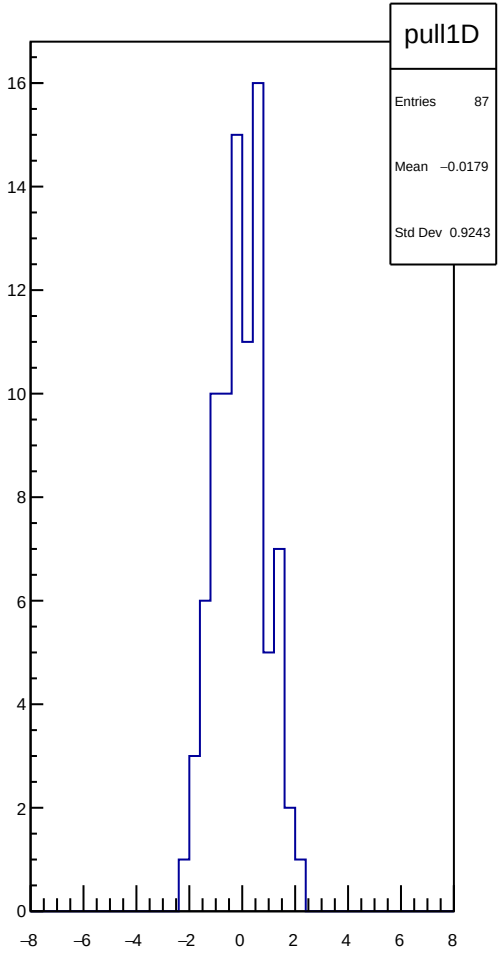

pull1D
Entries 87
Mean −0.0179
Std Dev 0.9243

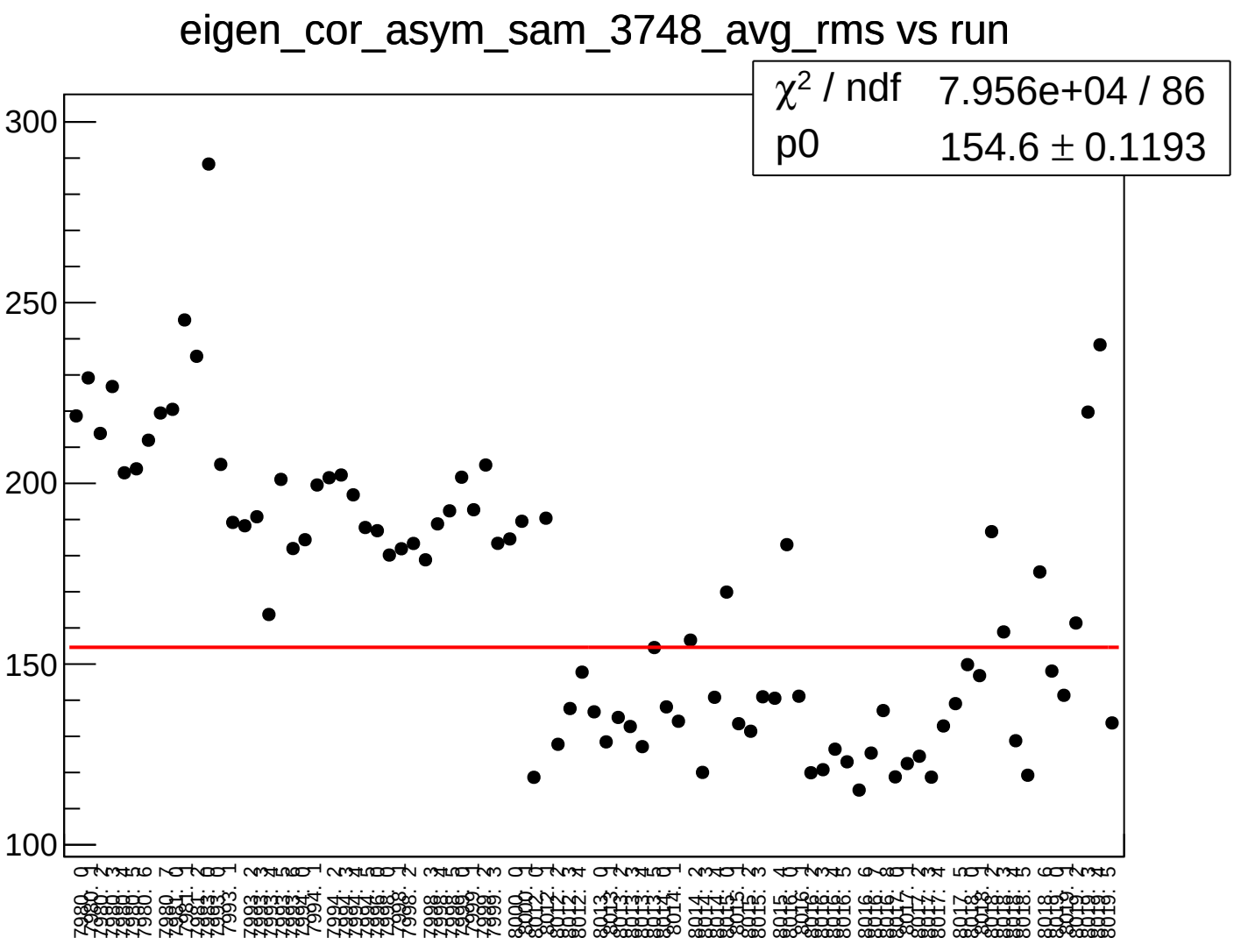

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 7.956e+04 / 86
p0 154.6 ± 0.1193
300
250
200
150
100

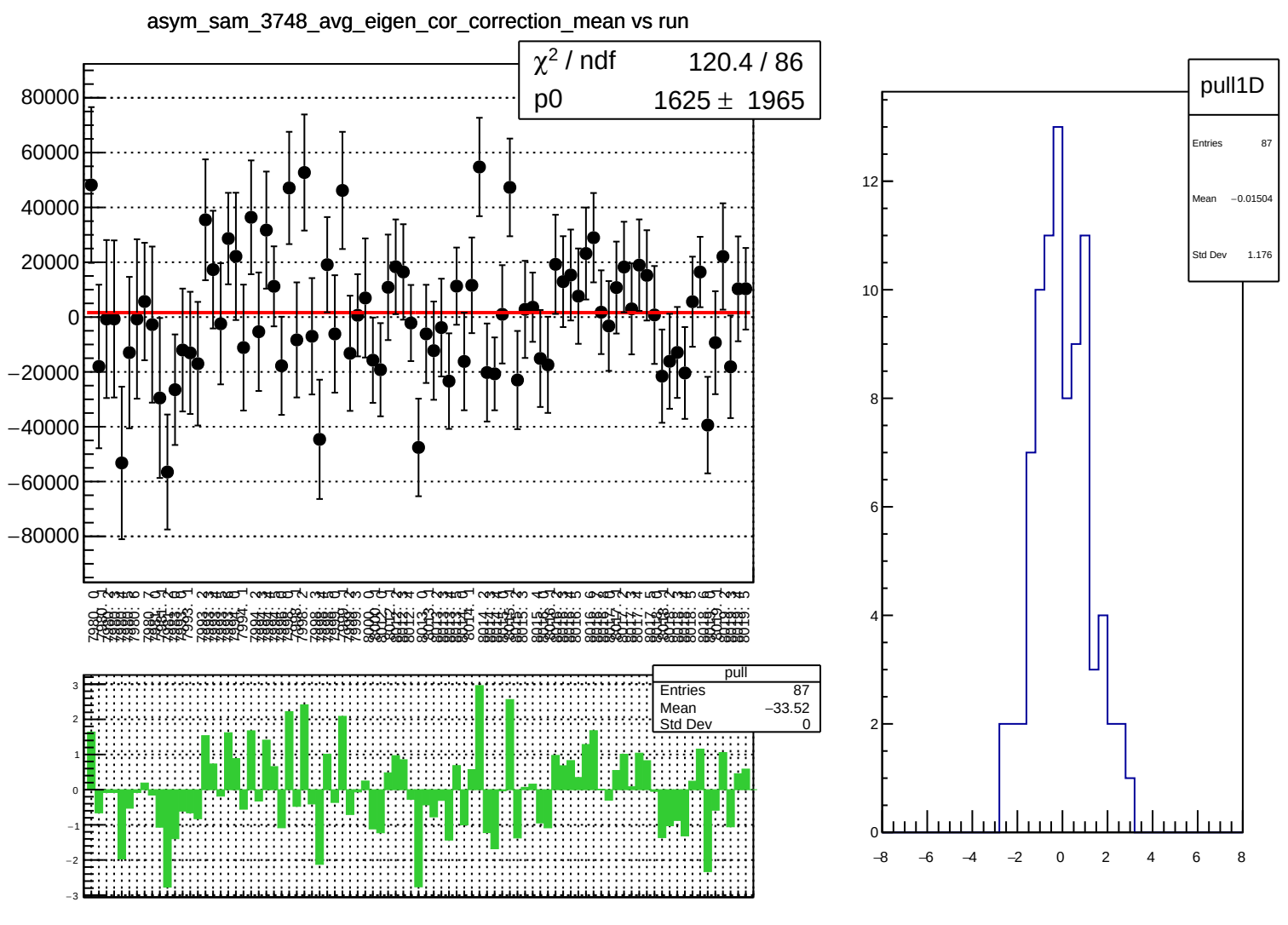

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 120.4 / 86
p0 1625 ± 1965
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −33.52
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.01504
Std Dev 1.176
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

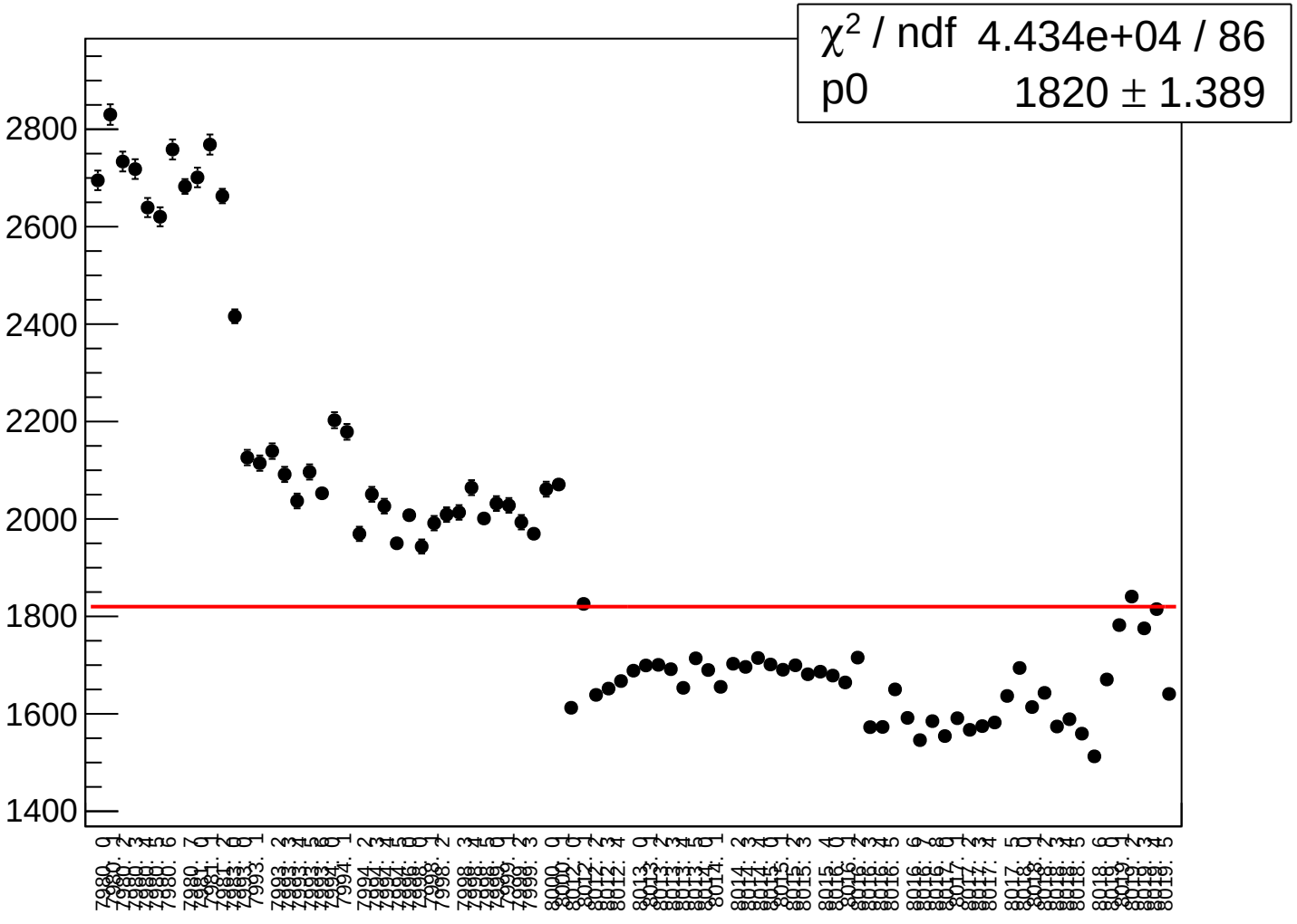

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 4.434e+04 / 86
p0 1820 ± 1.389
2800
2600
2400
2200
2000
1800
1600
1400

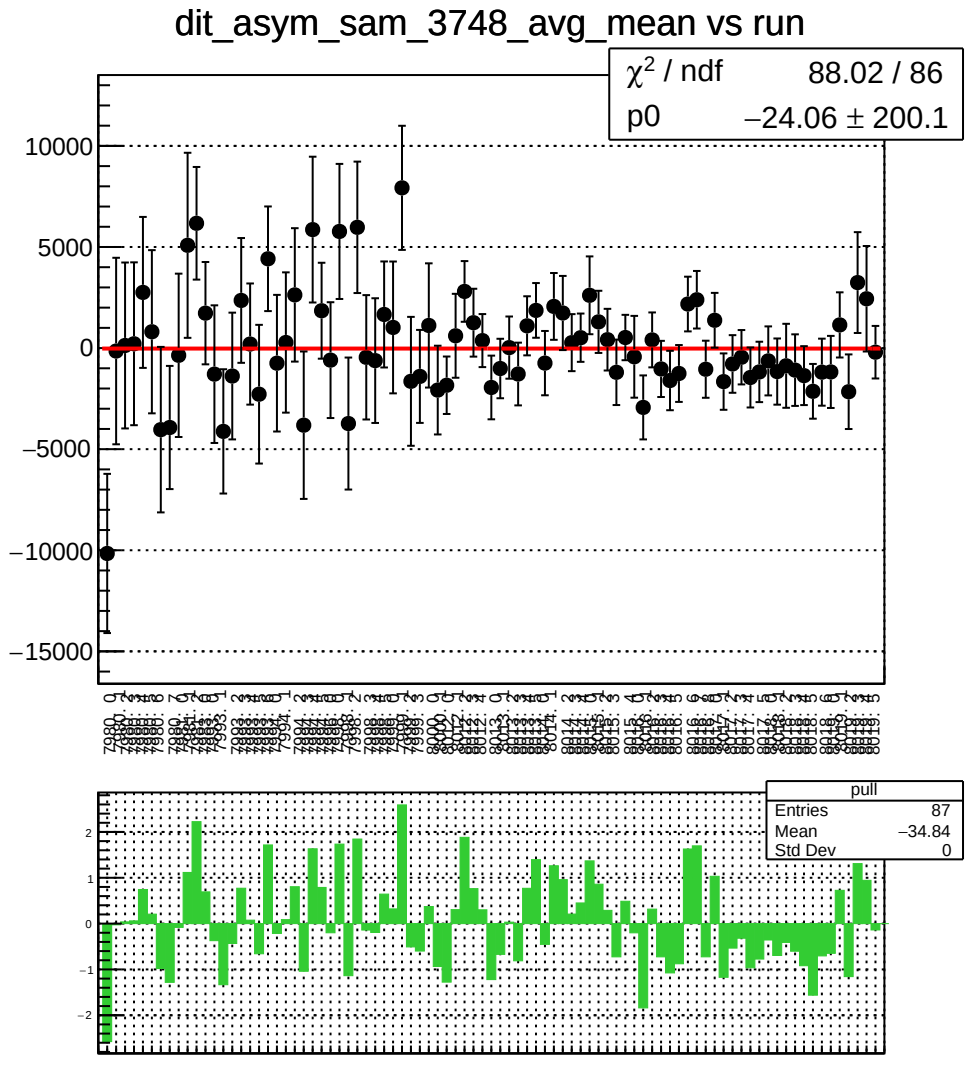

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 74.35 / 86
p0 −147.2 ± 168.7
pull
Entries 87
Mean −40.47
Std Dev 33.49

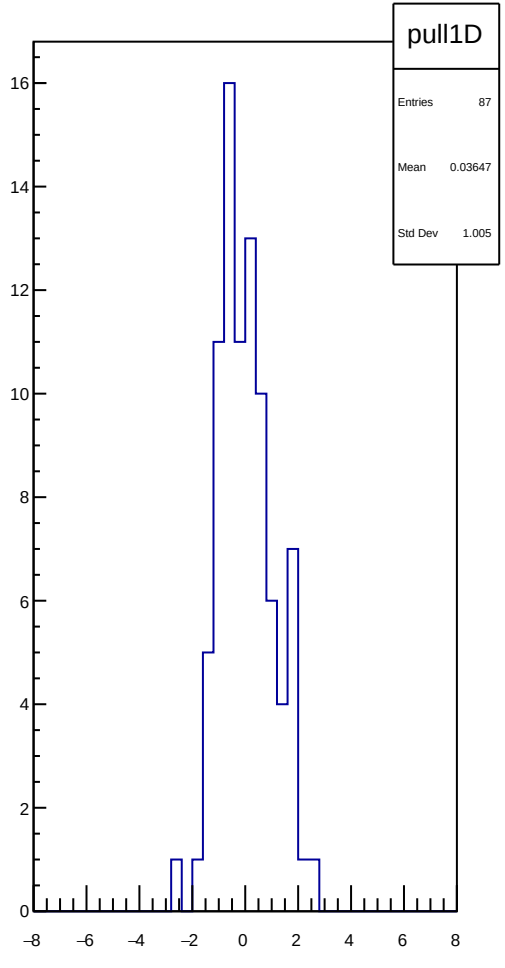

pull1D
Entries 87
Mean −0.0179
Std Dev 0.9243

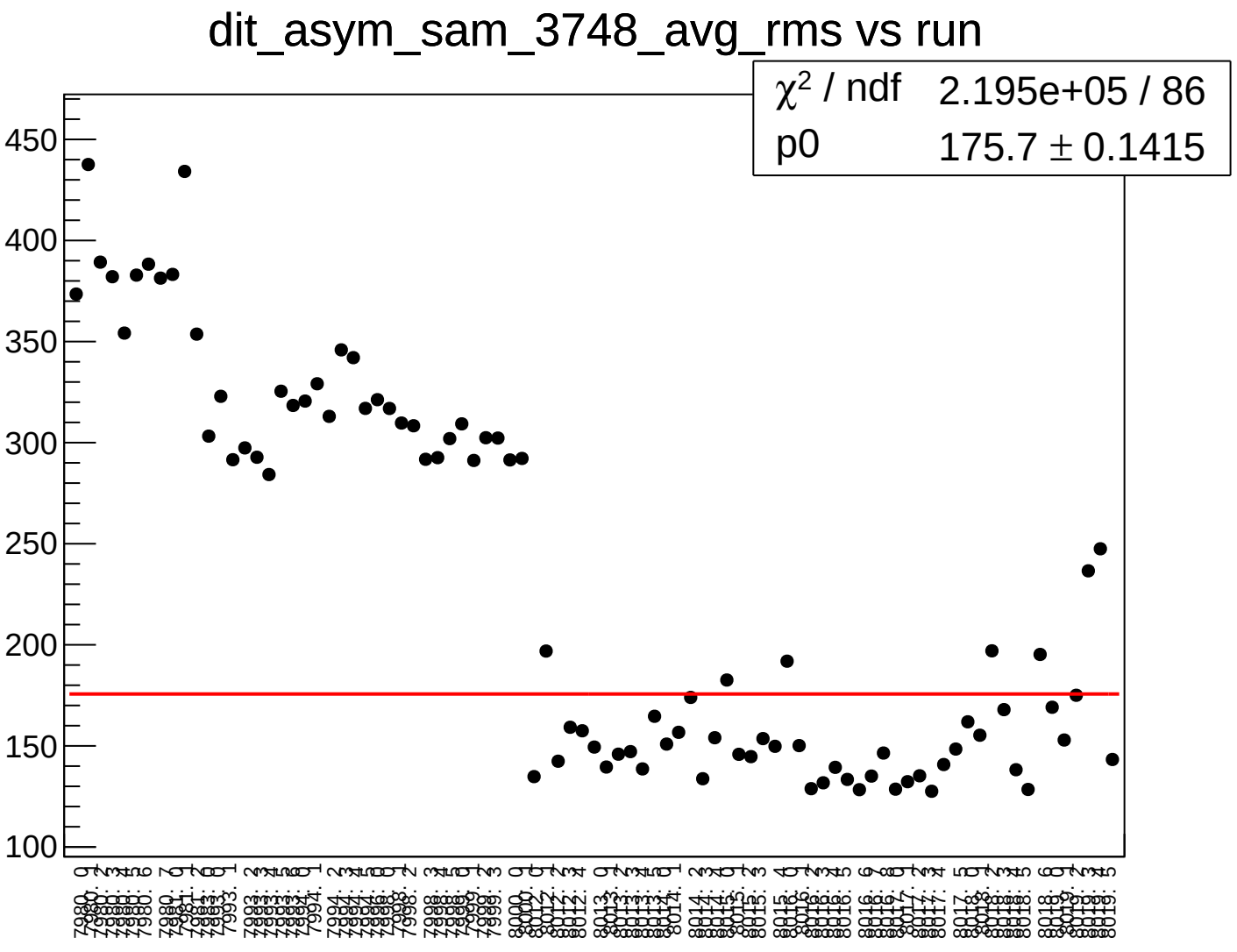

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 7.956e+04 / 86
p0 154.6 ± 0.1193
300
250
200
150
100

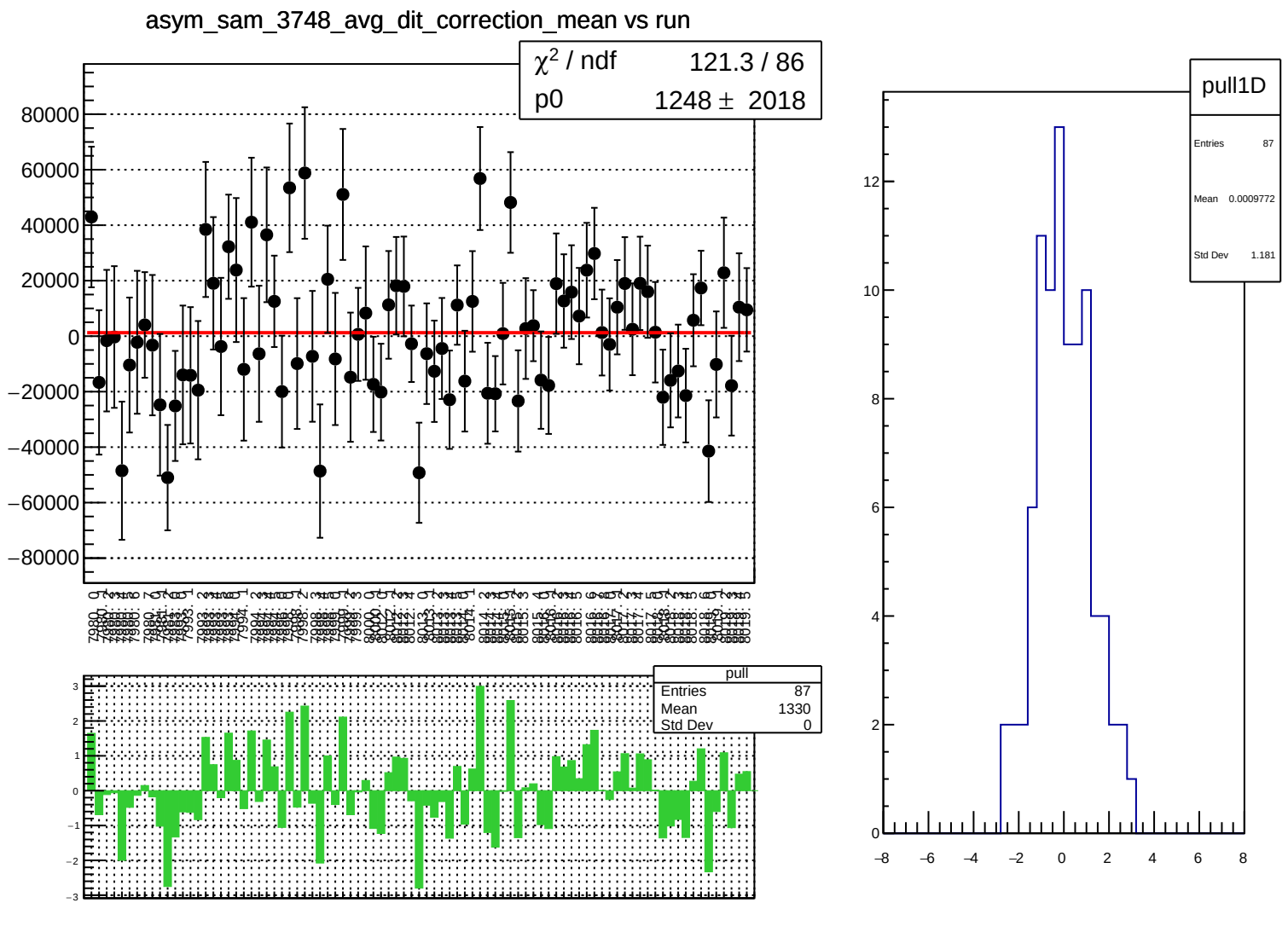

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 120.4 / 86
p0 1625 ± 1965
pull
Entries 87
Mean −33.52
Std Dev 0
pull1D
Entries 87
Mean −0.01504
Std Dev 1.176

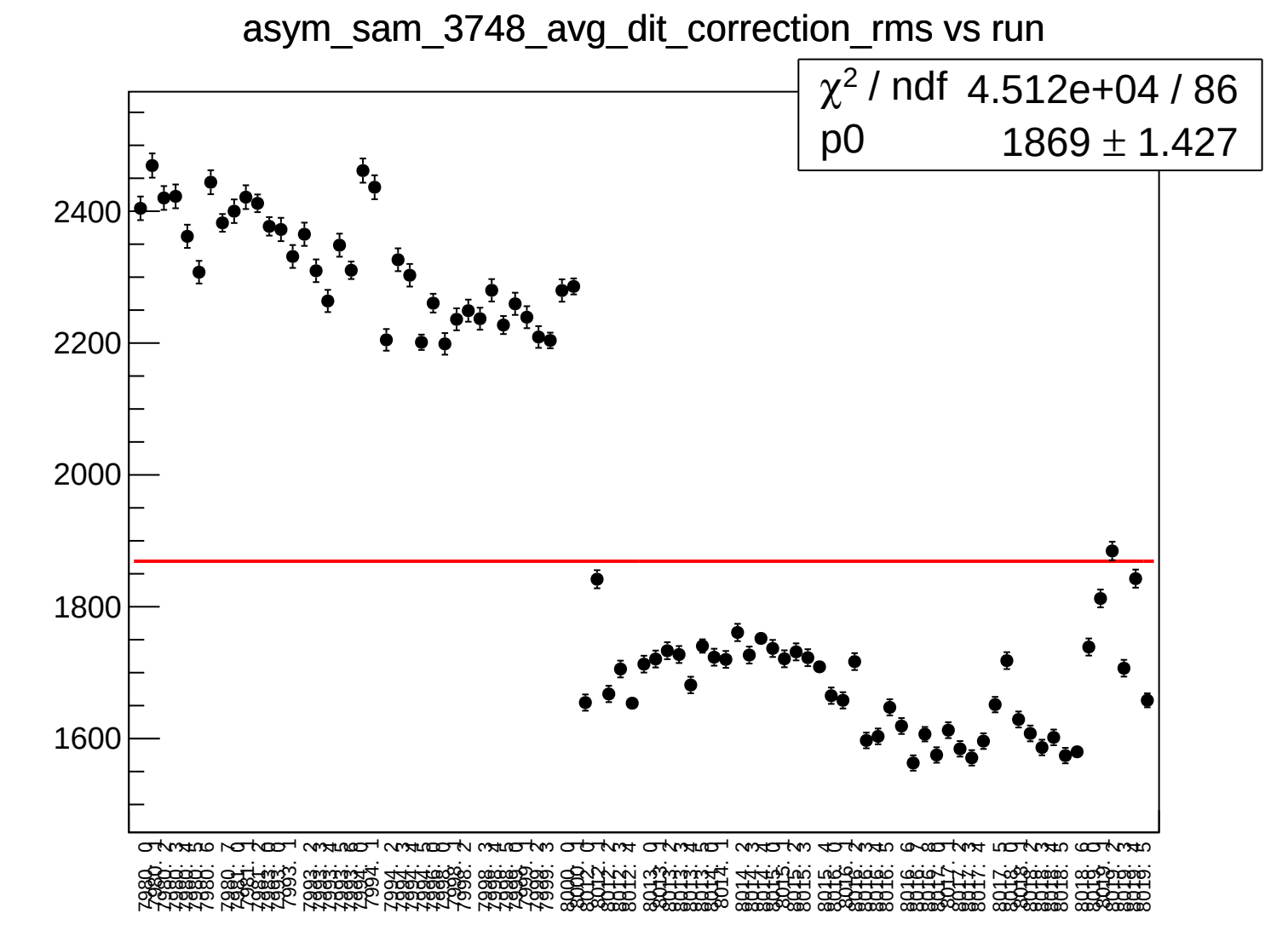

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.434e+04 / 86
p0 1820 ± 1.389
2800
2600
2400
2200
2000
1800
1600
1400

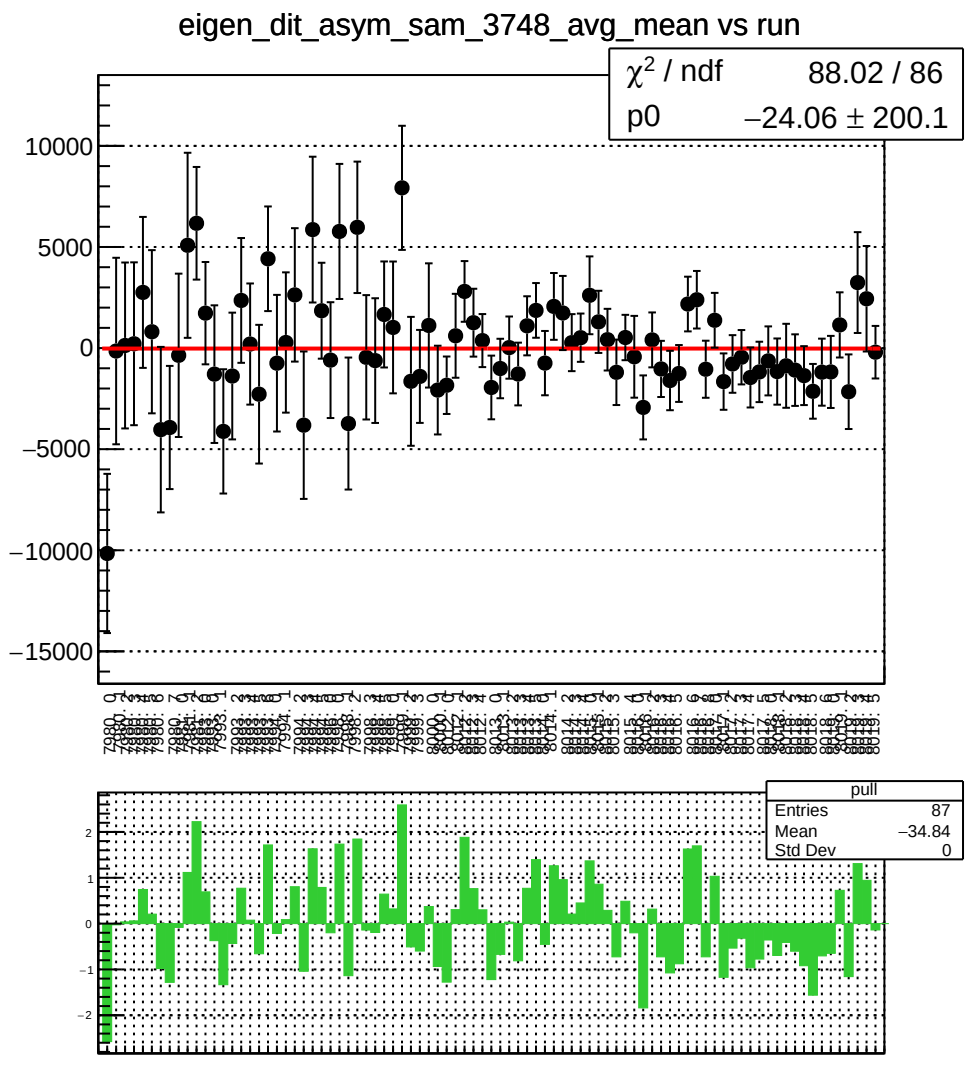

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 88.02 / 86
p0 −24.06 ± 200.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −34.84
Std Dev 0
2
1
0
−1
−2

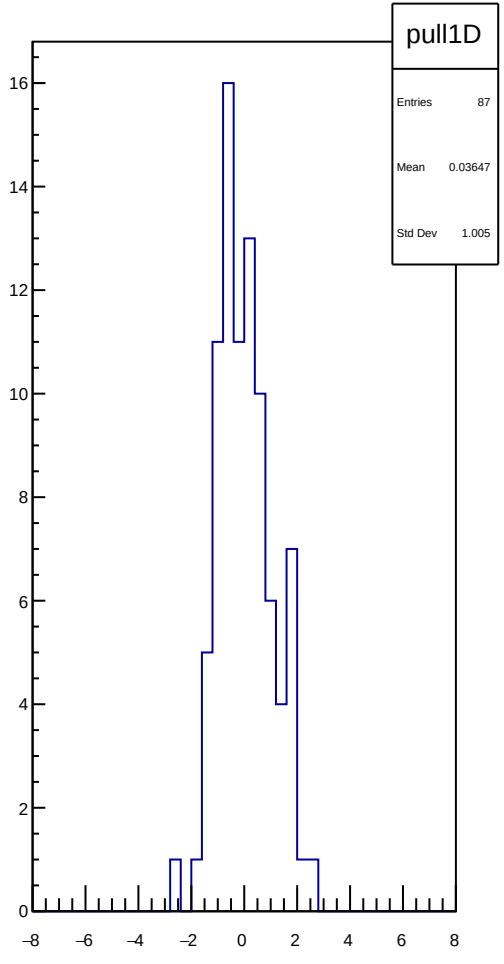

pull1D
Entries 87
Mean 0.03647
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

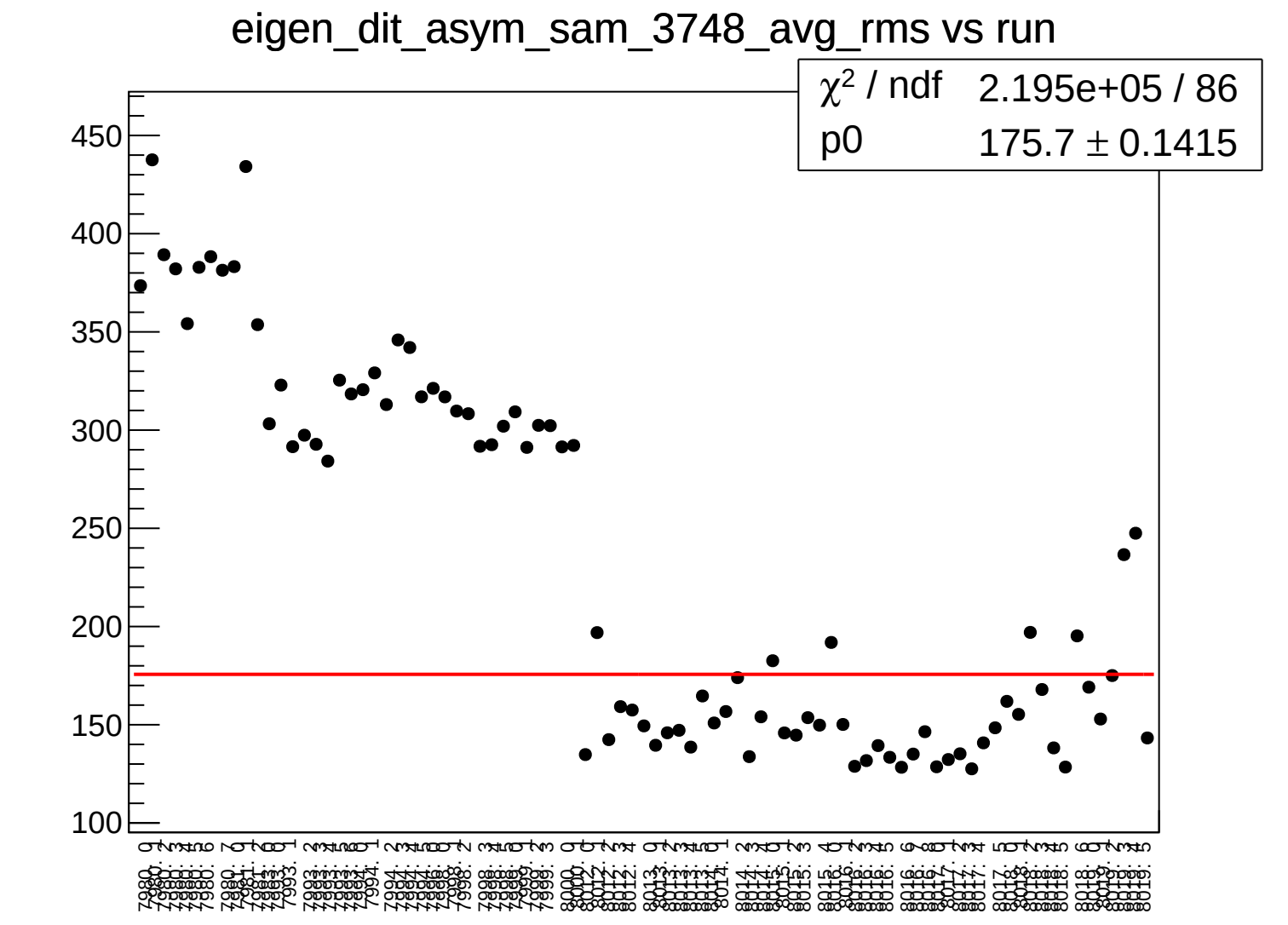

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.195e+05 / 86
p0 175.7 ± 0.1415
450
400
350
300
250
200
150
100

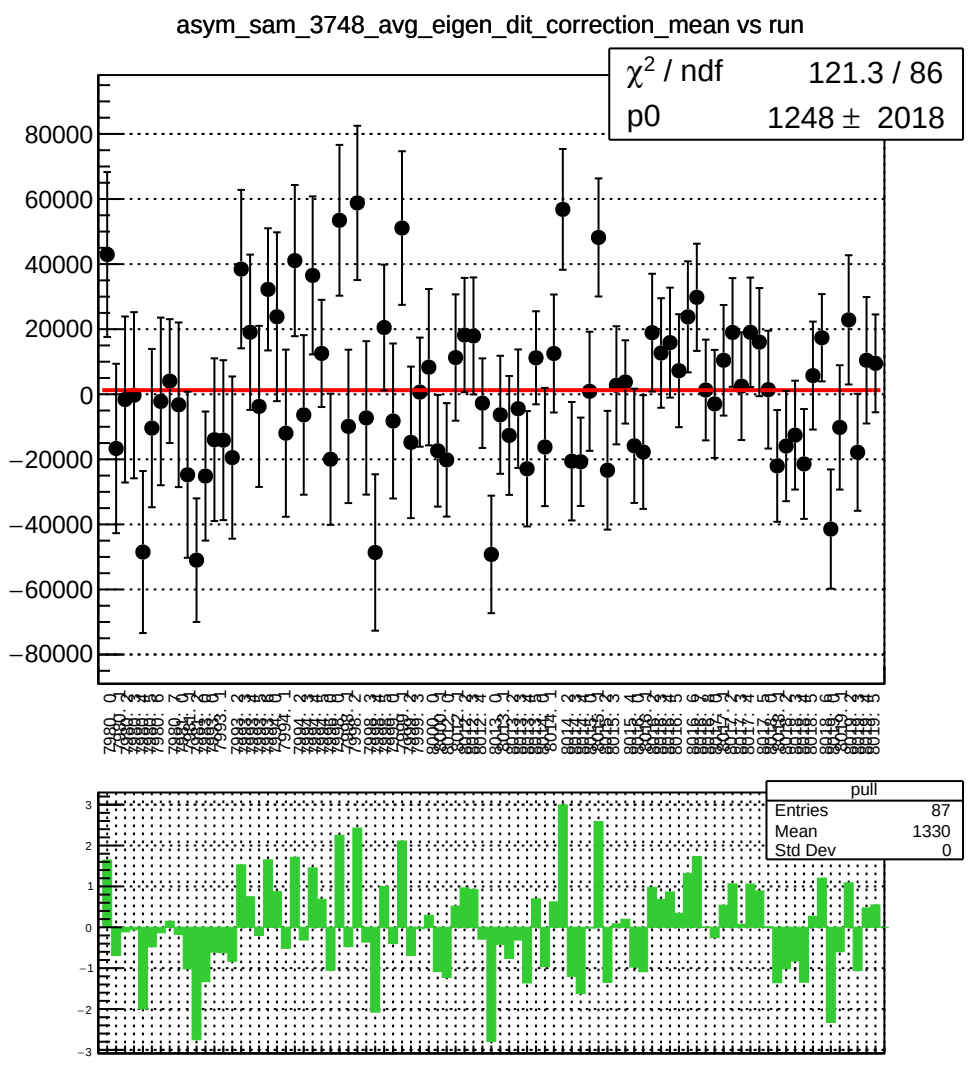

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 121.3 / 86
p0 1248 ± 2018
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 1330
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.0009772
Std Dev 1.181
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

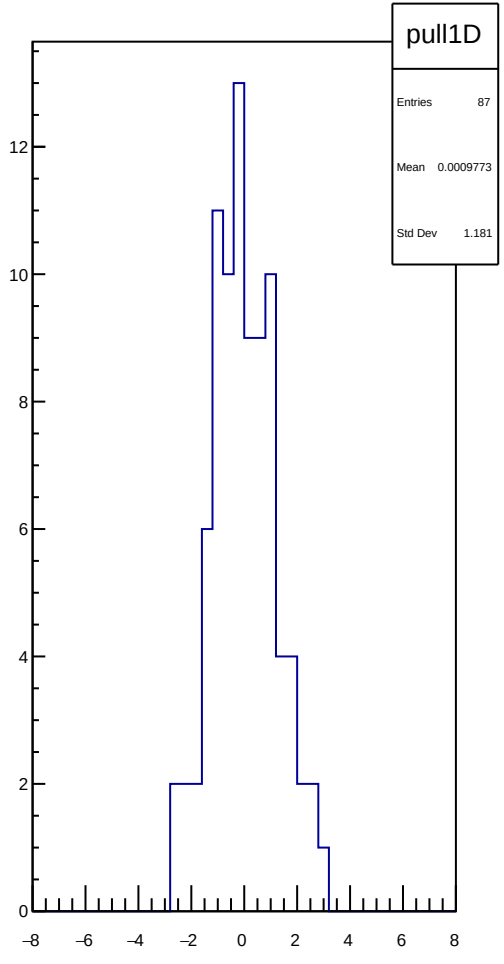

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 4.512e+04 / 86
p0 1869 ± 1.427
2400
2200
2000
1800
1600

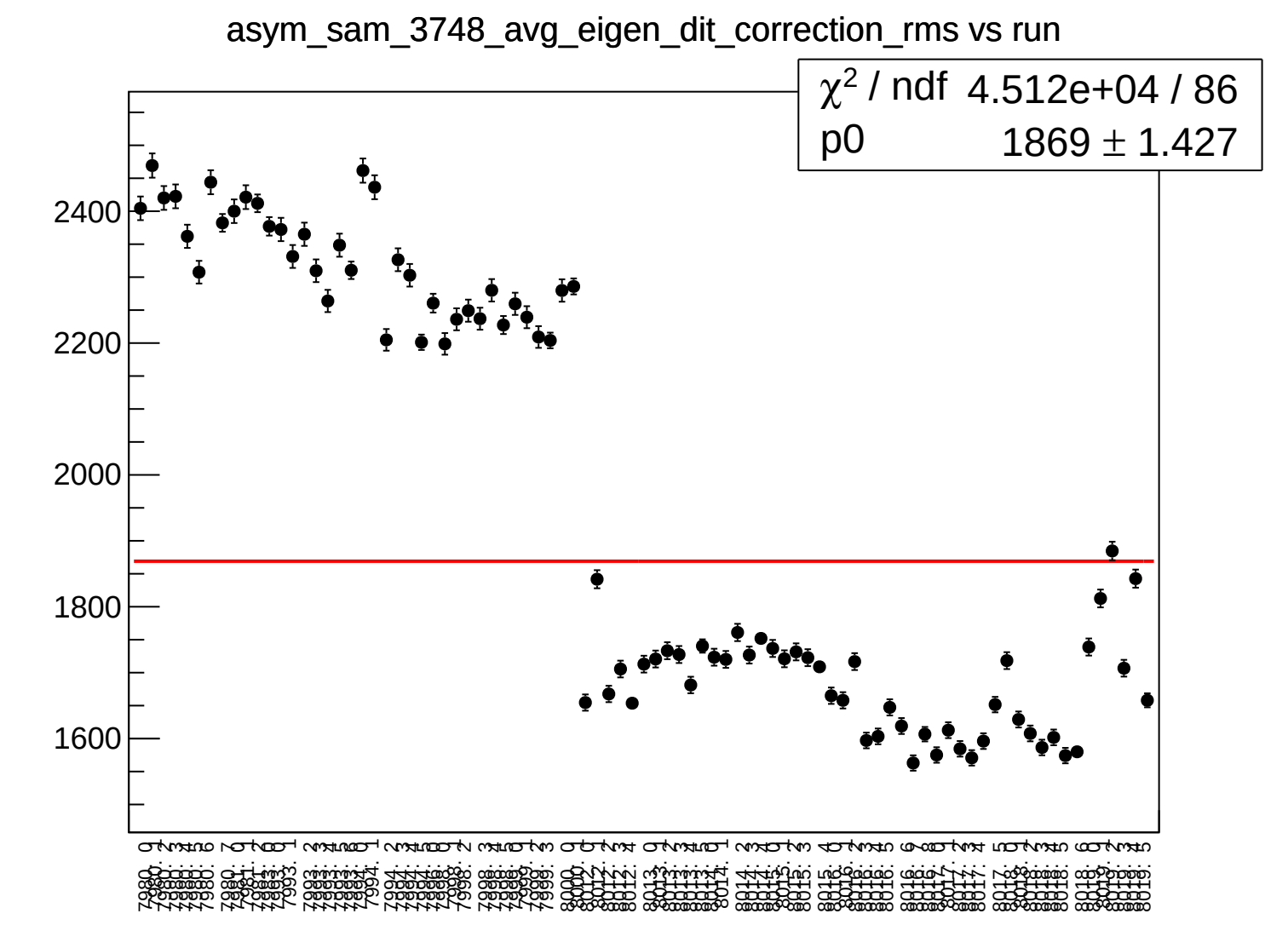

eigen_dit_asym_sam_3748_avg_mean vs run
χ^2 / ndf 88.02 / 86
p0 −24.06 ± 200.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −34.84
Std Dev 0
2
1
0
−1
−2

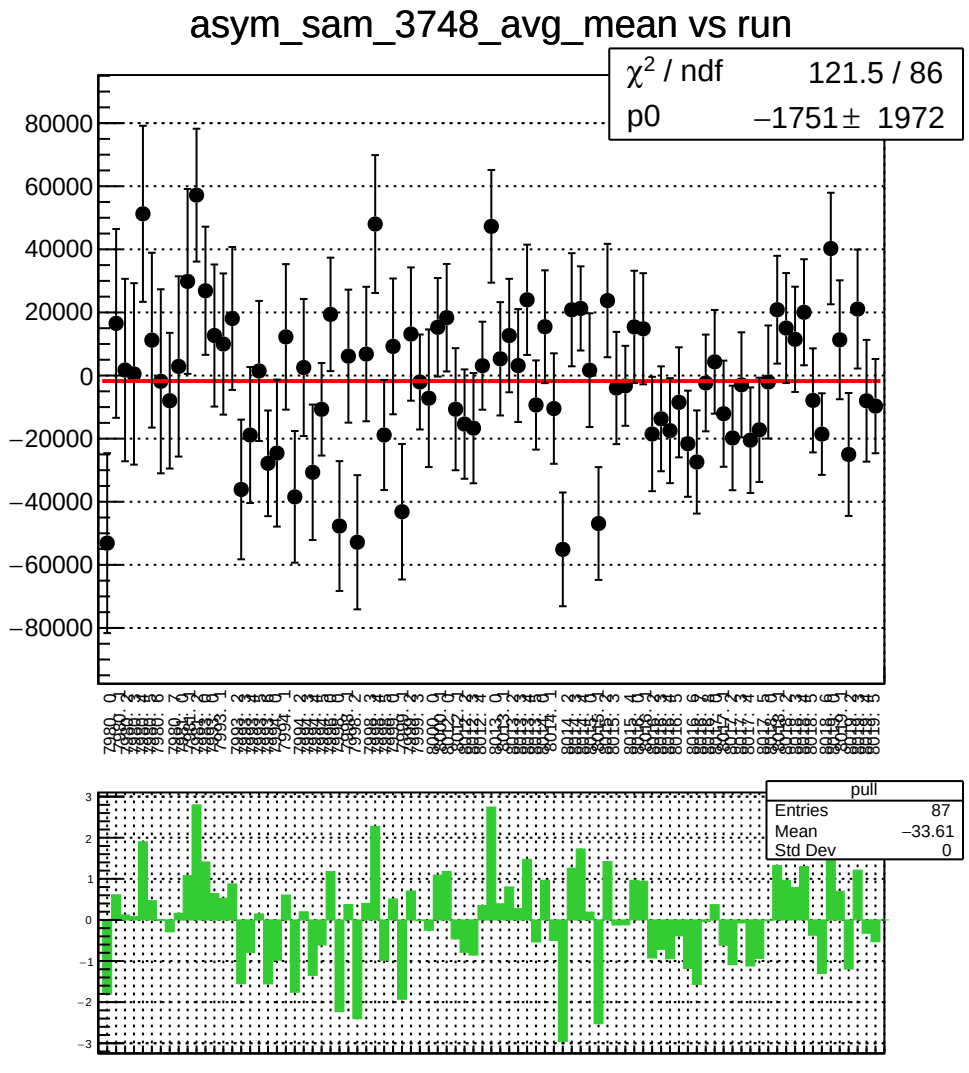

pull1D
Entries 87
Mean 0.03647
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

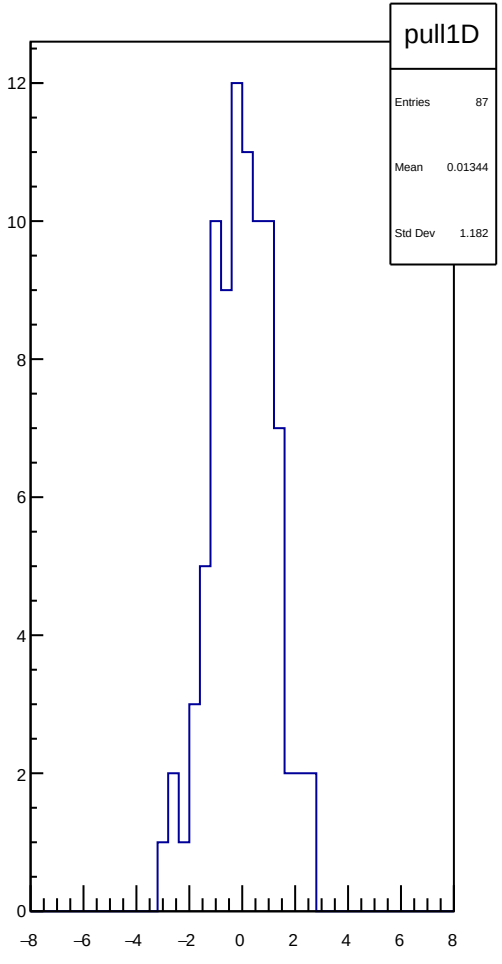

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.195e+05 / 86
p0 175.7 ± 0.1415
450
400
350
300
250
200
150
100

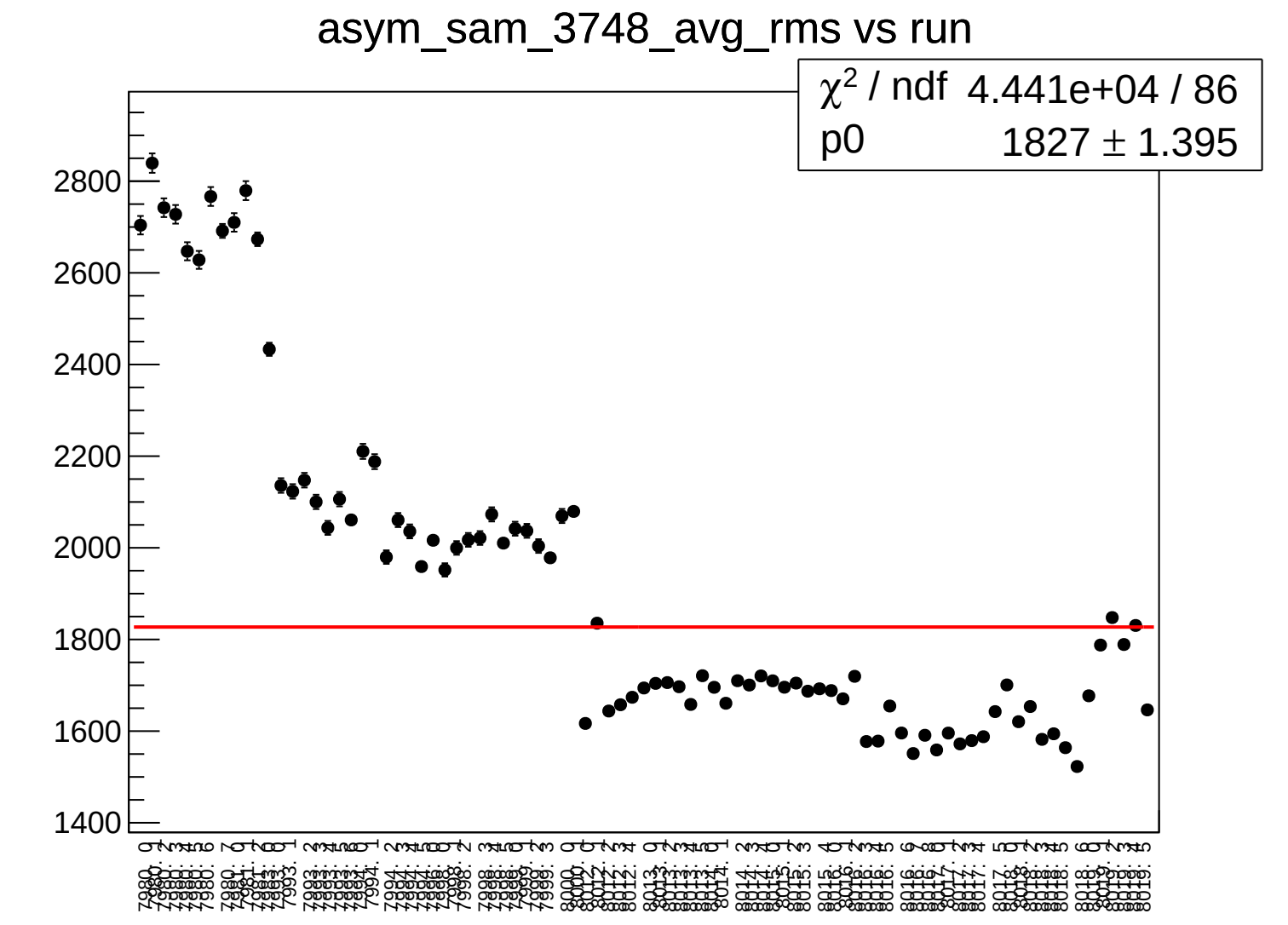

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 121.3 / 86
p0 1248 ± 2018
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 1330
Std Dev 0
3
2
1
0
−1
−2
−3

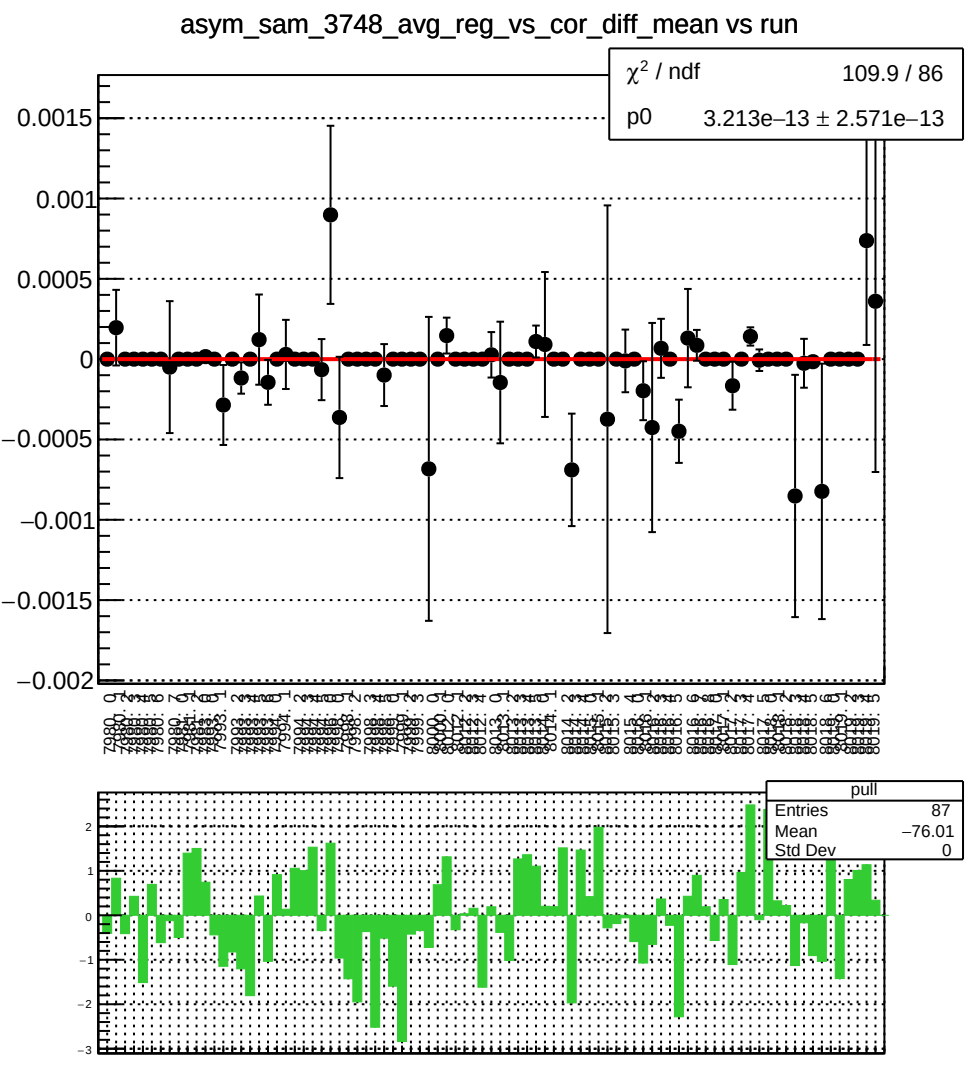

pull1D
Entries 87
Mean 0.0009773
Std Dev 1.181
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

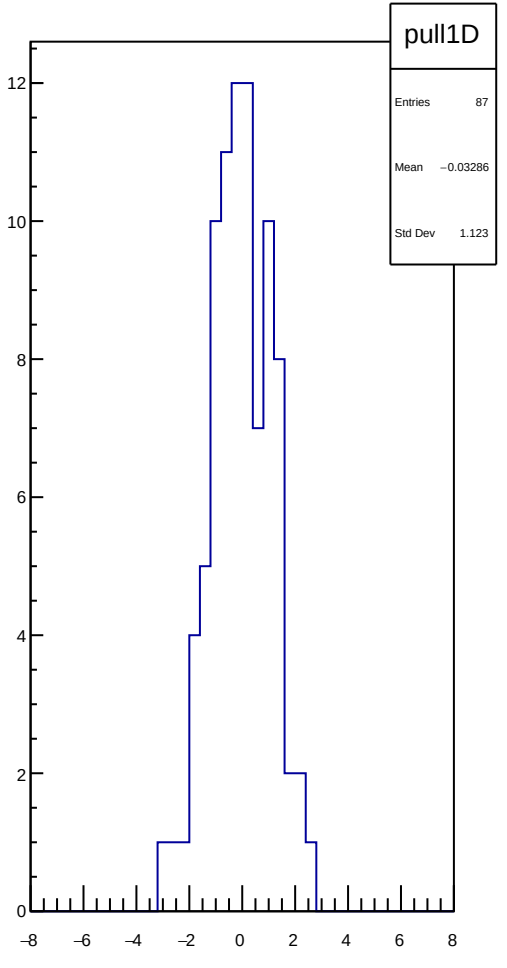

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.512e+04 / 86
p0 1869 ± 1.427
2400
2200
2000
1800
1600

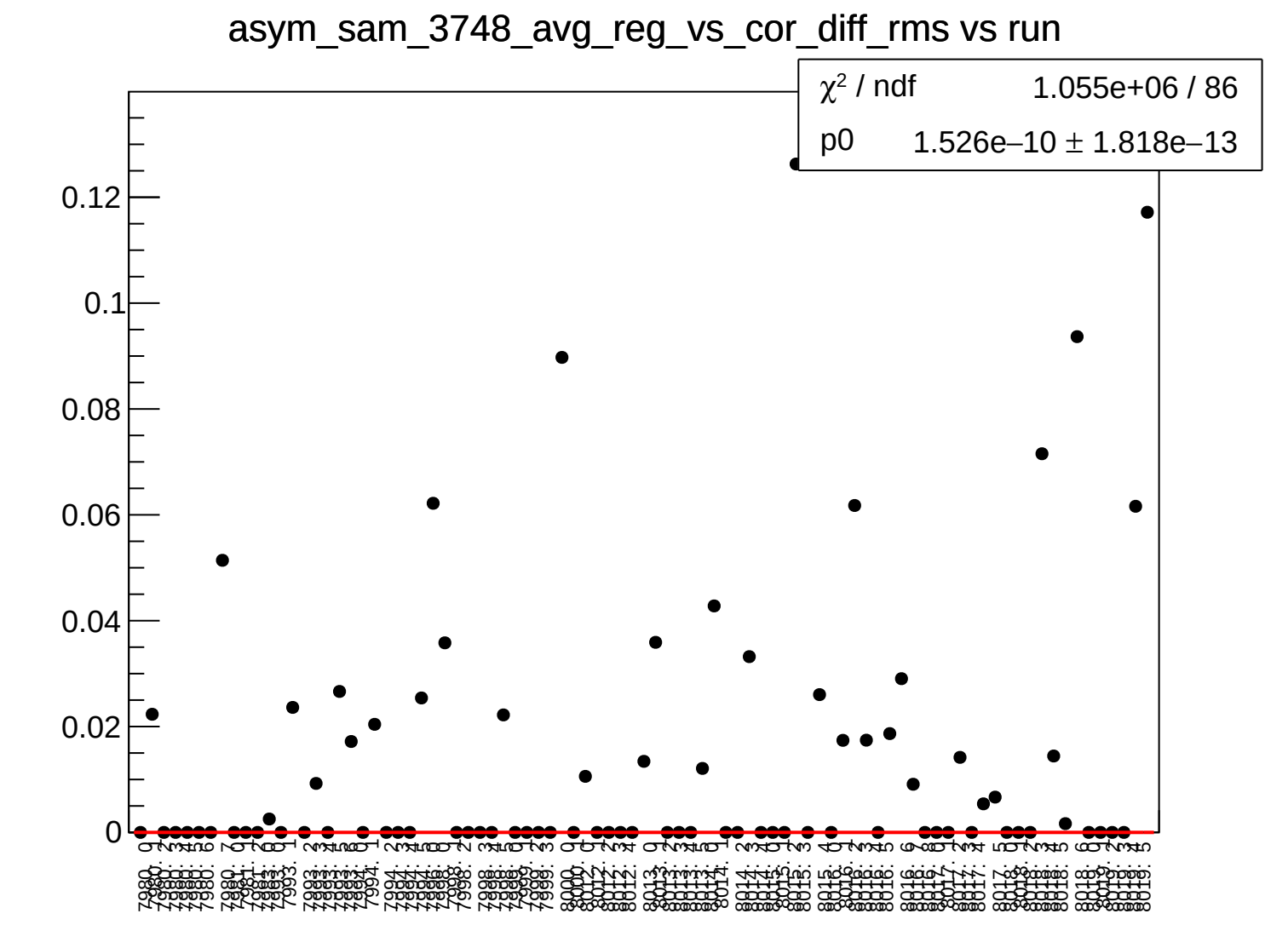

asym_sam_3748_avg_mean vs run
χ² / ndf 121.5 / 86
p0 −1751 ± 1972
pull
Entries 87
Mean −33.61
Std Dev 0

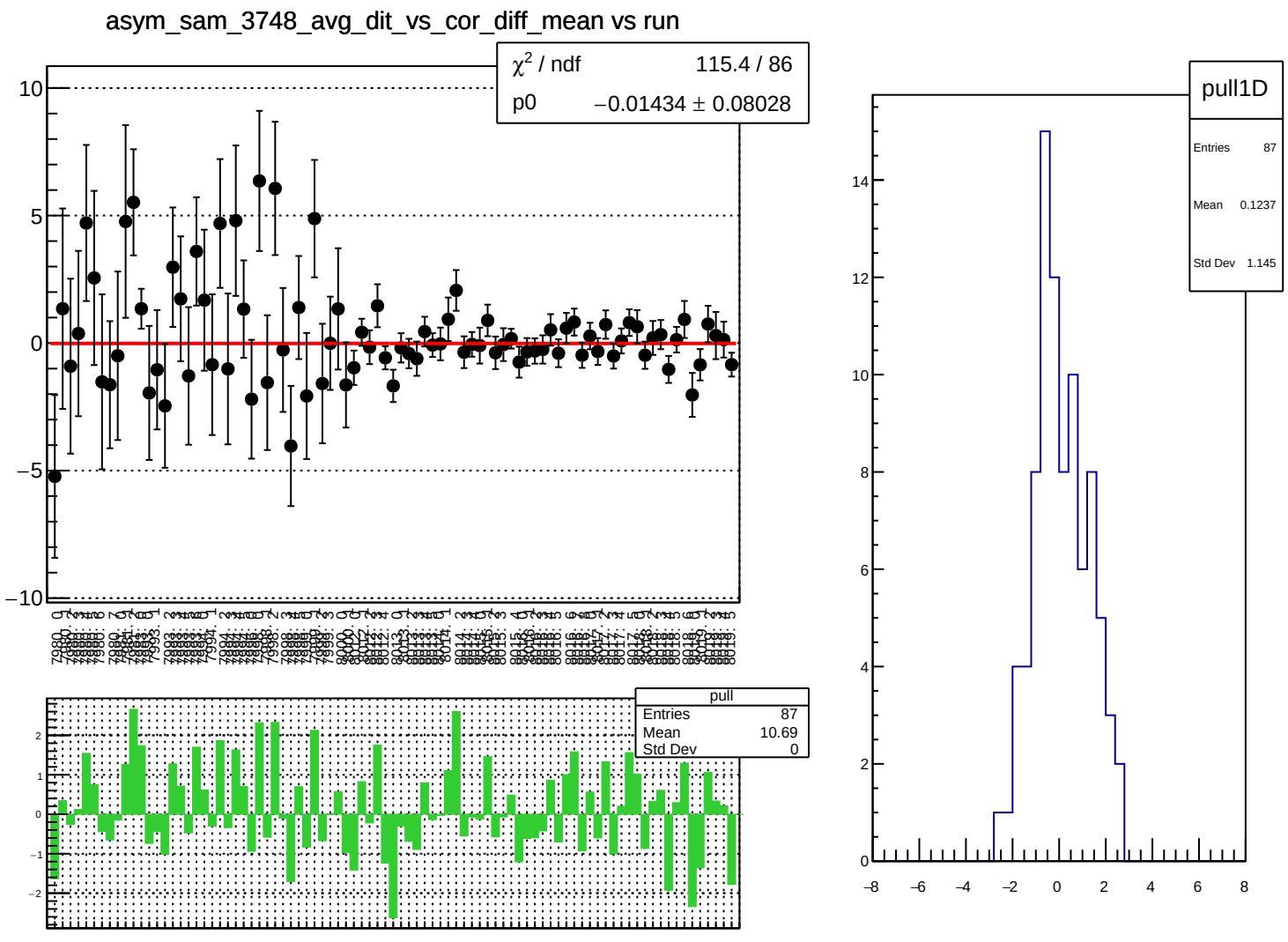

pull1D
Entries 87
Mean 0.01344
Std Dev 1.182

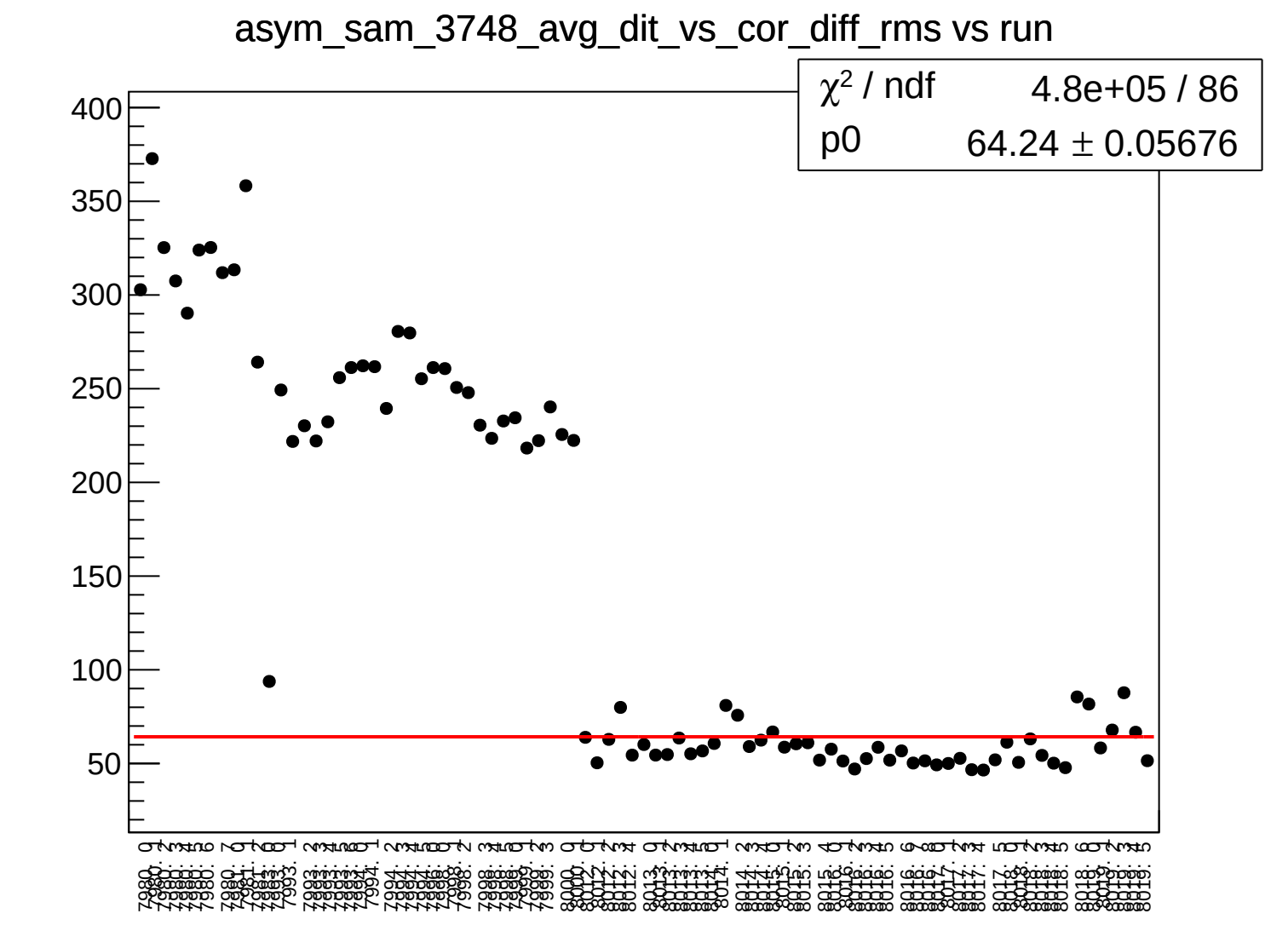

asym_sam_3748_avg_rms vs run
χ^2 / ndf 4.441e+04 / 86
p0 1827 ± 1.395
2800
2600
2400
2200
2000
1800
1600
1400

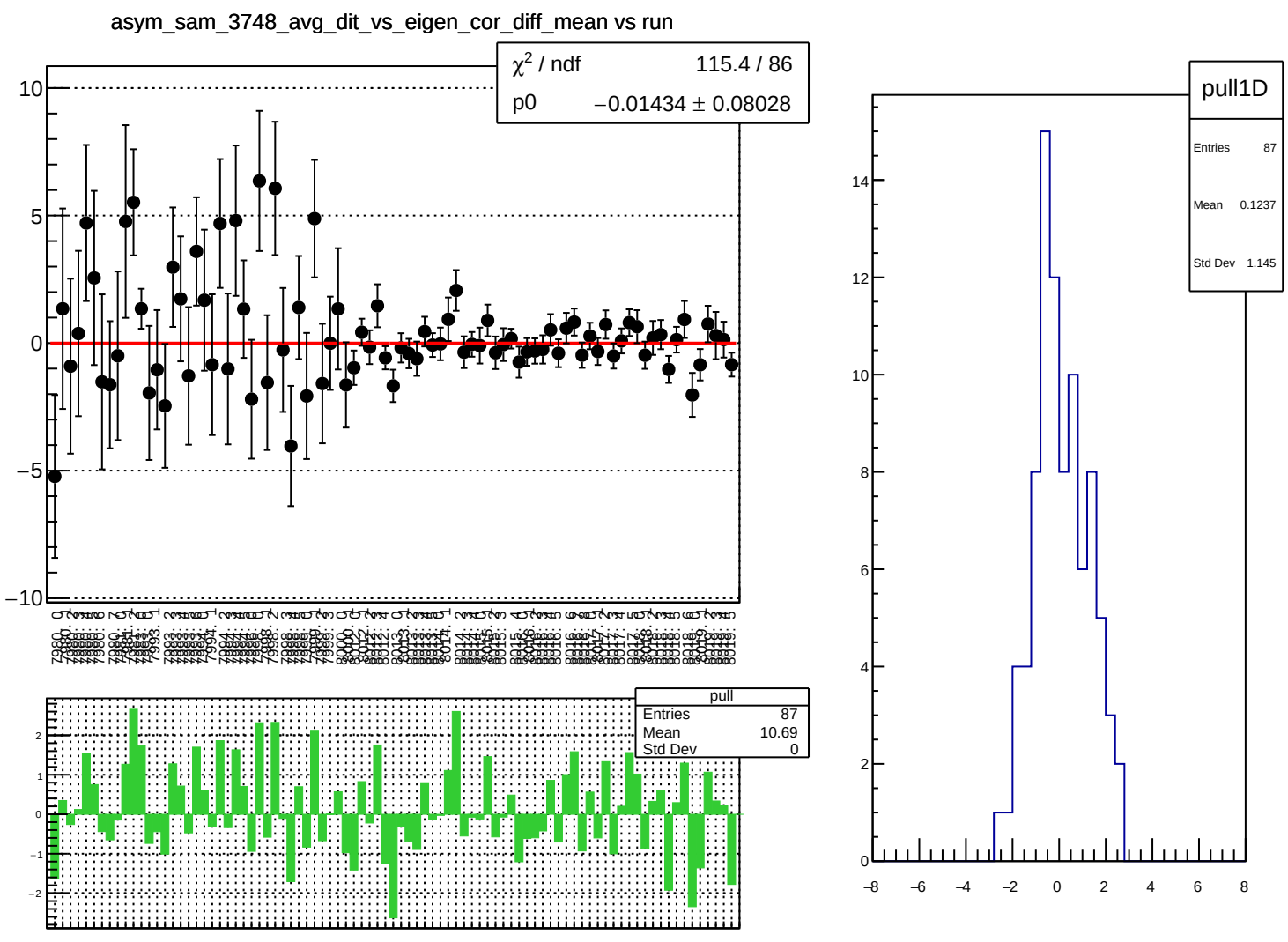

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.9 / 86
p0 3.213e−13 ± 2.571e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 87
Mean −76.01
Std Dev 0
2
1
0
−1
−2
−3

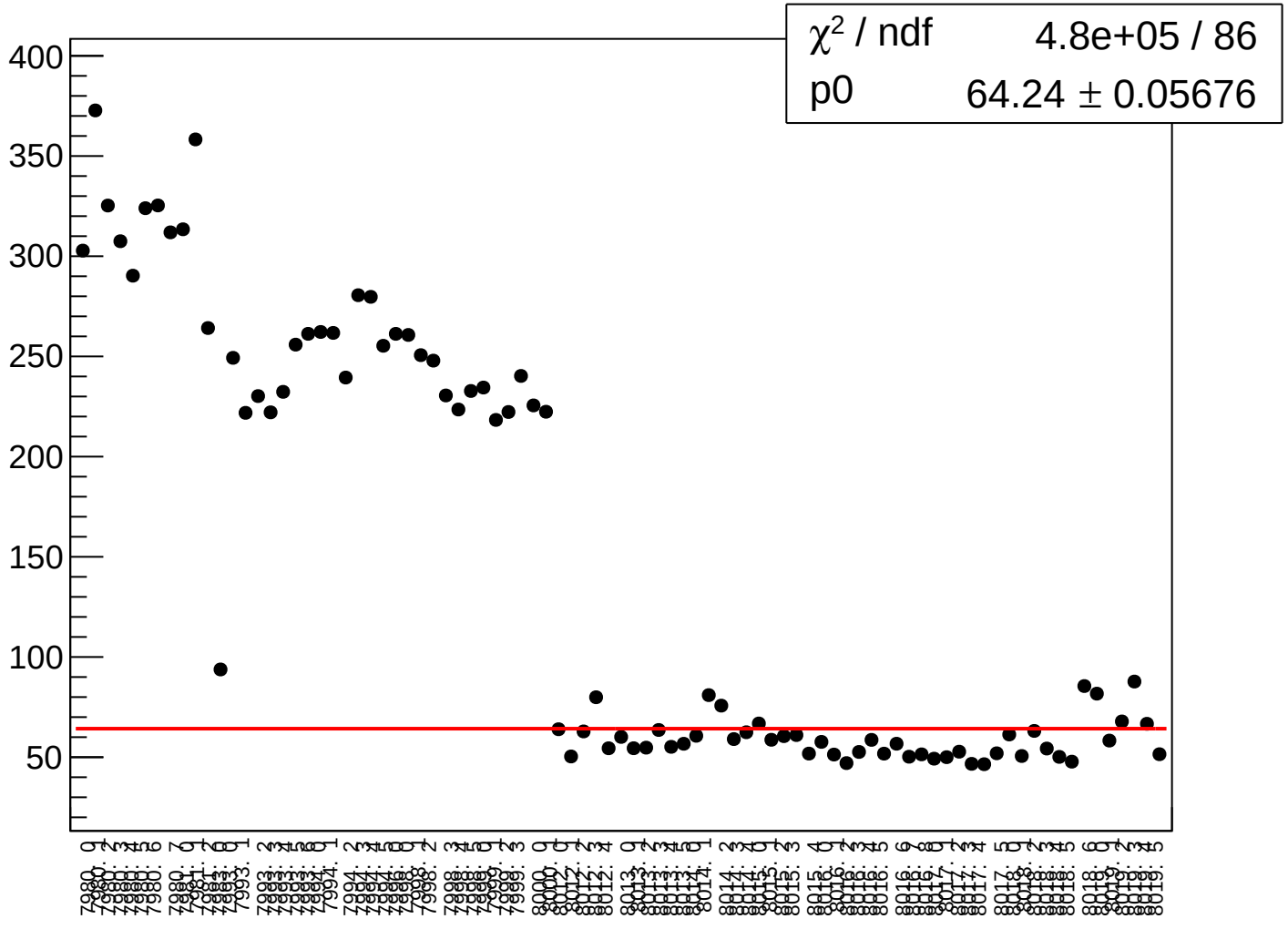

pull1D
Entries 87
Mean −0.03286
Std Dev 1.123
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

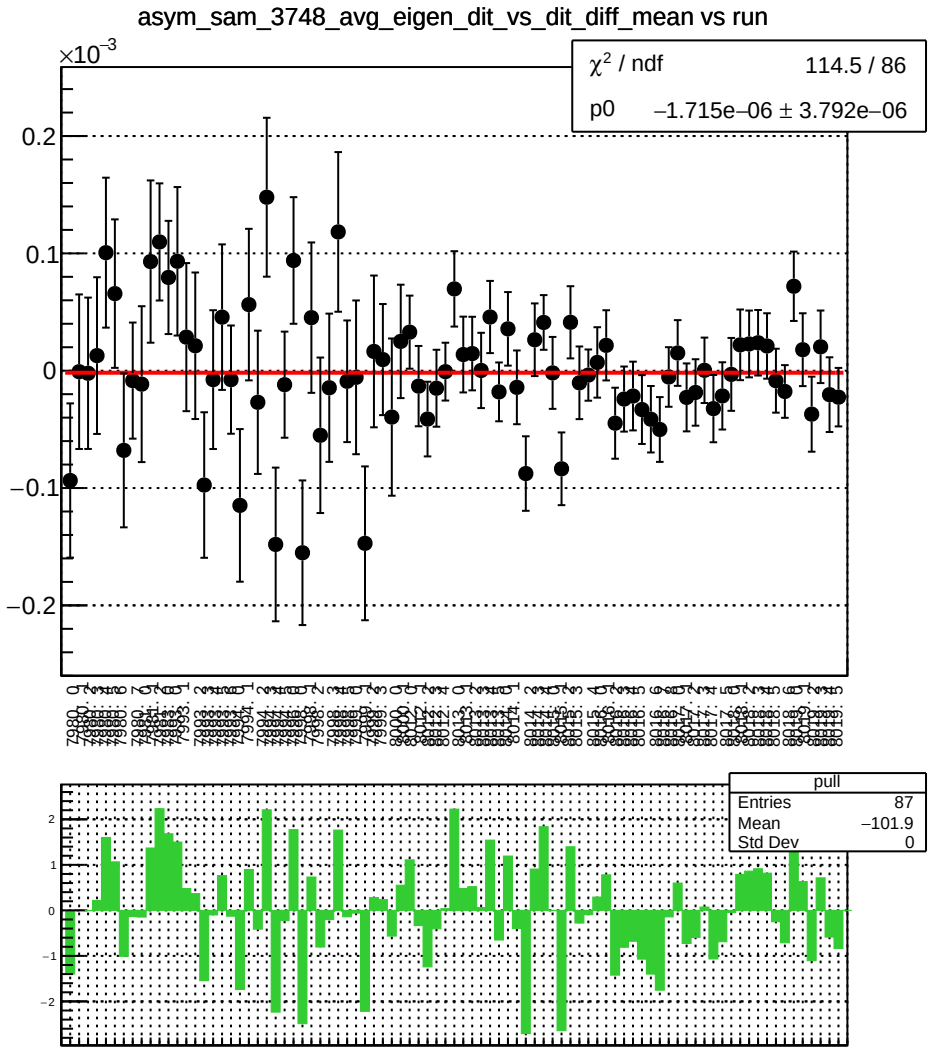

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.055e+06 / 86
p0 1.526e−10 ± 1.818e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

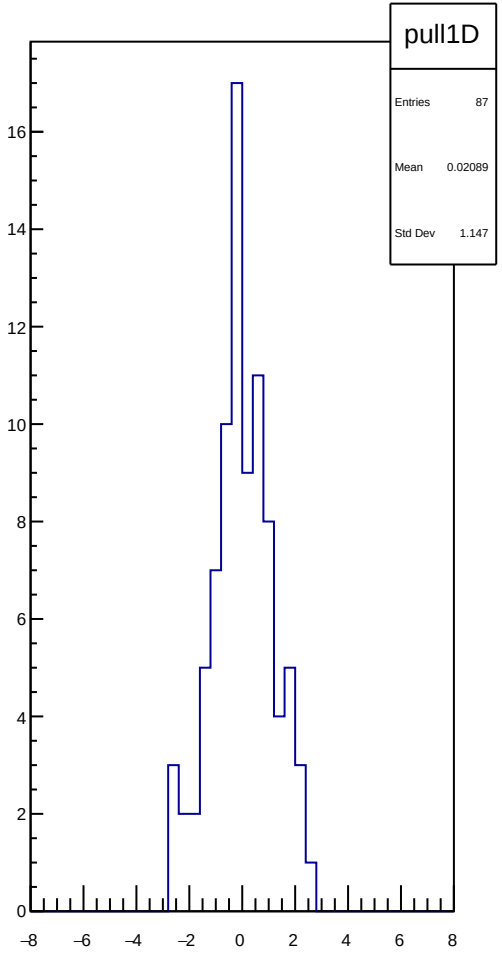

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 115.4 / 86
p0 −0.01434 ± 0.08028
pull
Entries 87
Mean 10.69
Std Dev 0
pull1D
Entries 87
Mean 0.1237
Std Dev 1.145

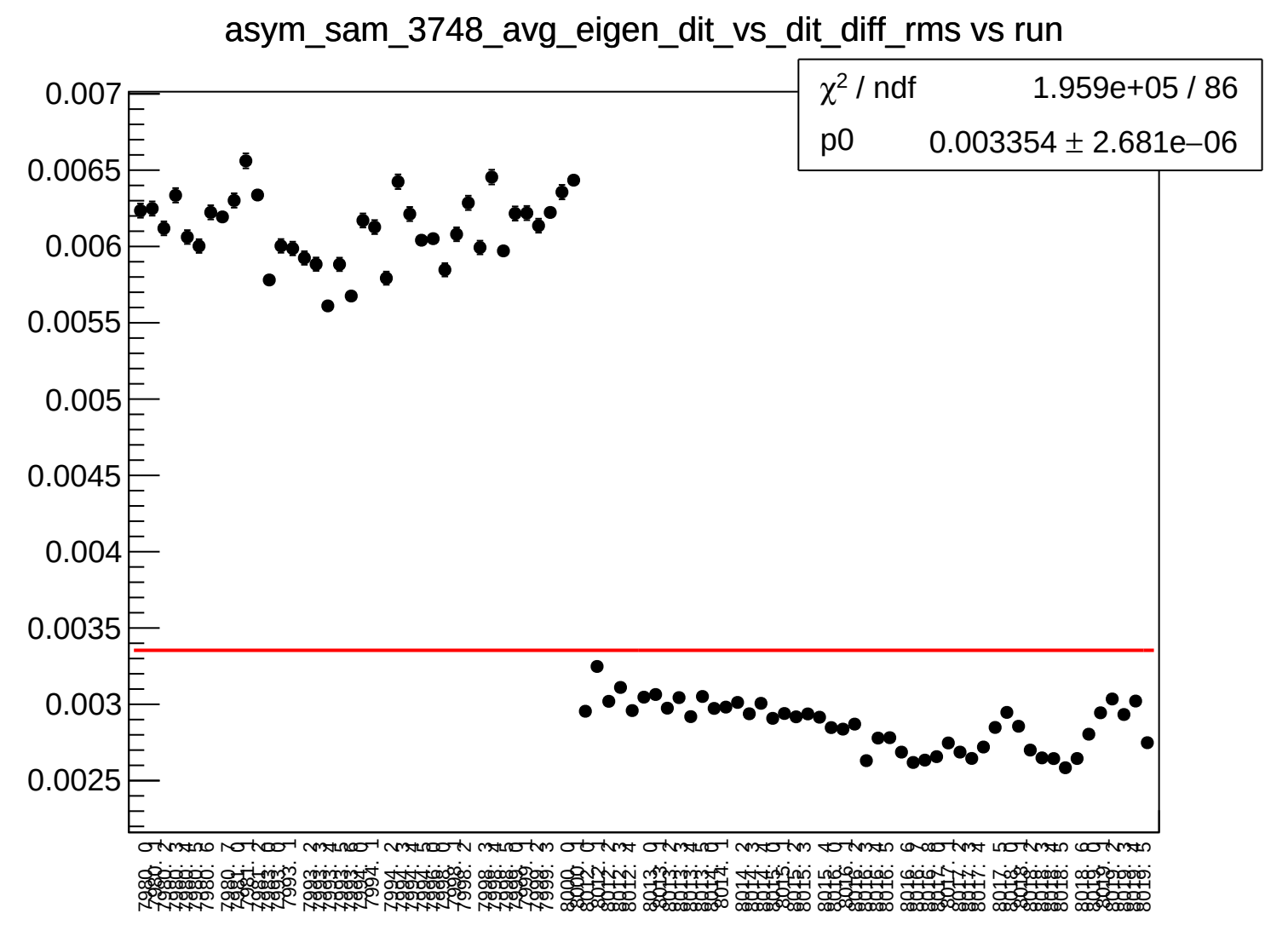

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.8e+05 / 86
p0 64.24 ± 0.05676
400
350
300
250
200
150
100
50

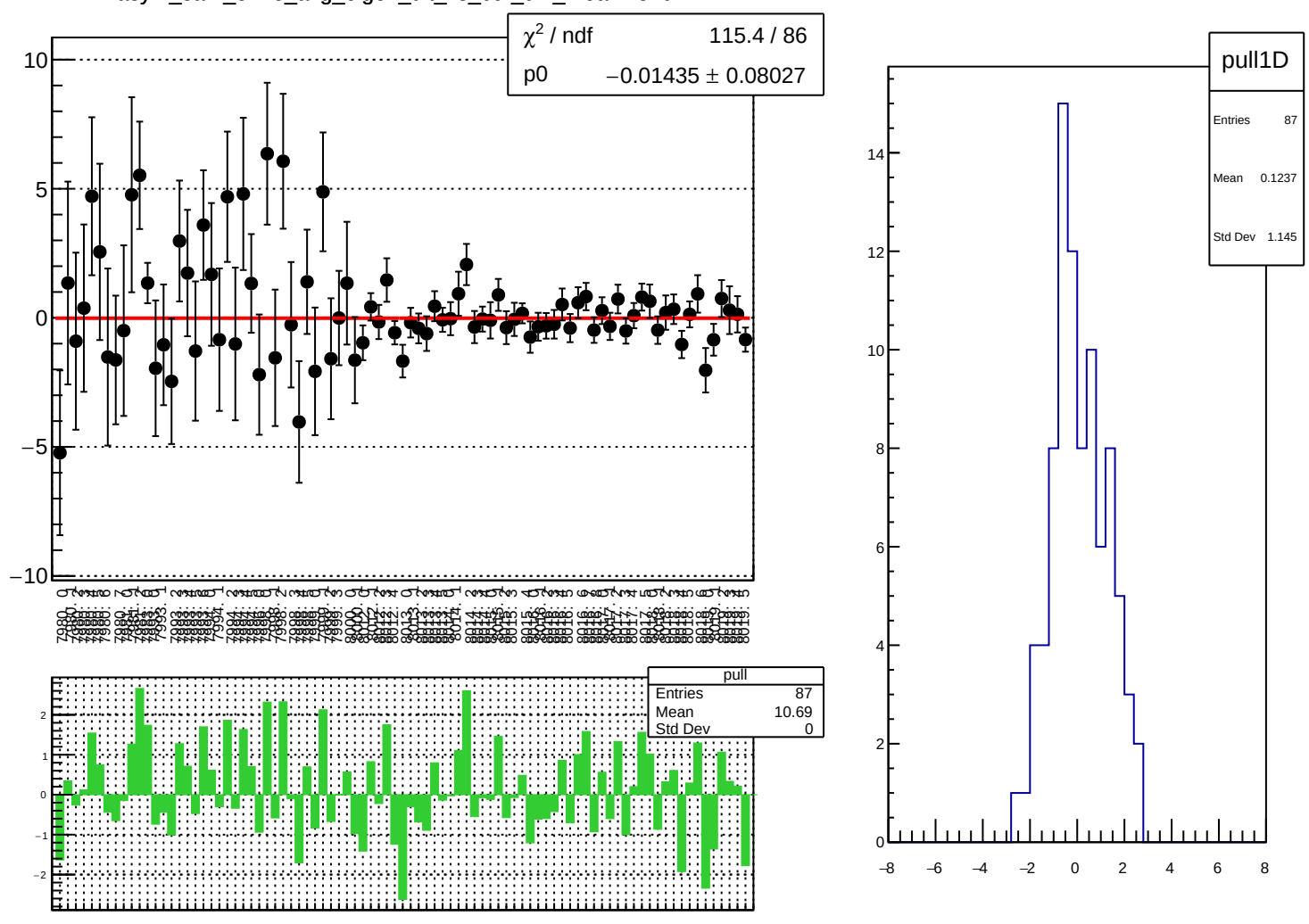

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.4 / 86
p0 −0.01434 ± 0.08028
pull
Entries 87
Mean 10.69
Std Dev 0
pull1D
Entries 87
Mean 0.1237
Std Dev 1.145

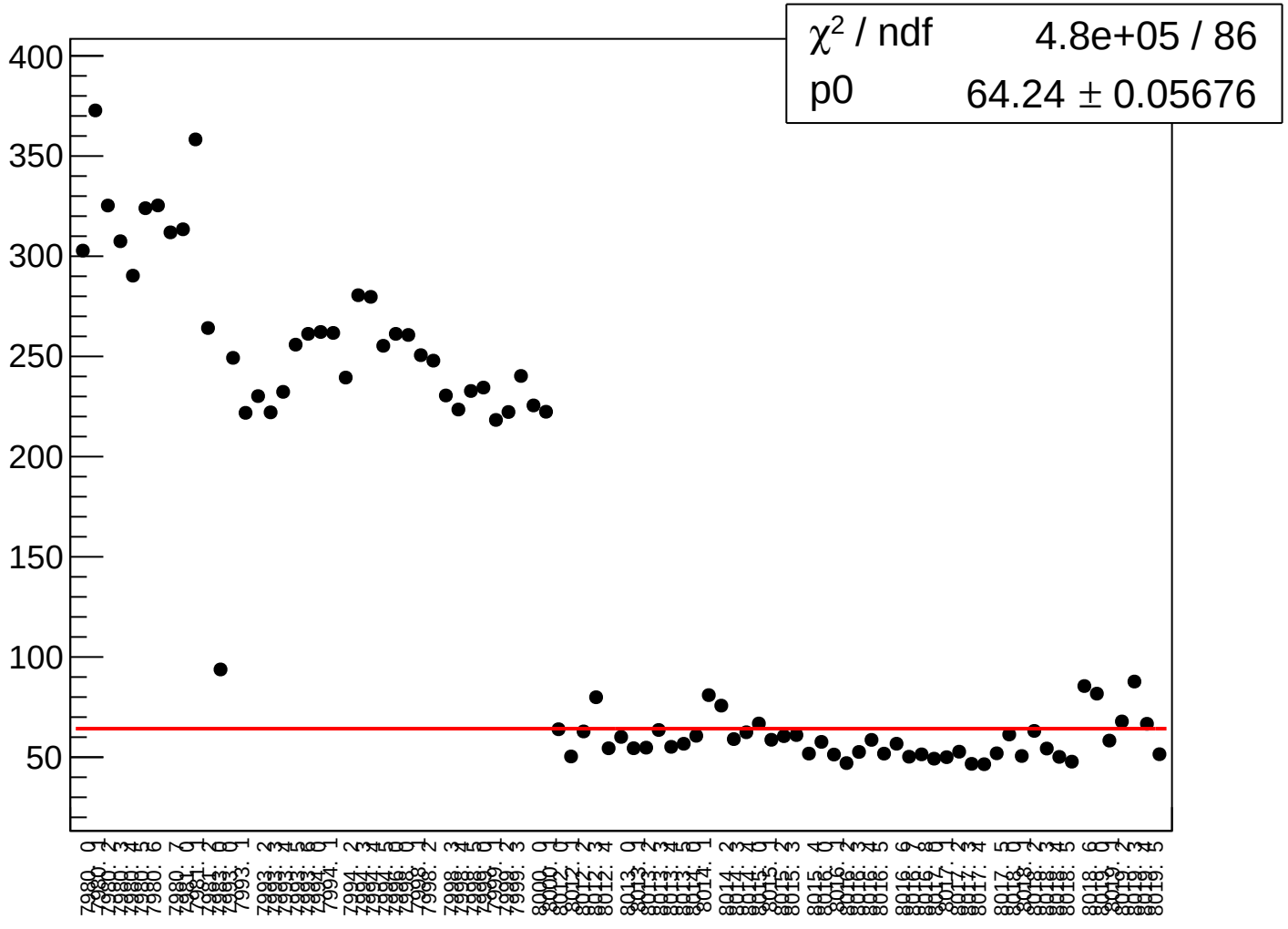

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.8e+05 / 86
p0 64.24 ± 0.05676
400
350
300
250
200
150
100
50

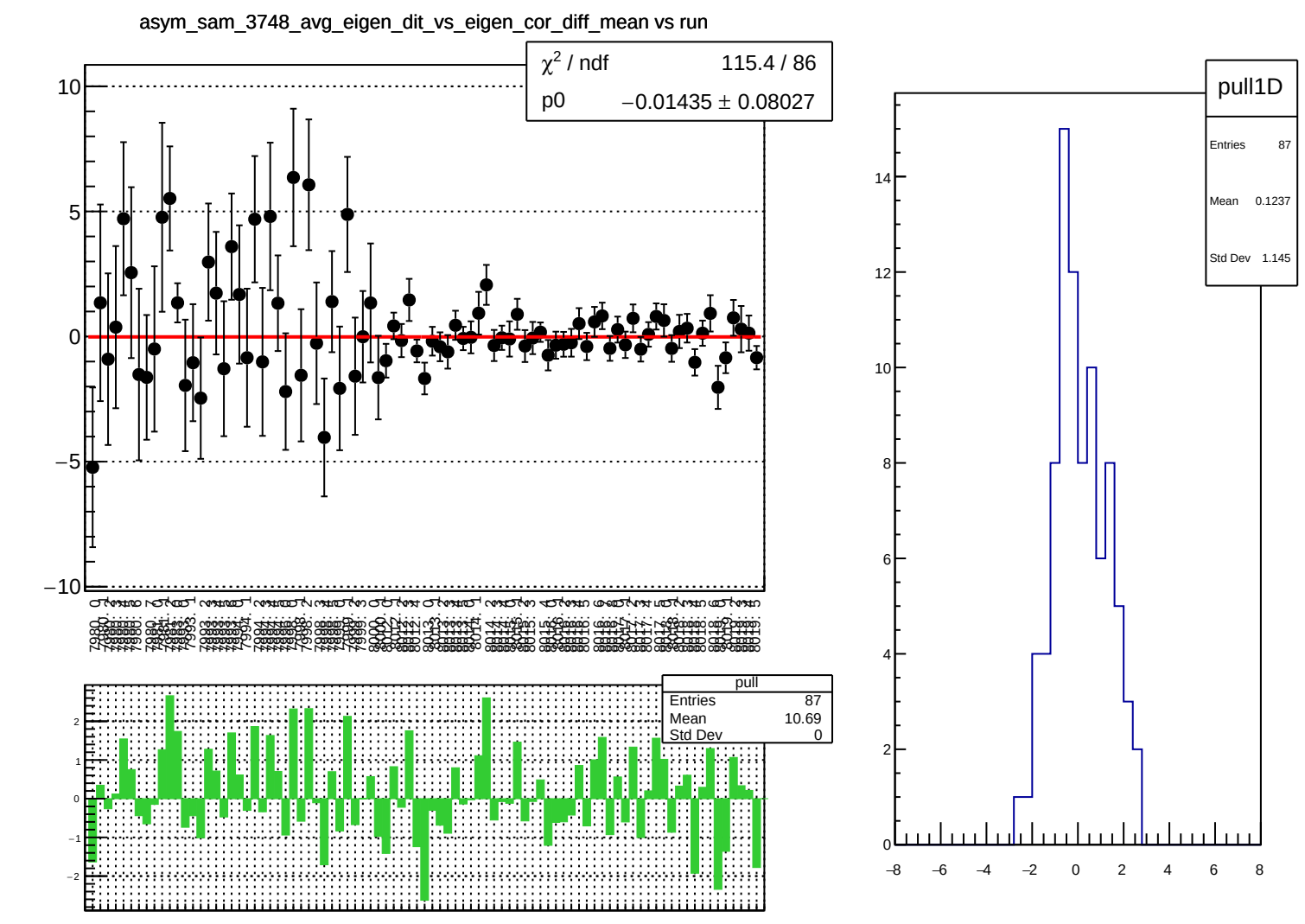

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 114.5 / 86
p0 −1.715e−06 ± 3.792e−06
pull
Entries 87
Mean −101.9
Std Dev 0

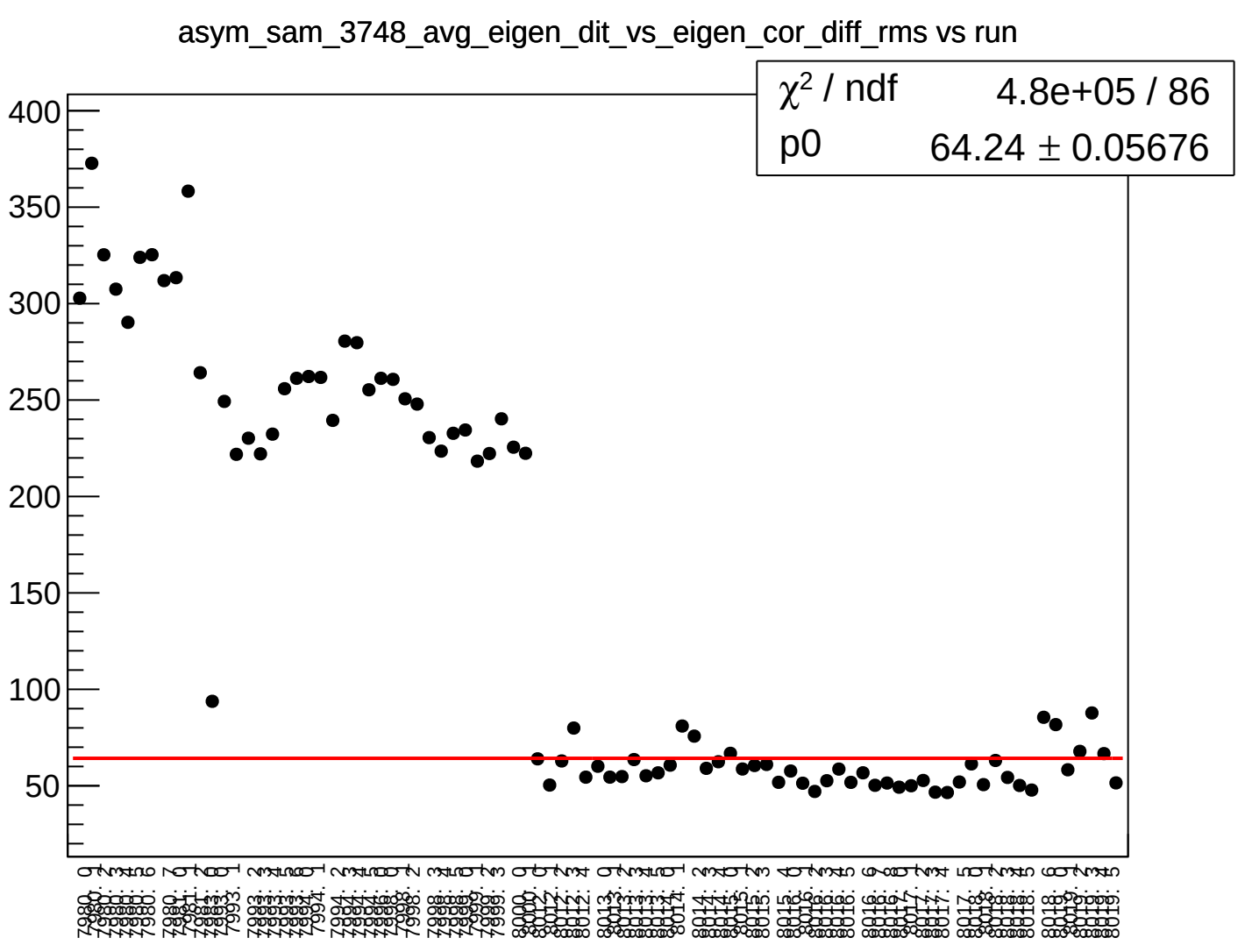

pull1D
Entries 87
Mean 0.02089
Std Dev 1.147

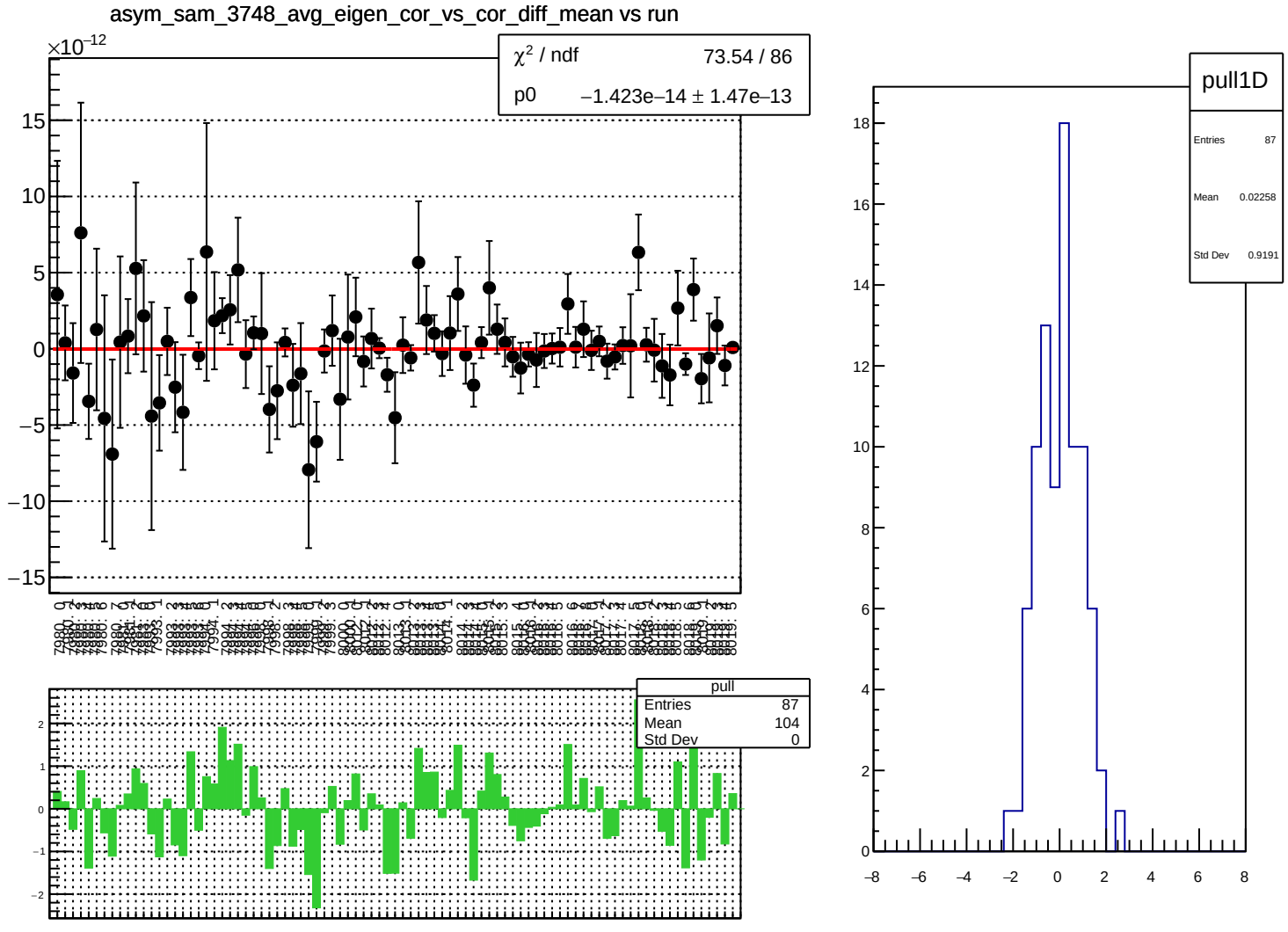

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.959e+05 / 86
p0 0.003354 ± 2.681e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

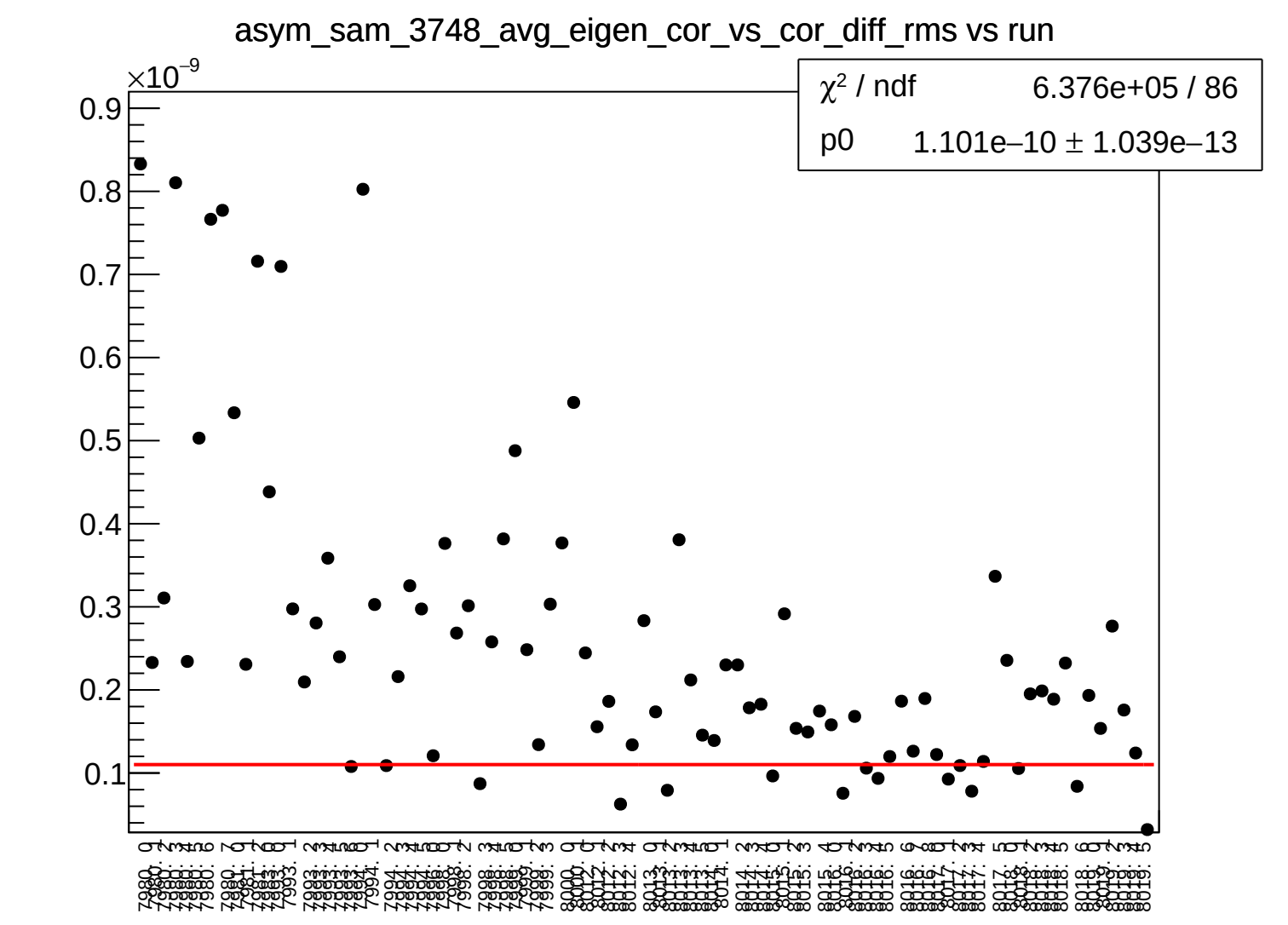

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.4 / 86
p0 −0.01435 ± 0.08027
pull
Entries 87
Mean 10.69
Std Dev 0
pull1D
Entries 87
Mean 0.1237
Std Dev 1.145

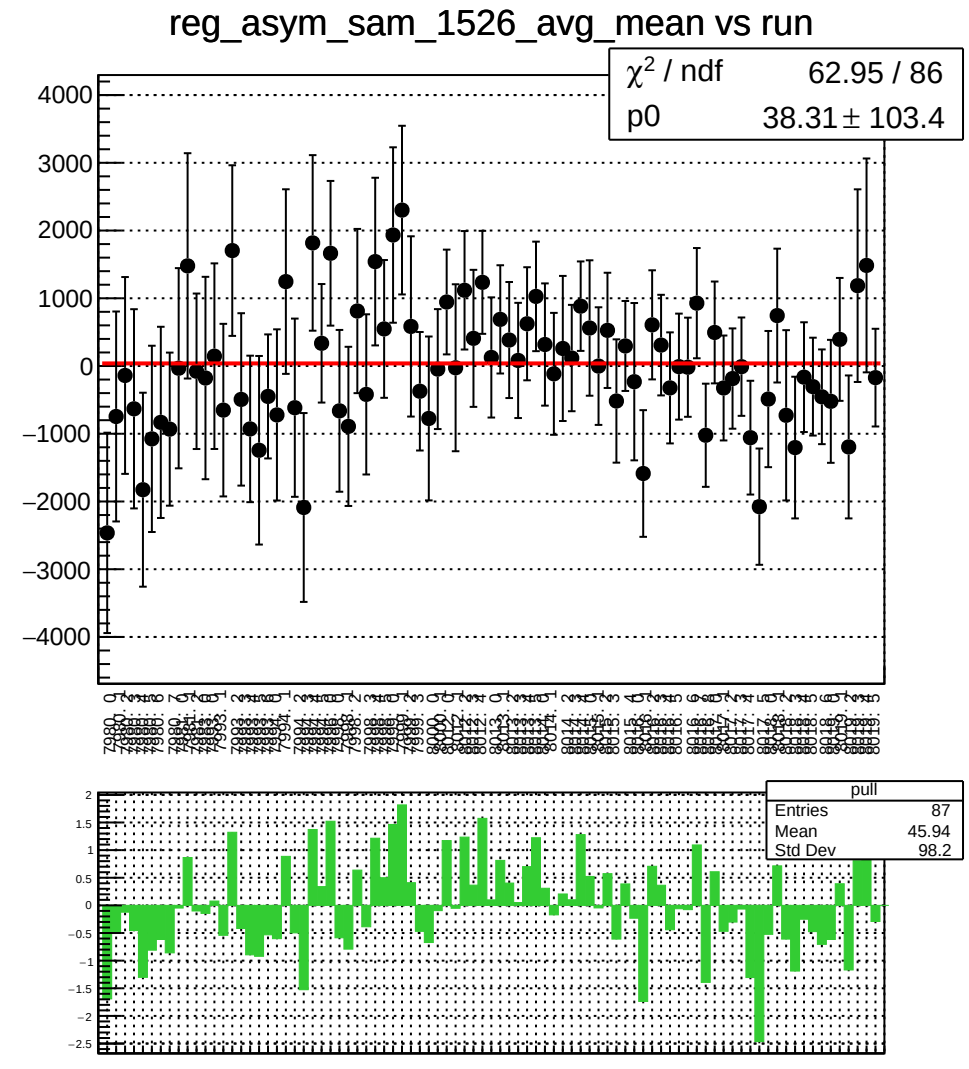

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.8e+05 / 86
p0 64.24 ± 0.05676
400
350
300
250
200
150
100
50

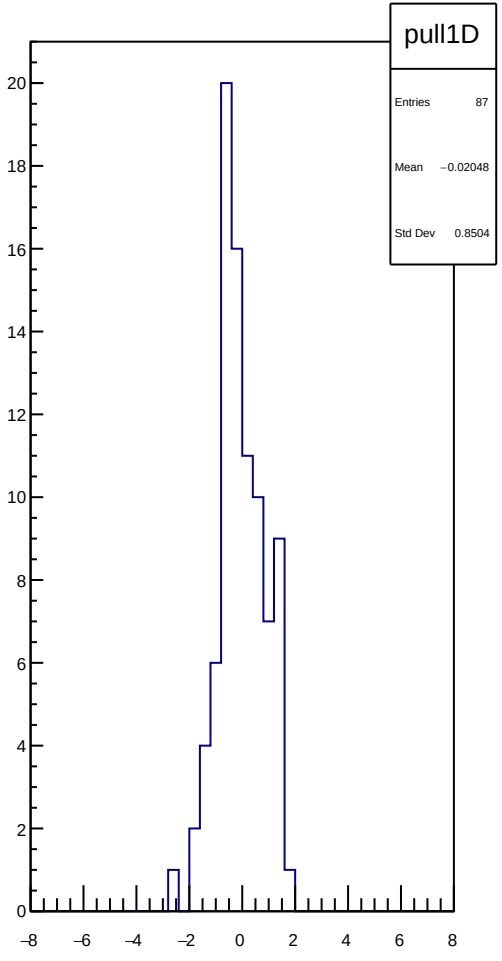

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.4 / 86
p0 −0.01435 ± 0.08027
pull
Entries 87
Mean 10.69
Std Dev 0
pull1D
Entries 87
Mean 0.1237
Std Dev 1.145

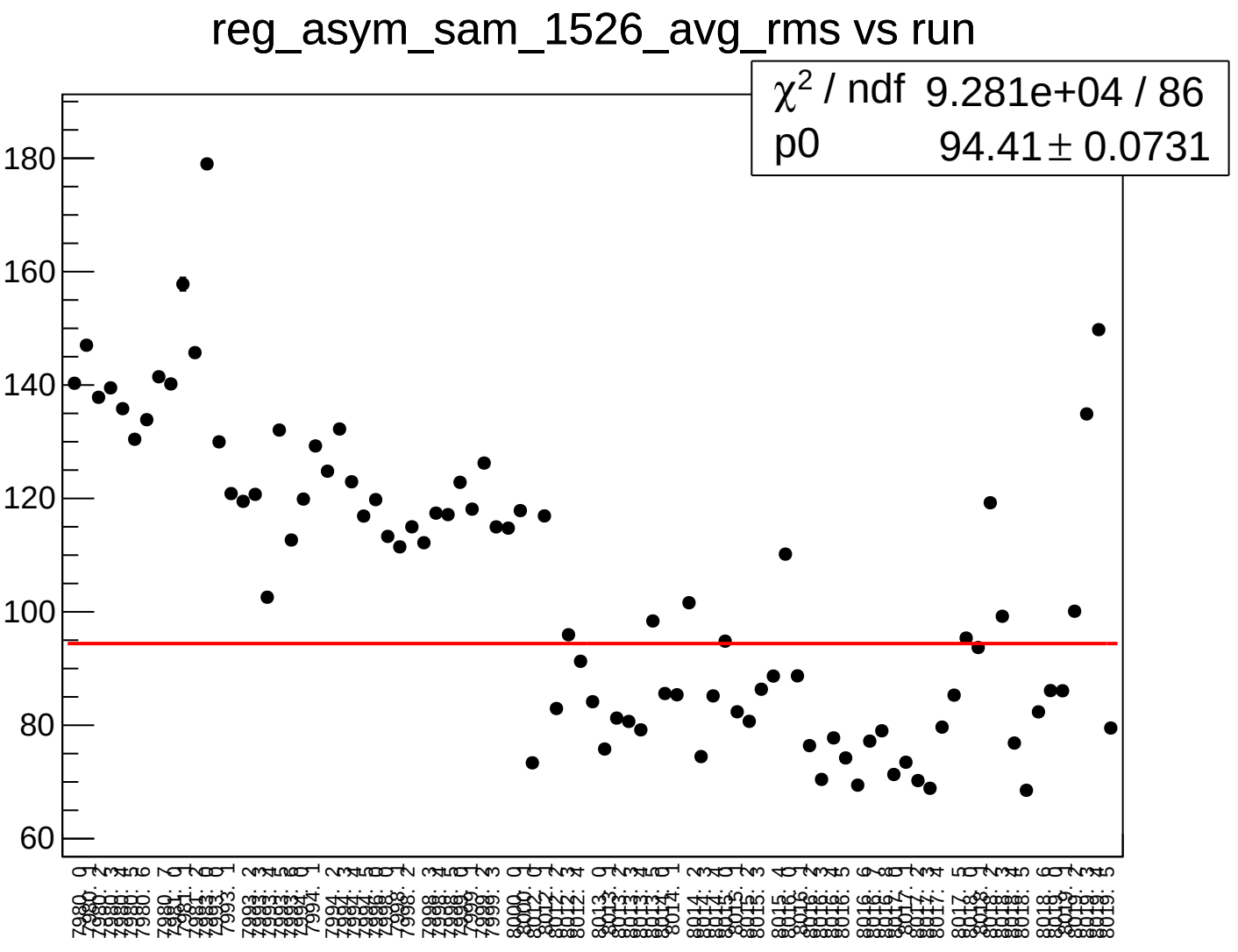

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.8e+05 / 86
p0 64.24 ± 0.05676
400
350
300
250
200
150
100
50

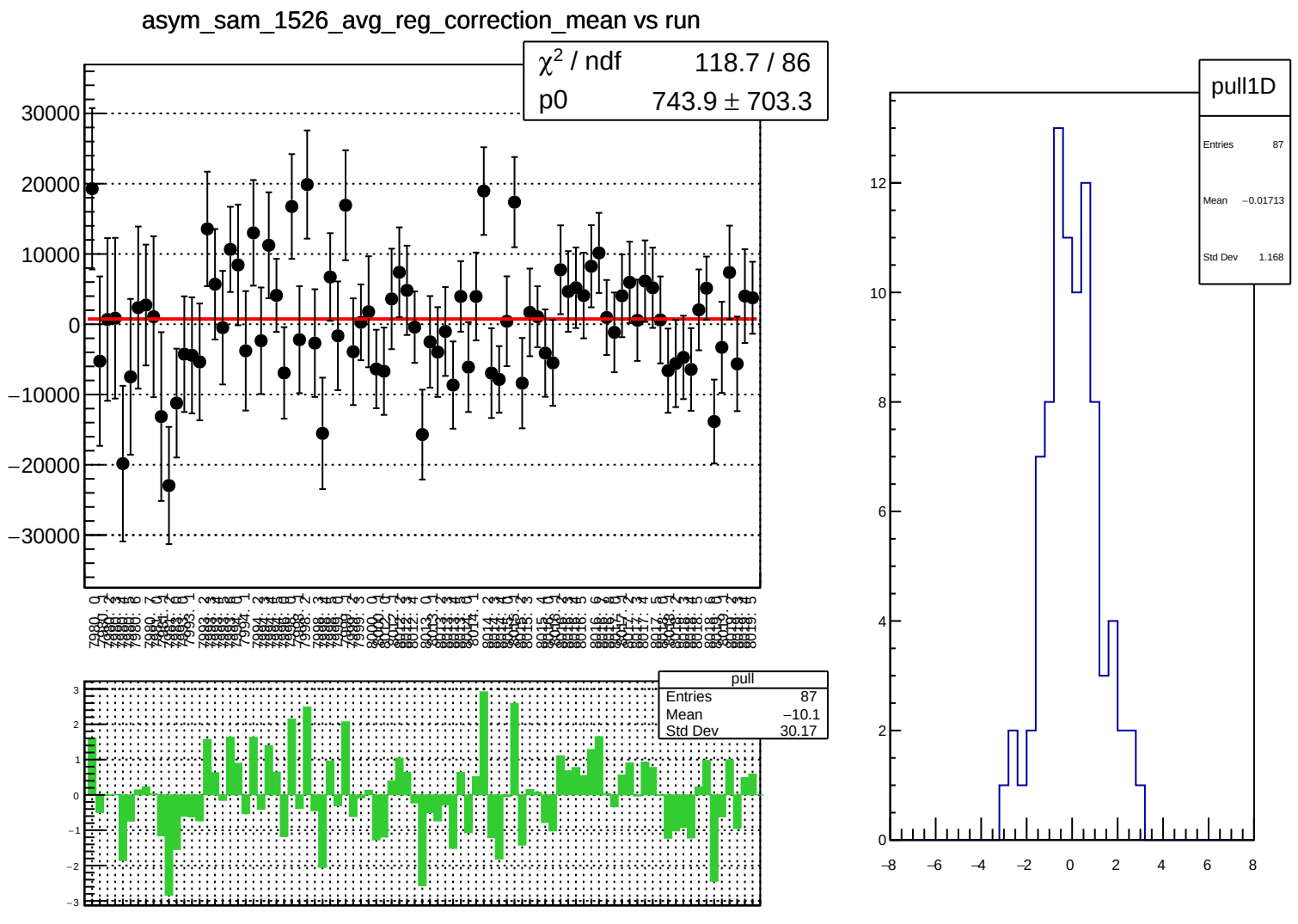

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.54 / 86
p0 −1.423e−14 ± 1.47e−13
pull
Entries 87
Mean 104
Std Dev 0
pull1D
Entries 87
Mean 0.02258
Std Dev 0.9191

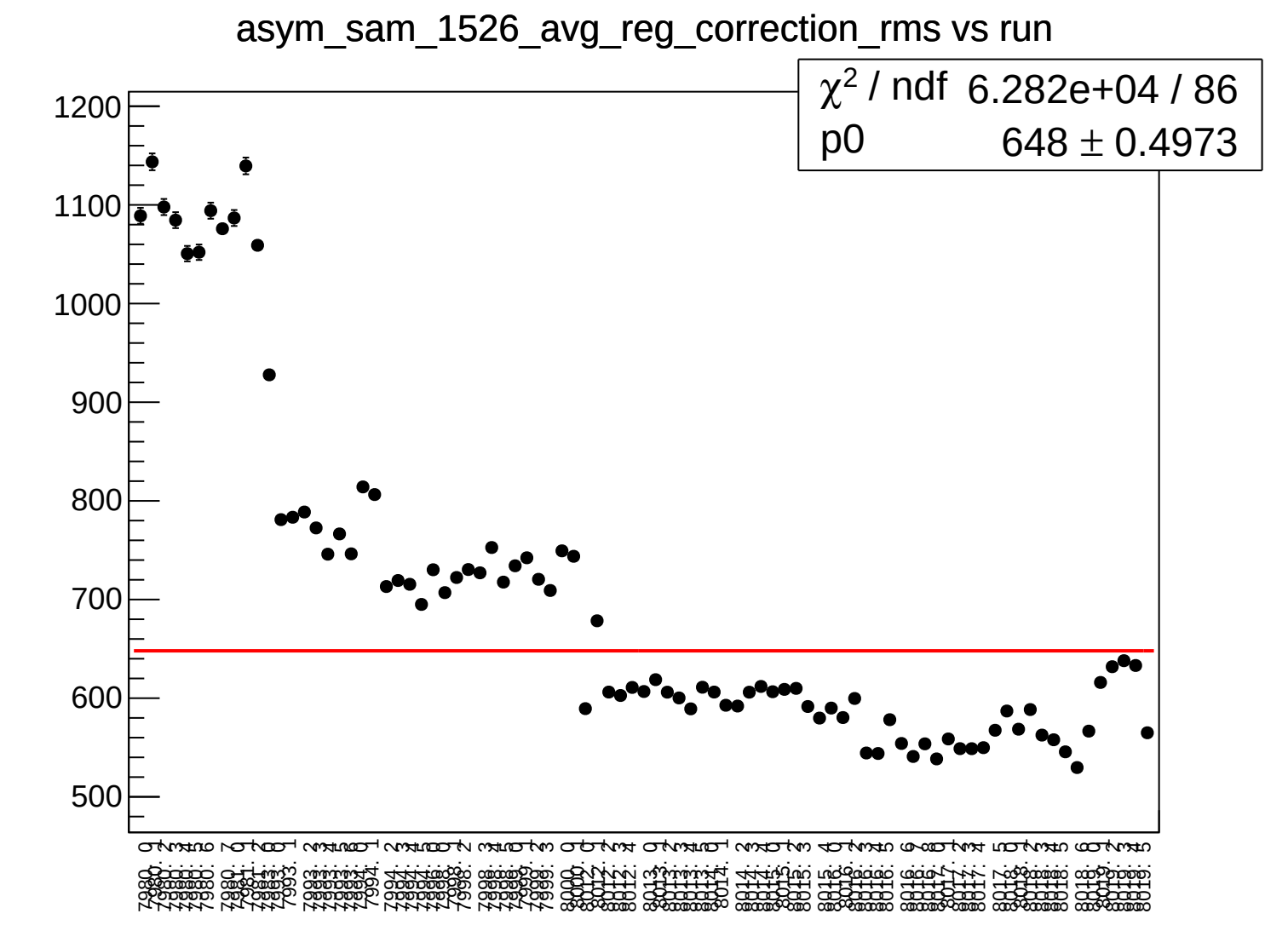

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.376e+05 / 86
p0 1.101e−10 ± 1.039e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

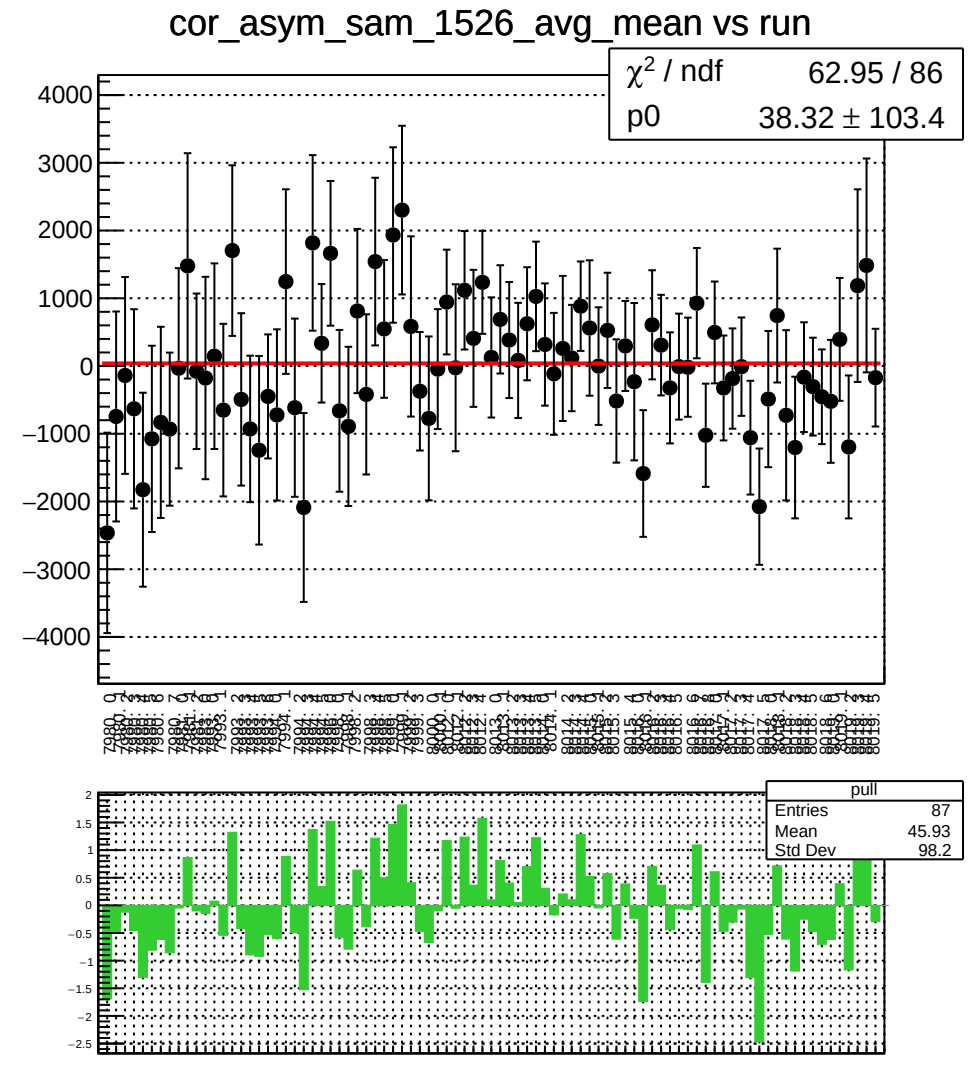

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 62.95 / 86
p0 38.31 ± 103.4
pull
Entries 87
Mean 45.94
Std Dev 98.2

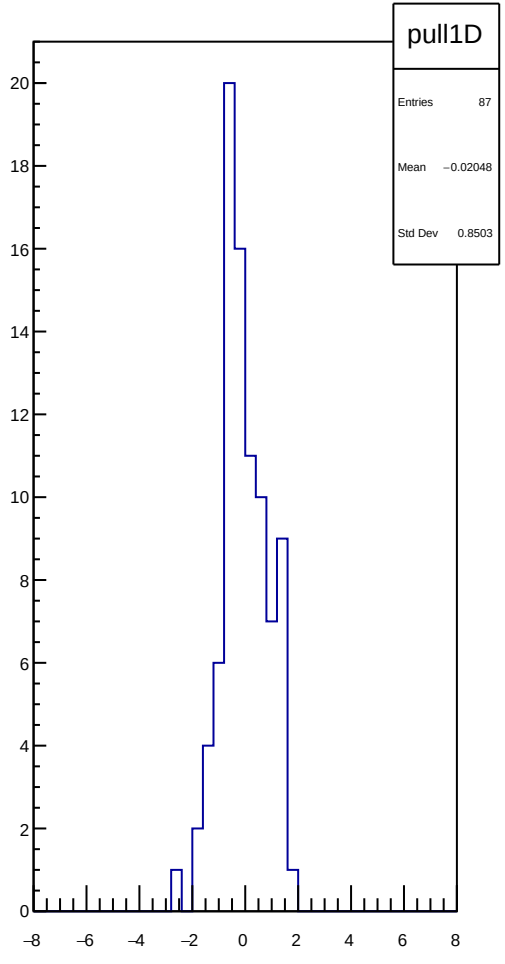

pull1D
Entries 87
Mean −0.02048
Std Dev 0.8504

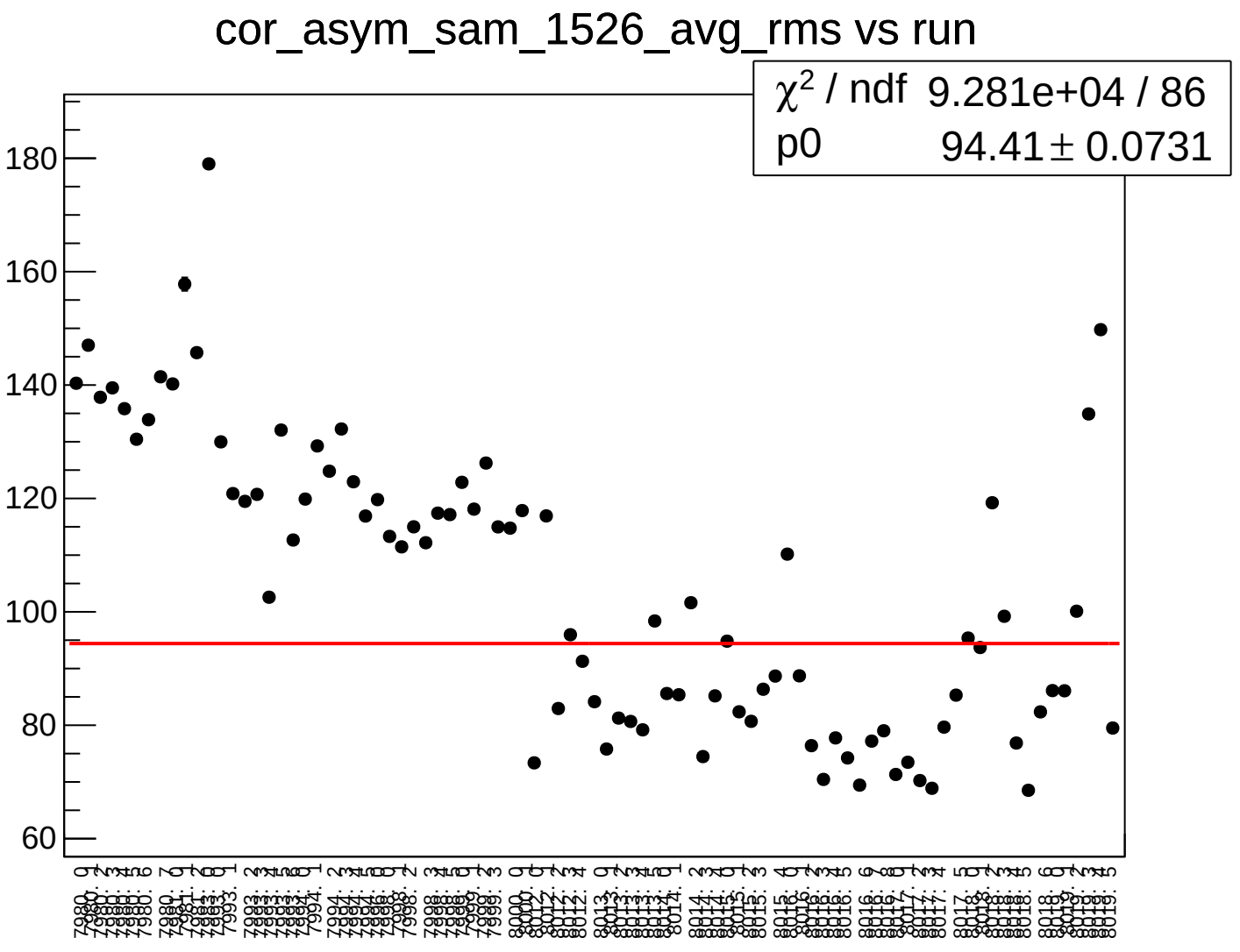

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 9.281e+04 / 86
p0 94.41 ± 0.0731
180
160
140
120
100
80
60

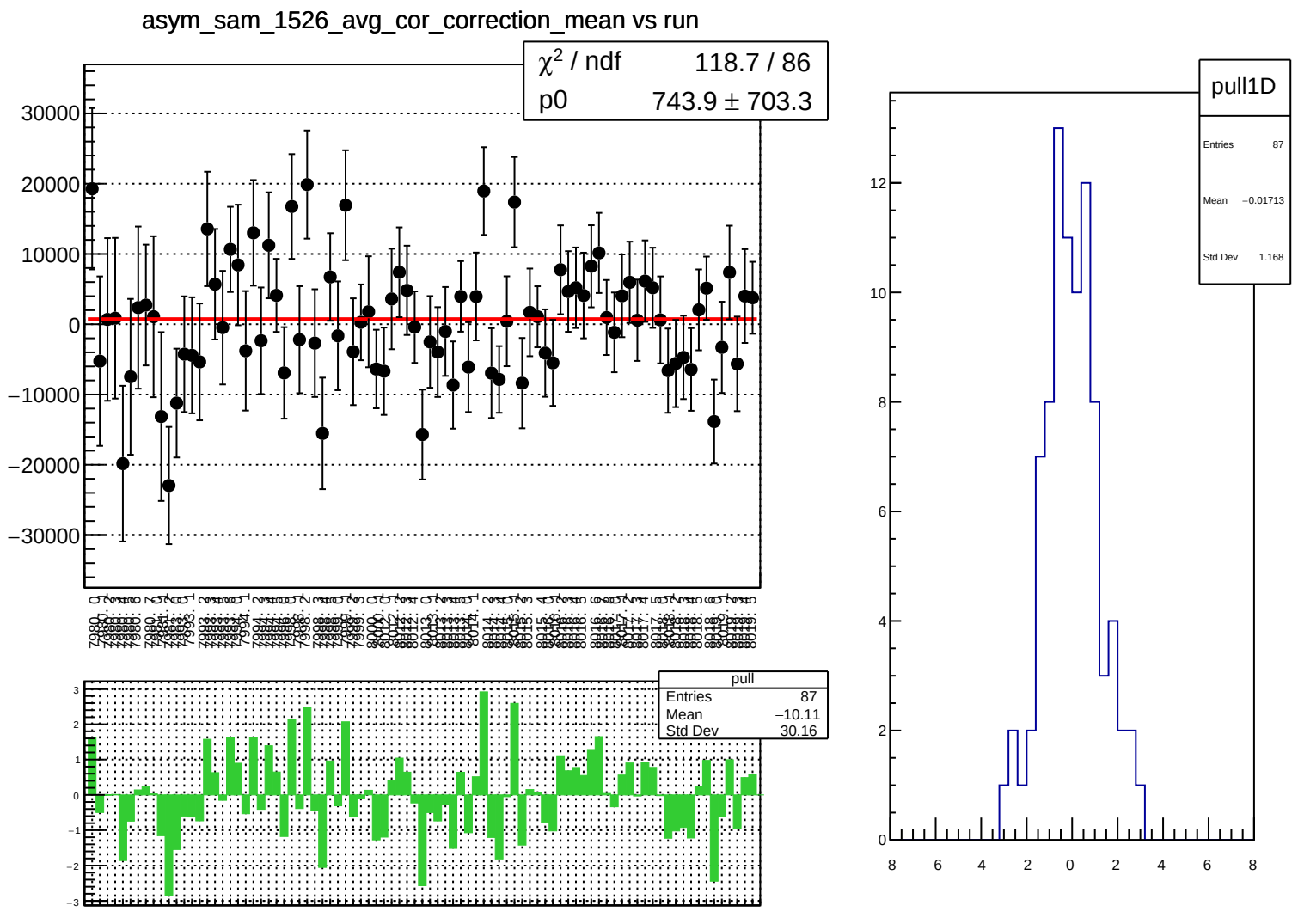

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 118.7 / 86
p0 743.9 ± 703.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −10.1
Std Dev 30.17
pull1D
Entries 87
Mean −0.01713
Std Dev 1.168

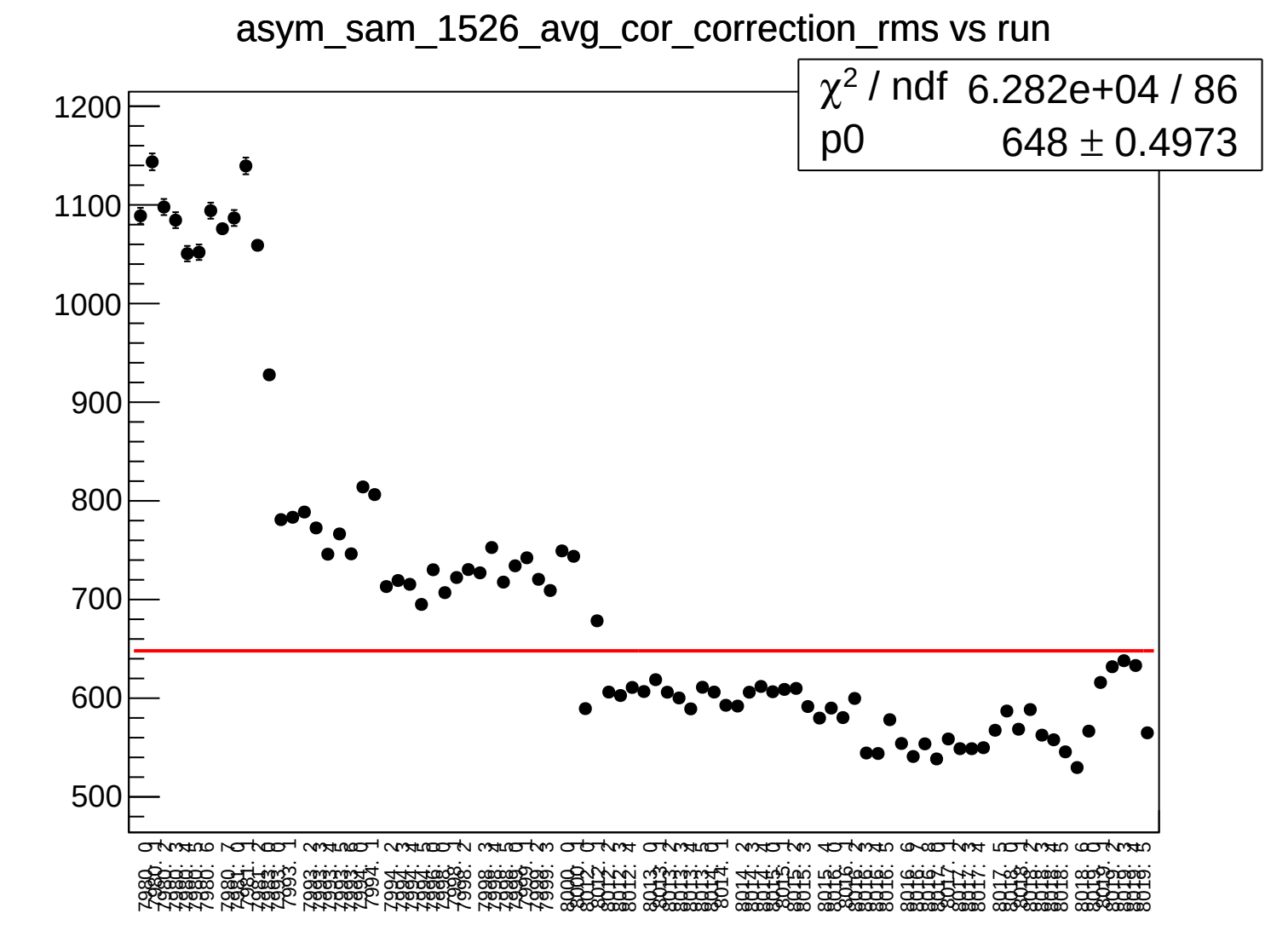

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 6.282e+04 / 86
p0 648 ± 0.4973
1200
1100
1000
900
800
700
600
500

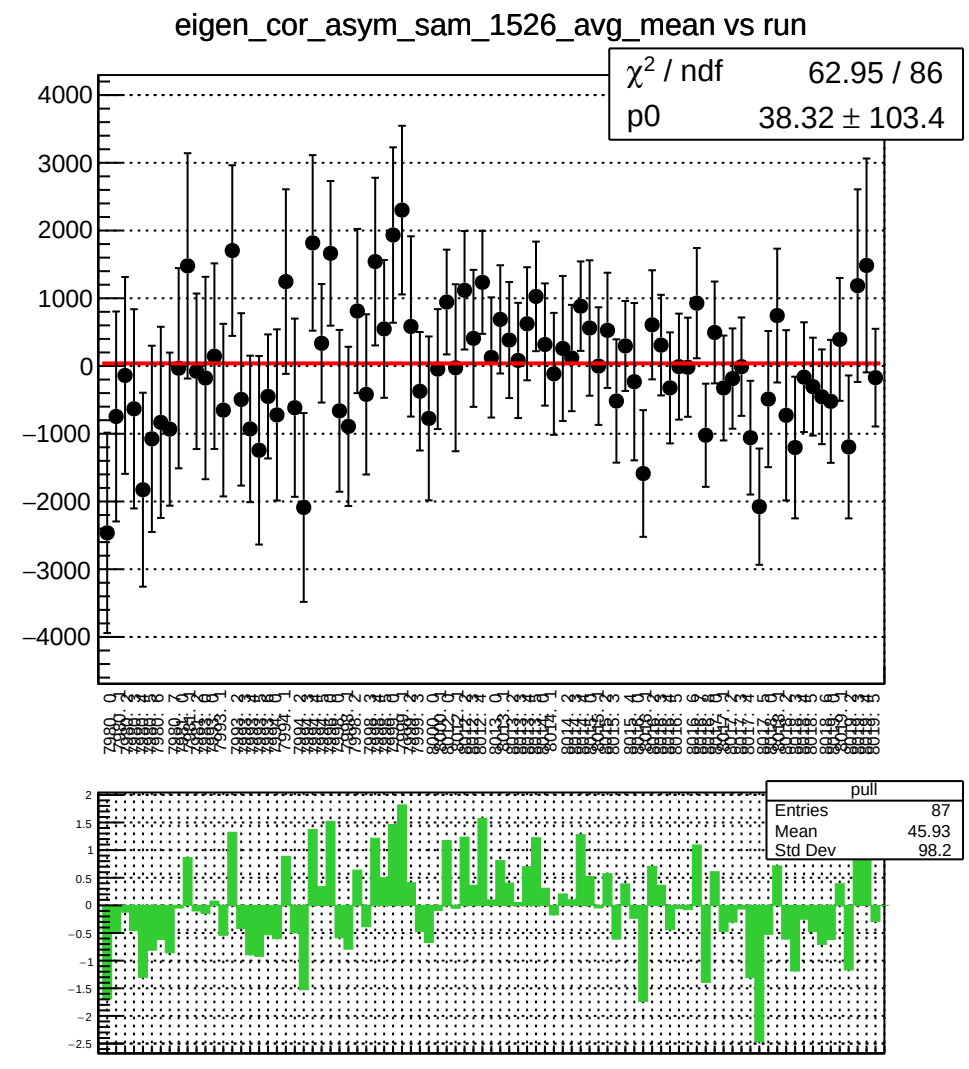

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 62.95 / 86
p0 38.32 ± 103.4
pull
Entries 87
Mean 45.93
Std Dev 98.2

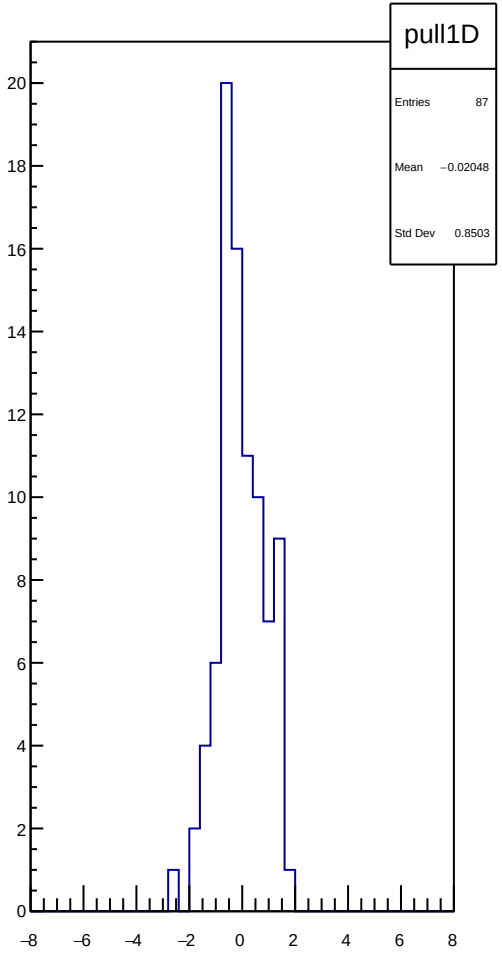

pull1D
Entries 87
Mean −0.02048
Std Dev 0.8503

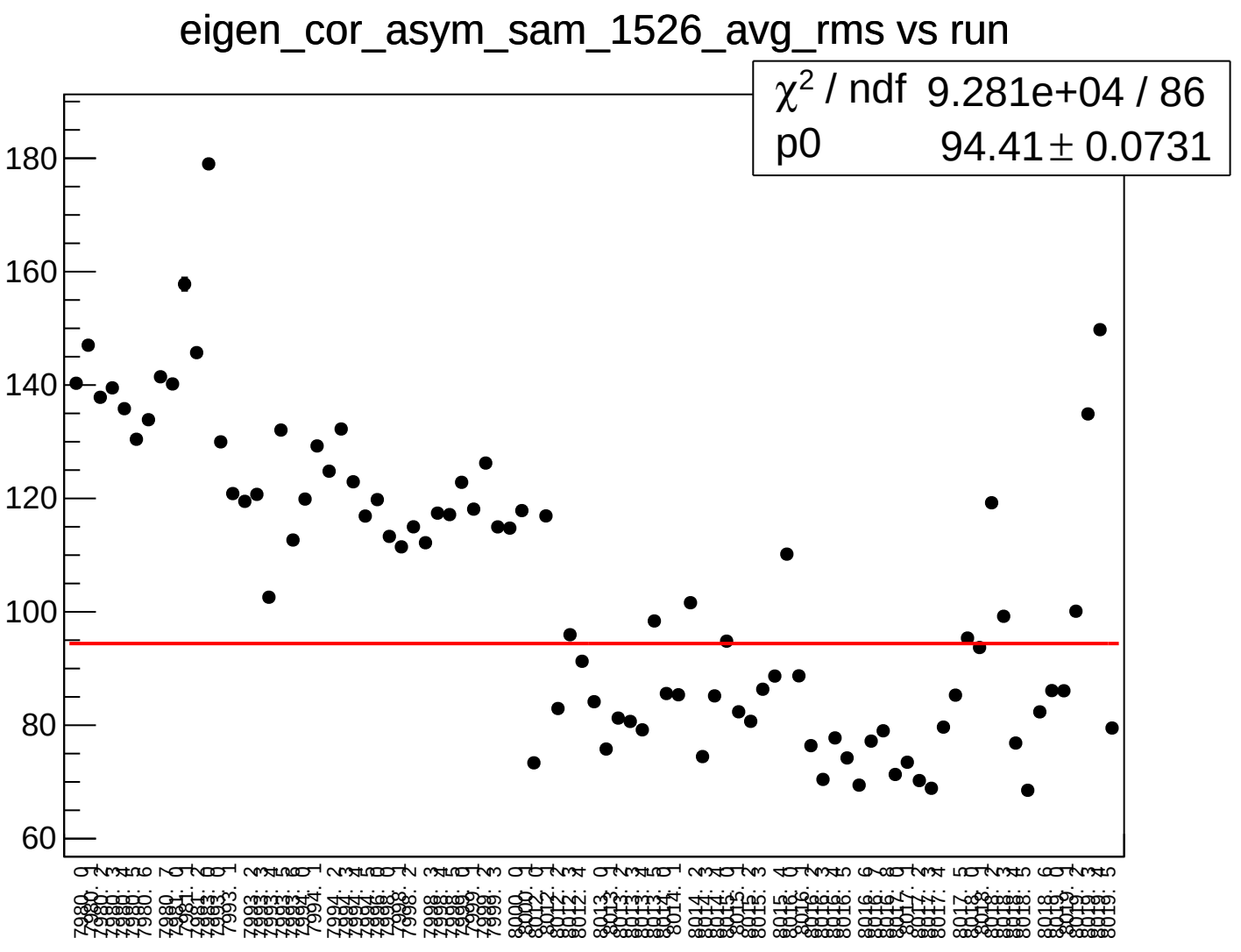

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 9.281e+04 / 86
p0 94.41 ± 0.0731
180
160
140
120
100
80
60

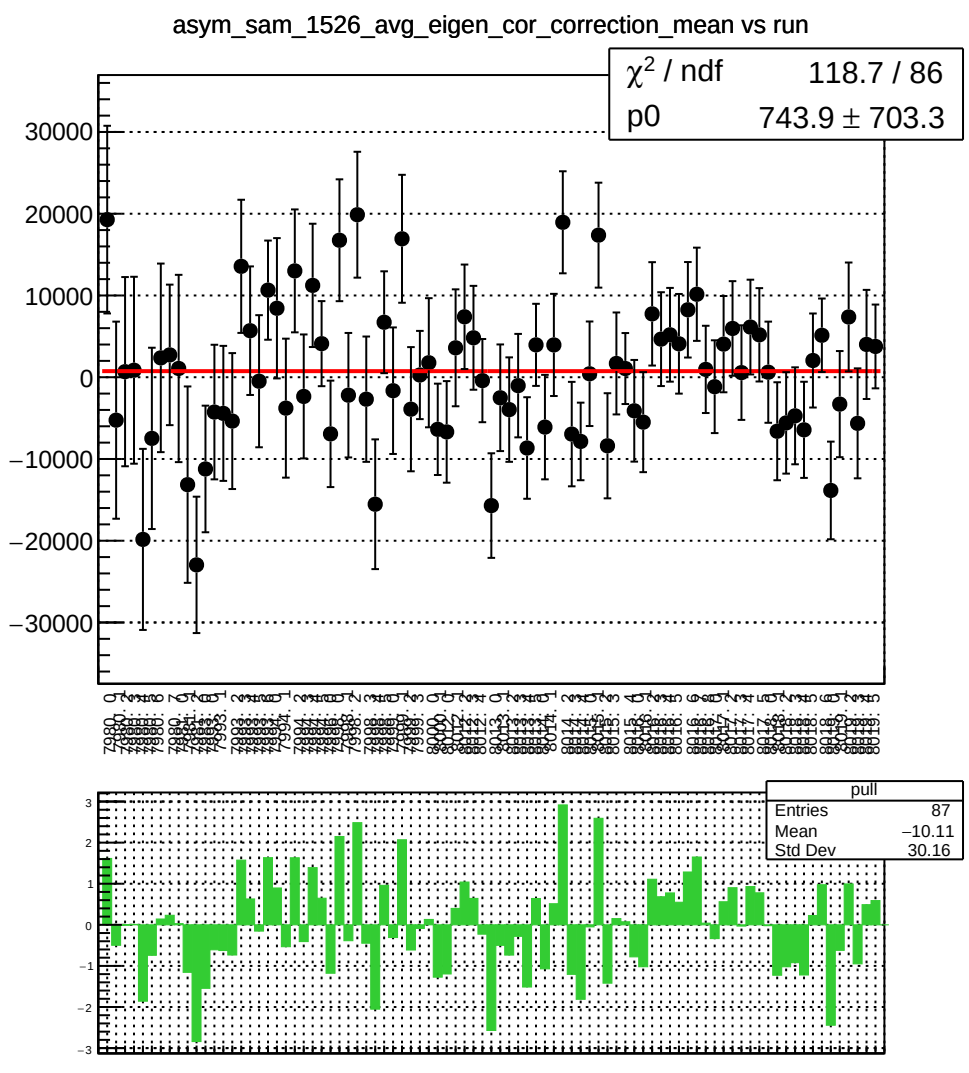

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 118.7 / 86
p0 743.9 ± 703.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −10.11
Std Dev 30.16
pull1D
Entries 87
Mean −0.01713
Std Dev 1.168

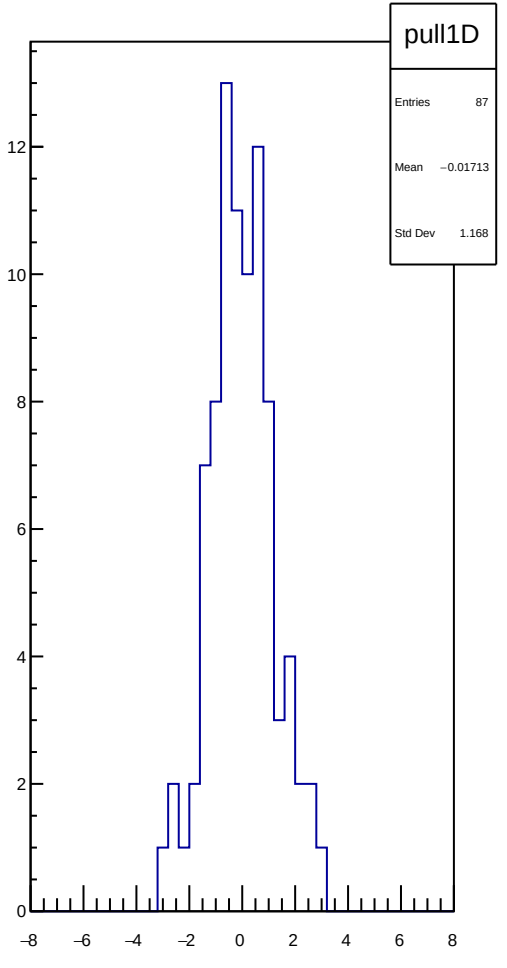

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 6.282e+04 / 86
p0 648 ± 0.4973
1200
1100
1000
900
800
700
600
500

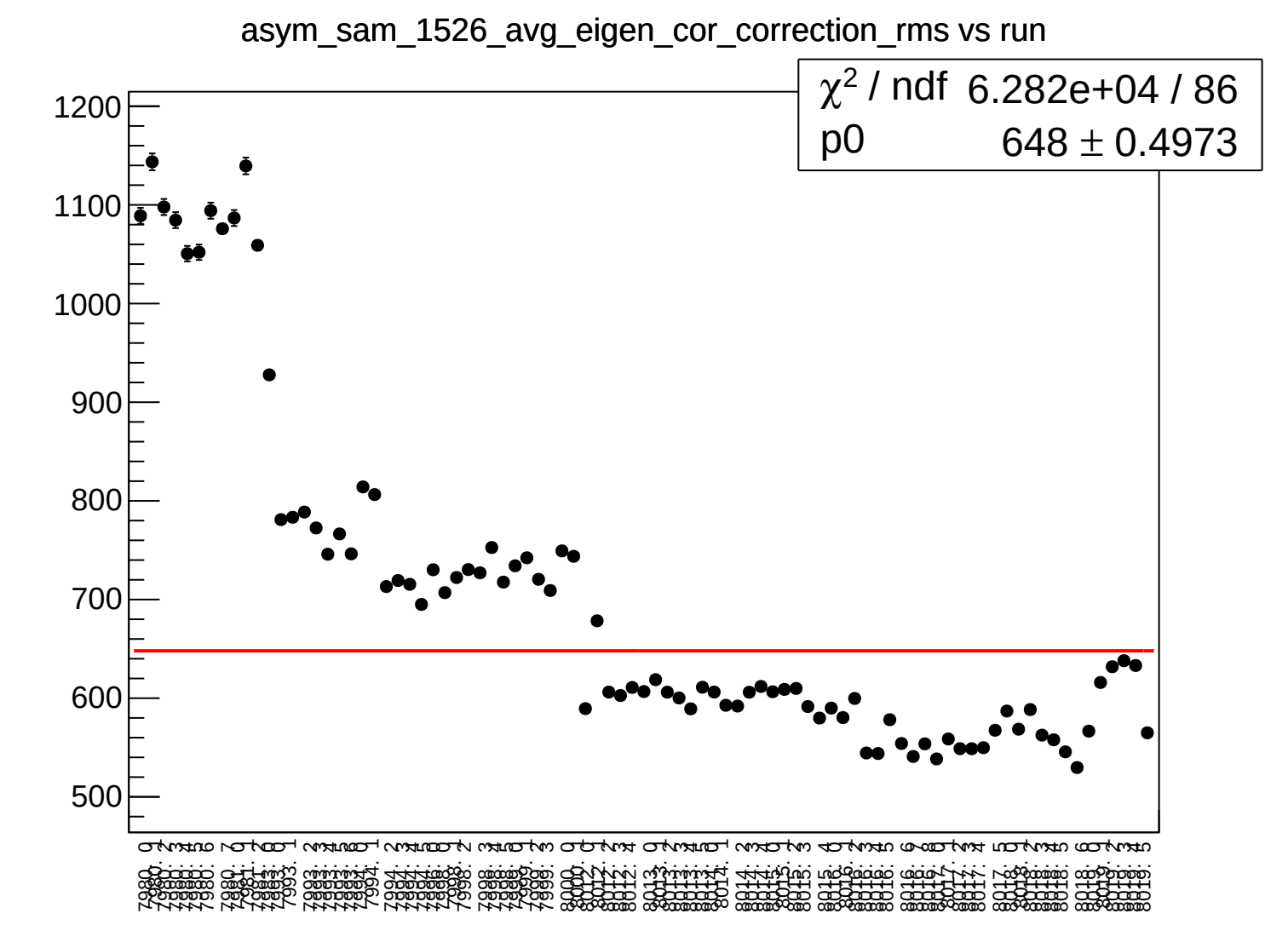

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 62.95 / 86
p0 38.32 ± 103.4
pull
Entries 87
Mean 45.93
Std Dev 98.2

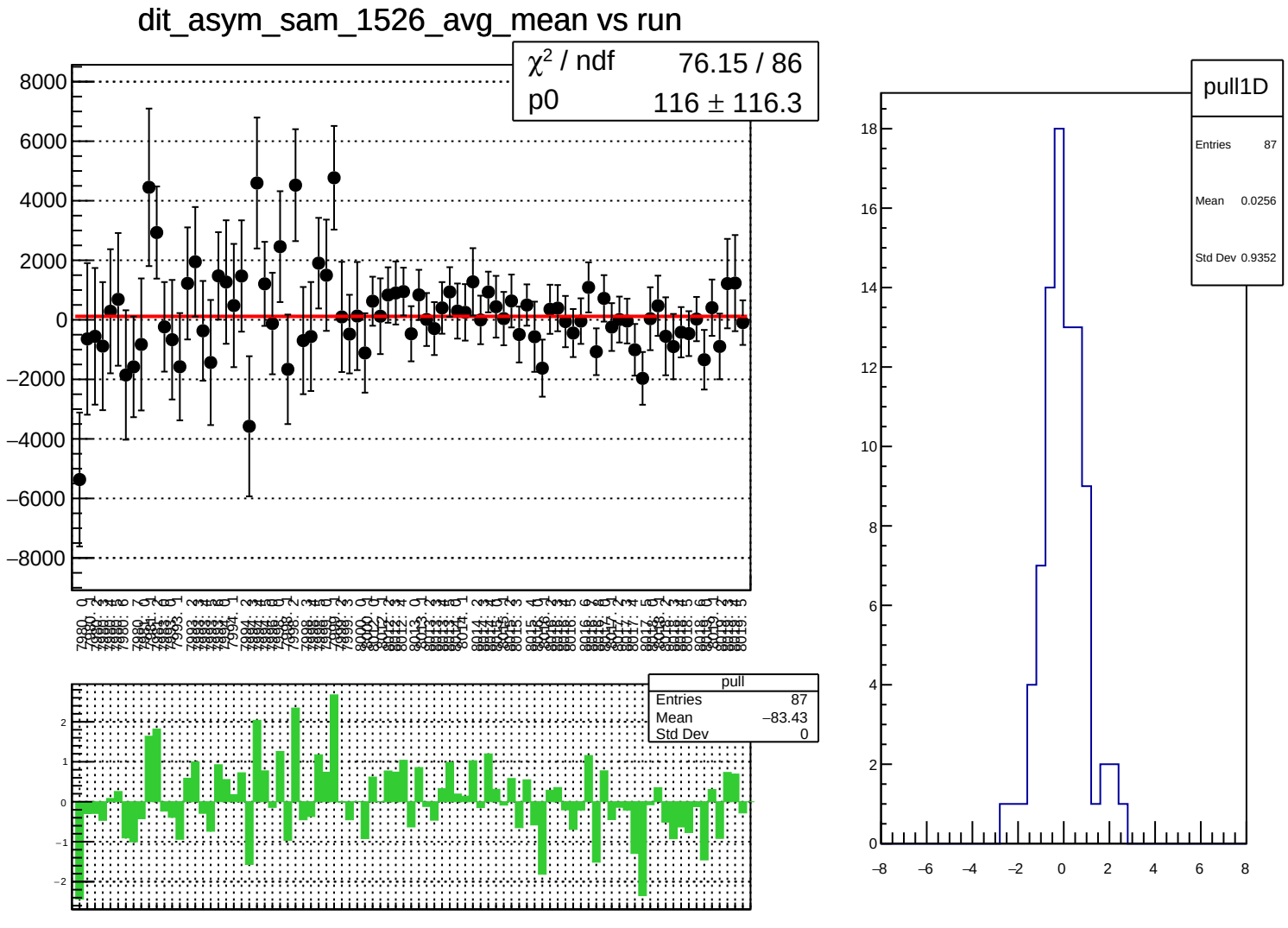

pull1D
Entries 87
Mean −0.02048
Std Dev 0.8503

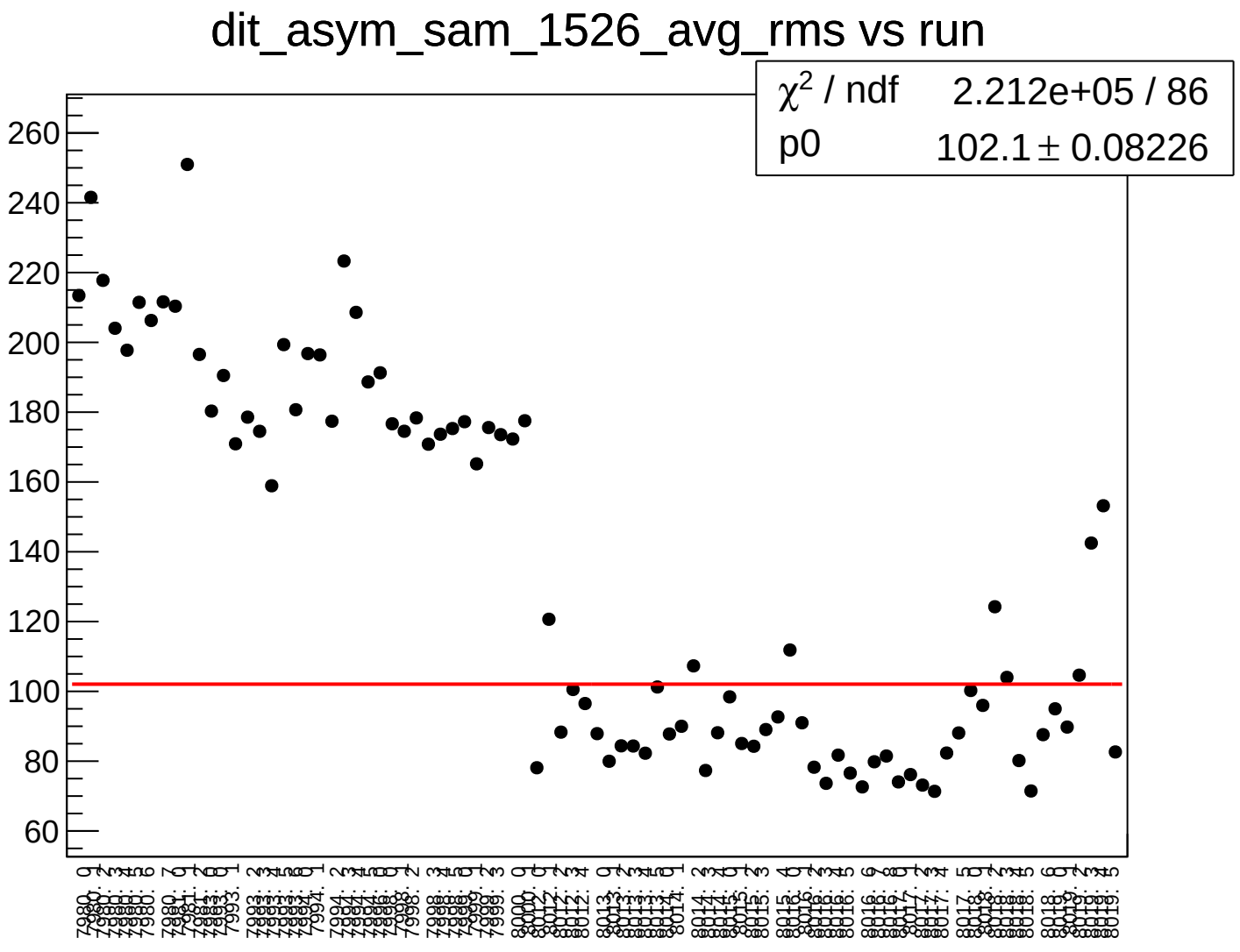

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 9.281e+04 / 86
p0 94.41 ± 0.0731
180
160
140
120
100
80
60

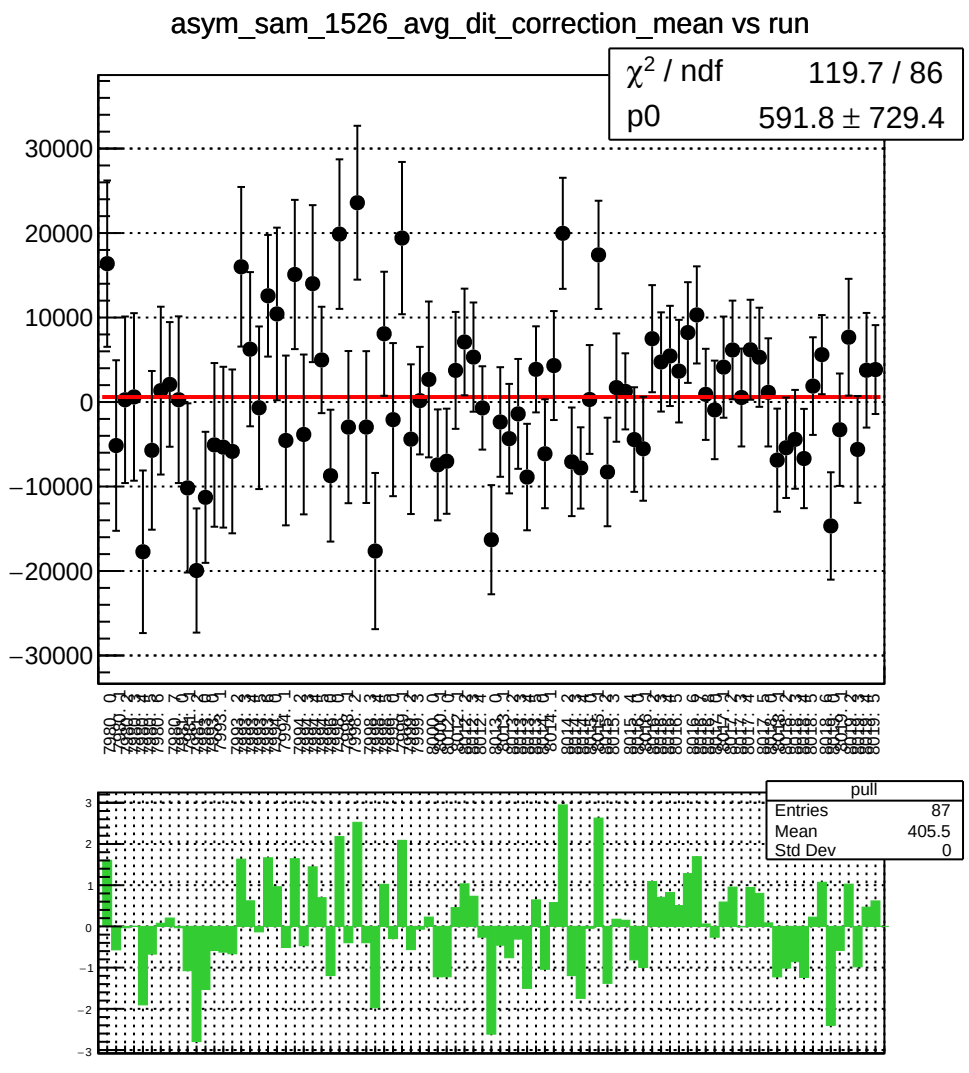

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 118.7 / 86
p0 743.9 ± 703.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −10.11
Std Dev 30.16
3
2
1
0
−1
−2
−3

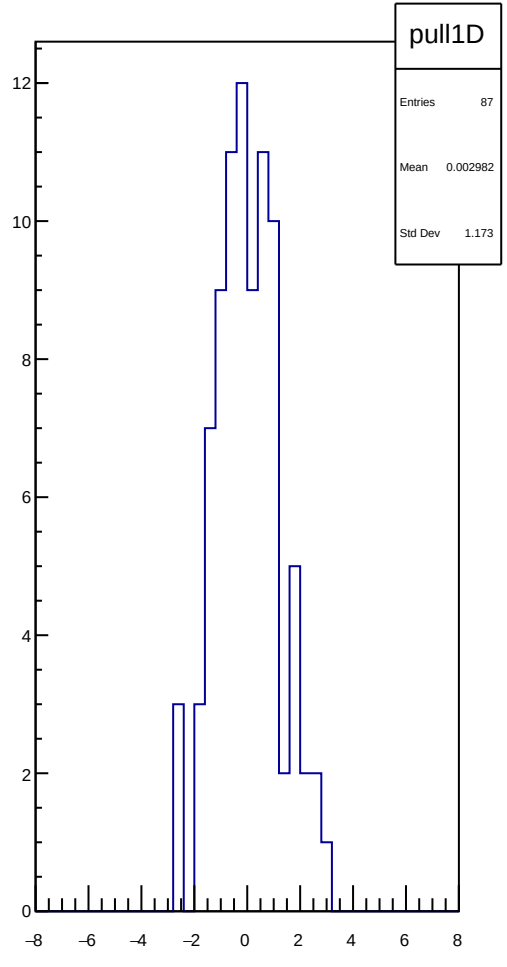

pull1D
Entries 87
Mean −0.01713
Std Dev 1.168
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

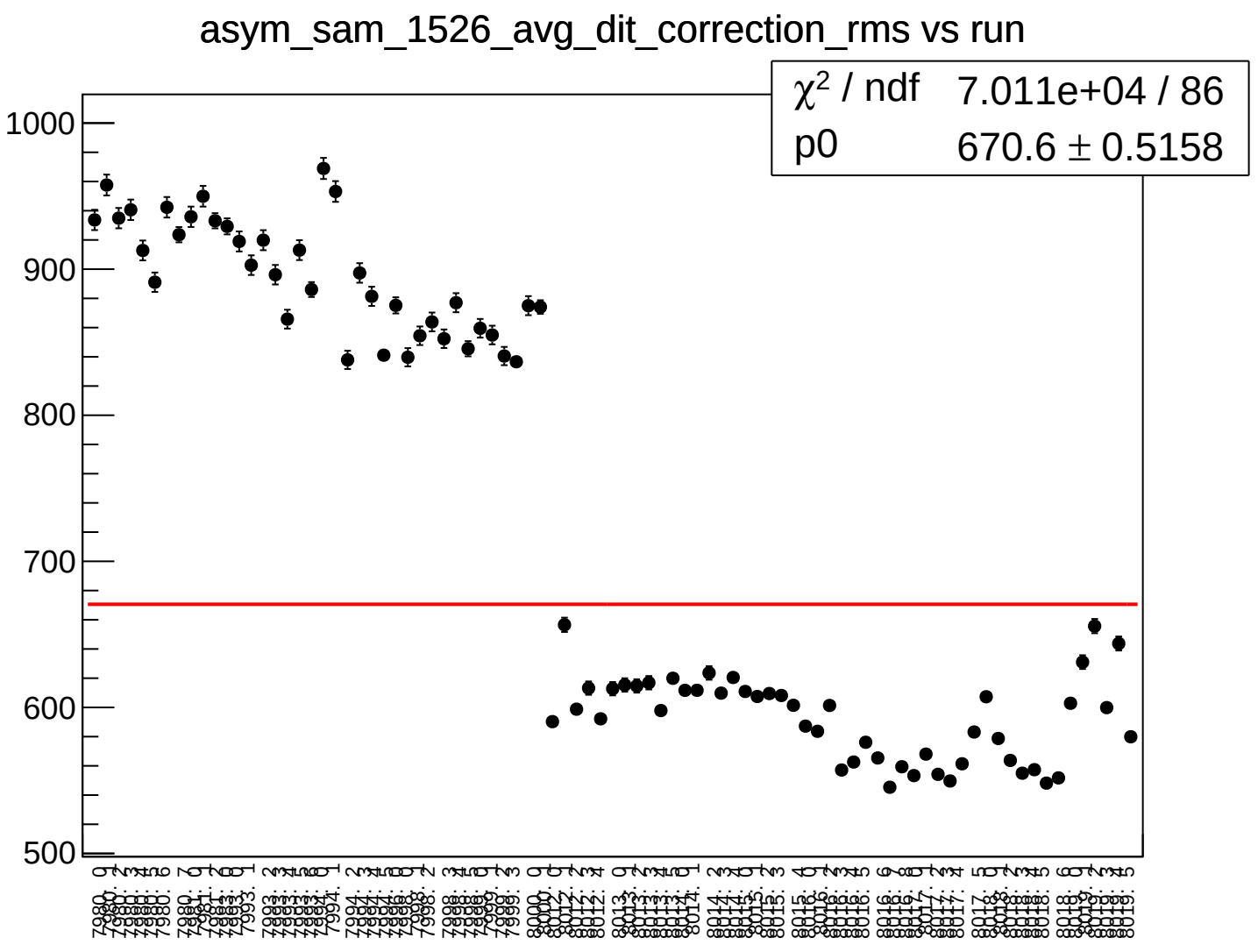

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.282e+04 / 86
p0 648 ± 0.4973
1200
1100
1000
900
800
700
600
500

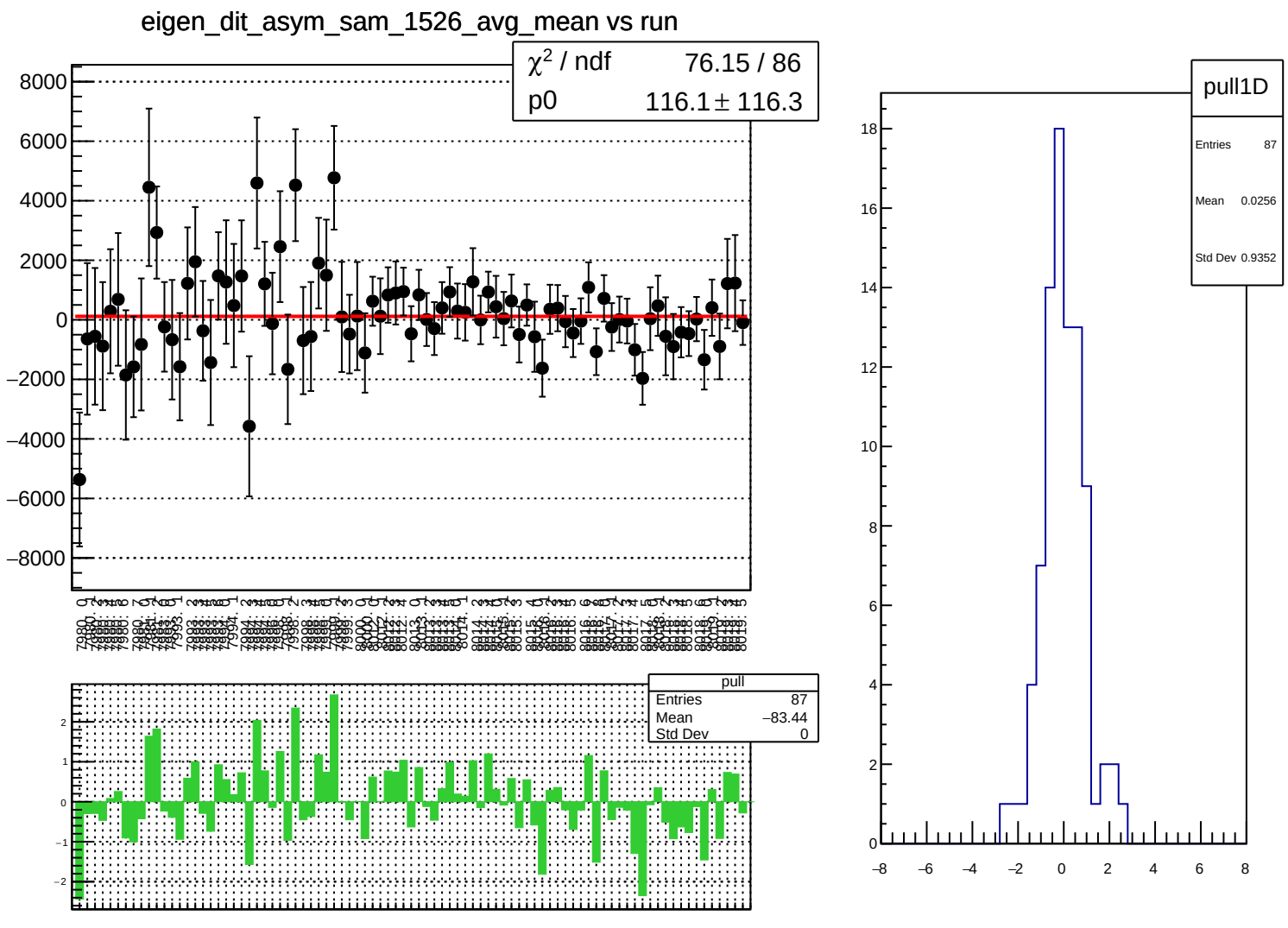

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 76.15 / 86
p0 116 ± 116.3
pull
Entries 87
Mean −83.43
Std Dev 0
pull1D
Entries 87
Mean 0.0256
Std Dev 0.9352

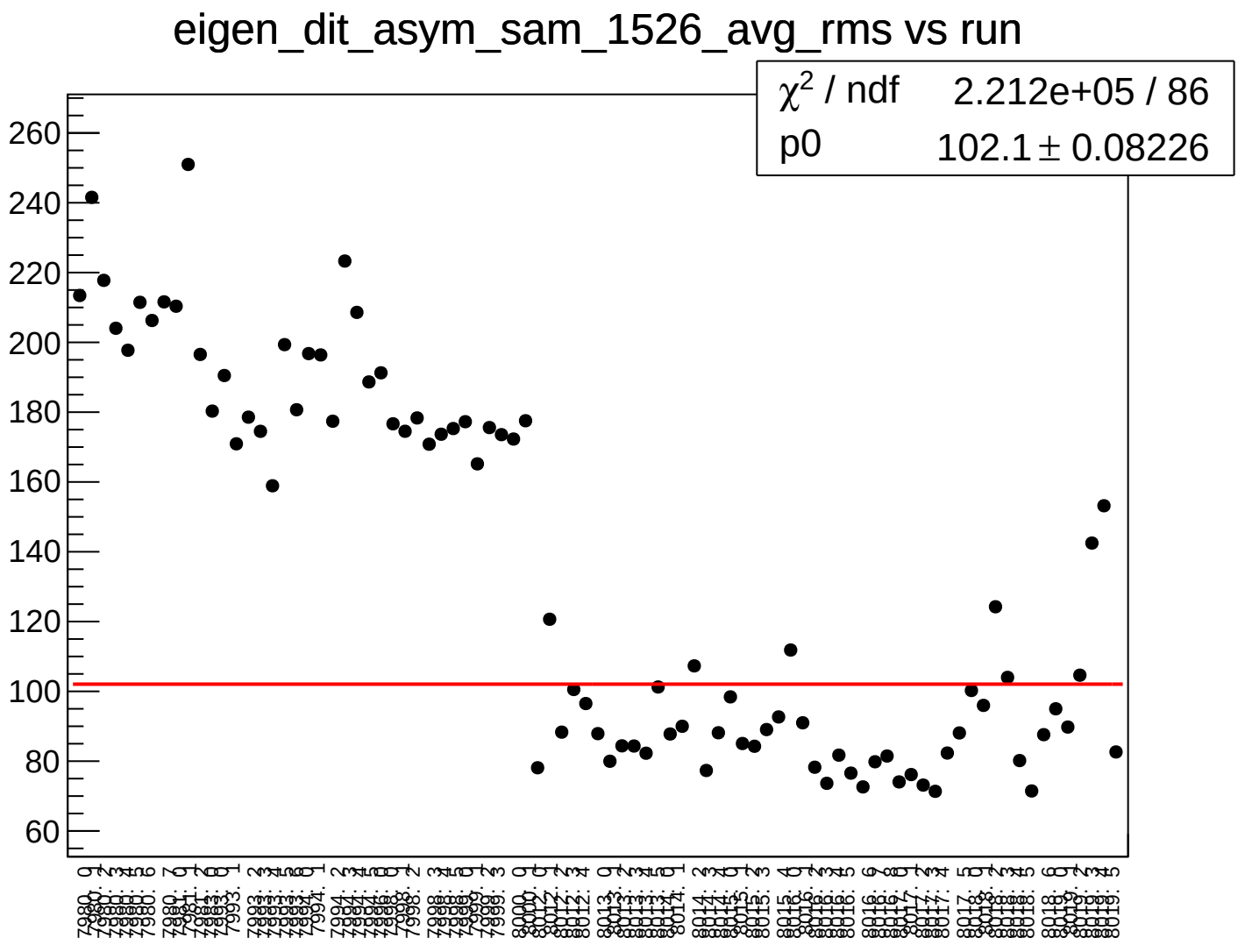

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.212e+05 / 86
p0 102.1 ± 0.08226
260
240
220
200
180
160
140
120
100
80
60

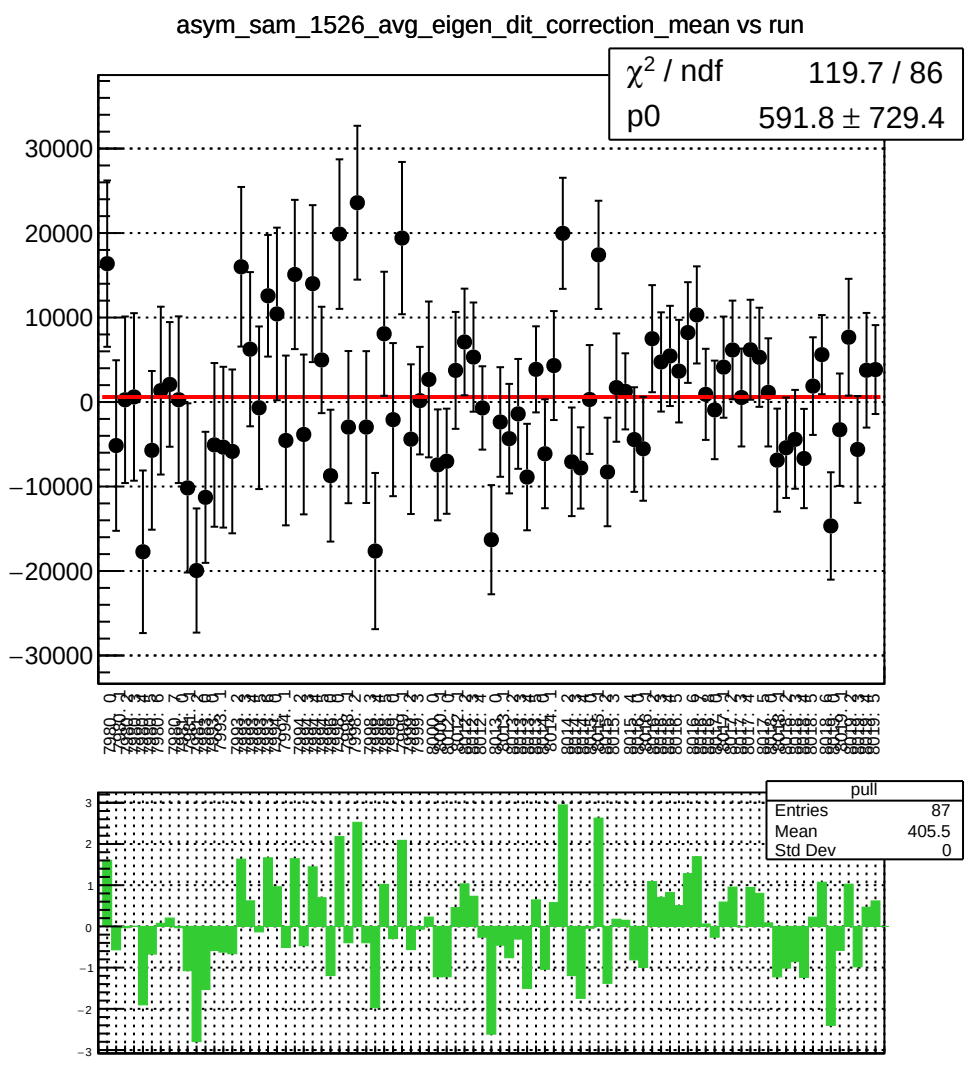

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 119.7 / 86
p0 591.8 ± 729.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 405.5
Std Dev 0
3
2
1
0
−1
−2
−3

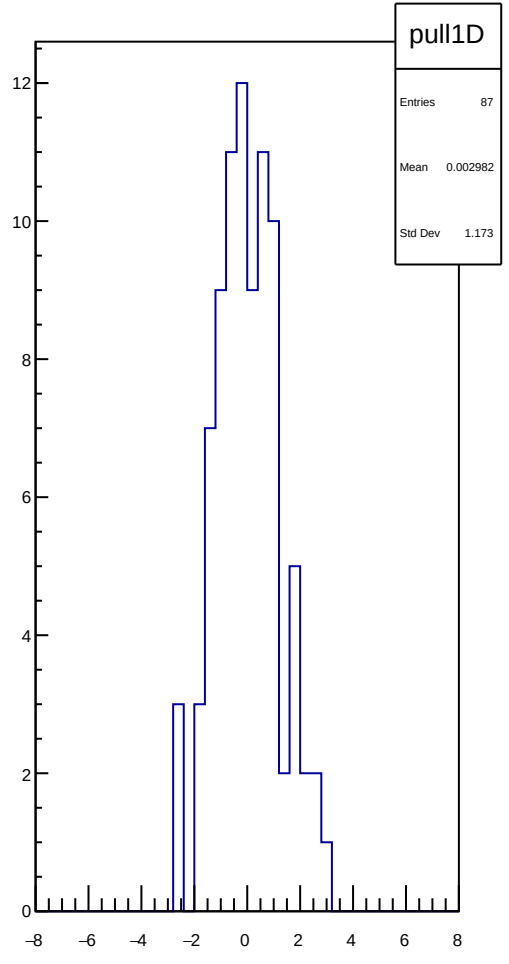

pull1D
Entries 87
Mean 0.002982
Std Dev 1.173
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

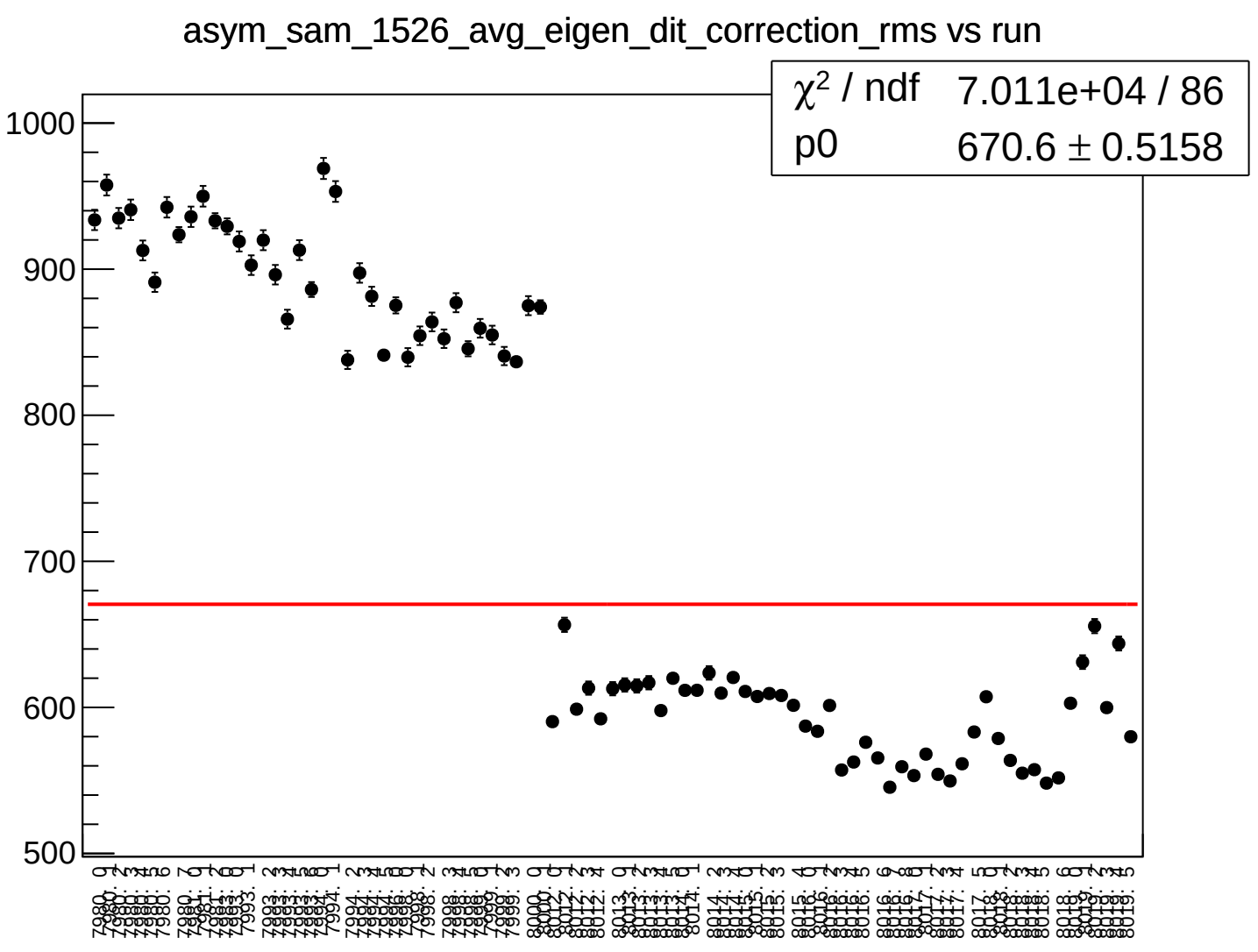

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 7.011e+04 / 86
p0 670.6 ± 0.5158
1000
900
800
700
600
500

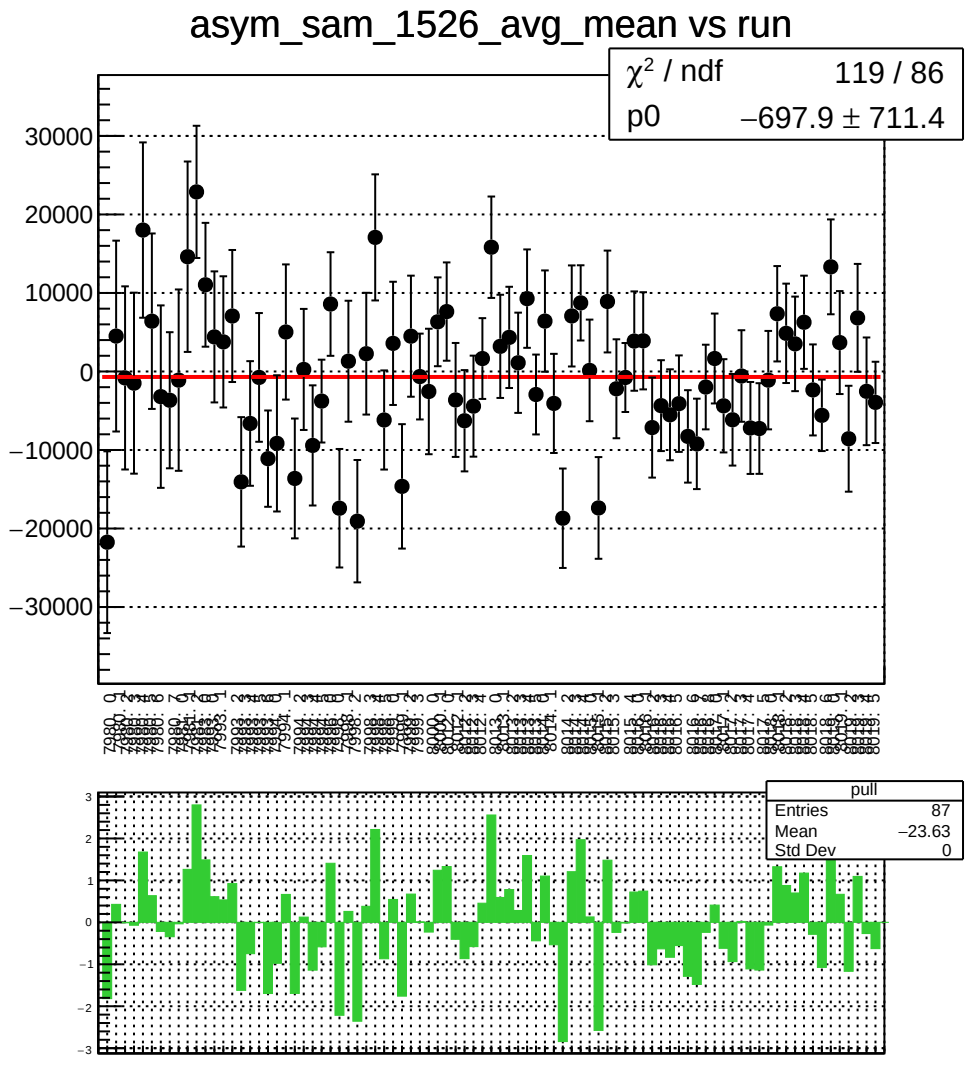

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 76.15 / 86
p0 116.1 ± 116.3
pull
Entries 87
Mean −83.44
Std Dev 0
pull1D
Entries 87
Mean 0.0256
Std Dev 0.9352

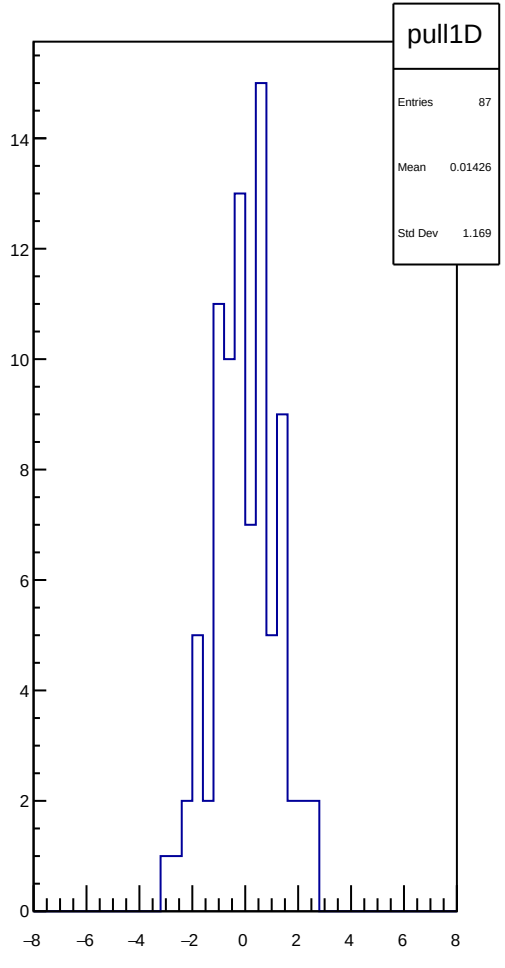

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.212e+05 / 86
p0 102.1 ± 0.08226
260
240
220
200
180
160
140
120
100
80
60

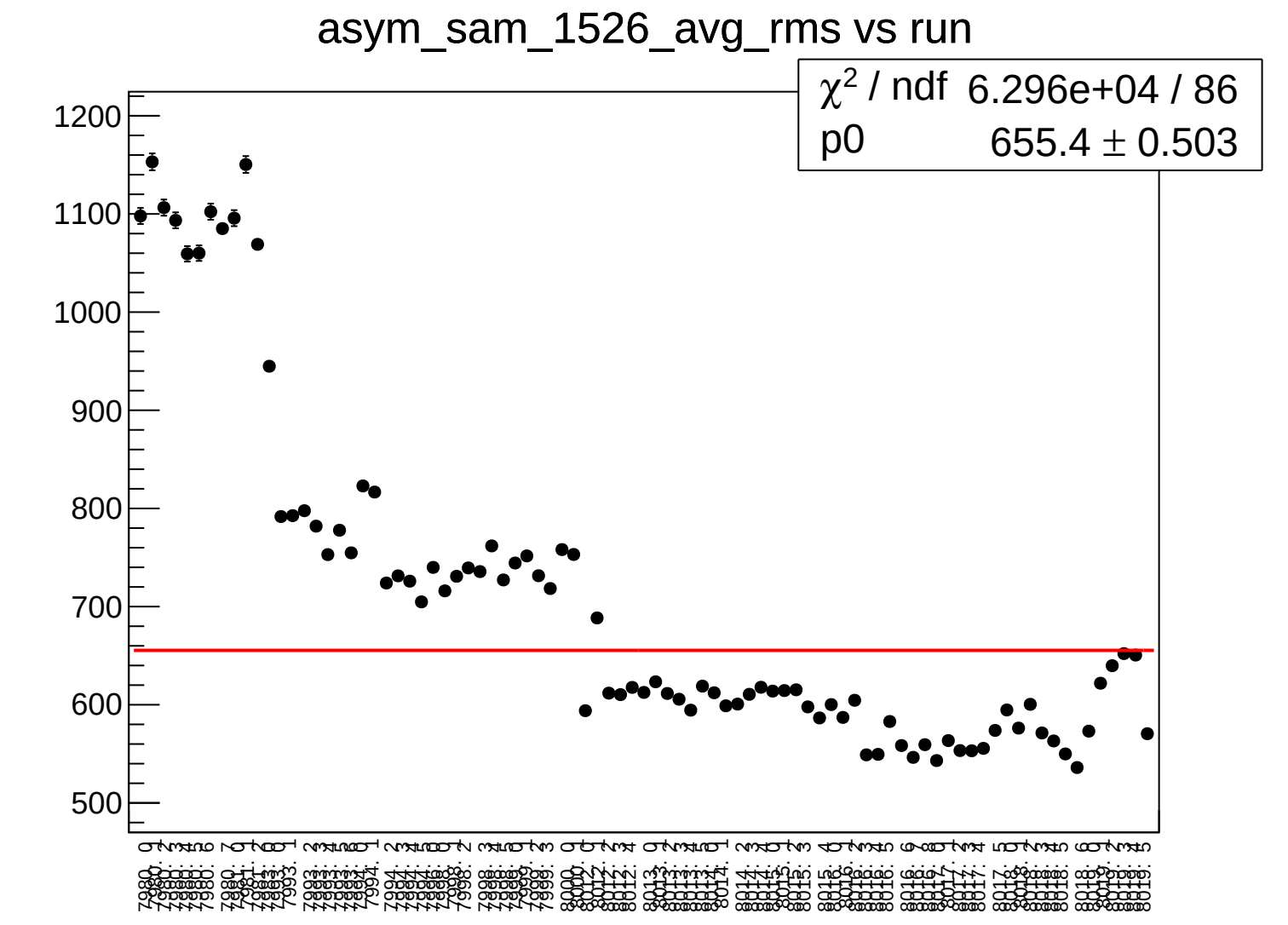

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 119.7 / 86
p0 591.8 ± 729.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 405.5
Std Dev 0
3
2
1
0
−1
−2
−3

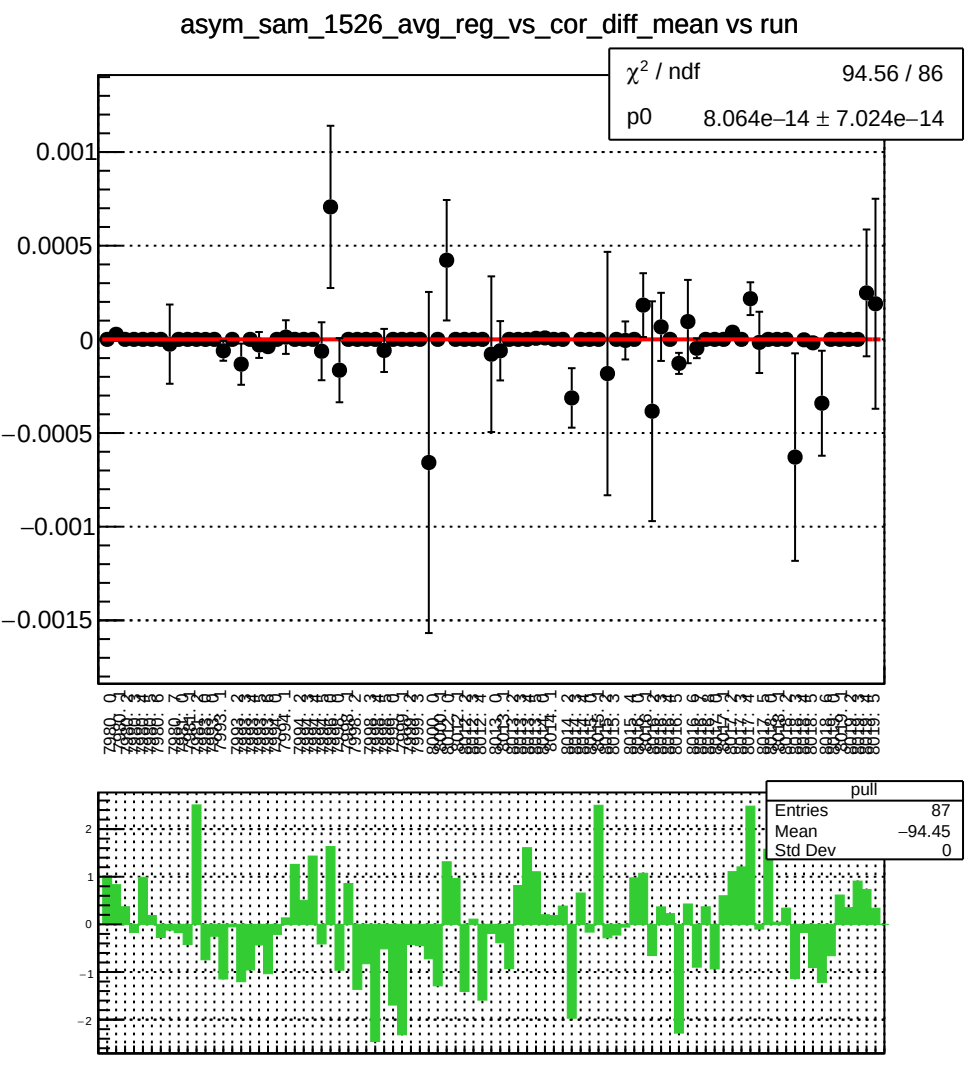

pull1D
Entries 87
Mean 0.002982
Std Dev 1.173
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

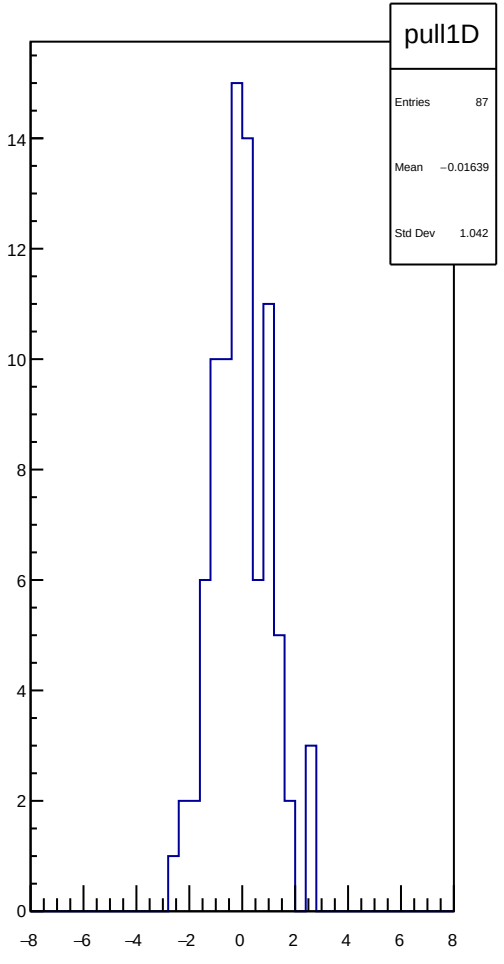

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.011e+04 / 86
p0 670.6 ± 0.5158
1000
900
800
700
600
500

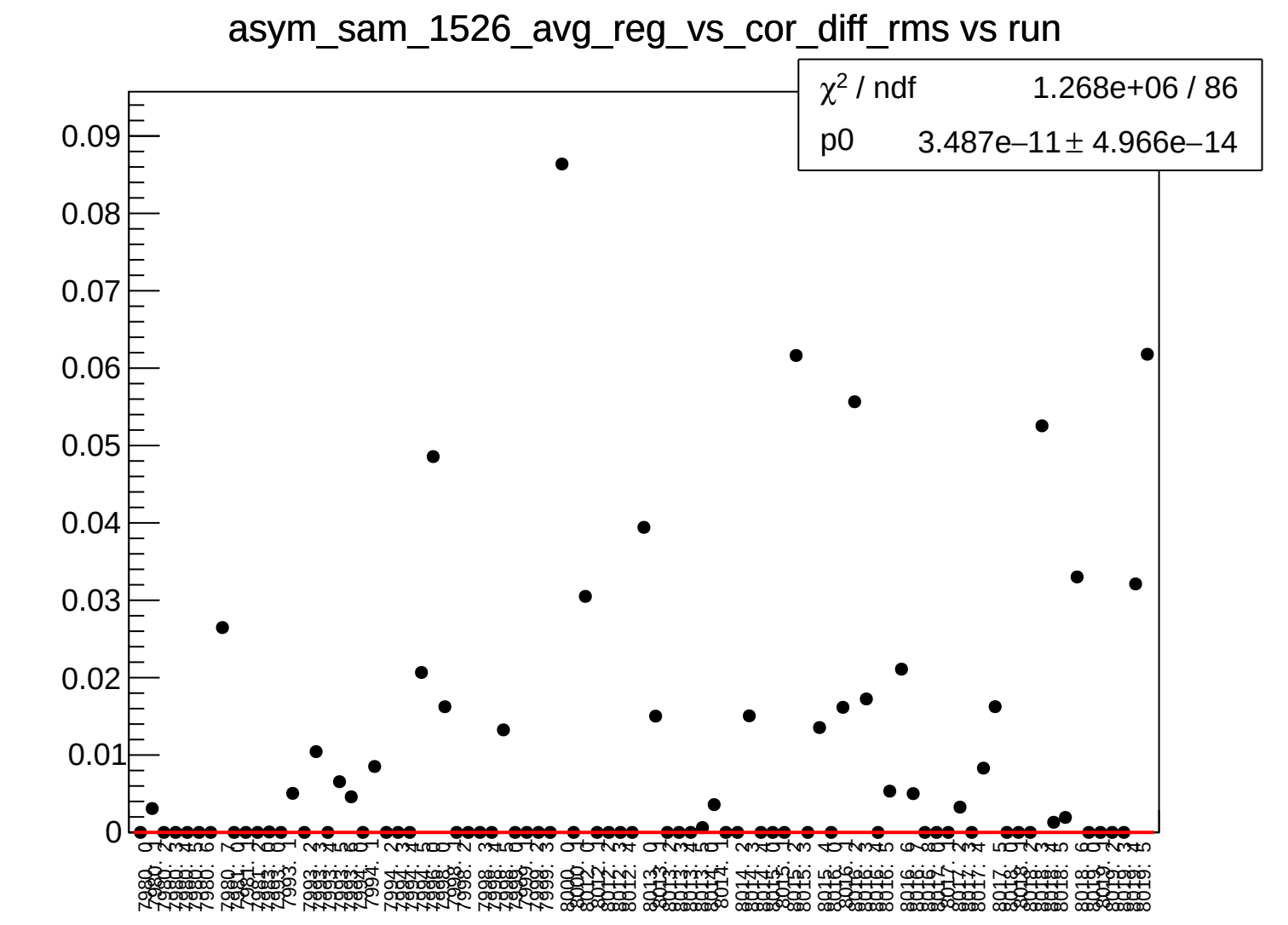

asym_sam_1526_avg_mean vs run
χ² / ndf 119 / 86
p0 −697.9 ± 711.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −23.63
Std Dev 0
3
2
1
0
−1
−2
−3

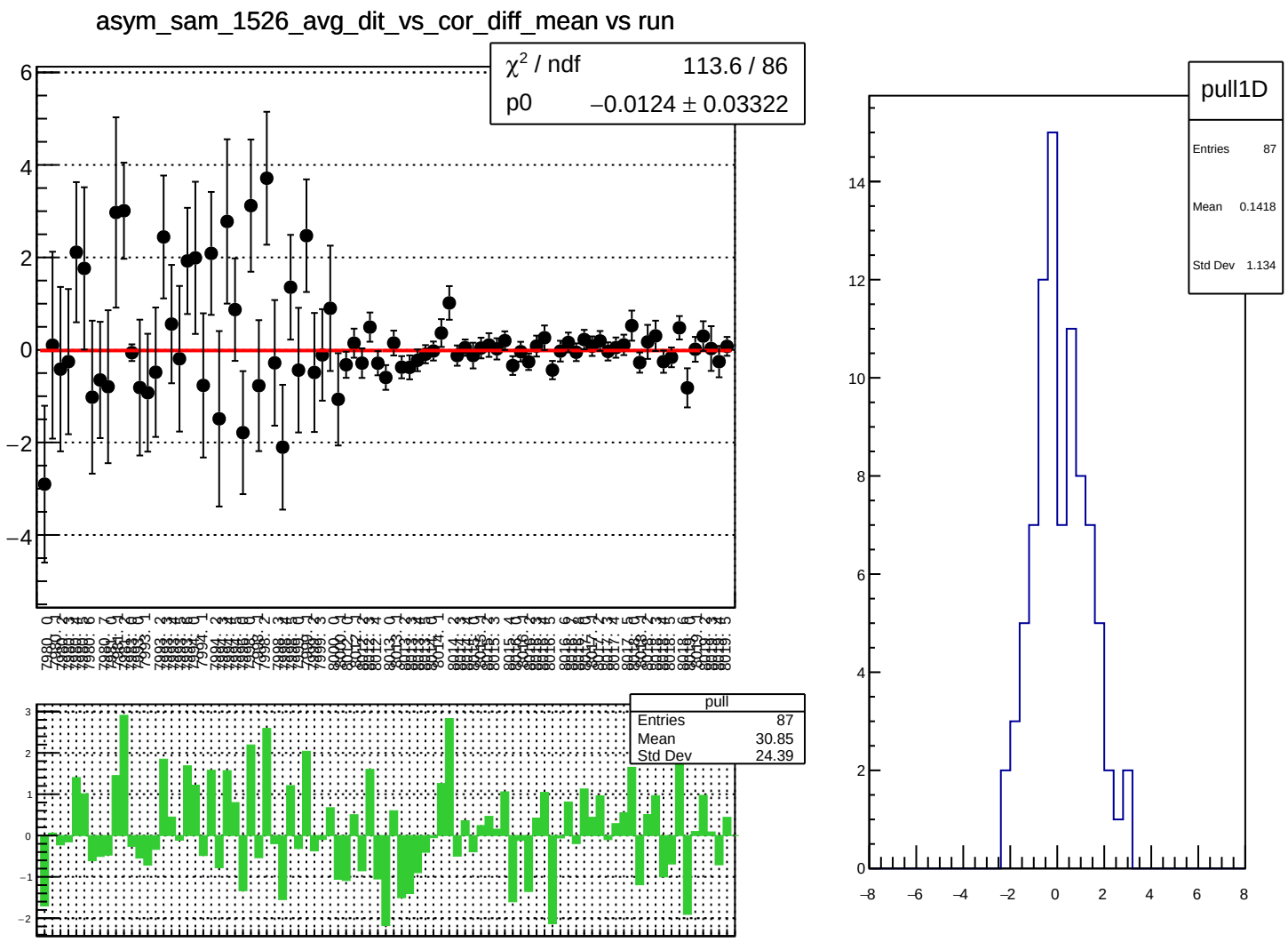

pull1D
Entries 87
Mean 0.01426
Std Dev 1.169
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

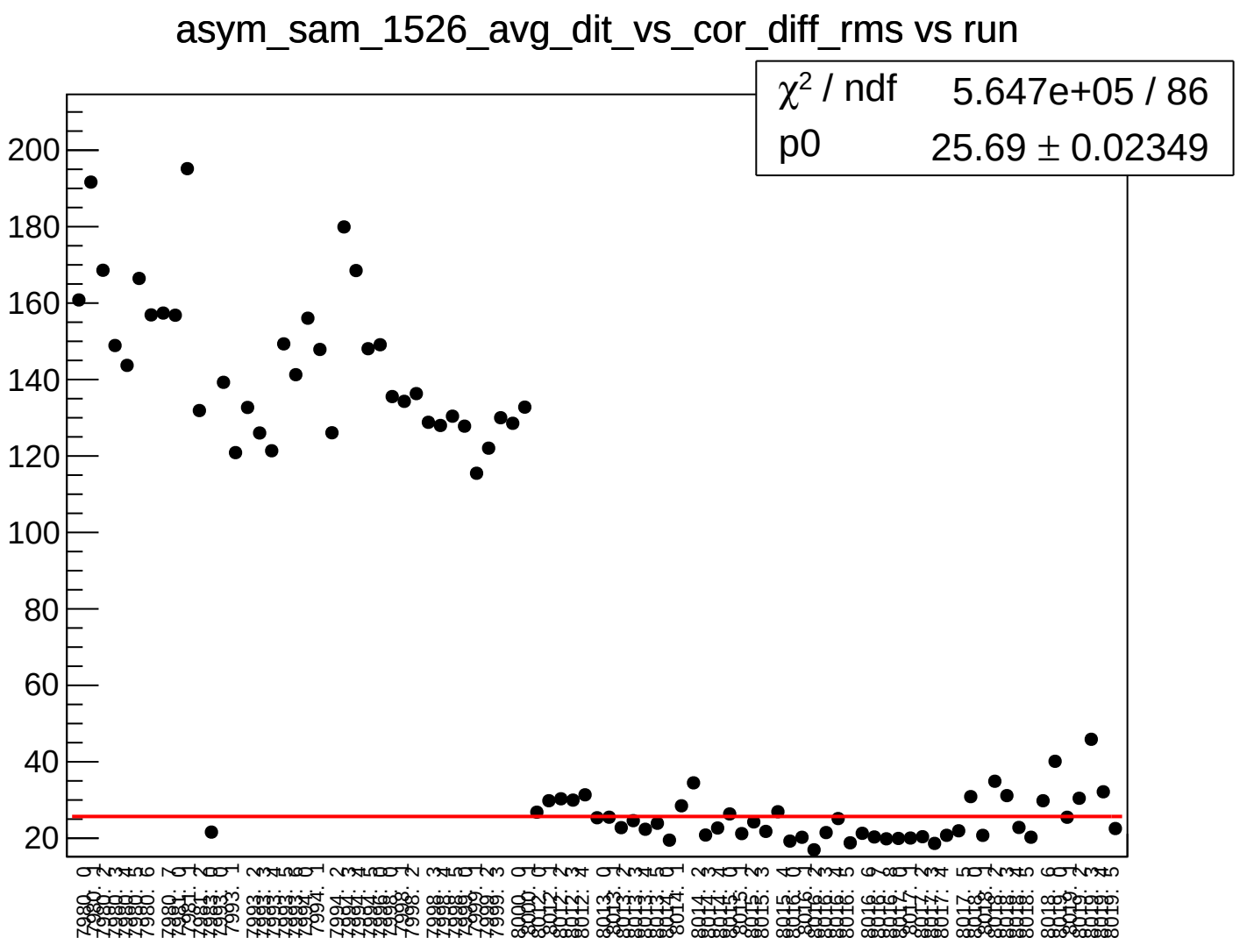

asym_sam_1526_avg_rms vs run
χ² / ndf 6.296e+04 / 86
p0 655.4 ± 0.503
1200
1100
1000
900
800
700
600
500

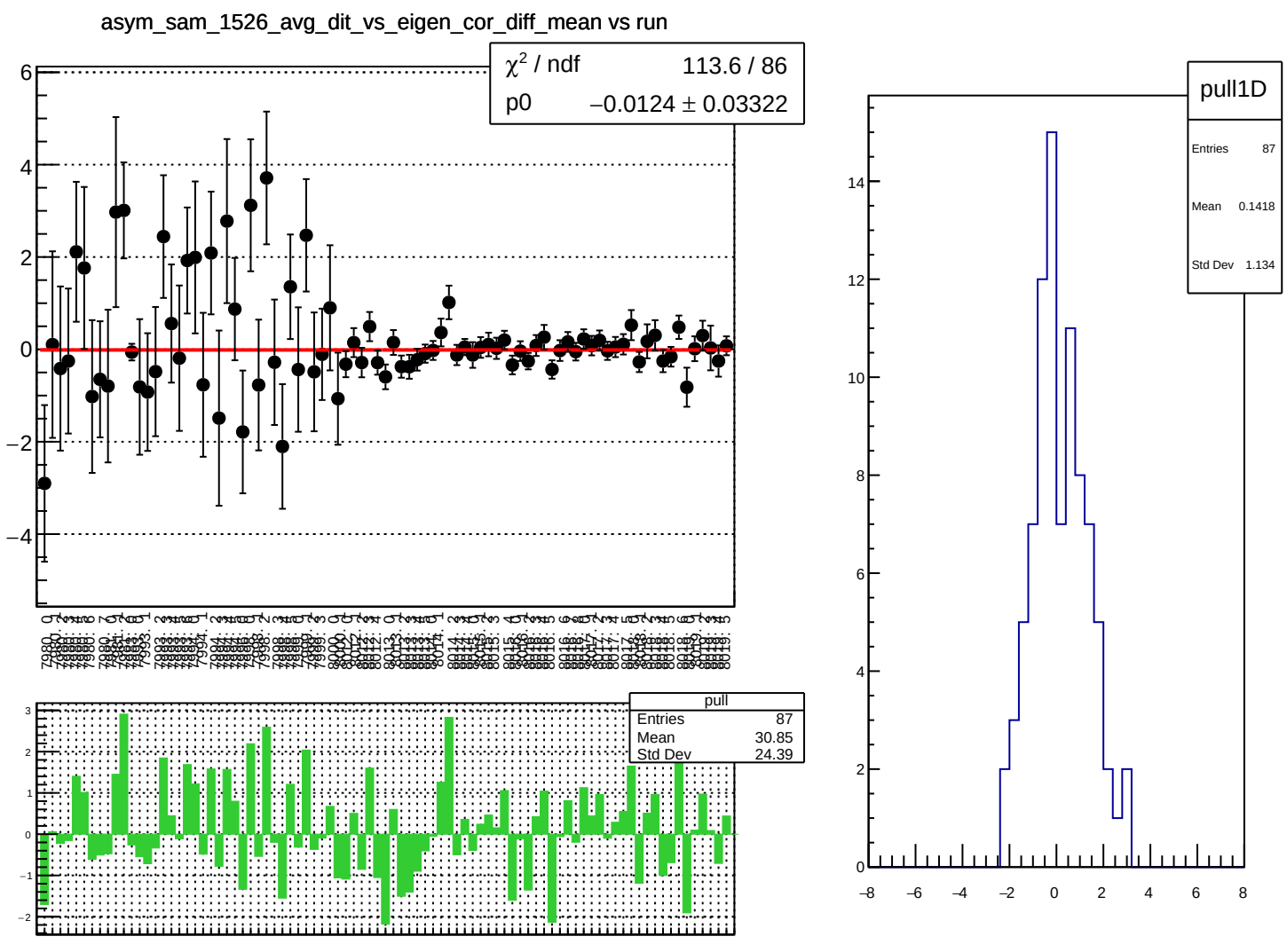

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.56 / 86
p0 8.064e−14 ± 7.024e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 87
Mean −94.45
Std Dev 0
2
1
0
−1
−2

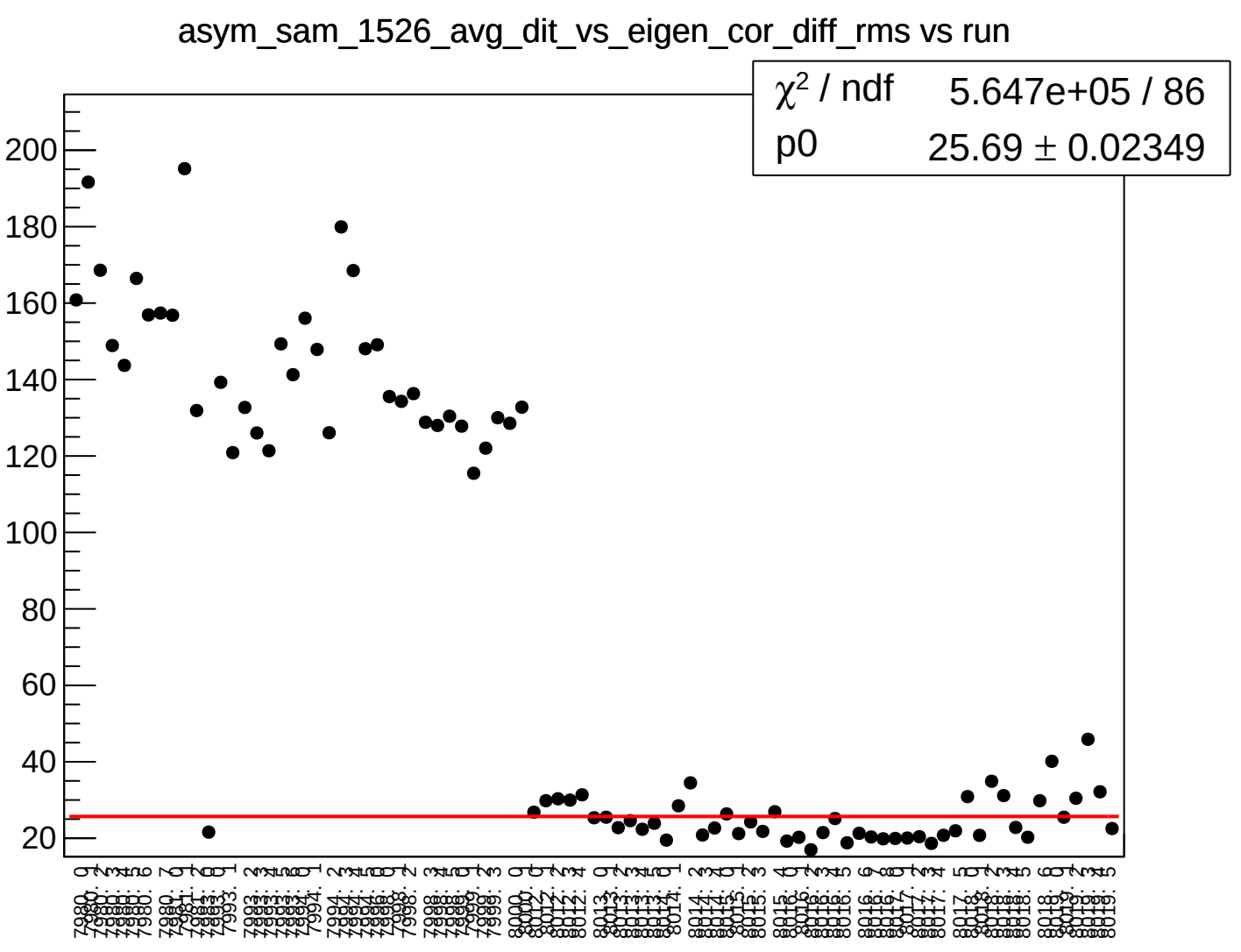

pull1D
Entries 87
Mean −0.01639
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

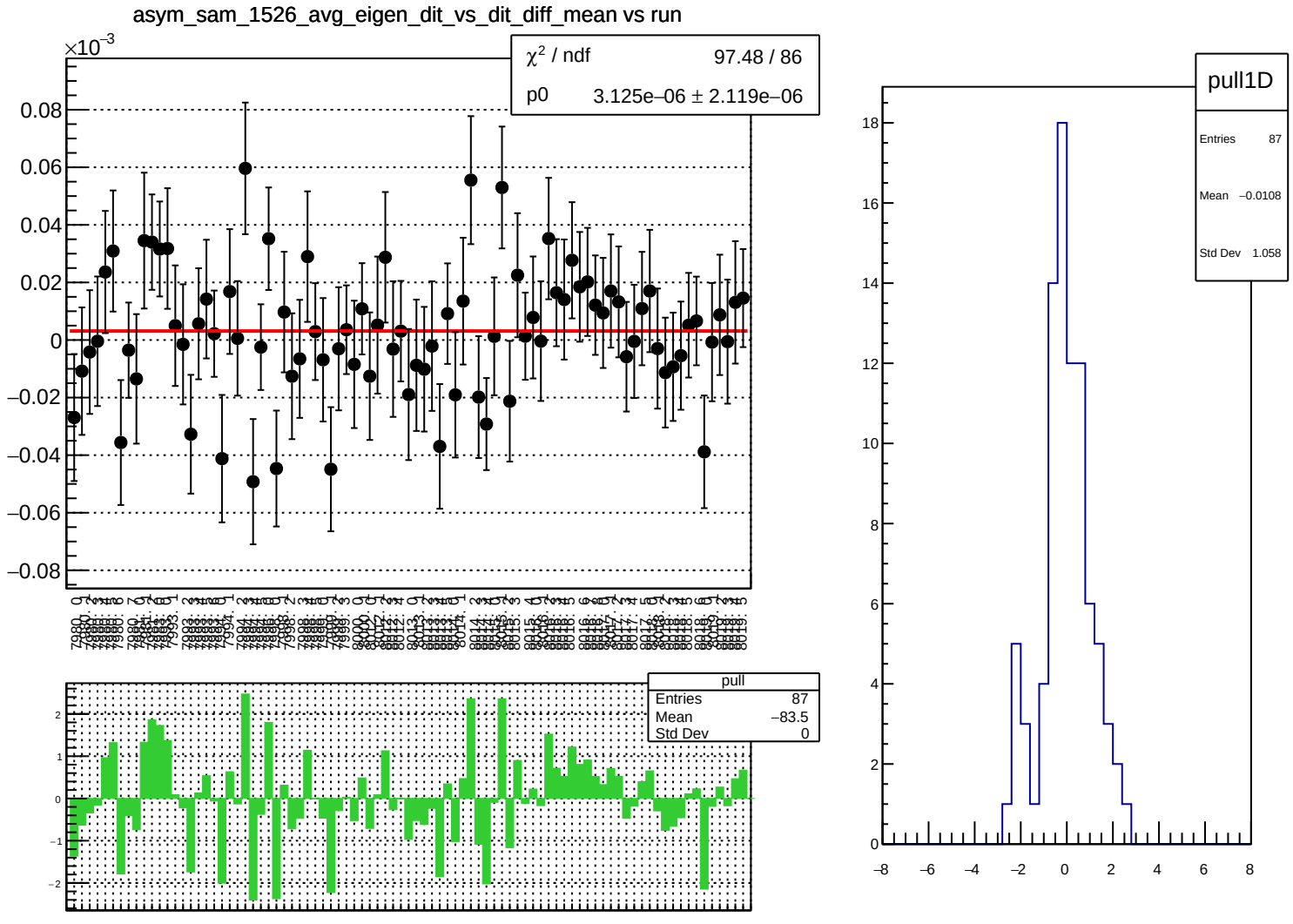

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.268e+06 / 86
p0 3.487e−11 ± 4.966e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

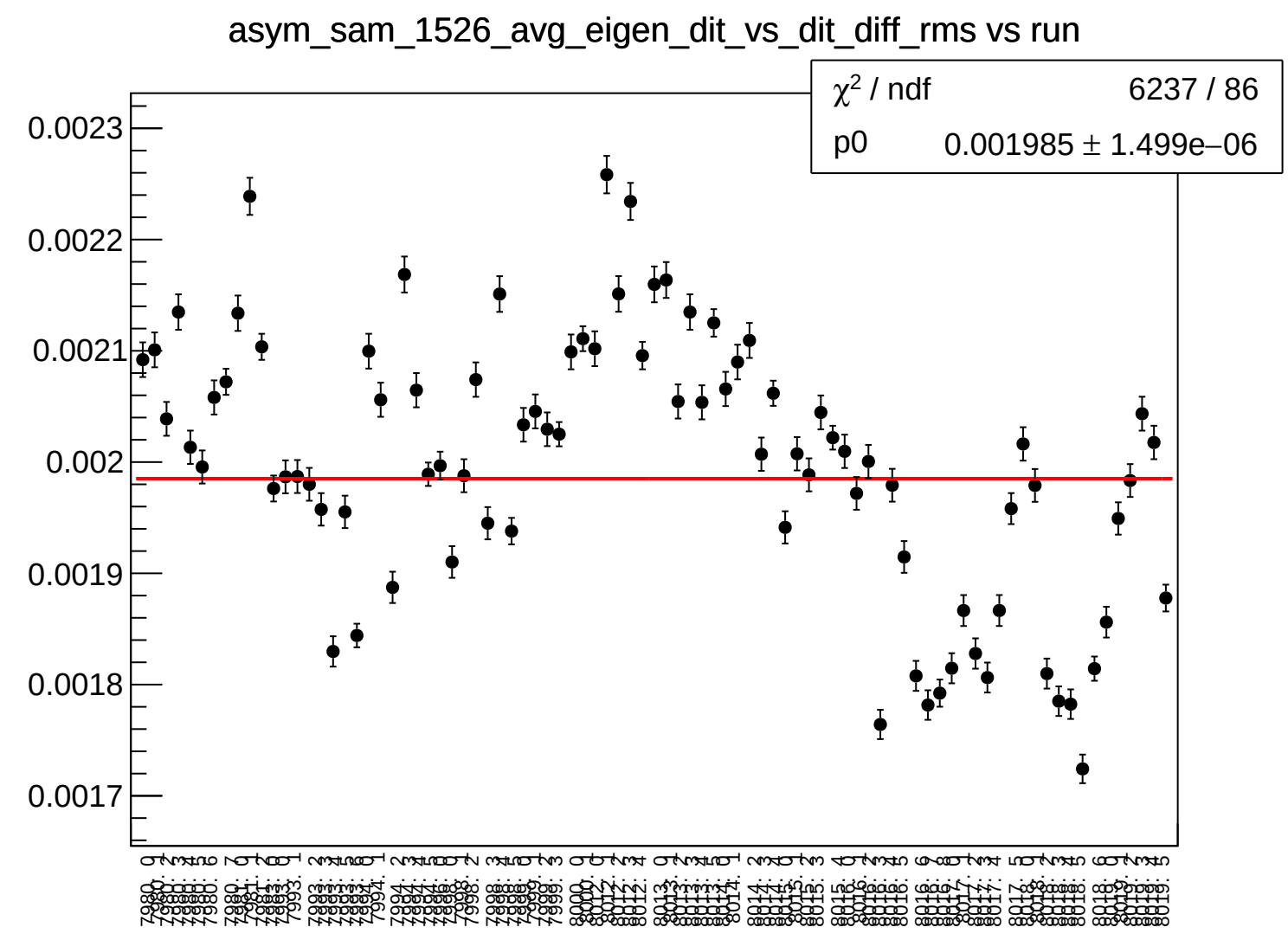

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 113.6 / 86
p0 −0.0124 ± 0.03322
pull
Entries 87
Mean 30.85
Std Dev 24.39
pull1D
Entries 87
Mean 0.1418
Std Dev 1.134

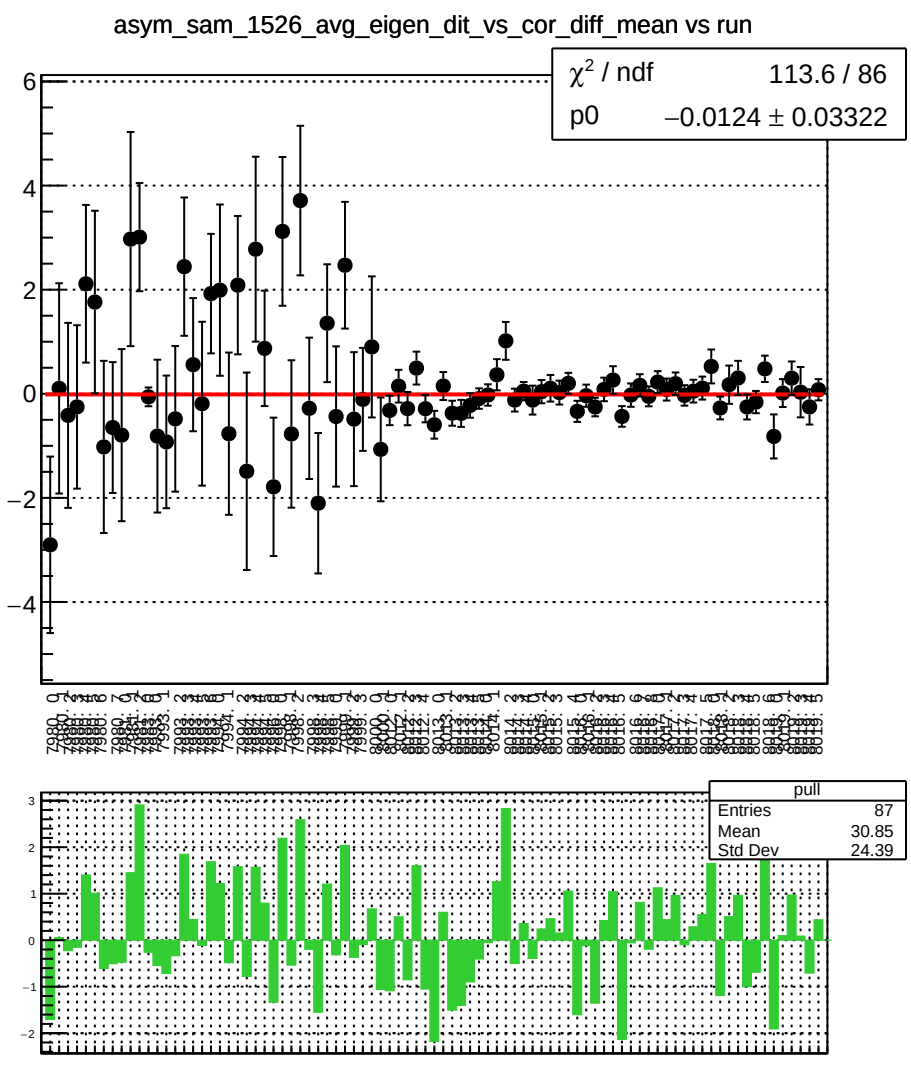

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.647e+05 / 86
p0 25.69 ± 0.02349
200
180
160
140
120
100
80
60
40
20

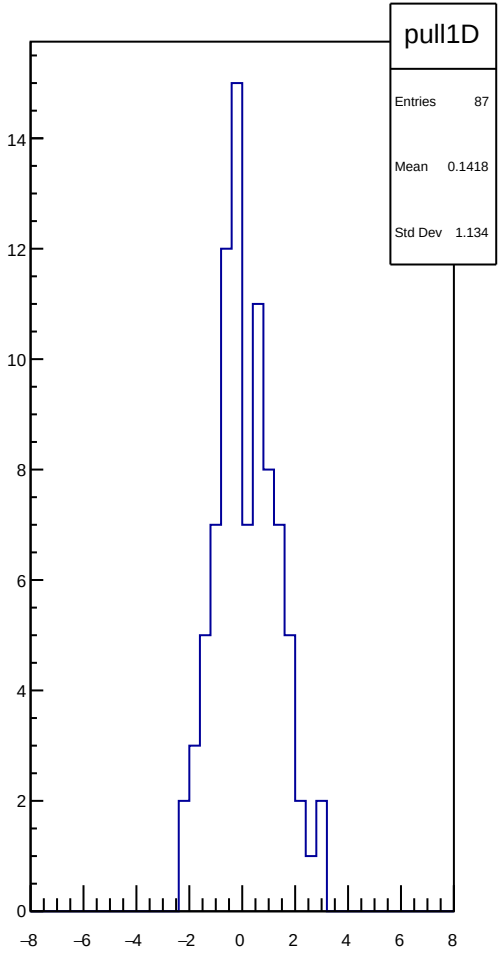

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.6 / 86
p0 −0.0124 ± 0.03322
pull
Entries 87
Mean 30.85
Std Dev 24.39
pull1D
Entries 87
Mean 0.1418
Std Dev 1.134

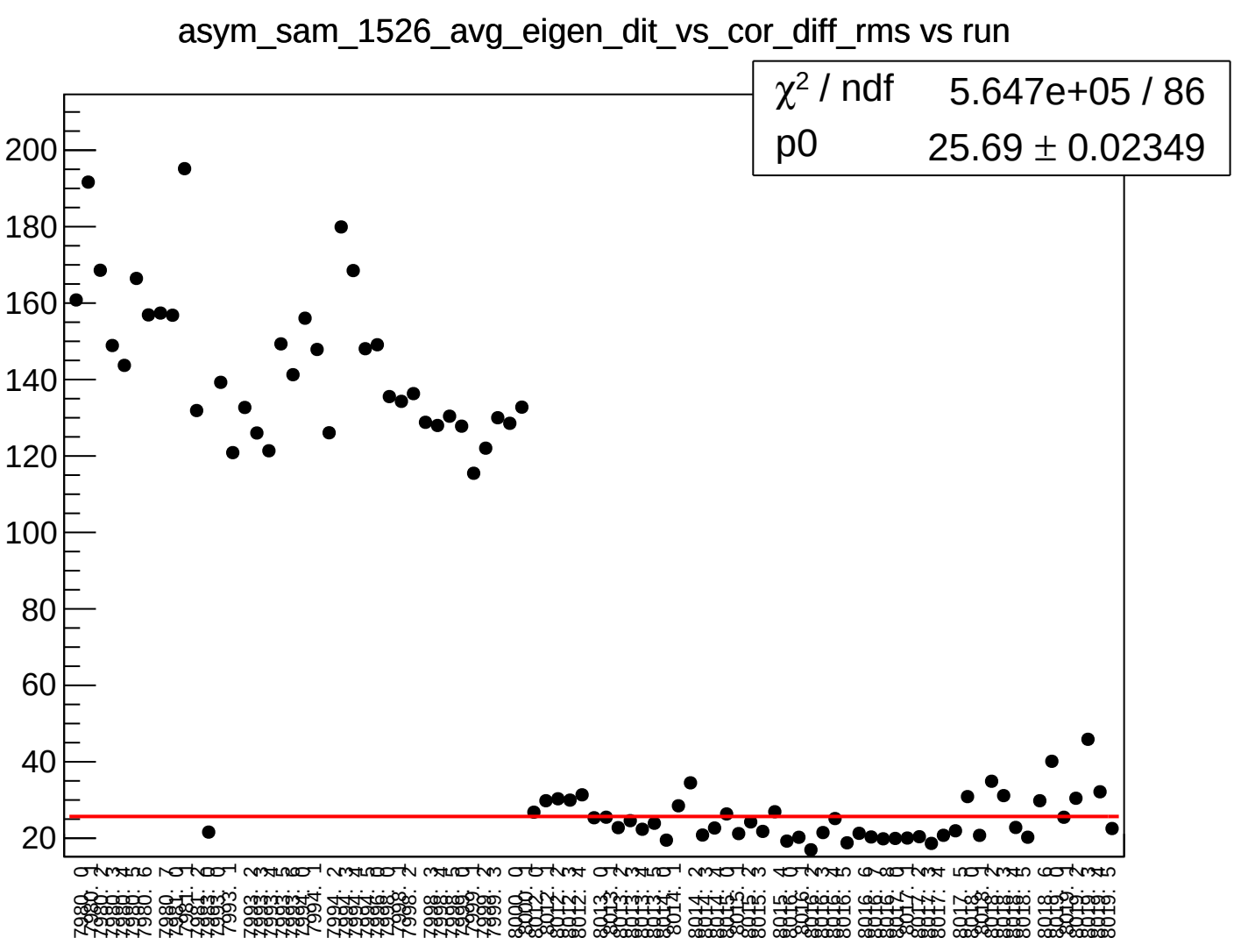

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.647e+05 / 86
p0 25.69 ± 0.02349
200
180
160
140
120
100
80
60
40
20

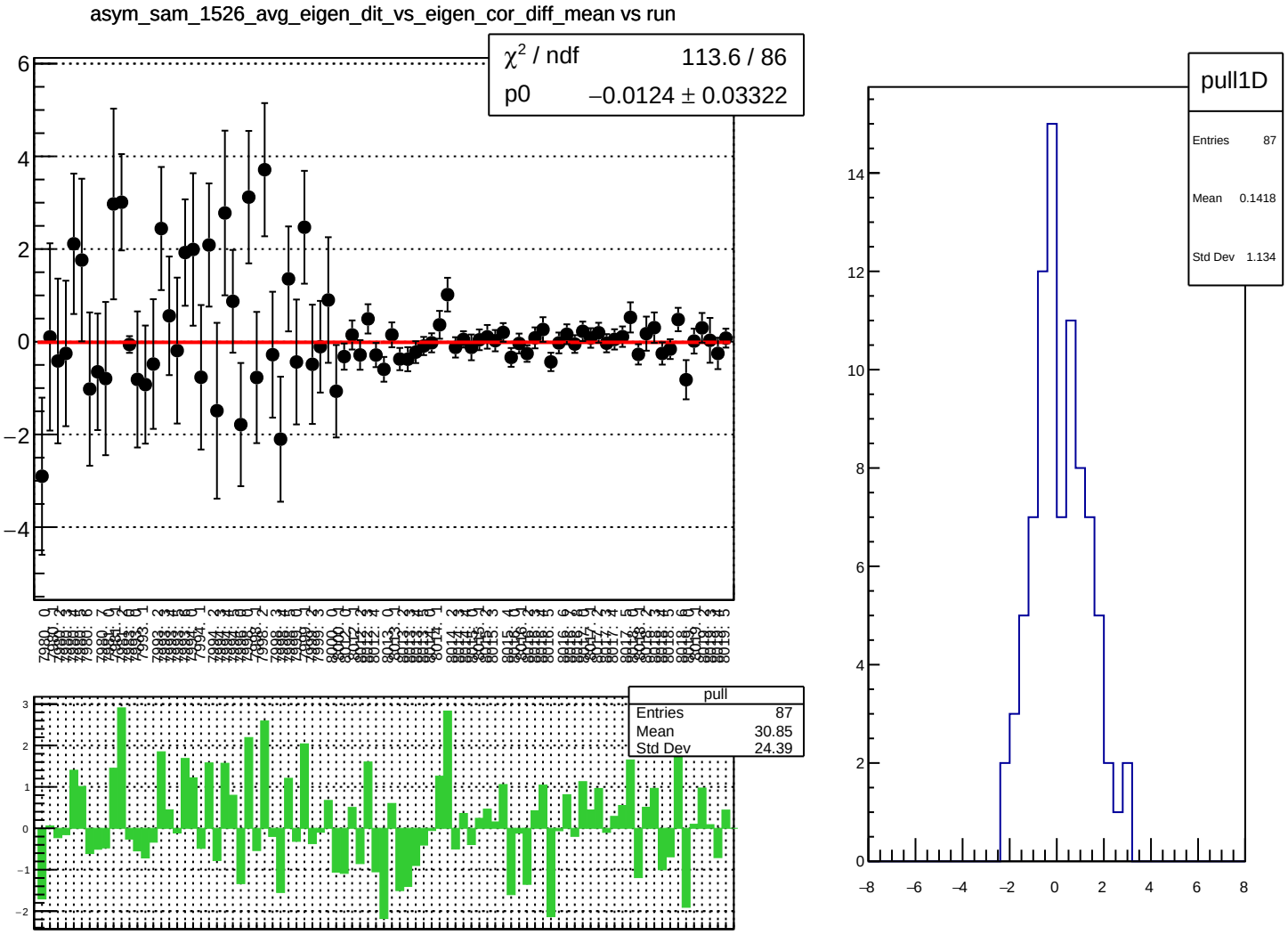

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.48 / 86
p0 3.125e−06 ± 2.119e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 87
Mean −83.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.0108
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

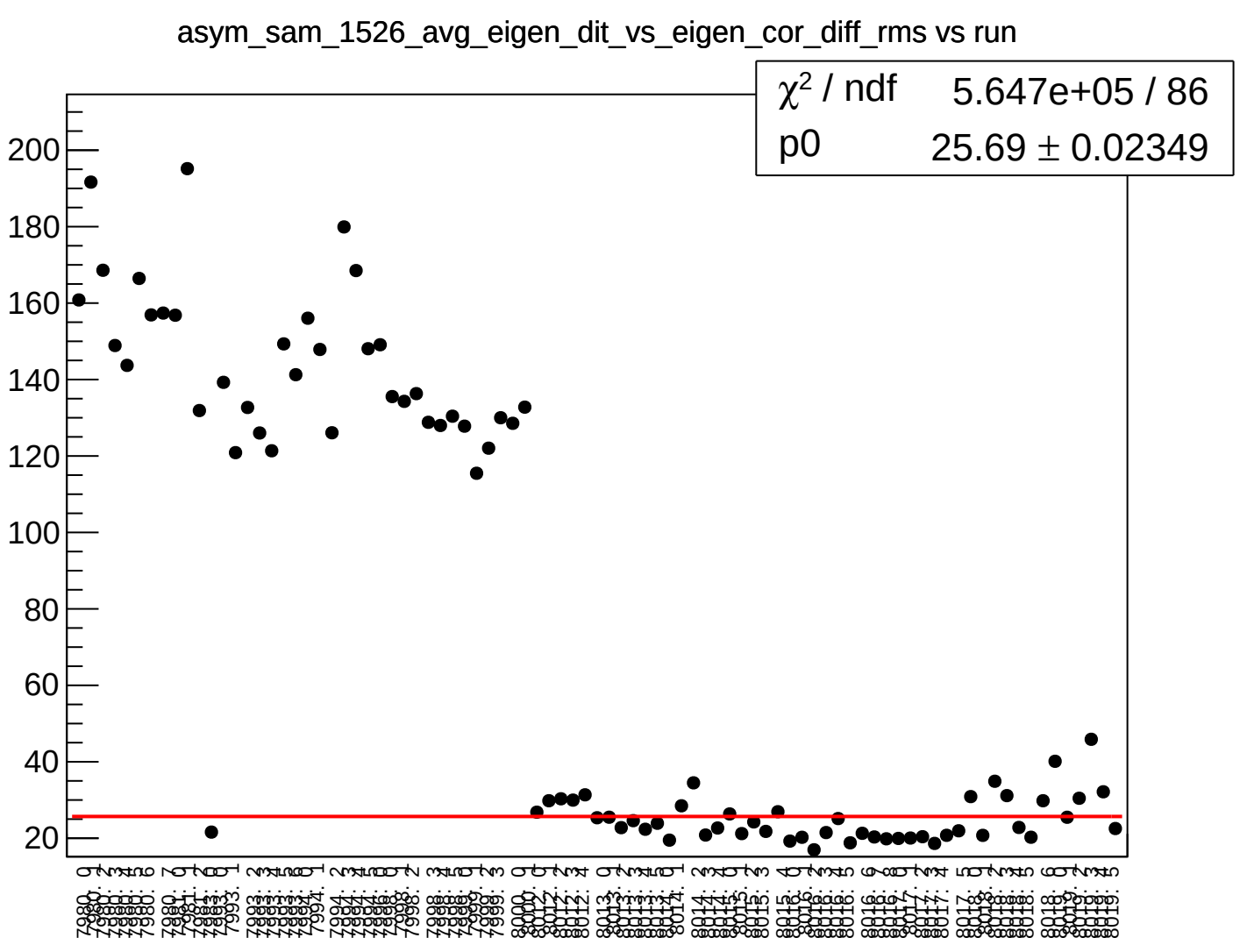

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6237 / 86
p0 0.001985 ± 1.499e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

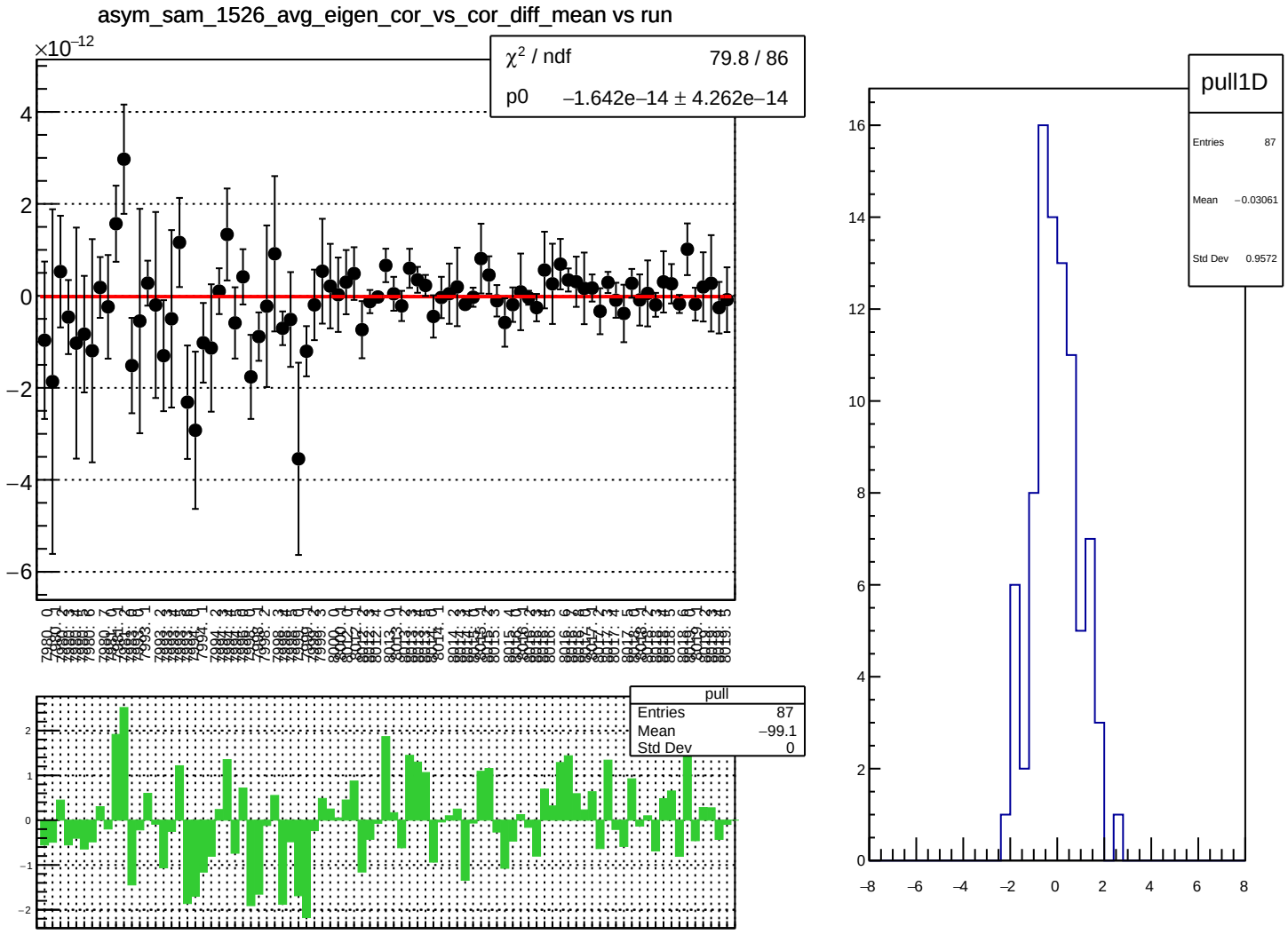

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.6 / 86
p0 −0.0124 ± 0.03322
pull
Entries 87
Mean 30.85
Std Dev 24.39

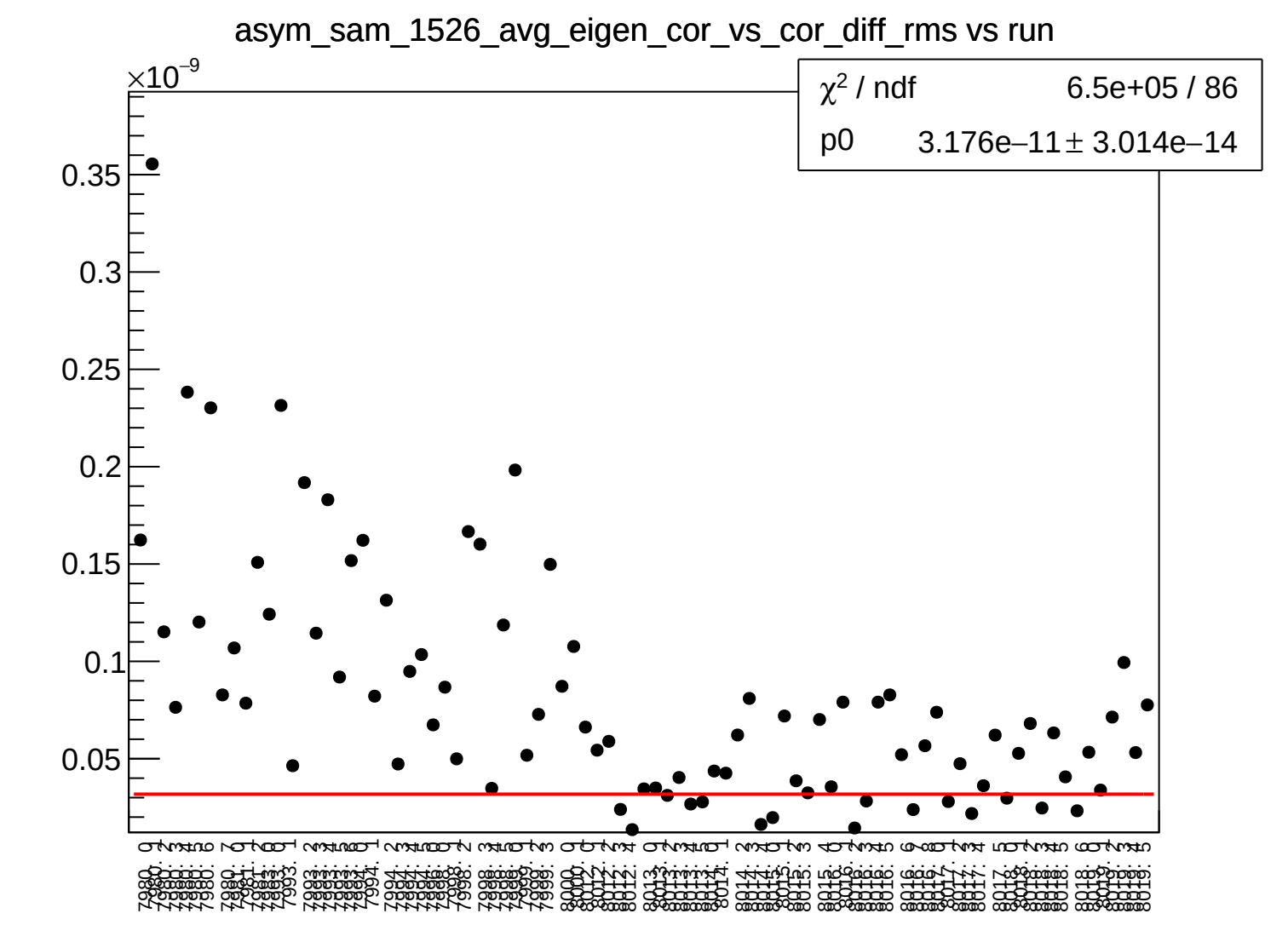

pull1D
Entries 87
Mean 0.1418
Std Dev 1.134

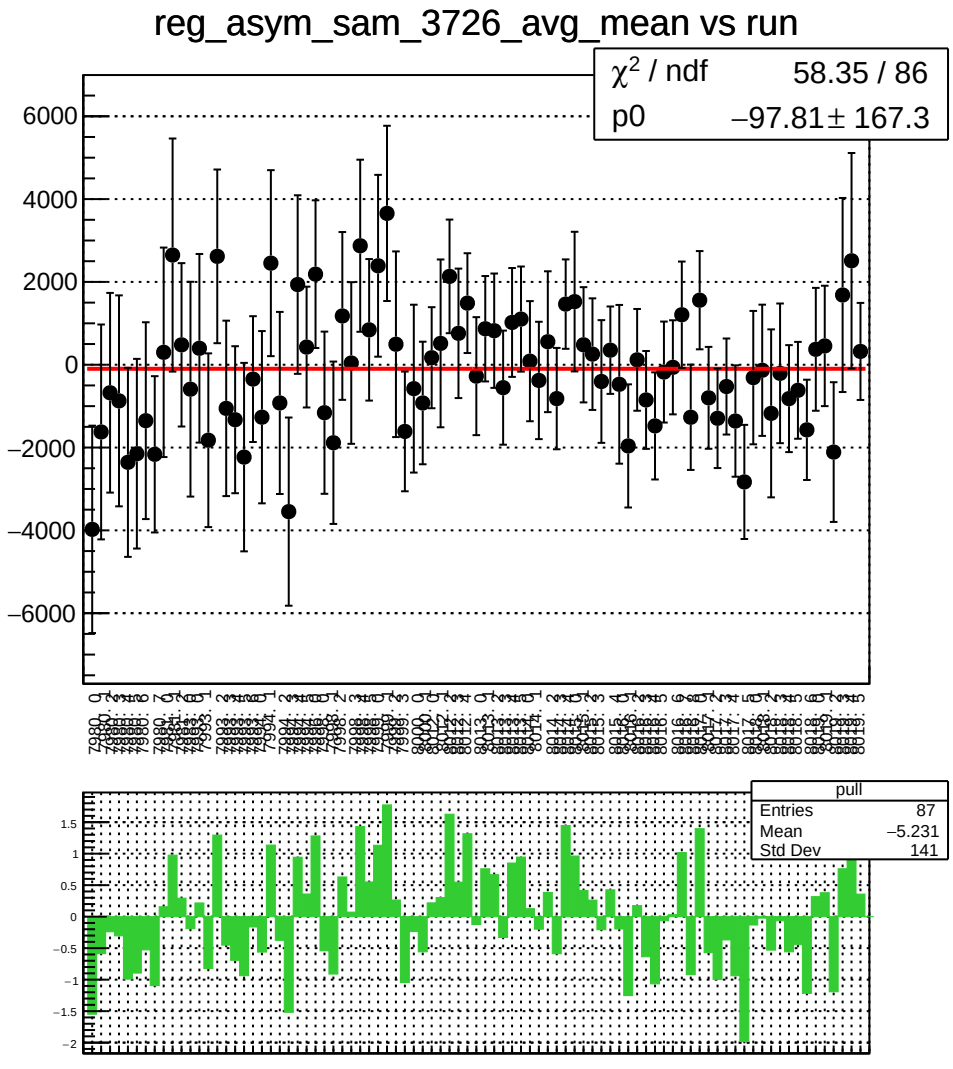

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.647e+05 / 86
p0 25.69 ± 0.02349
200
180
160
140
120
100
80
60
40
20

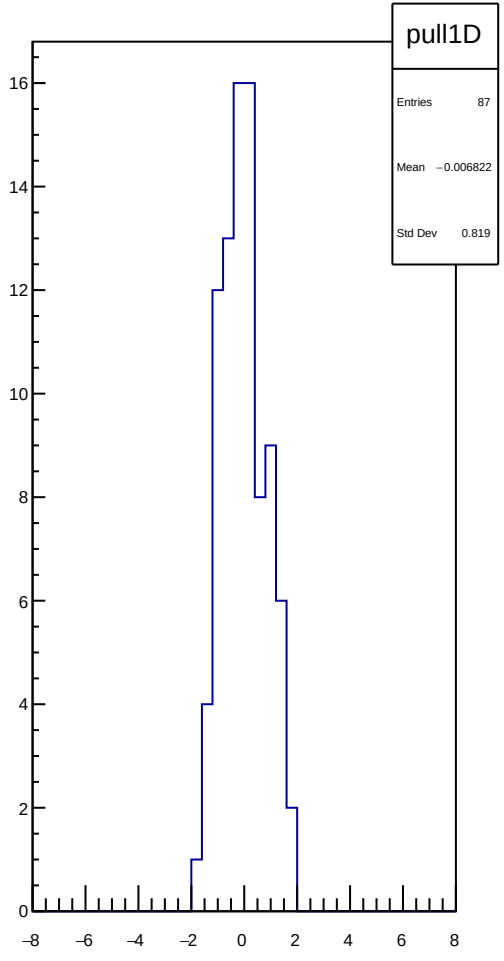

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.6 / 86
p0 −0.0124 ± 0.03322
pull
Entries 87
Mean 30.85
Std Dev 24.39
pull1D
Entries 87
Mean 0.1418
Std Dev 1.134

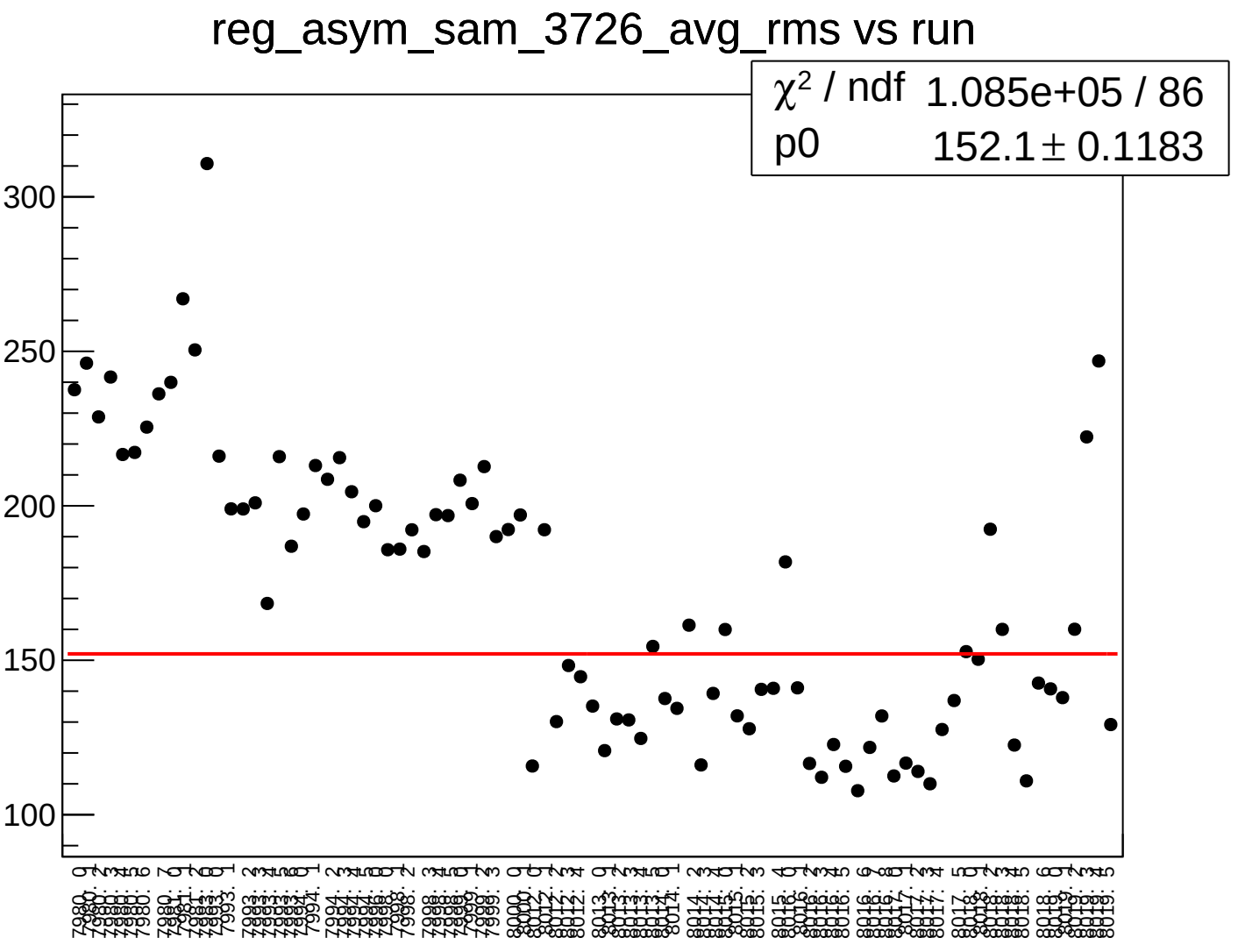

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.647e+05 / 86
p0 25.69 ± 0.02349
200
180
160
140
120
100
80
60
40
20

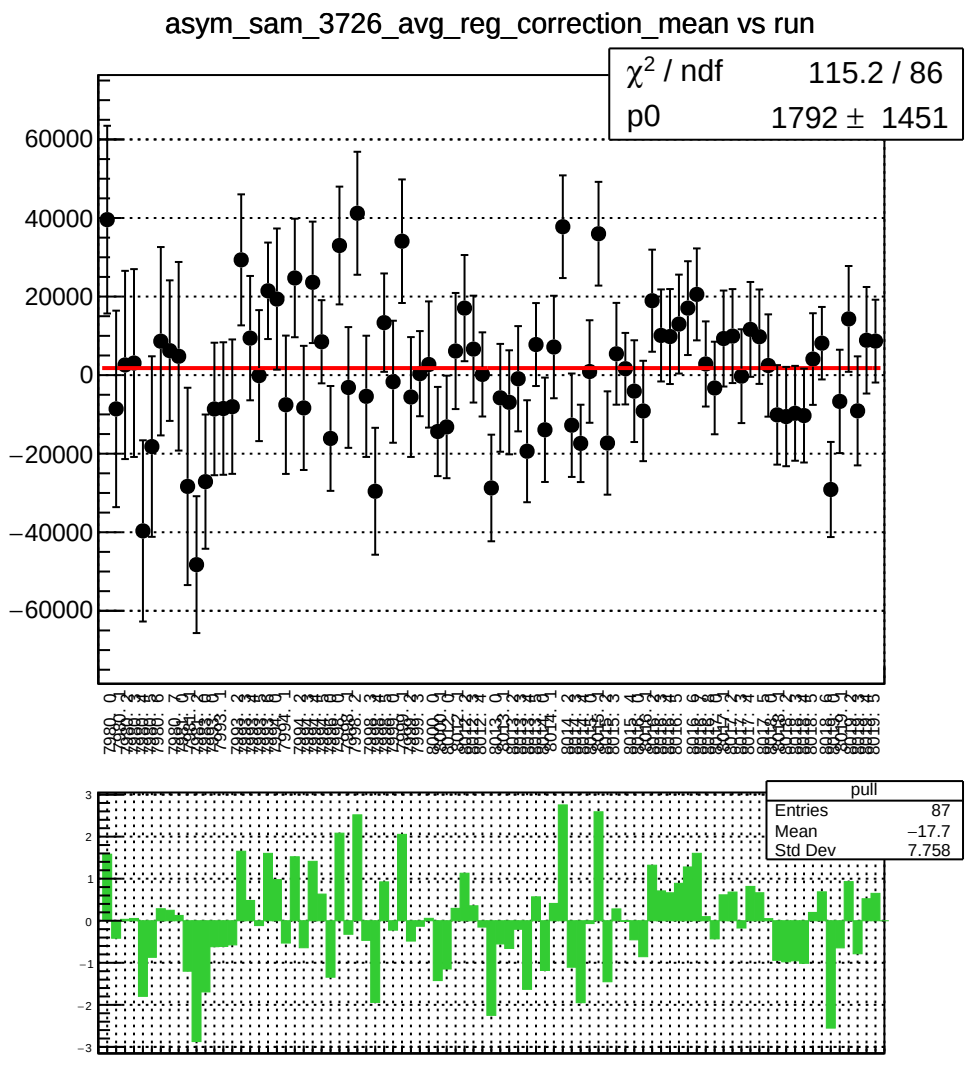

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.8 / 86
p0 −1.642e−14 ± 4.262e−14
pull
Entries 87
Mean −99.1
Std Dev 0
pull1D
Entries 87
Mean −0.03061
Std Dev 0.9572

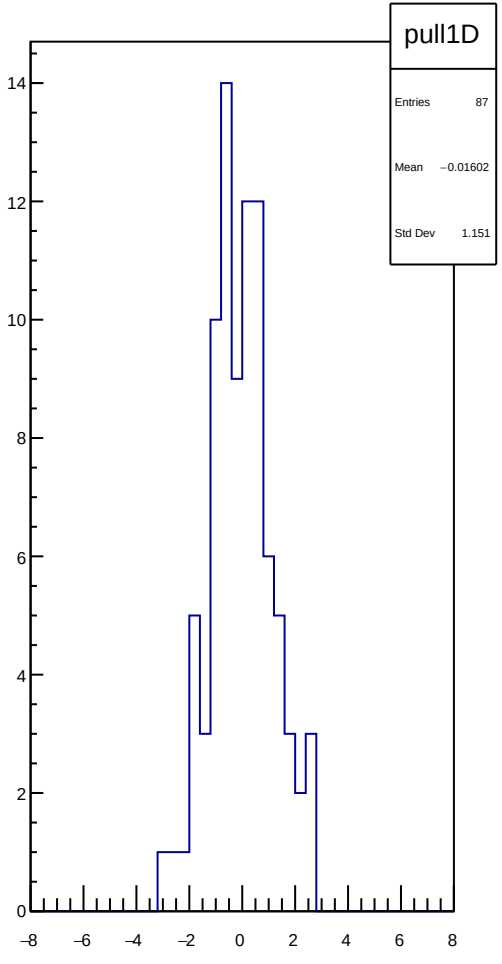

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.5e+05 / 86
p0 3.176e−11 ± 3.014e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

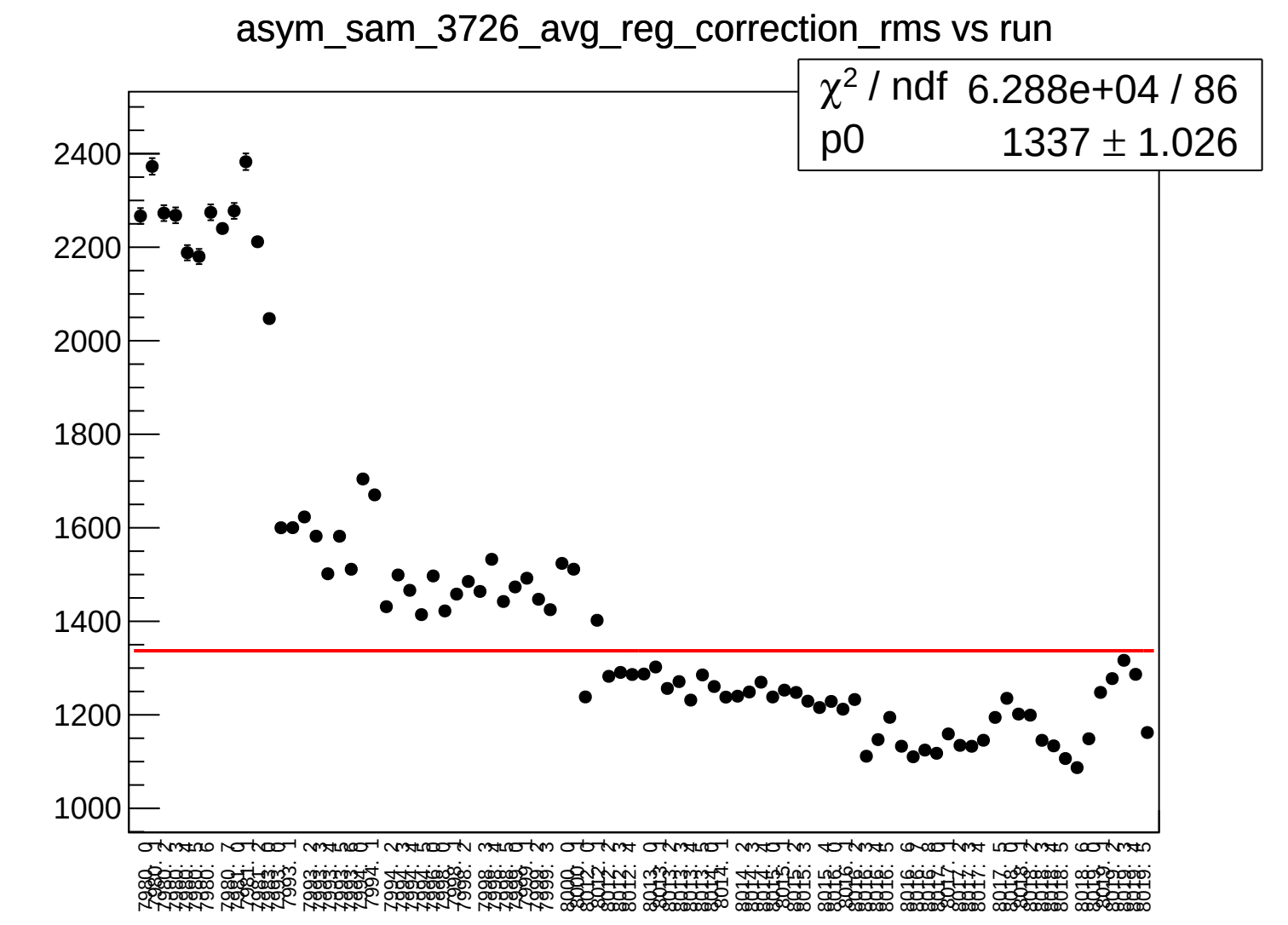

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 58.35 / 86
p0 −97.81 ± 167.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −5.231
Std Dev 141
1.5
1
0.5
0
−0.5
−1
−1.5
−2

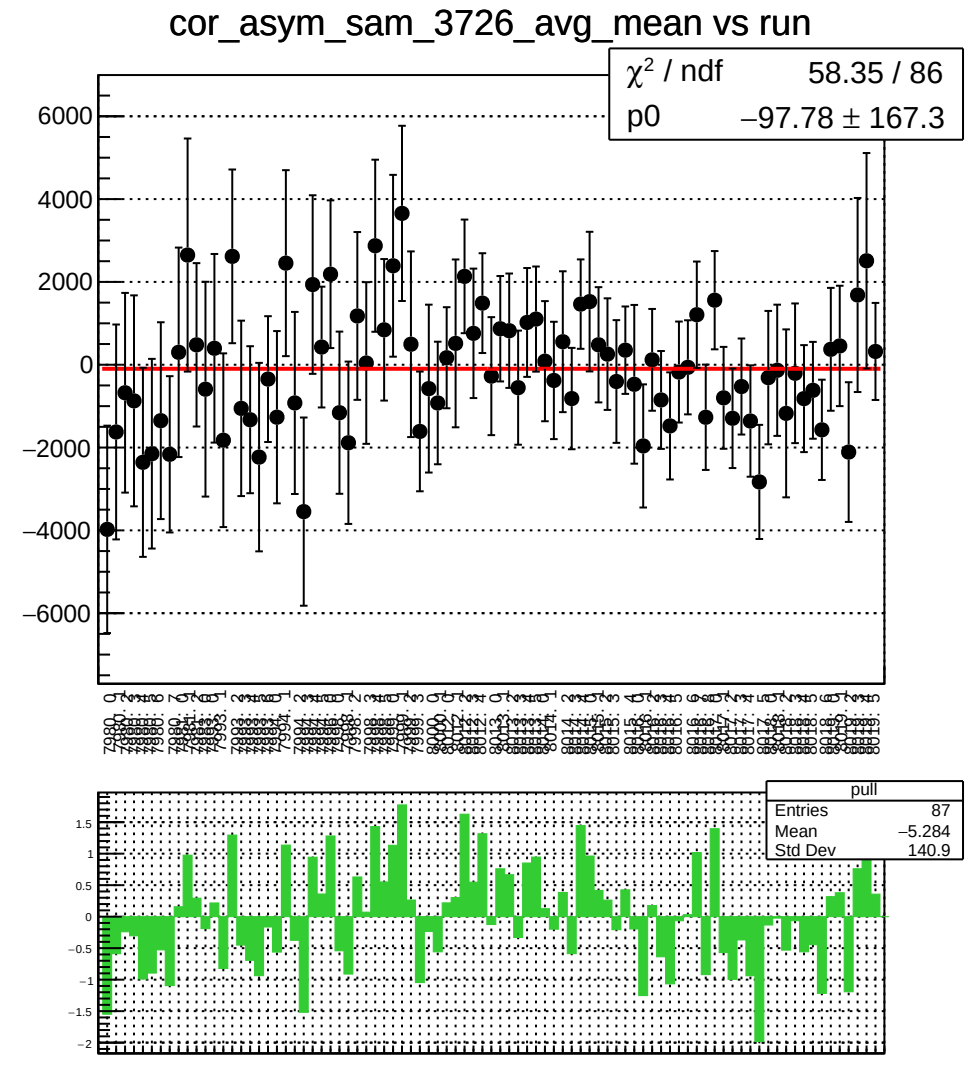

pull1D
Entries 87
Mean −0.006822
Std Dev 0.819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

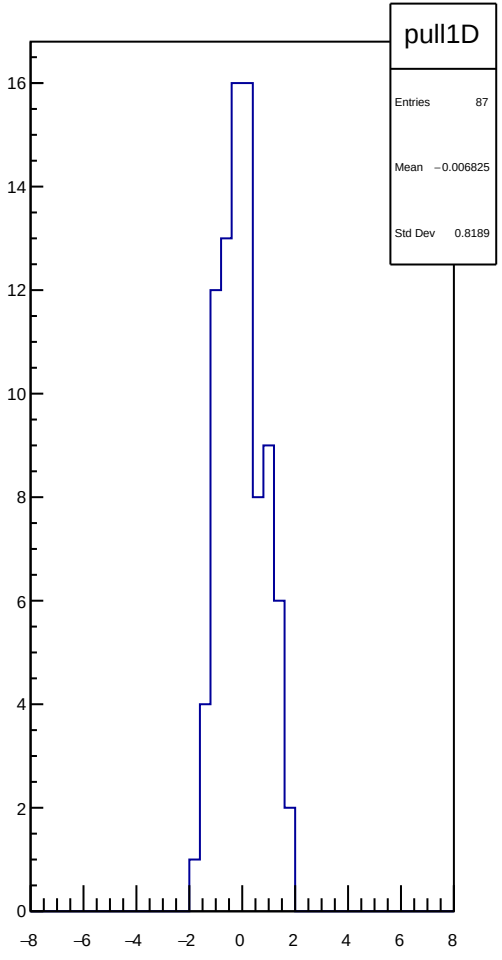

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.085e+05 / 86
p0 152.1 ± 0.1183
300
250
200
150
100

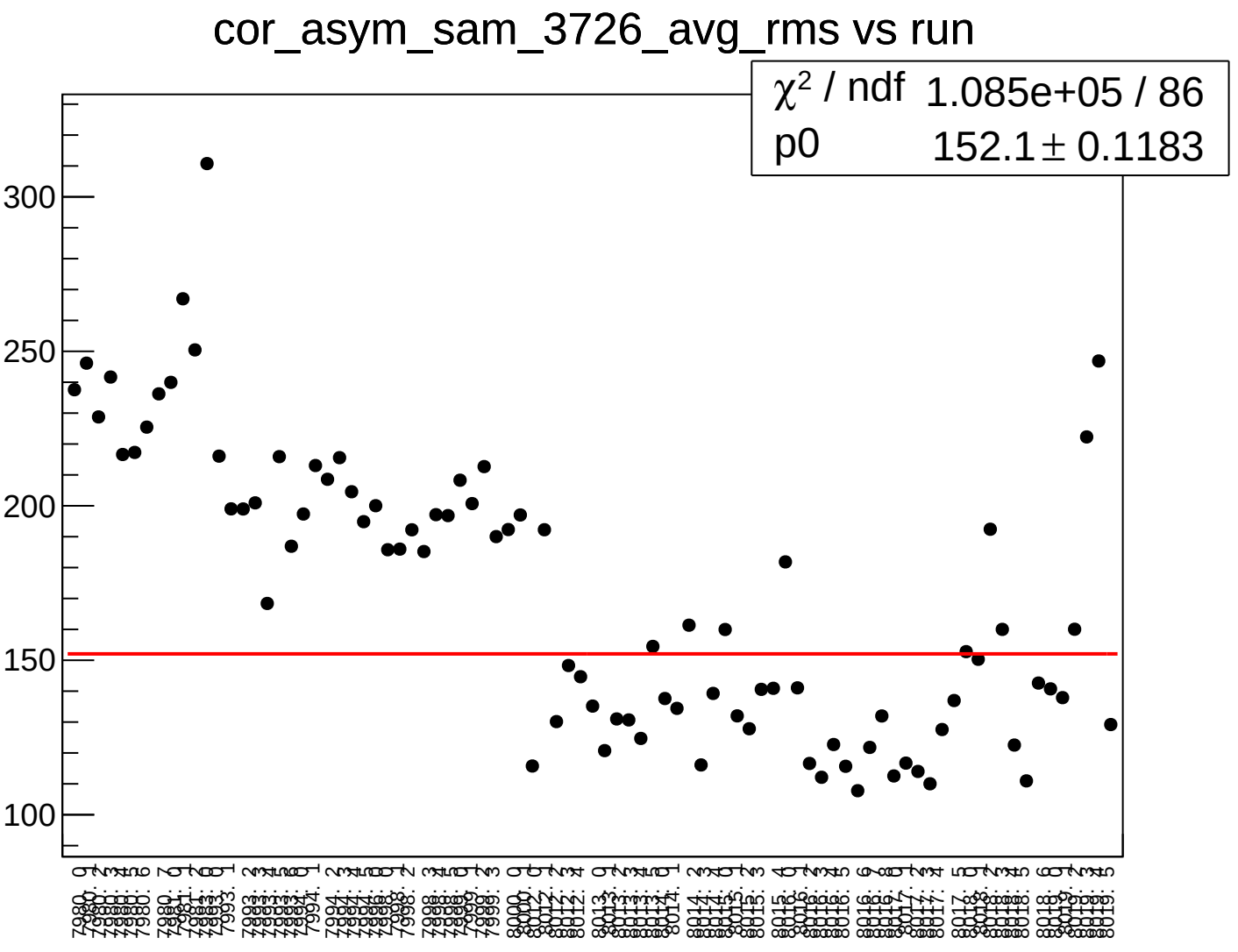

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 115.2 / 86
p0 1792 ± 1451
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −17.7
Std Dev 7.758
3
2
1
0
−1
−2
−3

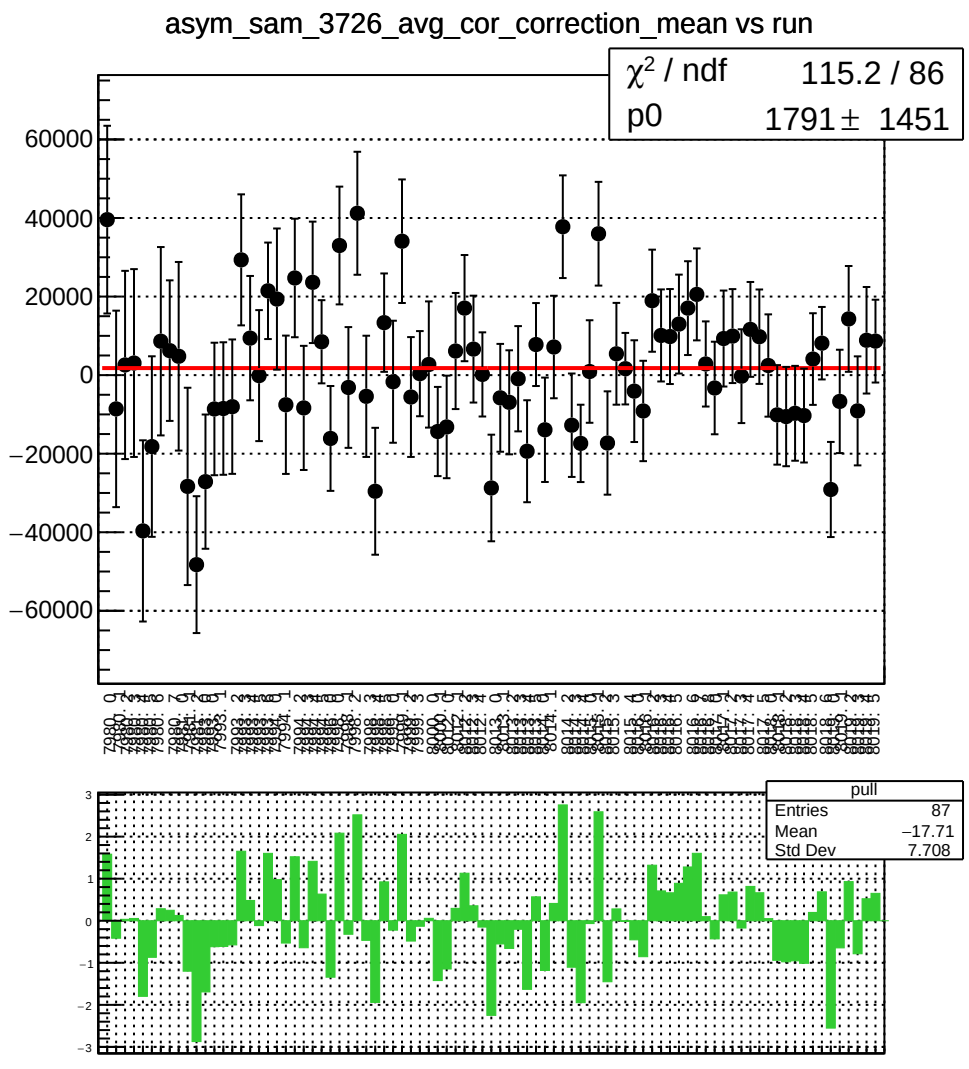

pull1D
Entries 87
Mean −0.01602
Std Dev 1.151
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

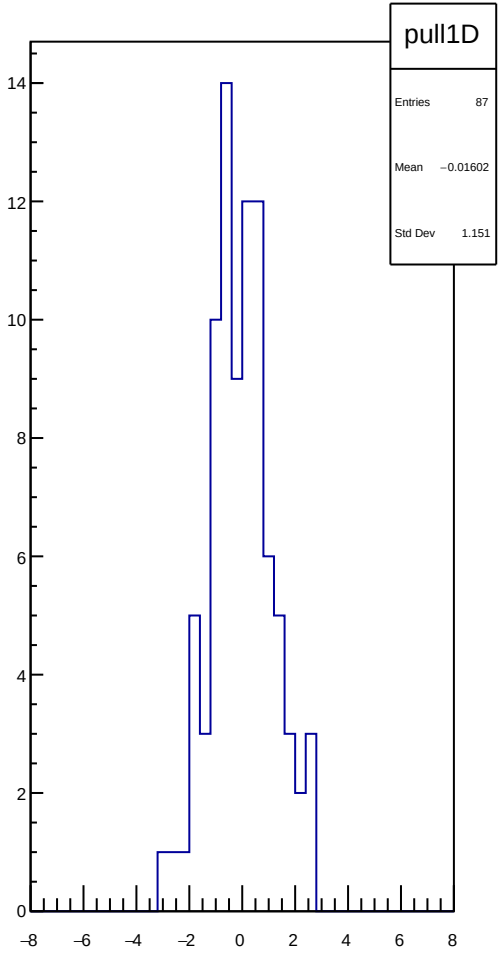

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 6.288e+04 / 86
p0 1337 ± 1.026
2400
2200
2000
1800
1600
1400
1200
1000

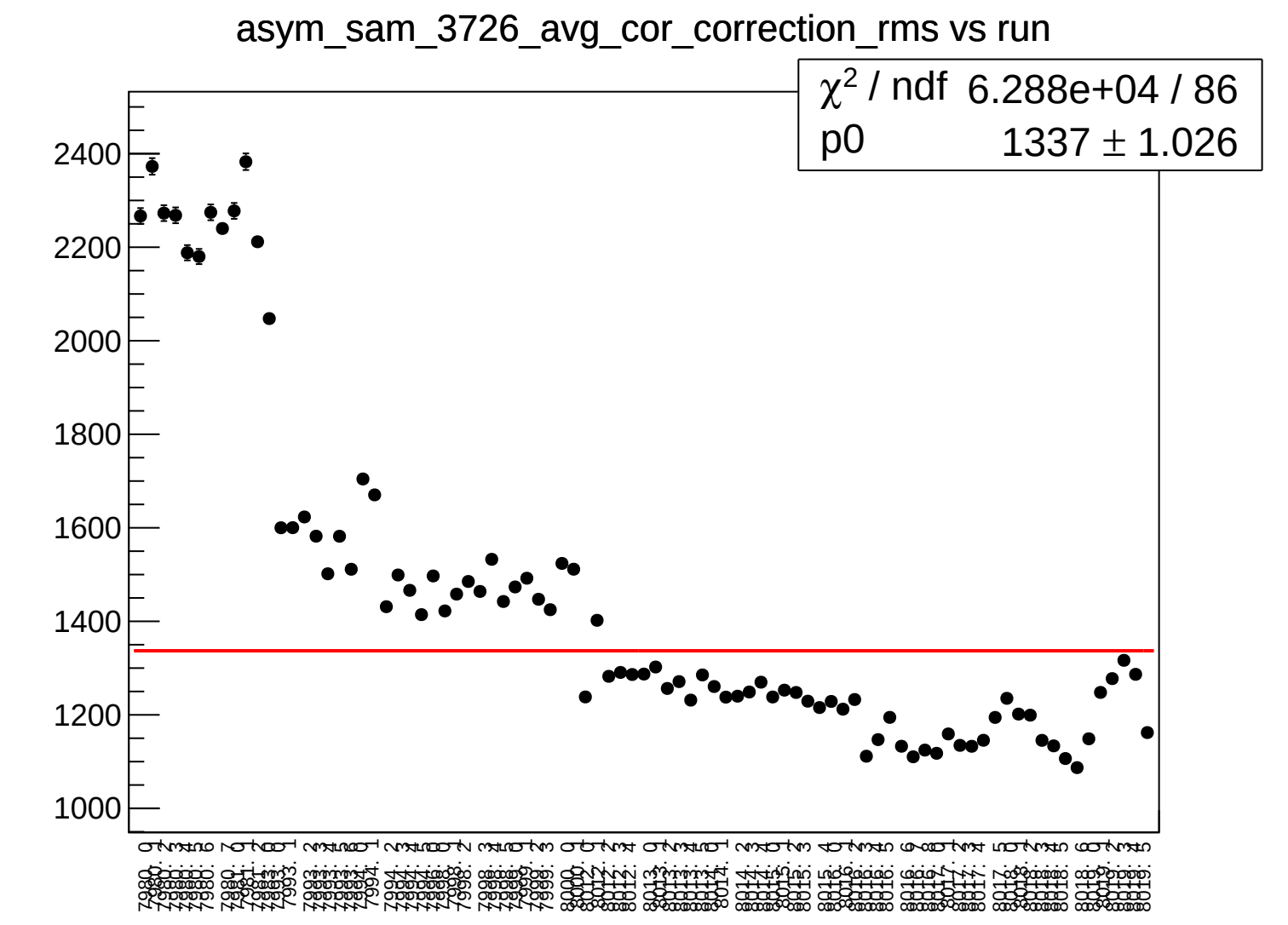

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 58.35 / 86
p0 −97.78 ± 167.3
pull
Entries 87
Mean −5.284
Std Dev 140.9

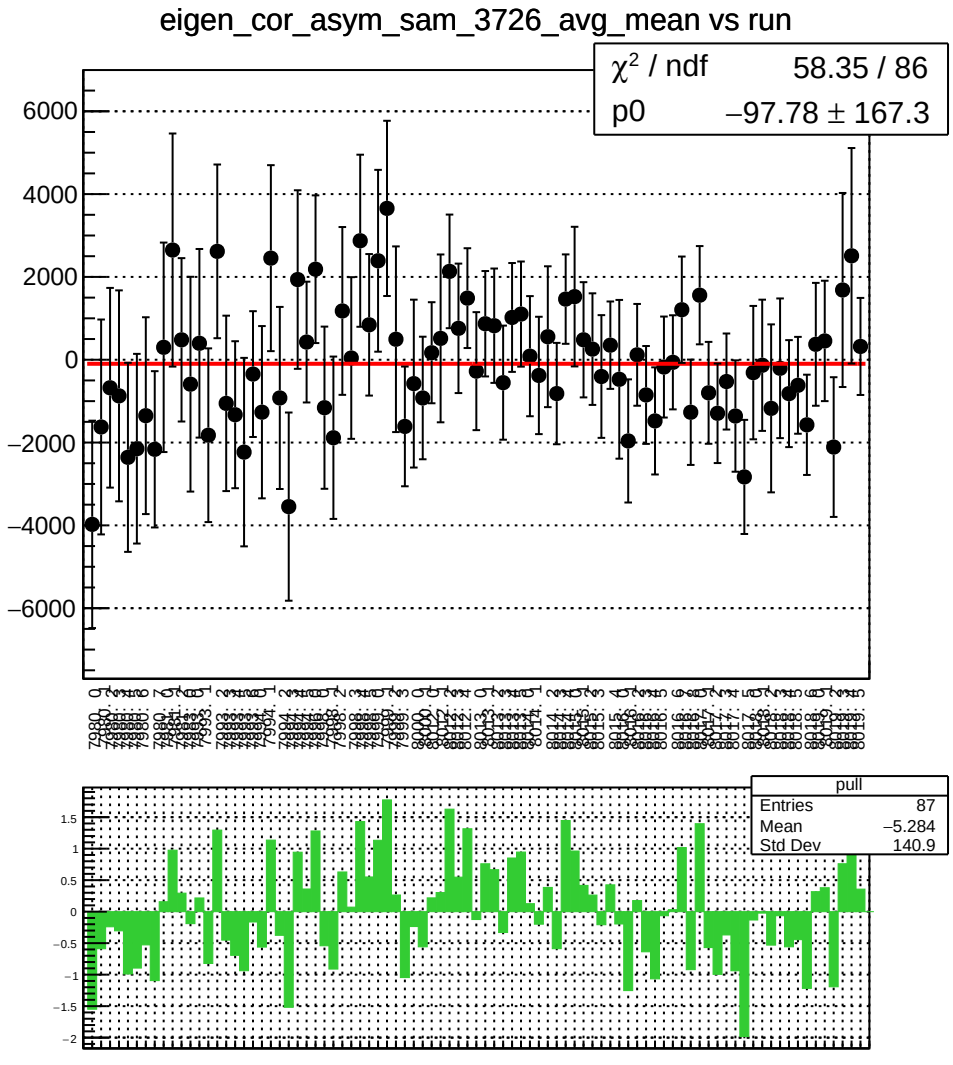

pull1D
Entries 87
Mean −0.006825
Std Dev 0.8189

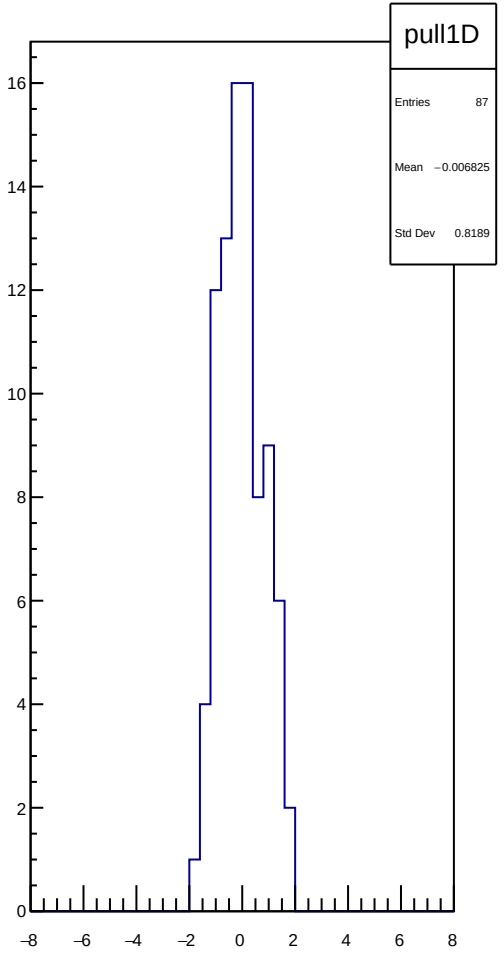

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.085e+05 / 86
p0 152.1 ± 0.1183
300
250
200
150
100

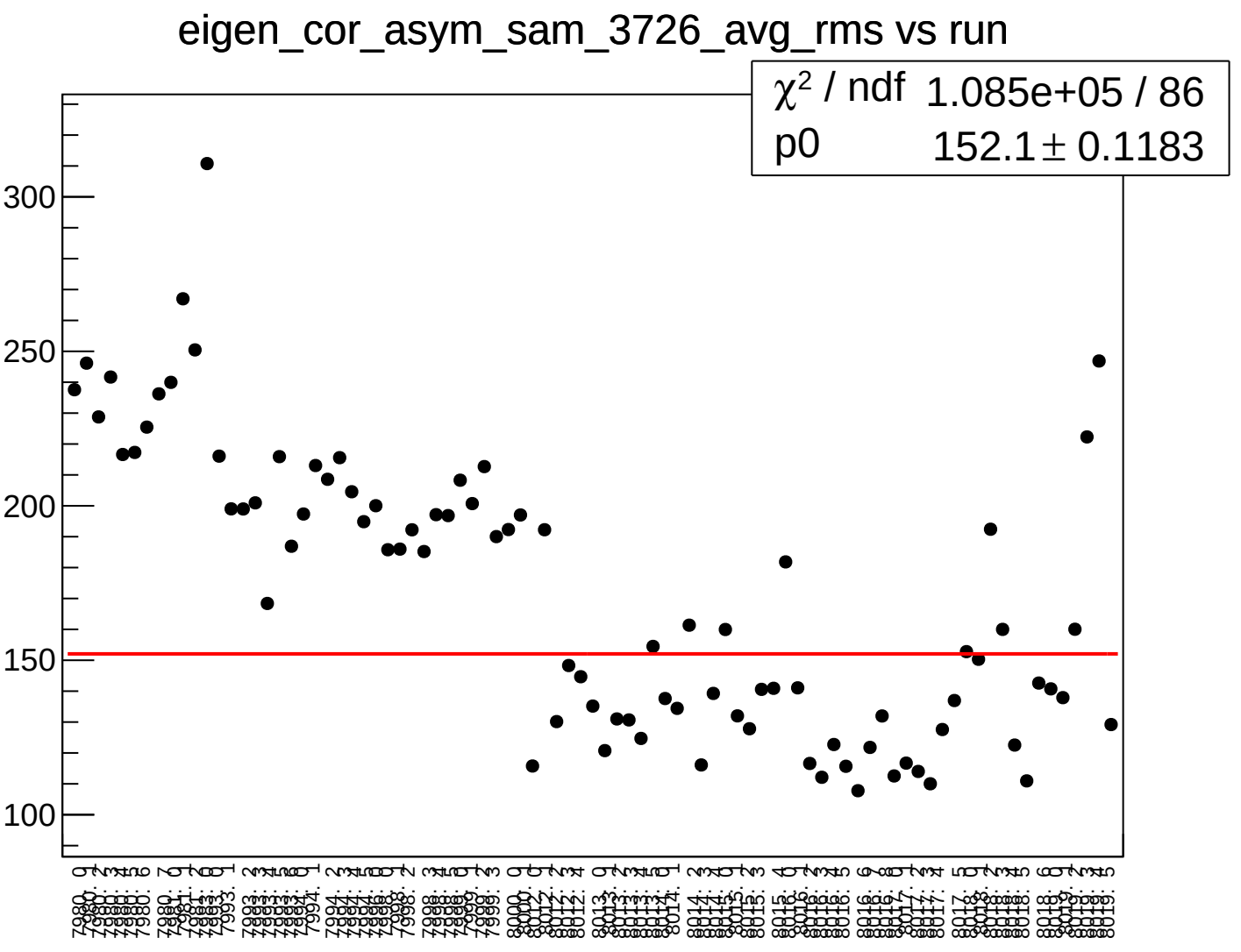

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 115.2 / 86
p0 1791 ± 1451
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −17.71
Std Dev 7.708
3
2
1
0
−1
−2
−3

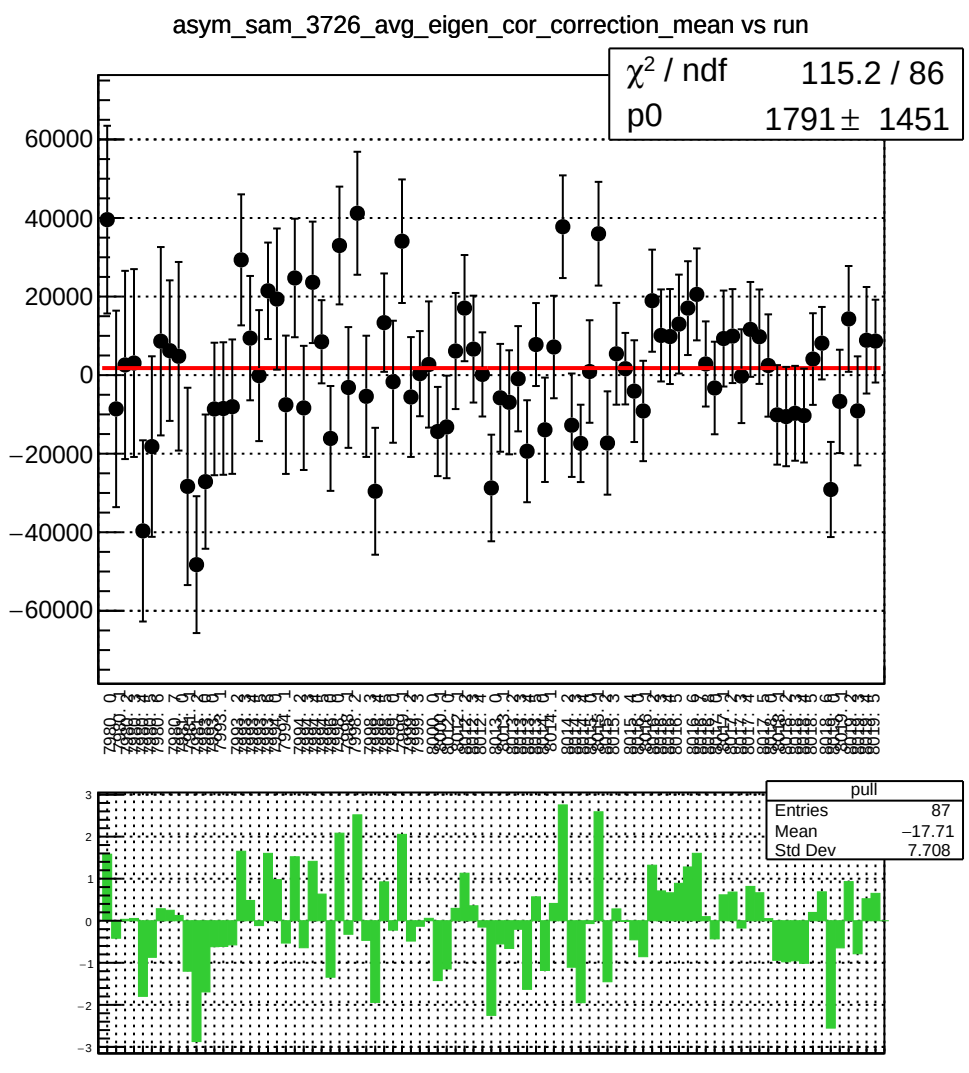

pull1D
Entries 87
Mean −0.01602
Std Dev 1.151
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

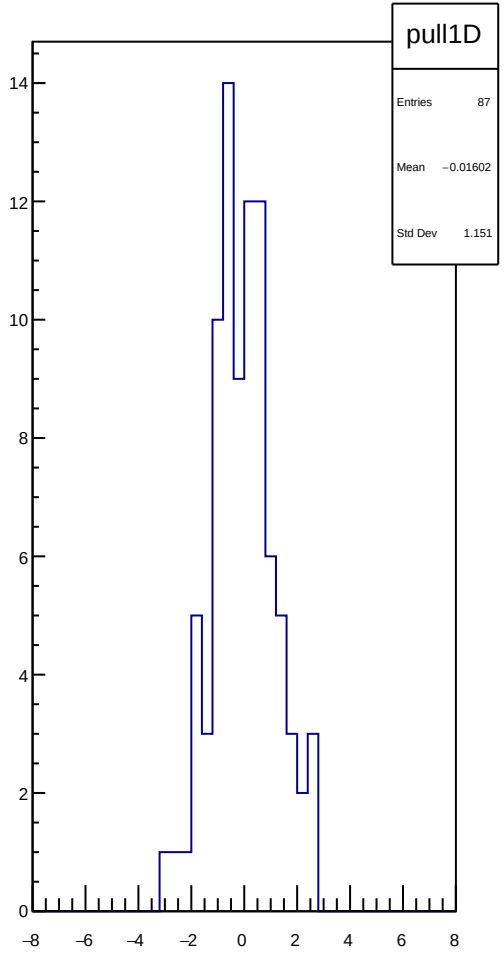

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 6.288e+04 / 86
p0 1337 ± 1.026
2400
2200
2000
1800
1600
1400
1200
1000


eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 58.35 / 86
p0 −97.78 ± 167.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −5.284
Std Dev 140.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 87
Mean −0.006825
Std Dev 0.8189
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 1.085e+05 / 86
p0 152.1 ± 0.1183
300
250
200
150
100


asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 115.2 / 86
p0 1791 ± 1451
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −17.71
Std Dev 7.708
3
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean −0.01602
Std Dev 1.151
14
12
10
8
6
4
2
0
−8
−6
−4
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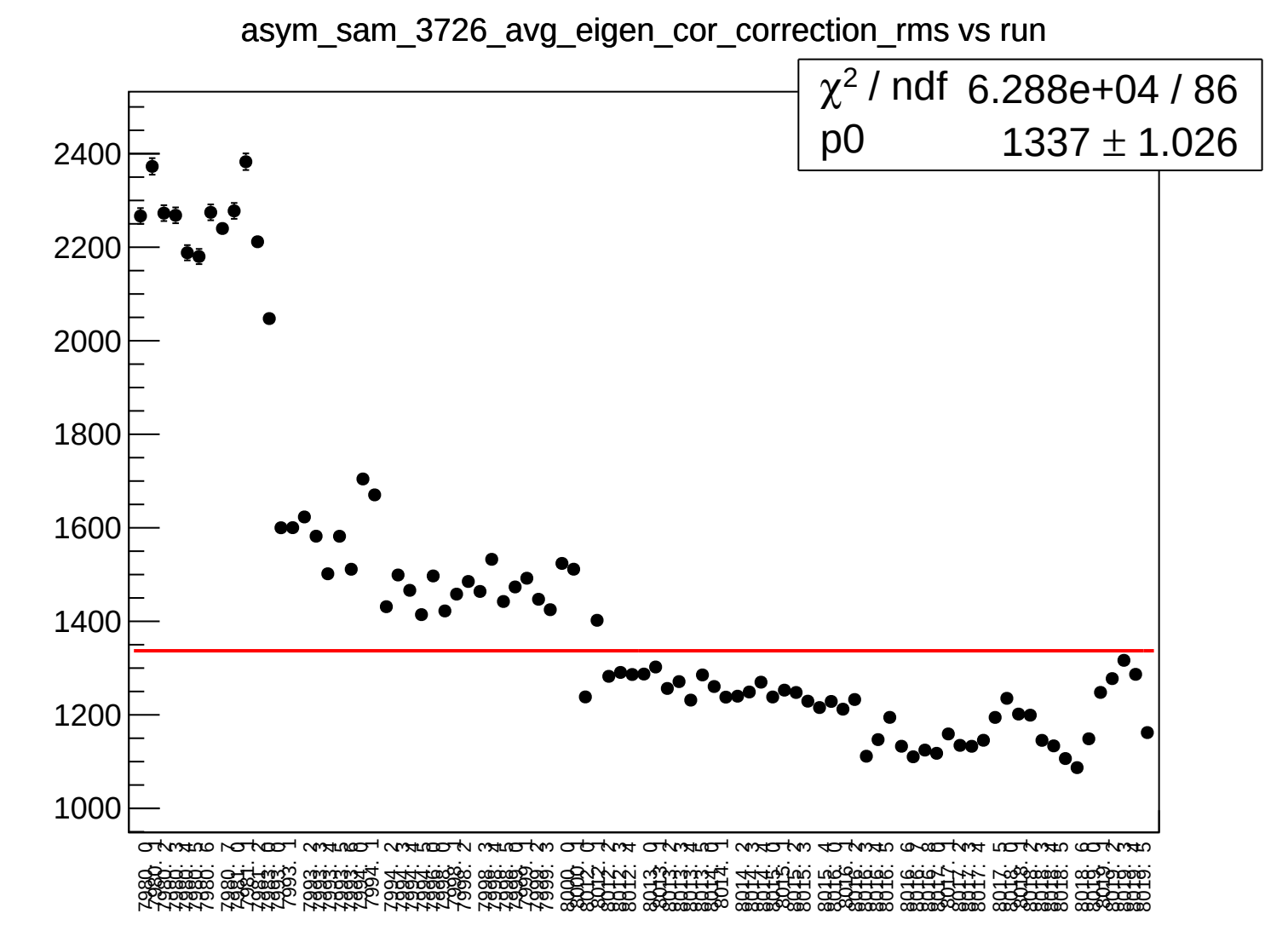
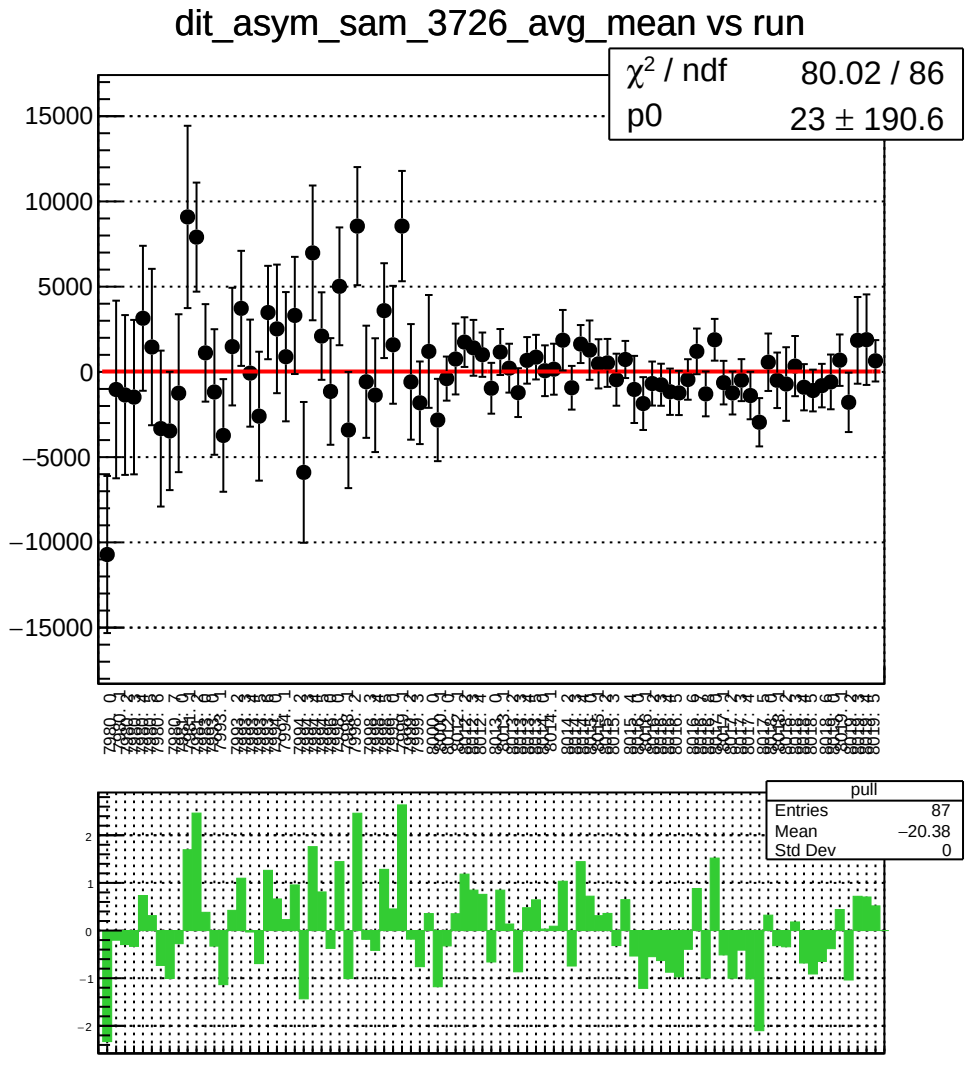
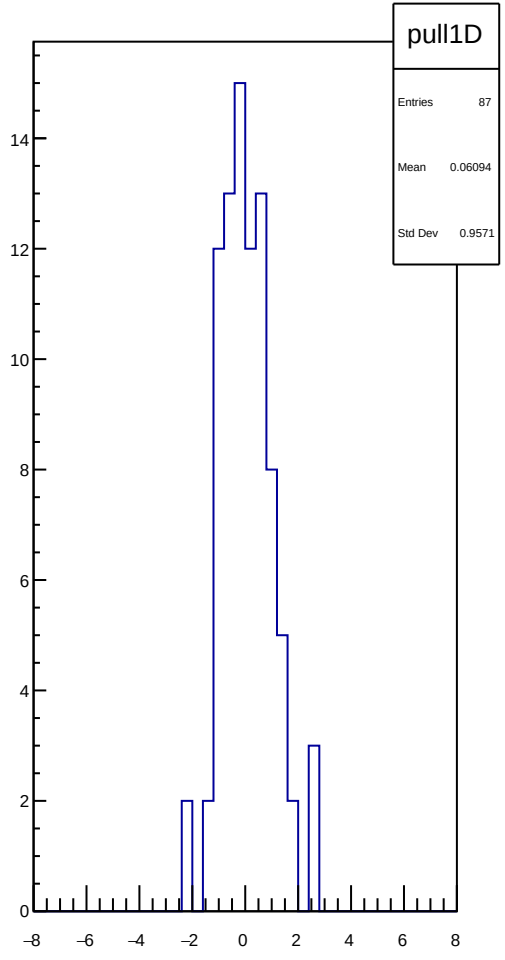
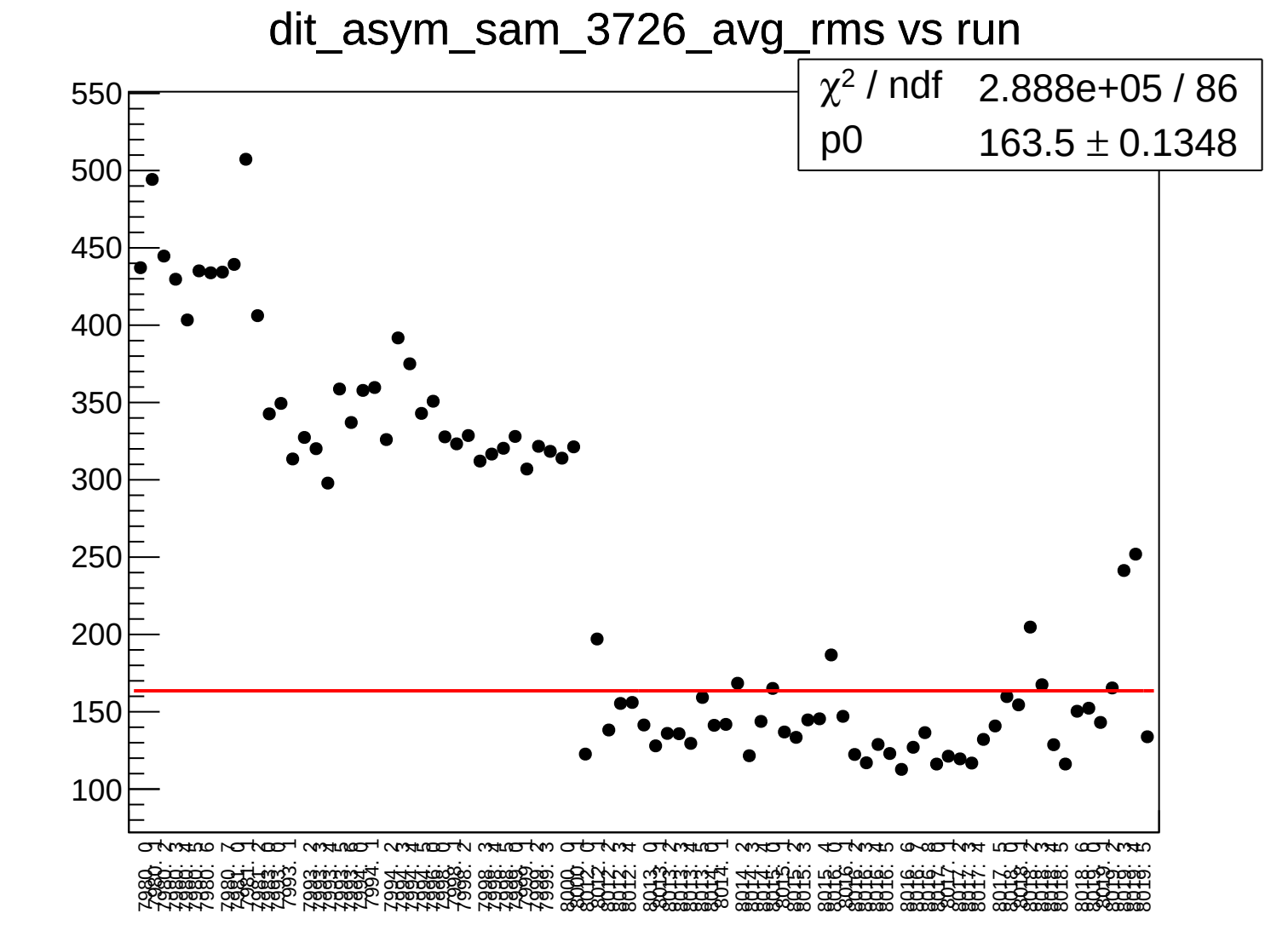
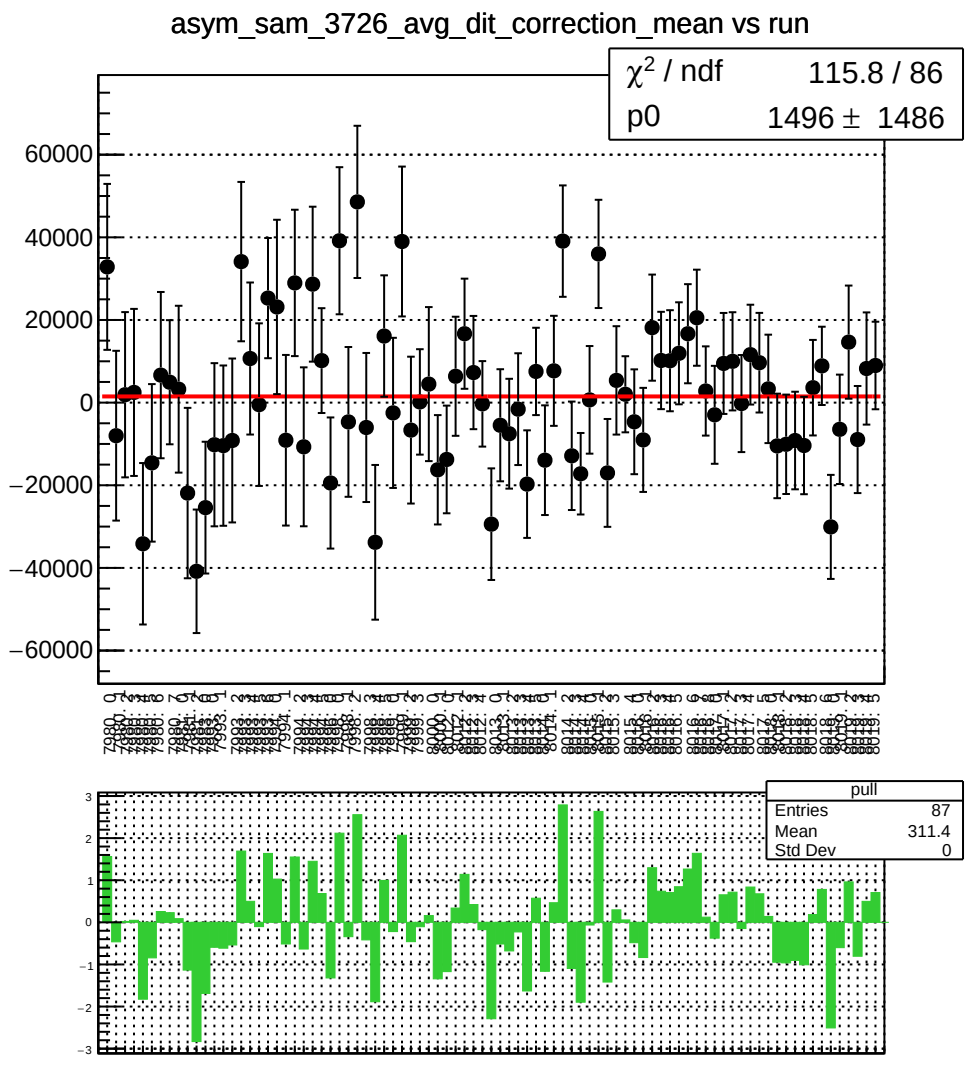
2
4
6
8

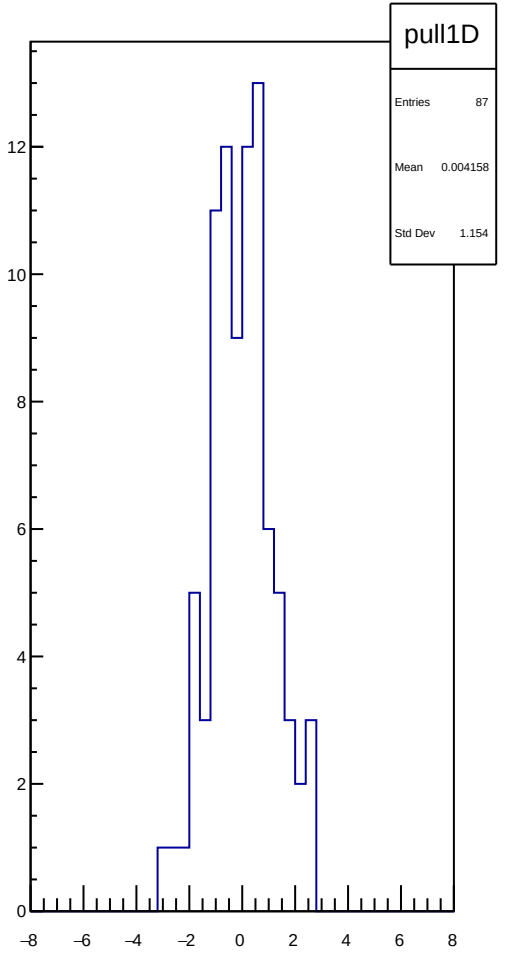

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.288e+04 / 86
p0 1337 ± 1.026
2400
2200
2000
1800
1600
1400
1200
1000

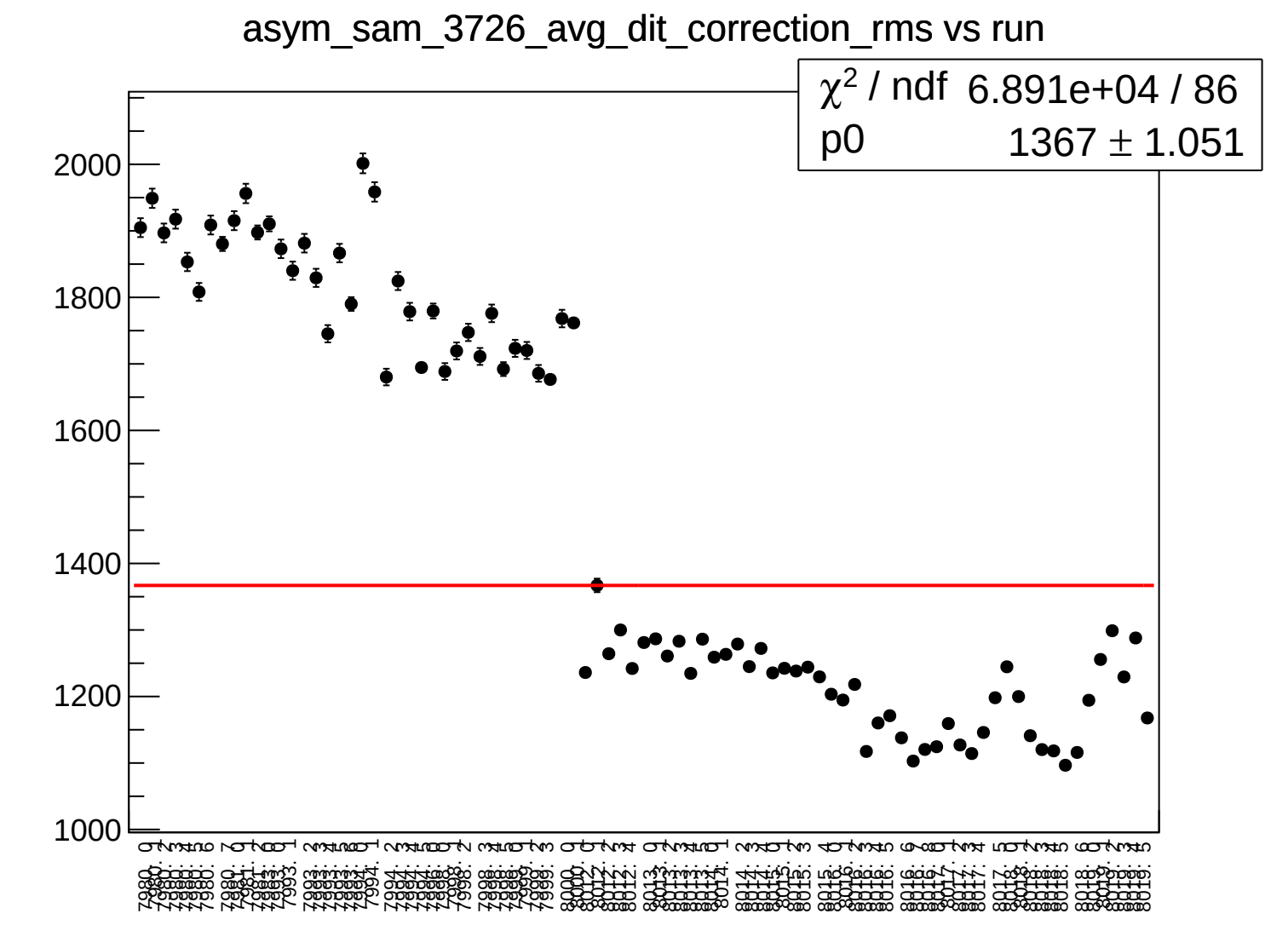

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 80.02 / 86
p0 23 ± 190.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −20.38
Std Dev 0
2
1
0
−1
−2

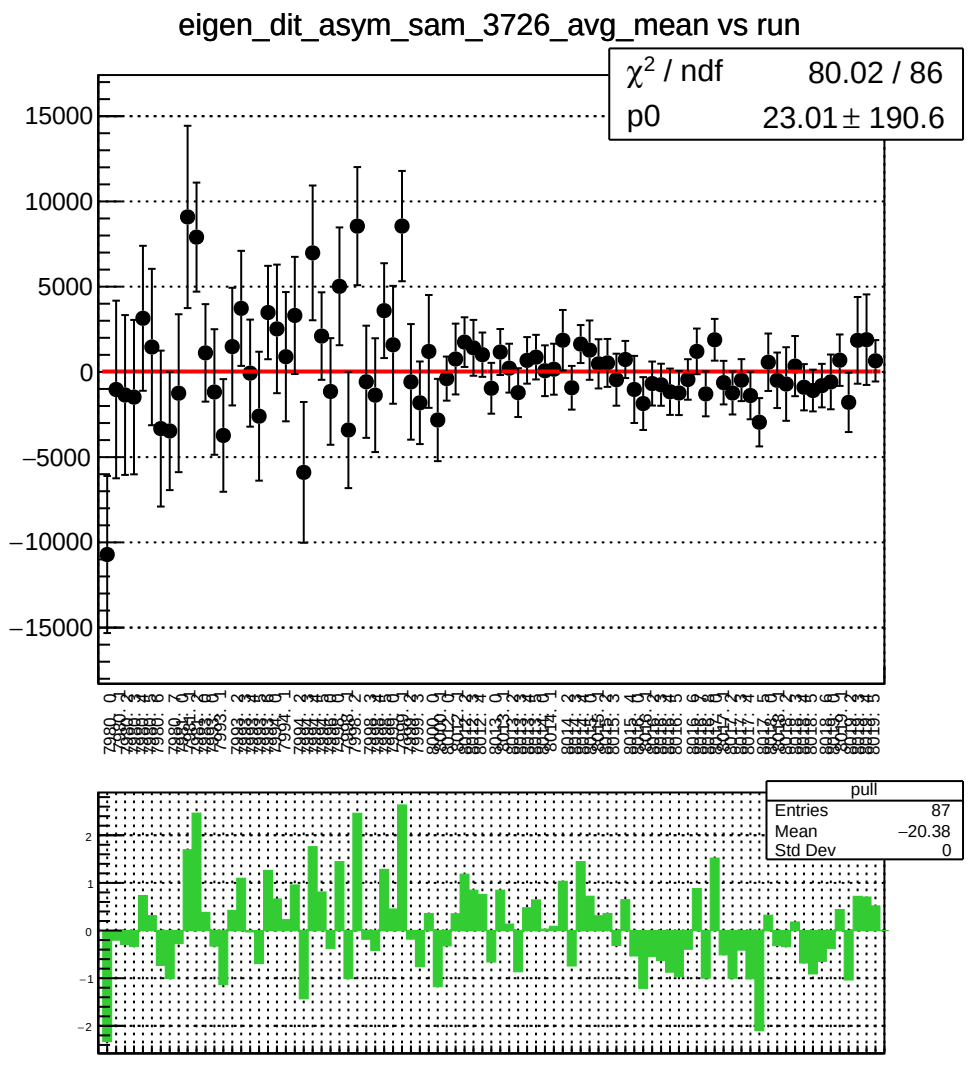

pull1D
Entries 87
Mean 0.06094
Std Dev 0.9571
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

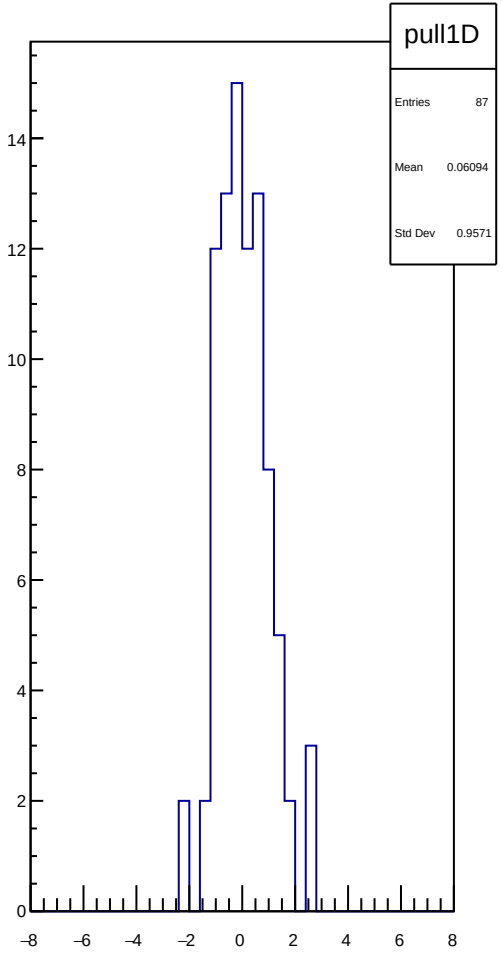

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.888e+05 / 86
p0 163.5 ± 0.1348
550
500
450
400
350
300
250
200
150
100

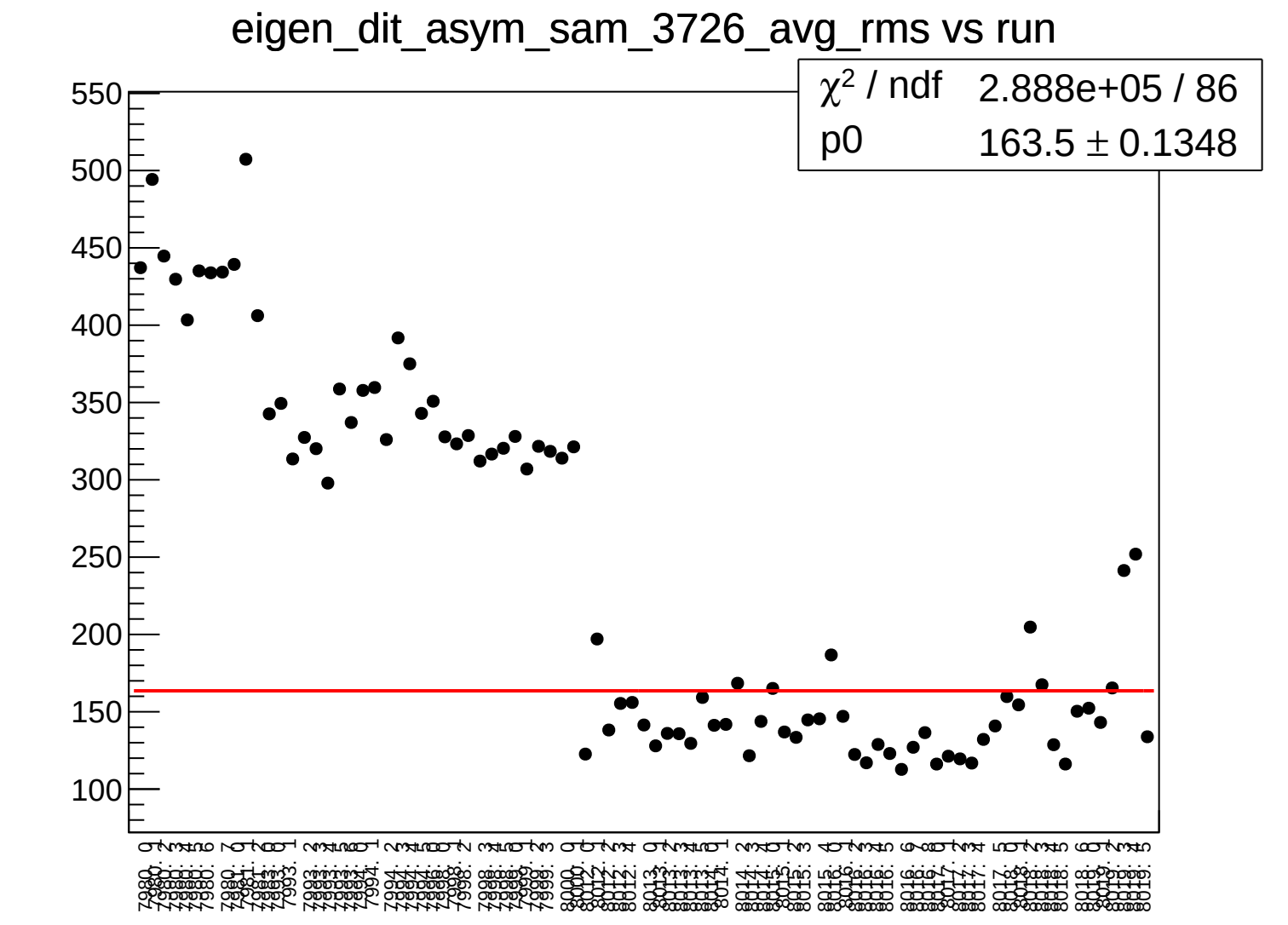

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 115.8 / 86
p0 1496 ± 1486
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 311.4
Std Dev 0
3
2
1
0
−1
−2
−3

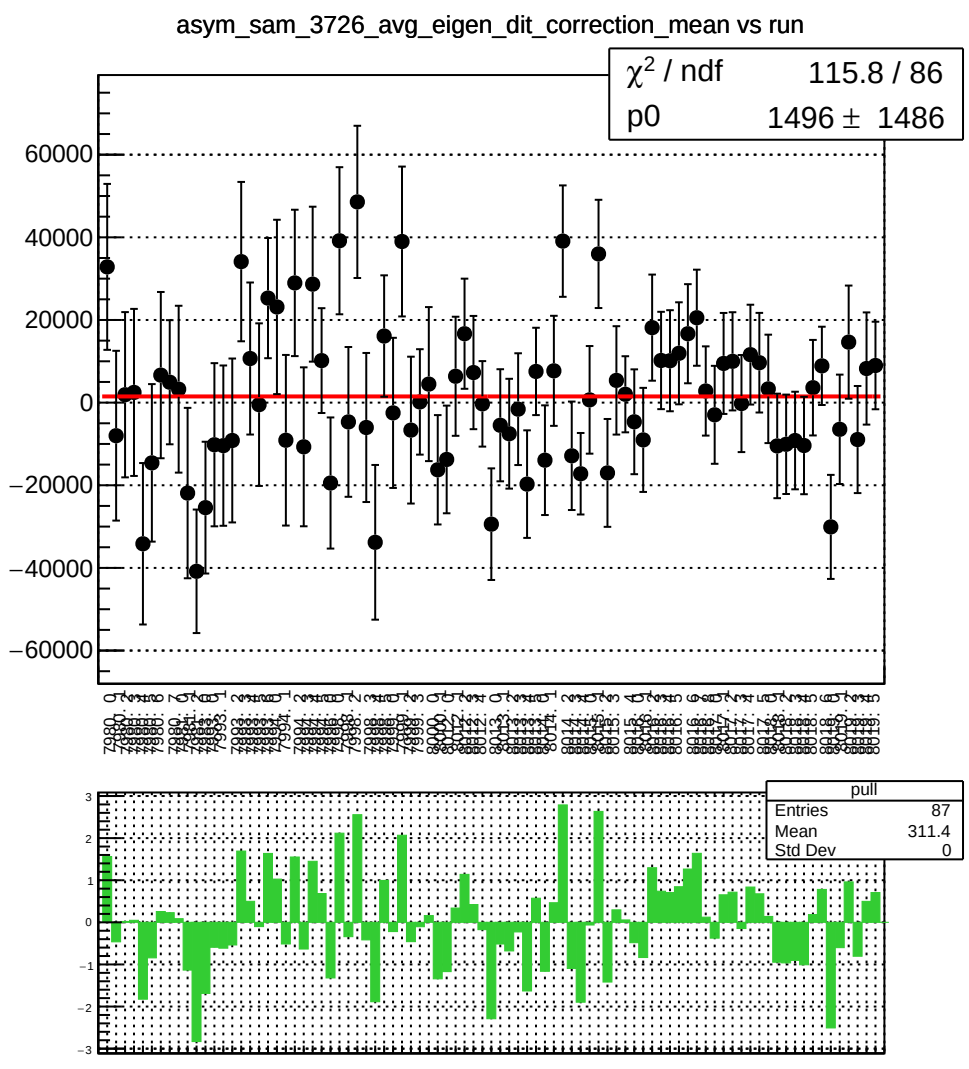

pull1D
Entries 87
Mean 0.004158
Std Dev 1.154
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

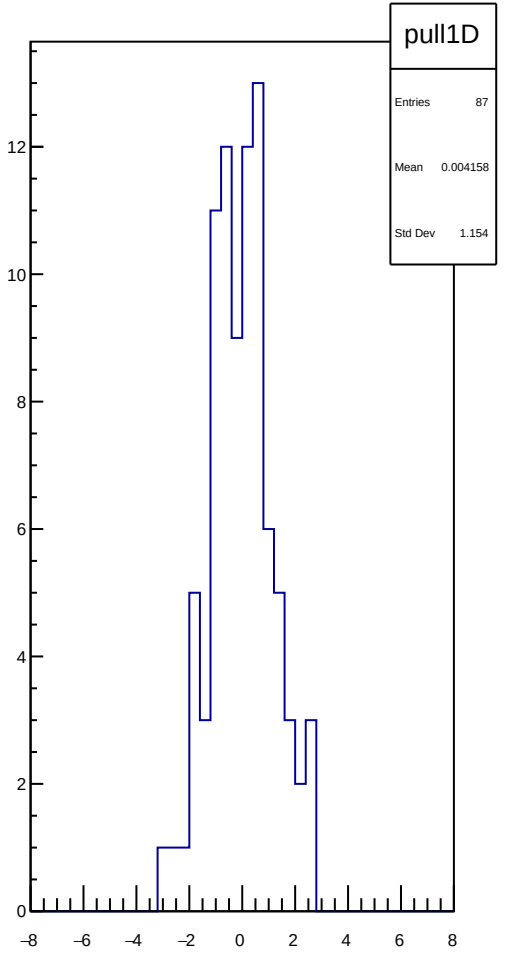

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 6.891e+04 / 86
p0 1367 ± 1.051
2000
1800
1600
1400
1200
1000

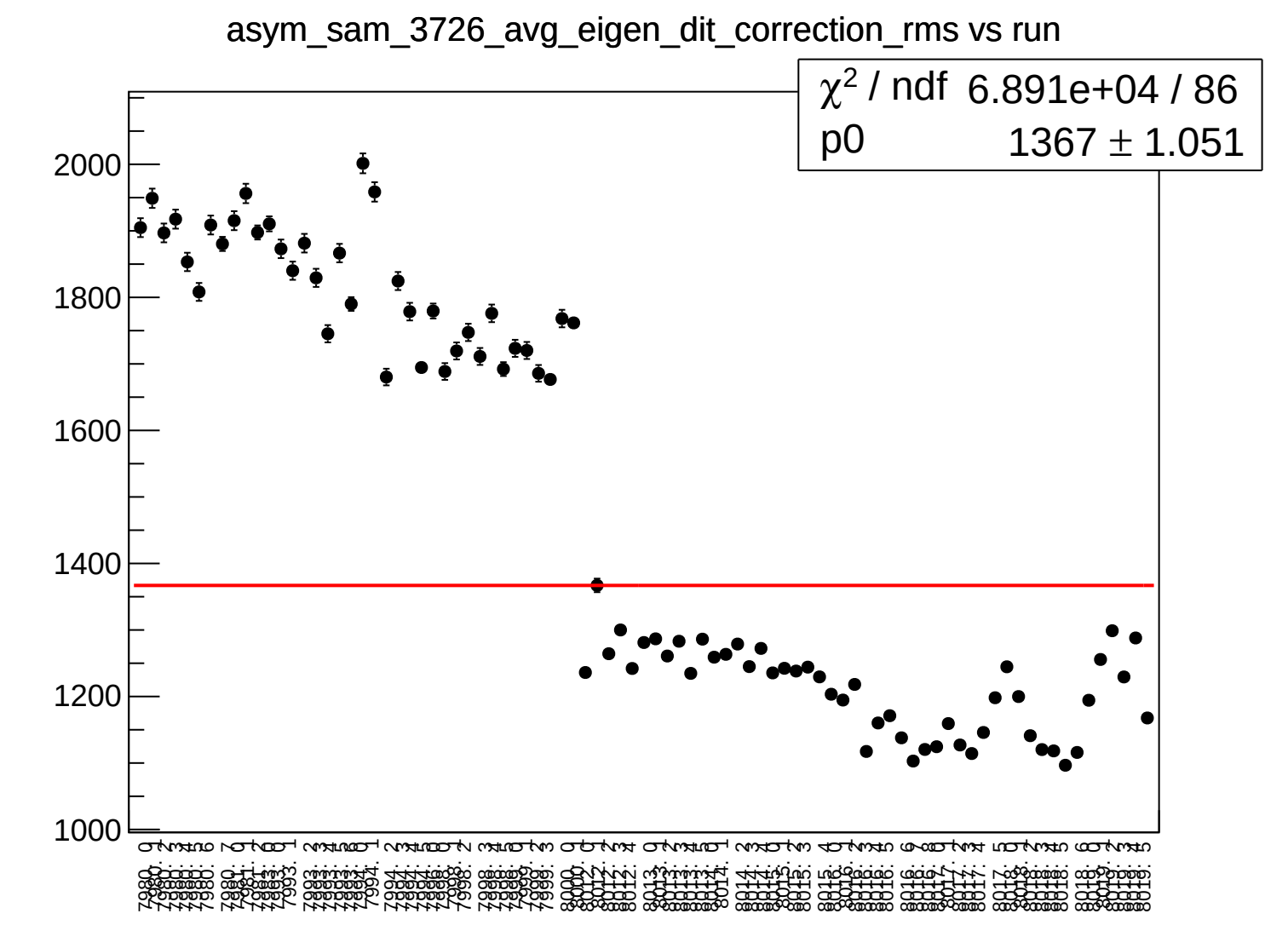

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 80.02 / 86
p0 23.01 ± 190.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −20.38
Std Dev 0
2
1
0
−1
−2

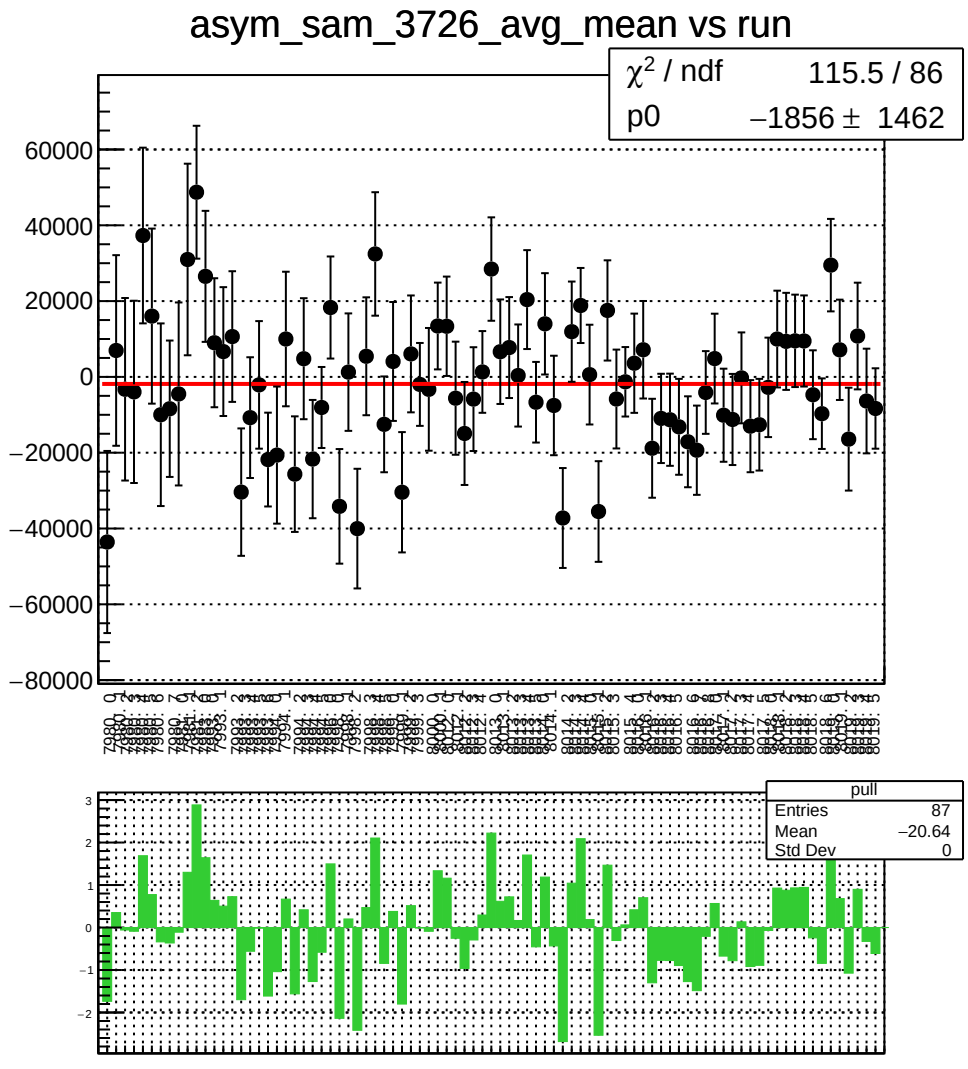

pull1D
Entries 87
Mean 0.06094
Std Dev 0.9571
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

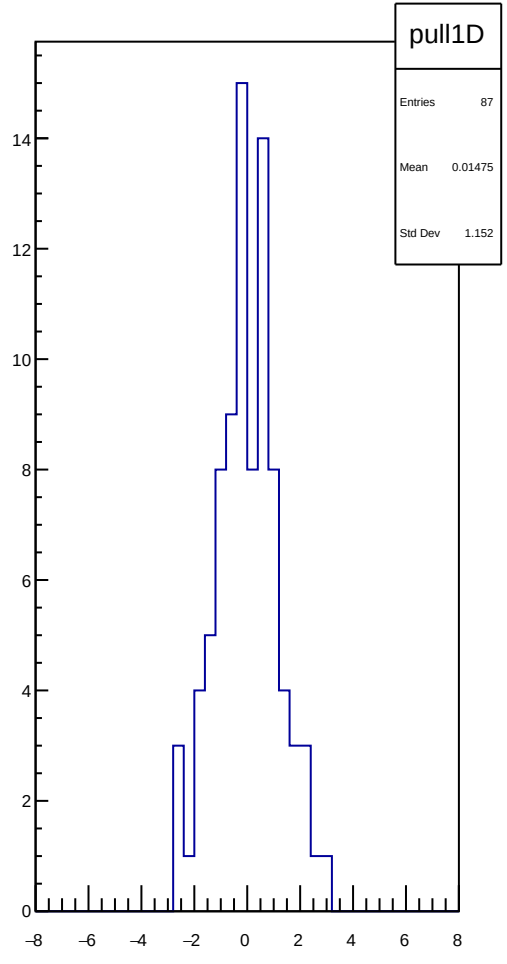

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 2.888e+05 / 86
p0 163.5 ± 0.1348
550
500
450
400
350
300
250
200
150
100

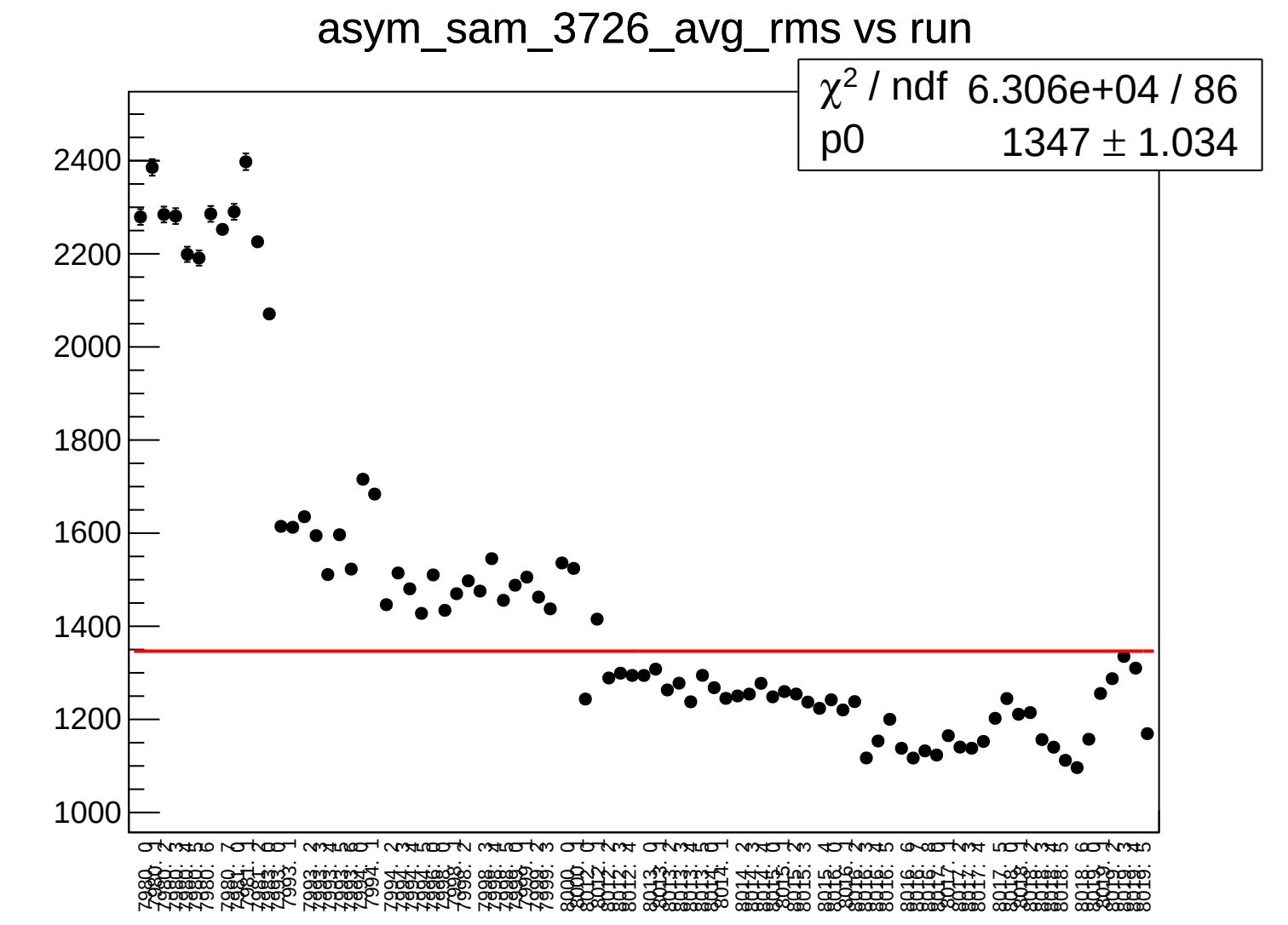

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 115.8 / 86
p0 1496 ± 1486
pull
Entries 87
Mean 311.4
Std Dev 0

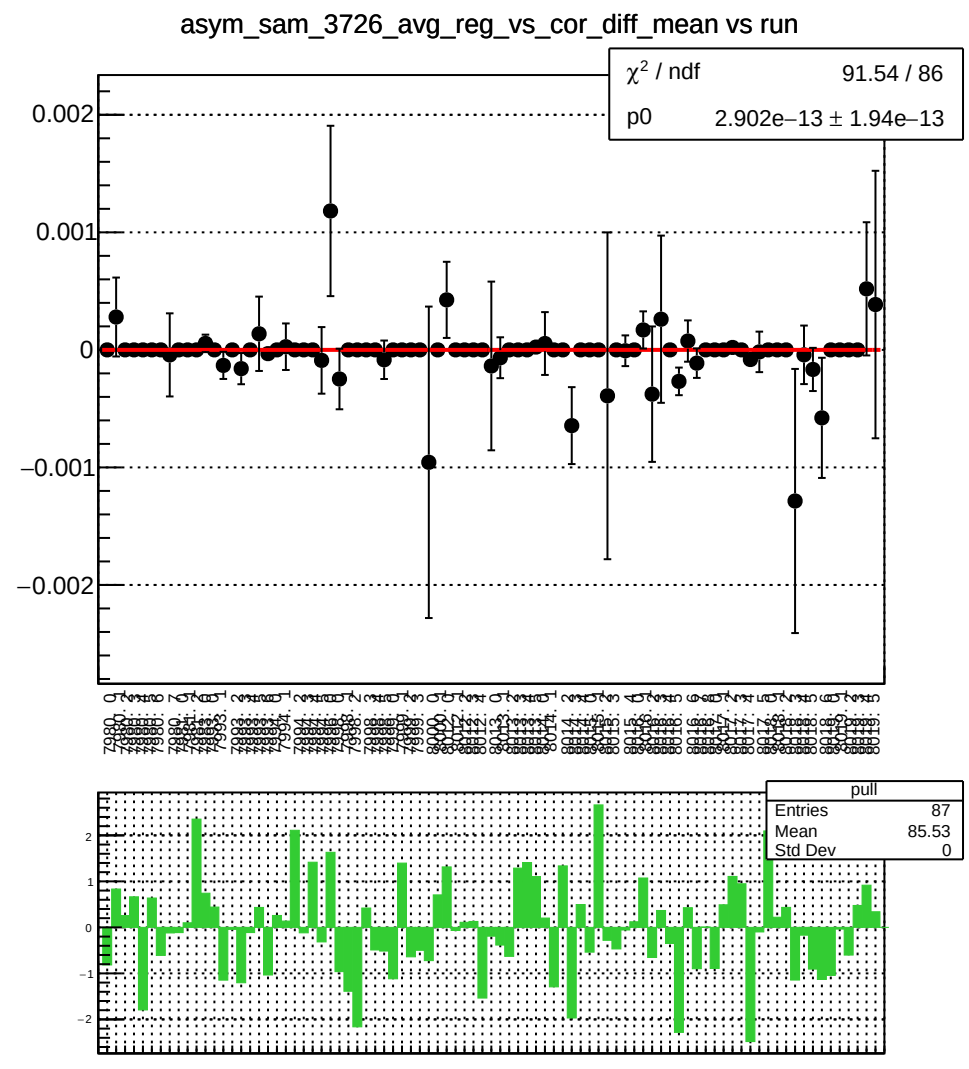

pull1D
Entries 87
Mean 0.004158
Std Dev 1.154

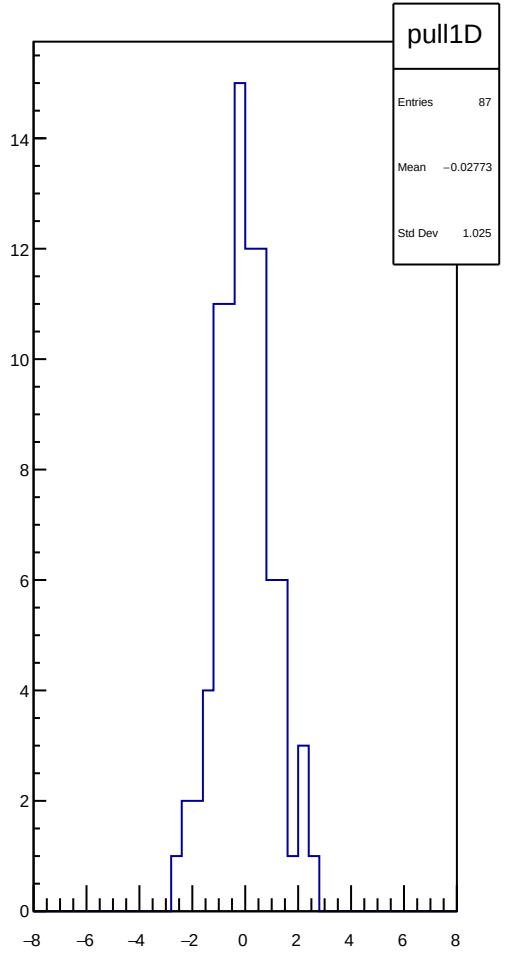

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.891e+04 / 86
p0 1367 ± 1.051
2000
1800
1600
1400
1200
1000

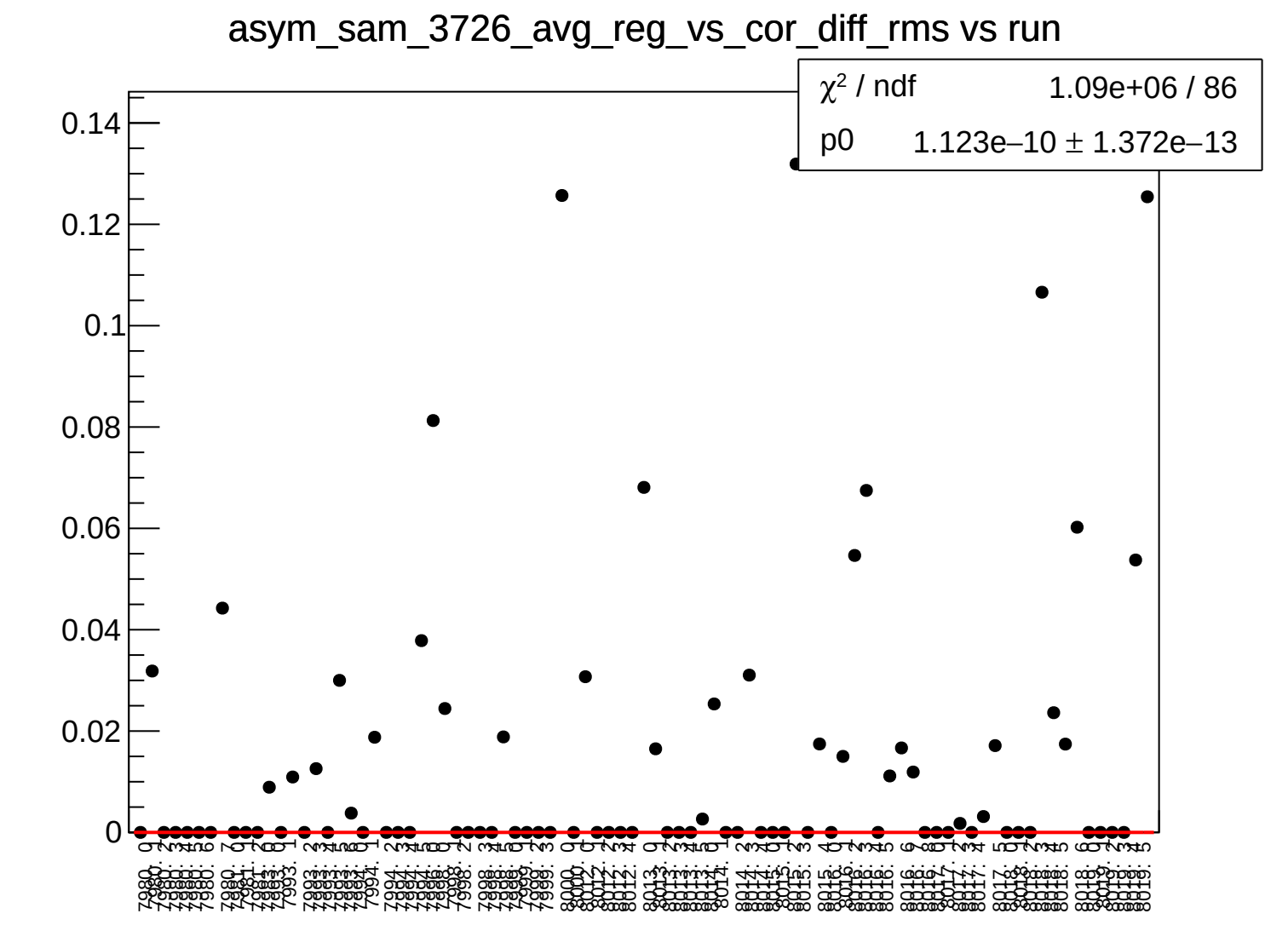

asym_sam_3726_avg_mean vs run
χ² / ndf 115.5 / 86
p0 −1856 ± 1462
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −20.64
Std Dev 0
3
2
1
0
−1
−2

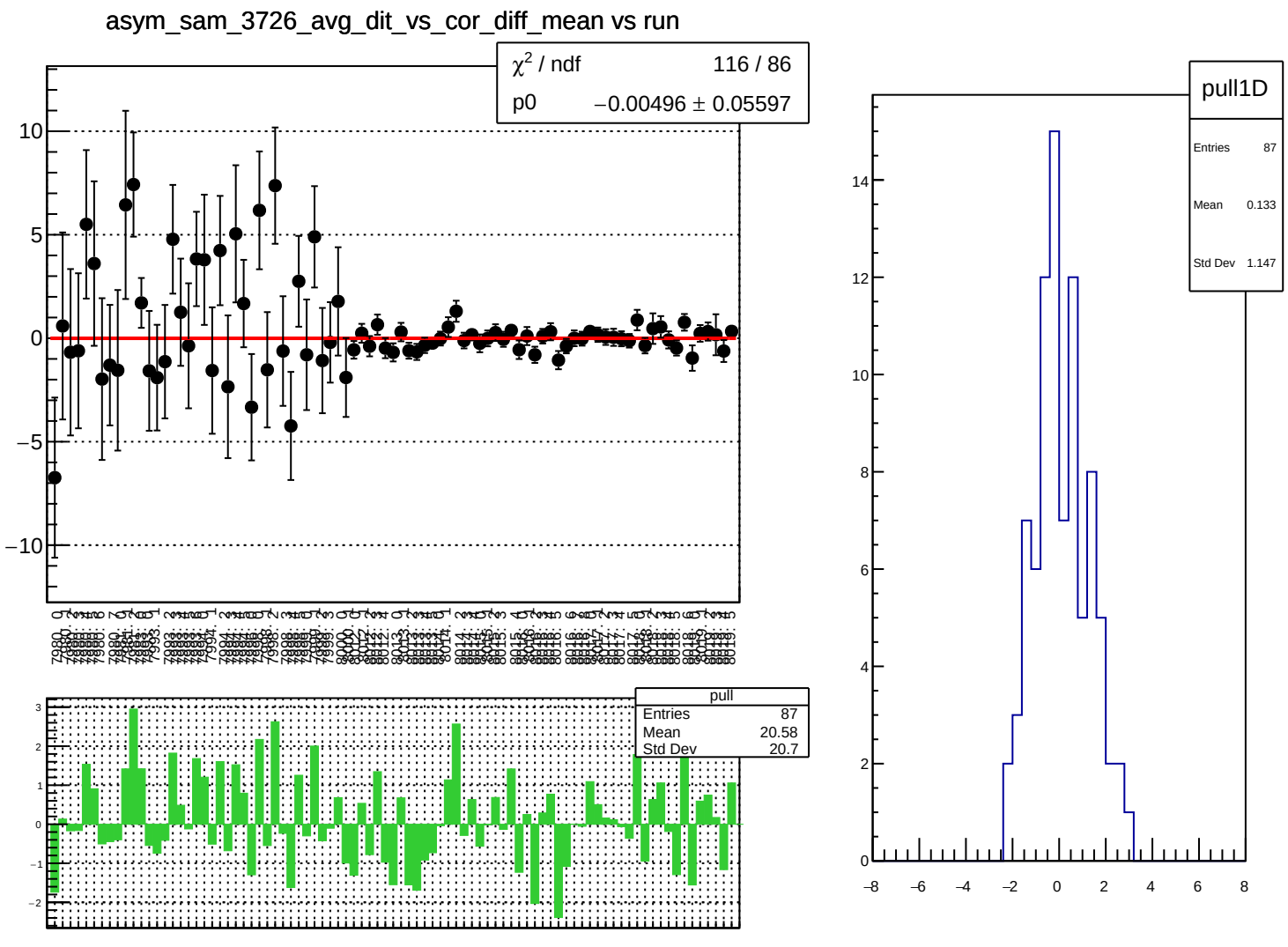

pull1D
Entries 87
Mean 0.01475
Std Dev 1.152
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

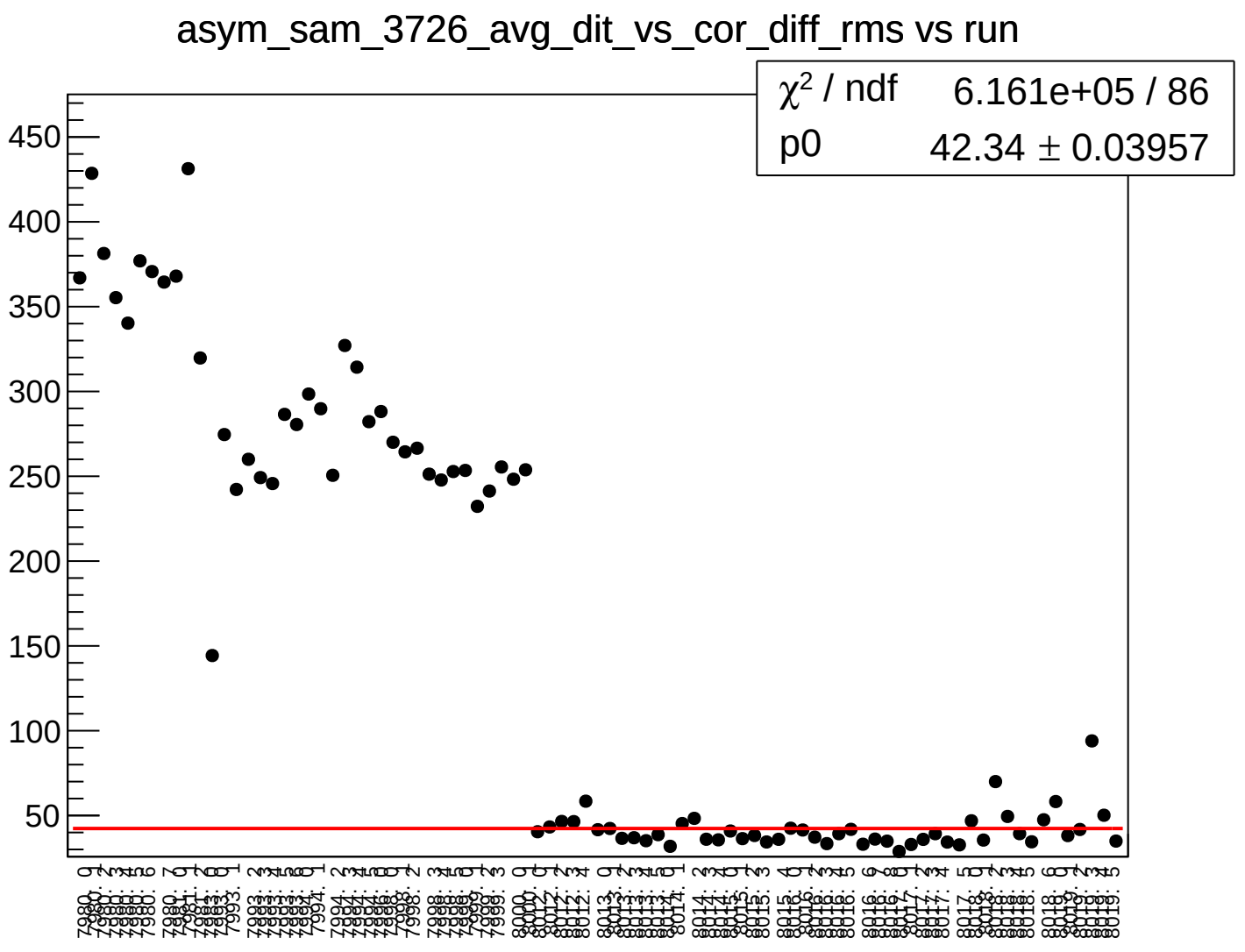

asym_sam_3726_avg_rms vs run
χ^2 / ndf 6.306e+04 / 86
p0 1347 ± 1.034
2400
2200
2000
1800
1600
1400
1200
1000

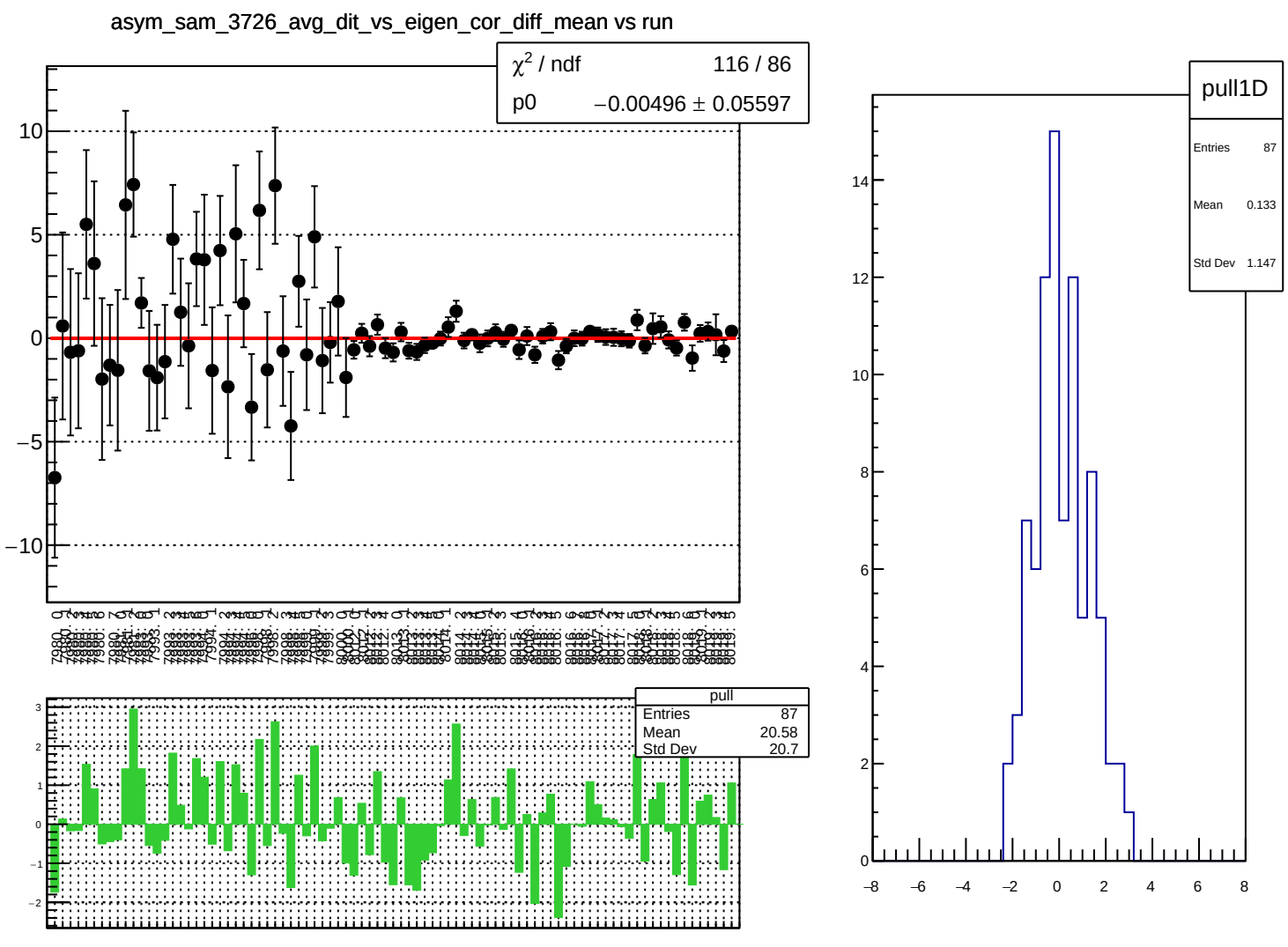

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.54 / 86
p0 2.902e−13 ± 1.94e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 87
Mean 85.53
Std Dev 0
2
1
0
−1
−2

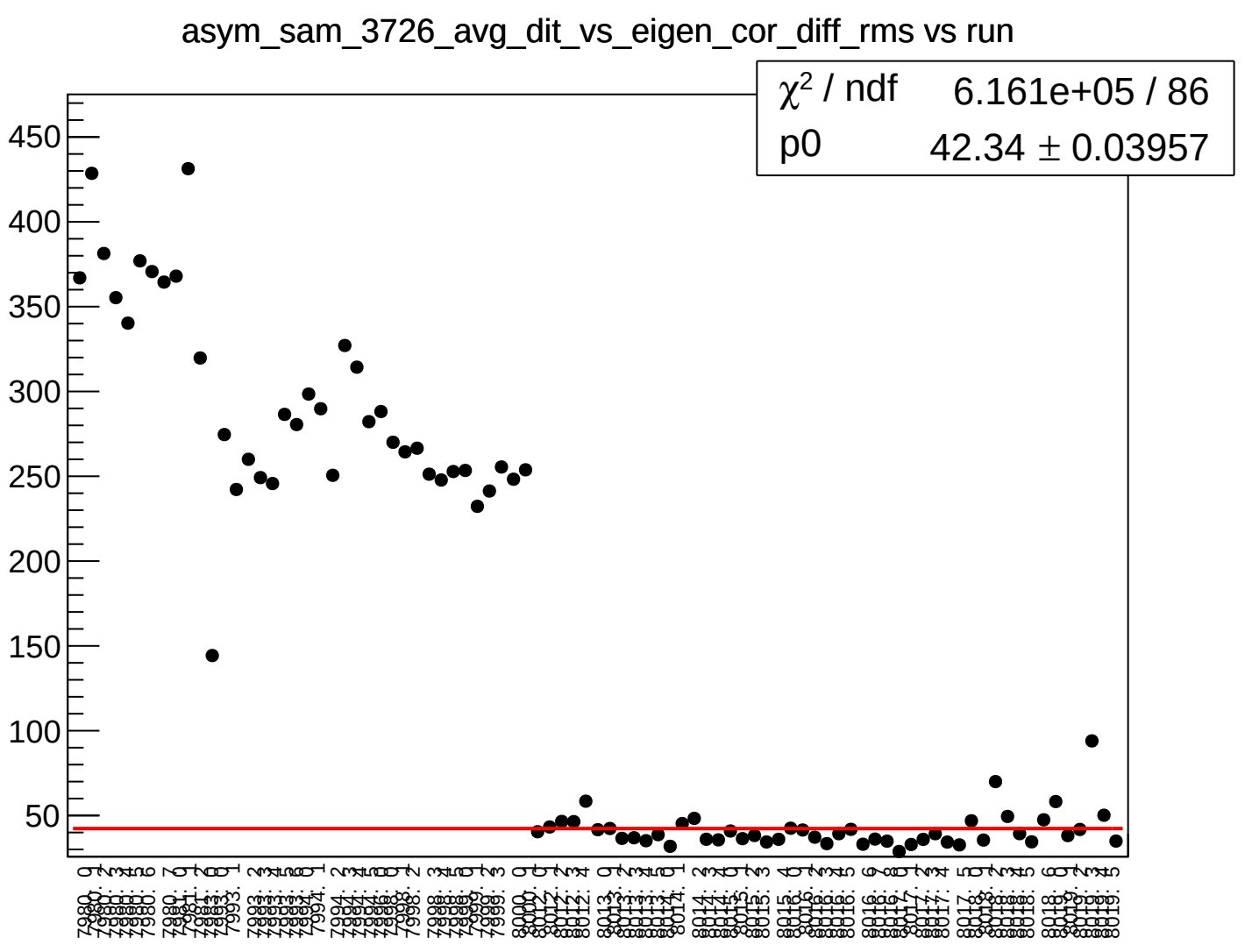

pull1D
Entries 87
Mean −0.02773
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

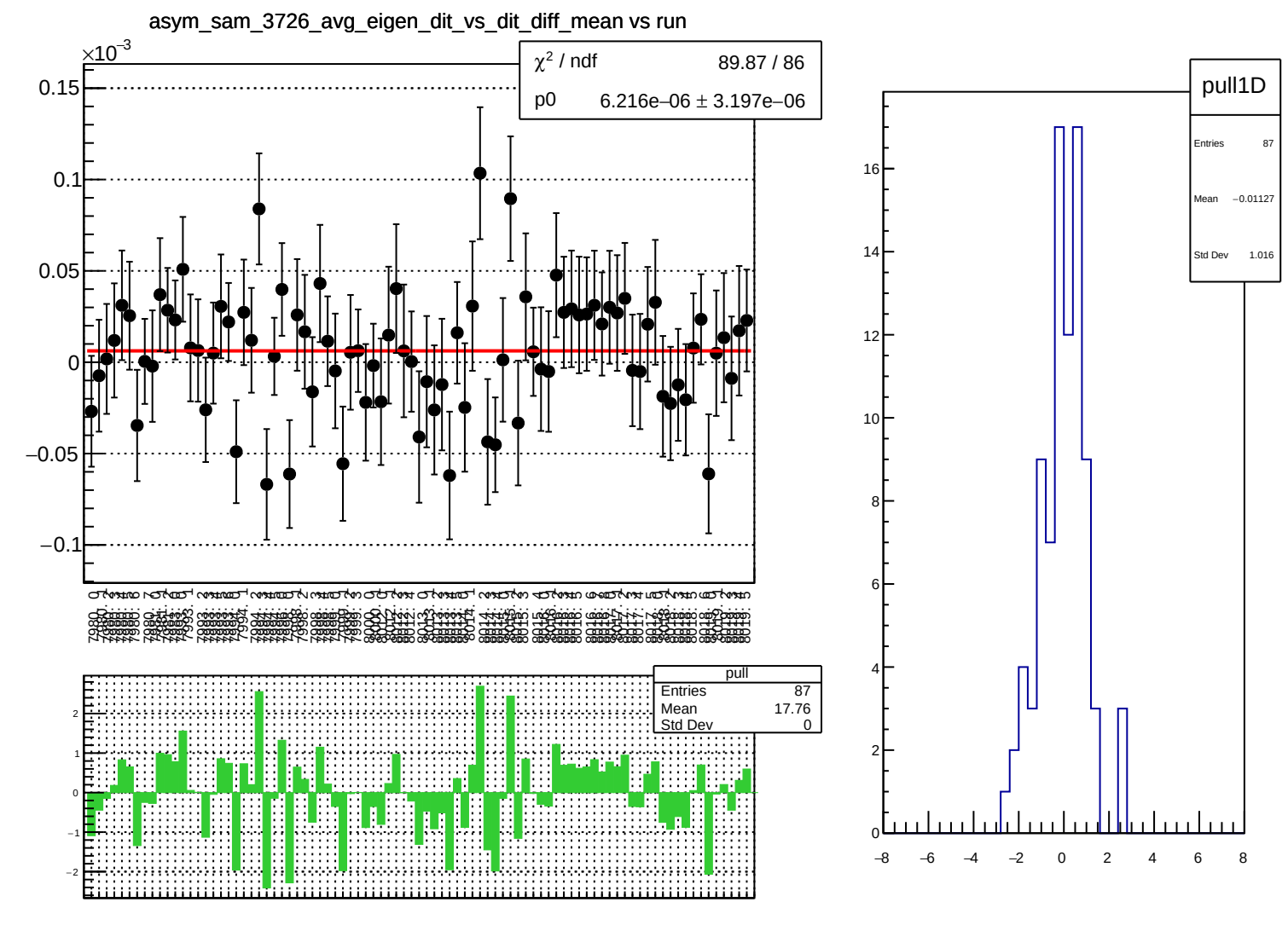

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 86
p0 1.123e−10 ± 1.372e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

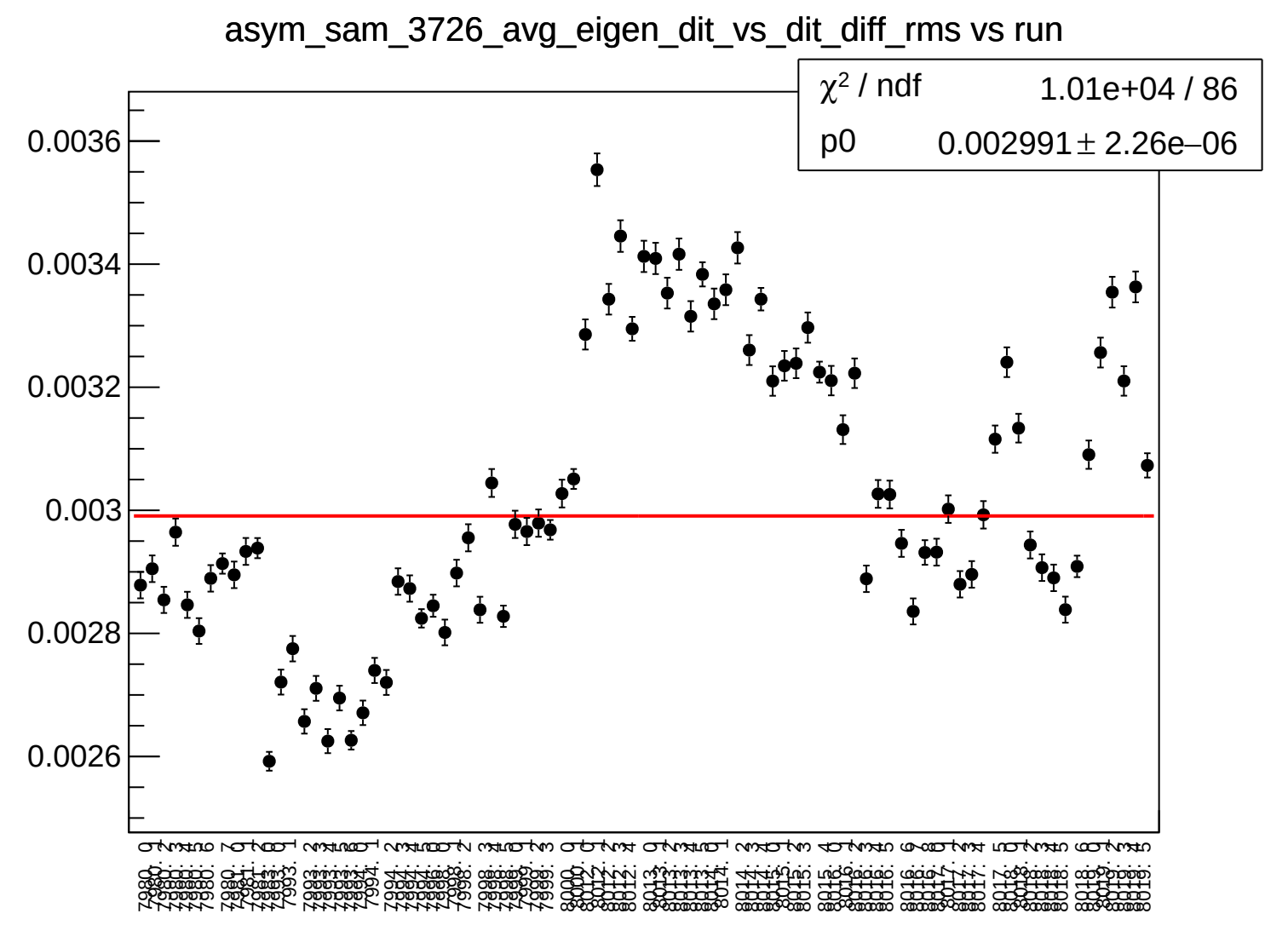

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 116 / 86
p0 −0.00496 ± 0.05597
pull
Entries 87
Mean 20.58
Std Dev 20.7
pull1D
Entries 87
Mean 0.133
Std Dev 1.147

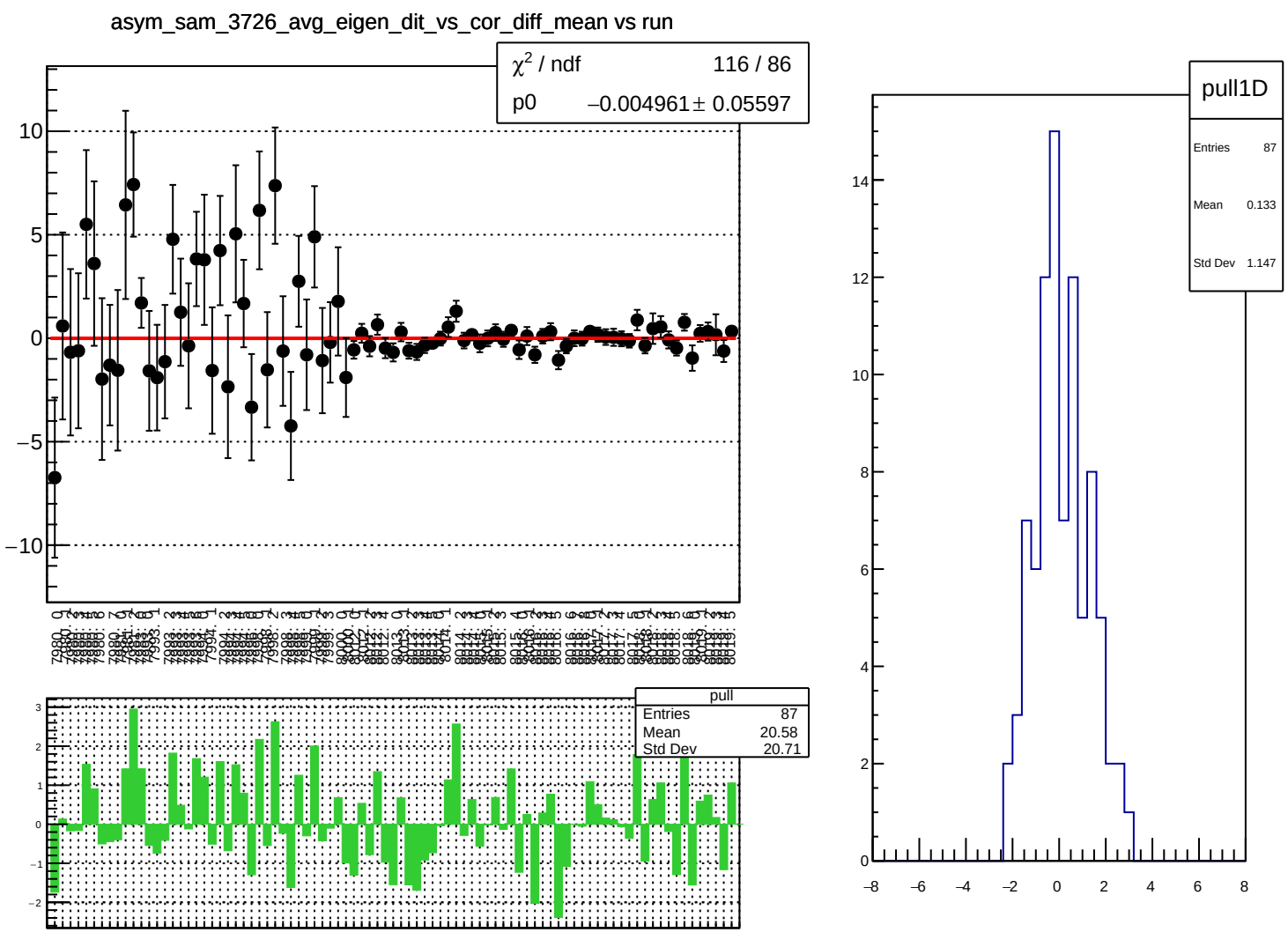

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.161e+05 / 86
p0 42.34 ± 0.03957
450
400
350
300
250
200
150
100
50

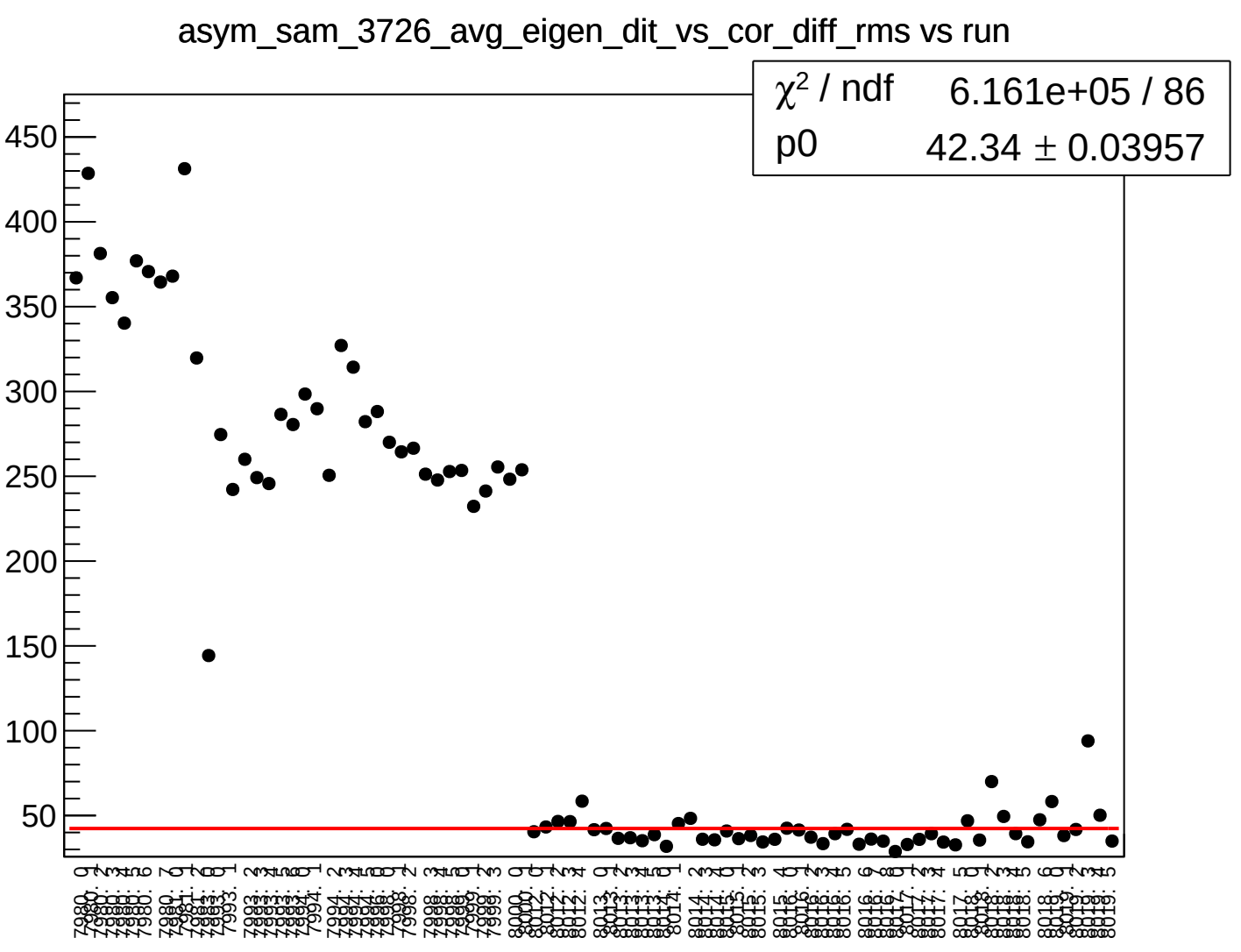

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116 / 86
p0 −0.00496 ± 0.05597
pull
Entries 87
Mean 20.58
Std Dev 20.7
pull1D
Entries 87
Mean 0.133
Std Dev 1.147

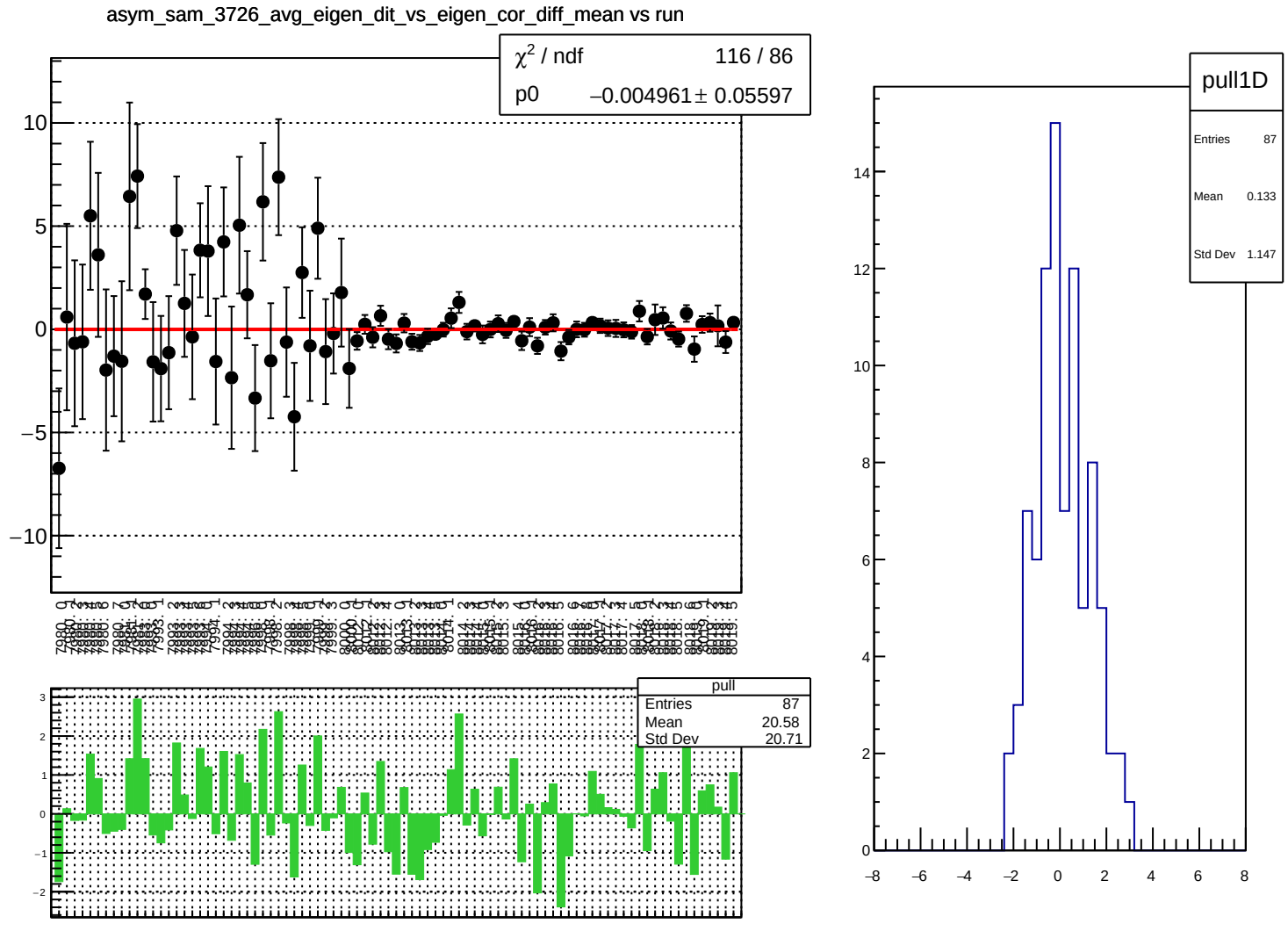

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.161e+05 / 86
p0 42.34 ± 0.03957
450
400
350
300
250
200
150
100
50

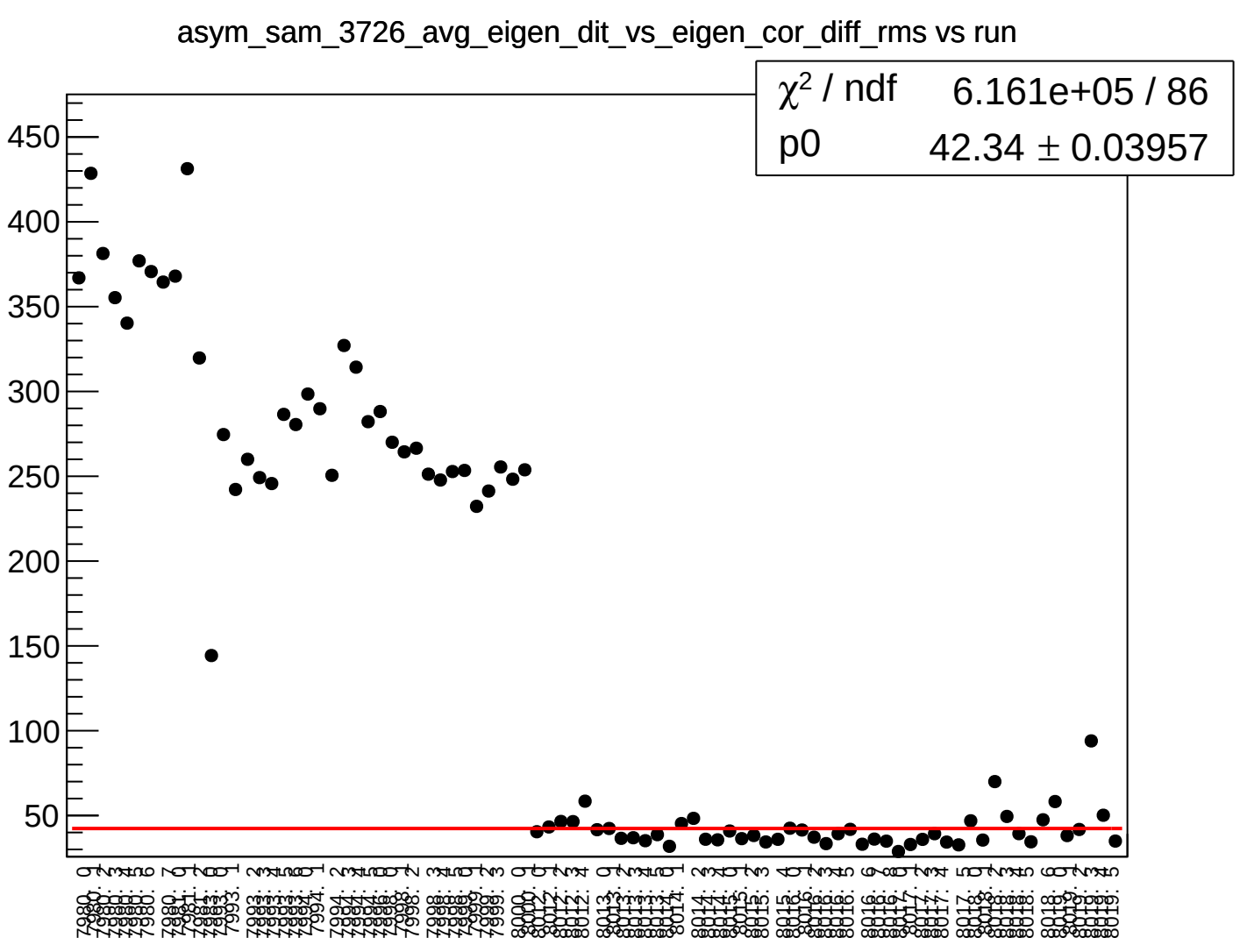

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.87 / 86
p0 6.216e−06 ± 3.197e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 17.76
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01127
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

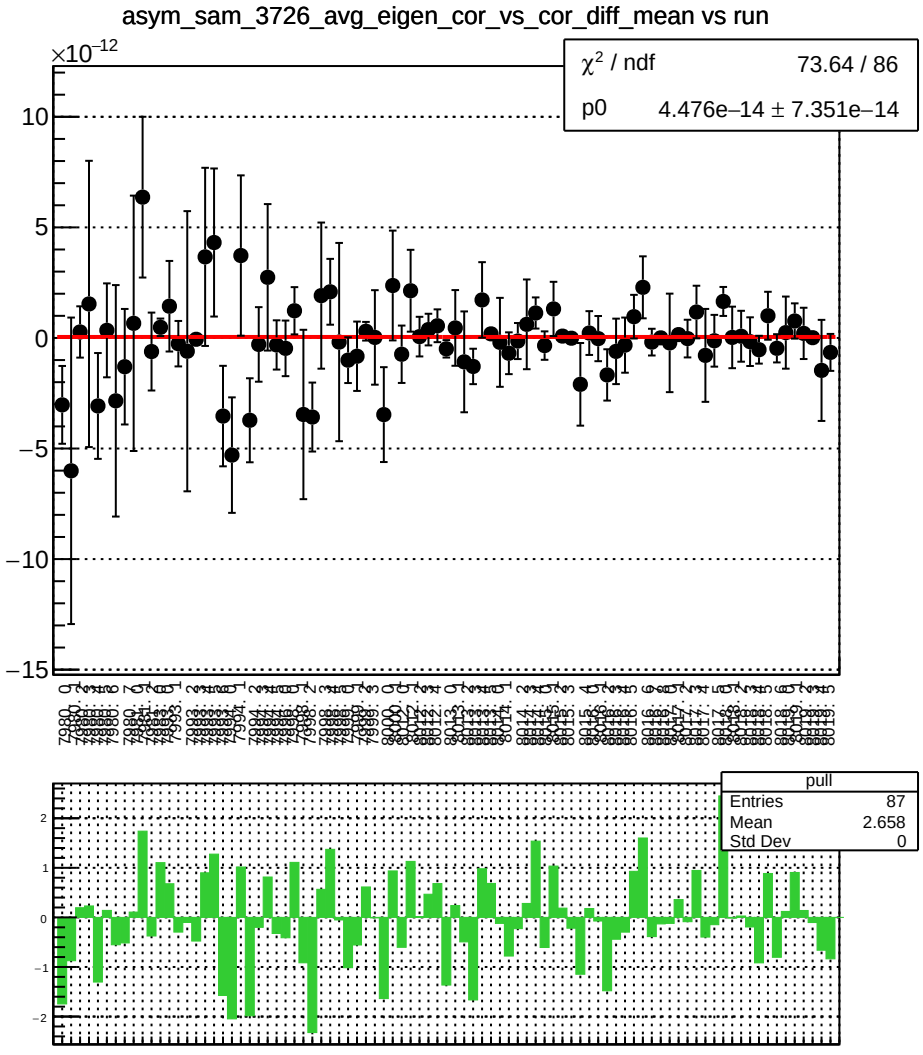

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.01e+04 / 86
p0 0.002991 ± 2.26e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

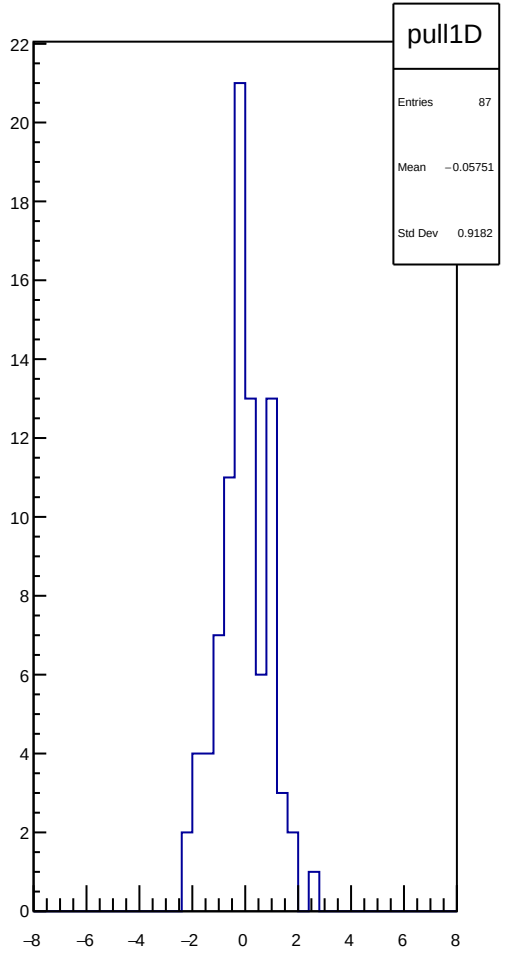

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 116 / 86
p0 −0.004961 ± 0.05597
pull
Entries 87
Mean 20.58
Std Dev 20.71
pull1D
Entries 87
Mean 0.133
Std Dev 1.147

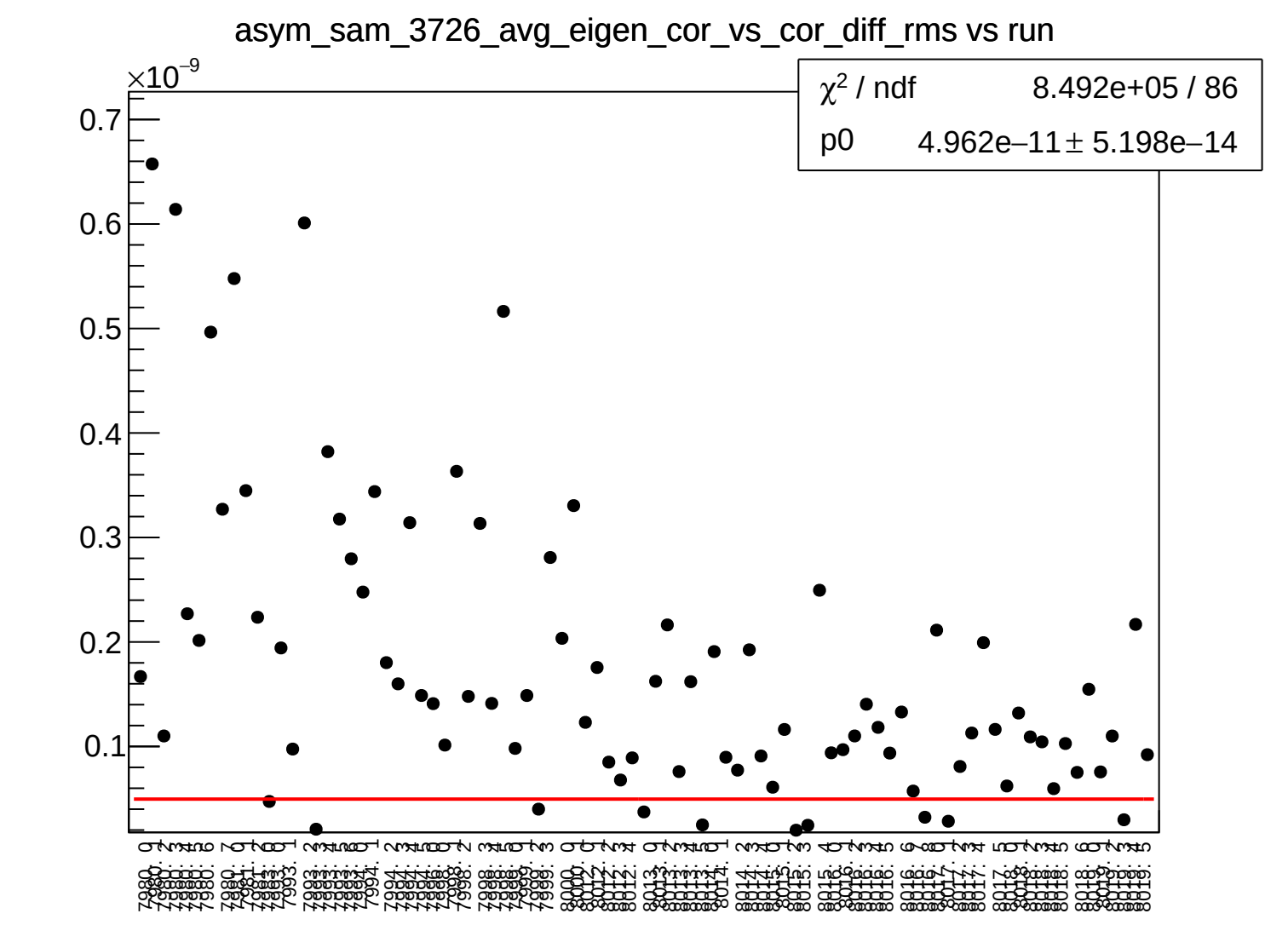

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.161e+05 / 86
p0 42.34 ± 0.03957
450
400
350
300
250
200
150
100
50

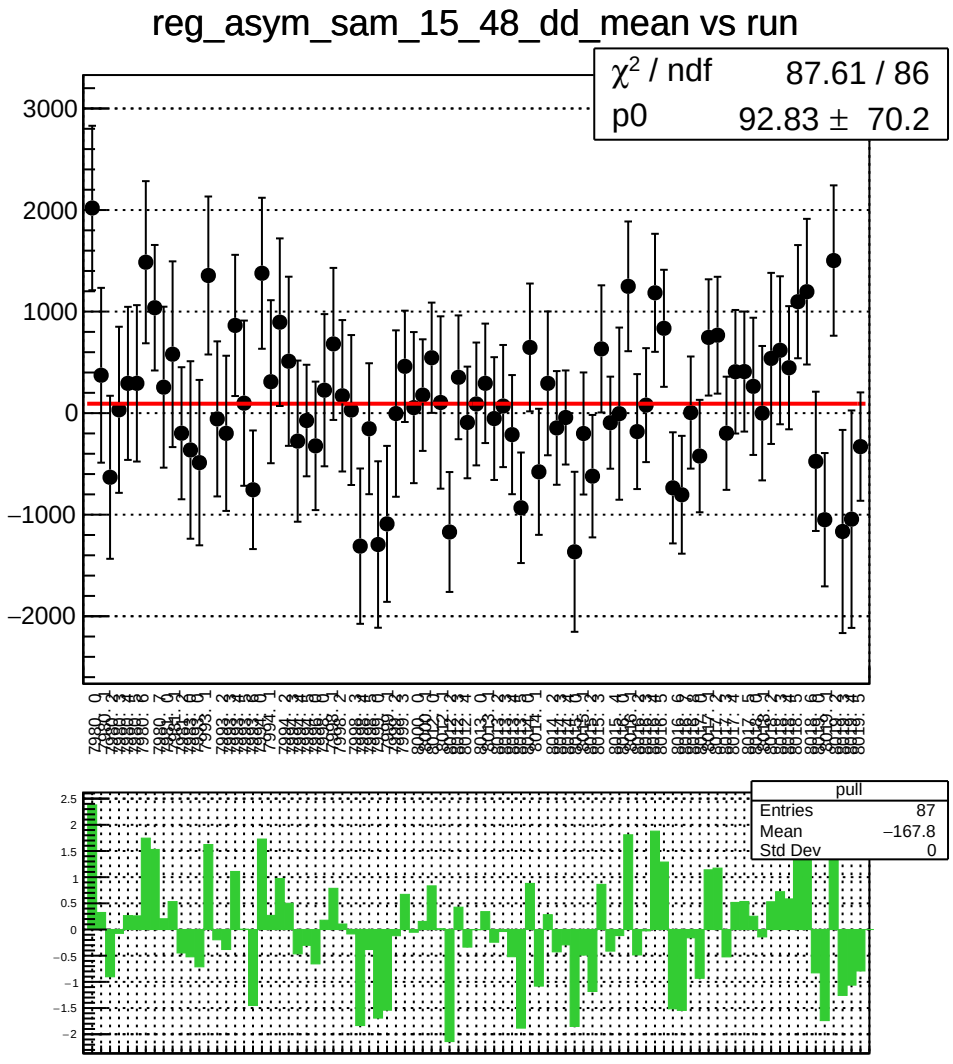

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116 / 86
p0 −0.004961 ± 0.05597
pull
Entries 87
Mean 20.58
Std Dev 20.71
pull1D
Entries 87
Mean 0.133
Std Dev 1.147

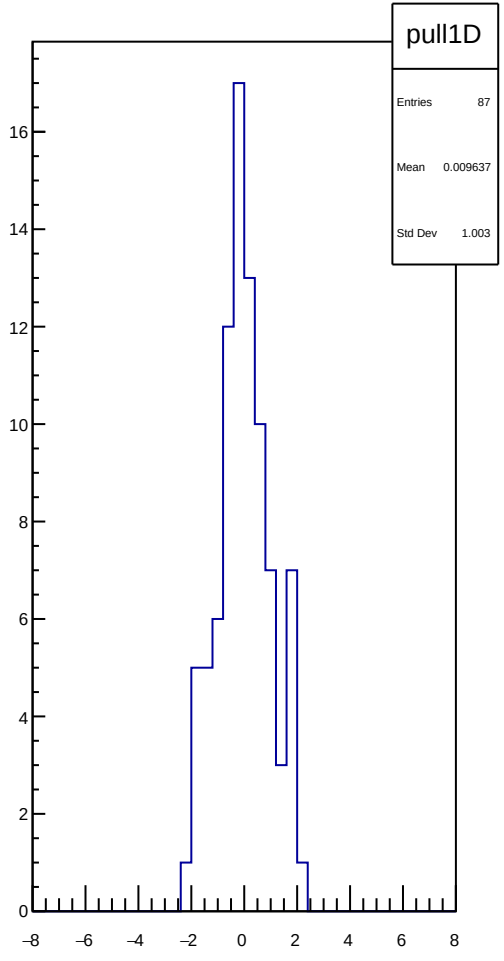

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.161e+05 / 86
p0 42.34 ± 0.03957
450
400
350
300
250
200
150
100
50

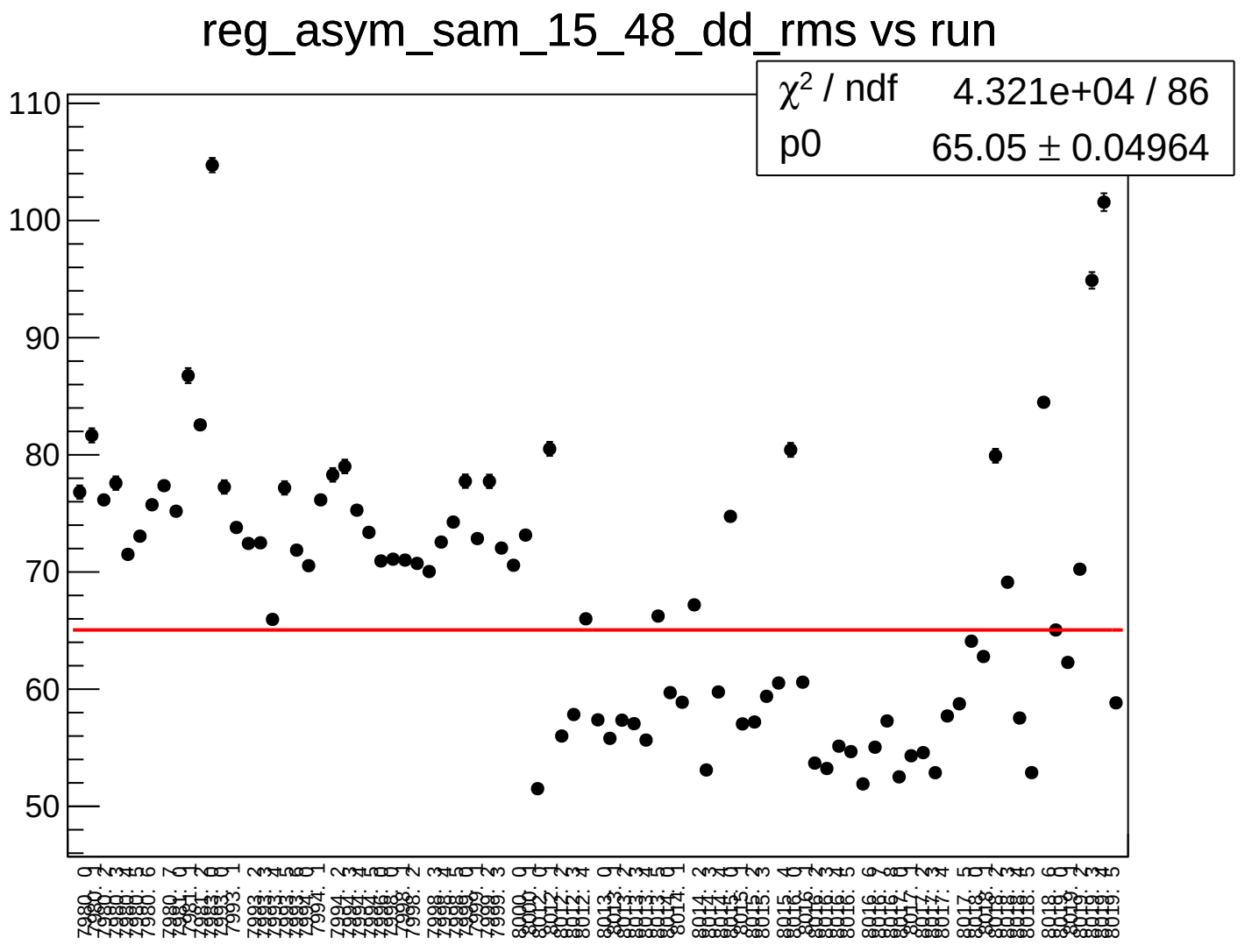

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.64 / 86
p0 4.476e−14 ± 7.351e−14
pull
Entries 87
Mean 2.658
Std Dev 0

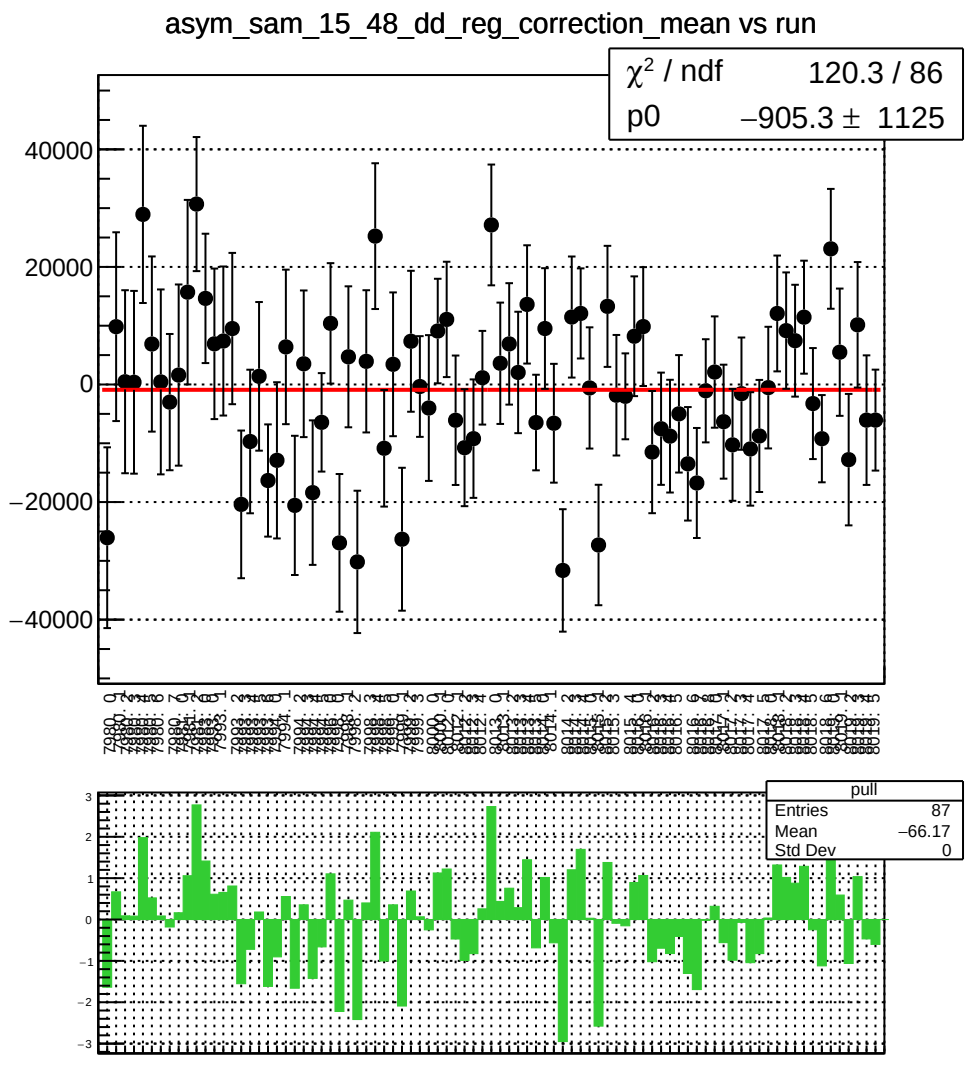

pull1D
Entries 87
Mean −0.05751
Std Dev 0.9182

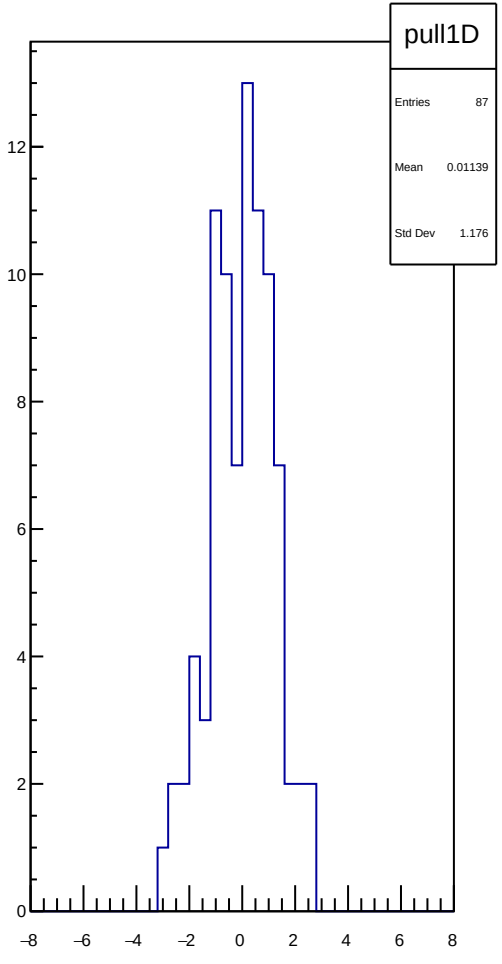

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.492e+05 / 86
p0 4.962e−11 ± 5.198e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

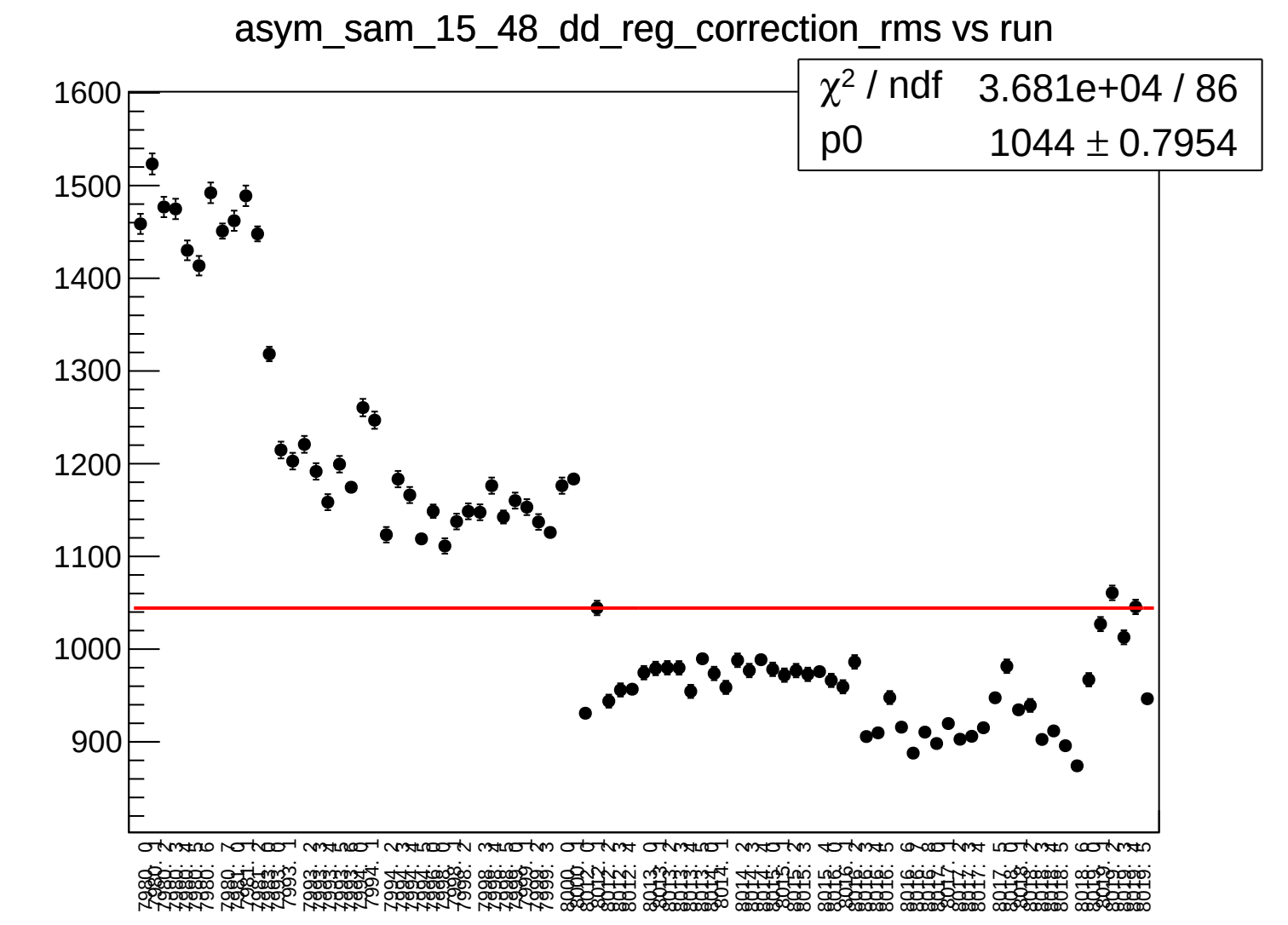

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 87.61 / 86
p0 92.83 ± 70.2
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −167.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

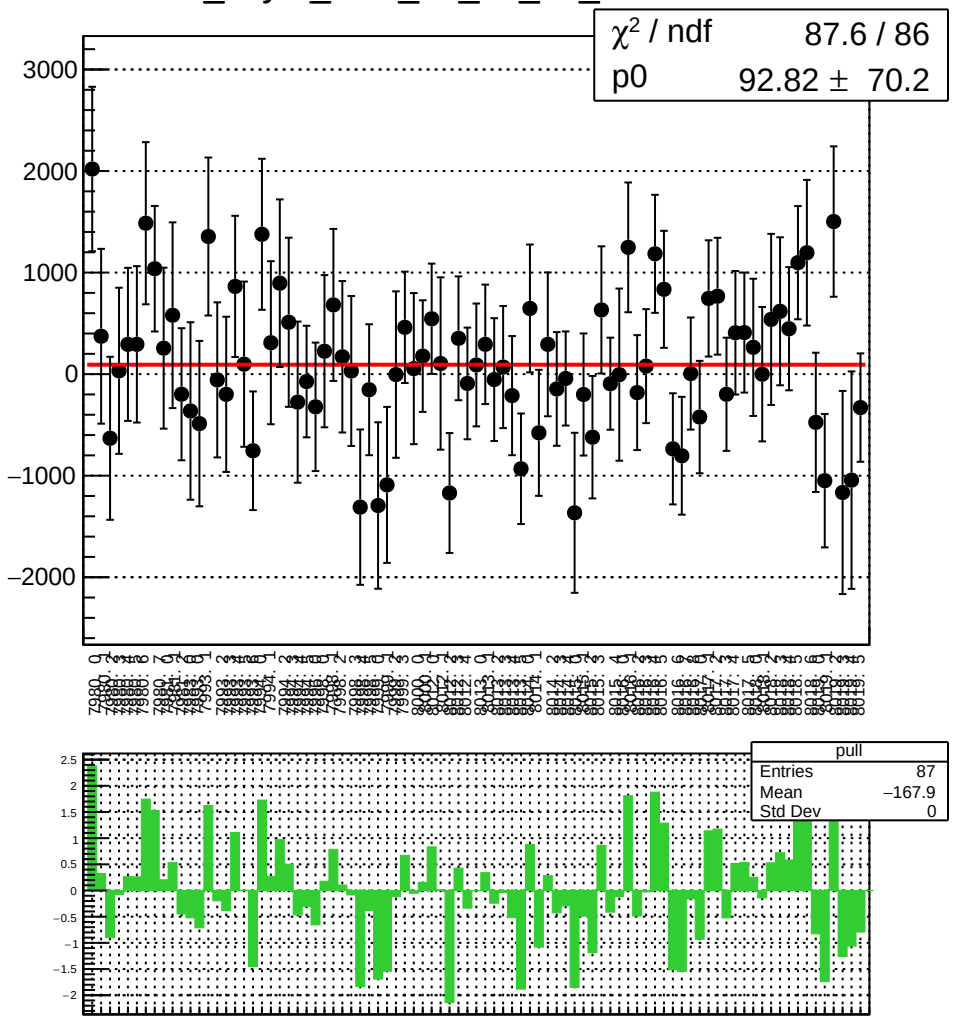

pull1D
Entries 87
Mean 0.009637
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

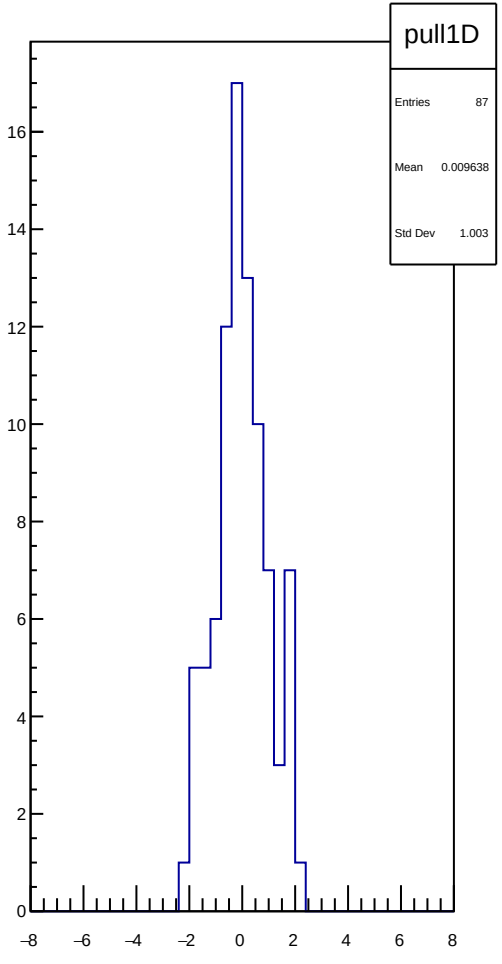

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 4.321e+04 / 86
p0 65.05 ± 0.04964
110
100
90
80
70
60
50

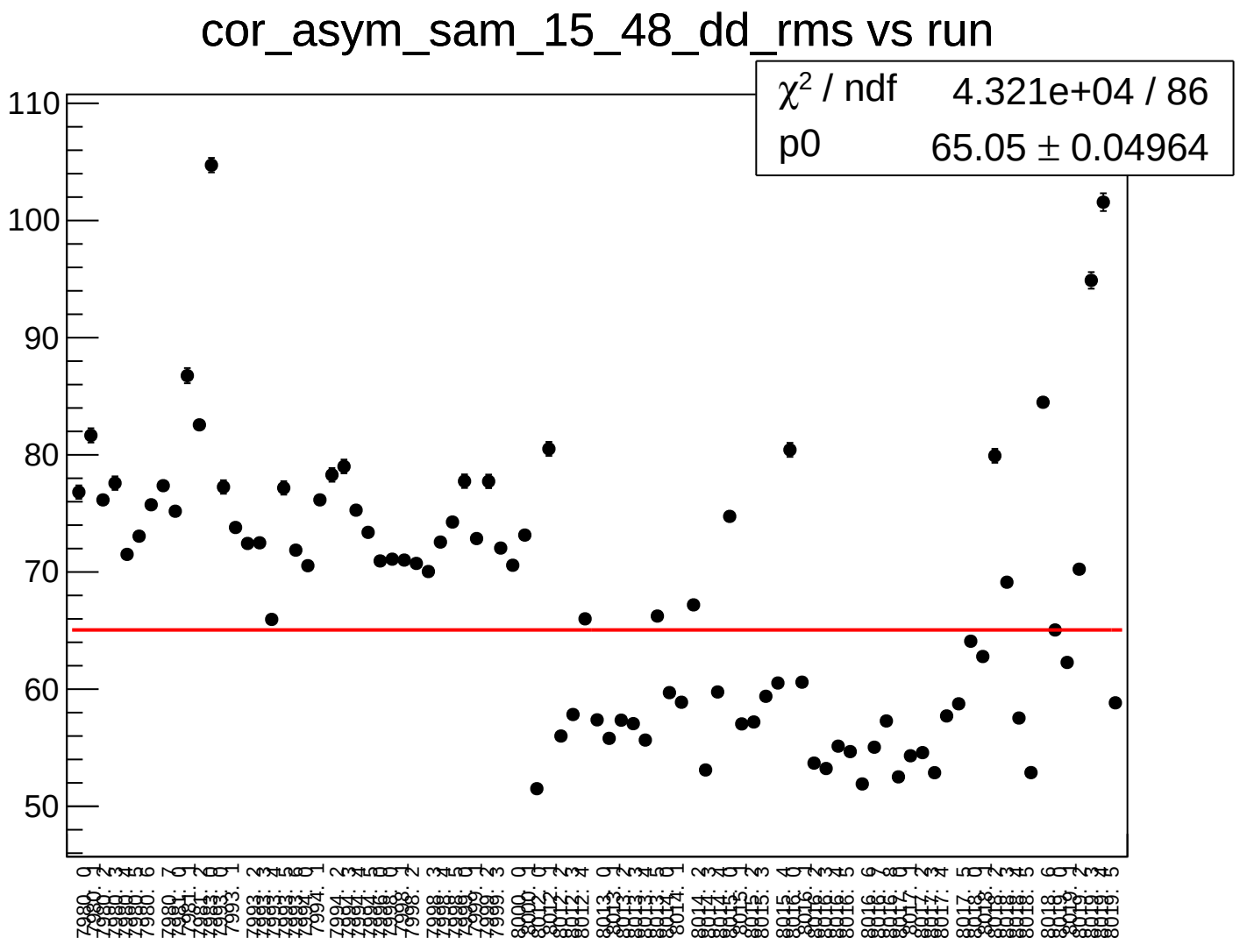

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 120.3 / 86
p0 −905.3 ± 1125
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −66.17
Std Dev 0
3
2
1
0
−1
−2
−3

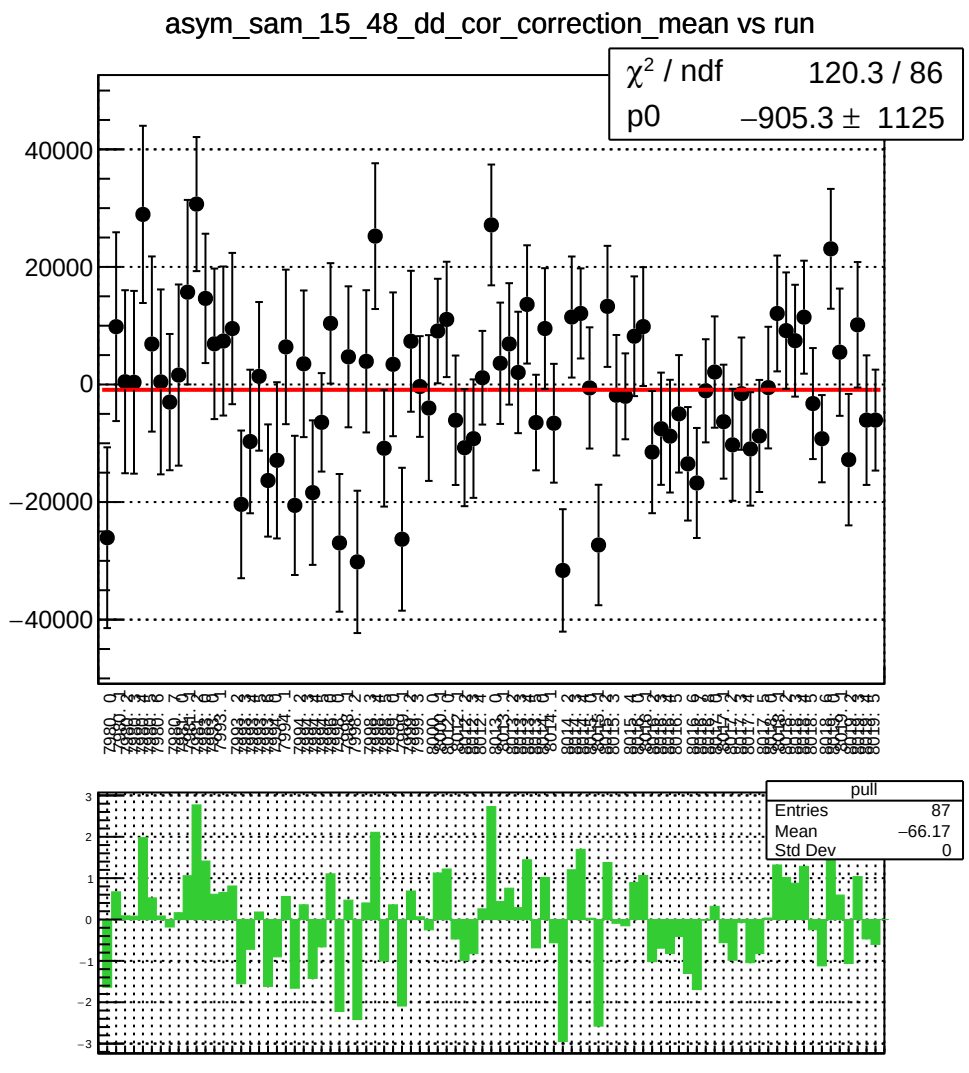

pull1D
Entries 87
Mean 0.01139
Std Dev 1.176
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

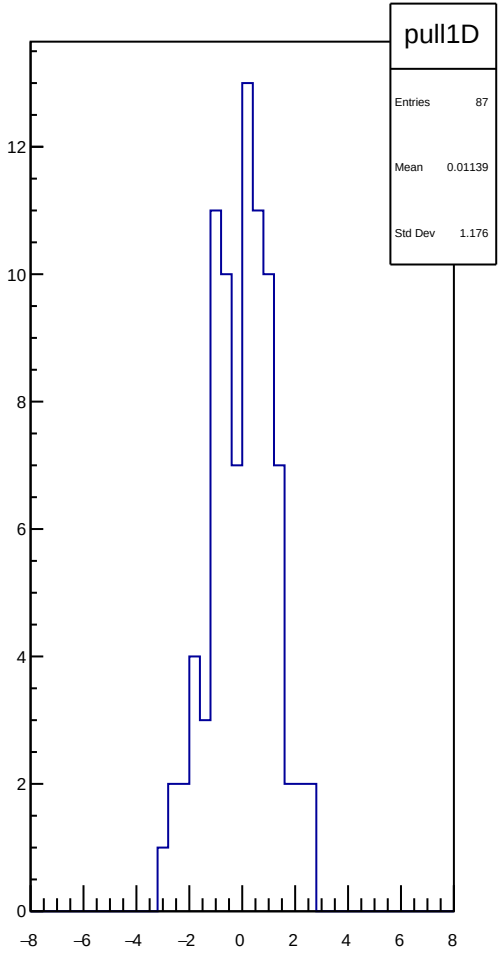

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 3.681e+04 / 86
p0 1044 ± 0.7954
1600
1500
1400
1300
1200
1100
1000
900

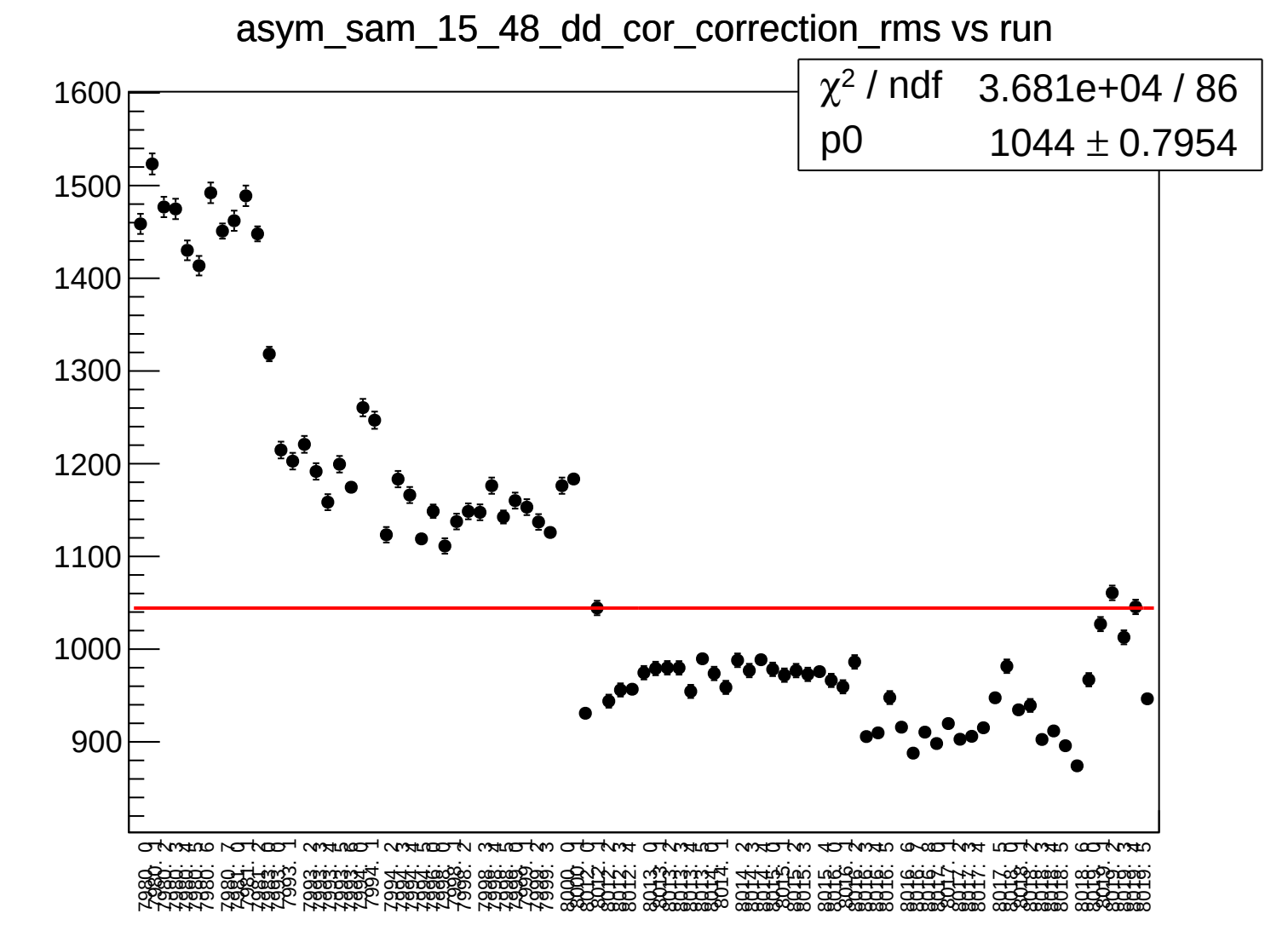

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 87.6 / 86
p0 92.82 ± 70.2
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −167.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

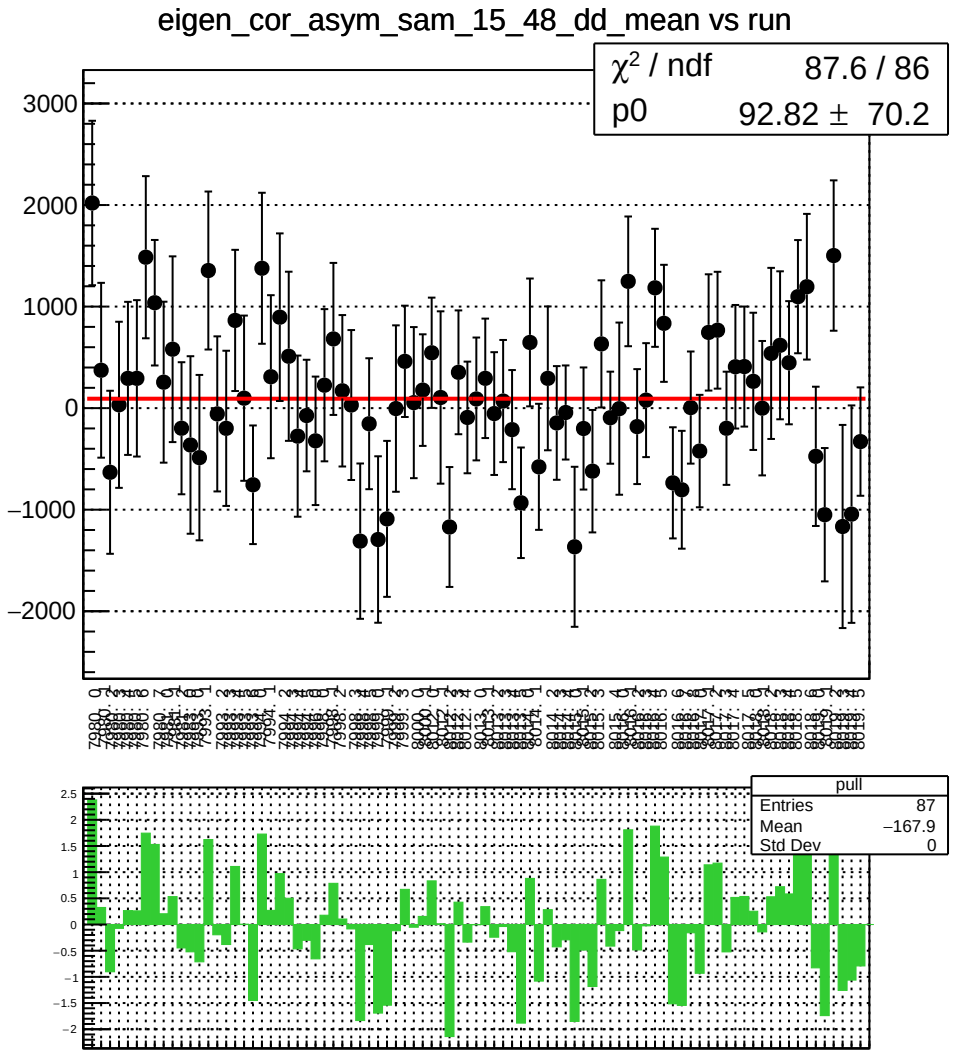

pull1D
Entries 87
Mean 0.009638
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

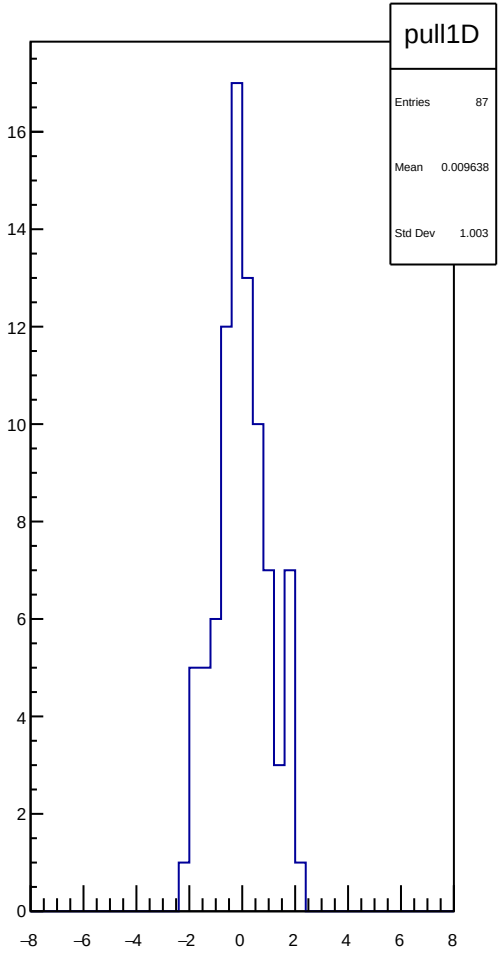

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 4.321e+04 / 86
p0 65.05 ± 0.04964
110
100
90
80
70
60
50

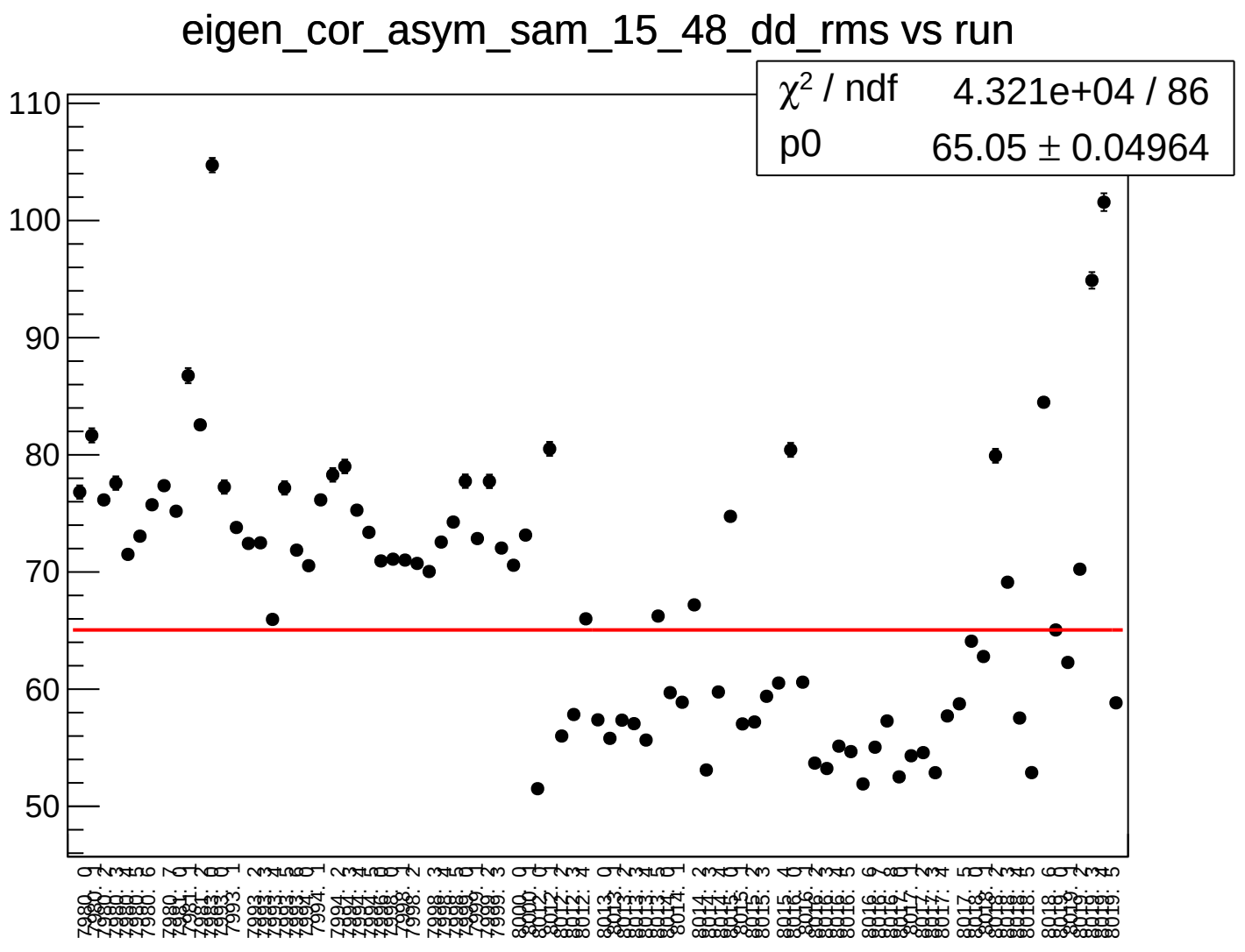

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 120.3 / 86
p0 −905.3 ± 1125
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −66.17
Std Dev 0
3
2
1
0
−1
−2
−3

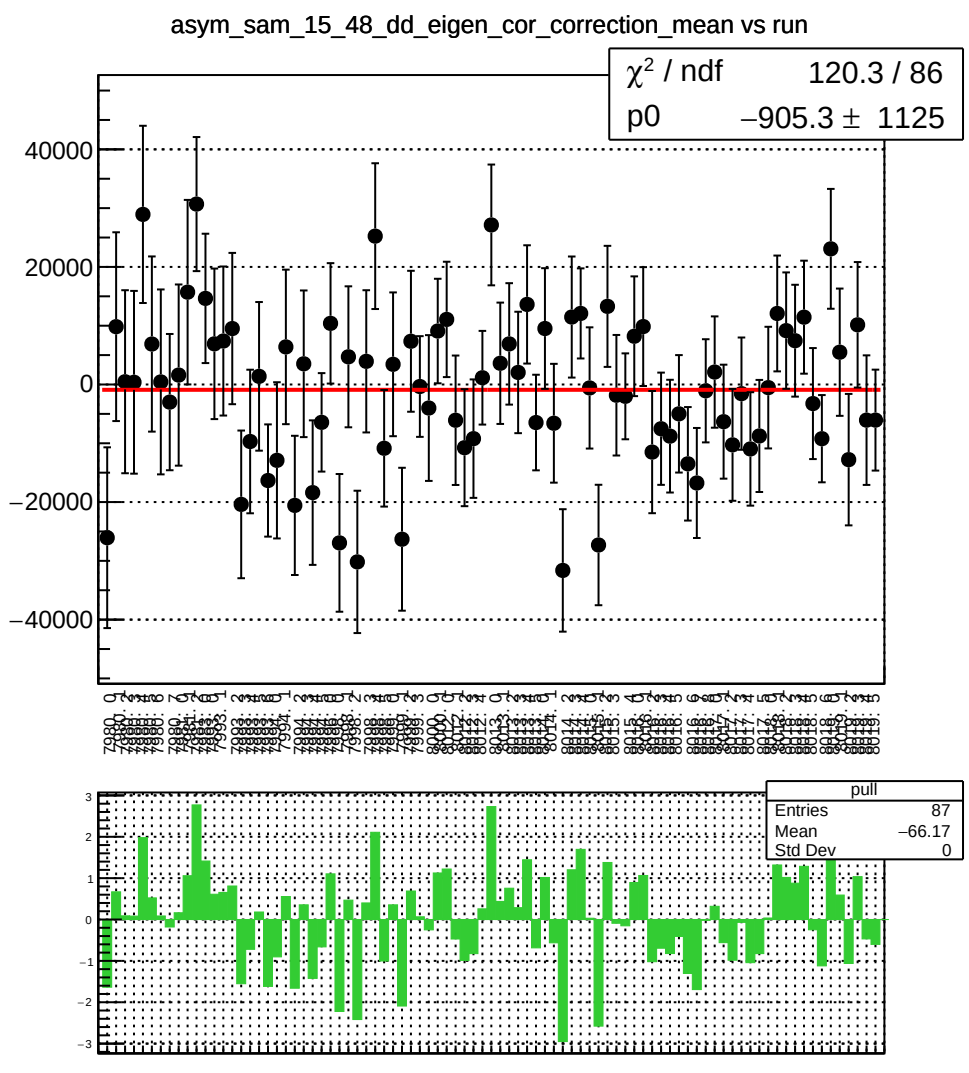

pull1D
Entries 87
Mean 0.01139
Std Dev 1.176
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

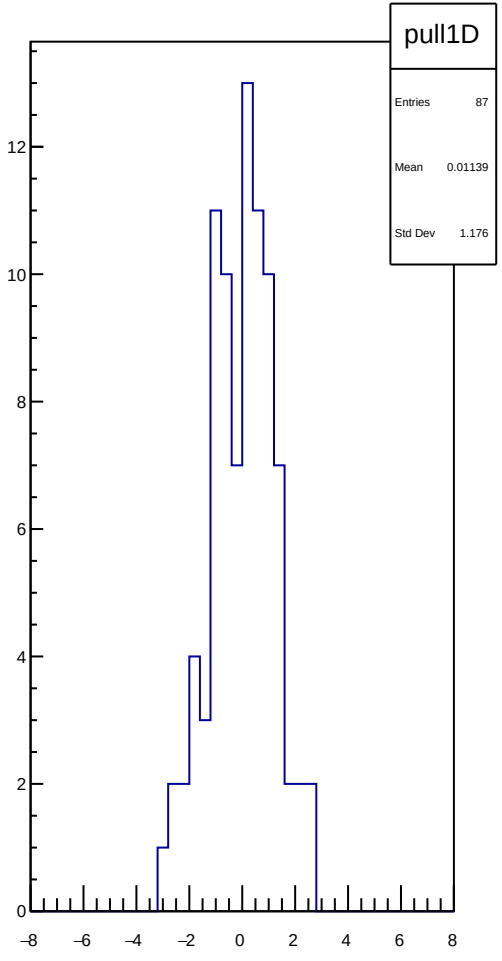

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 3.681e+04 / 86
p0 1044 ± 0.7954
1600
1500
1400
1300
1200
1100
1000
900

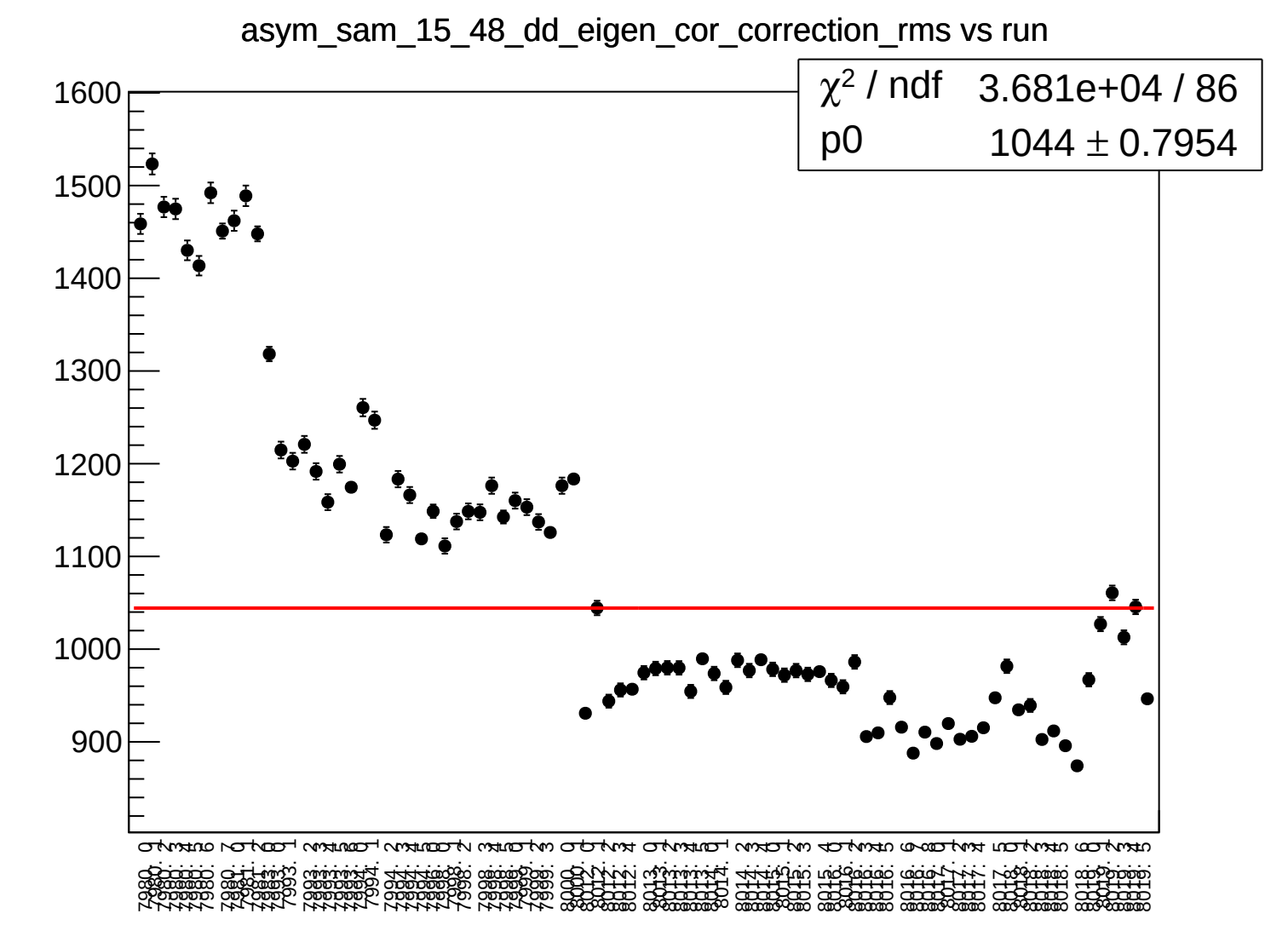

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 87.6 / 86
p0 92.82 ± 70.2
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −167.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

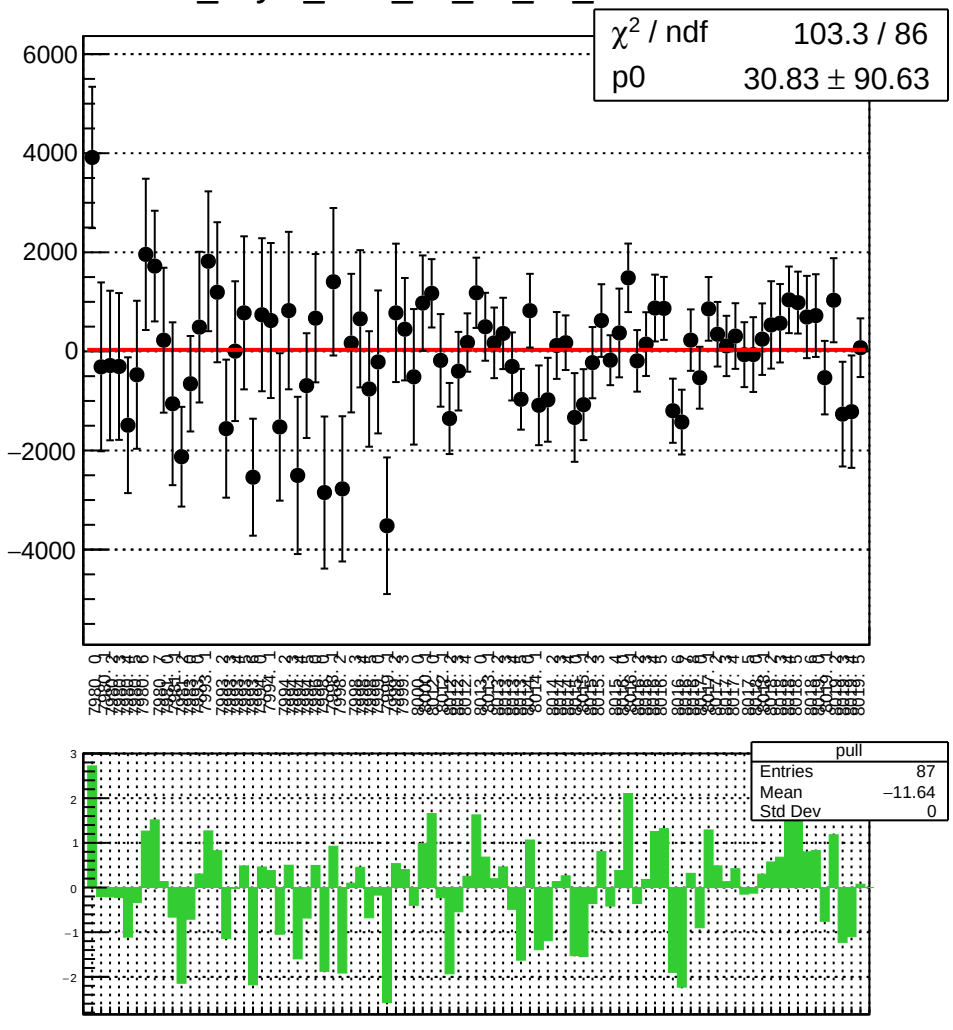

pull1D
Entries 87
Mean 0.009638
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

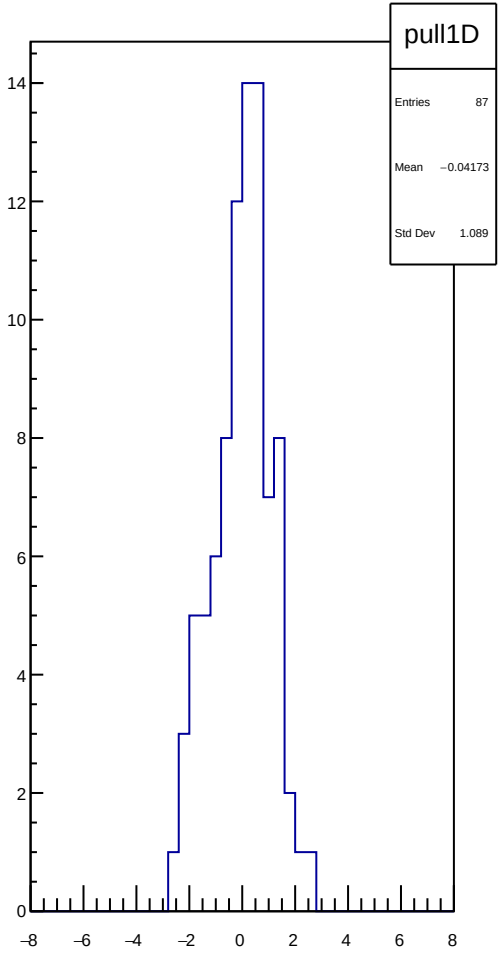

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 4.321e+04 / 86
p0 65.05 ± 0.04964
110
100
90
80
70
60
50

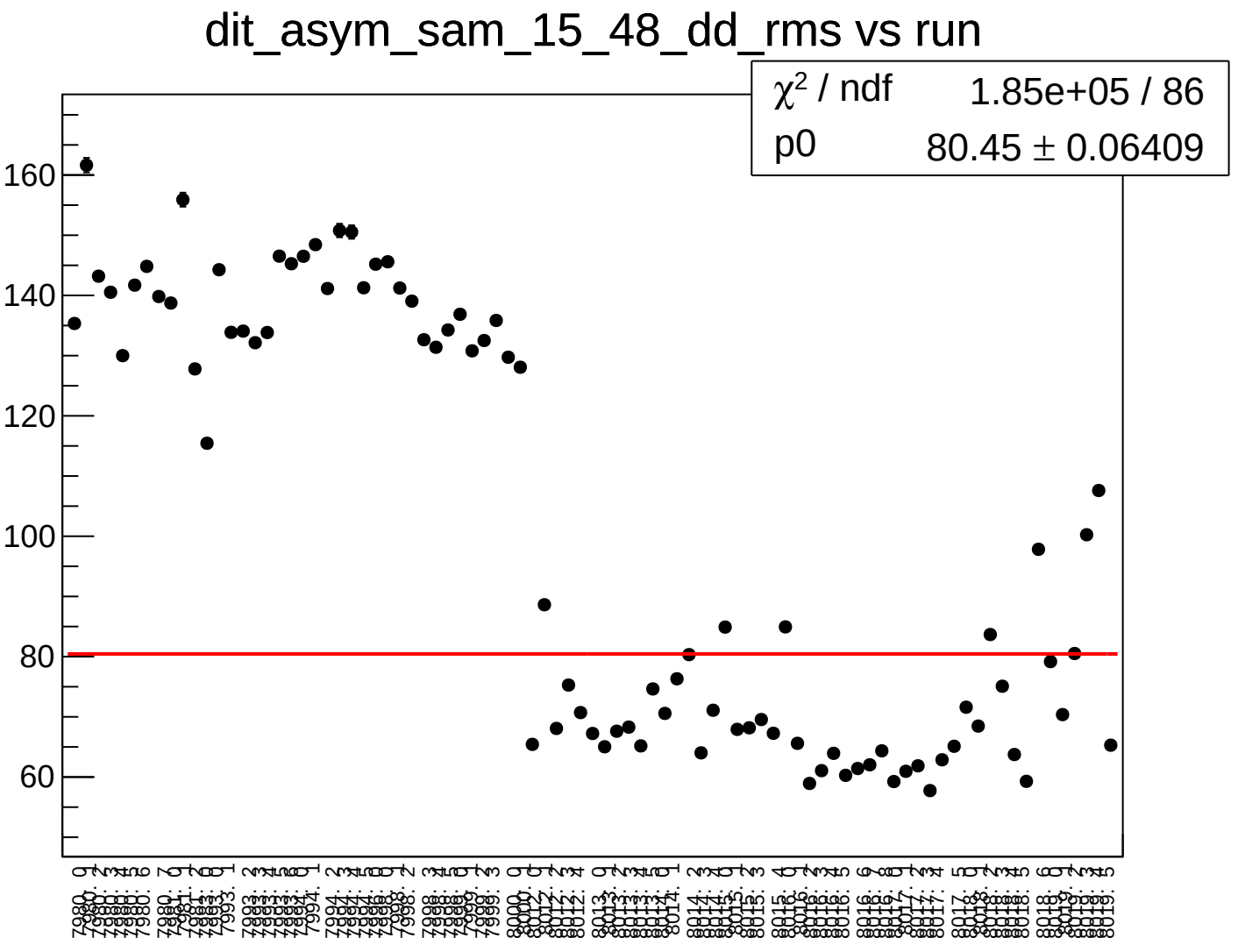

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 120.3 / 86
p0 −905.3 ± 1125
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −66.17
Std Dev 0
3
2
1
0
−1
−2
−3

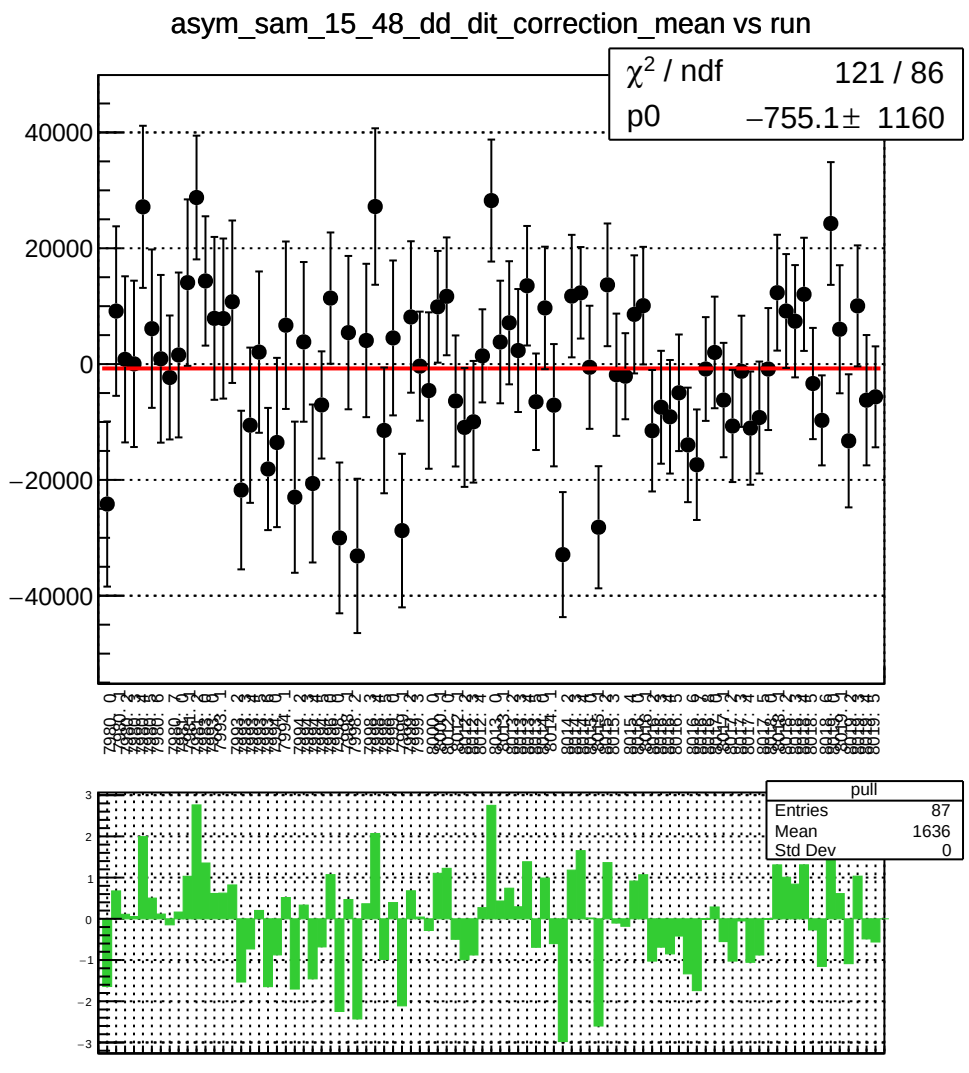

pull1D
Entries 87
Mean 0.01139
Std Dev 1.176
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

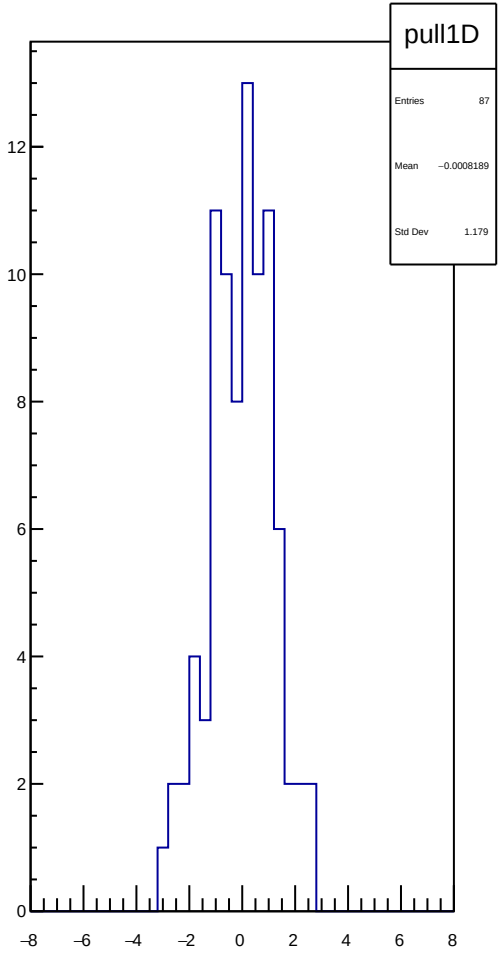

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.681e+04 / 86
p0 1044 ± 0.7954
1600
1500
1400
1300
1200
1100
1000
900

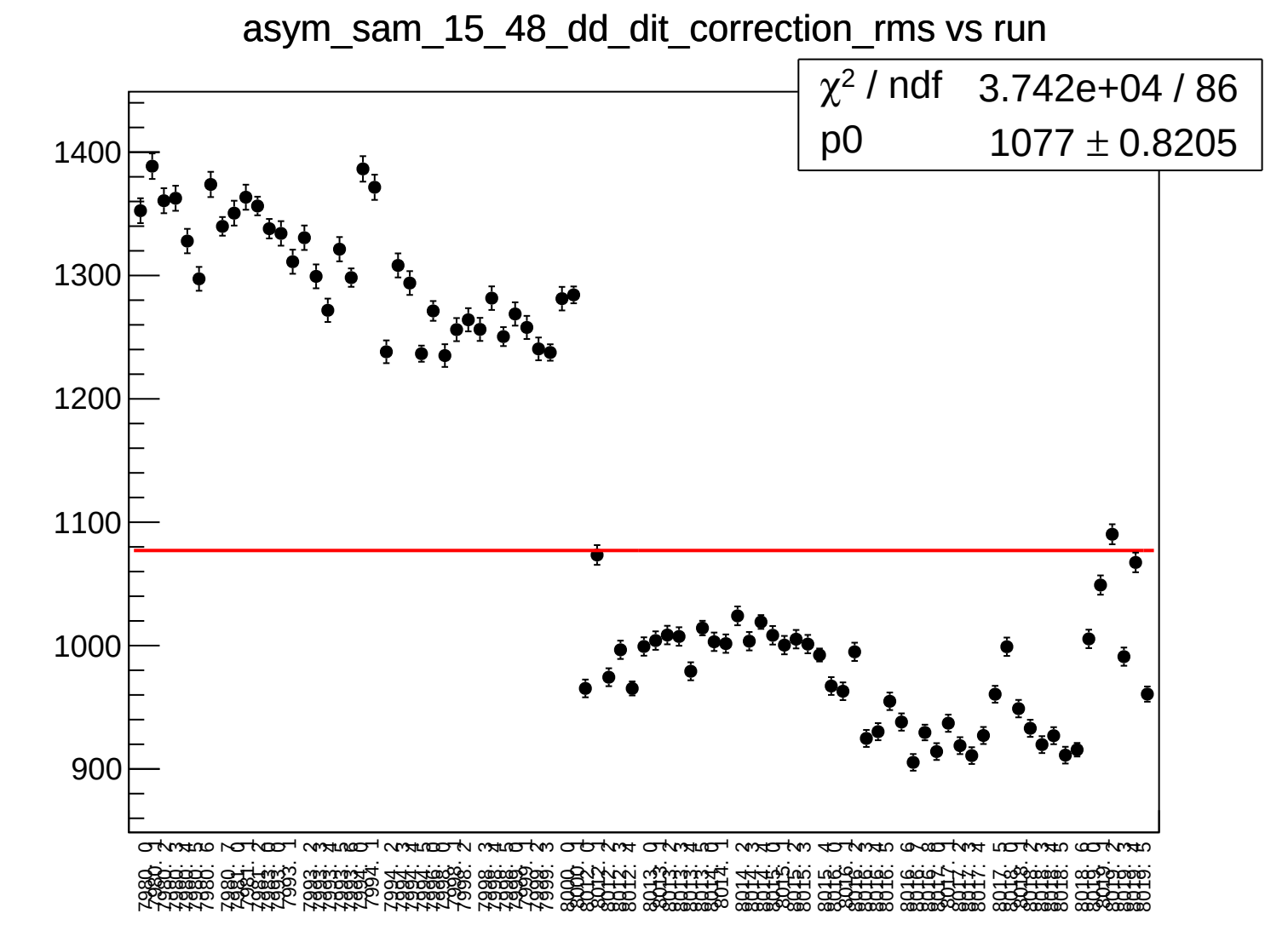

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 103.3 / 86
p0 30.83 ± 90.63
6000
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −11.64
Std Dev 0
3
2
1
0
−1
−2

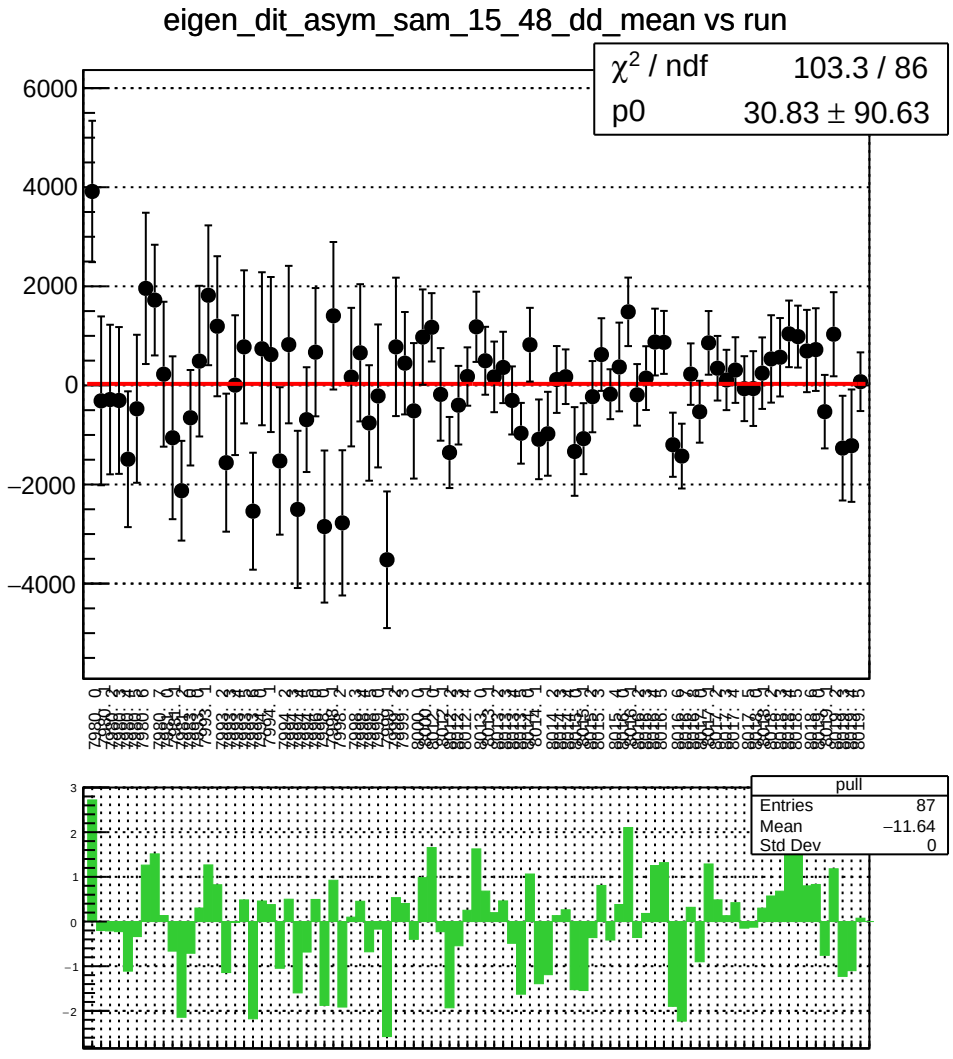

pull1D
Entries 87
Mean −0.04173
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

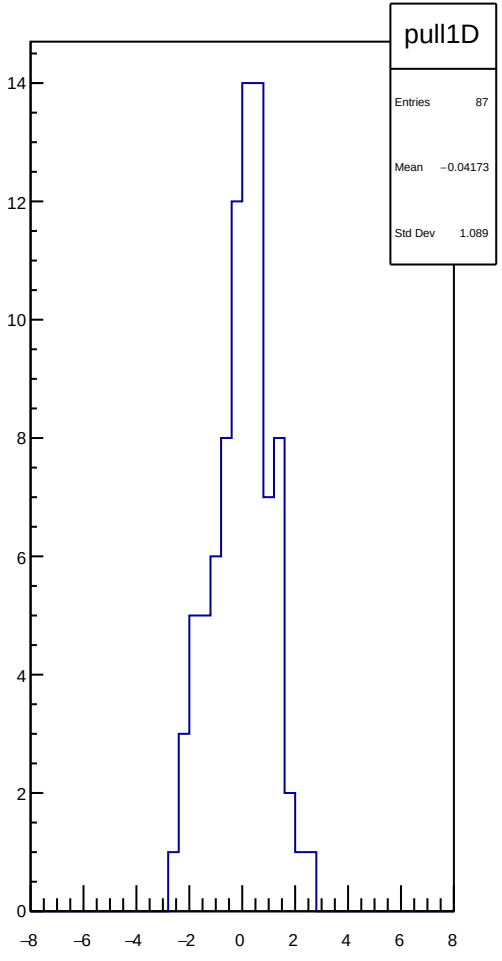

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.85e+05 / 86
p0 80.45 ± 0.06409
160
140
120
100
80
60

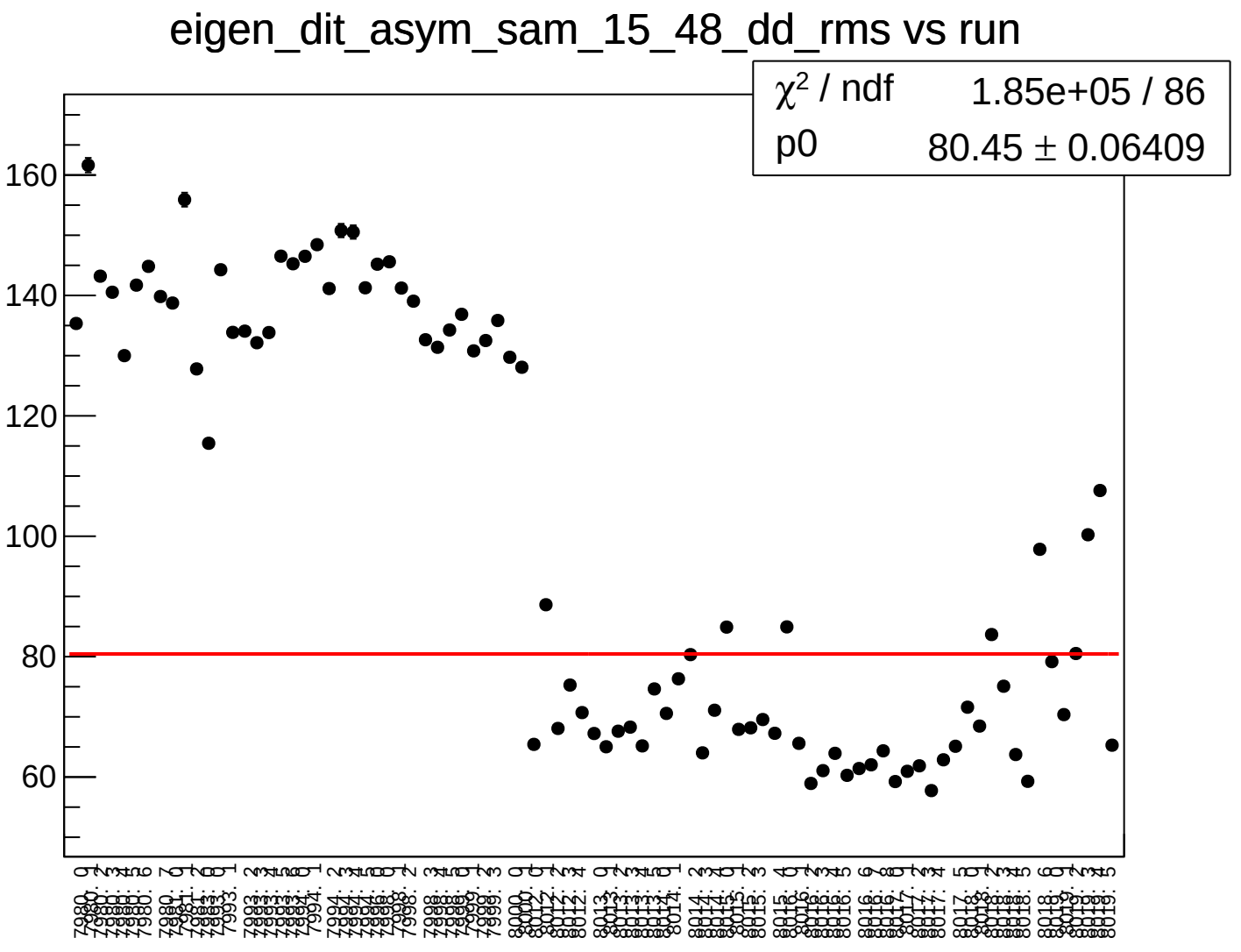

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 121 / 86
p0 −755.1± 1160
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 1636
Std Dev 0
3
2
1
0
−1
−2
−3

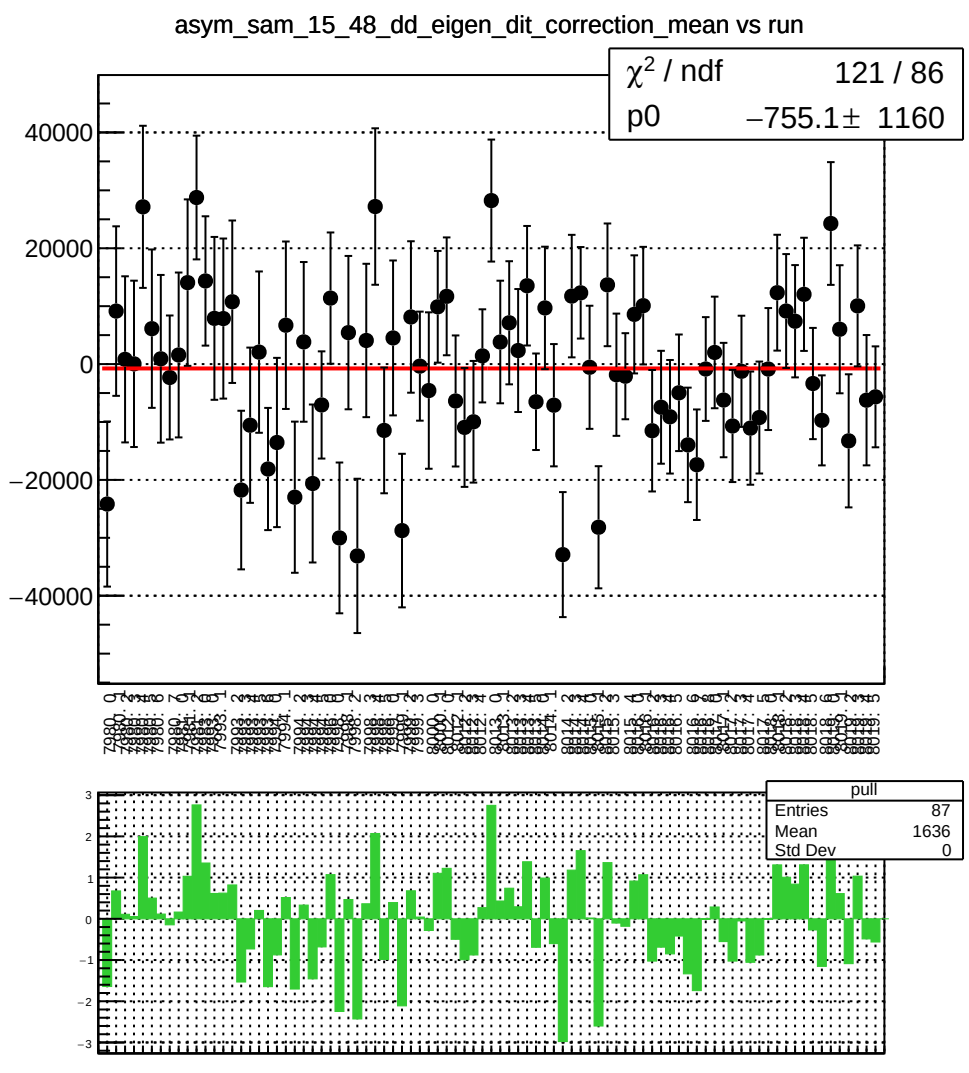

pull1D
Entries 87
Mean −0.0008189
Std Dev 1.179
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

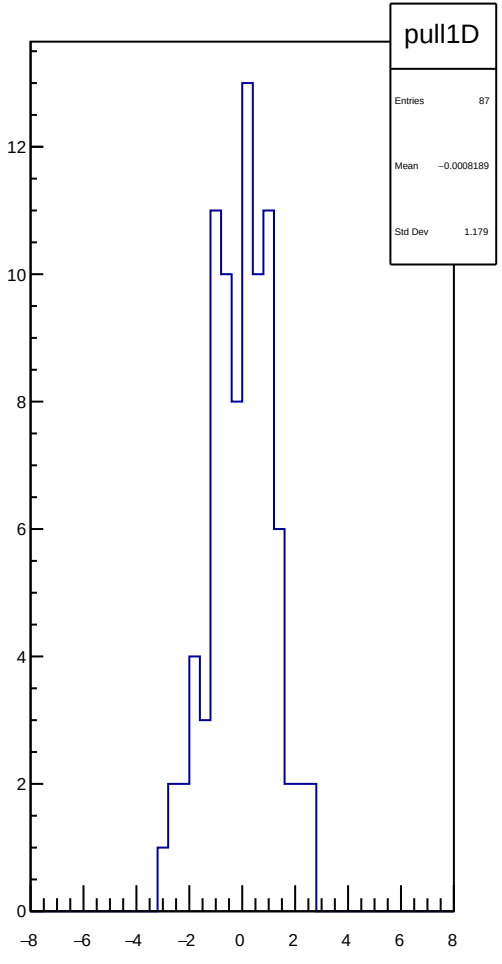

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 3.742e+04 / 86
p0 1077 ± 0.8205
1400
1300
1200
1100
1000
900

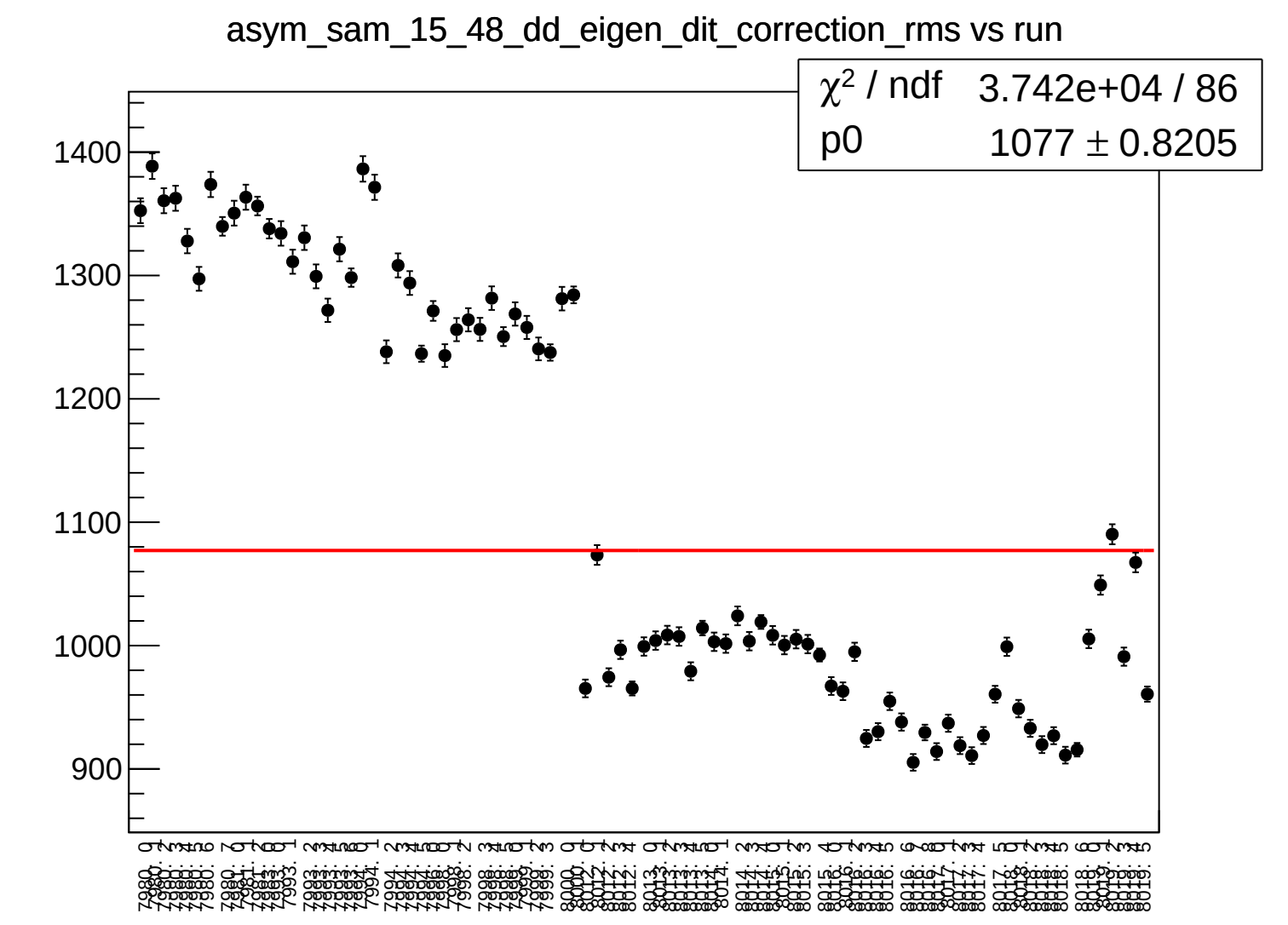

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 103.3 / 86
p0 30.83 ± 90.63
6000
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −11.64
Std Dev 0
3
2
1
0
−1
−2

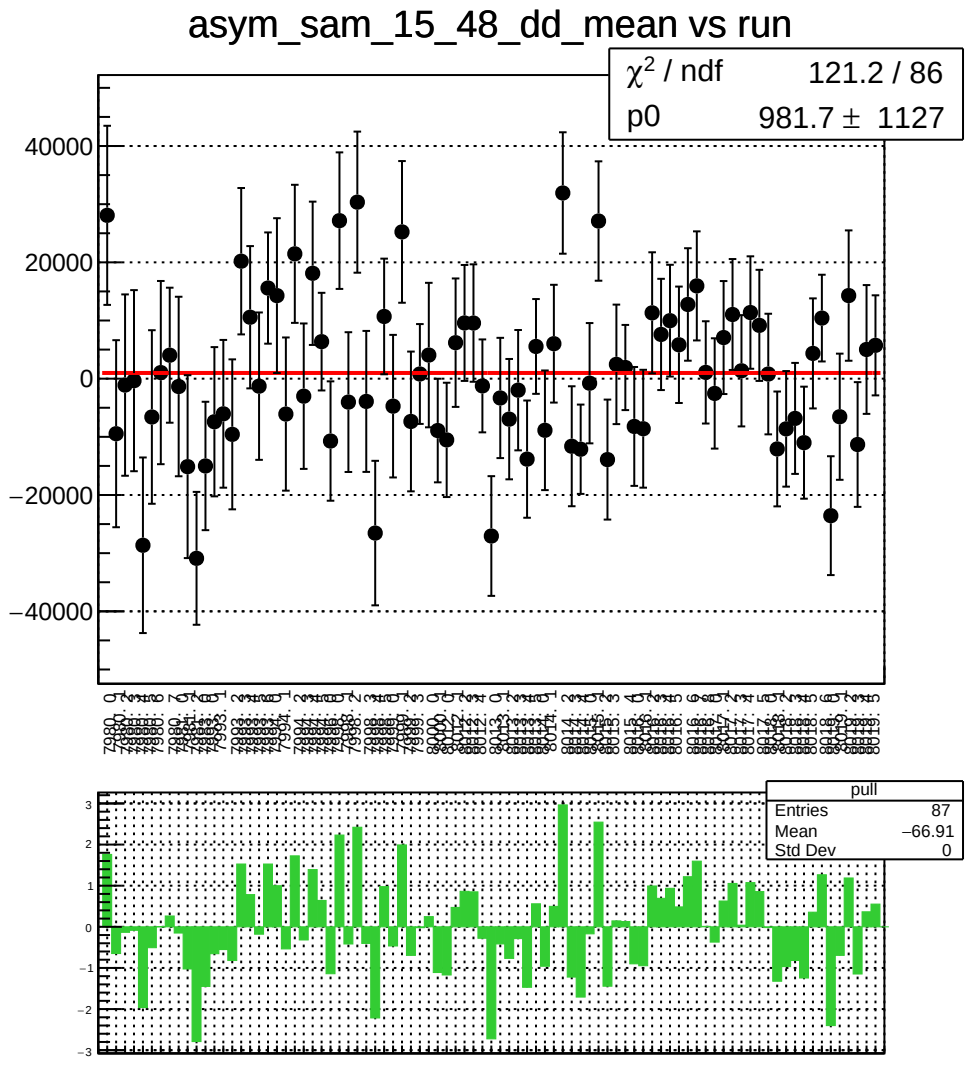

pull1D
Entries 87
Mean −0.04173
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

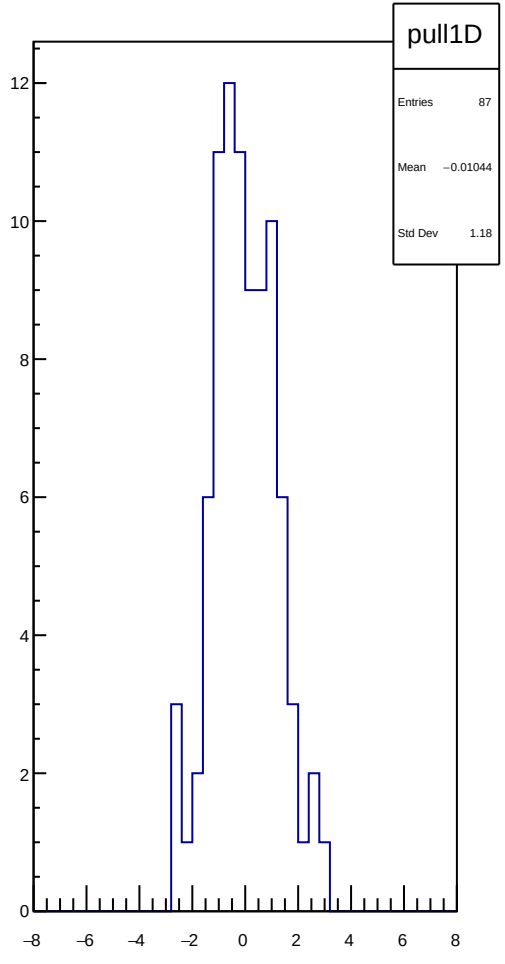

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.85e+05 / 86
p0 80.45 ± 0.06409
160
140
120
100
80
60

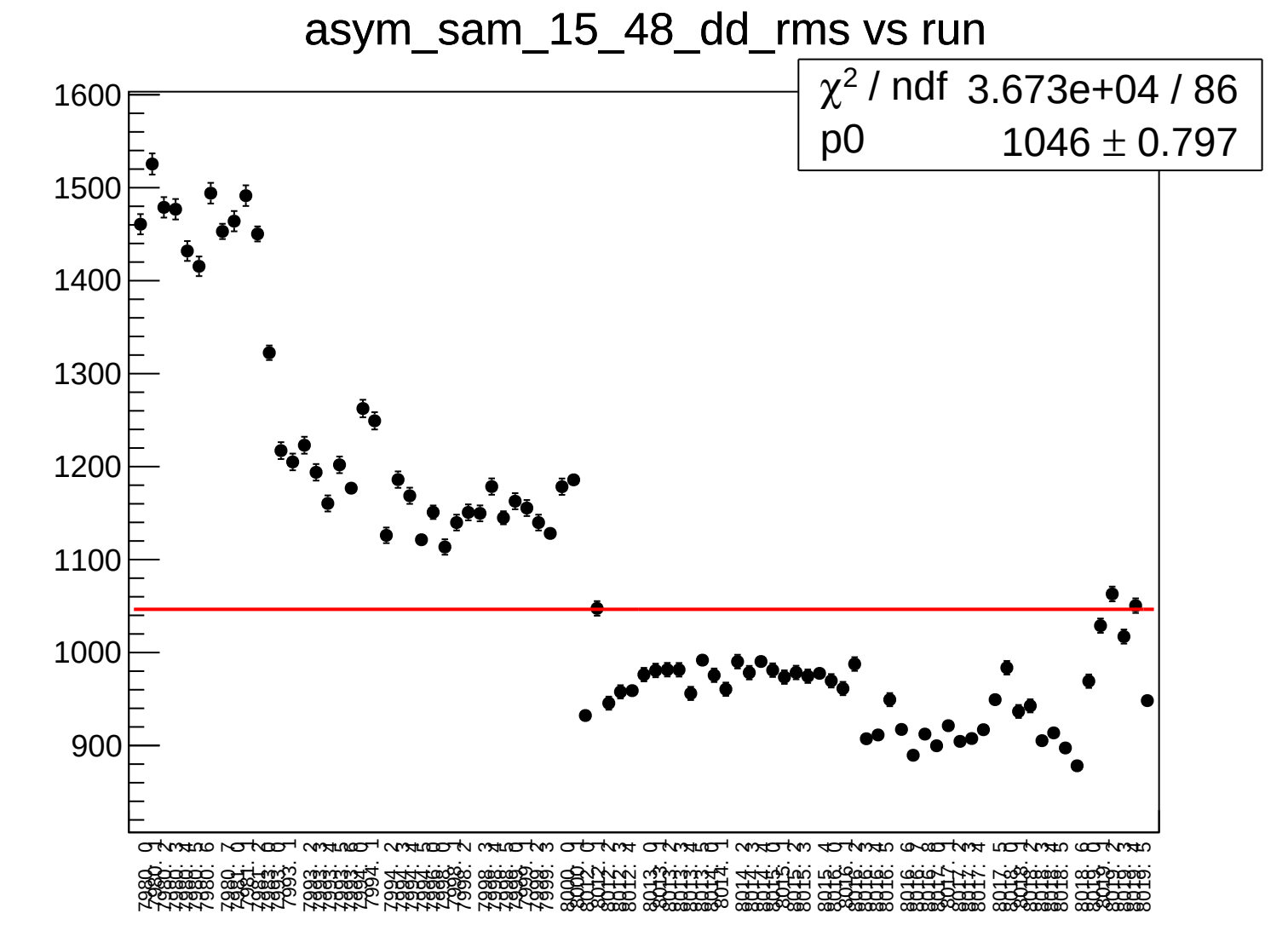

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 121 / 86
p0 −755.1± 1160
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 1636
Std Dev 0
3
2
1
0
−1
−2
−3

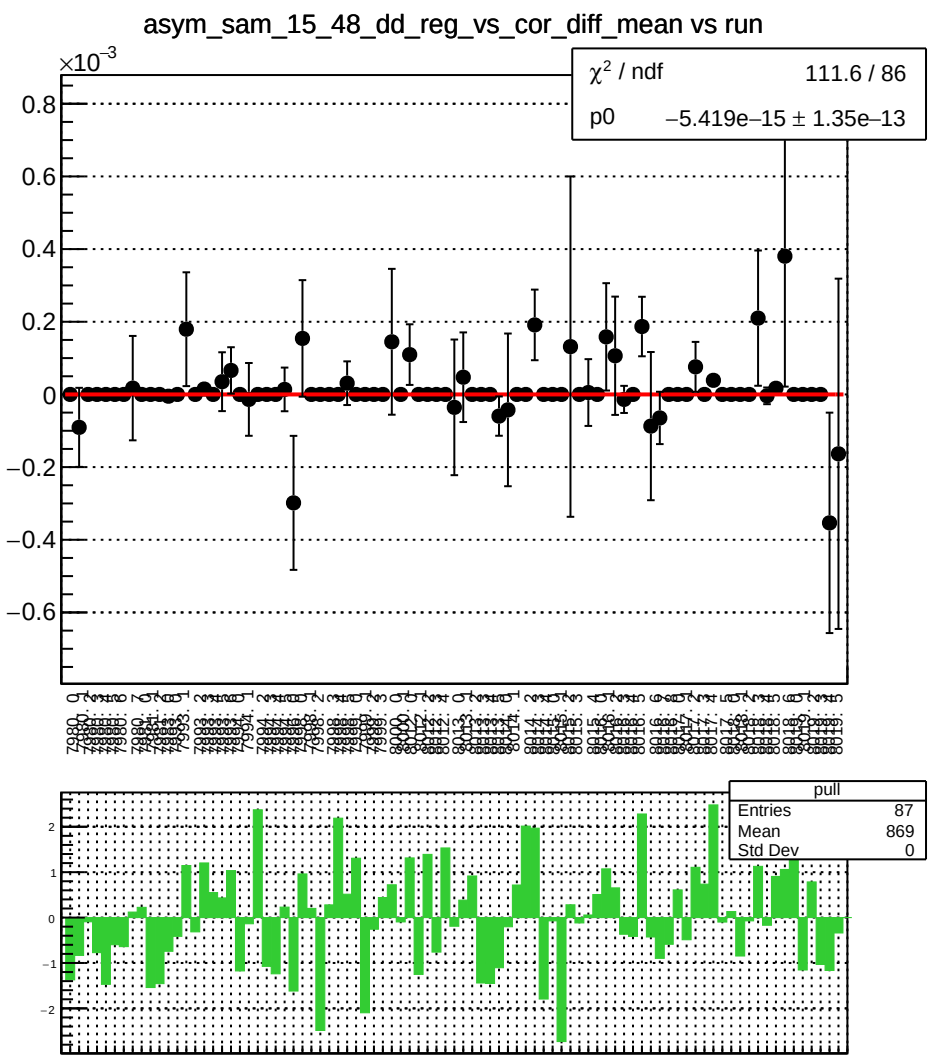

pull1D
Entries 87
Mean −0.0008189
Std Dev 1.179
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

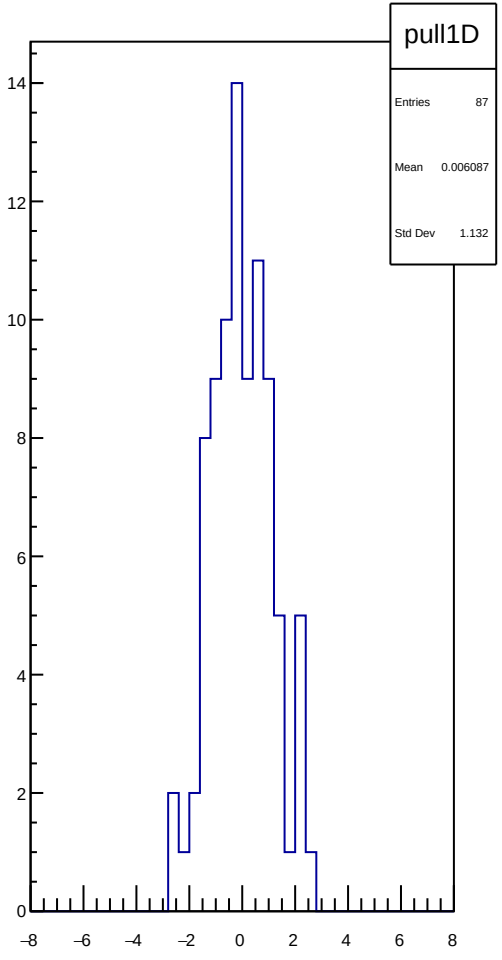

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.742e+04 / 86
p0 1077 ± 0.8205
1400
1300
1200
1100
1000
900

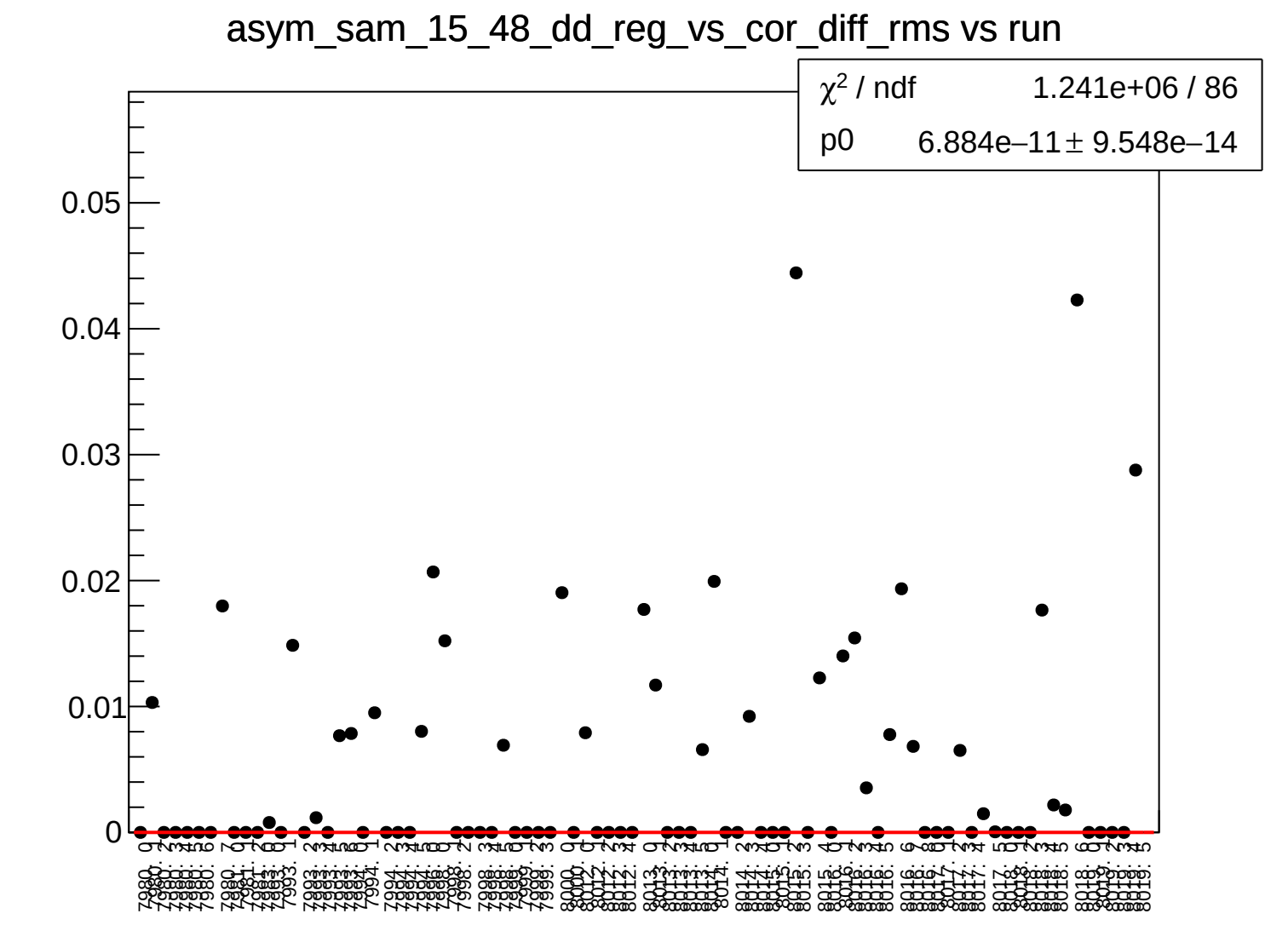

asym_sam_15_48_dd_mean vs run
χ² / ndf 121.2 / 86
p0 981.7 ± 1127
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −66.91
Std Dev 0
3
2
1
0
−1
−2
−3

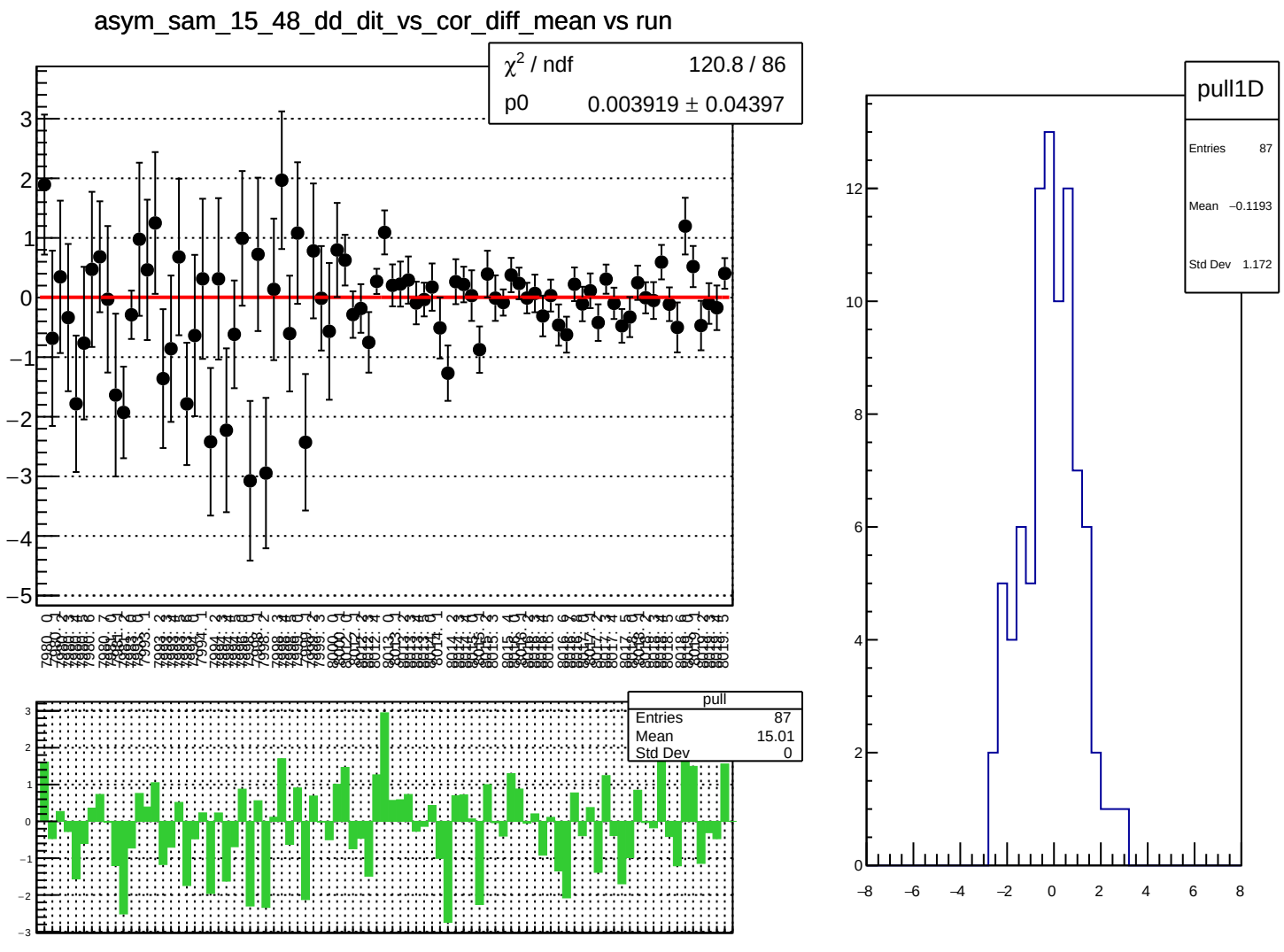

pull1D
Entries 87
Mean −0.01044
Std Dev 1.18
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

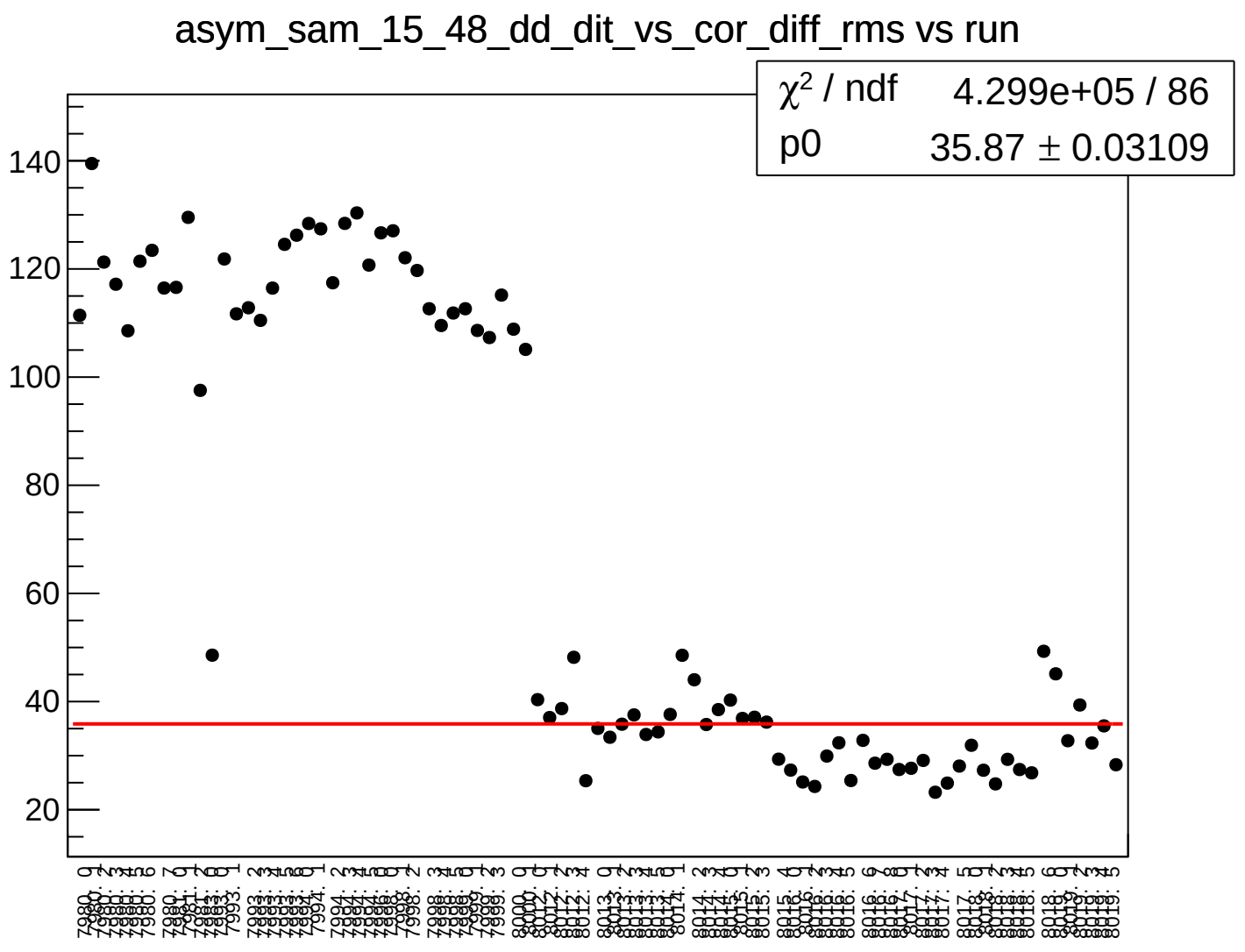

asym_sam_15_48_dd_rms vs run
χ² / ndf 3.673e+04 / 86
p0 1046 ± 0.797
1600
1500
1400
1300
1200
1100
1000
900

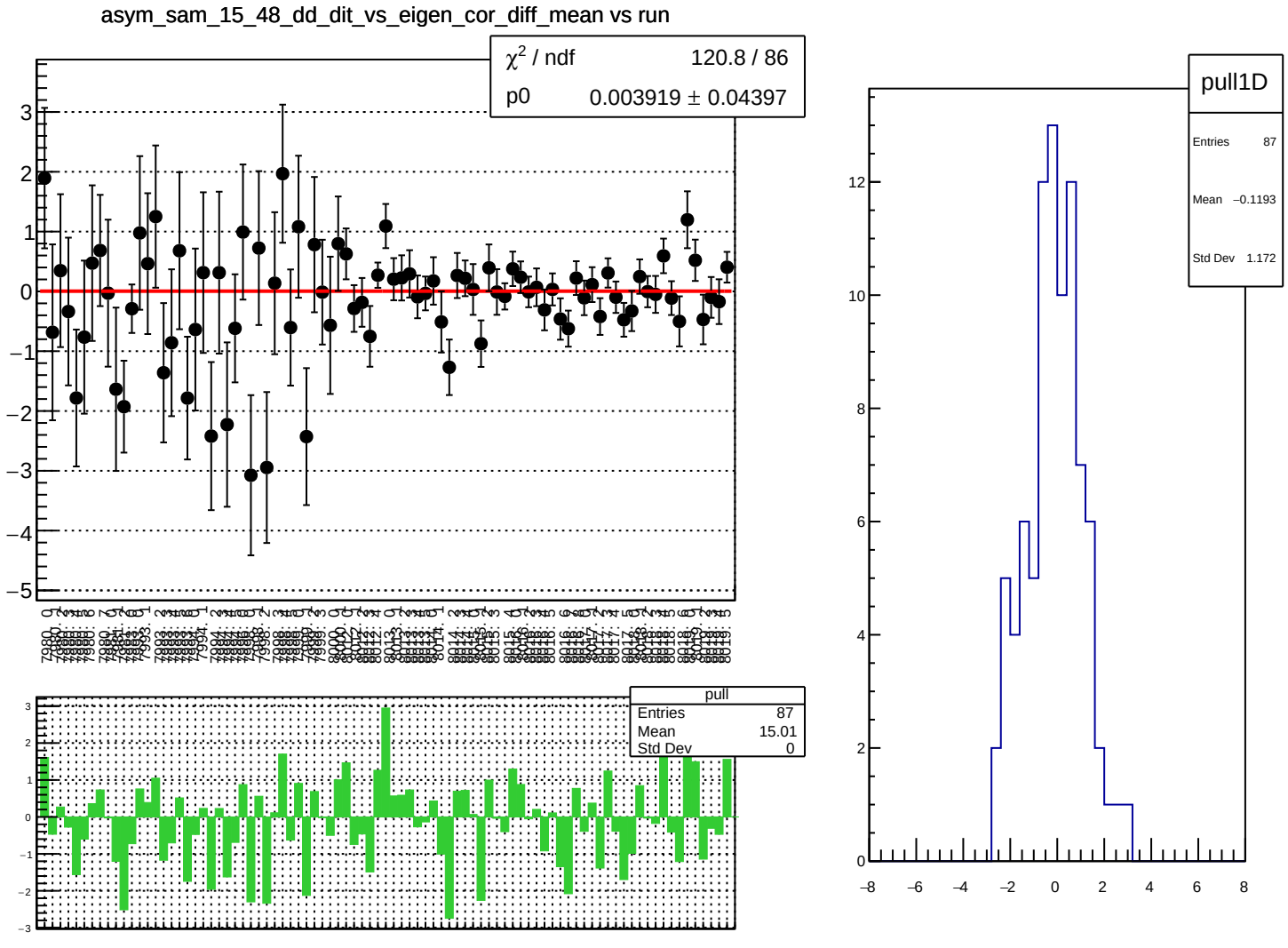

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 111.6 / 86
p0 −5.419e−15 ± 1.35e−13
pull
Entries 87
Mean 869
Std Dev 0

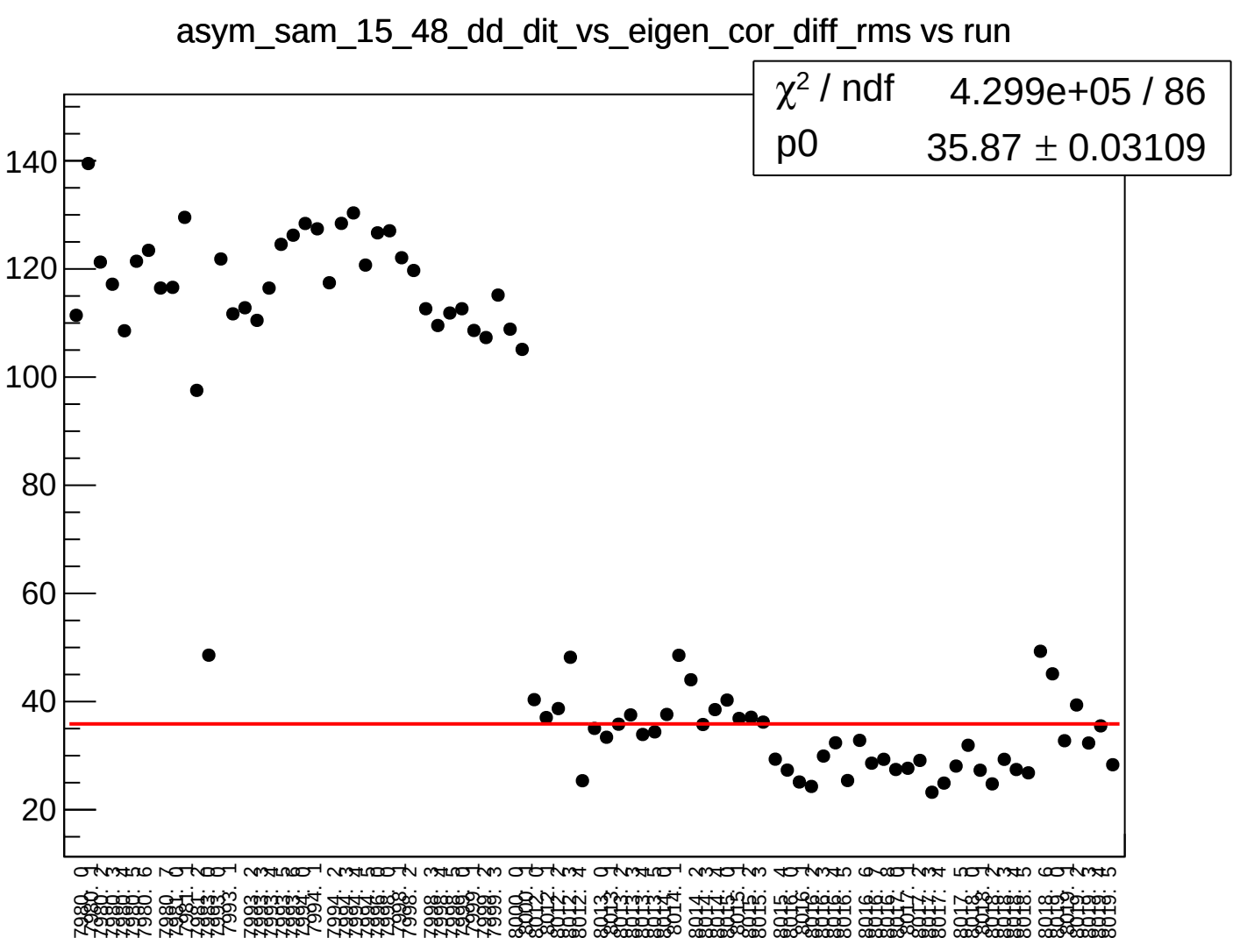

pull1D
Entries 87
Mean 0.006087
Std Dev 1.132

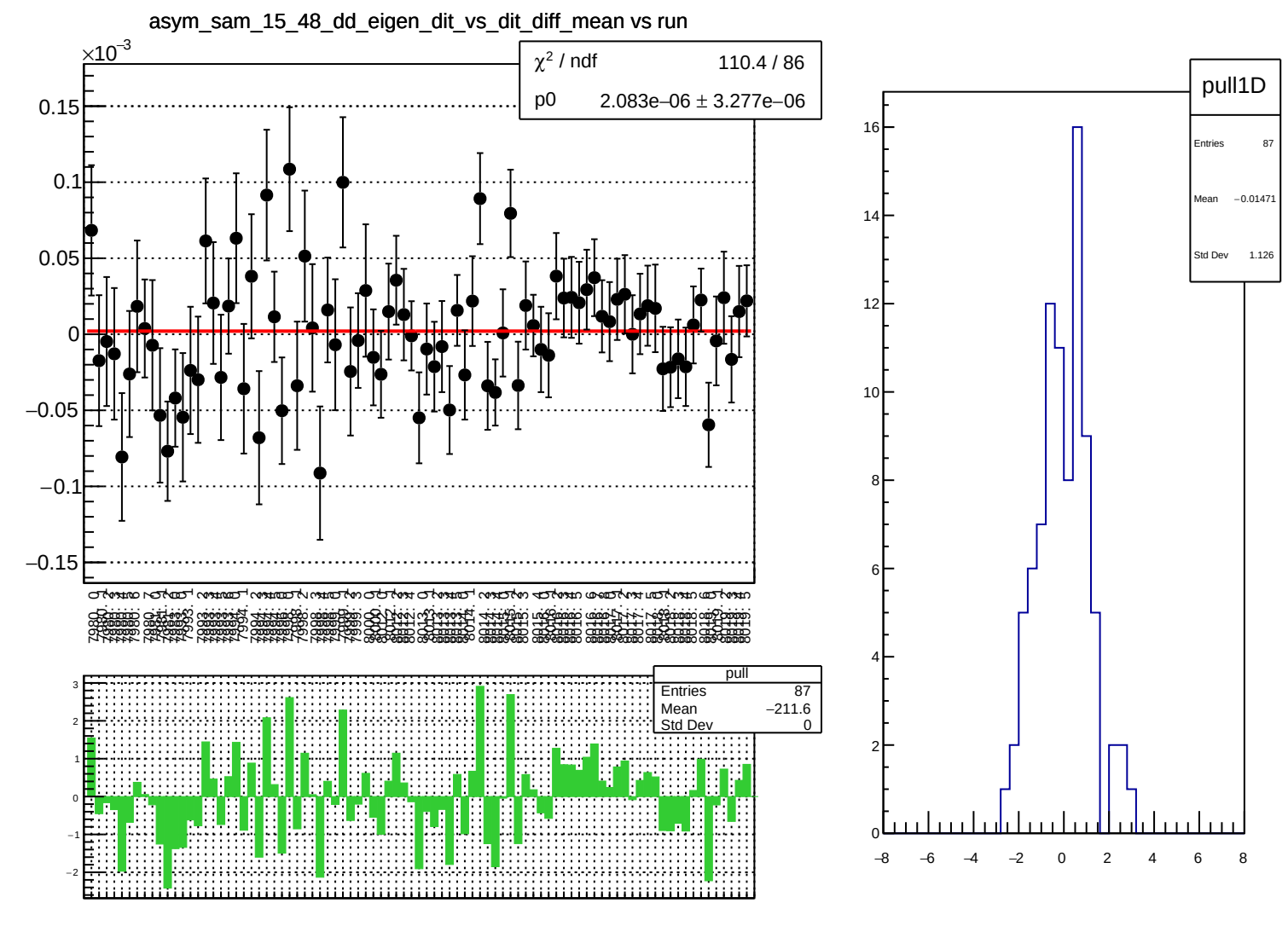

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.241e+06 / 86
p0 6.884e−11 ± 9.548e−14
0.05
0.04
0.03
0.02
0.01
0

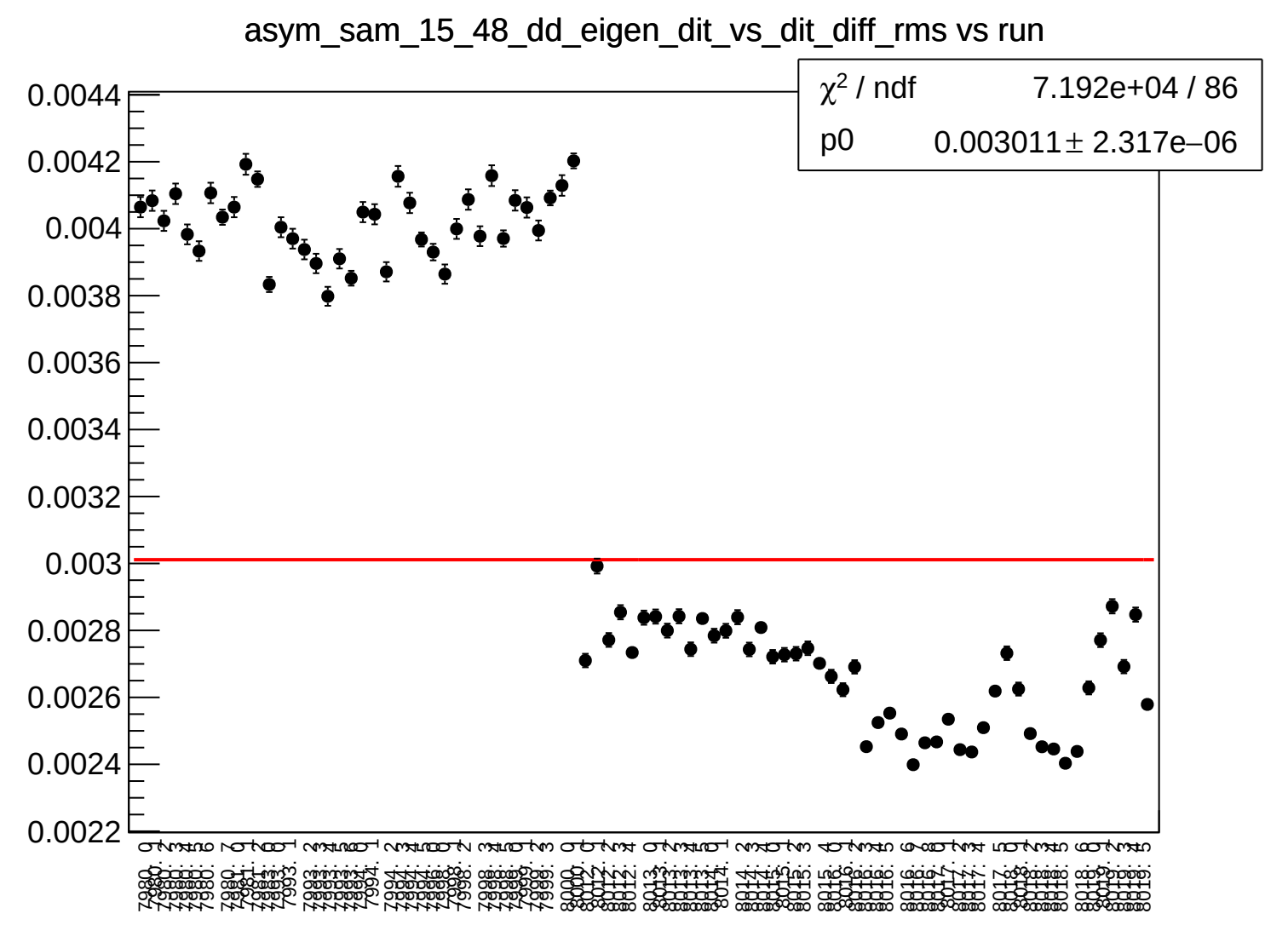

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 120.8 / 86
p0 0.003919 ± 0.04397
pull
Entries 87
Mean 15.01
Std Dev 0
pull1D
Entries 87
Mean −0.1193
Std Dev 1.172

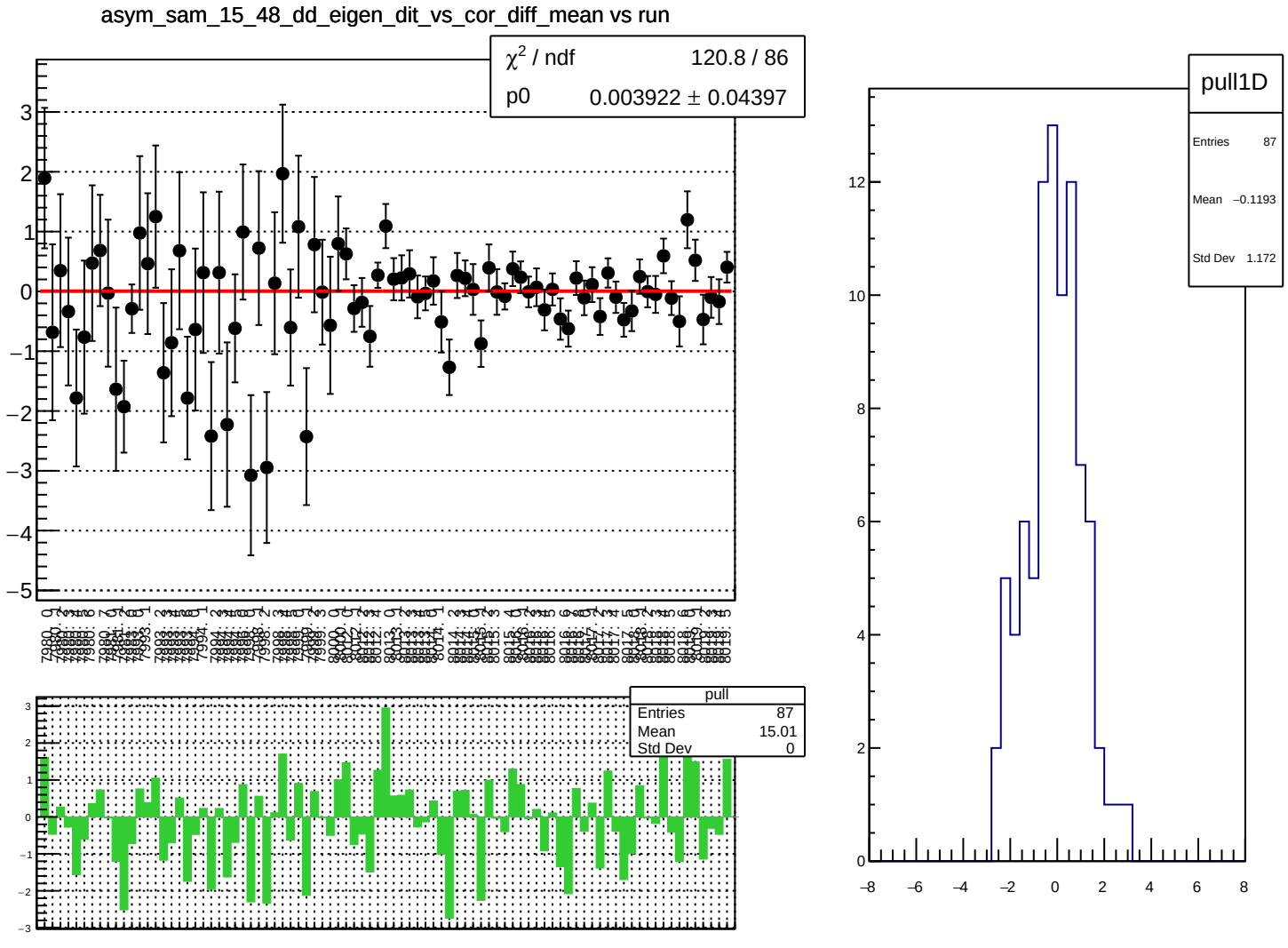

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.299e+05 / 86
p0 35.87 ± 0.03109
140
120
100
80
60
40
20

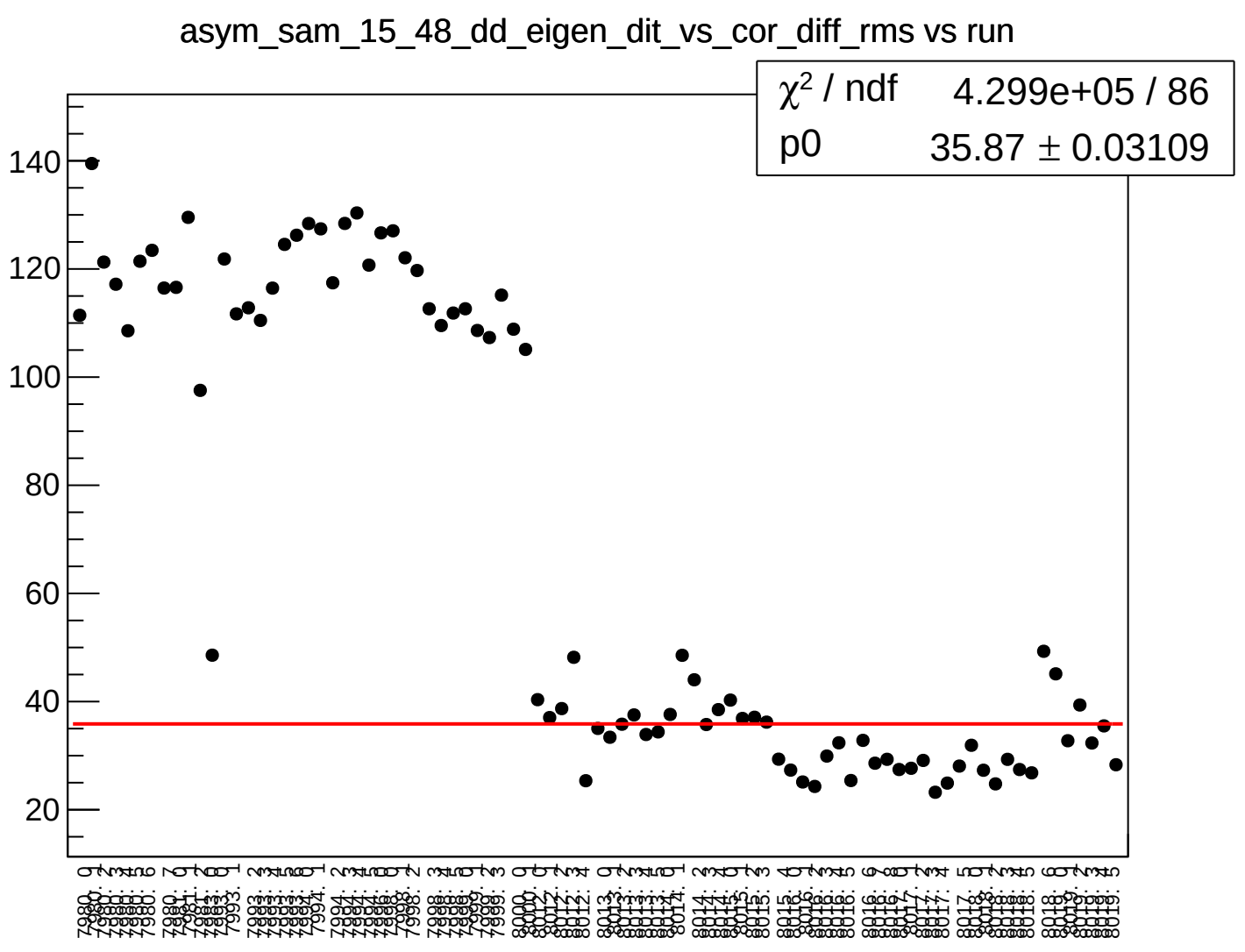

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.8 / 86
p0 0.003919 ± 0.04397
pull
Entries 87
Mean 15.01
Std Dev 0
pull1D
Entries 87
Mean −0.1193
Std Dev 1.172

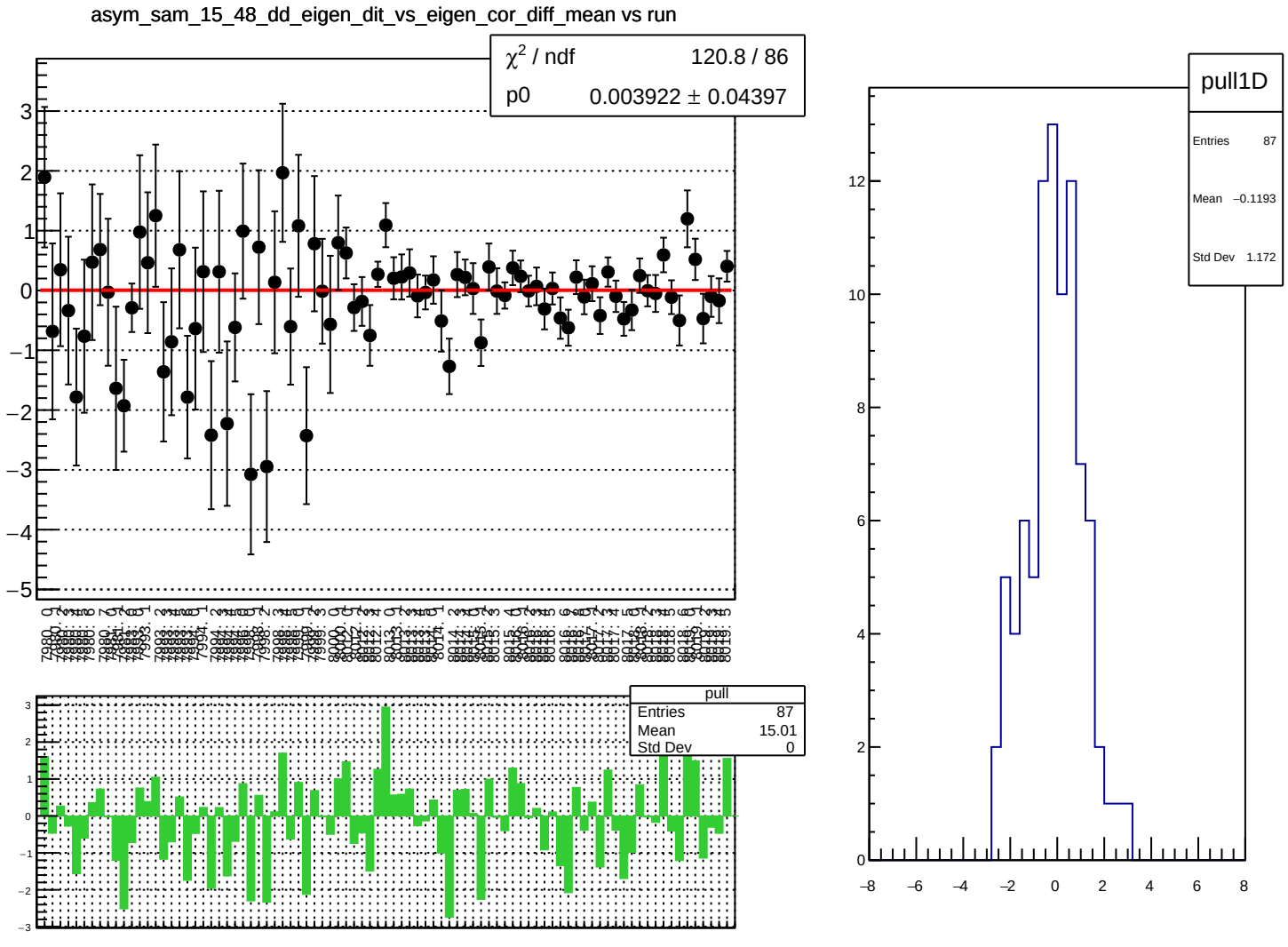

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.299e+05 / 86
p0 35.87 ± 0.03109
140
120
100
80
60
40
20

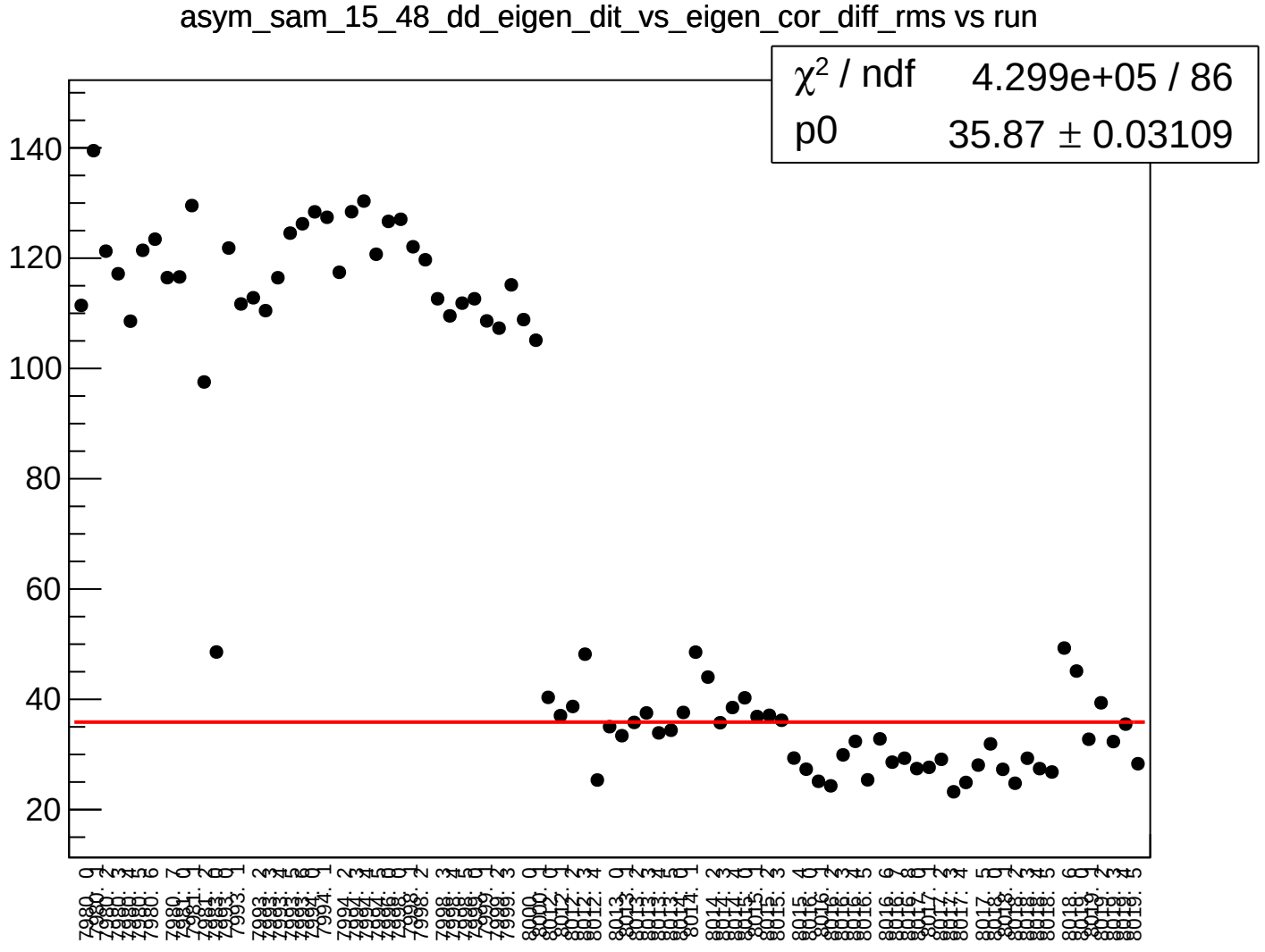

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 110.4 / 86
p0 2.083e−06 ± 3.277e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean −211.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01471
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

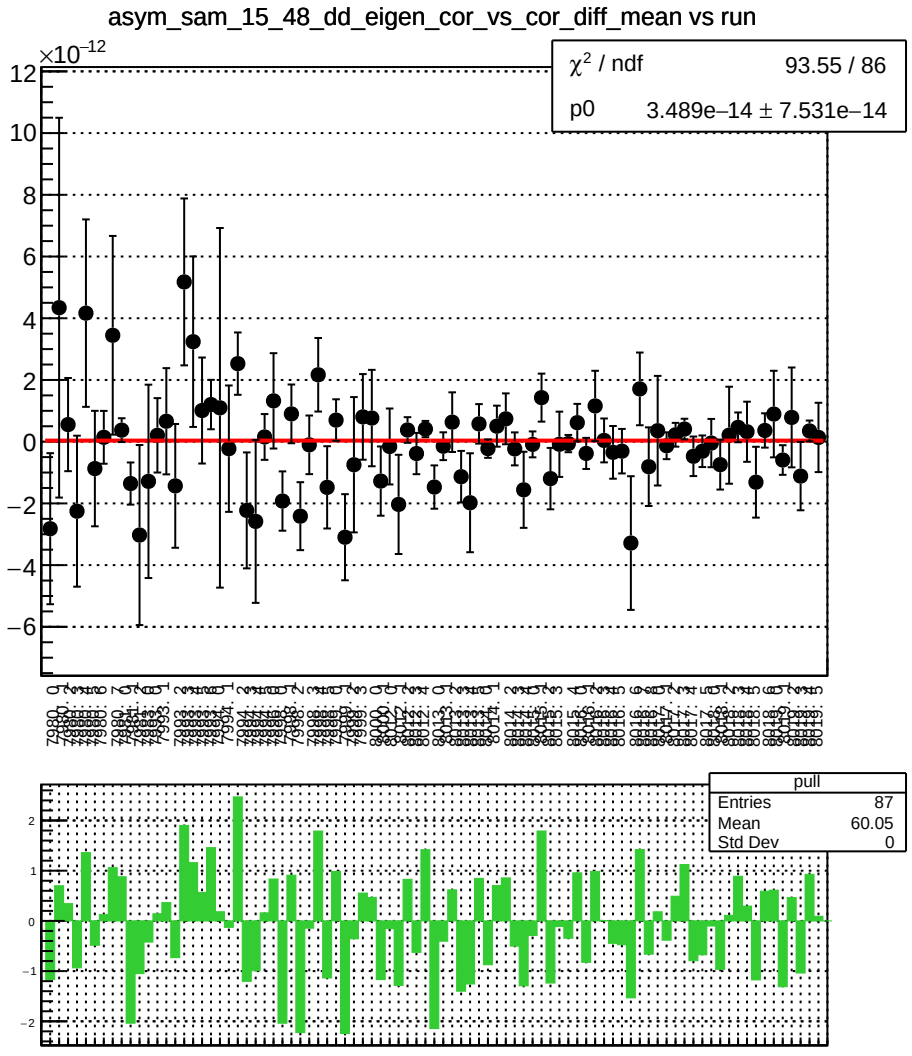

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.192e+04 / 86
p0 0.003011 ± 2.317e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

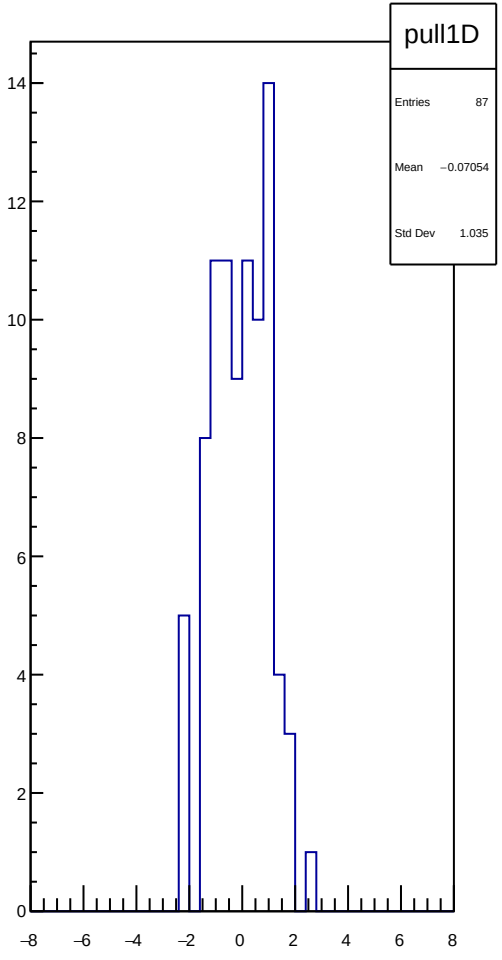

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 120.8 / 86
p0 0.003922 ± 0.04397
pull
Entries 87
Mean 15.01
Std Dev 0
pull1D
Entries 87
Mean −0.1193
Std Dev 1.172

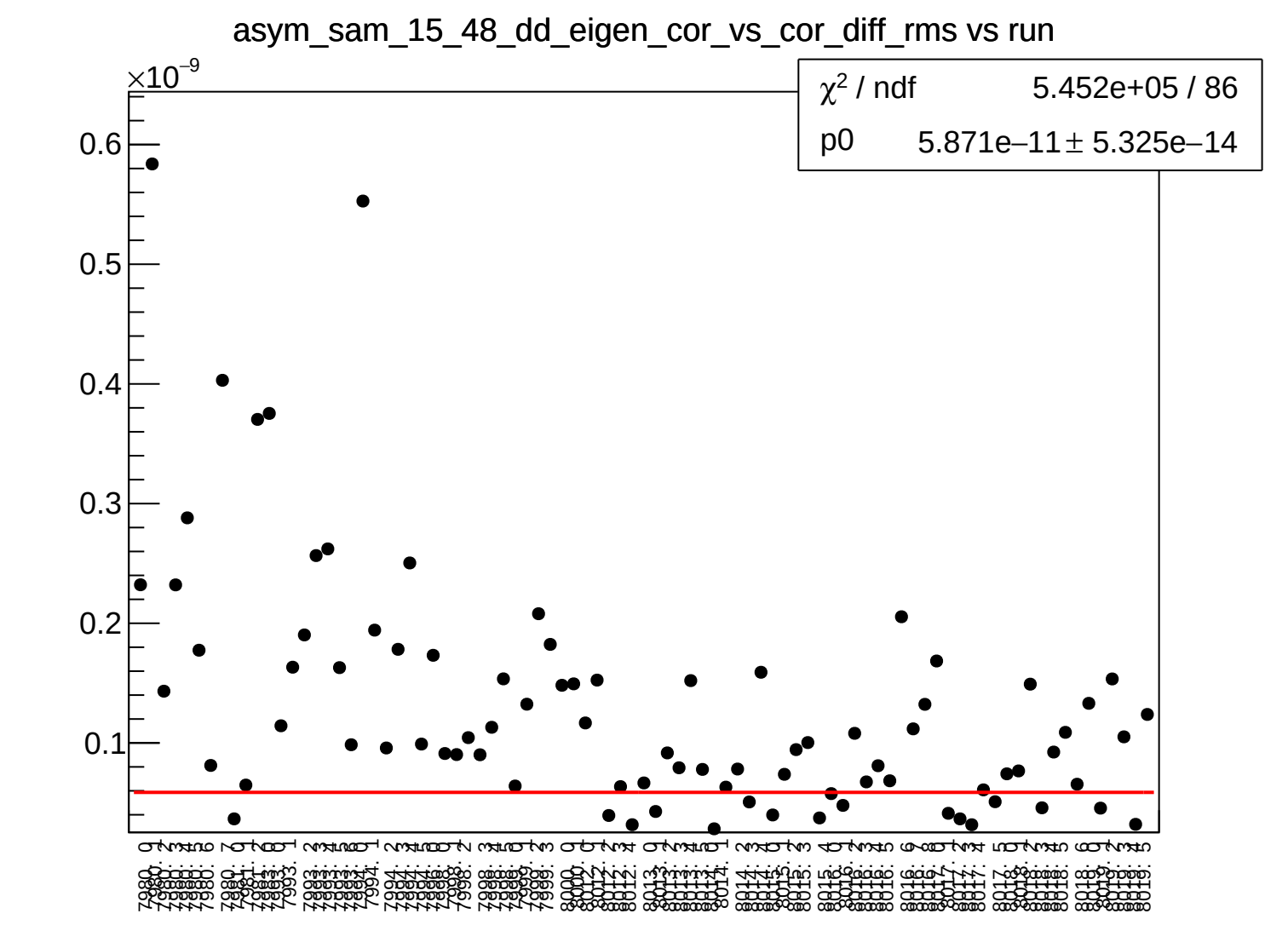

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.299e+05 / 86
p0 35.87 ± 0.03109
140
120
100
80
60
40
20

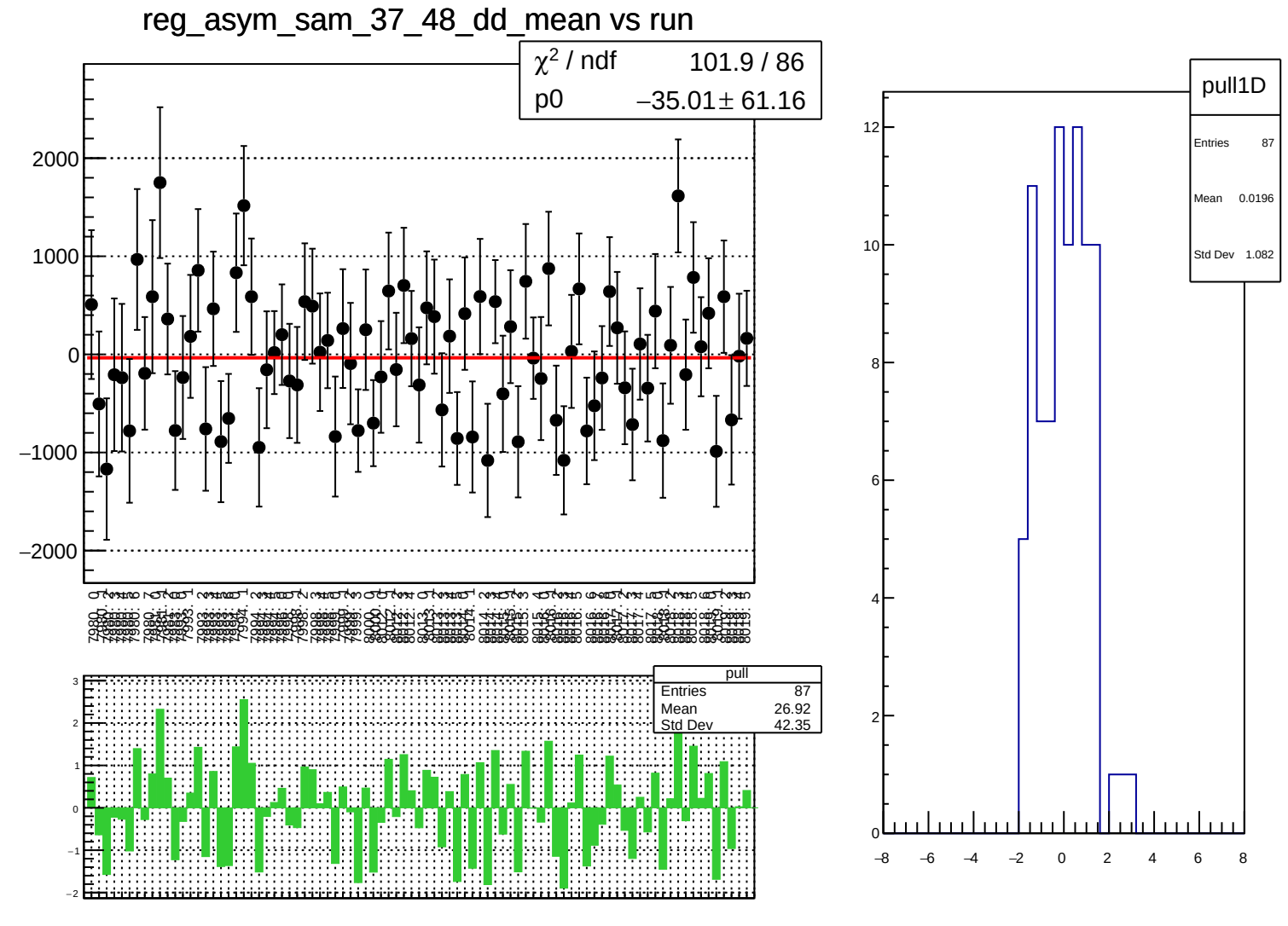

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.8 / 86
p0 0.003922 ± 0.04397
pull
Entries 87
Mean 15.01
Std Dev 0
pull1D
Entries 87
Mean −0.1193
Std Dev 1.172

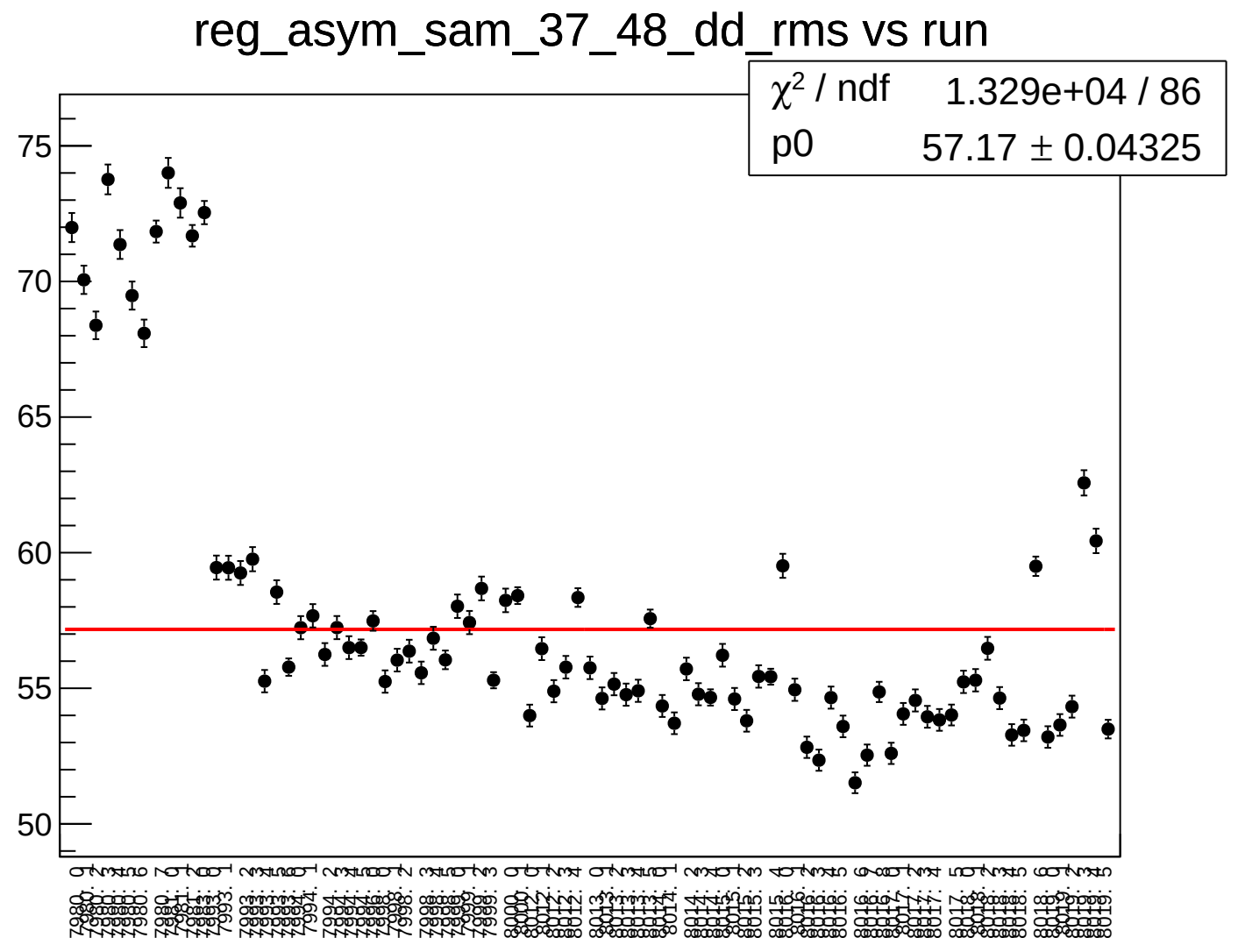

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.299e+05 / 86
p0 35.87 ± 0.03109
140
120
100
80
60
40
20

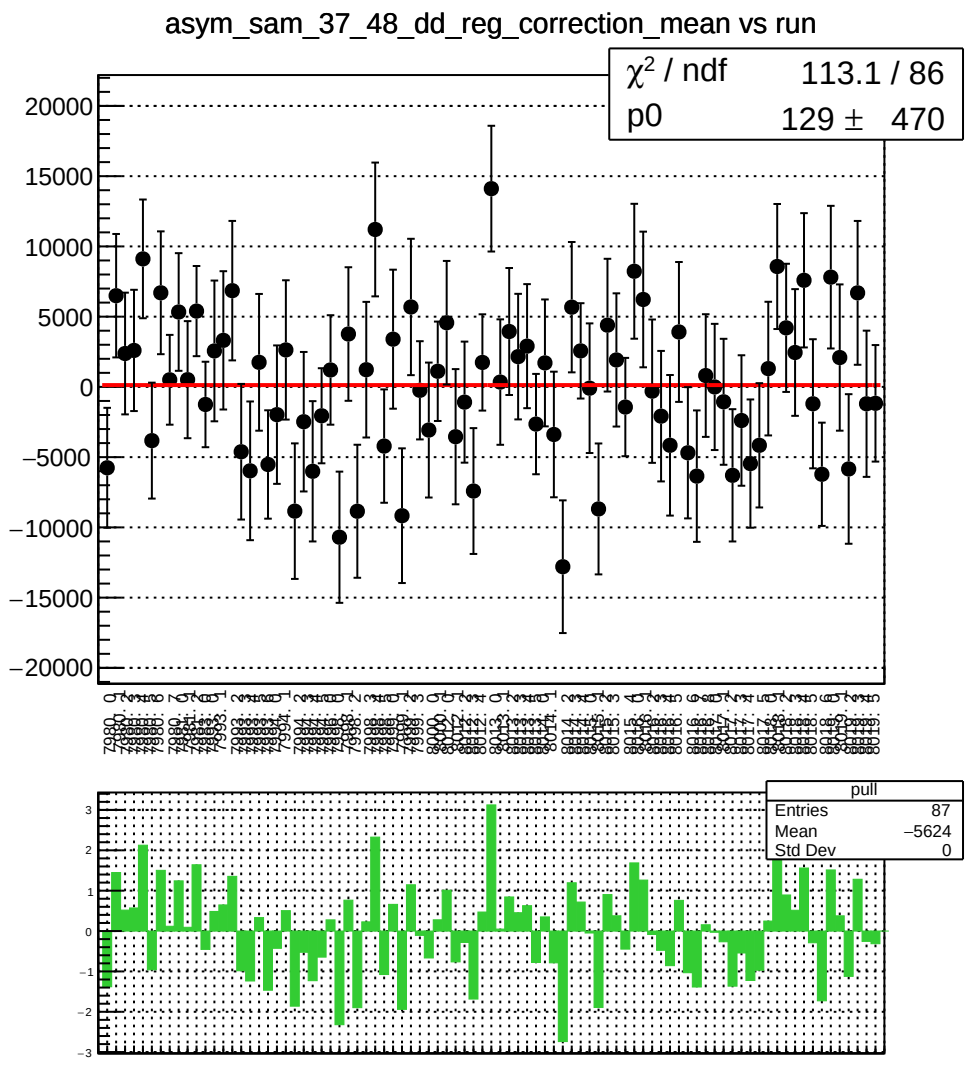

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.55 / 86
p0 3.489e−14 ± 7.531e−14
pull
Entries 87
Mean 60.05
Std Dev 0

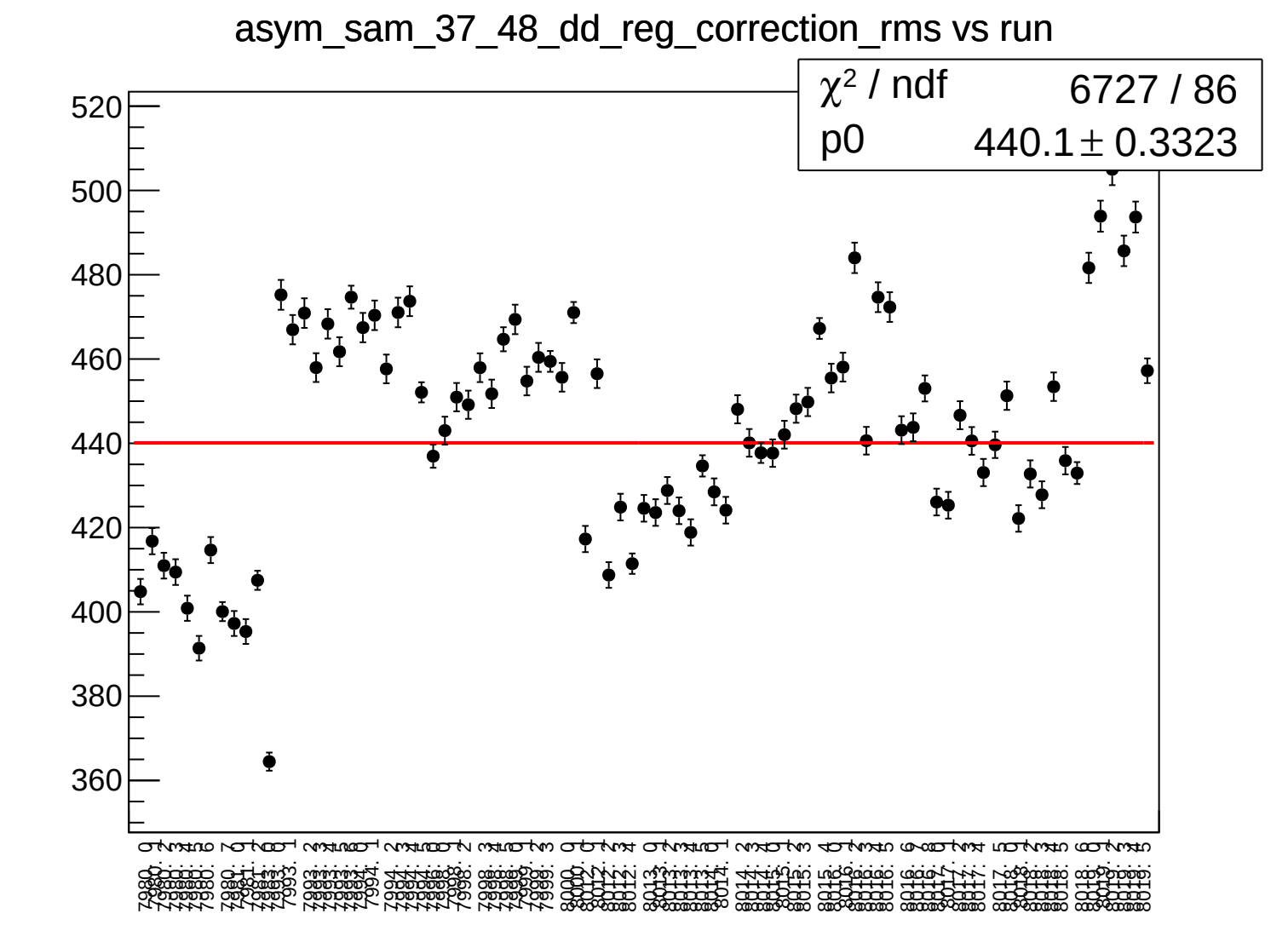

pull1D
Entries 87
Mean −0.07054
Std Dev 1.035

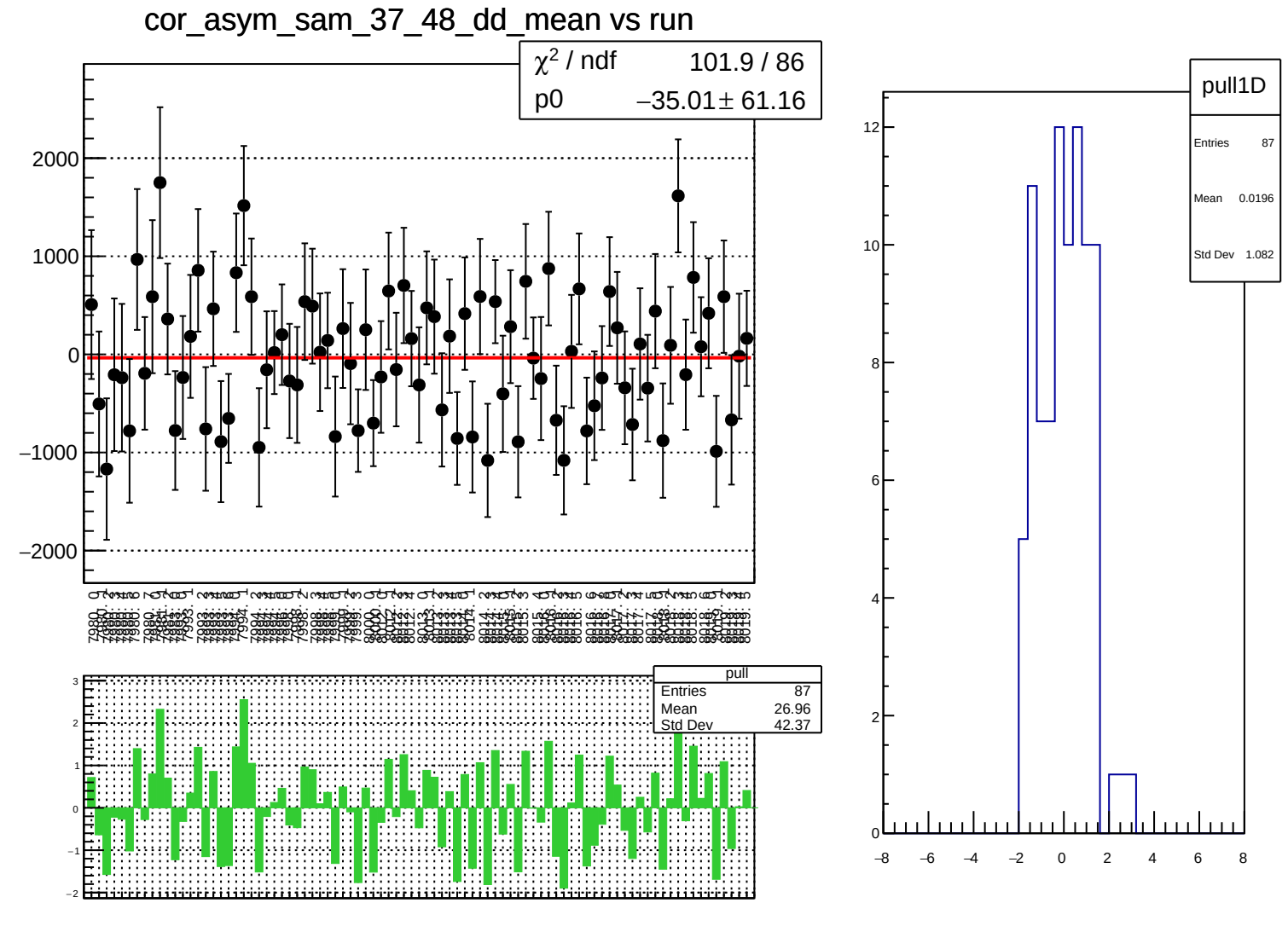

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.452e+05 / 86
p0 5.871e−11 ± 5.325e−14
0.6
0.5
0.4
0.3
0.2
0.1

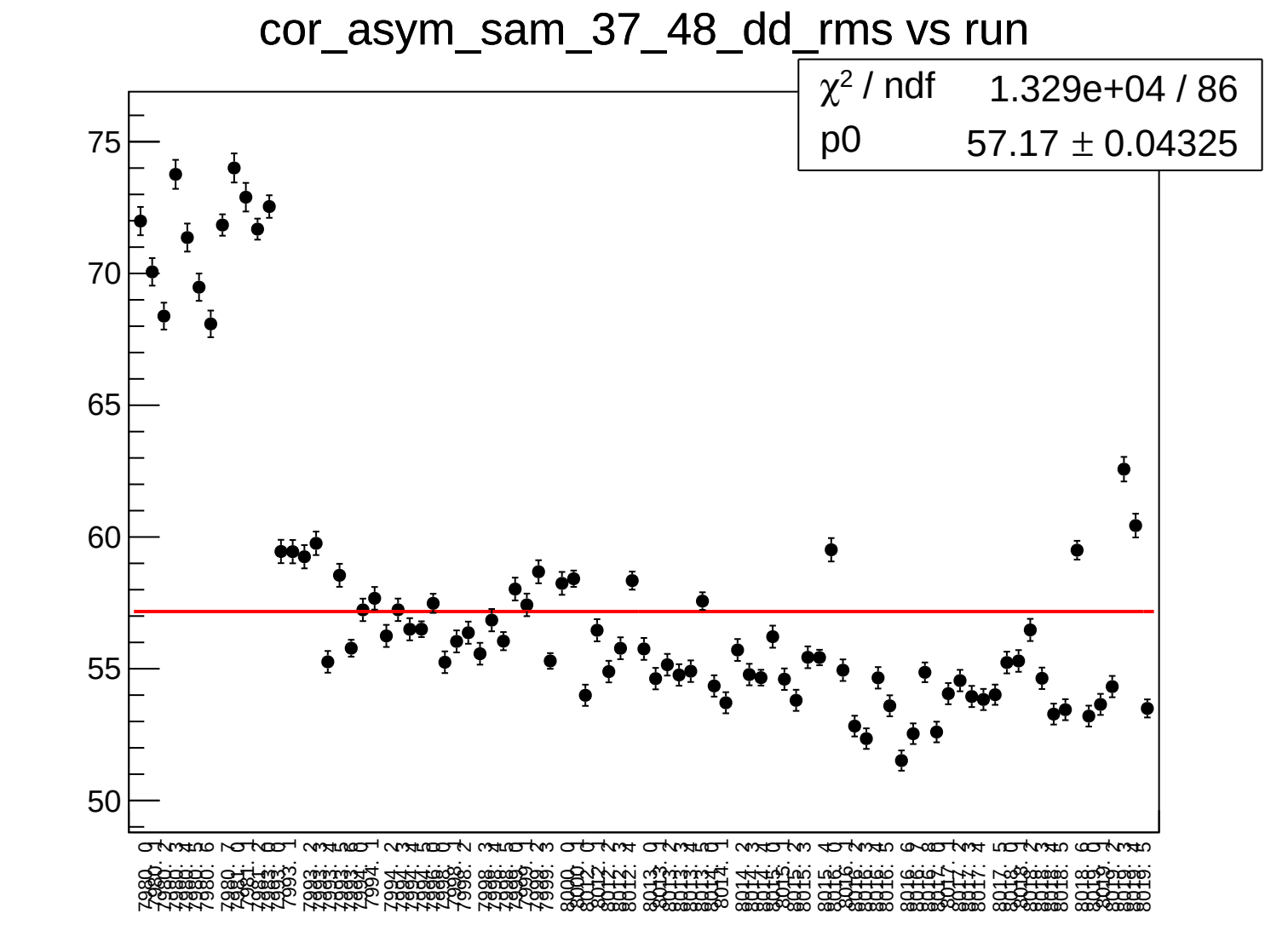

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 101.9 / 86
p0 −35.01 ± 61.16
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 26.92
Std Dev 42.35
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.0196
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

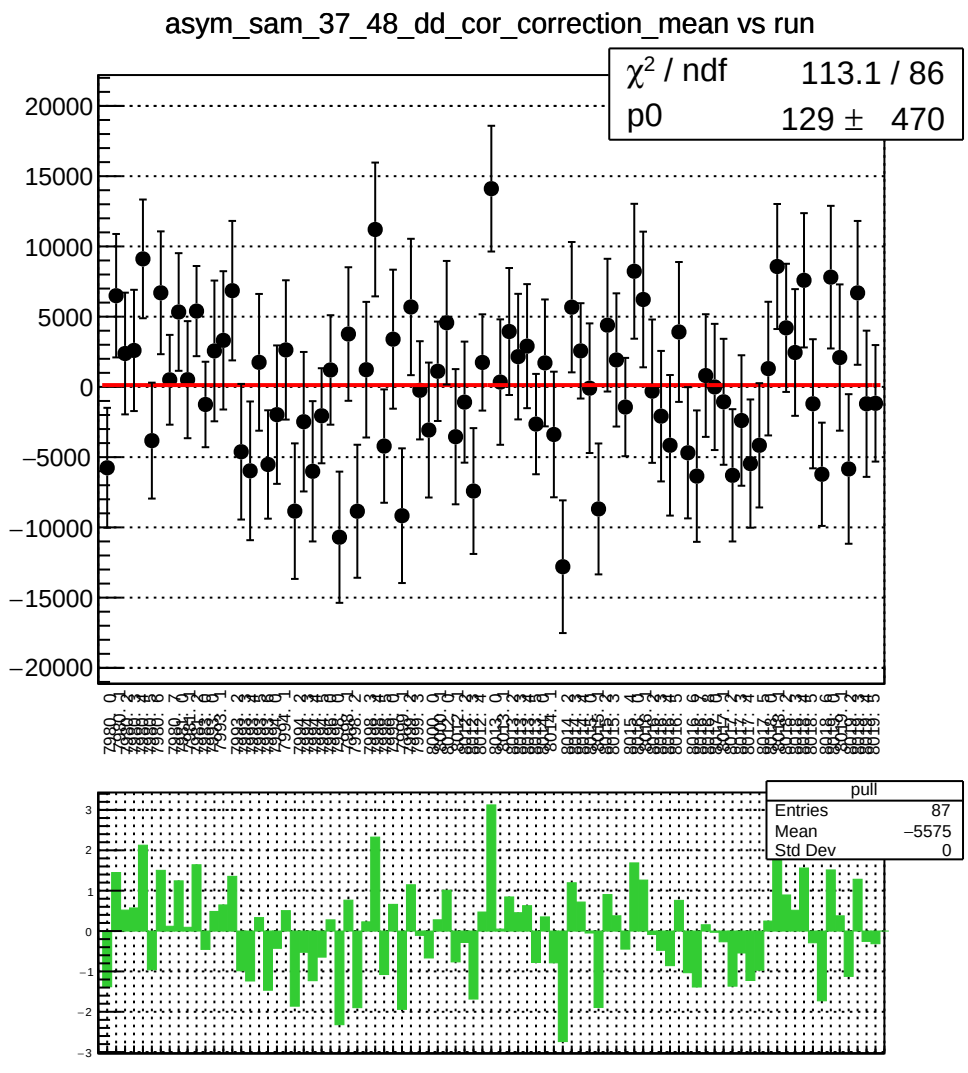

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.329e+04 / 86
p0 57.17 ± 0.04325
75
70
65
60
55
50

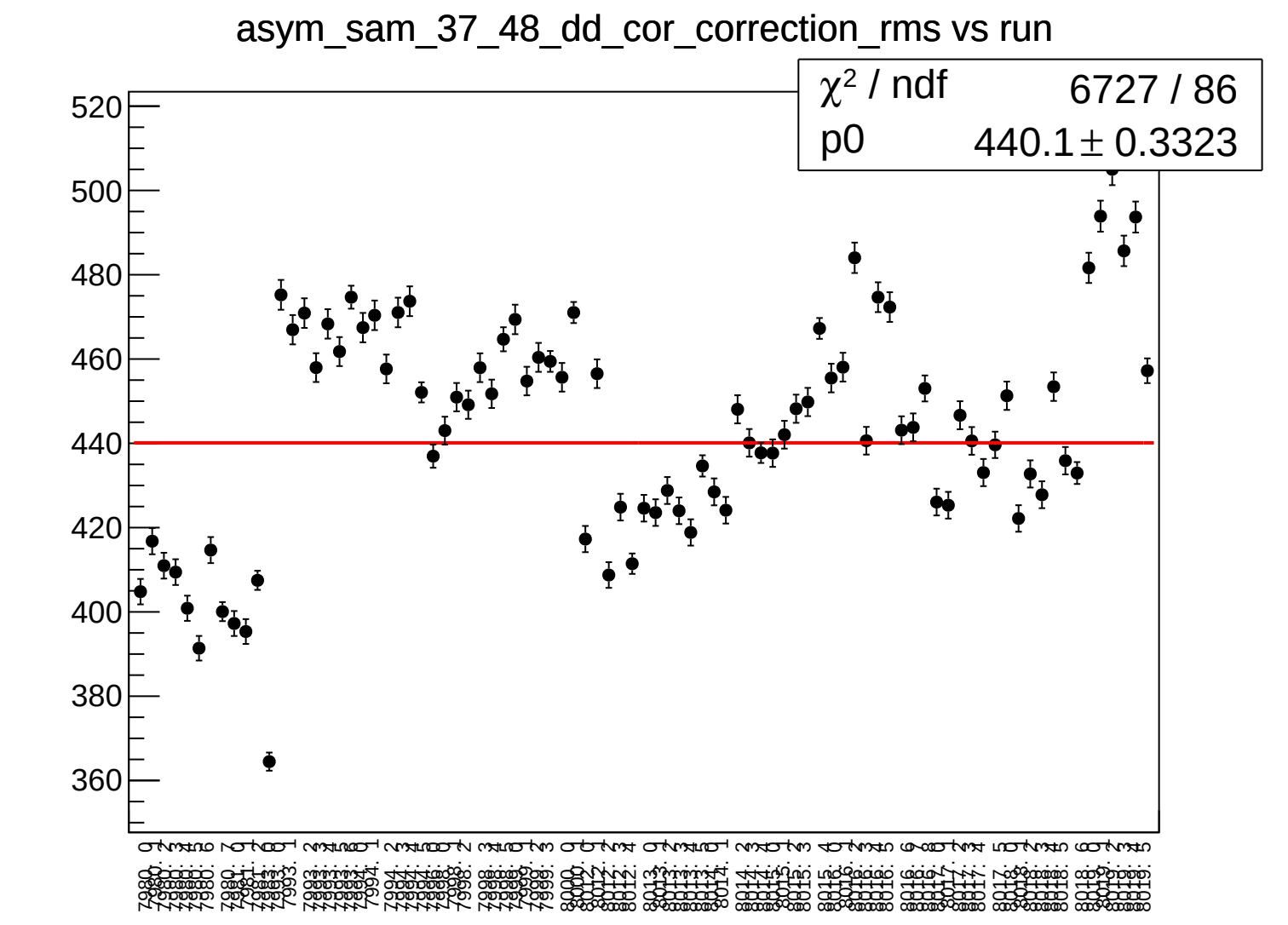

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 113.1 / 86
p0 129 ± 470
pull
Entries 87
Mean −5624
Std Dev 0
pull1D
Entries 87
Mean 0.0002105
Std Dev 1.14

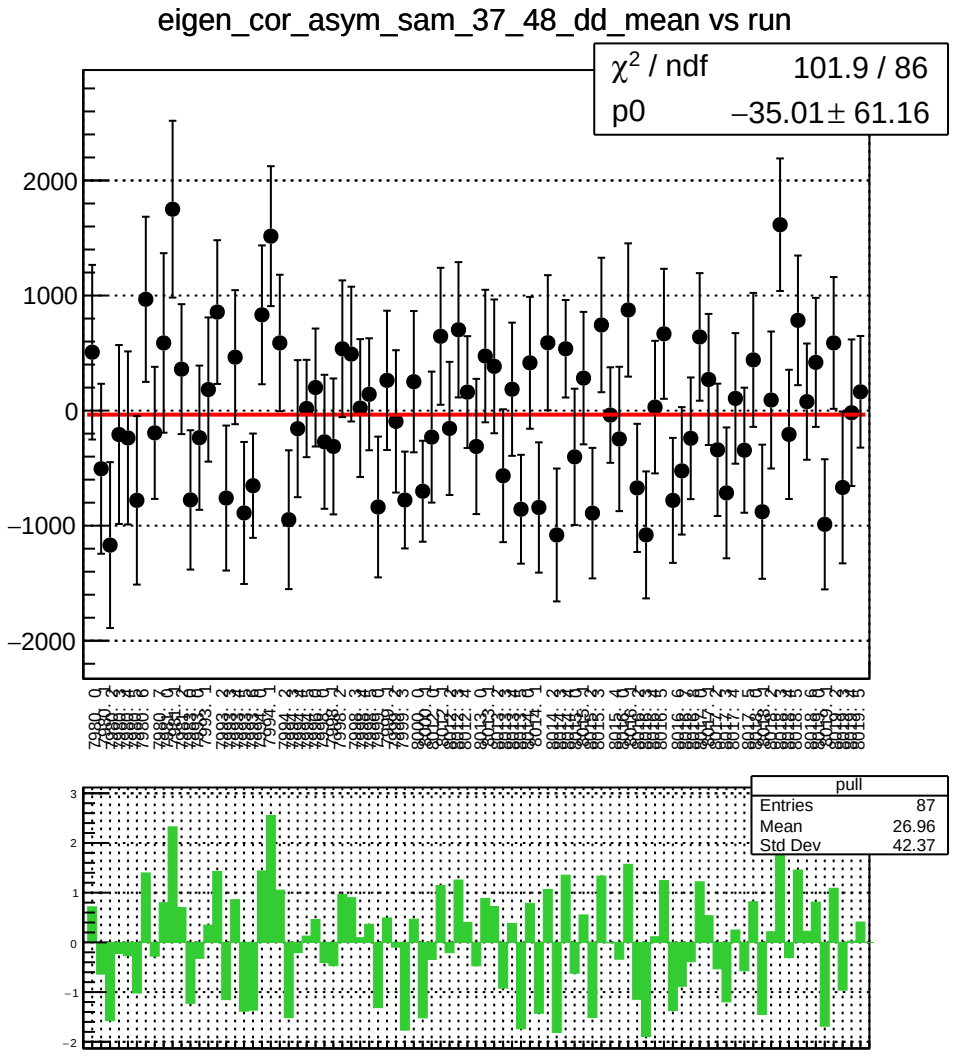

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 6727 / 86
p0 440.1 ± 0.3323
520
500
480
460
440
420
400
380
360

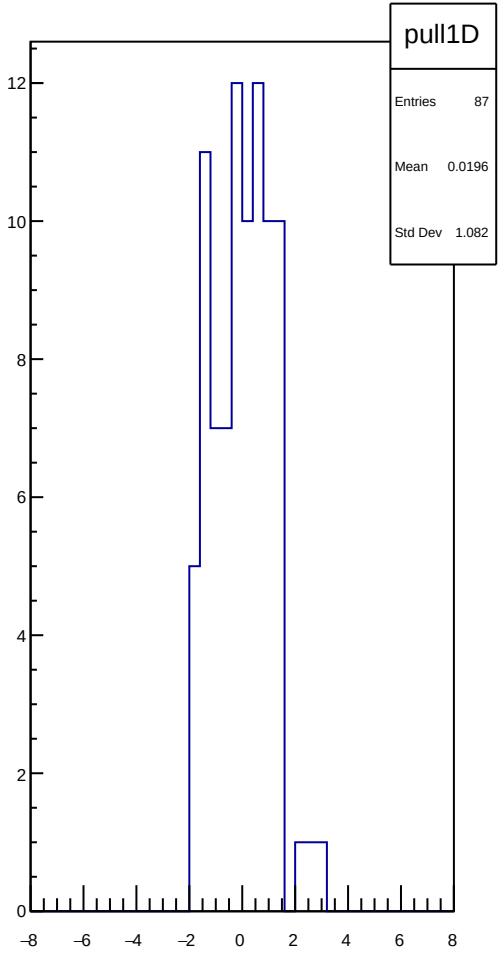

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 101.9 / 86
p0 −35.01 ± 61.16
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 26.96
Std Dev 42.37
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.0196
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

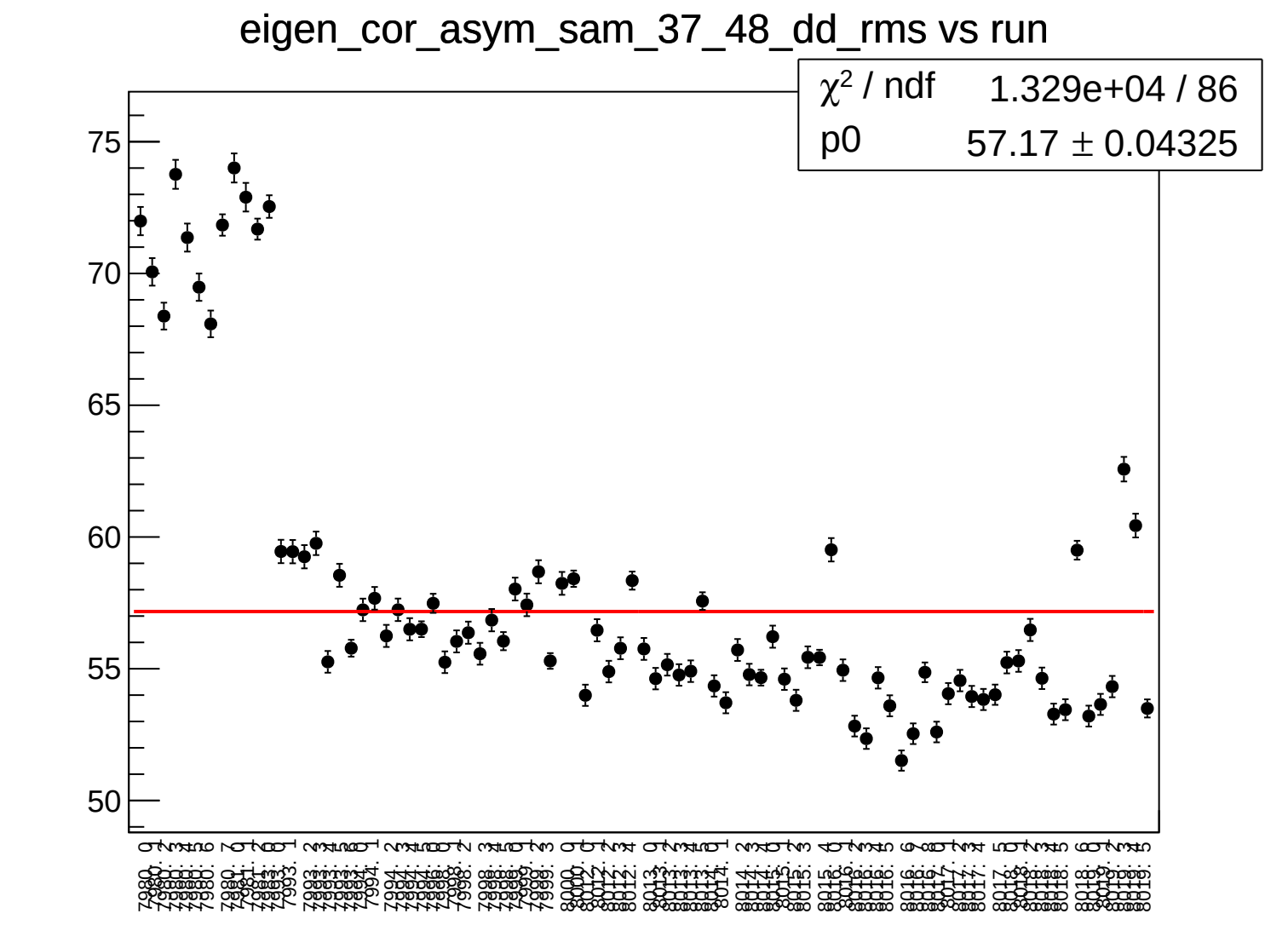

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.329e+04 / 86
p0 57.17 ± 0.04325
75
70
65
60
55
50

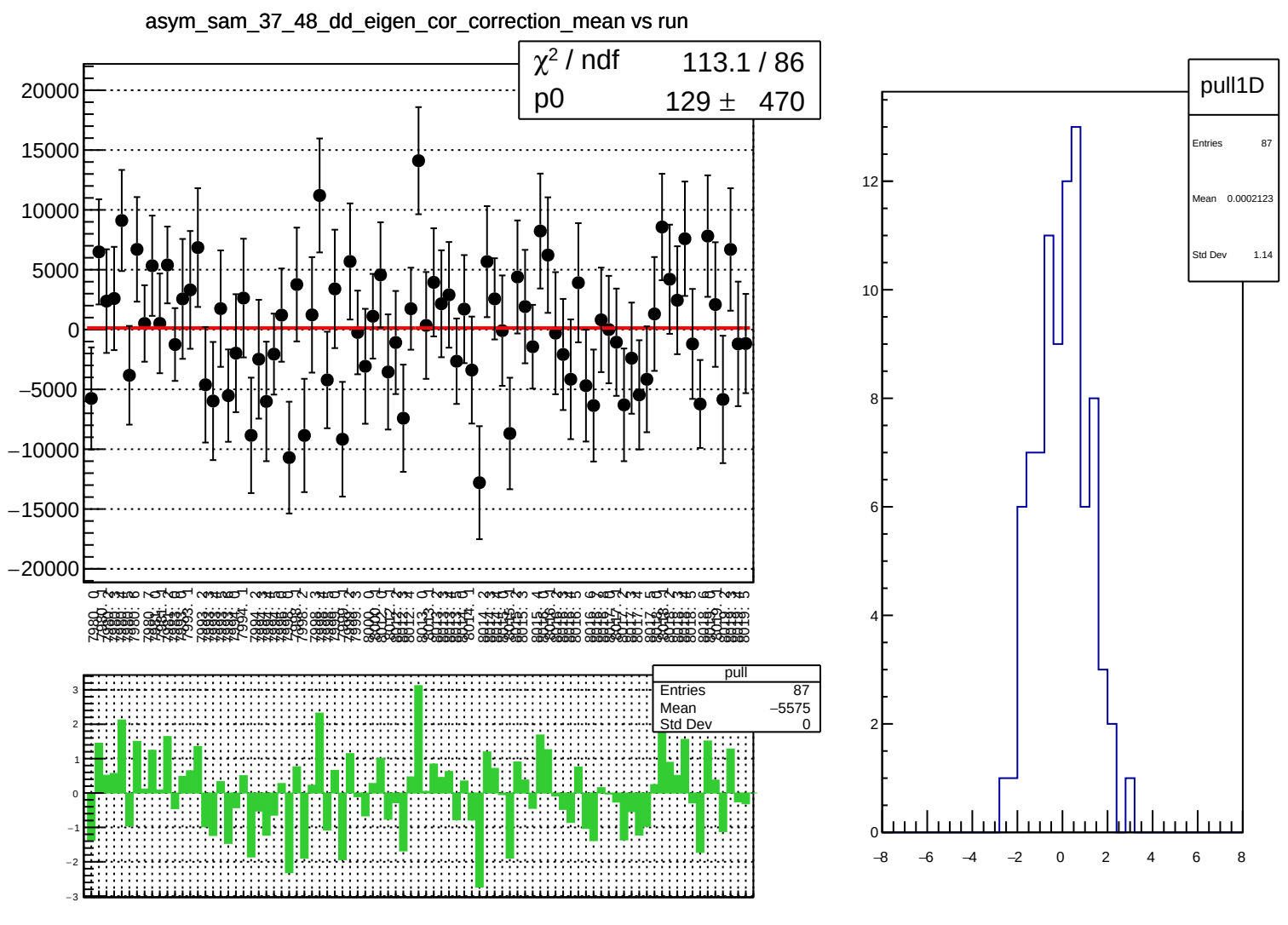

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 113.1 / 86
p0 129 ± 470
pull
Entries 87
Mean −5575
Std Dev 0
pull1D
Entries 87
Mean 0.0002123
Std Dev 1.14

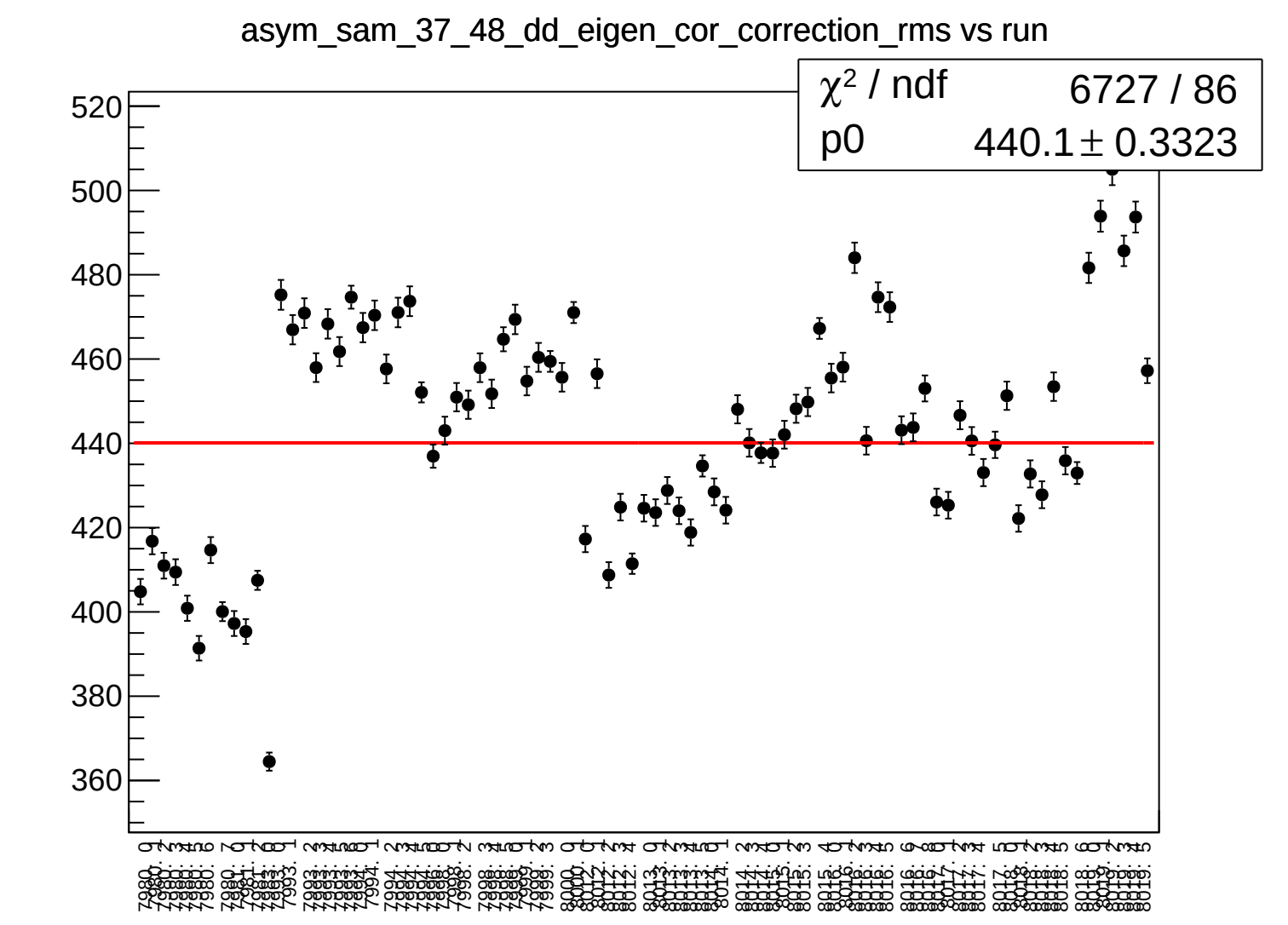

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 6727 / 86
p0 440.1 ± 0.3323
520
500
480
460
440
420
400
380
360

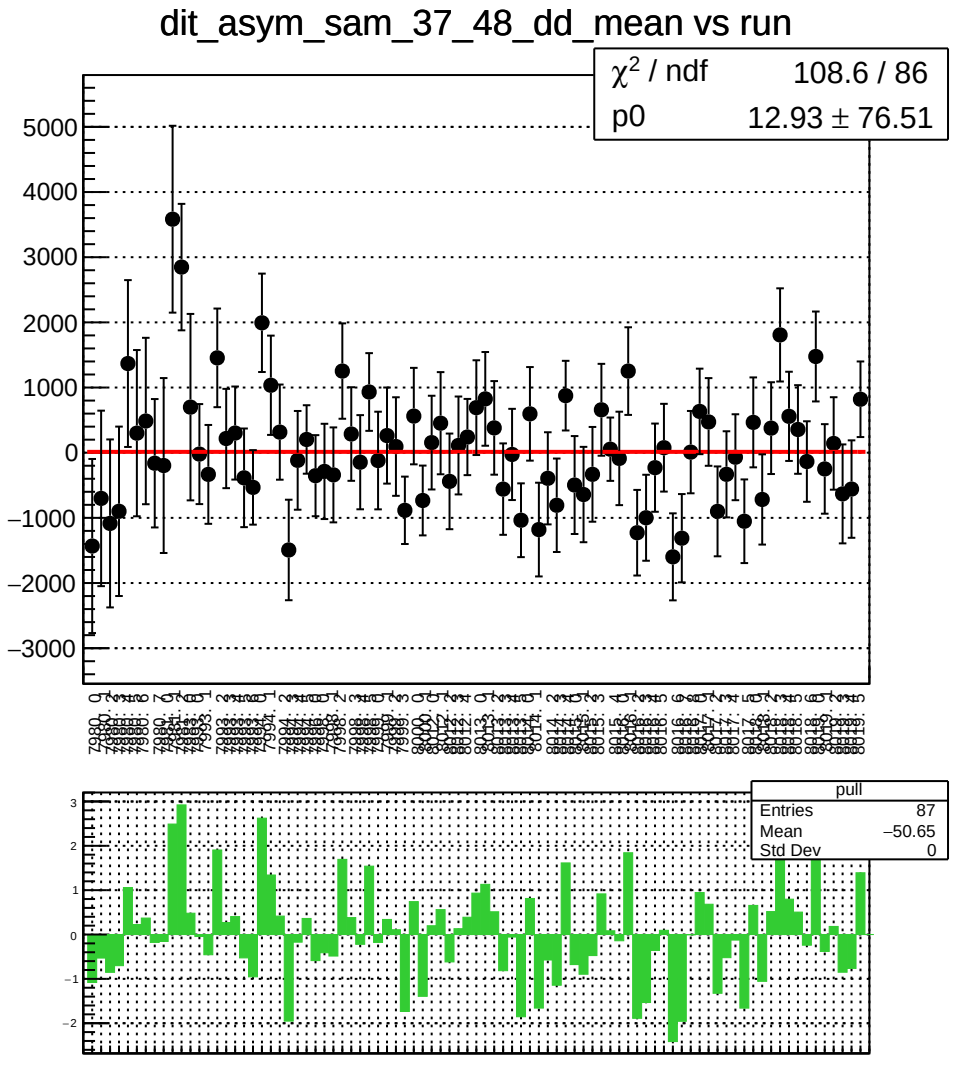

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 101.9 / 86
p0 −35.01 ± 61.16
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 26.96
Std Dev 42.37
3
2
1
0
−1
−2

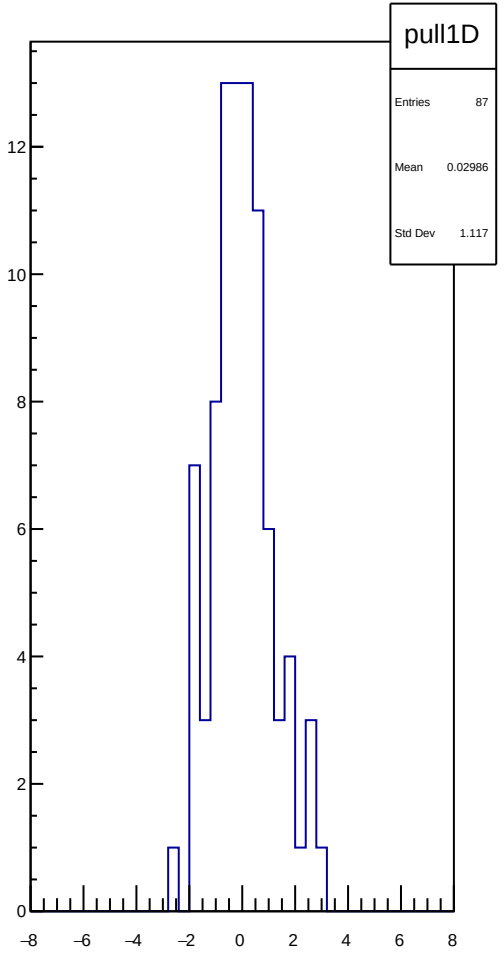

pull1D
Entries 87
Mean 0.0196
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

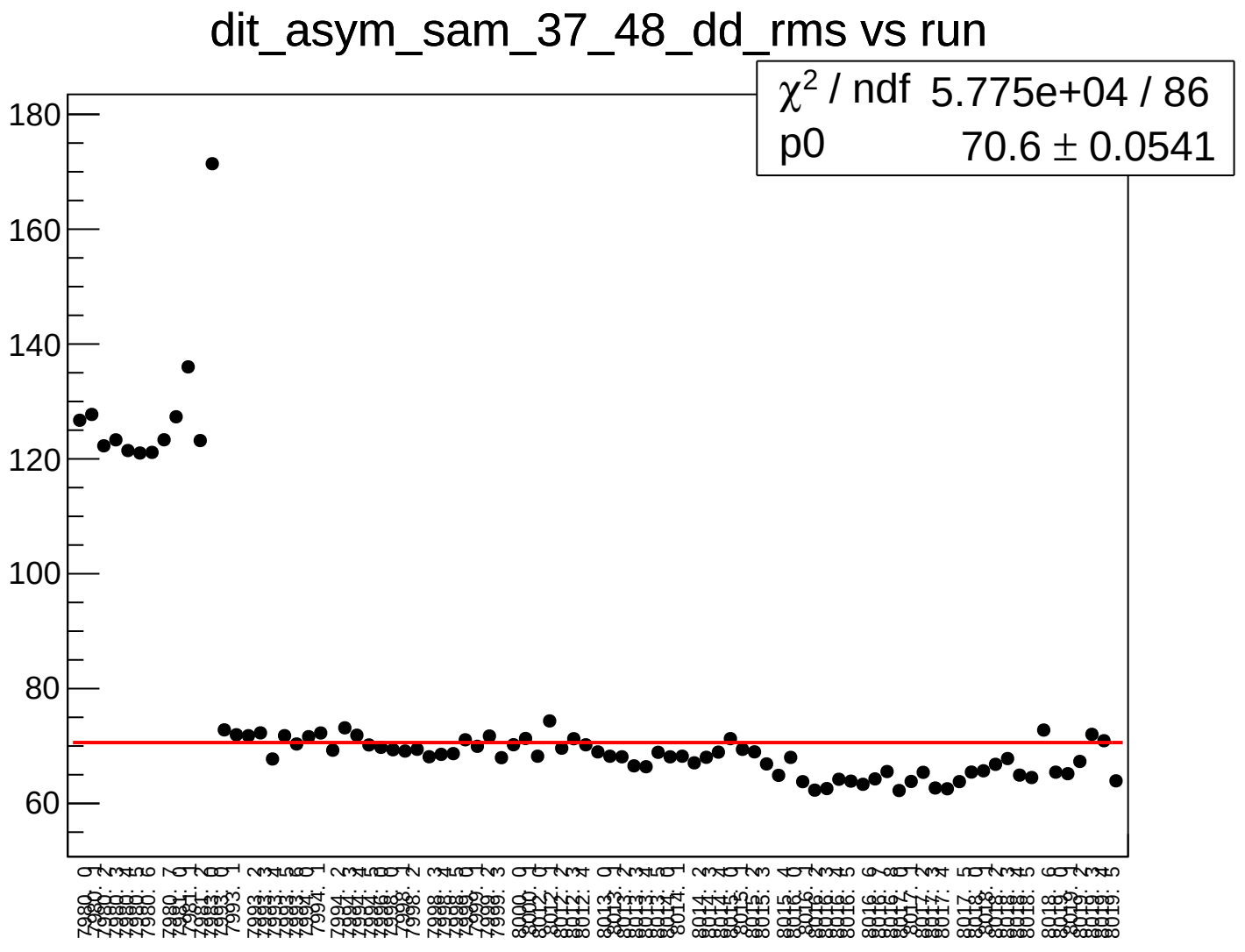

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.329e+04 / 86
p0 57.17 ± 0.04325
75
70
65
60
55
50

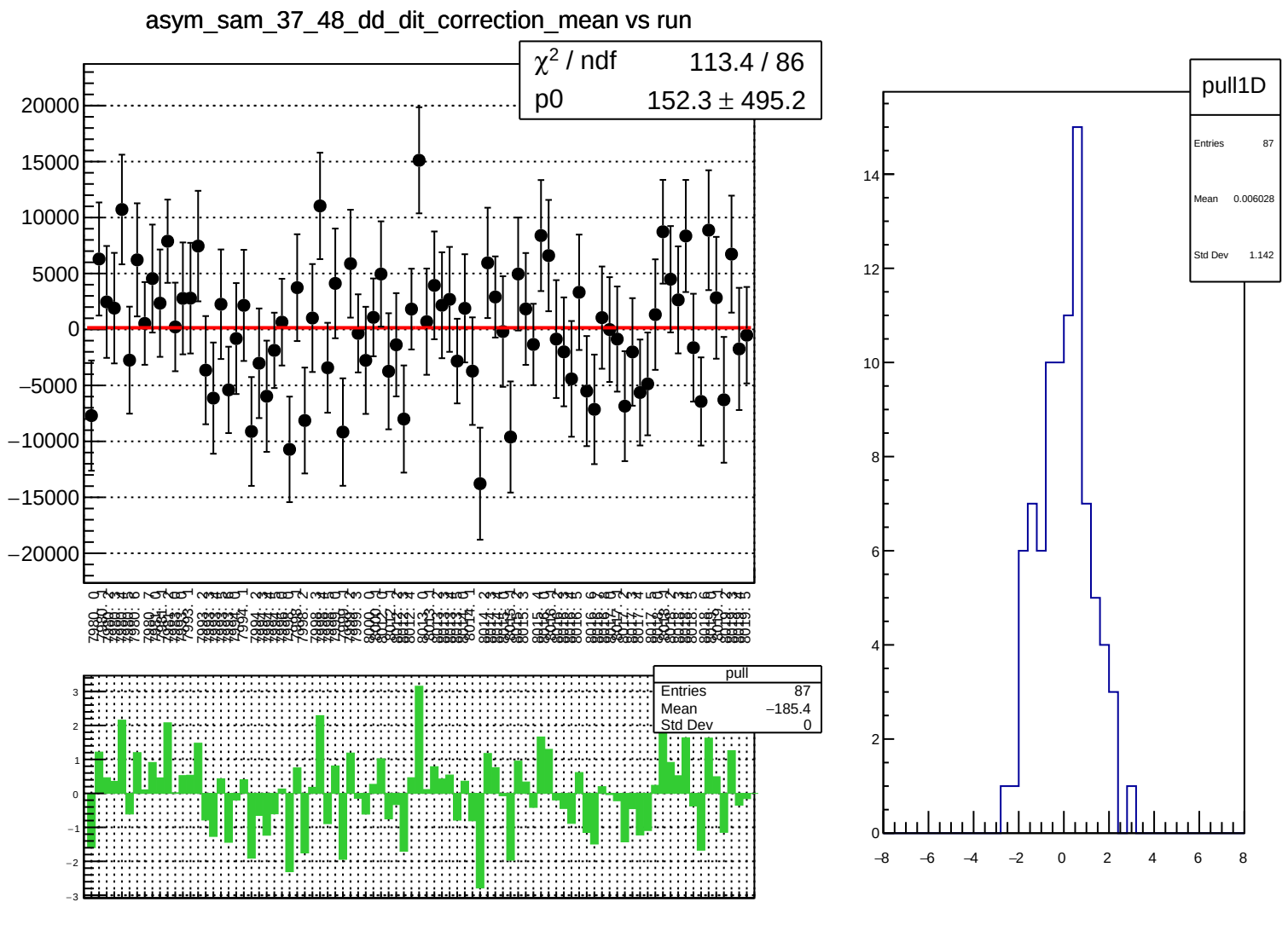

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 113.1 / 86
p0 129 ± 470
pull
Entries 87
Mean −5575
Std Dev 0
pull1D
Entries 87
Mean 0.0002123
Std Dev 1.14

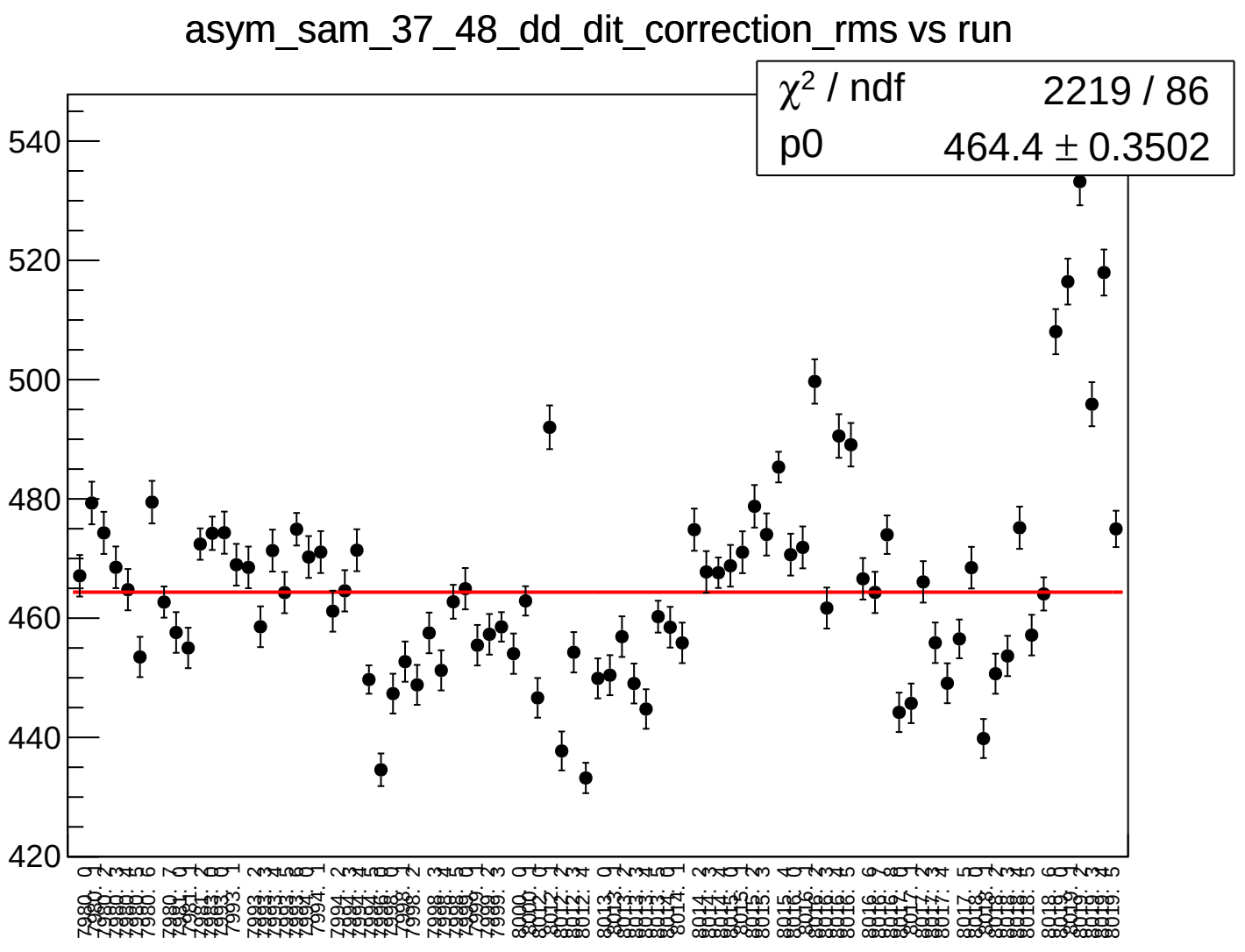

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6727 / 86
p0 440.1 ± 0.3323
520
500
480
460
440
420
400
380
360

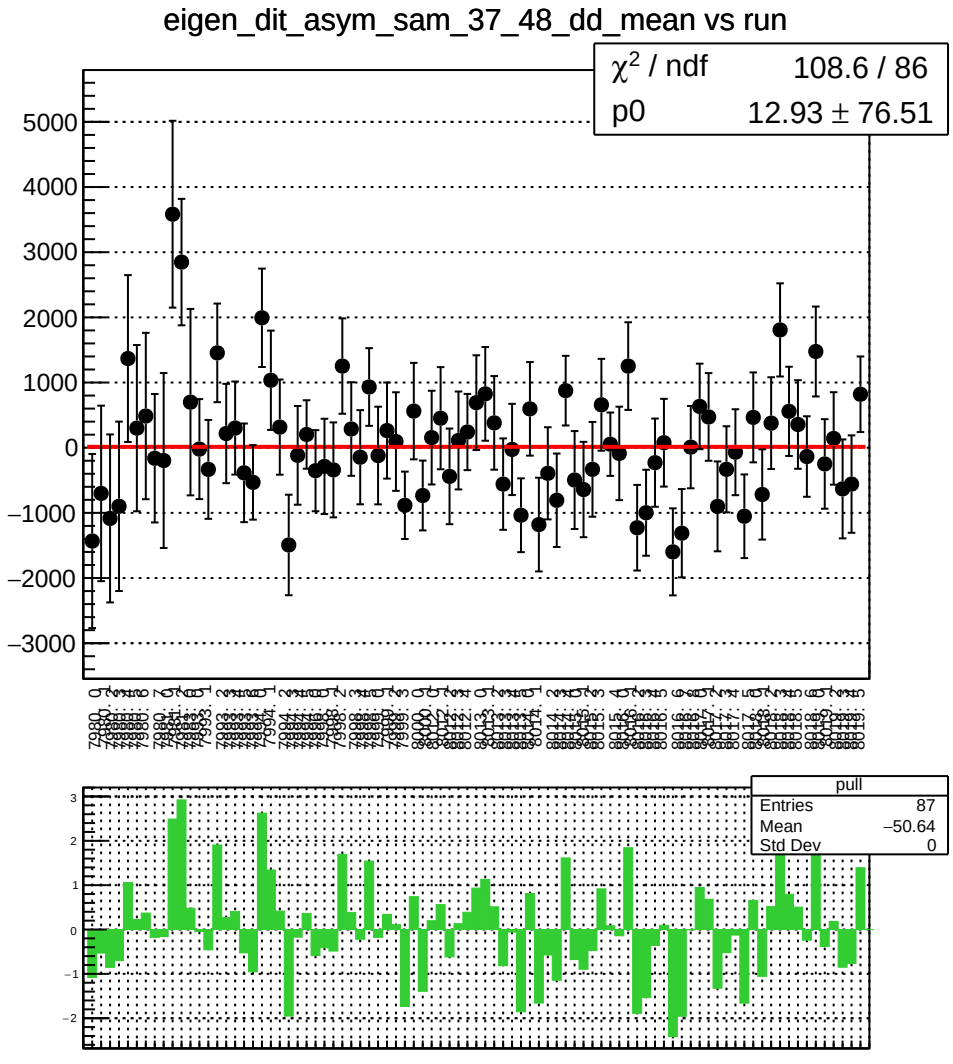

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 108.6 / 86
p0 12.93 ± 76.51
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −50.65
Std Dev 0
3
2
1
0
−1
−2

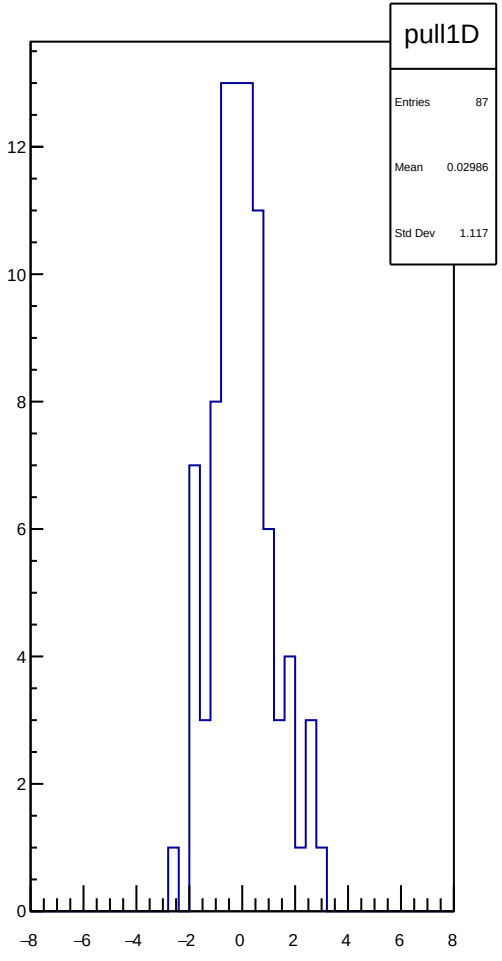

pull1D
Entries 87
Mean 0.02986
Std Dev 1.117
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

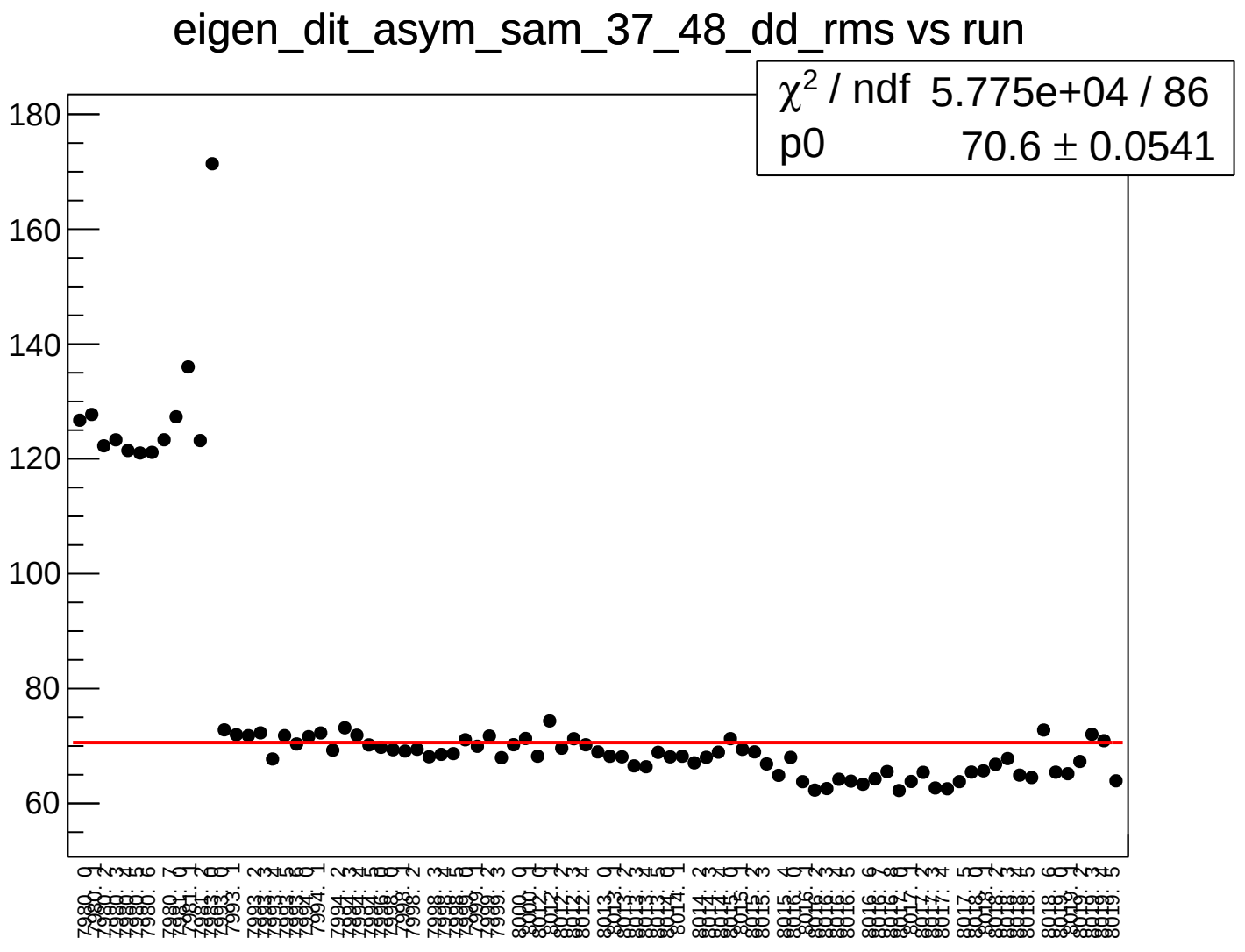

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 5.775e+04 / 86
p0 70.6 ± 0.0541
180
160
140
120
100
80
60

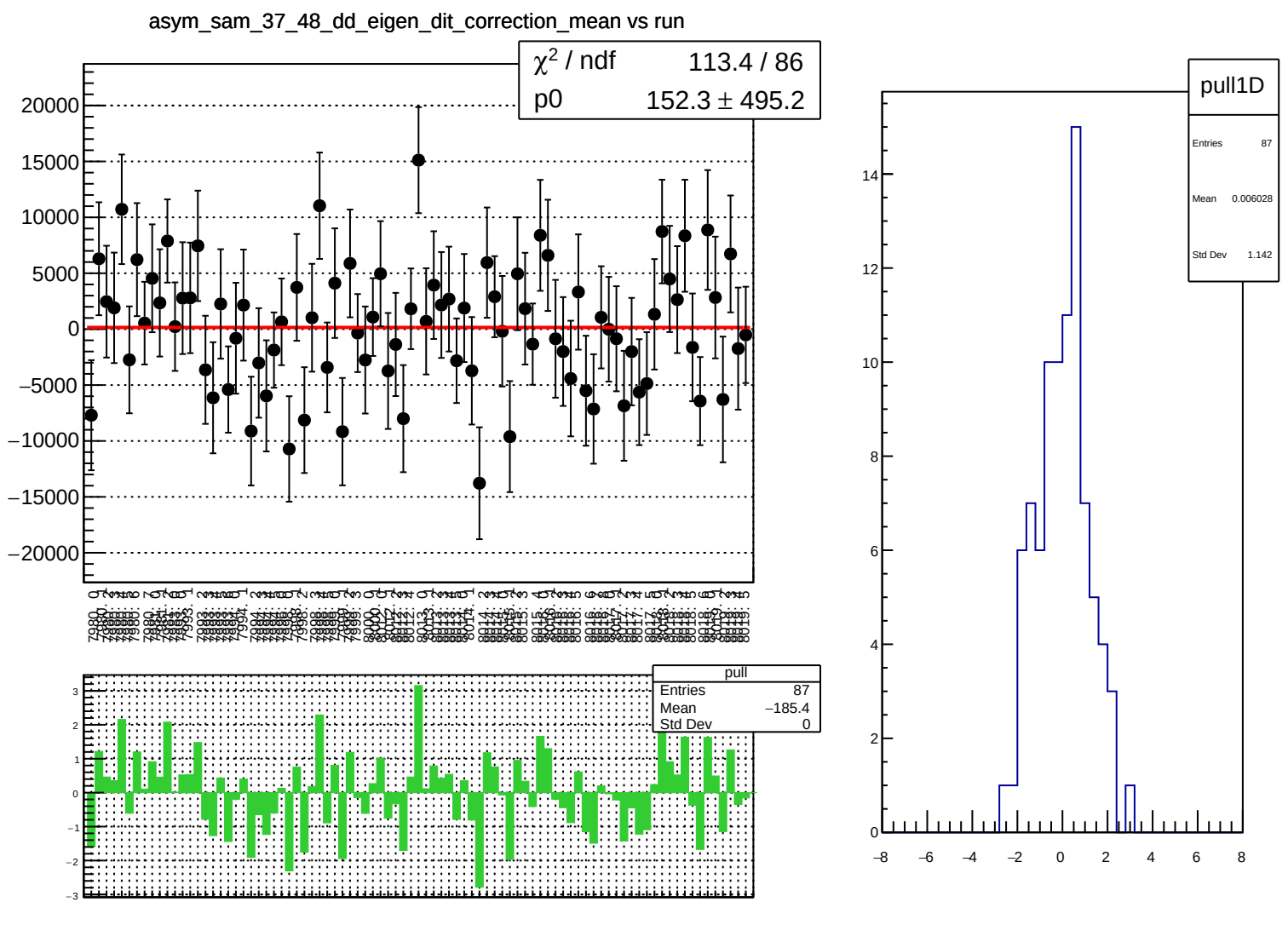

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 113.4 / 86
p0 152.3 ± 495.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 87
Mean −185.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.006028
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

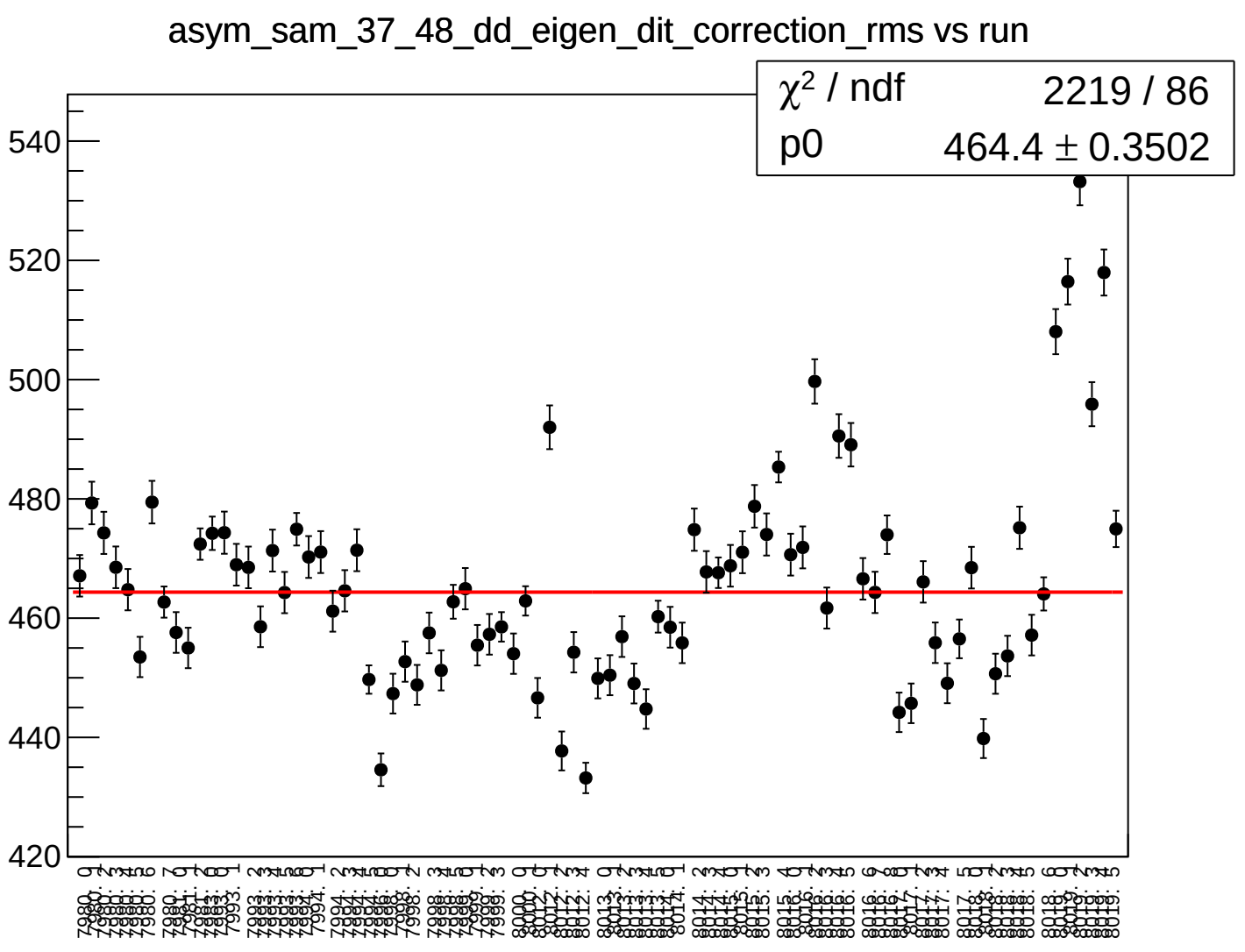

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2219 / 86
p0 464.4 ± 0.3502
540
520
500
480
460
440
420

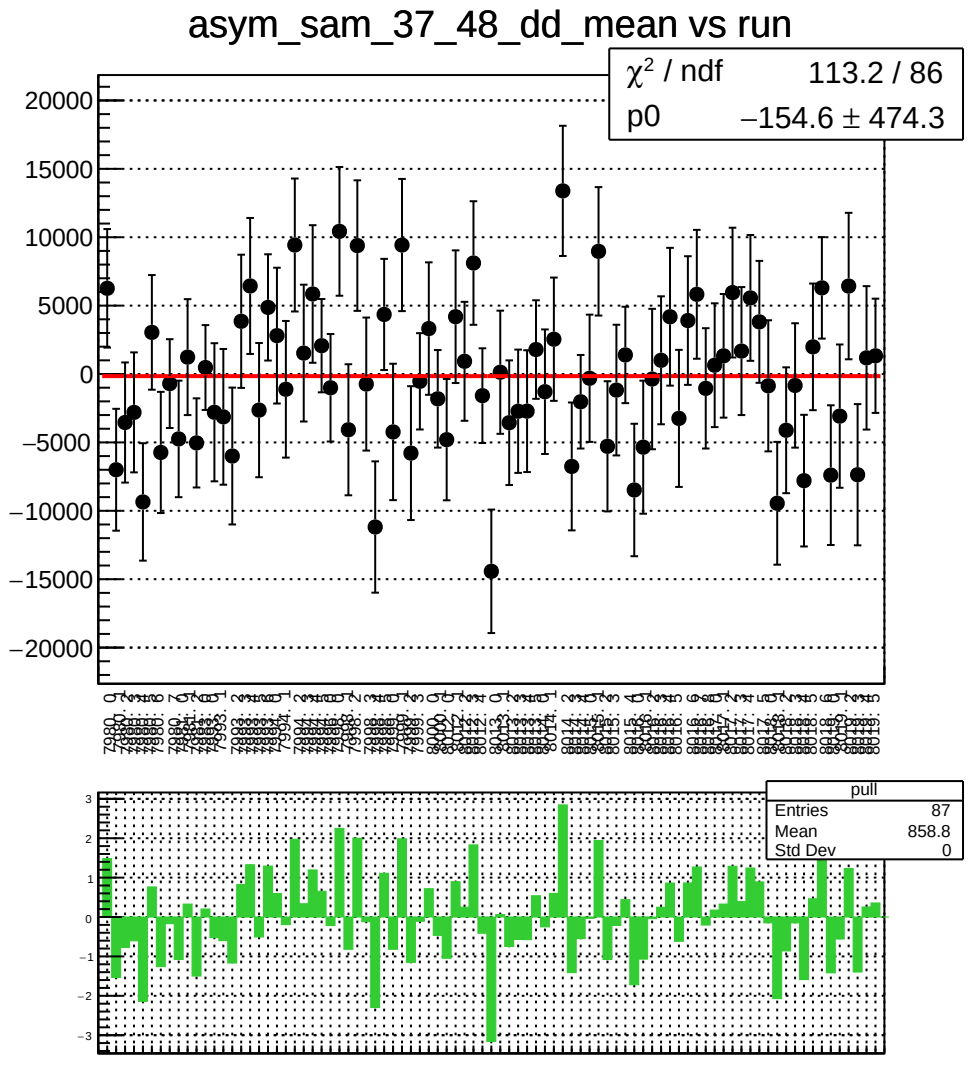

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 108.6 / 86
p0 12.93 ± 76.51
pull
Entries 87
Mean −50.64
Std Dev 0

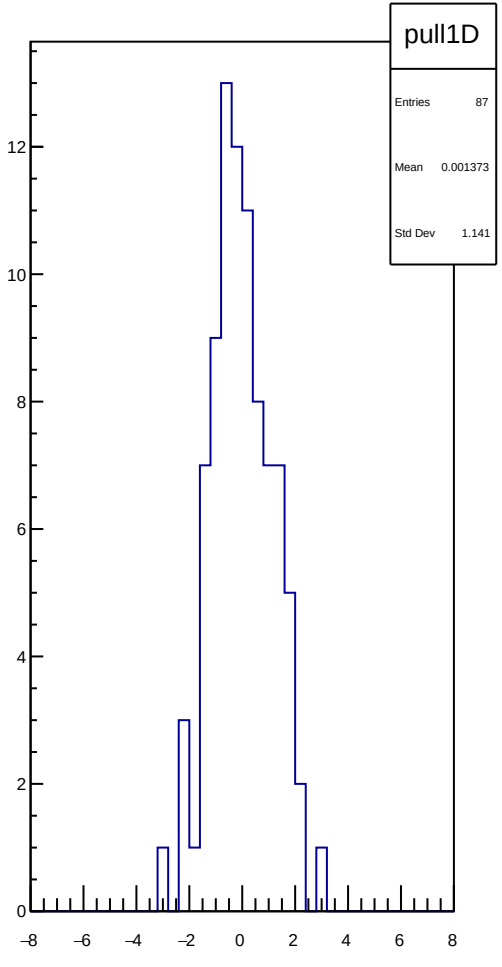

pull1D
Entries 87
Mean 0.02986
Std Dev 1.117

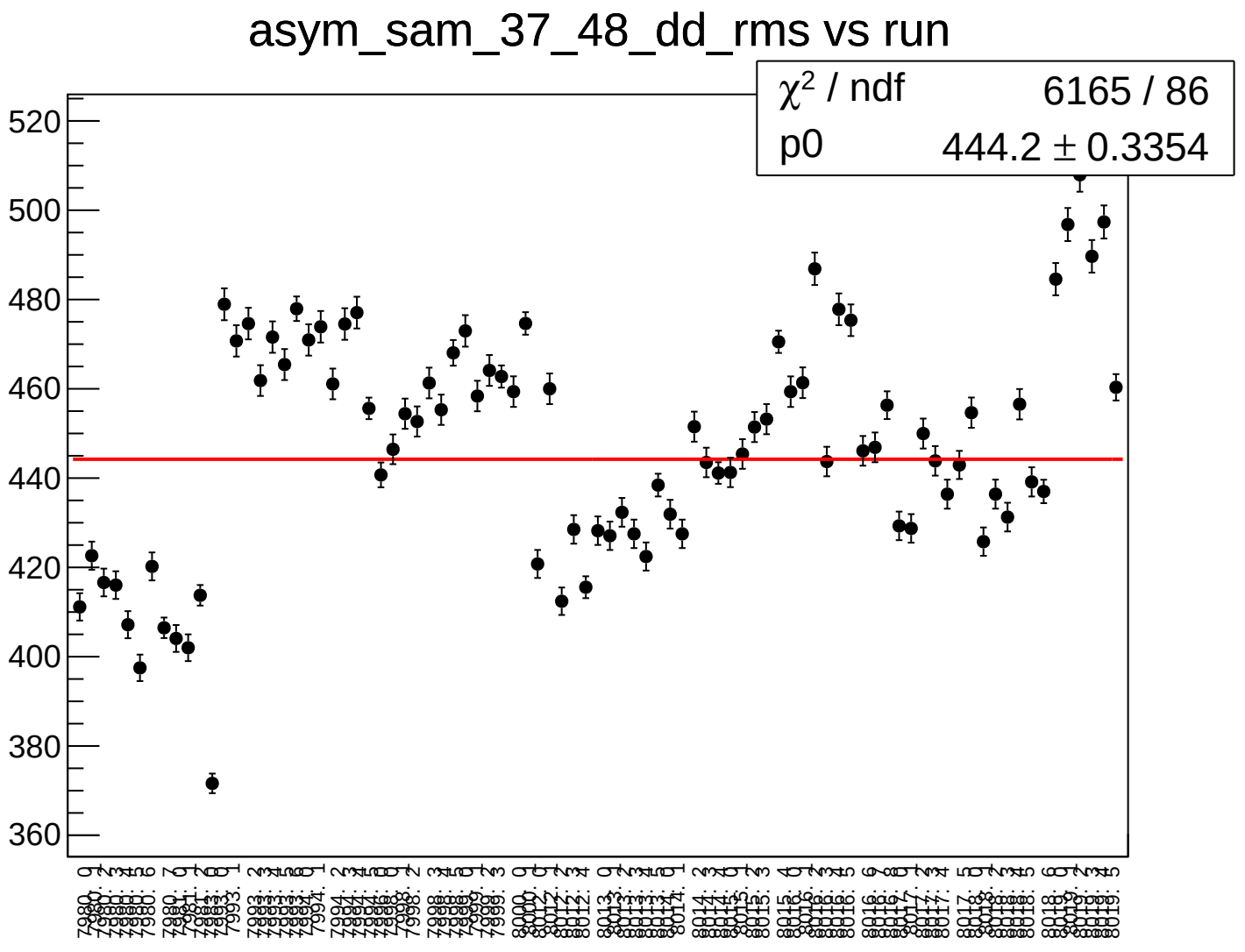

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 5.775e+04 / 86
p0 70.6 ± 0.0541
180
160
140
120
100
80
60

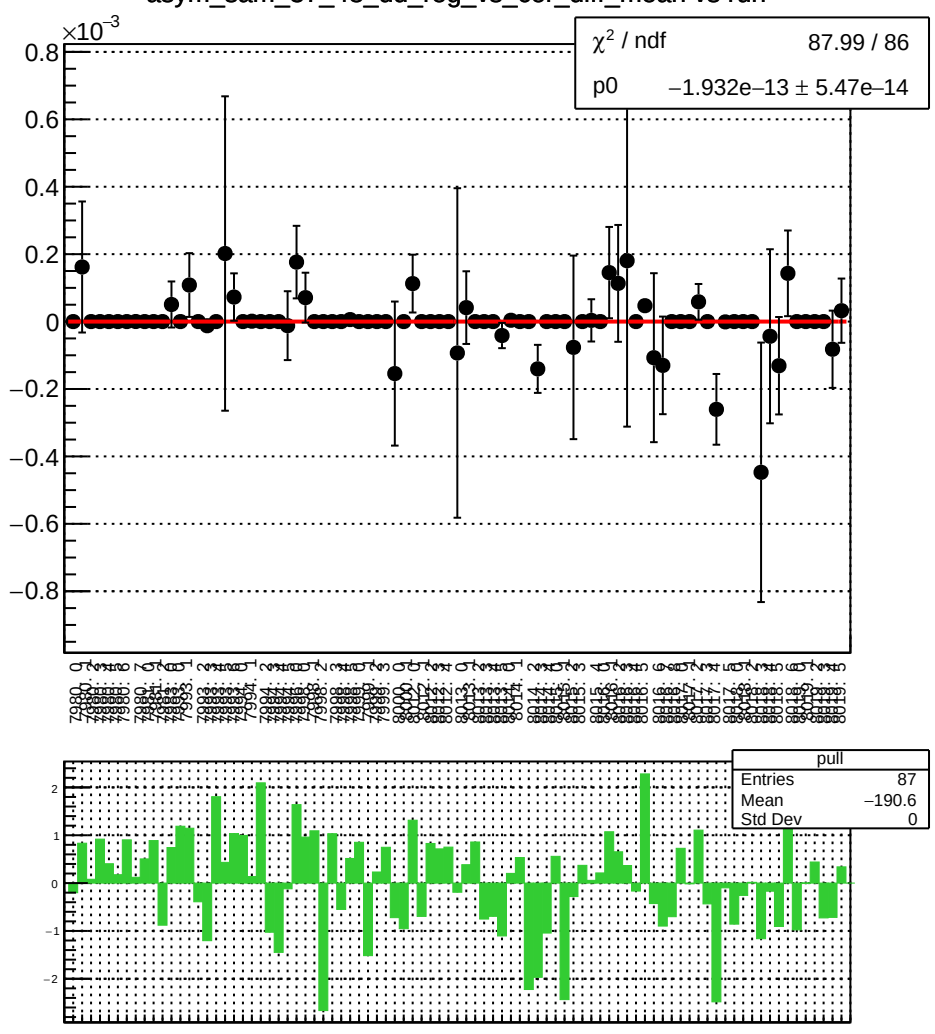

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.4 / 86
p0 152.3 ± 495.2
pull
Entries 87
Mean −185.4
Std Dev 0
pull1D
Entries 87
Mean 0.006028
Std Dev 1.142

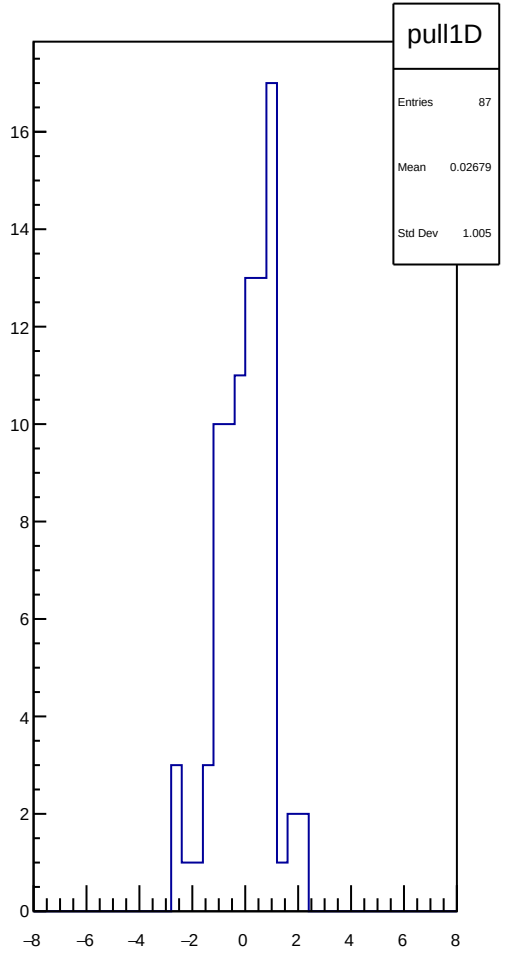

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2219 / 86
p0 464.4 ± 0.3502
540
520
500
480
460
440
420

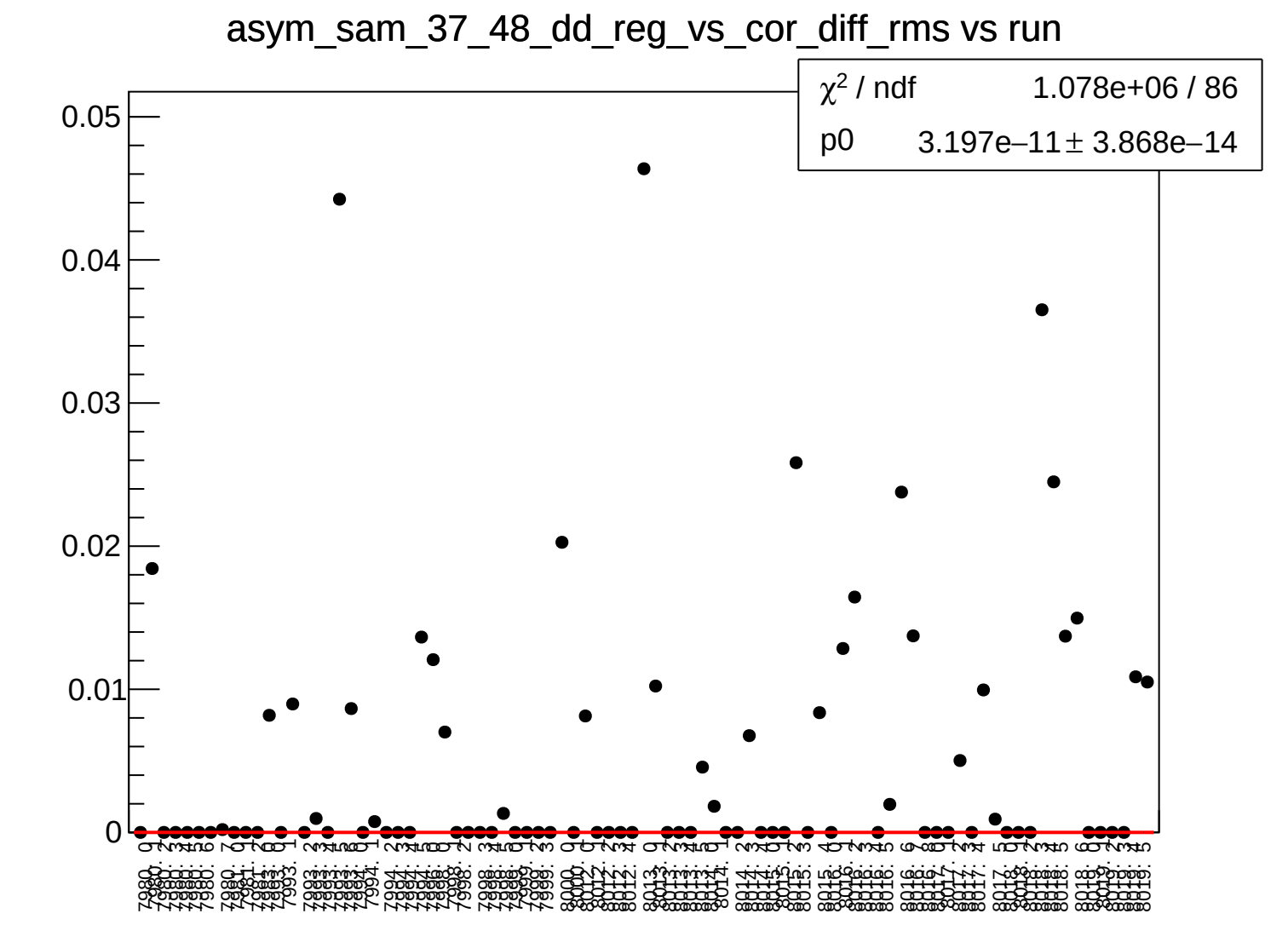

asym_sam_37_48_dd_mean vs run
χ² / ndf 113.2 / 86
p0 −154.6 ± 474.3
pull
Entries 87
Mean 858.8
Std Dev 0

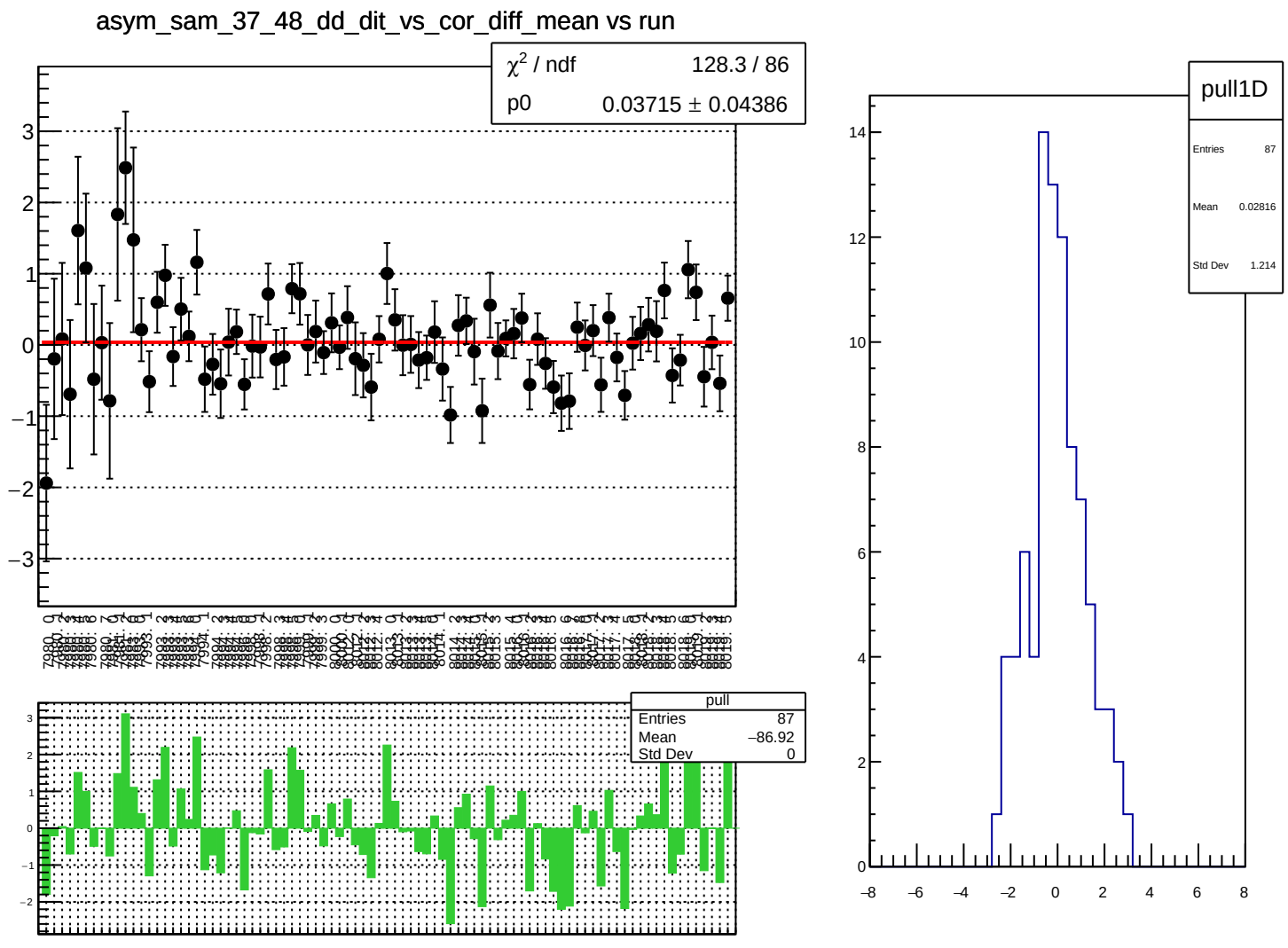

pull1D
Entries 87
Mean 0.001373
Std Dev 1.141

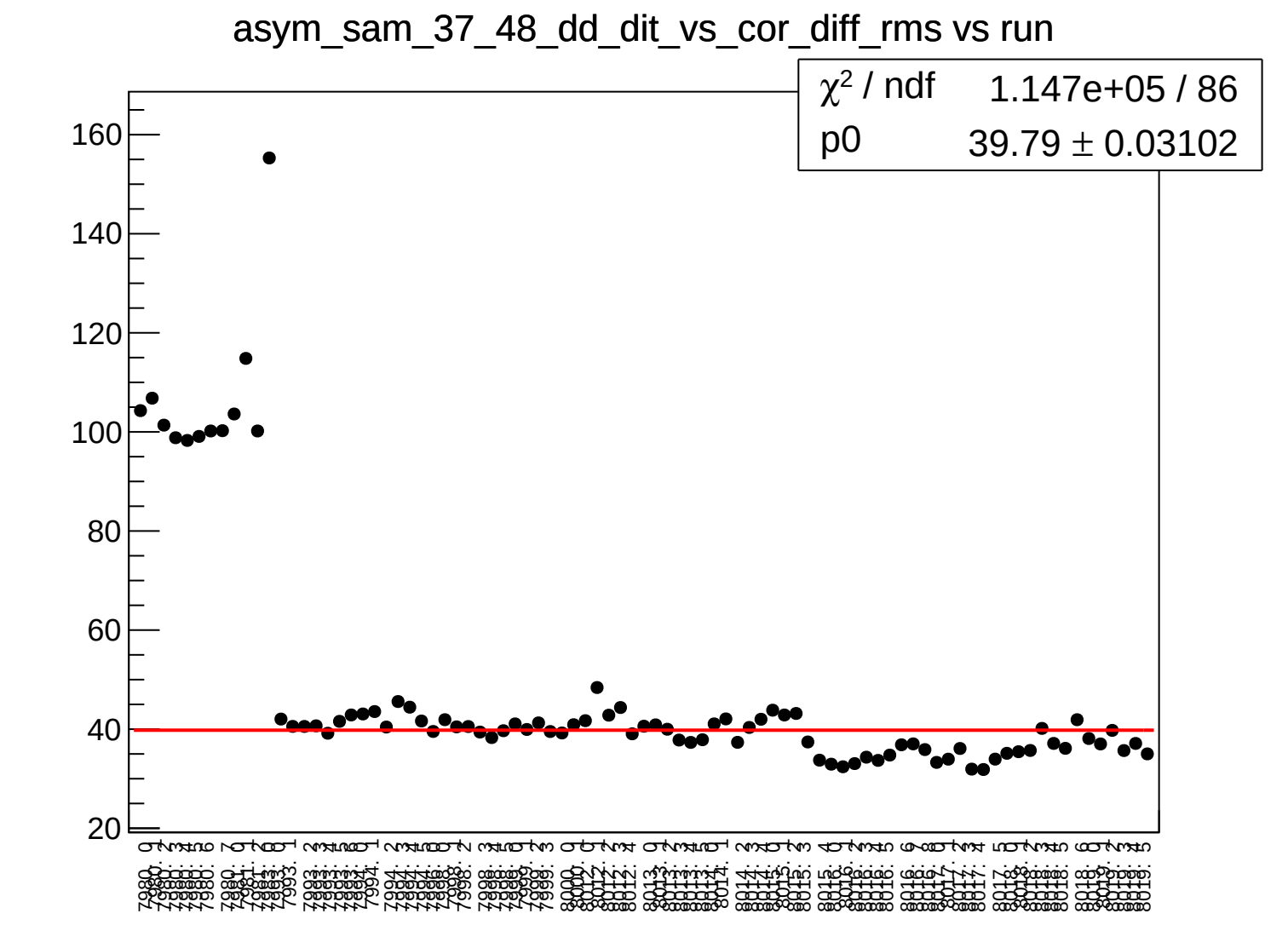

asym_sam_37_48_dd_rms vs run
χ² / ndf 6165 / 86
p0 444.2 ± 0.3354
520
500
480
460
440
420
400
380
360

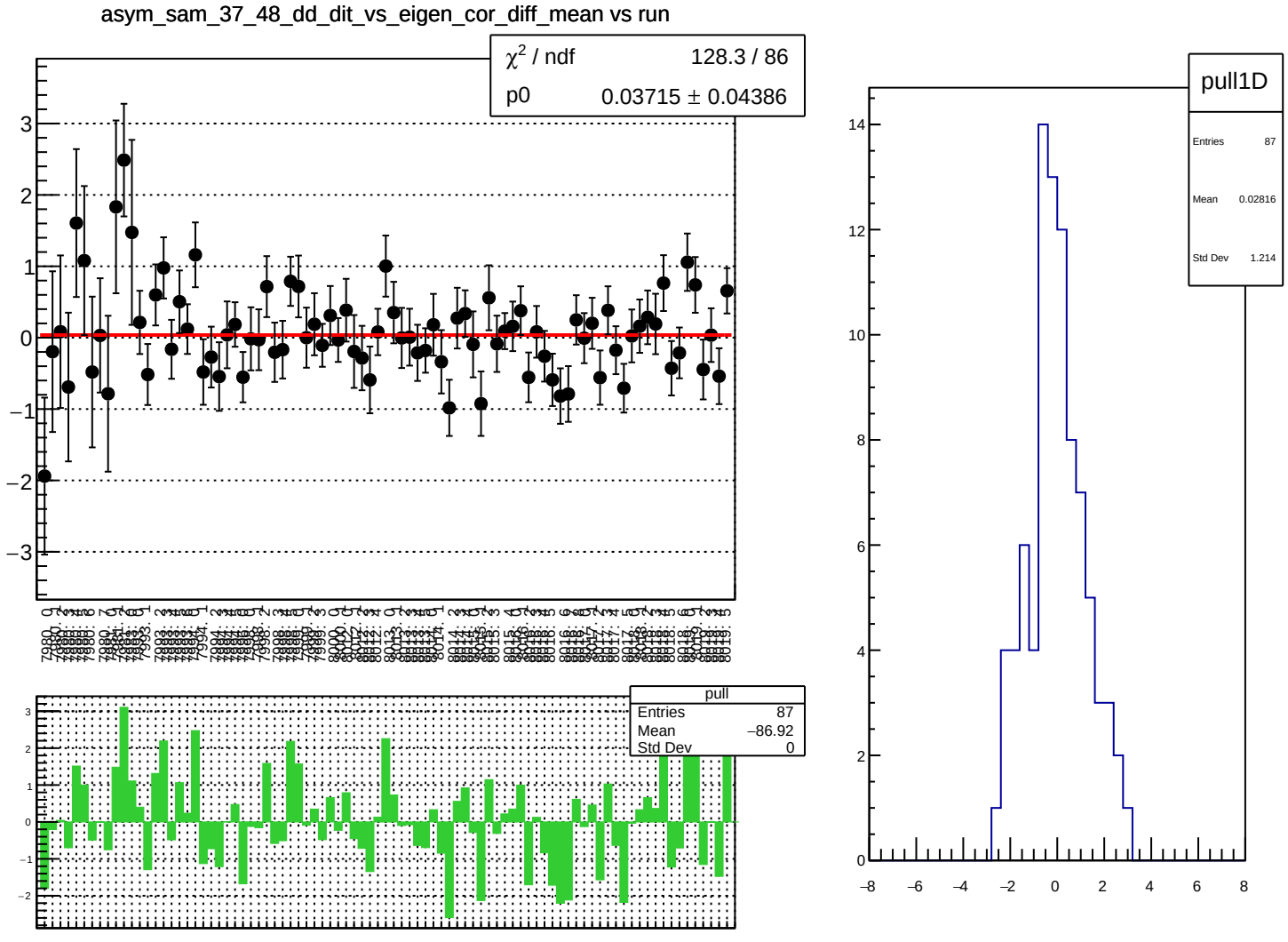

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 87.99 / 86
p0 −1.932e−13 ± 5.47e−14
pull
Entries 87
Mean −190.6
Std Dev 0

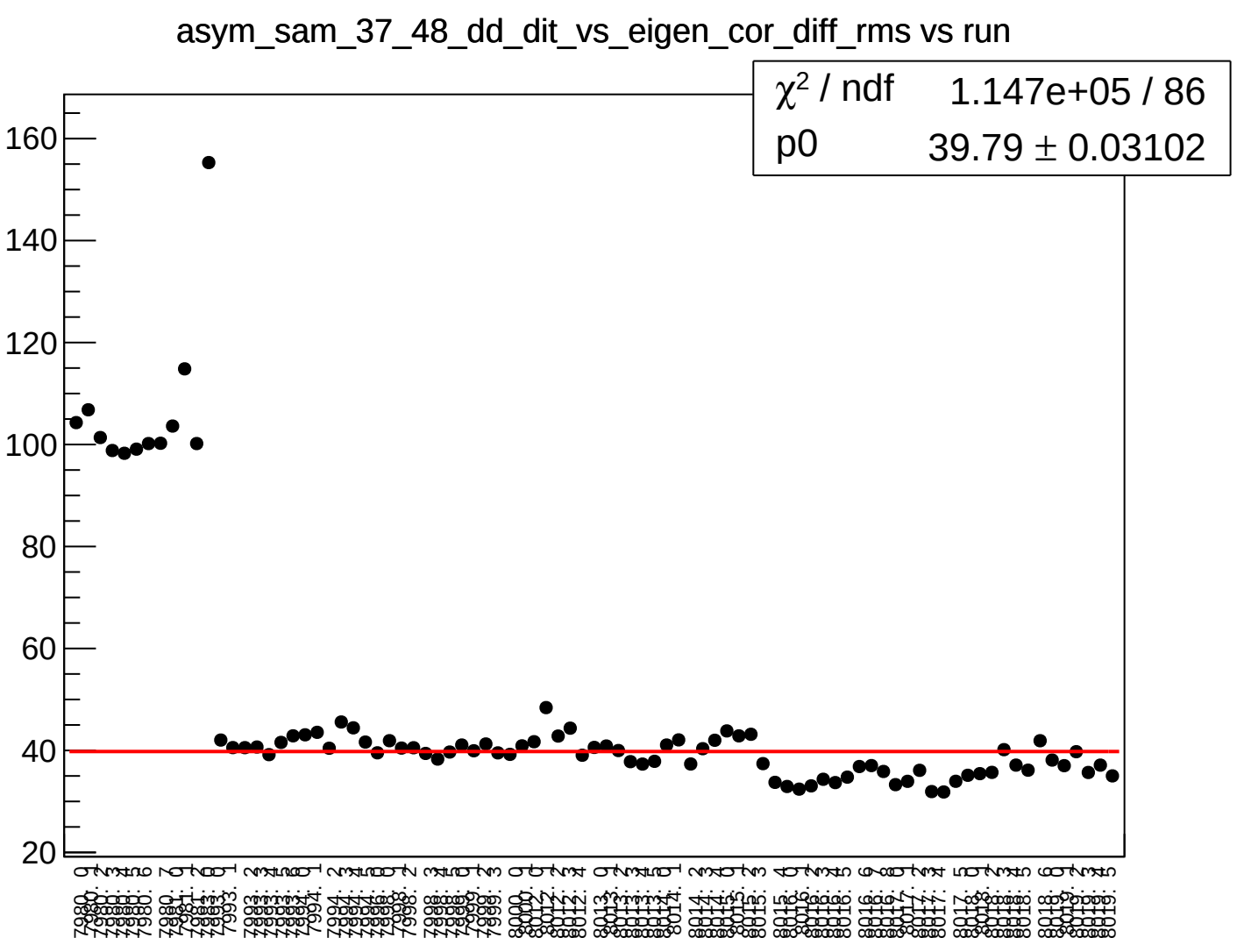

pull1D
Entries 87
Mean 0.02679
Std Dev 1.005

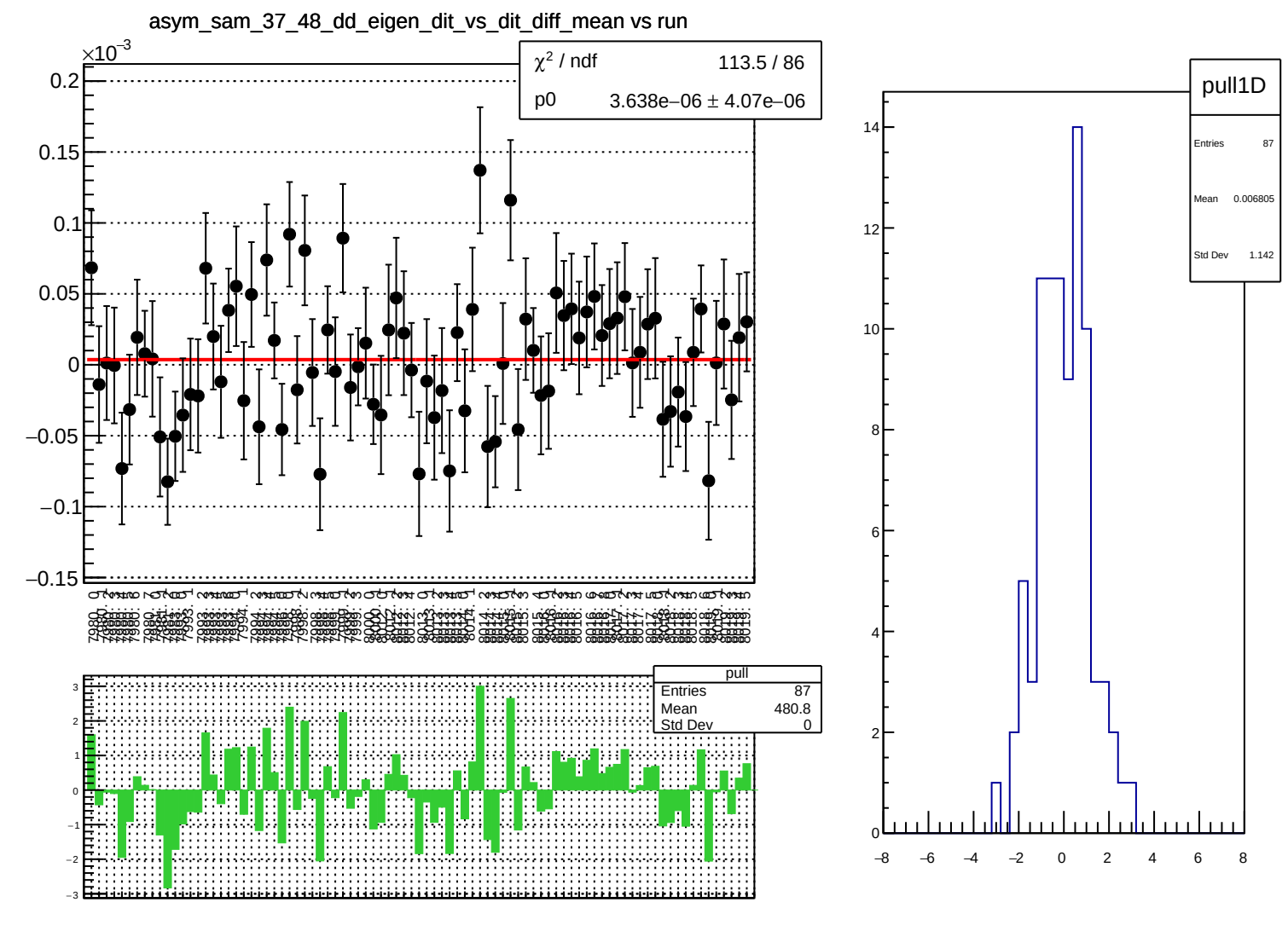

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.078e+06 / 86
p0 3.197e−11 ± 3.868e−14
0.05
0.04
0.03
0.02
0.01
0

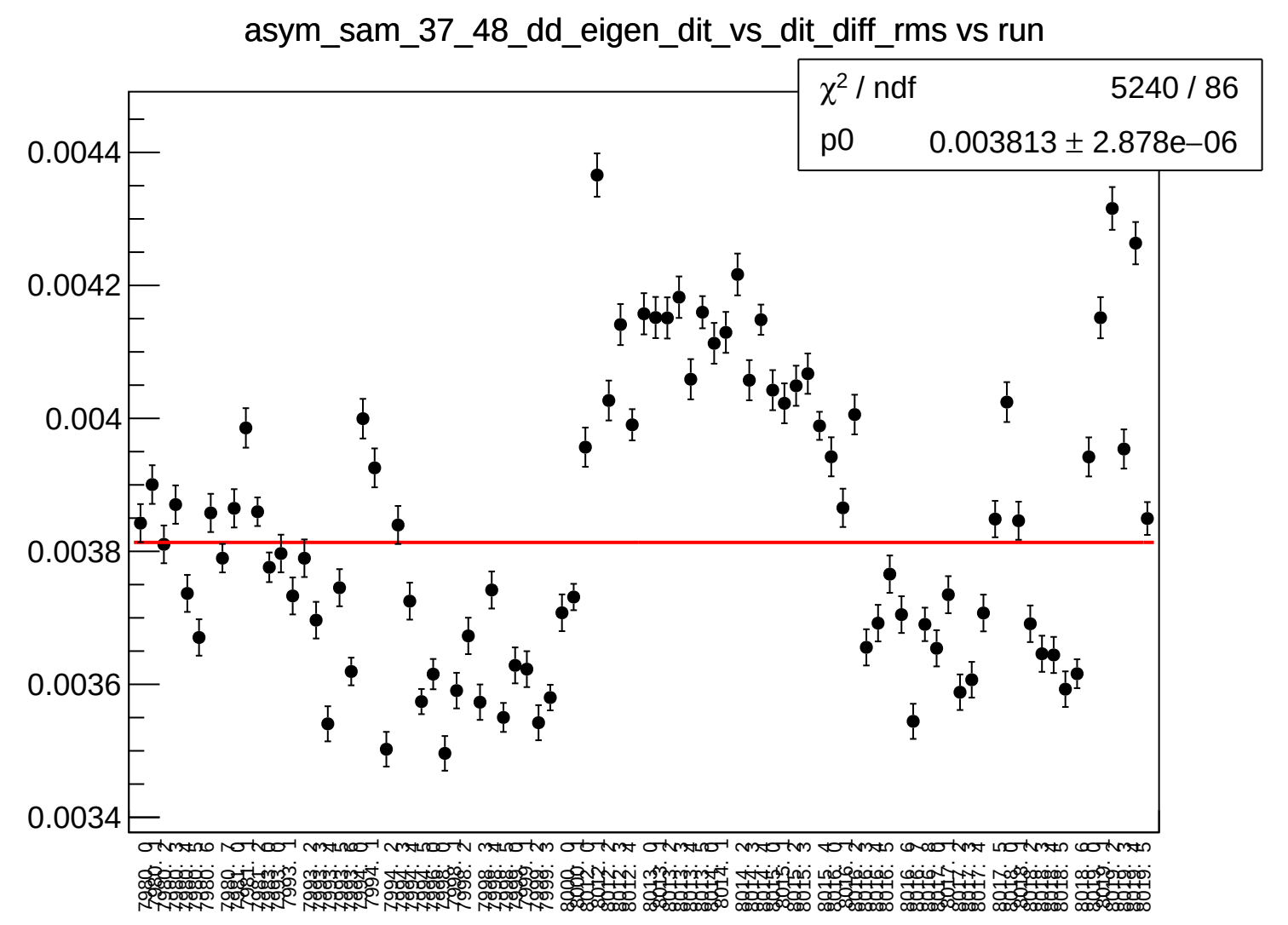

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 128.3 / 86
p0 0.03715 ± 0.04386
pull
Entries 87
Mean −86.92
Std Dev 0
pull1D
Entries 87
Mean 0.02816
Std Dev 1.214

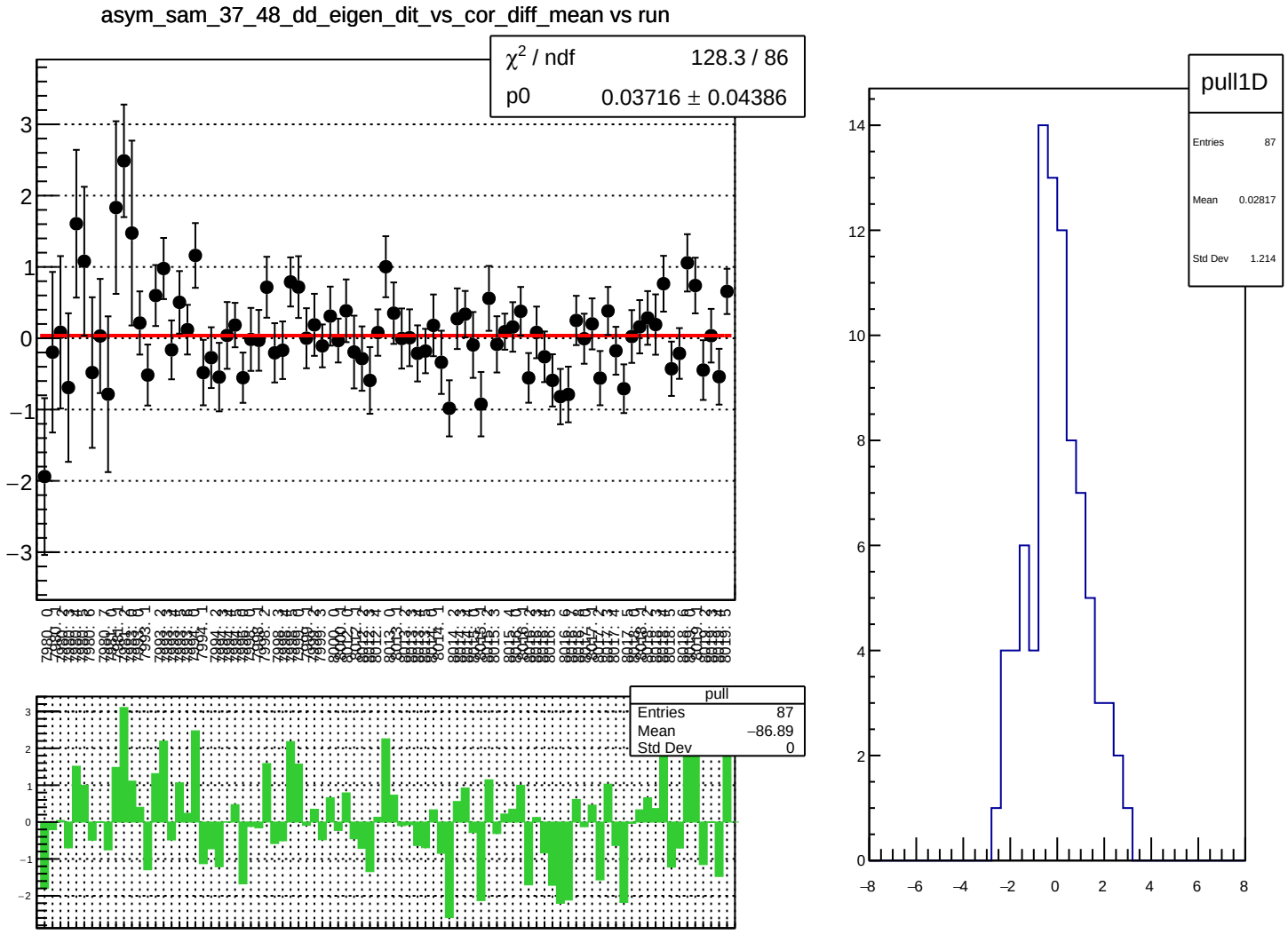

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.147e+05 / 86
p0 39.79 ± 0.03102
160
140
120
100
80
60
40
20

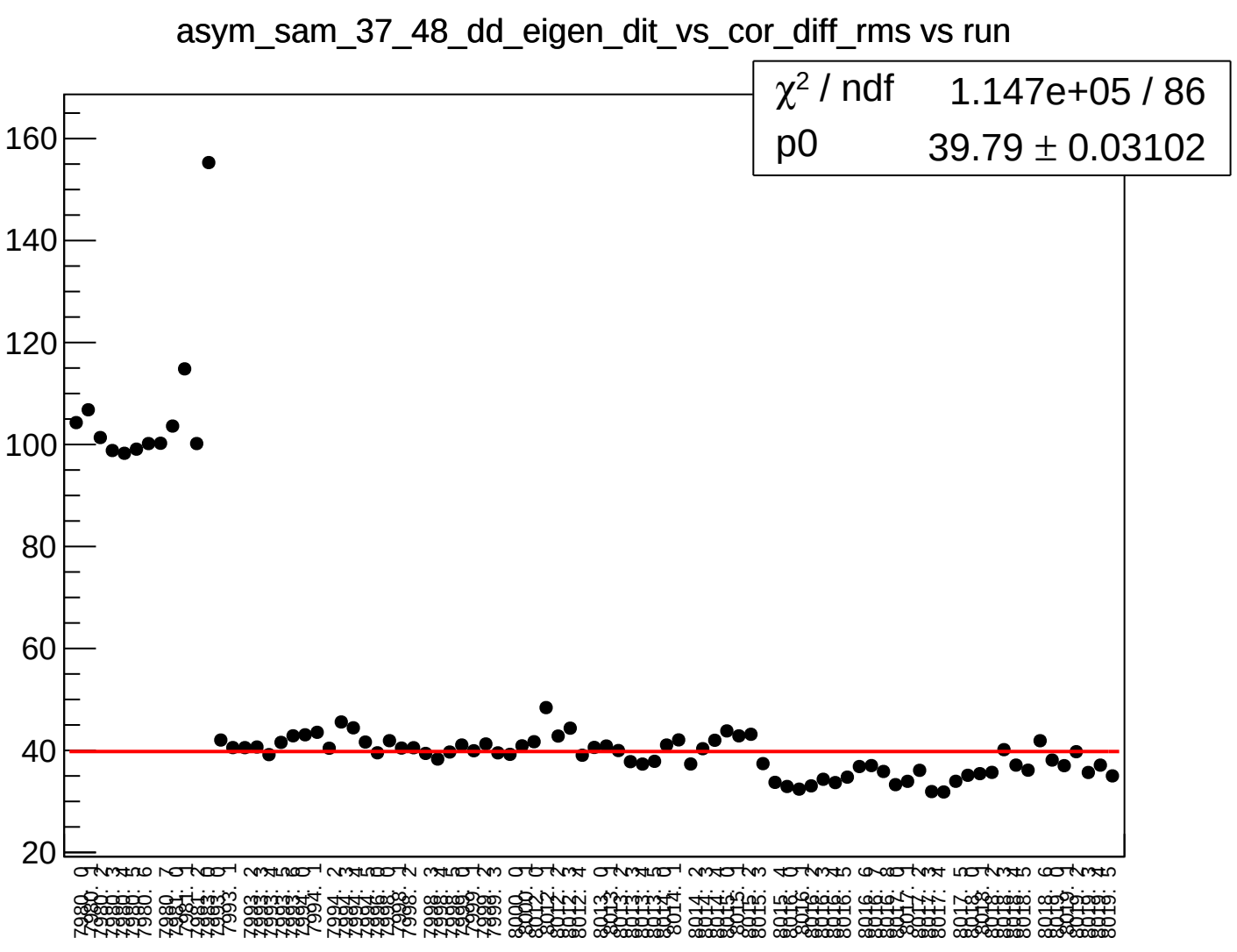

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 128.3 / 86
p0 0.03715 ± 0.04386
pull
Entries 87
Mean −86.92
Std Dev 0
pull1D
Entries 87
Mean 0.02816
Std Dev 1.214

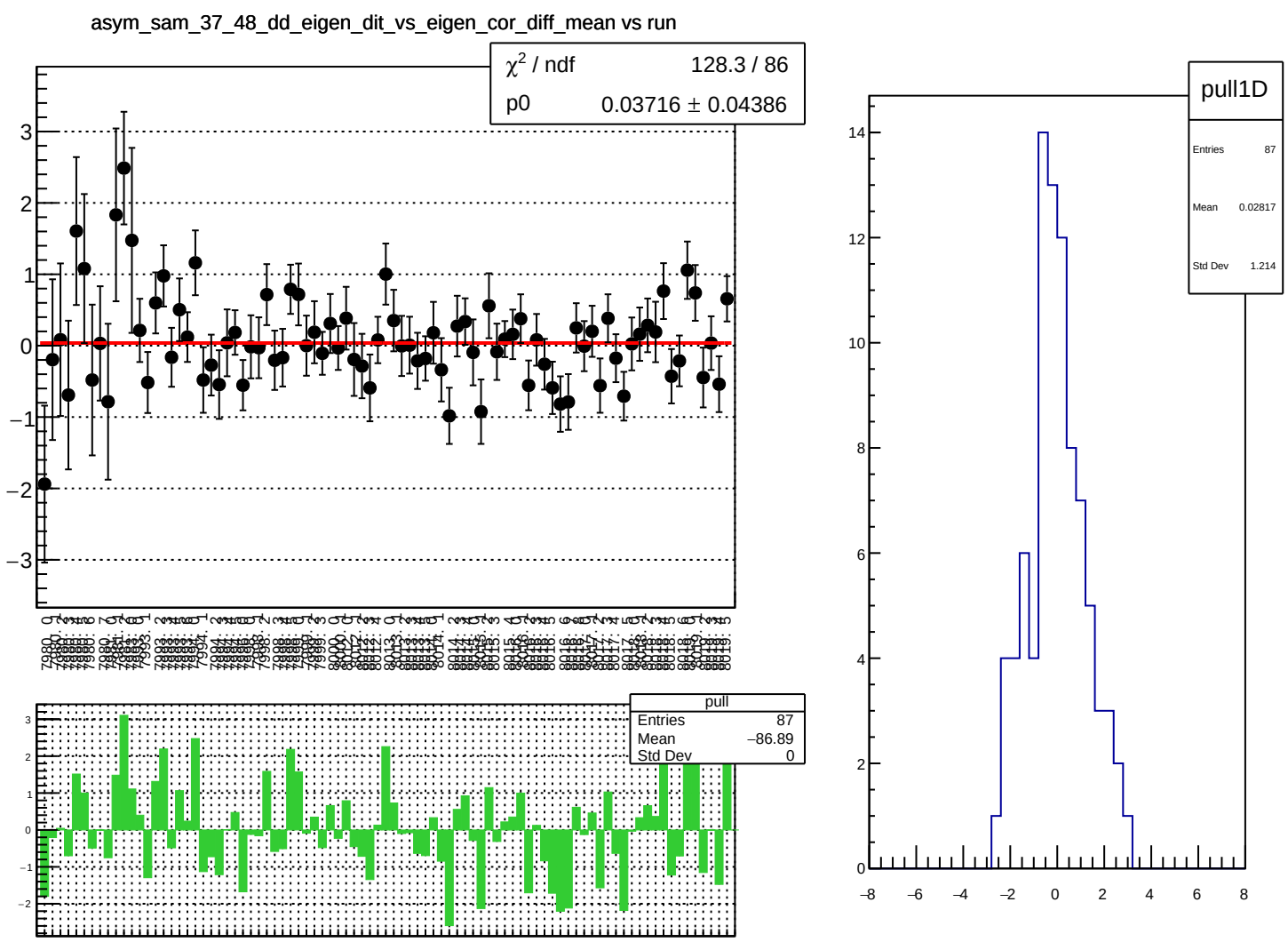

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.147e+05 / 86
p0 39.79 ± 0.03102
160
140
120
100
80
60
40
20

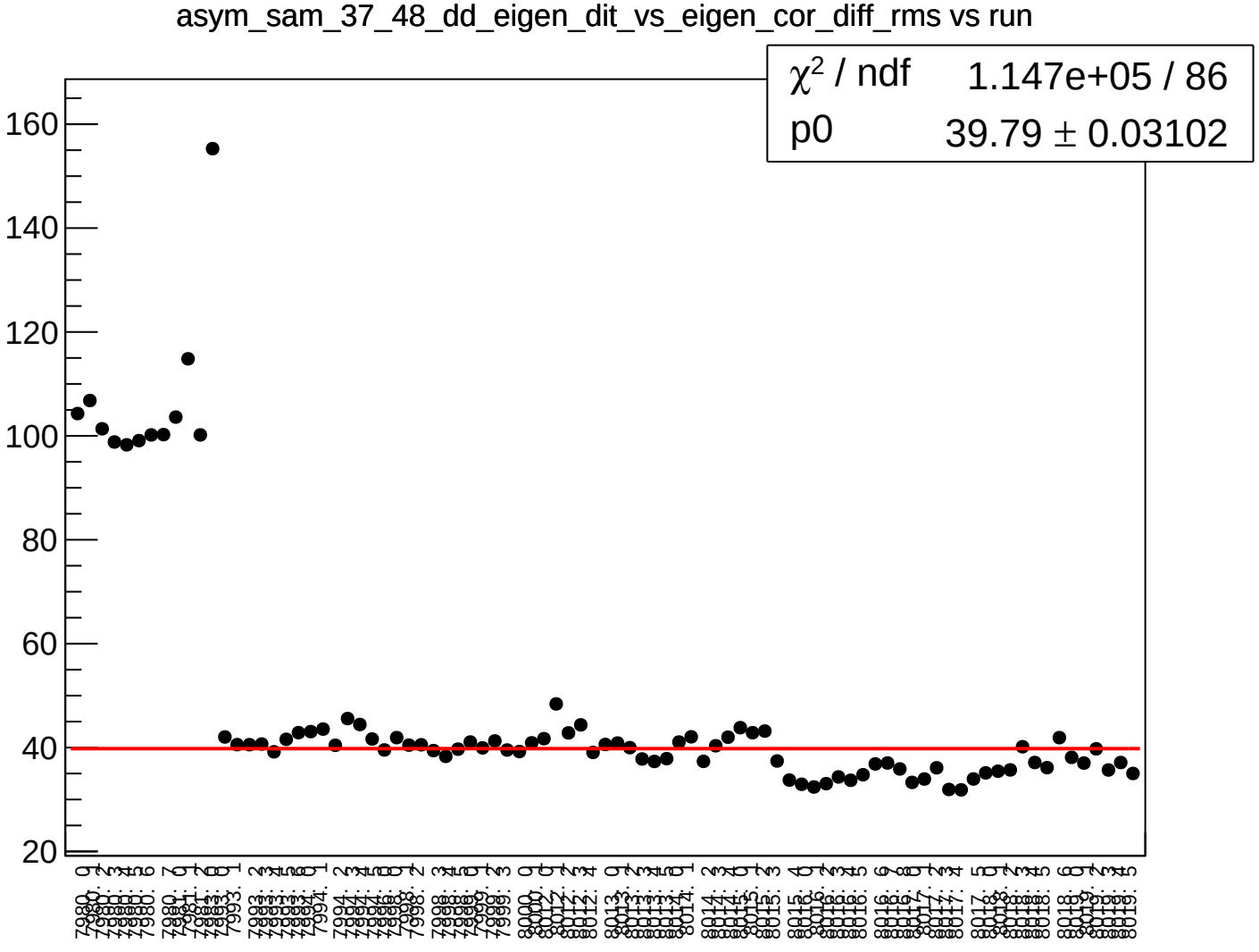

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.5 / 86
p0 3.638e−06 ± 4.07e−06
pull
Entries 87
Mean 480.8
Std Dev 0
pull1D
Entries 87
Mean 0.006805
Std Dev 1.142

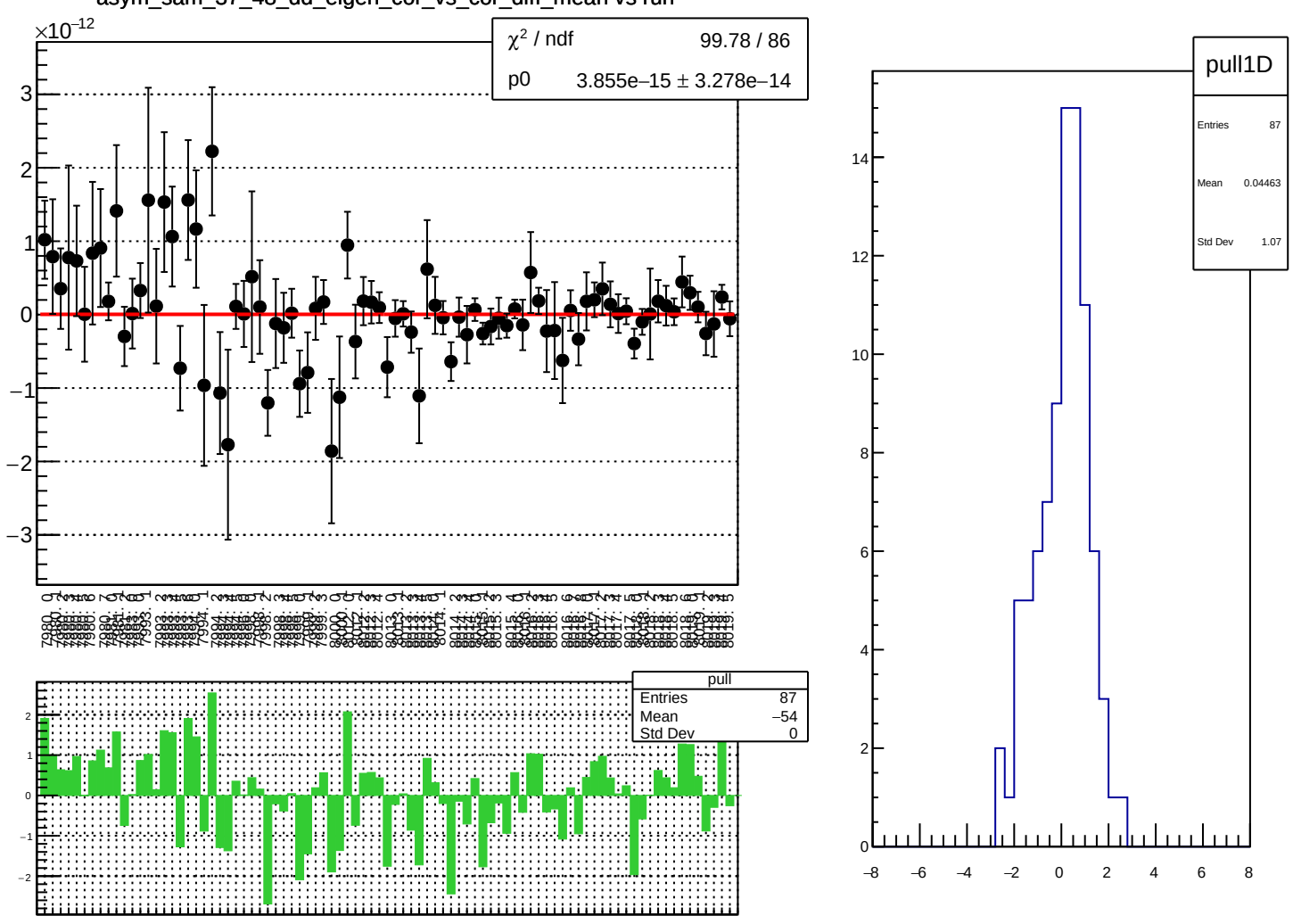

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5240 / 86
p0 0.003813 ± 2.878e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

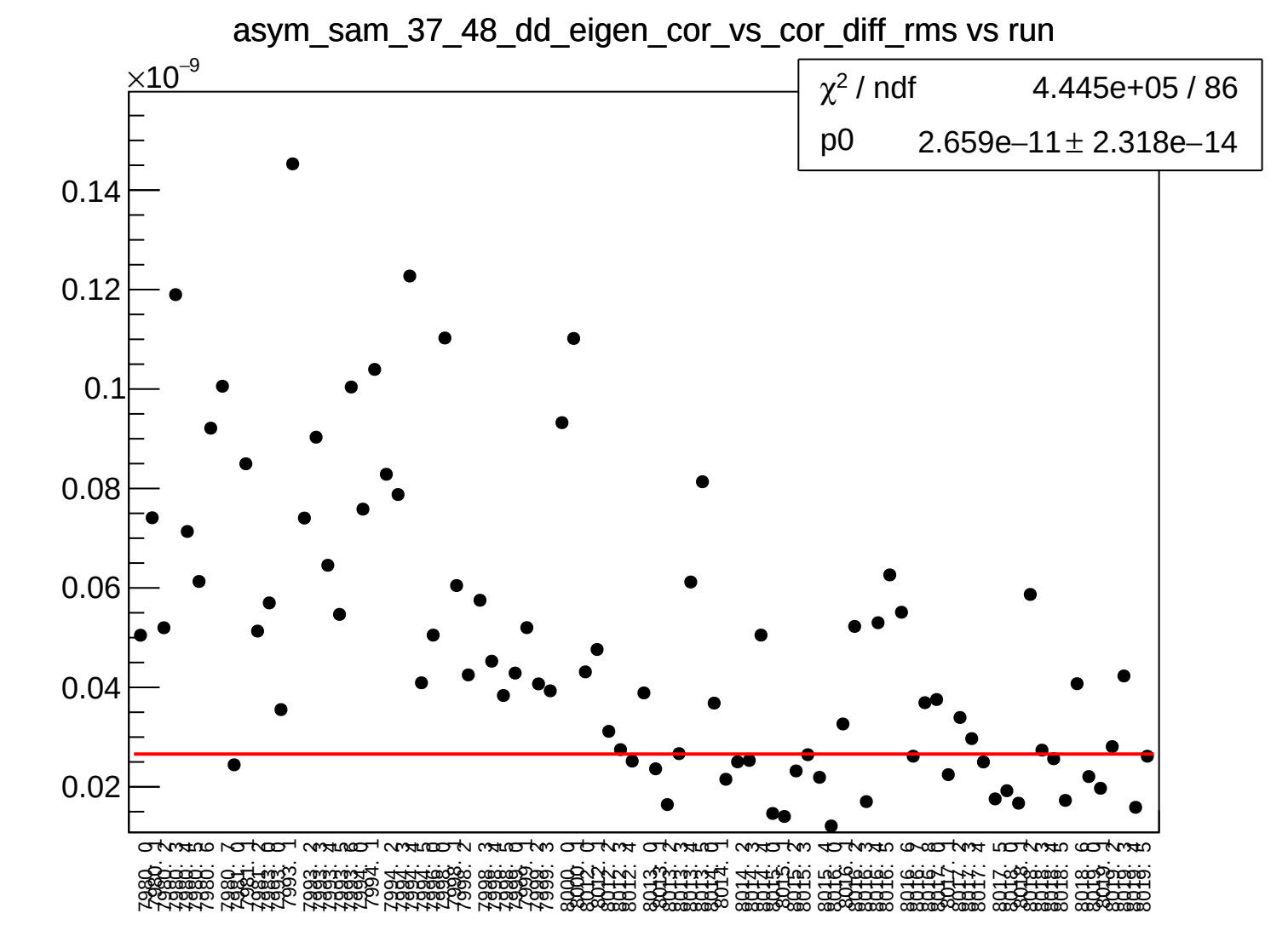

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 128.3 / 86
p0 0.03716 ± 0.04386
pull
Entries 87
Mean −86.89
Std Dev 0
pull1D
Entries 87
Mean 0.02817
Std Dev 1.214

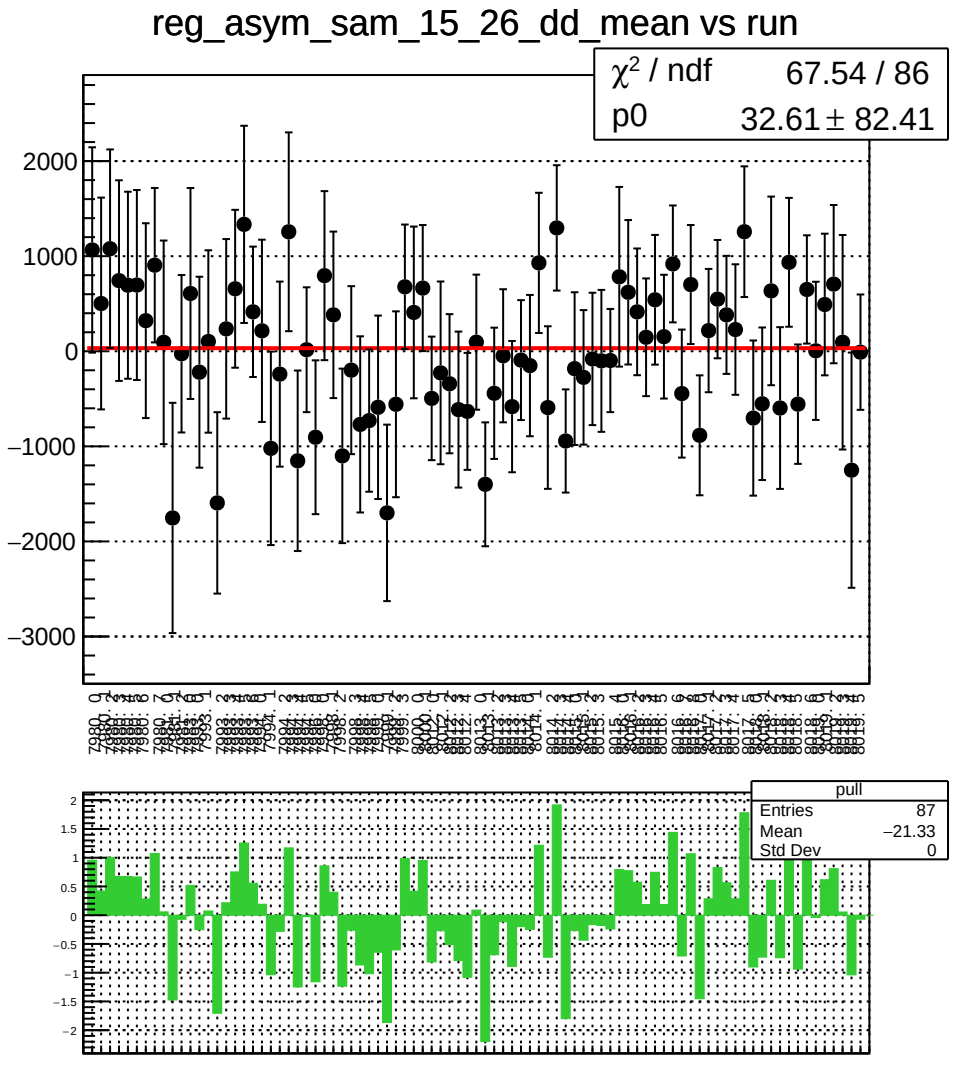

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.147e+05 / 86
p0 39.79 ± 0.03102
160
140
120
100
80
60
40
20

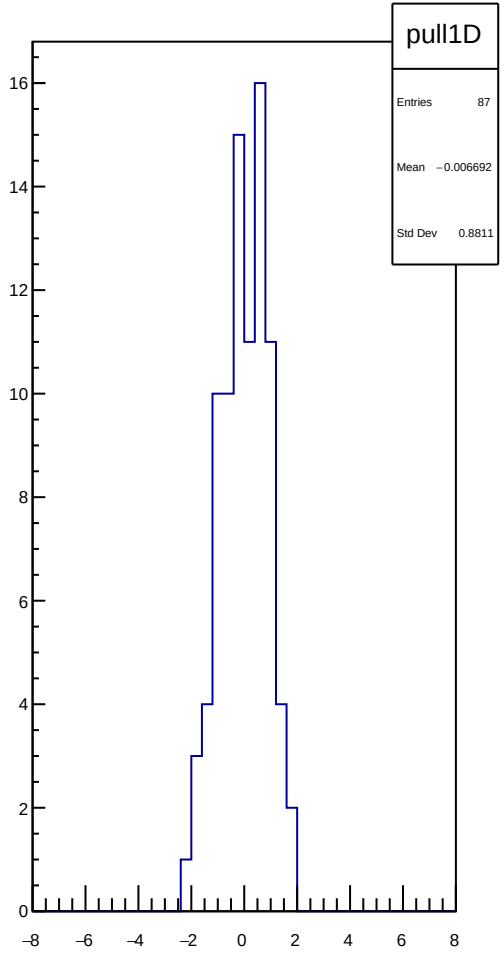

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 128.3 / 86
p0 0.03716 ± 0.04386
pull
Entries 87
Mean −86.89
Std Dev 0
pull1D
Entries 87
Mean 0.02817
Std Dev 1.214

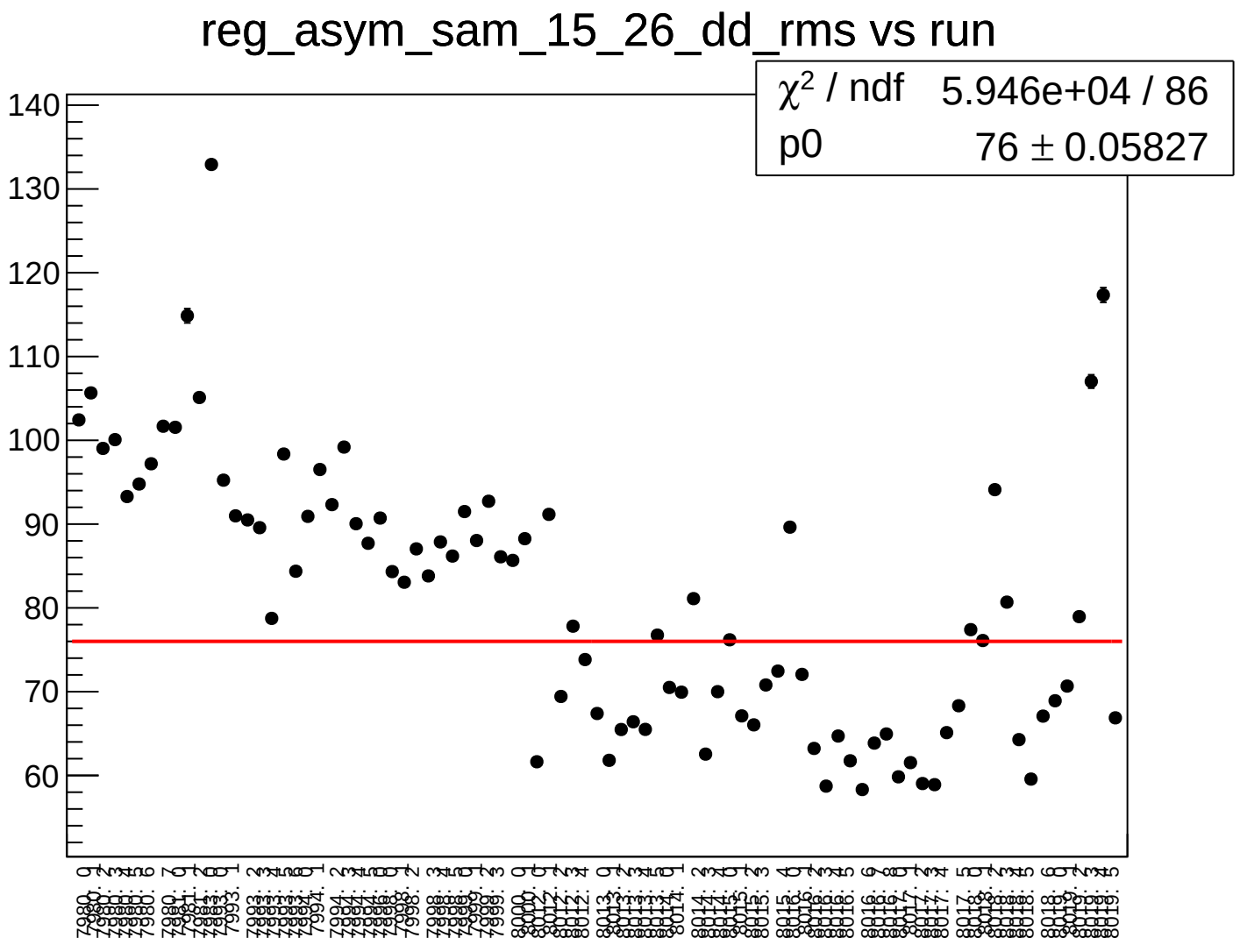

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.147e+05 / 86
p0 39.79 ± 0.03102
160
140
120
100
80
60
40
20

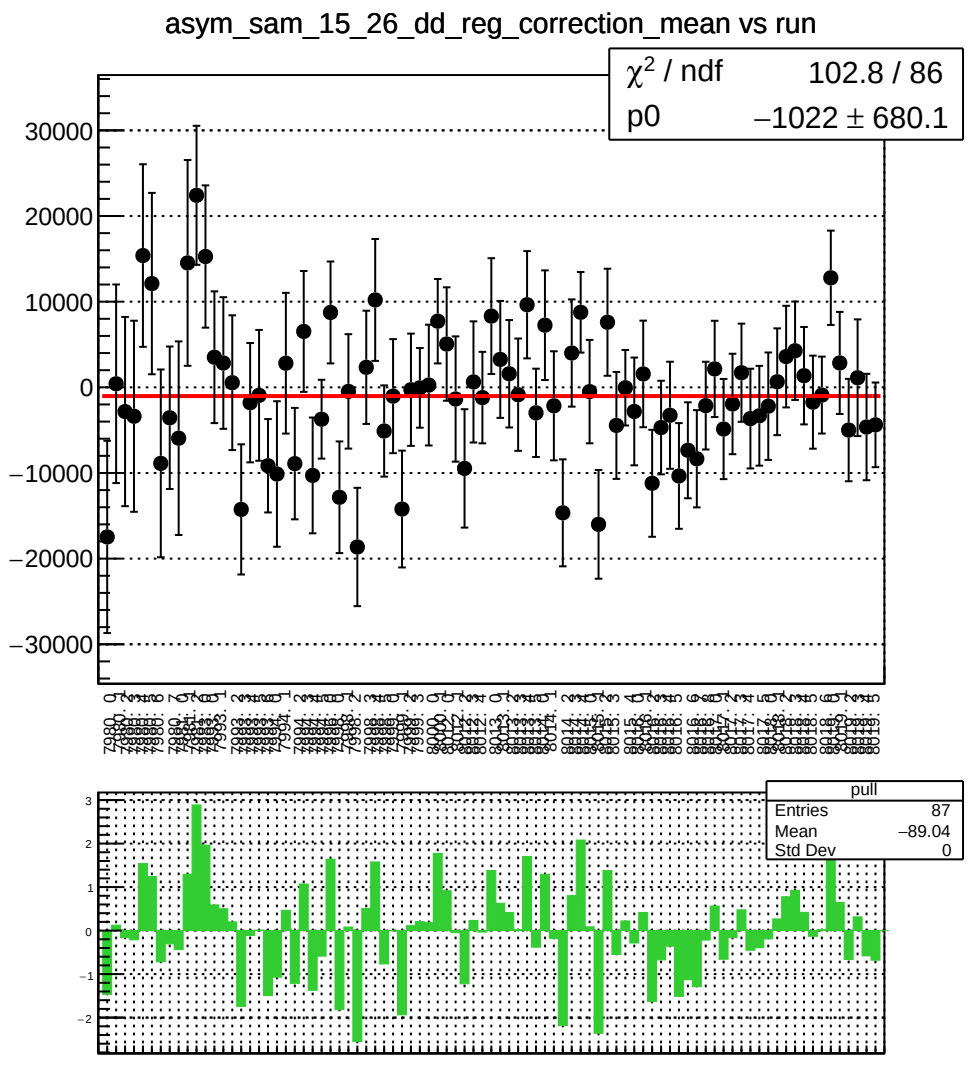

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.78 / 86
p0 3.855e−15 ± 3.278e−14
pull
Entries 87
Mean −54
Std Dev 0
pull1D
Entries 87
Mean 0.04463
Std Dev 1.07

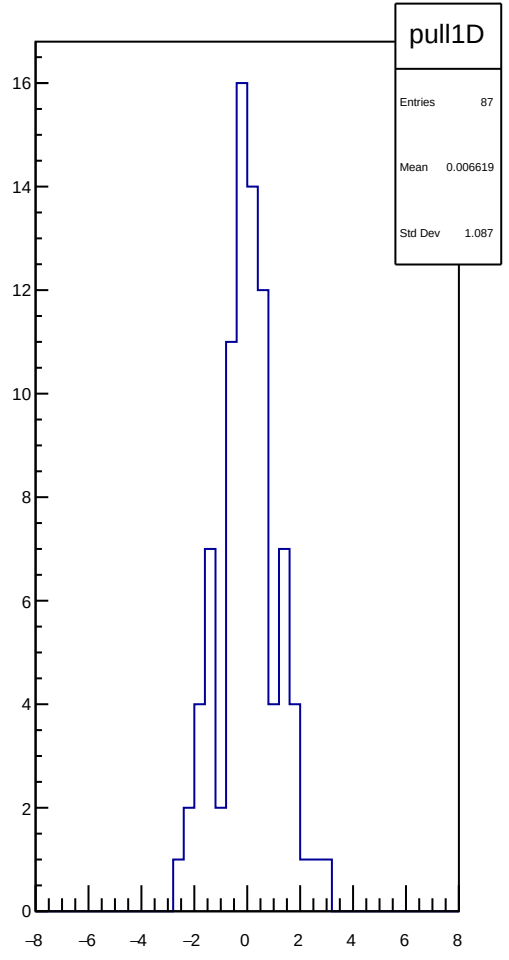

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.445e+05 / 86
p0 2.659e−11 ± 2.318e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

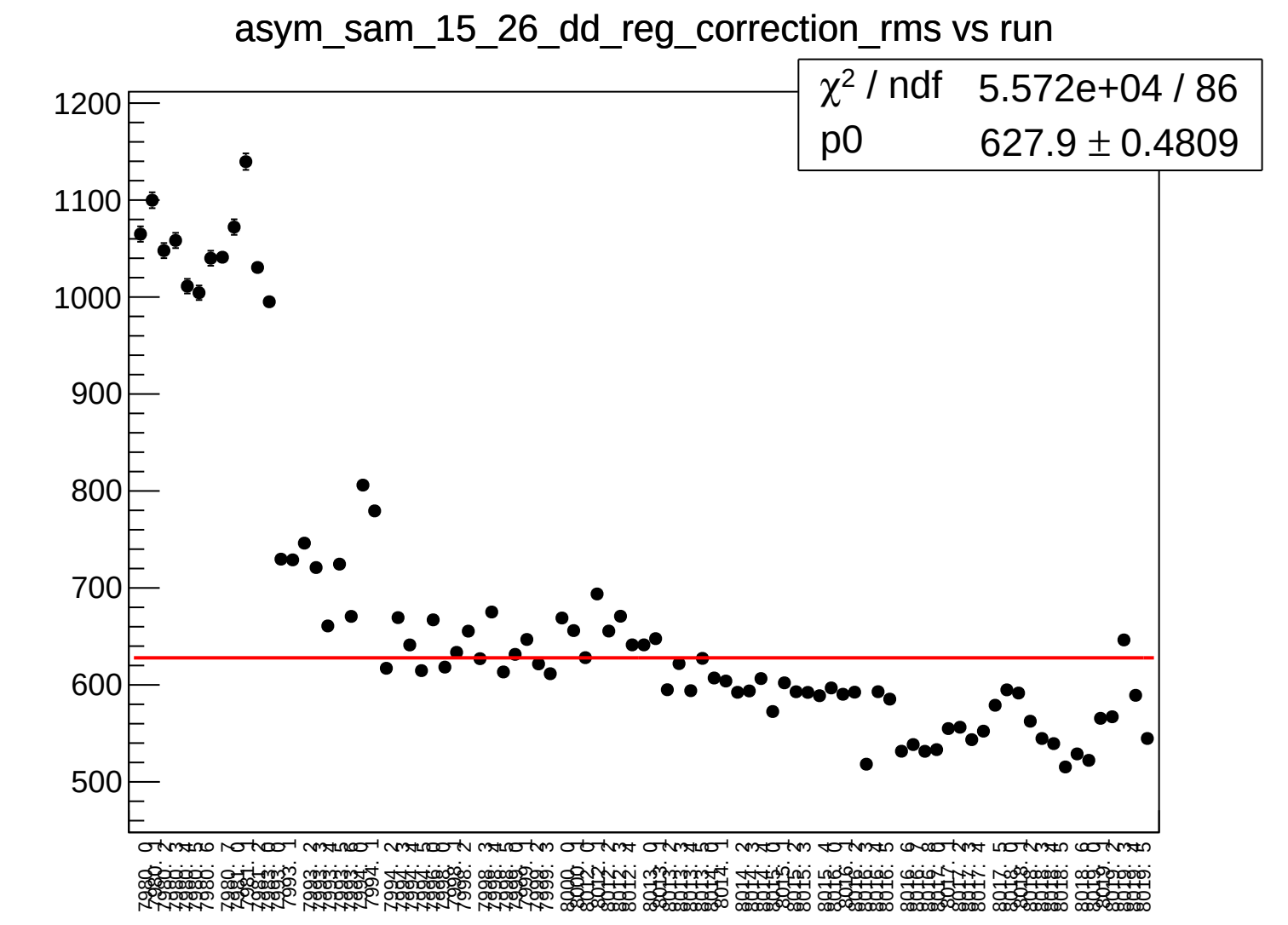

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 67.54 / 86
p0 32.61 ± 82.41
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −21.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

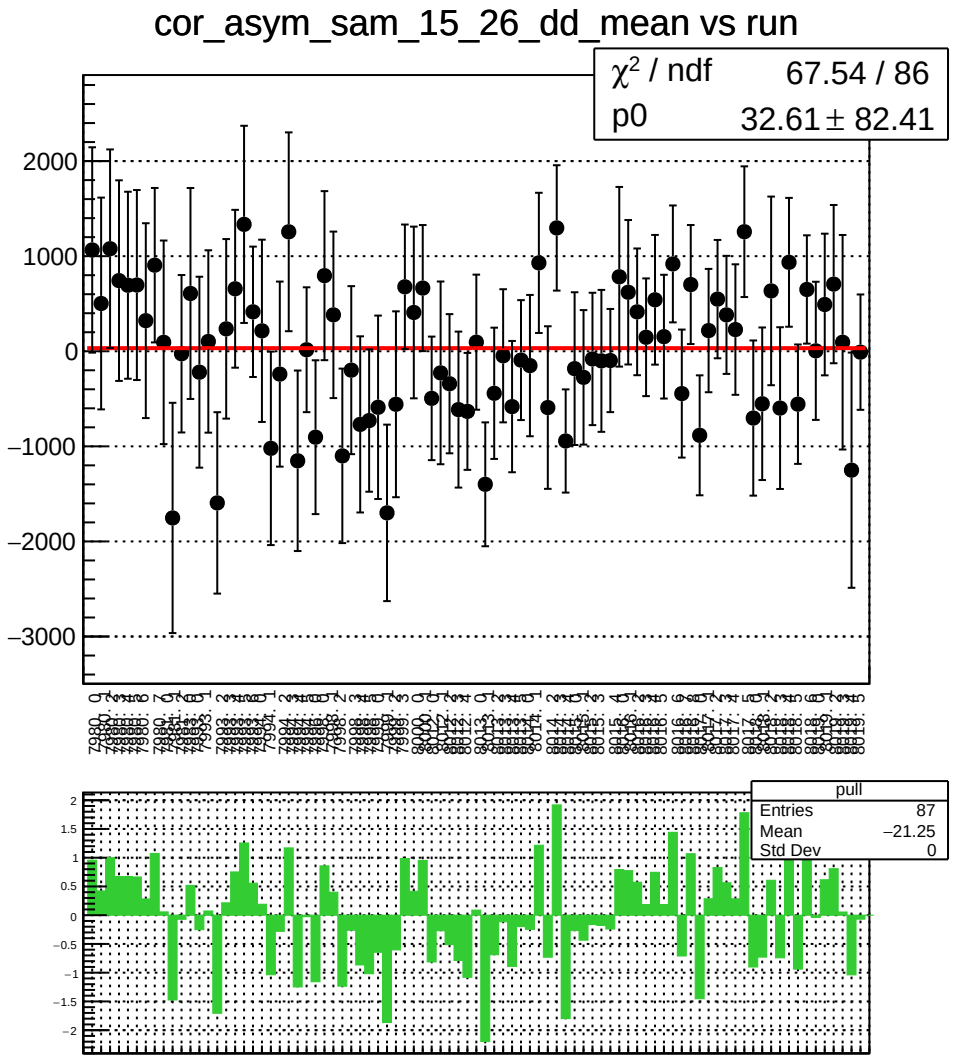

pull1D
Entries 87
Mean −0.006692
Std Dev 0.8811
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

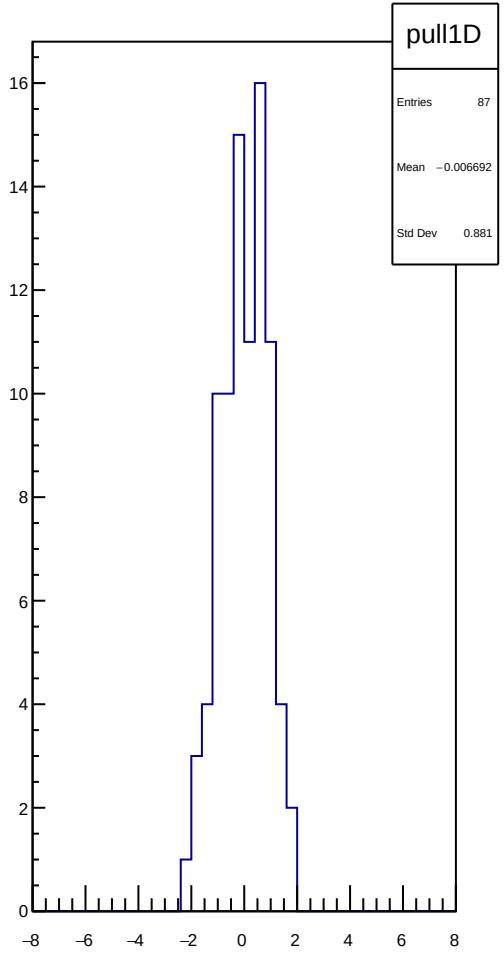

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 5.946e+04 / 86
p0 76 ± 0.05827
140
130
120
110
100
90
80
70
60

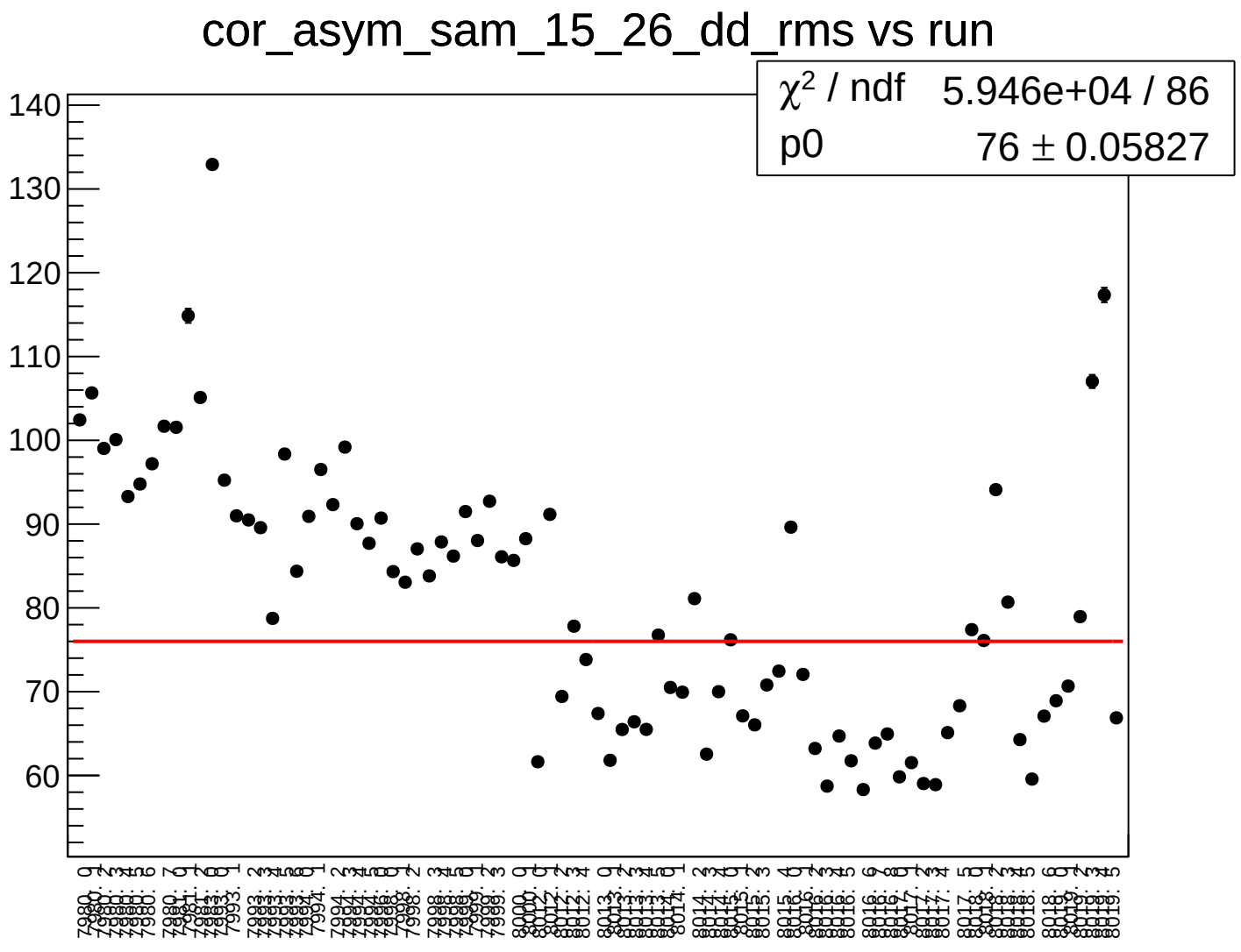

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 102.8 / 86
p0 −1022 ± 680.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −89.04
Std Dev 0
3
2
1
0
−1
−2

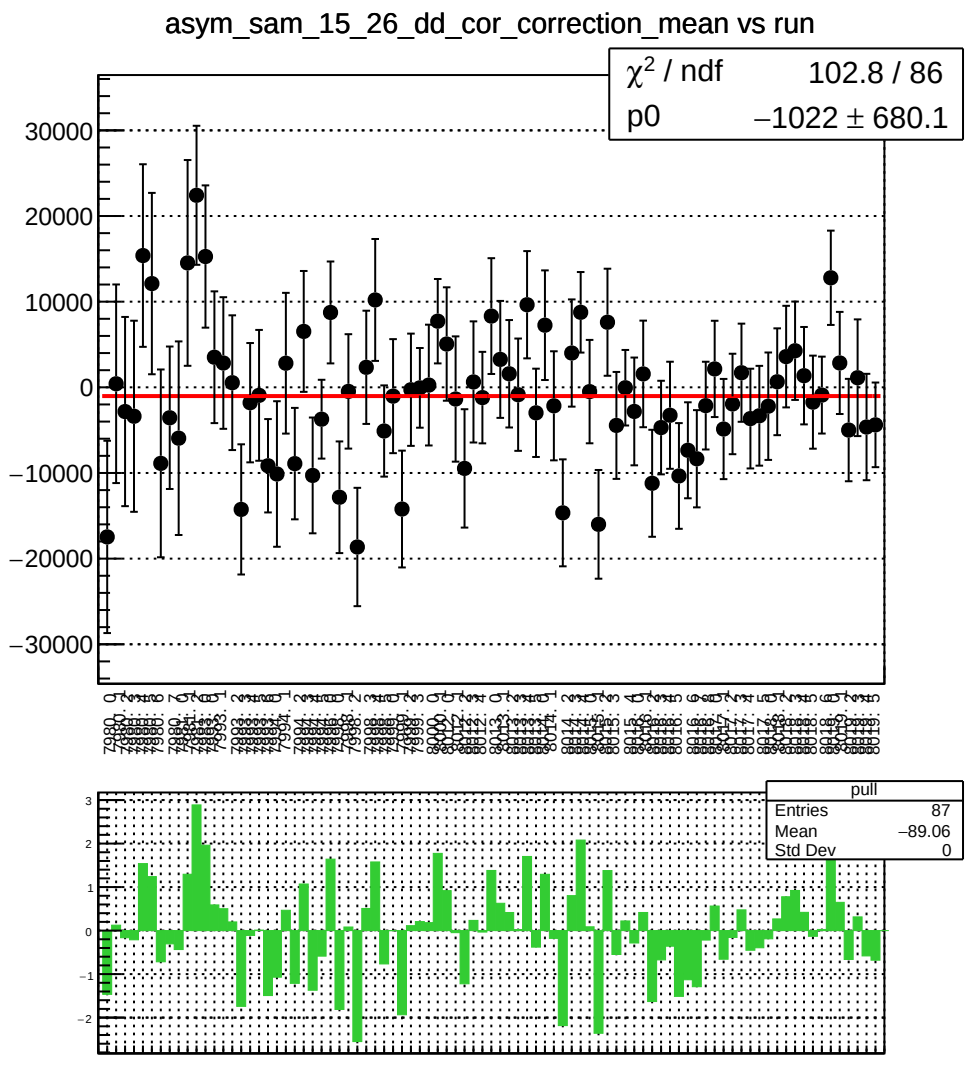

pull1D
Entries 87
Mean 0.006619
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

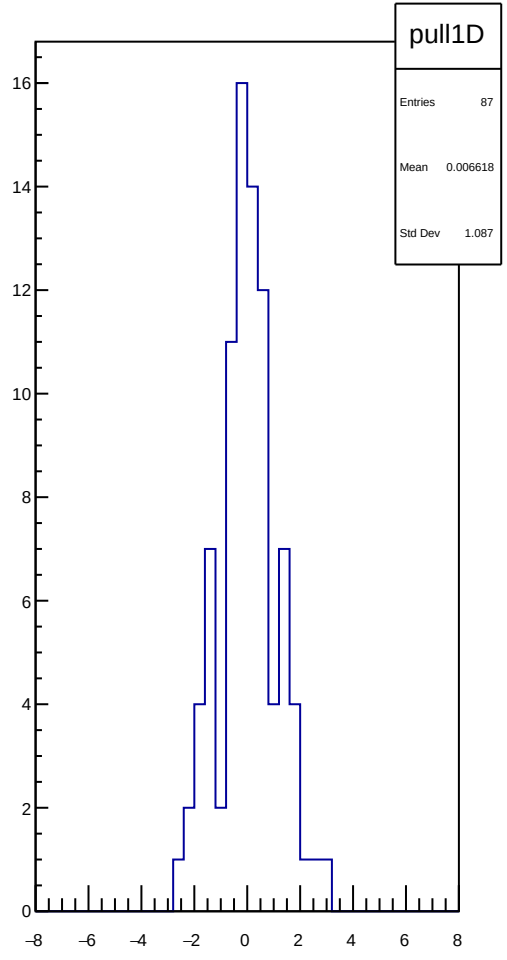

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 5.572e+04 / 86
p0 627.9 ± 0.4809
1200
1100
1000
900
800
700
600
500

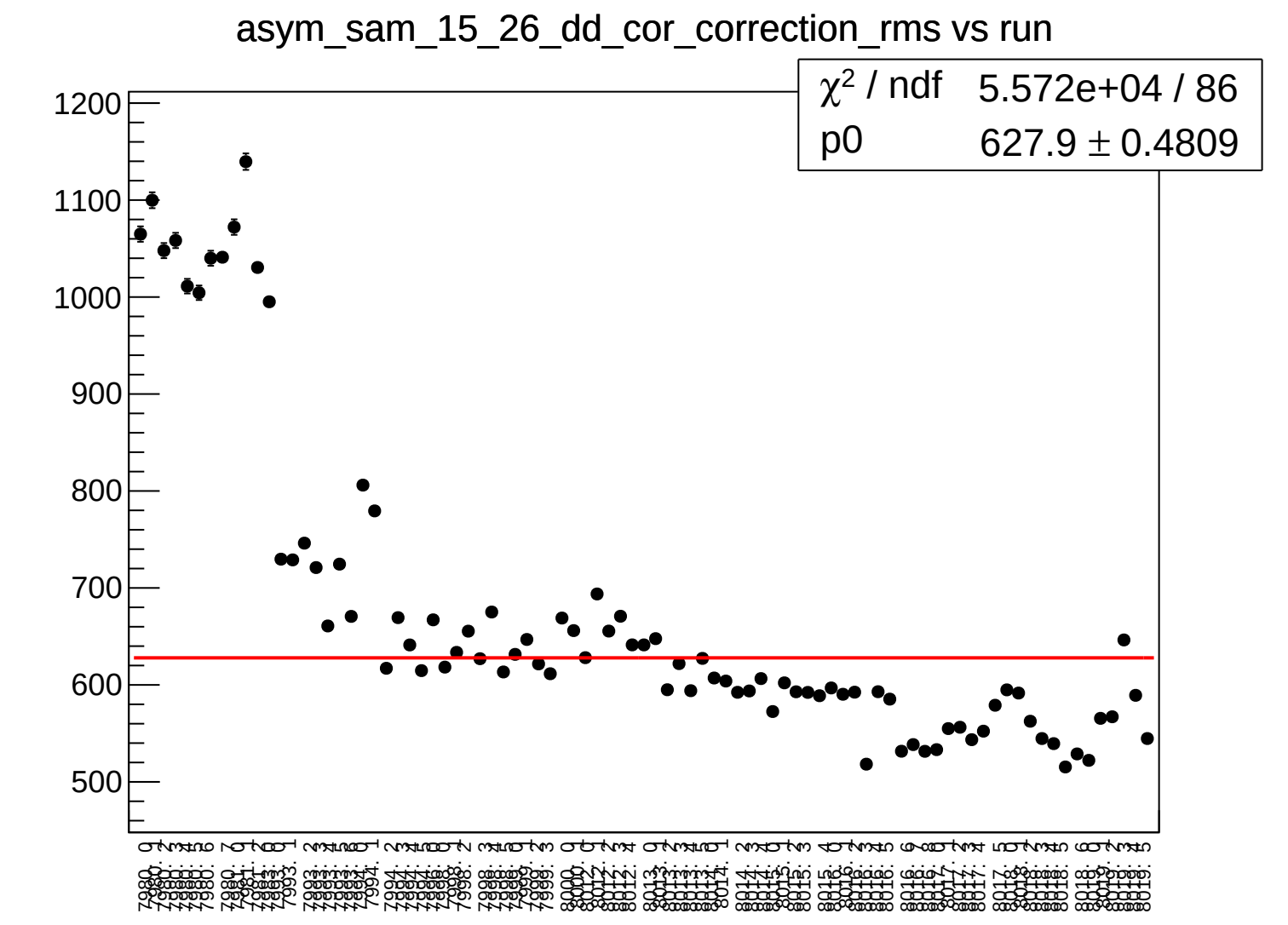

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 67.54 / 86
p0 32.61 ± 82.41
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −21.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

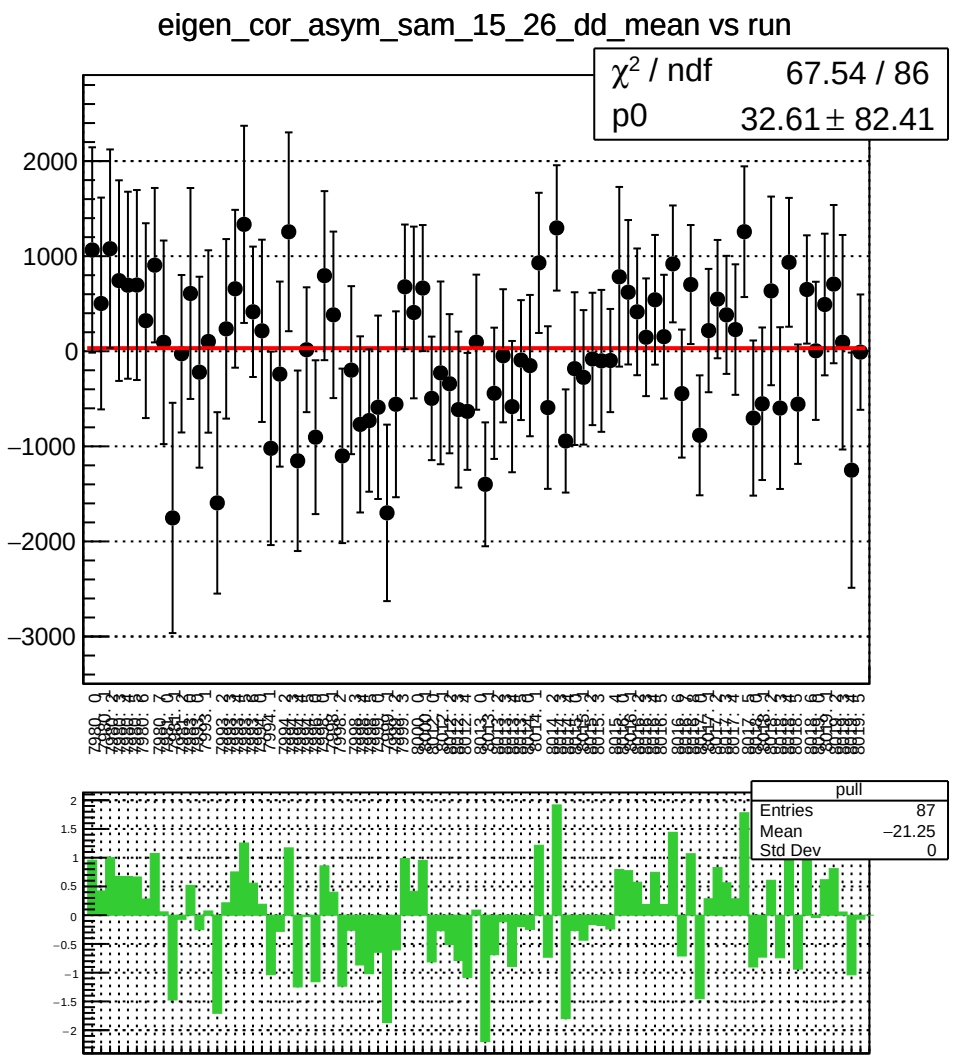

pull1D
Entries 87
Mean −0.006692
Std Dev 0.881
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

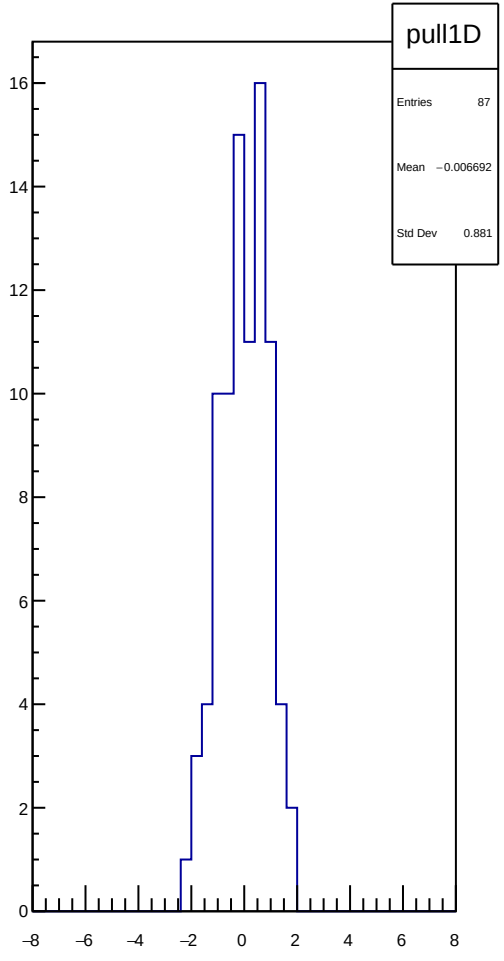

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 5.946e+04 / 86
p0 76 ± 0.05827
140
130
120
110
100
90
80
70
60

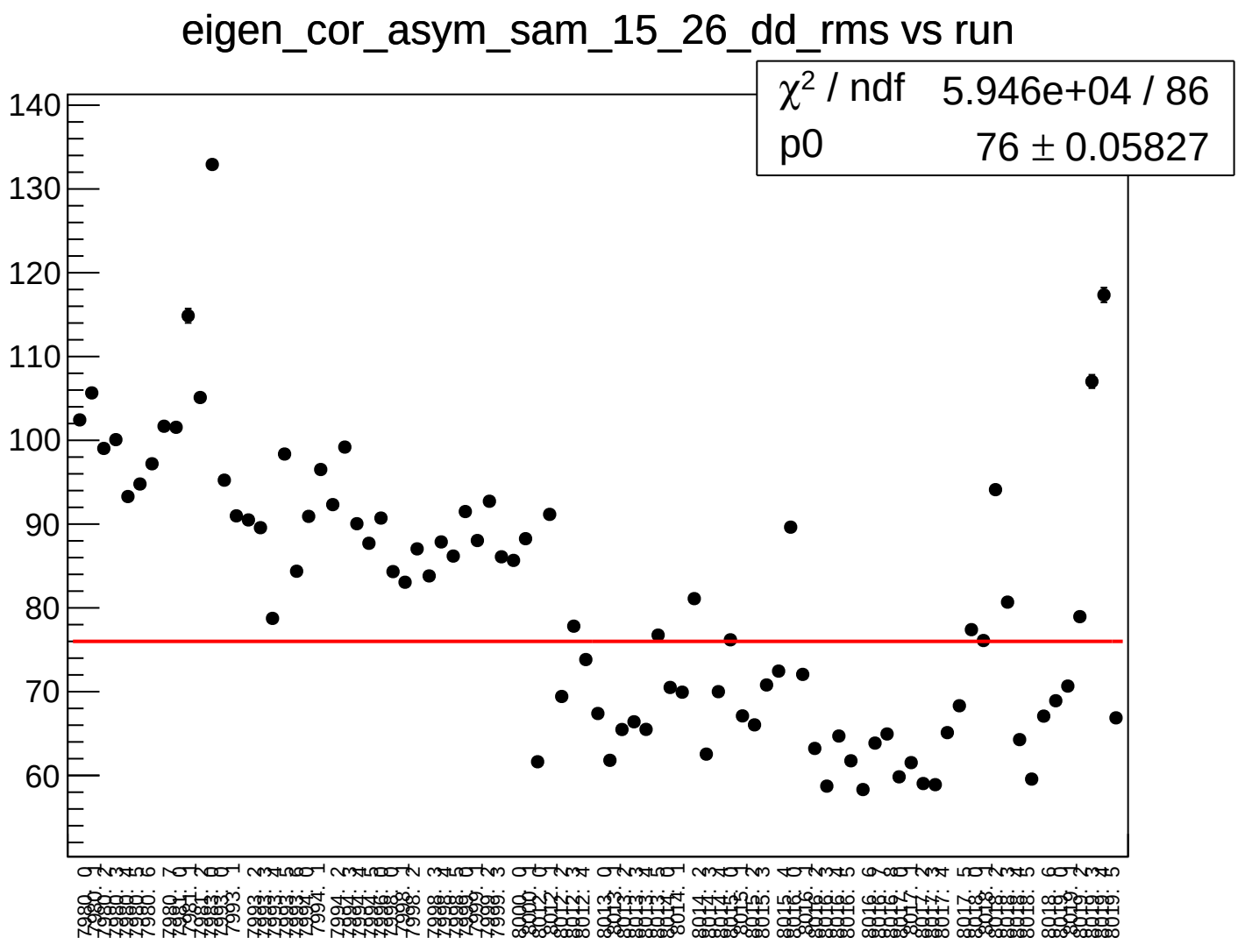

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 102.8 / 86
p0 −1022 ± 680.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −89.06
Std Dev 0
3
2
1
0
−1
−2

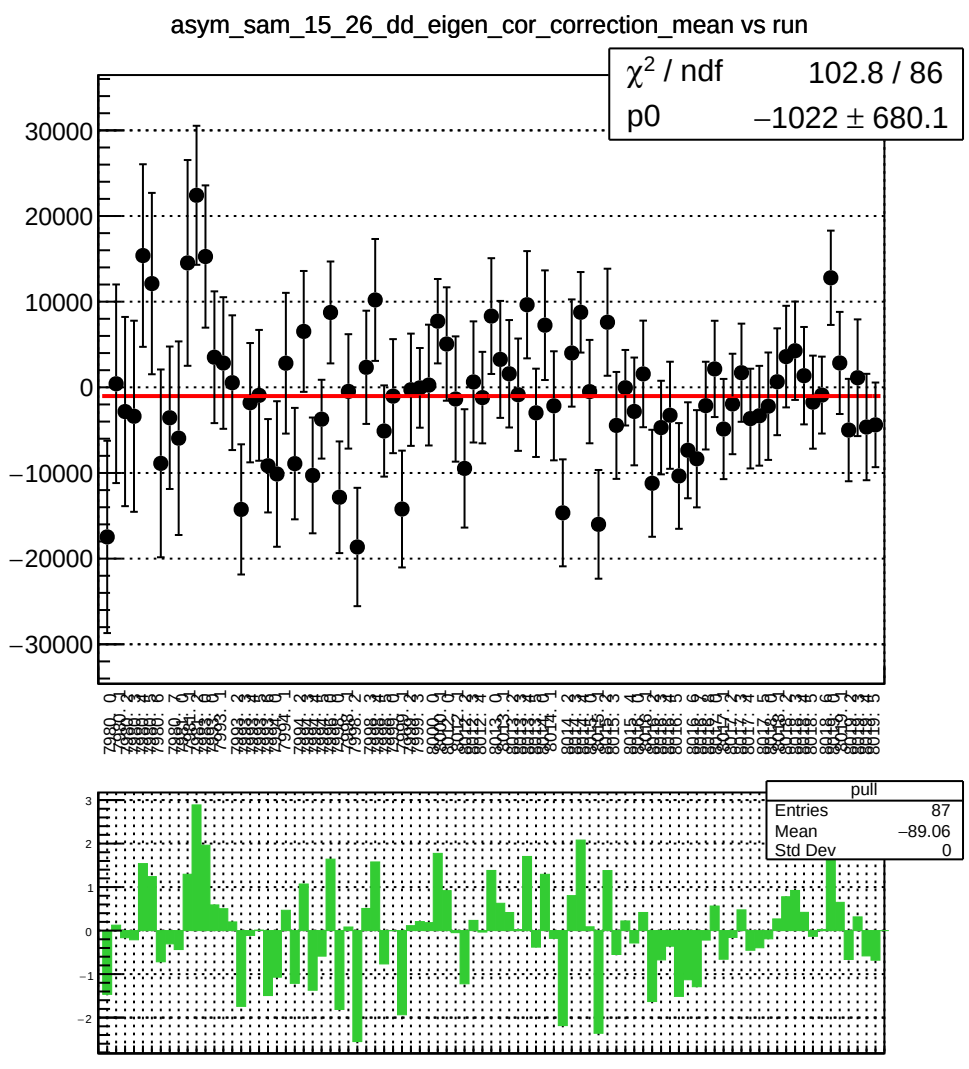

pull1D
Entries 87
Mean 0.006618
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

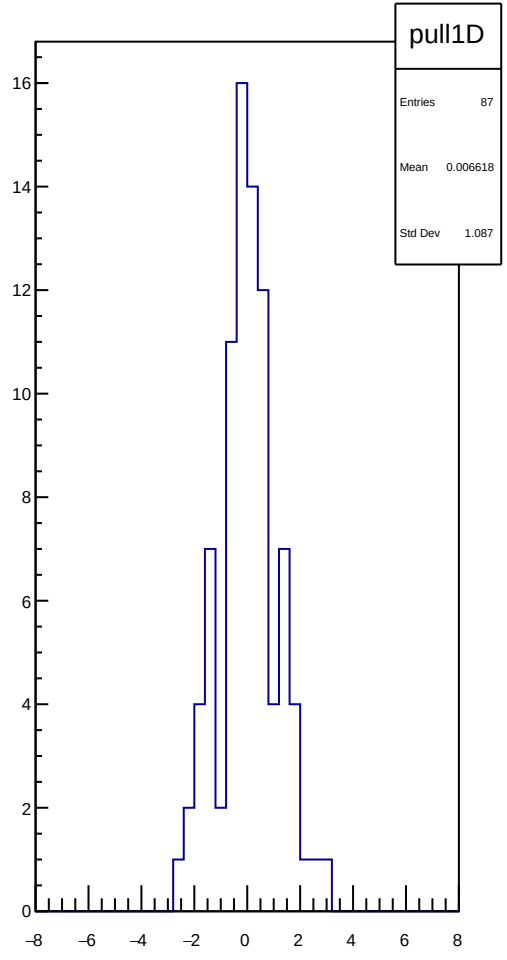

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 5.572e+04 / 86
p0 627.9 ± 0.4809
1200
1100
1000
900
800
700
600
500

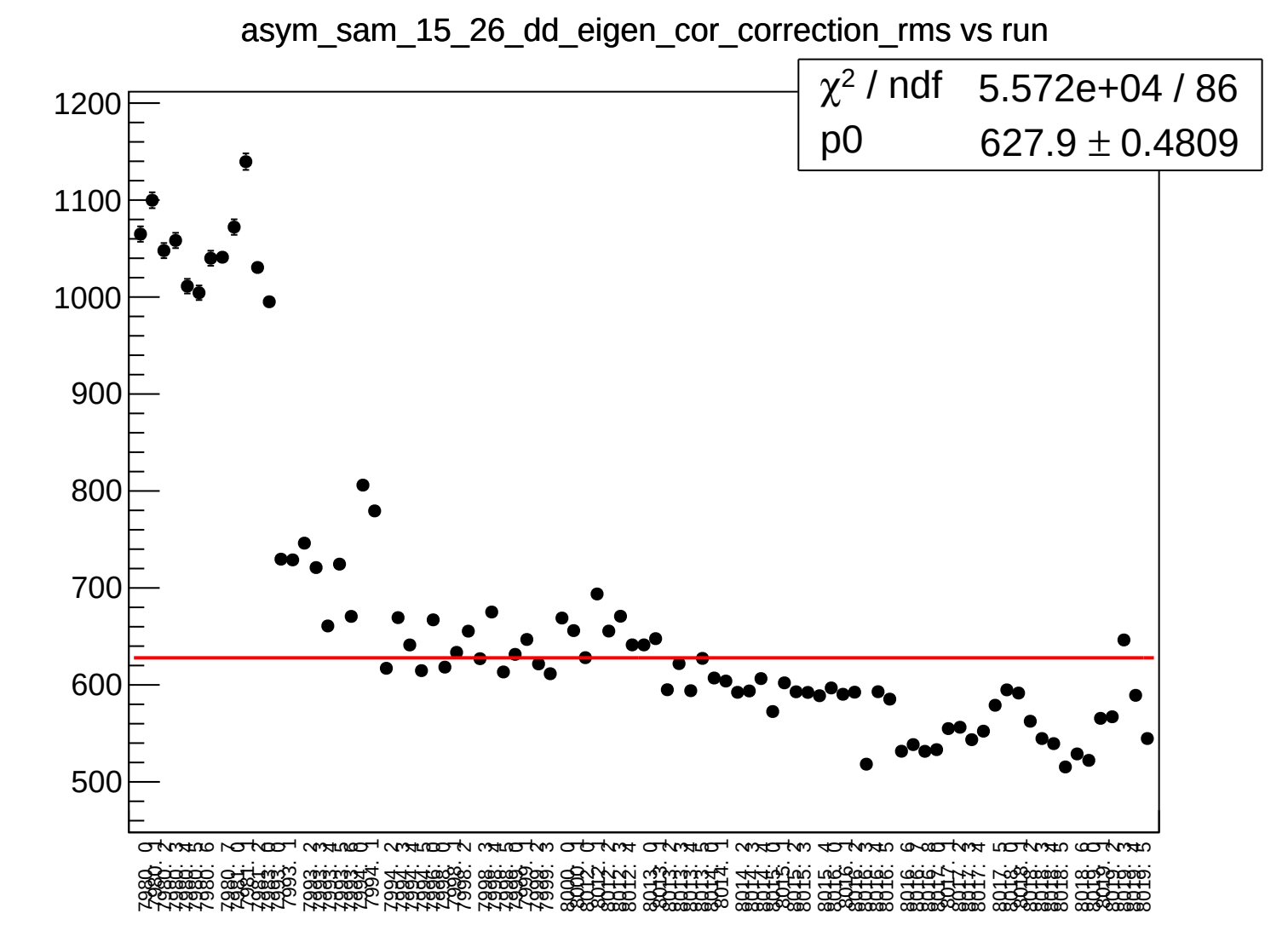

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 67.54 / 86
p0 32.61 ± 82.41
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −21.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

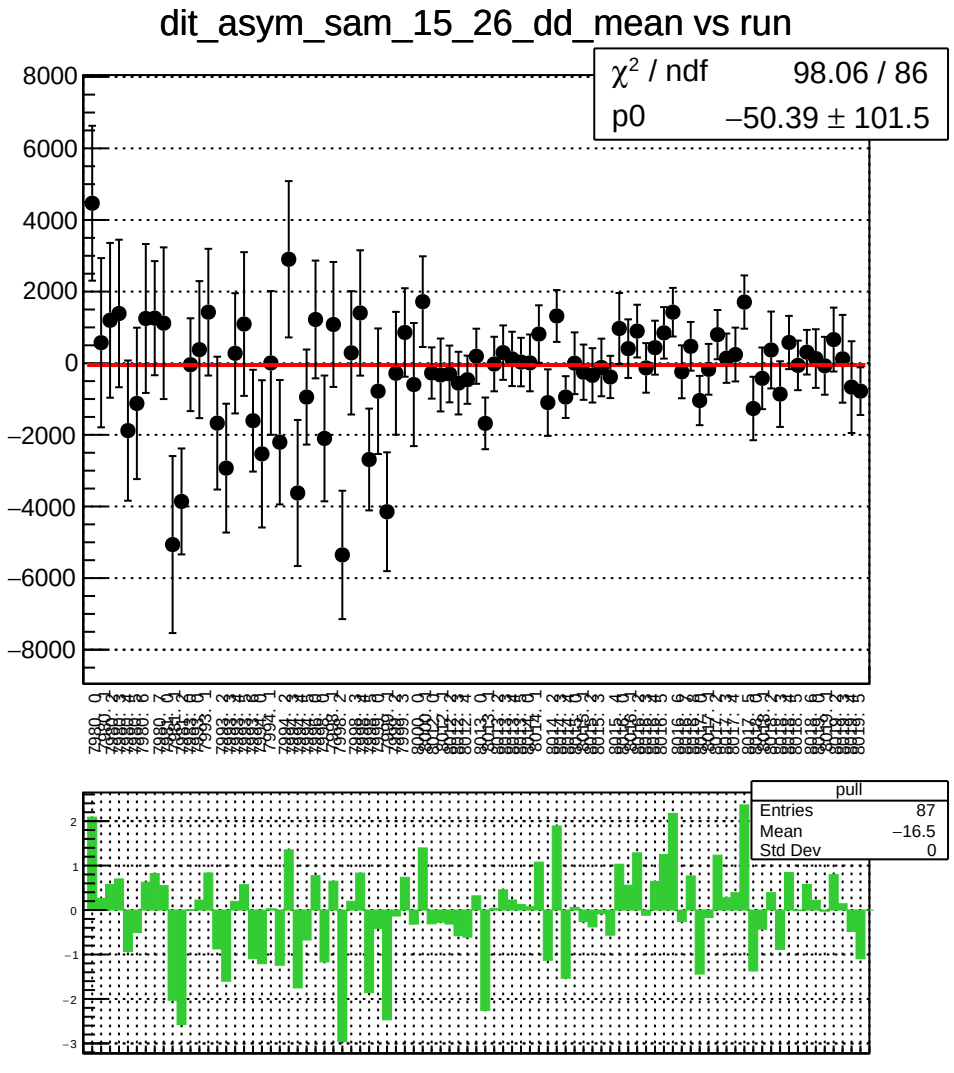

pull1D
Entries 87
Mean −0.006692
Std Dev 0.881
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

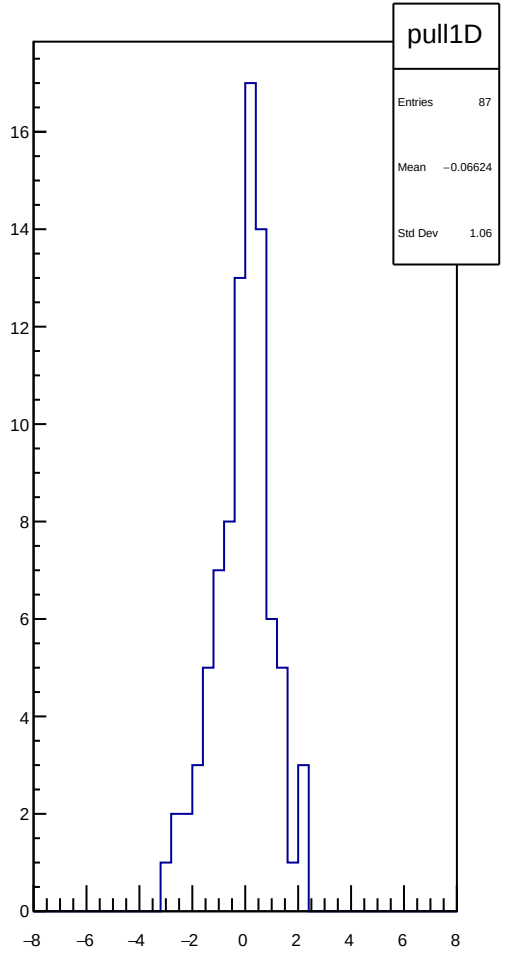

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 5.946e+04 / 86
p0 76 ± 0.05827
140
130
120
110
100
90
80
70
60

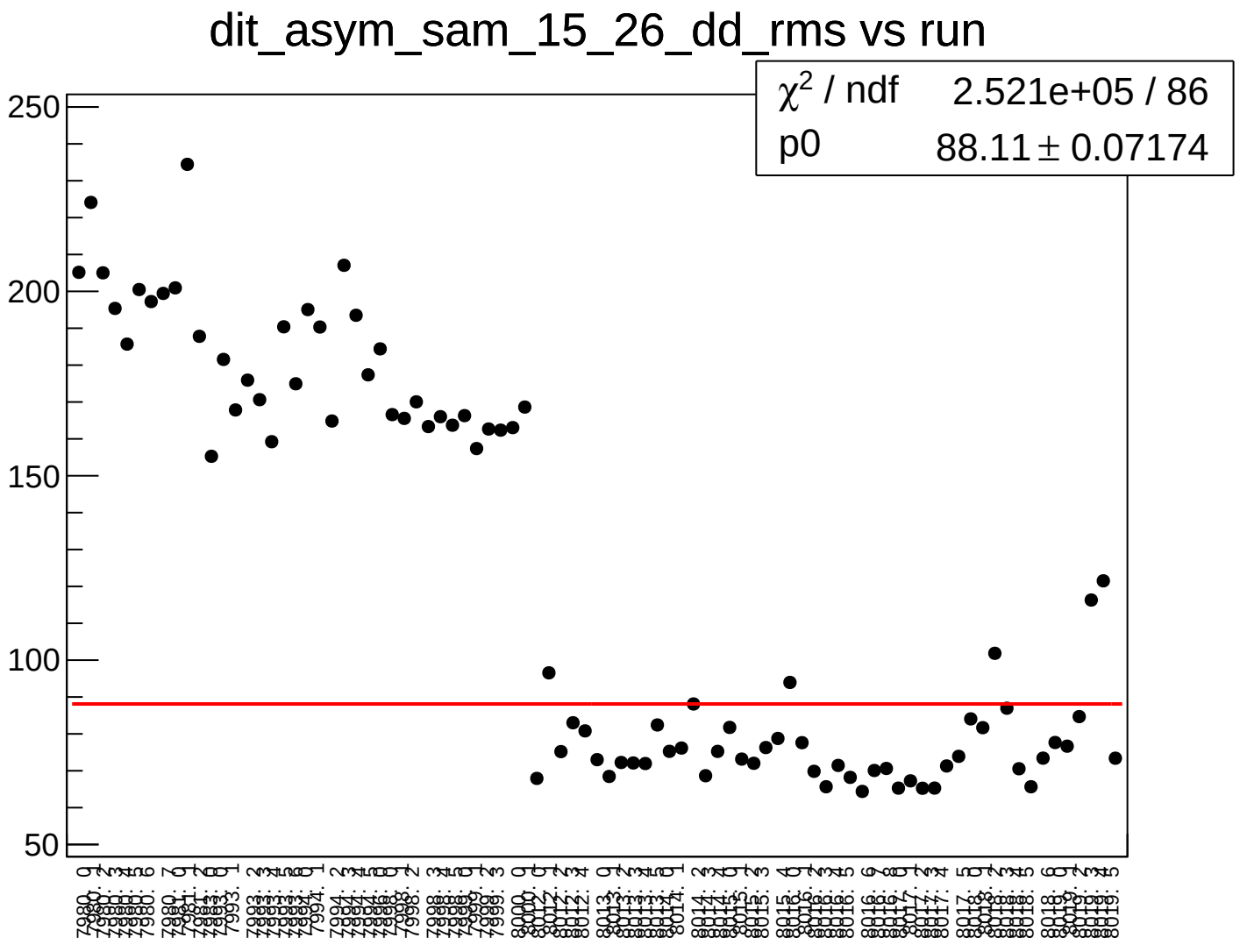

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.8 / 86
p0 −1022 ± 680.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −89.06
Std Dev 0
3
2
1
0
−1
−2

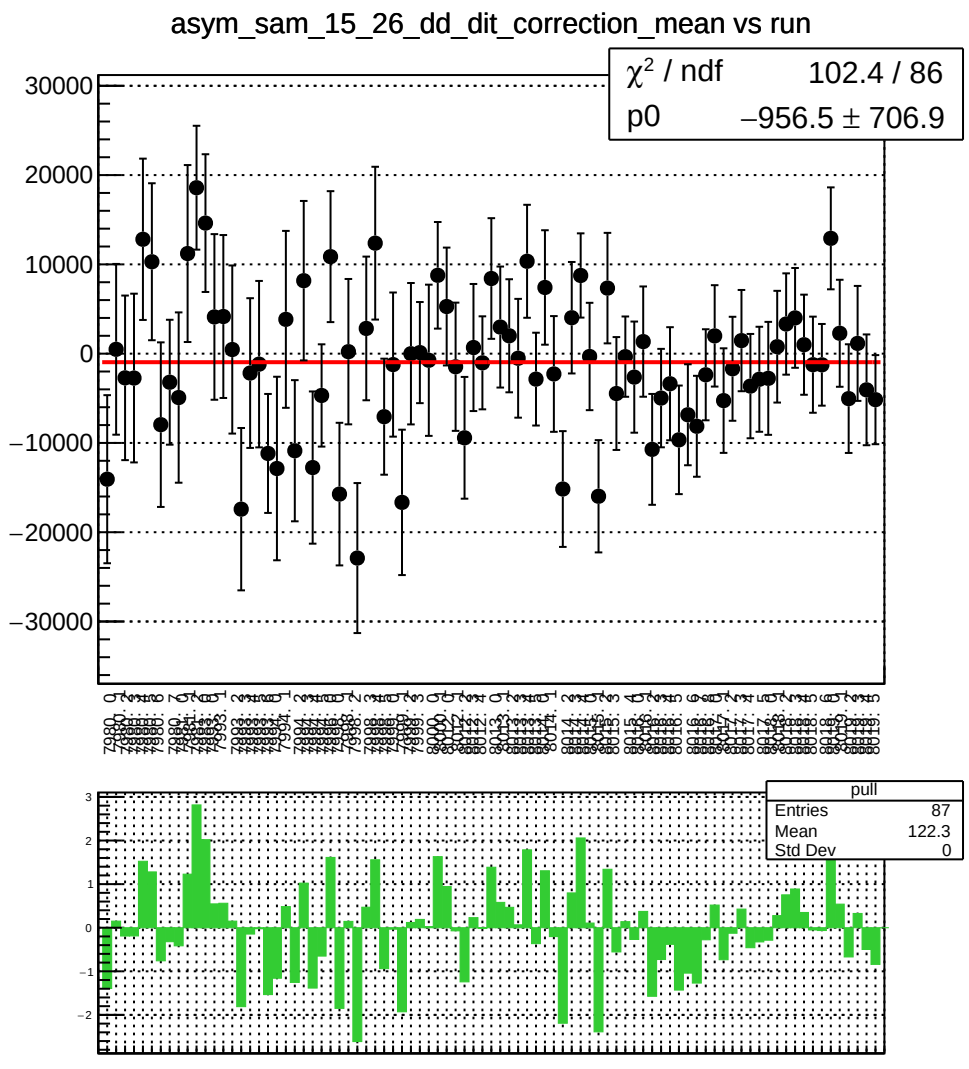

pull1D
Entries 87
Mean 0.006618
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

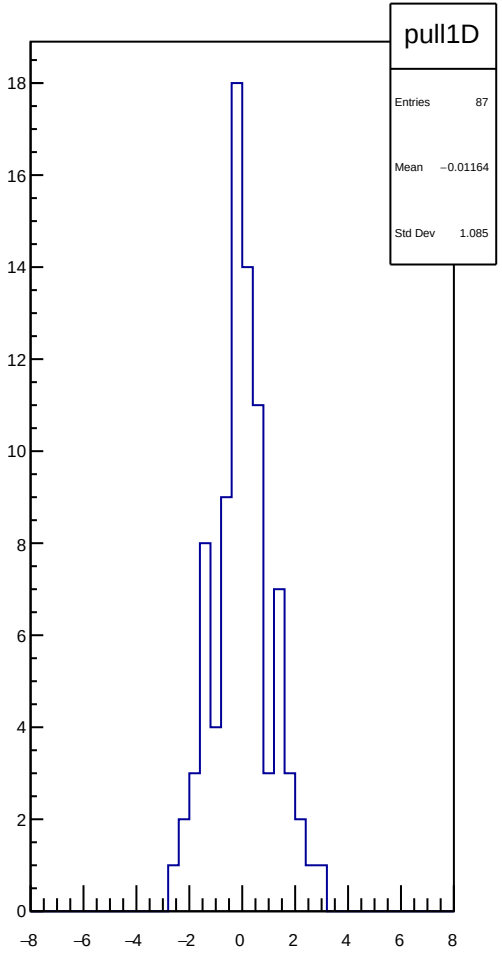

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.572e+04 / 86
p0 627.9 ± 0.4809
1200
1100
1000
900
800
700
600
500

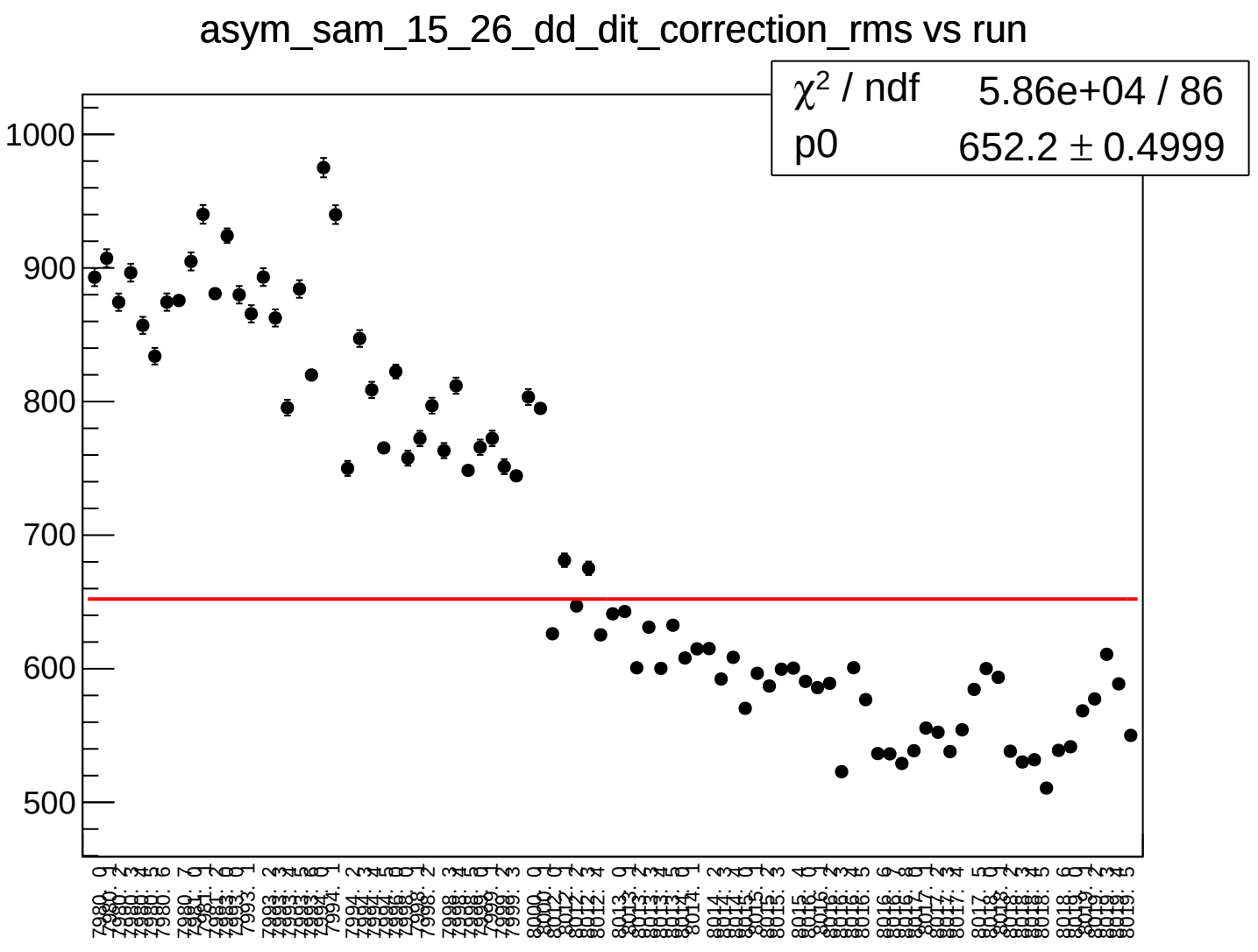

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 98.06 / 86
p0 −50.39 ± 101.5
pull
Entries 87
Mean −16.5
Std Dev 0

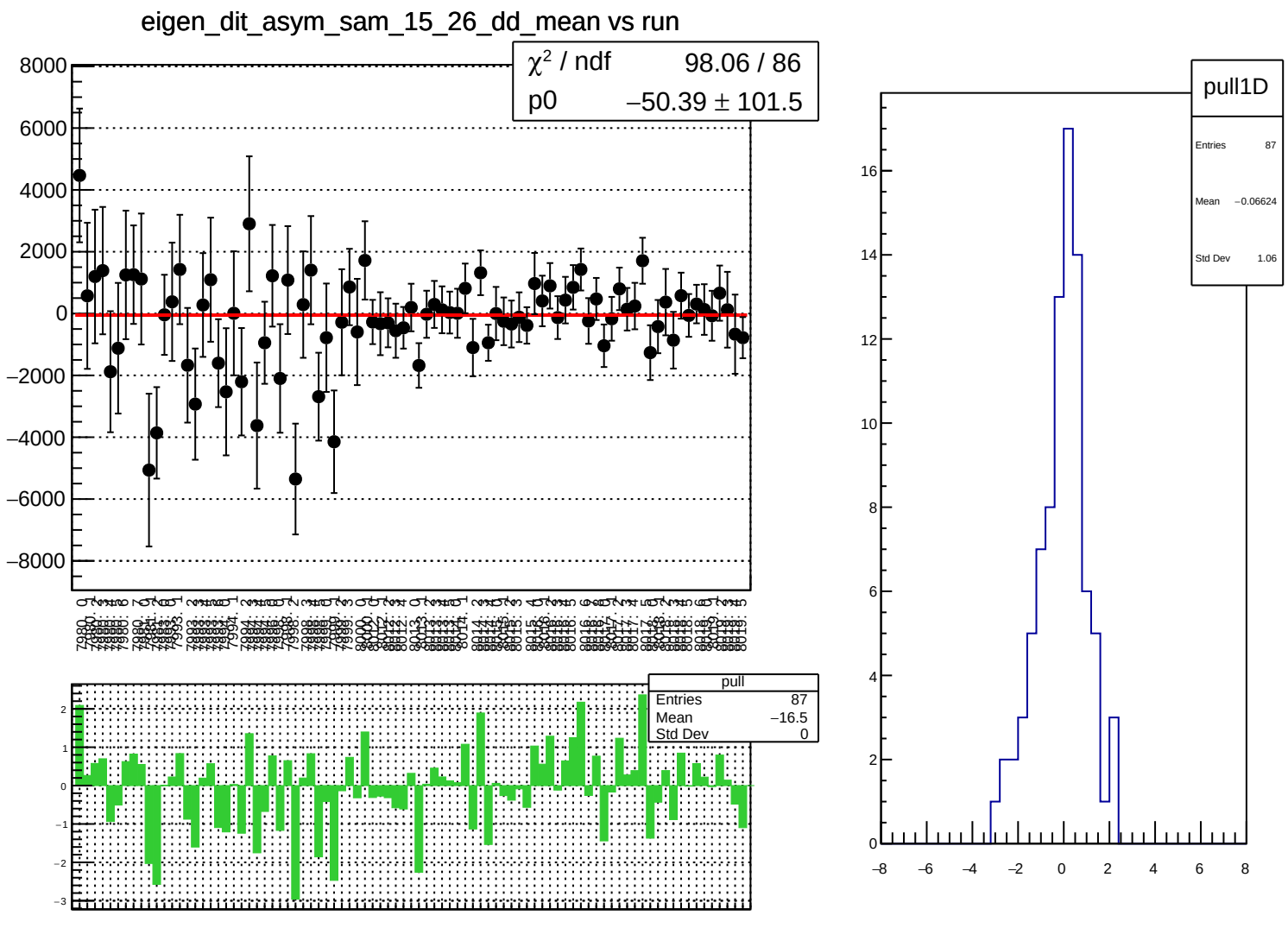

pull1D
Entries 87
Mean −0.06624
Std Dev 1.06

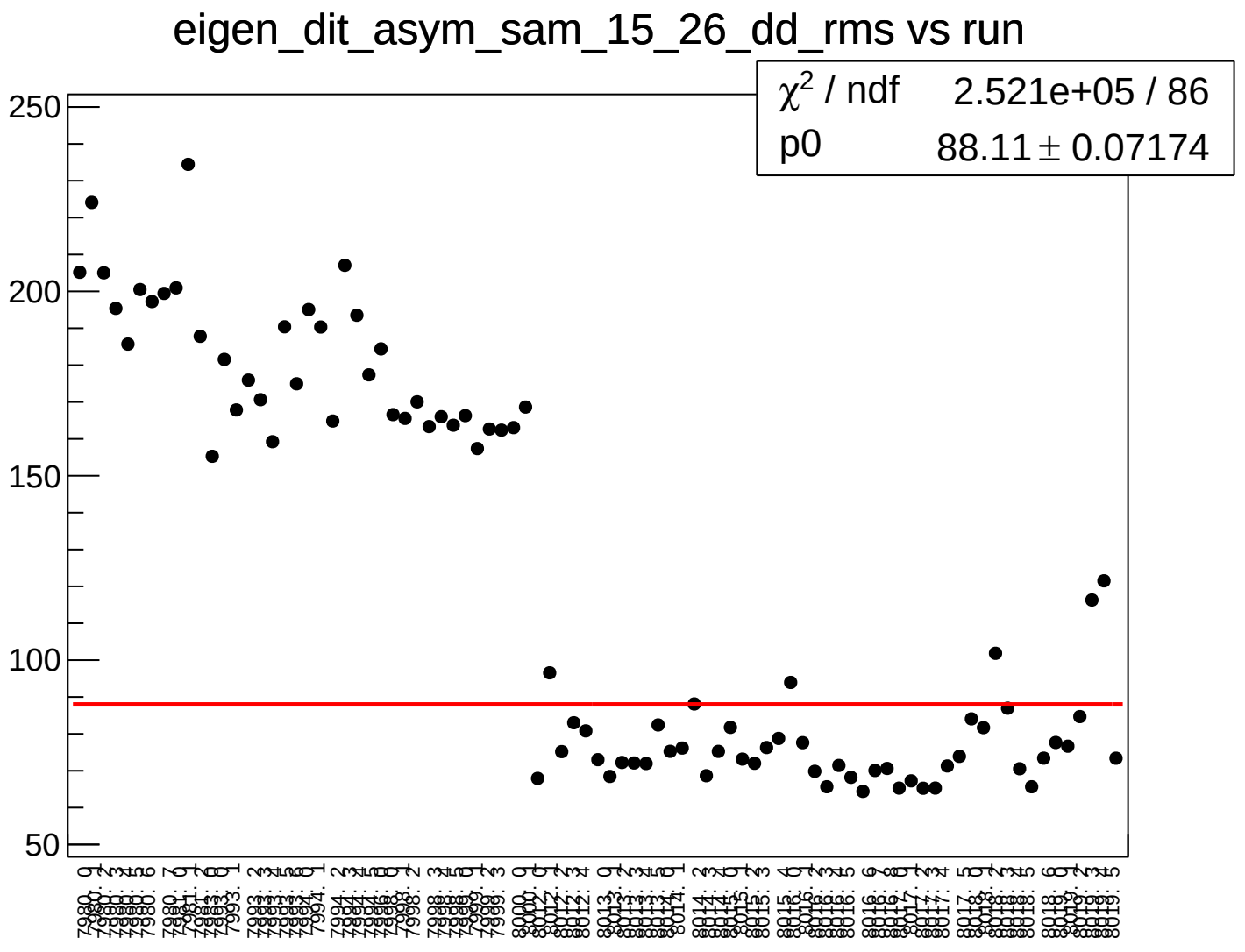

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 2.521e+05 / 86
p0 88.11 ± 0.07174
250
200
150
100
50

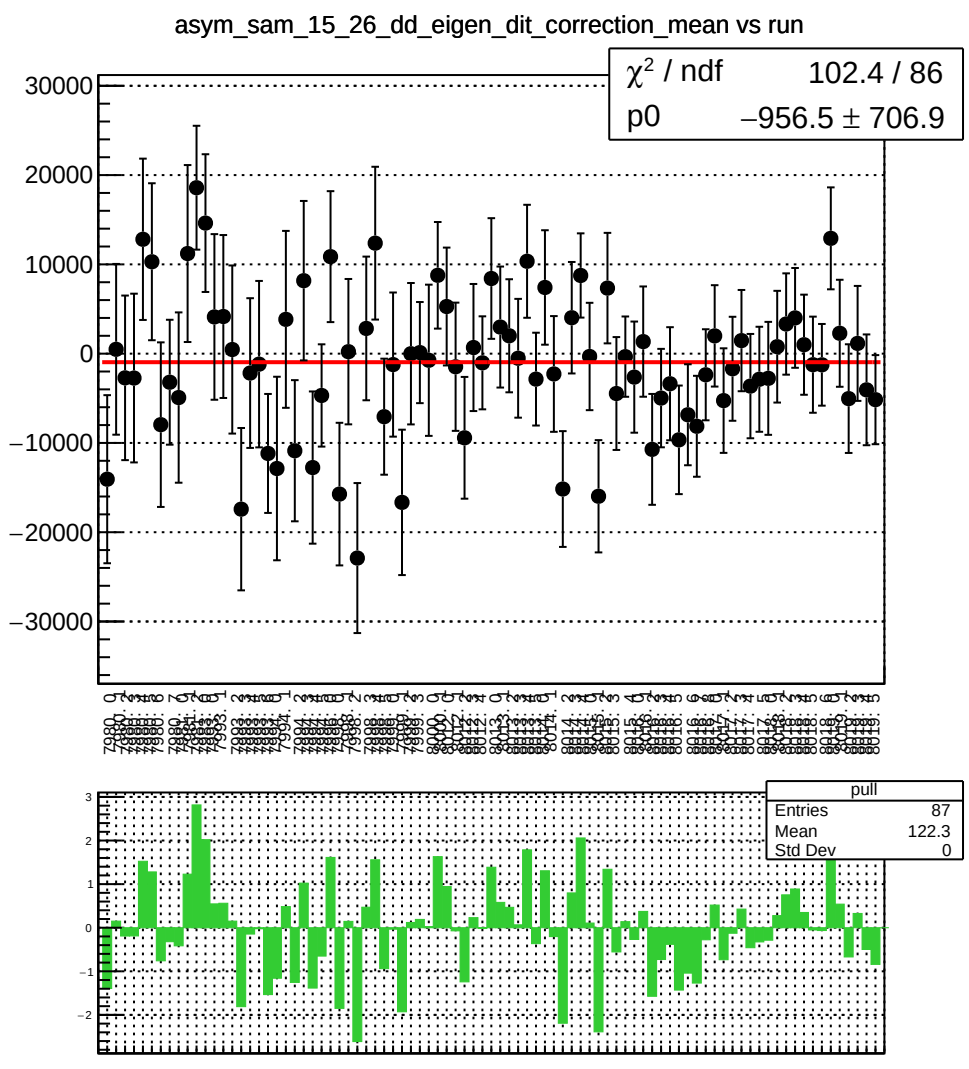

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 102.4 / 86
p0 −956.5 ± 706.9
pull
Entries 87
Mean 122.3
Std Dev 0

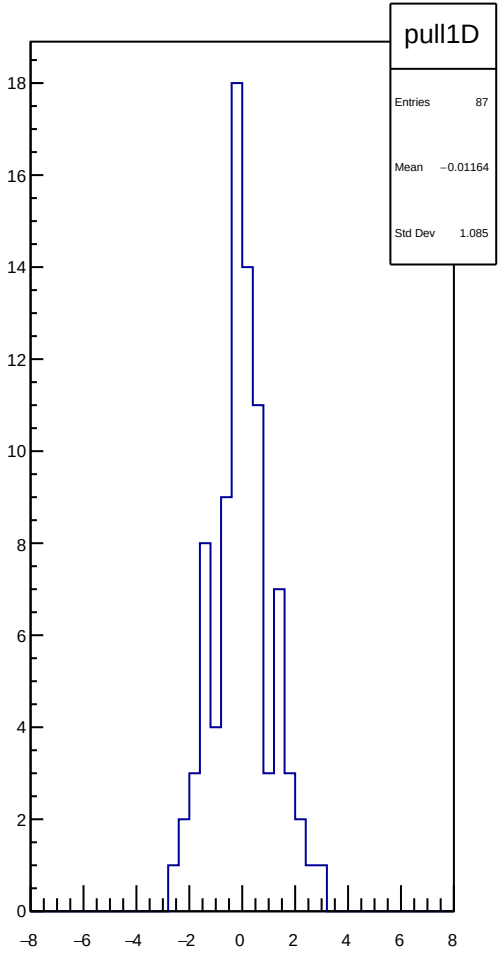

pull1D
Entries 87
Mean −0.01164
Std Dev 1.085

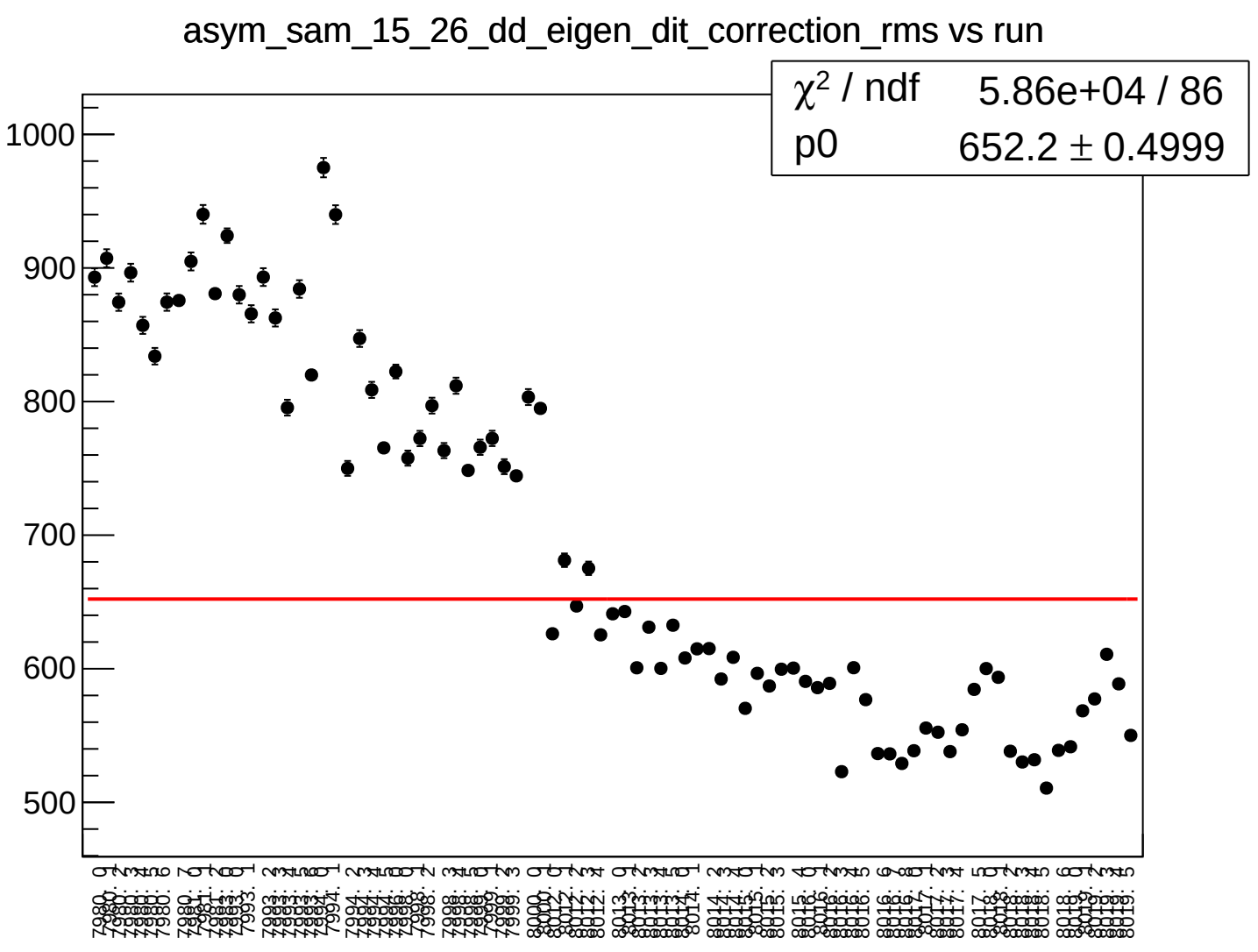

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 5.86e+04 / 86
p0 652.2 ± 0.4999
1000
900
800
700
600
500

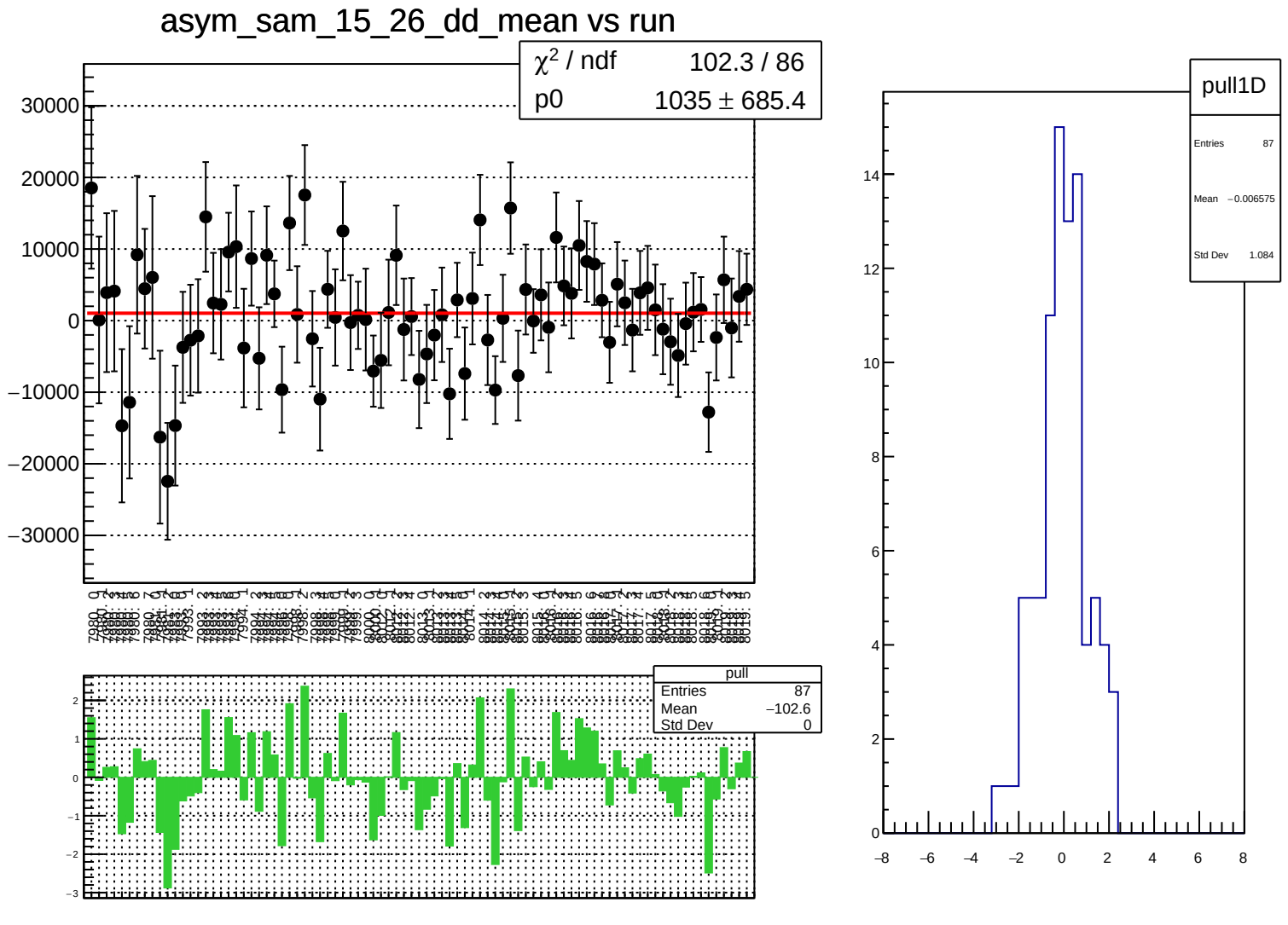

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 98.06 / 86
p0 −50.39 ± 101.5
pull
Entries 87
Mean −16.5
Std Dev 0
pull1D
Entries 87
Mean −0.06624
Std Dev 1.06

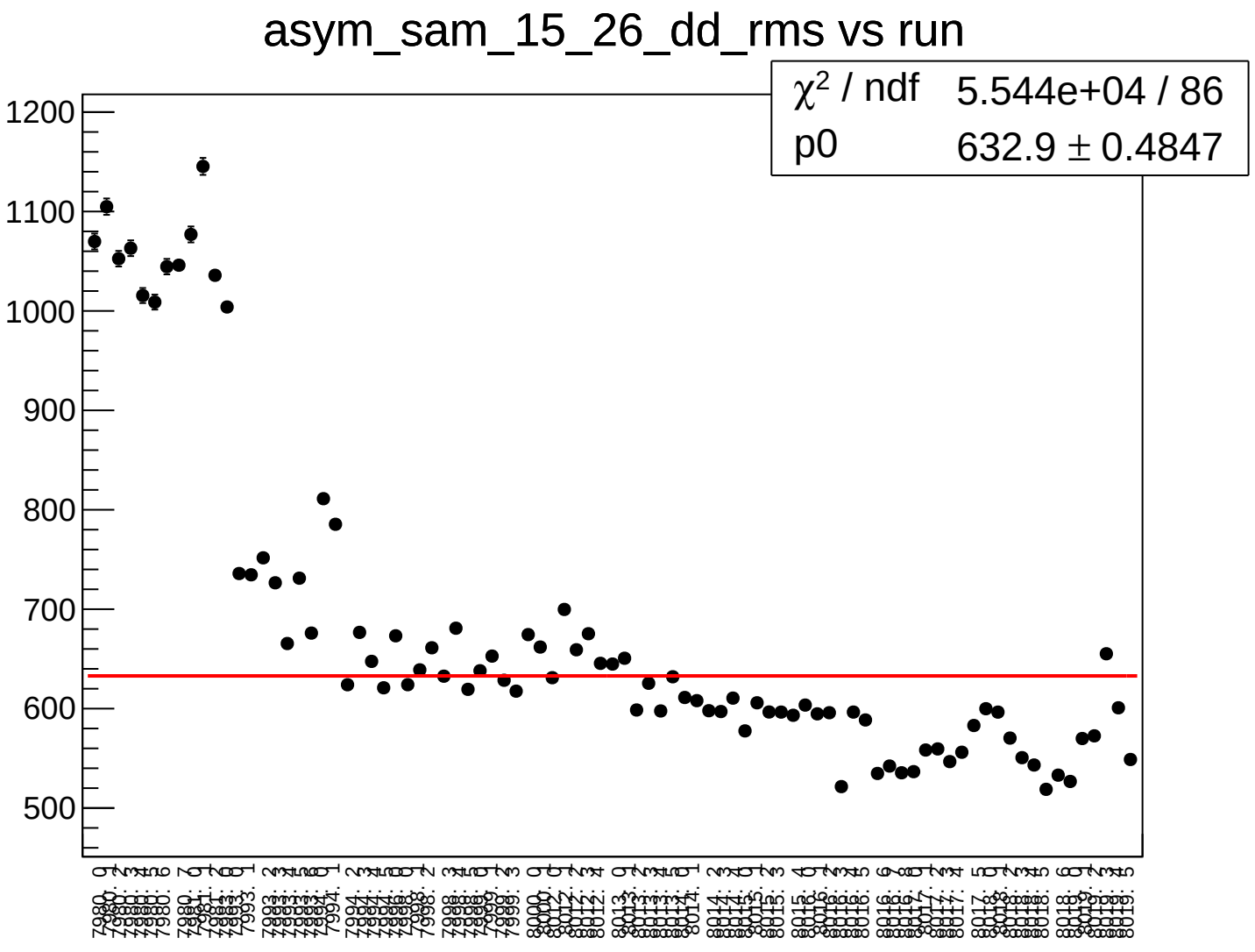

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.521e+05 / 86
p0 88.11 ± 0.07174
250
200
150
100
50

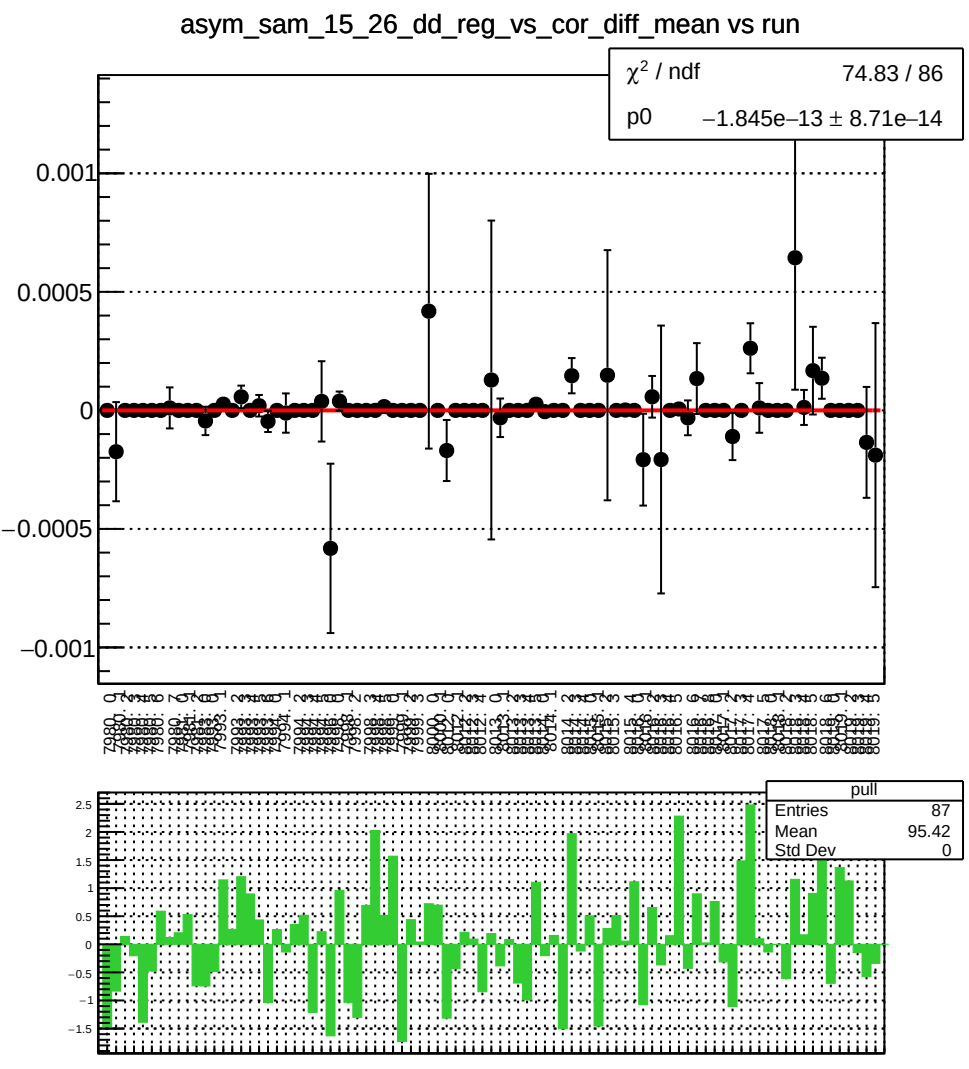

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.4 / 86
p0 −956.5 ± 706.9
pull
Entries 87
Mean 122.3
Std Dev 0

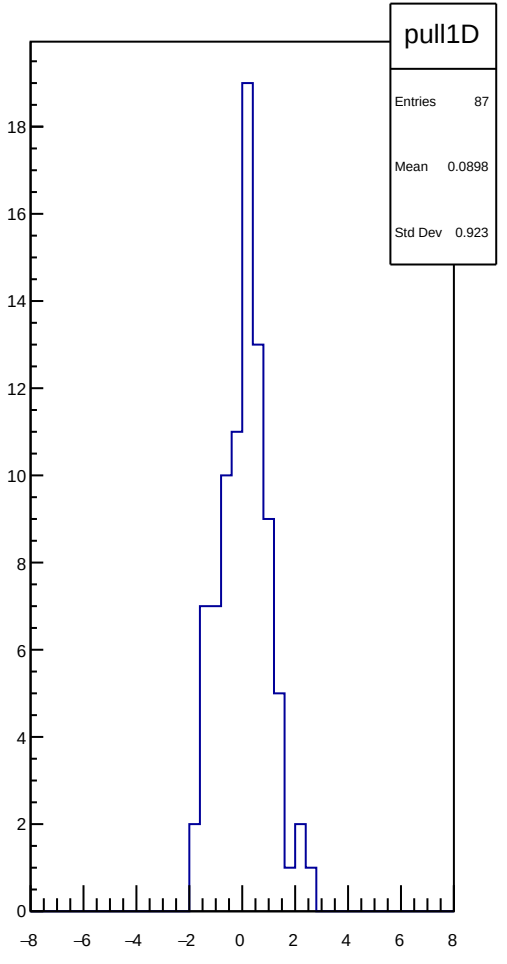

pull1D
Entries 87
Mean −0.01164
Std Dev 1.085

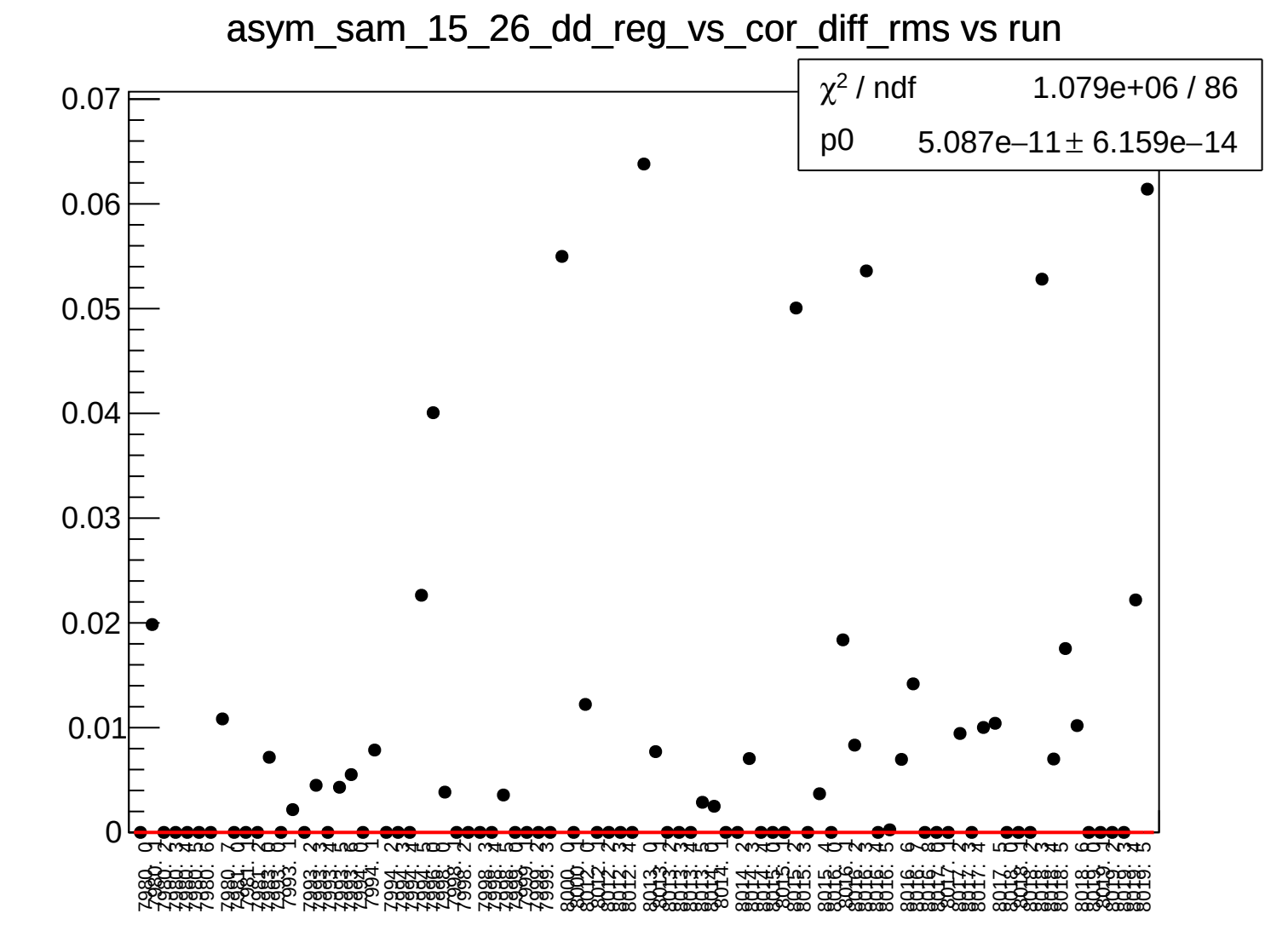

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.86e+04 / 86
p0 652.2 ± 0.4999
1000
900
800
700
600
500

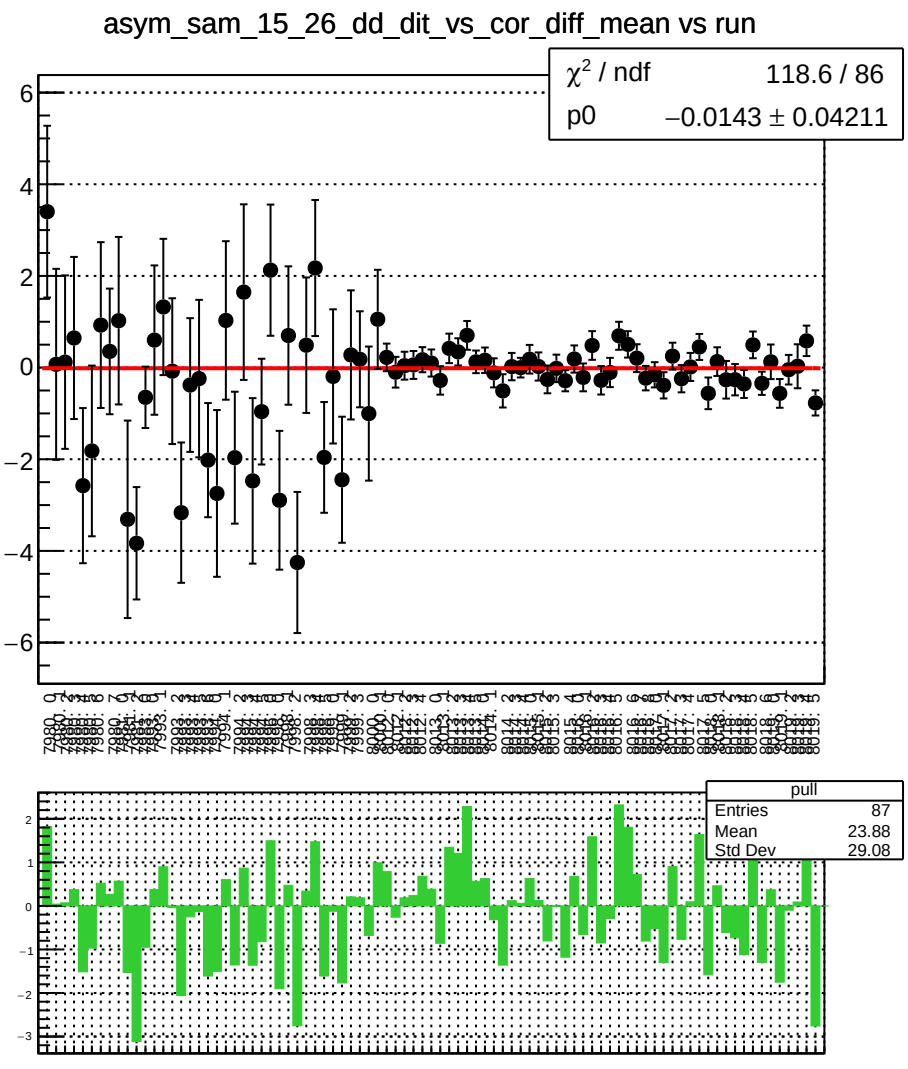

asym_sam_15_26_dd_mean vs run
χ² / ndf 102.3 / 86
p0 1035 ± 685.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −102.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.006575
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

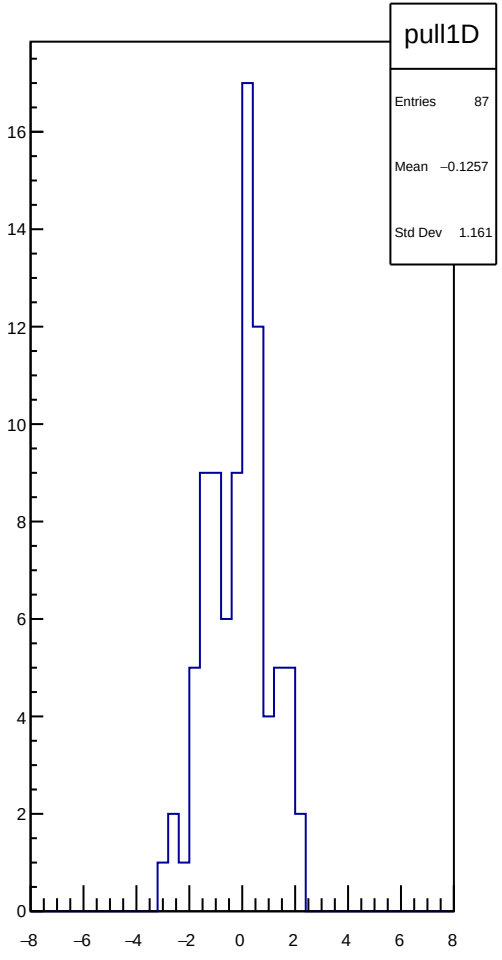

asym_sam_15_26_dd_rms vs run
χ^2 / ndf 5.544e+04 / 86
p0 632.9 ± 0.4847
1200
1100
1000
900
800
700
600
500

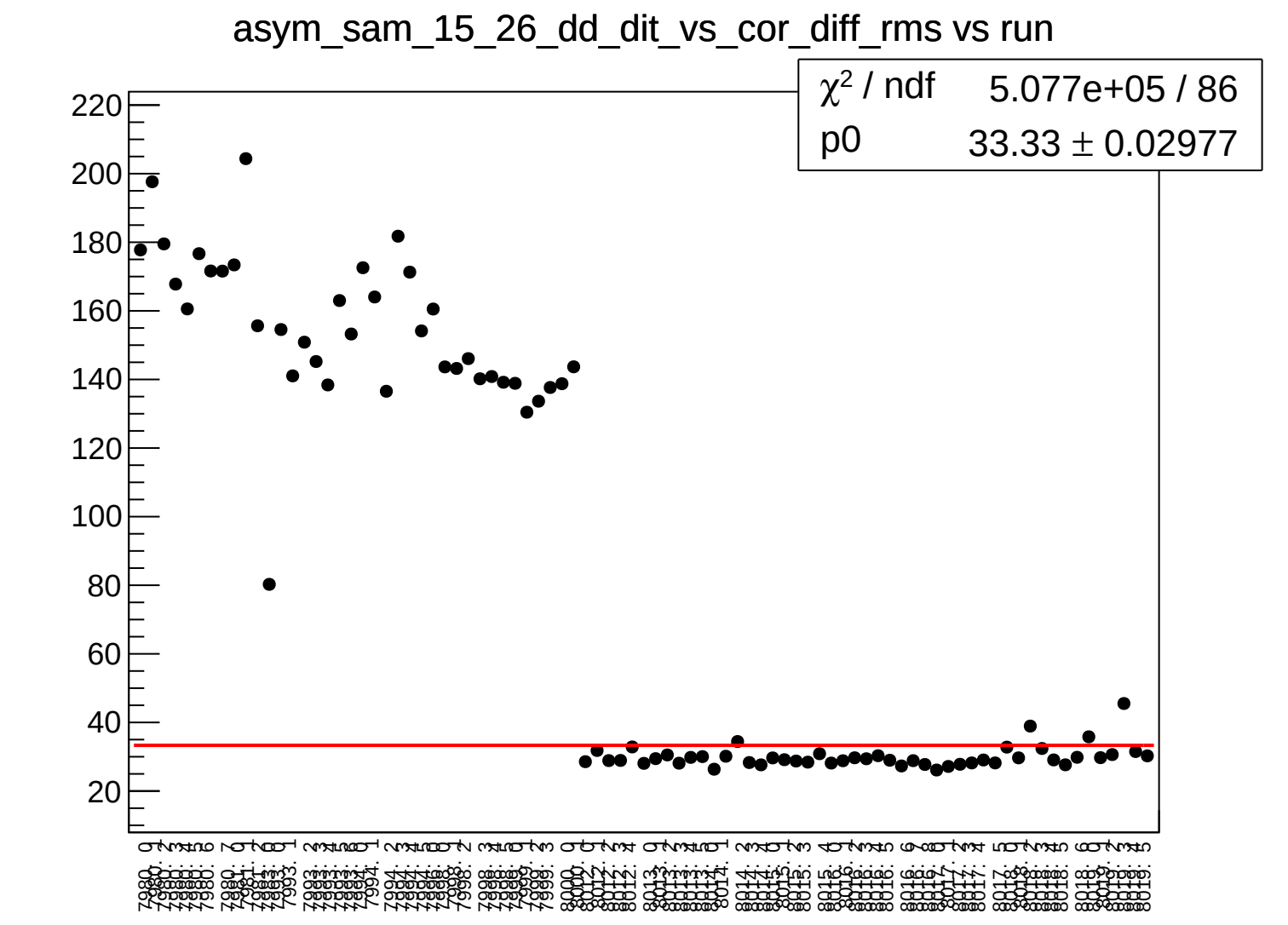

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.83 / 86
p0 −1.845e−13 ± 8.71e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean 95.42
Std Dev 0

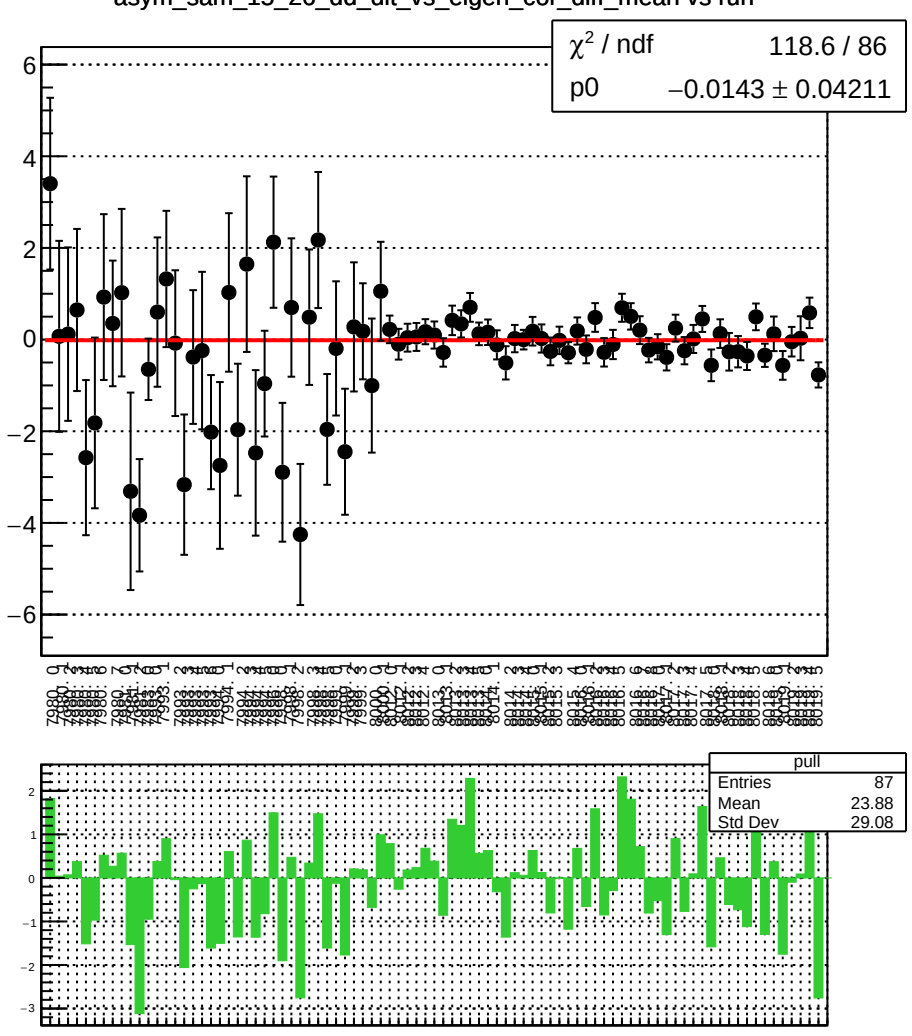

pull1D
Entries 87
Mean 0.0898
Std Dev 0.923

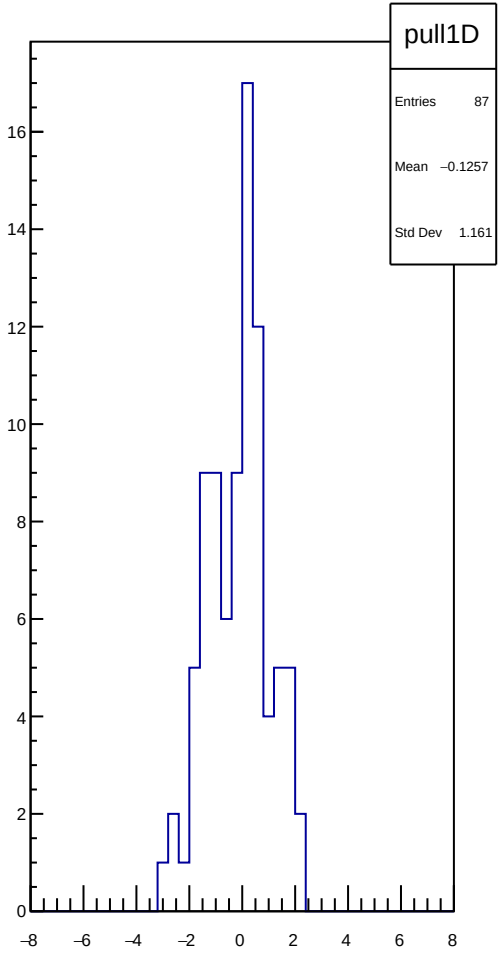

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.079e+06 / 86
p0 5.087e−11 ± 6.159e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

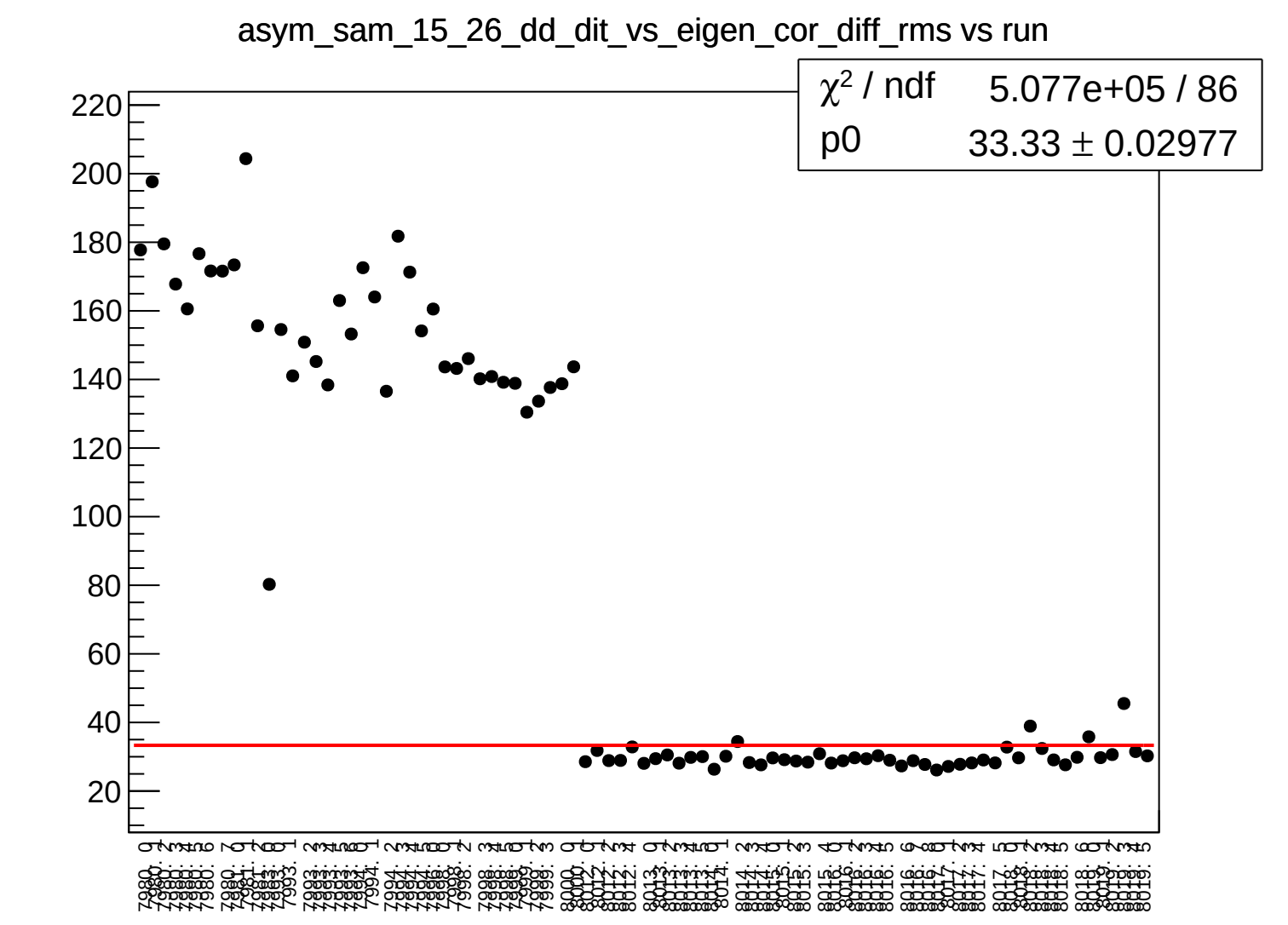

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 118.6 / 86
p0 −0.0143 ± 0.04211
pull
Entries 87
Mean 23.88
Std Dev 29.08

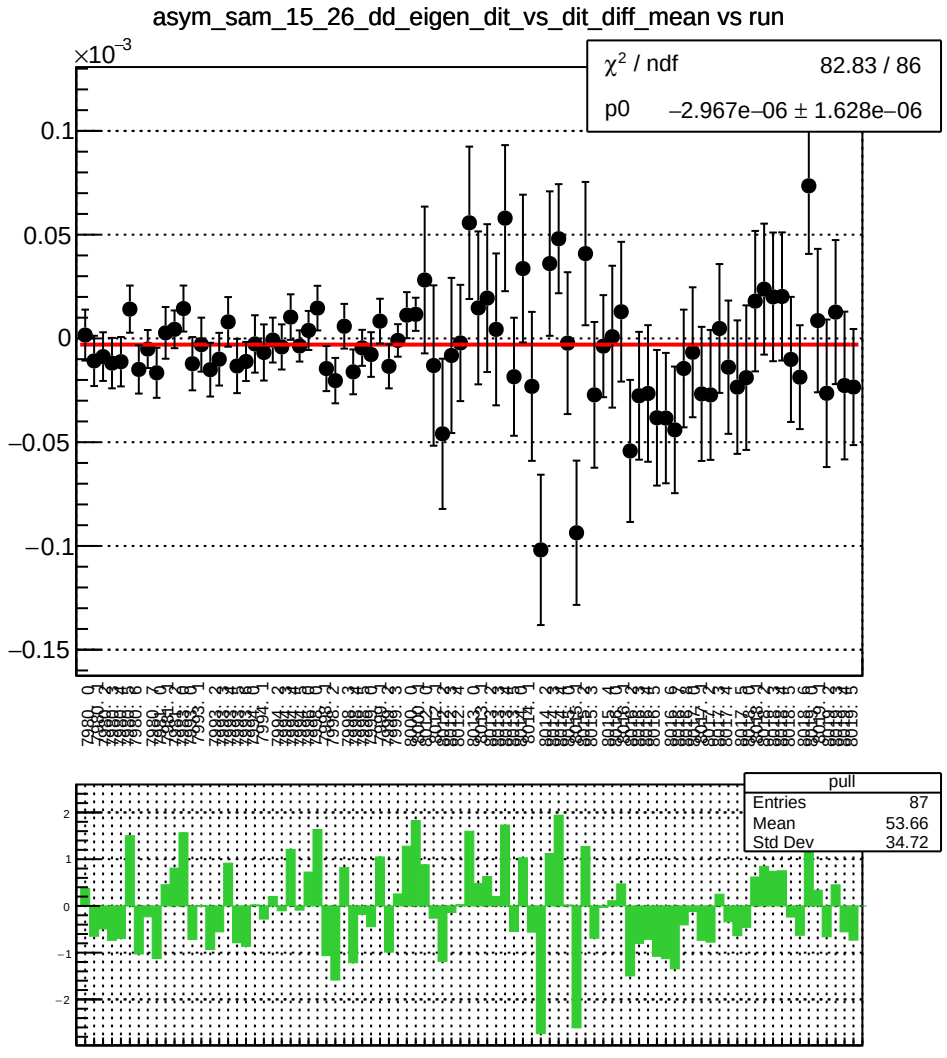

pull1D
Entries 87
Mean −0.1257
Std Dev 1.161

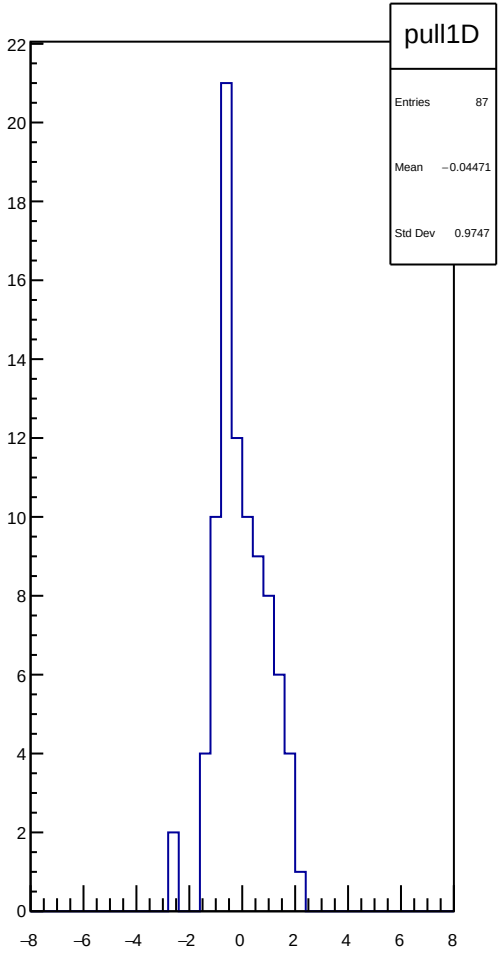

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.077e+05 / 86
p0 33.33 ± 0.02977
220
200
180
160
140
120
100
80
60
40
20

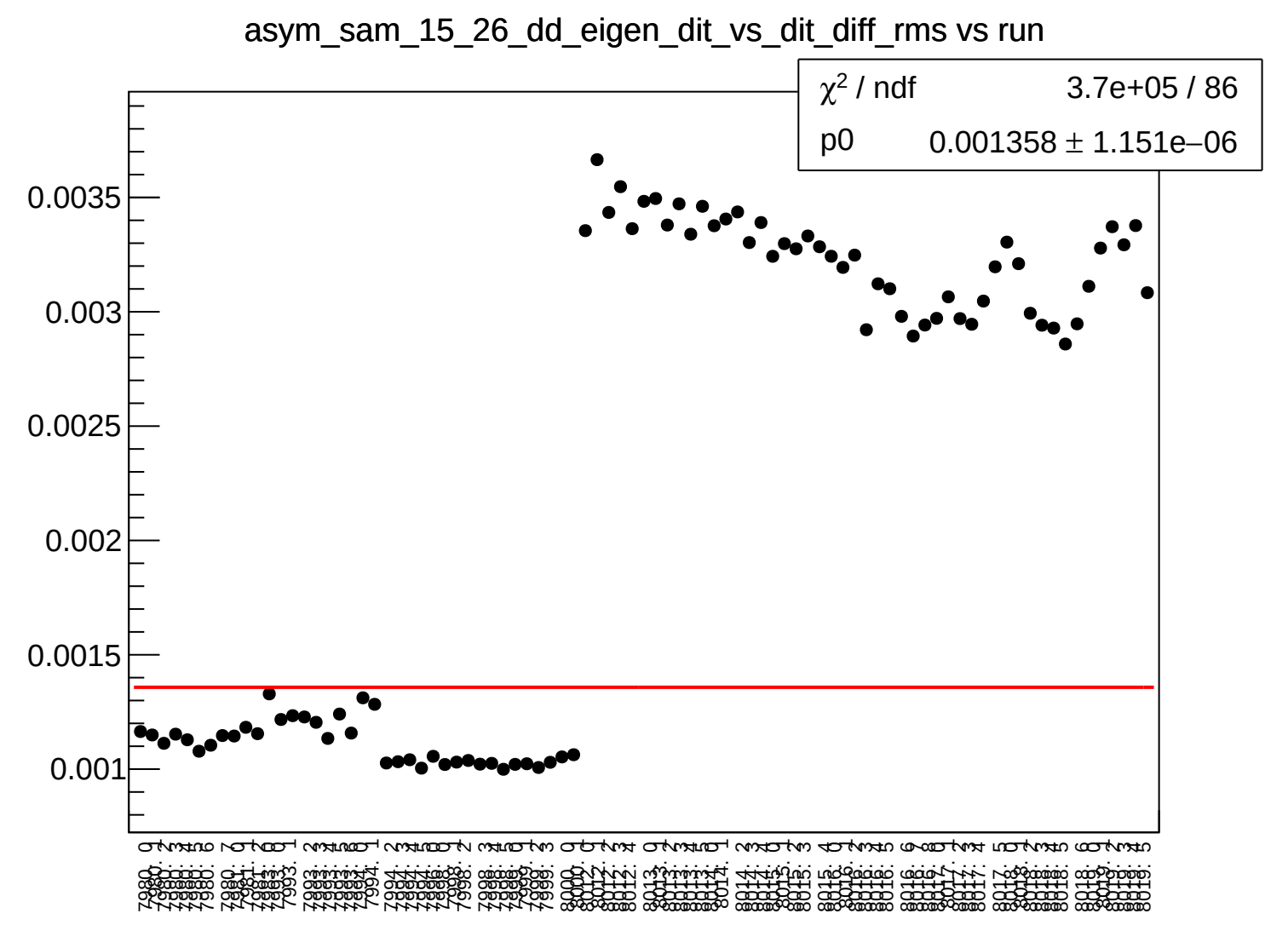

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.6 / 86
p0 −0.0143 ± 0.04211
pull
Entries 87
Mean 23.88
Std Dev 29.08

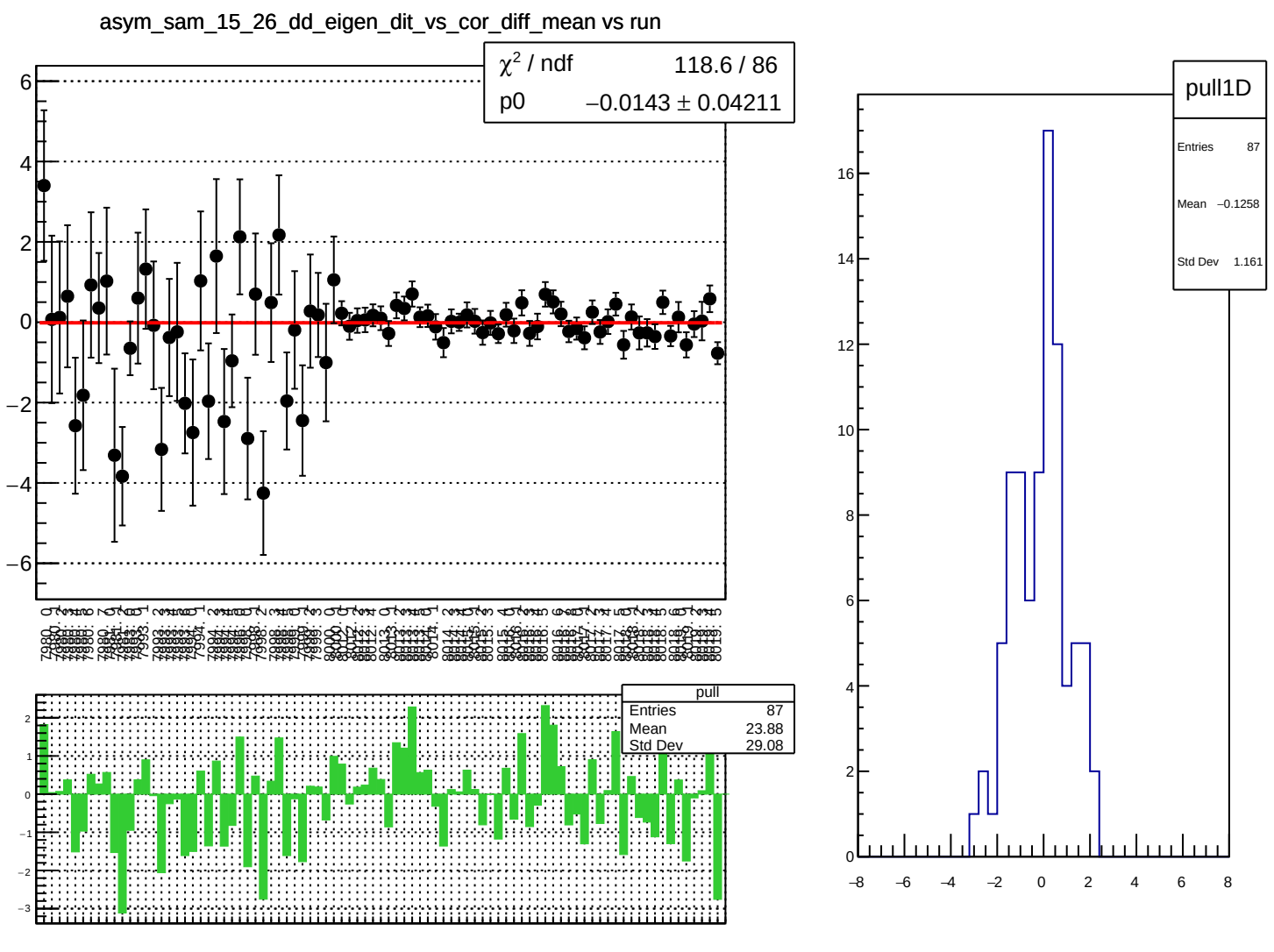

pull1D
Entries 87
Mean −0.1257
Std Dev 1.161

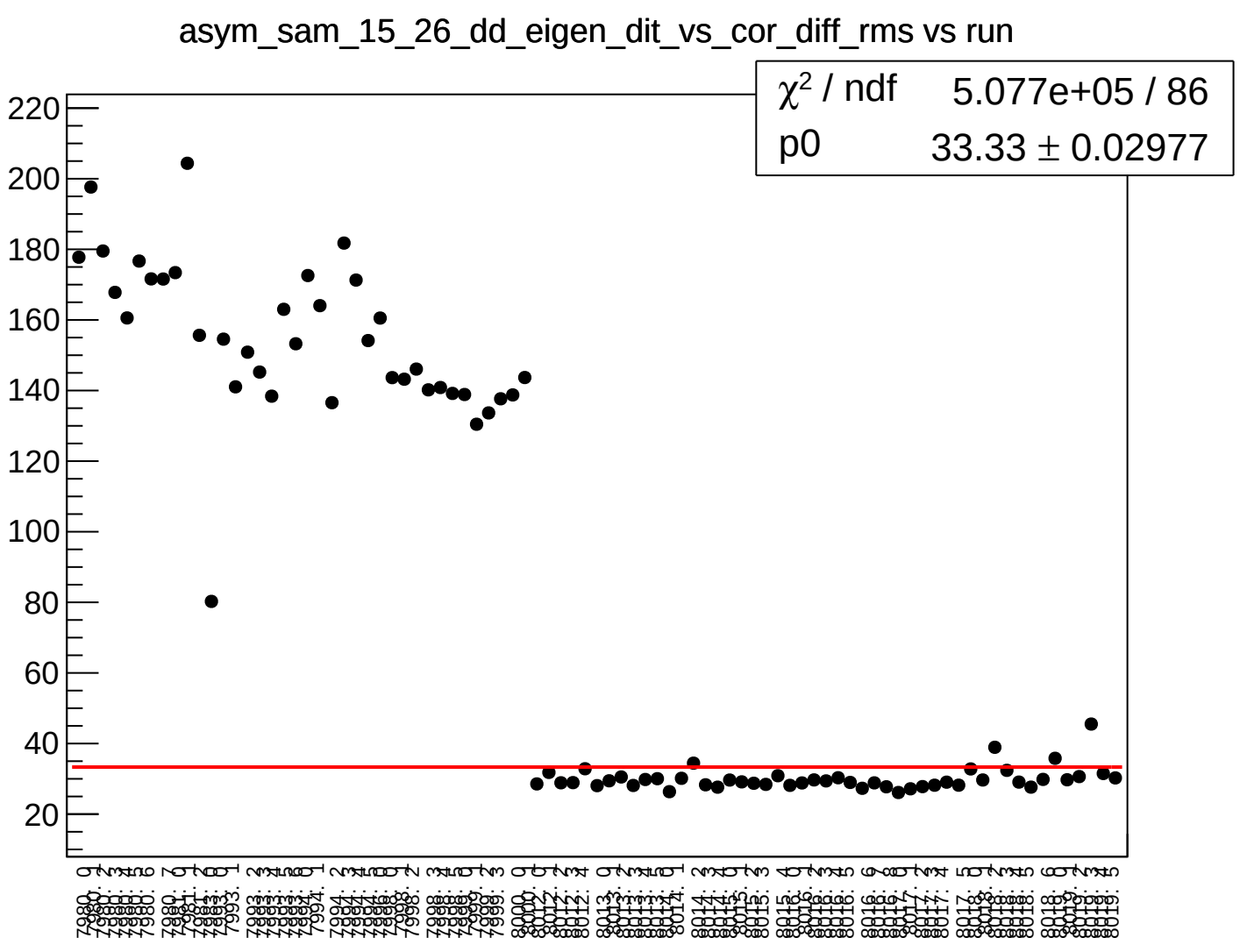

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.077e+05 / 86
p0 33.33 ± 0.02977
220
200
180
160
140
120
100
80
60
40
20

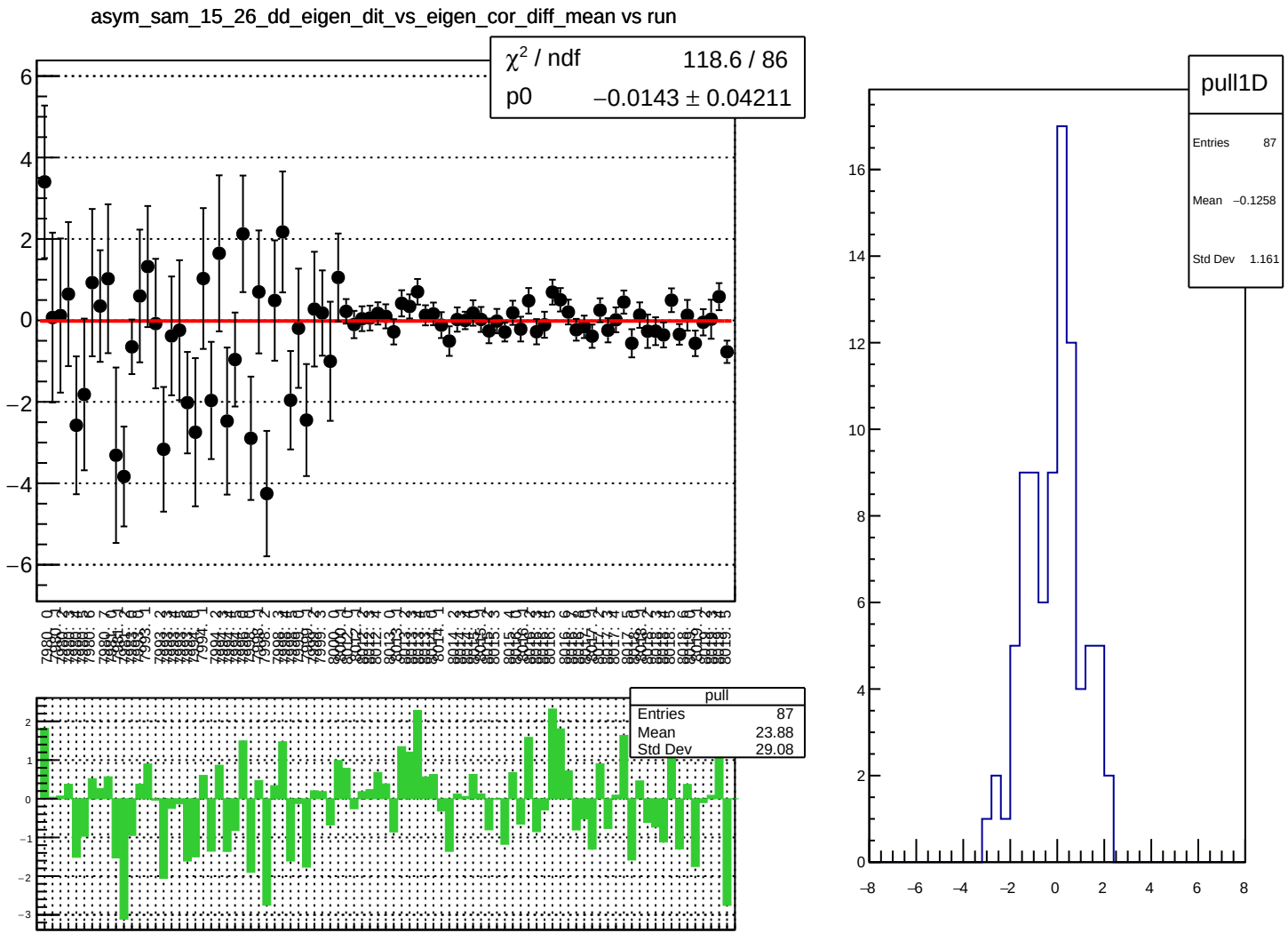

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 82.83 / 86
p0 −2.967e−06 ± 1.628e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean 53.66
Std Dev 34.72
2
1
0
−1
−2

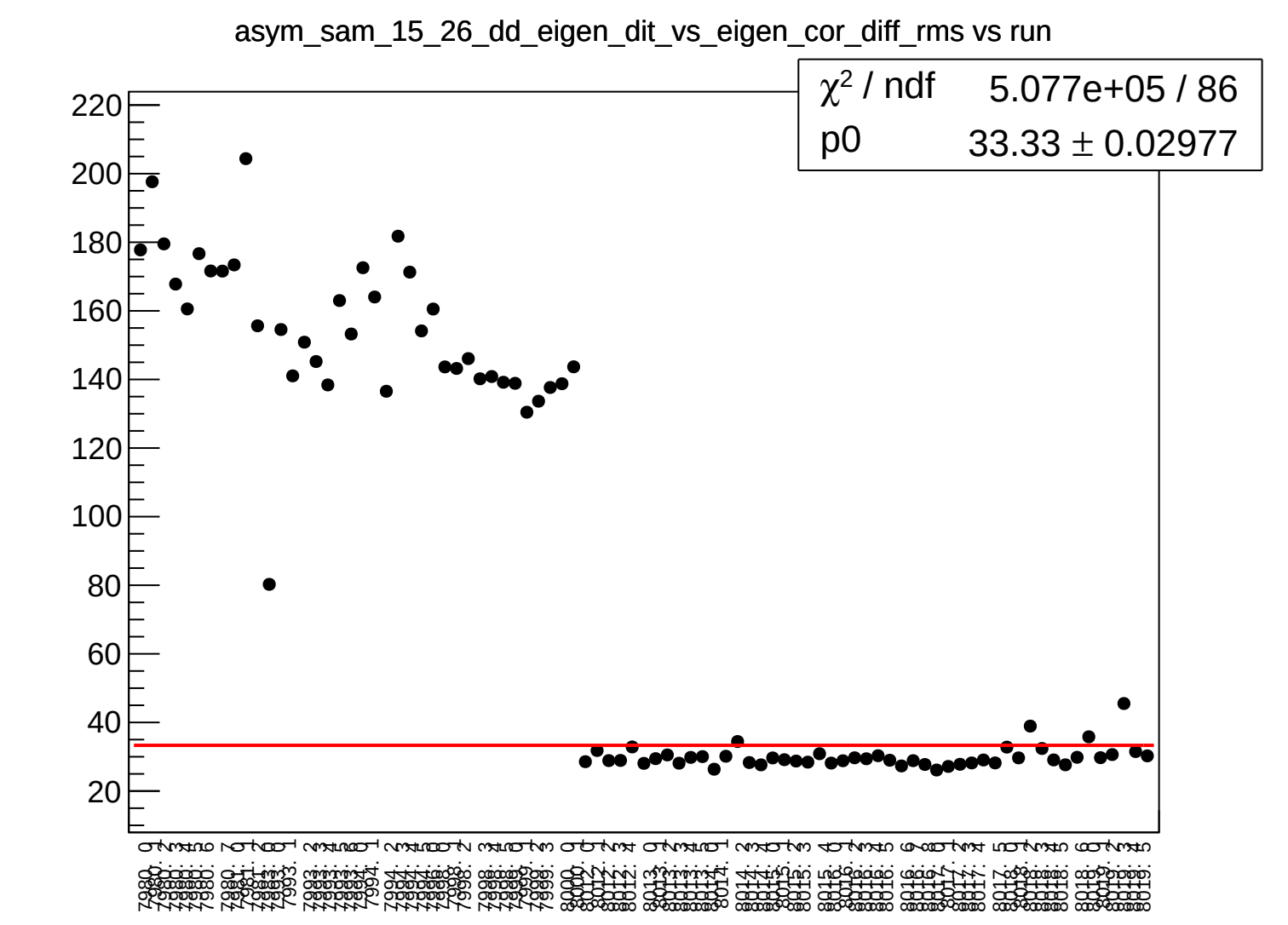

pull1D
Entries 87
Mean −0.04471
Std Dev 0.9747
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

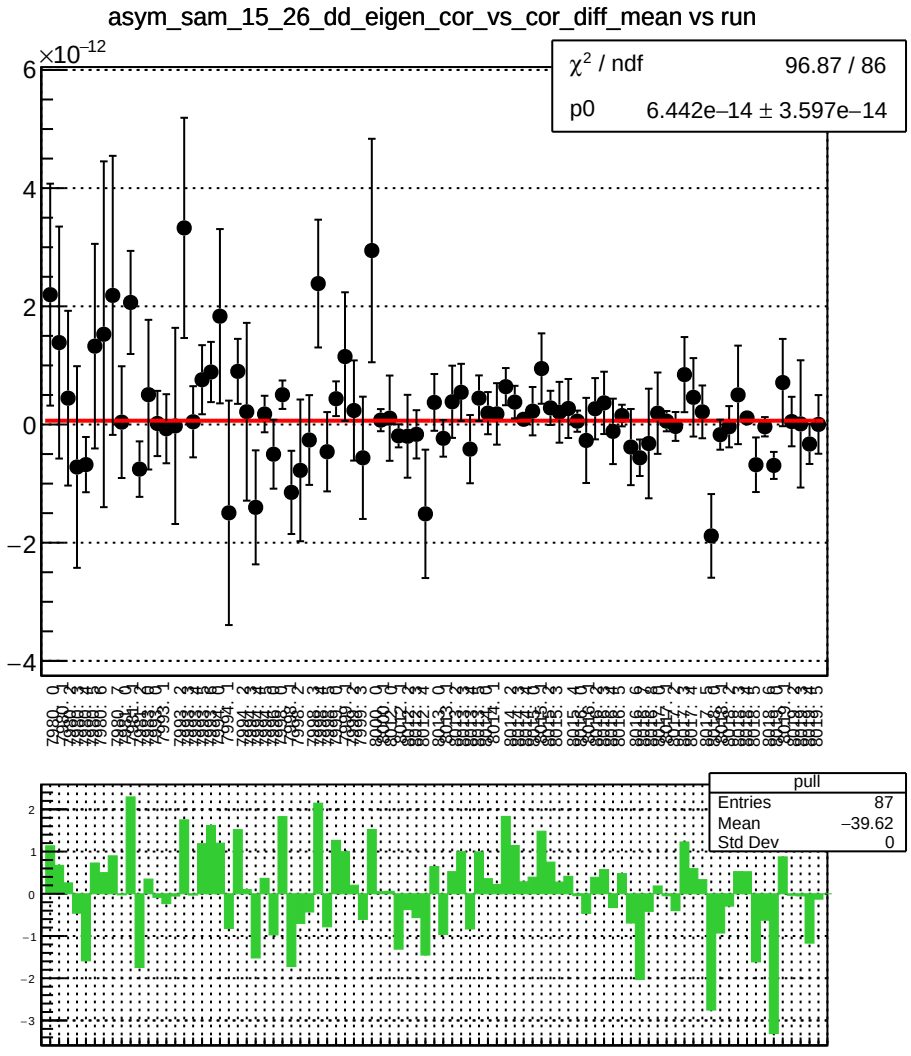

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.7e+05 / 86
p0 0.001358 ± 1.151e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

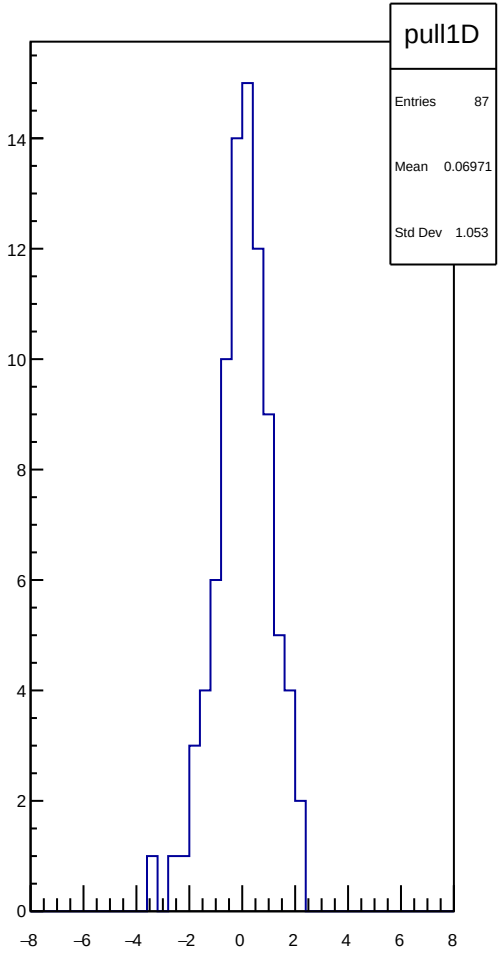

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.6 / 86
p0 −0.0143 ± 0.04211
pull
Entries 87
Mean 23.88
Std Dev 29.08
pull1D
Entries 87
Mean −0.1258
Std Dev 1.161

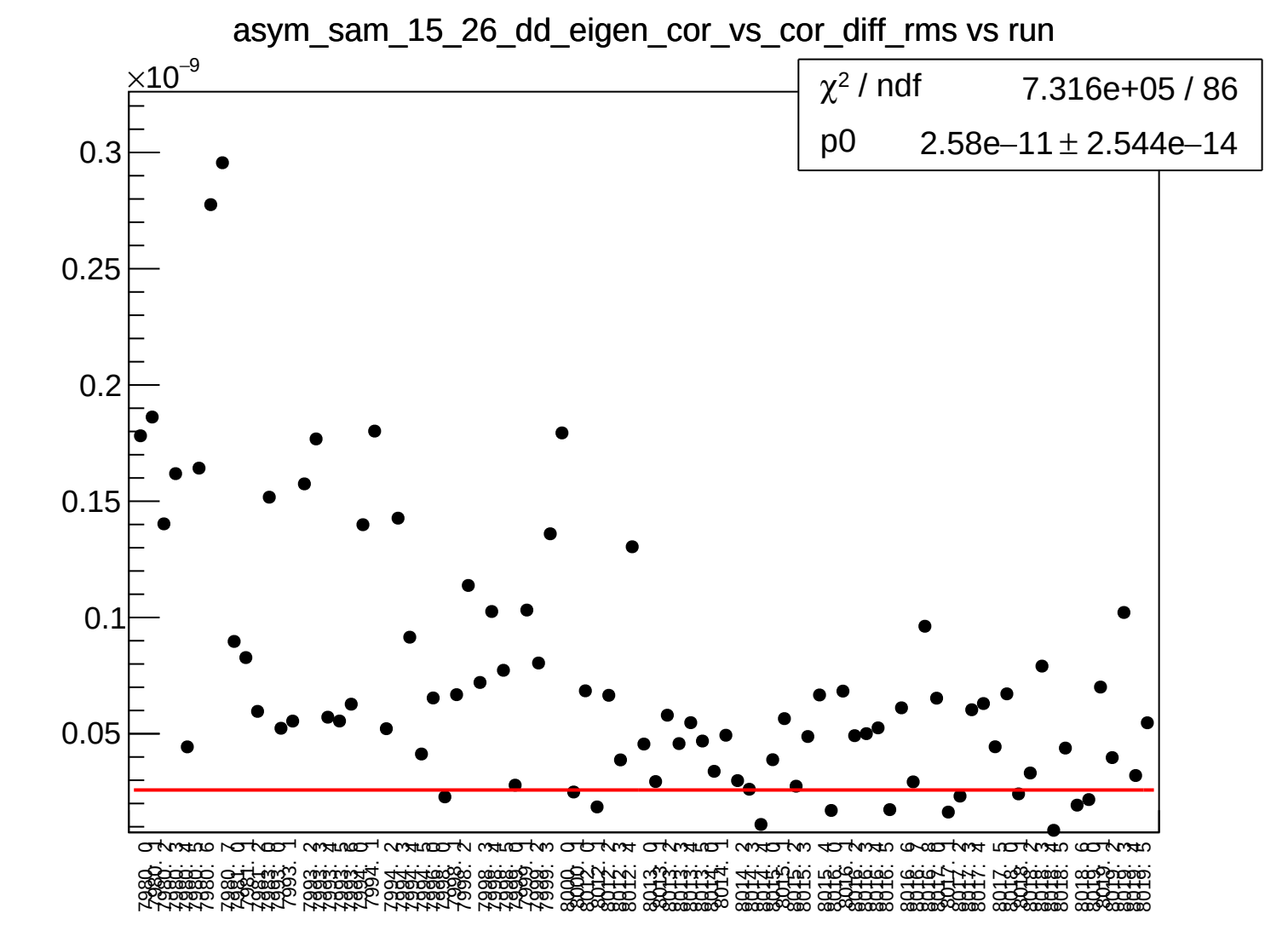

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.077e+05 / 86
p0 33.33 ± 0.02977
220
200
180
160
140
120
100
80
60
40
20

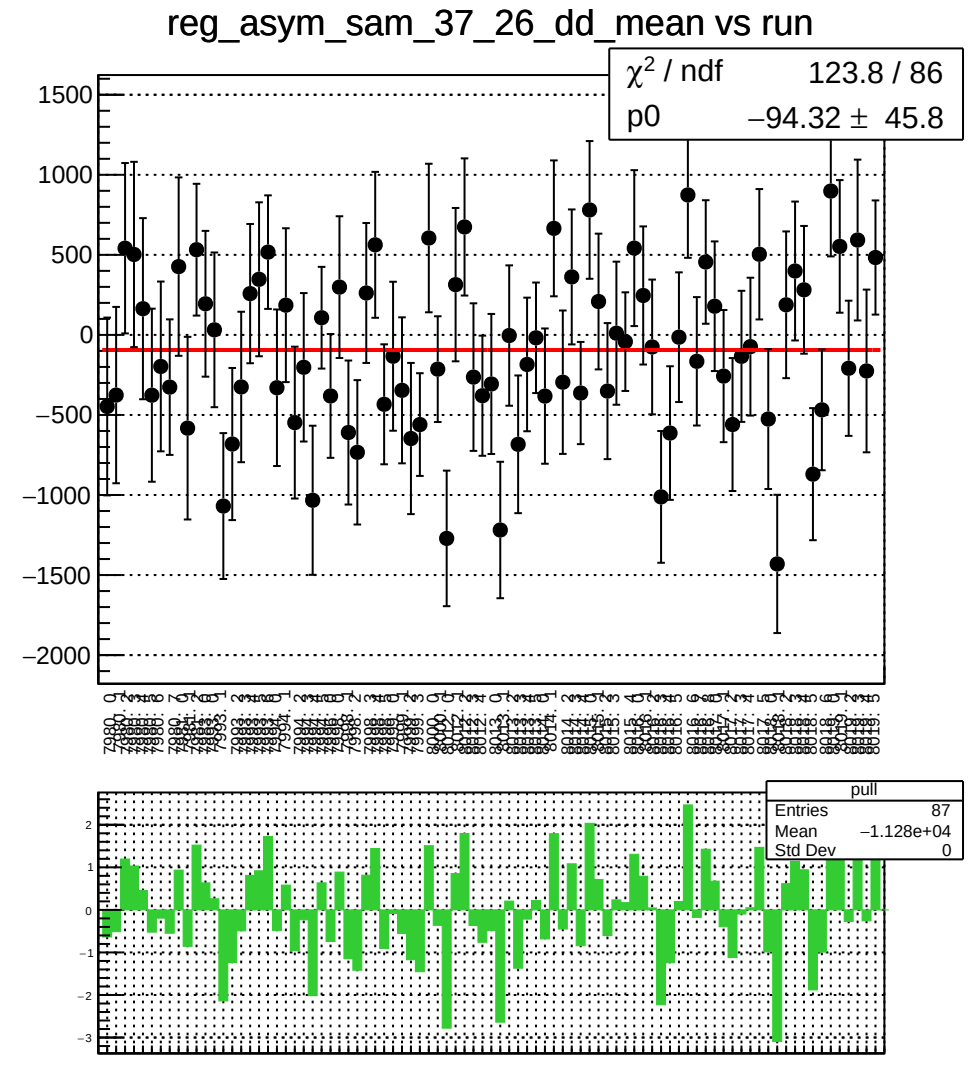

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.6 / 86
p0 −0.0143 ± 0.04211
pull
Entries 87
Mean 23.88
Std Dev 29.08
pull1D
Entries 87
Mean −0.1258
Std Dev 1.161

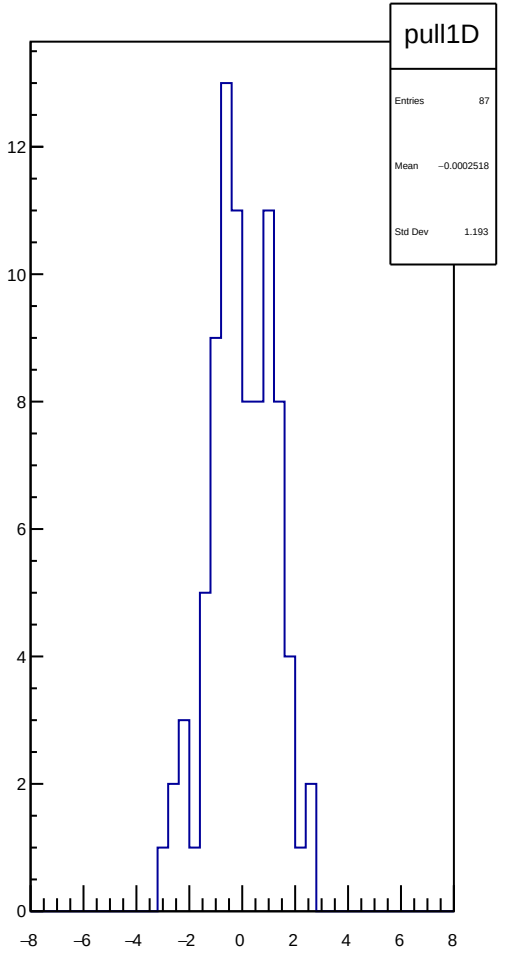

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.077e+05 / 86
p0 33.33 ± 0.02977
220
200
180
160
140
120
100
80
60
40
20

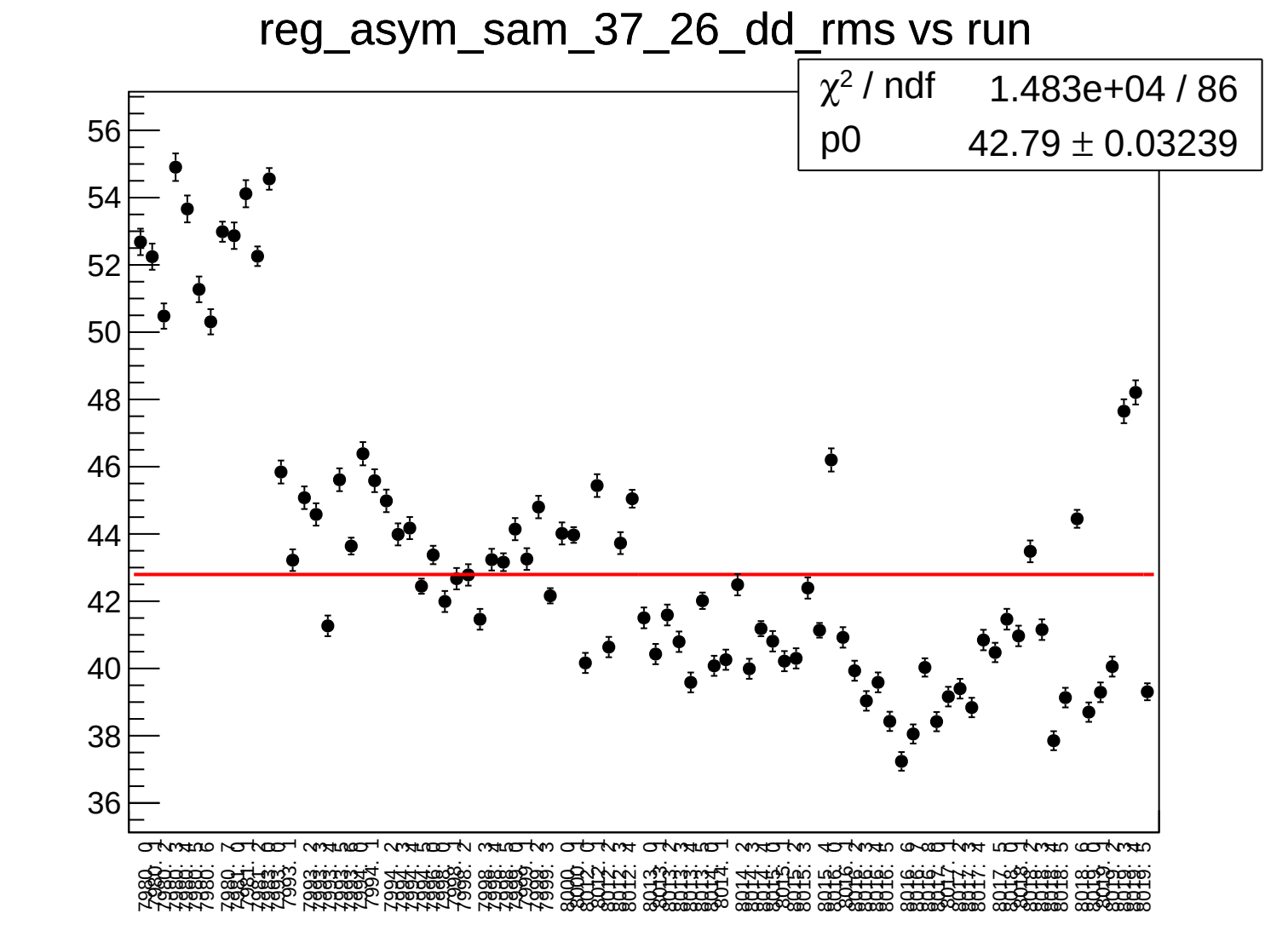

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.87 / 86
p0 6.442e−14 ± 3.597e−14
pull
Entries 87
Mean −39.62
Std Dev 0

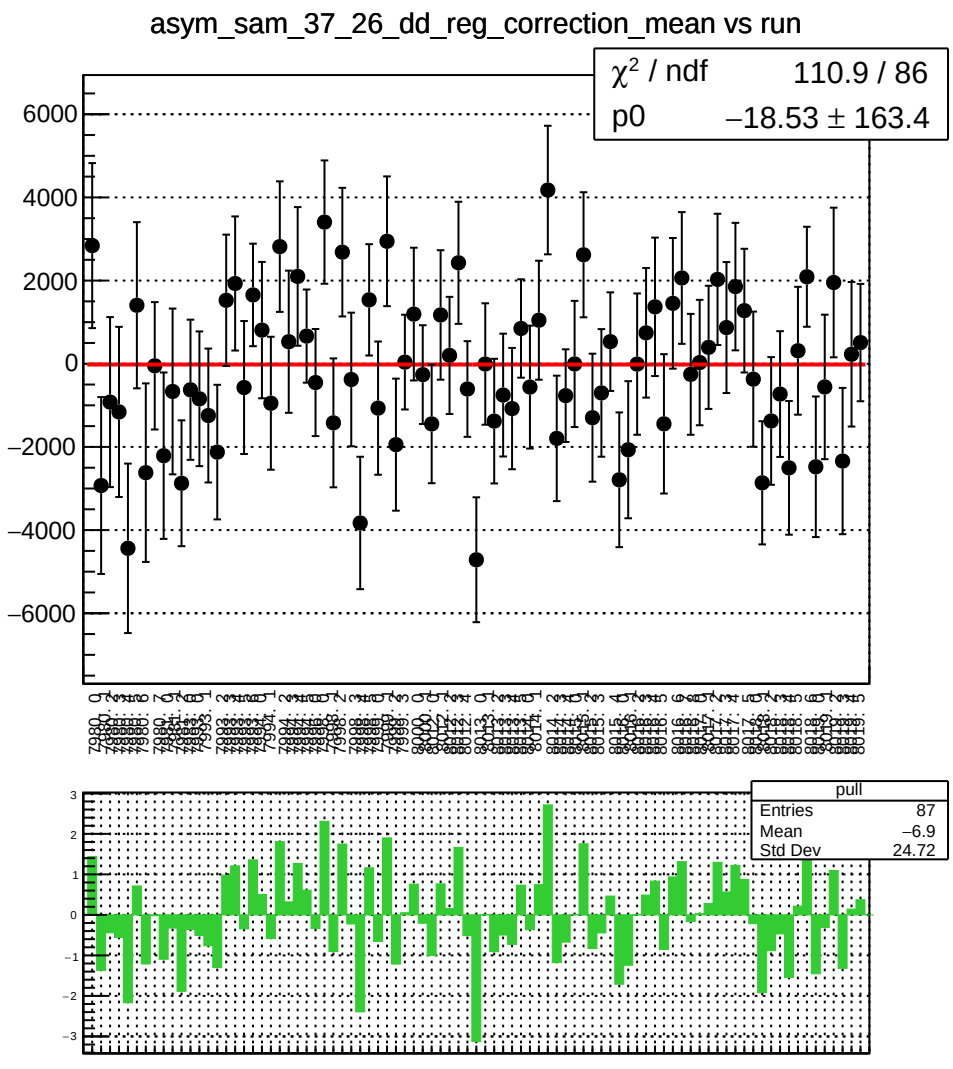

pull1D
Entries 87
Mean 0.06971
Std Dev 1.053

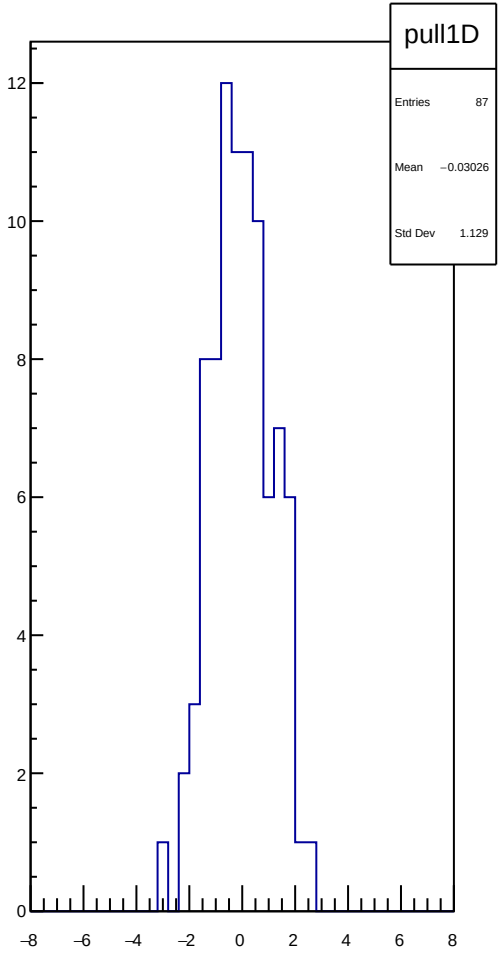

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.316e+05 / 86
p0 2.58e−11 ± 2.544e−14
0.3
0.25
0.2
0.15
0.1
0.05

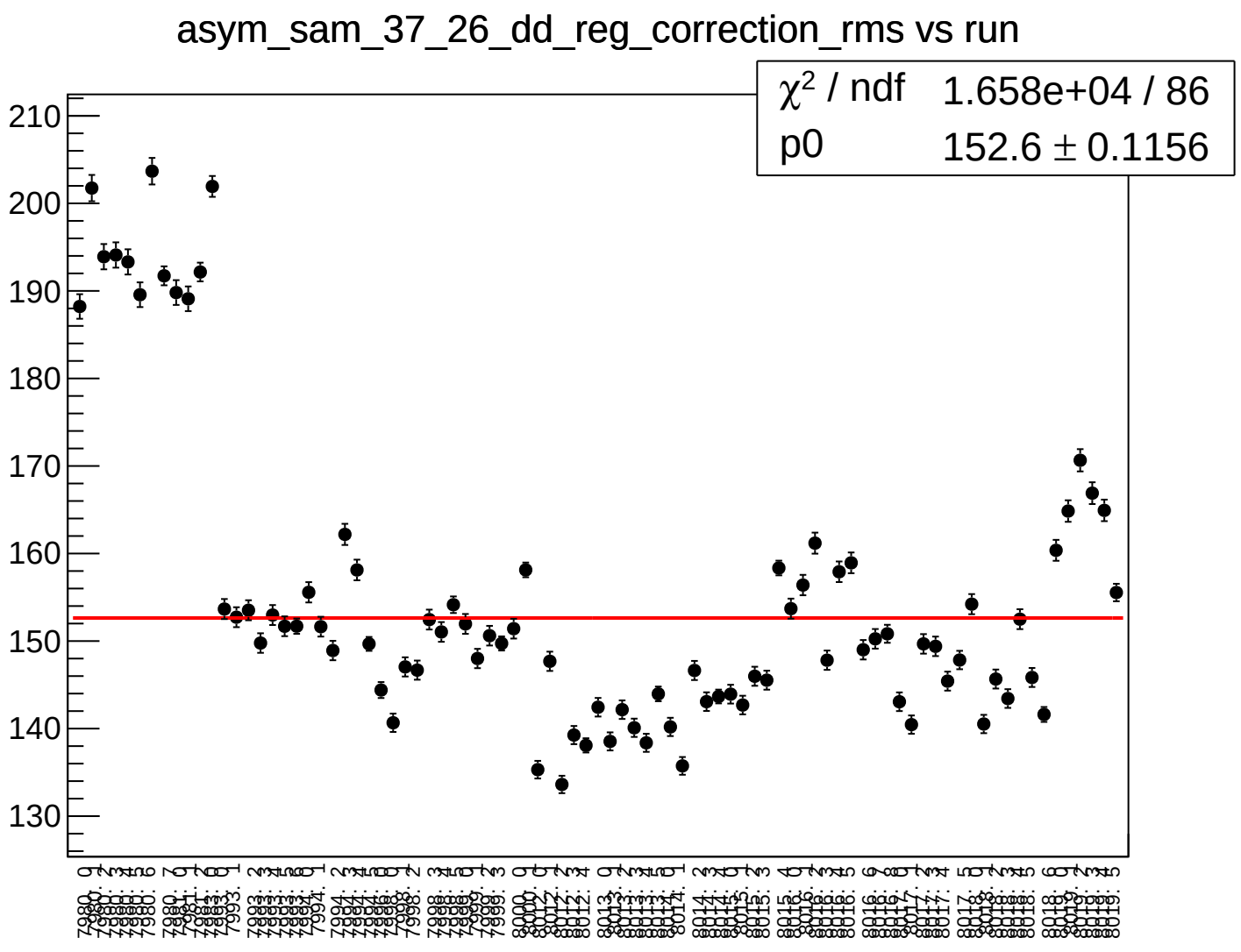

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 123.8 / 86
p0 −94.32 ± 45.8
pull
Entries 87
Mean −1.128e+04
Std Dev 0

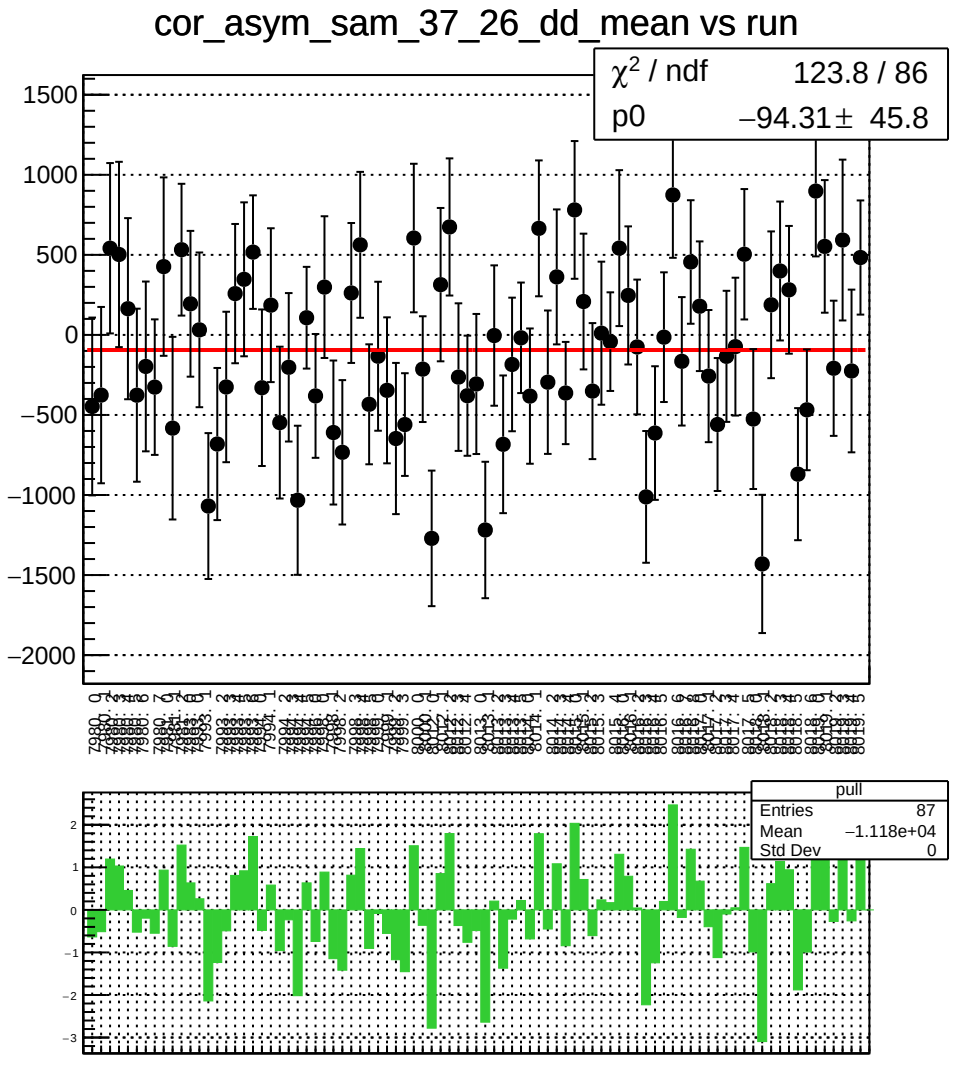

pull1D
Entries 87
Mean −0.0002518
Std Dev 1.193

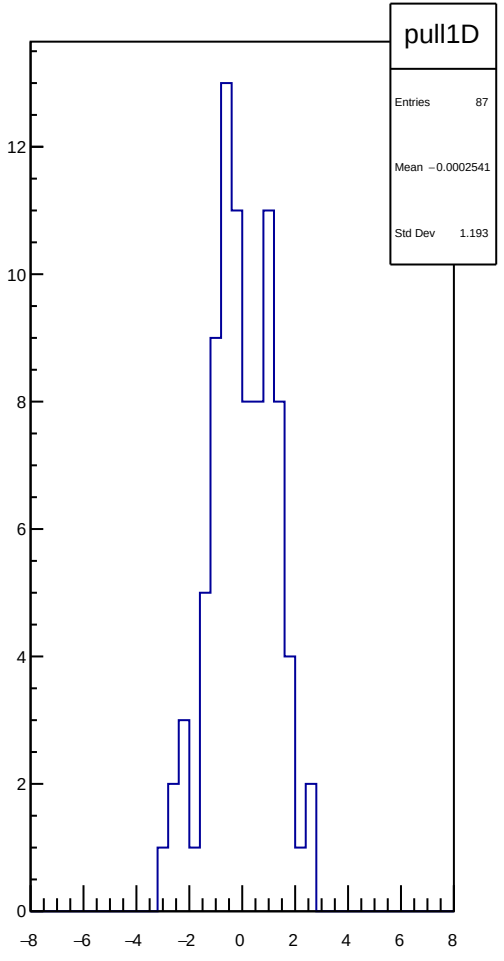

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.483e+04 / 86
p0 42.79 ± 0.03239
56
54
52
50
48
46
44
42
40
38
36

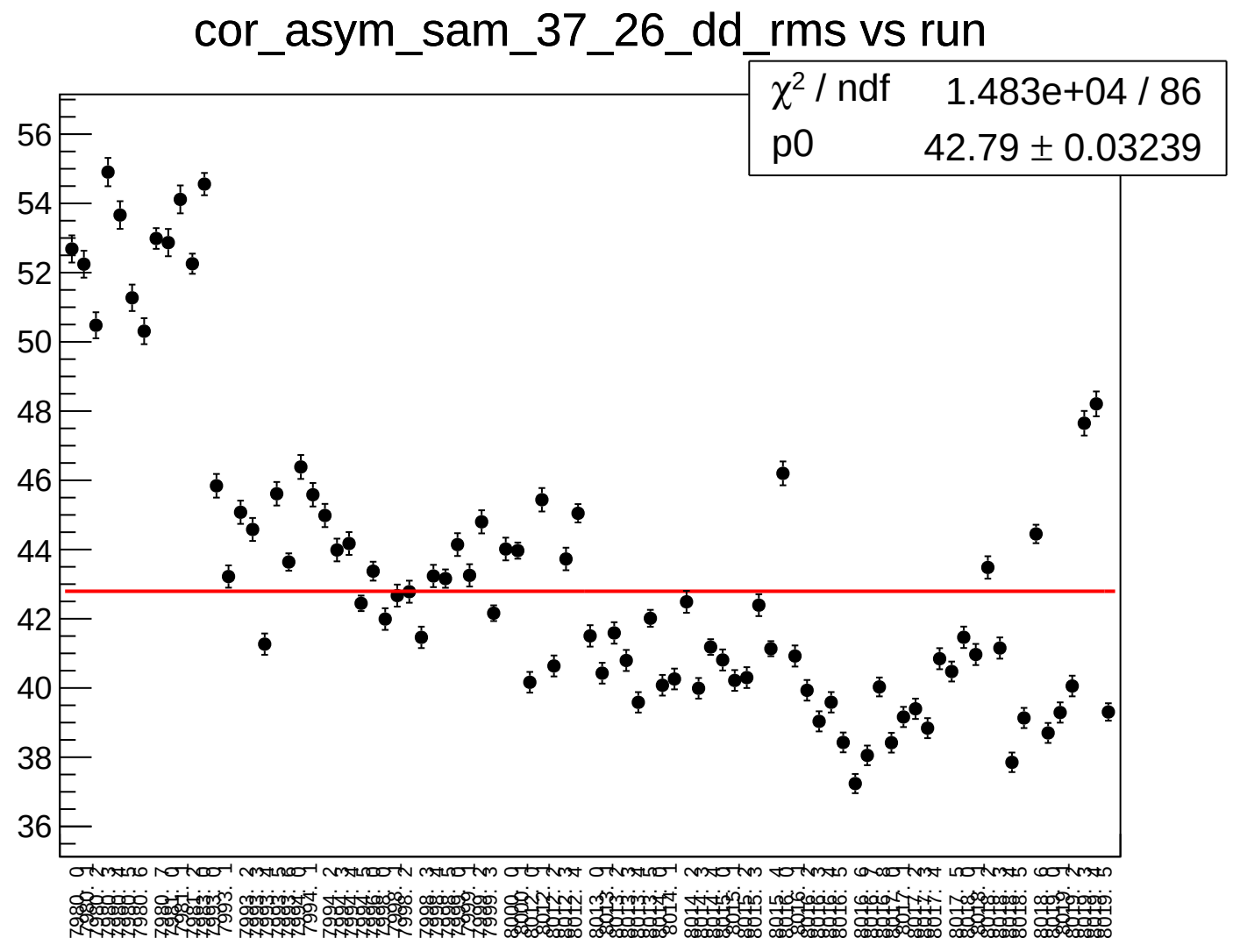

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 110.9 / 86
p0 −18.53 ± 163.4
pull
Entries 87
Mean −6.9
Std Dev 24.72

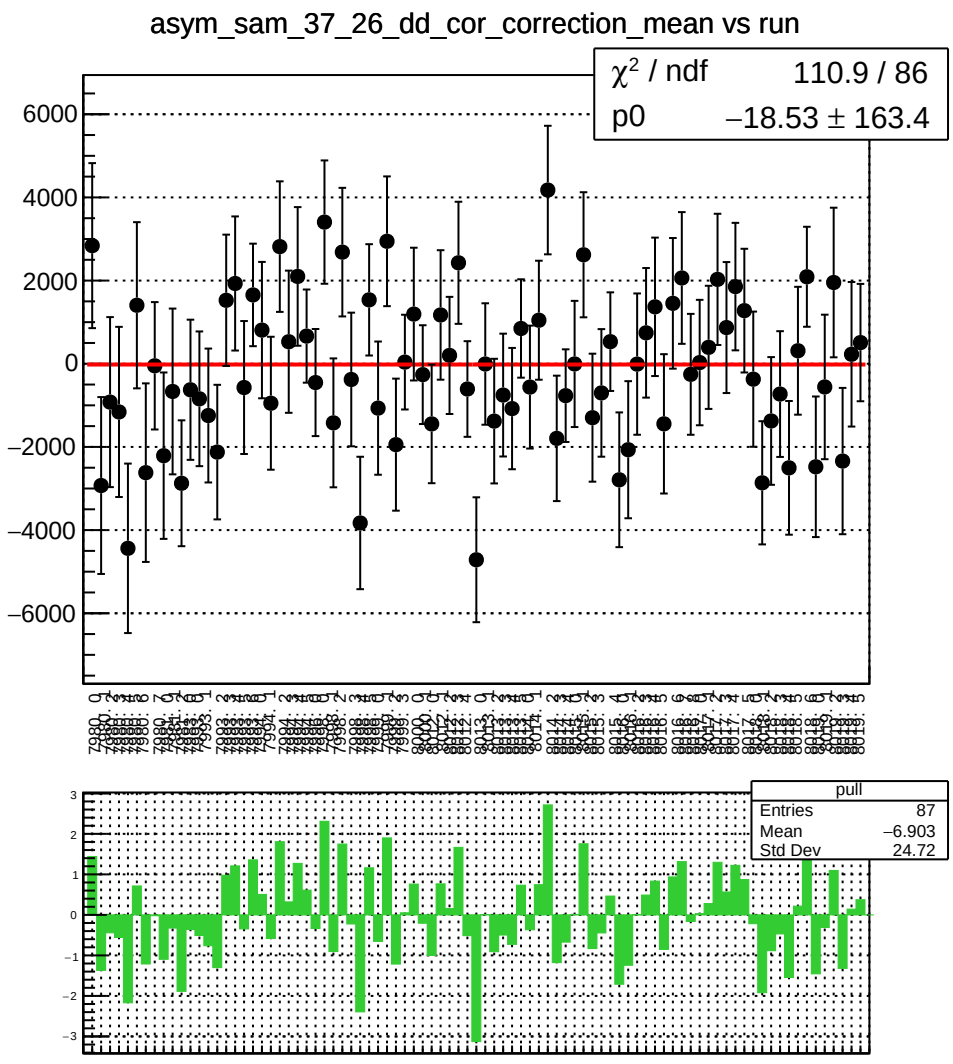

pull1D
Entries 87
Mean −0.03026
Std Dev 1.129

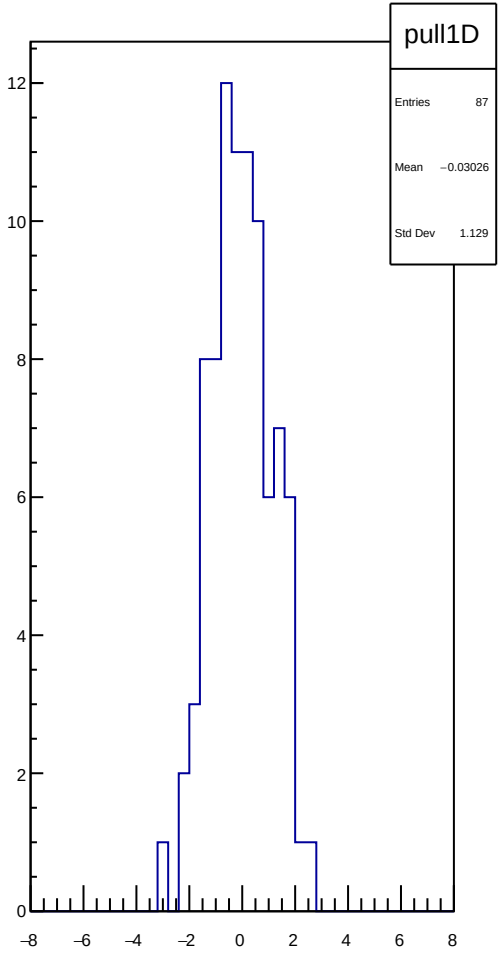

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1.658e+04 / 86
p0 152.6 ± 0.1156
210
200
190
180
170
160
150
140
130

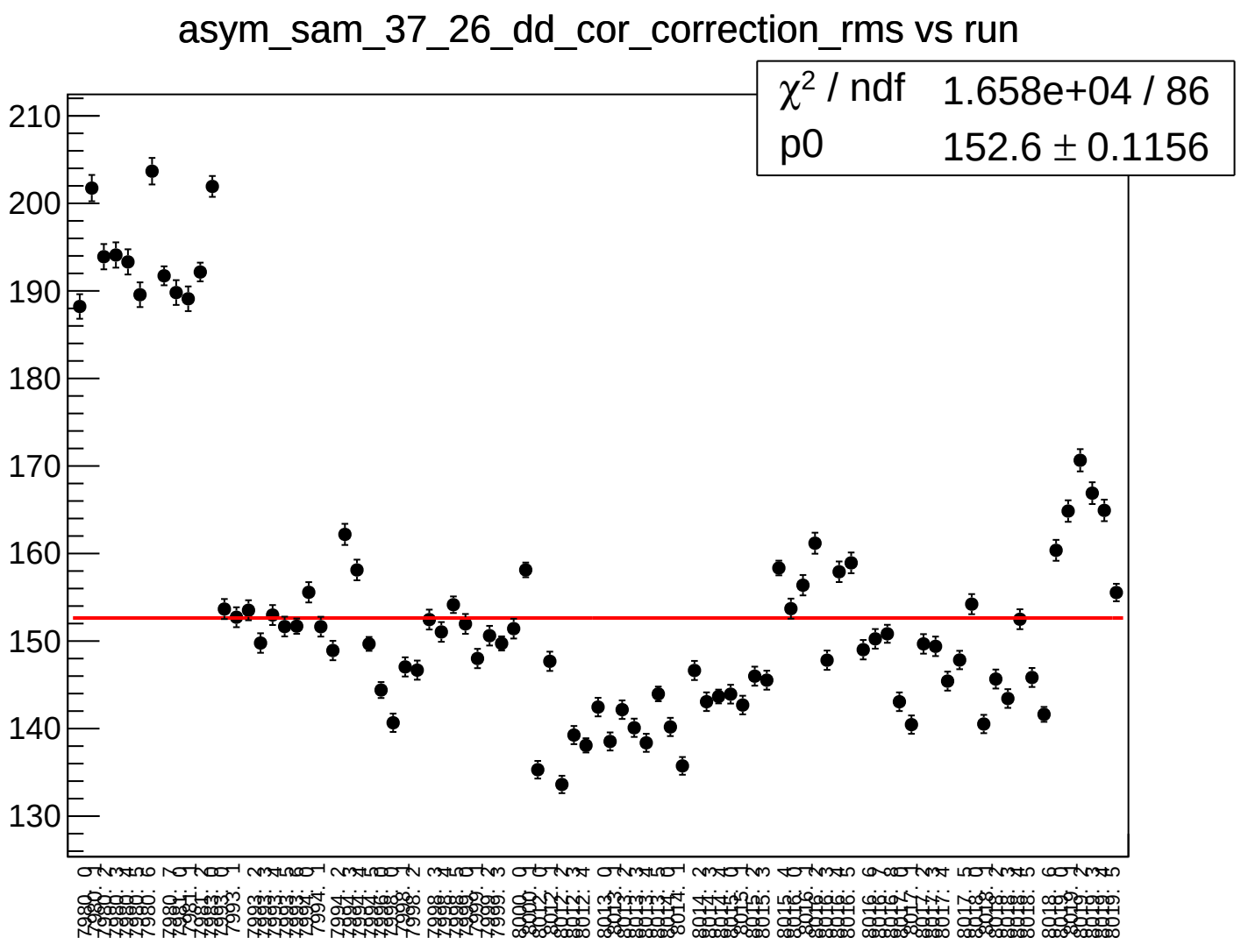

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 123.8 / 86
p0 −94.31 ± 45.8
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 87
Mean −1.118e+04
Std Dev 0
2
1
0
−1
−2
−3

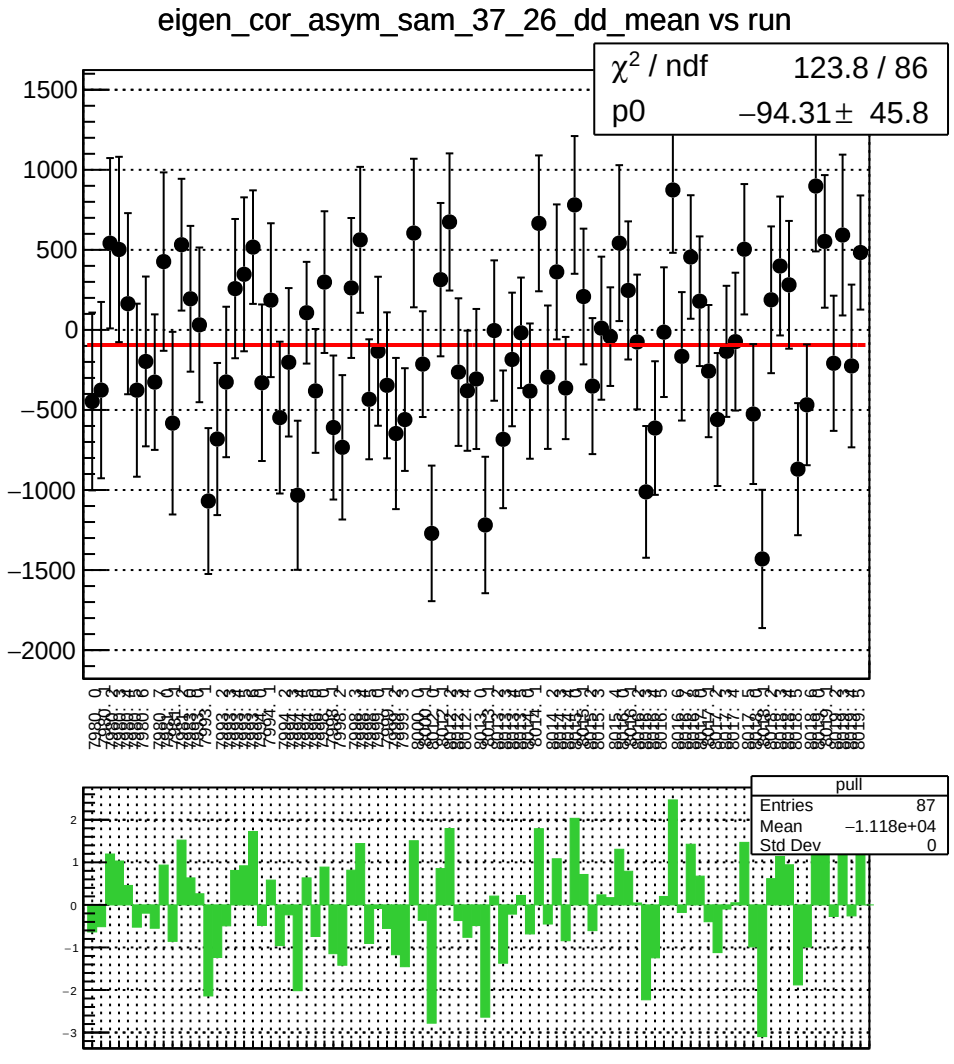

pull1D
Entries 87
Mean −0.0002541
Std Dev 1.193
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

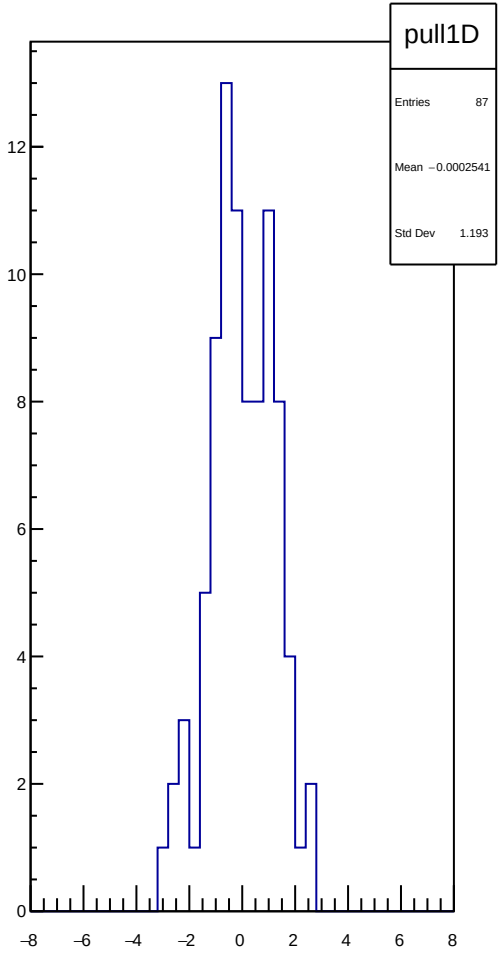

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.483e+04 / 86
p0 42.79 ± 0.03239
56
54
52
50
48
46
44
42
40
38
36

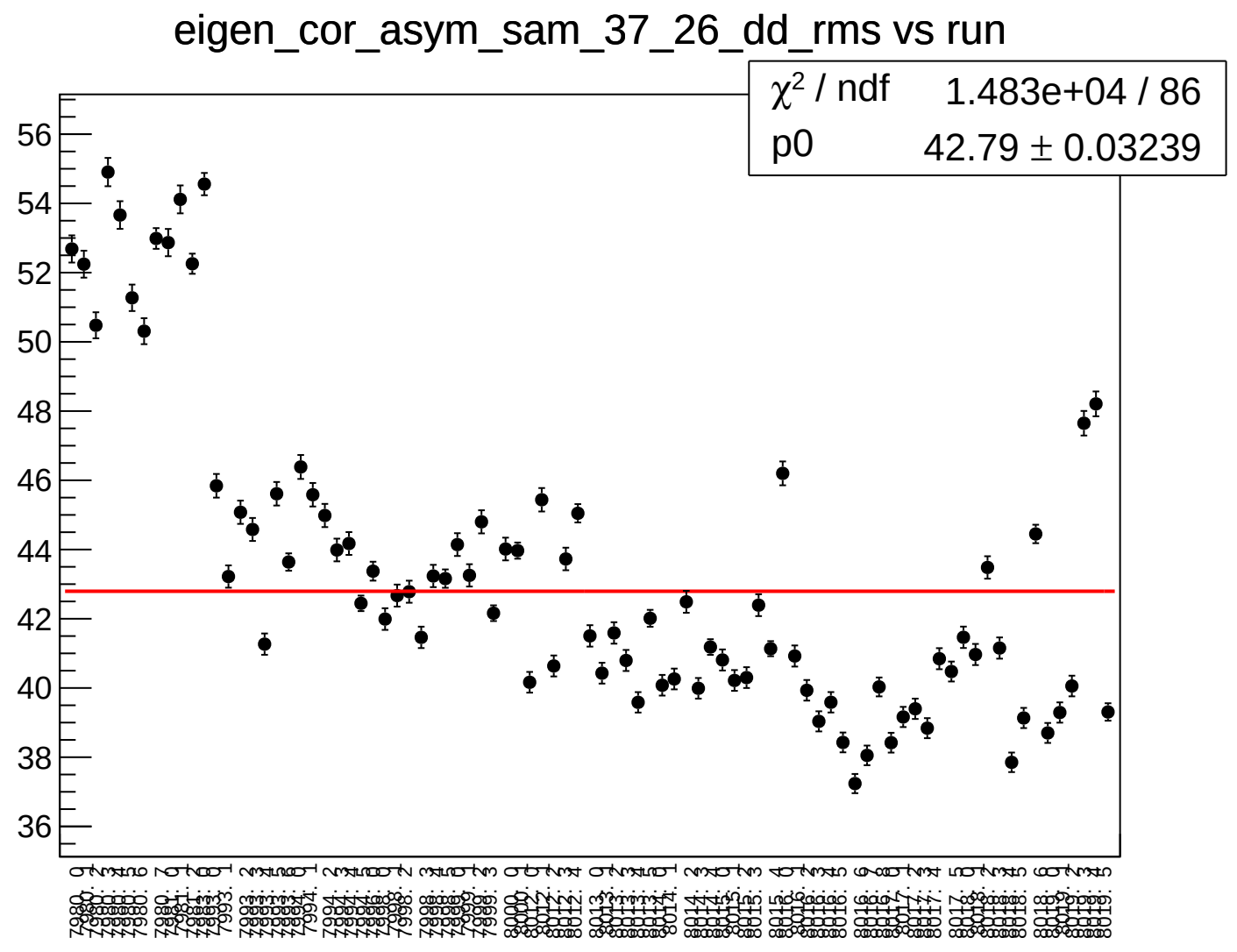

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 110.9 / 86
p0 −18.53 ± 163.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −6.903
Std Dev 24.72
3
2
1
0
−1
−2
−3

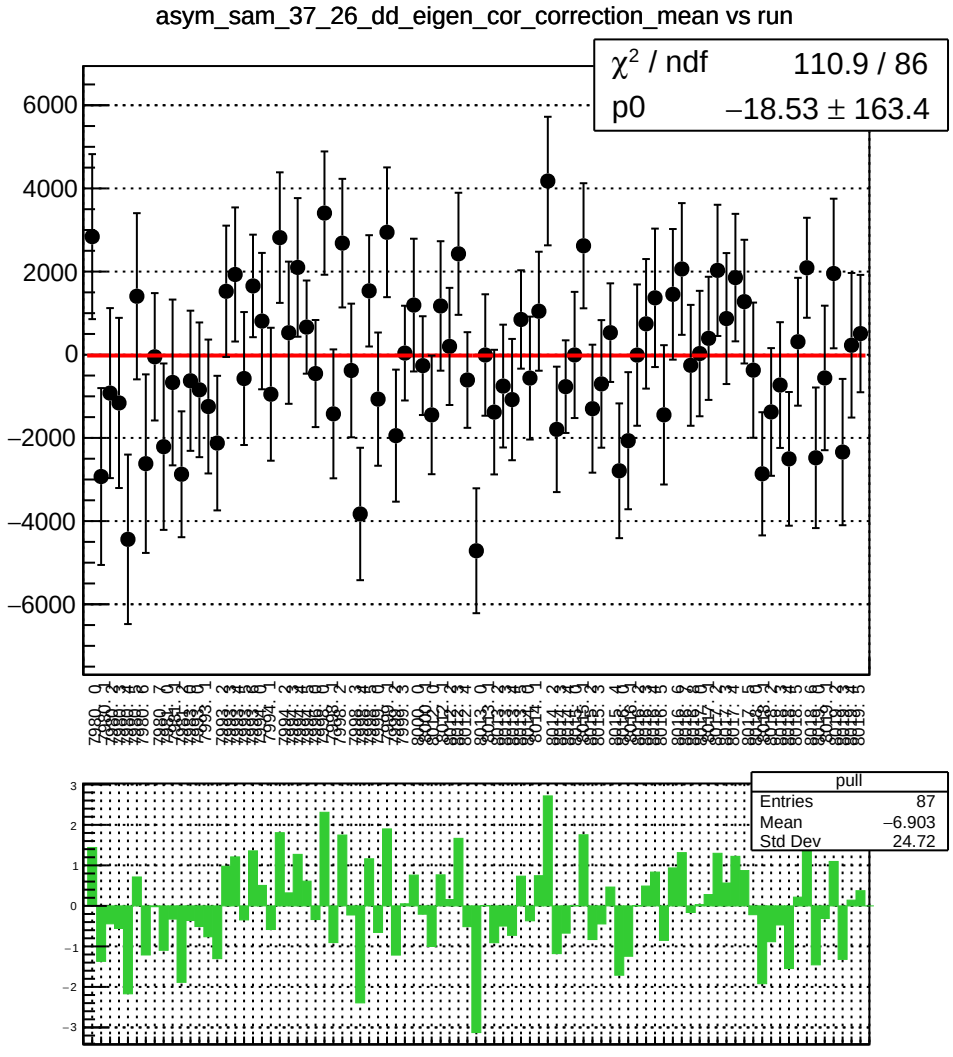

pull1D
Entries 87
Mean −0.03026
Std Dev 1.129
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

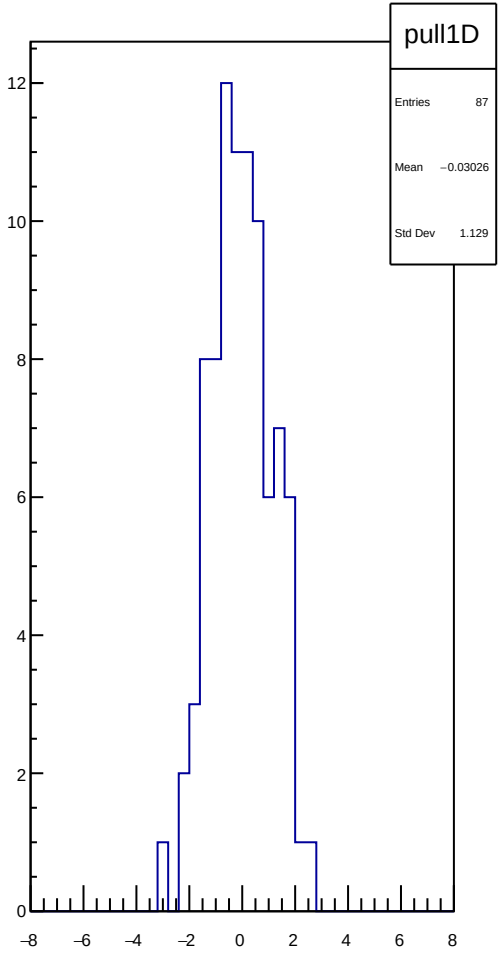

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 1.658e+04 / 86
p0 152.6 ± 0.1156
210
200
190
180
170
160
150
140
130

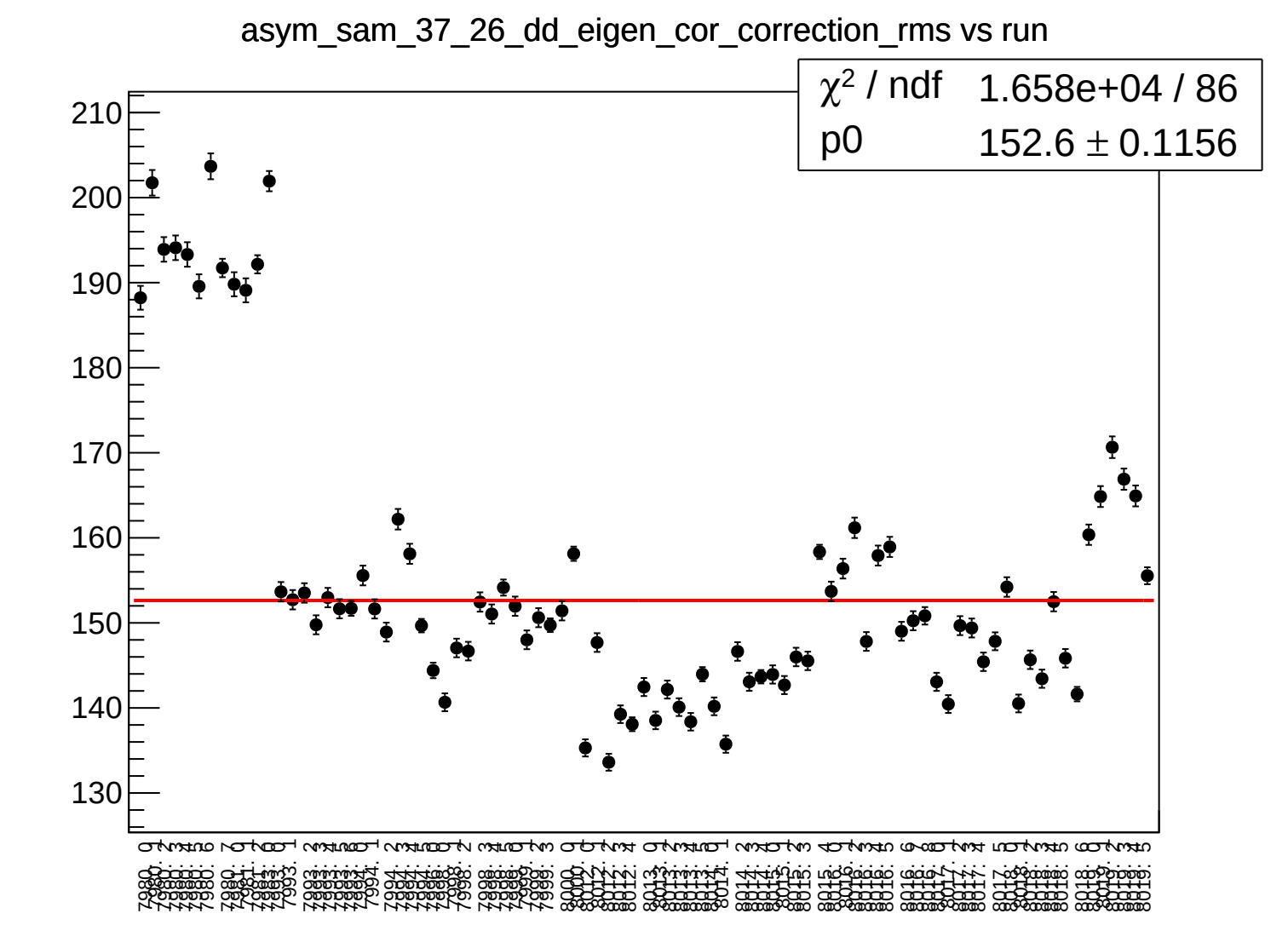

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 123.8 / 86
p0 −94.31 ± 45.8
pull
Entries 87
Mean −1.118e+04
Std Dev 0

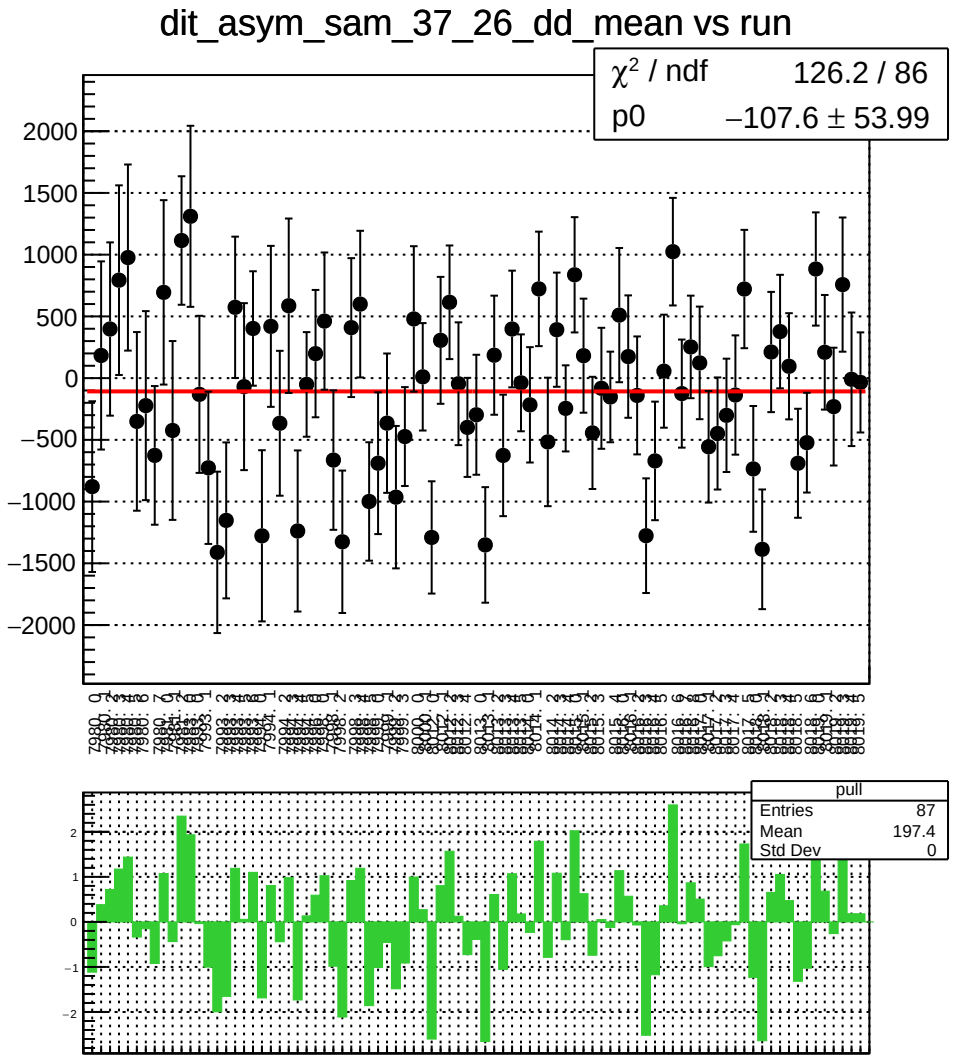

pull1D
Entries 87
Mean −0.0002541
Std Dev 1.193

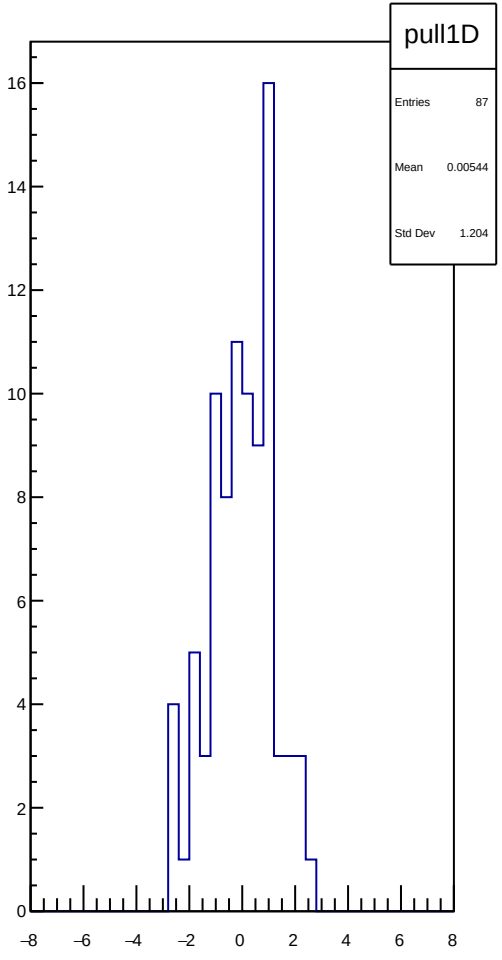

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.483e+04 / 86
p0 42.79 ± 0.03239
56
54
52
50
48
46
44
42
40
38
36

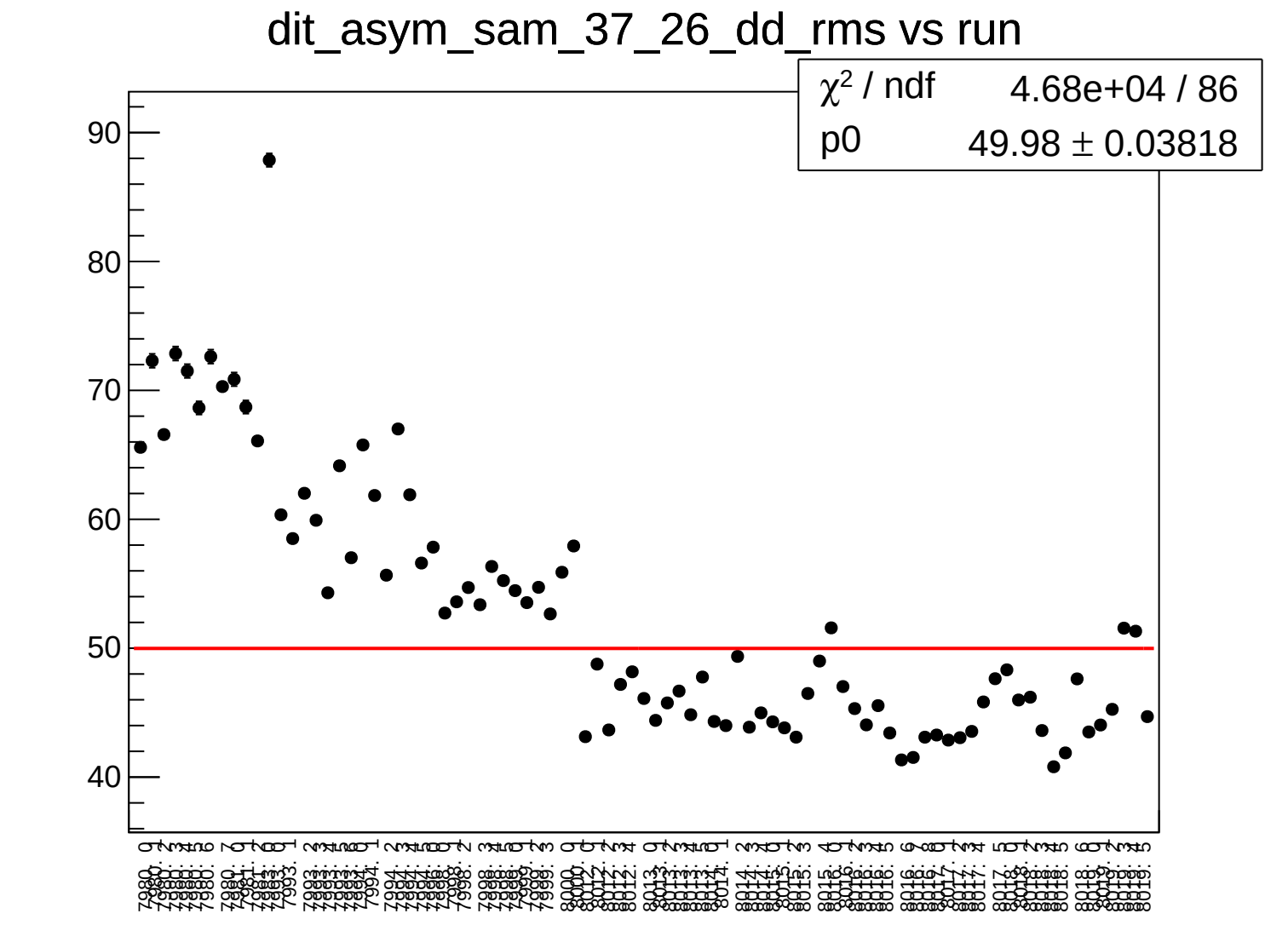

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 110.9 / 86
p0 −18.53 ± 163.4
pull
Entries 87
Mean −6.903
Std Dev 24.72

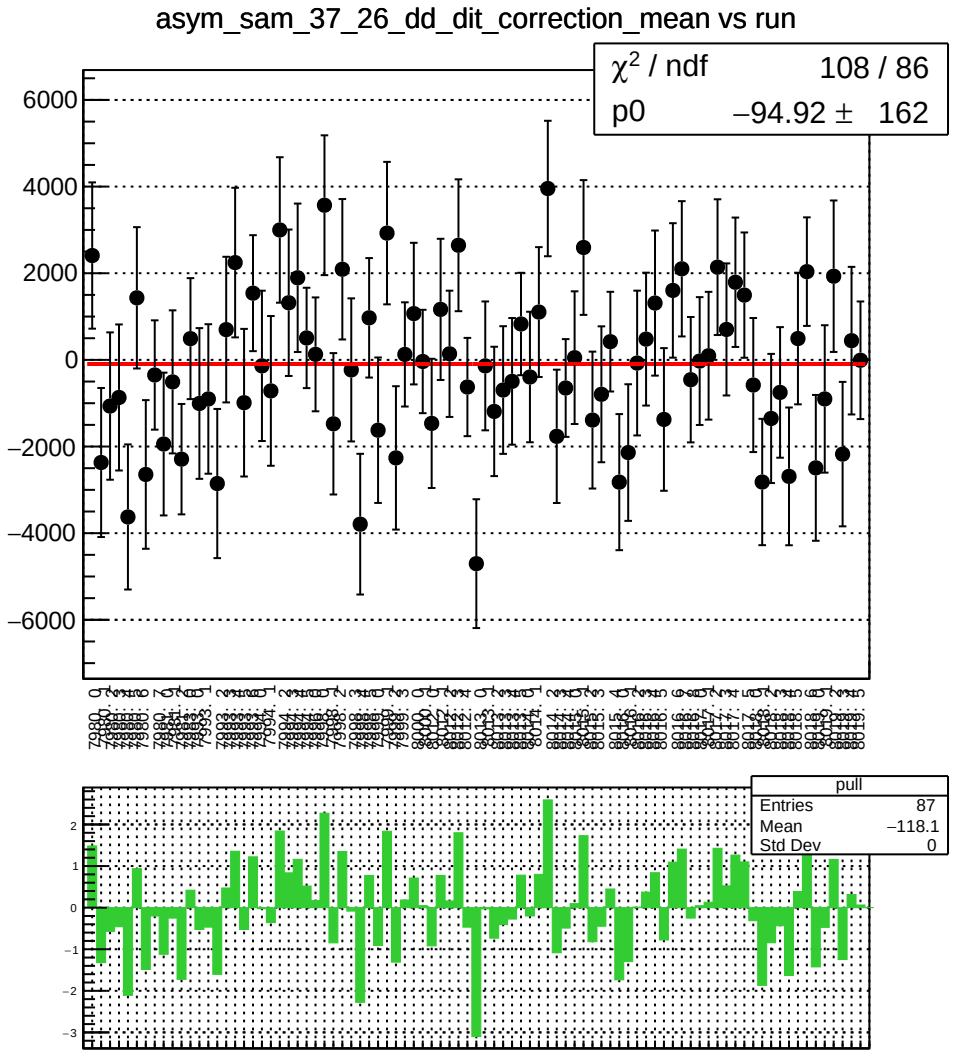

pull1D
Entries 87
Mean −0.03026
Std Dev 1.129

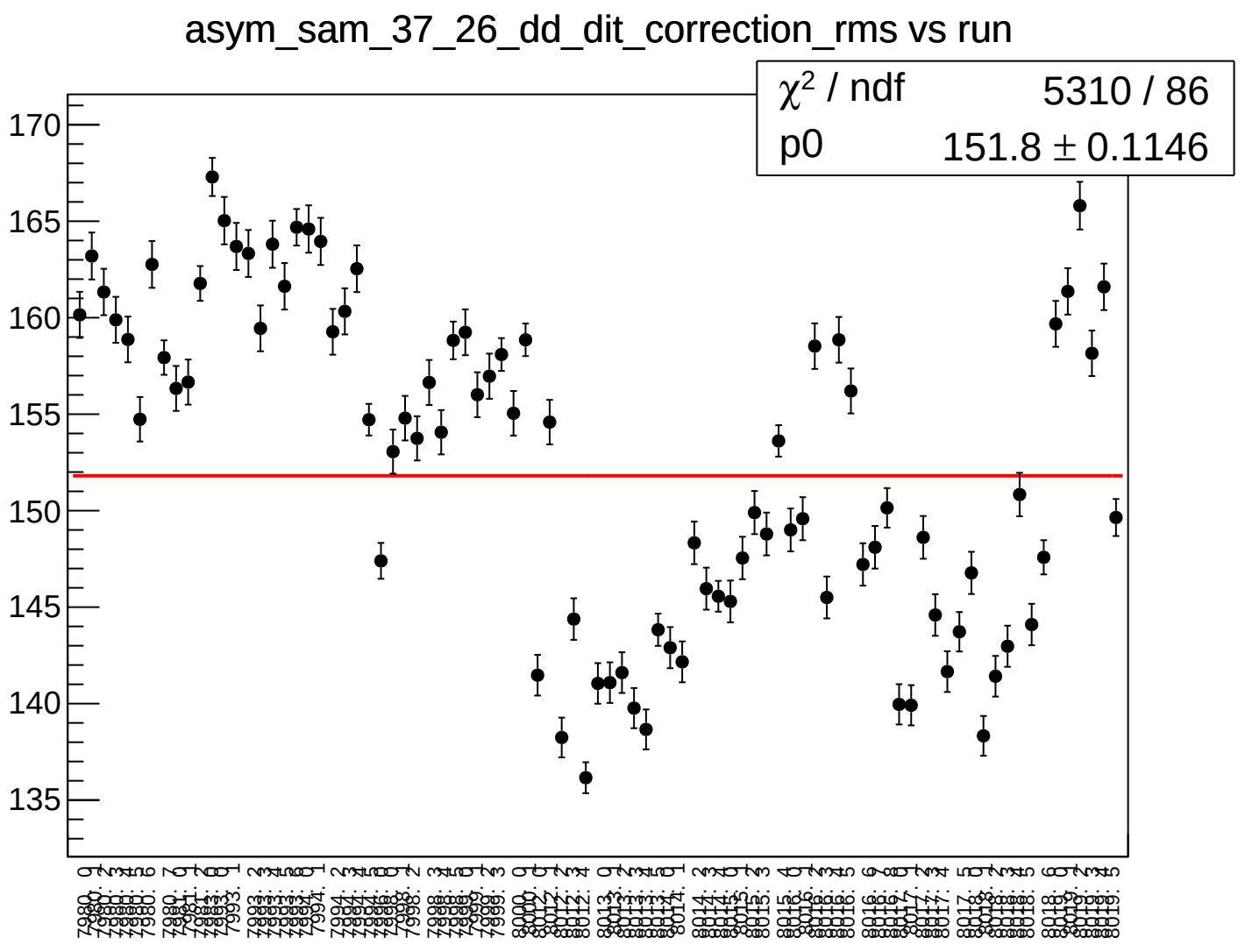

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.658e+04 / 86
p0 152.6 ± 0.1156
210
200
190
180
170
160
150
140
130

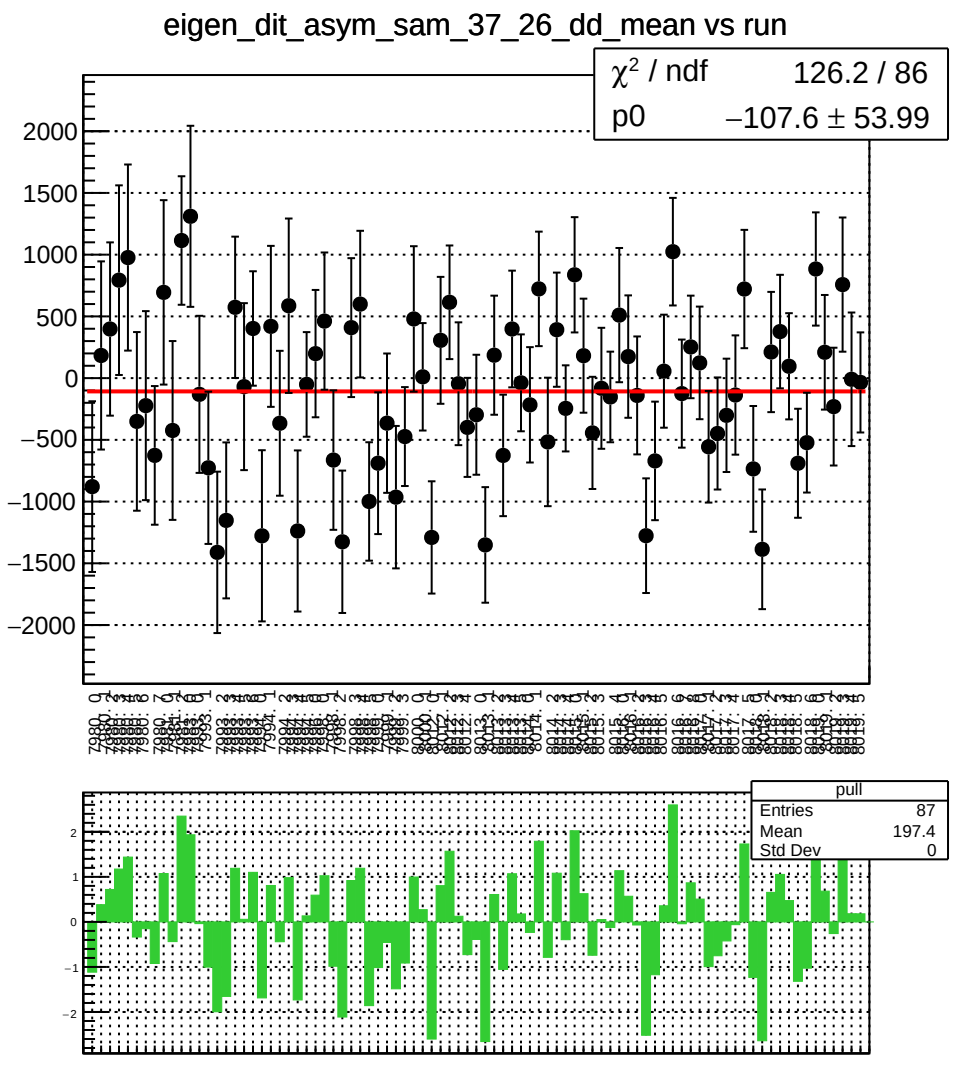

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 126.2 / 86
p0 −107.6 ± 53.99
pull
Entries 87
Mean 197.4
Std Dev 0

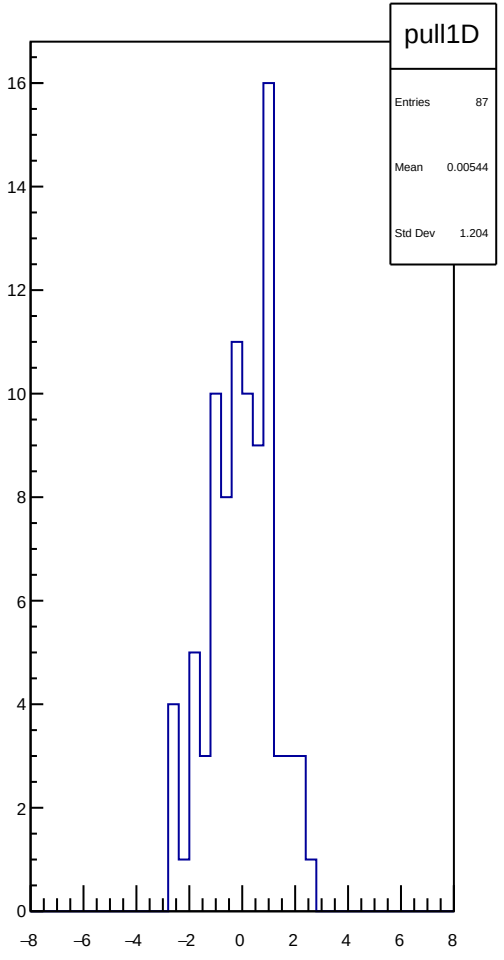

pull1D
Entries 87
Mean 0.00544
Std Dev 1.204

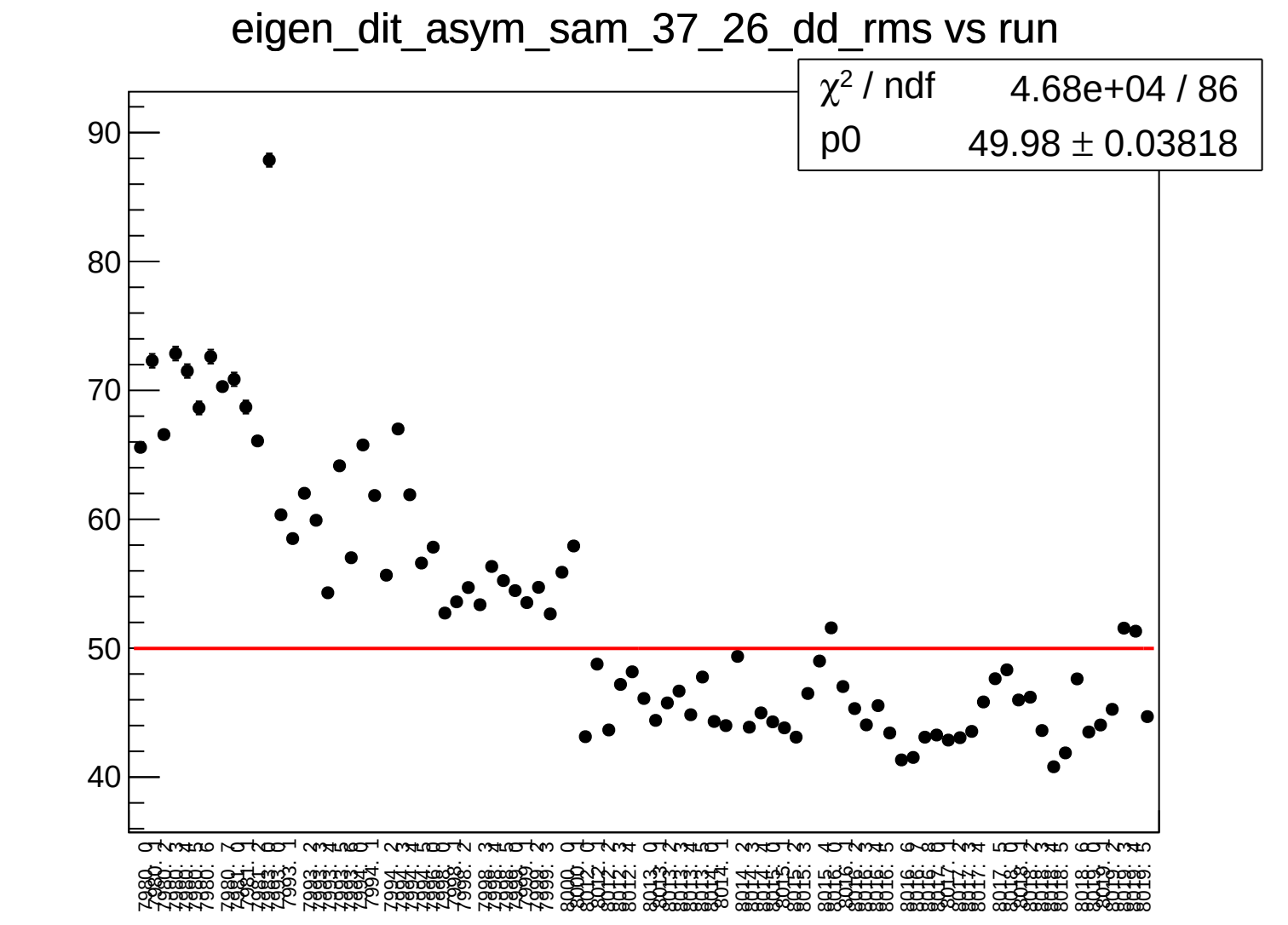

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 4.68e+04 / 86
p0 49.98 ± 0.03818
90
80
70
60
50
40

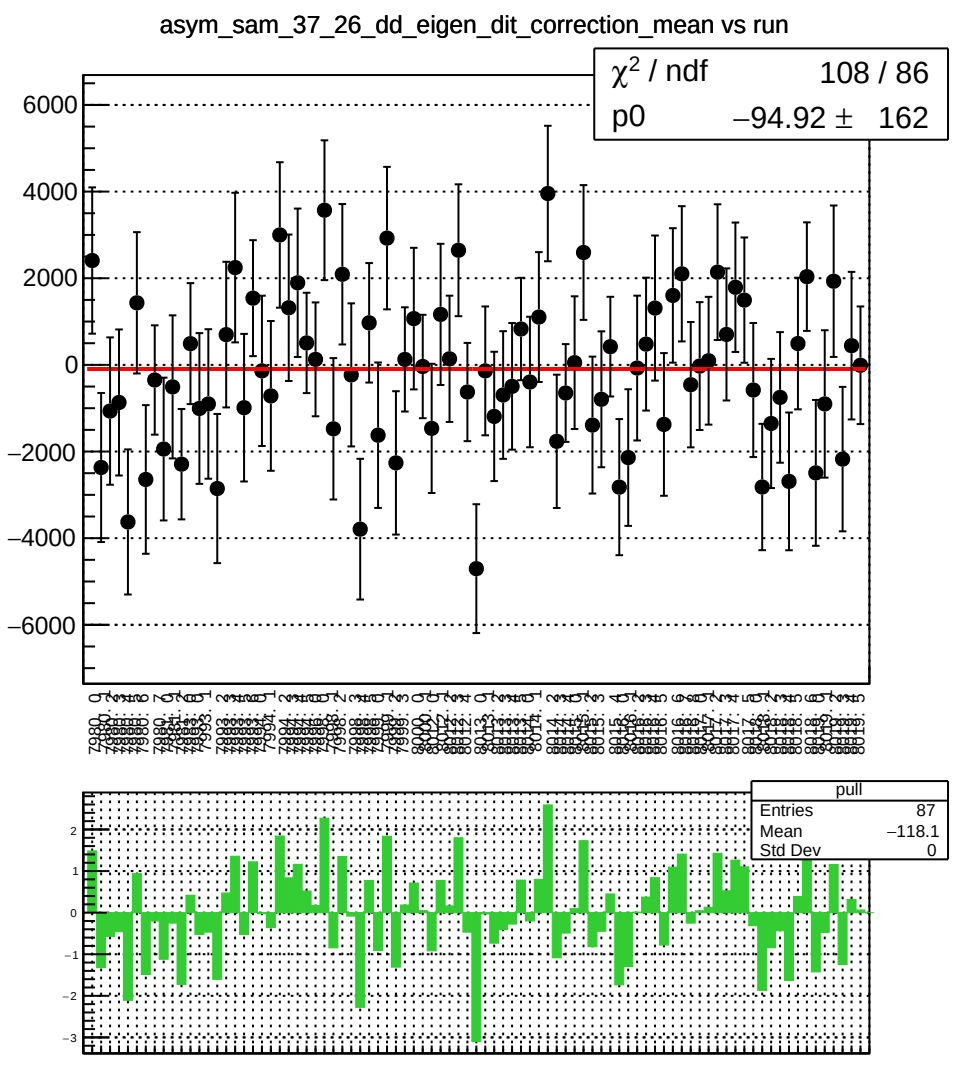

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 108 / 86
p0 −94.92 ± 162
pull
Entries 87
Mean −118.1
Std Dev 0
pull1D
Entries 87
Mean −0.009469
Std Dev 1.114

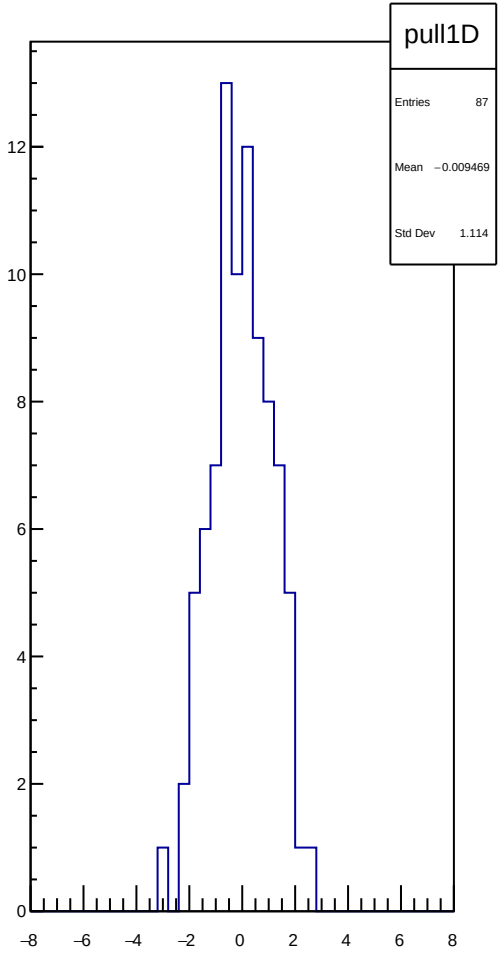

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 5310 / 86
p0 151.8 ± 0.1146
170
165
160
155
150
145
140
135

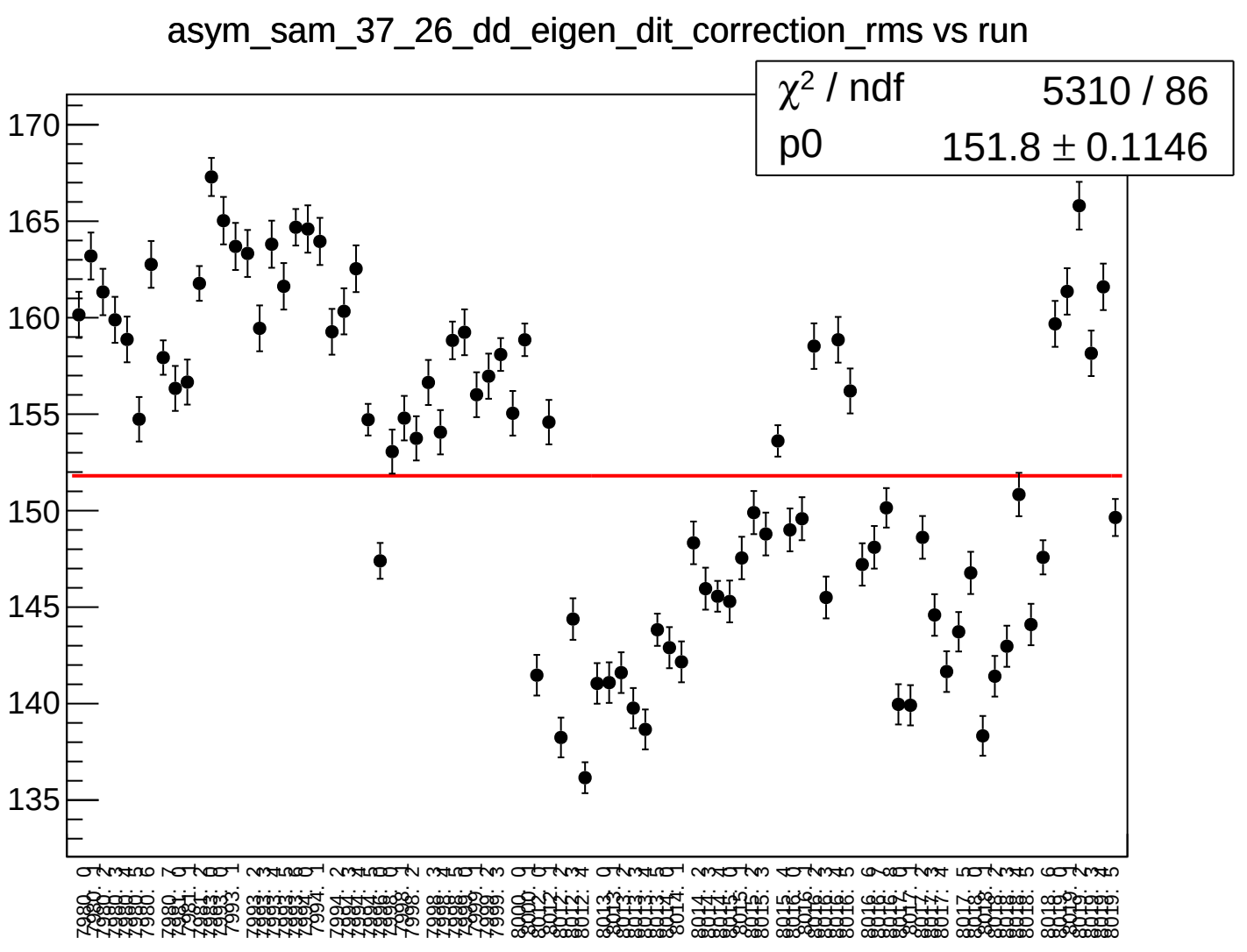

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 126.2 / 86
p0 −107.6 ± 53.99
pull
Entries 87
Mean 197.4
Std Dev 0

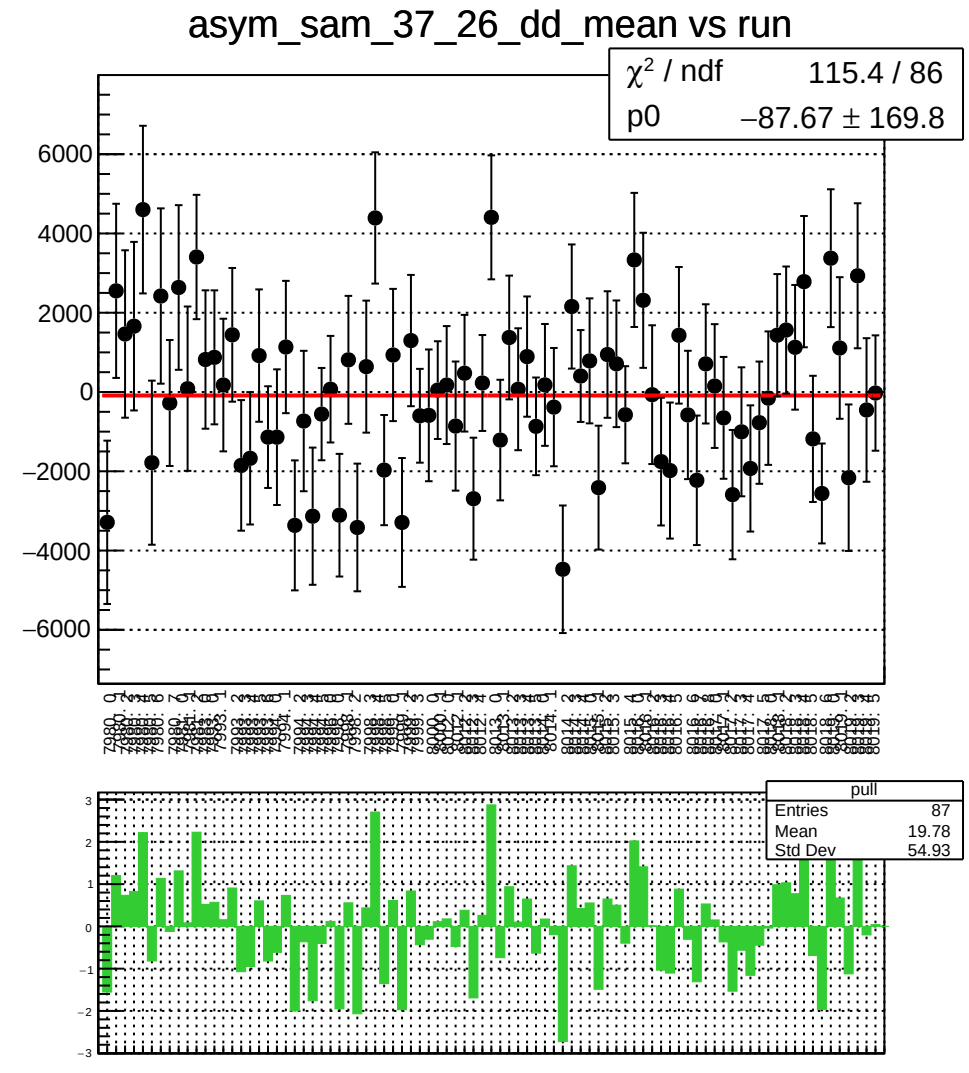

pull1D
Entries 87
Mean 0.00544
Std Dev 1.204

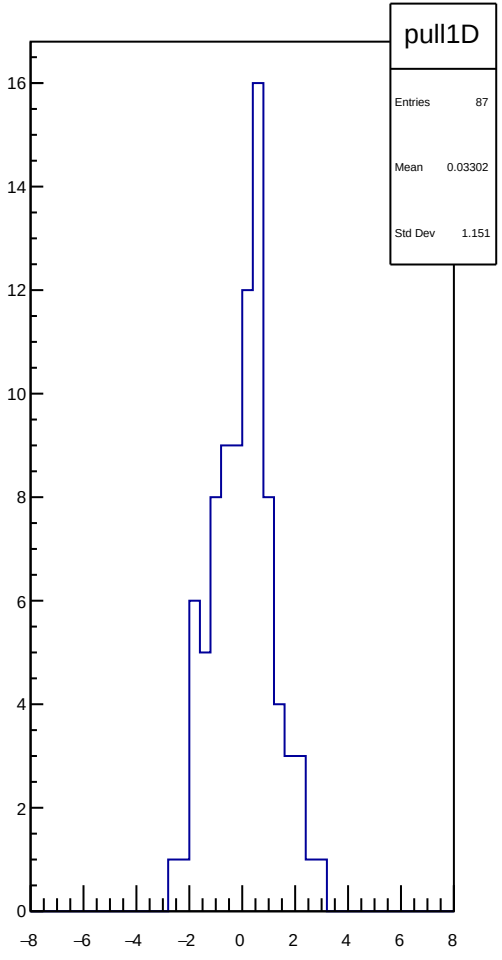

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 4.68e+04 / 86
p0 49.98 ± 0.03818
90
80
70
60
50
40

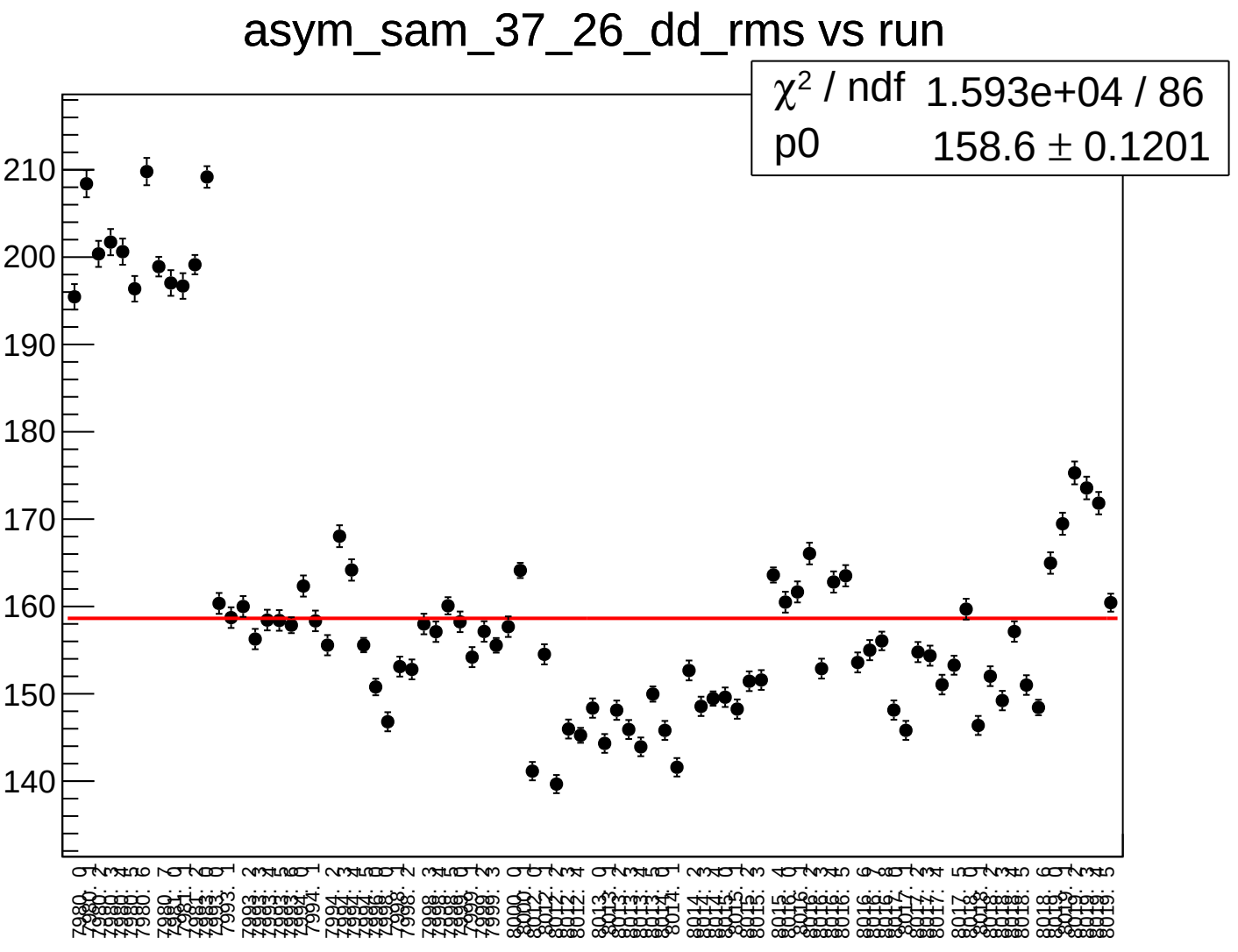

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 108 / 86
p0 −94.92 ± 162
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −118.1
Std Dev 0
2
1
0
−1
−2
−3

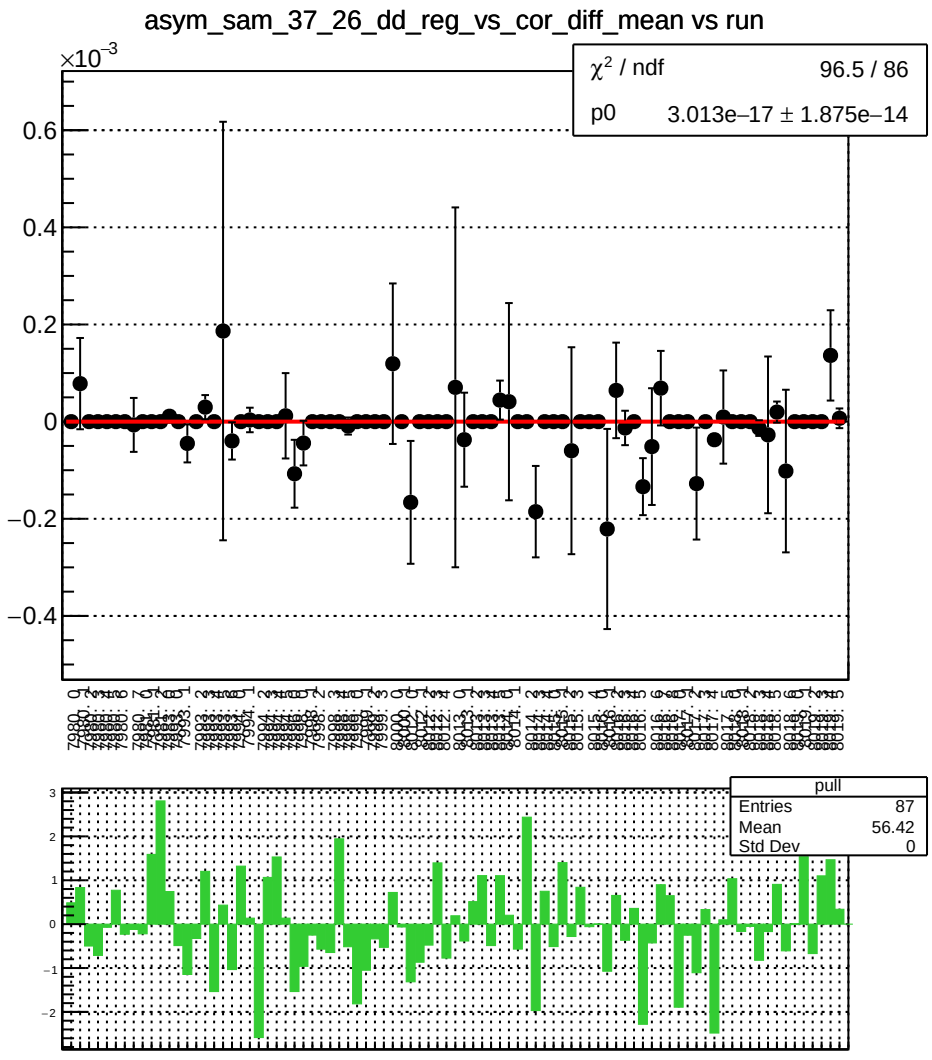

pull1D
Entries 87
Mean −0.009469
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

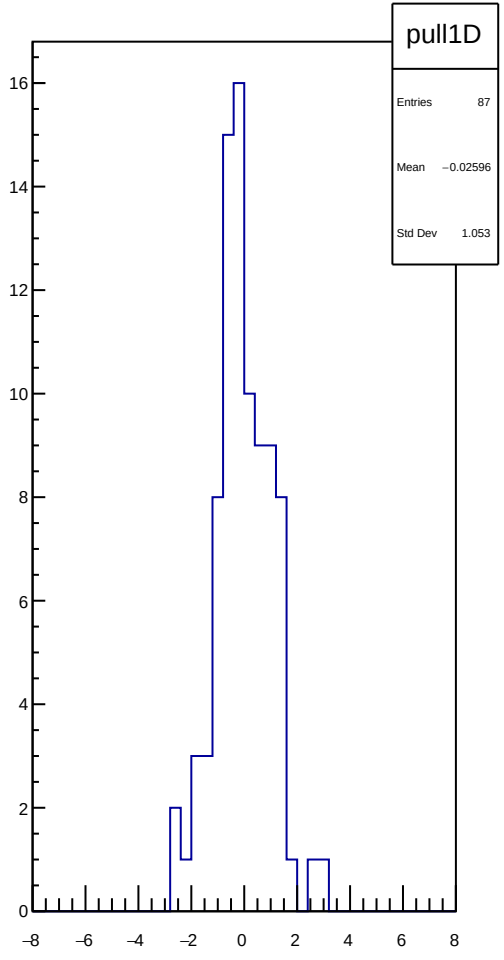

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 5310 / 86
p0 151.8 ± 0.1146
170
165
160
155
150
145
140
135

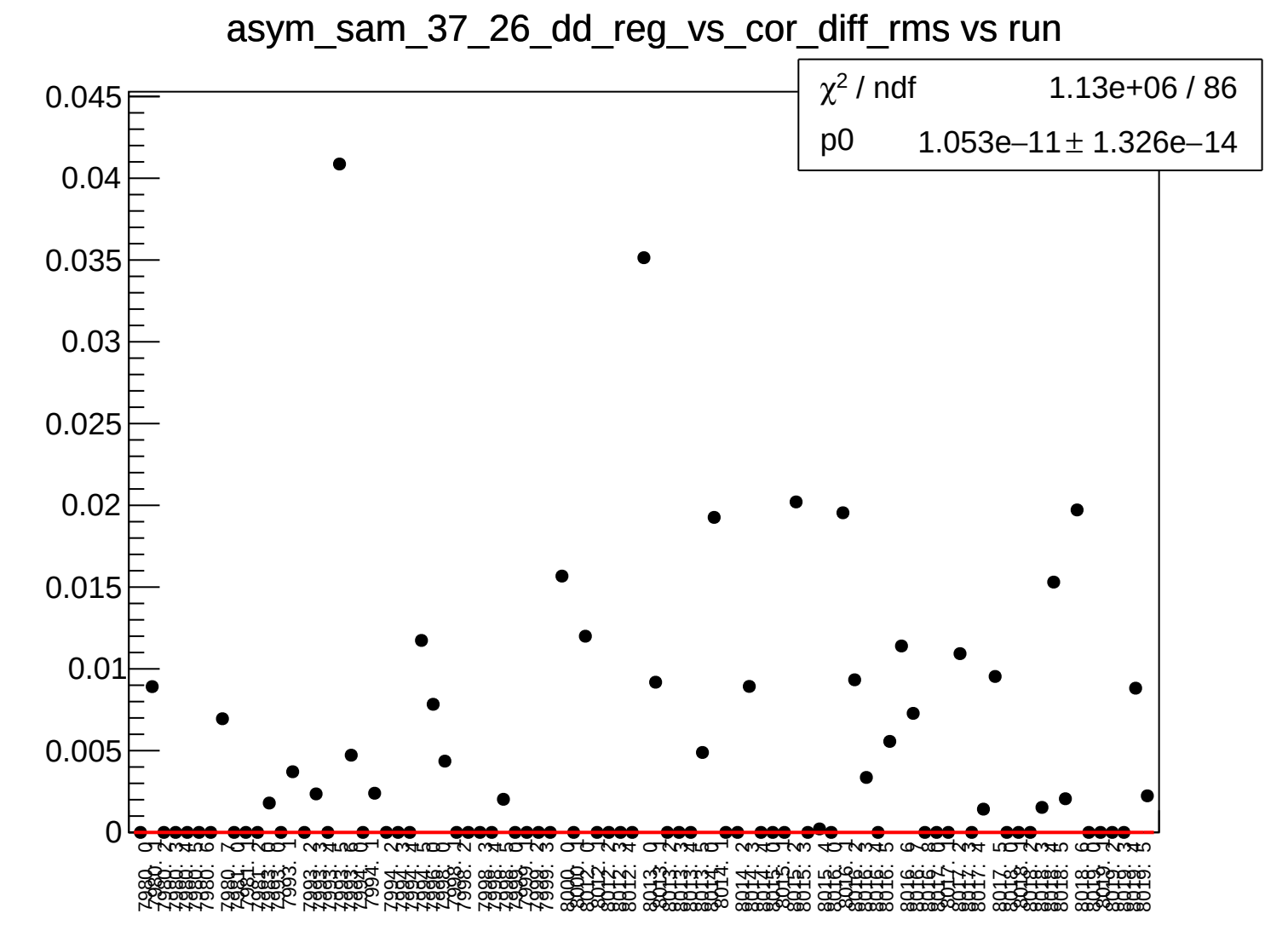

asym_sam_37_26_dd_mean vs run
χ² / ndf 115.4 / 86
p0 −87.67 ± 169.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 19.78
Std Dev 54.93
3
2
1
0
−1
−2
−3

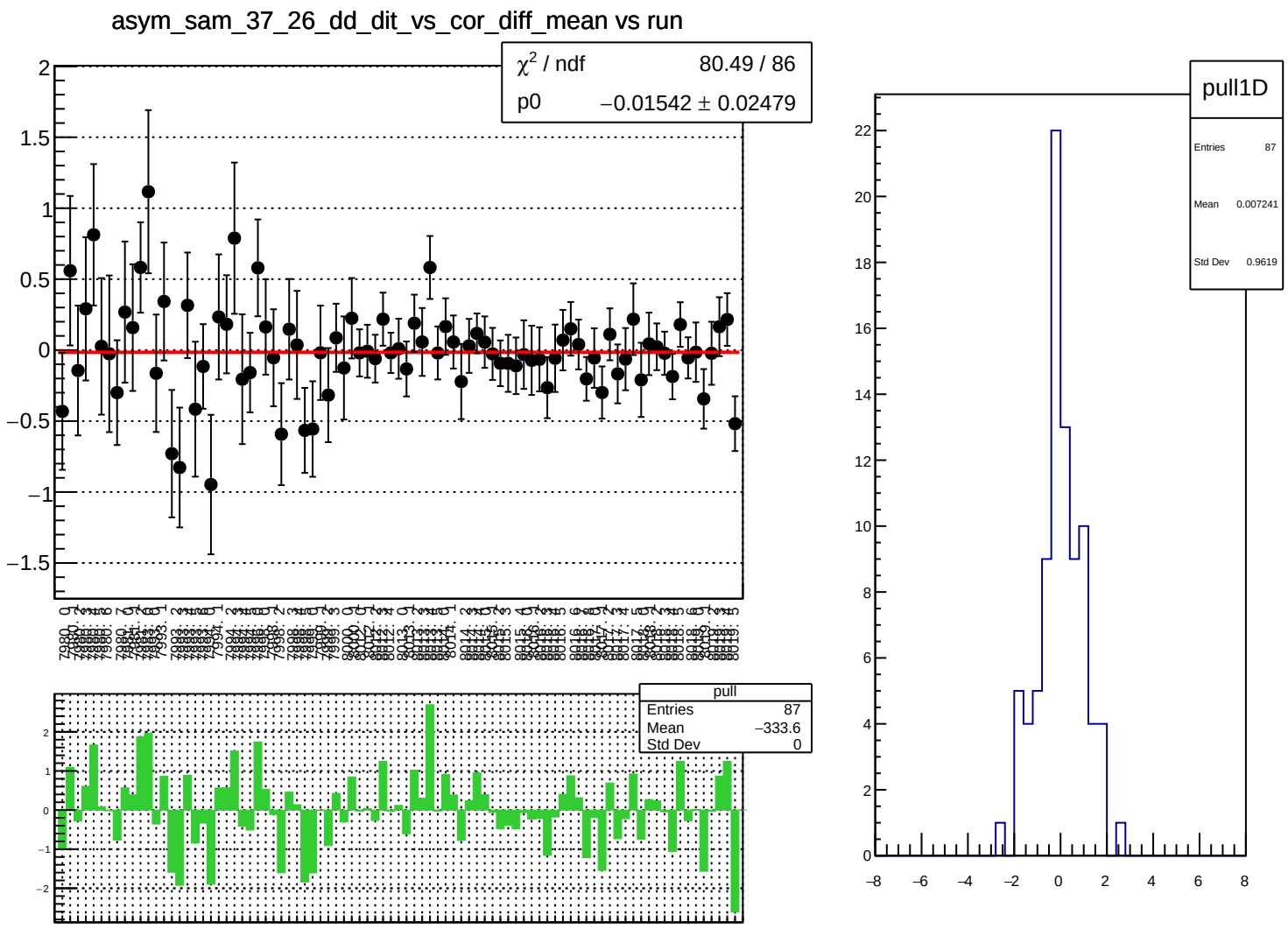

pull1D
Entries 87
Mean 0.03302
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

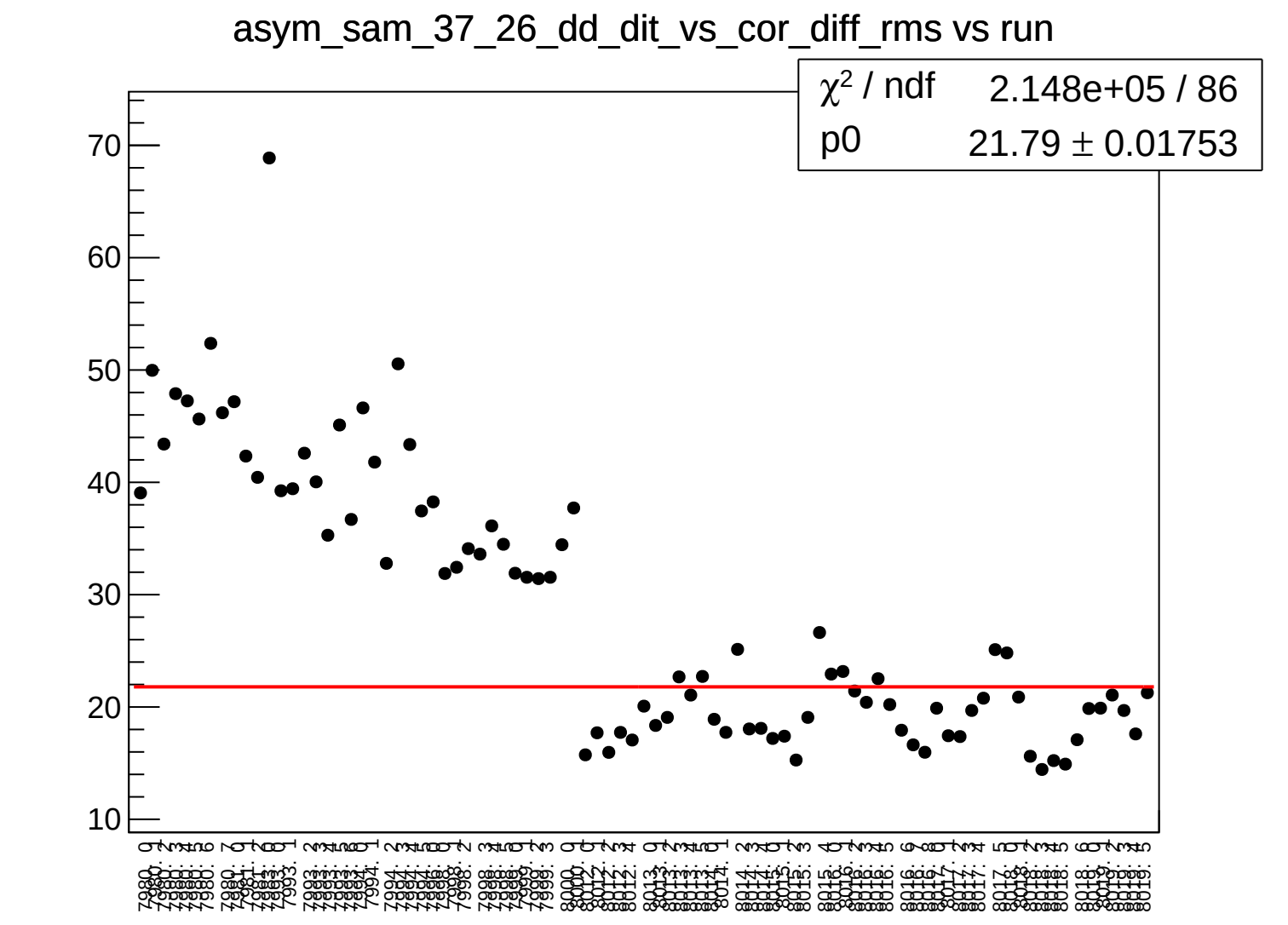

asym_sam_37_26_dd_rms vs run
χ² / ndf 1.593e+04 / 86
p0 158.6 ± 0.1201
210
200
190
180
170
160
150
140

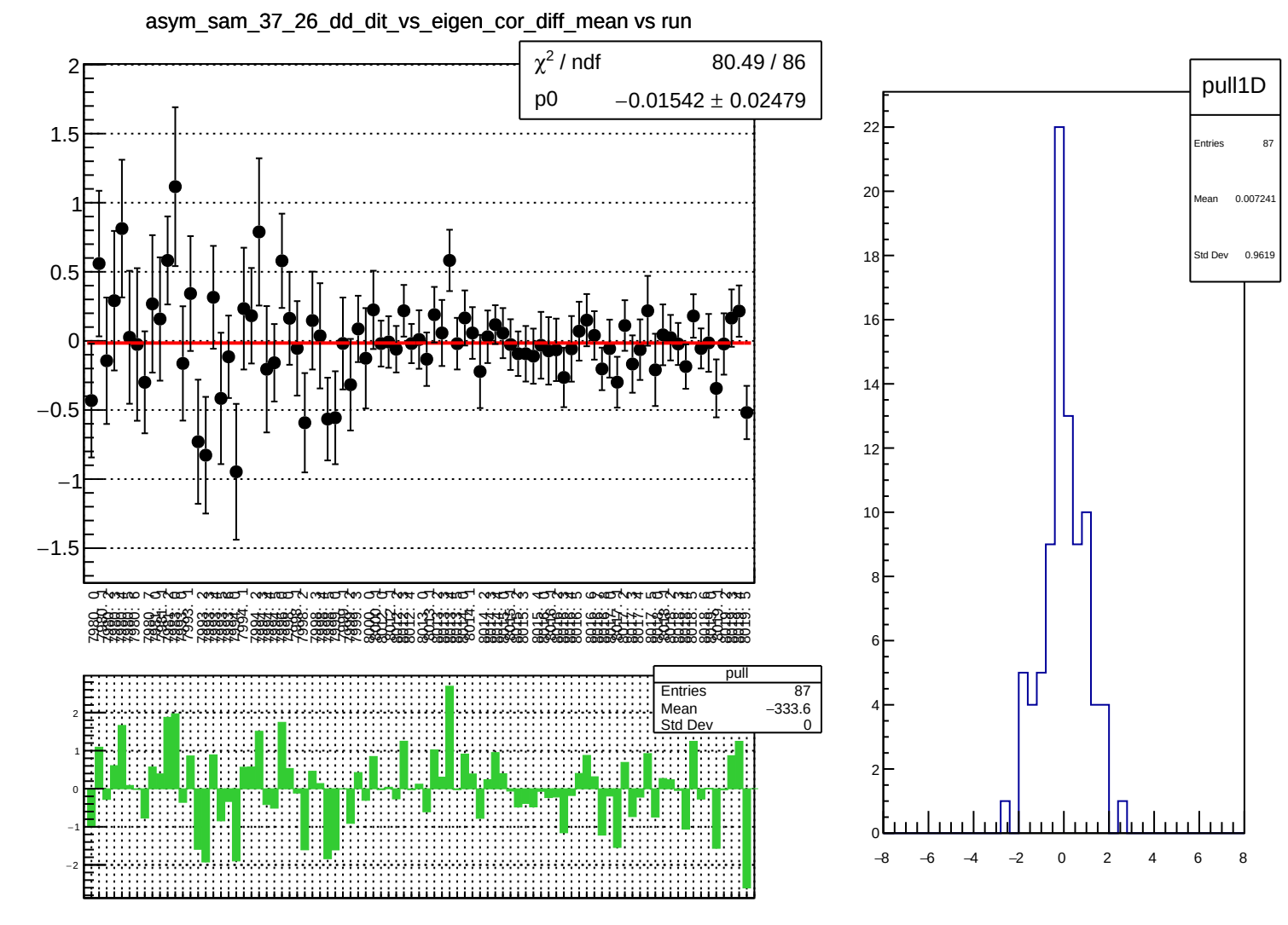

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 96.5 / 86
p0 3.013e−17 ± 1.875e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 87
Mean 56.42
Std Dev 0
3
2
1
0
−1
−2

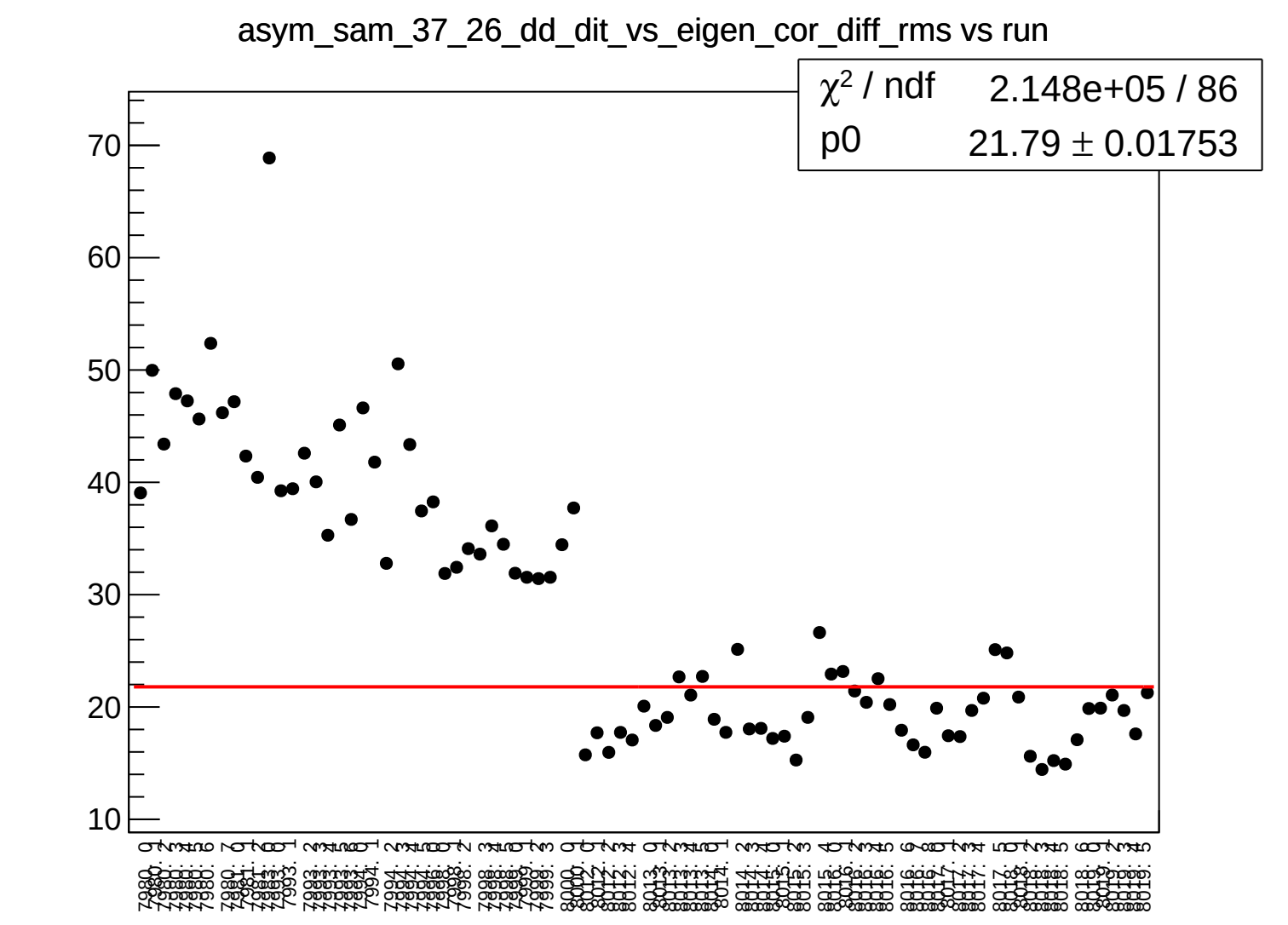

pull1D
Entries 87
Mean −0.02596
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

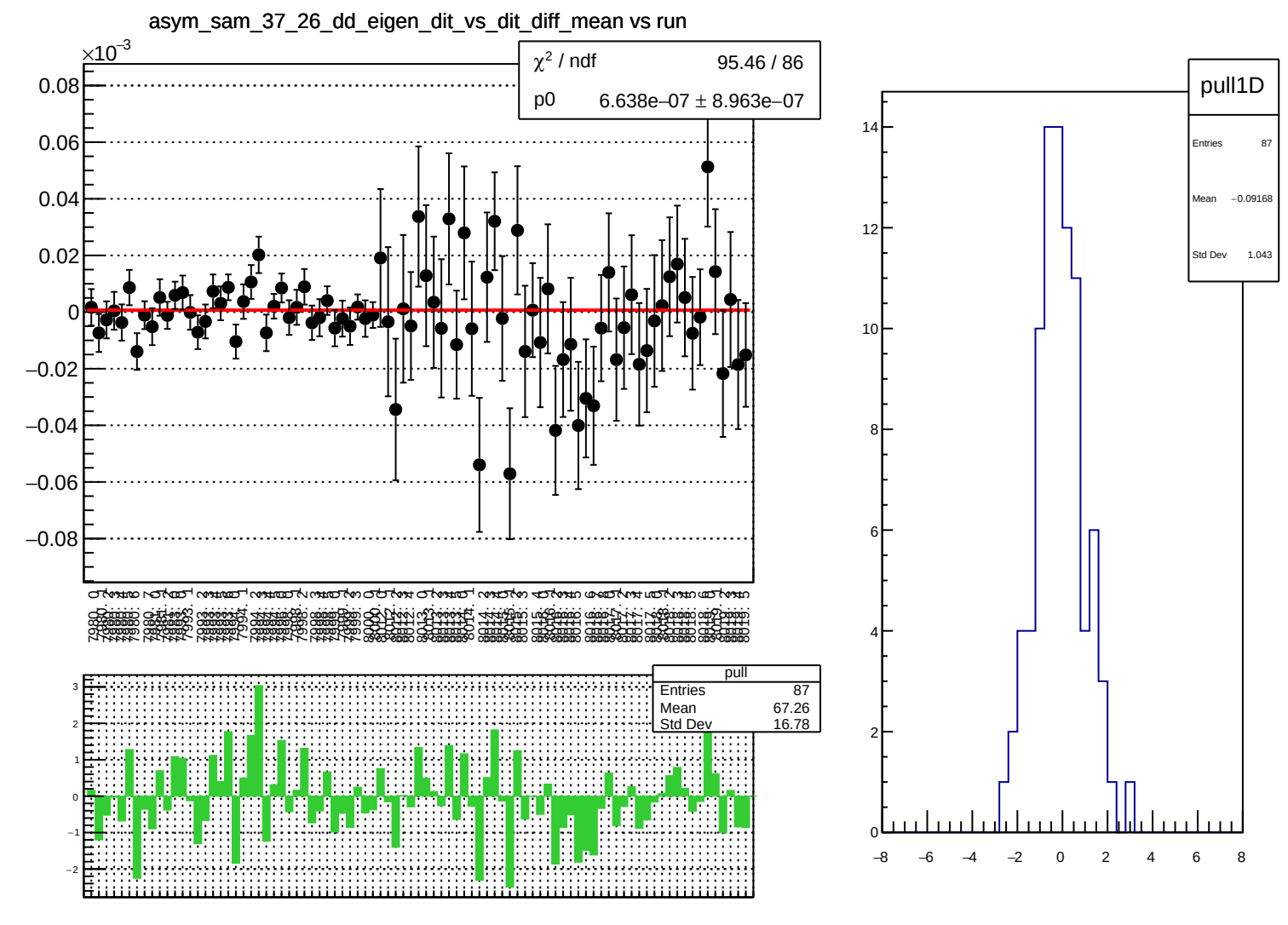

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.13e+06 / 86
p0 1.053e−11 ± 1.326e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

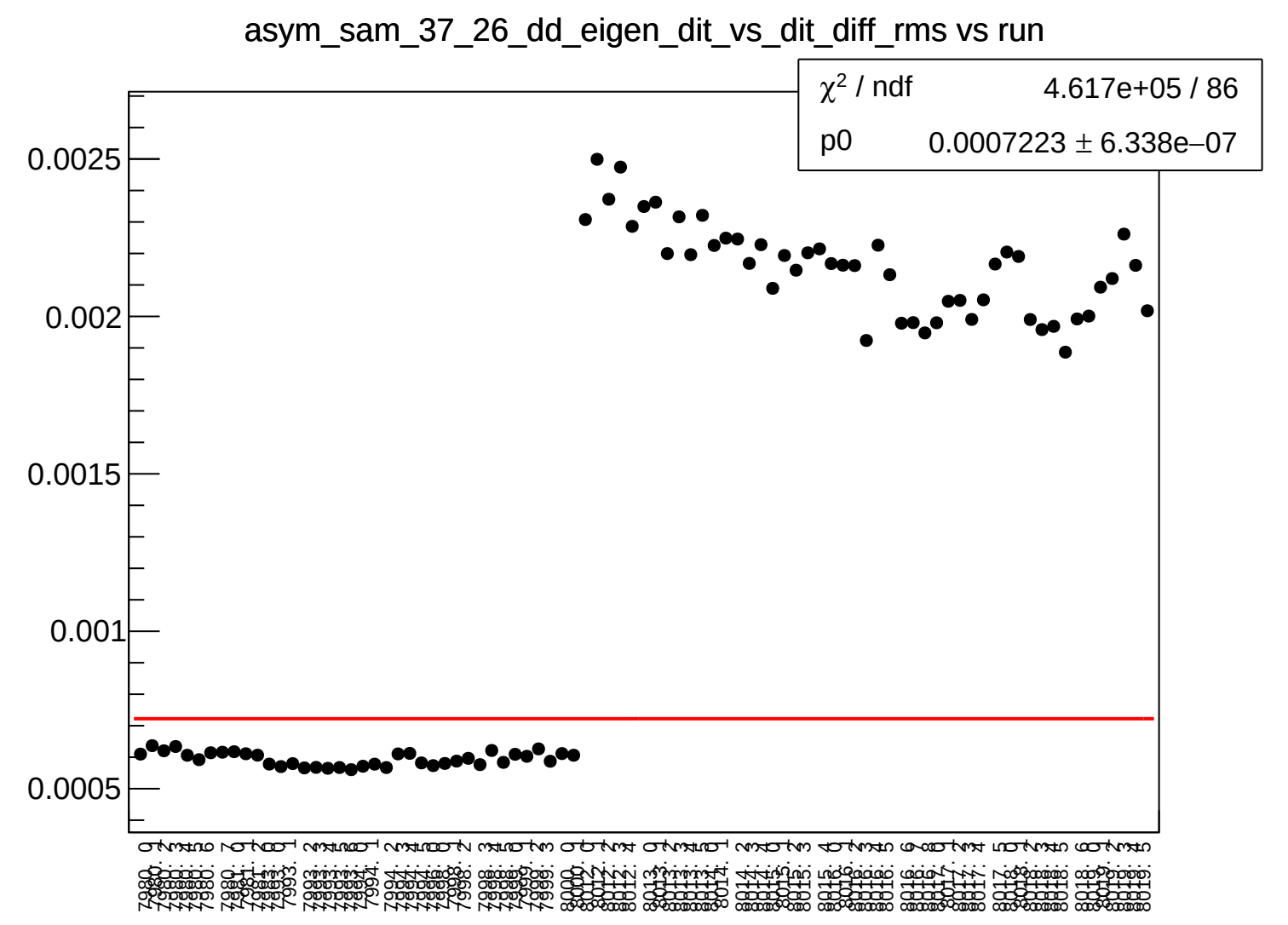

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.49 / 86
p0 −0.01542 ± 0.02479
pull
Entries 87
Mean −333.6
Std Dev 0
pull1D
Entries 87
Mean 0.007241
Std Dev 0.9619

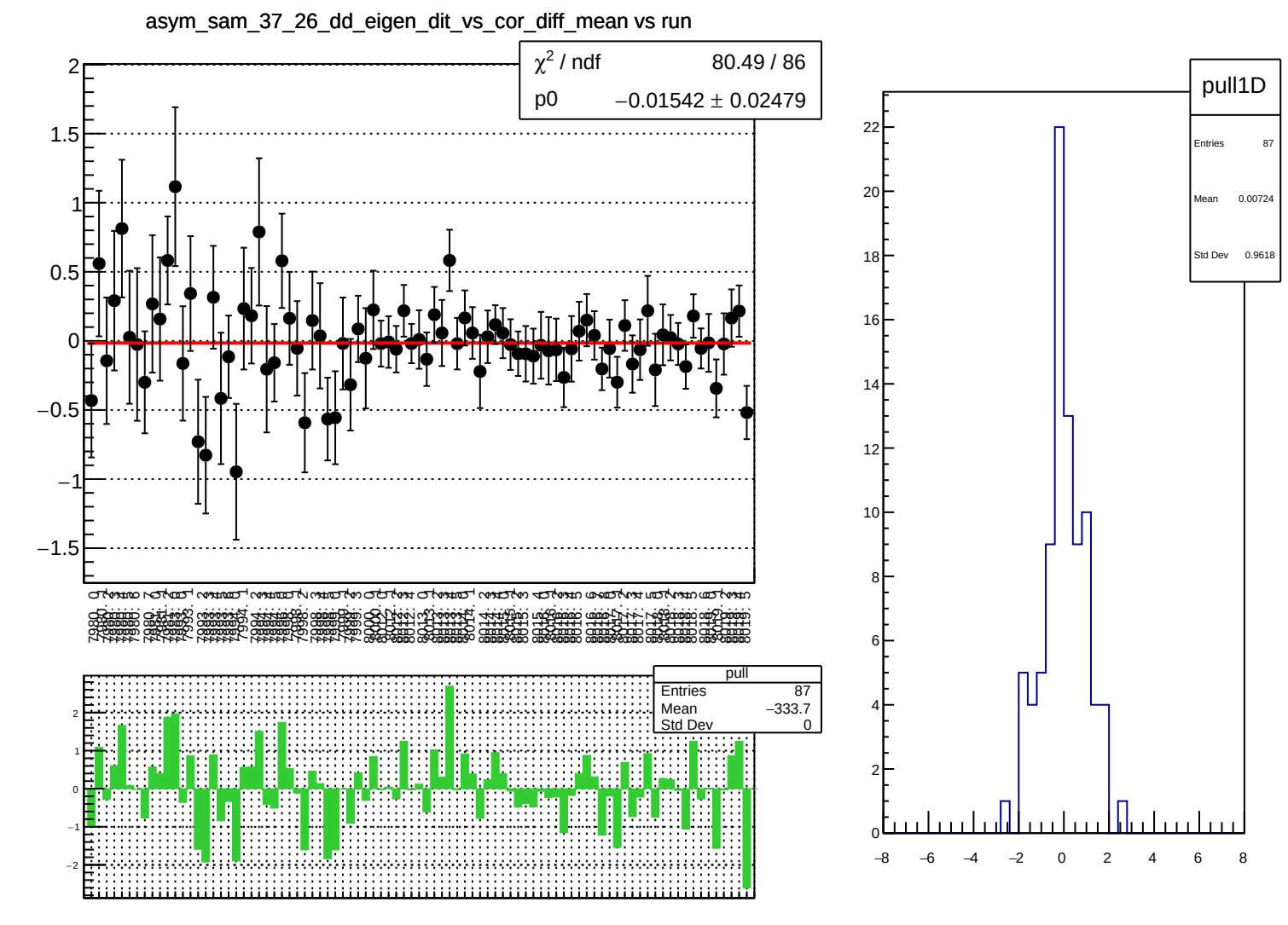

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.148e+05 / 86
p0 21.79 ± 0.01753
70
60
50
40
30
20
10

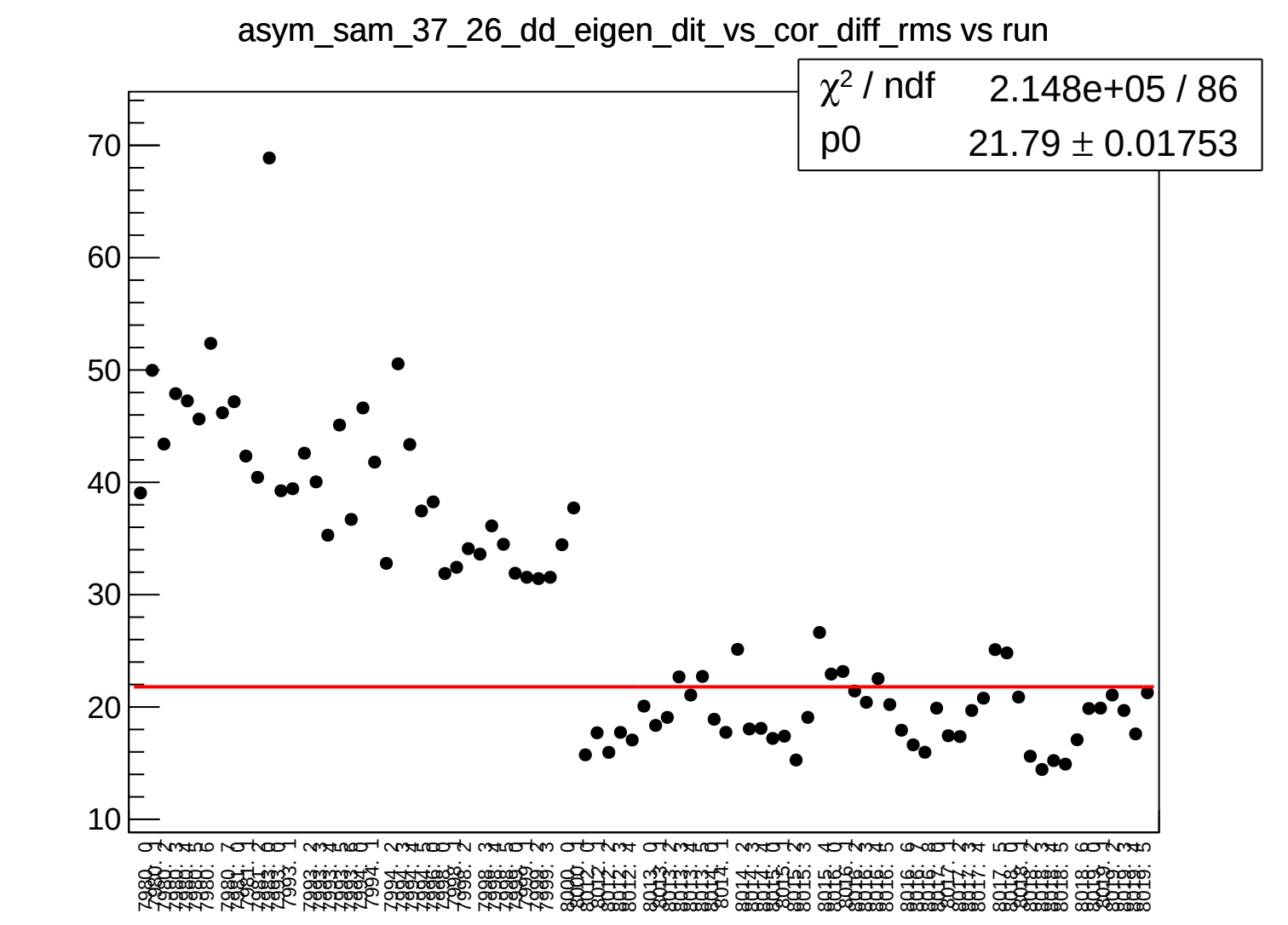

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.49 / 86
p0 −0.01542 ± 0.02479
pull
Entries 87
Mean −333.6
Std Dev 0
pull1D
Entries 87
Mean 0.007241
Std Dev 0.9619

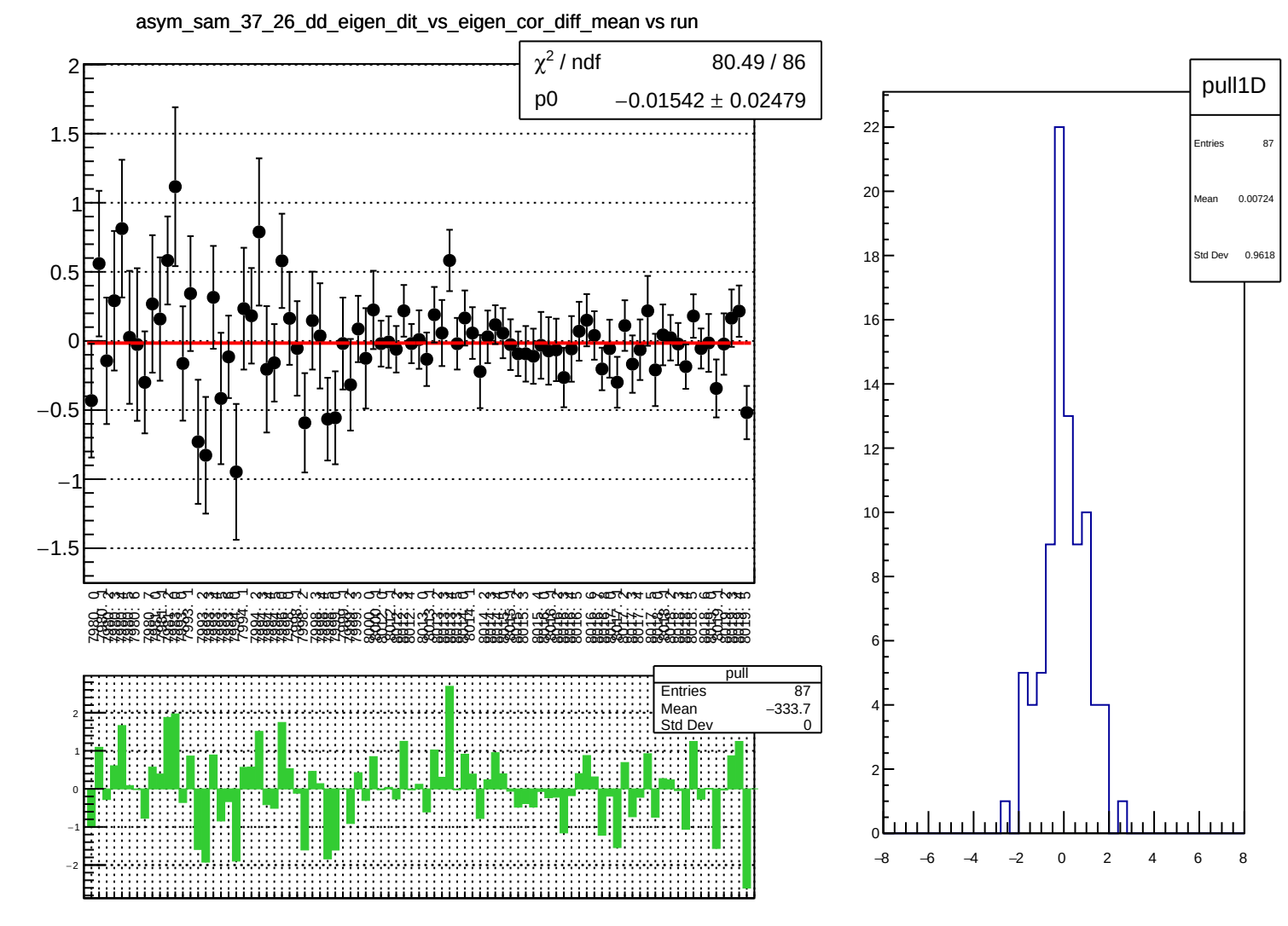

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.148e+05 / 86
p0 21.79 ± 0.01753
70
60
50
40
30
20
10

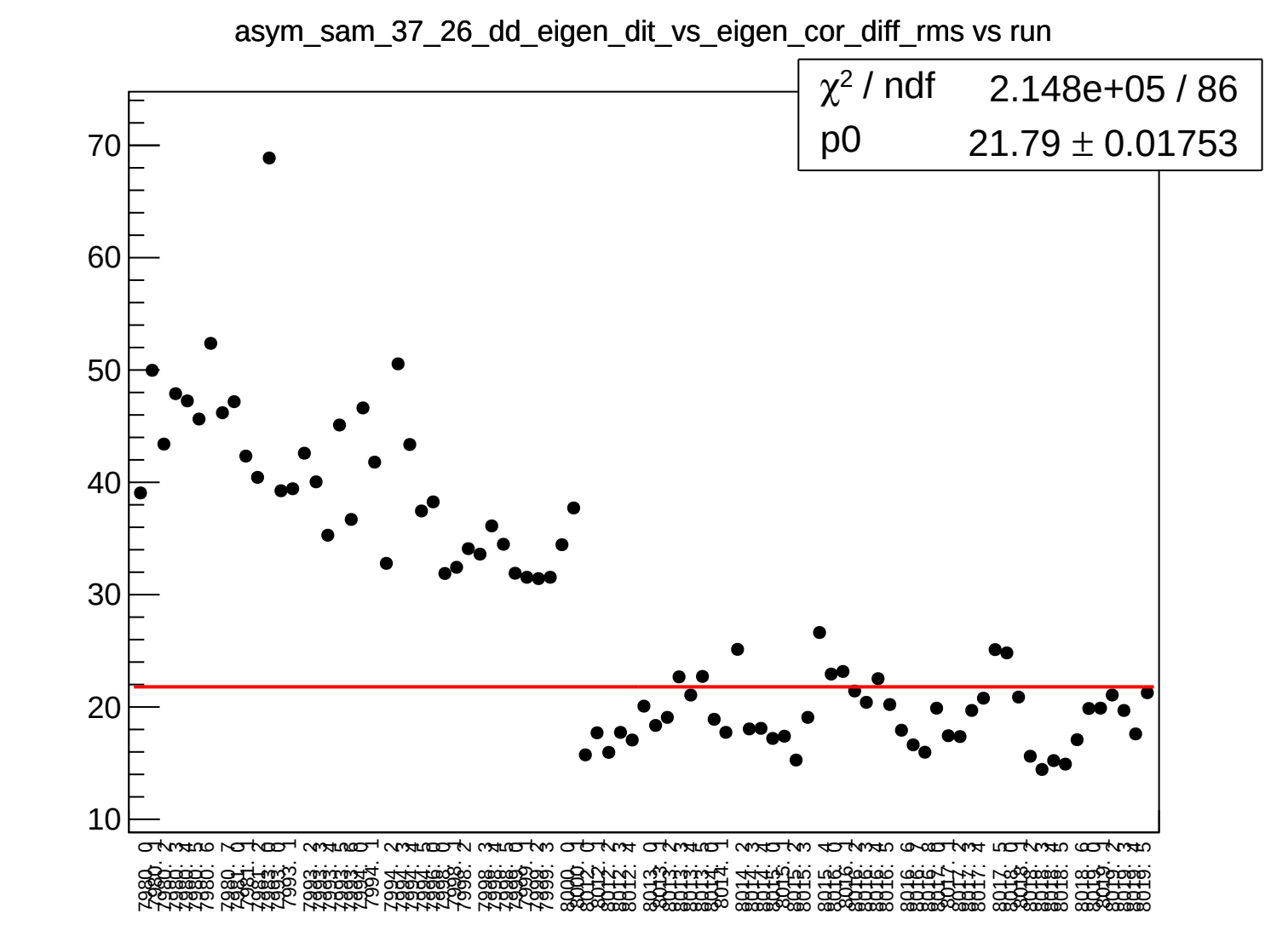

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 95.46 / 86
p0 6.638e−07 ± 8.963e−07
pull
Entries 87
Mean 67.26
Std Dev 16.78
pull1D
Entries 87
Mean −0.09168
Std Dev 1.043

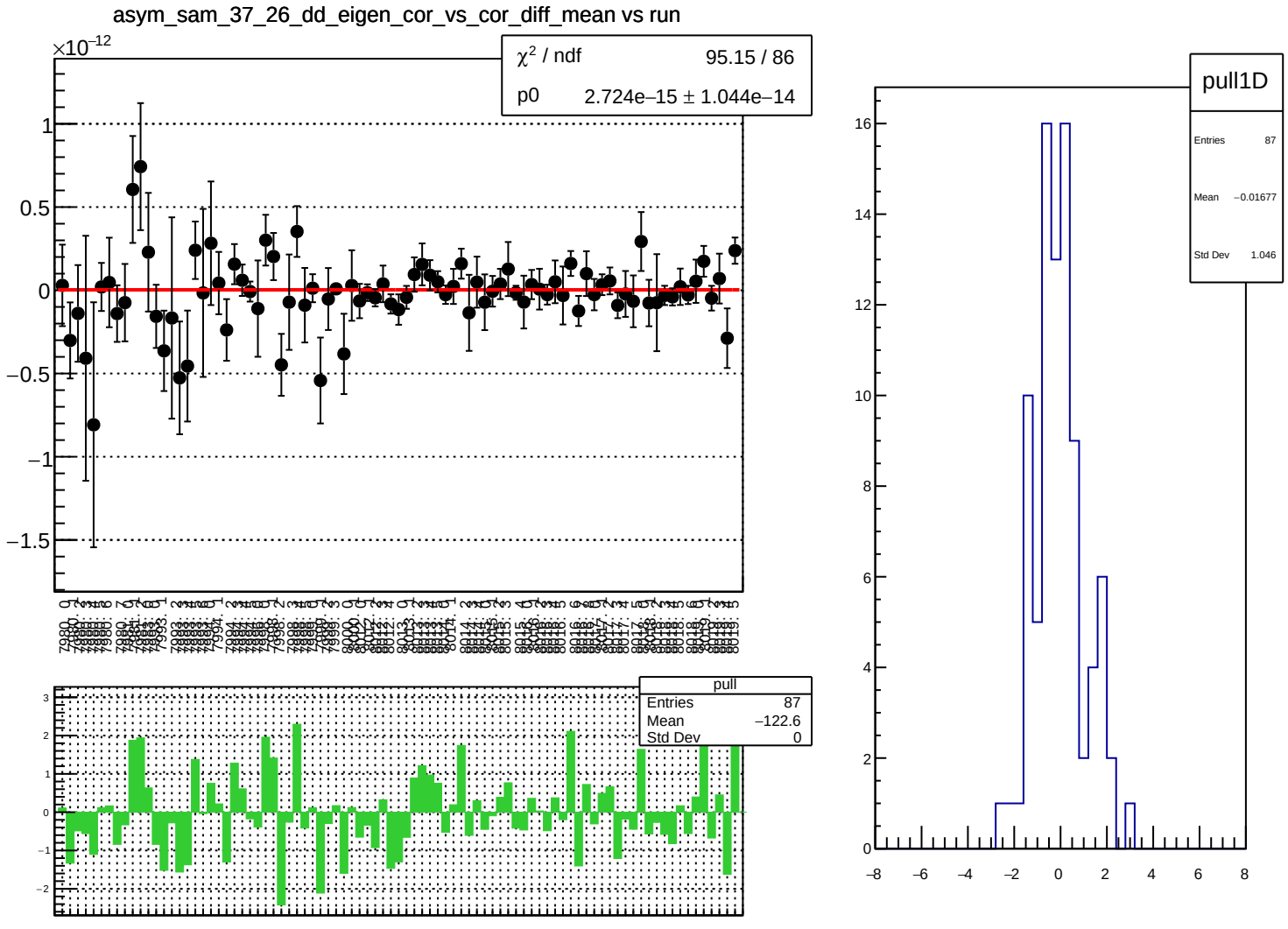

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.617e+05 / 86
p0 0.0007223 ± 6.338e−07
0.0025
0.002
0.0015
0.001
0.0005

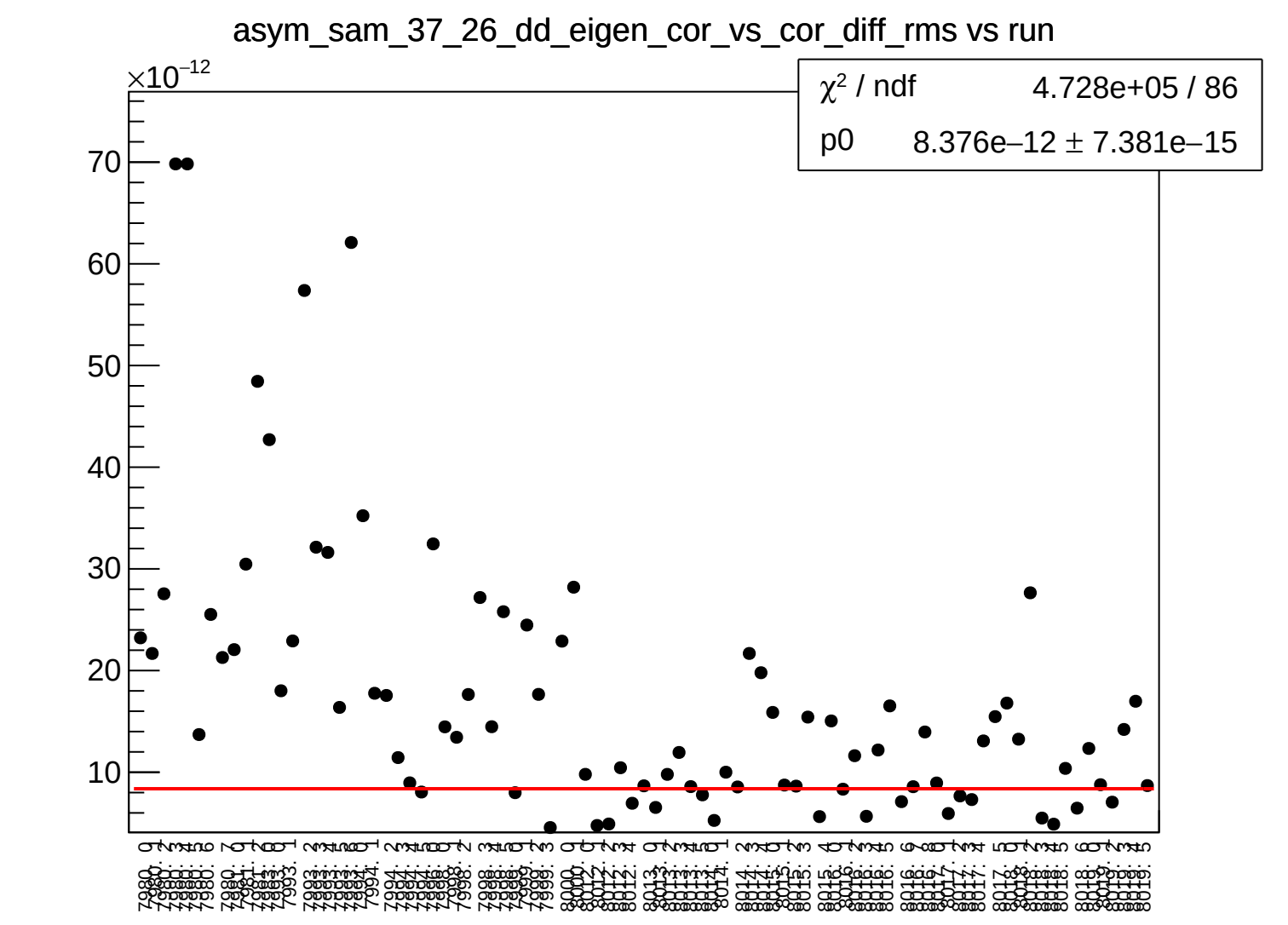

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.49 / 86
p0 −0.01542 ± 0.02479
pull
Entries 87
Mean −333.7
Std Dev 0
pull1D
Entries 87
Mean 0.00724
Std Dev 0.9618

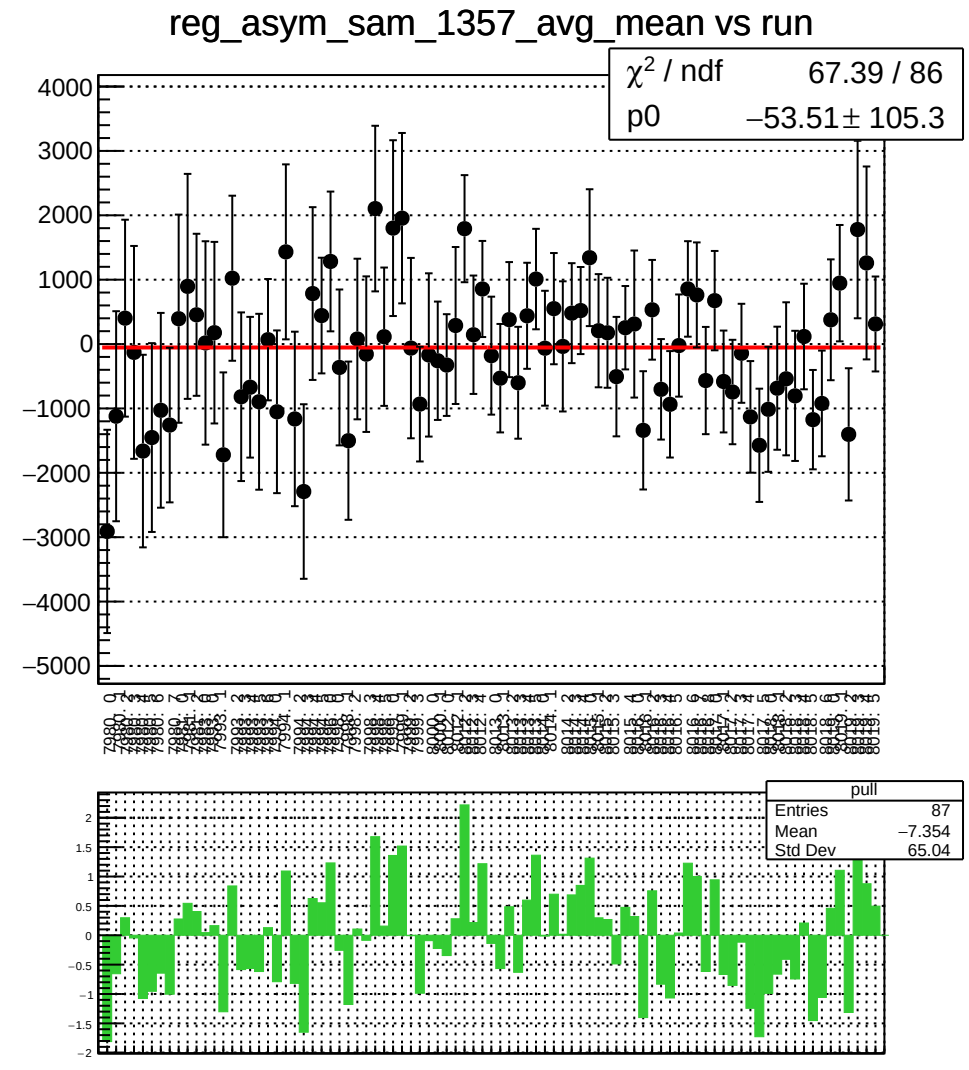

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.148e+05 / 86
p0 21.79 ± 0.01753
70
60
50
40
30
20
10

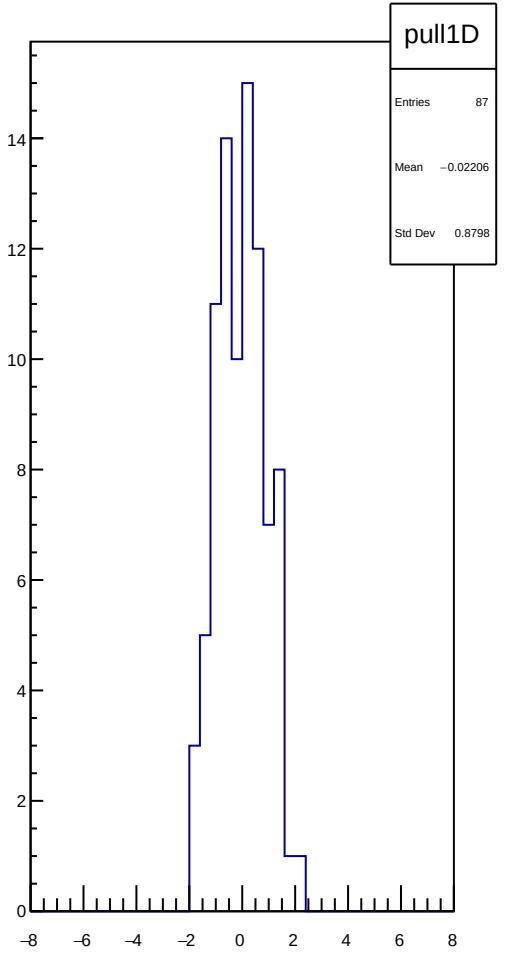

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.49 / 86
p0 −0.01542 ± 0.02479
pull
Entries 87
Mean −333.7
Std Dev 0
pull1D
Entries 87
Mean 0.00724
Std Dev 0.9618

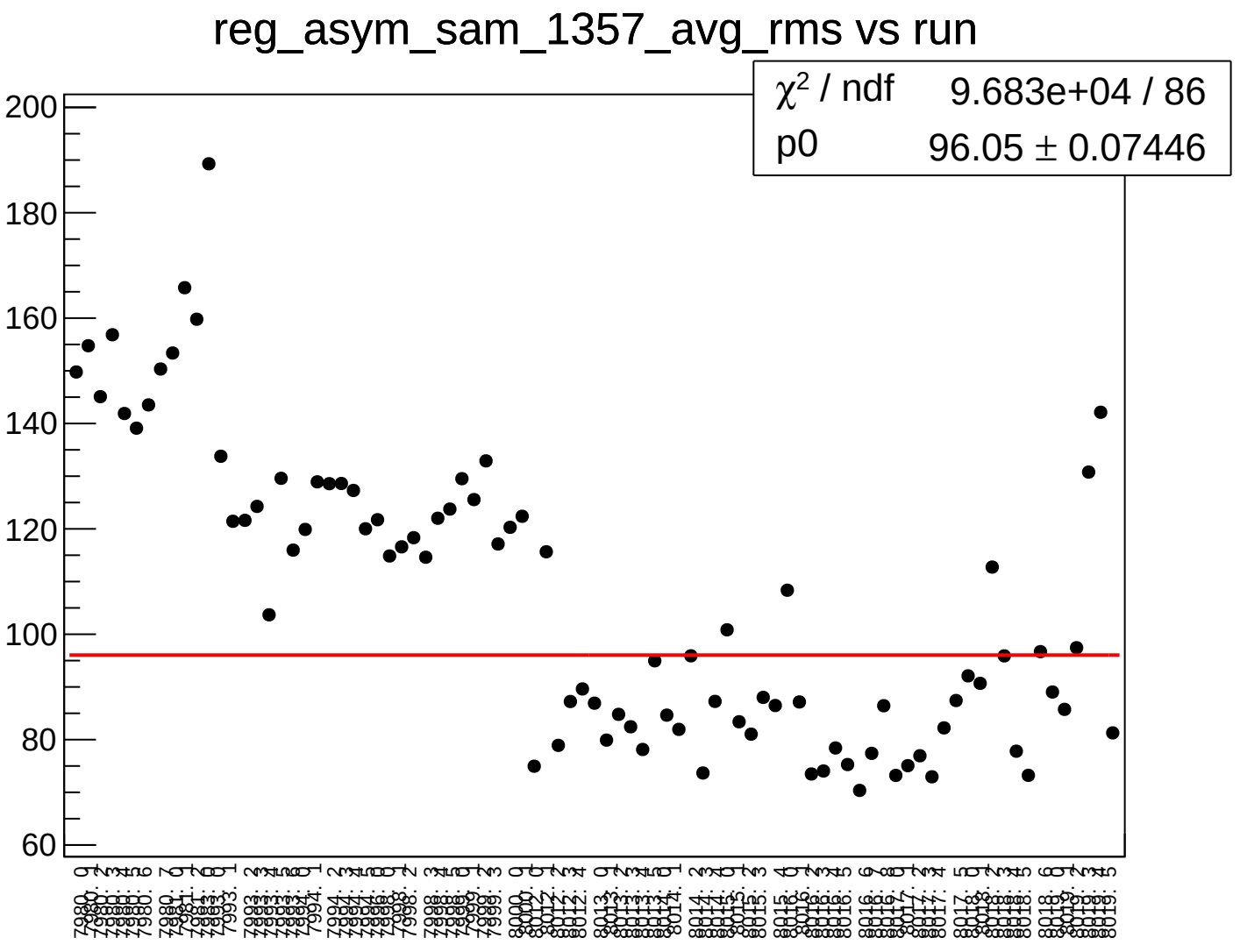

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.148e+05 / 86
p0 21.79 ± 0.01753
70
60
50
40
30
20
10

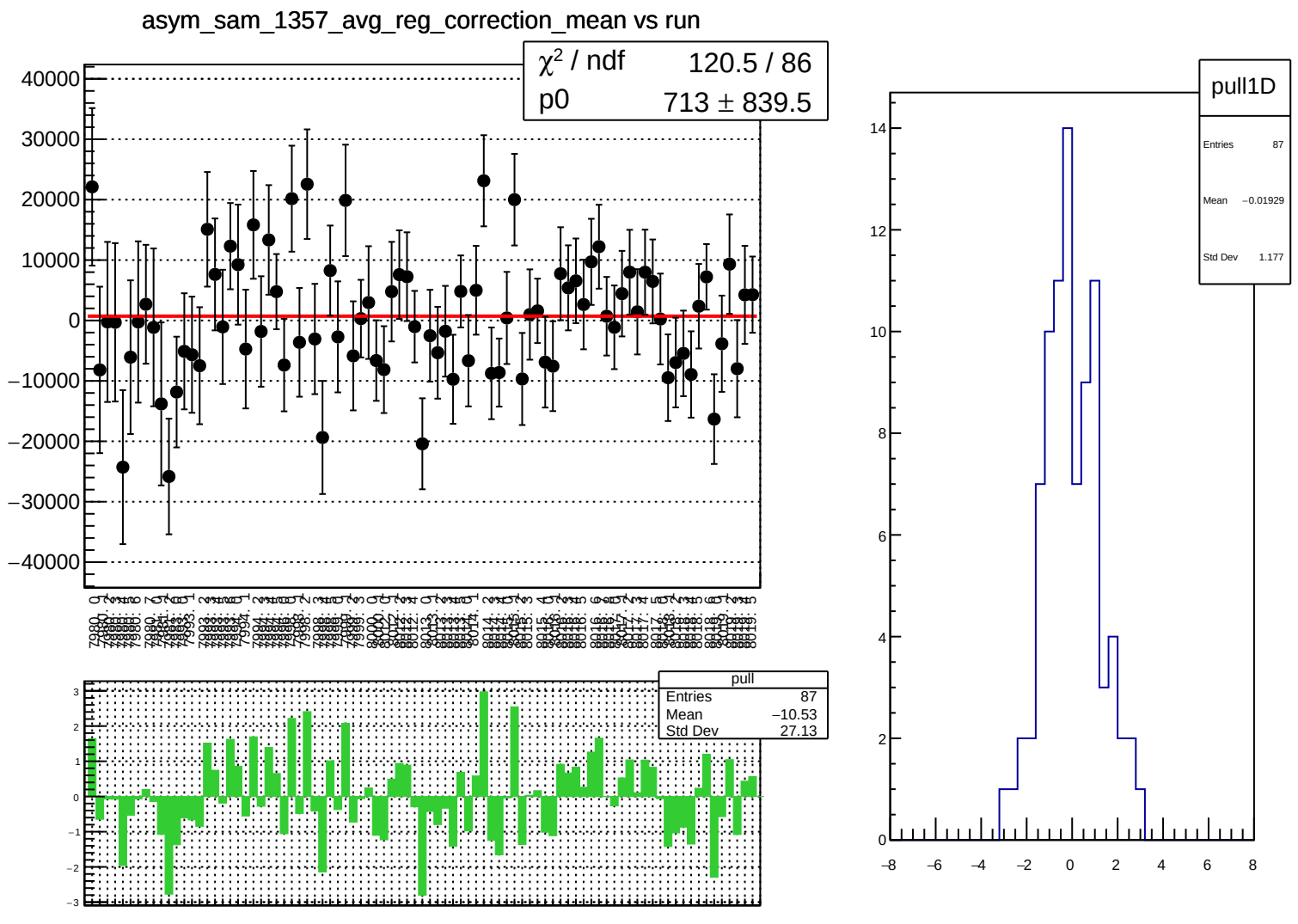

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.15 / 86
p0 2.724e−15 ± 1.044e−14
1
0.5
0
−0.5
−1
−1.5
pull
Entries 87
Mean −122.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01677
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

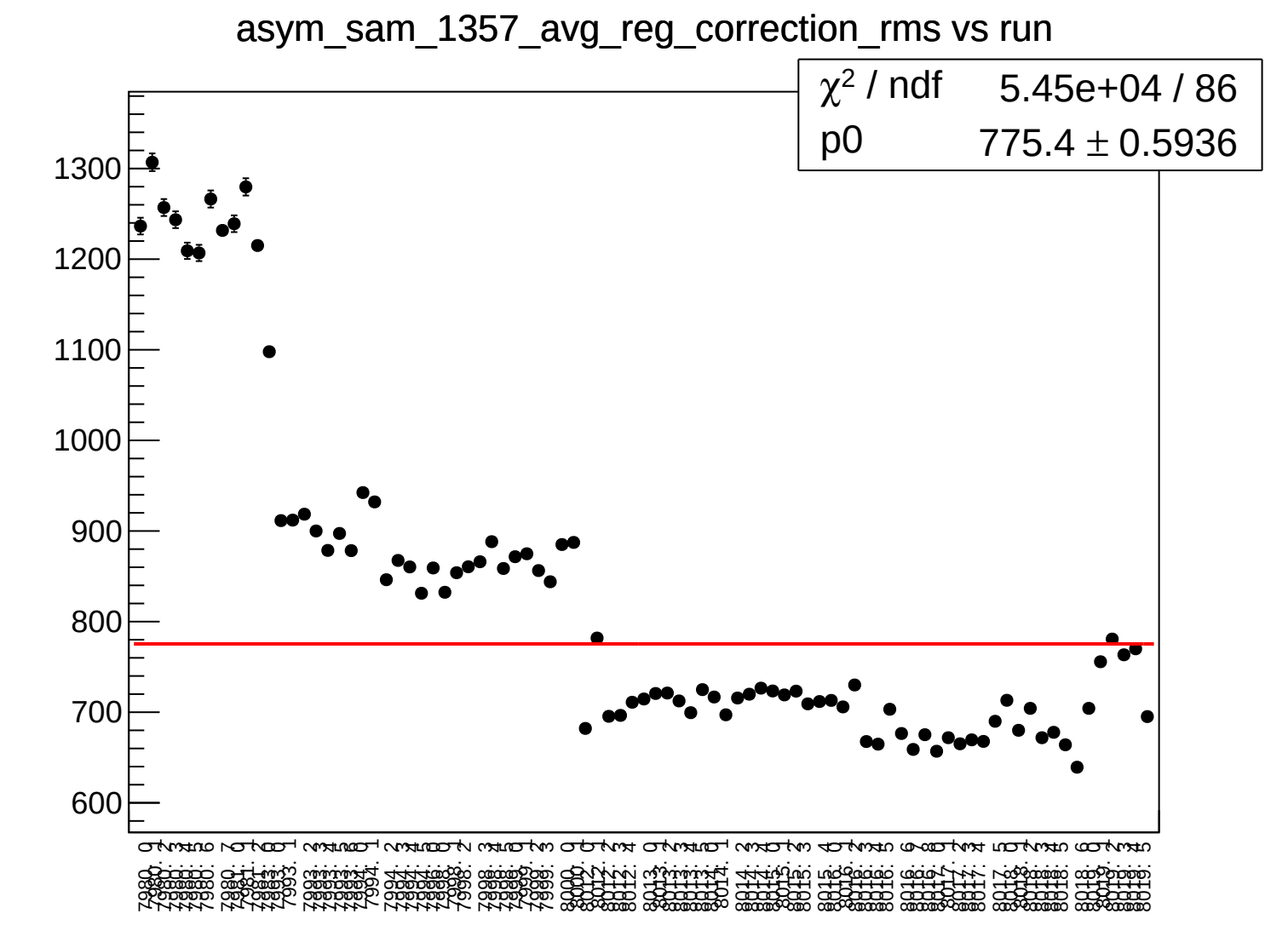

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.728e+05 / 86
p0 8.376e−12 ± 7.381e−15
70
60
50
40
30
20
10

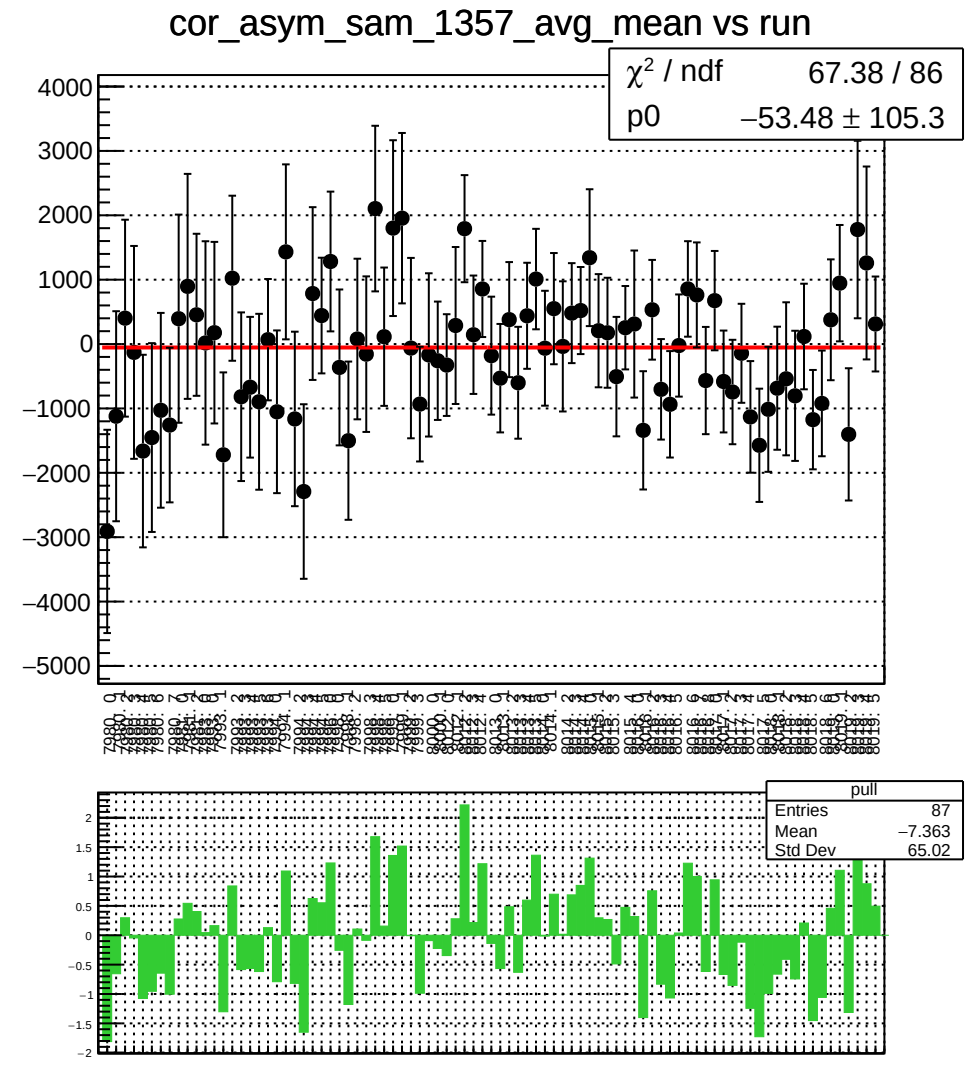

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 67.39 / 86
p0 −53.51 ± 105.3
pull
Entries 87
Mean −7.354
Std Dev 65.04

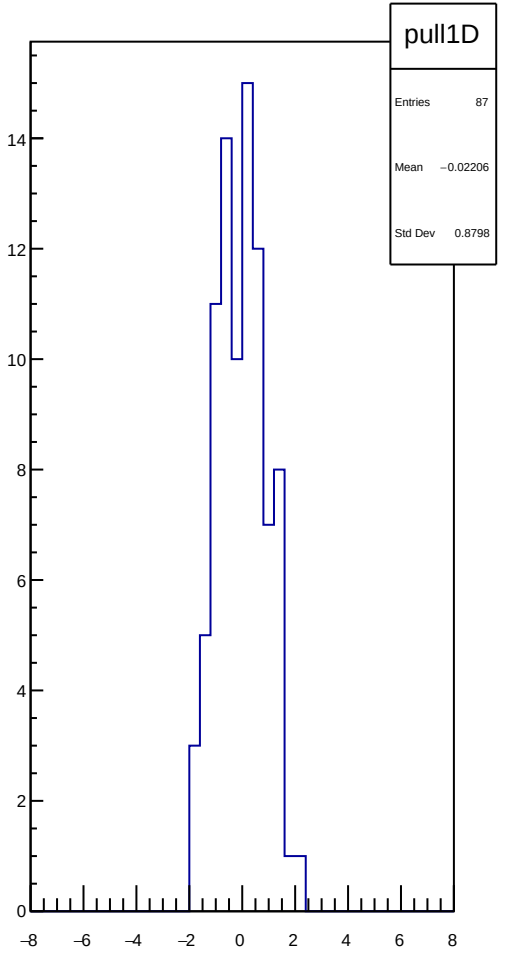

pull1D
Entries 87
Mean −0.02206
Std Dev 0.8798

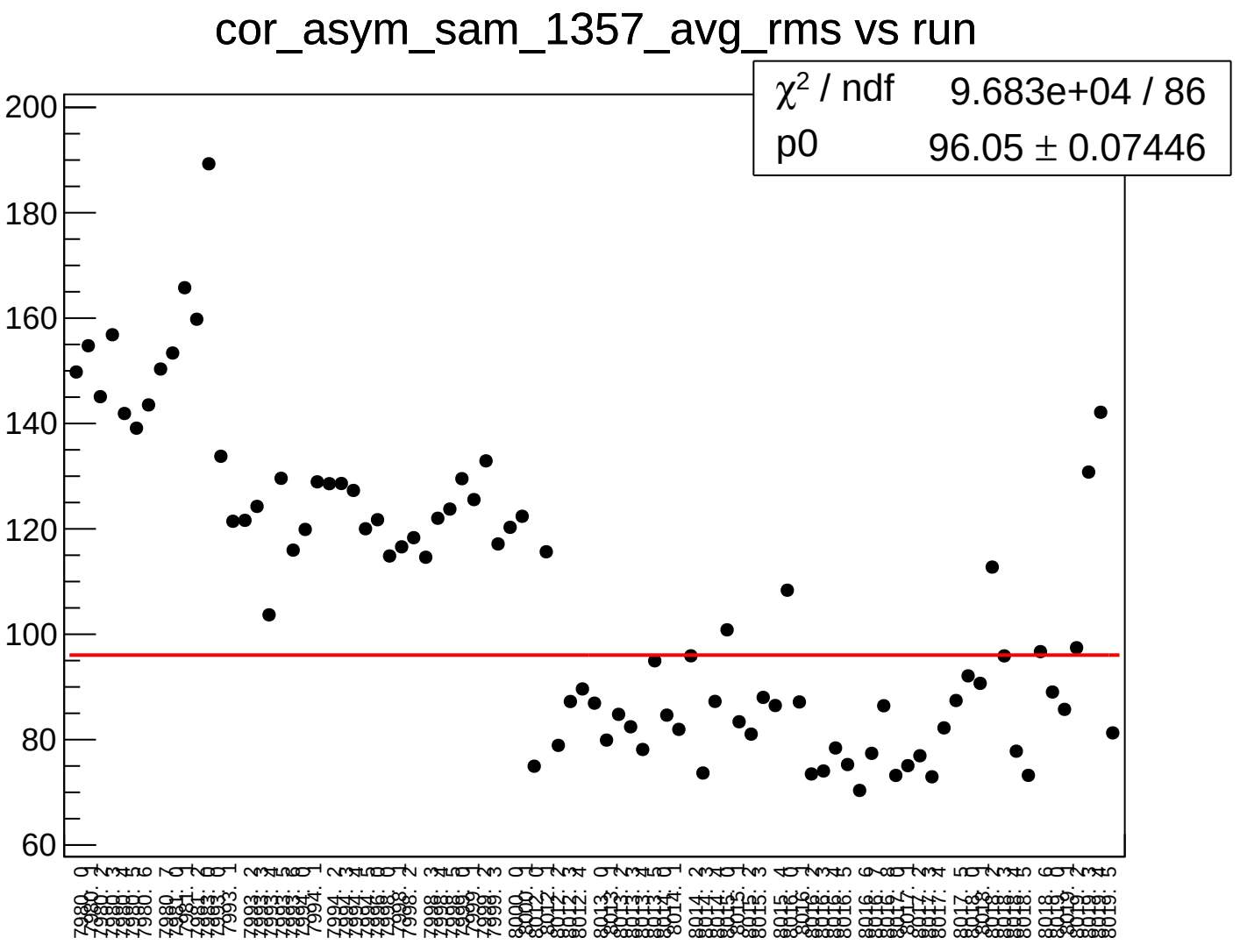

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 9.683e+04 / 86
p0 96.05 ± 0.07446
200
180
160
140
120
100
80
60

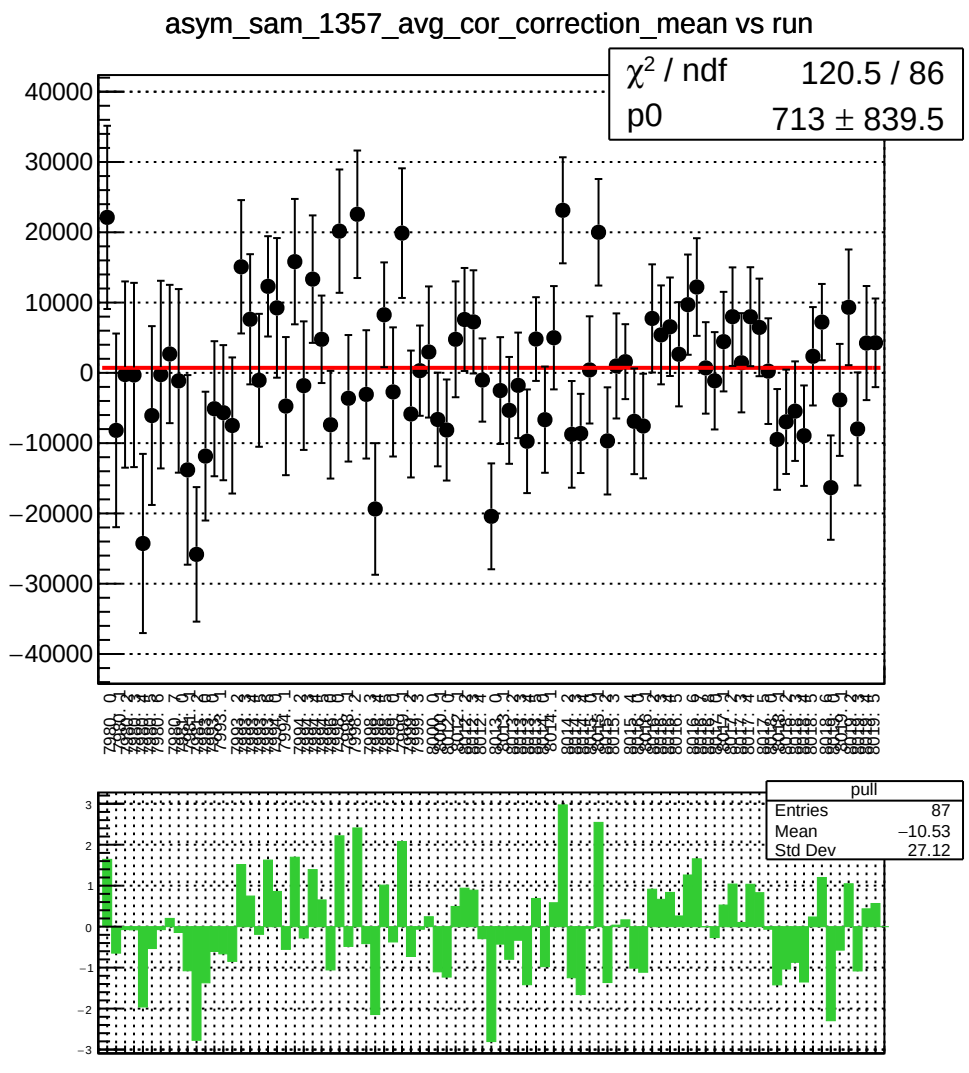

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 120.5 / 86
p0 713 ± 839.5
pull
Entries 87
Mean −10.53
Std Dev 27.13
pull1D
Entries 87
Mean −0.01929
Std Dev 1.177

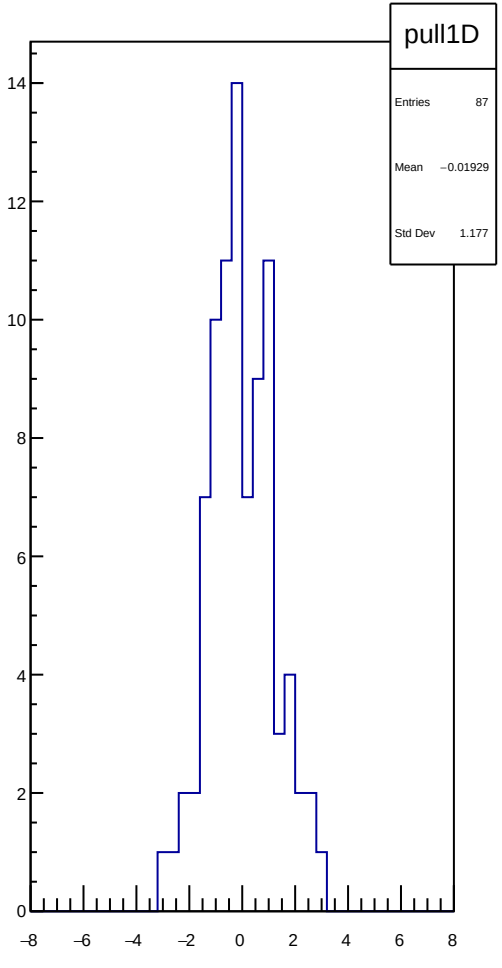

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 5.45e+04 / 86
p0 775.4 ± 0.5936
1300
1200
1100
1000
900
800
700
600

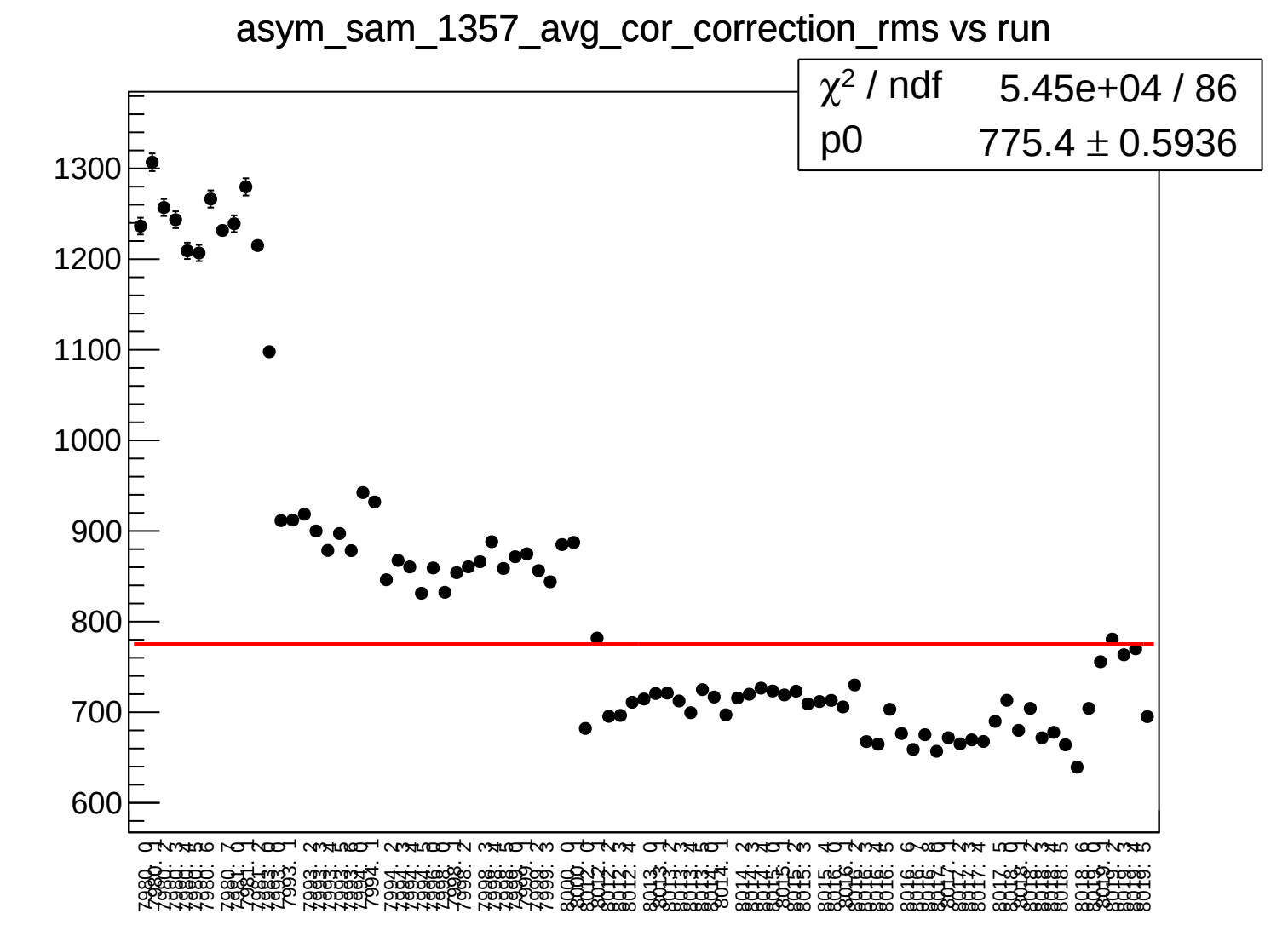

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 67.38 / 86
p0 −53.48 ± 105.3
pull
Entries 87
Mean −7.363
Std Dev 65.02

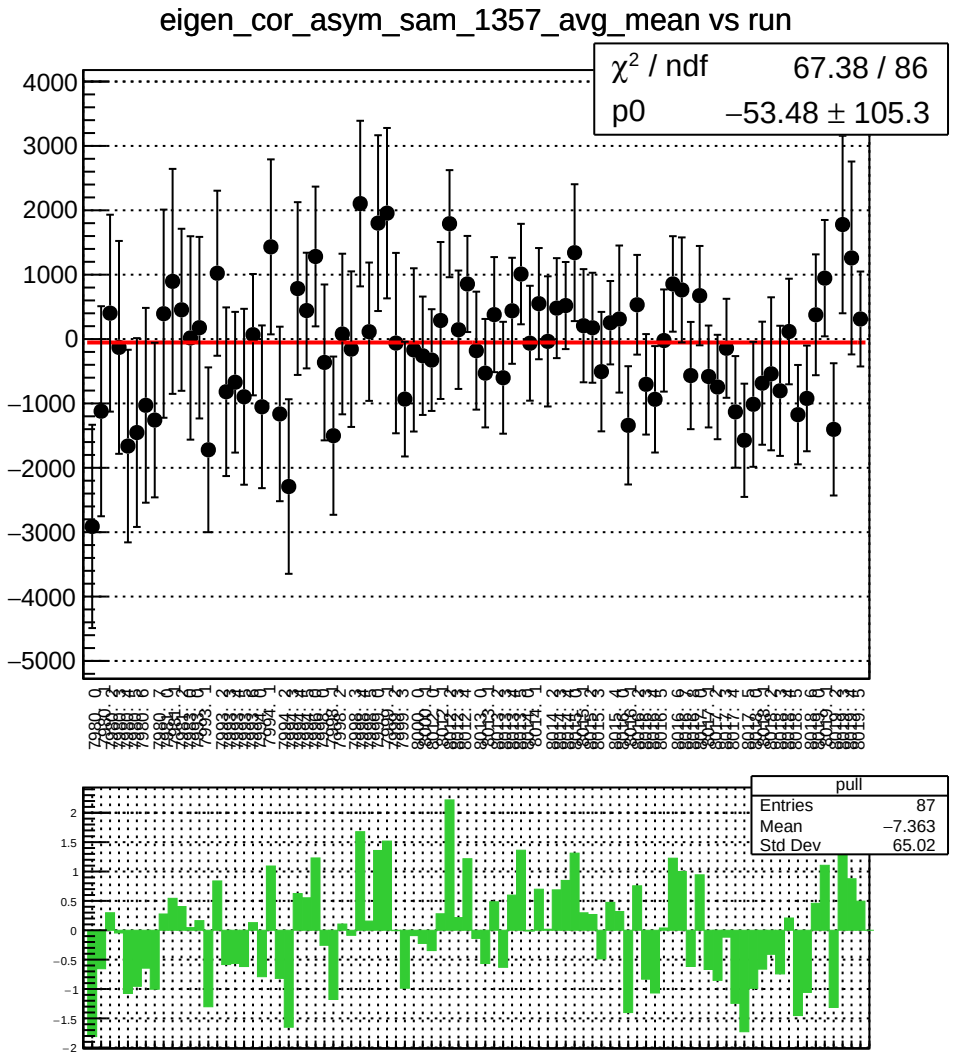

pull1D
Entries 87
Mean −0.02206
Std Dev 0.8798

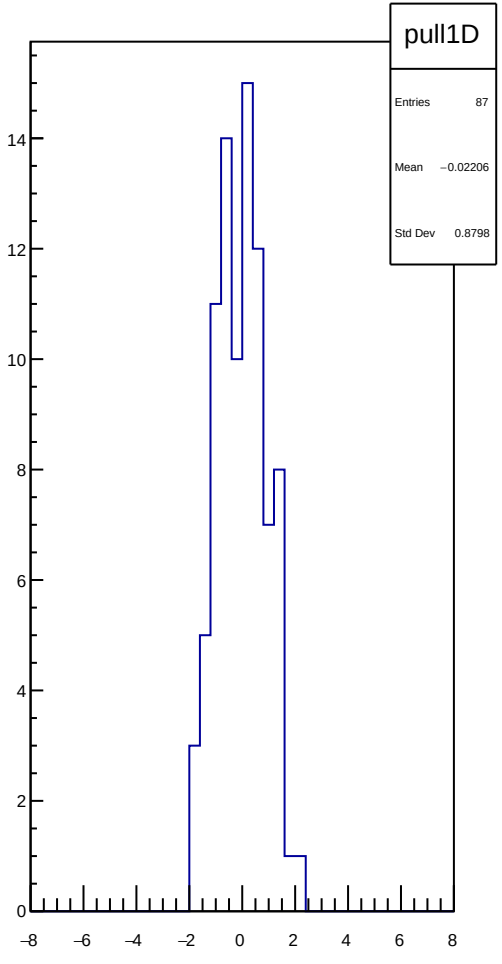

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 9.683e+04 / 86
p0 96.05 ± 0.07446
200
180
160
140
120
100
80
60

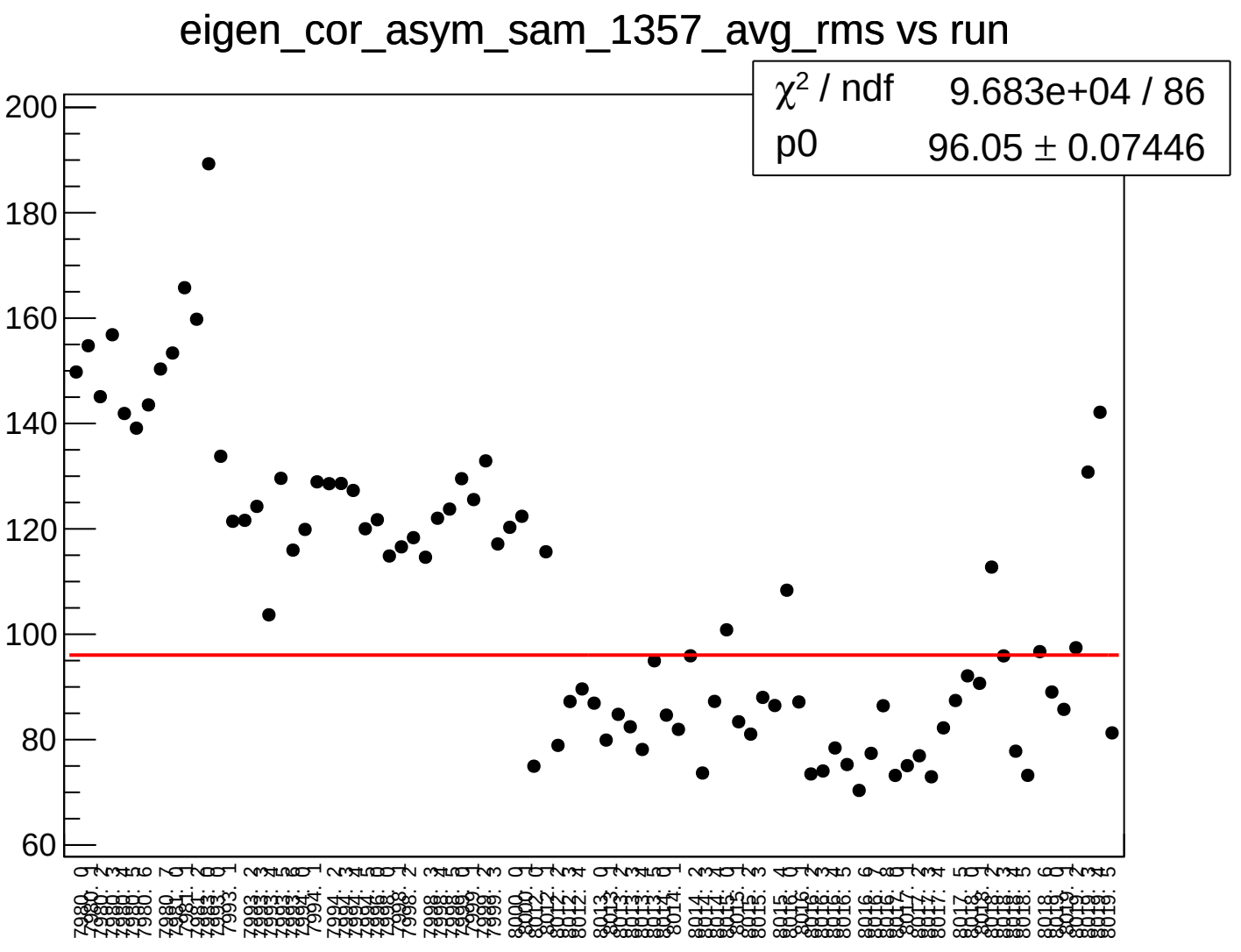

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 120.5 / 86
p0 713 ± 839.5
pull
Entries 87
Mean −10.53
Std Dev 27.12

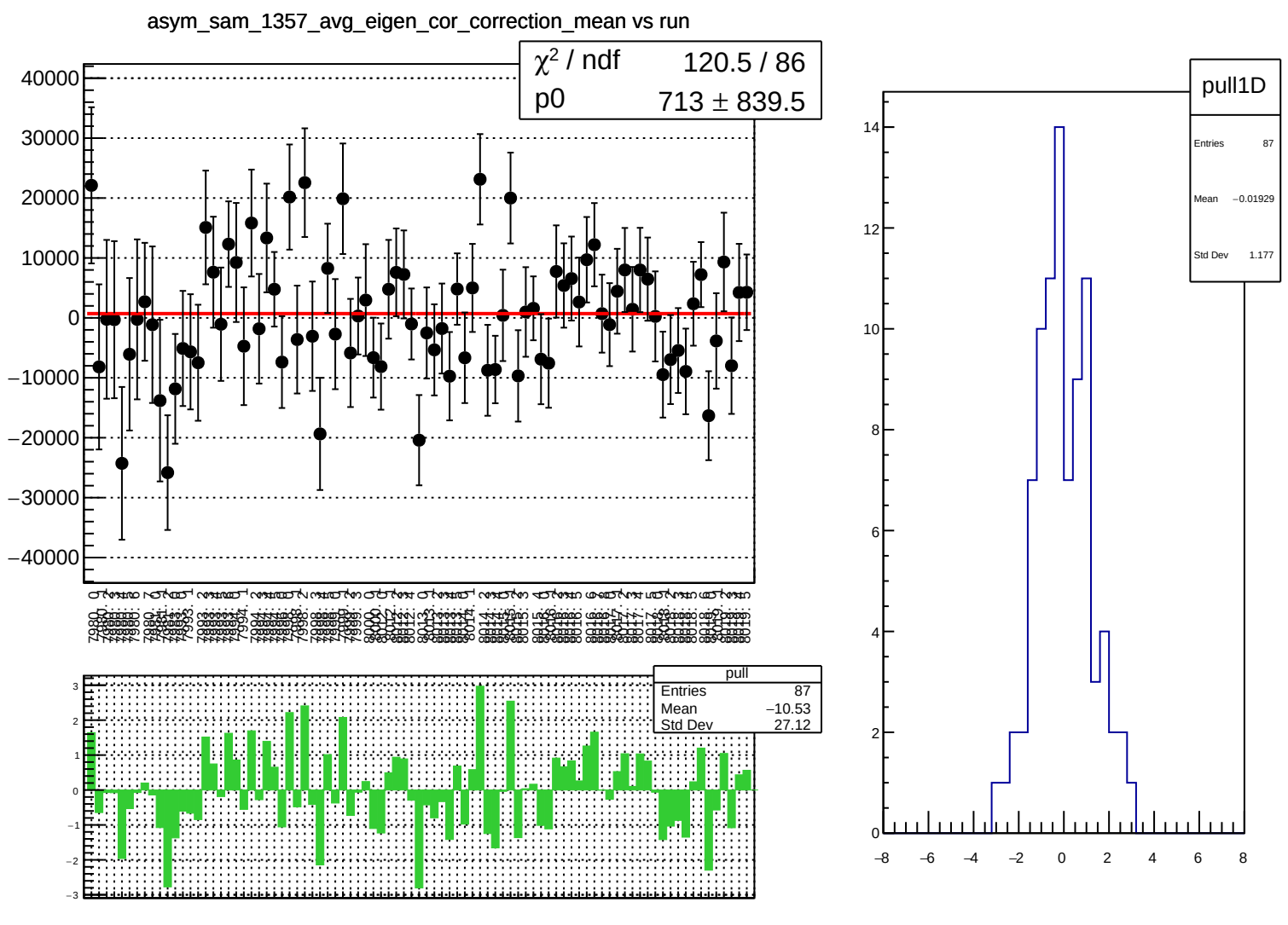

pull1D
Entries 87
Mean −0.01929
Std Dev 1.177

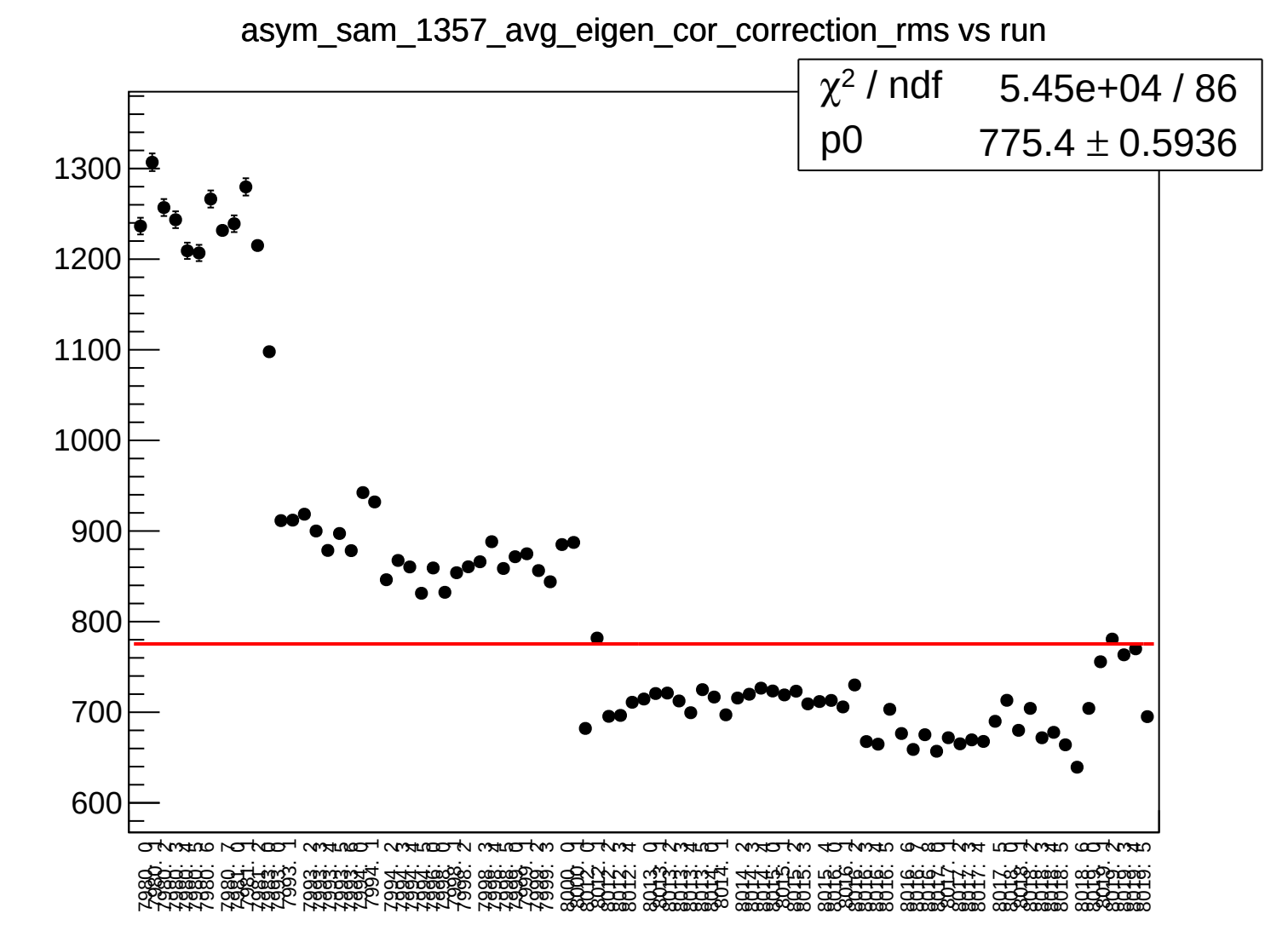

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 5.45e+04 / 86
p0 775.4 ± 0.5936
1300
1200
1100
1000
900
800
700
600

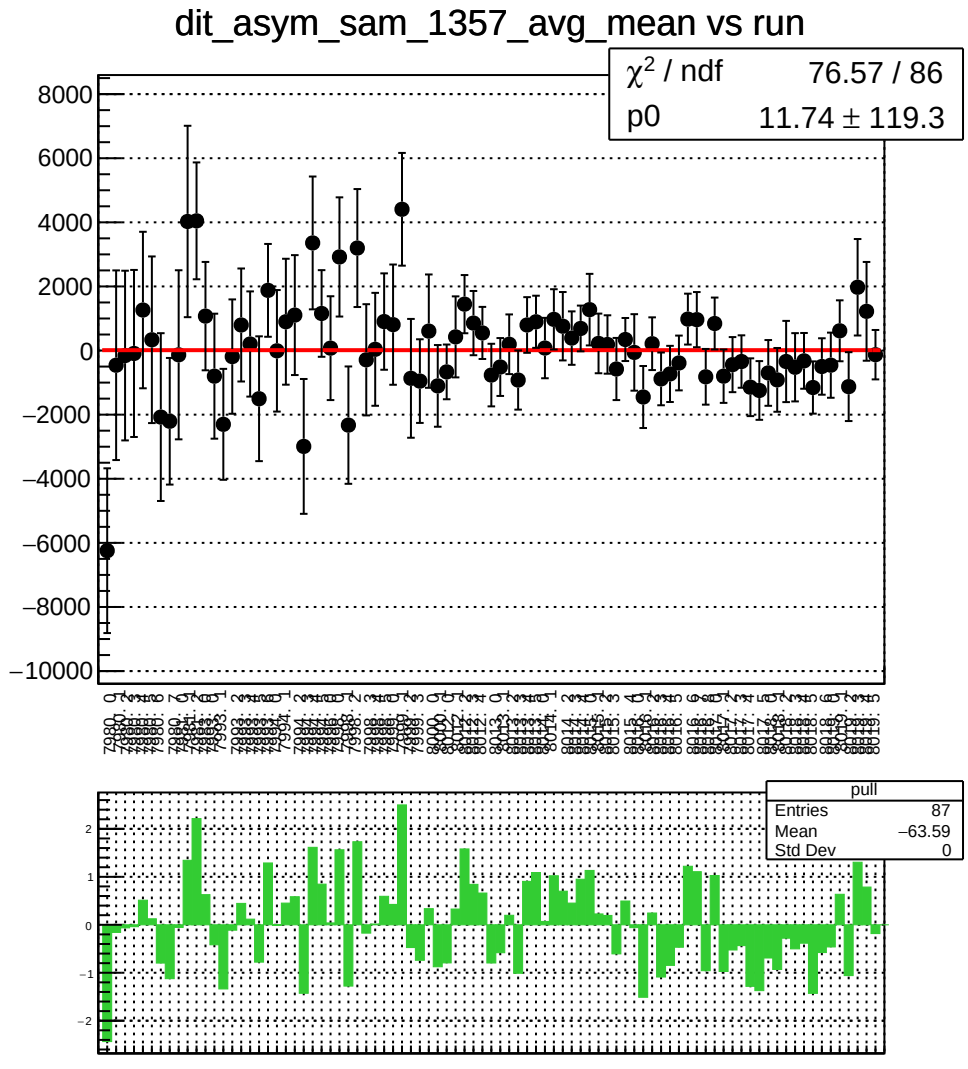

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 67.38 / 86
p0 −53.48 ± 105.3
pull
Entries 87
Mean −7.363
Std Dev 65.02

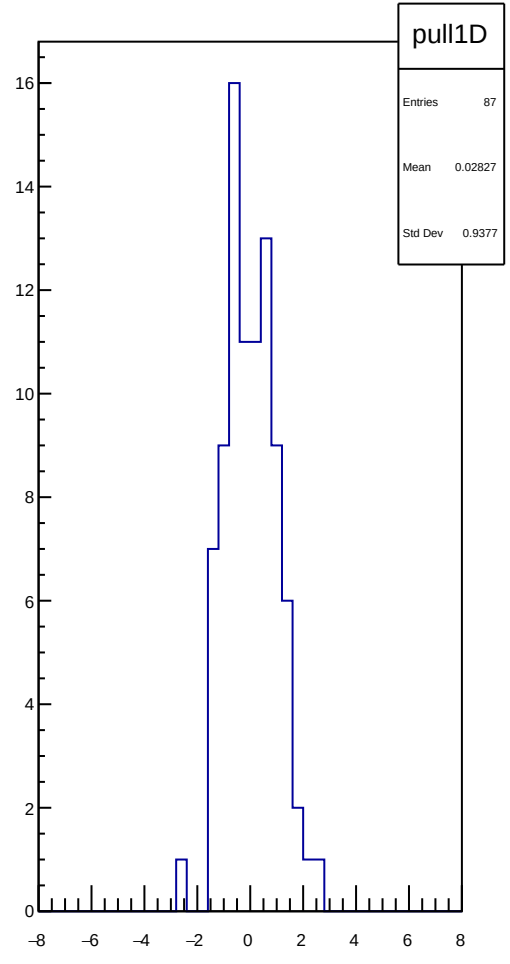

pull1D
Entries 87
Mean −0.02206
Std Dev 0.8798

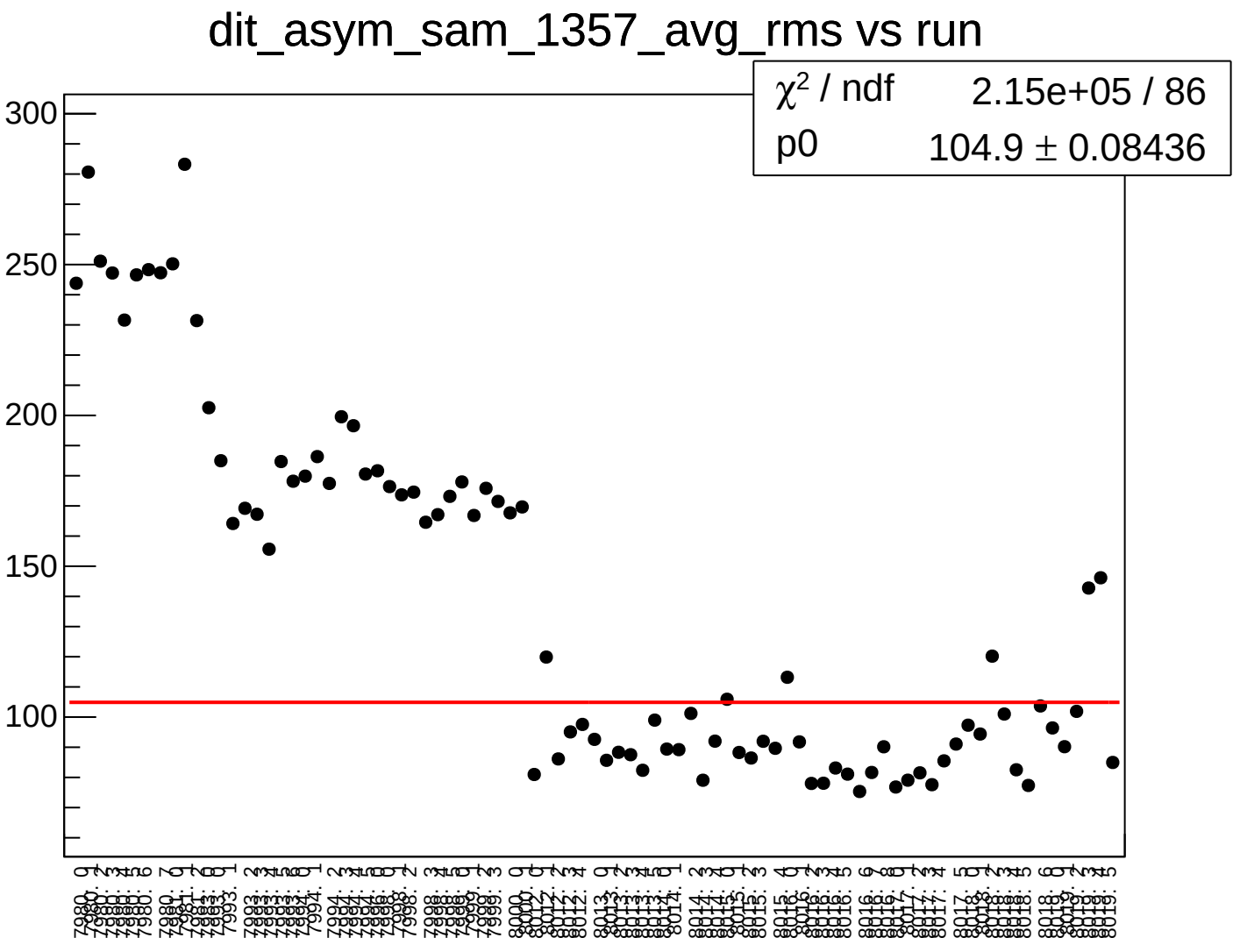

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 9.683e+04 / 86
p0 96.05 ± 0.07446
200
180
160
140
120
100
80
60

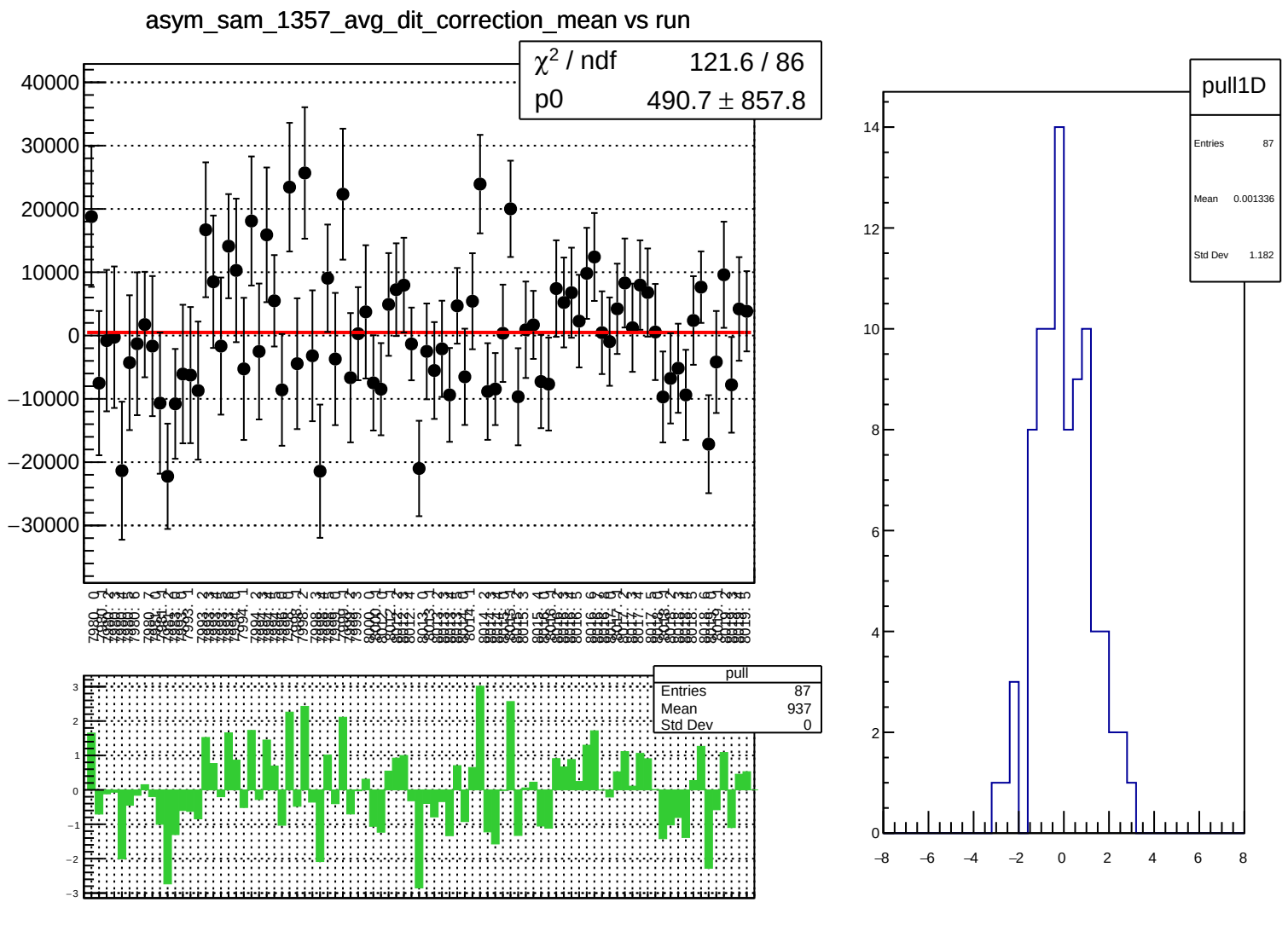

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 120.5 / 86
p0 713 ± 839.5
pull
Entries 87
Mean −10.53
Std Dev 27.12
pull1D
Entries 87
Mean −0.01929
Std Dev 1.177

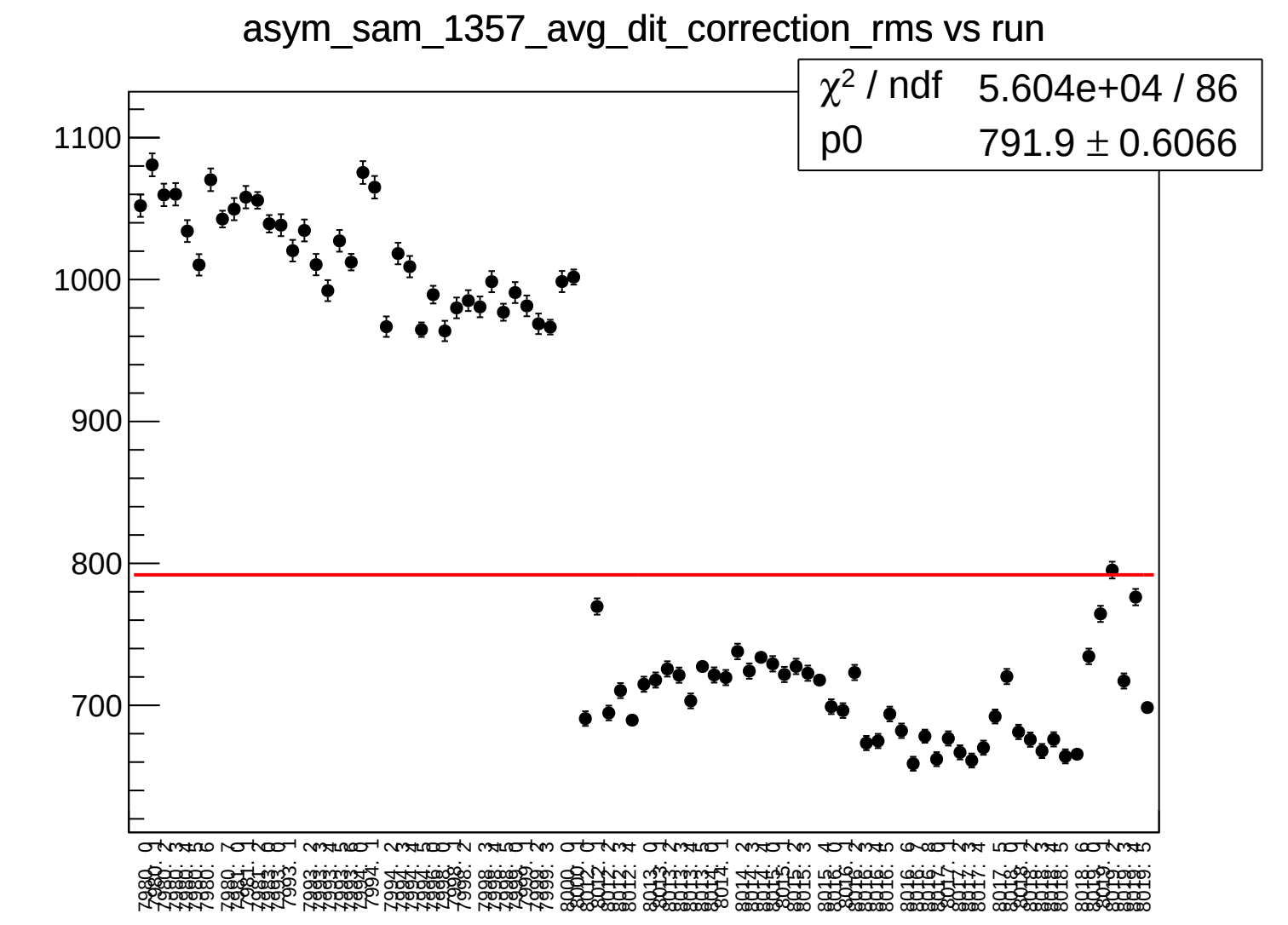

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.45e+04 / 86
p0 775.4 ± 0.5936
1300
1200
1100
1000
900
800
700
600

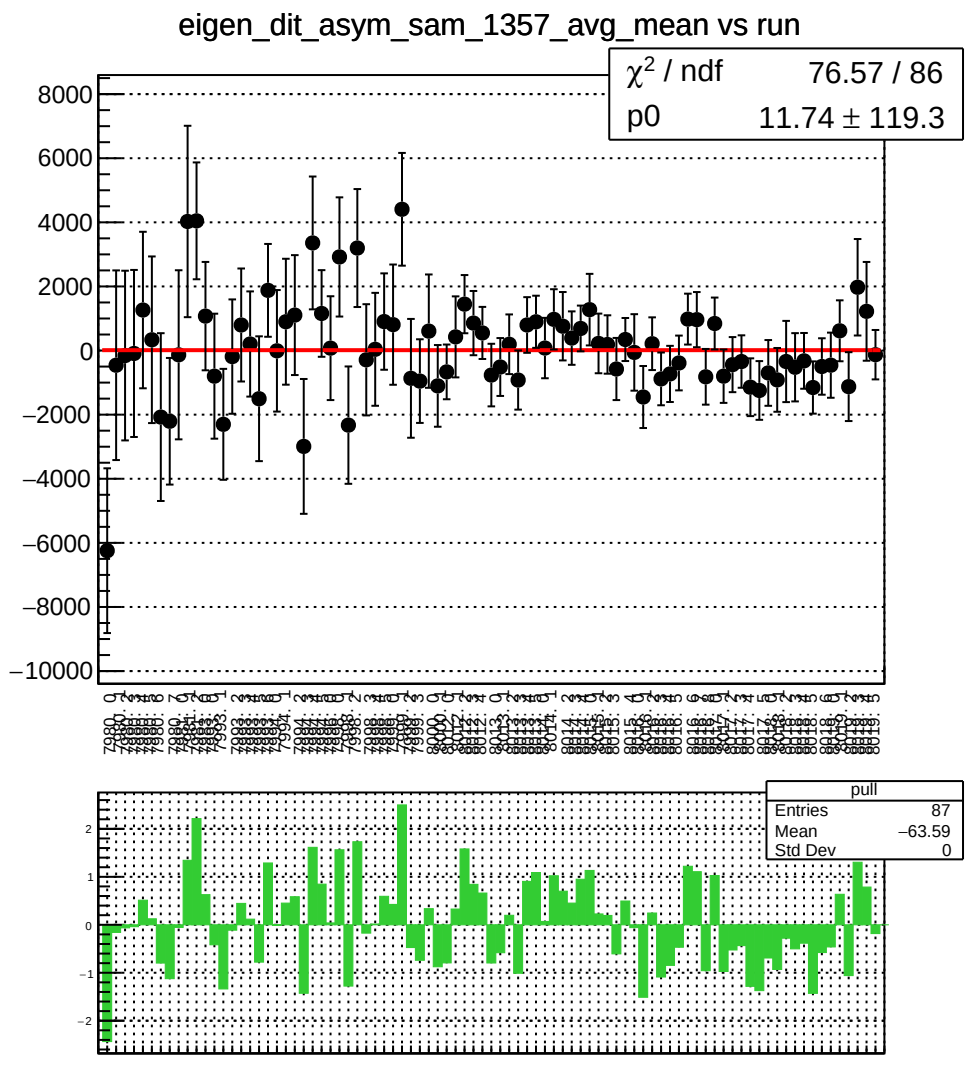

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 76.57 / 86
p0 11.74 ± 119.3
pull
Entries 87
Mean −63.59
Std Dev 0

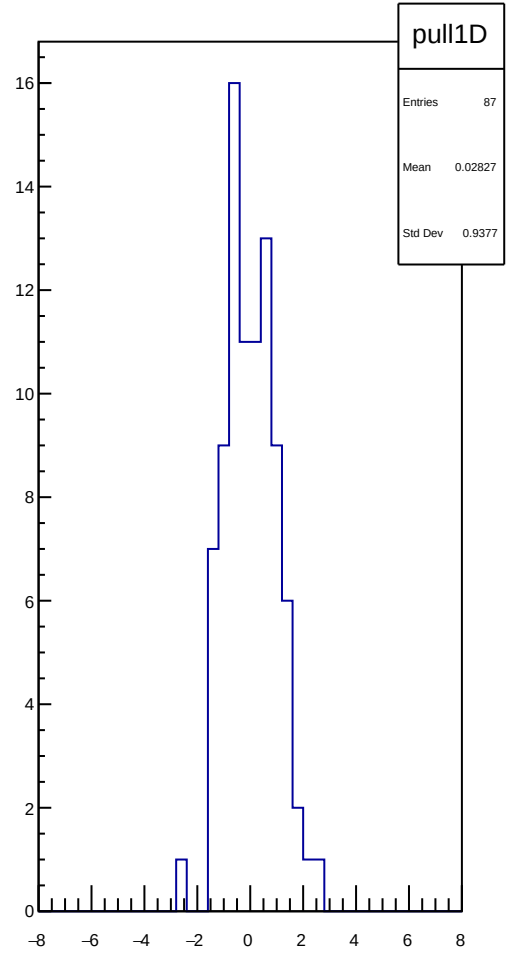

pull1D
Entries 87
Mean 0.02827
Std Dev 0.9377

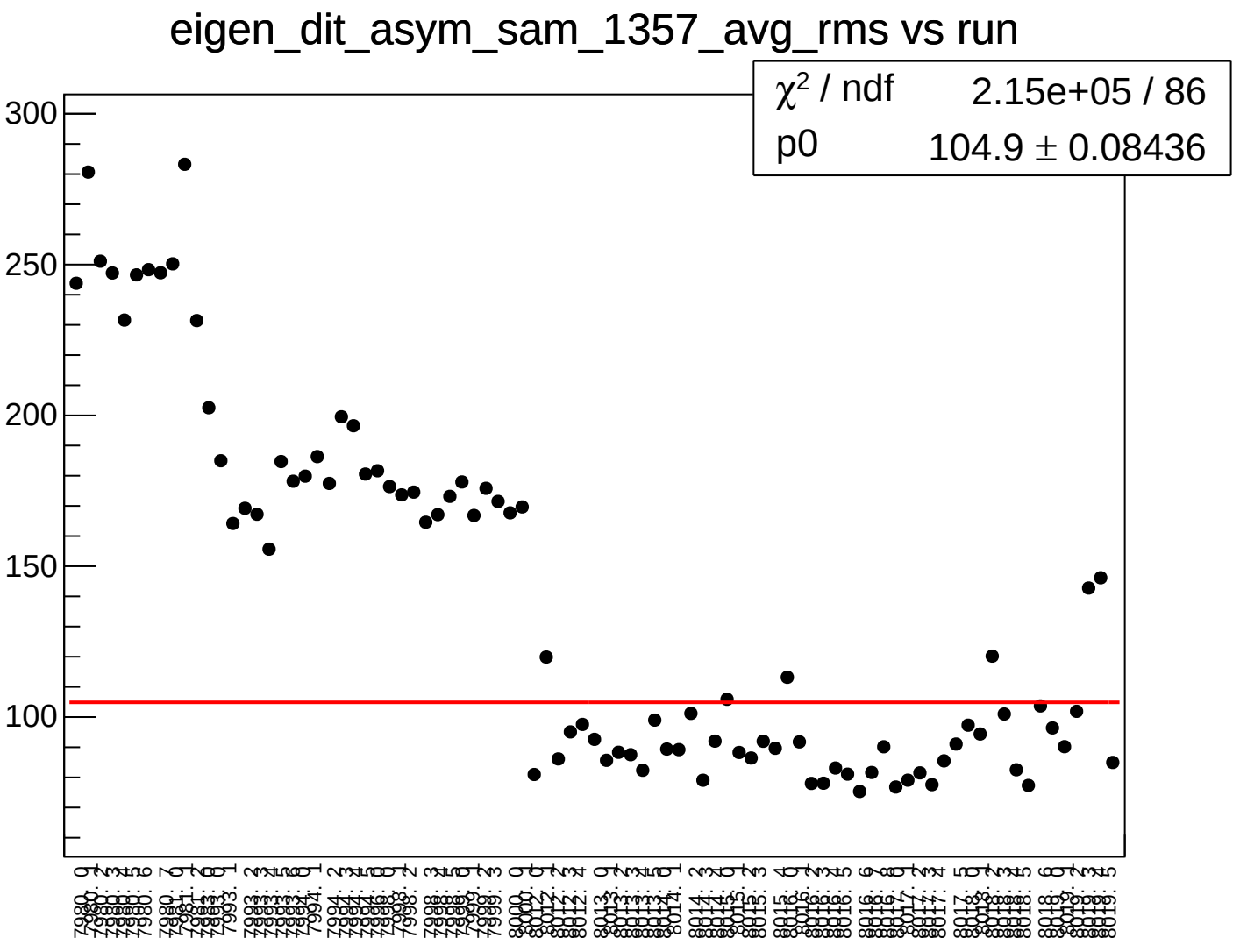

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.15e+05 / 86
p0 104.9 ± 0.08436
300
250
200
150
100

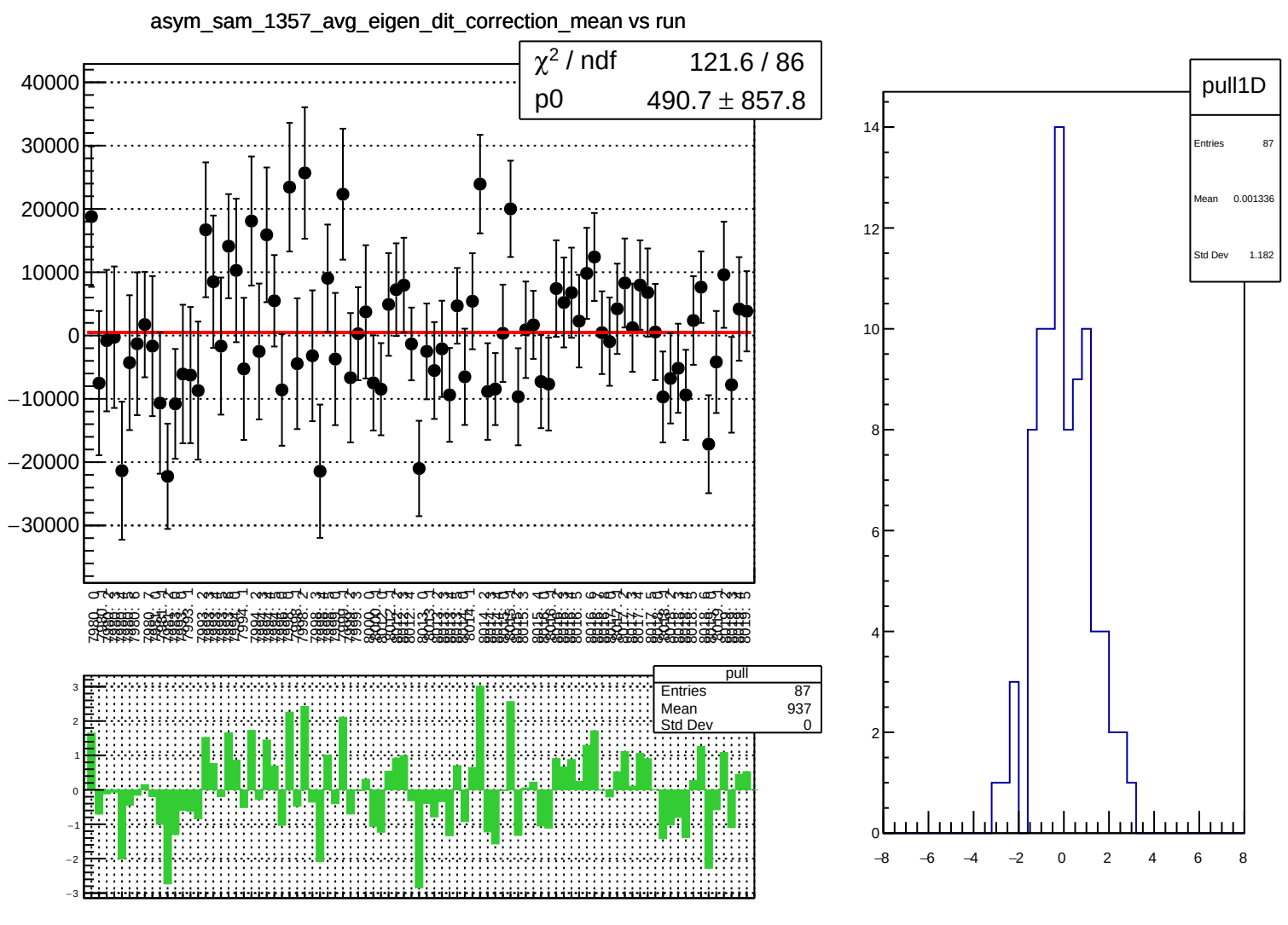

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 121.6 / 86
p0 490.7 ± 857.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 937
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.001336
Std Dev 1.182
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

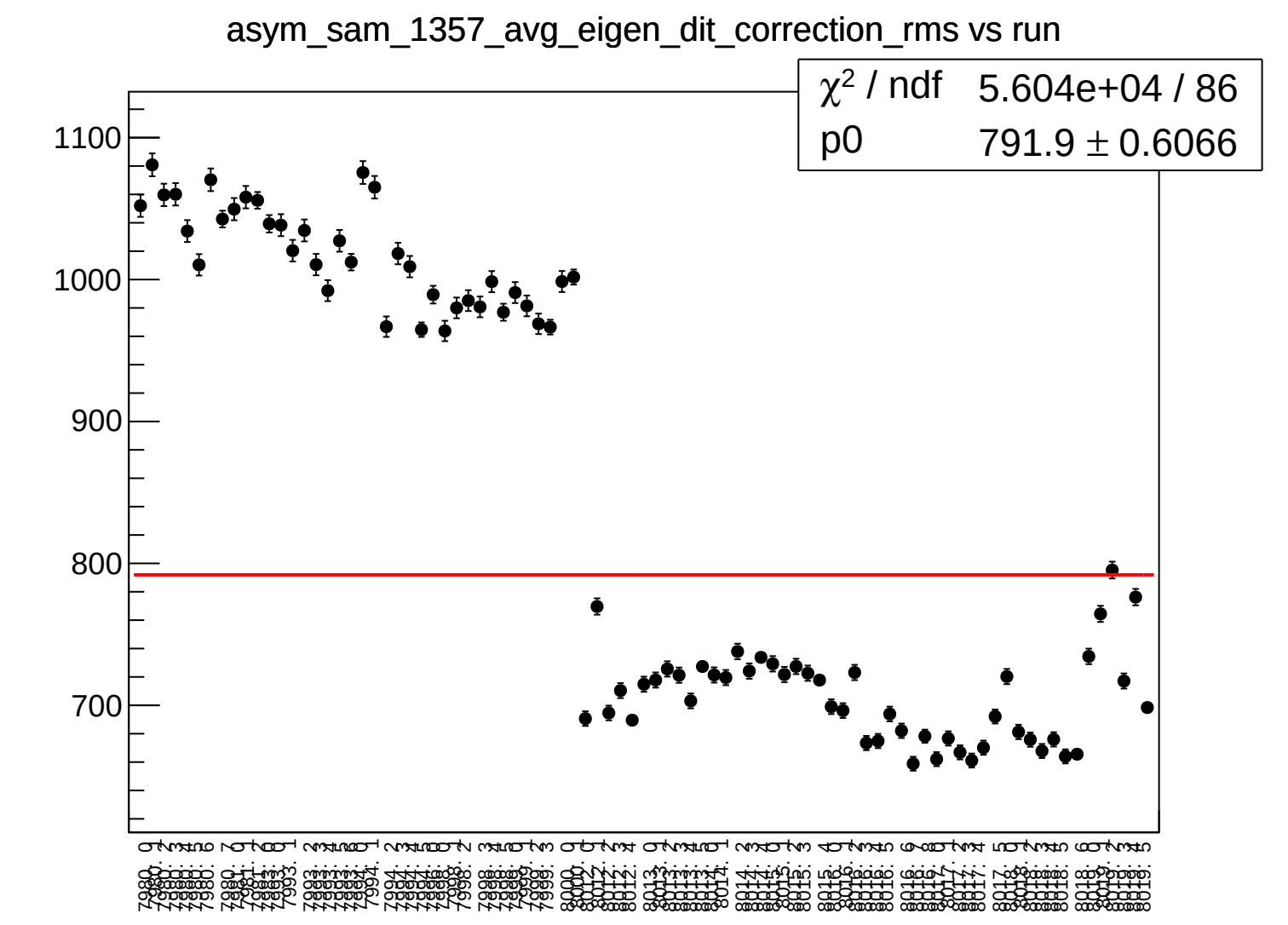

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 5.604e+04 / 86
p0 791.9 ± 0.6066
1100
1000
900
800
700

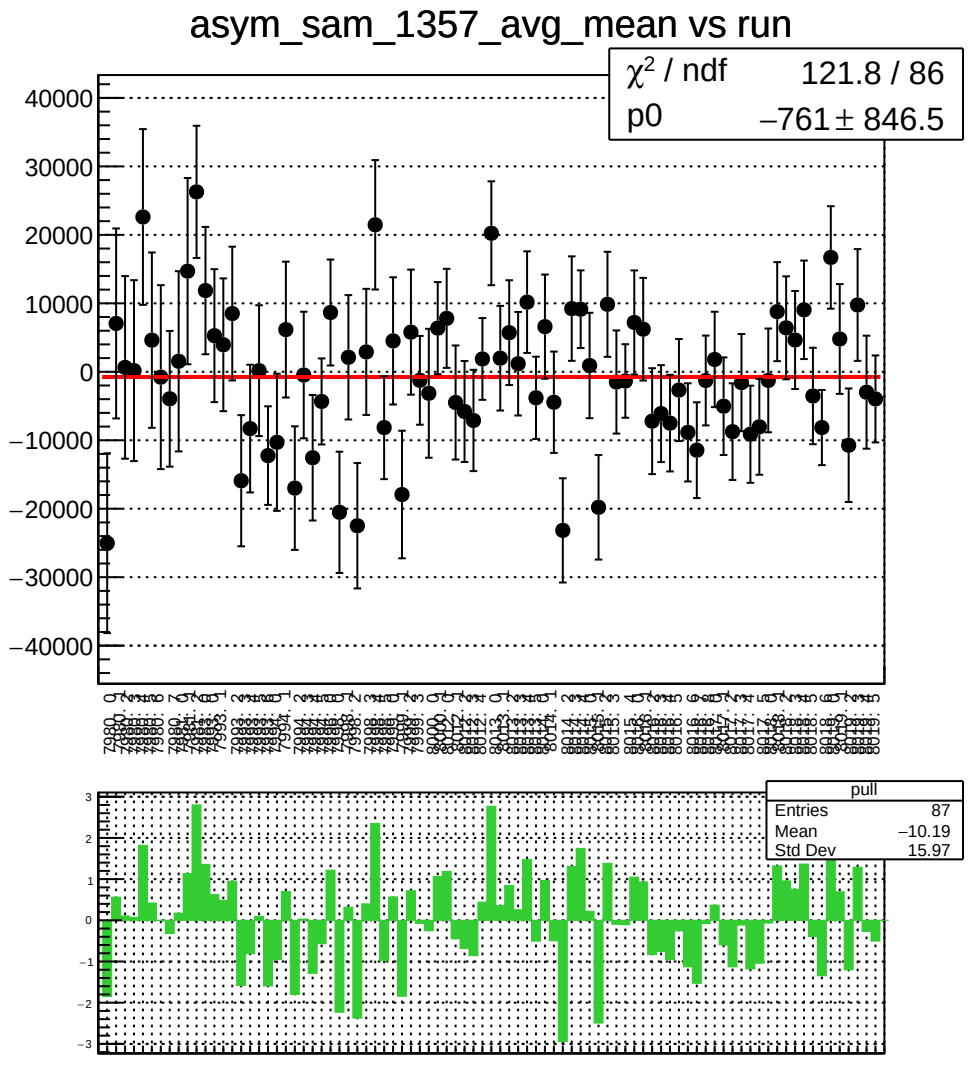

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 76.57 / 86
p0 11.74 ± 119.3
pull
Entries 87
Mean −63.59
Std Dev 0

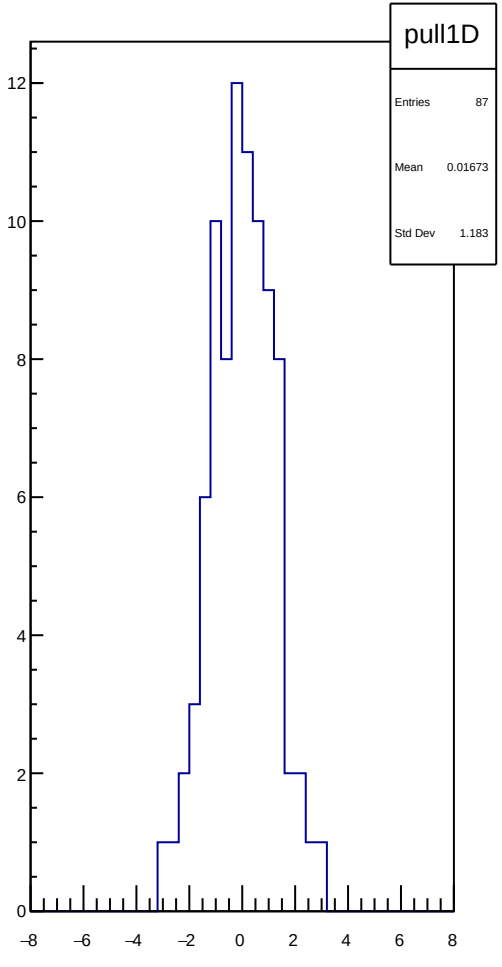

pull1D
Entries 87
Mean 0.02827
Std Dev 0.9377

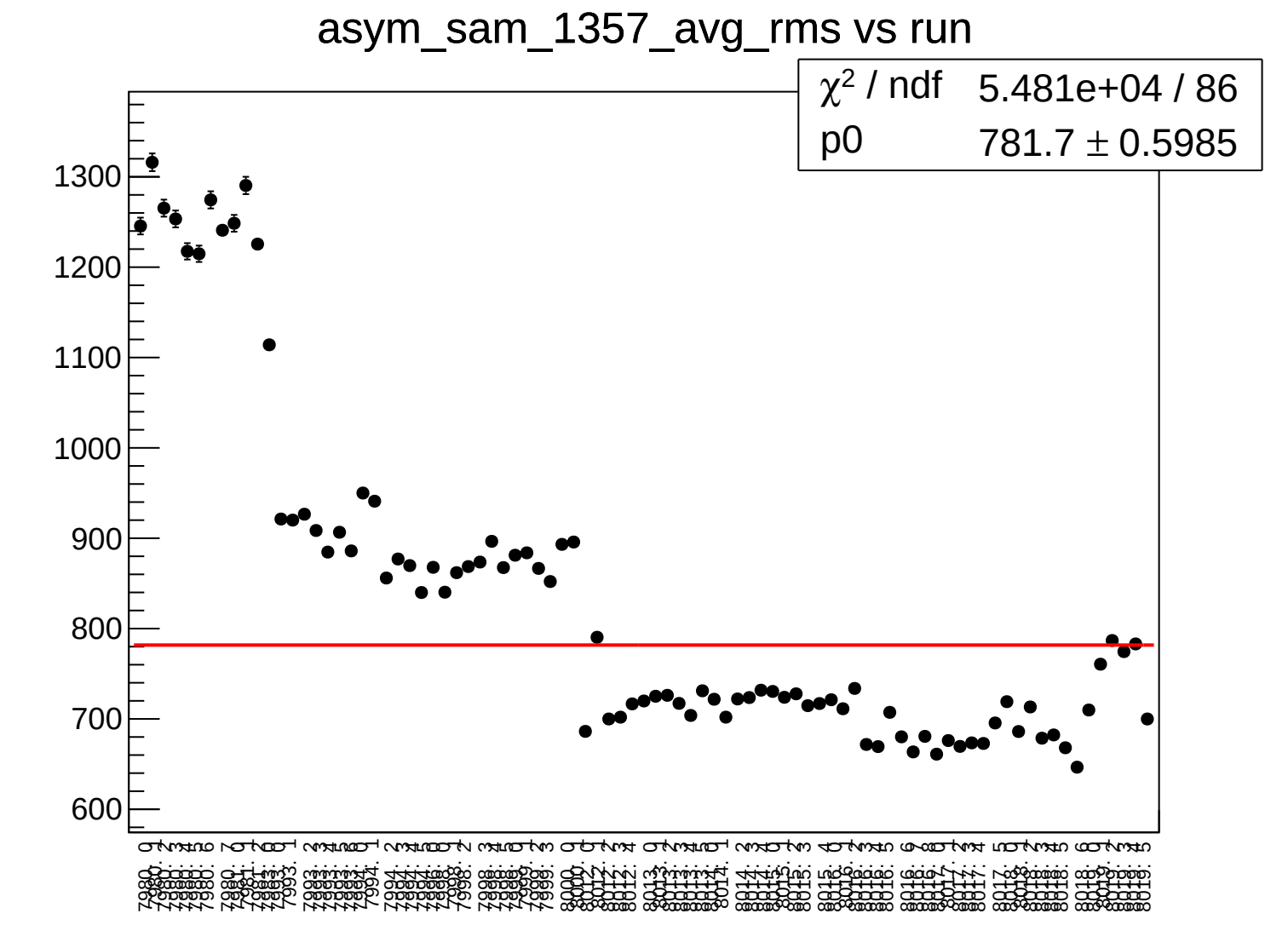

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.15e+05 / 86
p0 104.9 ± 0.08436
300
250
200
150
100

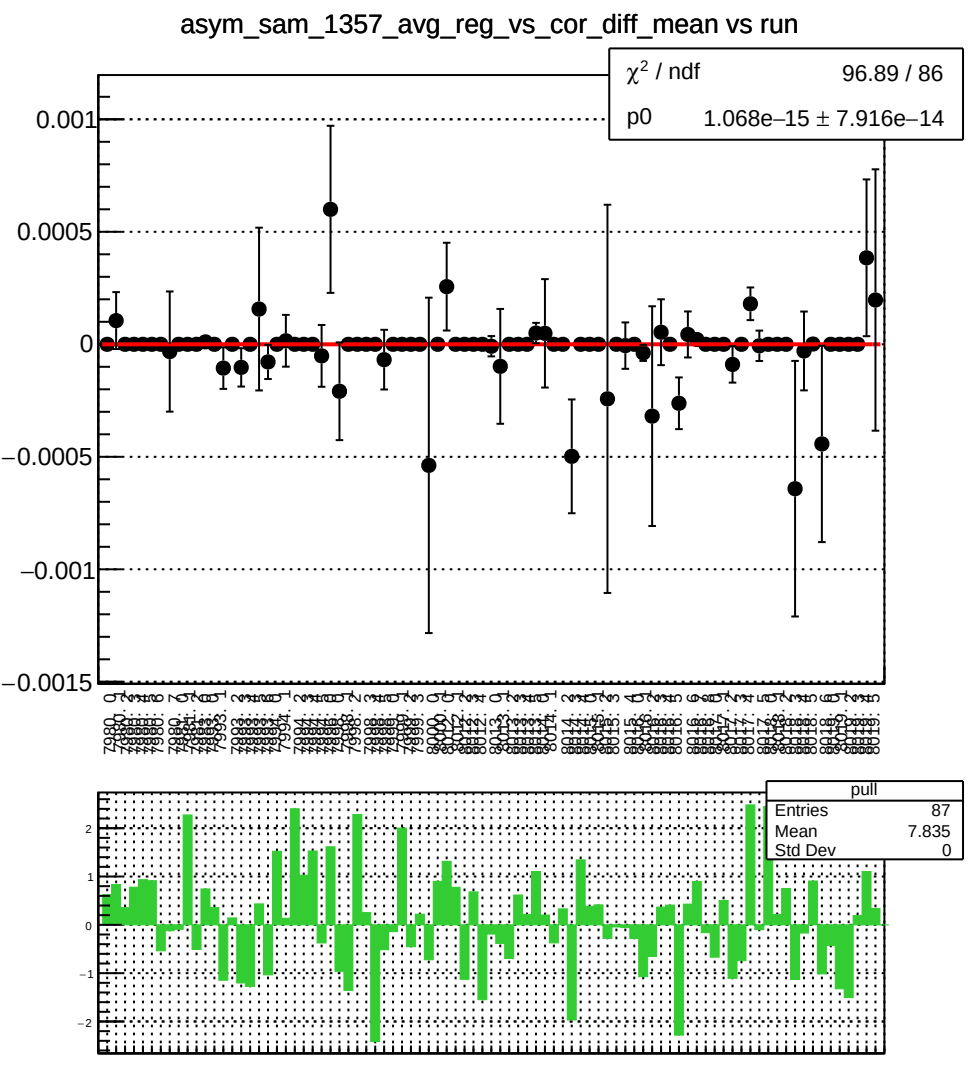

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 121.6 / 86
p0 490.7 ± 857.8
pull
Entries 87
Mean 937
Std Dev 0
pull1D
Entries 87
Mean 0.001336
Std Dev 1.182

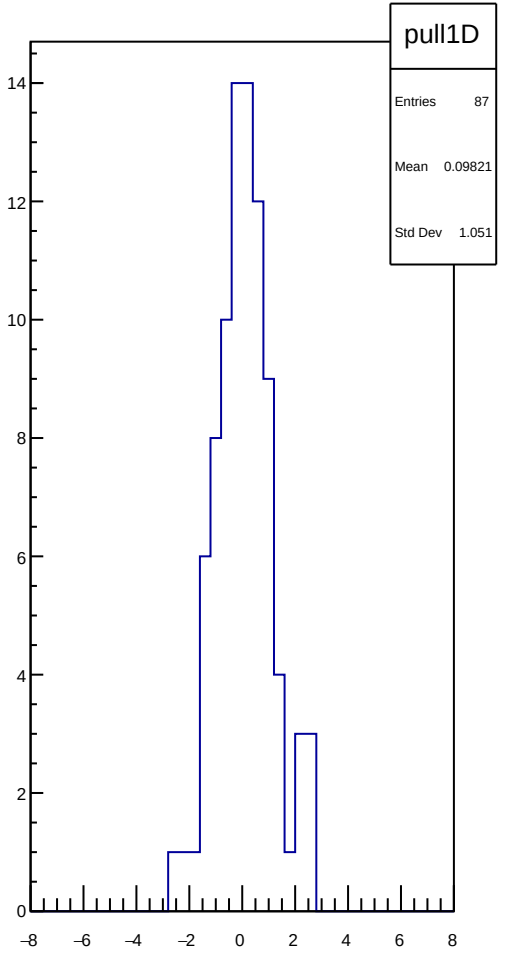

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.604e+04 / 86
p0 791.9 ± 0.6066
1100
1000
900
800
700

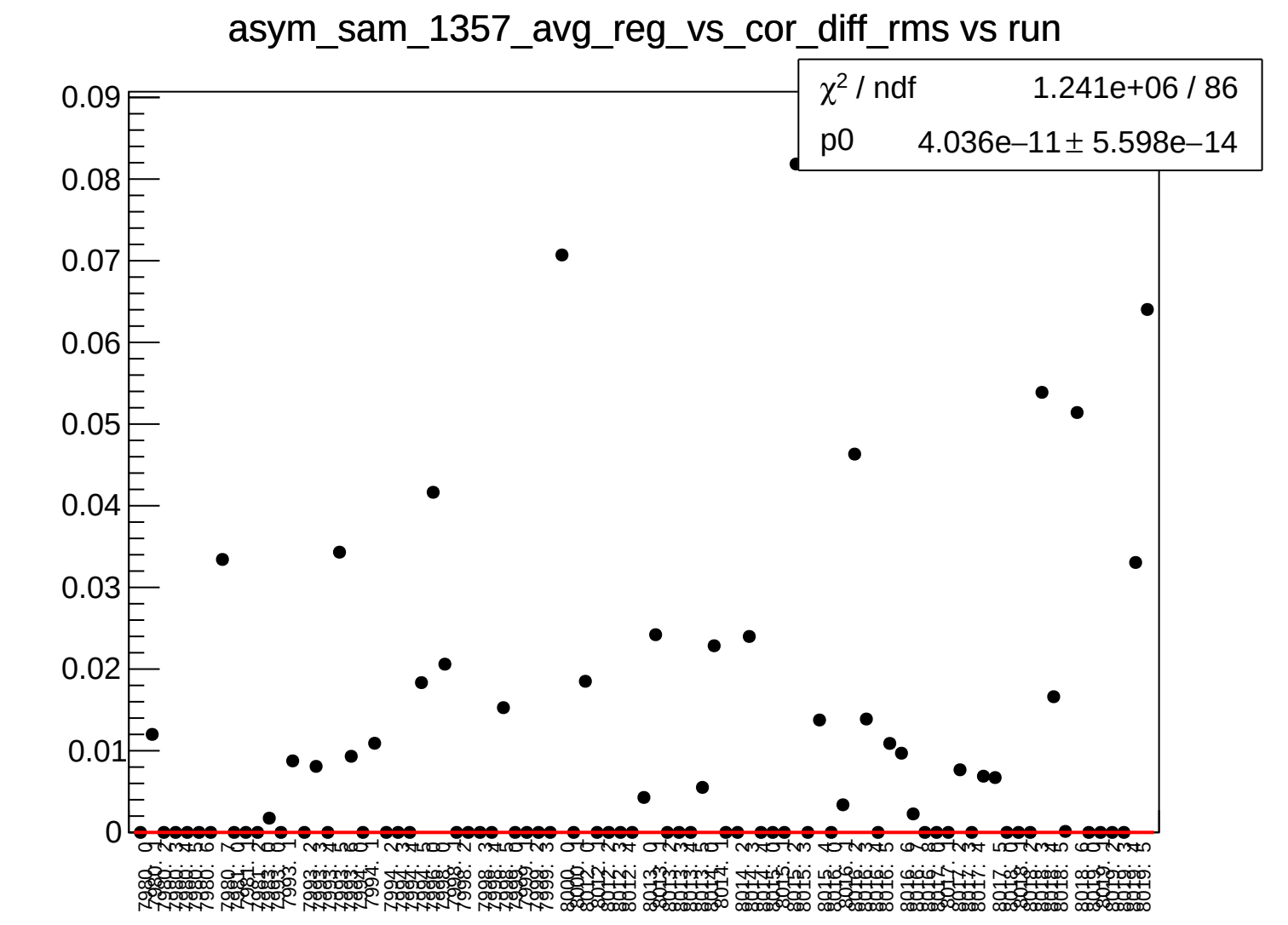

asym_sam_1357_avg_mean vs run
χ² / ndf 121.8 / 86
p0 −761 ± 846.5
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −10.19
Std Dev 15.97
3
2
1
0
−1
−2
−3

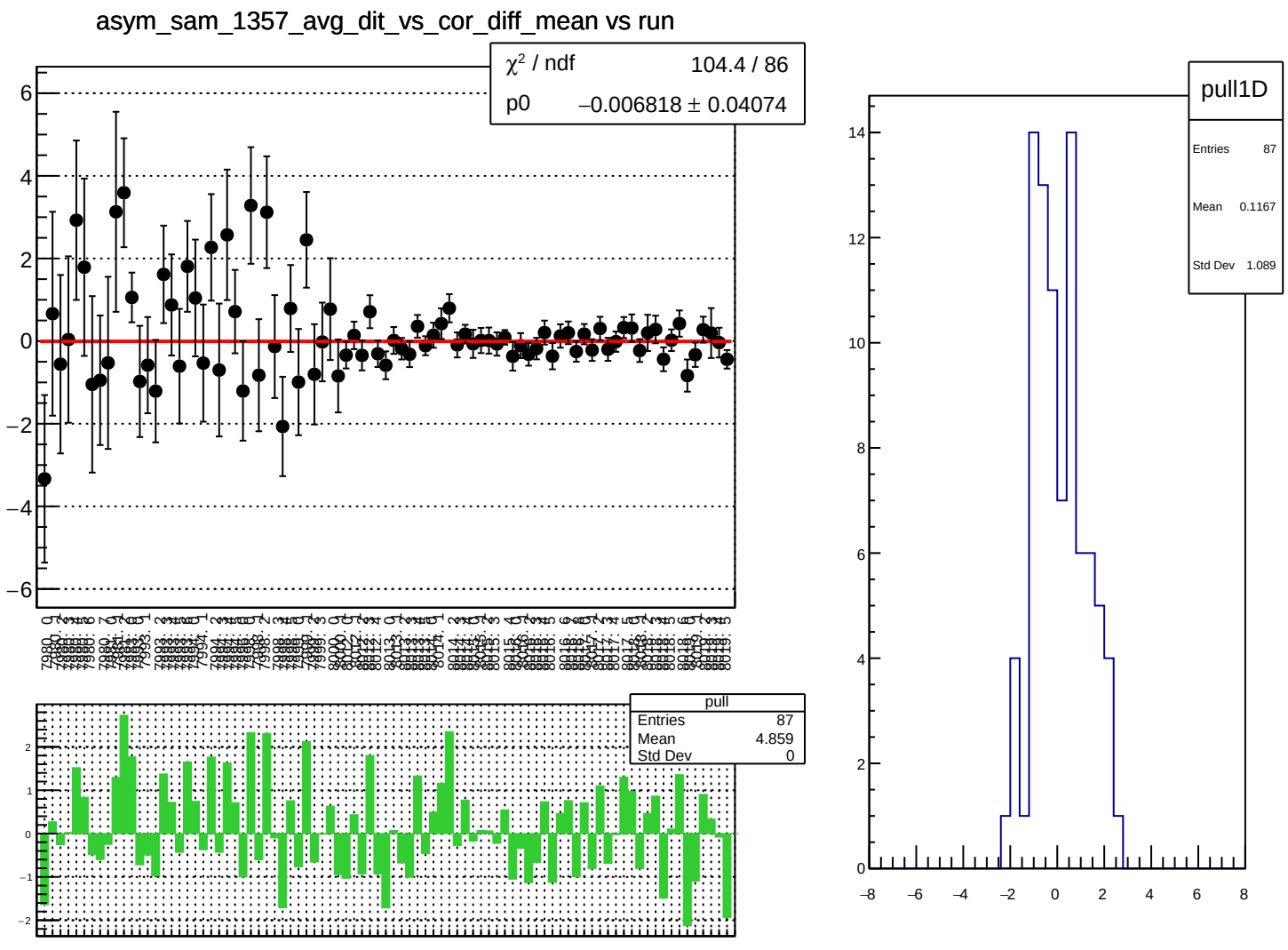

pull1D
Entries 87
Mean 0.01673
Std Dev 1.183
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

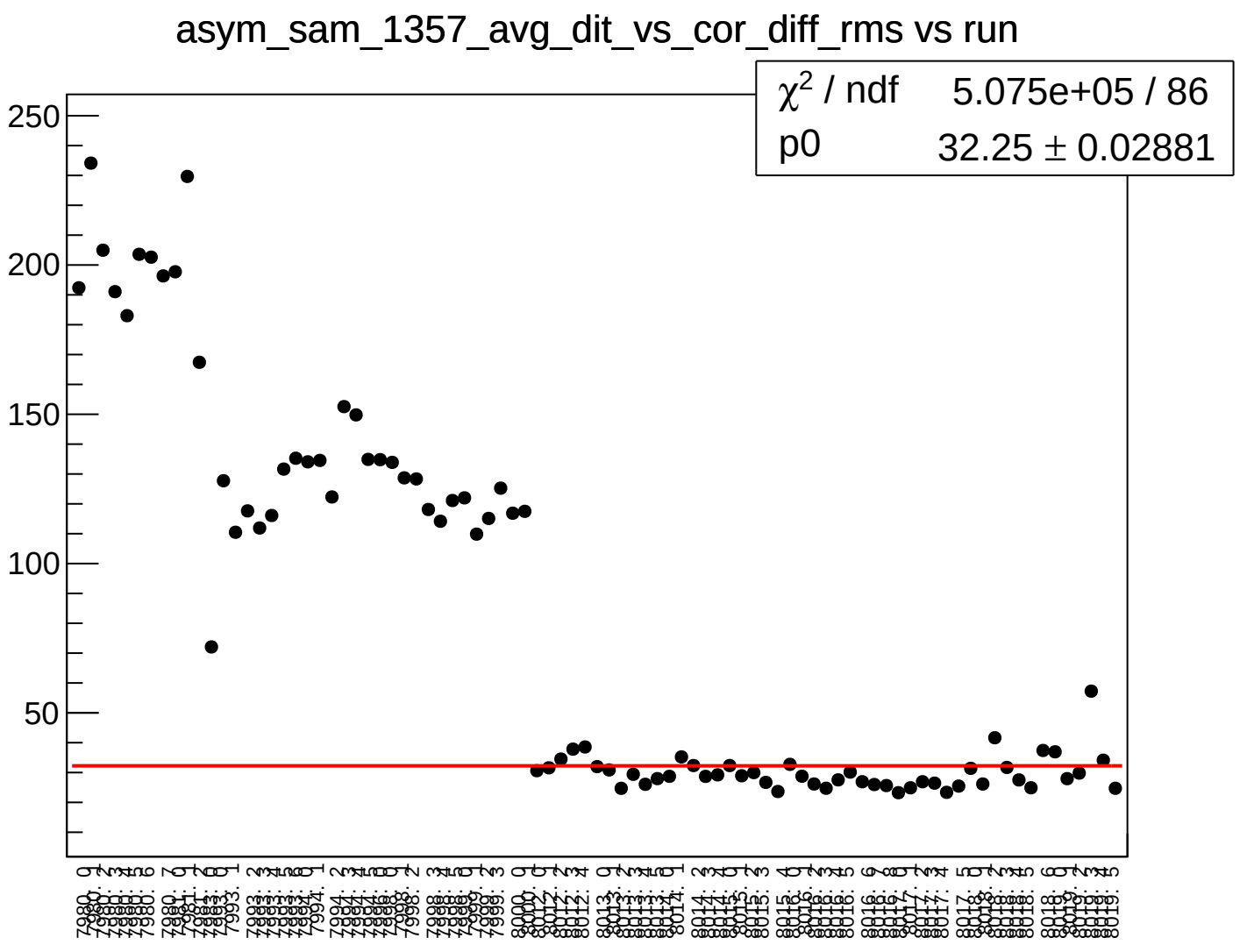

asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.481e+04 / 86
p0 781.7 ± 0.5985
1300
1200
1100
1000
900
800
700
600

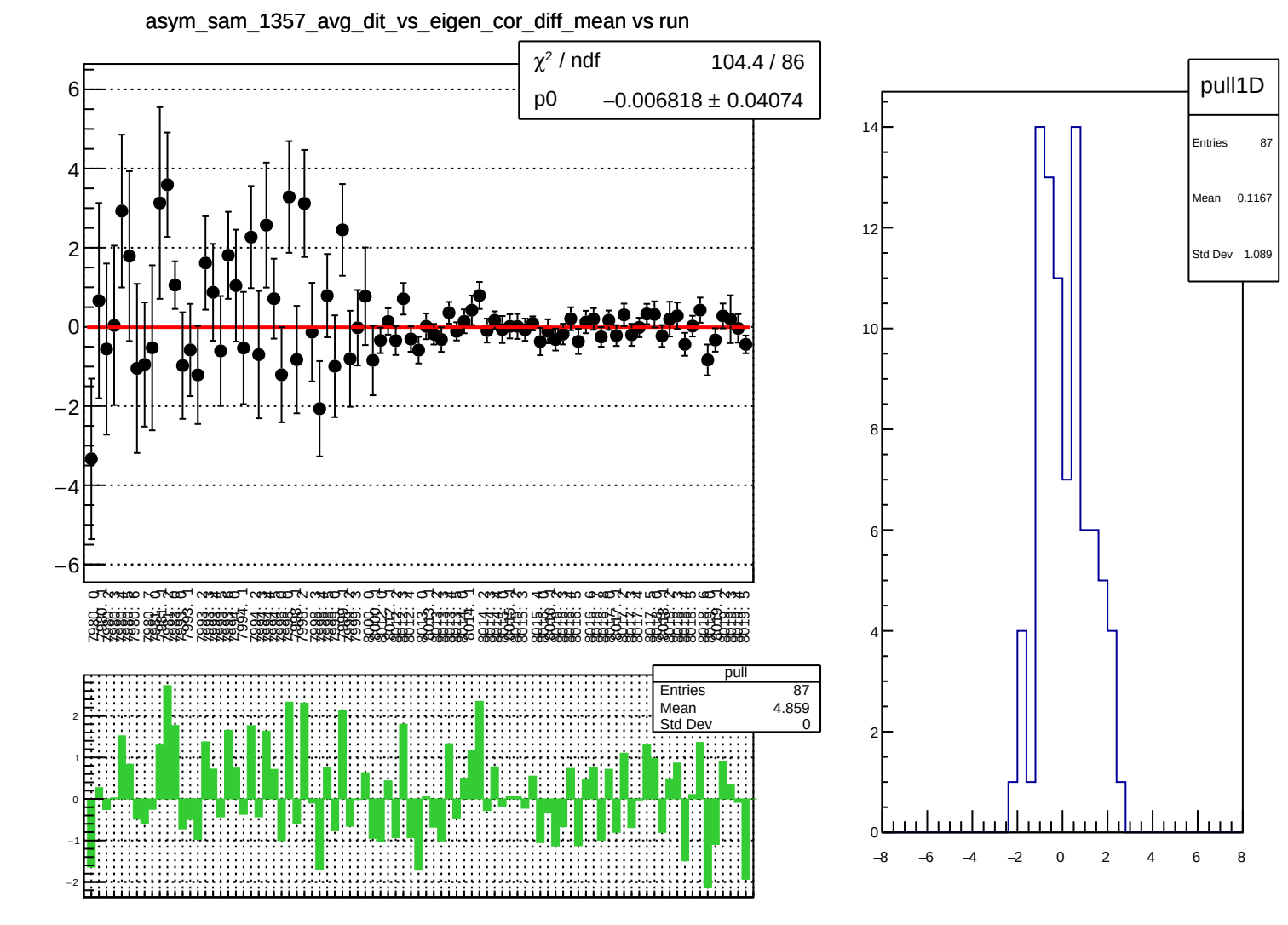

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.89 / 86
p0 1.068e−15 ± 7.916e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 87
Mean 7.835
Std Dev 0
2
1
0
−1
−2

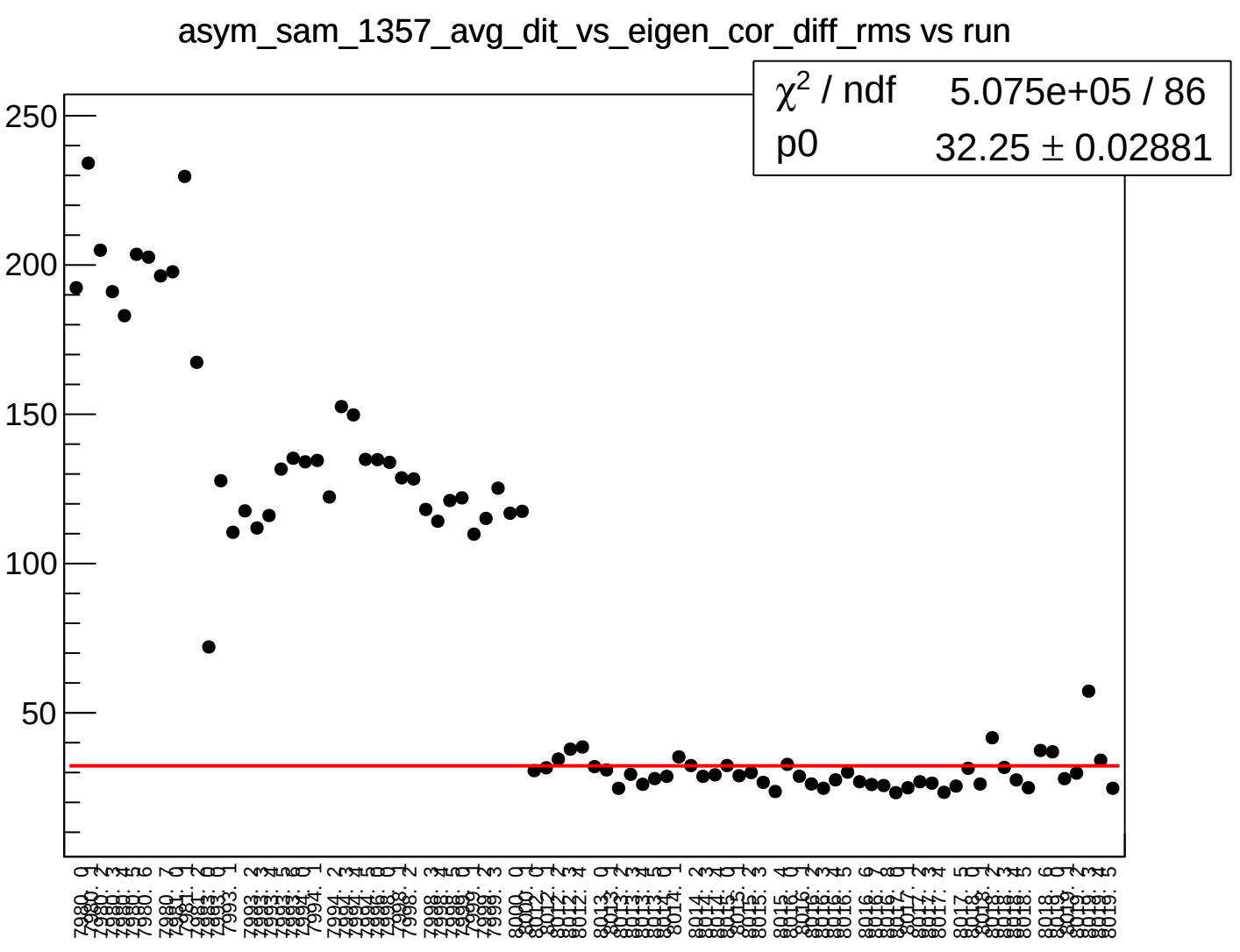

pull1D
Entries 87
Mean 0.09821
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

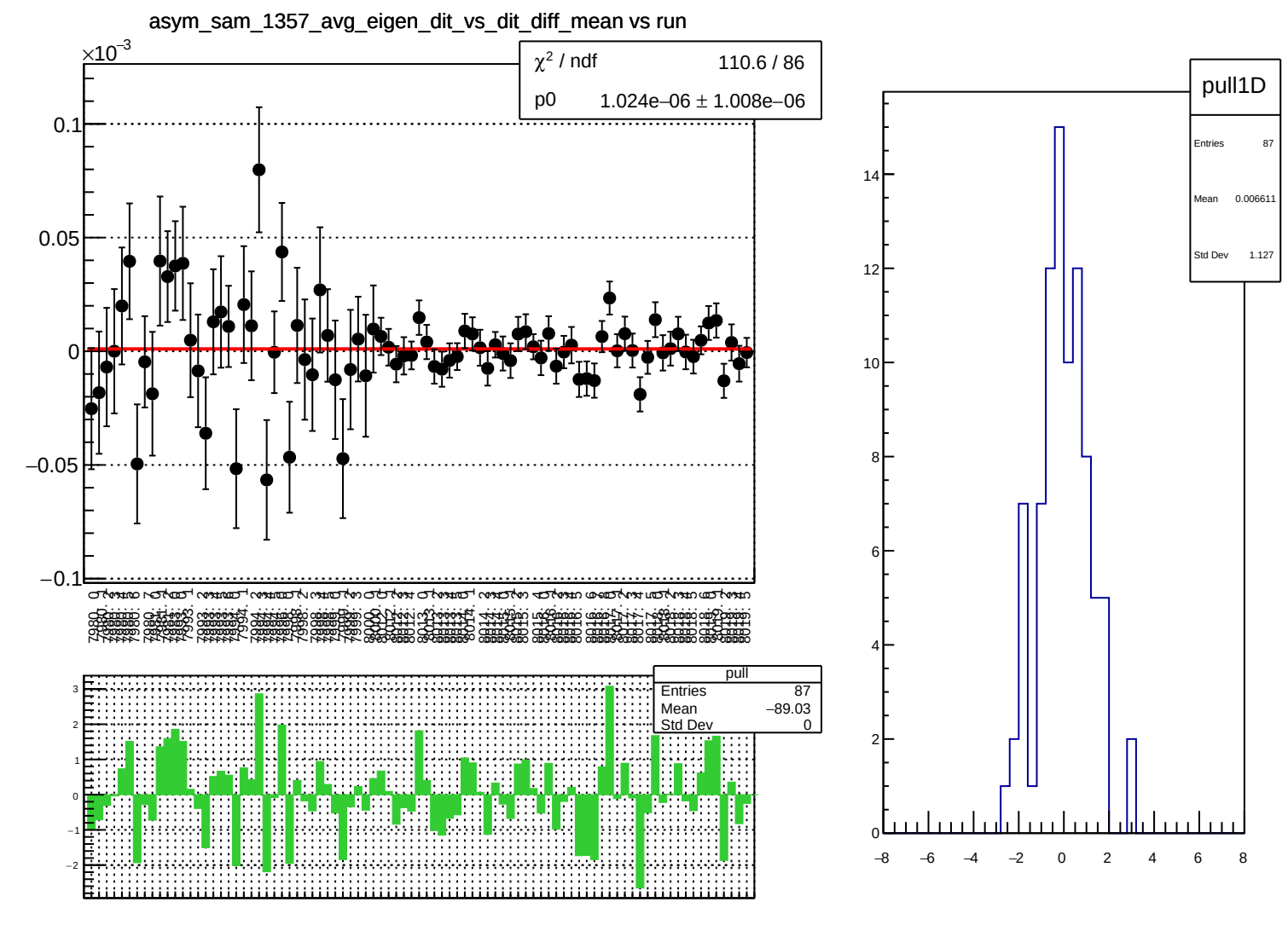

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.241e+06 / 86
p0 4.036e−11 ± 5.598e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

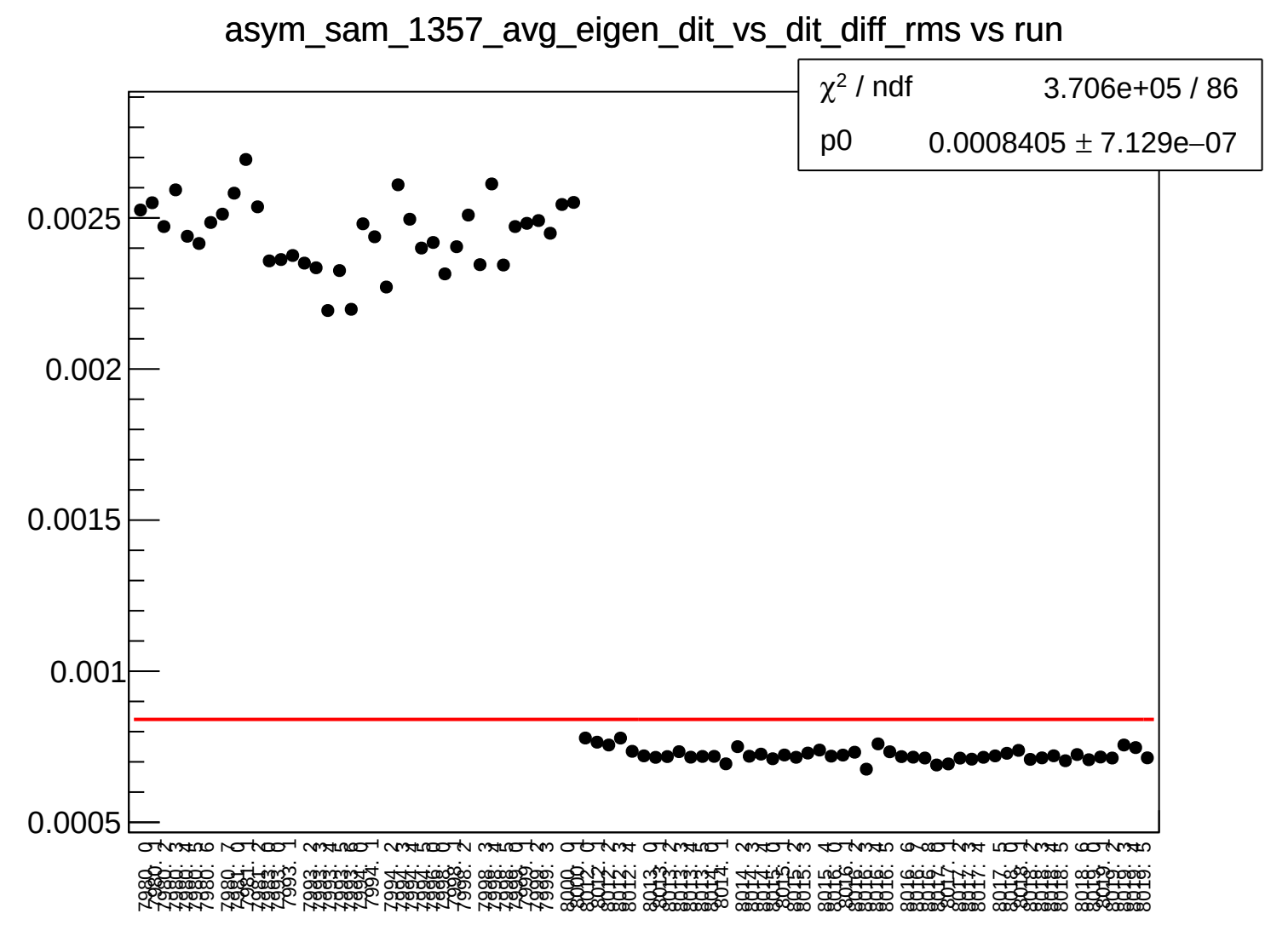

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.4 / 86
p0 −0.006818 ± 0.04074
pull
Entries 87
Mean 4.859
Std Dev 0
pull1D
Entries 87
Mean 0.1167
Std Dev 1.089

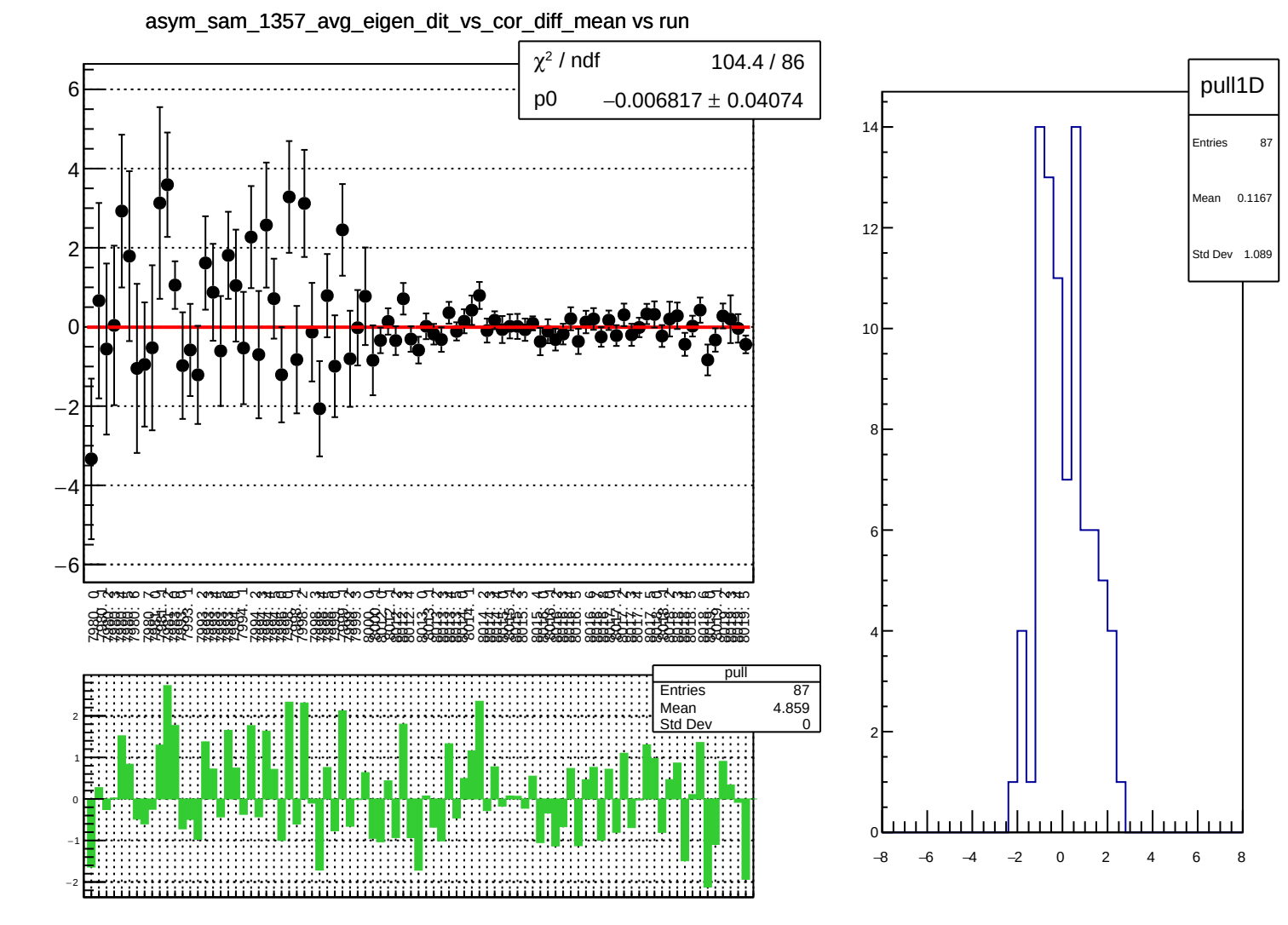

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.075e+05 / 86
p0 32.25 ± 0.02881
250
200
150
100
50

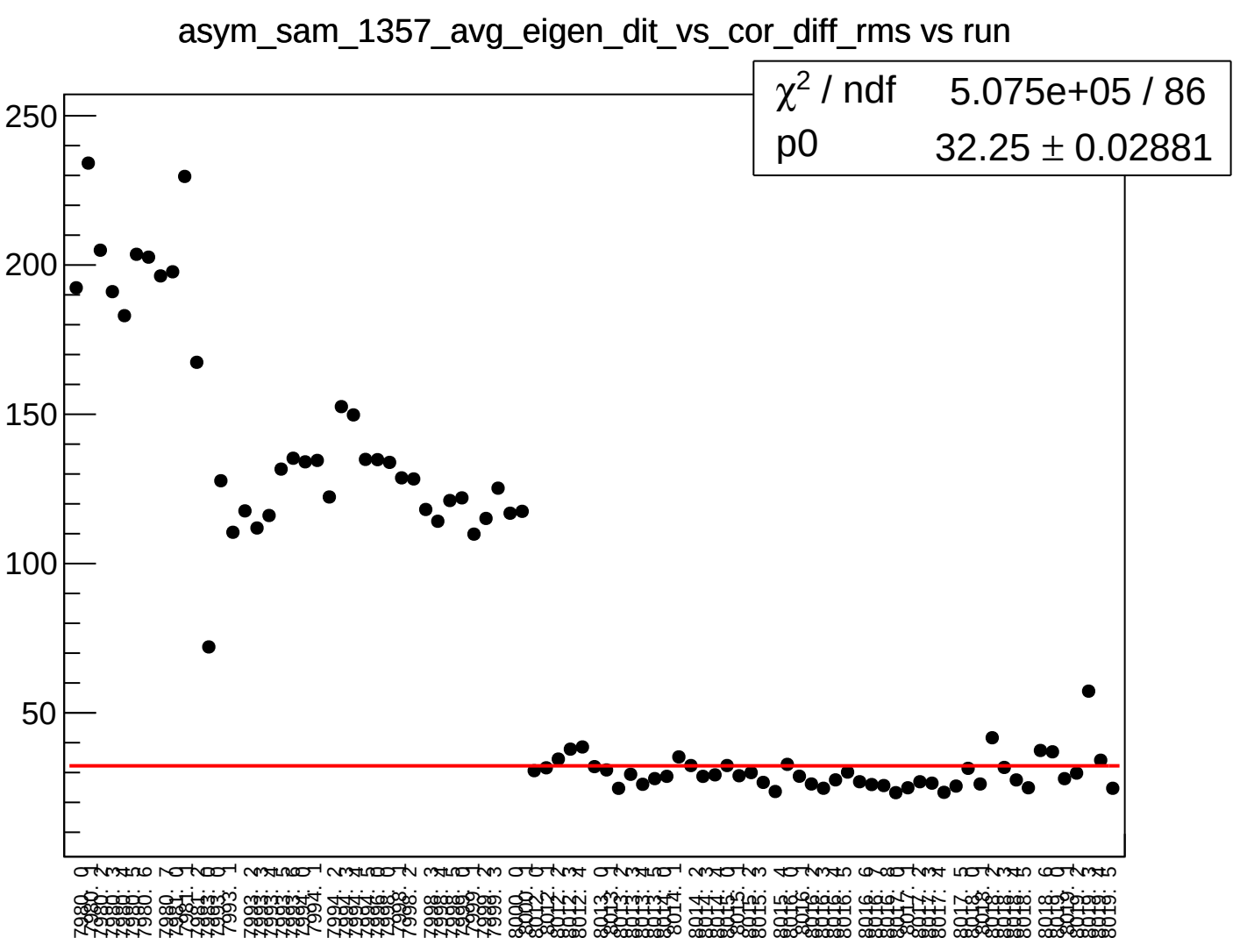

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.4 / 86
p0 −0.006818 ± 0.04074
pull
Entries 87
Mean 4.859
Std Dev 0
pull1D
Entries 87
Mean 0.1167
Std Dev 1.089

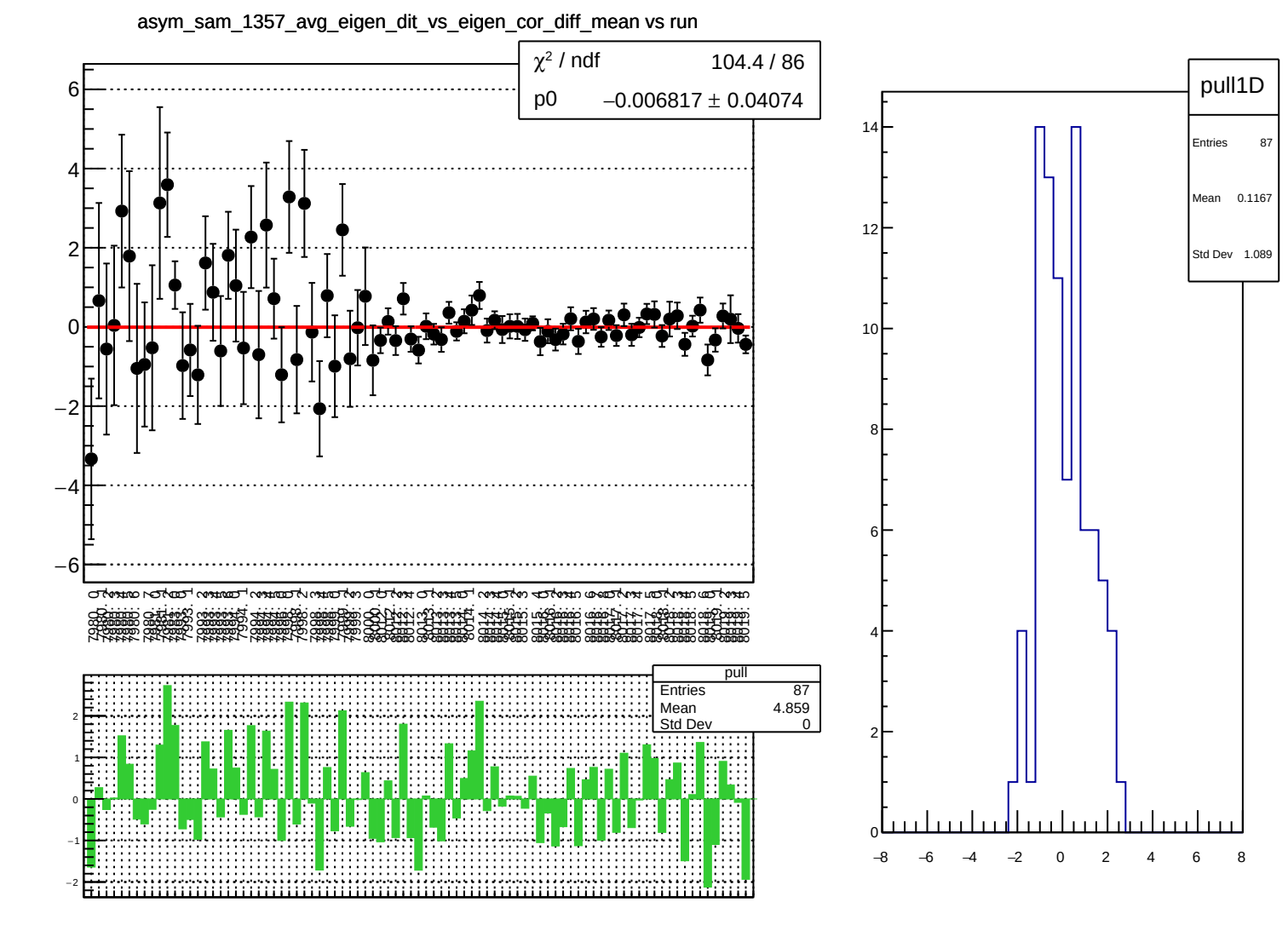

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.075e+05 / 86
p0 32.25 ± 0.02881
250
200
150
100
50

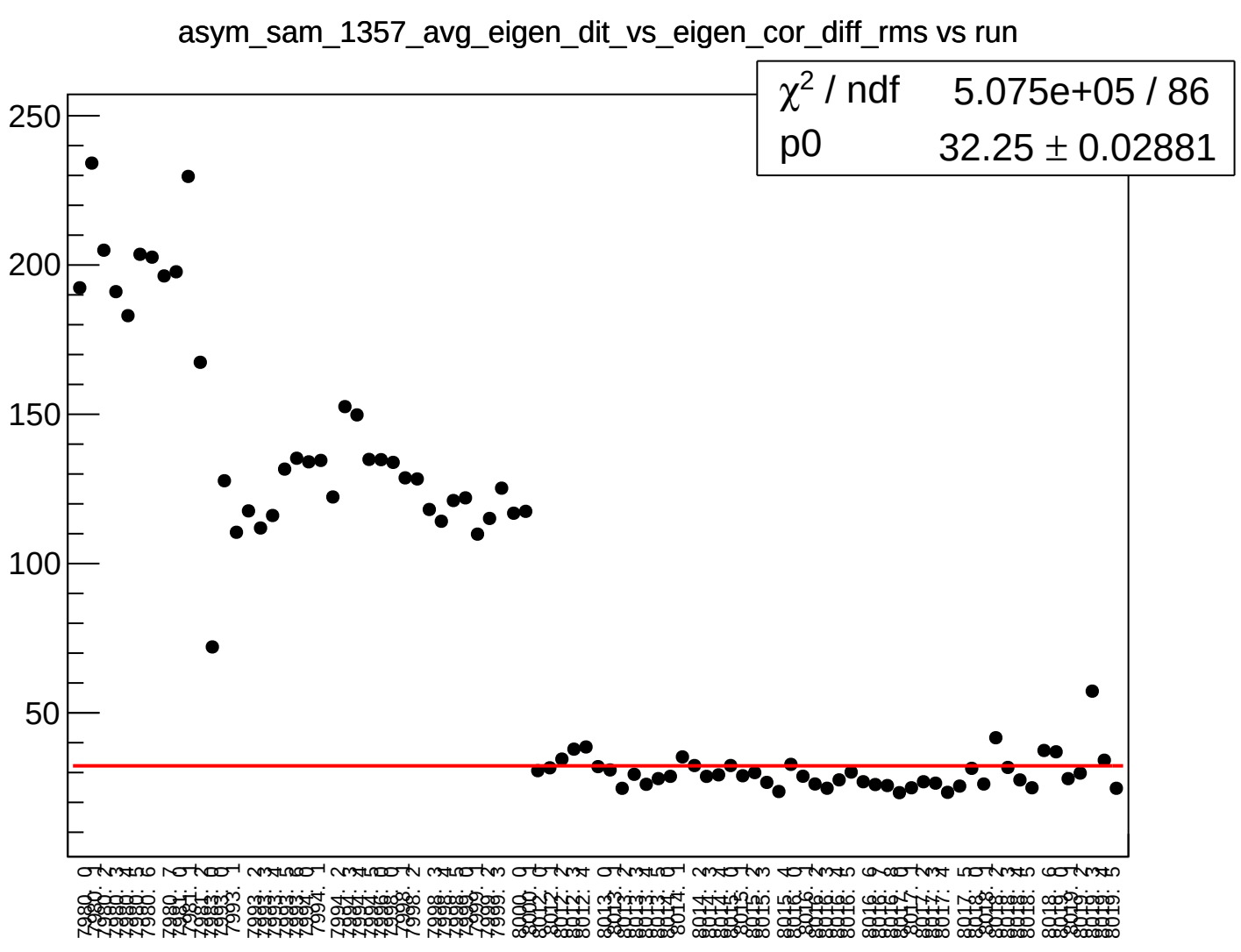

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 110.6 / 86
p0 1.024e−06 ± 1.008e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean −89.03
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.006611
Std Dev 1.127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

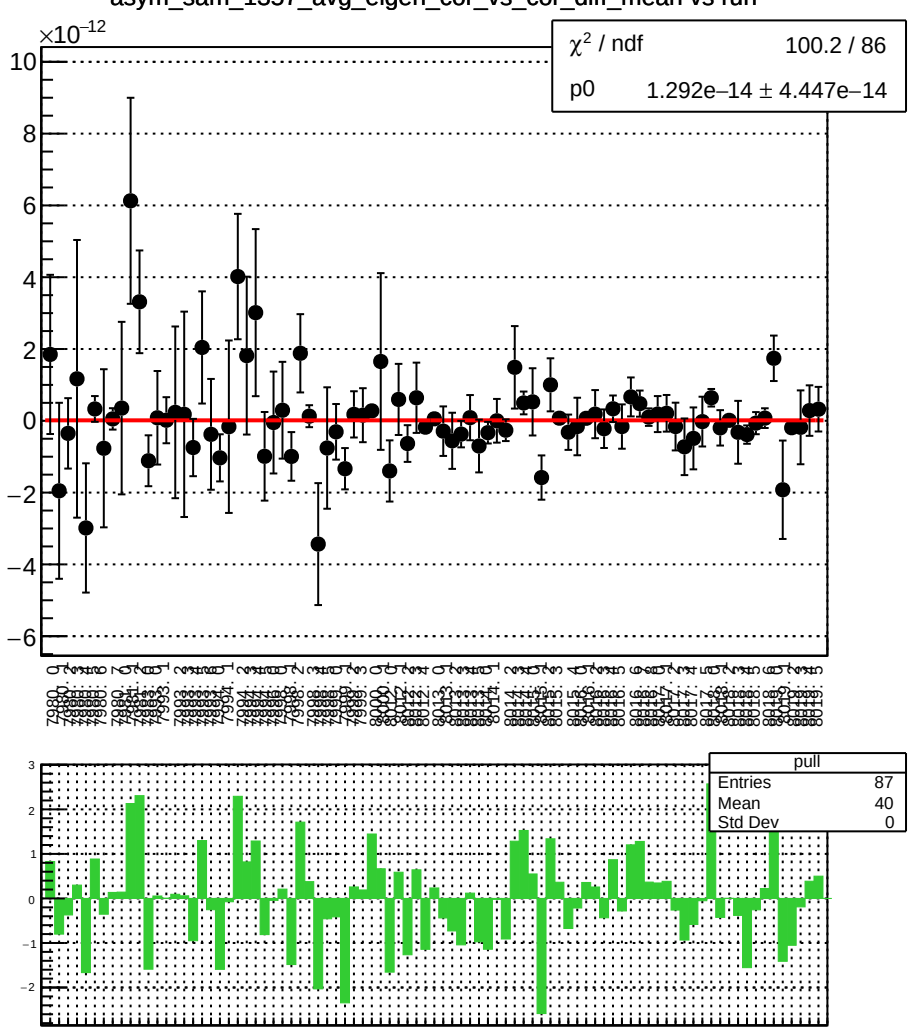

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.706e+05 / 86
p0 0.0008405 ± 7.129e−07
0.0025
0.002
0.0015
0.001
0.0005

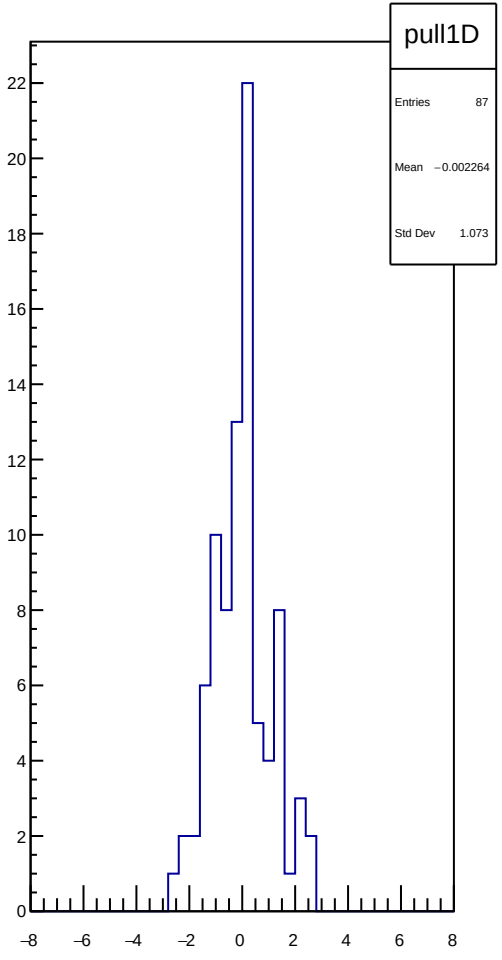

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.4 / 86
p0 −0.006817 ± 0.04074
pull
Entries 87
Mean 4.859
Std Dev 0
pull1D
Entries 87
Mean 0.1167
Std Dev 1.089

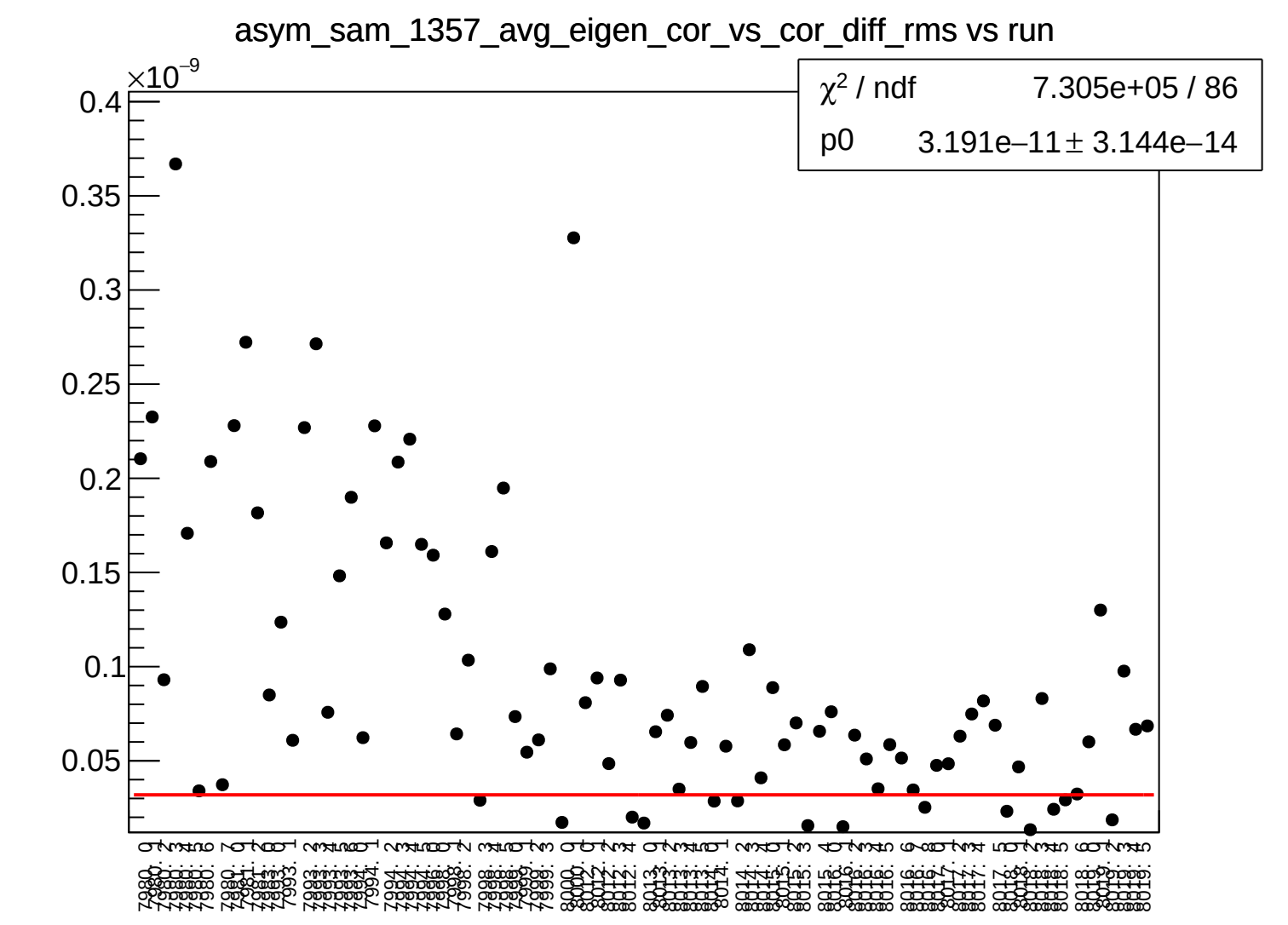

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.075e+05 / 86
p0 32.25 ± 0.02881
250
200
150
100
50

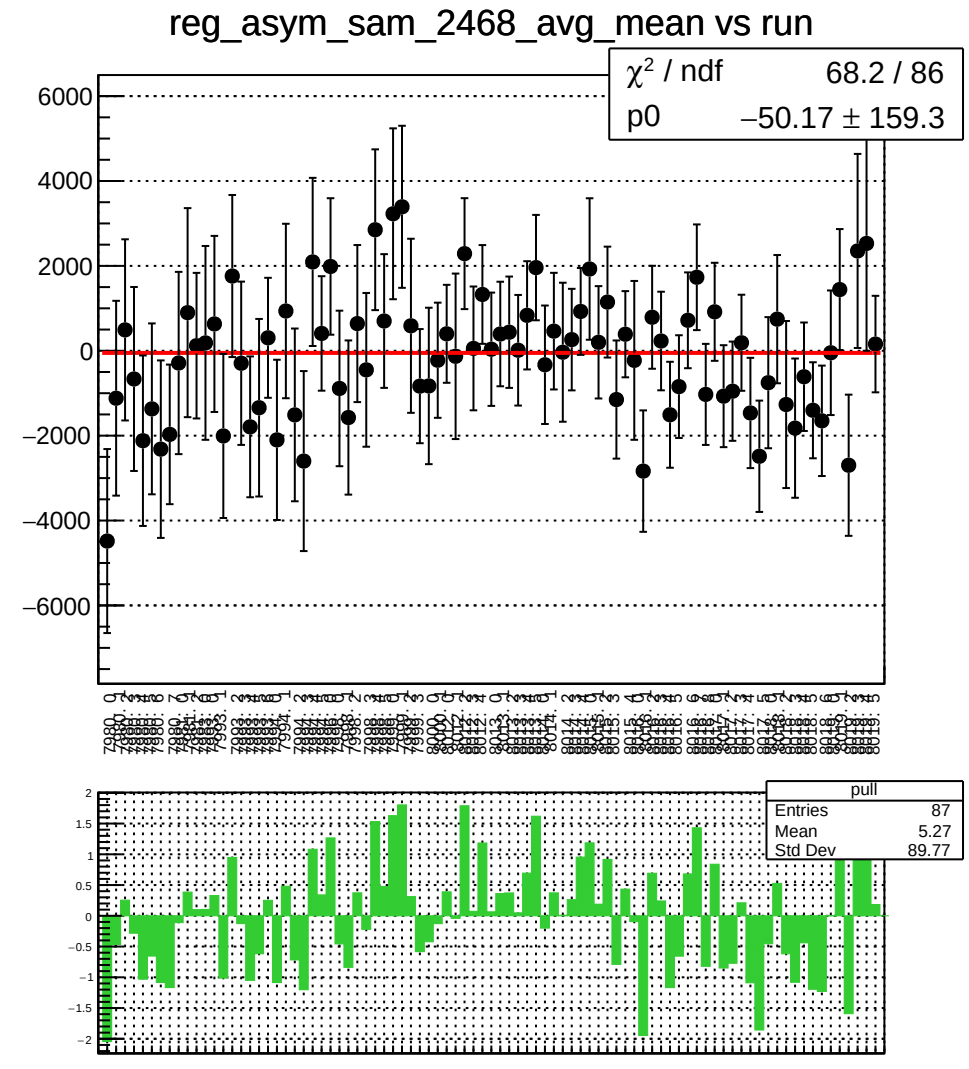

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.4 / 86
p0 −0.006817 ± 0.04074
pull
Entries 87
Mean 4.859
Std Dev 0
pull1D
Entries 87
Mean 0.1167
Std Dev 1.089

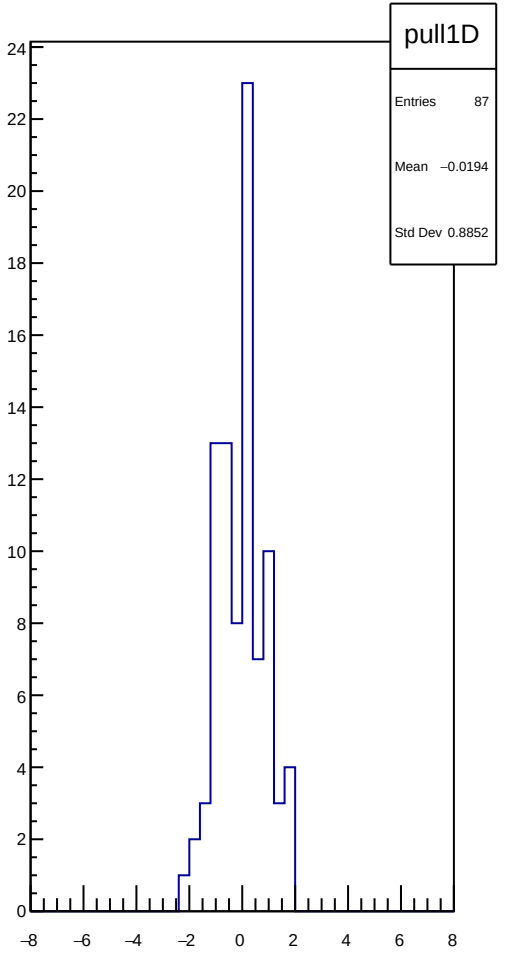

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.075e+05 / 86
p0 32.25 ± 0.02881
250
200
150
100
50

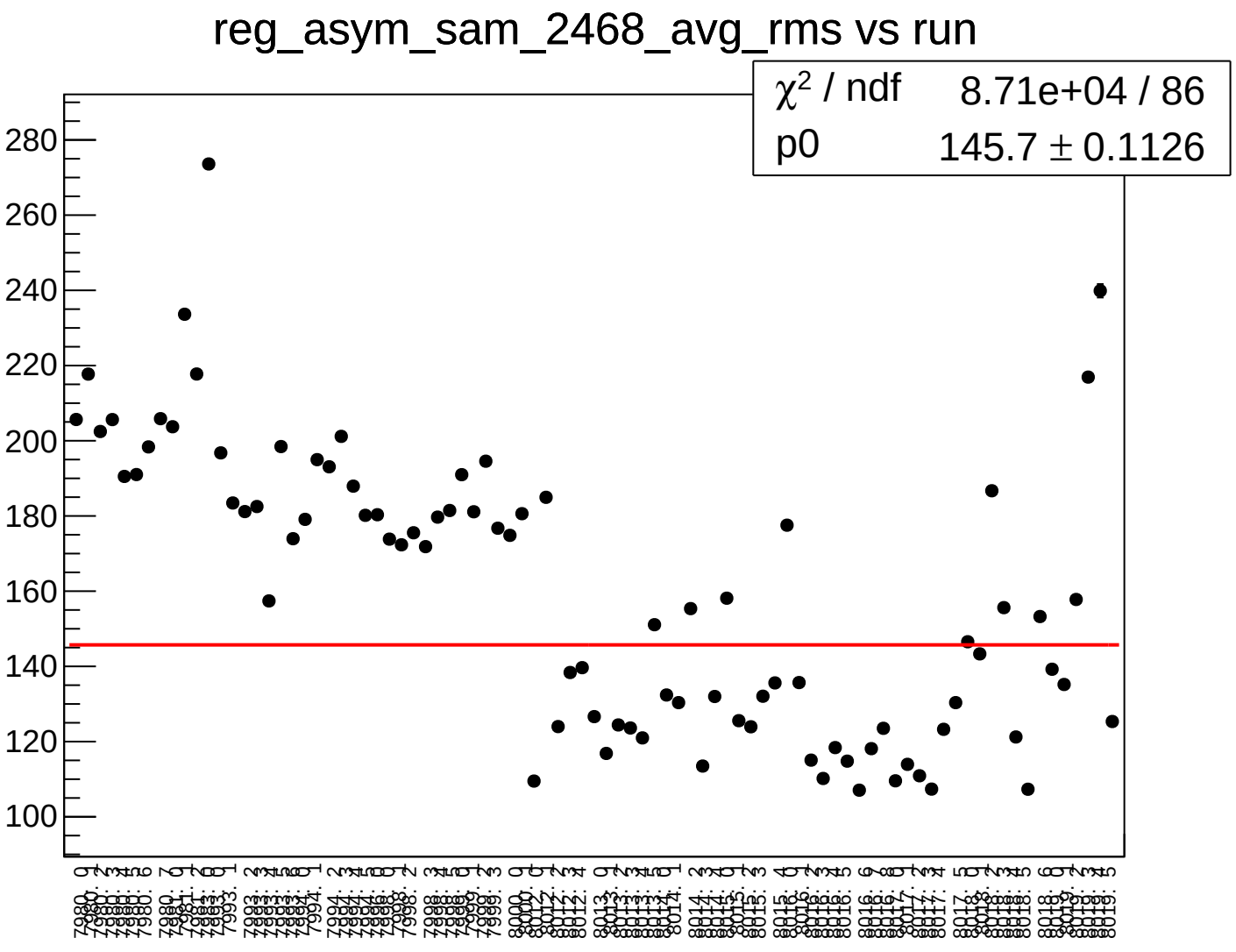

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 100.2 / 86
p0 1.292e−14 ± 4.447e−14
pull
Entries 87
Mean 40
Std Dev 0

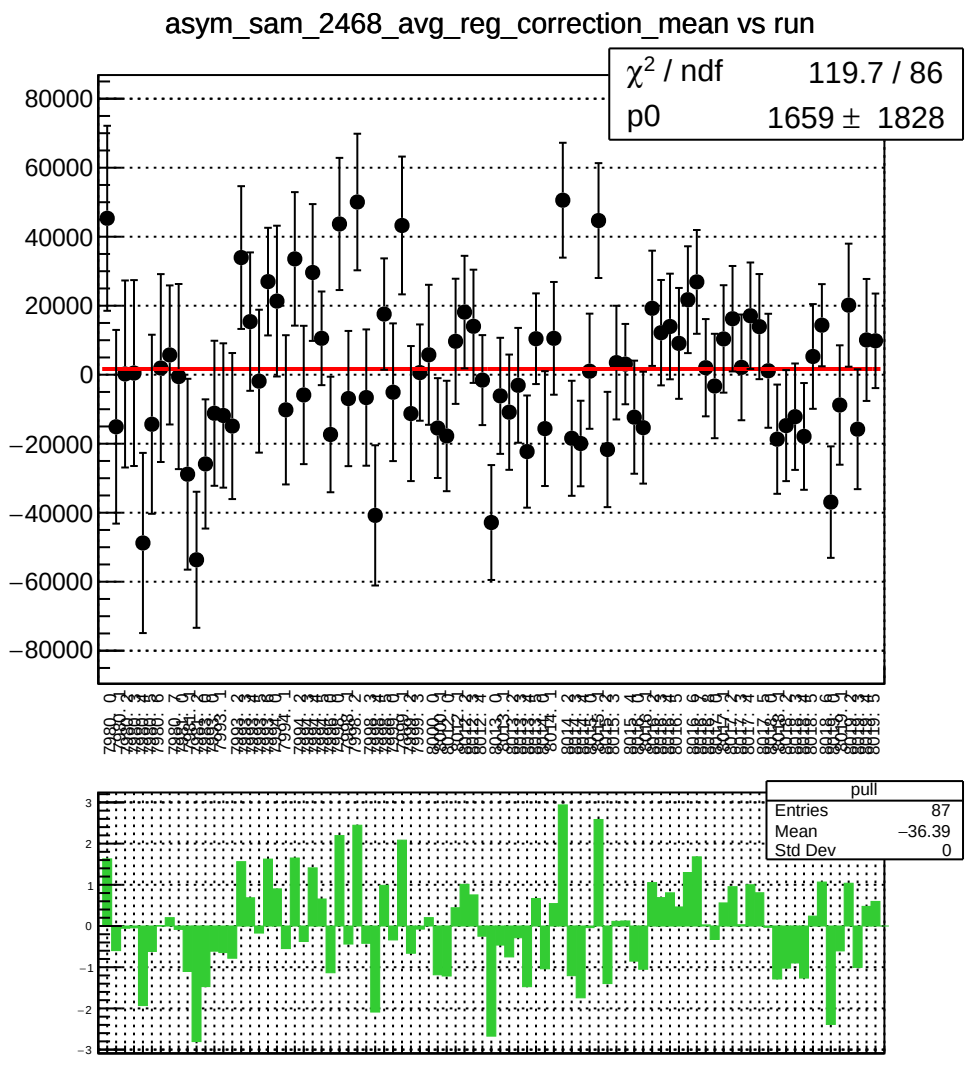

pull1D
Entries 87
Mean −0.002264
Std Dev 1.073

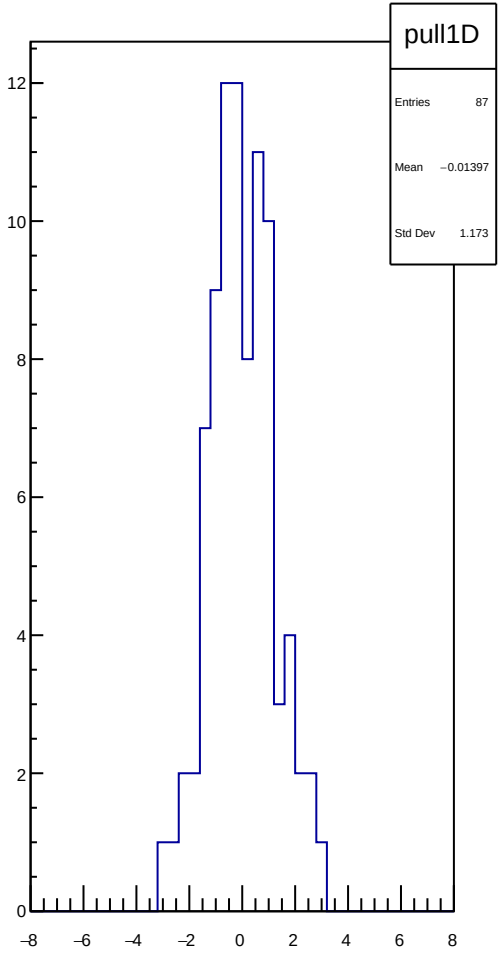

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.305e+05 / 86
p0 3.191e−11 ± 3.144e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

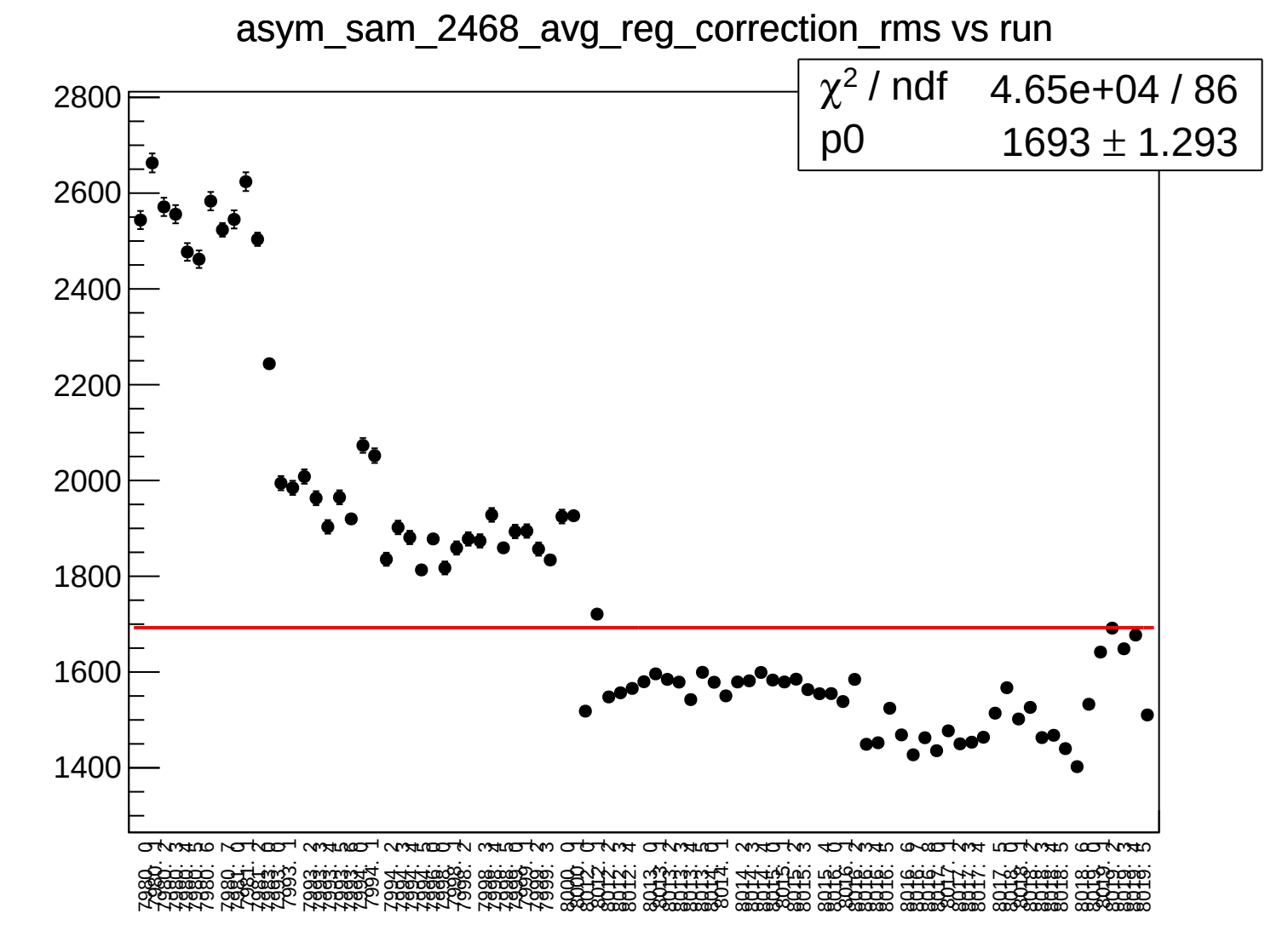

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 68.2 / 86
p0 −50.17 ± 159.3
pull
Entries 87
Mean 5.27
Std Dev 89.77

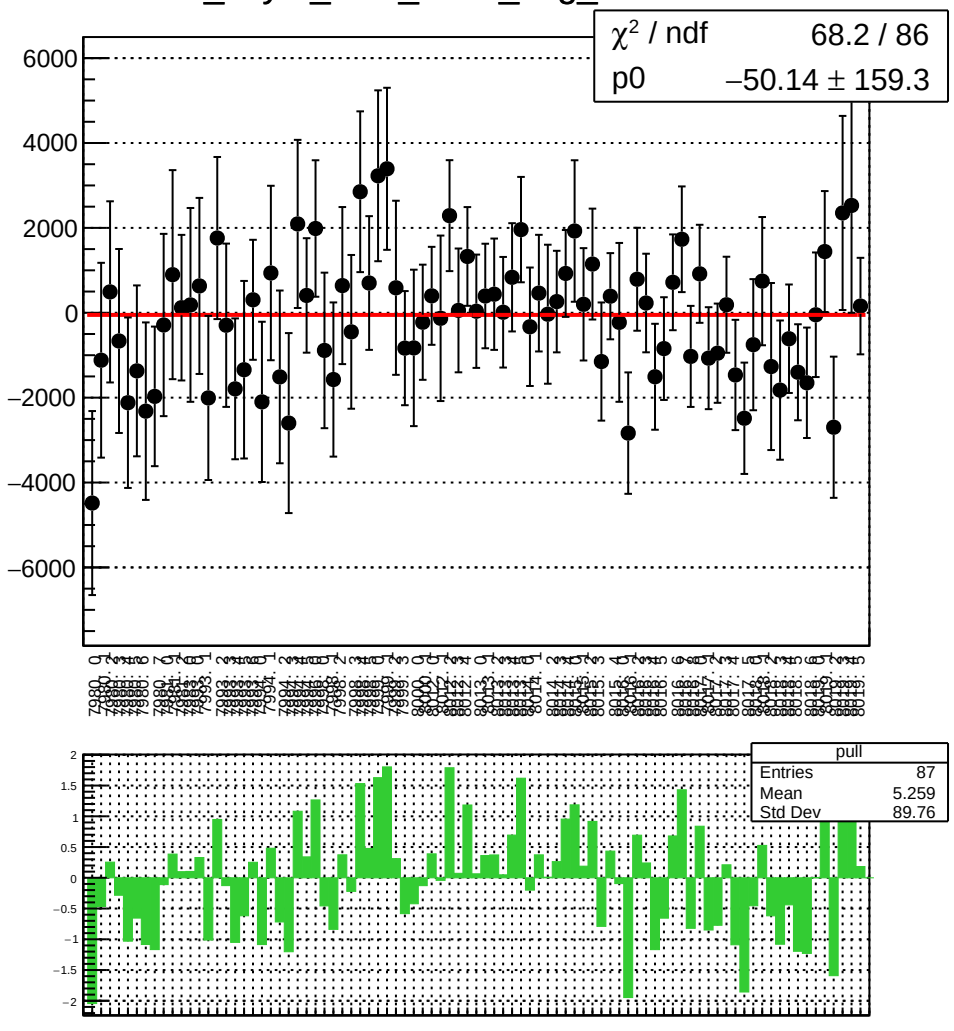

pull1D
Entries 87
Mean −0.0194
Std Dev 0.8852

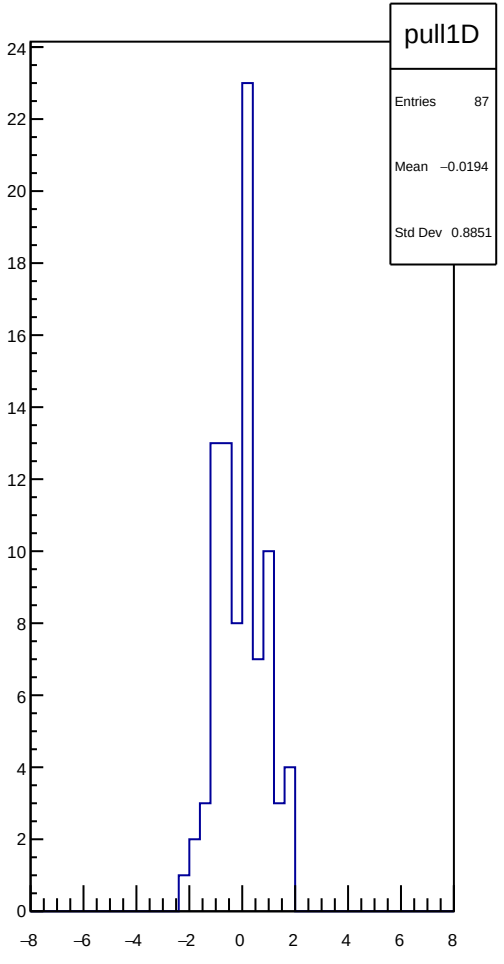

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 8.71e+04 / 86
p0 145.7 ± 0.1126
280
260
240
220
200
180
160
140
120
100

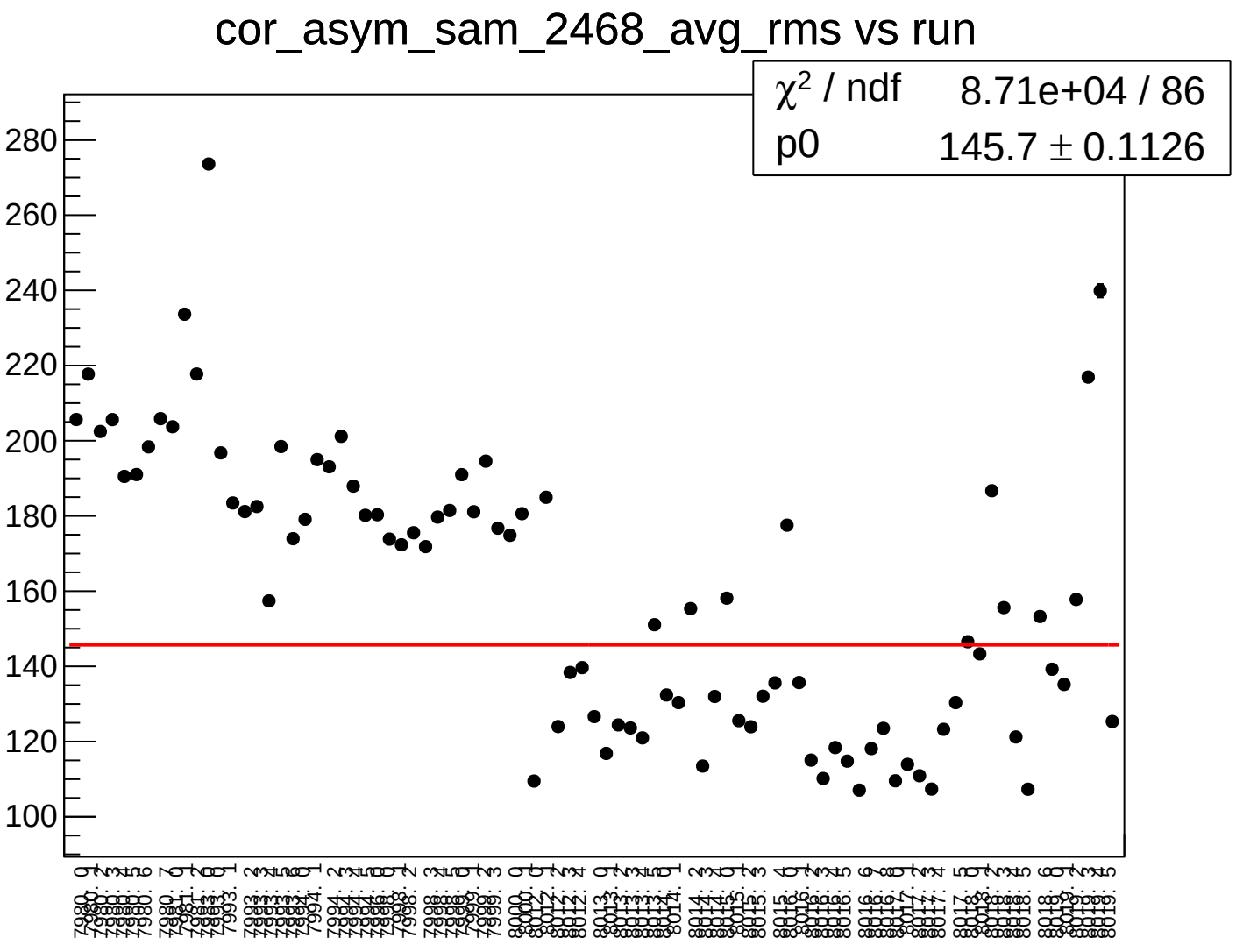

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 119.7 / 86
p0 1659 ± 1828
pull
Entries 87
Mean −36.39
Std Dev 0

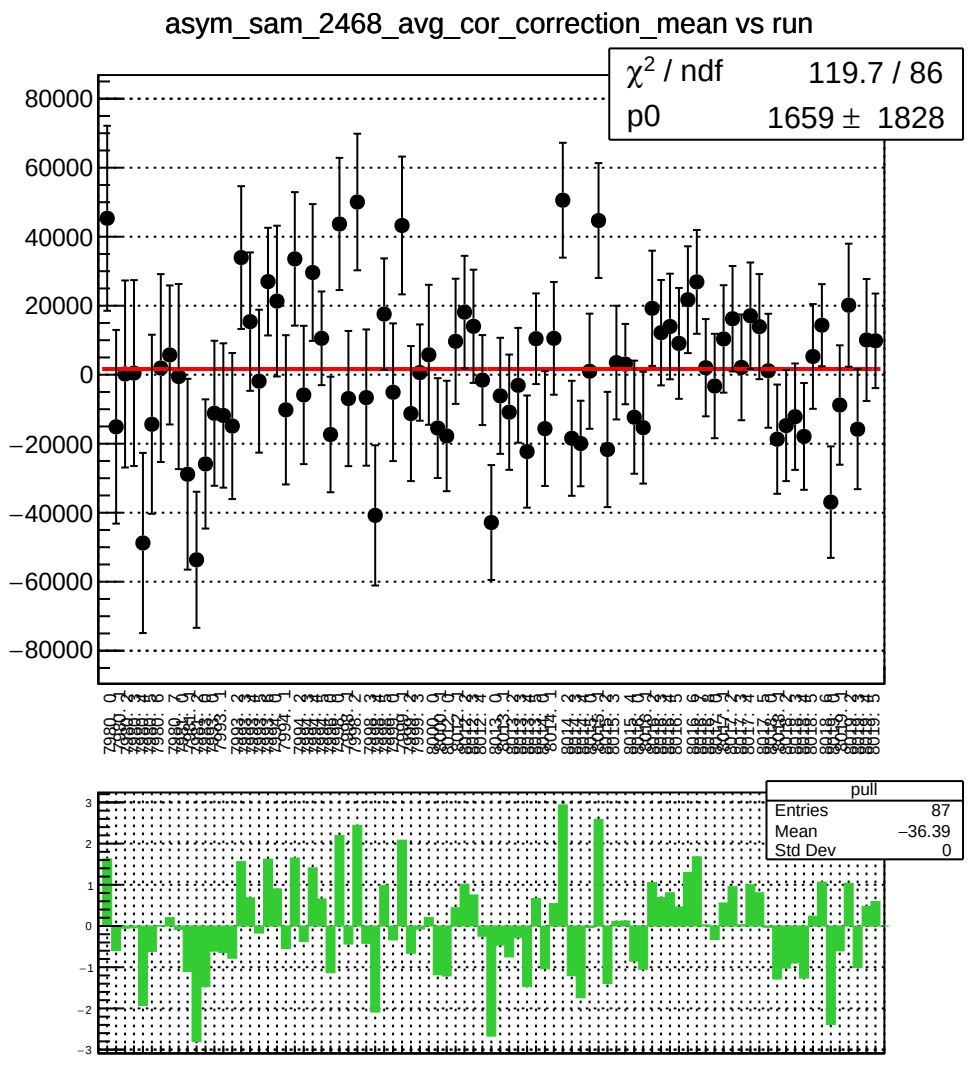

pull1D
Entries 87
Mean −0.01397
Std Dev 1.173

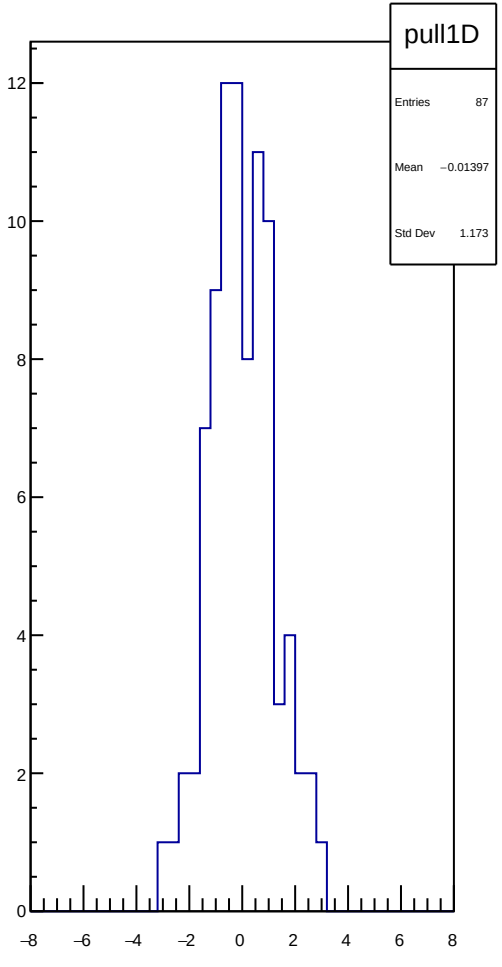

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 4.65e+04 / 86
p0 1693 ± 1.293
2800
2600
2400
2200
2000
1800
1600
1400

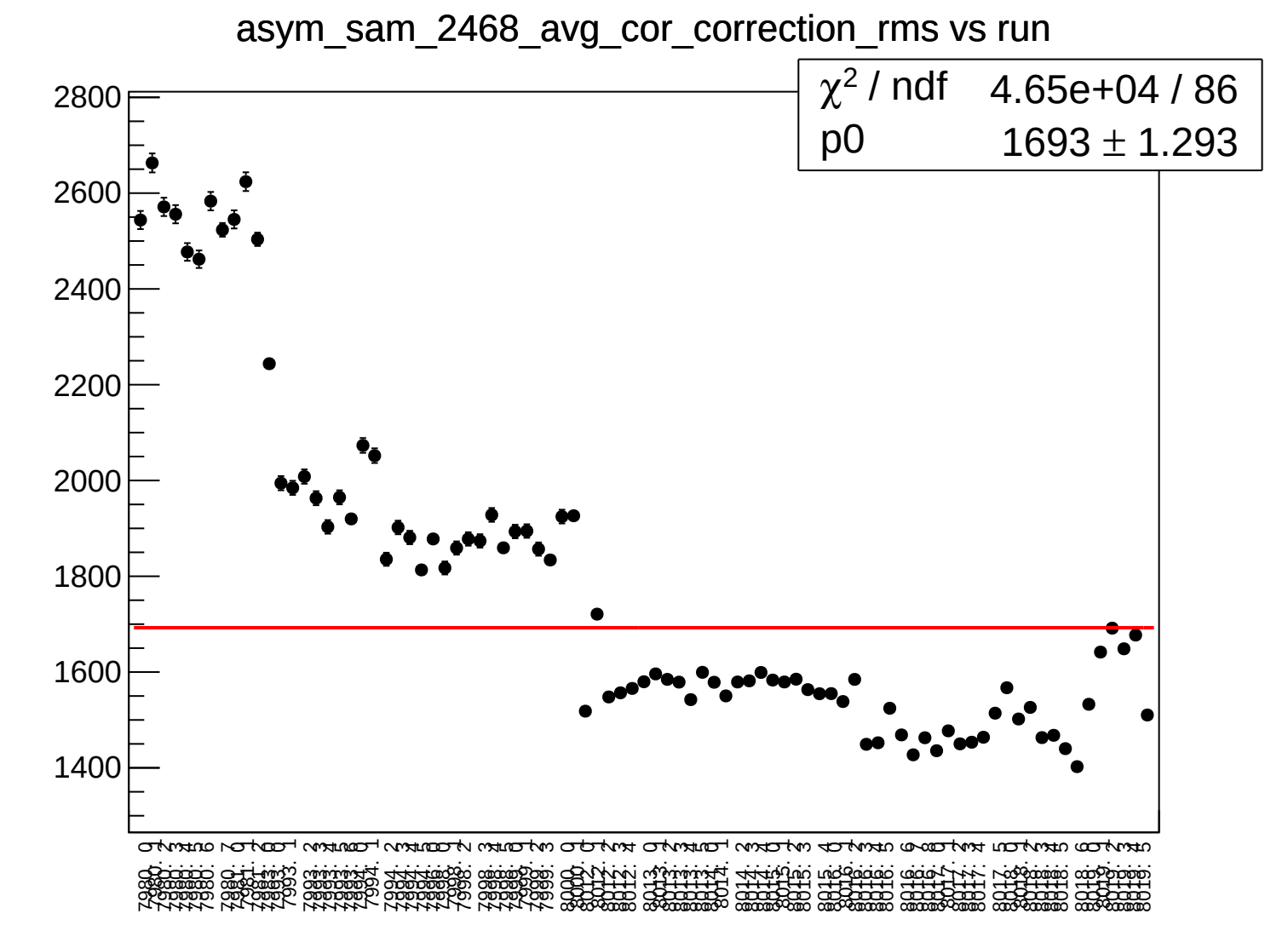

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 68.2 / 86
p0 −50.14 ± 159.3
pull
Entries 87
Mean 5.259
Std Dev 89.76

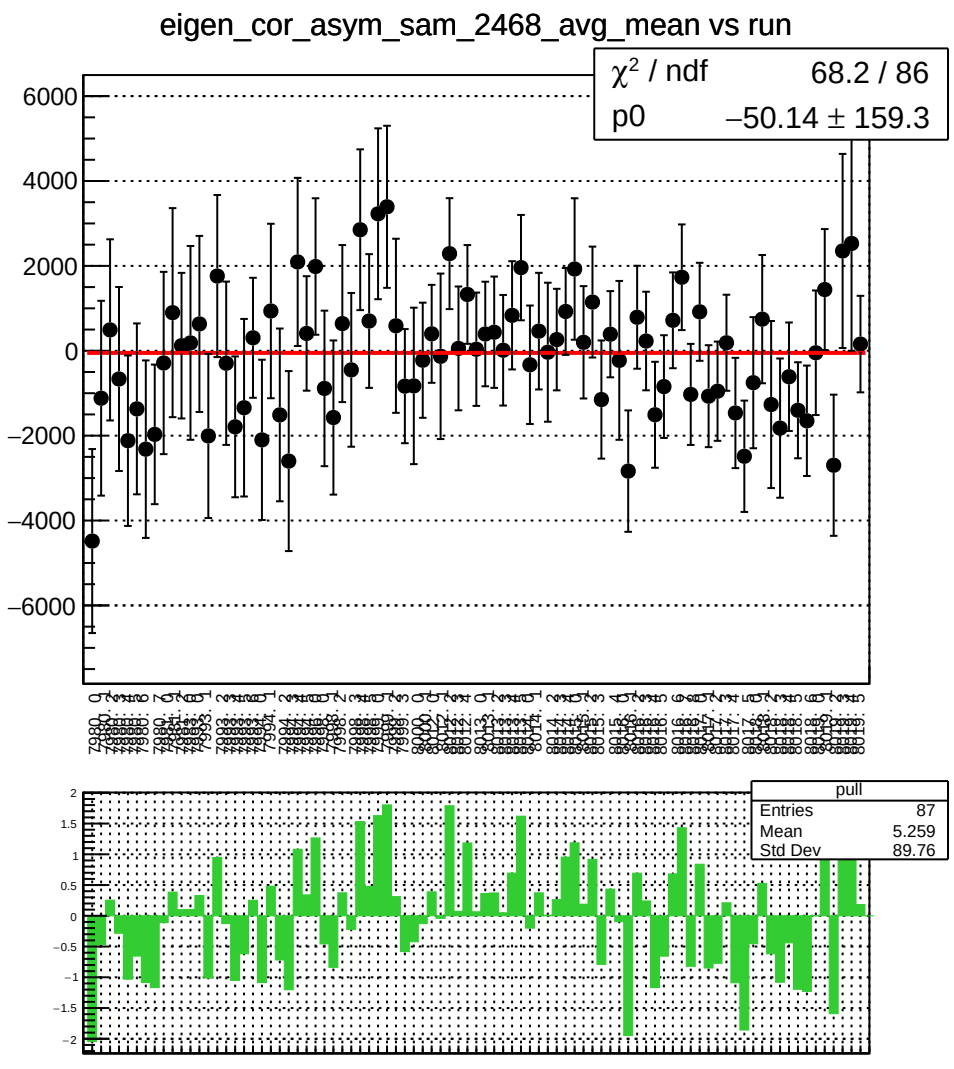

pull1D
Entries 87
Mean −0.0194
Std Dev 0.8851

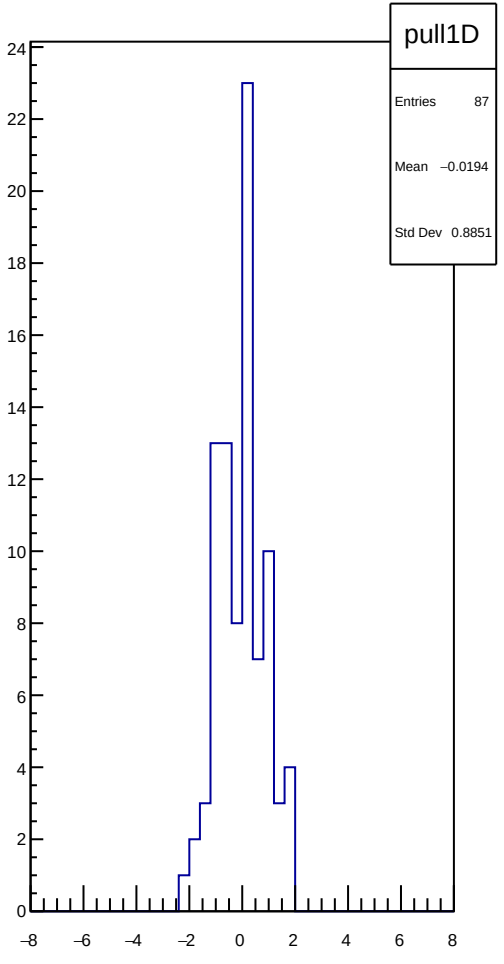

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 8.71e+04 / 86
p0 145.7 ± 0.1126
280
260
240
220
200
180
160
140
120
100

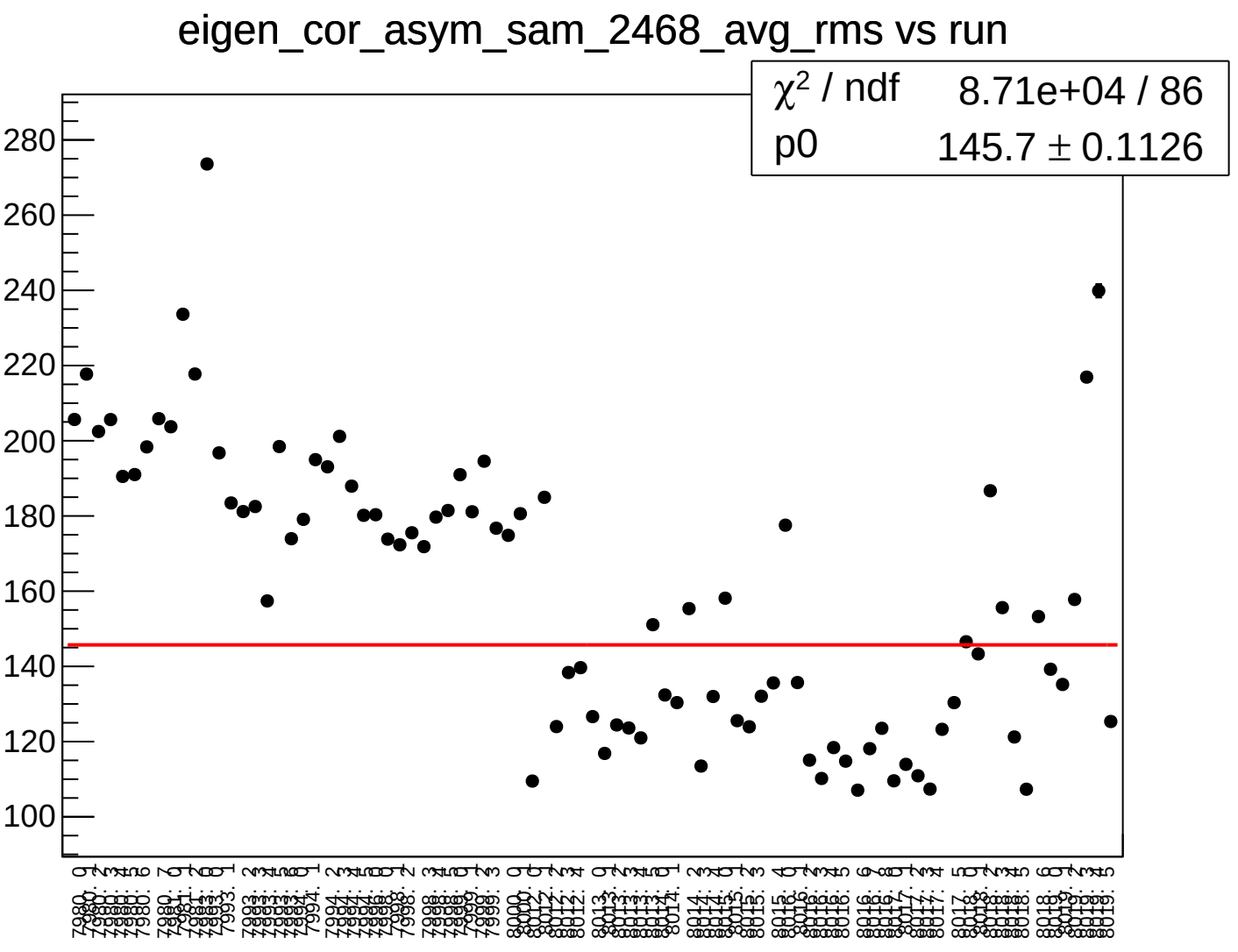

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 119.7 / 86
p0 1659 ± 1828
pull
Entries 87
Mean −36.39
Std Dev 0

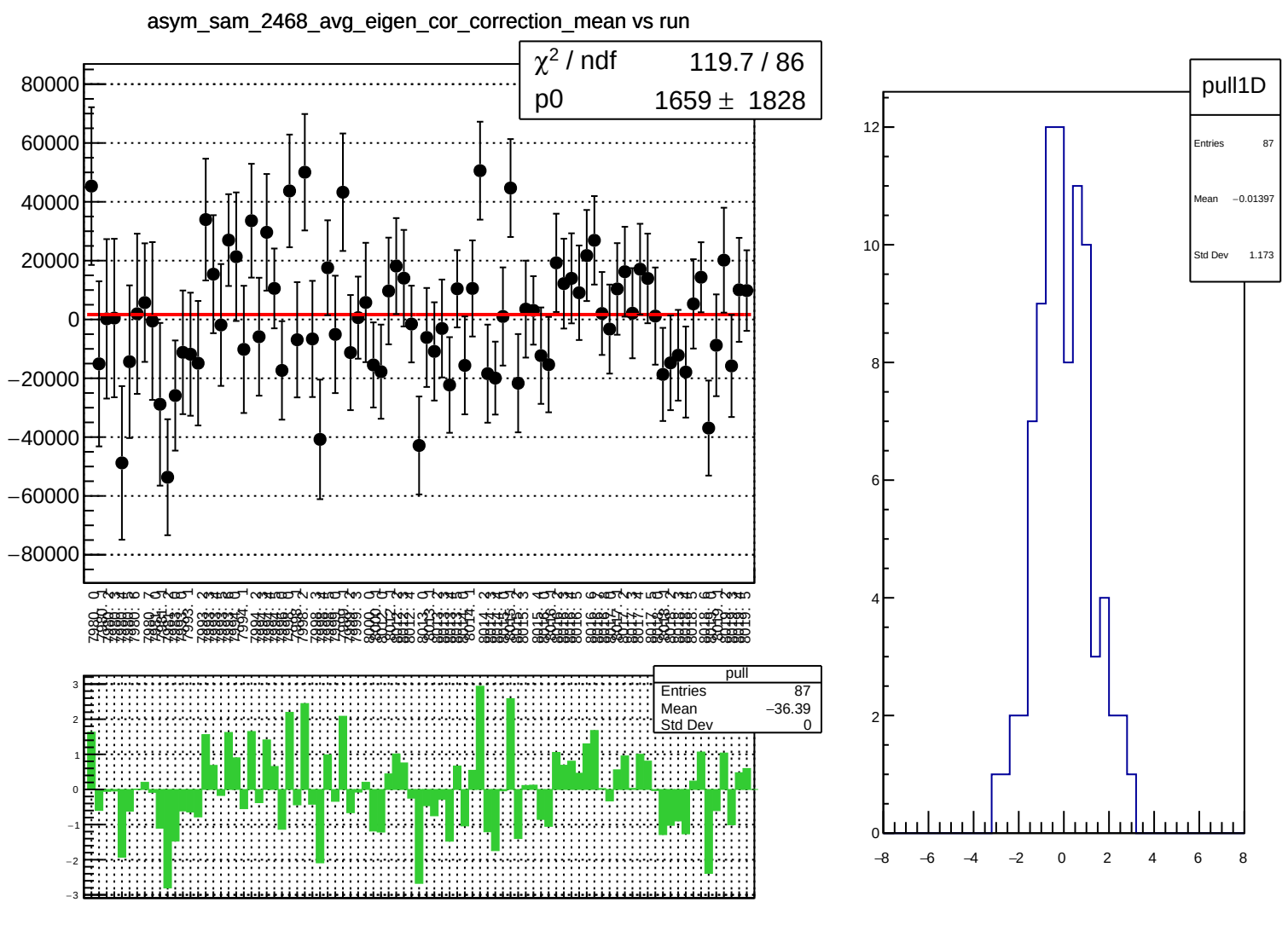

pull1D
Entries 87
Mean −0.01397
Std Dev 1.173

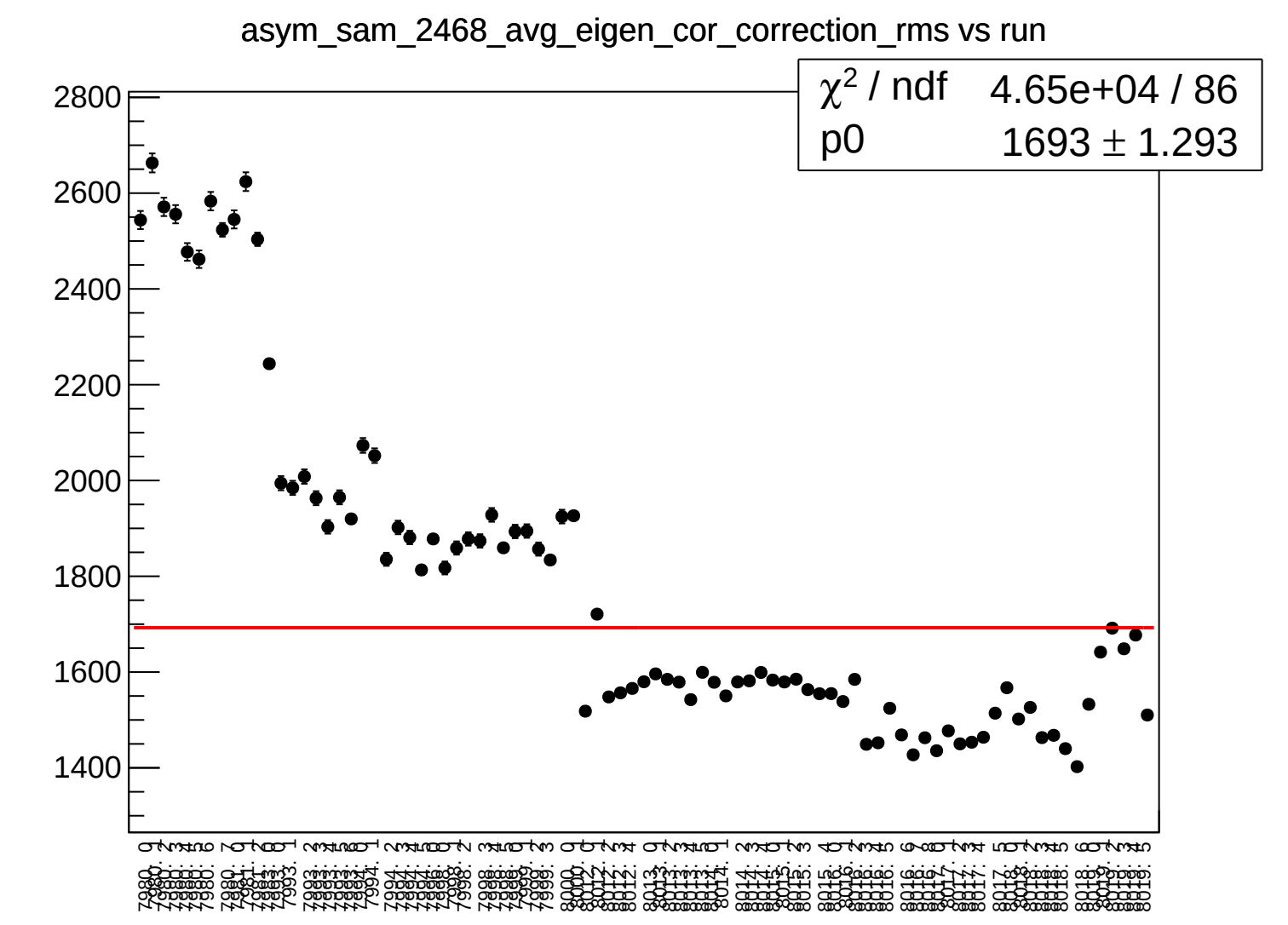

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 4.65e+04 / 86
p0 1693 ± 1.293
2800
2600
2400
2200
2000
1800
1600
1400

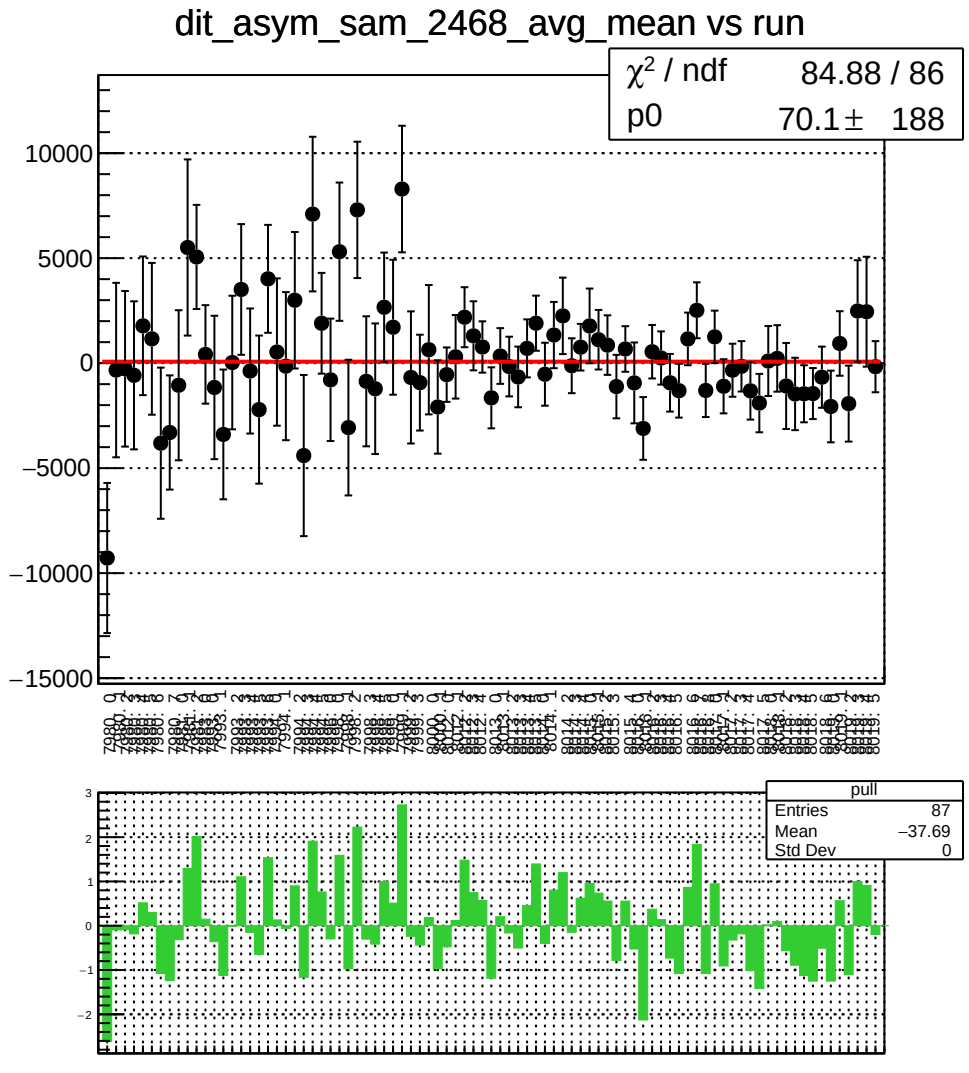

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 68.2 / 86
p0 −50.14 ± 159.3
pull
Entries 87
Mean 5.259
Std Dev 89.76

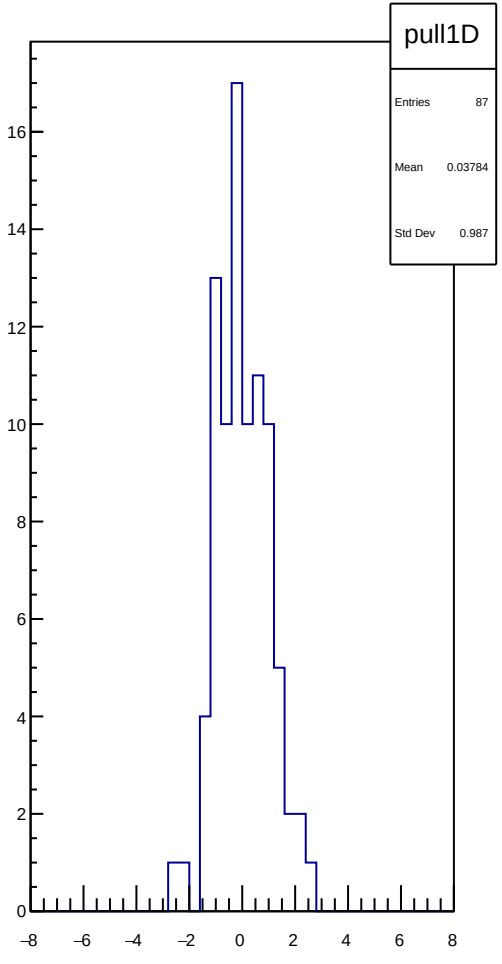

pull1D
Entries 87
Mean −0.0194
Std Dev 0.8851

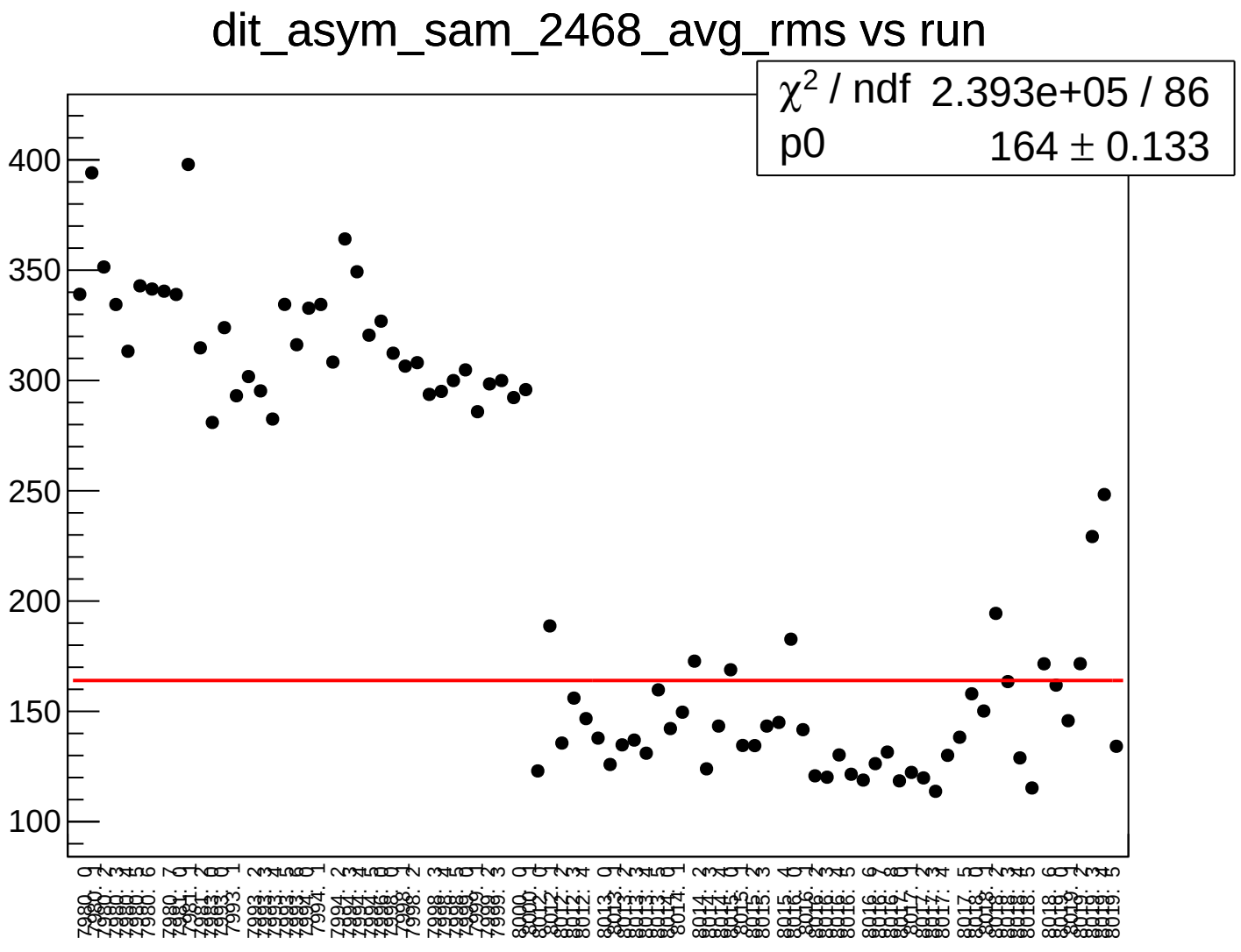

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 8.71e+04 / 86
p0 145.7 ± 0.1126
280
260
240
220
200
180
160
140
120
100

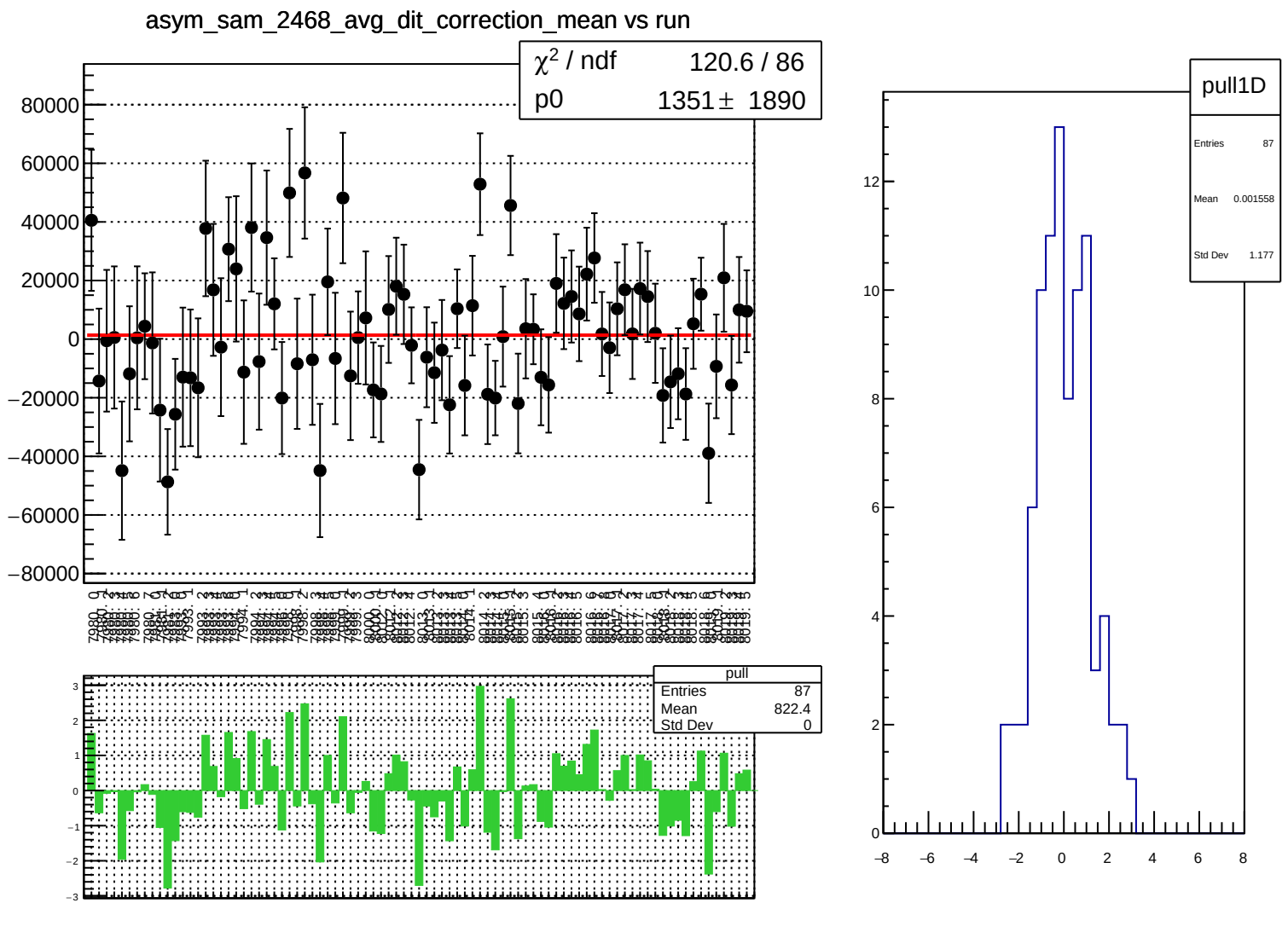

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 119.7 / 86
p0 1659 ± 1828
pull
Entries 87
Mean −36.39
Std Dev 0
pull1D
Entries 87
Mean −0.01397
Std Dev 1.173

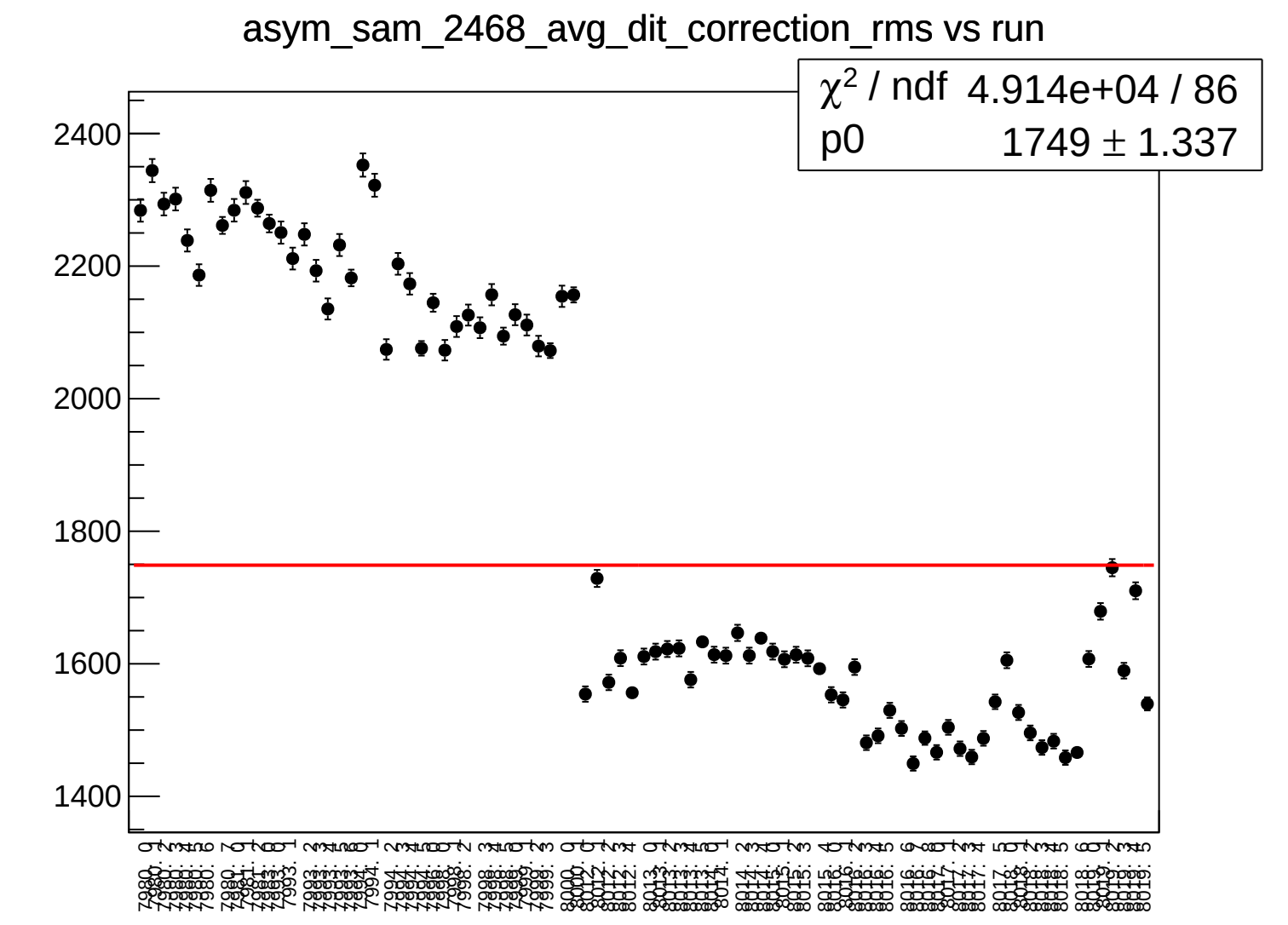

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.65e+04 / 86
p0 1693 ± 1.293
2800
2600
2400
2200
2000
1800
1600
1400

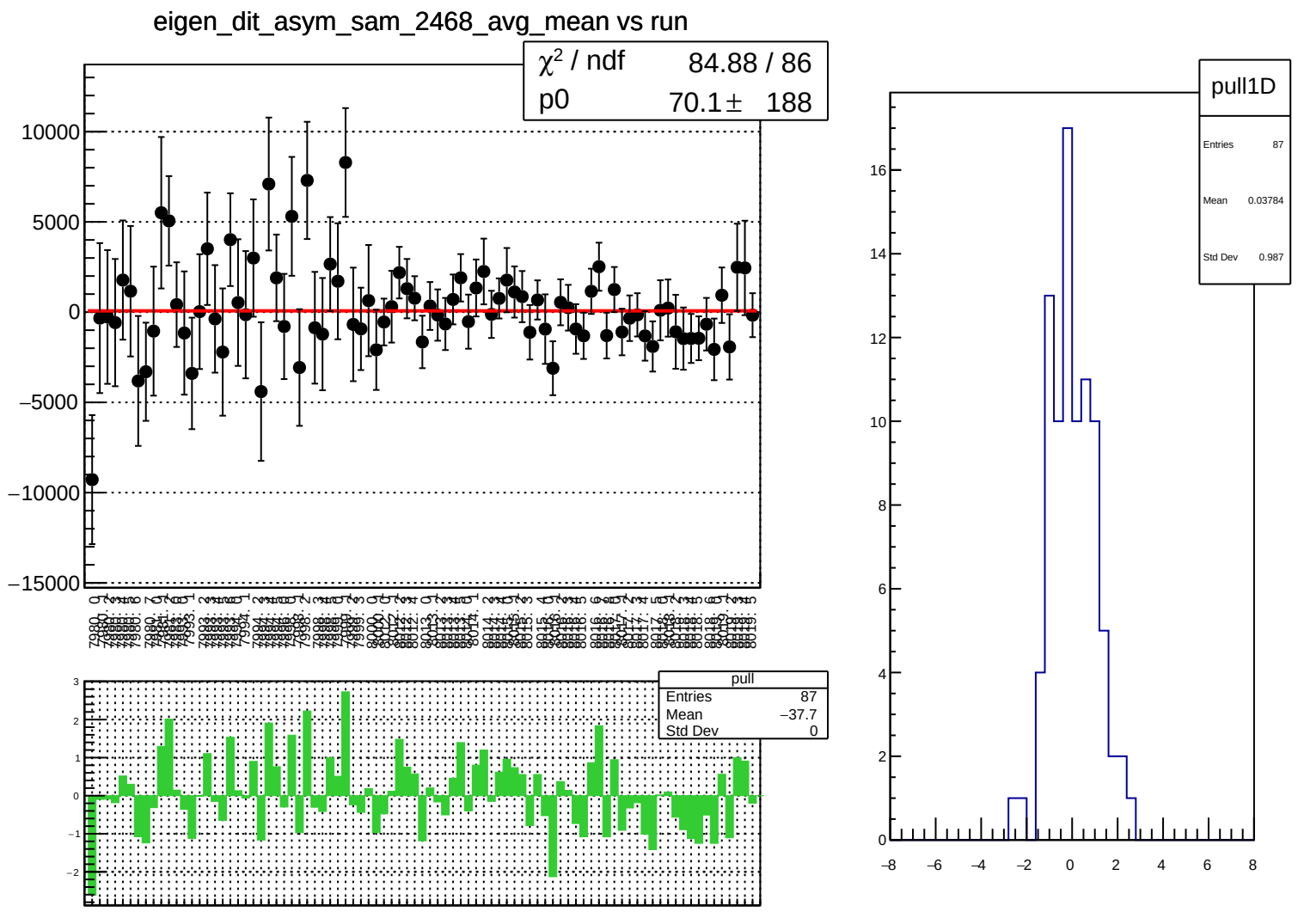

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 84.88 / 86
p0 70.1 ± 188
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −37.69
Std Dev 0
3
2
1
0
−1
−2

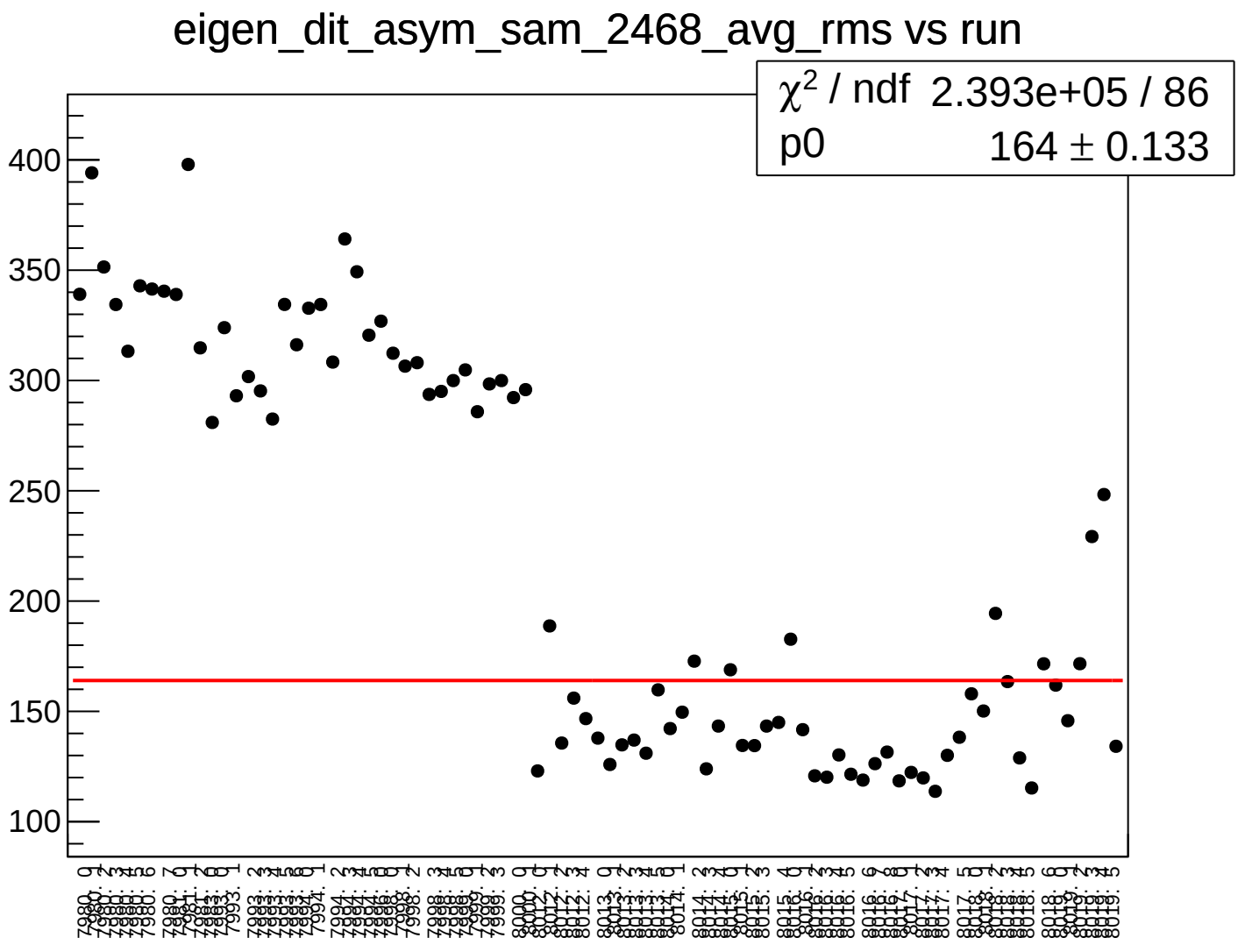

pull1D
Entries 87
Mean 0.03784
Std Dev 0.987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

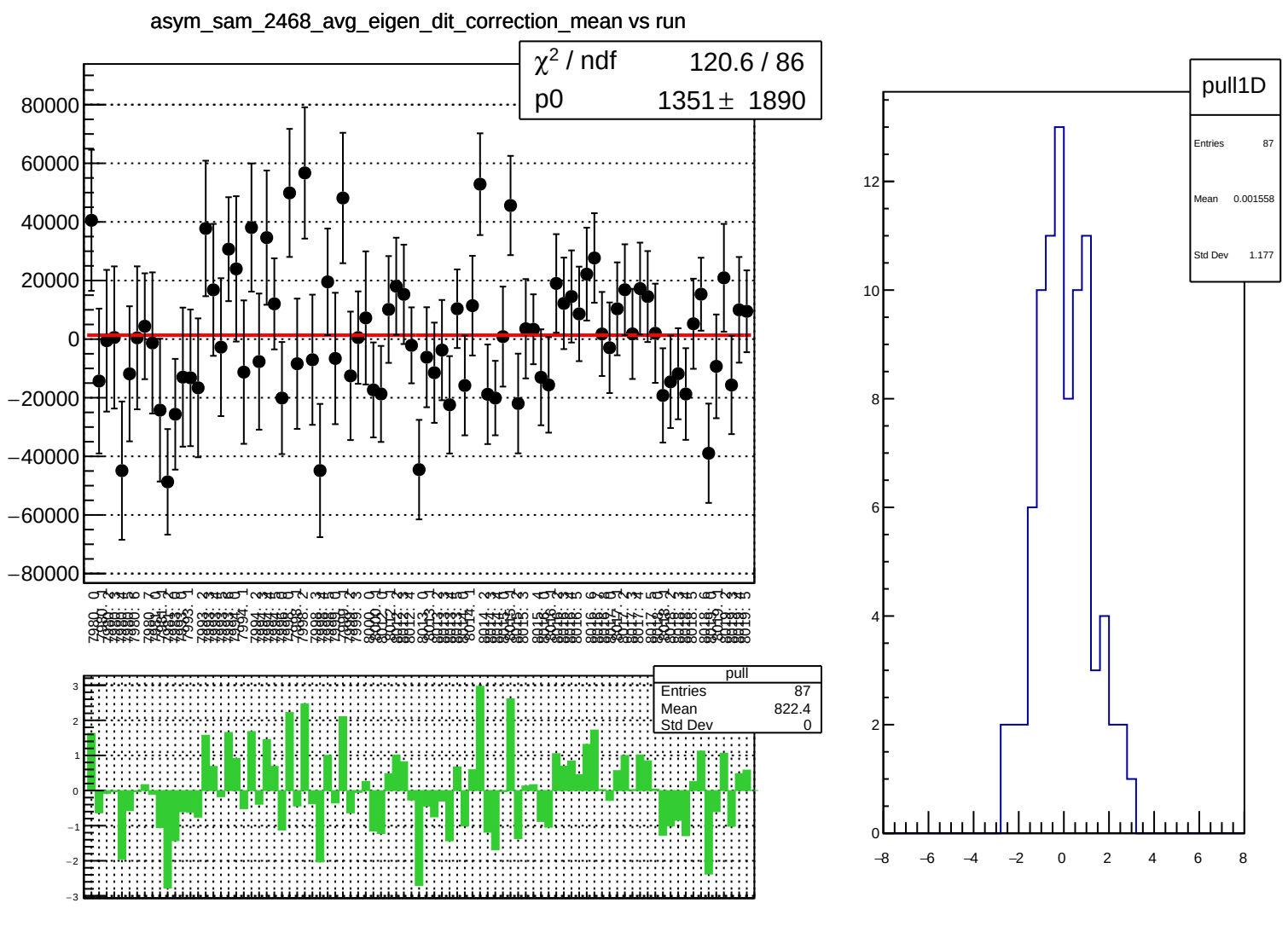

dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.393e+05 / 86
p0 164 ± 0.133
400
350
300
250
200
150
100

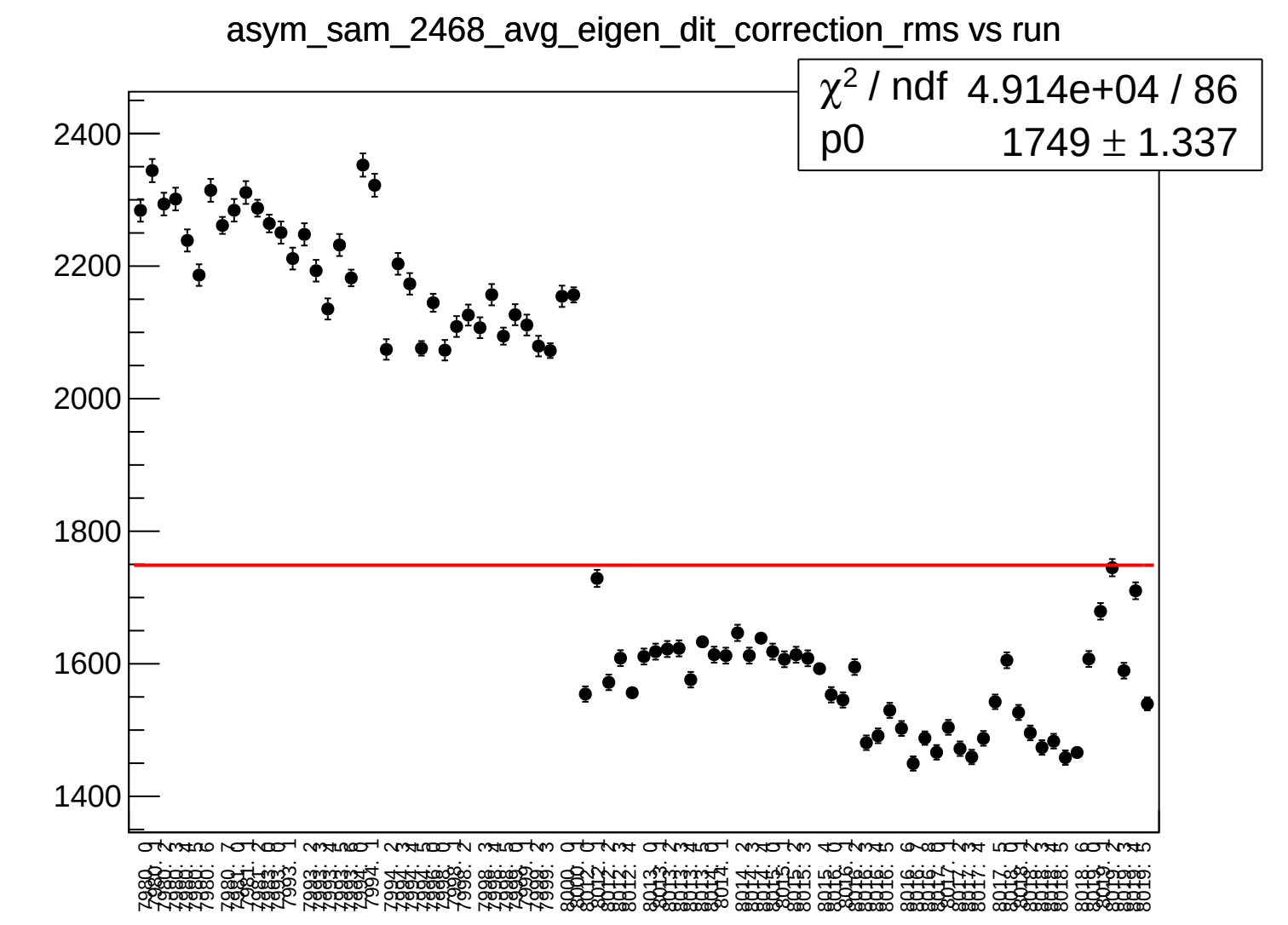

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 120.6 / 86
p0 1351 ± 1890
pull
Entries 87
Mean 822.4
Std Dev 0
pull1D
Entries 87
Mean 0.001558
Std Dev 1.177

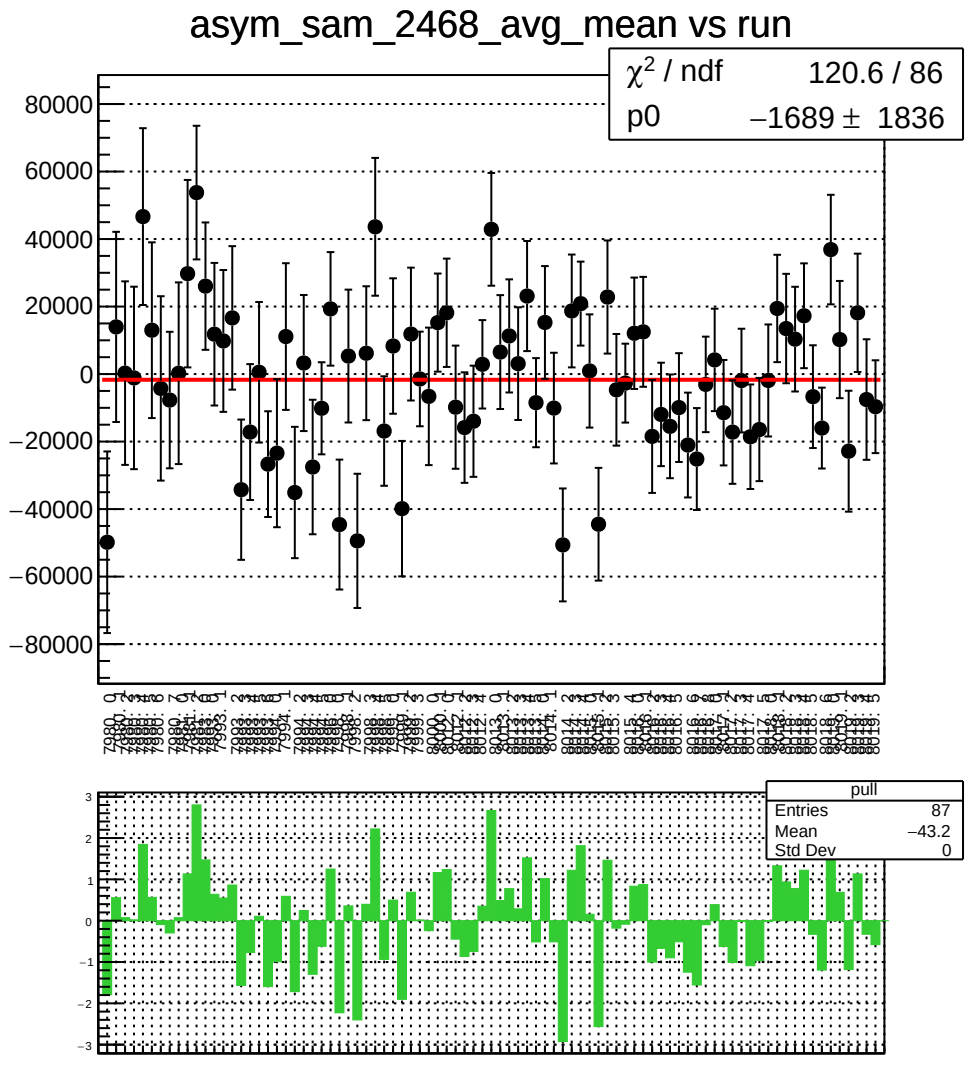

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 4.914e+04 / 86
p0 1749 ± 1.337
2400
2200
2000
1800
1600
1400

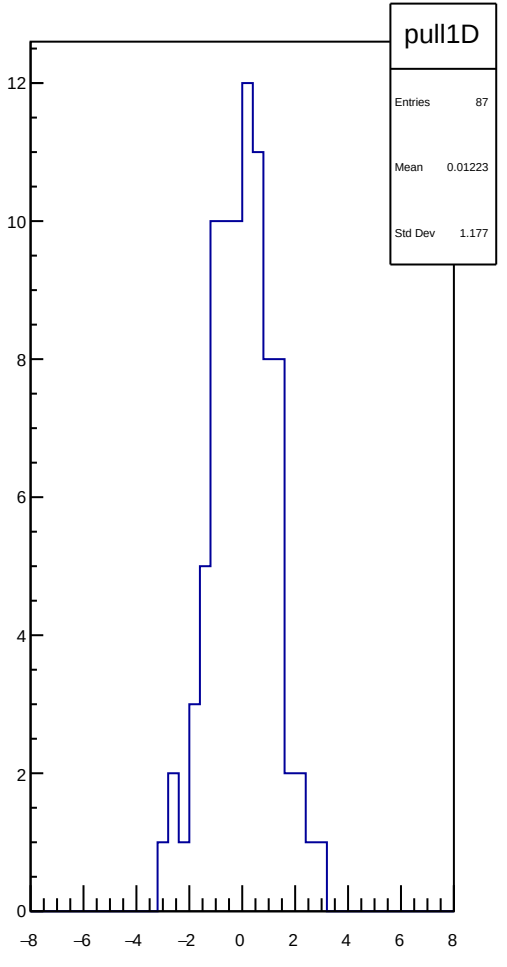

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 84.88 / 86
p0 70.1 ± 188
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −37.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.03784
Std Dev 0.987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

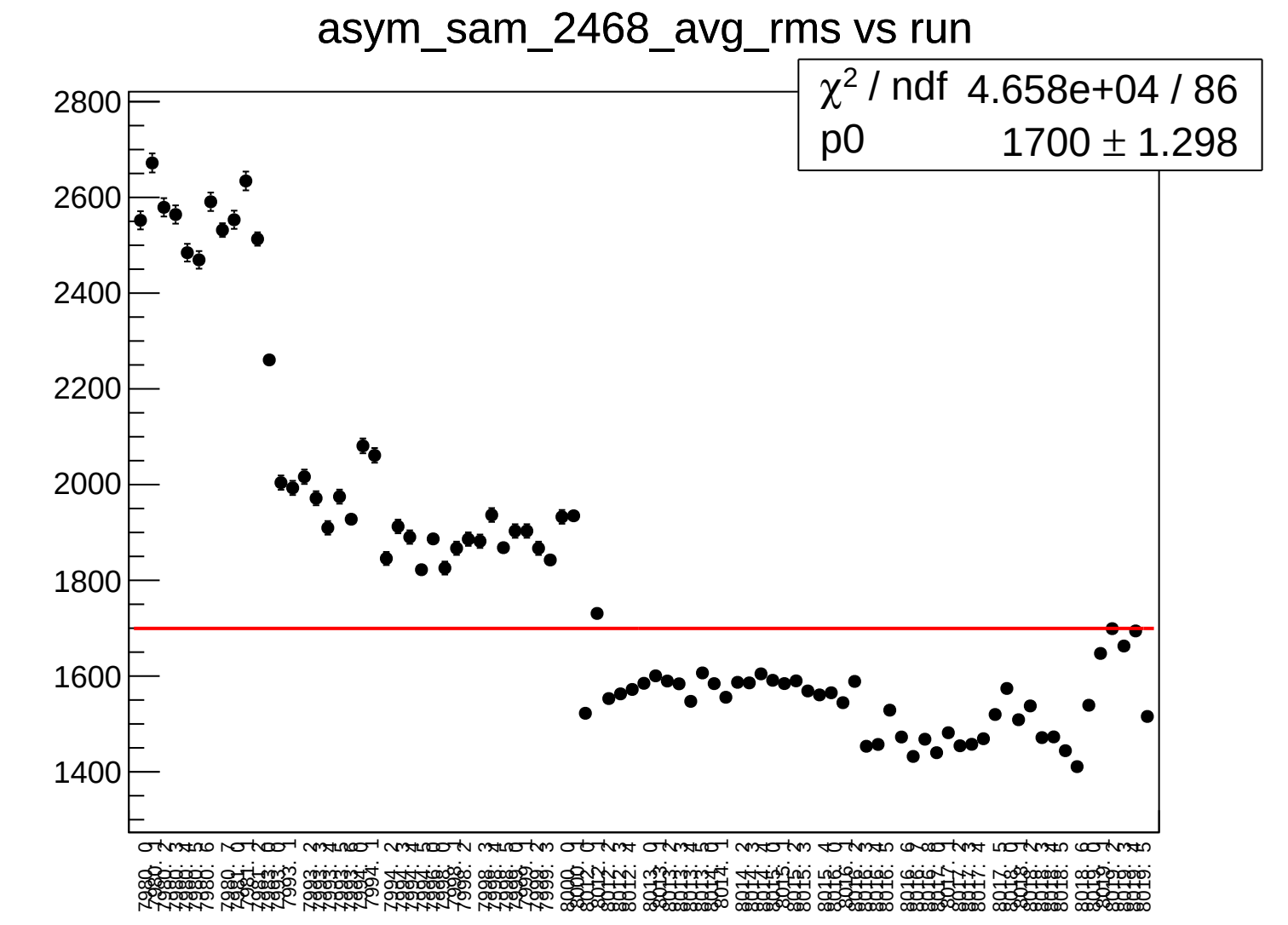

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.393e+05 / 86
p0 164 ± 0.133
400
350
300
250
200
150
100

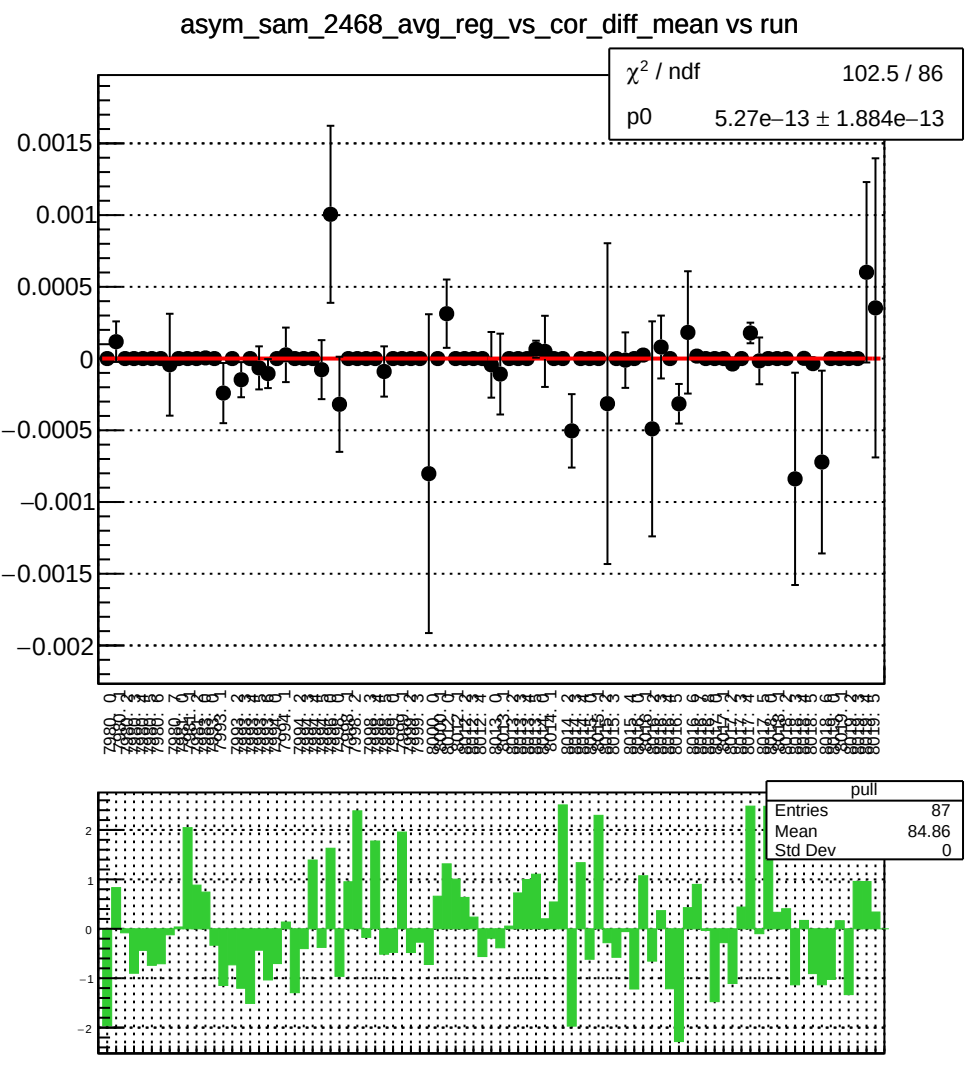

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 120.6 / 86
p0 1351 ± 1890
pull
Entries 87
Mean 822.4
Std Dev 0
pull1D
Entries 87
Mean 0.001558
Std Dev 1.177

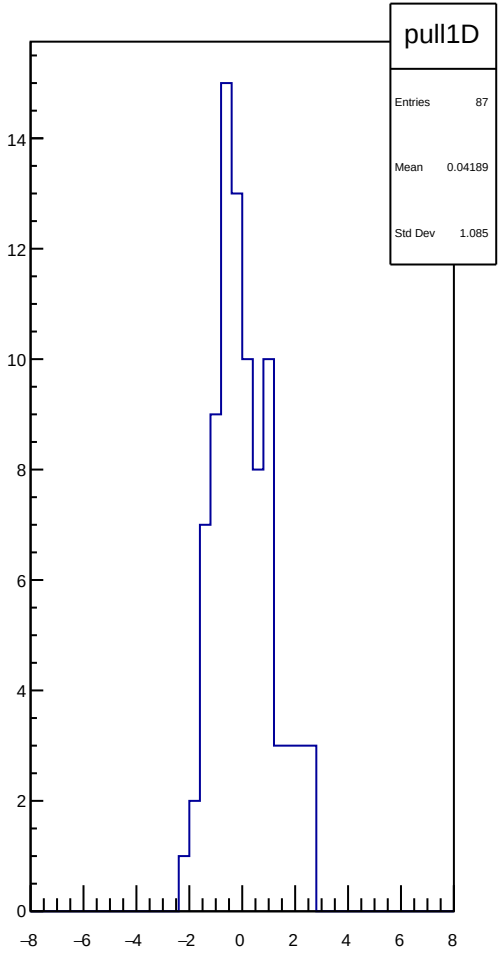

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.914e+04 / 86
p0 1749 ± 1.337
2400
2200
2000
1800
1600
1400

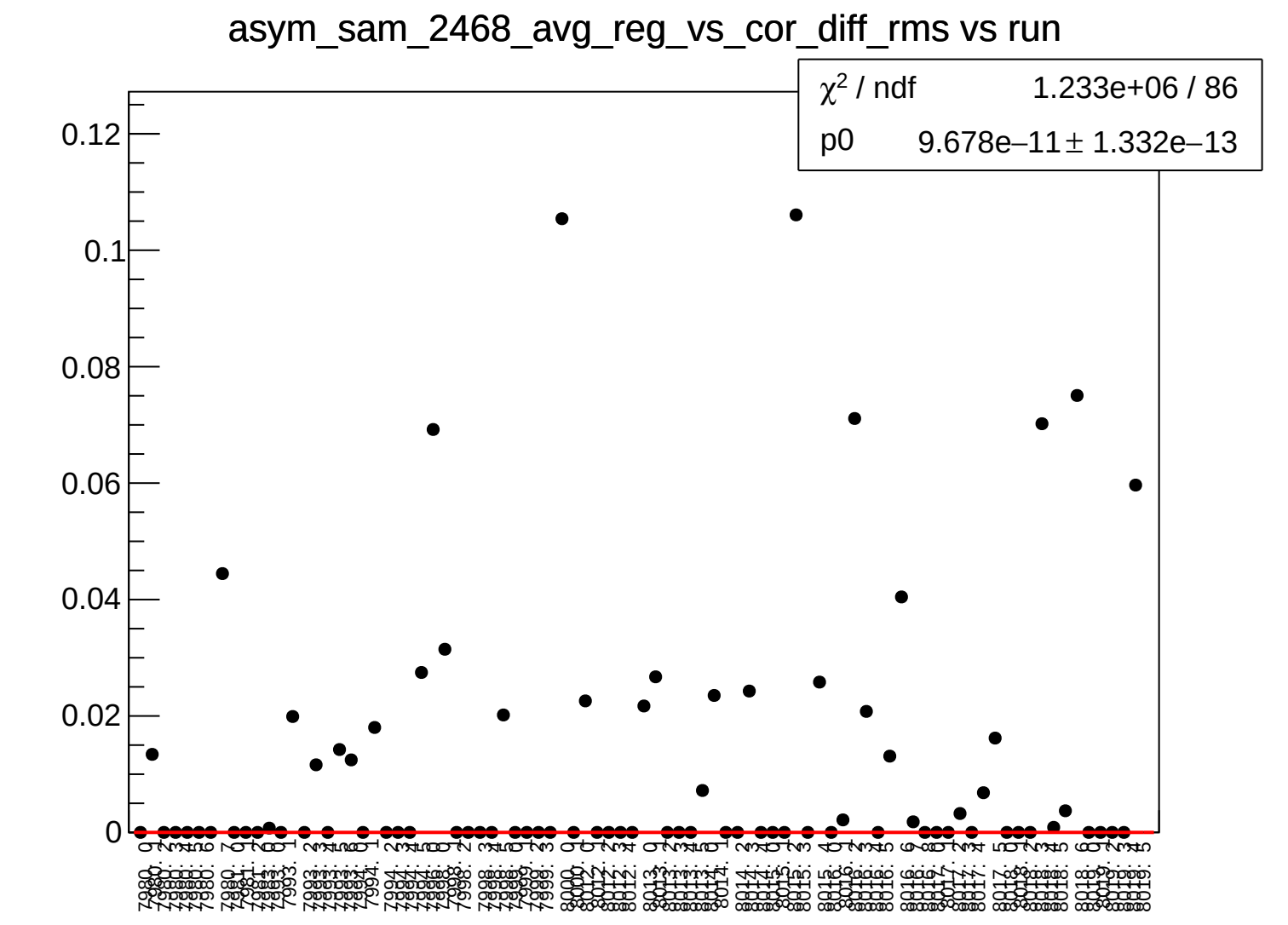

asym_sam_2468_avg_mean vs run
χ² / ndf 120.6 / 86
p0 −1689 ± 1836
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −43.2
Std Dev 0
3
2
1
0
−1
−2
−3

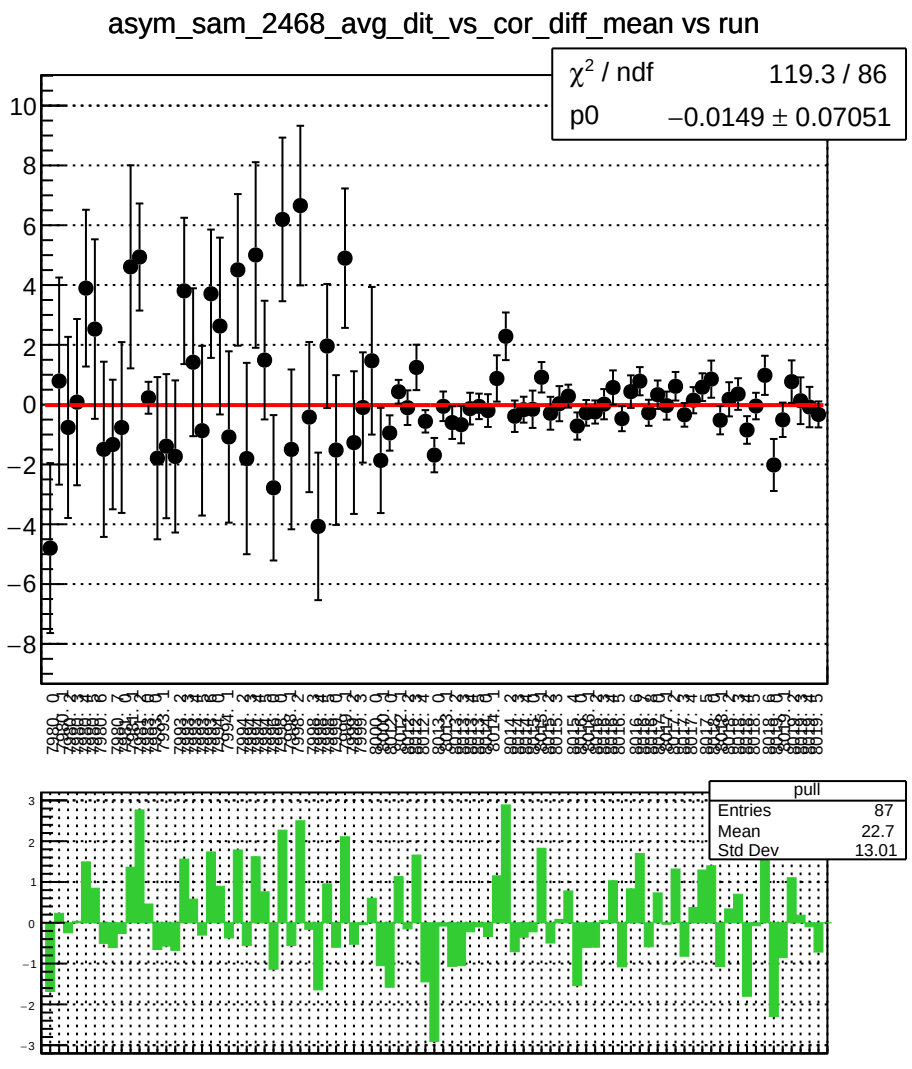

pull1D
Entries 87
Mean 0.01223
Std Dev 1.177
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

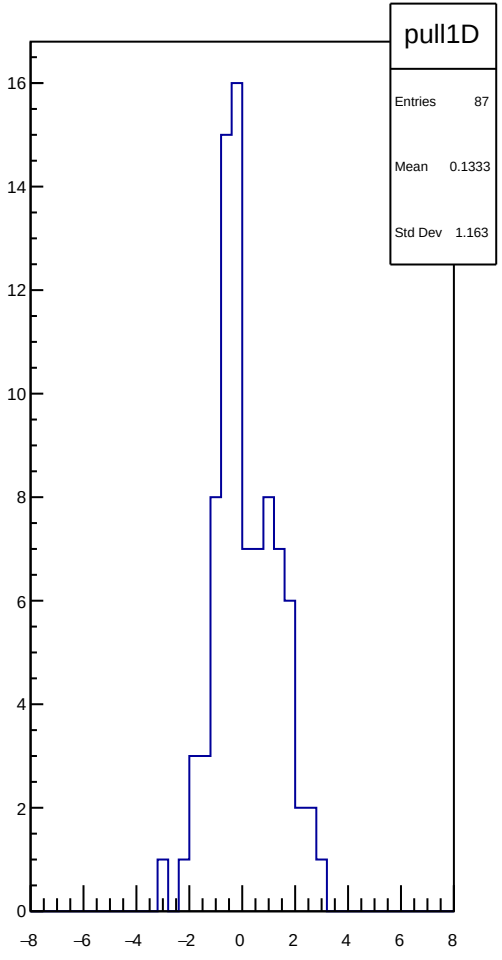

asym_sam_2468_avg_rms vs run
χ^2 / ndf 4.658e+04 / 86
p0 1700 ± 1.298
2800
2600
2400
2200
2000
1800
1600
1400

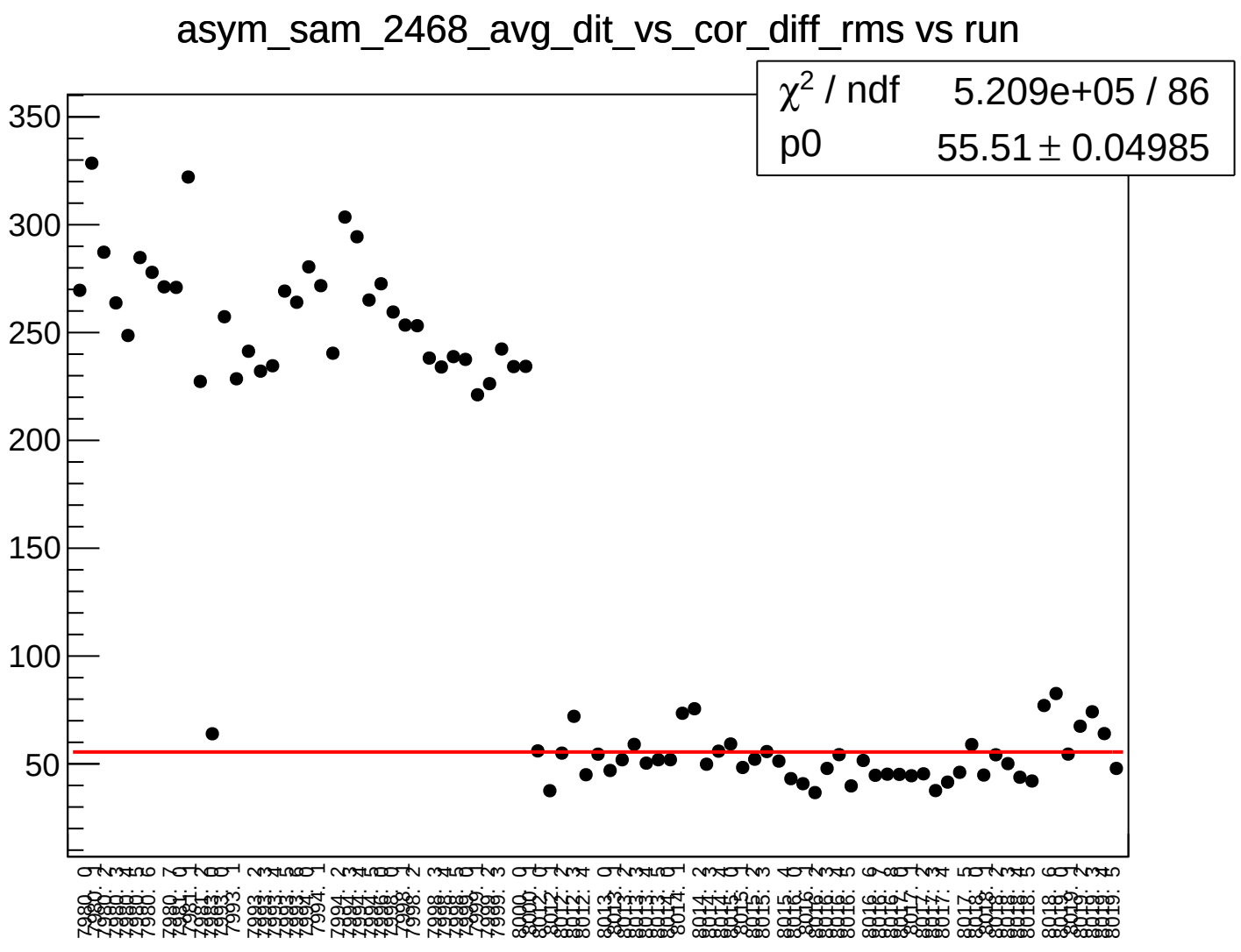

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 86
p0 5.27e−13 ± 1.884e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 87
Mean 84.86
Std Dev 0
2
1
0
−1
−2

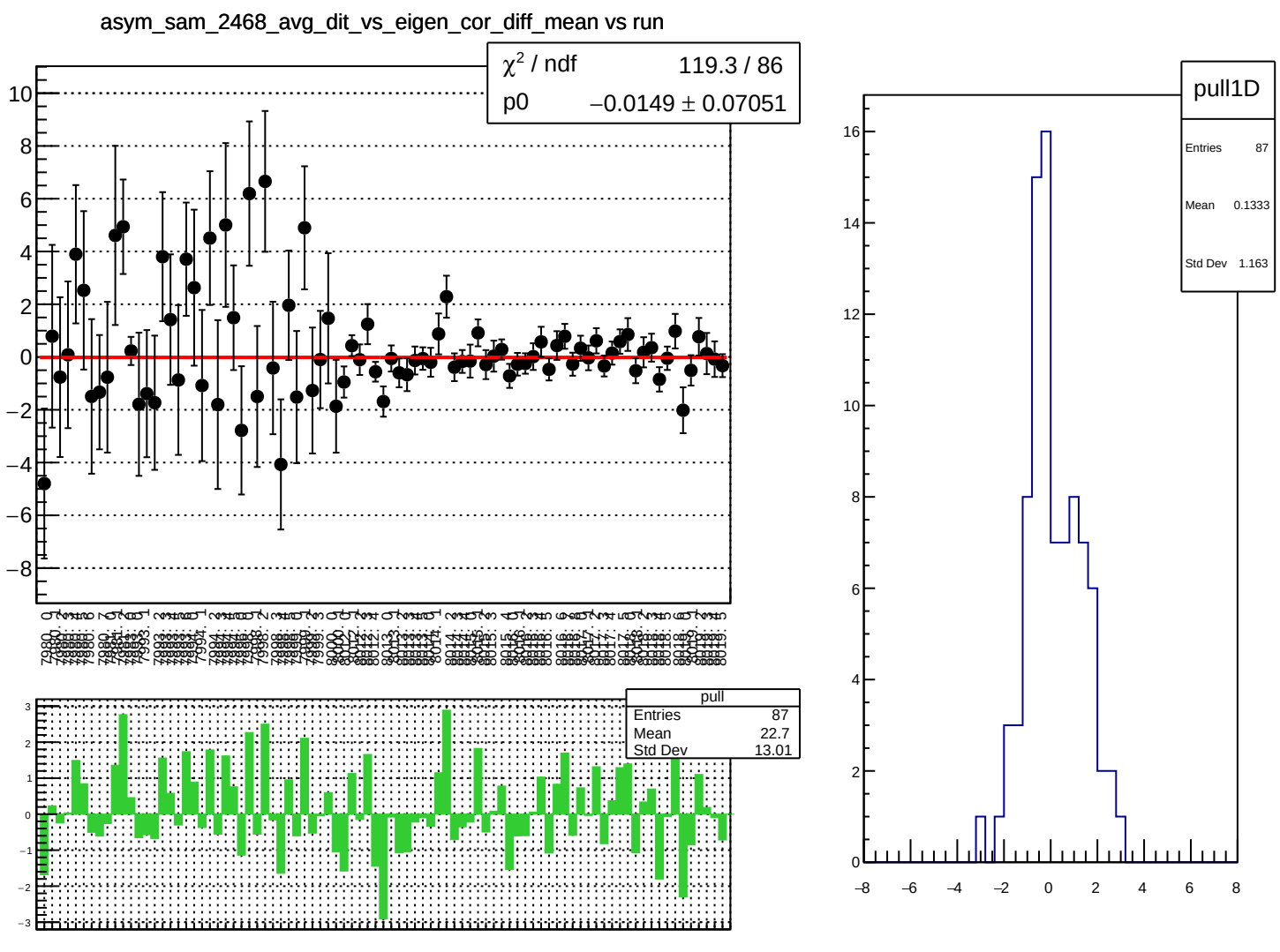

pull1D
Entries 87
Mean 0.04189
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

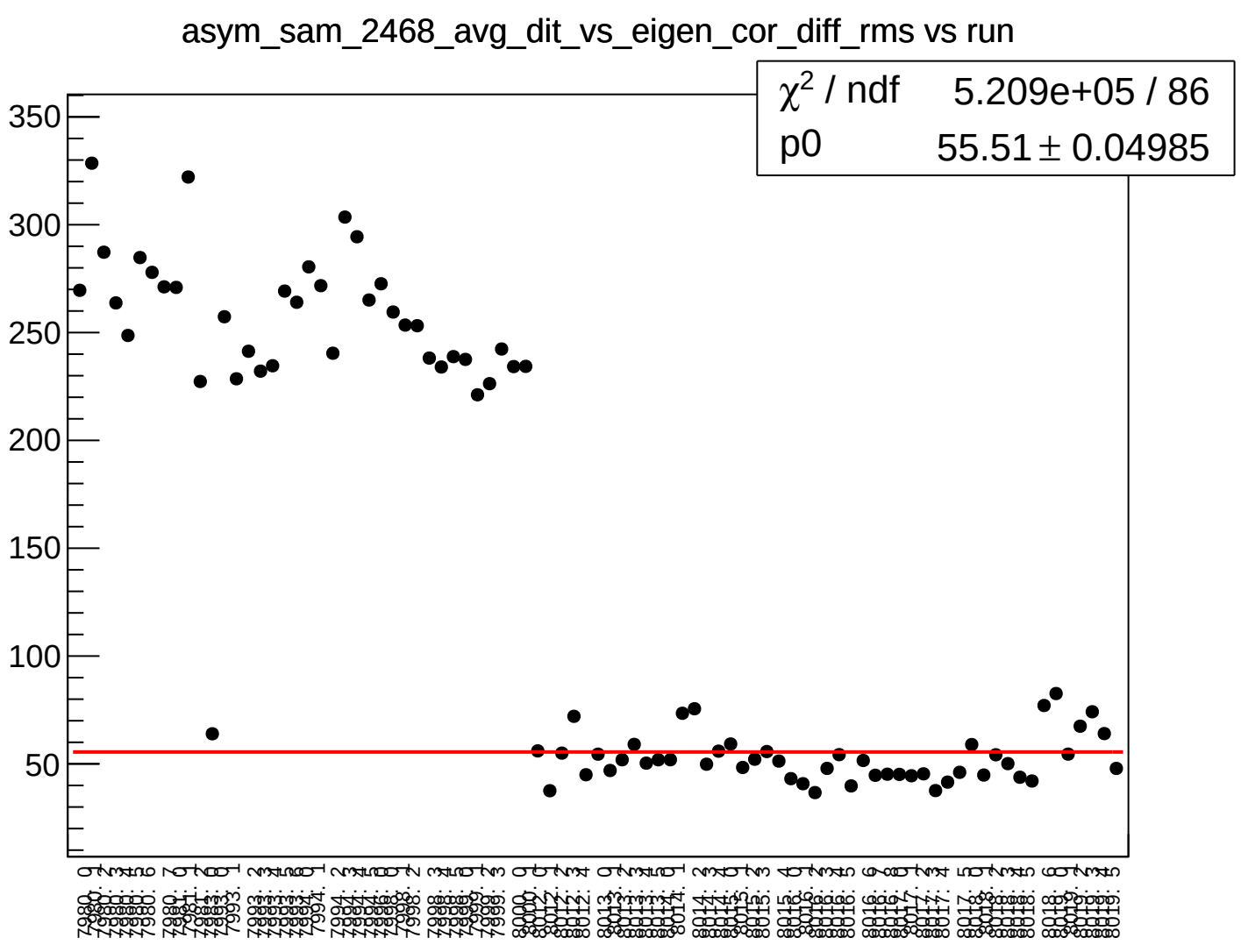

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.233e+06 / 86
p0 9.678e−11 ± 1.332e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

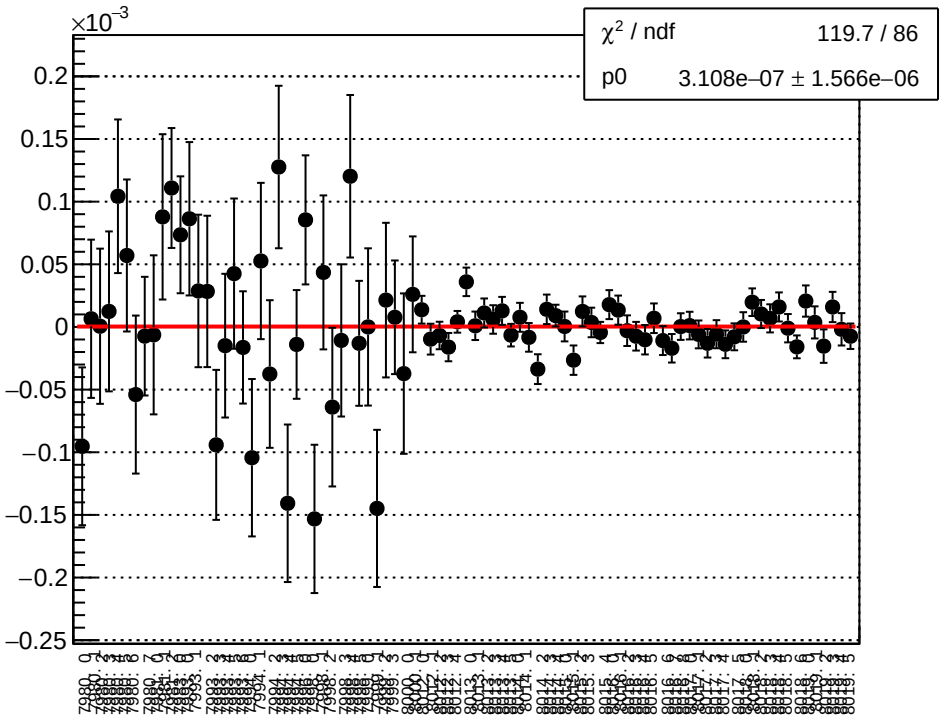

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 119.3 / 86
p0 −0.0149 ± 0.07051
pull
Entries 87
Mean 22.7
Std Dev 13.01

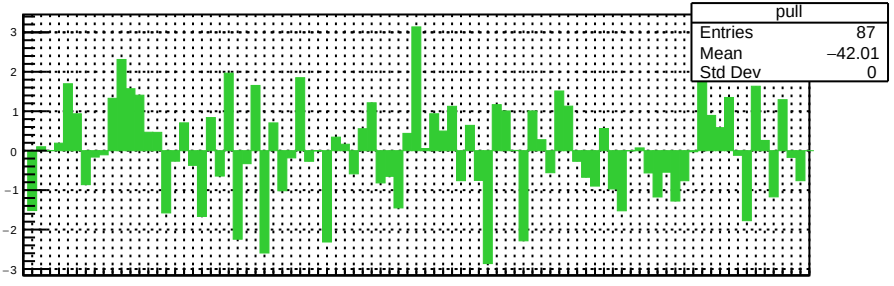

pull1D
Entries 87
Mean 0.1333
Std Dev 1.163

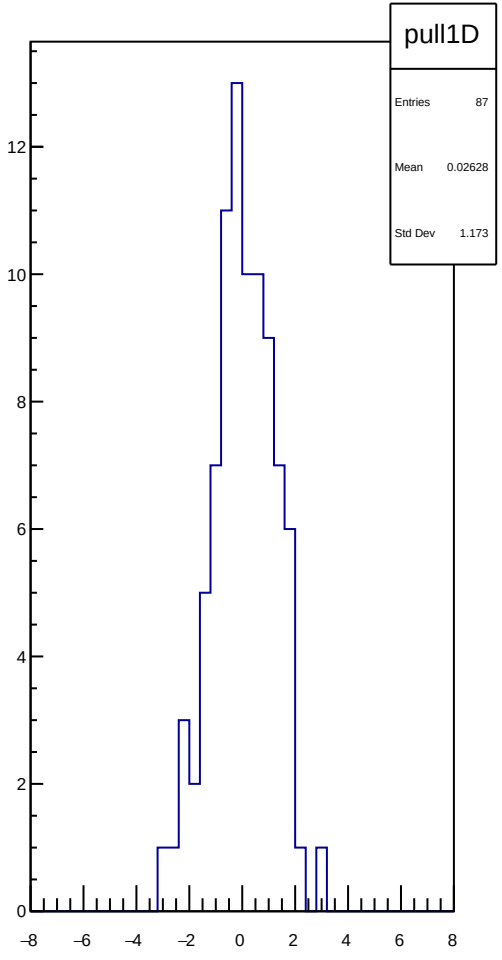

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.209e+05 / 86
p0 55.51 ± 0.04985
350
300
250
200
150
100
50

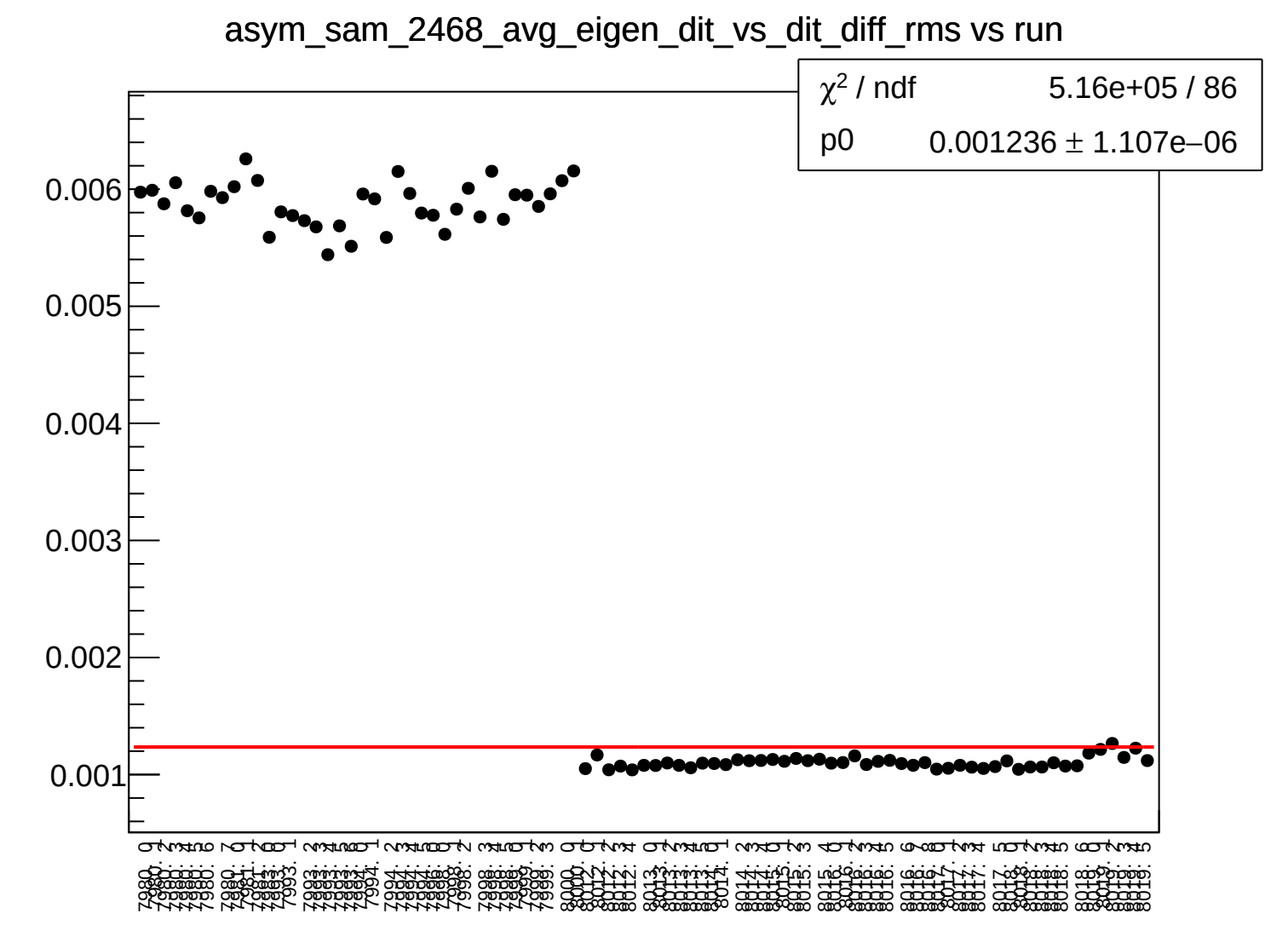

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.3 / 86
p0 −0.0149 ± 0.07051
pull
Entries 87
Mean 22.7
Std Dev 13.01
pull1D
Entries 87
Mean 0.1333
Std Dev 1.163

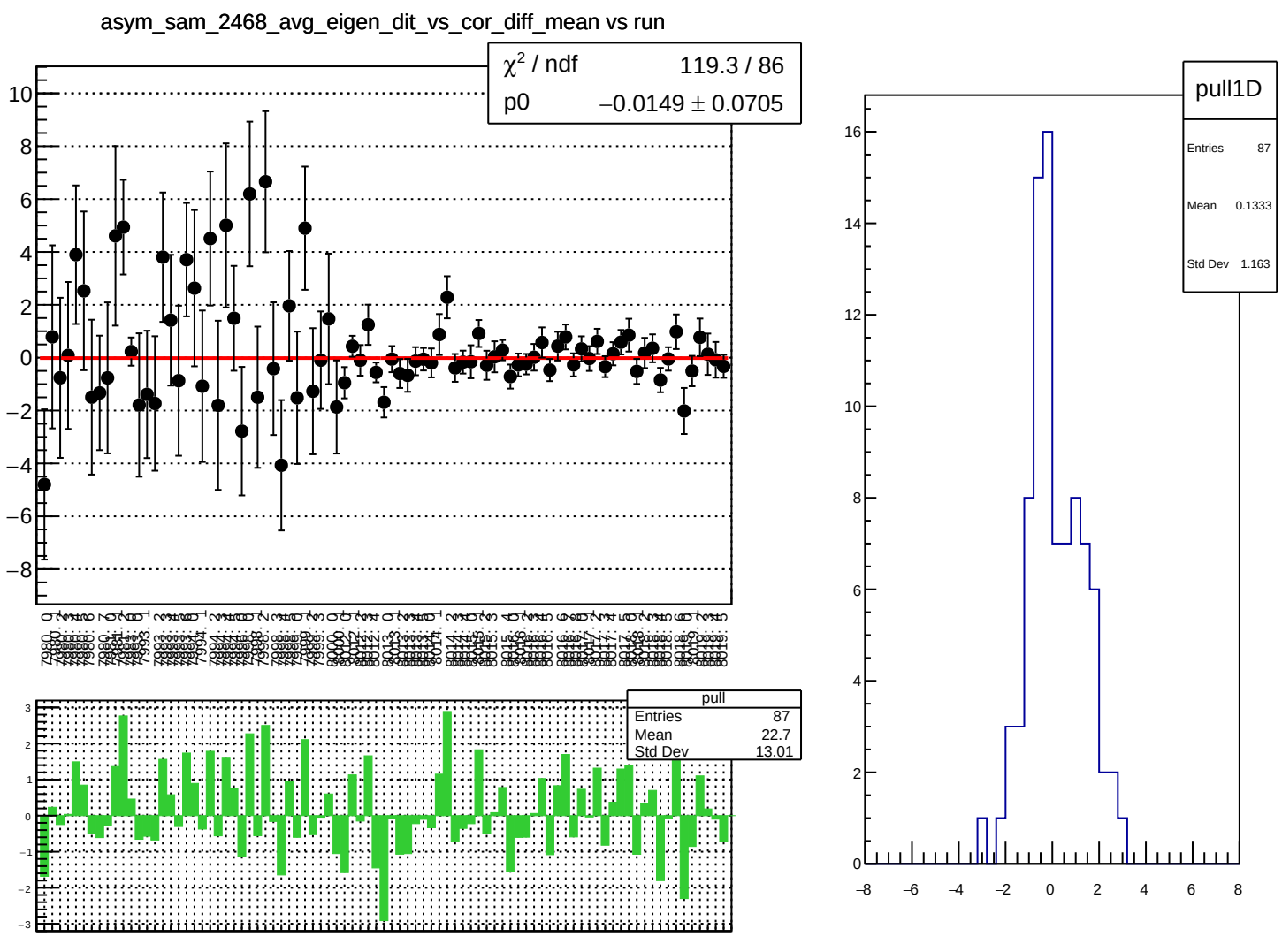

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.209e+05 / 86
p0 55.51 ± 0.04985
350
300
250
200
150
100
50

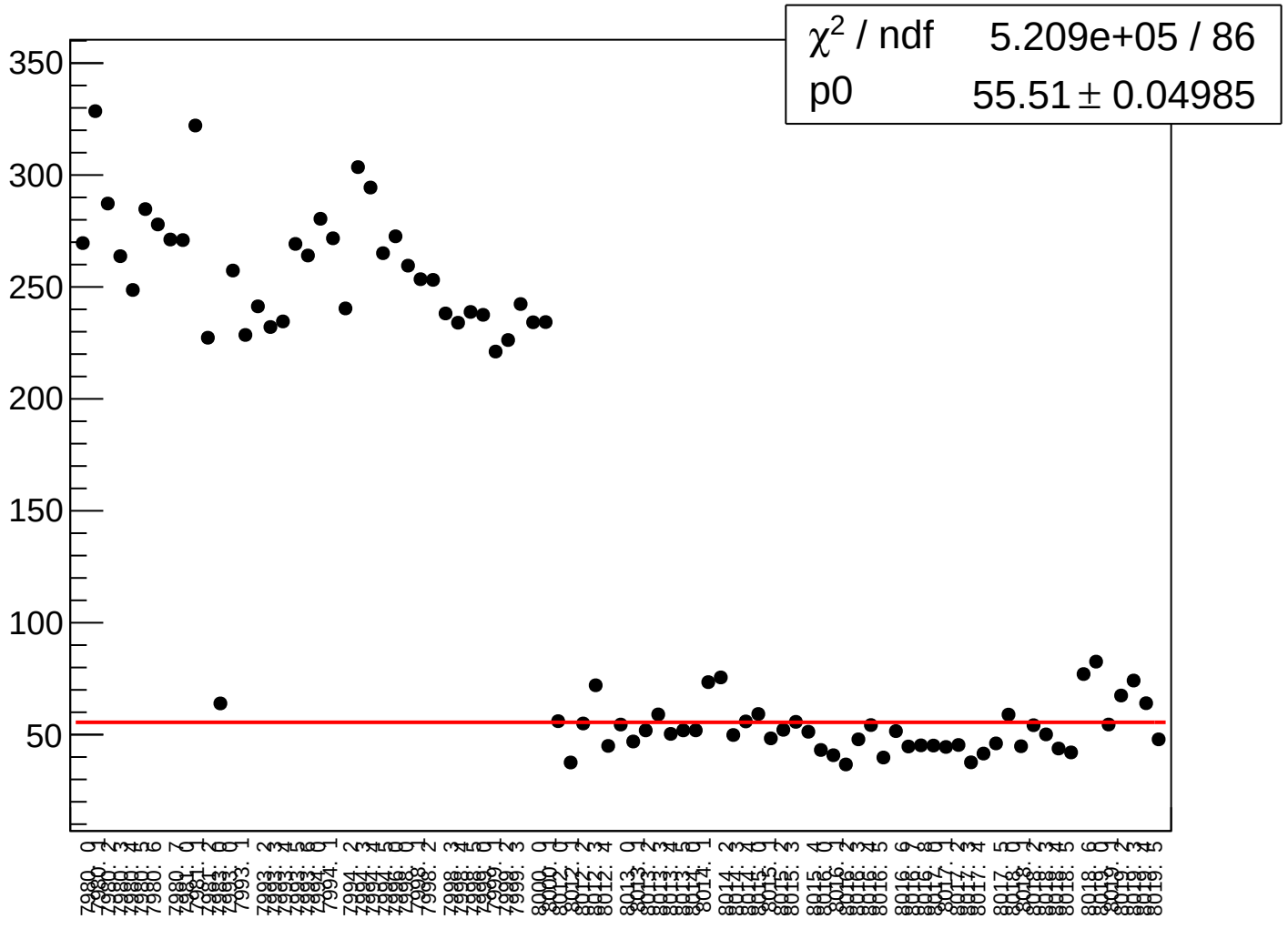

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 119.7 / 86
p0 3.108e−07 ± 1.566e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25

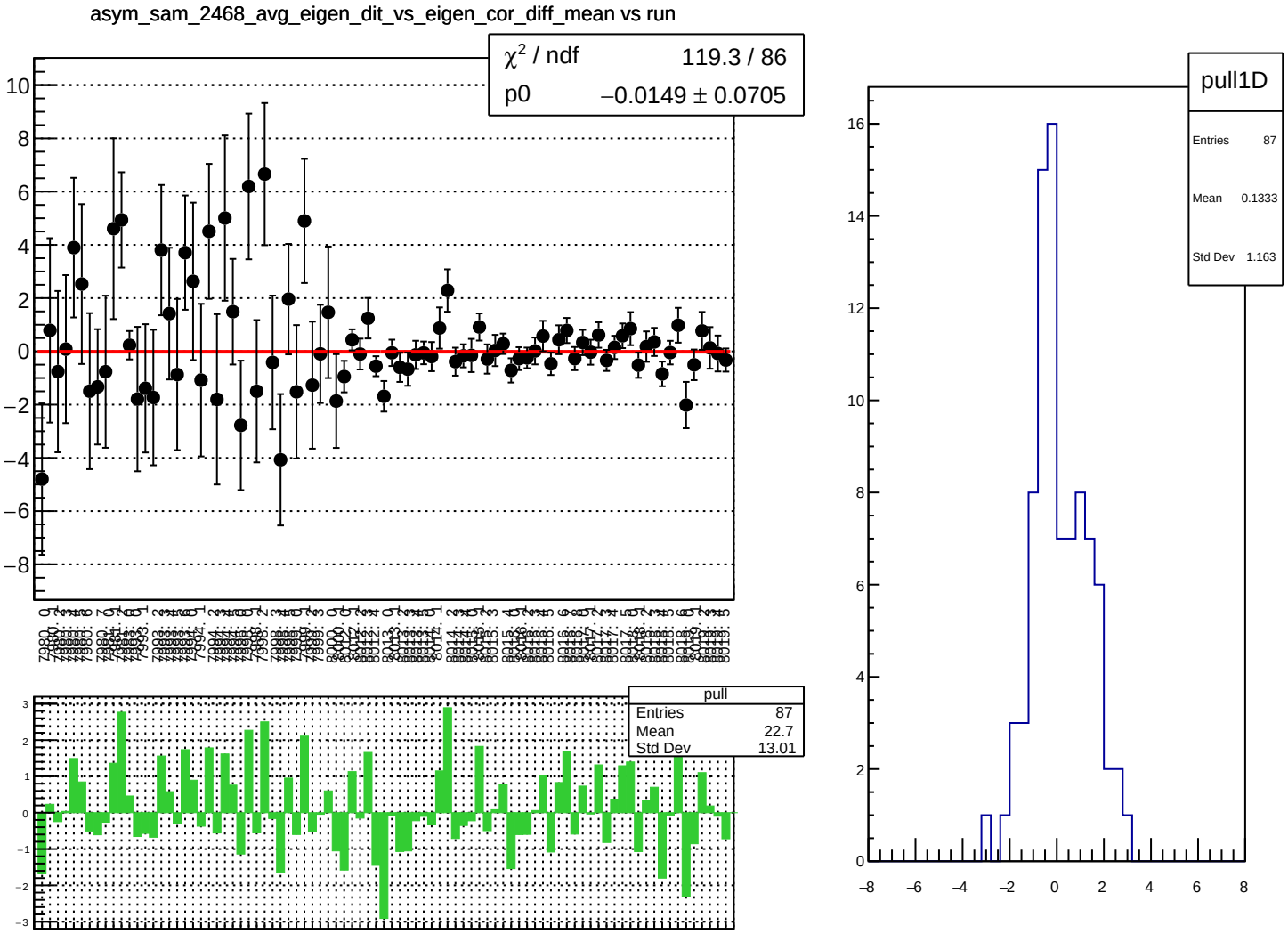

pull
Entries 87
Mean −42.01
Std Dev 0
3
2
1
0
−1
−2
−3

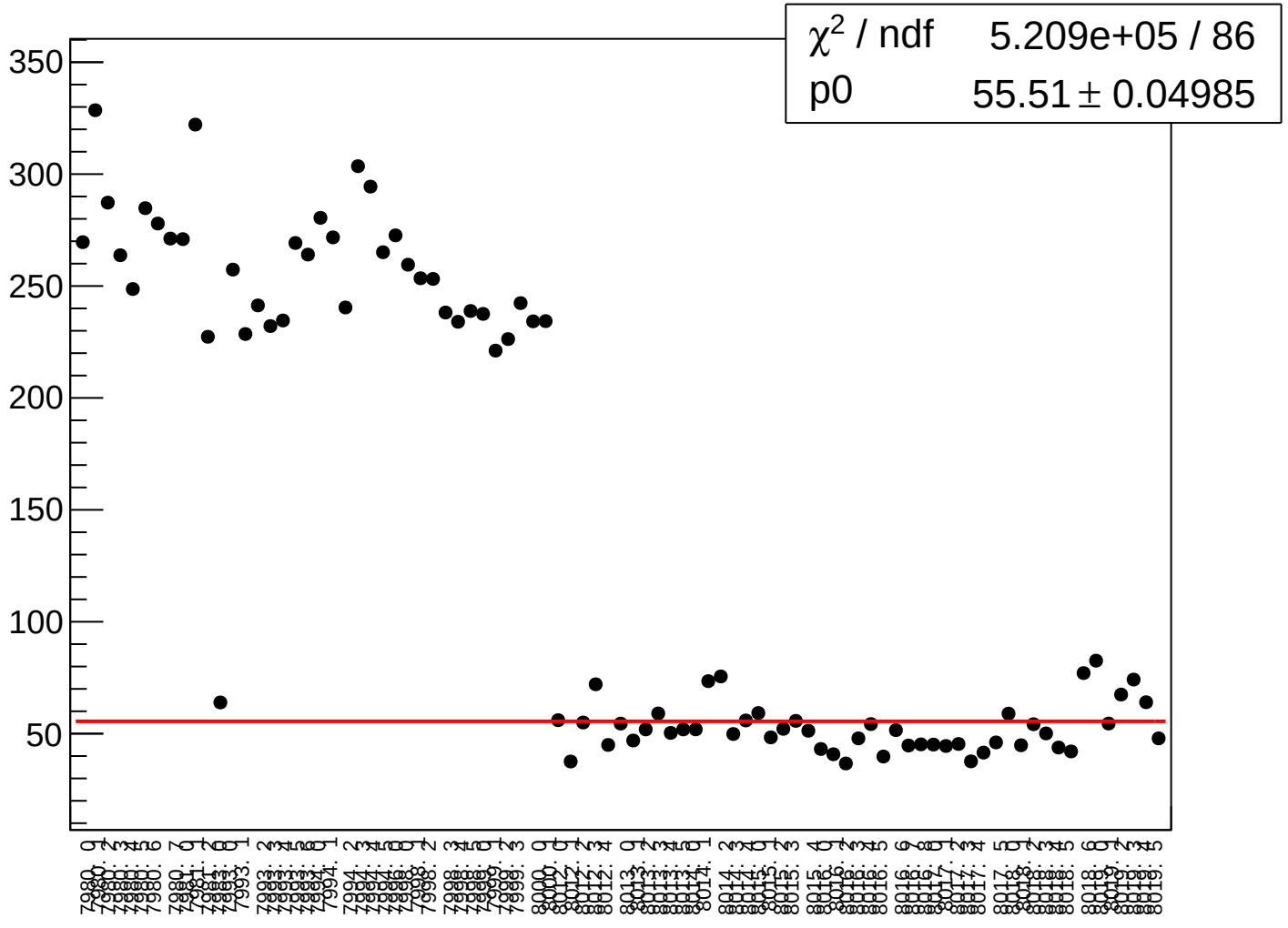

pull1D
Entries 87
Mean 0.02628
Std Dev 1.173
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

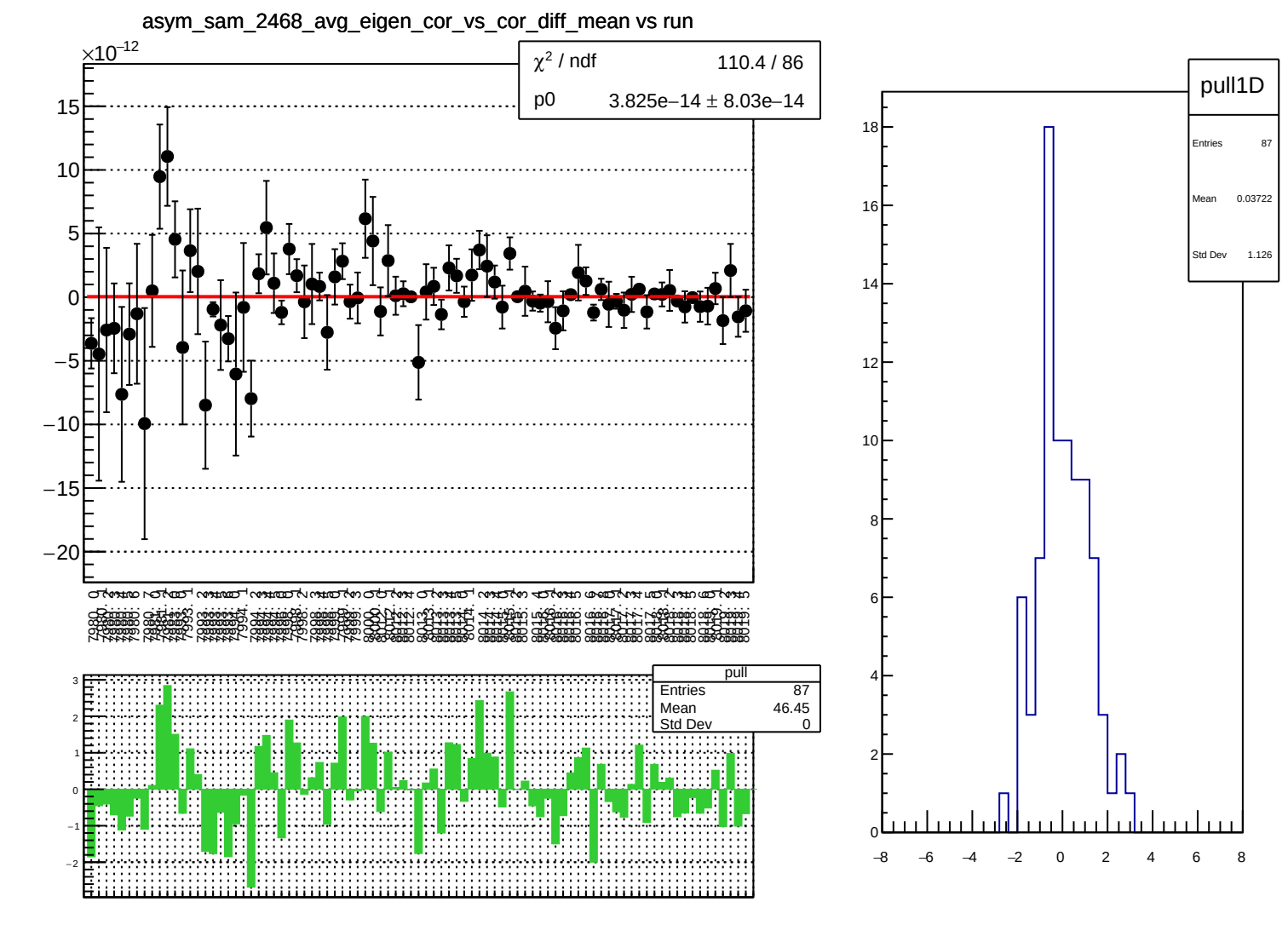

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.16e+05 / 86
p0 0.001236 ± 1.107e−06
0.006
0.005
0.004
0.003
0.002
0.001

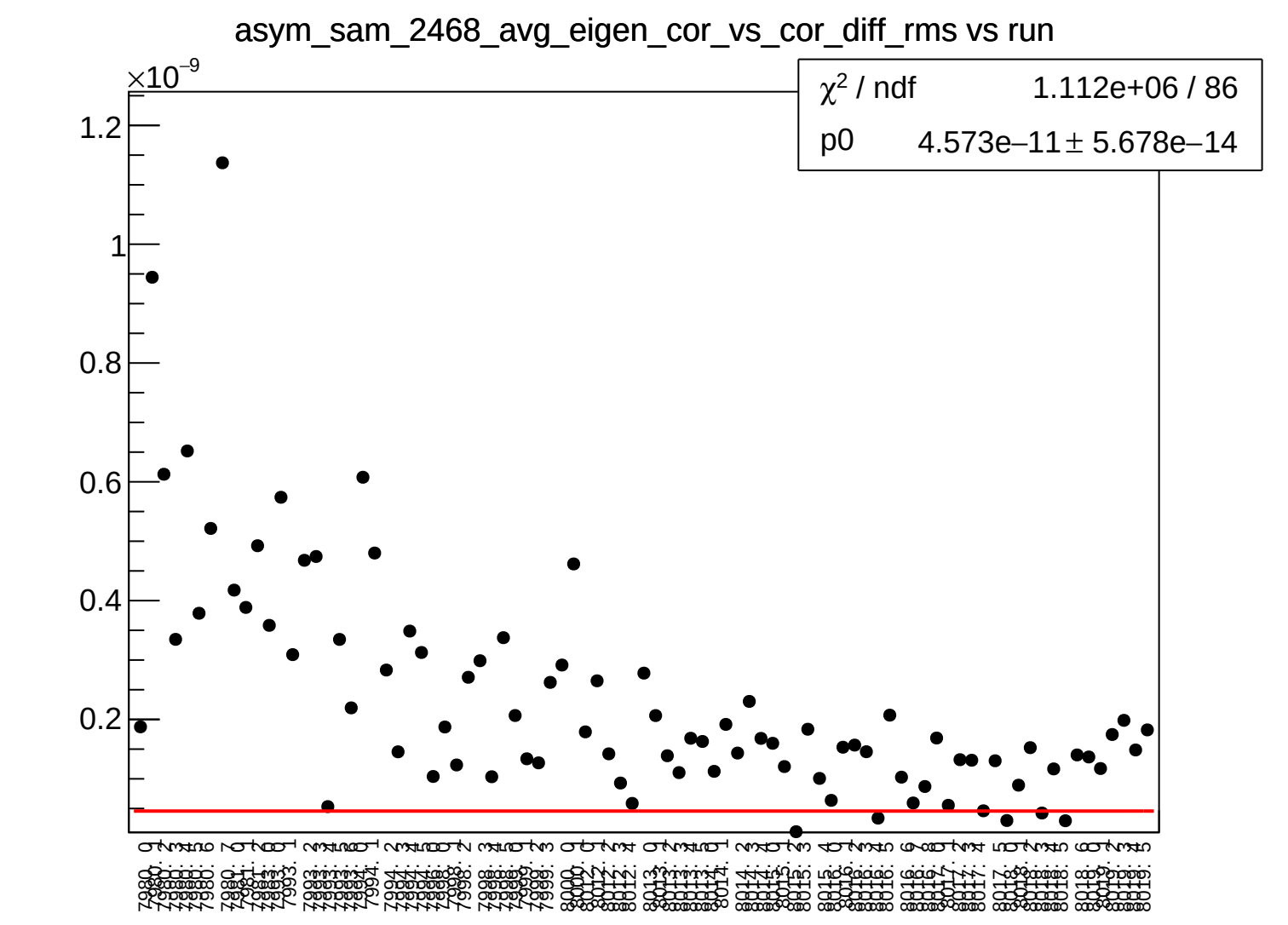

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.3 / 86
p0 −0.0149 ± 0.0705
pull
Entries 87
Mean 22.7
Std Dev 13.01
pull1D
Entries 87
Mean 0.1333
Std Dev 1.163

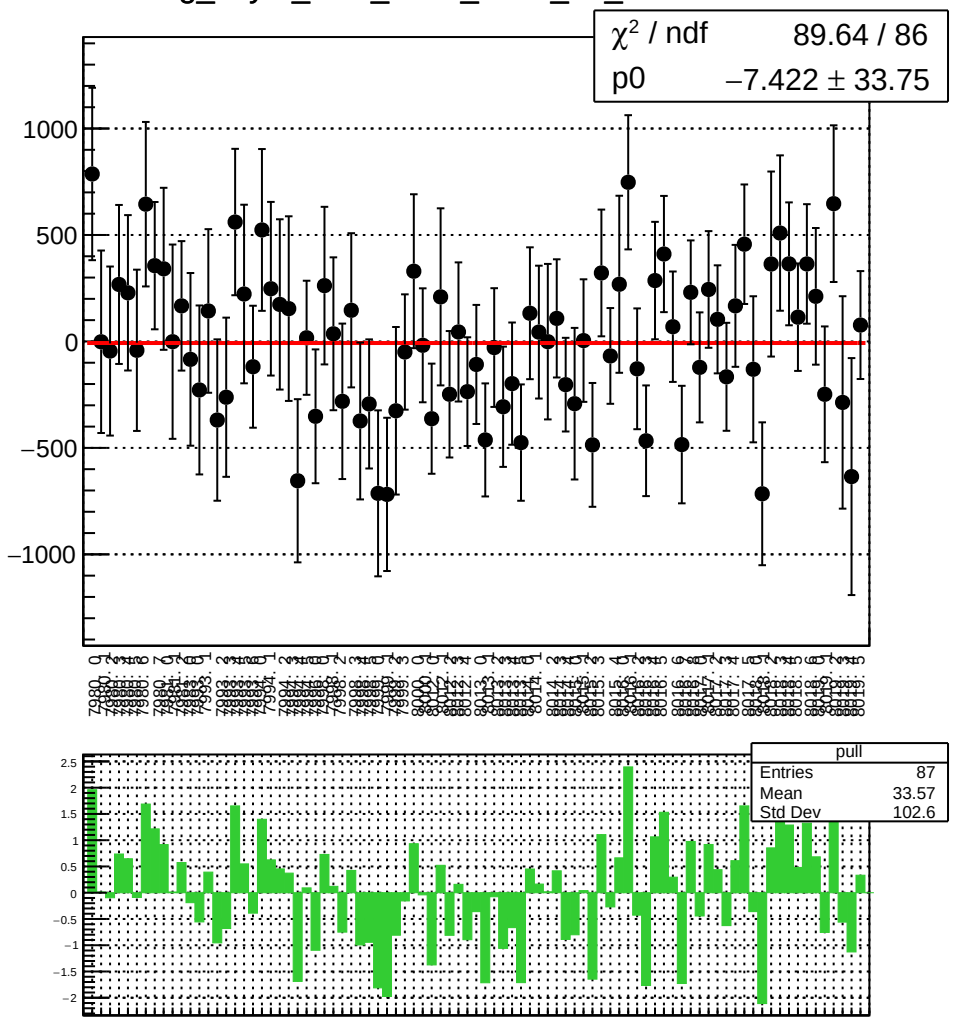

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.209e+05 / 86
p0 55.51 ± 0.04985
350
300
250
200
150
100
50

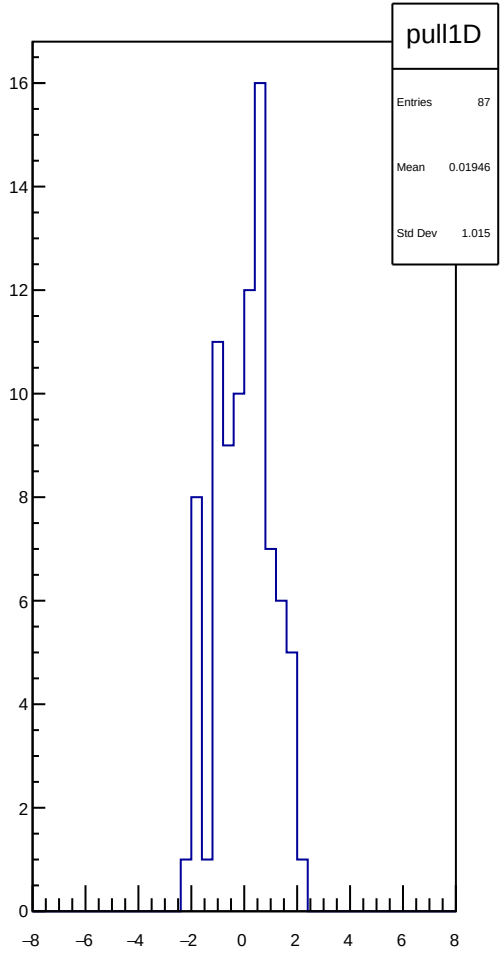

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.3 / 86
p0 −0.0149 ± 0.0705
pull
Entries 87
Mean 22.7
Std Dev 13.01
pull1D
Entries 87
Mean 0.1333
Std Dev 1.163

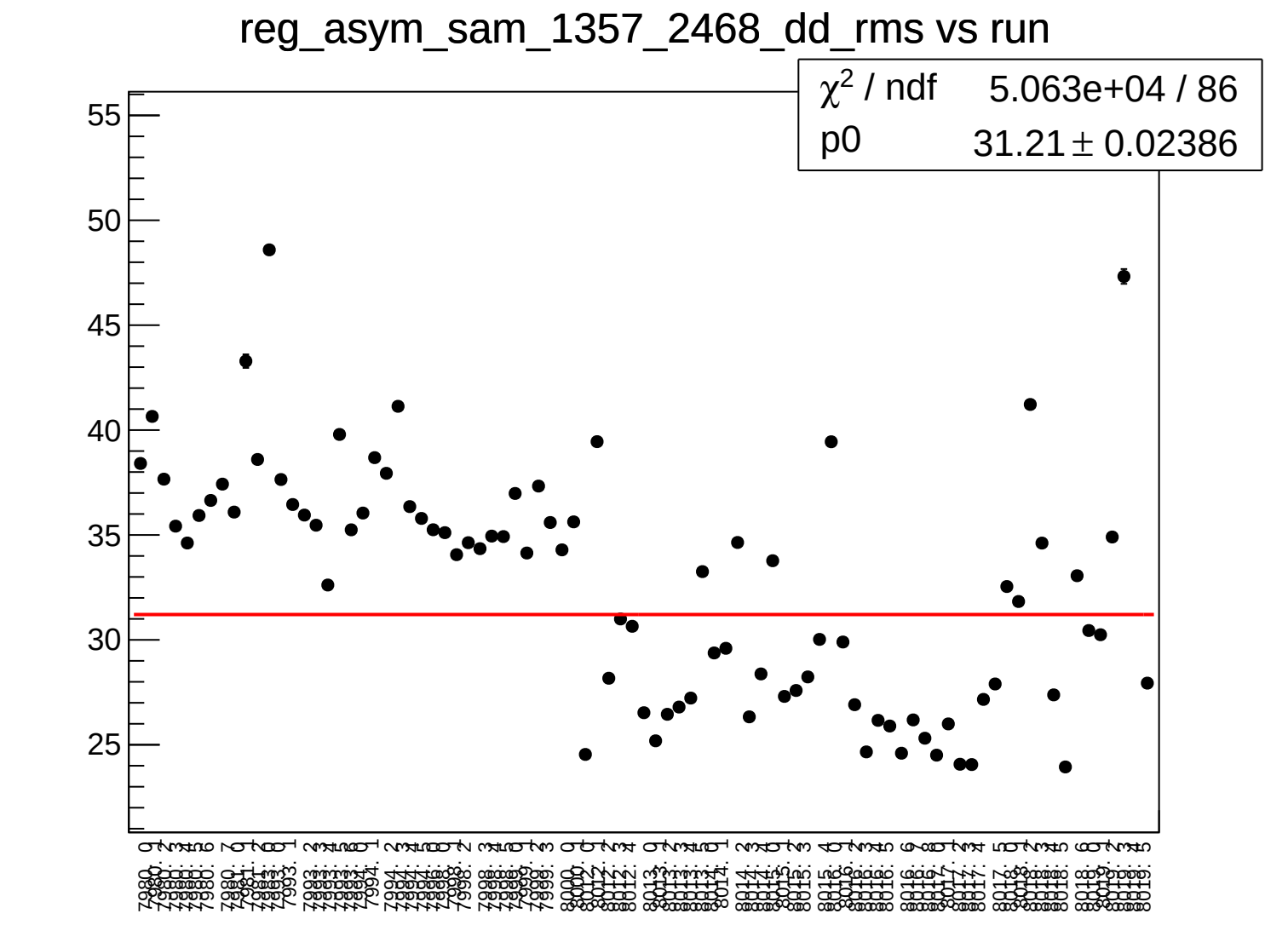

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.209e+05 / 86
p0 55.51 ± 0.04985
350
300
250
200
150
100
50

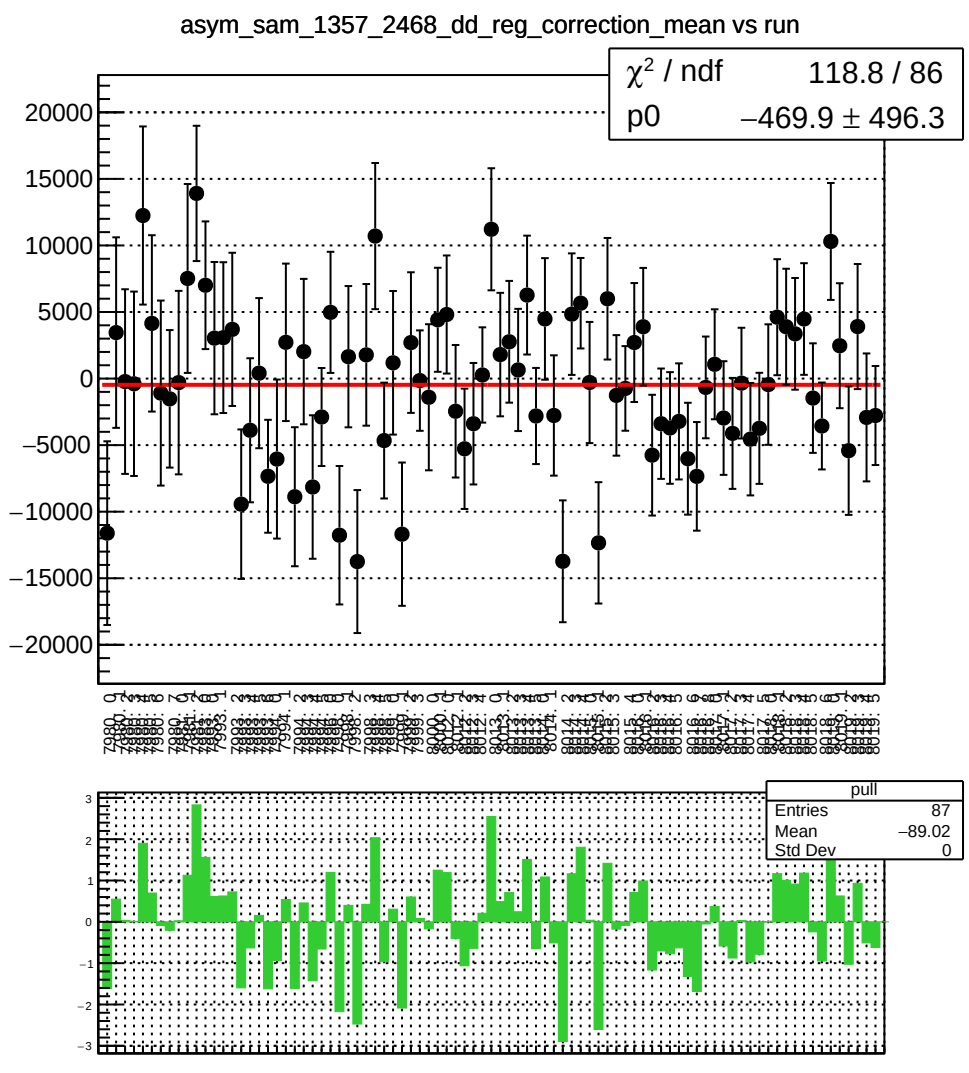

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.4 / 86
p0 3.825e−14 ± 8.03e−14
pull
Entries 87
Mean 46.45
Std Dev 0
pull1D
Entries 87
Mean 0.03722
Std Dev 1.126

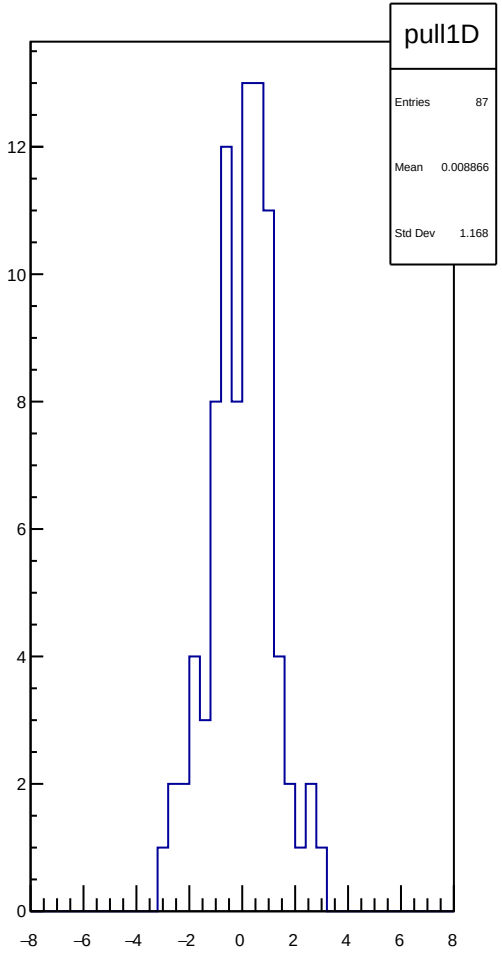

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.112e+06 / 86
p0 4.573e−11 ± 5.678e−14
1.2
1
0.8
0.6
0.4
0.2

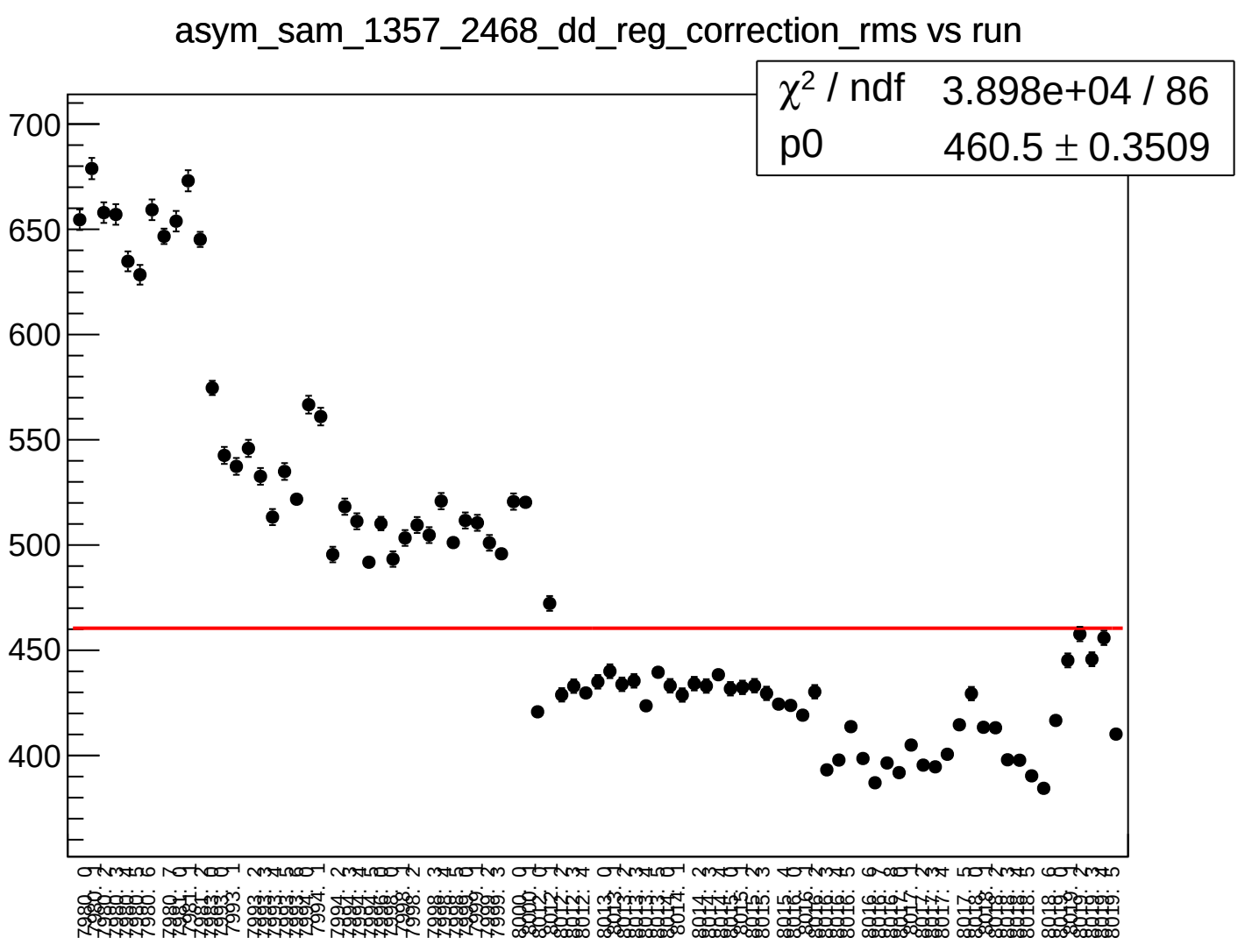

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 89.64 / 86
p0 −7.422 ± 33.75
1000
500
0
−500
−1000
pull
Entries 87
Mean 33.57
Std Dev 102.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

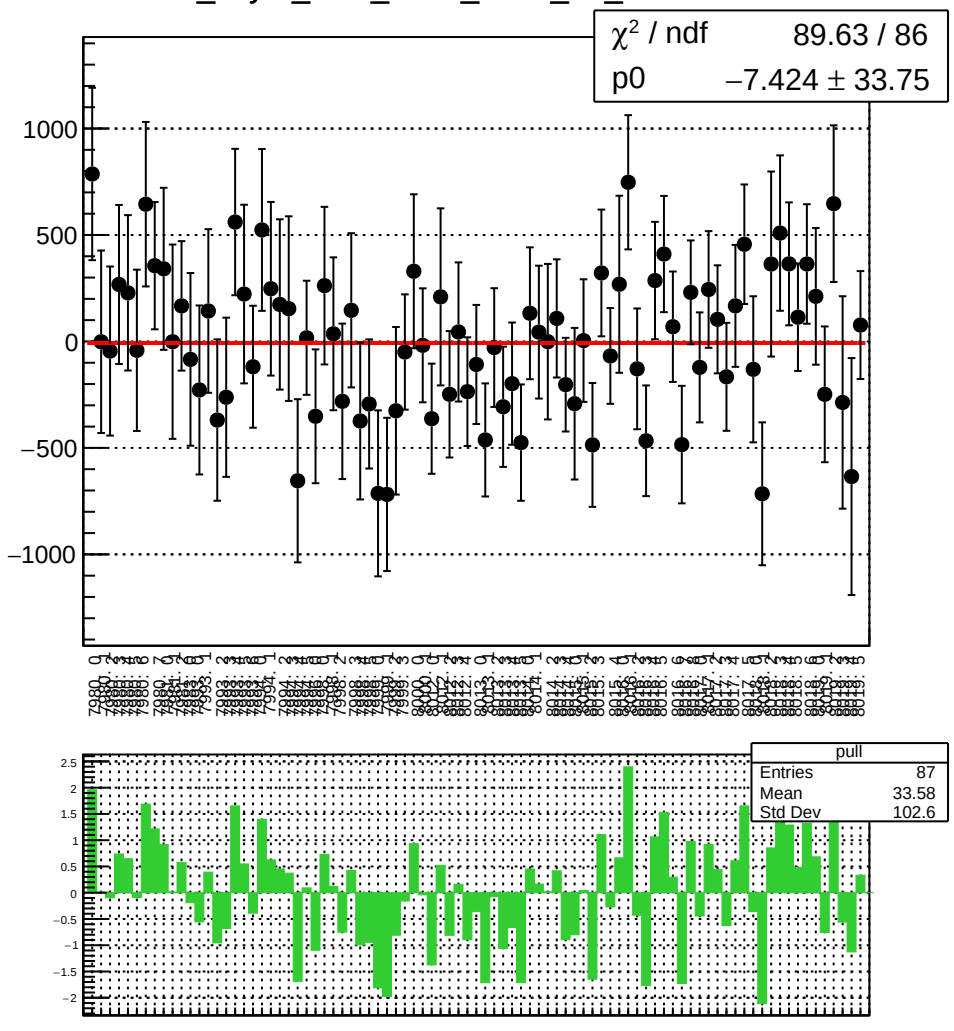

pull1D
Entries 87
Mean 0.01946
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

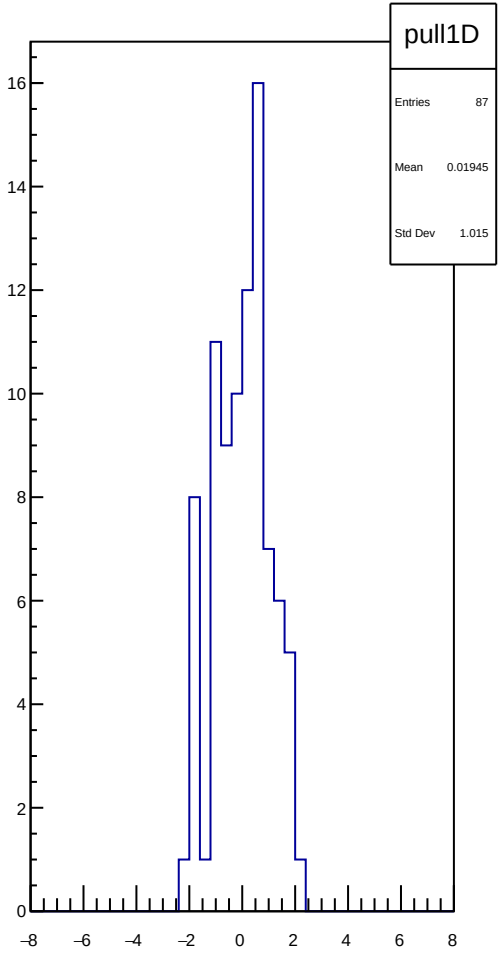

reg_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 5.063e+04 / 86
p0 31.21 ± 0.02386
55
50
45
40
35
30
25

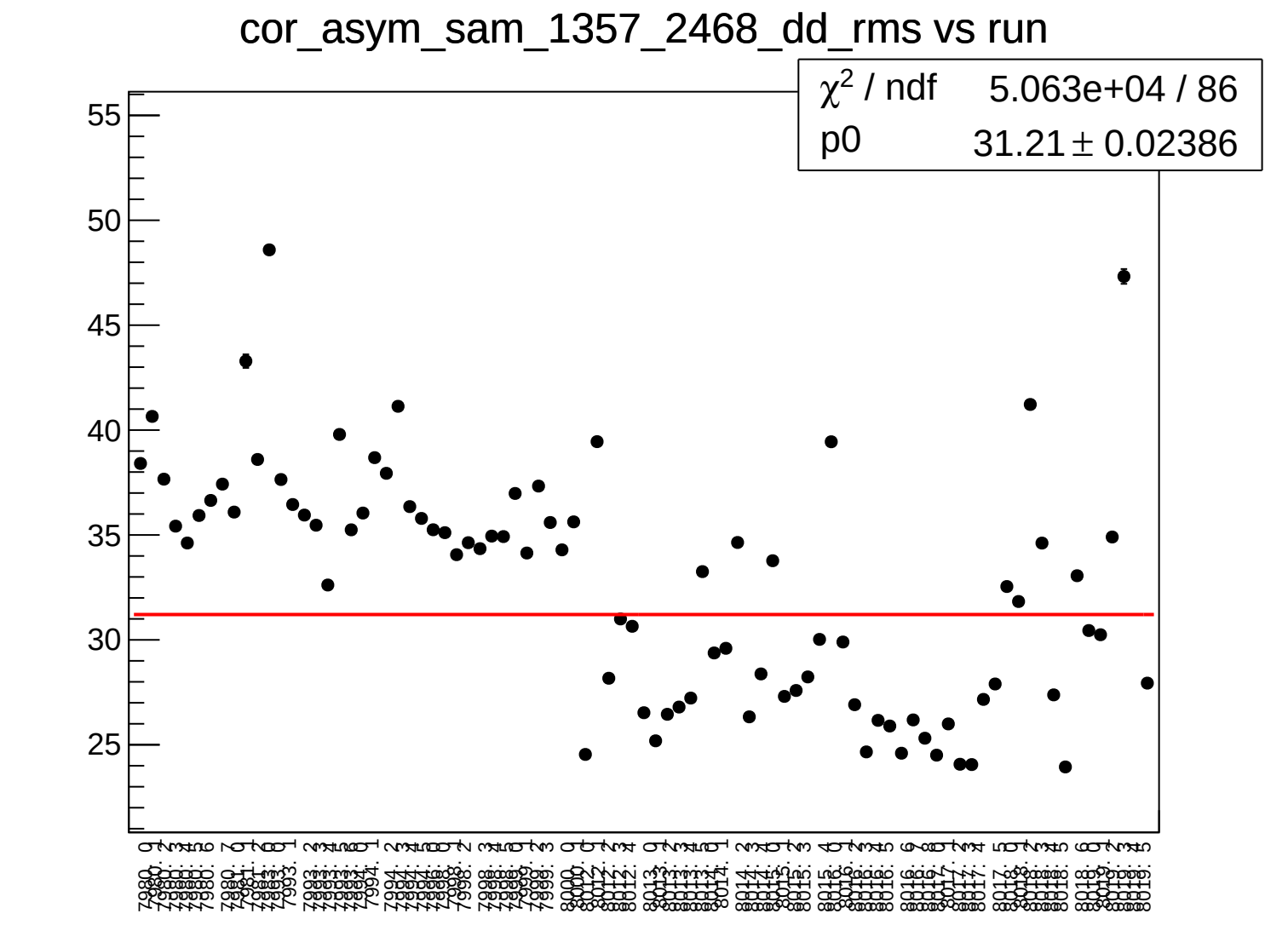

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 118.8 / 86
p0 −469.9 ± 496.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 87
Mean −89.02
Std Dev 0
3
2
1
0
−1
−2
−3

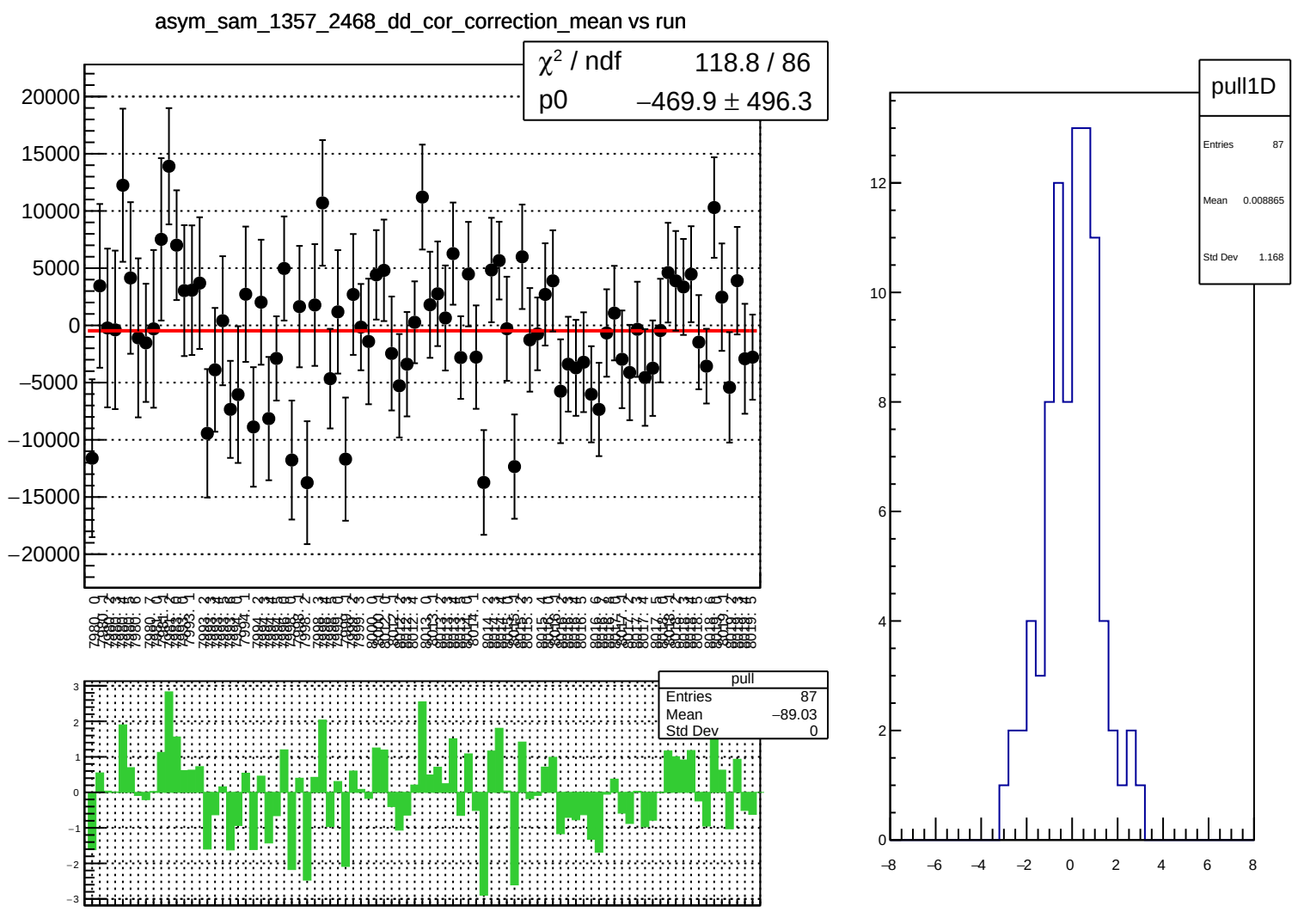

pull1D
Entries 87
Mean 0.008866
Std Dev 1.168
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

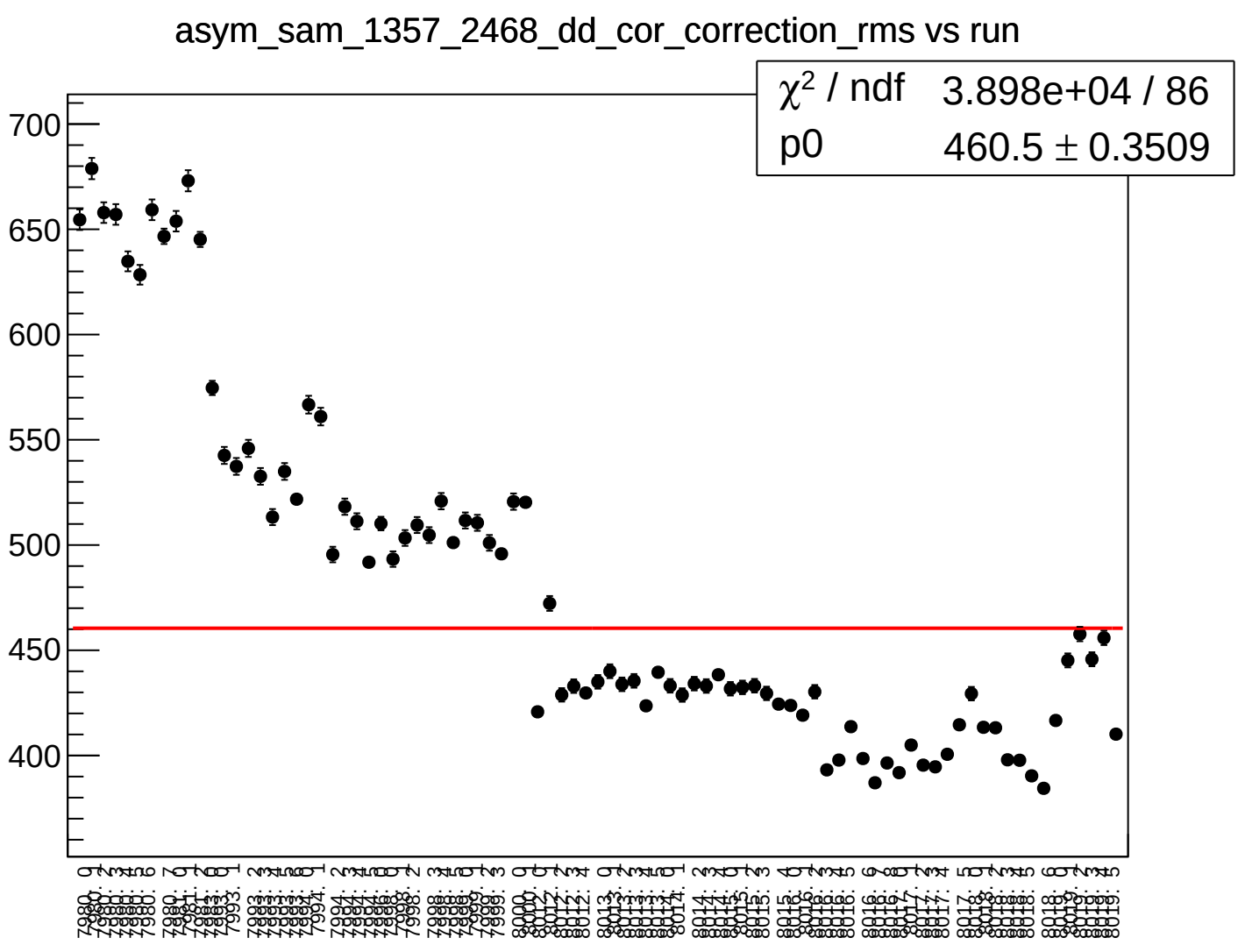

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 3.898e+04 / 86
p0 460.5 ± 0.3509
700
650
600
550
500
450
400

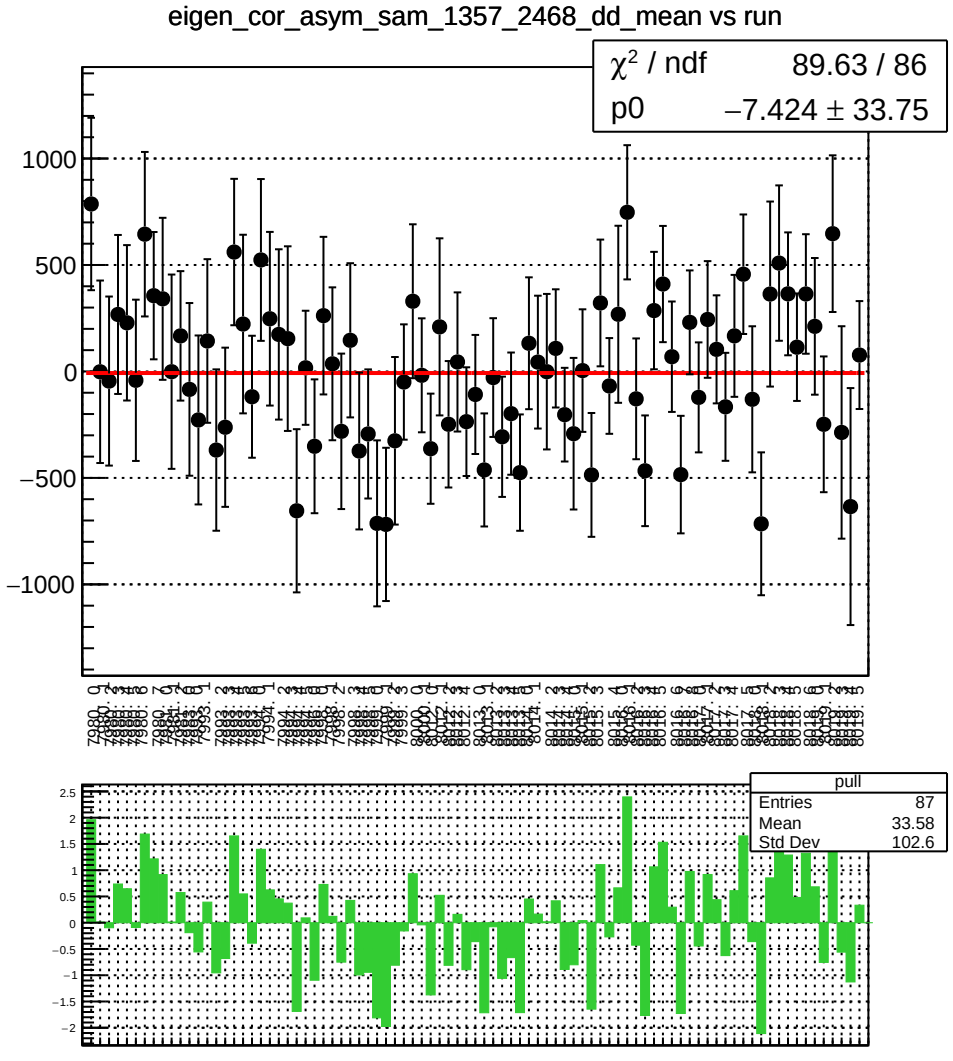

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 89.63 / 86
p0 −7.424 ± 33.75
1000
500
0
−500
−1000
pull
Entries 87
Mean 33.58
Std Dev 102.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

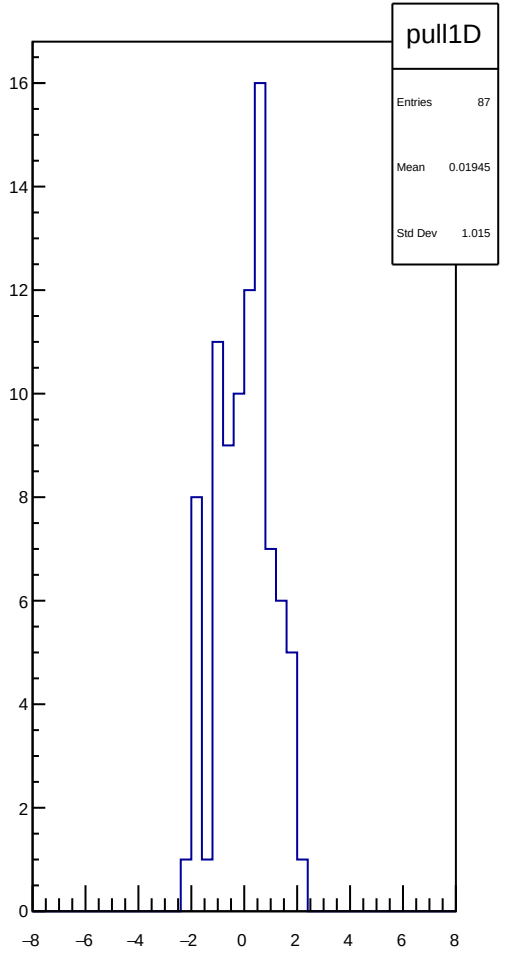

pull1D
Entries 87
Mean 0.01945
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

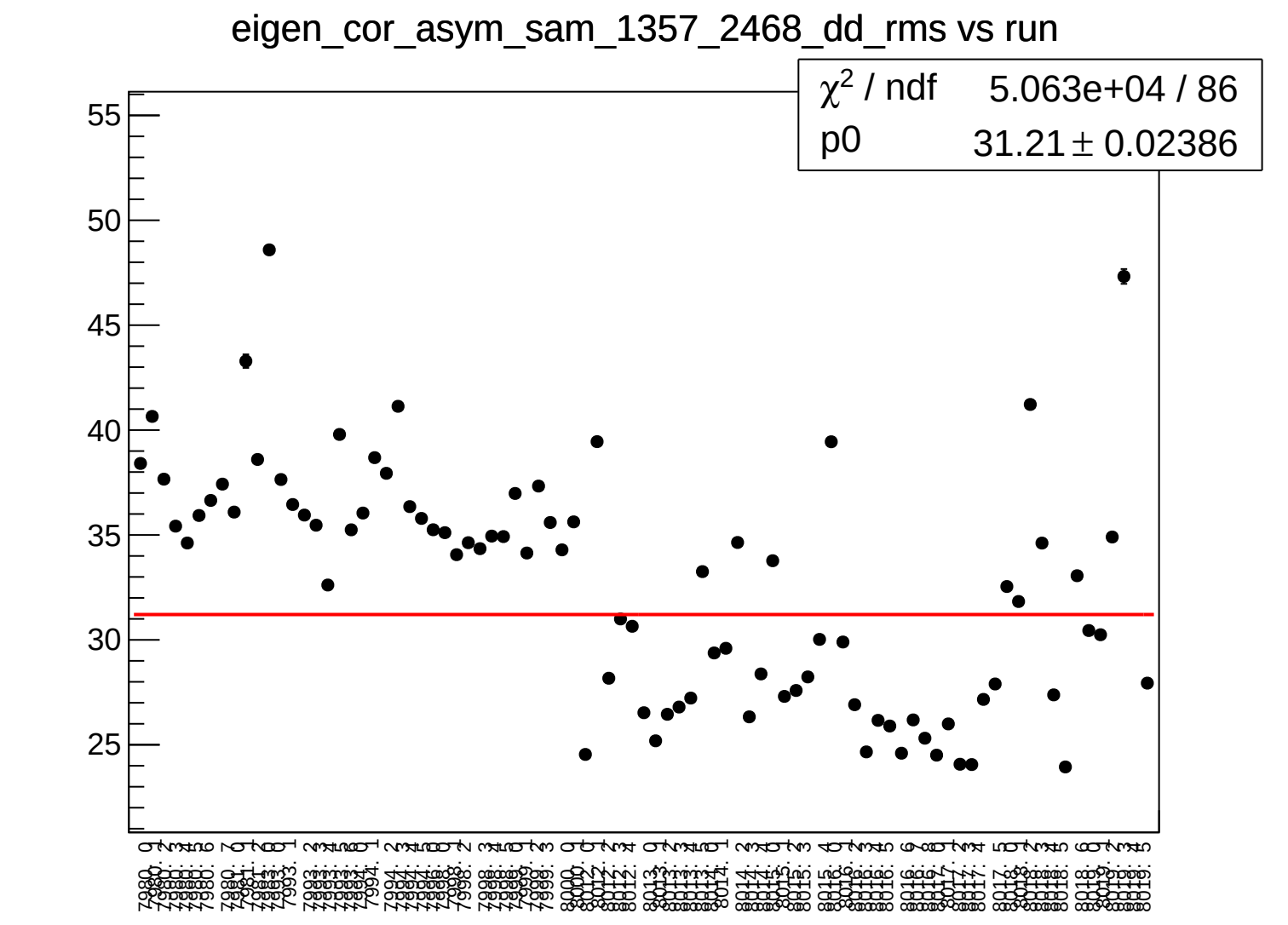

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5.063e+04 / 86
p0 31.21 ± 0.02386
55
50
45
40
35
30
25

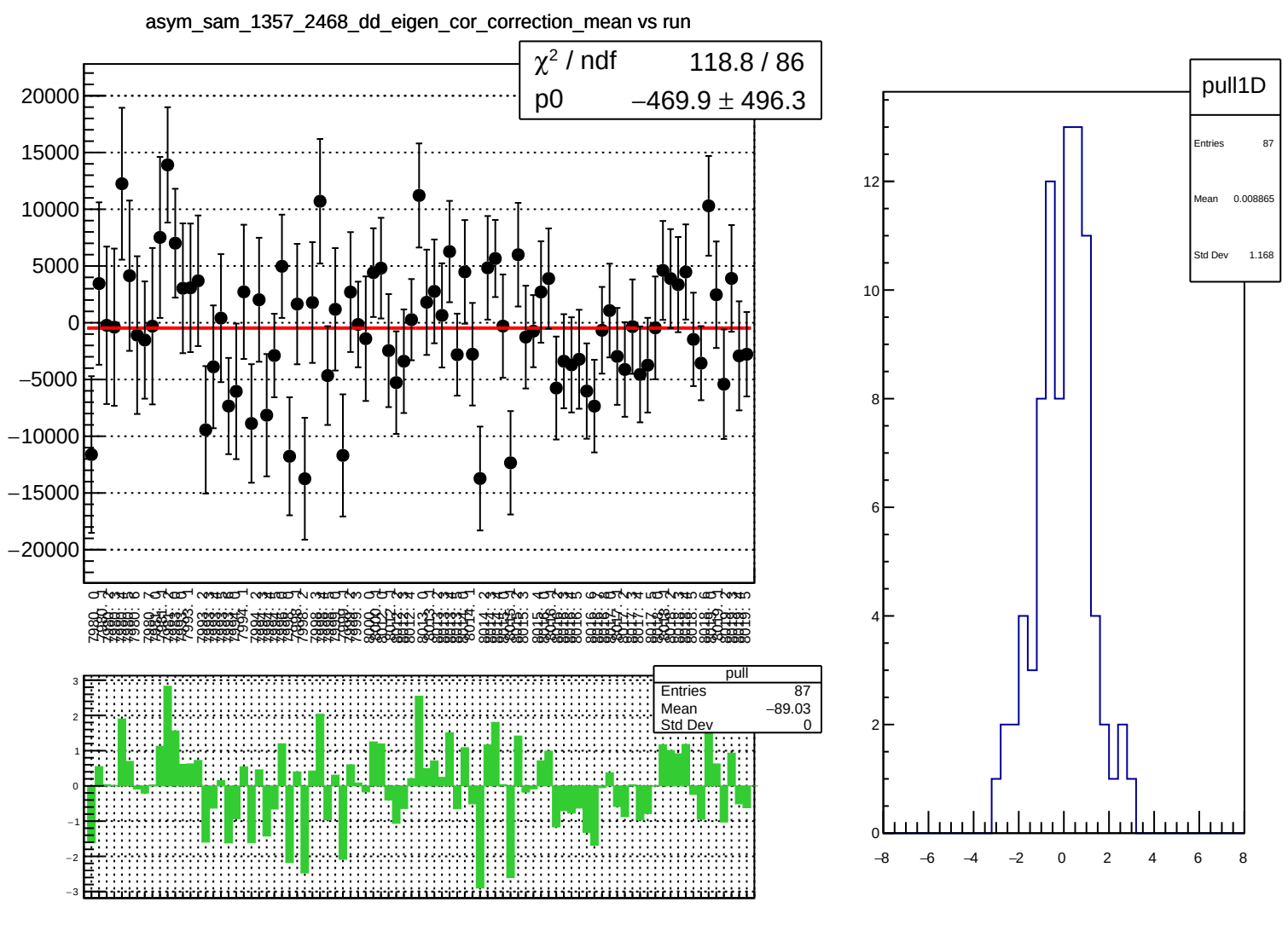

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 118.8 / 86
p0 −469.9 ± 496.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 87
Mean −89.03
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.008865
Std Dev 1.168
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

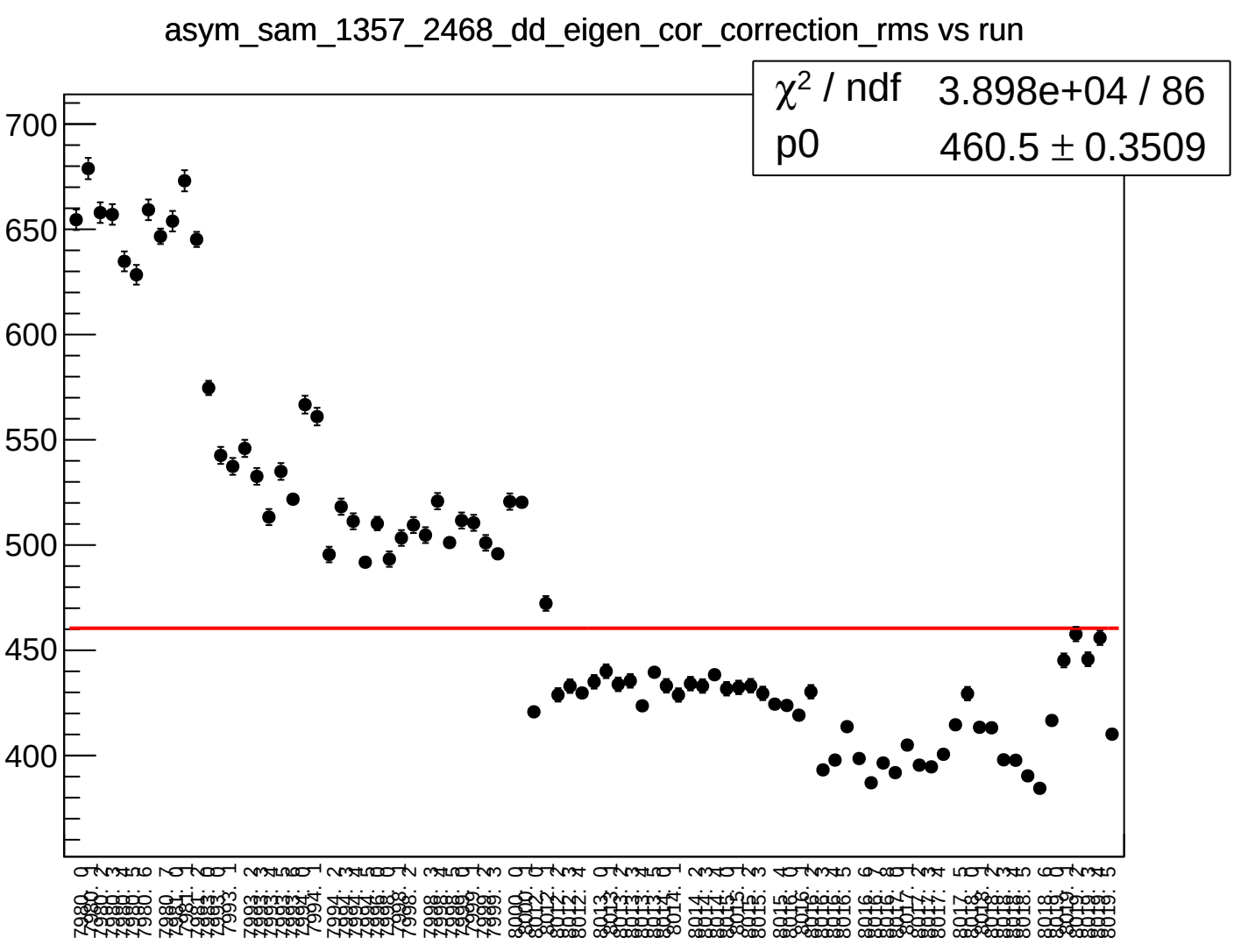

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 3.898e+04 / 86
p0 460.5 ± 0.3509
700
650
600
550
500
450
400

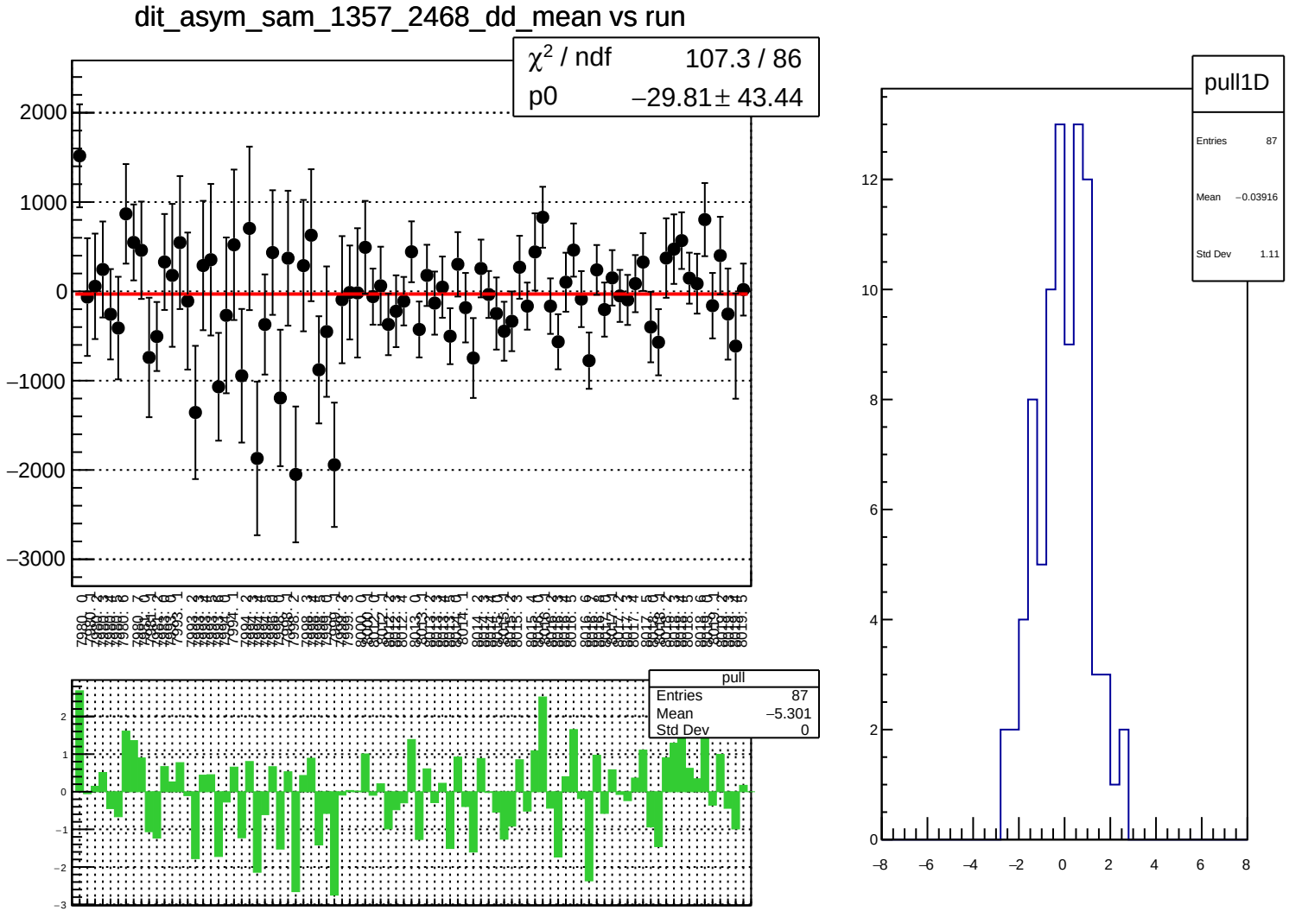

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 89.63 / 86
p0 −7.424 ± 33.75
1000
500
0
−500
−1000
pull
Entries 87
Mean 33.58
Std Dev 102.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

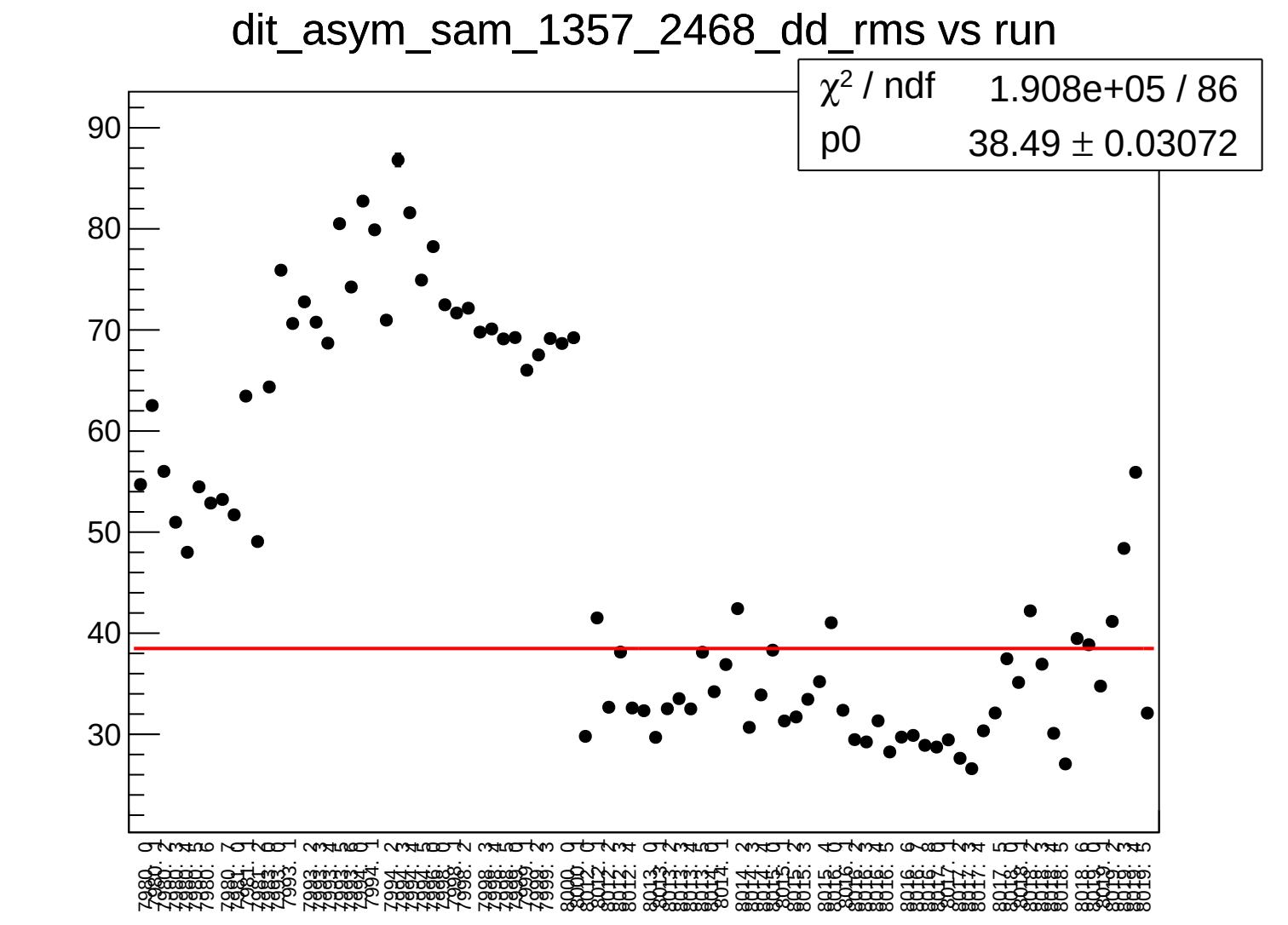

pull1D
Entries 87
Mean 0.01945
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

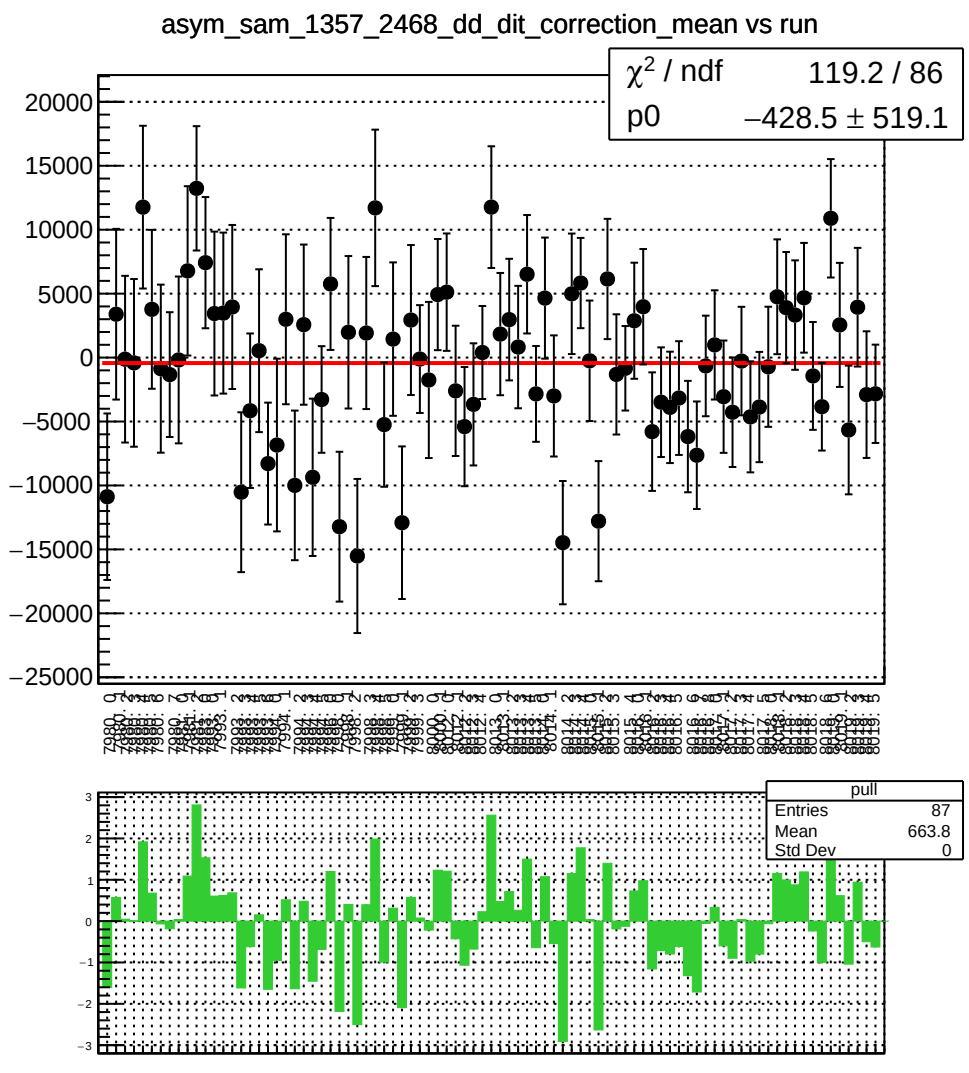

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 5.063e+04 / 86
p0 31.21 ± 0.02386
55
50
45
40
35
30
25

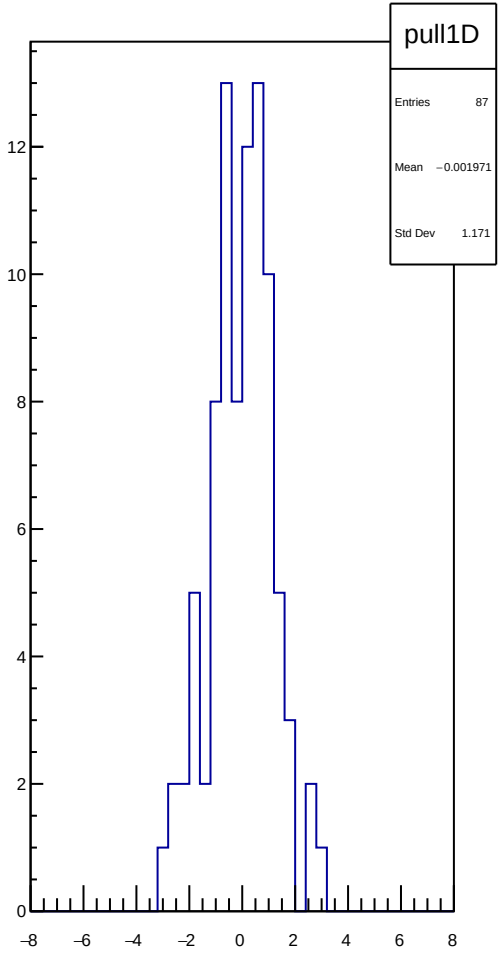

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 118.8 / 86
p0 −469.9 ± 496.3
pull
Entries 87
Mean −89.03
Std Dev 0
pull1D
Entries 87
Mean 0.008865
Std Dev 1.168

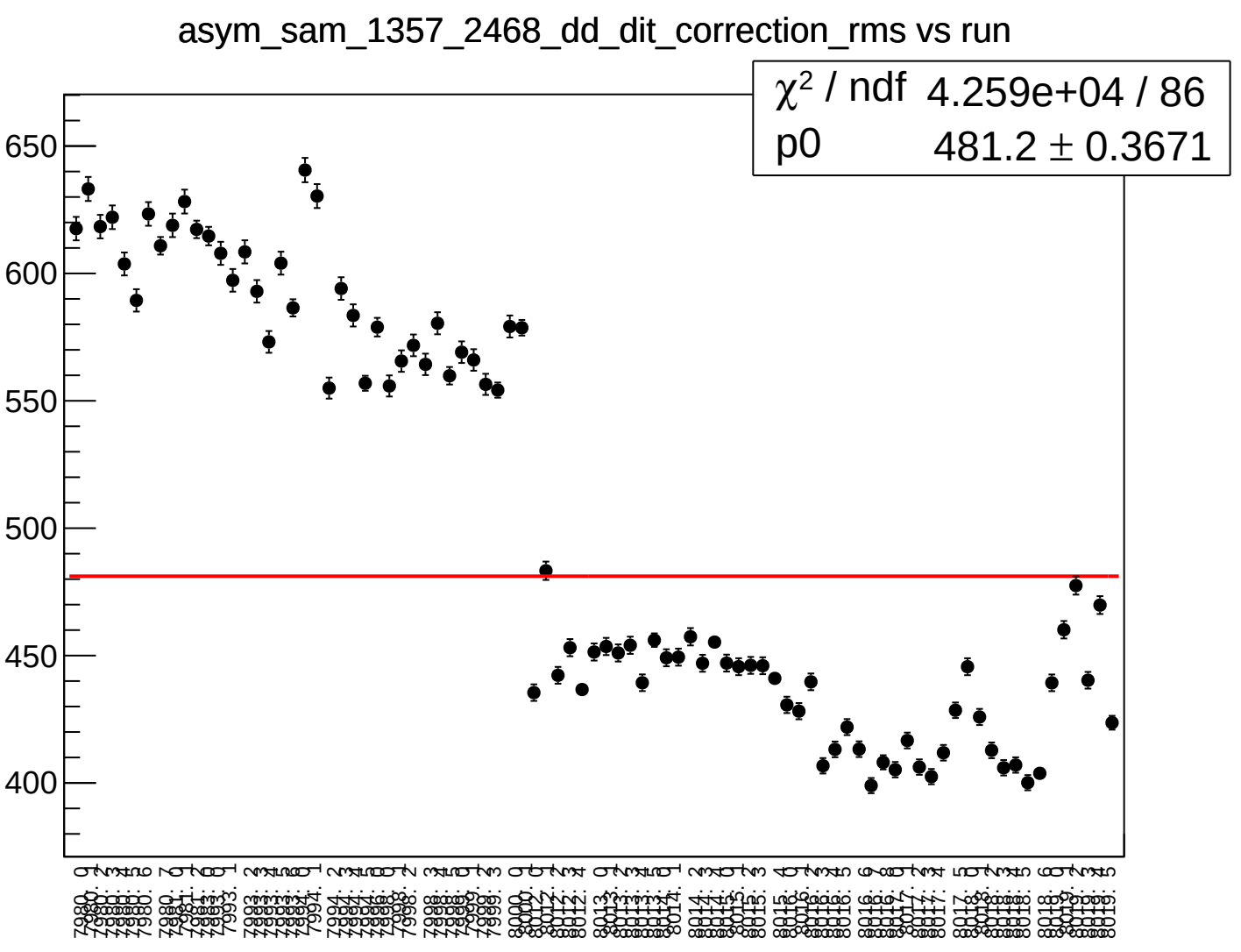

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.898e+04 / 86
p0 460.5 ± 0.3509
700
650
600
550
500
450
400

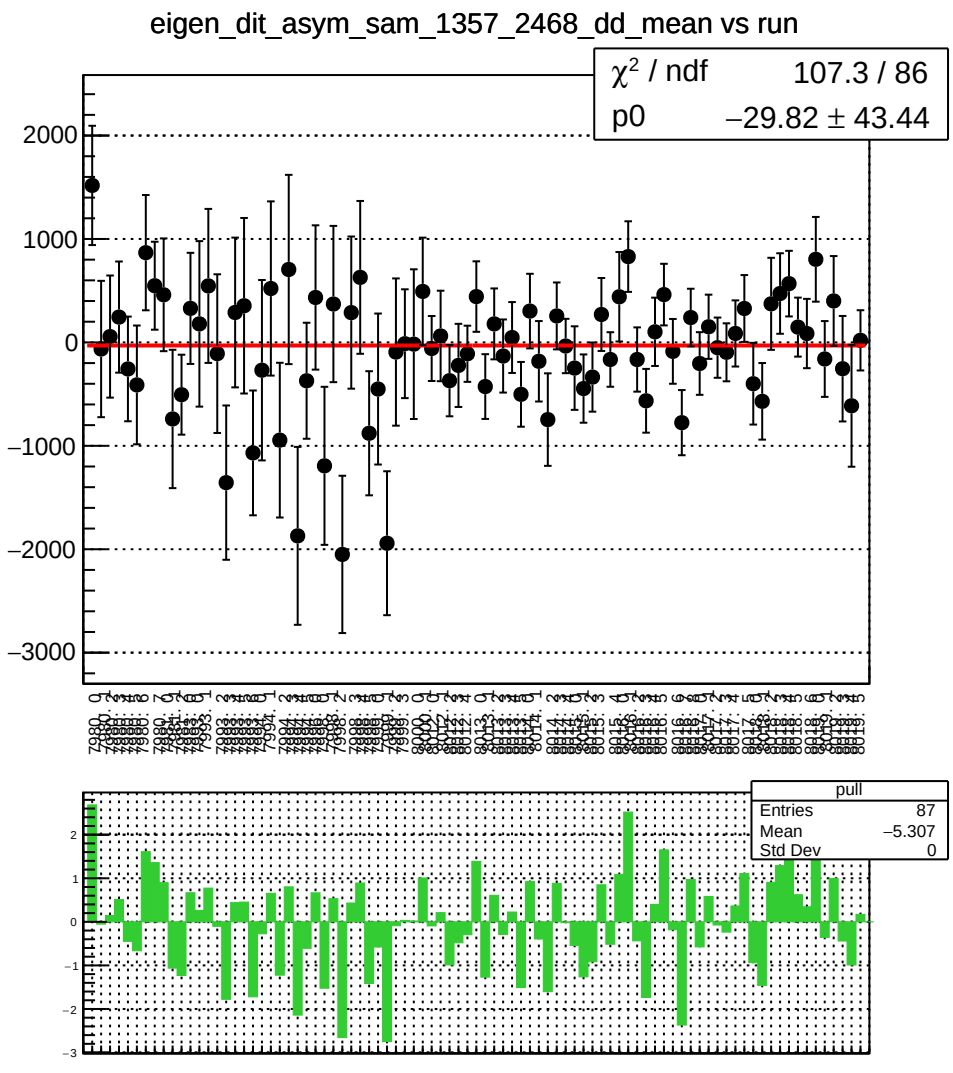

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 107.3 / 86
p0 −29.81 ± 43.44
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −5.301
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.03916
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

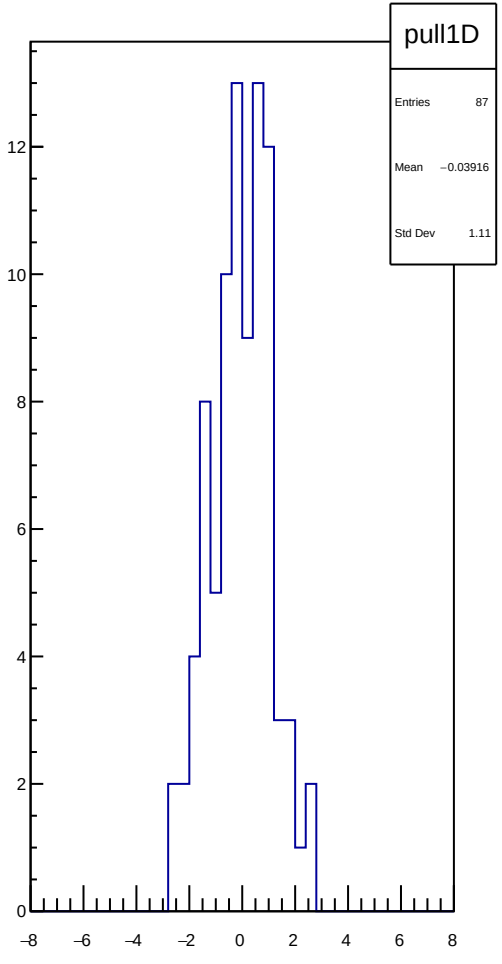

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.908e+05 / 86
p0 38.49 ± 0.03072
90
80
70
60
50
40
30

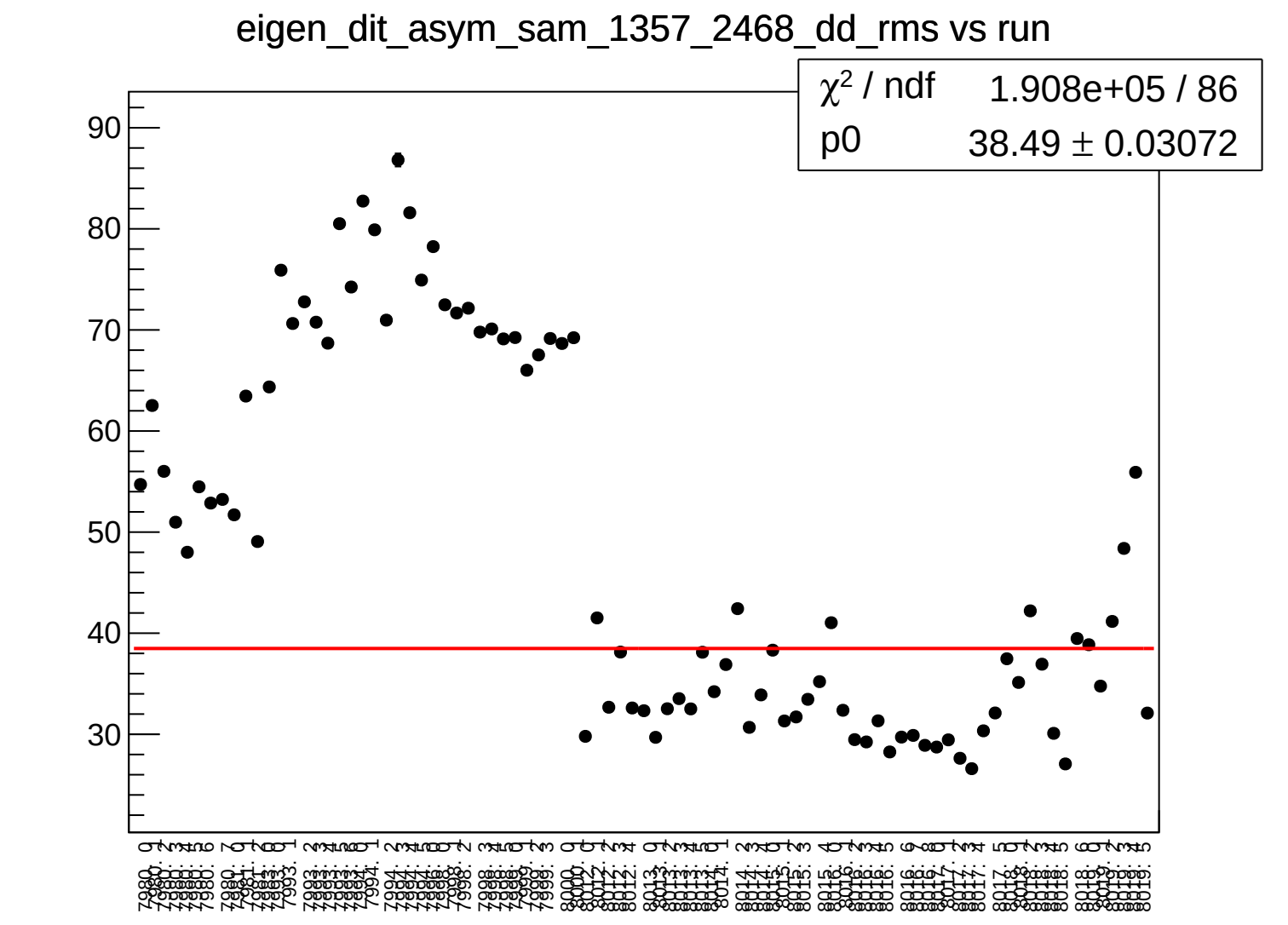

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 119.2 / 86
p0 −428.5 ± 519.1
pull
Entries 87
Mean 663.8
Std Dev 0

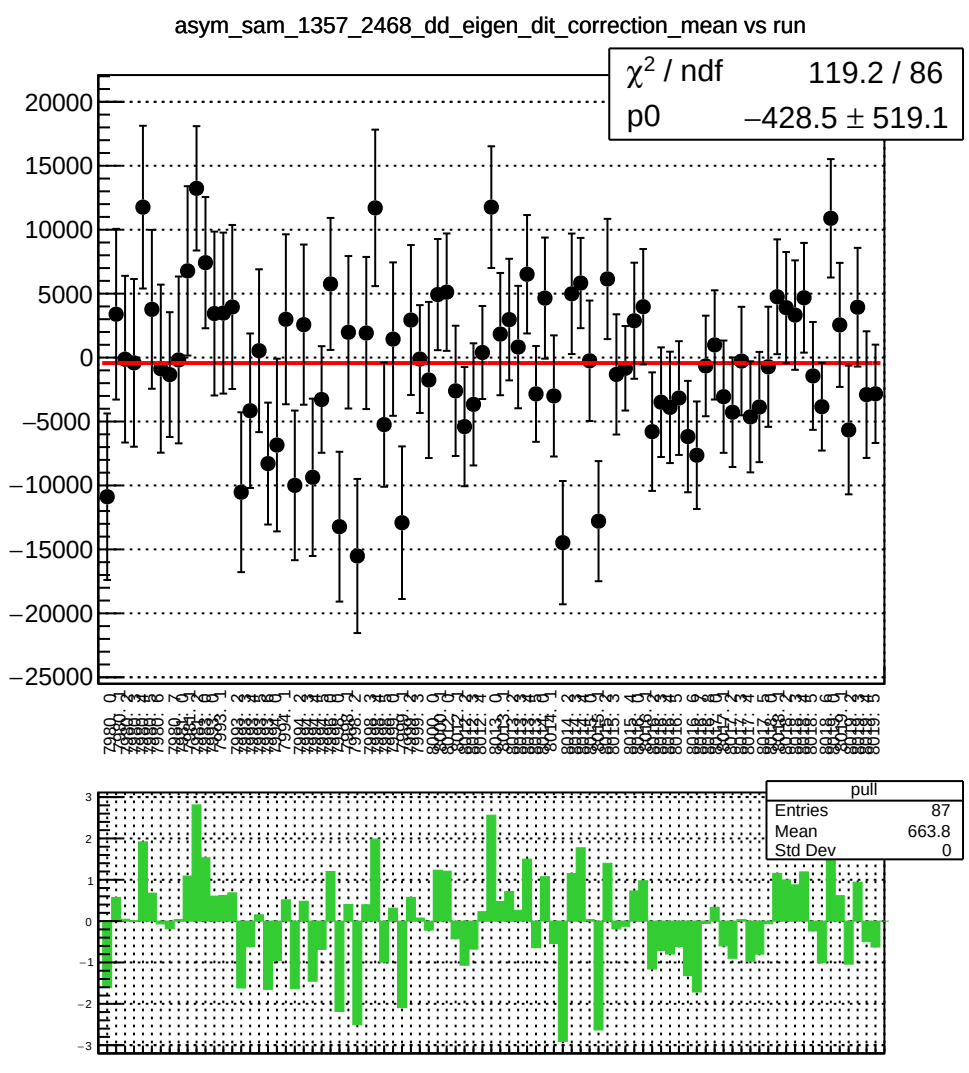

pull1D
Entries 87
Mean −0.001971
Std Dev 1.171

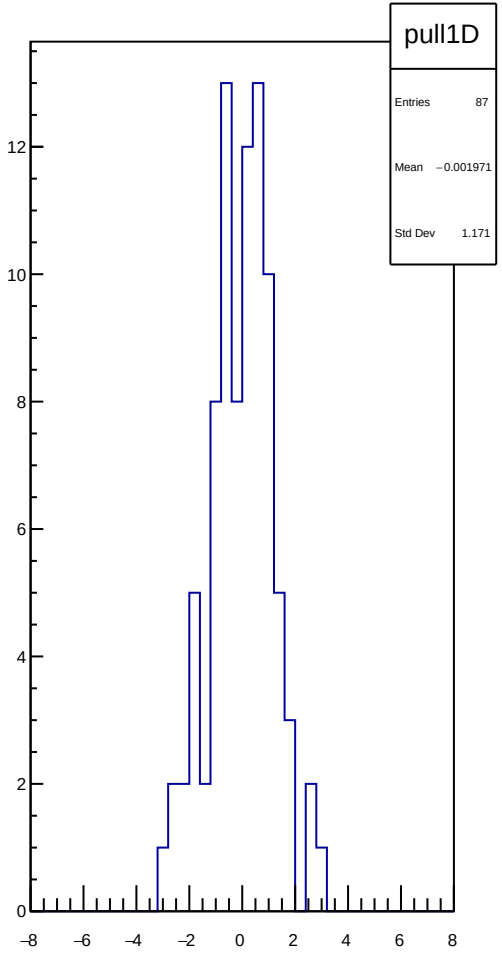

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 4.259e+04 / 86
p0 481.2 ± 0.3671
650
600
550
500
450
400

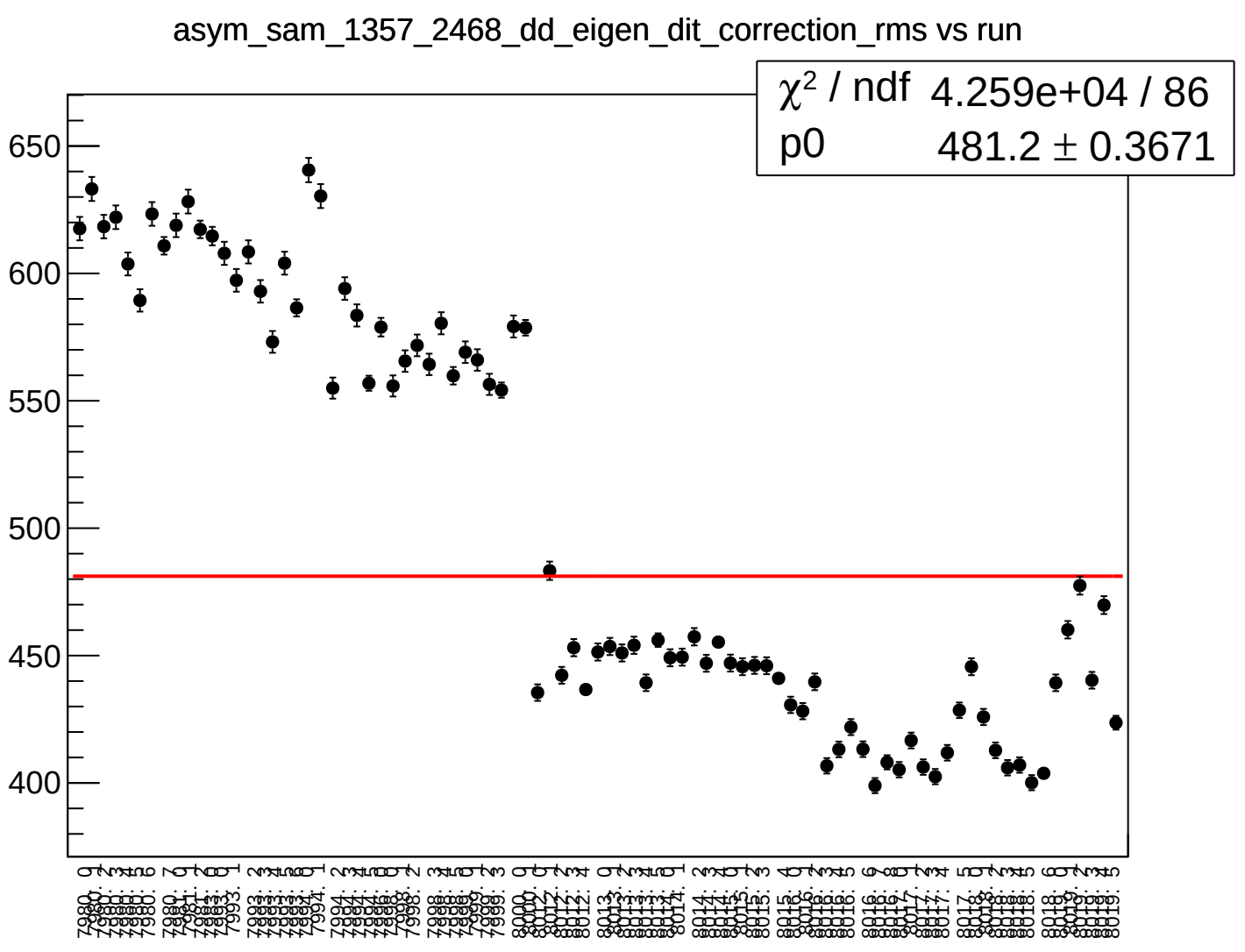

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 107.3 / 86
p0 −29.82 ± 43.44
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −5.307
Std Dev 0
2
1
0
−1
−2
−3

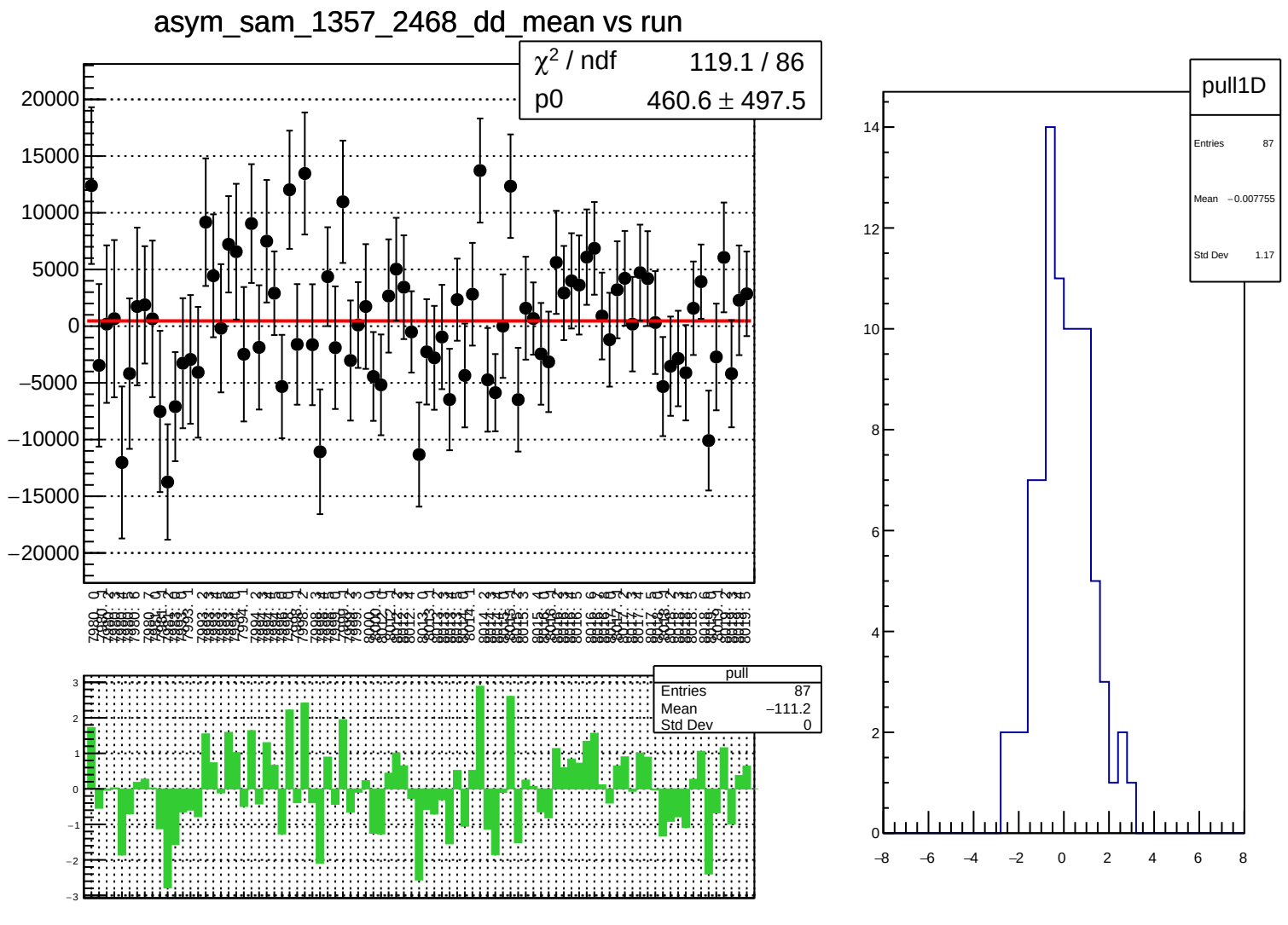

pull1D
Entries 87
Mean −0.03916
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

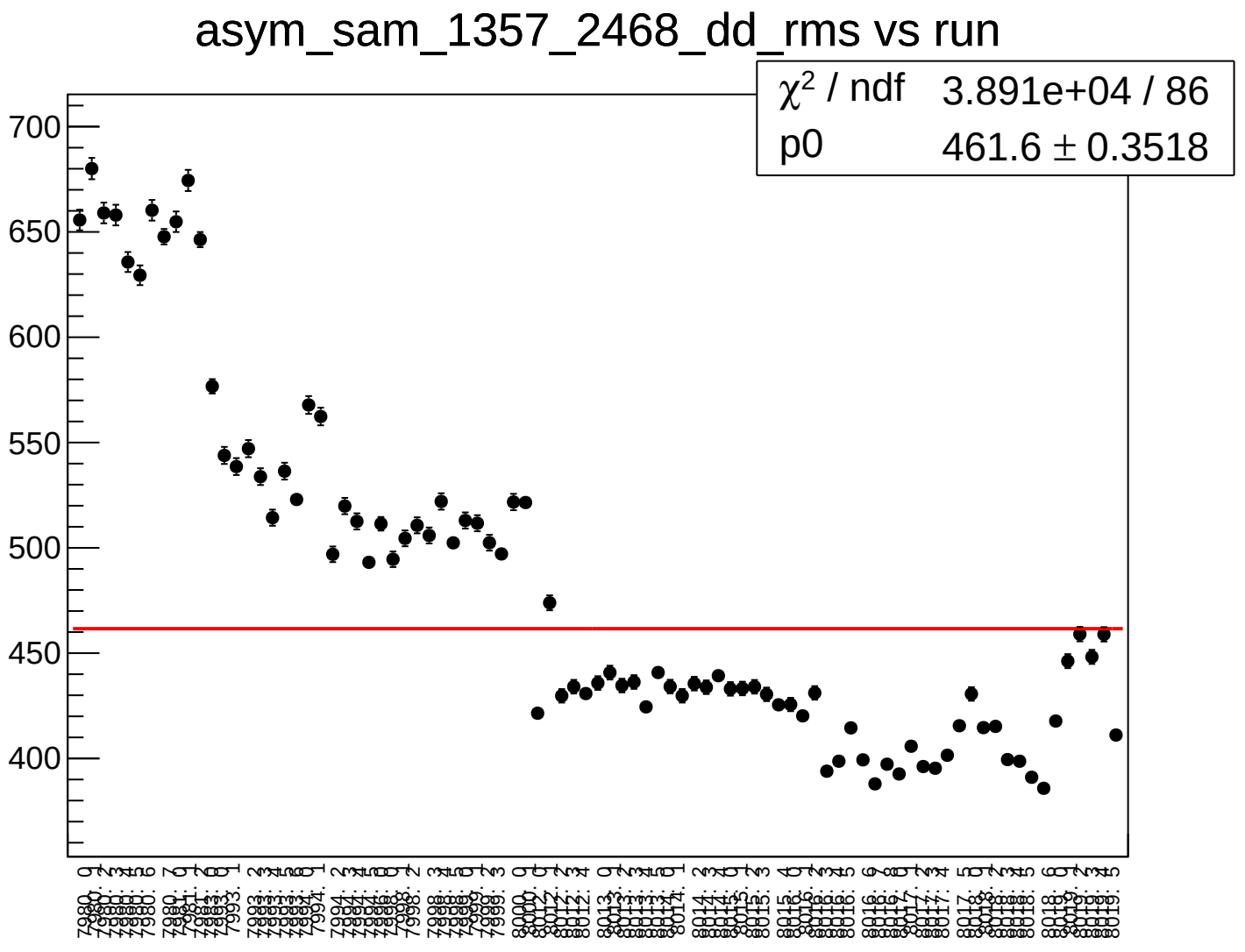

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.908e+05 / 86
p0 38.49 ± 0.03072
90
80
70
60
50
40
30

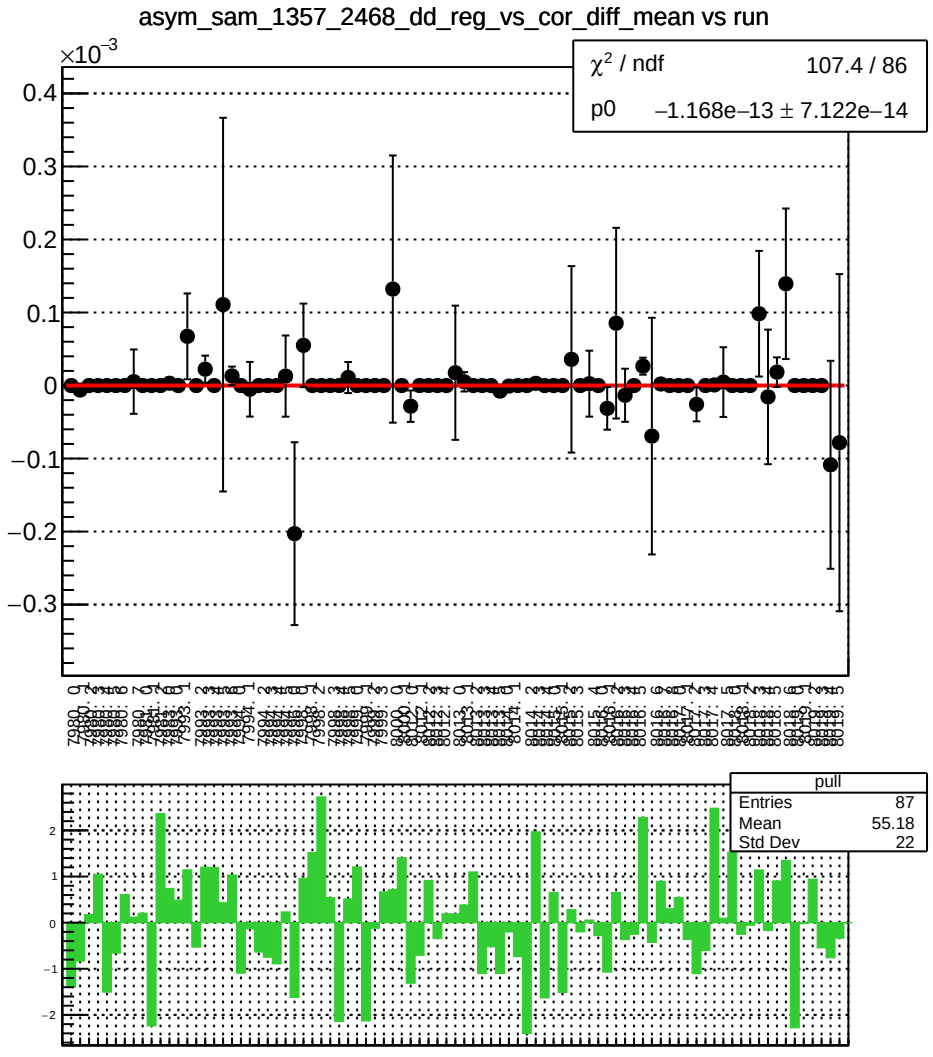

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 119.2 / 86
p0 −428.5 ± 519.1
pull
Entries 87
Mean 663.8
Std Dev 0

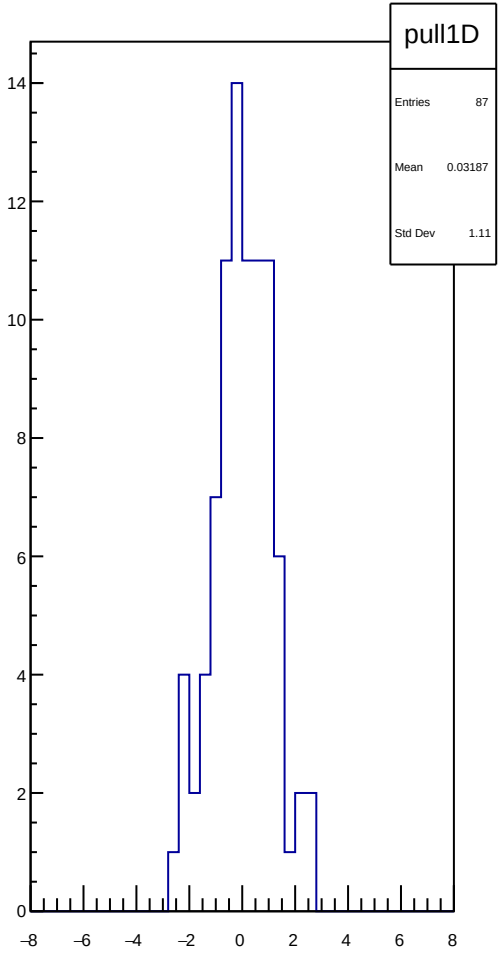

pull1D
Entries 87
Mean −0.001971
Std Dev 1.171

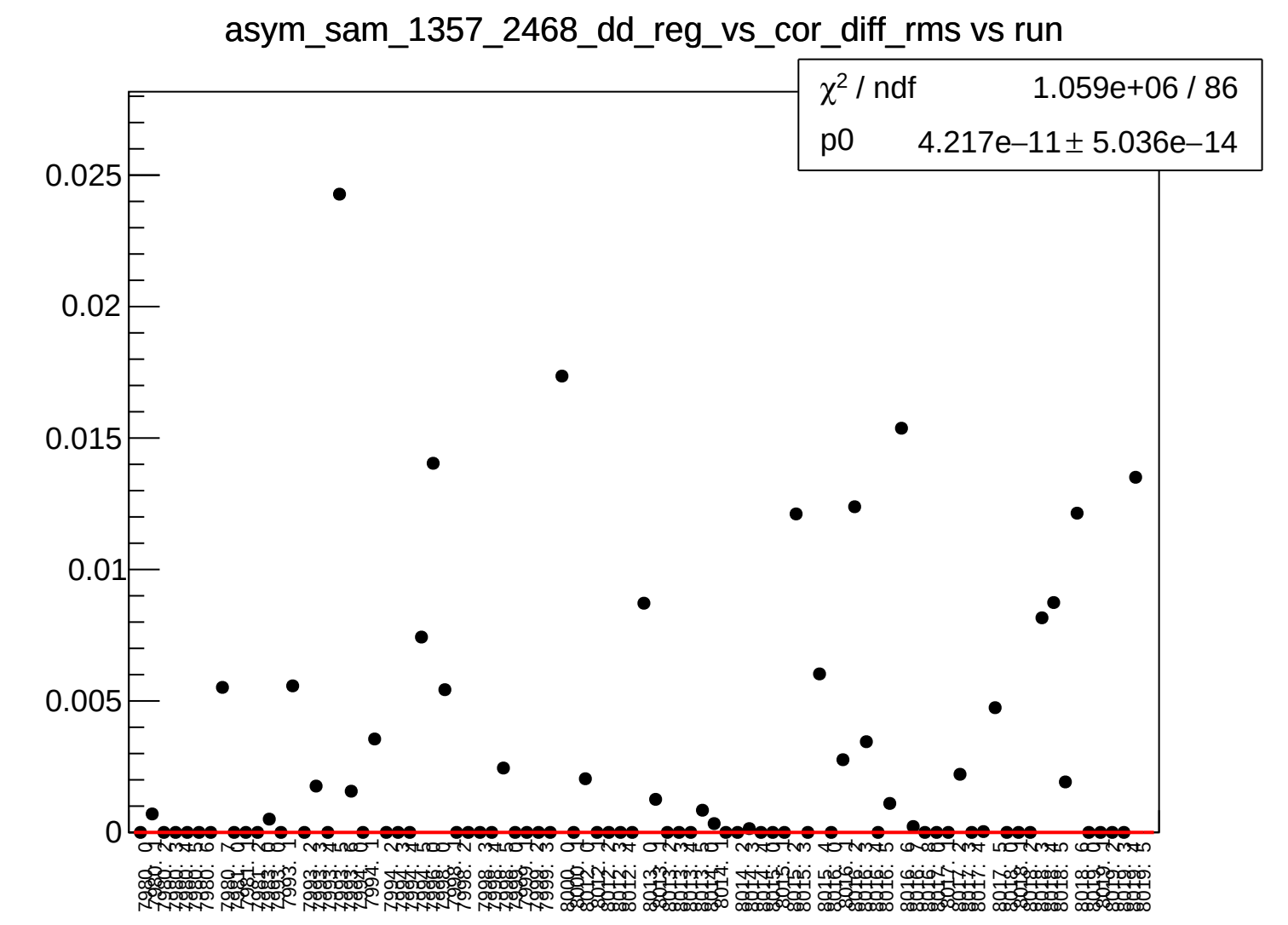

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.259e+04 / 86
p0 481.2 ± 0.3671
650
600
550
500
450
400

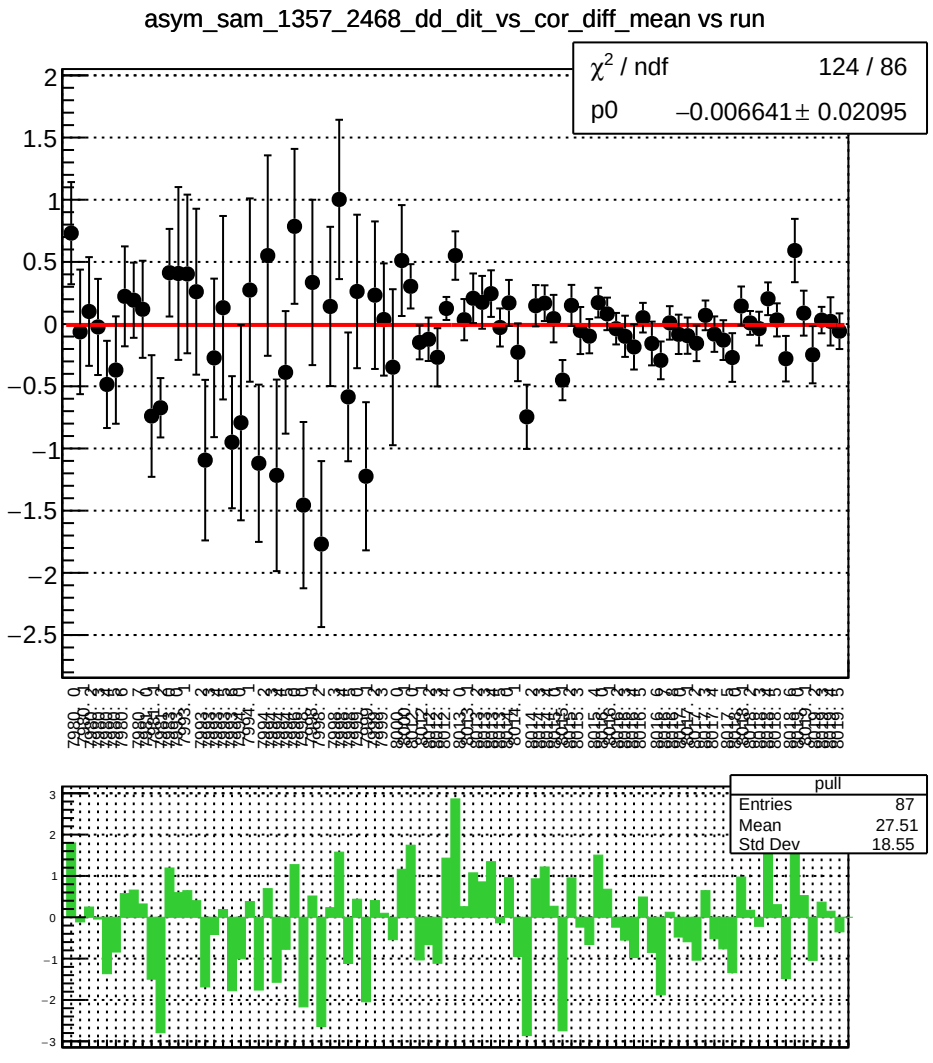

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 119.1 / 86
p0 460.6 ± 497.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 87
Mean −111.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.007755
Std Dev 1.17
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

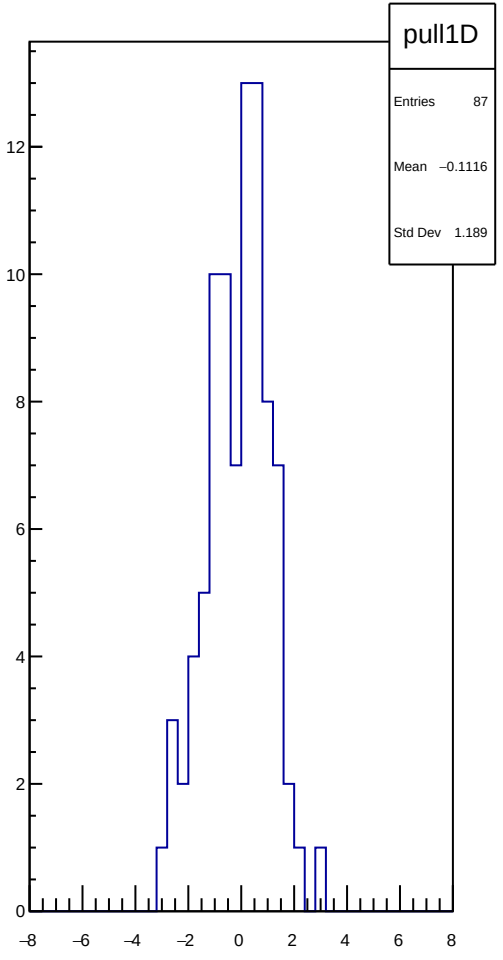

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.891e+04 / 86
p0 461.6 ± 0.3518
700
650
600
550
500
450
400

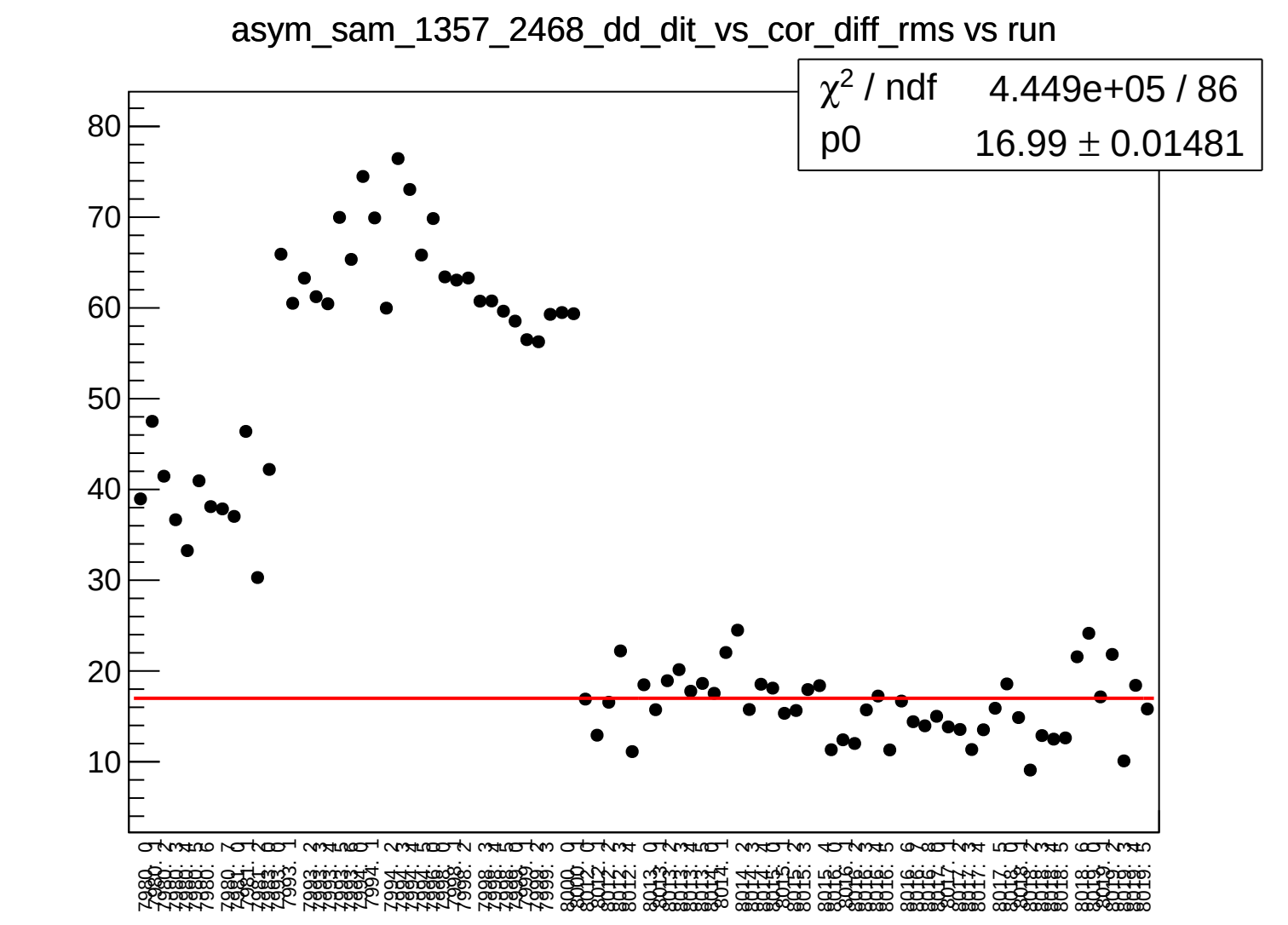

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 107.4 / 86
p0 −1.168e−13 ± 7.122e−14
pull
Entries 87
Mean 55.18
Std Dev 22

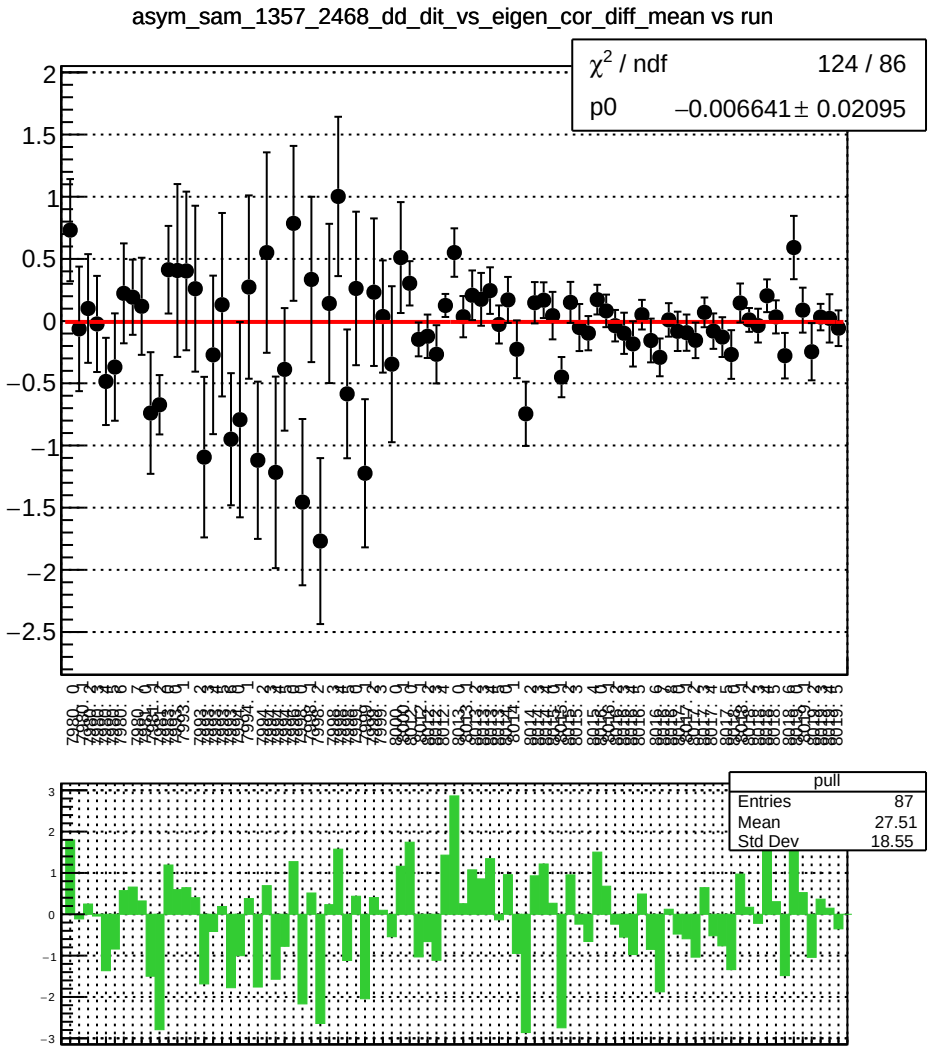

pull1D
Entries 87
Mean 0.03187
Std Dev 1.11

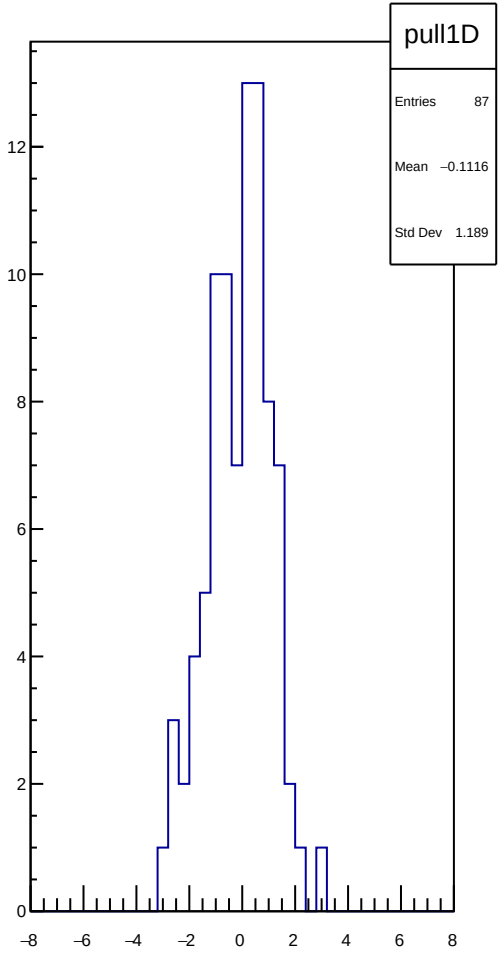

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.059e+06 / 86
p0 4.217e−11 ± 5.036e−14
0.025
0.02
0.015
0.01
0.005
0

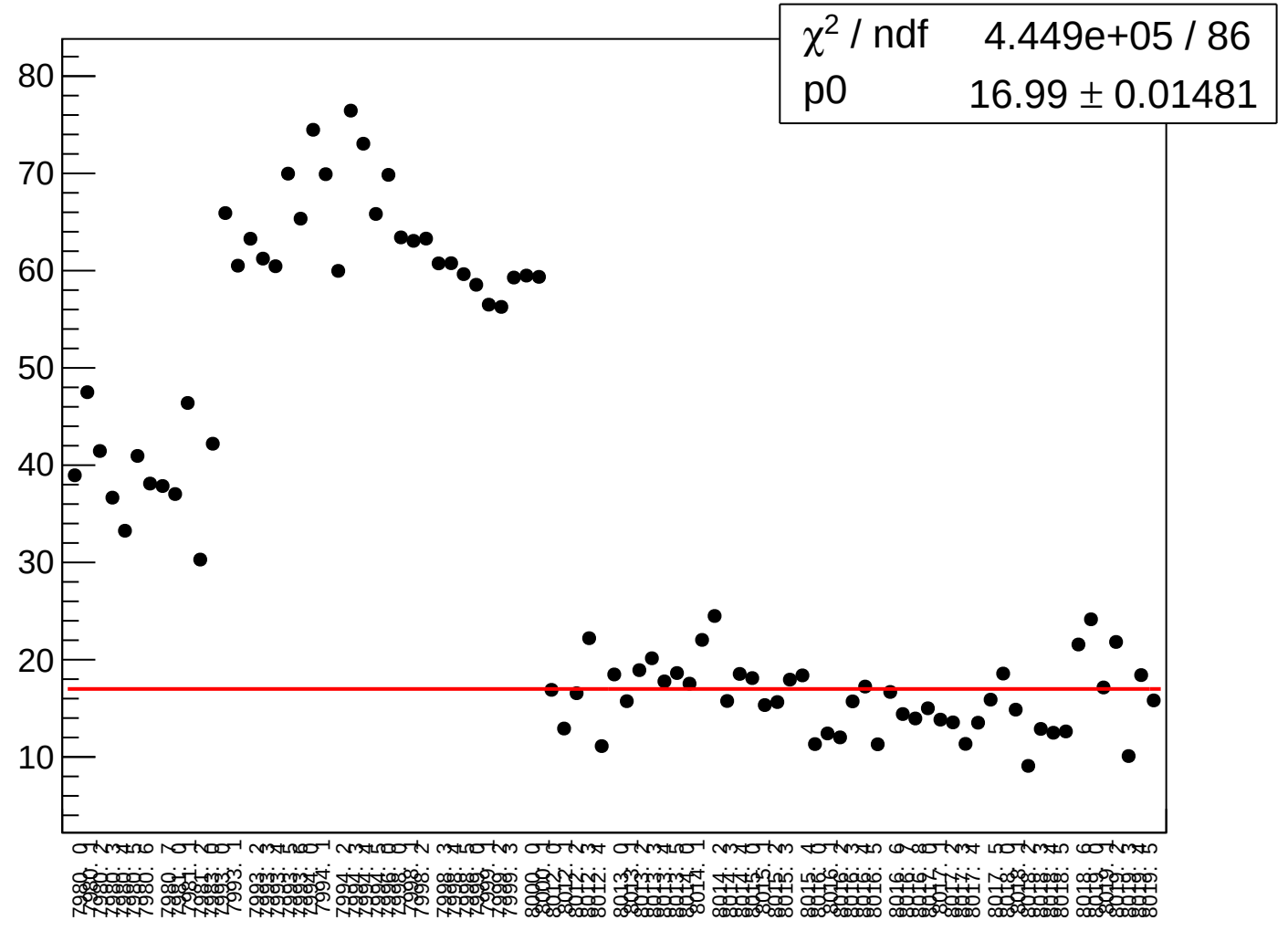

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 124 / 86
p0 −0.006641 ± 0.02095
pull
Entries 87
Mean 27.51
Std Dev 18.55

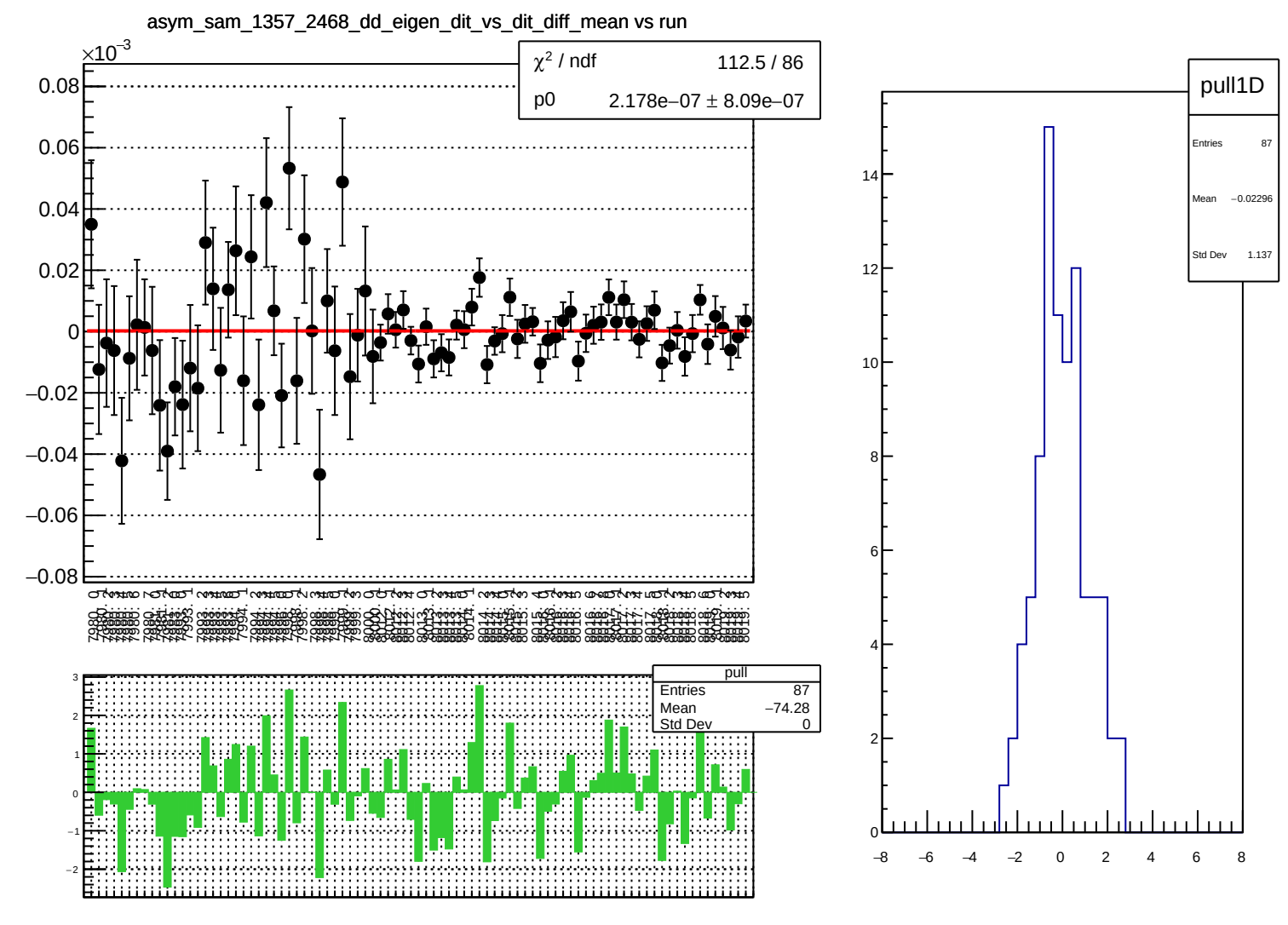

pull1D
Entries 87
Mean −0.1116
Std Dev 1.189

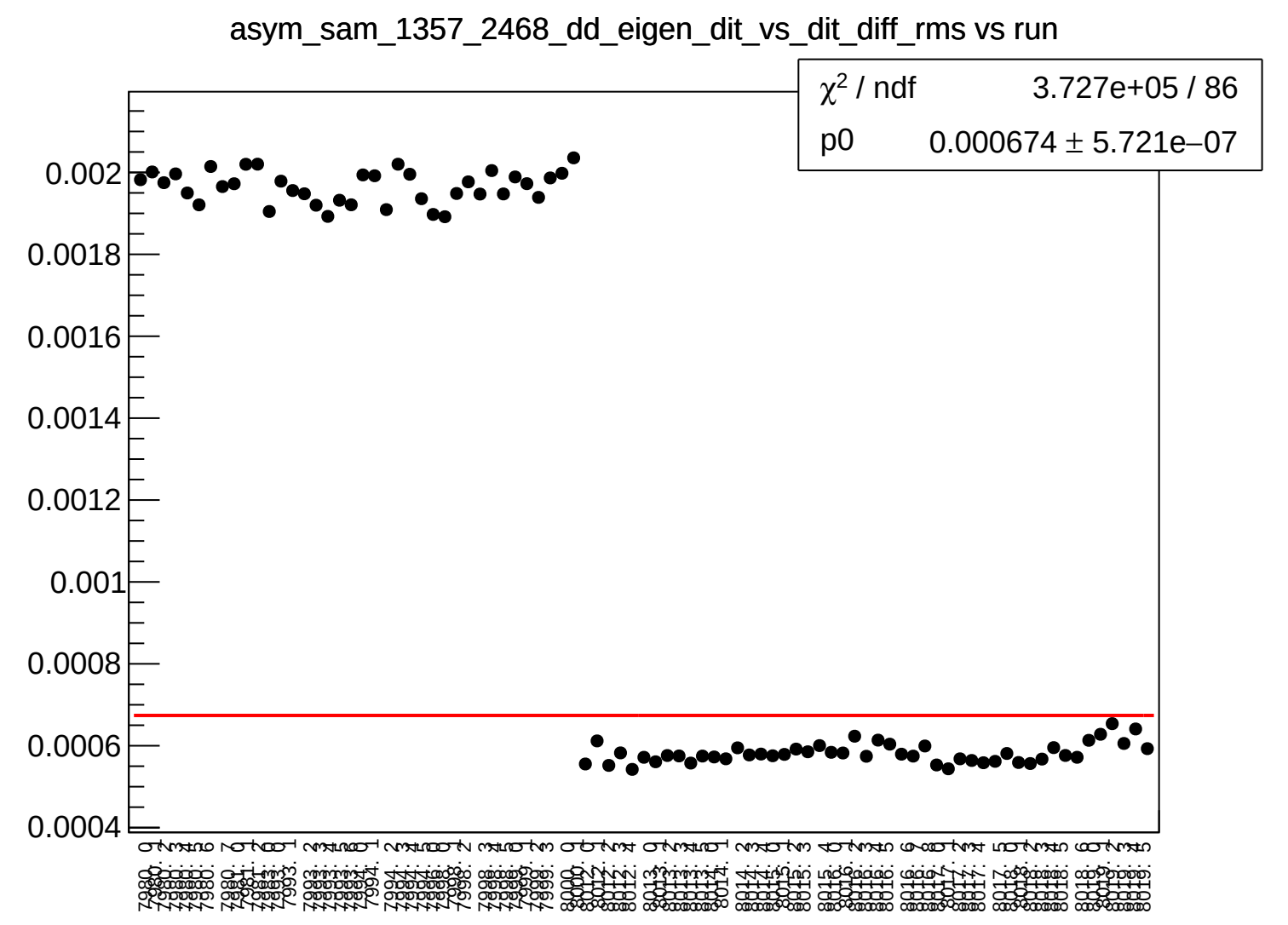

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.449e+05 / 86
p0 16.99 ± 0.01481
80
70
60
50
40
30
20
10

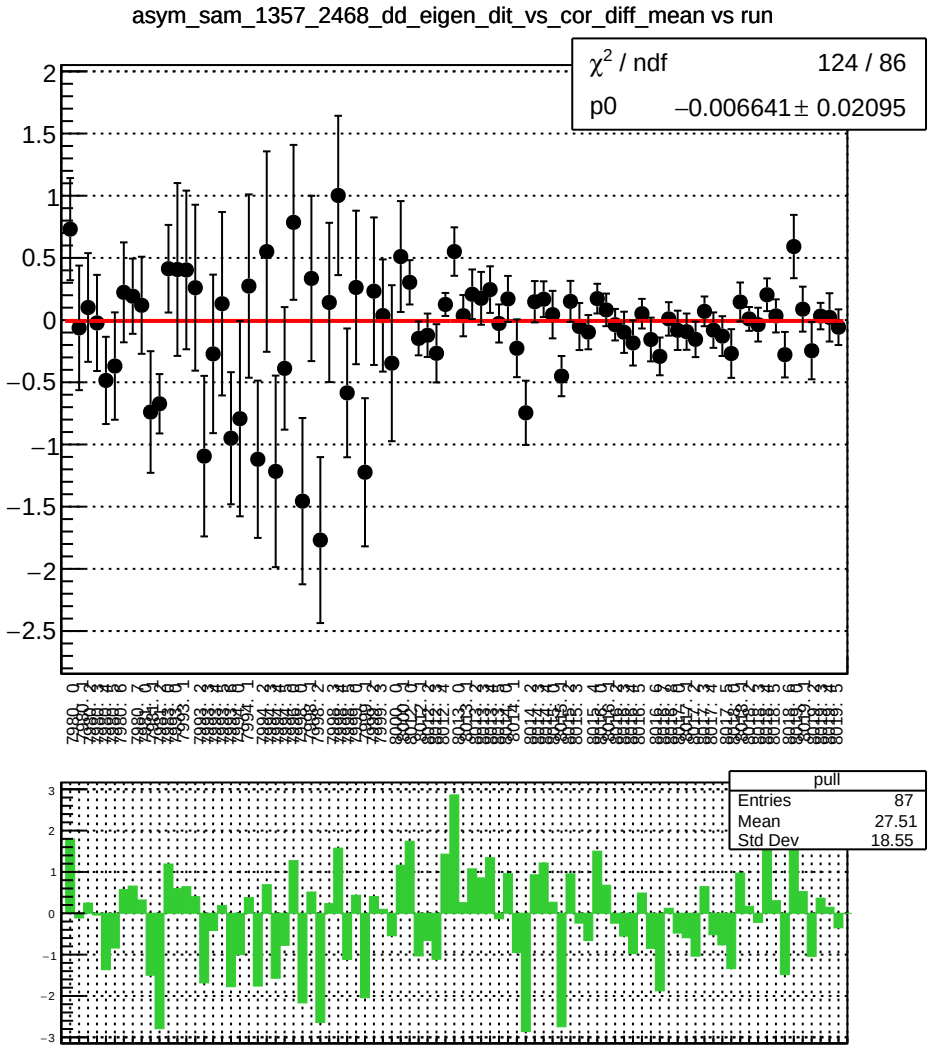

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124 / 86
p0 −0.006641 ± 0.02095
pull
Entries 87
Mean 27.51
Std Dev 18.55

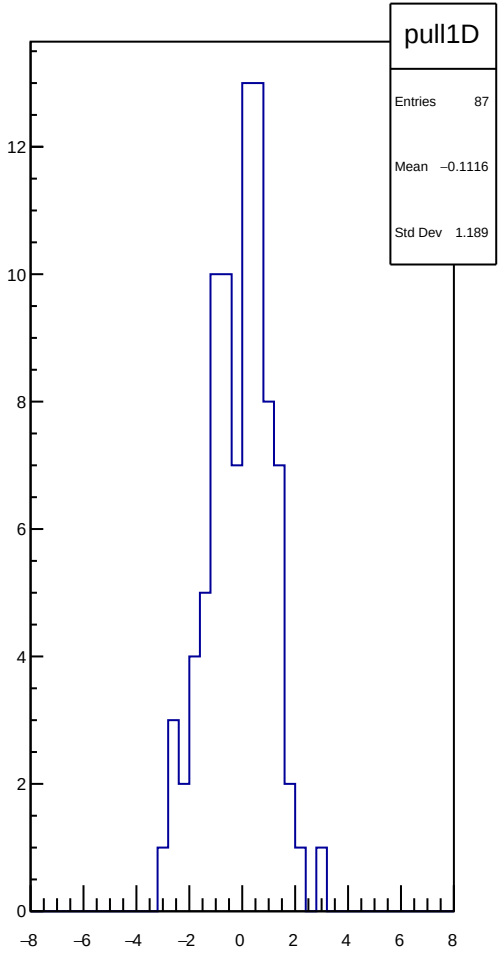

pull1D
Entries 87
Mean −0.1116
Std Dev 1.189

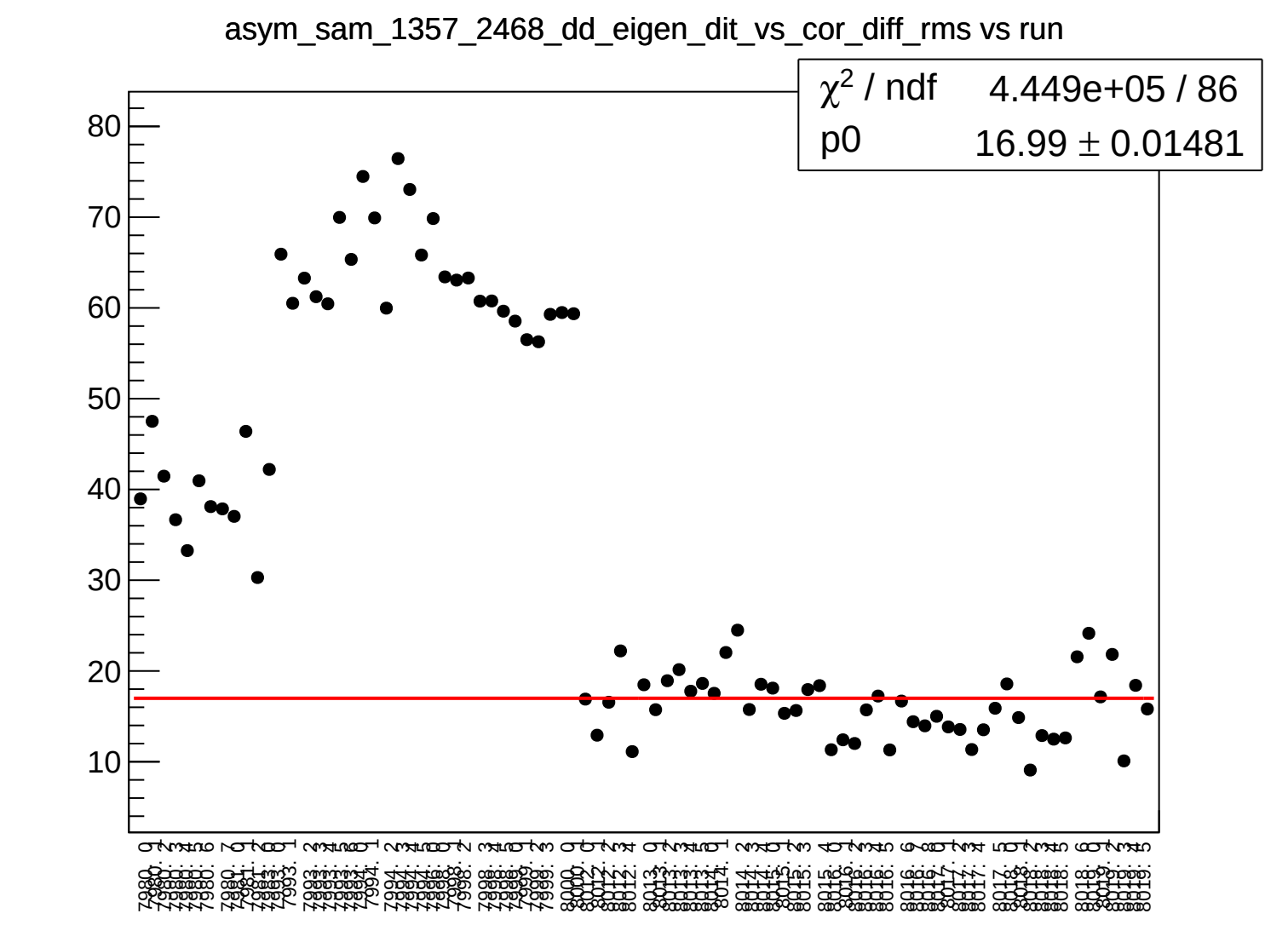

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.449e+05 / 86
p0 16.99 ± 0.01481
80
70
60
50
40
30
20
10

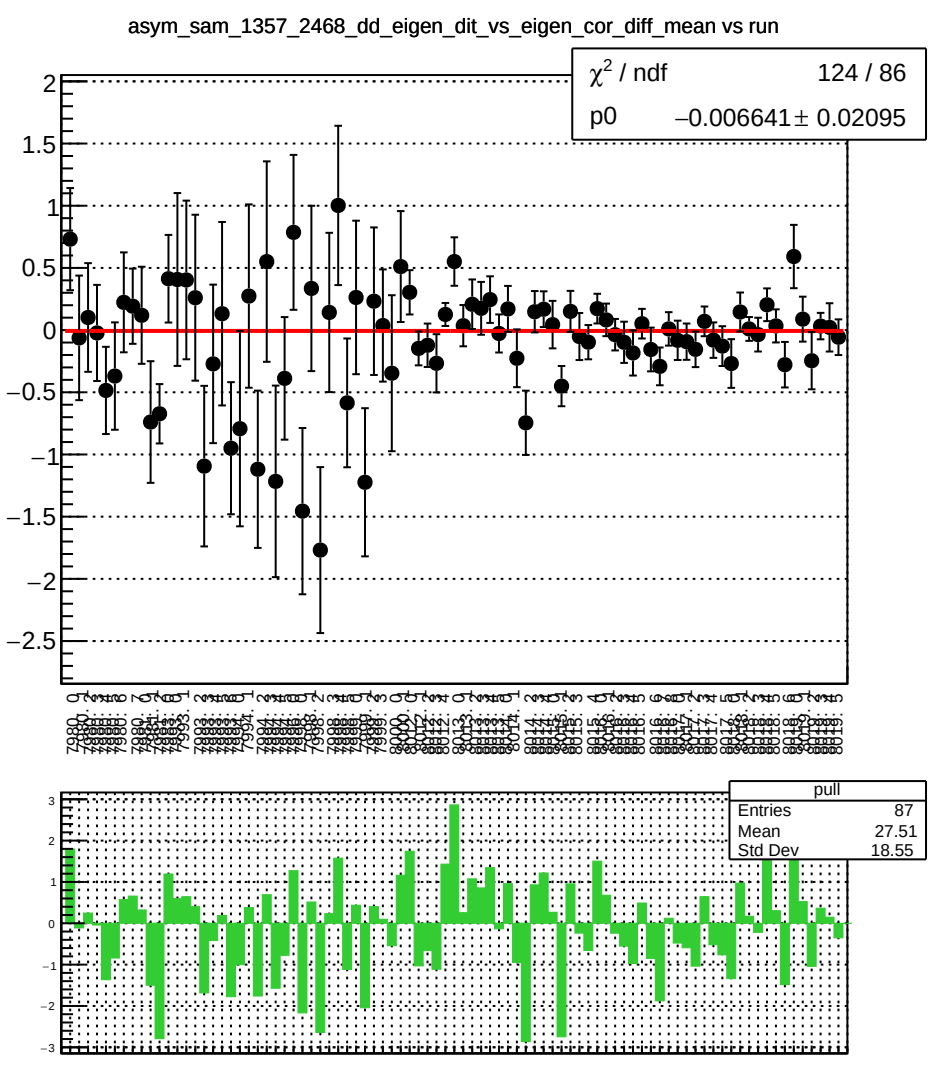

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 112.5 / 86
p0 2.178e−07 ± 8.09e−07
pull
Entries 87
Mean −74.28
Std Dev 0
pull1D
Entries 87
Mean −0.02296
Std Dev 1.137

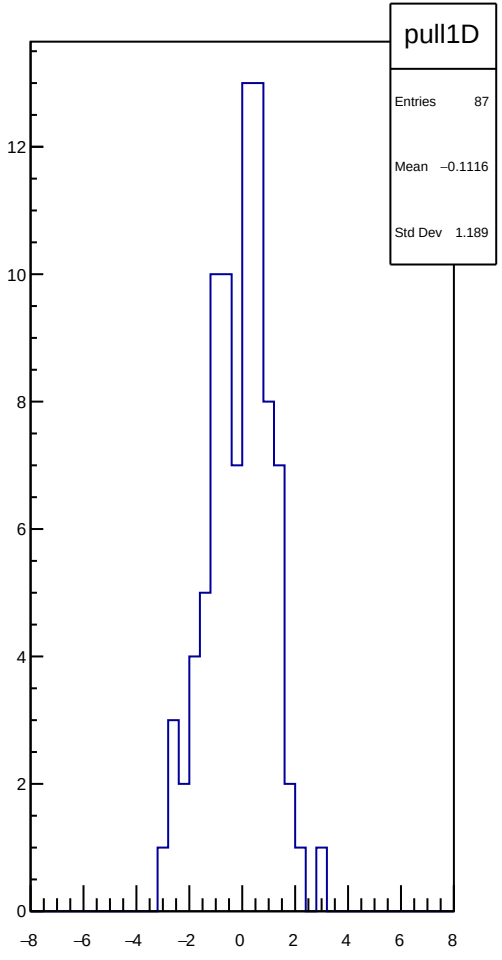

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.727e+05 / 86
p0 0.000674 ± 5.721e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

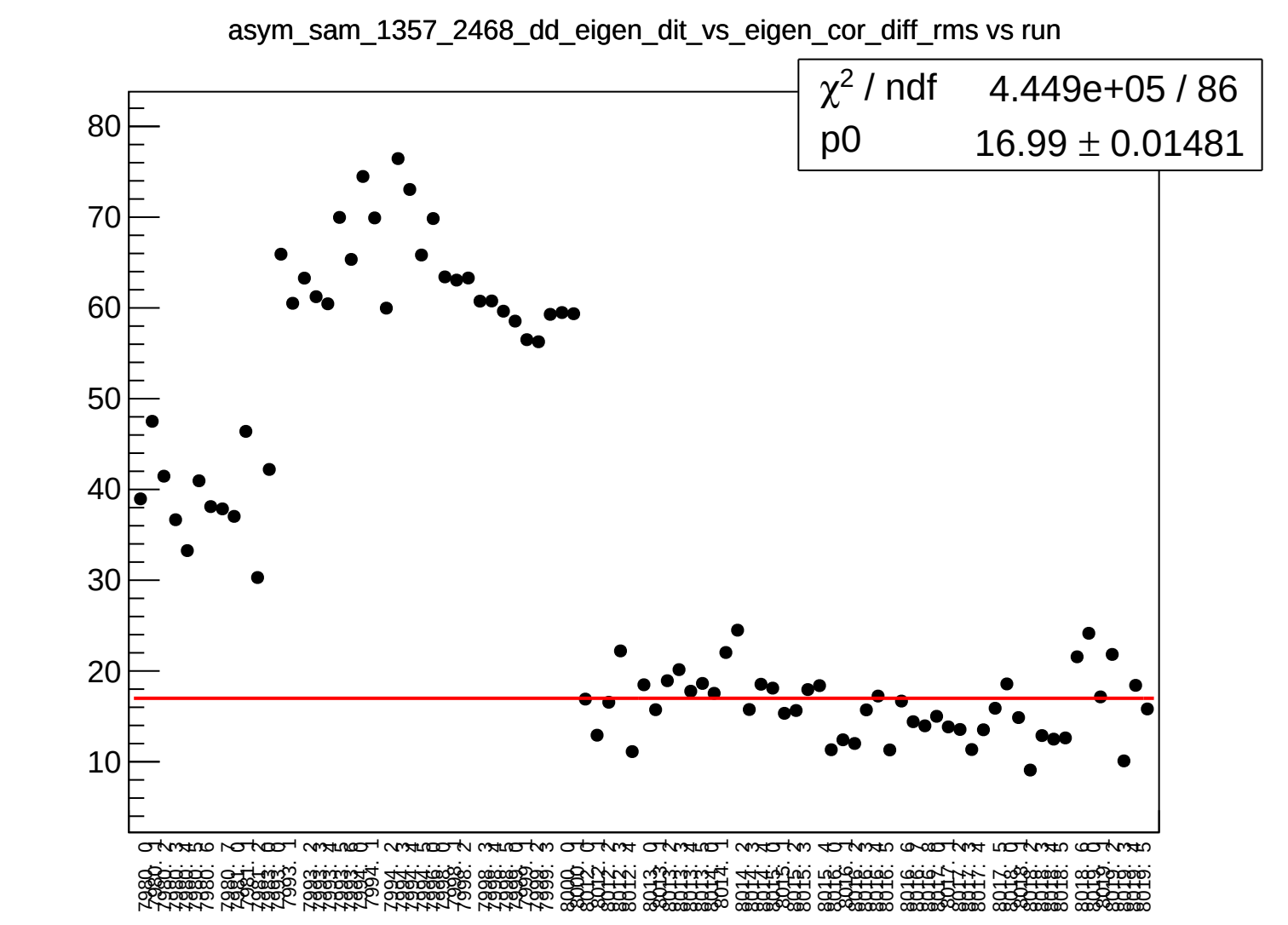

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 124 / 86
p0 −0.006641 ± 0.02095
pull
Entries 87
Mean 27.51
Std Dev 18.55

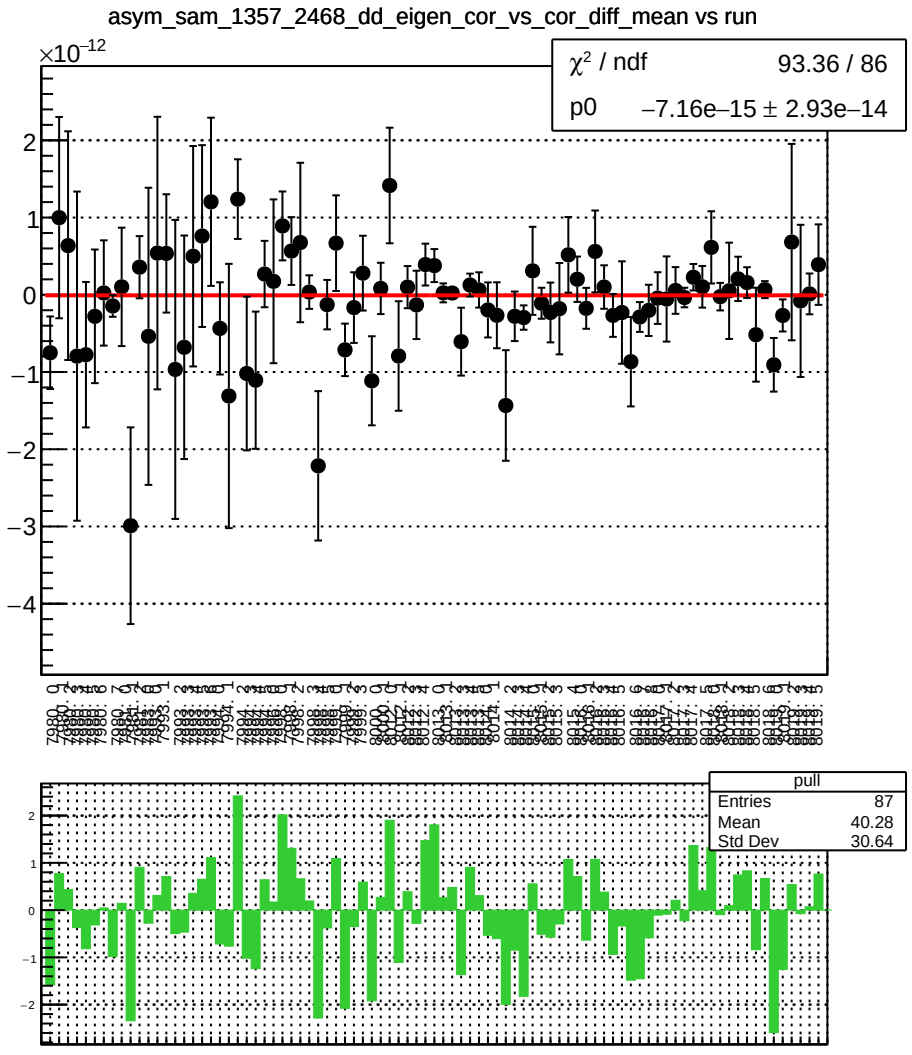

pull1D
Entries 87
Mean −0.1116
Std Dev 1.189

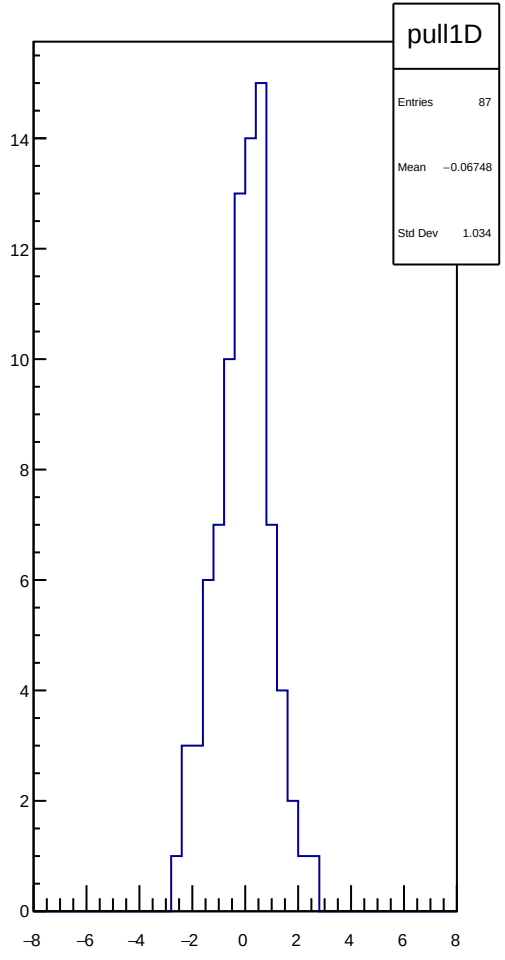

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.449e+05 / 86
p0 16.99 ± 0.01481
80
70
60
50
40
30
20
10

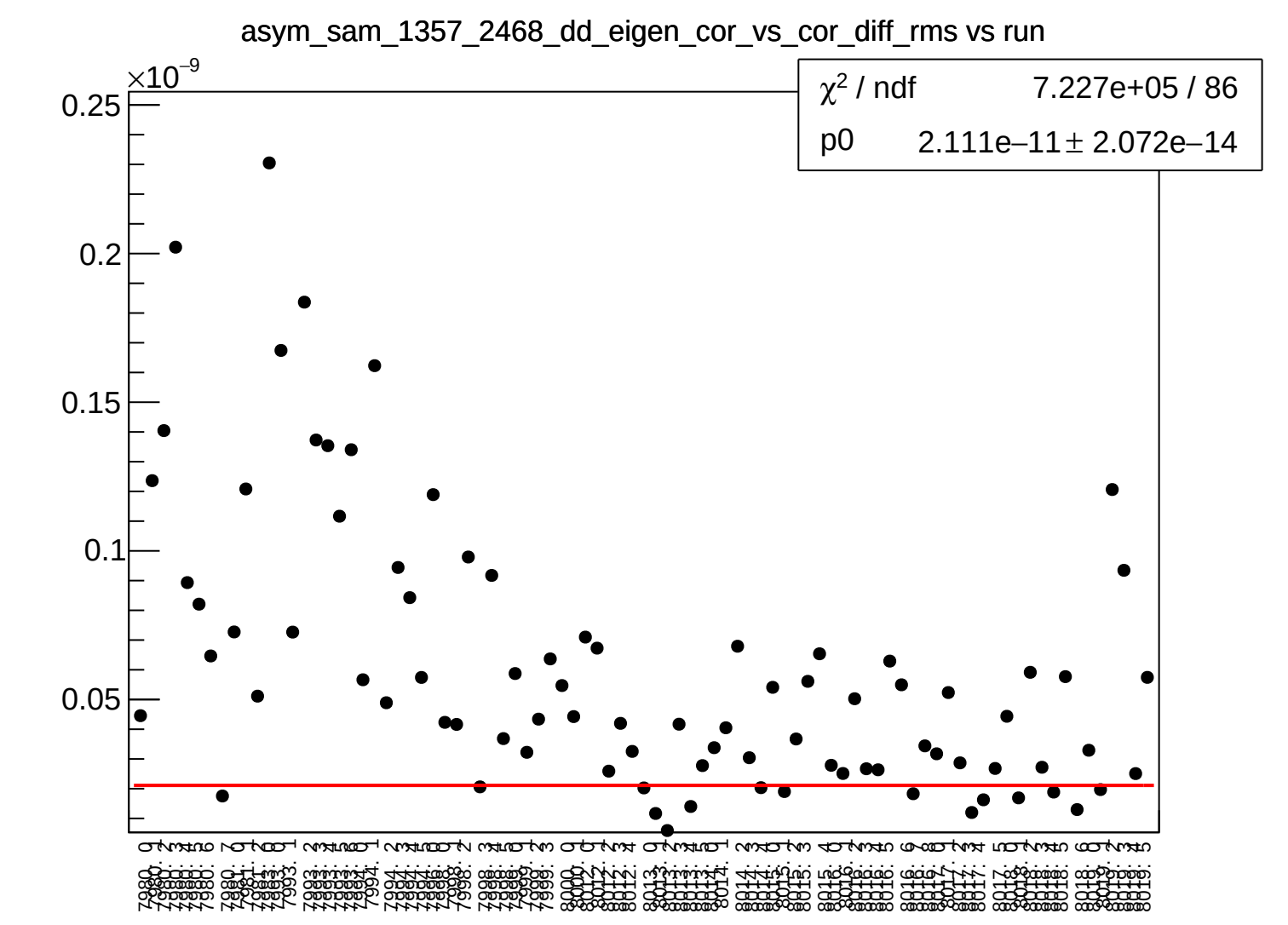

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124 / 86
p0 −0.006641 ± 0.02095
pull
Entries 87
Mean 27.51
Std Dev 18.55

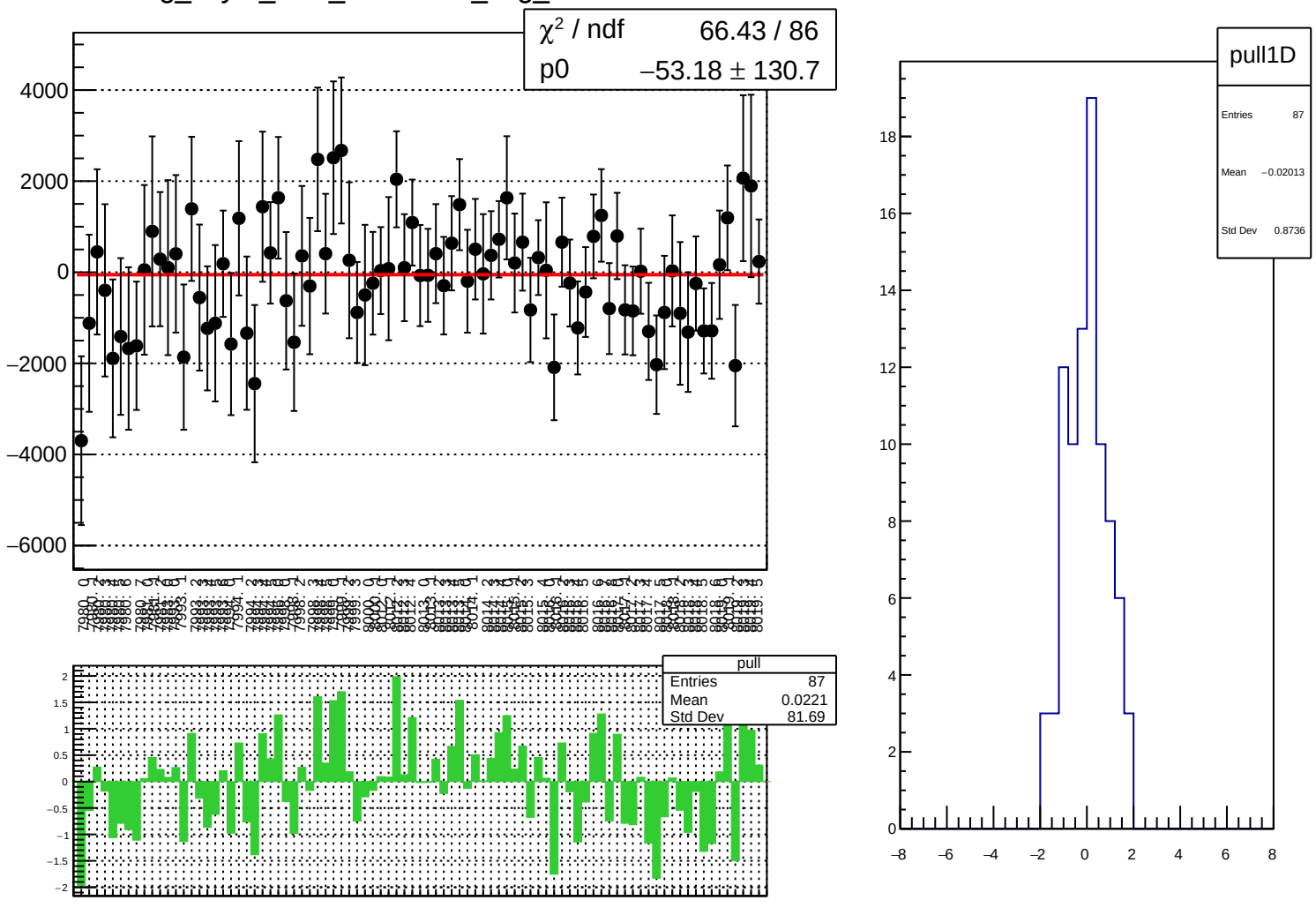

pull1D
Entries 87
Mean −0.1116
Std Dev 1.189

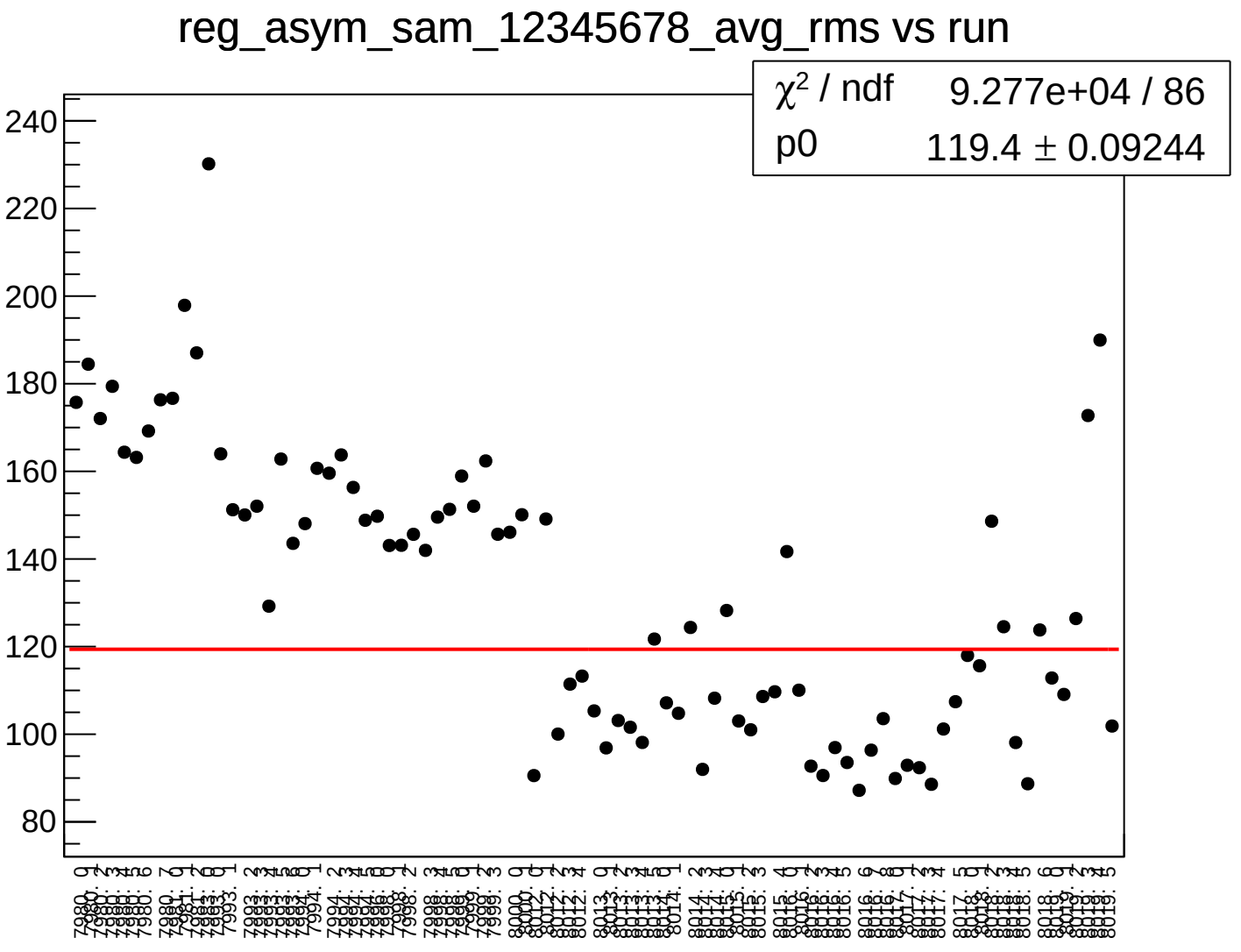

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.449e+05 / 86
p0 16.99 ± 0.01481
80
70
60
50
40
30
20
10

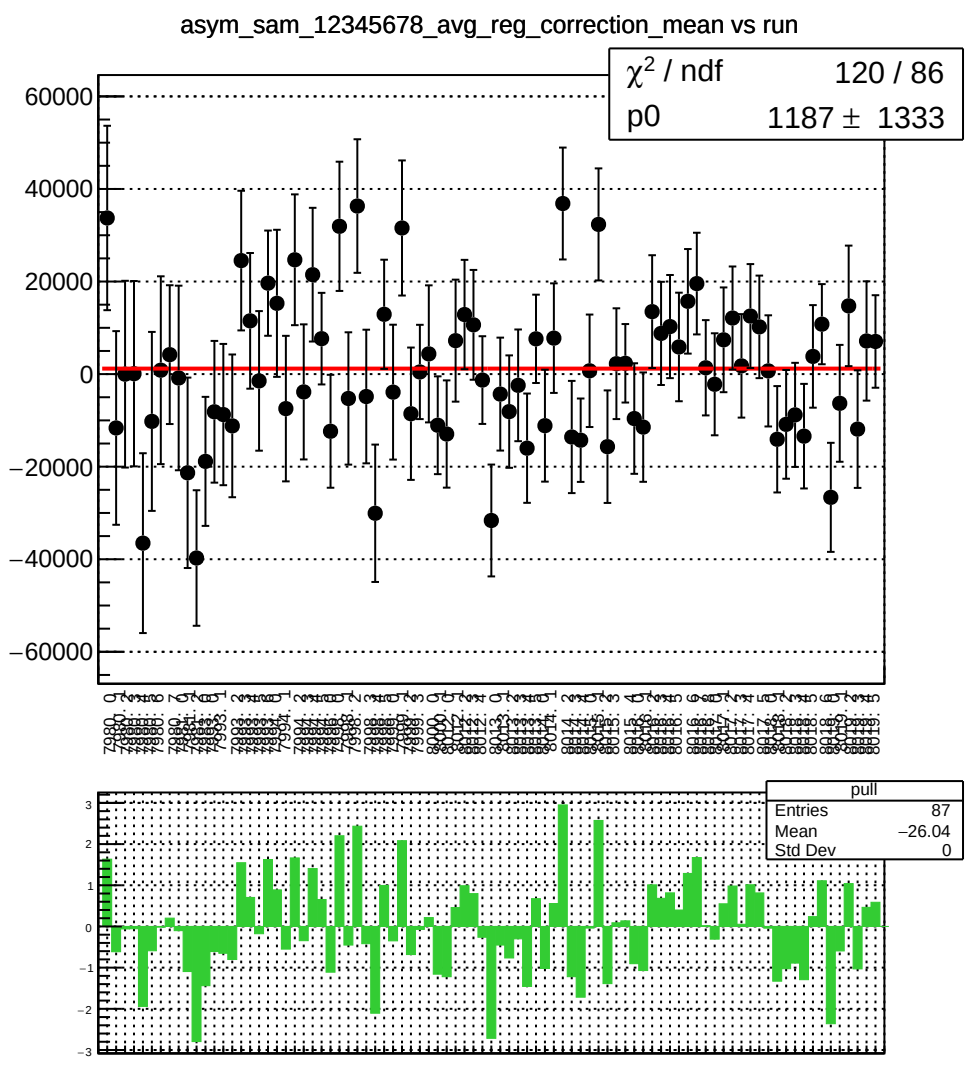

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.36 / 86
p0 −7.16e−15 ± 2.93e−14
pull
Entries 87
Mean 40.28
Std Dev 30.64

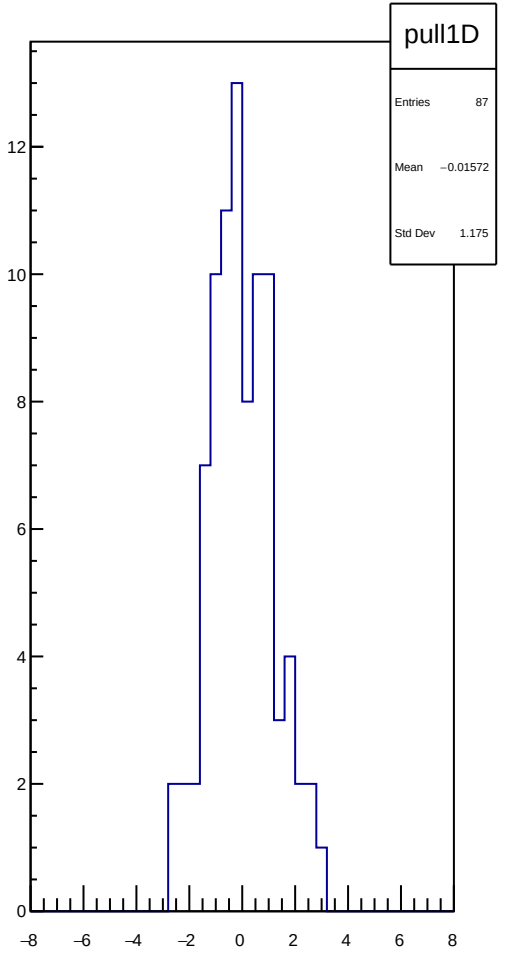

pull1D
Entries 87
Mean −0.06748
Std Dev 1.034

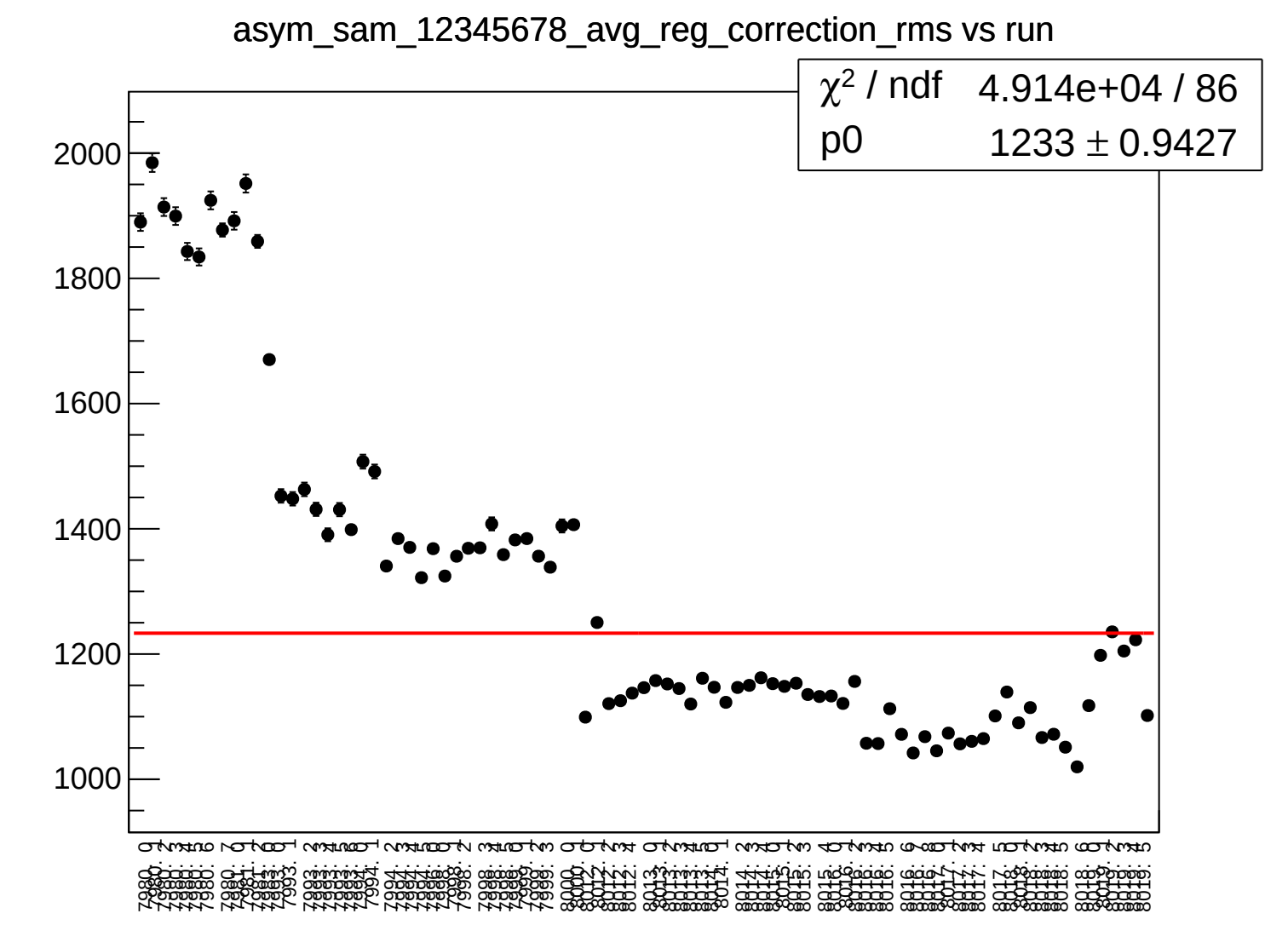

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 7.227e+05 / 86
p0 2.111e−11 ± 2.072e−14

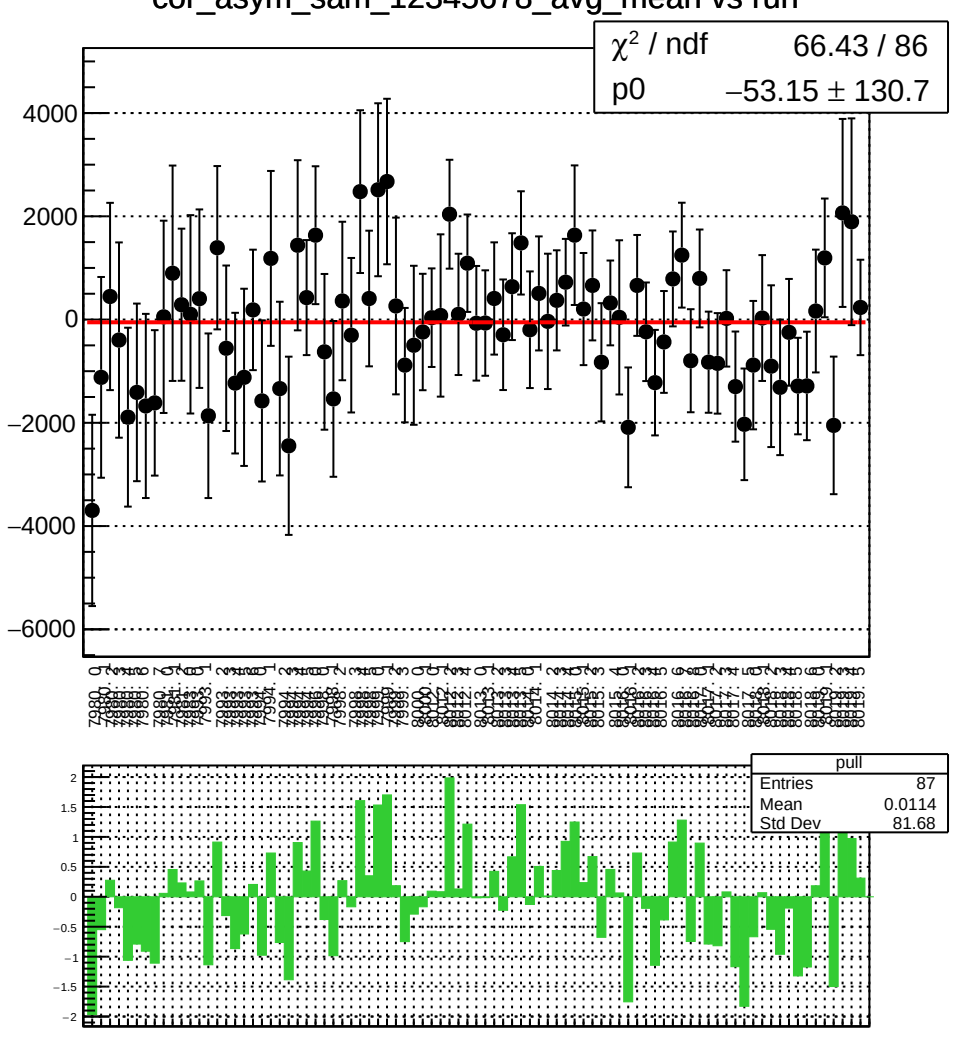

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 66.43 / 86
p0 −53.18 ± 130.7
pull
Entries 87
Mean 0.0221
Std Dev 81.69
pull1D
Entries 87
Mean −0.02013
Std Dev 0.8736

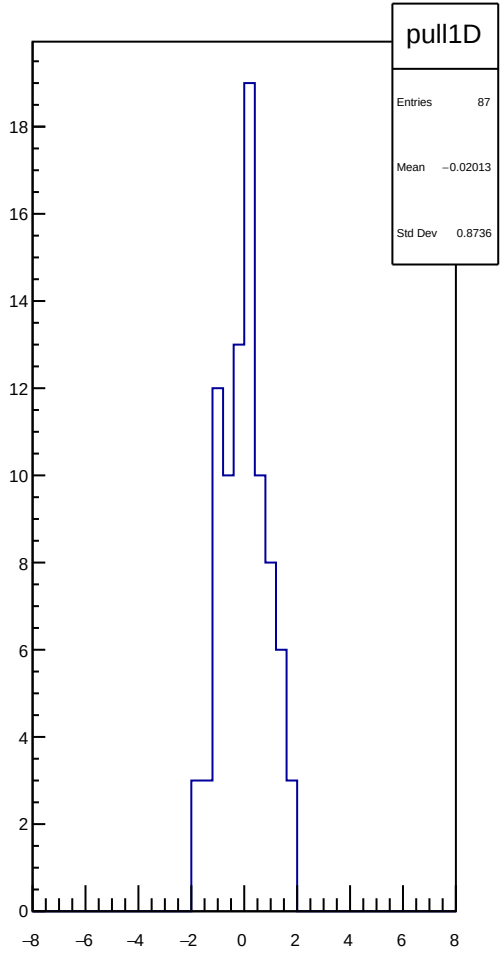

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 9.277e+04 / 86
p0 119.4 ± 0.09244
240
220
200
180
160
140
120
100
80

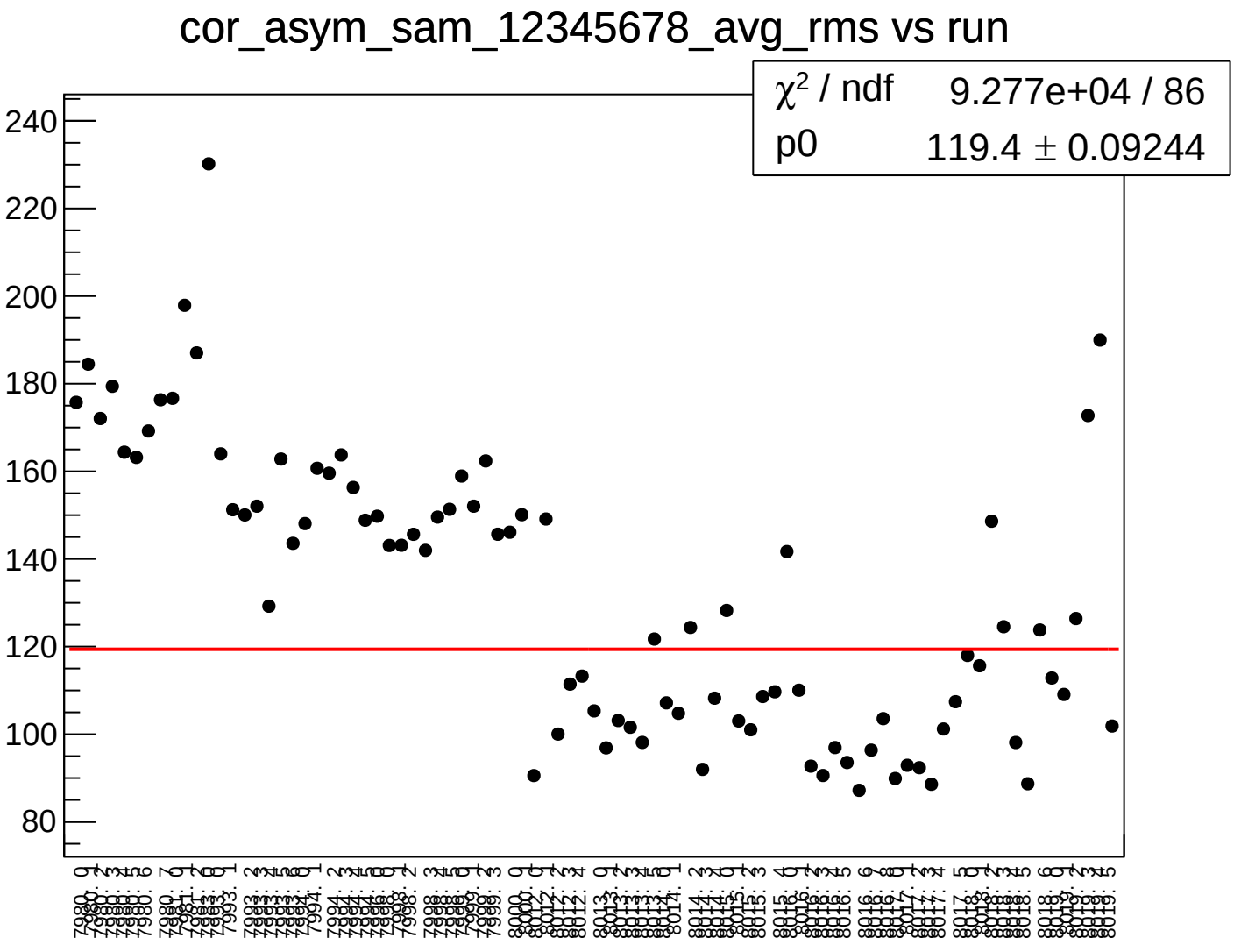

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 120 / 86
p0 1187 ± 1333
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −26.04
Std Dev 0
3
2
1
0
−1
−2
−3

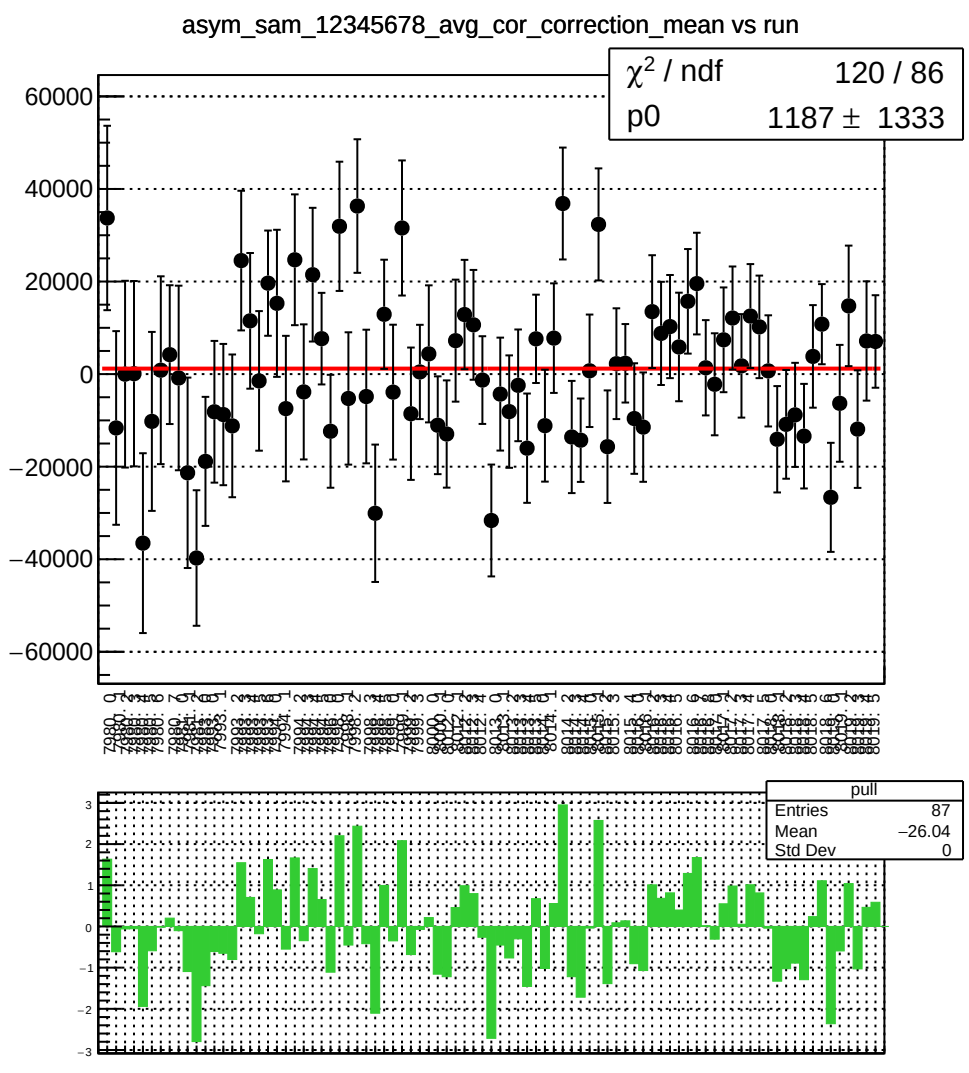

pull1D
Entries 87
Mean −0.01572
Std Dev 1.175
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

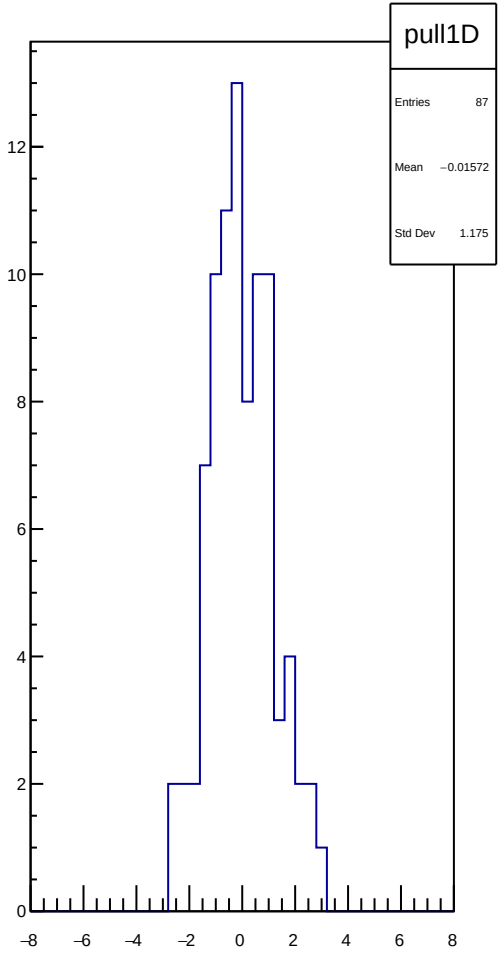

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 4.914e+04 / 86
p0 1233 ± 0.9427
2000
1800
1600
1400
1200
1000

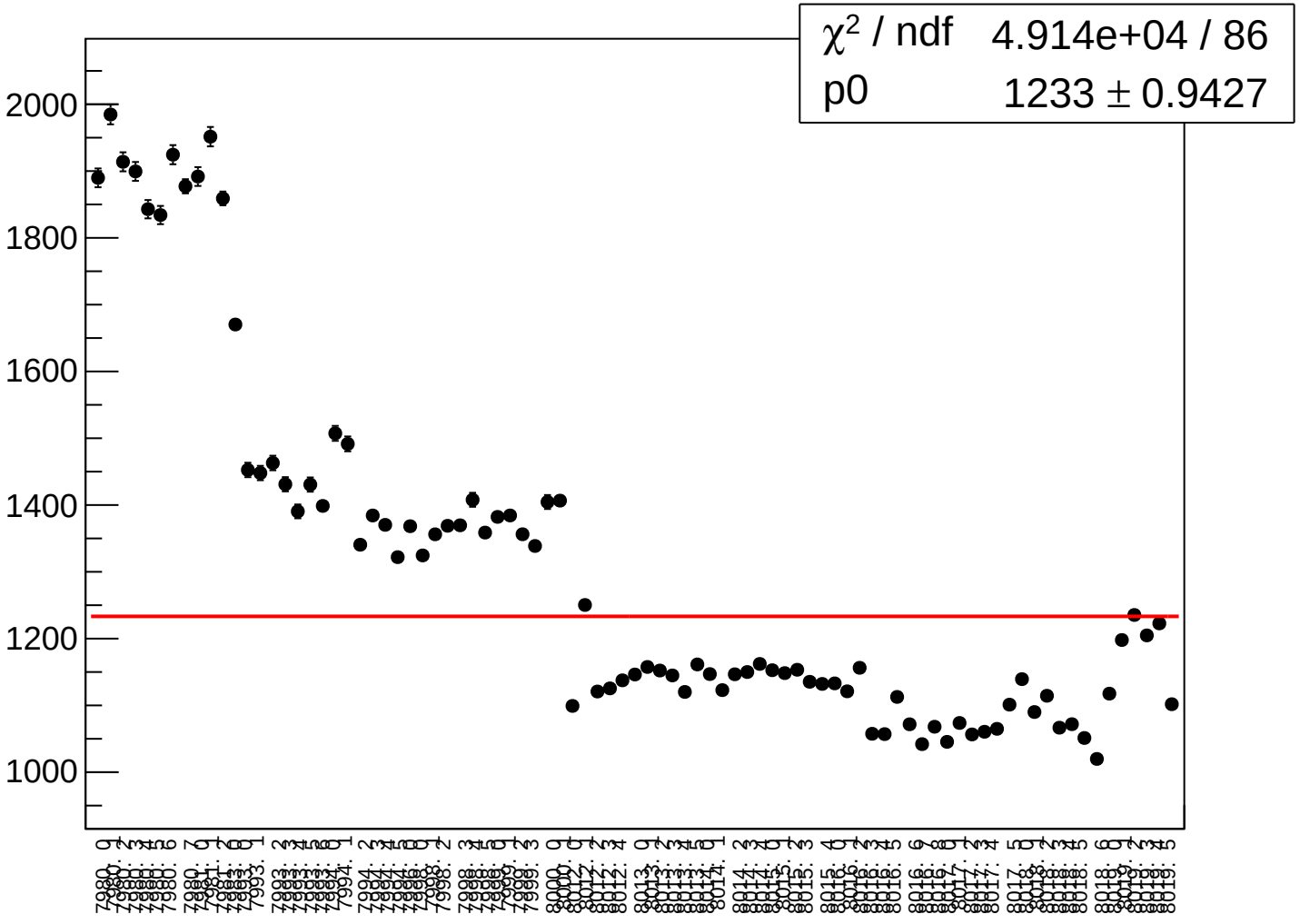

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 66.43 / 86
p0 −53.15 ± 130.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 0.0114
Std Dev 81.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

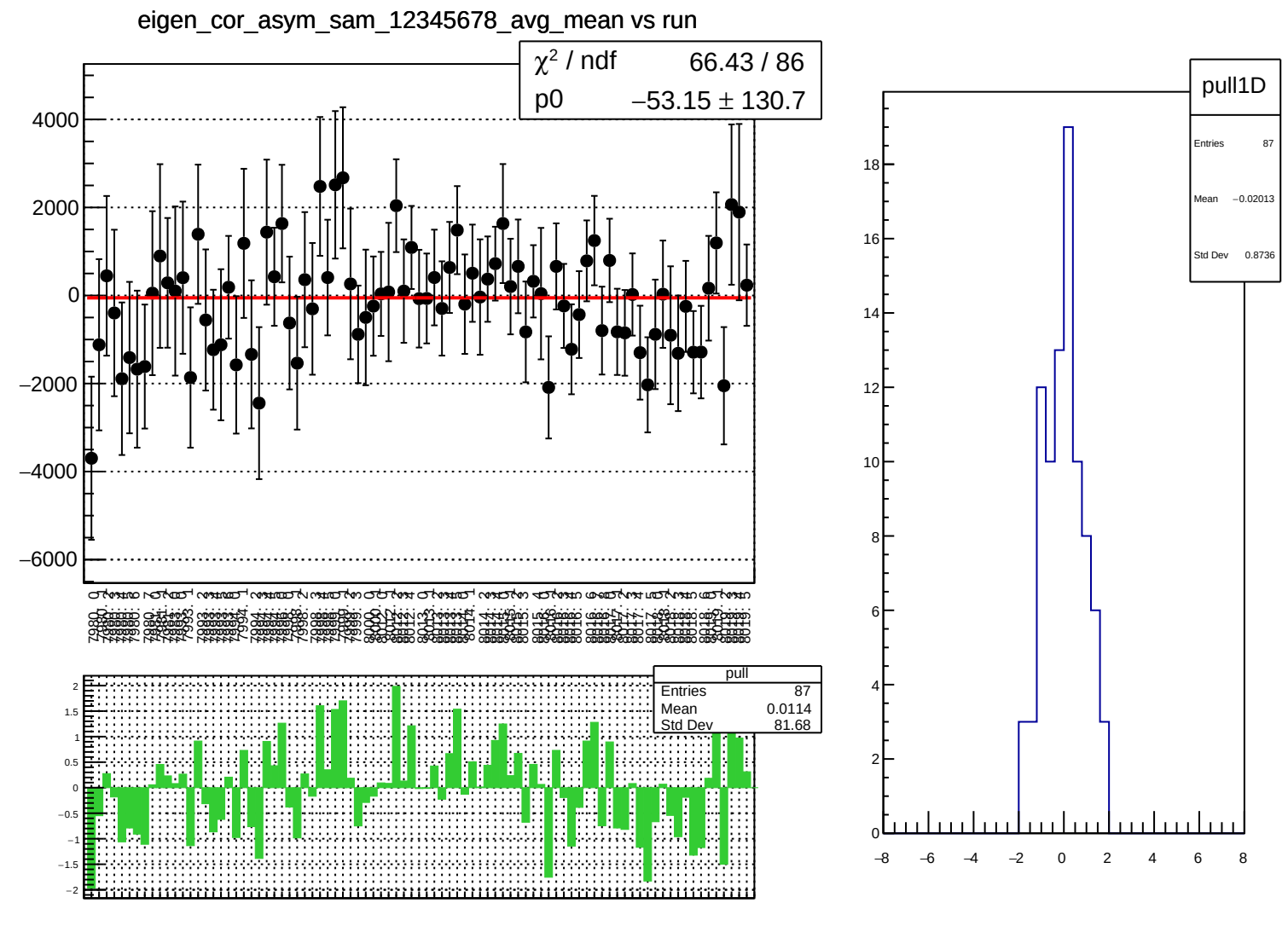

pull1D
Entries 87
Mean −0.02013
Std Dev 0.8736
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

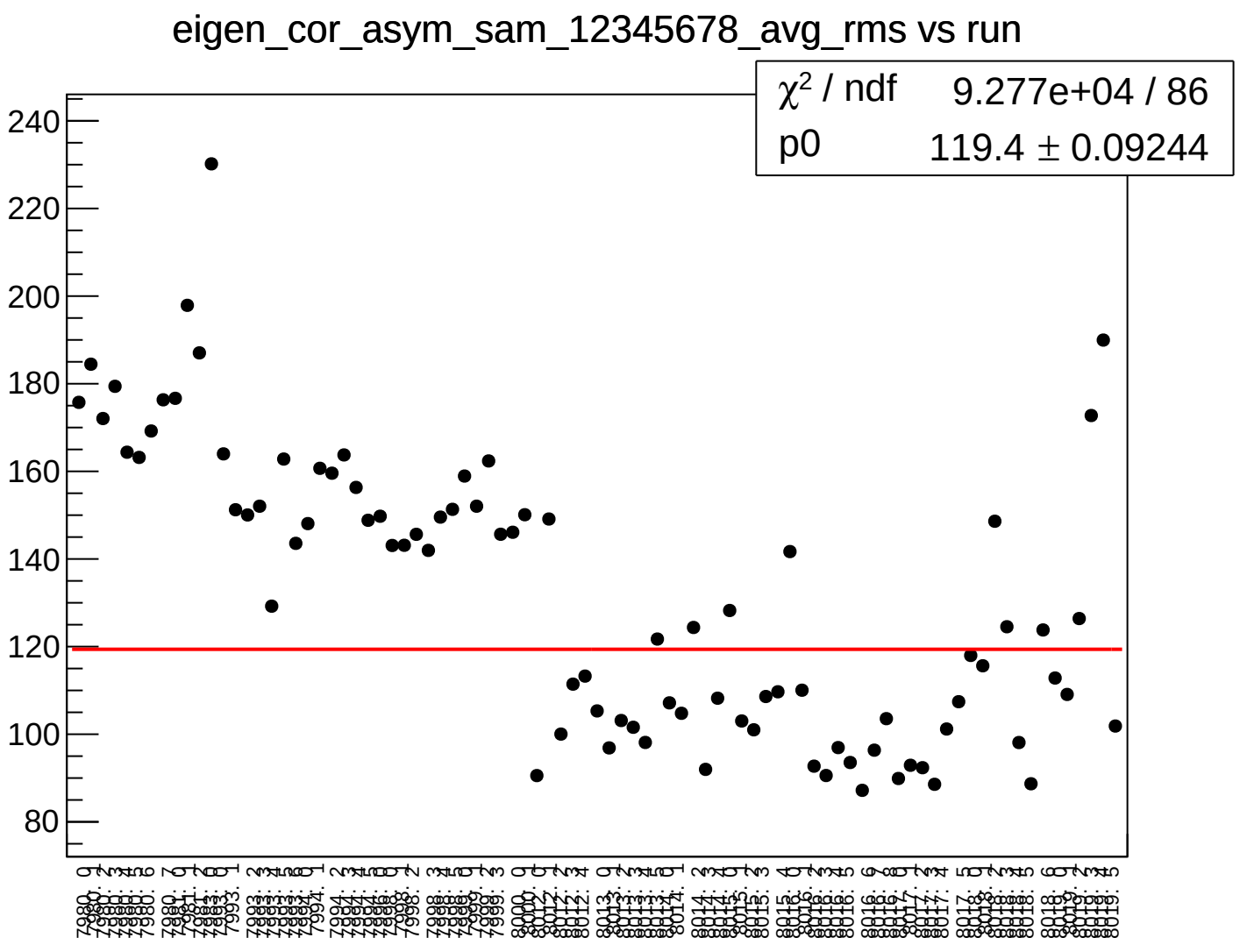

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 9.277e+04 / 86
p0 119.4 ± 0.09244
240
220
200
180
160
140
120
100
80

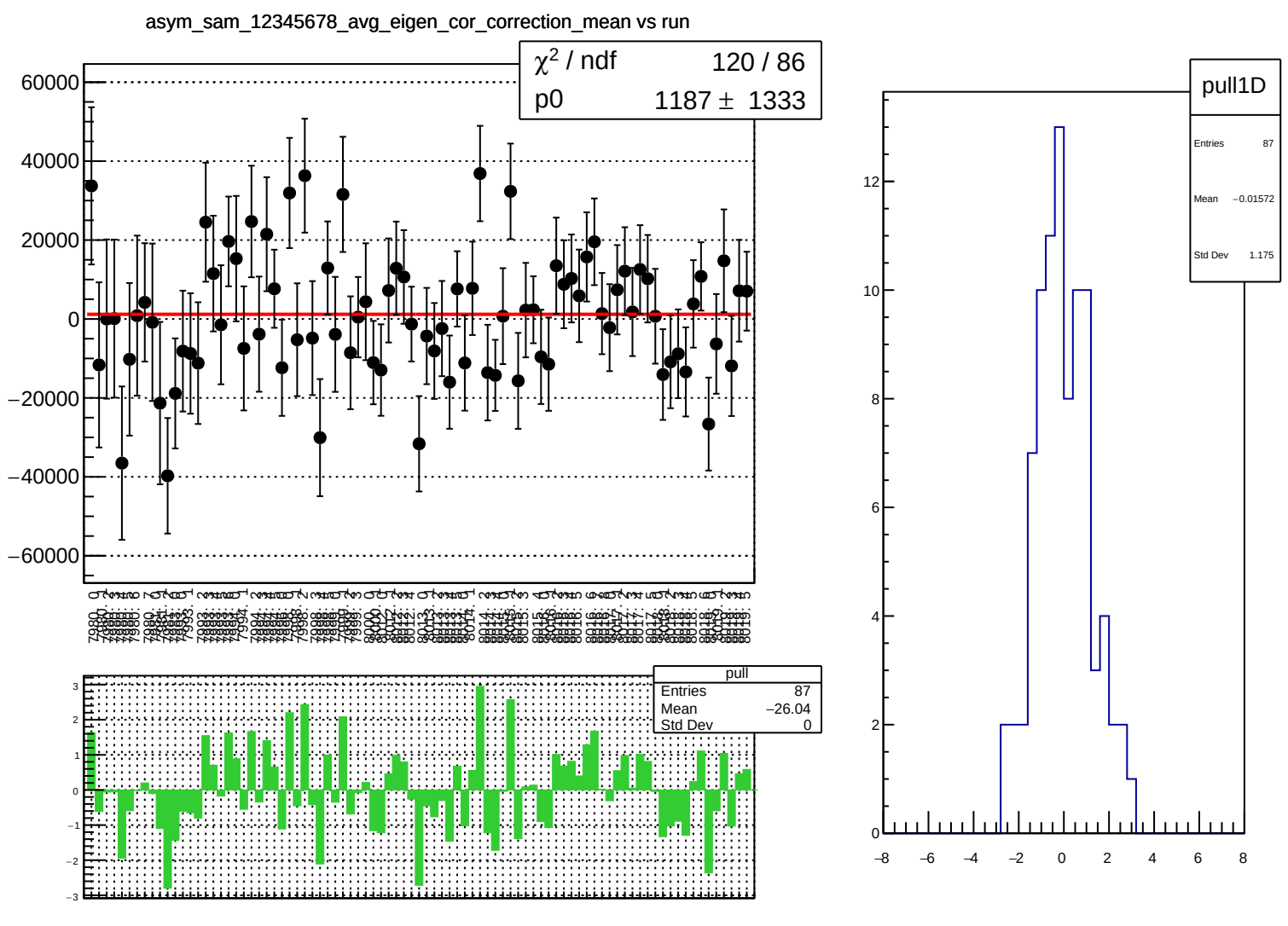

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 120 / 86
p0 1187 ± 1333
pull
Entries 87
Mean −26.04
Std Dev 0

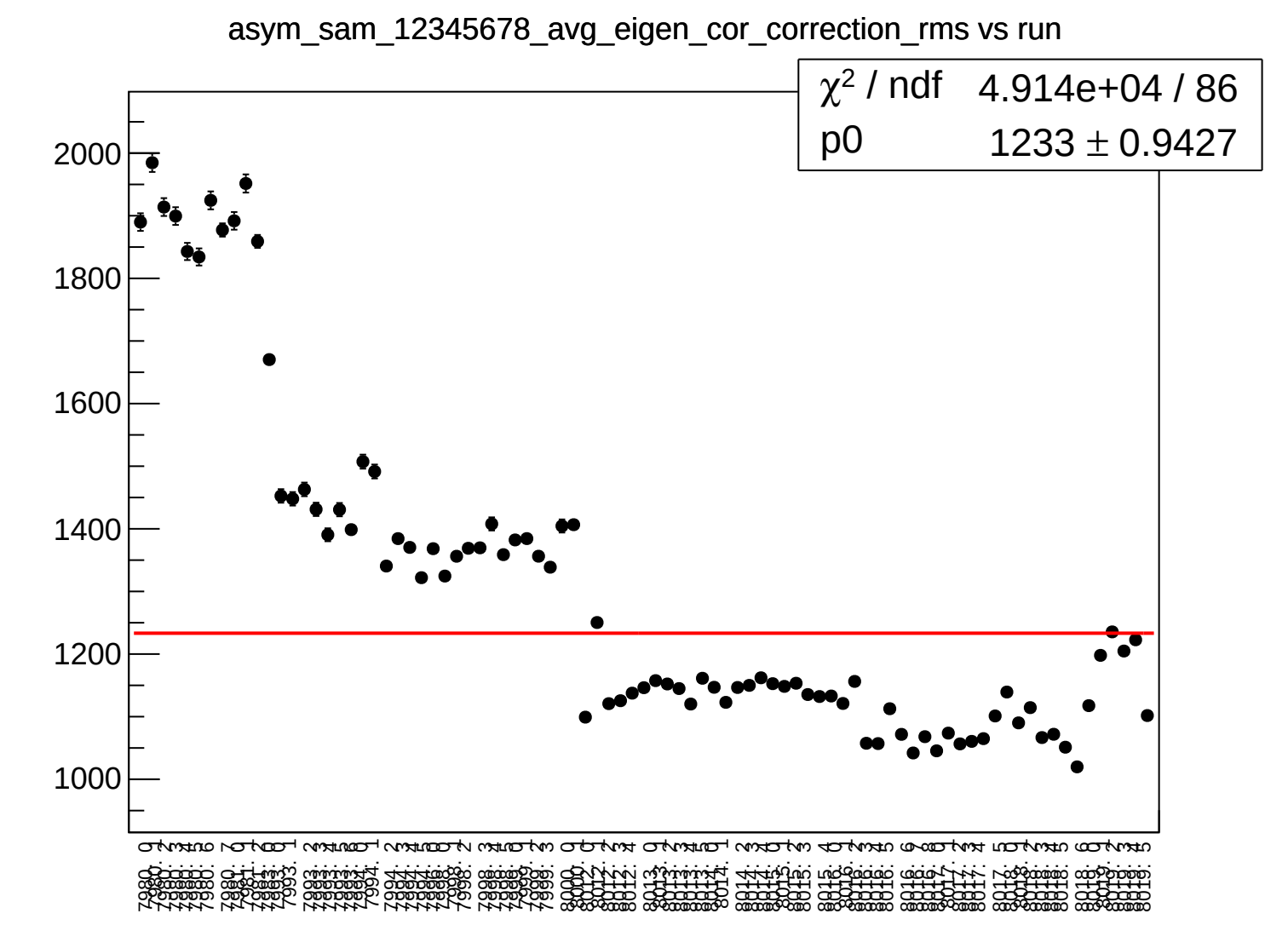

pull1D
Entries 87
Mean −0.01572
Std Dev 1.175

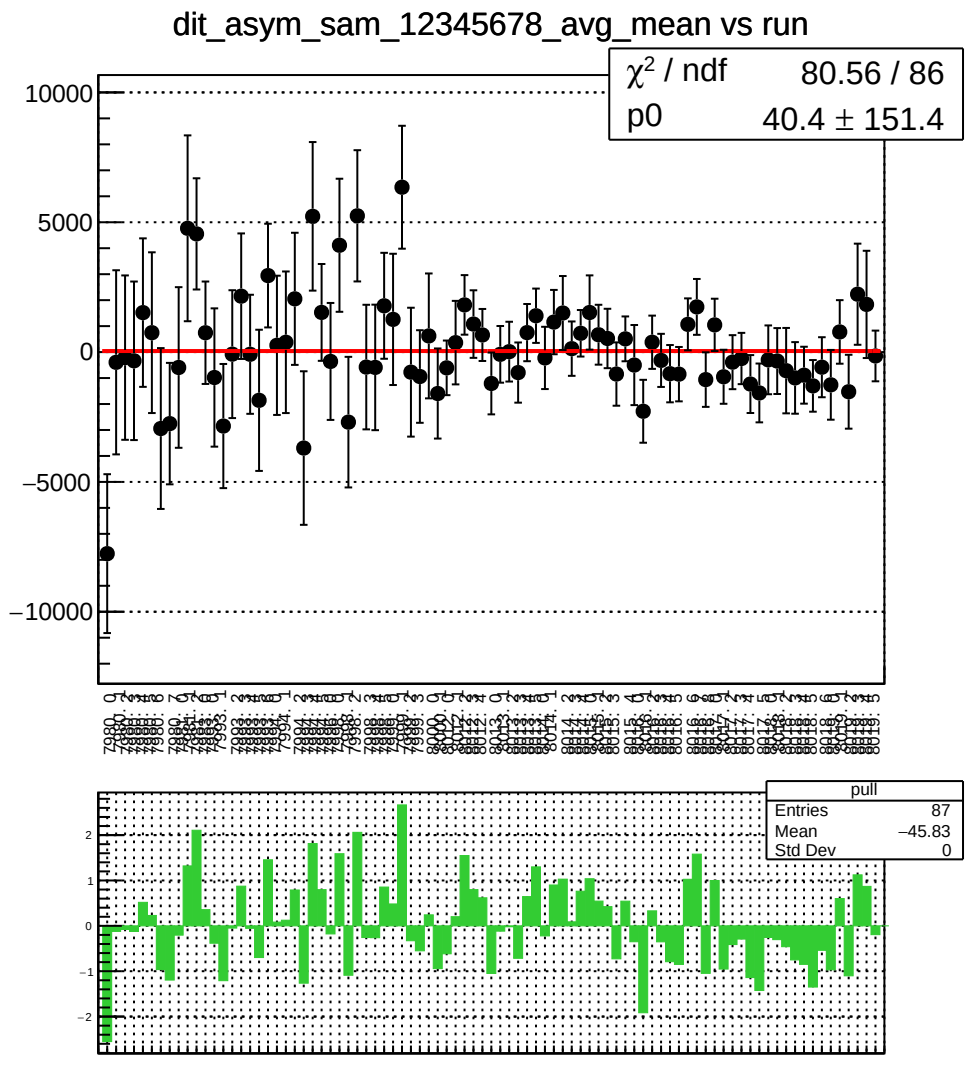

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 4.914e+04 / 86
p0 1233 ± 0.9427
2000
1800
1600
1400
1200
1000

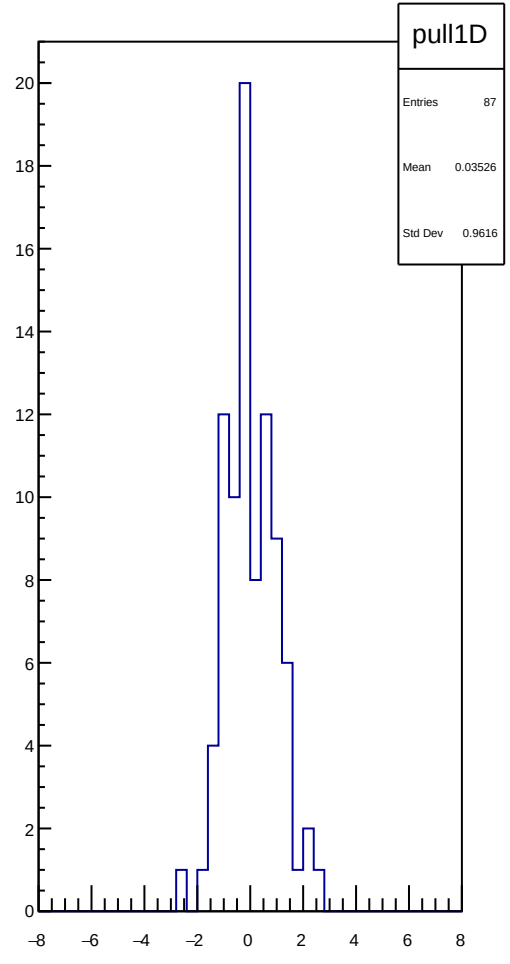

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 66.43 / 86
p0 −53.15 ± 130.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 0.0114
Std Dev 81.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.02013
Std Dev 0.8736
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

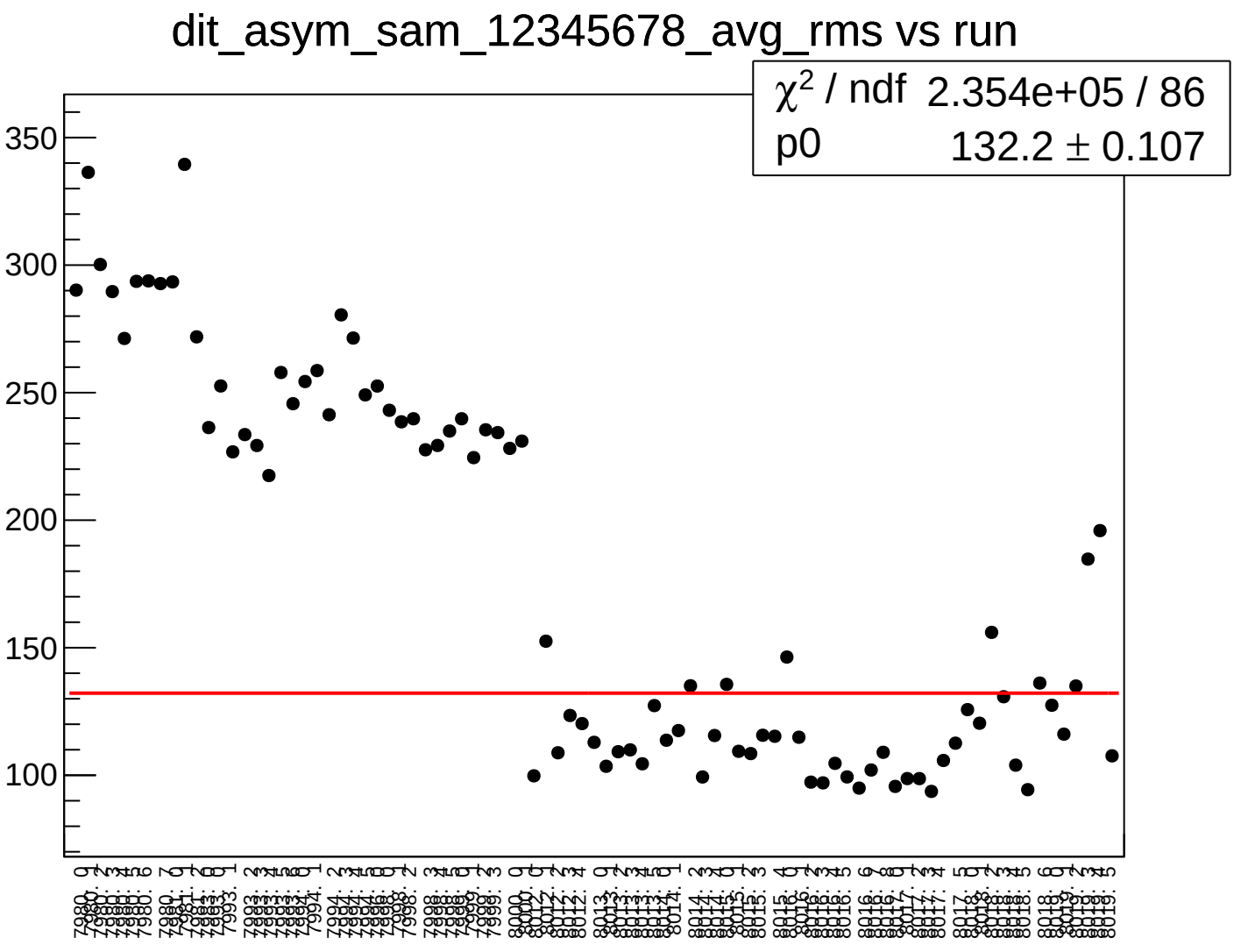

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 9.277e+04 / 86
p0 119.4 ± 0.09244
240
220
200
180
160
140
120
100
80

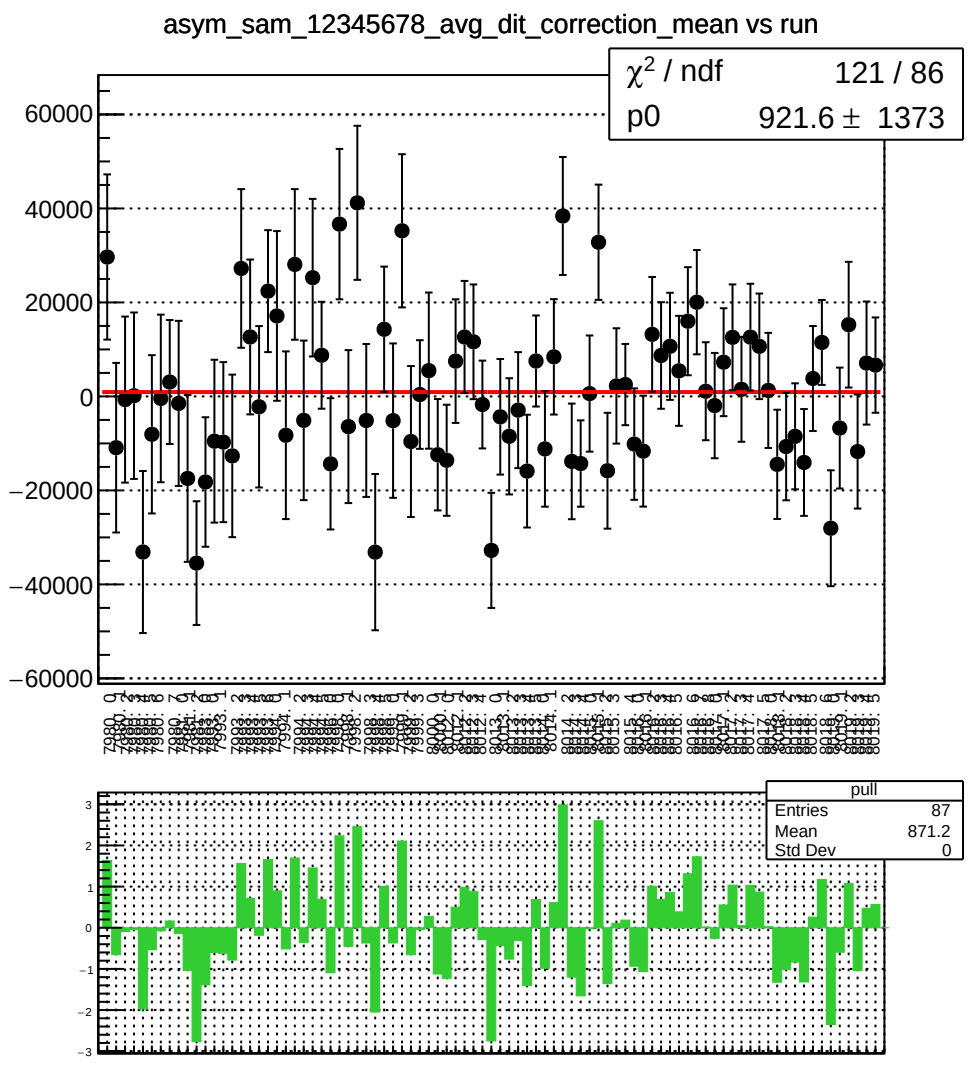

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 120 / 86
p0 1187 ± 1333
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −26.04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.01572
Std Dev 1.175
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

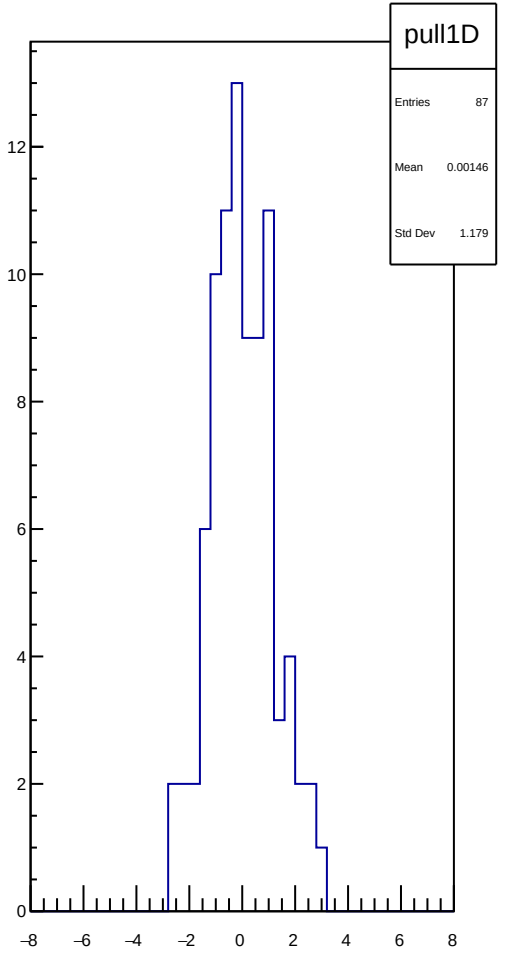

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.914e+04 / 86
p0 1233 ± 0.9427
2000
1800
1600
1400
1200
1000

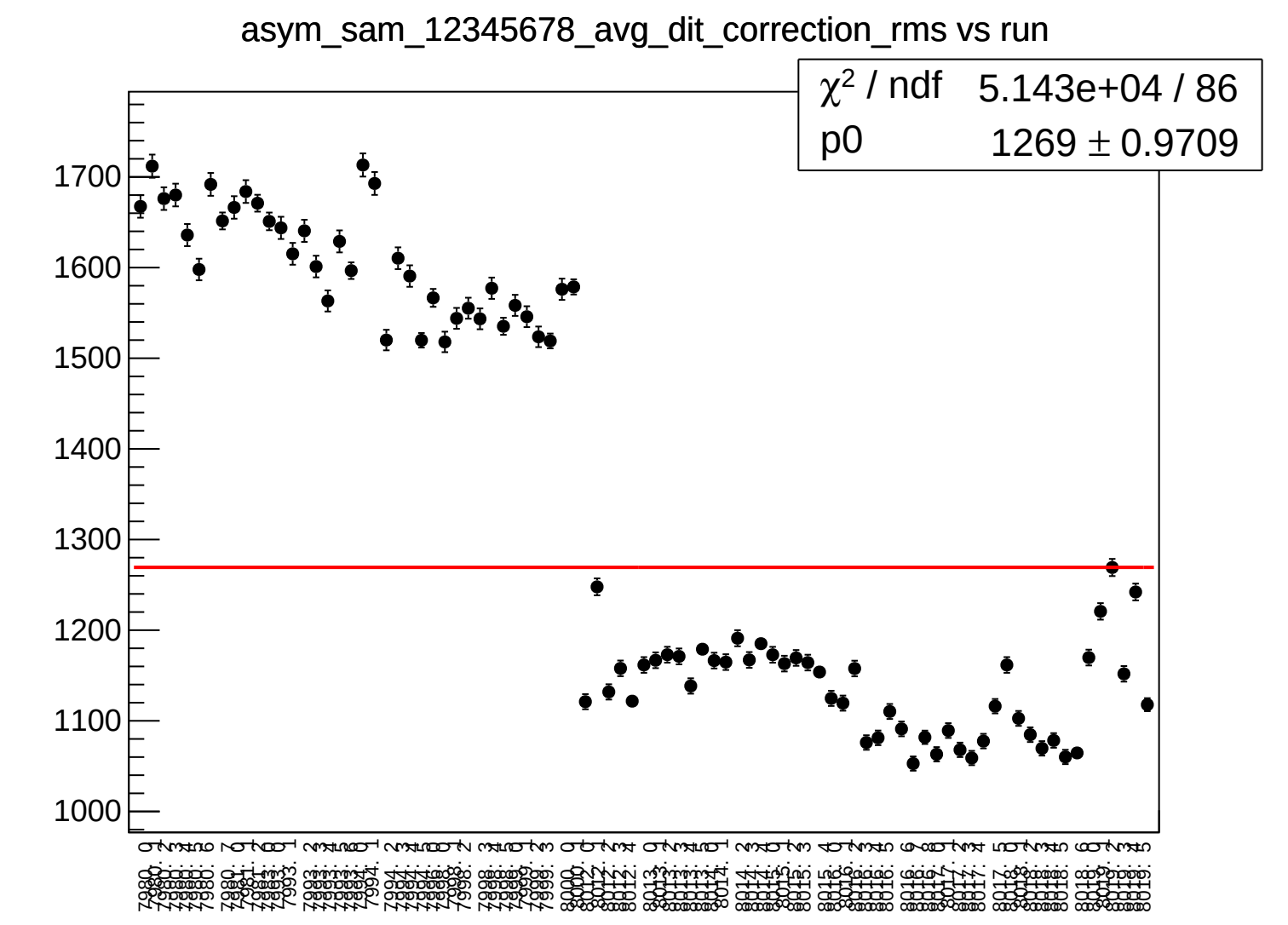

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 80.56 / 86
p0 40.4 ± 151.4
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −45.83
Std Dev 0
2
1
0
−1
−2

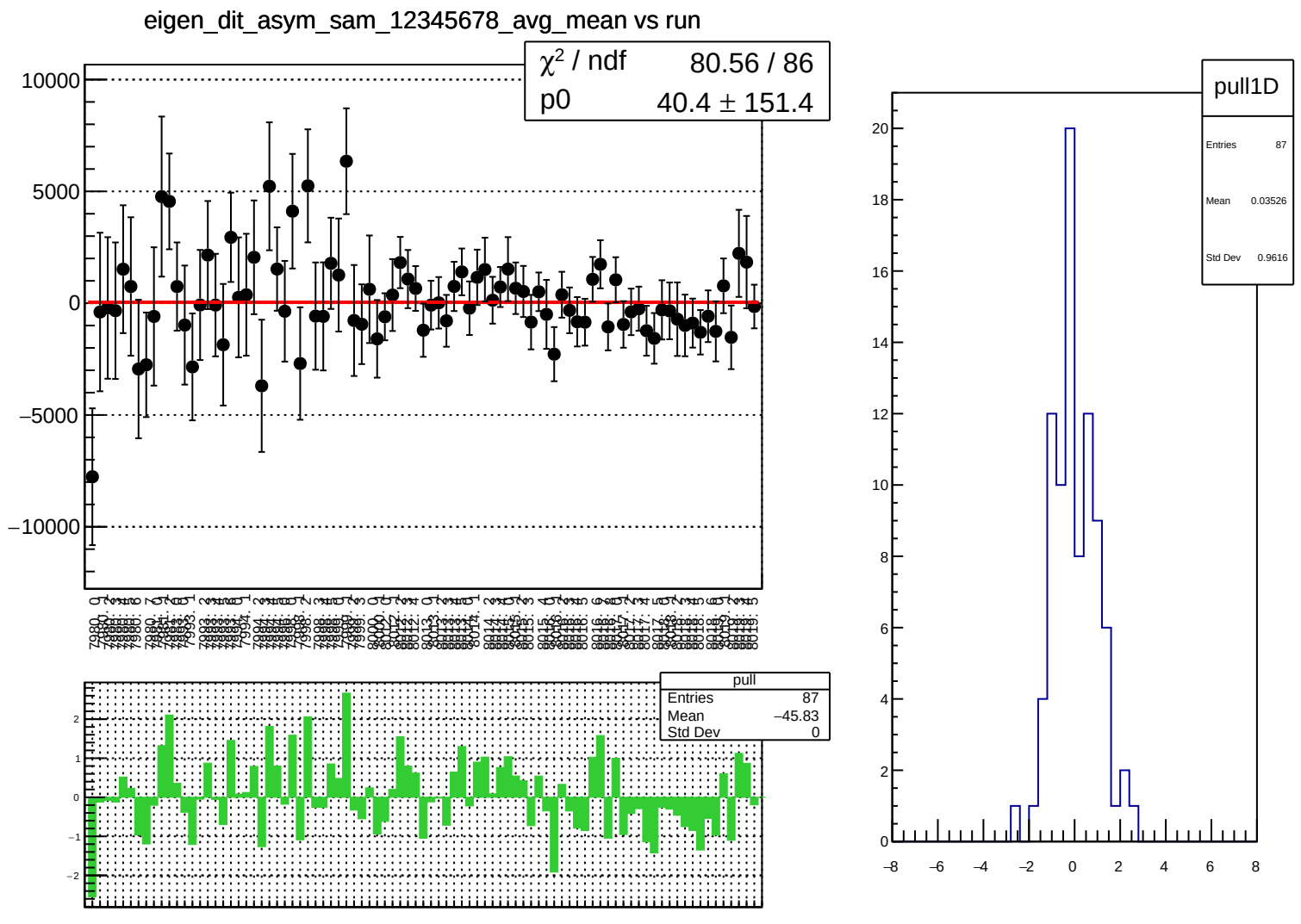

pull1D
Entries 87
Mean 0.03526
Std Dev 0.9616
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

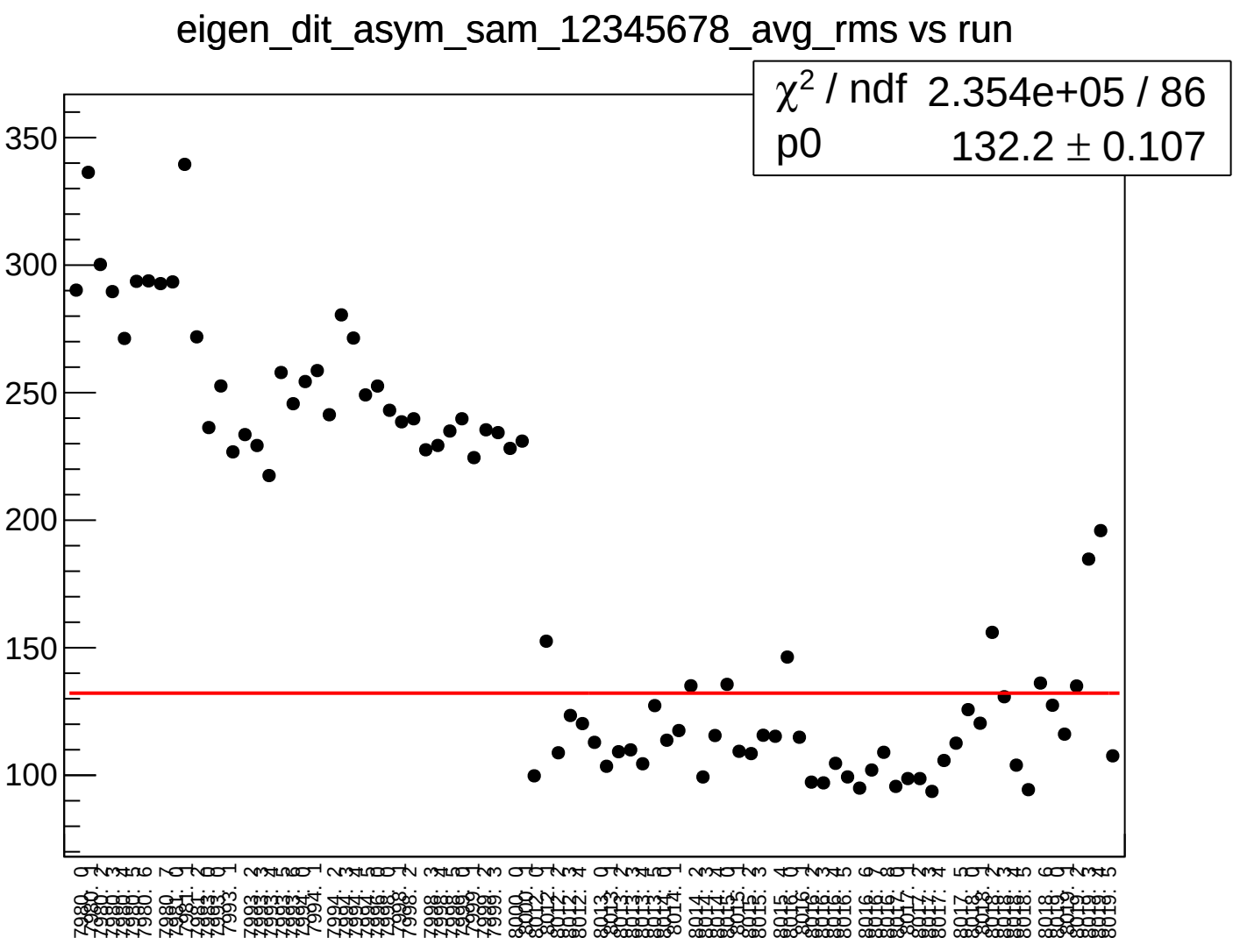

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.354e+05 / 86
p0 132.2 ± 0.107
350
300
250
200
150
100

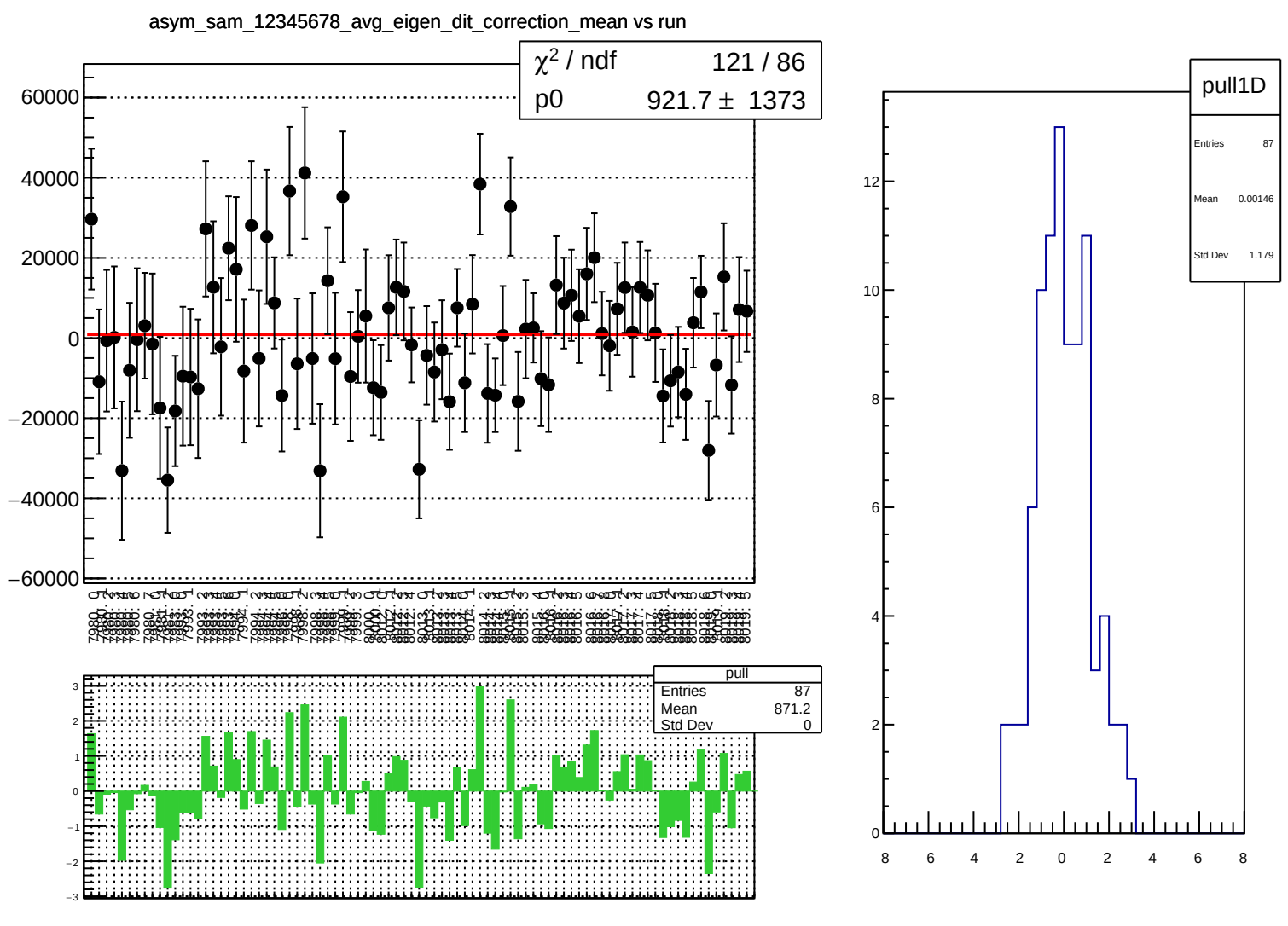

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 121 / 86
p0 921.6 ± 1373
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 871.2
Std Dev 0
3
2
1
0
−1
−2
−3

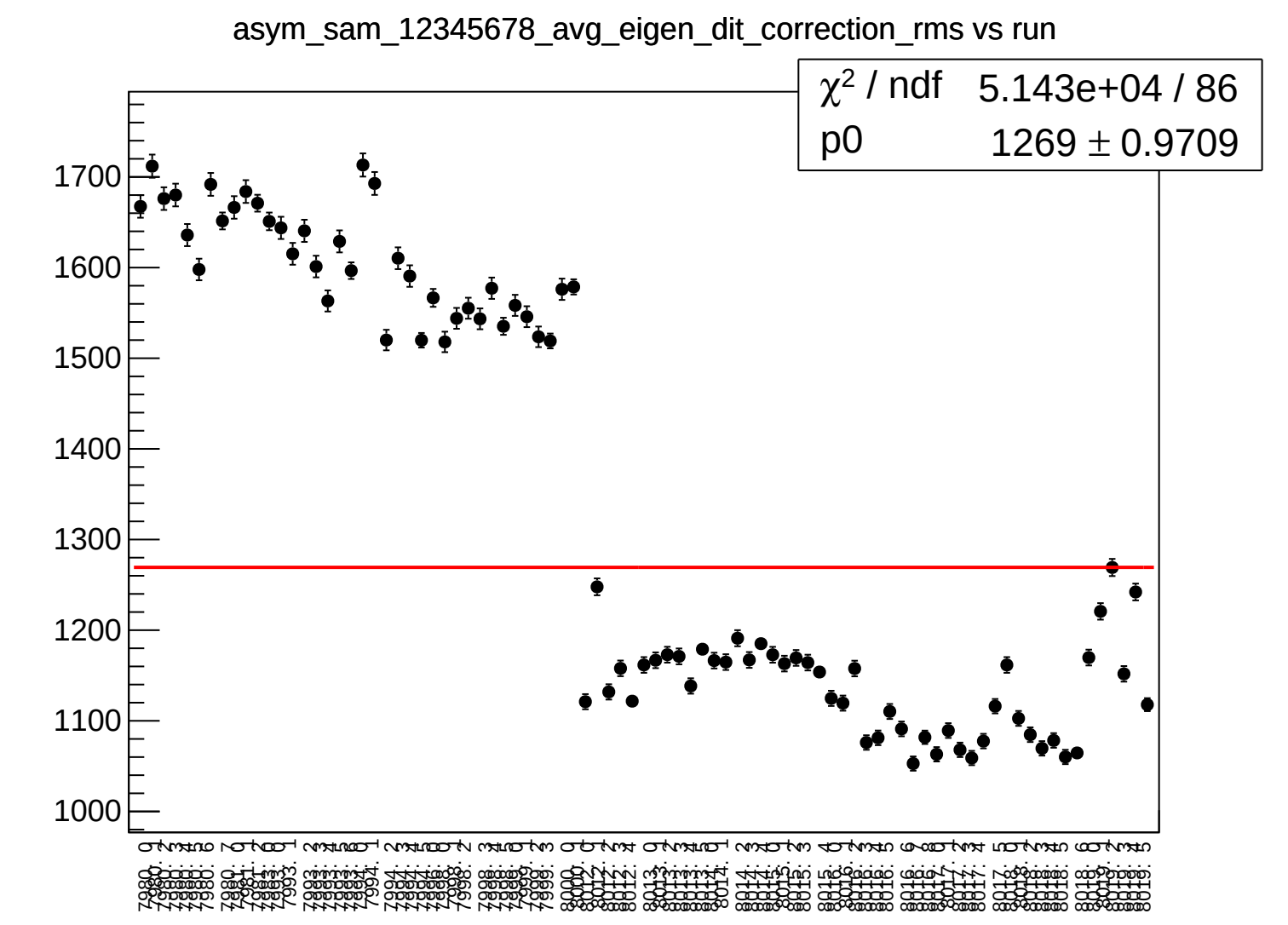

pull1D
Entries 87
Mean 0.00146
Std Dev 1.179
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

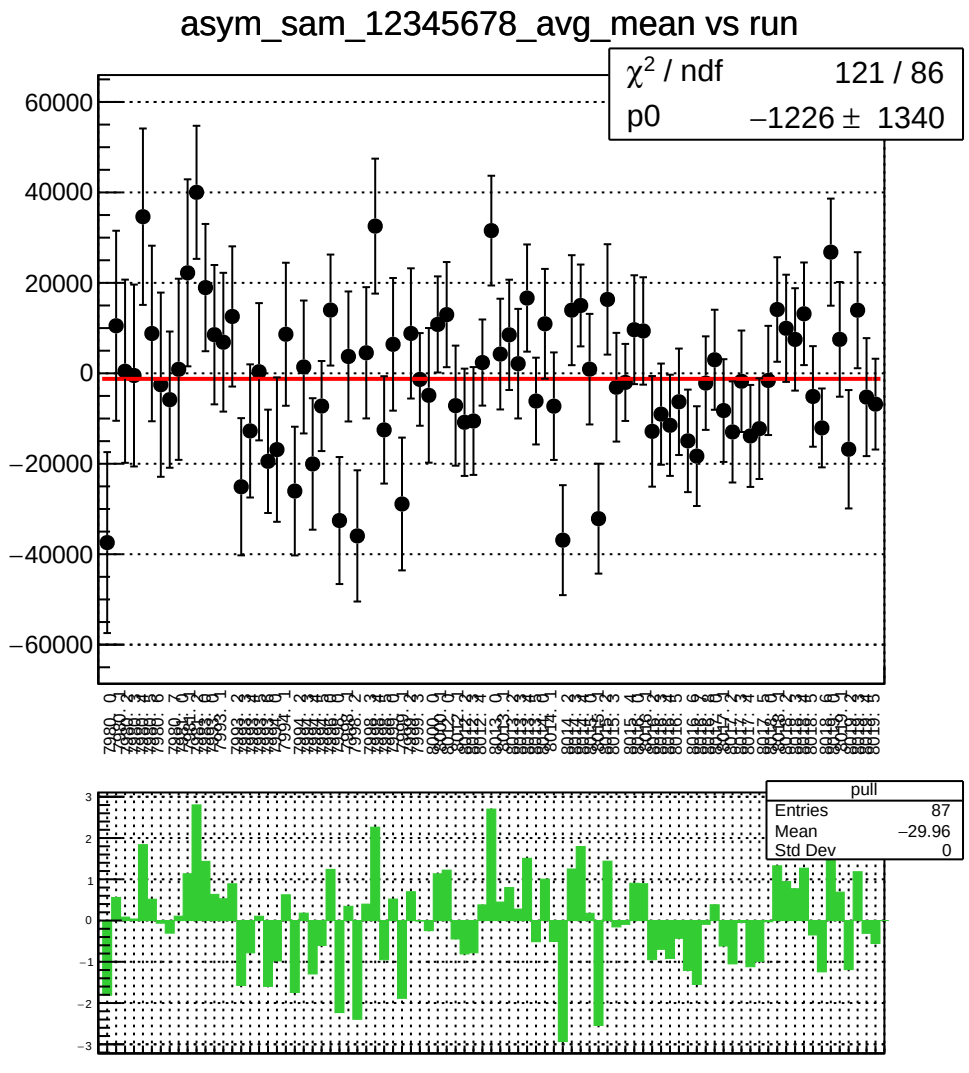

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 5.143e+04 / 86
p0 1269 ± 0.9709
1700
1600
1500
1400
1300
1200
1100
1000

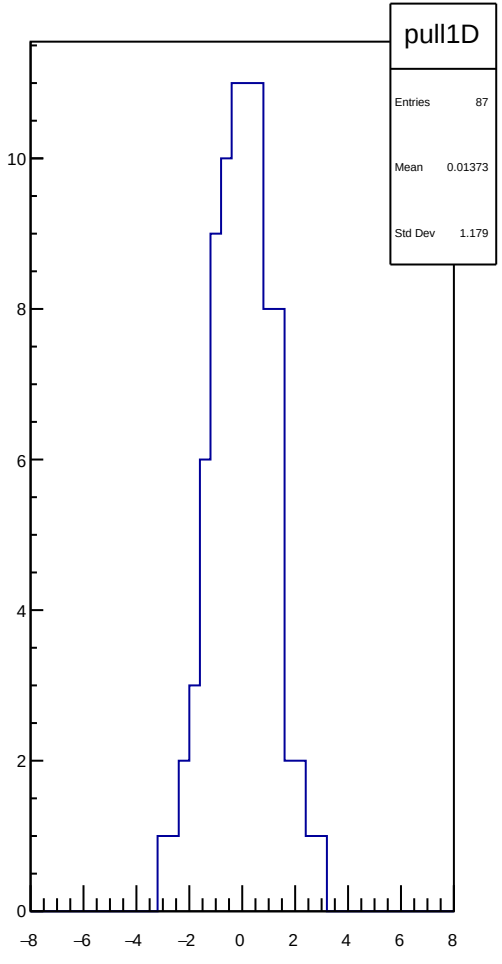

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 80.56 / 86
p0 40.4 ± 151.4
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −45.83
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.03526
Std Dev 0.9616
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

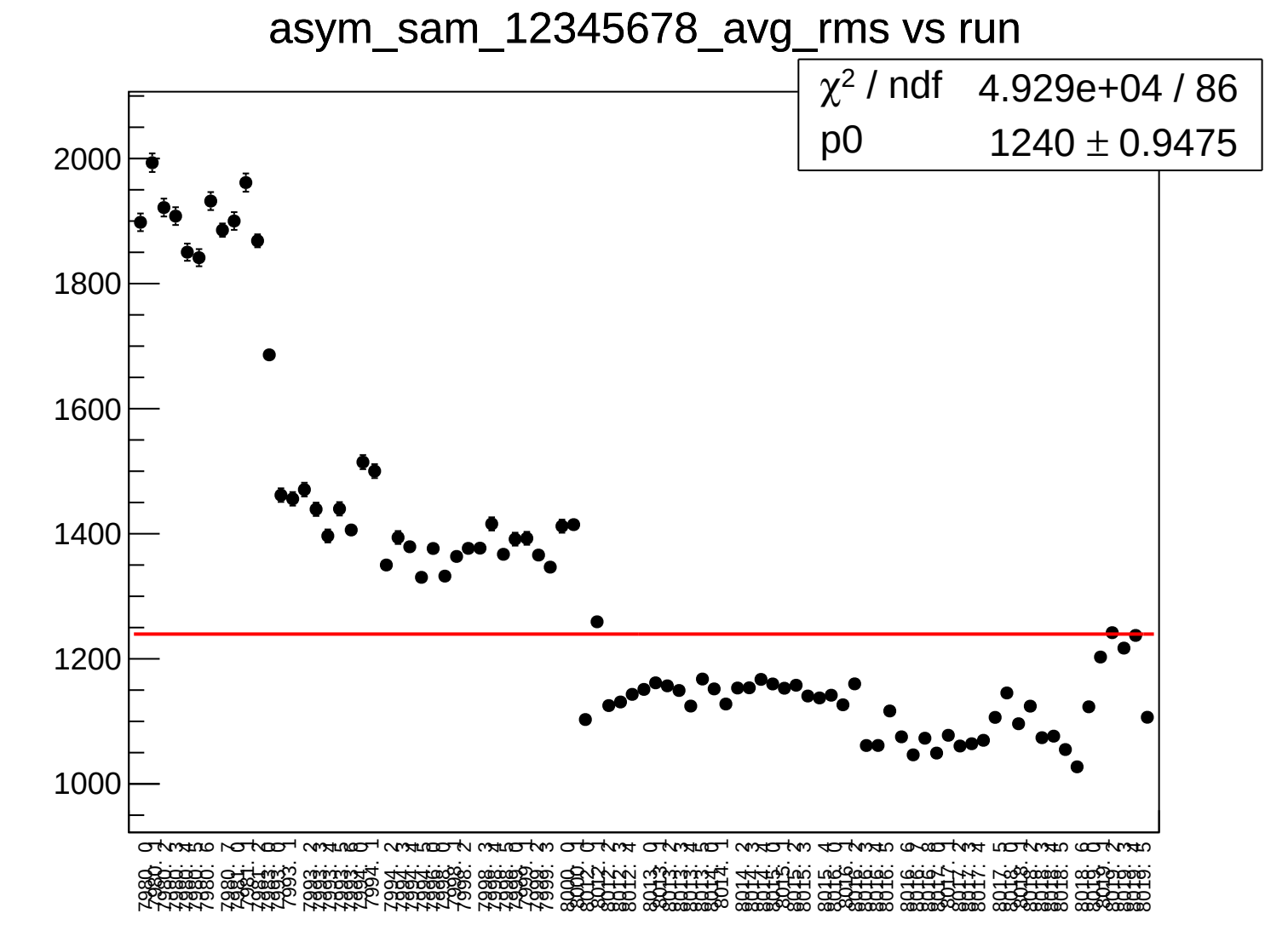

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.354e+05 / 86
p0 132.2 ± 0.107
350
300
250
200
150
100

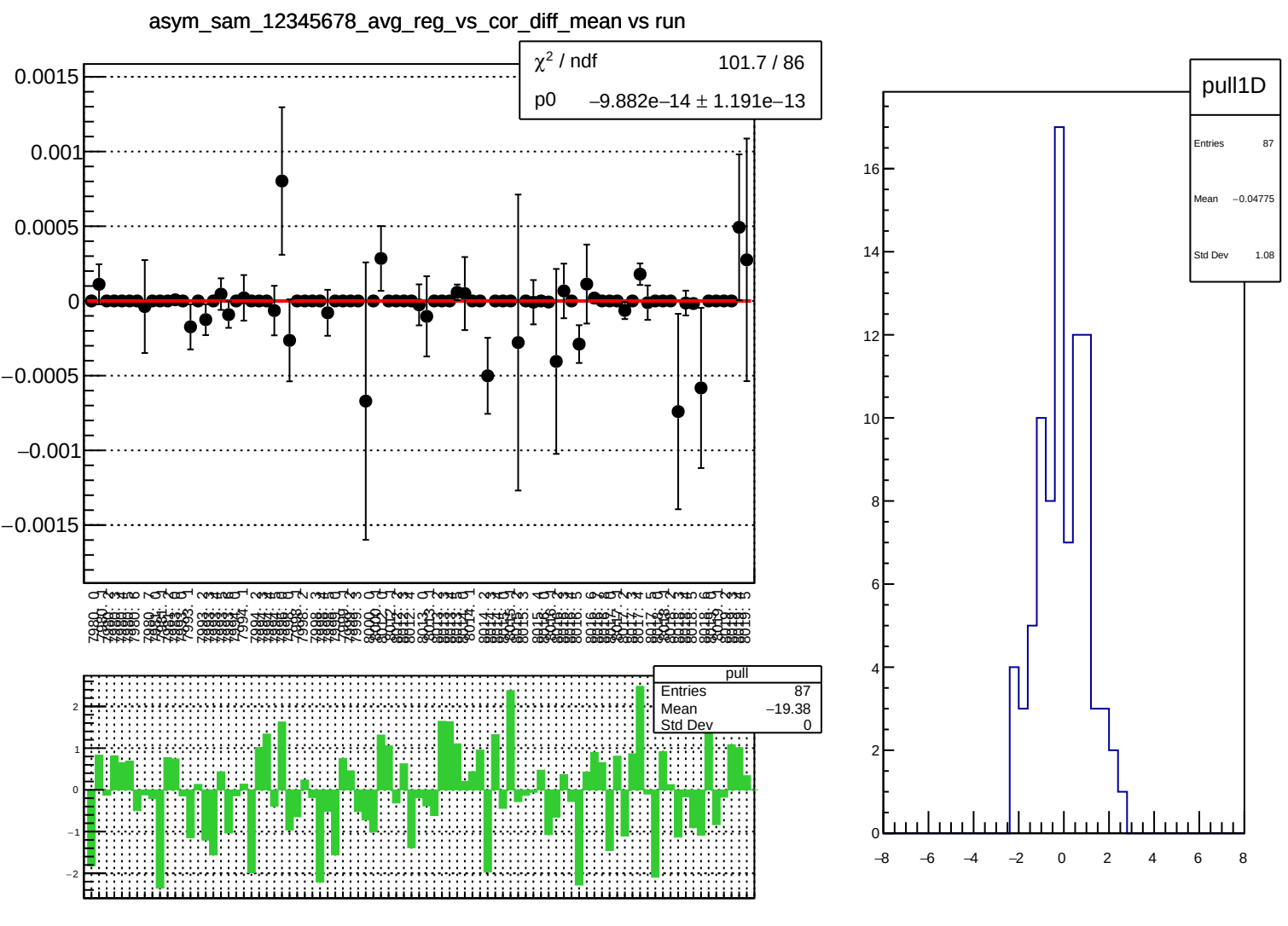

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 121 / 86
p0 921.7 ± 1373
pull
Entries 87
Mean 871.2
Std Dev 0
pull1D
Entries 87
Mean 0.00146
Std Dev 1.179

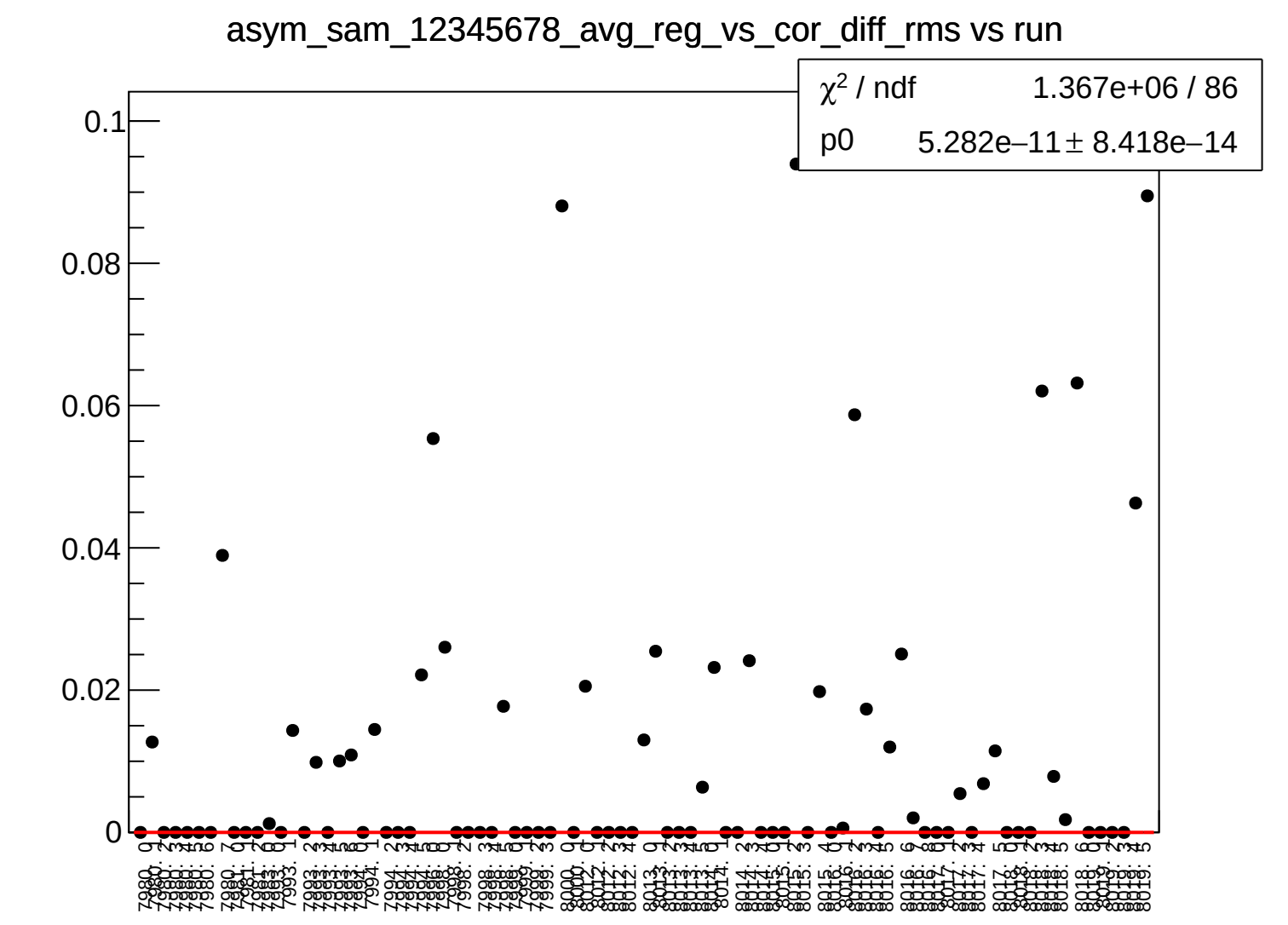

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.143e+04 / 86
p0 1269 ± 0.9709
1700
1600
1500
1400
1300
1200
1100
1000

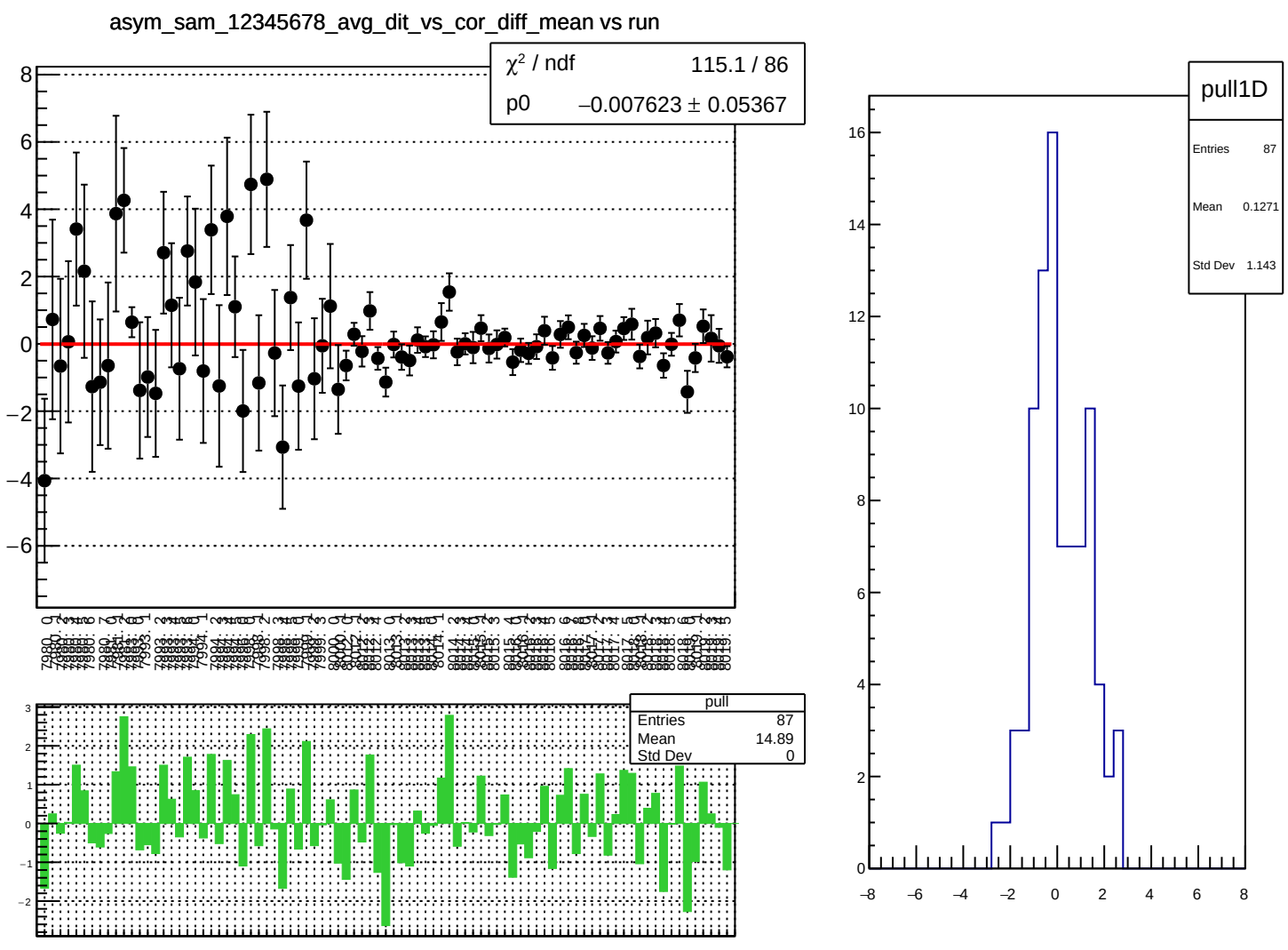

asym_sam_12345678_avg_mean vs run
χ² / ndf 121 / 86
p0 −1226 ± 1340
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −29.96
Std Dev 0
3
2
1
0
−1
−2
−3

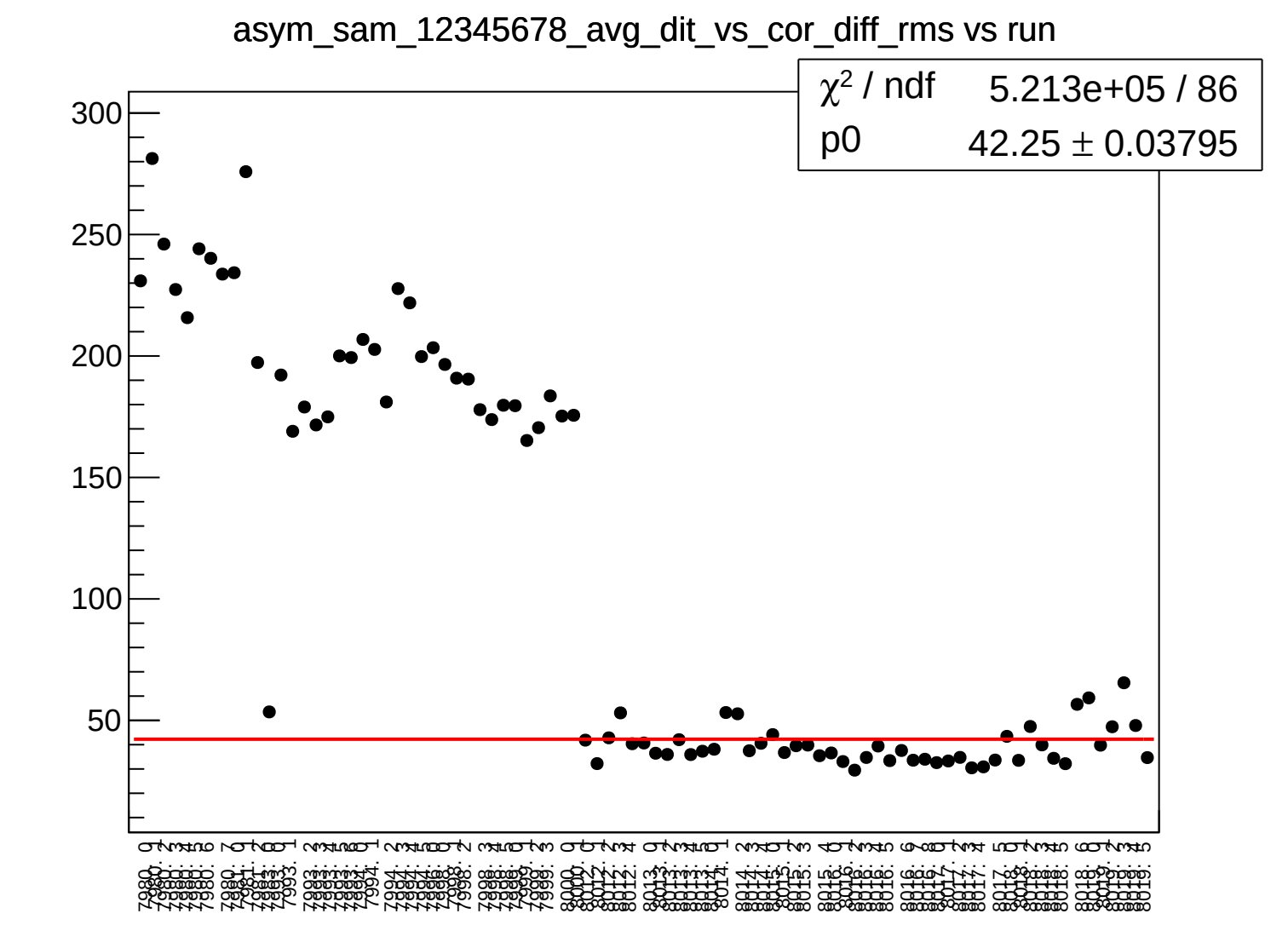

pull1D
Entries 87
Mean 0.01373
Std Dev 1.179
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

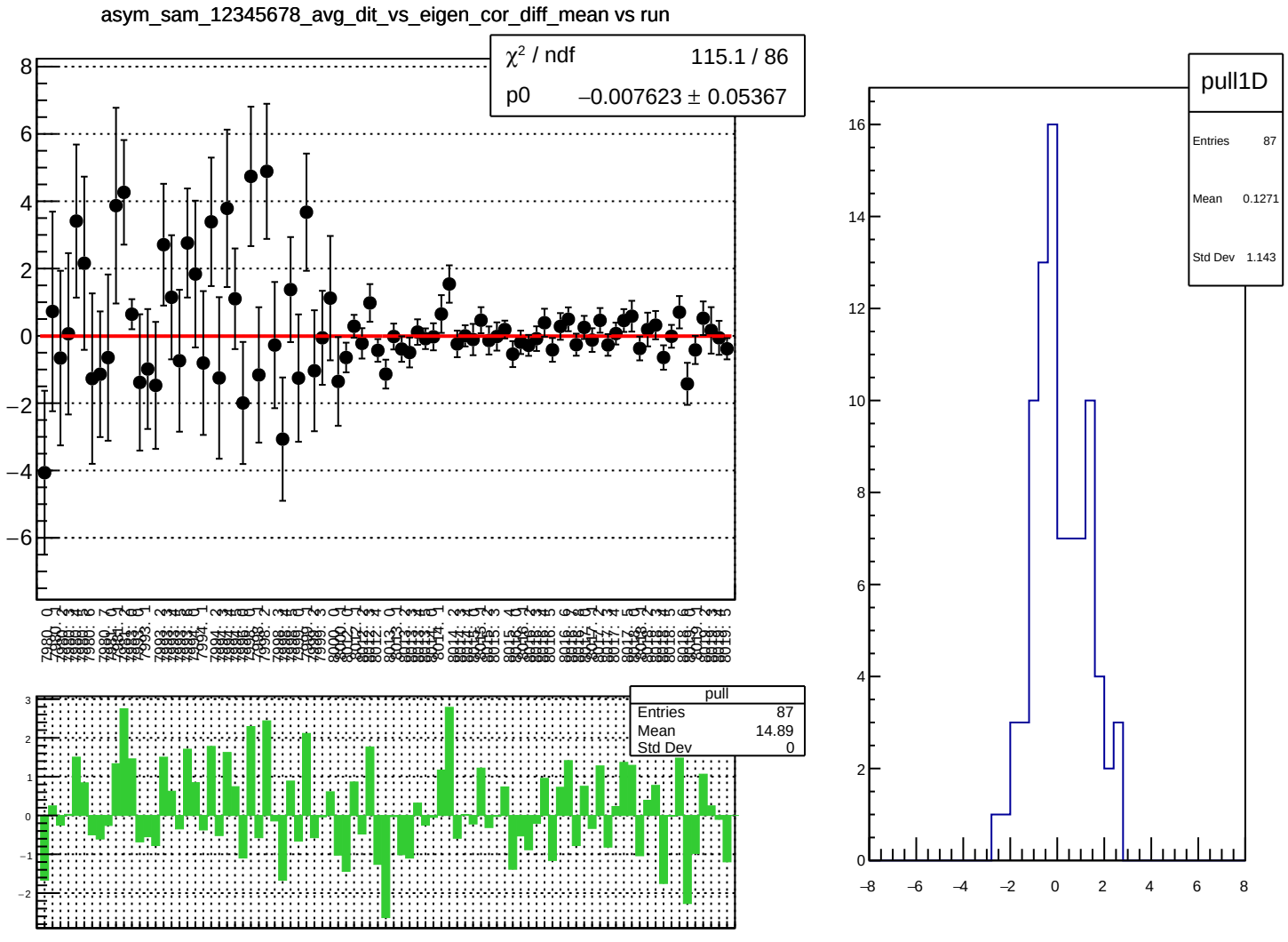

asym_sam_12345678_avg_rms vs run
χ² / ndf 4.929e+04 / 86
p0 1240 ± 0.9475
2000
1800
1600
1400
1200
1000

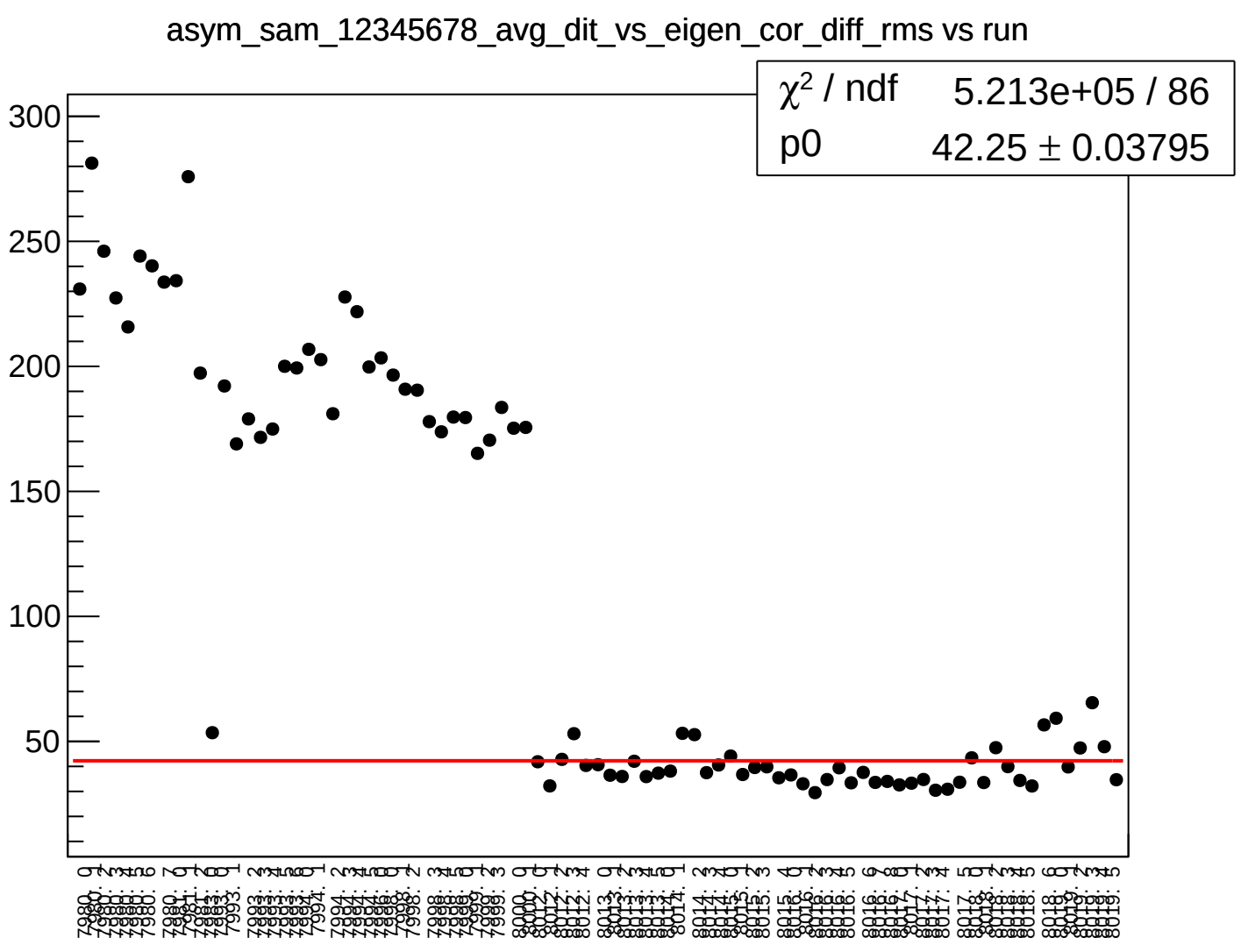

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 86
p0 −9.882e−14 ± 1.191e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 87
Mean −19.38
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.04775
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

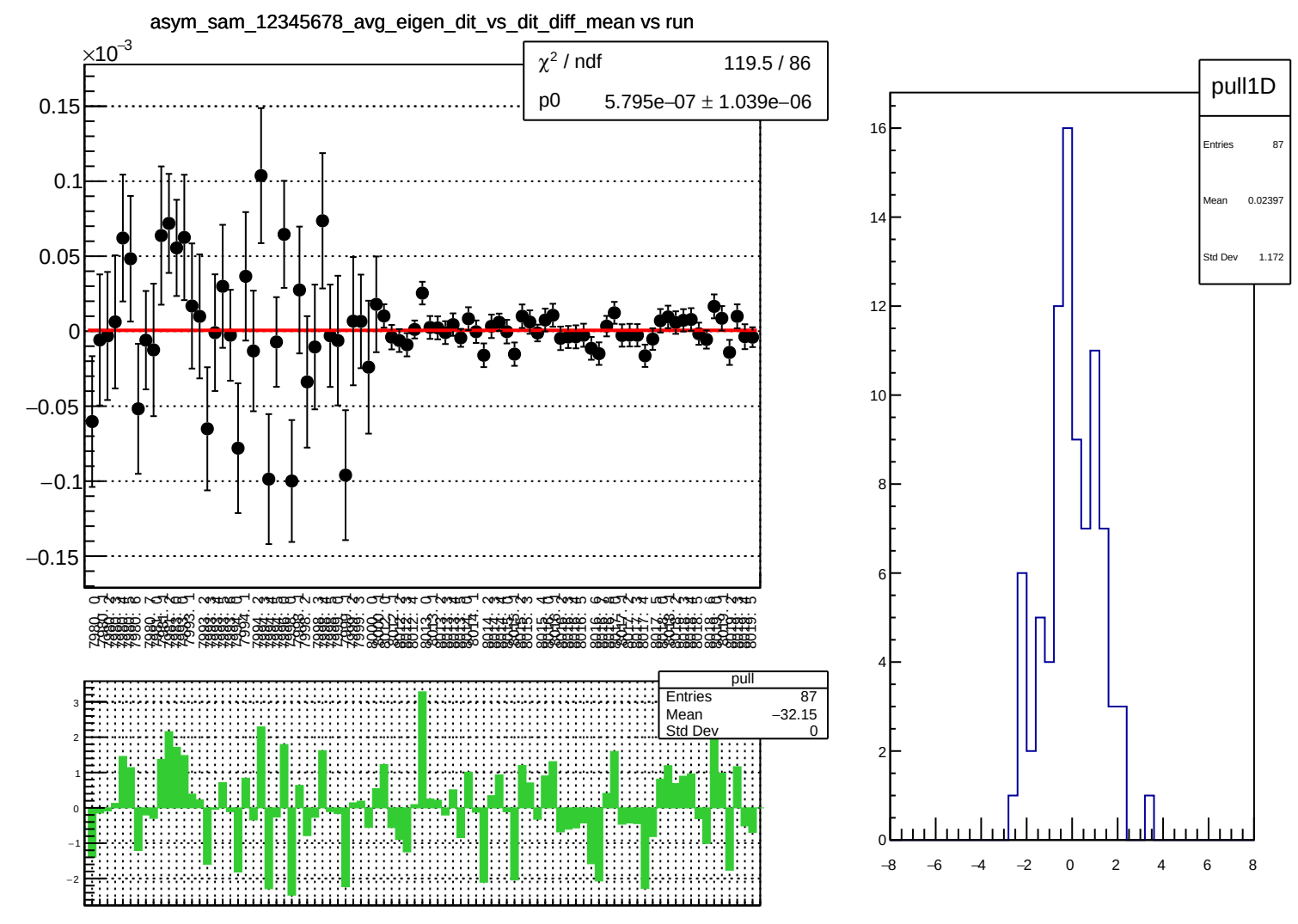

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.367e+06 / 86
p0 5.282e−11 ± 8.418e−14
0.1
0.08
0.06
0.04
0.02
0

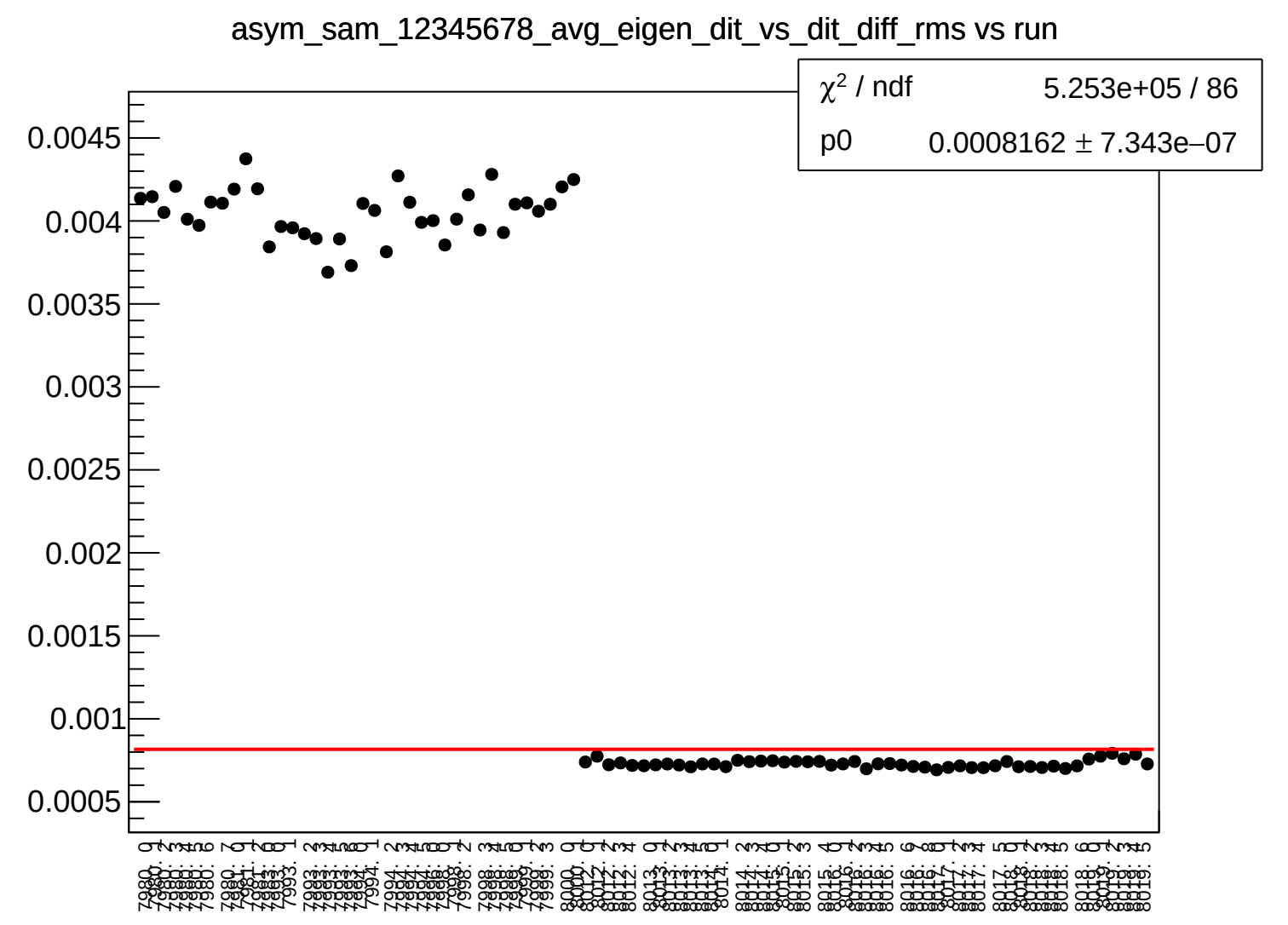

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 115.1 / 86
p0 −0.007623 ± 0.05367
pull
Entries 87
Mean 14.89
Std Dev 0
pull1D
Entries 87
Mean 0.1271
Std Dev 1.143

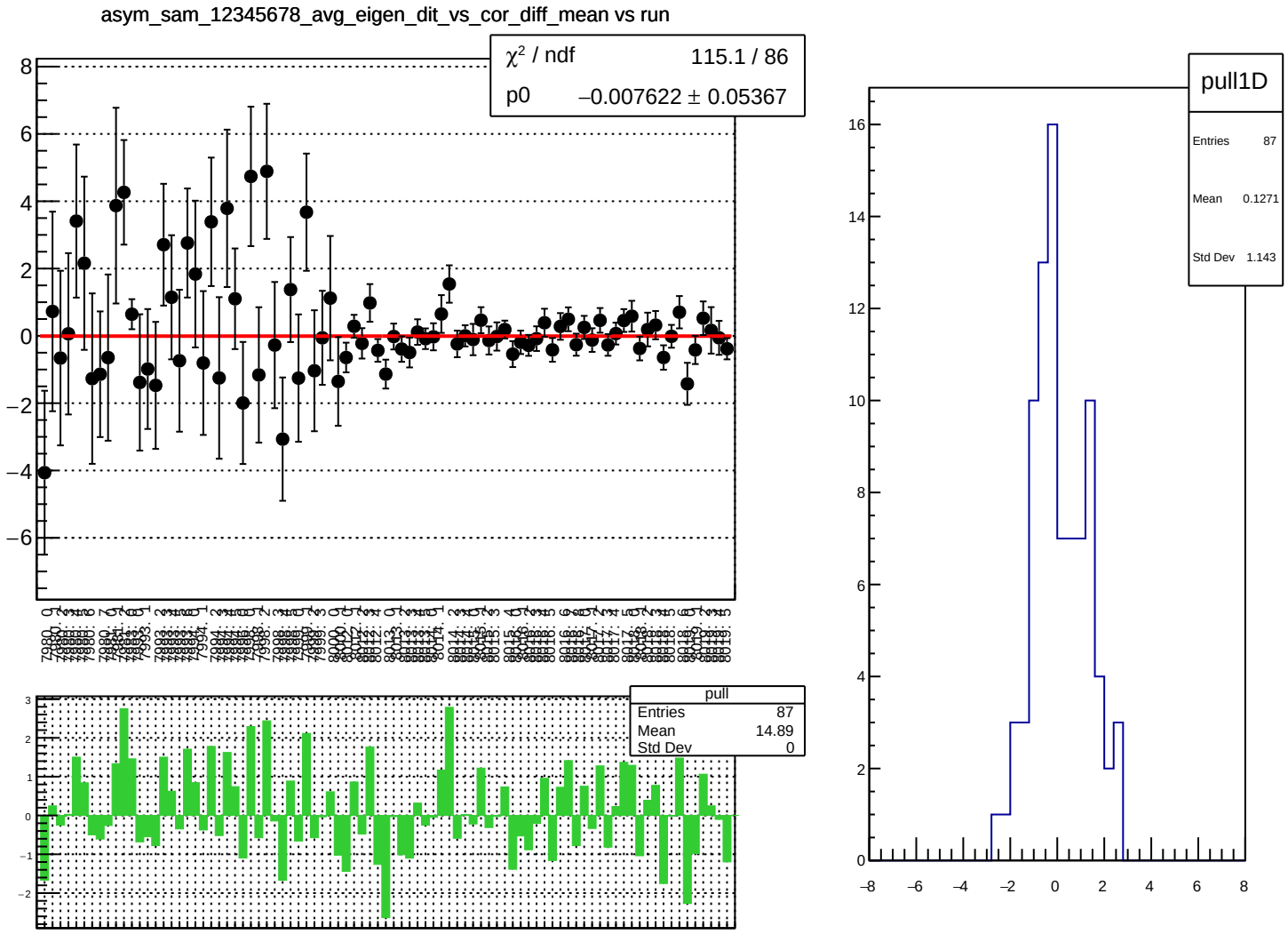

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.213e+05 / 86
p0 42.25 ± 0.03795
300
250
200
150
100
50

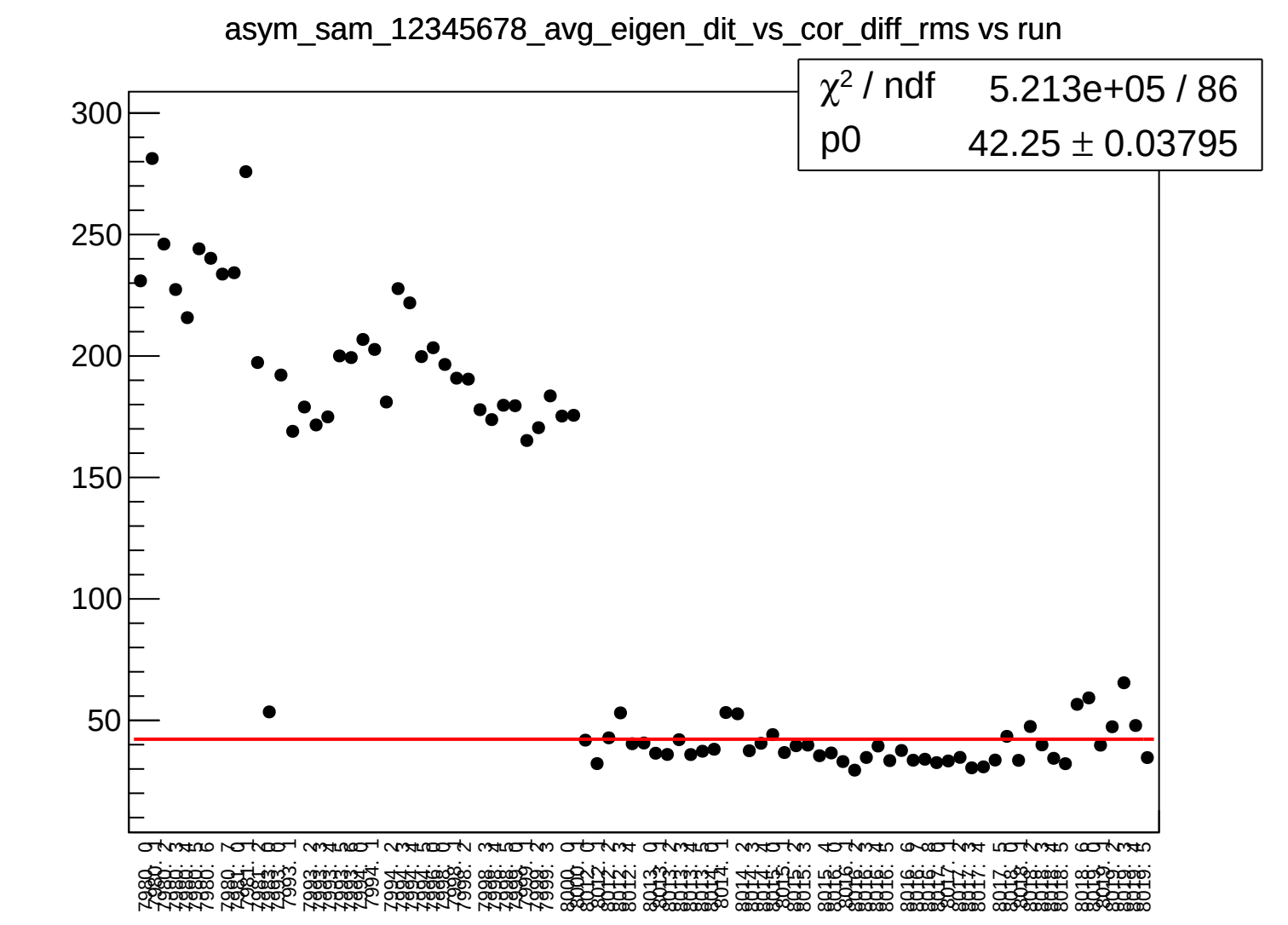

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.1 / 86
p0 −0.007623 ± 0.05367
pull
Entries 87
Mean 14.89
Std Dev 0
pull1D
Entries 87
Mean 0.1271
Std Dev 1.143

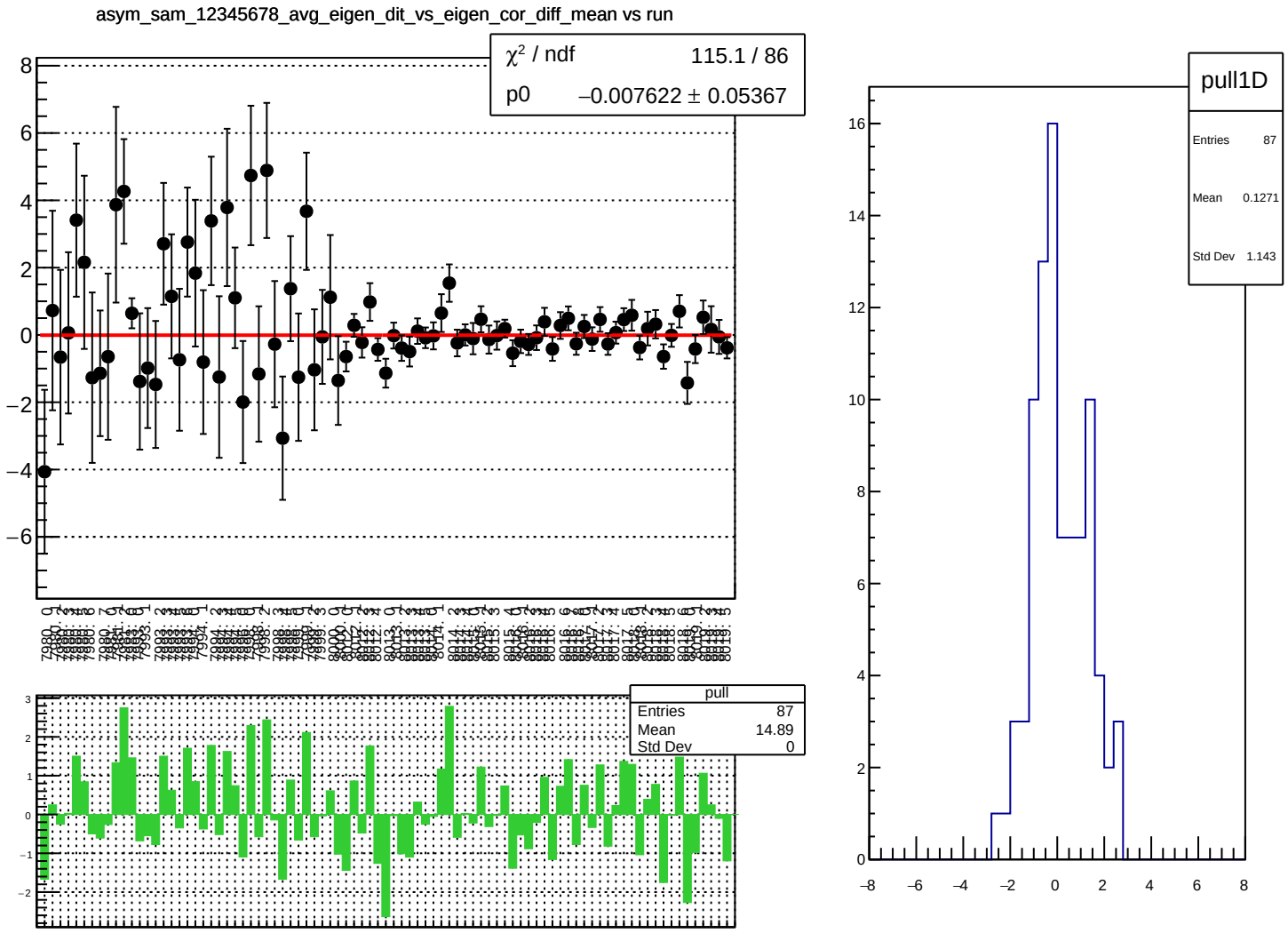

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.213e+05 / 86
p0 42.25 ± 0.03795
300
250
200
150
100
50

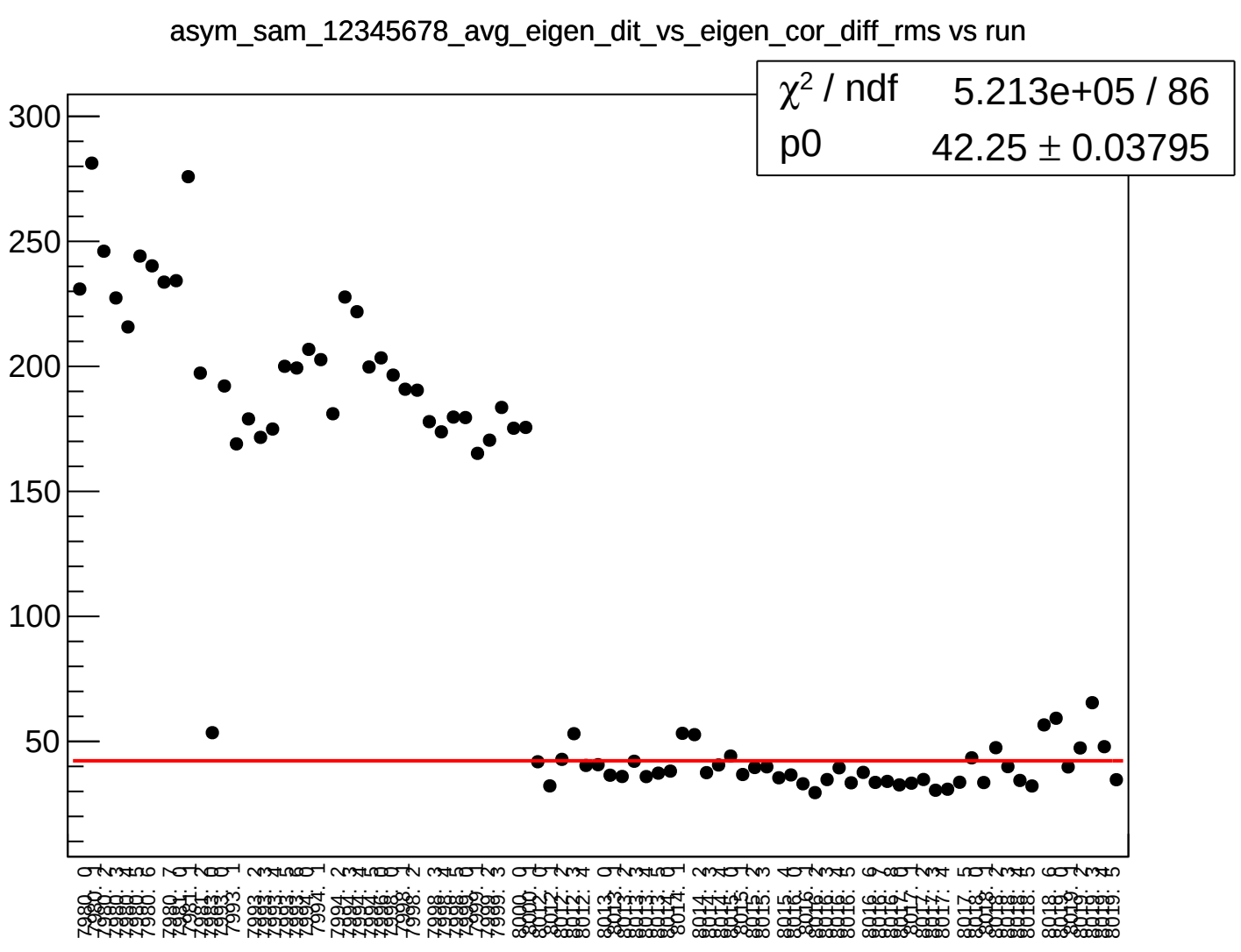

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 119.5 / 86
p0 5.795e−07 ± 1.039e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean −32.15
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.02397
Std Dev 1.172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

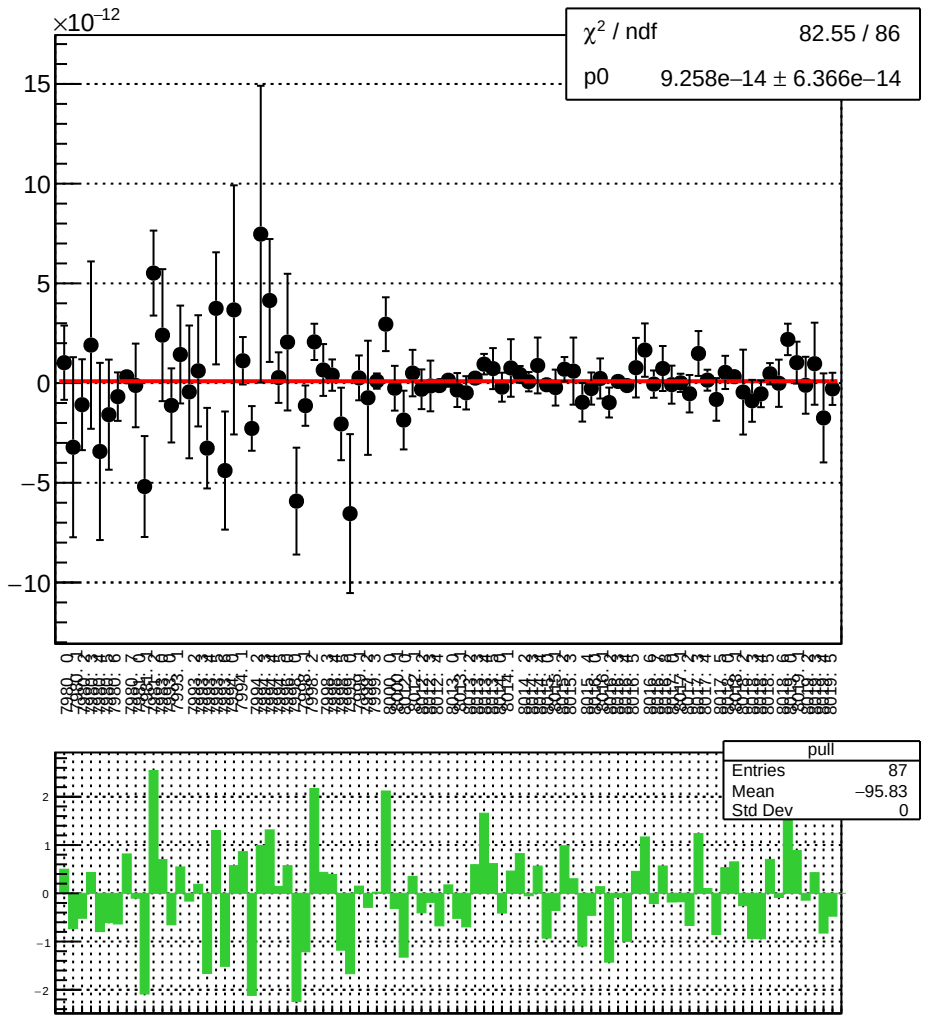

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.253e+05 / 86
p0 0.0008162 ± 7.343e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

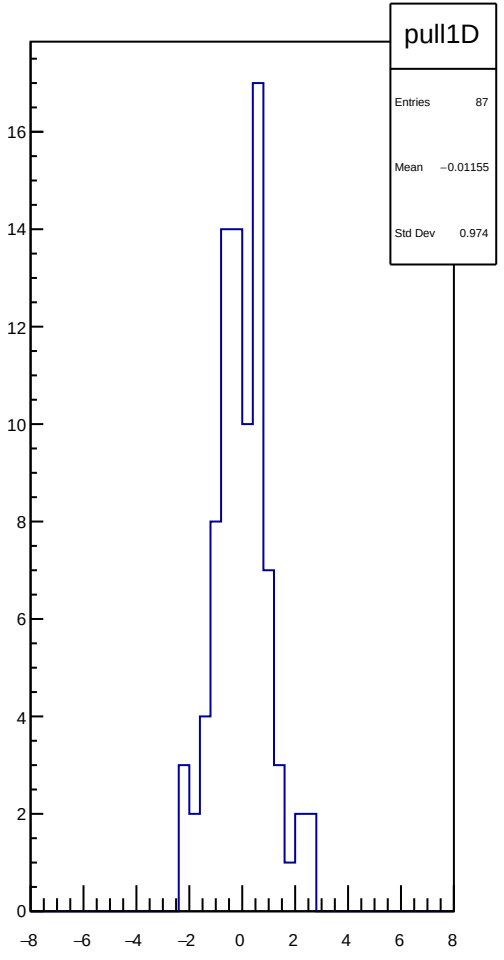

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.1 / 86
p0 −0.007622 ± 0.05367
pull
Entries 87
Mean 14.89
Std Dev 0
pull1D
Entries 87
Mean 0.1271
Std Dev 1.143

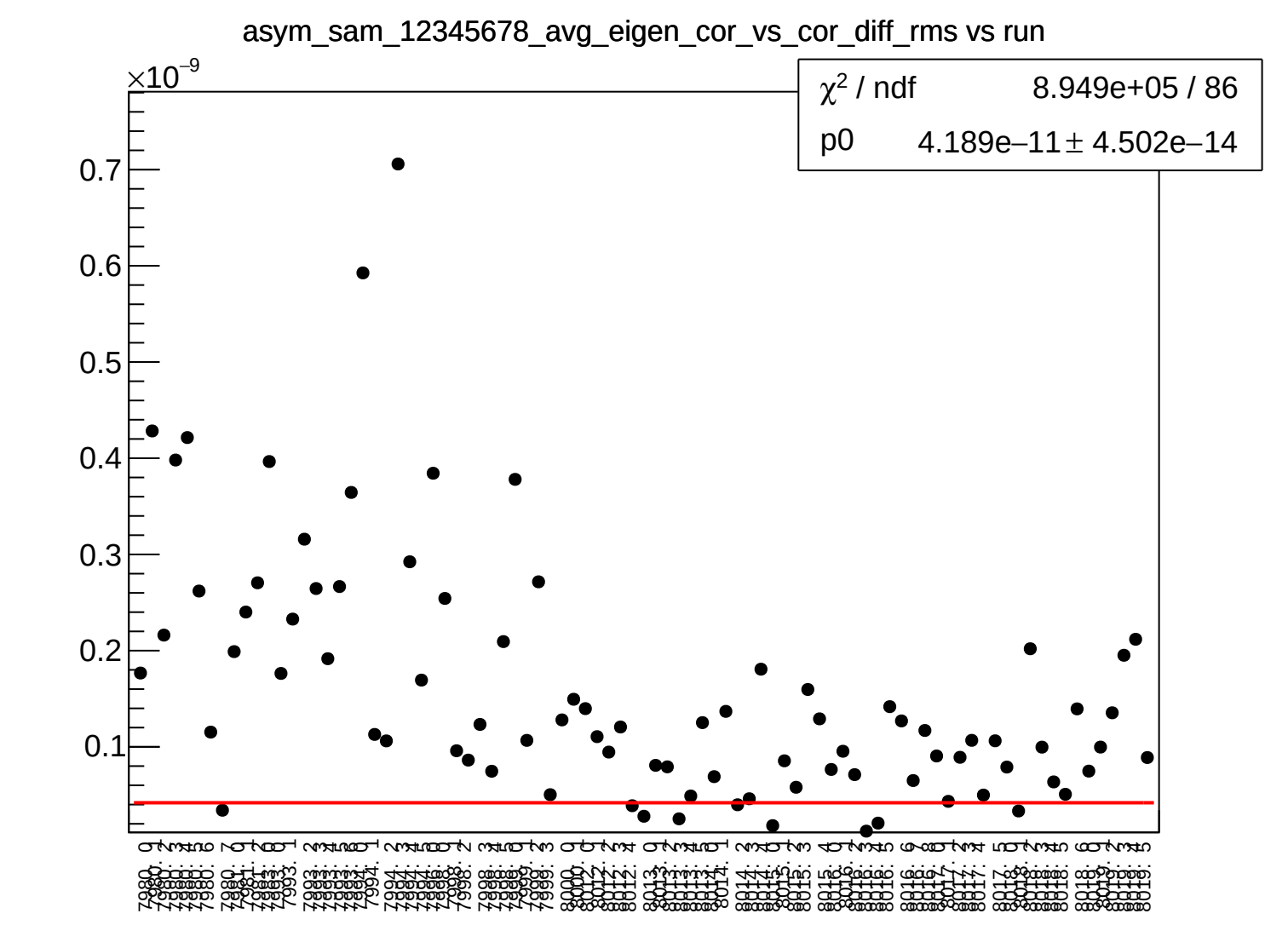

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.213e+05 / 86
p0 42.25 ± 0.03795
300
250
200
150
100
50

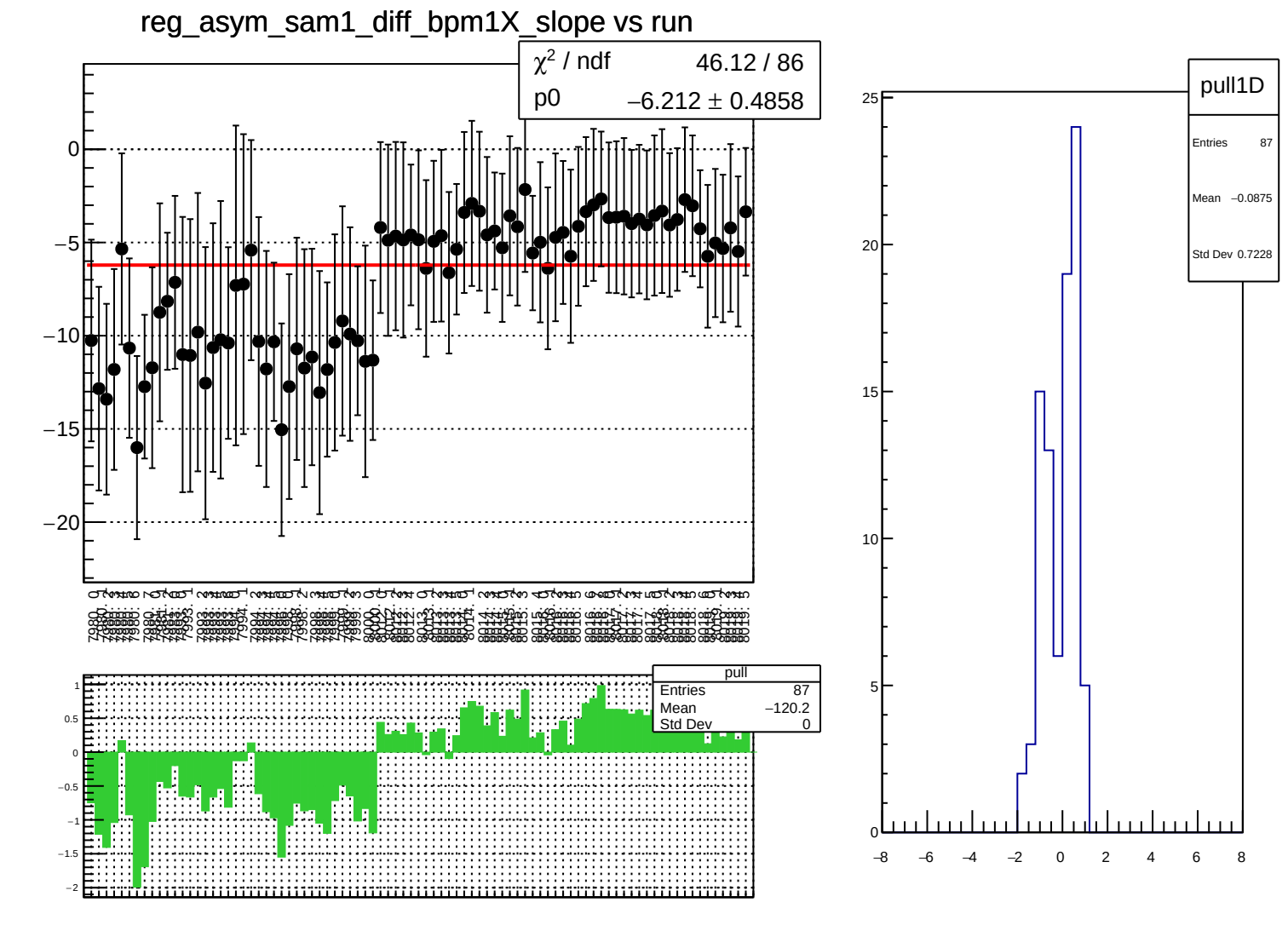

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.1 / 86
p0 −0.007622 ± 0.05367
pull
Entries 87
Mean 14.89
Std Dev 0
pull1D
Entries 87
Mean 0.1271
Std Dev 1.143

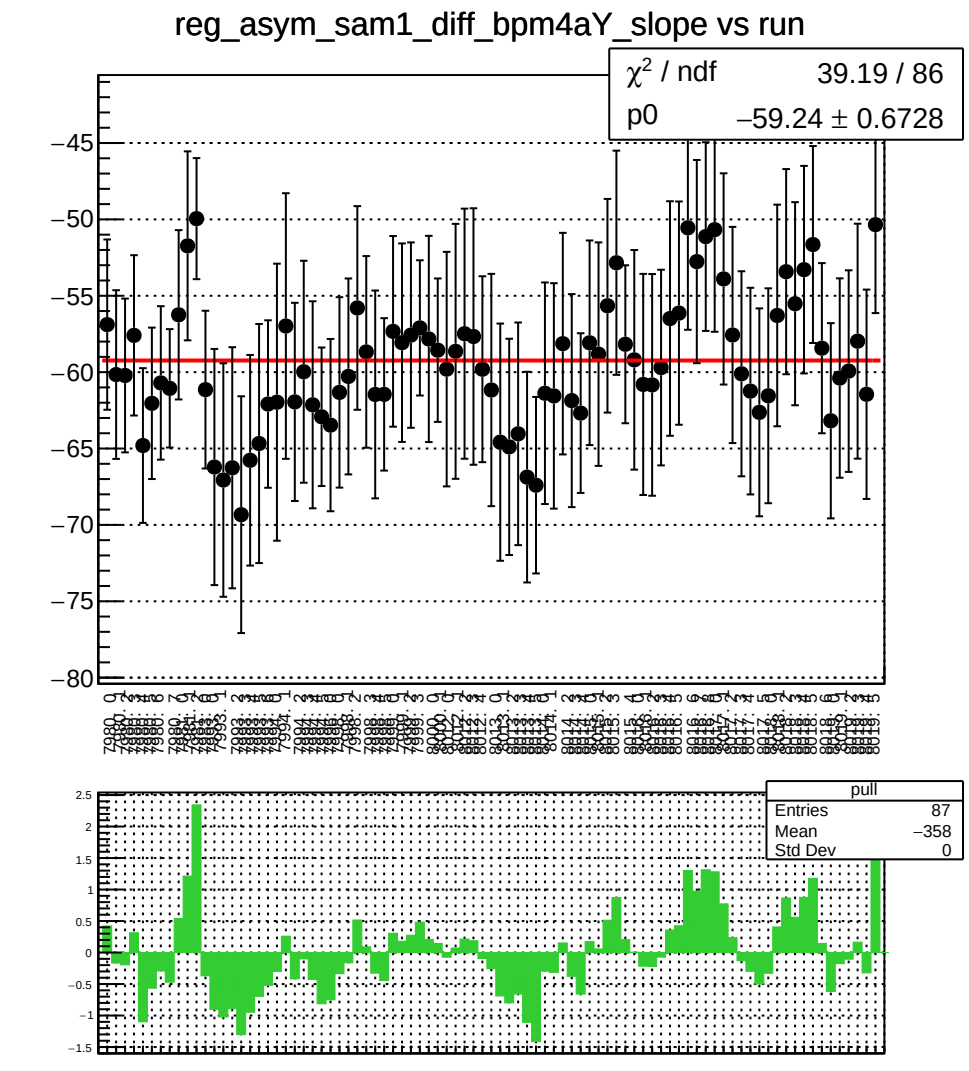

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.213e+05 / 86
p0 42.25 ± 0.03795
300
250
200
150
100
50

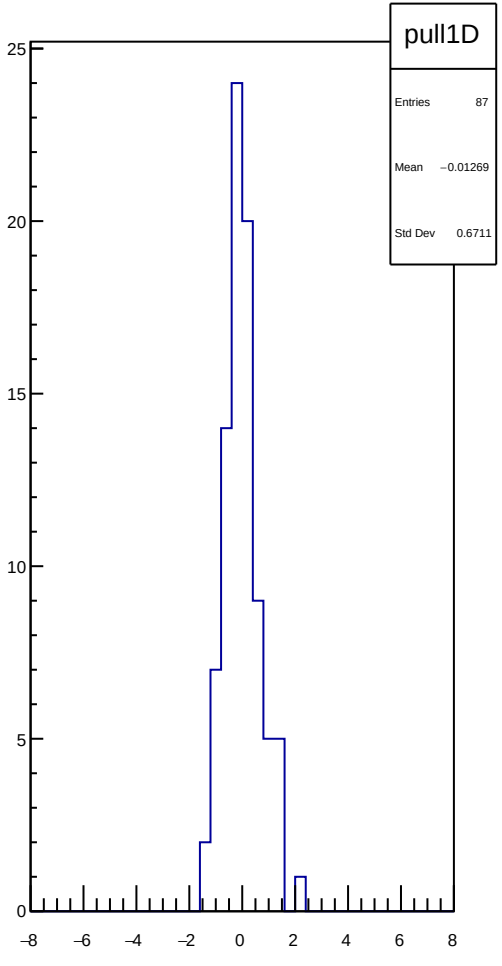

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.55 / 86
p0 9.258e−14 ± 6.366e−14
15
10
5
0
−5
−10
pull
Entries 87
Mean −95.83
Std Dev 0
2
1
0
−1
−2

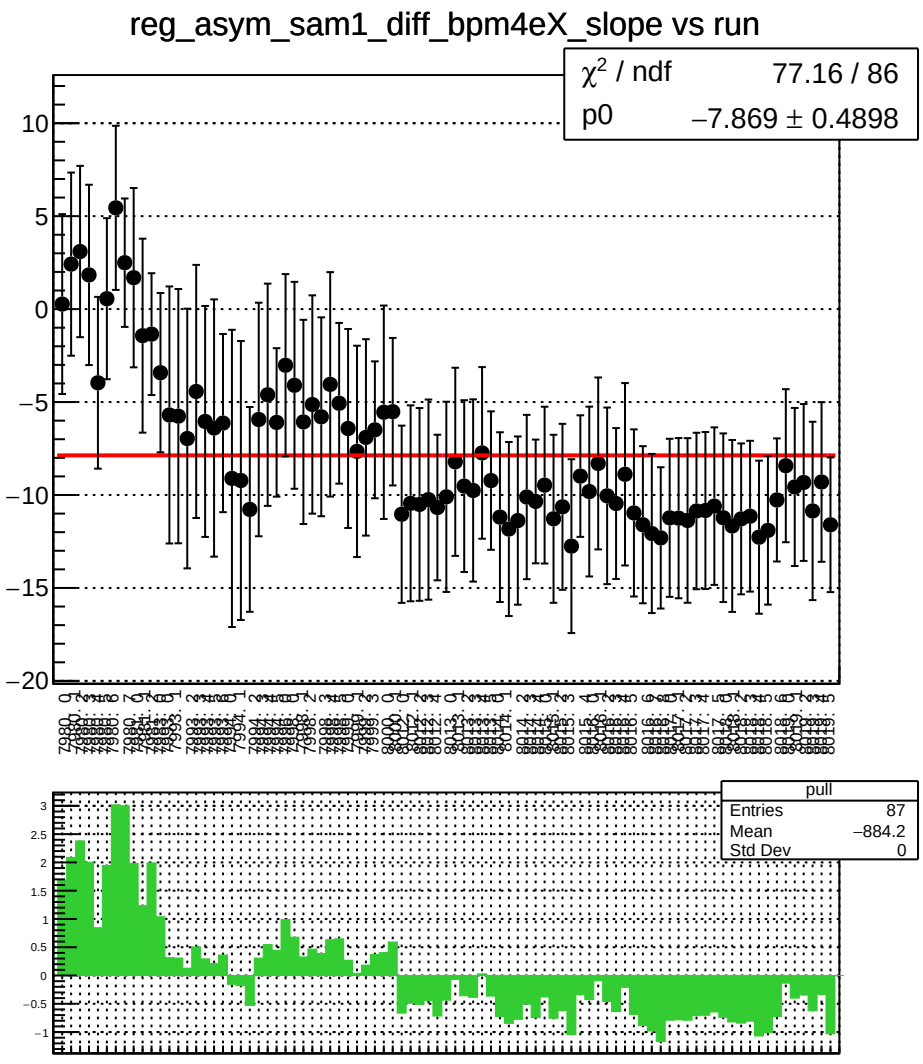

pull1D
Entries 87
Mean −0.01155
Std Dev 0.974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

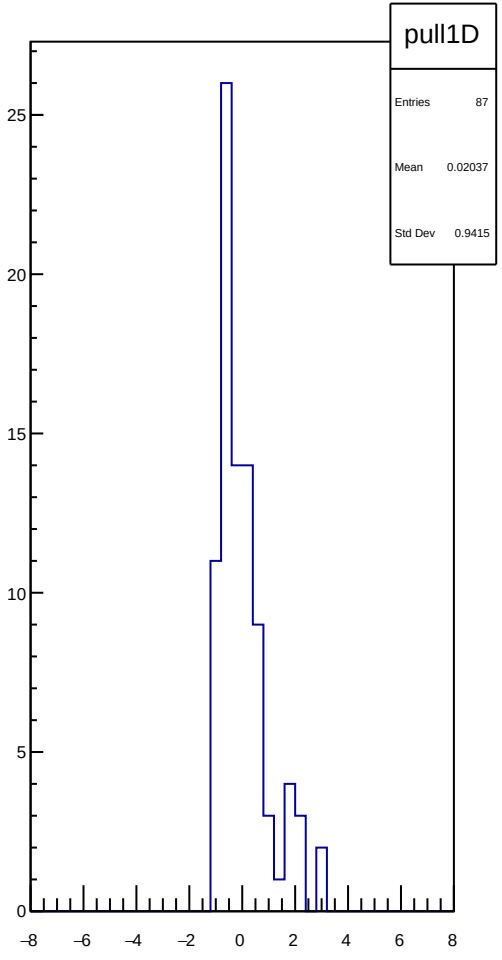

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.949e+05 / 86
p0 4.189e−11 ± 4.502e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

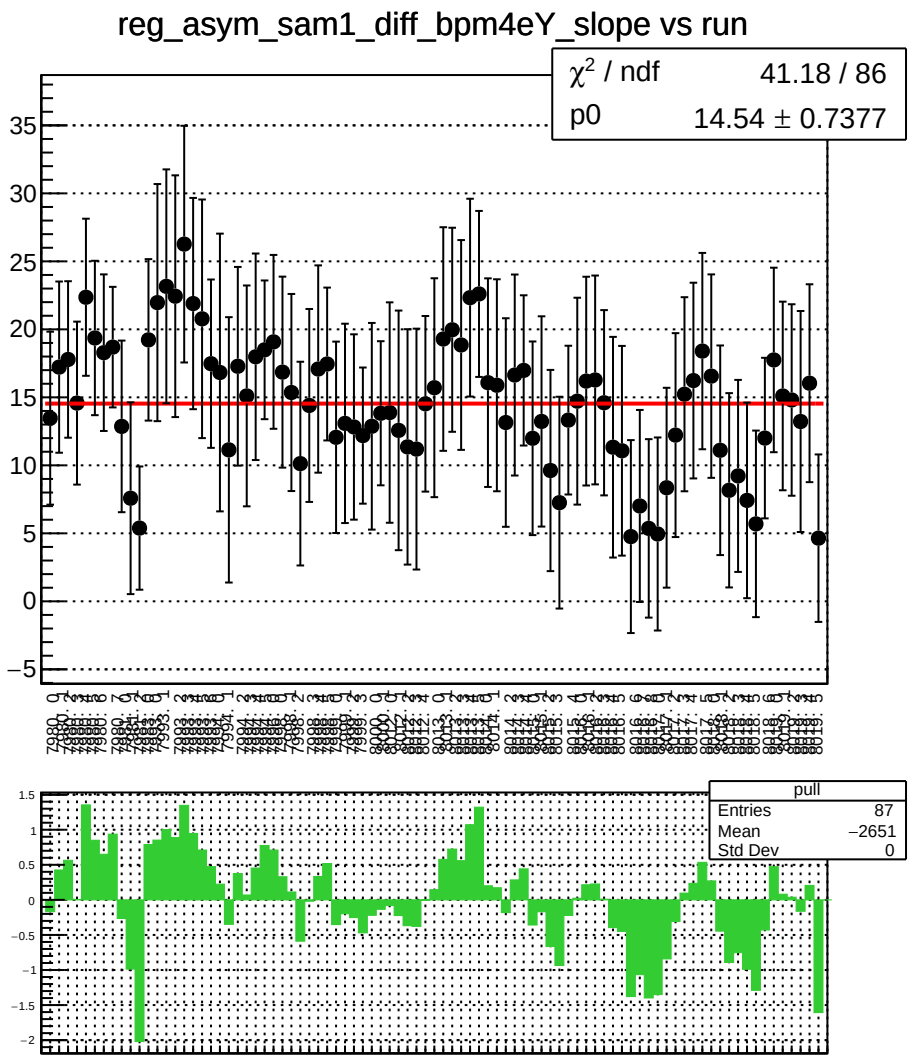

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 46.12 / 86
p0 −6.212 ± 0.4858
pull
Entries 87
Mean −120.2
Std Dev 0
pull1D
Entries 87
Mean −0.0875
Std Dev 0.7228

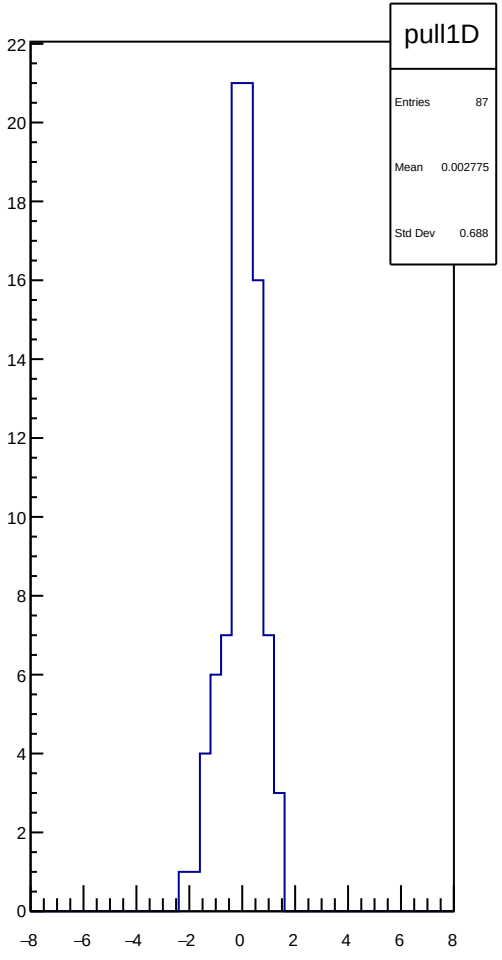

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 39.19 / 86
p0 −59.24 ± 0.6728
pull
Entries 87
Mean −358
Std Dev 0

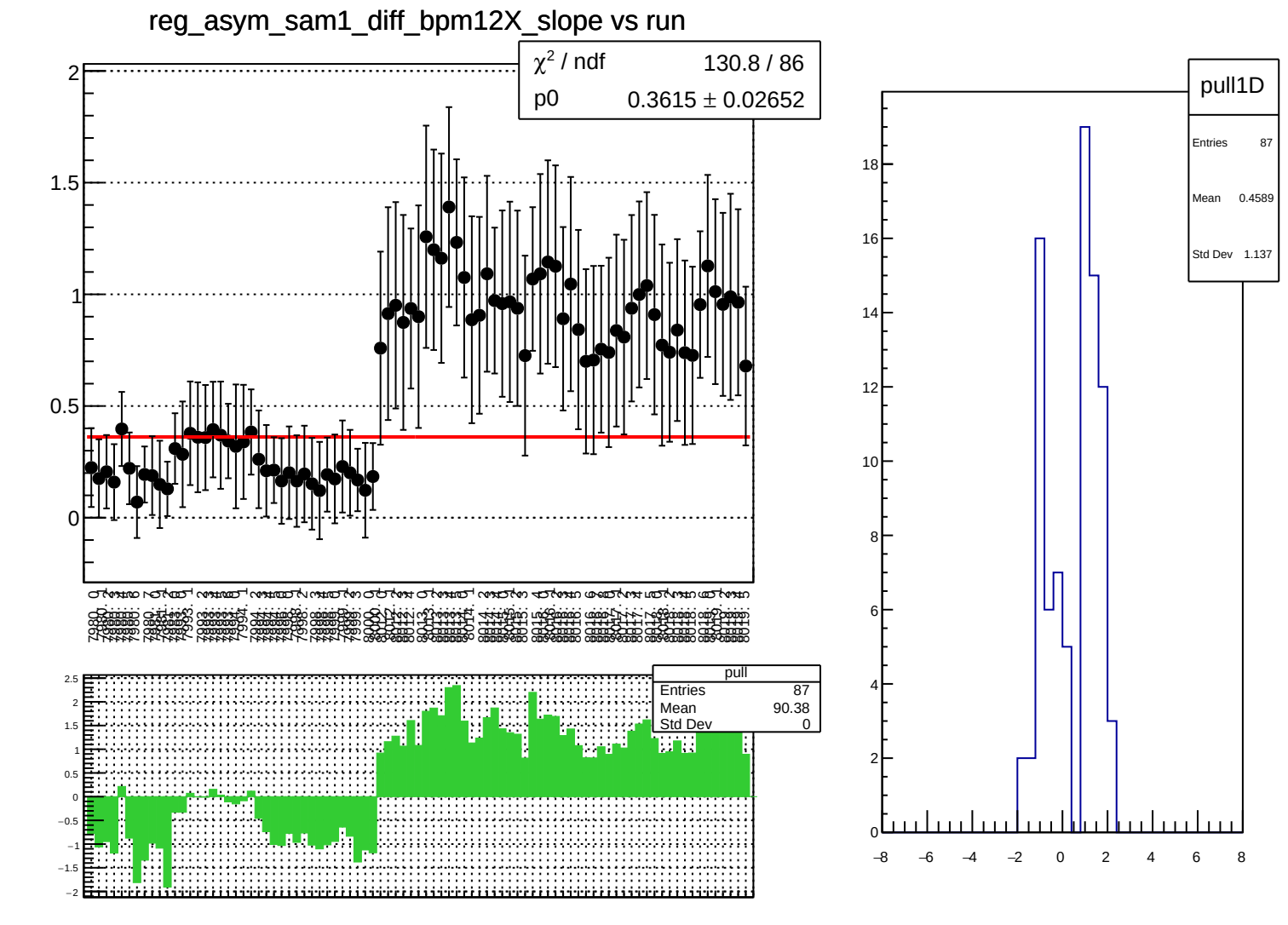

pull1D
Entries 87
Mean −0.01269
Std Dev 0.6711

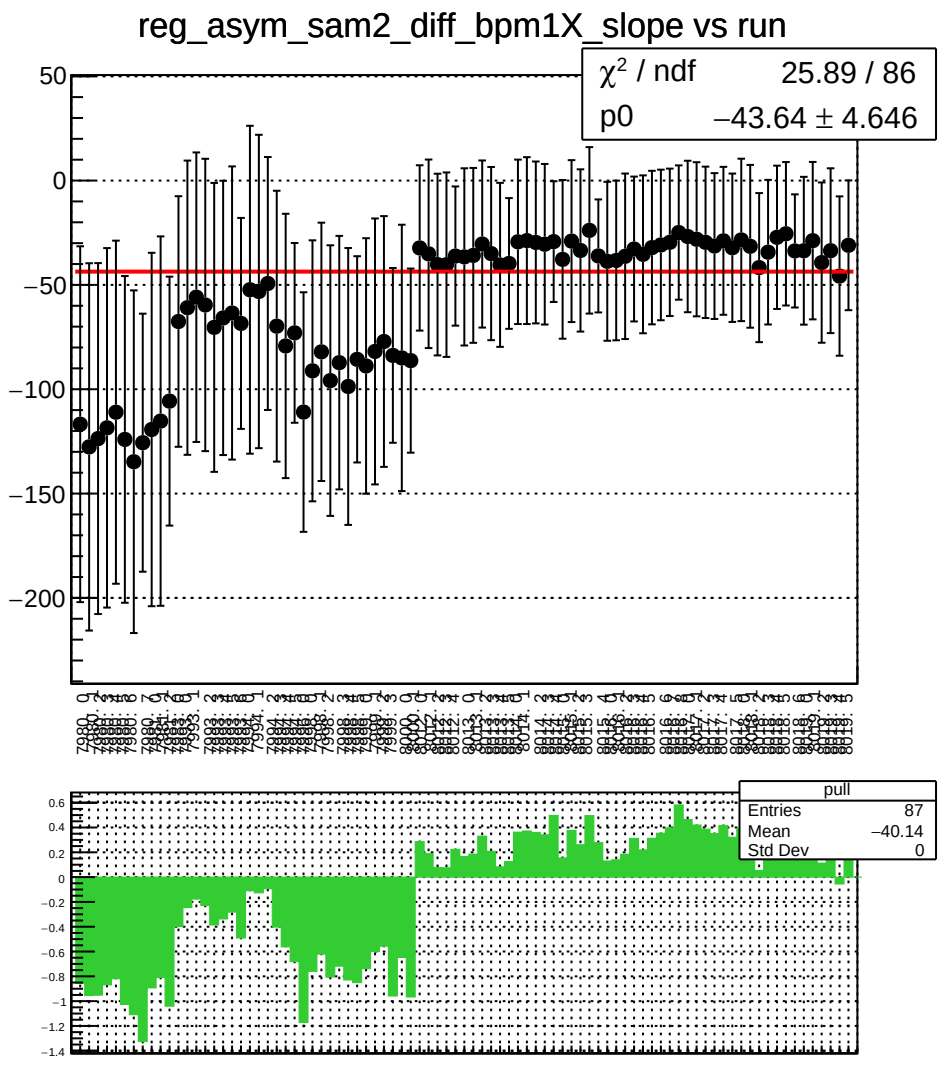

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 77.16 / 86
p0 −7.869 ± 0.4898
pull
Entries 87
Mean −884.2
Std Dev 0

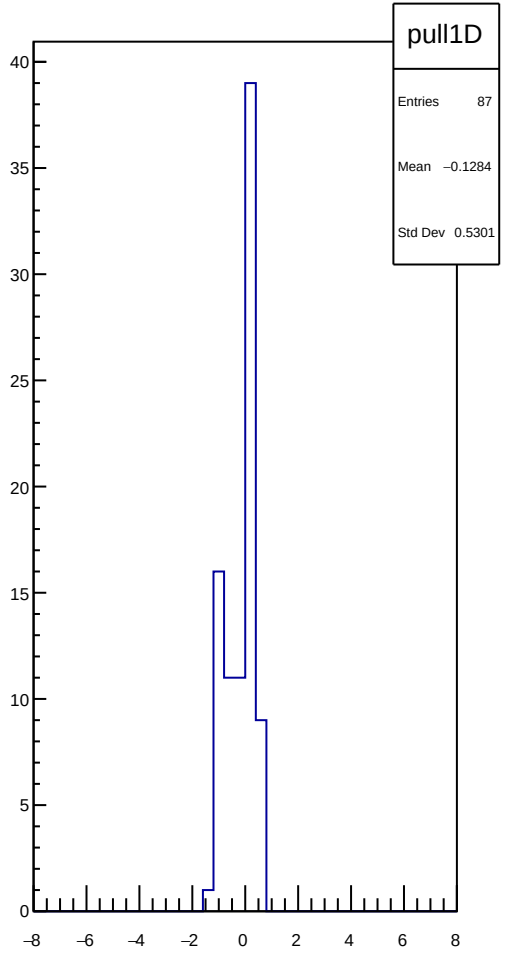

pull1D
Entries 87
Mean 0.02037
Std Dev 0.9415

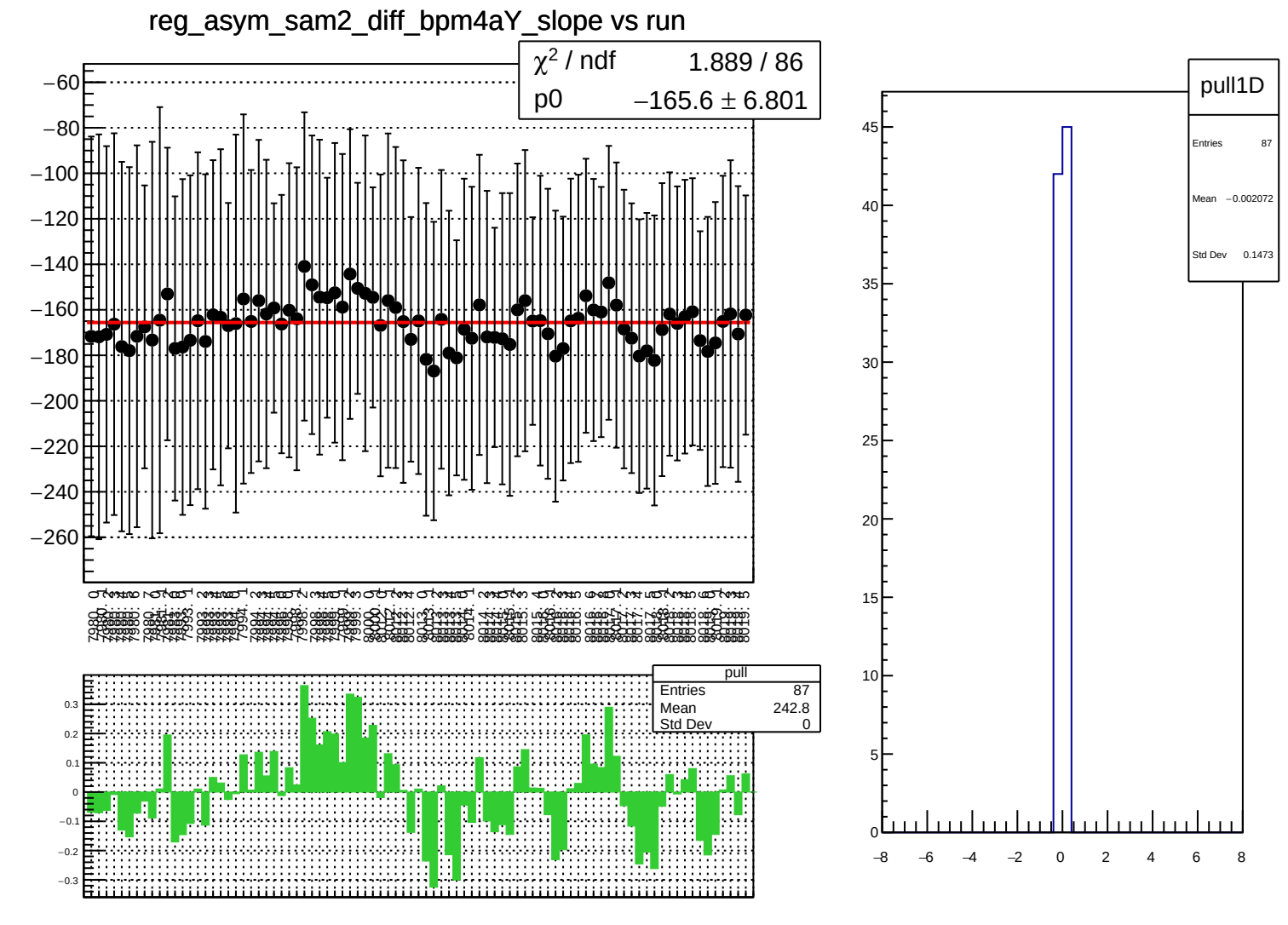

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 41.18 / 86
p0 14.54 ± 0.7377
pull
Entries 87
Mean −2651
Std Dev 0

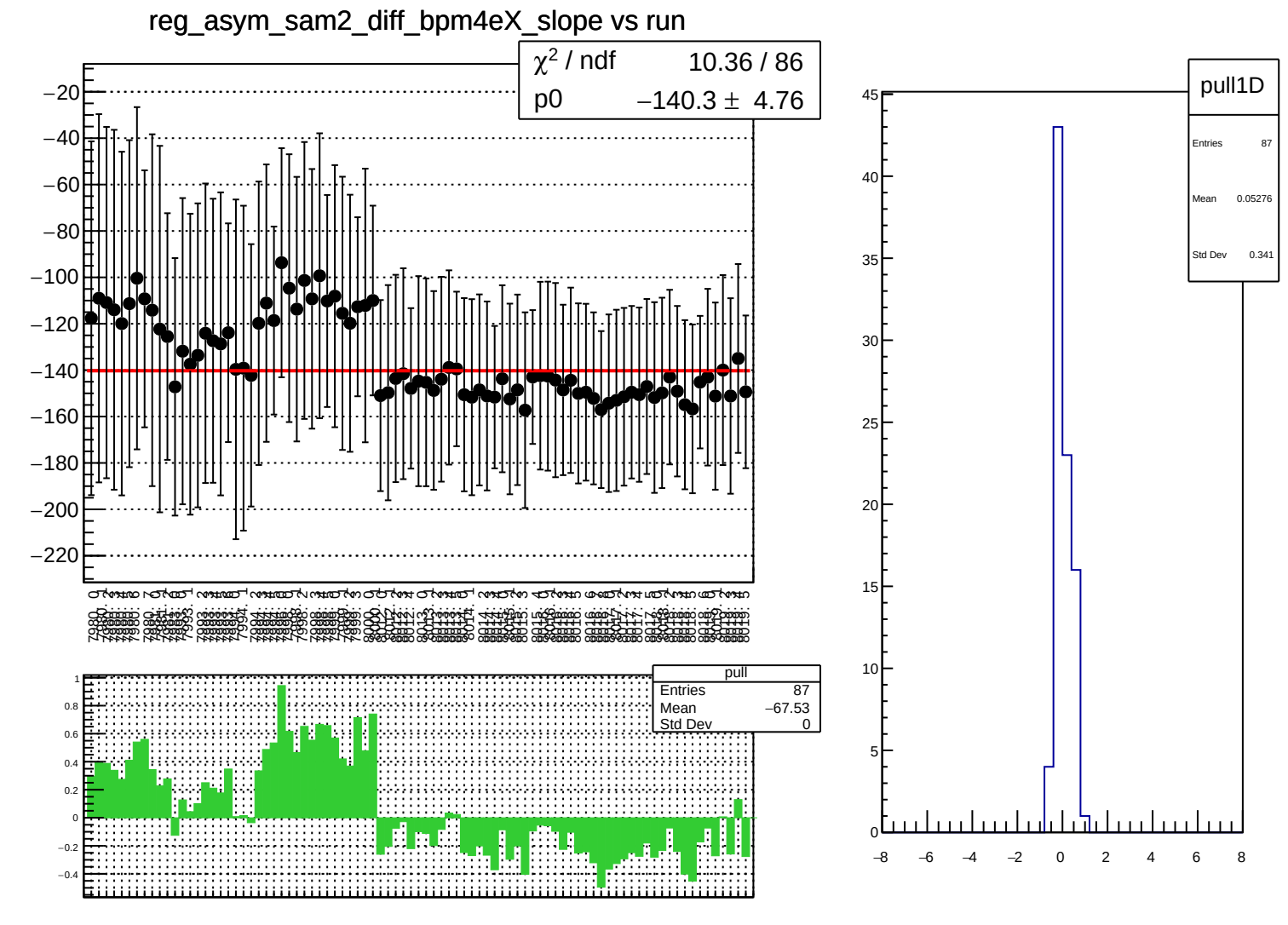

pull1D
Entries 87
Mean 0.002775
Std Dev 0.688

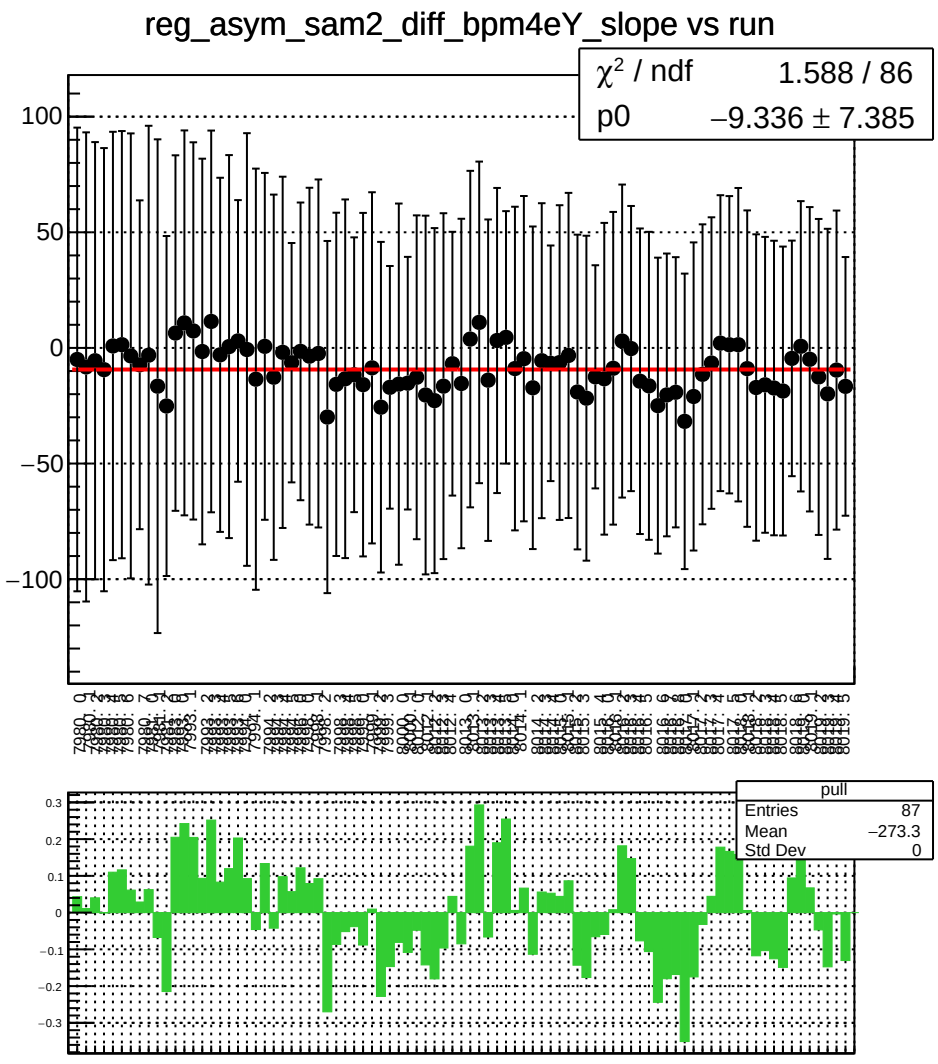

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 130.8 / 86
p0 0.3615 ± 0.02652
pull
Entries 87
Mean 90.38
Std Dev 0
pull1D
Entries 87
Mean 0.4589
Std Dev 1.137

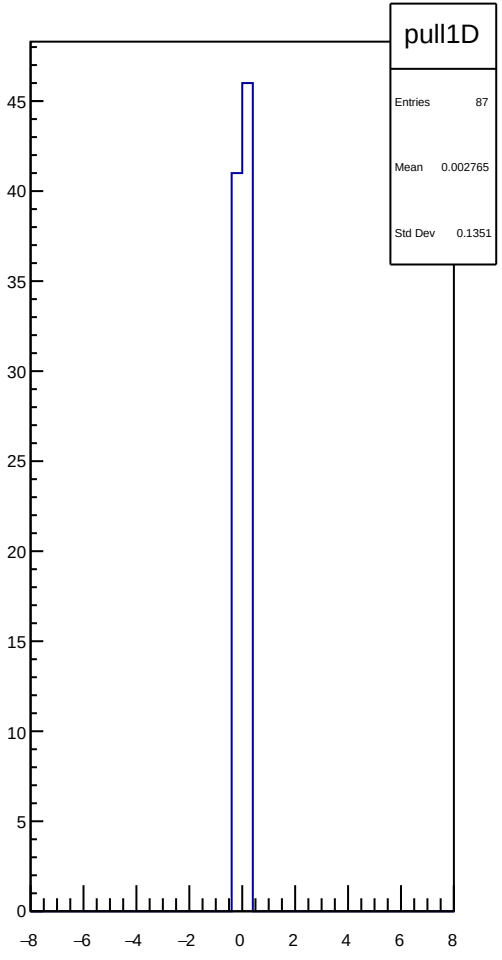

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 25.89 / 86
p0 −43.64 ± 4.646
pull
Entries 87
Mean −40.14
Std Dev 0

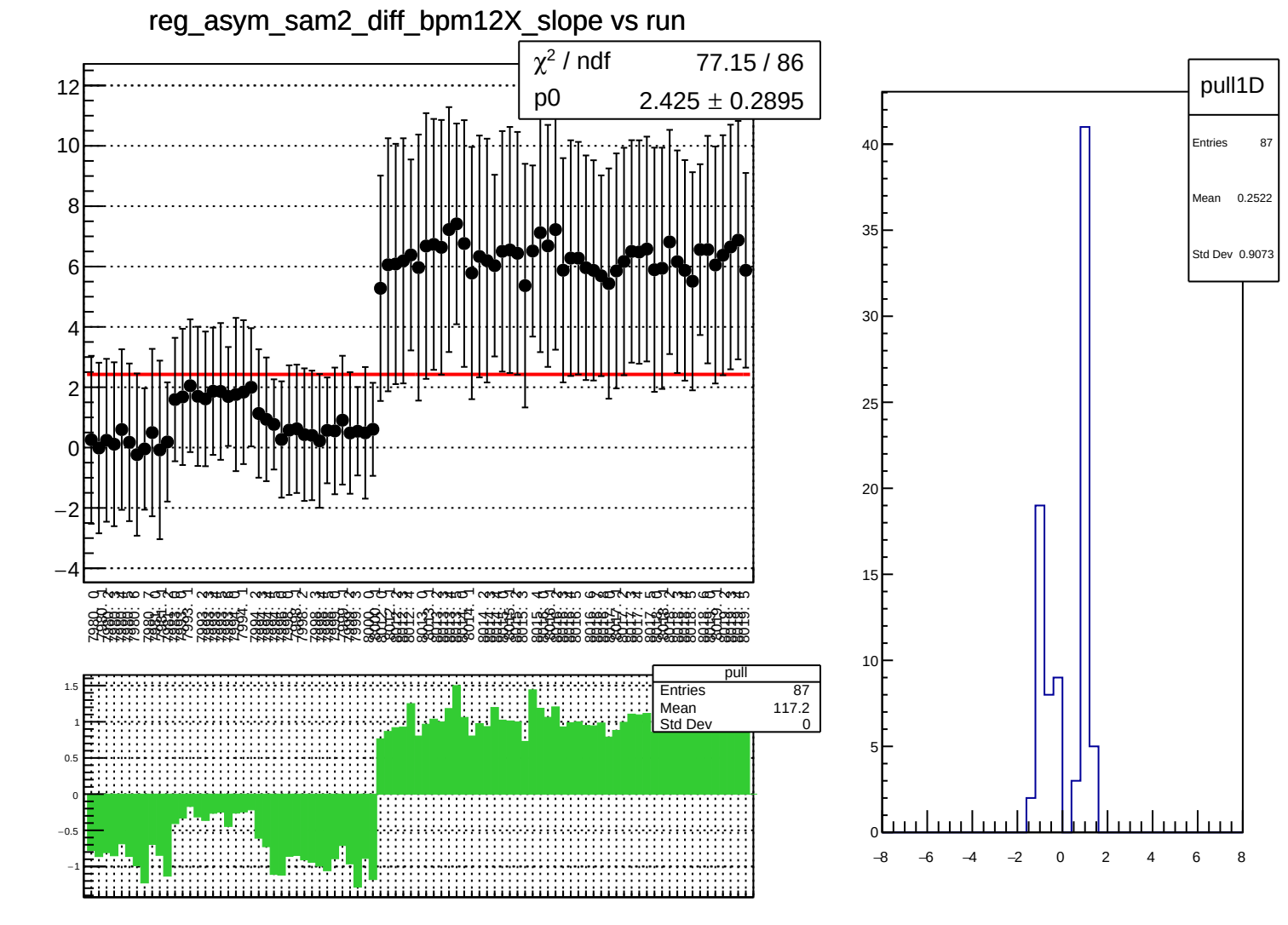

pull1D
Entries 87
Mean −0.1284
Std Dev 0.5301

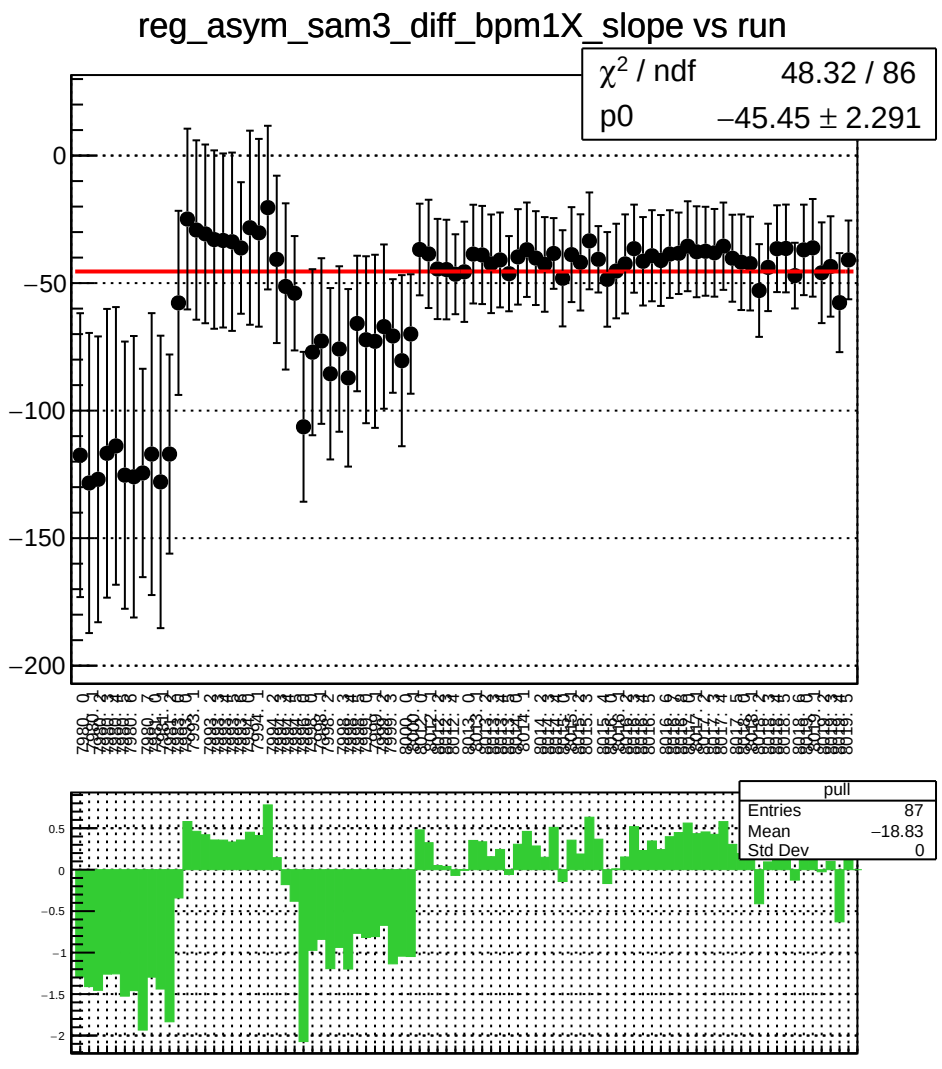

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.889 / 86
p0 −165.6 ± 6.801
pull
Entries 87
Mean 242.8
Std Dev 0
pull1D
Entries 87
Mean −0.002072
Std Dev 0.1473

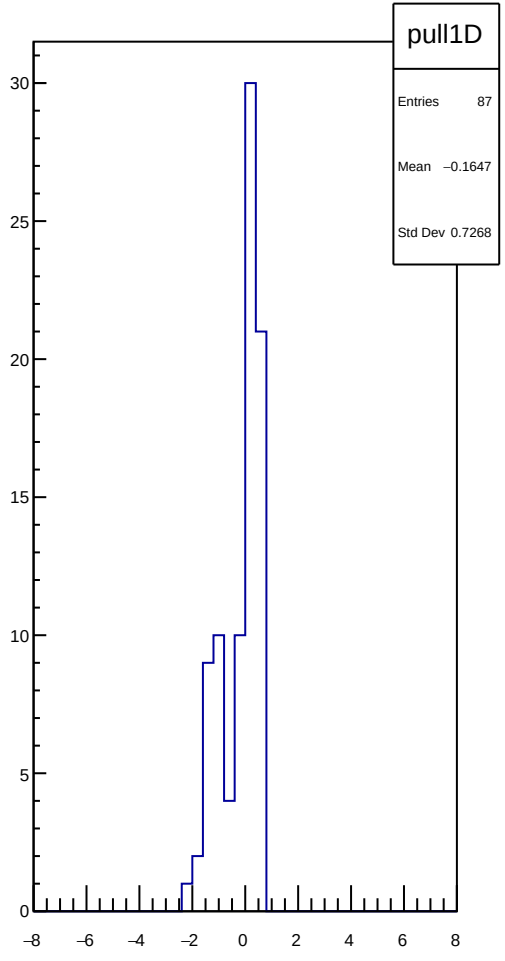

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 10.36 / 86
p0 −140.3 ± 4.76
pull
Entries 87
Mean −67.53
Std Dev 0
pull1D
Entries 87
Mean 0.05276
Std Dev 0.341

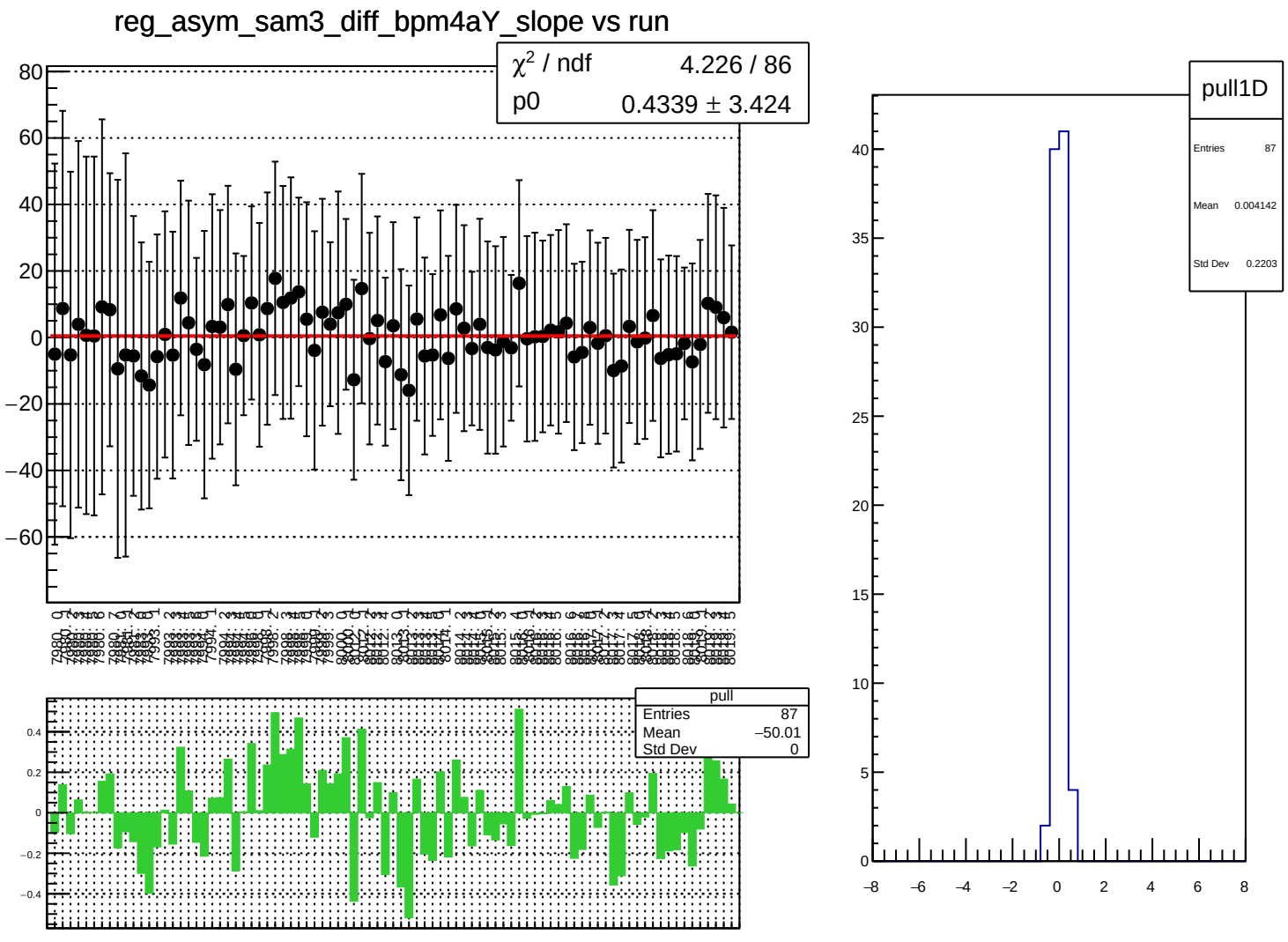

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.588 / 86
p0 −9.336 ± 7.385
pull
Entries 87
Mean −273.3
Std Dev 0

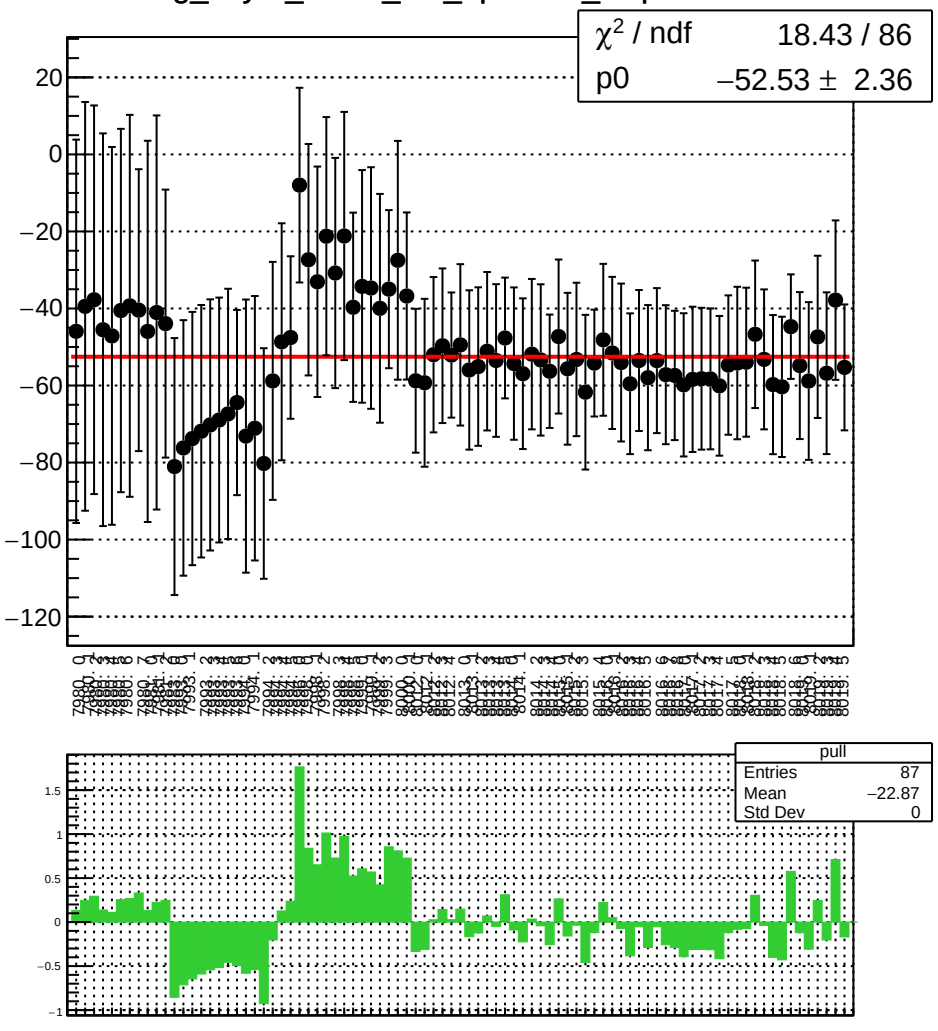

pull1D
Entries 87
Mean 0.002765
Std Dev 0.1351

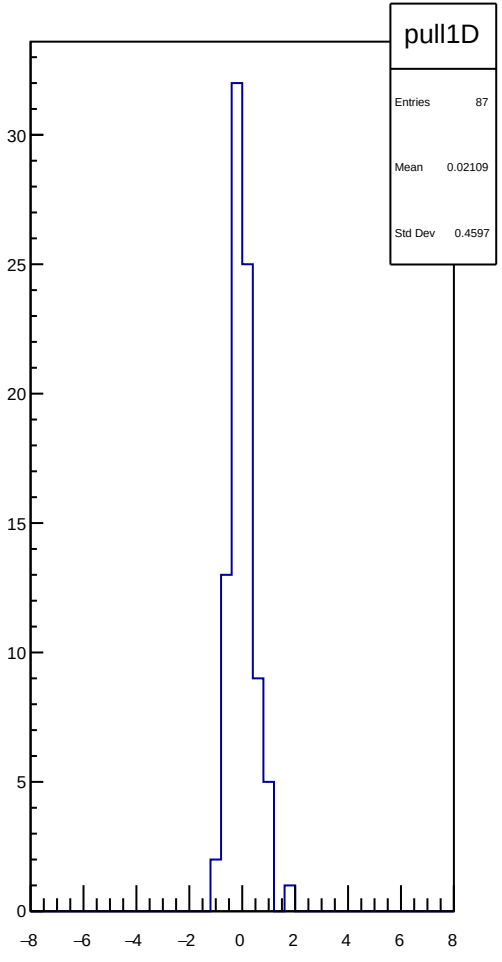

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 77.15 / 86
p0 2.425 ± 0.2895
pull
Entries 87
Mean 117.2
Std Dev 0
pull1D
Entries 87
Mean 0.2522
Std Dev 0.9073

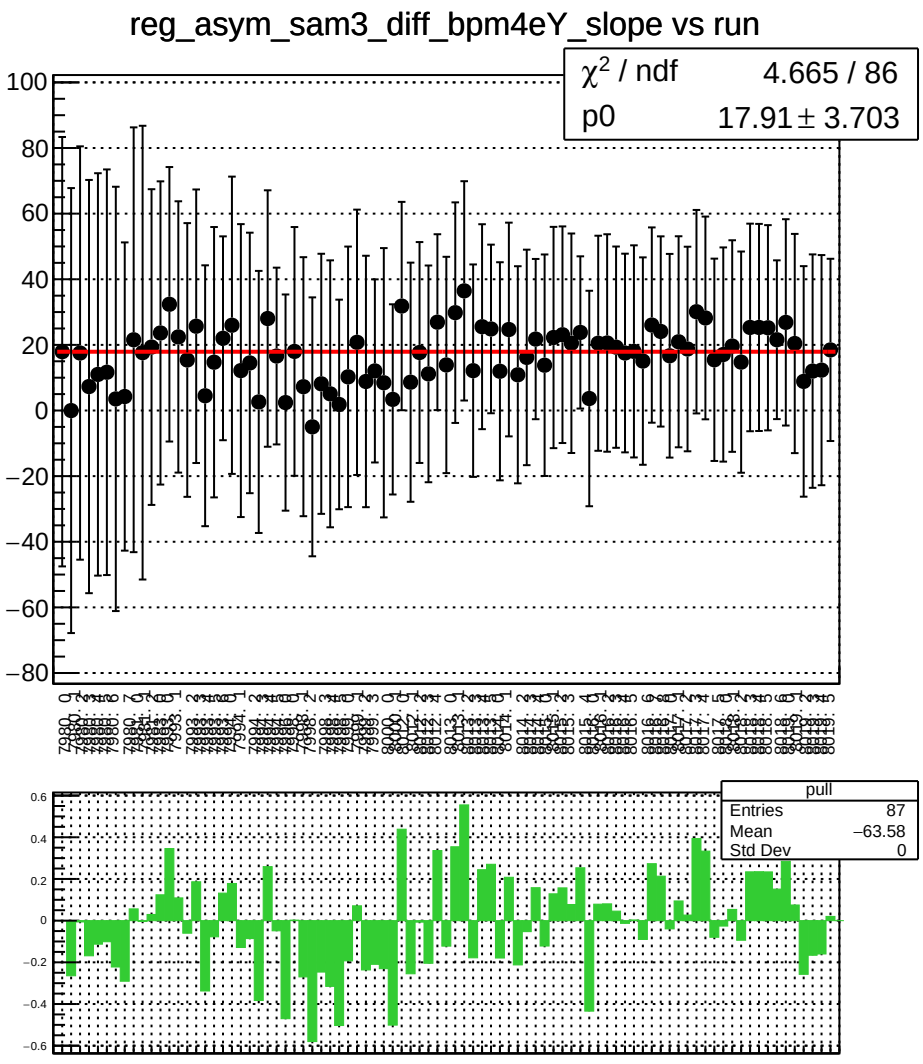

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 48.32 / 86
p0 −45.45 ± 2.291
0
−50
−100
−150
−200
pull
Entries 87
Mean −18.83
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2

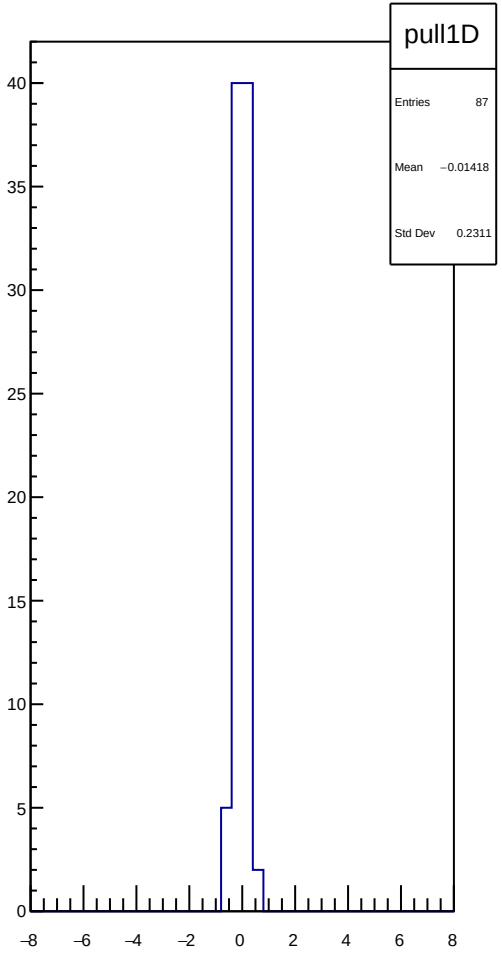

pull1D
Entries 87
Mean −0.1647
Std Dev 0.7268
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

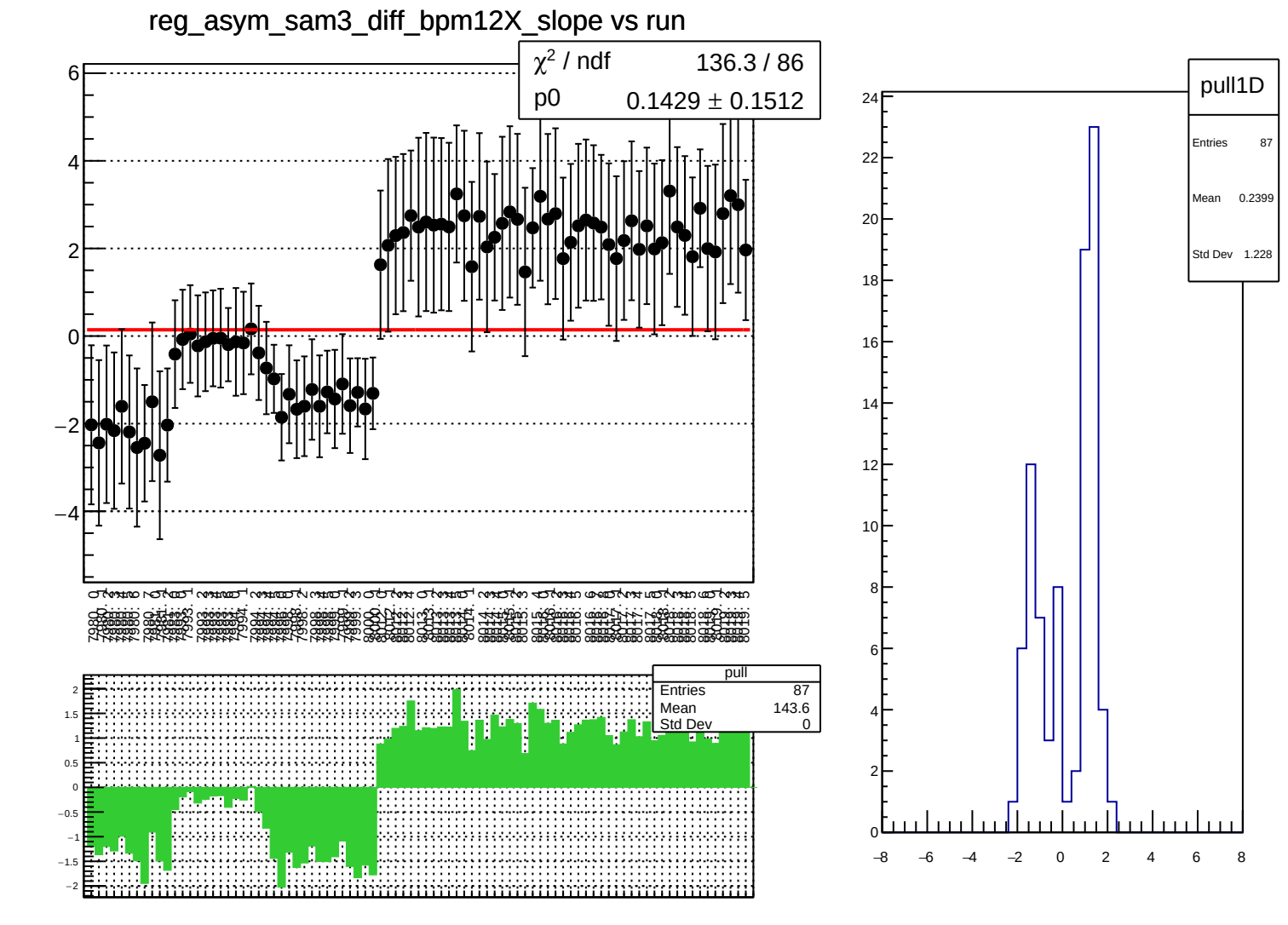

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 4.226 / 86
p0 0.4339 ± 3.424
pull
Entries 87
Mean −50.01
Std Dev 0
pull1D
Entries 87
Mean 0.004142
Std Dev 0.2203

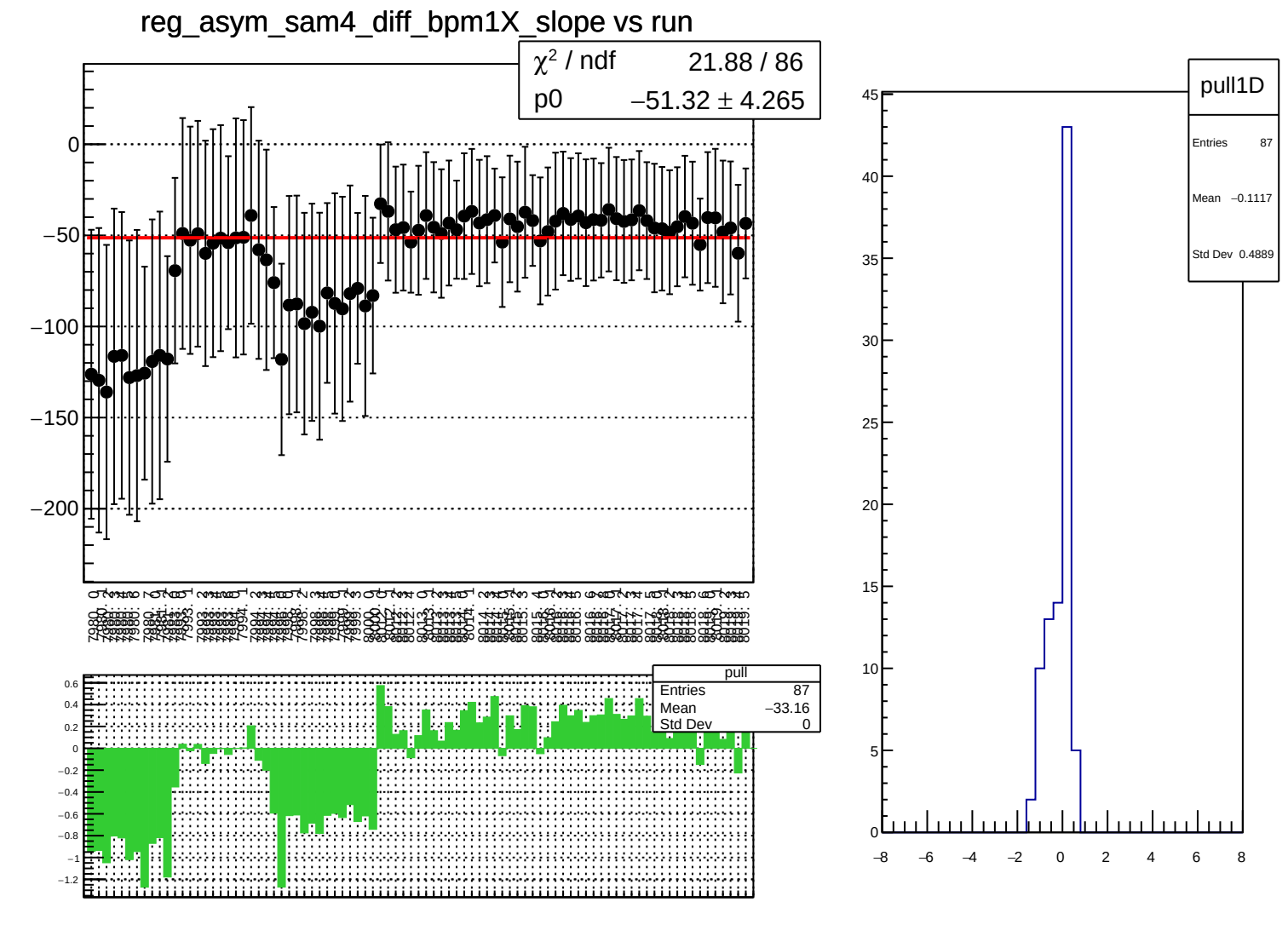

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 18.43 / 86
p0 −52.53 ± 2.36
pull
Entries 87
Mean −22.87
Std Dev 0

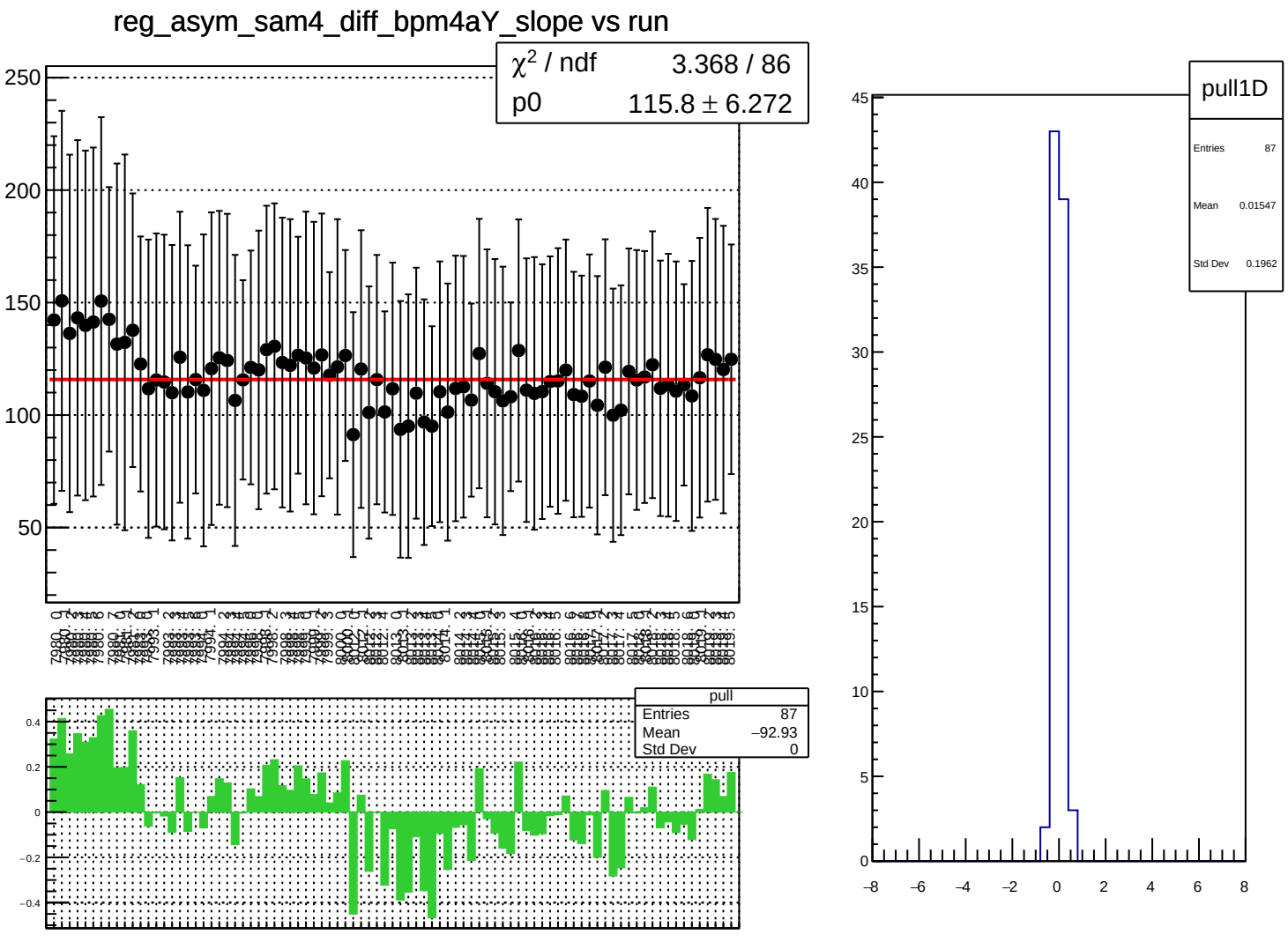

pull1D
Entries 87
Mean 0.02109
Std Dev 0.4597

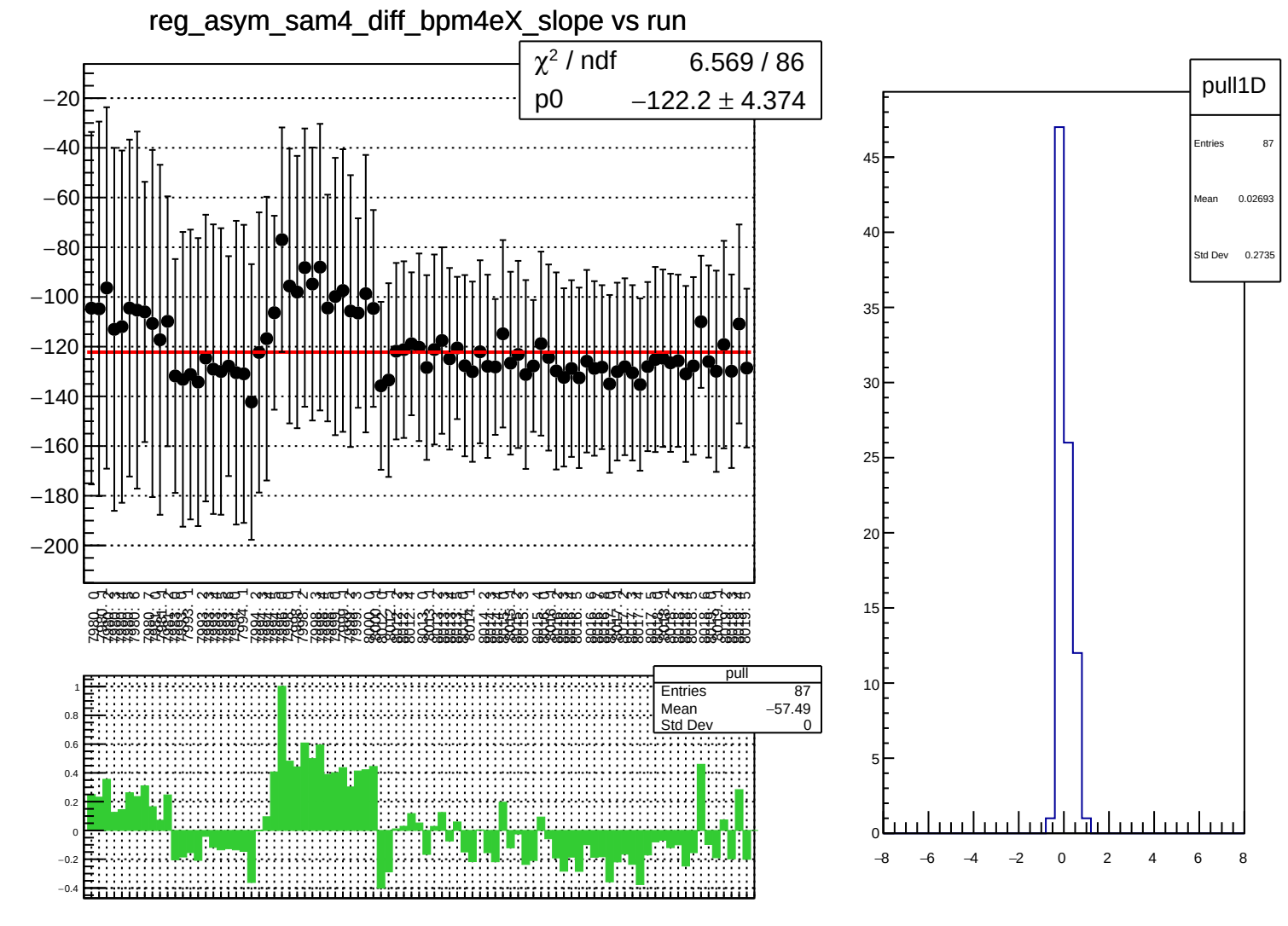

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.665 / 86
p0 17.91 ± 3.703
pull
Entries 87
Mean −63.58
Std Dev 0

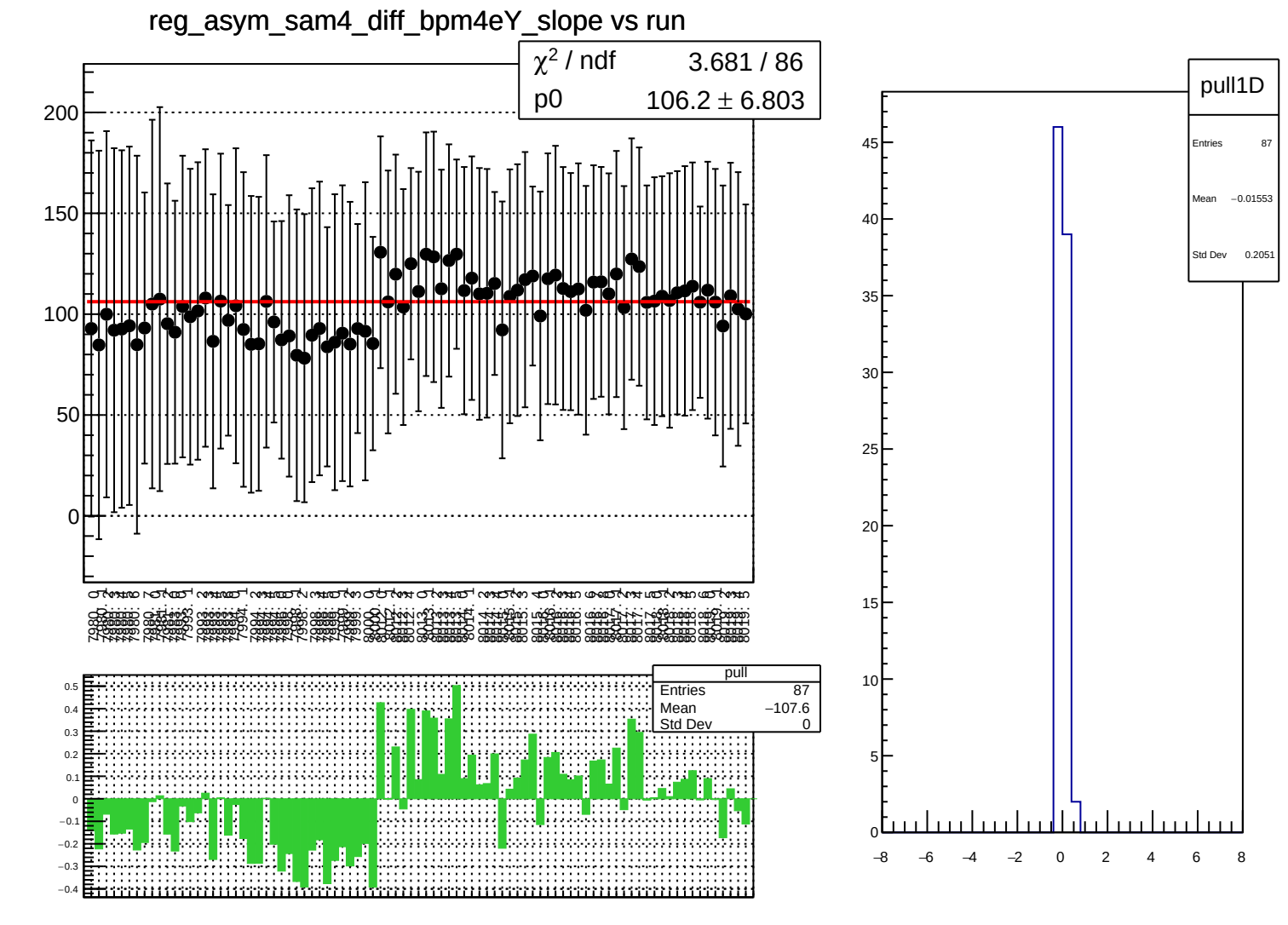

pull1D
Entries 87
Mean −0.01418
Std Dev 0.2311

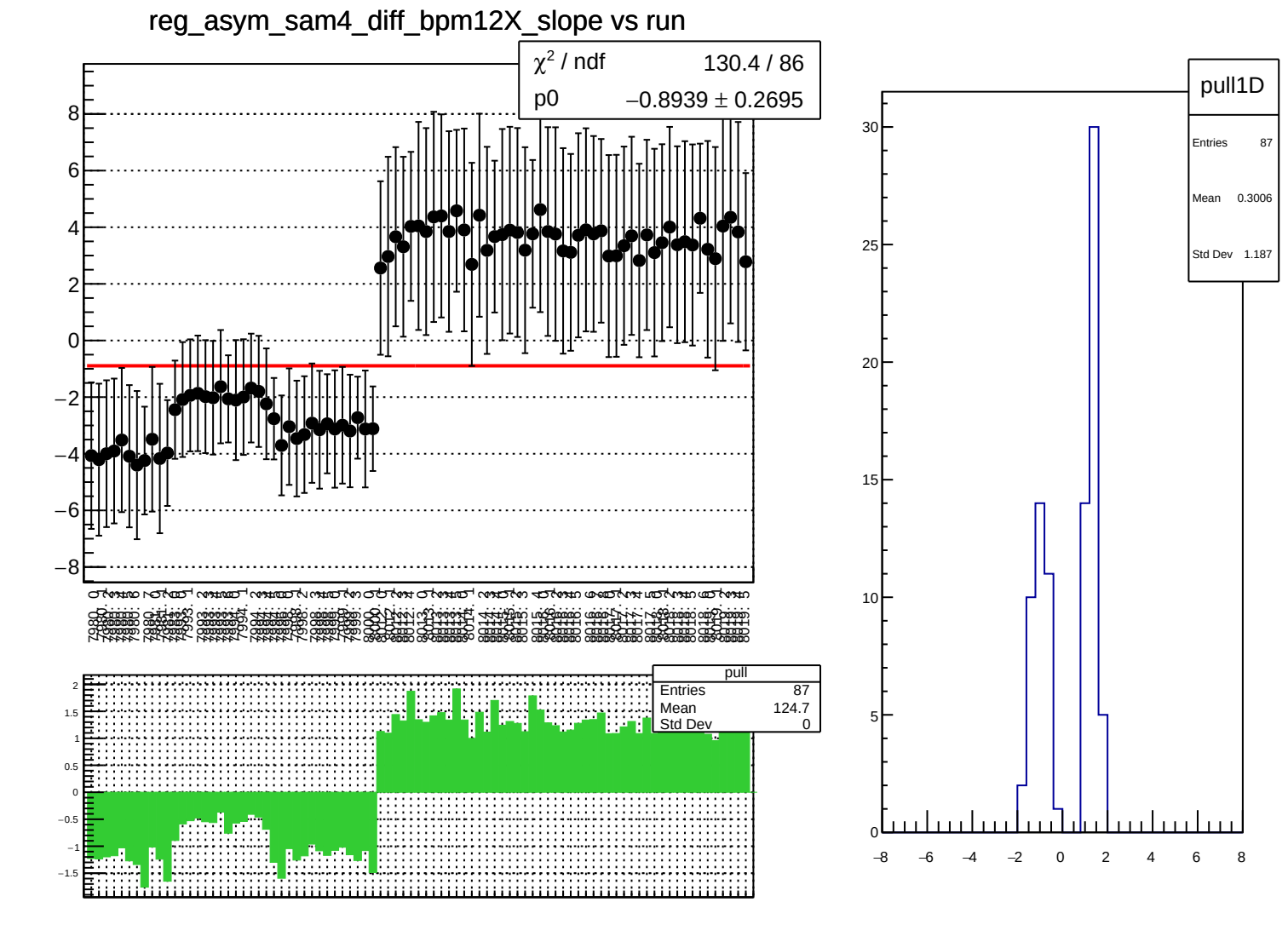

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 136.3 / 86
p0 0.1429 ± 0.1512
pull
Entries 87
Mean 143.6
Std Dev 0
pull1D
Entries 87
Mean 0.2399
Std Dev 1.228

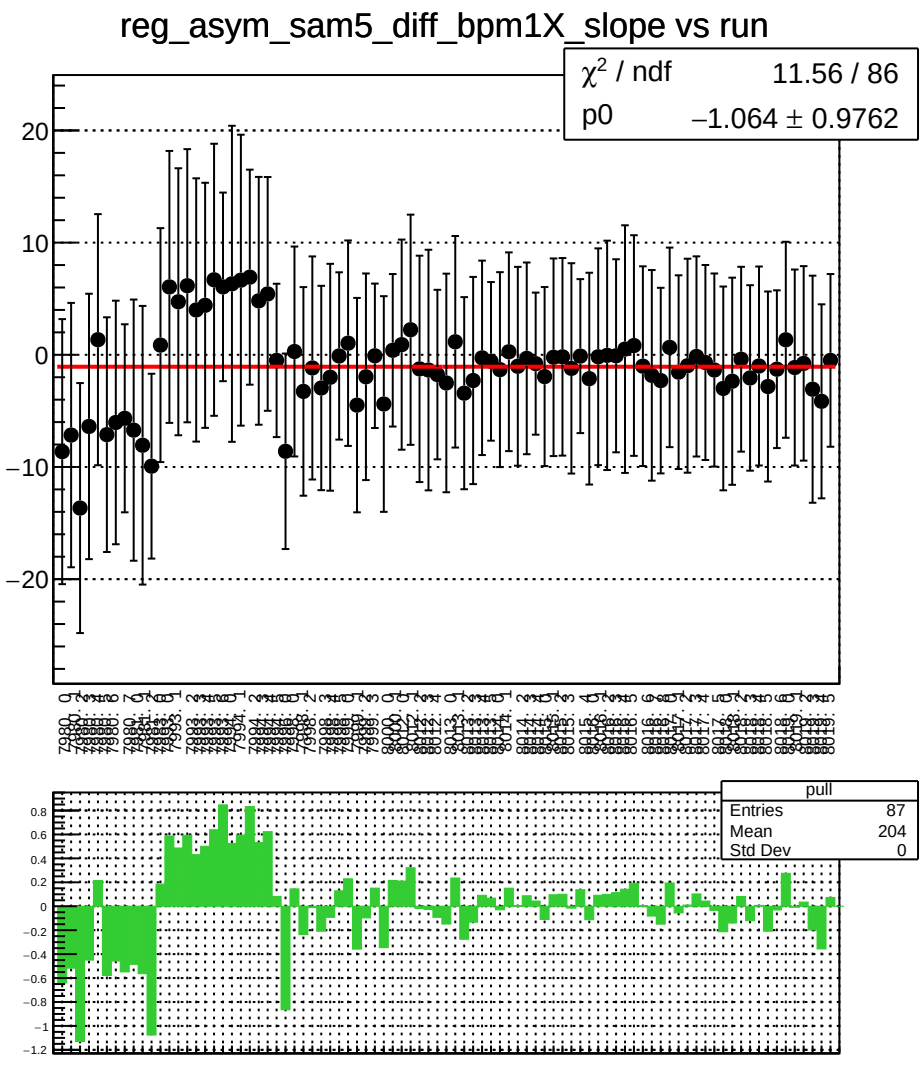

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 21.88 / 86
p0 −51.32 ± 4.265
pull
Entries 87
Mean −33.16
Std Dev 0
pull1D
Entries 87
Mean −0.1117
Std Dev 0.4889

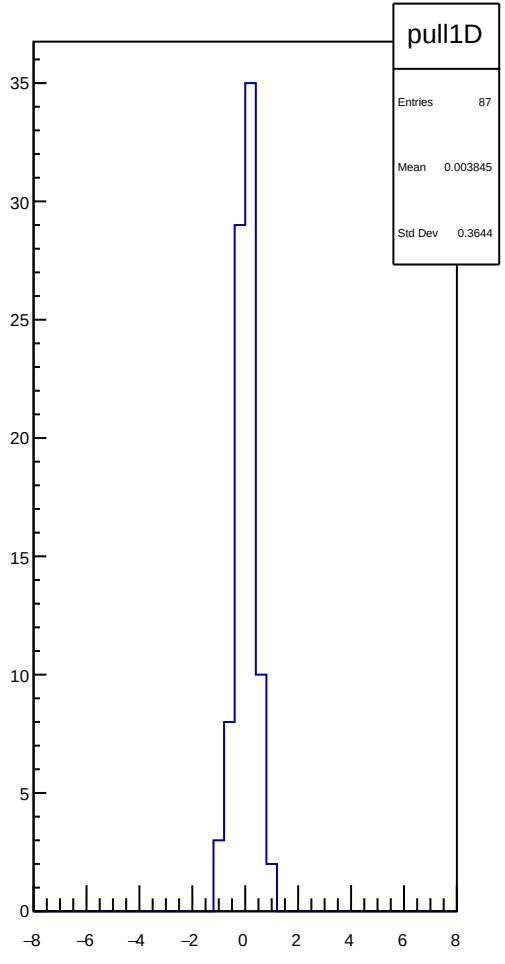

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 3.368 / 86
p0 115.8 ± 6.272
250
200
150
100
50
pull
Entries 87
Mean −92.93
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 87
Mean 0.01547
Std Dev 0.1962
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

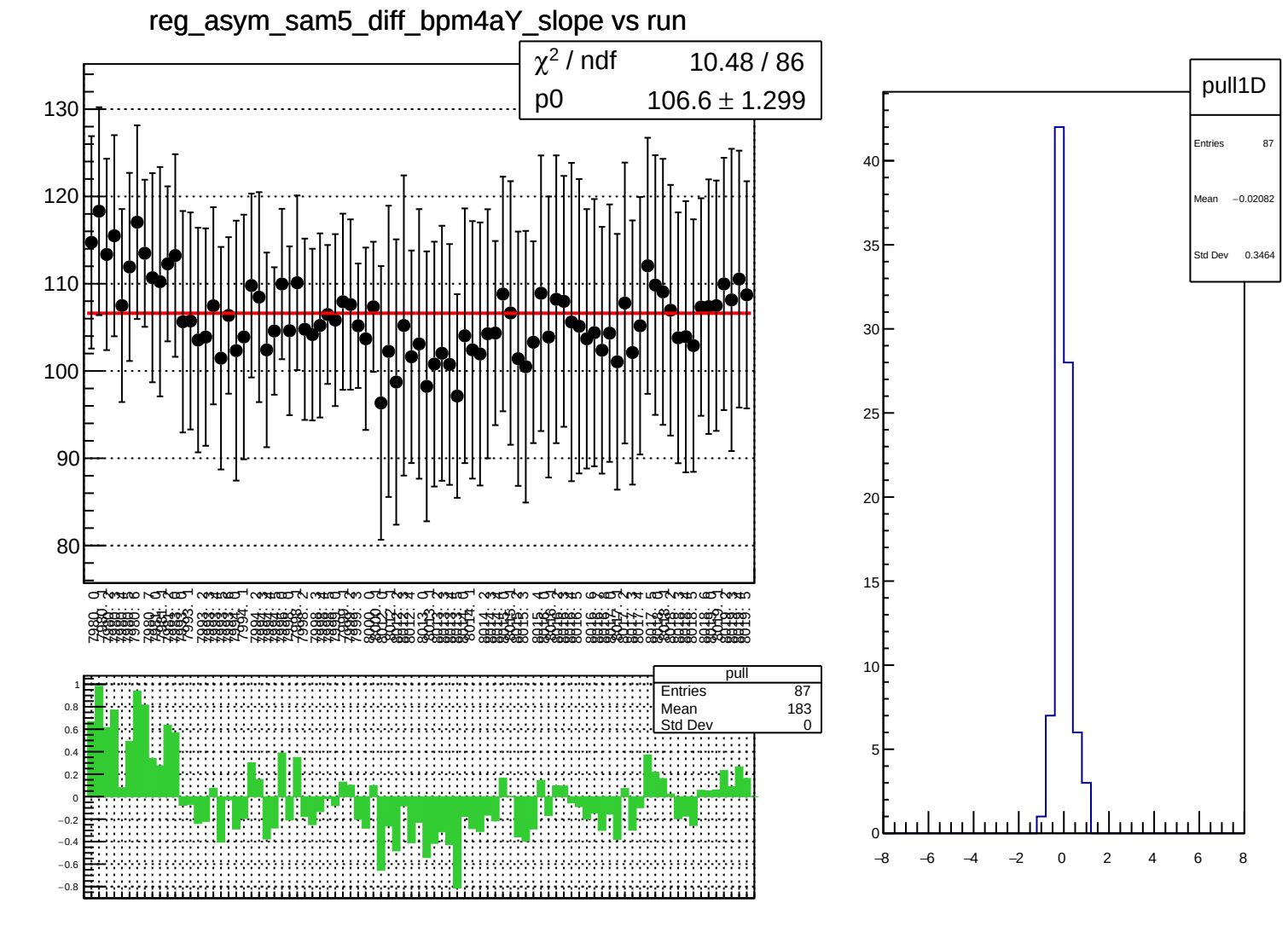

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 6.569 / 86
p0 −122.2 ± 4.374
pull
Entries 87
Mean −57.49
Std Dev 0
pull1D
Entries 87
Mean 0.02693
Std Dev 0.2735

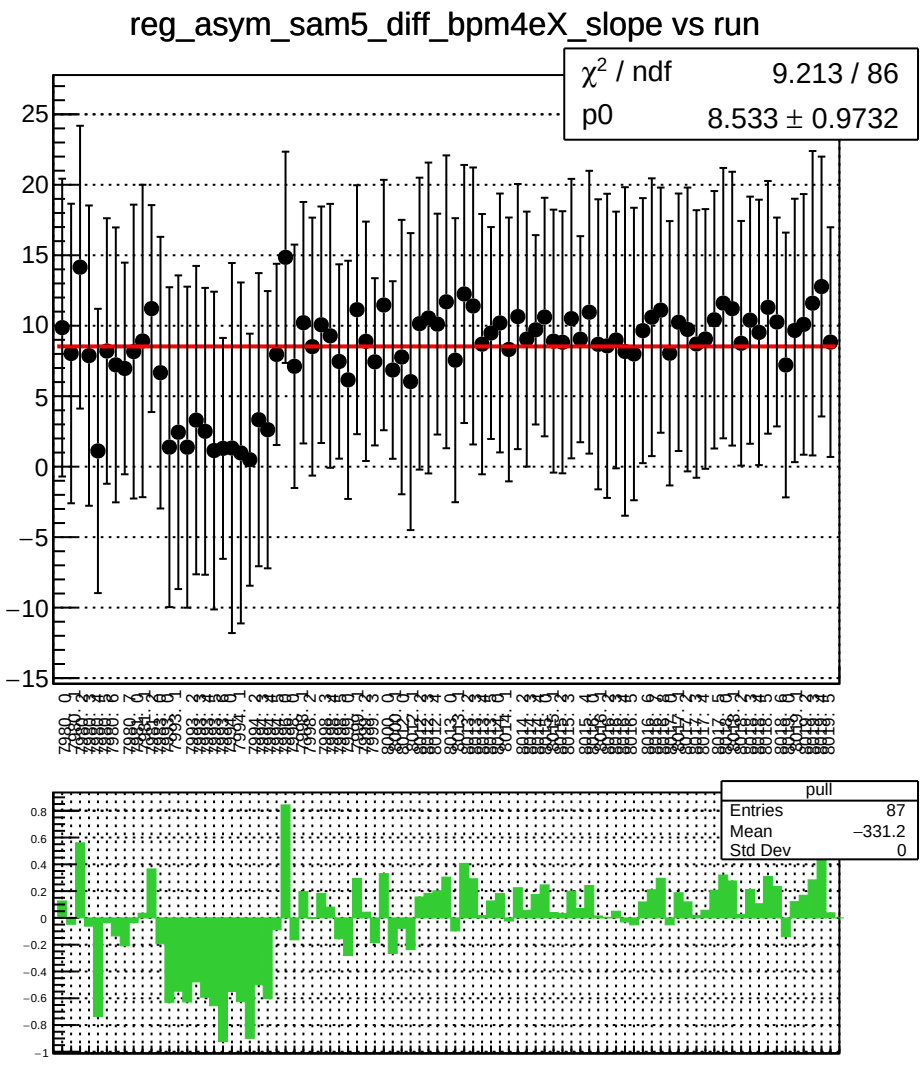

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 3.681 / 86
p0 106.2 ± 6.803
pull
Entries 87
Mean −107.6
Std Dev 0
pull1D
Entries 87
Mean −0.01553
Std Dev 0.2051

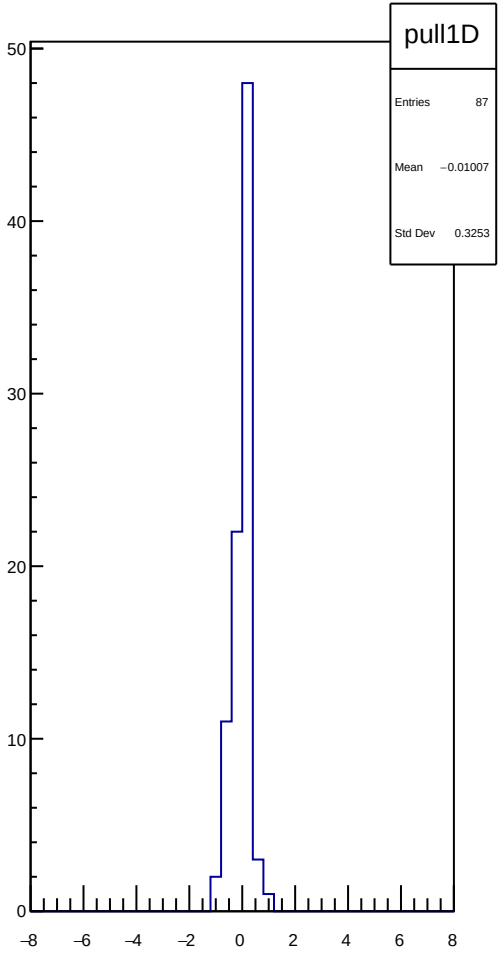

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 130.4 / 86
p0 −0.8939 ± 0.2695
pull
Entries 87
Mean 124.7
Std Dev 0
pull1D
Entries 87
Mean 0.3006
Std Dev 1.187

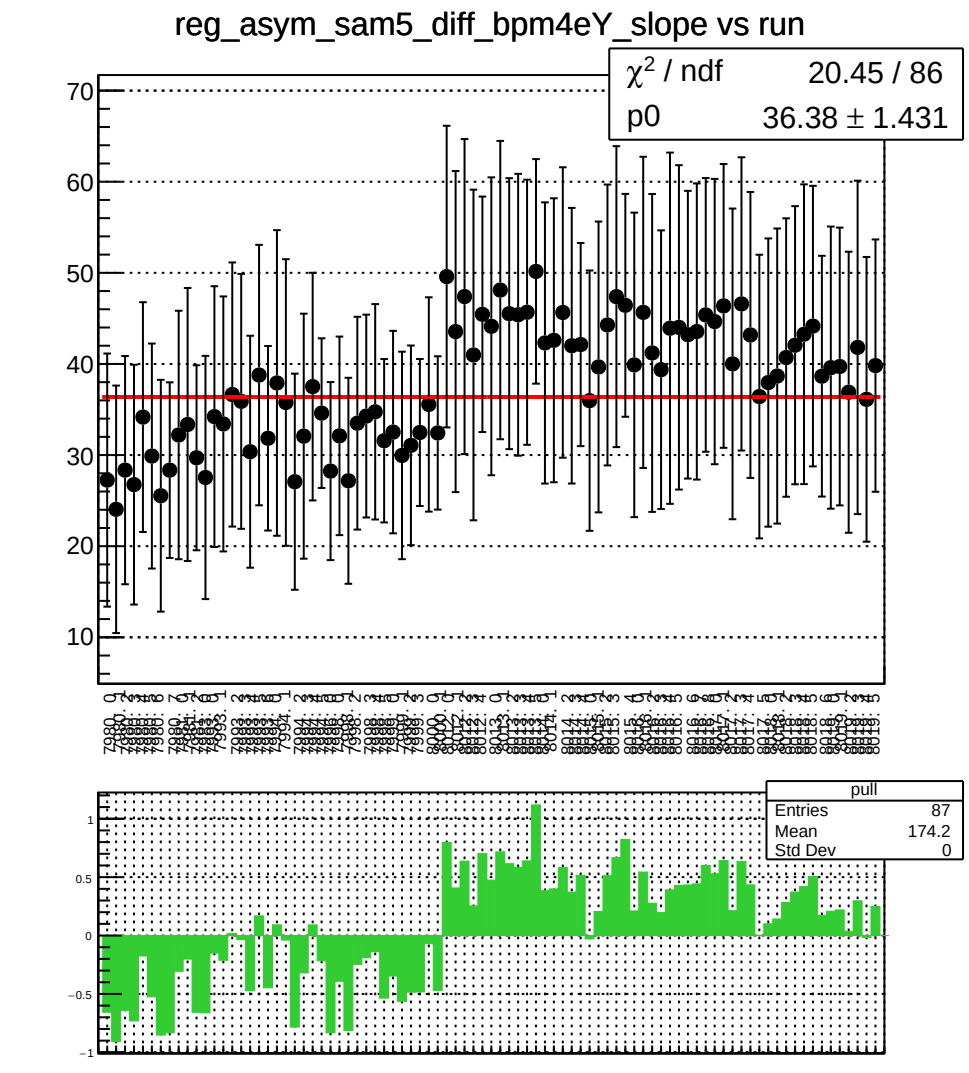

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 11.56 / 86
p0 −1.064 ± 0.9762
pull
Entries 87
Mean 204
Std Dev 0

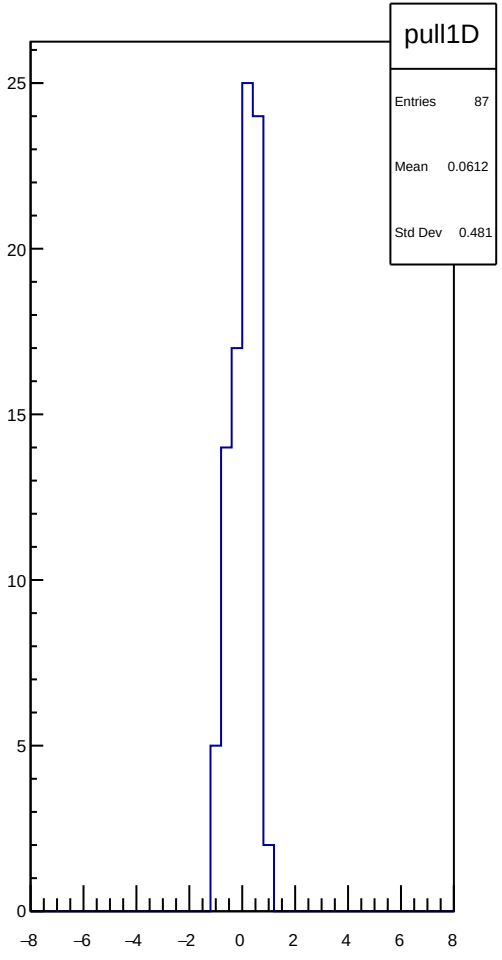

pull1D
Entries 87
Mean 0.003845
Std Dev 0.3644

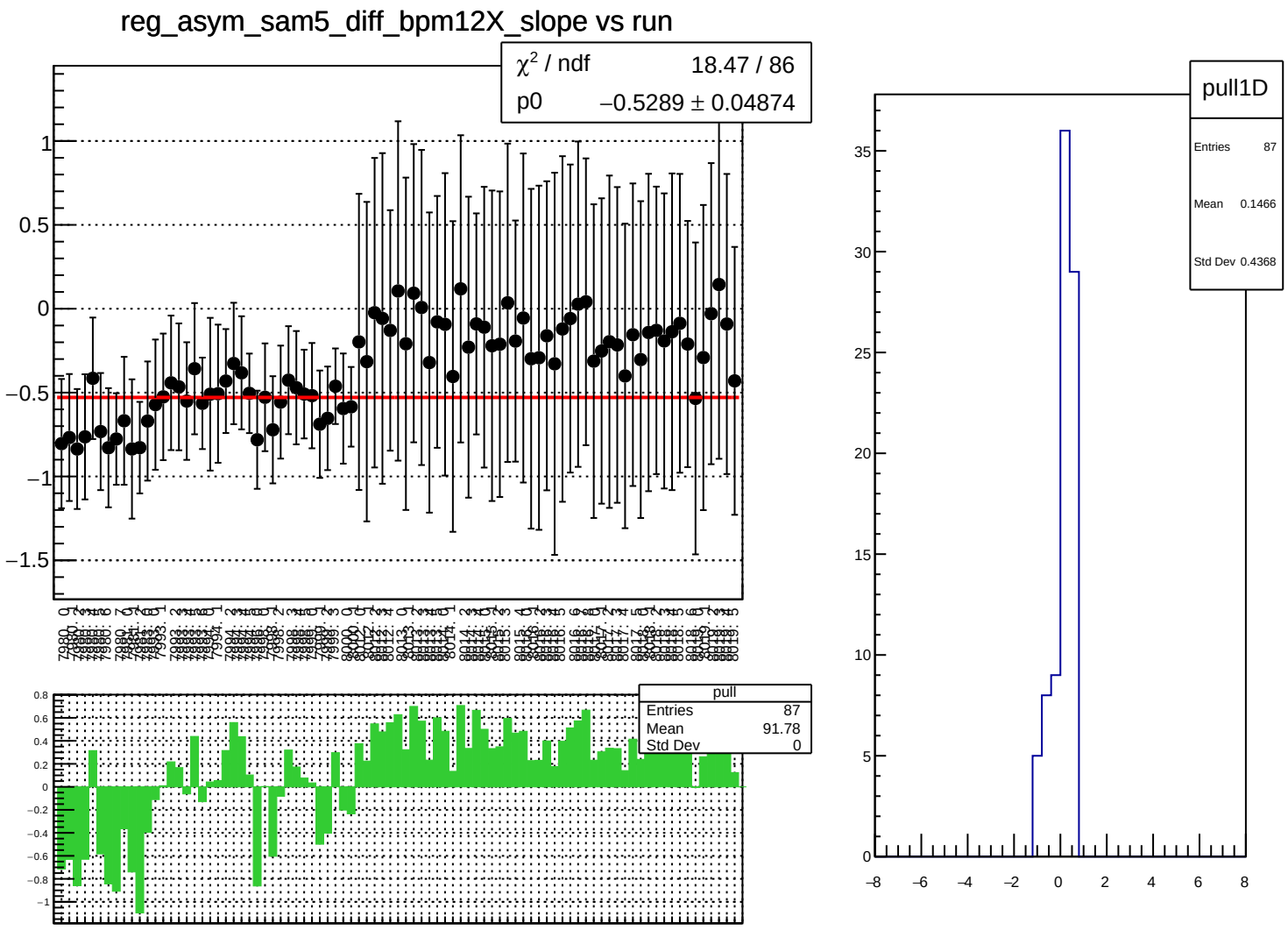

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 10.48 / 86
p0 106.6 ± 1.299
pull
Entries 87
Mean 183
Std Dev 0
pull1D
Entries 87
Mean −0.02082
Std Dev 0.3464

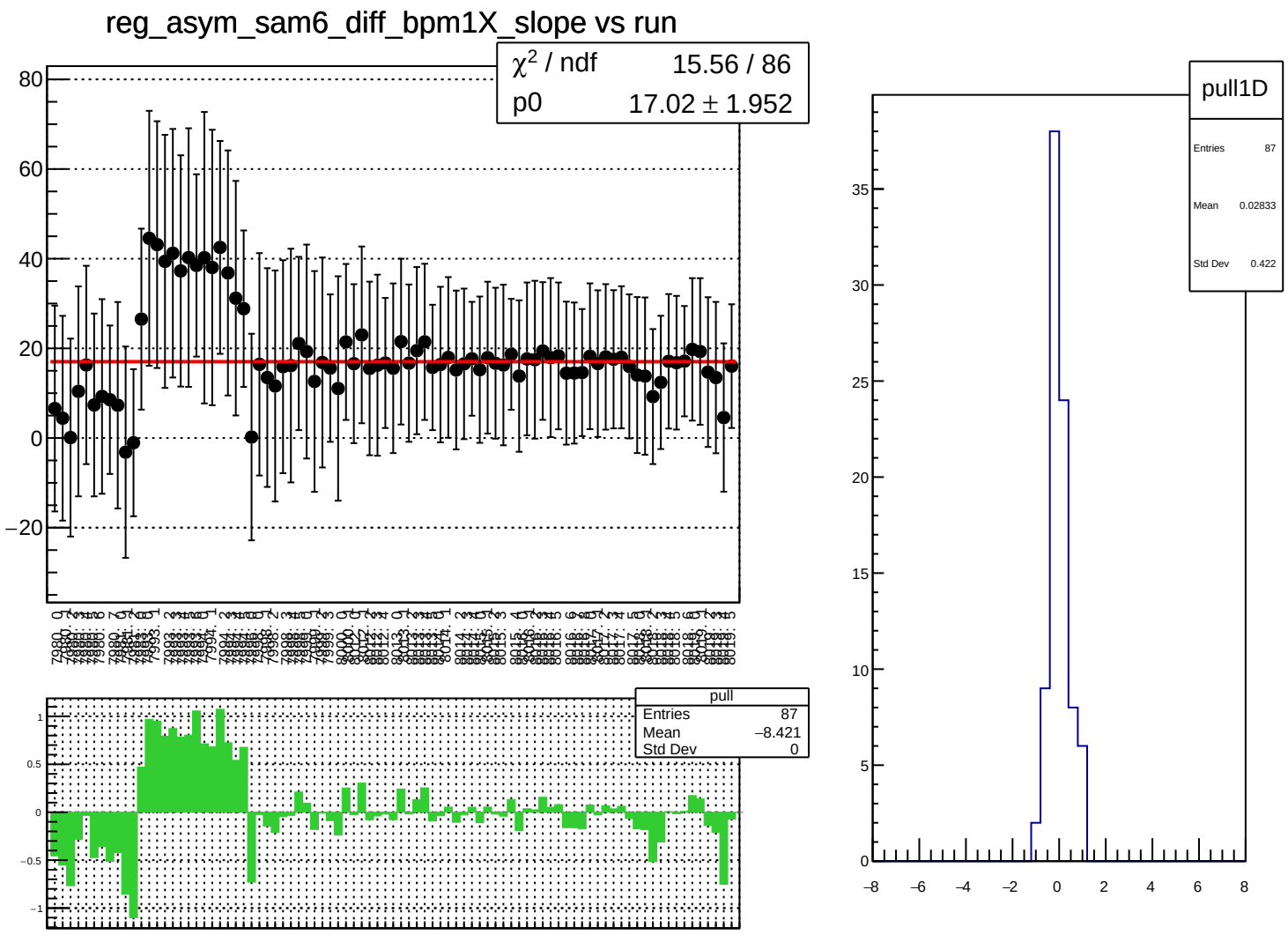

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 9.213 / 86
p0 8.533 ± 0.9732
pull
Entries 87
Mean −331.2
Std Dev 0

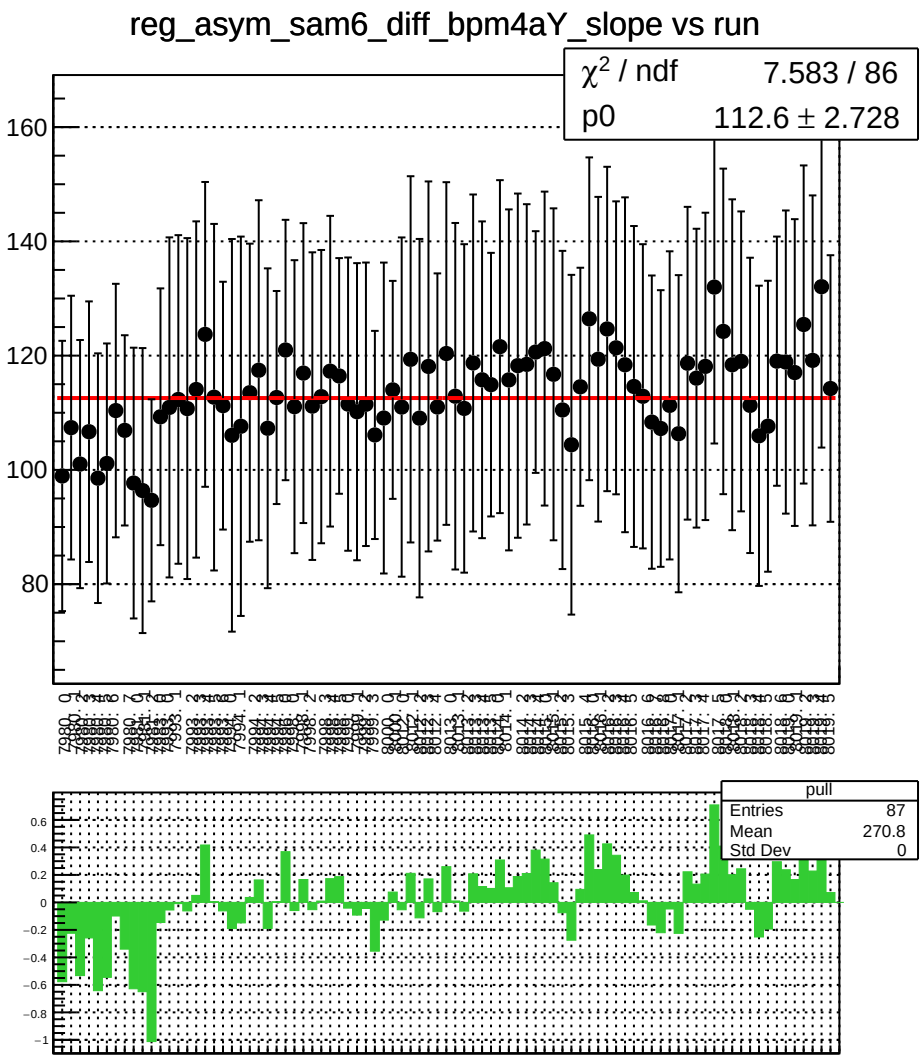

pull1D
Entries 87
Mean −0.01007
Std Dev 0.3253

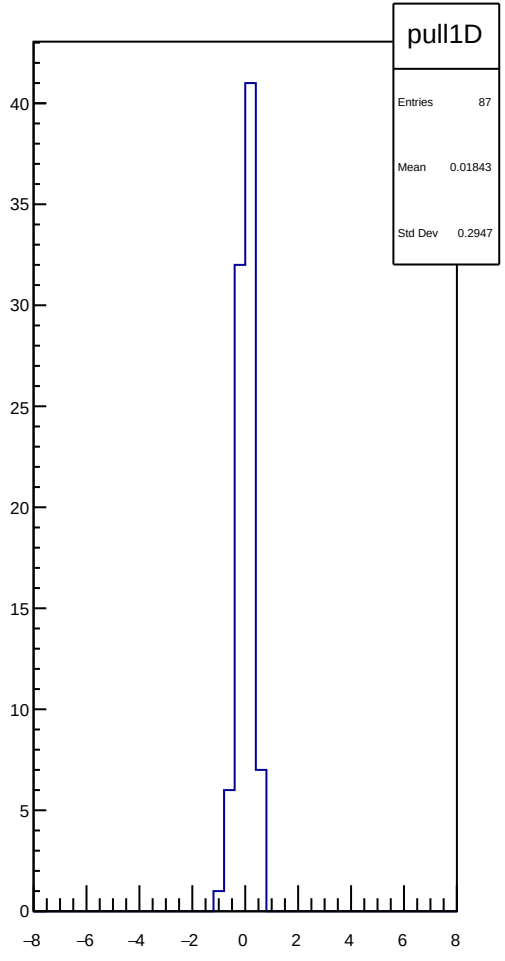

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 20.45 / 86
p0 36.38 ± 1.431
pull
Entries 87
Mean 174.2
Std Dev 0

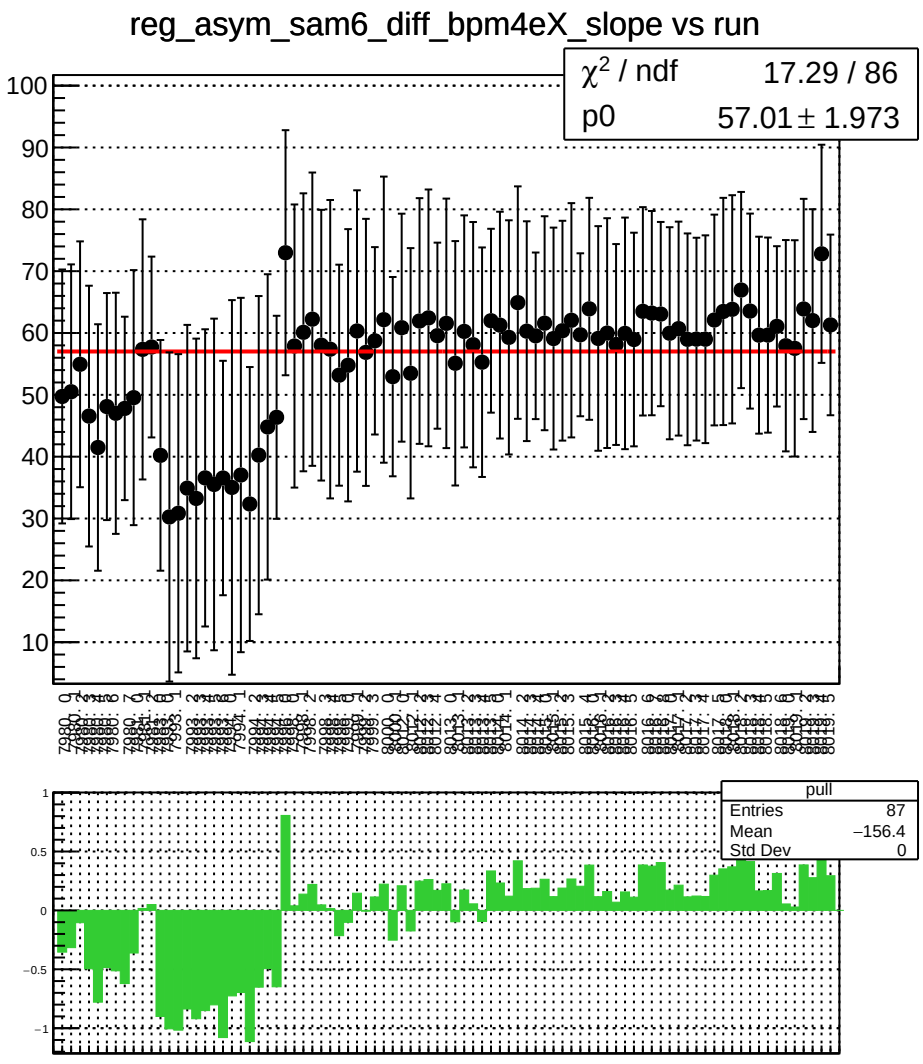

pull1D
Entries 87
Mean 0.0612
Std Dev 0.481

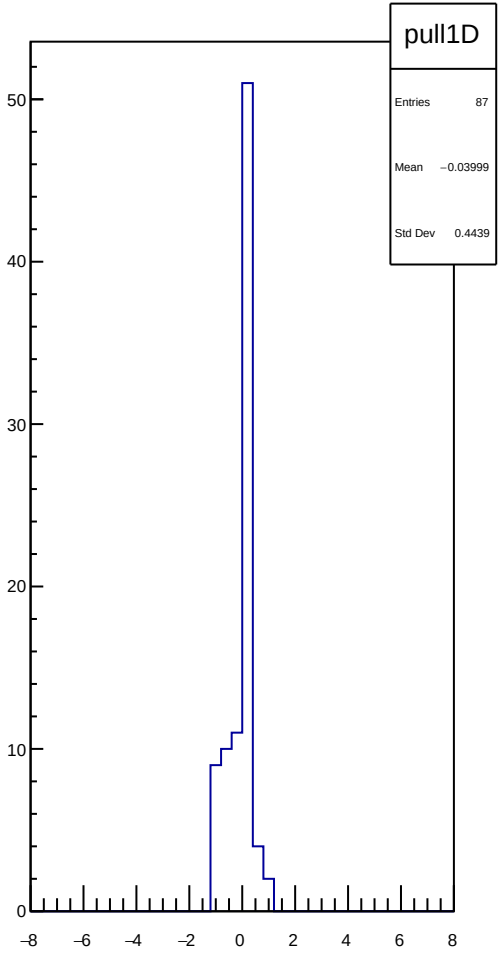

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 18.47 / 86
p0 −0.5289 ± 0.04874
pull
Entries 87
Mean 91.78
Std Dev 0
pull1D
Entries 87
Mean 0.1466
Std Dev 0.4368

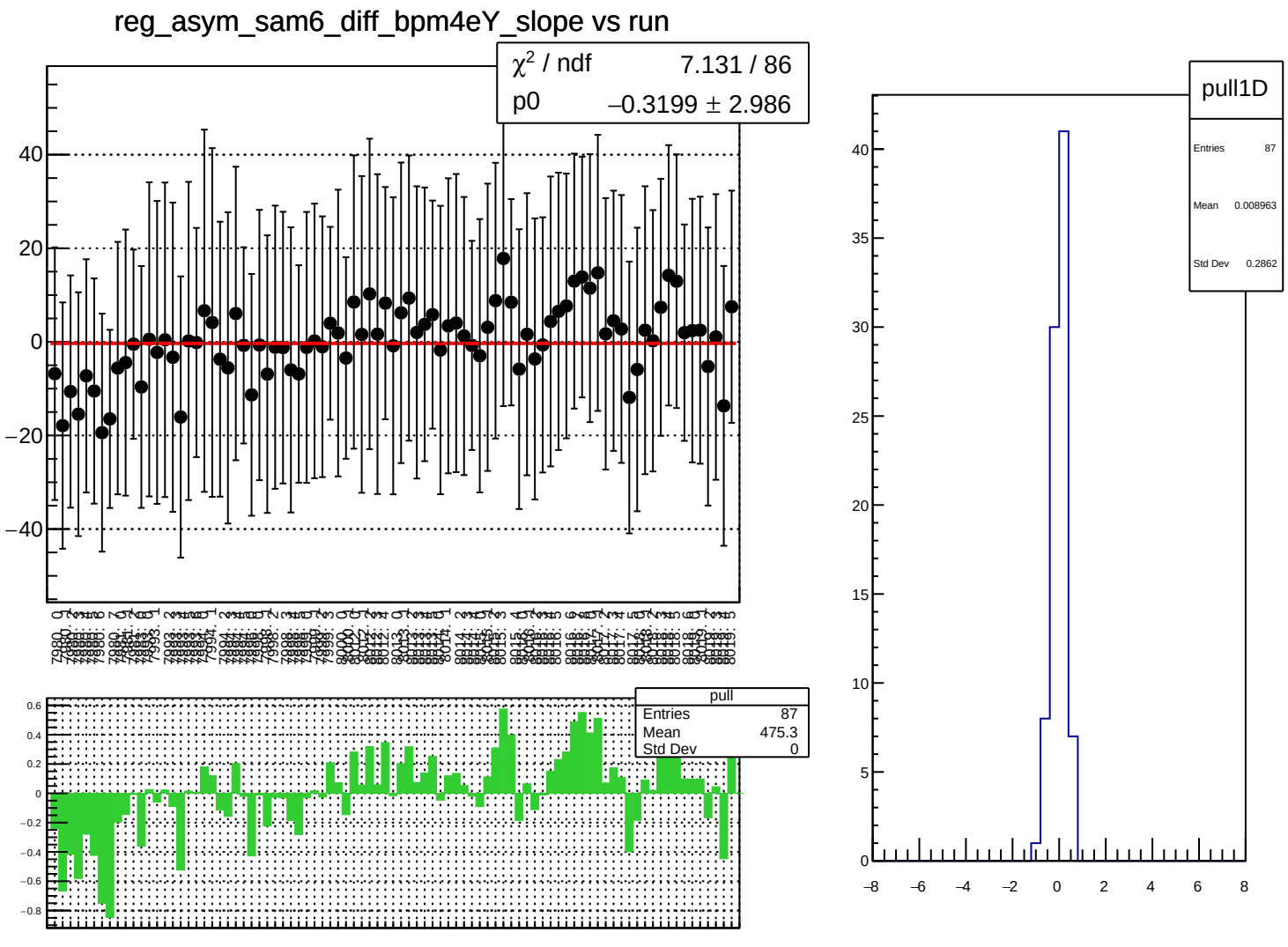

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 15.56 / 86
p0 17.02 ± 1.952
pull
Entries 87
Mean −8.421
Std Dev 0
pull1D
Entries 87
Mean 0.02833
Std Dev 0.422

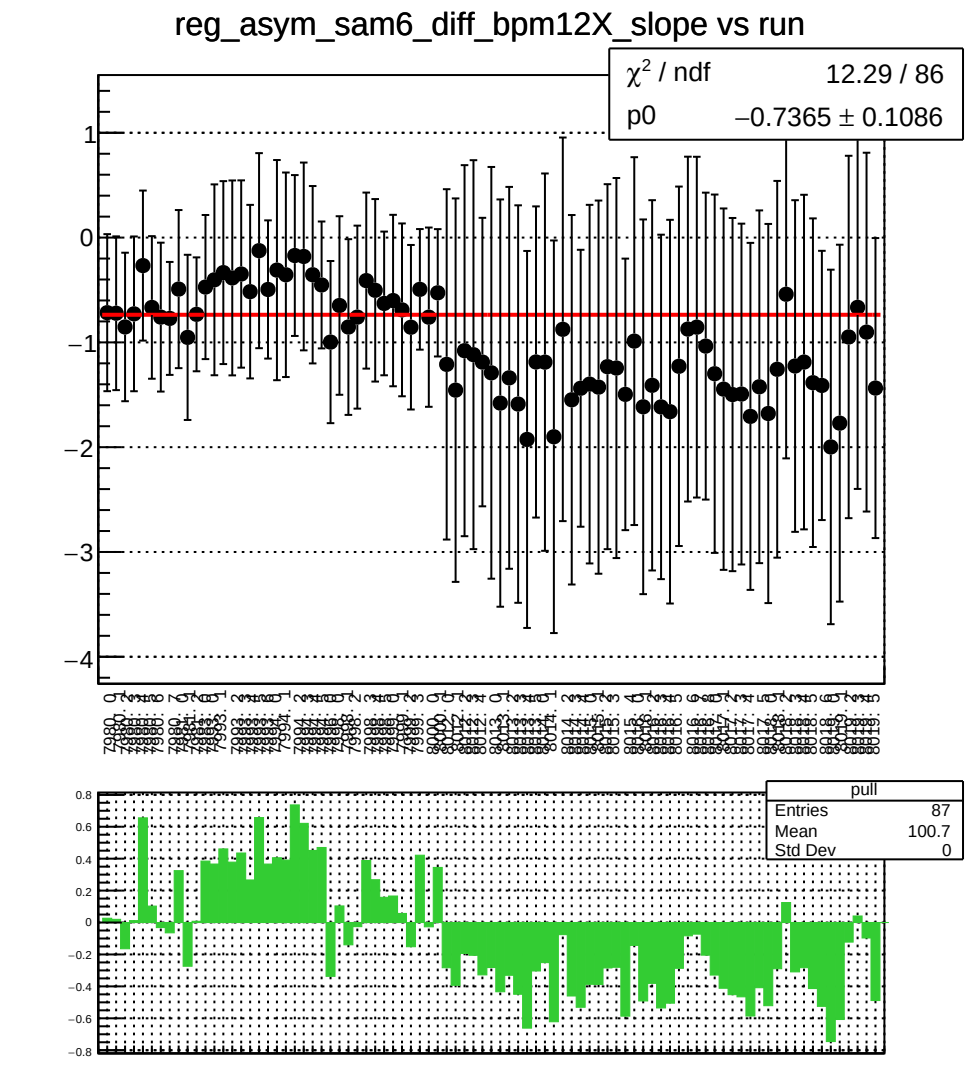

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 7.583 / 86
p0 112.6 ± 2.728
160
140
120
100
80
pull
Entries 87
Mean 270.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

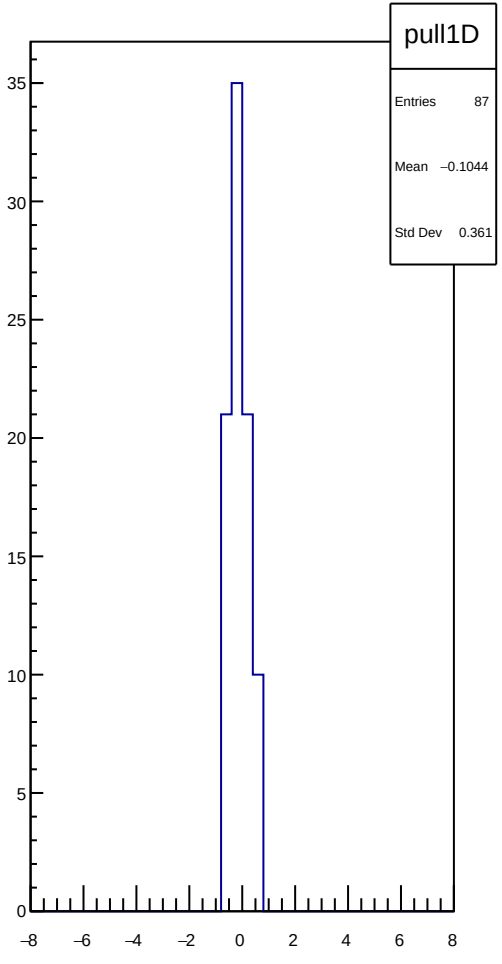

pull1D
Entries 87
Mean 0.01843
Std Dev 0.2947
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

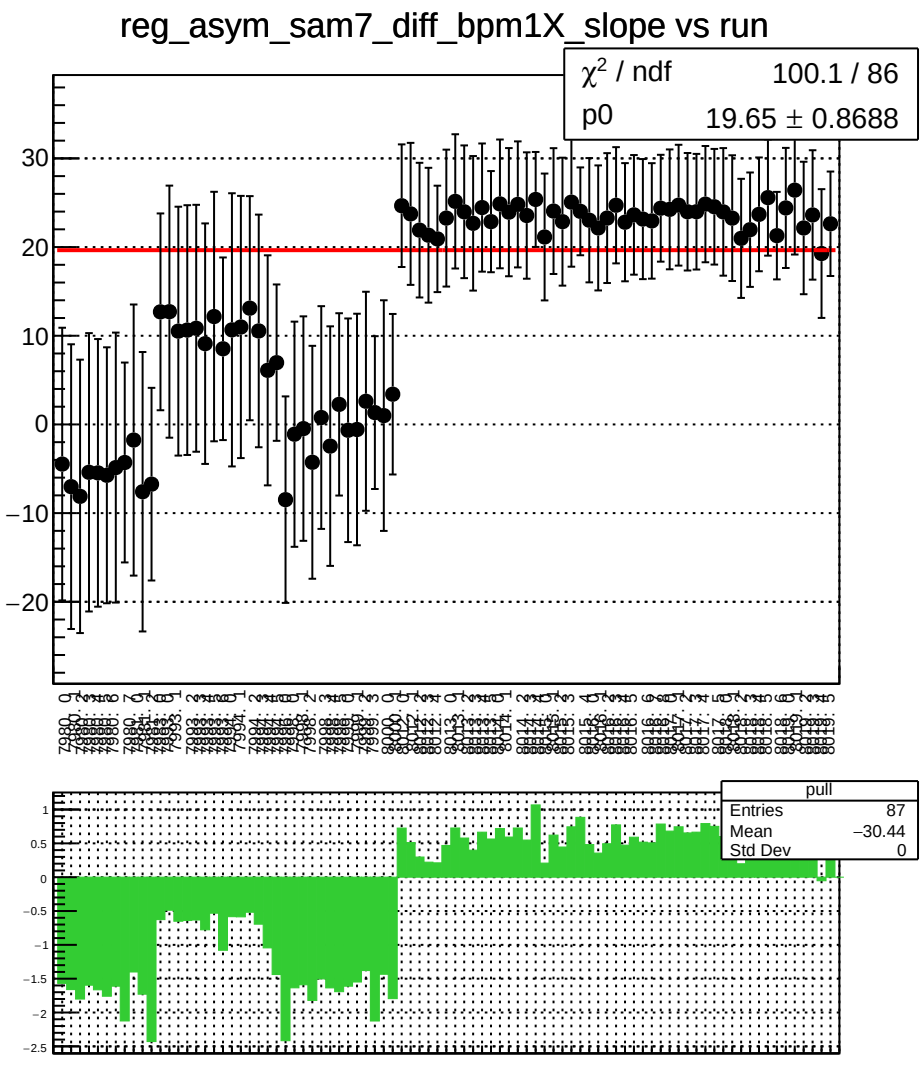

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 17.29 / 86
p0 57.01 ± 1.973
pull
Entries 87
Mean −156.4
Std Dev 0

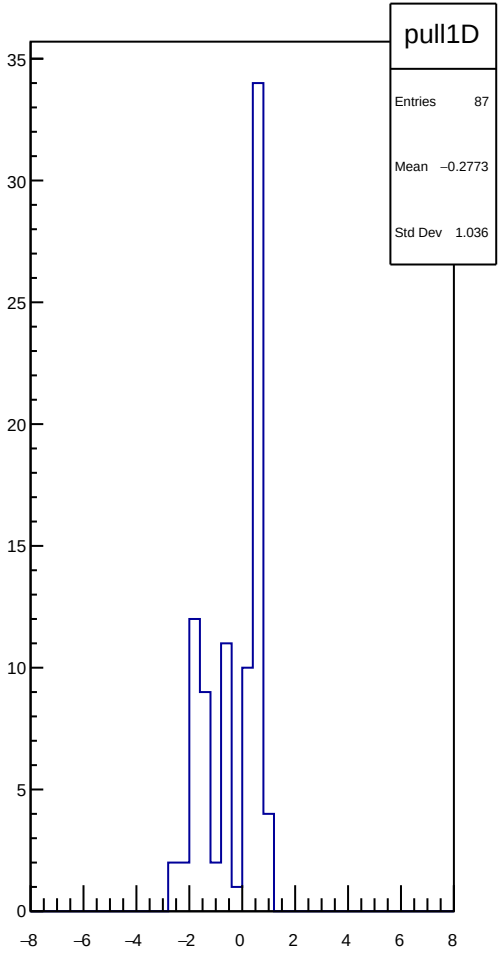

pull1D
Entries 87
Mean −0.03999
Std Dev 0.4439

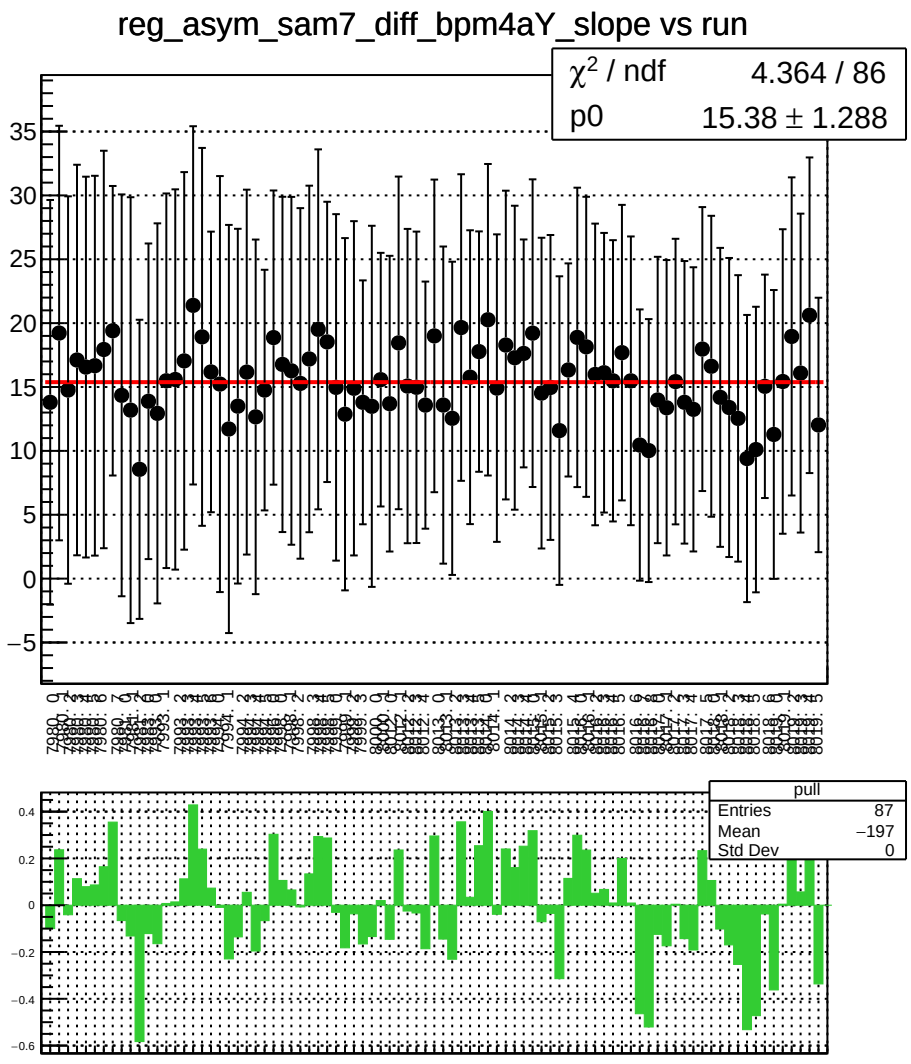

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 7.131 / 86
p0 −0.3199 ± 2.986
pull
Entries 87
Mean 475.3
Std Dev 0
pull1D
Entries 87
Mean 0.008963
Std Dev 0.2862

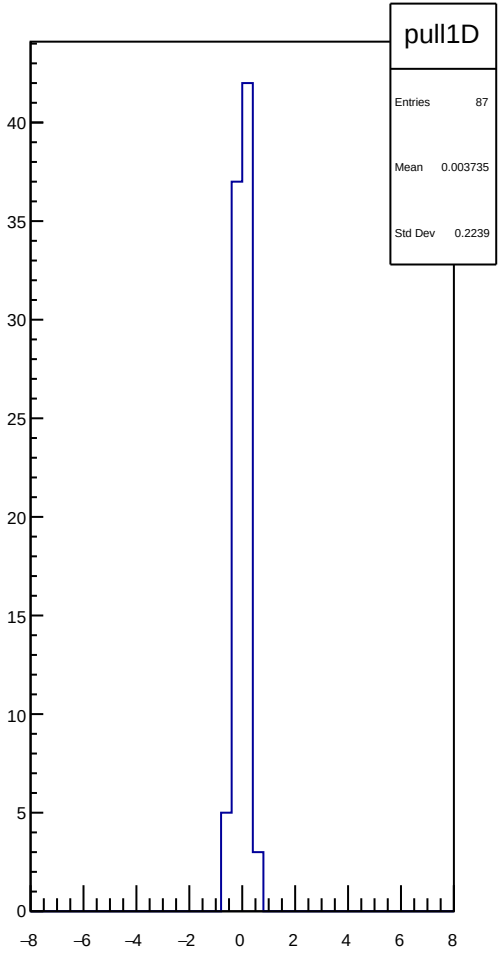

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 12.29 / 86
p0 −0.7365 ± 0.1086
pull
Entries 87
Mean 100.7
Std Dev 0

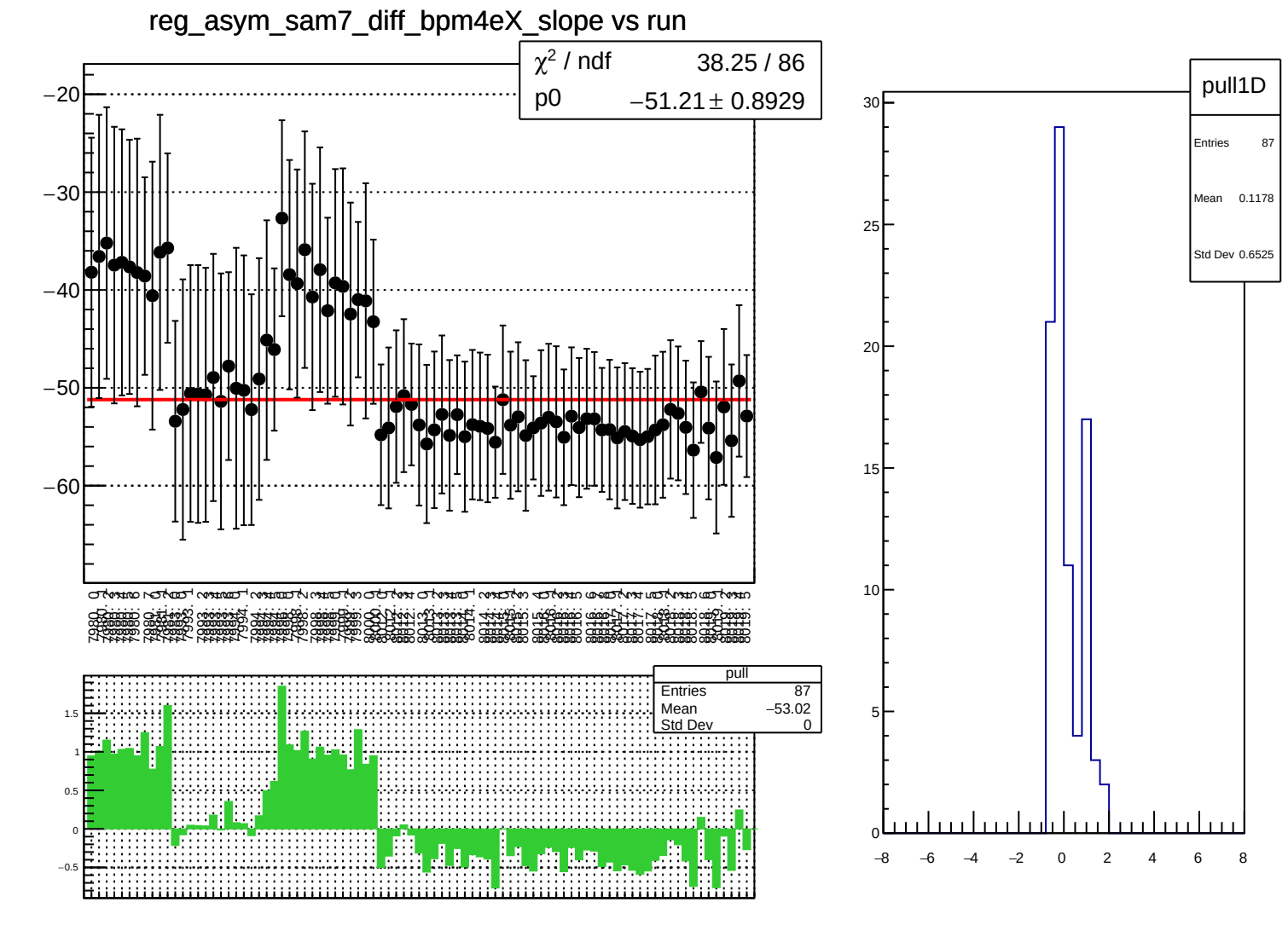

pull1D
Entries 87
Mean −0.1044
Std Dev 0.361

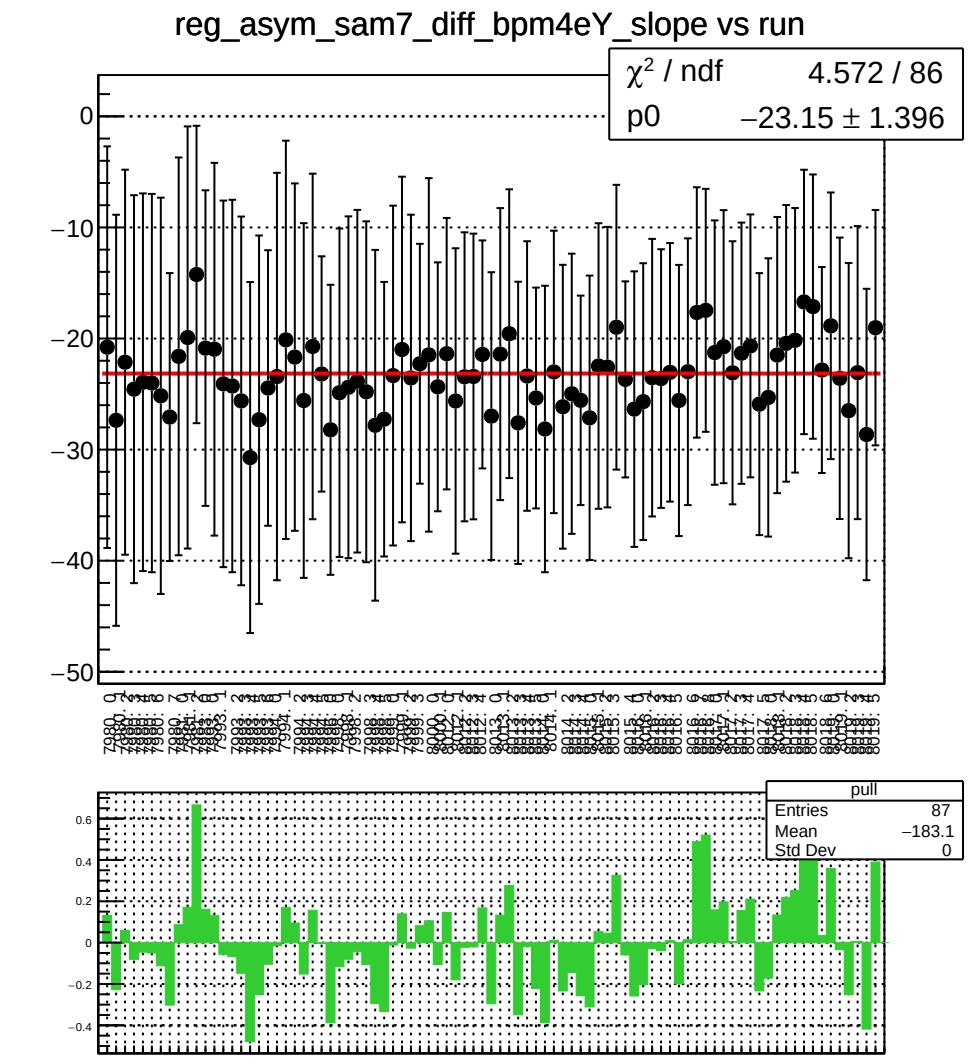

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 100.1 / 86
p0 19.65 ± 0.8688
pull
Entries 87
Mean −30.44
Std Dev 0

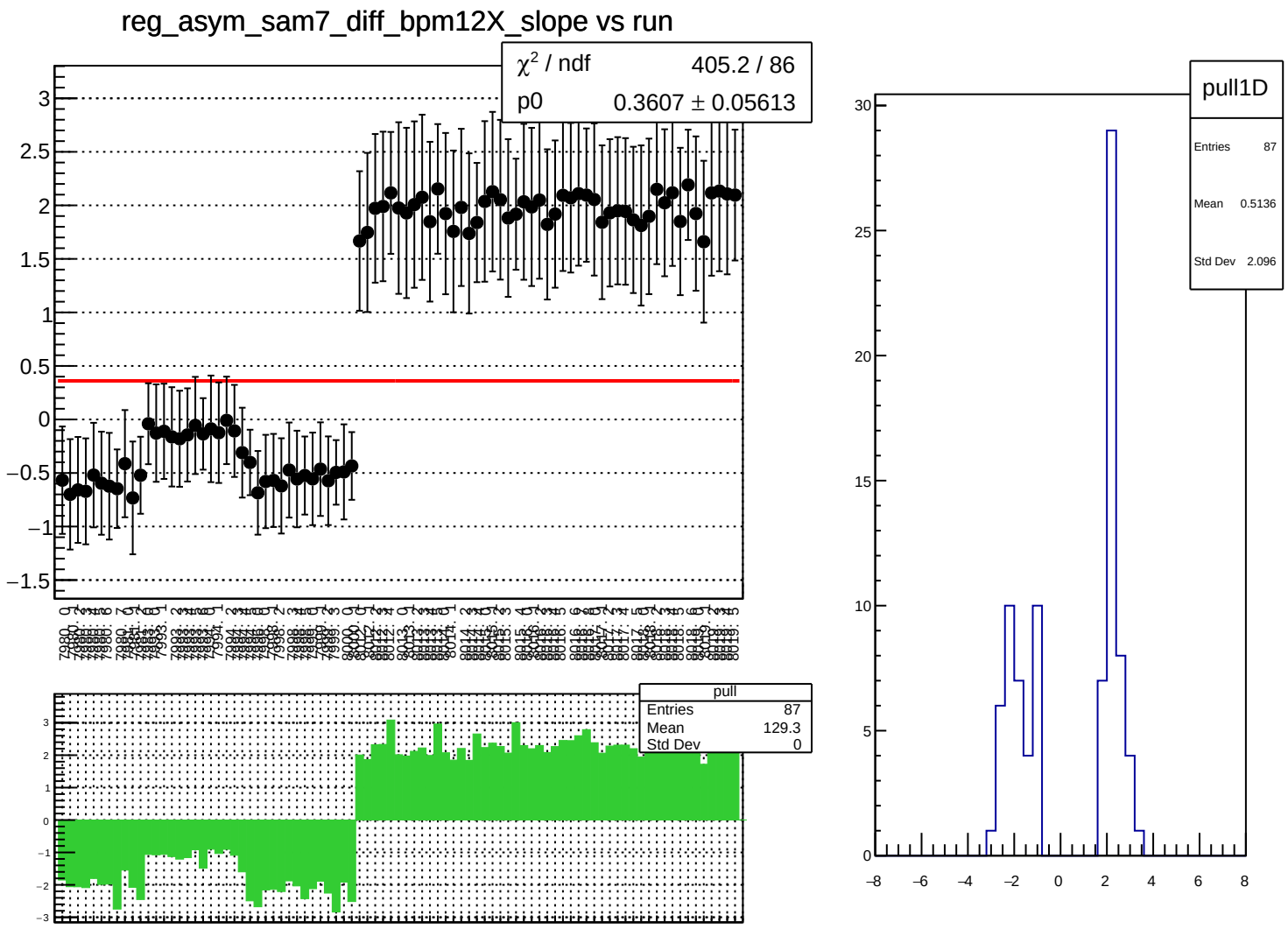

pull1D
Entries 87
Mean −0.2773
Std Dev 1.036

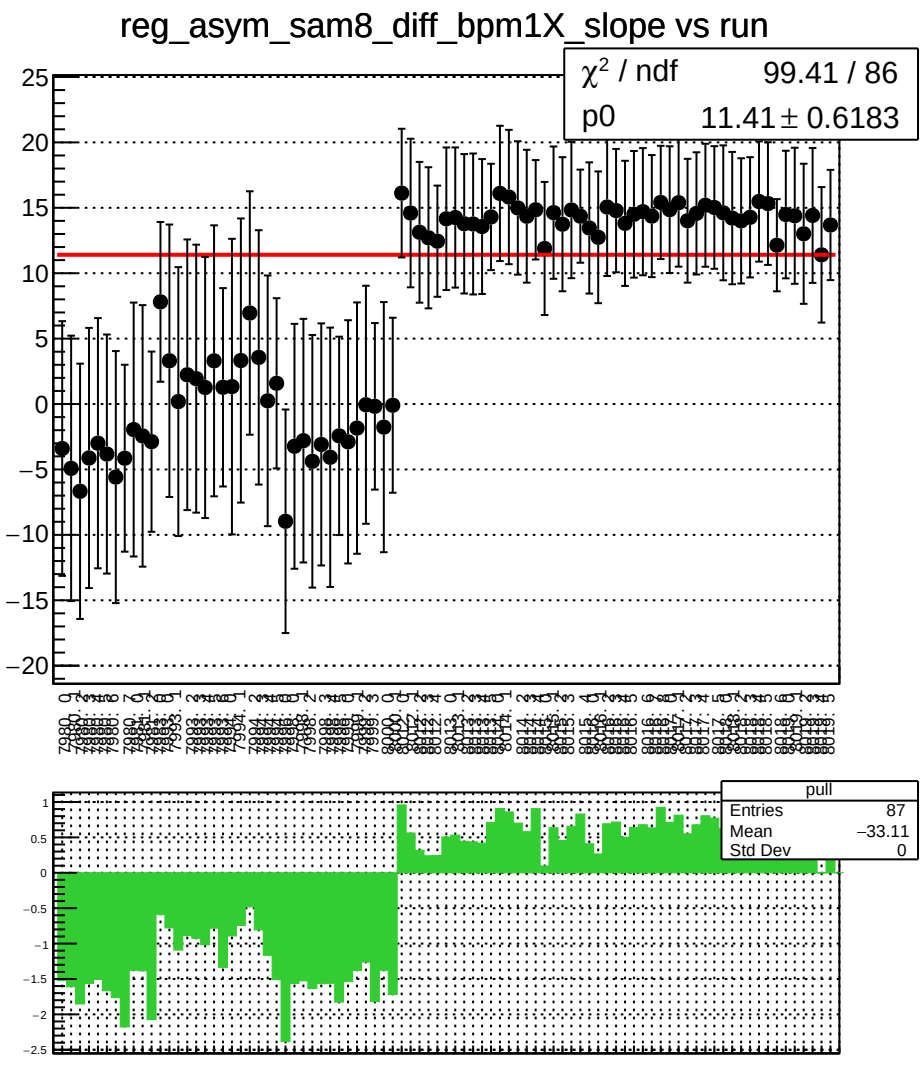

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 4.364 / 86
p0 15.38 ± 1.288
pull
Entries 87
Mean −197
Std Dev 0

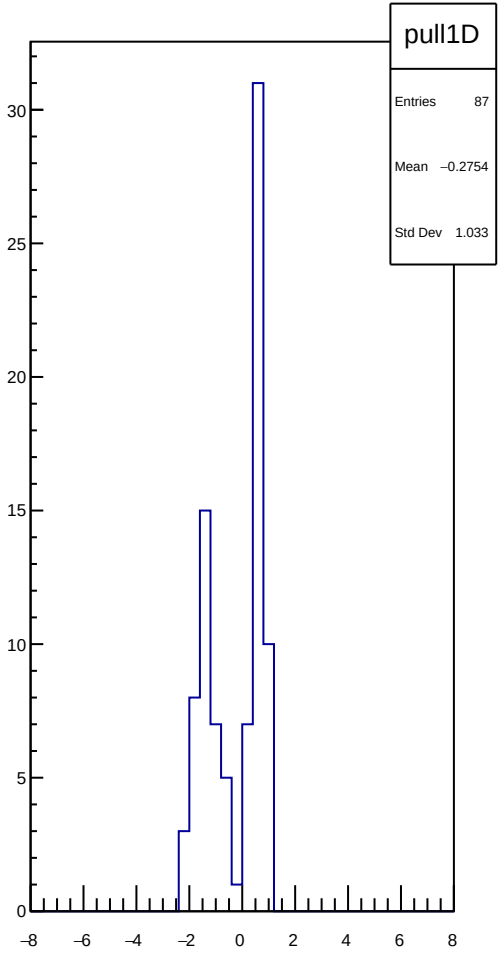

pull1D
Entries 87
Mean 0.003735
Std Dev 0.2239

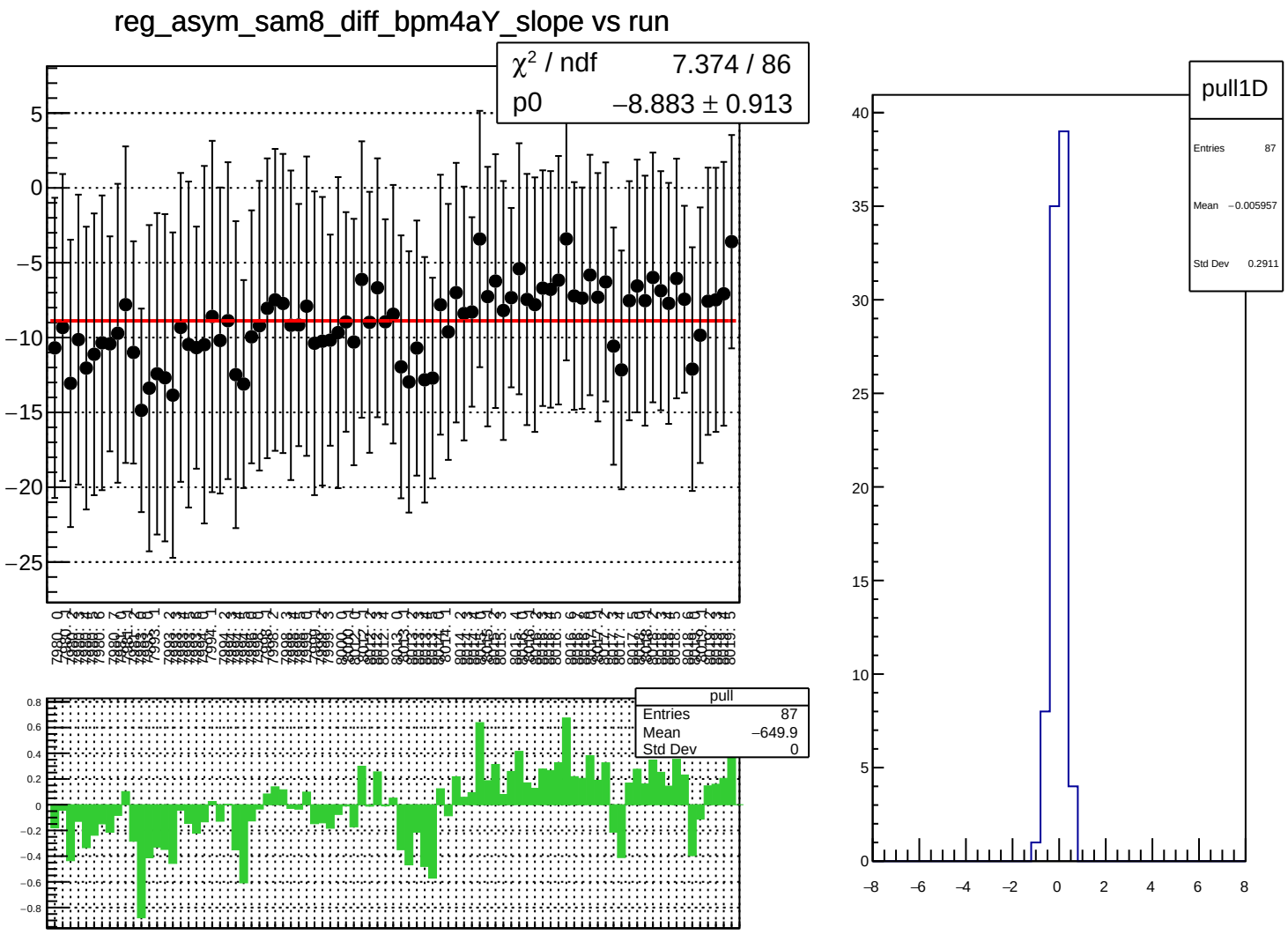

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 38.25 / 86
p0 −51.21 ± 0.8929
pull
Entries 87
Mean −53.02
Std Dev 0
pull1D
Entries 87
Mean 0.1178
Std Dev 0.6525

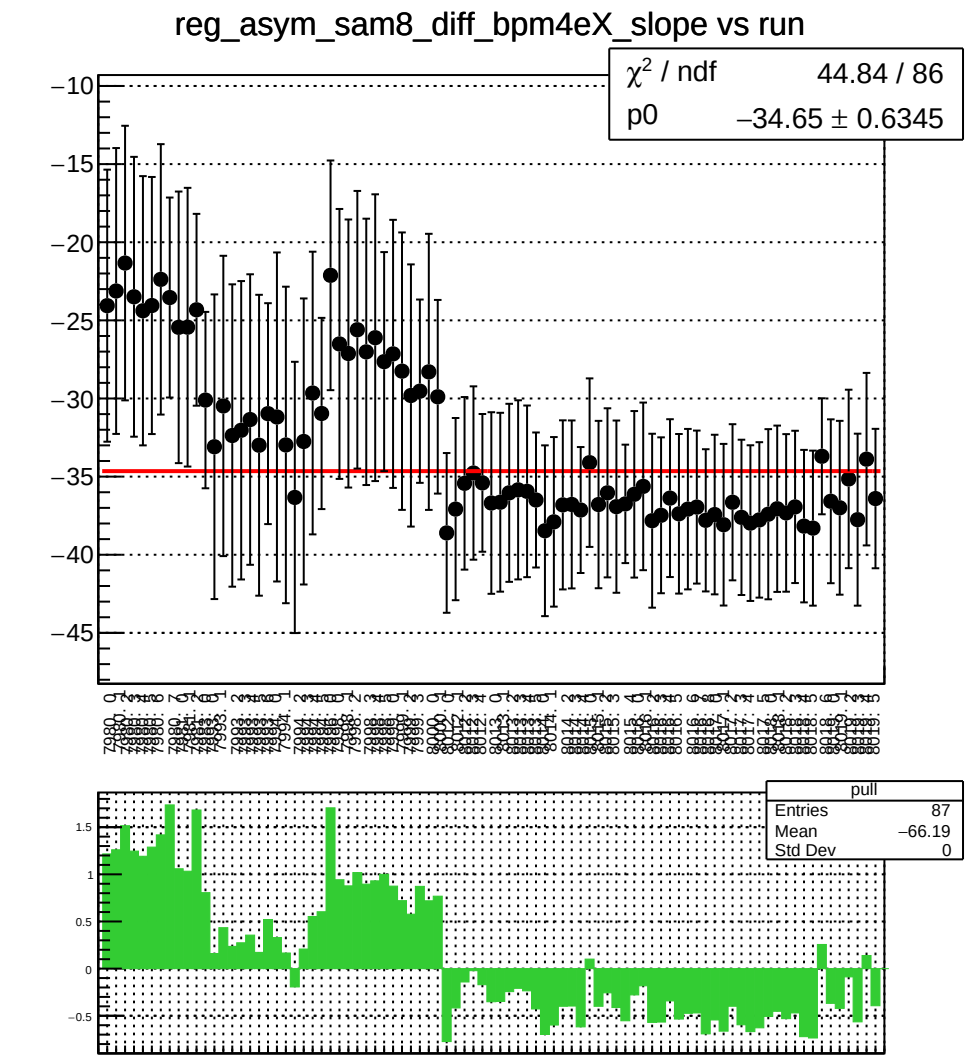

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 4.572 / 86
p0 −23.15 ± 1.396
pull
Entries 87
Mean −183.1
Std Dev 0
pull1D
Entries 87
Mean −0.004913
Std Dev 0.2292

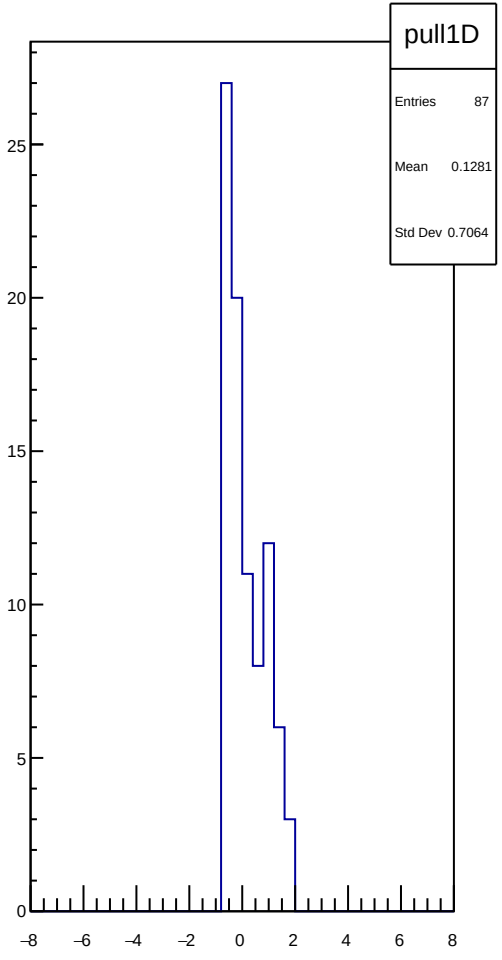

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 405.2 / 86
p0 0.3607 ± 0.05613
pull
Entries 87
Mean 129.3
Std Dev 0
pull1D
Entries 87
Mean 0.5136
Std Dev 2.096

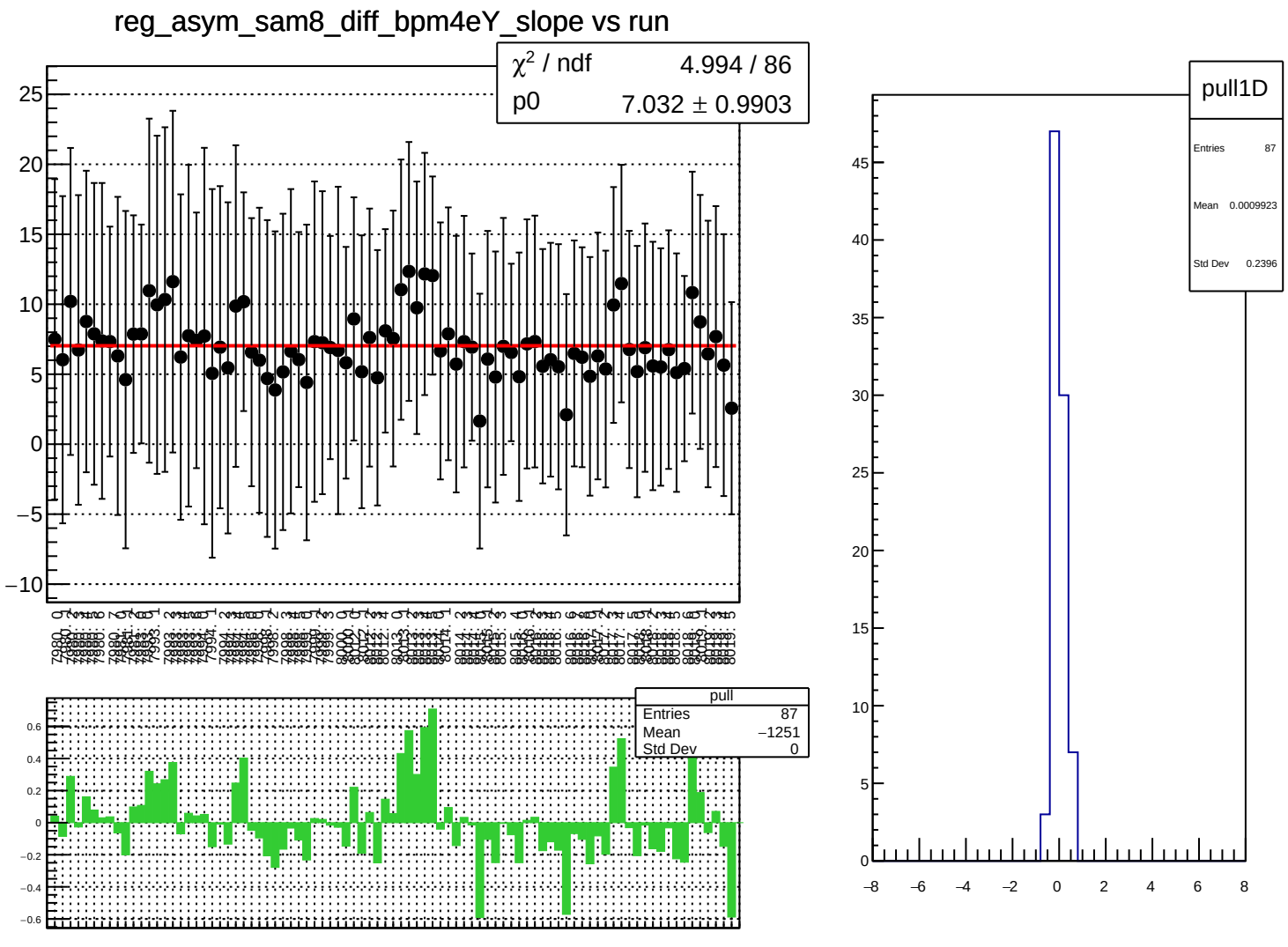

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 99.41 / 86
p0 11.41 ± 0.6183
pull
Entries 87
Mean −33.11
Std Dev 0

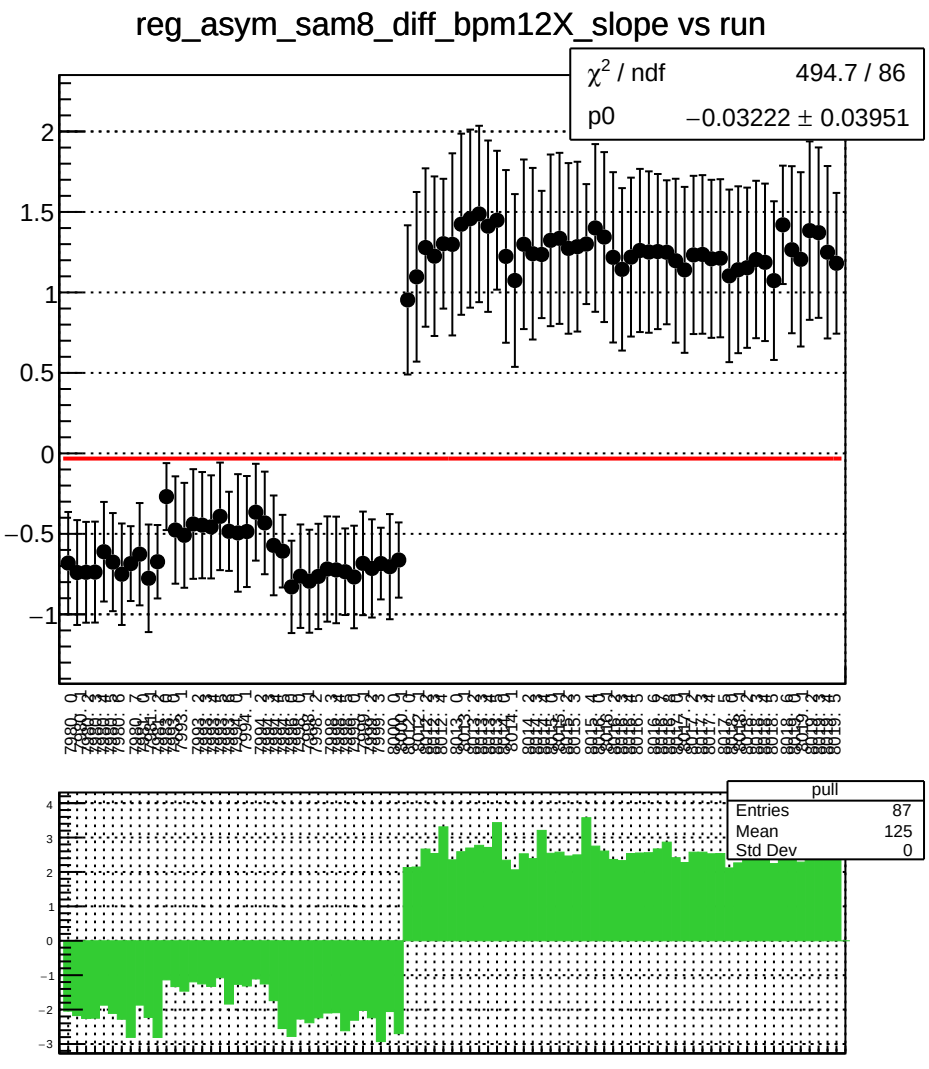

pull1D
Entries 87
Mean −0.2754
Std Dev 1.033

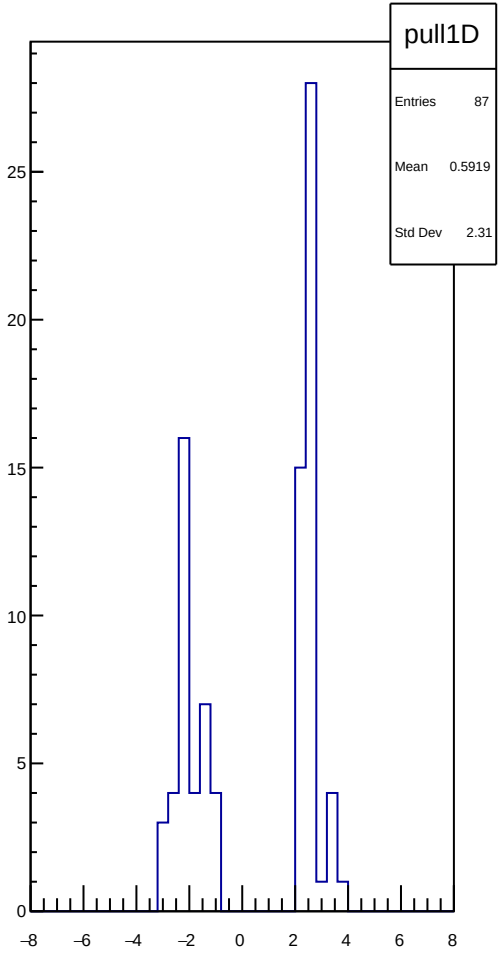

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 7.374 / 86
p0 −8.883 ± 0.913
pull
Entries 87
Mean −649.9
Std Dev 0
pull1D
Entries 87
Mean −0.005957
Std Dev 0.2911

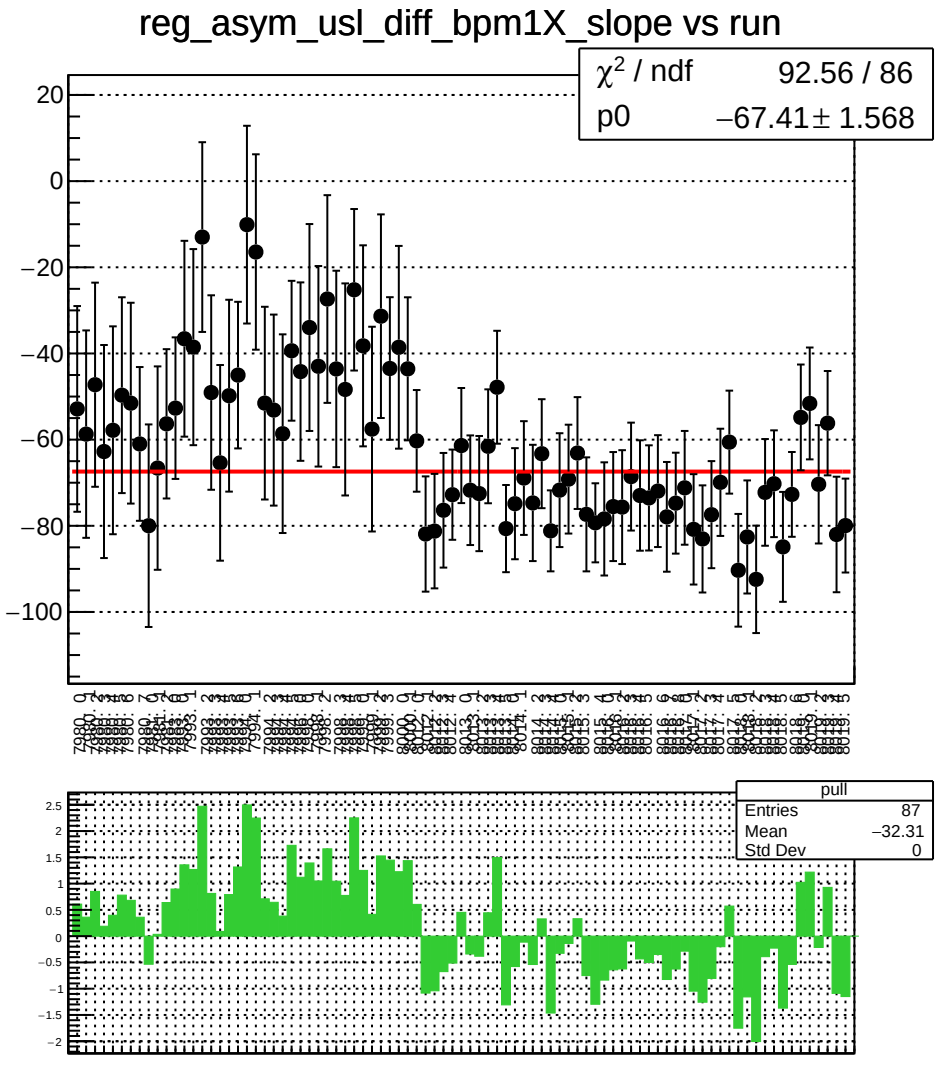

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 44.84 / 86
p0 −34.65 ± 0.6345
pull
Entries 87
Mean −66.19
Std Dev 0

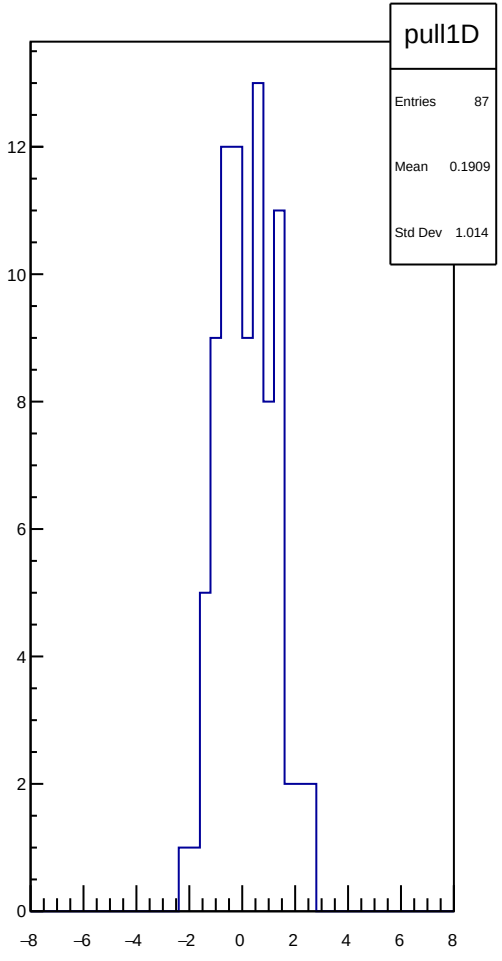

pull1D
Entries 87
Mean 0.1281
Std Dev 0.7064

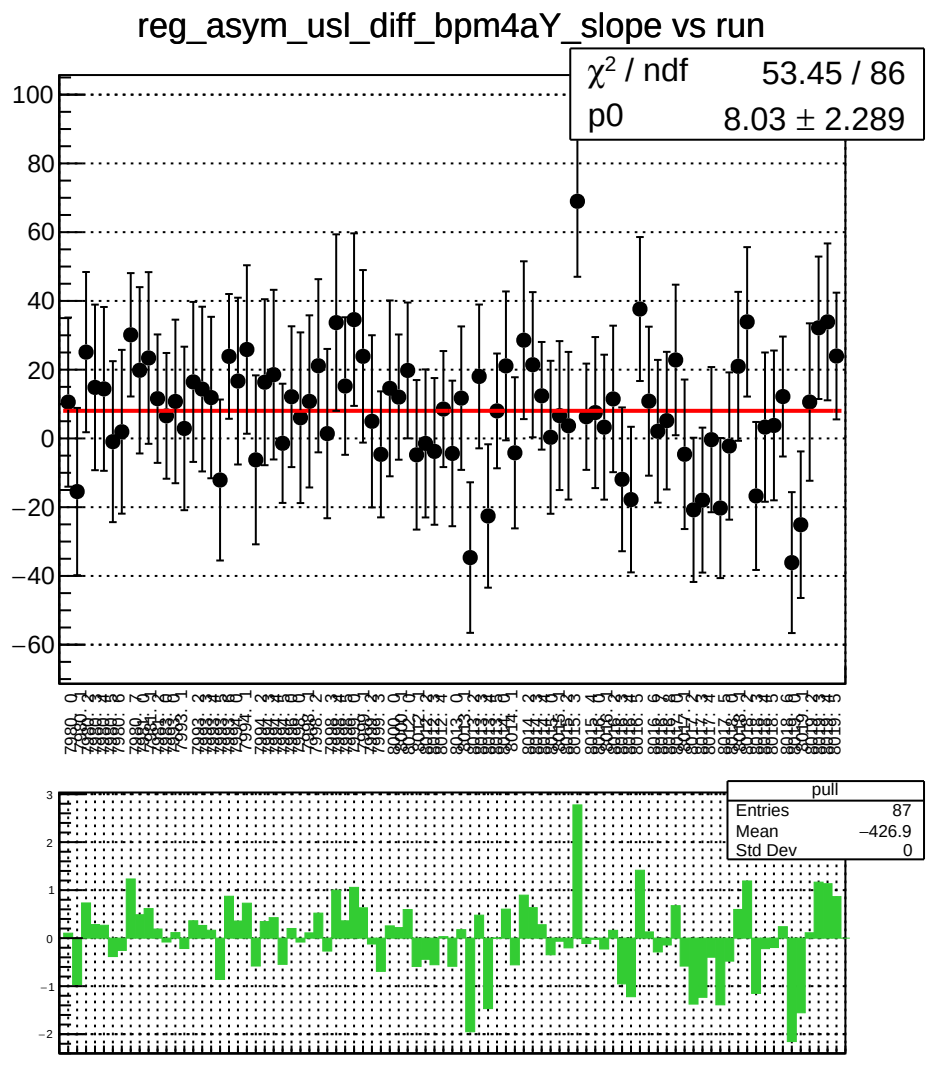

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 4.994 / 86
p0 7.032 ± 0.9903
pull
Entries 87
Mean −1251
Std Dev 0
pull1D
Entries 87
Mean 0.0009923
Std Dev 0.2396

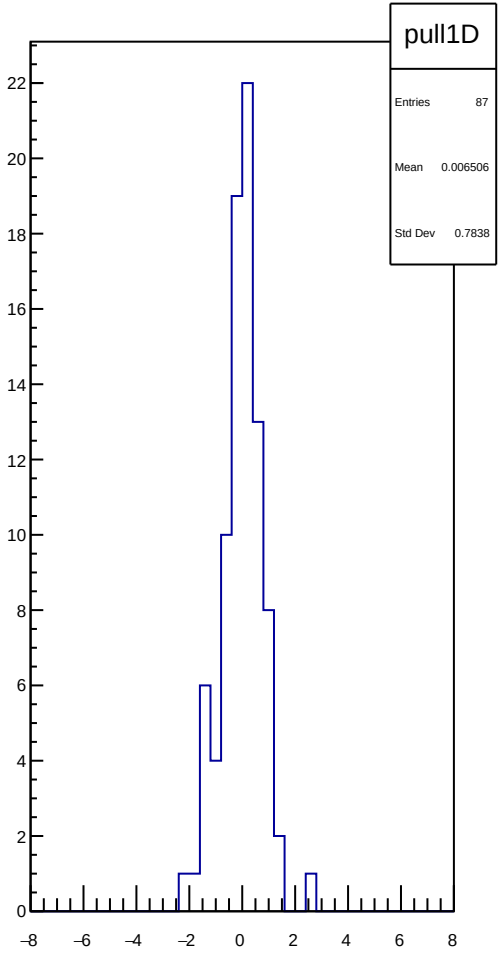

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 494.7 / 86
p0 −0.03222 ± 0.03951
pull
Entries 87
Mean 125
Std Dev 0

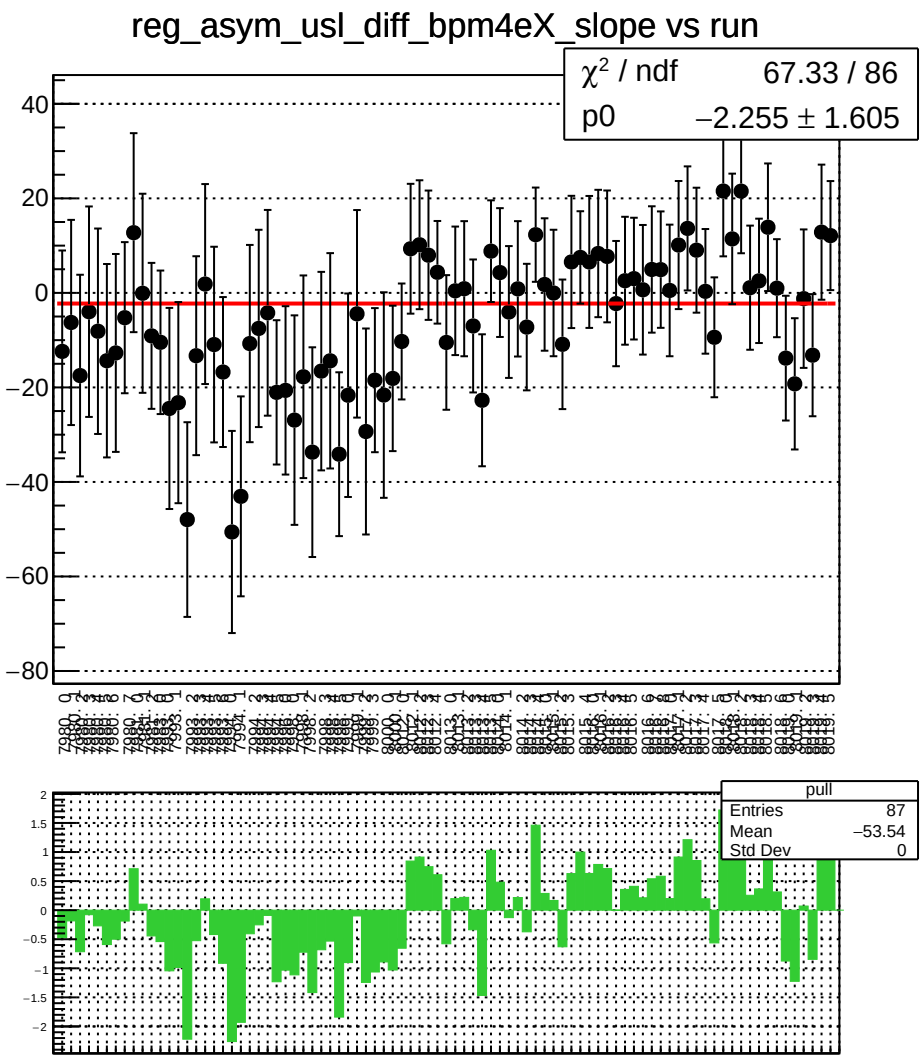

pull1D
Entries 87
Mean 0.5919
Std Dev 2.31

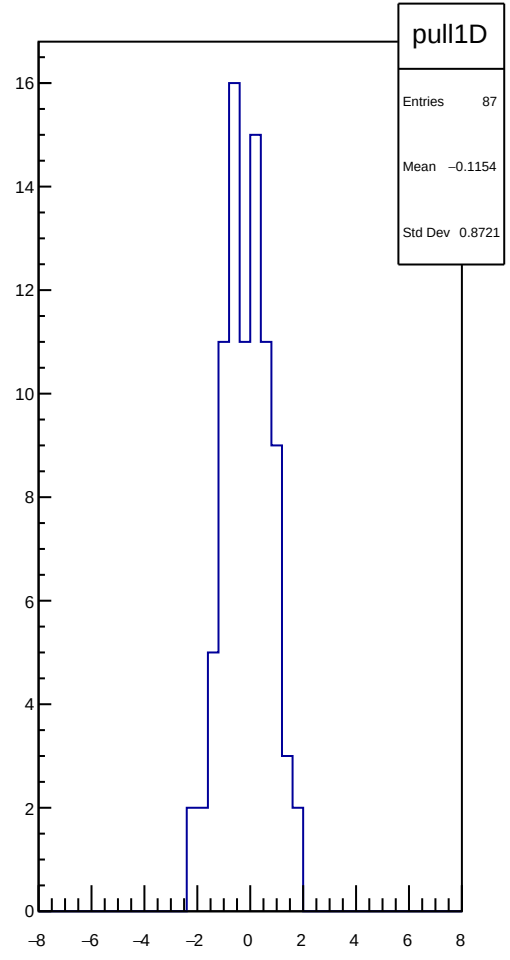

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 92.56 / 86
p0 −67.41 ± 1.568
pull
Entries 87
Mean −32.31
Std Dev 0

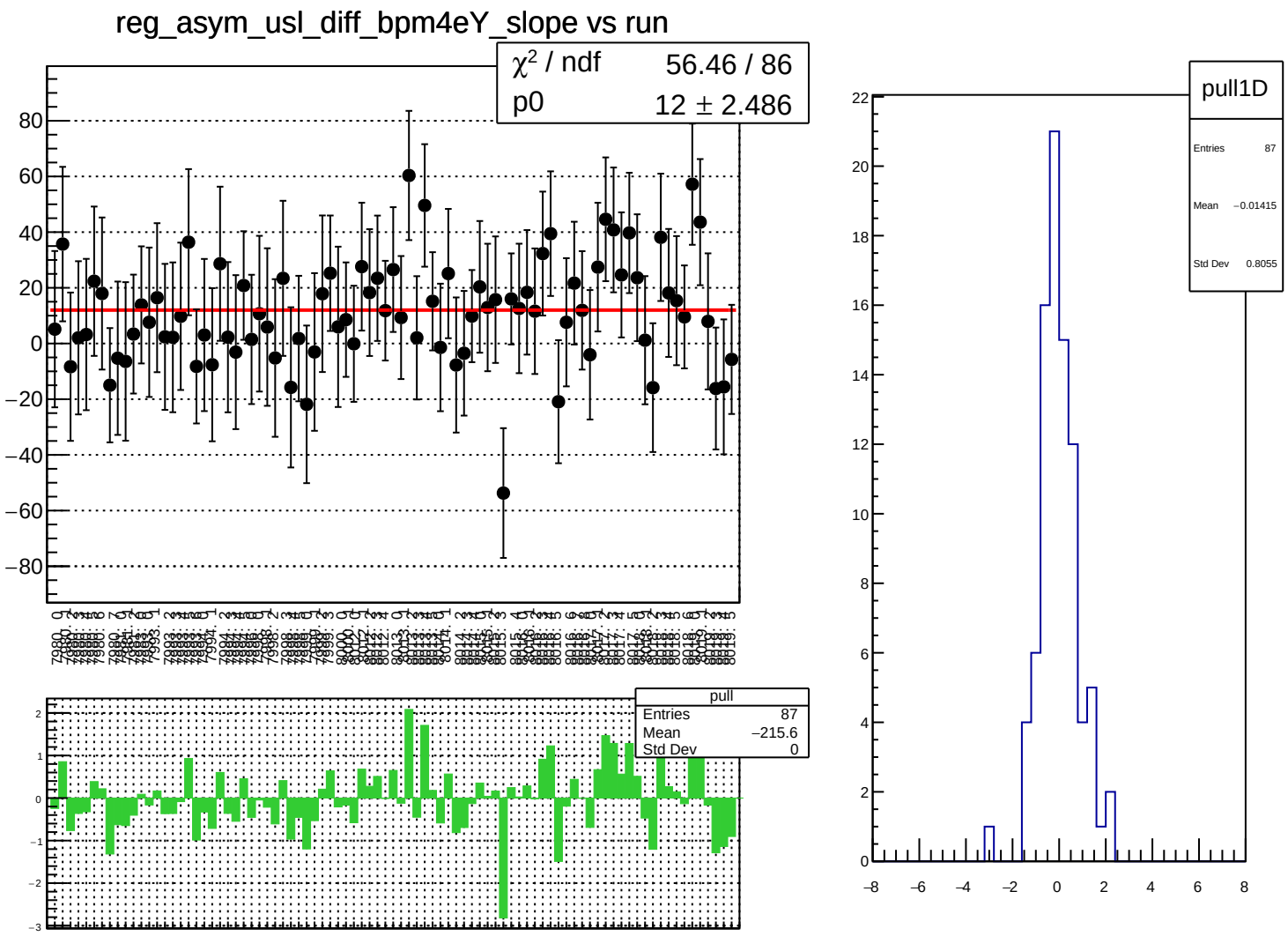

pull1D
Entries 87
Mean 0.1909
Std Dev 1.014

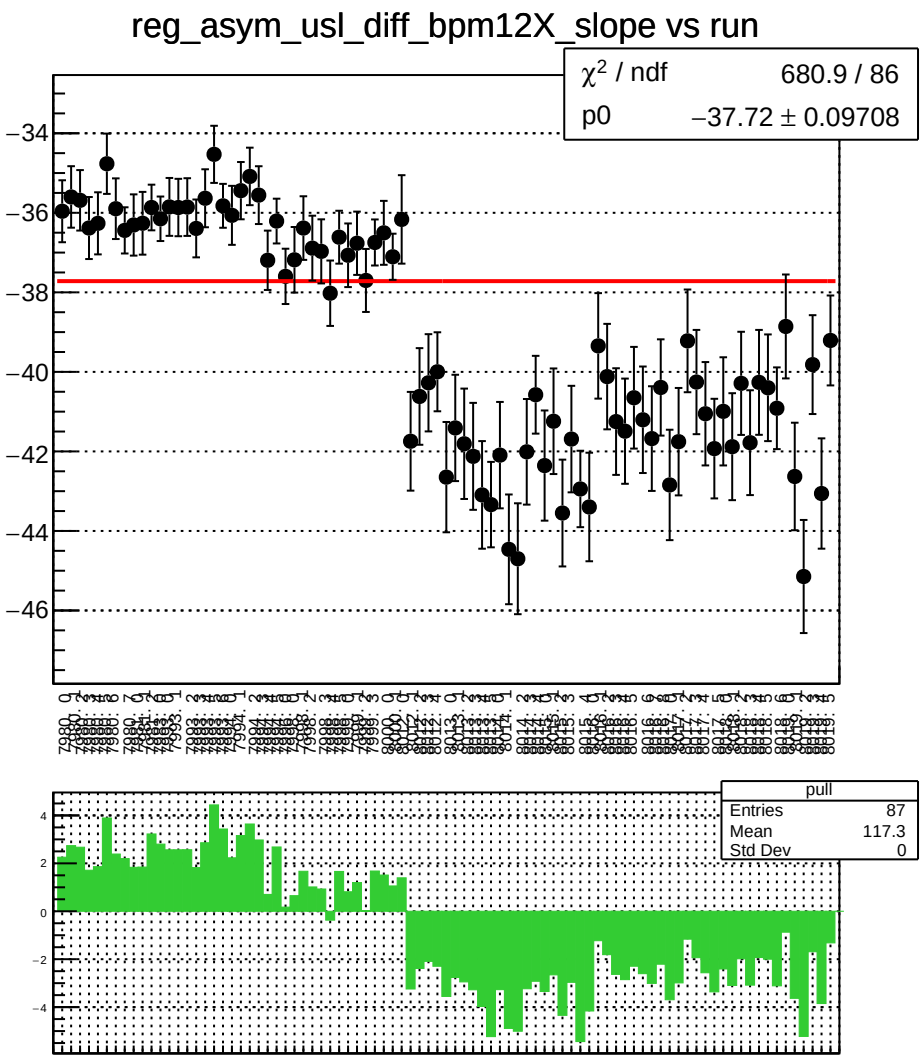

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 53.45 / 86
p0 8.03 ± 2.289
pull
Entries 87
Mean −426.9
Std Dev 0

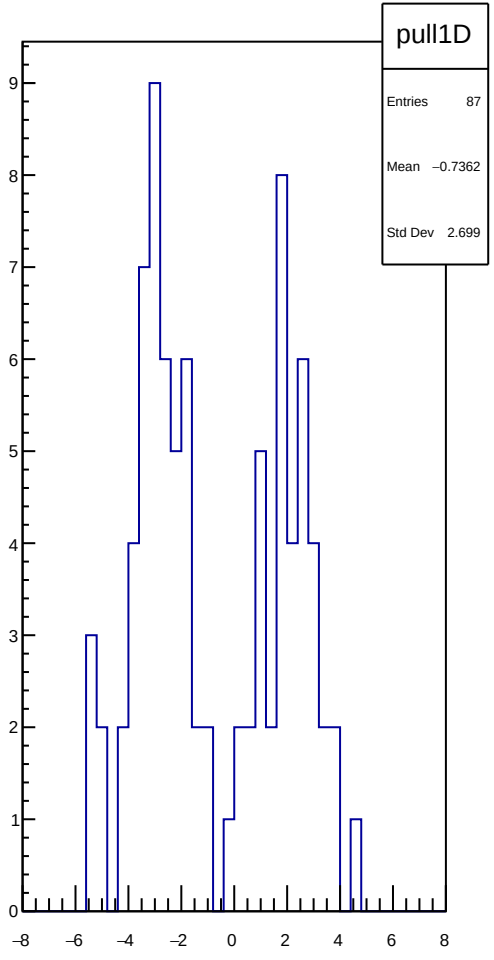

pull1D
Entries 87
Mean 0.006506
Std Dev 0.7838

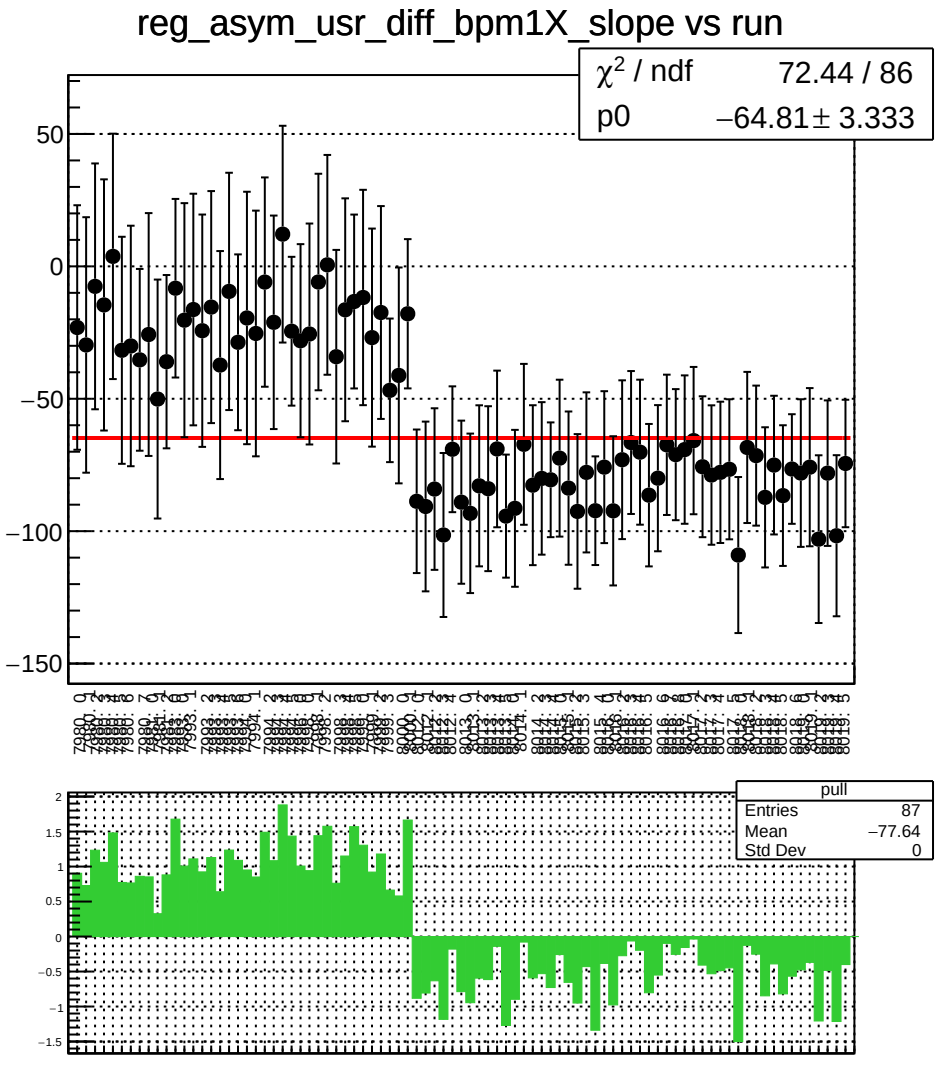

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 67.33 / 86
p0 −2.255 ± 1.605
pull
Entries 87
Mean −53.54
Std Dev 0

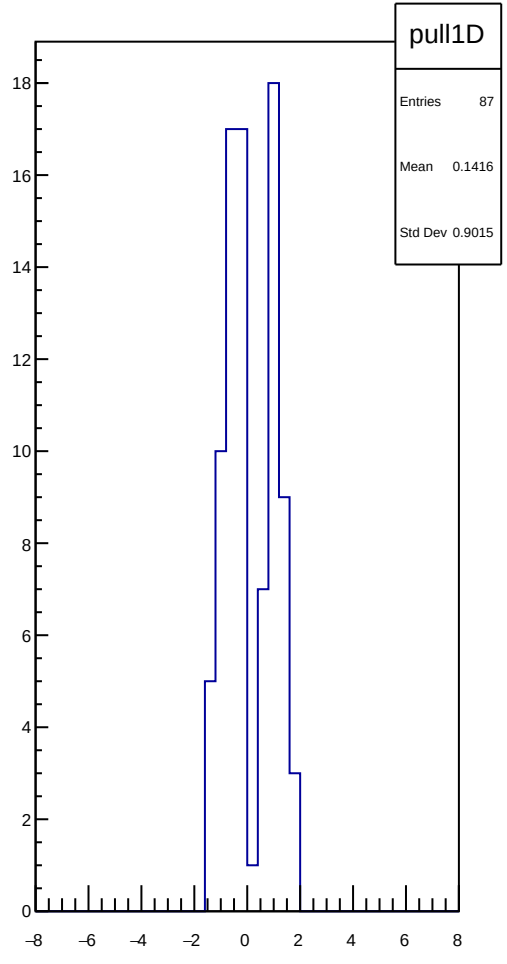

pull1D
Entries 87
Mean −0.1154
Std Dev 0.8721

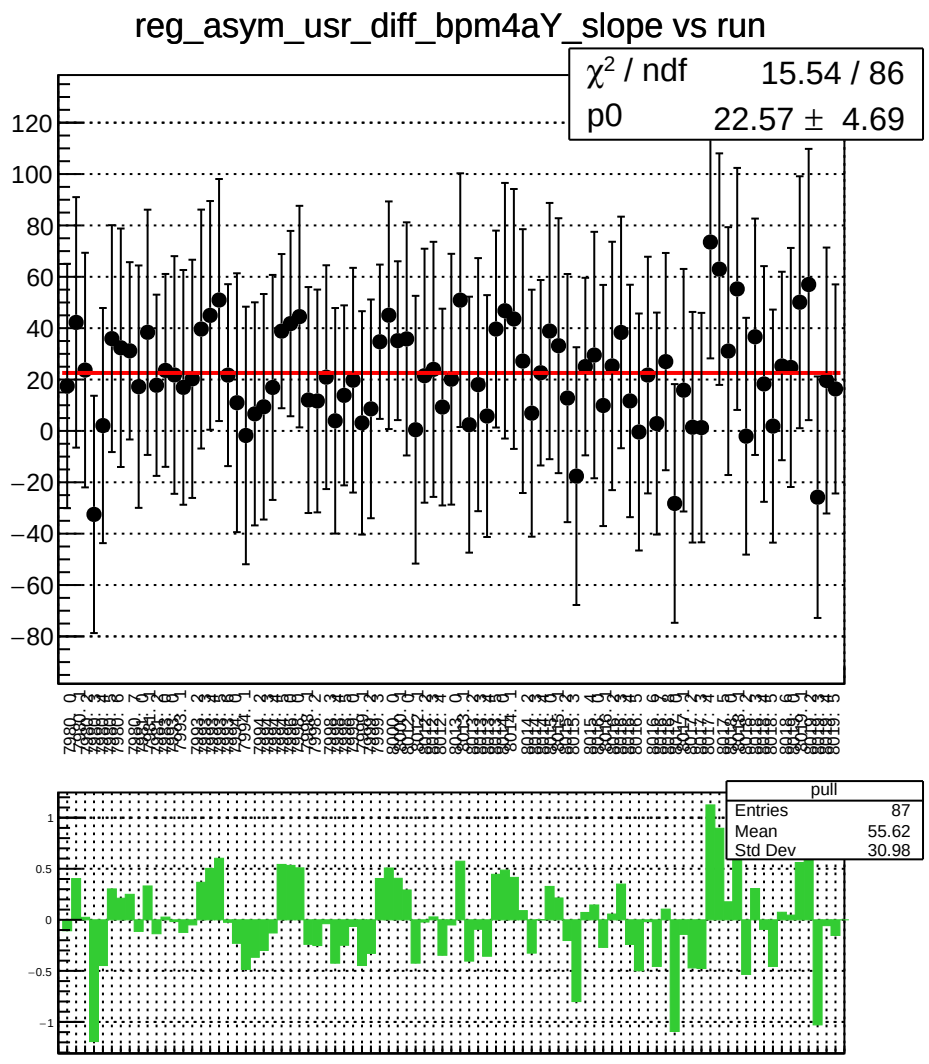

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 56.46 / 86
p0 12 ± 2.486
pull
Entries 87
Mean −215.6
Std Dev 0
pull1D
Entries 87
Mean −0.01415
Std Dev 0.8055

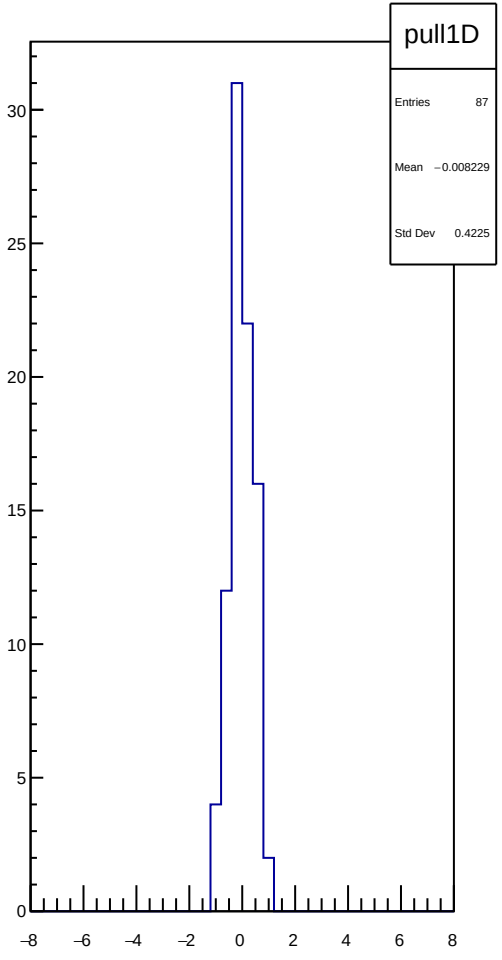

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 680.9 / 86
p0 −37.72 ± 0.09708
−34
−36
−38
−40
−42
−44
−46
pull
Entries 87
Mean 117.3
Std Dev 0
4
2
0
−2
−4

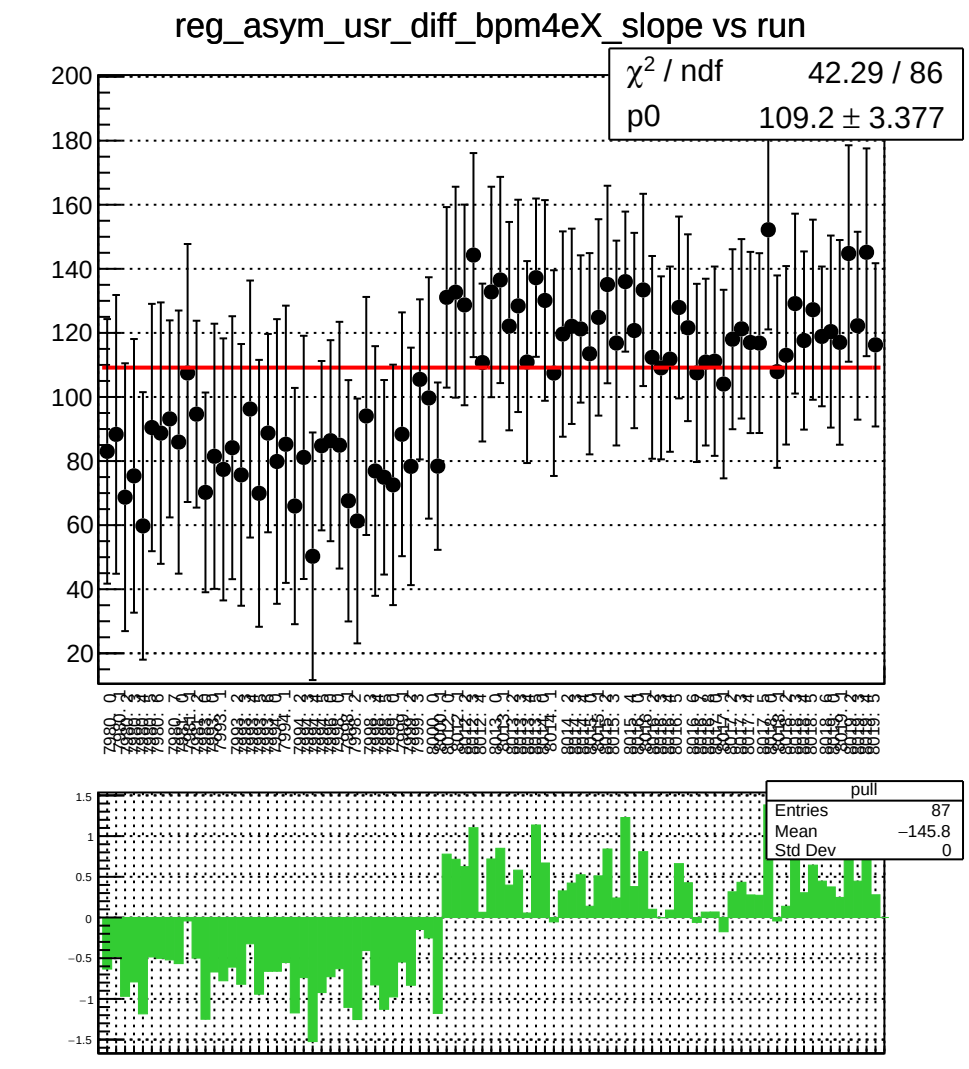

pull1D
Entries 87
Mean −0.7362
Std Dev 2.699
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

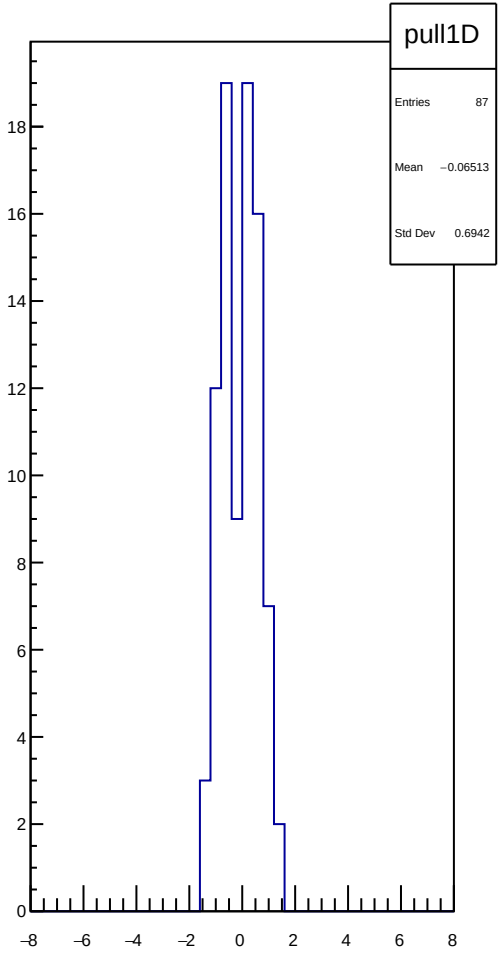

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 72.44 / 86
p0 −64.81 ± 3.333
50
0
−50
−100
−150
pull
Entries 87
Mean −77.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

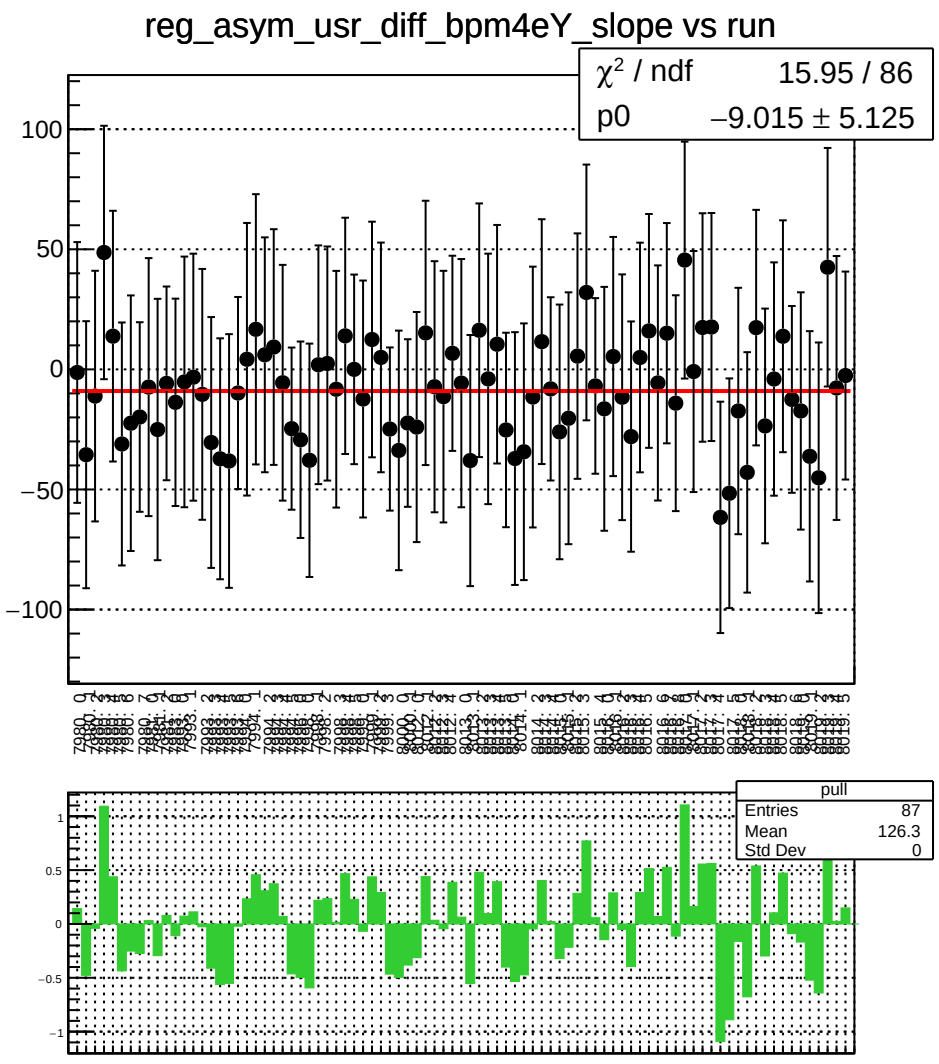

pull1D
Entries 87
Mean 0.1416
Std Dev 0.9015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

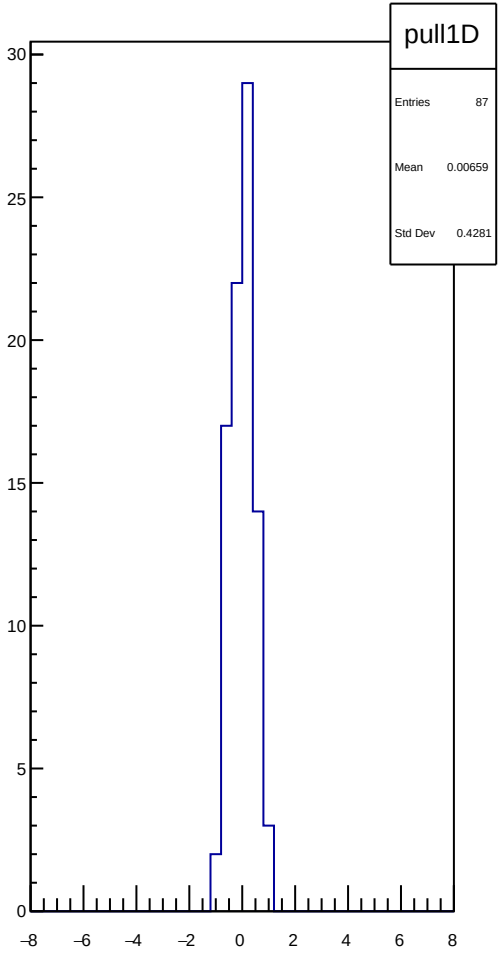

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 15.54 / 86
p0 22.57 ± 4.69
pull
Entries 87
Mean 55.62
Std Dev 30.98

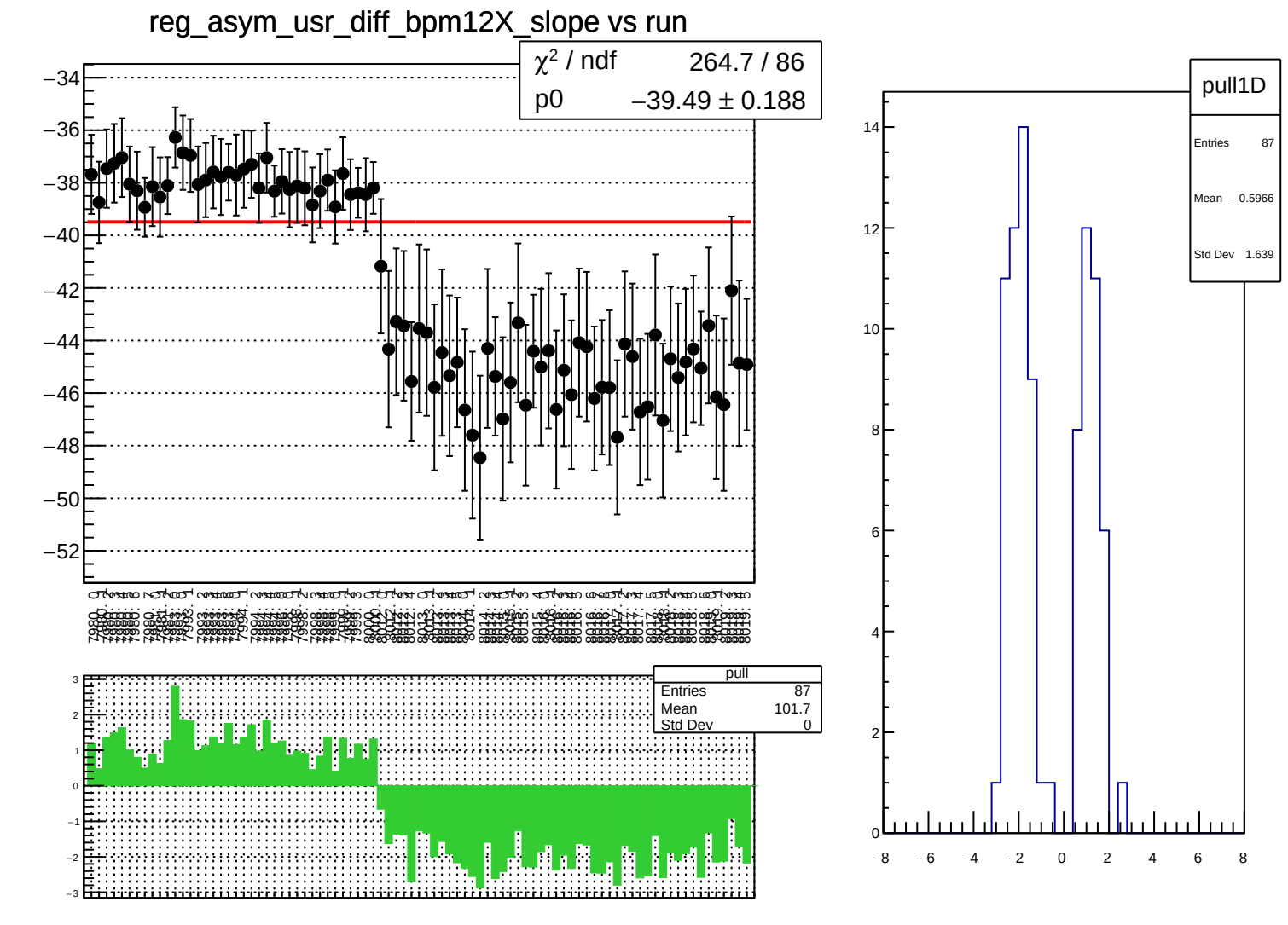

pull1D
Entries 87
Mean −0.008229
Std Dev 0.4225

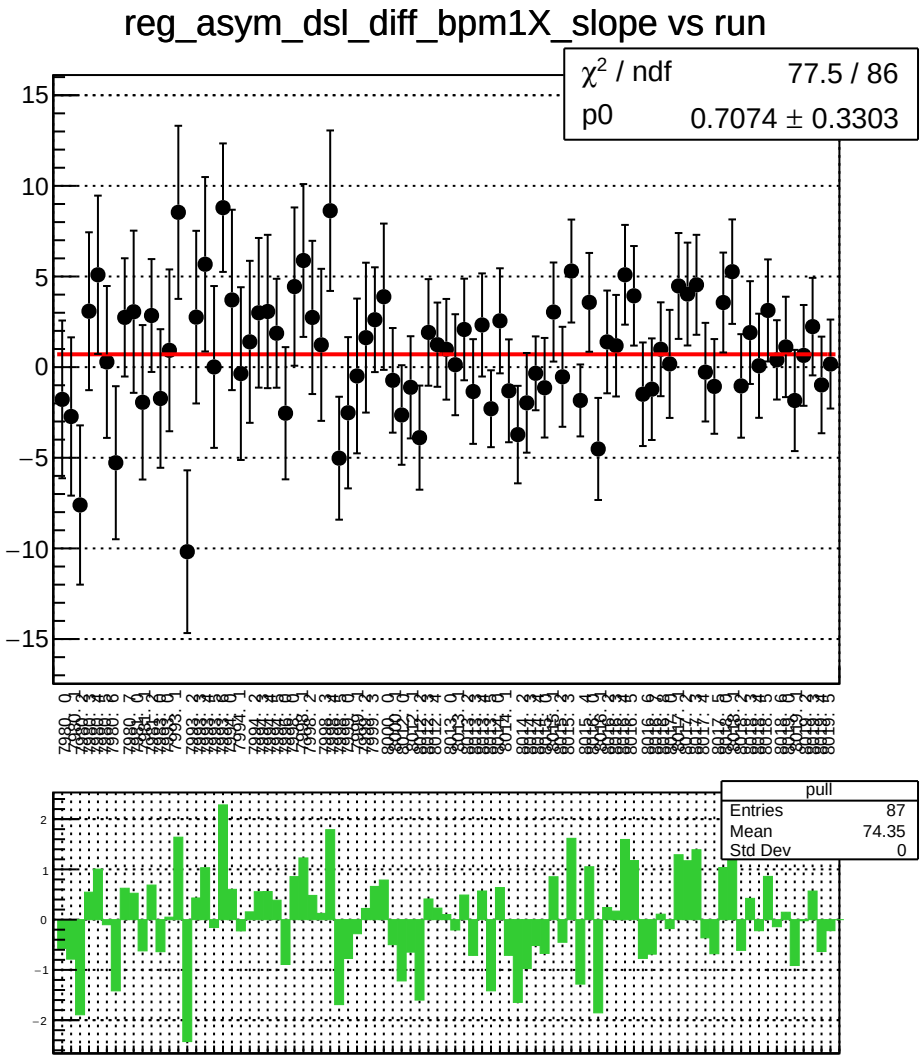

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 42.29 / 86
p0 109.2 ± 3.377
pull
Entries 87
Mean −145.8
Std Dev 0

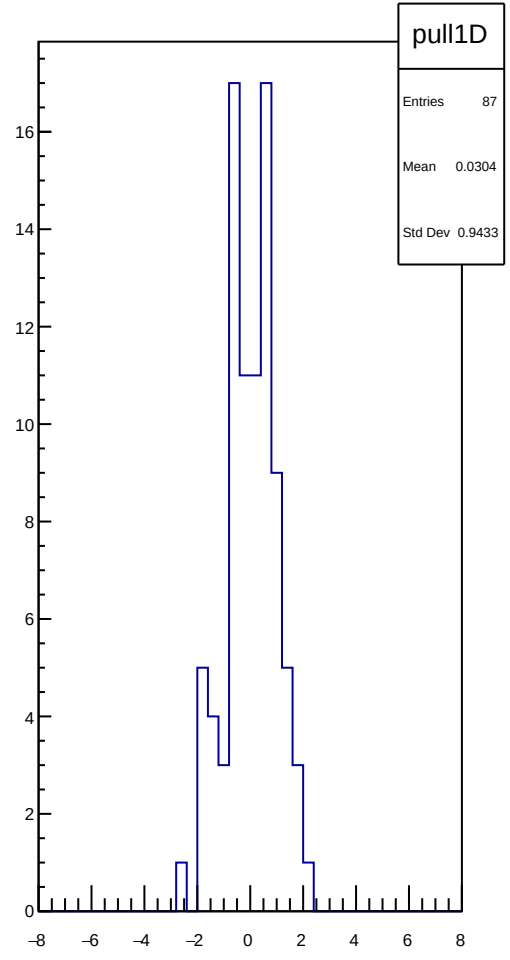

pull1D
Entries 87
Mean −0.06513
Std Dev 0.6942

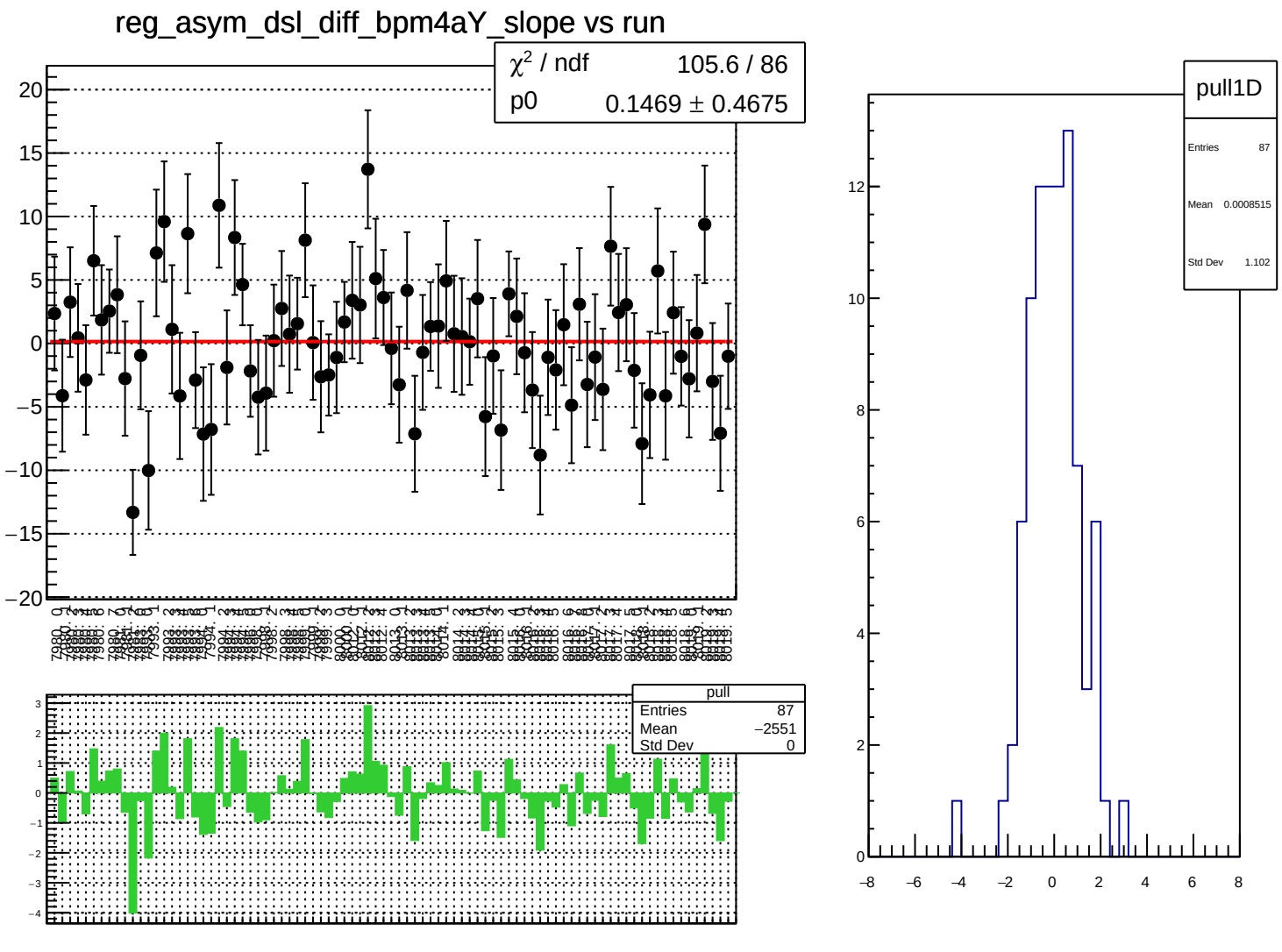

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 15.95 / 86
p0 −9.015 ± 5.125
100
50
0
−50
−100
pull
Entries 87
Mean 126.3
Std Dev 0
1
0.5
0
−0.5
−1

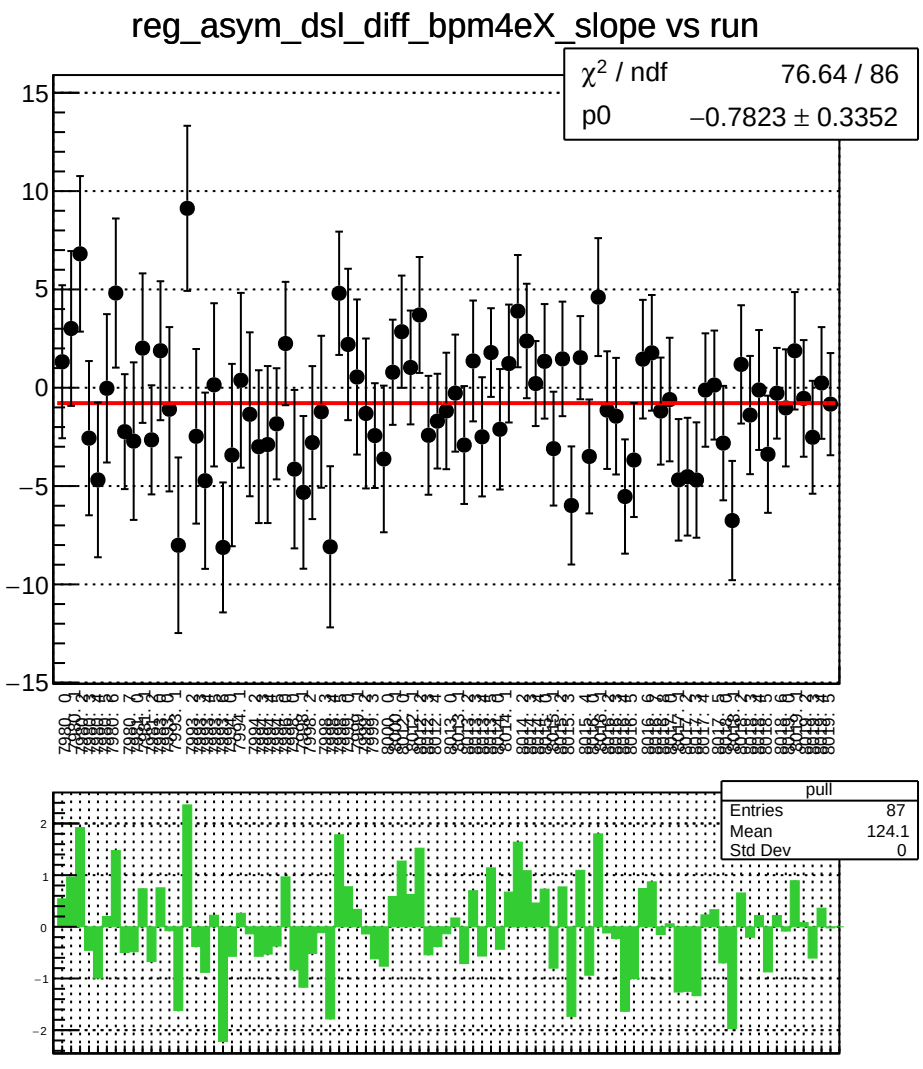

pull1D
Entries 87
Mean 0.00659
Std Dev 0.4281
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

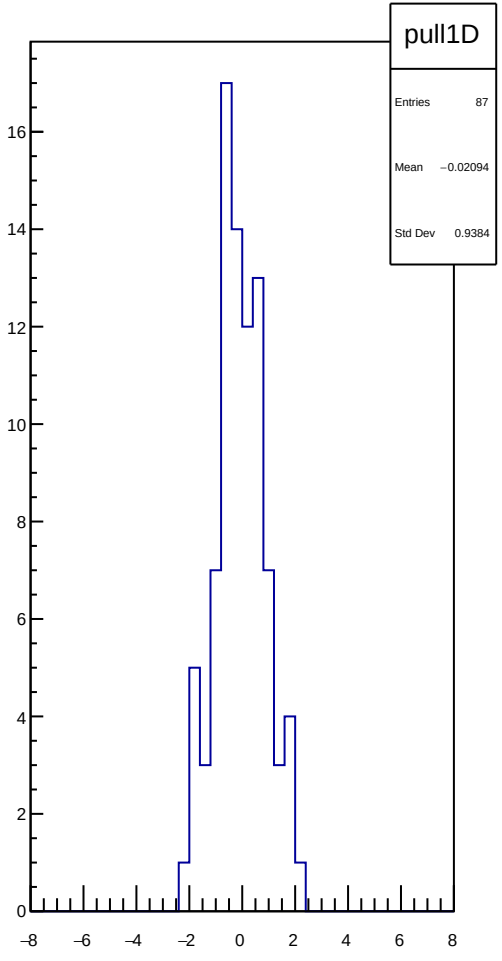

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 264.7 / 86
p0 −39.49 ± 0.188
pull
Entries 87
Mean 101.7
Std Dev 0
pull1D
Entries 87
Mean −0.5966
Std Dev 1.639

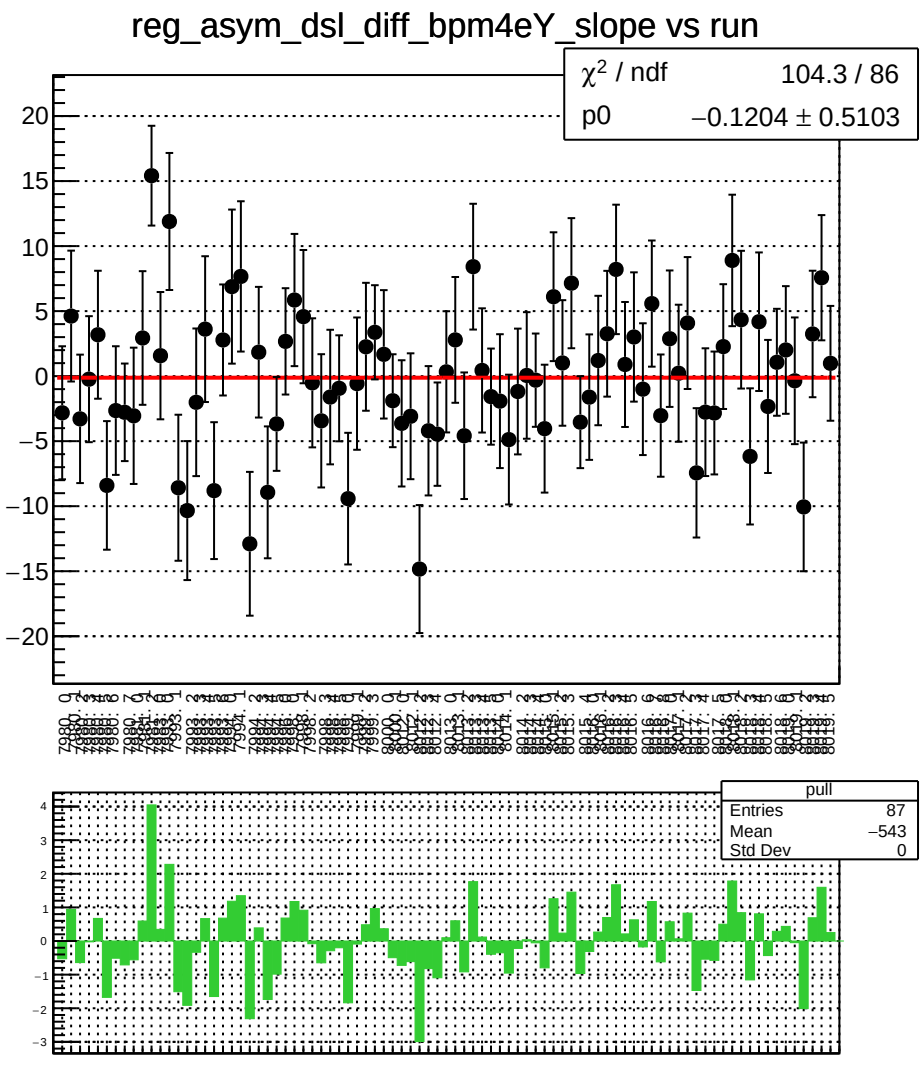

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 77.5 / 86
p0 0.7074 ± 0.3303
pull
Entries 87
Mean 74.35
Std Dev 0

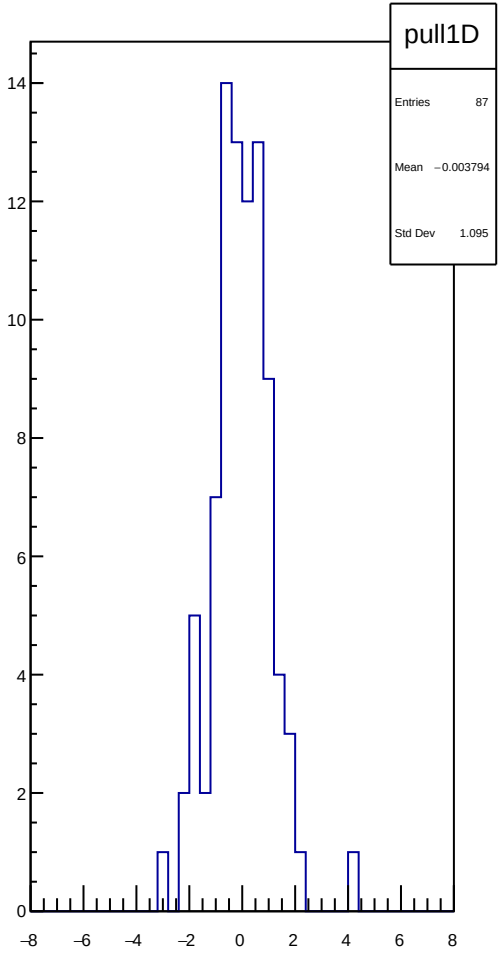

pull1D
Entries 87
Mean 0.0304
Std Dev 0.9433

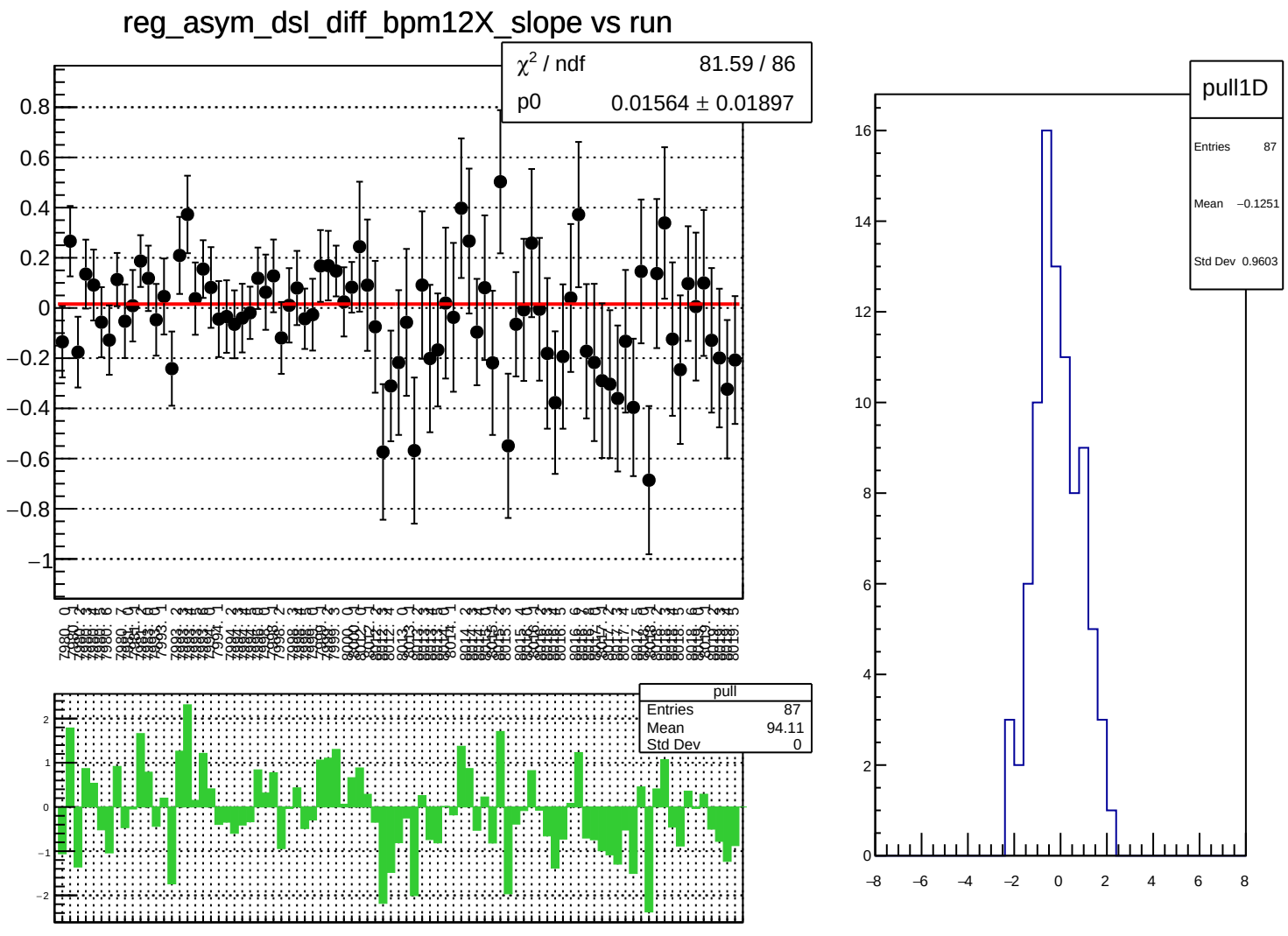

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 105.6 / 86
p0 0.1469 ± 0.4675
pull
Entries 87
Mean −2551
Std Dev 0
pull1D
Entries 87
Mean 0.0008515
Std Dev 1.102

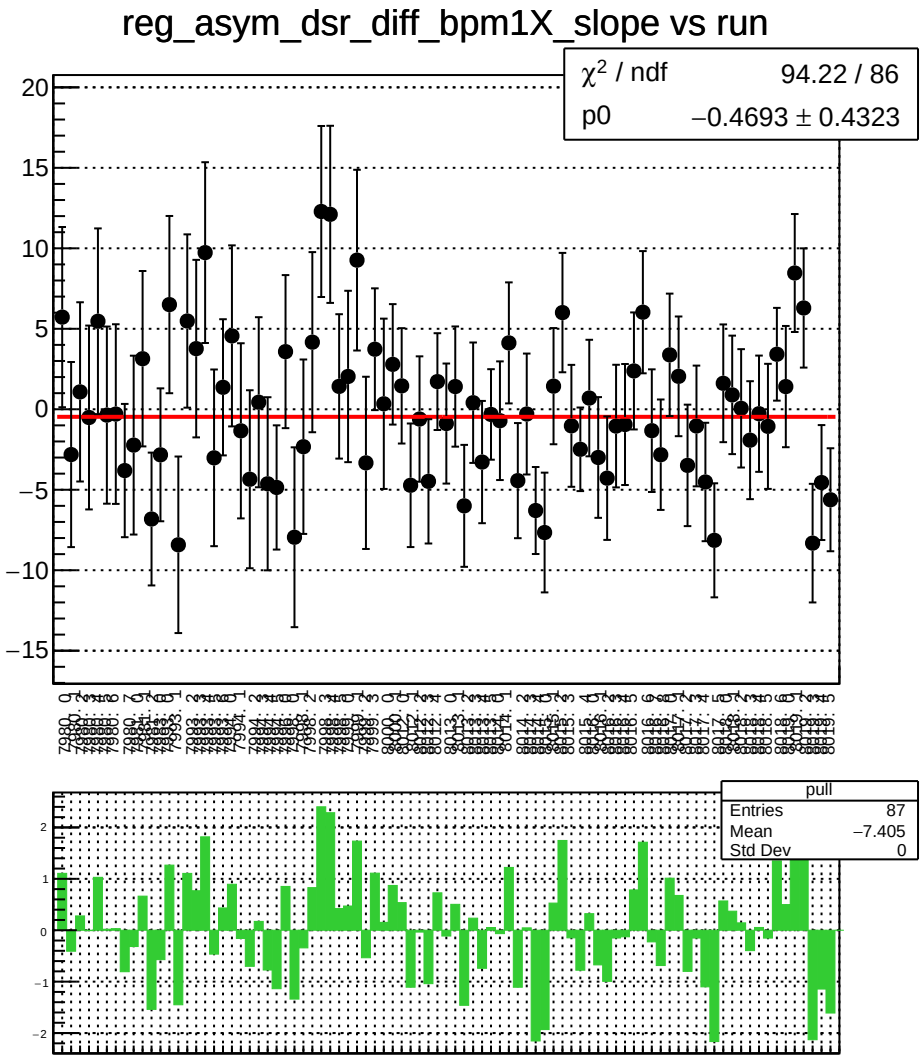

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 76.64 / 86
p0 −0.7823 ± 0.3352
pull
Entries 87
Mean 124.1
Std Dev 0

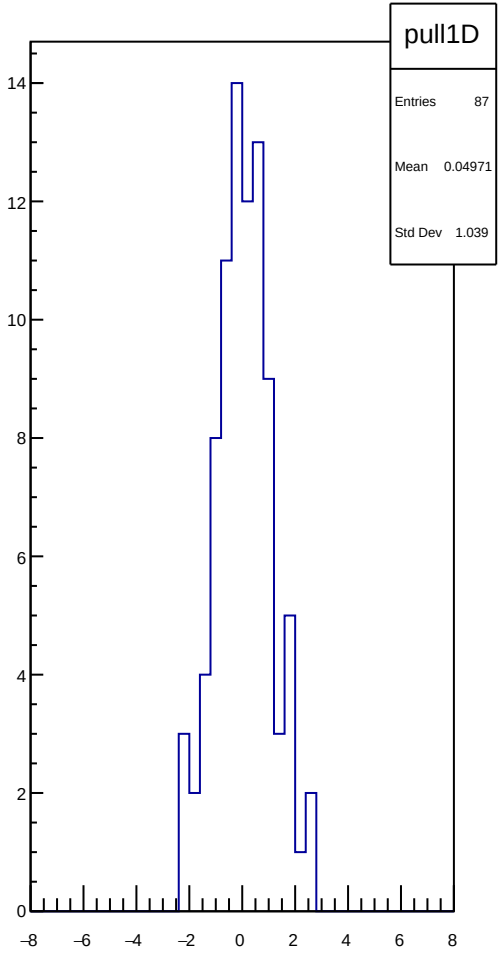

pull1D
Entries 87
Mean −0.02094
Std Dev 0.9384

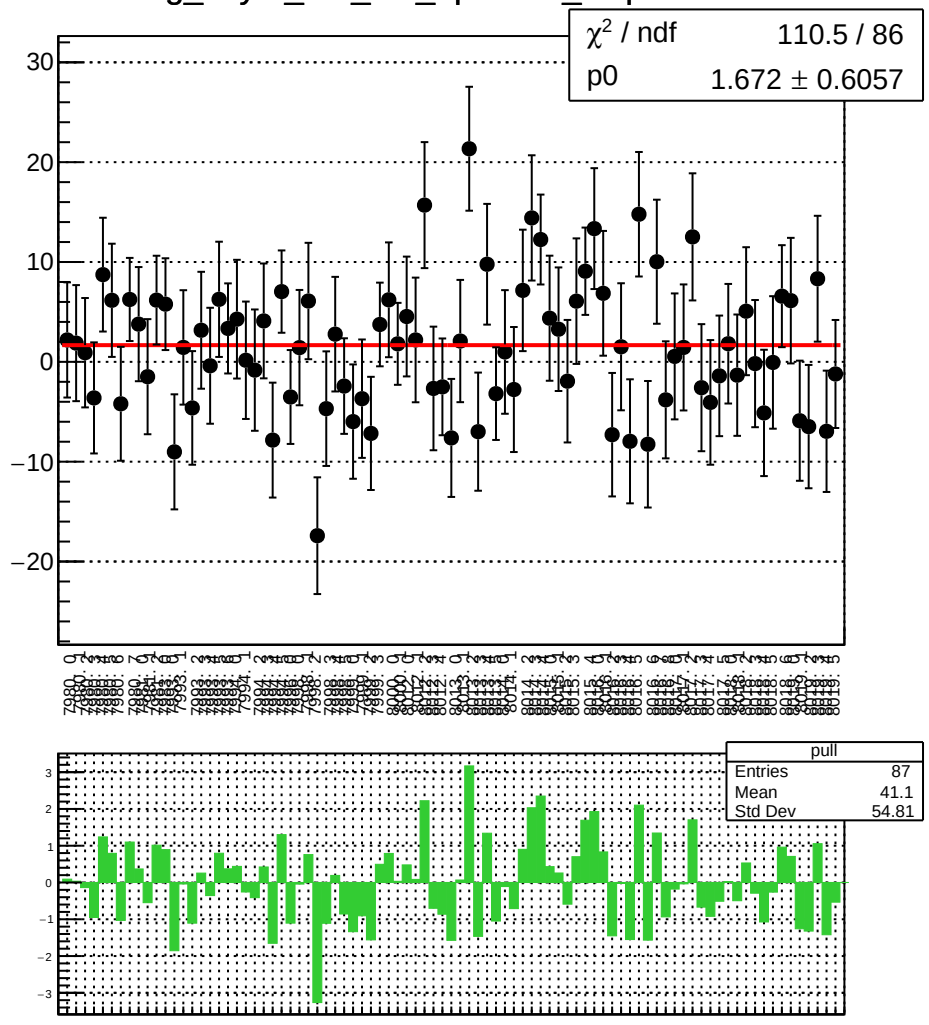

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 104.3 / 86
p0 −0.1204 ± 0.5103
pull
Entries 87
Mean −543
Std Dev 0

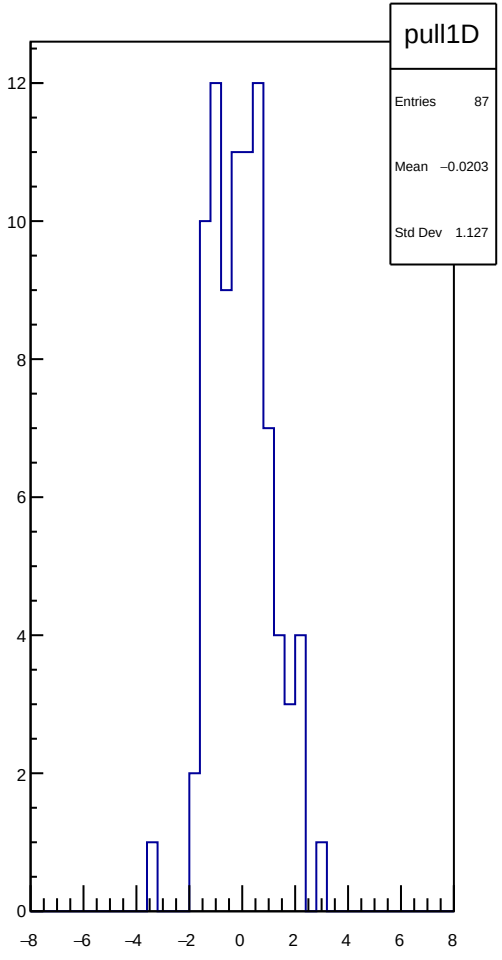

pull1D
Entries 87
Mean −0.003794
Std Dev 1.095

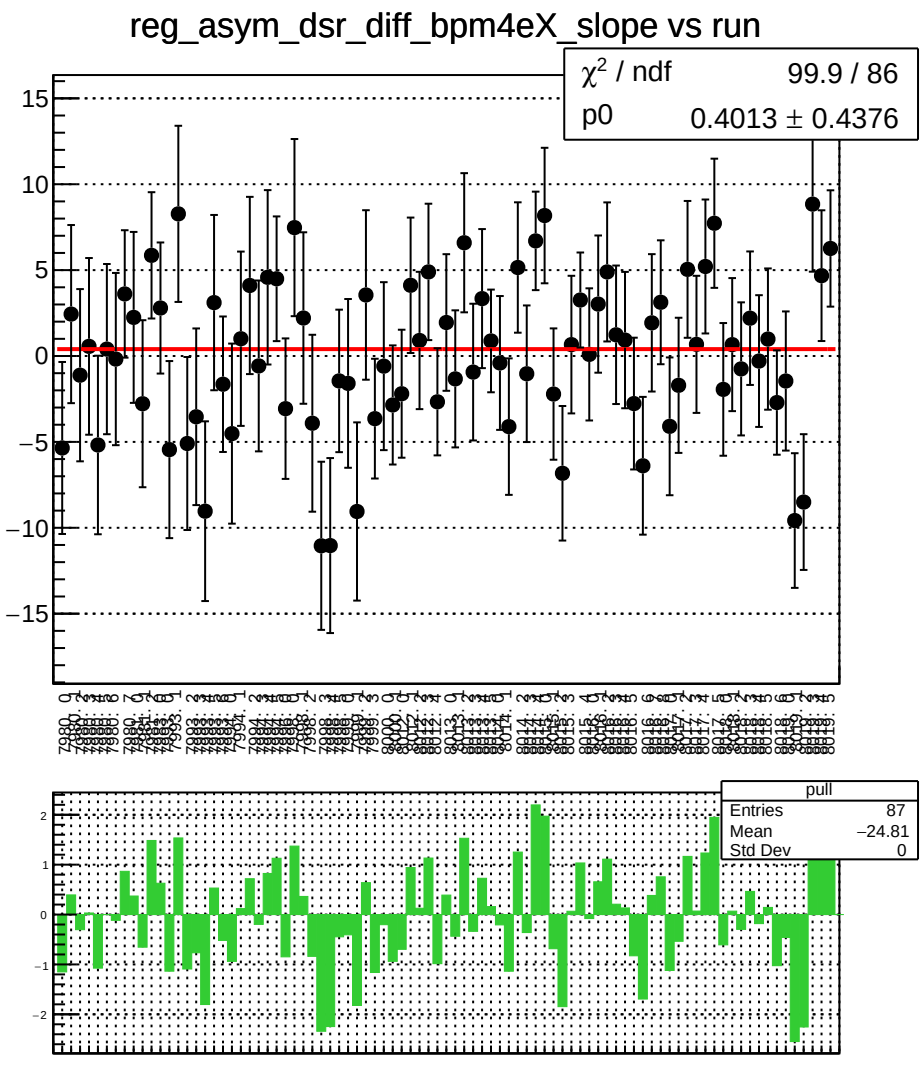

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 81.59 / 86
p0 0.01564 ± 0.01897
pull
Entries 87
Mean 94.11
Std Dev 0
pull1D
Entries 87
Mean −0.1251
Std Dev 0.9603

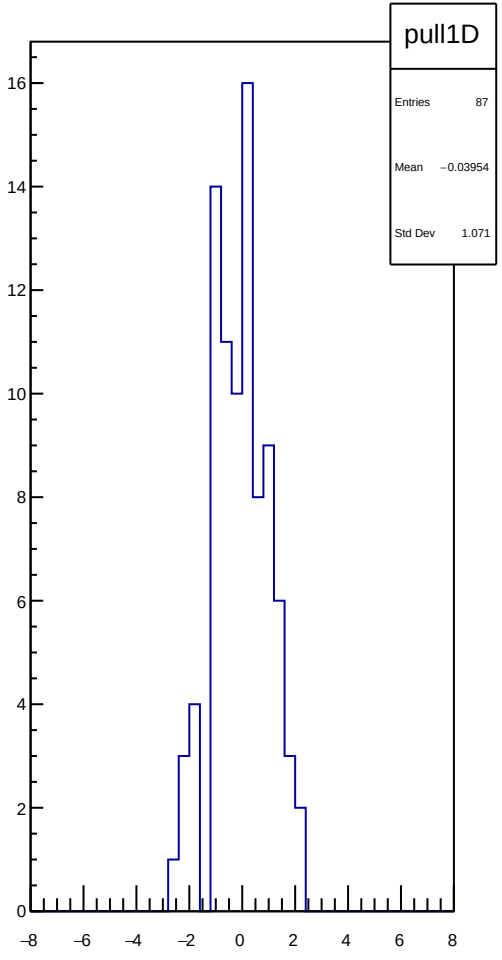

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 94.22 / 86
p0 −0.4693 ± 0.4323
pull
Entries 87
Mean −7.405
Std Dev 0

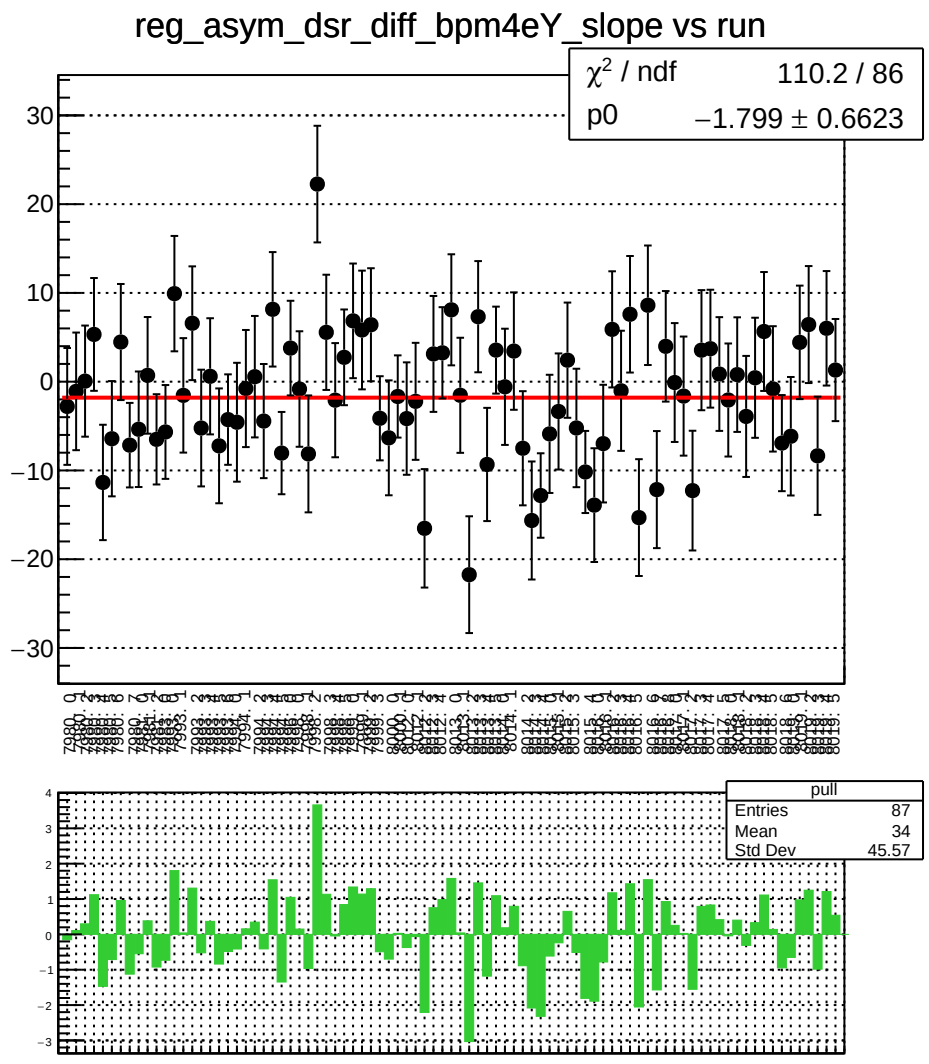

pull1D
Entries 87
Mean 0.04971
Std Dev 1.039

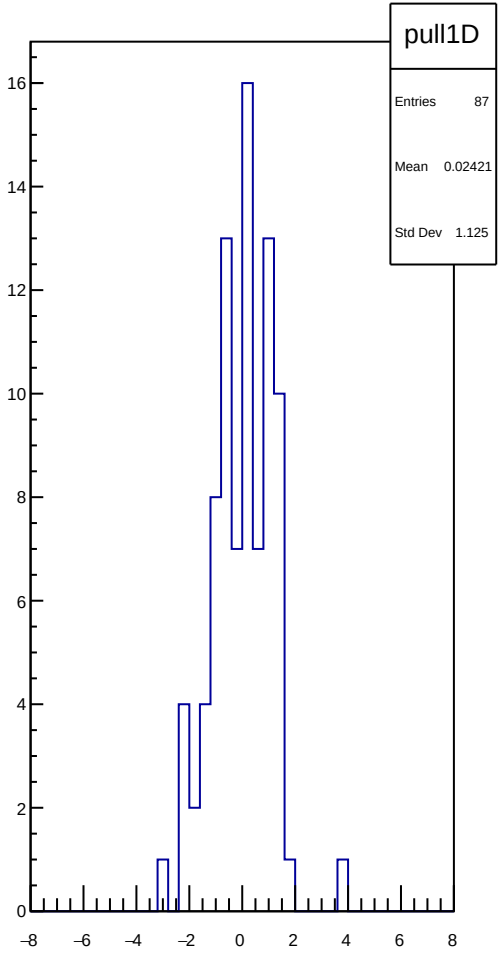

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 110.5 / 86
p0 1.672 ± 0.6057
pull
Entries 87
Mean 41.1
Std Dev 54.81

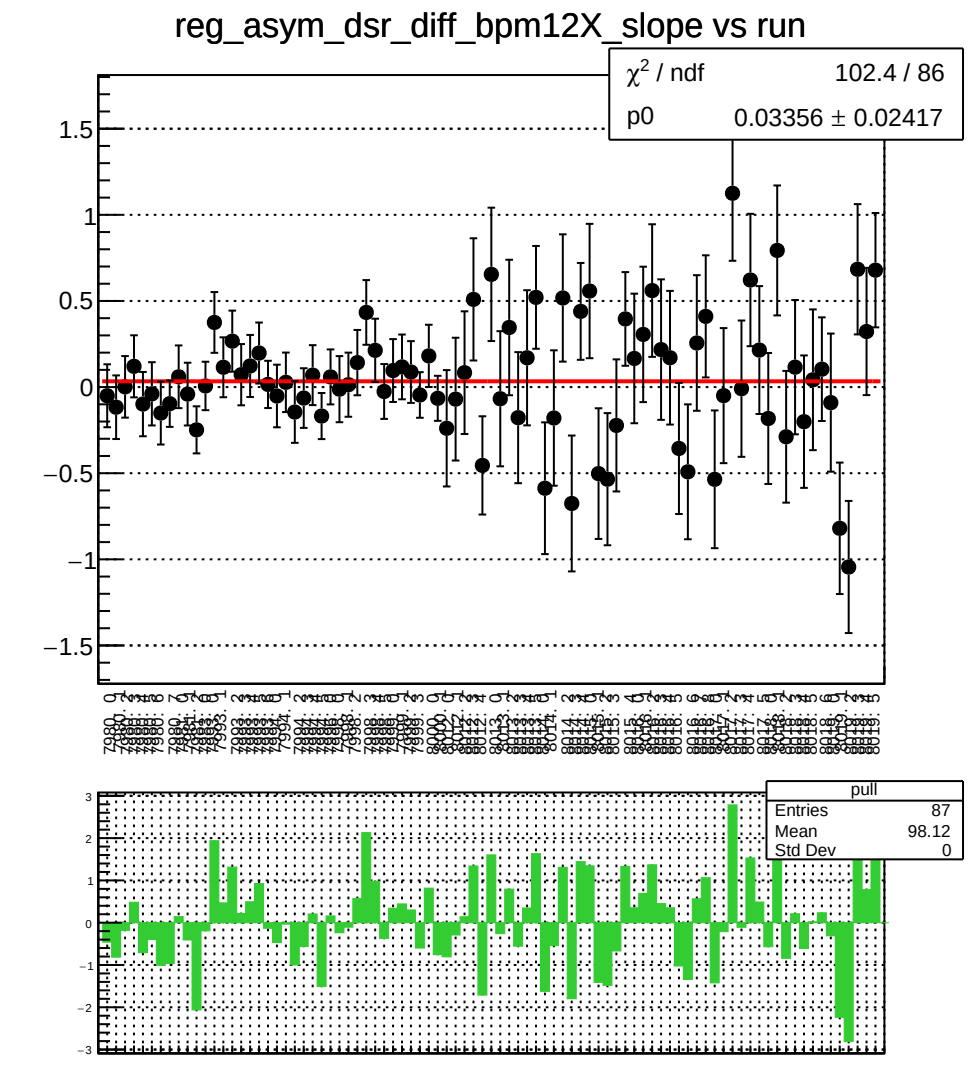

pull1D
Entries 87
Mean −0.0203
Std Dev 1.127

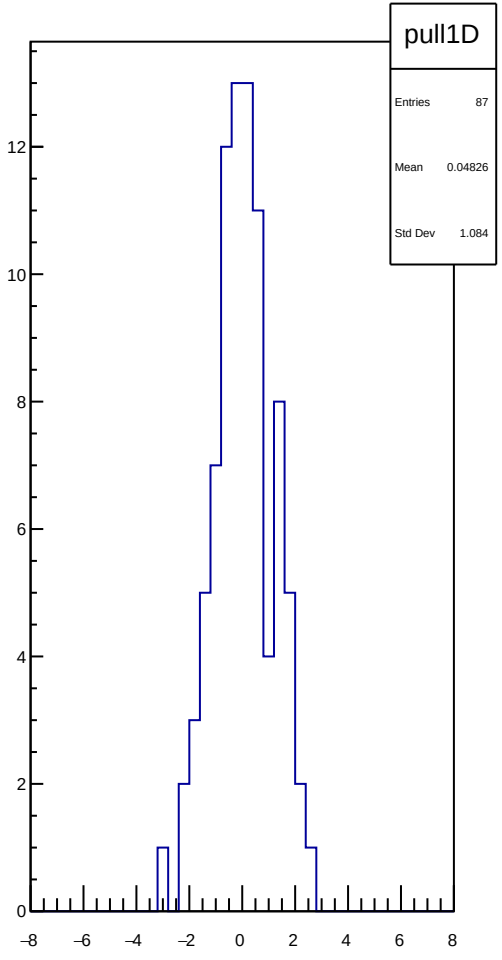

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 99.9 / 86
p0 0.4013 ± 0.4376
pull
Entries 87
Mean −24.81
Std Dev 0

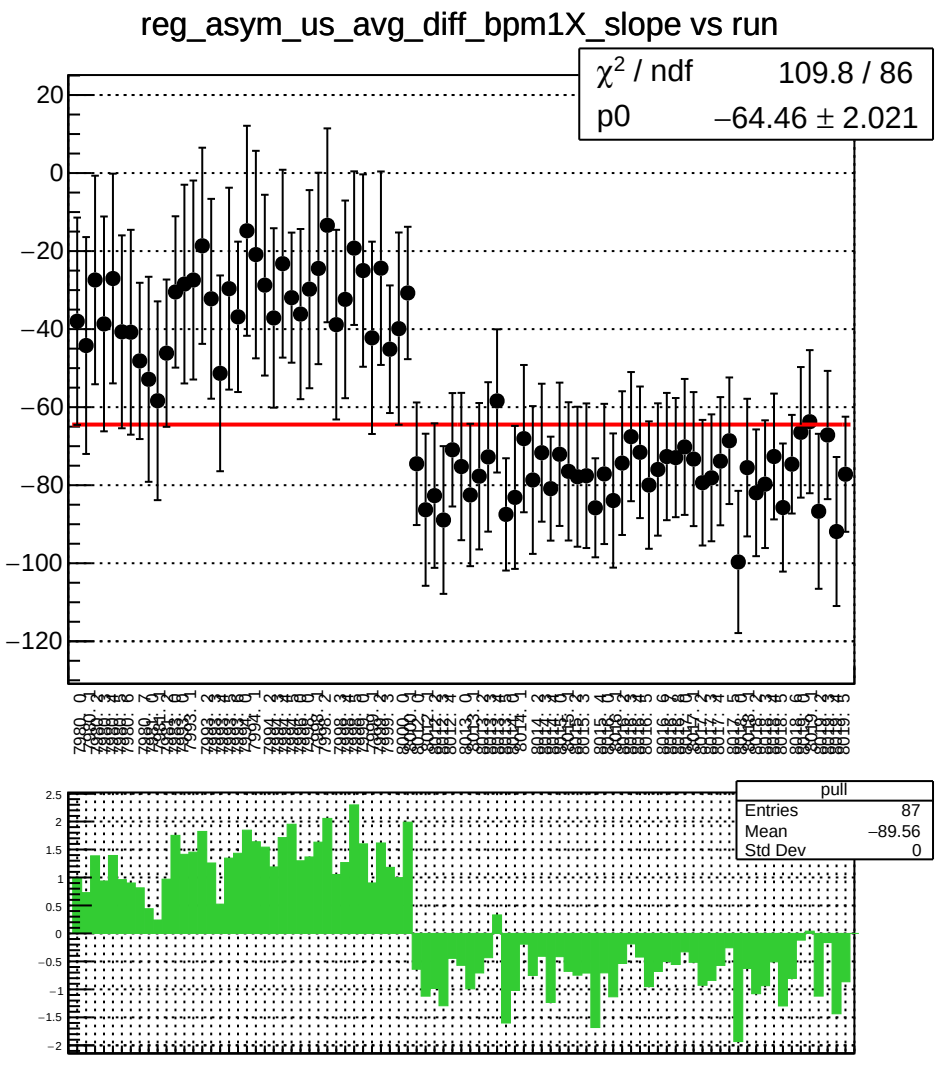

pull1D
Entries 87
Mean −0.03954
Std Dev 1.071

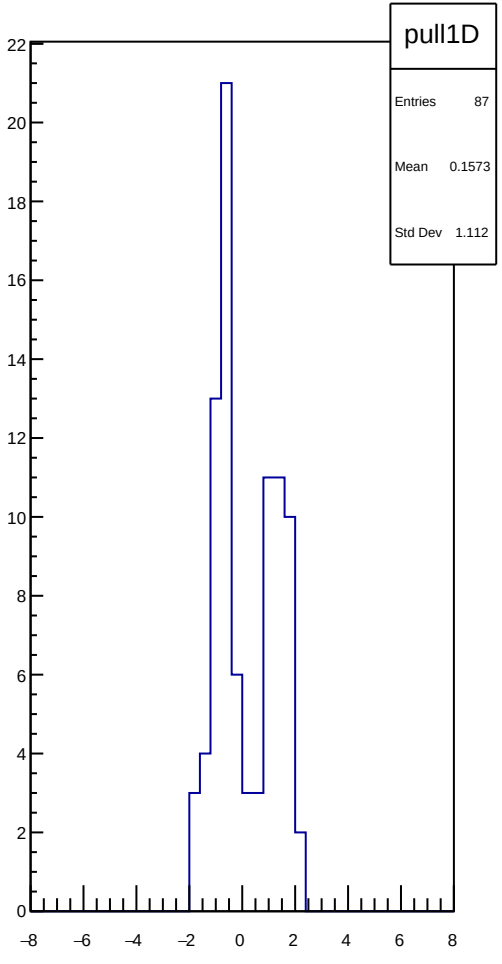

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 110.2 / 86
p0 −1.799 ± 0.6623
pull
Entries 87
Mean 34
Std Dev 45.57

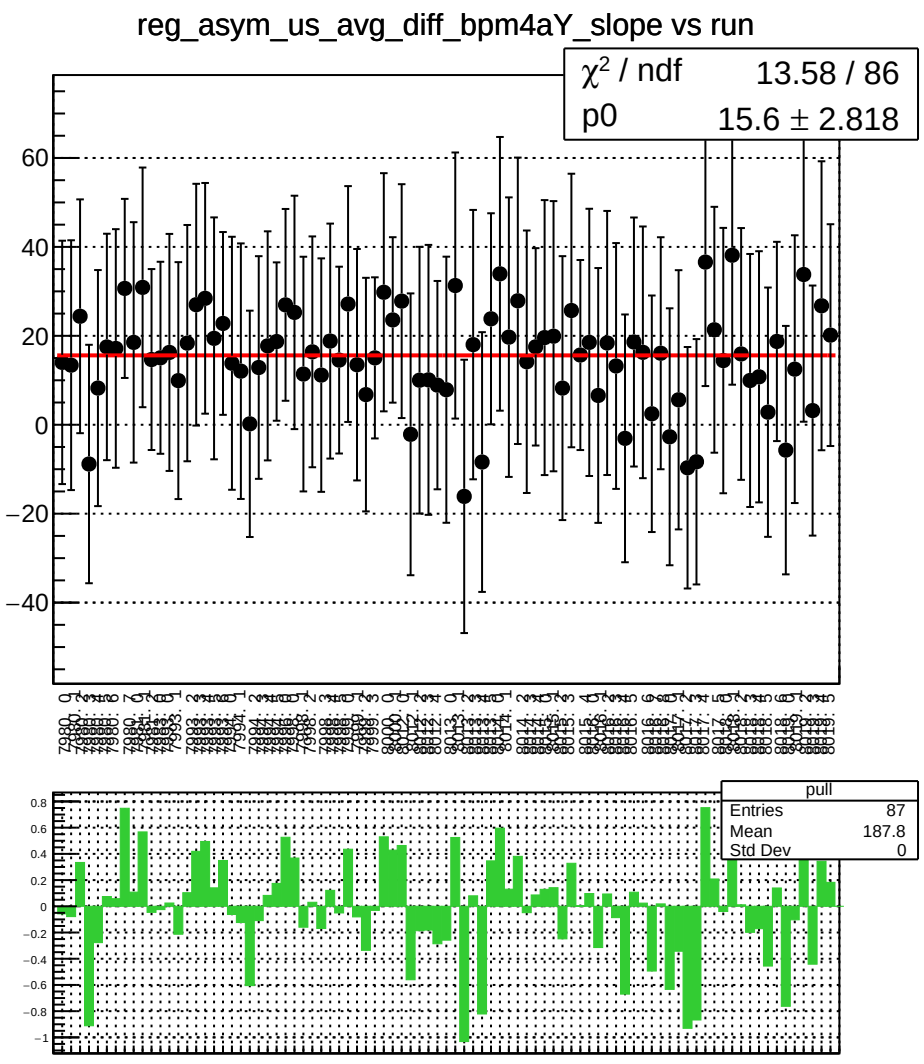

pull1D
Entries 87
Mean 0.02421
Std Dev 1.125

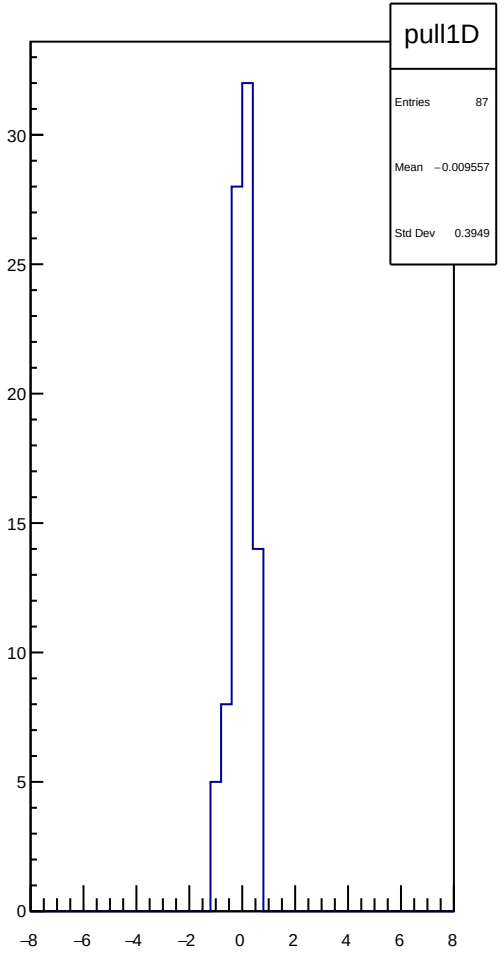

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 102.4 / 86
p0 0.03356 ± 0.02417
pull
Entries 87
Mean 98.12
Std Dev 0

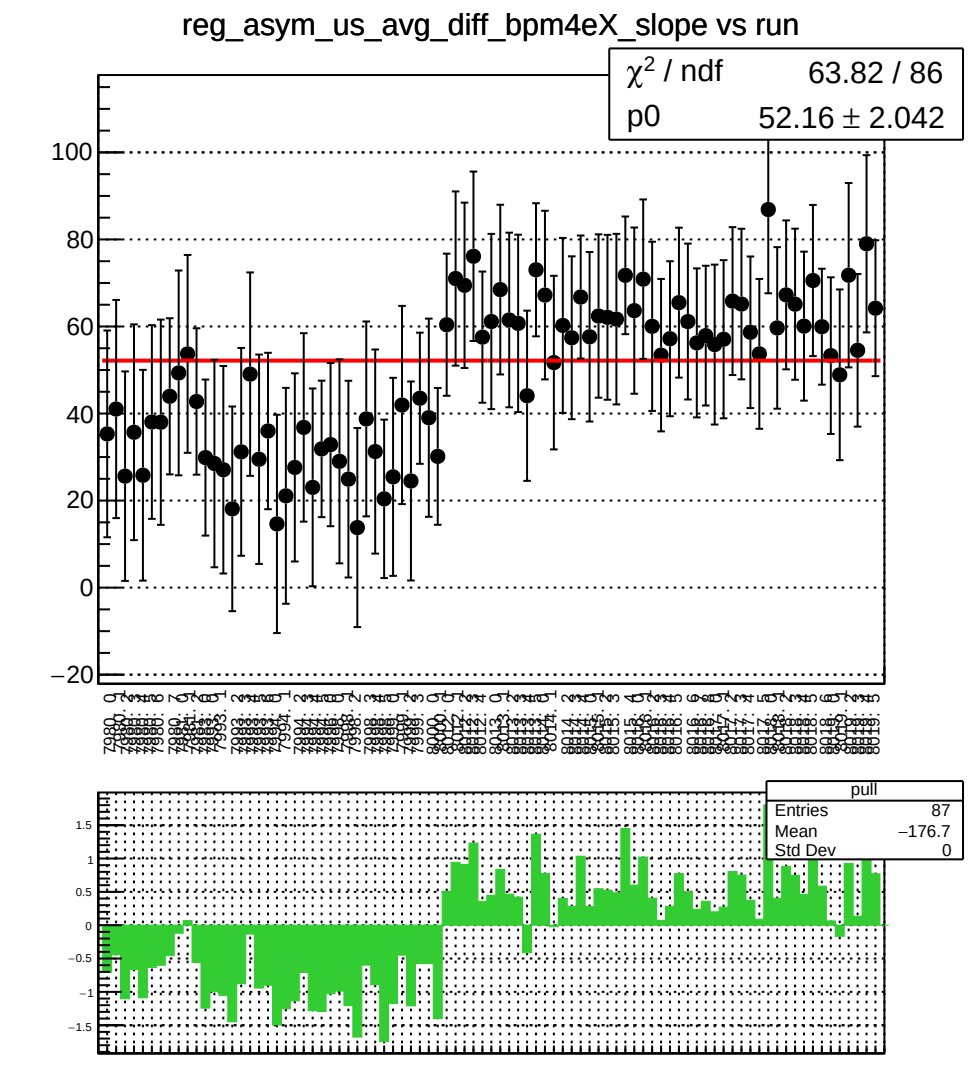

pull1D
Entries 87
Mean 0.04826
Std Dev 1.084

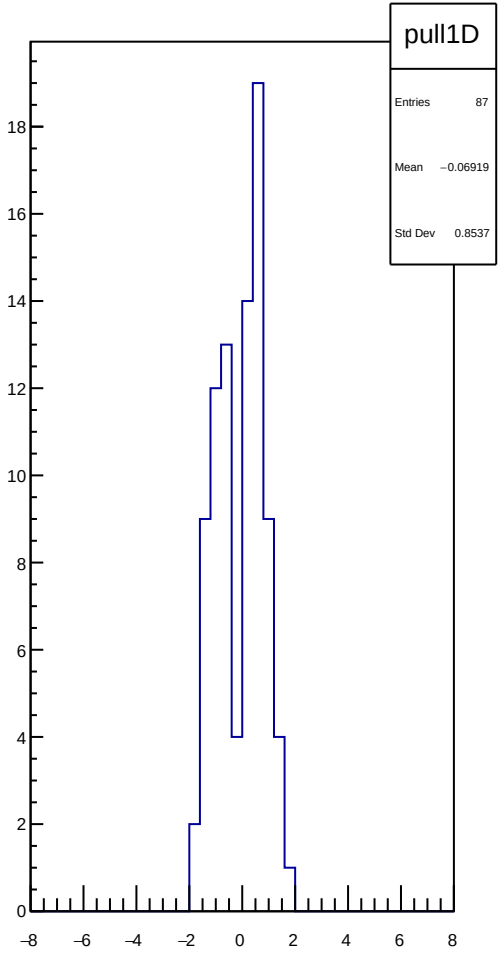

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 109.8 / 86
p0 −64.46 ± 2.021
pull
Entries 87
Mean −89.56
Std Dev 0

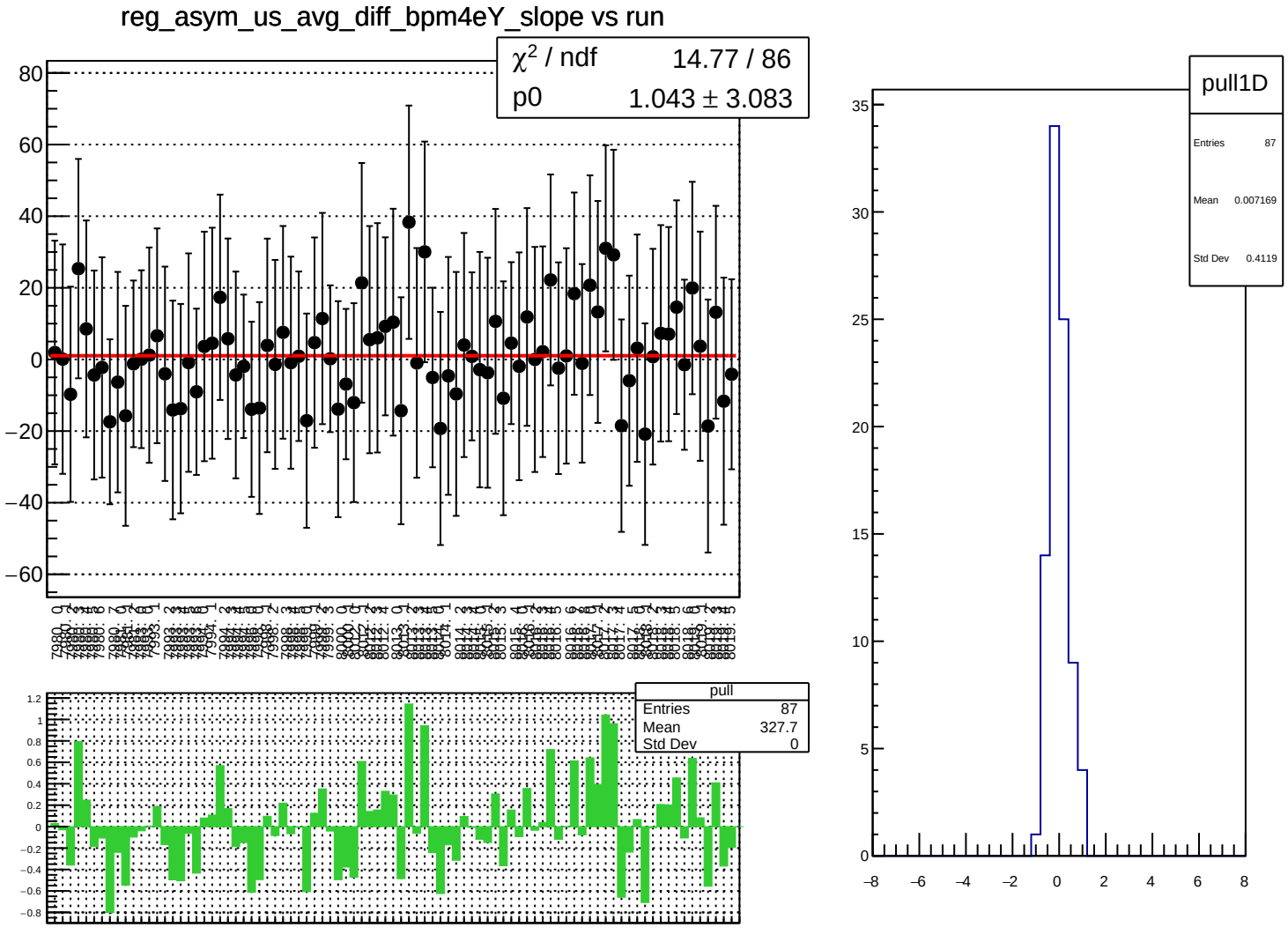

pull1D
Entries 87
Mean 0.1573
Std Dev 1.112

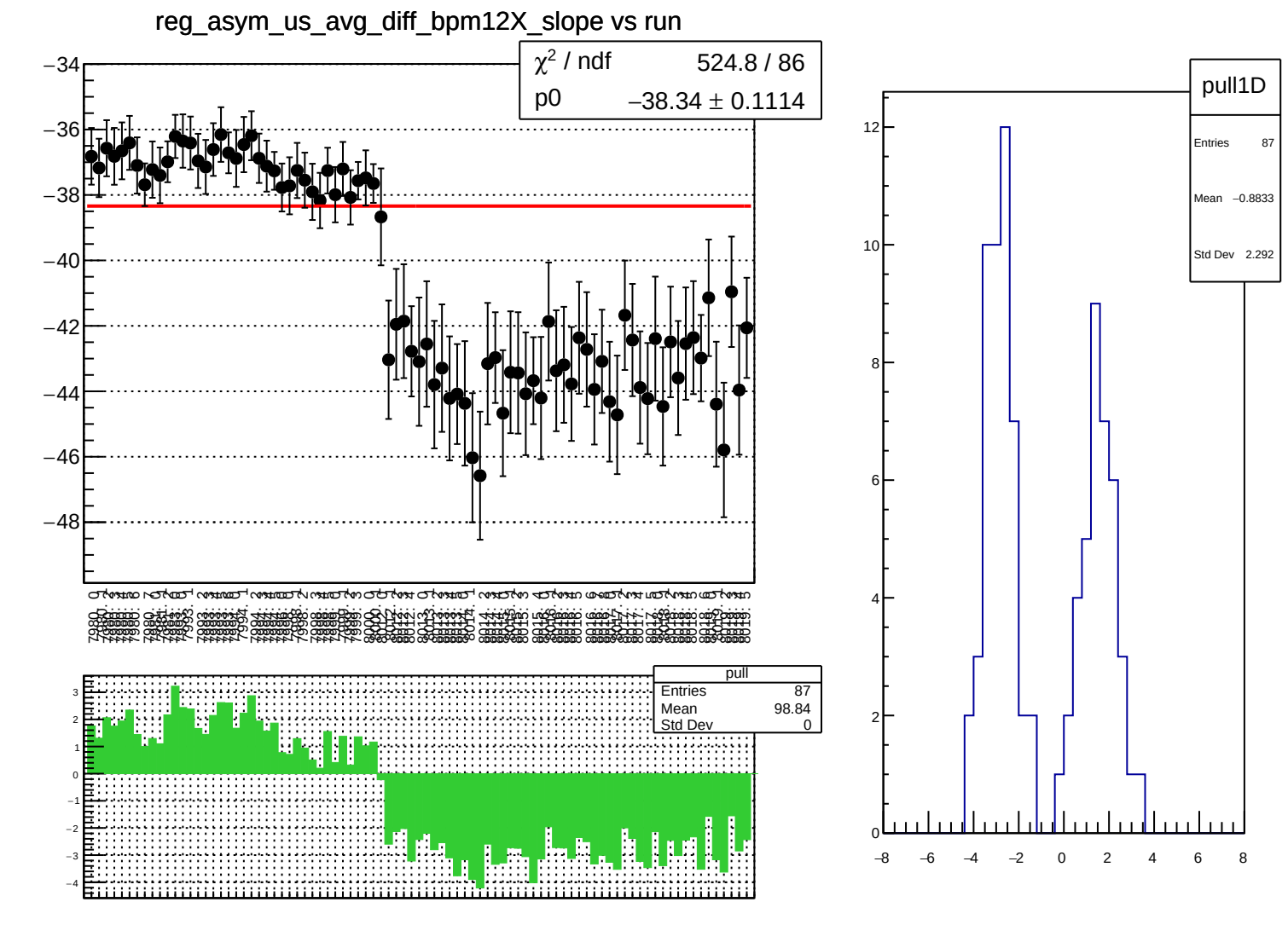

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.58 / 86
p0 15.6 ± 2.818
pull
Entries 87
Mean 187.8
Std Dev 0

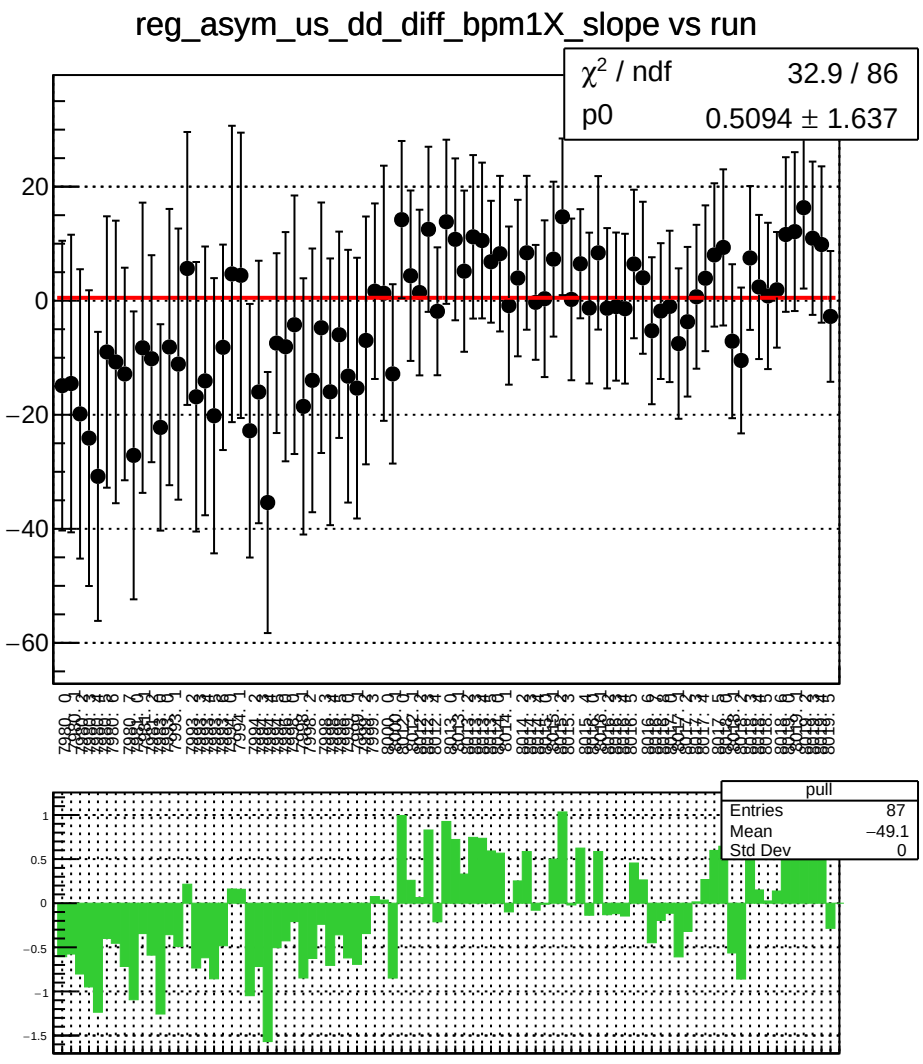

pull1D
Entries 87
Mean −0.009557
Std Dev 0.3949

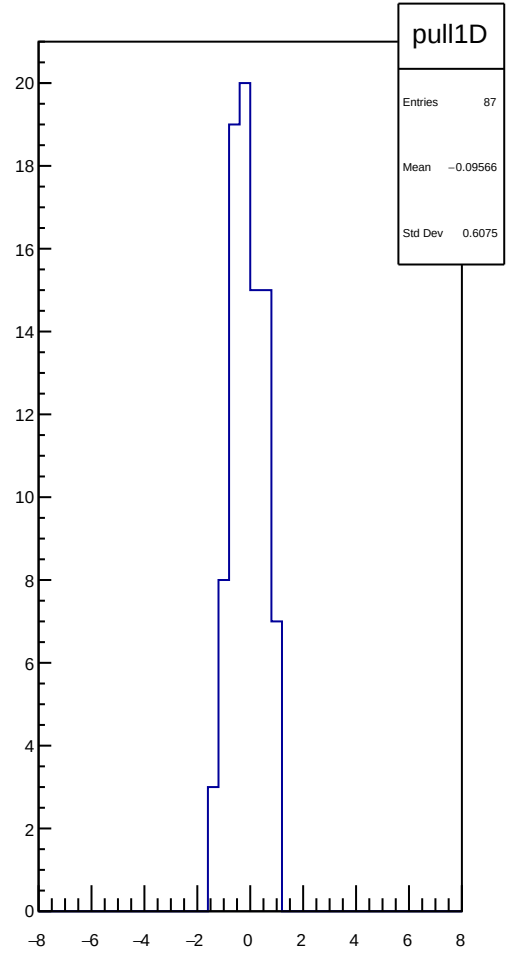

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.82 / 86
p0 52.16 ± 2.042
pull
Entries 87
Mean −176.7
Std Dev 0

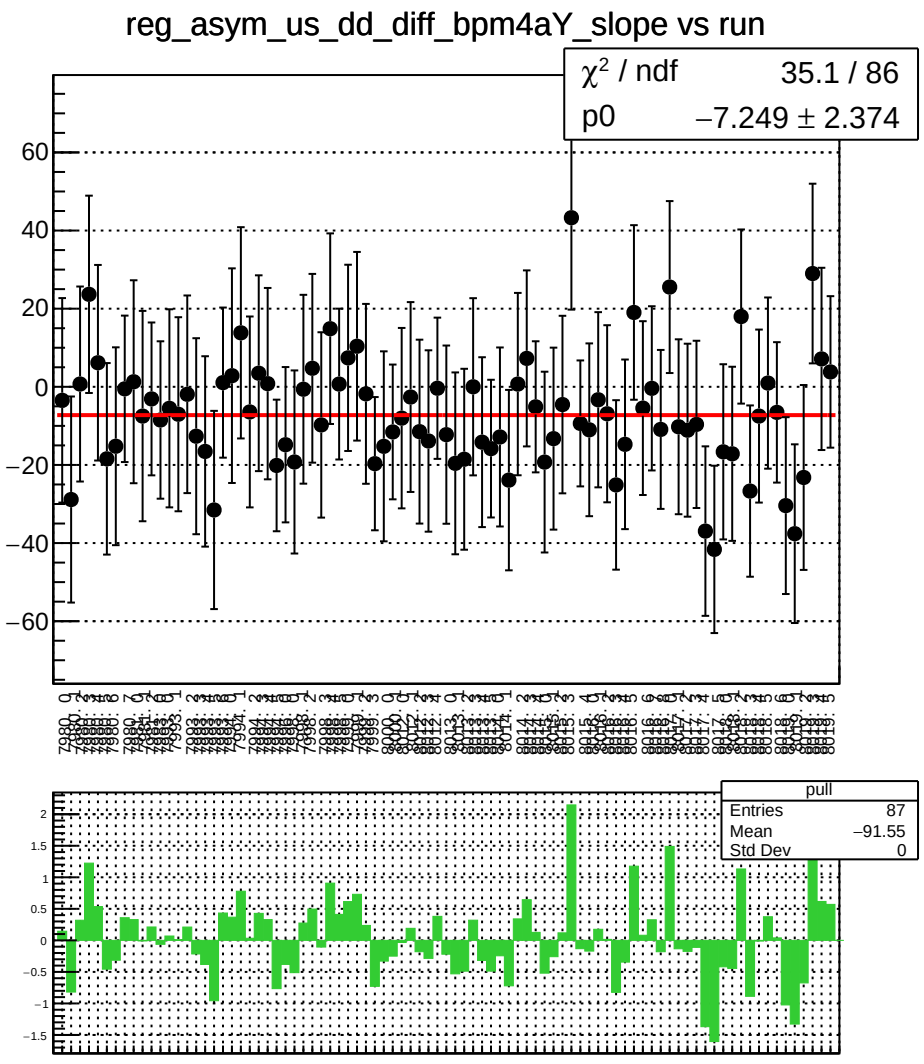

pull1D
Entries 87
Mean −0.06919
Std Dev 0.8537

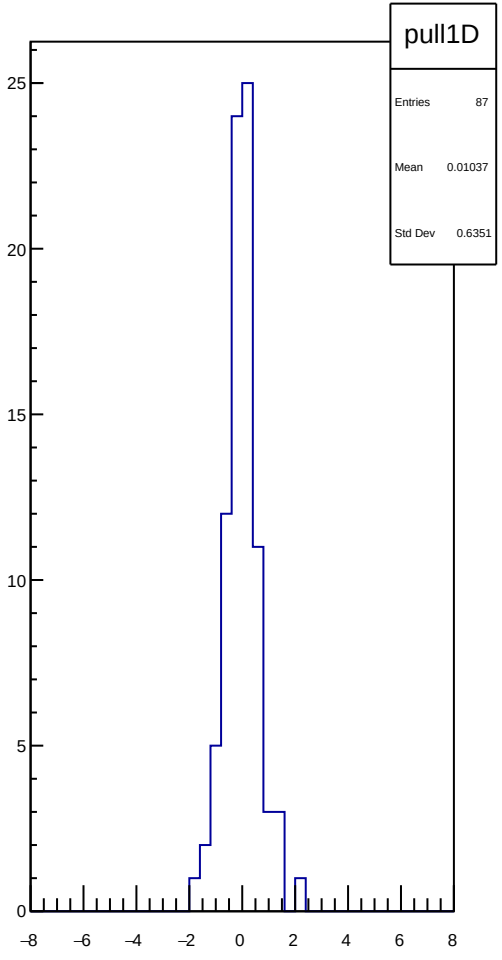

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.77 / 86
p0 1.043 ± 3.083
pull
Entries 87
Mean 327.7
Std Dev 0
pull1D
Entries 87
Mean 0.007169
Std Dev 0.4119

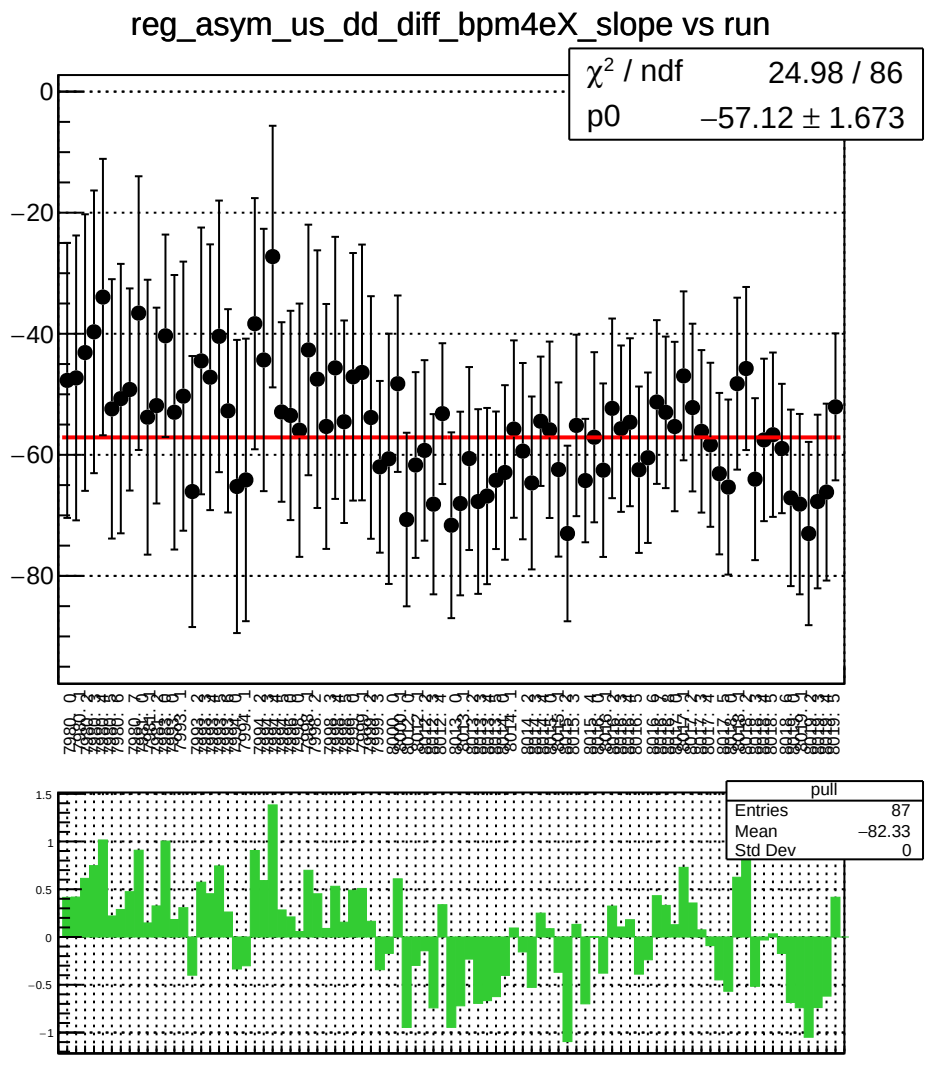

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 524.8 / 86
p0 −38.34 ± 0.1114
pull
Entries 87
Mean 98.84
Std Dev 0
pull1D
Entries 87
Mean −0.8833
Std Dev 2.292

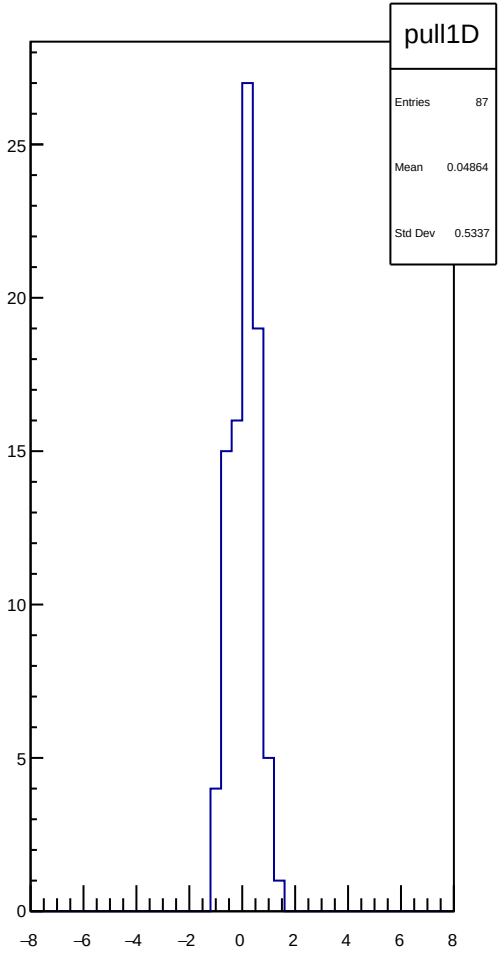

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 32.9 / 86
p0 0.5094 ± 1.637
pull
Entries 87
Mean −49.1
Std Dev 0

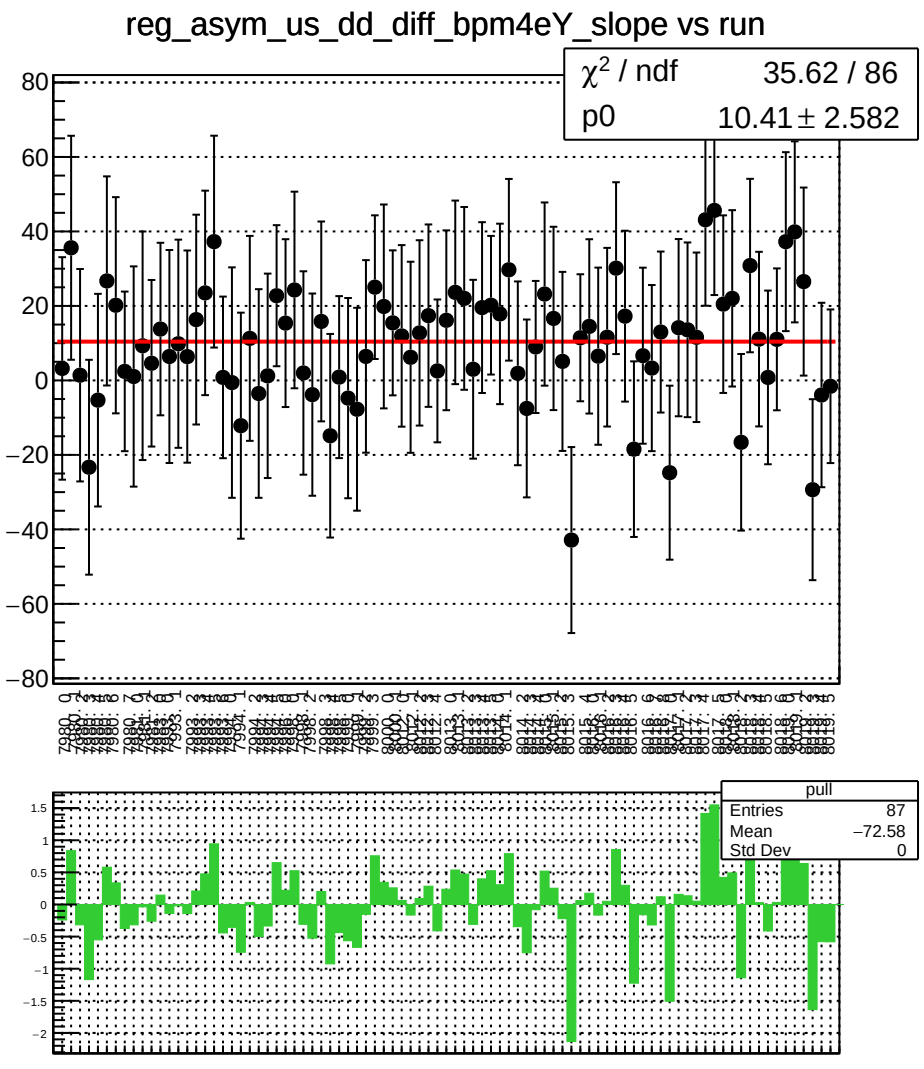

pull1D
Entries 87
Mean −0.09566
Std Dev 0.6075

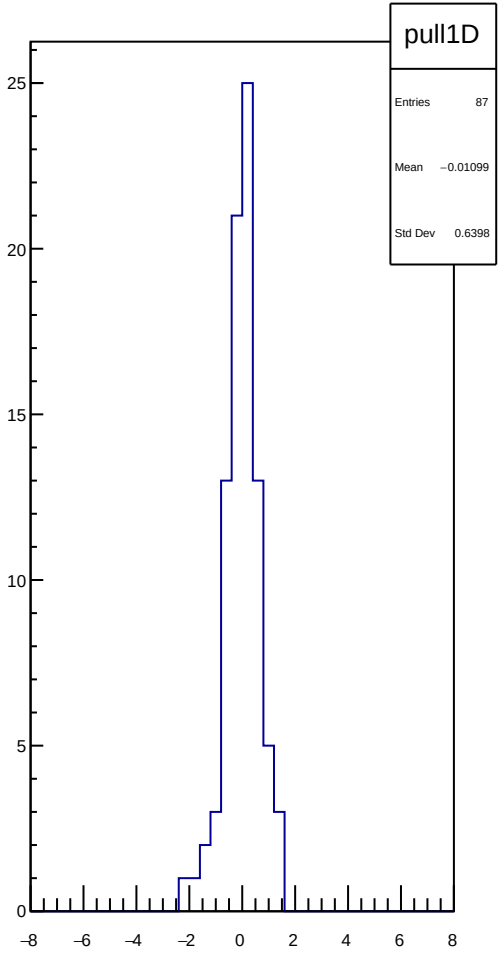

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.1 / 86
p0 −7.249 ± 2.374
pull
Entries 87
Mean −91.55
Std Dev 0

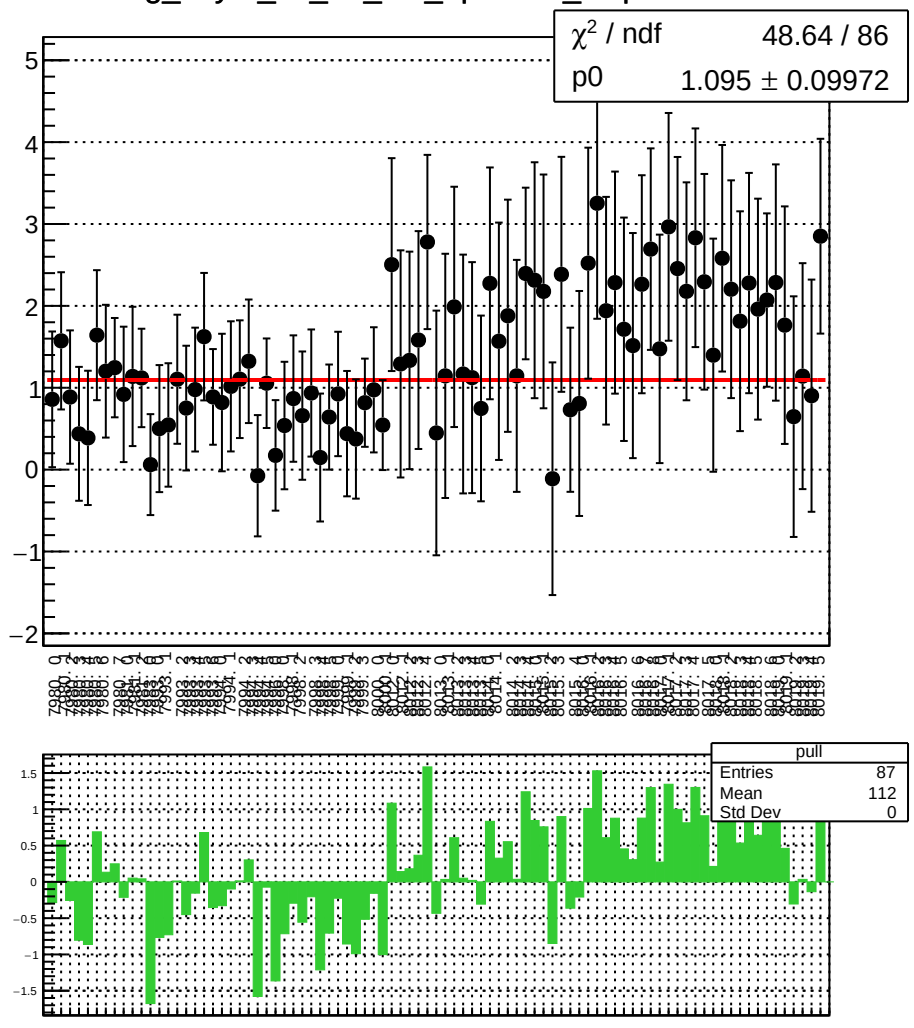

pull1D
Entries 87
Mean 0.01037
Std Dev 0.6351

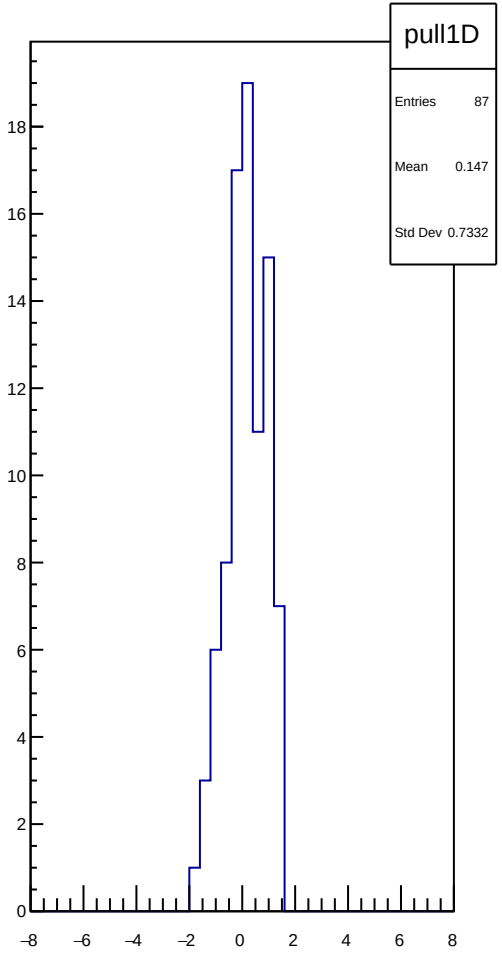

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.98 / 86
p0 −57.12 ± 1.673
pull
Entries 87
Mean −82.33
Std Dev 0

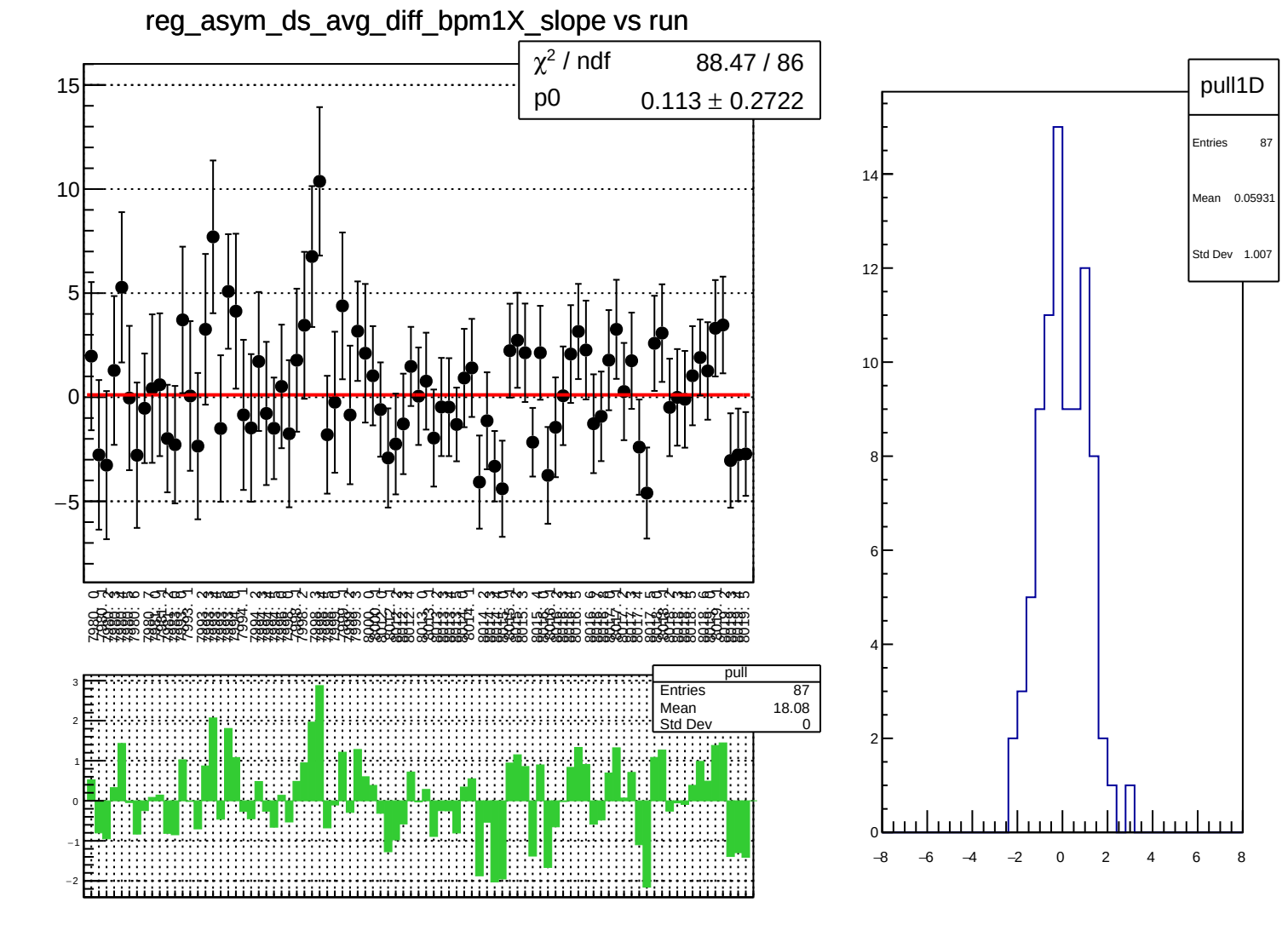

pull1D
Entries 87
Mean 0.04864
Std Dev 0.5337

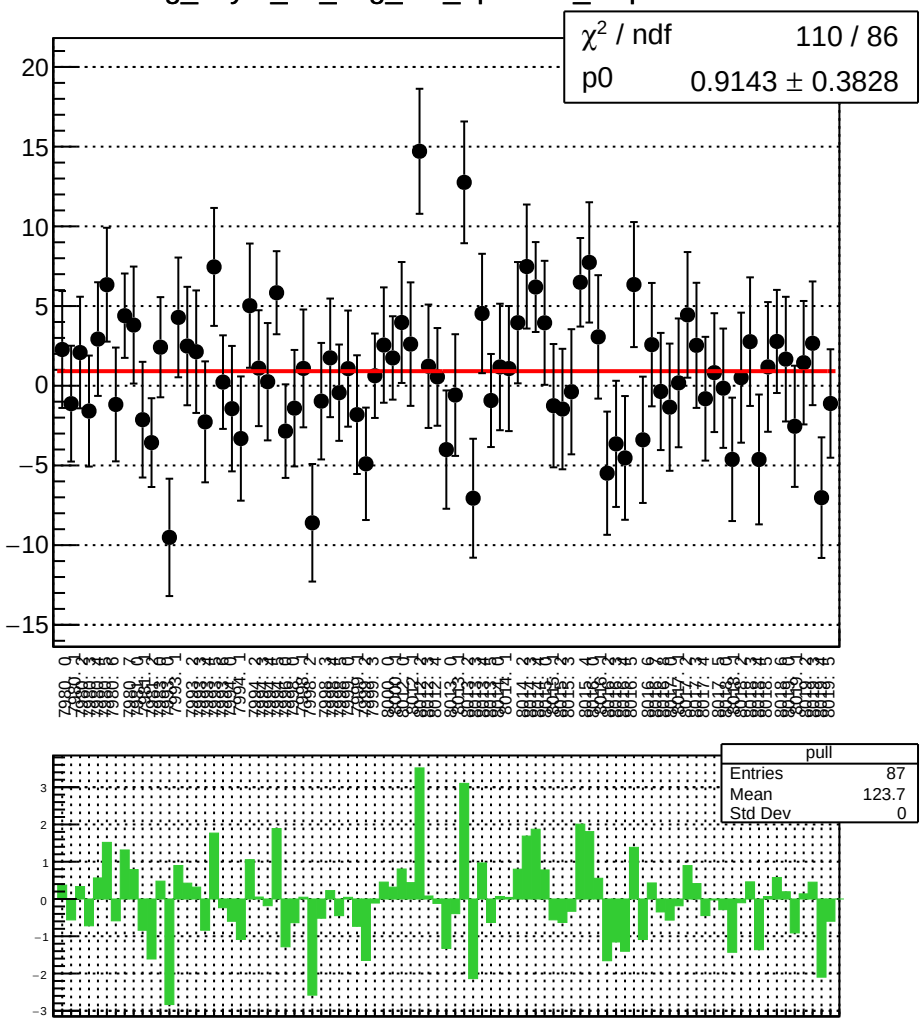

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.62 / 86
p0 10.41 ± 2.582
pull
Entries 87
Mean −72.58
Std Dev 0

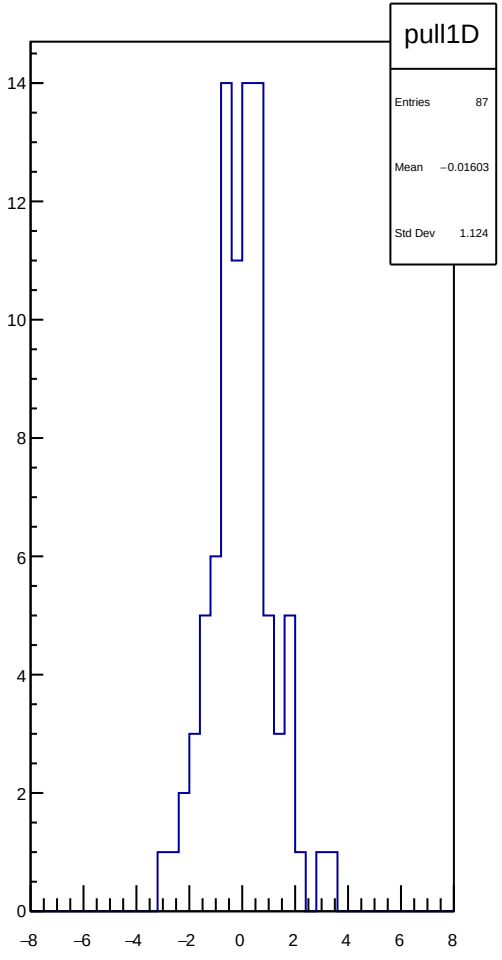

pull1D
Entries 87
Mean −0.01099
Std Dev 0.6398

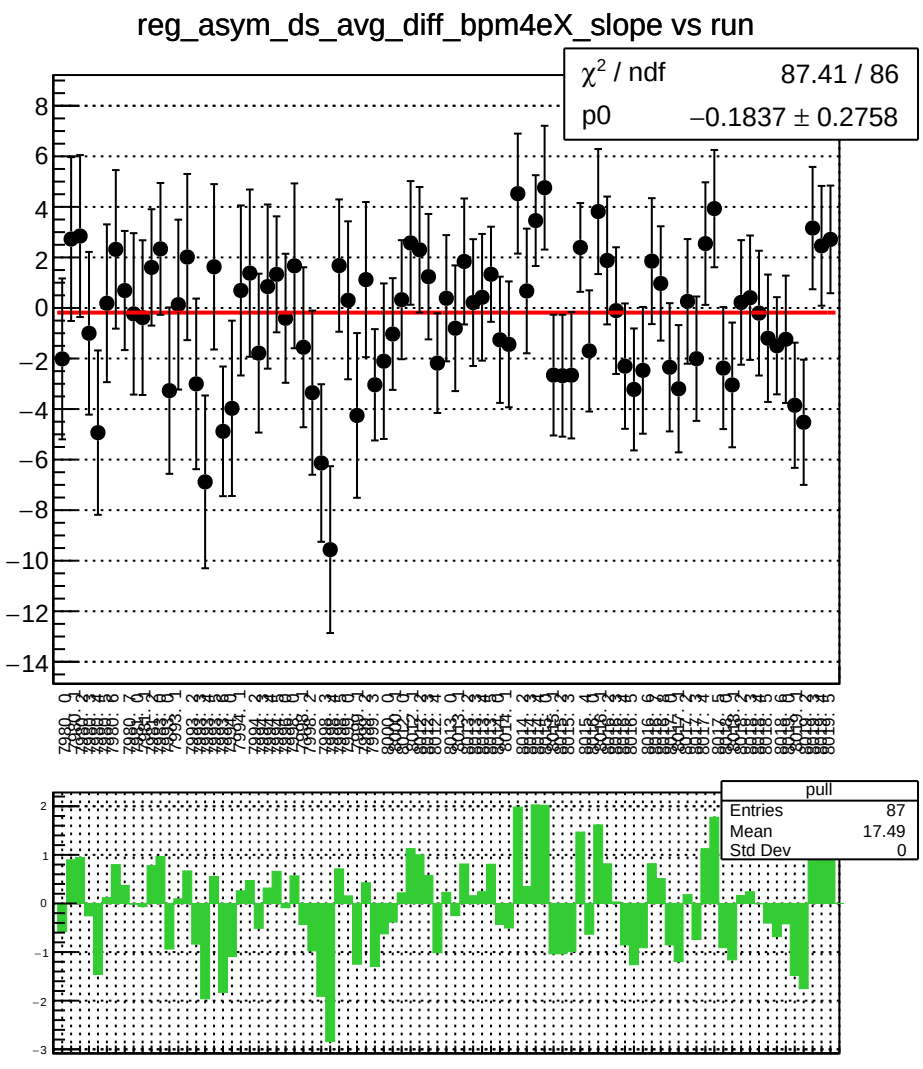

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 48.64 / 86
p0 1.095 ± 0.09972
pull
Entries 87
Mean 112
Std Dev 0

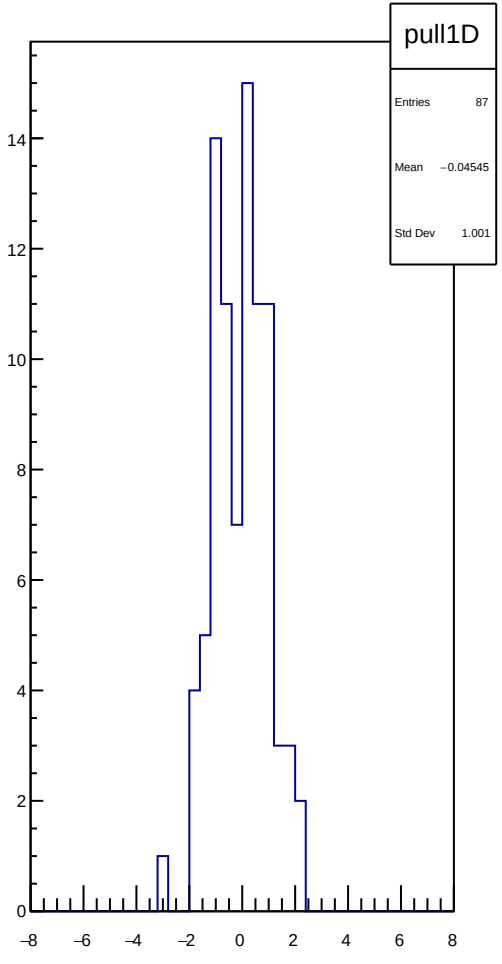

pull1D
Entries 87
Mean 0.147
Std Dev 0.7332

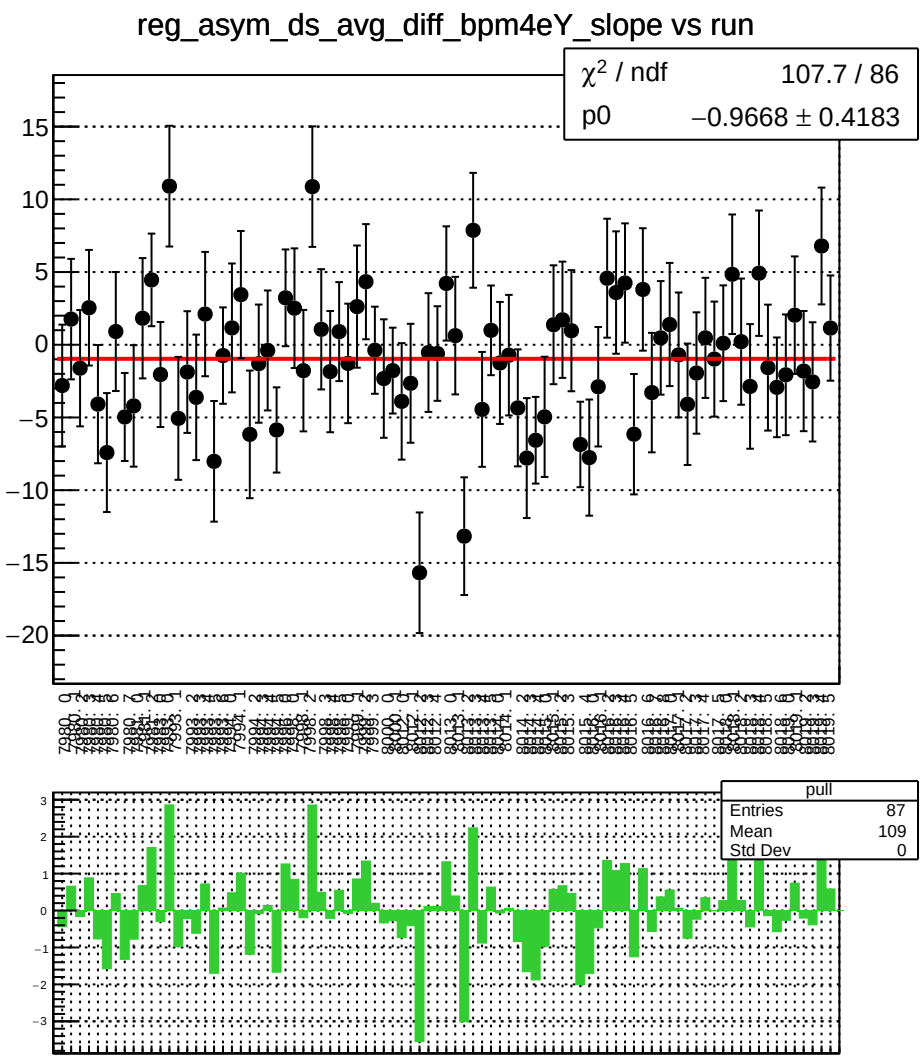

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 88.47 / 86
p0 0.113 ± 0.2722
pull
Entries 87
Mean 18.08
Std Dev 0
pull1D
Entries 87
Mean 0.05931
Std Dev 1.007

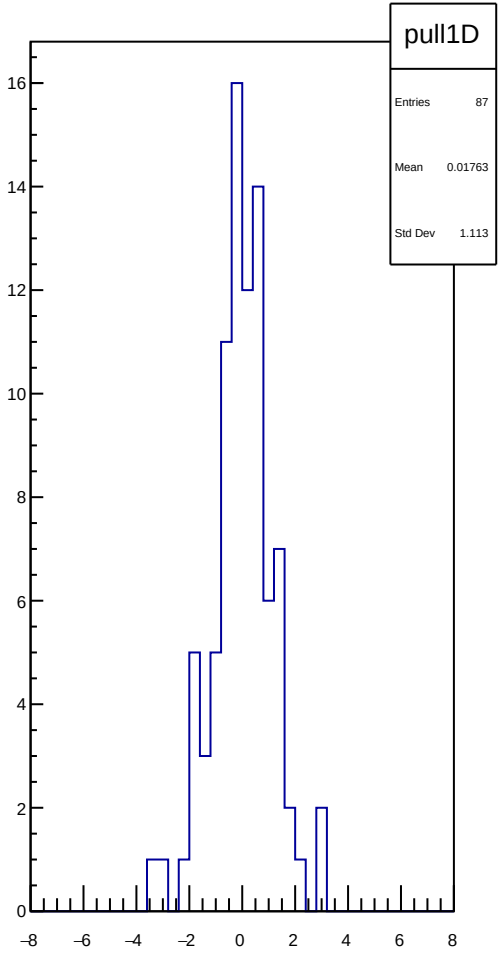

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 110 / 86
p0 0.9143 ± 0.3828
pull
Entries 87
Mean 123.7
Std Dev 0

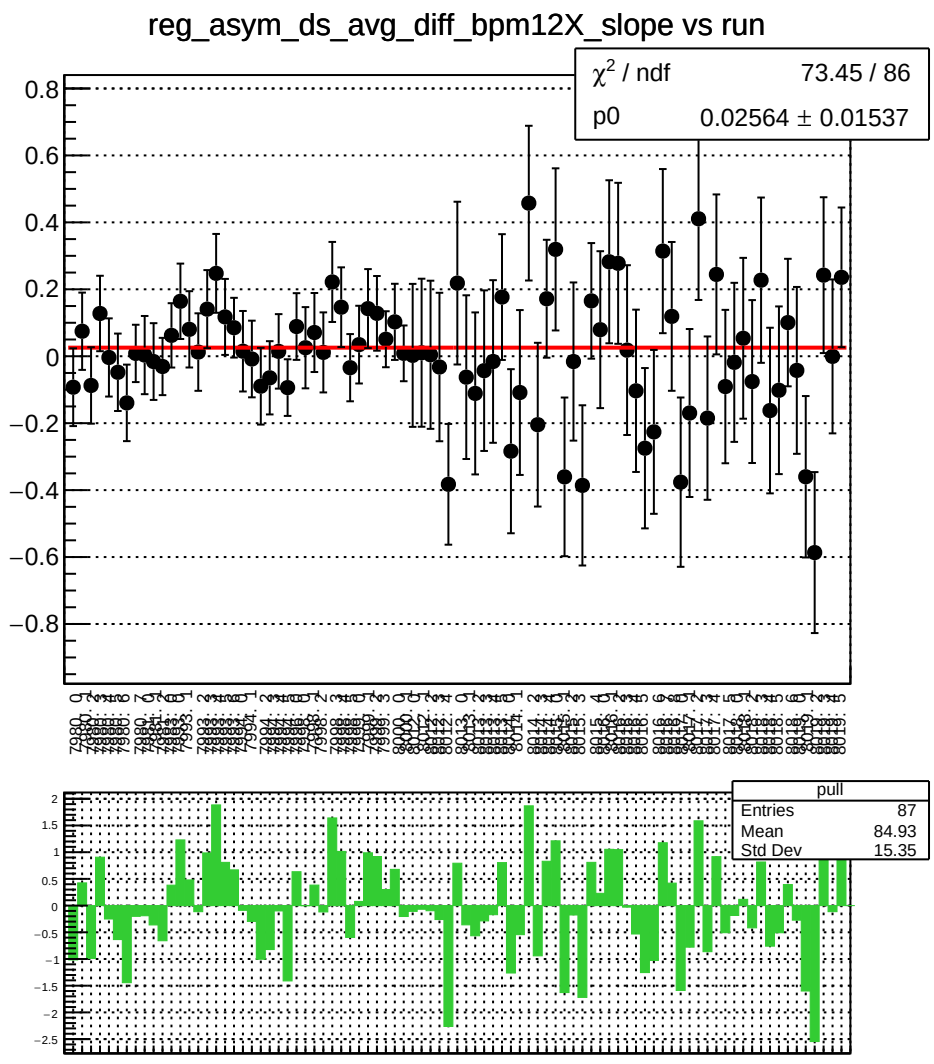

pull1D
Entries 87
Mean −0.01603
Std Dev 1.124

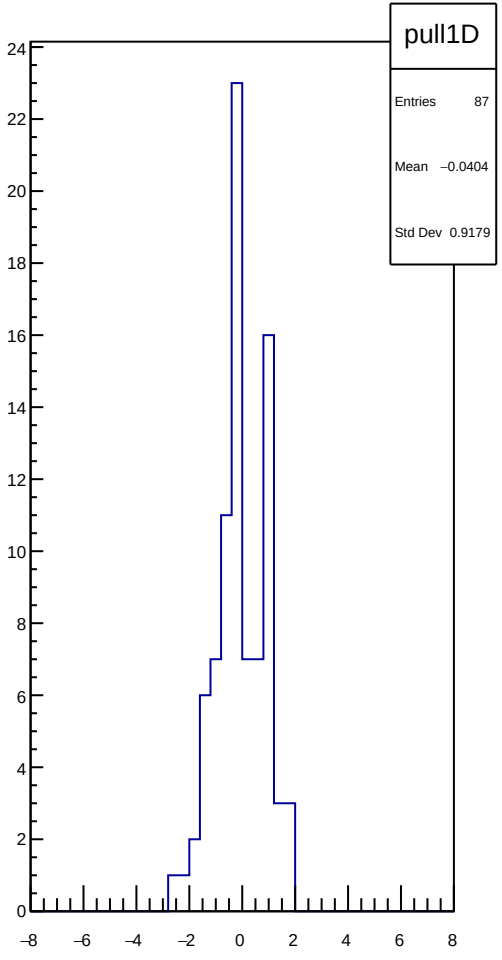

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 87.41 / 86
p0 −0.1837 ± 0.2758
pull
Entries 87
Mean 17.49
Std Dev 0

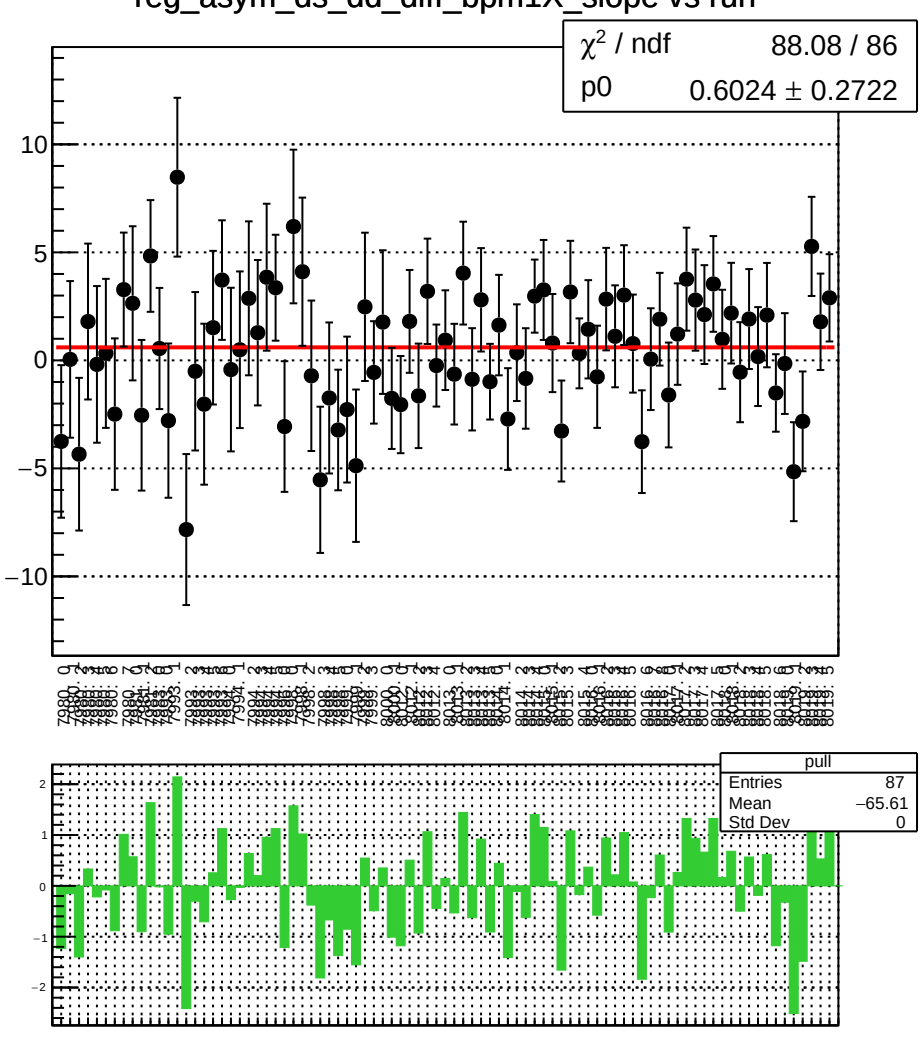

pull1D
Entries 87
Mean −0.04545
Std Dev 1.001

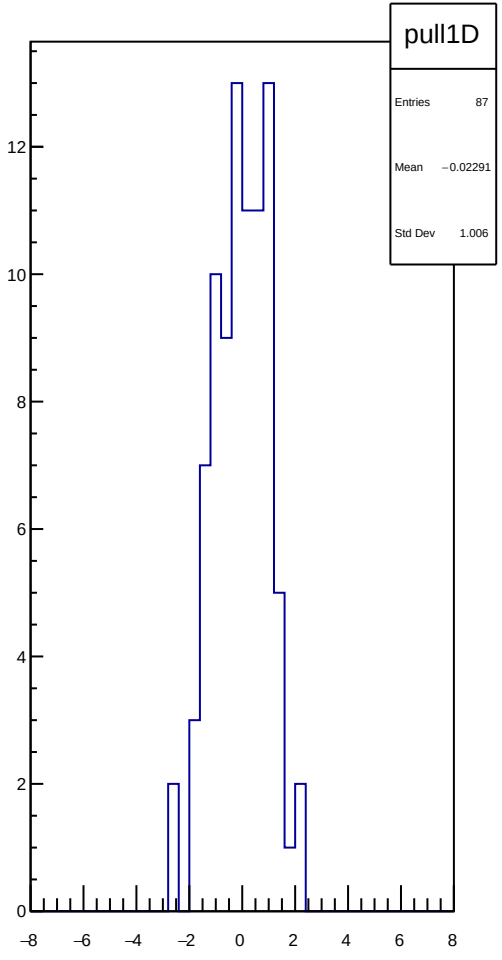

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 107.7 / 86
p0 −0.9668 ± 0.4183
pull
Entries 87
Mean 109
Std Dev 0

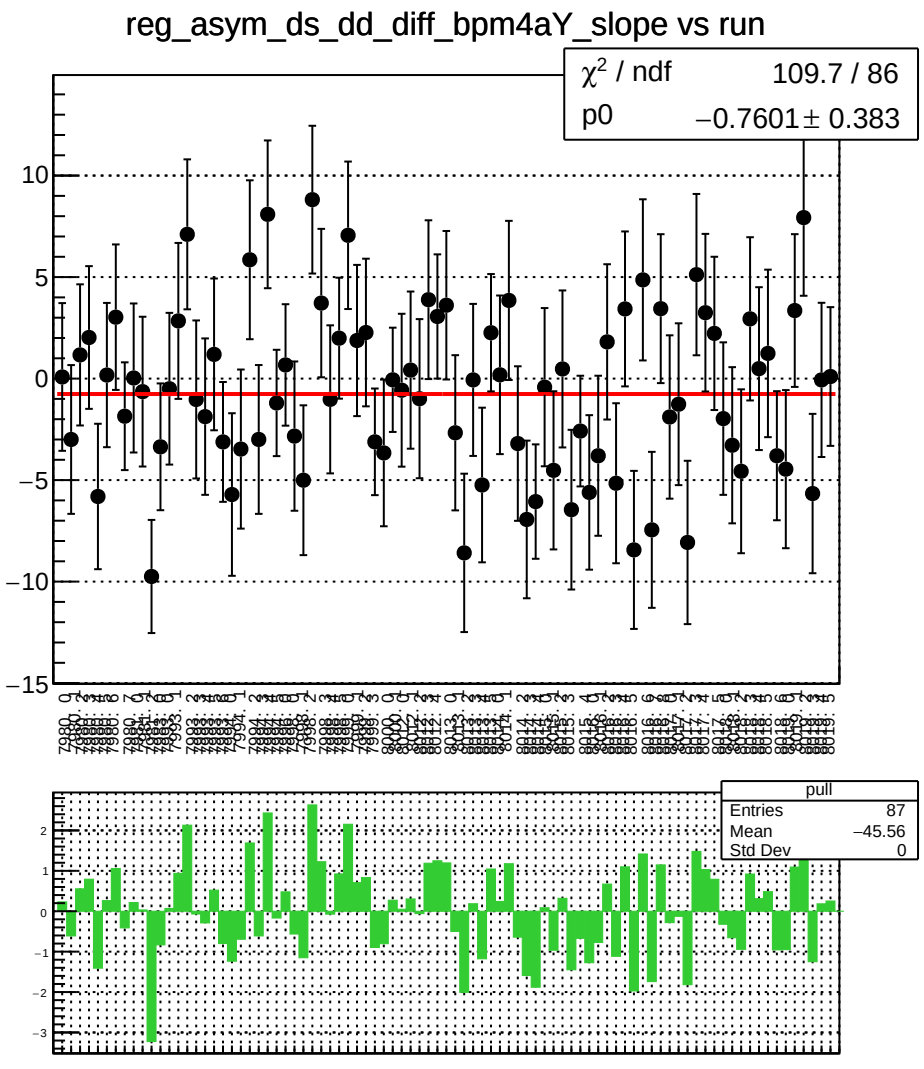

pull1D
Entries 87
Mean 0.01763
Std Dev 1.113

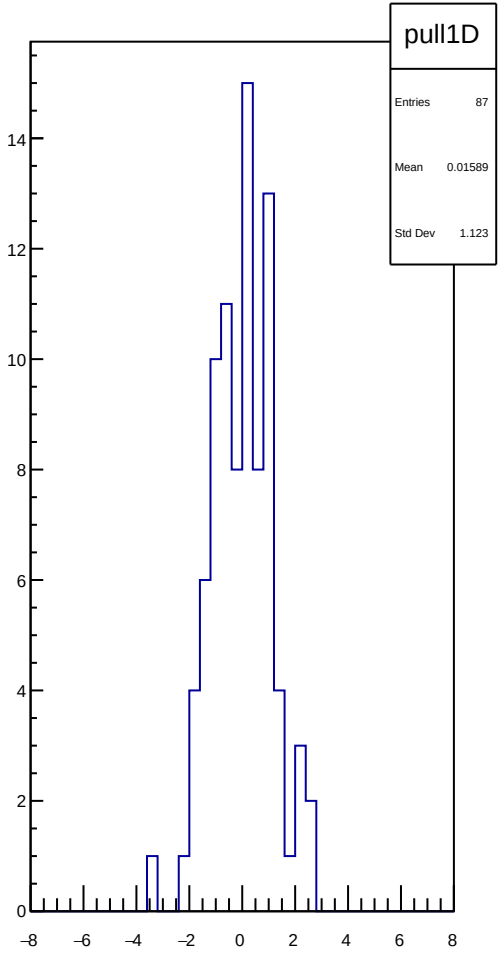

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 73.45 / 86
p0 0.02564 ± 0.01537
pull
Entries 87
Mean 84.93
Std Dev 15.35

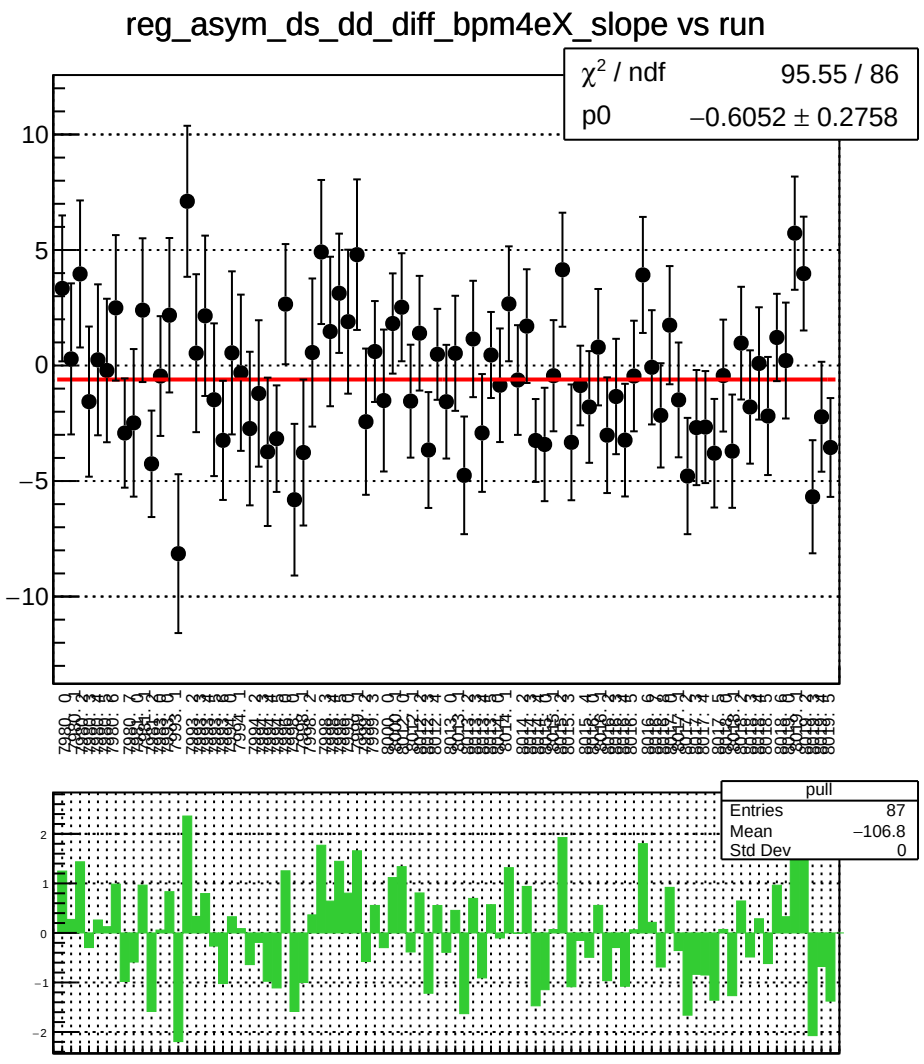

pull1D
Entries 87
Mean −0.0404
Std Dev 0.9179

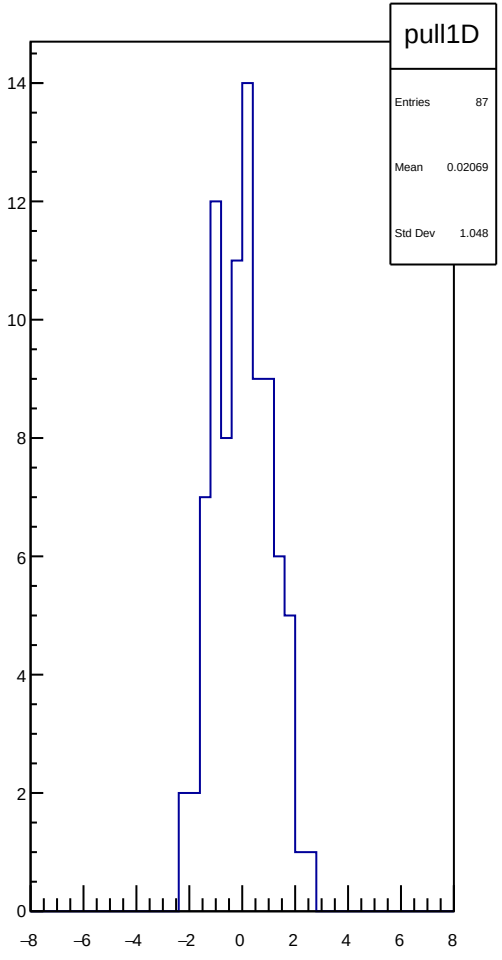

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 88.08 / 86
p0 0.6024 ± 0.2722
pull
Entries 87
Mean −65.61
Std Dev 0

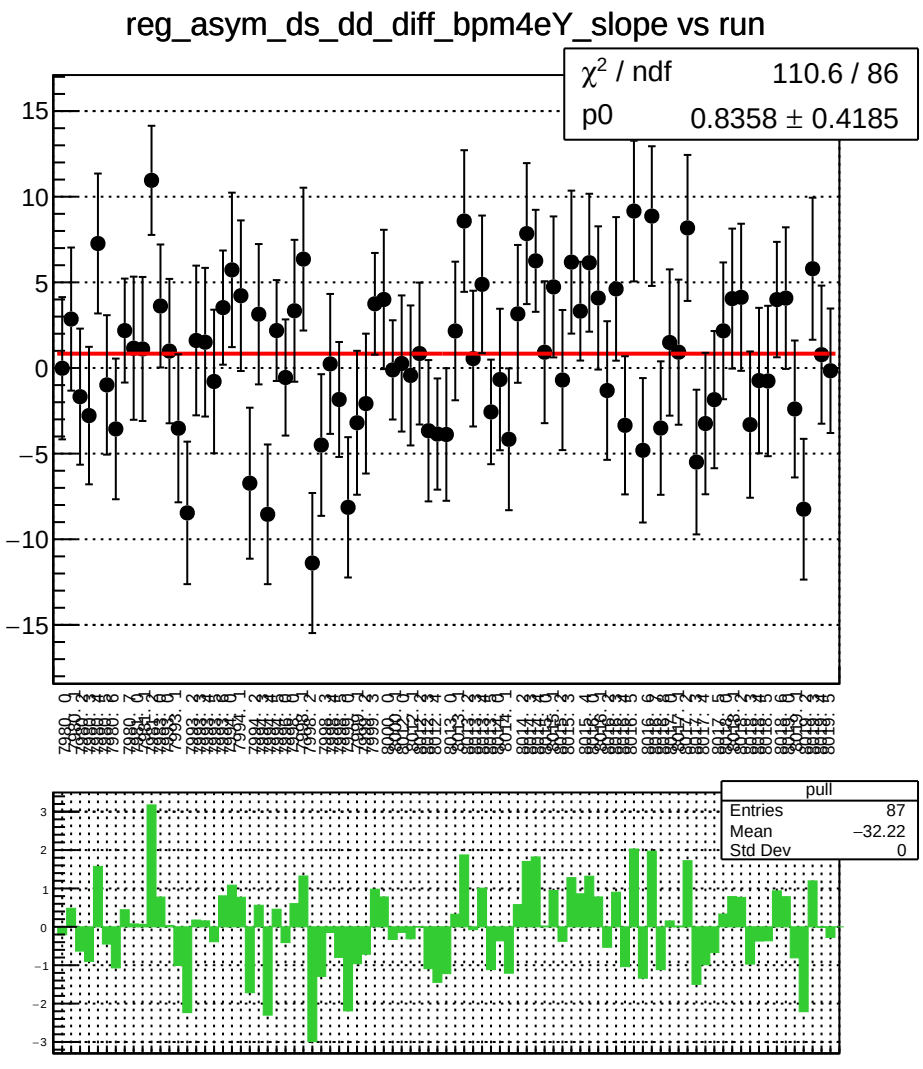

pull1D
Entries 87
Mean −0.02291
Std Dev 1.006

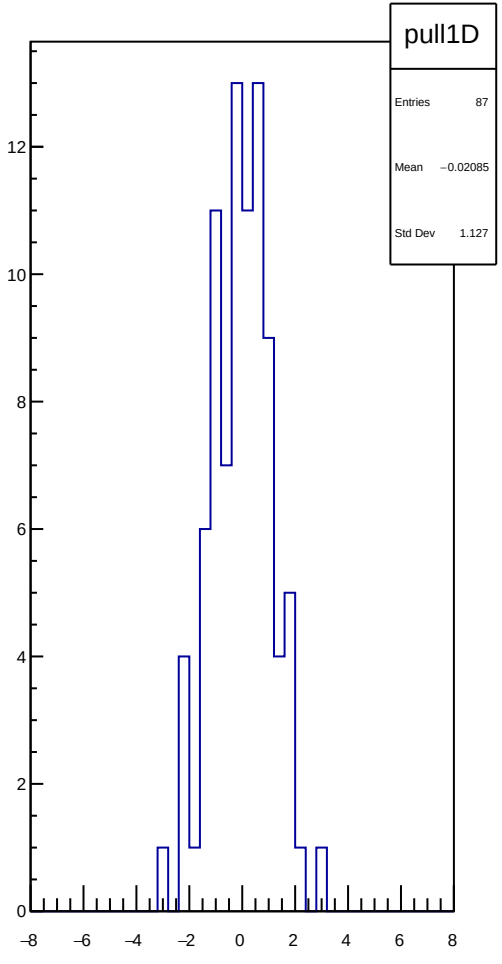

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 109.7 / 86
p0 −0.7601 ± 0.383
pull
Entries 87
Mean −45.56
Std Dev 0

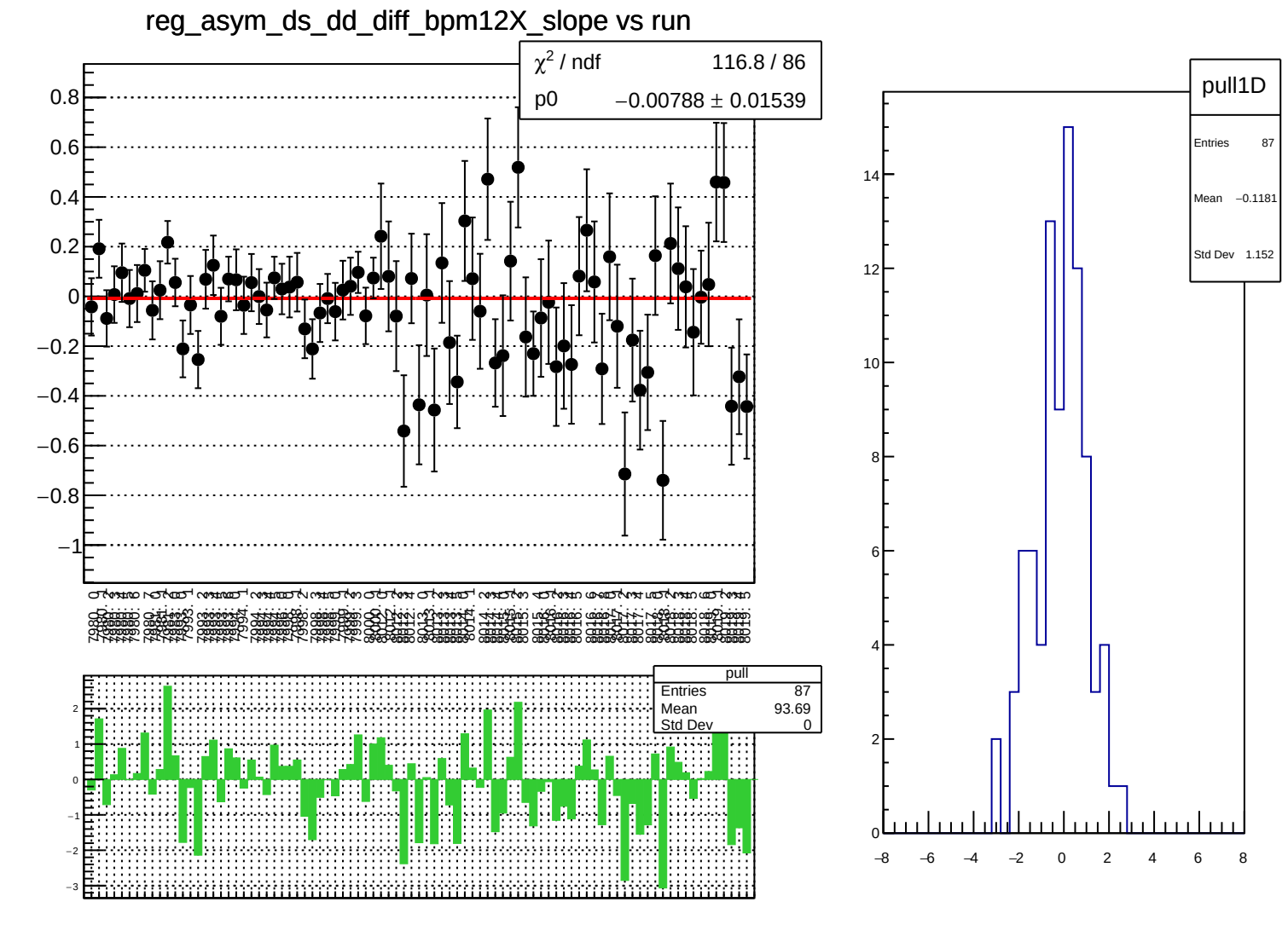

pull1D
Entries 87
Mean 0.01589
Std Dev 1.123

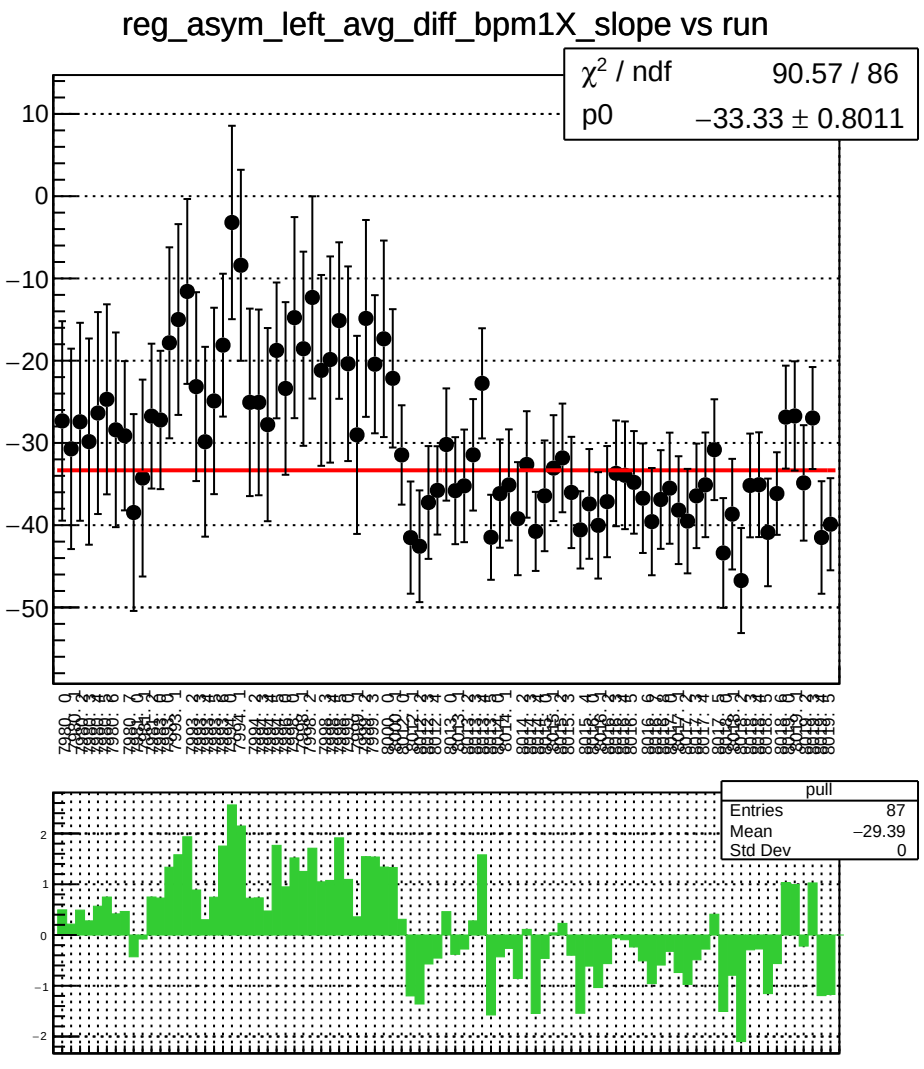

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 95.55 / 86
p0 −0.6052 ± 0.2758
pull
Entries 87
Mean −106.8
Std Dev 0

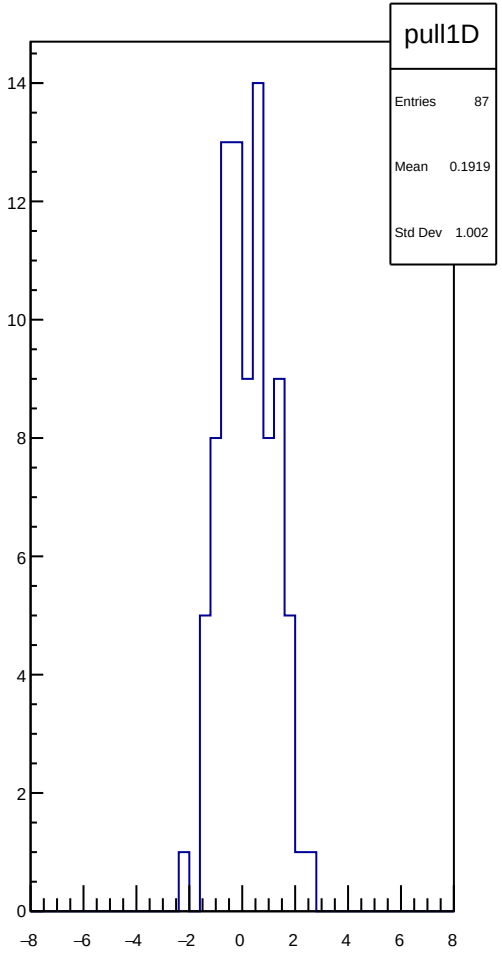

pull1D
Entries 87
Mean 0.02069
Std Dev 1.048

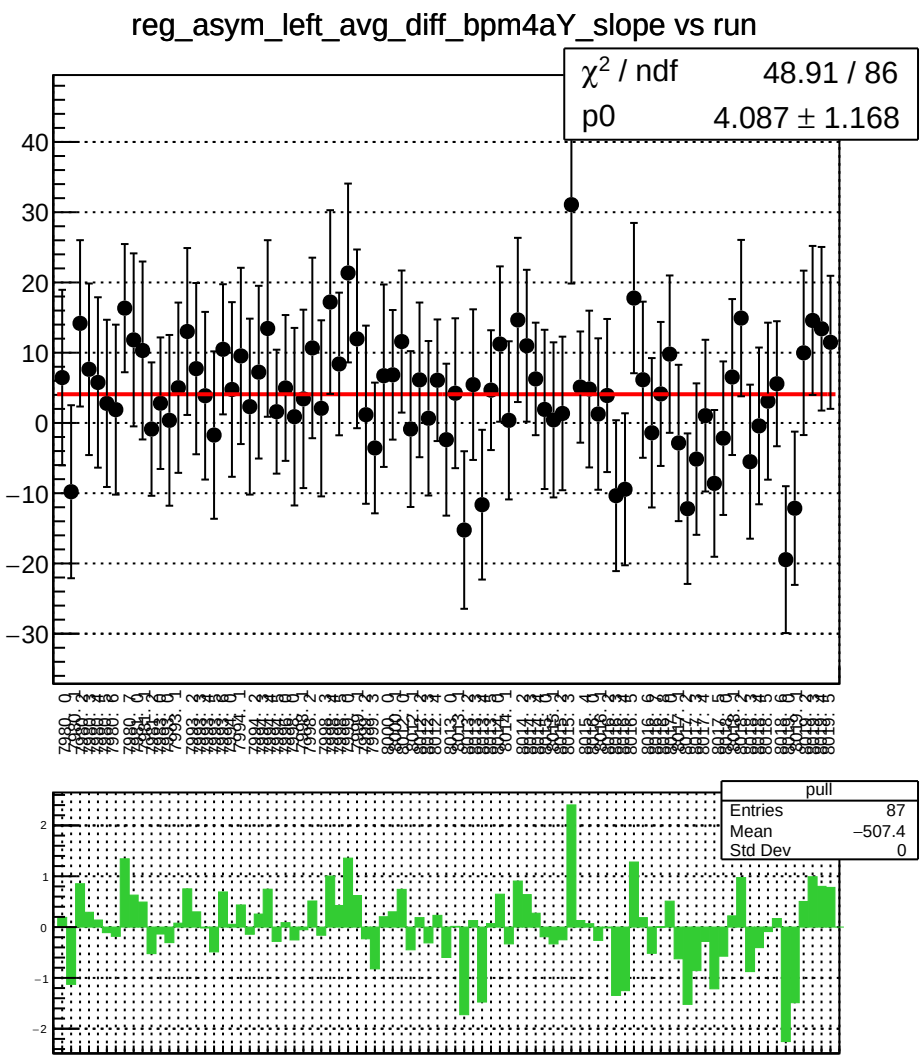

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 110.6 / 86
p0 0.8358 ± 0.4185
pull
Entries 87
Mean −32.22
Std Dev 0

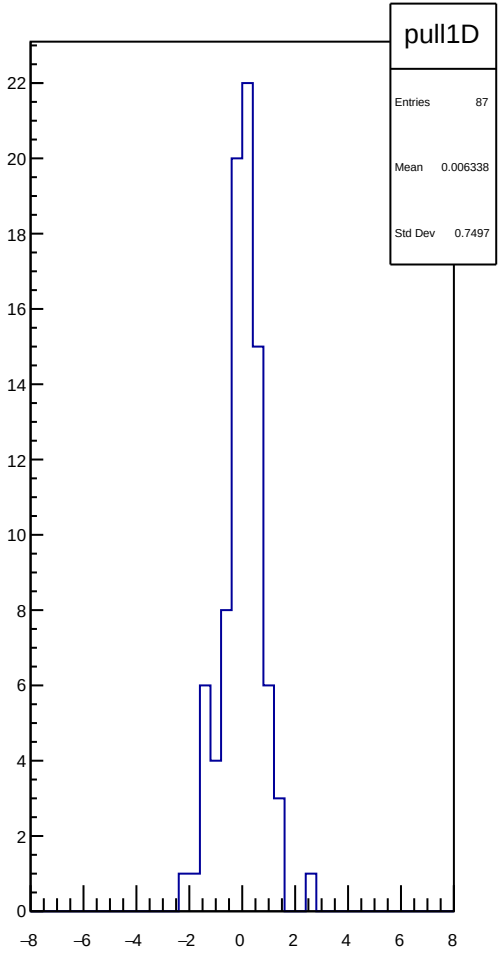

pull1D
Entries 87
Mean −0.02085
Std Dev 1.127

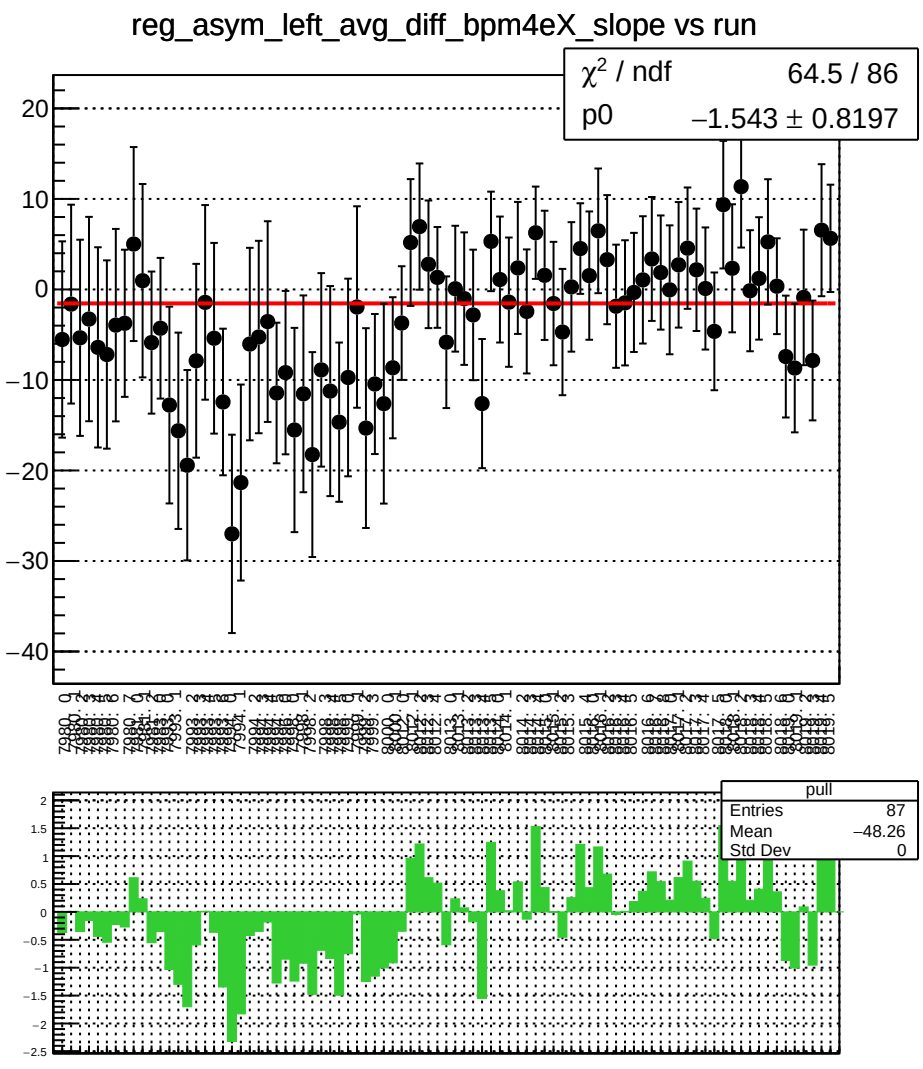

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 116.8 / 86
p0 −0.00788 ± 0.01539
pull
Entries 87
Mean 93.69
Std Dev 0
pull1D
Entries 87
Mean −0.1181
Std Dev 1.152

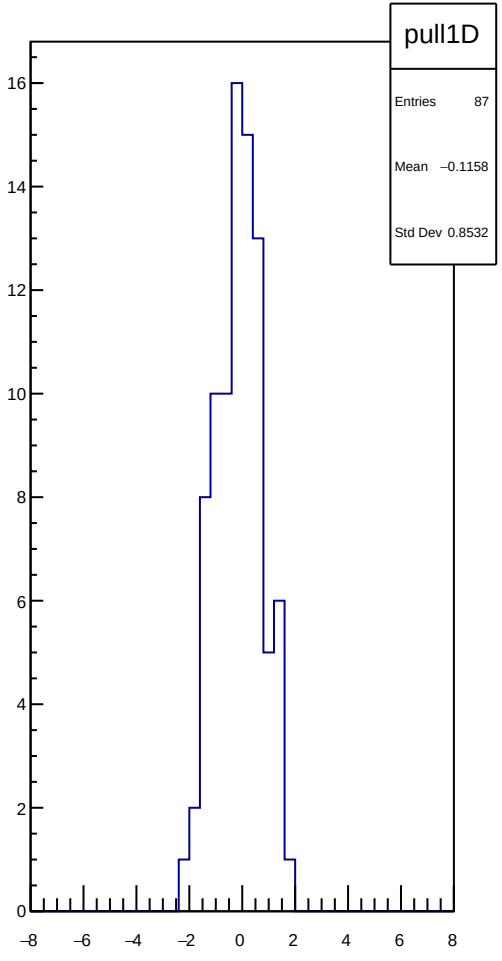

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 90.57 / 86
p0 −33.33 ± 0.8011
pull
Entries 87
Mean −29.39
Std Dev 0

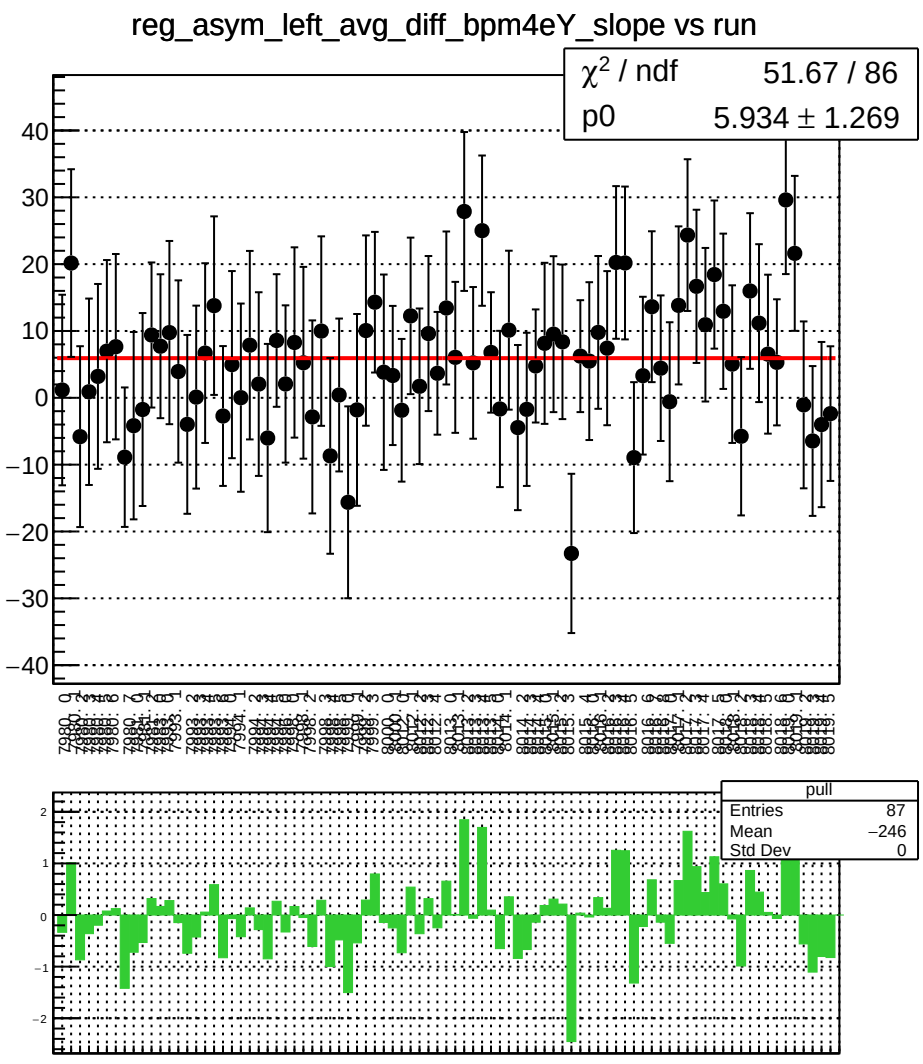

pull1D
Entries 87
Mean 0.1919
Std Dev 1.002

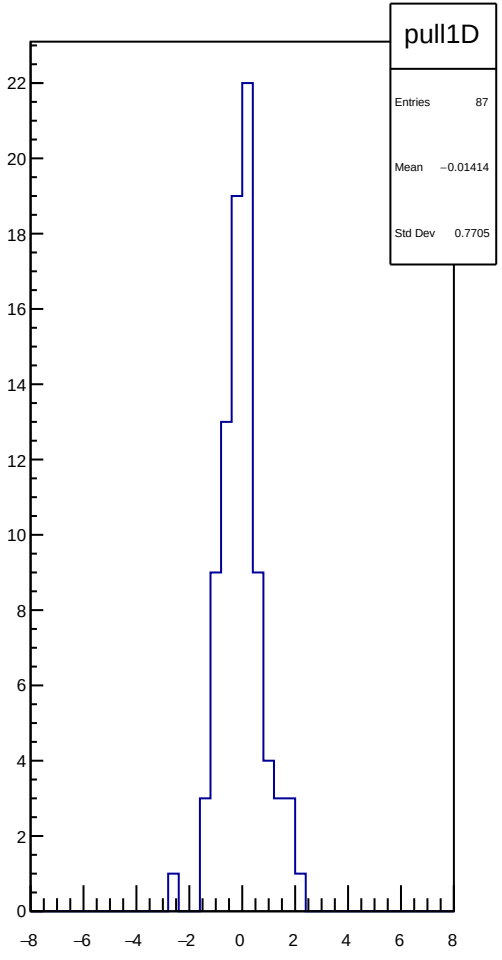

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.91 / 86
p0 4.087 ± 1.168
pull
Entries 87
Mean −507.4
Std Dev 0

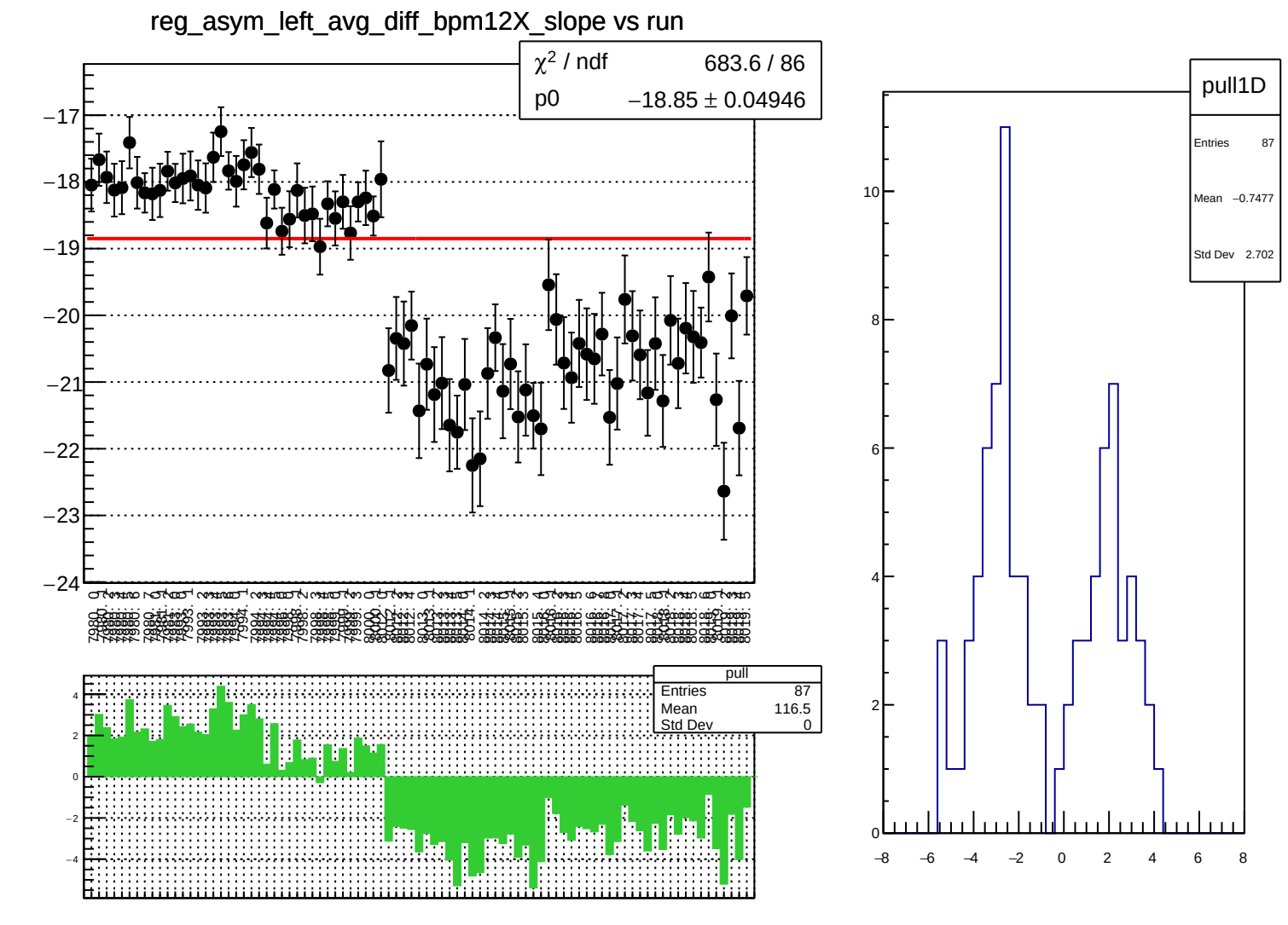

pull1D
Entries 87
Mean 0.006338
Std Dev 0.7497

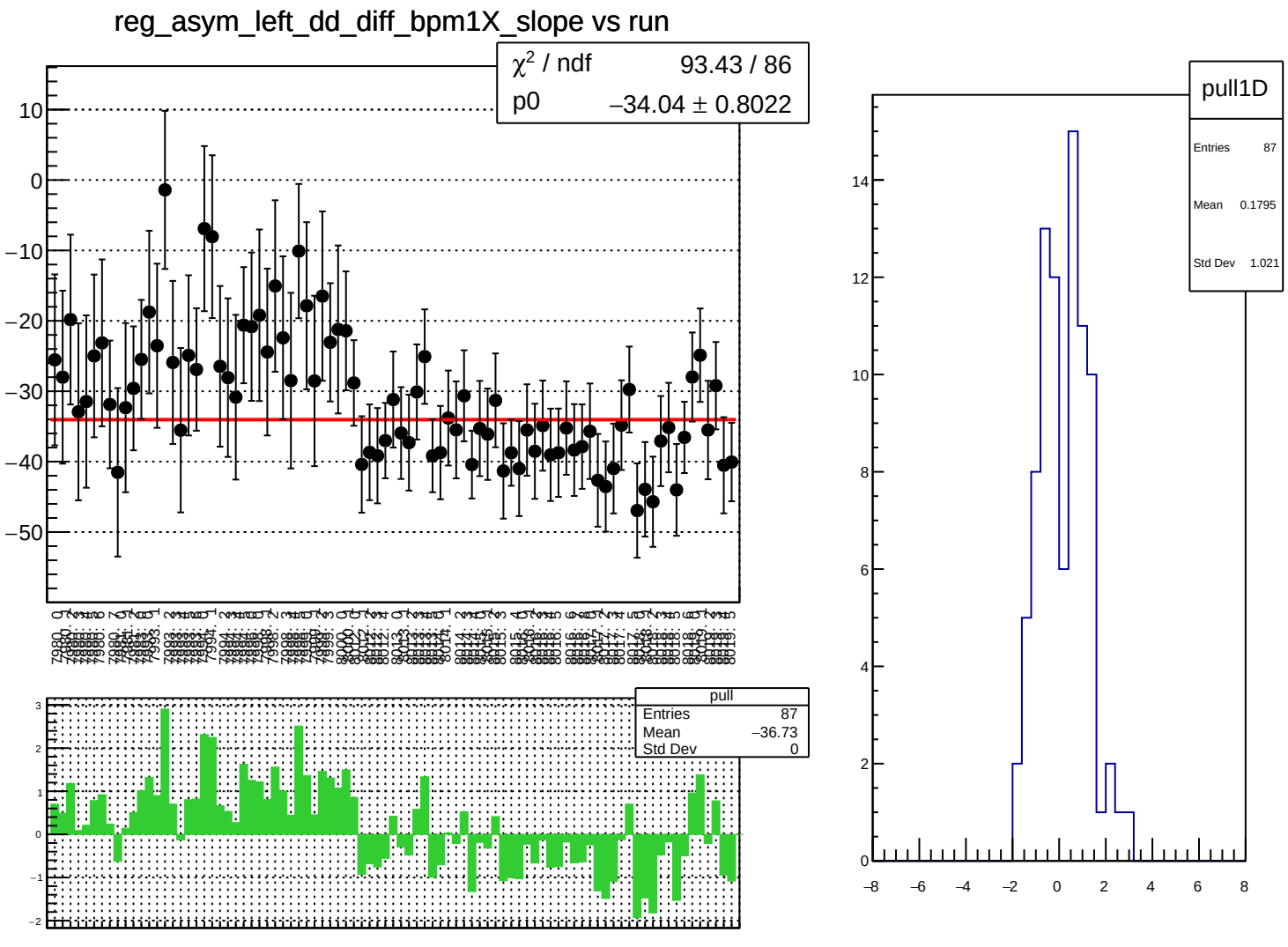

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.5 / 86
p0 −1.543 ± 0.8197
pull
Entries 87
Mean −48.26
Std Dev 0

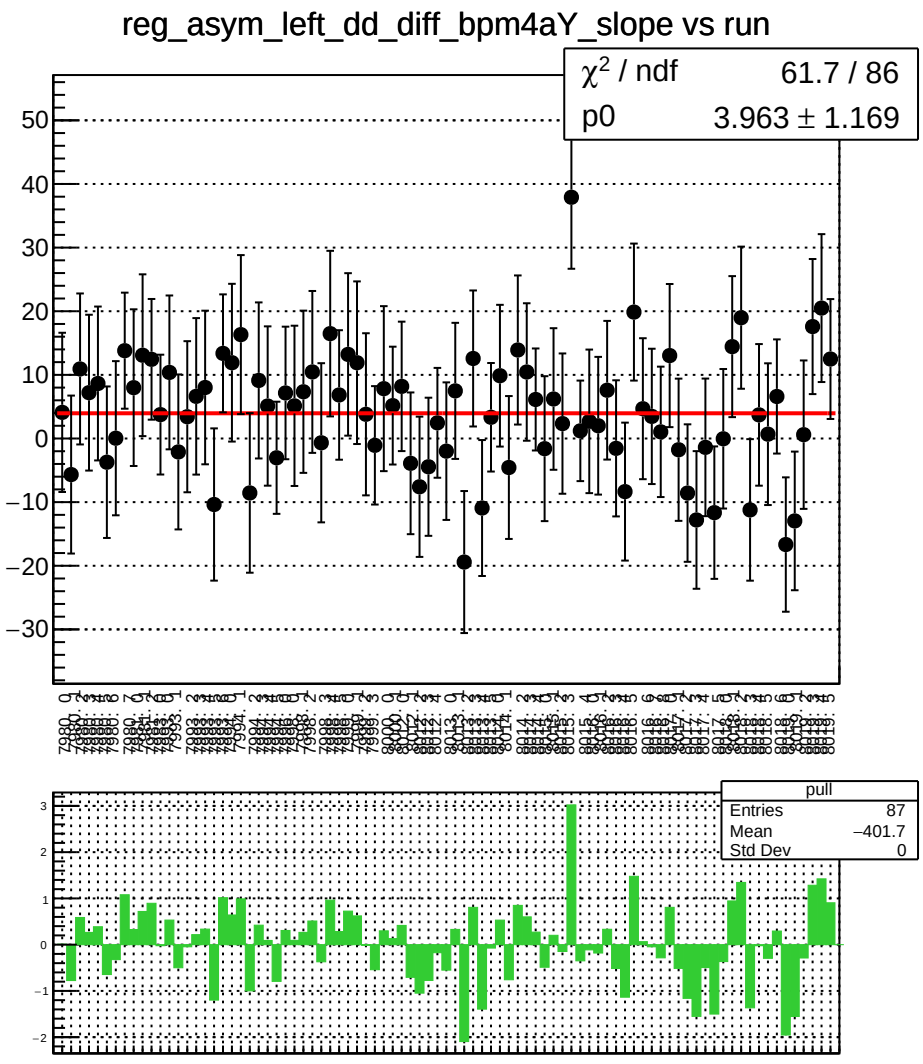

pull1D
Entries 87
Mean −0.1158
Std Dev 0.8532

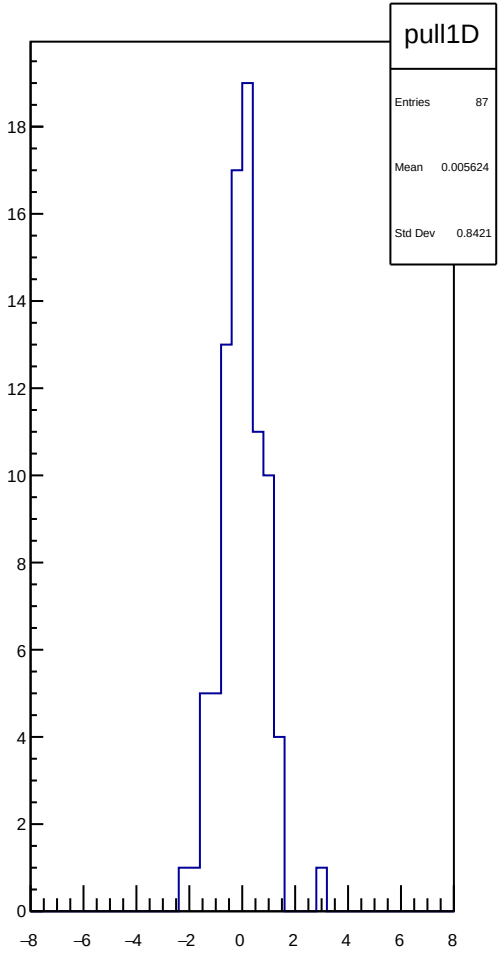

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.67 / 86
p0 5.934 ± 1.269
pull
Entries 87
Mean −246
Std Dev 0

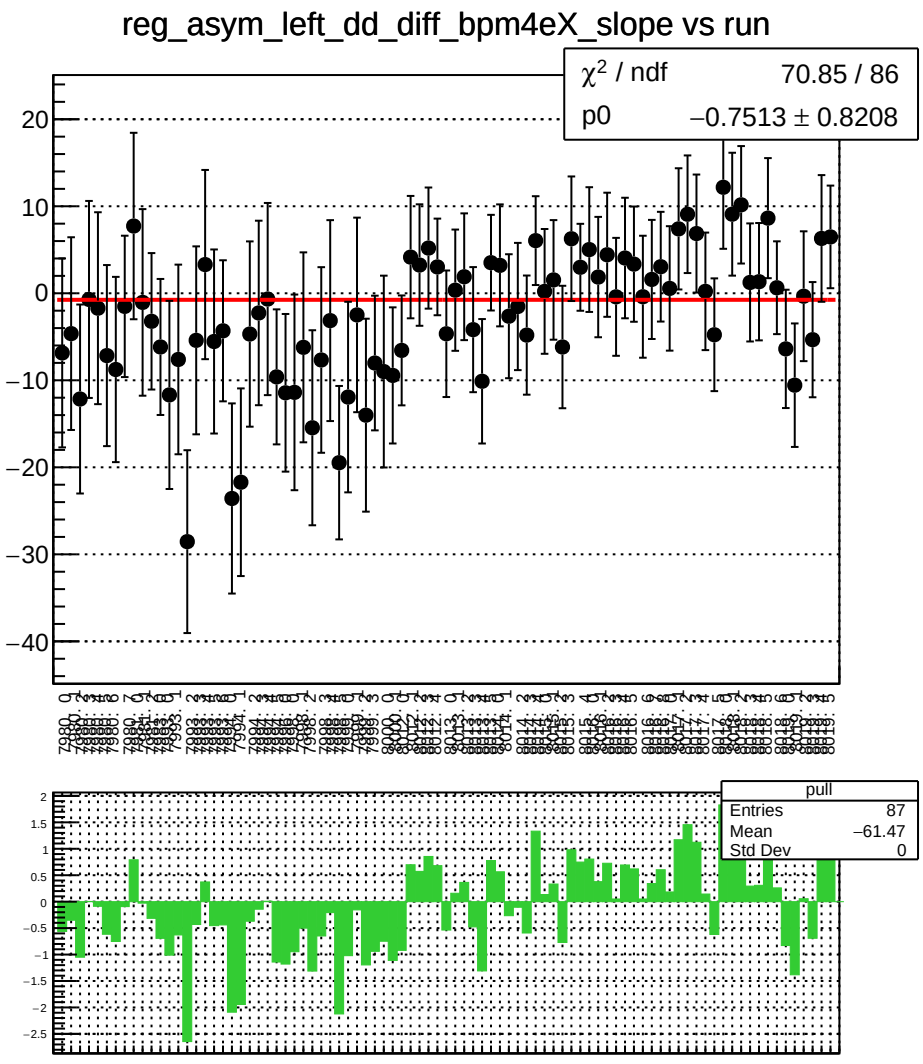

pull1D
Entries 87
Mean −0.01414
Std Dev 0.7705

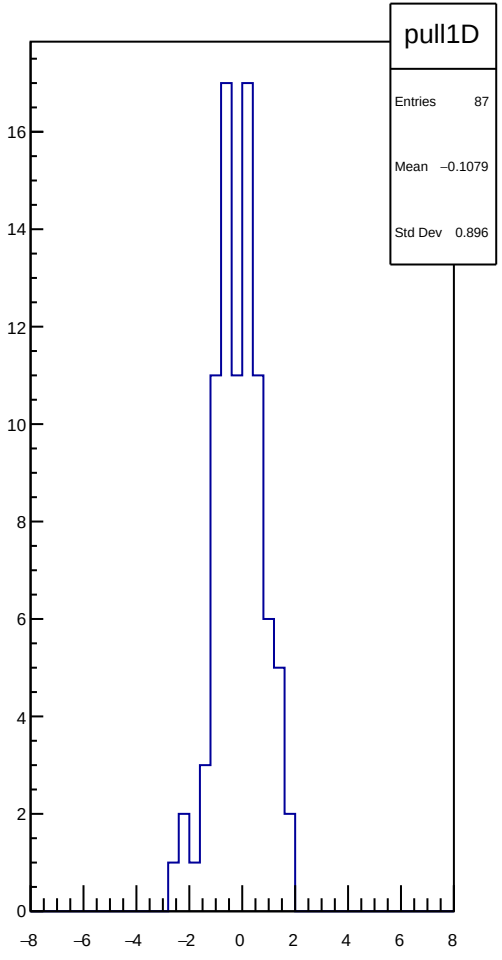

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 683.6 / 86
p0 −18.85 ± 0.04946
pull
Entries 87
Mean 116.5
Std Dev 0
pull1D
Entries 87
Mean −0.7477
Std Dev 2.702

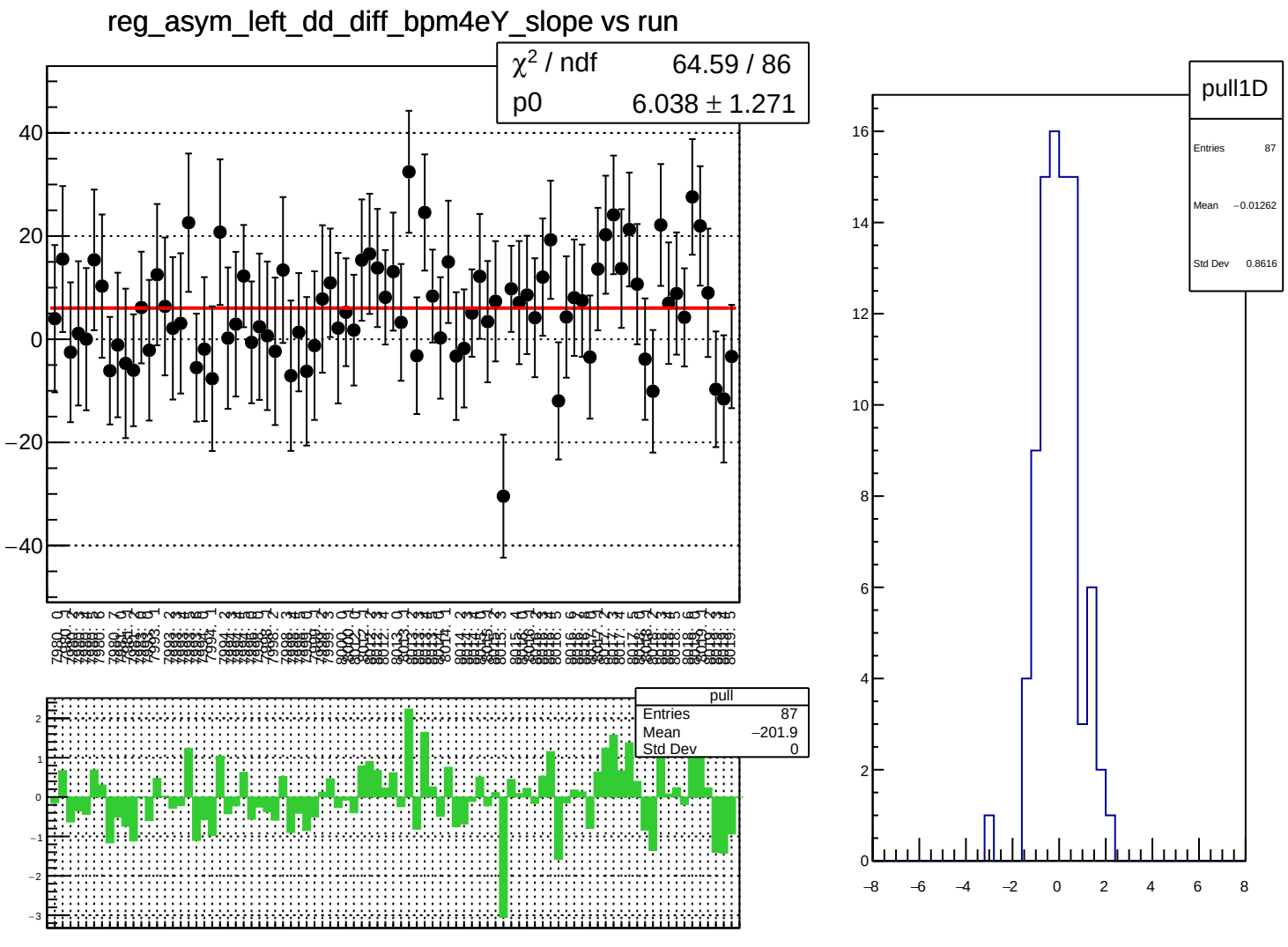

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 93.43 / 86
p0 −34.04 ± 0.8022
pull
Entries 87
Mean −36.73
Std Dev 0
pull1D
Entries 87
Mean 0.1795
Std Dev 1.021

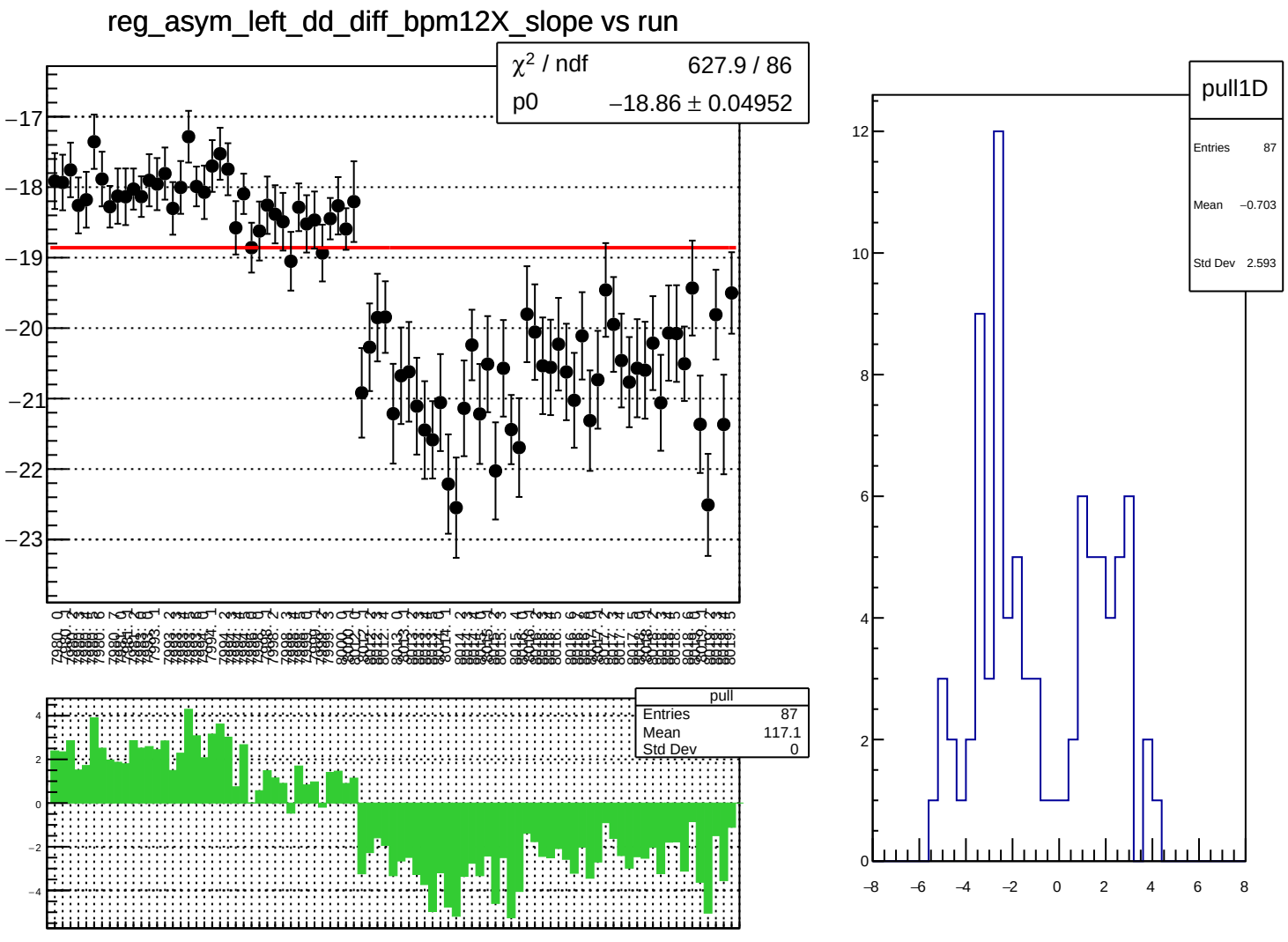

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.7 / 86
p0 3.963 ± 1.169
pull
Entries 87
Mean −401.7
Std Dev 0

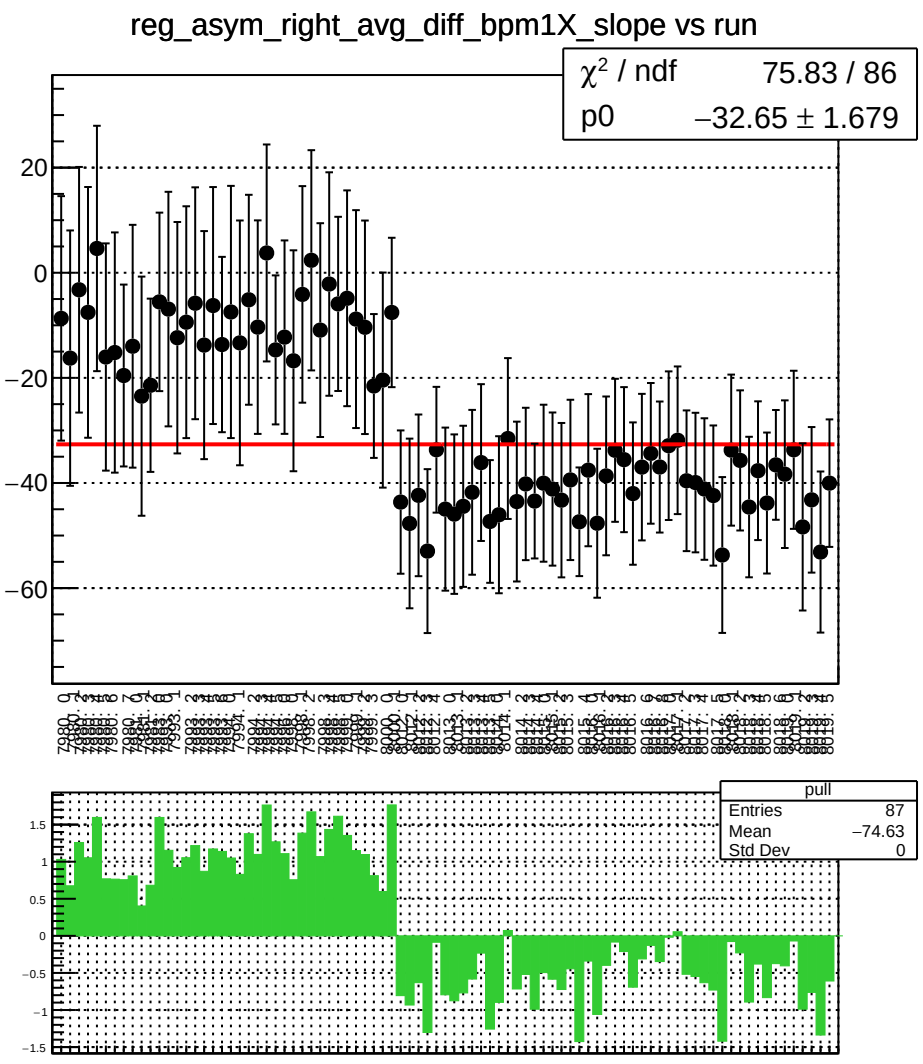

pull1D
Entries 87
Mean 0.005624
Std Dev 0.8421

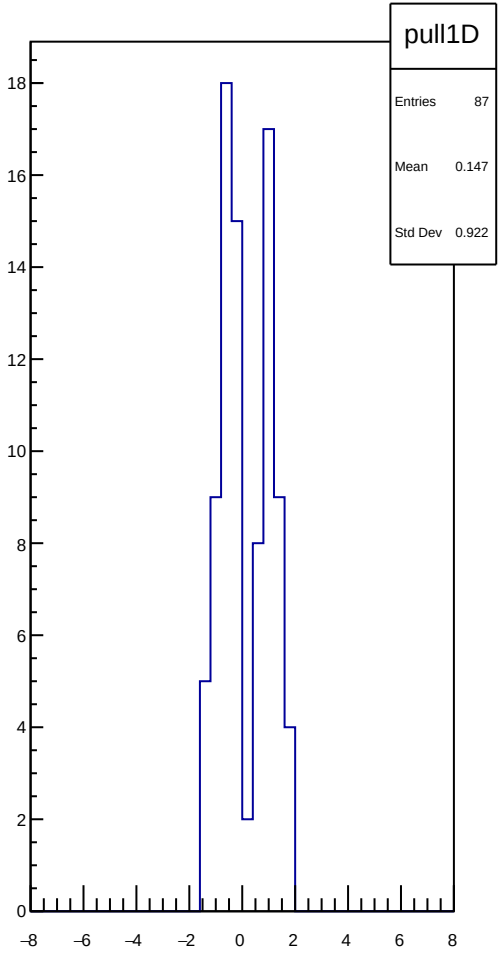

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.85 / 86
p0 −0.7513 ± 0.8208
pull
Entries 87
Mean −61.47
Std Dev 0

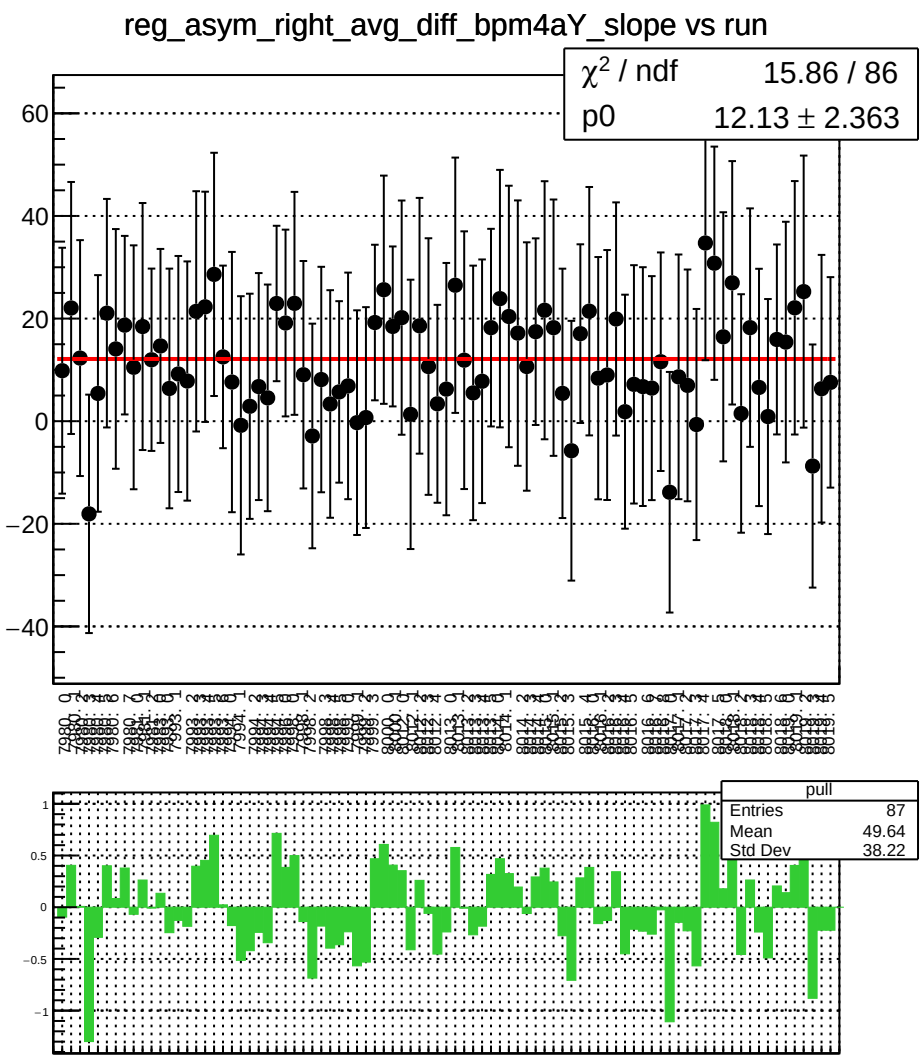

pull1D
Entries 87
Mean −0.1079
Std Dev 0.896

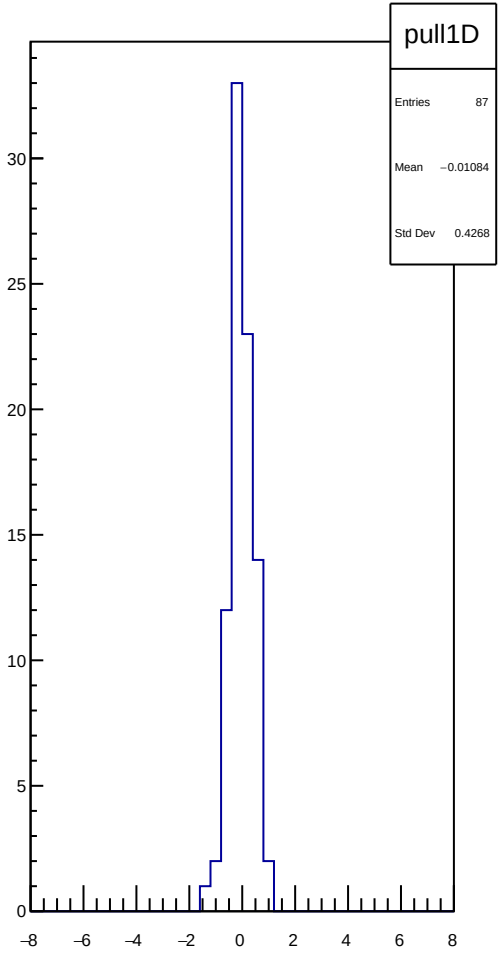

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.59 / 86
p0 6.038 ± 1.271
pull
Entries 87
Mean −201.9
Std Dev 0
pull1D
Entries 87
Mean −0.01262
Std Dev 0.8616

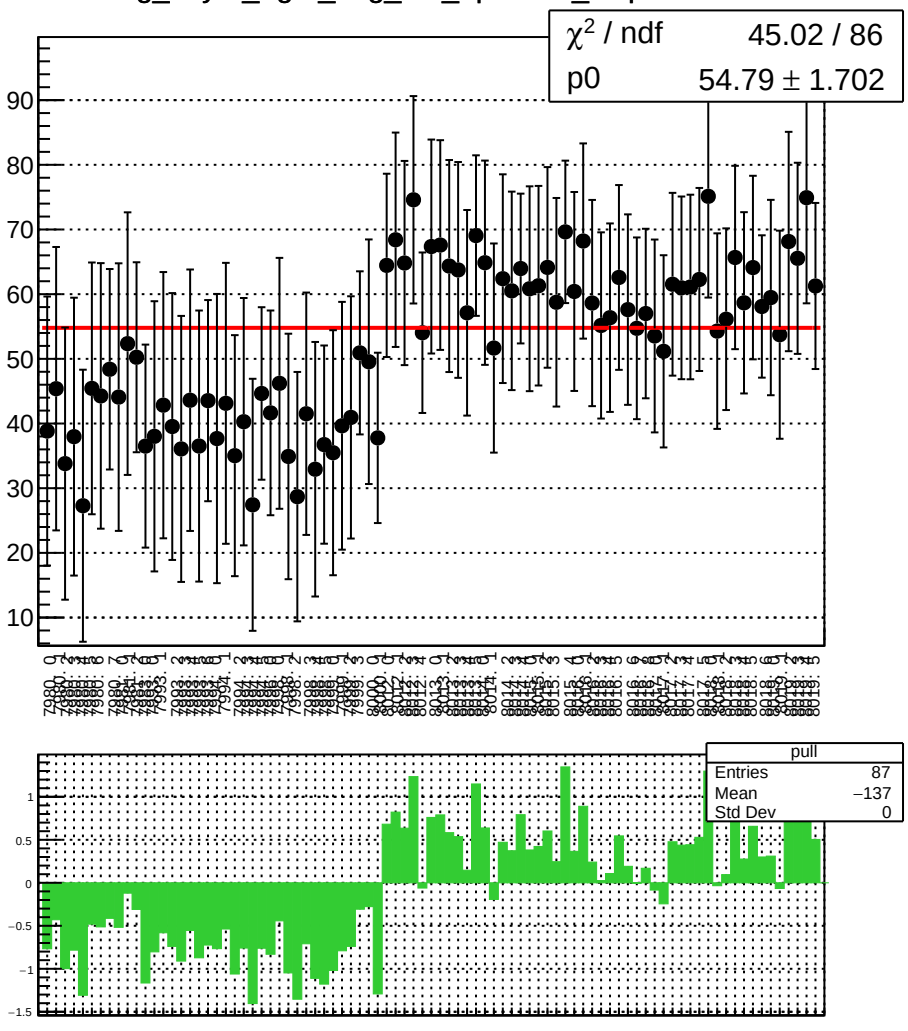

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 627.9 / 86
p0 −18.86 ± 0.04952
pull
Entries 87
Mean 117.1
Std Dev 0
pull1D
Entries 87
Mean −0.703
Std Dev 2.593

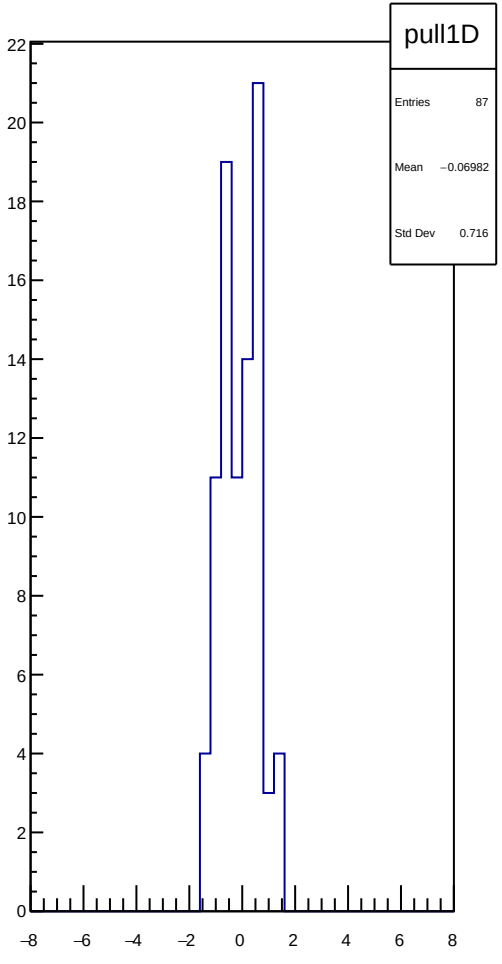

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 75.83 / 86
p0 −32.65 ± 1.679
pull
Entries 87
Mean −74.63
Std Dev 0

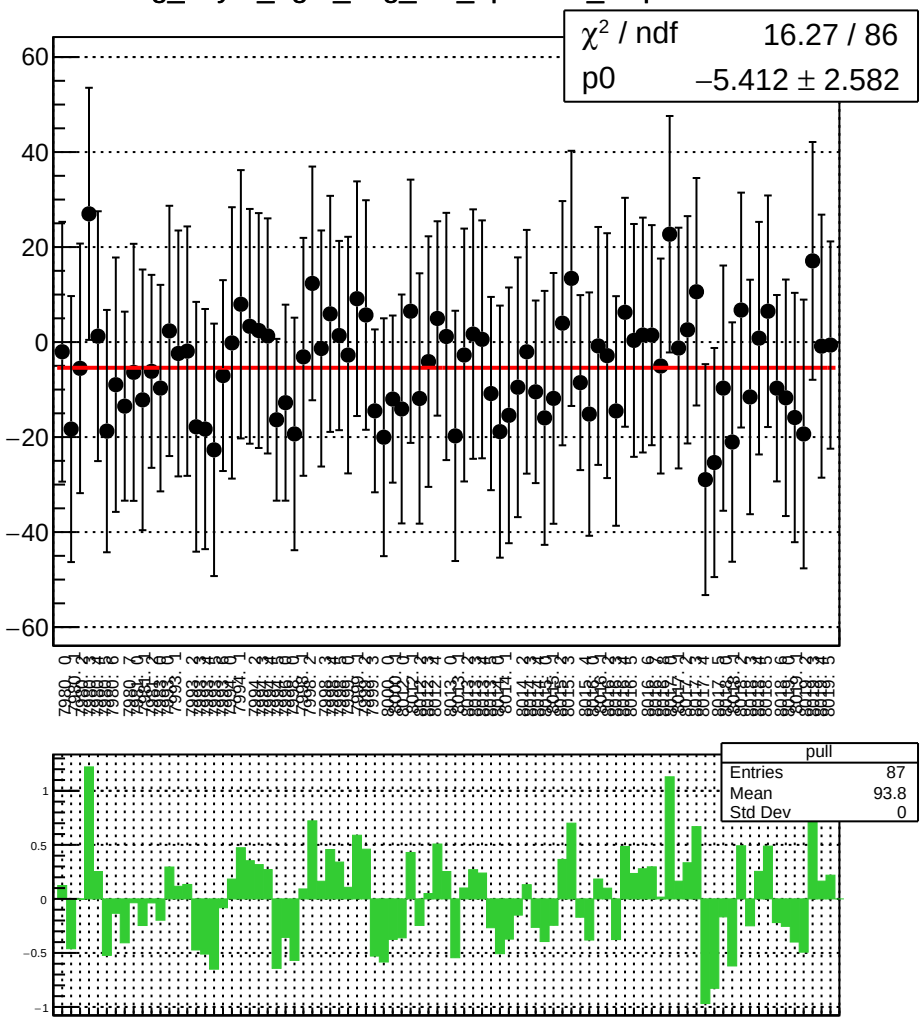

pull1D
Entries 87
Mean 0.147
Std Dev 0.922

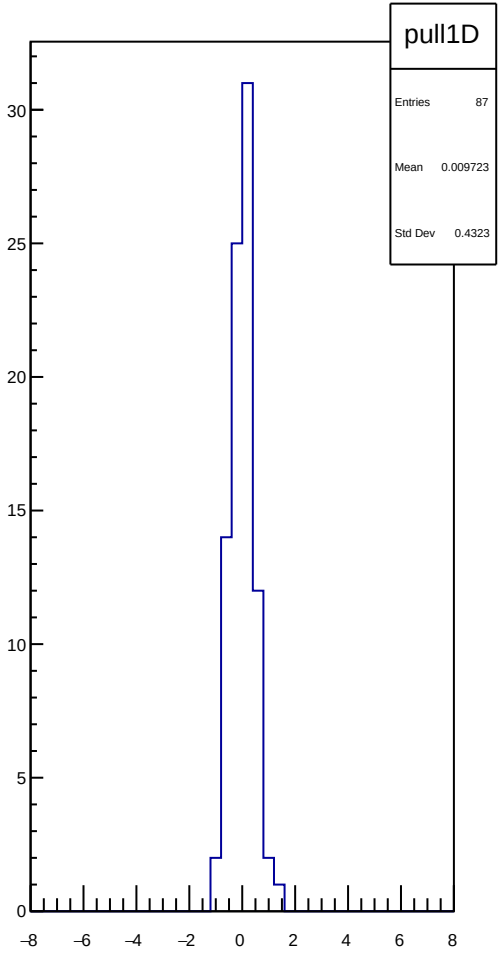

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.86 / 86
p0 12.13 ± 2.363
pull
Entries 87
Mean 49.64
Std Dev 38.22

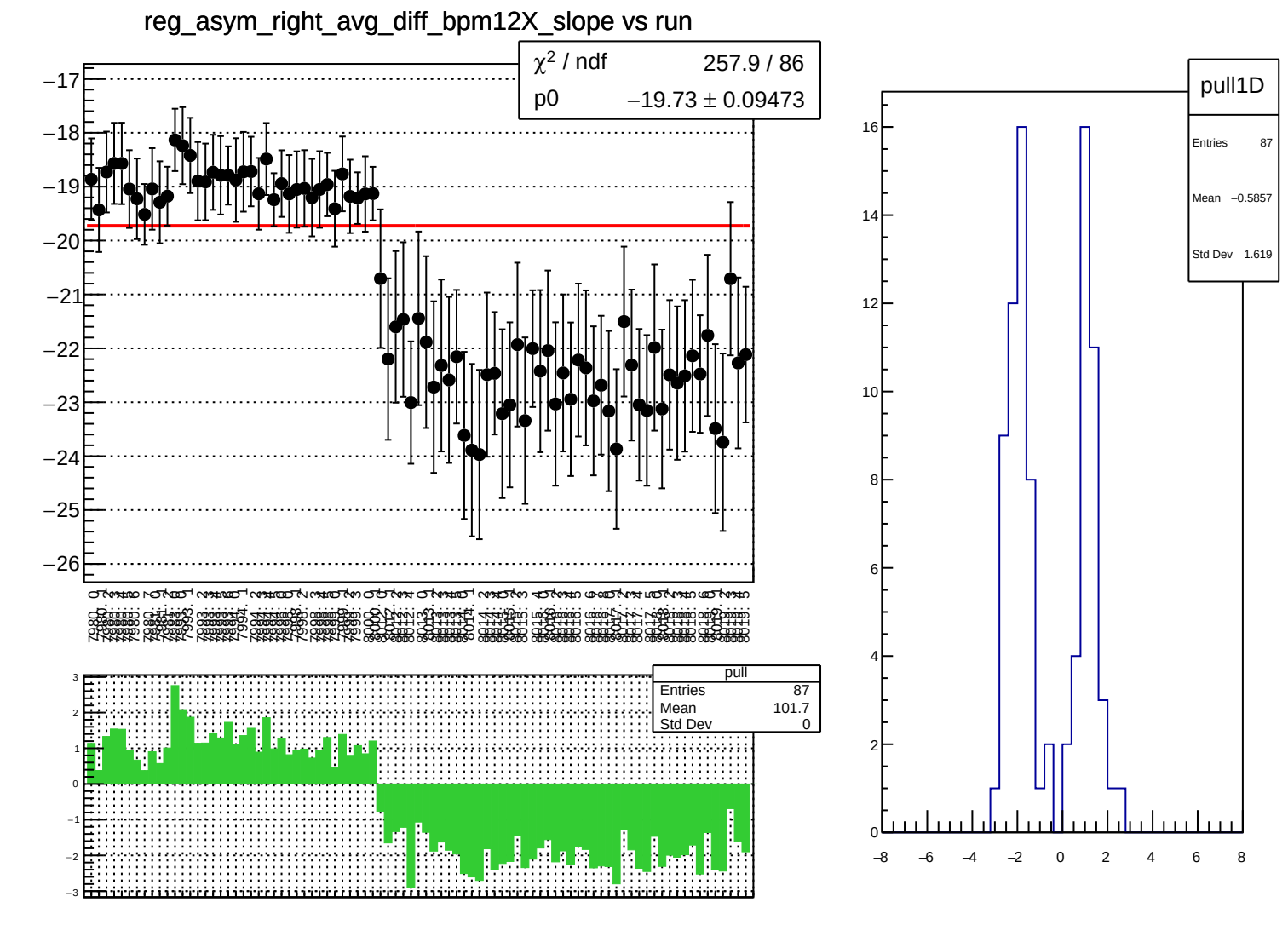

pull1D
Entries 87
Mean −0.01084
Std Dev 0.4268

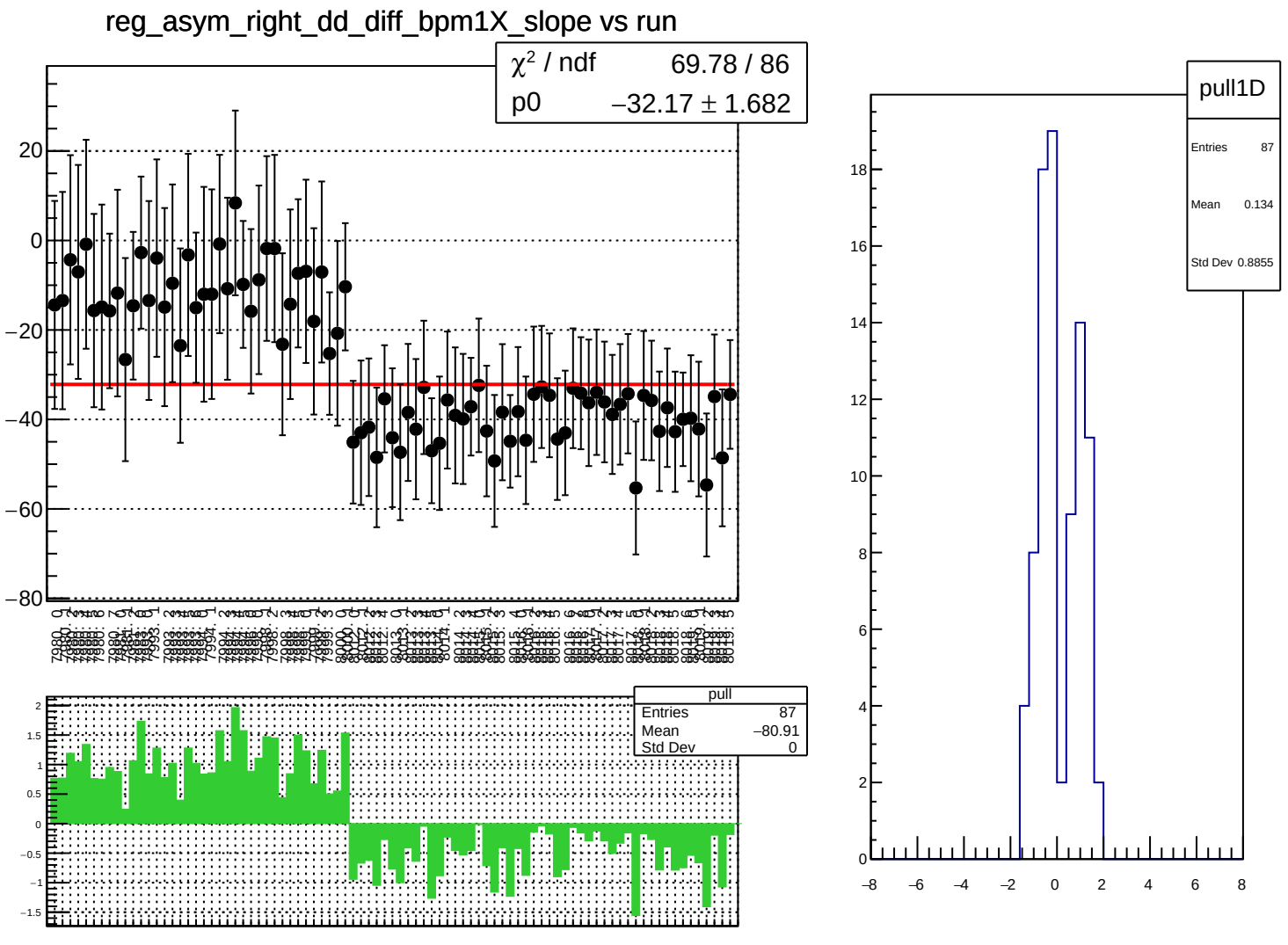

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.02 / 86
p0 54.79 ± 1.702
pull
Entries 87
Mean −137
Std Dev 0

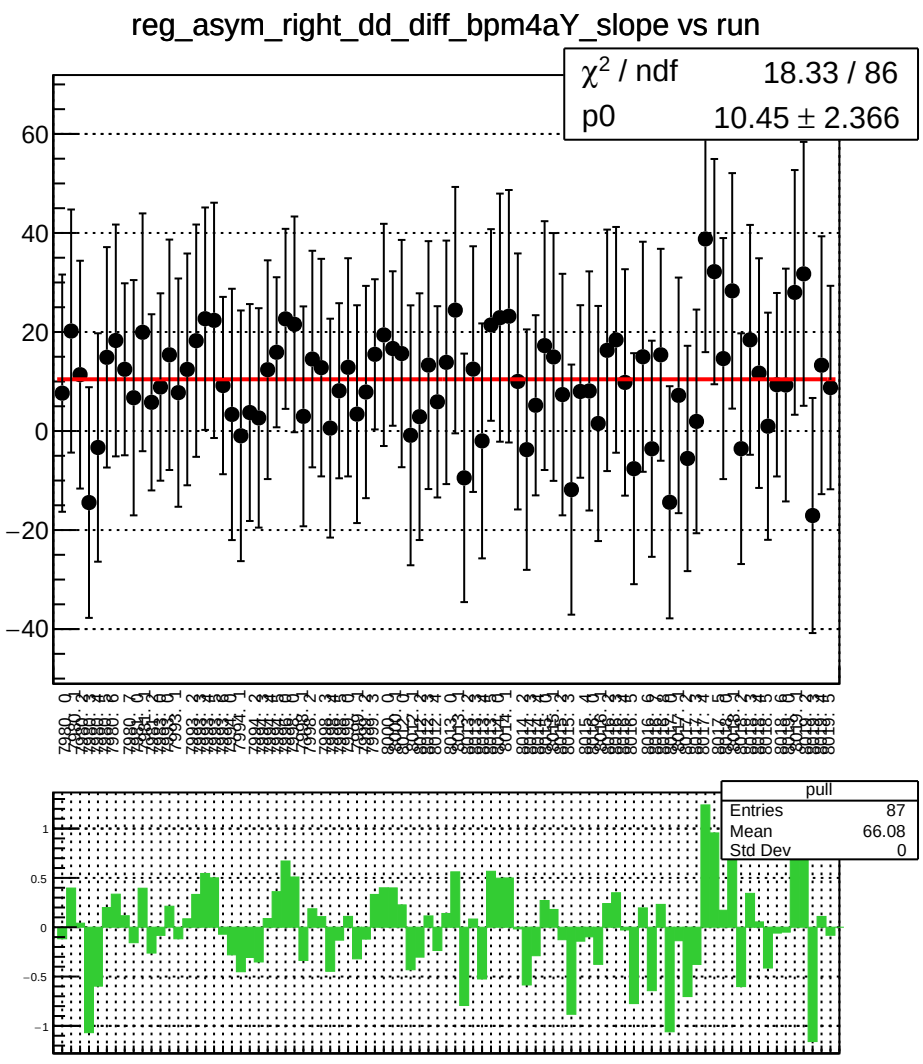

pull1D
Entries 87
Mean −0.06982
Std Dev 0.716

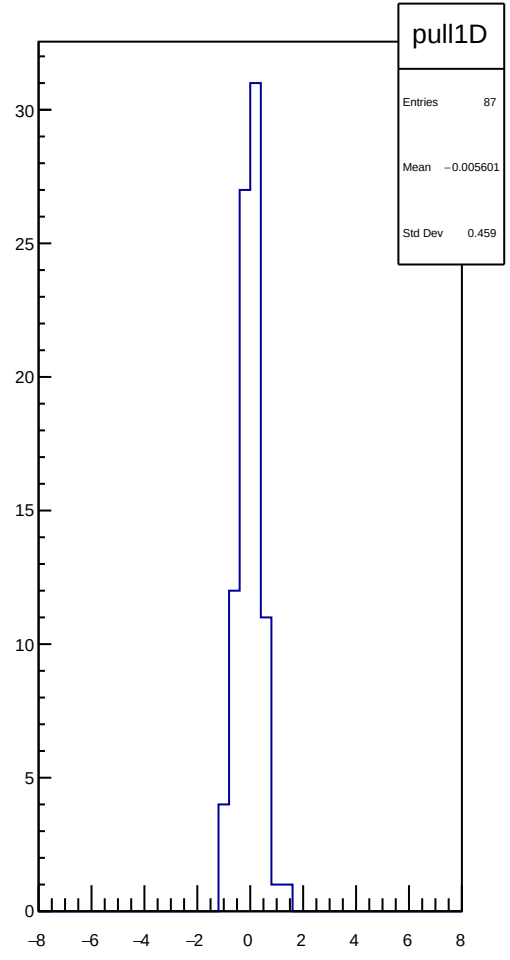

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.27 / 86
p0 −5.412 ± 2.582
pull
Entries 87
Mean 93.8
Std Dev 0

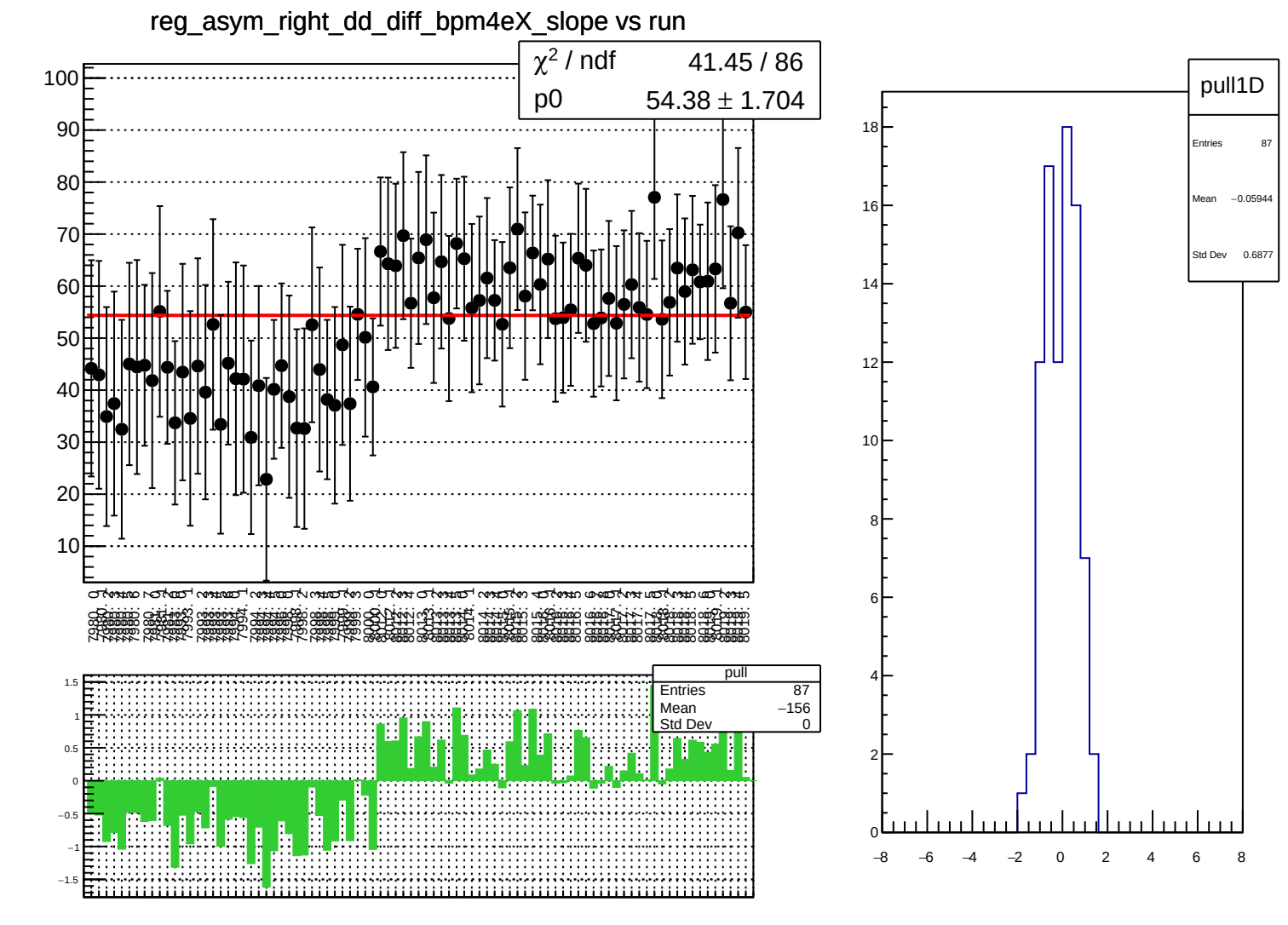

pull1D
Entries 87
Mean 0.009723
Std Dev 0.4323

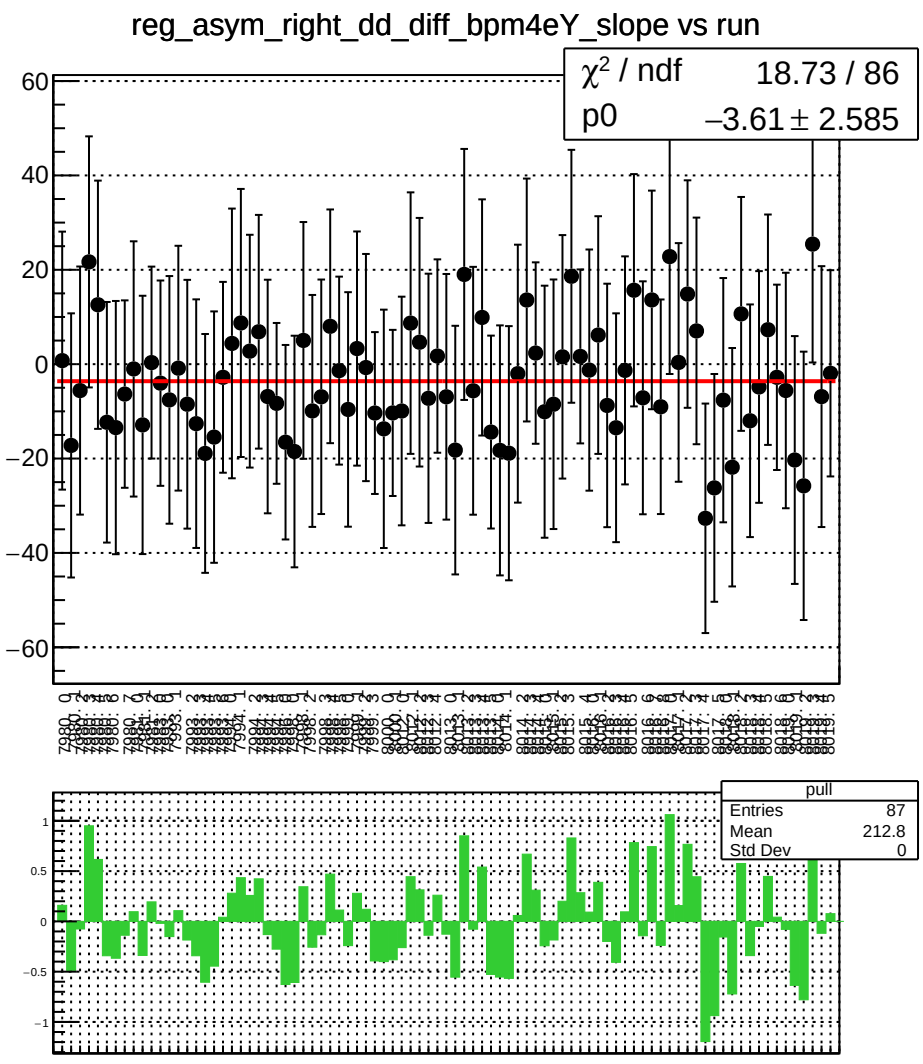

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 257.9 / 86
p0 −19.73 ± 0.09473
pull
Entries 87
Mean 101.7
Std Dev 0
pull1D
Entries 87
Mean −0.5857
Std Dev 1.619

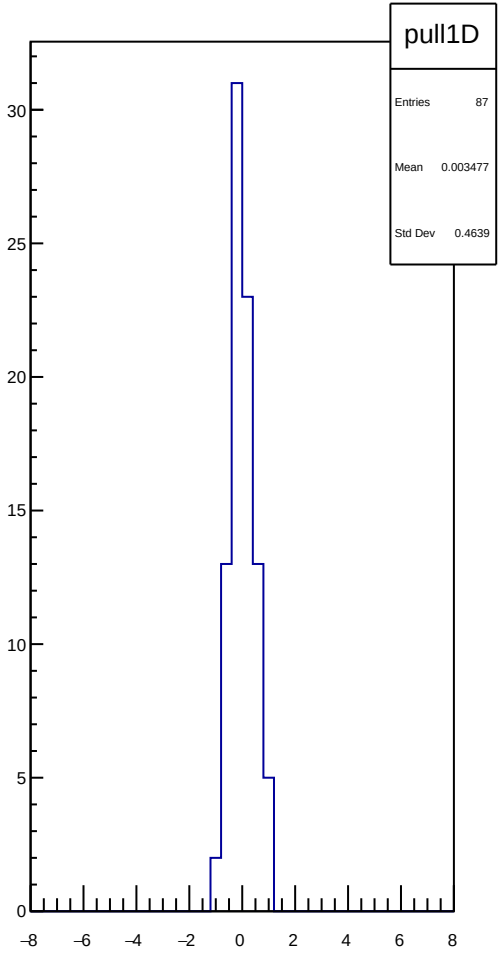

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 69.78 / 86
p0 −32.17 ± 1.682
pull
Entries 87
Mean −80.91
Std Dev 0
pull1D
Entries 87
Mean 0.134
Std Dev 0.8855

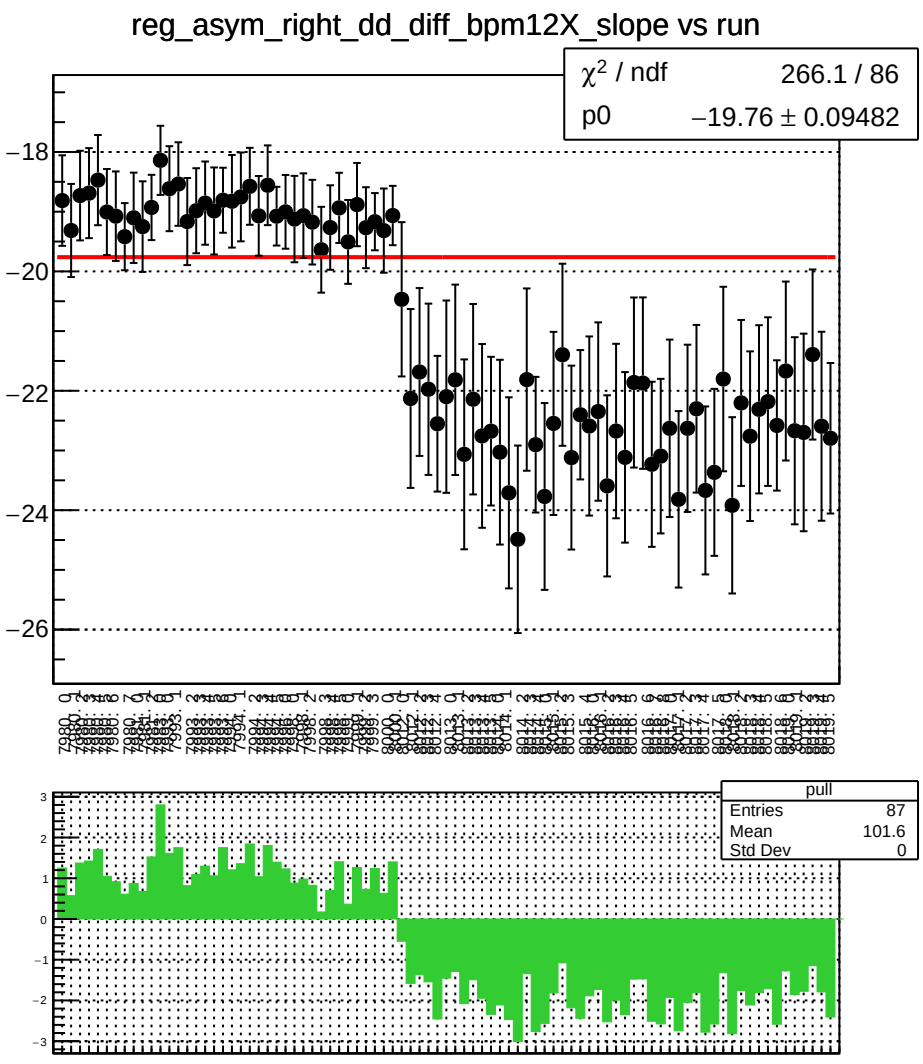

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.33 / 86
p0 10.45 ± 2.366
pull
Entries 87
Mean 66.08
Std Dev 0

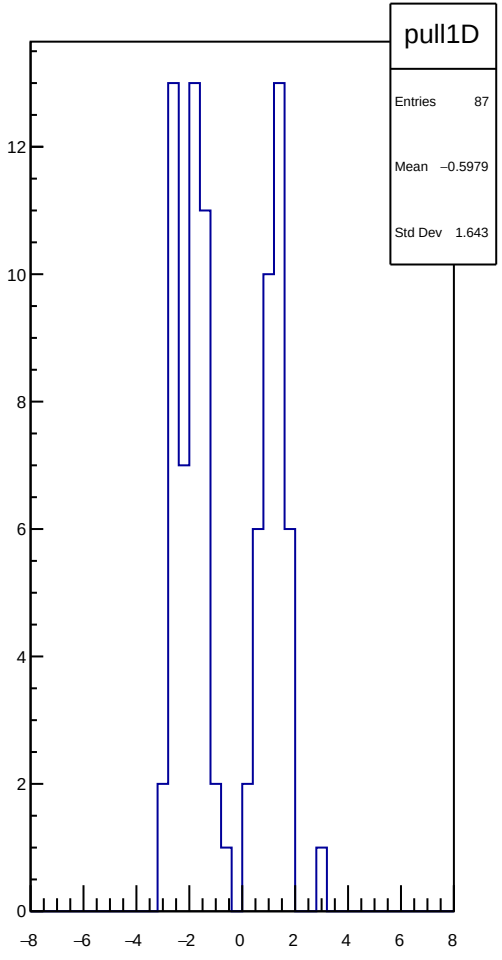

pull1D
Entries 87
Mean −0.005601
Std Dev 0.459

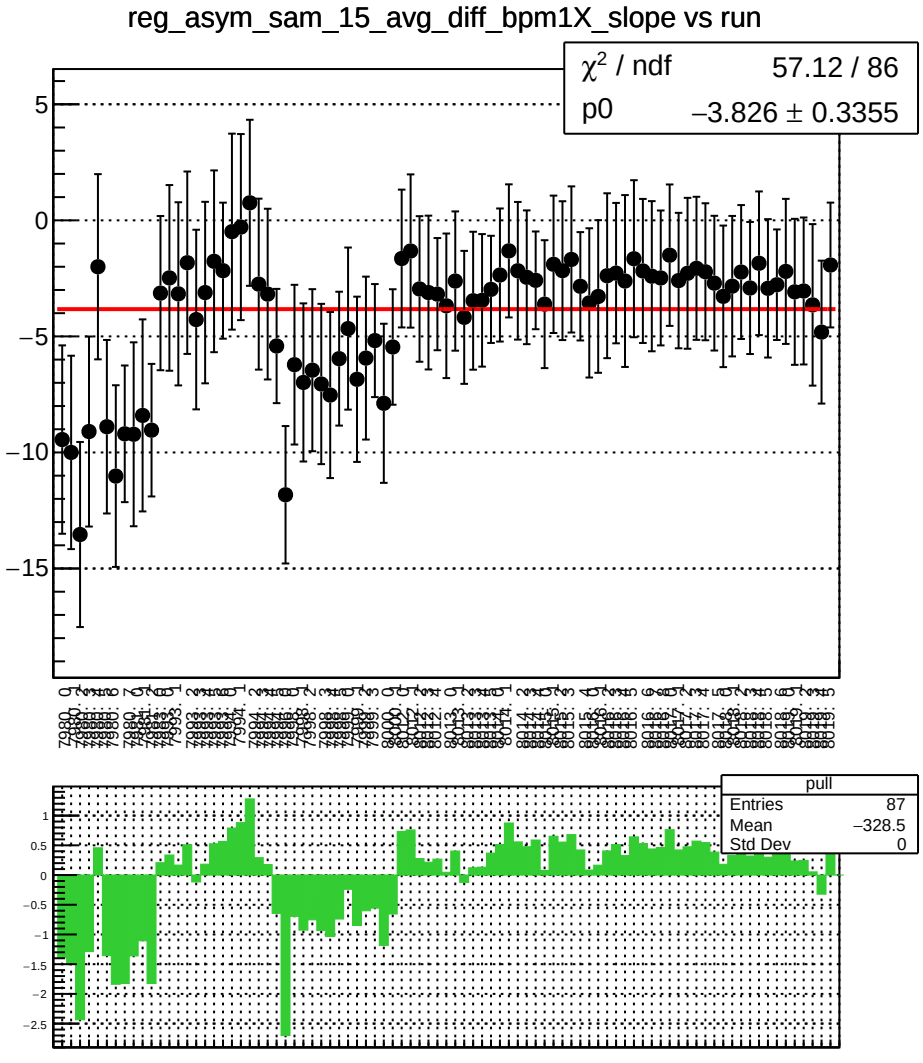

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.45 / 86
p0 54.38 ± 1.704
pull
Entries 87
Mean −156
Std Dev 0
pull1D
Entries 87
Mean −0.05944
Std Dev 0.6877

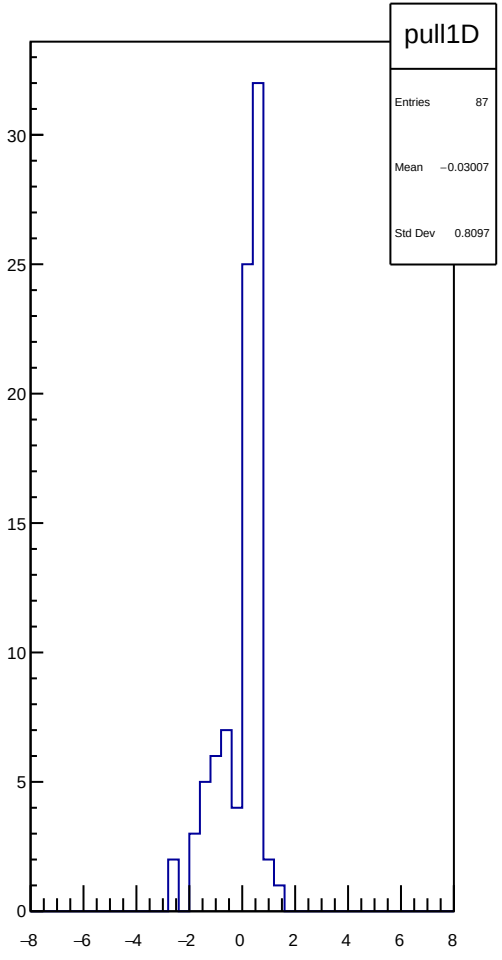

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.73 / 86
p0 −3.61 ± 2.585
pull
Entries 87
Mean 212.8
Std Dev 0

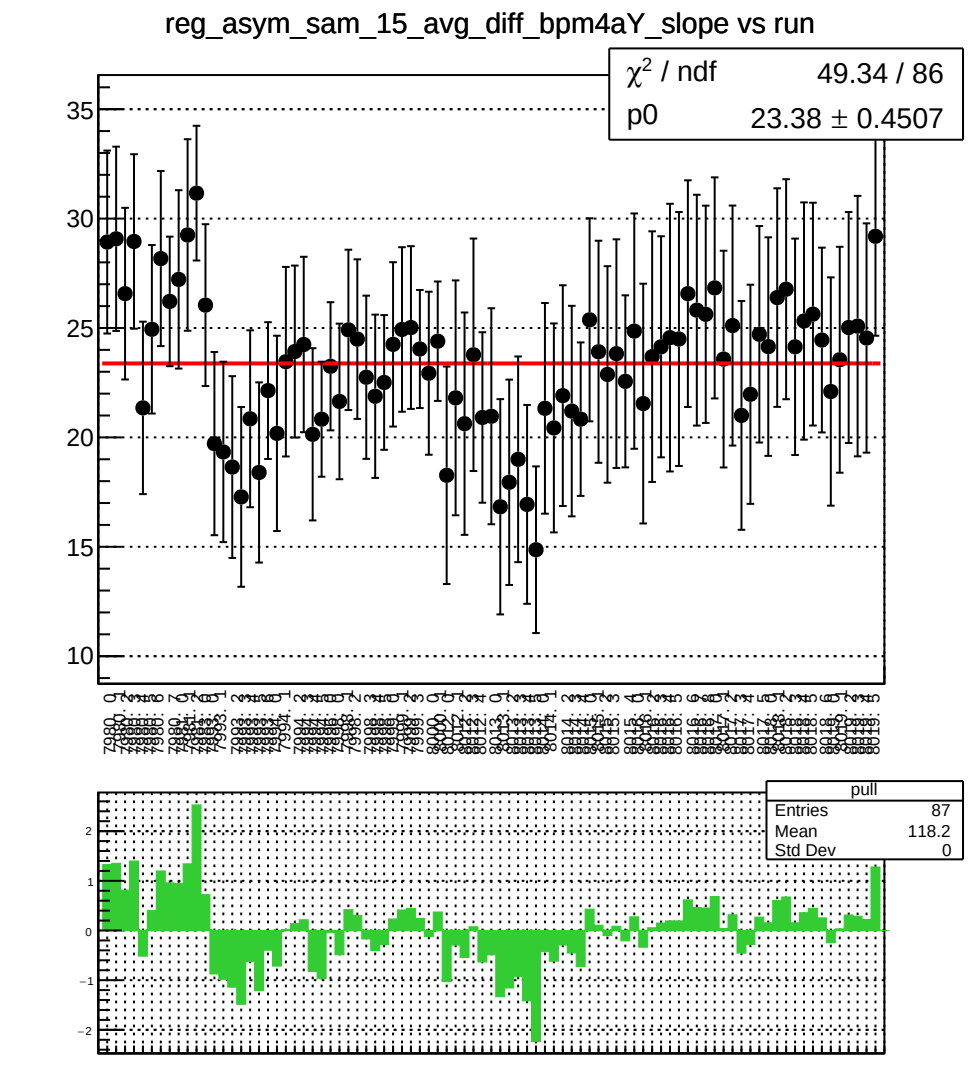

pull1D
Entries 87
Mean 0.003477
Std Dev 0.4639

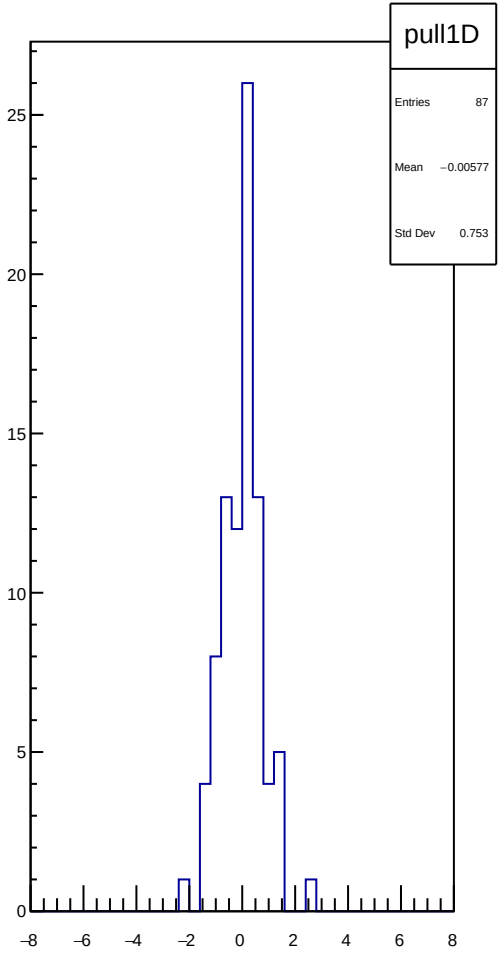

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 266.1 / 86
p0 −19.76 ± 0.09482
pull
Entries 87
Mean 101.6
Std Dev 0

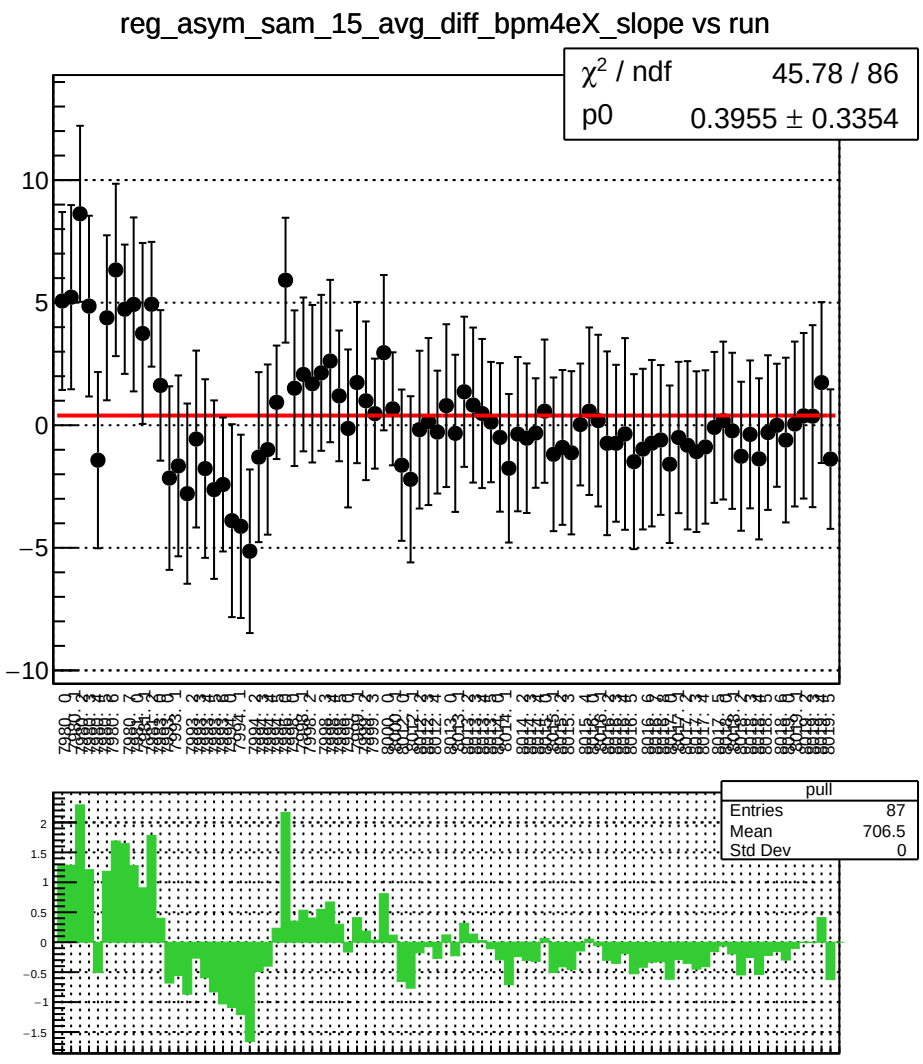

pull1D
Entries 87
Mean −0.5979
Std Dev 1.643

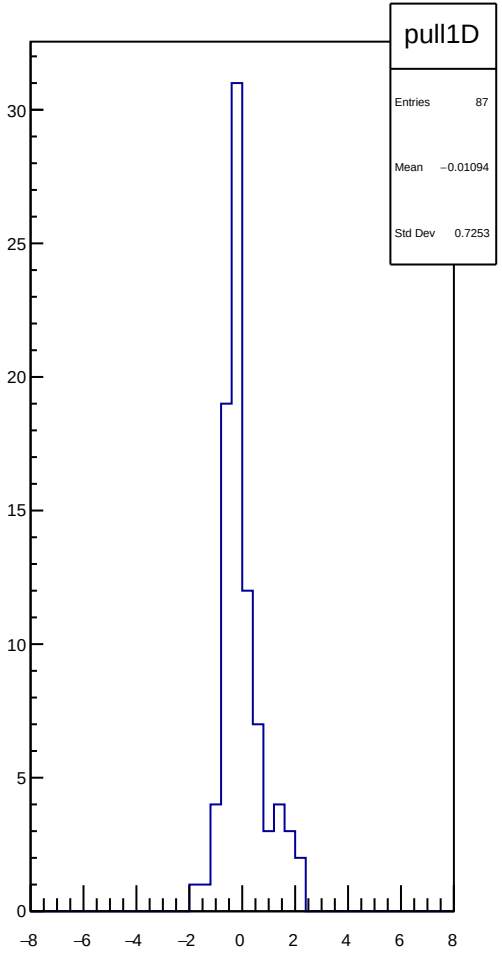

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 57.12 / 86
p0 −3.826 ± 0.3355
pull
Entries 87
Mean −328.5
Std Dev 0

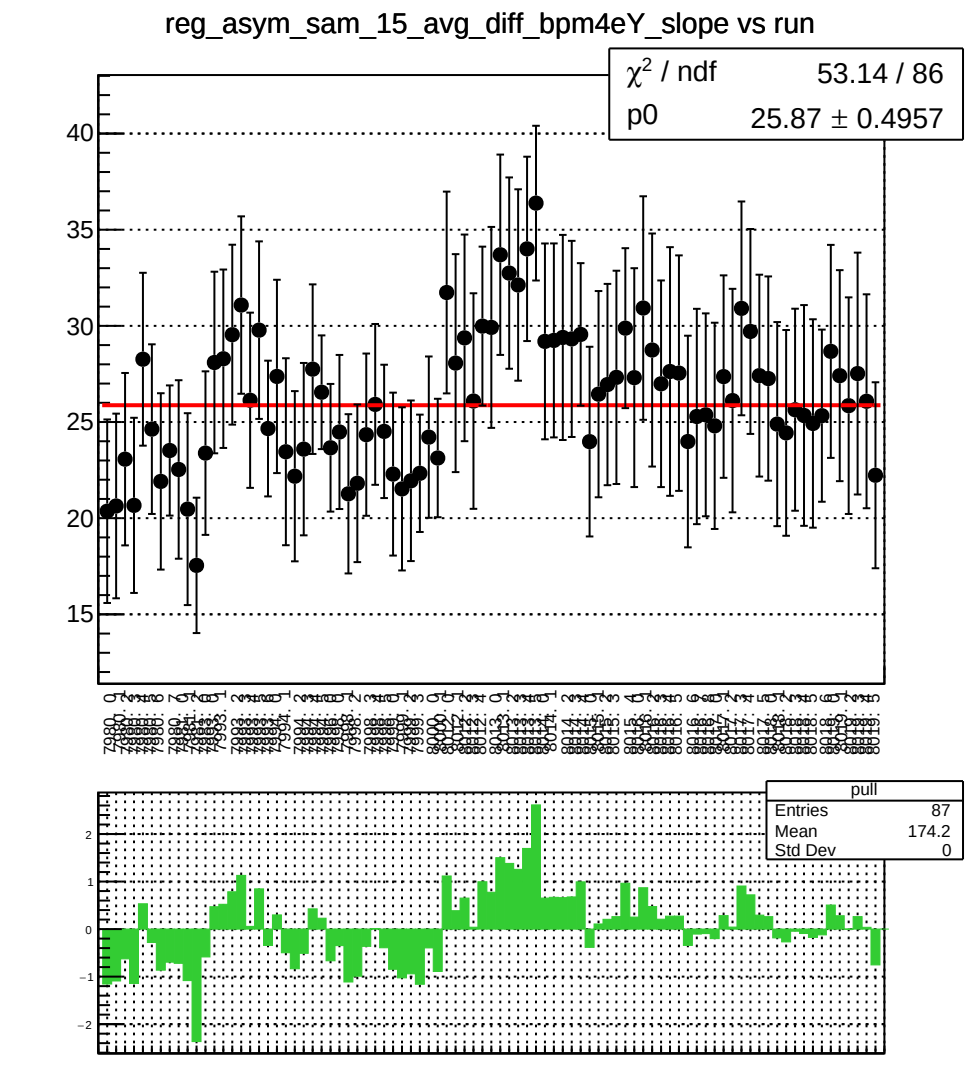

pull1D
Entries 87
Mean −0.03007
Std Dev 0.8097

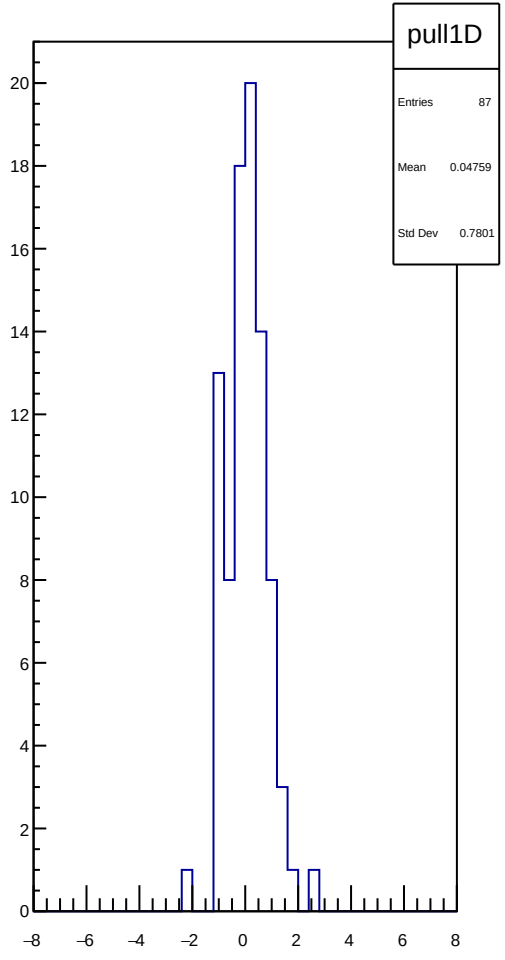

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.34 / 86
p0 23.38 ± 0.4507
pull
Entries 87
Mean 118.2
Std Dev 0

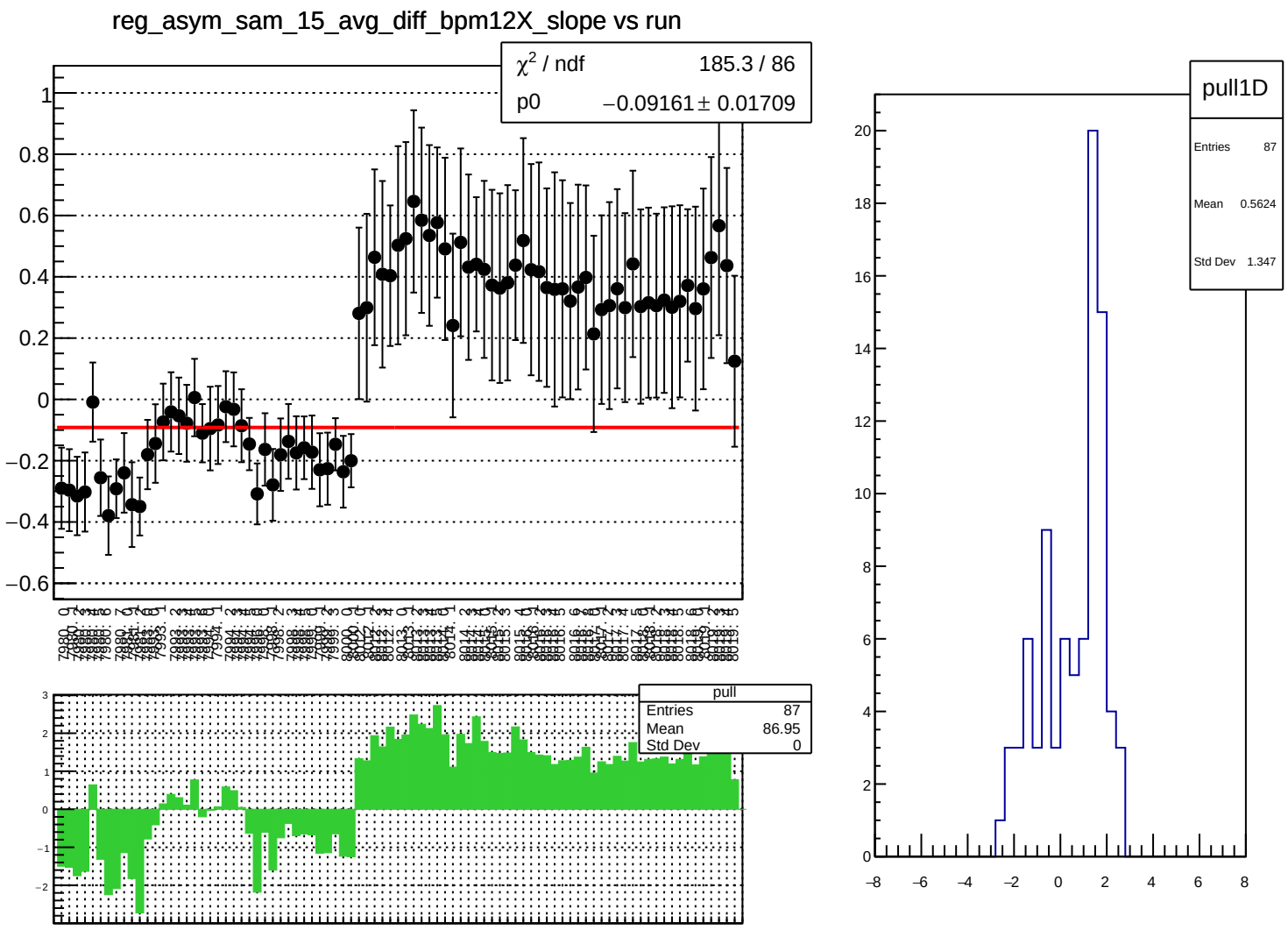

pull1D
Entries 87
Mean −0.00577
Std Dev 0.753

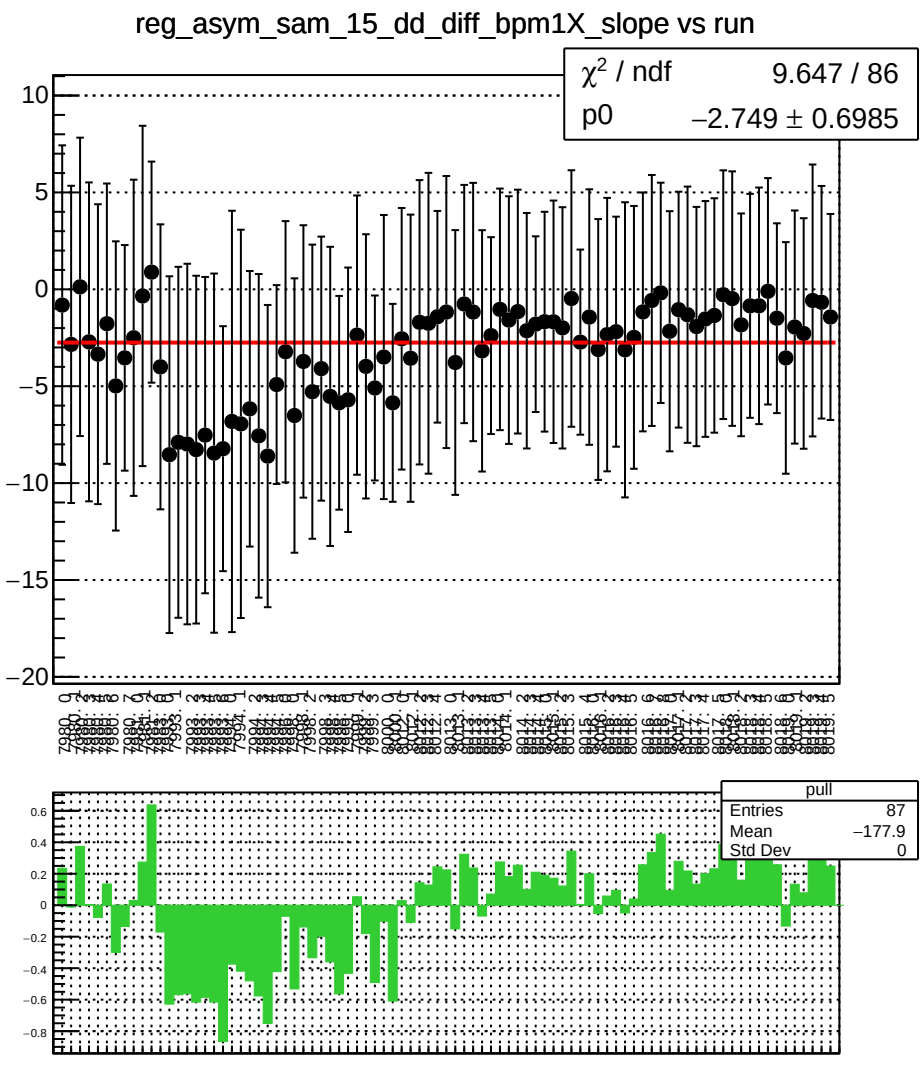

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.78 / 86
p0 0.3955 ± 0.3354
pull
Entries 87
Mean 706.5
Std Dev 0

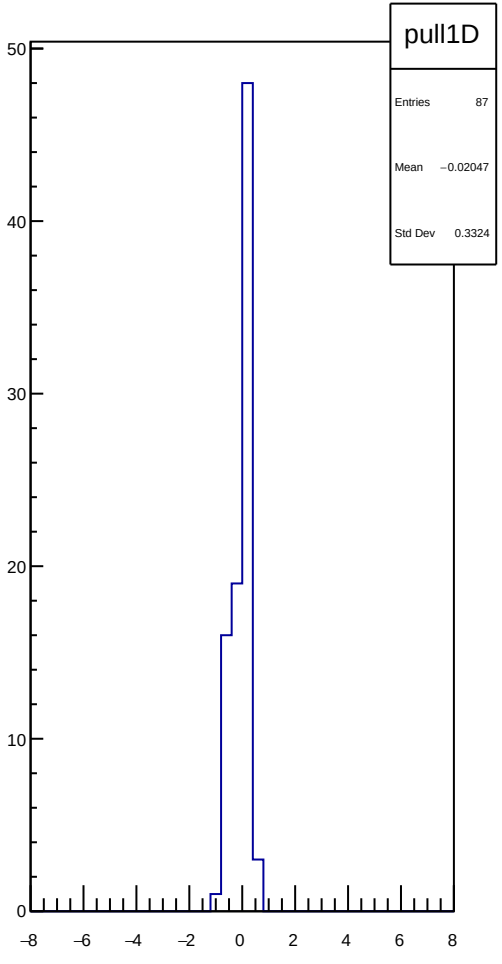

pull1D
Entries 87
Mean −0.01094
Std Dev 0.7253

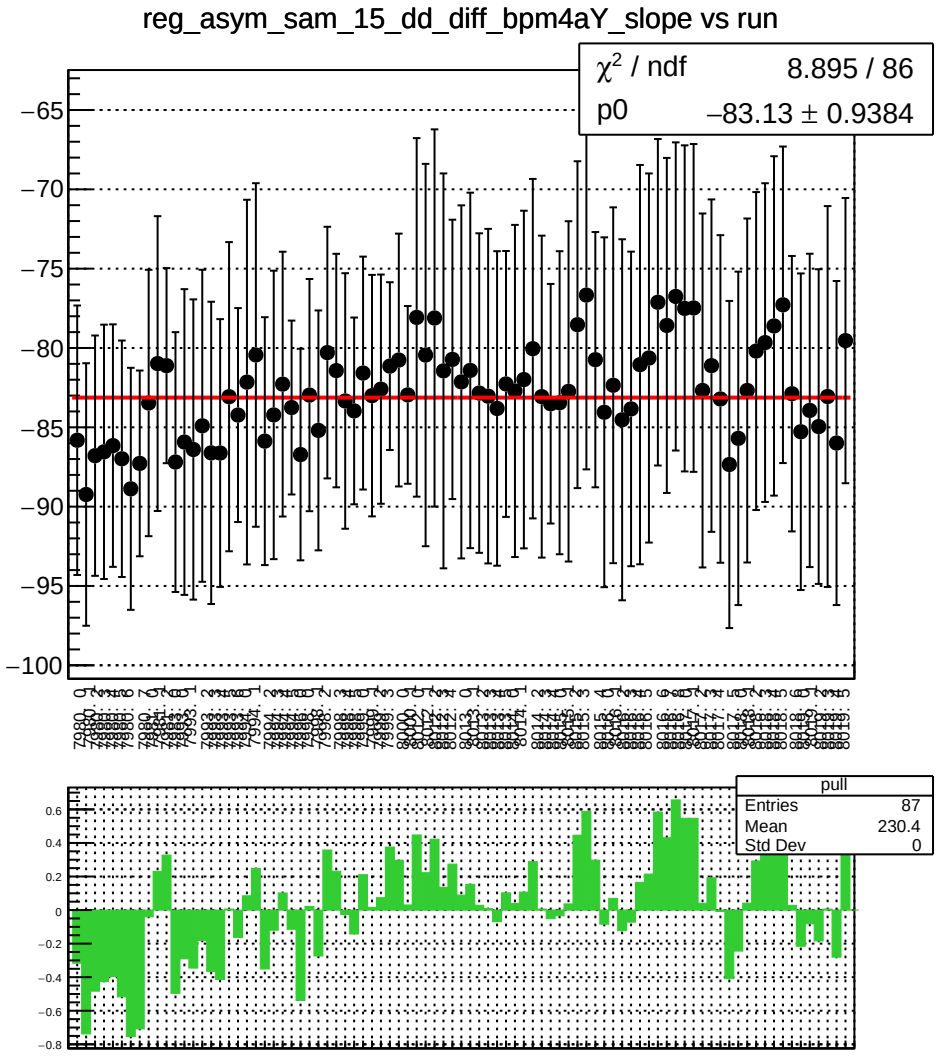

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.14 / 86
p0 25.87 ± 0.4957
pull
Entries 87
Mean 174.2
Std Dev 0

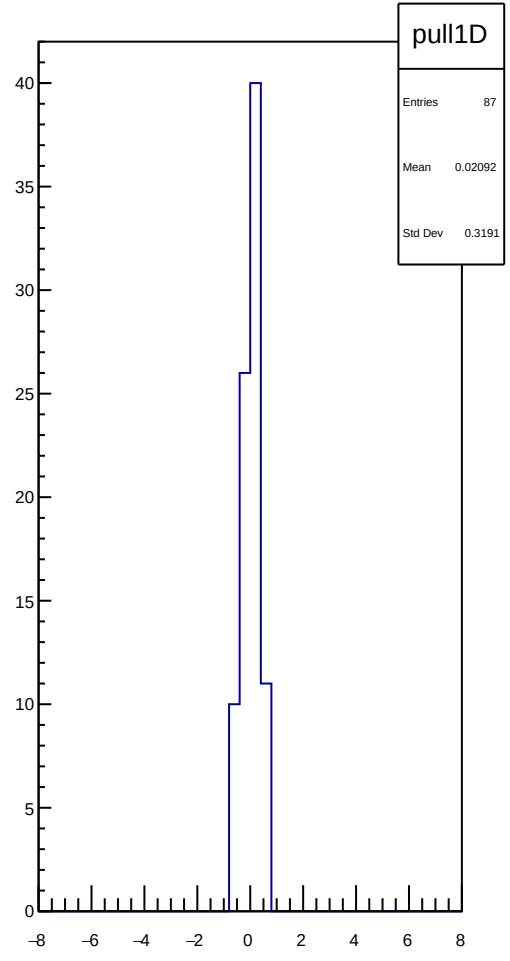

pull1D
Entries 87
Mean 0.04759
Std Dev 0.7801

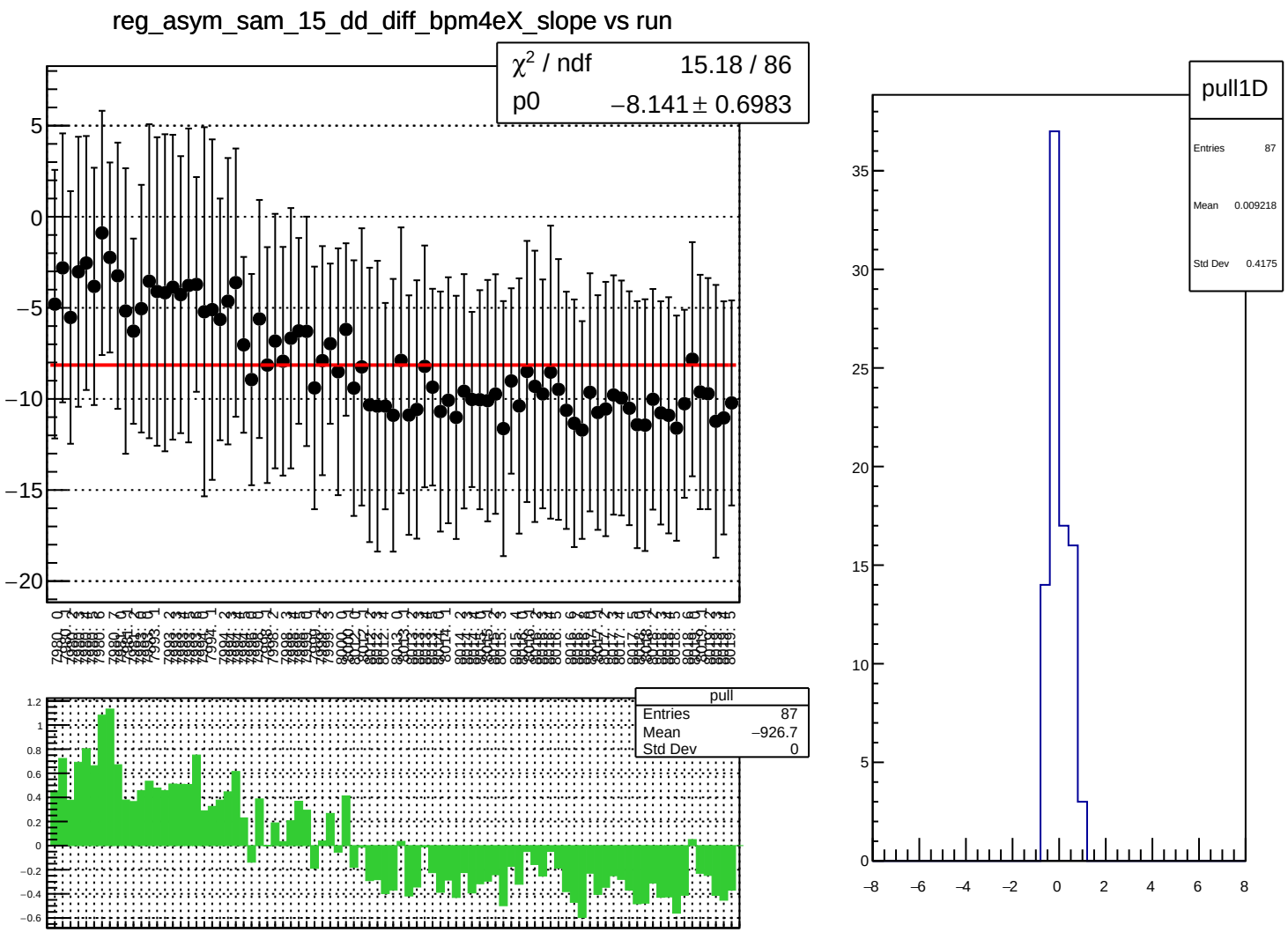

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 185.3 / 86
p0 −0.09161 ± 0.01709
pull
Entries 87
Mean 86.95
Std Dev 0
pull1D
Entries 87
Mean 0.5624
Std Dev 1.347

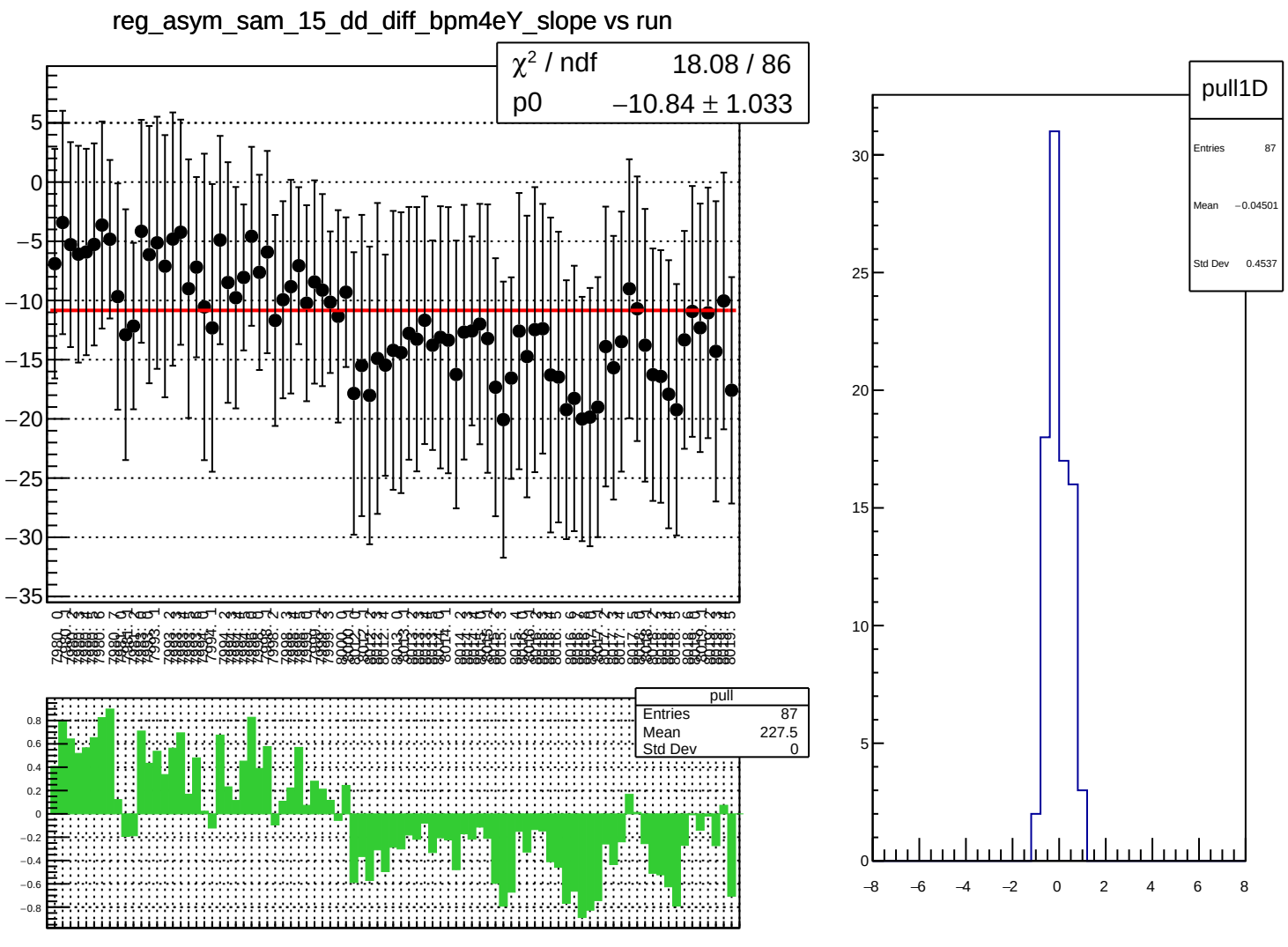

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 9.647 / 86
p0 −2.749 ± 0.6985
pull
Entries 87
Mean −177.9
Std Dev 0

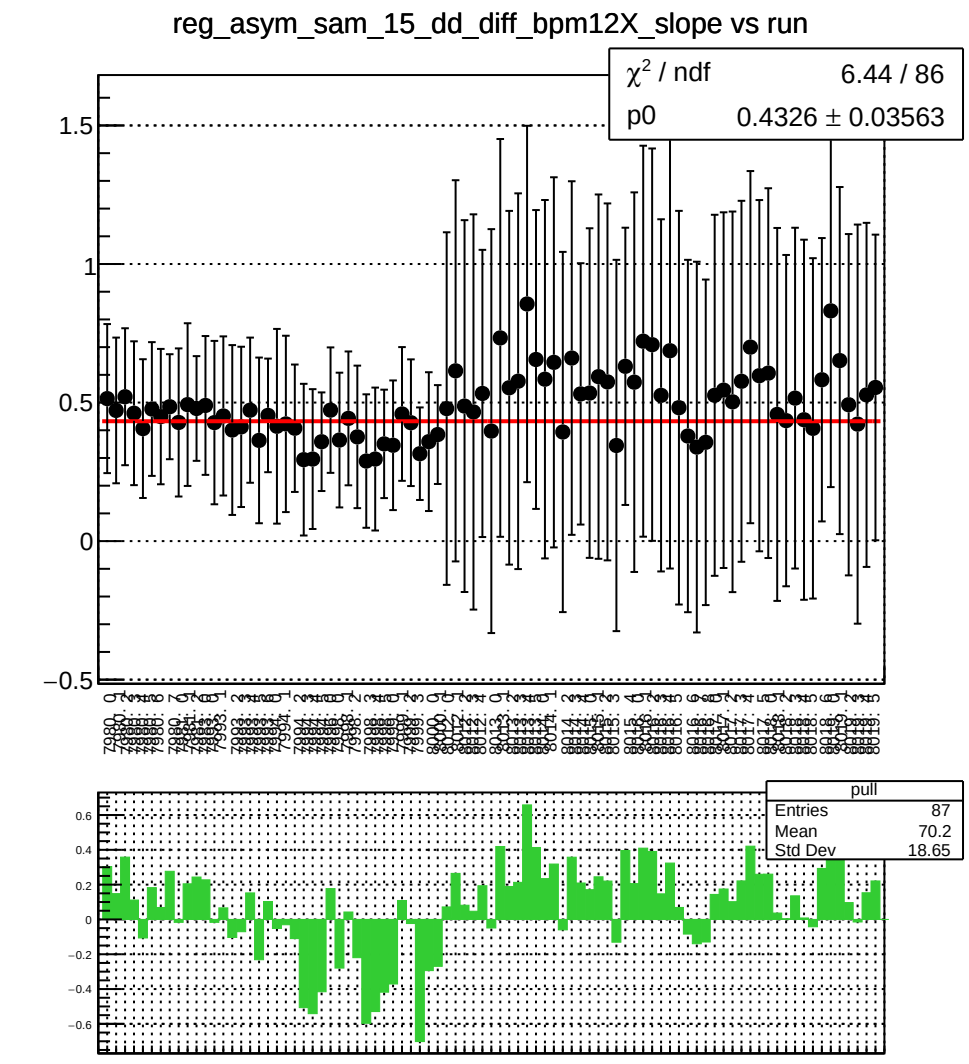

pull1D
Entries 87
Mean −0.02047
Std Dev 0.3324

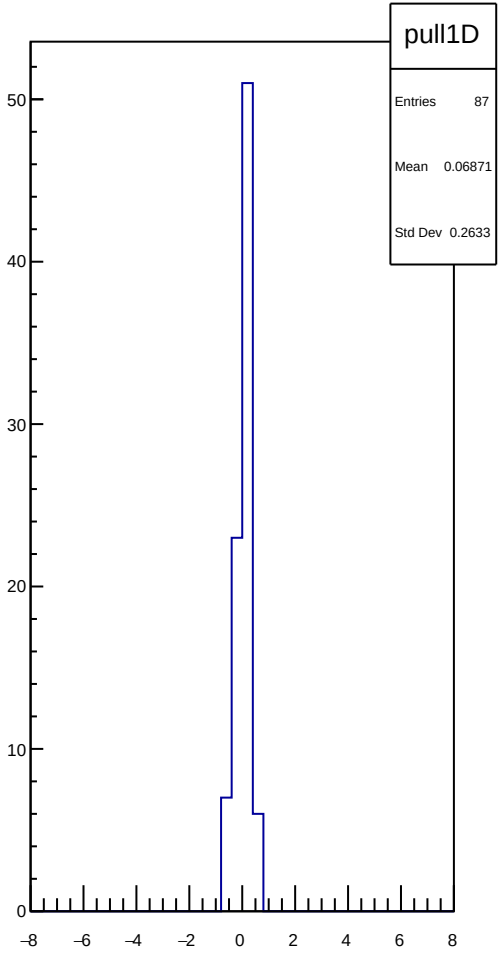

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.895 / 86
p0 −83.13 ± 0.9384
pull
Entries 87
Mean 230.4
Std Dev 0

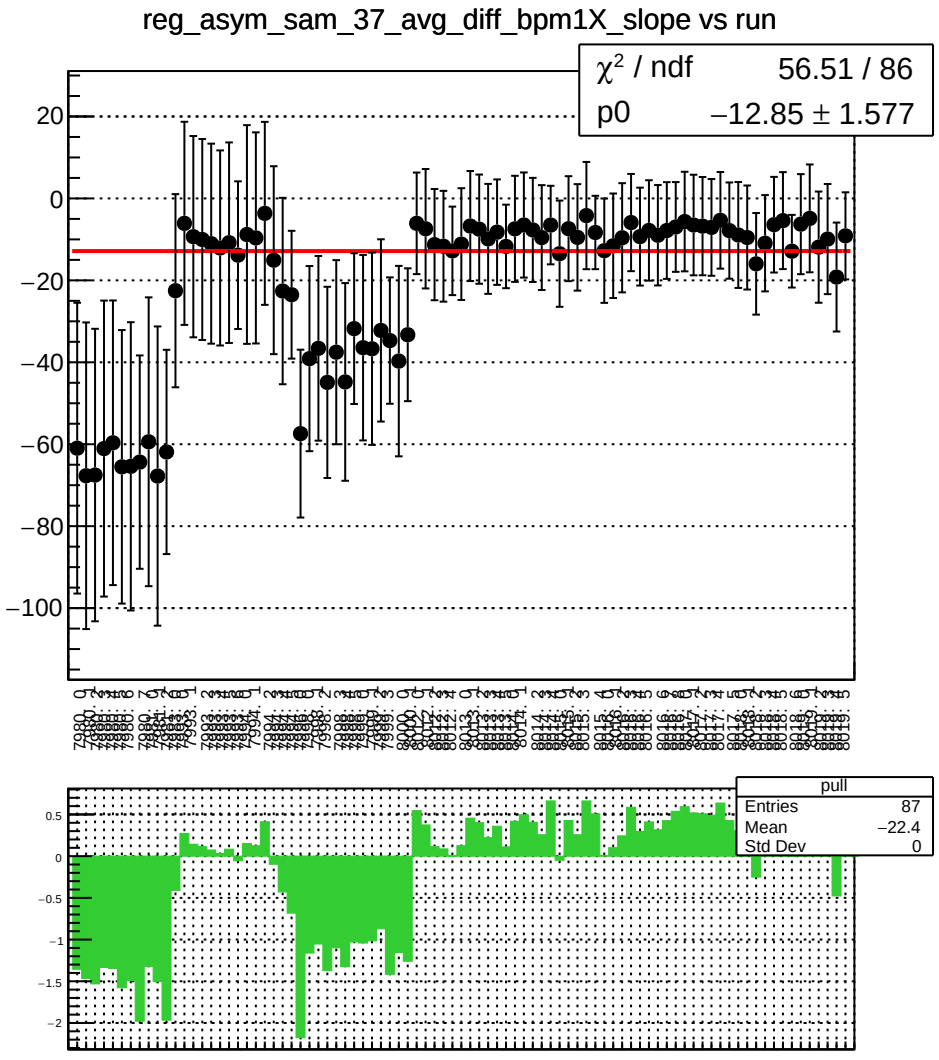

pull1D
Entries 87
Mean 0.02092
Std Dev 0.3191

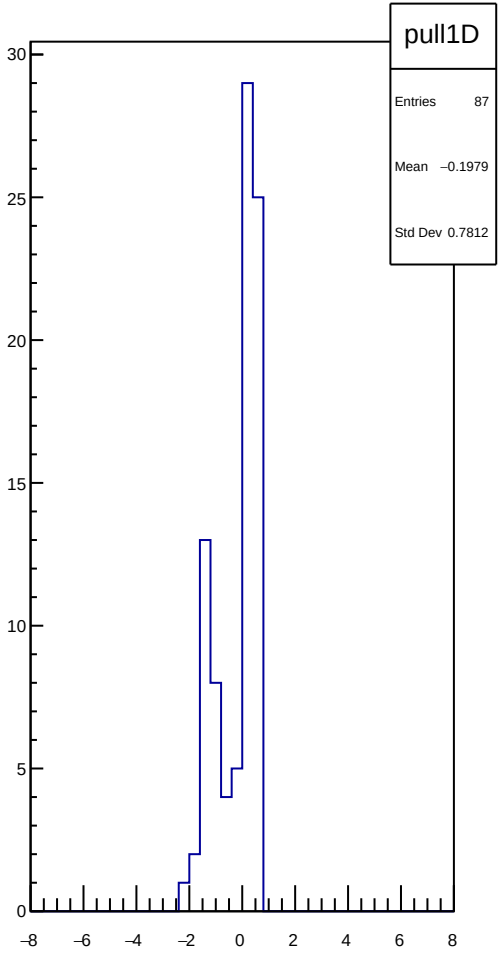

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.18 / 86
p0 −8.141 ± 0.6983
pull
Entries 87
Mean −926.7
Std Dev 0
pull1D
Entries 87
Mean 0.009218
Std Dev 0.4175

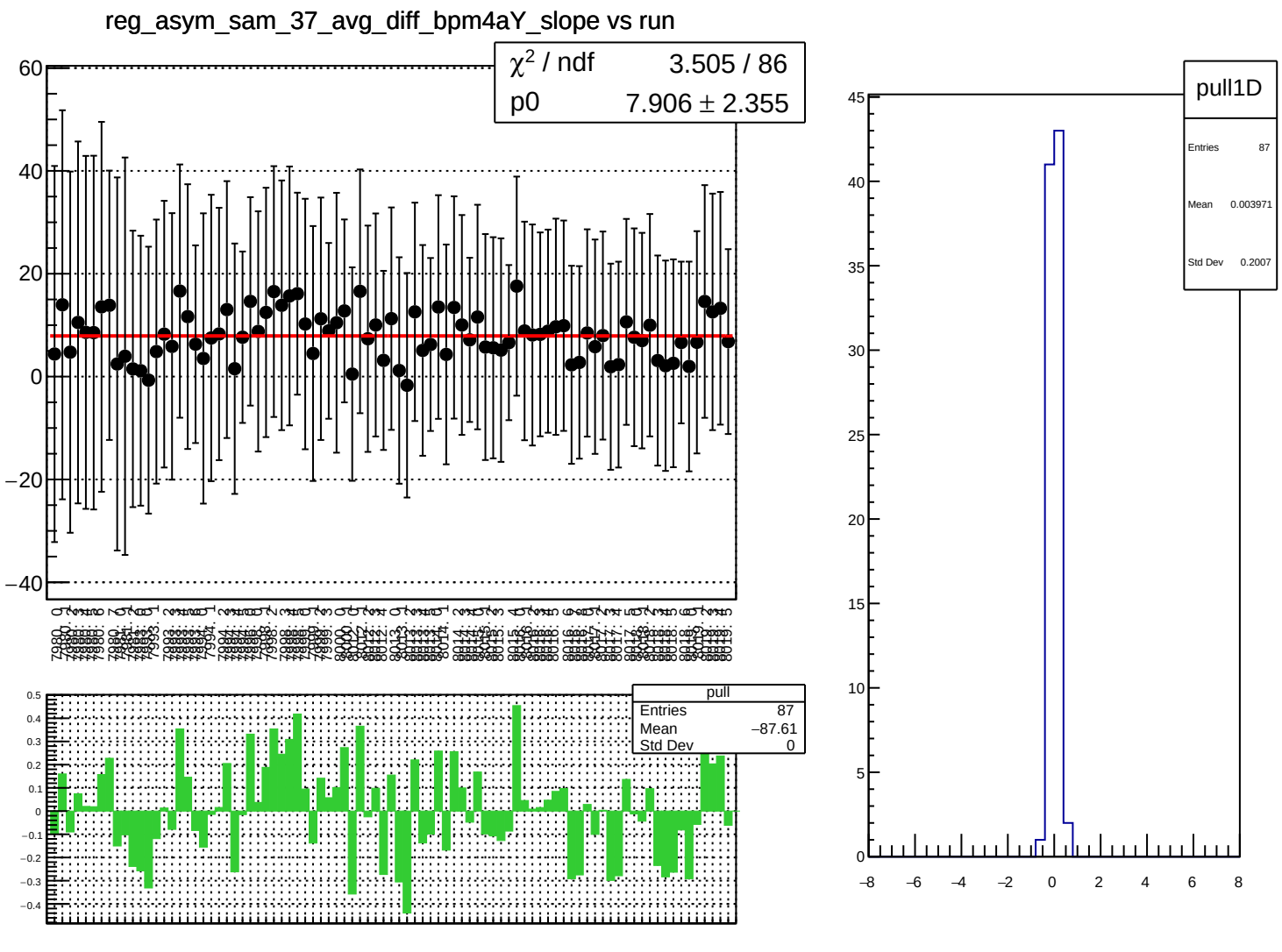

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.08 / 86
p0 −10.84 ± 1.033
pull
Entries 87
Mean 227.5
Std Dev 0
pull1D
Entries 87
Mean −0.04501
Std Dev 0.4537

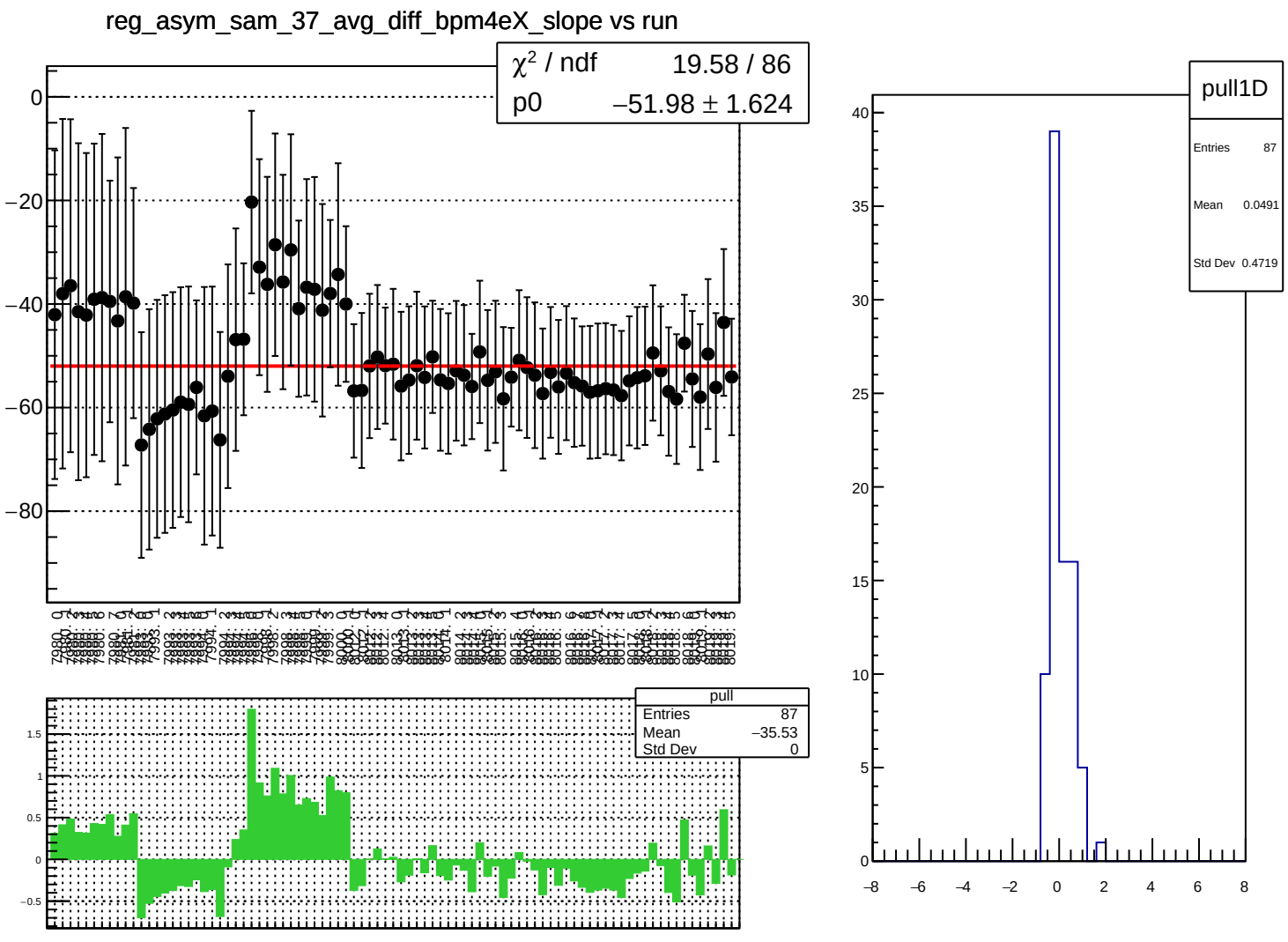

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 6.44 / 86
p0 0.4326 ± 0.03563
pull
Entries 87
Mean 70.2
Std Dev 18.65

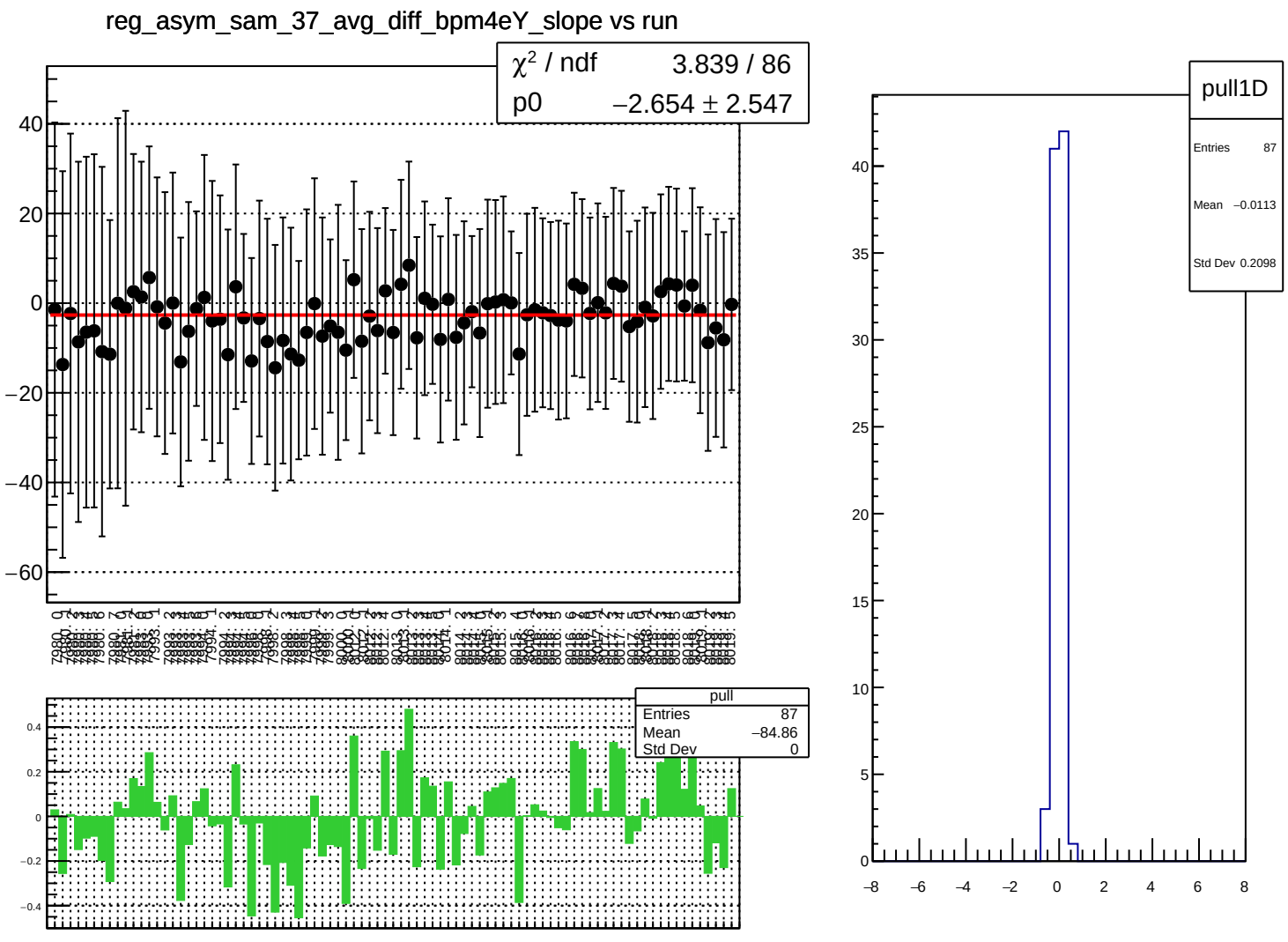

pull1D
Entries 87
Mean 0.06871
Std Dev 0.2633

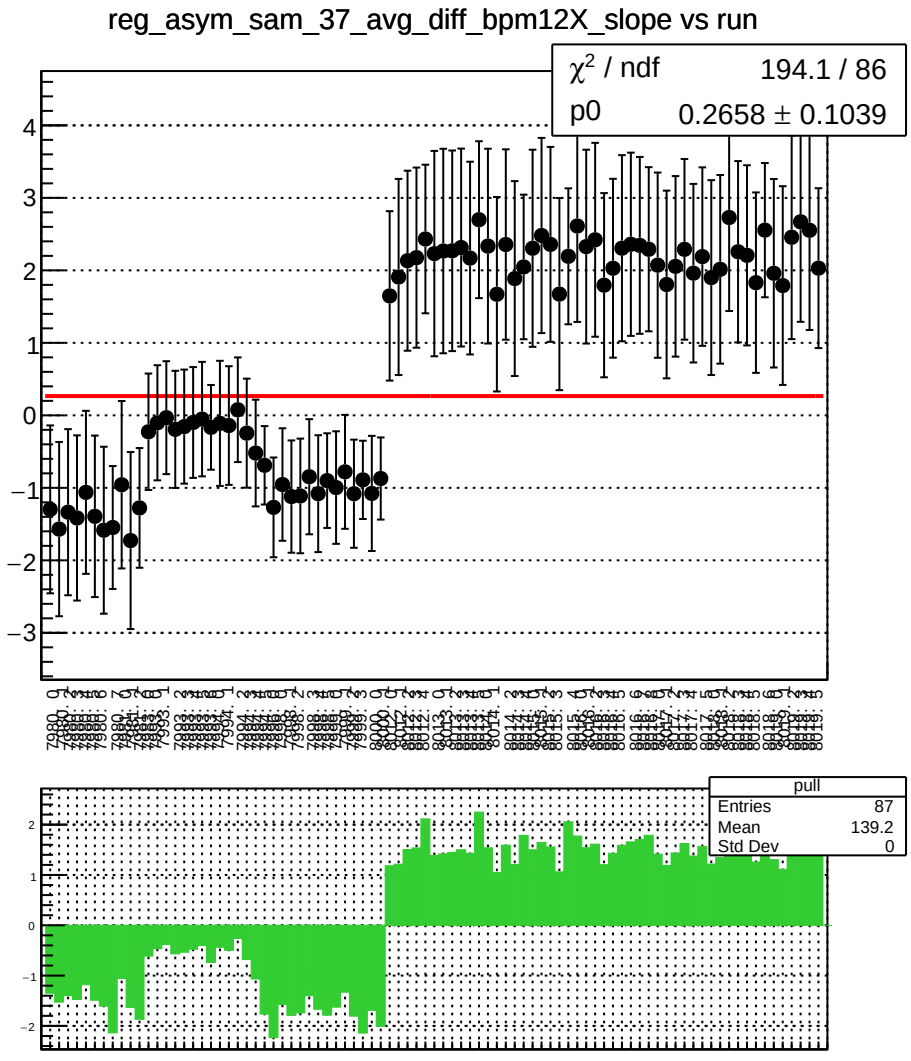

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 56.51 / 86
p0 −12.85 ± 1.577
pull
Entries 87
Mean −22.4
Std Dev 0

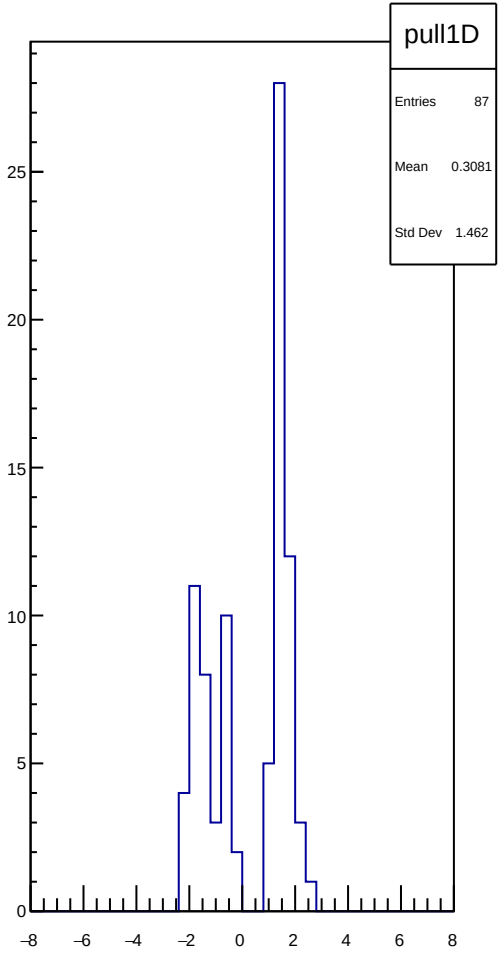

pull1D
Entries 87
Mean −0.1979
Std Dev 0.7812

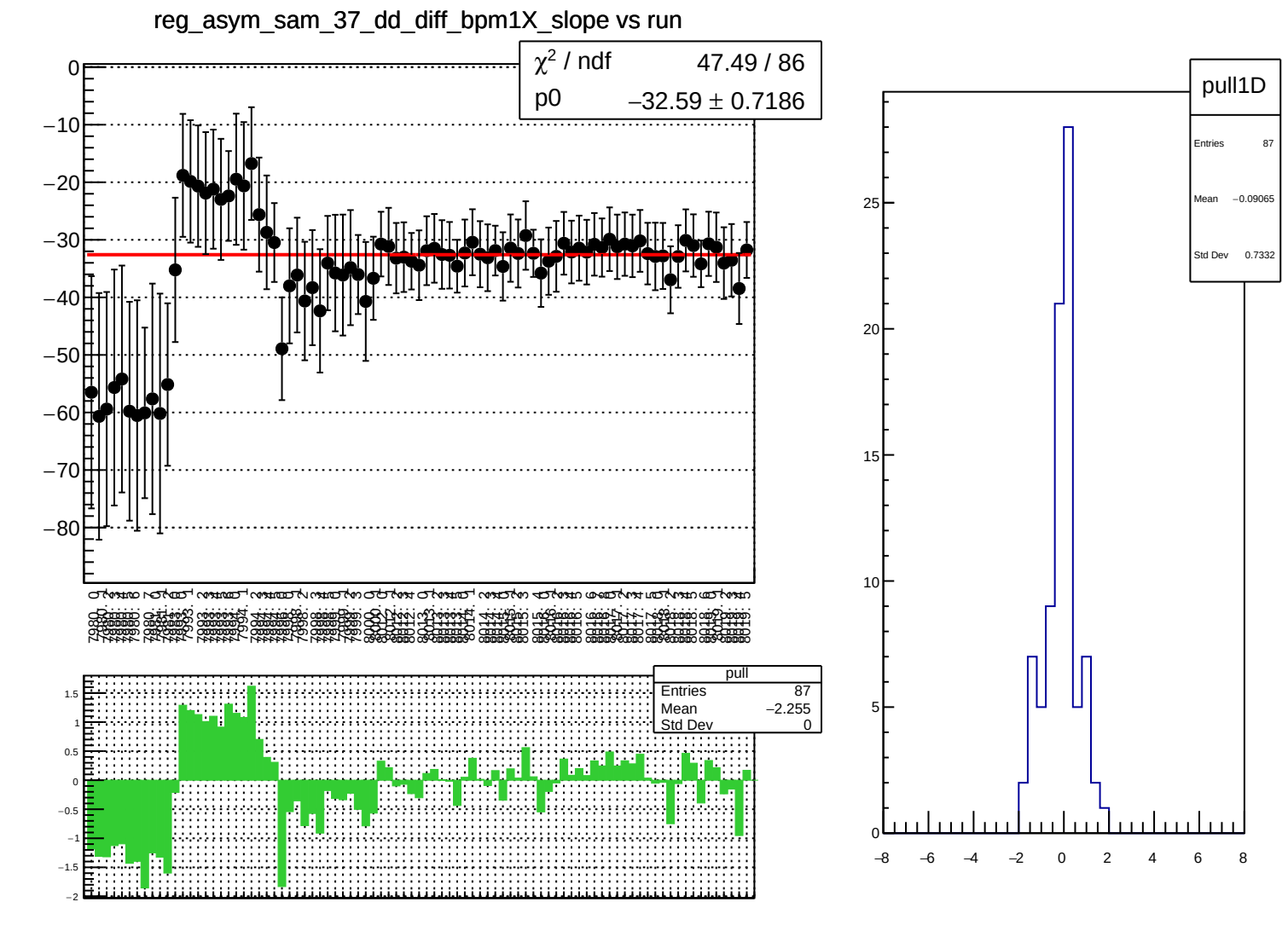

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.505 / 86
p0 7.906 ± 2.355
pull
Entries 87
Mean −87.61
Std Dev 0
pull1D
Entries 87
Mean 0.003971
Std Dev 0.2007

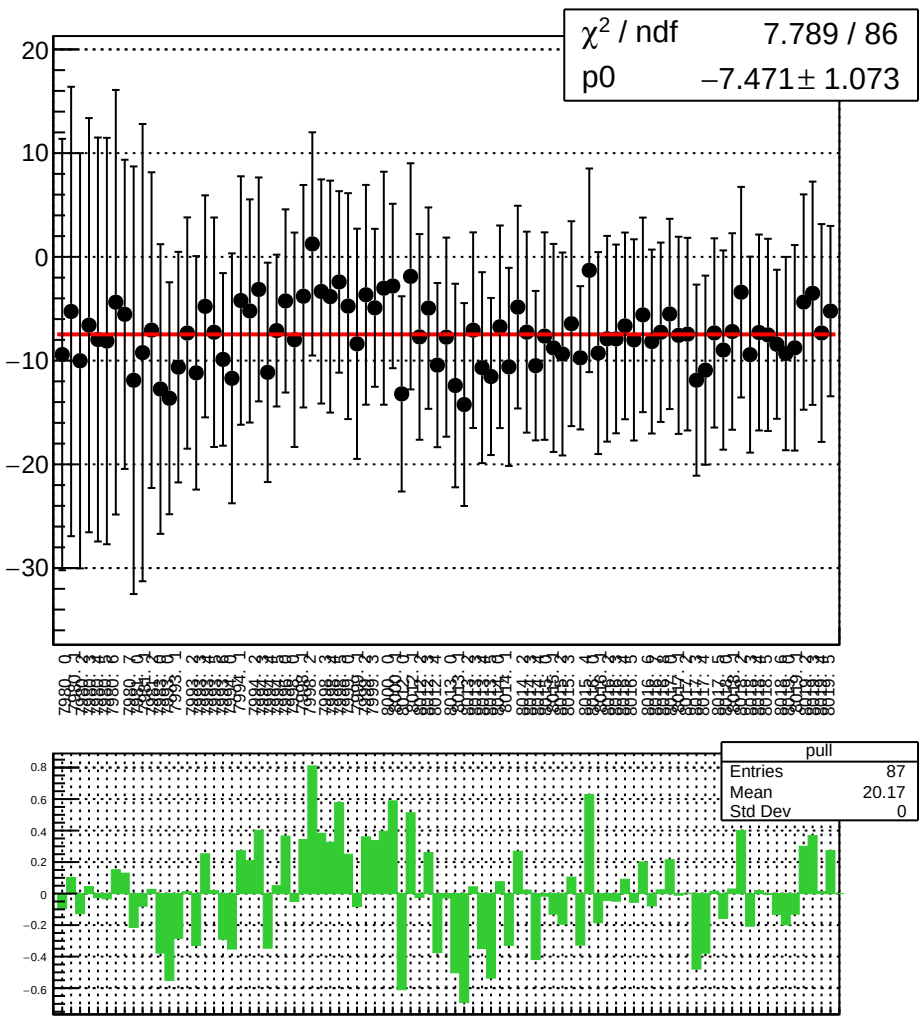

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.58 / 86
p0 −51.98 ± 1.624
0
−20
−40
−60
−80
pull
Entries 87
Mean −35.53
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 87
Mean 0.0491
Std Dev 0.4719
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

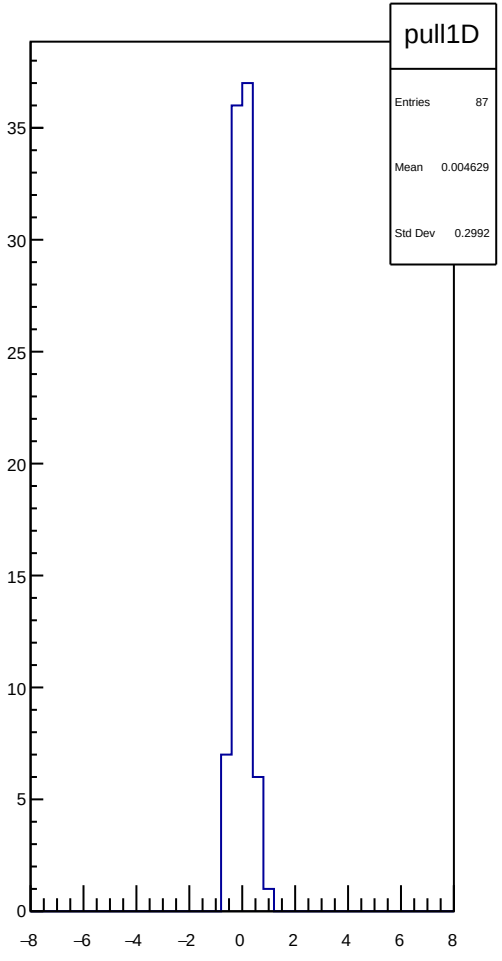

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.839 / 86
p0 −2.654 ± 2.547
pull
Entries 87
Mean −84.86
Std Dev 0
pull1D
Entries 87
Mean −0.0113
Std Dev 0.2098

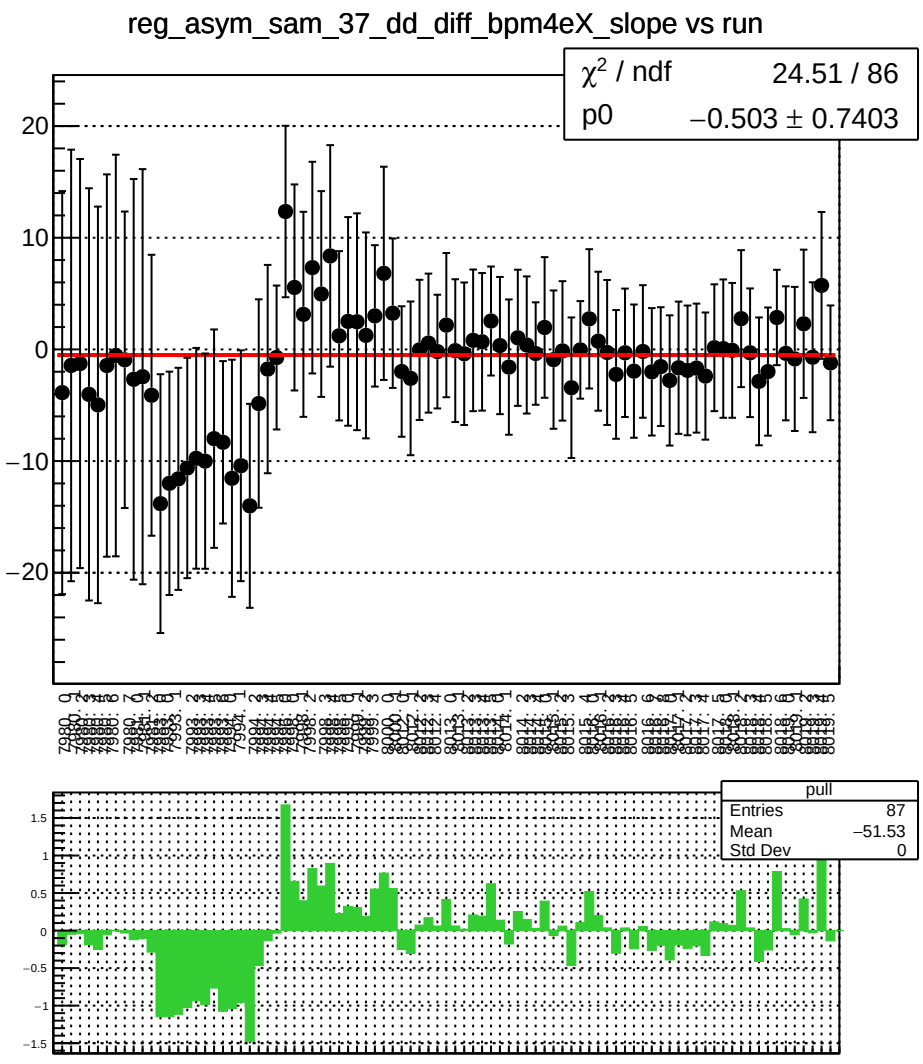

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 194.1 / 86
p0 0.2658 ± 0.1039
pull
Entries 87
Mean 139.2
Std Dev 0

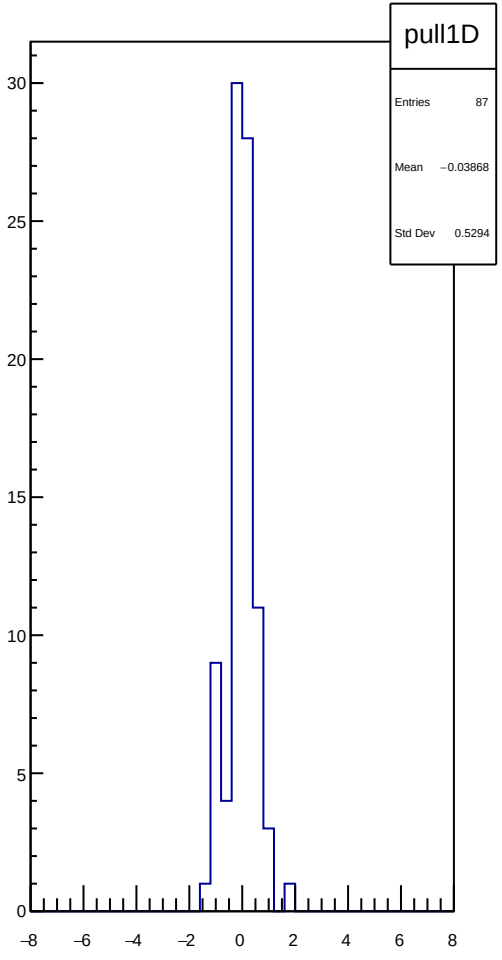

pull1D
Entries 87
Mean 0.3081
Std Dev 1.462

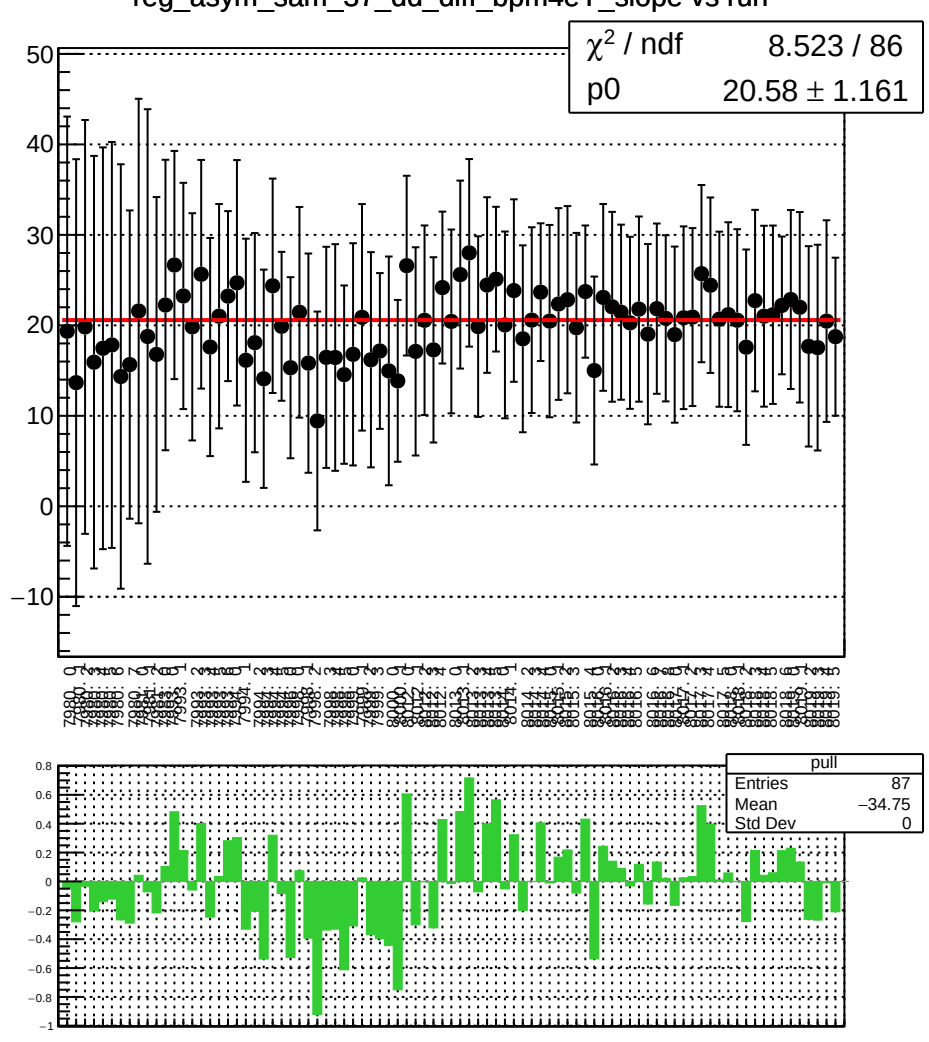

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 47.49 / 86
p0 −32.59 ± 0.7186
pull
Entries 87
Mean −2.255
Std Dev 0
pull1D
Entries 87
Mean −0.09065
Std Dev 0.7332

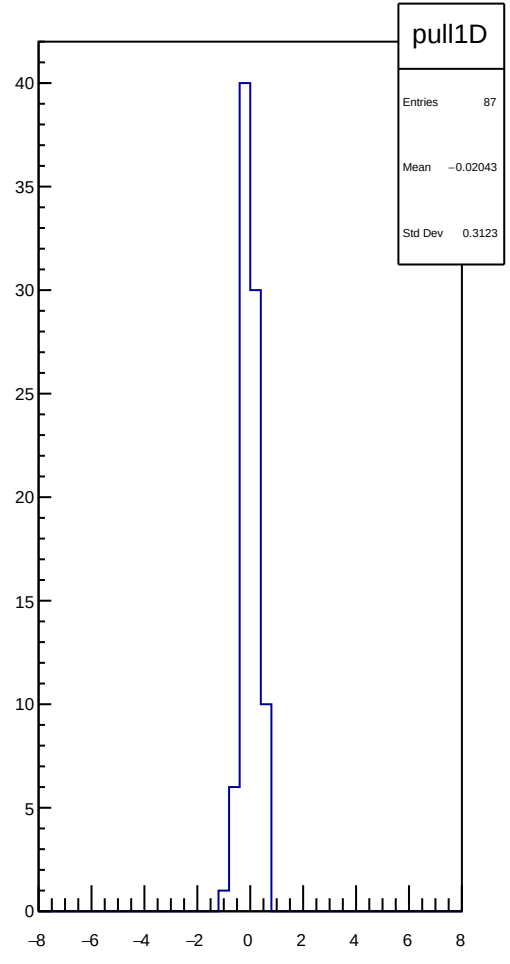

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.789 / 86
p0 −7.471± 1.073
pull
Entries 87
Mean 20.17
Std Dev 0

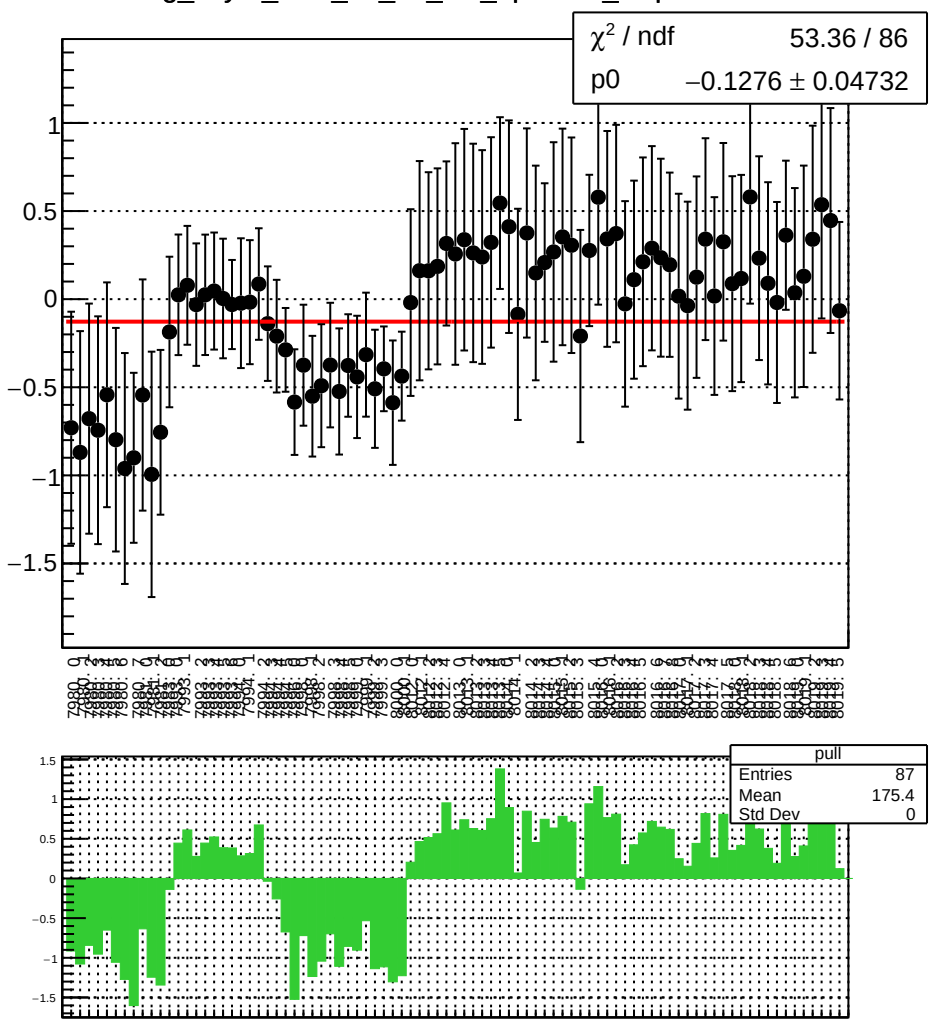

pull1D
Entries 87
Mean 0.004629
Std Dev 0.2992

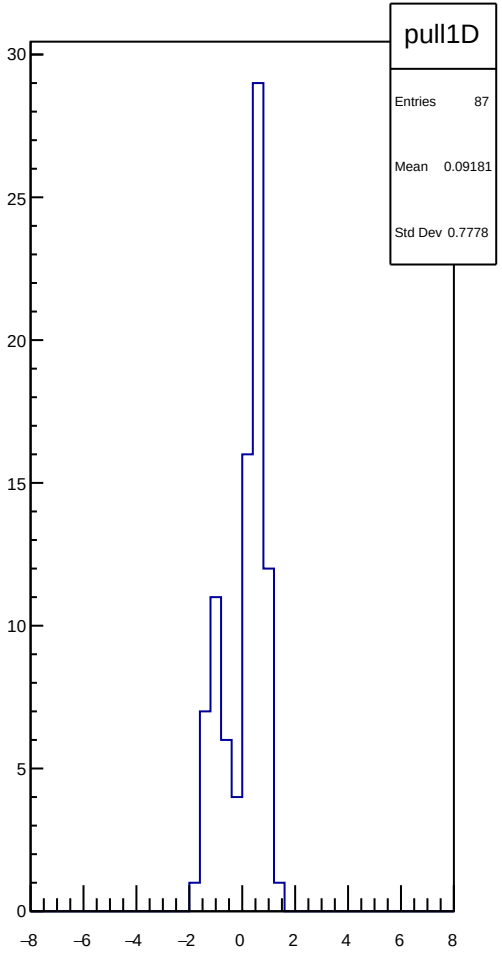

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.51 / 86
p0 −0.503 ± 0.7403
pull
Entries 87
Mean −51.53
Std Dev 0

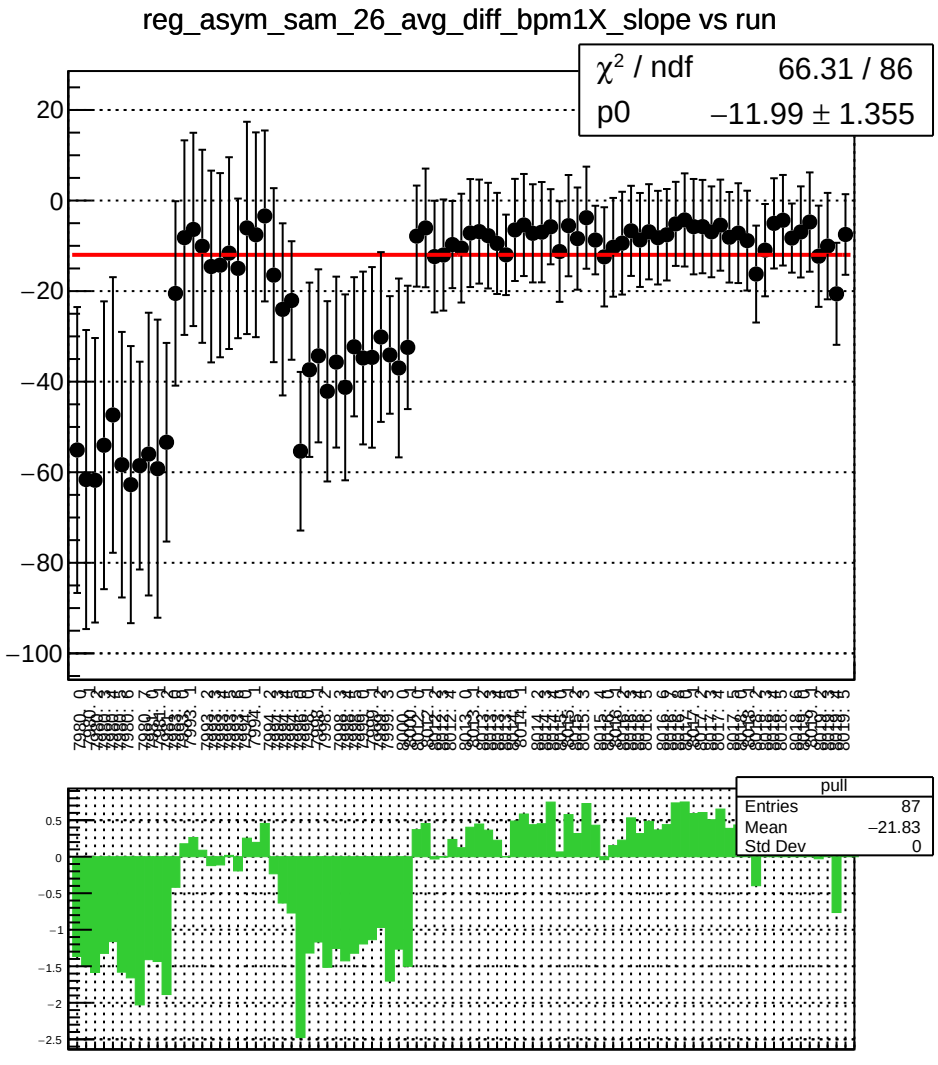

pull1D
Entries 87
Mean −0.03868
Std Dev 0.5294

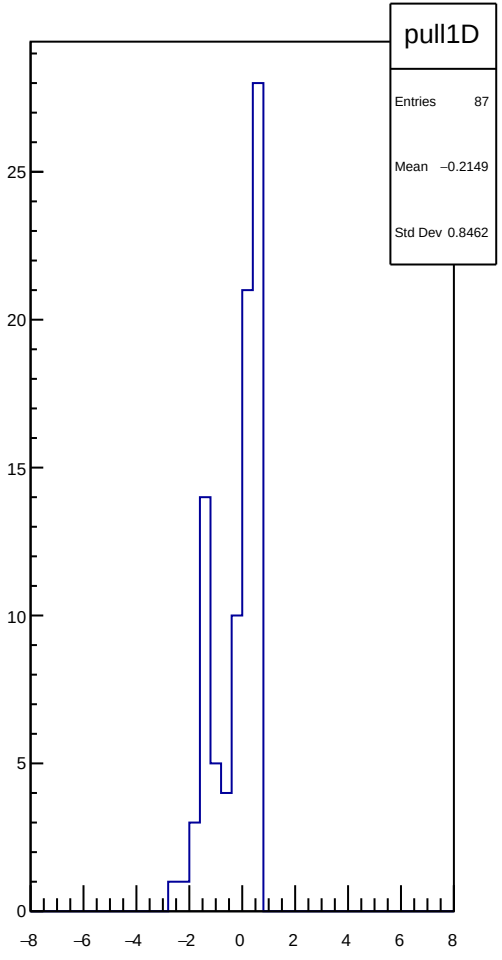

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.523 / 86
p0 20.58 ± 1.161
pull
Entries 87
Mean −34.75
Std Dev 0

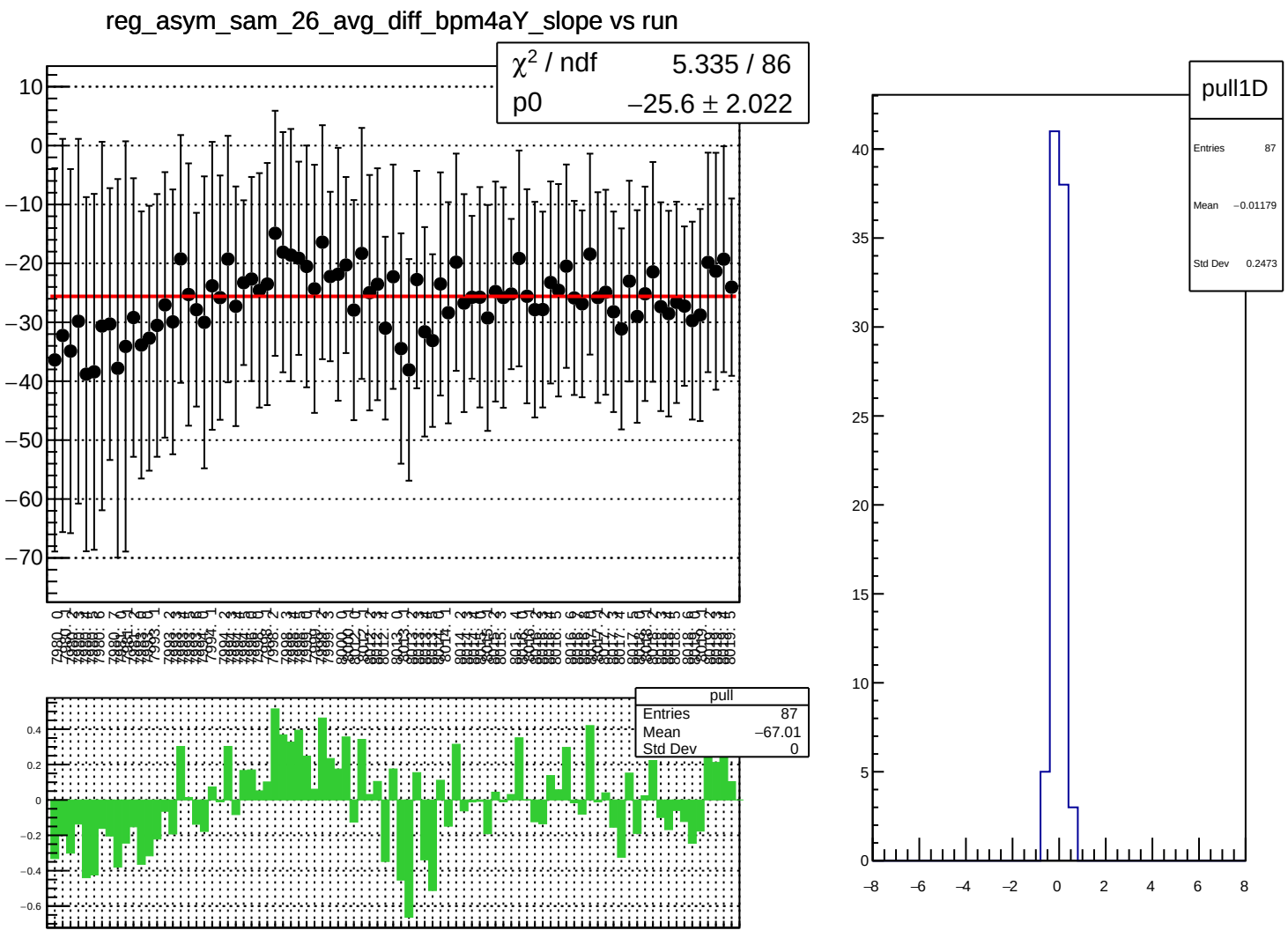

pull1D
Entries 87
Mean −0.02043
Std Dev 0.3123

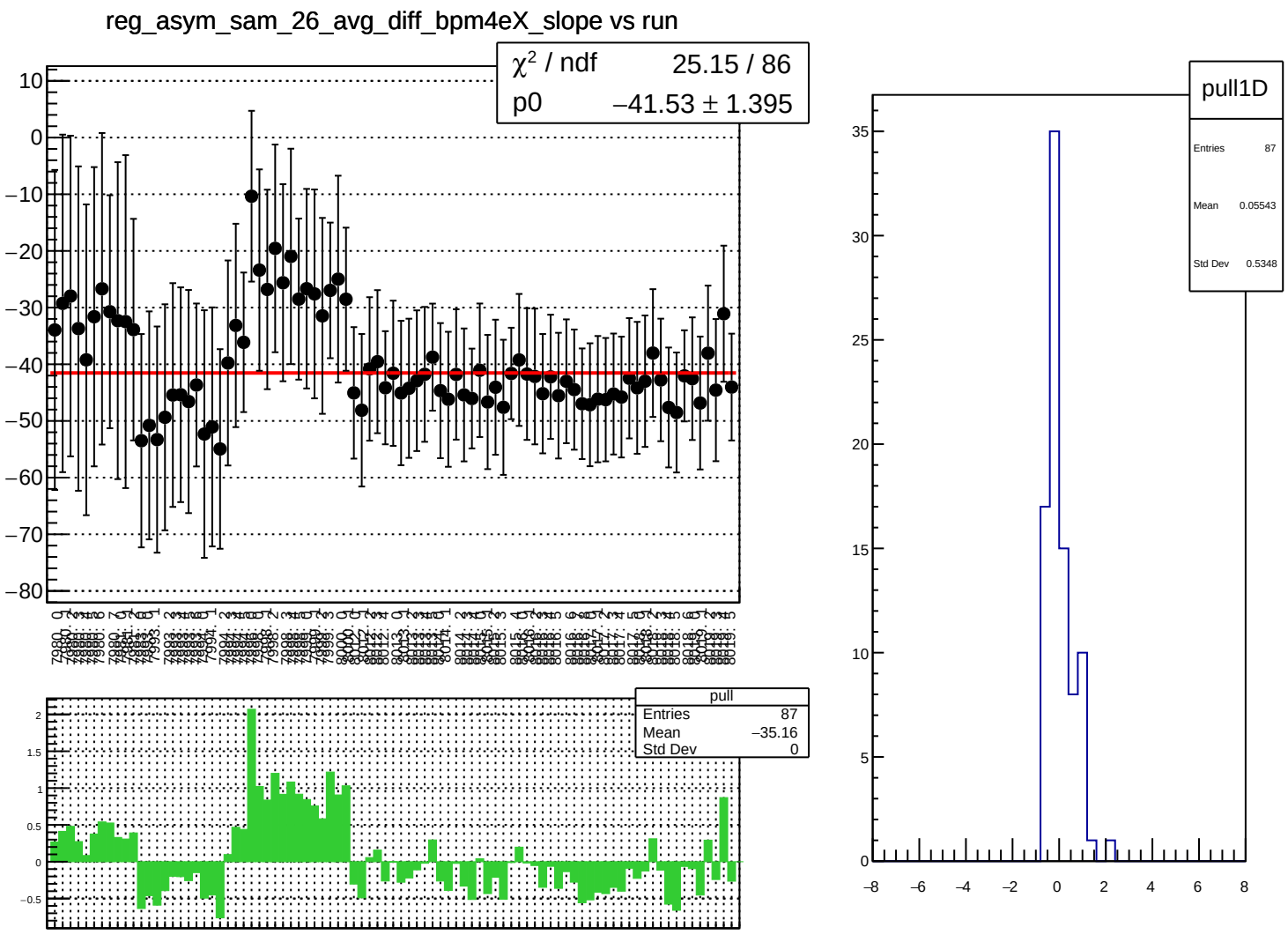

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 53.36 / 86
p0 −0.1276 ± 0.04732
pull
Entries 87
Mean 175.4
Std Dev 0

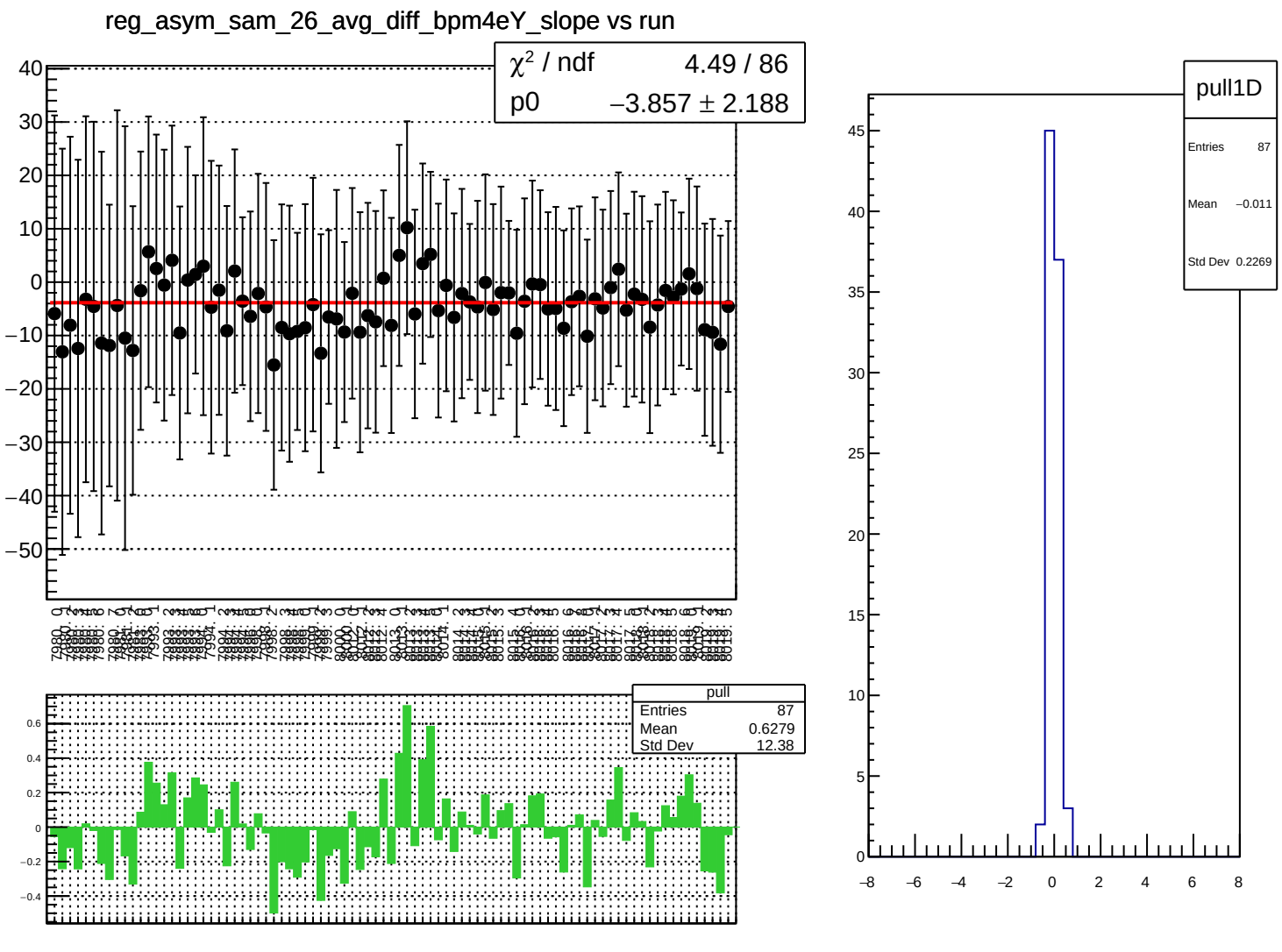

pull1D
Entries 87
Mean 0.09181
Std Dev 0.7778

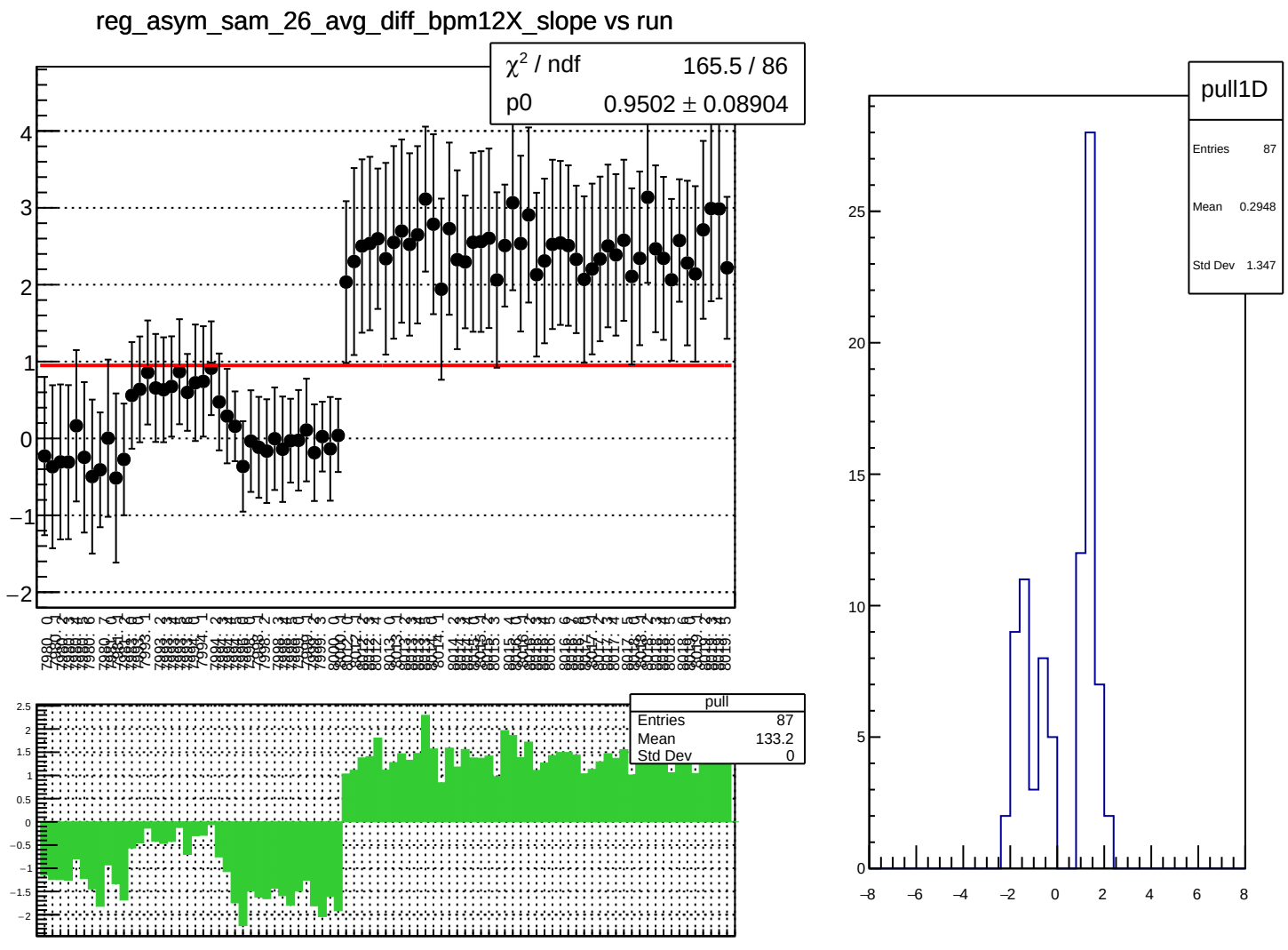

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 66.31 / 86
p0 −11.99 ± 1.355
pull
Entries 87
Mean −21.83
Std Dev 0

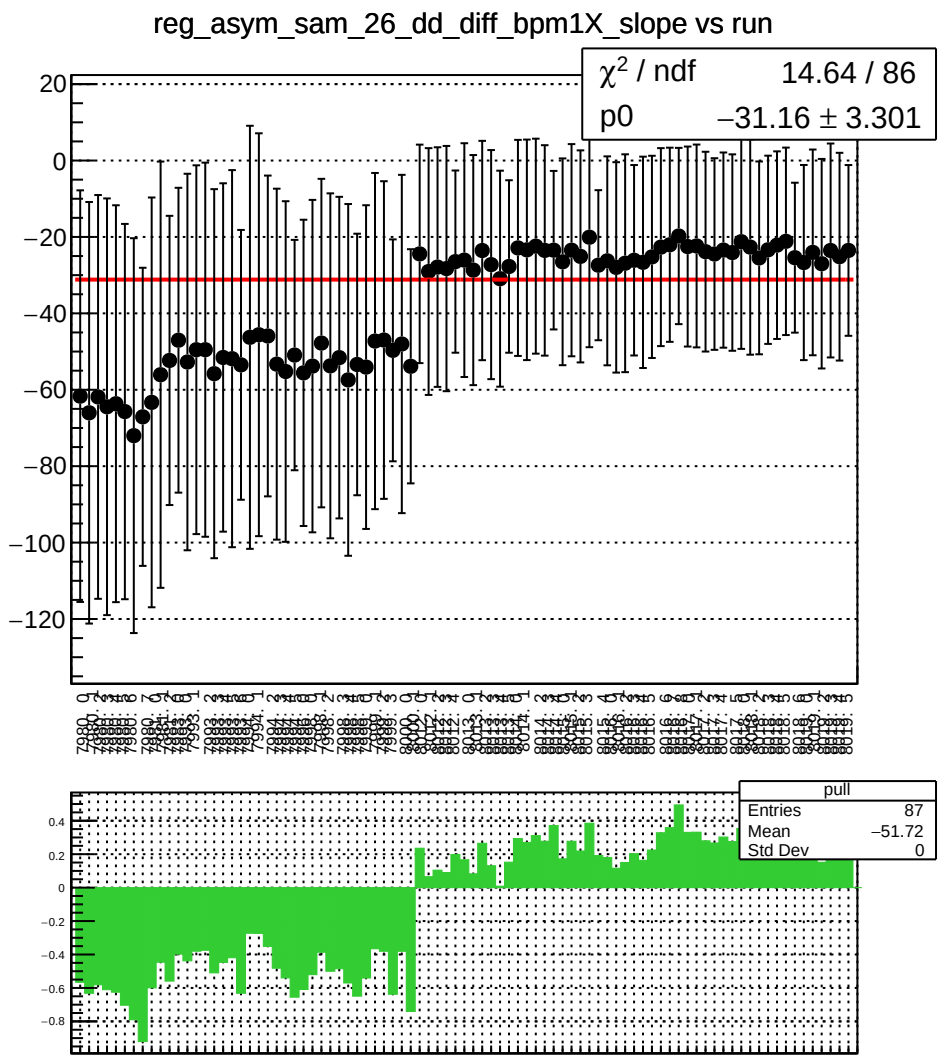

pull1D
Entries 87
Mean −0.2149
Std Dev 0.8462

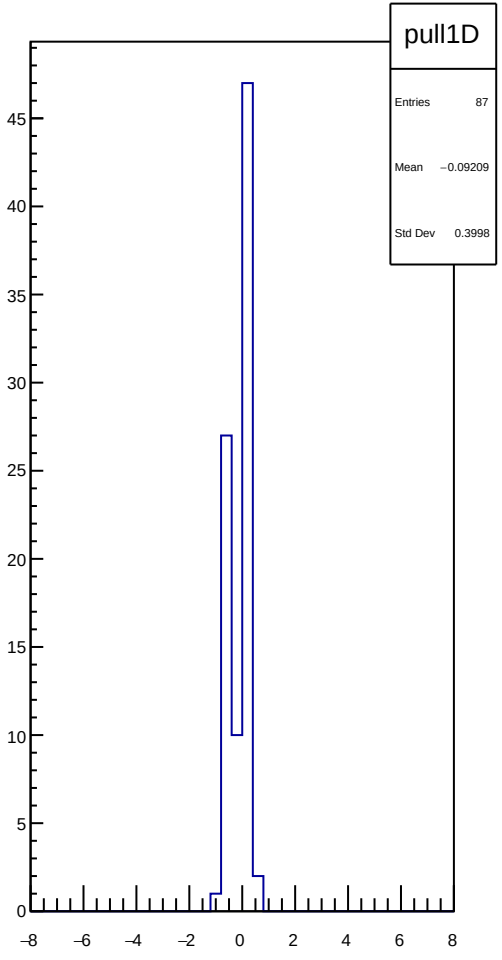

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.335 / 86
p0 −25.6 ± 2.022
pull
Entries 87
Mean −67.01
Std Dev 0
pull1D
Entries 87
Mean −0.01179
Std Dev 0.2473

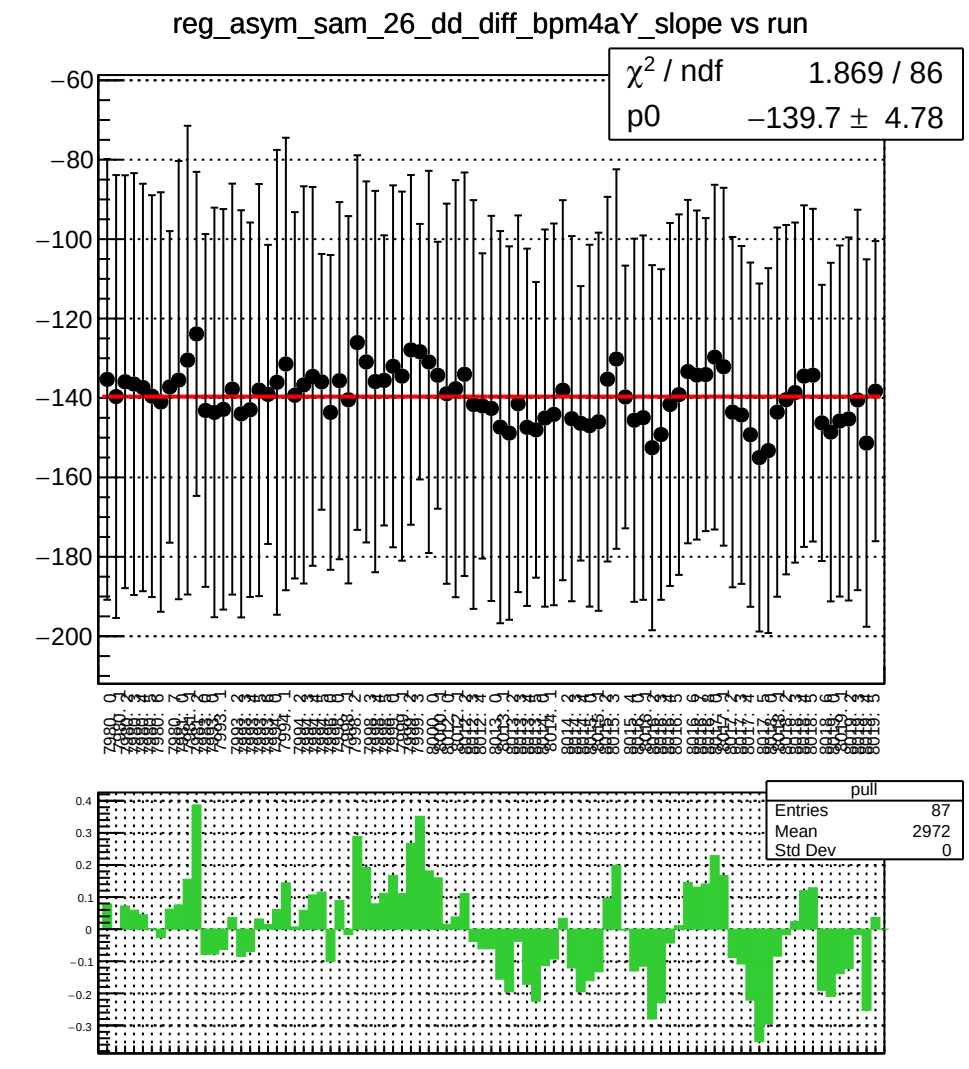

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.15 / 86
p0 −41.53 ± 1.395
pull
Entries 87
Mean −35.16
Std Dev 0
pull1D
Entries 87
Mean 0.05543
Std Dev 0.5348

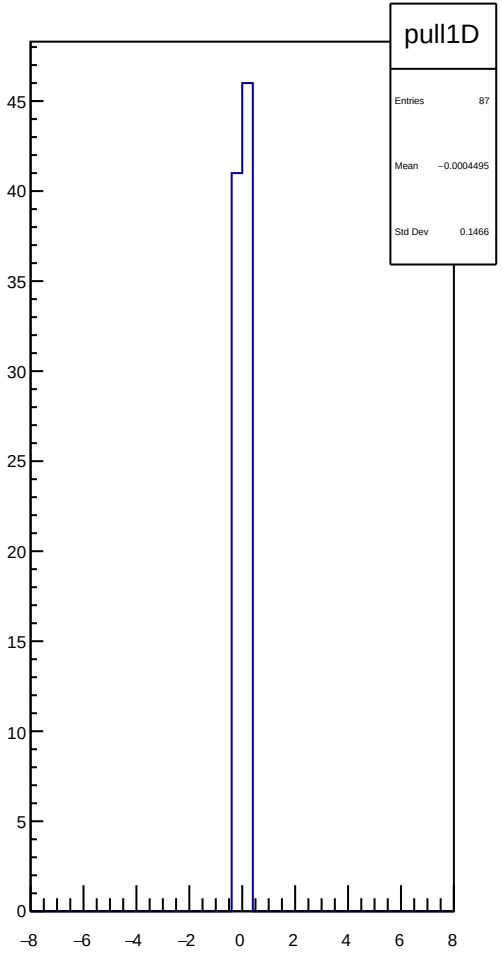

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.49 / 86
p0 −3.857 ± 2.188
pull
Entries 87
Mean 0.6279
Std Dev 12.38
pull1D
Entries 87
Mean −0.011
Std Dev 0.2269

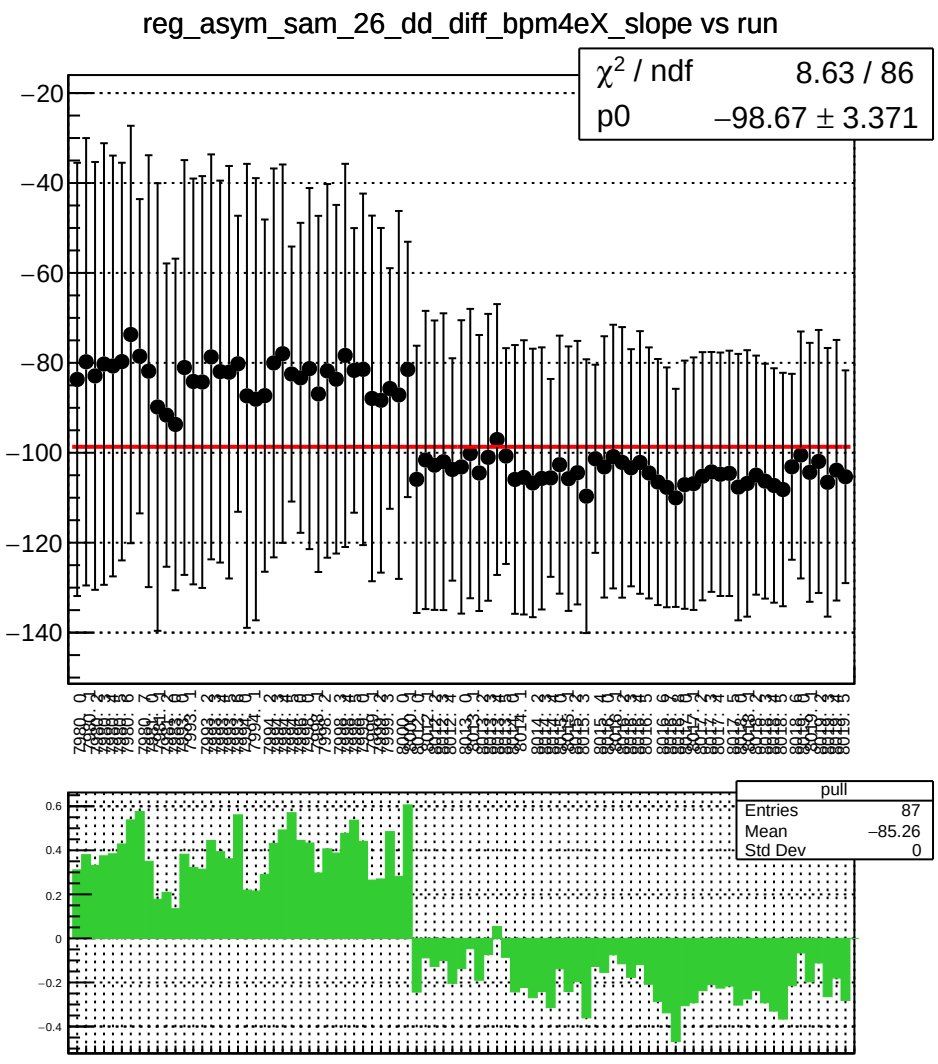

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 165.5 / 86
p0 0.9502 ± 0.08904
pull
Entries 87
Mean 133.2
Std Dev 0
pull1D
Entries 87
Mean 0.2948
Std Dev 1.347

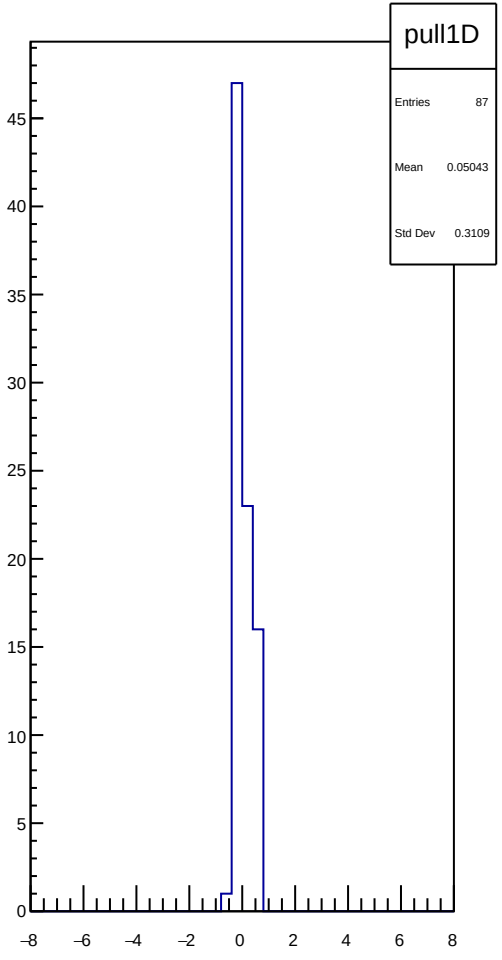

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 14.64 / 86
p0 −31.16 ± 3.301
pull
Entries 87
Mean −51.72
Std Dev 0

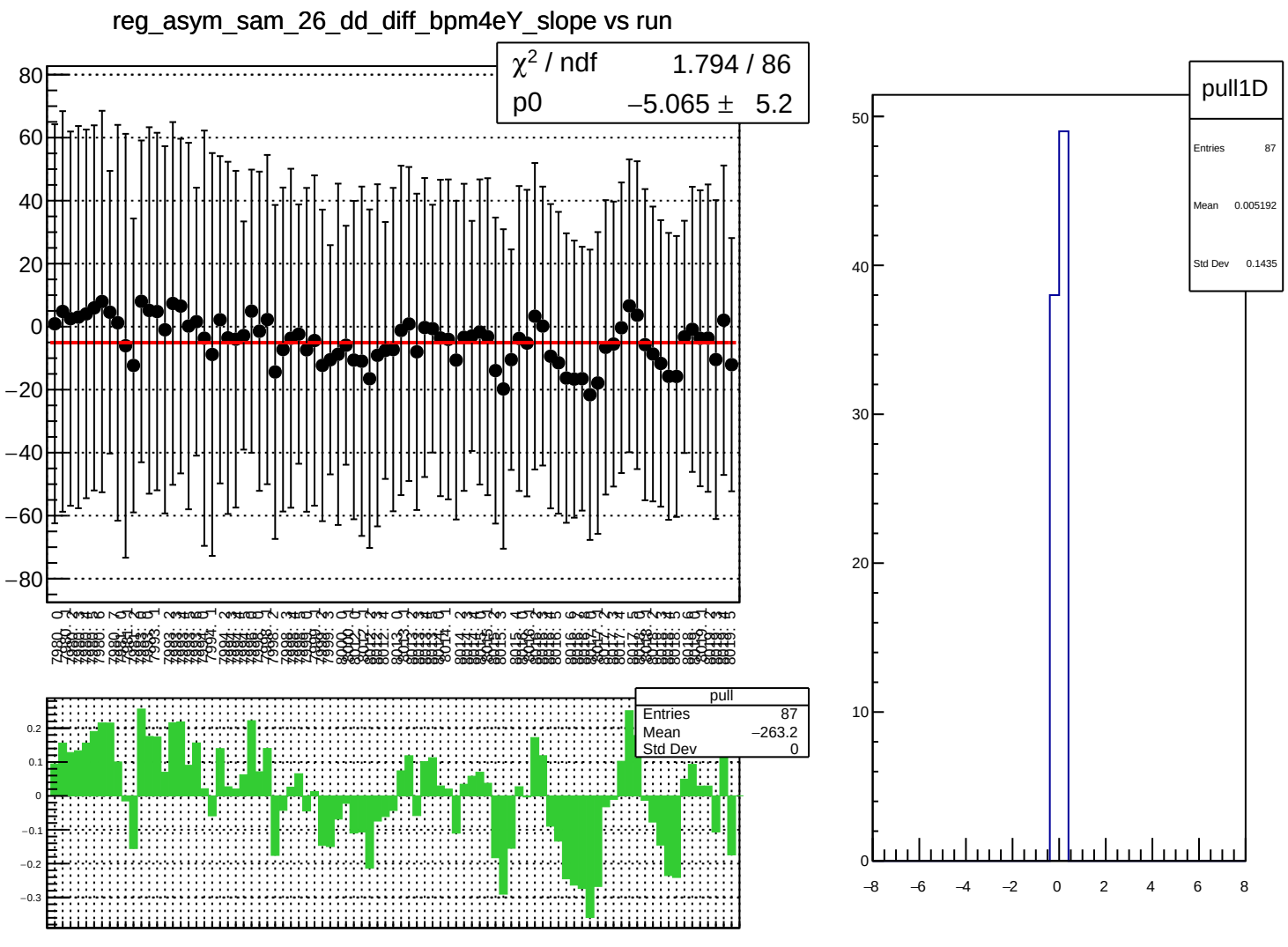

pull1D
Entries 87
Mean −0.09209
Std Dev 0.3998

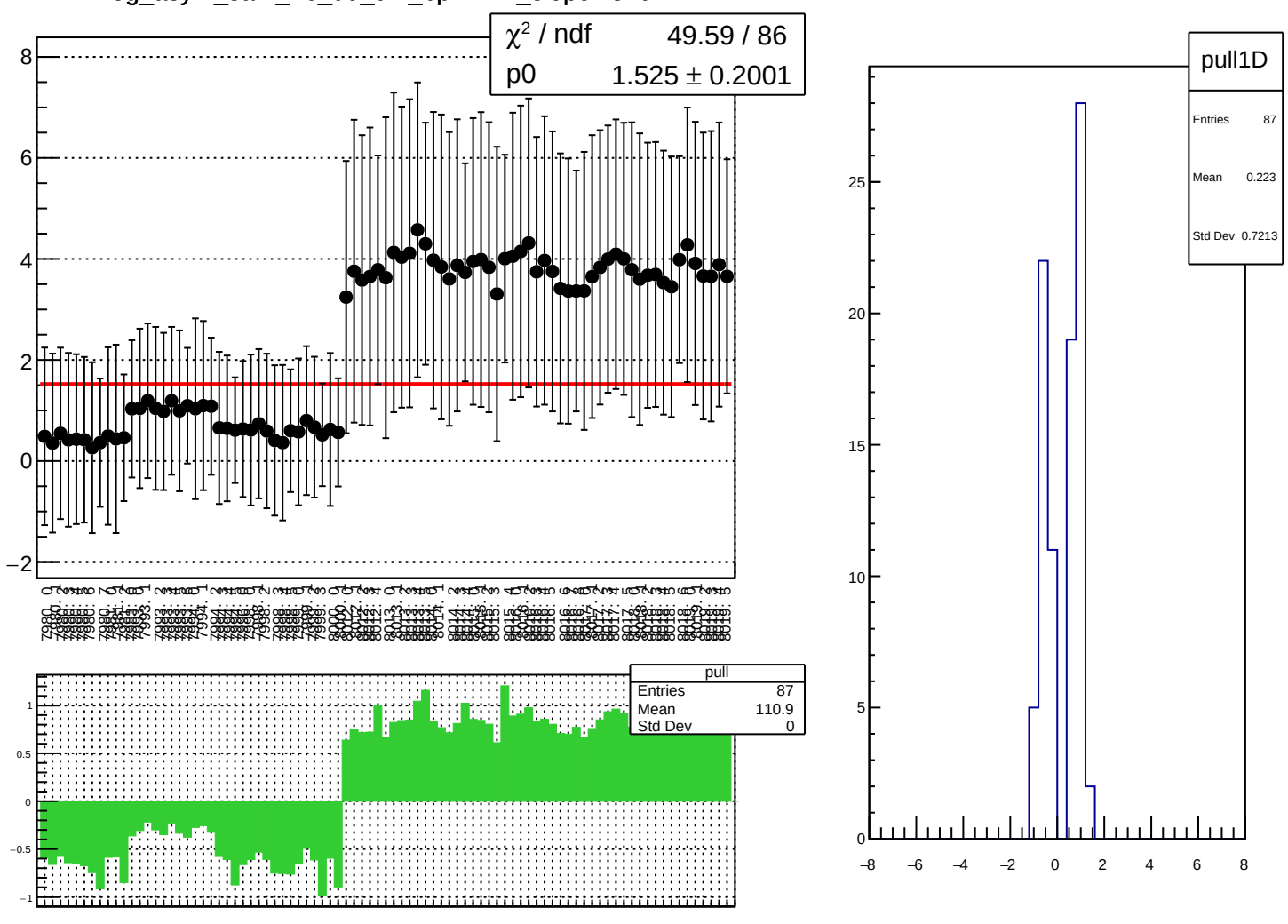

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.869 / 86
p0 −139.7 ± 4.78
pull
Entries 87
Mean 2972
Std Dev 0

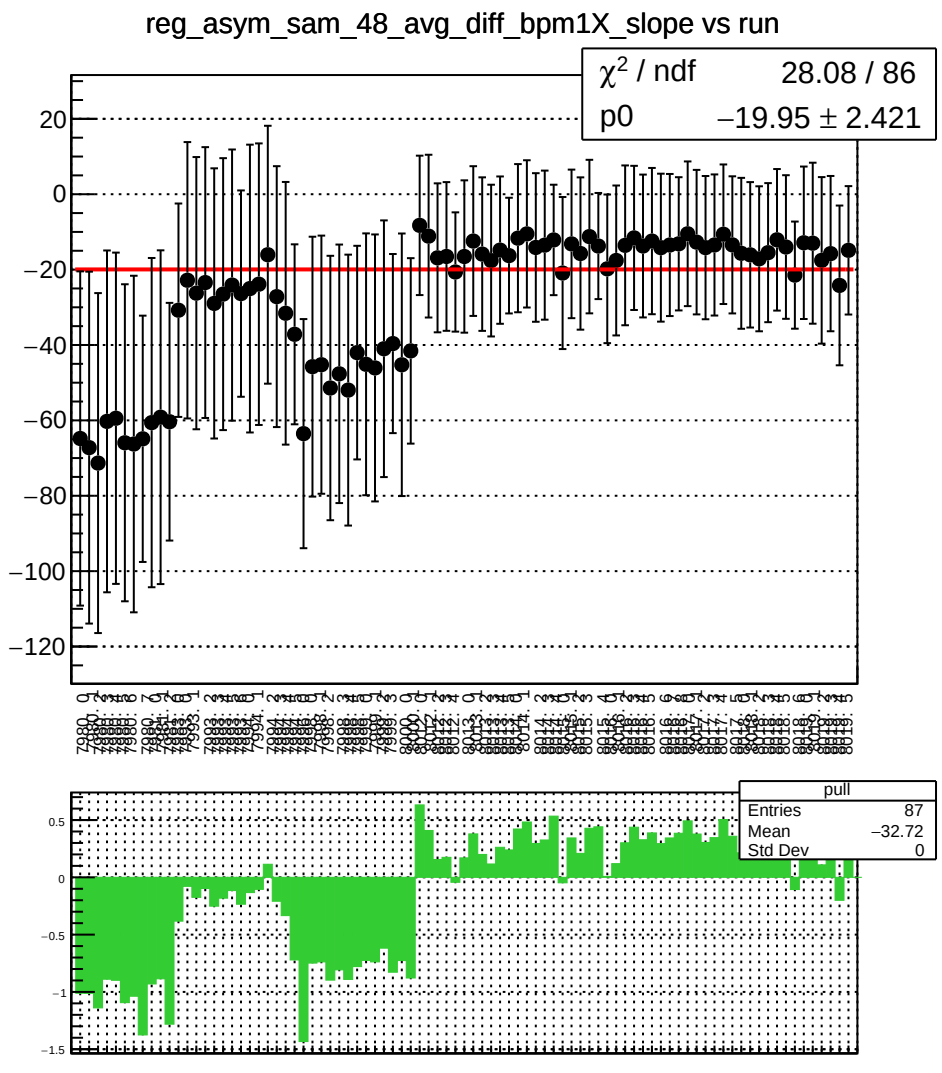

pull1D
Entries 87
Mean −0.0004495
Std Dev 0.1466

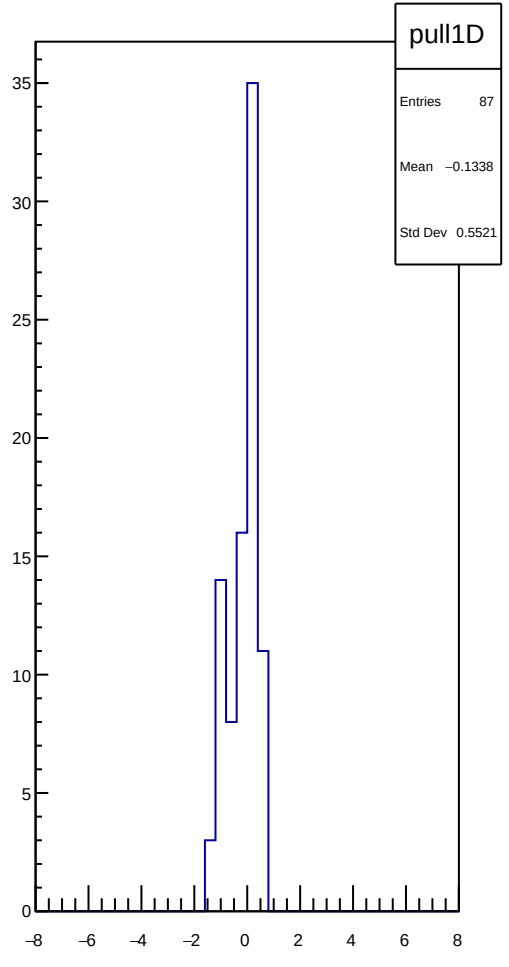

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.63 / 86
p0 −98.67 ± 3.371
pull
Entries 87
Mean −85.26
Std Dev 0

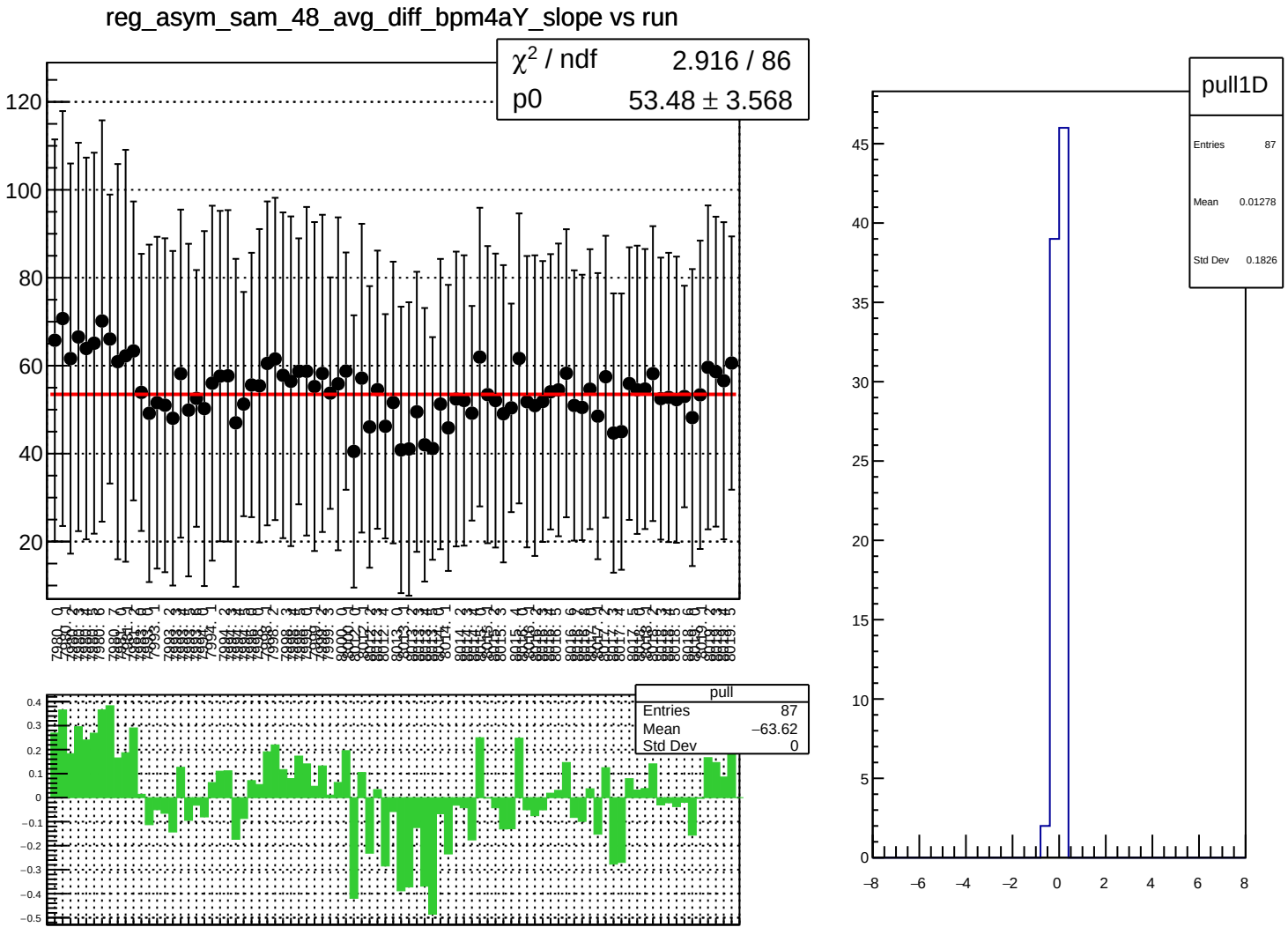

pull1D
Entries 87
Mean 0.05043
Std Dev 0.3109

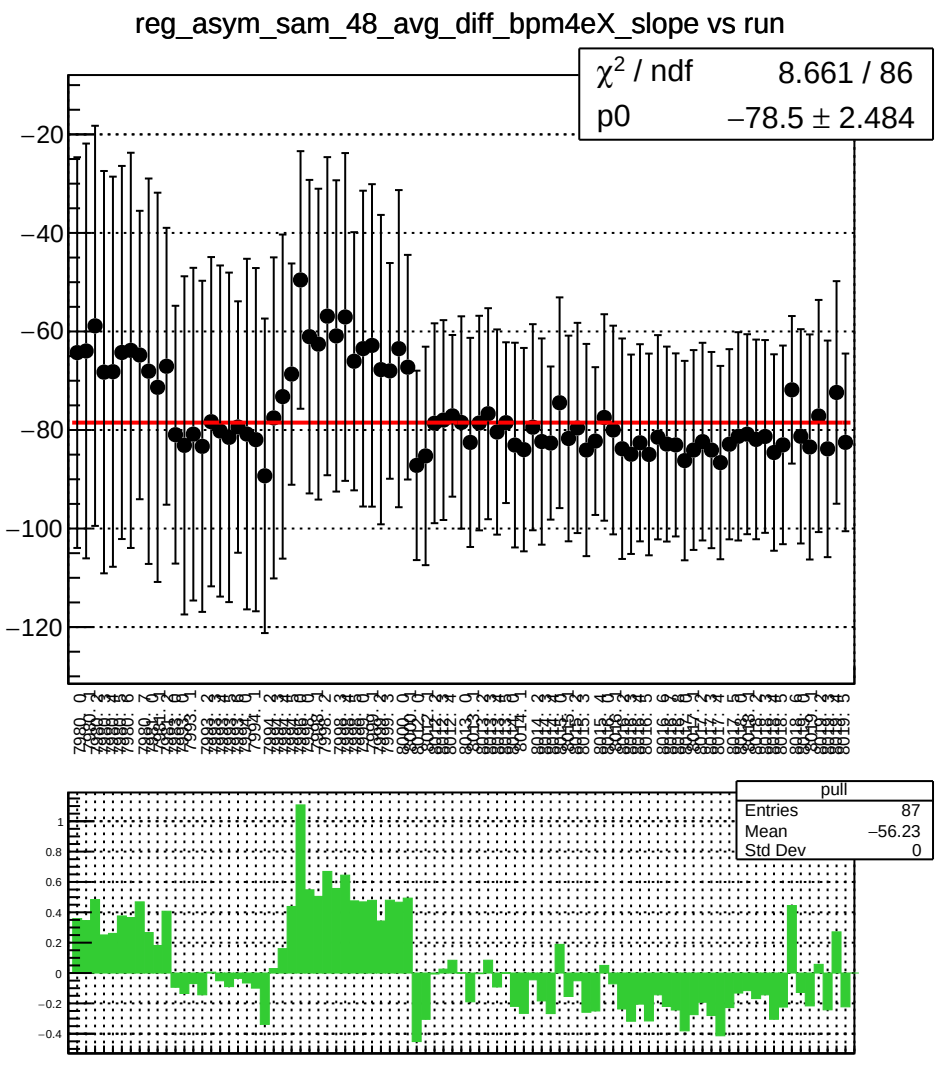

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.794 / 86
p0 −5.065 ± 5.2
pull
Entries 87
Mean −263.2
Std Dev 0
pull1D
Entries 87
Mean 0.005192
Std Dev 0.1435

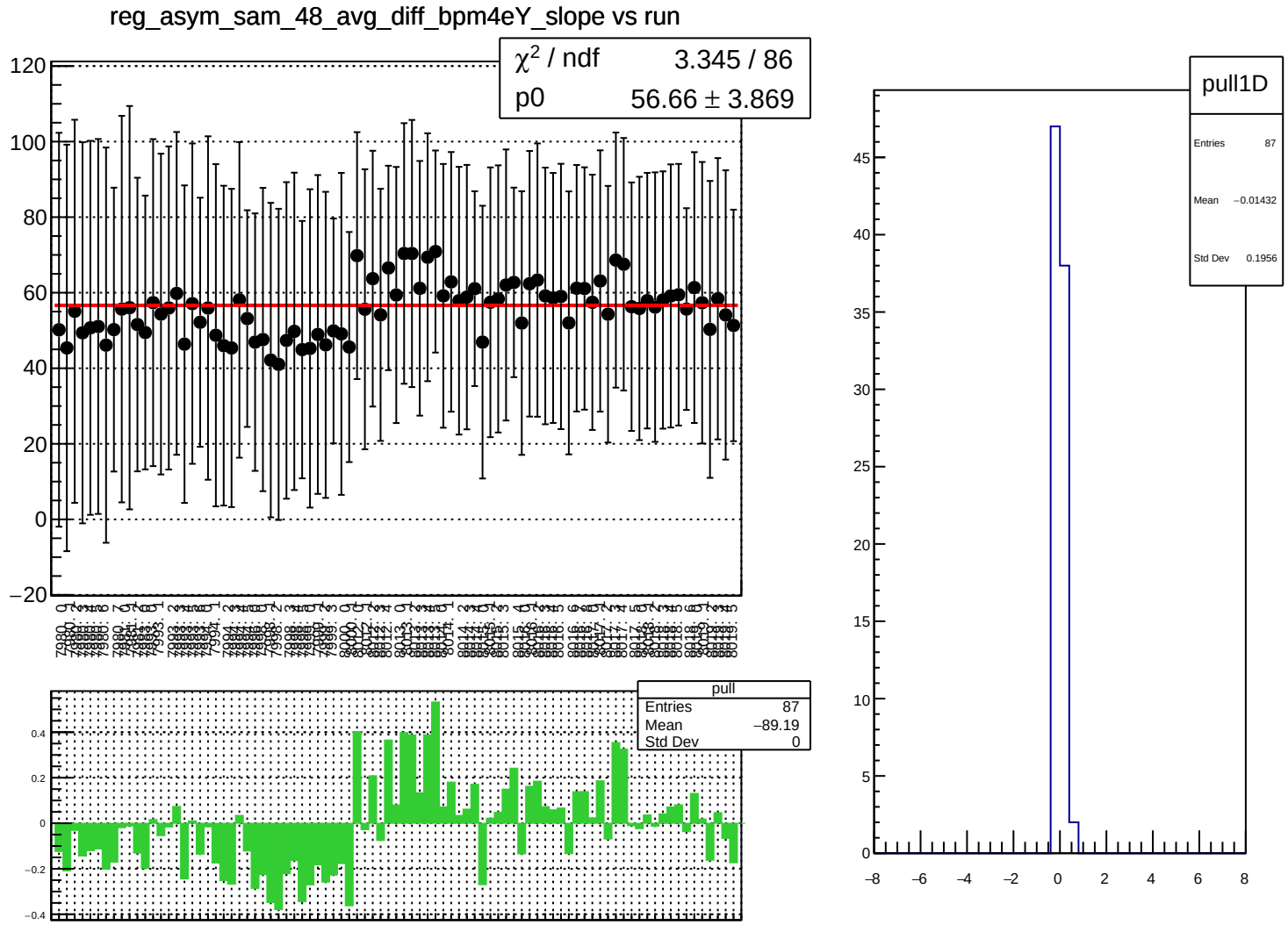

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 49.59 / 86
p0 1.525 ± 0.2001
pull
Entries 87
Mean 110.9
Std Dev 0
pull1D
Entries 87
Mean 0.223
Std Dev 0.7213

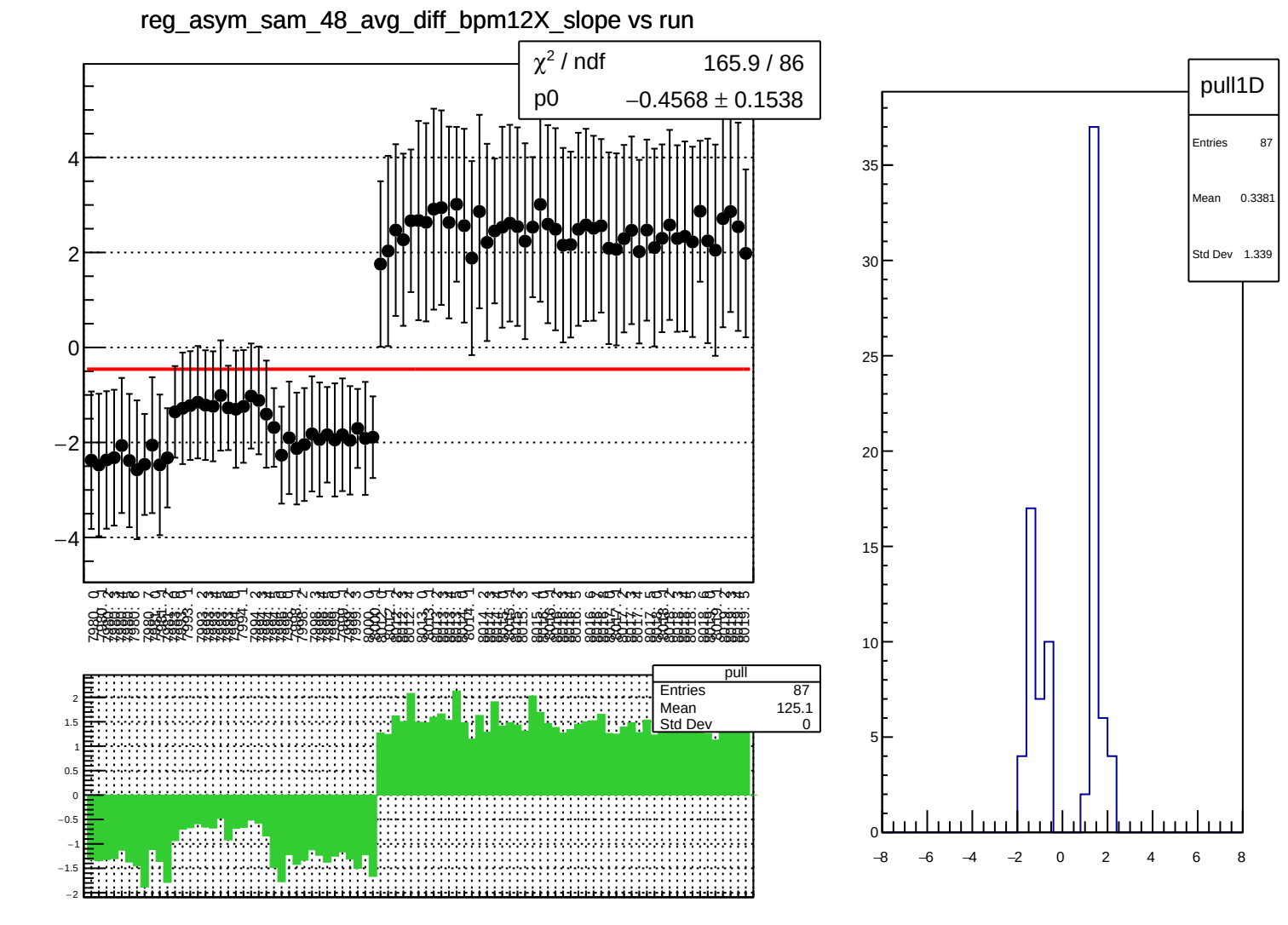

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 28.08 / 86
p0 −19.95 ± 2.421
pull
Entries 87
Mean −32.72
Std Dev 0

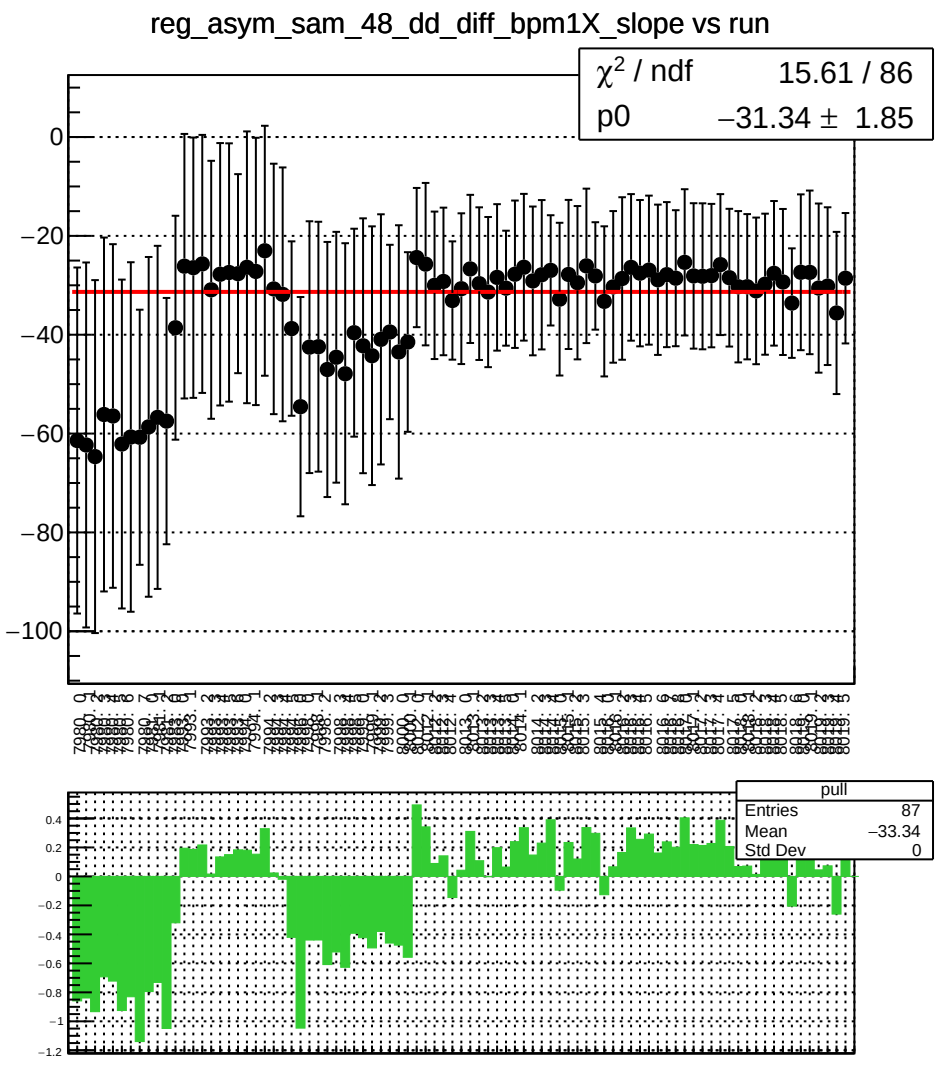

pull1D
Entries 87
Mean −0.1338
Std Dev 0.5521

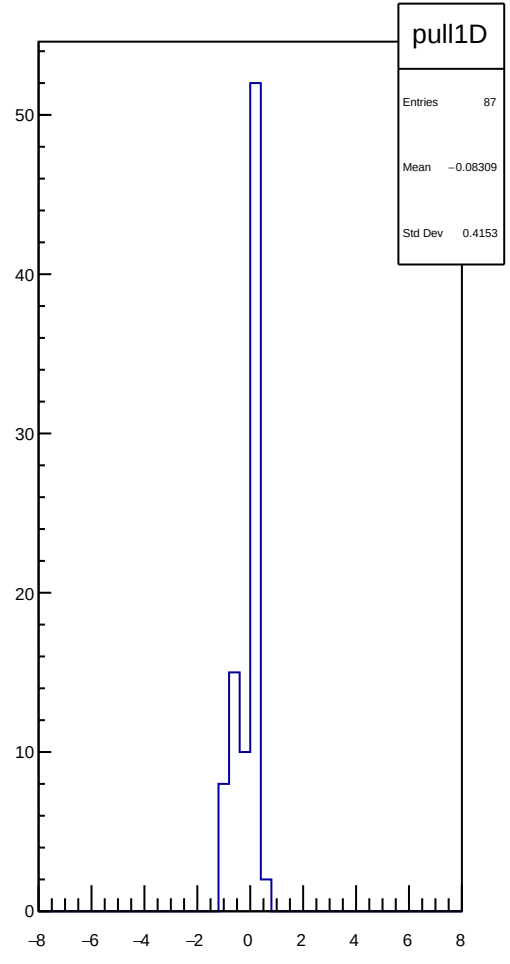

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.916 / 86
p0 53.48 ± 3.568
pull
Entries 87
Mean −63.62
Std Dev 0
pull1D
Entries 87
Mean 0.01278
Std Dev 0.1826

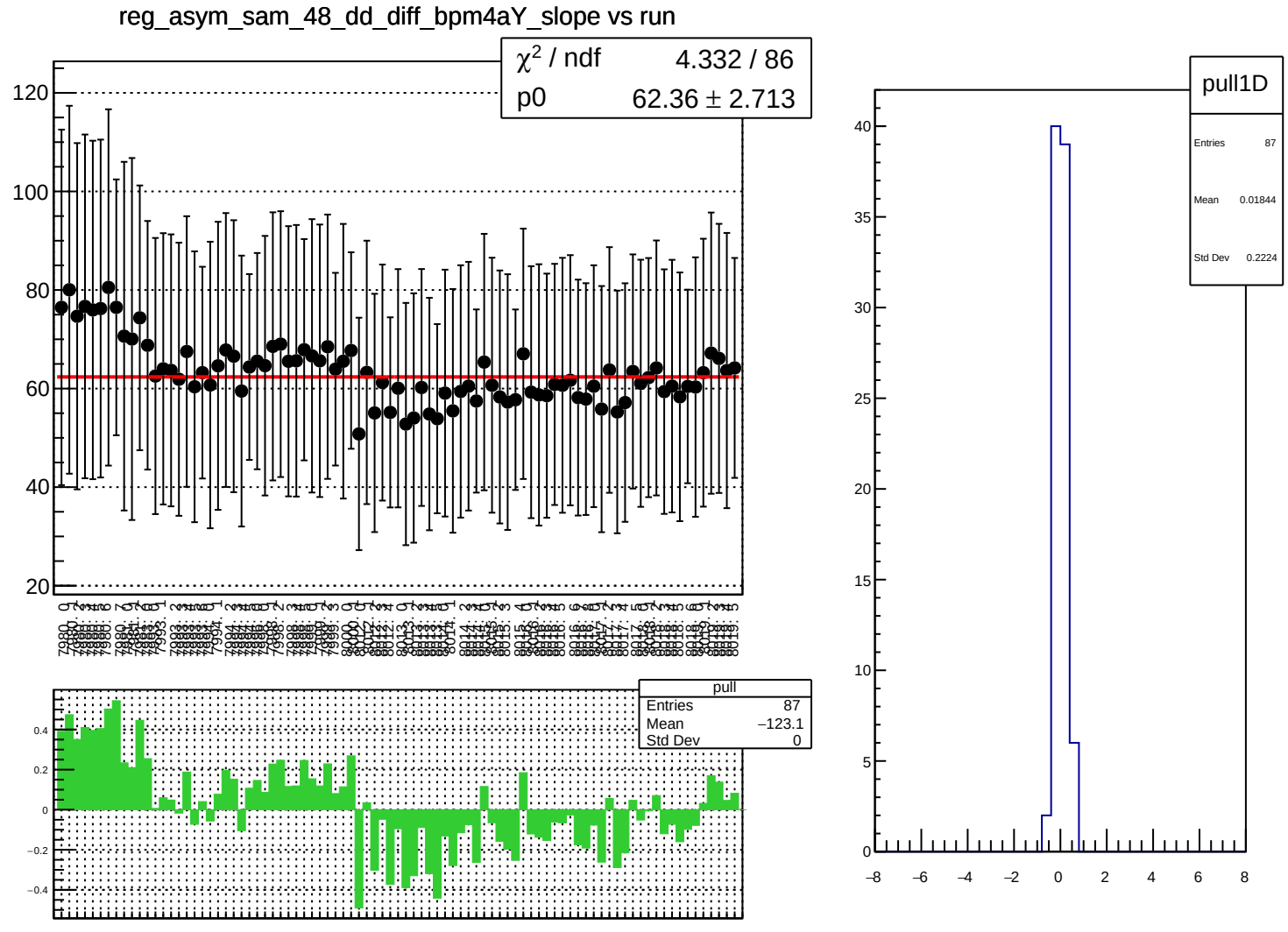

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.661 / 86
p0 −78.5 ± 2.484
−20
−40
−60
−80
−100
−120
pull
Entries 87
Mean −56.23
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 87
Mean 0.04094
Std Dev 0.3129
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

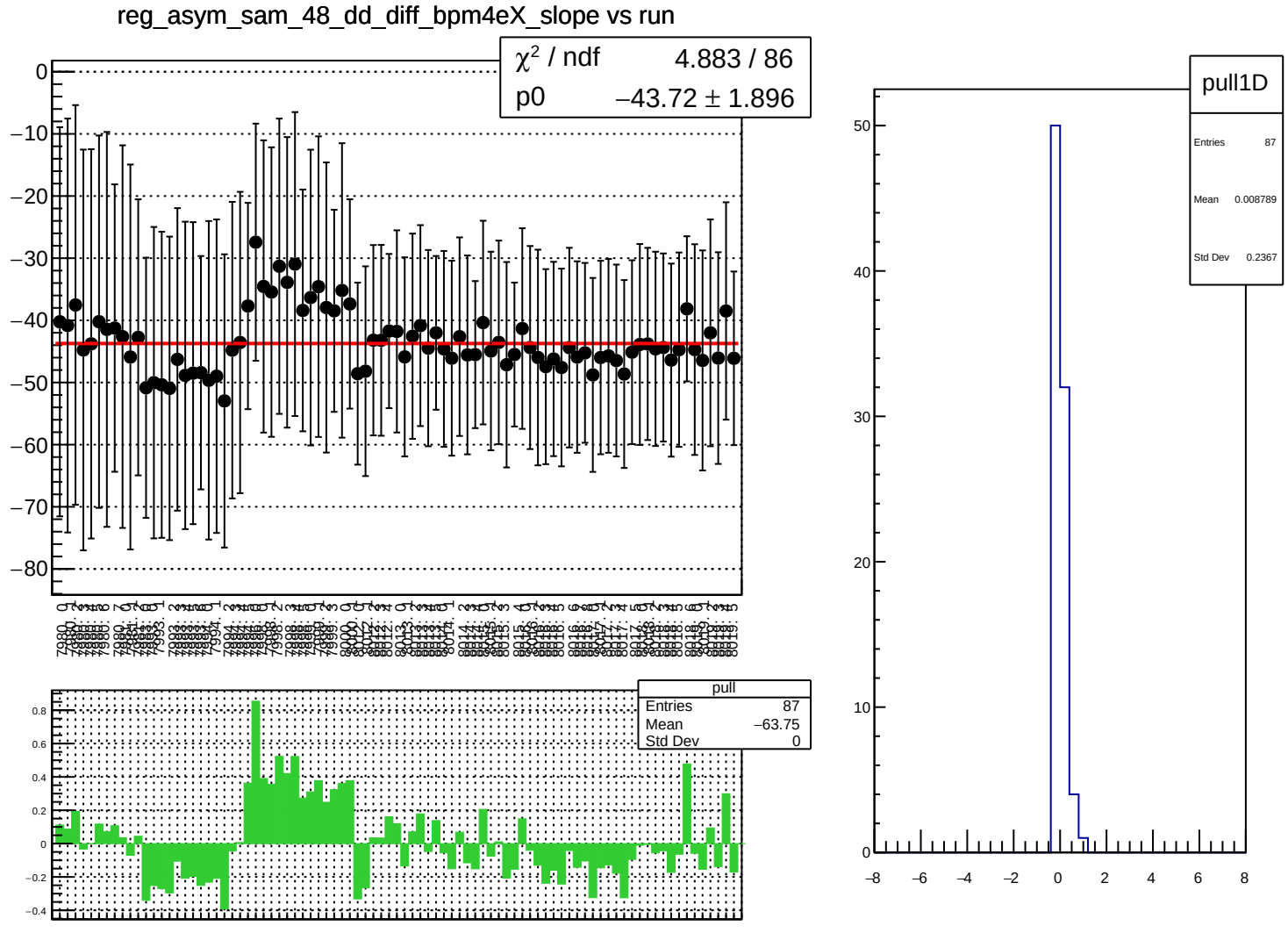

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.345 / 86
p0 56.66 ± 3.869
pull
Entries 87
Mean −89.19
Std Dev 0
pull1D
Entries 87
Mean −0.01432
Std Dev 0.1956

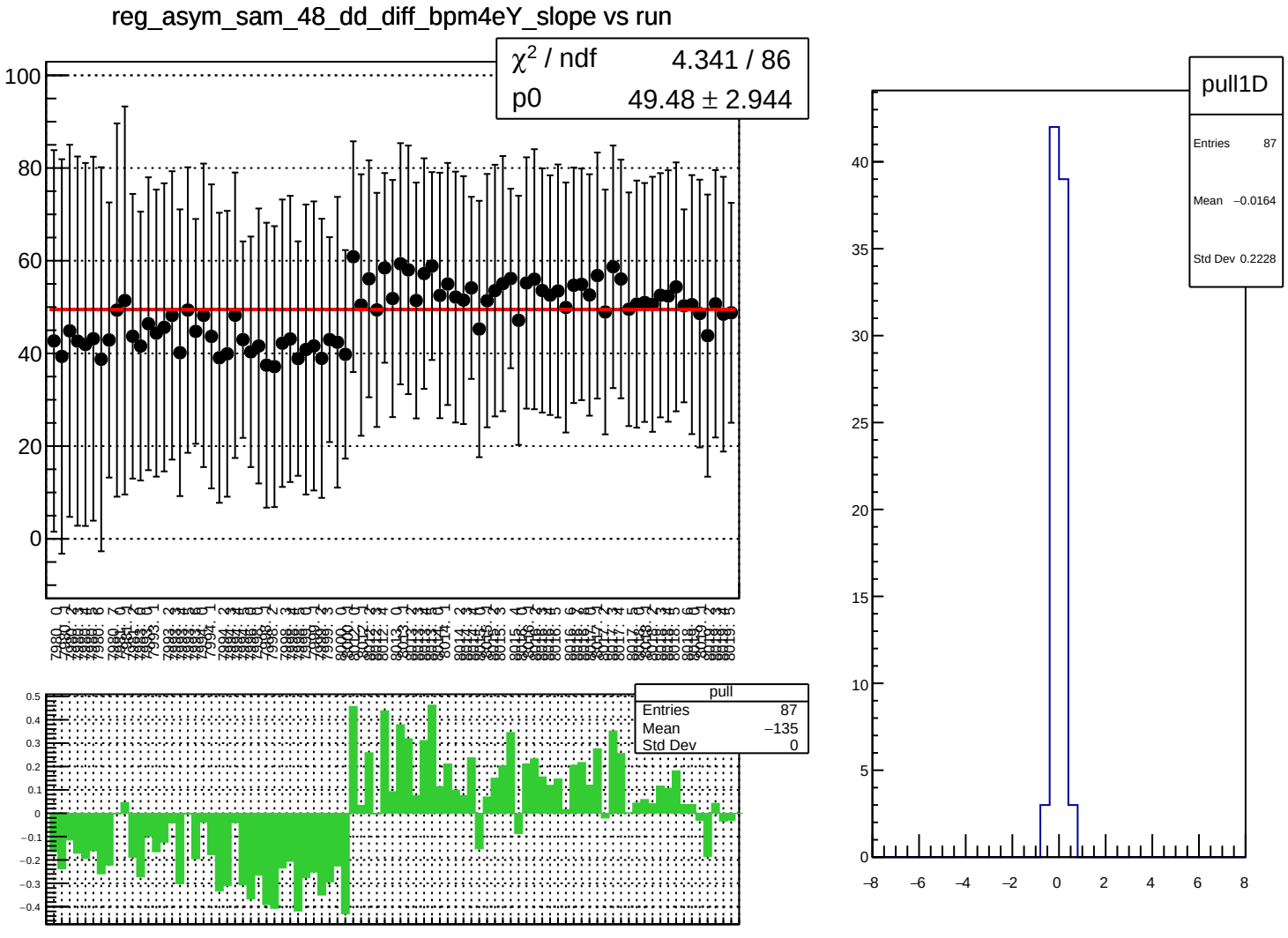

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 165.9 / 86
p0 −0.4568 ± 0.1538
pull
Entries 87
Mean 125.1
Std Dev 0
pull1D
Entries 87
Mean 0.3381
Std Dev 1.339

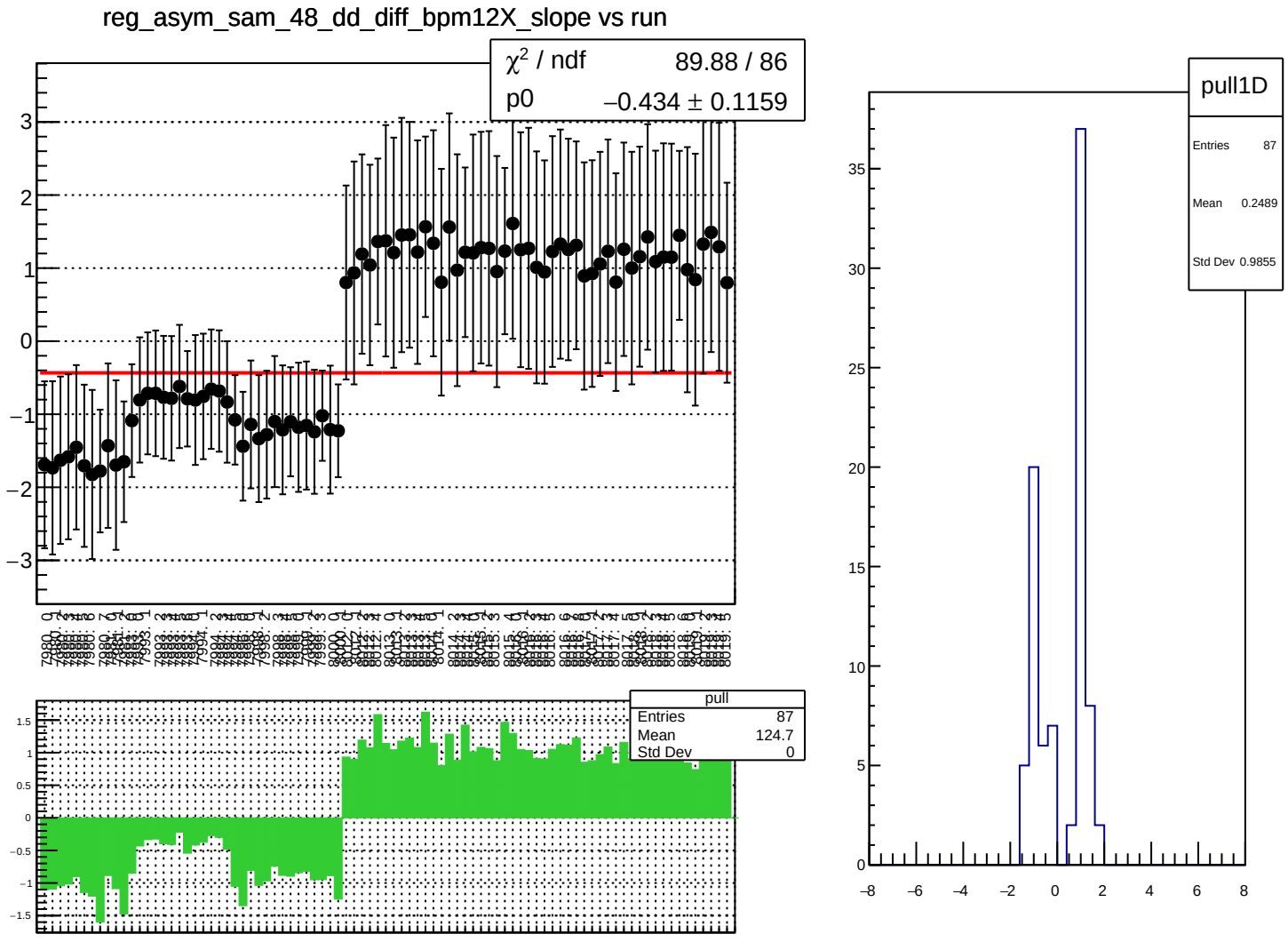

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 15.61 / 86
p0 −31.34 ± 1.85
pull
Entries 87
Mean −33.34
Std Dev 0

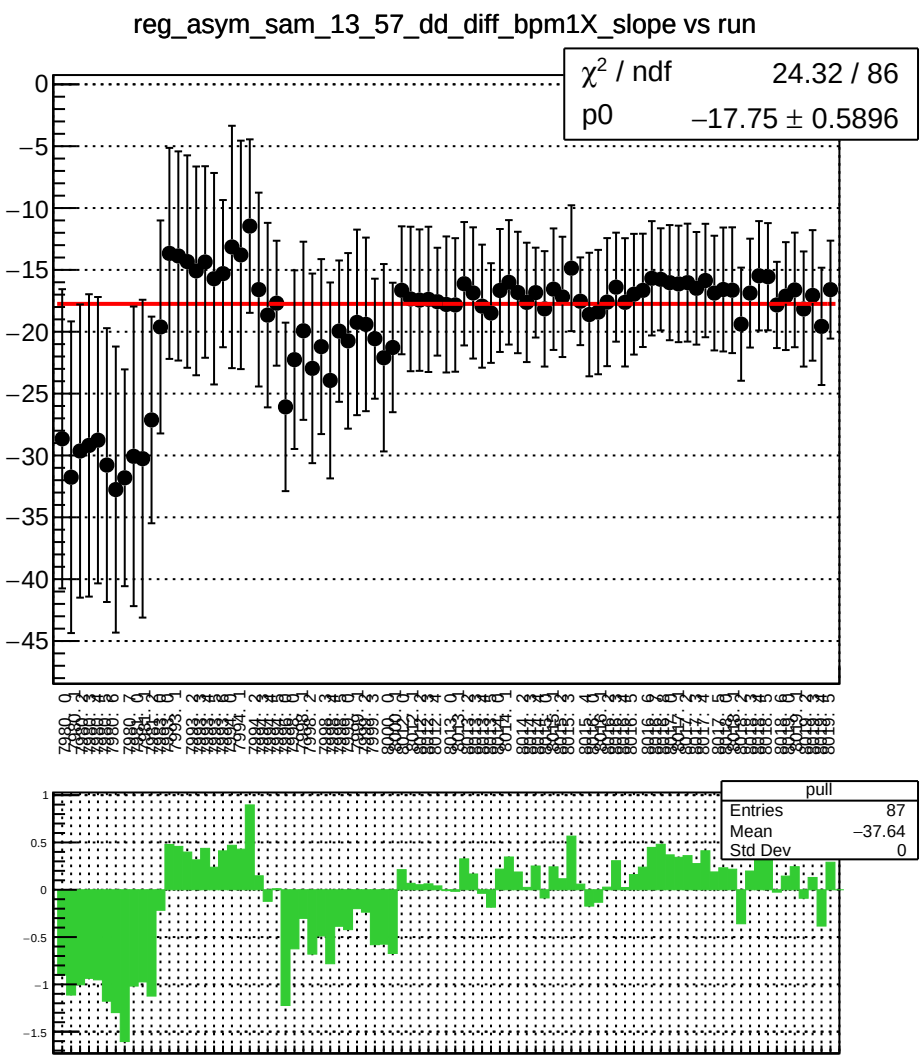

pull1D
Entries 87
Mean −0.08309
Std Dev 0.4153

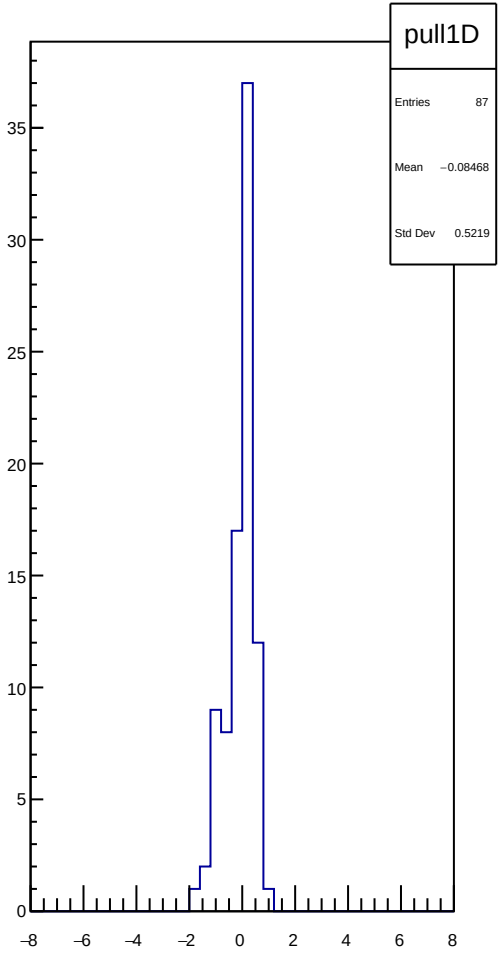

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.332 / 86
p0 62.36 ± 2.713
pull
Entries 87
Mean −123.1
Std Dev 0
pull1D
Entries 87
Mean 0.01844
Std Dev 0.2224

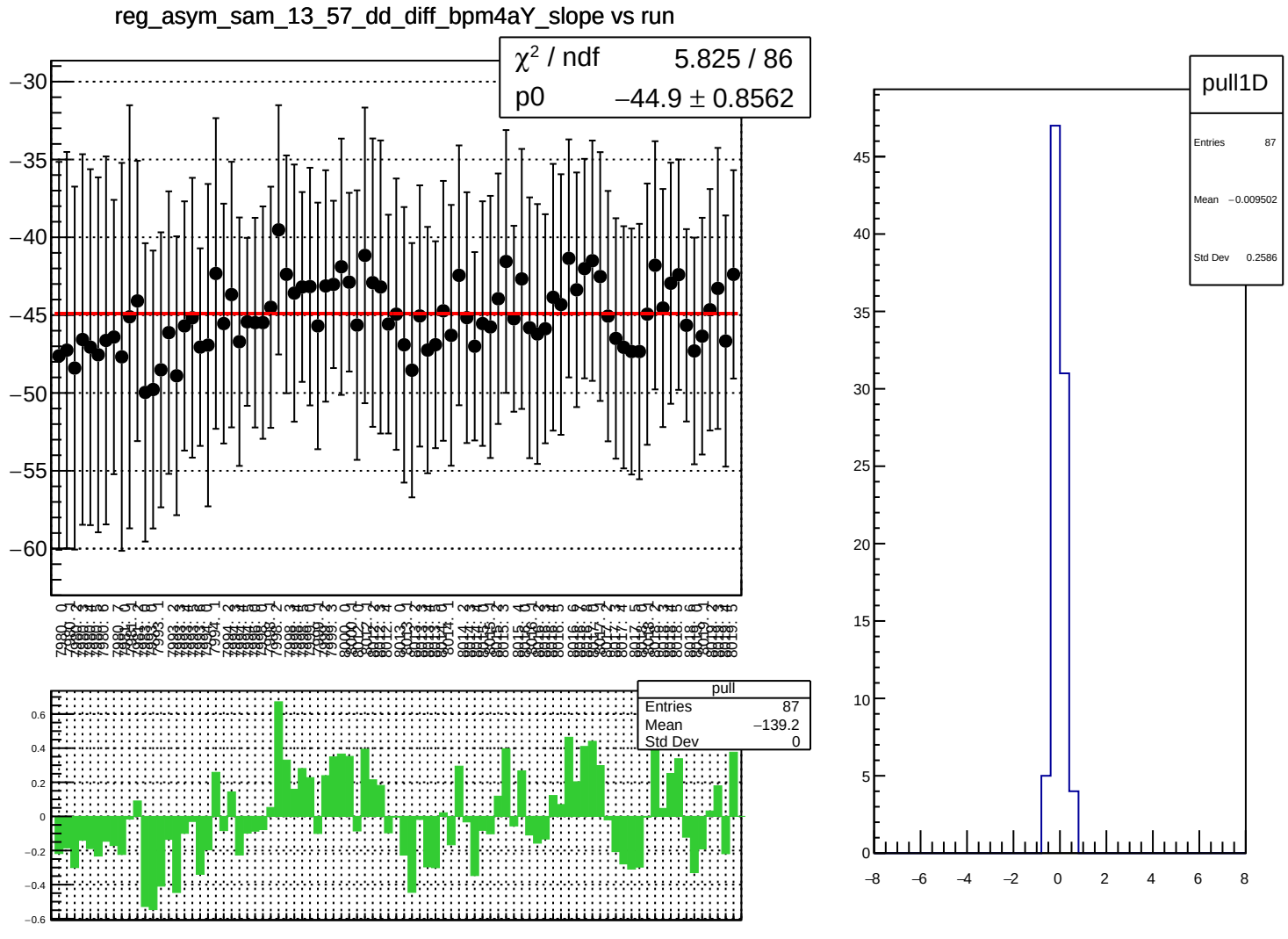

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.883 / 86
p0 −43.72 ± 1.896
pull
Entries 87
Mean −63.75
Std Dev 0
pull1D
Entries 87
Mean 0.008789
Std Dev 0.2367

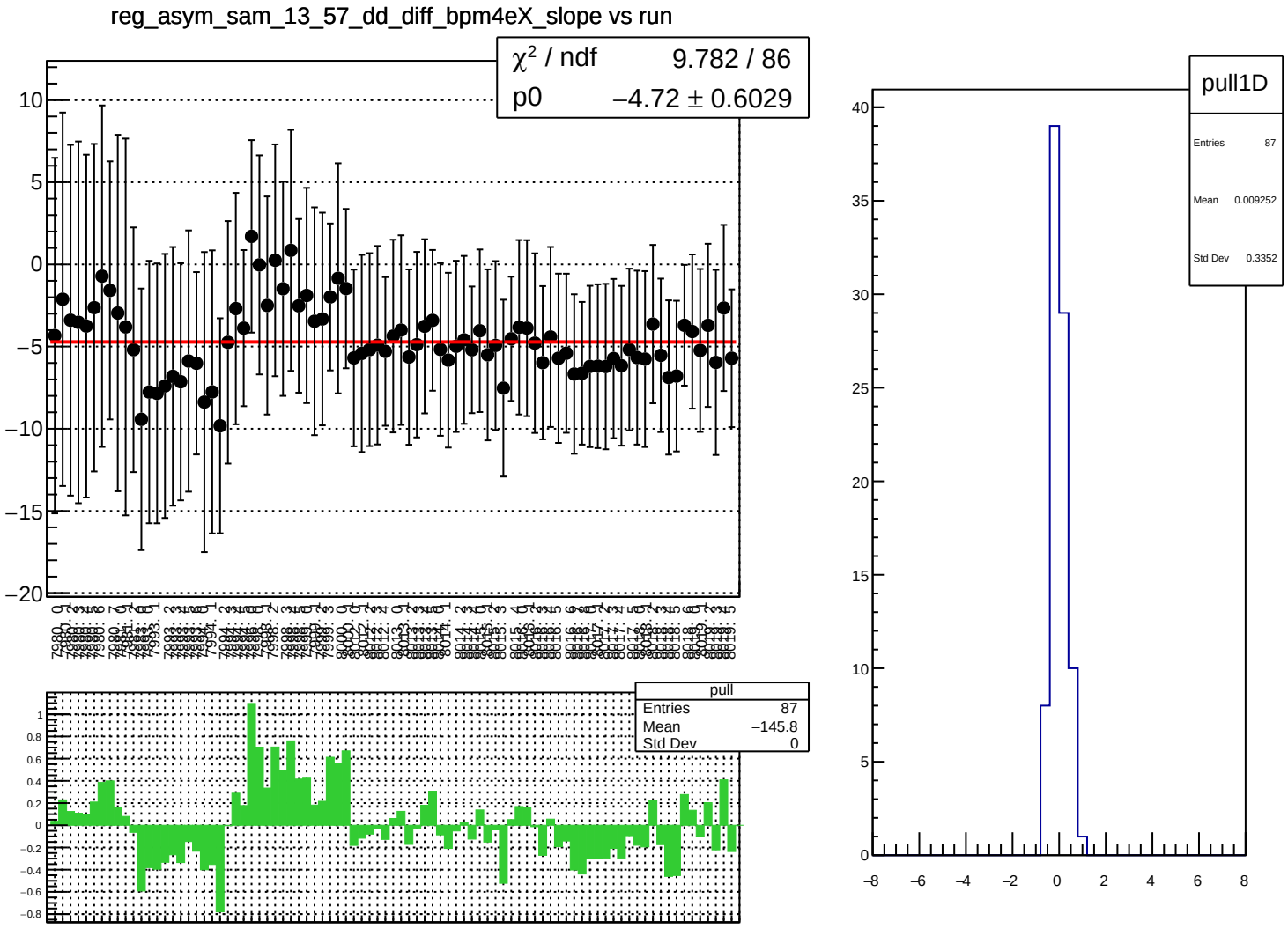

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.341 / 86
p0 49.48 ± 2.944
pull
Entries 87
Mean −135
Std Dev 0
pull1D
Entries 87
Mean −0.0164
Std Dev 0.2228

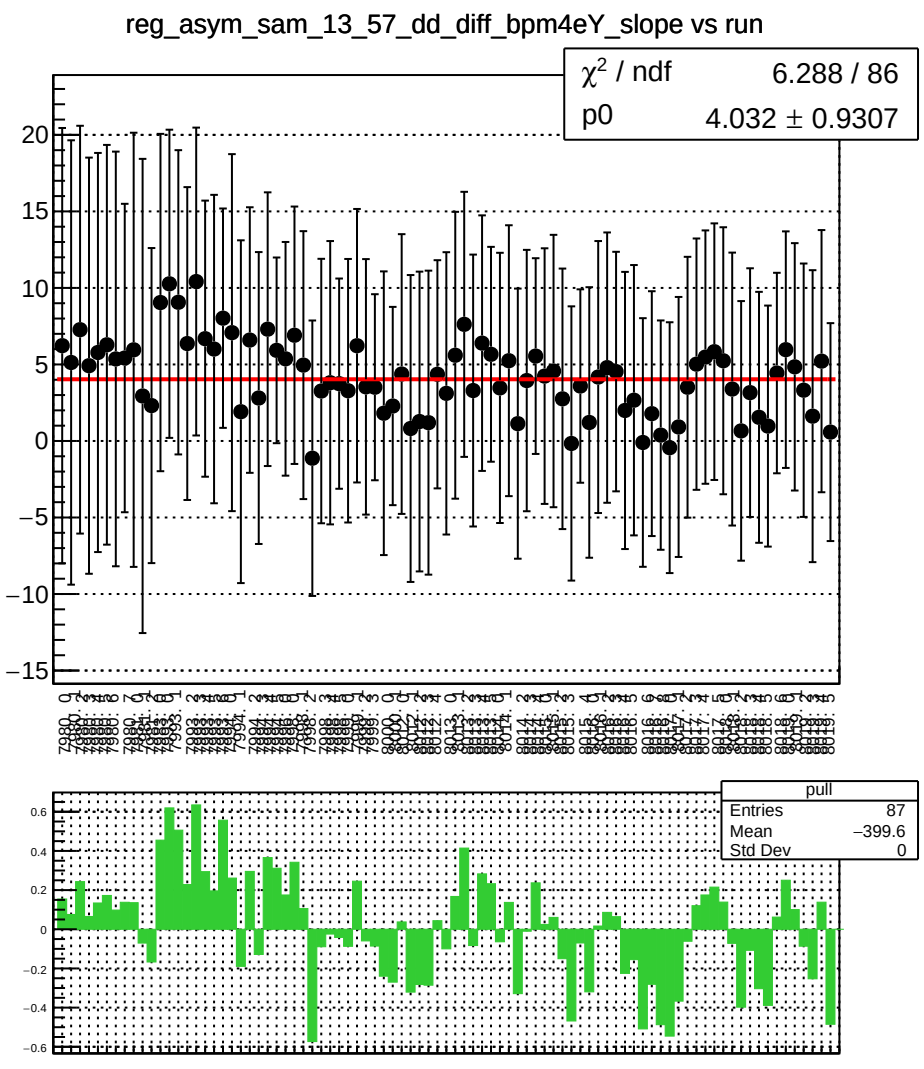

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 89.88 / 86
p0 −0.434 ± 0.1159
pull
Entries 87
Mean 124.7
Std Dev 0
pull1D
Entries 87
Mean 0.2489
Std Dev 0.9855

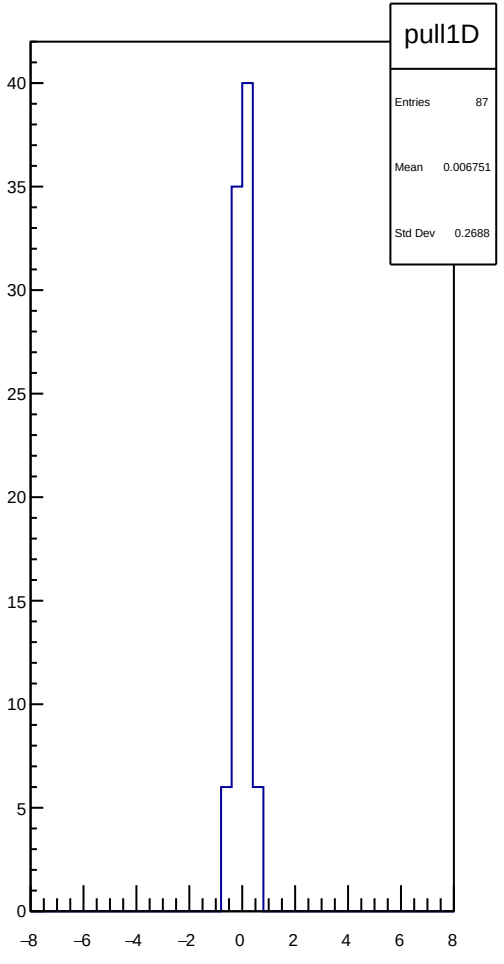

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 24.32 / 86
p0 −17.75 ± 0.5896
pull
Entries 87
Mean −37.64
Std Dev 0

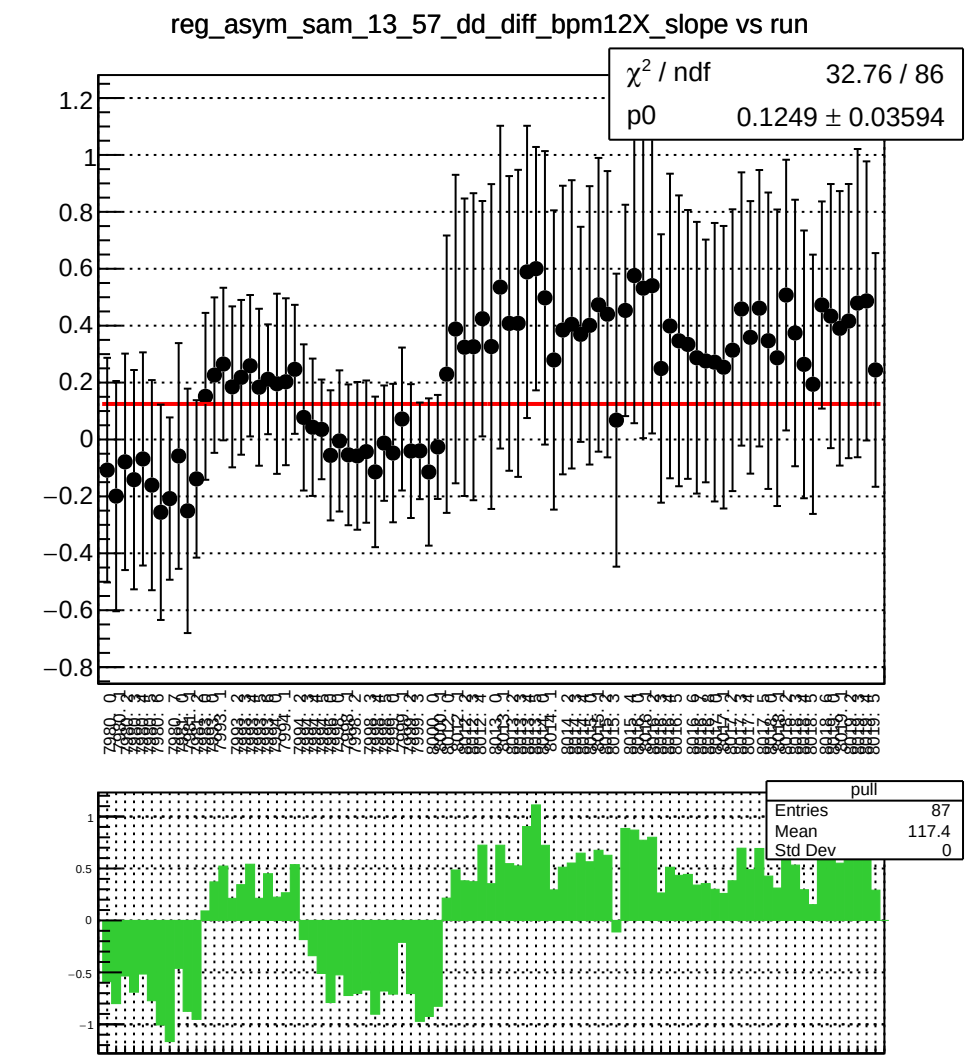

pull1D
Entries 87
Mean −0.08468
Std Dev 0.5219

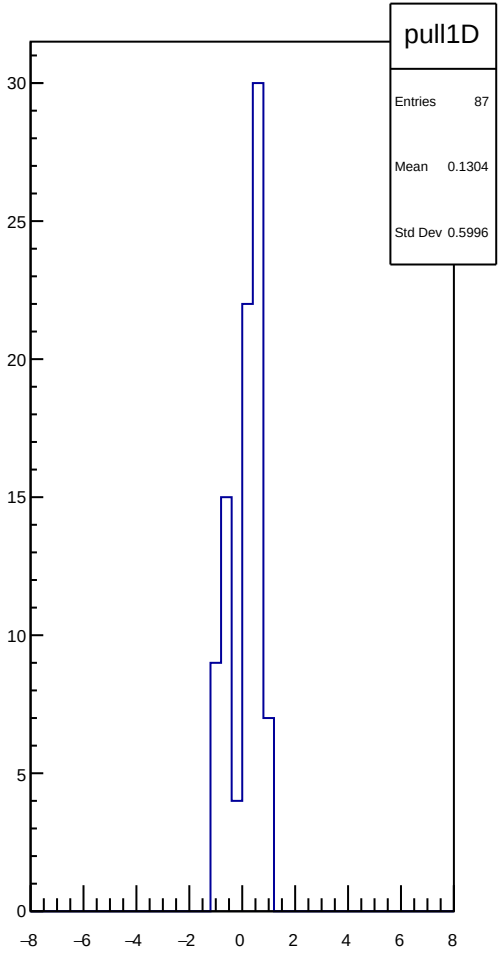

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.825 / 86
p0 −44.9 ± 0.8562
pull
Entries 87
Mean −139.2
Std Dev 0
pull1D
Entries 87
Mean −0.009502
Std Dev 0.2586

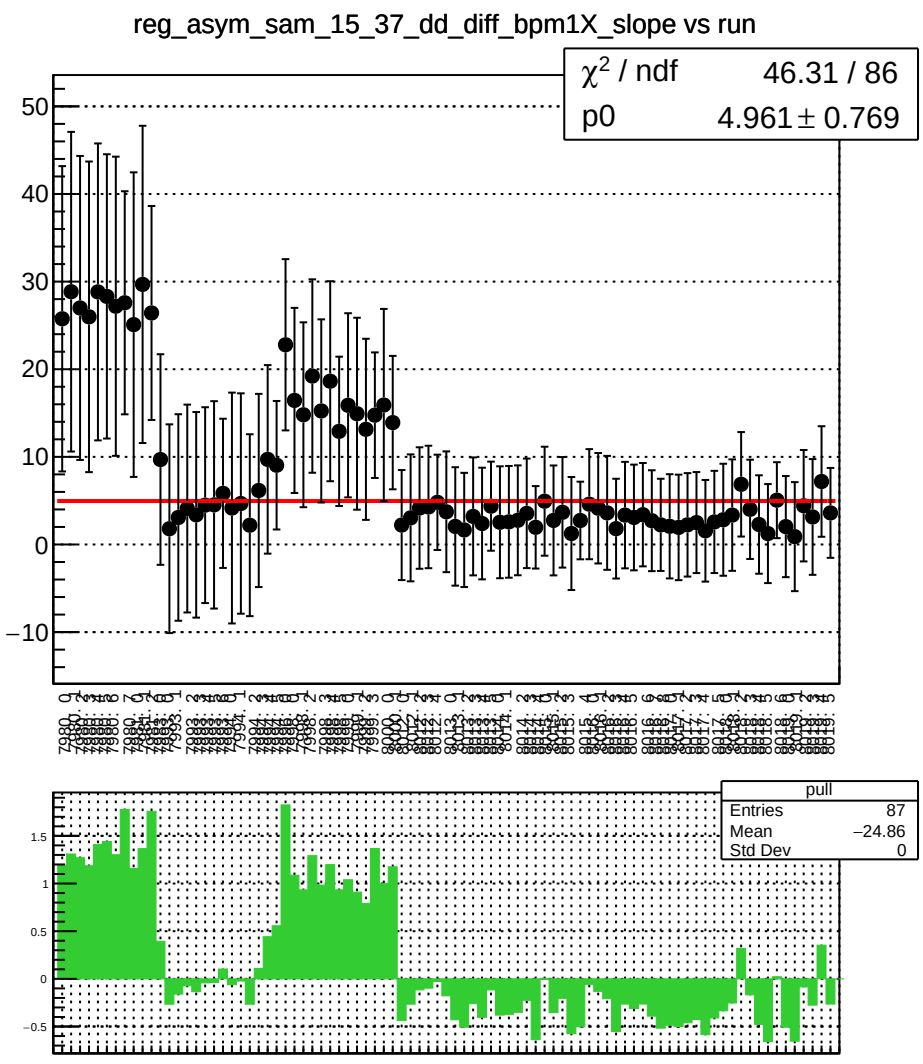

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.782 / 86
p0 −4.72 ± 0.6029
pull
Entries 87
Mean −145.8
Std Dev 0
pull1D
Entries 87
Mean 0.009252
Std Dev 0.3352

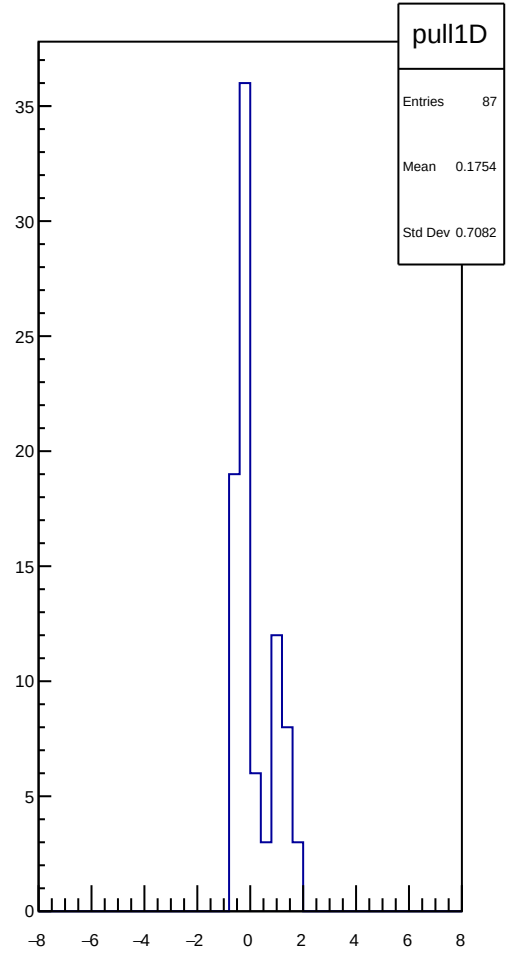

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.288 / 86
p0 4.032 ± 0.9307
pull
Entries 87
Mean −399.6
Std Dev 0

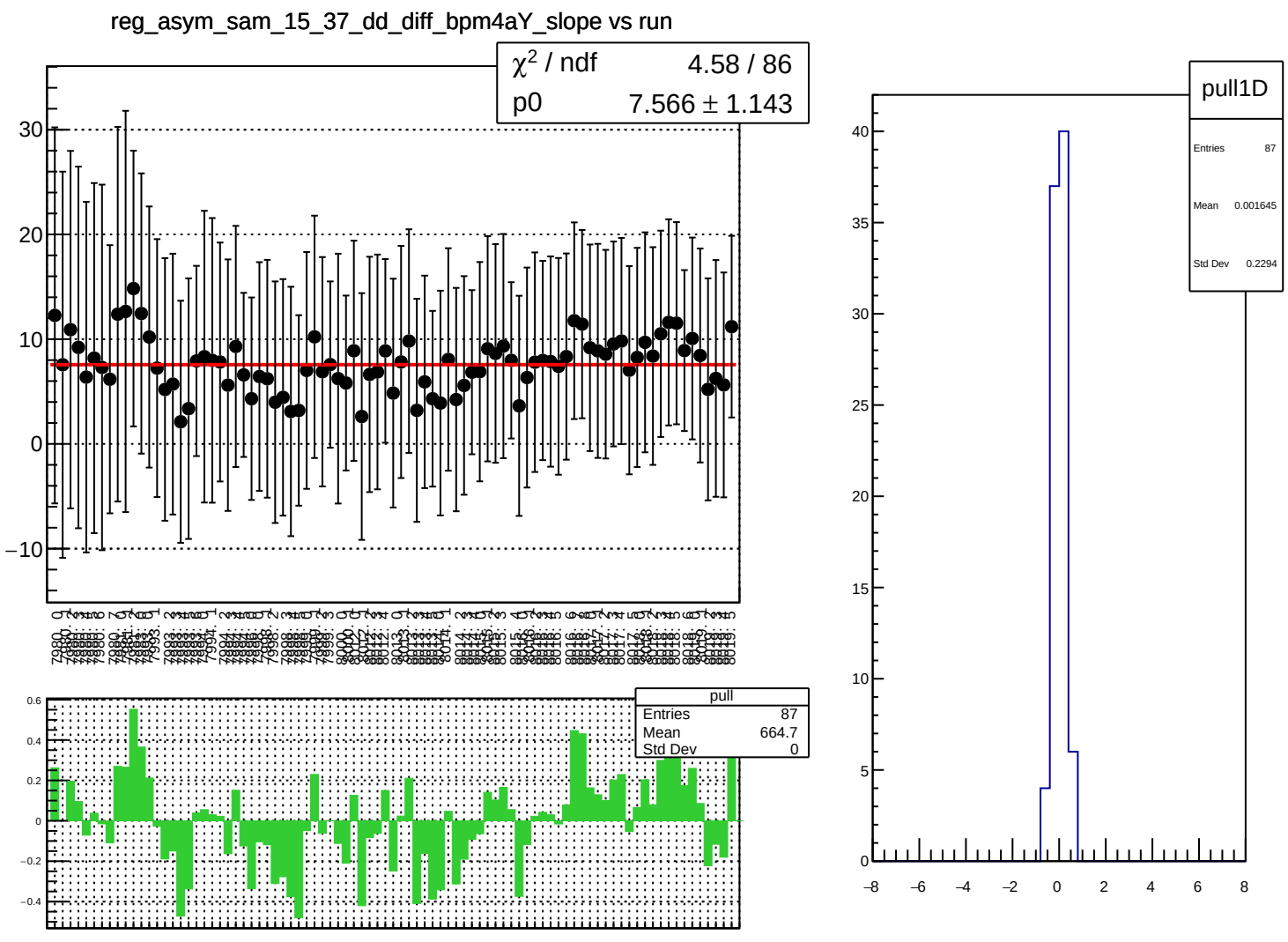

pull1D
Entries 87
Mean 0.006751
Std Dev 0.2688

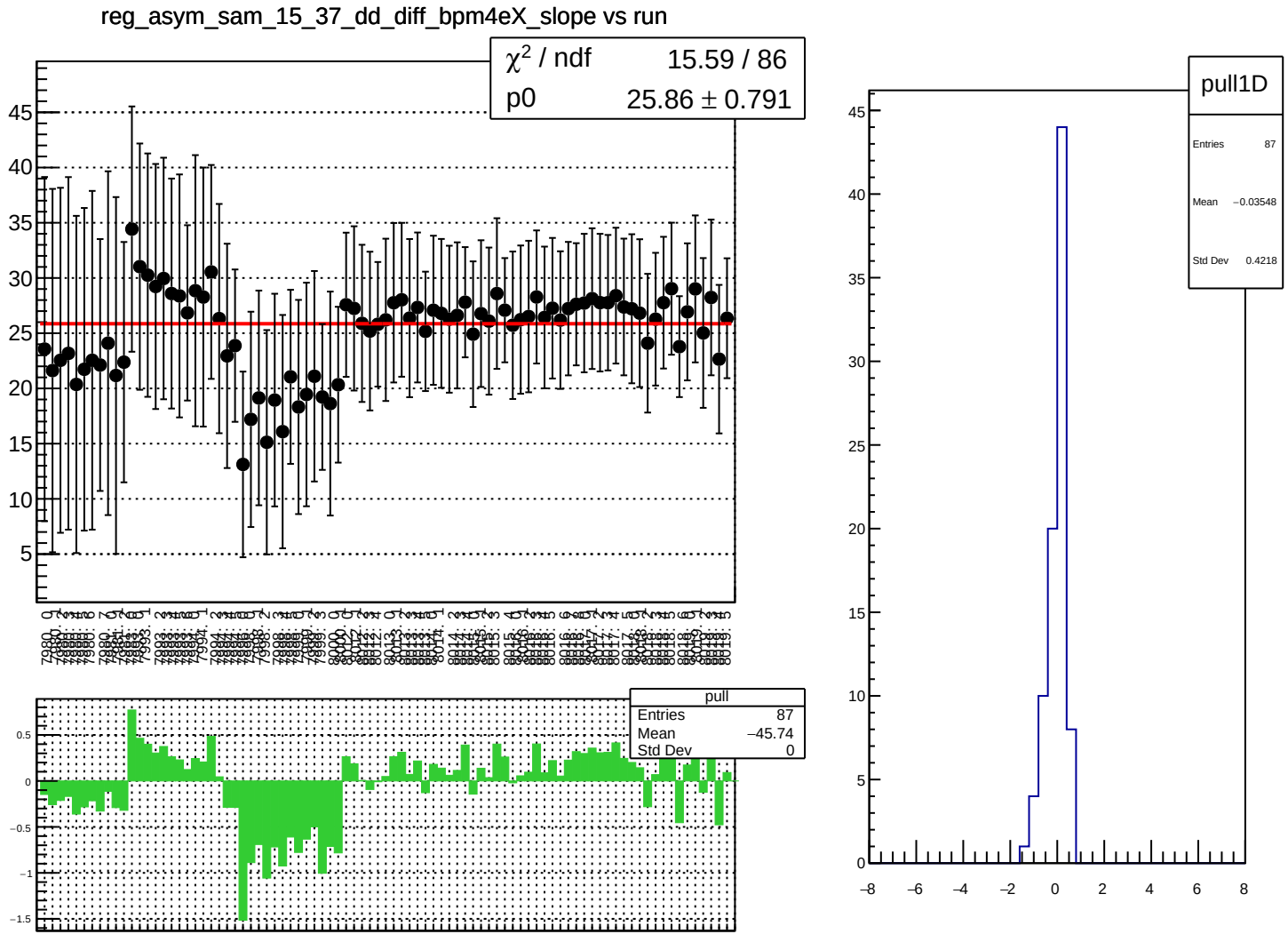

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 32.76 / 86
p0 0.1249 ± 0.03594
pull
Entries 87
Mean 117.4
Std Dev 0

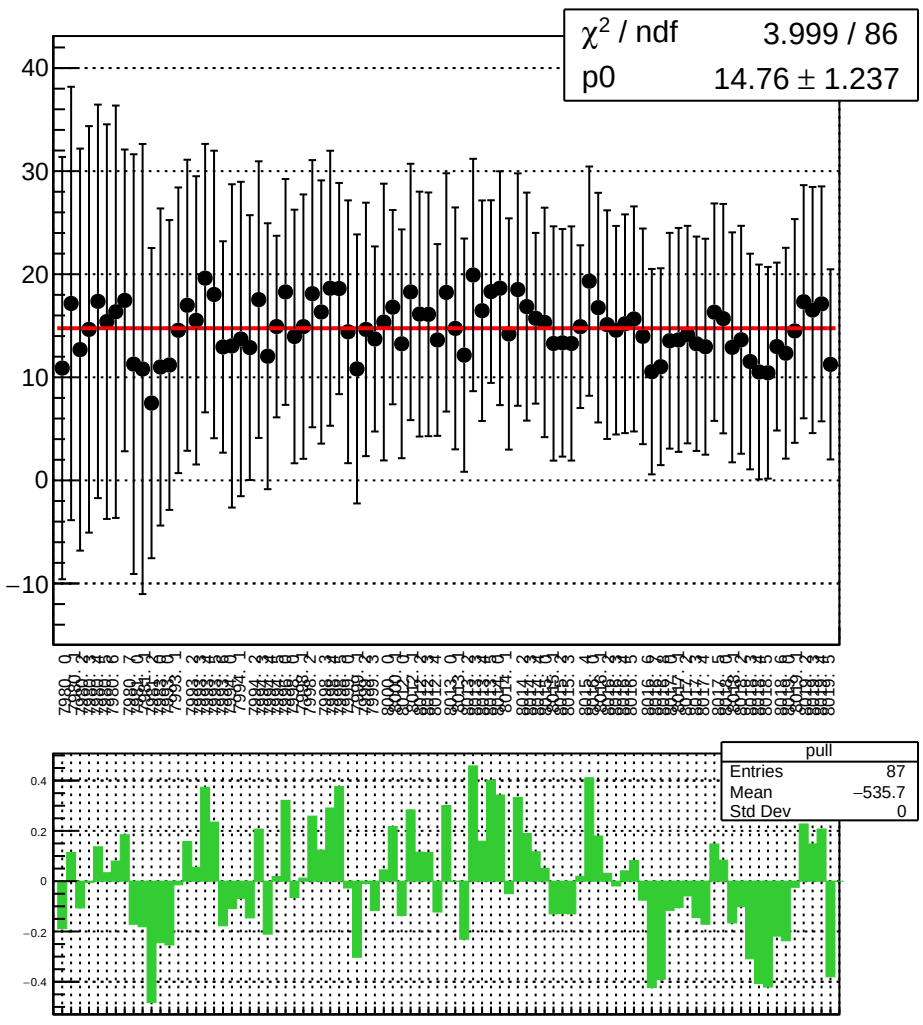

pull1D
Entries 87
Mean 0.1304
Std Dev 0.5996

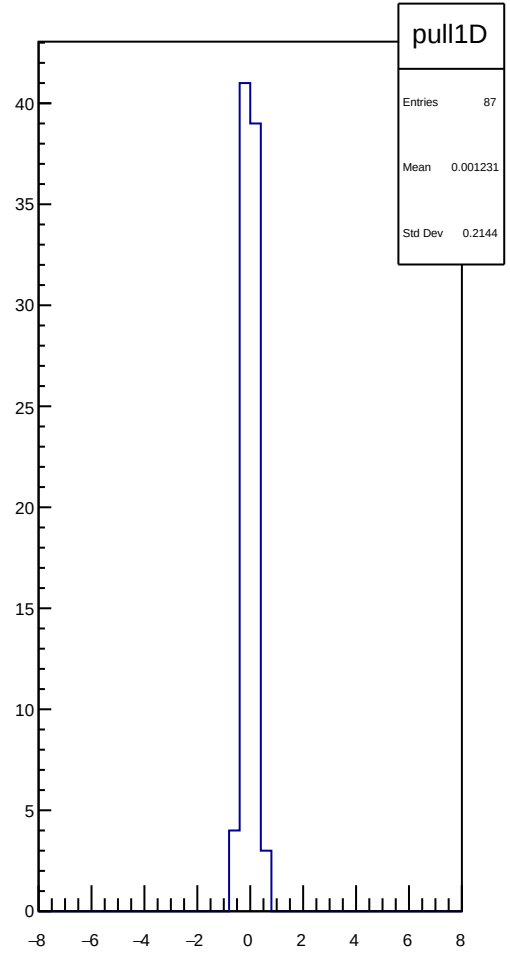

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 46.31 / 86
p0 4.961 ± 0.769
pull
Entries 87
Mean −24.86
Std Dev 0

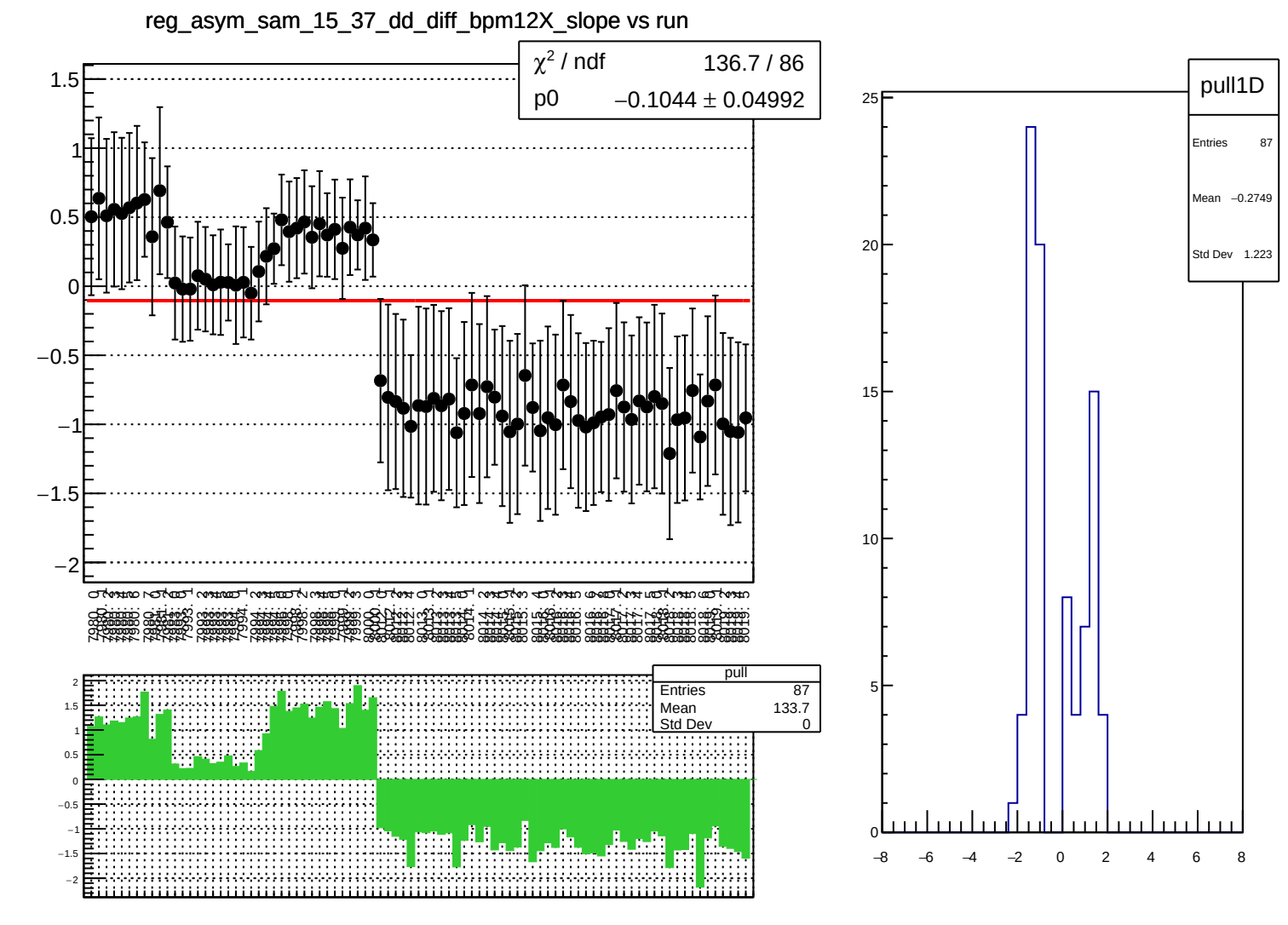

pull1D
Entries 87
Mean 0.1754
Std Dev 0.7082

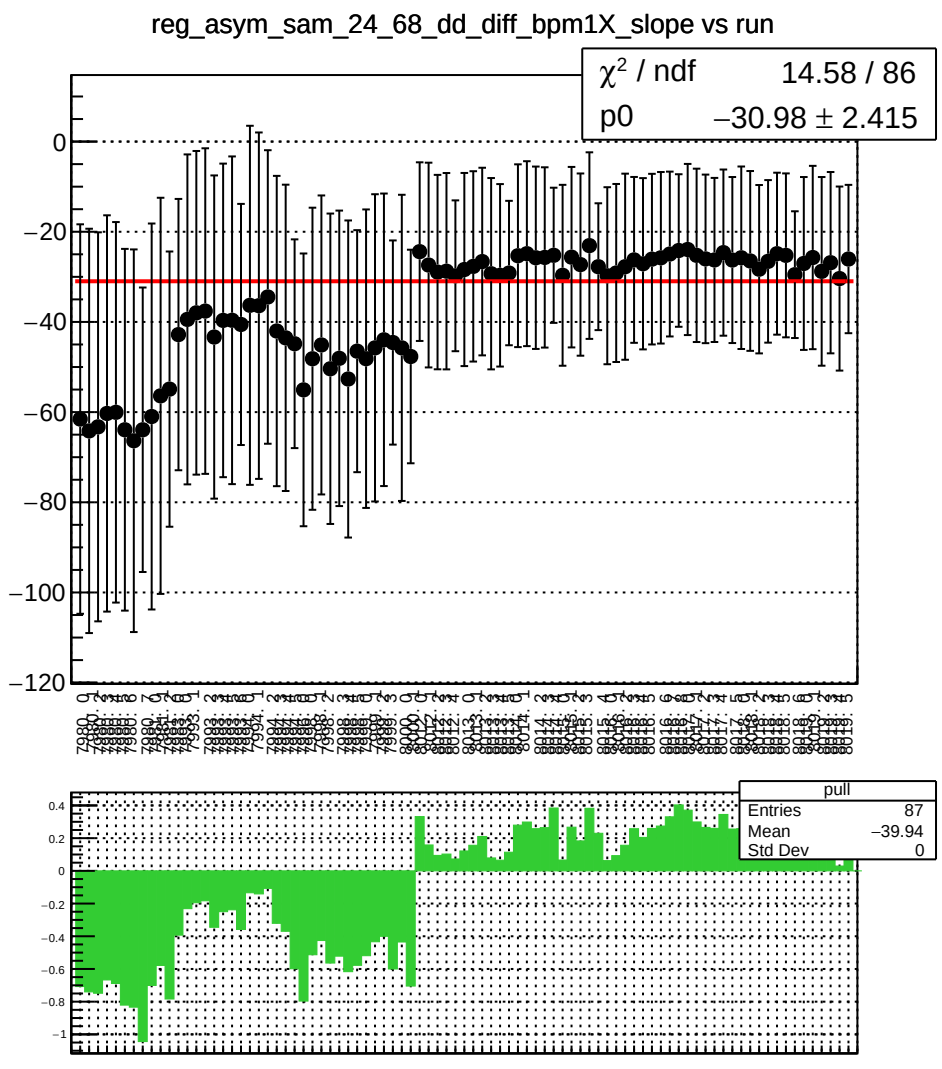

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.58 / 86
p0 7.566 ± 1.143
pull
Entries 87
Mean 664.7
Std Dev 0
pull1D
Entries 87
Mean 0.001645
Std Dev 0.2294

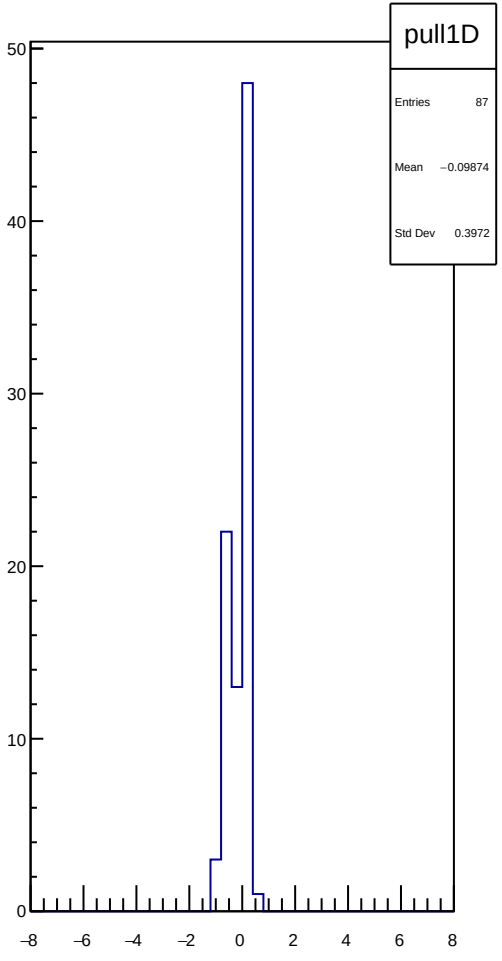

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.59 / 86
p0 25.86 ± 0.791
pull
Entries 87
Mean −45.74
Std Dev 0
pull1D
Entries 87
Mean −0.03548
Std Dev 0.4218

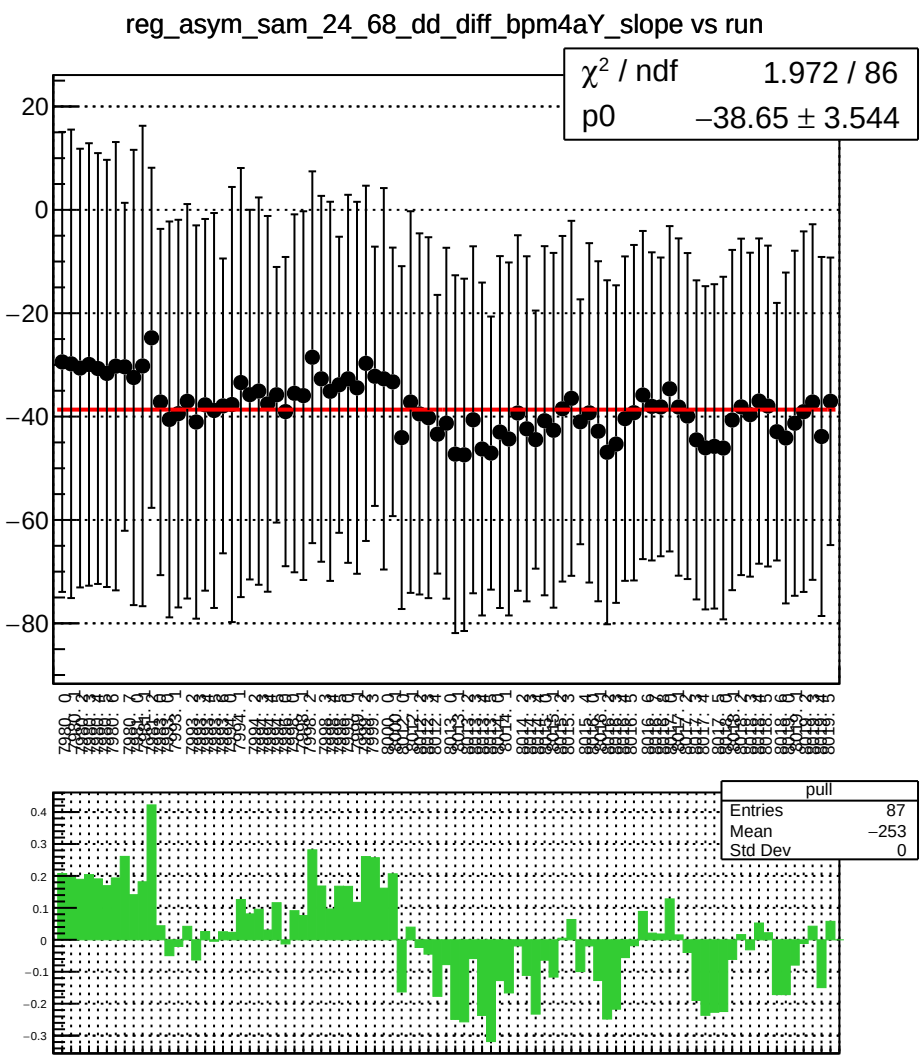

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.999 / 86
p0 14.76 ± 1.237
pull
Entries 87
Mean −535.7
Std Dev 0

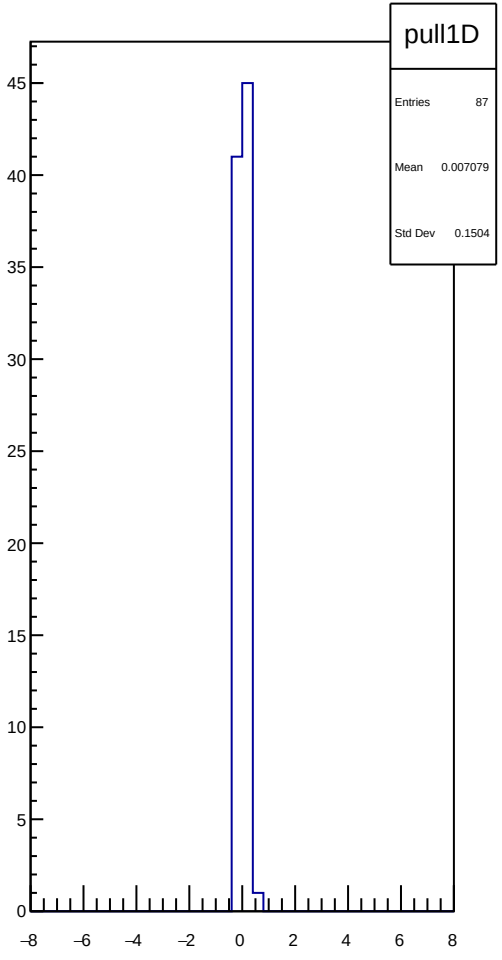

pull1D
Entries 87
Mean 0.001231
Std Dev 0.2144

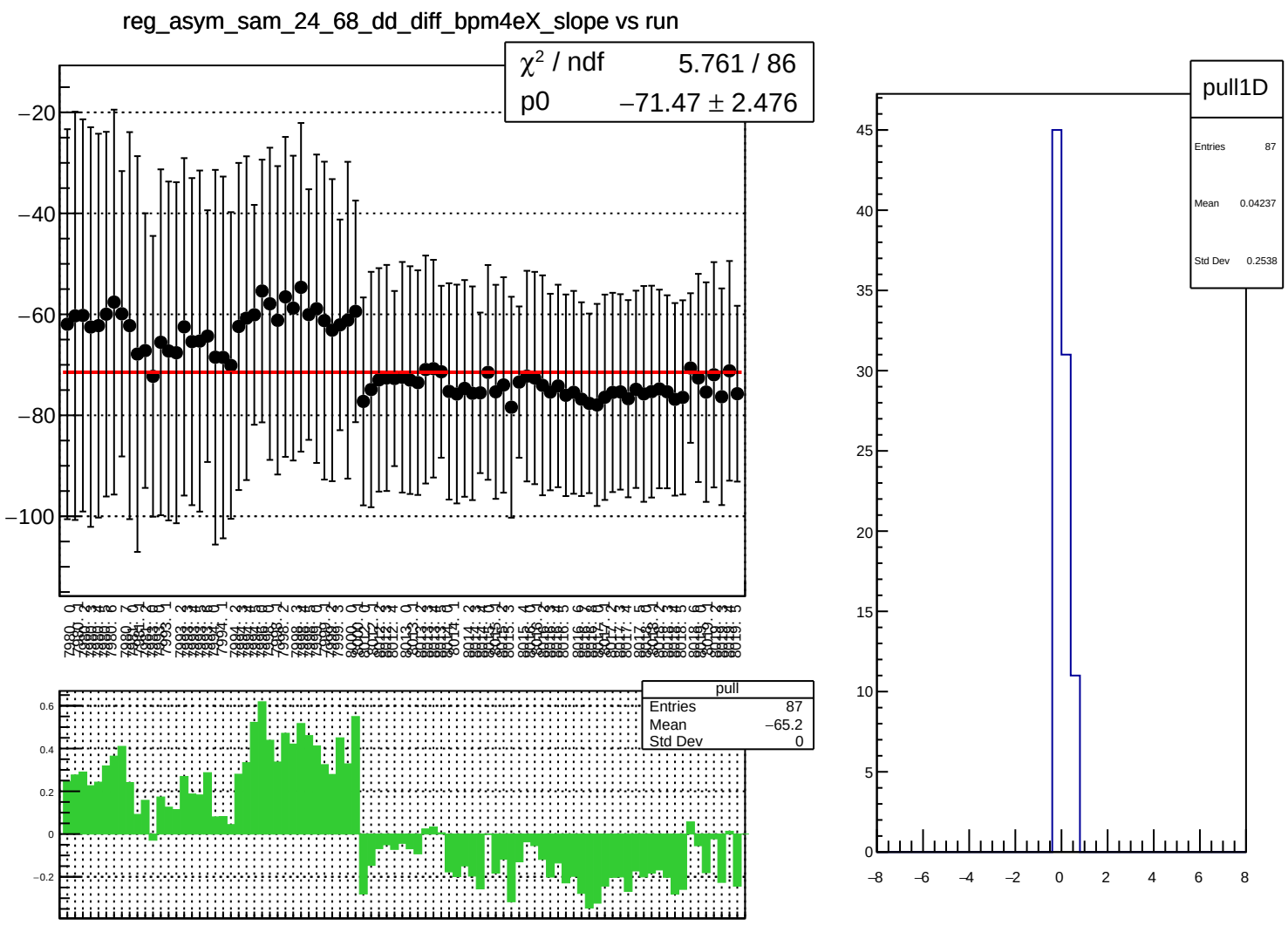

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 136.7 / 86
p0 −0.1044 ± 0.04992
pull
Entries 87
Mean 133.7
Std Dev 0
pull1D
Entries 87
Mean −0.2749
Std Dev 1.223

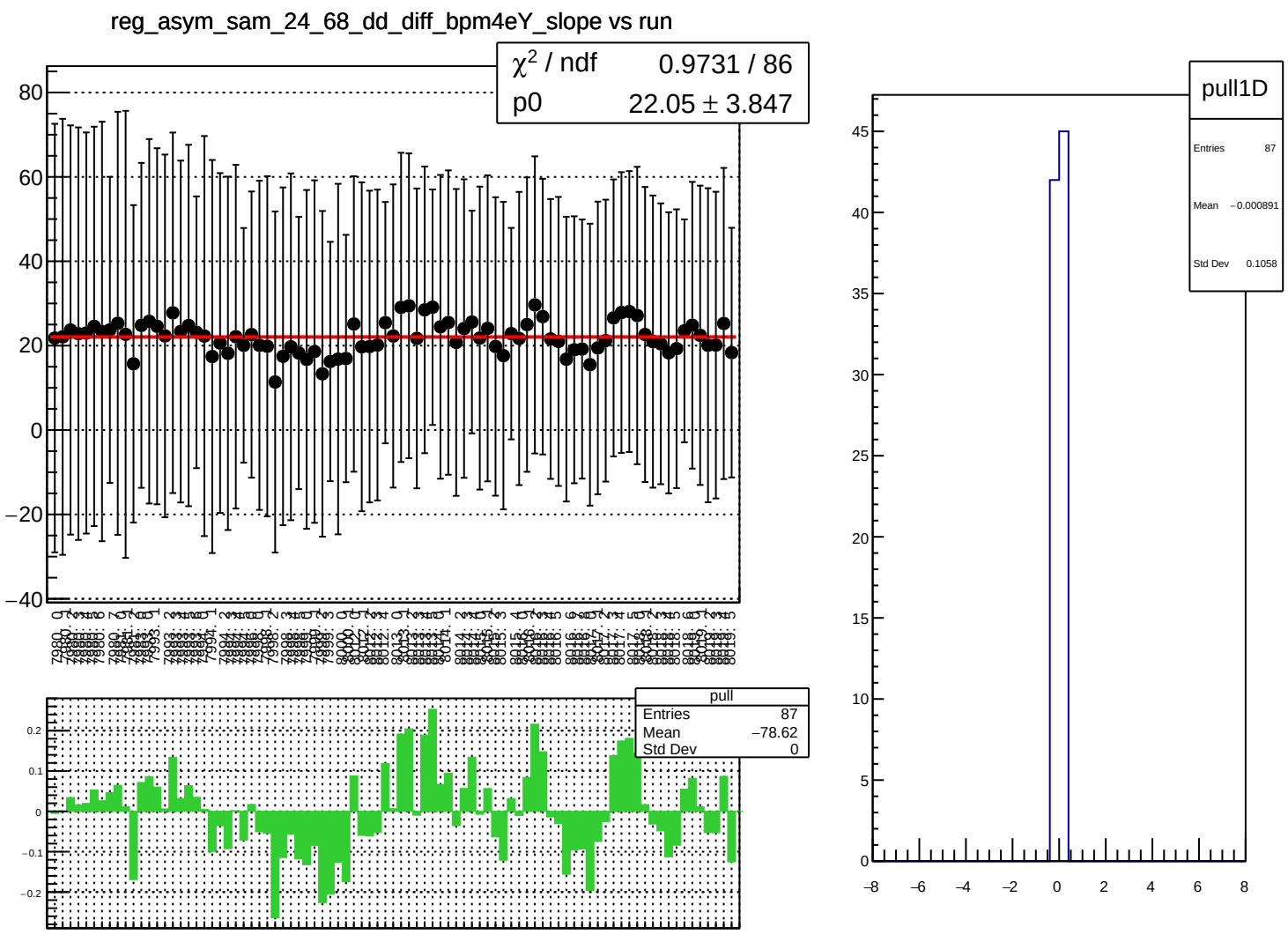

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 14.58 / 86
p0 −30.98 ± 2.415
pull
Entries 87
Mean −39.94
Std Dev 0

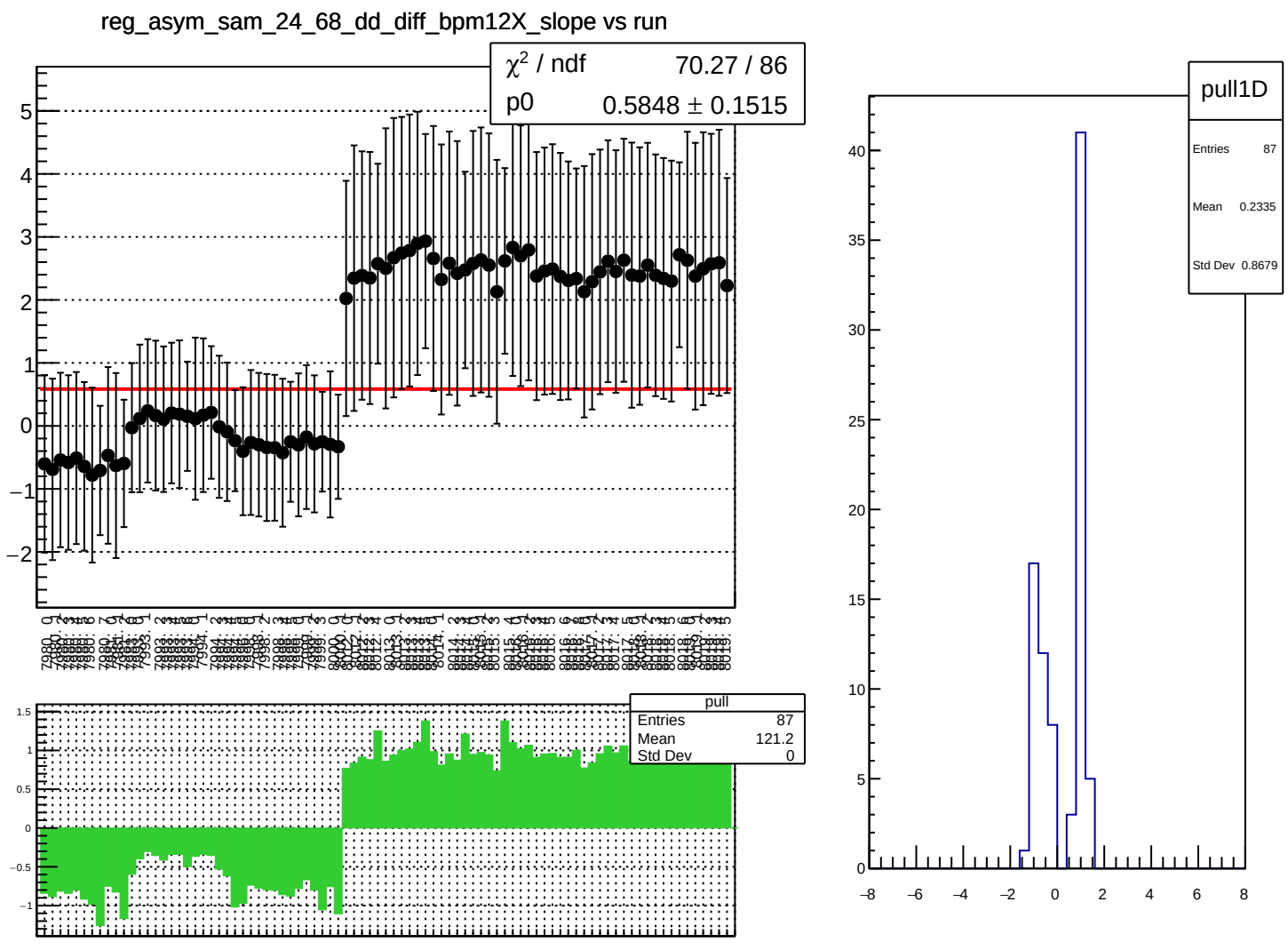

pull1D
Entries 87
Mean −0.09874
Std Dev 0.3972

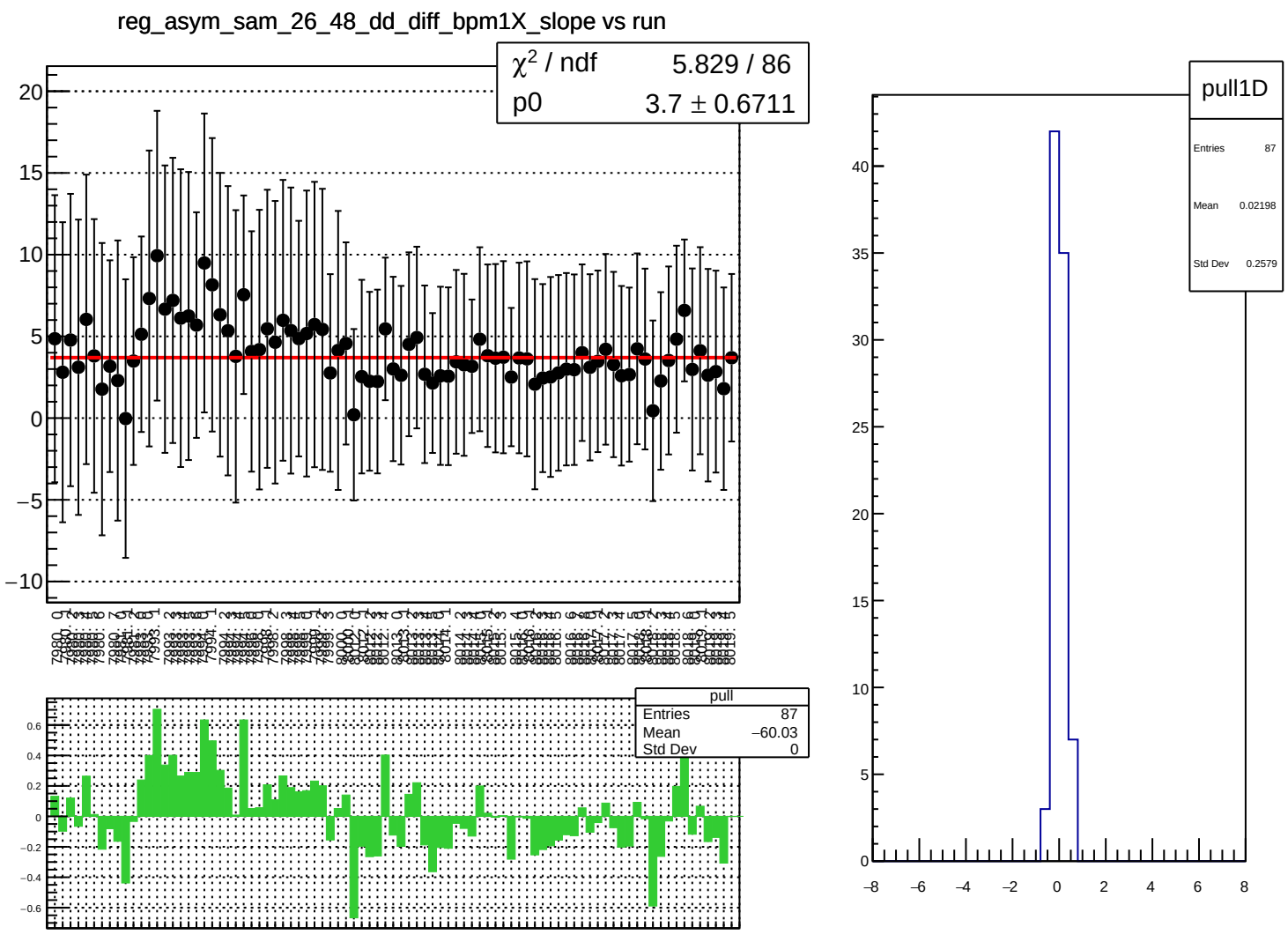

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.972 / 86
p0 −38.65 ± 3.544
pull
Entries 87
Mean −253
Std Dev 0

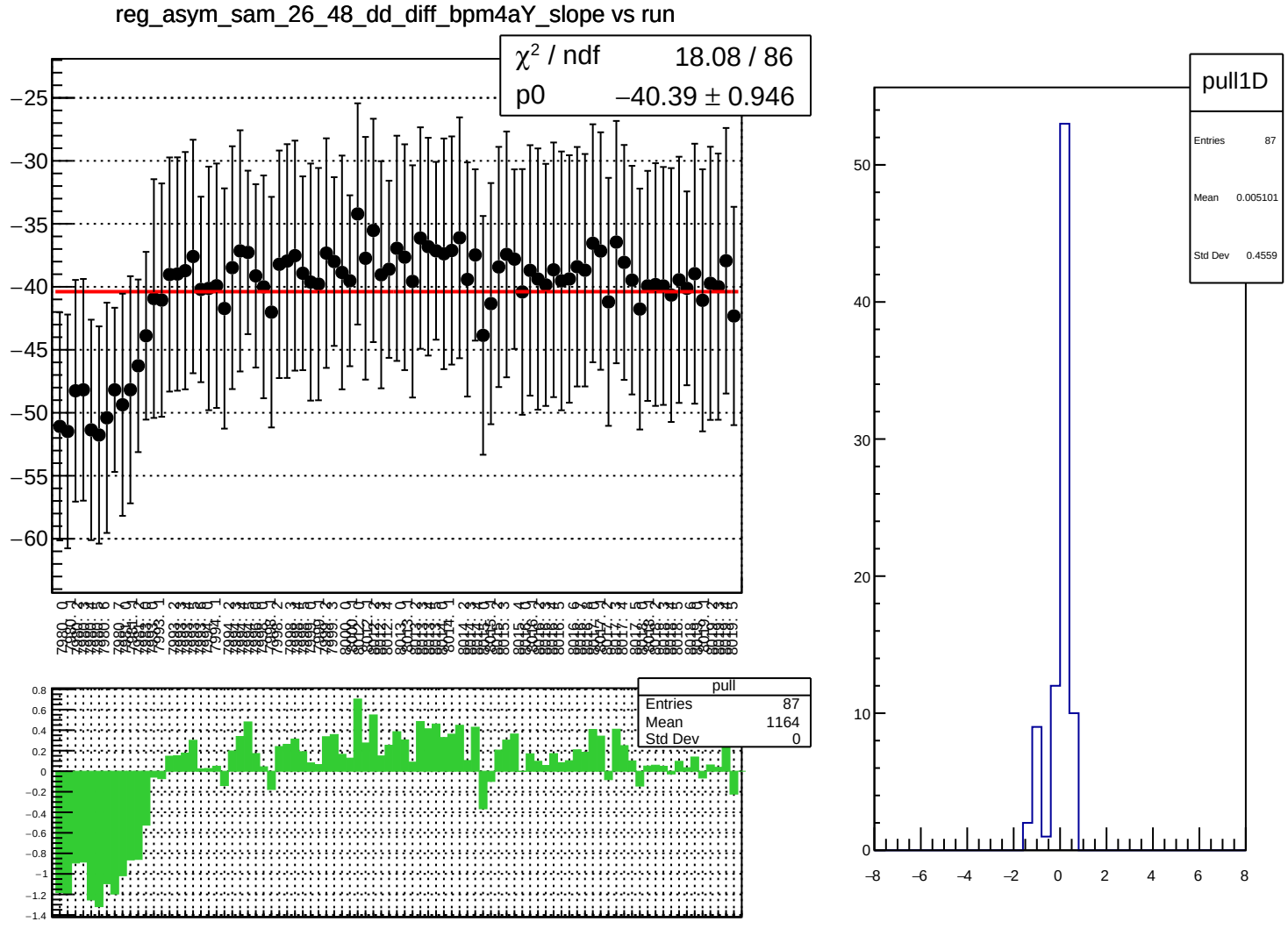

pull1D
Entries 87
Mean 0.007079
Std Dev 0.1504

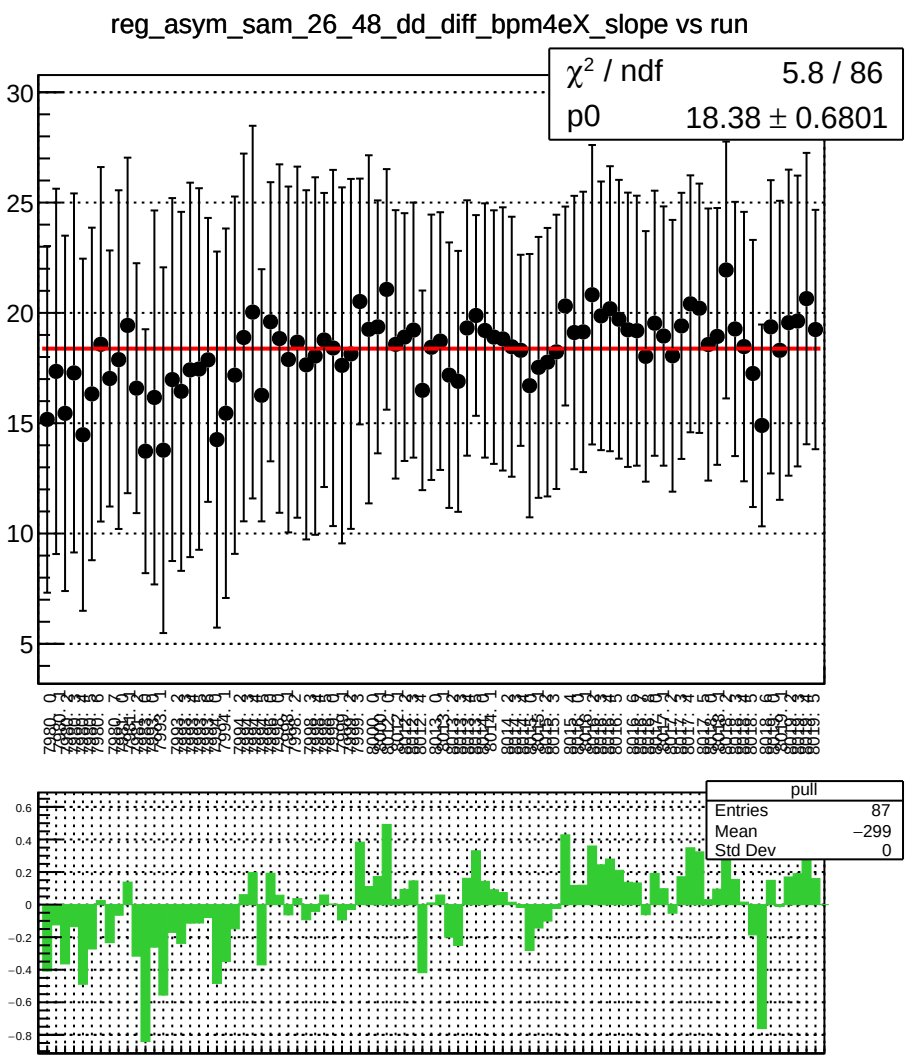

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.761 / 86
p0 −71.47 ± 2.476
−20
−40
−60
−80
−100
pull
Entries 87
Mean −65.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
pull1D
Entries 87
Mean 0.04237
Std Dev 0.2538
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

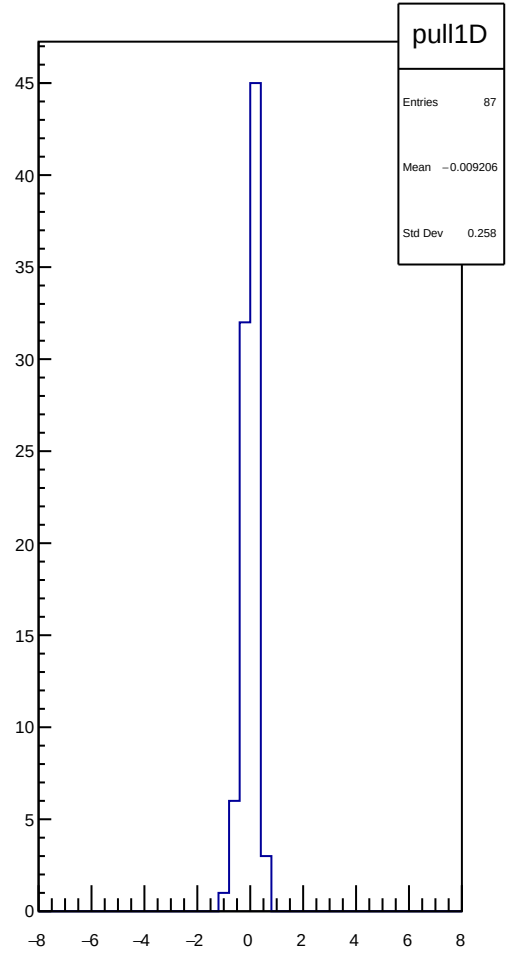

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9731 / 86
p0 22.05 ± 3.847
pull
Entries 87
Mean −78.62
Std Dev 0
pull1D
Entries 87
Mean −0.000891
Std Dev 0.1058

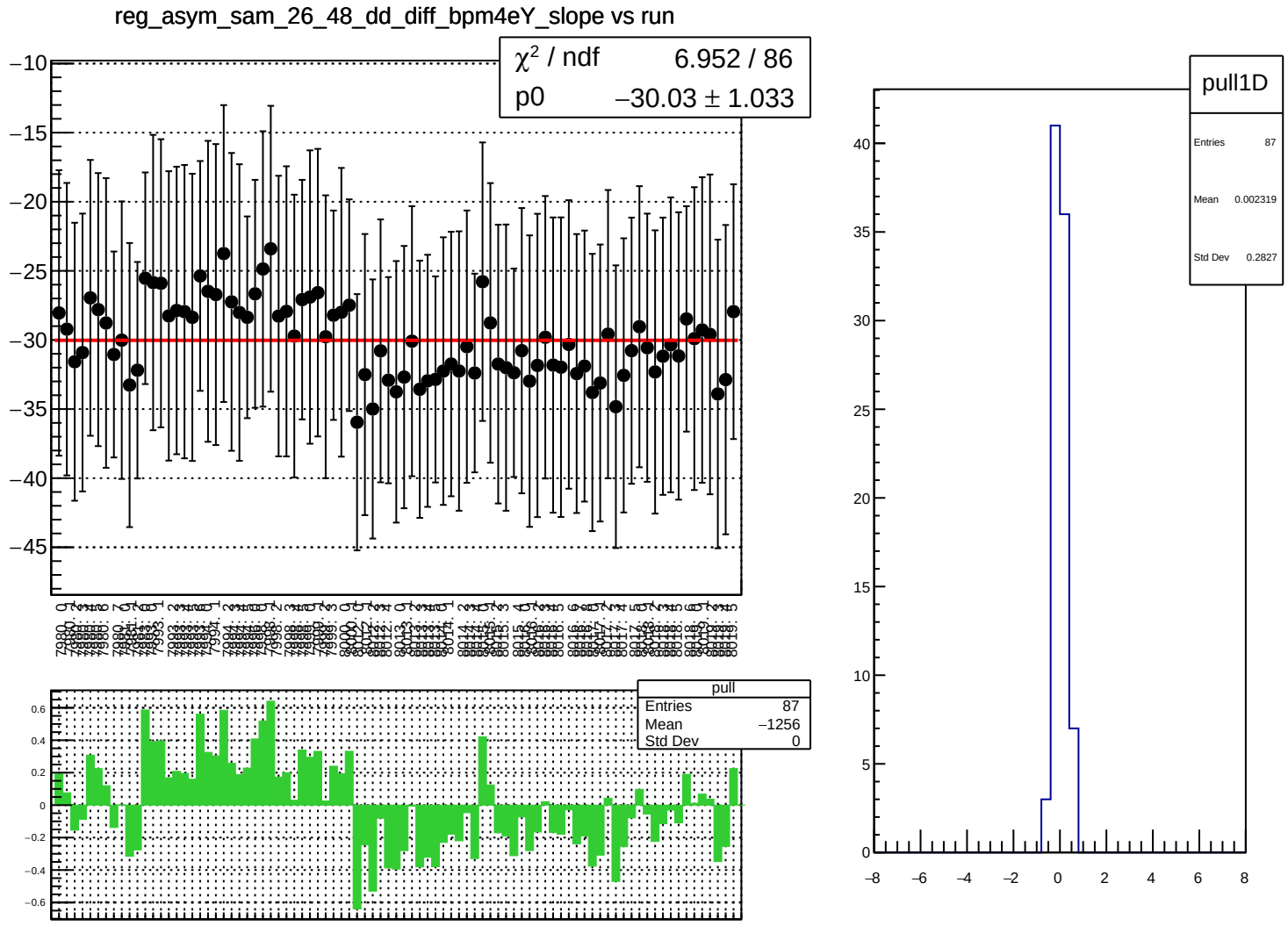

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 70.27 / 86
p0 0.5848 ± 0.1515
pull
Entries 87
Mean 121.2
Std Dev 0
pull1D
Entries 87
Mean 0.2335
Std Dev 0.8679

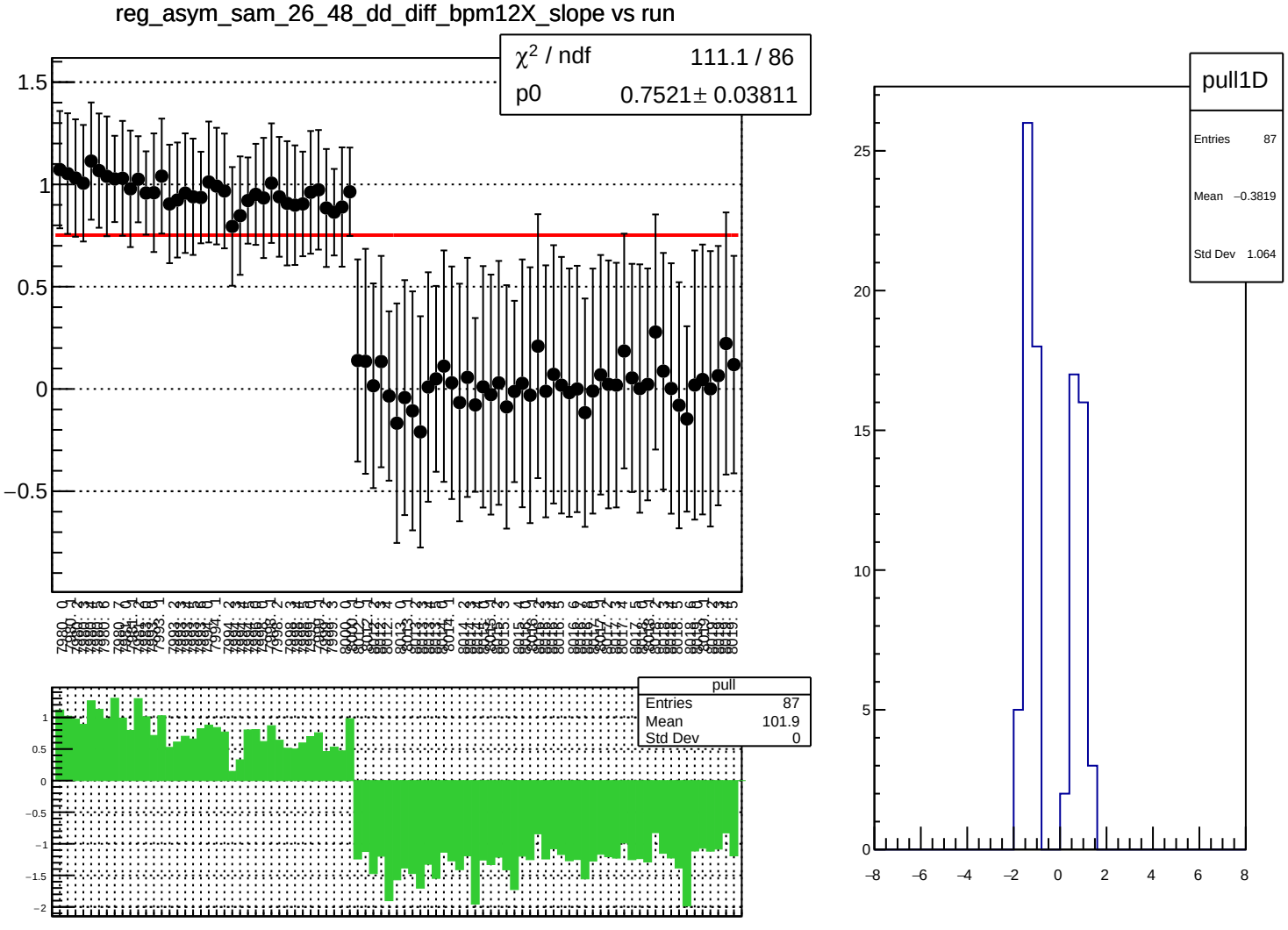

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.829 / 86
p0 3.7 ± 0.6711
pull
Entries 87
Mean −60.03
Std Dev 0
pull1D
Entries 87
Mean 0.02198
Std Dev 0.2579

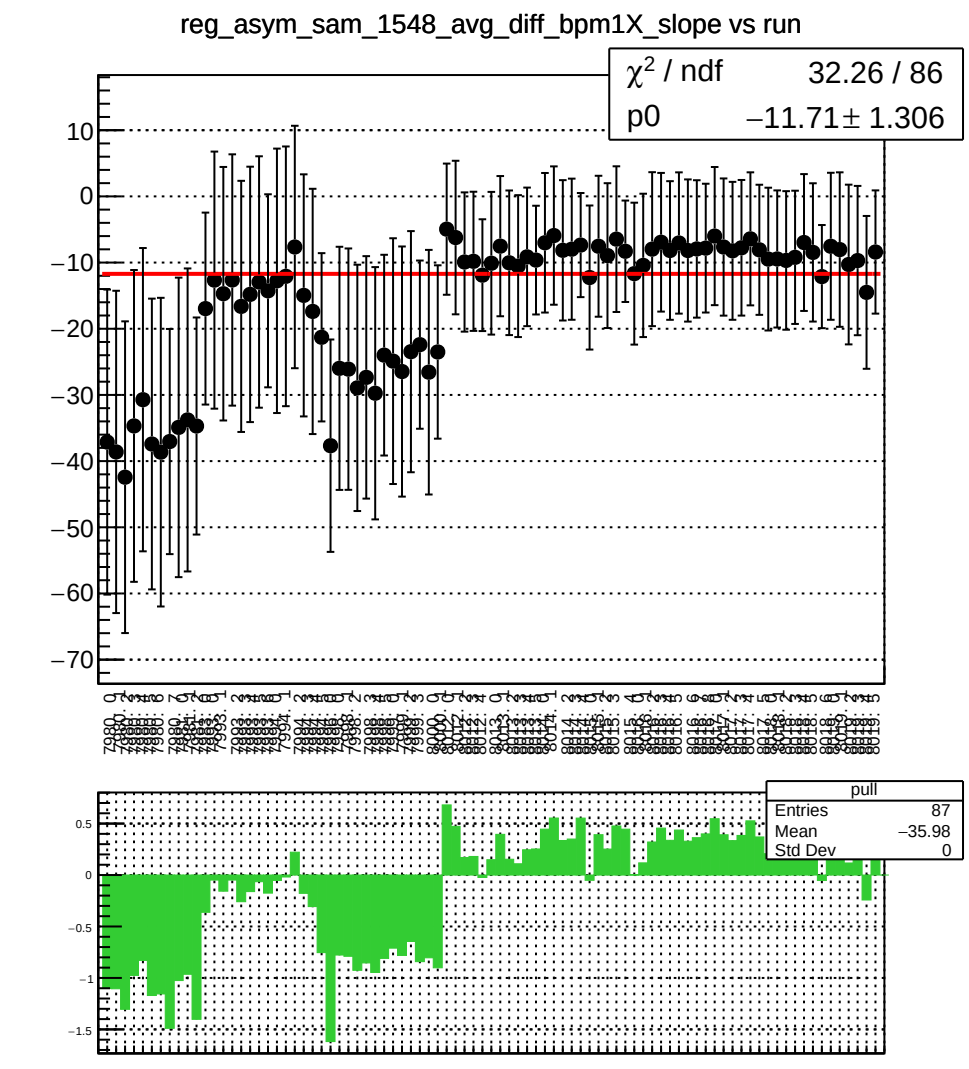

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.08 / 86
p0 −40.39 ± 0.946
pull
Entries 87
Mean 1164
Std Dev 0
pull1D
Entries 87
Mean 0.005101
Std Dev 0.4559

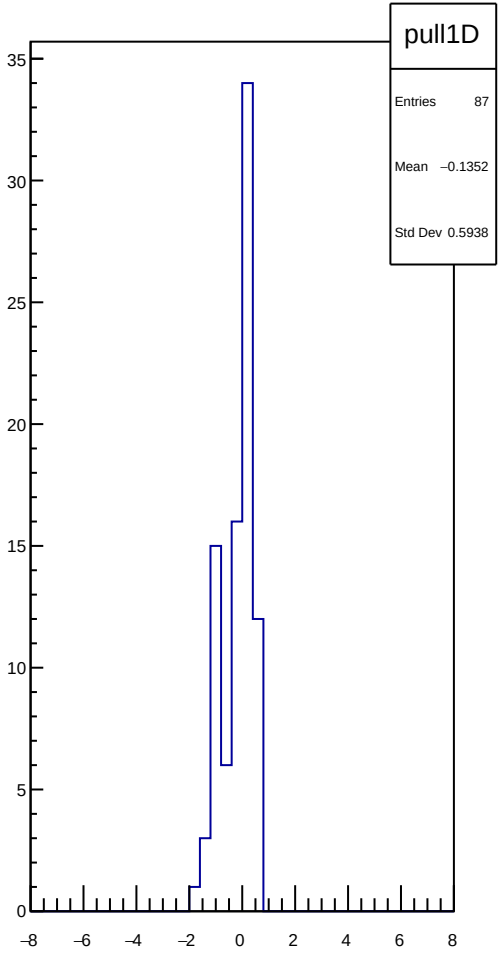

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.8 / 86
p0 18.38 ± 0.6801
pull
Entries 87
Mean −299
Std Dev 0

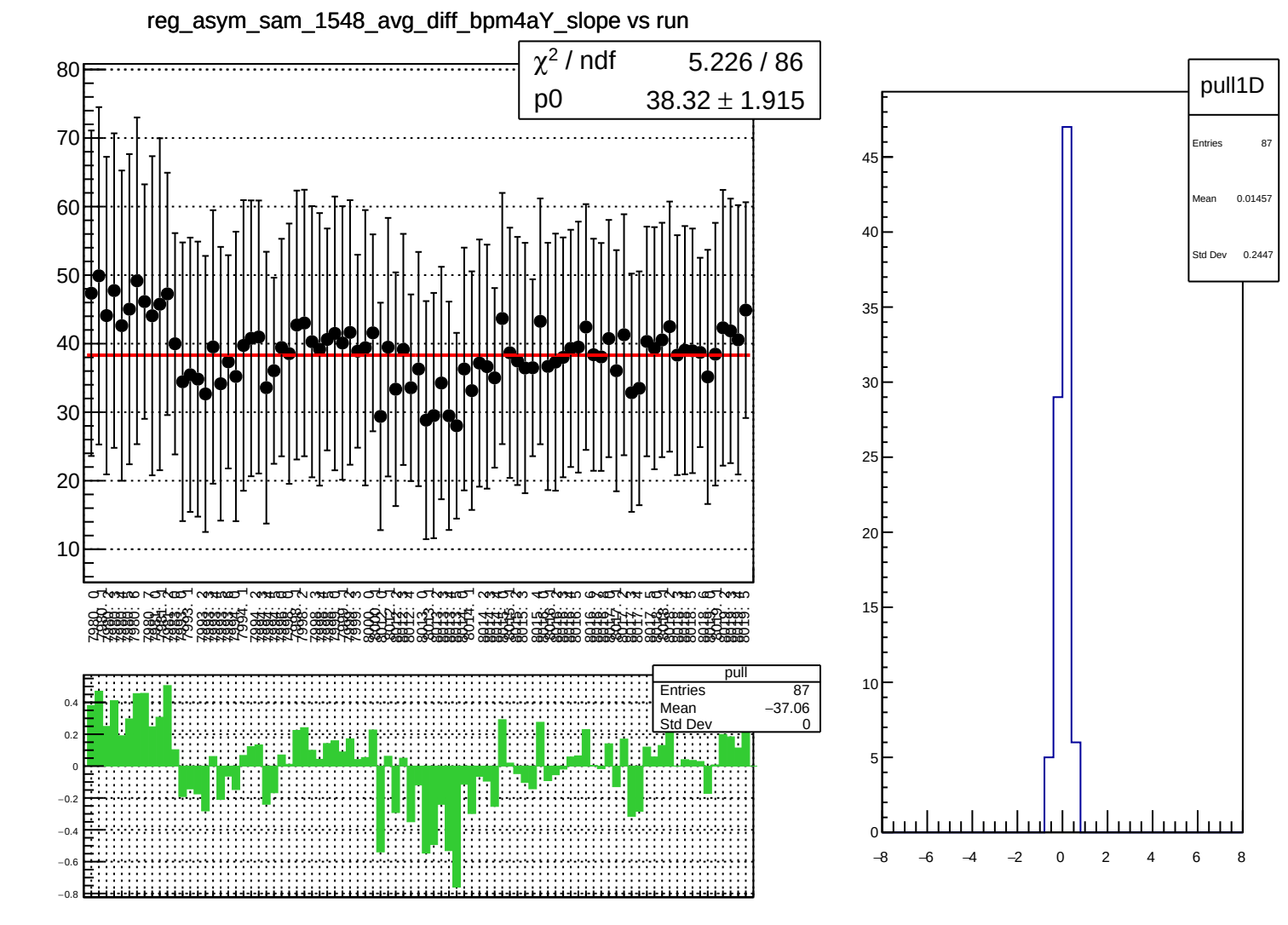

pull1D
Entries 87
Mean −0.009206
Std Dev 0.258

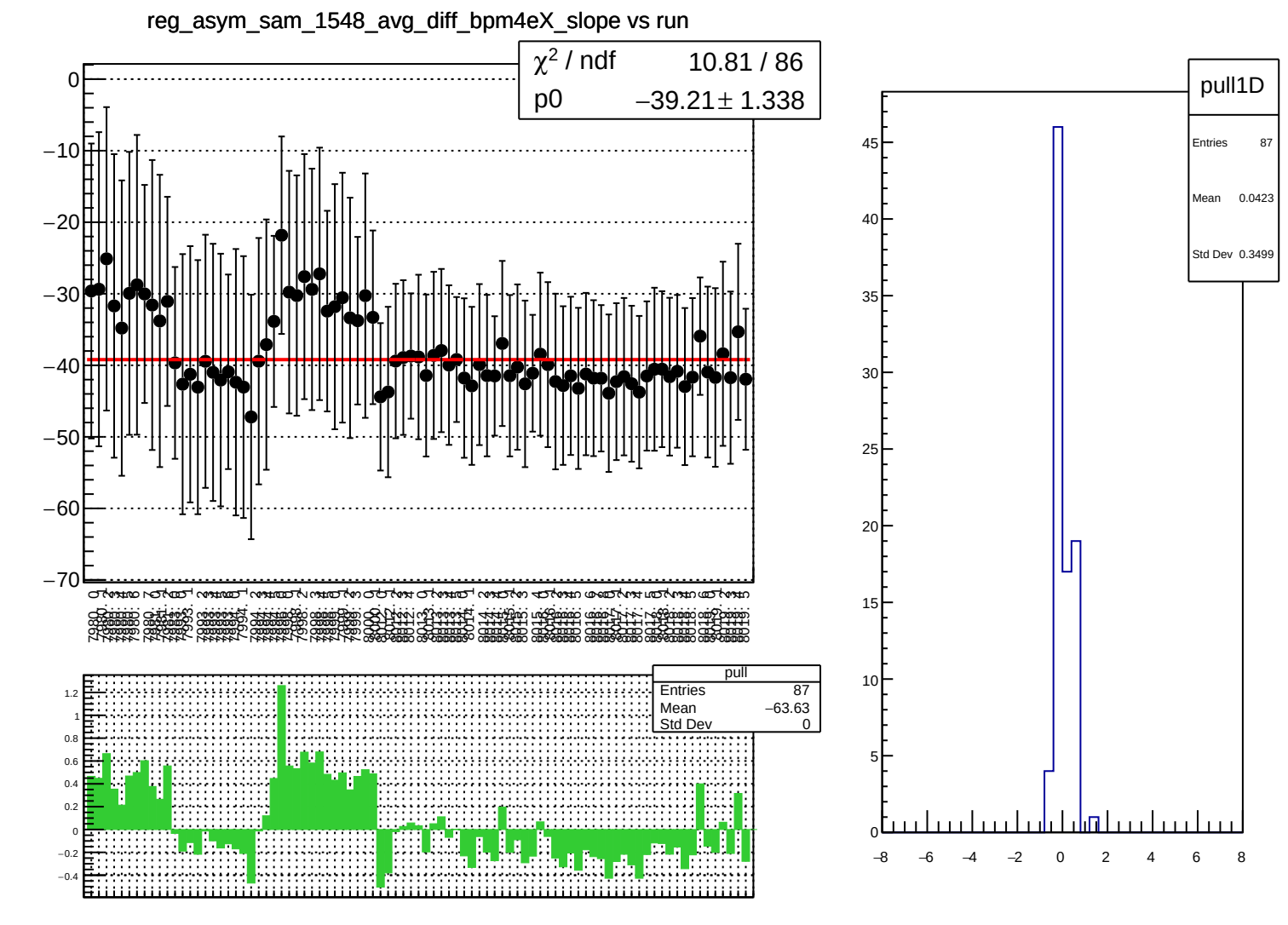

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.952 / 86
p0 −30.03 ± 1.033
pull
Entries 87
Mean −1256
Std Dev 0
pull1D
Entries 87
Mean 0.002319
Std Dev 0.2827

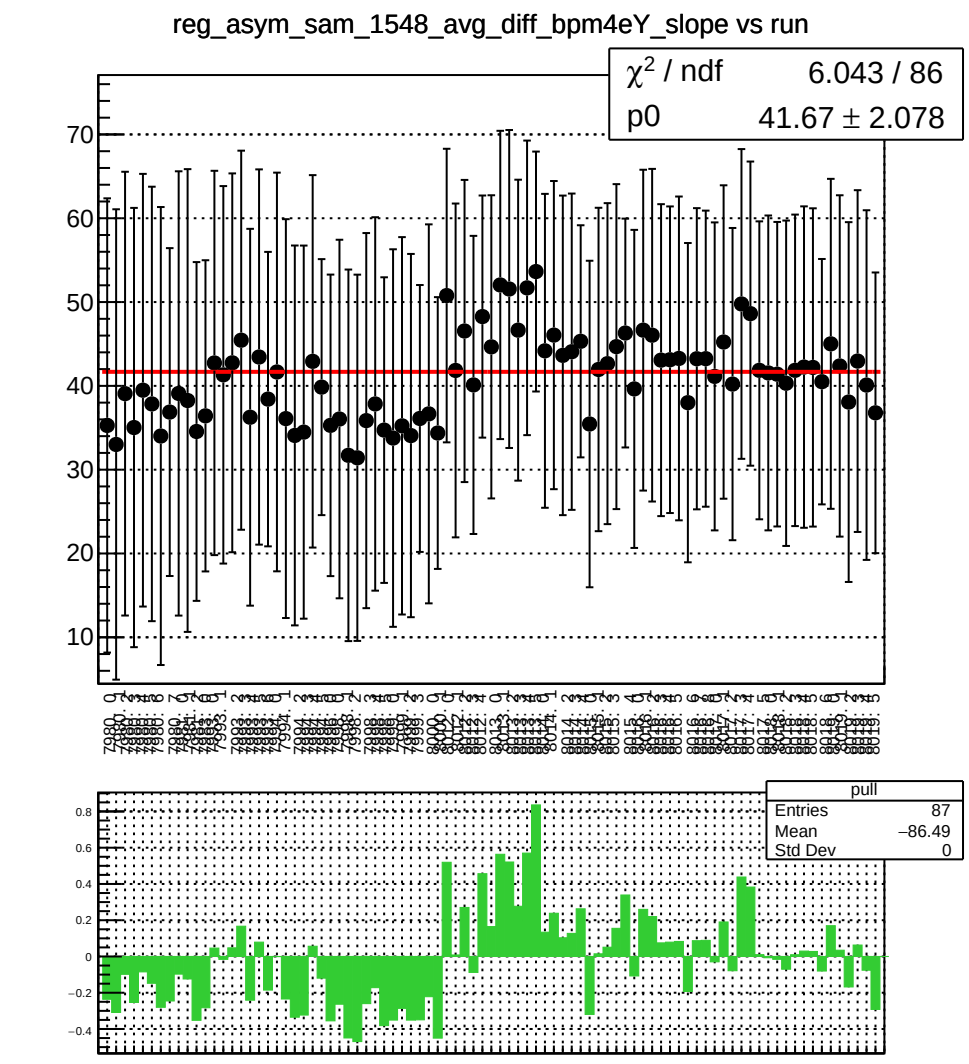

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 111.1 / 86
p0 0.7521± 0.03811
pull
Entries 87
Mean 101.9
Std Dev 0
pull1D
Entries 87
Mean −0.3819
Std Dev 1.064

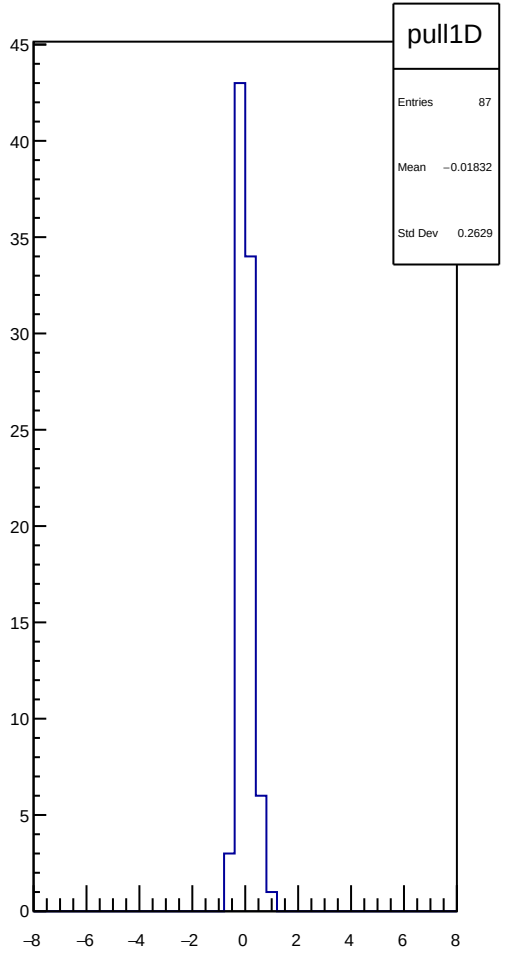

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 32.26 / 86
p0 −11.71± 1.306
pull
Entries 87
Mean −35.98
Std Dev 0

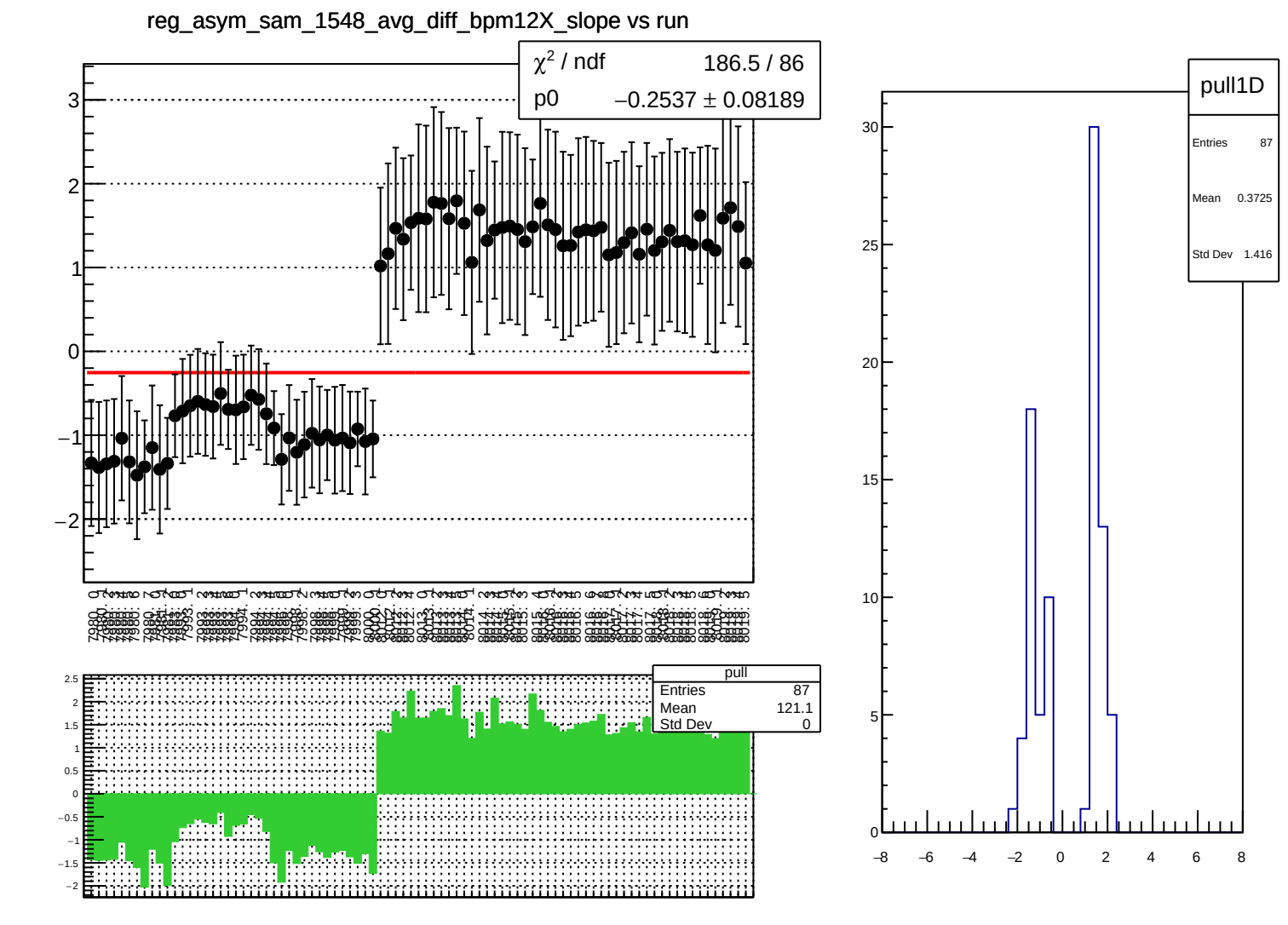

pull1D
Entries 87
Mean −0.1352
Std Dev 0.5938

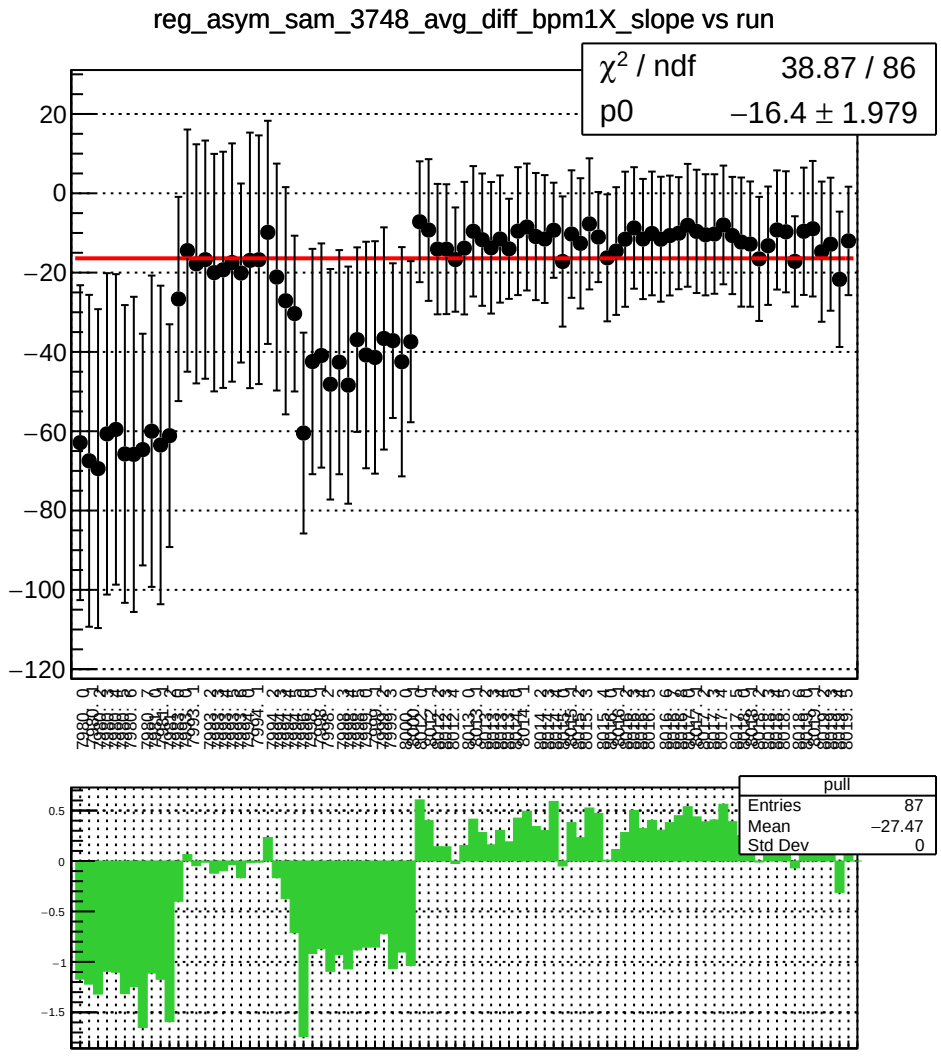

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.226 / 86
p0 38.32 ± 1.915
pull
Entries 87
Mean −37.06
Std Dev 0
pull1D
Entries 87
Mean 0.01457
Std Dev 0.2447

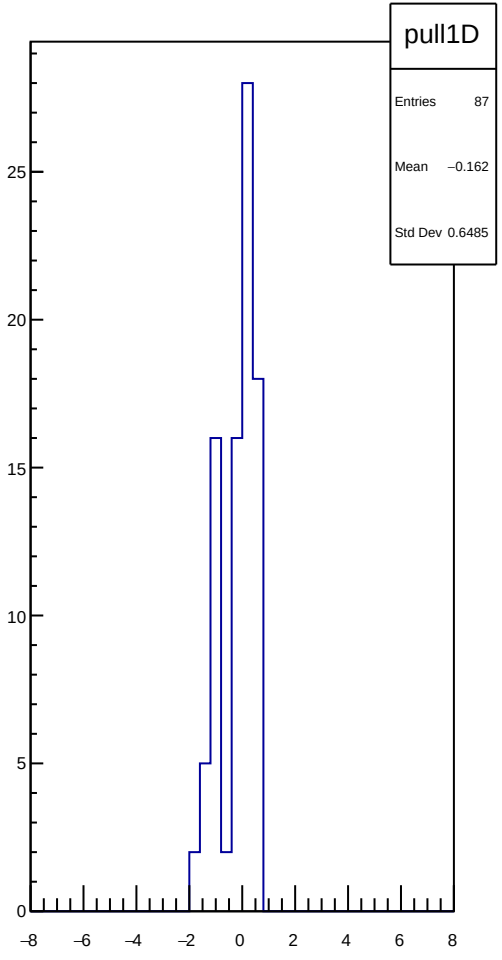

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.81 / 86
p0 −39.21± 1.338
pull
Entries 87
Mean −63.63
Std Dev 0
pull1D
Entries 87
Mean 0.0423
Std Dev 0.3499

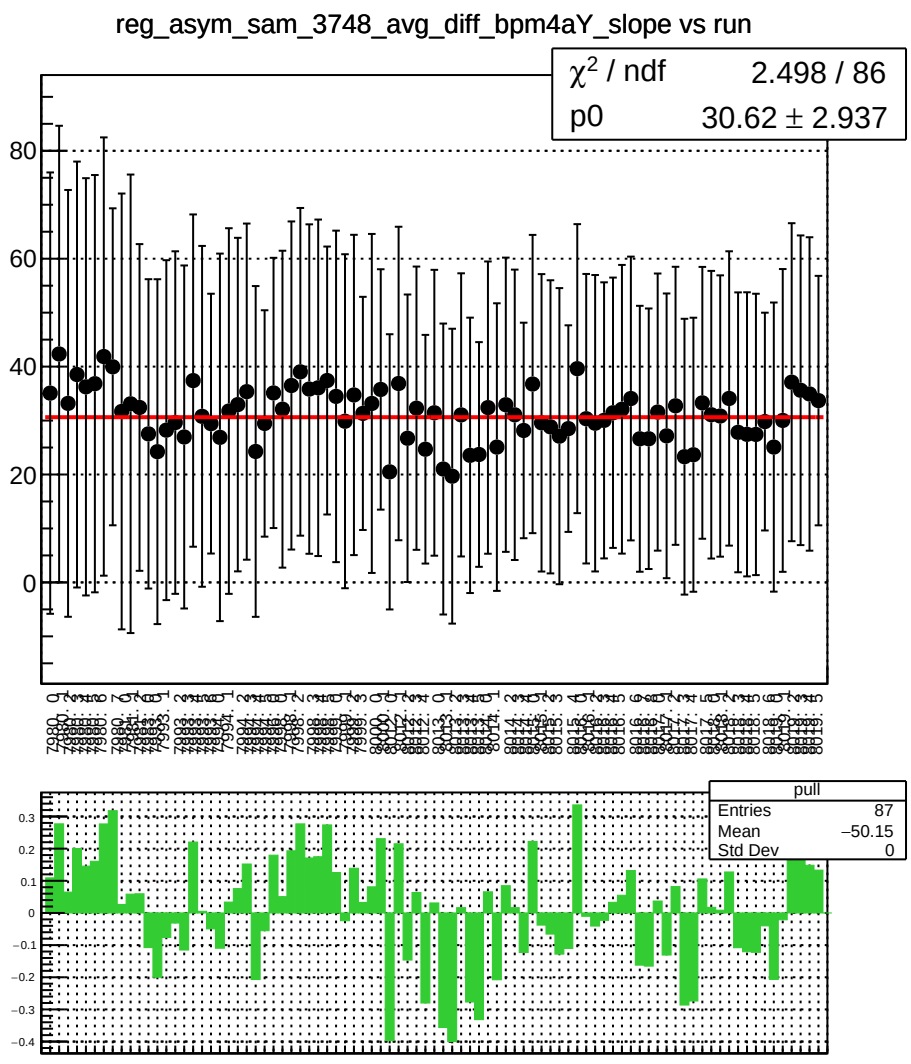

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.043 / 86
p0 41.67 ± 2.078
pull
Entries 87
Mean −86.49
Std Dev 0

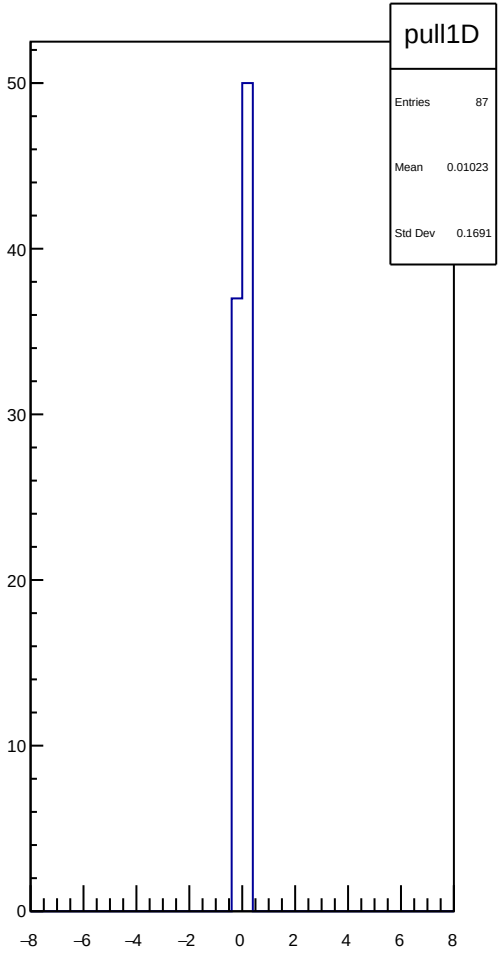

pull1D
Entries 87
Mean −0.01832
Std Dev 0.2629

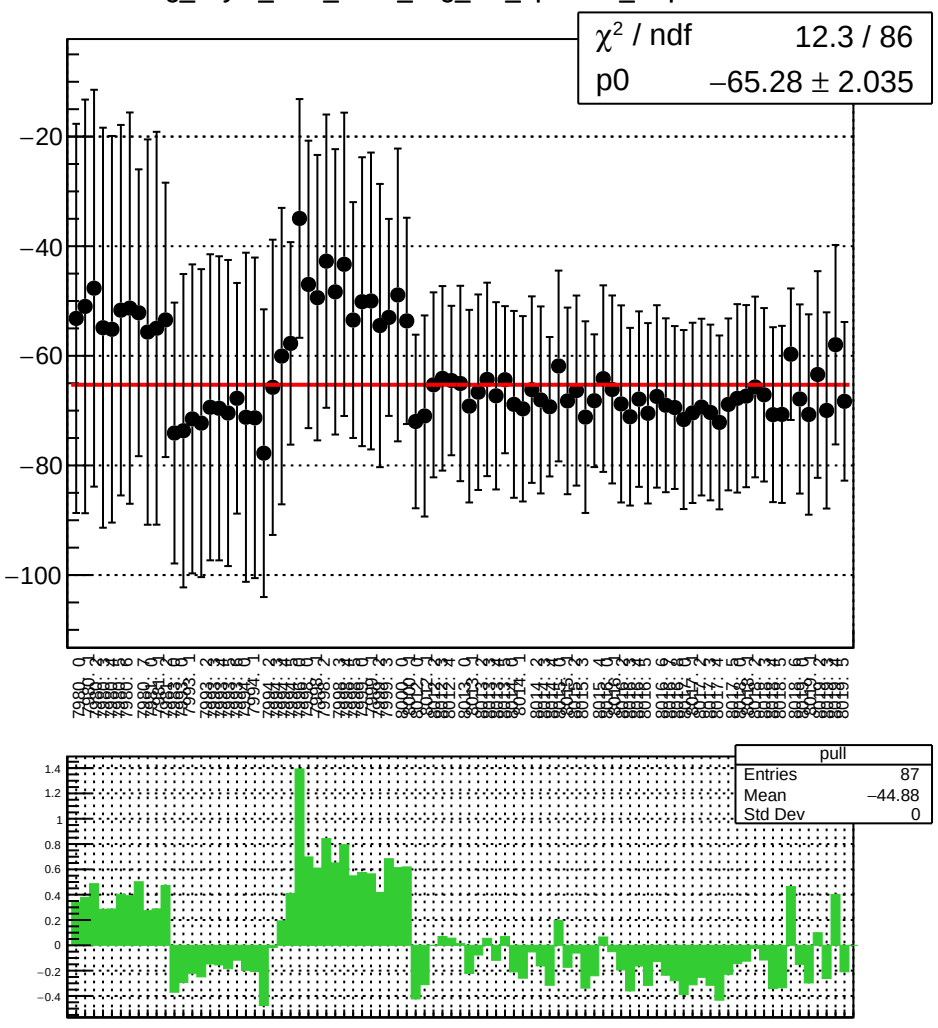

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 186.5 / 86
p0 −0.2537 ± 0.08189
pull
Entries 87
Mean 121.1
Std Dev 0
pull1D
Entries 87
Mean 0.3725
Std Dev 1.416

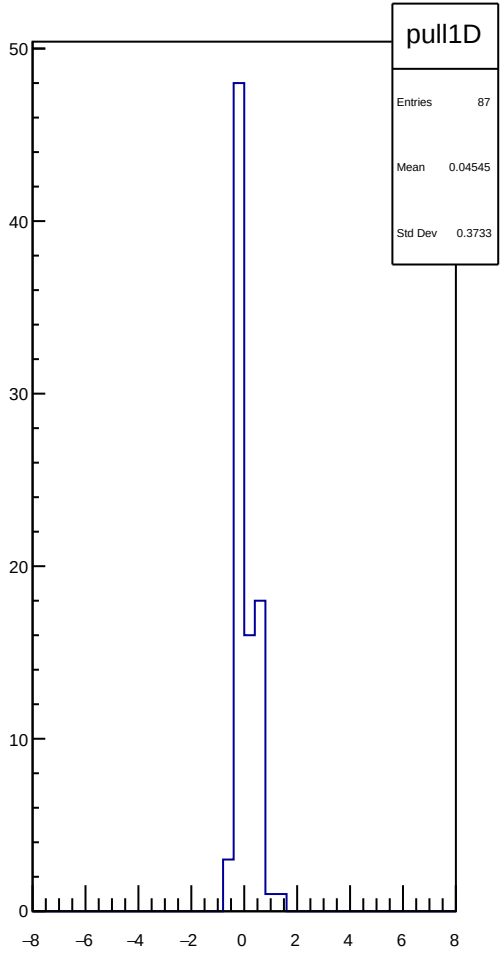

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 38.87 / 86
p0 −16.4 ± 1.979
pull
Entries 87
Mean −27.47
Std Dev 0

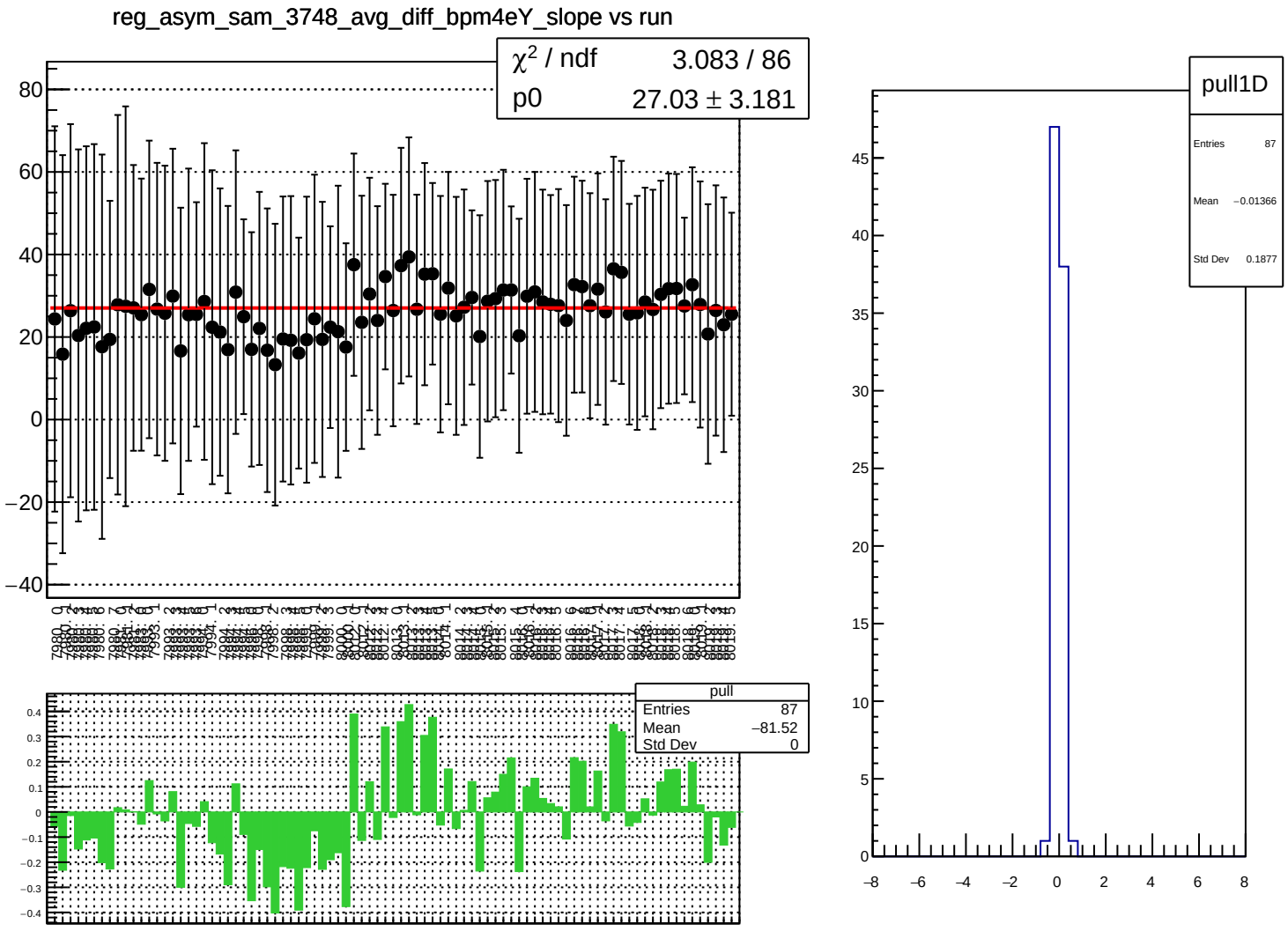

pull1D
Entries 87
Mean −0.162
Std Dev 0.6485

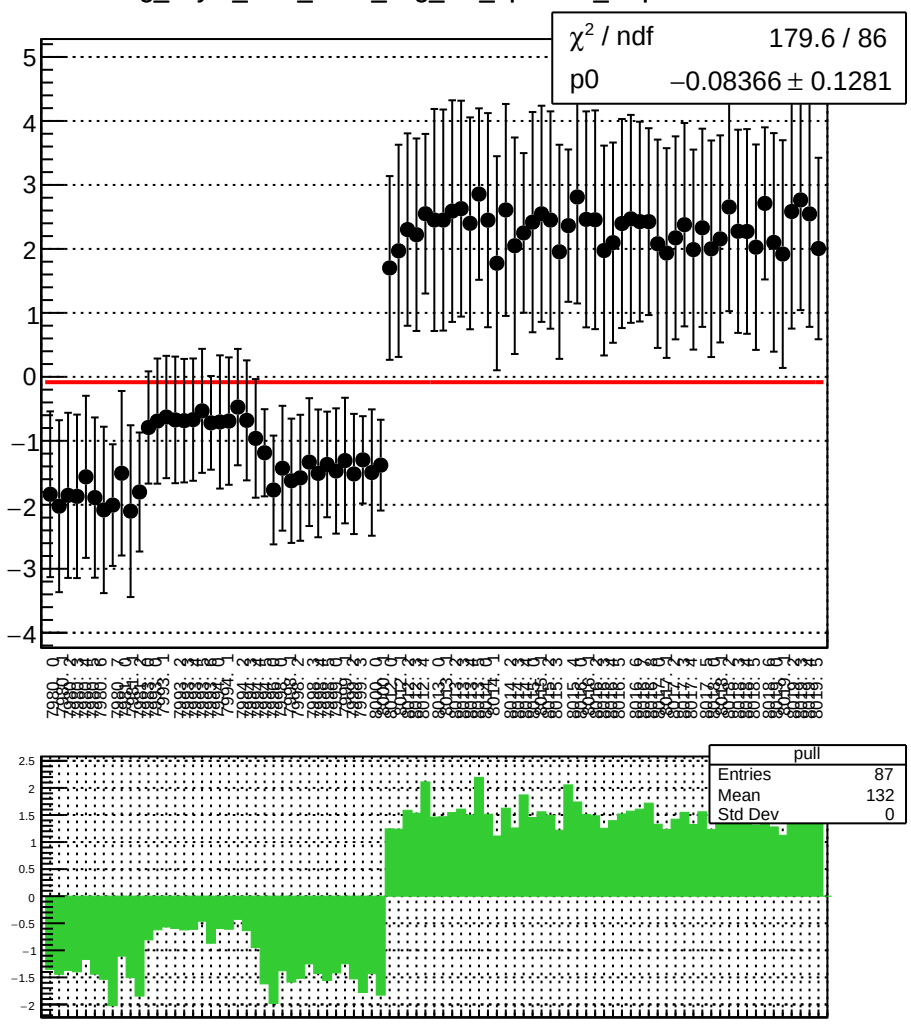

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.498 / 86
p0 30.62 ± 2.937
pull
Entries 87
Mean −50.15
Std Dev 0

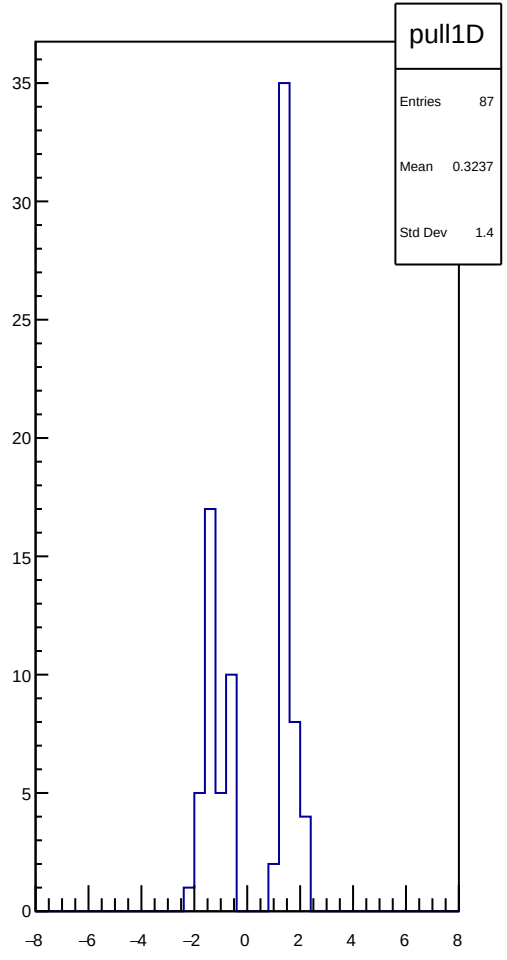

pull1D
Entries 87
Mean 0.01023
Std Dev 0.1691

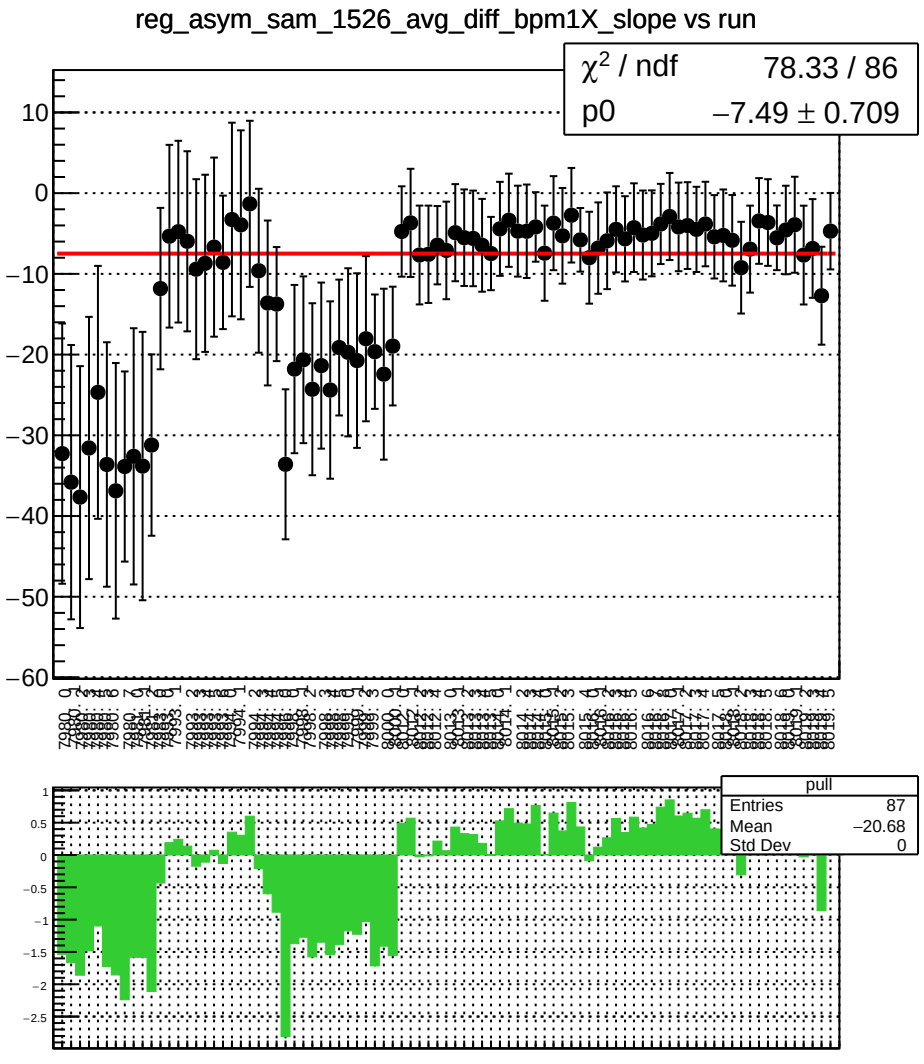

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.3 / 86
p0 −65.28 ± 2.035
−20
−40
−60
−80
−100
pull
Entries 87
Mean −44.88
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

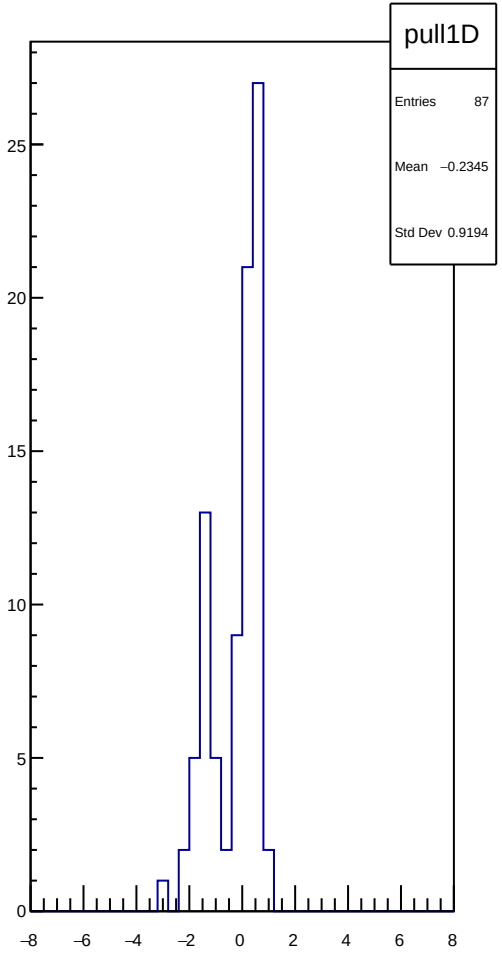

pull1D
Entries 87
Mean 0.04545
Std Dev 0.3733
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

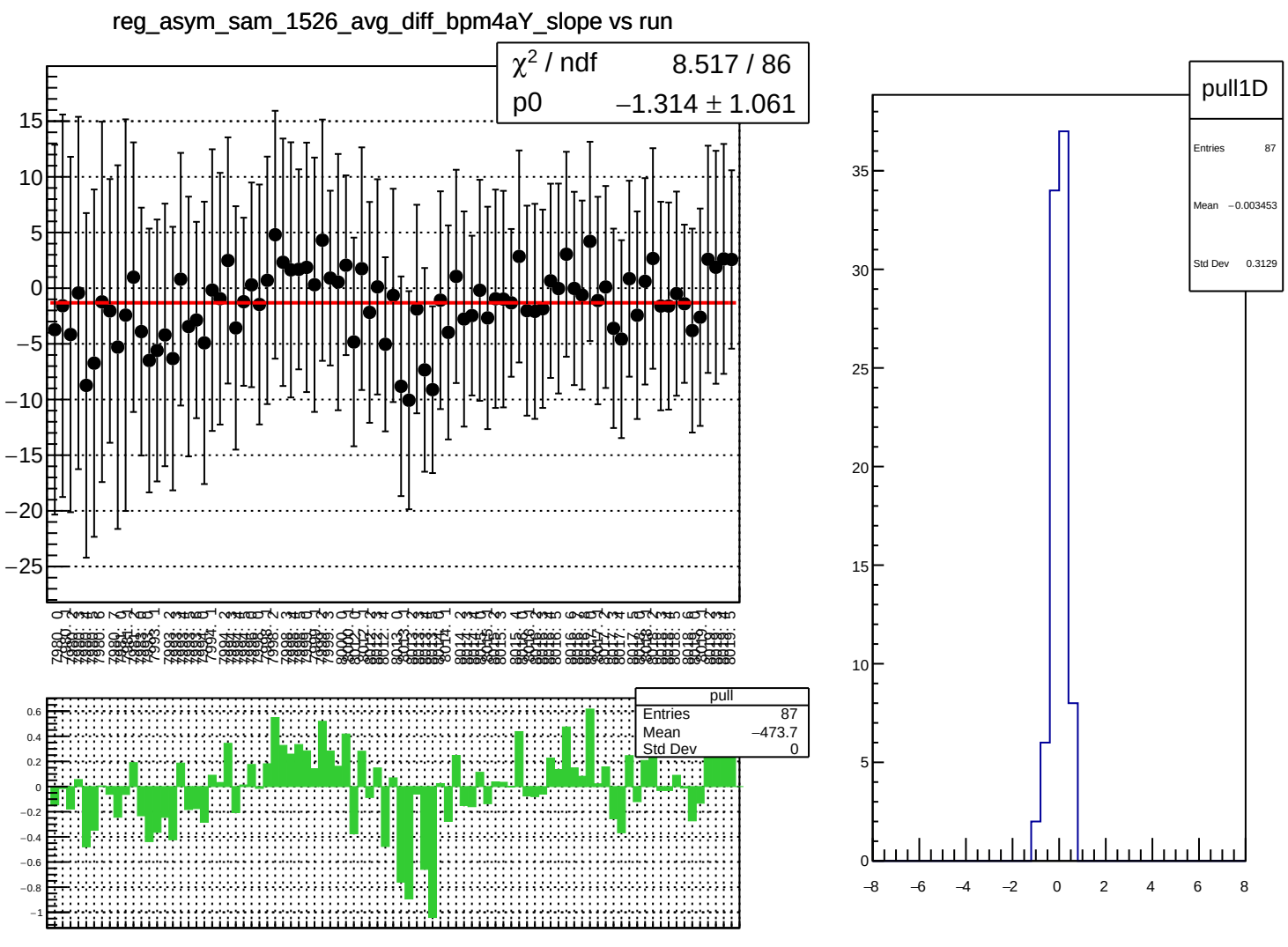

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.083 / 86
p0 27.03 ± 3.181
pull
Entries 87
Mean −81.52
Std Dev 0
pull1D
Entries 87
Mean −0.01366
Std Dev 0.1877

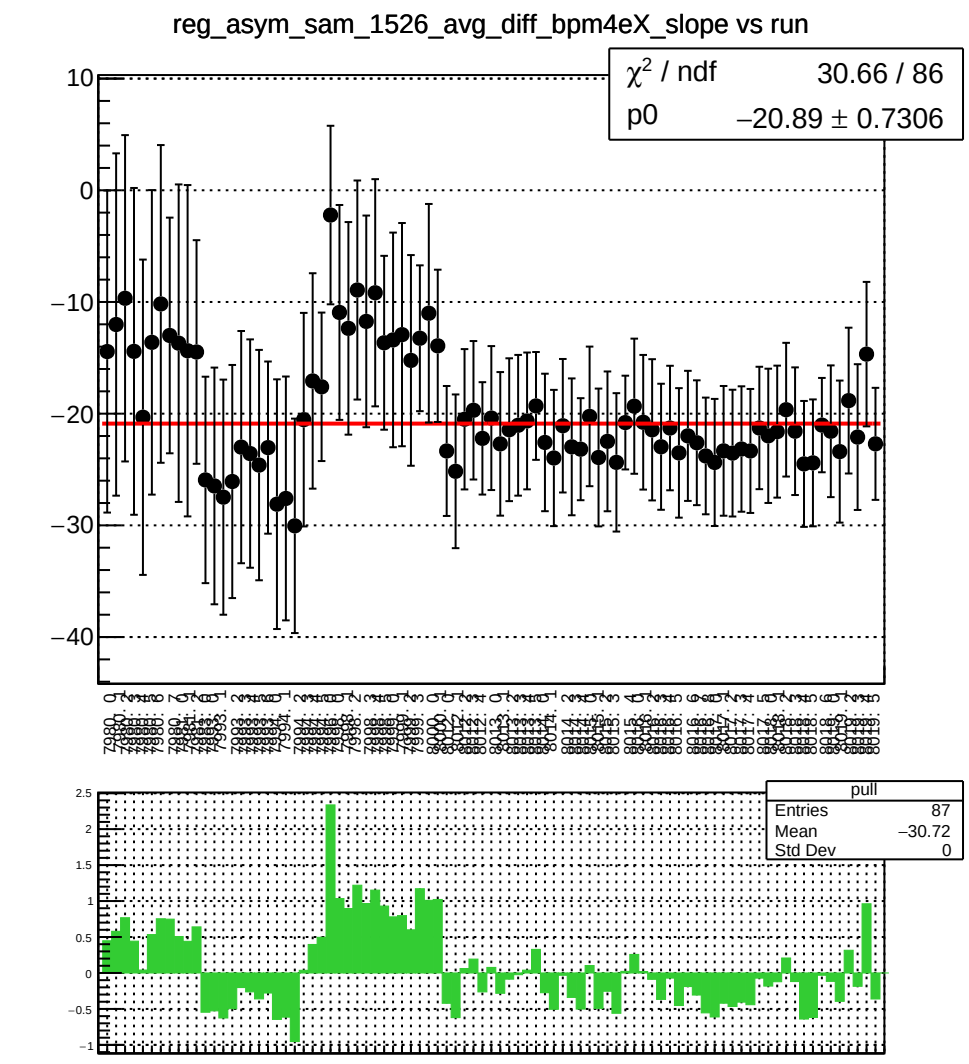

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 179.6 / 86
p0 −0.08366 ± 0.1281
pull
Entries 87
Mean 132
Std Dev 0

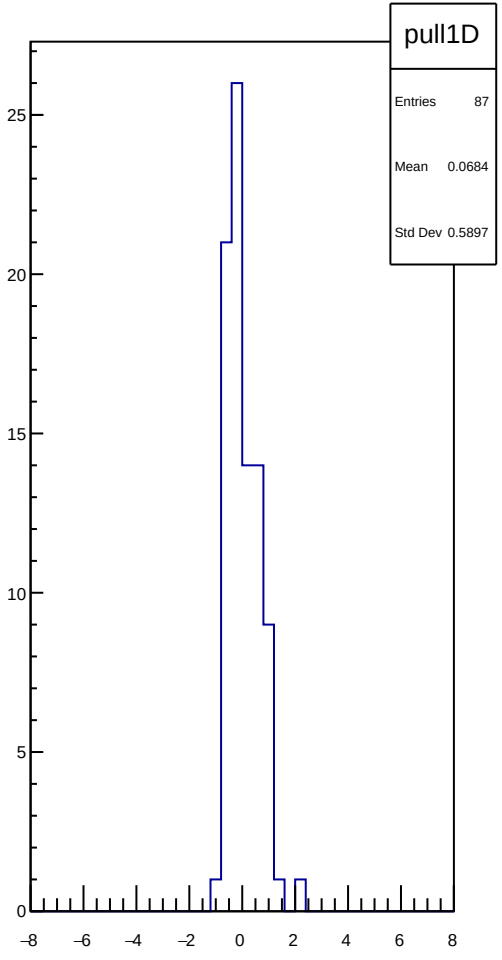

pull1D
Entries 87
Mean 0.3237
Std Dev 1.4

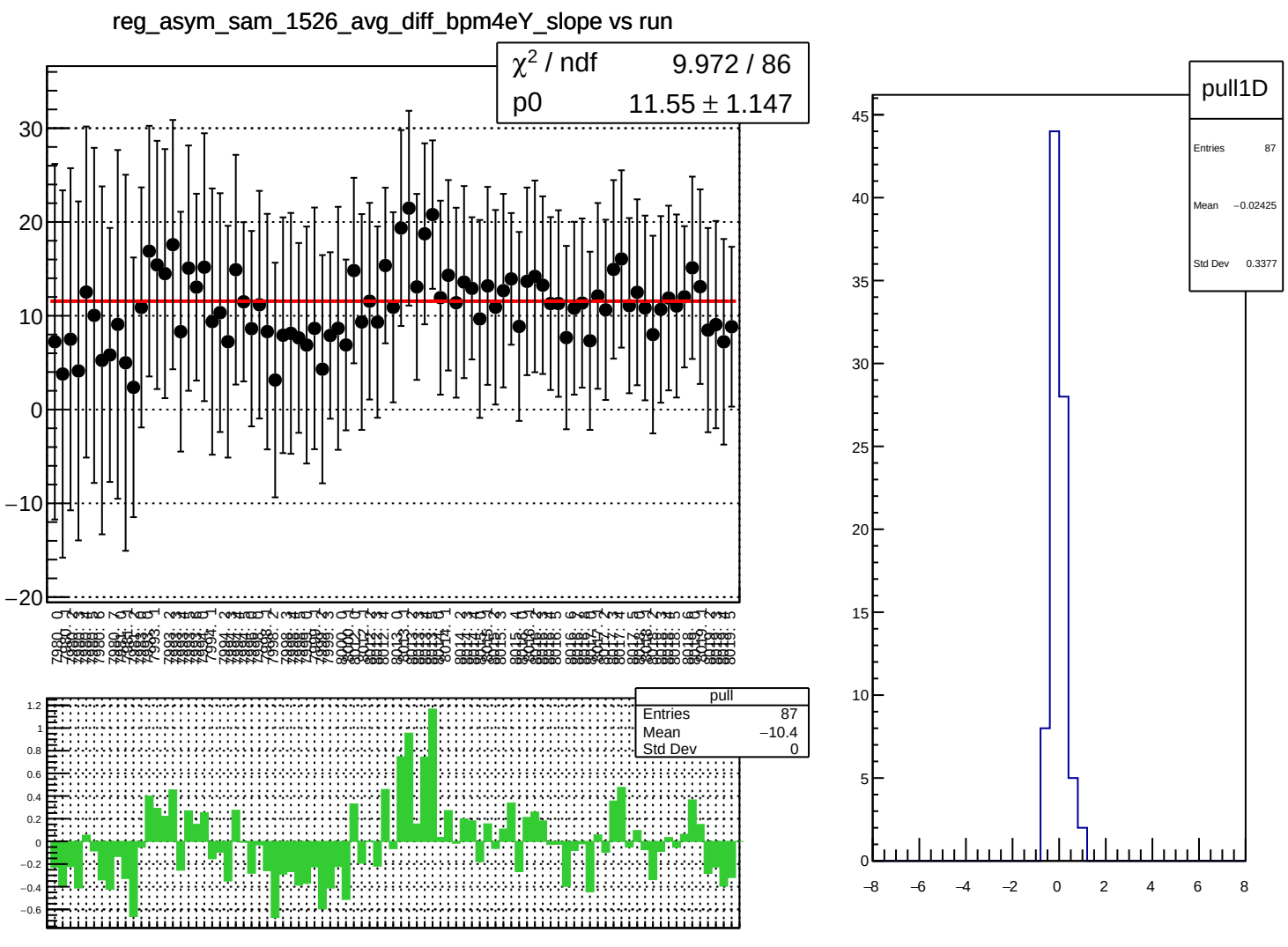

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 78.33 / 86
p0 −7.49 ± 0.709
pull
Entries 87
Mean −20.68
Std Dev 0

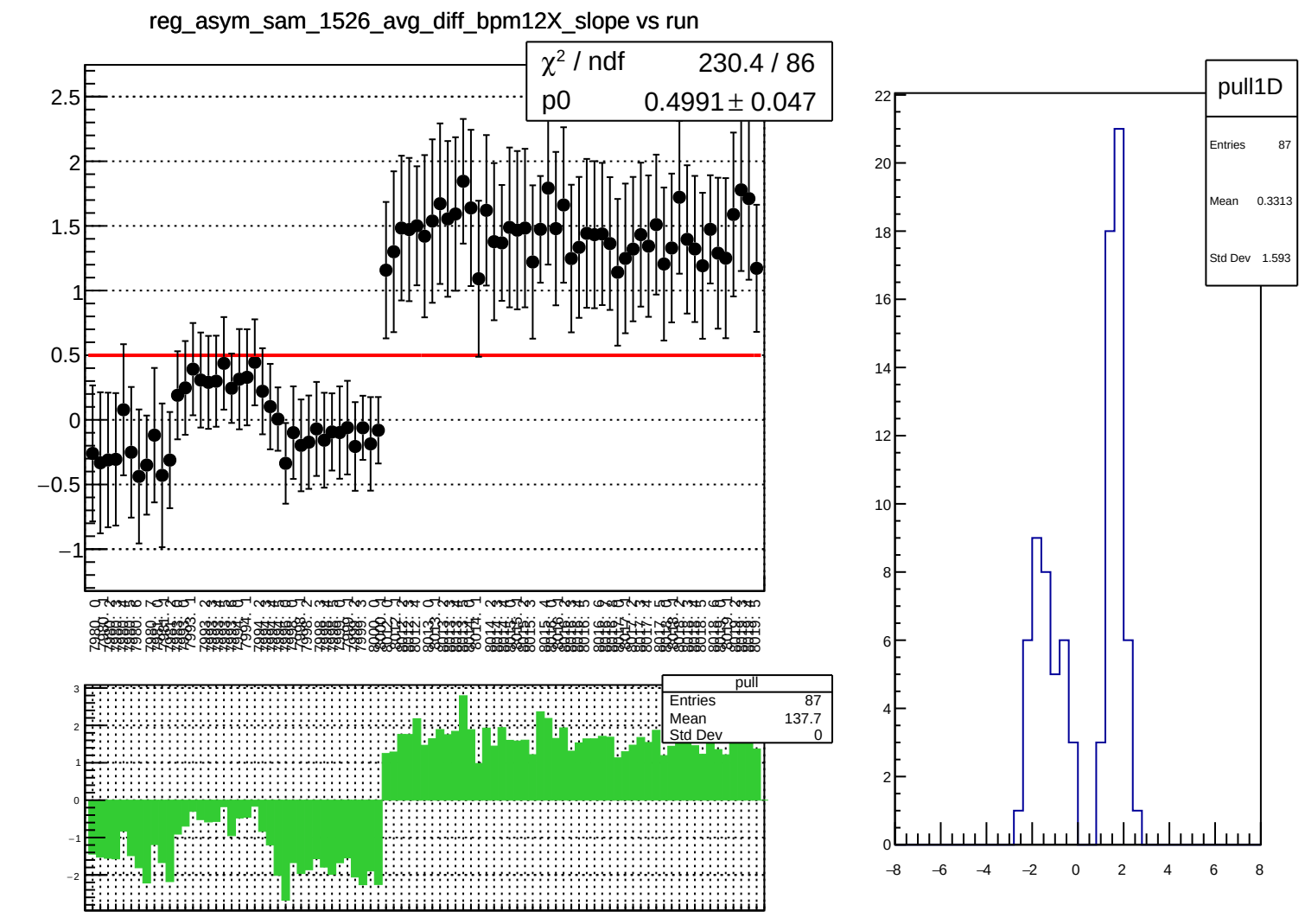

pull1D
Entries 87
Mean −0.2345
Std Dev 0.9194

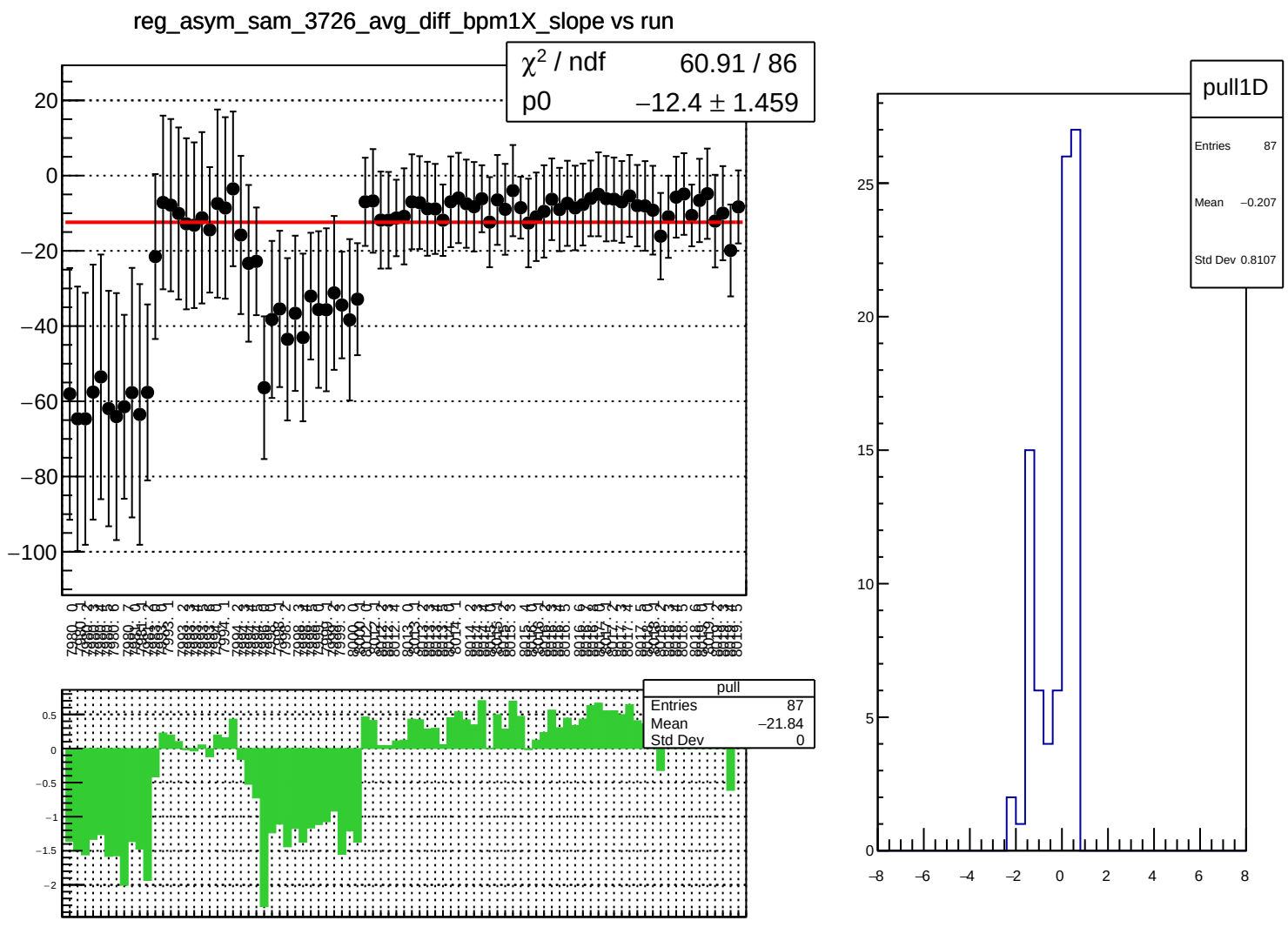

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.517 / 86
p0 −1.314 ± 1.061
pull
Entries 87
Mean −473.7
Std Dev 0
pull1D
Entries 87
Mean −0.003453
Std Dev 0.3129

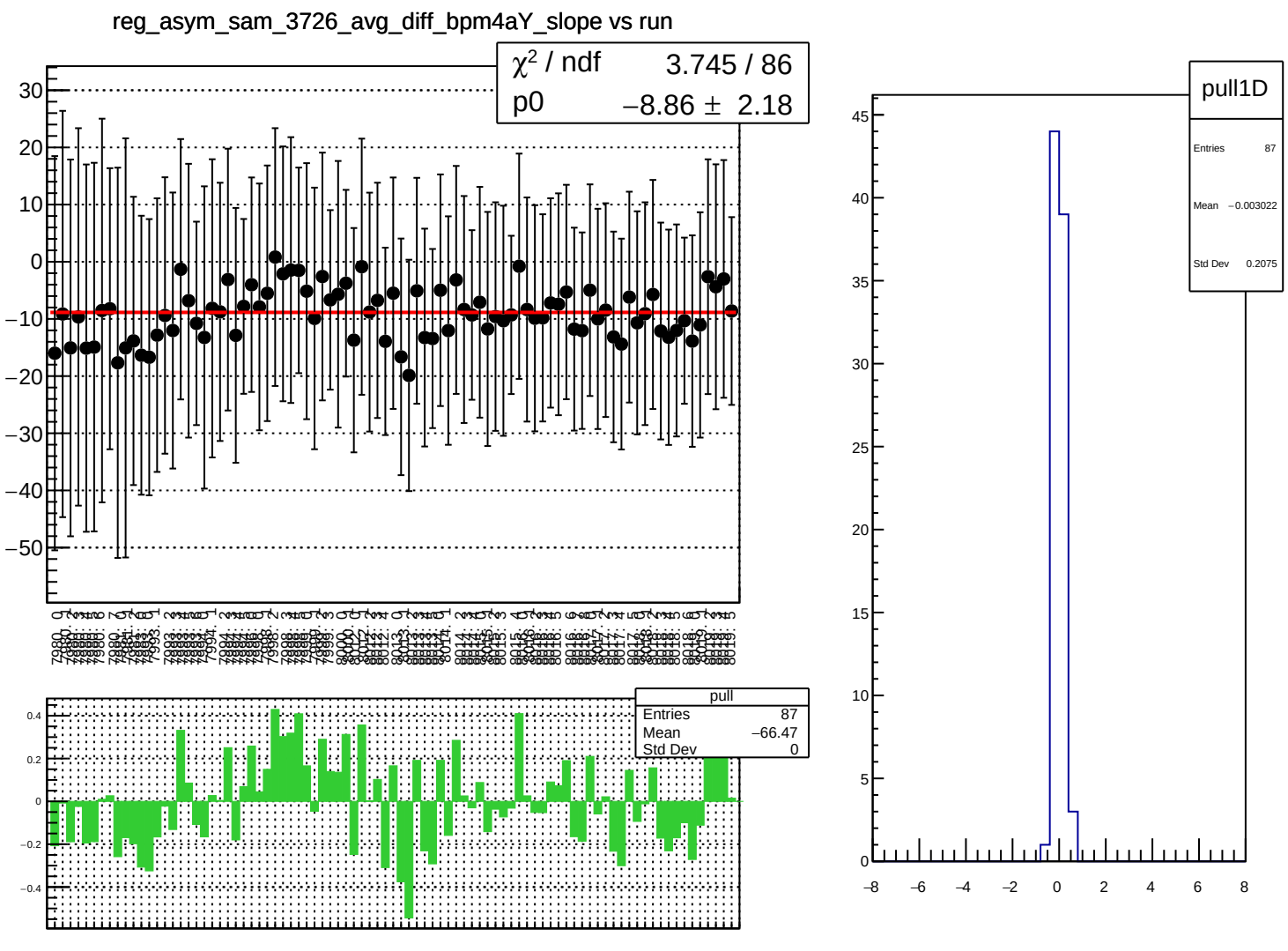

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.66 / 86
p0 −20.89 ± 0.7306
pull
Entries 87
Mean −30.72
Std Dev 0

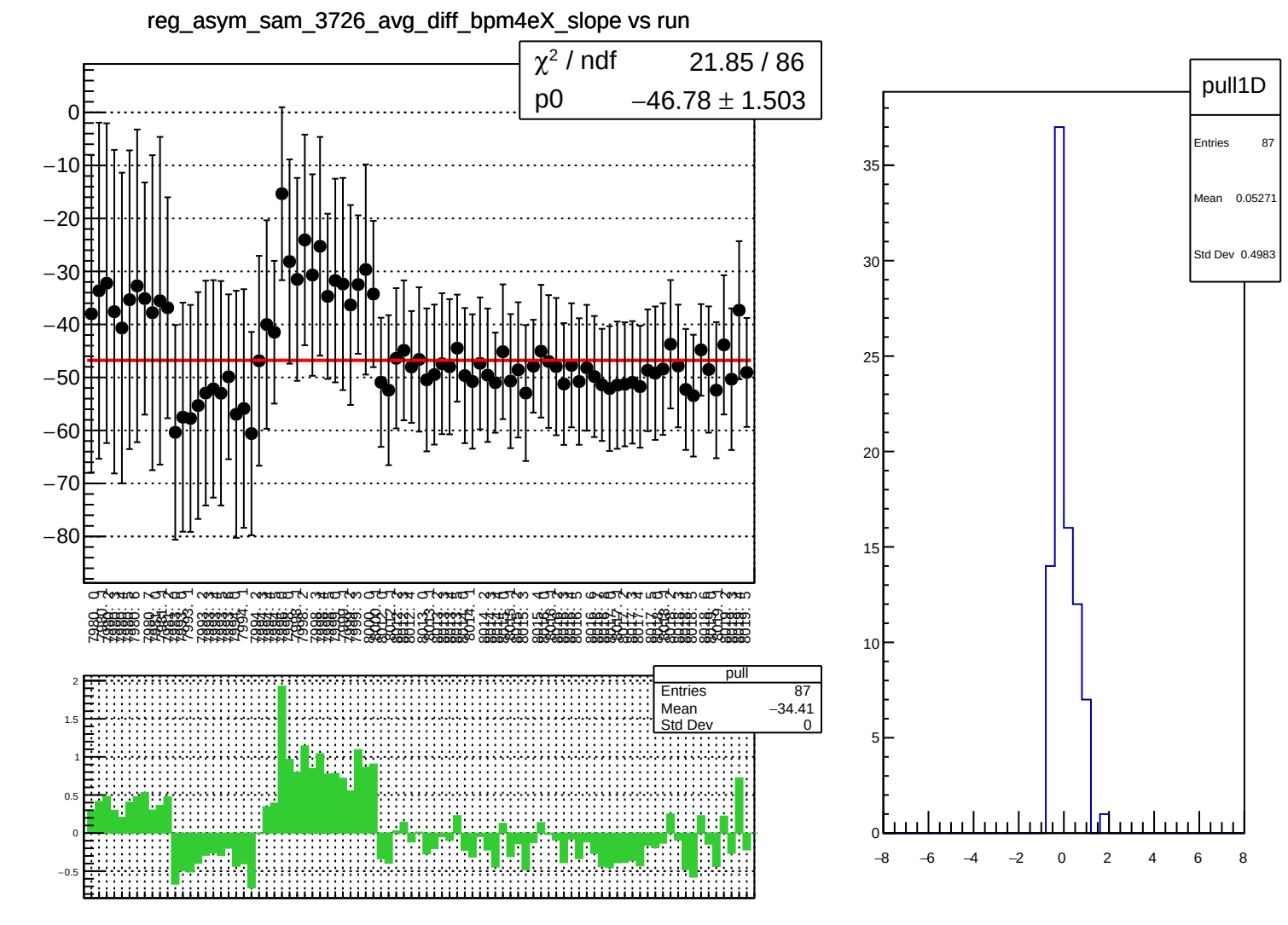

pull1D
Entries 87
Mean 0.0684
Std Dev 0.5897

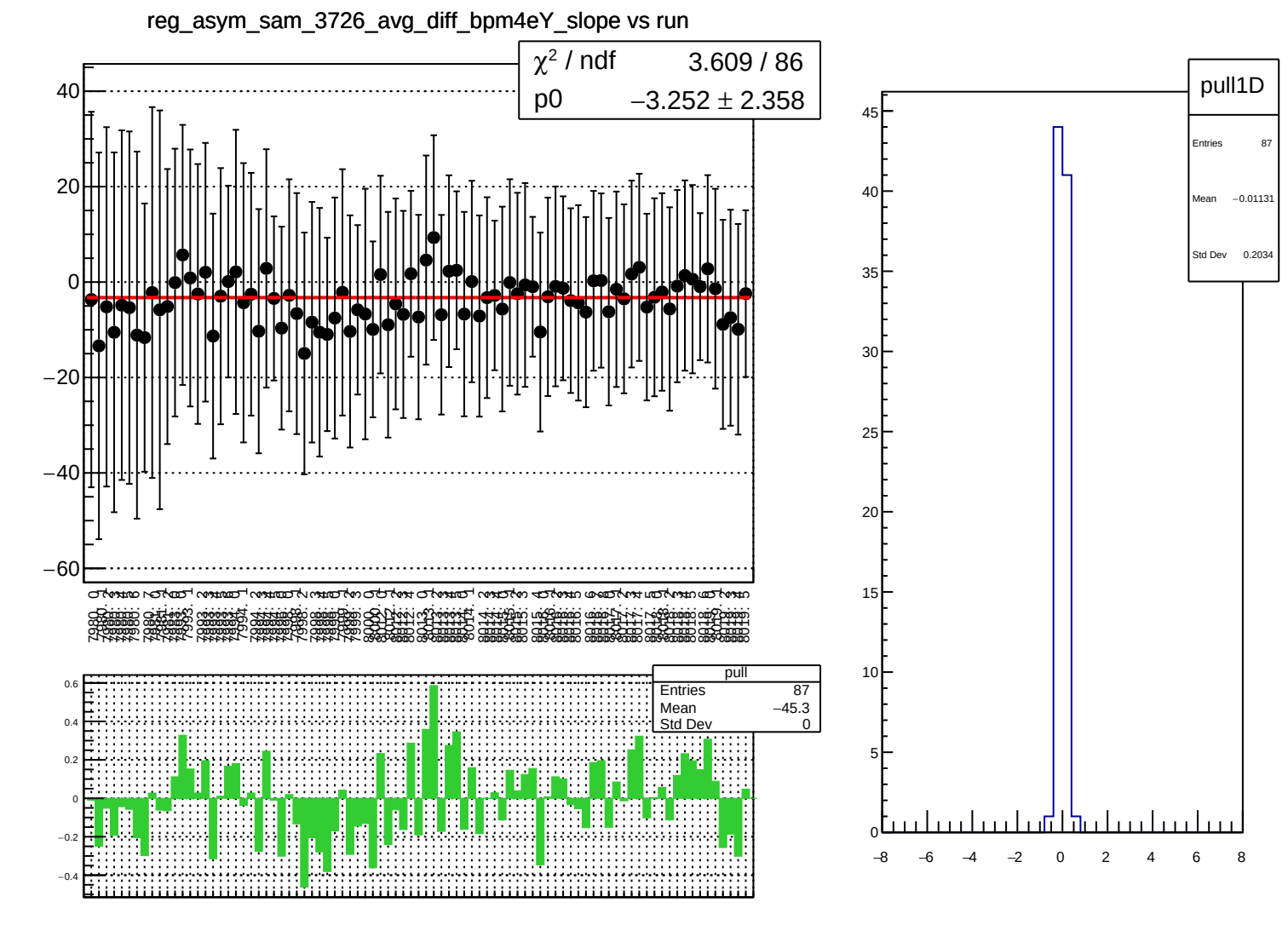

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.972 / 86
p0 11.55 ± 1.147
pull
Entries 87
Mean −10.4
Std Dev 0
pull1D
Entries 87
Mean −0.02425
Std Dev 0.3377

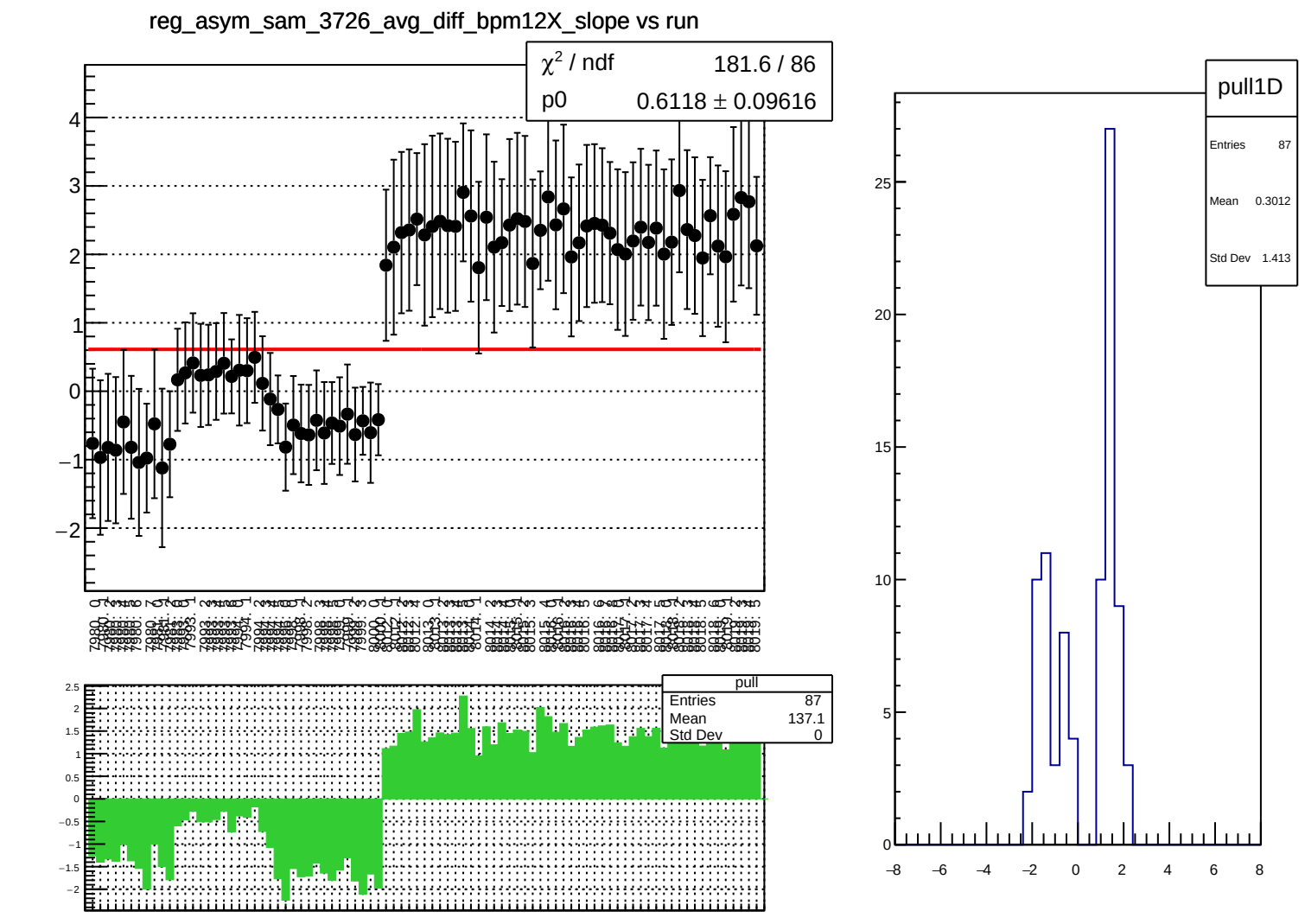

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 230.4 / 86
p0 0.4991 ± 0.047
pull
Entries 87
Mean 137.7
Std Dev 0
pull1D
Entries 87
Mean 0.3313
Std Dev 1.593

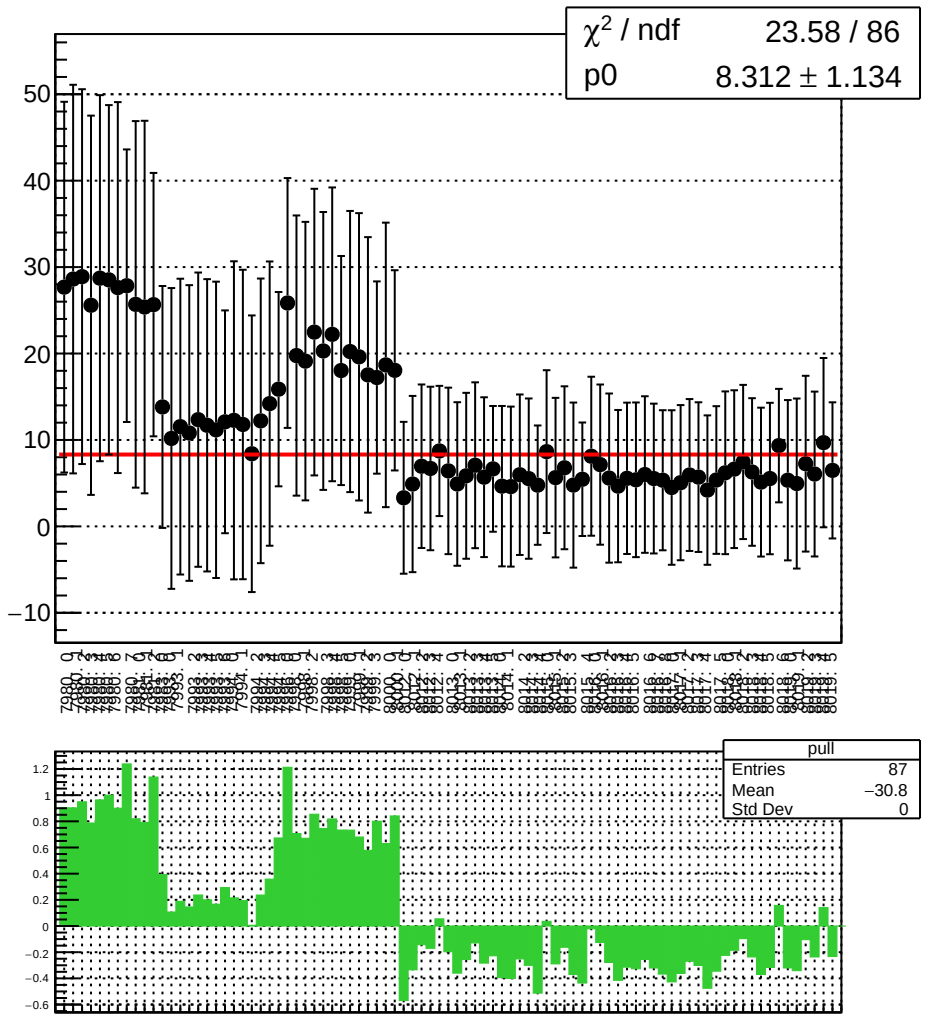

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 60.91 / 86
p0 −12.4 ± 1.459
pull
Entries 87
Mean −21.84
Std Dev 0
pull1D
Entries 87
Mean −0.207
Std Dev 0.8107

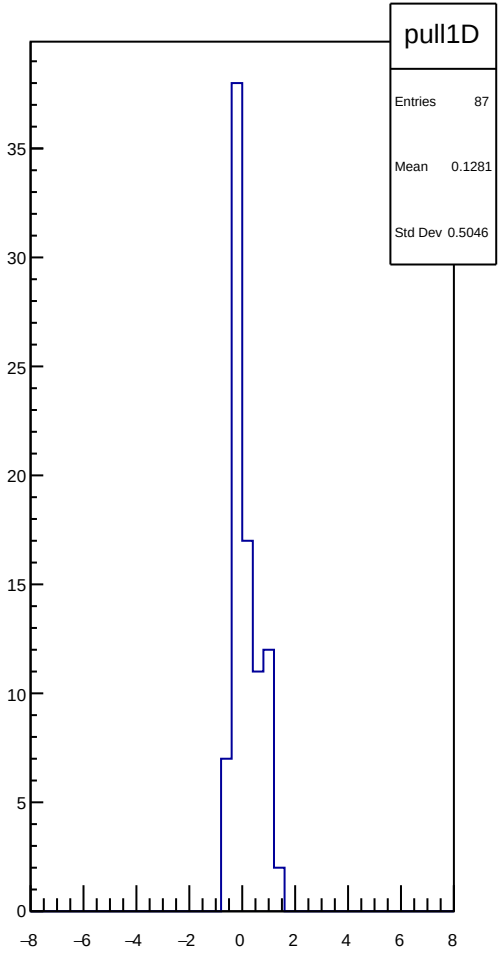

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.745 / 86
p0 −8.86 ± 2.18
pull
Entries 87
Mean −66.47
Std Dev 0
pull1D
Entries 87
Mean −0.003022
Std Dev 0.2075

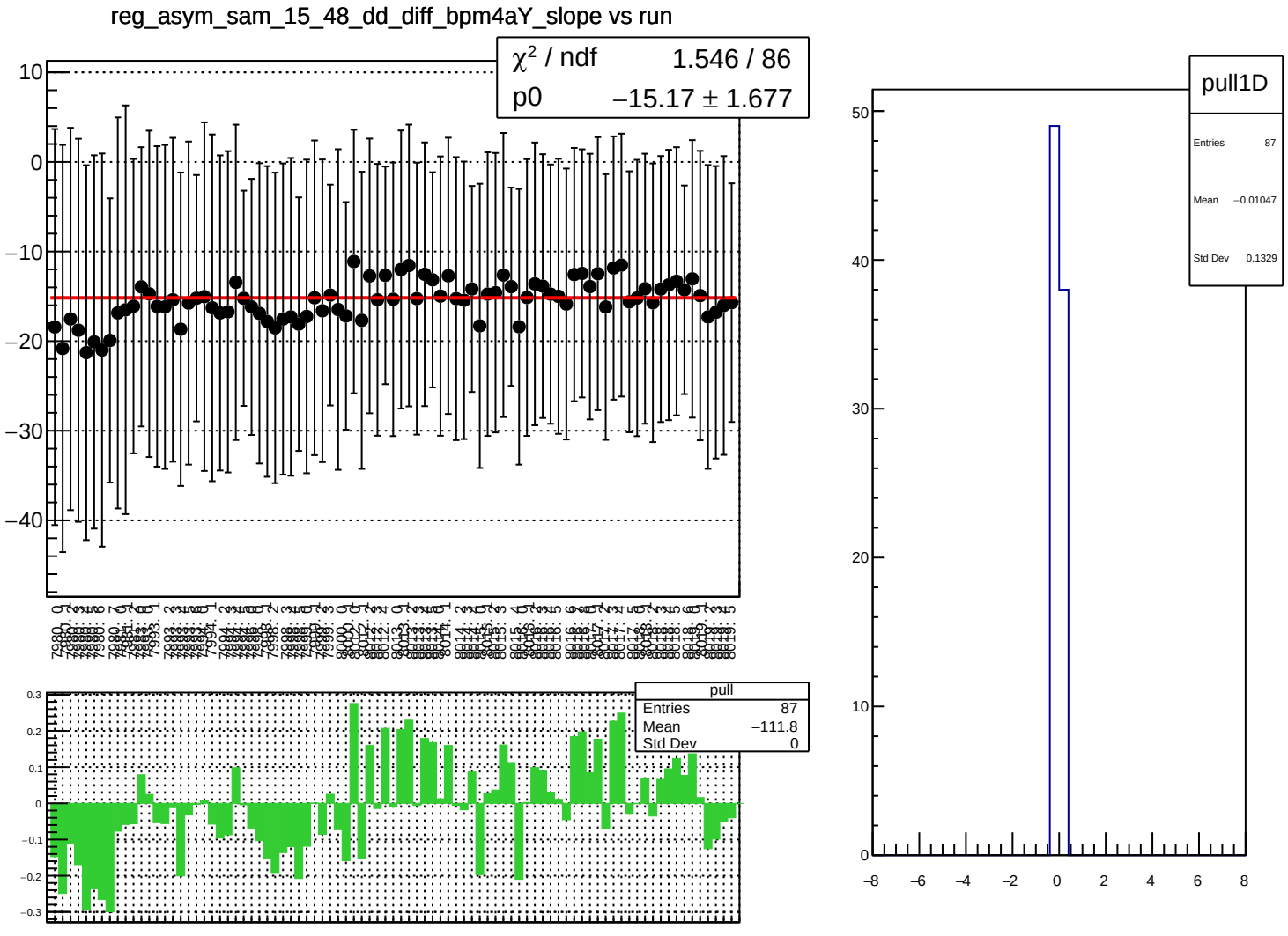

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.85 / 86
p0 −46.78 ± 1.503
pull
Entries 87
Mean −34.41
Std Dev 0
pull1D
Entries 87
Mean 0.05271
Std Dev 0.4983

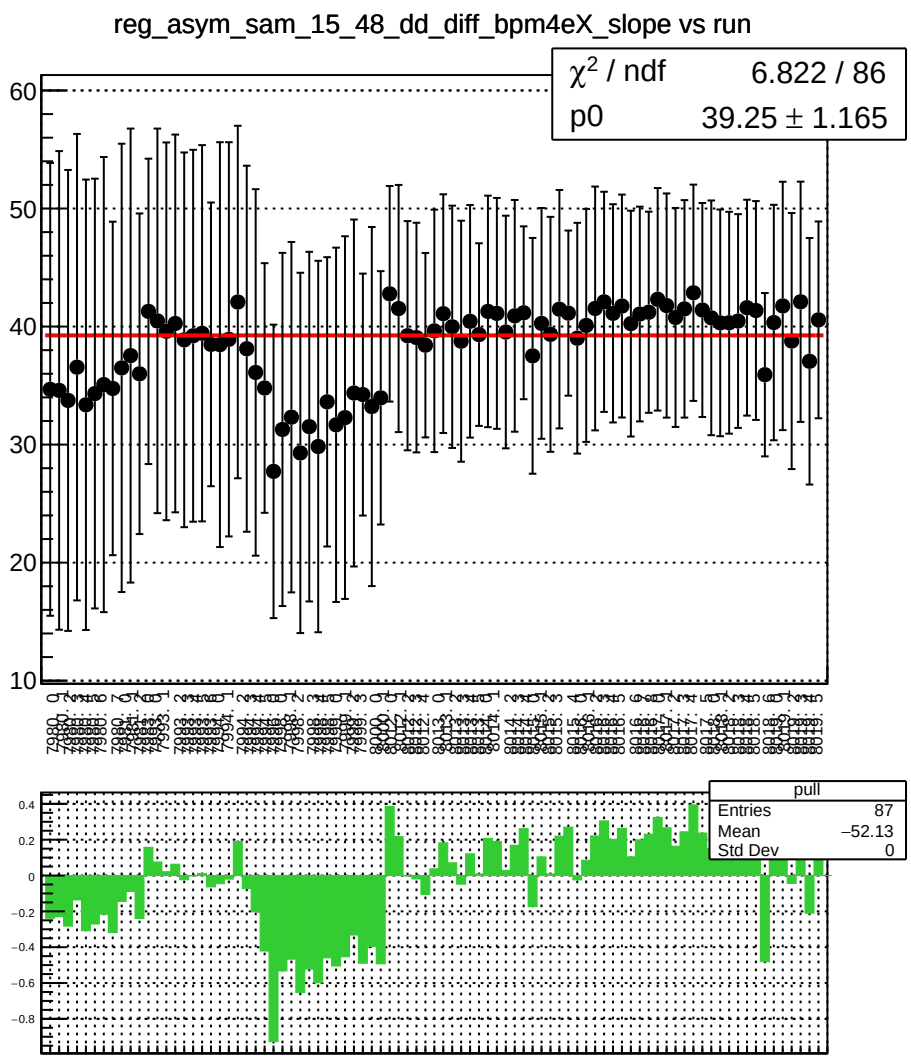

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.609 / 86
p0 −3.252 ± 2.358
pull
Entries 87
Mean −45.3
Std Dev 0
pull1D
Entries 87
Mean −0.01131
Std Dev 0.2034

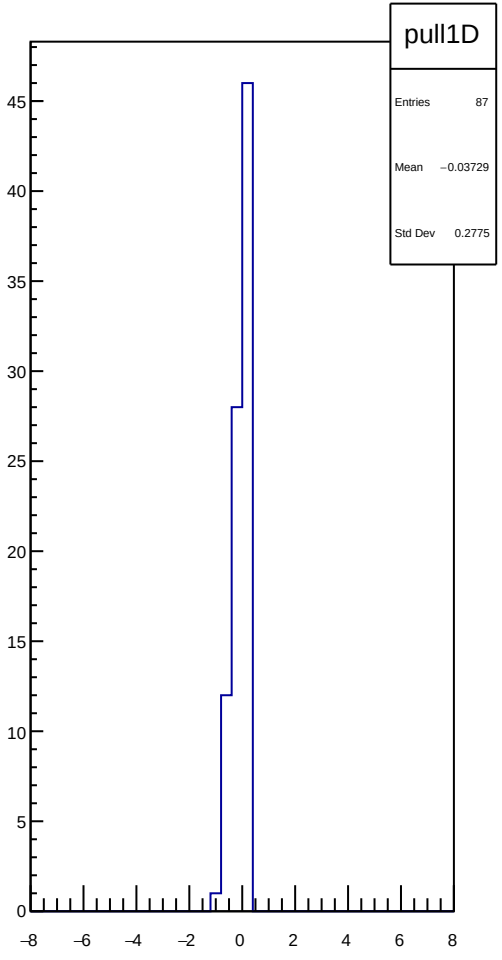

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 181.6 / 86
p0 0.6118 ± 0.09616
pull
Entries 87
Mean 137.1
Std Dev 0
pull1D
Entries 87
Mean 0.3012
Std Dev 1.413

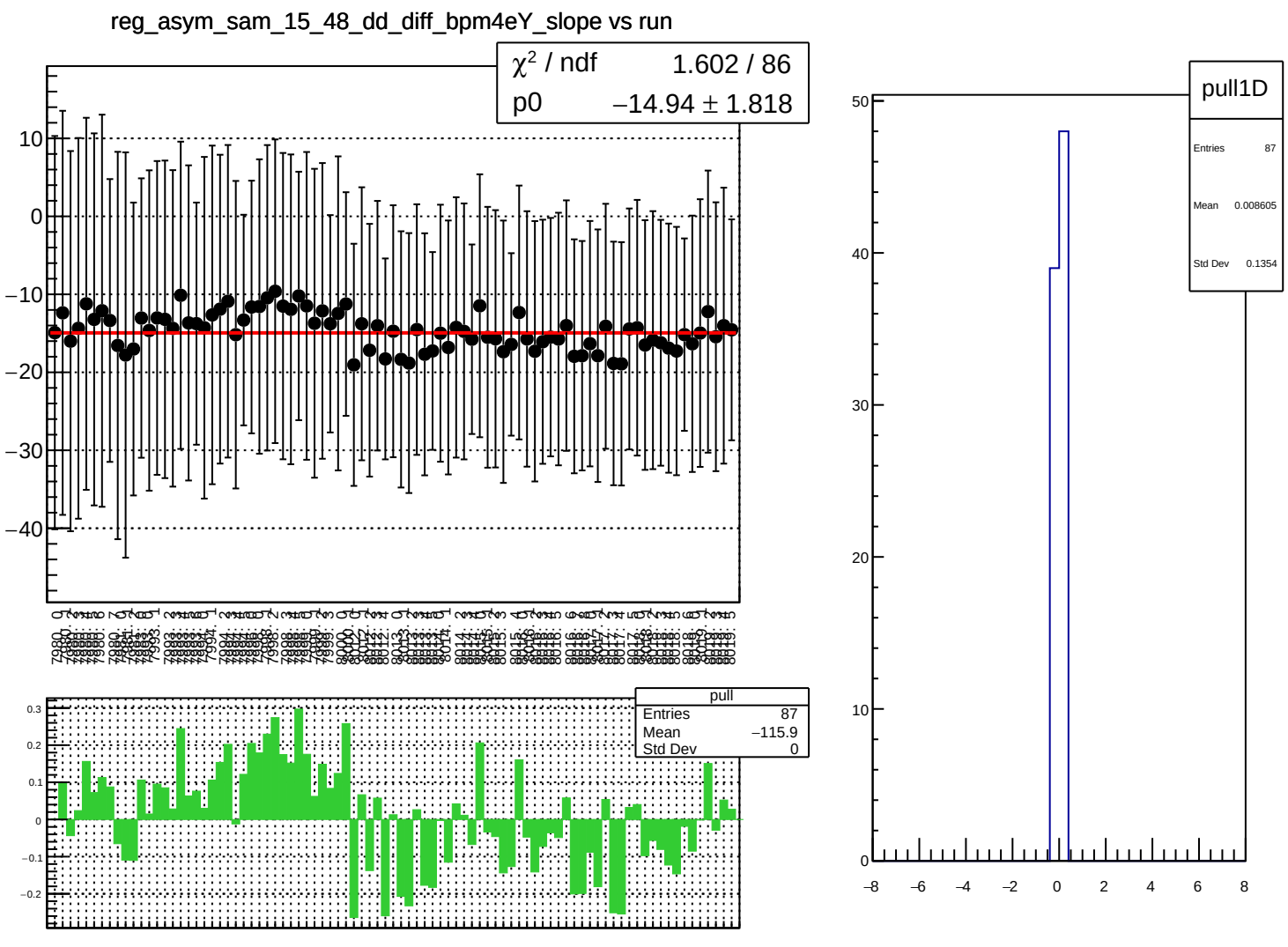

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 23.58 / 86
p0 8.312 ± 1.134
pull
Entries 87
Mean −30.8
Std Dev 0

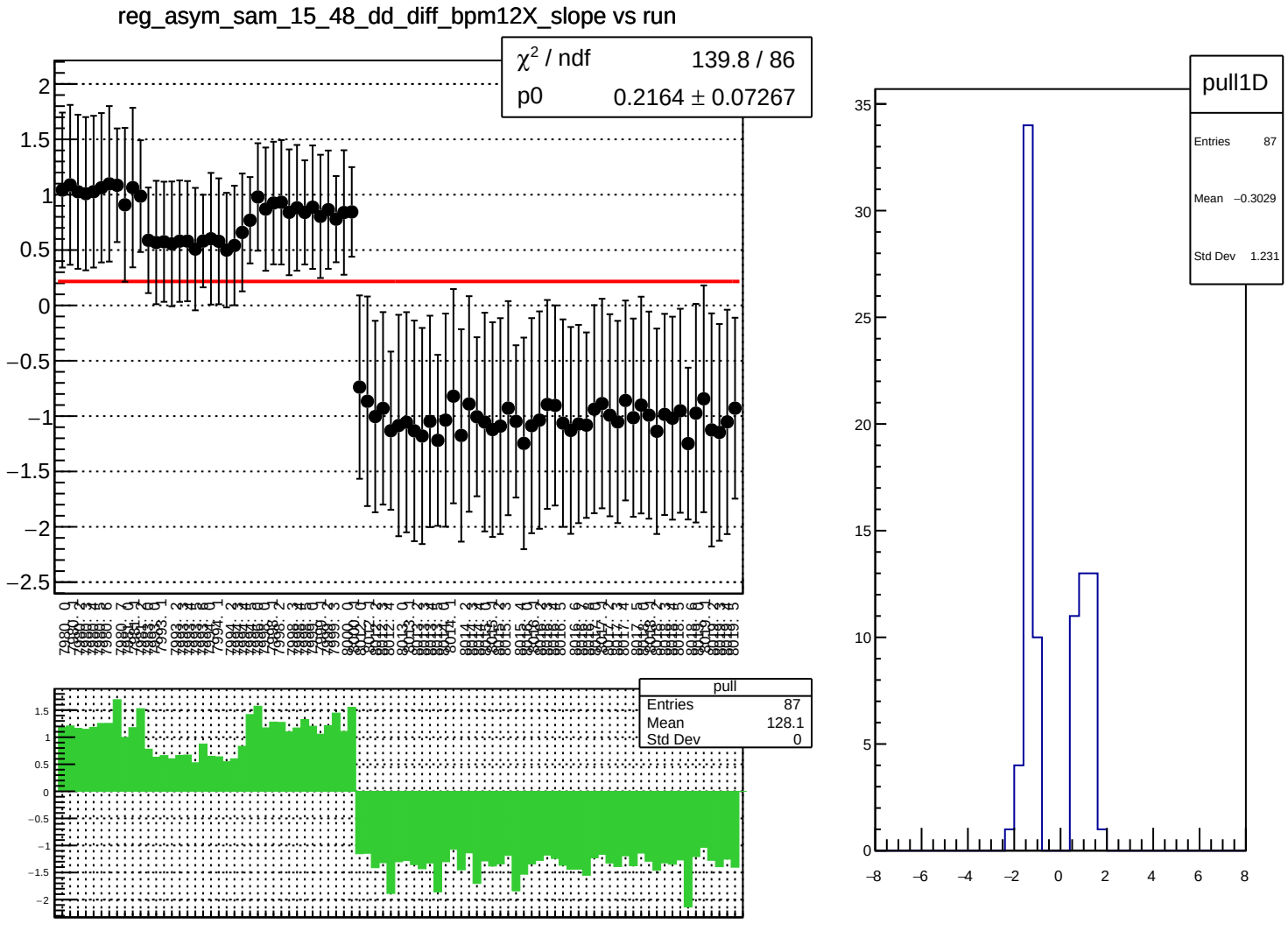

pull1D
Entries 87
Mean 0.1281
Std Dev 0.5046

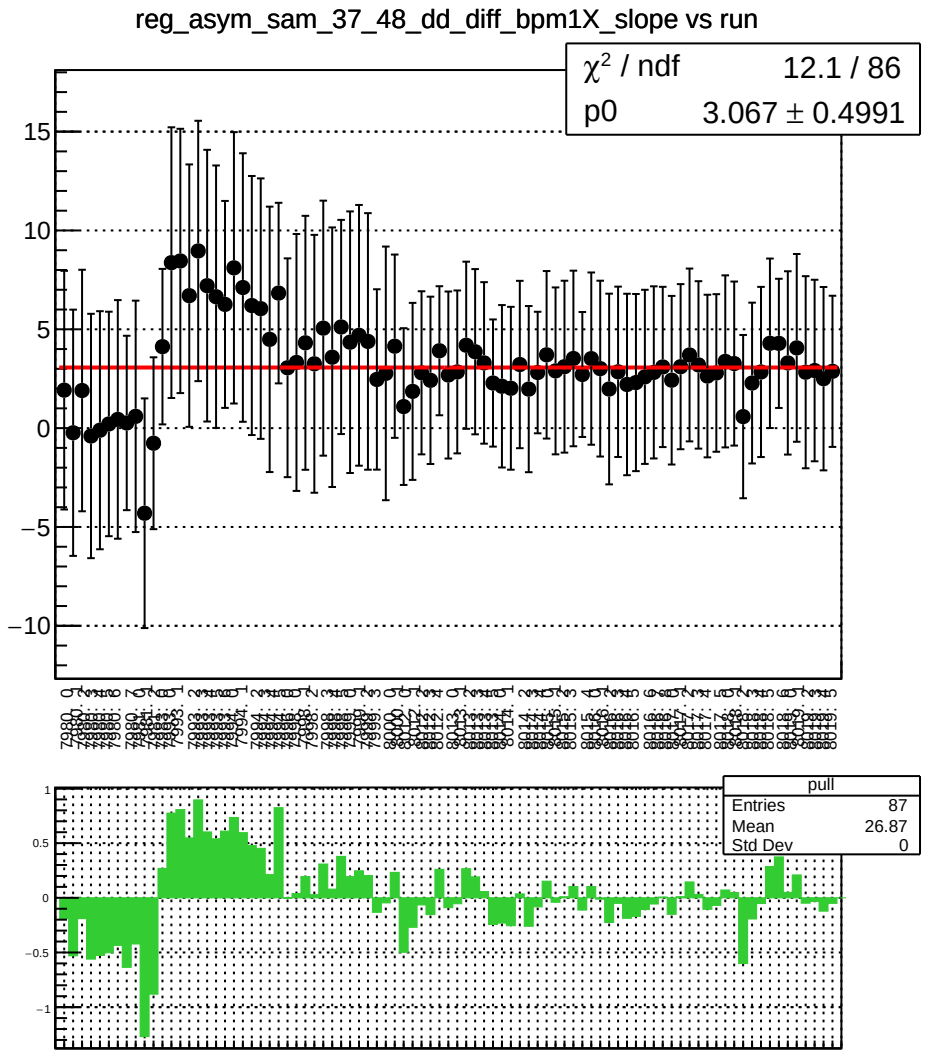

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.546 / 86
p0 −15.17 ± 1.677
pull
Entries 87
Mean −111.8
Std Dev 0
pull1D
Entries 87
Mean −0.01047
Std Dev 0.1329

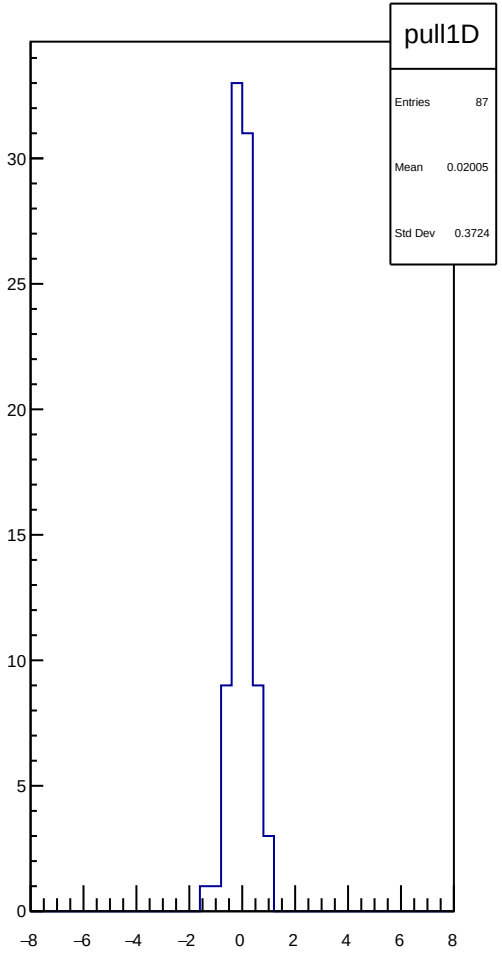

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.822 / 86
p0 39.25 ± 1.165
pull
Entries 87
Mean −52.13
Std Dev 0

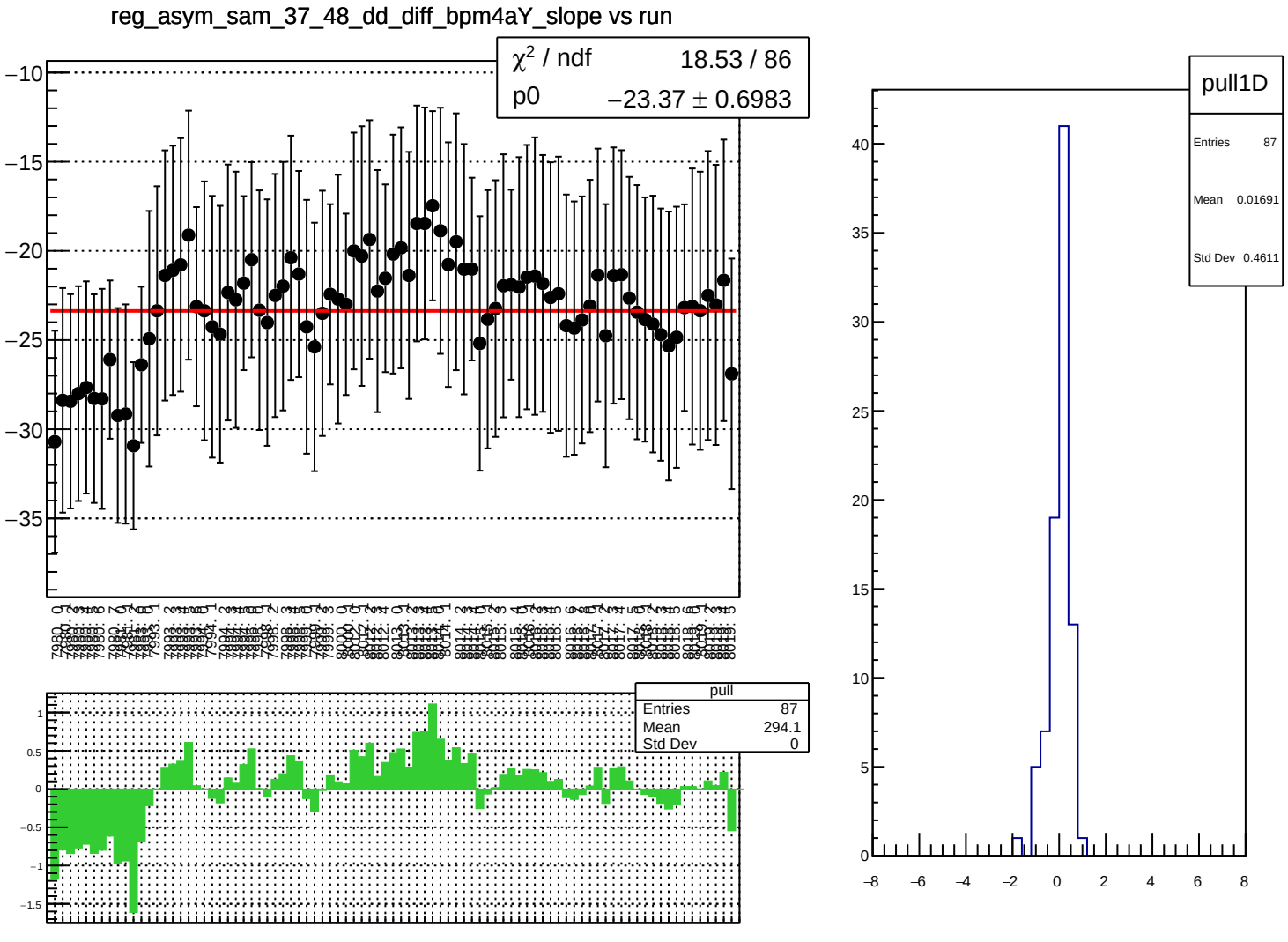

pull1D
Entries 87
Mean −0.03729
Std Dev 0.2775

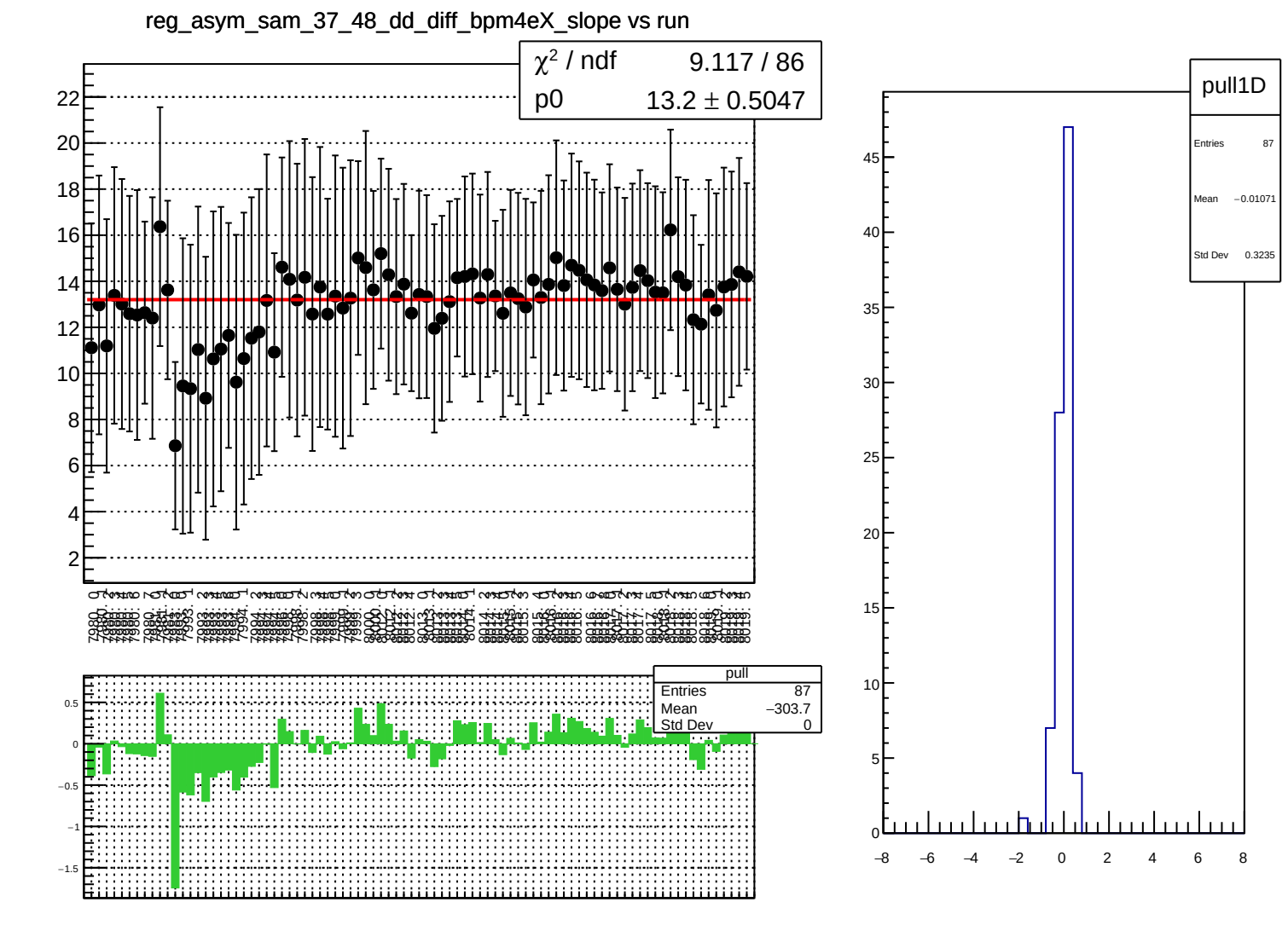

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.602 / 86
p0 −14.94 ± 1.818
pull
Entries 87
Mean −115.9
Std Dev 0
pull1D
Entries 87
Mean 0.008605
Std Dev 0.1354

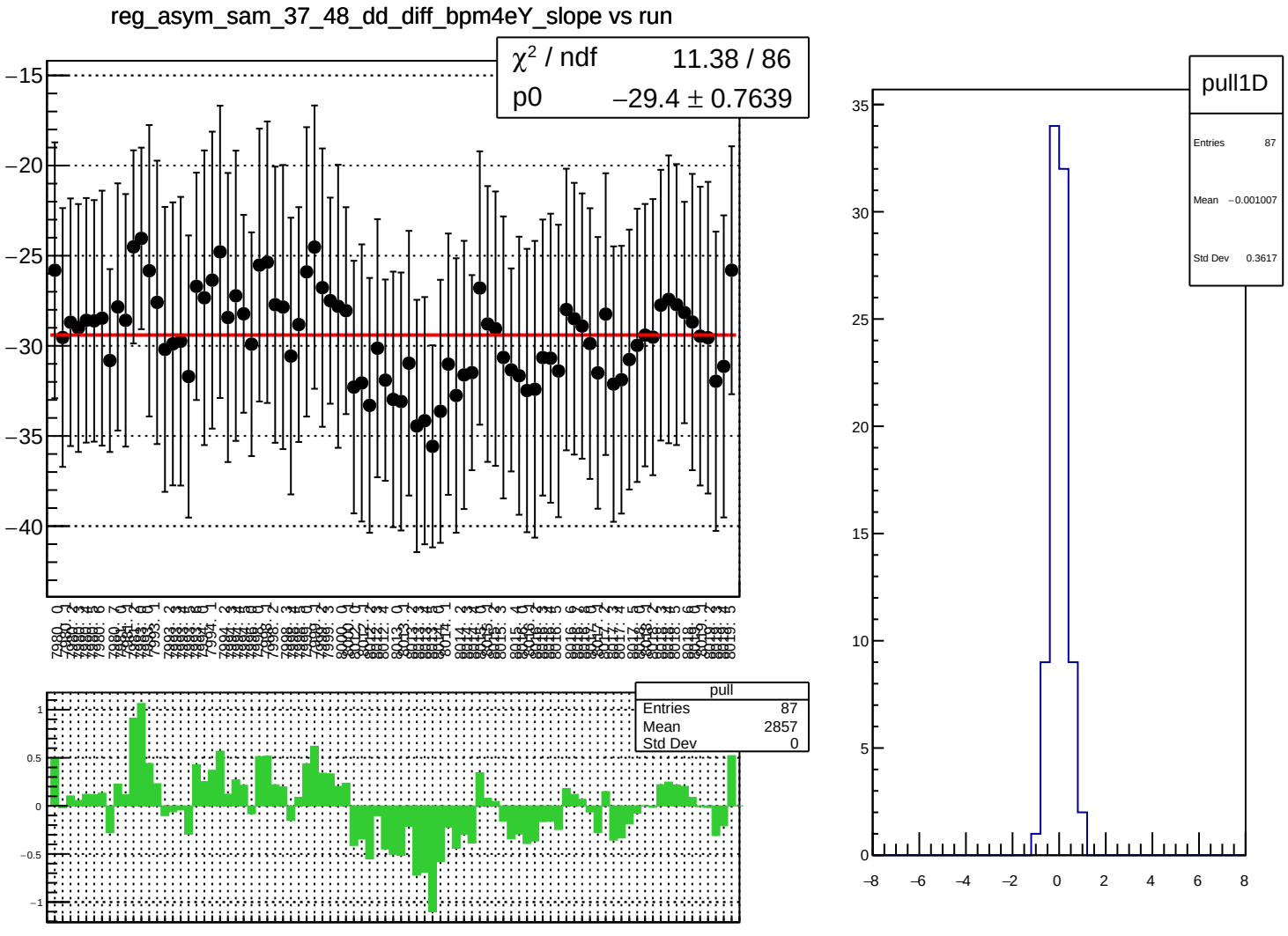

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 139.8 / 86
p0 0.2164 ± 0.07267
pull
Entries 87
Mean 128.1
Std Dev 0
pull1D
Entries 87
Mean −0.3029
Std Dev 1.231

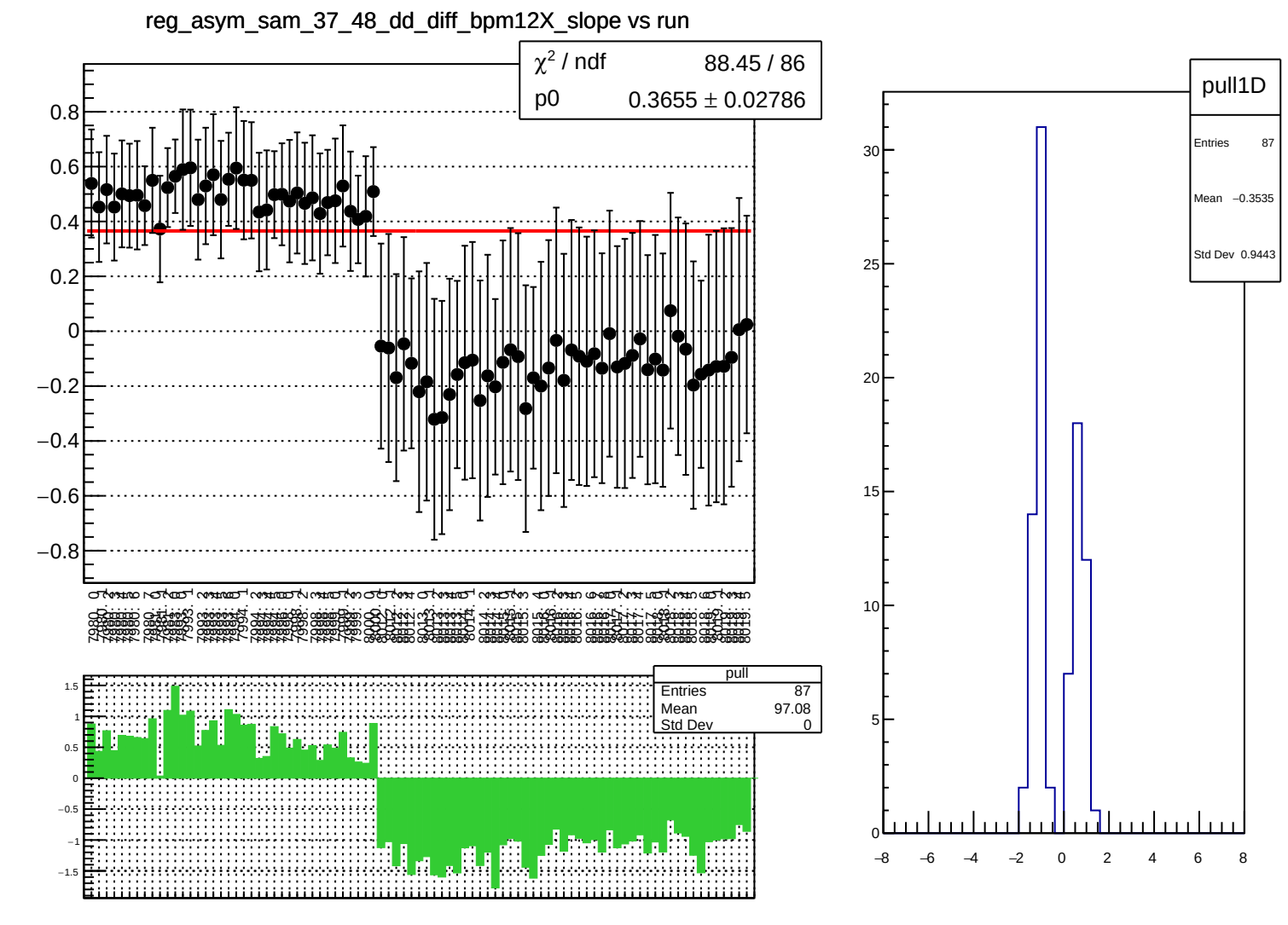

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 12.1 / 86
p0 3.067 ± 0.4991
pull
Entries 87
Mean 26.87
Std Dev 0

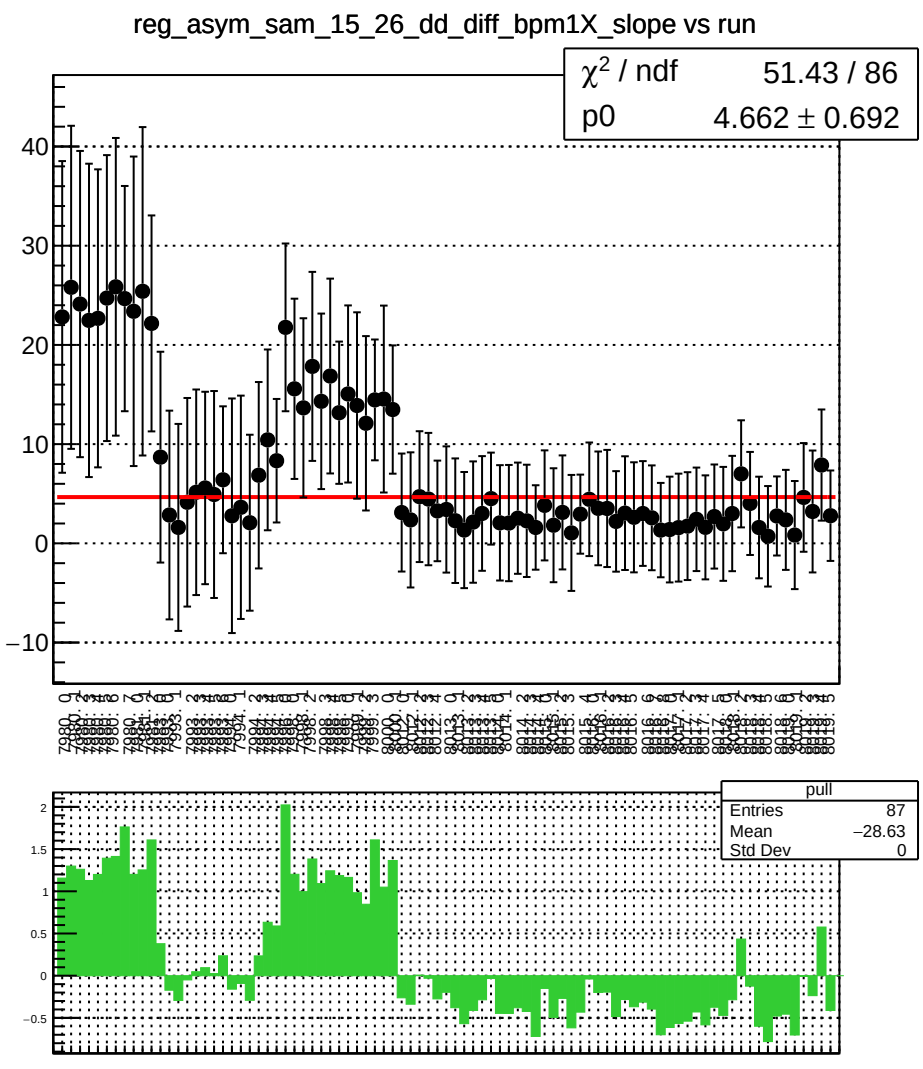

pull1D
Entries 87
Mean 0.02005
Std Dev 0.3724

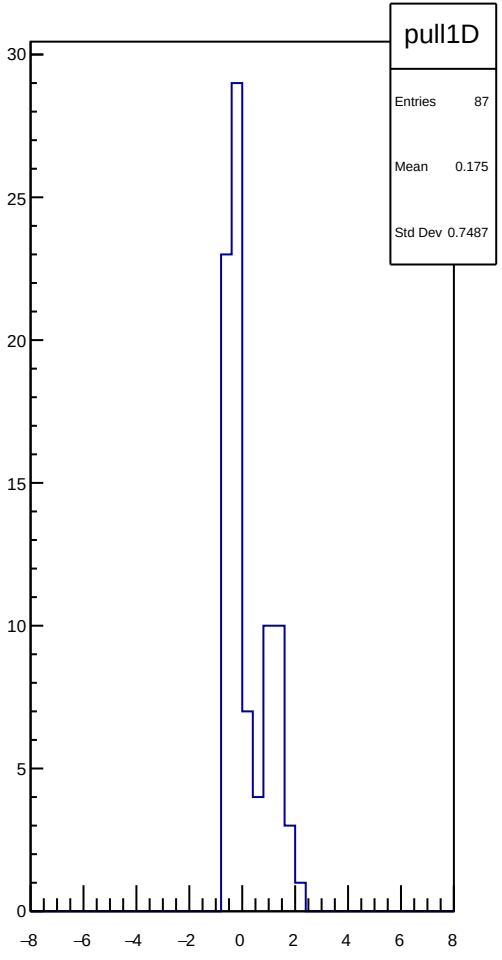

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.53 / 86
p0 −23.37 ± 0.6983
pull
Entries 87
Mean 294.1
Std Dev 0
pull1D
Entries 87
Mean 0.01691
Std Dev 0.4611

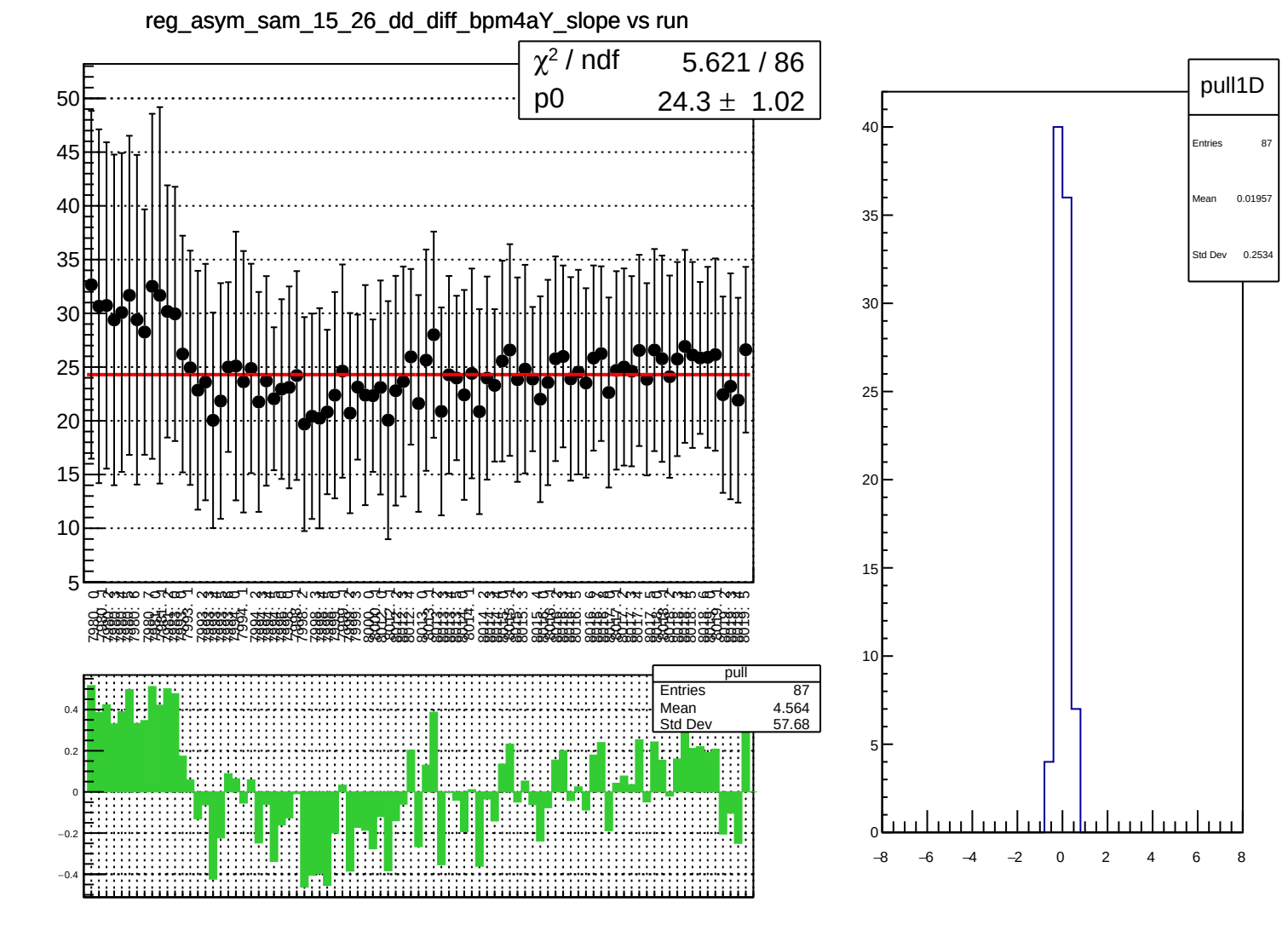

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.117 / 86
p0 13.2 ± 0.5047
pull
Entries 87
Mean −303.7
Std Dev 0
pull1D
Entries 87
Mean −0.01071
Std Dev 0.3235

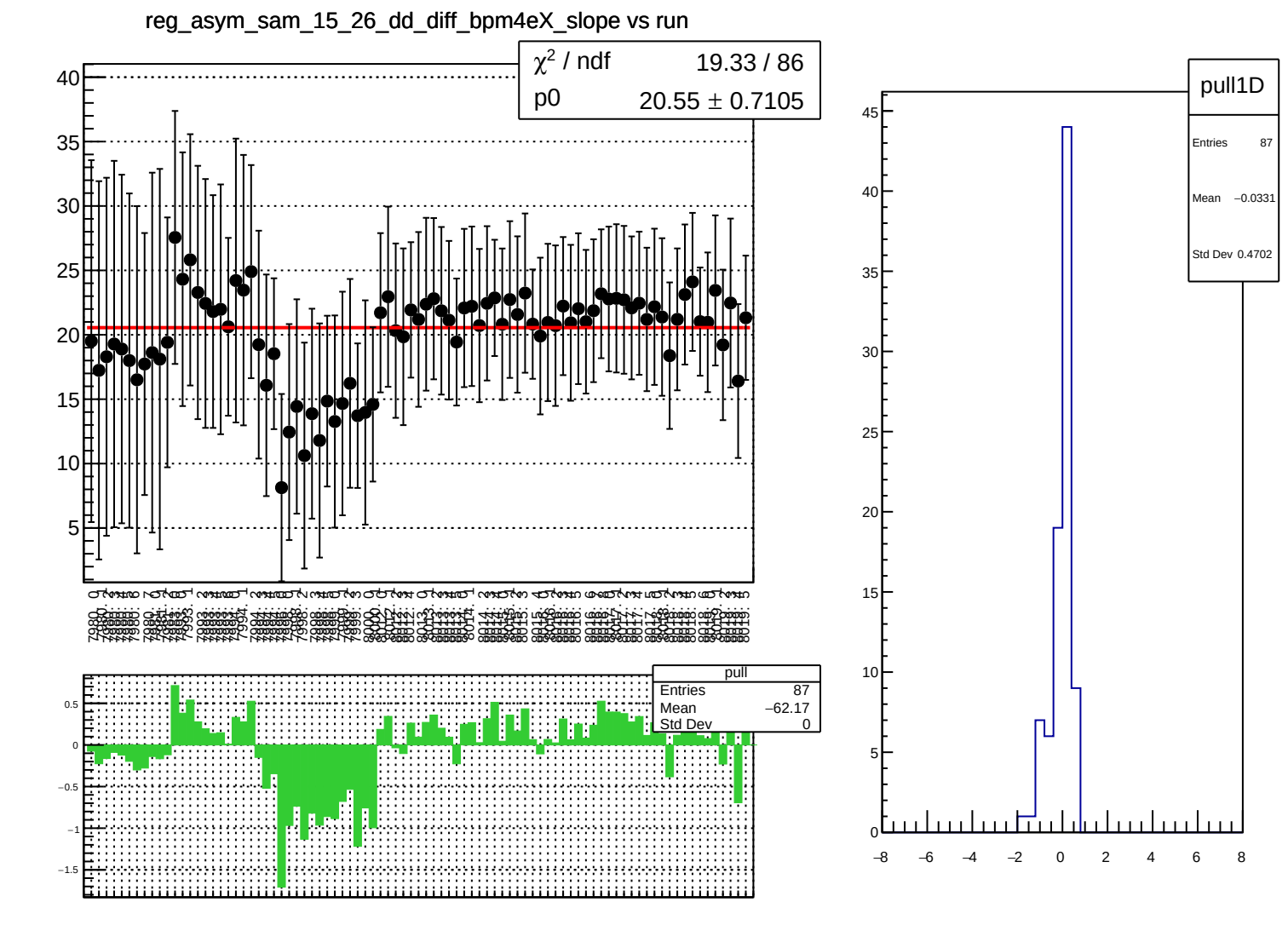

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.38 / 86
p0 −29.4 ± 0.7639
pull
Entries 87
Mean 2857
Std Dev 0
pull1D
Entries 87
Mean −0.001007
Std Dev 0.3617

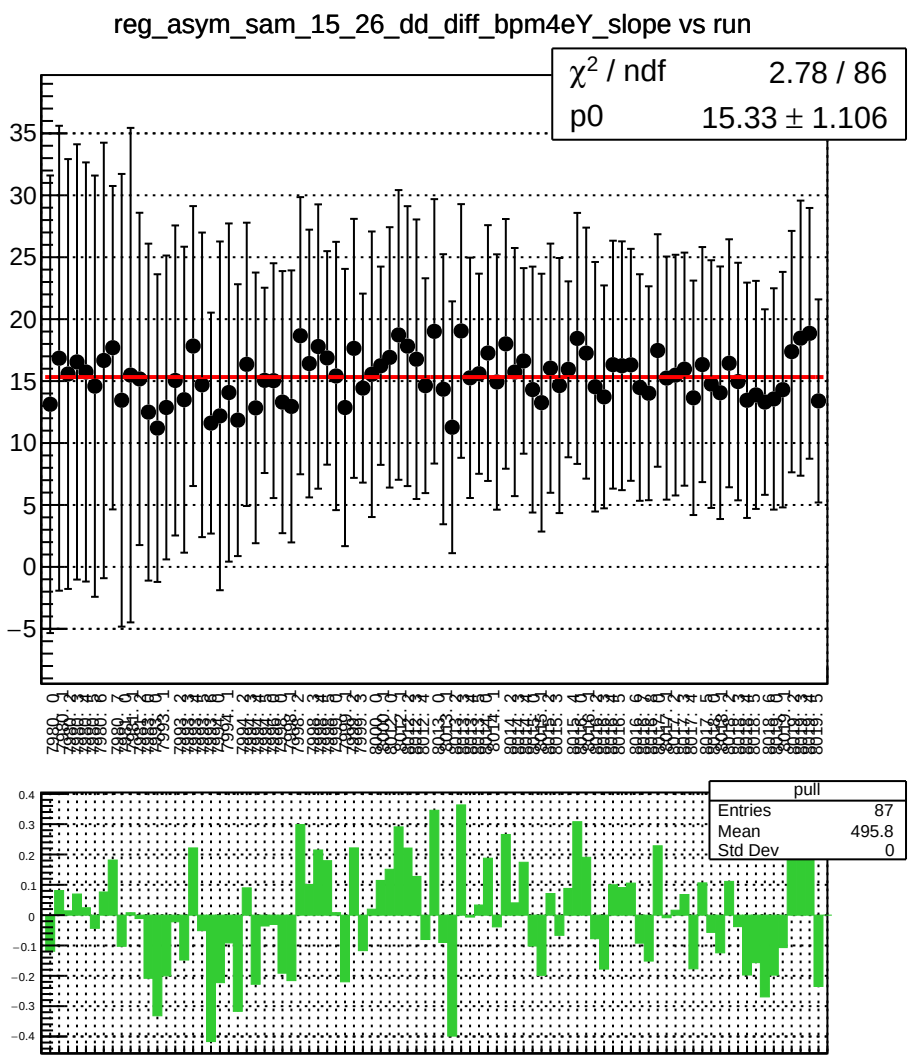

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 88.45 / 86
p0 0.3655 ± 0.02786
pull
Entries 87
Mean 97.08
Std Dev 0
pull1D
Entries 87
Mean −0.3535
Std Dev 0.9443

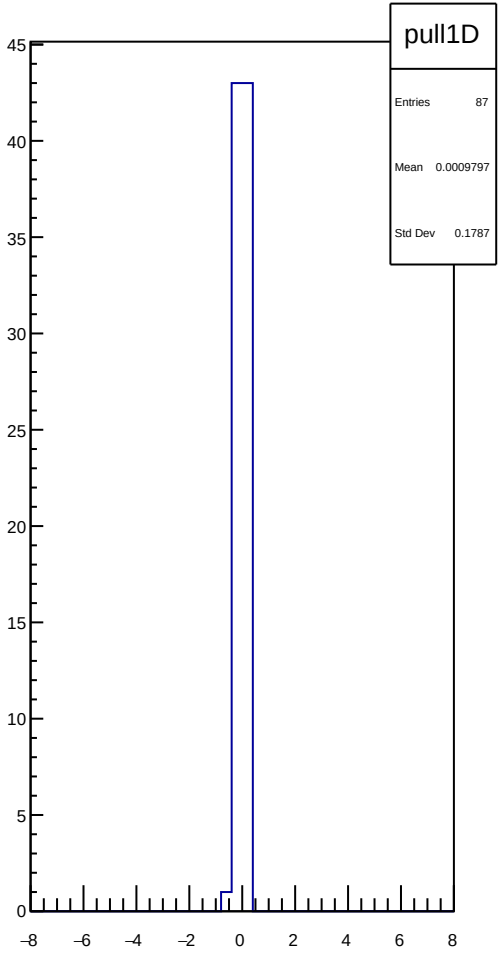

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 51.43 / 86
p0 4.662 ± 0.692
pull
Entries 87
Mean −28.63
Std Dev 0

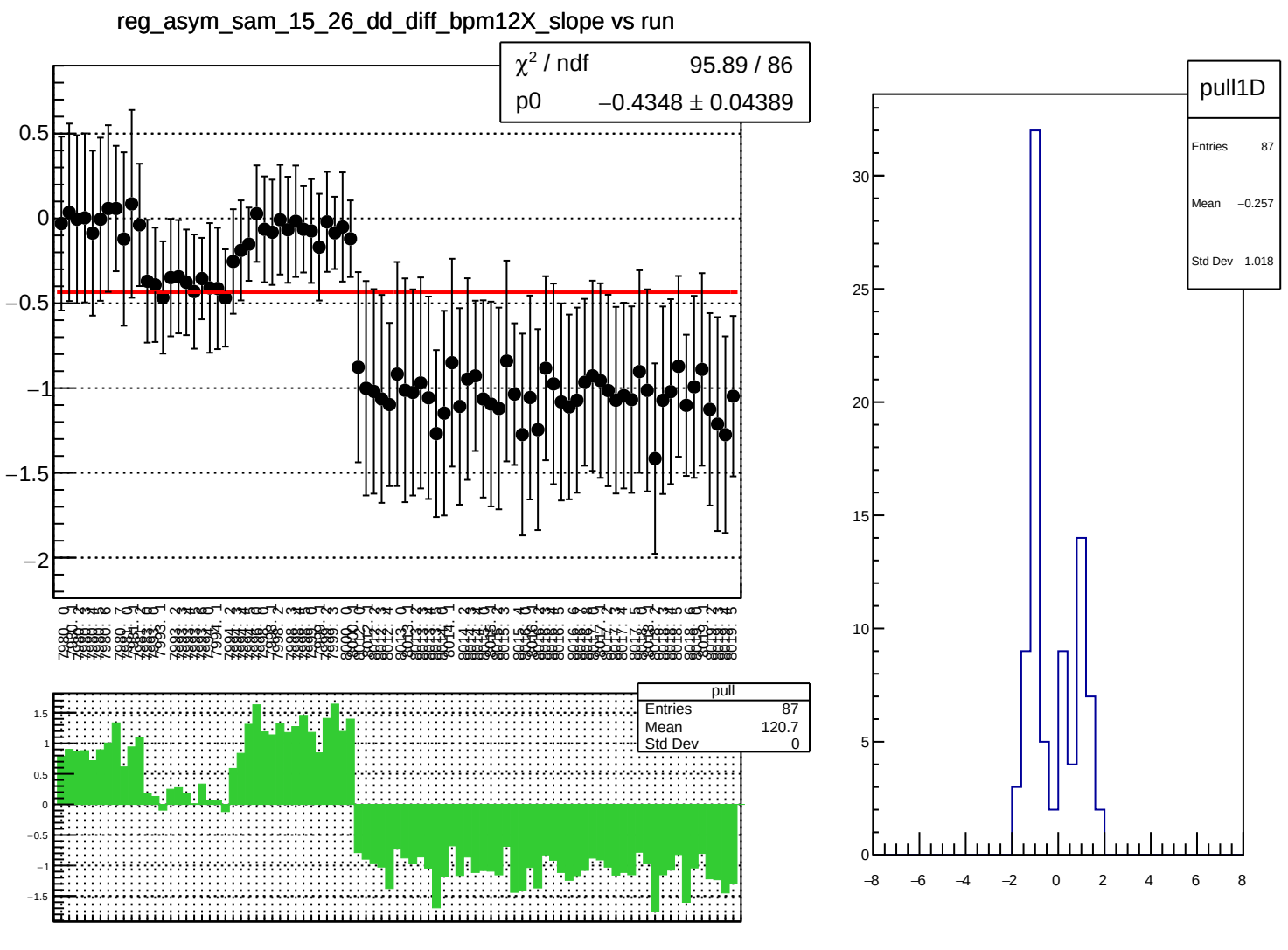

pull1D
Entries 87
Mean 0.175
Std Dev 0.7487

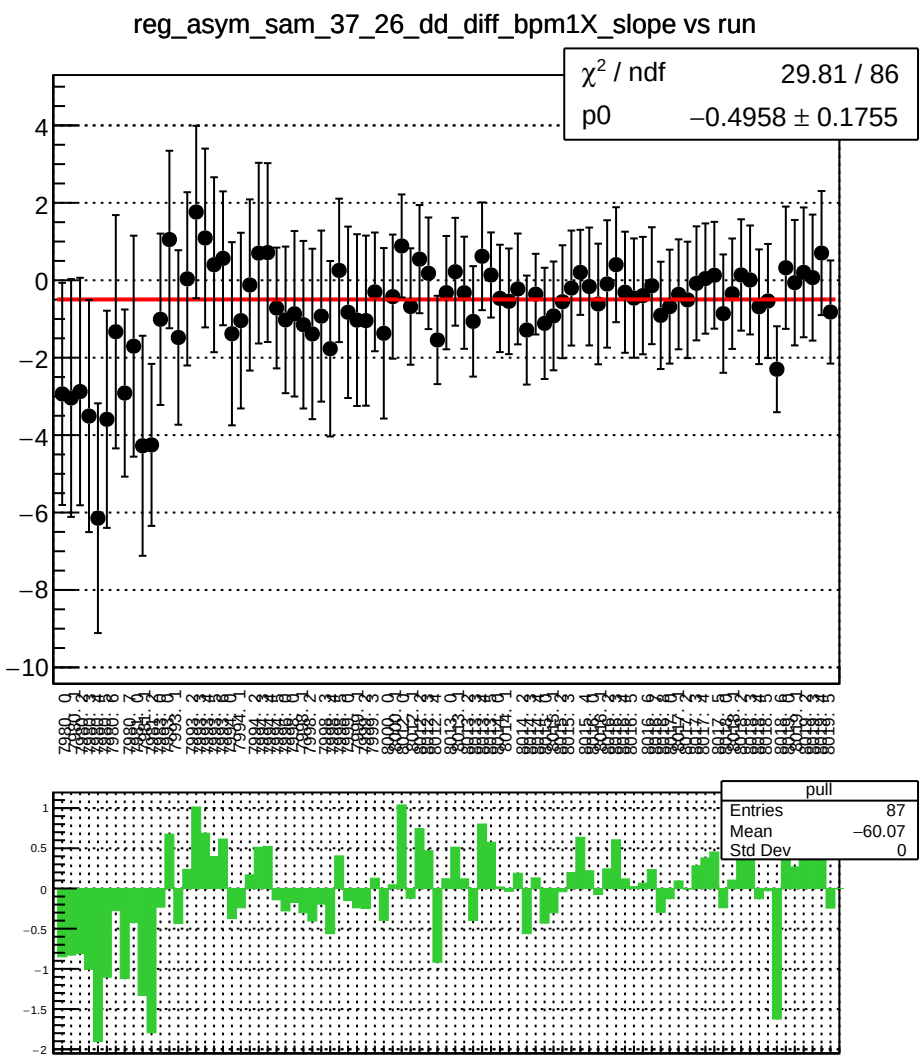

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.621 / 86
p0 24.3 ± 1.02
pull
Entries 87
Mean 4.564
Std Dev 57.68
pull1D
Entries 87
Mean 0.01957
Std Dev 0.2534

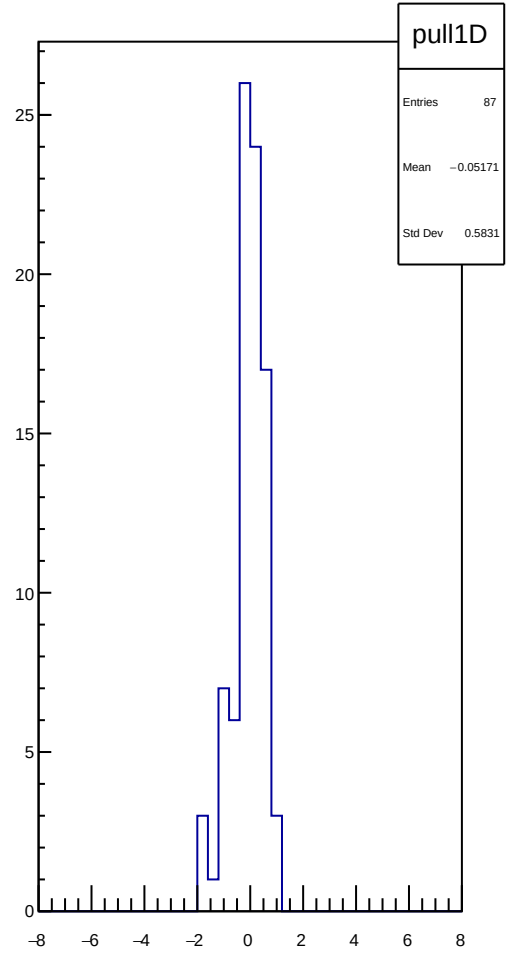

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.33 / 86
p0 20.55 ± 0.7105
pull
Entries 87
Mean −62.17
Std Dev 0
pull1D
Entries 87
Mean −0.0331
Std Dev 0.4702

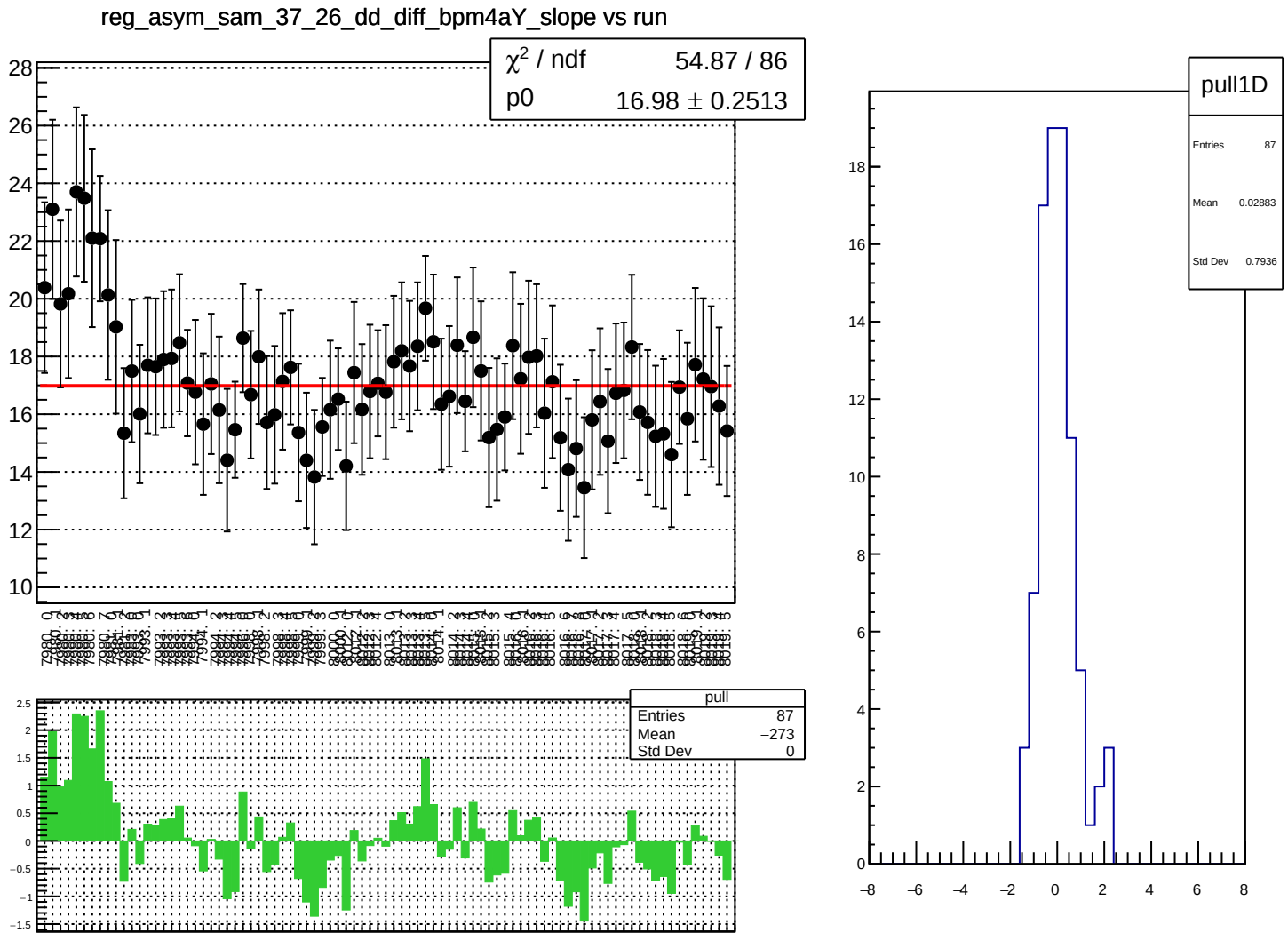

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.78 / 86
p0 15.33 ± 1.106
pull
Entries 87
Mean 495.8
Std Dev 0

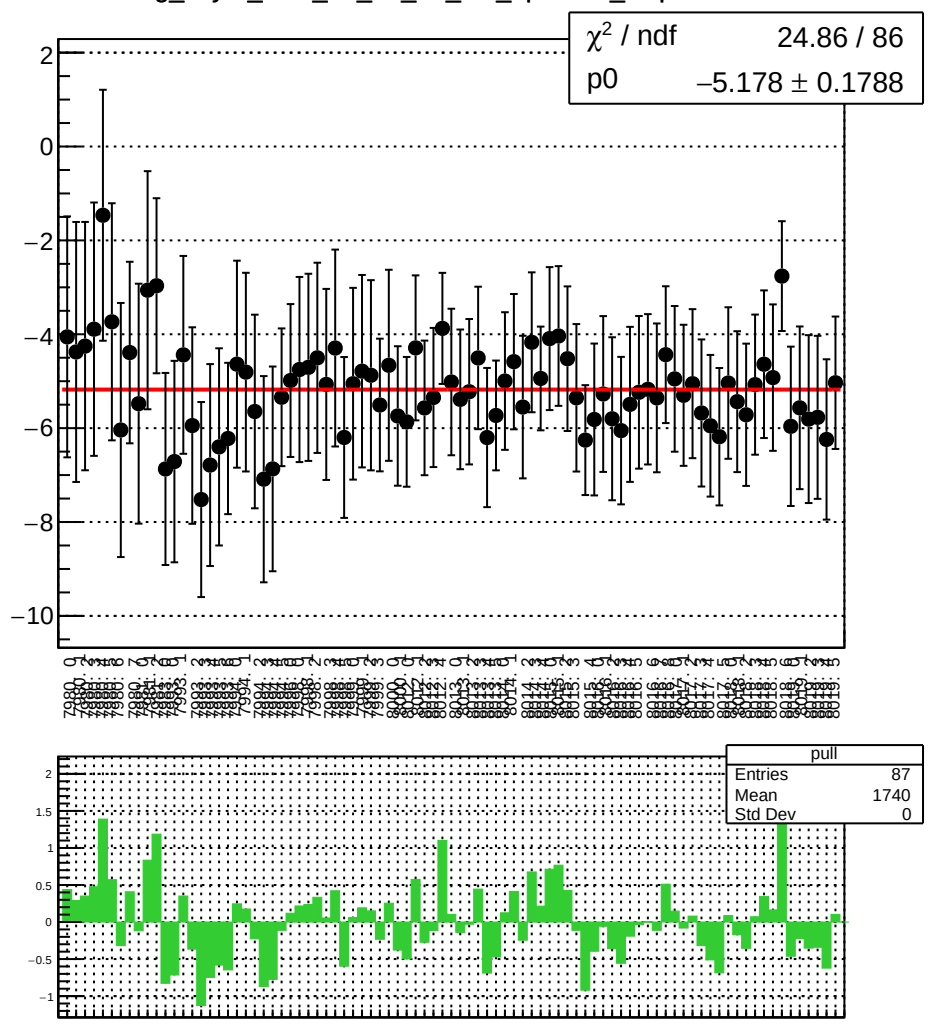

pull1D
Entries 87
Mean 0.0009797
Std Dev 0.1787

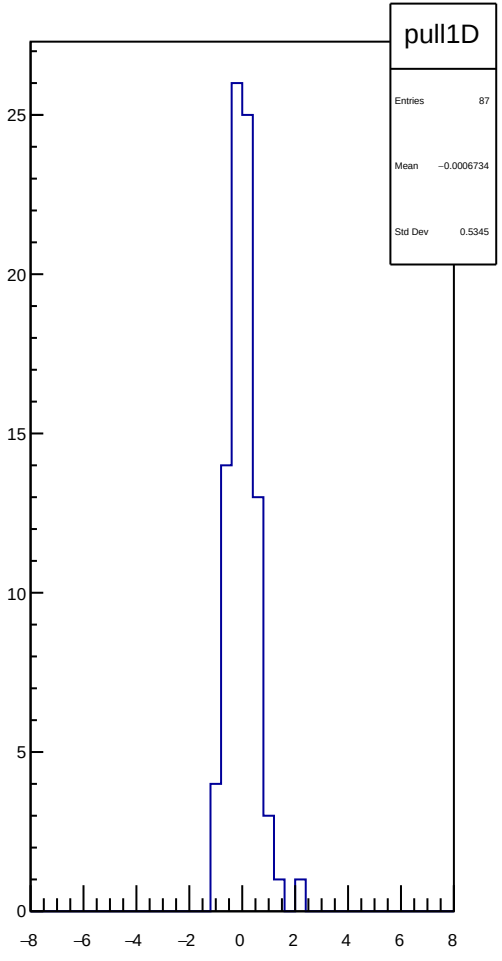

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 95.89 / 86
p0 −0.4348 ± 0.04389
pull
Entries 87
Mean 120.7
Std Dev 0
pull1D
Entries 87
Mean −0.257
Std Dev 1.018

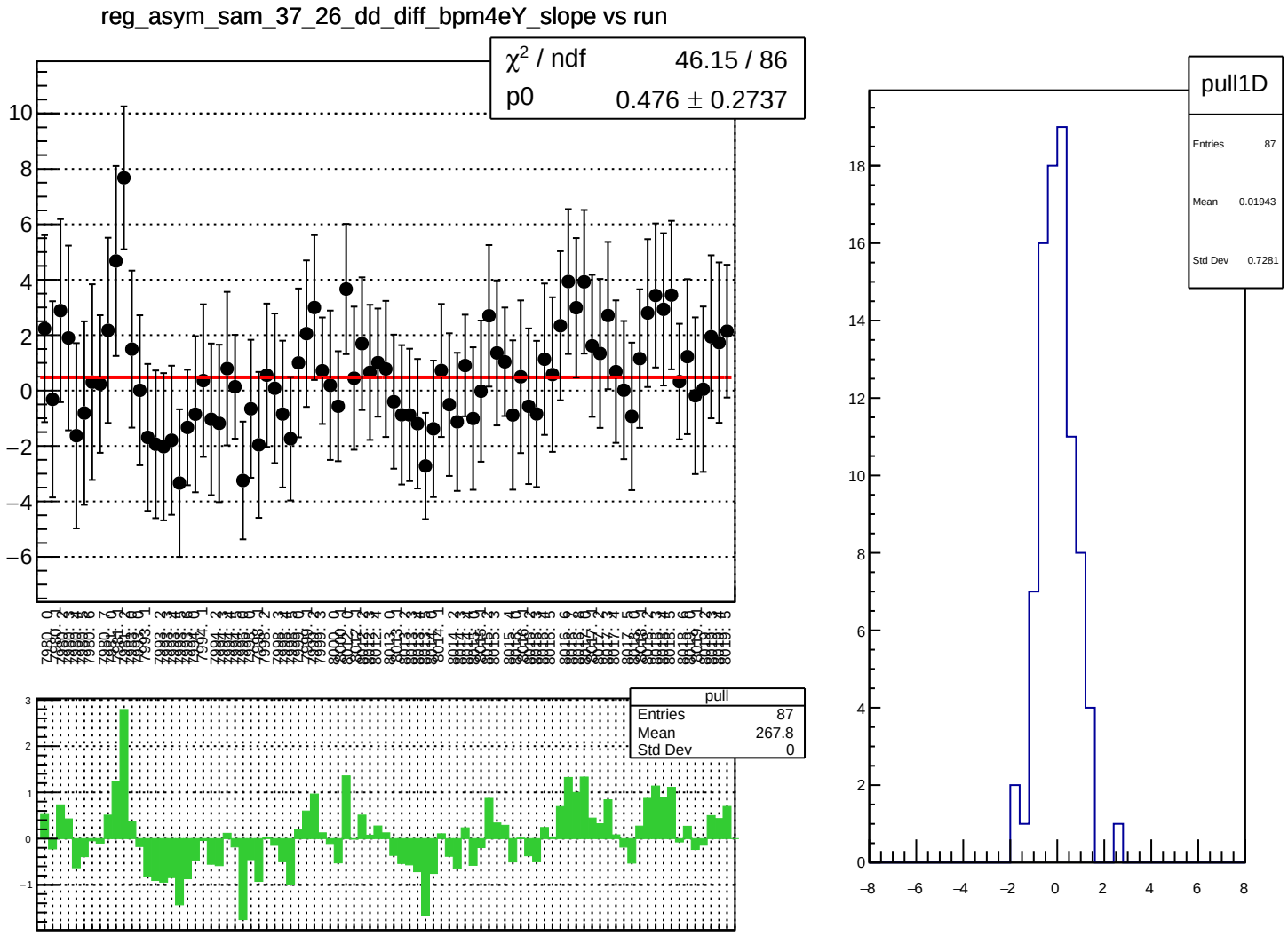

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 29.81 / 86
p0 −0.4958 ± 0.1755
pull
Entries 87
Mean −60.07
Std Dev 0

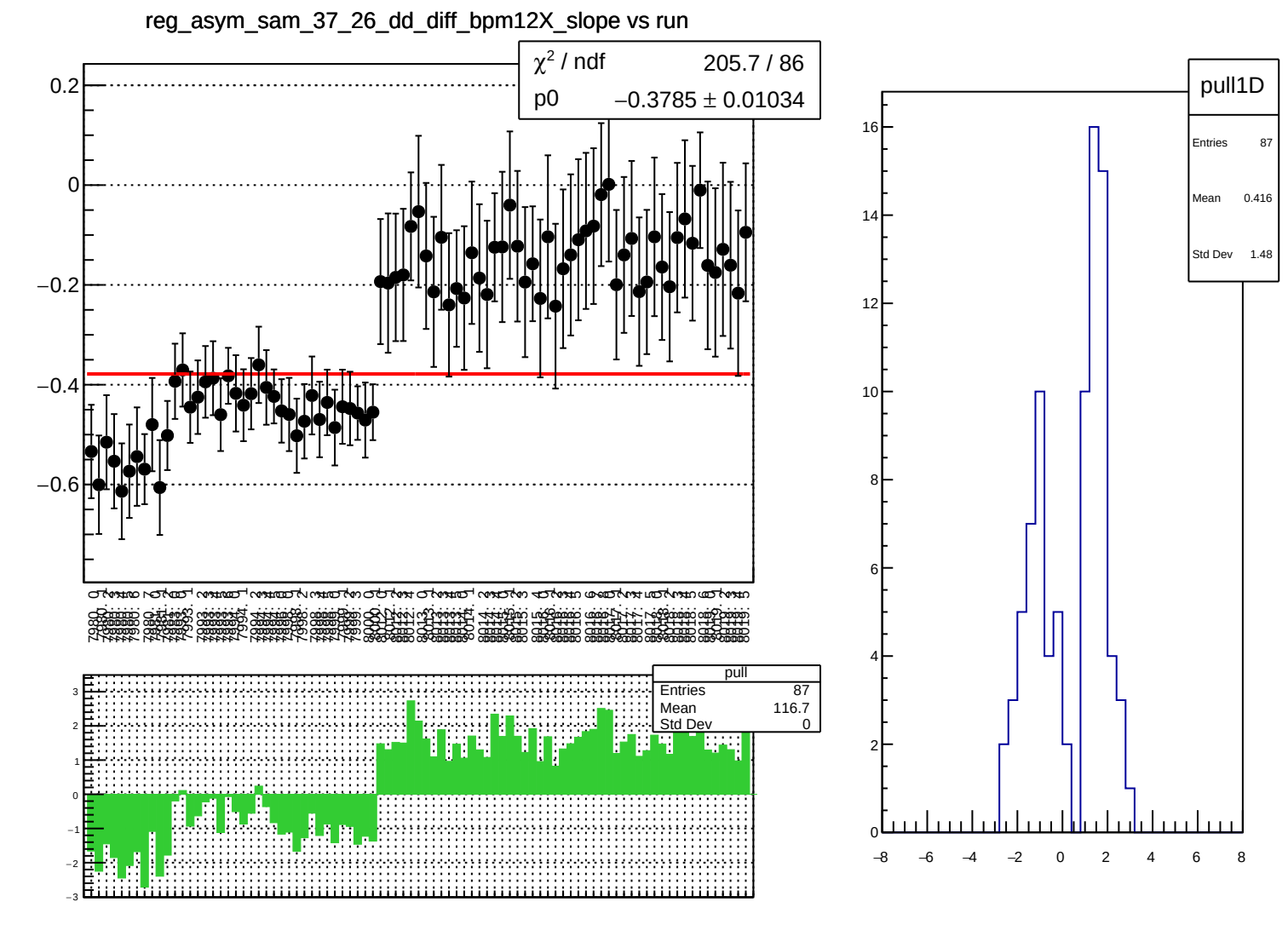

pull1D
Entries 87
Mean −0.05171
Std Dev 0.5831

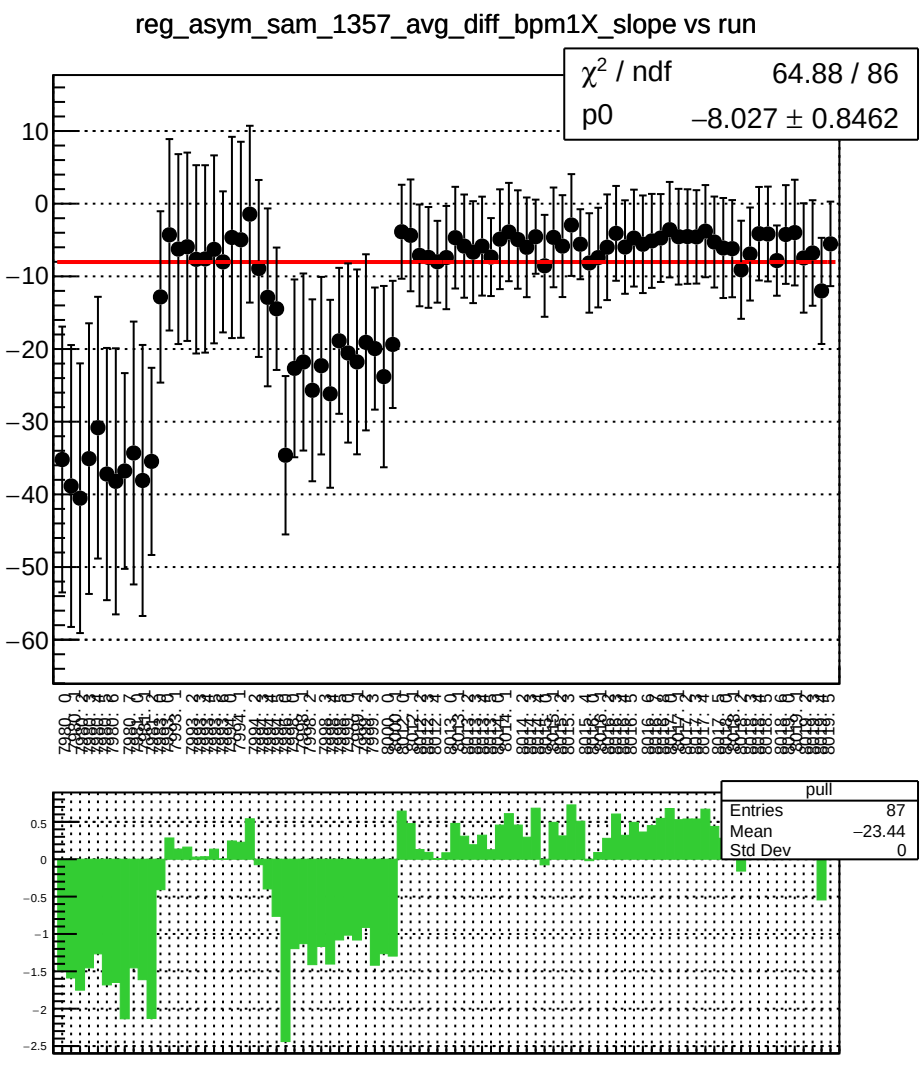

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.87 / 86
p0 16.98 ± 0.2513
pull
Entries 87
Mean −273
Std Dev 0
pull1D
Entries 87
Mean 0.02883
Std Dev 0.7936

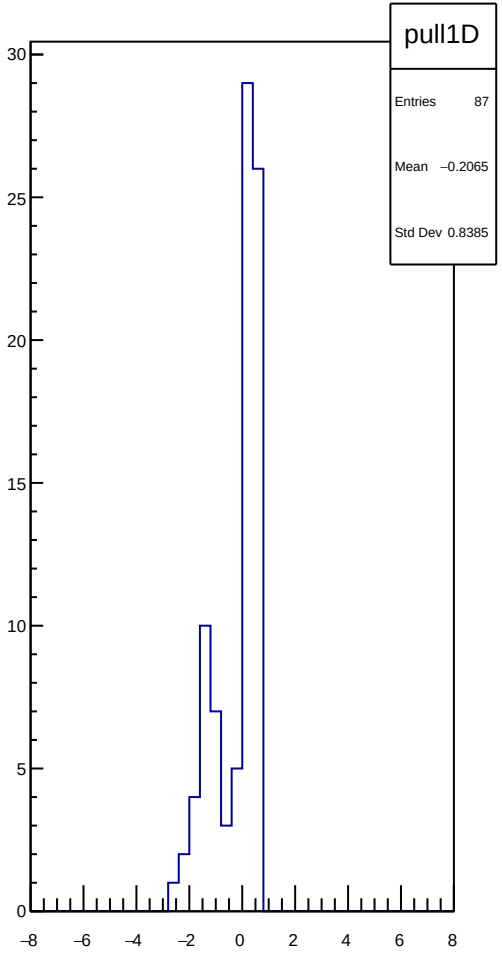

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.86 / 86
p0 −5.178 ± 0.1788
pull
Entries 87
Mean 1740
Std Dev 0

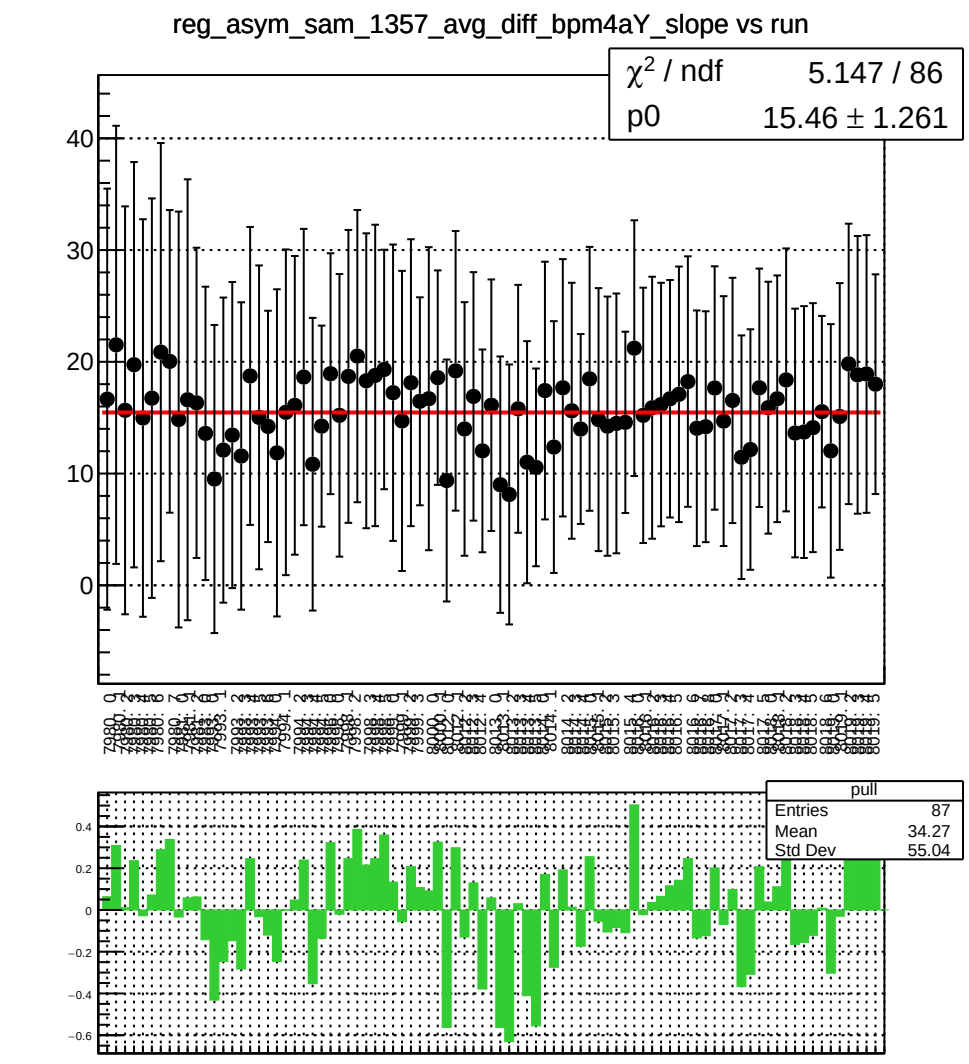

pull1D
Entries 87
Mean −0.0006734
Std Dev 0.5345

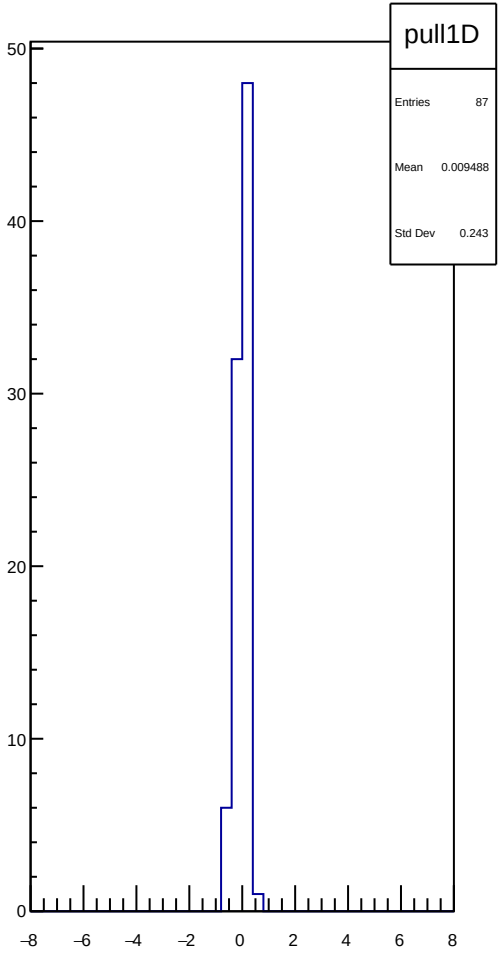

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.15 / 86
p0 0.476 ± 0.2737
pull
Entries 87
Mean 267.8
Std Dev 0
pull1D
Entries 87
Mean 0.01943
Std Dev 0.7281

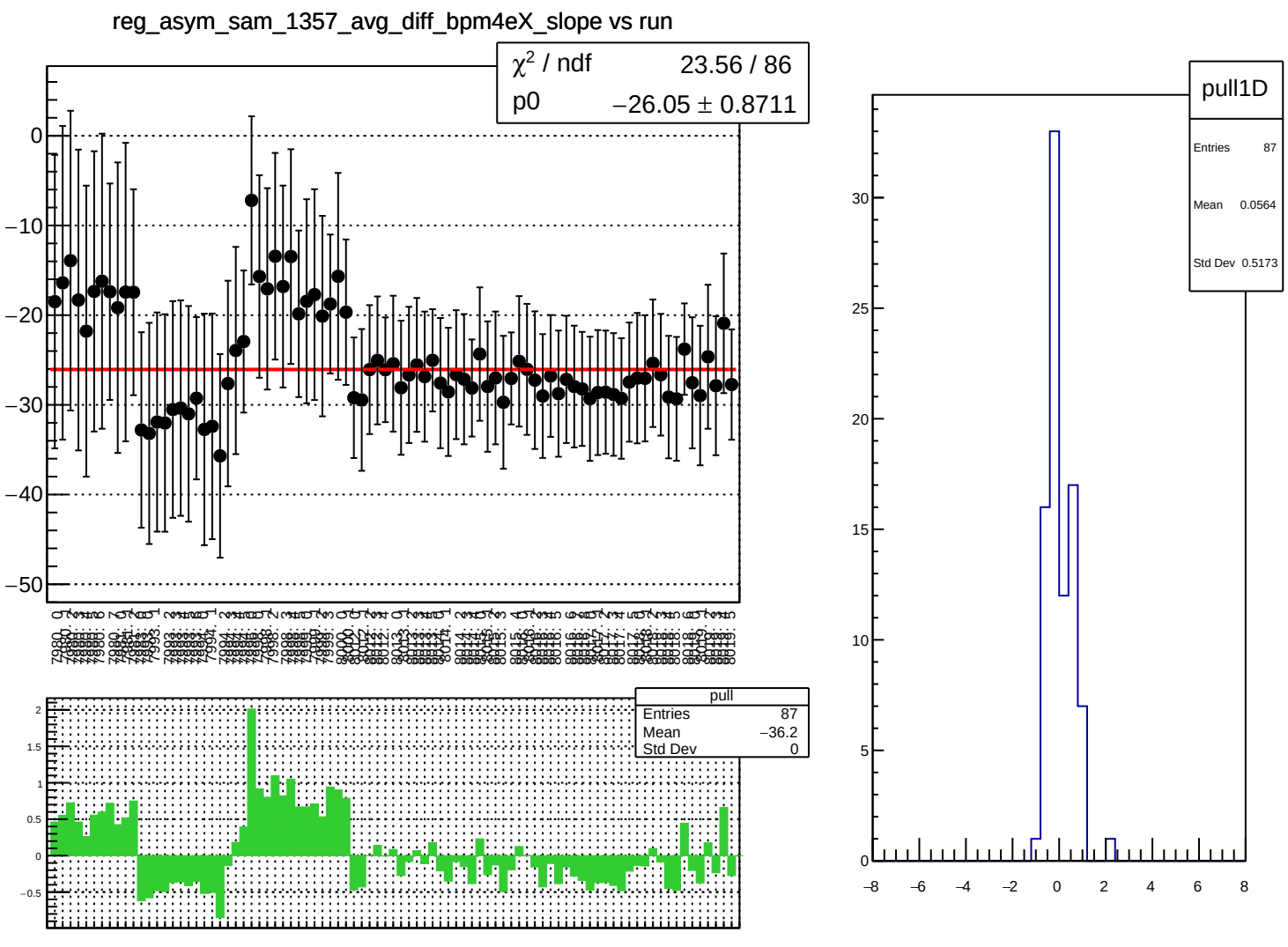

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 205.7 / 86
p0 −0.3785 ± 0.01034
0.2
0
−0.2
−0.4
−0.6
pull
Entries 87
Mean 116.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.416
Std Dev 1.48
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

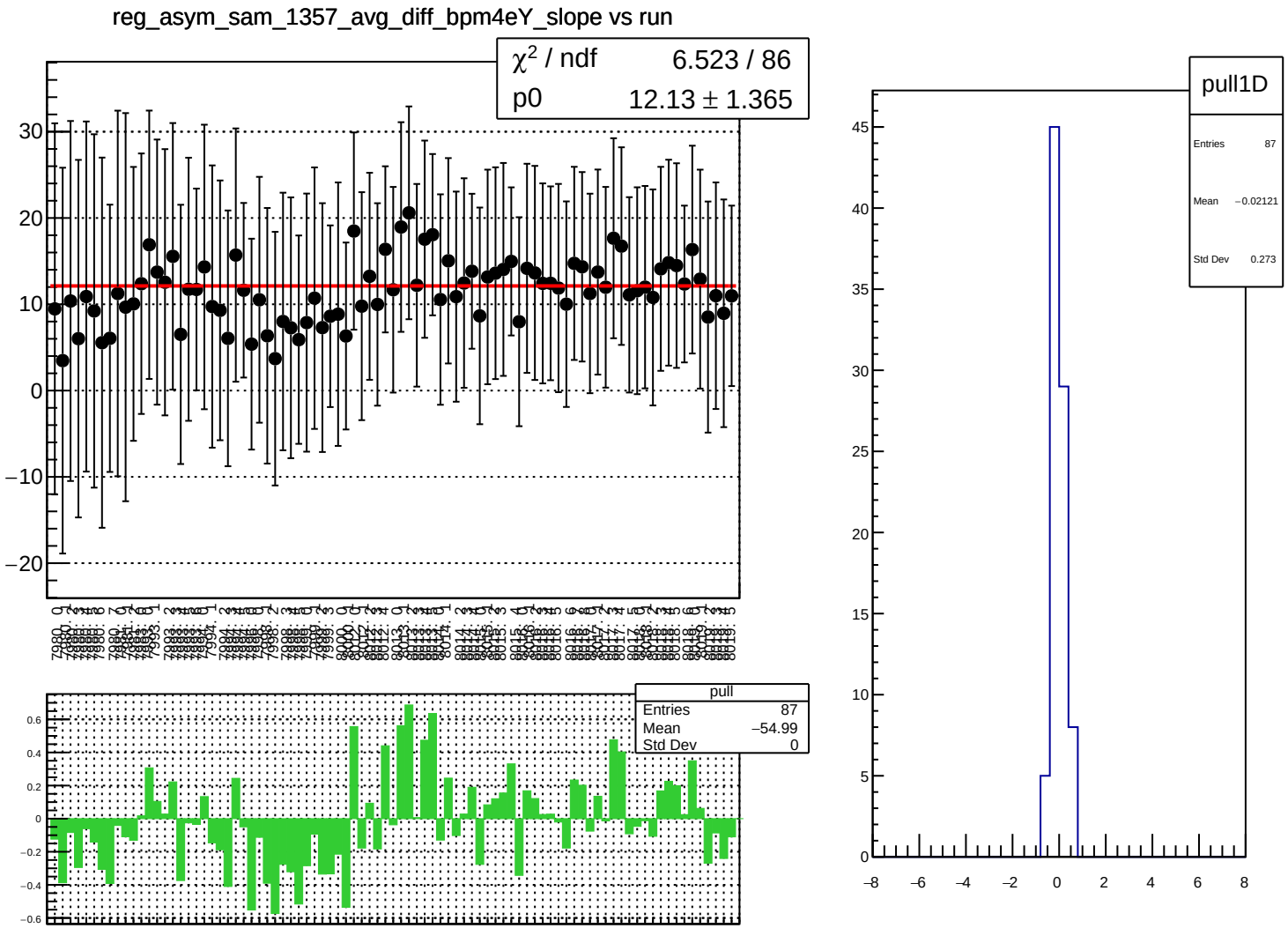

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 64.88 / 86
p0 −8.027 ± 0.8462
pull
Entries 87
Mean −23.44
Std Dev 0

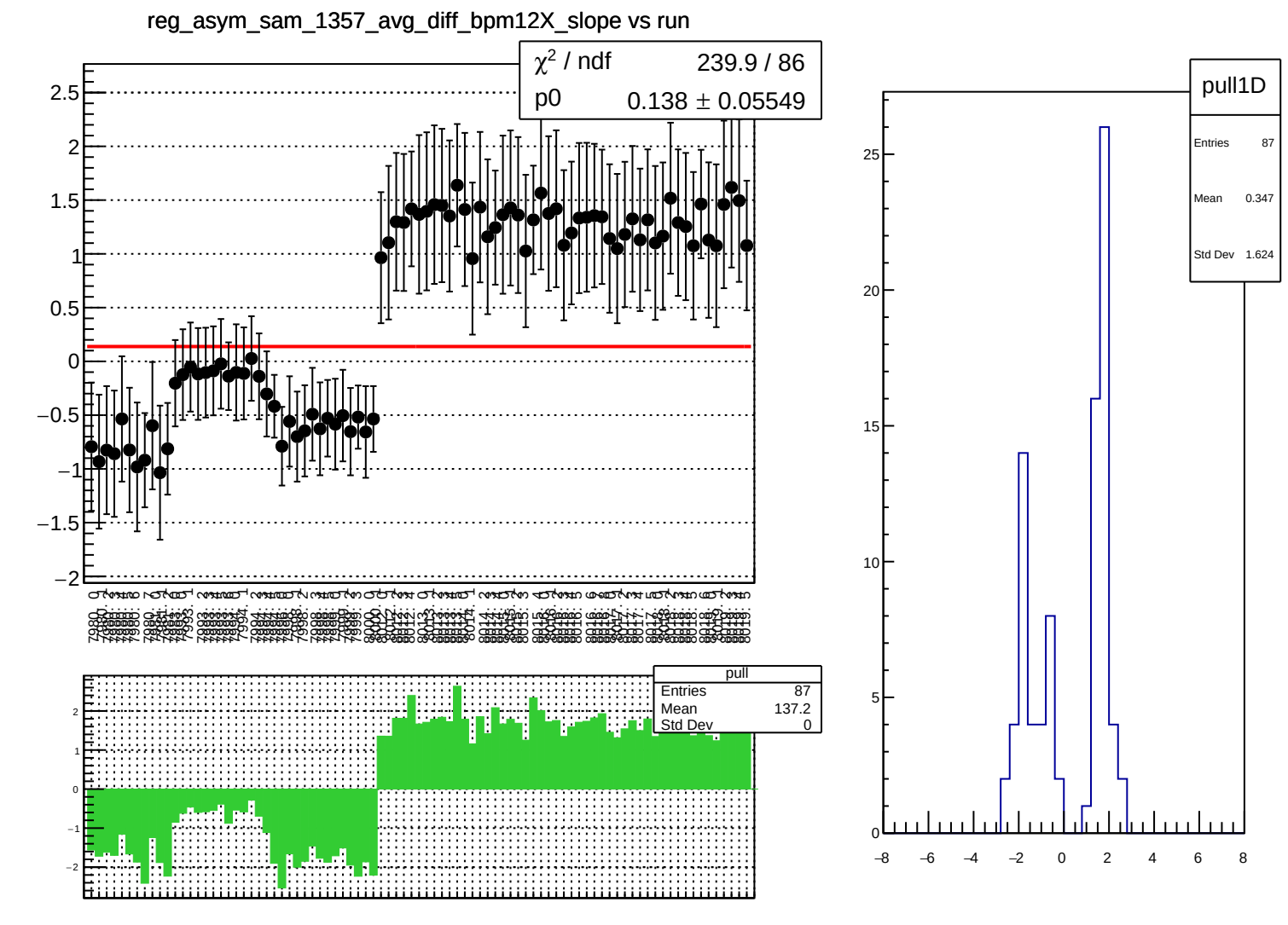

pull1D
Entries 87
Mean −0.2065
Std Dev 0.8385

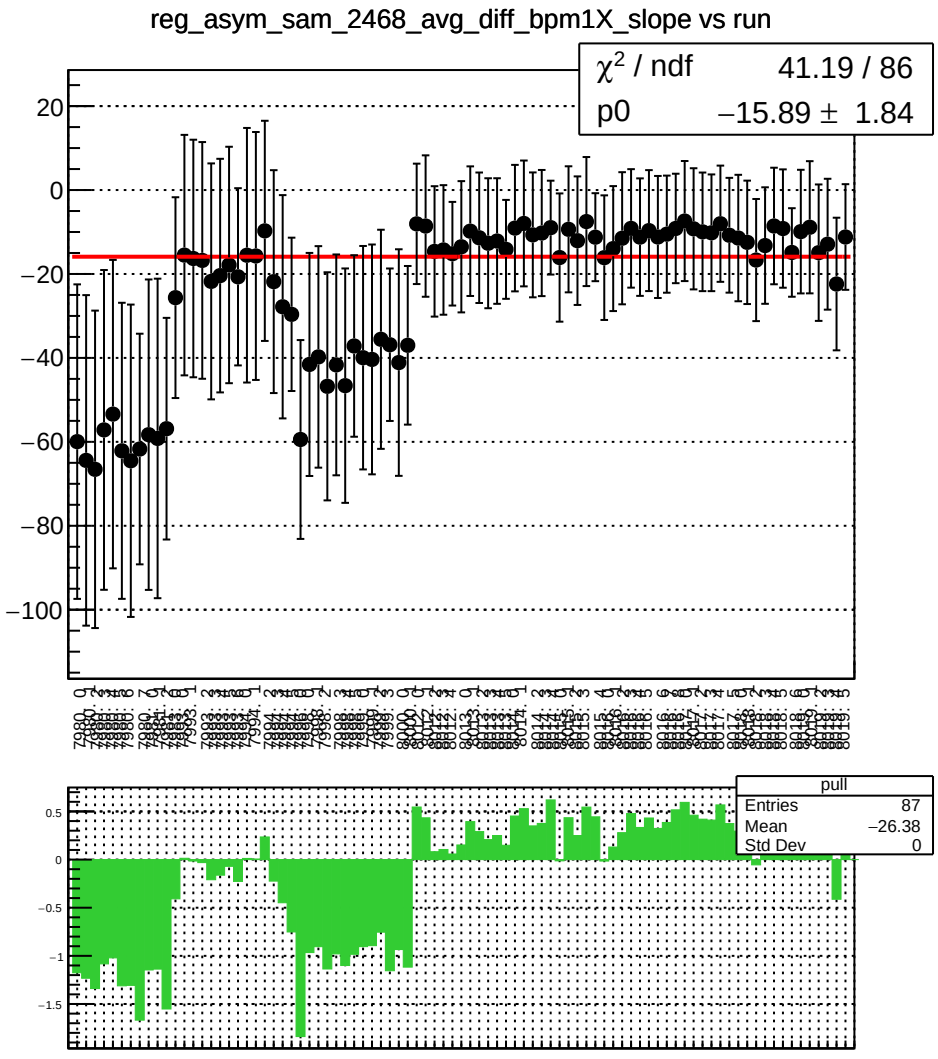

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.147 / 86
p0 15.46 ± 1.261
pull
Entries 87
Mean 34.27
Std Dev 55.04

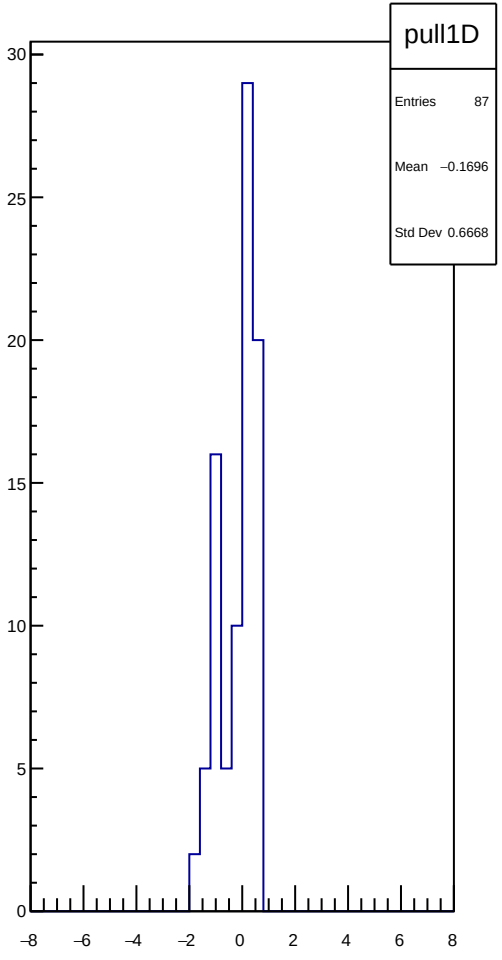

pull1D
Entries 87
Mean 0.009488
Std Dev 0.243

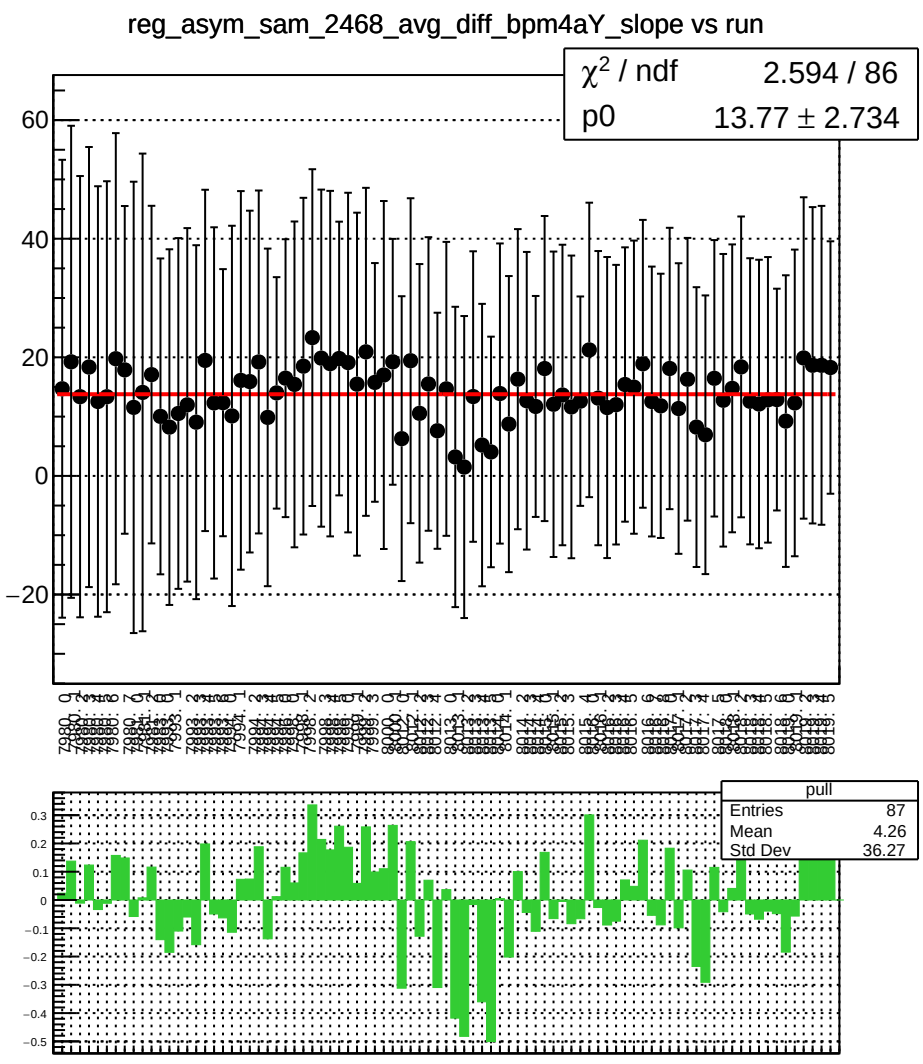

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.56 / 86
p0 −26.05 ± 0.8711
pull
Entries 87
Mean −36.2
Std Dev 0
pull1D
Entries 87
Mean 0.0564
Std Dev 0.5173

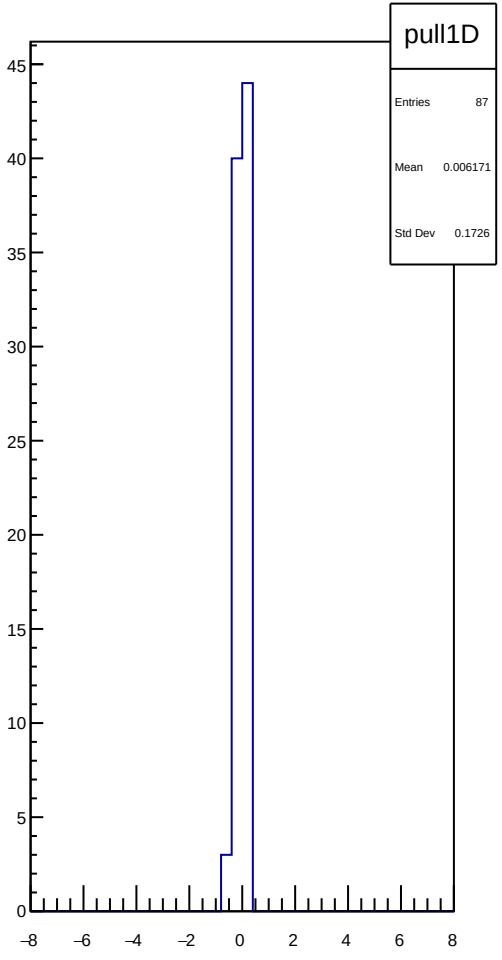

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.523 / 86
p0 12.13 ± 1.365
pull
Entries 87
Mean −54.99
Std Dev 0
pull1D
Entries 87
Mean −0.02121
Std Dev 0.273

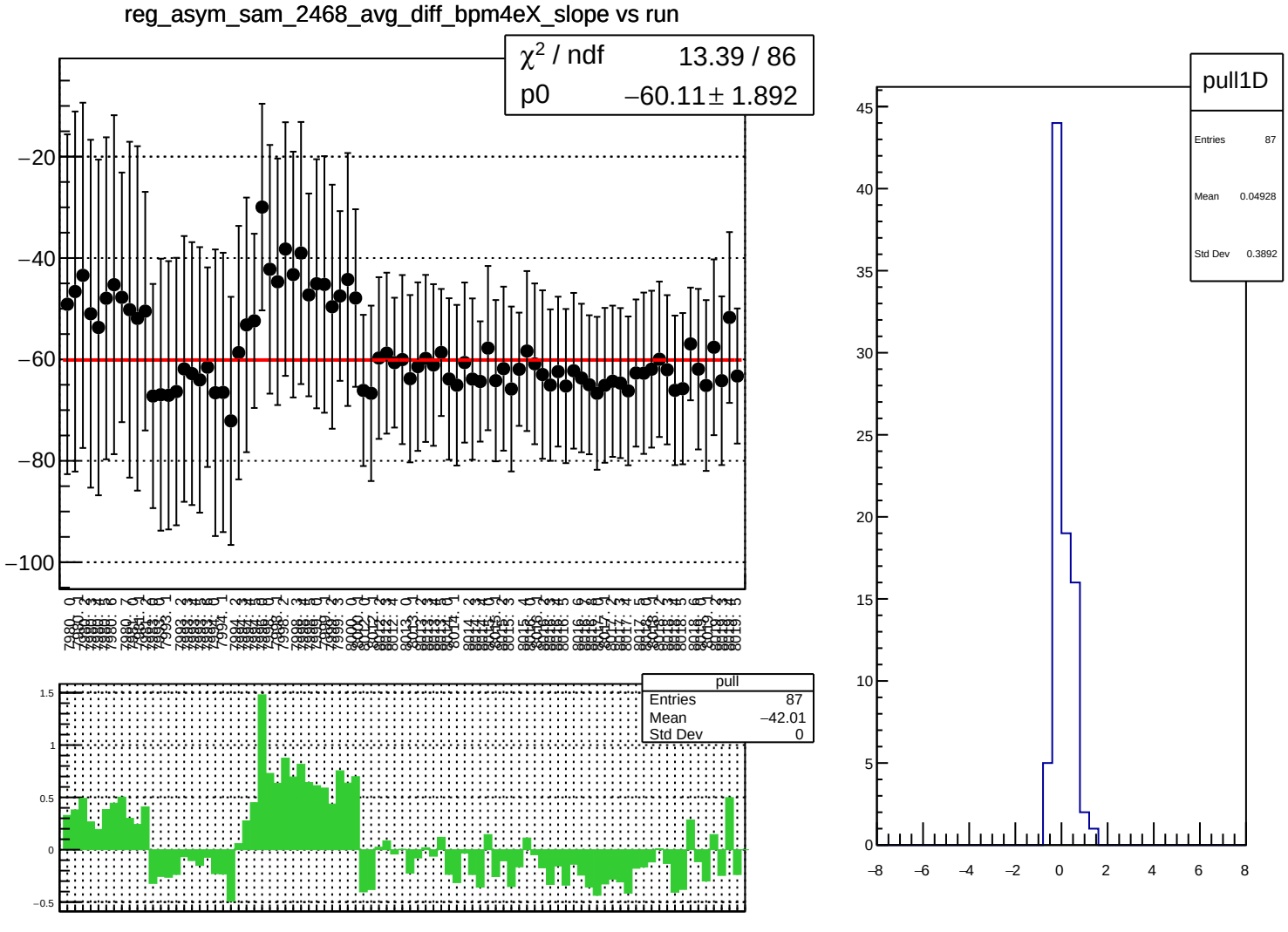

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 239.9 / 86
p0 0.138 ± 0.05549
pull
Entries 87
Mean 137.2
Std Dev 0
pull1D
Entries 87
Mean 0.347
Std Dev 1.624

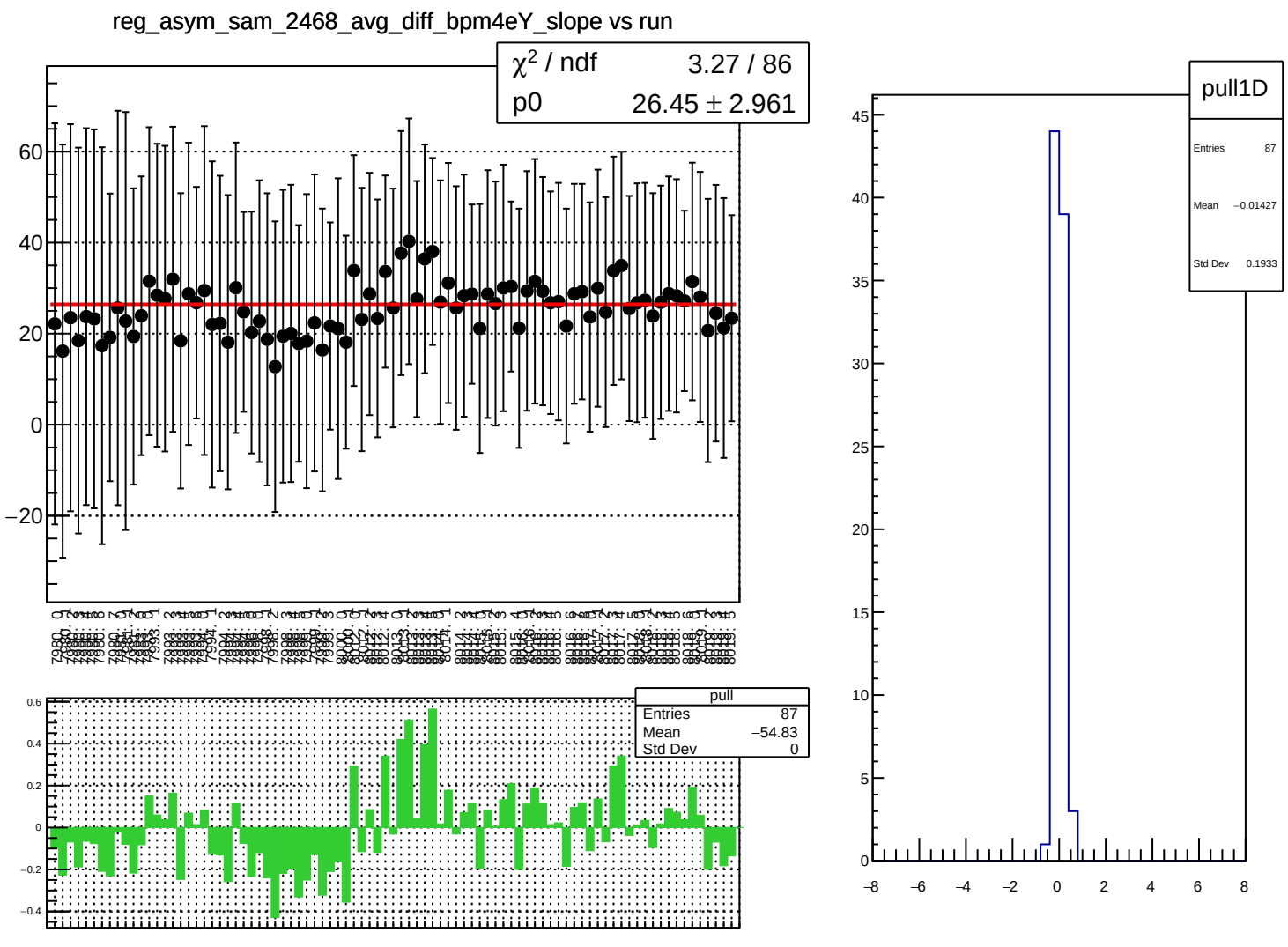

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 41.19 / 86
p0 −15.89 ± 1.84
pull
Entries 87
Mean −26.38
Std Dev 0

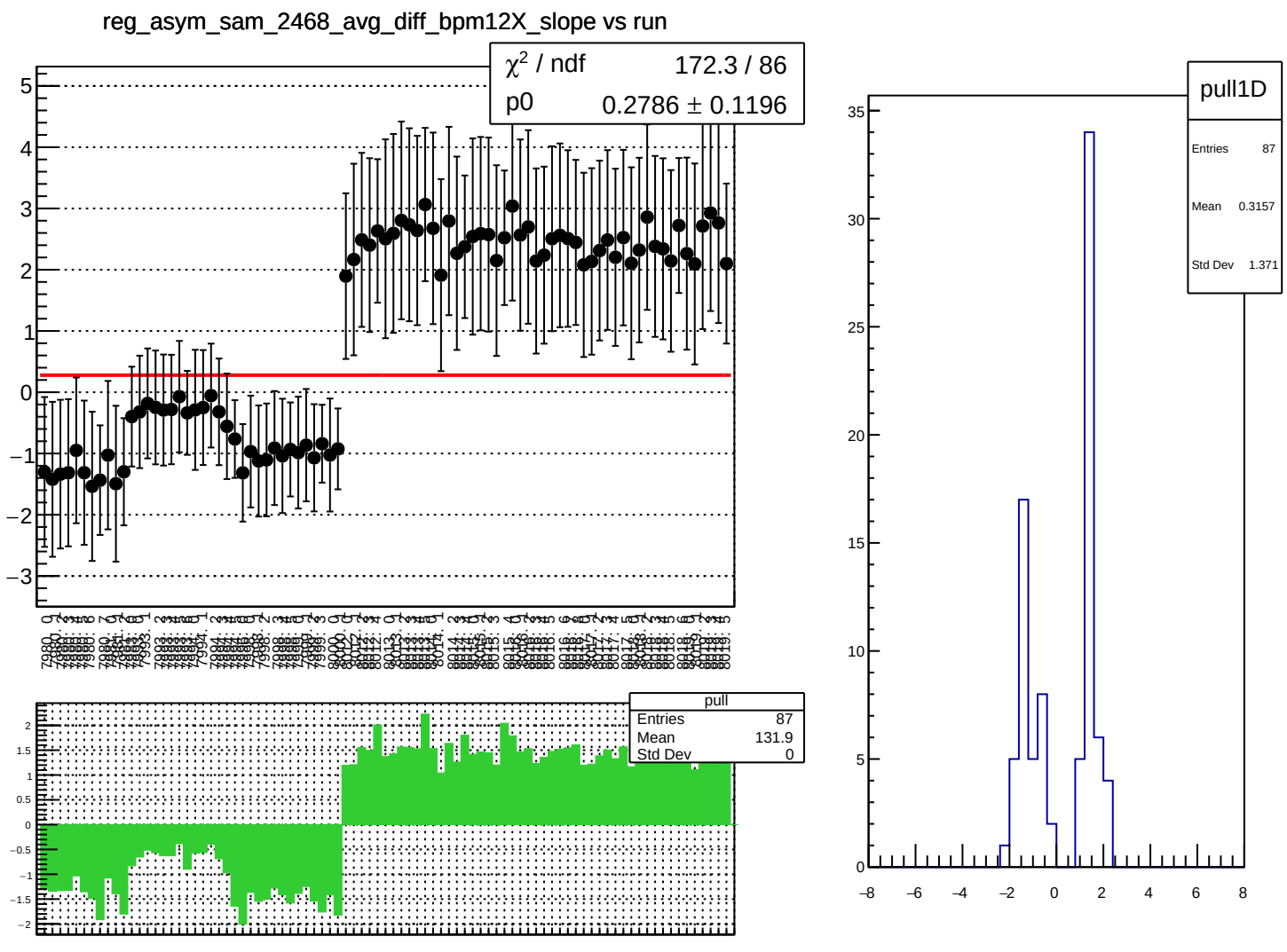

pull1D
Entries 87
Mean −0.1696
Std Dev 0.6668

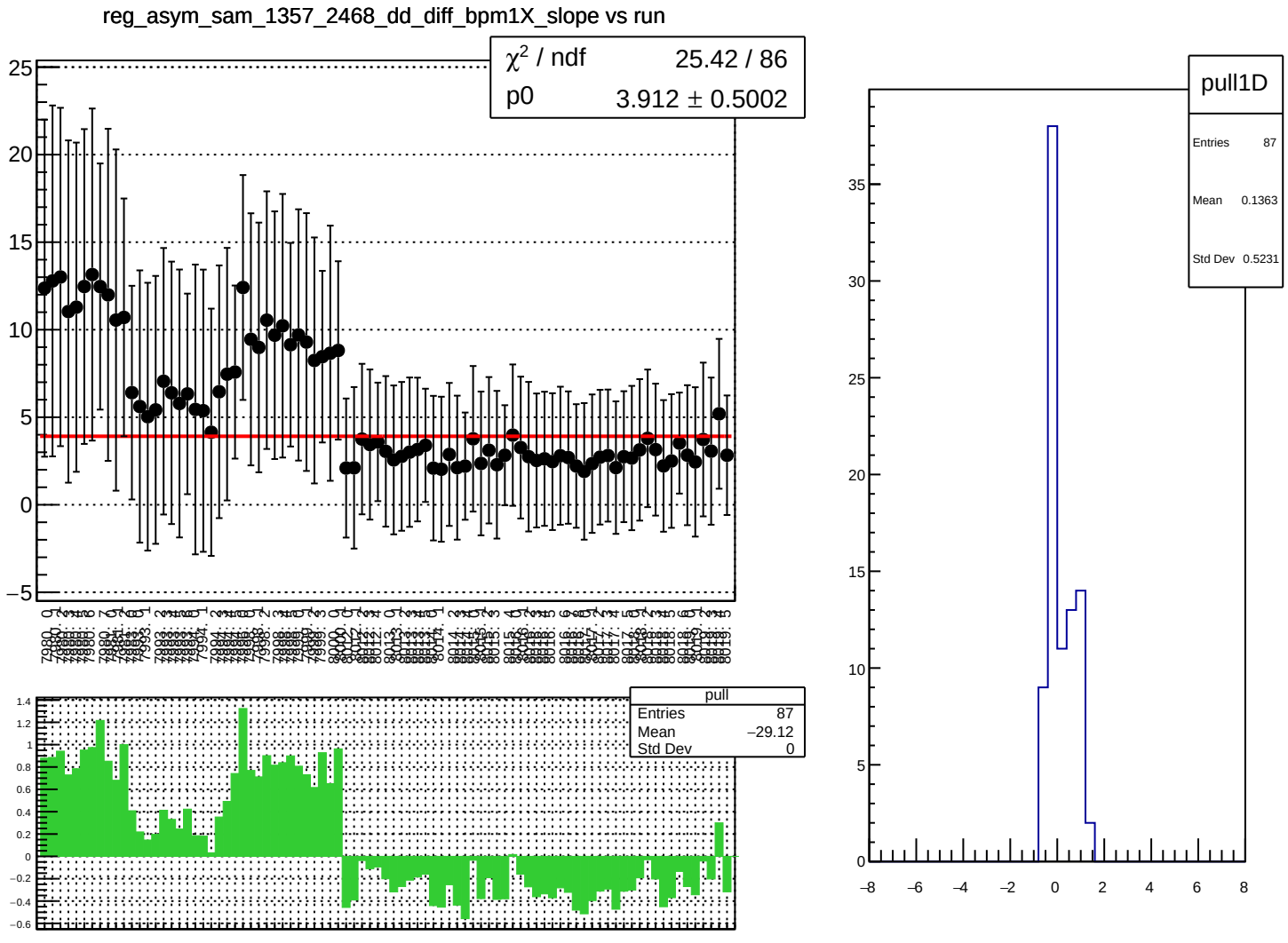

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.594 / 86
p0 13.77 ± 2.734
pull
Entries 87
Mean 4.26
Std Dev 36.27

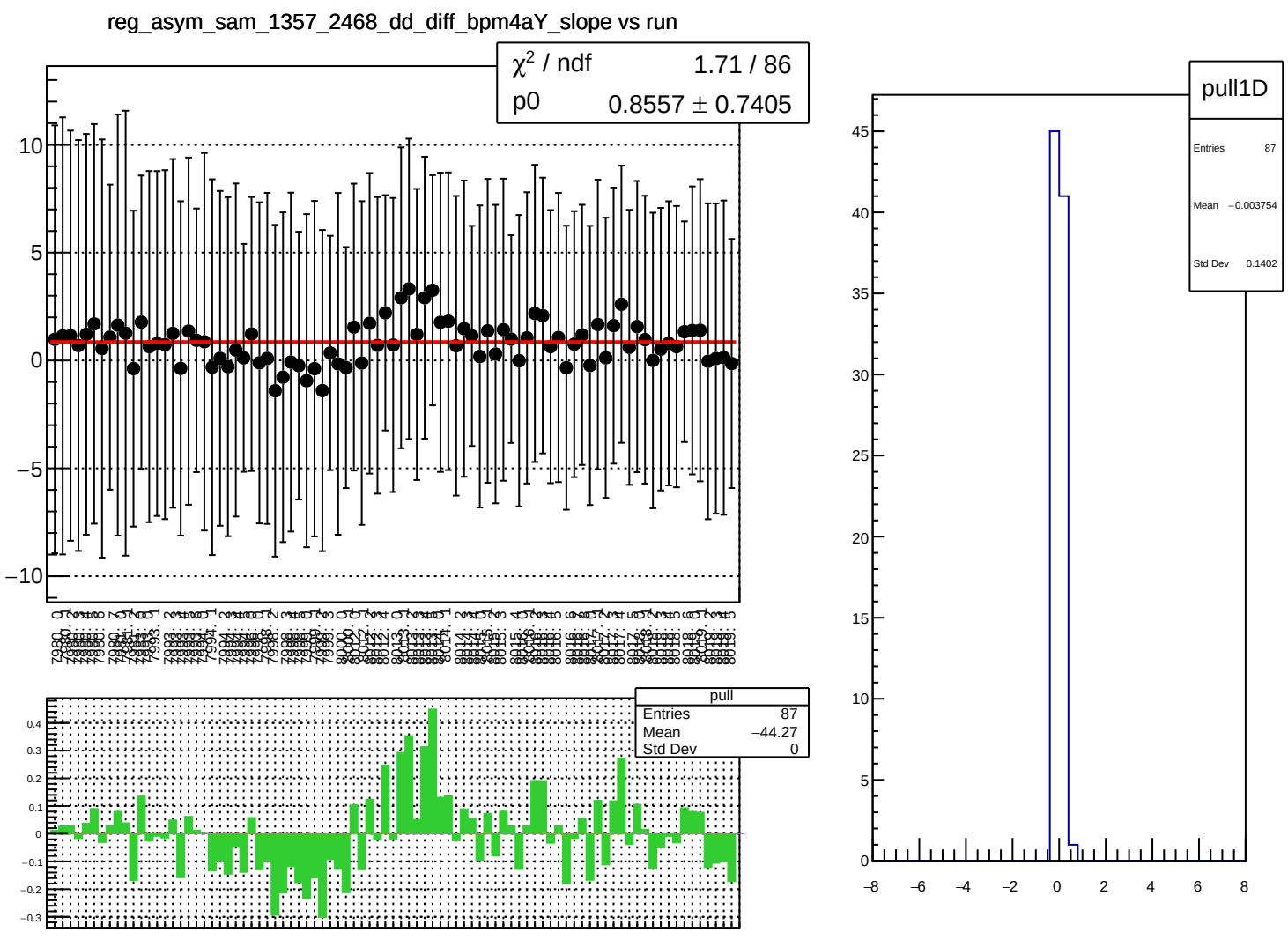

pull1D
Entries 87
Mean 0.006171
Std Dev 0.1726

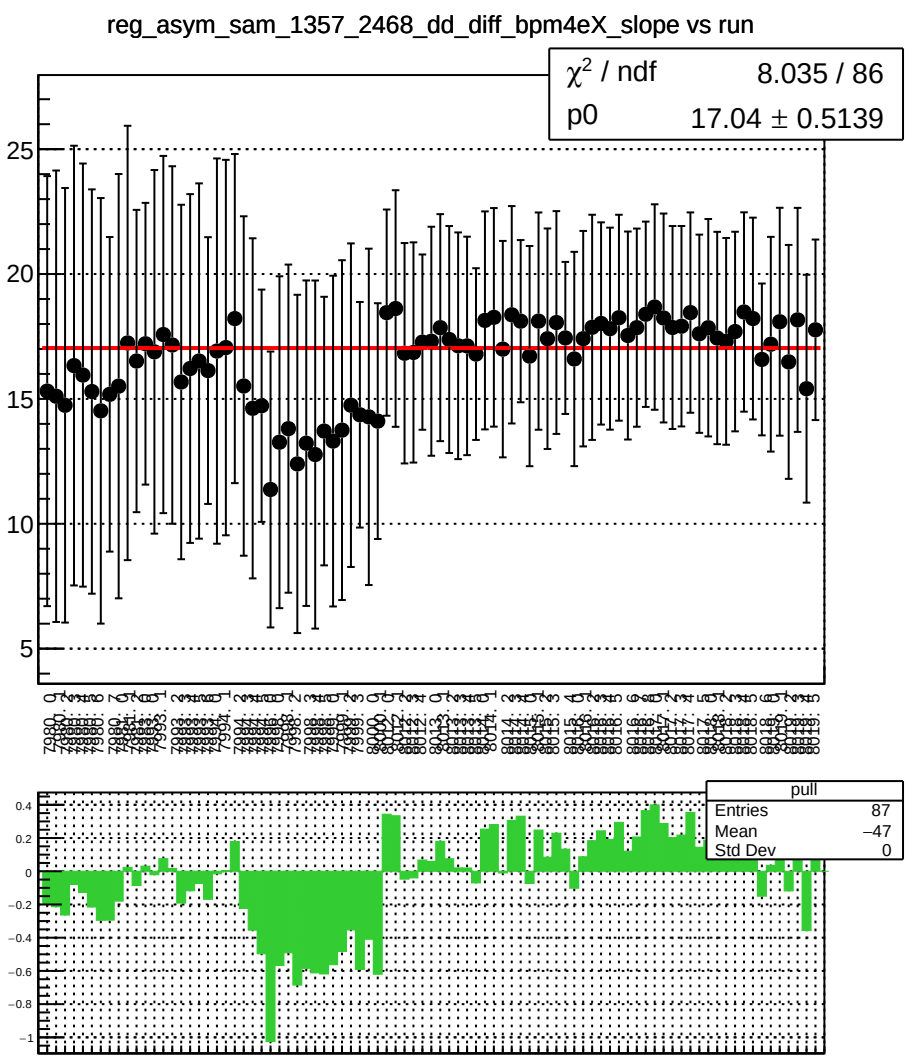

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.39 / 86
p0 −60.11 ± 1.892
pull
Entries 87
Mean −42.01
Std Dev 0
pull1D
Entries 87
Mean 0.04928
Std Dev 0.3892

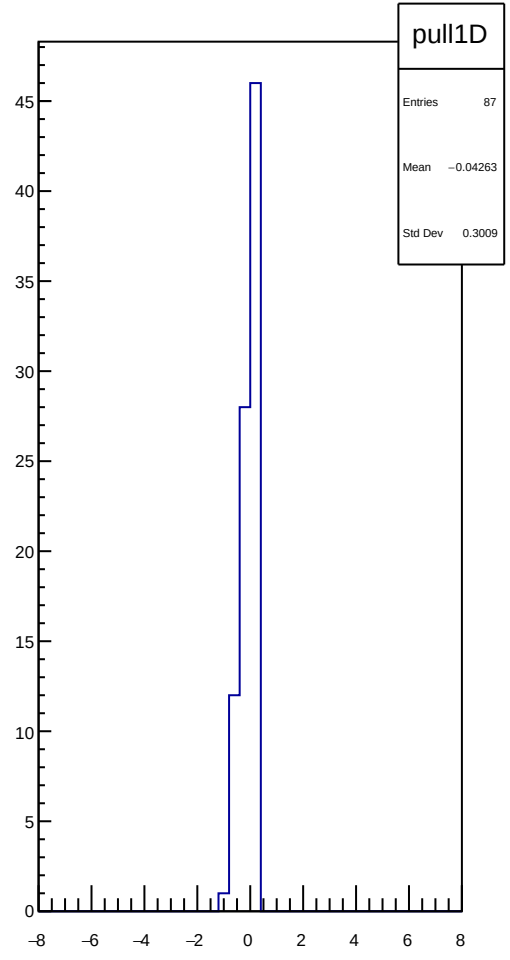

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.27 / 86
p0 26.45 ± 2.961
pull
Entries 87
Mean −54.83
Std Dev 0
pull1D
Entries 87
Mean −0.01427
Std Dev 0.1933

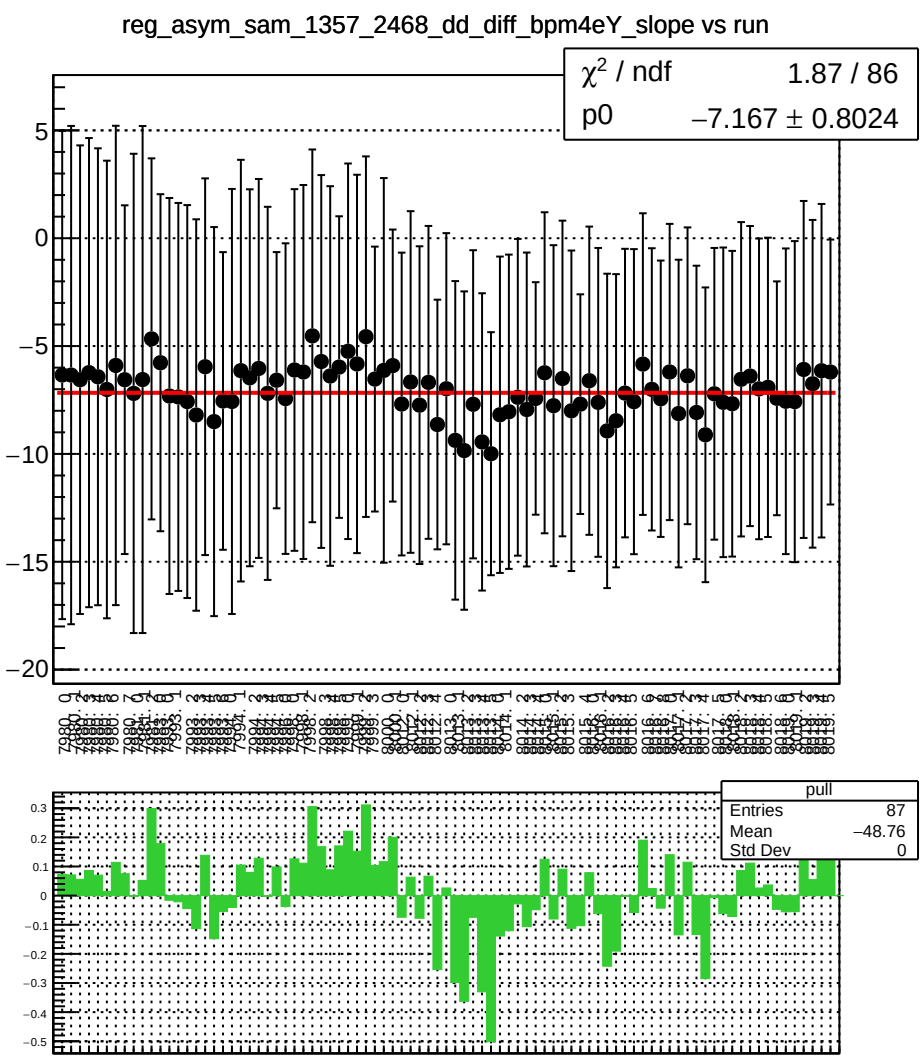

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 172.3 / 86
p0 0.2786 ± 0.1196
pull
Entries 87
Mean 131.9
Std Dev 0
pull1D
Entries 87
Mean 0.3157
Std Dev 1.371

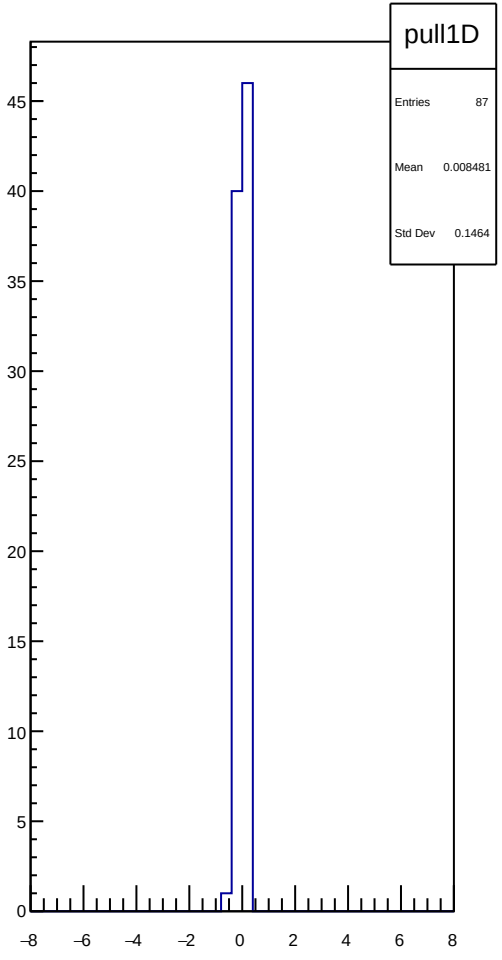

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 25.42 / 86
p0 3.912 ± 0.5002
pull
Entries 87
Mean −29.12
Std Dev 0
pull1D
Entries 87
Mean 0.1363
Std Dev 0.5231

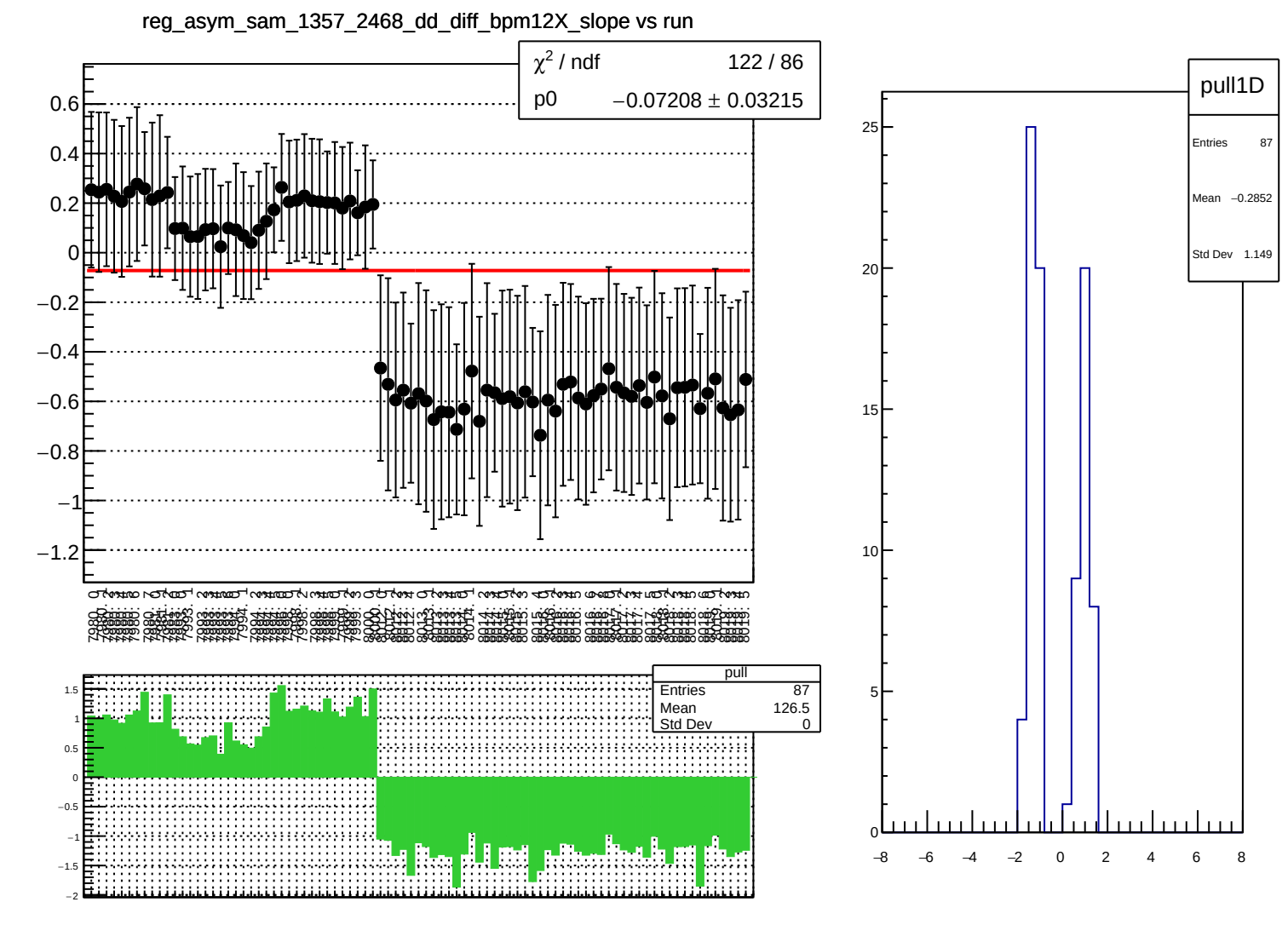

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.71 / 86
p0 0.8557 ± 0.7405
pull
Entries 87
Mean −44.27
Std Dev 0
pull1D
Entries 87
Mean −0.003754
Std Dev 0.1402

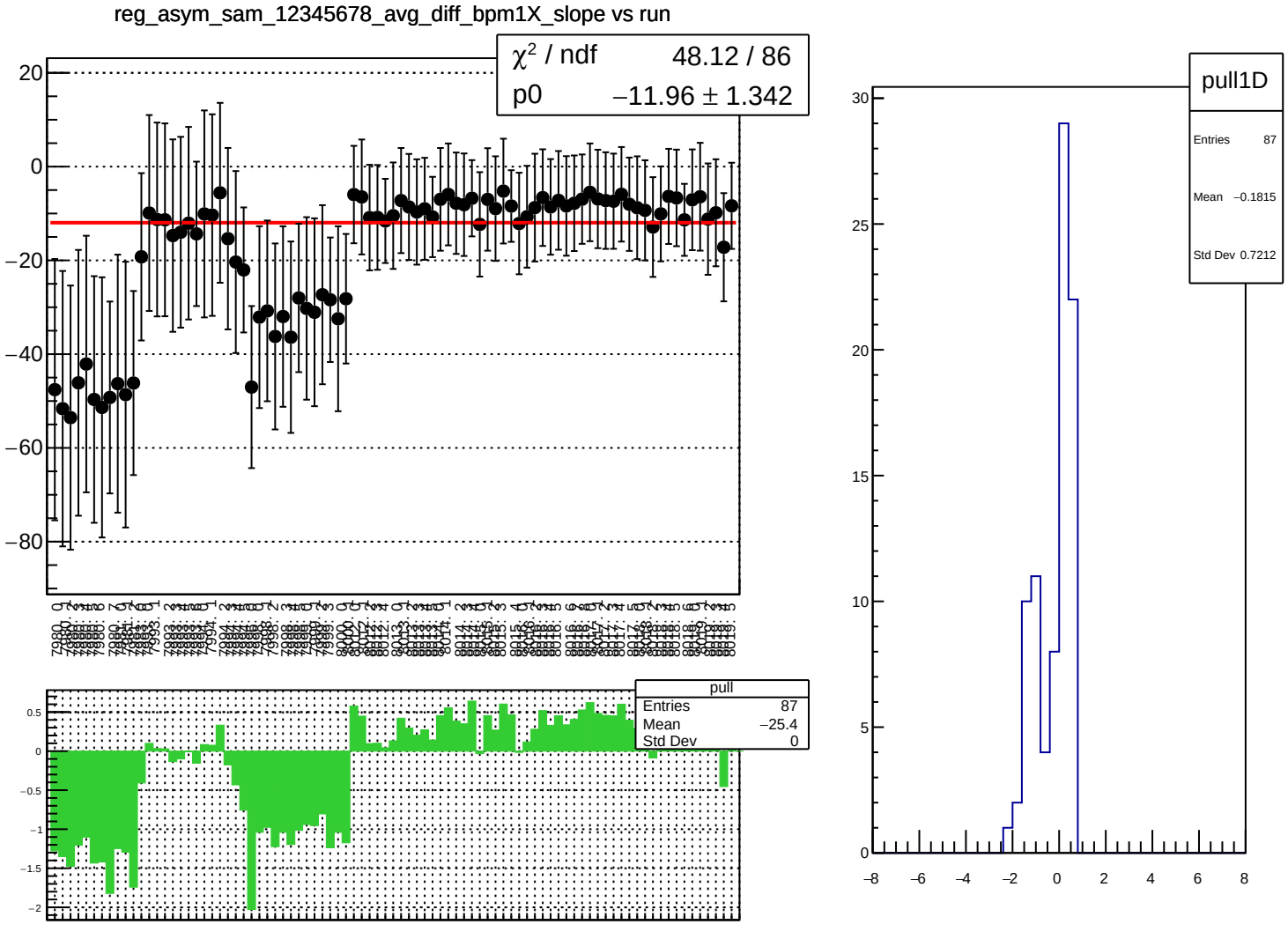

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.035 / 86
p0 17.04 ± 0.5139
pull
Entries 87
Mean −47
Std Dev 0

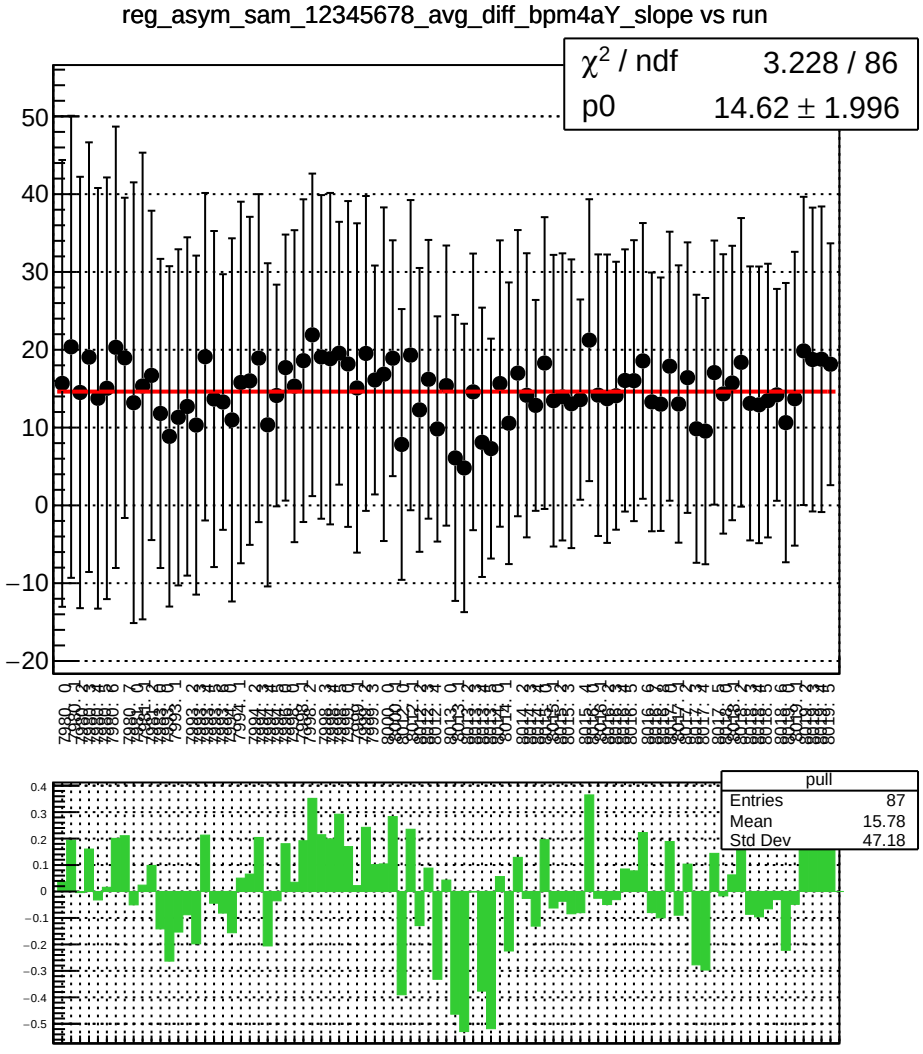

pull1D
Entries 87
Mean −0.04263
Std Dev 0.3009

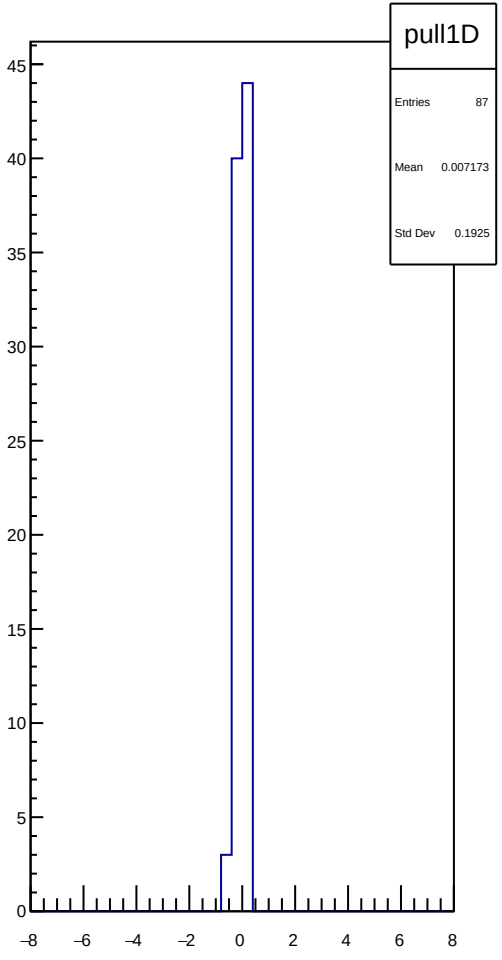

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.87 / 86
p0 −7.167 ± 0.8024
pull
Entries 87
Mean −48.76
Std Dev 0

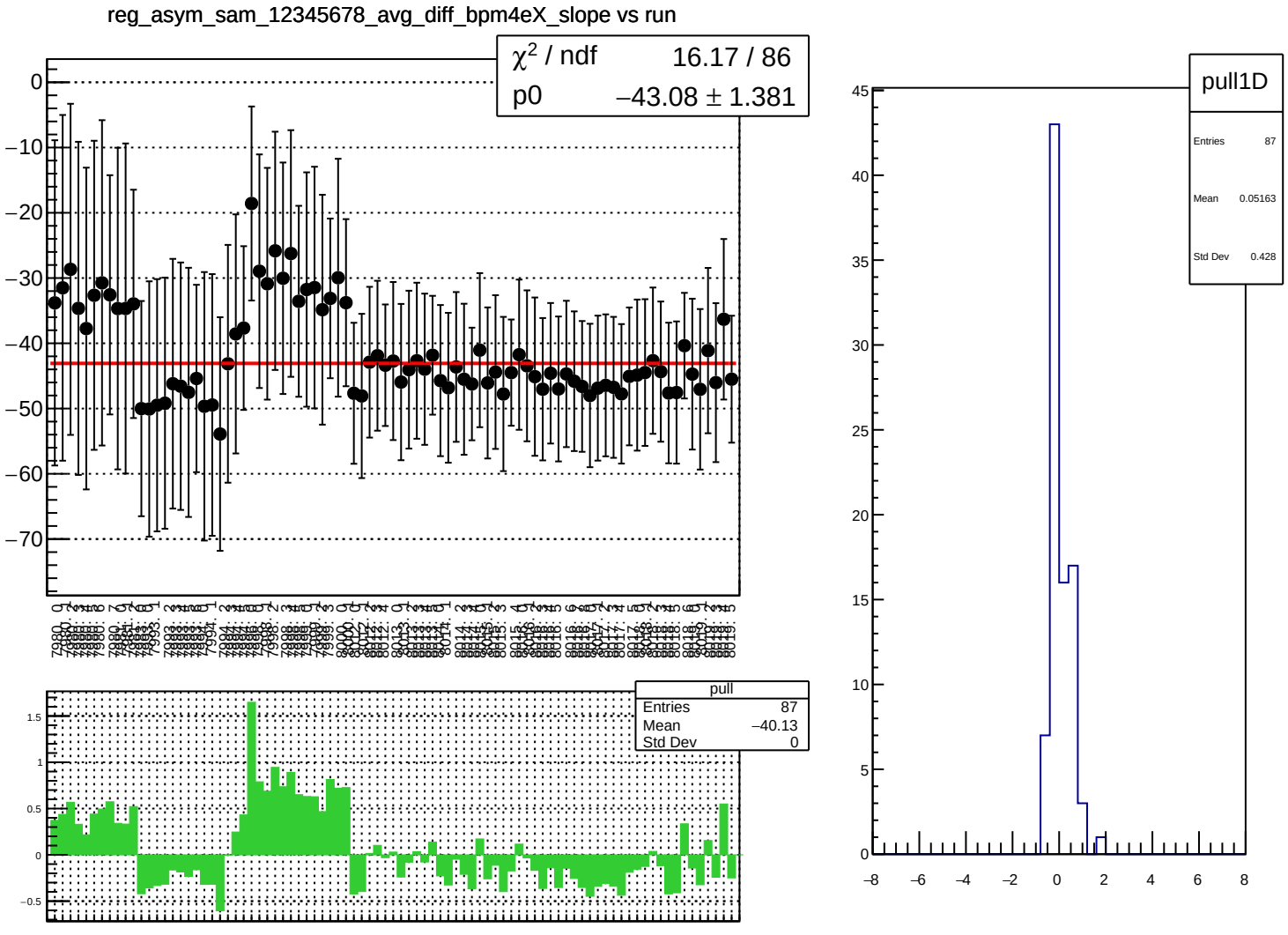

pull1D
Entries 87
Mean 0.008481
Std Dev 0.1464

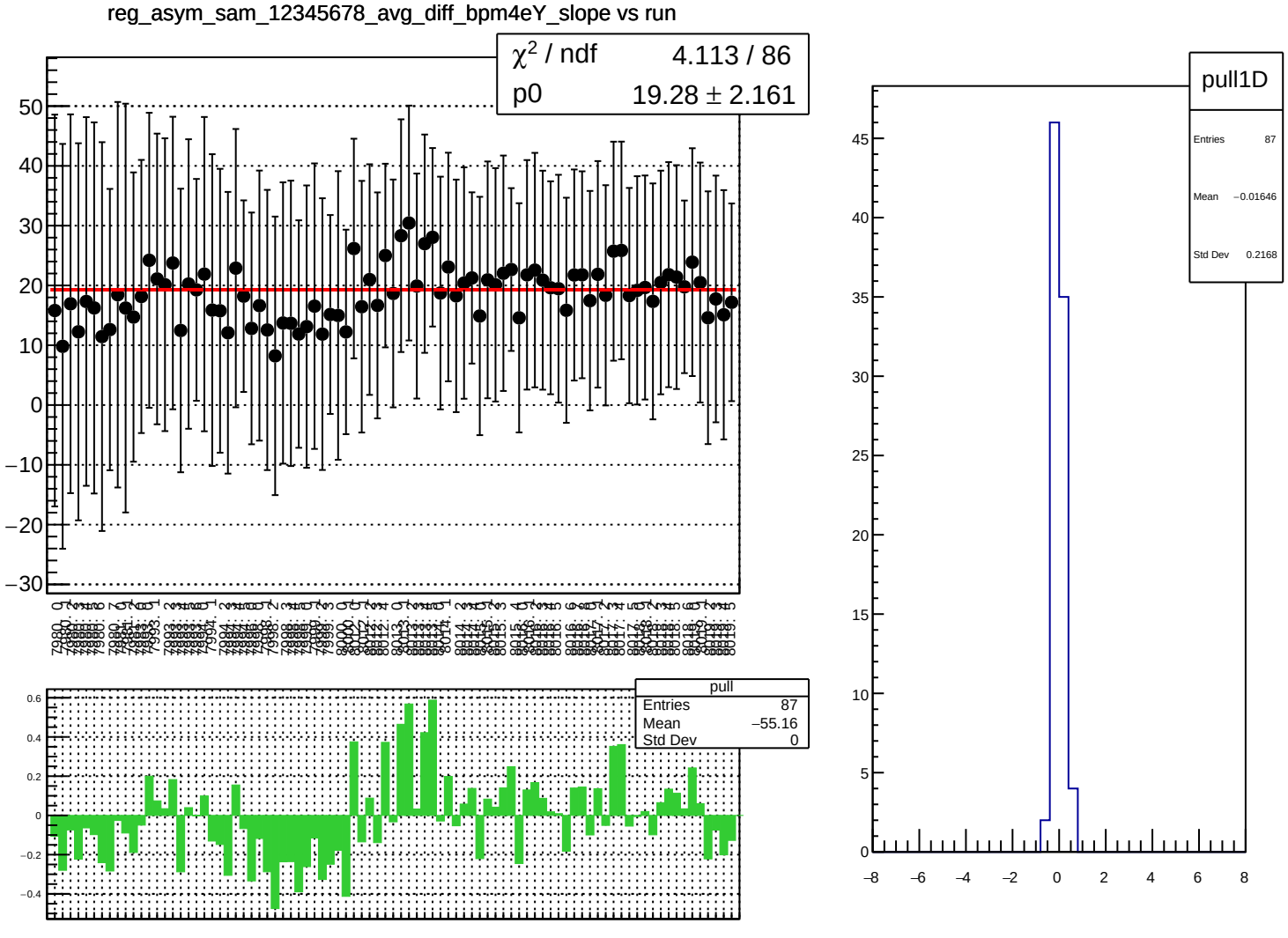

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 122 / 86
p0 −0.07208 ± 0.03215
pull
Entries 87
Mean 126.5
Std Dev 0
pull1D
Entries 87
Mean −0.2852
Std Dev 1.149

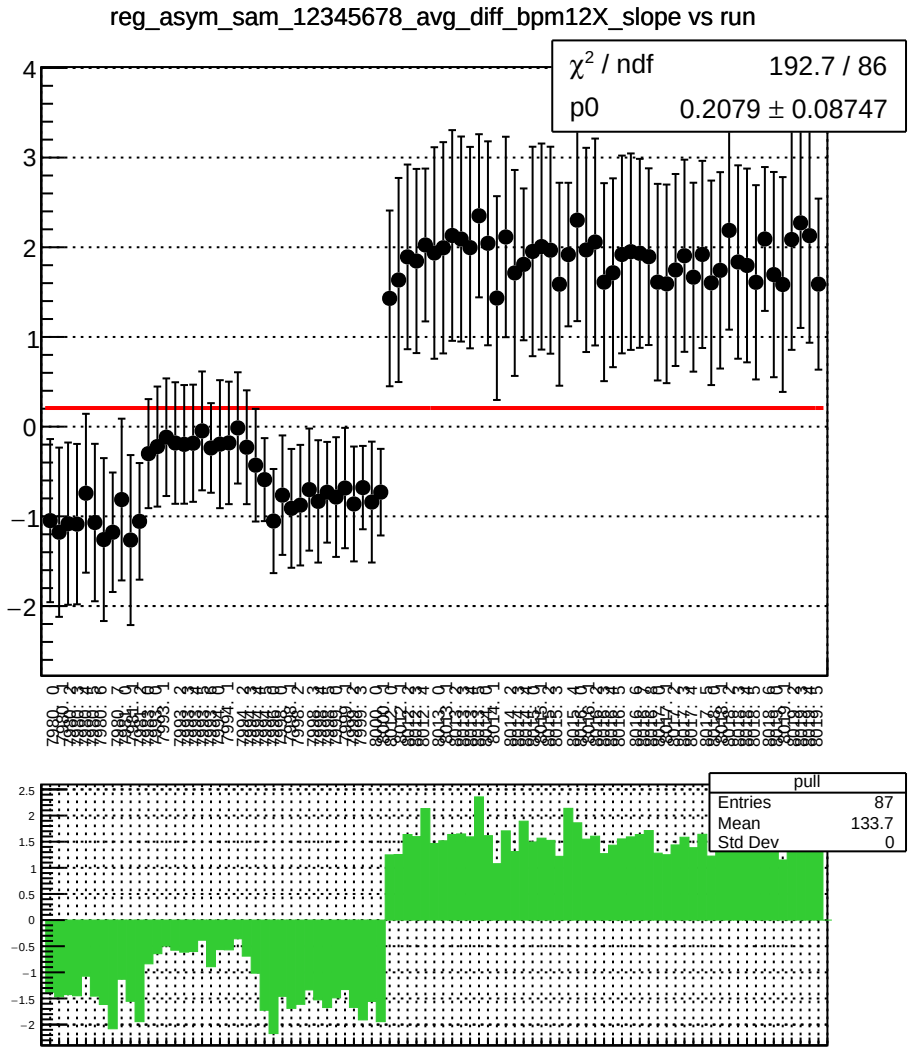

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 48.12 / 86
p0 −11.96 ± 1.342
pull
Entries 87
Mean −25.4
Std Dev 0
pull1D
Entries 87
Mean −0.1815
Std Dev 0.7212

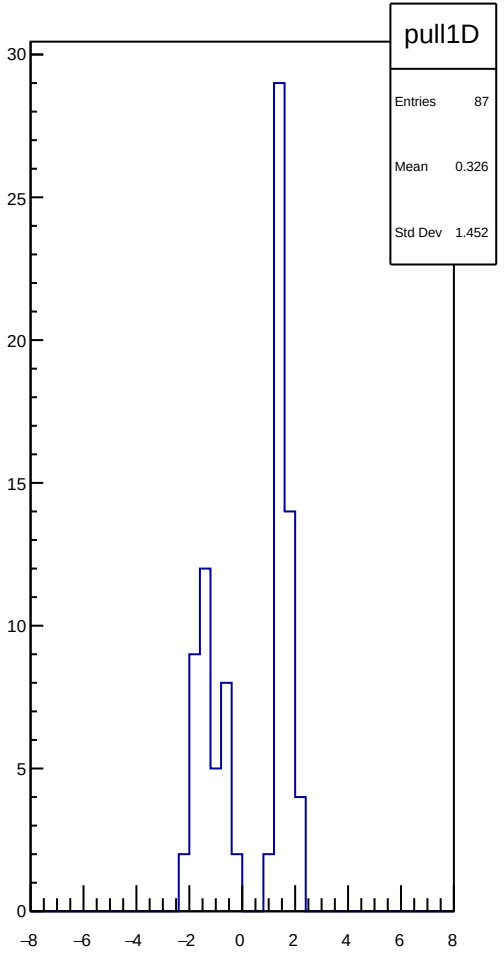

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.228 / 86
p0 14.62 ± 1.996
pull
Entries 87
Mean 15.78
Std Dev 47.18

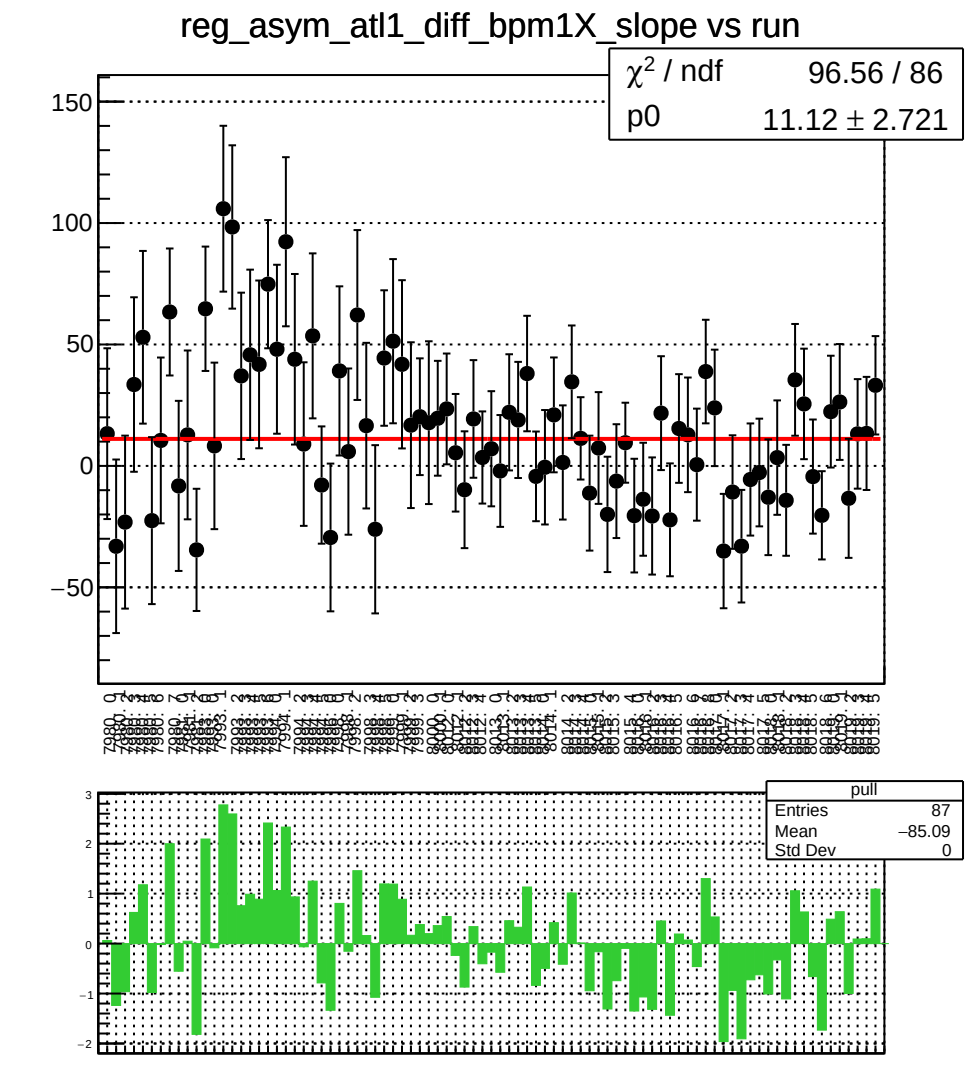

pull1D
Entries 87
Mean 0.007173
Std Dev 0.1925

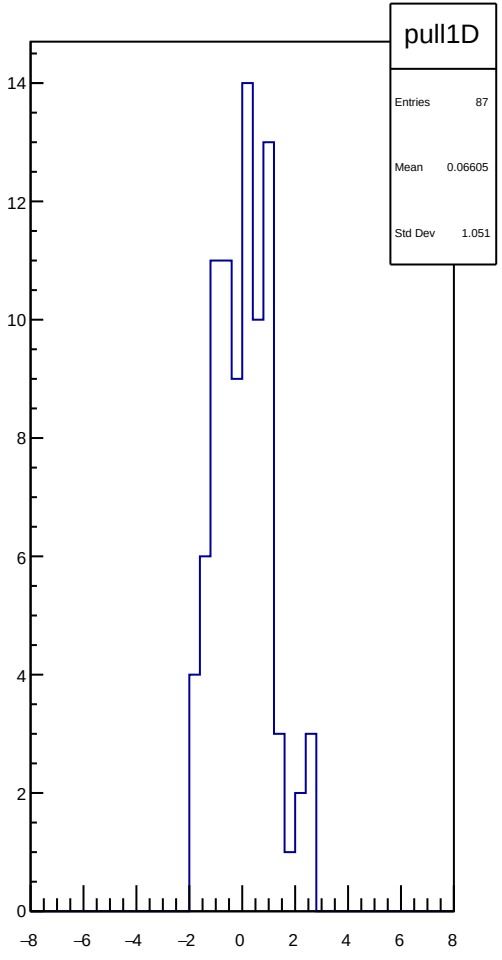

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.17 / 86
p0 −43.08 ± 1.381
pull
Entries 87
Mean −40.13
Std Dev 0
pull1D
Entries 87
Mean 0.05163
Std Dev 0.428

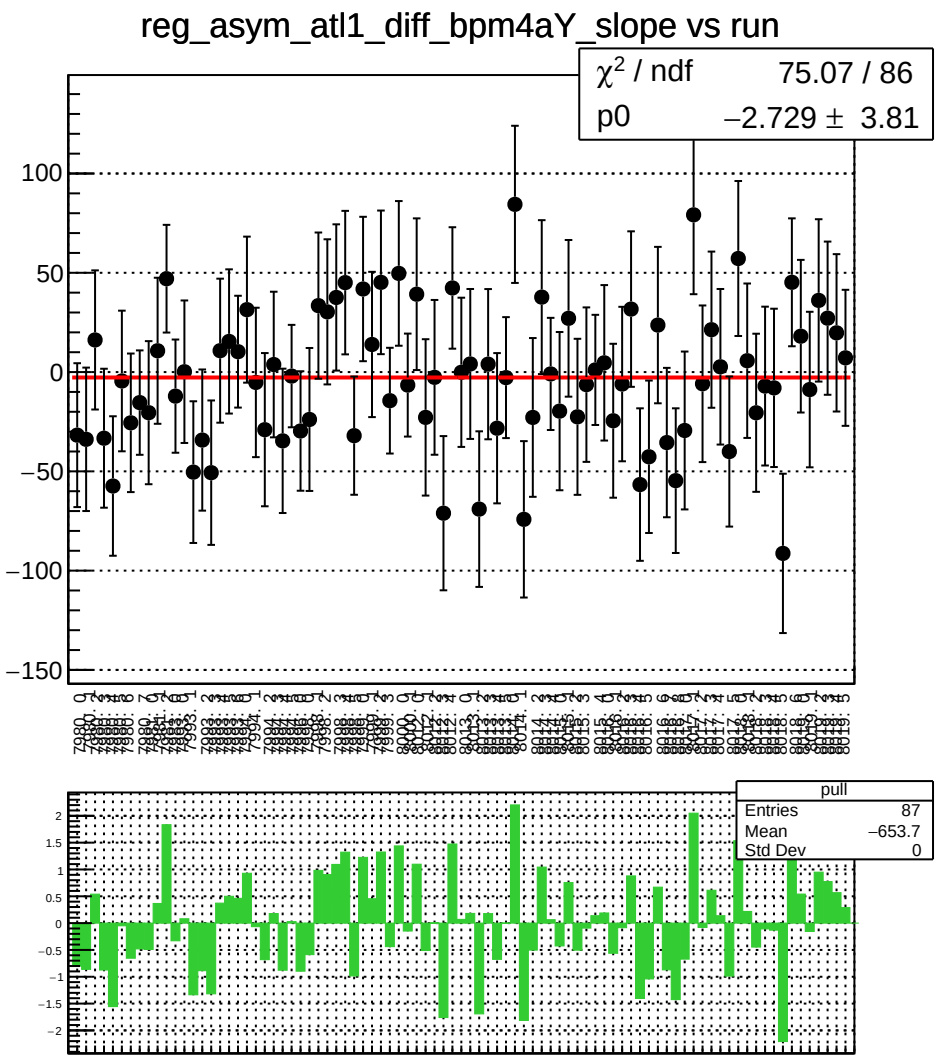

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.113 / 86
p0 19.28 ± 2.161
pull
Entries 87
Mean −55.16
Std Dev 0
pull1D
Entries 87
Mean −0.01646
Std Dev 0.2168

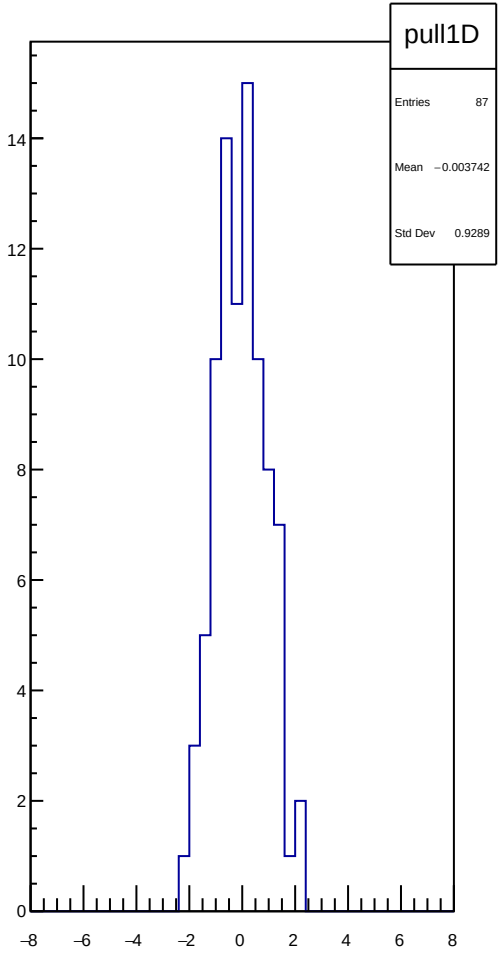

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 192.7 / 86
p0 0.2079 ± 0.08747
pull
Entries 87
Mean 133.7
Std Dev 0

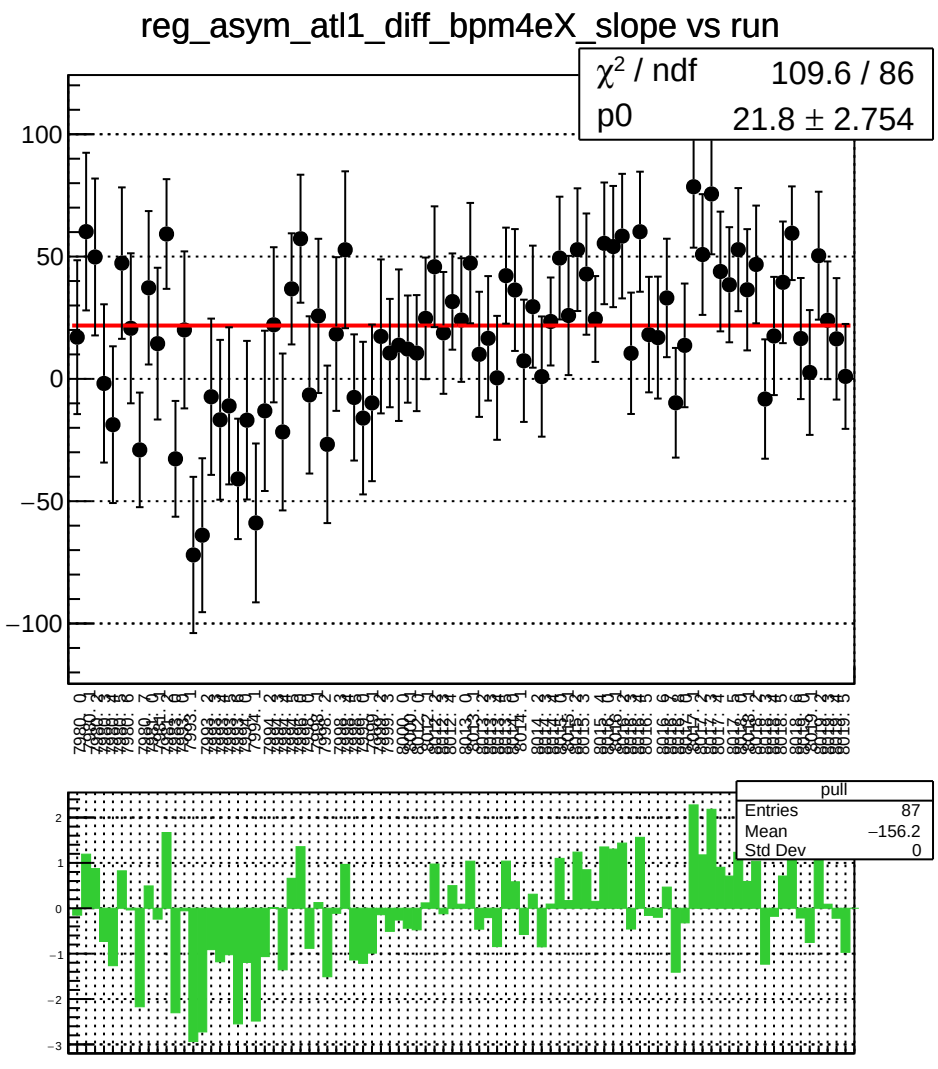

pull1D
Entries 87
Mean 0.326
Std Dev 1.452

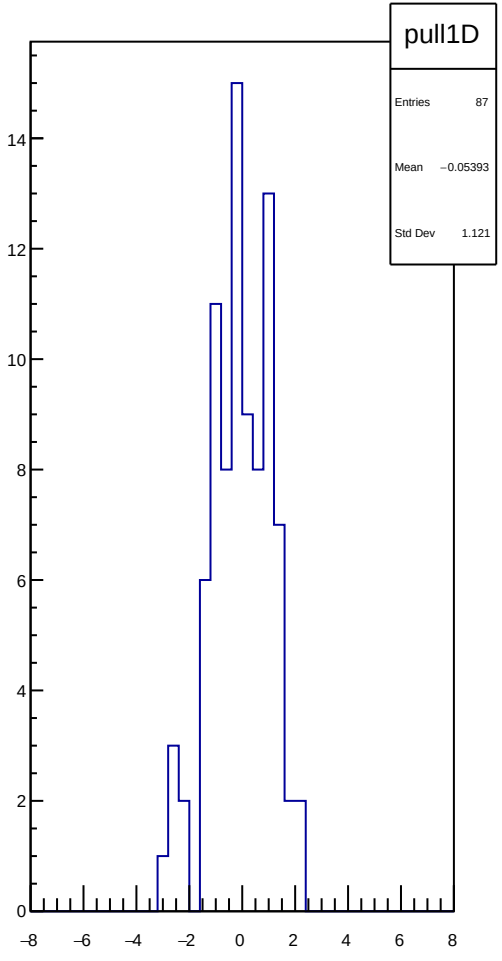

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 96.56 / 86
p0 11.12 ± 2.721
150
100
50
0
−50
pull
Entries 87
Mean −85.09
Std Dev 0
3
2
1
0
−1
−2

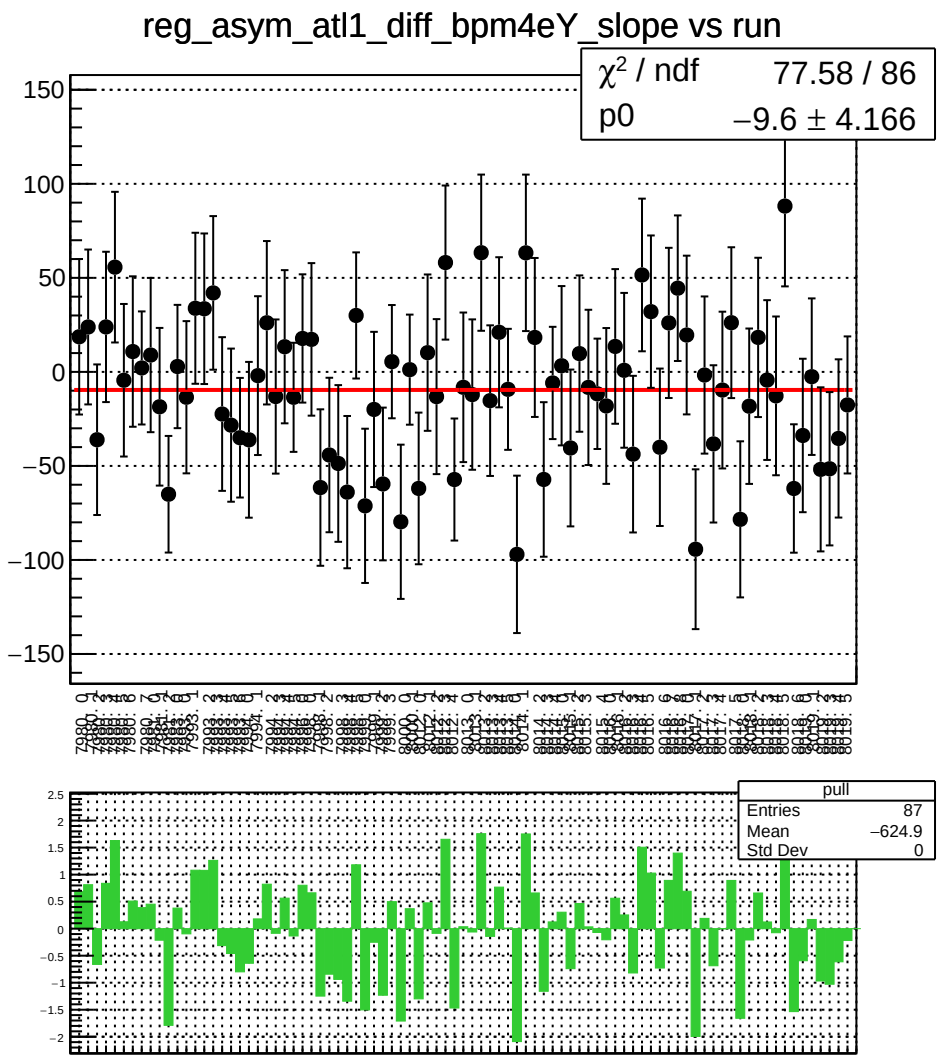

pull1D
Entries 87
Mean 0.06605
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

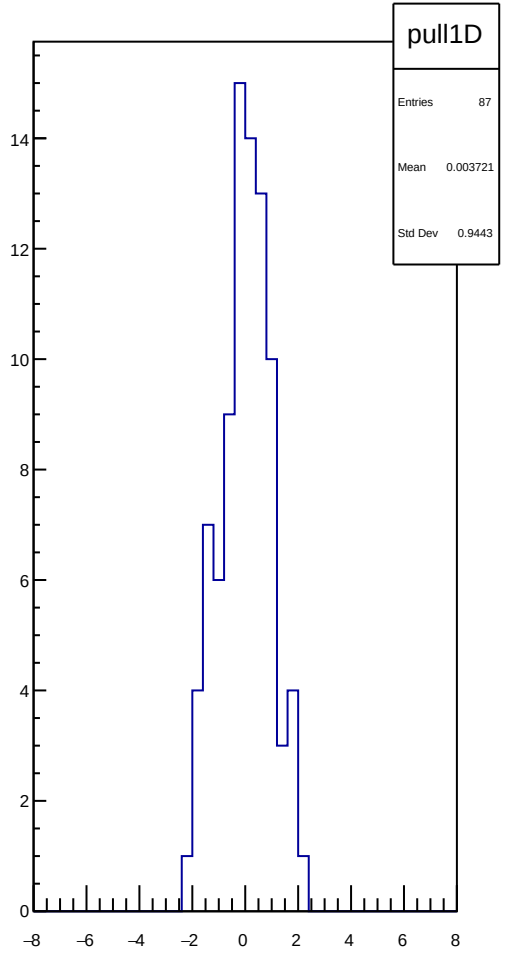

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 75.07 / 86
p0 −2.729 ± 3.81
pull
Entries 87
Mean −653.7
Std Dev 0

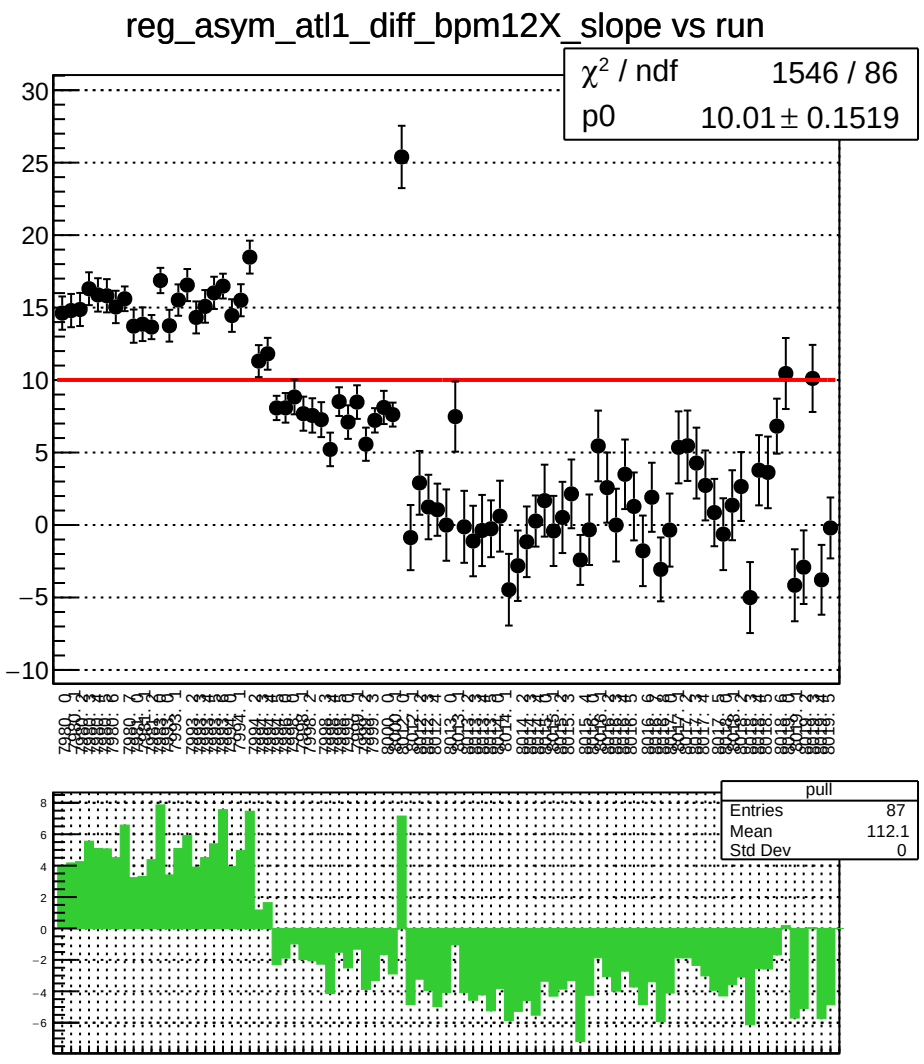

pull1D
Entries 87
Mean −0.003742
Std Dev 0.9289

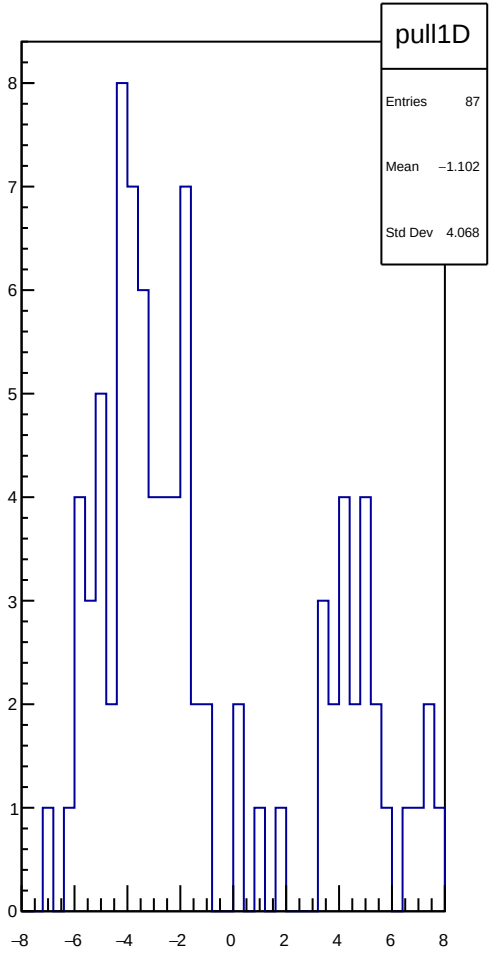

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 109.6 / 86
p0 21.8 ± 2.754
pull
Entries 87
Mean −156.2
Std Dev 0

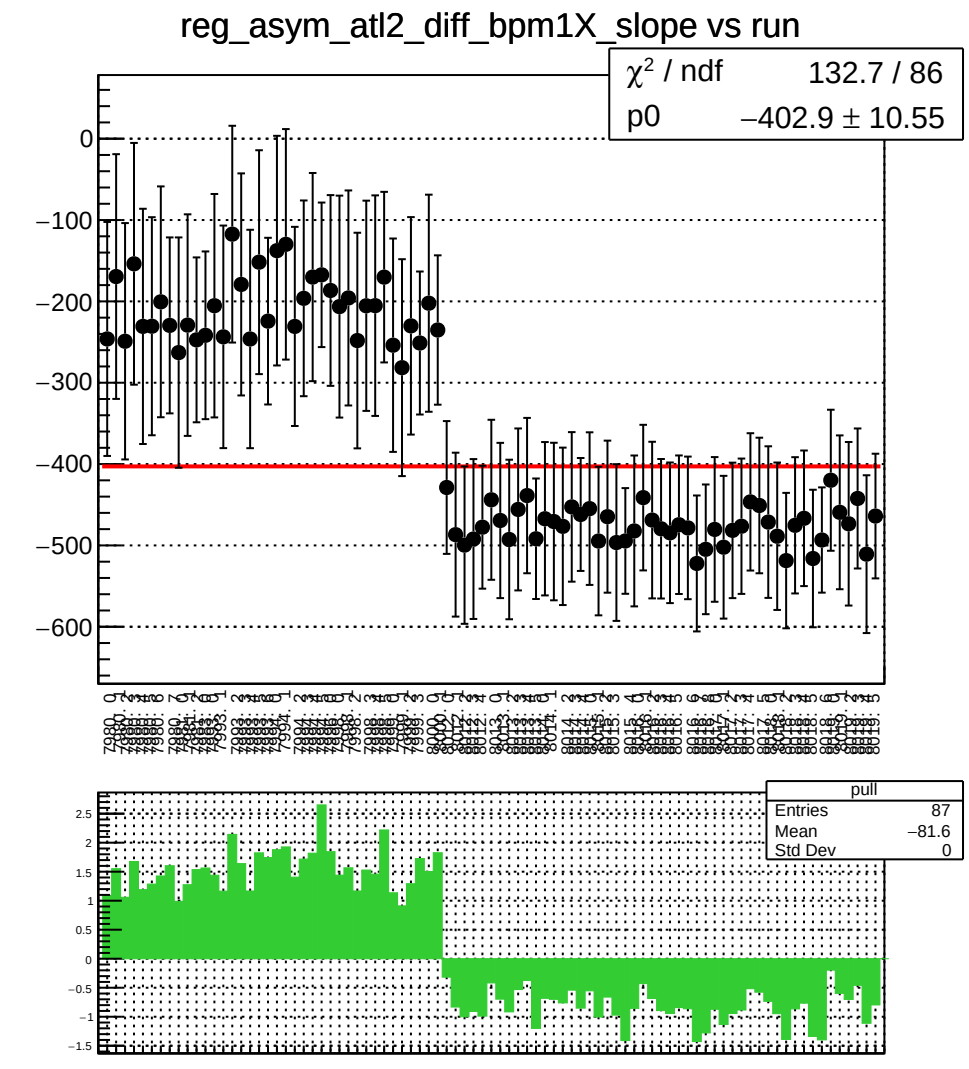

pull1D
Entries 87
Mean −0.05393
Std Dev 1.121

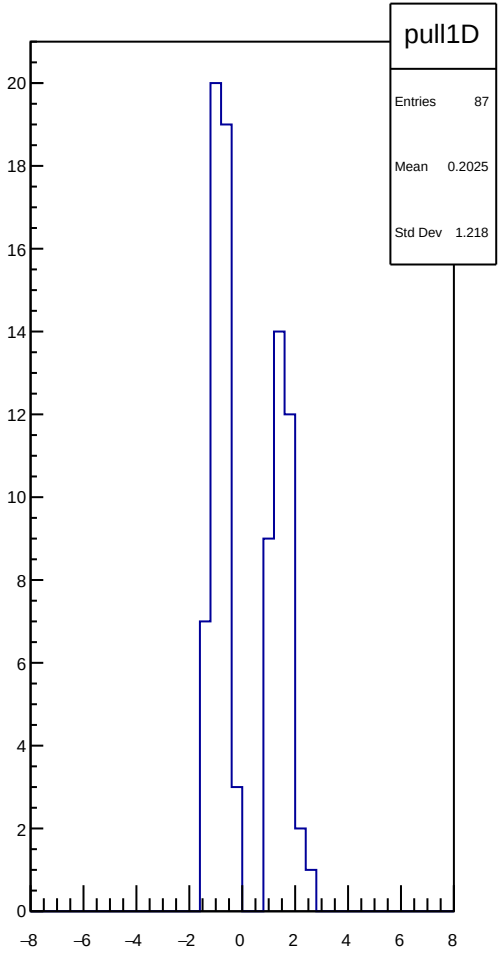

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 77.58 / 86
p0 −9.6 ± 4.166
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −624.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

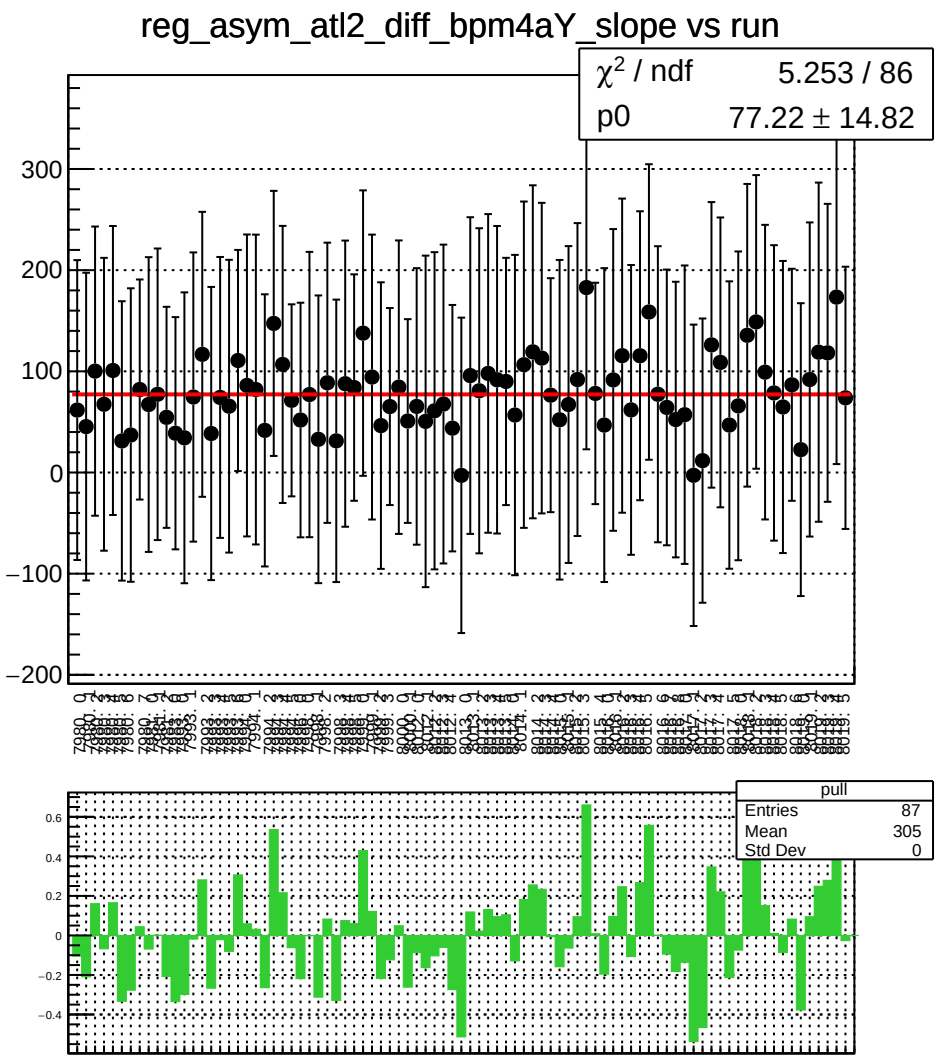

pull1D
Entries 87
Mean 0.003721
Std Dev 0.9443
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

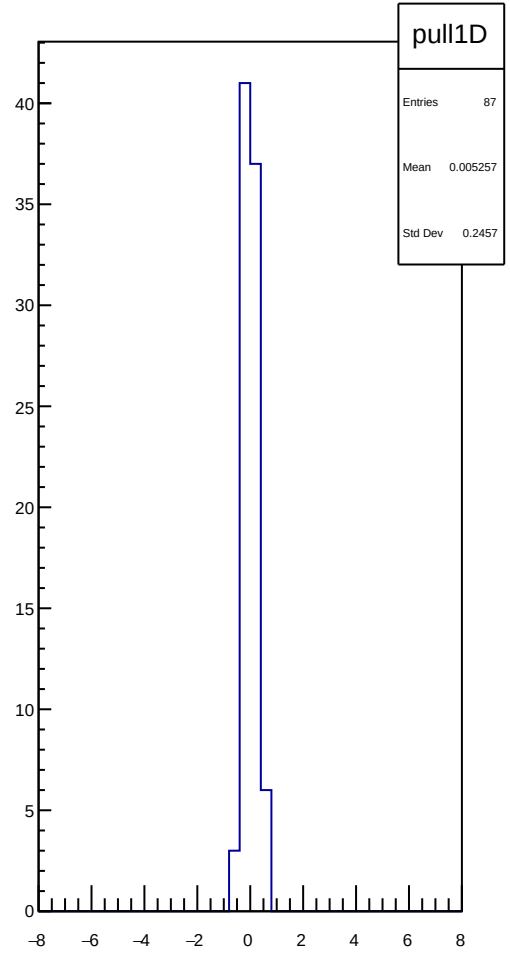

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 1546 / 86
p0 10.01 ± 0.1519
pull
Entries 87
Mean 112.1
Std Dev 0

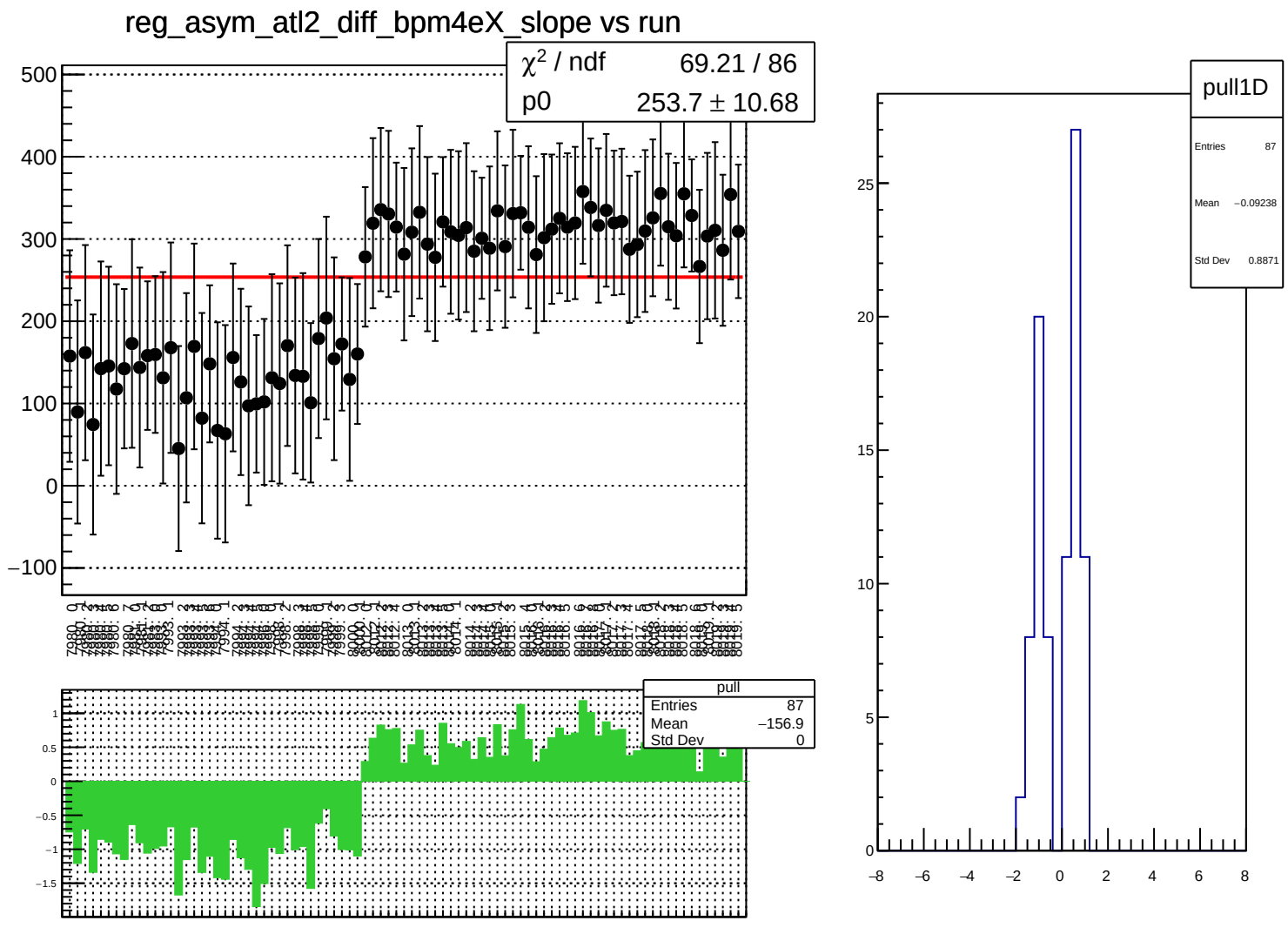

pull1D
Entries 87
Mean −1.102
Std Dev 4.068

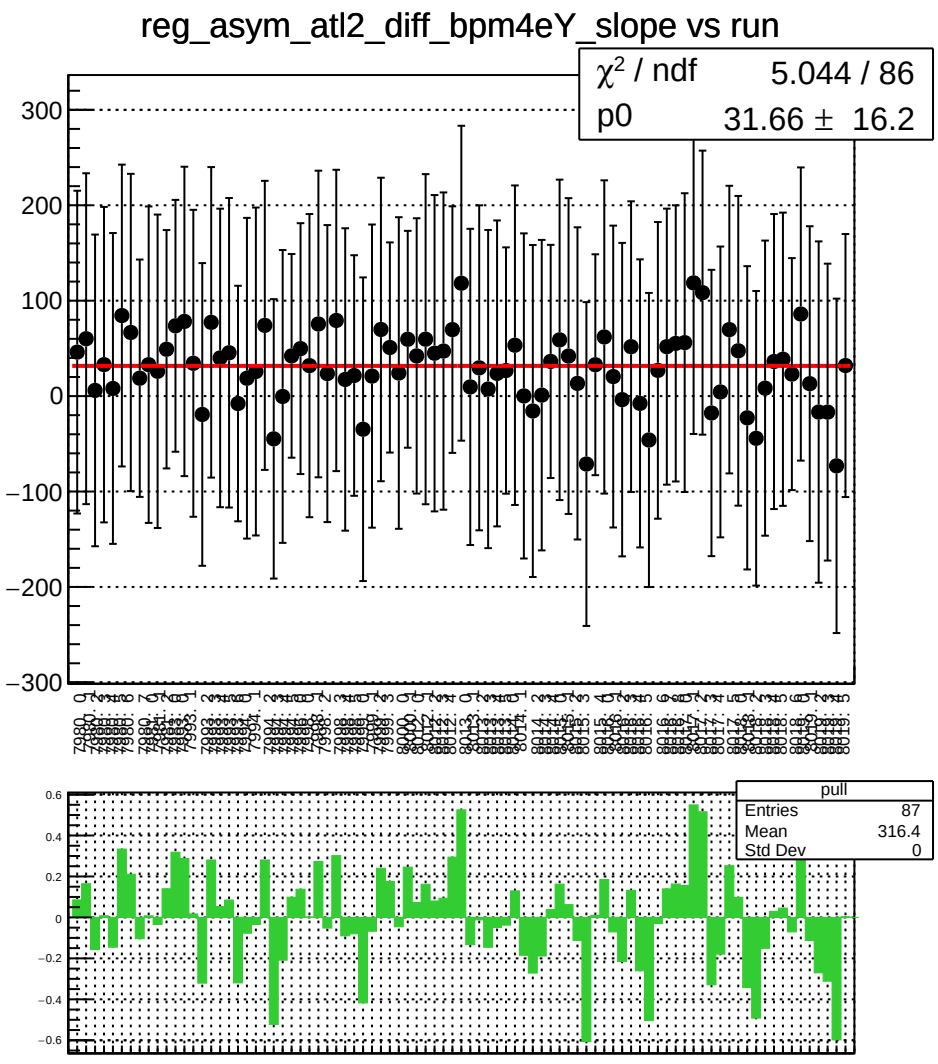

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 132.7 / 86
p0 −402.9 ± 10.55
pull
Entries 87
Mean −81.6
Std Dev 0

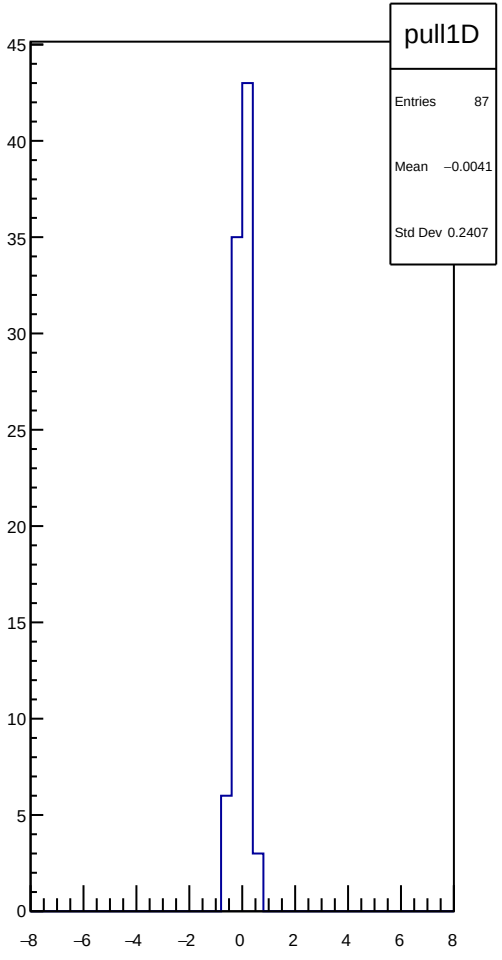

pull1D
Entries 87
Mean 0.2025
Std Dev 1.218

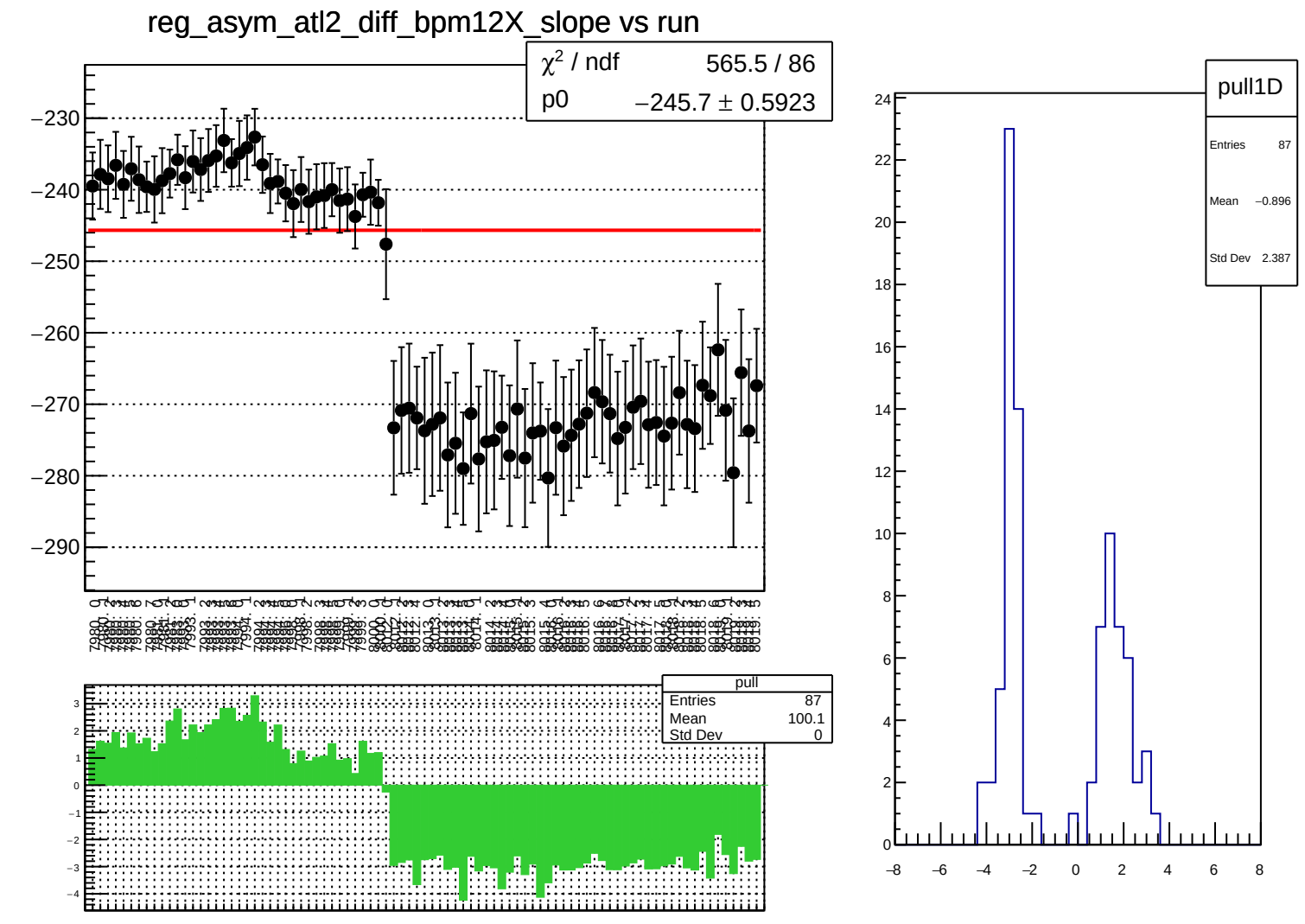

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.253 / 86
p0 77.22 ± 14.82
pull
Entries 87
Mean 305
Std Dev 0

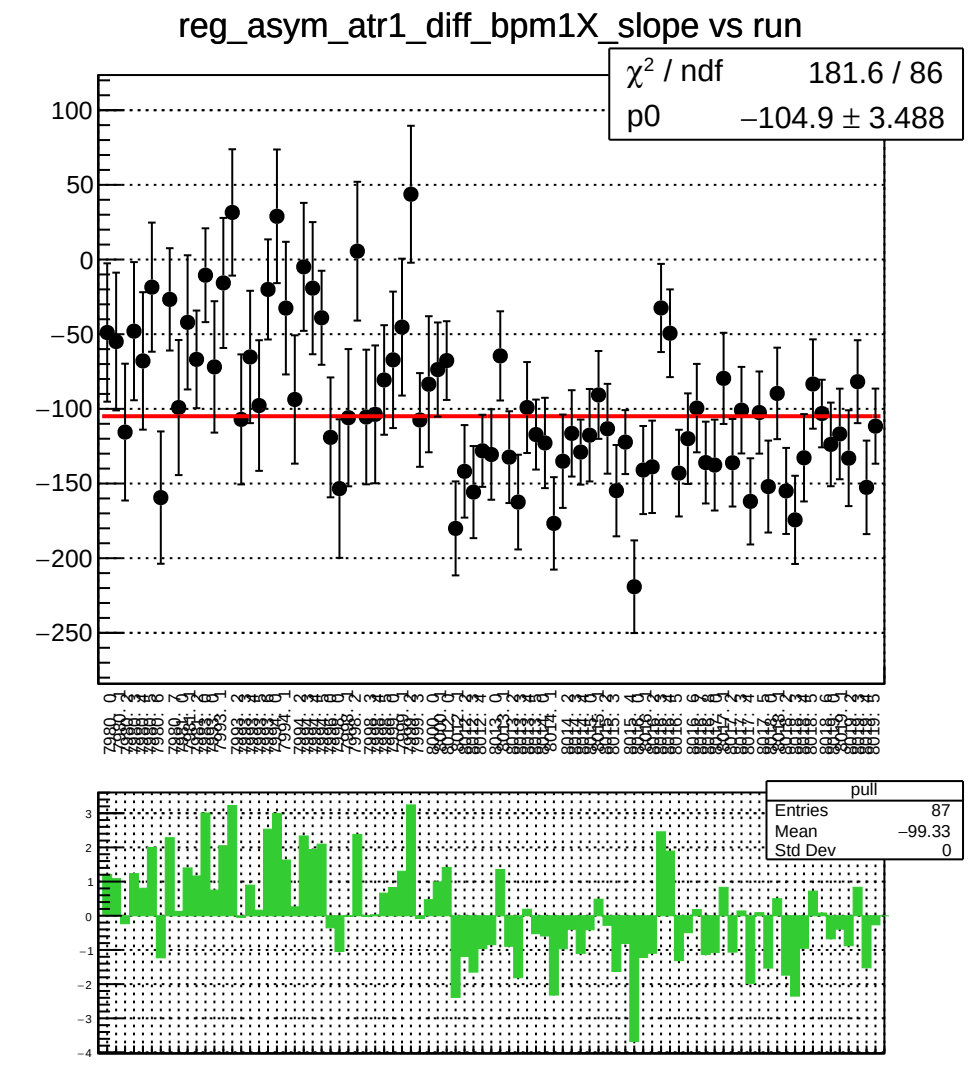

pull1D
Entries 87
Mean 0.005257
Std Dev 0.2457

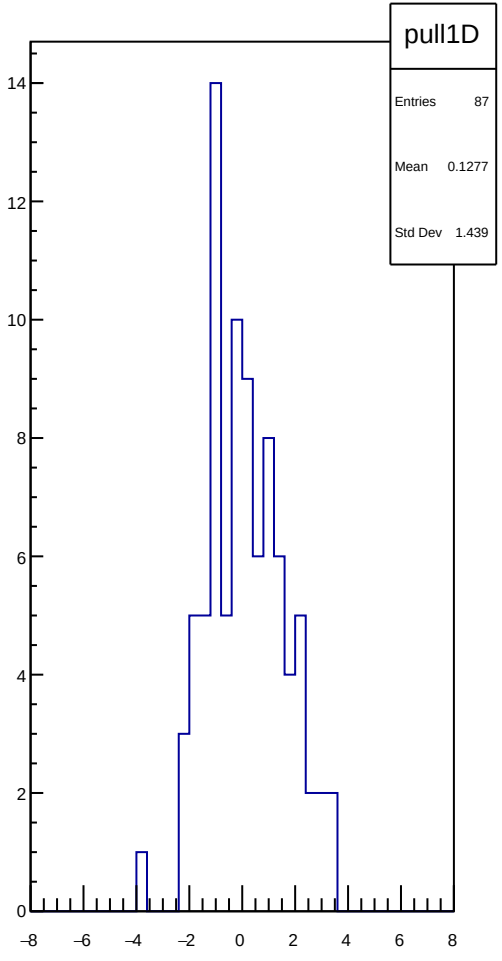

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 69.21 / 86
p0 253.7 ± 10.68
pull
Entries 87
Mean −156.9
Std Dev 0
pull1D
Entries 87
Mean −0.09238
Std Dev 0.8871

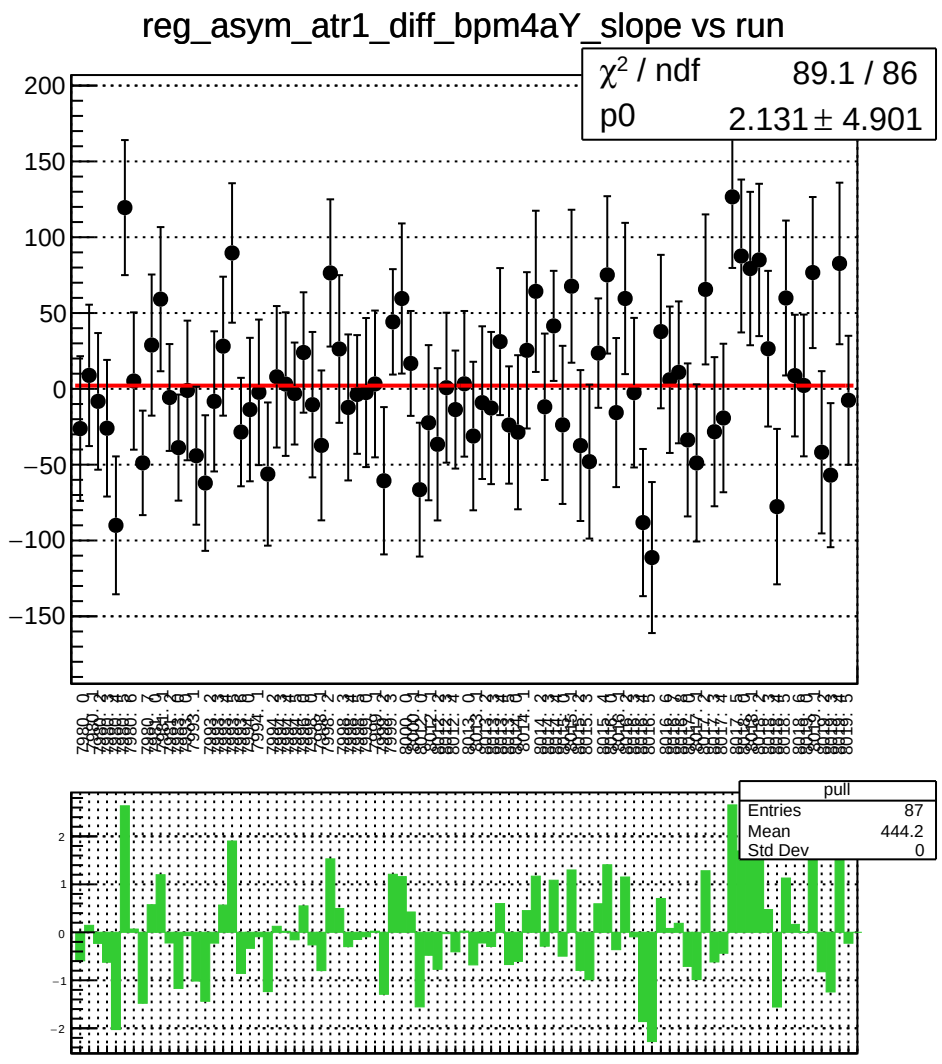

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.044 / 86
p0 31.66 ± 16.2
pull
Entries 87
Mean 316.4
Std Dev 0

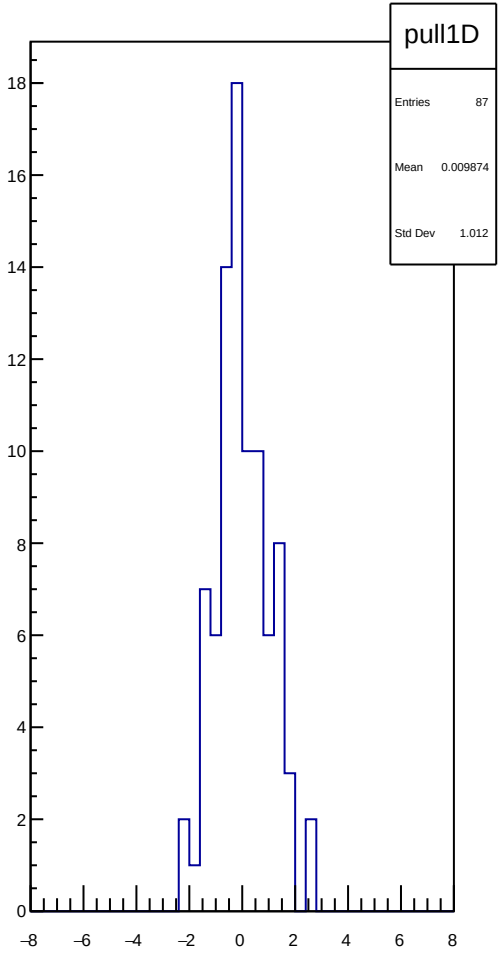

pull1D
Entries 87
Mean −0.0041
Std Dev 0.2407

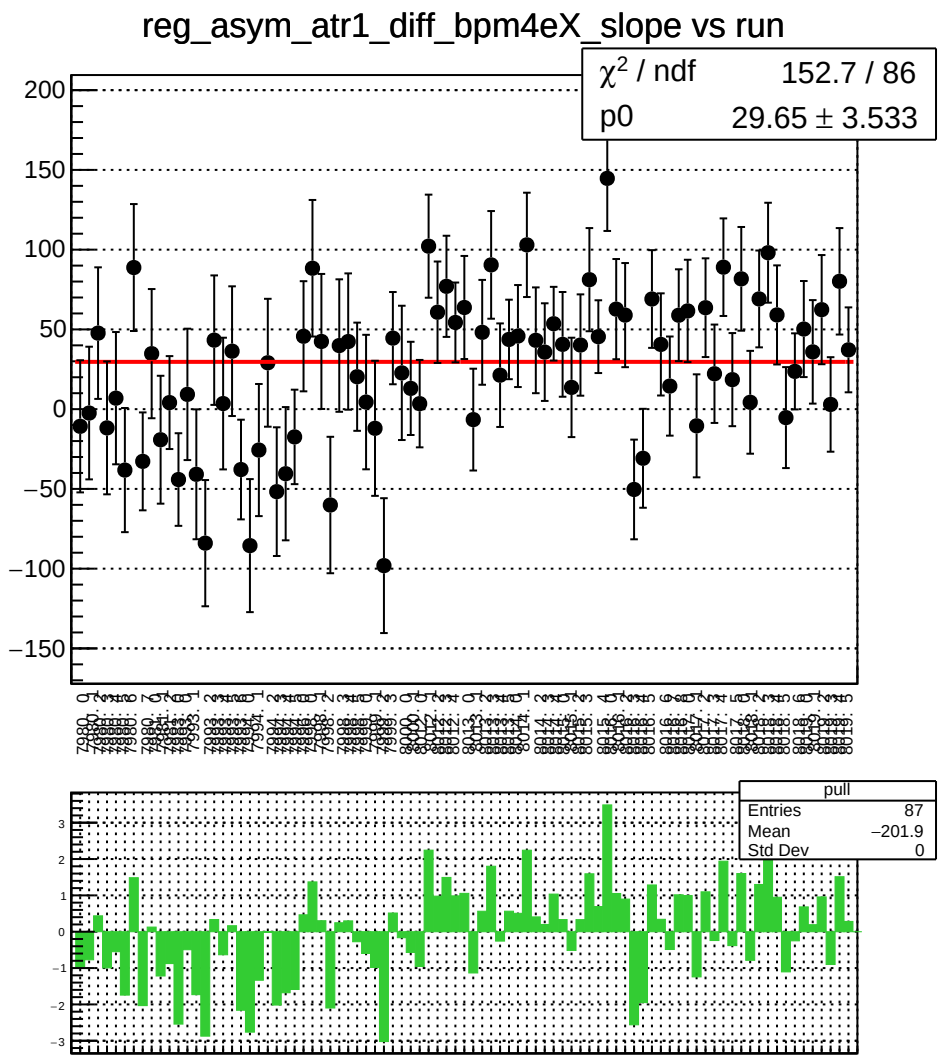

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 565.5 / 86
p0 −245.7 ± 0.5923
pull
Entries 87
Mean 100.1
Std Dev 0
pull1D
Entries 87
Mean −0.896
Std Dev 2.387

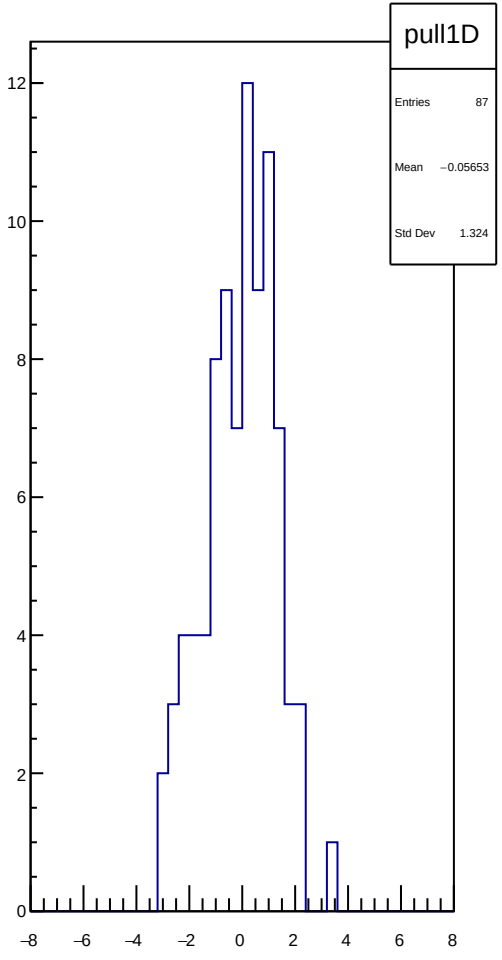

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 181.6 / 86
p0 −104.9 ± 3.488
pull
Entries 87
Mean −99.33
Std Dev 0

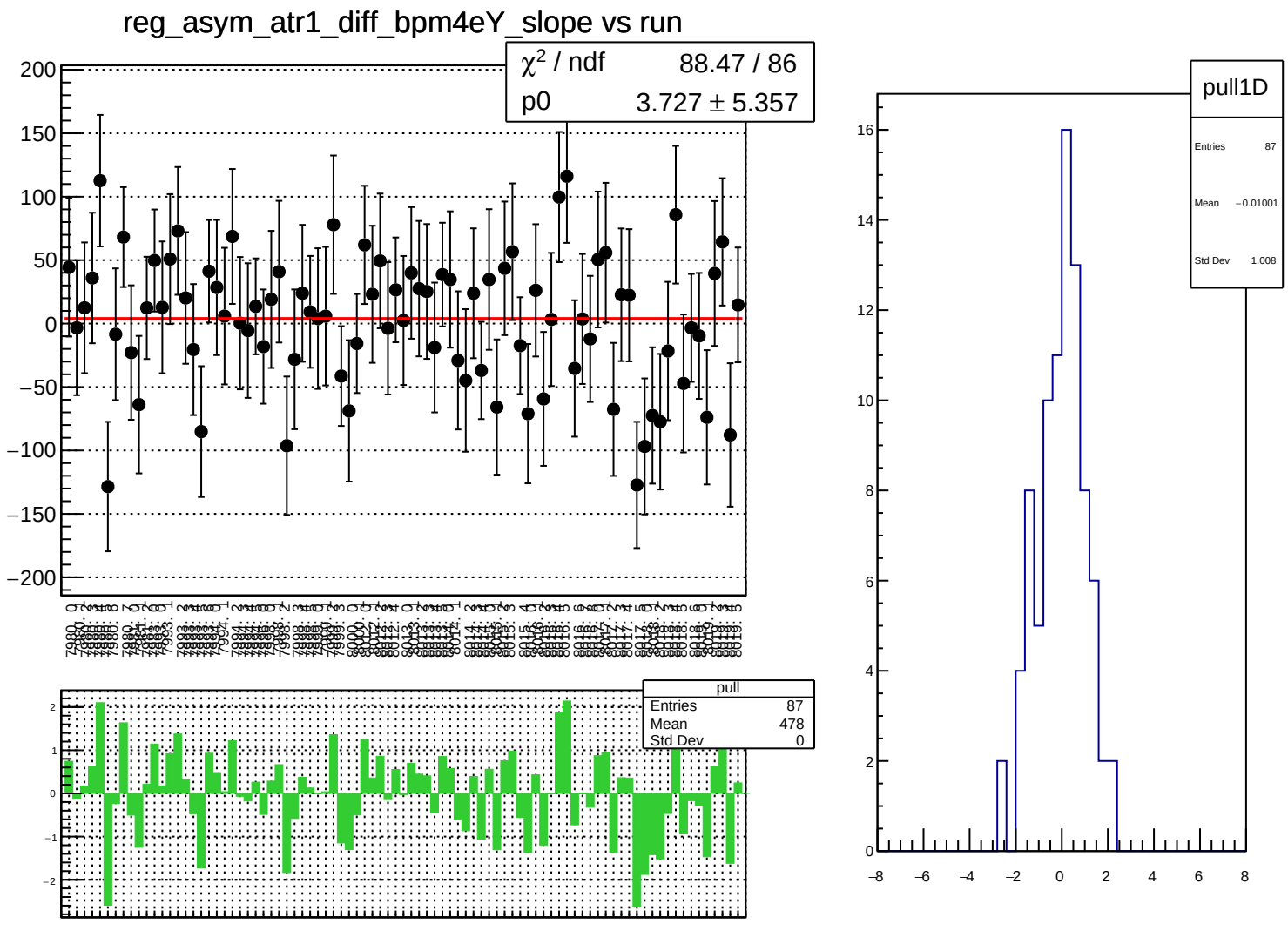

pull1D
Entries 87
Mean 0.1277
Std Dev 1.439

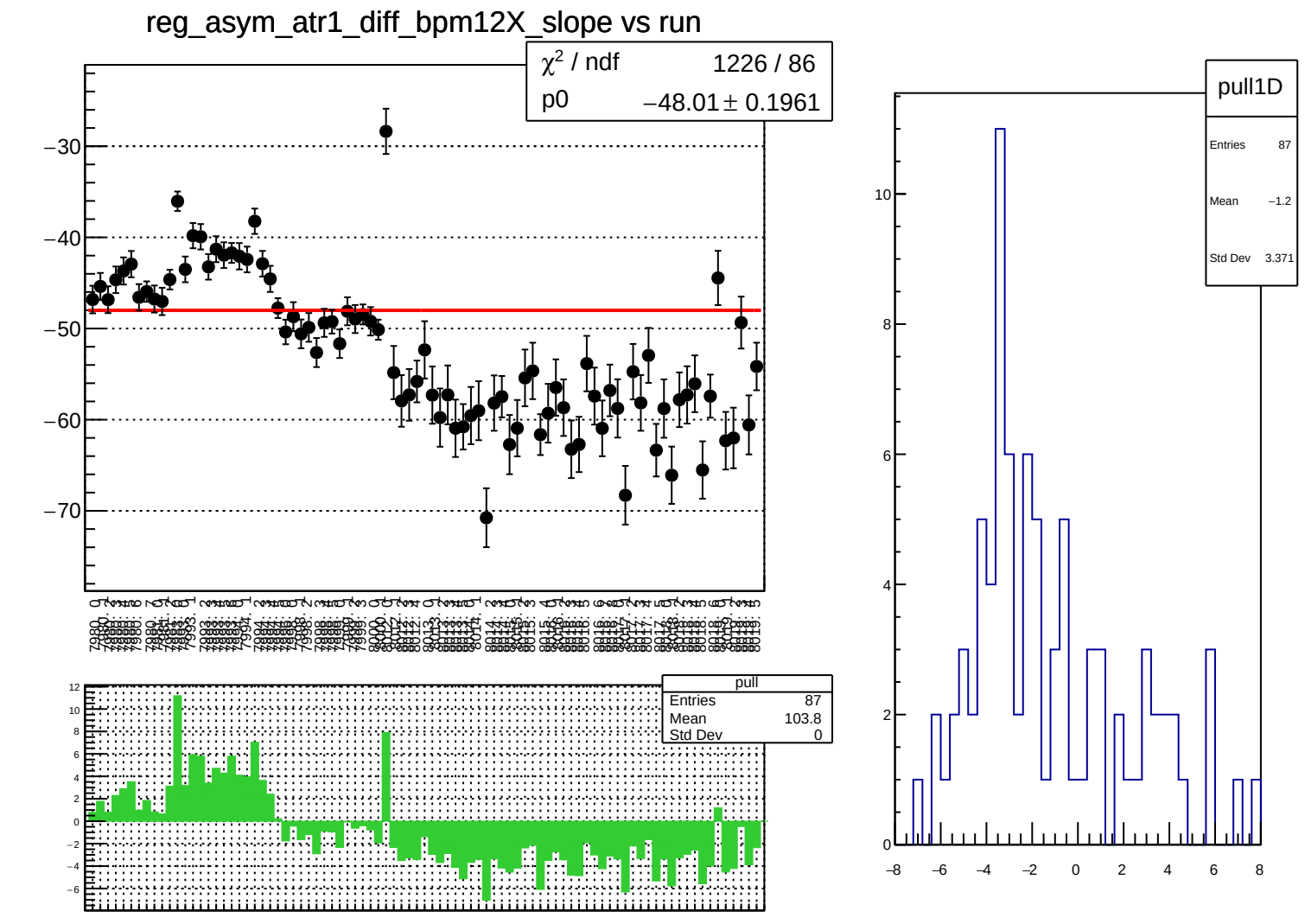

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 89.1 / 86
p0 2.131 ± 4.901
pull
Entries 87
Mean 444.2
Std Dev 0

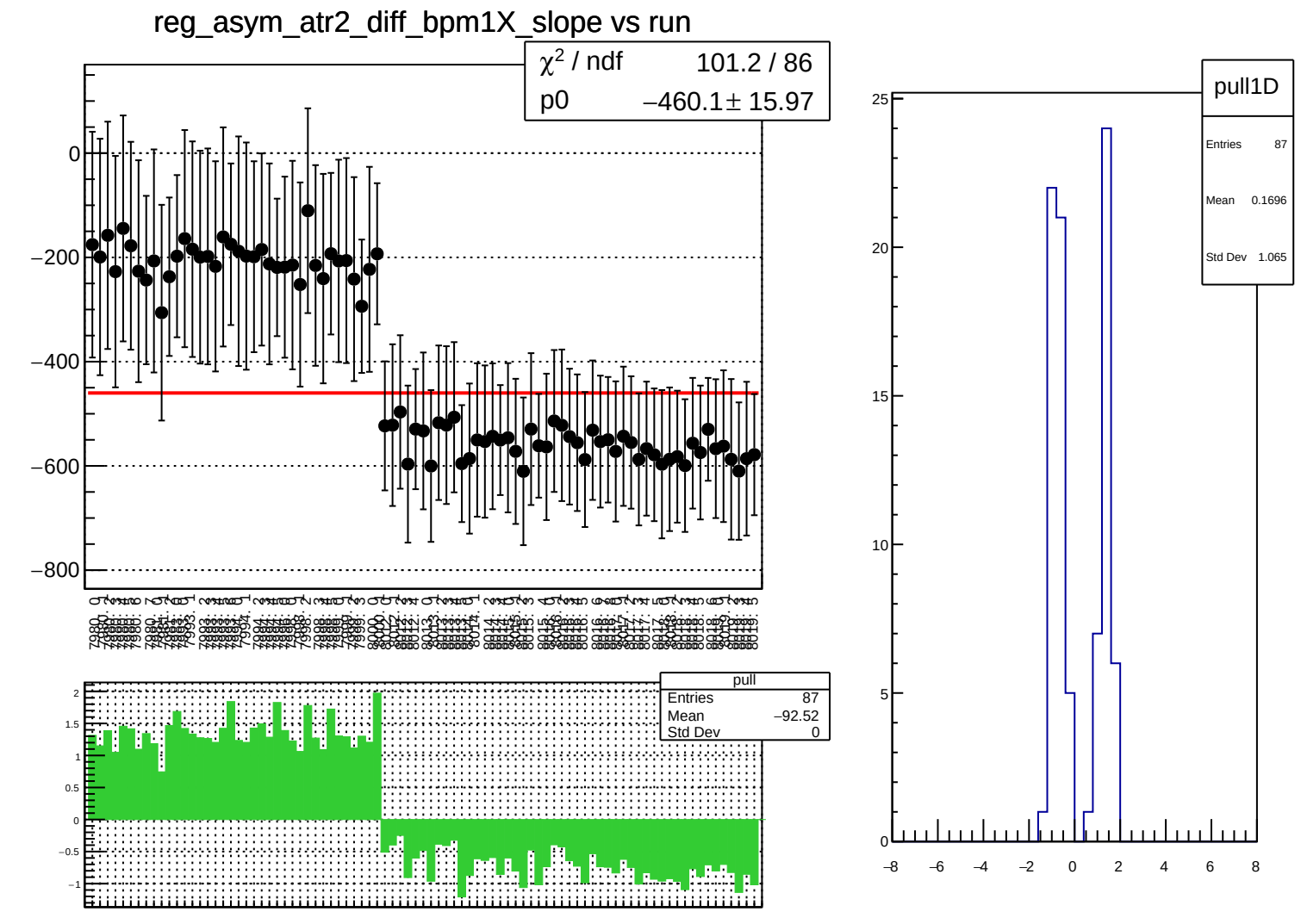

pull1D
Entries 87
Mean 0.009874
Std Dev 1.012

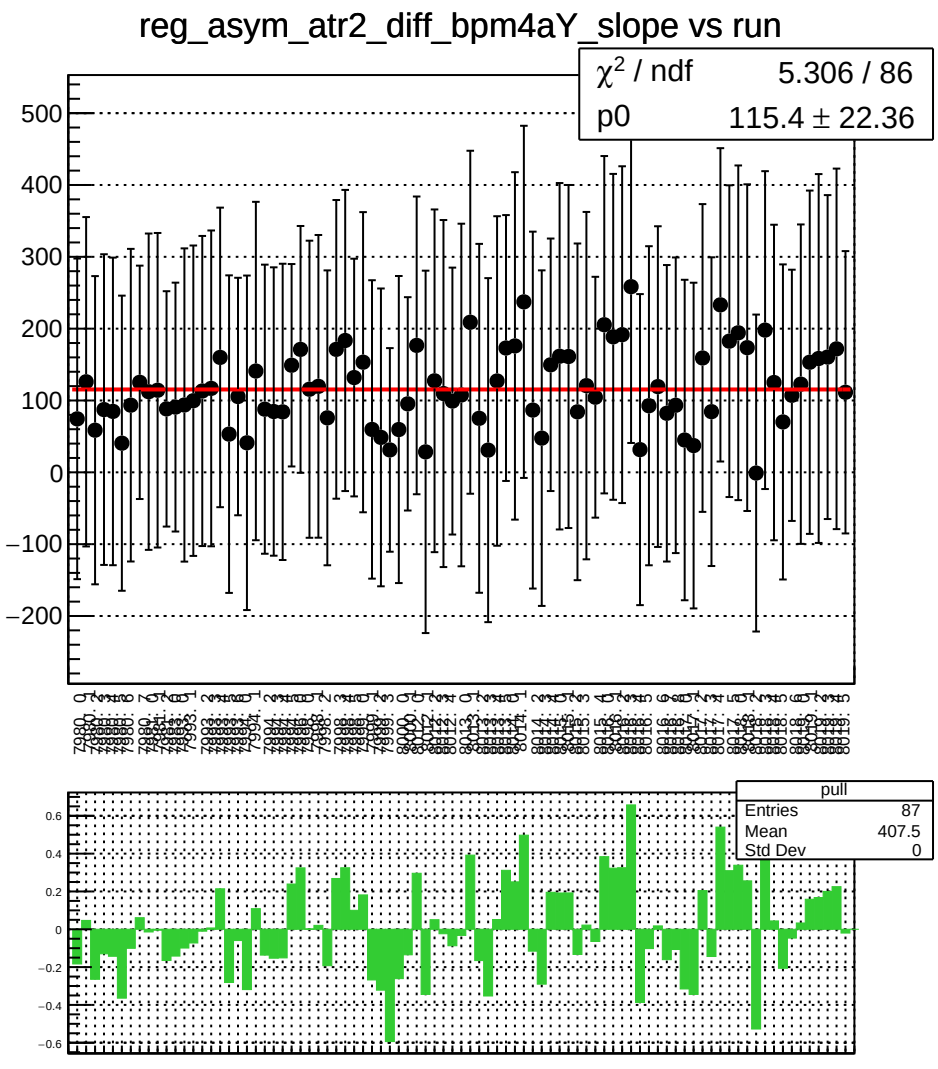

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 152.7 / 86
p0 29.65 ± 3.533
pull
Entries 87
Mean −201.9
Std Dev 0

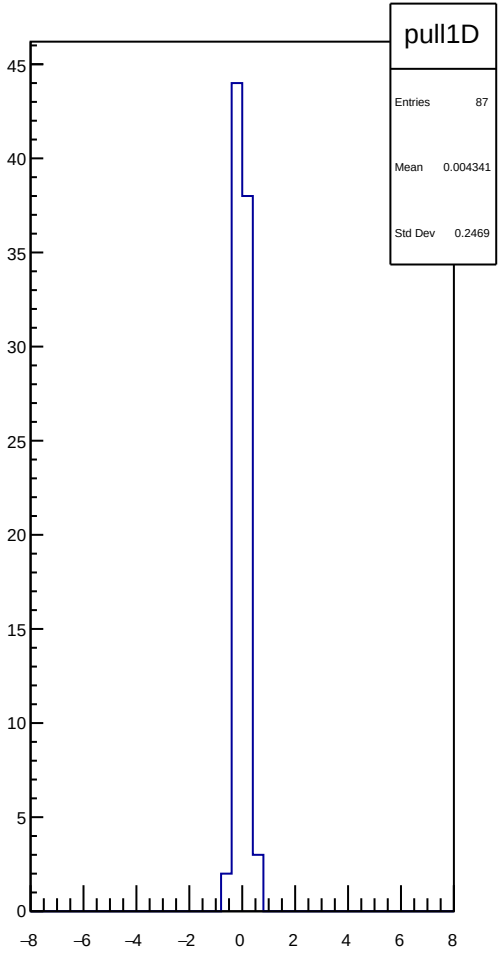

pull1D
Entries 87
Mean −0.05653
Std Dev 1.324

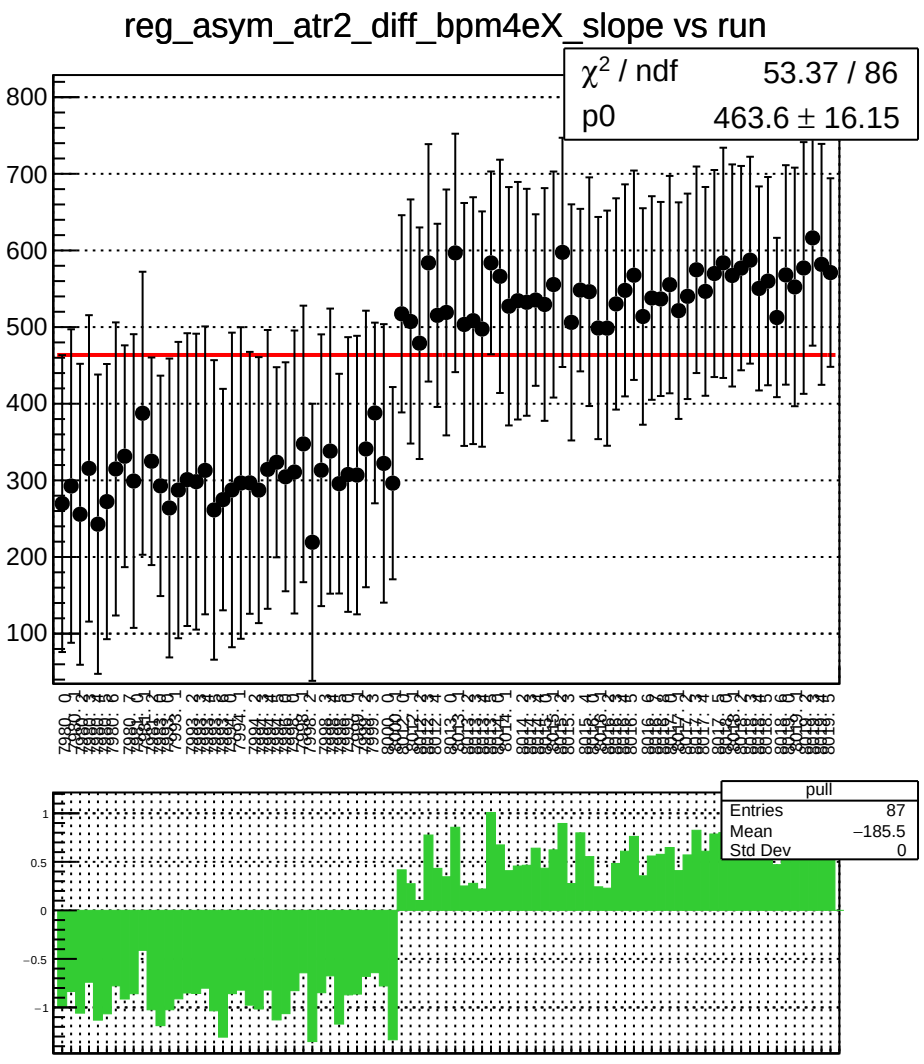

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 88.47 / 86
p0 3.727 ± 5.357
pull
Entries 87
Mean 478
Std Dev 0
pull1D
Entries 87
Mean −0.01001
Std Dev 1.008

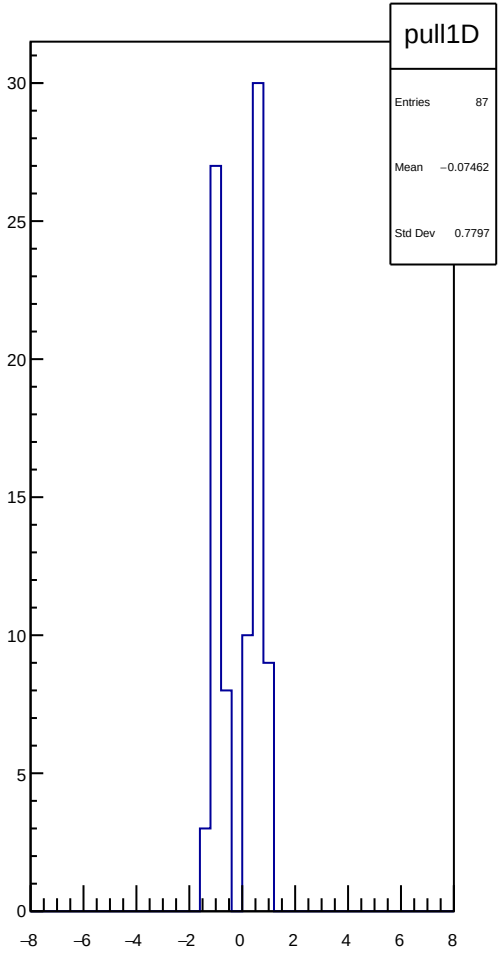

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 1226 / 86
p0 −48.01 ± 0.1961
pull
Entries 87
Mean 103.8
Std Dev 0
pull1D
Entries 87
Mean −1.2
Std Dev 3.371

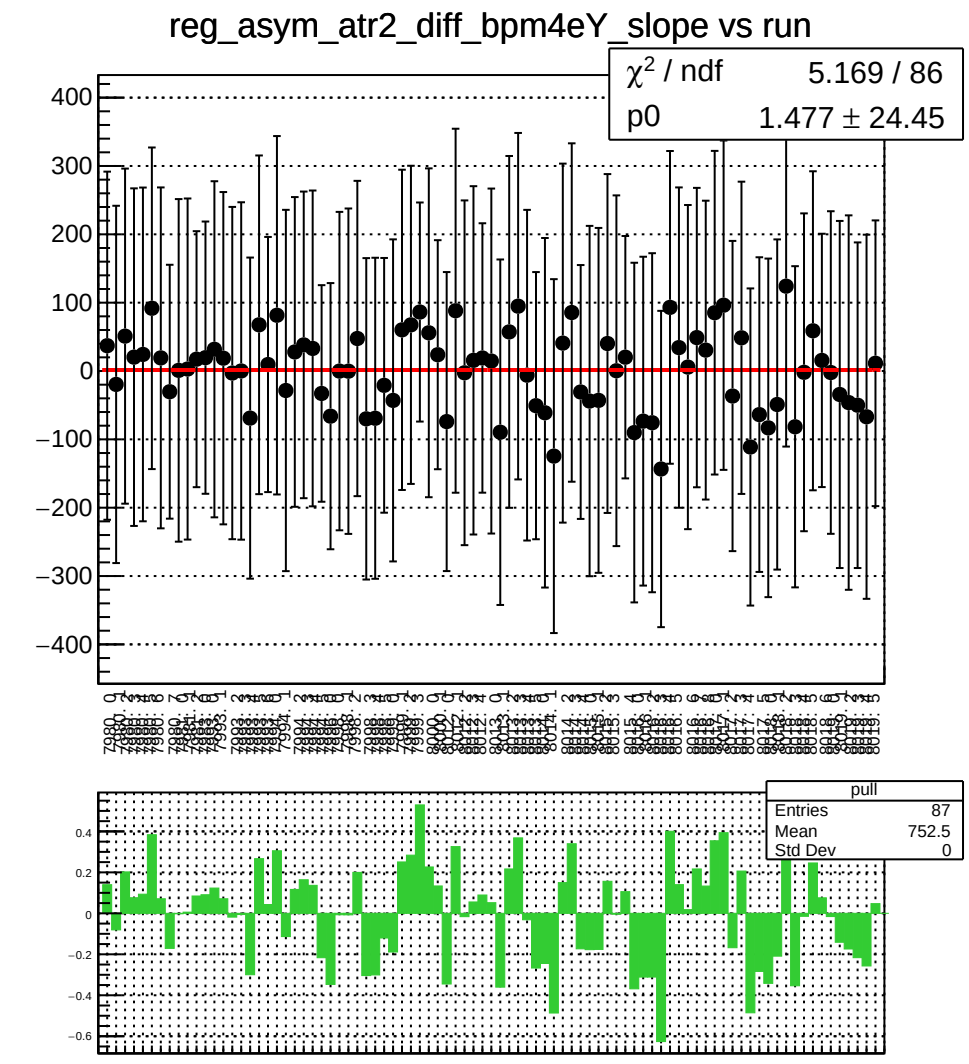

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 101.2 / 86
p0 −460.1 ± 15.97
0
−200
−400
−600
−800
pull
Entries 87
Mean −92.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.1696
Std Dev 1.065
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

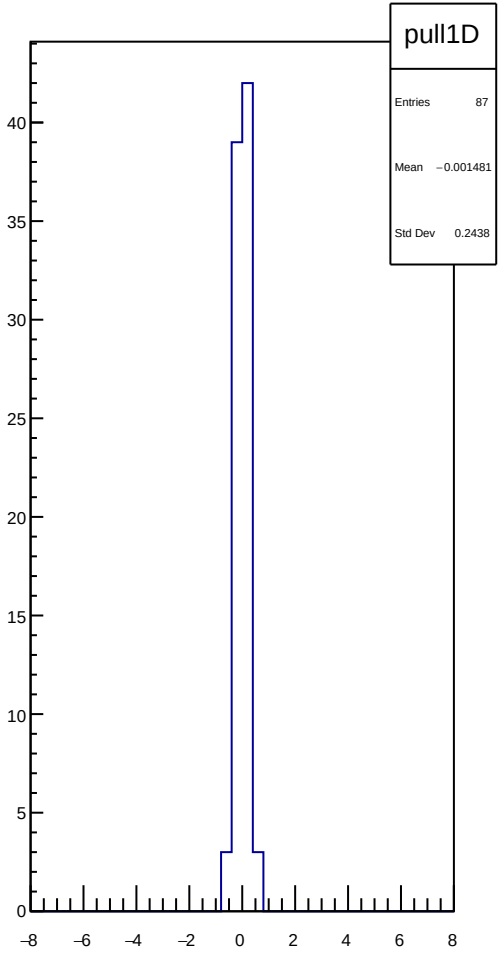

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 5.306 / 86
p0 115.4 ± 22.36
pull
Entries 87
Mean 407.5
Std Dev 0

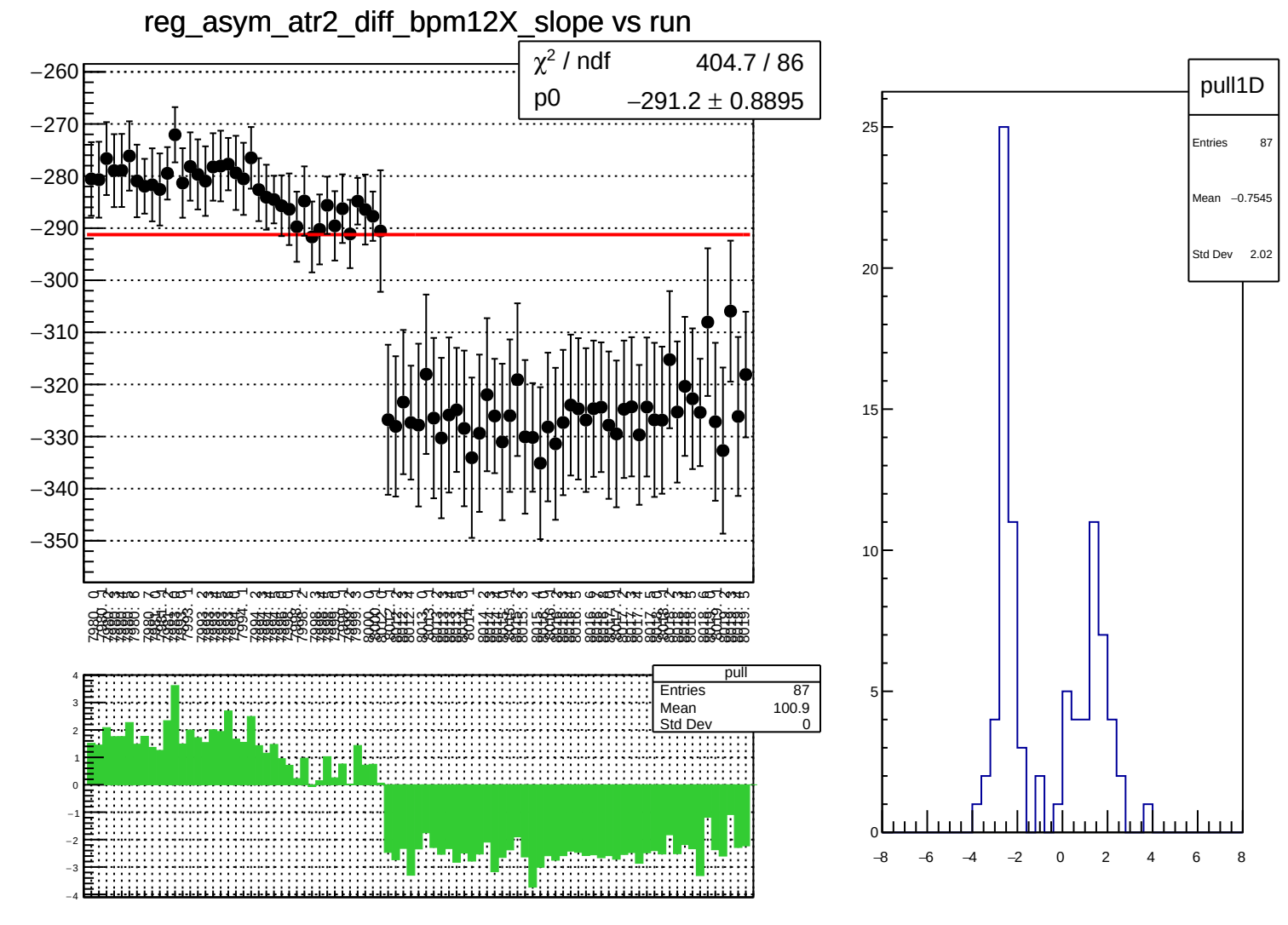

pull1D
Entries 87
Mean 0.004341
Std Dev 0.2469

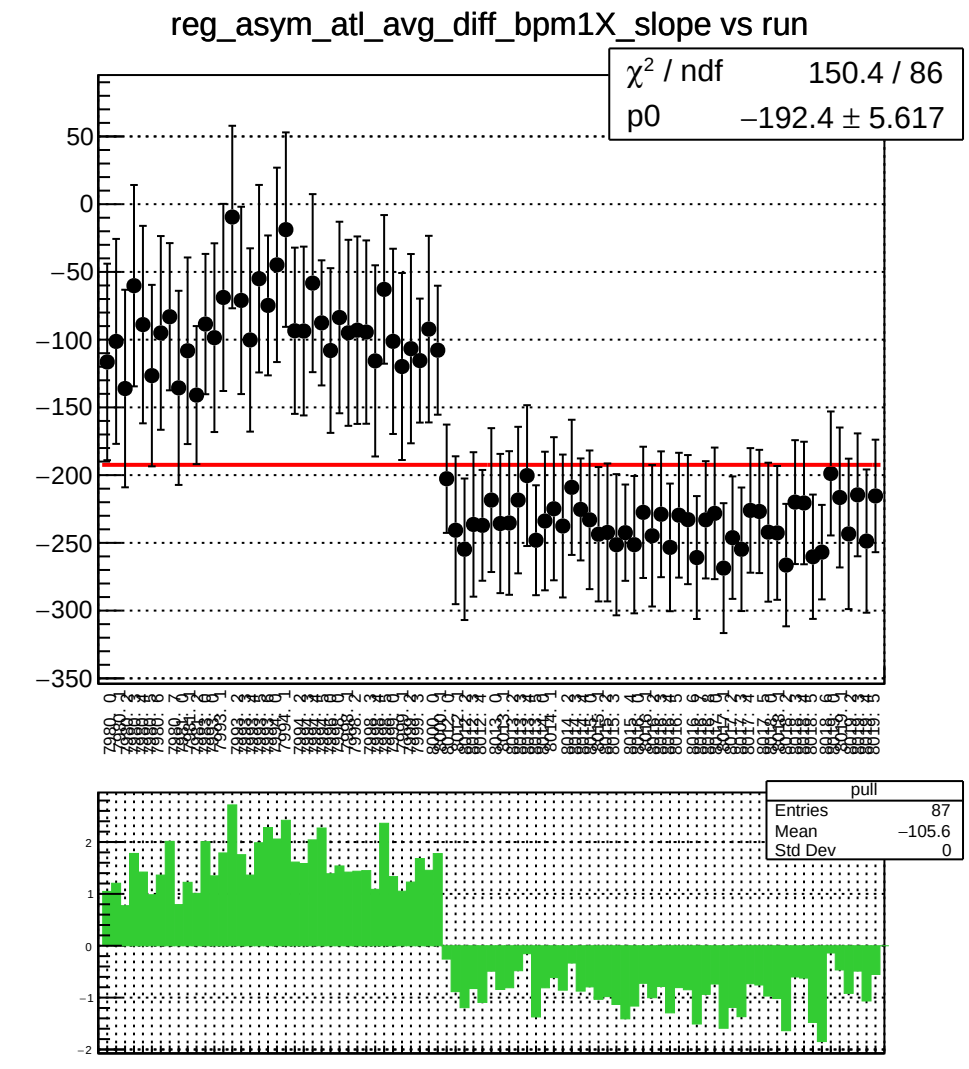

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 53.37 / 86
p0 463.6 ± 16.15
pull
Entries 87
Mean −185.5
Std Dev 0

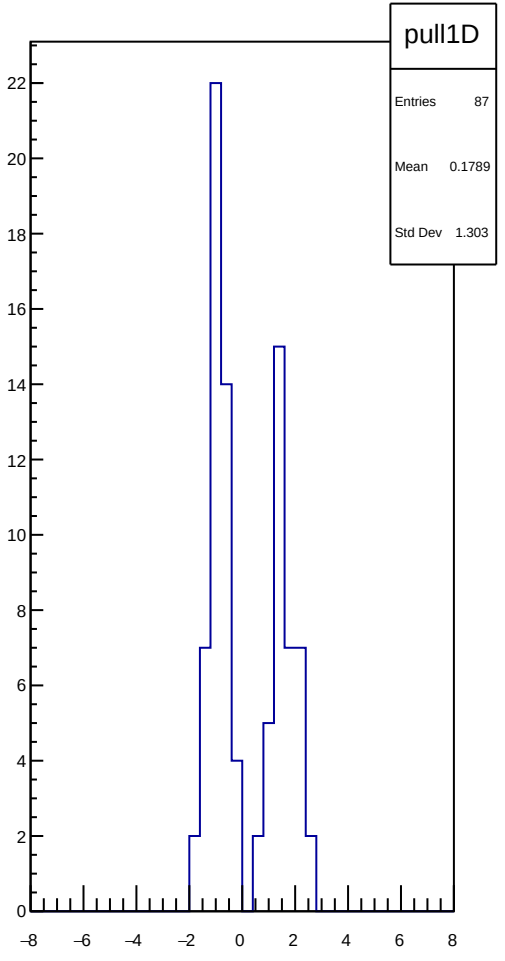

pull1D
Entries 87
Mean −0.07462
Std Dev 0.7797

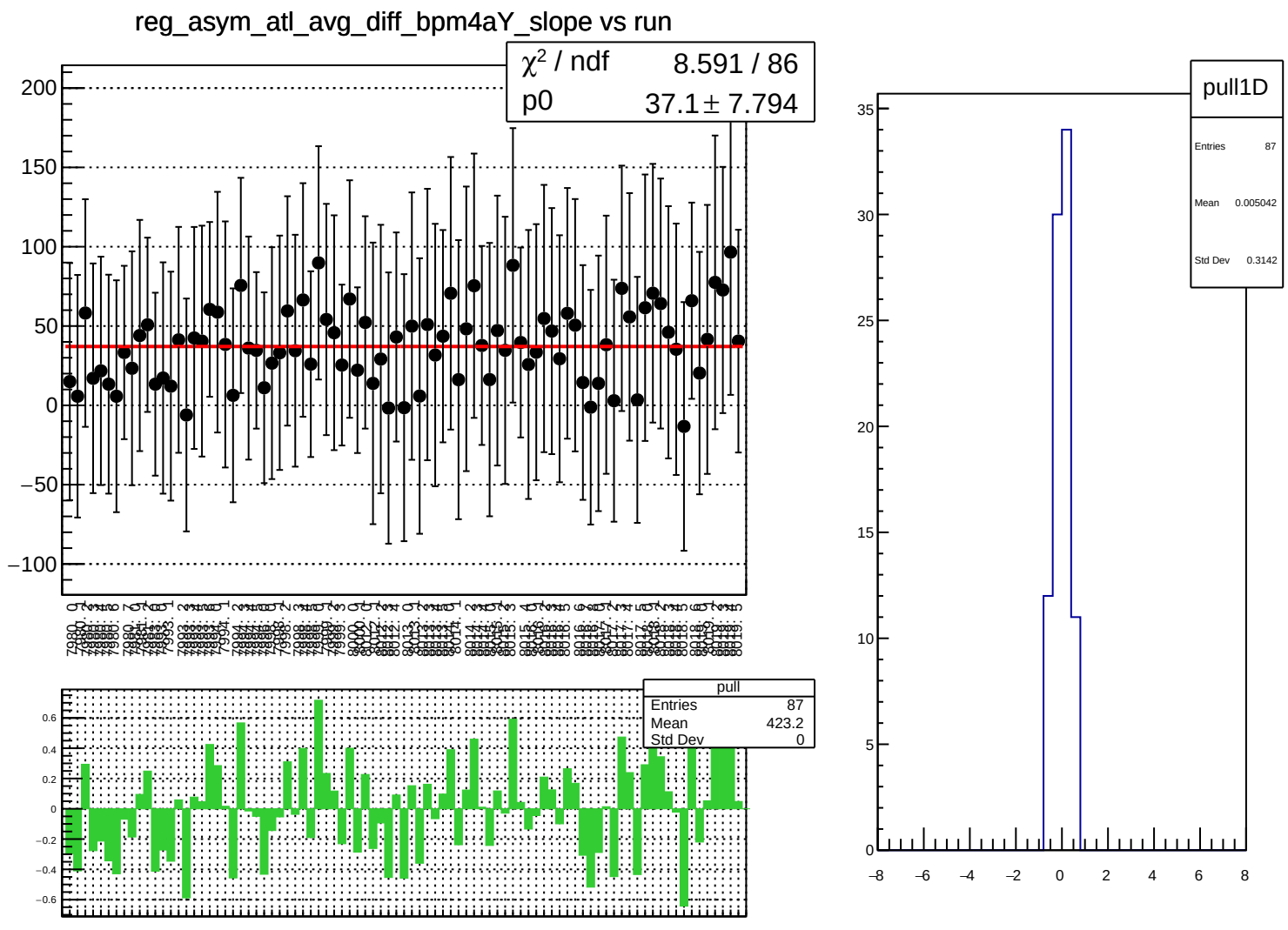

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 5.169 / 86
p0 1.477 ± 24.45
pull
Entries 87
Mean 752.5
Std Dev 0

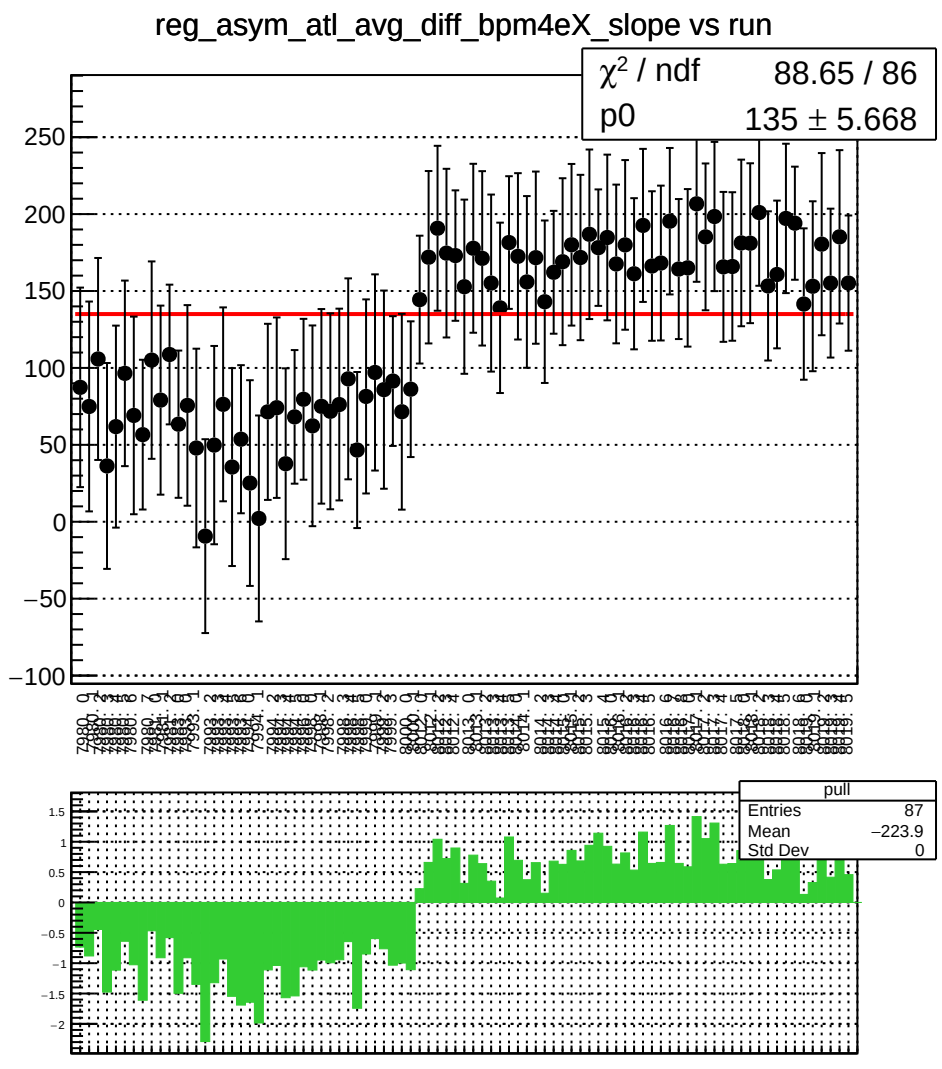

pull1D
Entries 87
Mean −0.001481
Std Dev 0.2438

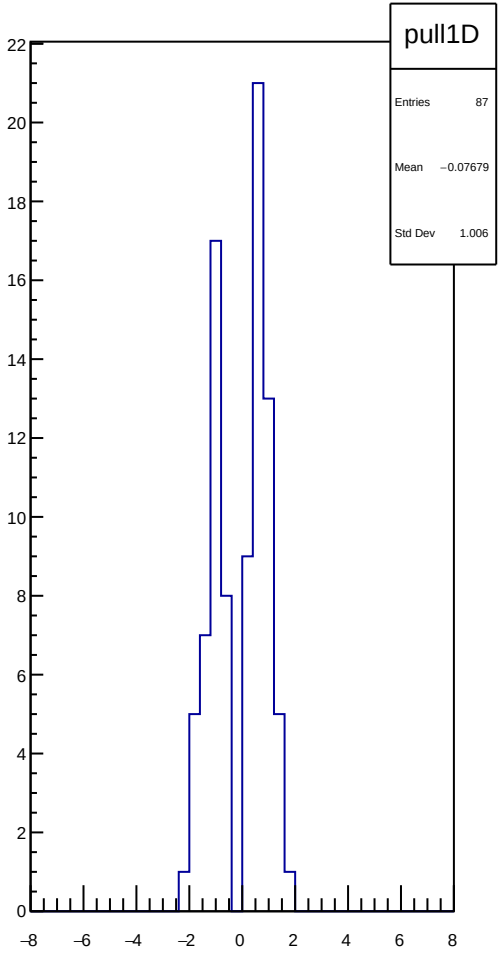

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 404.7 / 86
p0 −291.2 ± 0.8895
pull
Entries 87
Mean 100.9
Std Dev 0
pull1D
Entries 87
Mean −0.7545
Std Dev 2.02

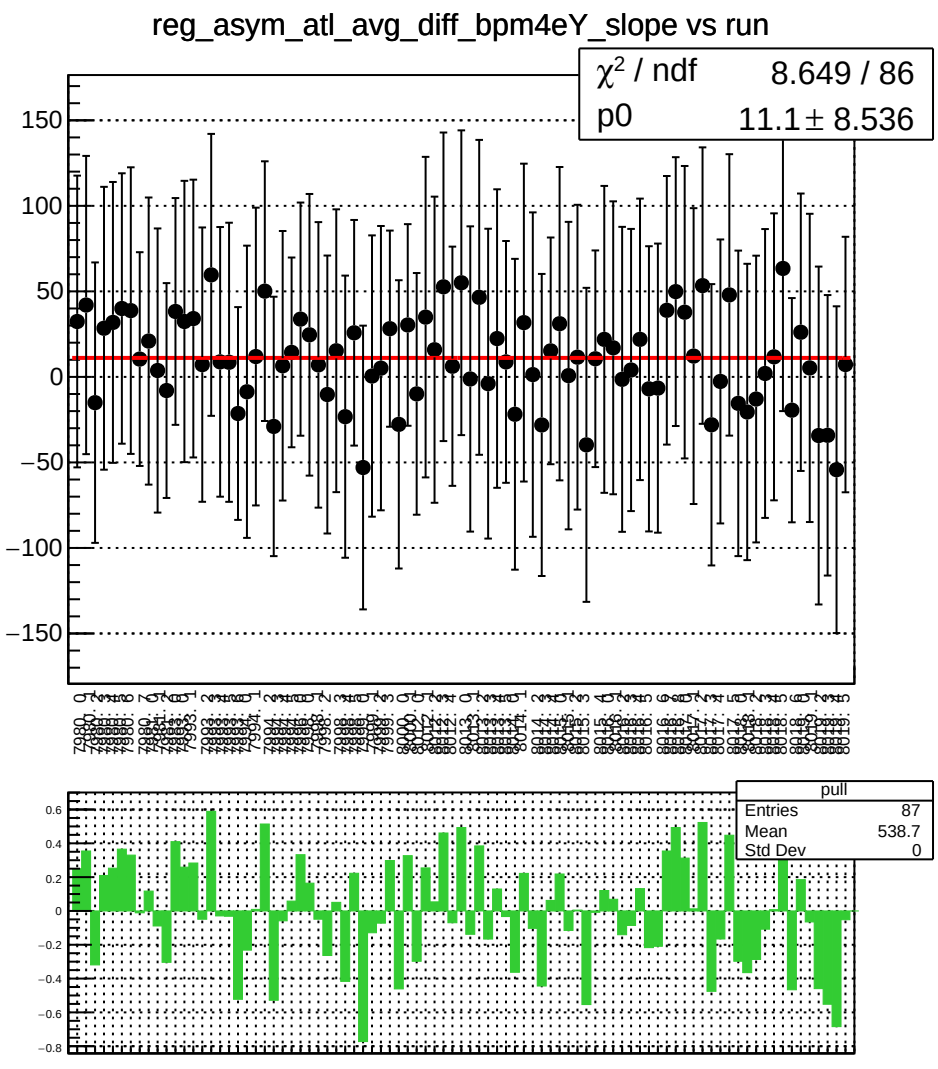

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 150.4 / 86
p0 −192.4 ± 5.617
pull
Entries 87
Mean −105.6
Std Dev 0

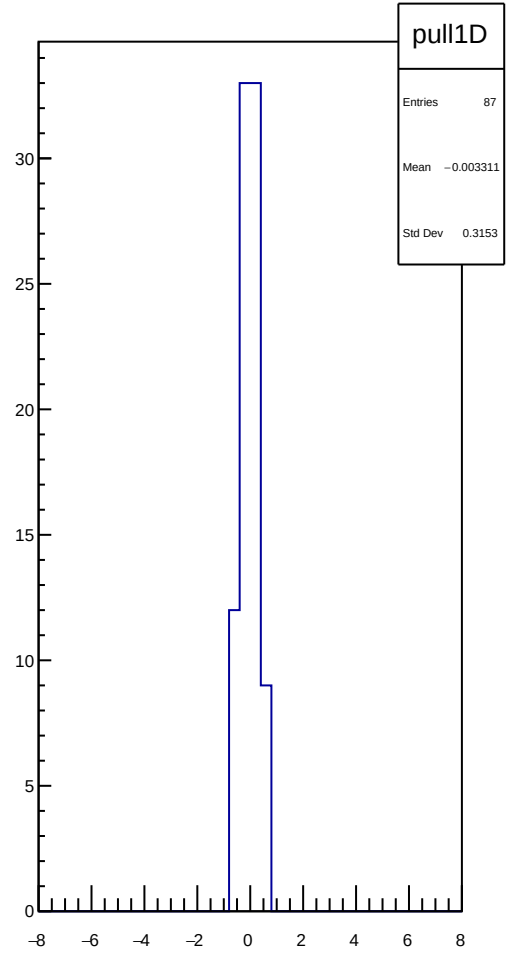

pull1D
Entries 87
Mean 0.1789
Std Dev 1.303

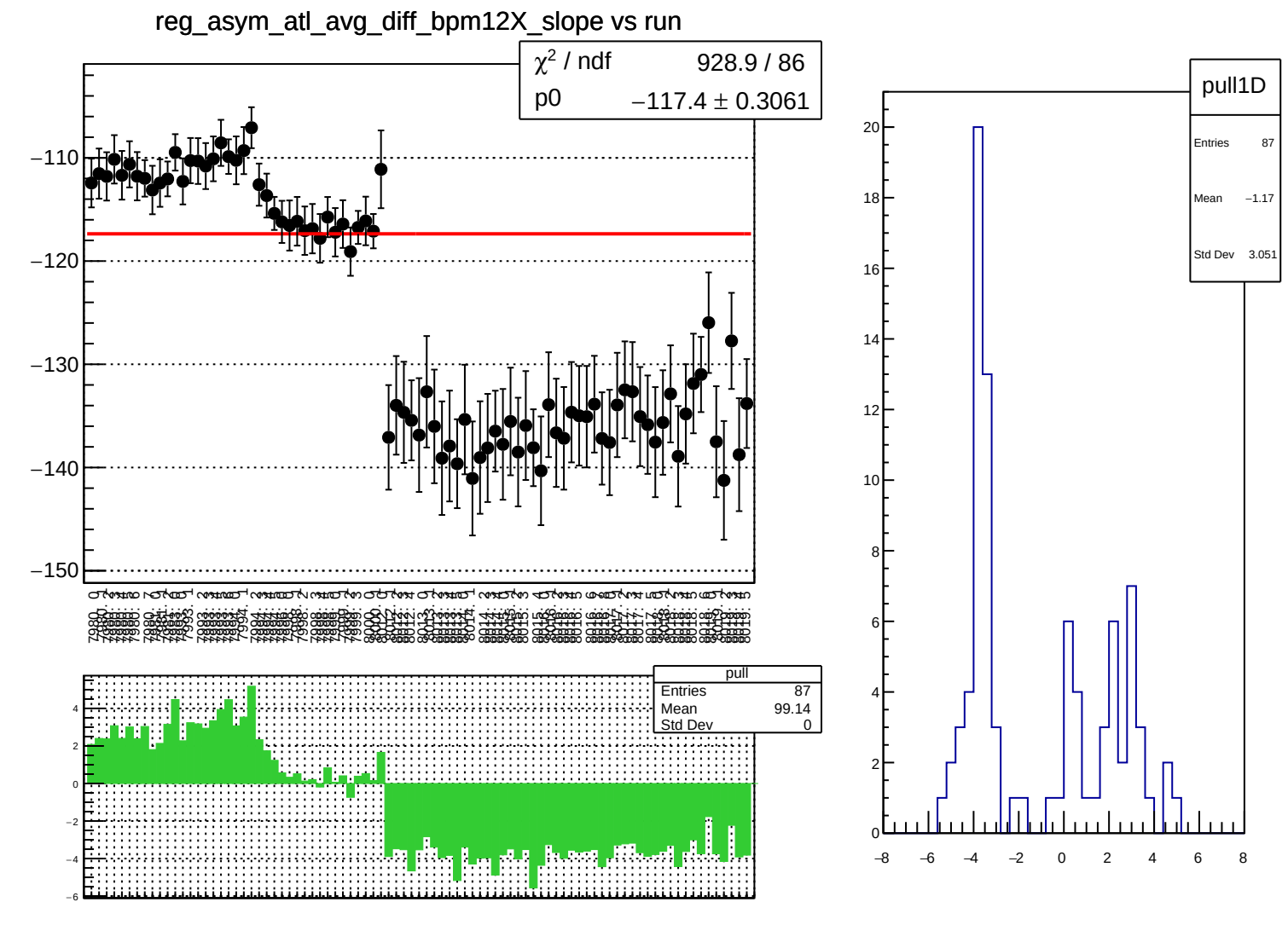

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.591 / 86
p0 37.1 ± 7.794
pull
Entries 87
Mean 423.2
Std Dev 0
pull1D
Entries 87
Mean 0.005042
Std Dev 0.3142

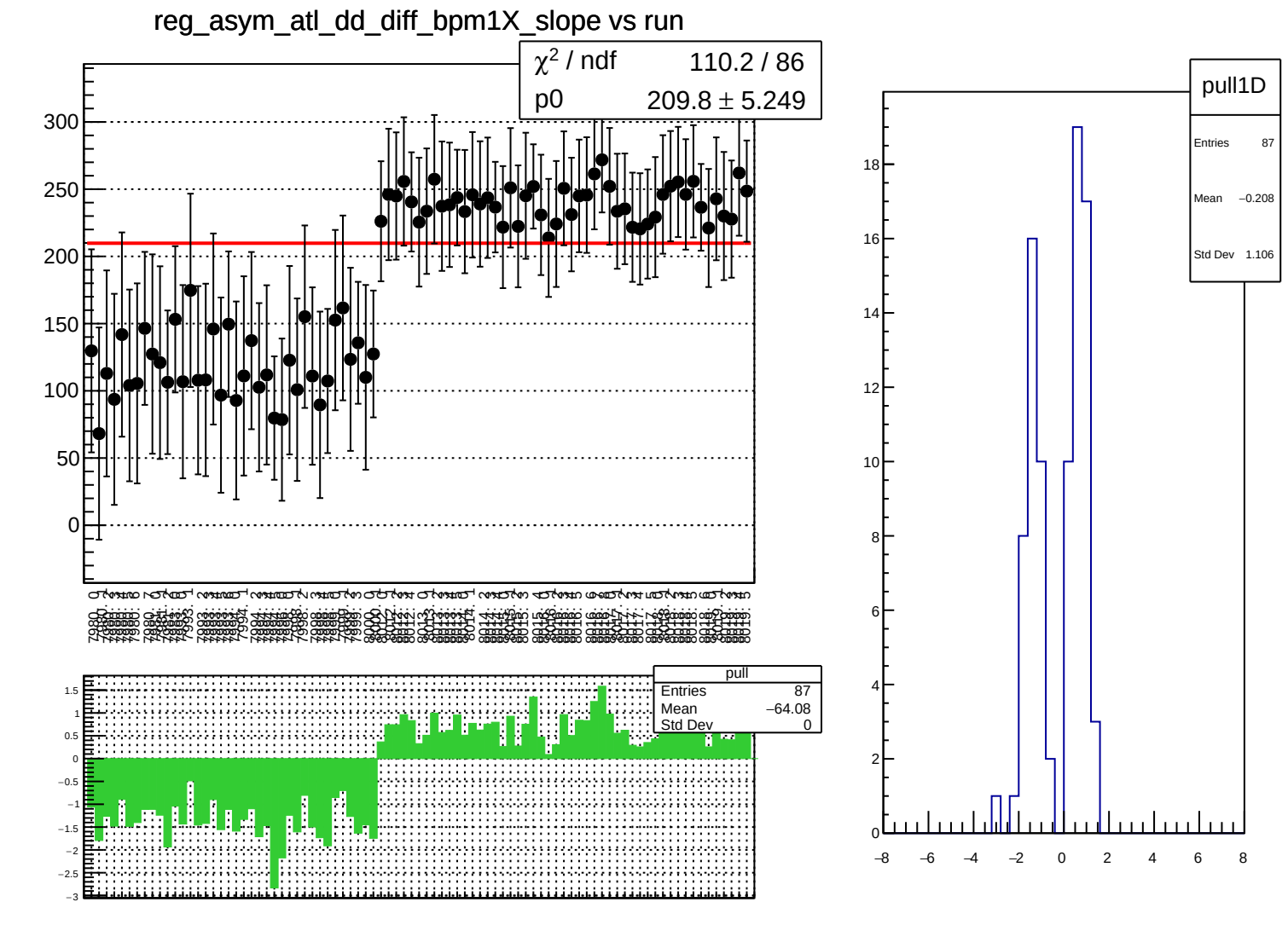

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 88.65 / 86
p0 135 ± 5.668
pull
Entries 87
Mean −223.9
Std Dev 0

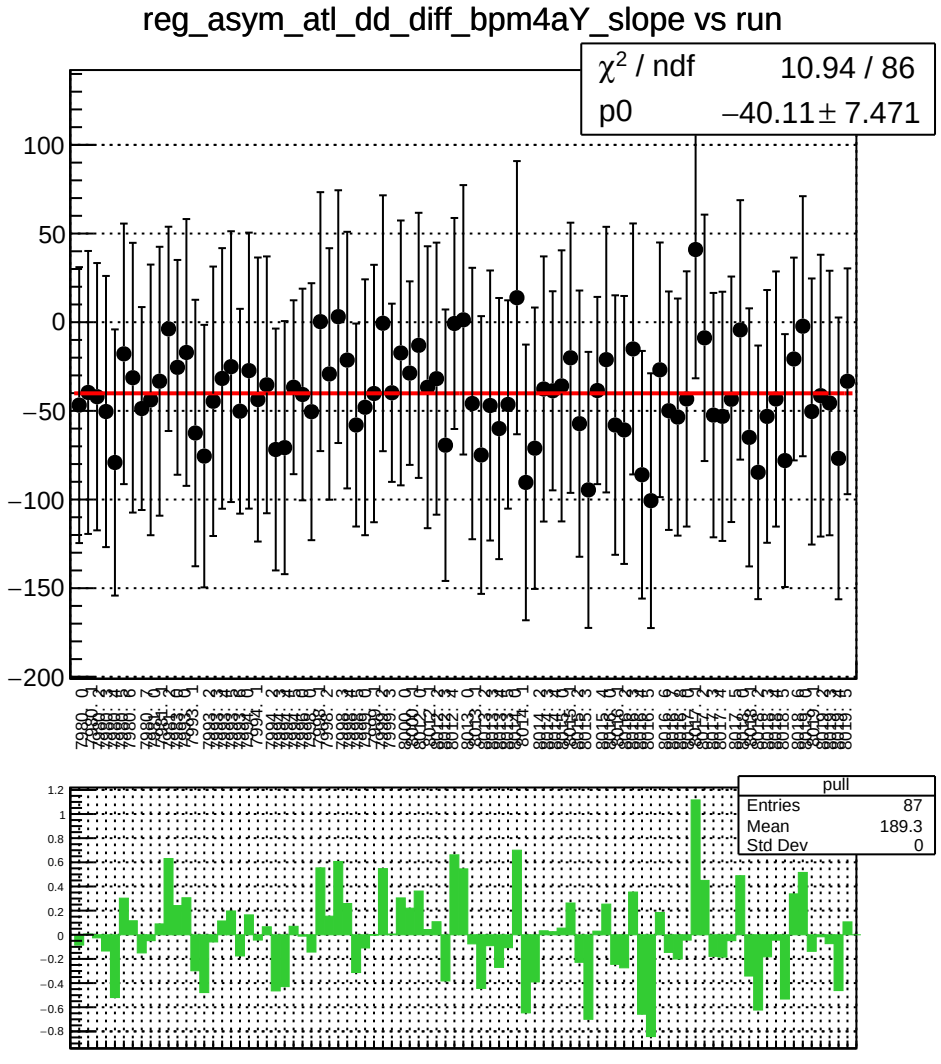

pull1D
Entries 87
Mean −0.07679
Std Dev 1.006

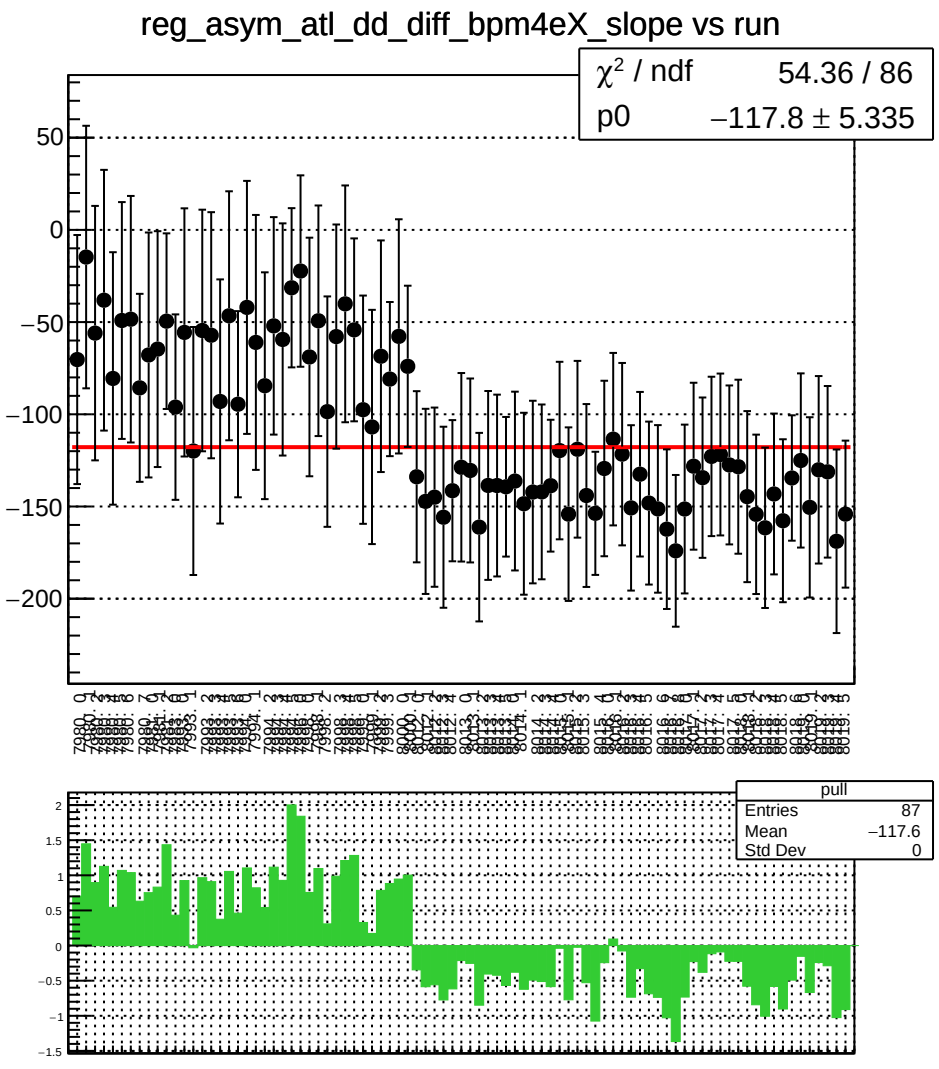

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.649 / 86
p0 11.1 ± 8.536
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 538.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

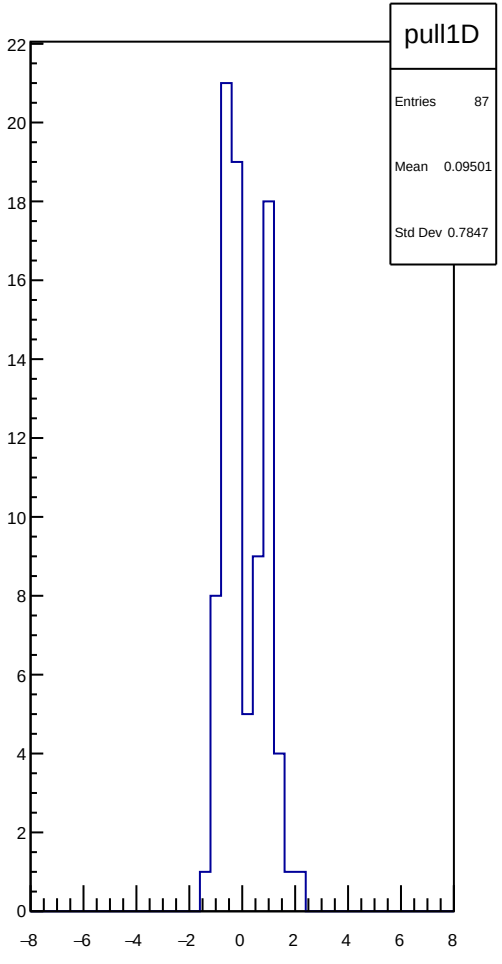

pull1D
Entries 87
Mean −0.003311
Std Dev 0.3153
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

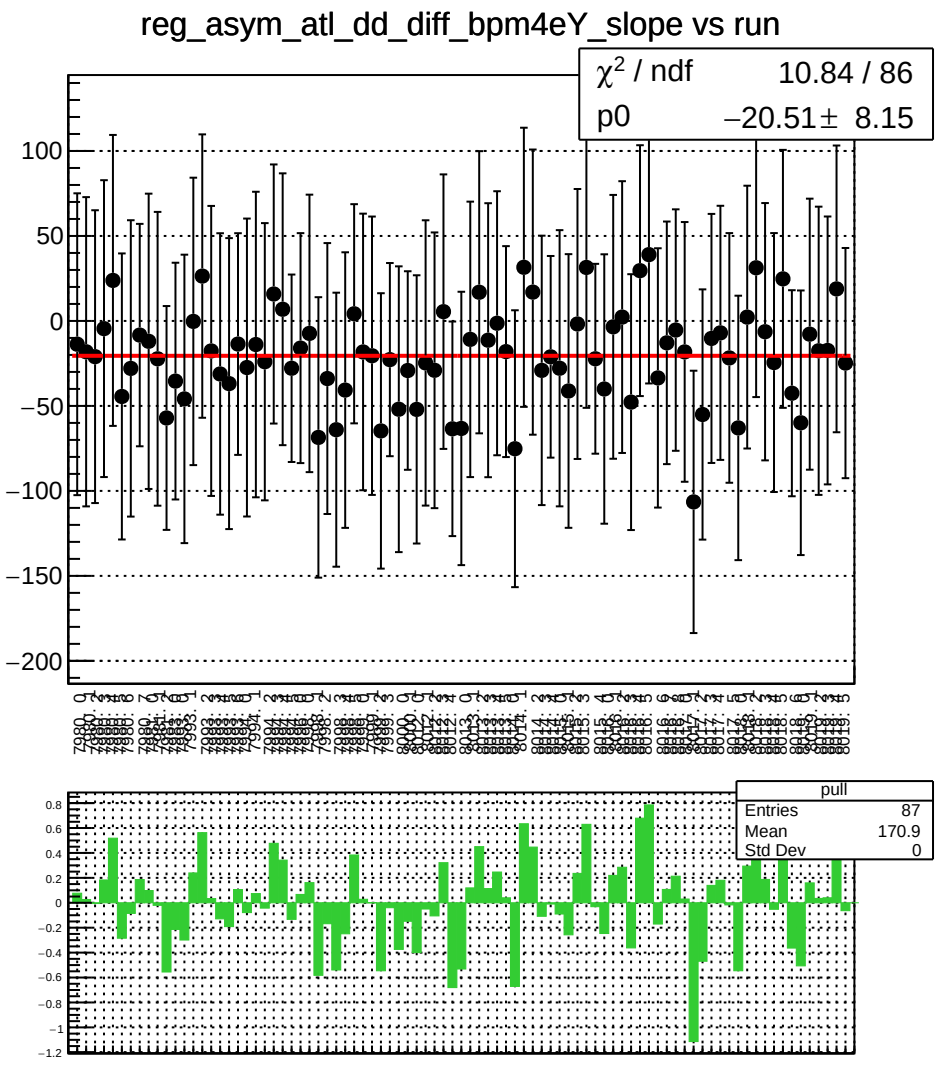

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 928.9 / 86
p0 −117.4 ± 0.3061
−110
−120
−130
−140
−150
pull
Entries 87
Mean 99.14
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 87
Mean −1.17
Std Dev 3.051
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

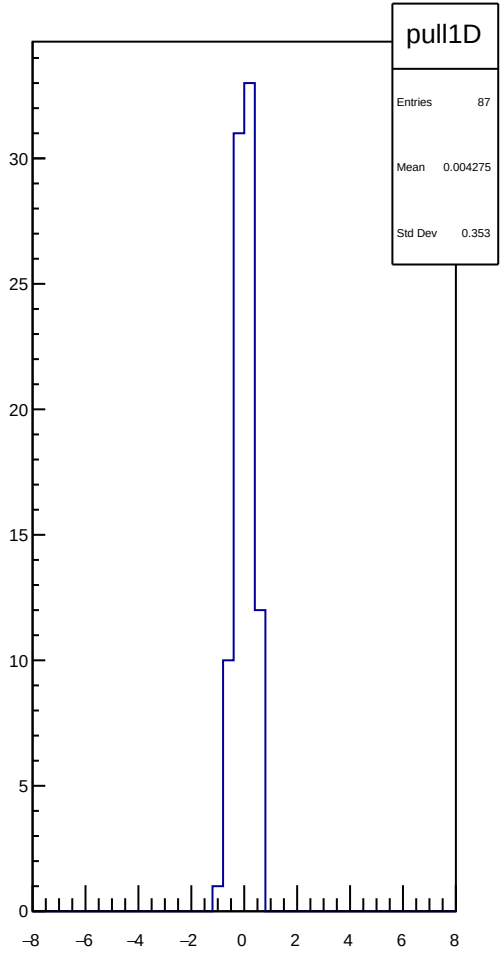

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 110.2 / 86
p0 209.8 ± 5.249
pull
Entries 87
Mean −64.08
Std Dev 0
pull1D
Entries 87
Mean −0.208
Std Dev 1.106

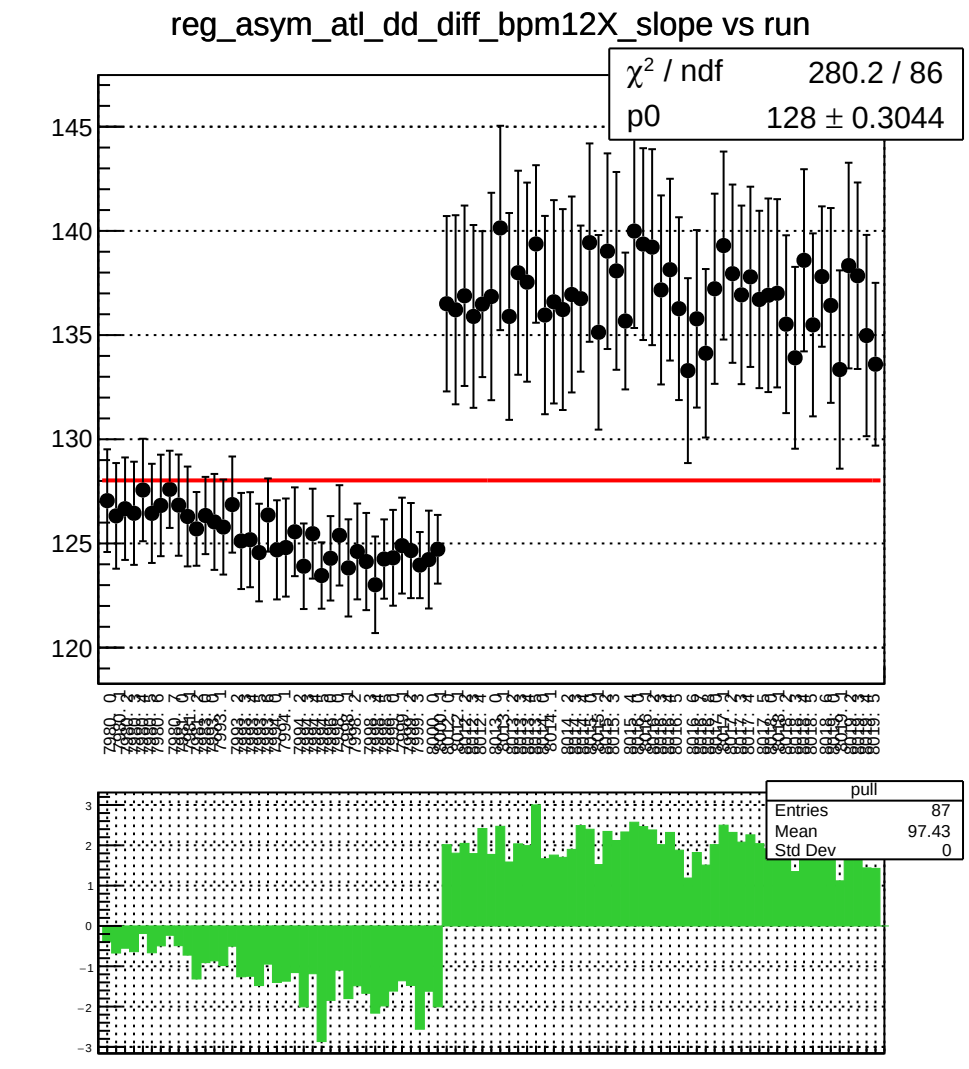

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.94 / 86
p0 −40.11 ± 7.471
pull
Entries 87
Mean 189.3
Std Dev 0
pull1D
Entries 87
Mean −0.005261
Std Dev 0.3545

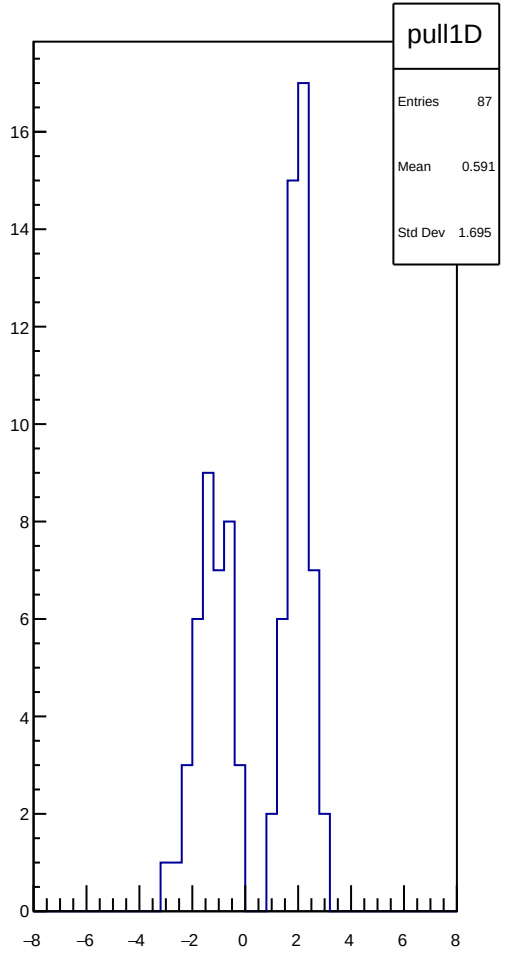

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.36 / 86
p0 −117.8 ± 5.335
pull
Entries 87
Mean −117.6
Std Dev 0

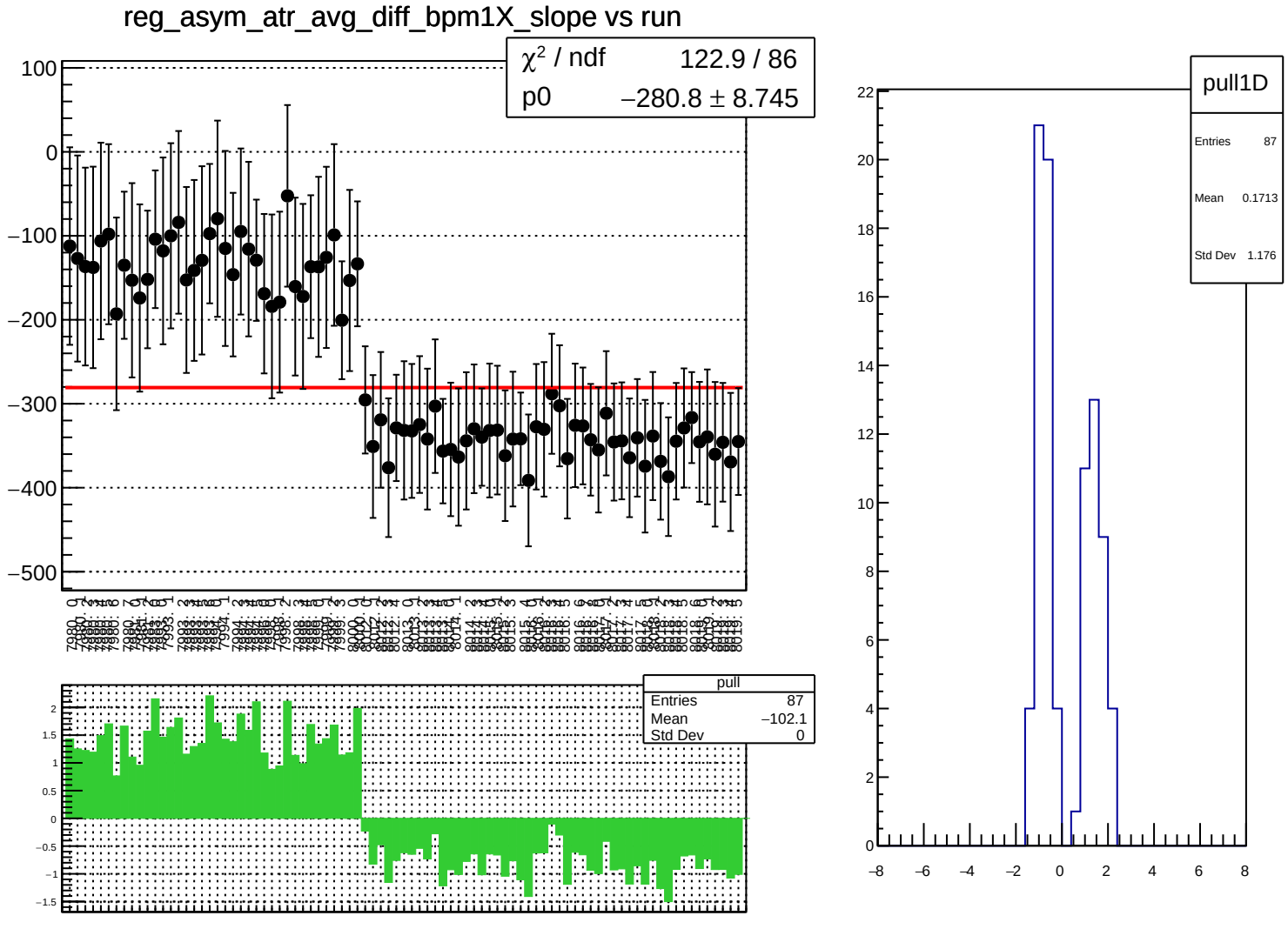

pull1D
Entries 87
Mean 0.09501
Std Dev 0.7847

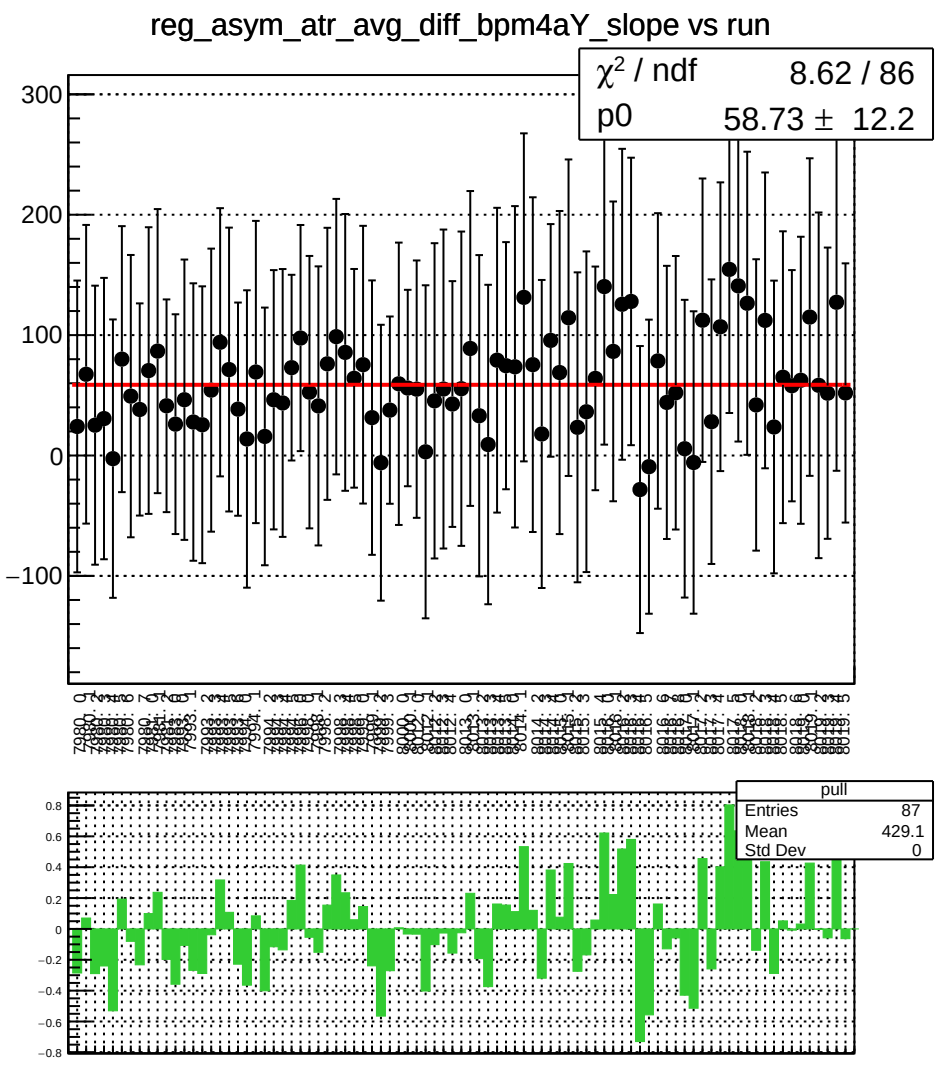

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.84 / 86
p0 −20.51 ± 8.15
pull
Entries 87
Mean 170.9
Std Dev 0

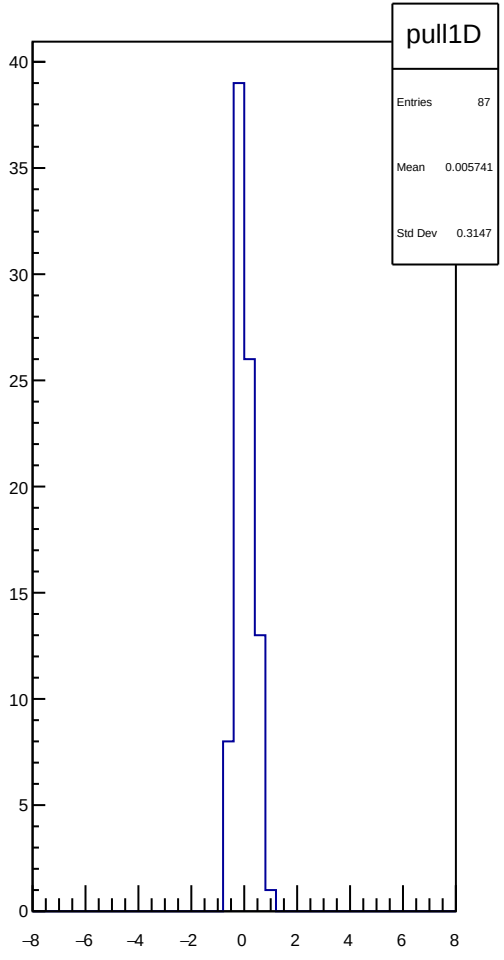

pull1D
Entries 87
Mean 0.004275
Std Dev 0.353

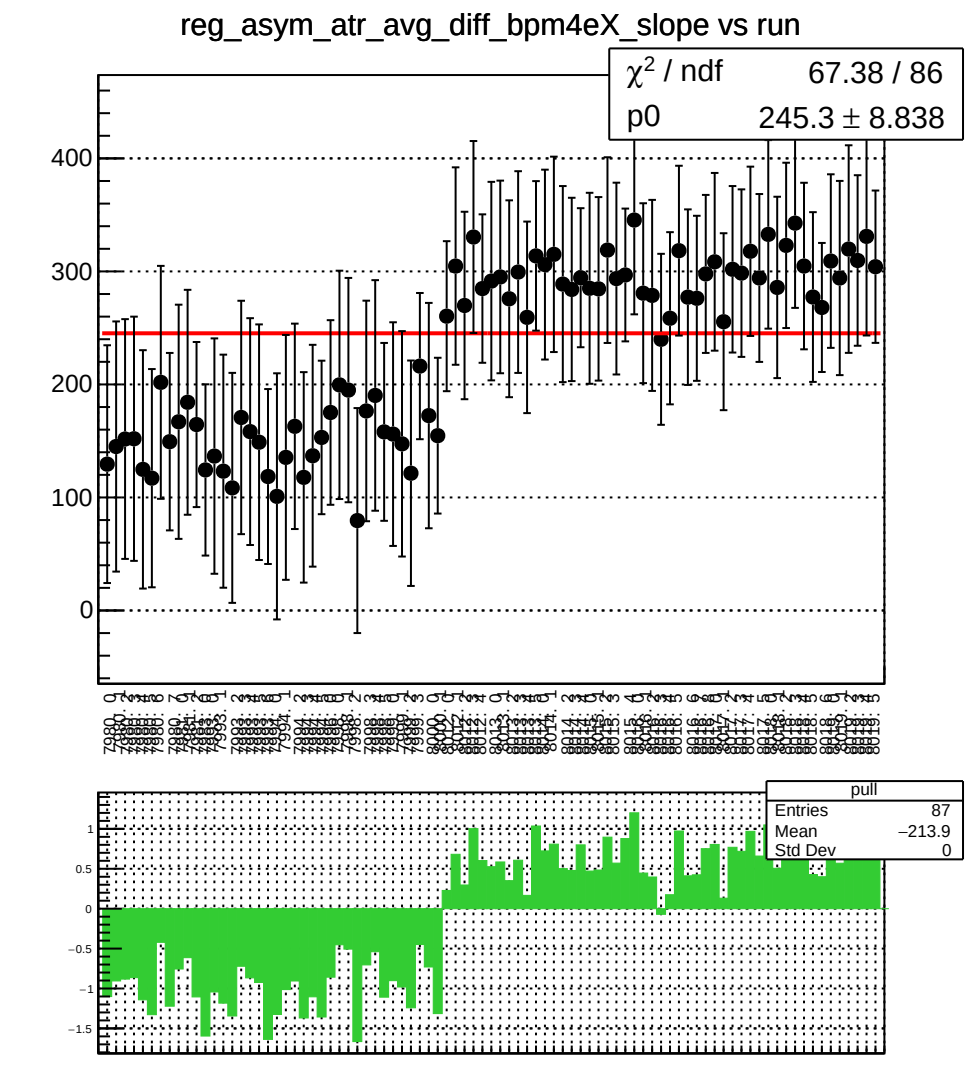

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 280.2 / 86
p0 128 ± 0.3044
145
140
135
130
125
120
pull
Entries 87
Mean 97.43
Std Dev 0
3
2
1
0
−1
−2
−3

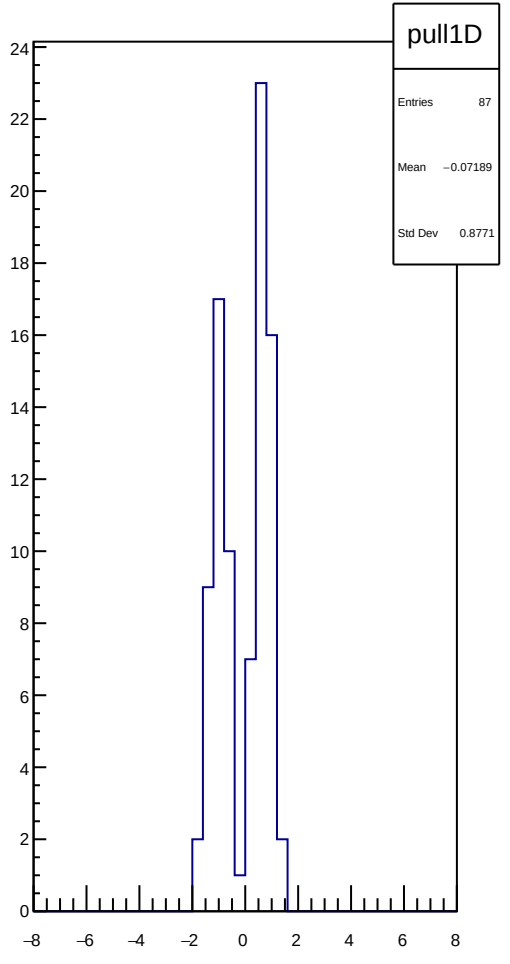

pull1D
Entries 87
Mean 0.591
Std Dev 1.695
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

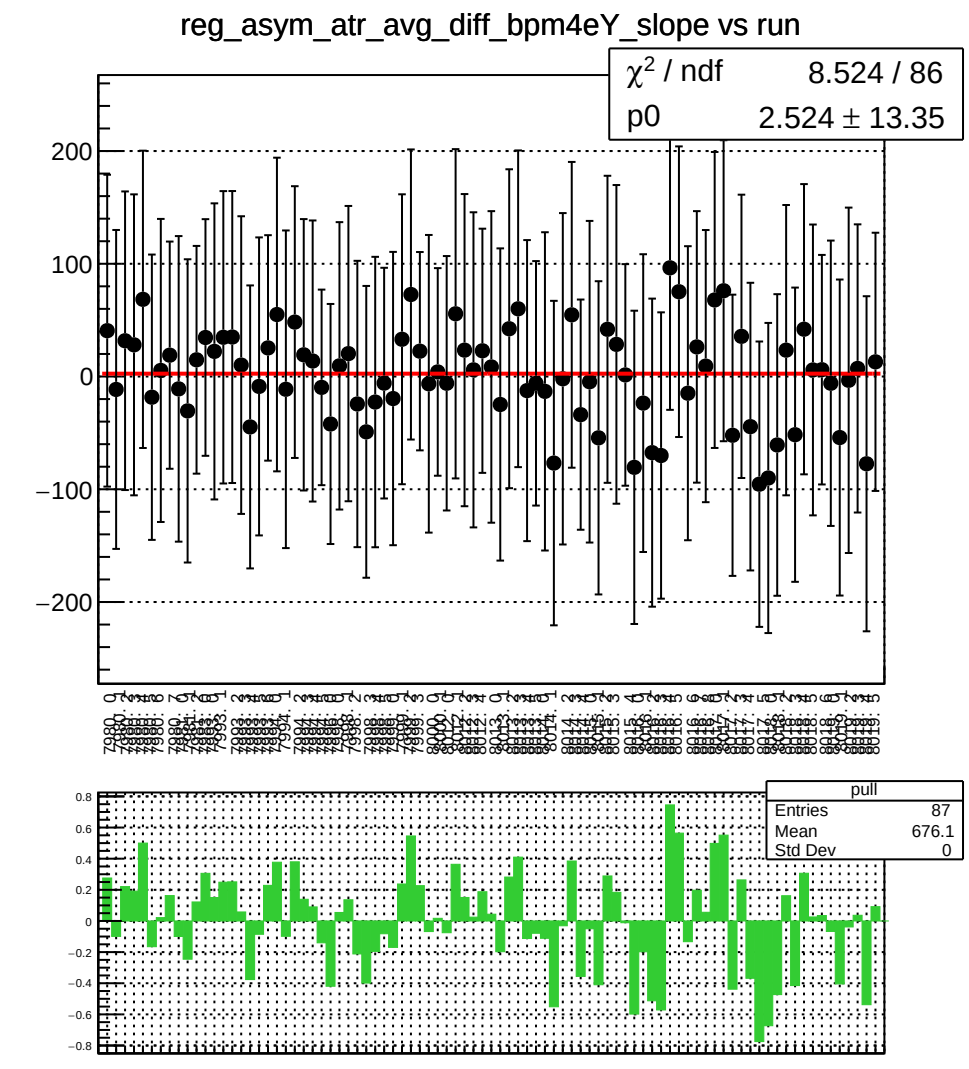

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 122.9 / 86
p0 −280.8 ± 8.745
pull
Entries 87
Mean −102.1
Std Dev 0
pull1D
Entries 87
Mean 0.1713
Std Dev 1.176

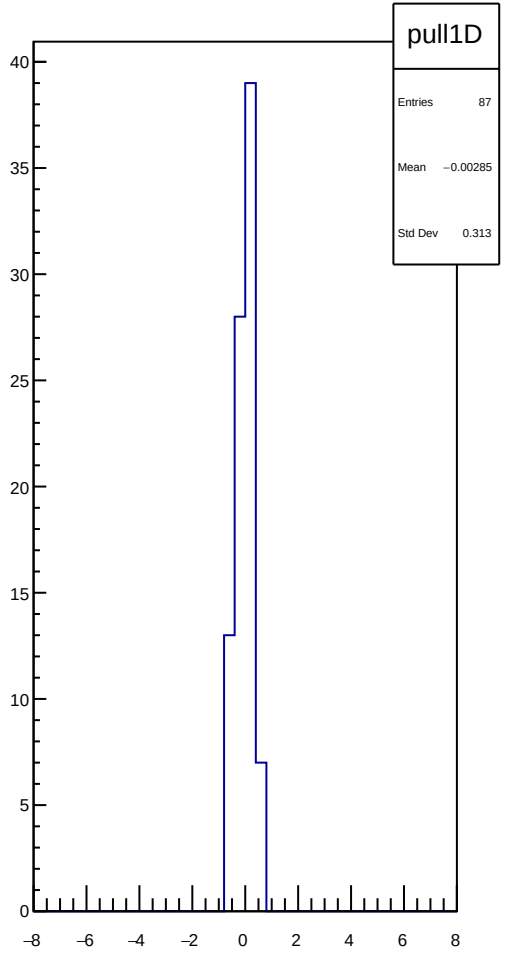

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.62 / 86
p0 58.73 ± 12.2
pull
Entries 87
Mean 429.1
Std Dev 0

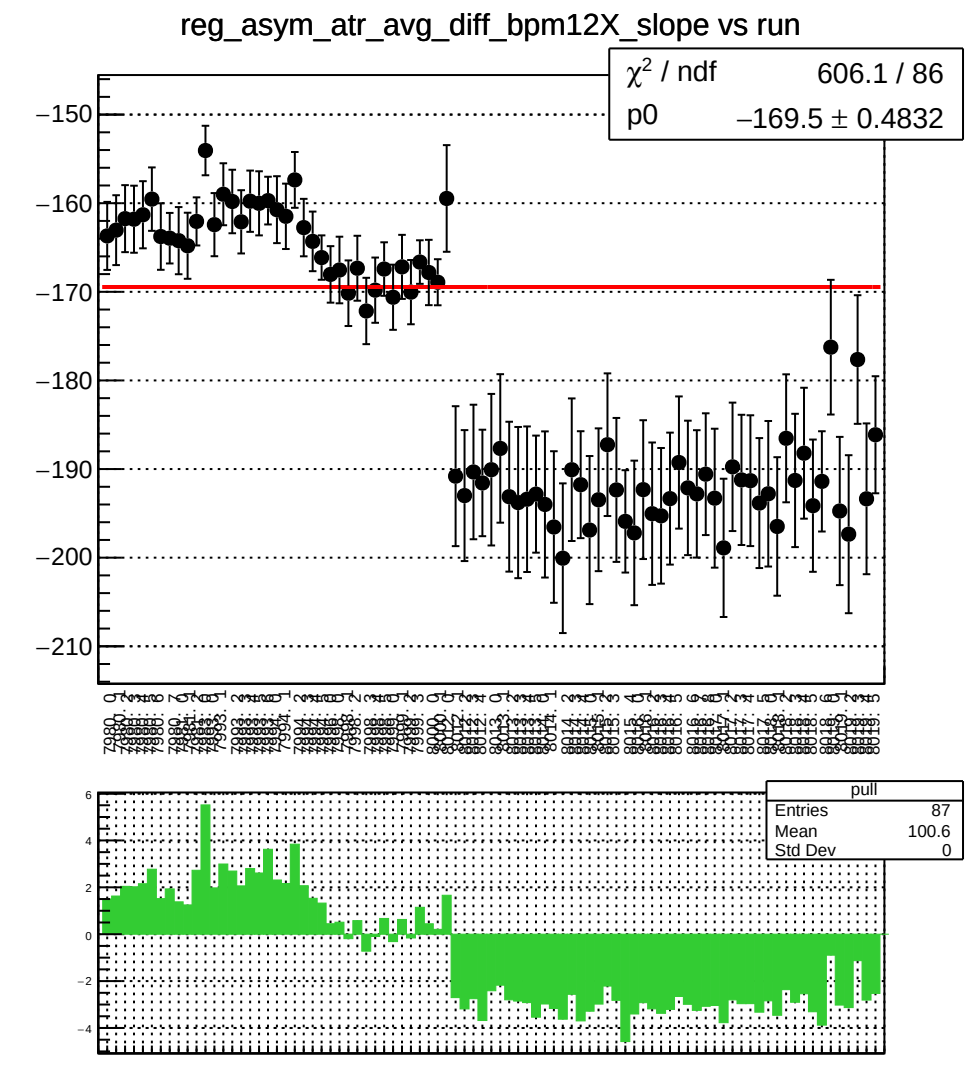

pull1D
Entries 87
Mean 0.005741
Std Dev 0.3147

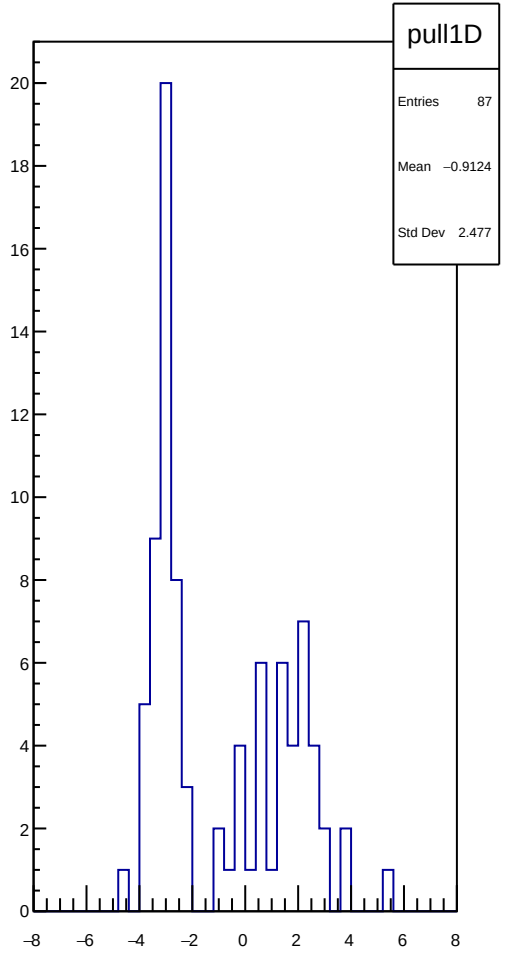

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.38 / 86
p0 245.3 ± 8.838
400
300
200
100
0
pull
Entries 87
Mean −213.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

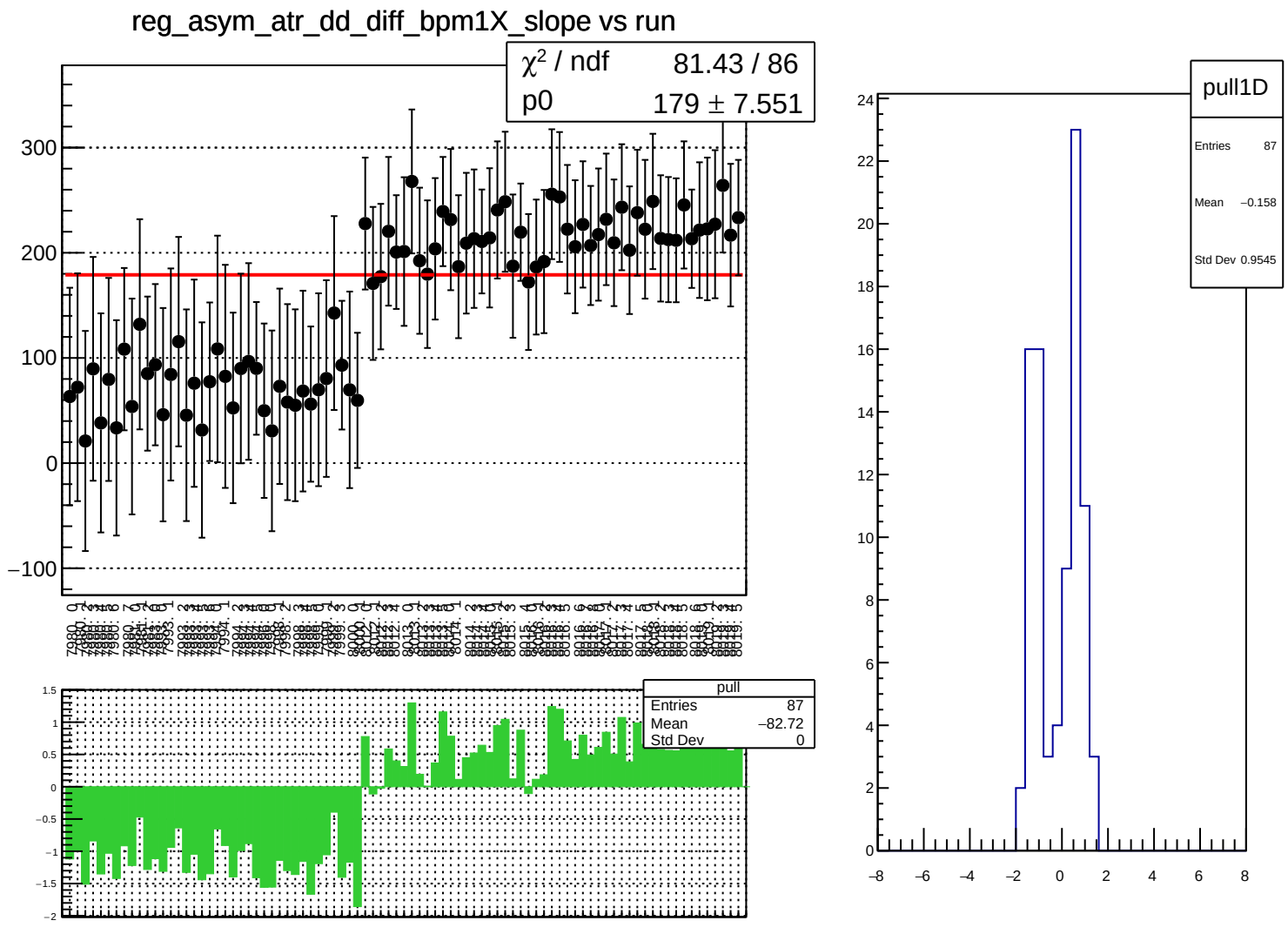

pull1D
Entries 87
Mean −0.07189
Std Dev 0.8771
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

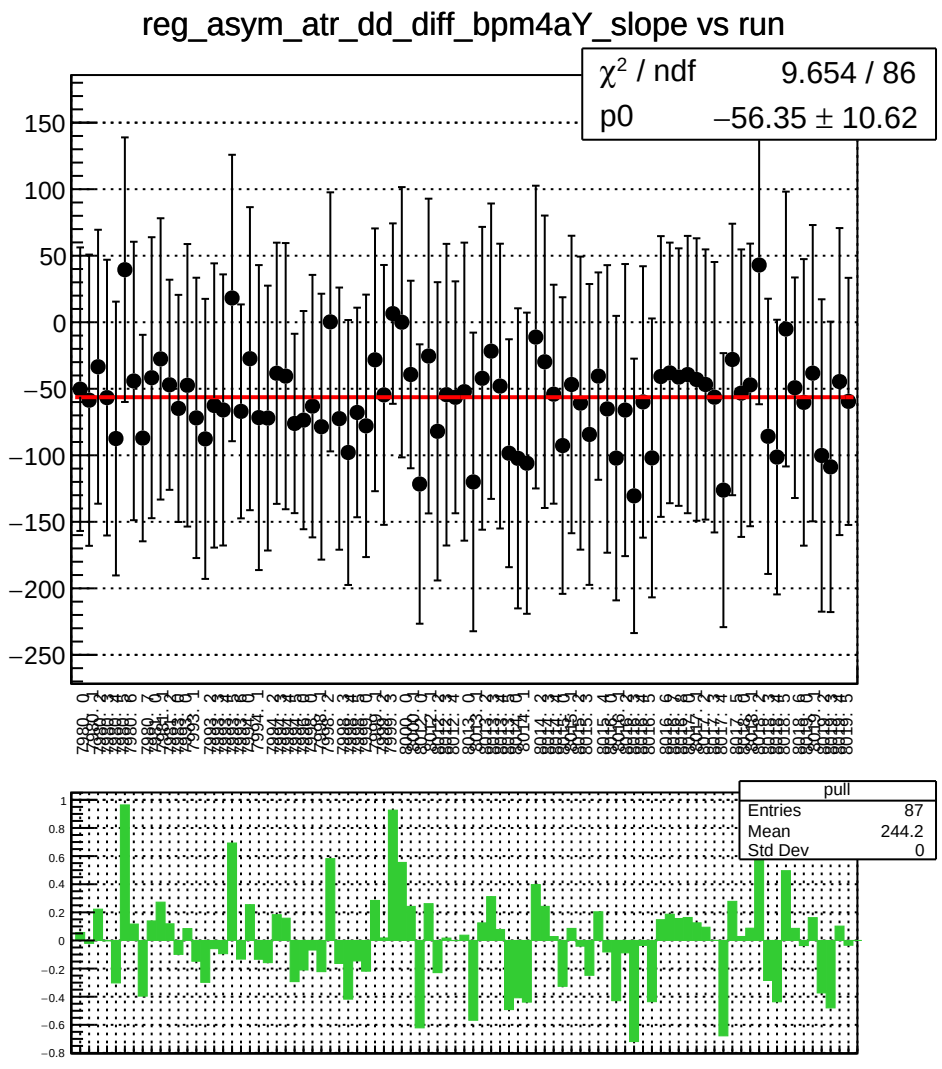

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.524 / 86
p0 2.524 ± 13.35
200
100
0
−100
−200
pull
Entries 87
Mean 676.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

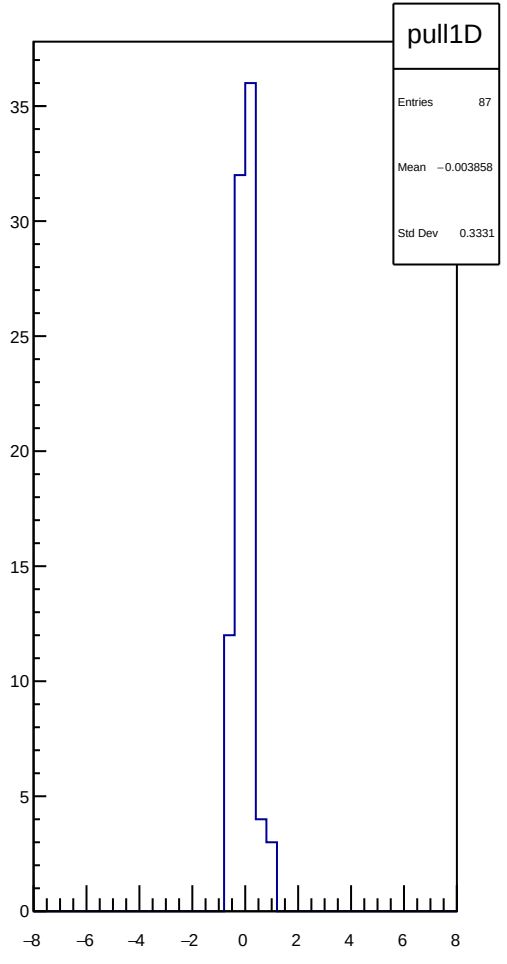

pull1D
Entries 87
Mean −0.00285
Std Dev 0.313
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

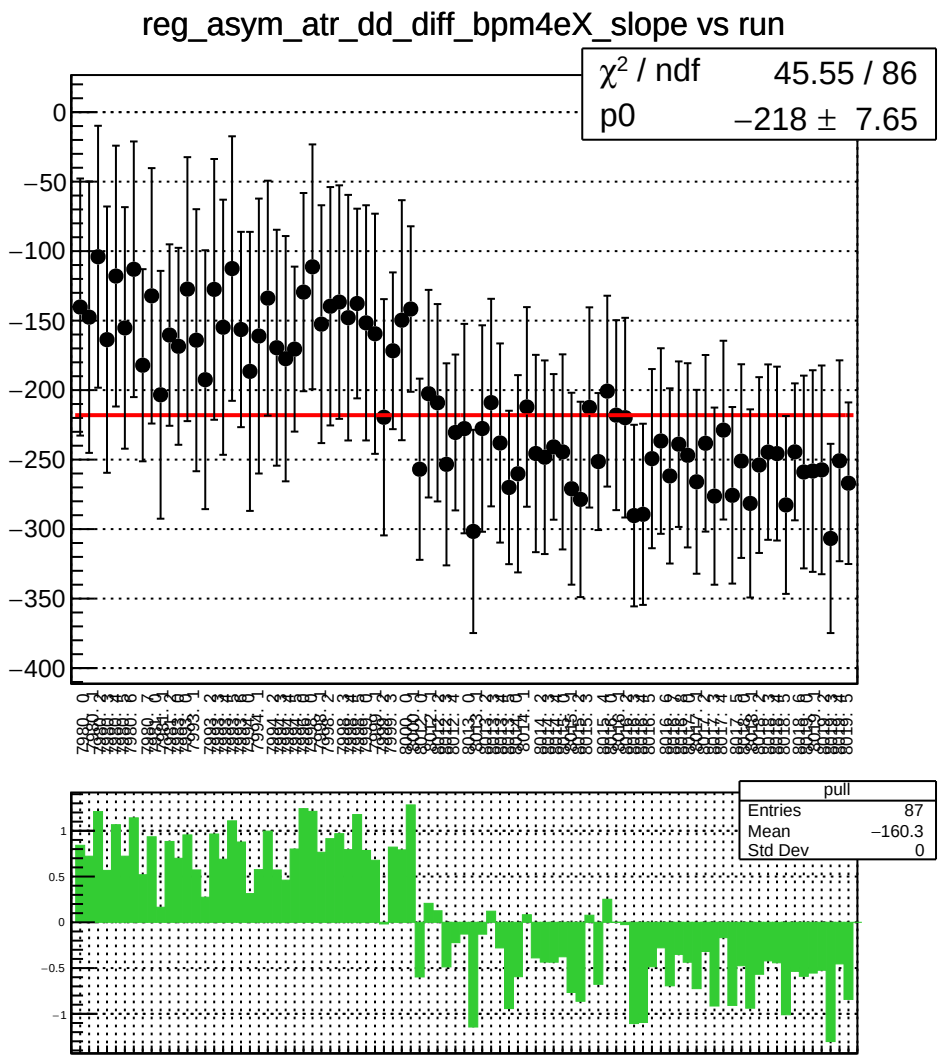

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 606.1 / 86
p0 −169.5 ± 0.4832
−150
−160
−170
−180
−190
−200
−210
pull
Entries 87
Mean 100.6
Std Dev 0
6
4
2
0
−2
−4

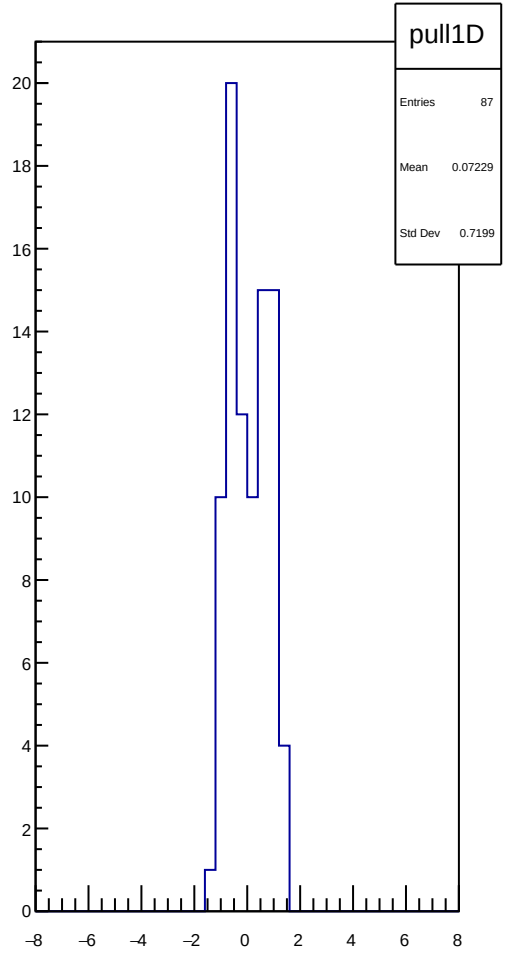

pull1D
Entries 87
Mean −0.9124
Std Dev 2.477
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

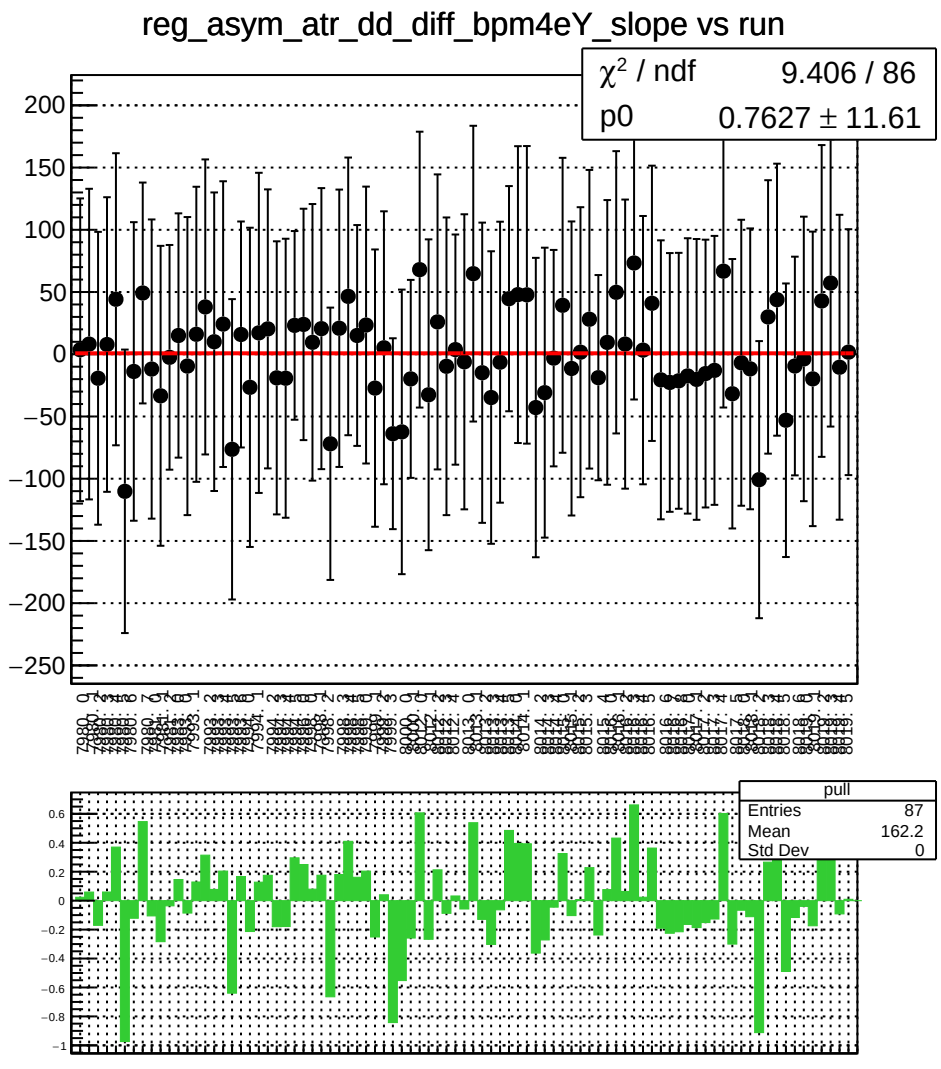

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 81.43 / 86
p0 179 ± 7.551
300
200
100
0
−100
pull
Entries 87
Mean −82.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.158
Std Dev 0.9545
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

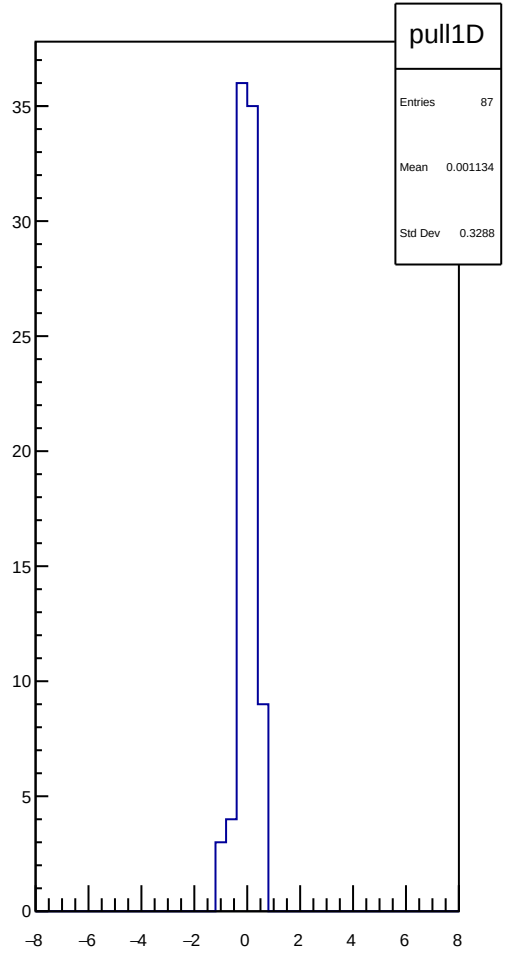

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.654 / 86
p0 −56.35 ± 10.62
pull
Entries 87
Mean 244.2
Std Dev 0

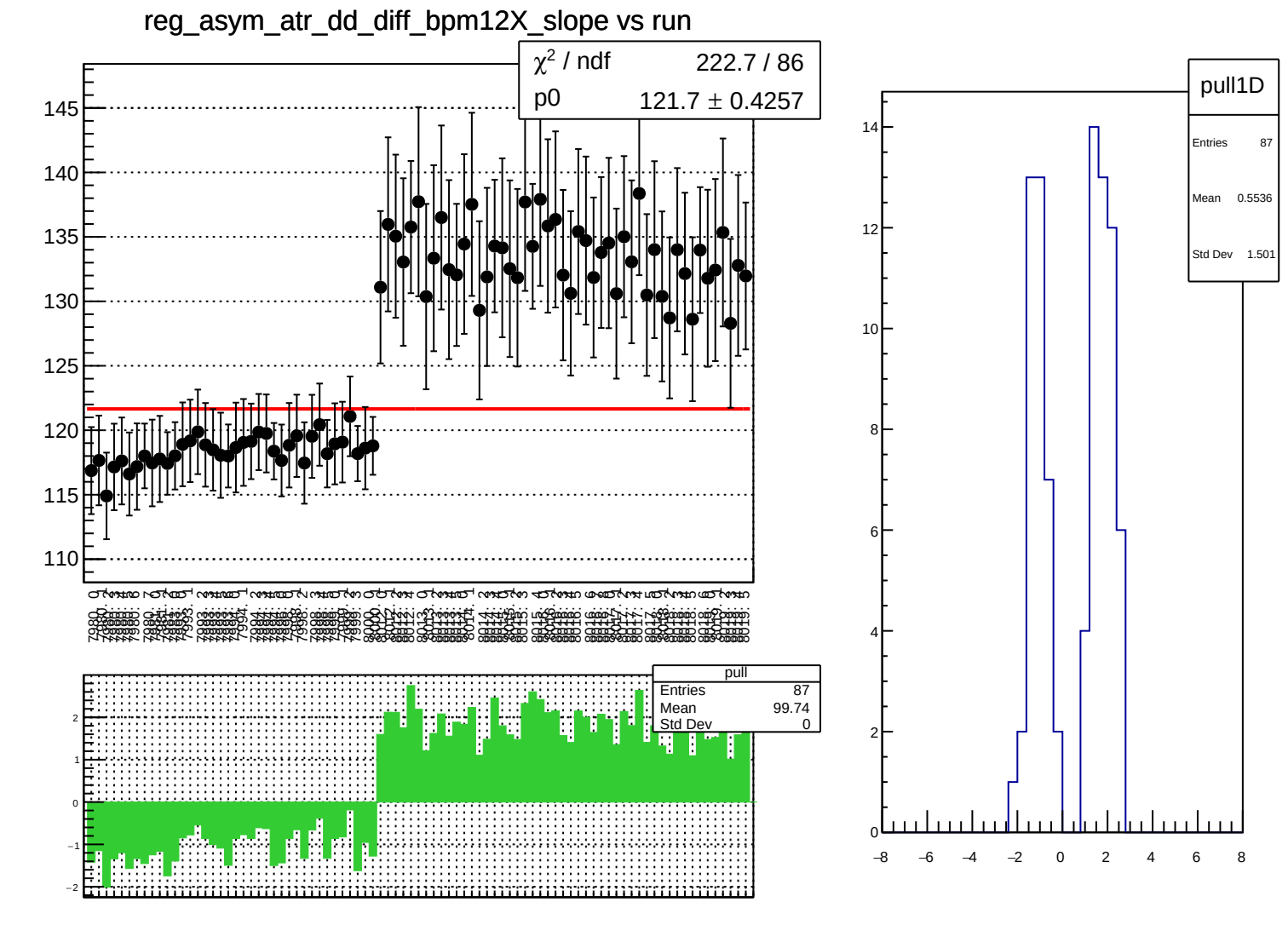

pull1D
Entries 87
Mean −0.003858
Std Dev 0.3331

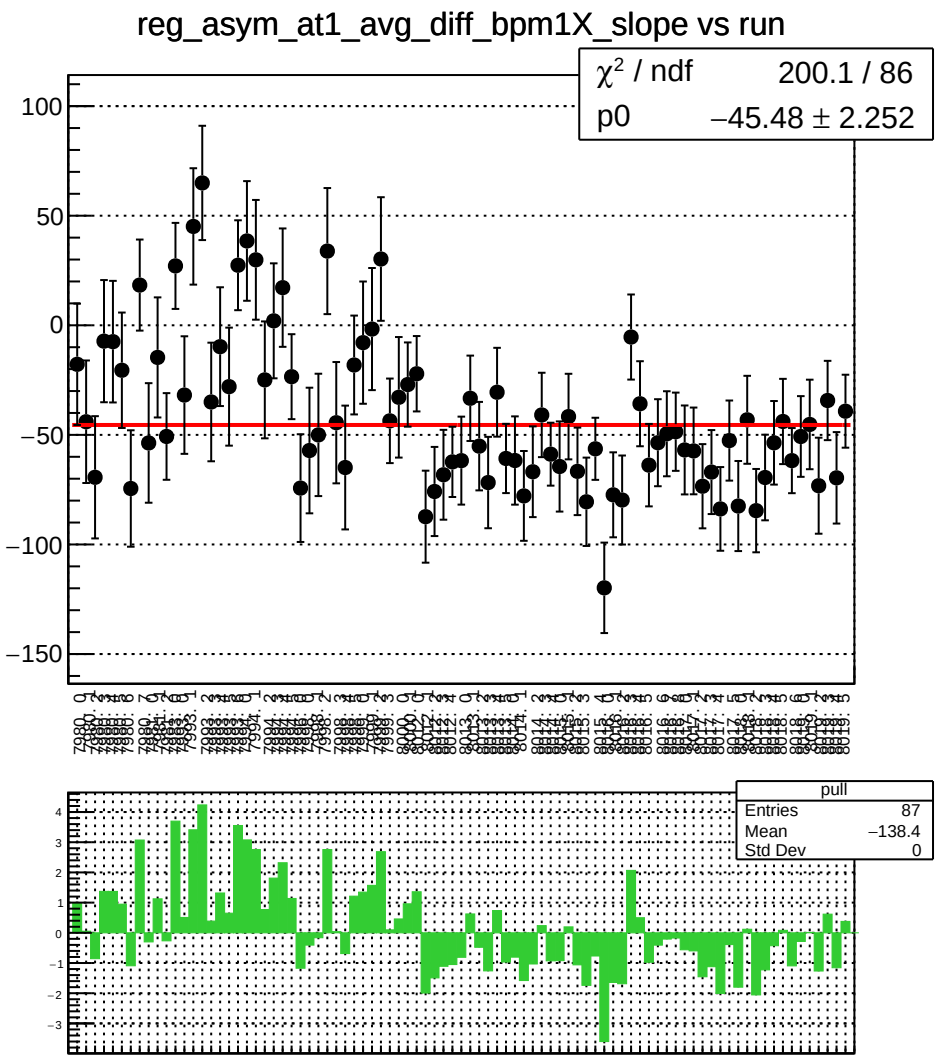

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.55 / 86
p0 −218 ± 7.65
pull
Entries 87
Mean −160.3
Std Dev 0

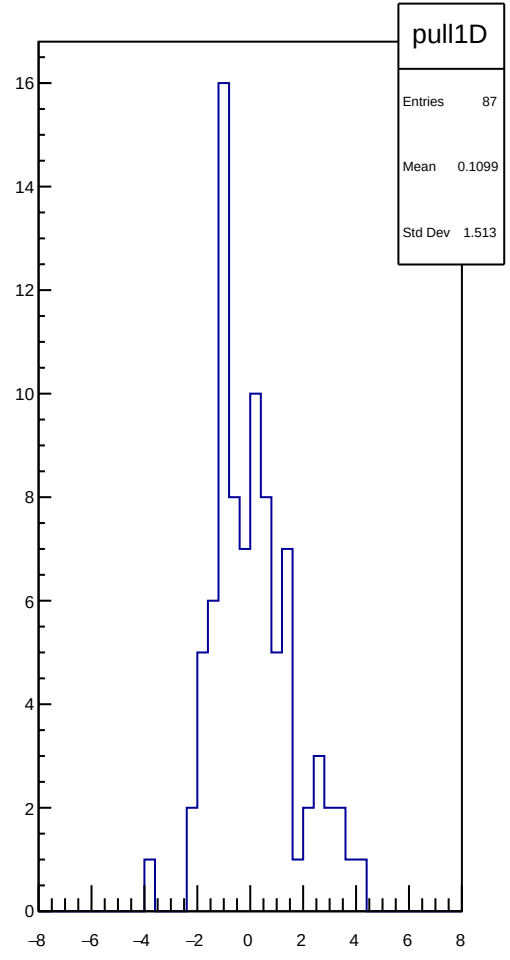

pull1D
Entries 87
Mean 0.07229
Std Dev 0.7199

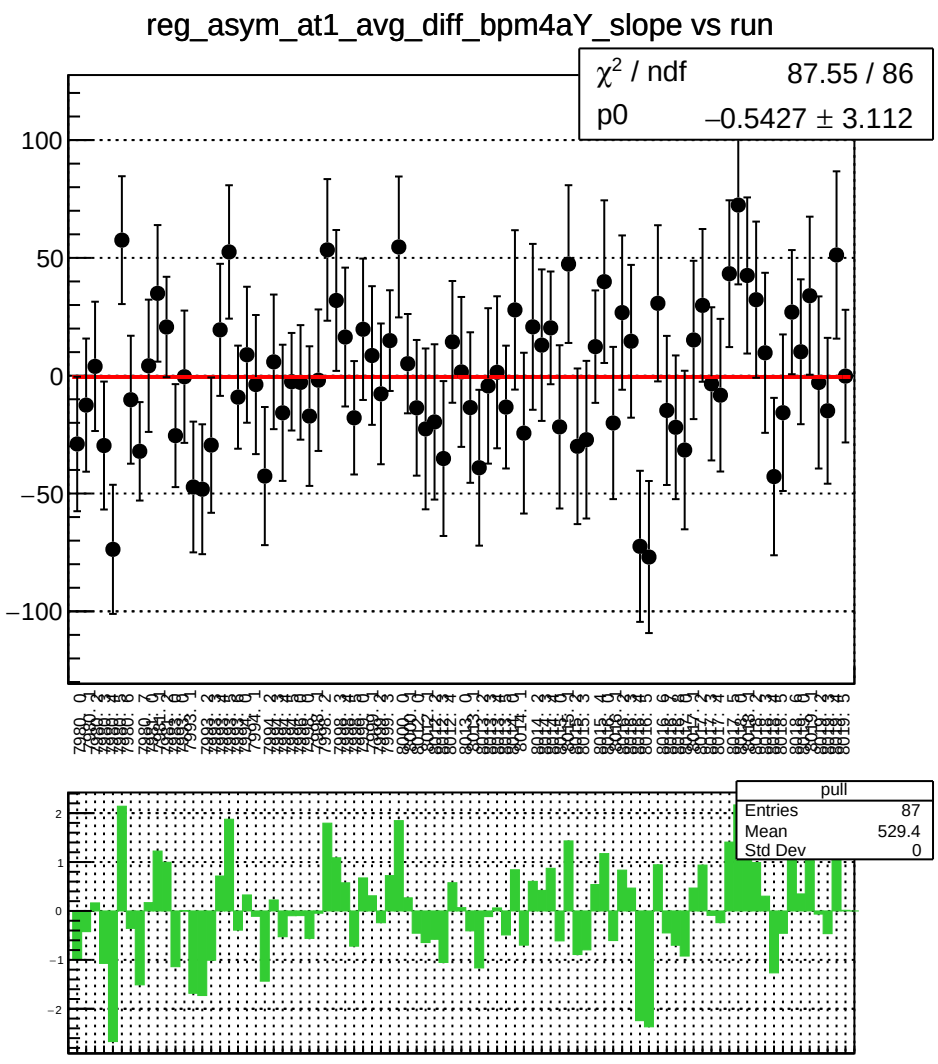

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.406 / 86
p0 0.7627 ± 11.61
pull
Entries 87
Mean 162.2
Std Dev 0

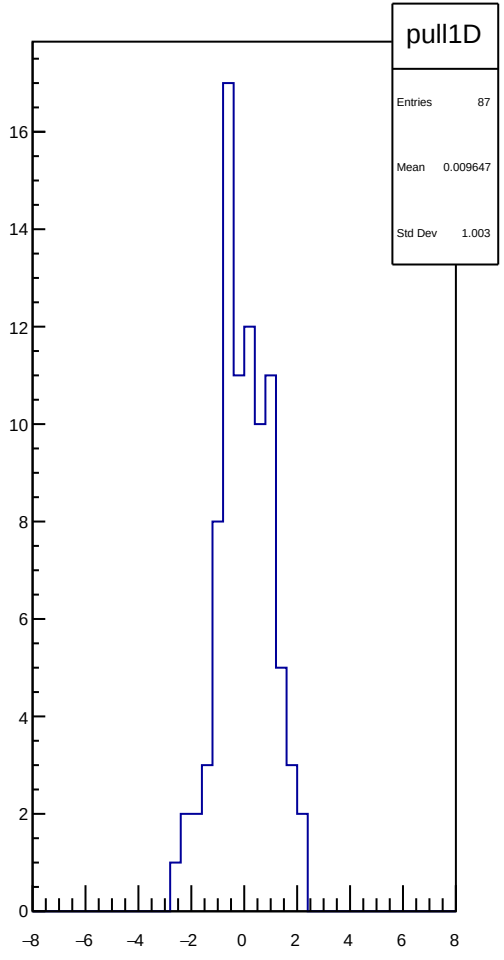

pull1D
Entries 87
Mean 0.001134
Std Dev 0.3288

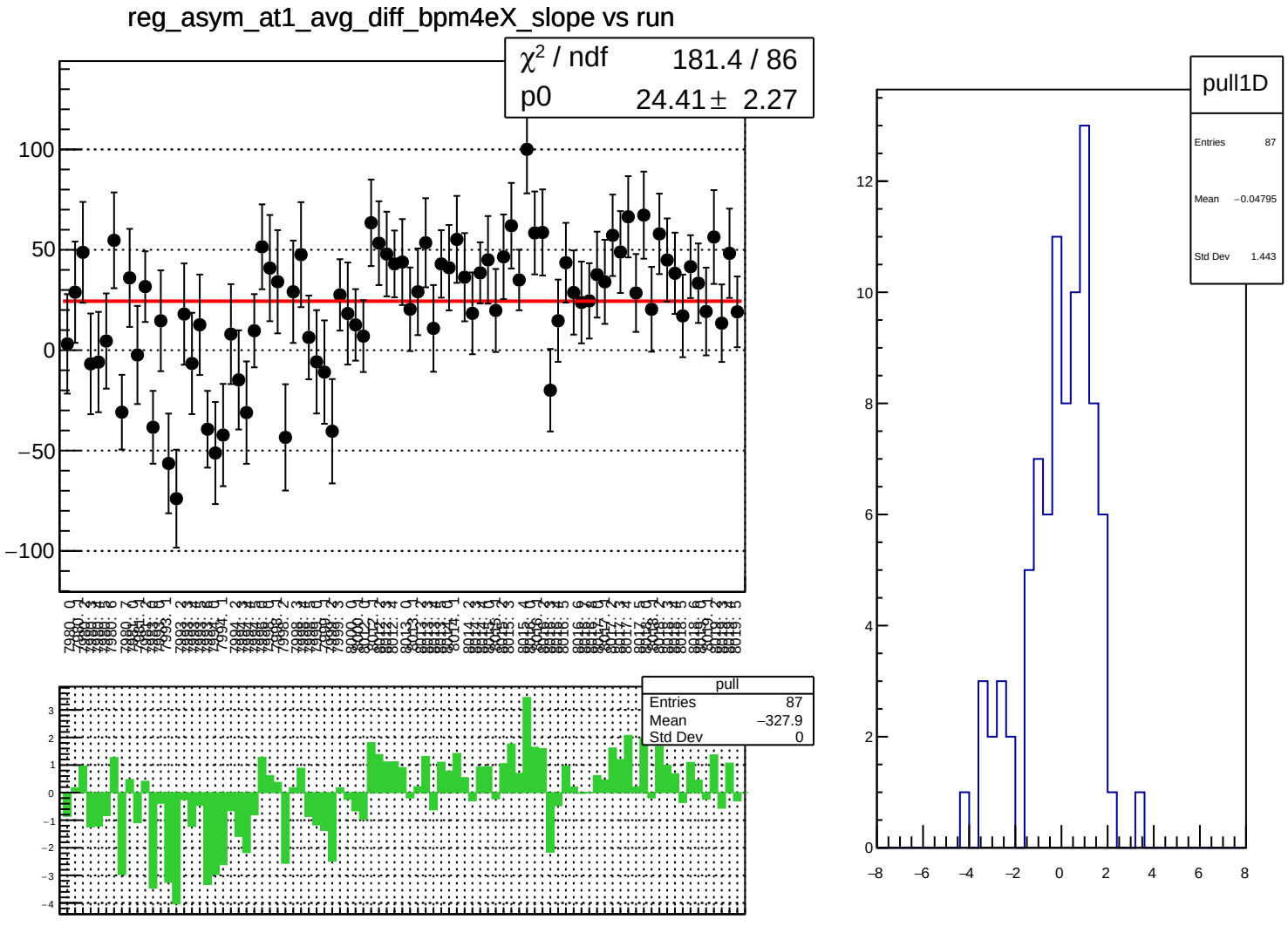

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 222.7 / 86
p0 121.7 ± 0.4257
pull
Entries 87
Mean 99.74
Std Dev 0
pull1D
Entries 87
Mean 0.5536
Std Dev 1.501

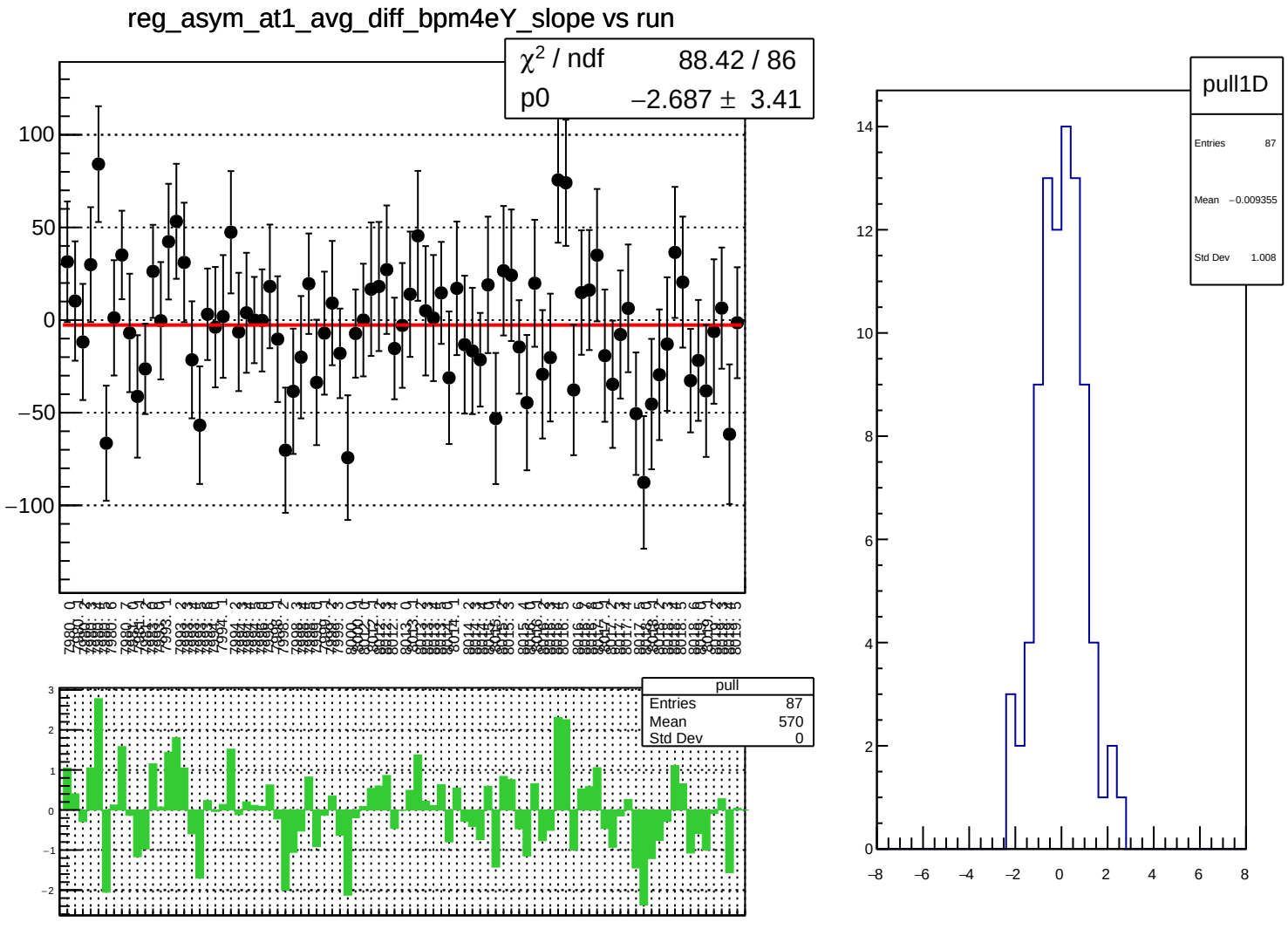

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 200.1 / 86
p0 −45.48 ± 2.252
100
50
0
−50
−100
−150
pull
Entries 87
Mean −138.4
Std Dev 0
4
3
2
1
0
−1
−2
−3

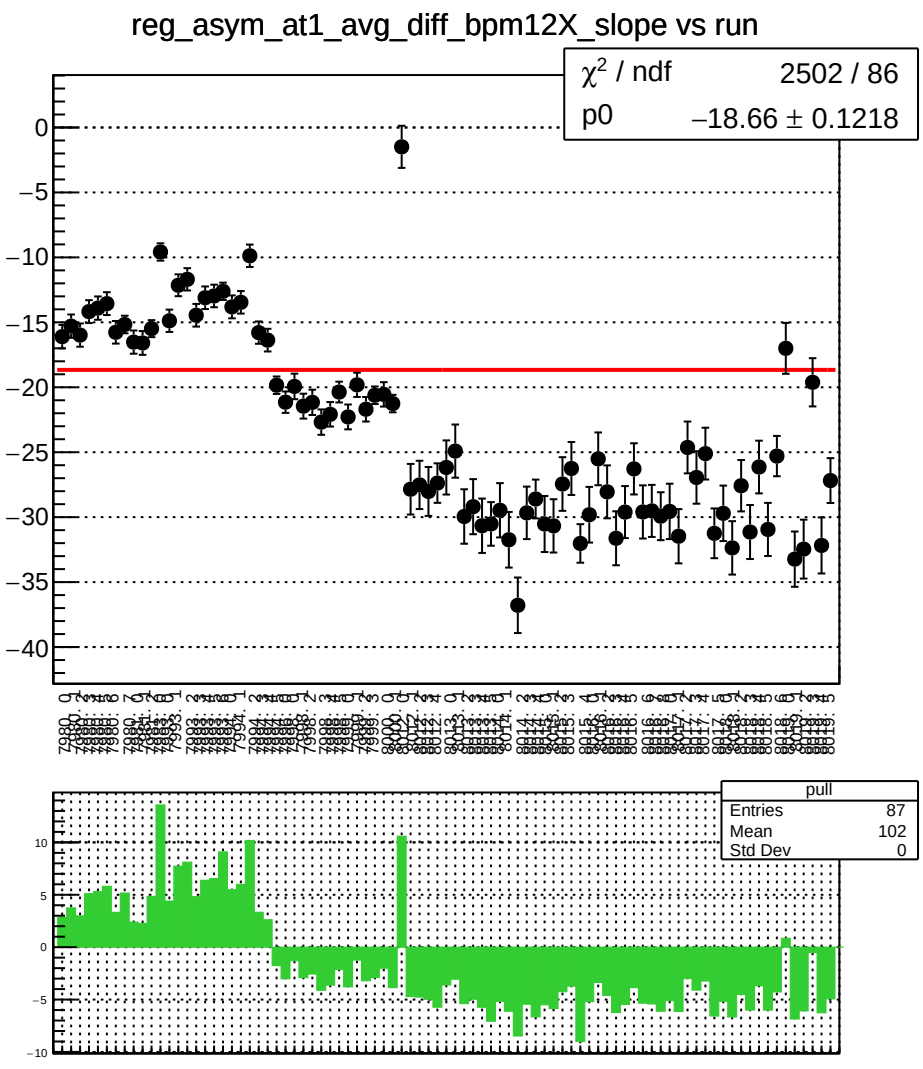

pull1D
Entries 87
Mean 0.1099
Std Dev 1.513
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

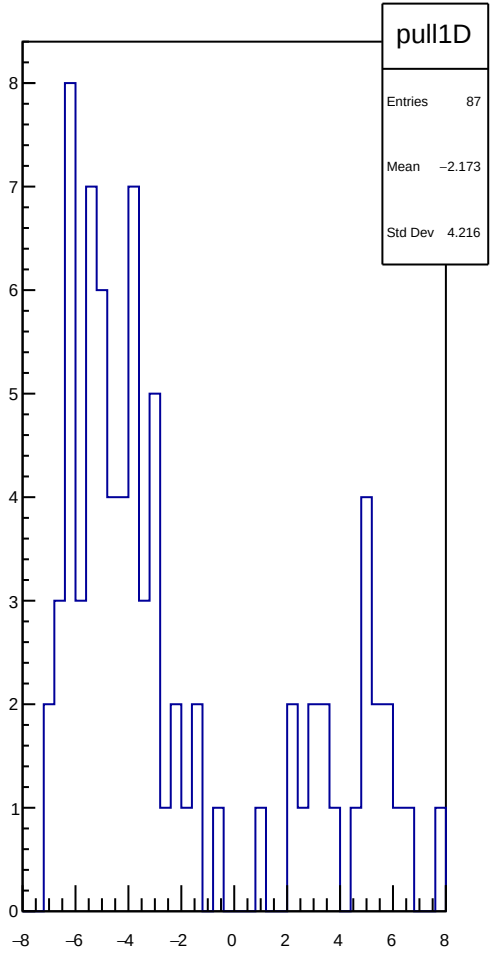

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 87.55 / 86
p0 −0.5427 ± 3.112
100
50
0
−50
−100
pull
Entries 87
Mean 529.4
Std Dev 0
2
1
0
−1
−2

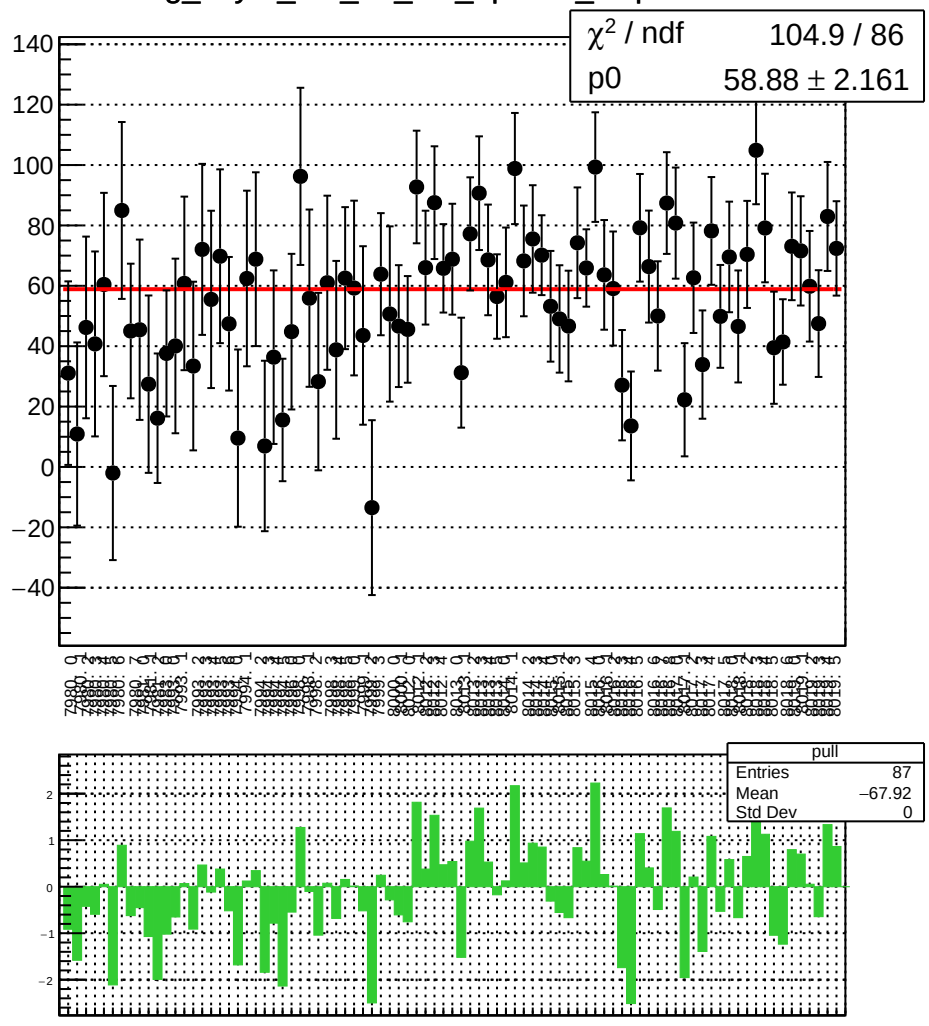

pull1D
Entries 87
Mean 0.009647
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

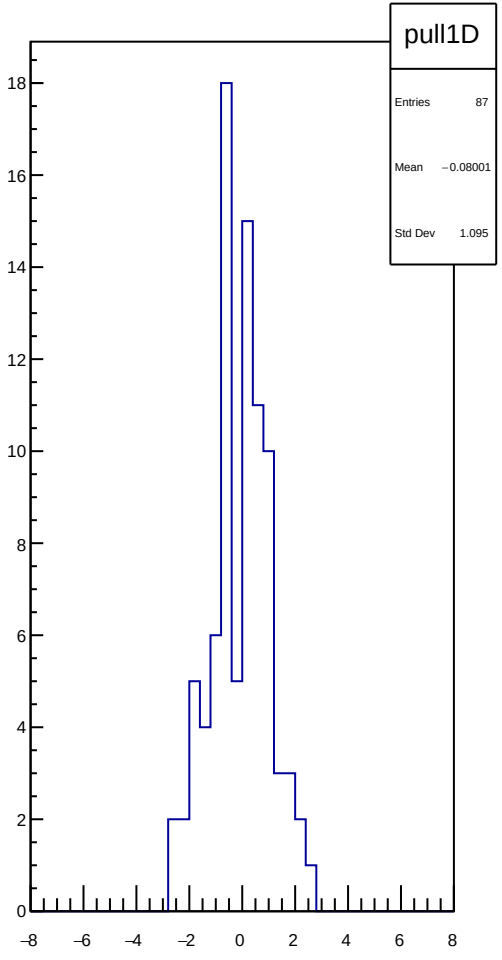

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 181.4 / 86
p0 24.41 ± 2.27
pull
Entries 87
Mean −327.9
Std Dev 0
pull1D
Entries 87
Mean −0.04795
Std Dev 1.443

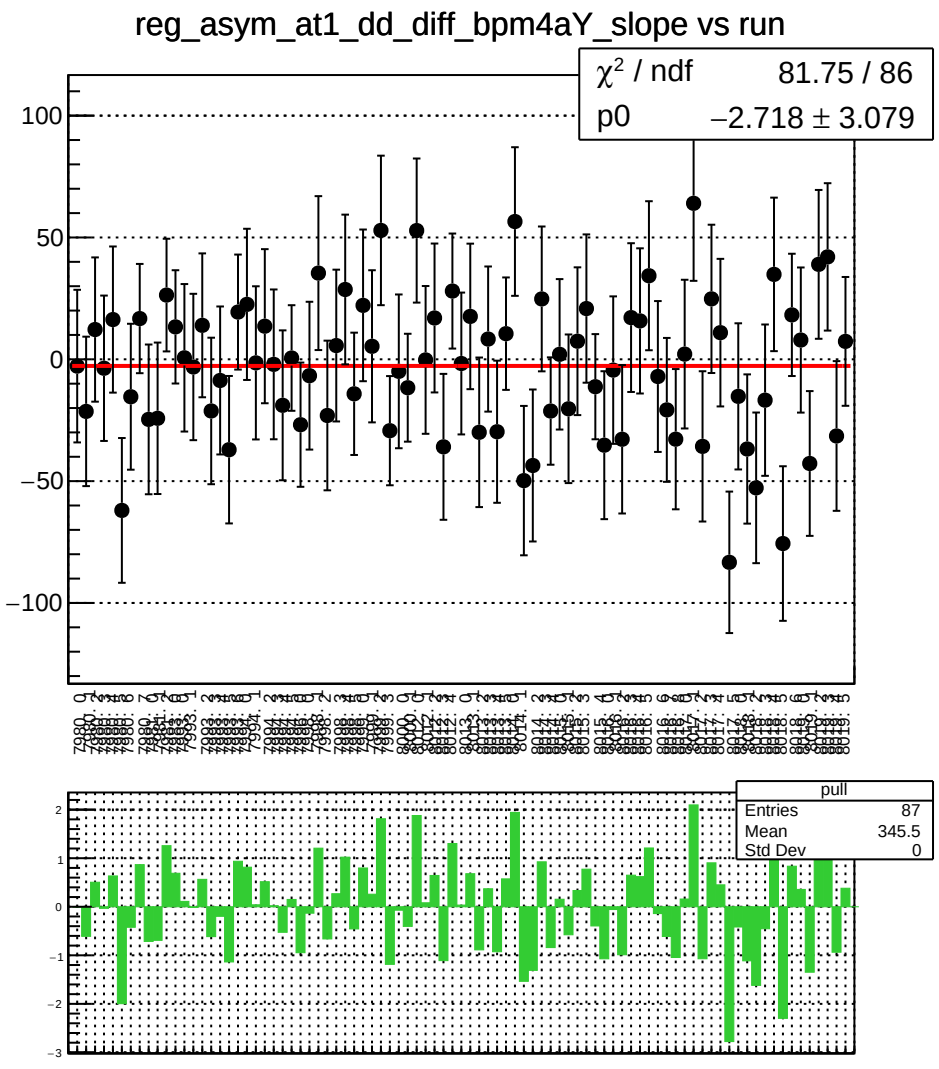

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.42 / 86
p0 −2.687 ± 3.41
pull
Entries 87
Mean 570
Std Dev 0
pull1D
Entries 87
Mean −0.009355
Std Dev 1.008

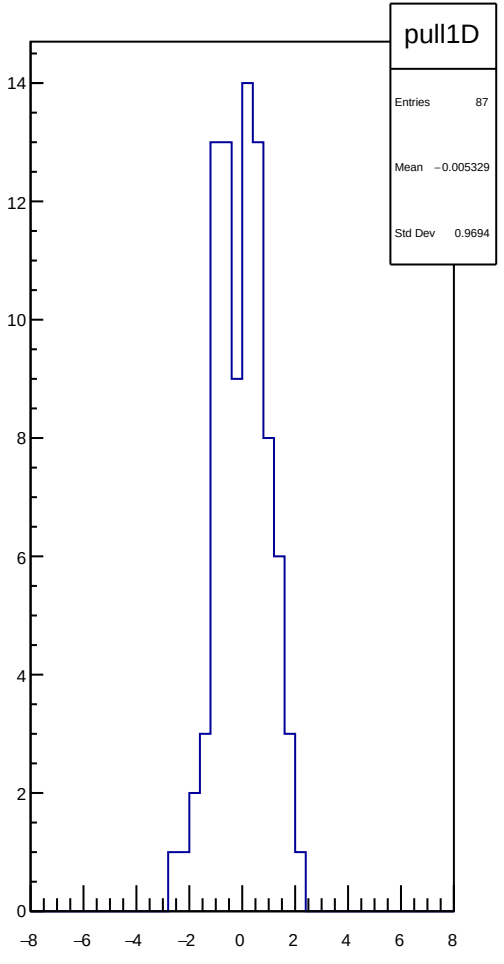

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 2502 / 86
p0 −18.66 ± 0.1218
pull
Entries 87
Mean 102
Std Dev 0

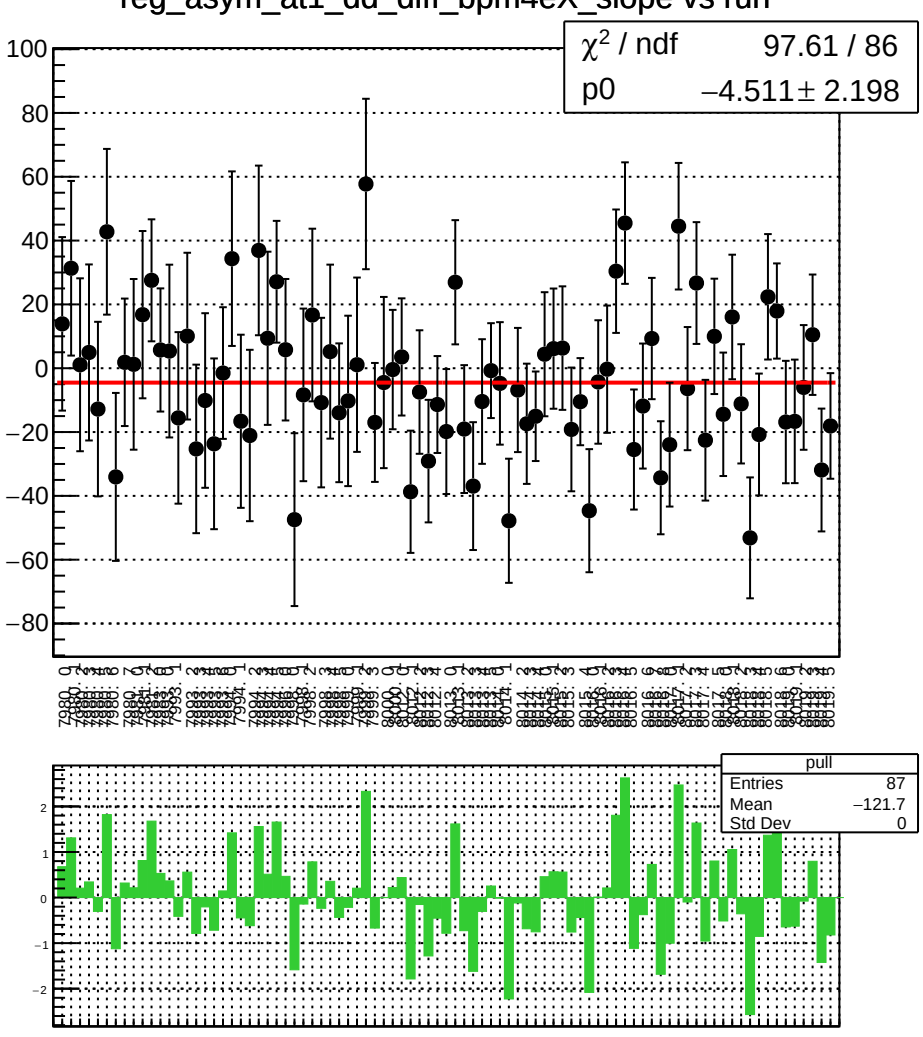

pull1D
Entries 87
Mean −2.173
Std Dev 4.216

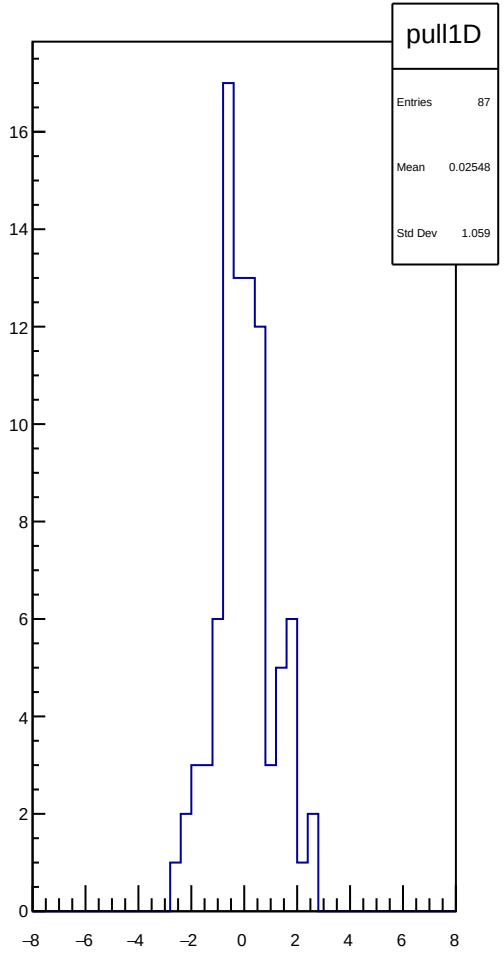

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 104.9 / 86
p0 58.88 ± 2.161
pull
Entries 87
Mean −67.92
Std Dev 0

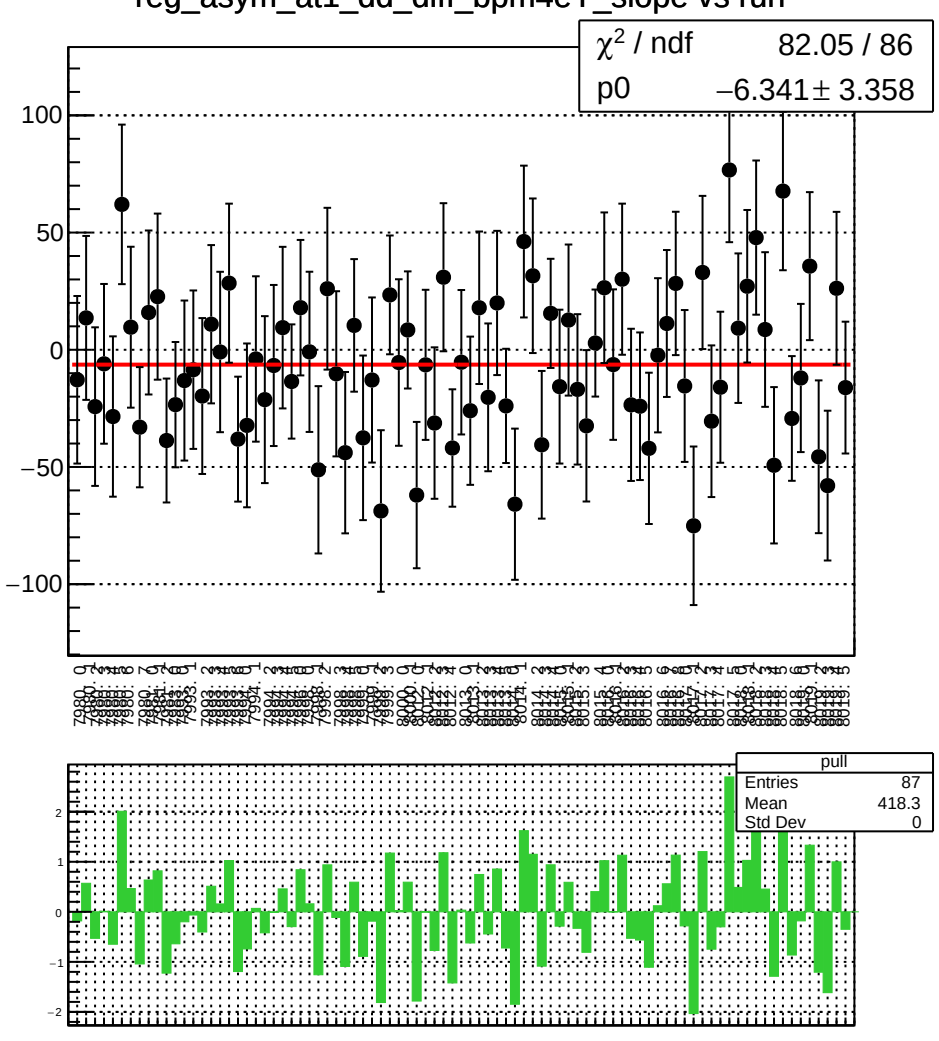

pull1D
Entries 87
Mean −0.08001
Std Dev 1.095

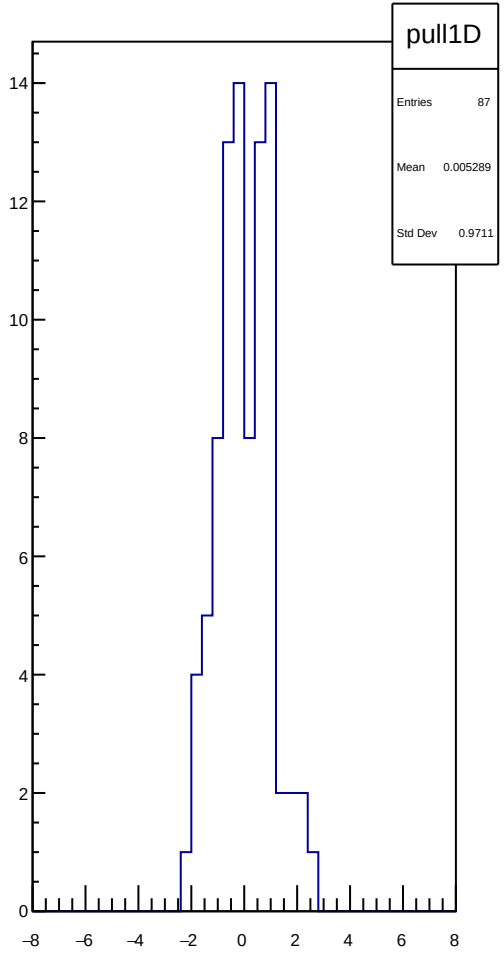

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.75 / 86
p0 −2.718 ± 3.079
pull
Entries 87
Mean 345.5
Std Dev 0

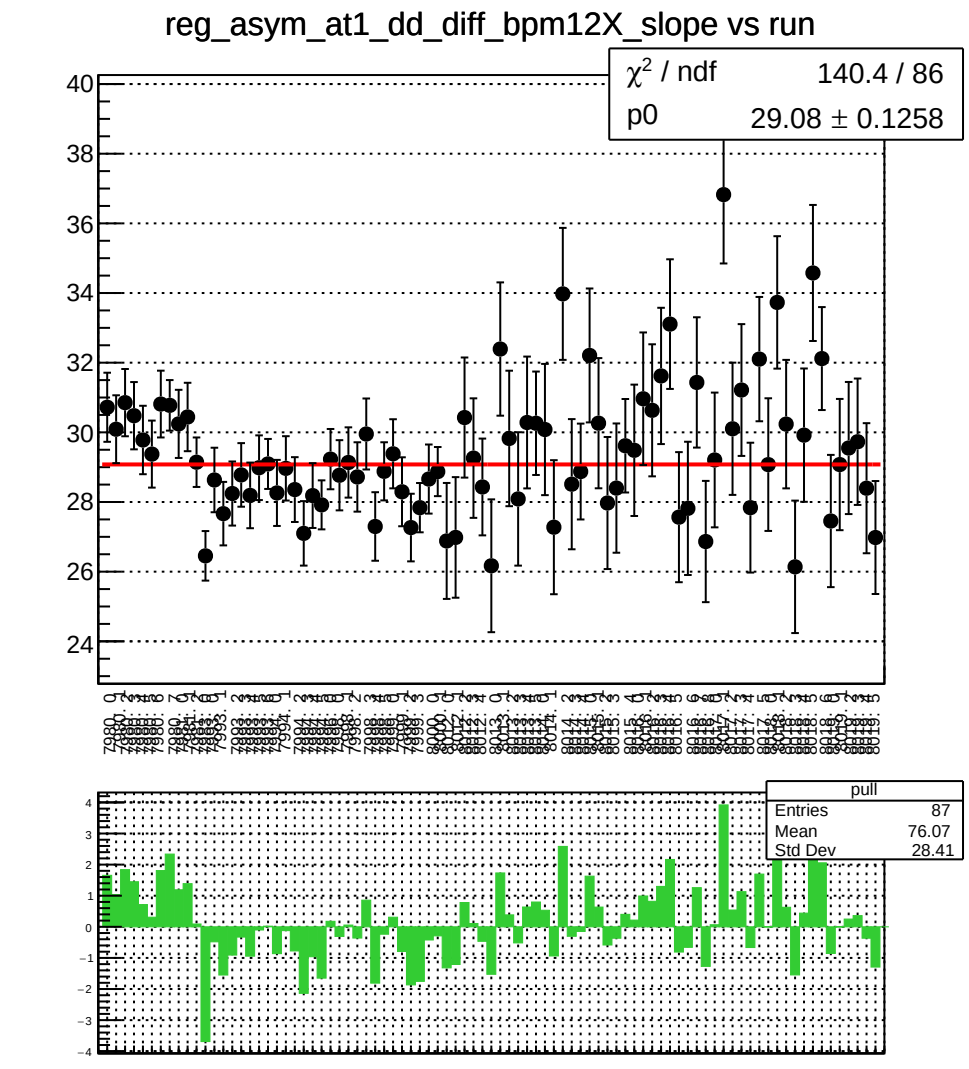

pull1D
Entries 87
Mean −0.005329
Std Dev 0.9694

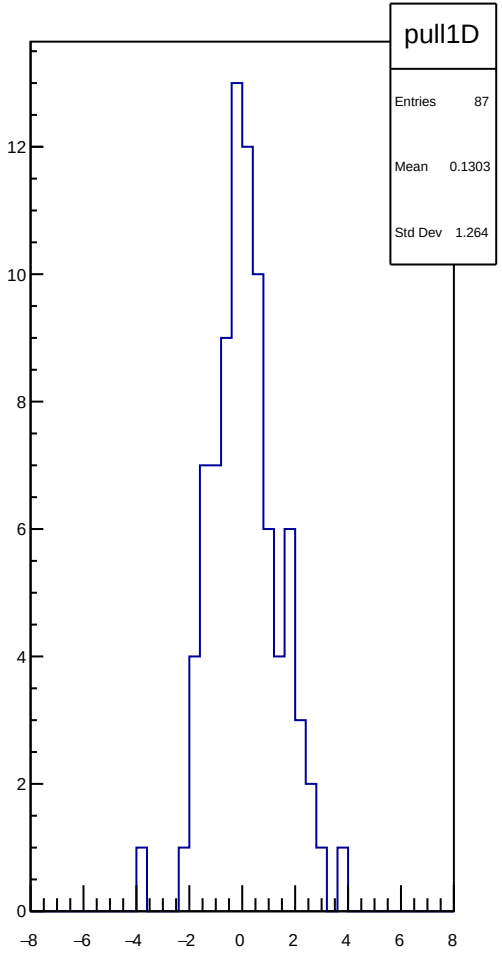

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 97.61 / 86
p0 −4.511 ± 2.198
pull
Entries 87
Mean −121.7
Std Dev 0

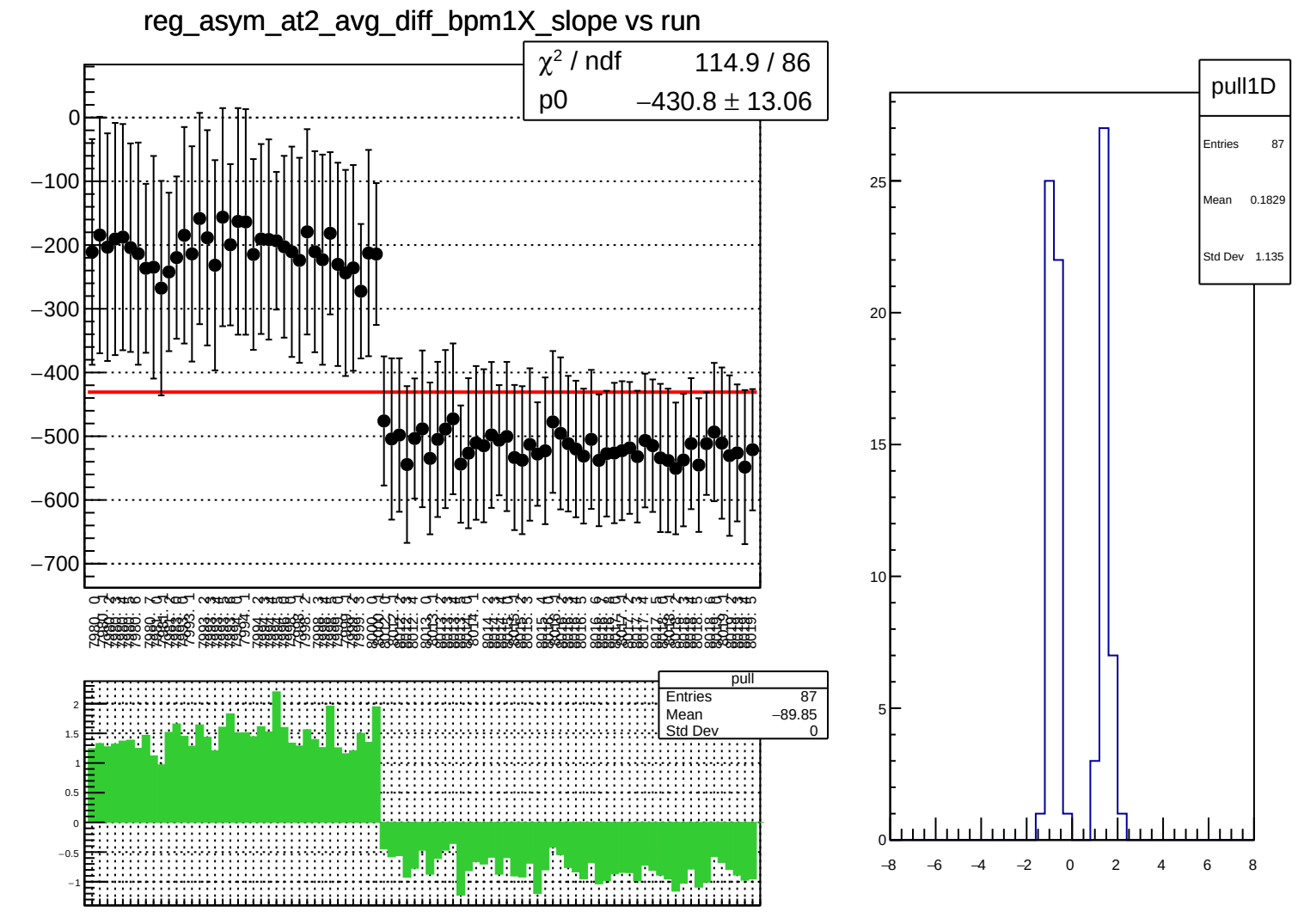

pull1D
Entries 87
Mean 0.02548
Std Dev 1.059

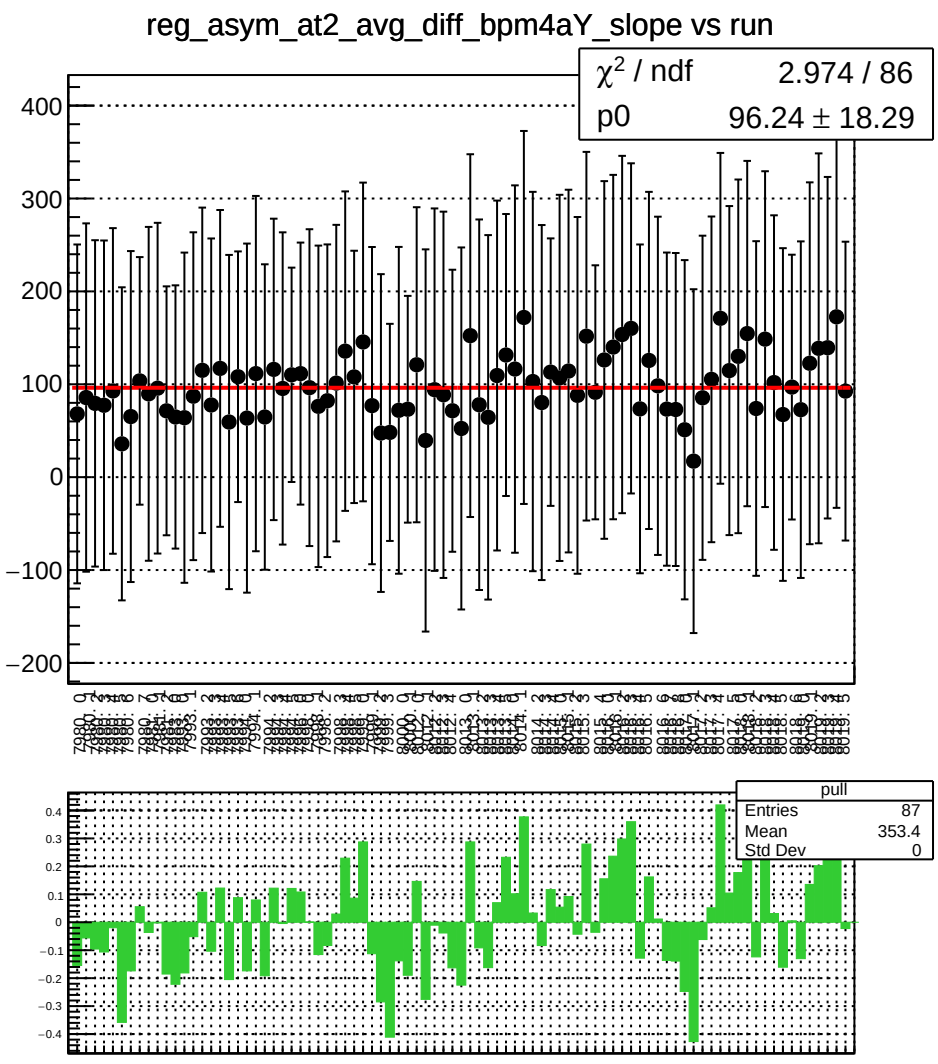

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.05 / 86
p0 −6.341 ± 3.358
100
50
0
−50
−100
pull
Entries 87
Mean 418.3
Std Dev 0
2
1
0
−1
−2

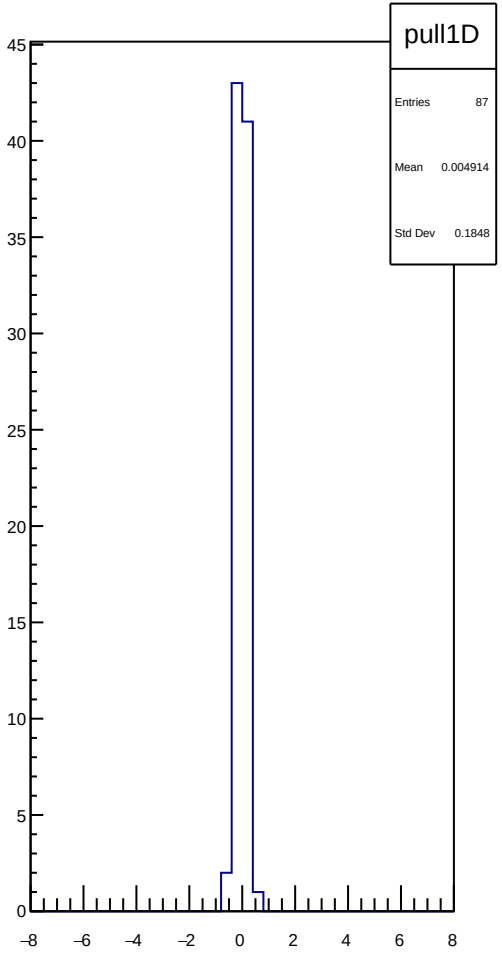

pull1D
Entries 87
Mean 0.005289
Std Dev 0.9711
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

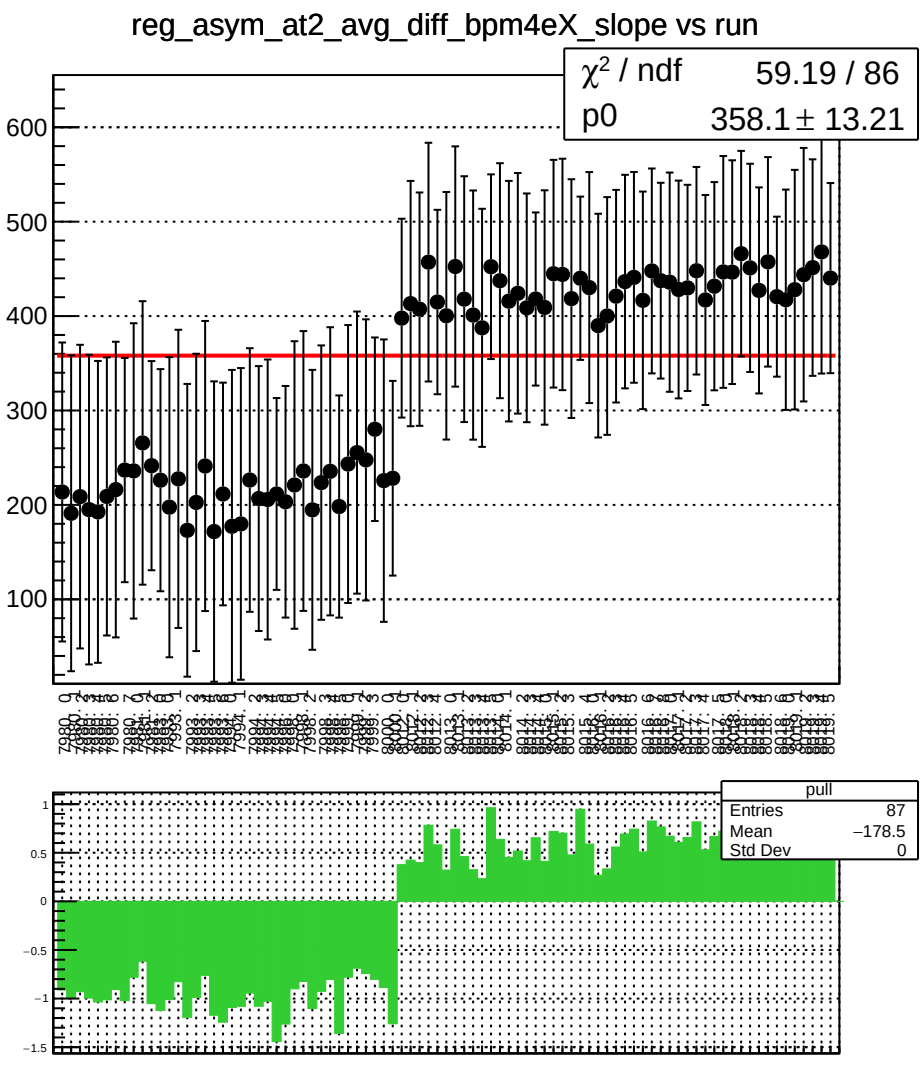

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 140.4 / 86
p0 29.08 ± 0.1258
pull
Entries 87
Mean 76.07
Std Dev 28.41

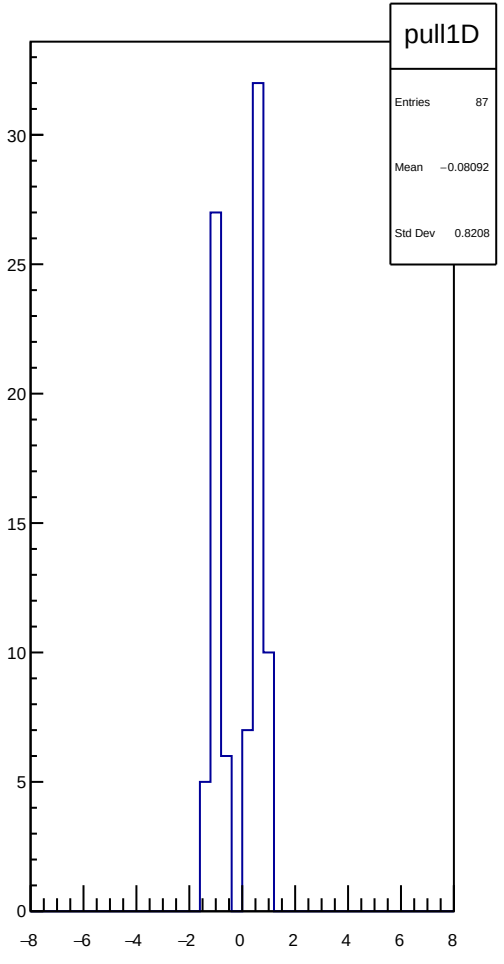

pull1D
Entries 87
Mean 0.1303
Std Dev 1.264

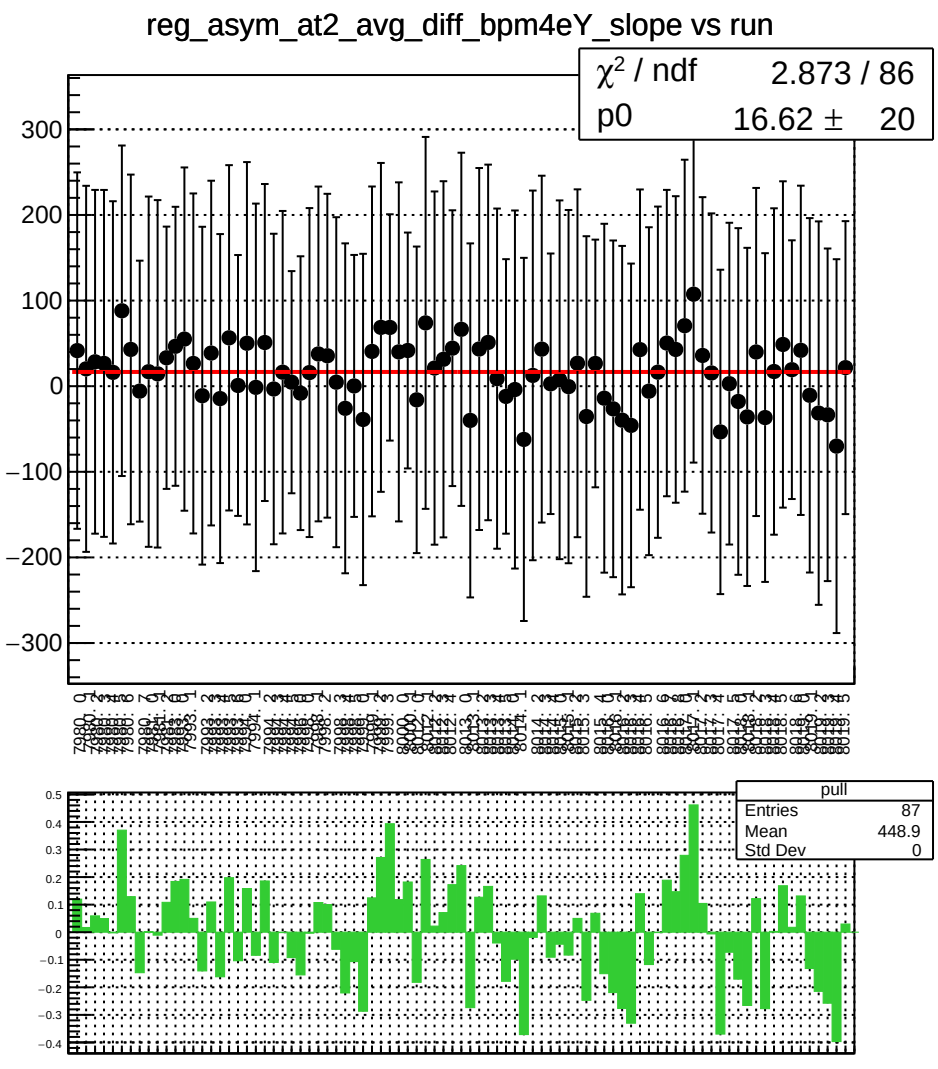

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 114.9 / 86
p0 −430.8 ± 13.06
0
−100
−200
−300
−400
−500
−600
−700
pull
Entries 87
Mean −89.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.1829
Std Dev 1.135
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

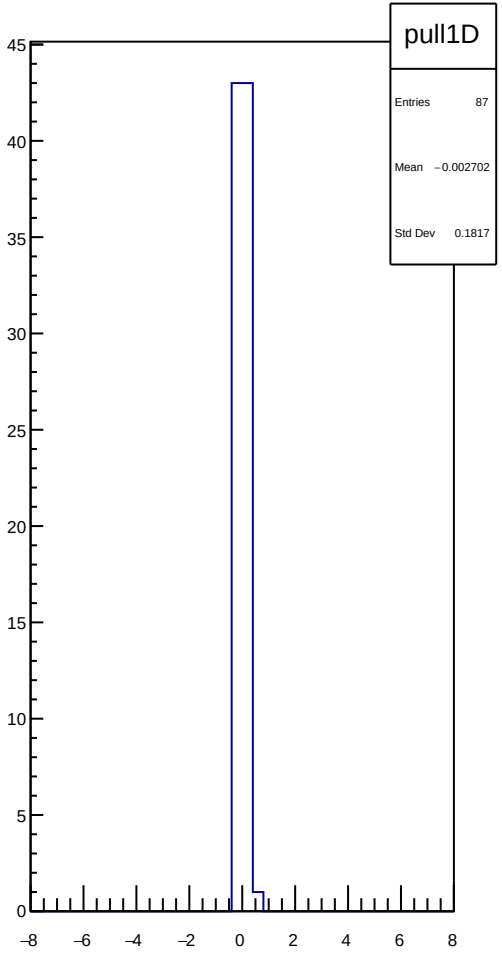

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.974 / 86
p0 96.24 ± 18.29
pull
Entries 87
Mean 353.4
Std Dev 0

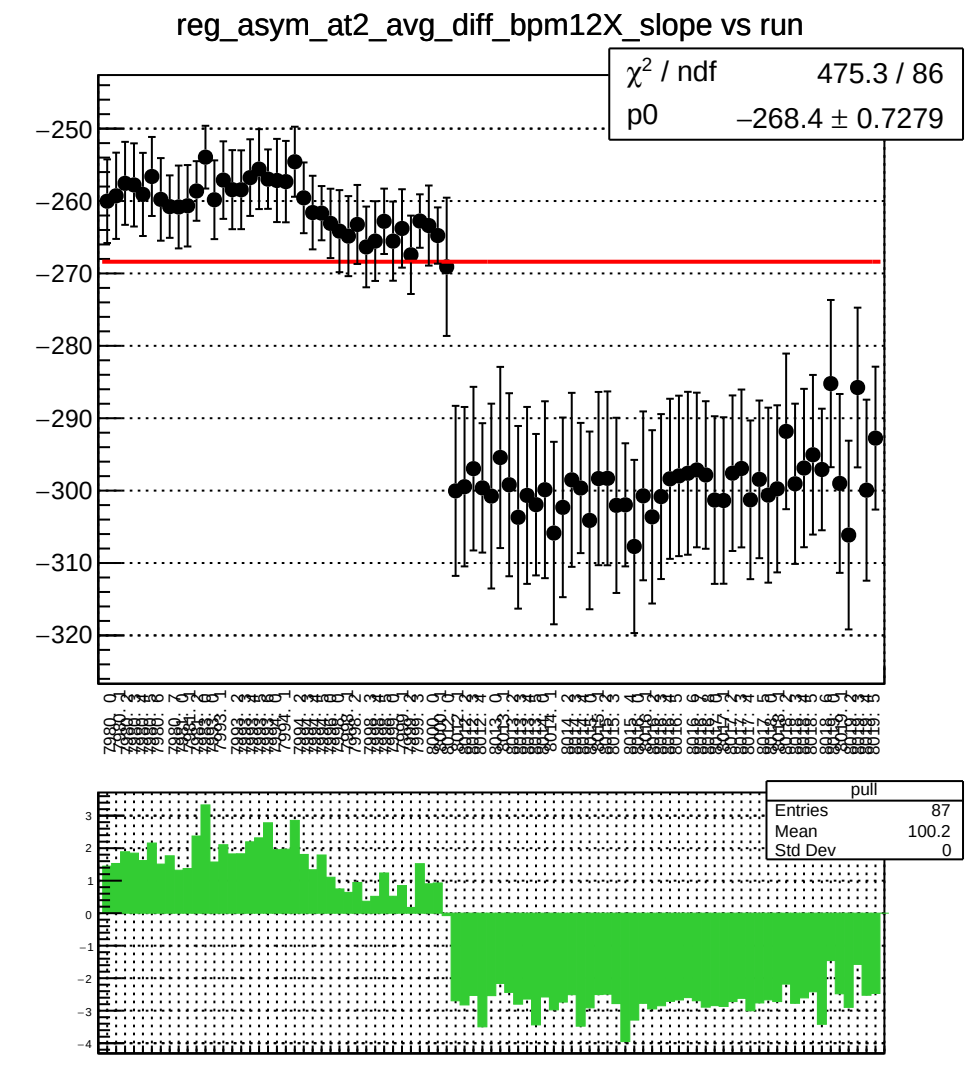

pull1D
Entries 87
Mean 0.004914
Std Dev 0.1848

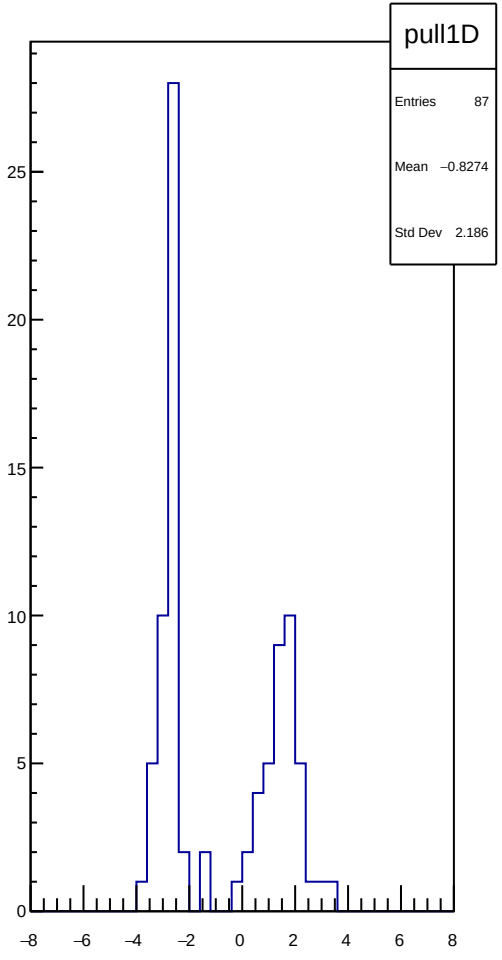

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 59.19 / 86
p0 358.1 ± 13.21
pull
Entries 87
Mean −178.5
Std Dev 0

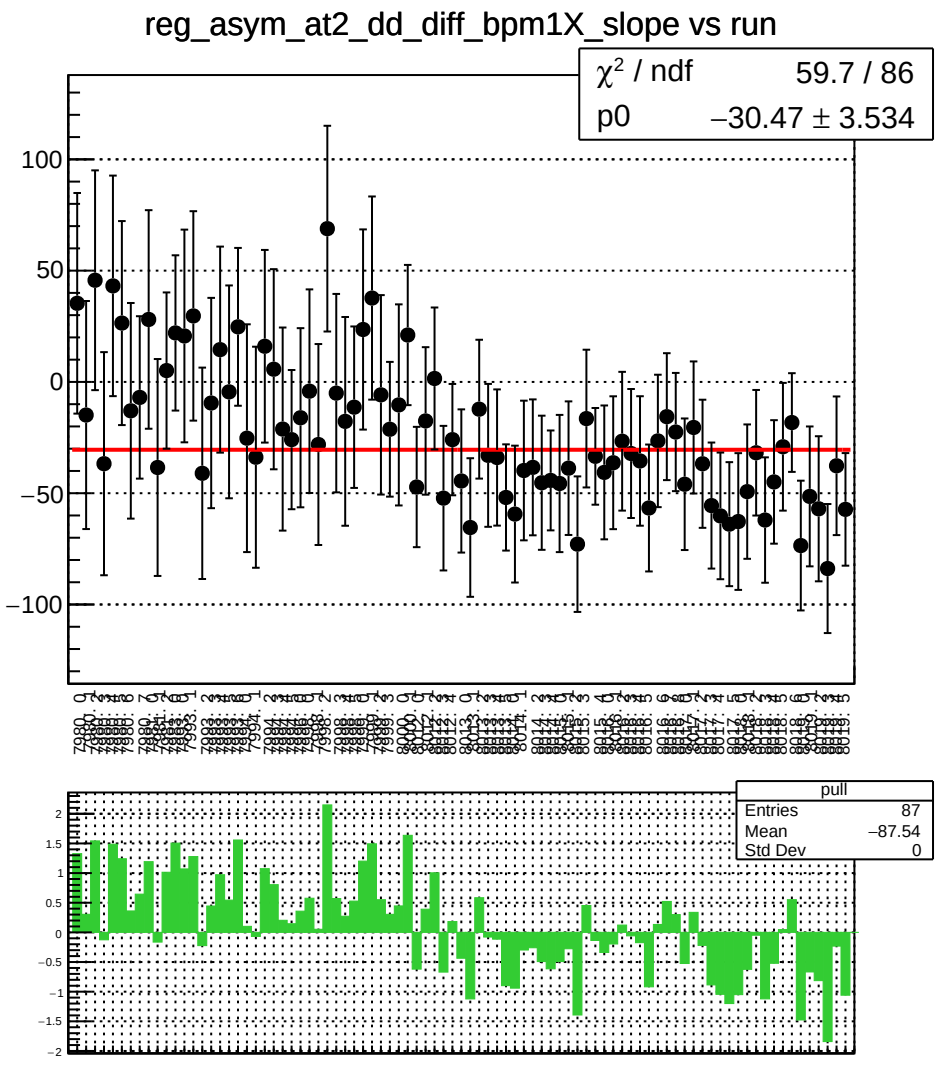

pull1D
Entries 87
Mean −0.08092
Std Dev 0.8208

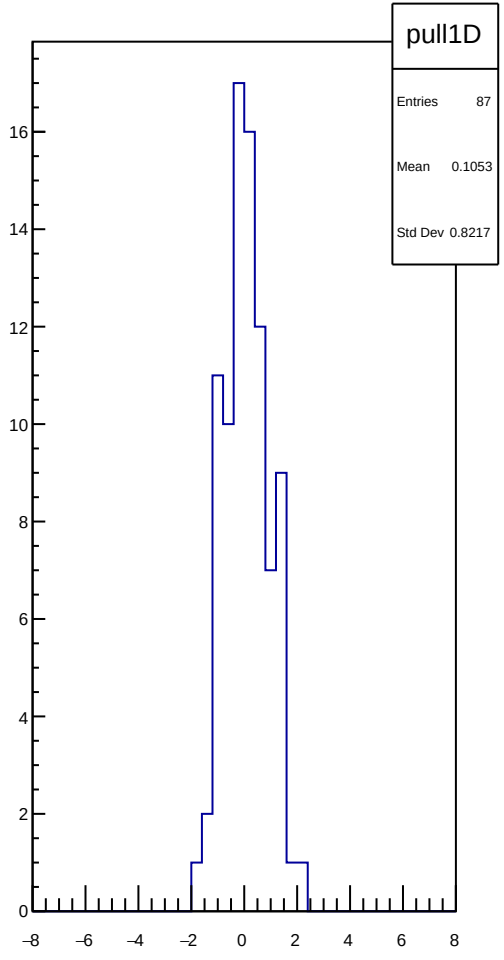

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.873 / 86
p0 16.62 ± 20
pull
Entries 87
Mean 448.9
Std Dev 0

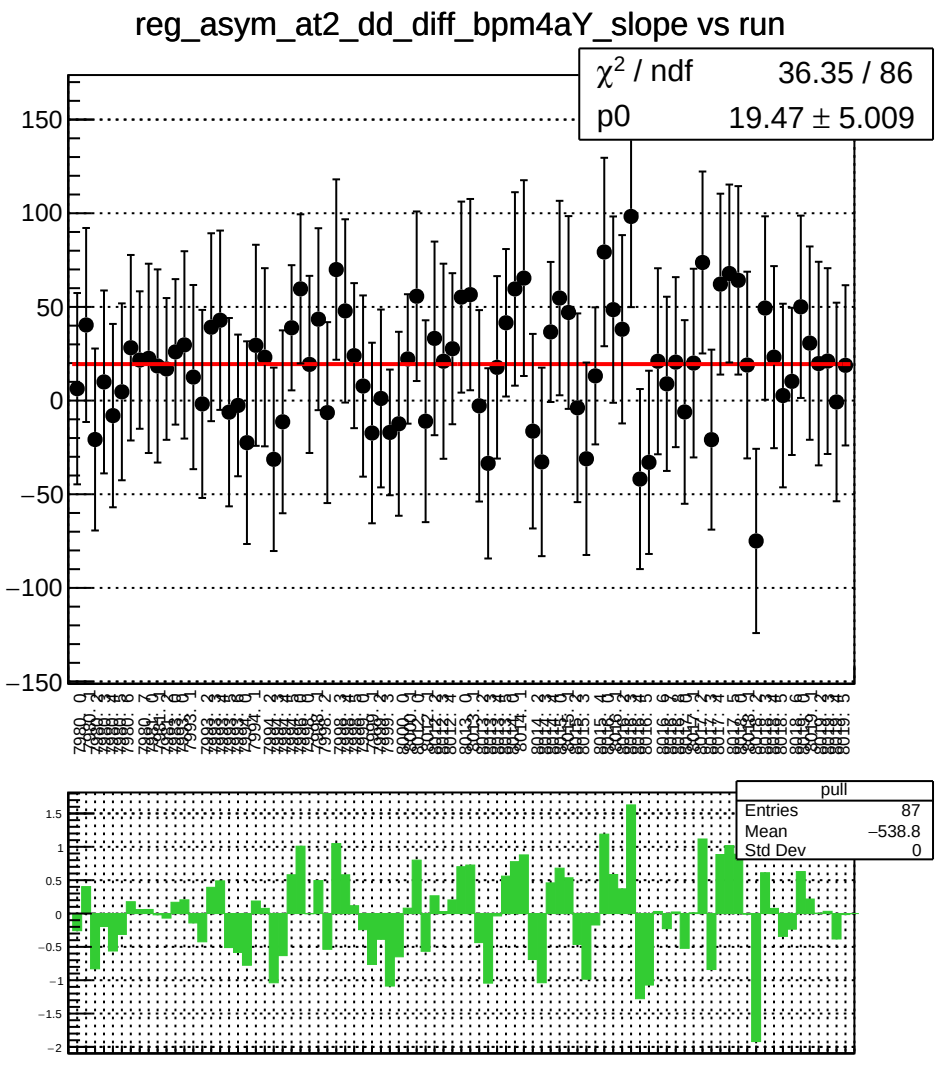

pull1D
Entries 87
Mean −0.002702
Std Dev 0.1817

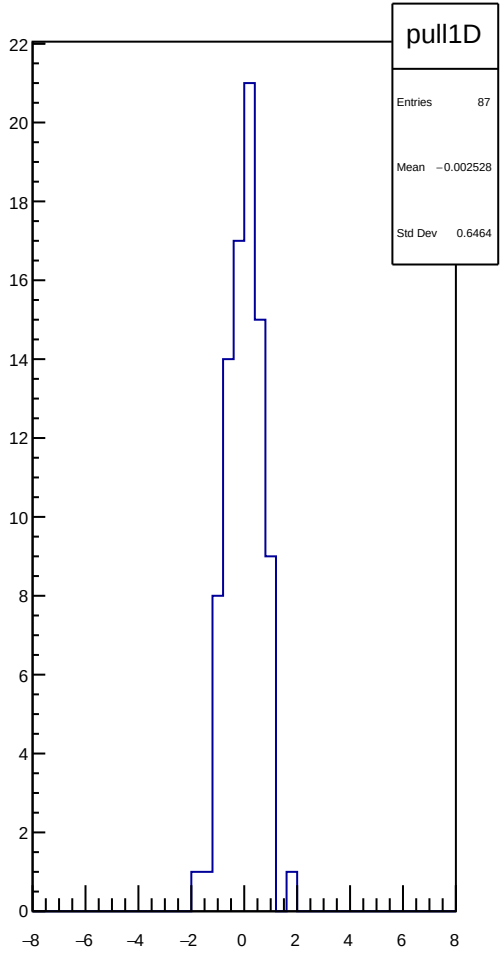

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 475.3 / 86
p0 −268.4 ± 0.7279
pull
Entries 87
Mean 100.2
Std Dev 0

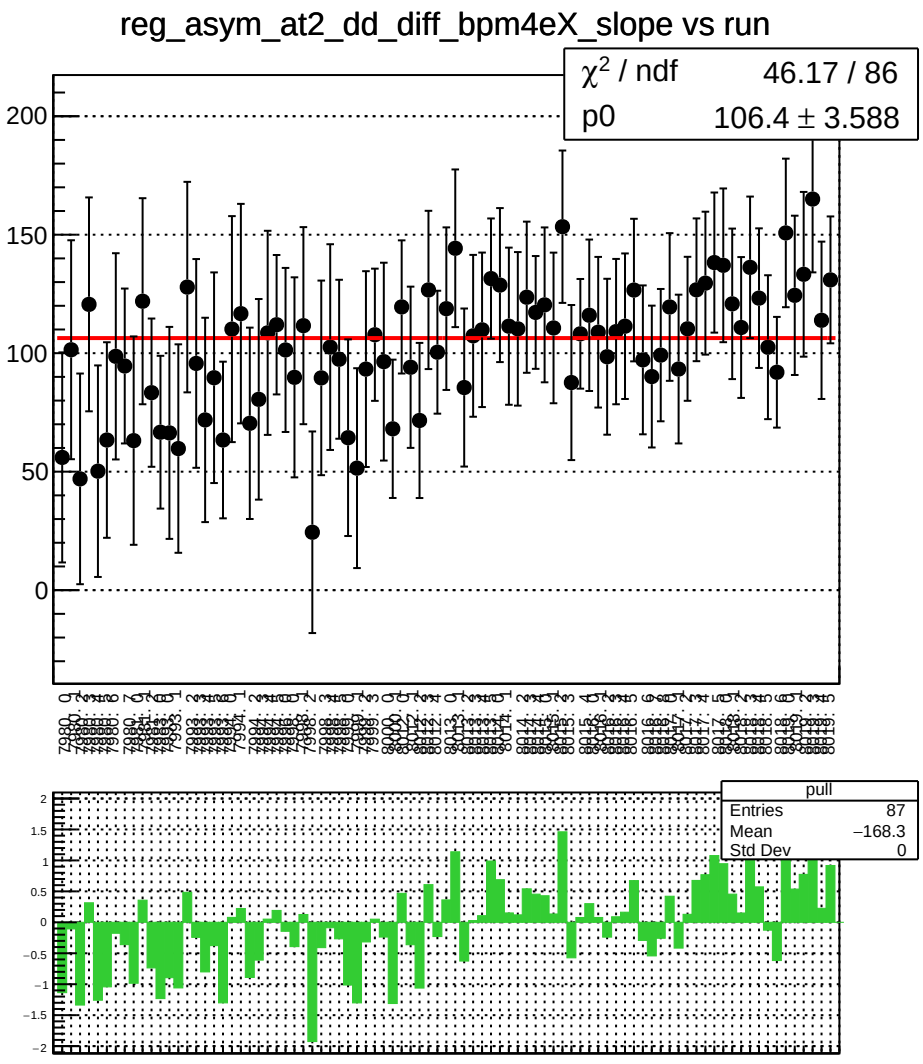

pull1D
Entries 87
Mean −0.8274
Std Dev 2.186

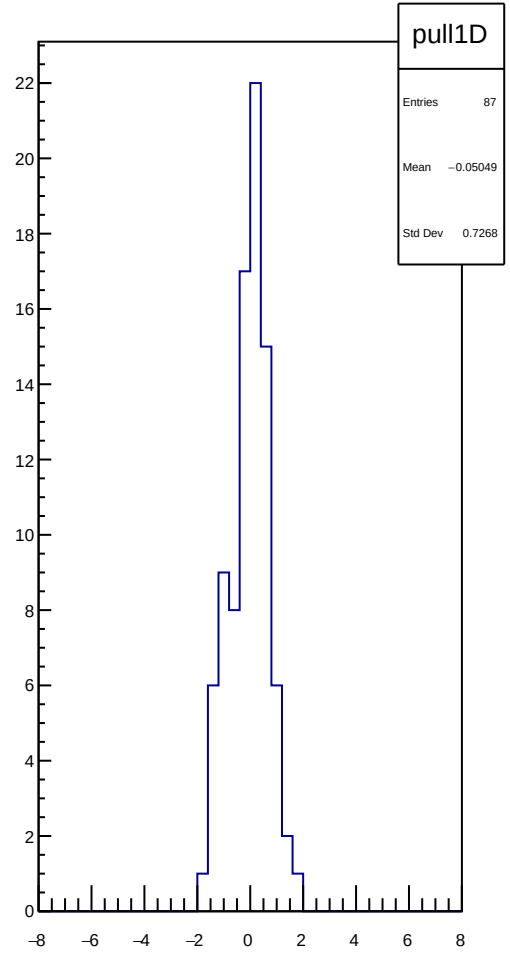

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 59.7 / 86
p0 −30.47 ± 3.534
100
50
0
−50
−100
pull
Entries 87
Mean −87.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

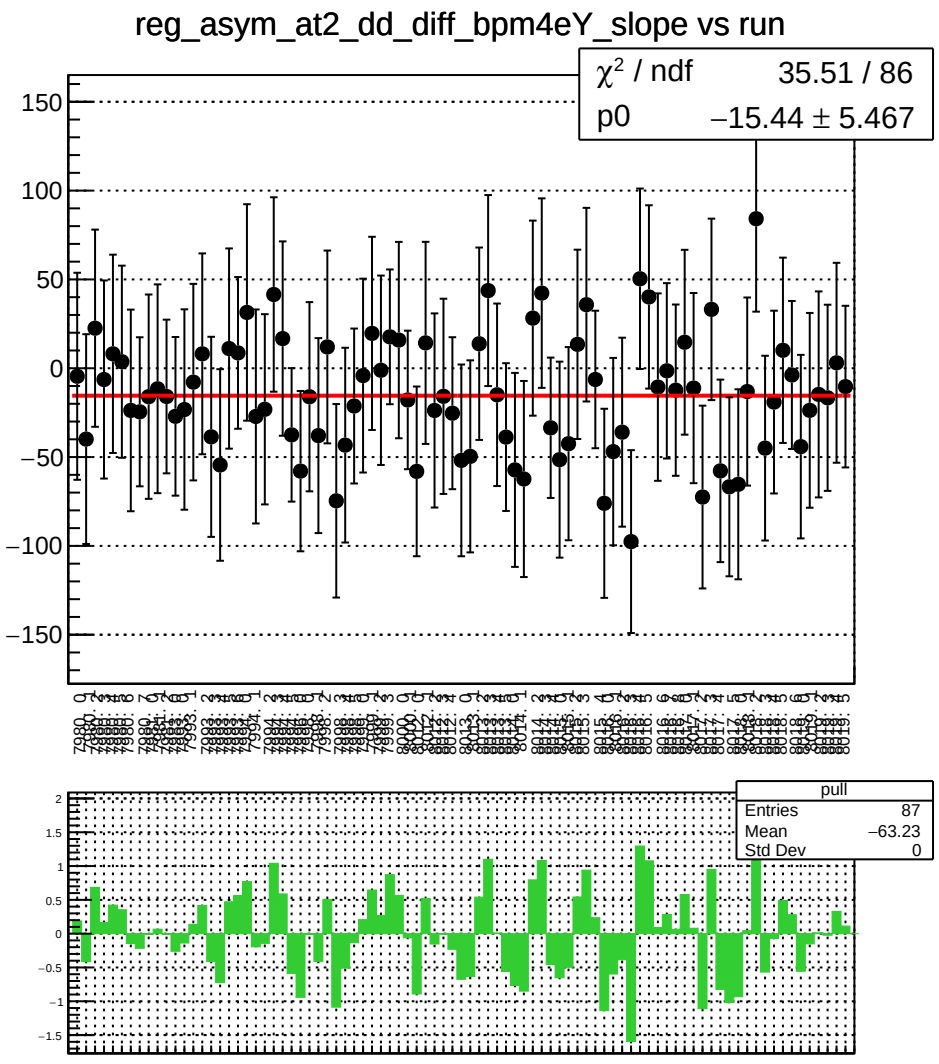

pull1D
Entries 87
Mean 0.1053
Std Dev 0.8217
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

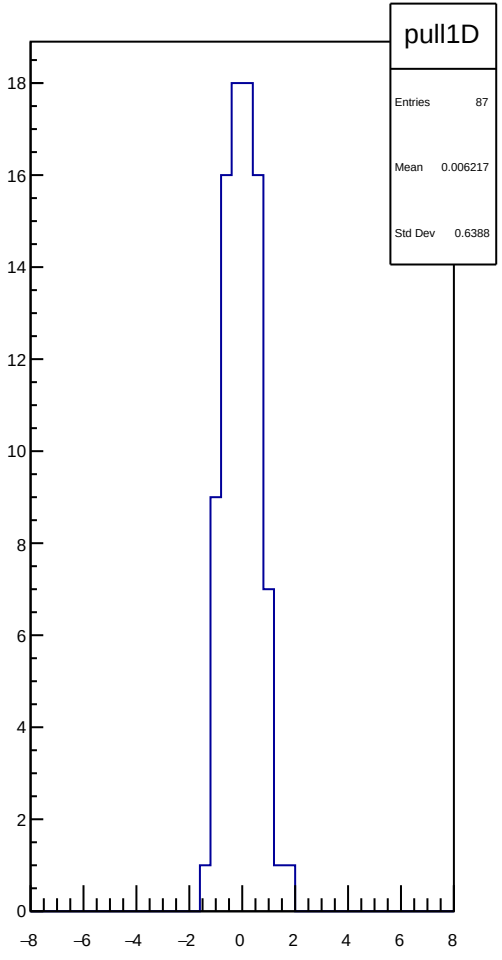

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.35 / 86
p0 19.47 ± 5.009
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −538.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

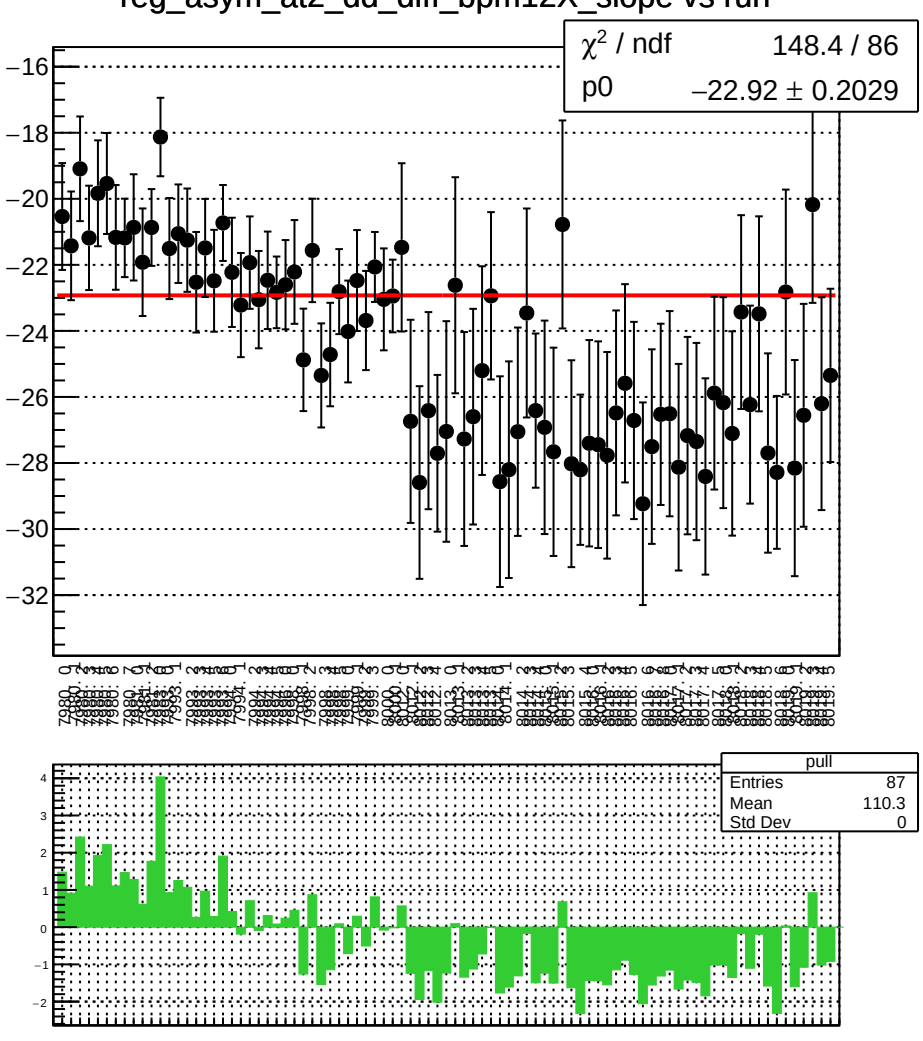

pull1D
Entries 87
Mean −0.002528
Std Dev 0.6464
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

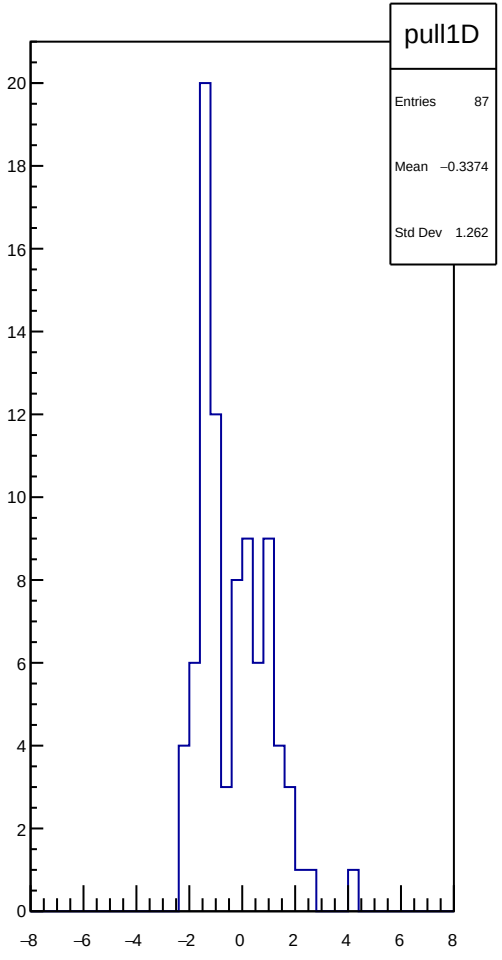

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.17 / 86
p0 106.4 ± 3.588
200
150
100
50
0
pull
Entries 87
Mean −168.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

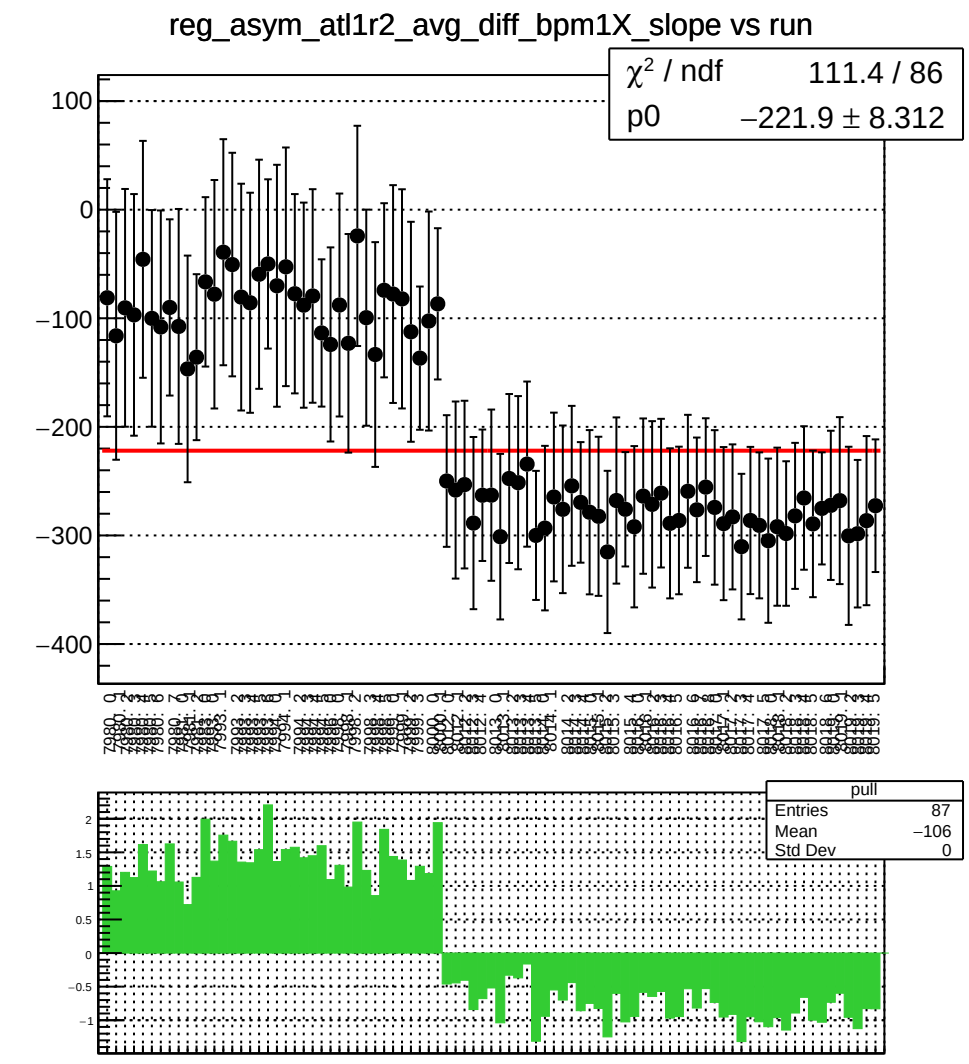

pull1D
Entries 87
Mean −0.05049
Std Dev 0.7268
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

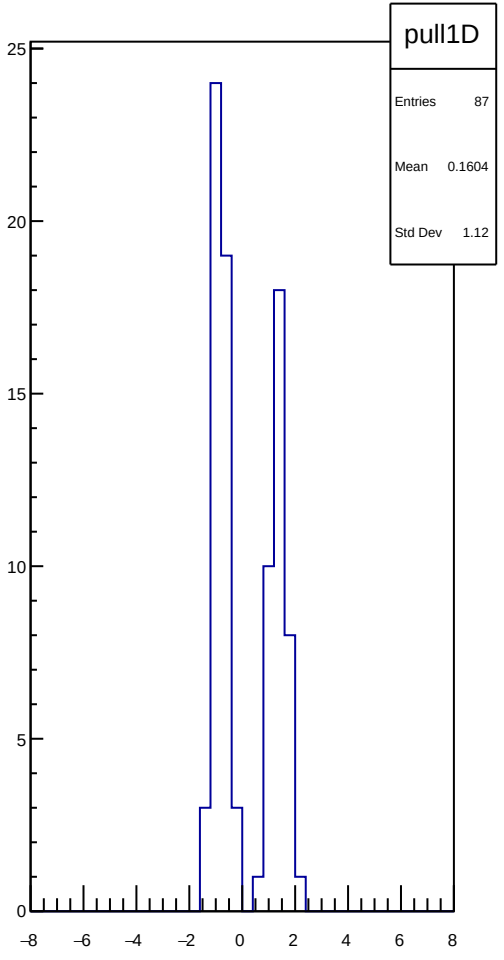

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.51 / 86
p0 −15.44 ± 5.467
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −63.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

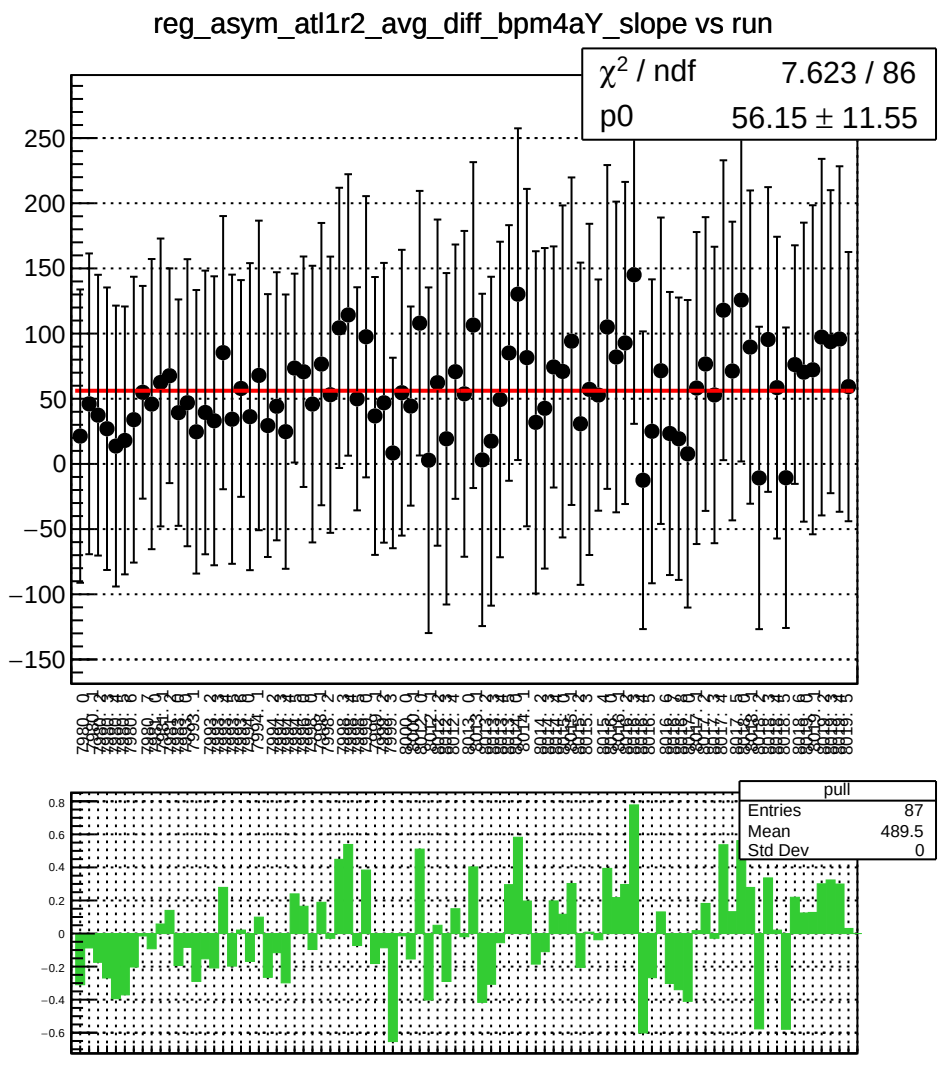

pull1D
Entries 87
Mean 0.006217
Std Dev 0.6388
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

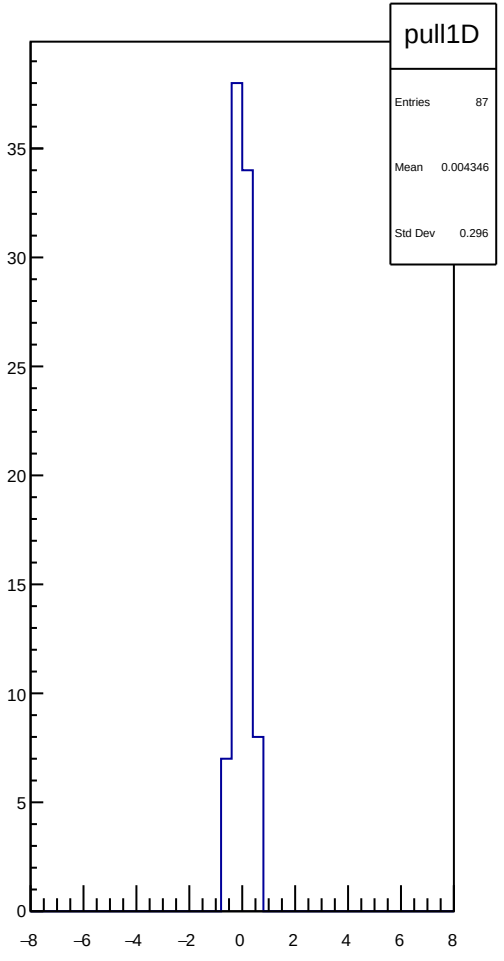

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 148.4 / 86
p0 −22.92 ± 0.2029
pull
Entries 87
Mean 110.3
Std Dev 0

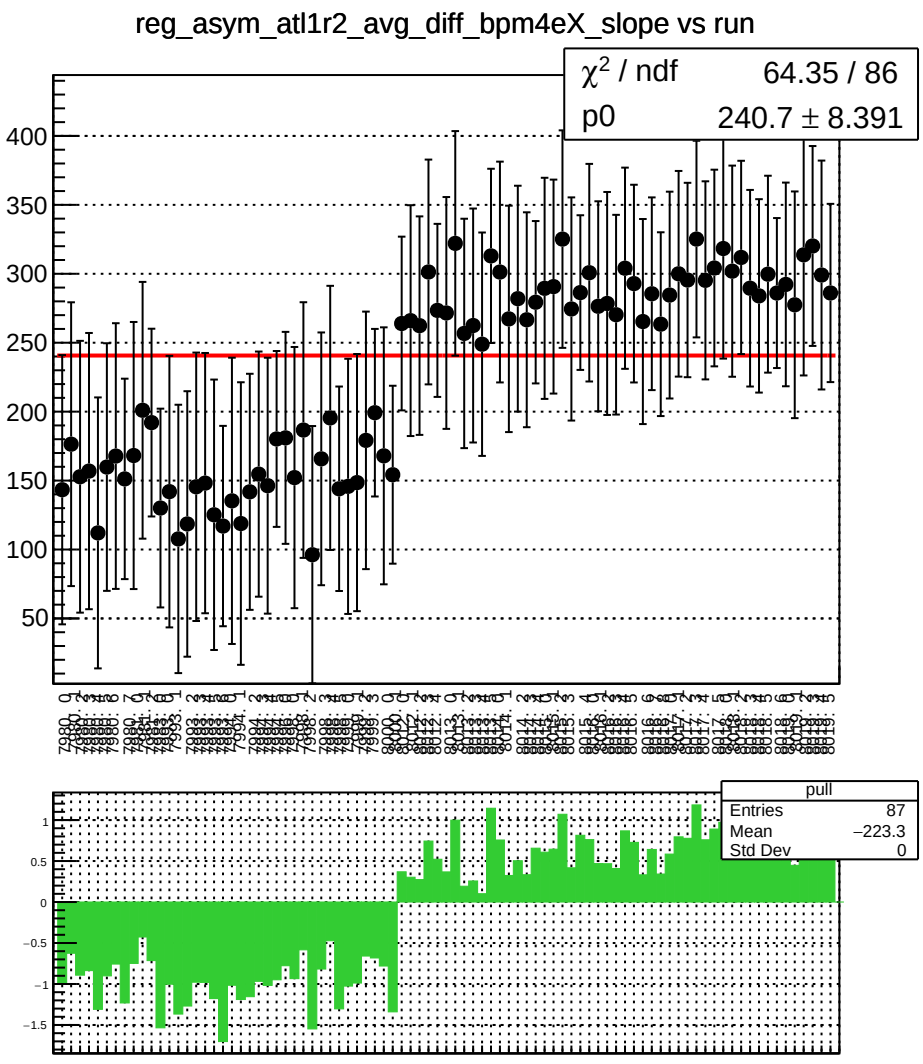

pull1D
Entries 87
Mean −0.3374
Std Dev 1.262

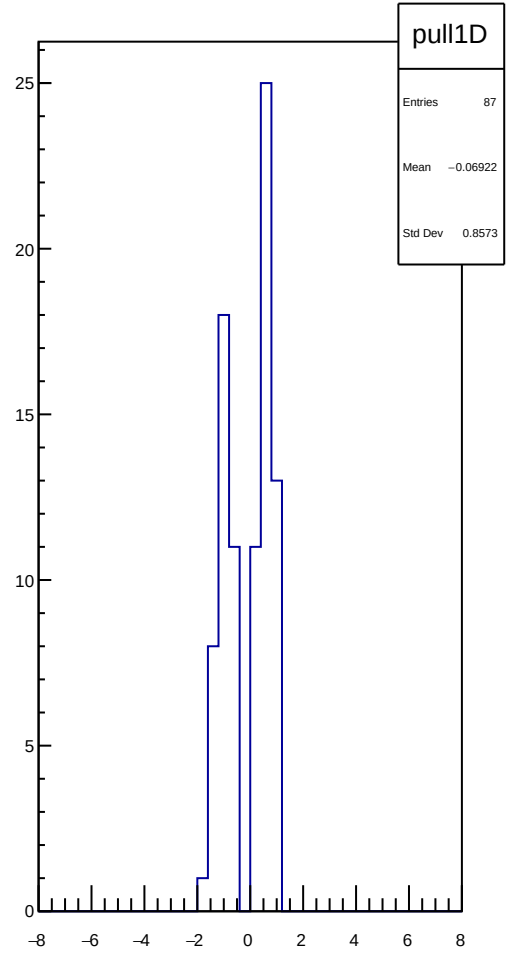

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 111.4 / 86
p0 −221.9 ± 8.312
pull
Entries 87
Mean −106
Std Dev 0

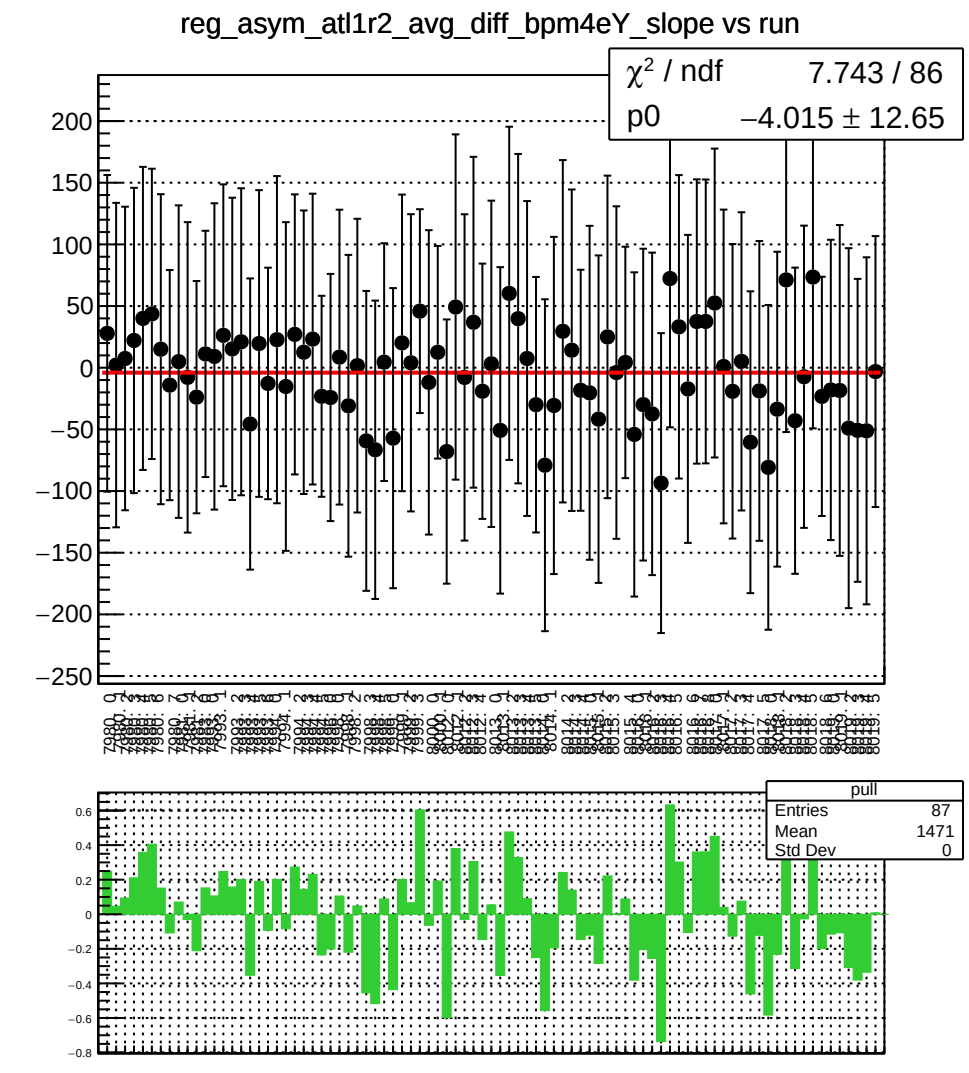

pull1D
Entries 87
Mean 0.1604
Std Dev 1.12

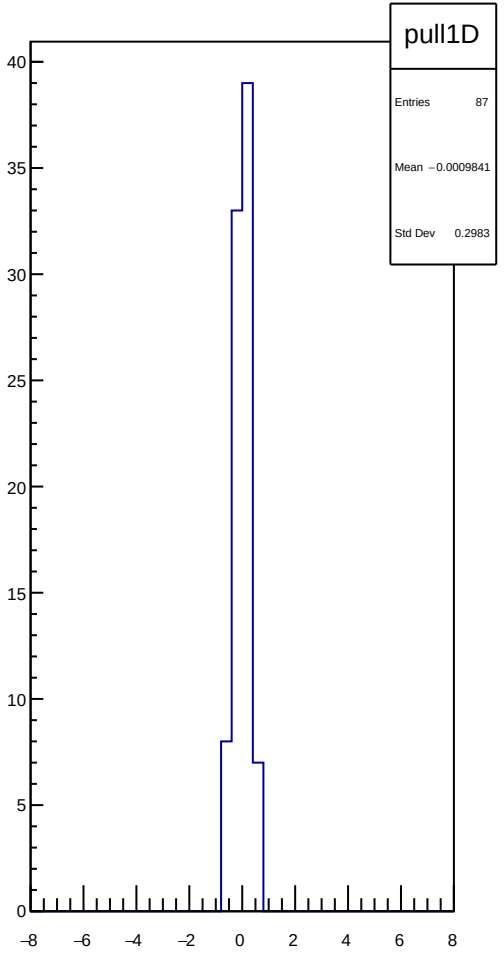

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 7.623 / 86
p0 56.15 ± 11.55
pull
Entries 87
Mean 489.5
Std Dev 0

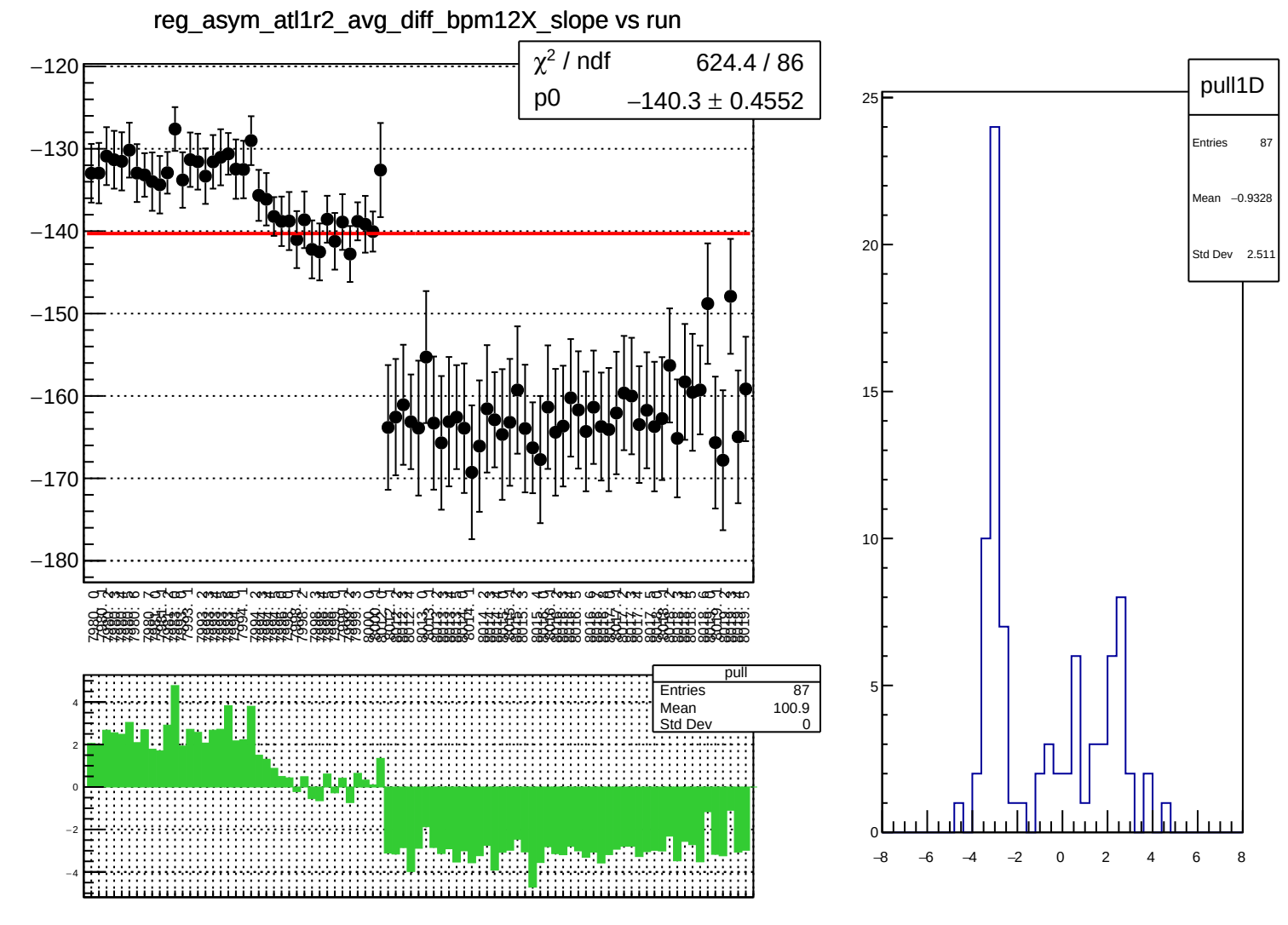

pull1D
Entries 87
Mean 0.004346
Std Dev 0.296

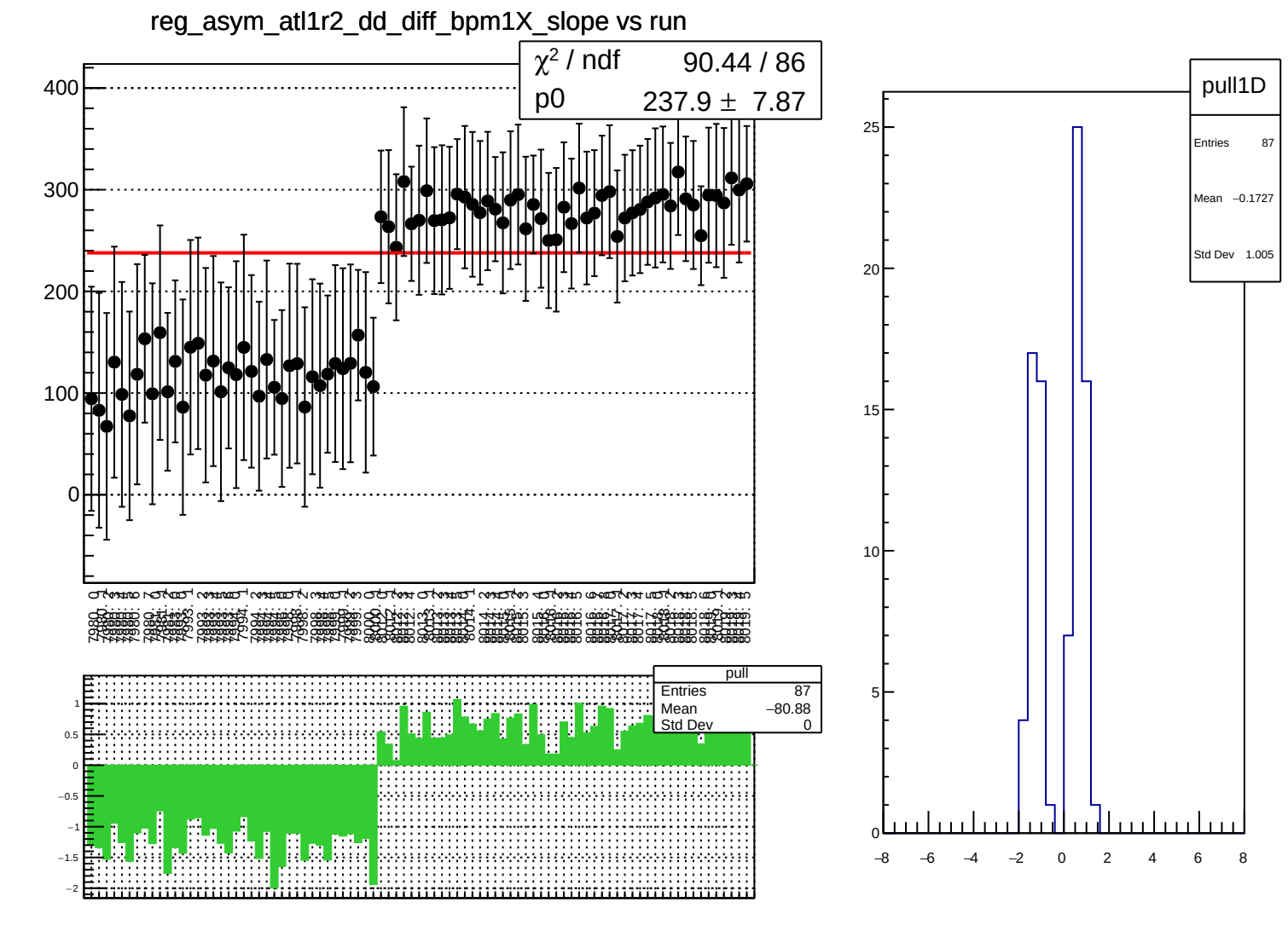

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.35 / 86
p0 240.7 ± 8.391
400
350
300
250
200
150
100
50
pull
Entries 87
Mean −223.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

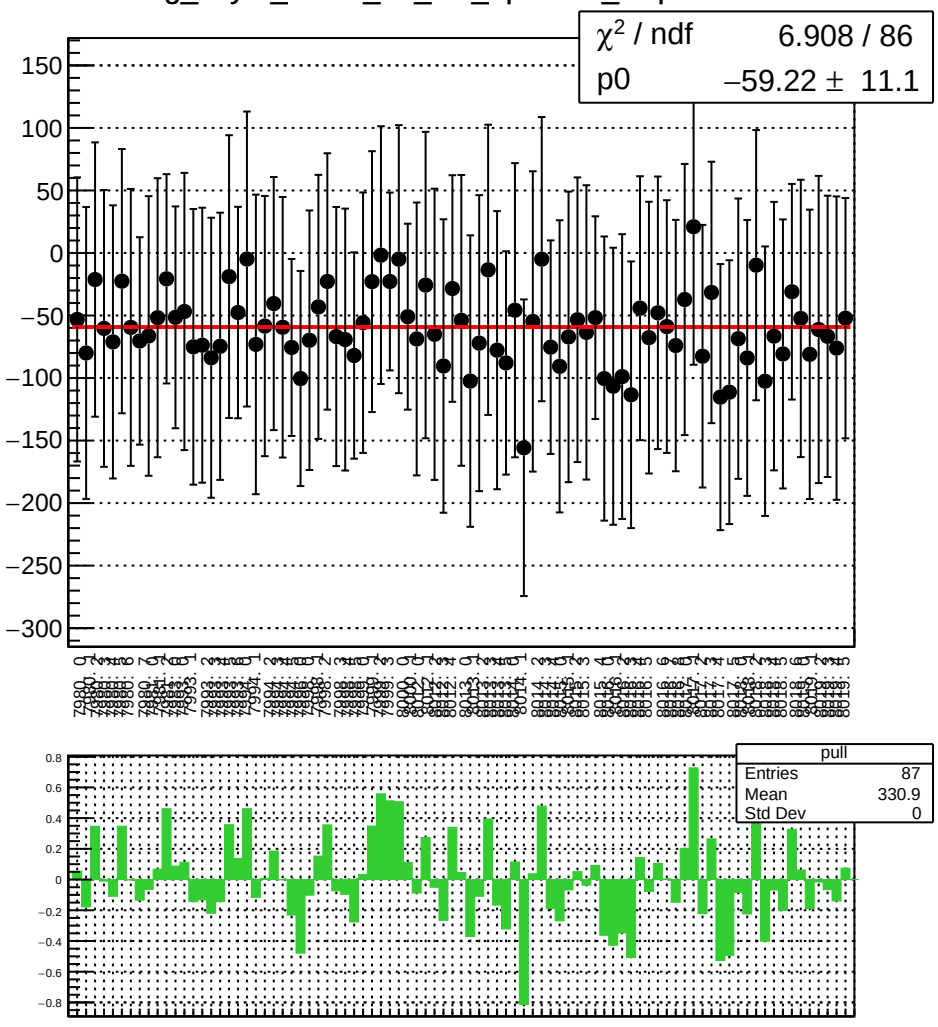

pull1D
Entries 87
Mean −0.06922
Std Dev 0.8573
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

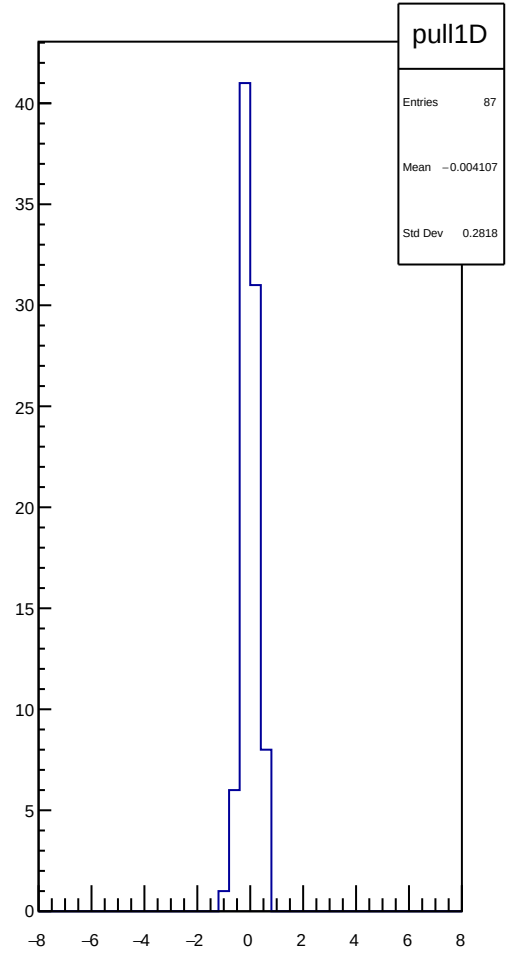

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.743 / 86
p0 −4.015 ± 12.65
pull
Entries 87
Mean 1471
Std Dev 0

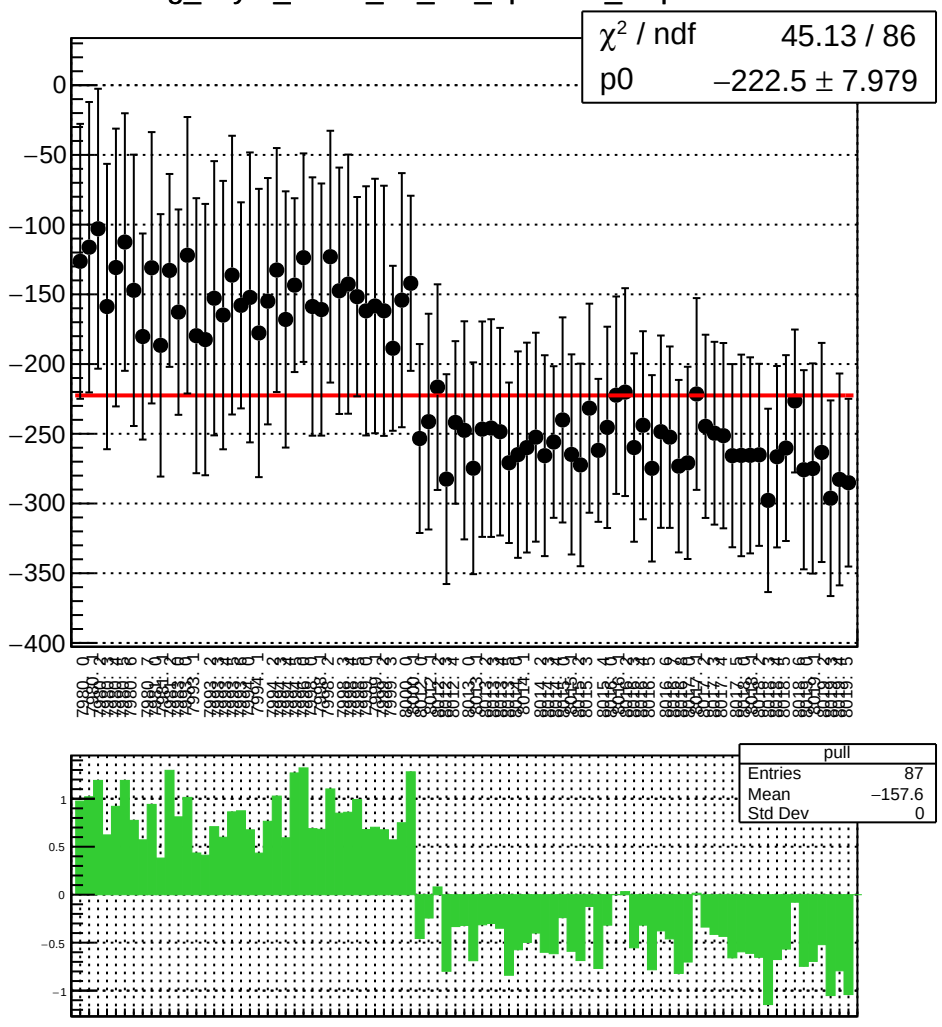

pull1D
Entries 87
Mean −0.0009841
Std Dev 0.2983

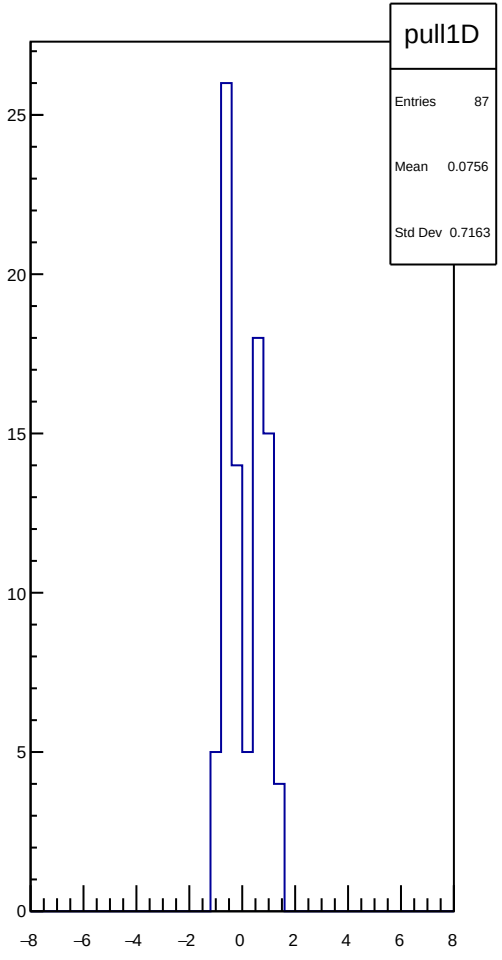

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 624.4 / 86
p0 −140.3 ± 0.4552
−120
−130
−140
−150
−160
−170
−180
pull
Entries 87
Mean 100.9
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 87
Mean −0.9328
Std Dev 2.511
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

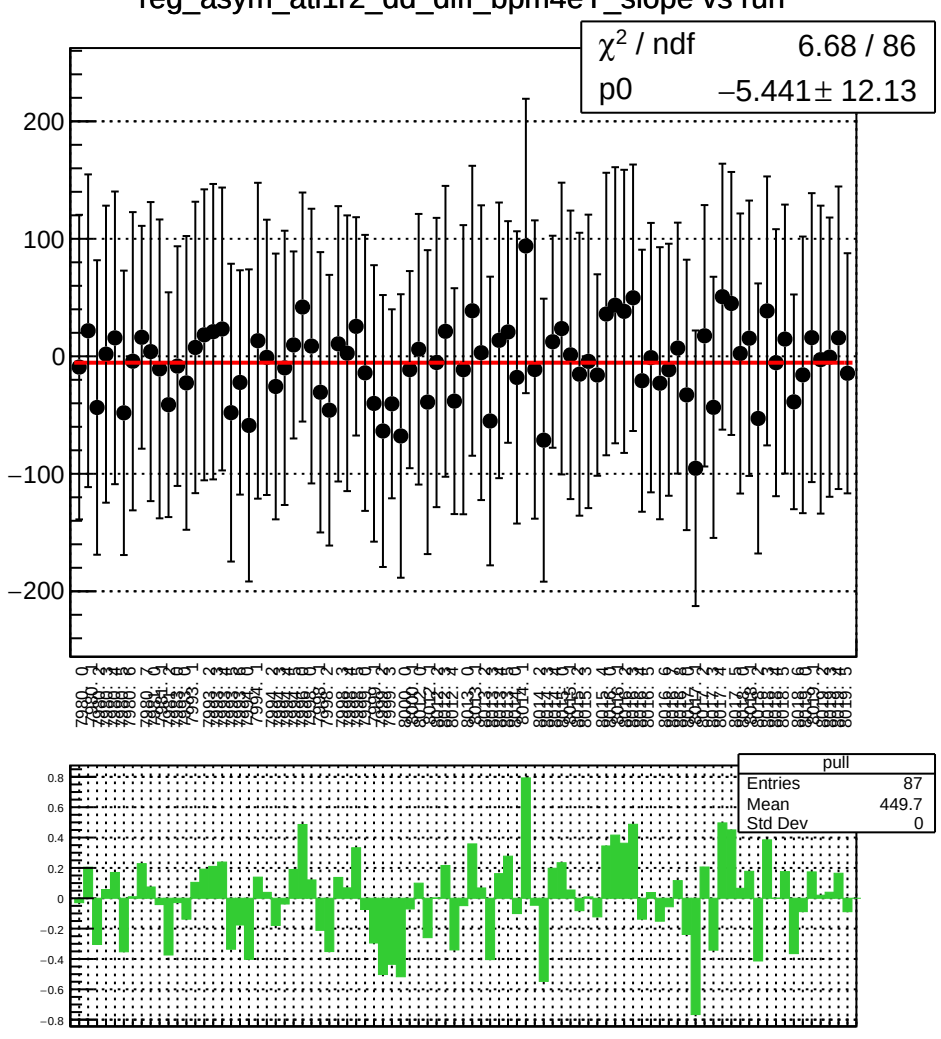

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 90.44 / 86
p0 237.9 ± 7.87
400
300
200
100
0
pull
Entries 87
Mean −80.88
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.1727
Std Dev 1.005
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

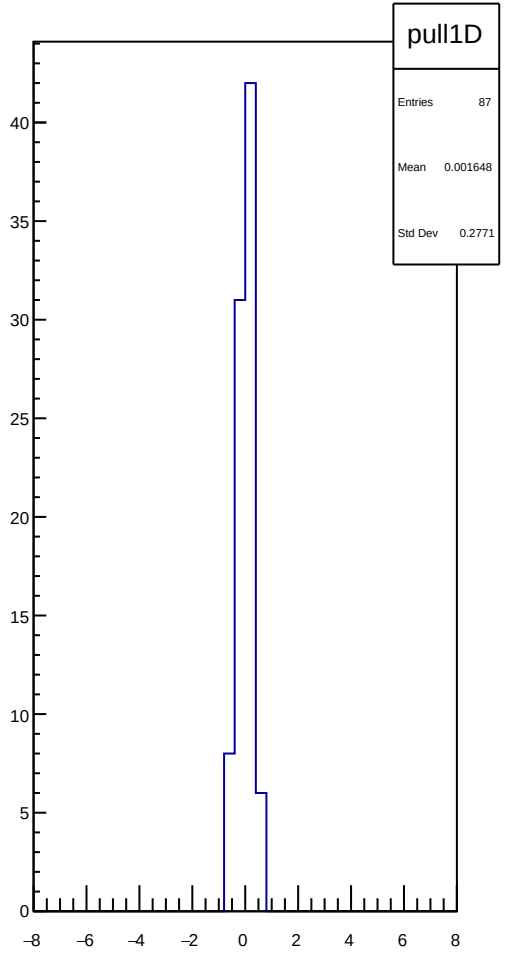

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.908 / 86
p0 −59.22 ± 11.1
pull
Entries 87
Mean 330.9
Std Dev 0

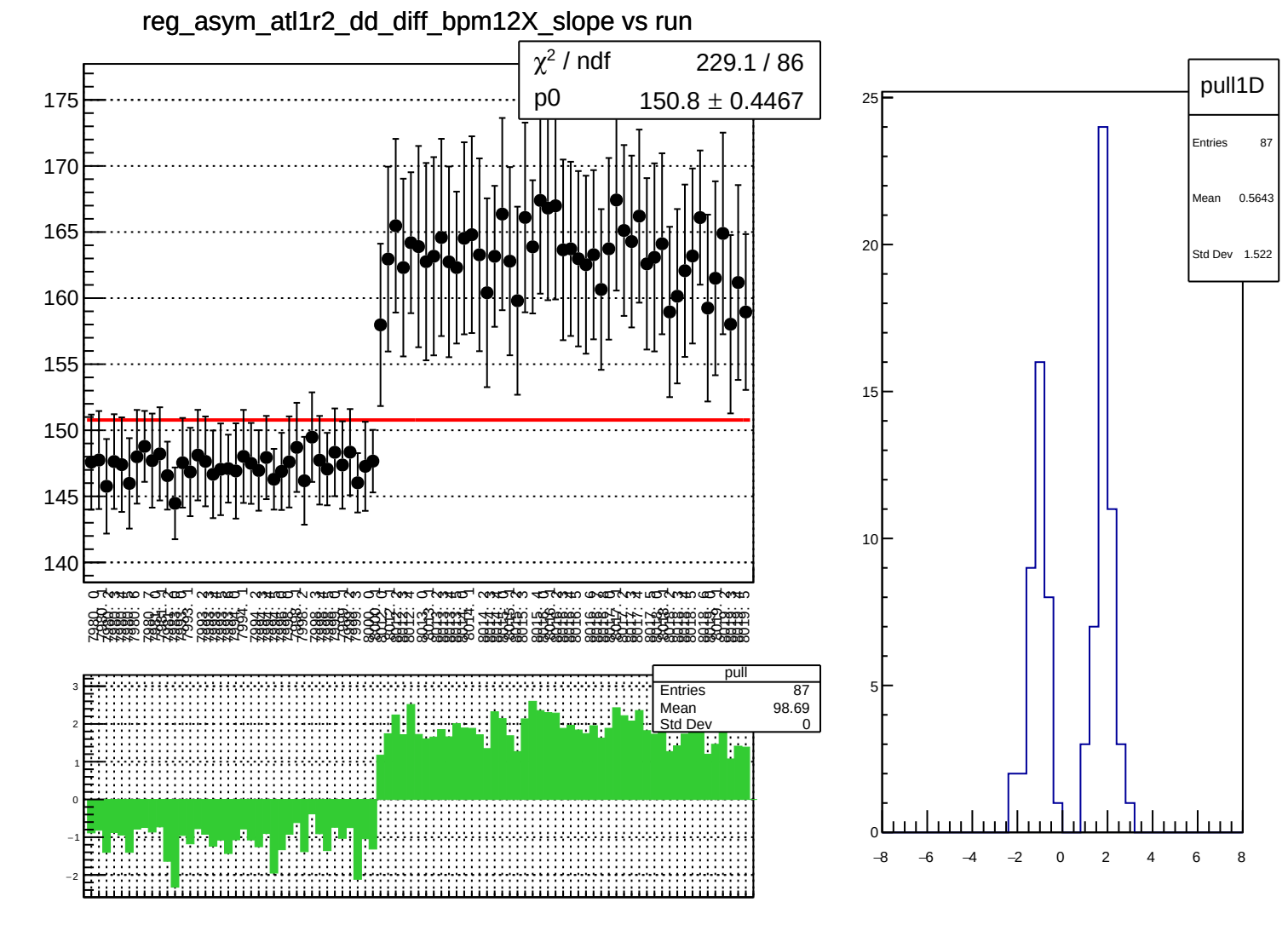

pull1D
Entries 87
Mean −0.004107
Std Dev 0.2818

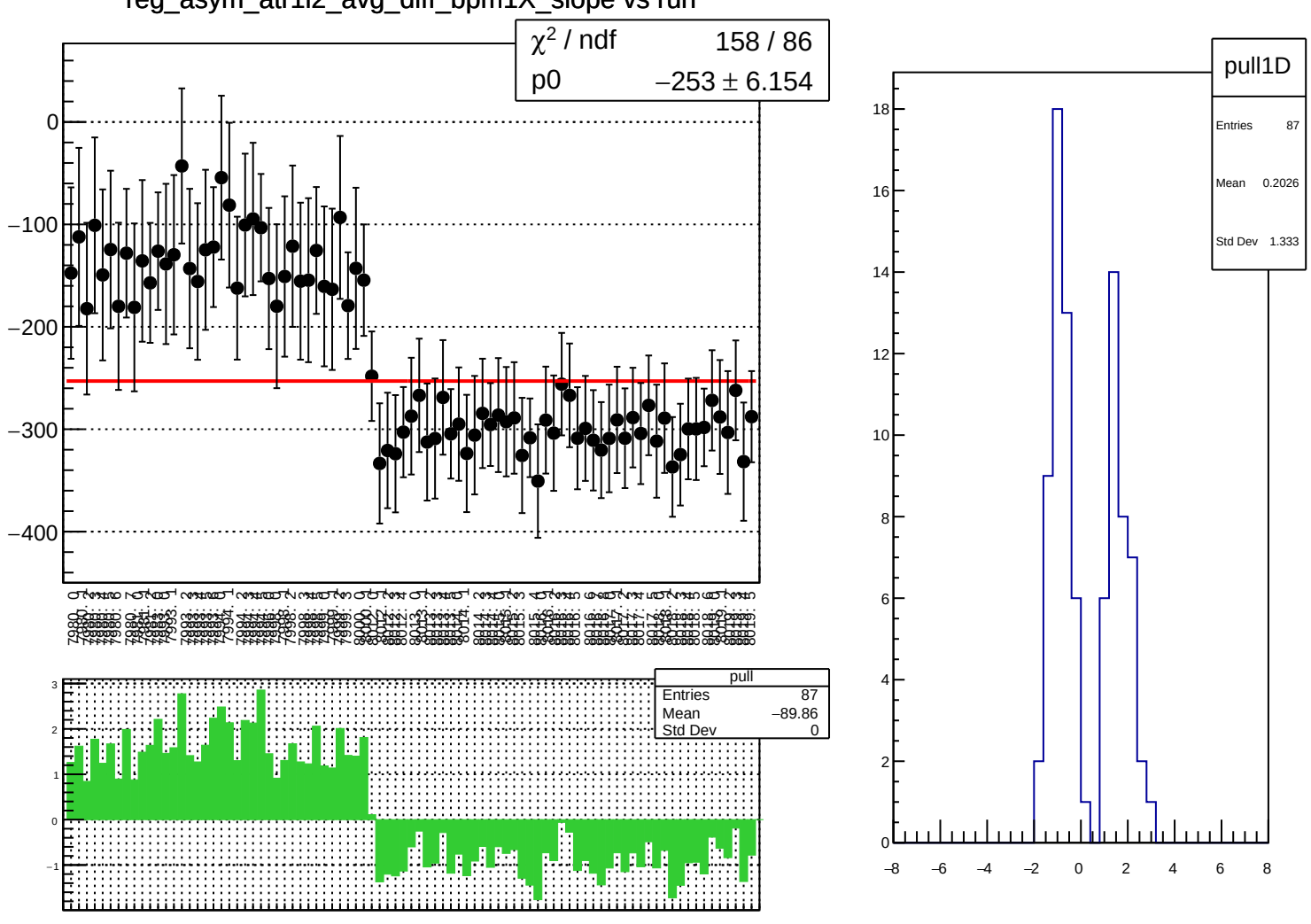

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.13 / 86
p0 −222.5 ± 7.979
pull
Entries 87
Mean −157.6
Std Dev 0

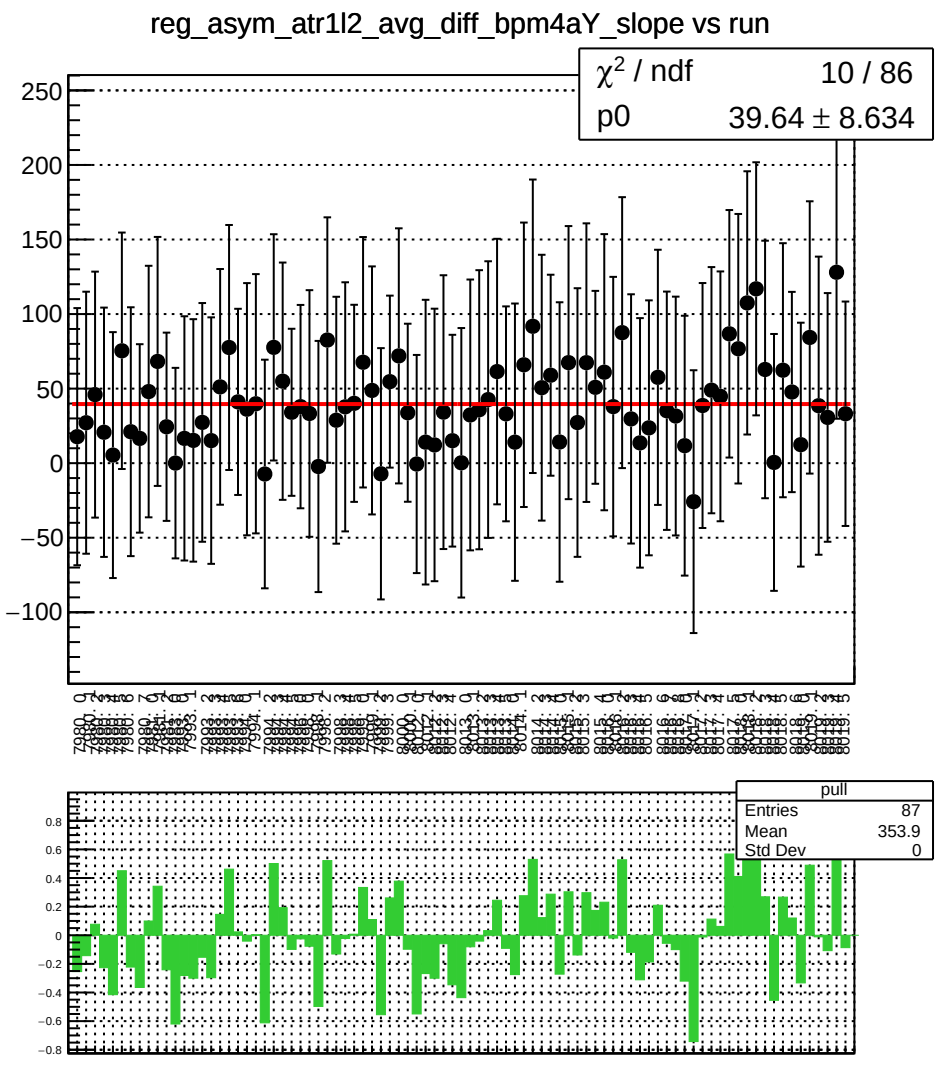

pull1D
Entries 87
Mean 0.0756
Std Dev 0.7163

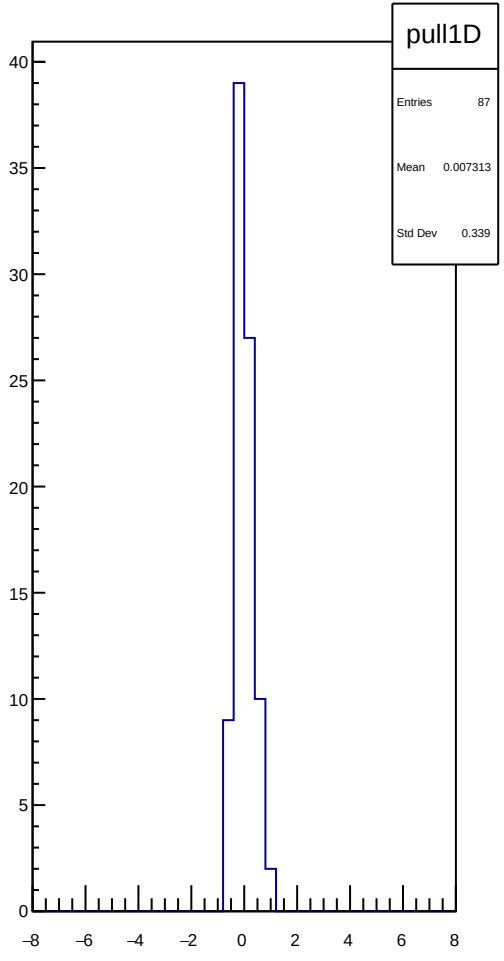

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.68 / 86
p0 −5.441 ± 12.13
200
100
0
−100
−200
pull
Entries 87
Mean 449.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

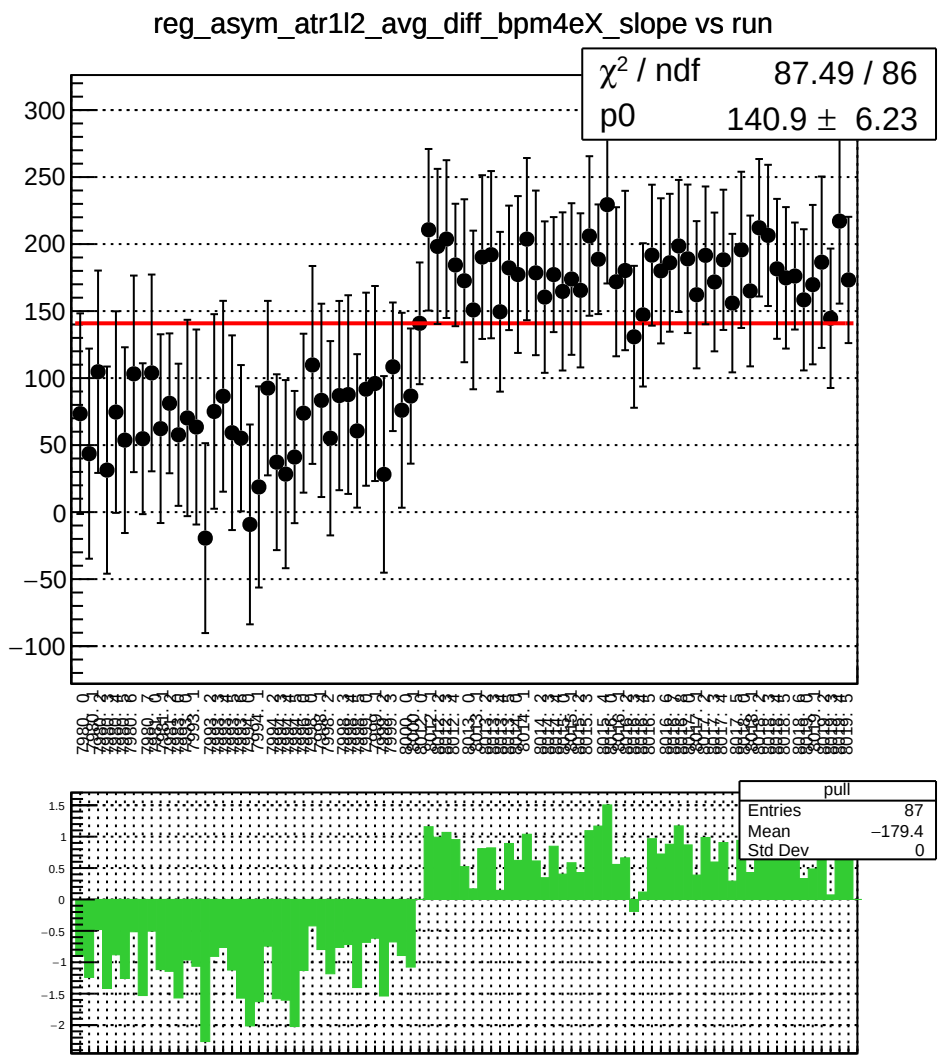

pull1D
Entries 87
Mean 0.001648
Std Dev 0.2771
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

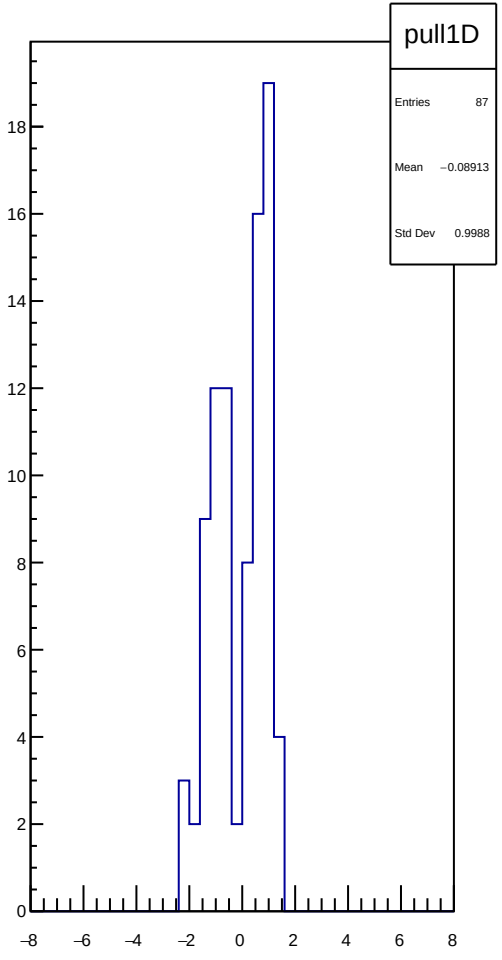

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 229.1 / 86
p0 150.8 ± 0.4467
175
170
165
160
155
150
145
140
pull
Entries 87
Mean 98.69
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.5643
Std Dev 1.522
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

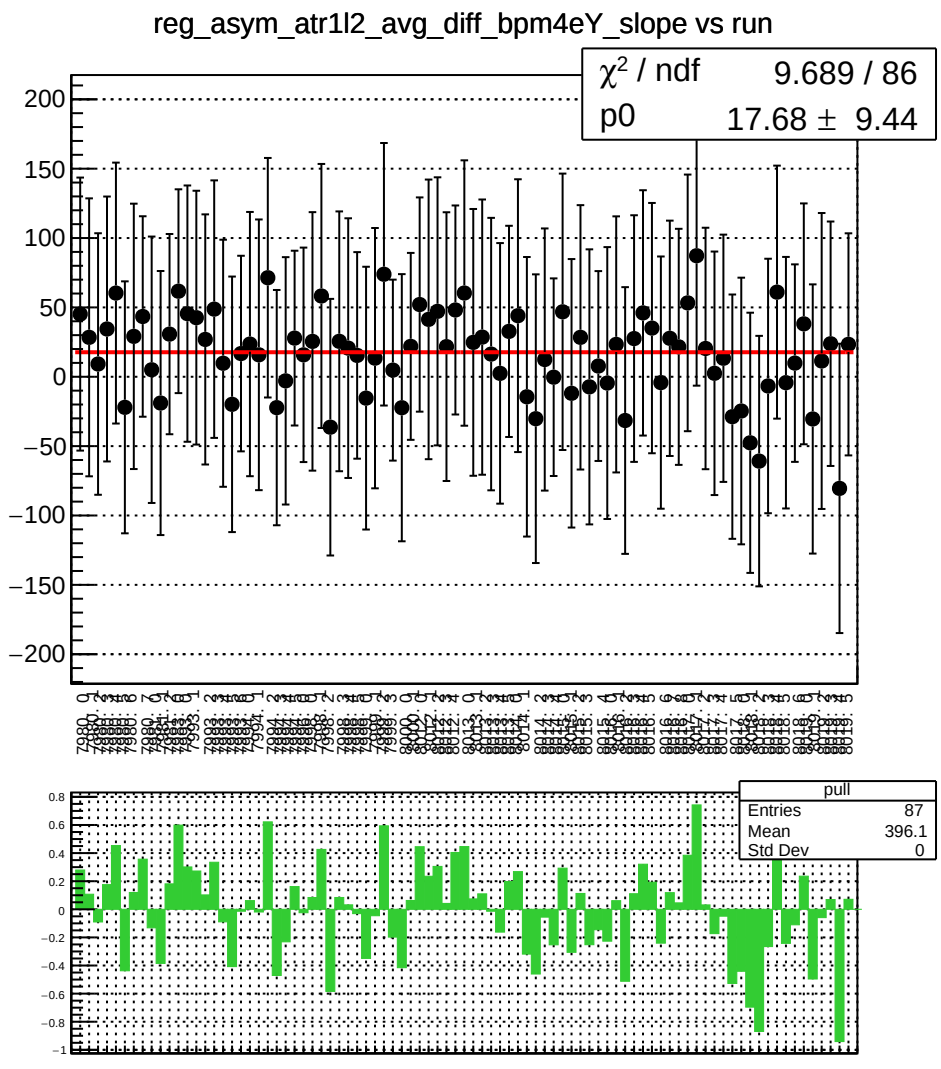

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 158 / 86
p0 −253 ± 6.154
0
−100
−200
−300
−400
pull
Entries 87
Mean −89.86
Std Dev 0
pull1D
Entries 87
Mean 0.2026
Std Dev 1.333

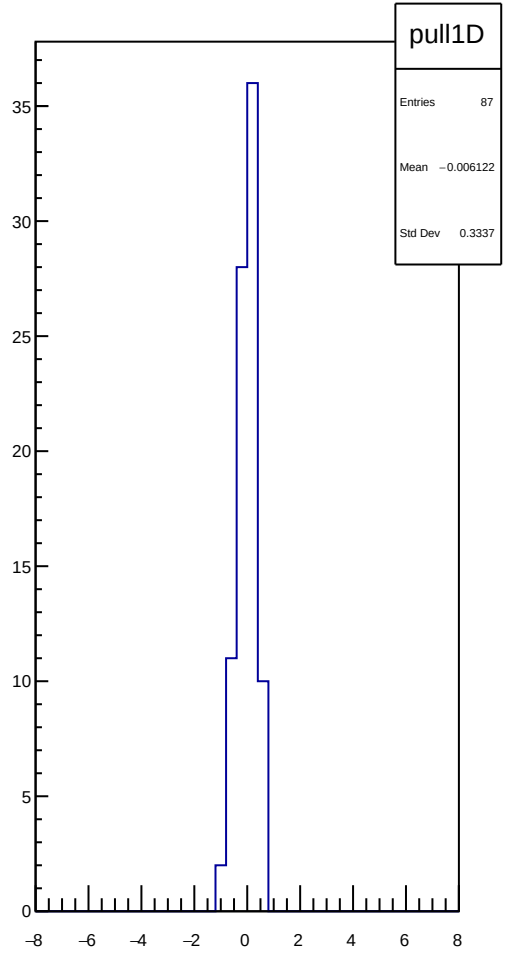

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10 / 86
p0 39.64 ± 8.634
pull
Entries 87
Mean 353.9
Std Dev 0

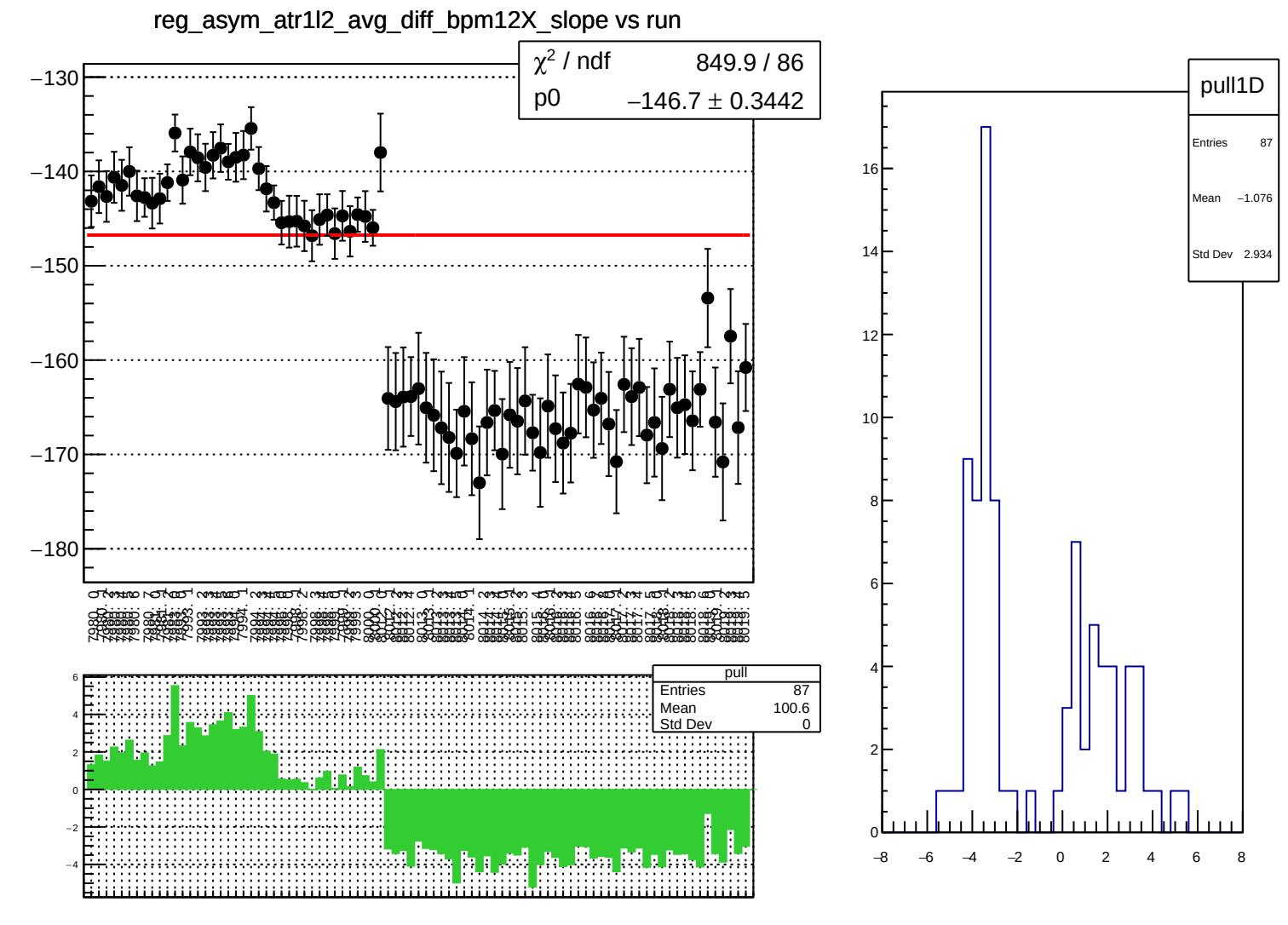

pull1D
Entries 87
Mean 0.007313
Std Dev 0.339

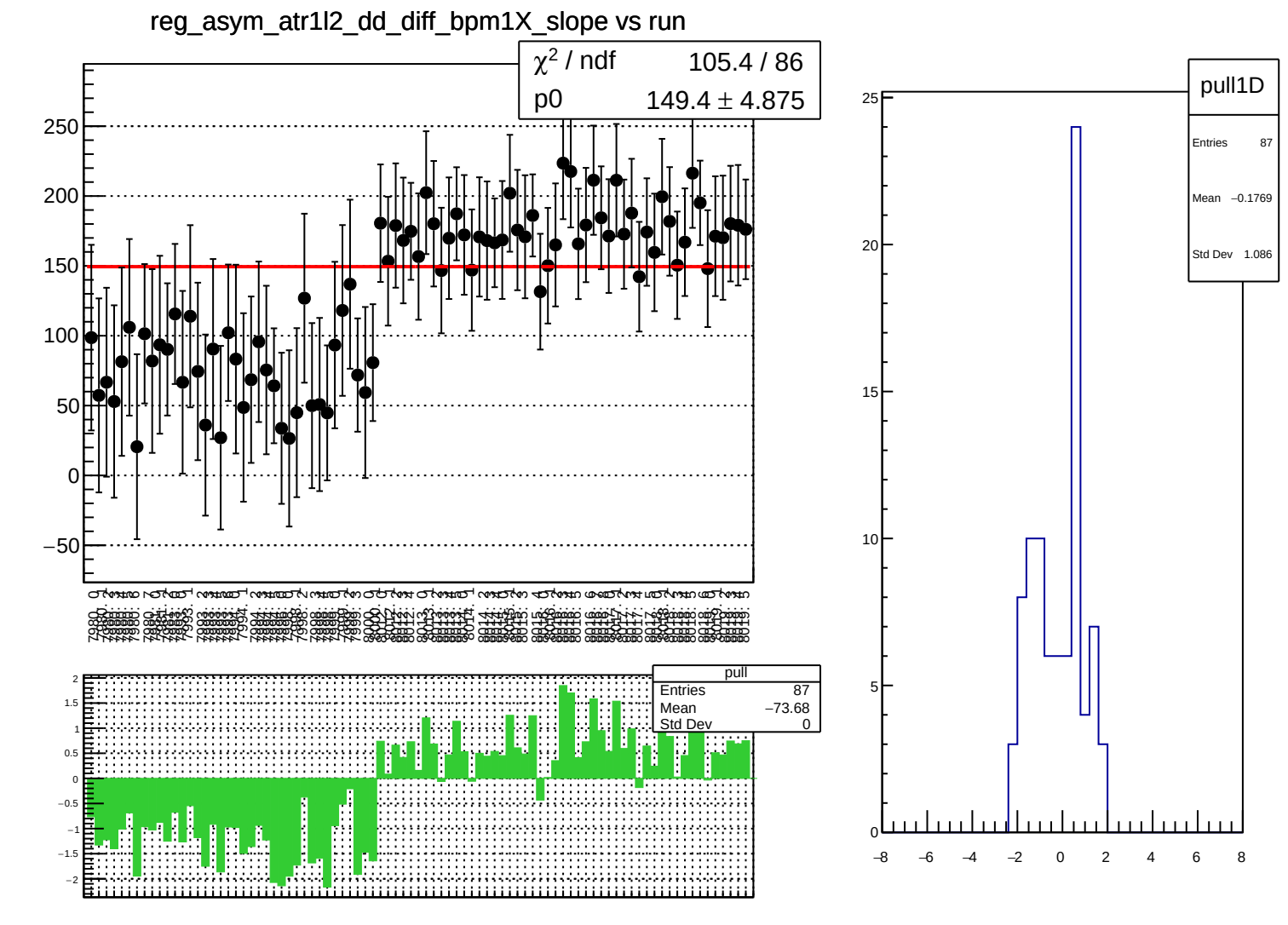

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 87.49 / 86
p0 140.9 ± 6.23
pull
Entries 87
Mean −179.4
Std Dev 0

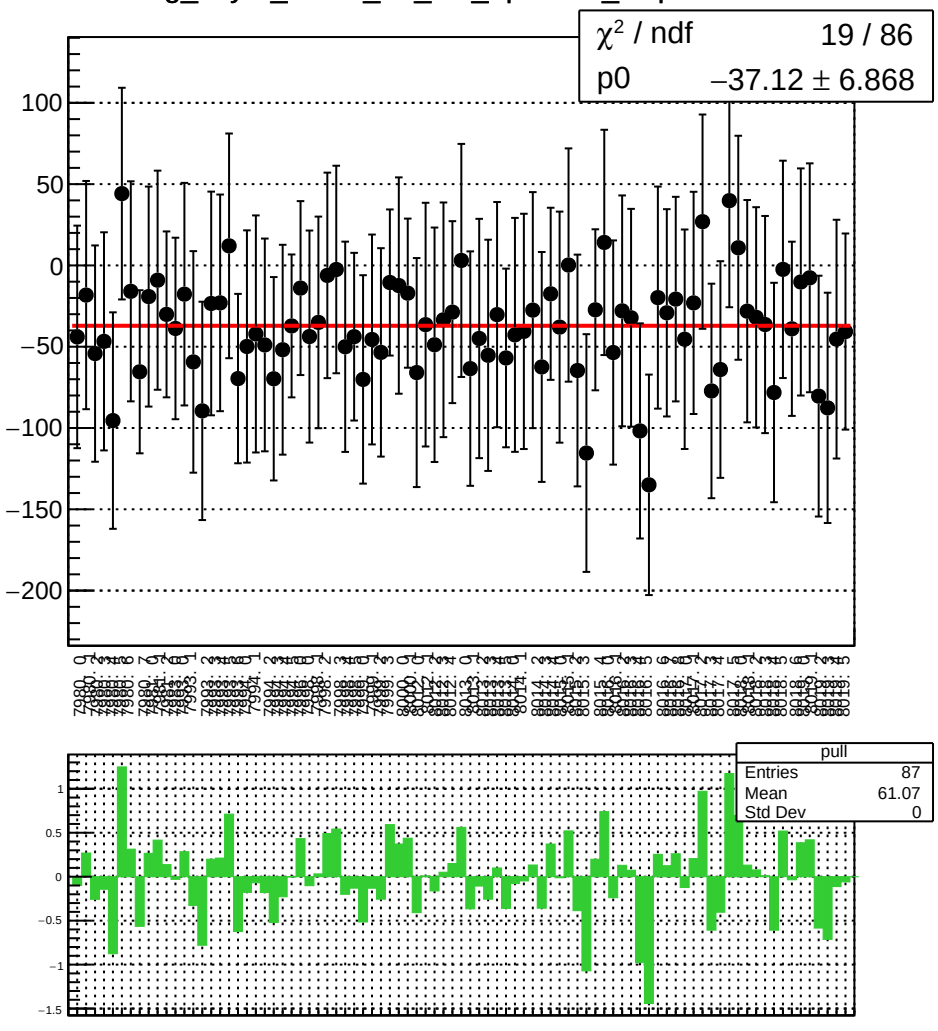

pull1D
Entries 87
Mean −0.08913
Std Dev 0.9988

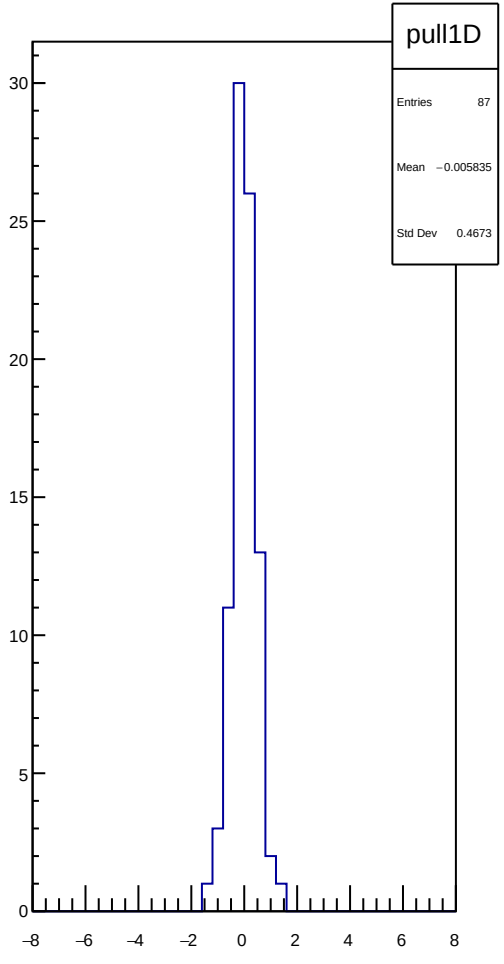

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.689 / 86
p0 17.68 ± 9.44
pull
Entries 87
Mean 396.1
Std Dev 0

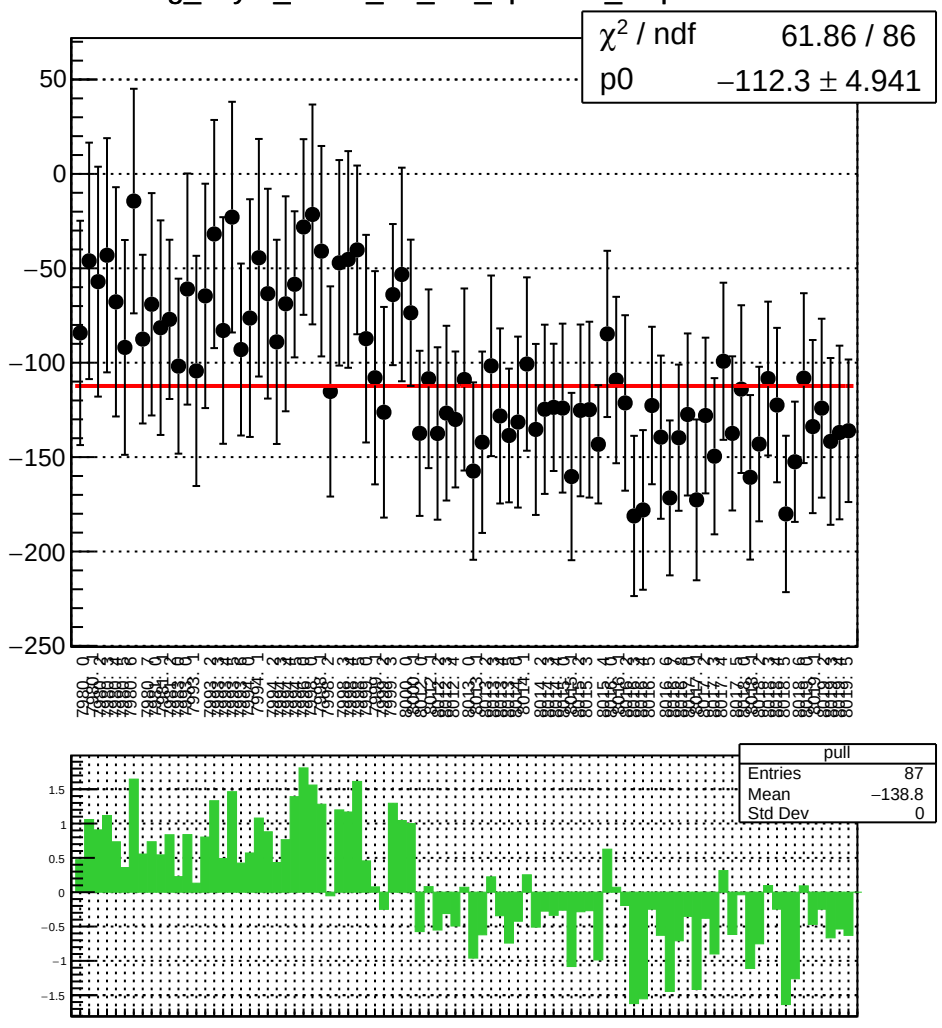

pull1D
Entries 87
Mean −0.006122
Std Dev 0.3337

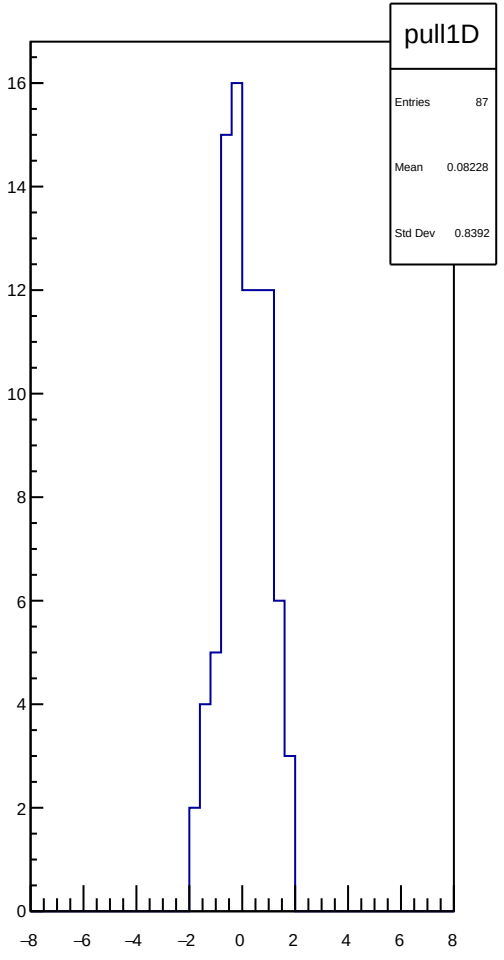

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 849.9 / 86
p0 −146.7 ± 0.3442
−130
−140
−150
−160
−170
−180
pull
Entries 87
Mean 100.6
Std Dev 0
pull1D
Entries 87
Mean −1.076
Std Dev 2.934

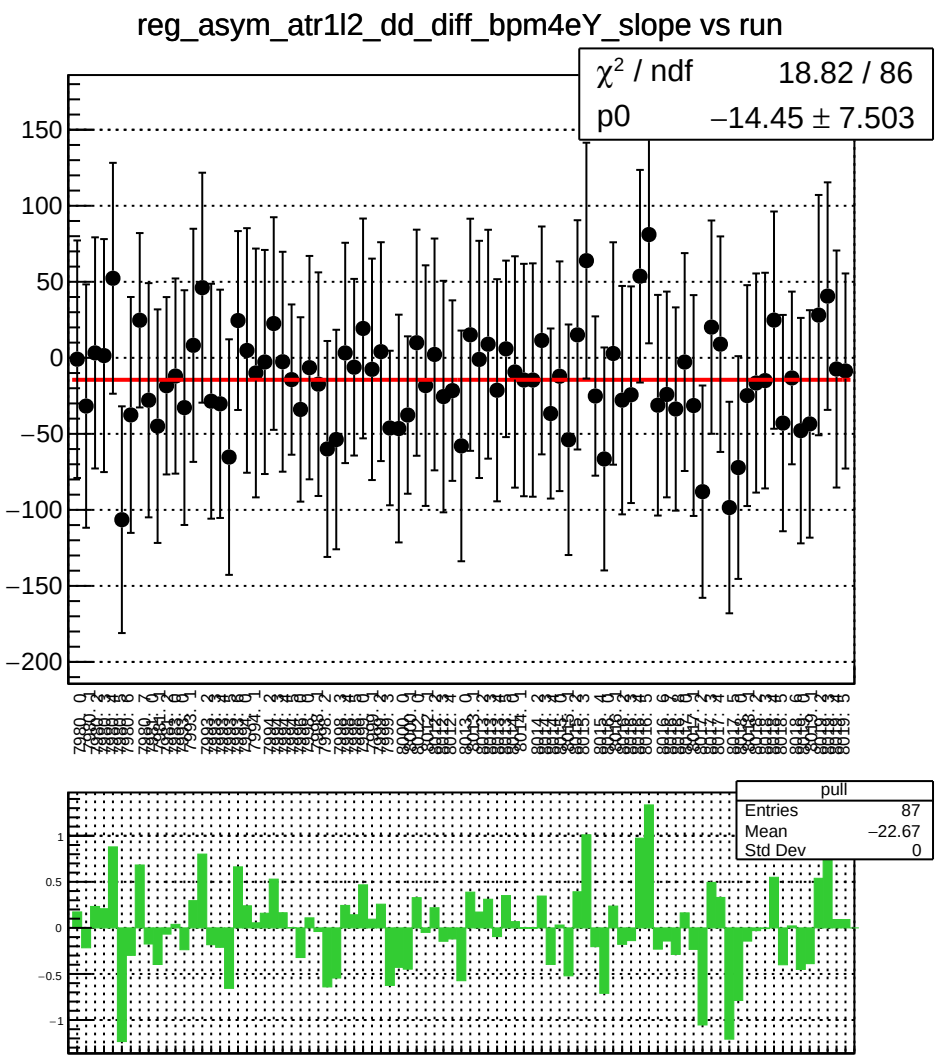

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 105.4 / 86
p0 149.4 ± 4.875
pull
Entries 87
Mean −73.68
Std Dev 0
pull1D
Entries 87
Mean −0.1769
Std Dev 1.086

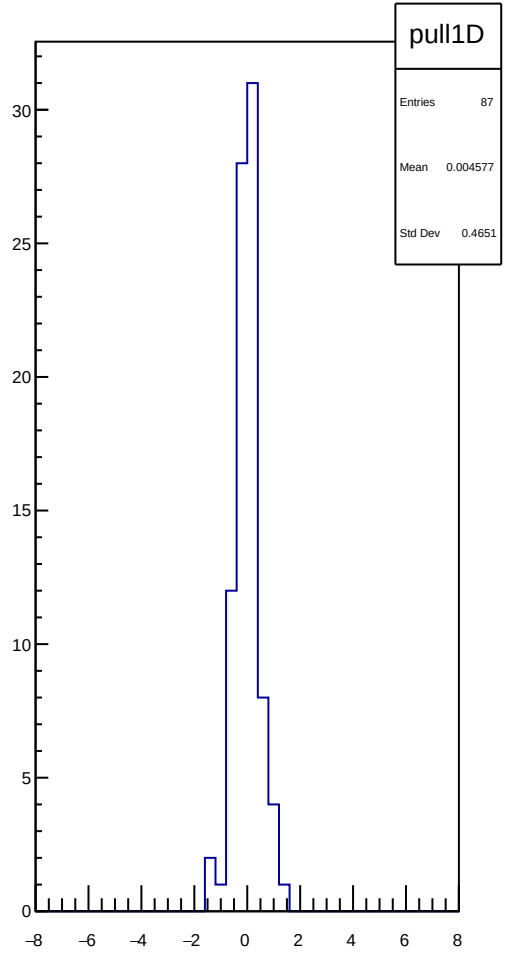

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 19 / 86
p0 −37.12 ± 6.868
pull
Entries 87
Mean 61.07
Std Dev 0

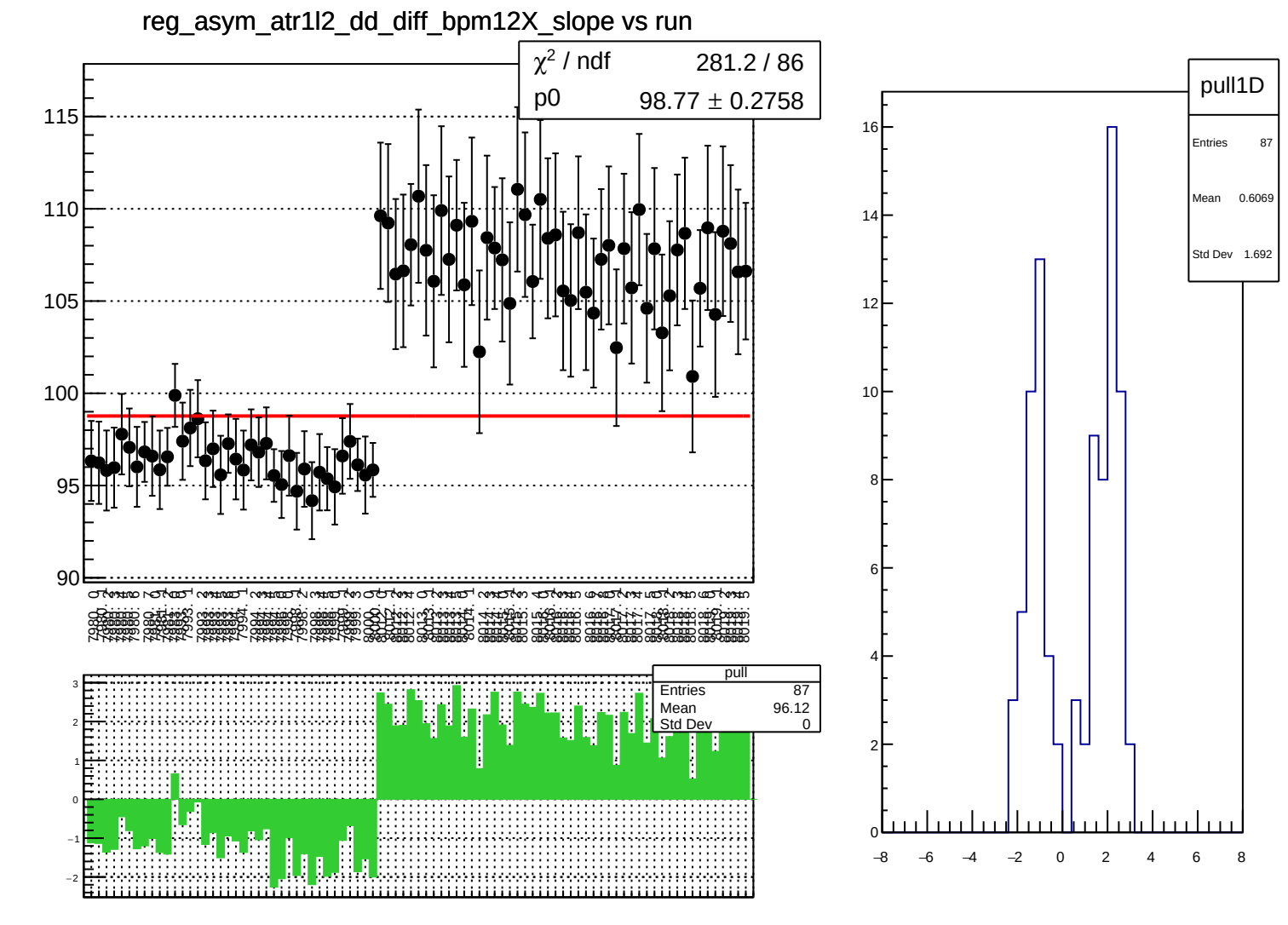

pull1D
Entries 87
Mean −0.005835
Std Dev 0.4673

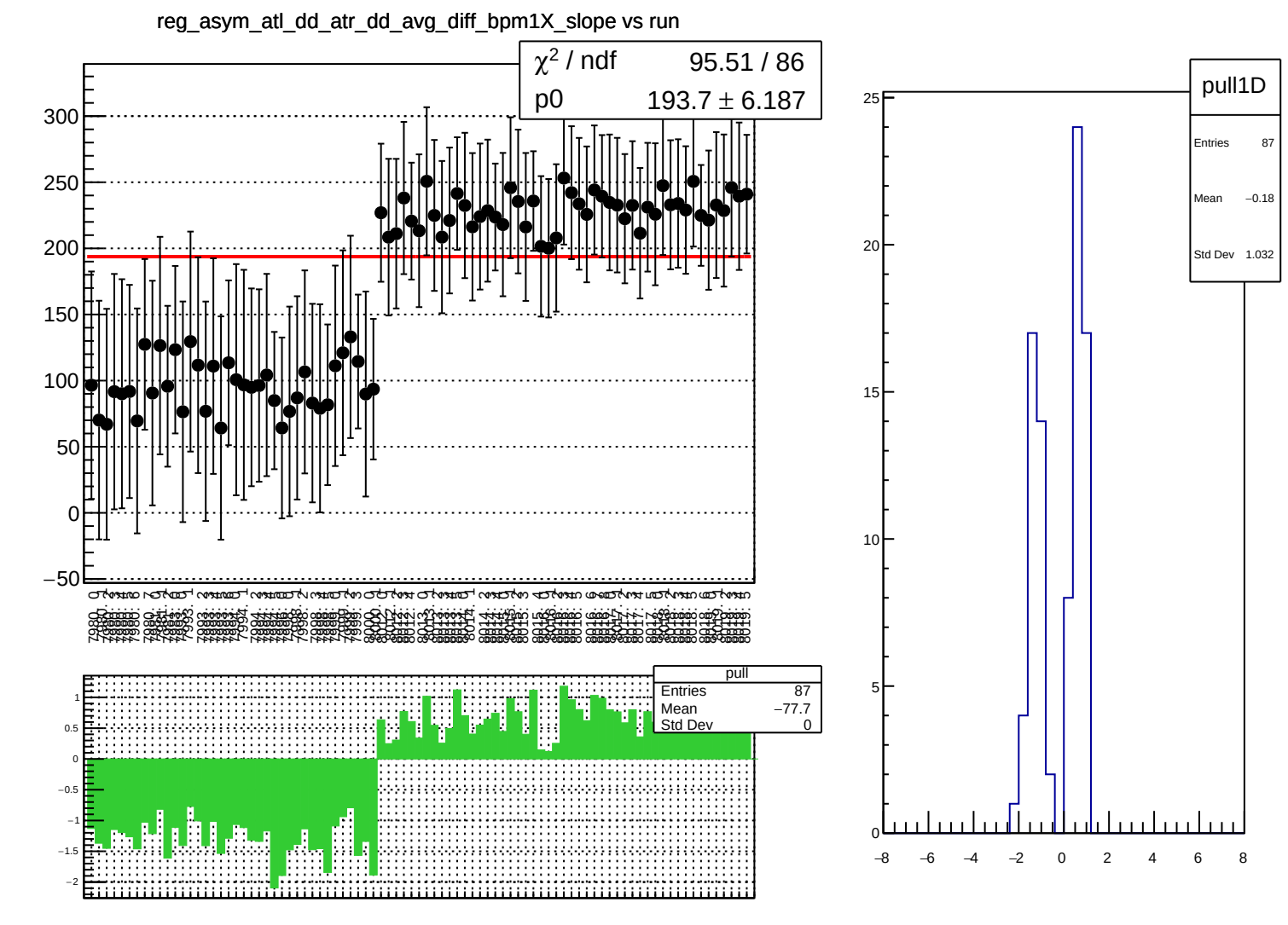

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.86 / 86
p0 −112.3 ± 4.941
pull
Entries 87
Mean −138.8
Std Dev 0

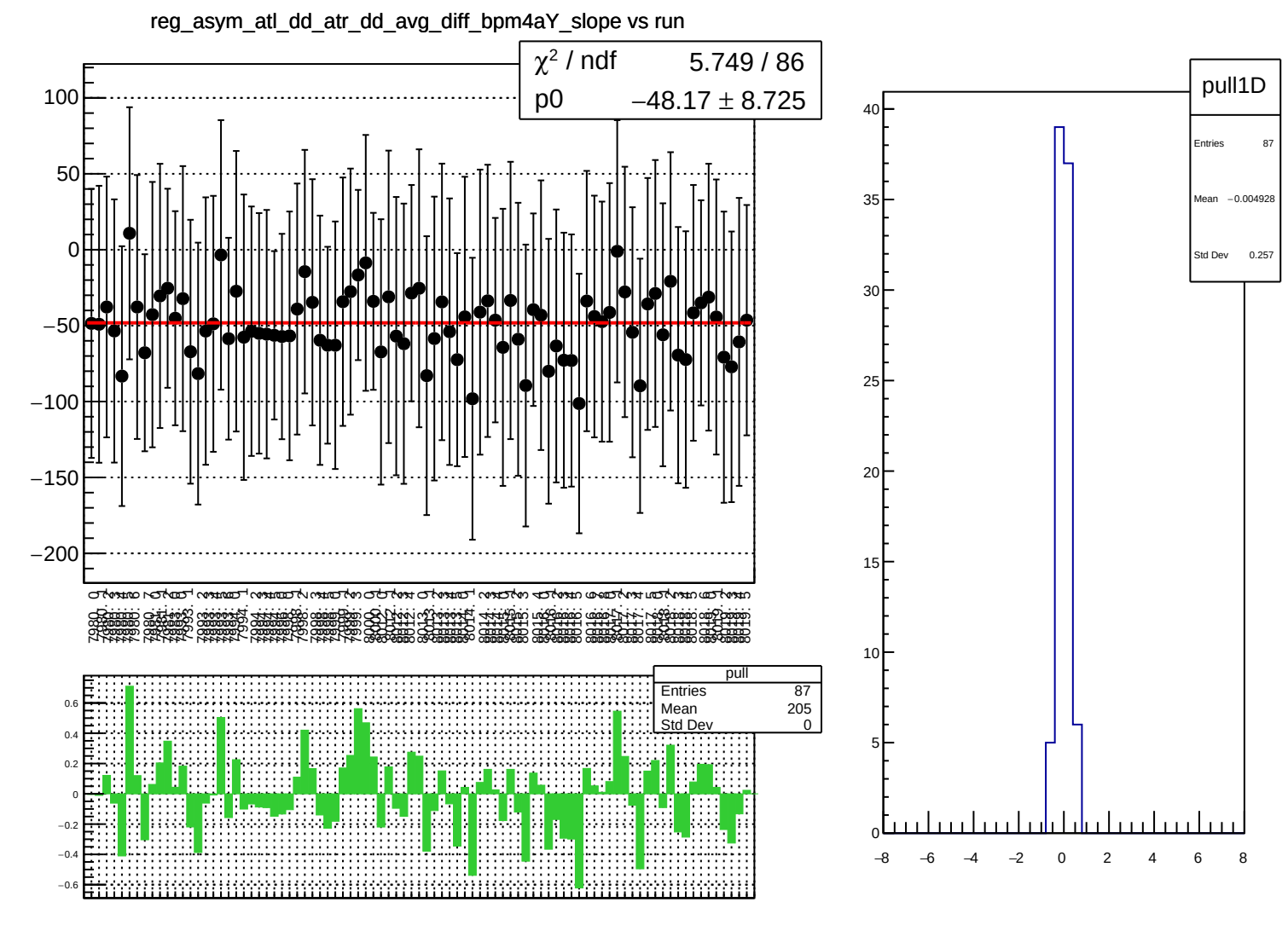

pull1D
Entries 87
Mean 0.08228
Std Dev 0.8392

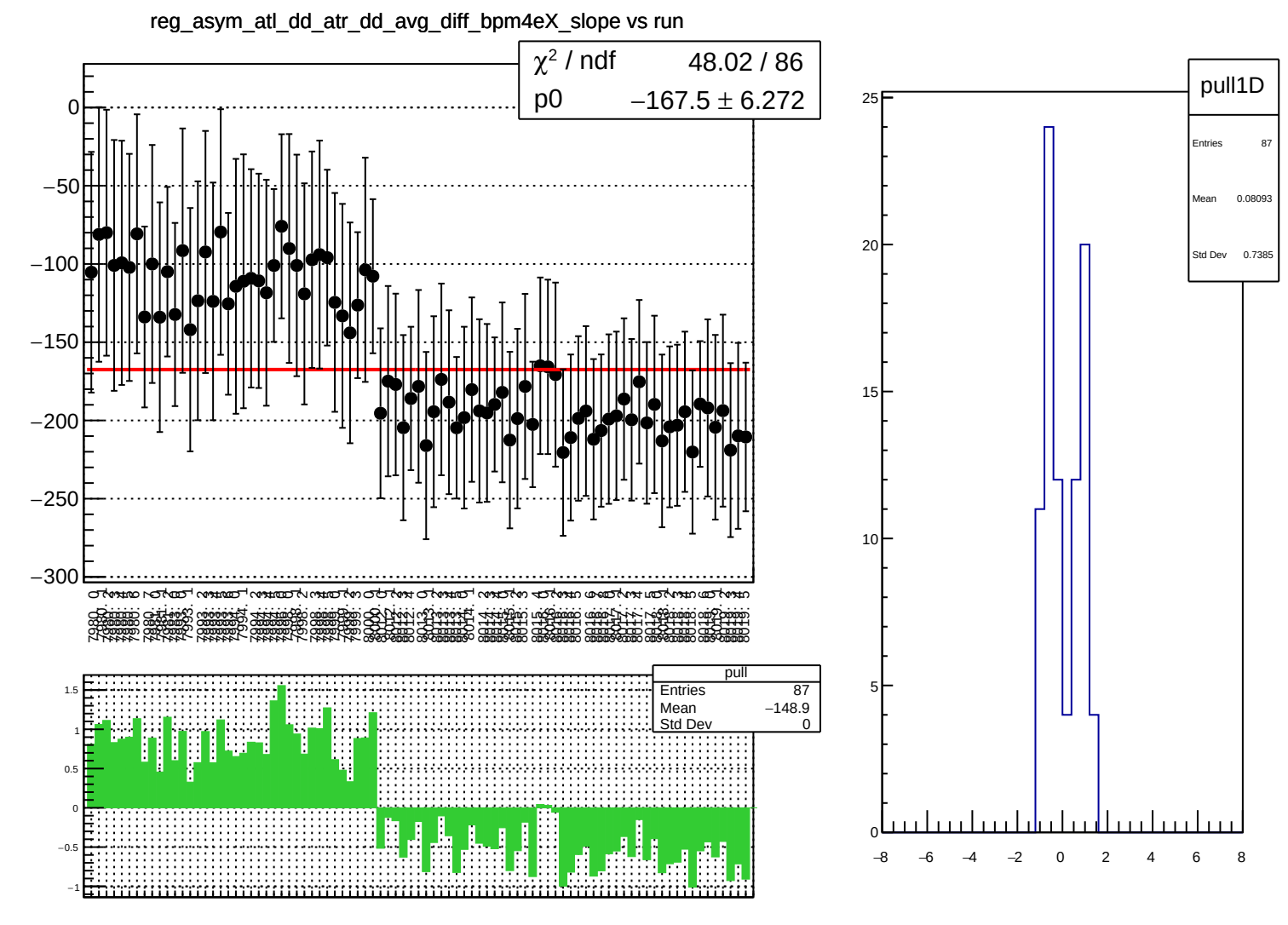

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.82 / 86
p0 −14.45 ± 7.503
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −22.67
Std Dev 0
1
0.5
0
−0.5
−1

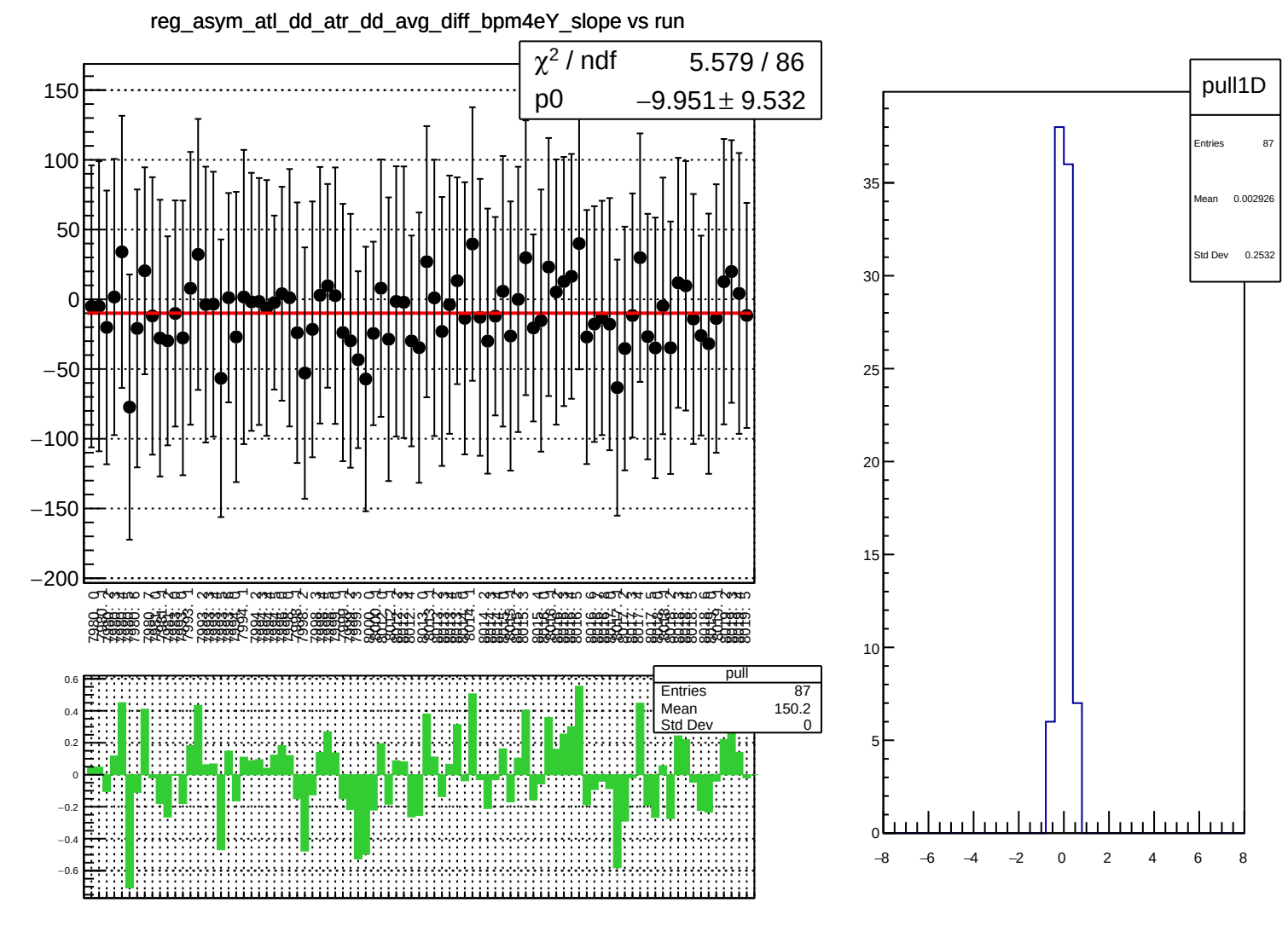

pull1D
Entries 87
Mean 0.004577
Std Dev 0.4651
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

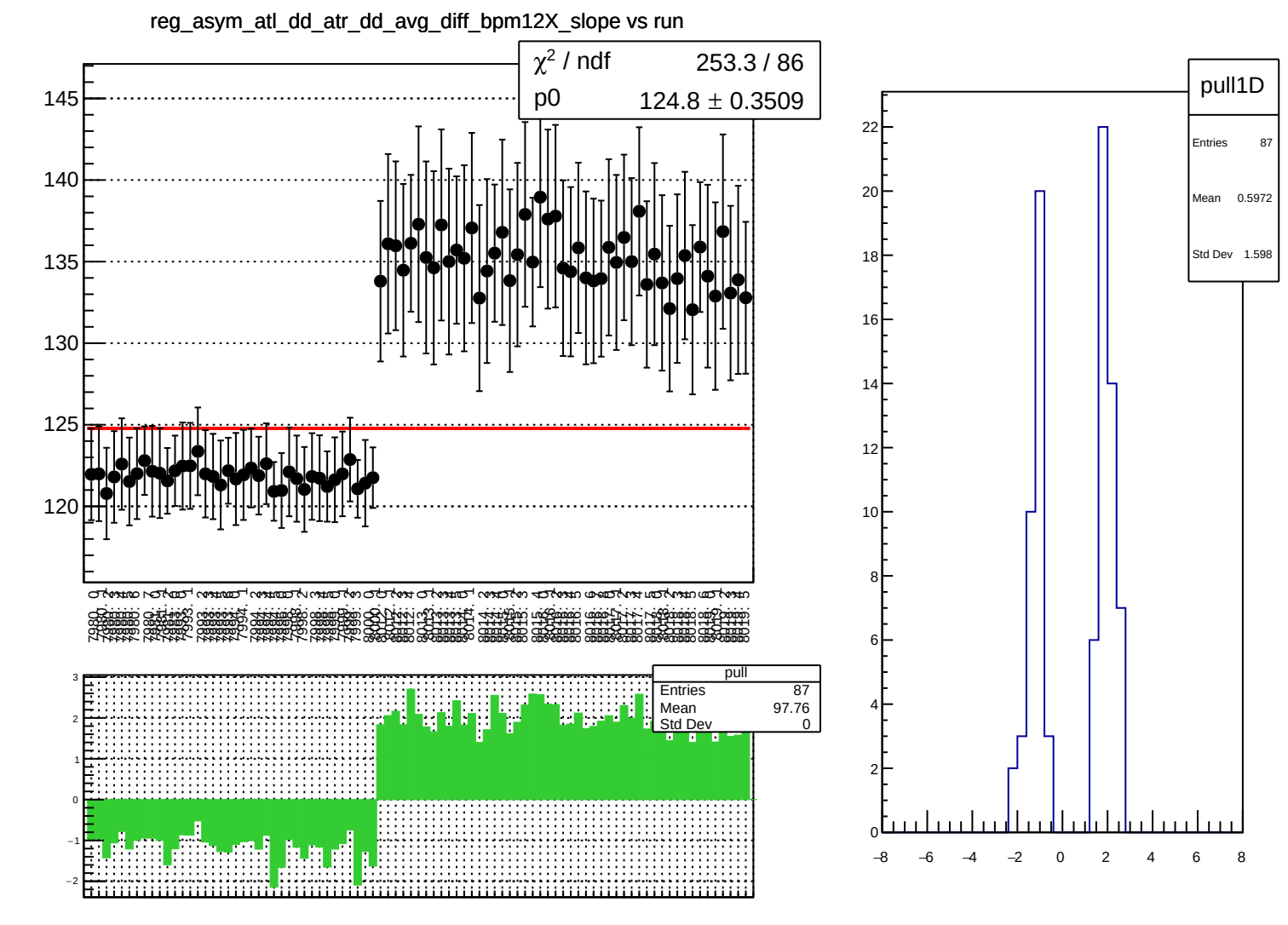

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 281.2 / 86
p0 98.77 ± 0.2758
pull
Entries 87
Mean 96.12
Std Dev 0
pull1D
Entries 87
Mean 0.6069
Std Dev 1.692

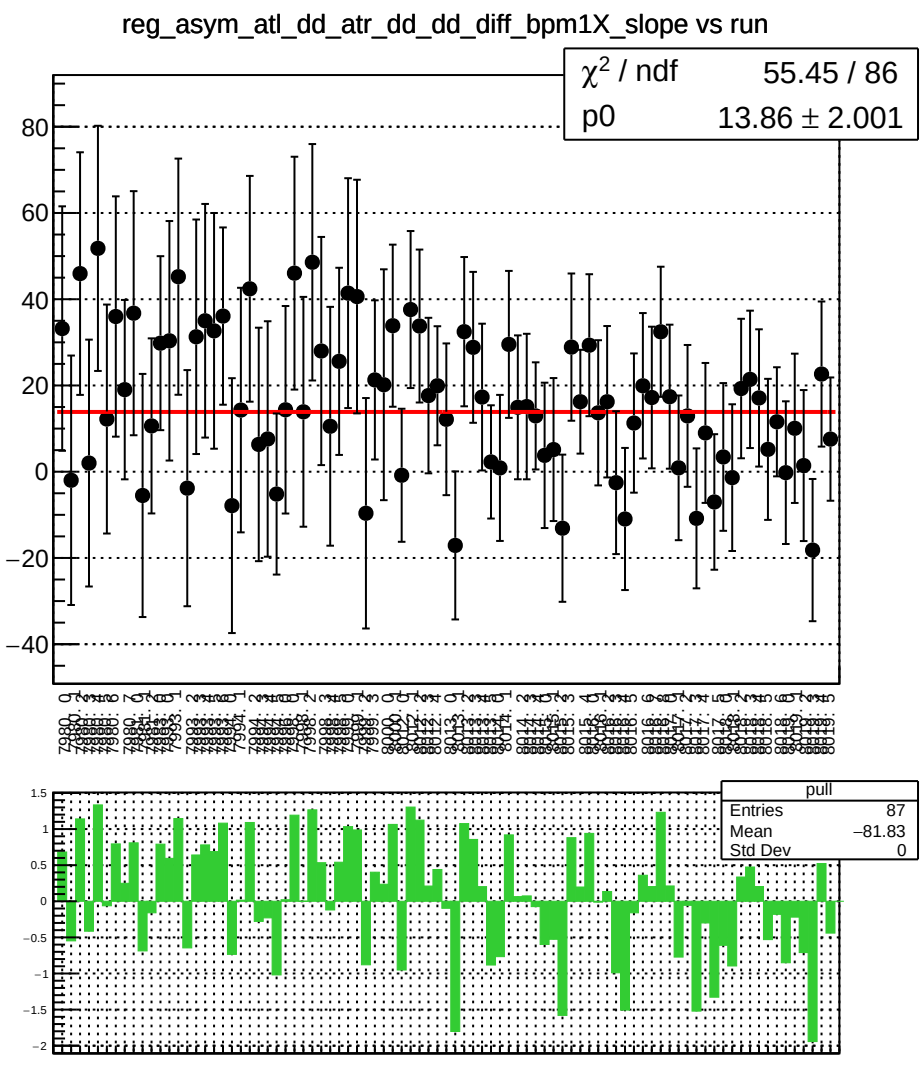

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 95.51 / 86
p0 193.7 ± 6.187
pull
Entries 87
Mean −77.7
Std Dev 0
pull1D
Entries 87
Mean −0.18
Std Dev 1.032

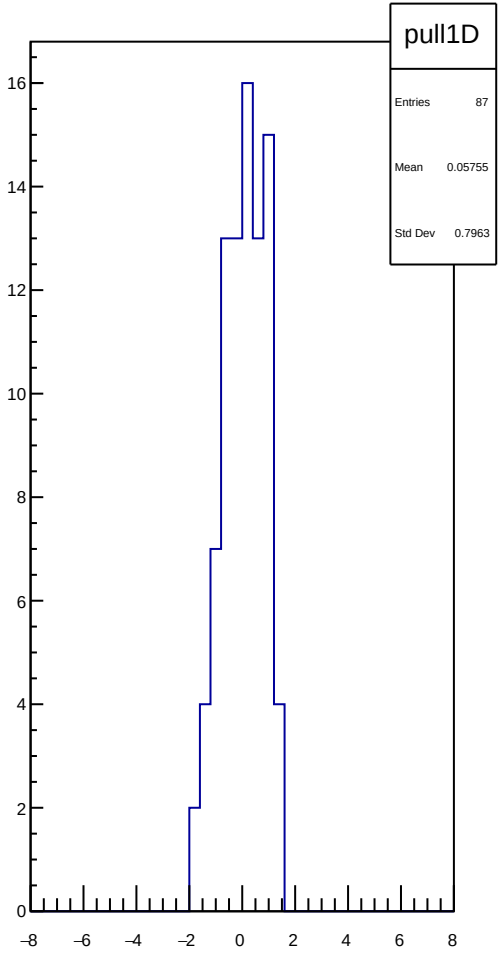

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.749 / 86
p0 −48.17 ± 8.725
pull
Entries 87
Mean 205
Std Dev 0
pull1D
Entries 87
Mean −0.004928
Std Dev 0.257

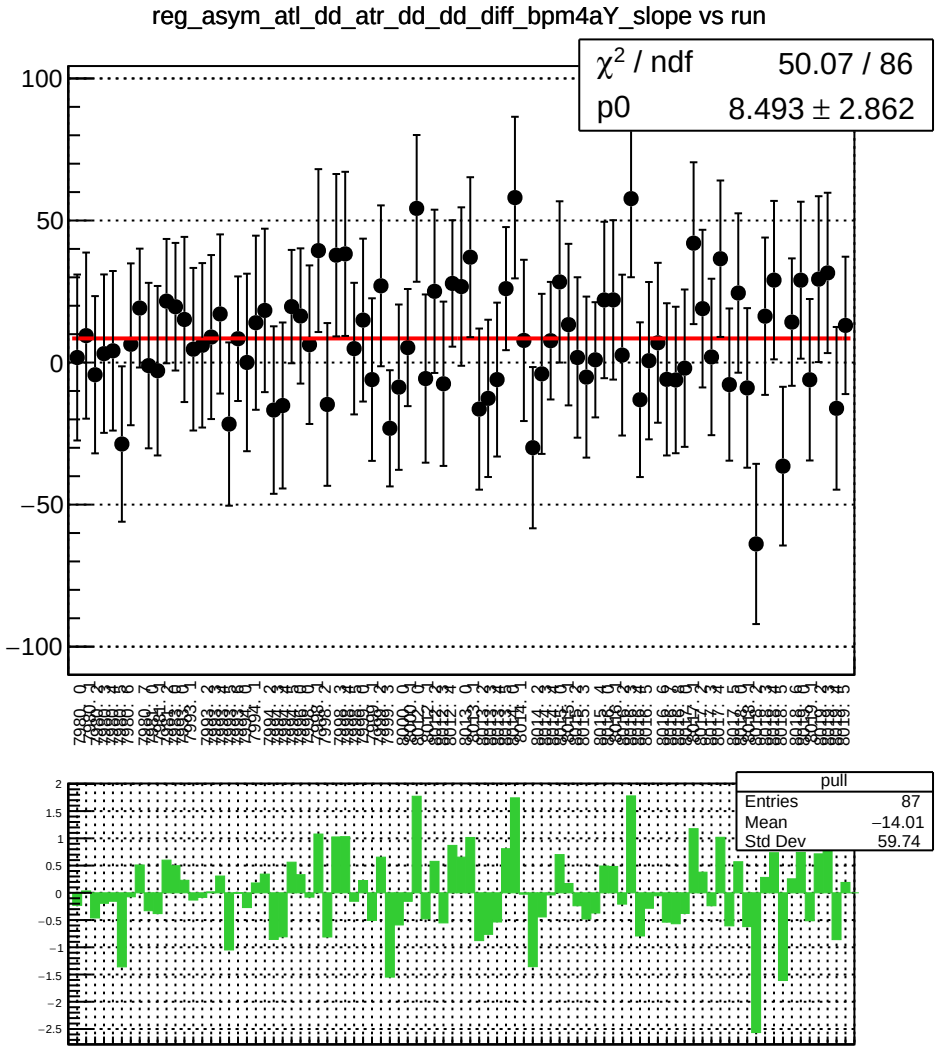

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.02 / 86
p0 −167.5 ± 6.272
pull
Entries 87
Mean −148.9
Std Dev 0
pull1D
Entries 87
Mean 0.08093
Std Dev 0.7385

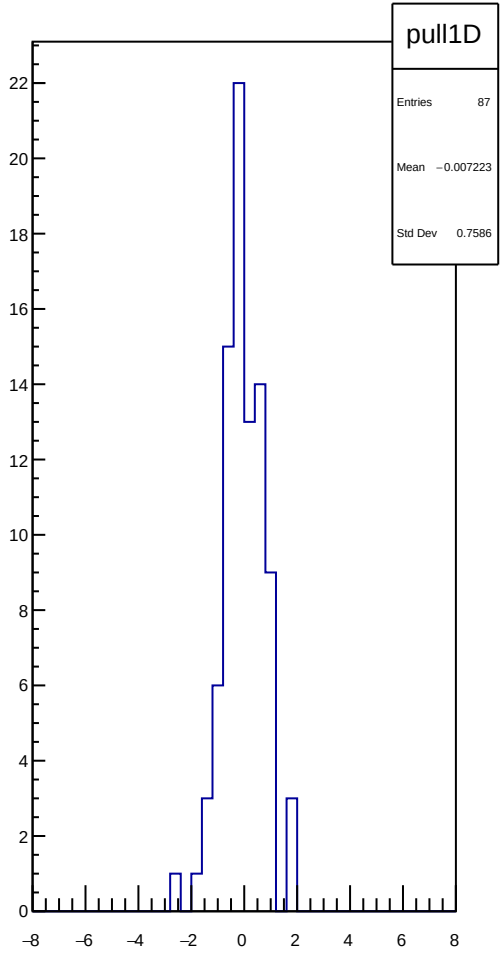

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.579 / 86
p0 −9.951 ± 9.532
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean 150.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 87
Mean 0.002926
Std Dev 0.2532
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

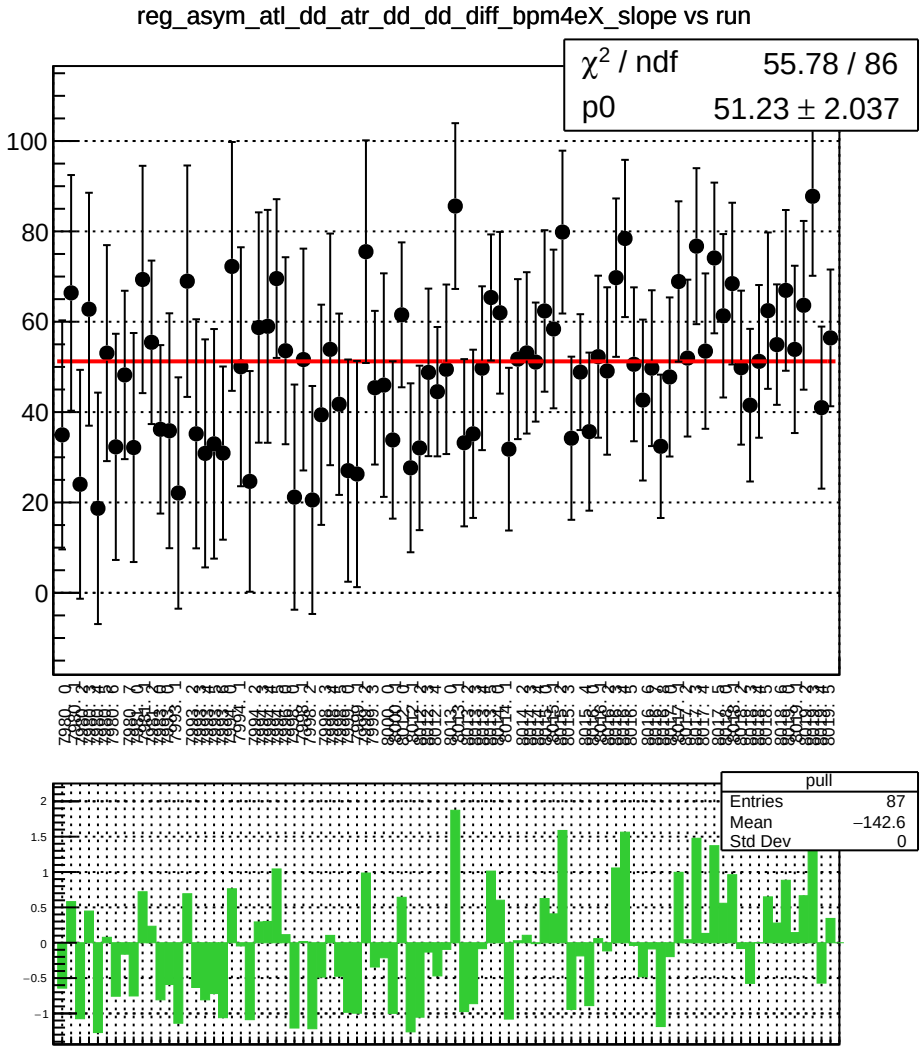

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 253.3 / 86
p0 124.8 ± 0.3509
145
140
135
130
125
120
pull
Entries 87
Mean 97.76
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.5972
Std Dev 1.598
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

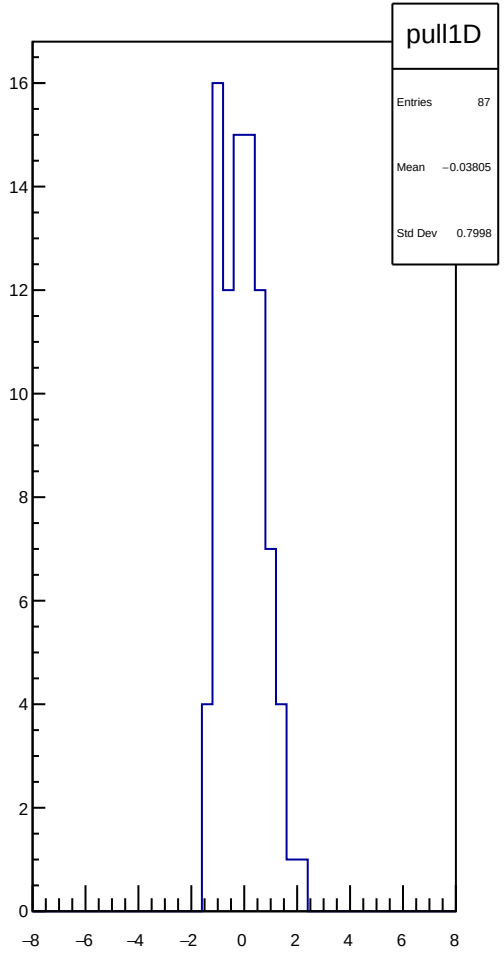

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 55.45 / 86
p0 13.86 ± 2.001
pull
Entries 87
Mean −81.83
Std Dev 0

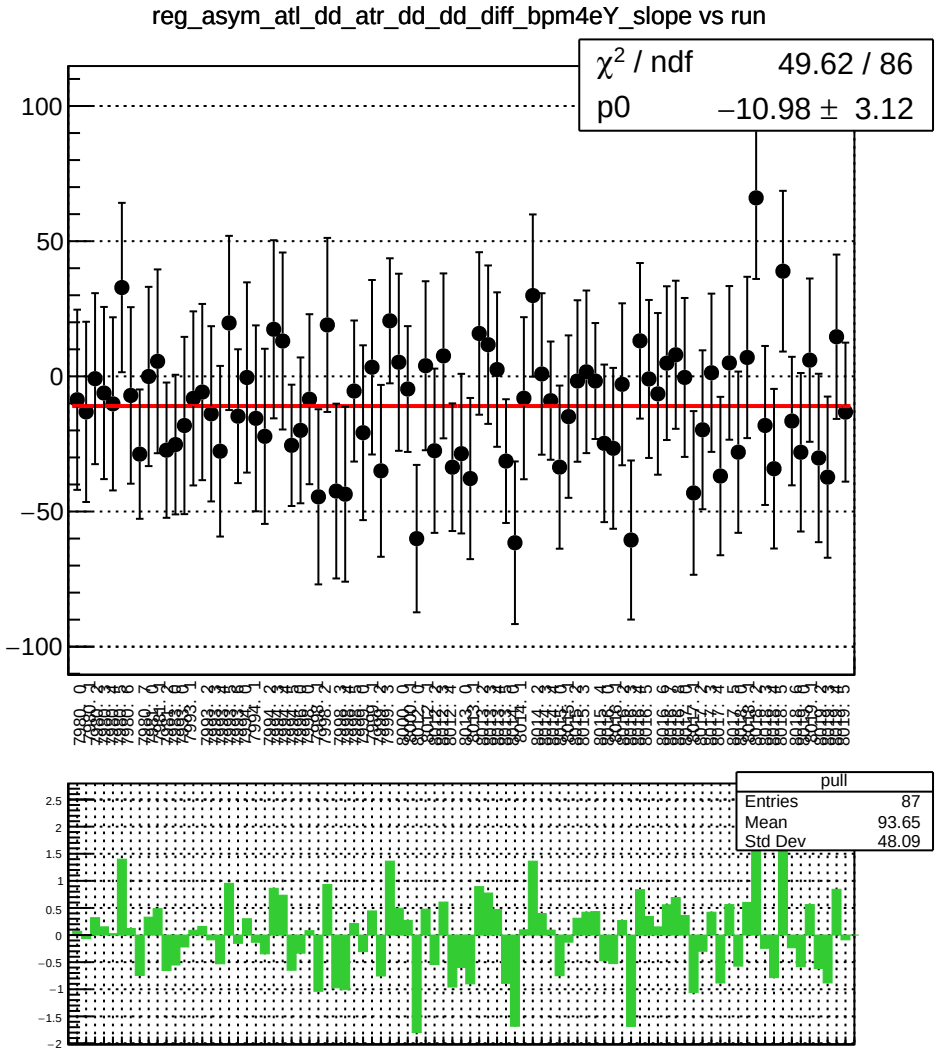

pull1D
Entries 87
Mean 0.05755
Std Dev 0.7963

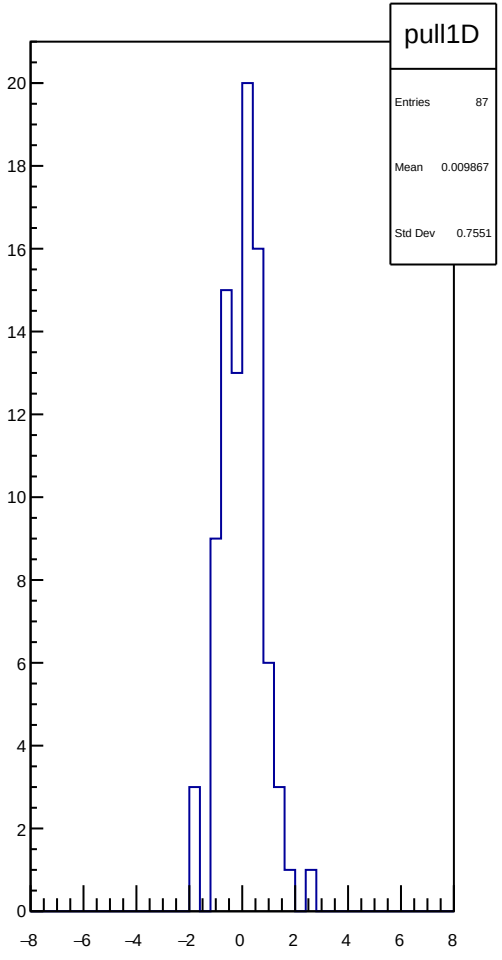

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 50.07 / 86
p0 8.493 ± 2.862
100
50
0
−50
−100
pull
Entries 87
Mean −14.01
Std Dev 59.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

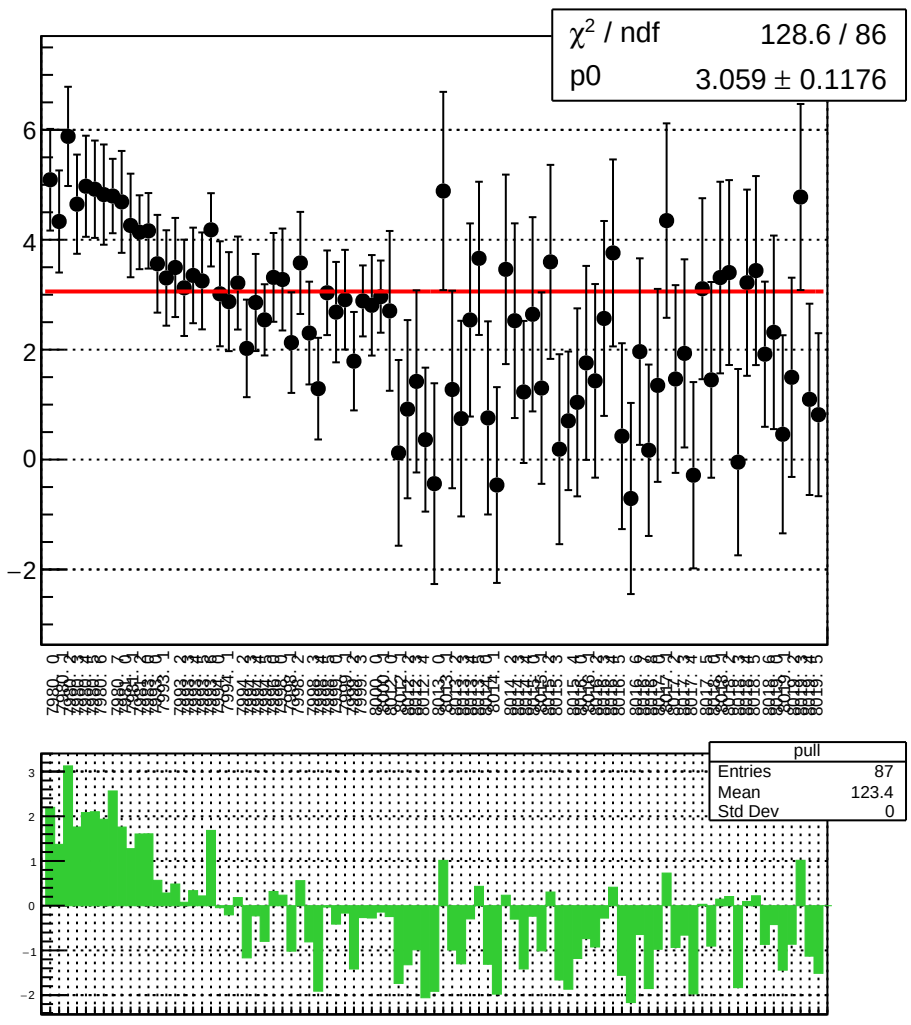

pull1D
Entries 87
Mean −0.007223
Std Dev 0.7586
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

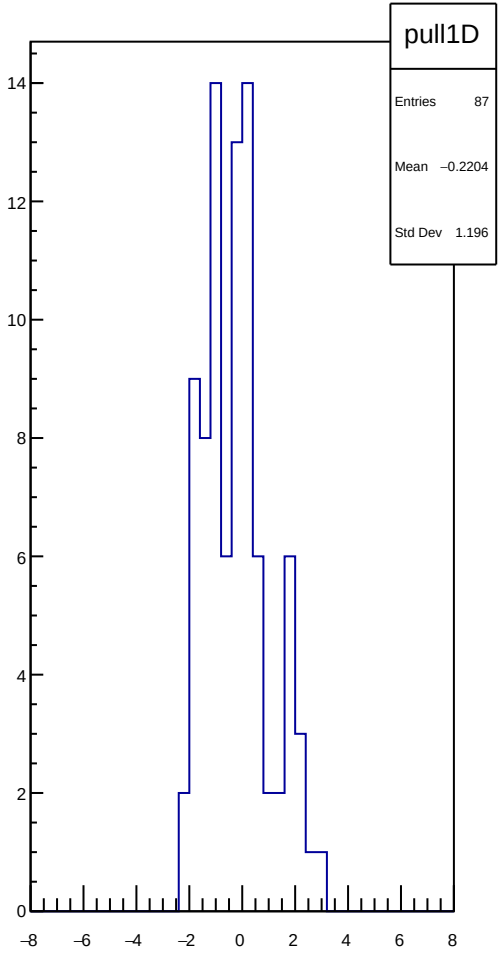

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 55.78 / 86
p0 51.23 ± 2.037
pull
Entries 87
Mean −142.6
Std Dev 0

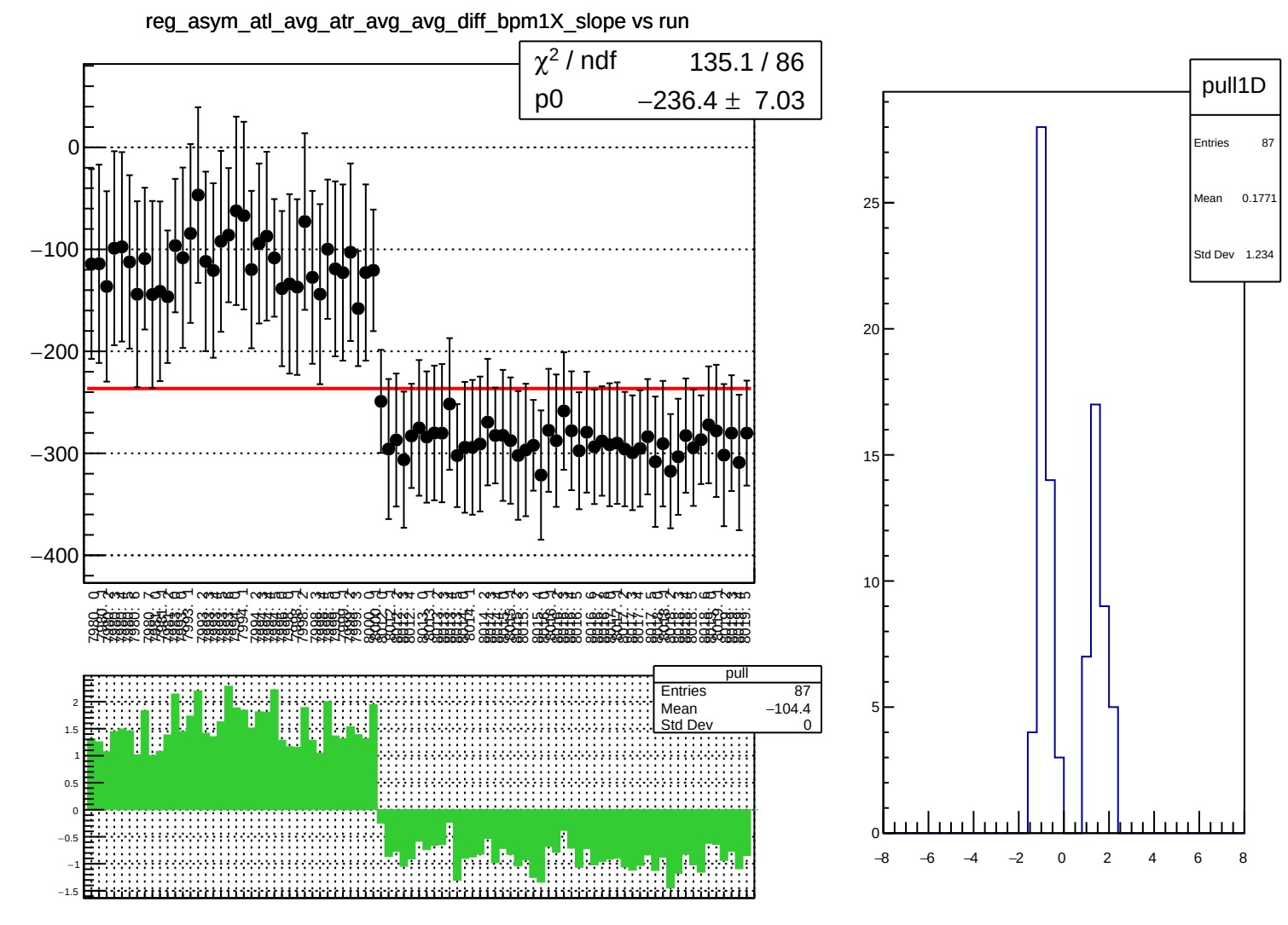

pull1D
Entries 87
Mean −0.03805
Std Dev 0.7998

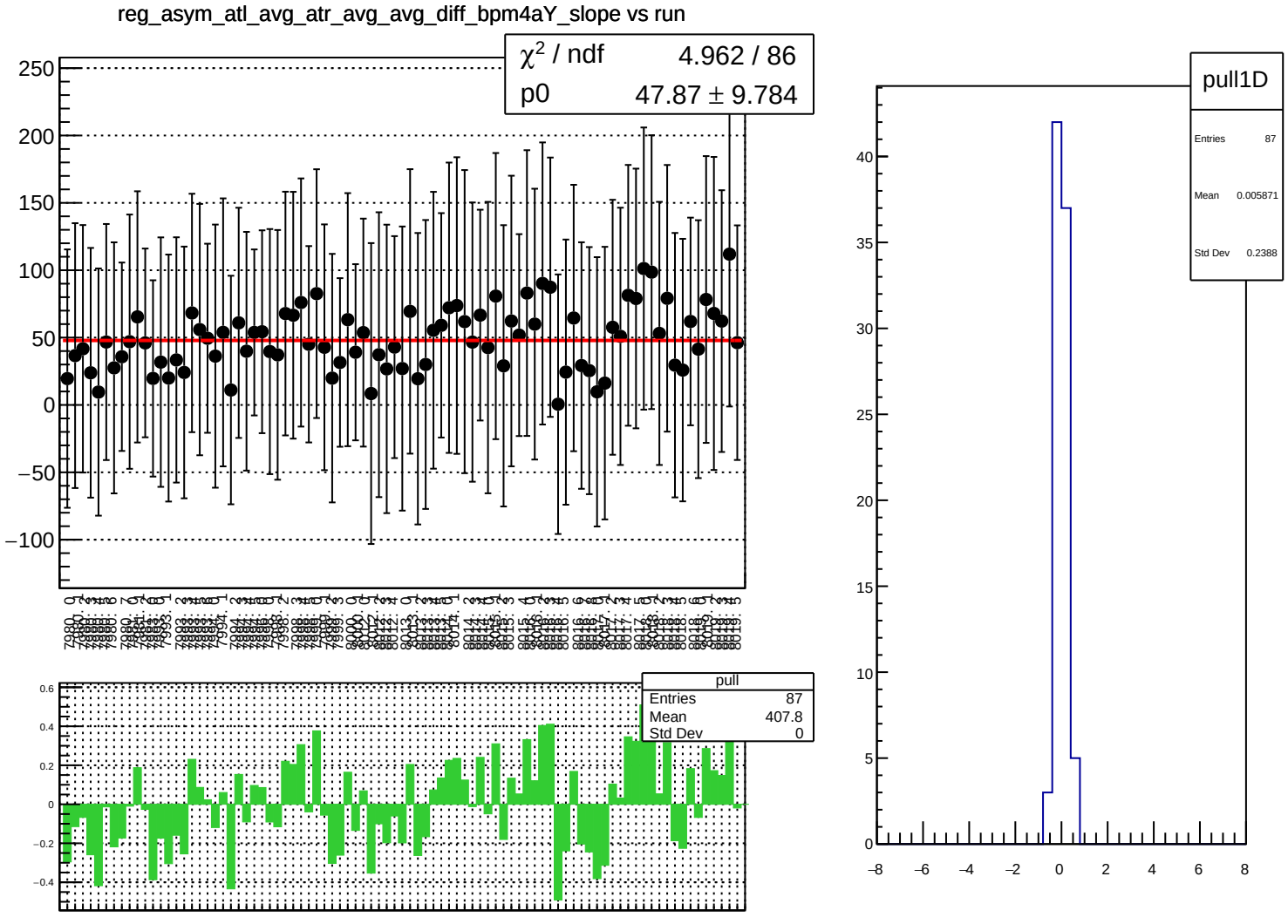

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.62 / 86
p0 −10.98 ± 3.12
pull
Entries 87
Mean 93.65
Std Dev 48.09

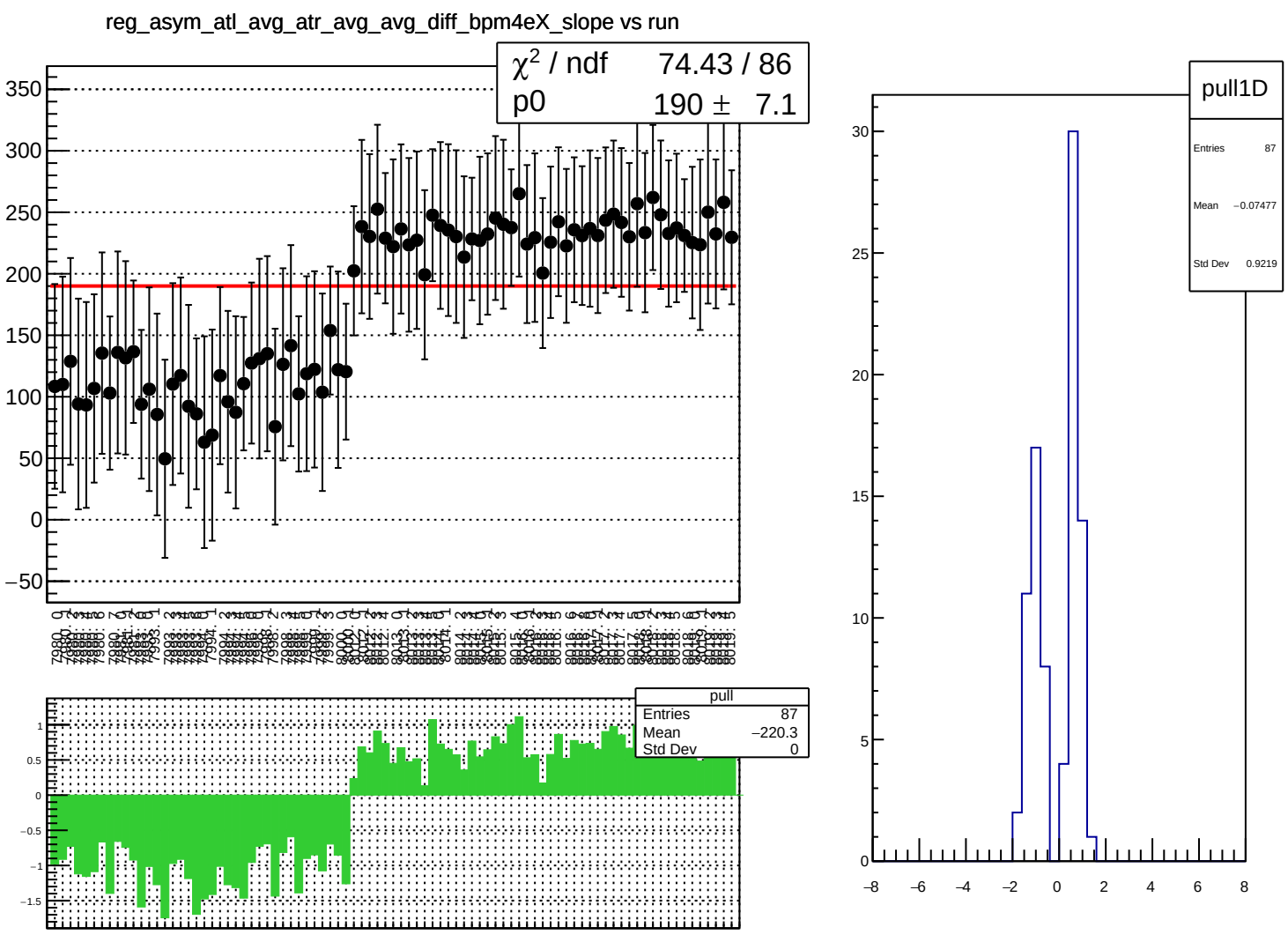

pull1D
Entries 87
Mean 0.009867
Std Dev 0.7551

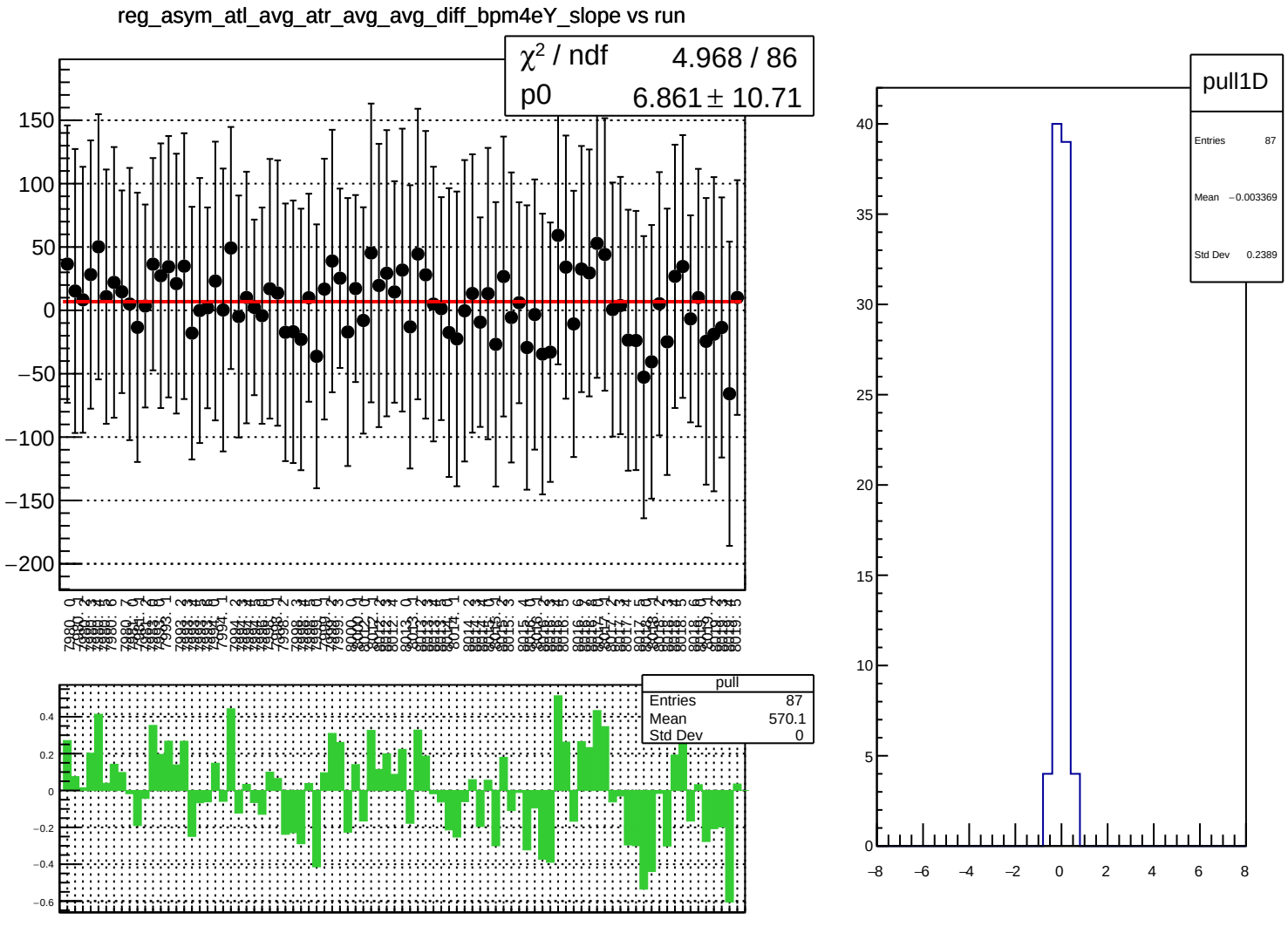

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 128.6 / 86
p0 3.059 ± 0.1176
pull
Entries 87
Mean 123.4
Std Dev 0

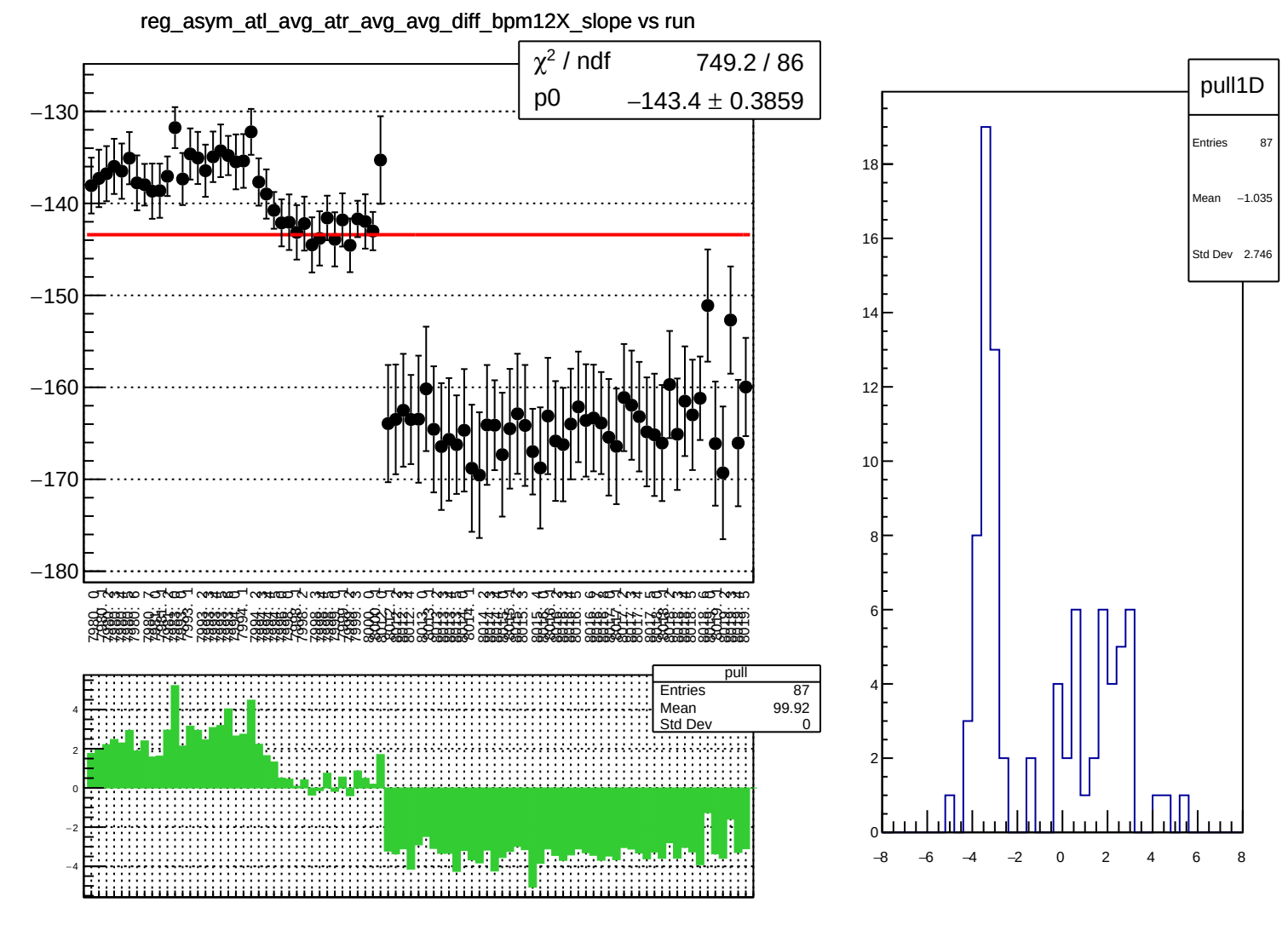

pull1D
Entries 87
Mean −0.2204
Std Dev 1.196

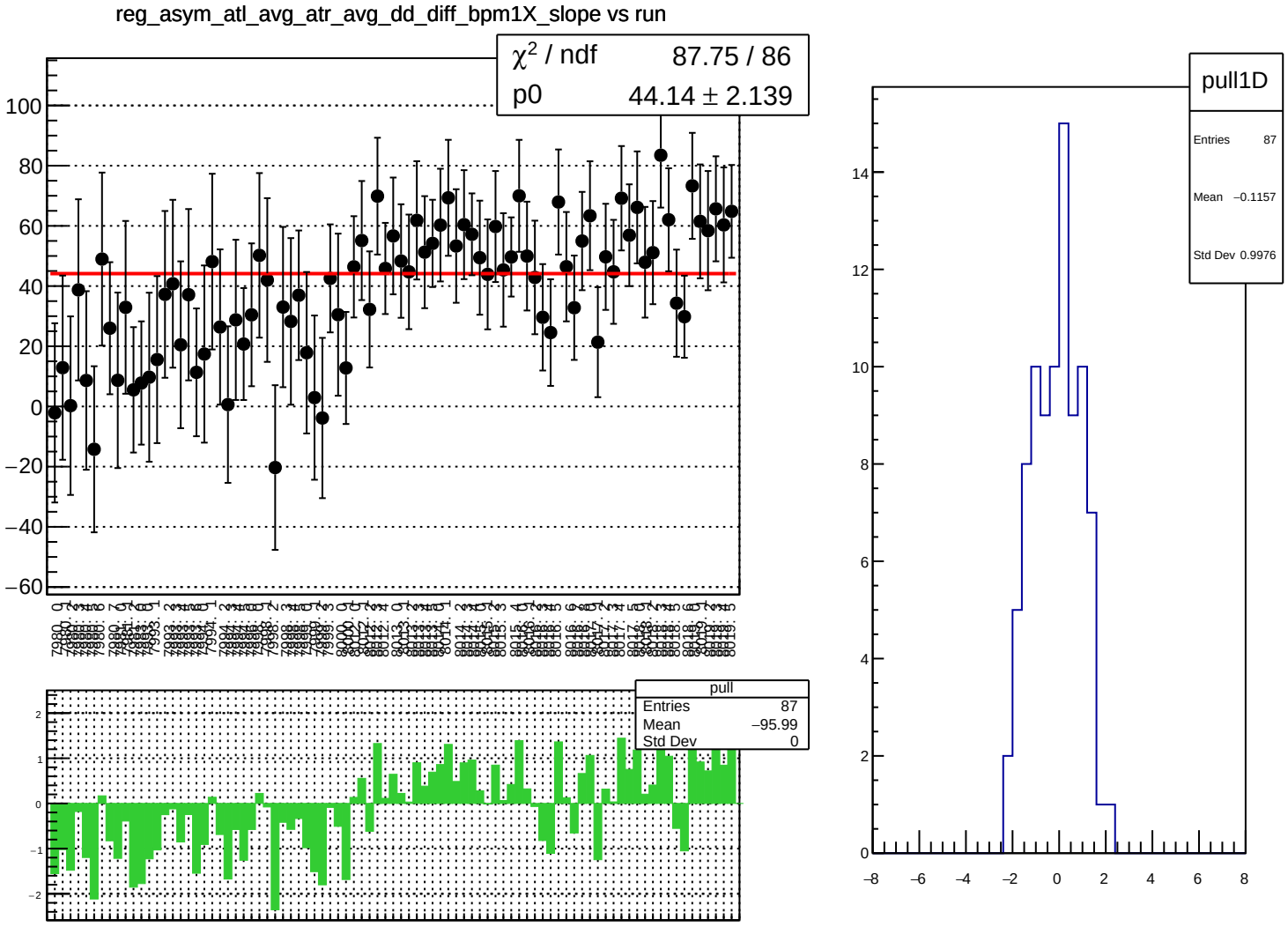

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 135.1 / 86
p0 −236.4 ± 7.03
0
−100
−200
−300
−400
pull
Entries 87
Mean −104.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.1771
Std Dev 1.234
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

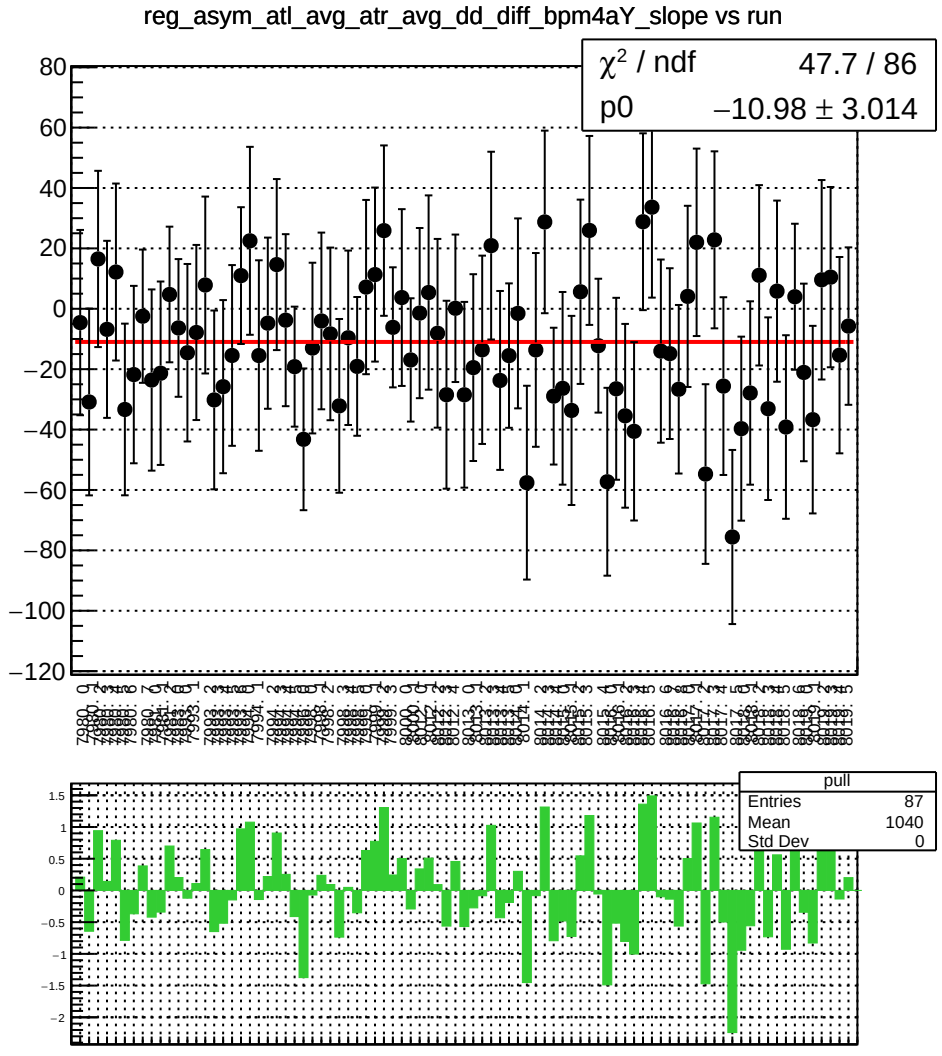

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.962 / 86
p0 47.87 ± 9.784
pull
Entries 87
Mean 407.8
Std Dev 0
pull1D
Entries 87
Mean 0.005871
Std Dev 0.2388

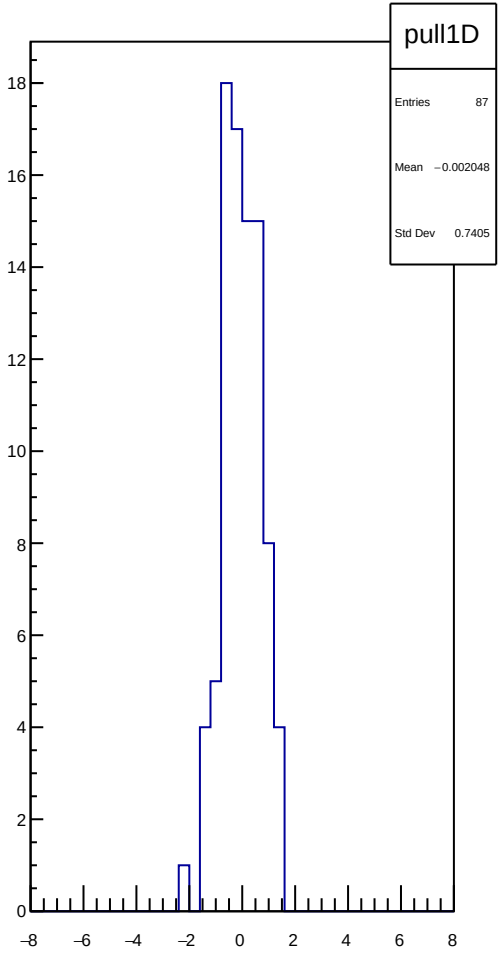

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.43 / 86
p0 190 ± 7.1
pull
Entries 87
Mean −220.3
Std Dev 0
pull1D
Entries 87
Mean −0.07477
Std Dev 0.9219

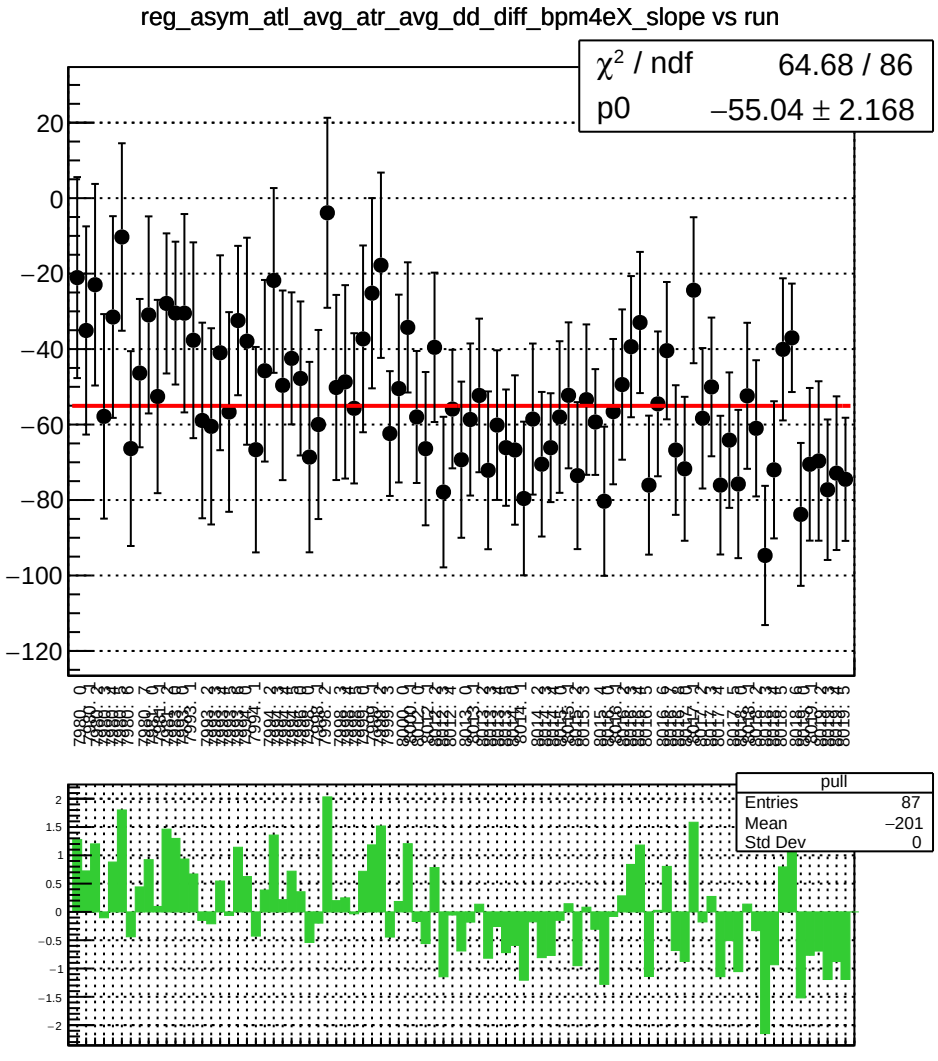

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.968 / 86
p0 6.861 ± 10.71
pull
Entries 87
Mean 570.1
Std Dev 0
pull1D
Entries 87
Mean −0.003369
Std Dev 0.2389

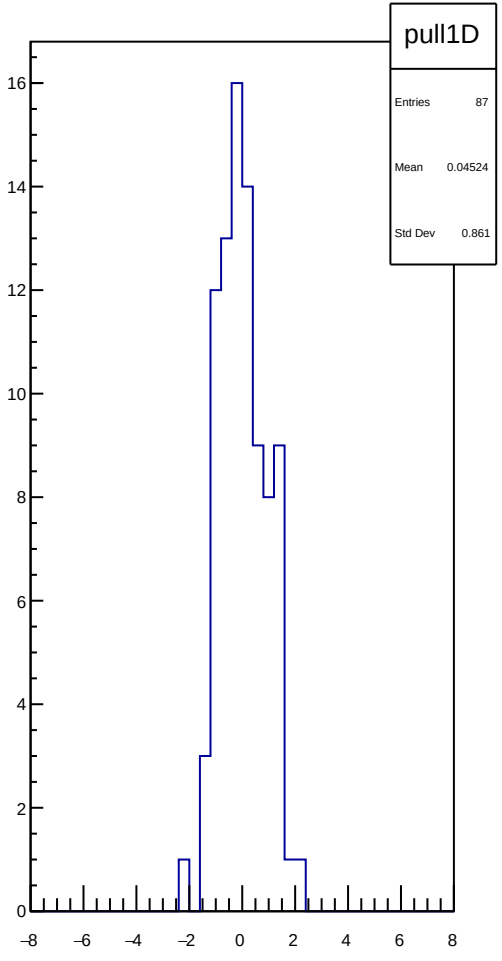

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 749.2 / 86
p0 −143.4 ± 0.3859
−130
−140
−150
−160
−170
−180
pull
Entries 87
Mean 99.92
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 87
Mean −1.035
Std Dev 2.746
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

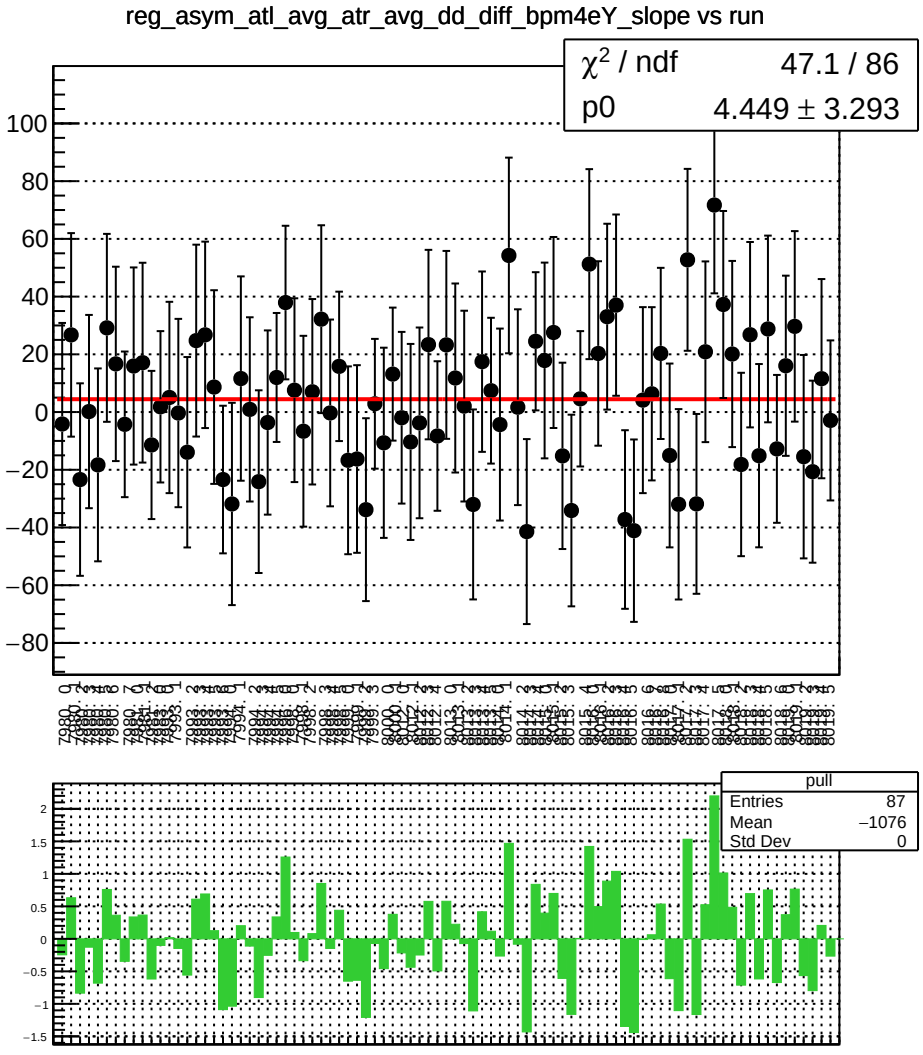

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 87.75 / 86
p0 44.14 ± 2.139
pull
Entries 87
Mean −95.99
Std Dev 0
pull1D
Entries 87
Mean −0.1157
Std Dev 0.9976

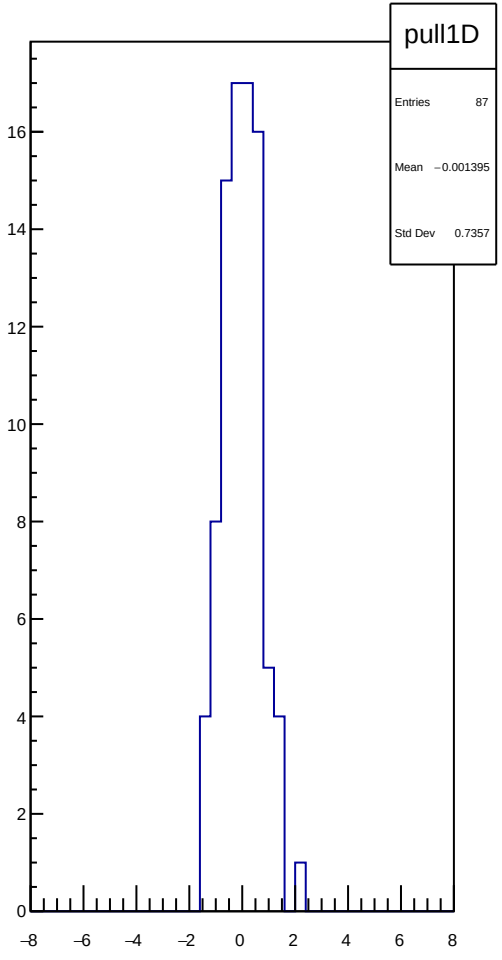

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.7 / 86
p0 −10.98 ± 3.014
pull
Entries 87
Mean 1040
Std Dev 0

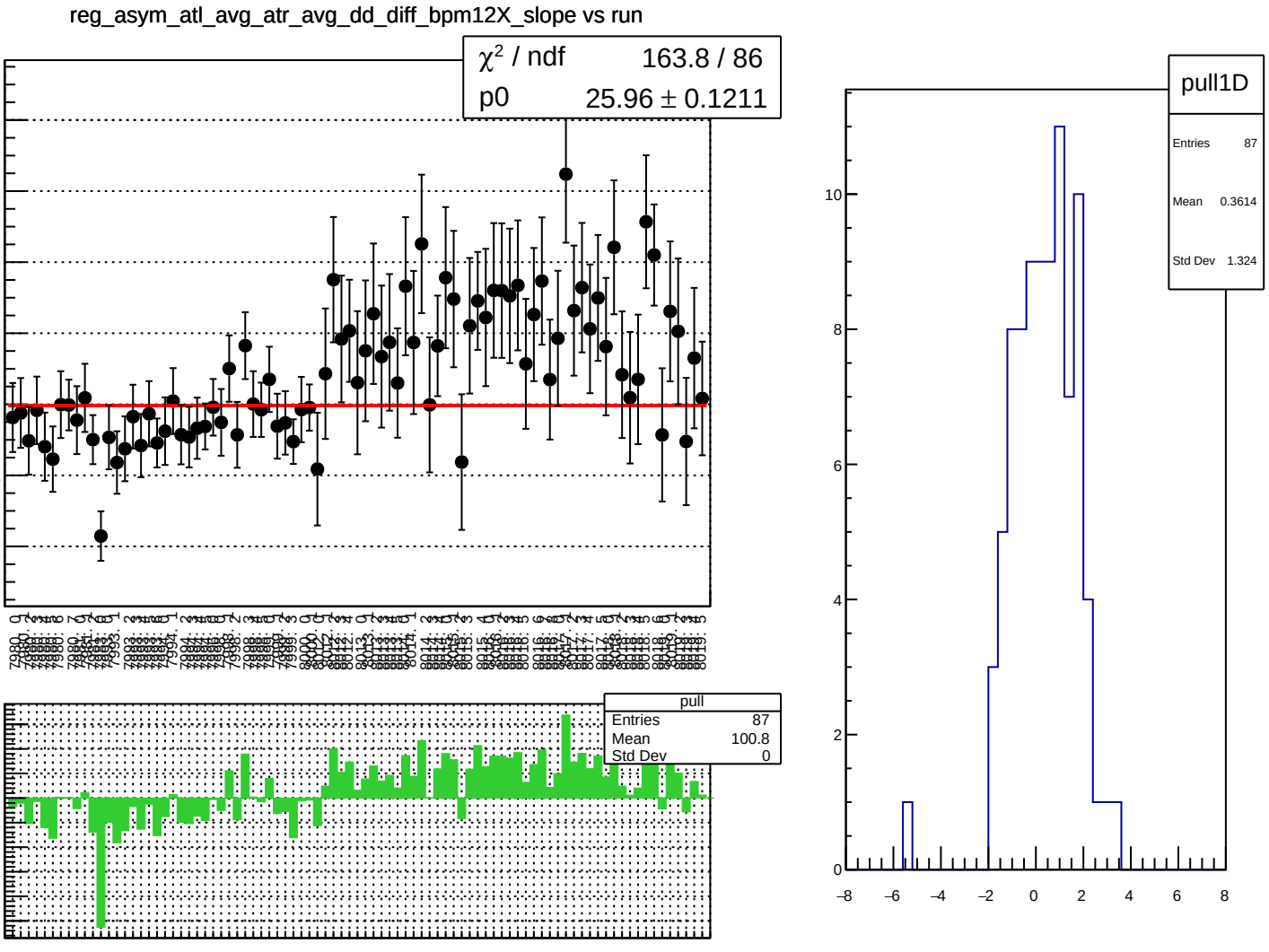

pull1D
Entries 87
Mean −0.002048
Std Dev 0.7405

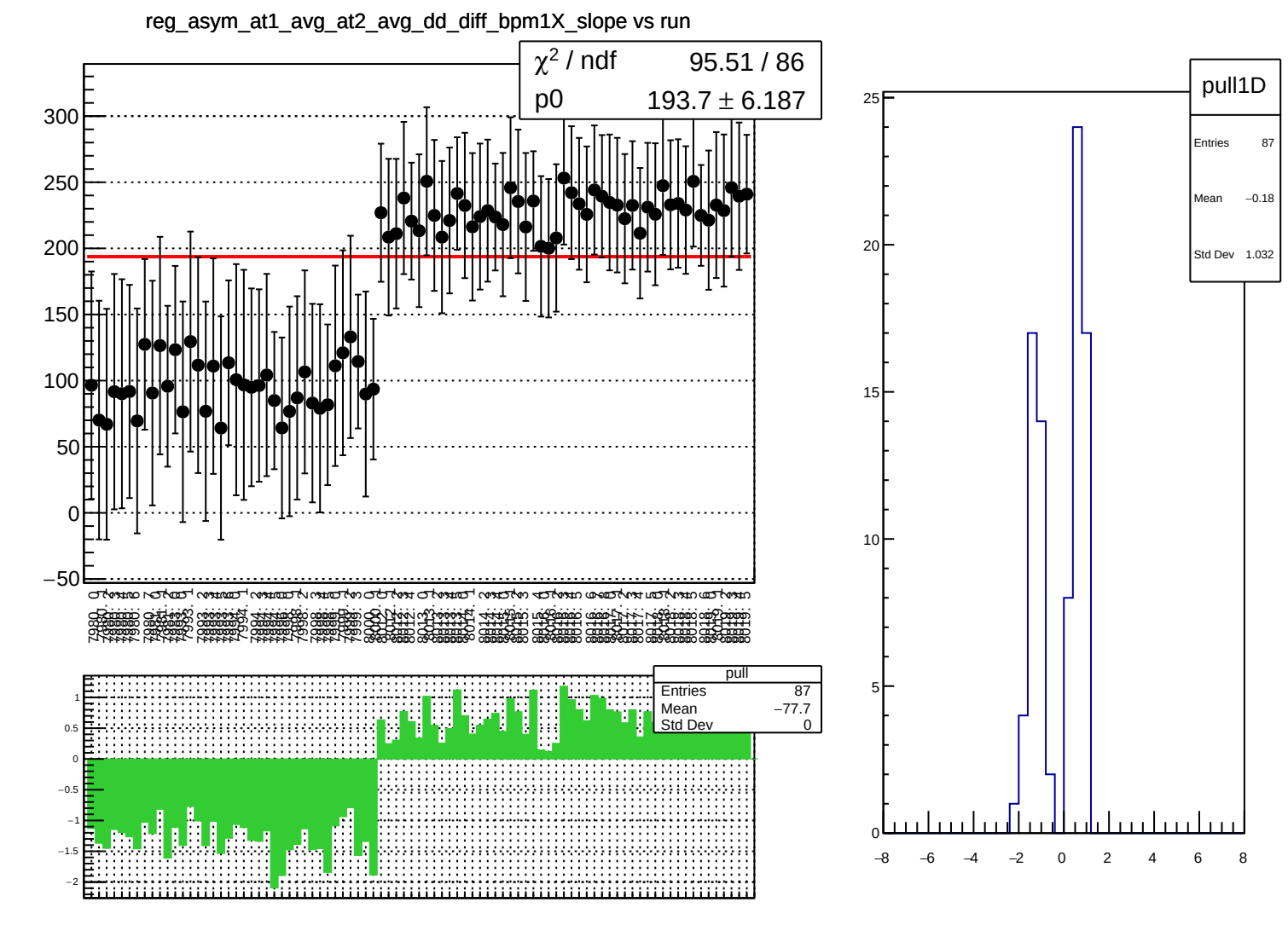

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.68 / 86
p0 −55.04 ± 2.168
pull
Entries 87
Mean −201
Std Dev 0

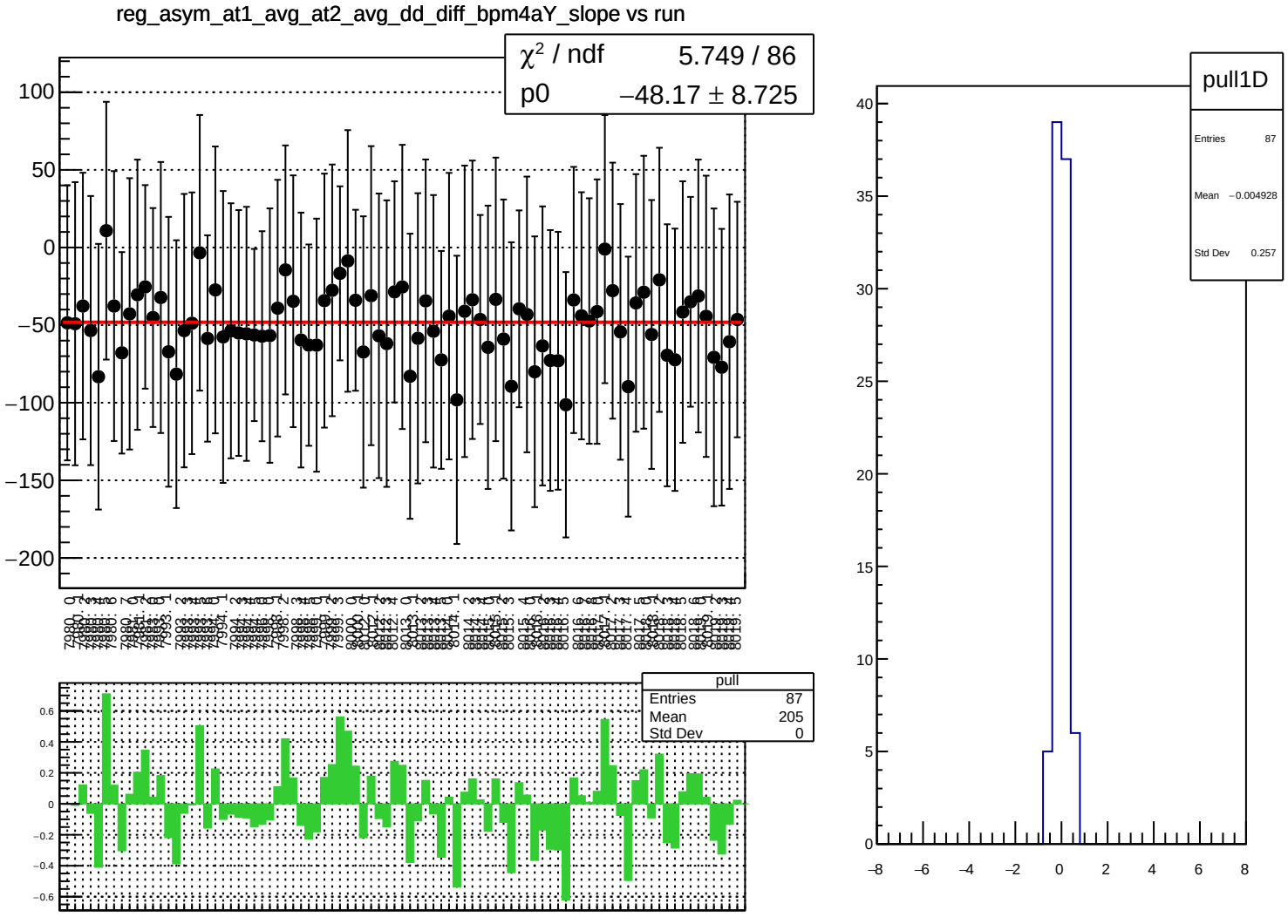

pull1D
Entries 87
Mean 0.04524
Std Dev 0.861

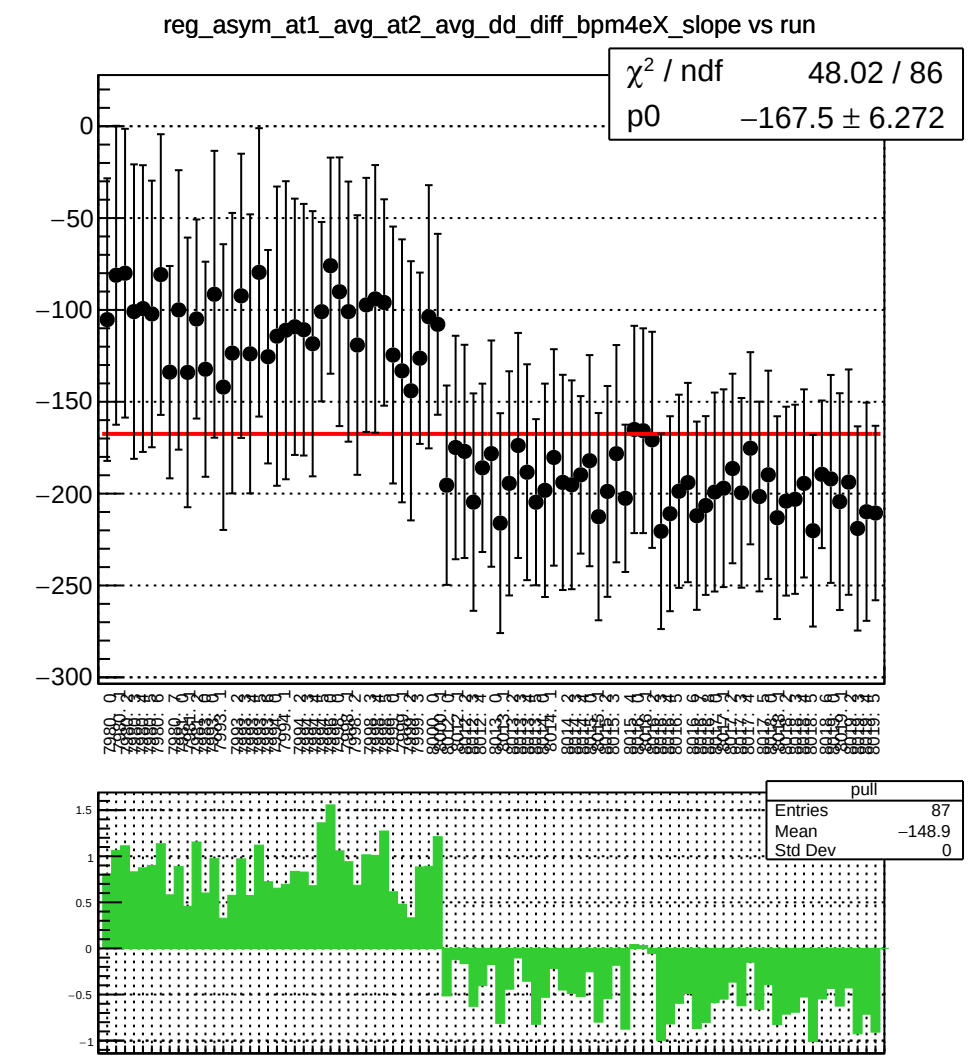

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.1 / 86
p0 4.449 ± 3.293
pull
Entries 87
Mean −1076
Std Dev 0

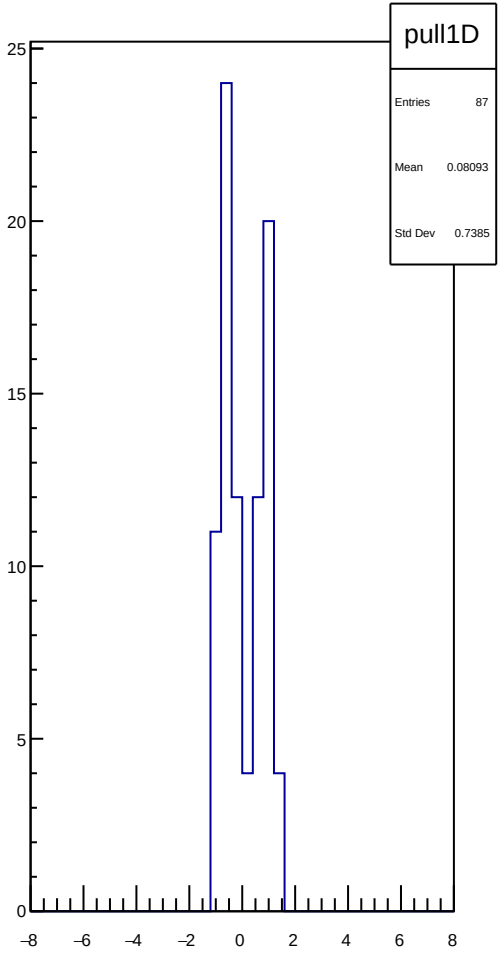

pull1D
Entries 87
Mean −0.001395
Std Dev 0.7357

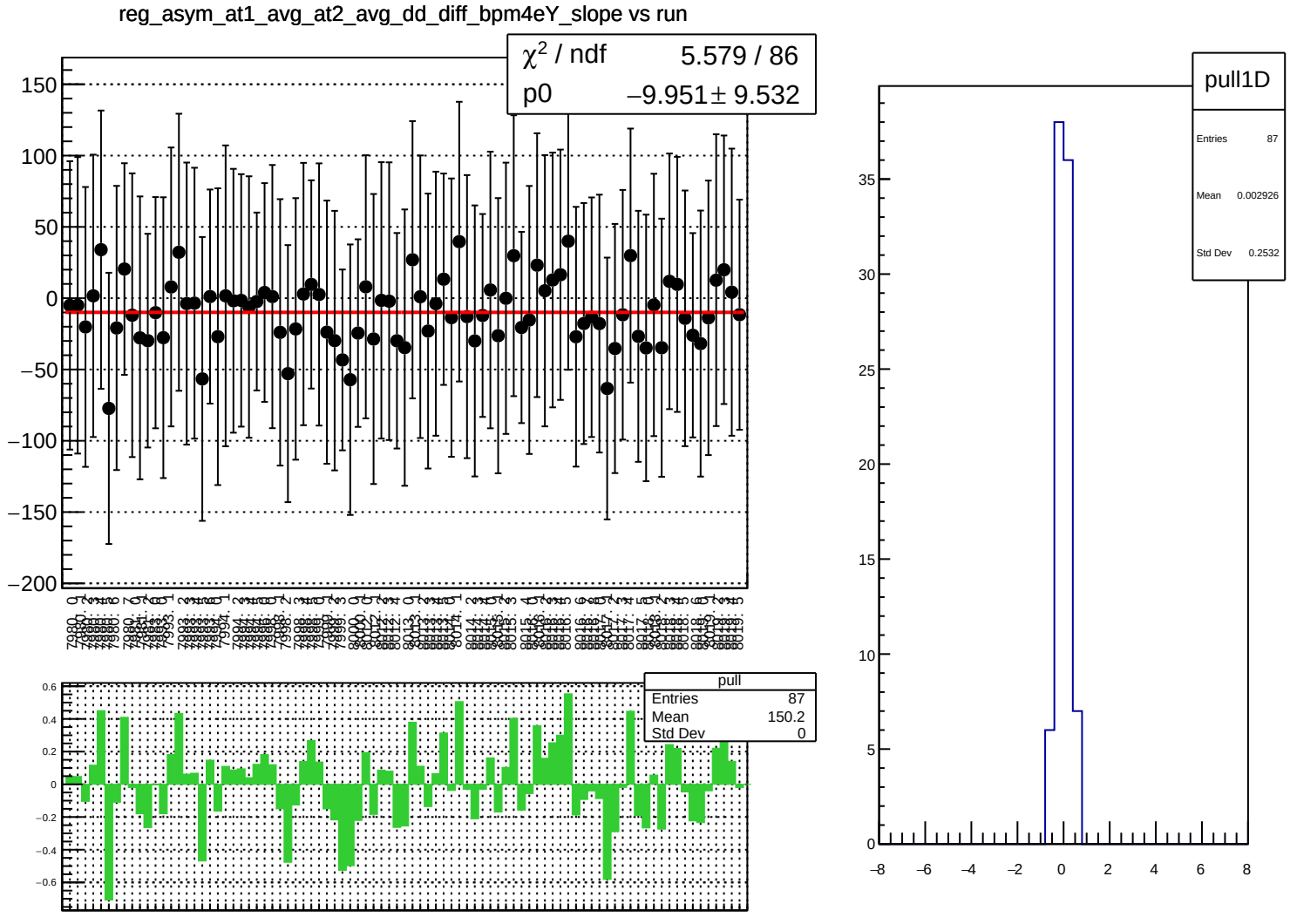

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 163.8 / 86
p0 25.96 ± 0.1211
pull
Entries 87
Mean 100.8
Std Dev 0
pull1D
Entries 87
Mean 0.3614
Std Dev 1.324

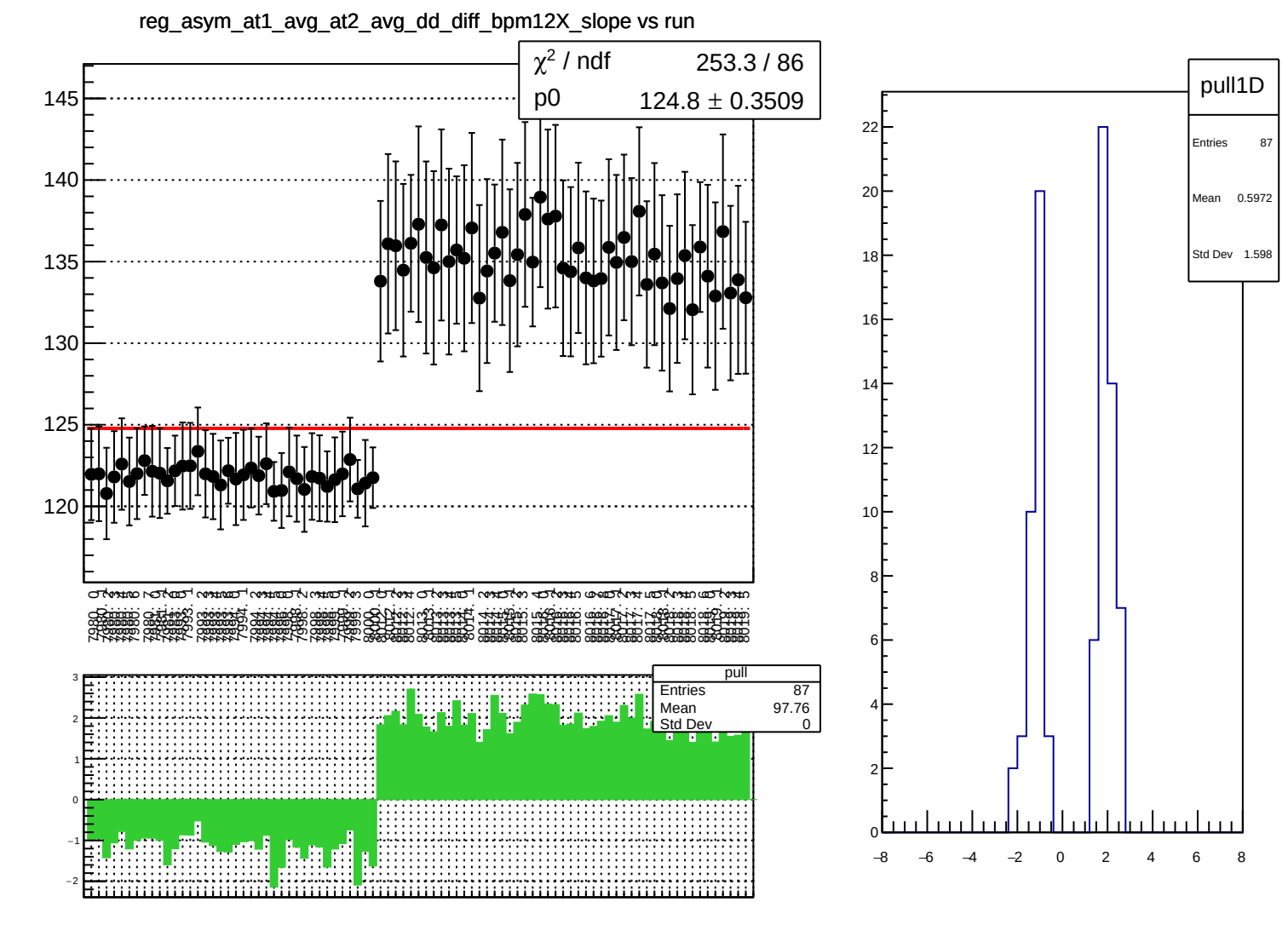

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 95.51 / 86
p0 193.7 ± 6.187
pull
Entries 87
Mean −77.7
Std Dev 0
pull1D
Entries 87
Mean −0.18
Std Dev 1.032

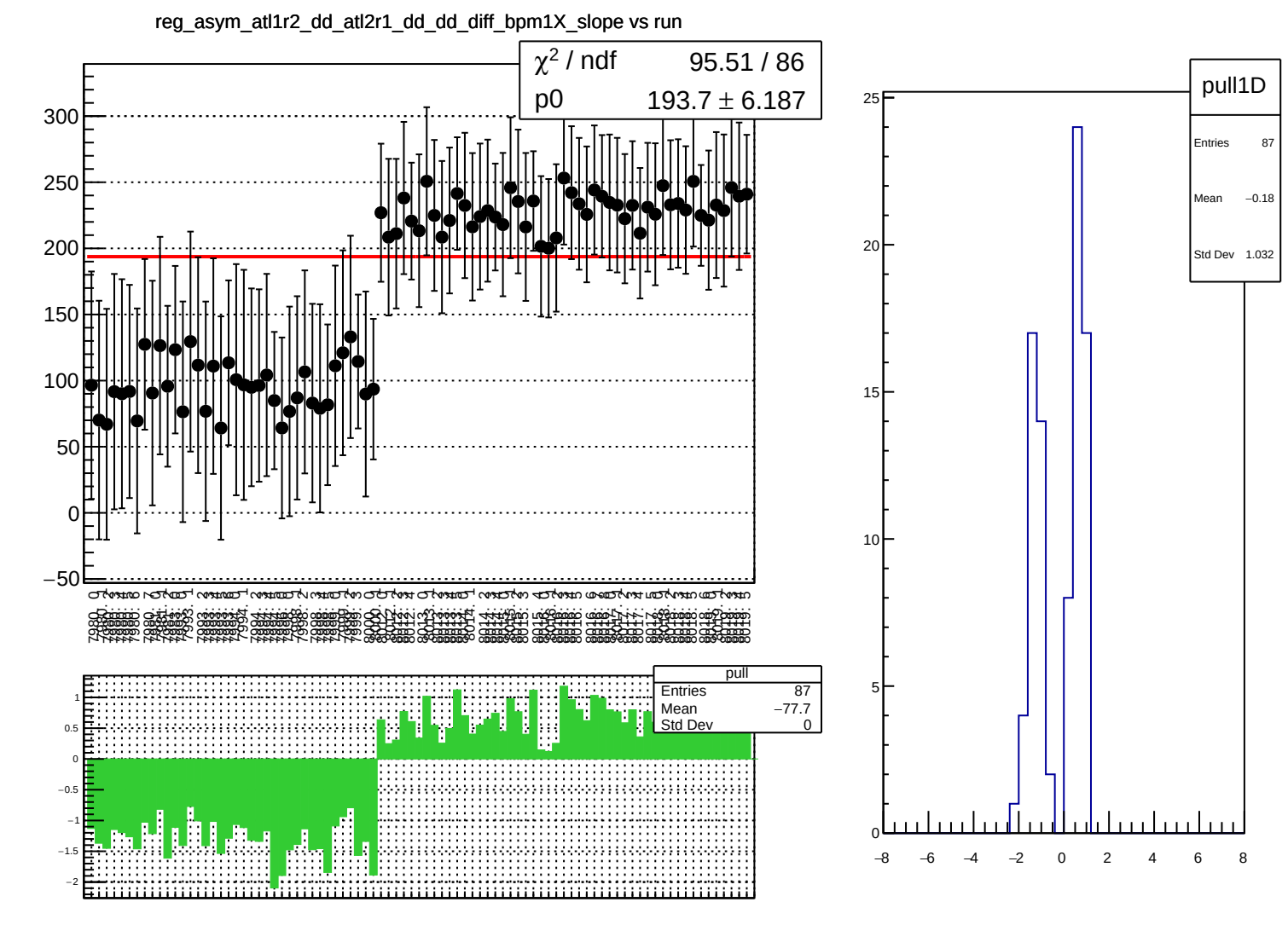

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.749 / 86
p0 −48.17 ± 8.725
pull
Entries 87
Mean 205
Std Dev 0
pull1D
Entries 87
Mean −0.004928
Std Dev 0.257

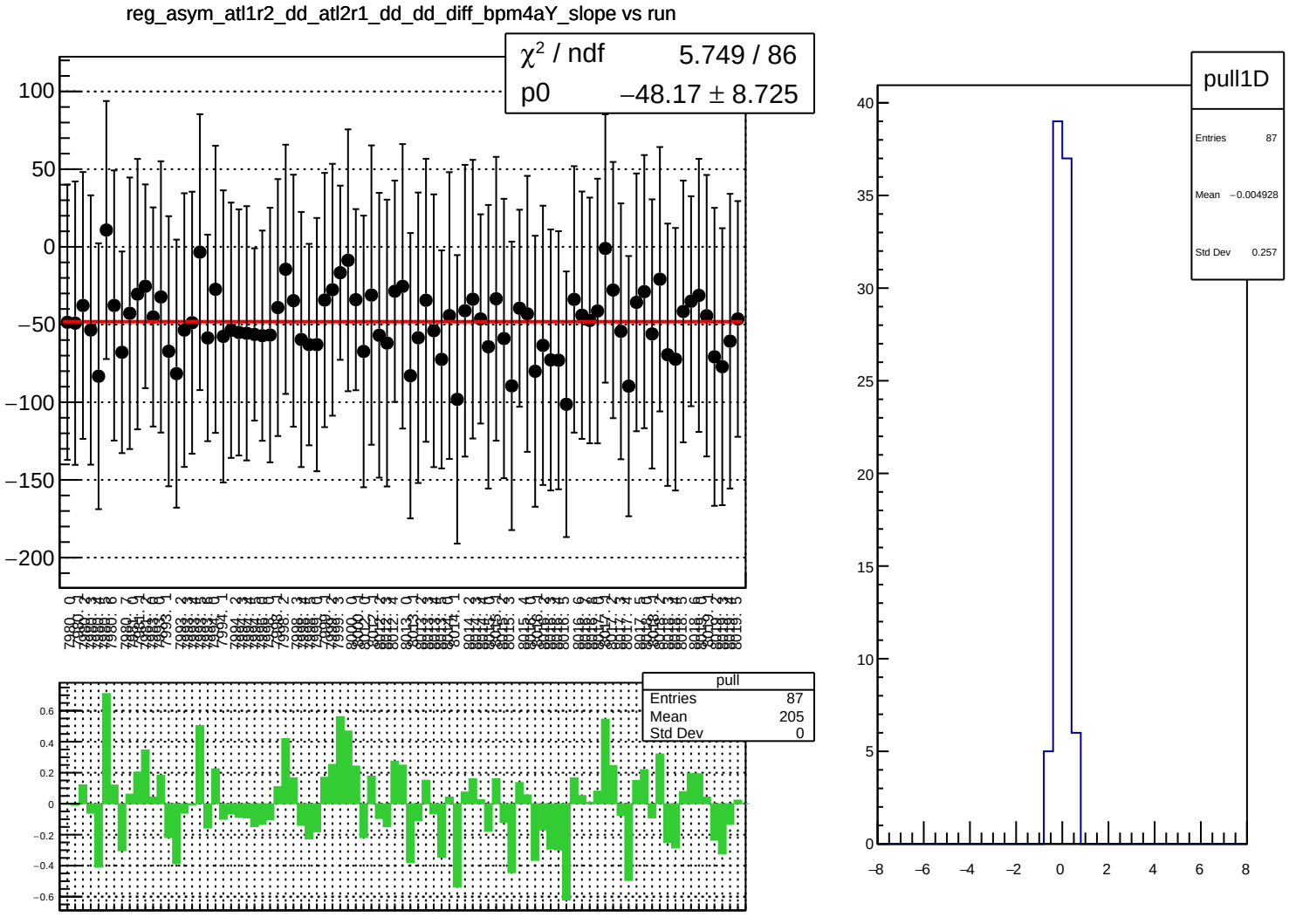

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.02 / 86
p0 −167.5 ± 6.272
pull
Entries 87
Mean −148.9
Std Dev 0

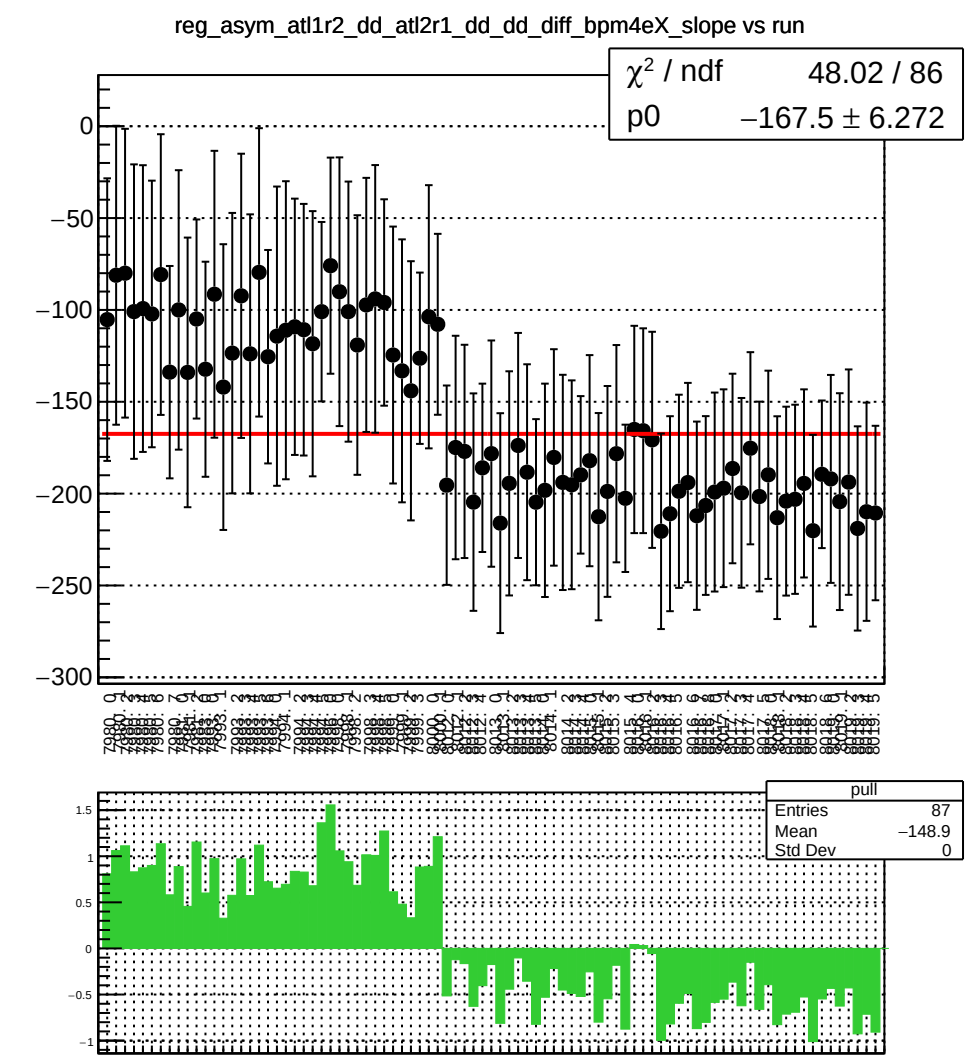

pull1D
Entries 87
Mean 0.08093
Std Dev 0.7385

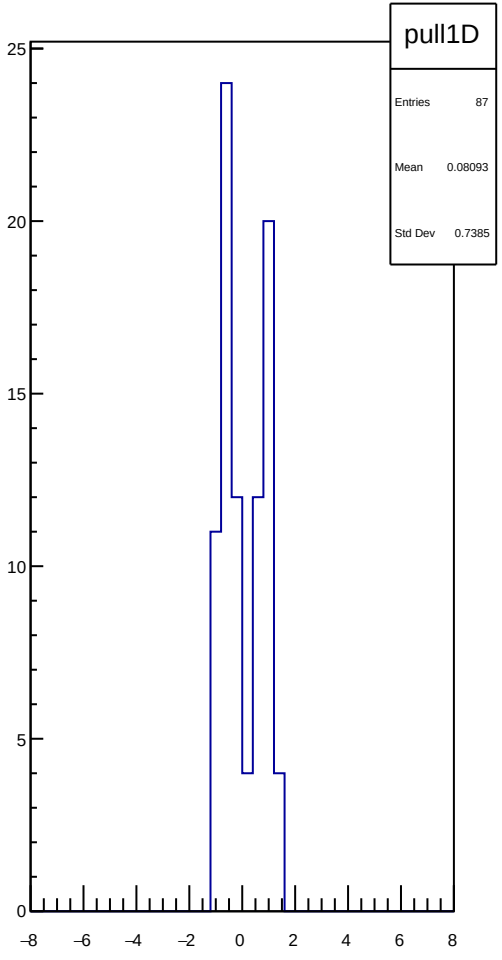

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.579 / 86
p0 −9.951 ± 9.532
pull
Entries 87
Mean 150.2
Std Dev 0
pull1D
Entries 87
Mean 0.002926
Std Dev 0.2532

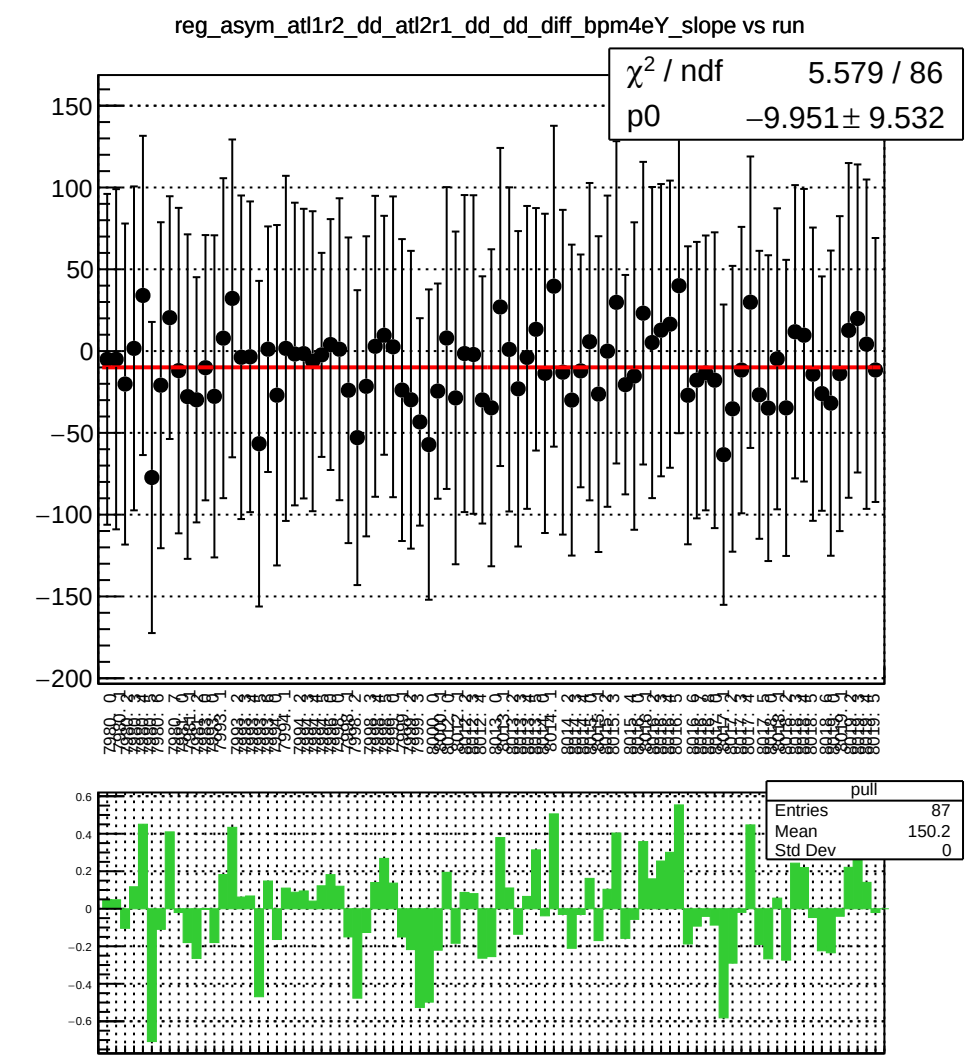

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 253.3 / 86
p0 124.8 ± 0.3509
145
140
135
130
125
120
pull
Entries 87
Mean 97.76
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.5972
Std Dev 1.598
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

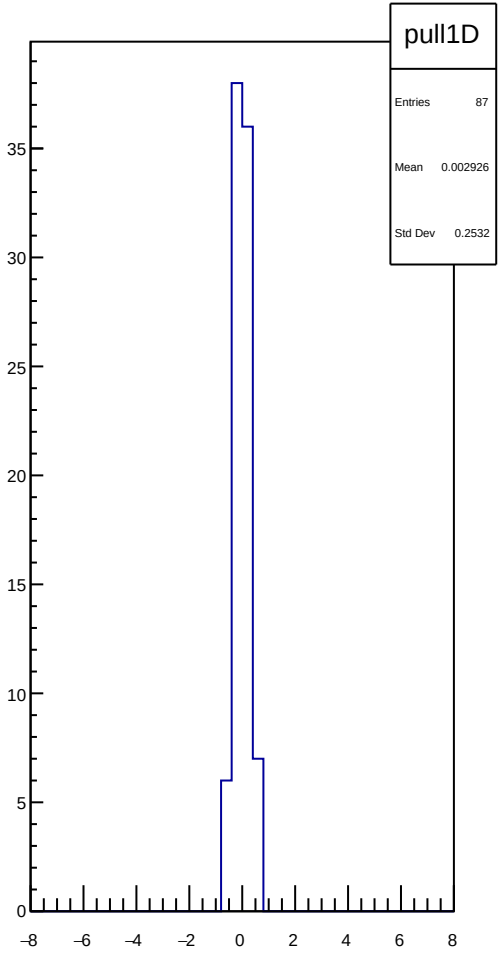

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 95.51 / 86
p0 193.7 ± 6.187
pull
Entries 87
Mean −77.7
Std Dev 0
pull1D
Entries 87
Mean −0.18
Std Dev 1.032

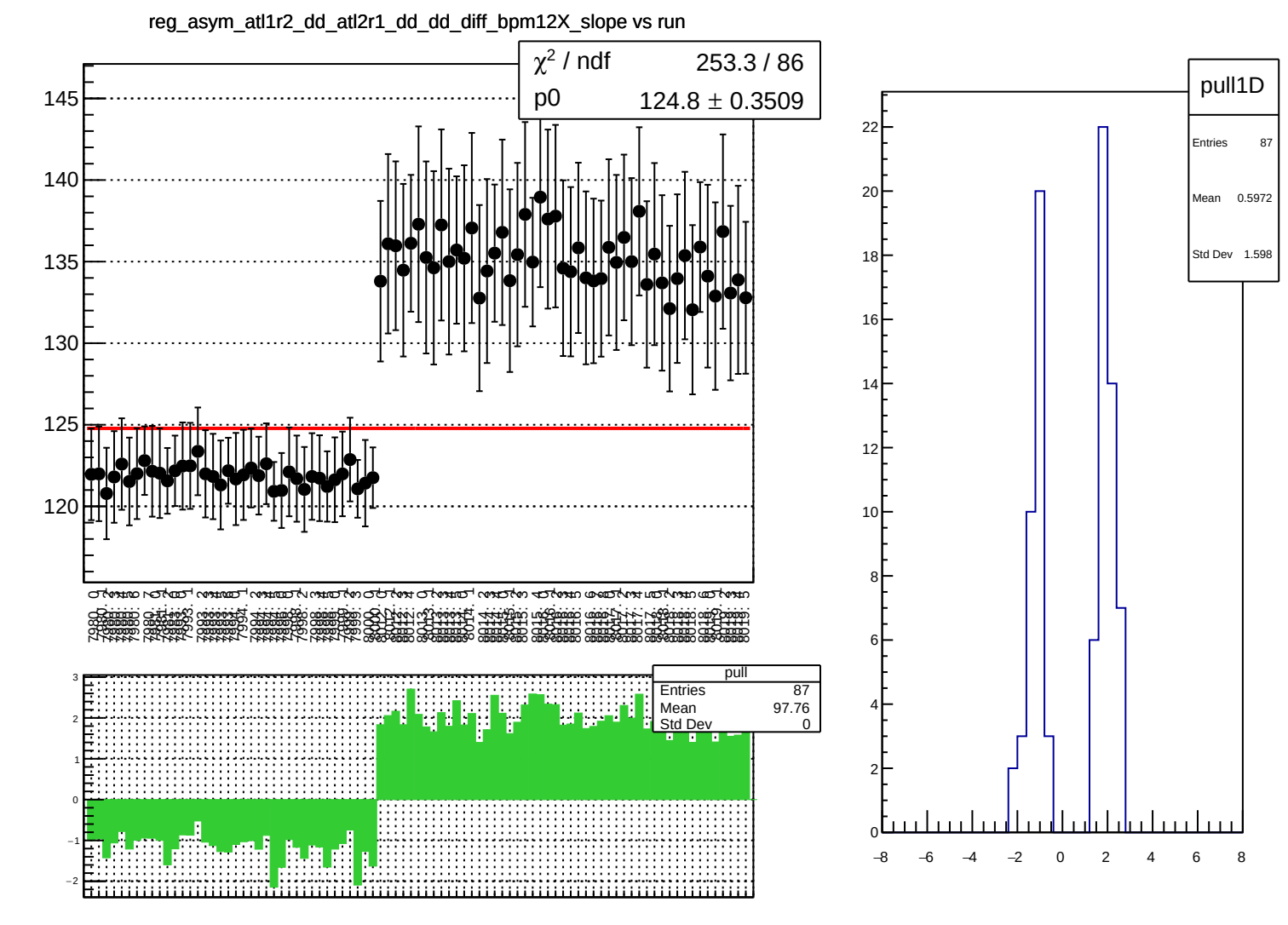

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.749 / 86
p0 −48.17 ± 8.725
pull
Entries 87
Mean 205
Std Dev 0
pull1D
Entries 87
Mean −0.004928
Std Dev 0.257

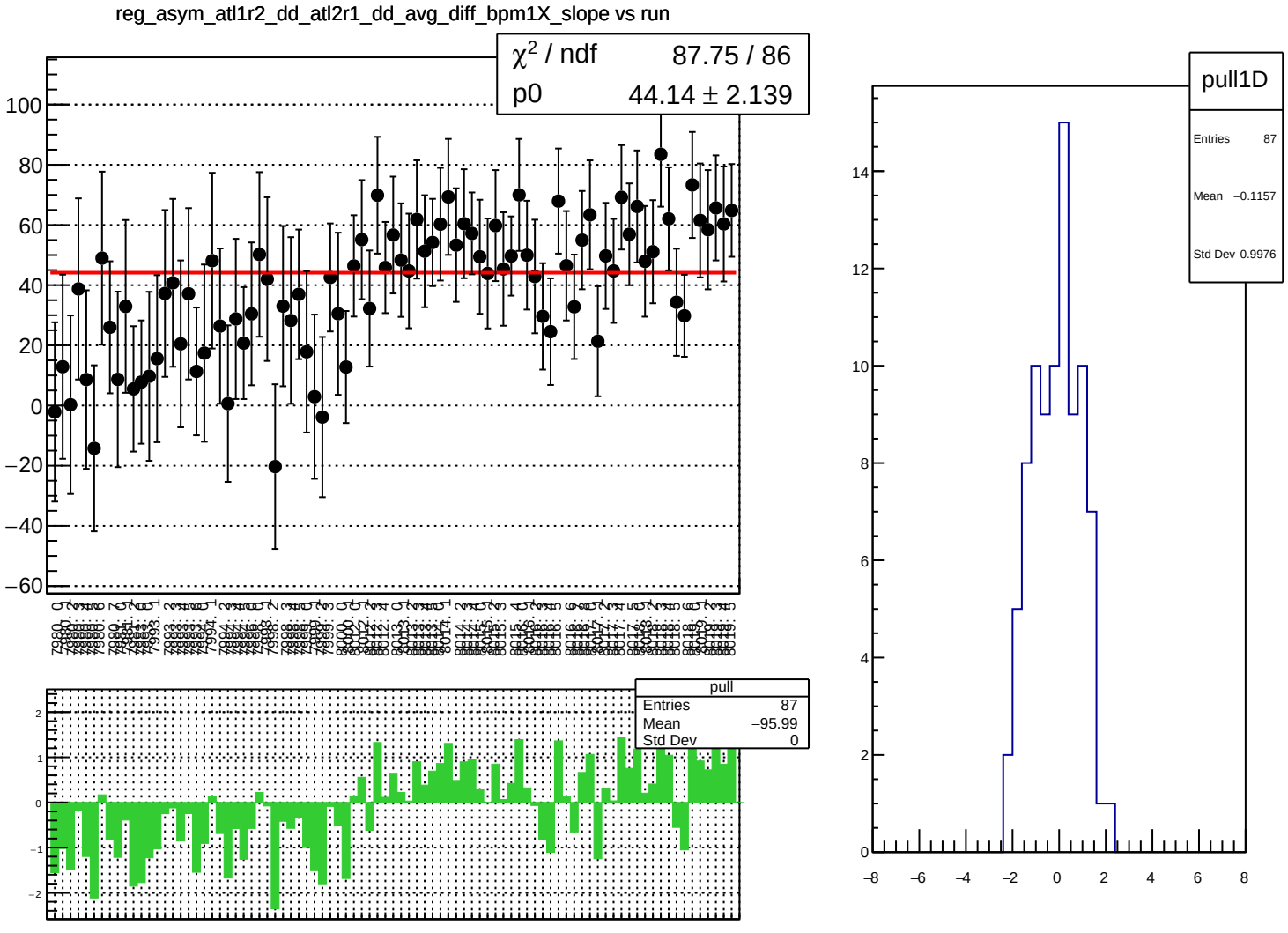

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.02 / 86
p0 −167.5 ± 6.272
pull
Entries 87
Mean −148.9
Std Dev 0

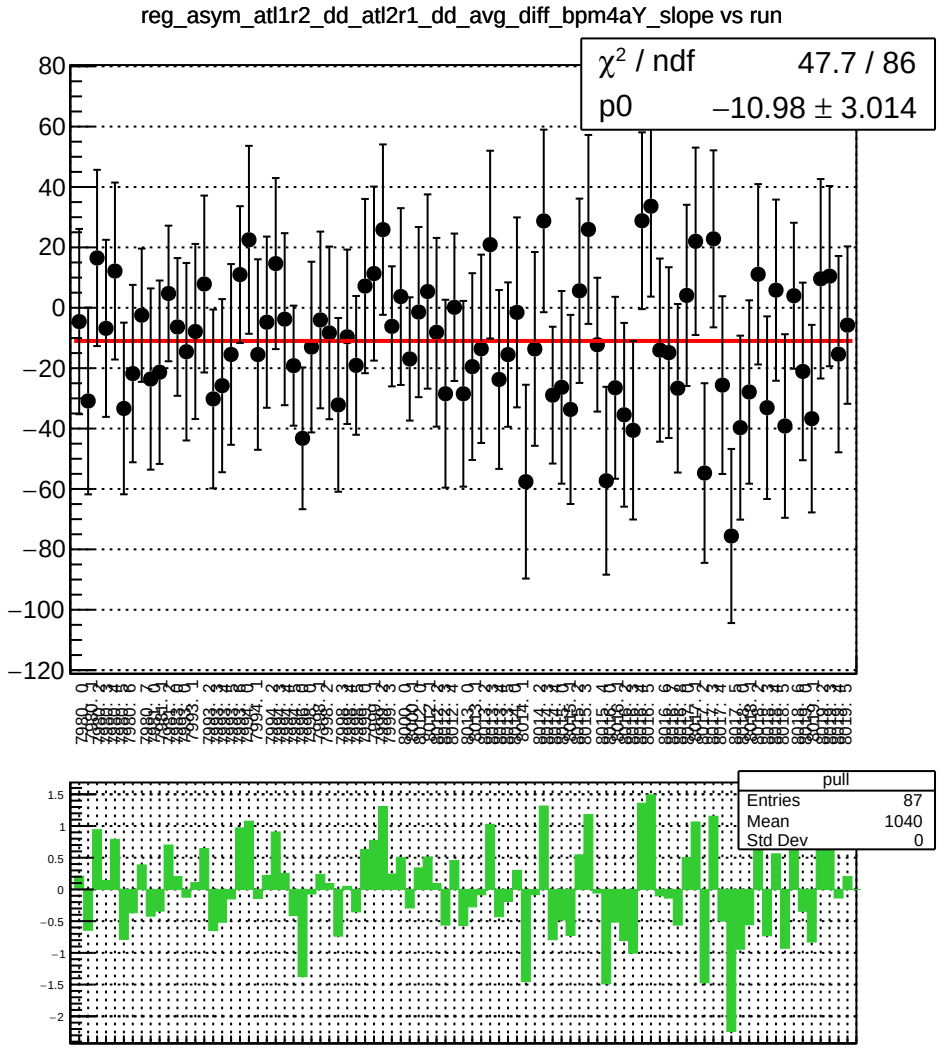

pull1D
Entries 87
Mean 0.08093
Std Dev 0.7385

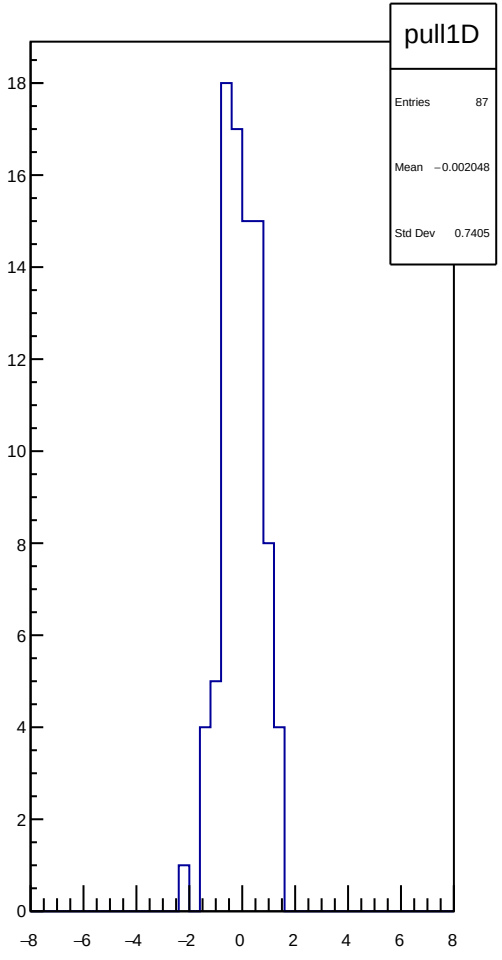

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.579 / 86
p0 −9.951 ± 9.532
pull
Entries 87
Mean 150.2
Std Dev 0

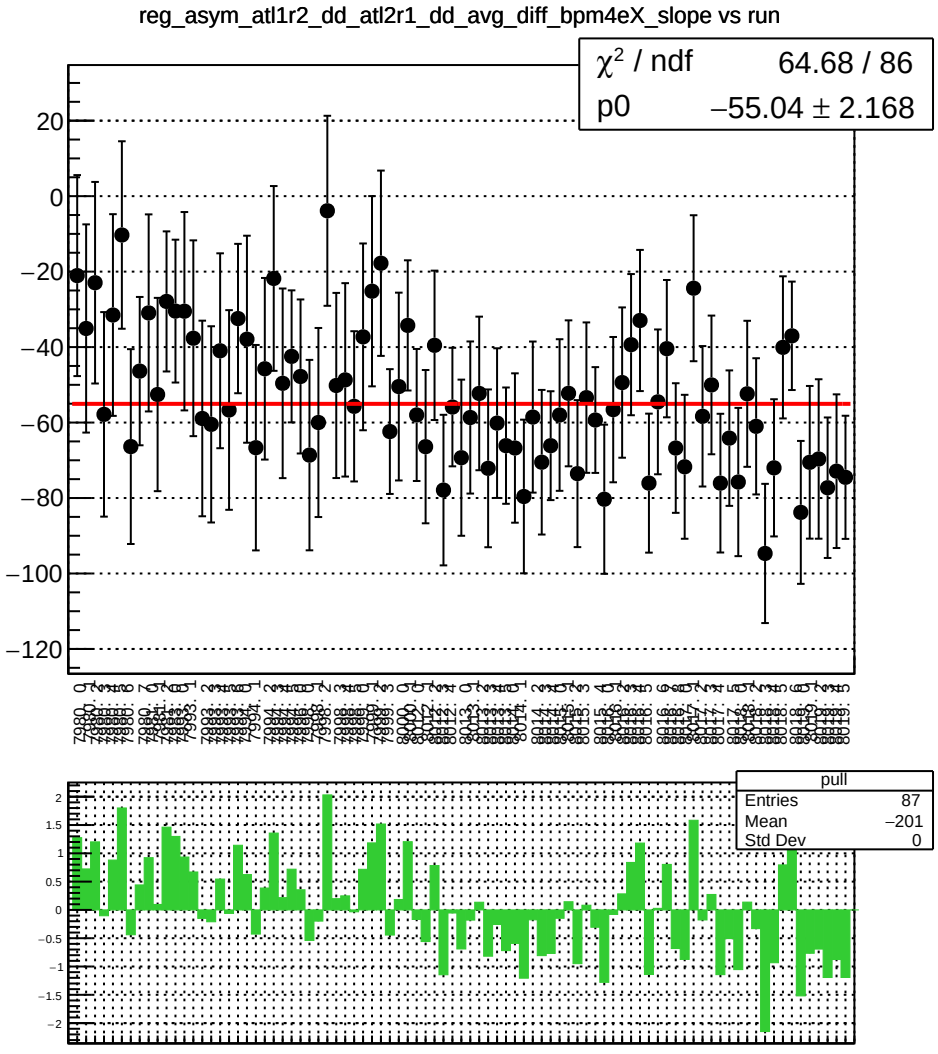

pull1D
Entries 87
Mean 0.002926
Std Dev 0.2532

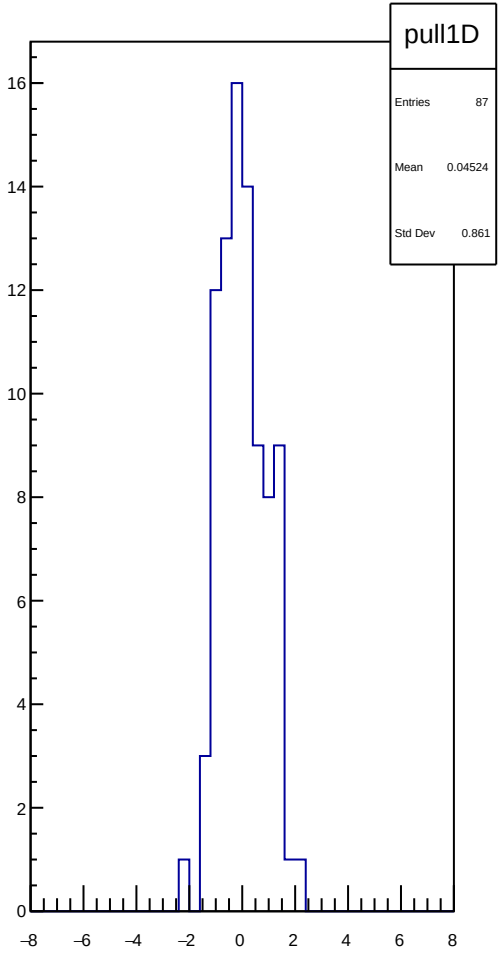

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 253.3 / 86
p0 124.8 ± 0.3509
145
140
135
130
125
120
pull
Entries 87
Mean 97.76
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.5972
Std Dev 1.598
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

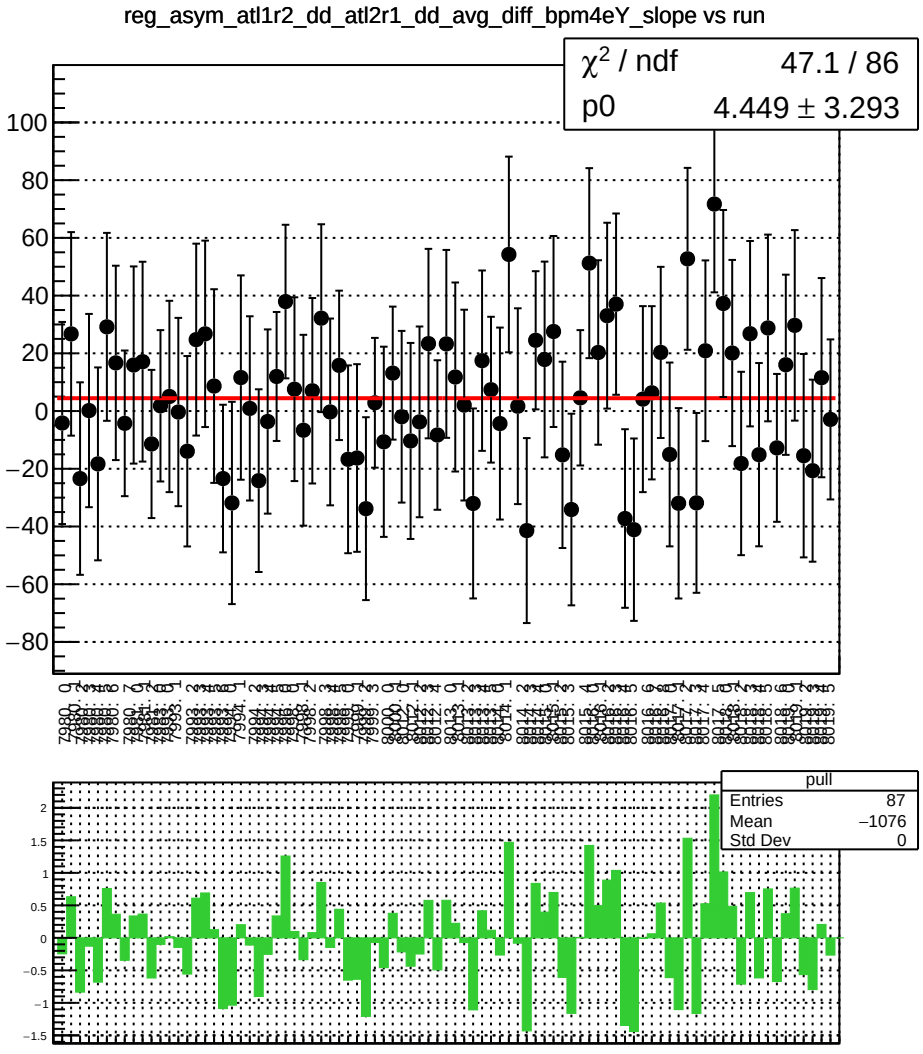

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 87.75 / 86
p0 44.14 ± 2.139
pull
Entries 87
Mean −95.99
Std Dev 0
pull1D
Entries 87
Mean −0.1157
Std Dev 0.9976

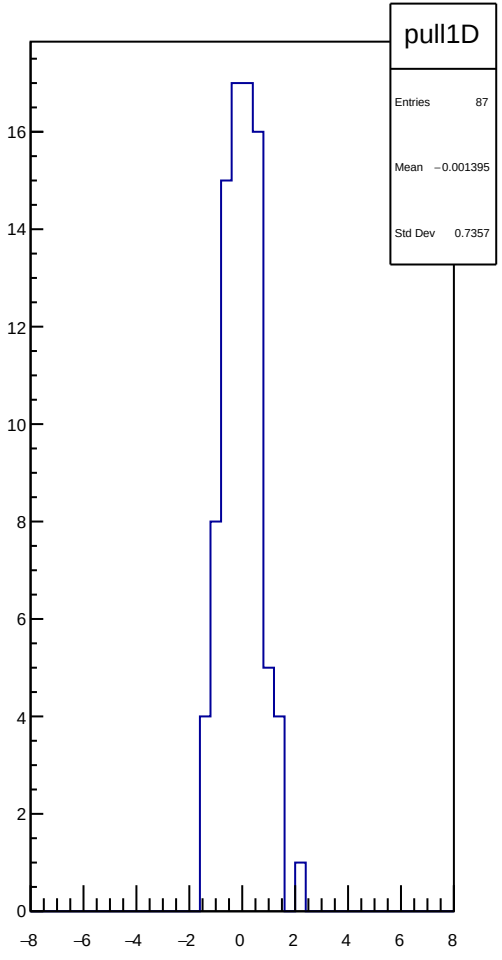

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.7 / 86
p0 −10.98 ± 3.014
pull
Entries 87
Mean 1040
Std Dev 0

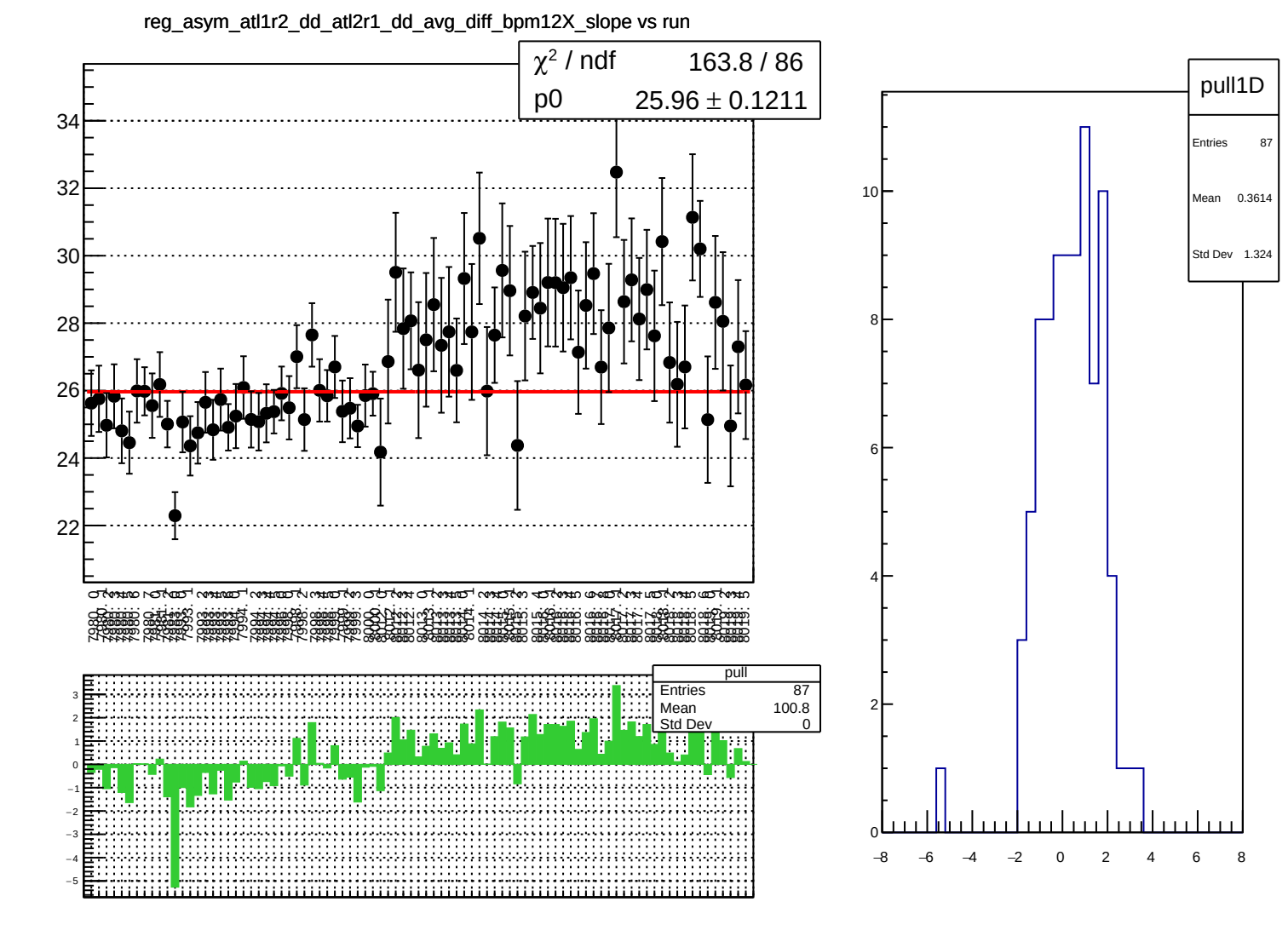

pull1D
Entries 87
Mean −0.002048
Std Dev 0.7405

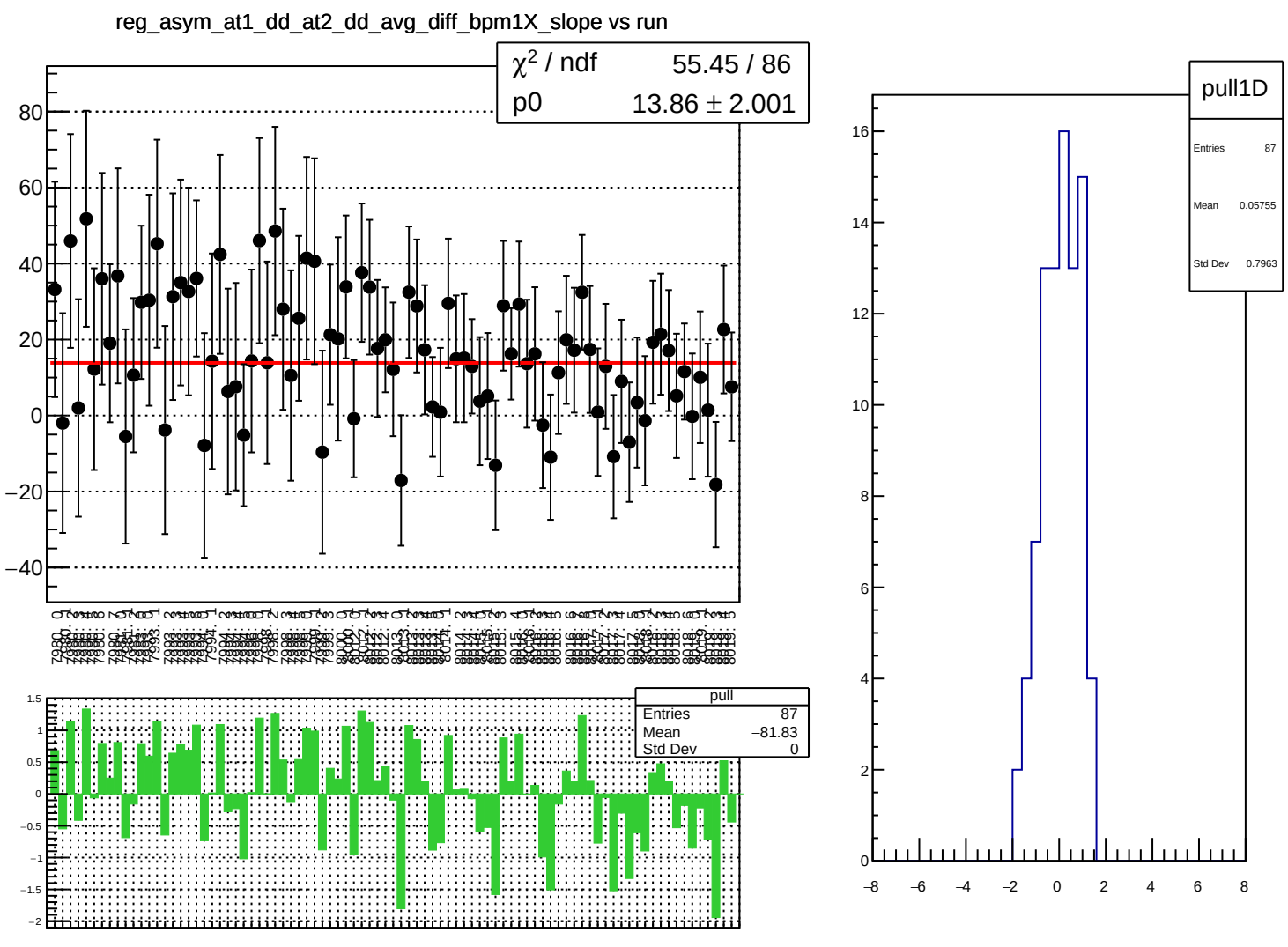

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.68 / 86
p0 −55.04 ± 2.168
pull
Entries 87
Mean −201
Std Dev 0

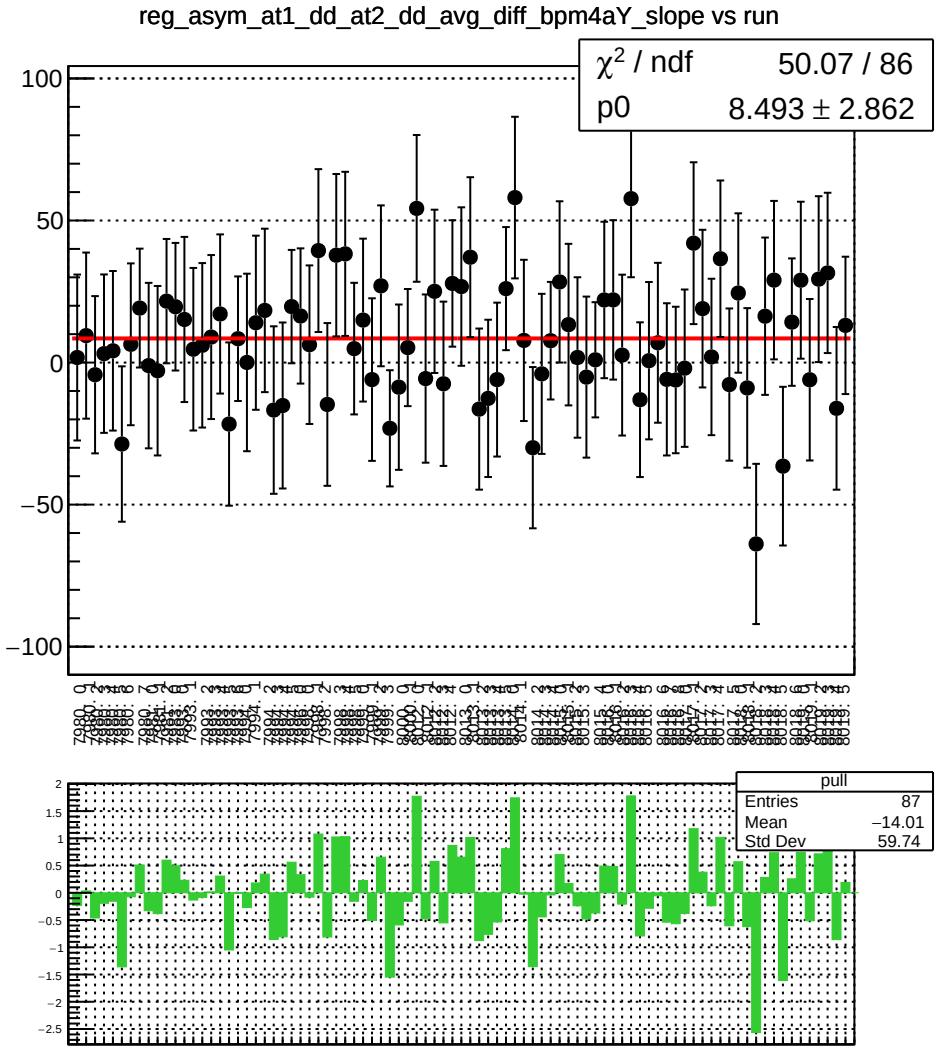

pull1D
Entries 87
Mean 0.04524
Std Dev 0.861

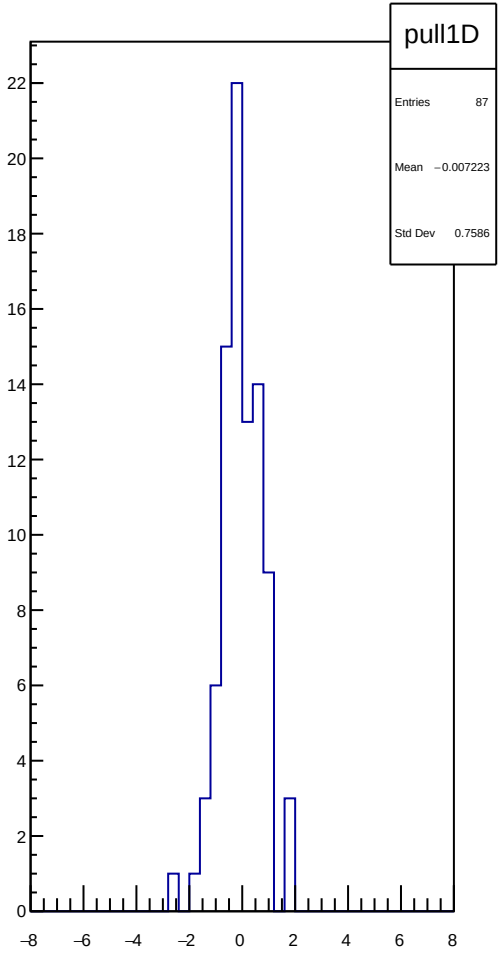

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.1 / 86
p0 4.449 ± 3.293
pull
Entries 87
Mean −1076
Std Dev 0

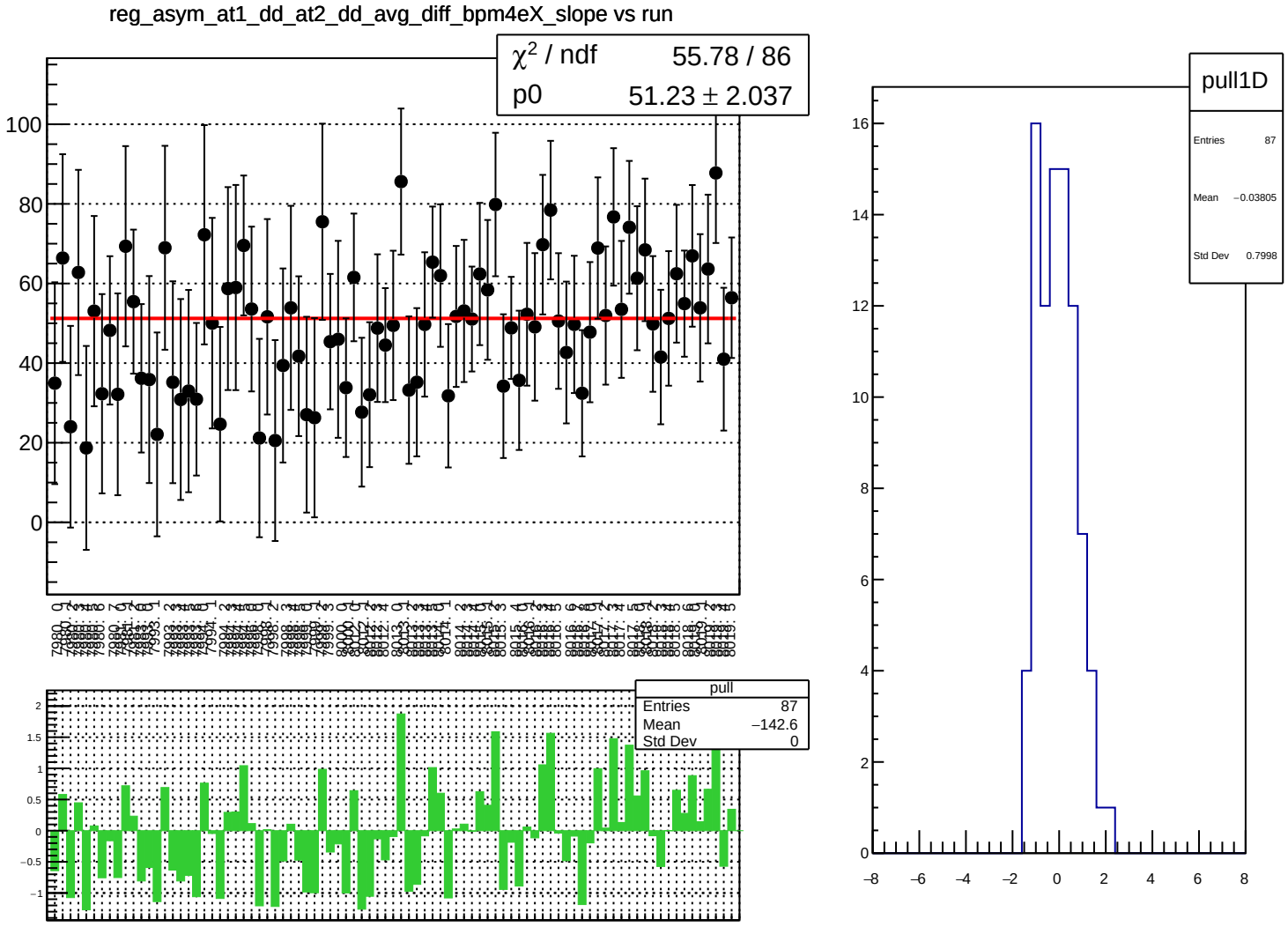

pull1D
Entries 87
Mean −0.001395
Std Dev 0.7357

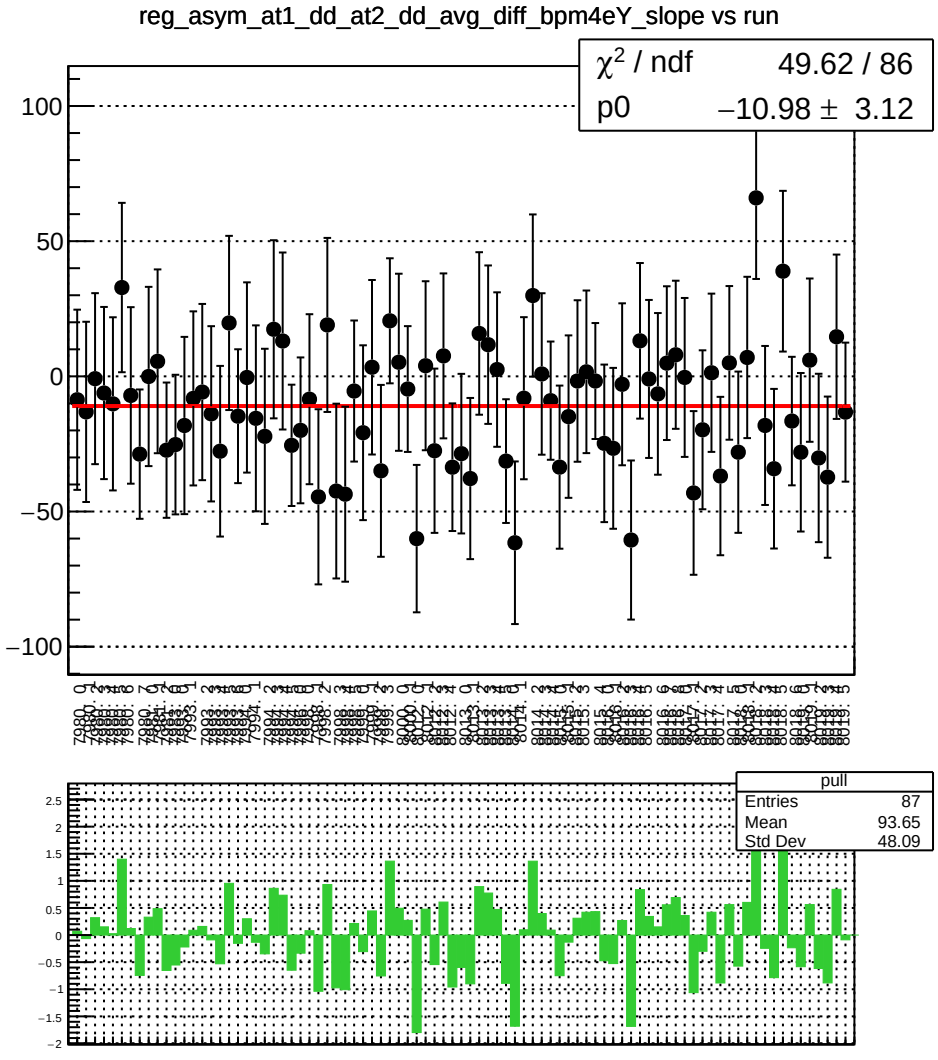

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 163.8 / 86
p0 25.96 ± 0.1211
pull
Entries 87
Mean 100.8
Std Dev 0
pull1D
Entries 87
Mean 0.3614
Std Dev 1.324

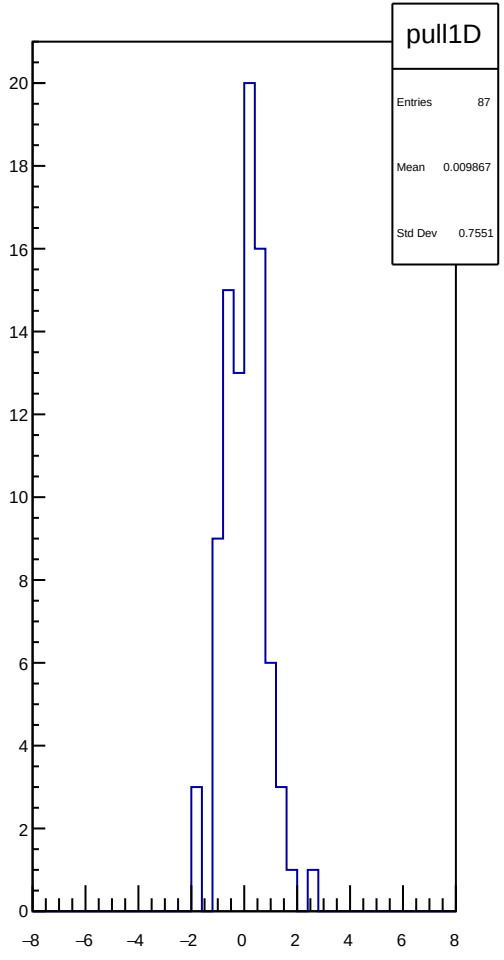

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 55.45 / 86
p0 13.86 ± 2.001
pull
Entries 87
Mean −81.83
Std Dev 0
pull1D
Entries 87
Mean 0.05755
Std Dev 0.7963

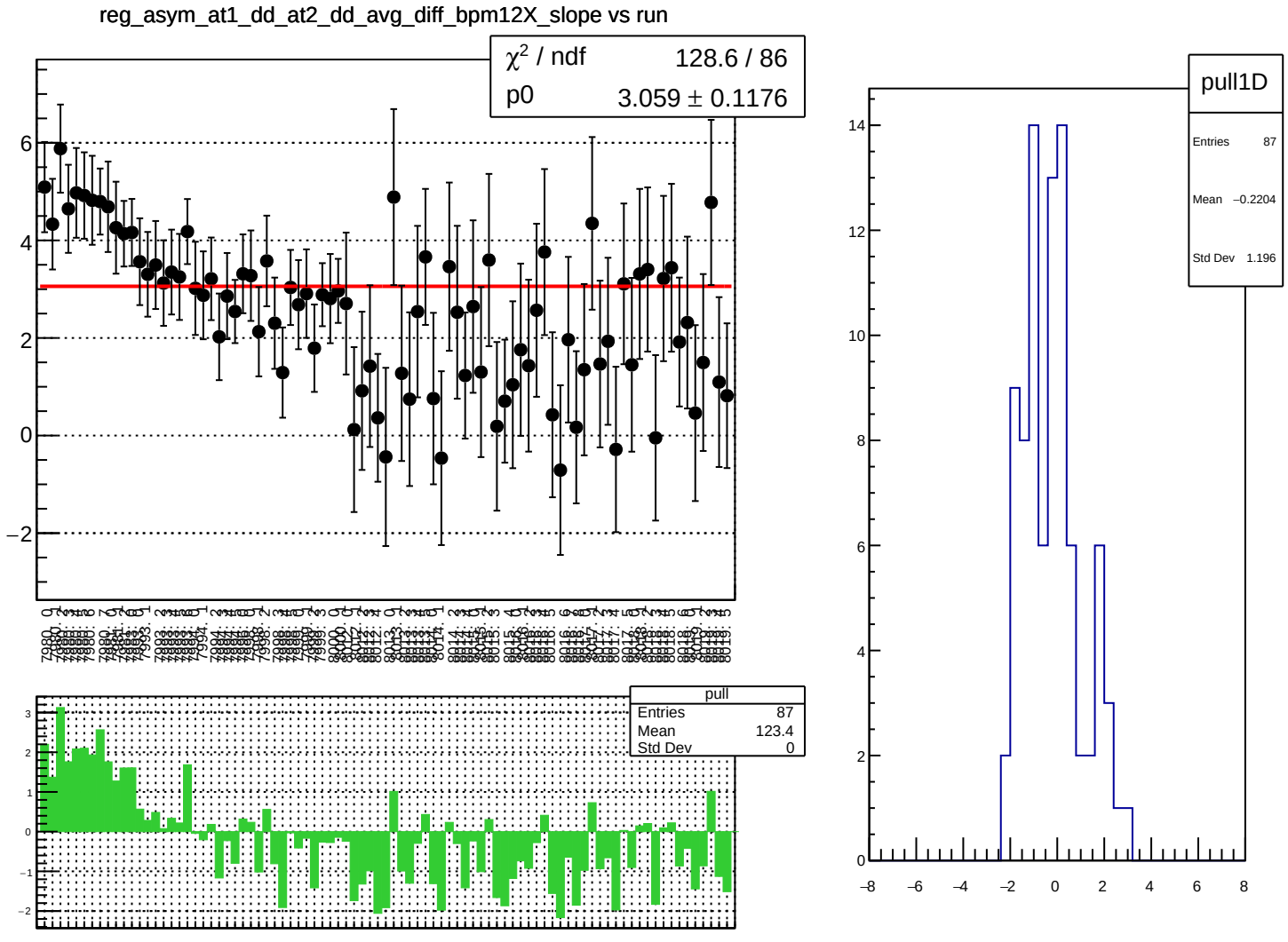

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 50.07 / 86
p0 8.493 ± 2.862
pull
Entries 87
Mean −14.01
Std Dev 59.74

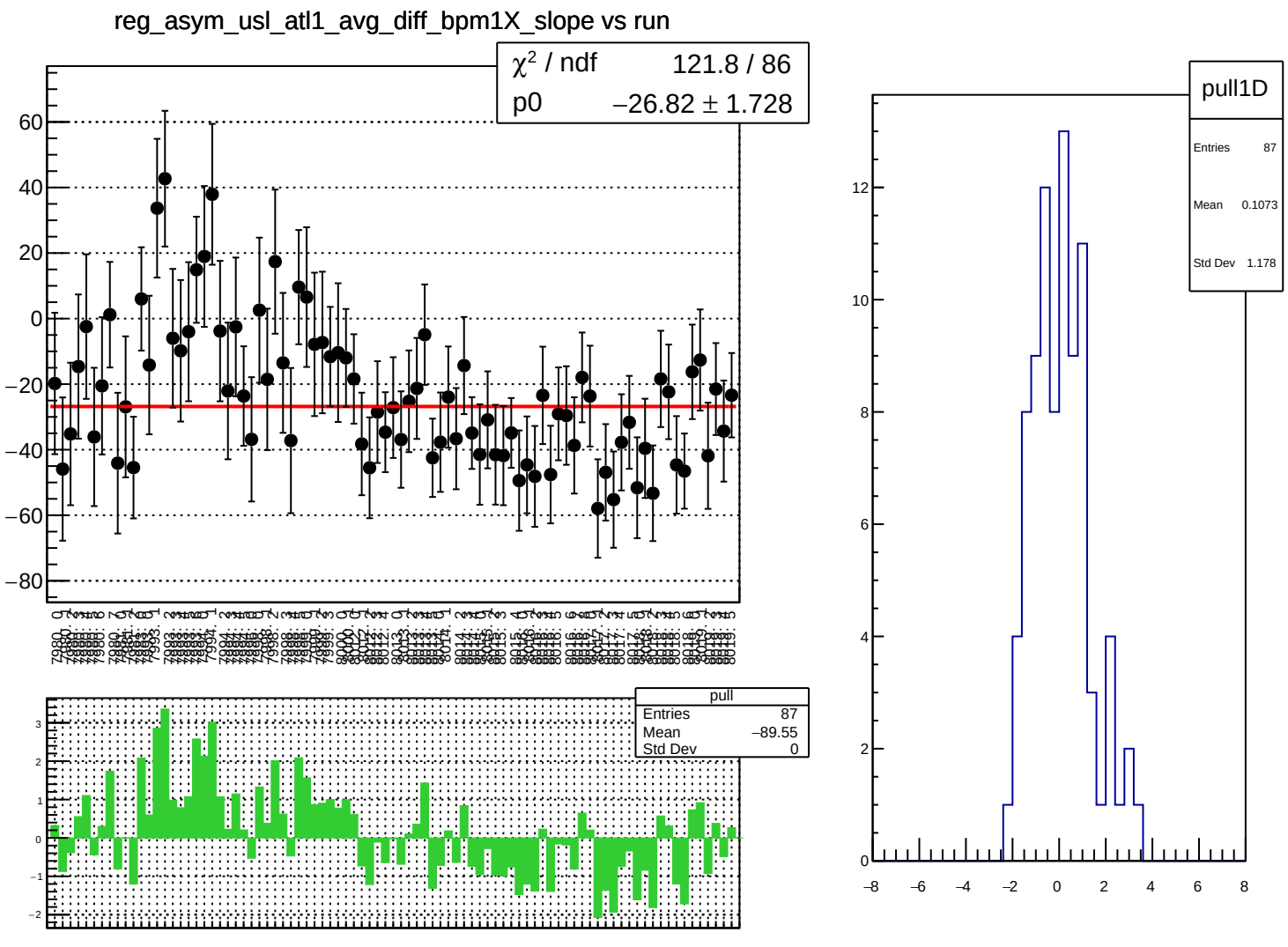

pull1D
Entries 87
Mean −0.007223
Std Dev 0.7586

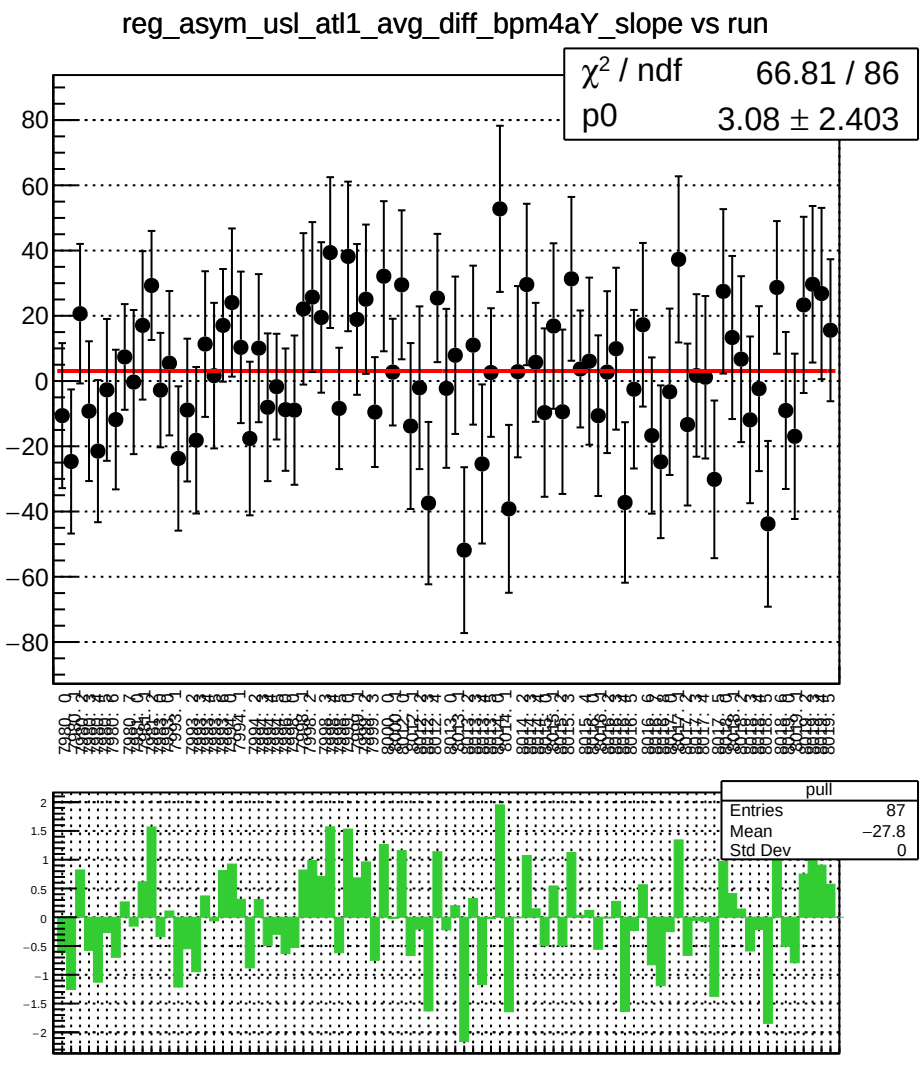

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.78 / 86
p0 51.23 ± 2.037
pull
Entries 87
Mean −142.6
Std Dev 0
pull1D
Entries 87
Mean −0.03805
Std Dev 0.7998

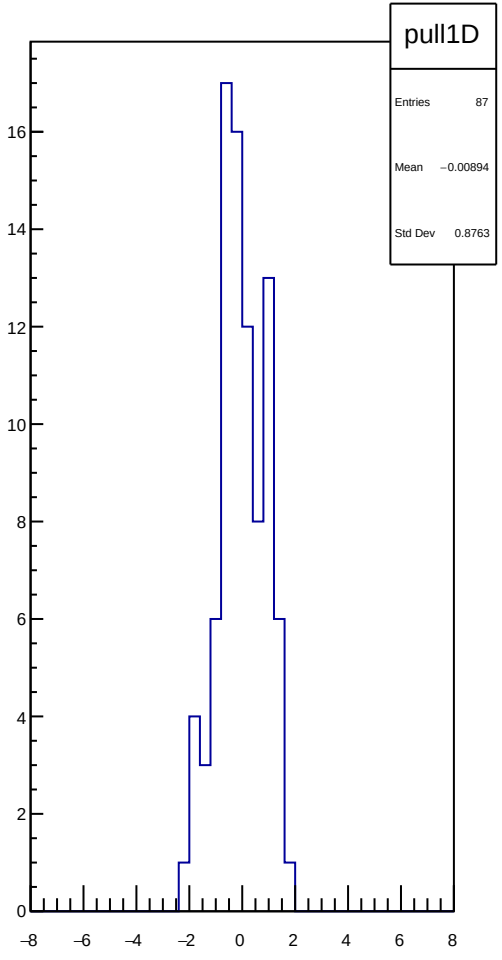

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.62 / 86
p0 −10.98 ± 3.12
pull
Entries 87
Mean 93.65
Std Dev 48.09

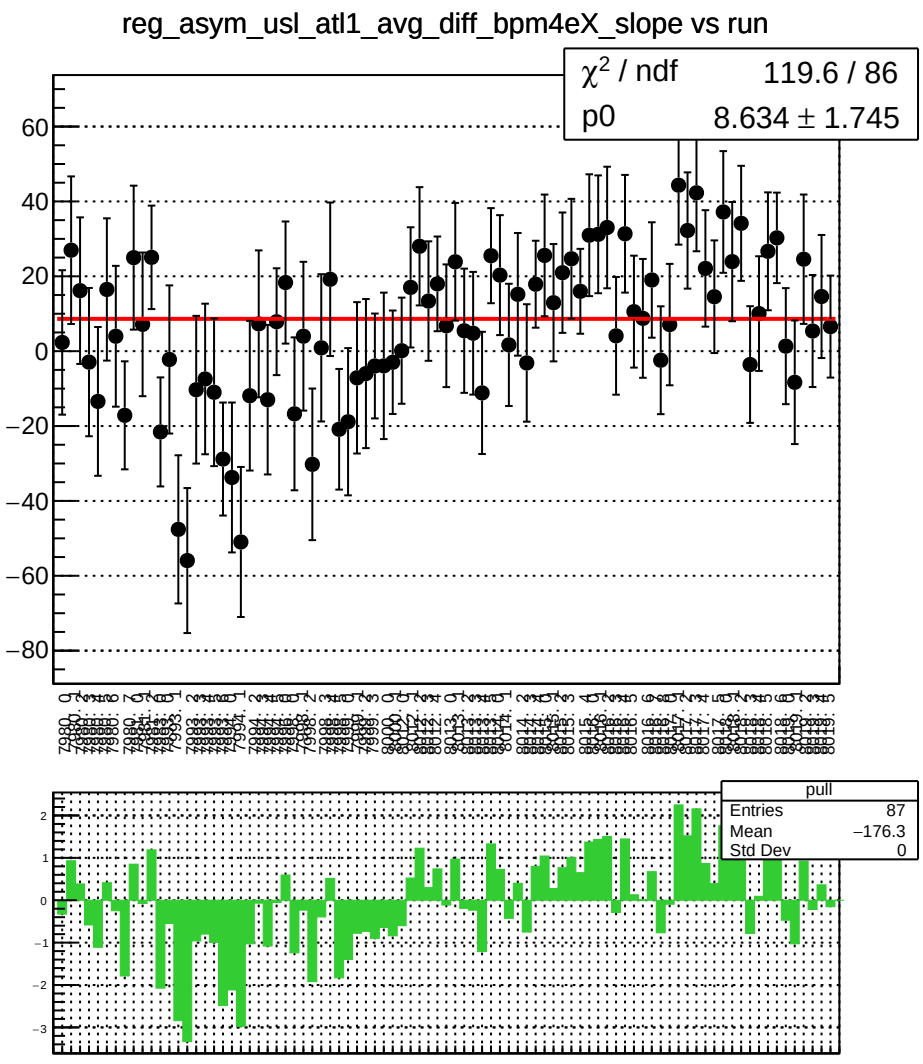

pull1D
Entries 87
Mean 0.009867
Std Dev 0.7551

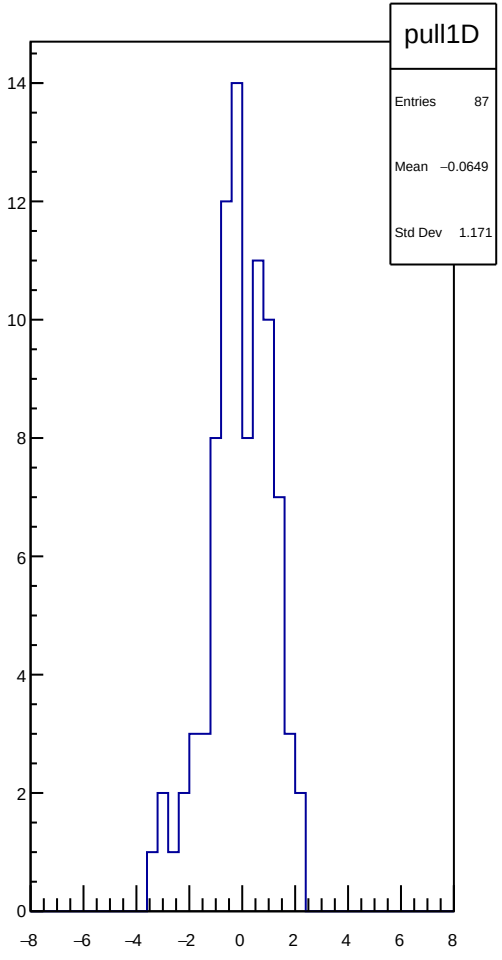

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 128.6 / 86
p0 3.059 ± 0.1176
pull
Entries 87
Mean 123.4
Std Dev 0
pull1D
Entries 87
Mean −0.2204
Std Dev 1.196

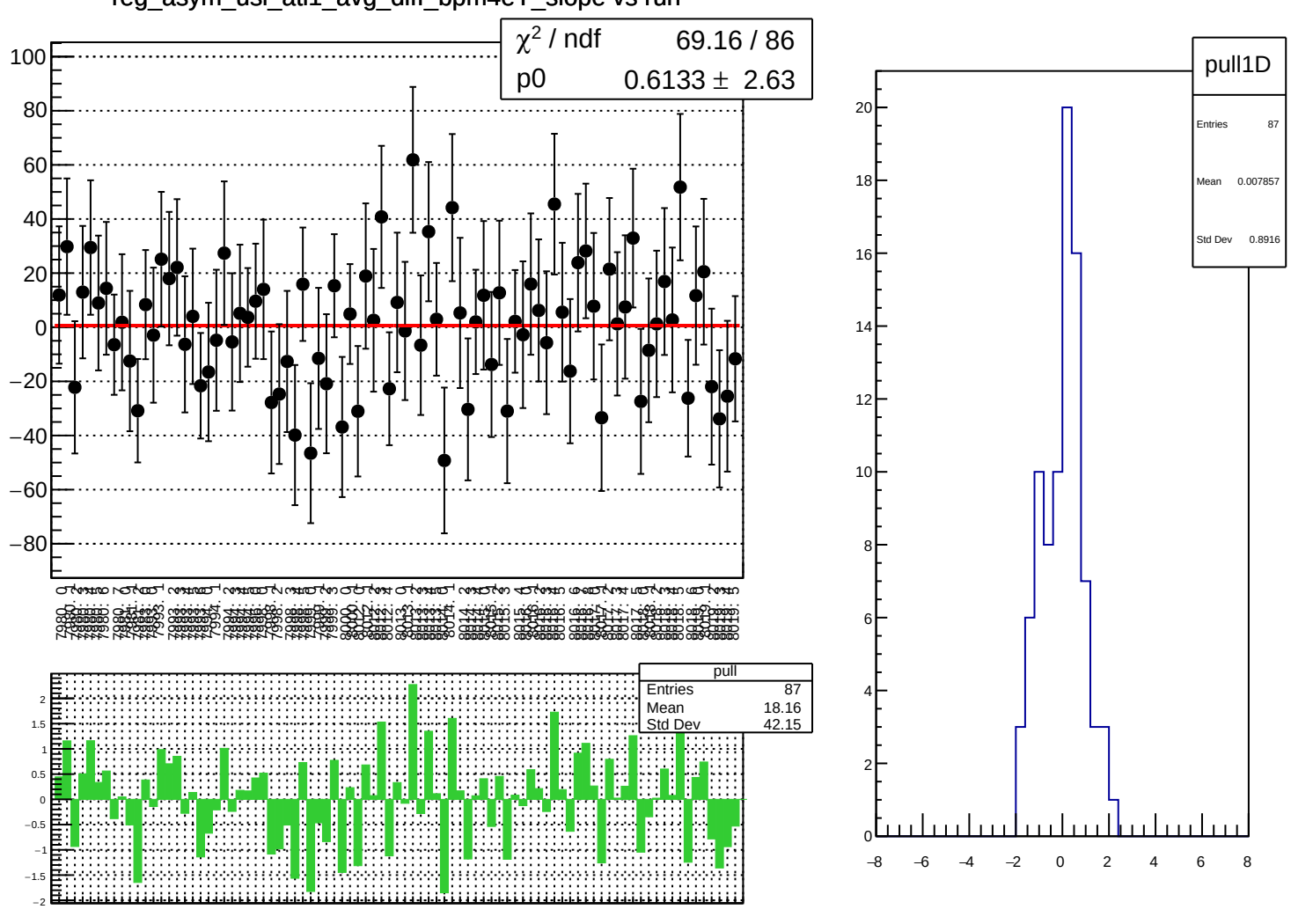

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 121.8 / 86
p0 −26.82 ± 1.728
pull
Entries 87
Mean −89.55
Std Dev 0
pull1D
Entries 87
Mean 0.1073
Std Dev 1.178

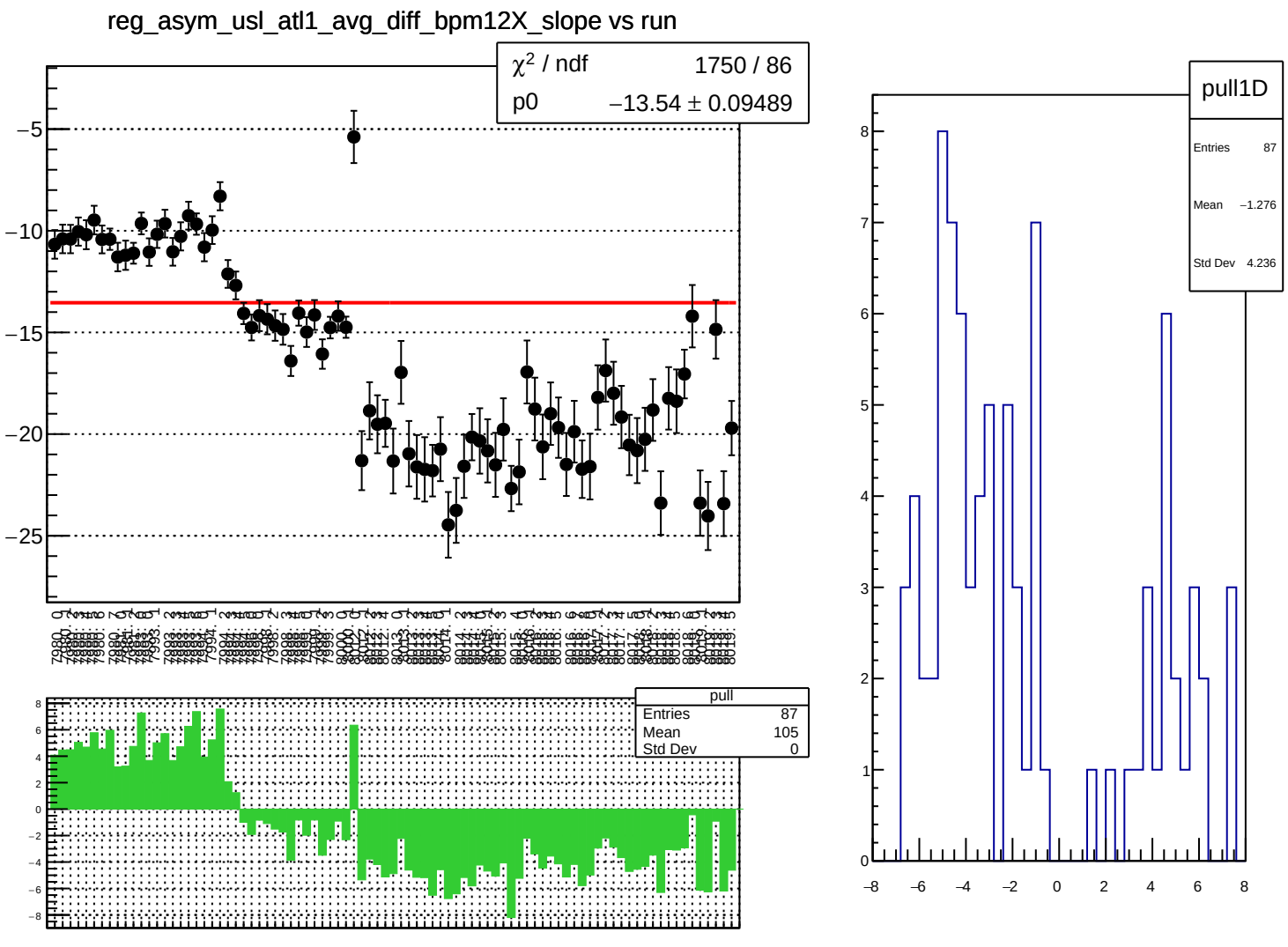

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 66.81 / 86
p0 3.08 ± 2.403
pull
Entries 87
Mean −27.8
Std Dev 0

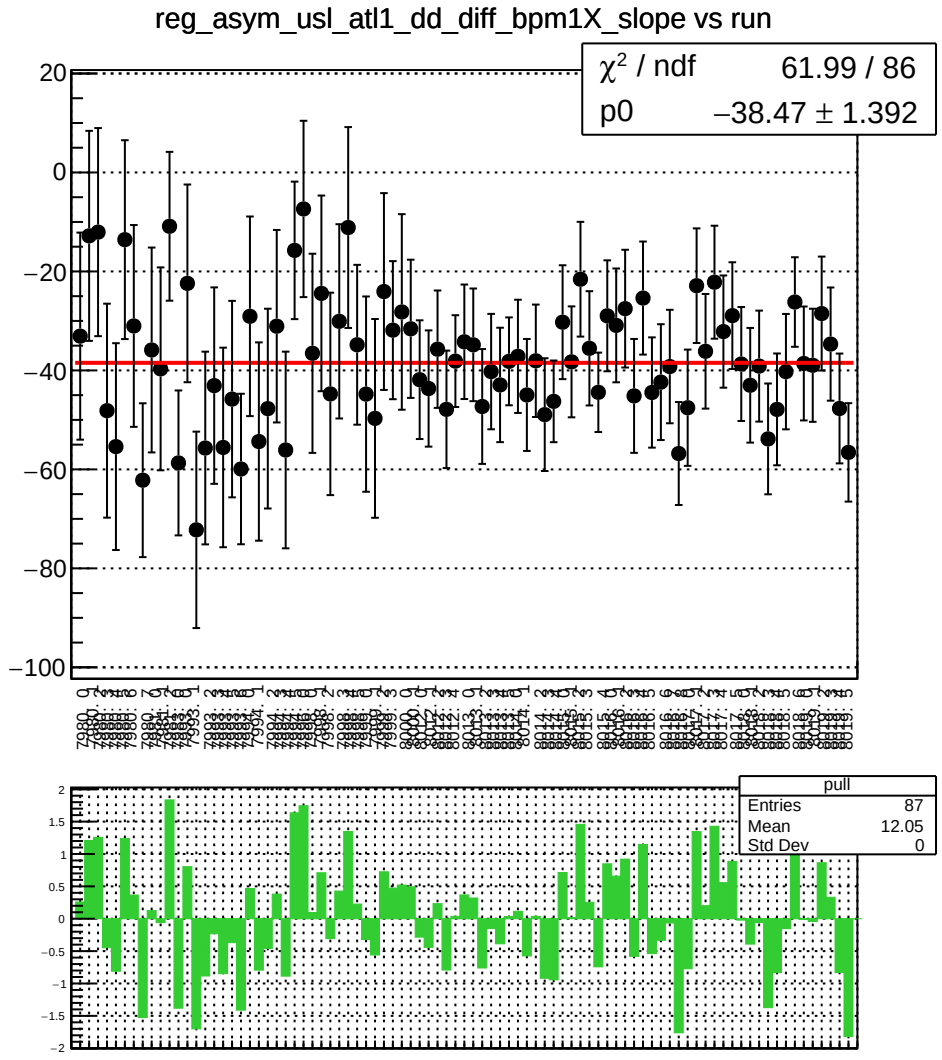

pull1D
Entries 87
Mean −0.00894
Std Dev 0.8763

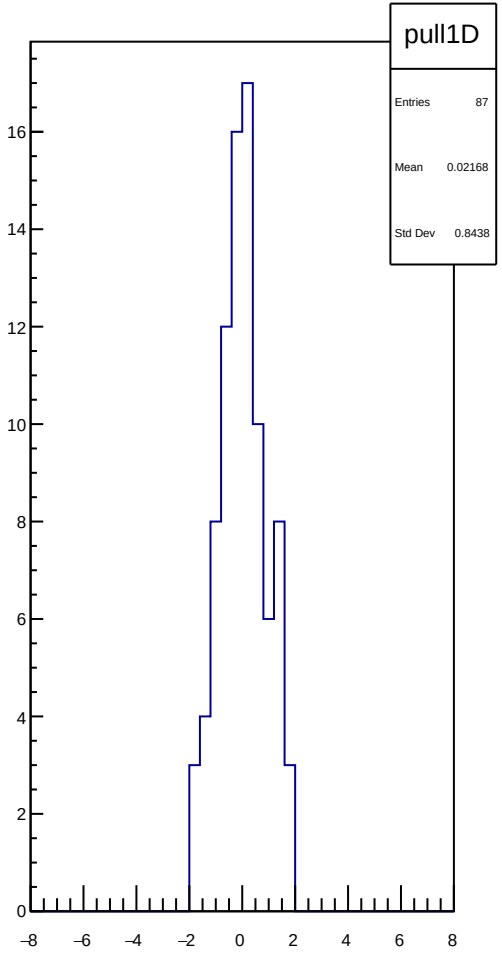

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 119.6 / 86
p0 8.634 ± 1.745
pull
Entries 87
Mean −176.3
Std Dev 0

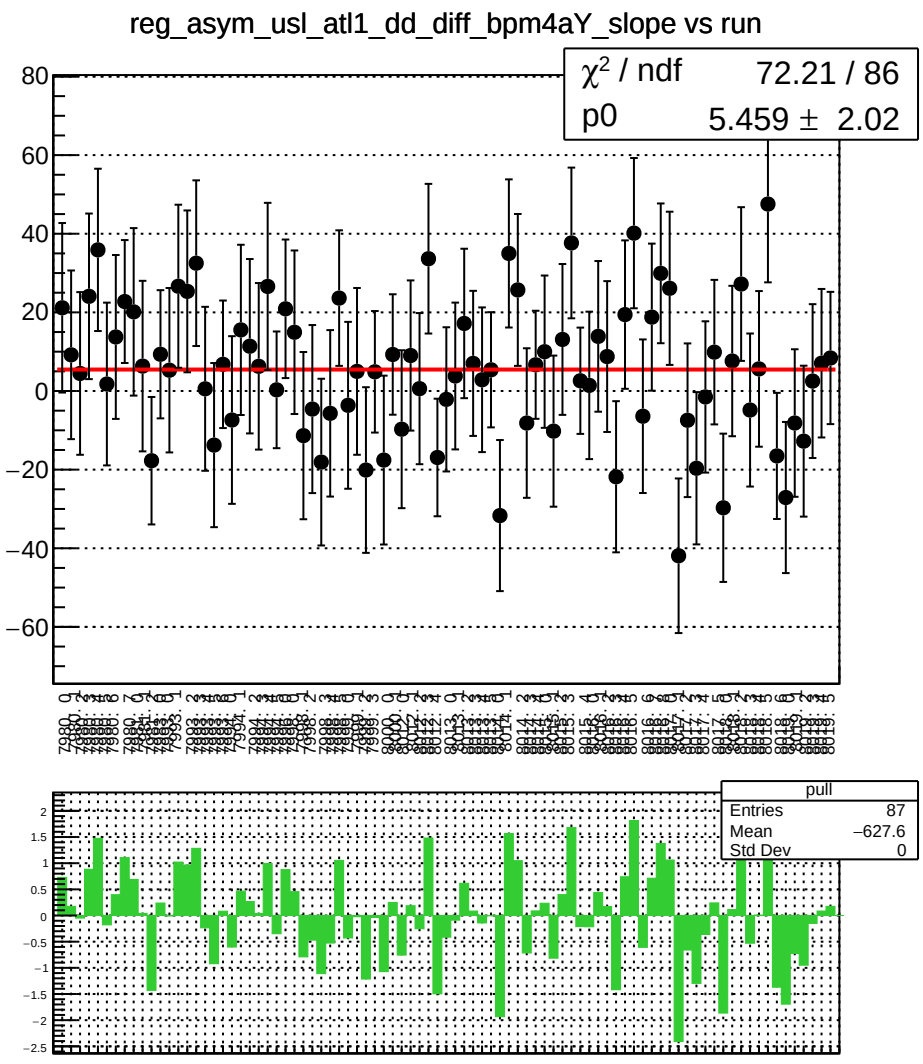

pull1D
Entries 87
Mean −0.0649
Std Dev 1.171

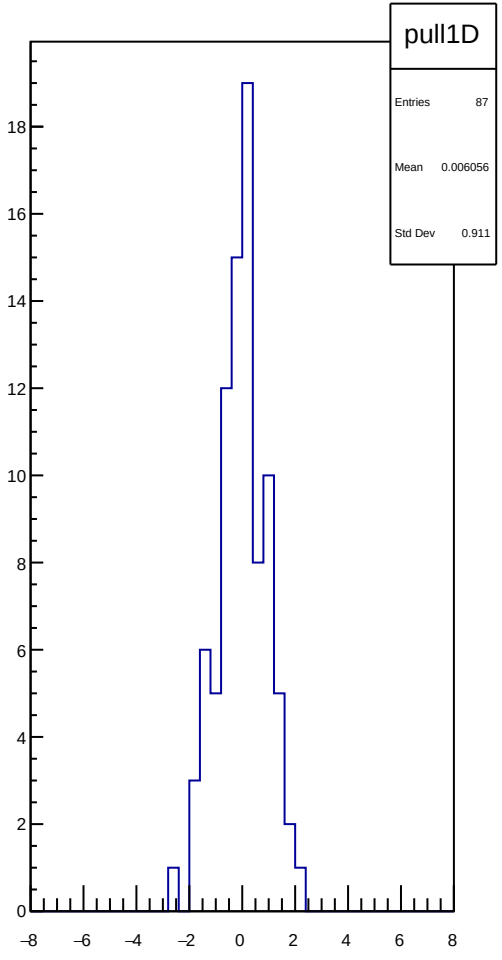

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.16 / 86
p0 0.6133 ± 2.63
pull
Entries 87
Mean 18.16
Std Dev 42.15
pull1D
Entries 87
Mean 0.007857
Std Dev 0.8916

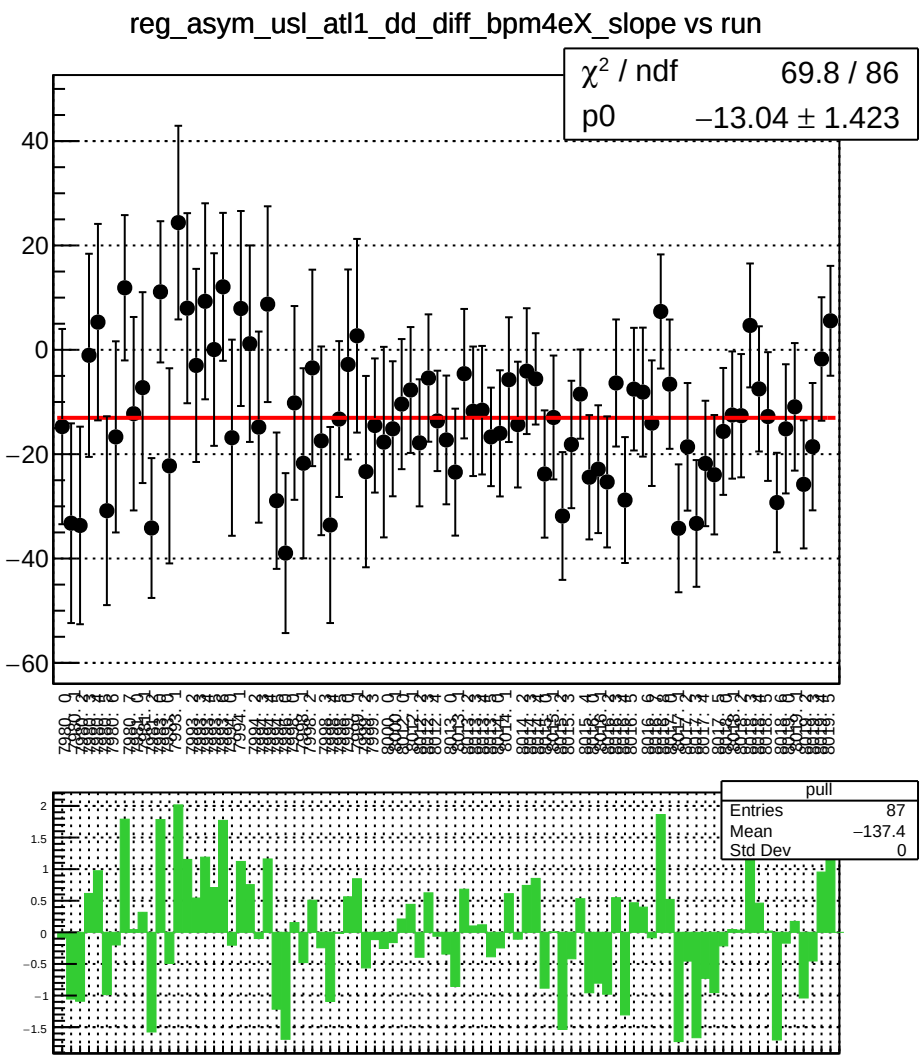

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 1750 / 86
p0 −13.54 ± 0.09489
pull
Entries 87
Mean 105
Std Dev 0
pull1D
Entries 87
Mean −1.276
Std Dev 4.236

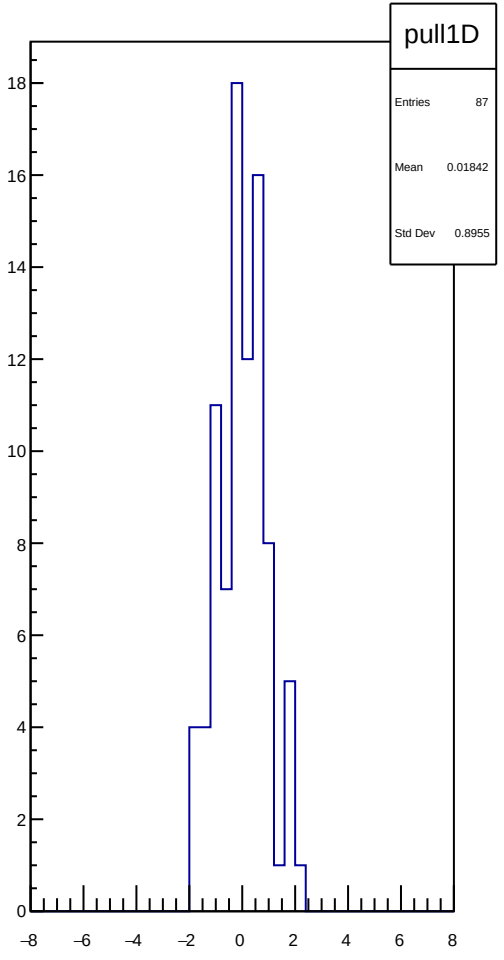

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 61.99 / 86
p0 −38.47 ± 1.392
pull
Entries 87
Mean 12.05
Std Dev 0

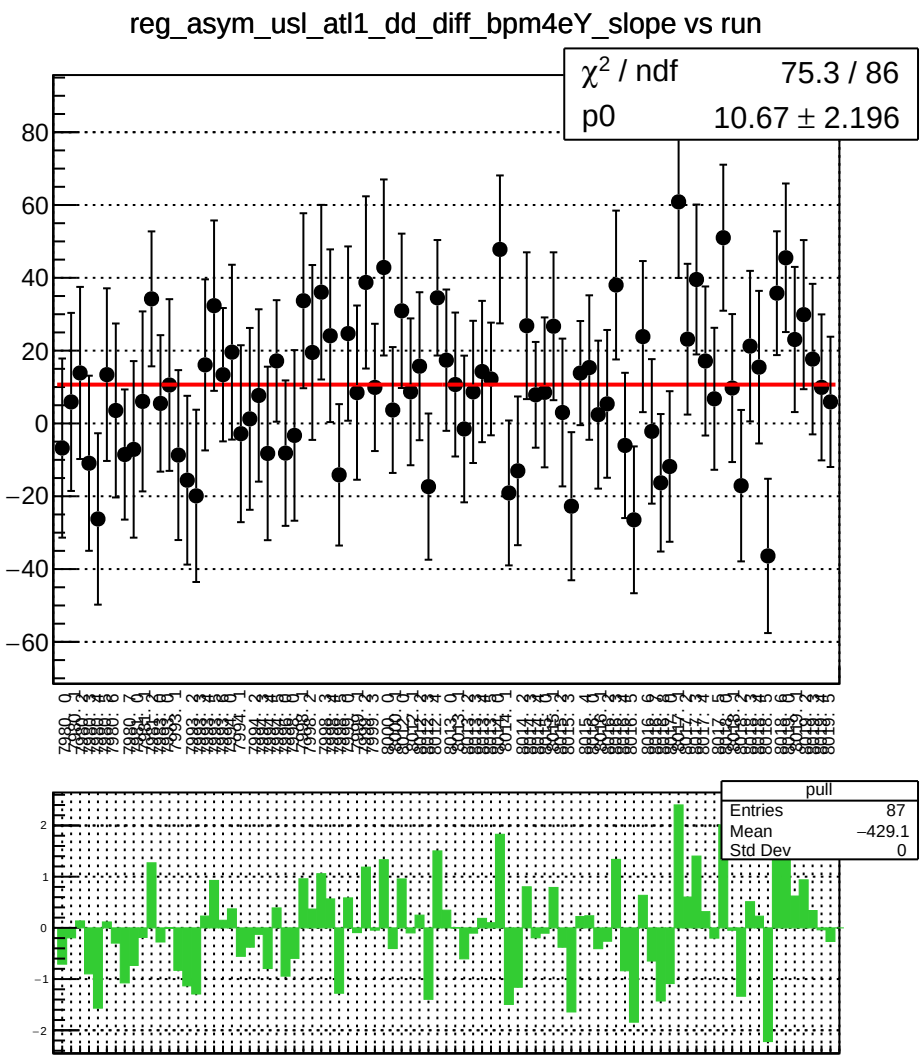

pull1D
Entries 87
Mean 0.02168
Std Dev 0.8438

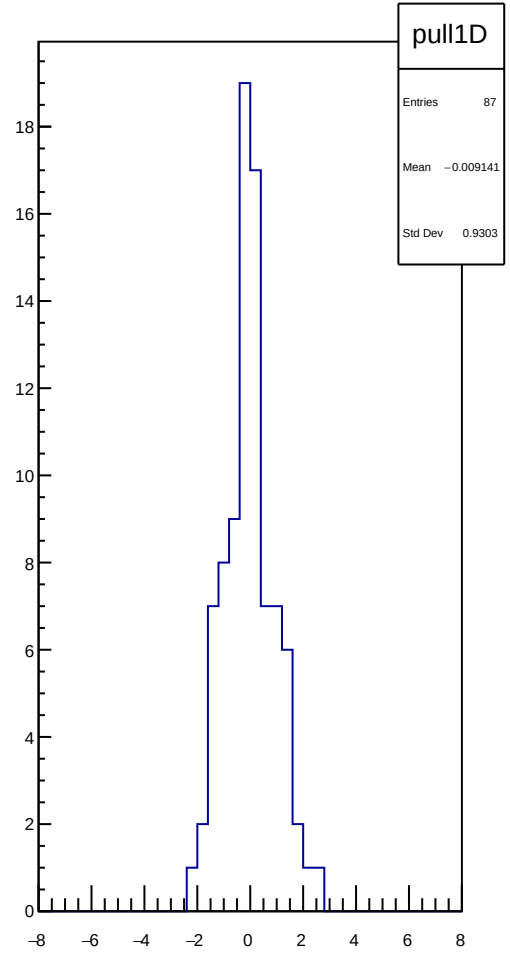

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.21 / 86
p0 5.459 ± 2.02
pull
Entries 87
Mean −627.6
Std Dev 0

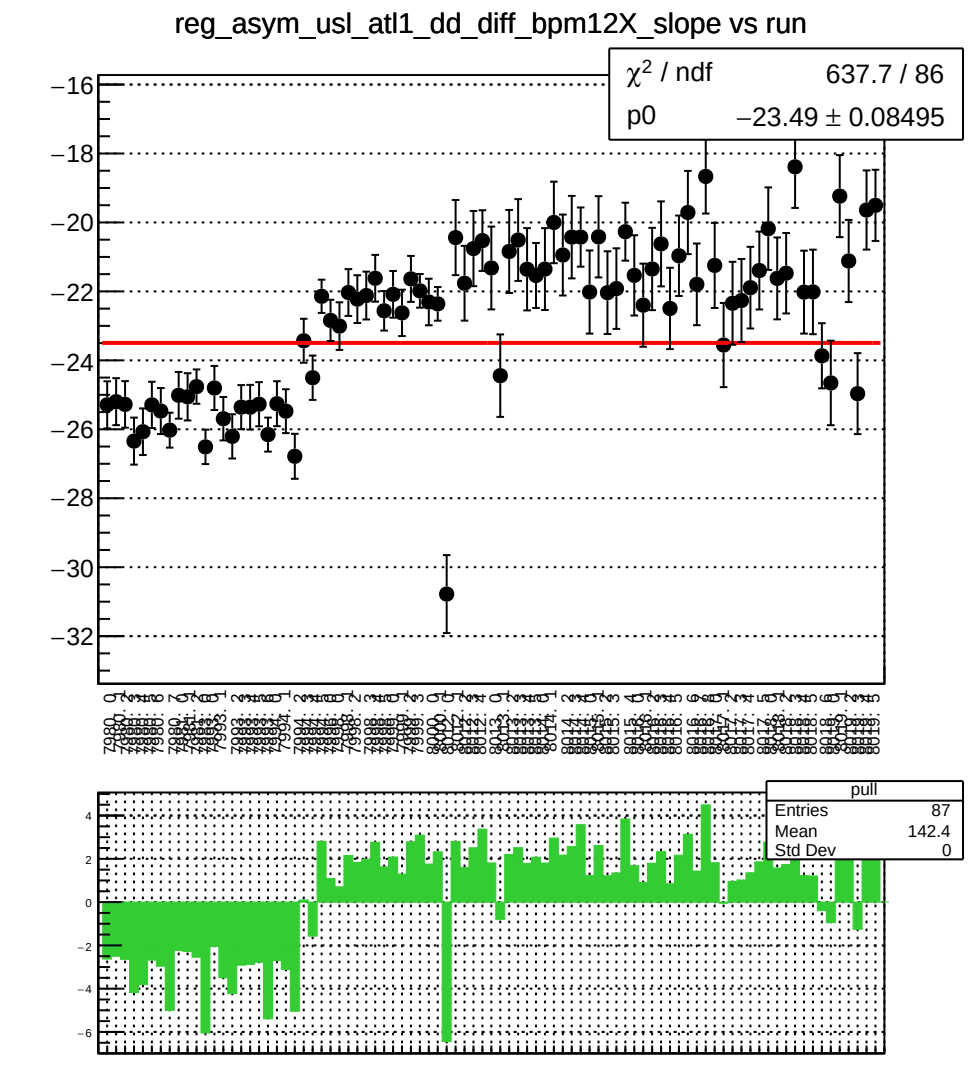

pull1D
Entries 87
Mean 0.006056
Std Dev 0.911

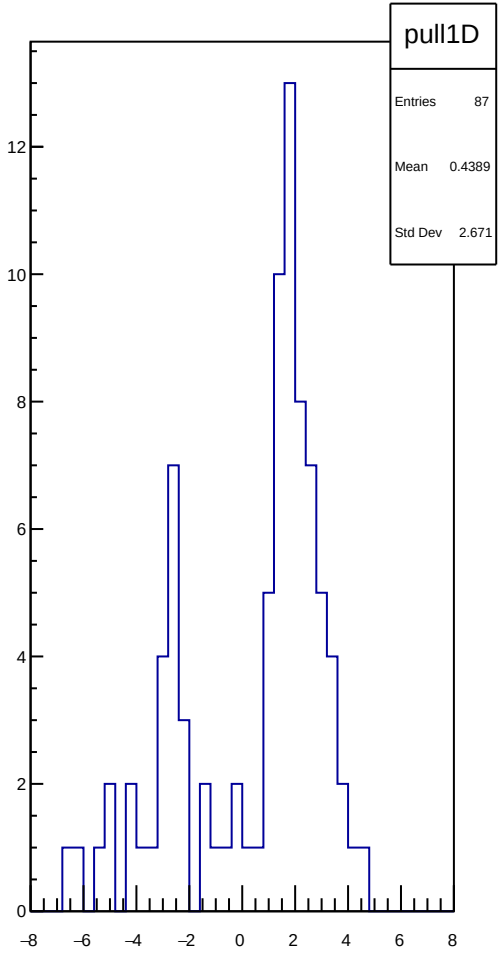

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.8 / 86
p0 −13.04 ± 1.423
pull
Entries 87
Mean −137.4
Std Dev 0

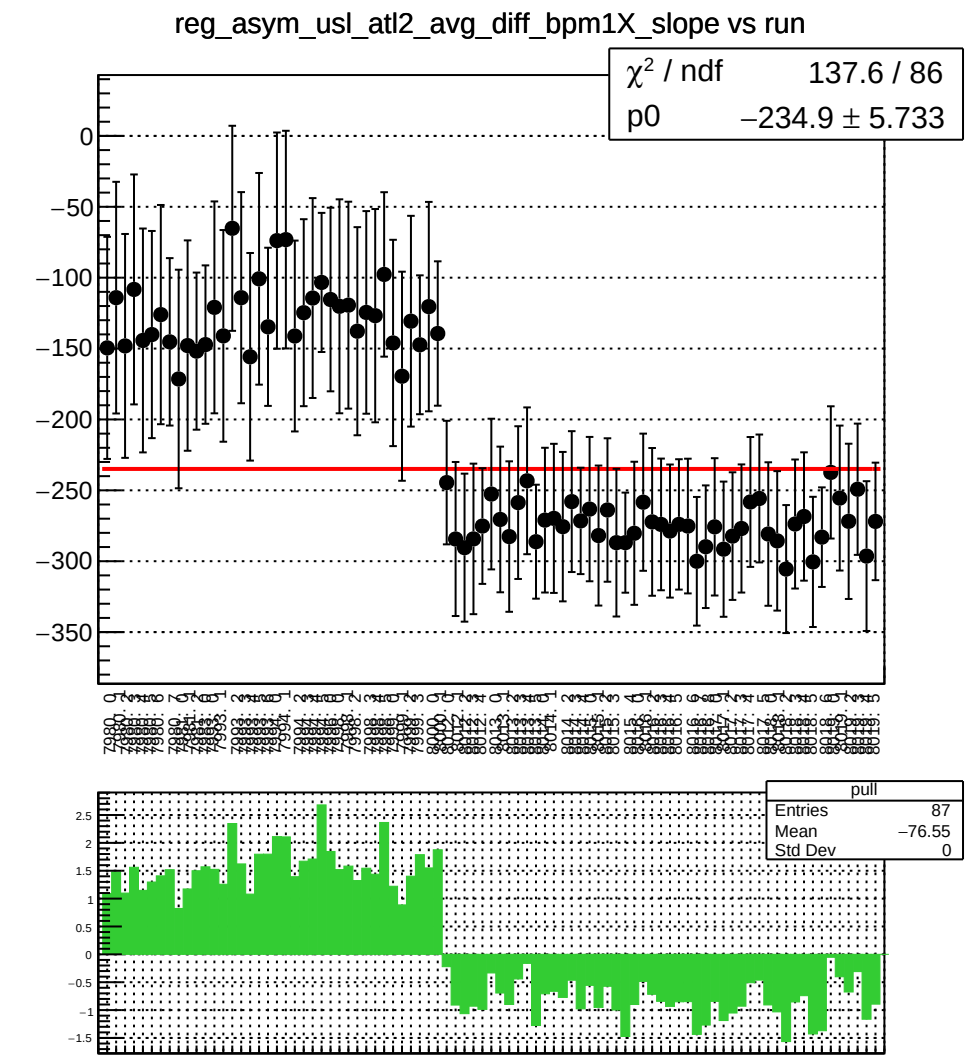

pull1D
Entries 87
Mean 0.01842
Std Dev 0.8955

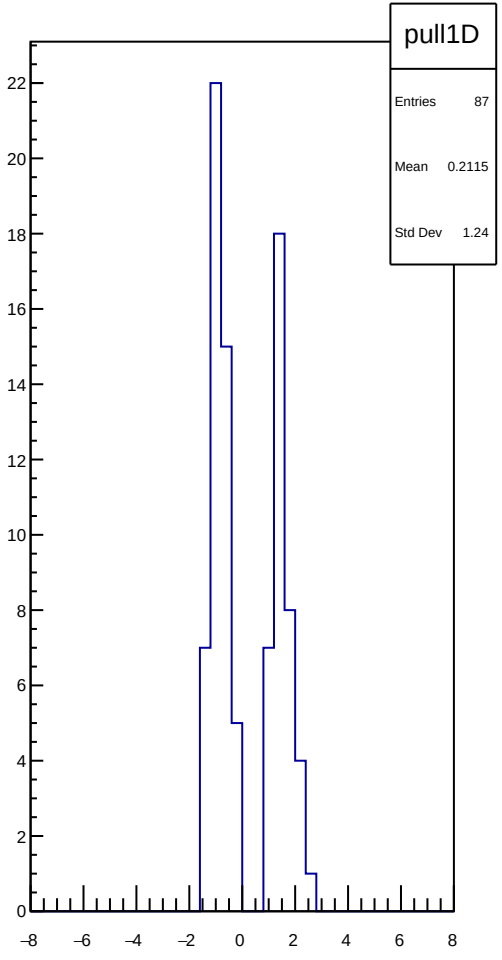

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 75.3 / 86
p0 10.67 ± 2.196
pull
Entries 87
Mean −429.1
Std Dev 0

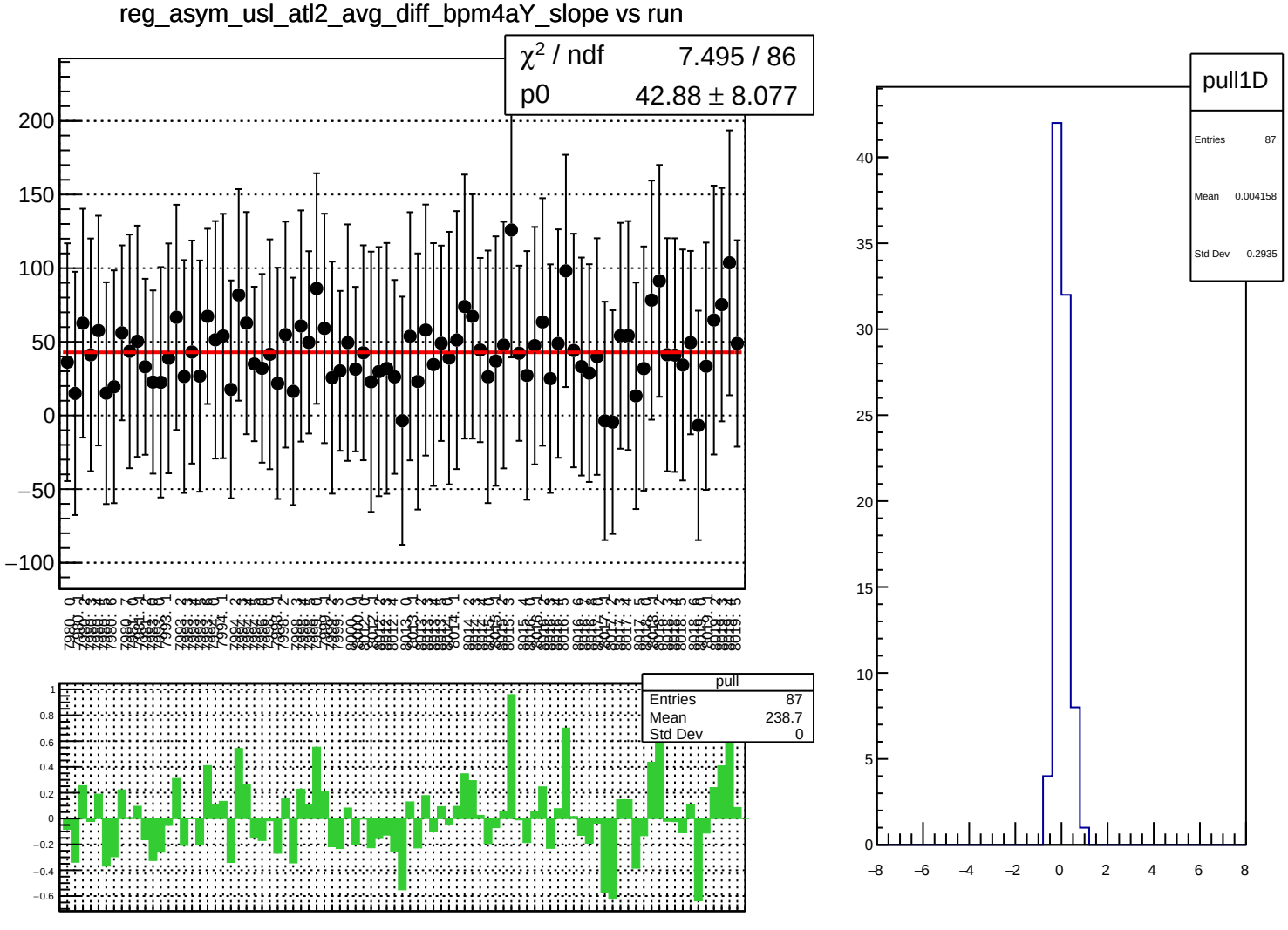

pull1D
Entries 87
Mean −0.009141
Std Dev 0.9303

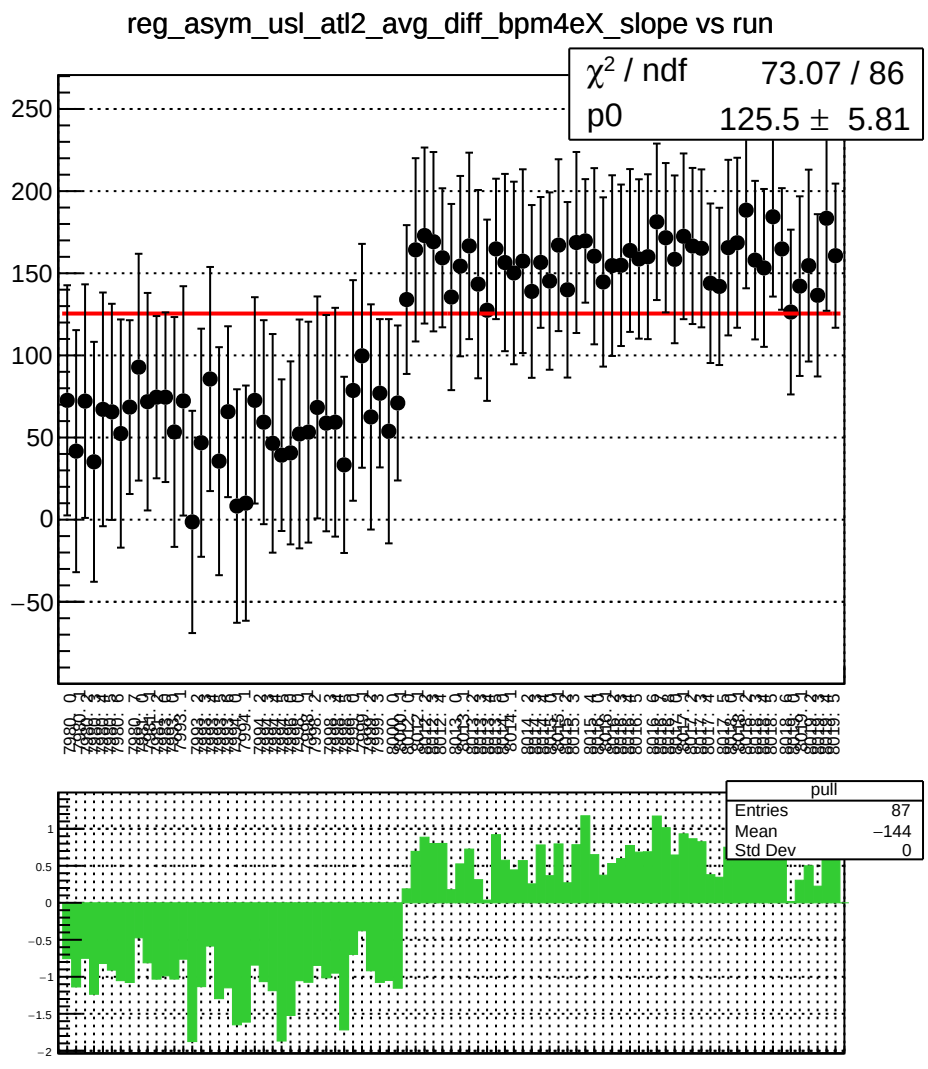

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 637.7 / 86
p0 −23.49 ± 0.08495
pull
Entries 87
Mean 142.4
Std Dev 0

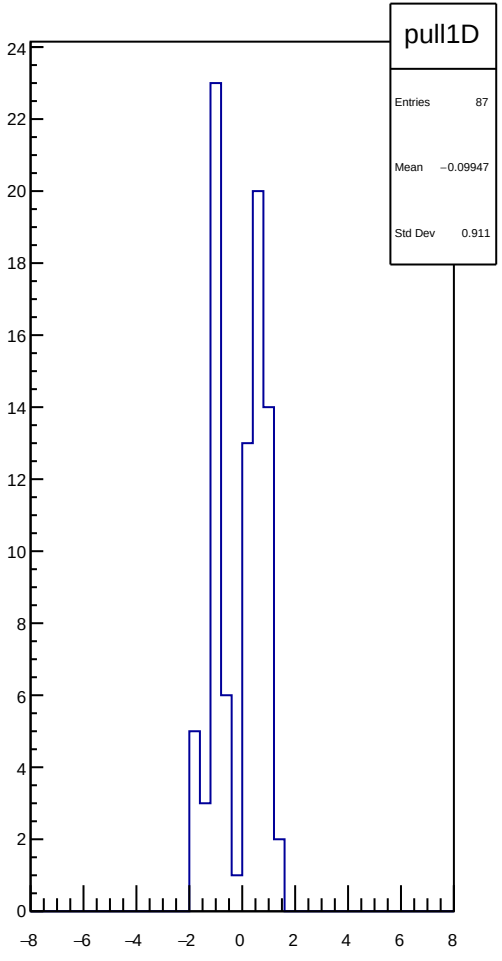

pull1D
Entries 87
Mean 0.4389
Std Dev 2.671

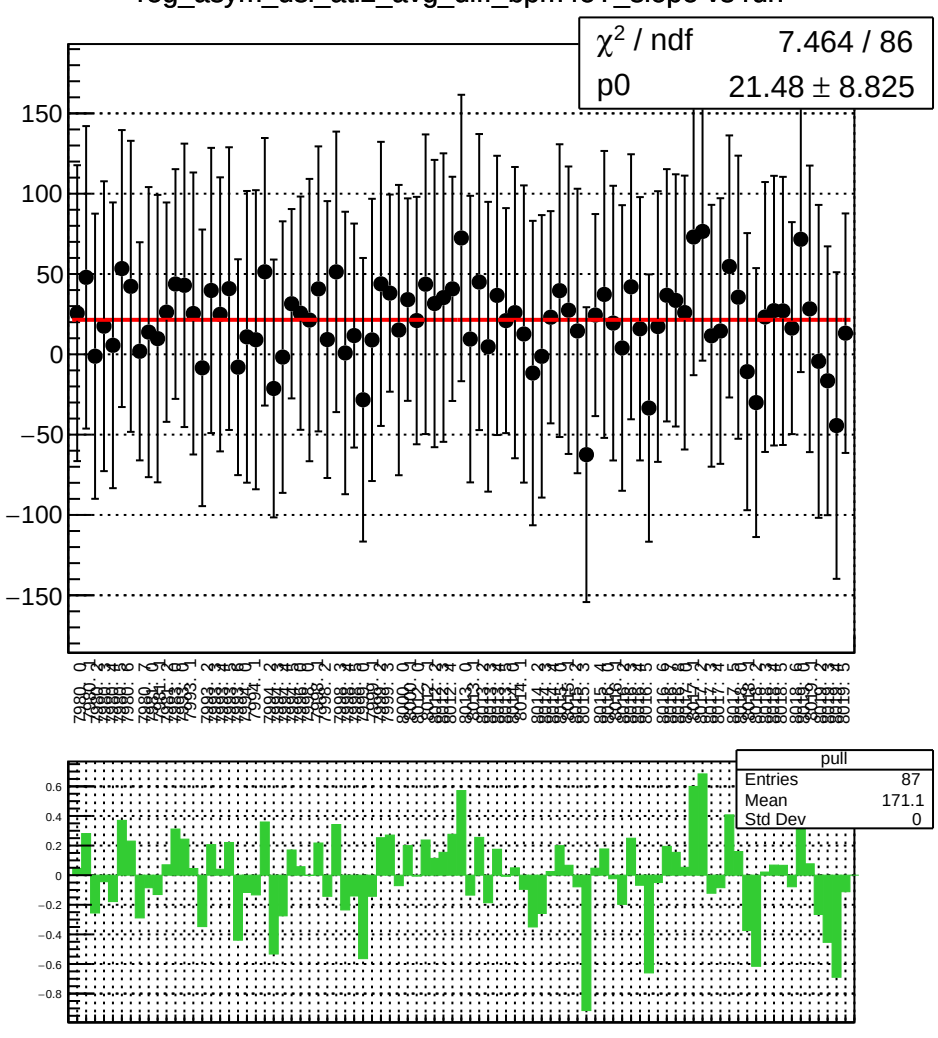

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 137.6 / 86
p0 −234.9 ± 5.733
pull
Entries 87
Mean −76.55
Std Dev 0

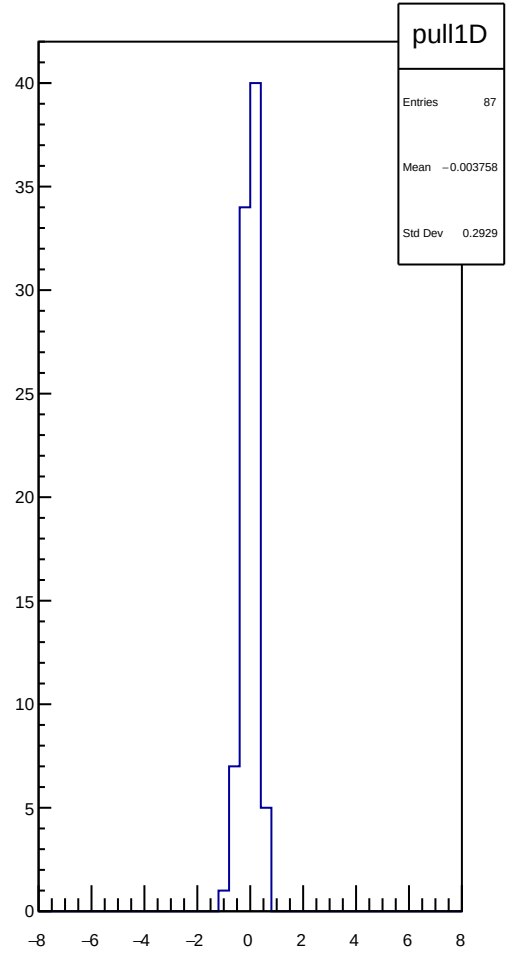

pull1D
Entries 87
Mean 0.2115
Std Dev 1.24

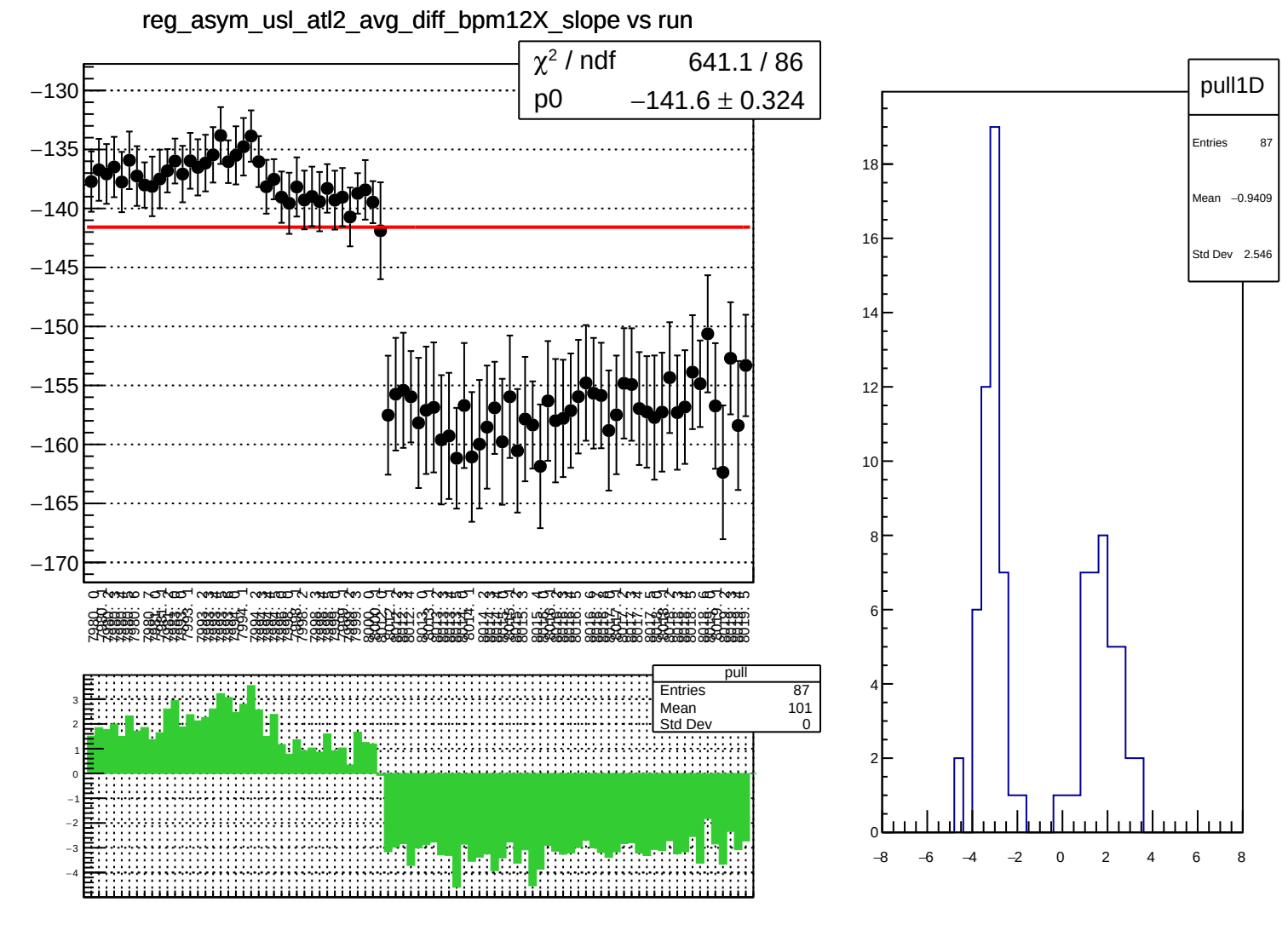

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.495 / 86
p0 42.88 ± 8.077
pull
Entries 87
Mean 238.7
Std Dev 0
pull1D
Entries 87
Mean 0.004158
Std Dev 0.2935

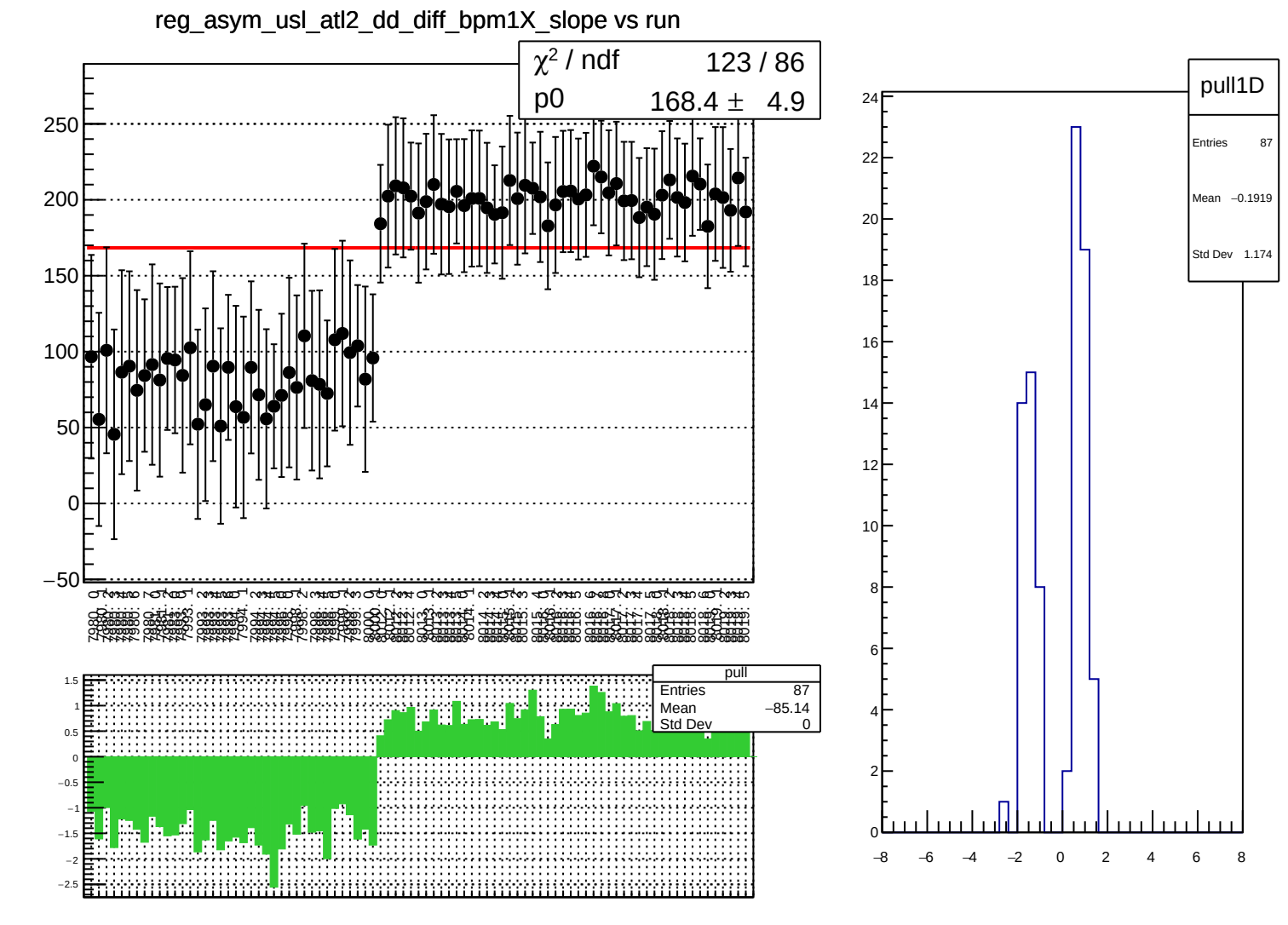

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 73.07 / 86
p0 125.5 ± 5.81
pull
Entries 87
Mean −144
Std Dev 0

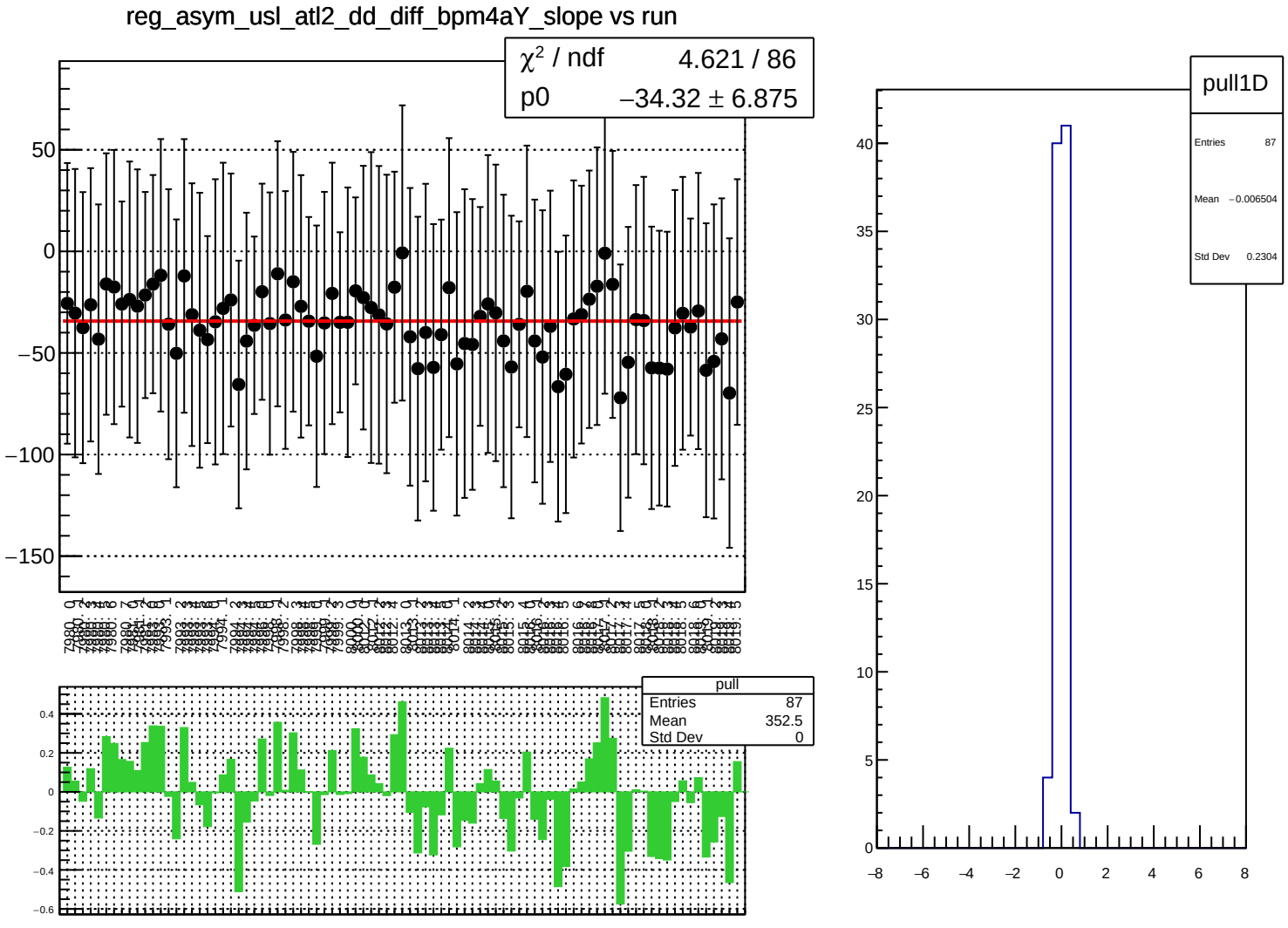

pull1D
Entries 87
Mean −0.09947
Std Dev 0.911

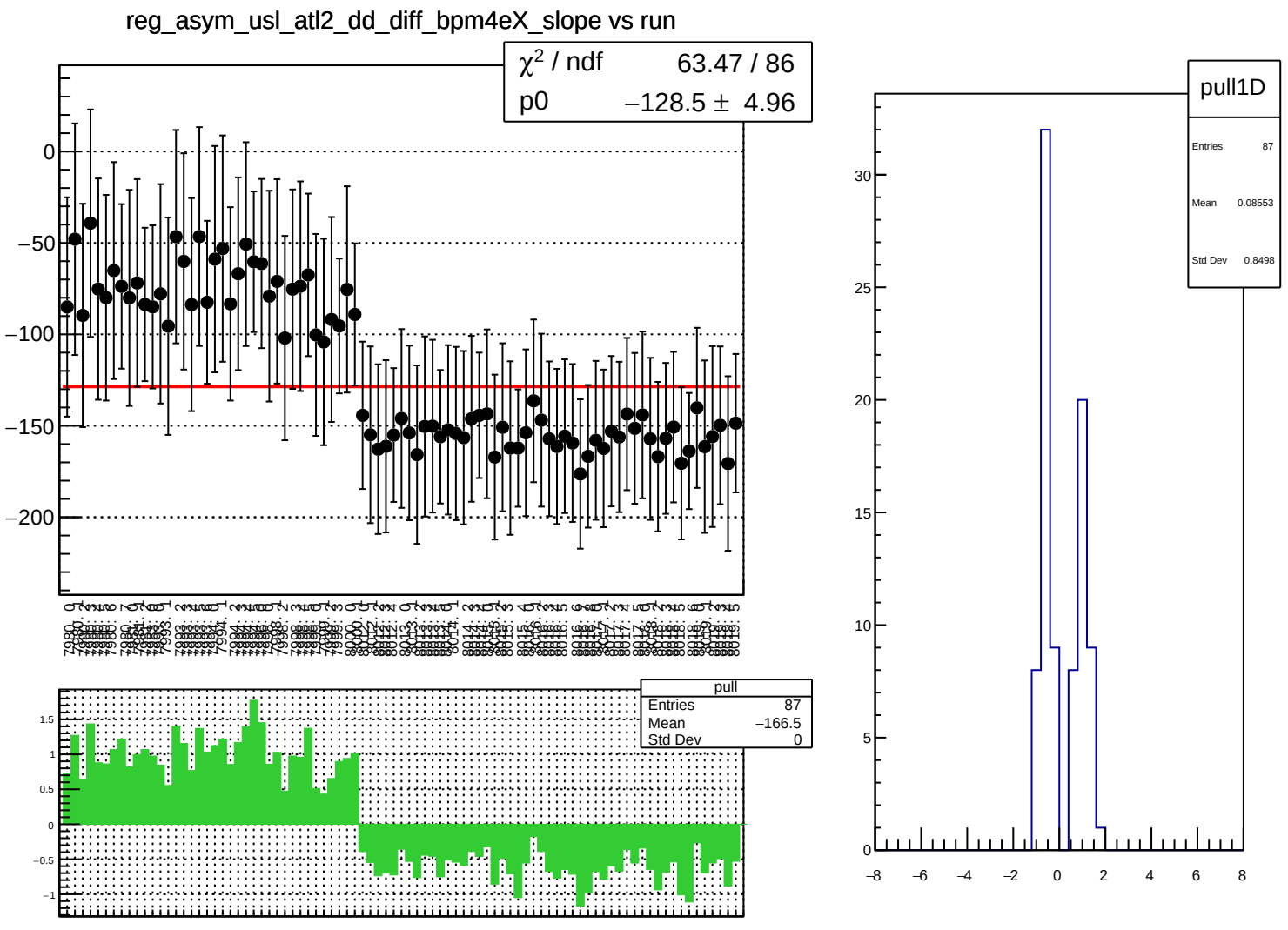

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.464 / 86
p0 21.48 ± 8.825
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 171.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

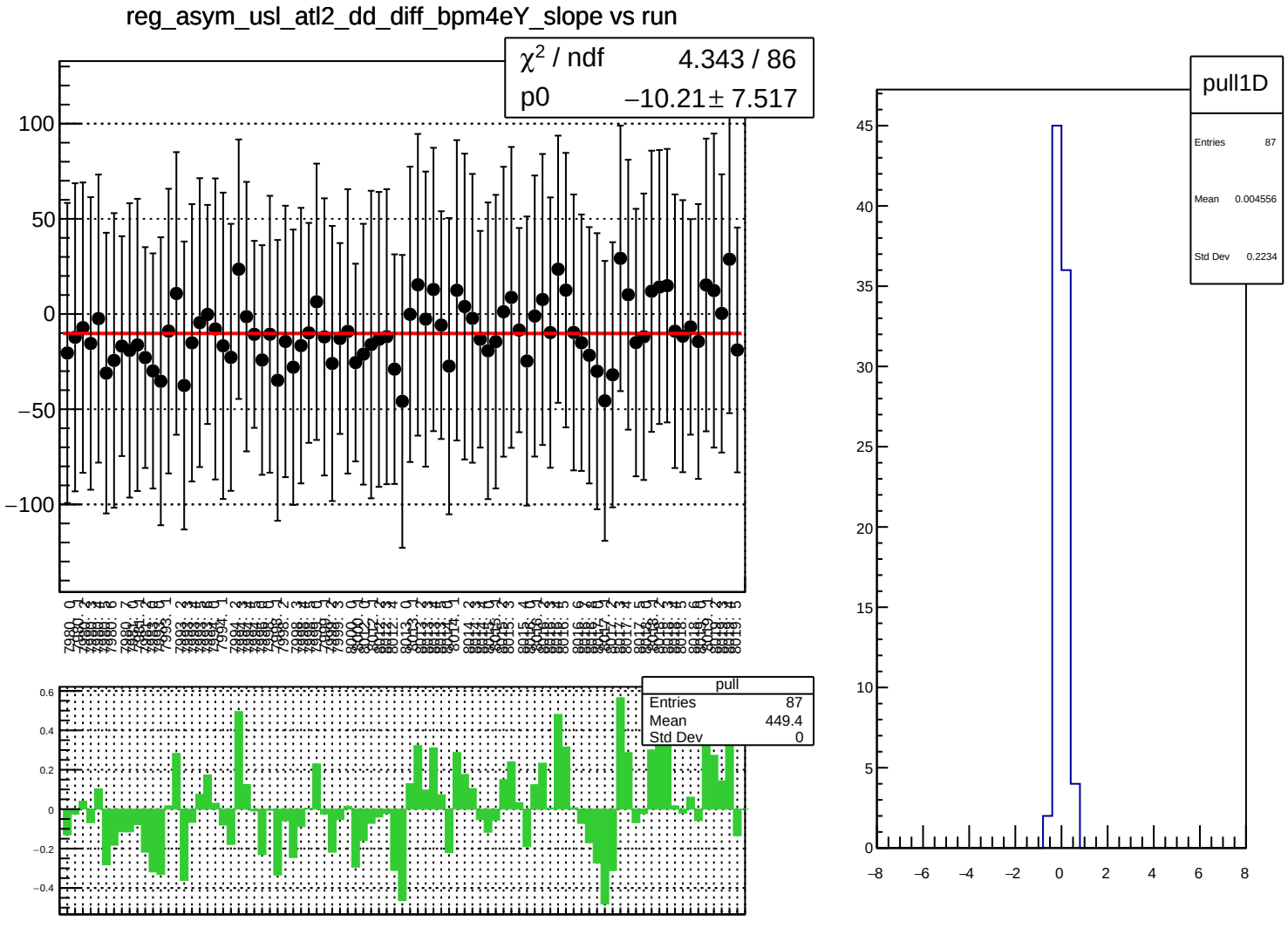

pull1D
Entries 87
Mean −0.003758
Std Dev 0.2929
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

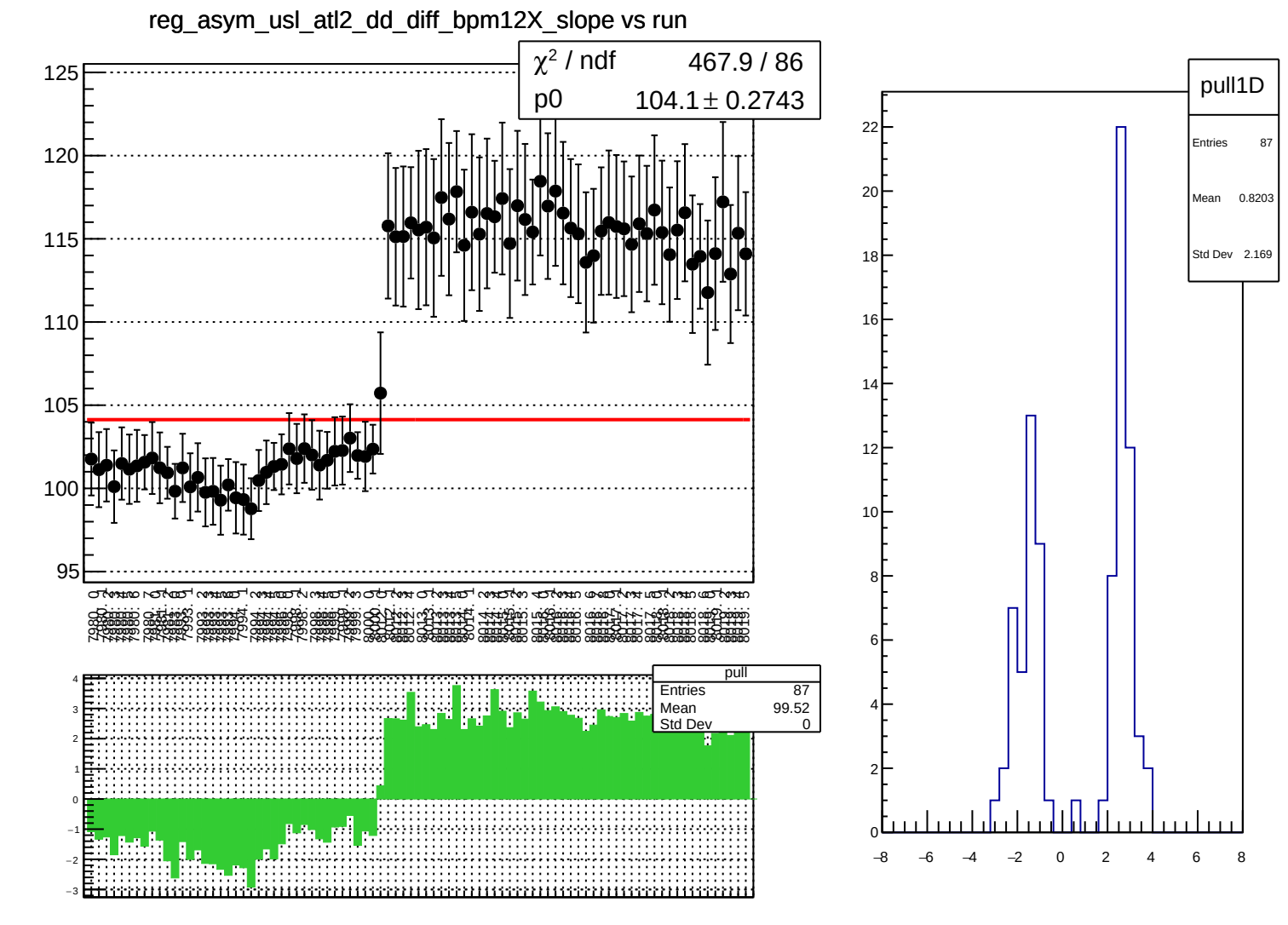

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 641.1 / 86
p0 −141.6 ± 0.324
pull
Entries 87
Mean 101
Std Dev 0
pull1D
Entries 87
Mean −0.9409
Std Dev 2.546

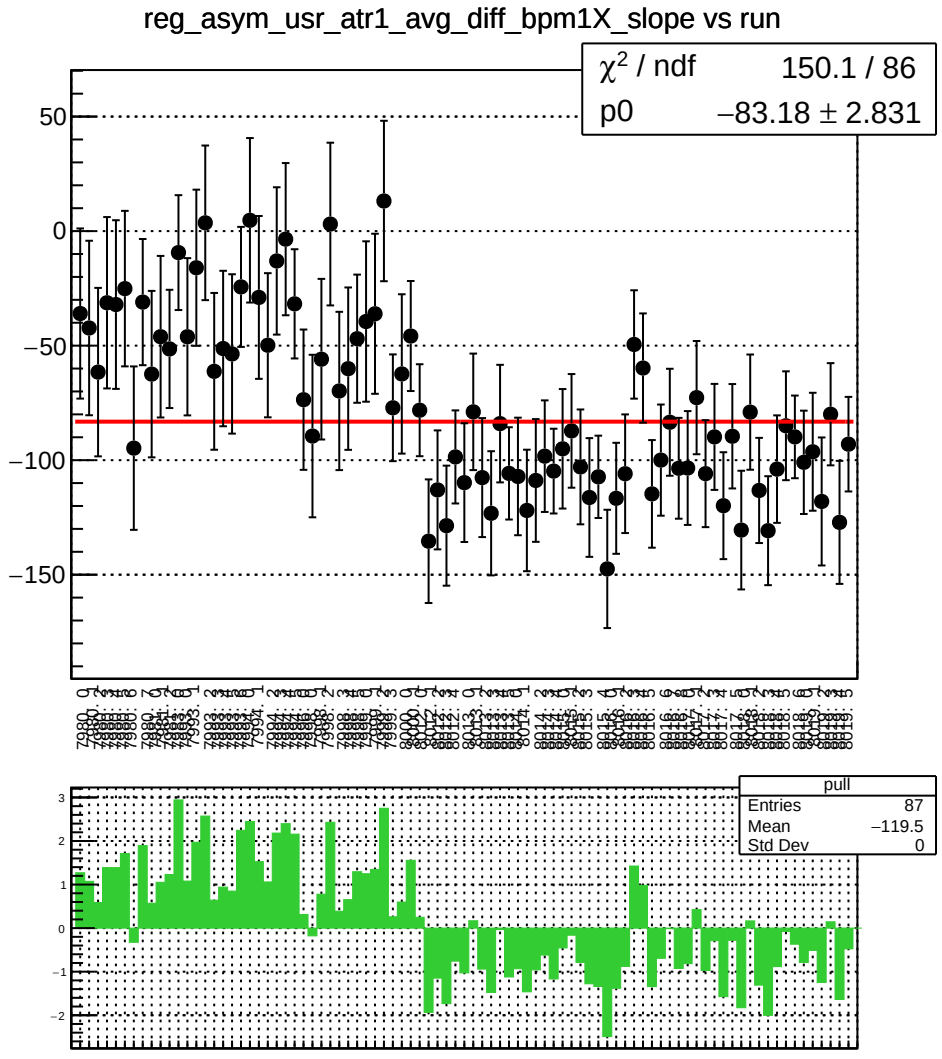

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 123 / 86
p0 168.4 ± 4.9
pull
Entries 87
Mean −85.14
Std Dev 0
pull1D
Entries 87
Mean −0.1919
Std Dev 1.174

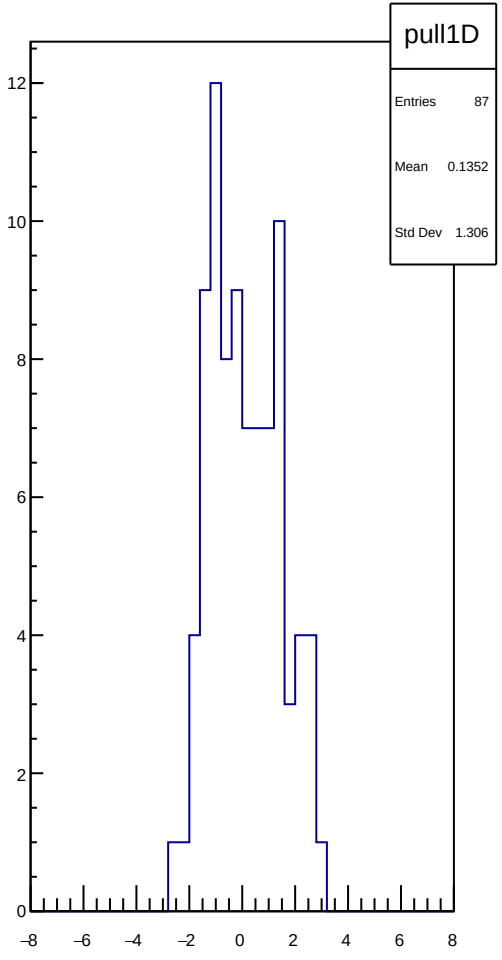

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.621 / 86
p0 −34.32 ± 6.875
50
0
−50
−100
−150
pull
Entries 87
Mean 352.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 87
Mean −0.006504
Std Dev 0.2304
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

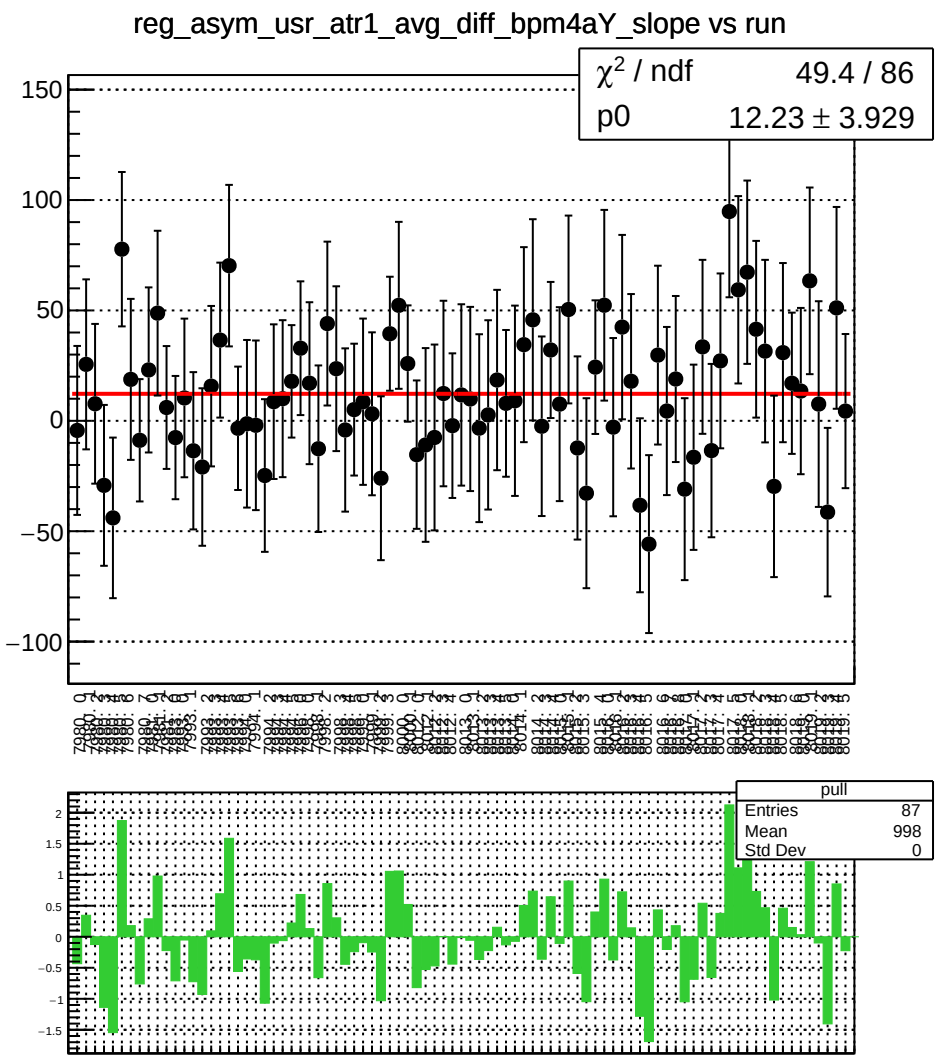

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.47 / 86
p0 −128.5 ± 4.96
pull
Entries 87
Mean −166.5
Std Dev 0
pull1D
Entries 87
Mean 0.08553
Std Dev 0.8498

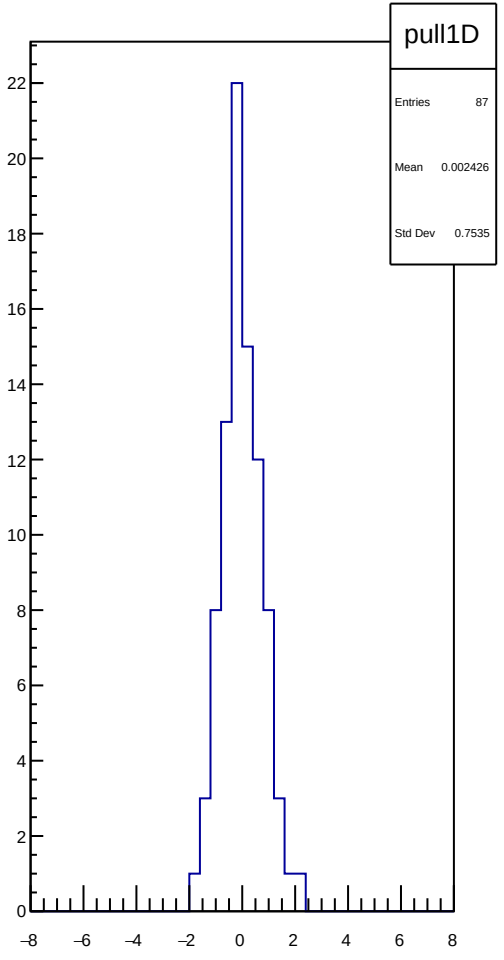

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.343 / 86
p0 −10.21± 7.517
100
50
0
−50
−100
pull
Entries 87
Mean 449.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 87
Mean 0.004556
Std Dev 0.2234
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

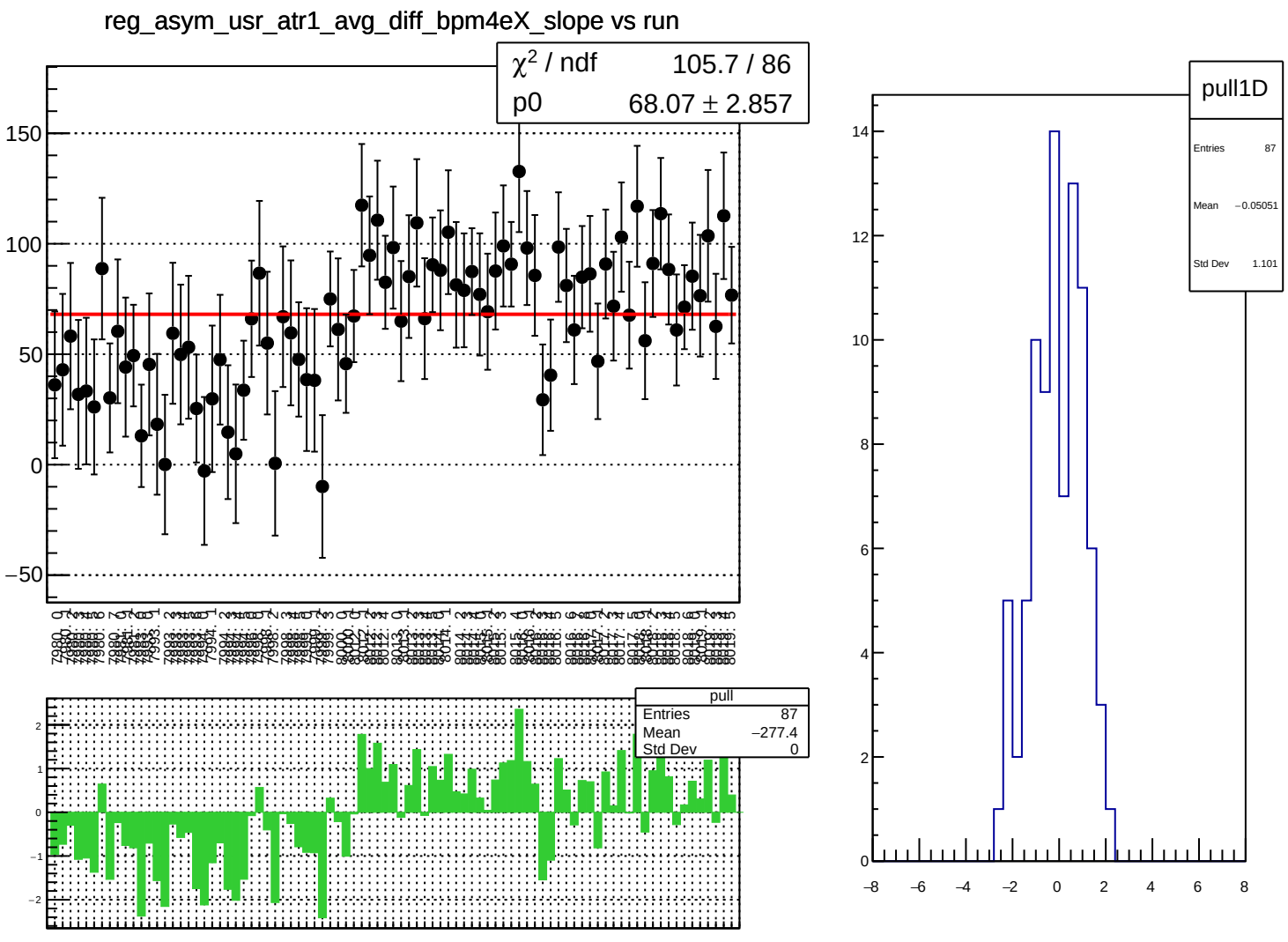

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 467.9 / 86
p0 104.1 ± 0.2743
pull
Entries 87
Mean 99.52
Std Dev 0
pull1D
Entries 87
Mean 0.8203
Std Dev 2.169

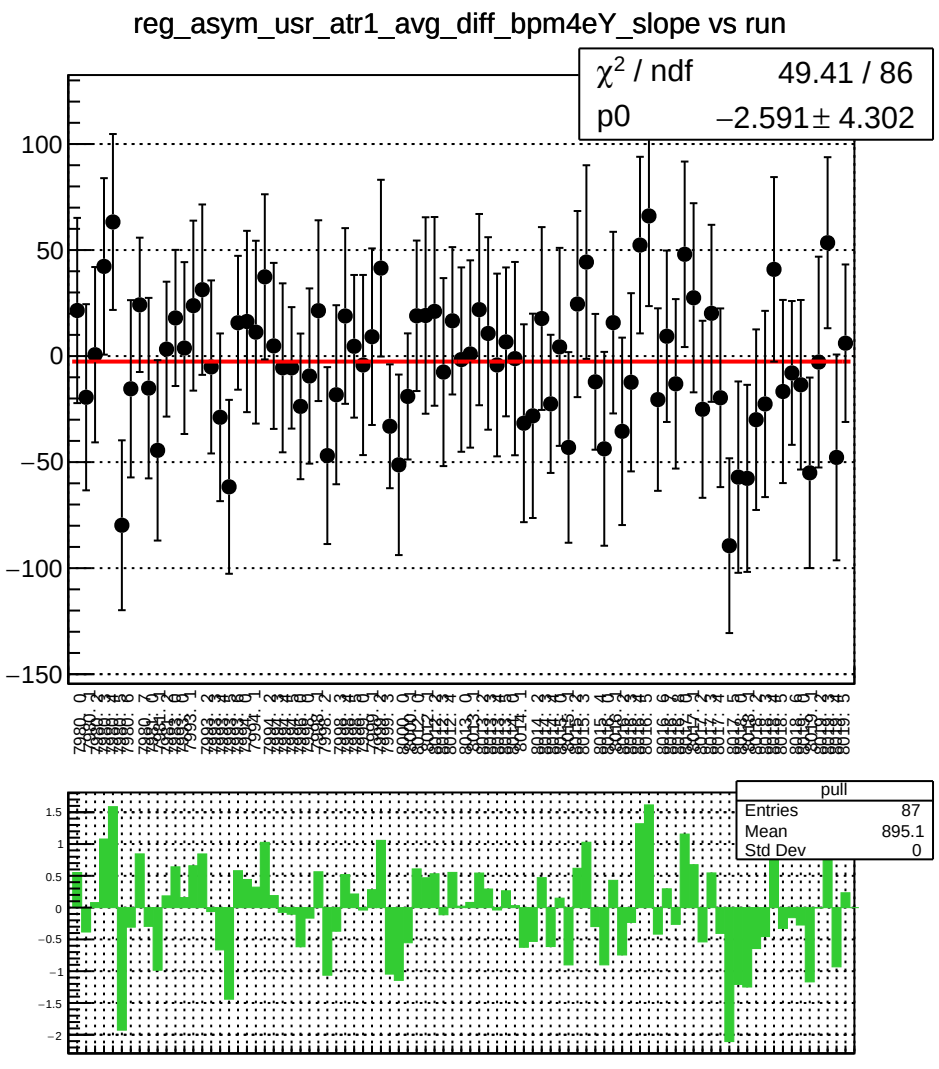

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 150.1 / 86
p0 −83.18 ± 2.831
50
0
−50
−100
−150
pull
Entries 87
Mean −119.5
Std Dev 0
3
2
1
0
−1
−2

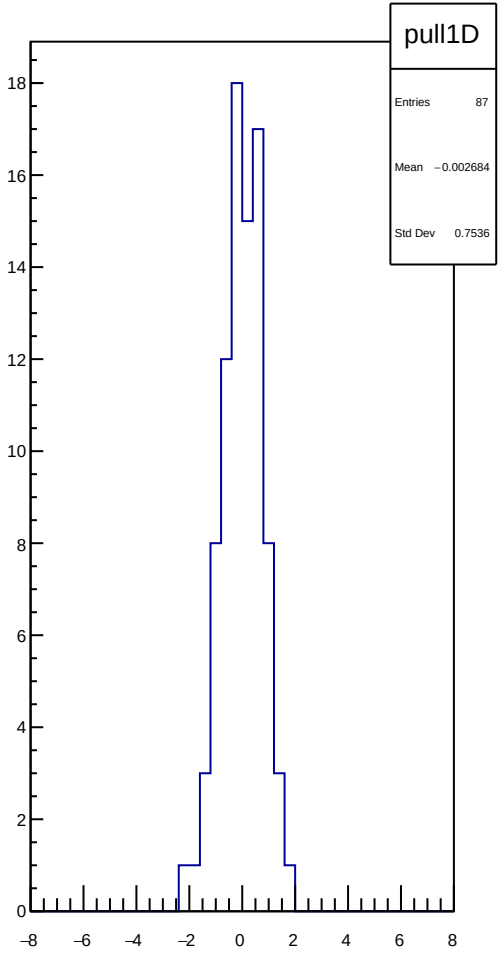

pull1D
Entries 87
Mean 0.1352
Std Dev 1.306
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

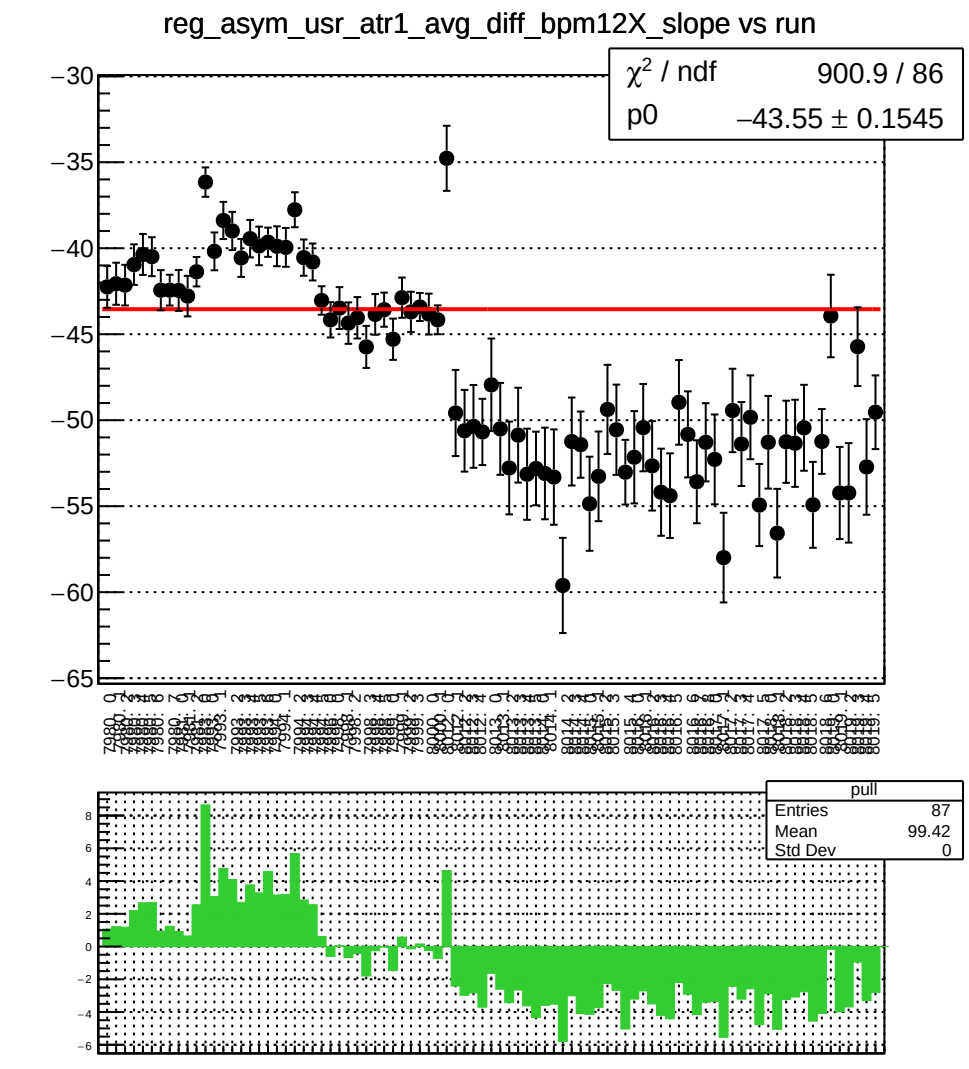

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.4 / 86
p0 12.23 ± 3.929
150
100
50
0
−50
−100
pull
Entries 87
Mean 998
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

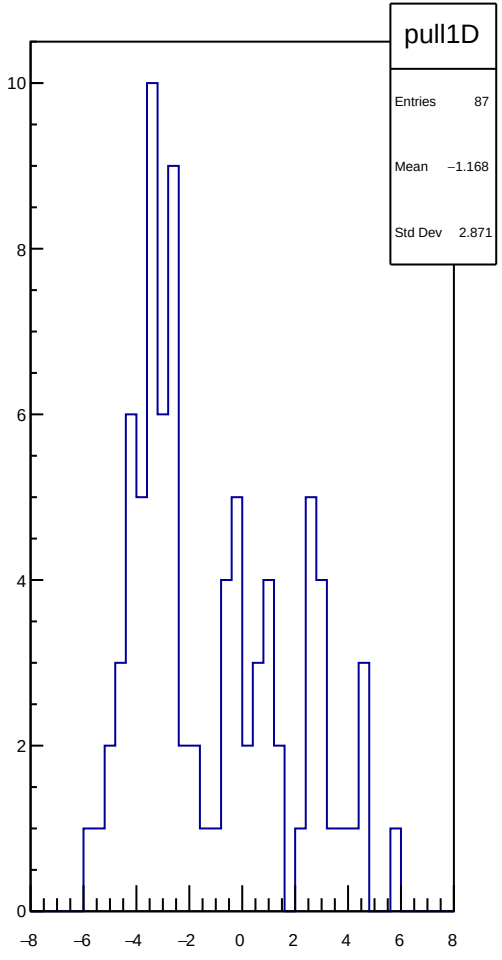

pull1D
Entries 87
Mean 0.002426
Std Dev 0.7535
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

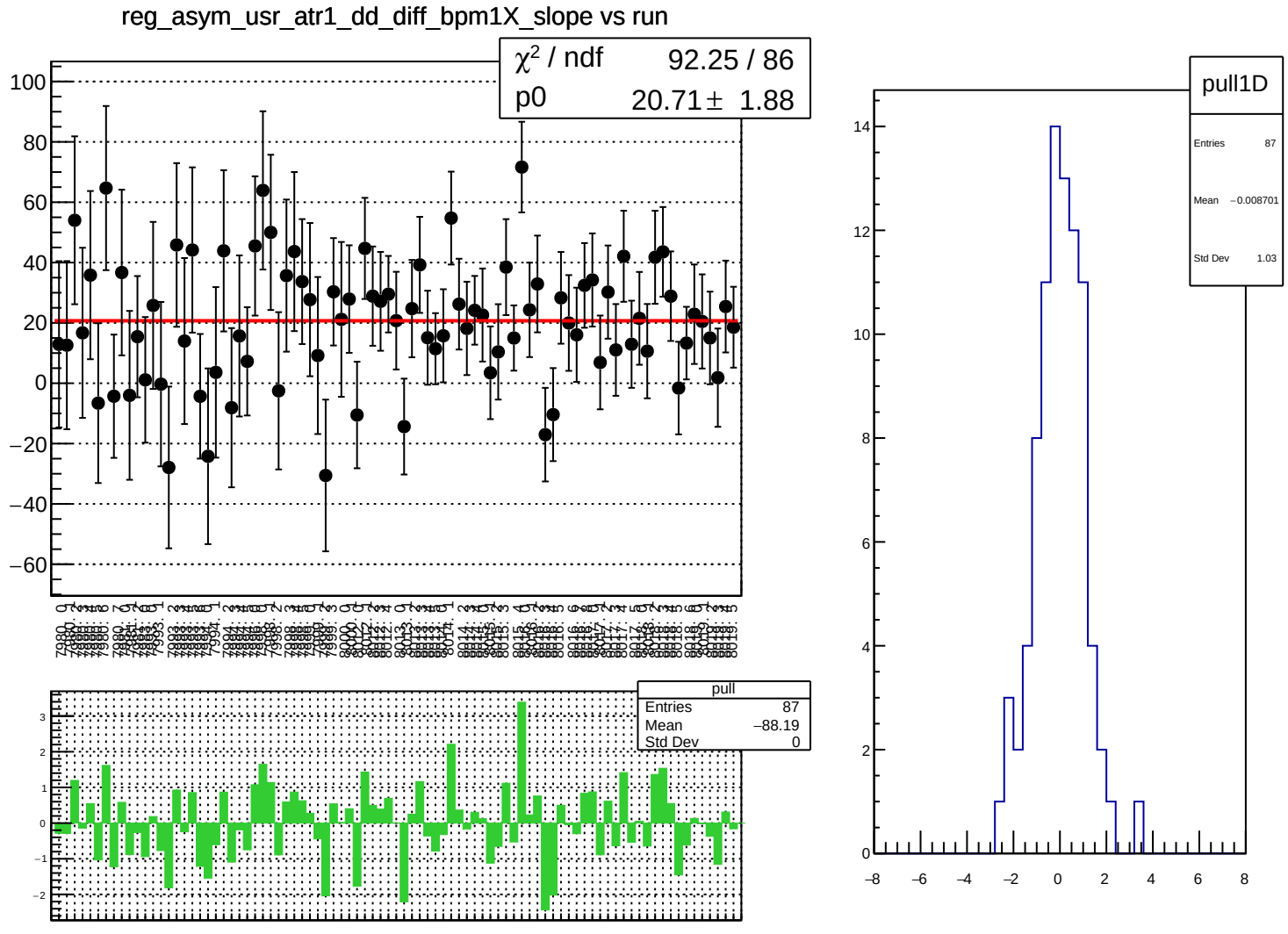

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 105.7 / 86
p0 68.07 ± 2.857
150
100
50
0
−50
pull
Entries 87
Mean −277.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.05051
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

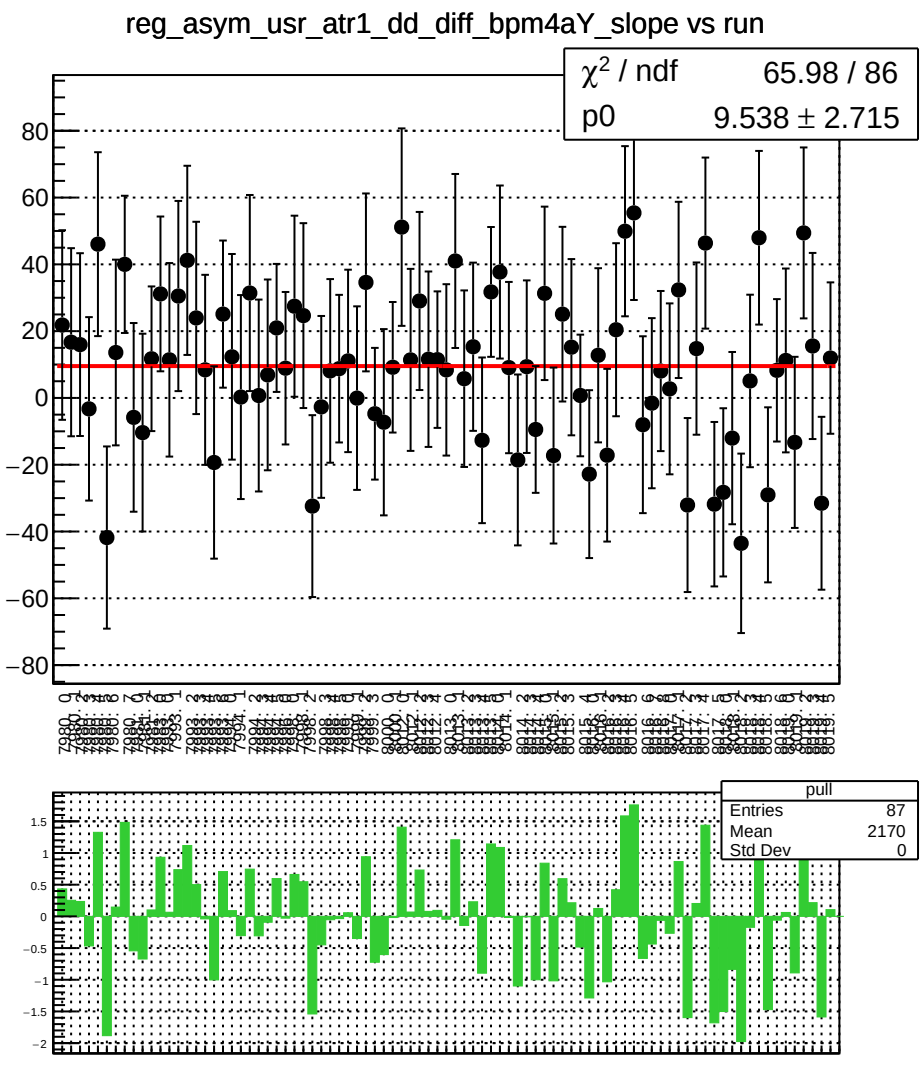

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.41 / 86
p0 −2.591 ± 4.302
pull
Entries 87
Mean 895.1
Std Dev 0

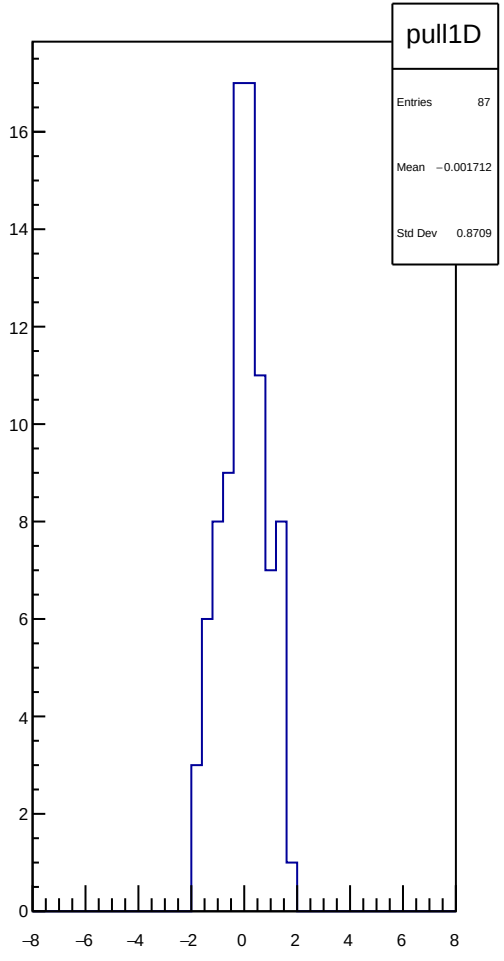

pull1D
Entries 87
Mean −0.002684
Std Dev 0.7536

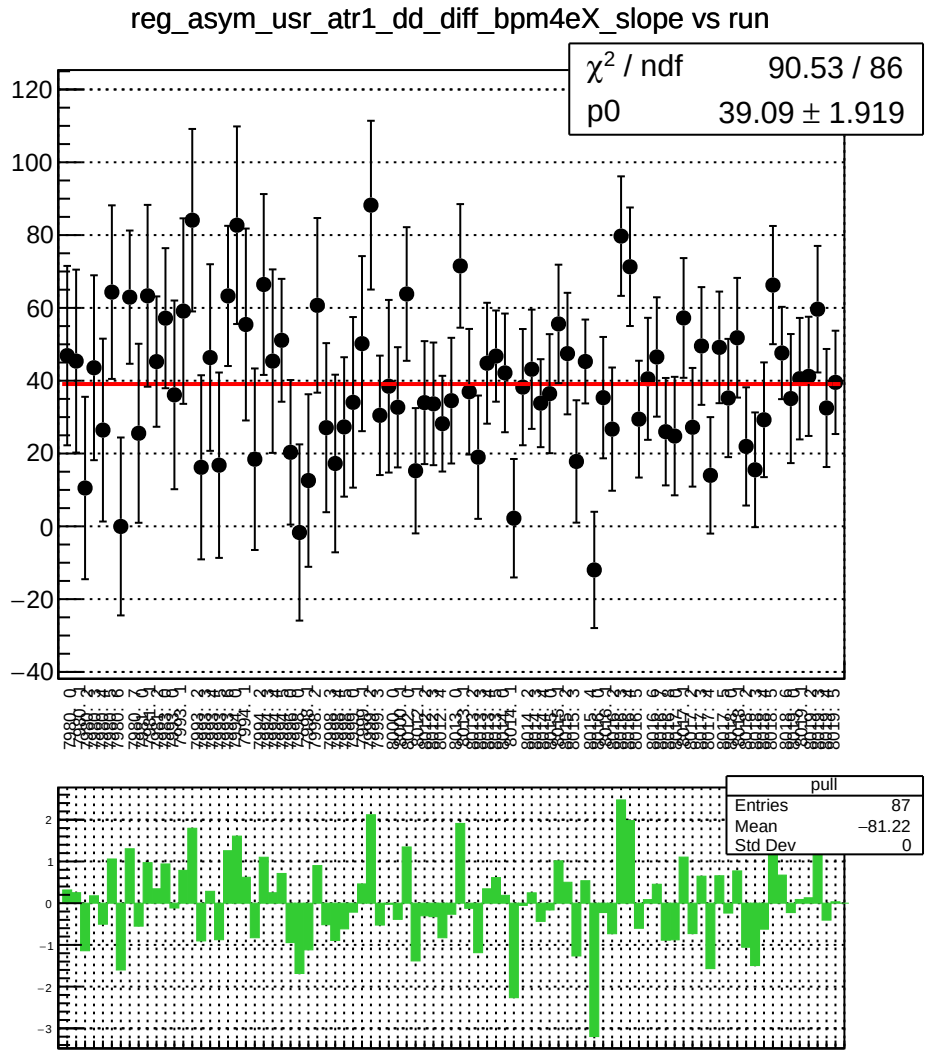

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 900.9 / 86
p0 −43.55 ± 0.1545
pull
Entries 87
Mean 99.42
Std Dev 0

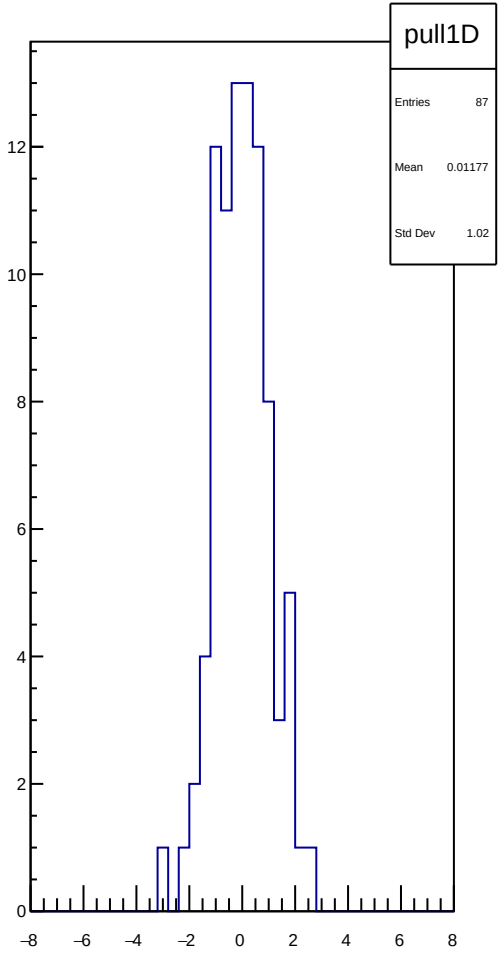

pull1D
Entries 87
Mean −1.168
Std Dev 2.871

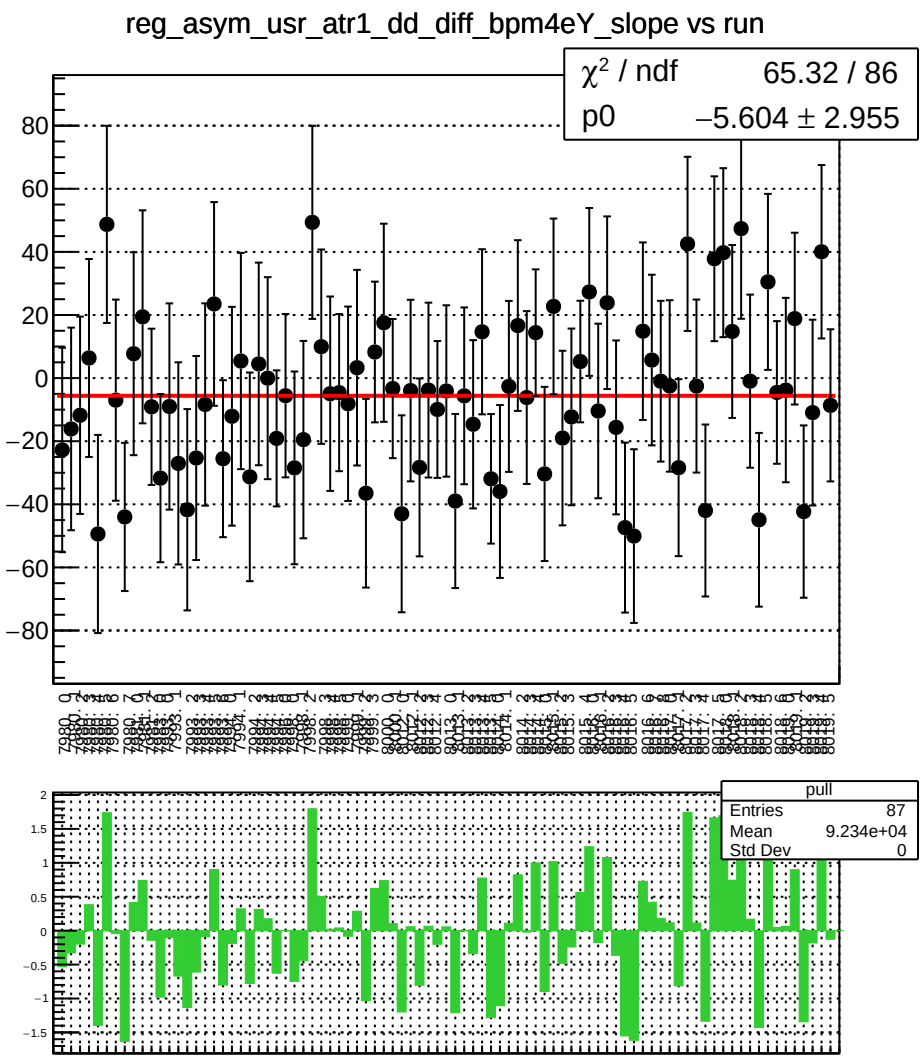

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 92.25 / 86
p0 20.71 ± 1.88
pull
Entries 87
Mean −88.19
Std Dev 0
pull1D
Entries 87
Mean −0.008701
Std Dev 1.03

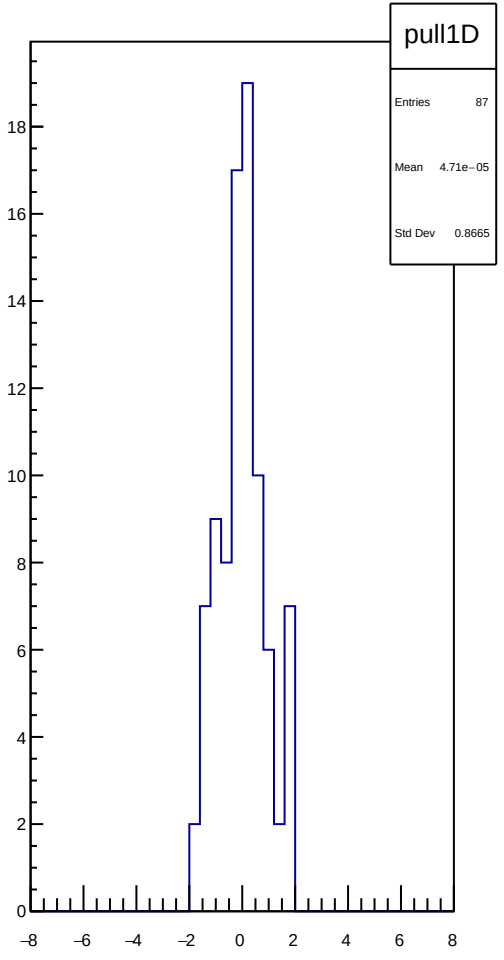

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.98 / 86
p0 9.538 ± 2.715
pull
Entries 87
Mean 2170
Std Dev 0

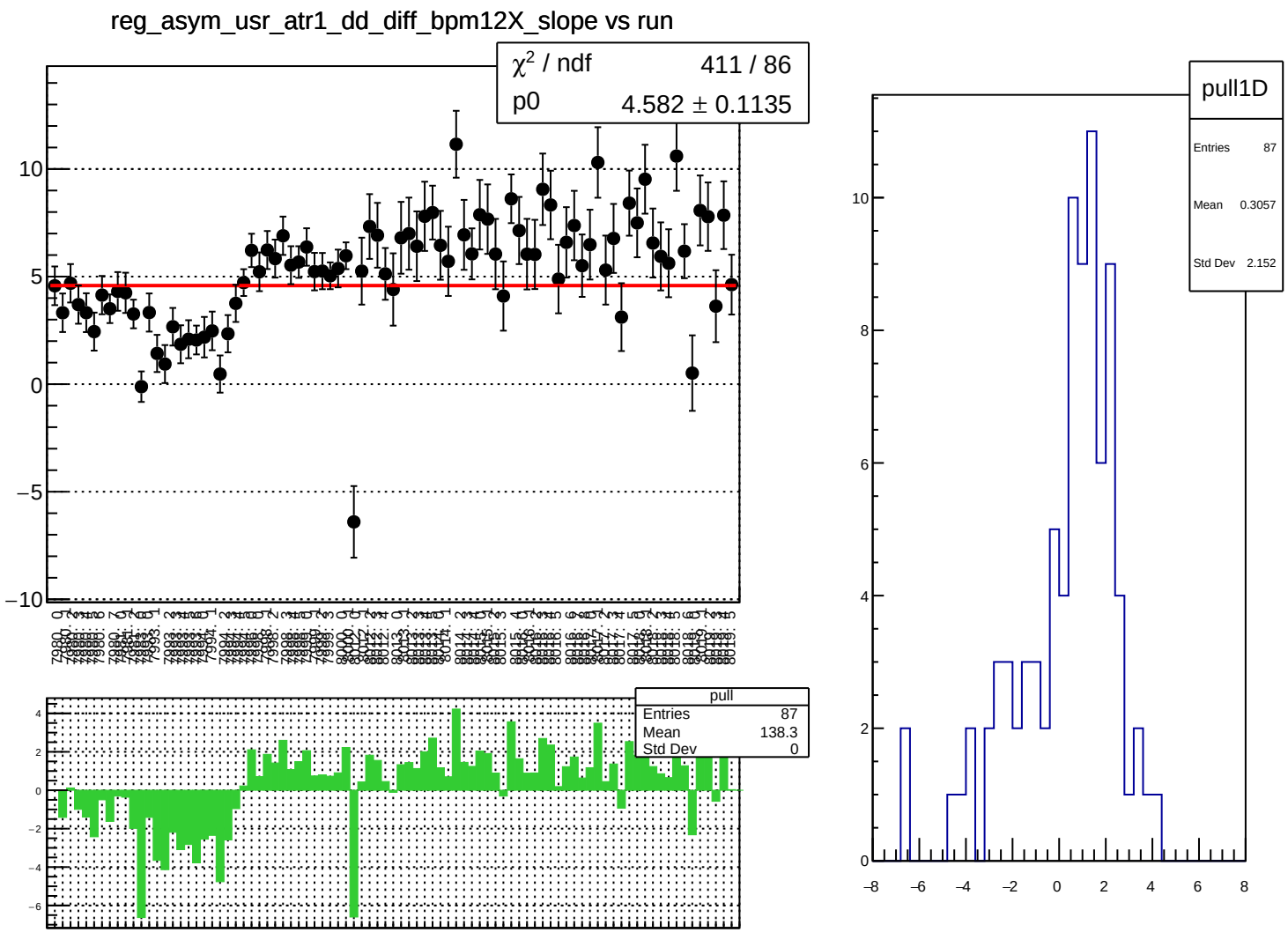

pull1D
Entries 87
Mean −0.001712
Std Dev 0.8709

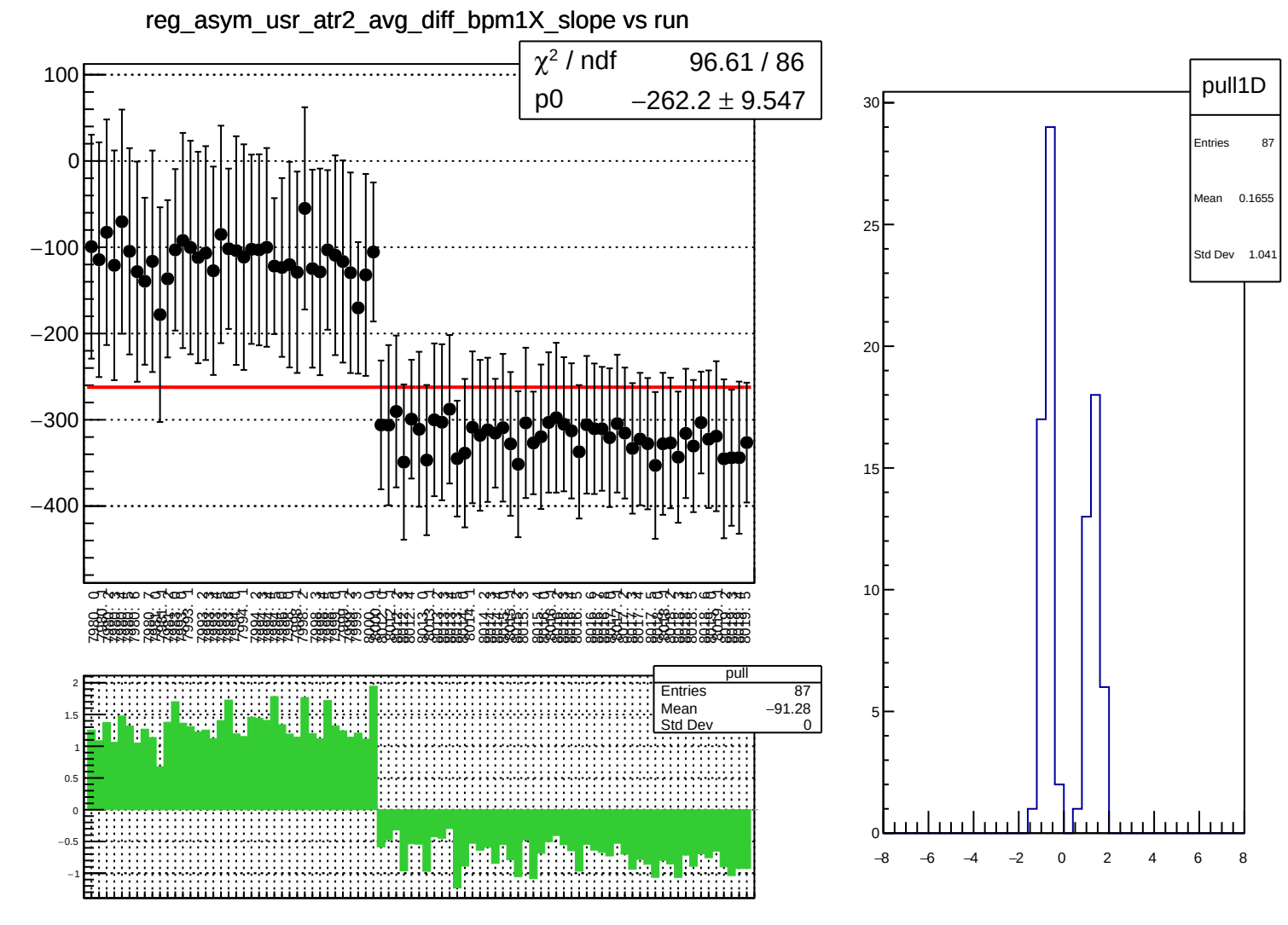

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 90.53 / 86
p0 39.09 ± 1.919
pull
Entries 87
Mean −81.22
Std Dev 0

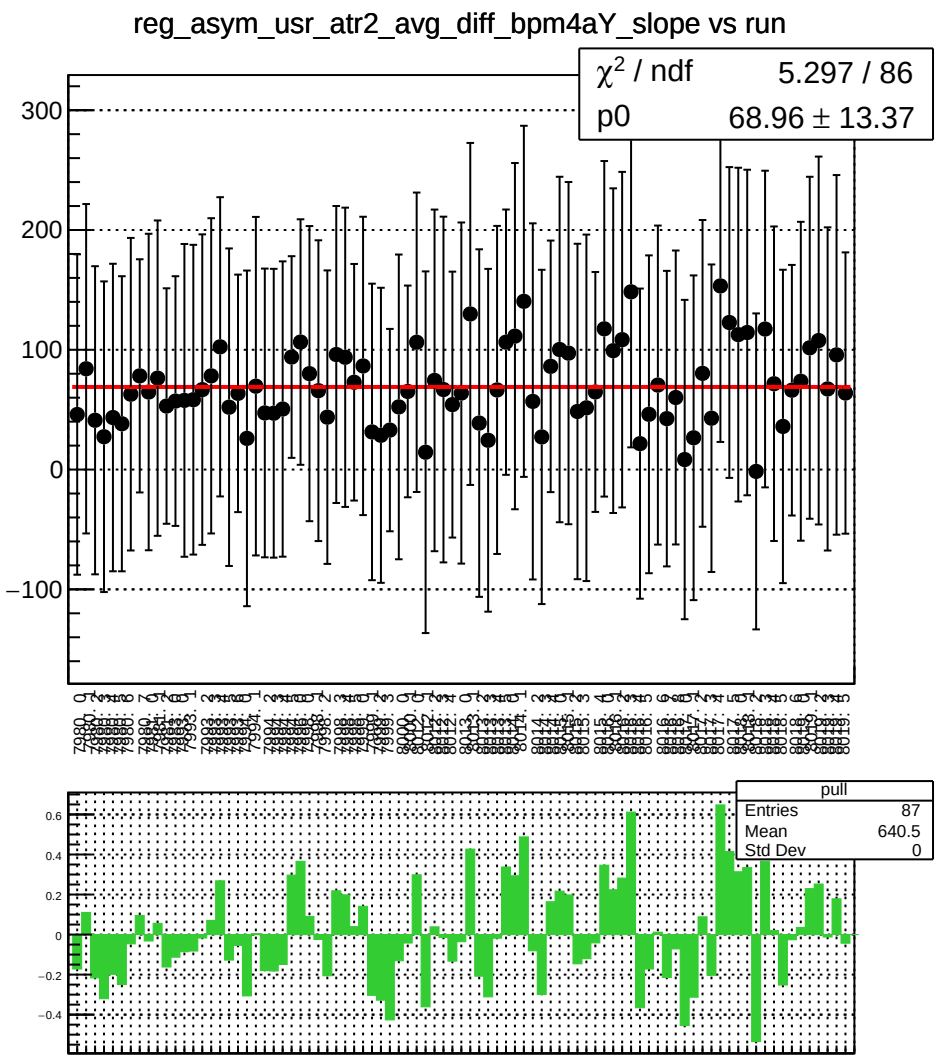

pull1D
Entries 87
Mean 0.01177
Std Dev 1.02

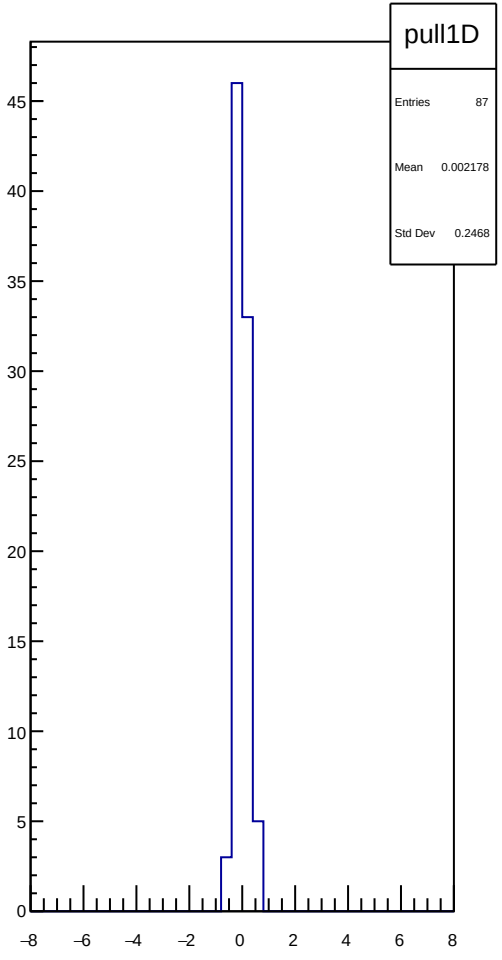

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.32 / 86
p0 −5.604 ± 2.955
pull
Entries 87
Mean 9.234e+04
Std Dev 0

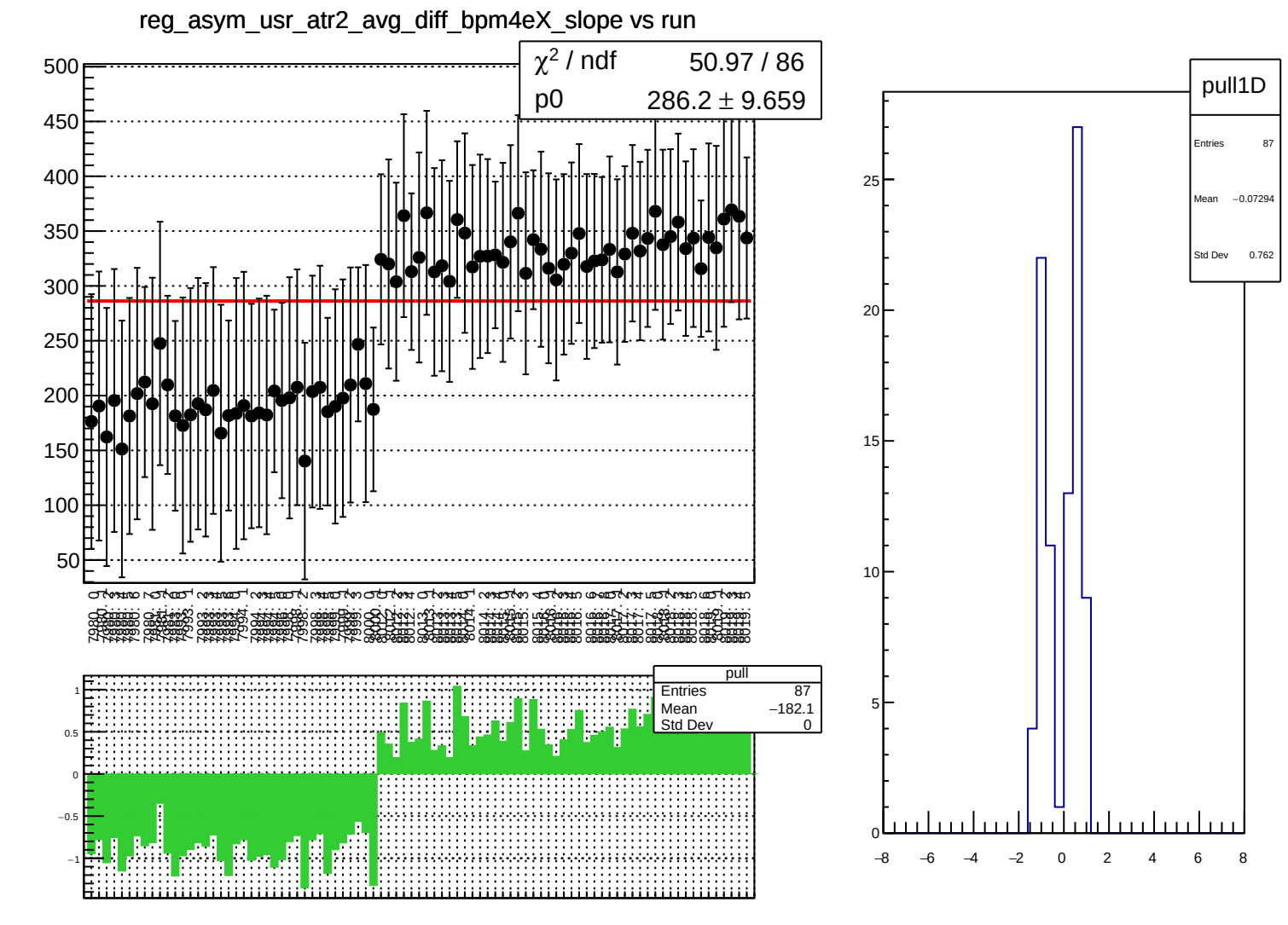

pull1D
Entries 87
Mean 4.71e−05
Std Dev 0.8665

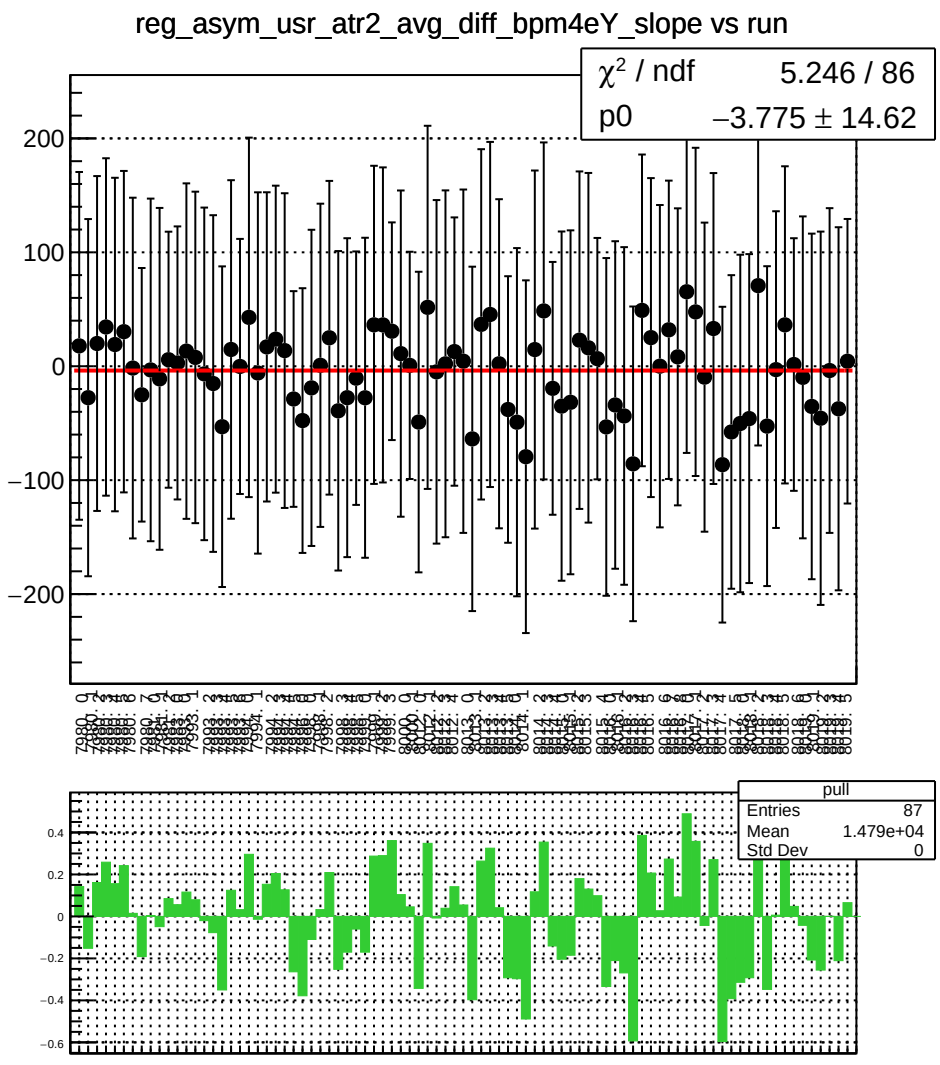

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 411 / 86
p0 4.582 ± 0.1135
pull
Entries 87
Mean 138.3
Std Dev 0
pull1D
Entries 87
Mean 0.3057
Std Dev 2.152

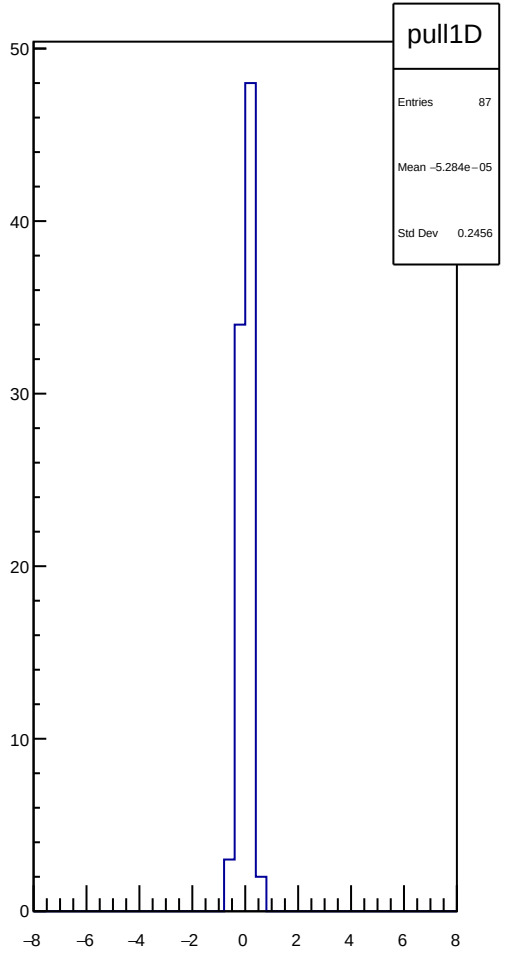

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 96.61 / 86
p0 −262.2 ± 9.547
pull
Entries 87
Mean −91.28
Std Dev 0
pull1D
Entries 87
Mean 0.1655
Std Dev 1.041

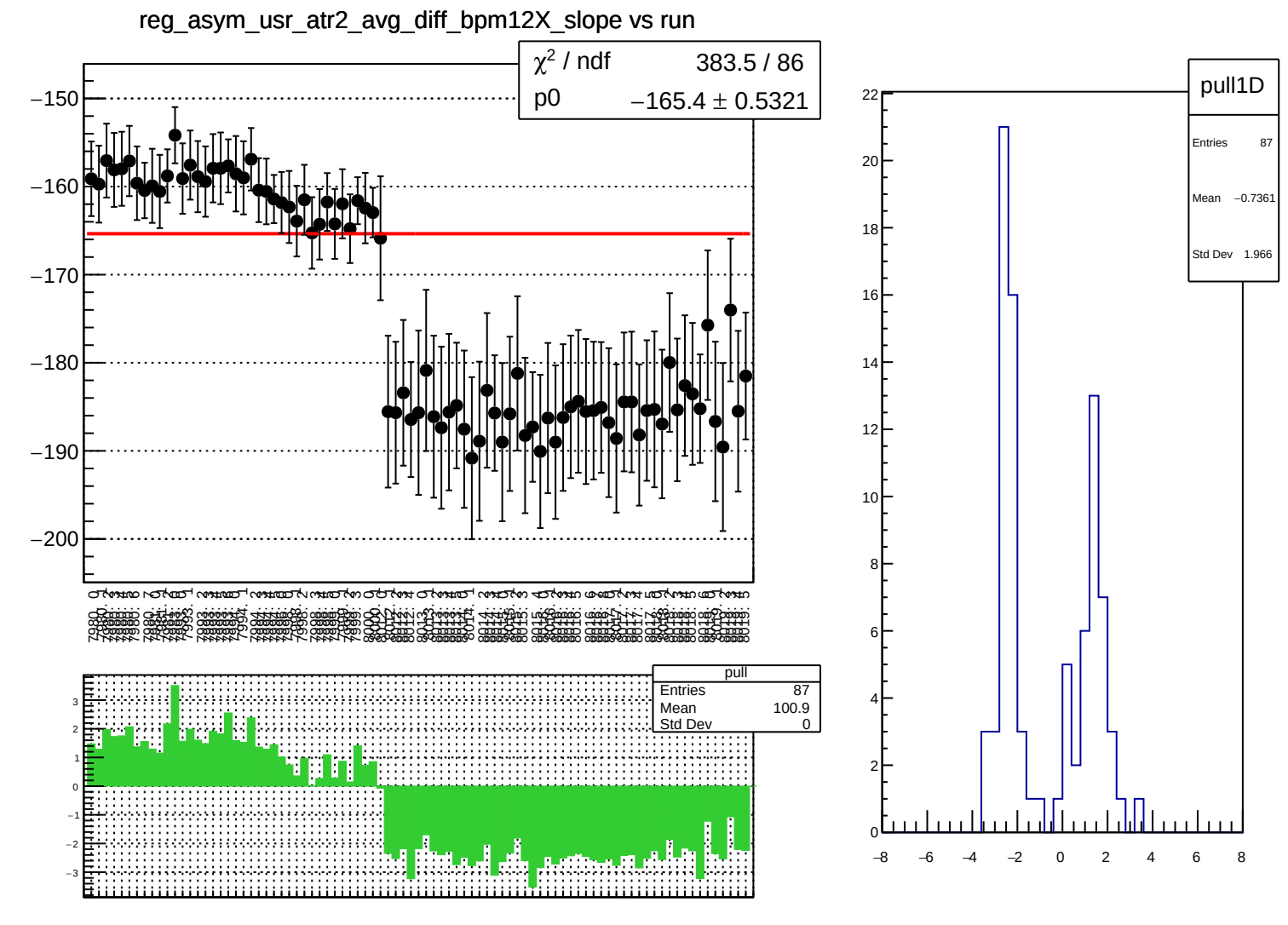

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.297 / 86
p0 68.96 ± 13.37
300
200
100
0
−100
pull
Entries 87
Mean 640.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

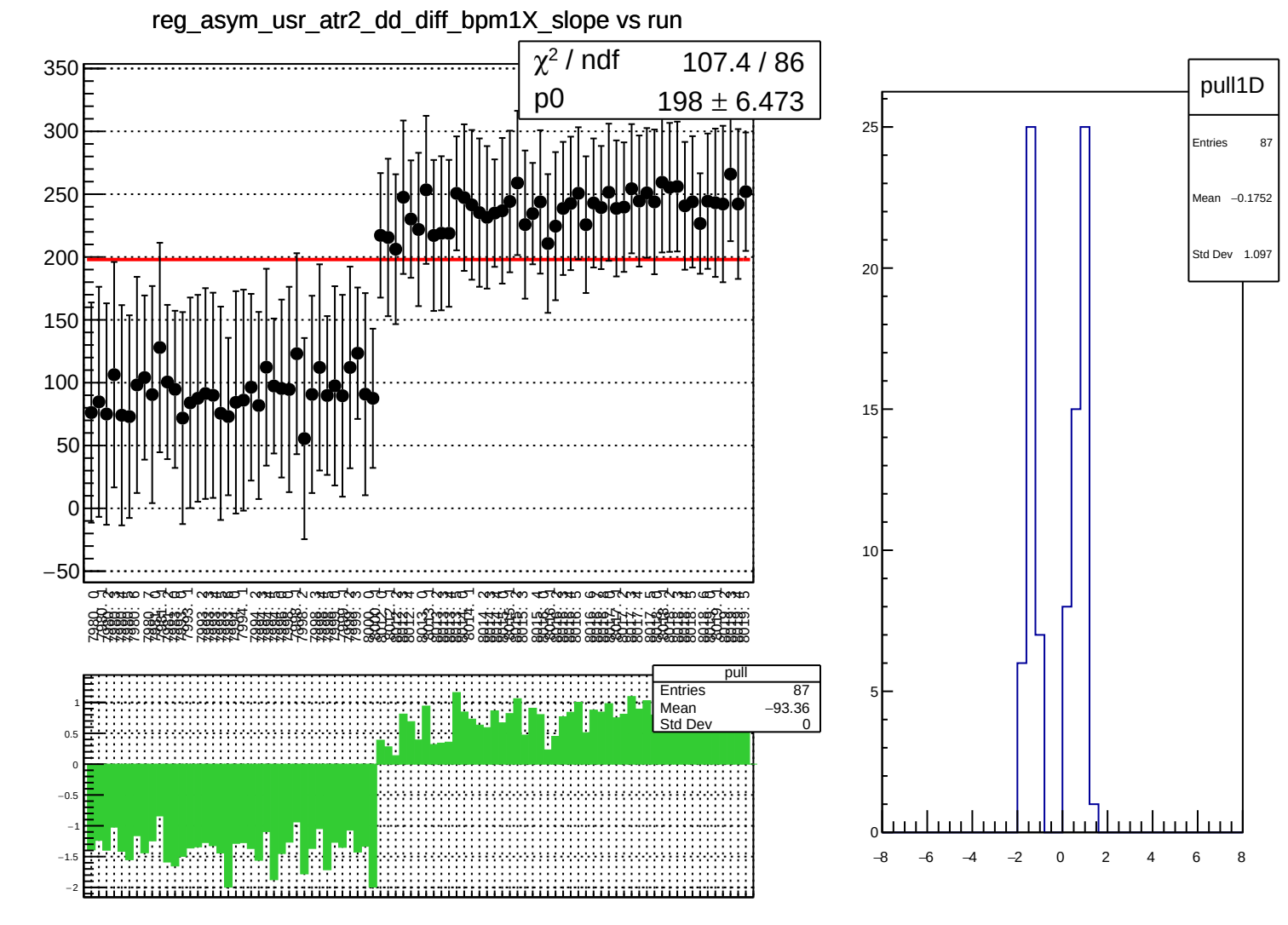

pull1D
Entries 87
Mean 0.002178
Std Dev 0.2468
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

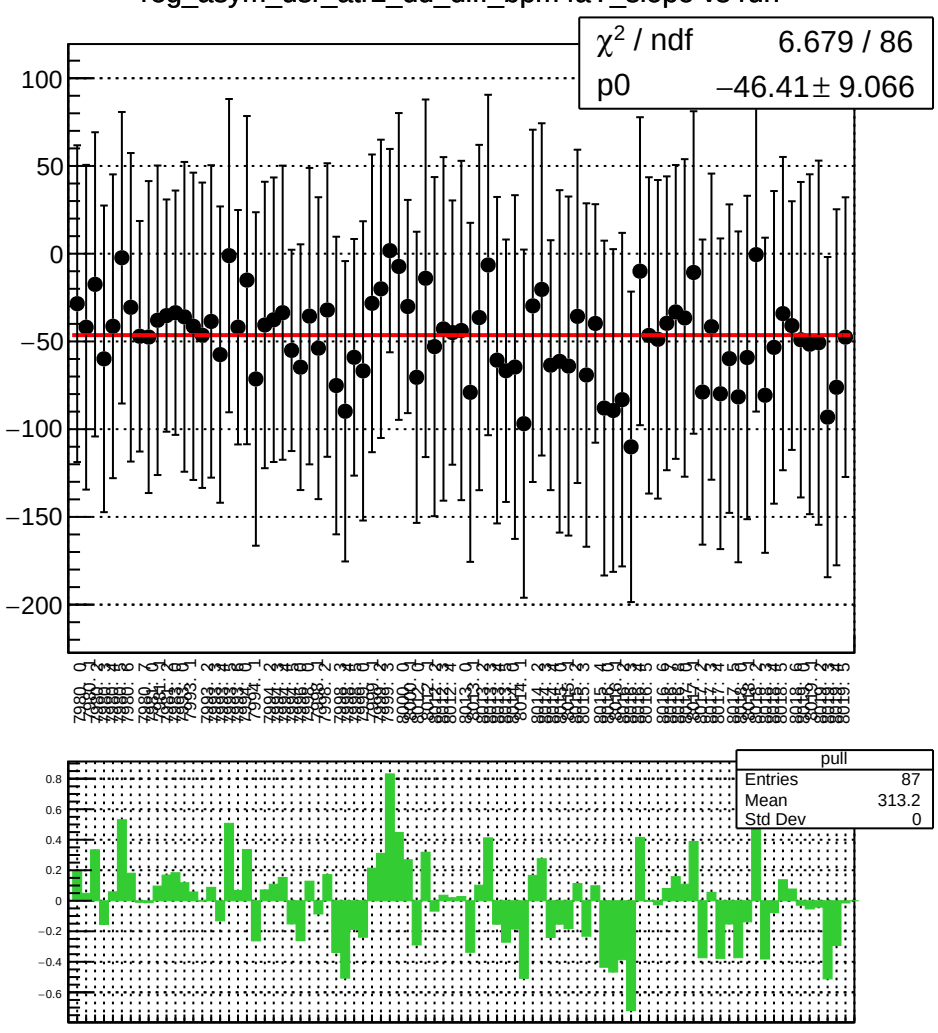

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.97 / 86
p0 286.2 ± 9.659
pull
Entries 87
Mean −182.1
Std Dev 0
pull1D
Entries 87
Mean −0.07294
Std Dev 0.762

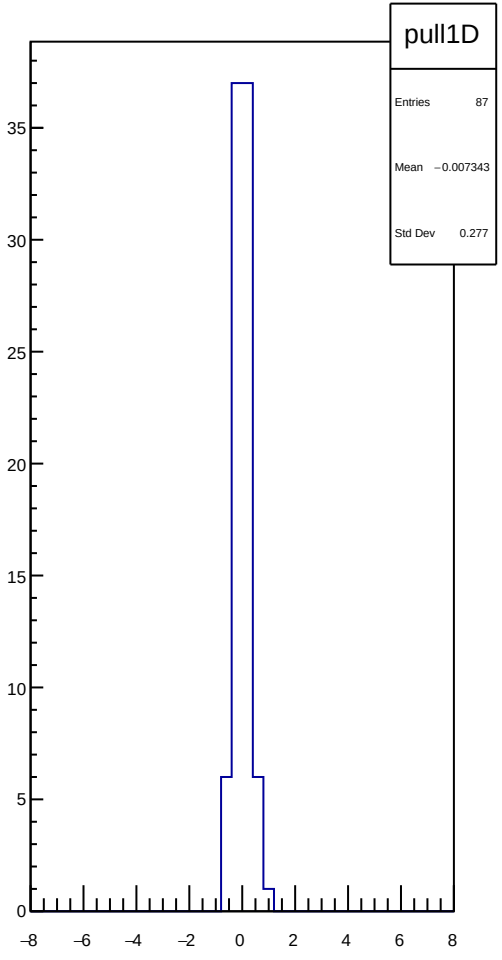

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.246 / 86
p0 −3.775 ± 14.62
200
100
0
−100
−200
pull
Entries 87
Mean 1.479e+04
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

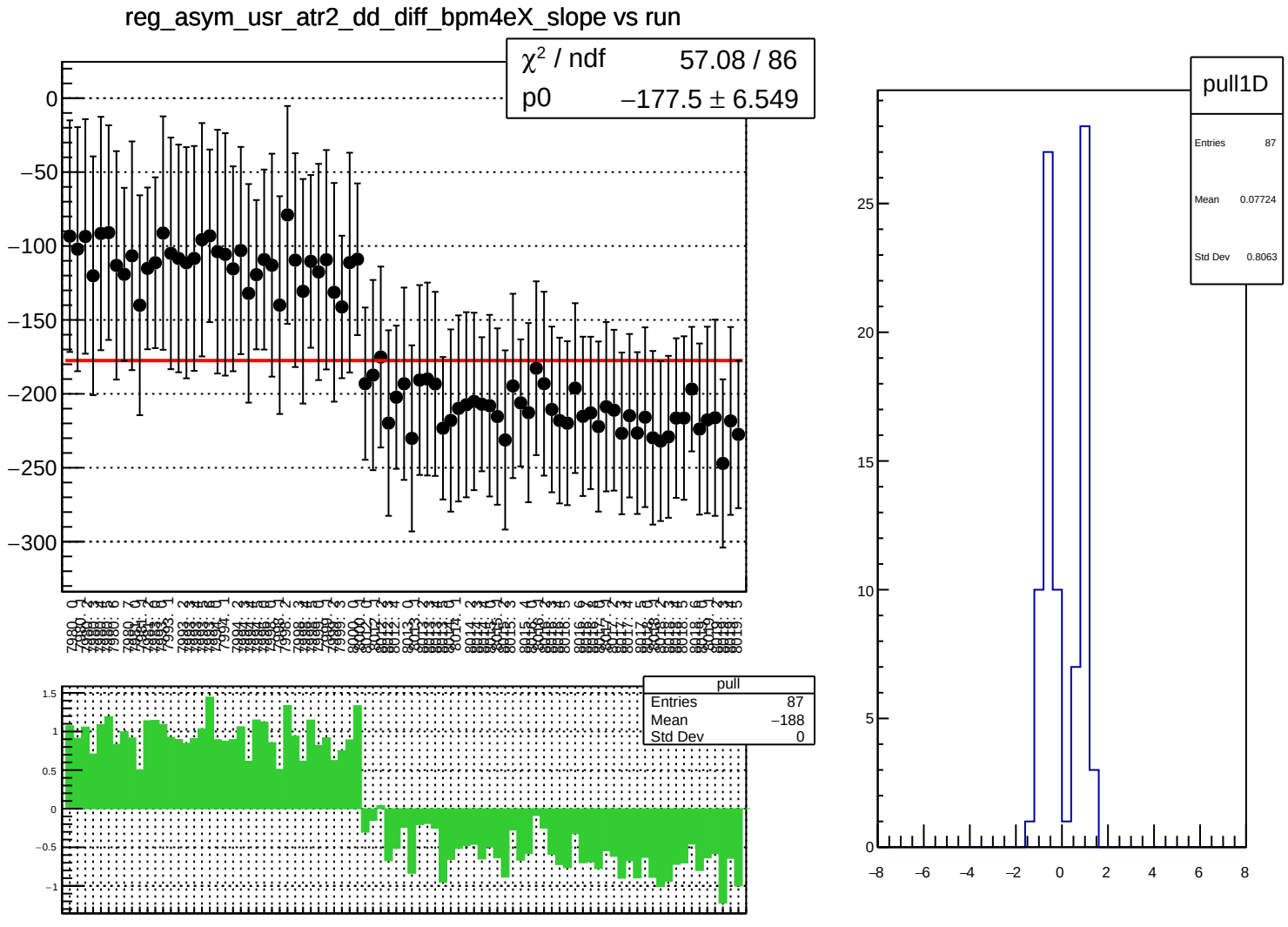

pull1D
Entries 87
Mean −5.284e−05
Std Dev 0.2456
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

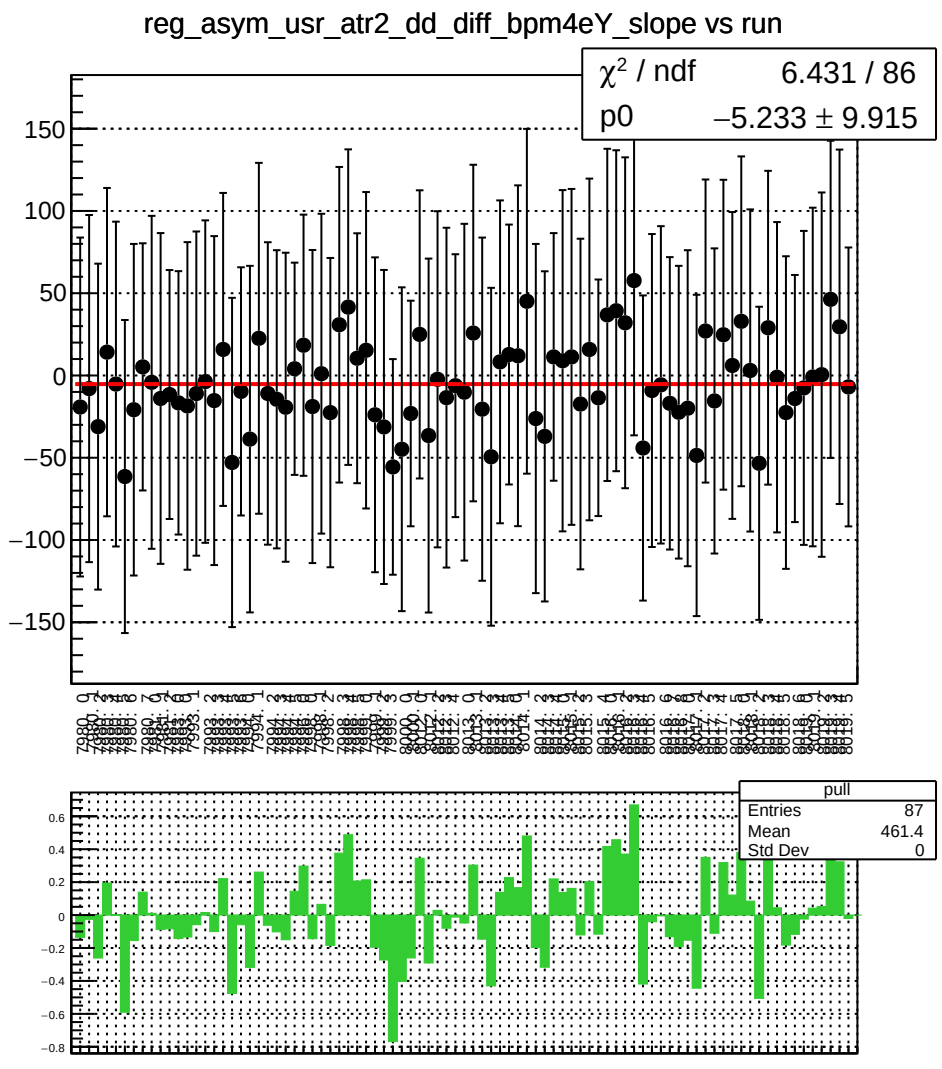

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 383.5 / 86
p0 −165.4 ± 0.5321
pull
Entries 87
Mean 100.9
Std Dev 0
pull1D
Entries 87
Mean −0.7361
Std Dev 1.966

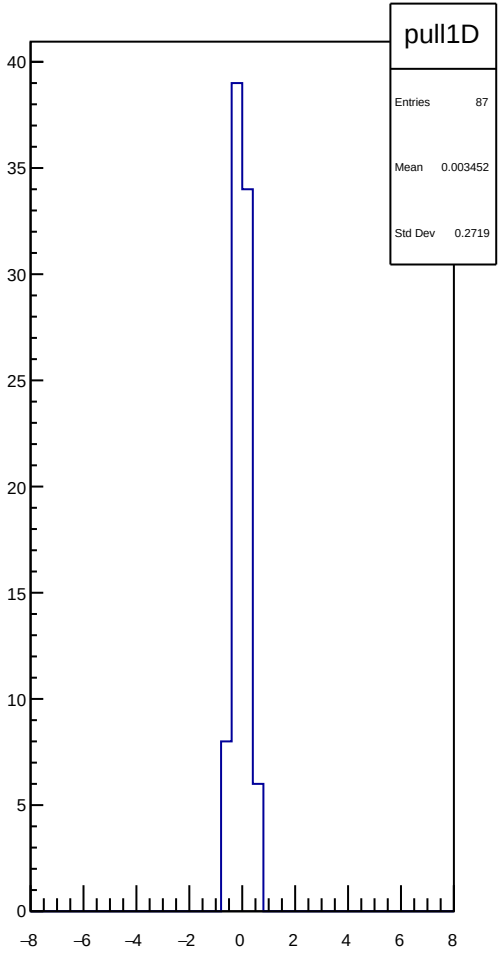

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 107.4 / 86
p0 198 ± 6.473
pull
Entries 87
Mean −93.36
Std Dev 0
pull1D
Entries 87
Mean −0.1752
Std Dev 1.097

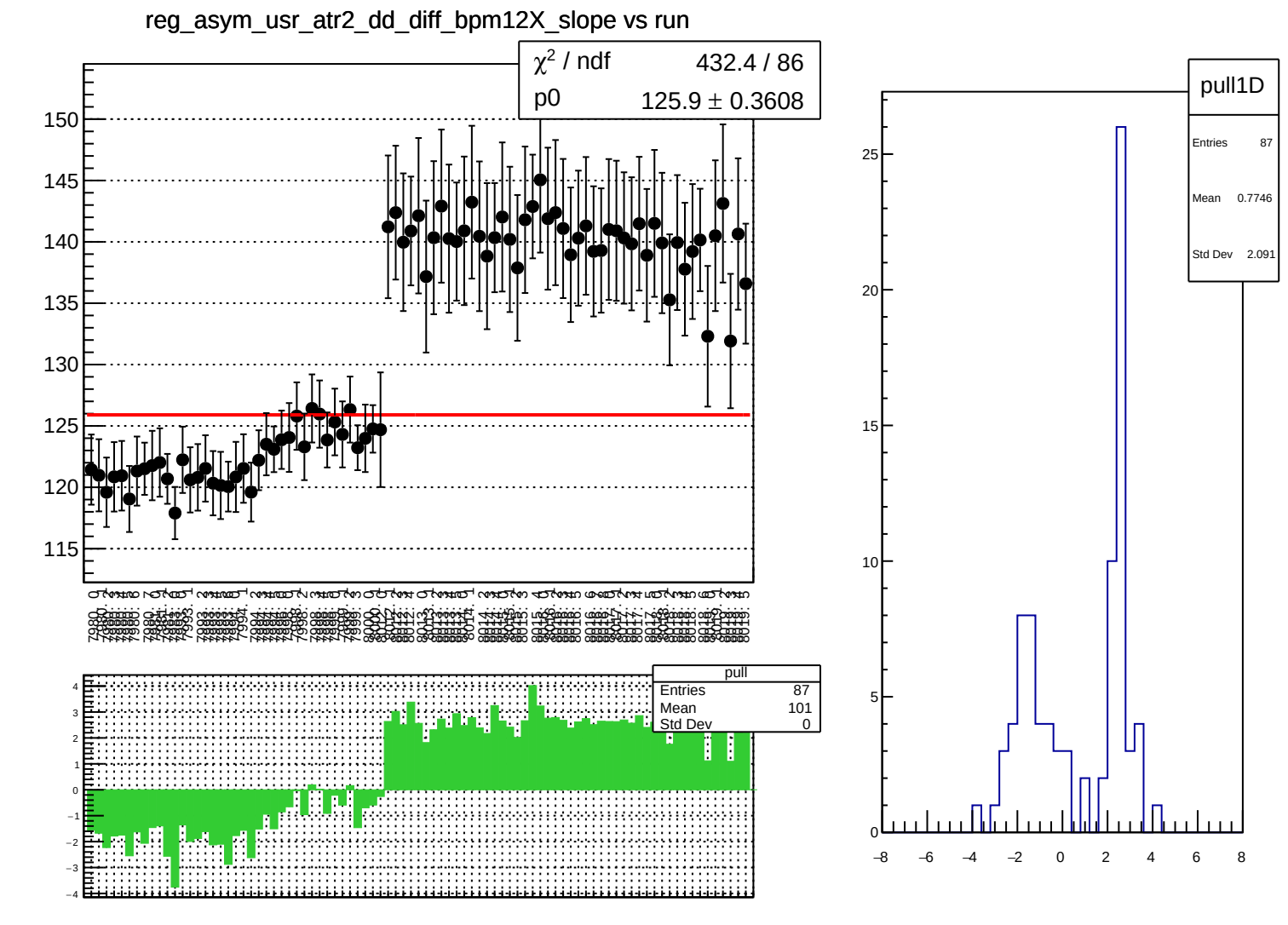

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.679 / 86
p0 −46.41 ± 9.066
pull
Entries 87
Mean 313.2
Std Dev 0

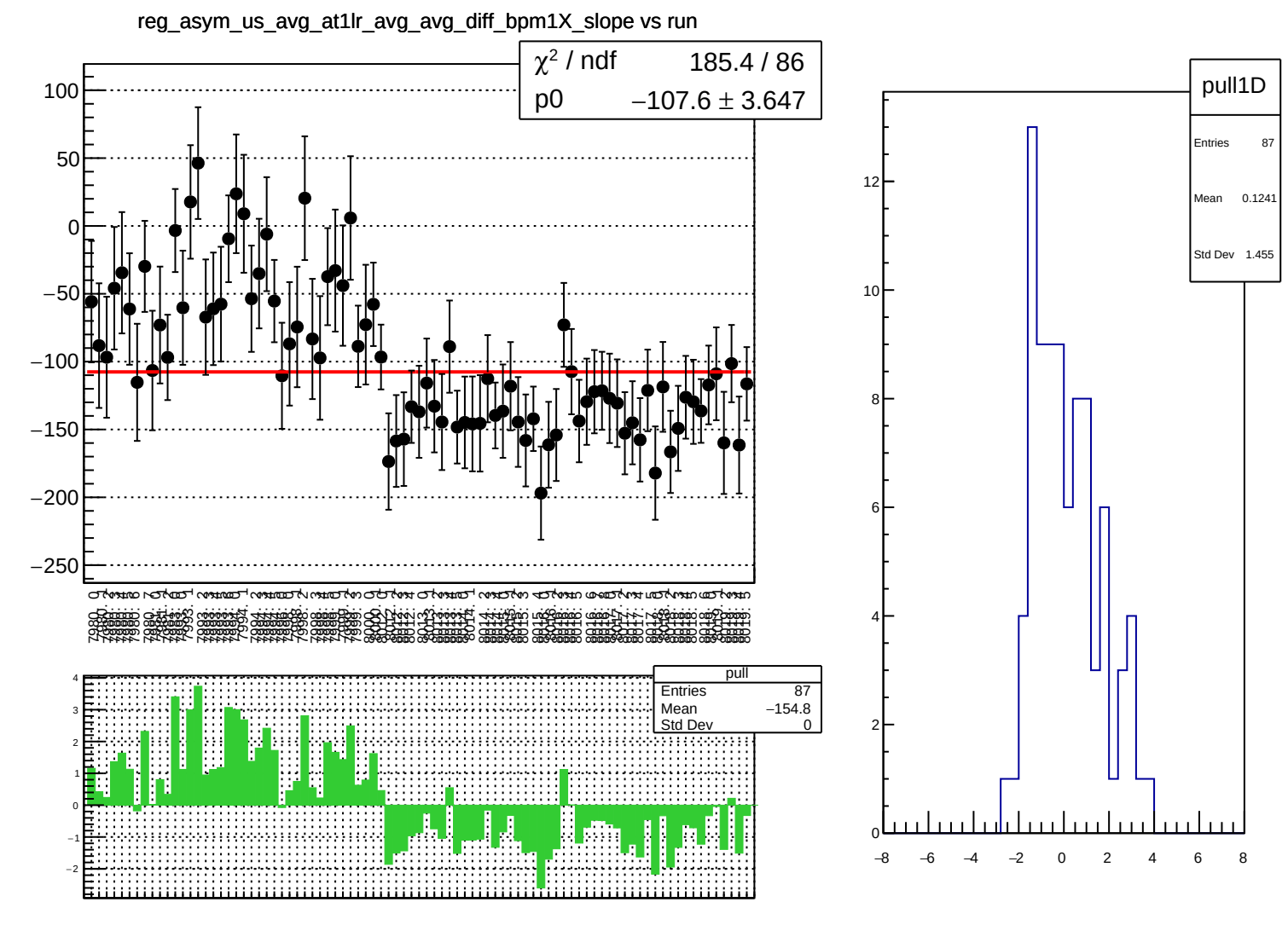

pull1D
Entries 87
Mean −0.007343
Std Dev 0.277

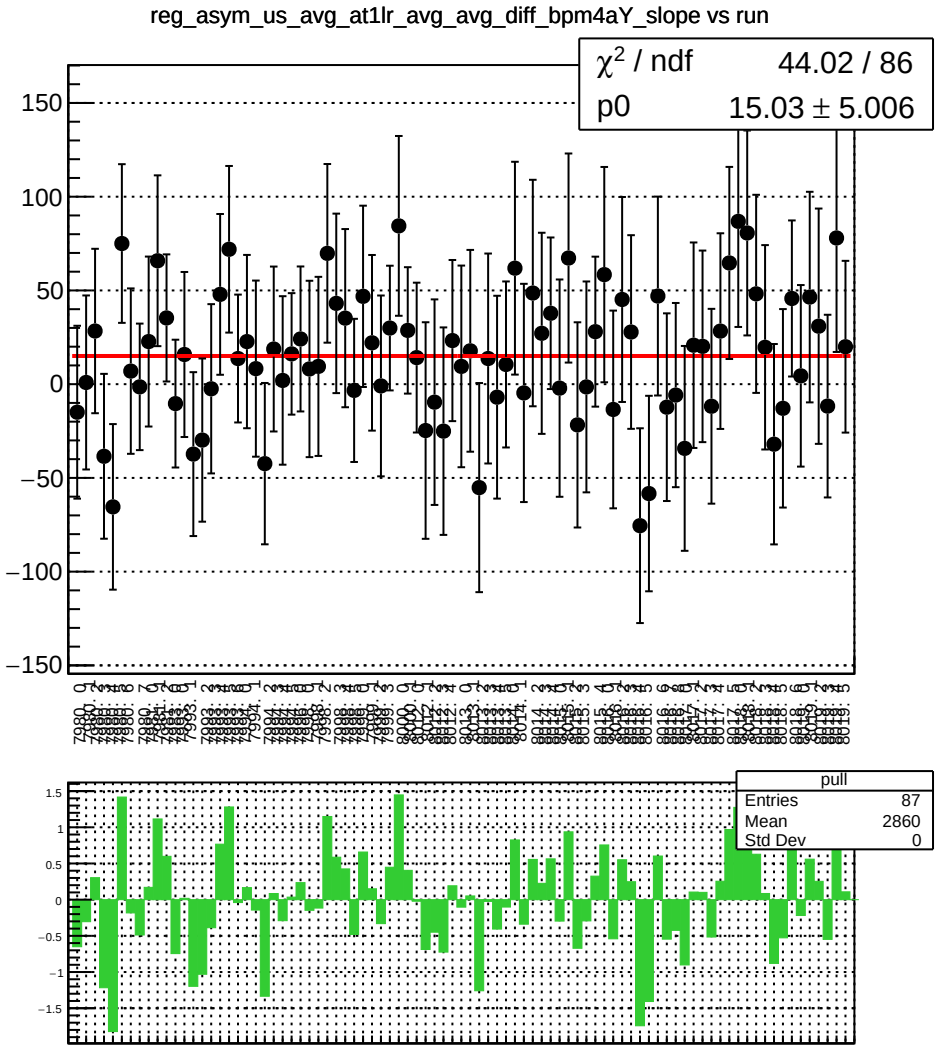

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.08 / 86
p0 −177.5 ± 6.549
pull
Entries 87
Mean −188
Std Dev 0
pull1D
Entries 87
Mean 0.07724
Std Dev 0.8063

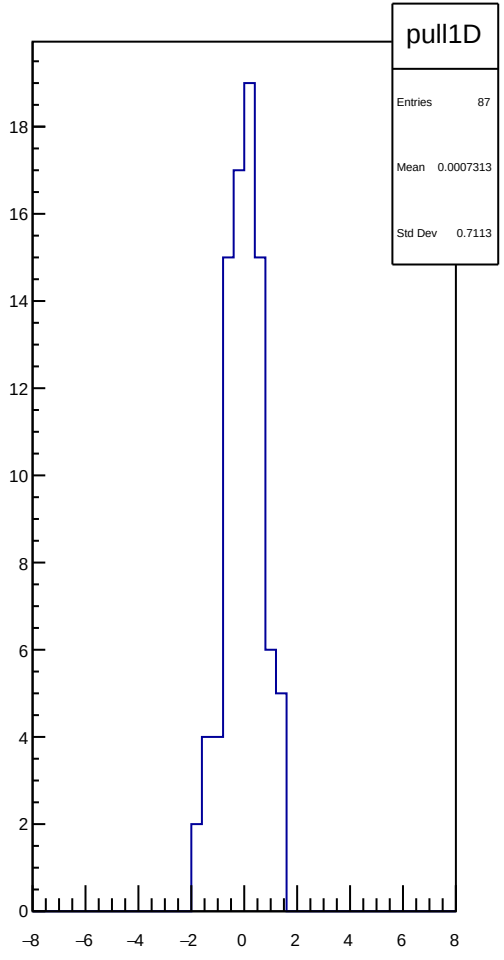

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.431 / 86
p0 −5.233 ± 9.915
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 461.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

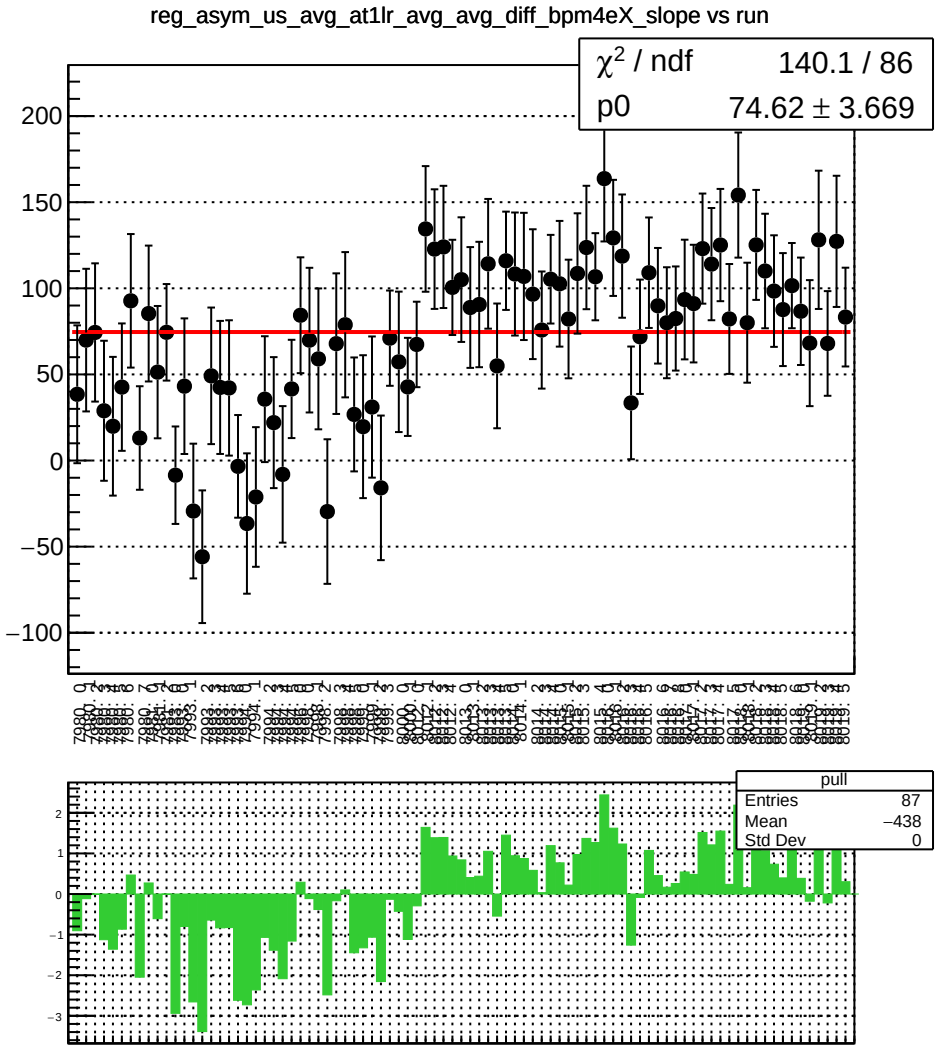

pull1D
Entries 87
Mean 0.003452
Std Dev 0.2719
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

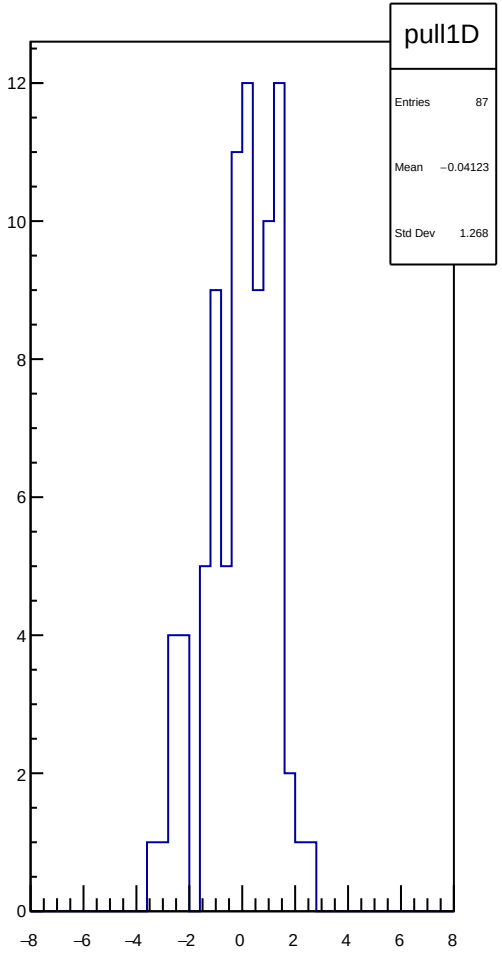

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 432.4 / 86
p0 125.9 ± 0.3608
150
145
140
135
130
125
120
115
pull
Entries 87
Mean 101
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 87
Mean 0.7746
Std Dev 2.091
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

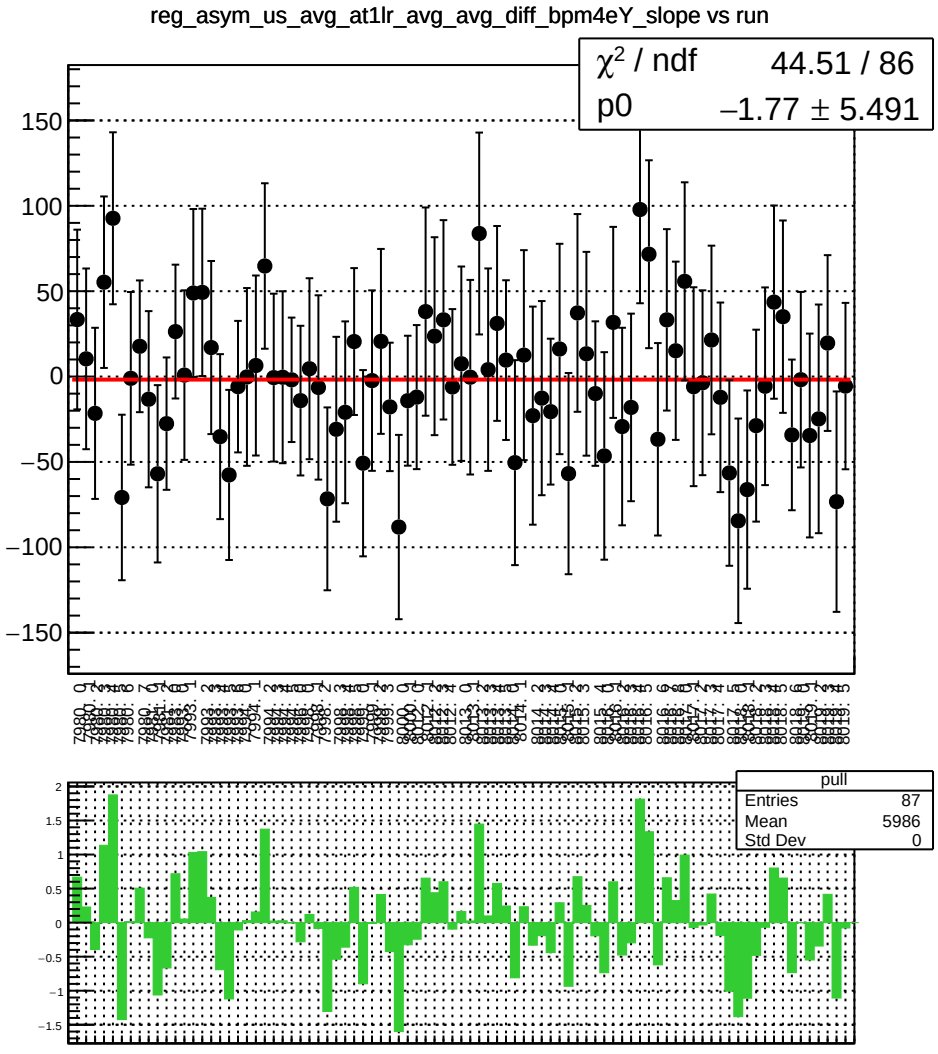

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 185.4 / 86
p0 −107.6 ± 3.647
pull
Entries 87
Mean −154.8
Std Dev 0
pull1D
Entries 87
Mean 0.1241
Std Dev 1.455

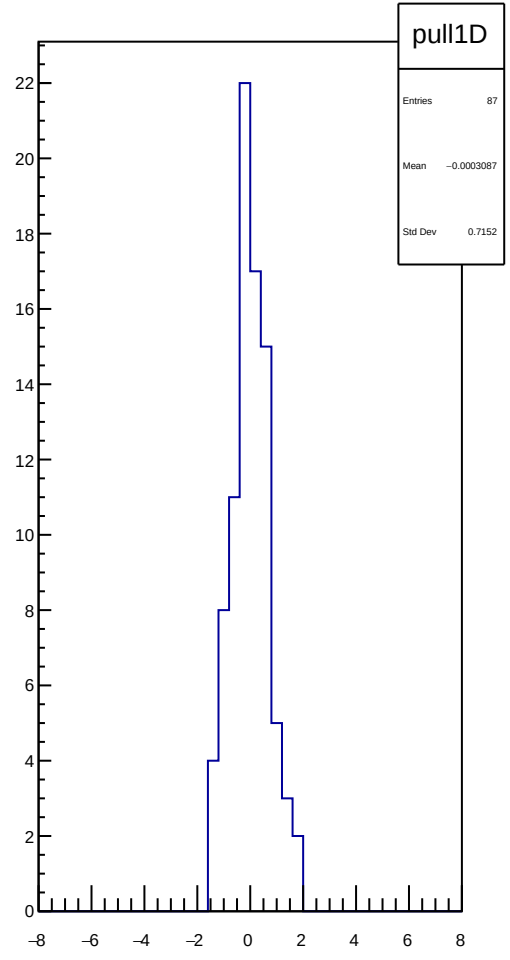

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.02 / 86
p0 15.03 ± 5.006
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 2860
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

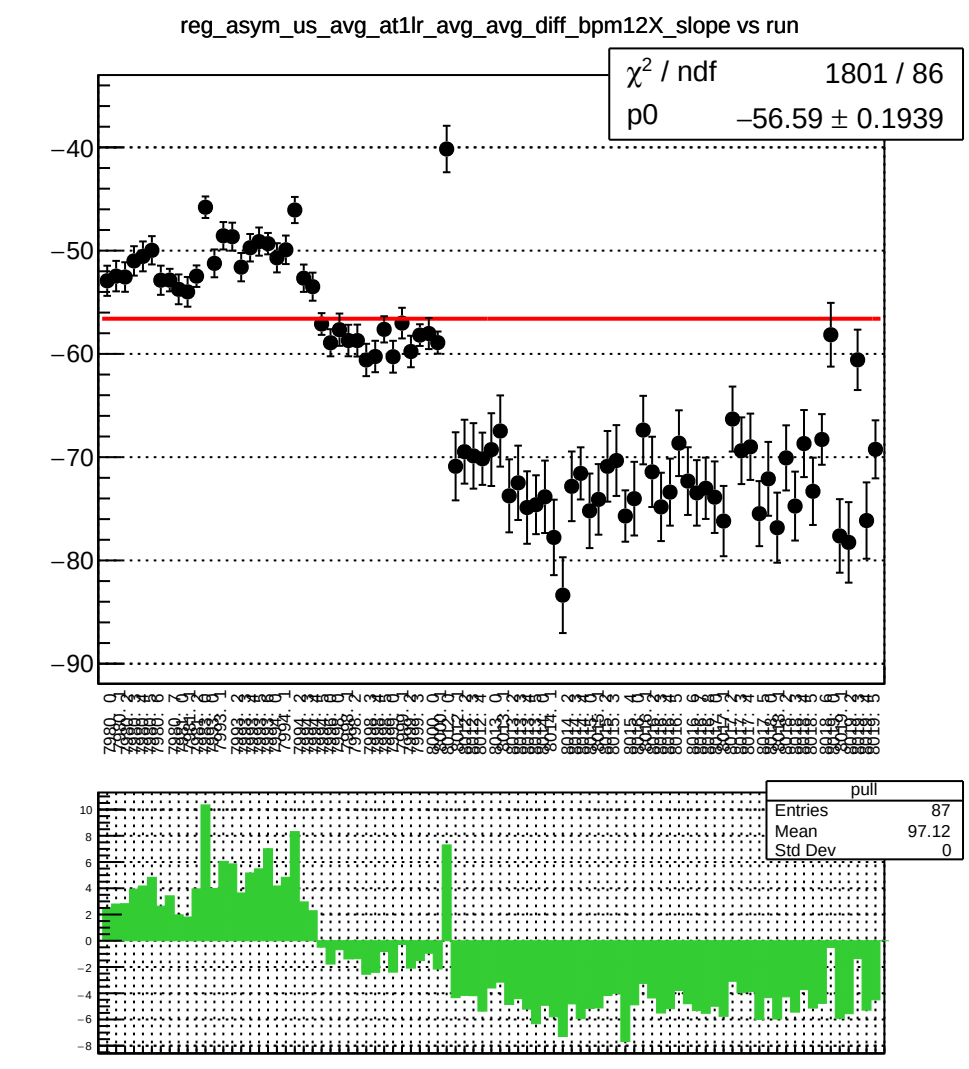

pull1D
Entries 87
Mean 0.0007313
Std Dev 0.7113
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

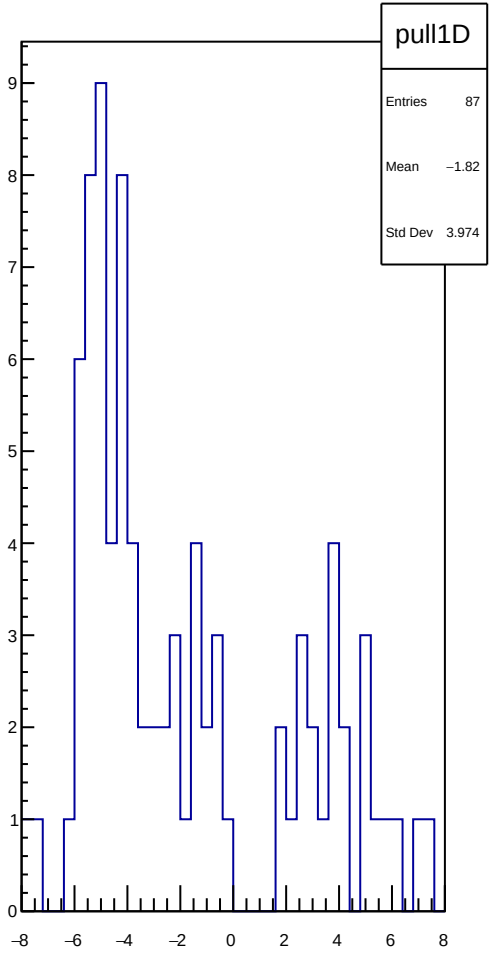

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 140.1 / 86
p0 74.62 ± 3.669
pull
Entries 87
Mean −438
Std Dev 0

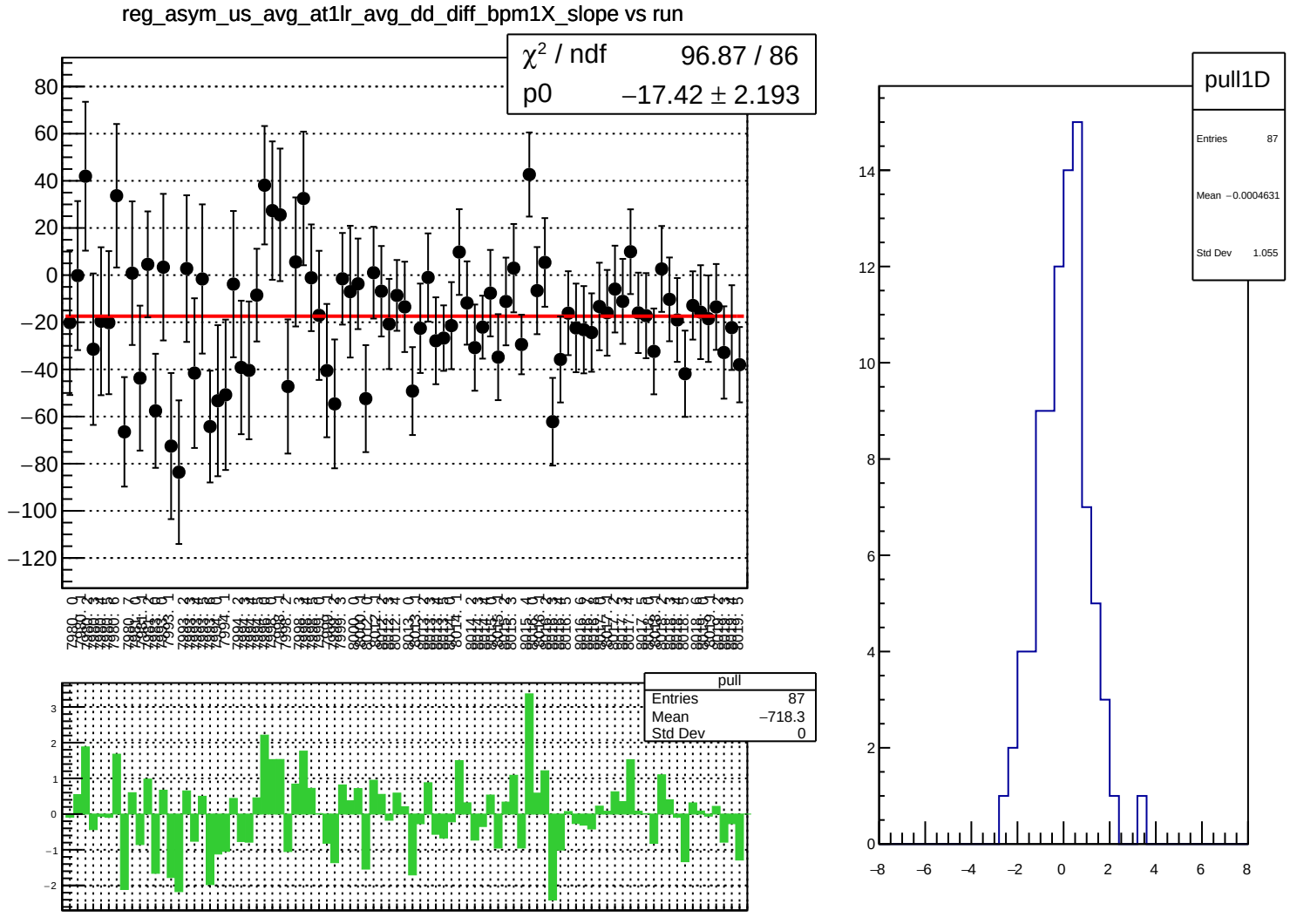

pull1D
Entries 87
Mean −0.04123
Std Dev 1.268

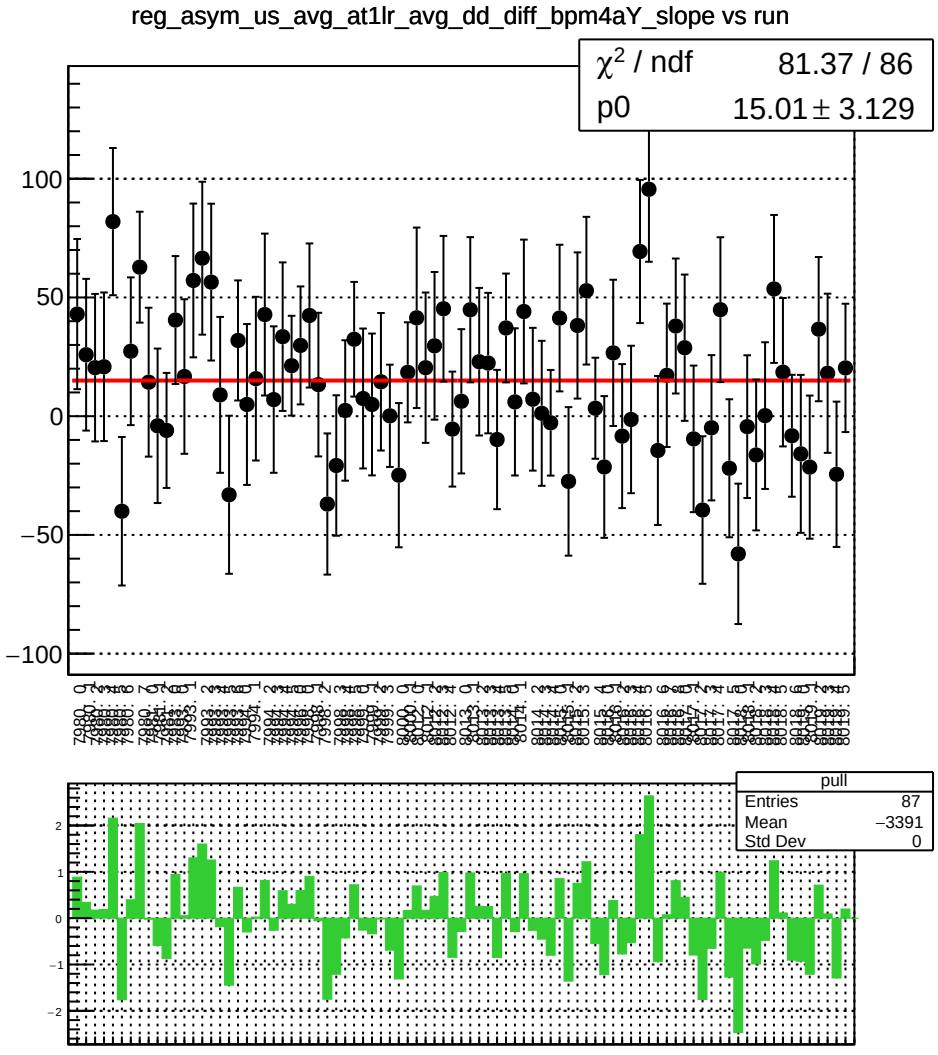

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.51 / 86
p0 −1.77 ± 5.491
pull
Entries 87
Mean 5986
Std Dev 0

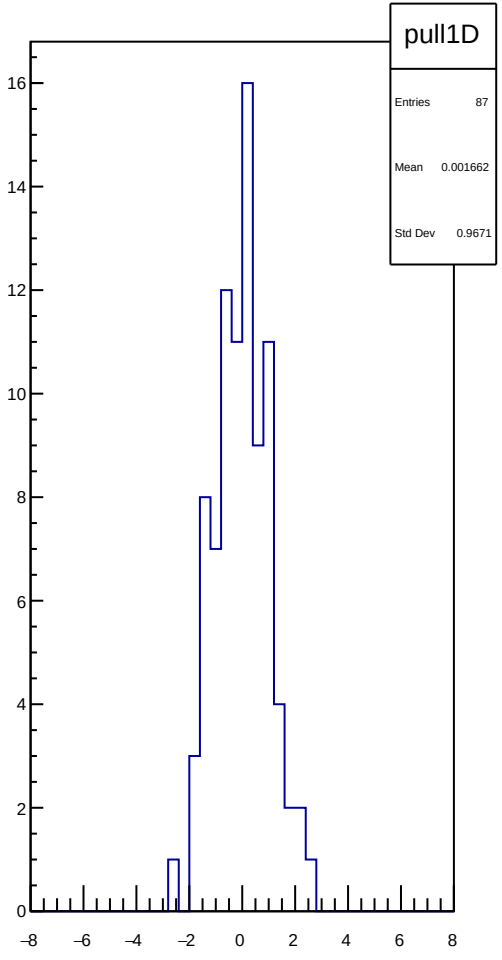

pull1D
Entries 87
Mean −0.0003087
Std Dev 0.7152

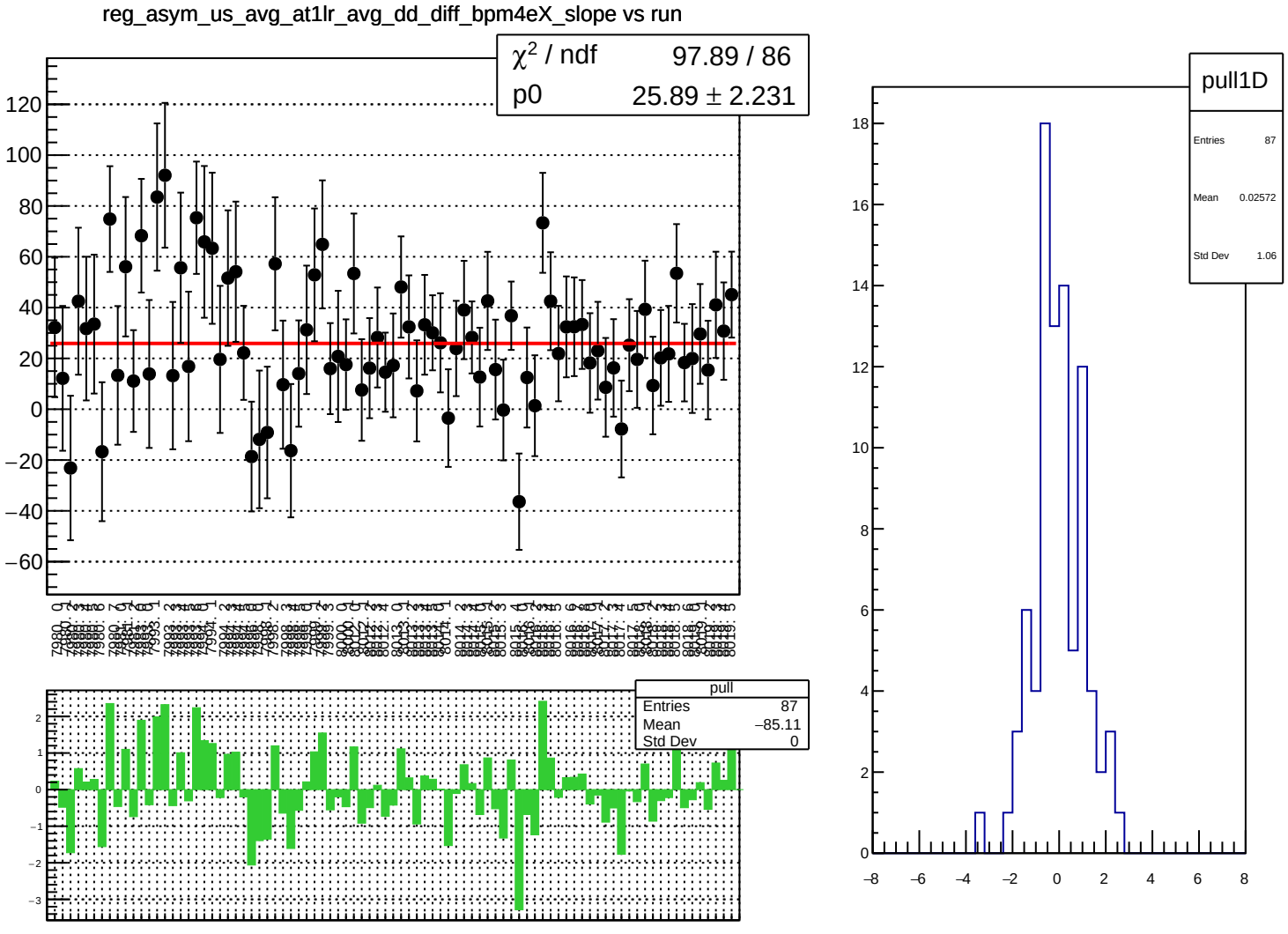

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1801 / 86
p0 −56.59 ± 0.1939
pull
Entries 87
Mean 97.12
Std Dev 0

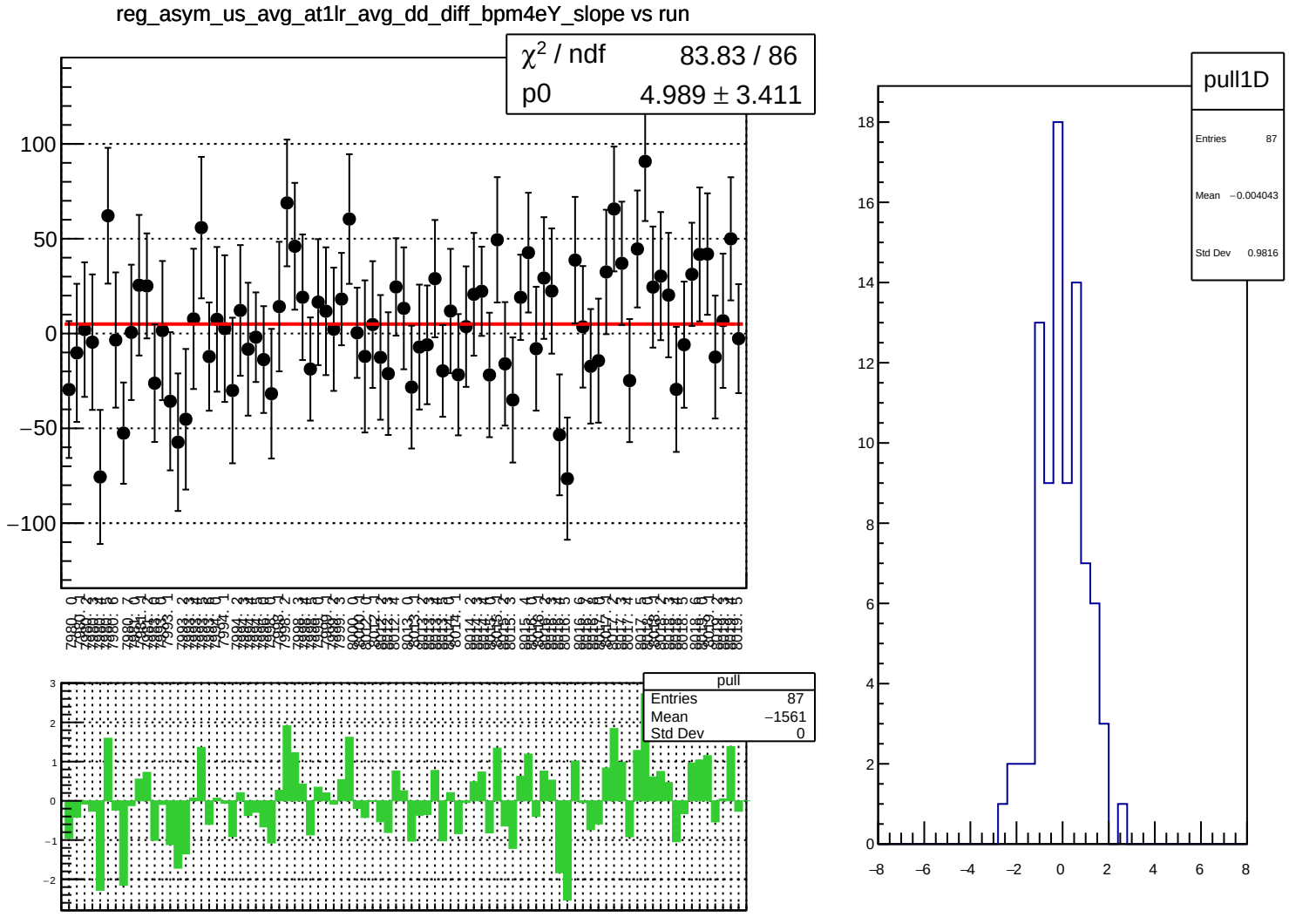

pull1D
Entries 87
Mean −1.82
Std Dev 3.974

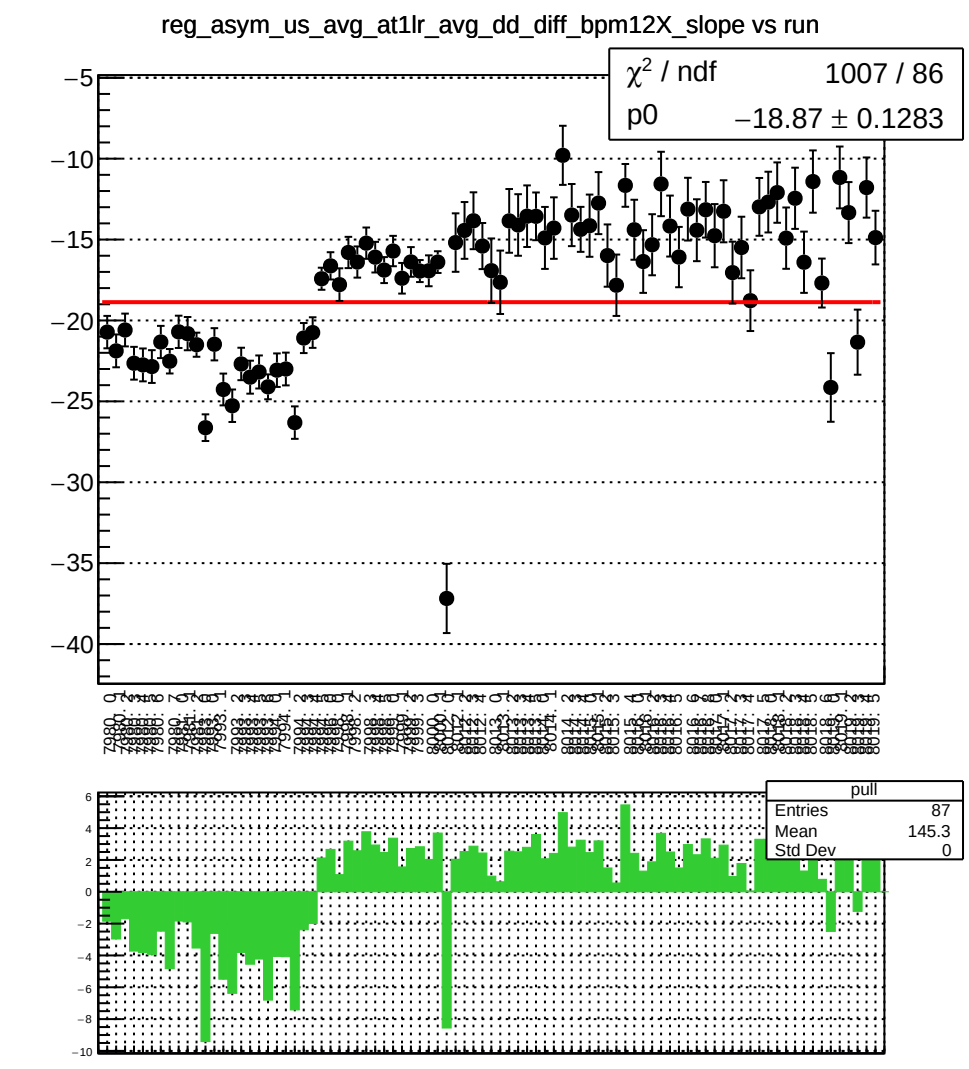

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 96.87 / 86
p0 −17.42 ± 2.193
pull
Entries 87
Mean −718.3
Std Dev 0
pull1D
Entries 87
Mean −0.0004631
Std Dev 1.055

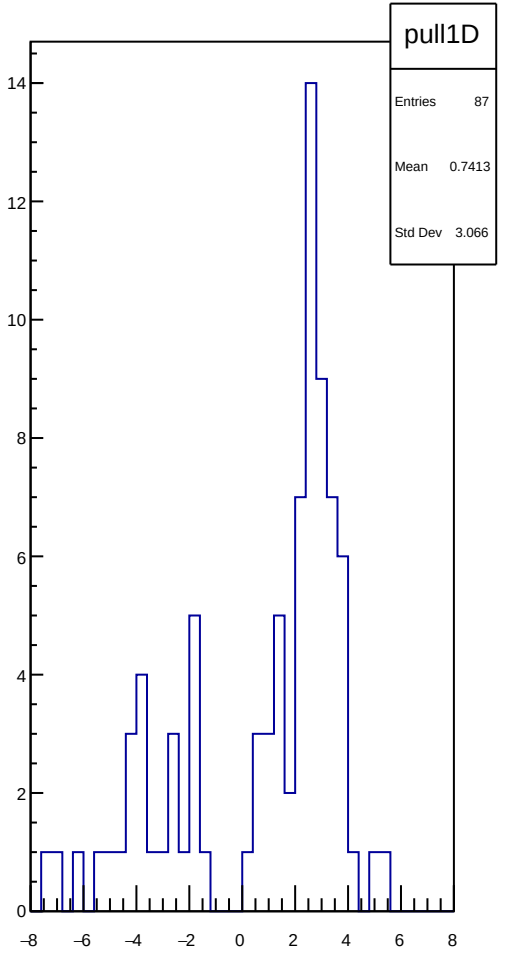

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.37 / 86
p0 15.01 ± 3.129
100
50
0
−50
−100
pull
Entries 87
Mean −3391
Std Dev 0
2
1
0
−1
−2

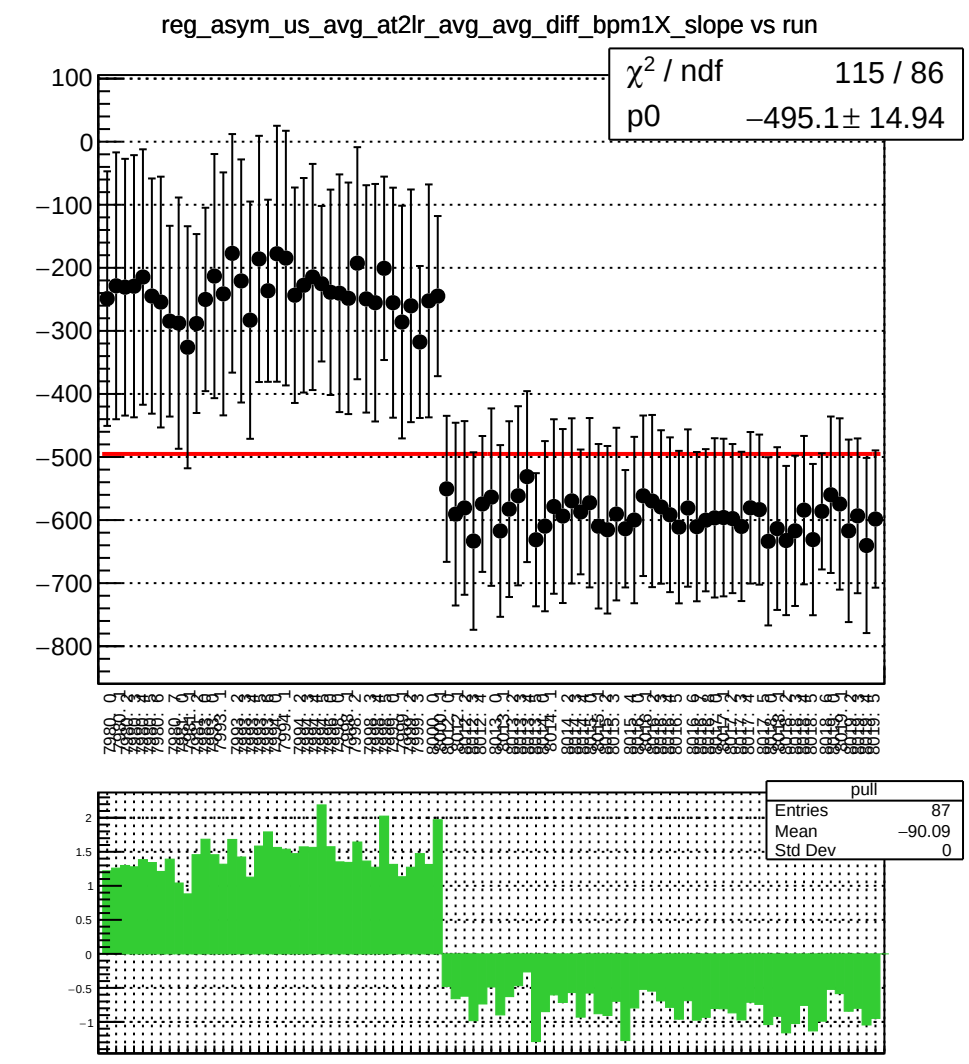

pull1D
Entries 87
Mean 0.001662
Std Dev 0.9671
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

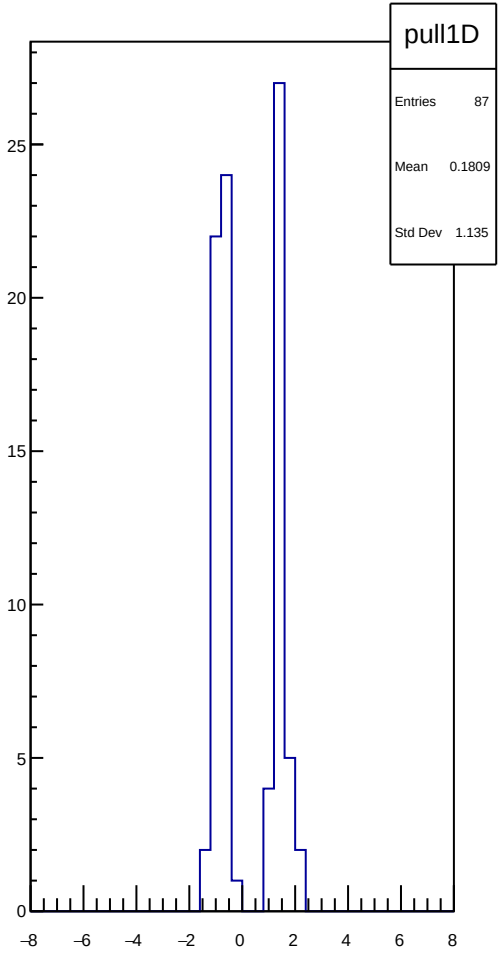

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 97.89 / 86
p0 25.89 ± 2.231
pull
Entries 87
Mean −85.11
Std Dev 0
pull1D
Entries 87
Mean 0.02572
Std Dev 1.06

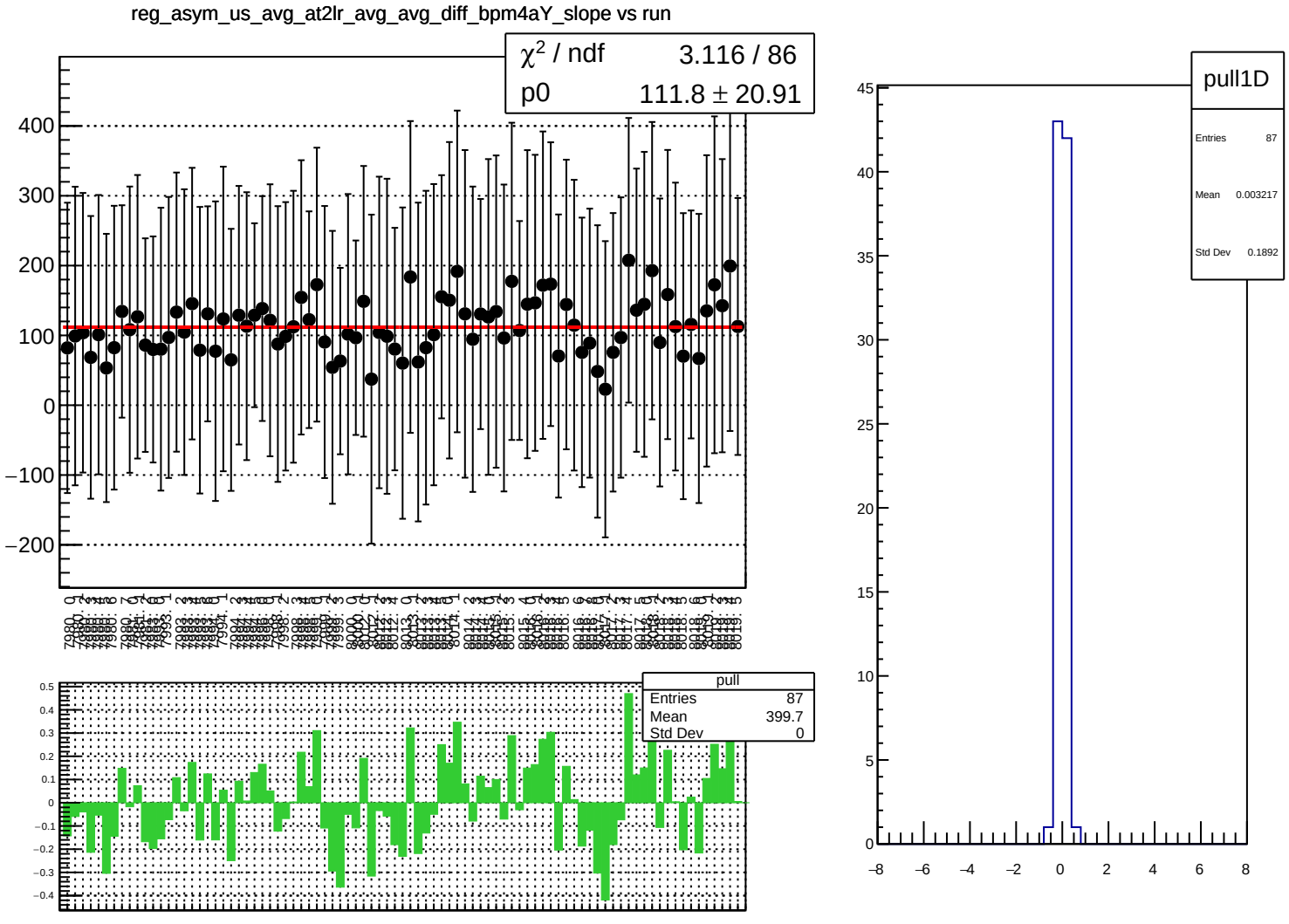

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.83 / 86
p0 4.989 ± 3.411
100
50
0
−50
−100
pull
Entries 87
Mean −1561
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.004043
Std Dev 0.9816
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

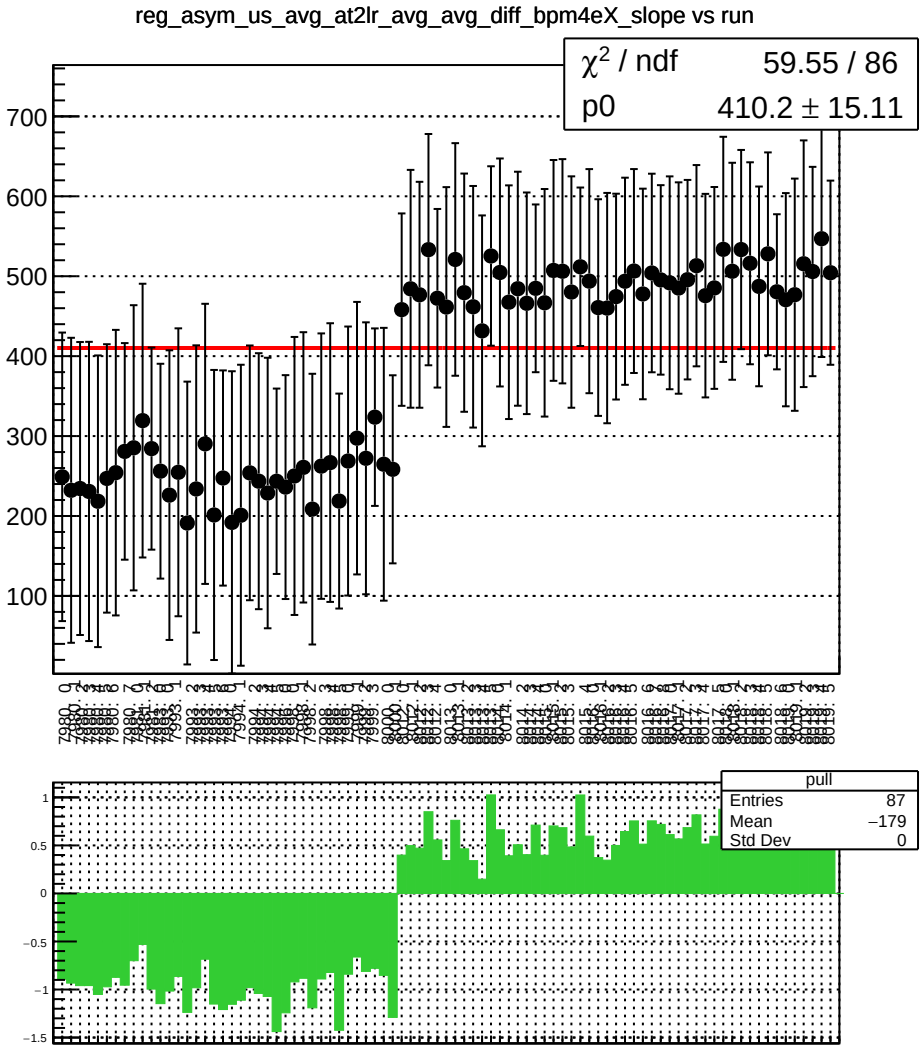

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1007 / 86
p0 −18.87 ± 0.1283
pull
Entries 87
Mean 145.3
Std Dev 0

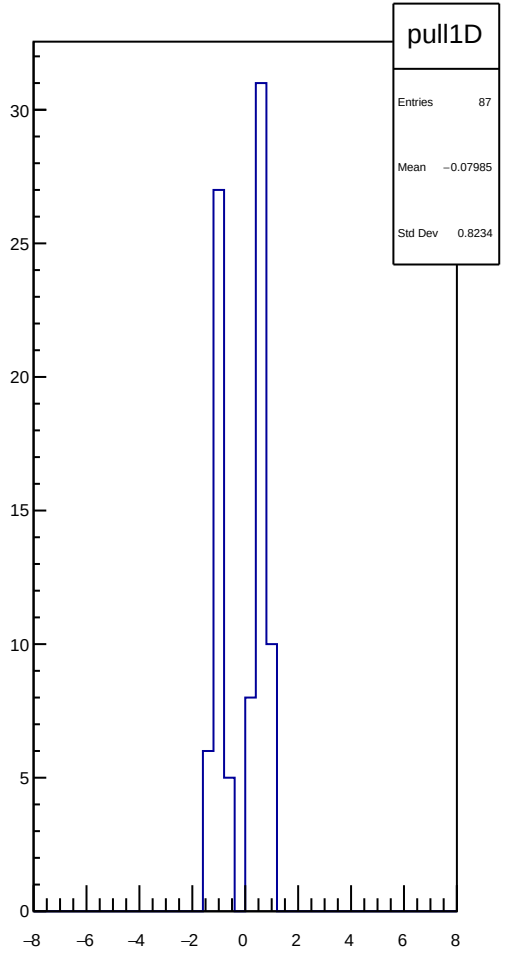

pull1D
Entries 87
Mean 0.7413
Std Dev 3.066

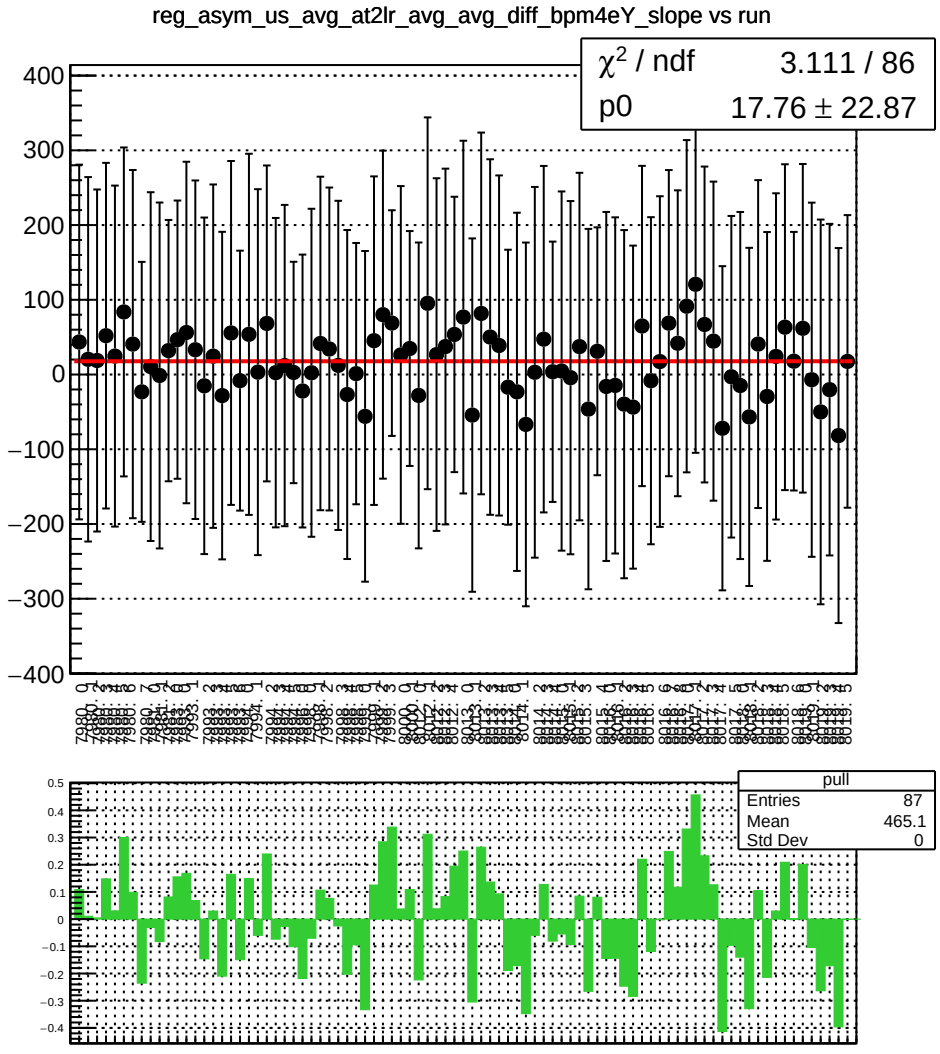

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 115 / 86
p0 −495.1 ± 14.94
pull
Entries 87
Mean −90.09
Std Dev 0

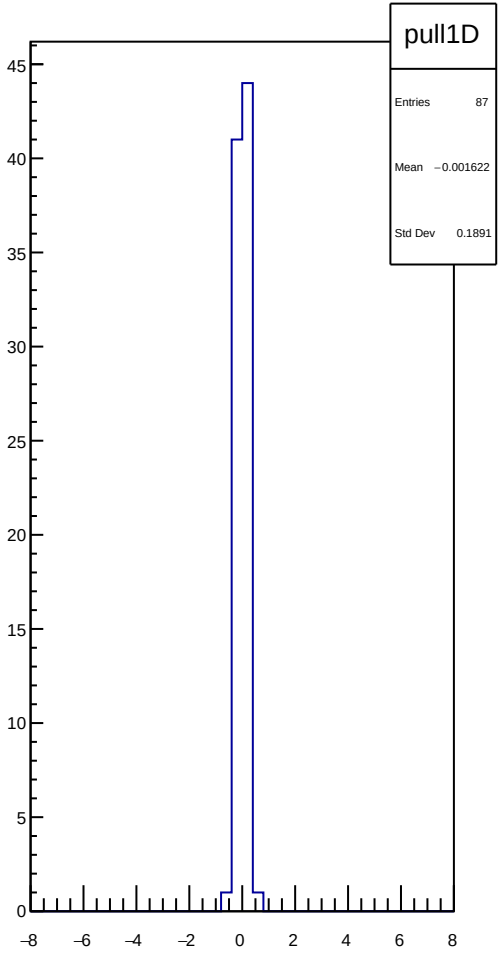

pull1D
Entries 87
Mean 0.1809
Std Dev 1.135

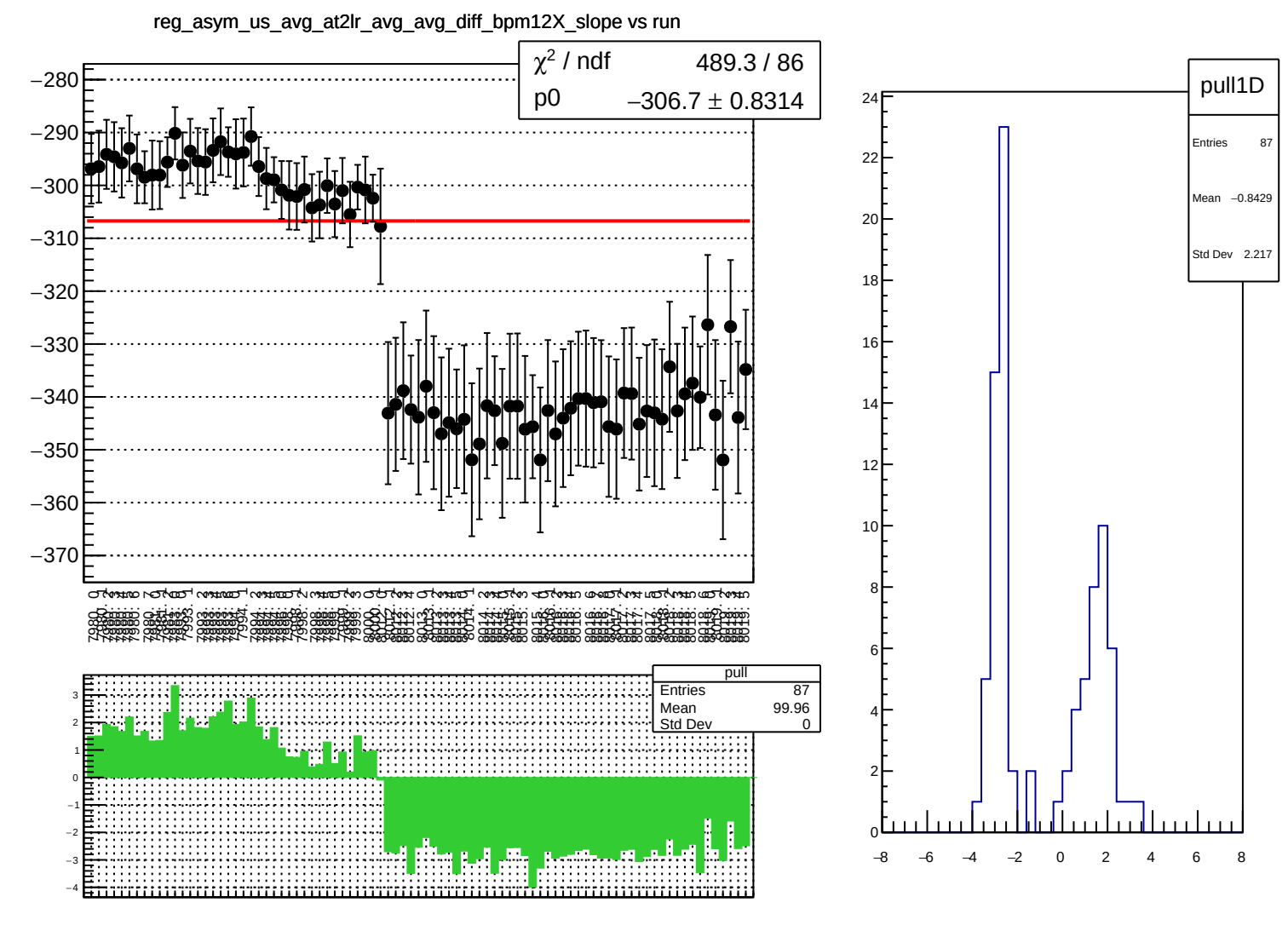

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.116 / 86
p0 111.8 ± 20.91
pull
Entries 87
Mean 399.7
Std Dev 0
pull1D
Entries 87
Mean 0.003217
Std Dev 0.1892

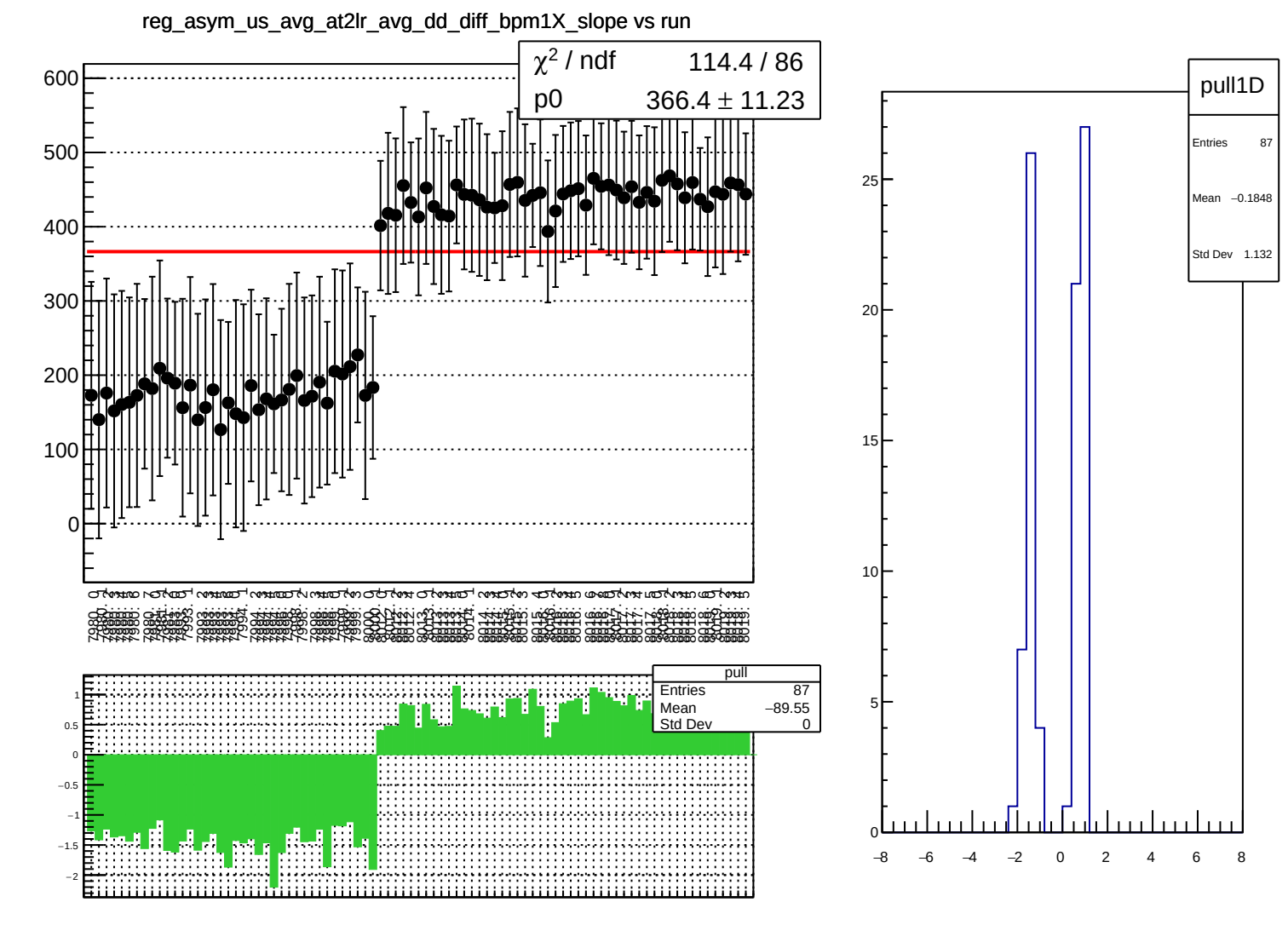

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.55 / 86
p0 410.2 ± 15.11
700
600
500
400
300
200
100
pull
Entries 87
Mean −179
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

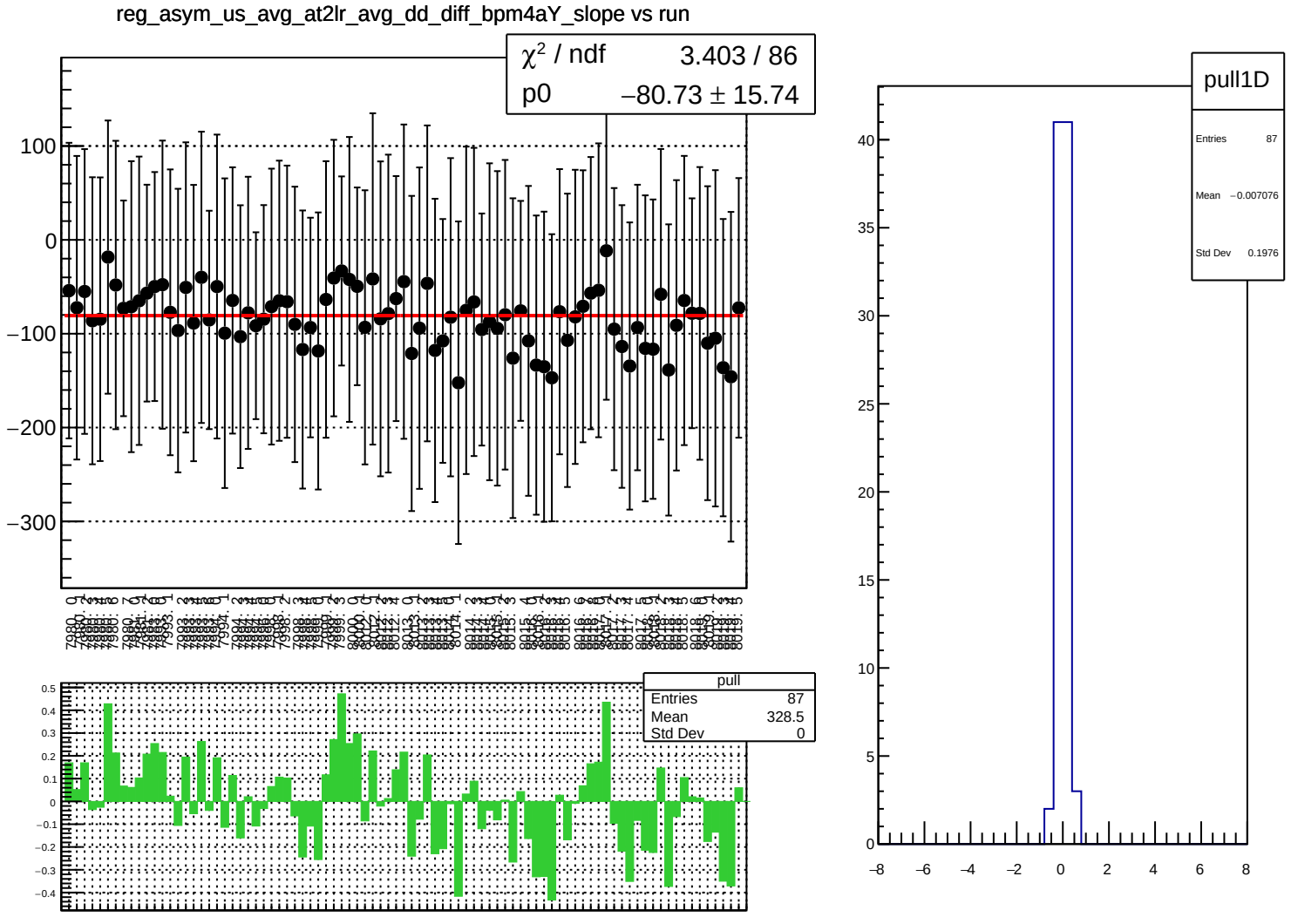

pull1D
Entries 87
Mean −0.07985
Std Dev 0.8234
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

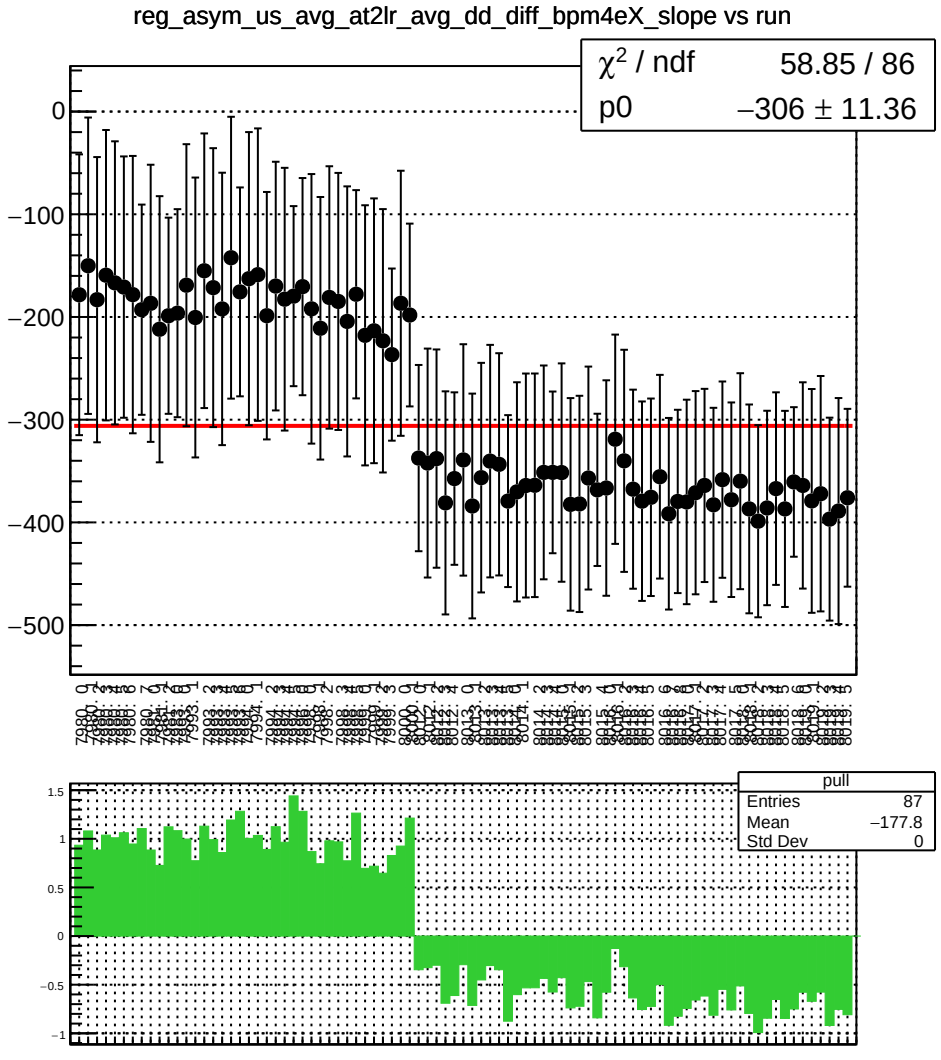

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.111 / 86
p0 17.76 ± 22.87
pull
Entries 87
Mean 465.1
Std Dev 0

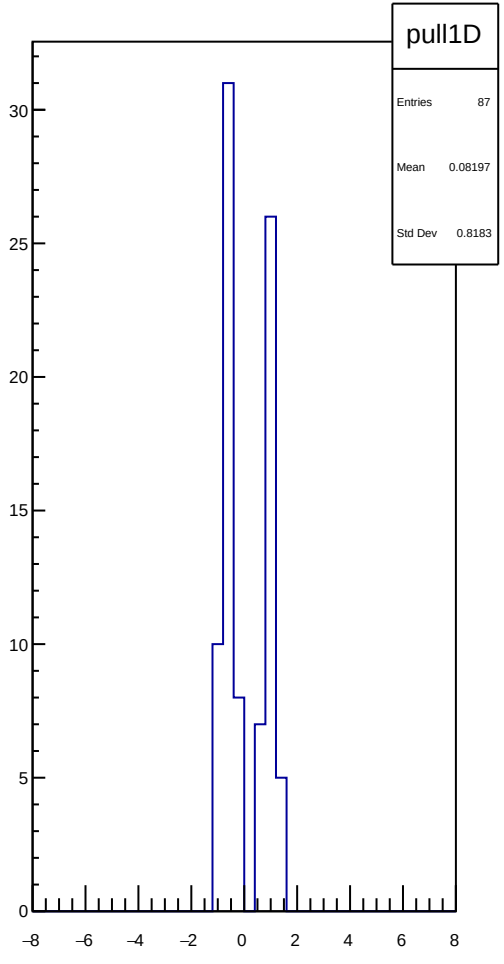

pull1D
Entries 87
Mean −0.001622
Std Dev 0.1891

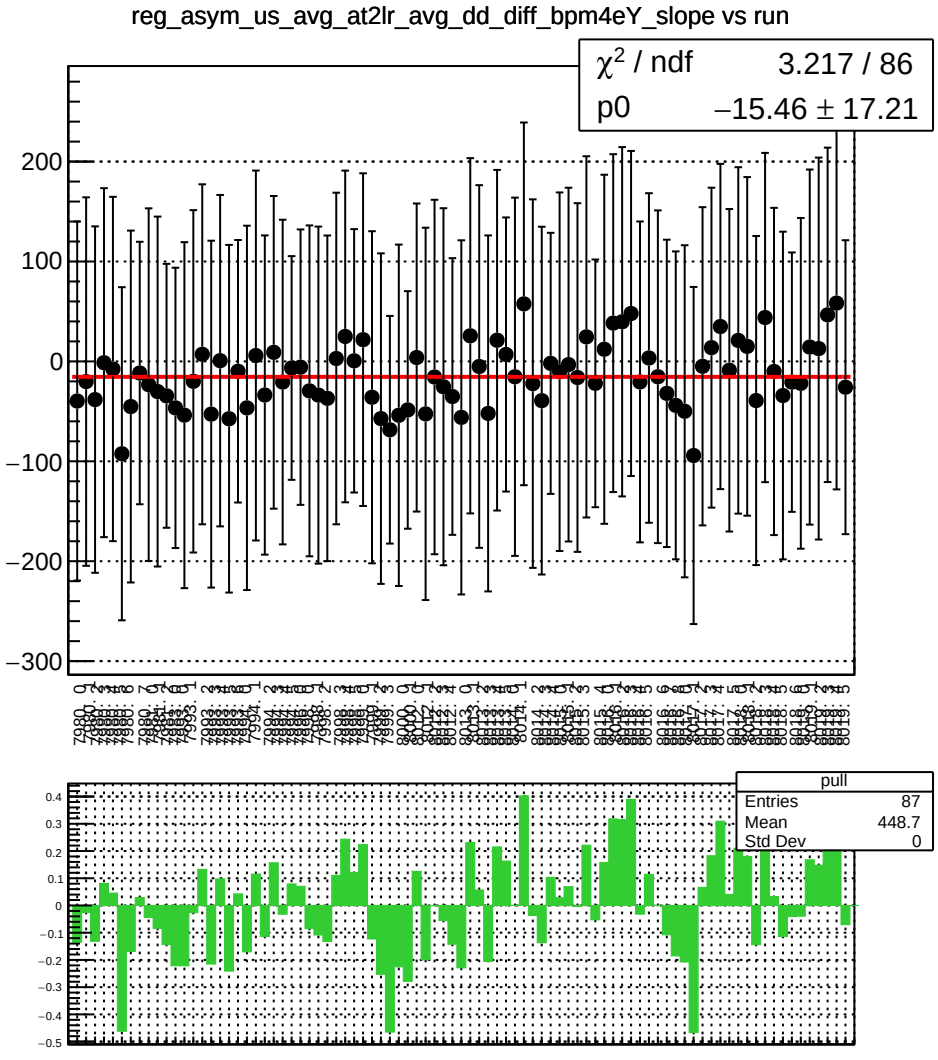

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 489.3 / 86
p0 −306.7 ± 0.8314
pull
Entries 87
Mean 99.96
Std Dev 0
pull1D
Entries 87
Mean −0.8429
Std Dev 2.217

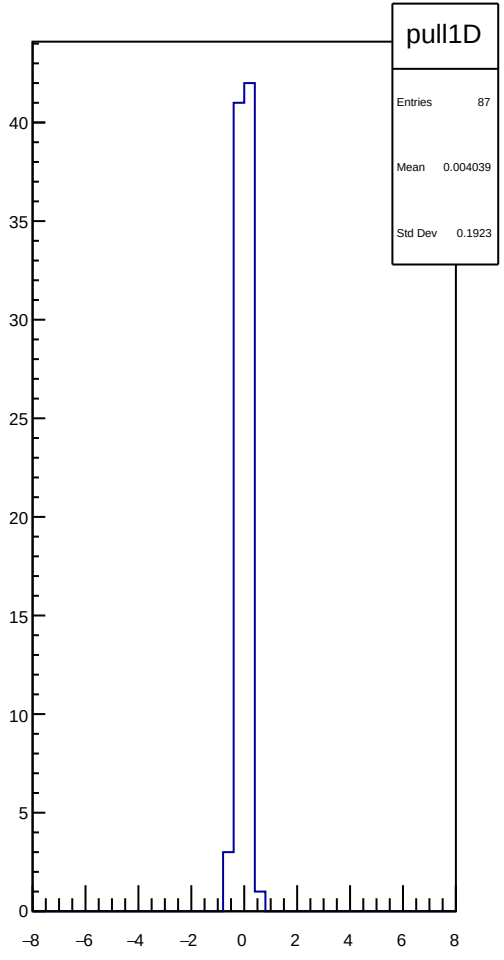

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 114.4 / 86
p0 366.4 ± 11.23
600
500
400
300
200
100
0
pull
Entries 87
Mean −89.55
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.1848
Std Dev 1.132
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

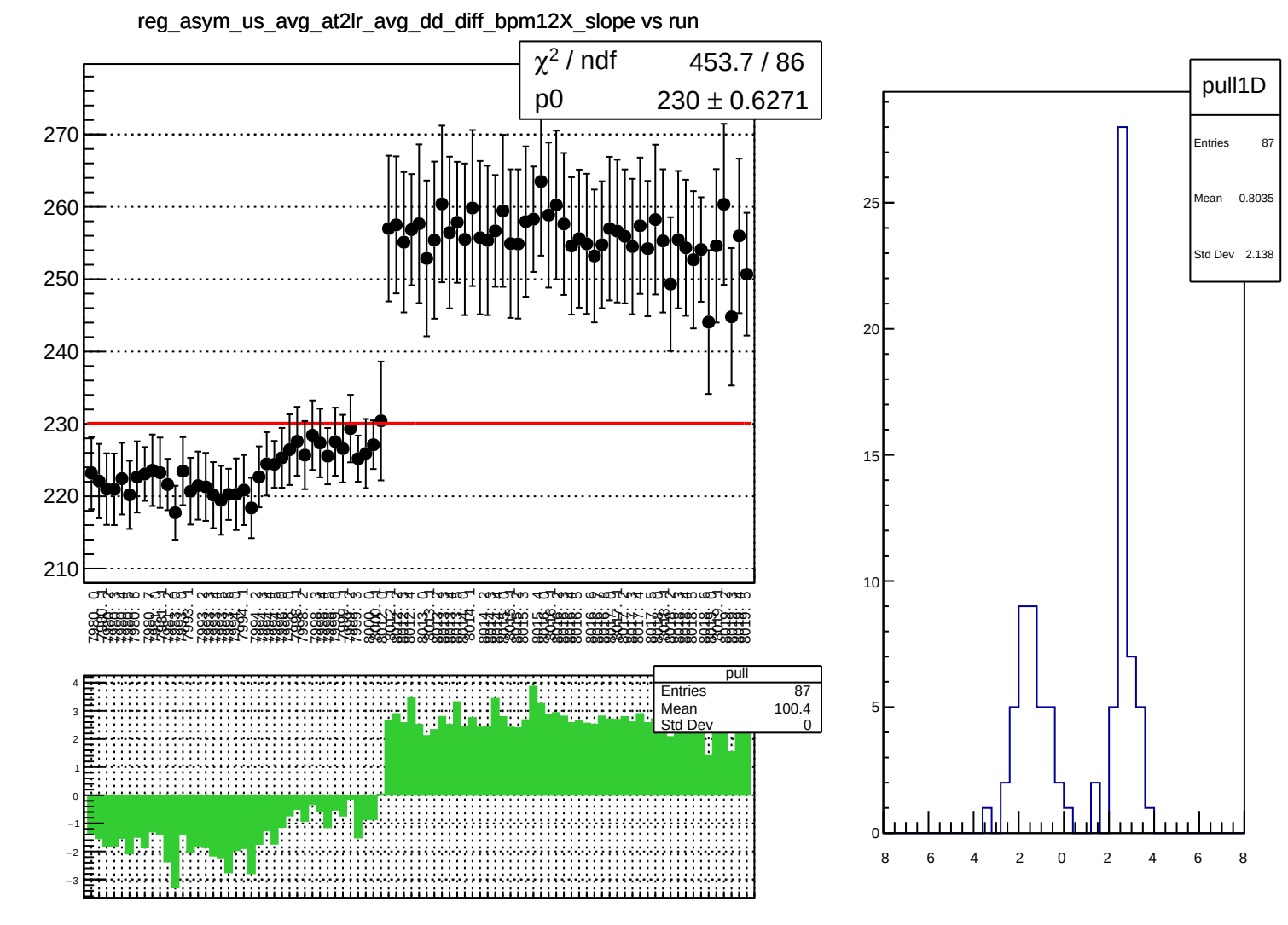

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.403 / 86
p0 −80.73 ± 15.74
100
0
−100
−200
−300
pull
Entries 87
Mean 328.5
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 87
Mean −0.007076
Std Dev 0.1976
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

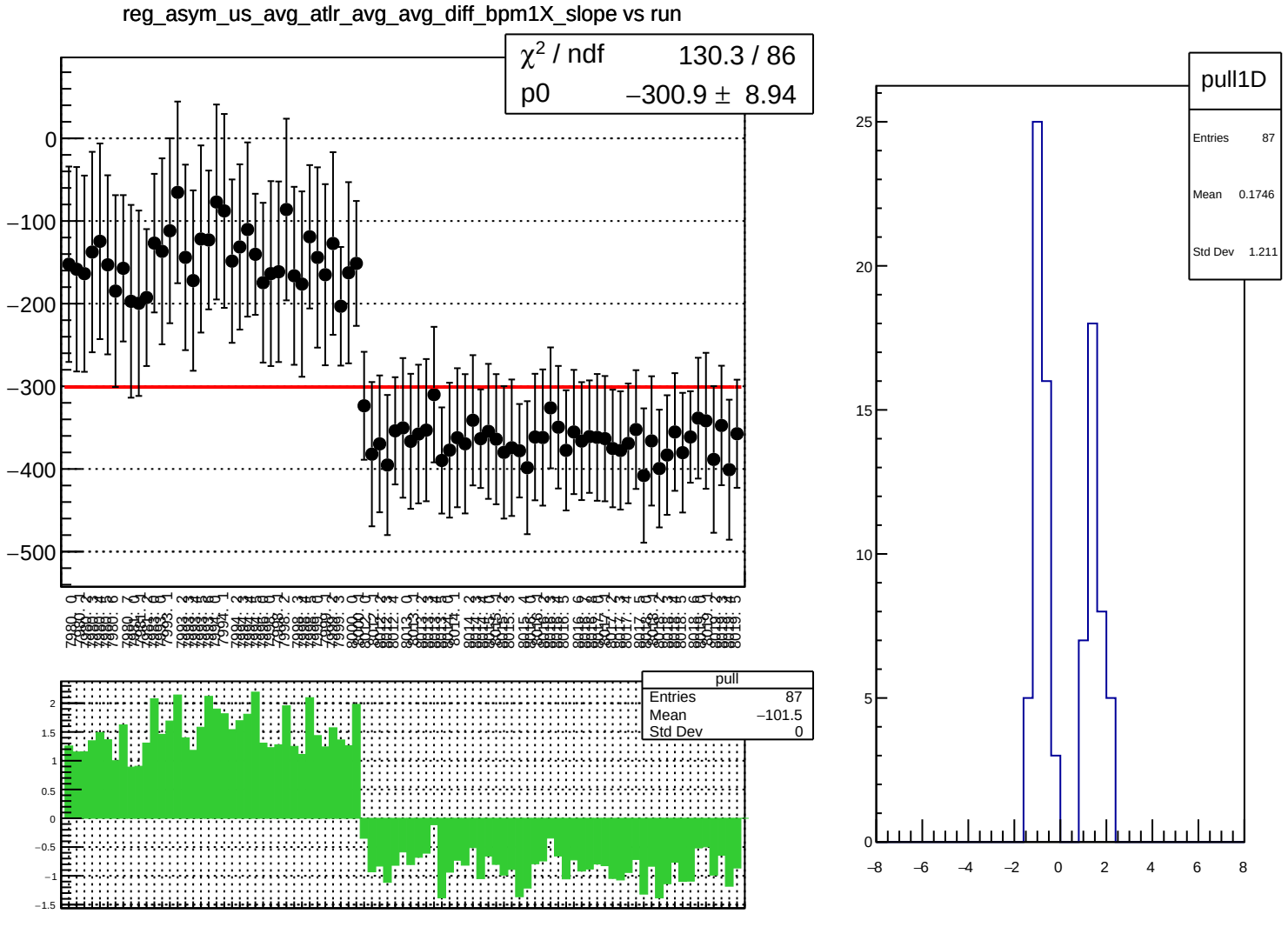

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.85 / 86
p0 −306 ± 11.36
0
−100
−200
−300
−400
−500
pull
Entries 87
Mean −177.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1

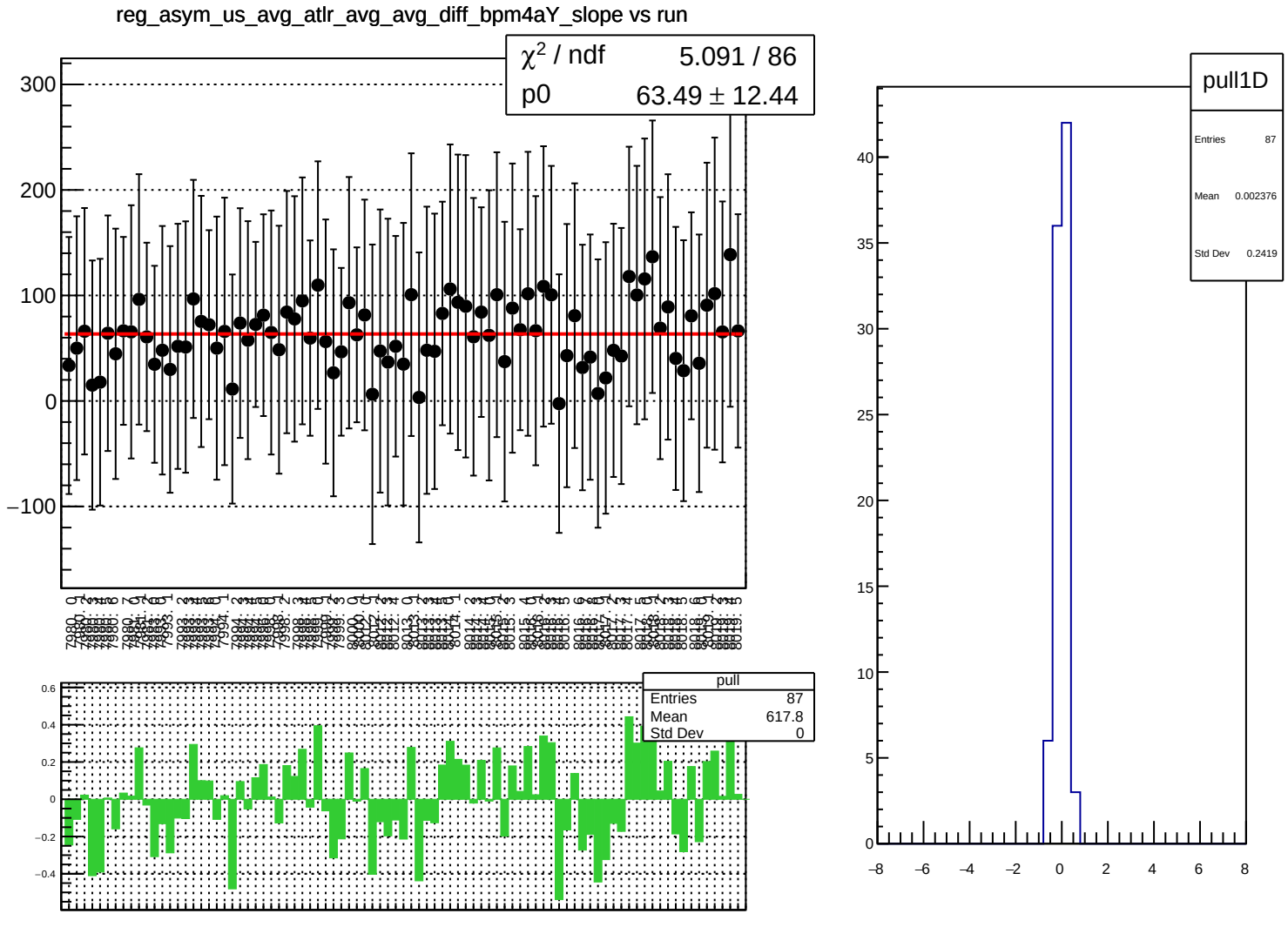

pull1D
Entries 87
Mean 0.08197
Std Dev 0.8183
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

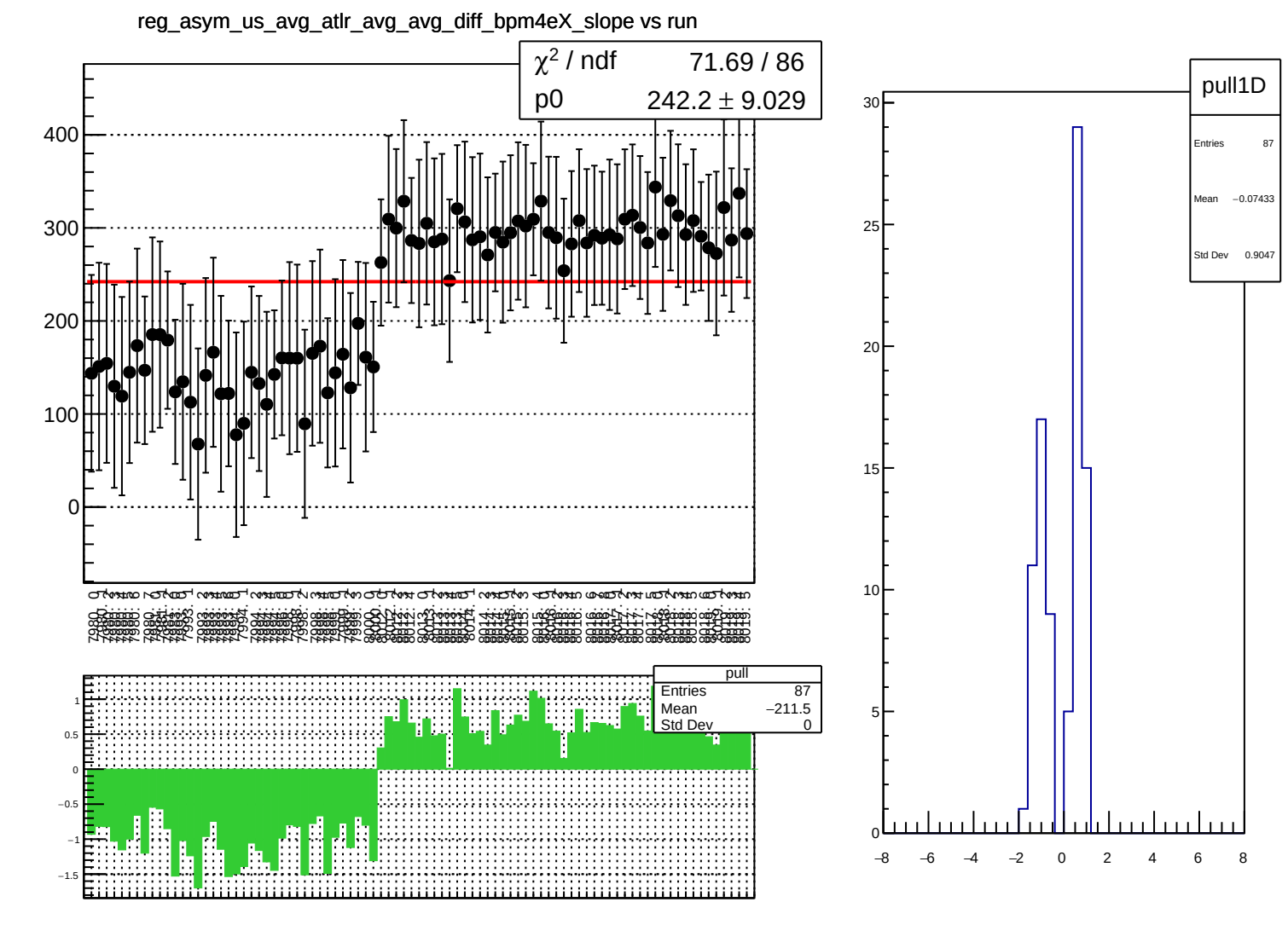

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.217 / 86
p0 −15.46 ± 17.21
pull
Entries 87
Mean 448.7
Std Dev 0

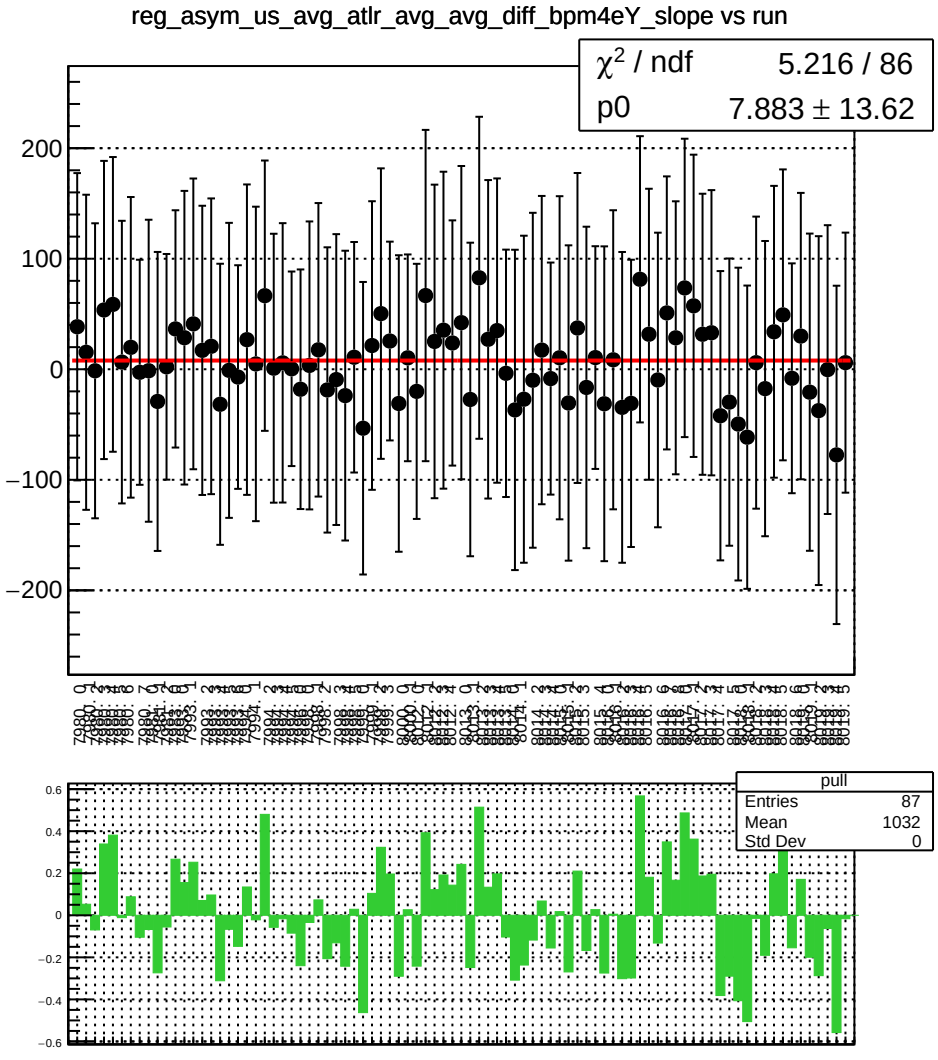

pull1D
Entries 87
Mean 0.004039
Std Dev 0.1923

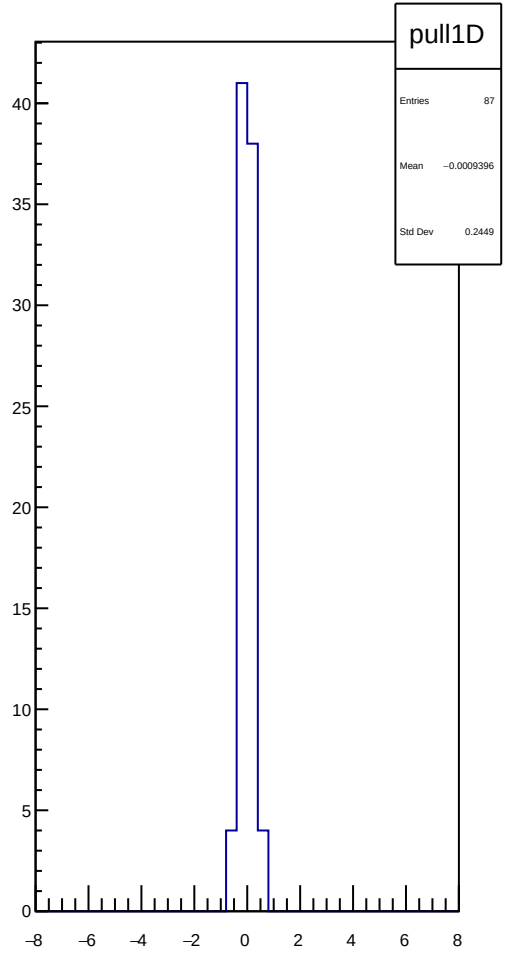

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 453.7 / 86
p0 230 ± 0.6271
270
260
250
240
230
220
210
pull
Entries 87
Mean 100.4
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.8035
Std Dev 2.138
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

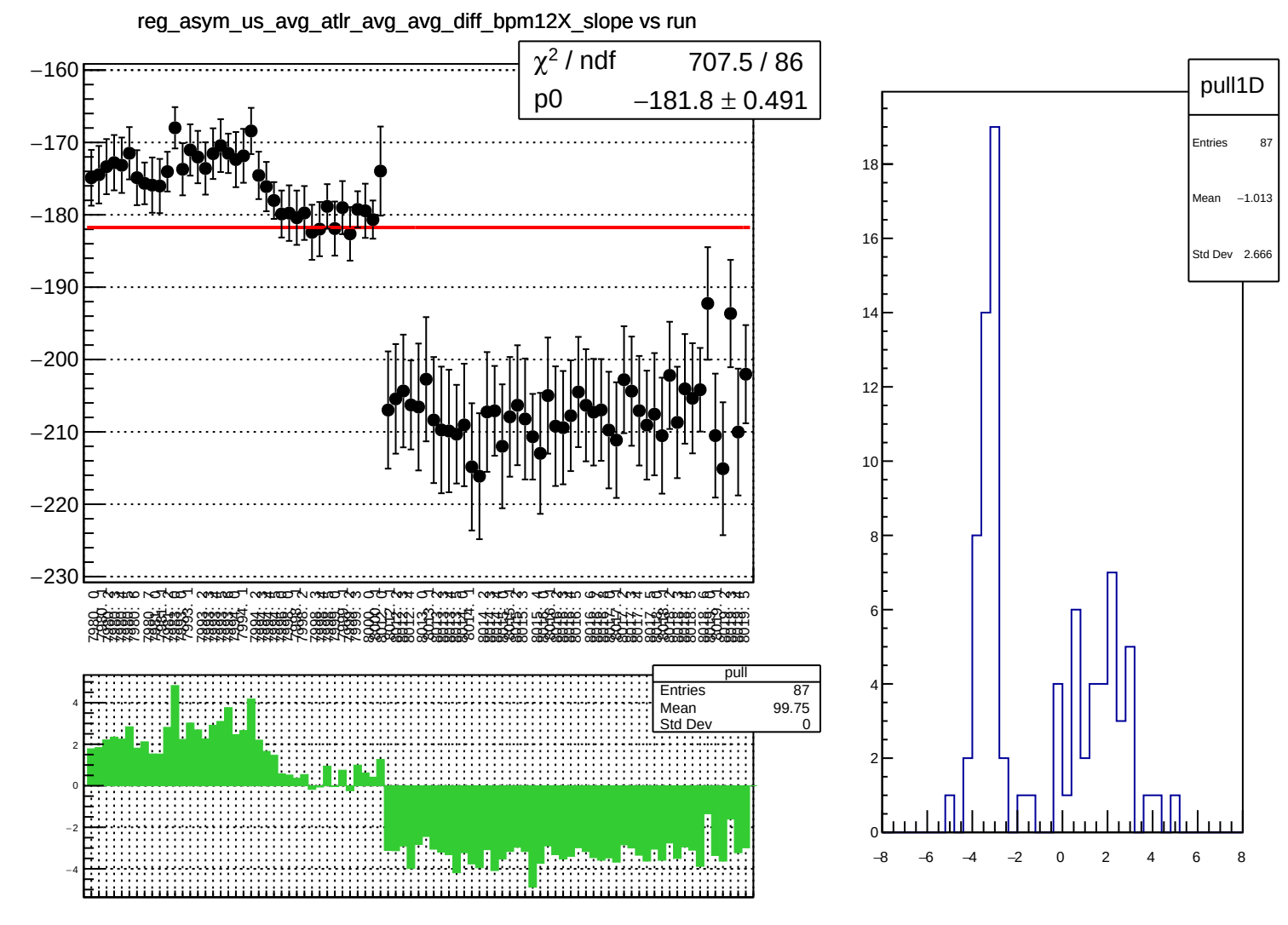

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 130.3 / 86
p0 −300.9 ± 8.94
0
−100
−200
−300
−400
−500
pull
Entries 87
Mean −101.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.1746
Std Dev 1.211
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

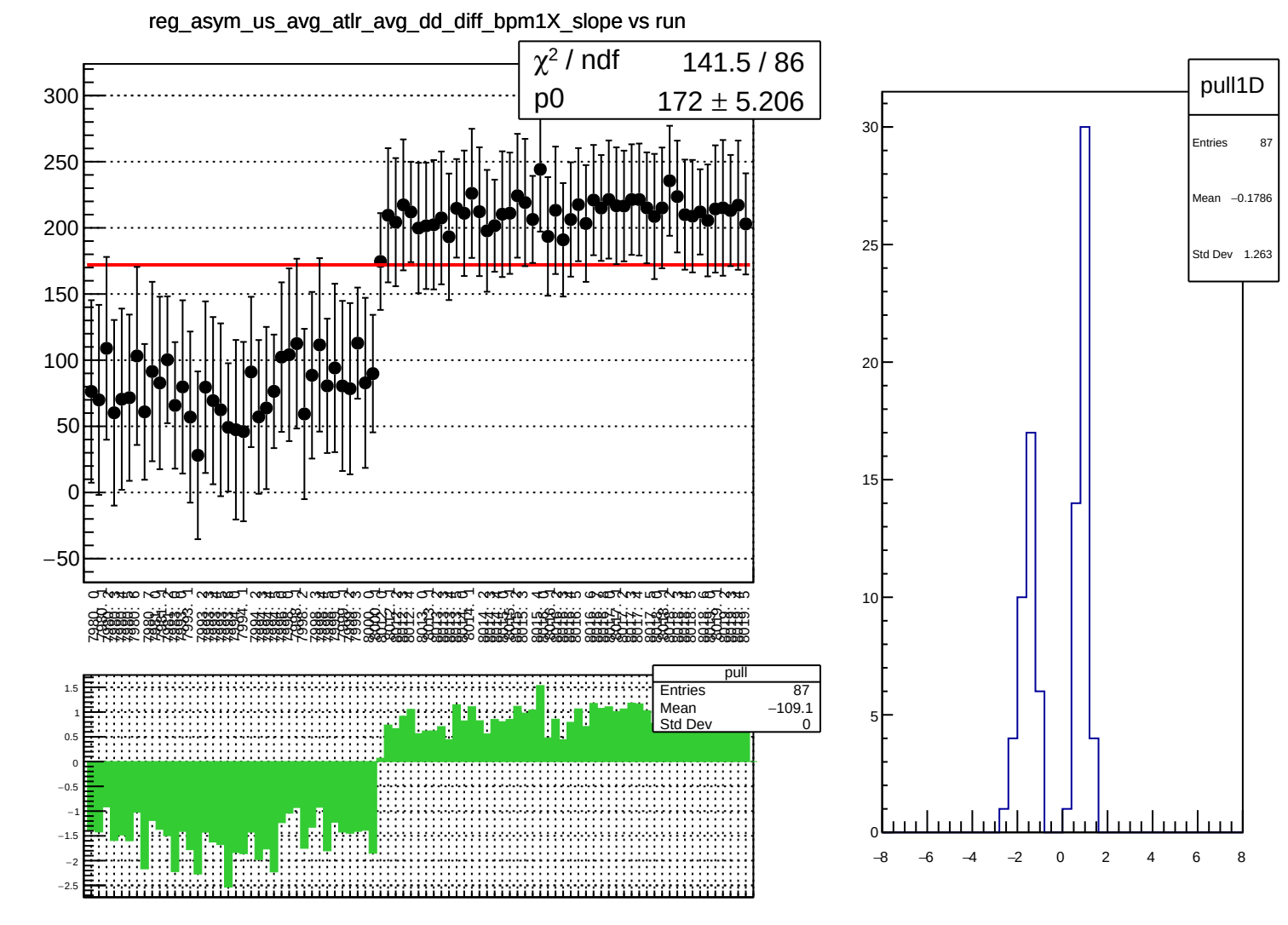

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.091 / 86
p0 63.49 ± 12.44
300
200
100
0
−100
pull
Entries 87
Mean 617.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 87
Mean 0.002376
Std Dev 0.2419
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

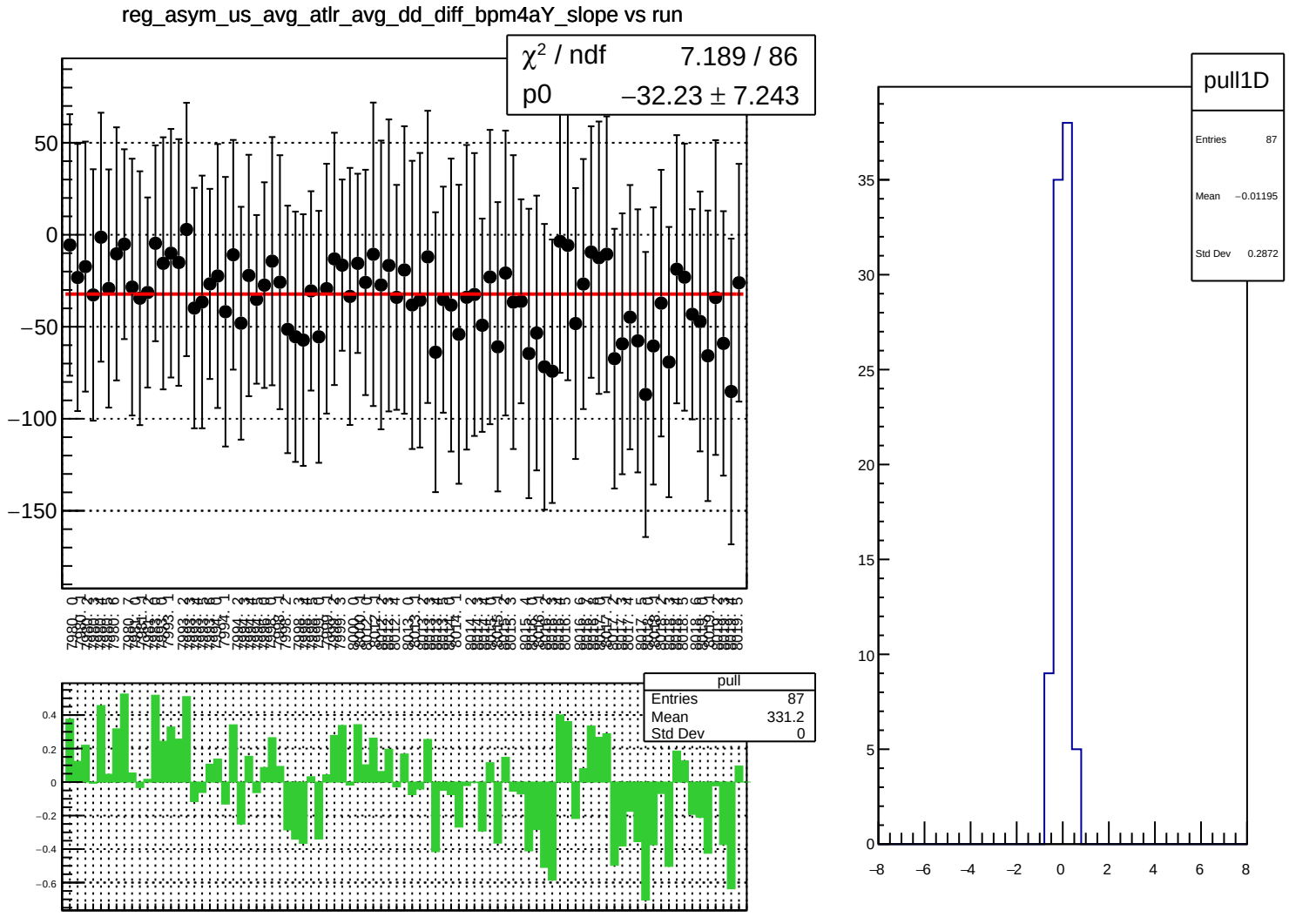

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 71.69 / 86
p0 242.2 ± 9.029
400
300
200
100
0
pull
Entries 87
Mean −211.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.07433
Std Dev 0.9047
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

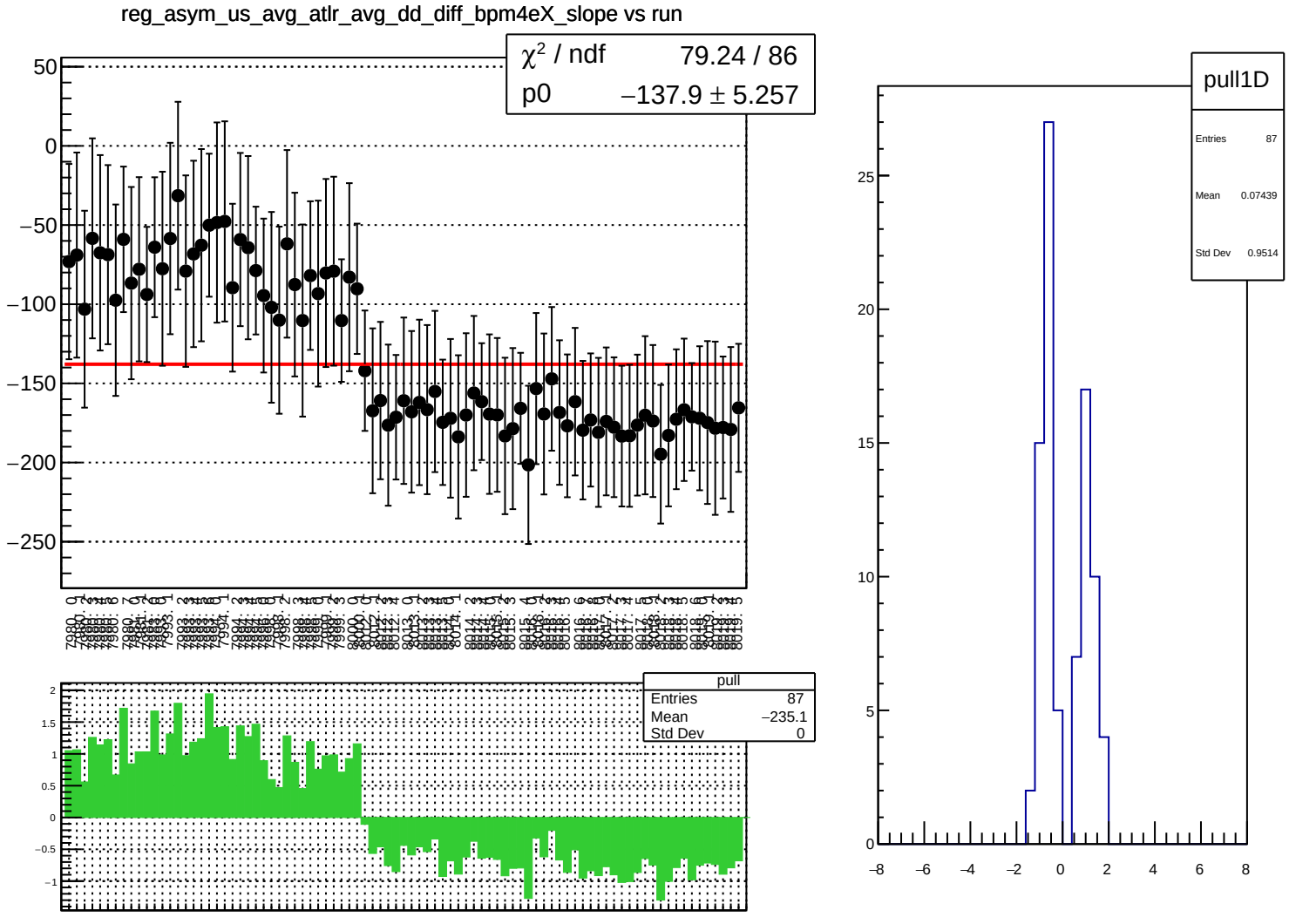

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.216 / 86
p0 7.883 ± 13.62
200
100
0
−100
−200
pull
Entries 87
Mean 1032
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

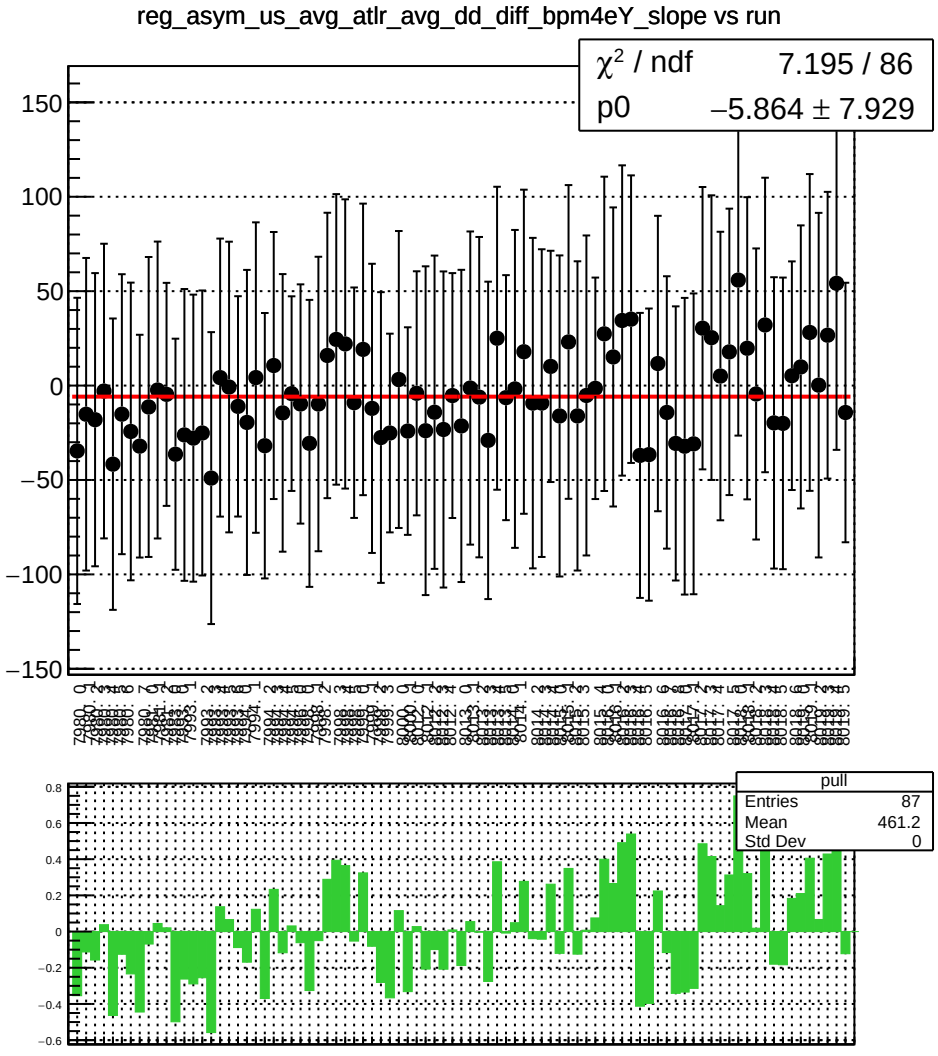

pull1D
Entries 87
Mean −0.0009396
Std Dev 0.2449
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

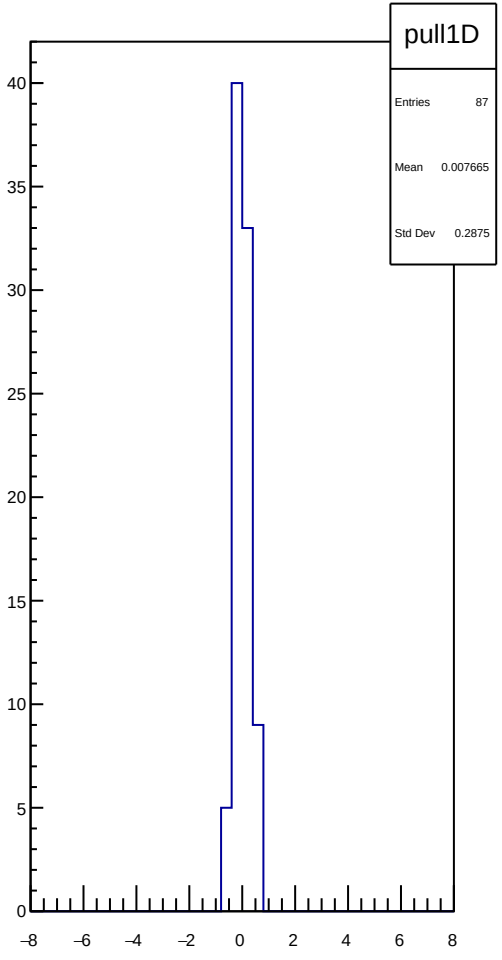

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 707.5 / 86
p0 −181.8 ± 0.491
pull
Entries 87
Mean 99.75
Std Dev 0
pull1D
Entries 87
Mean −1.013
Std Dev 2.666

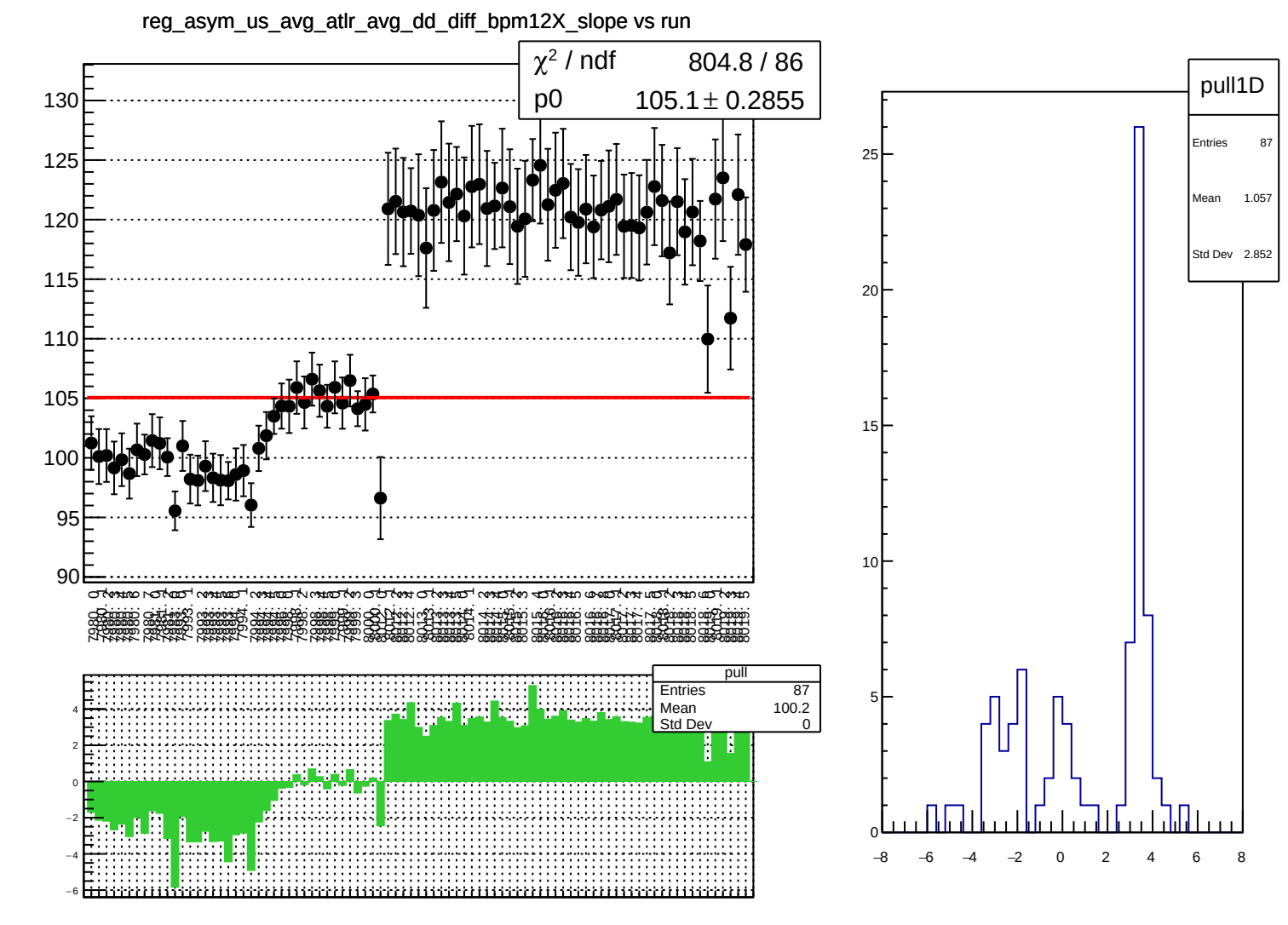

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 141.5 / 86
p0 172 ± 5.206
pull
Entries 87
Mean −109.1
Std Dev 0
pull1D
Entries 87
Mean −0.1786
Std Dev 1.263

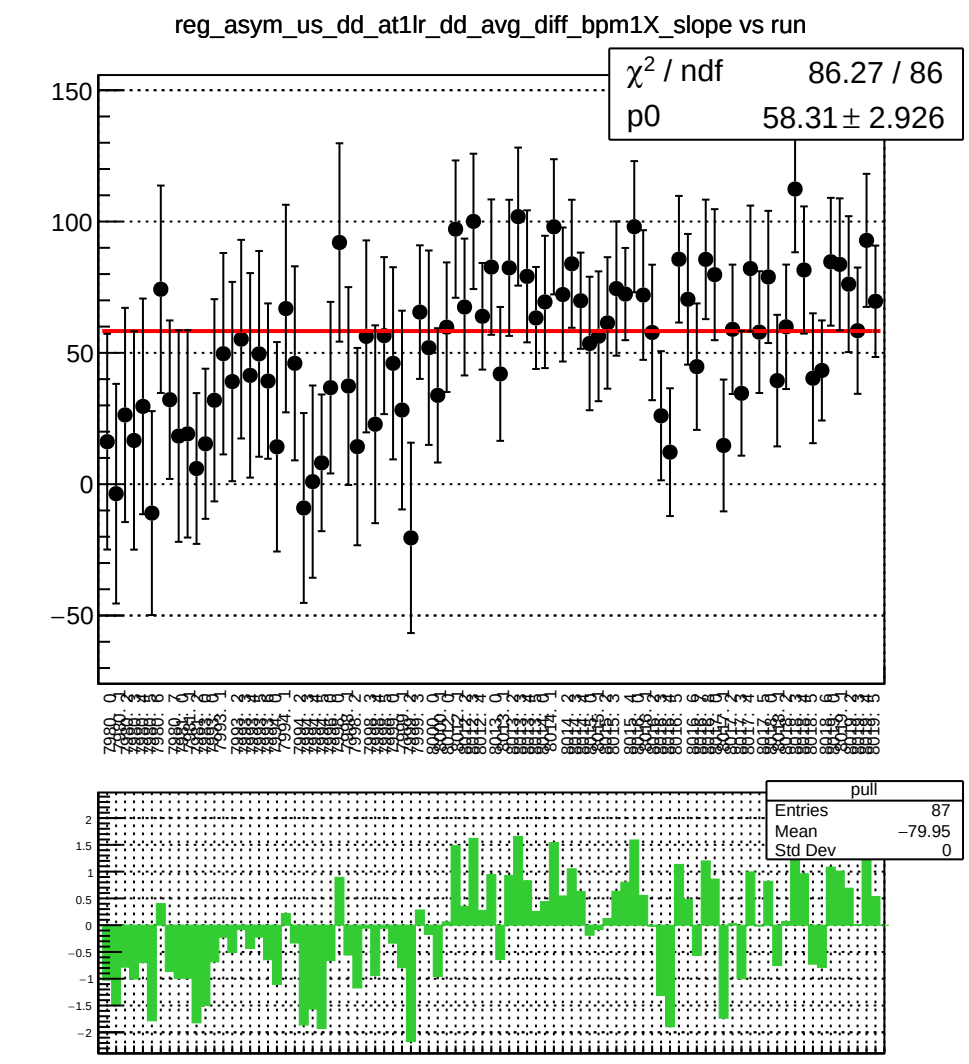

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.189 / 86
p0 −32.23 ± 7.243
50
0
−50
−100
−150
pull
Entries 87
Mean 331.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 87
Mean −0.01195
Std Dev 0.2872
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

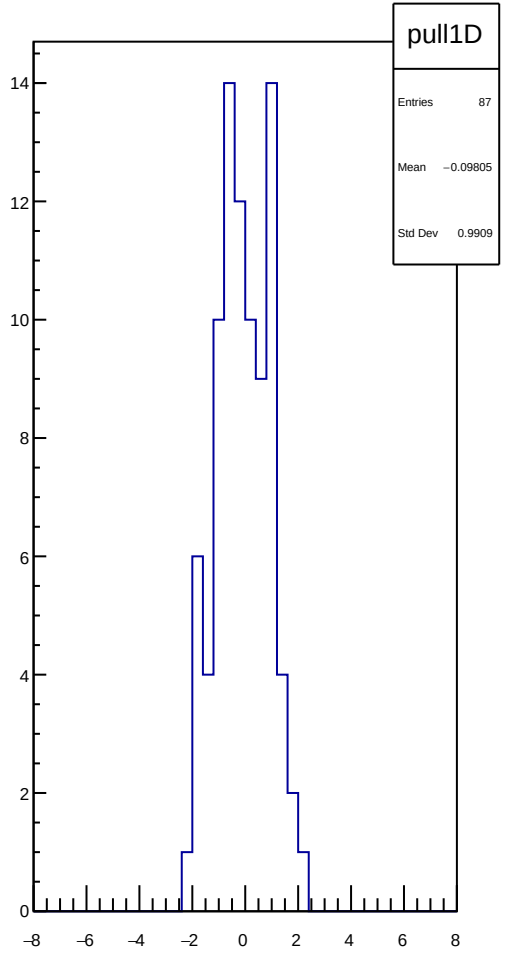

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.24 / 86
p0 −137.9 ± 5.257
pull
Entries 87
Mean −235.1
Std Dev 0
pull1D
Entries 87
Mean 0.07439
Std Dev 0.9514

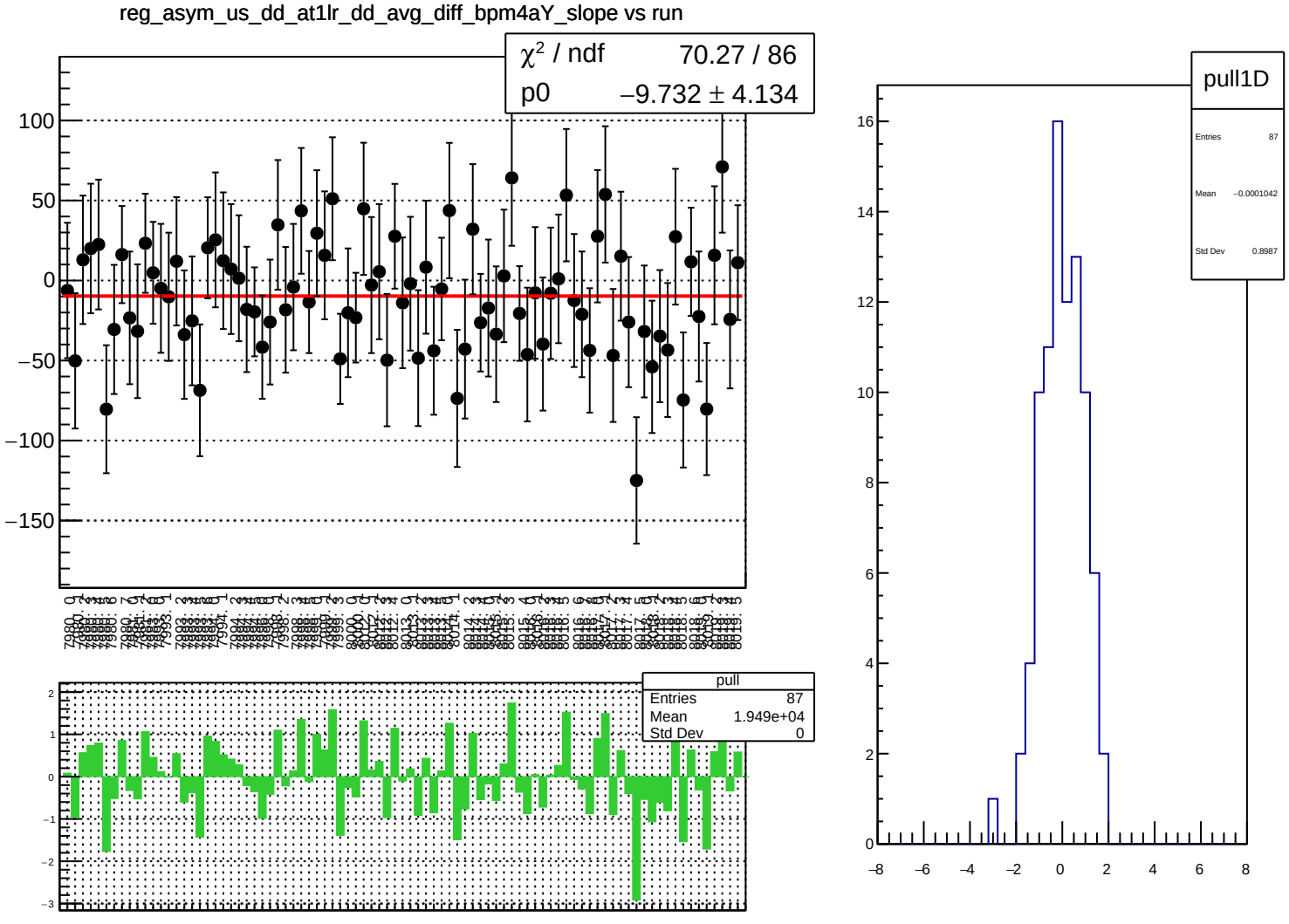

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.195 / 86
p0 −5.864 ± 7.929
pull
Entries 87
Mean 461.2
Std Dev 0

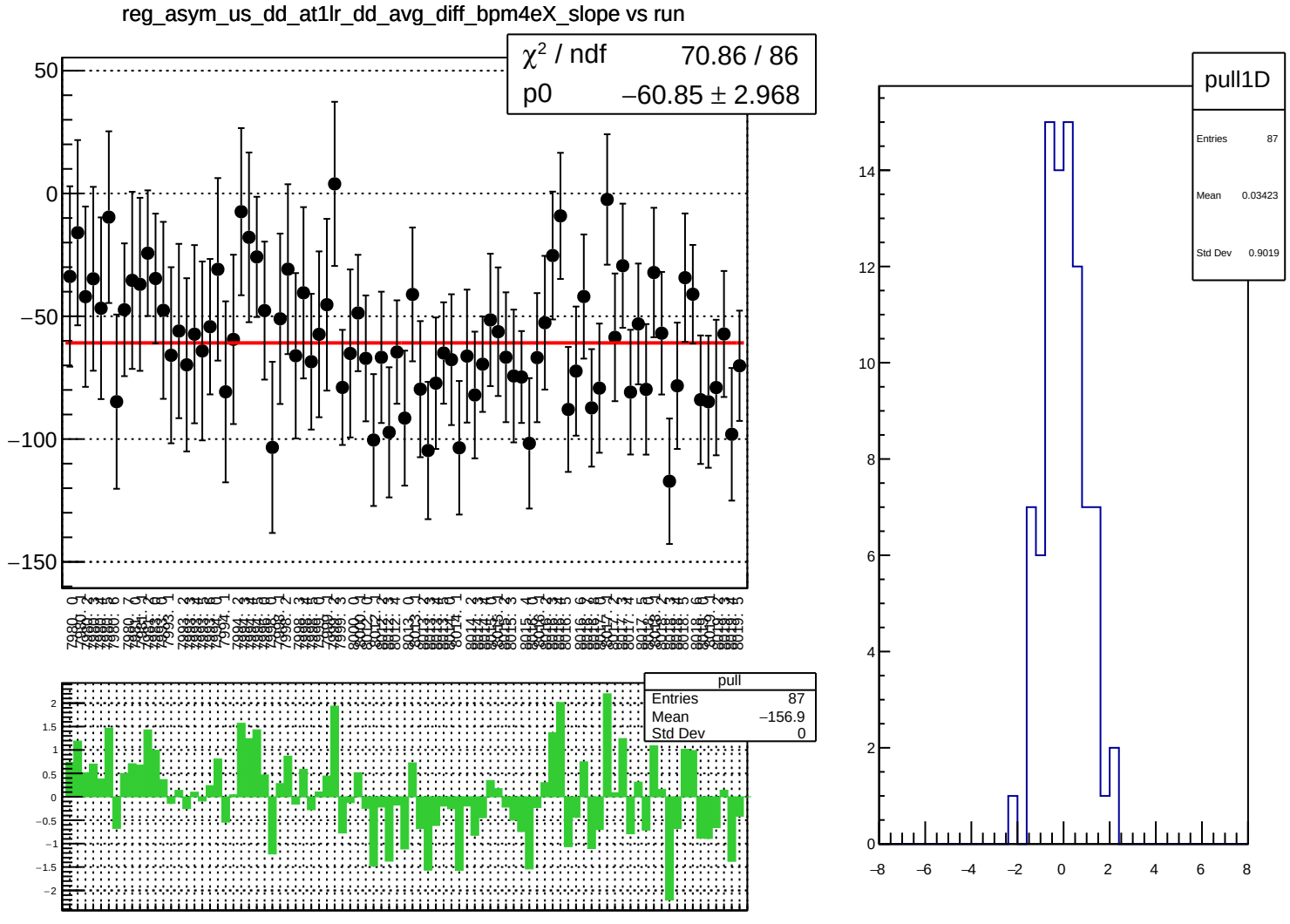

pull1D
Entries 87
Mean 0.007665
Std Dev 0.2875

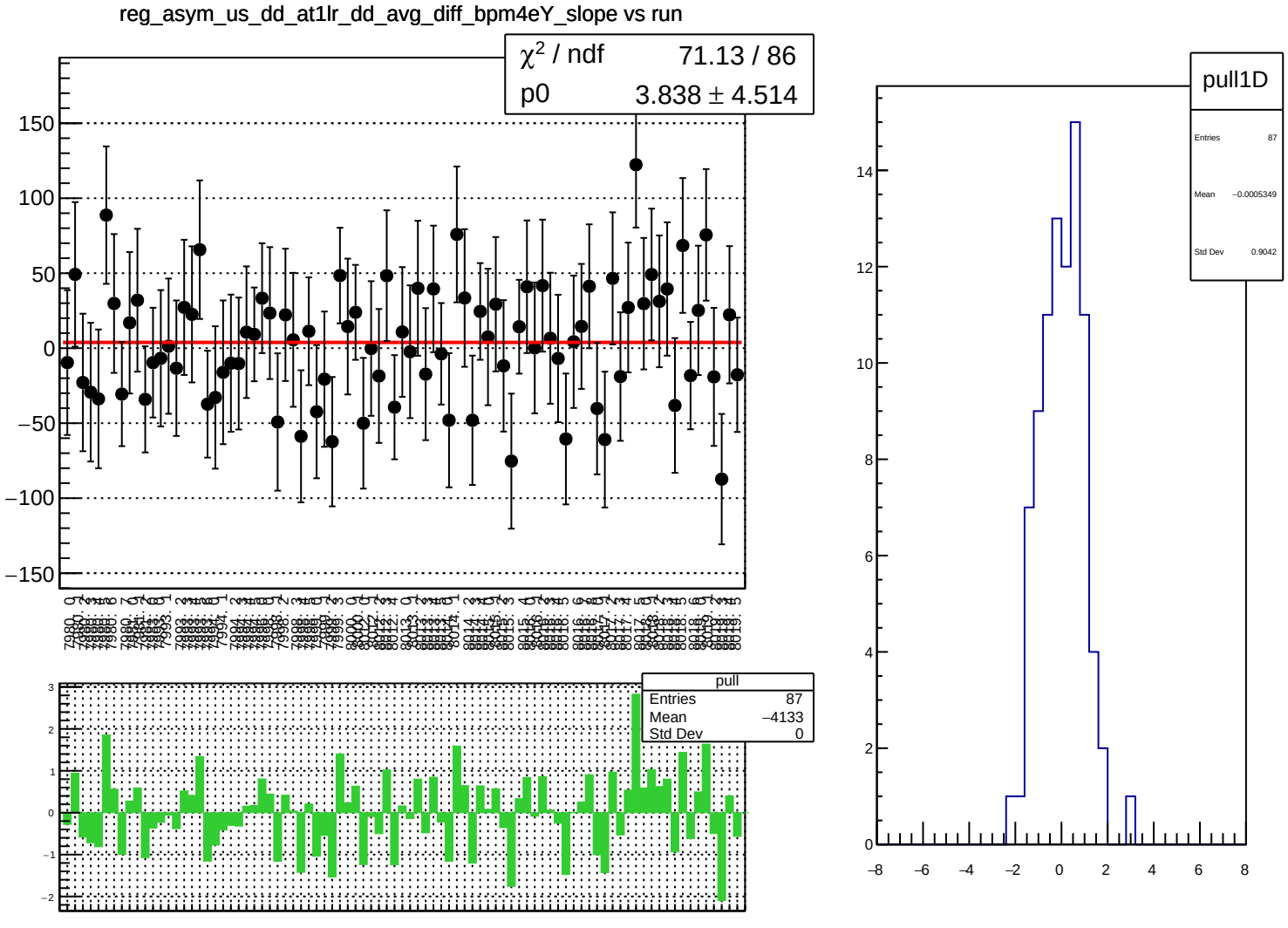

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 804.8 / 86
p0 105.1 ± 0.2855
pull
Entries 87
Mean 100.2
Std Dev 0
pull1D
Entries 87
Mean 1.057
Std Dev 2.852

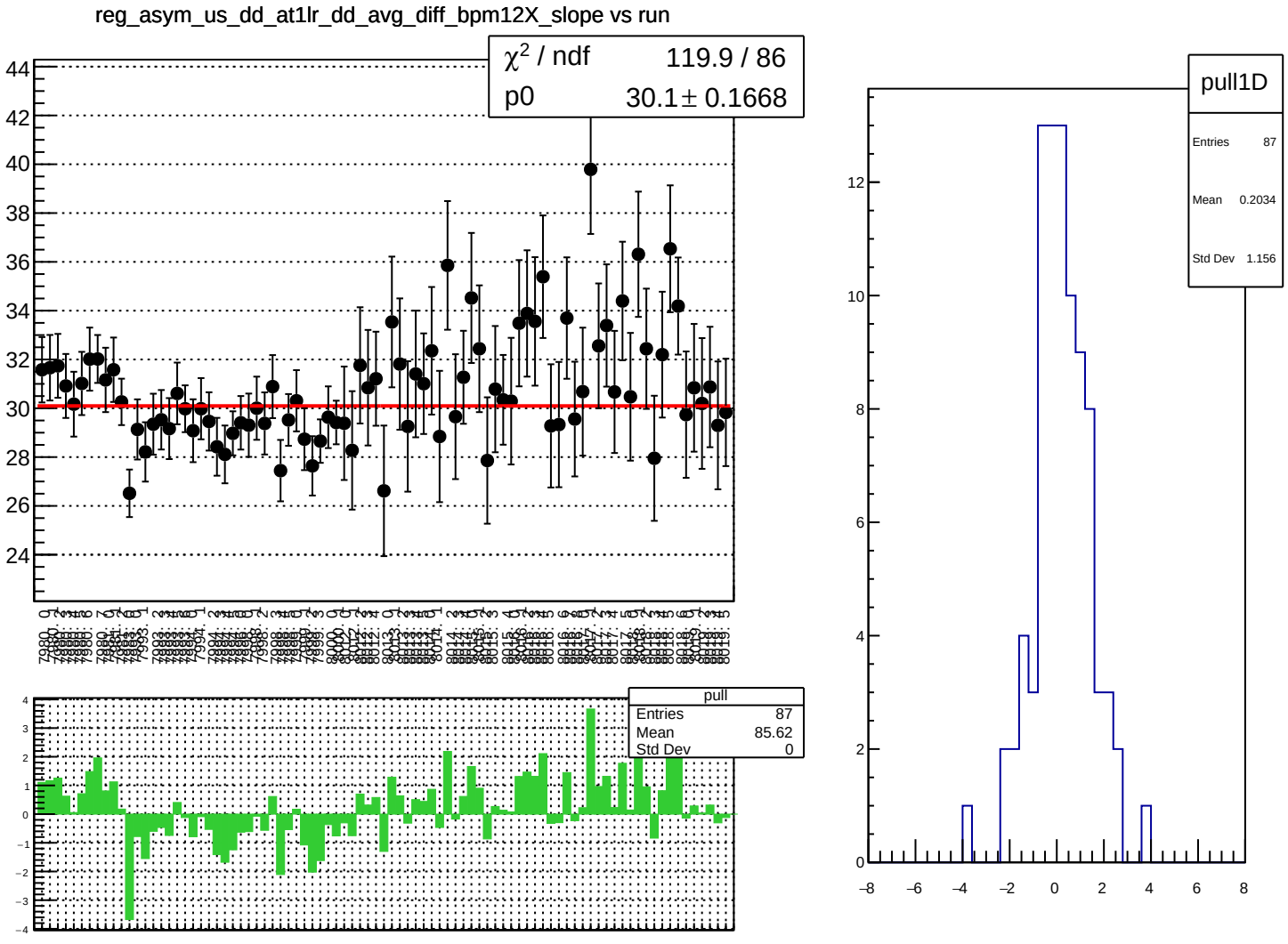

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 86.27 / 86
p0 58.31 ± 2.926
150
100
50
0
−50
pull
Entries 87
Mean −79.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

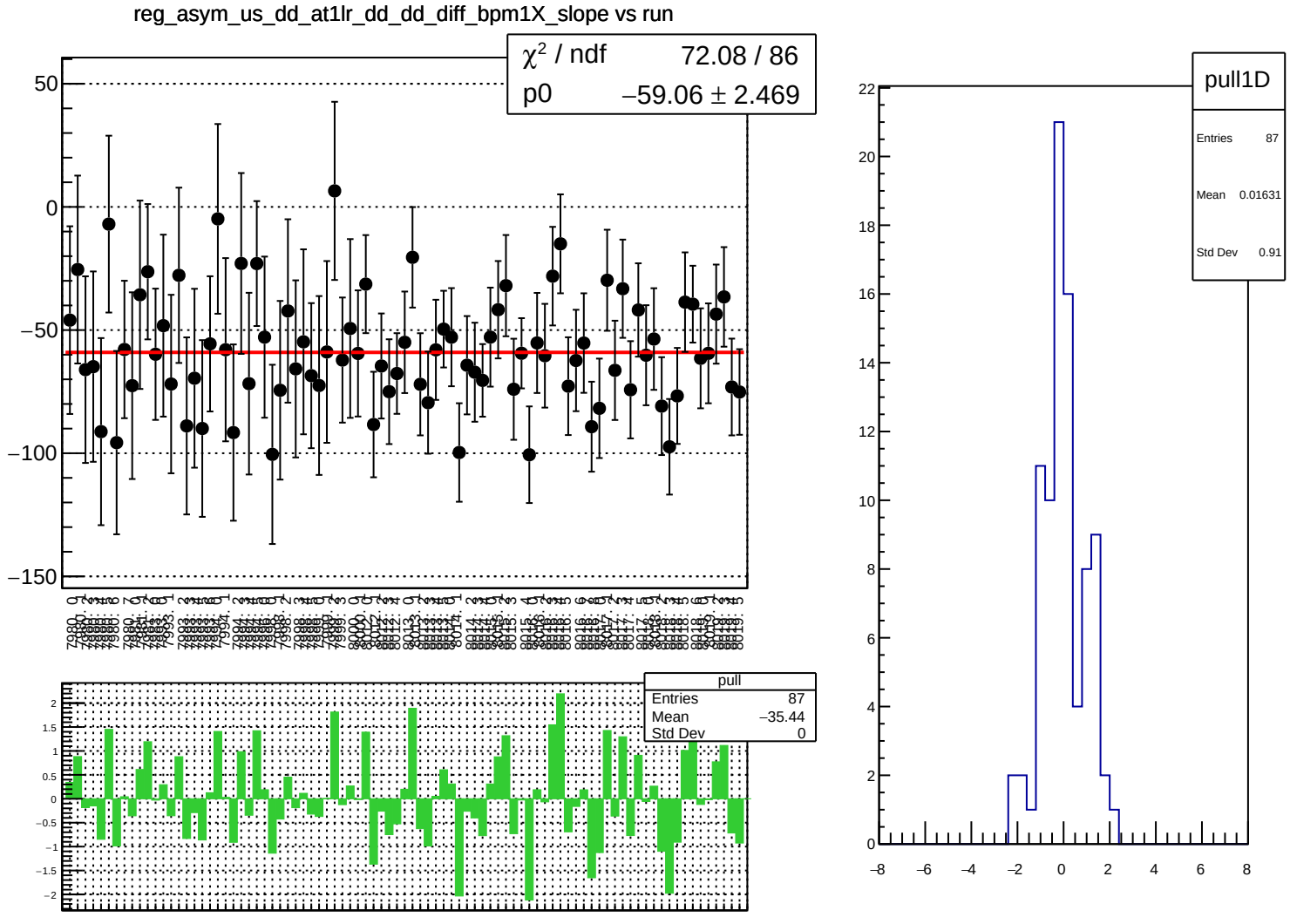

pull1D
Entries 87
Mean −0.09805
Std Dev 0.9909
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

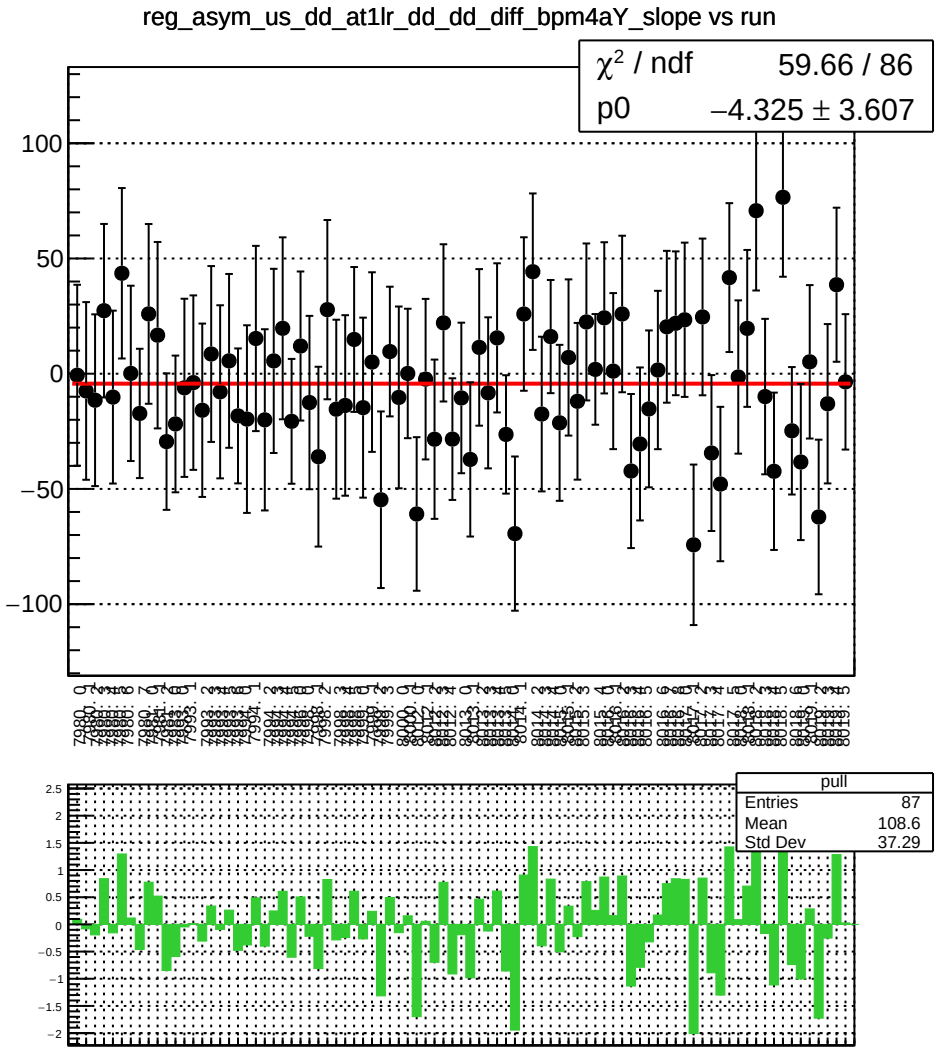

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 70.27 / 86
p0 −9.732 ± 4.134
pull
Entries 87
Mean 1.949e+04
Std Dev 0
pull1D
Entries 87
Mean −0.0001042
Std Dev 0.8987

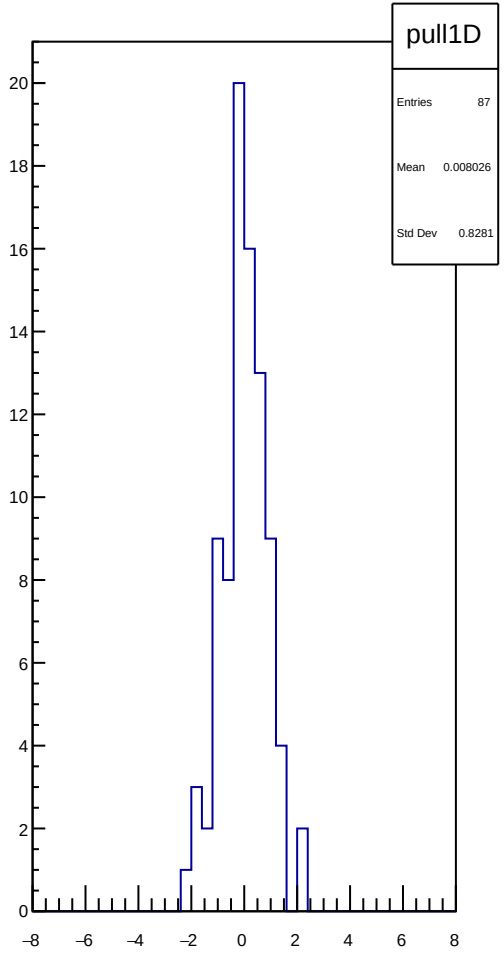

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 70.86 / 86
p0 −60.85 ± 2.968
pull
Entries 87
Mean −156.9
Std Dev 0
pull1D
Entries 87
Mean 0.03423
Std Dev 0.9019

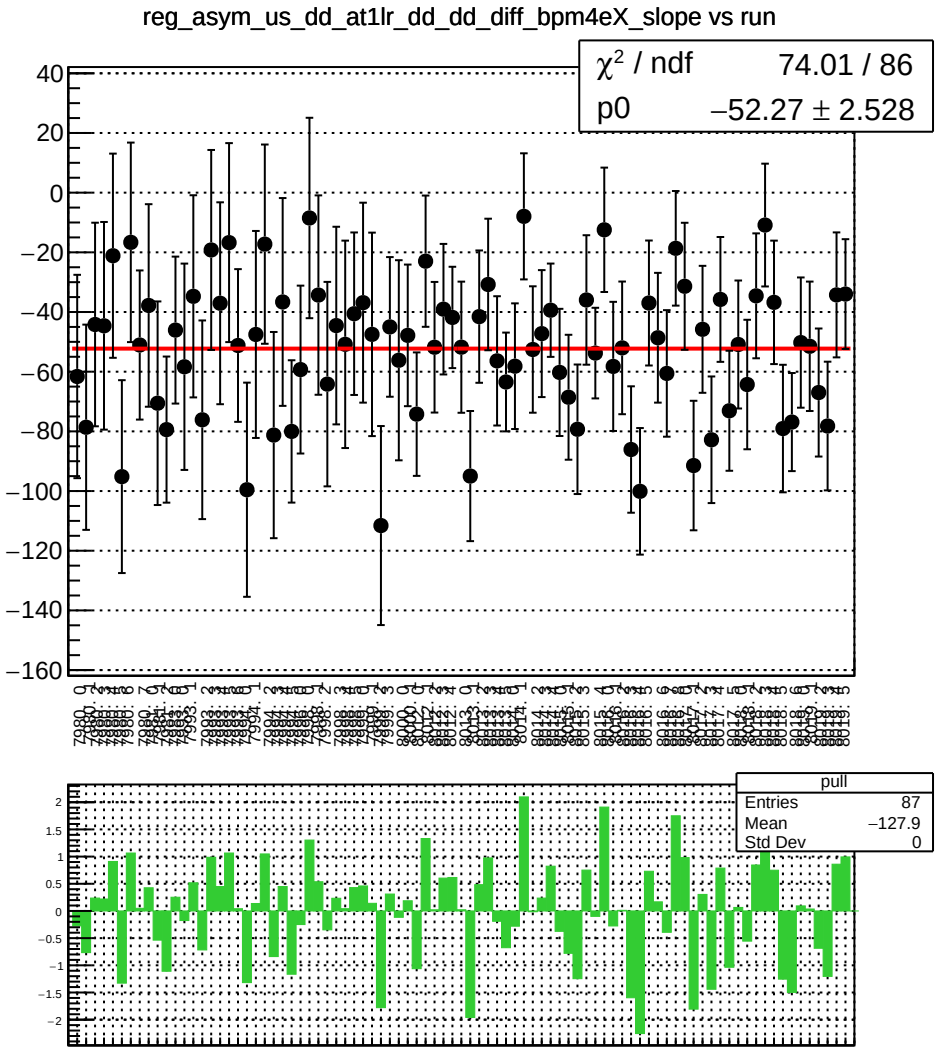

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 71.13 / 86
p0 3.838 ± 4.514
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −4133
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.0005349
Std Dev 0.9042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

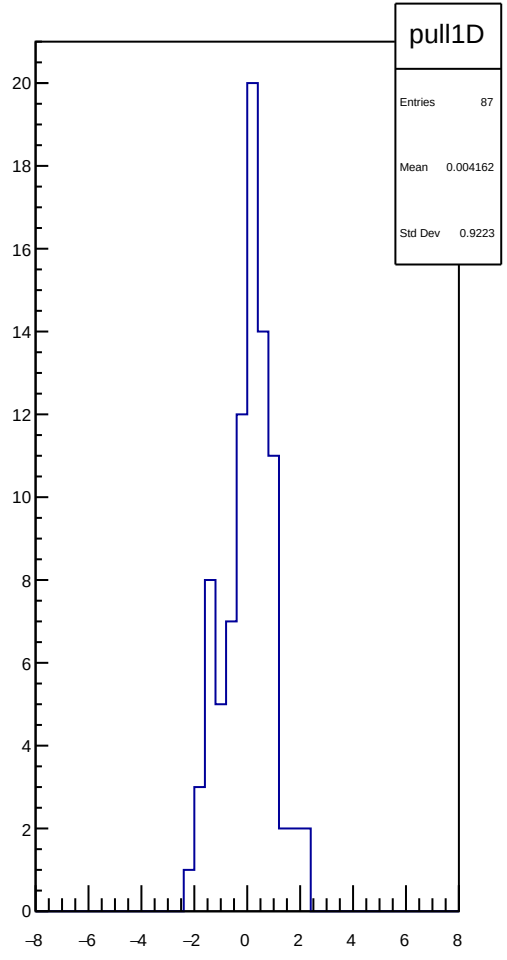

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 119.9 / 86
p0 30.1 ± 0.1668
pull
Entries 87
Mean 85.62
Std Dev 0
pull1D
Entries 87
Mean 0.2034
Std Dev 1.156

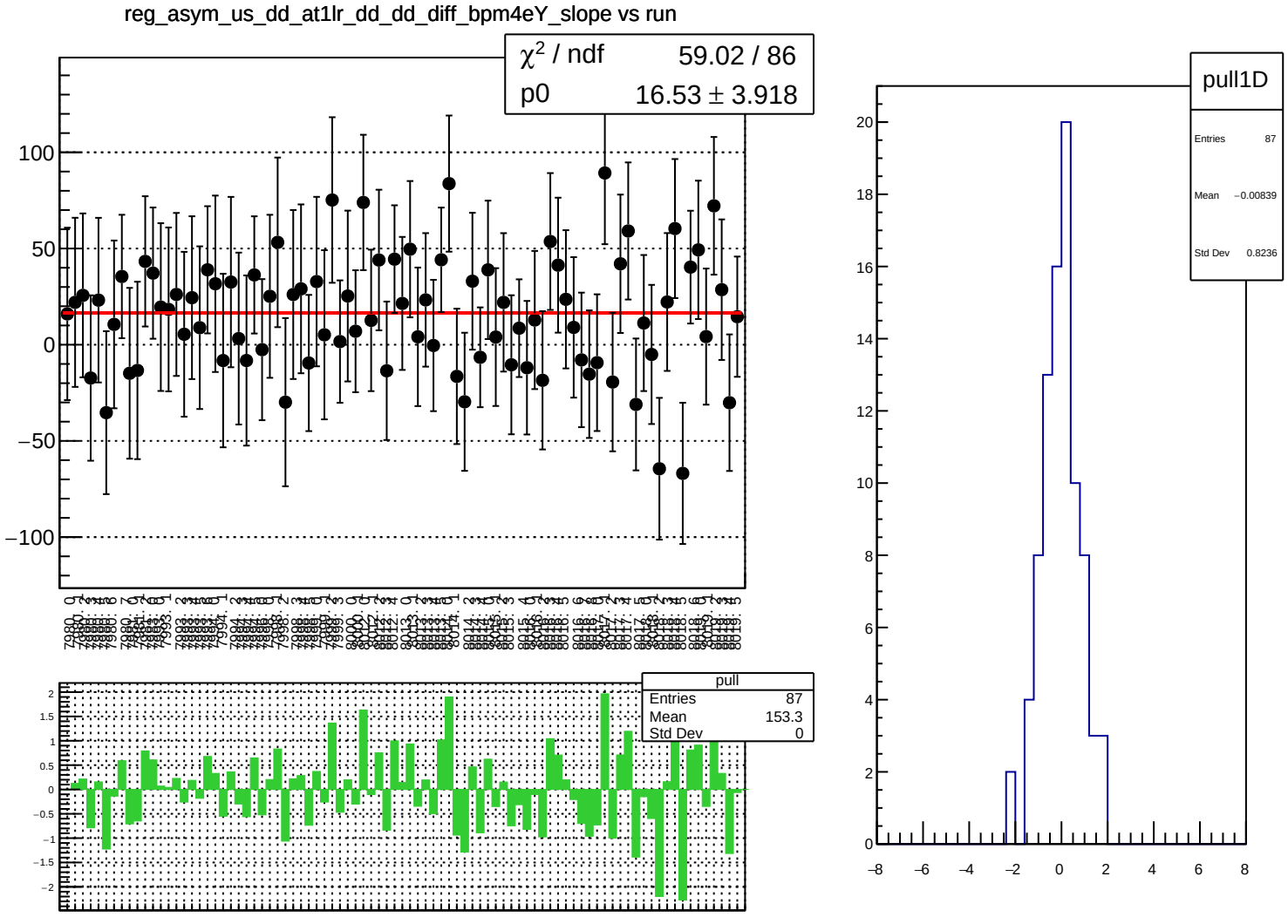

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 72.08 / 86
p0 −59.06 ± 2.469
50
0
−50
−100
−150
pull
Entries 87
Mean −35.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean 0.01631
Std Dev 0.91
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

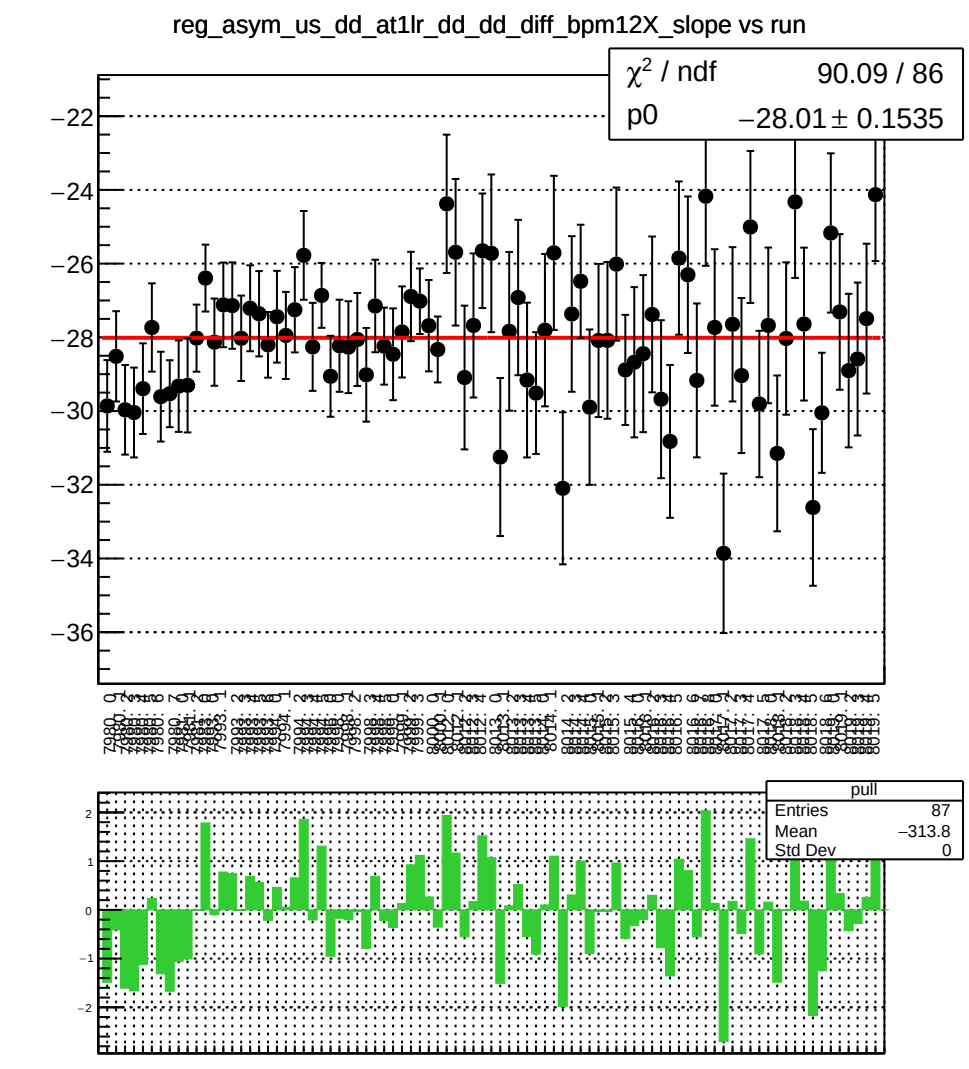

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.66 / 86
p0 −4.325 ± 3.607
100
50
0
−50
−100
pull
Entries 87
Mean 108.6
Std Dev 37.29
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

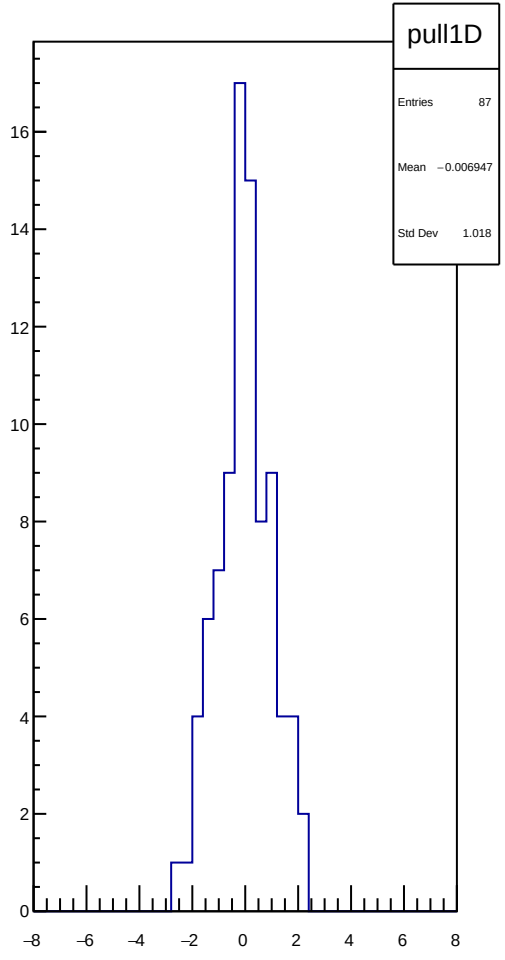

pull1D
Entries 87
Mean 0.008026
Std Dev 0.8281
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

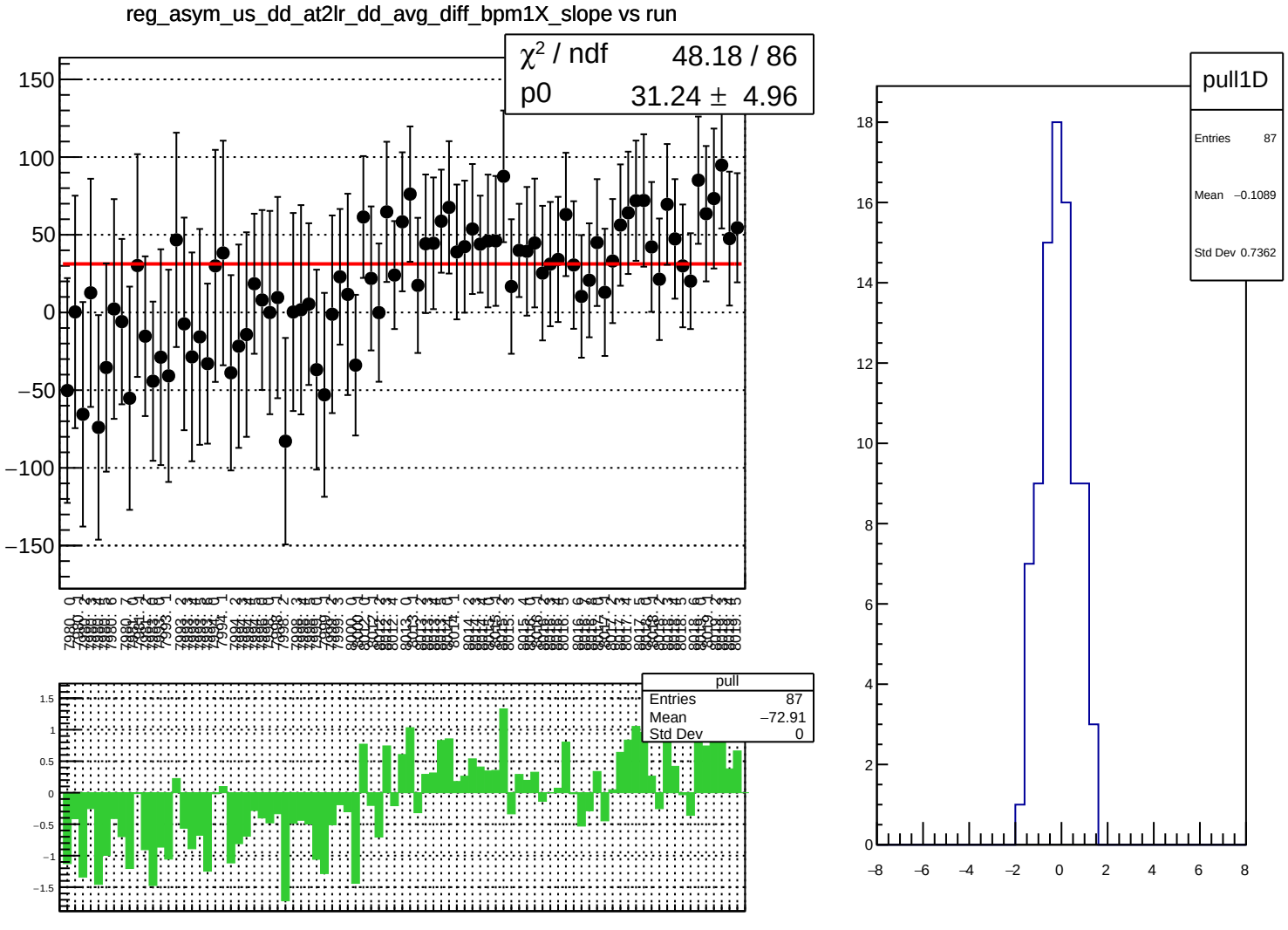

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.01 / 86
p0 −52.27 ± 2.528
pull
Entries 87
Mean −127.9
Std Dev 0

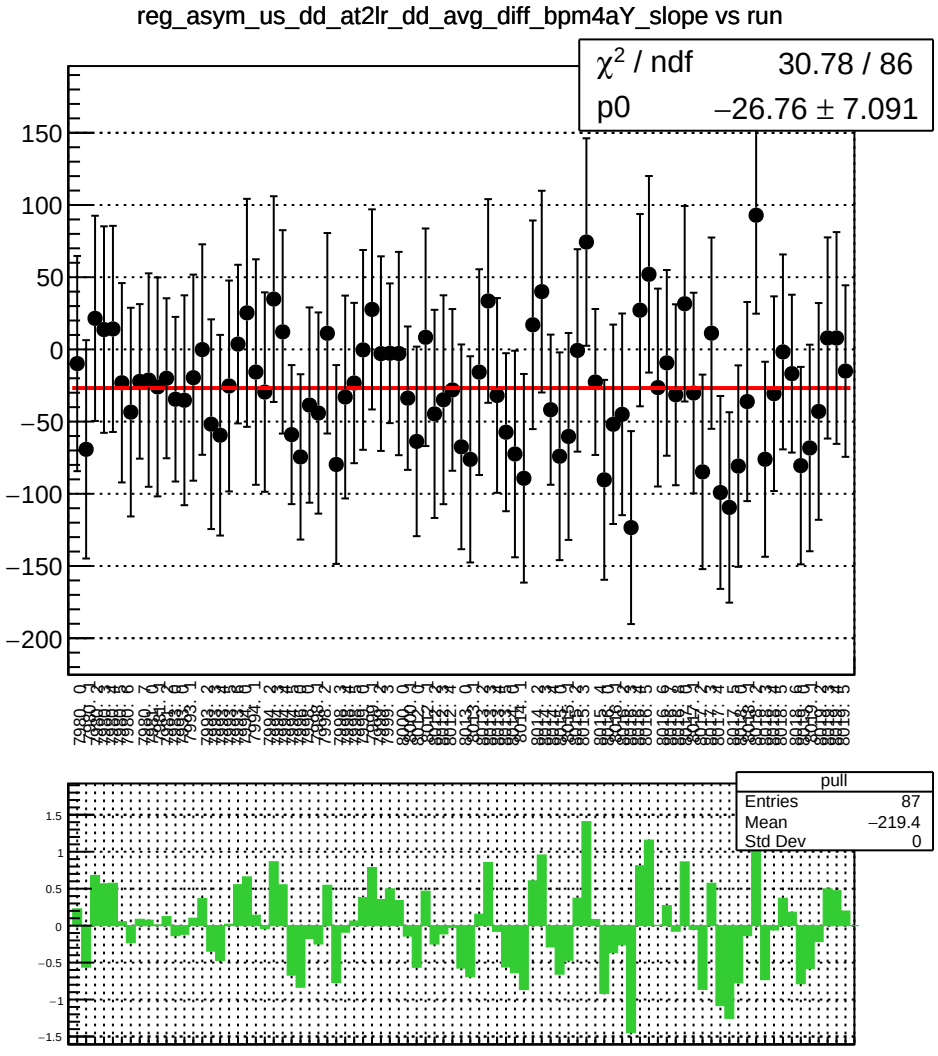

pull1D
Entries 87
Mean 0.004162
Std Dev 0.9223

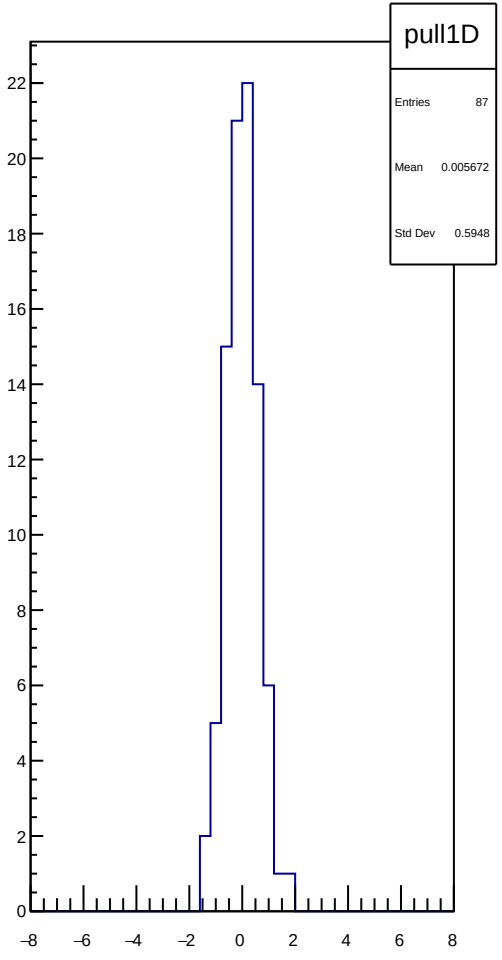

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.02 / 86
p0 16.53 ± 3.918
pull
Entries 87
Mean 153.3
Std Dev 0
pull1D
Entries 87
Mean −0.00839
Std Dev 0.8236

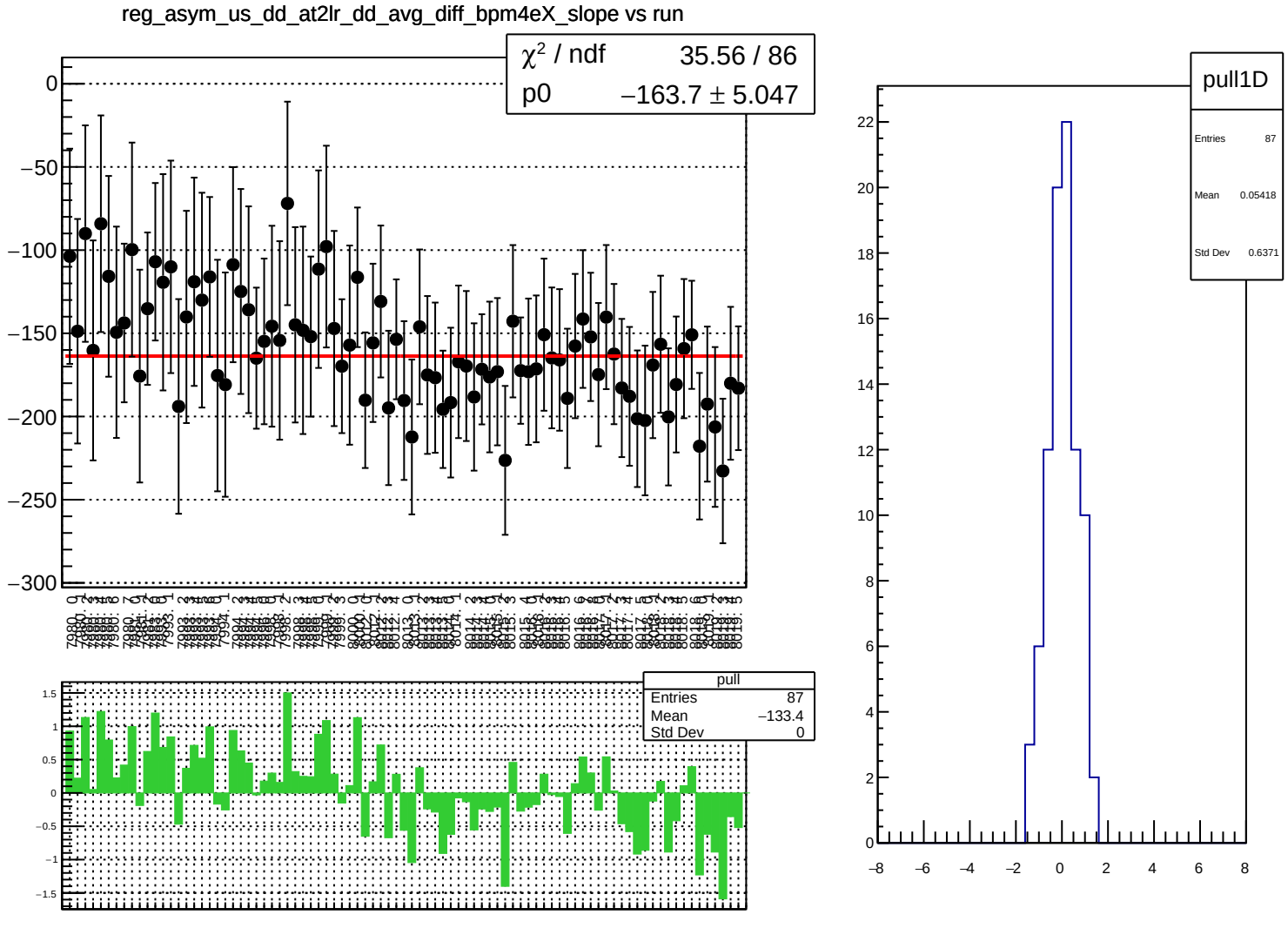

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 90.09 / 86
p0 −28.01 ± 0.1535
pull
Entries 87
Mean −313.8
Std Dev 0

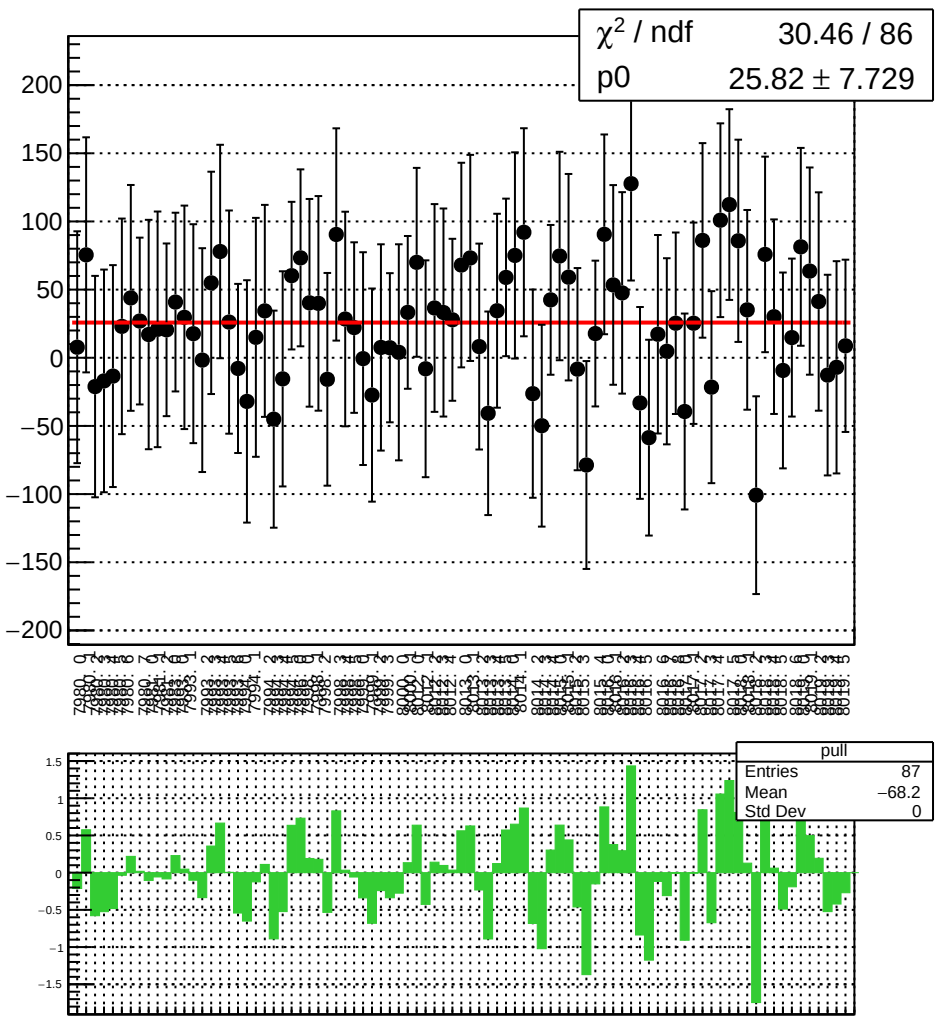

pull1D
Entries 87
Mean −0.006947
Std Dev 1.018

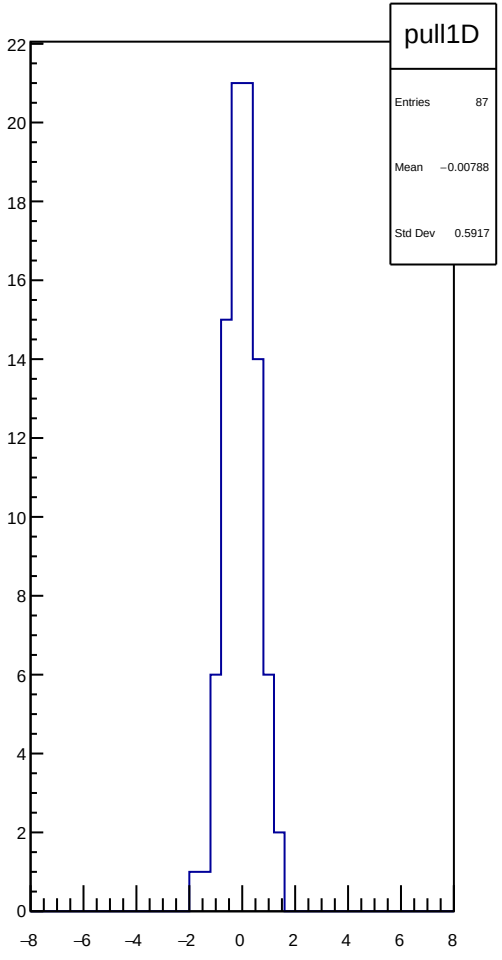

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 48.18 / 86
p0 31.24 ± 4.96
pull
Entries 87
Mean −72.91
Std Dev 0
pull1D
Entries 87
Mean −0.1089
Std Dev 0.7362

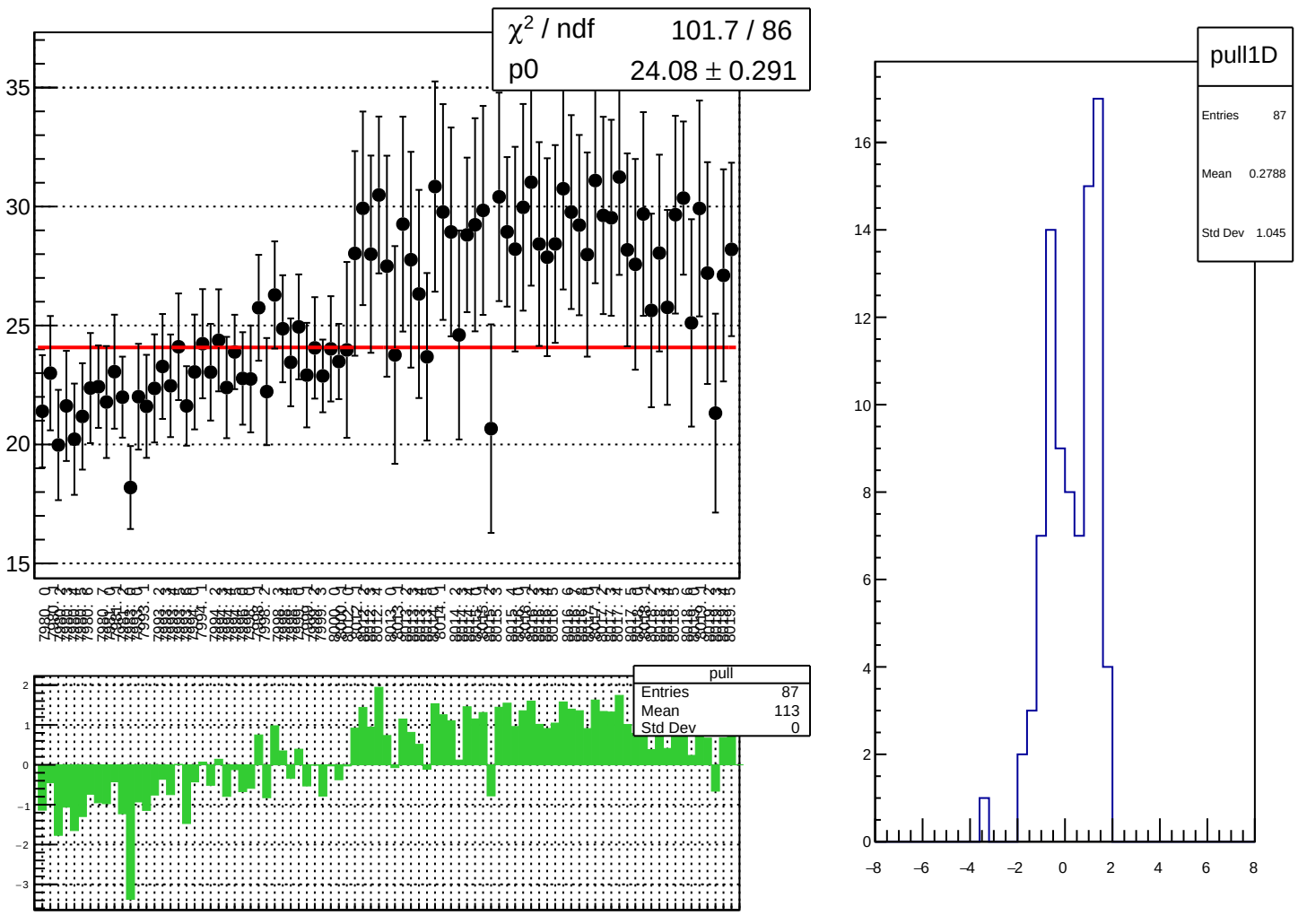

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.78 / 86
p0 −26.76 ± 7.091
pull
Entries 87
Mean −219.4
Std Dev 0

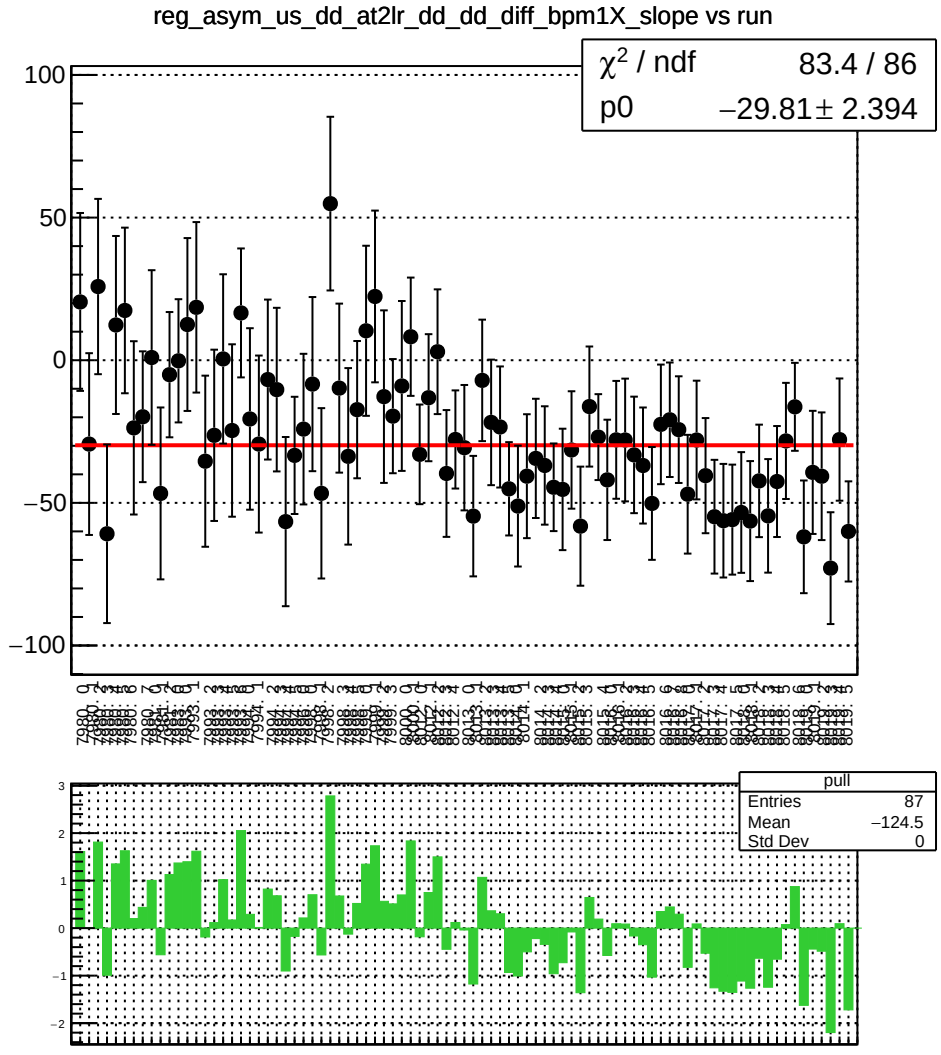

pull1D
Entries 87
Mean 0.005672
Std Dev 0.5948

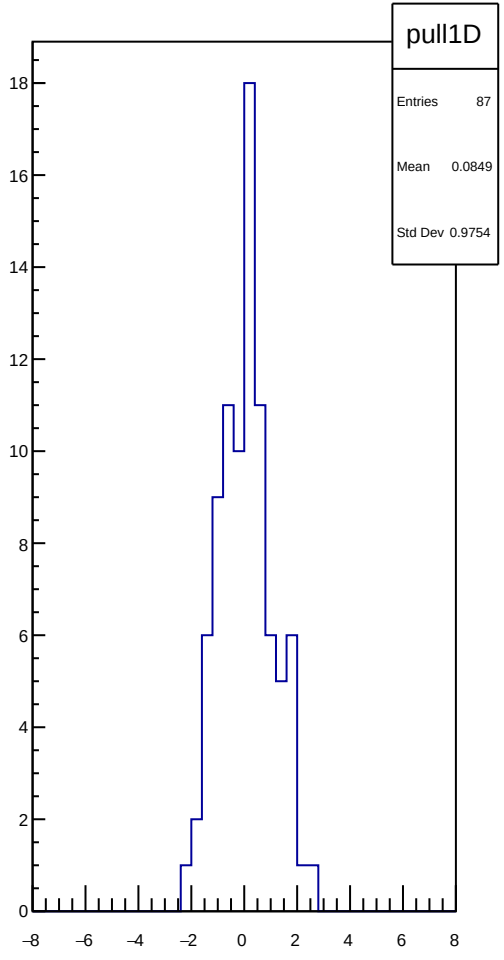

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.56 / 86
p0 −163.7 ± 5.047
pull
Entries 87
Mean −133.4
Std Dev 0
pull1D
Entries 87
Mean 0.05418
Std Dev 0.6371

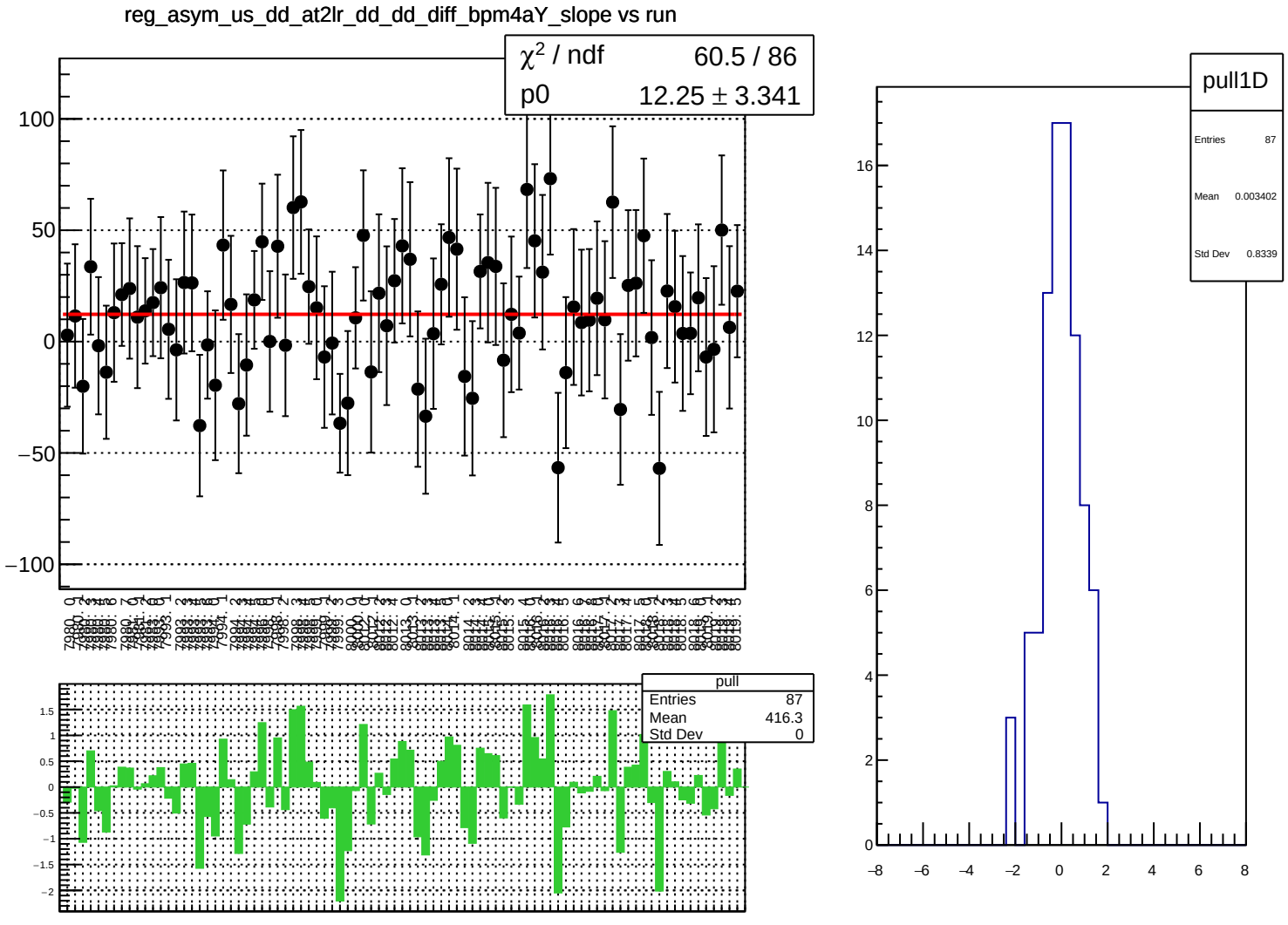

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.46 / 86
p0 25.82 ± 7.729
pull
Entries 87
Mean −68.2
Std Dev 0

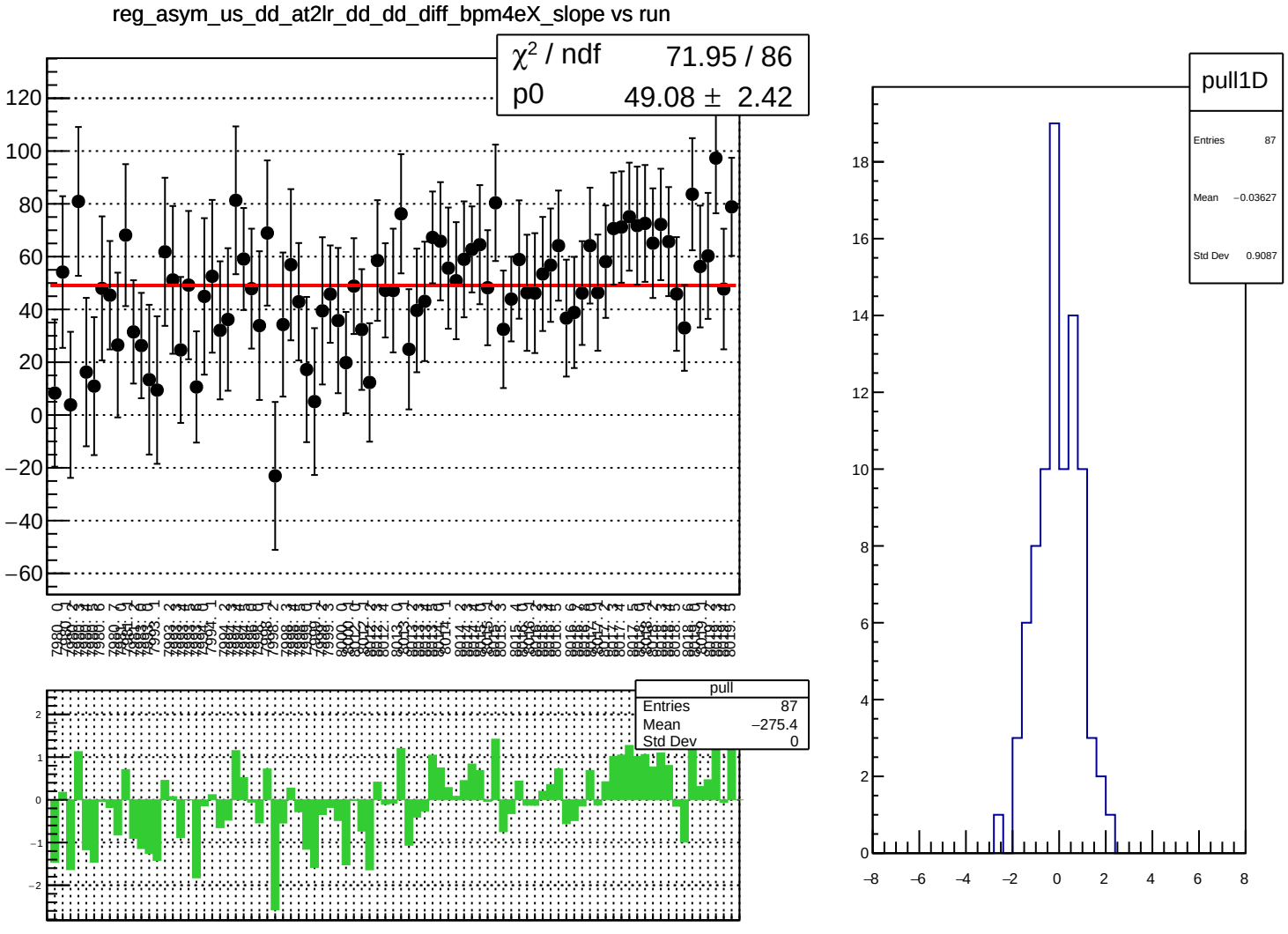

pull1D
Entries 87
Mean −0.00788
Std Dev 0.5917

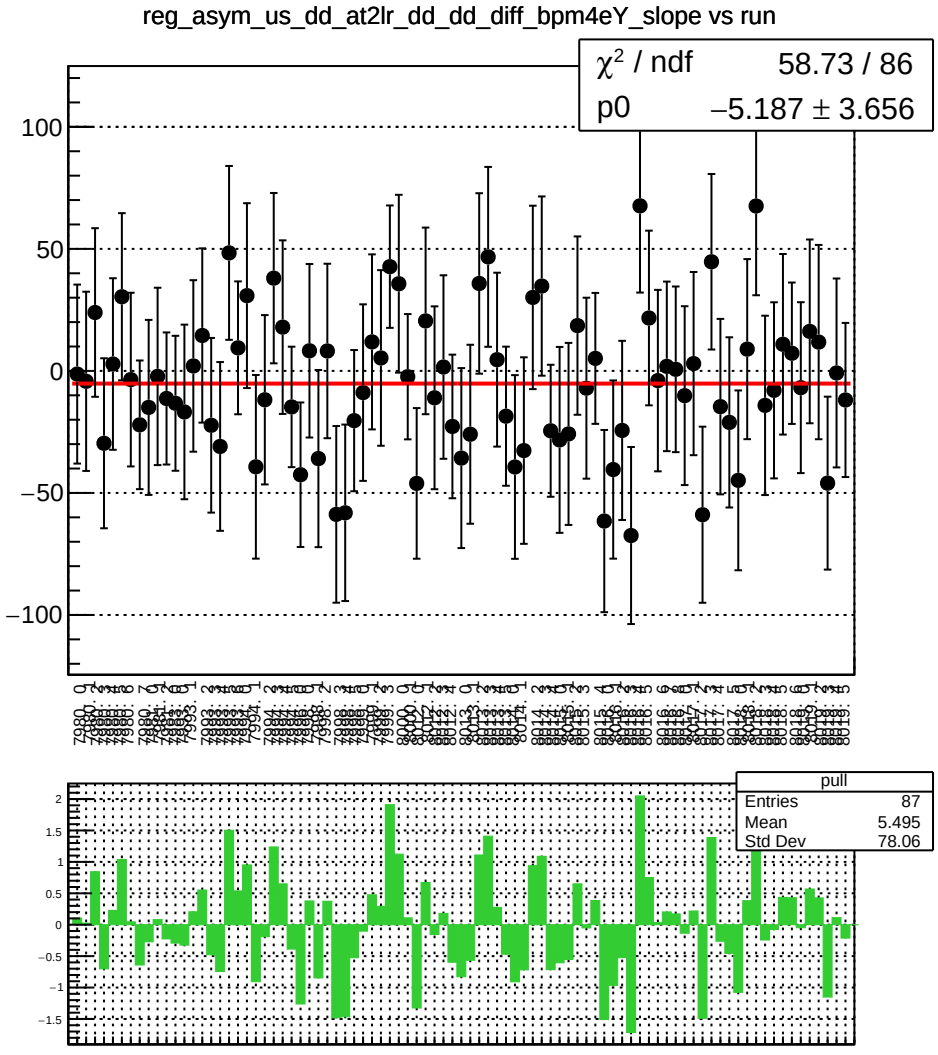

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 101.7 / 86
p0 24.08 ± 0.291
pull
Entries 87
Mean 113
Std Dev 0
pull1D
Entries 87
Mean 0.2788
Std Dev 1.045

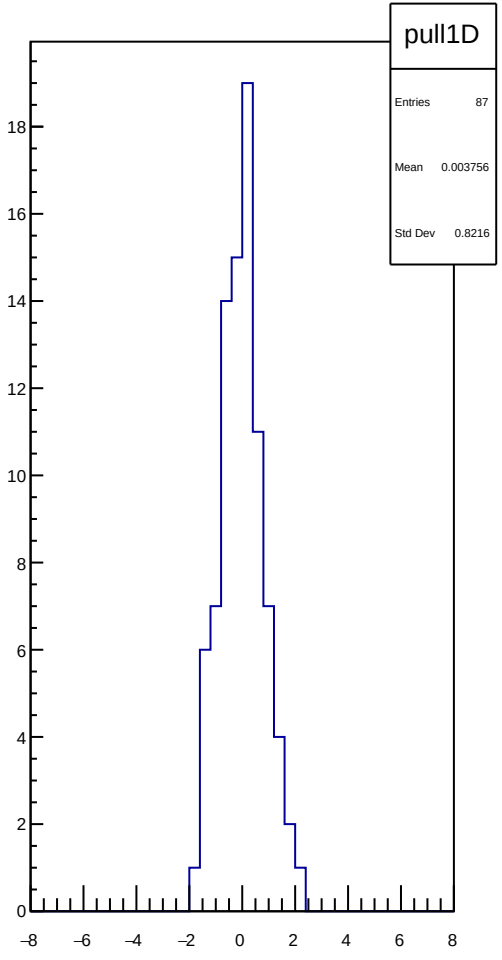

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 83.4 / 86
p0 −29.81 ± 2.394
100
50
0
−50
−100
pull
Entries 87
Mean −124.5
Std Dev 0
3
2
1
0
−1
−2

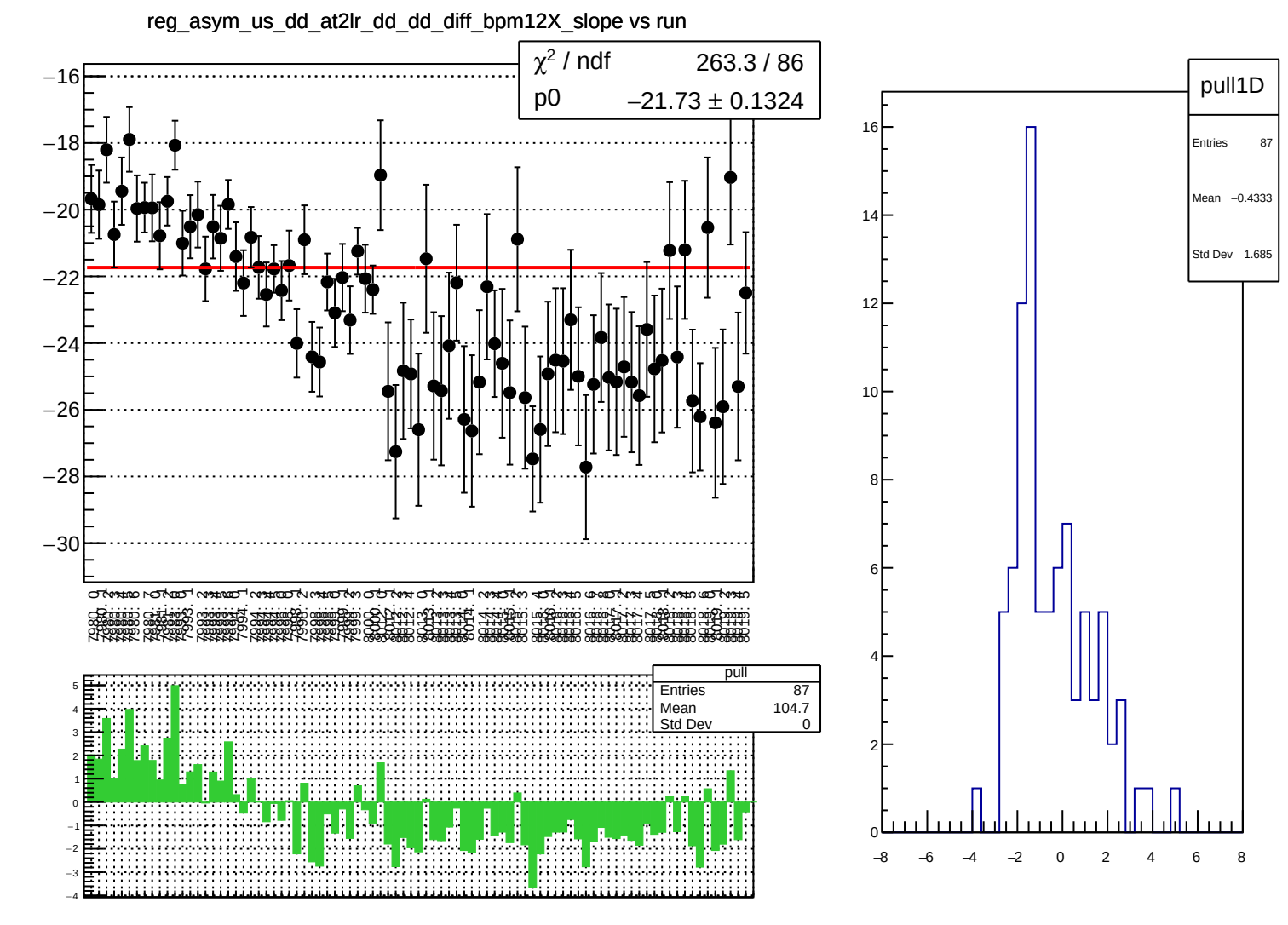

pull1D
Entries 87
Mean 0.0849
Std Dev 0.9754
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

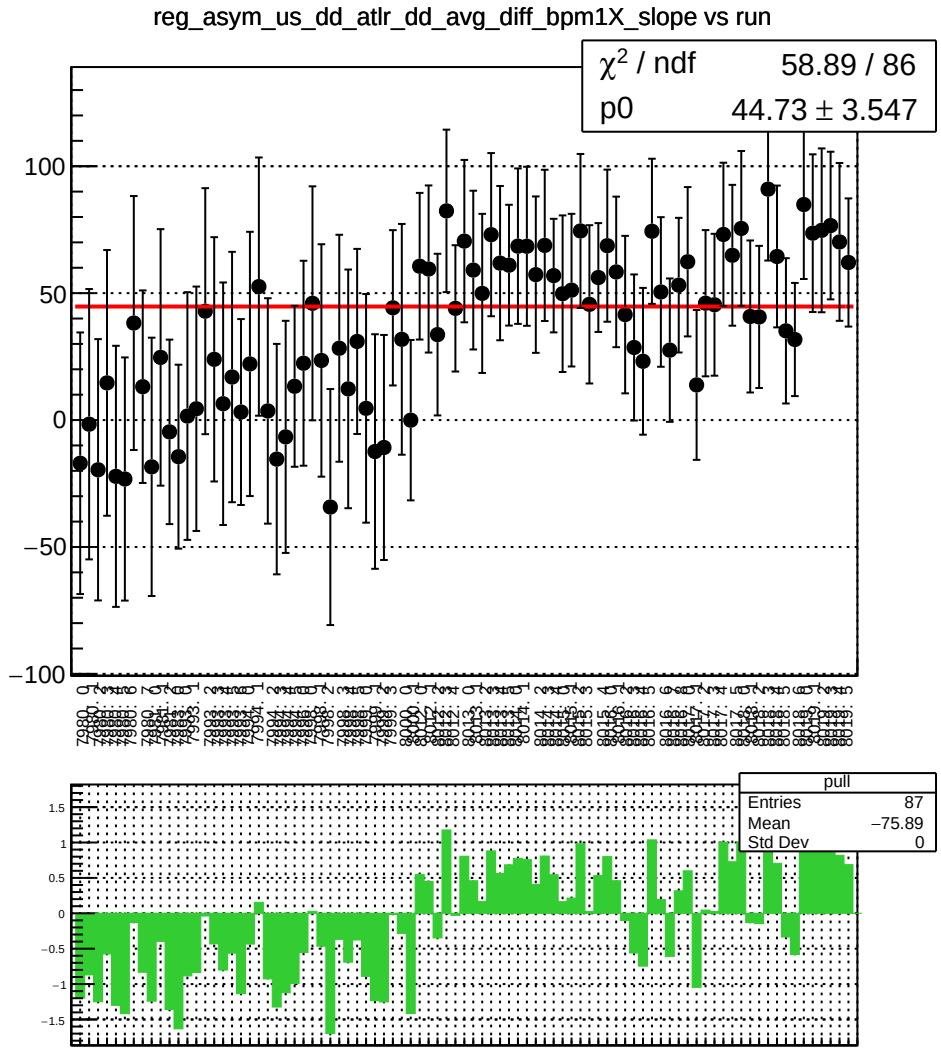

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.5 / 86
p0 12.25 ± 3.341
100
50
0
−50
−100
pull
Entries 87
Mean 416.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean 0.003402
Std Dev 0.8339
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

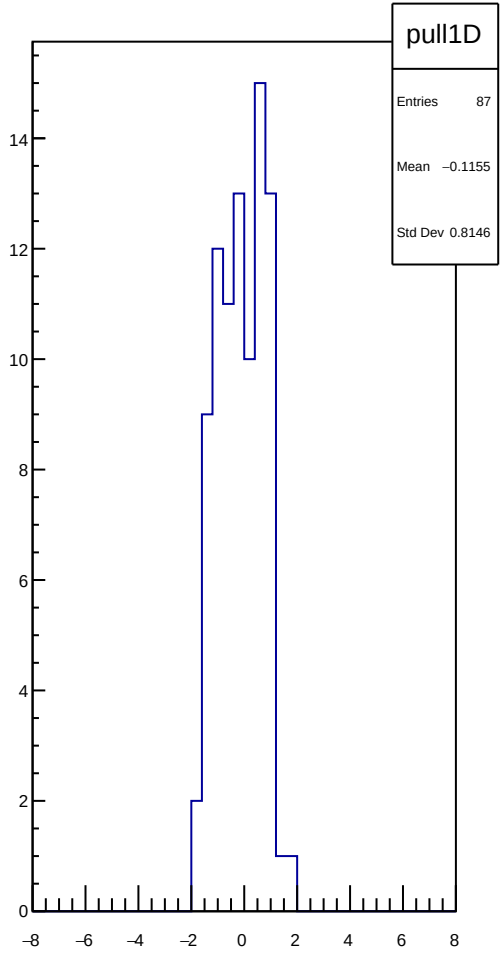

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.95 / 86
p0 49.08 ± 2.42
pull
Entries 87
Mean −275.4
Std Dev 0
pull1D
Entries 87
Mean −0.03627
Std Dev 0.9087

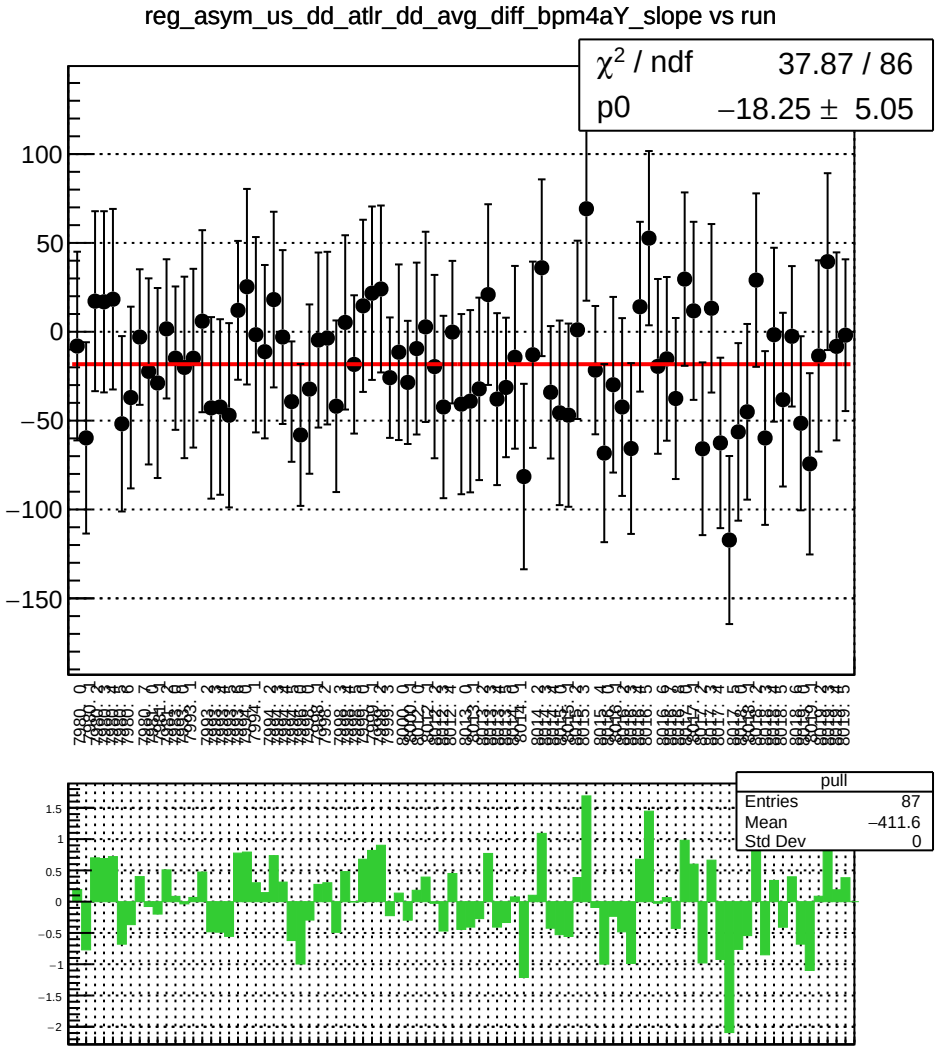

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.73 / 86
p0 −5.187 ± 3.656
100
50
0
−50
−100
pull
Entries 87
Mean 5.495
Std Dev 78.06
2
1.5
1
0.5
0
−0.5
−1
−1.5

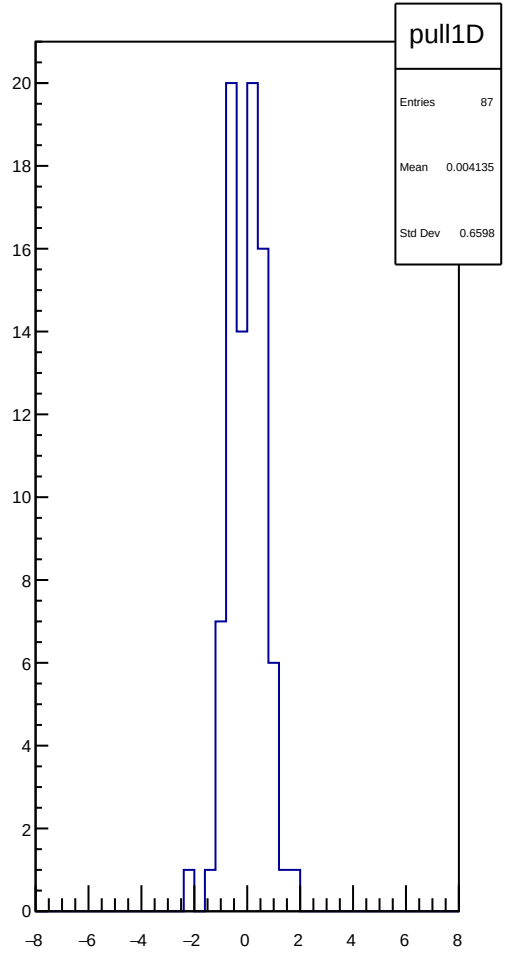

pull1D
Entries 87
Mean 0.003756
Std Dev 0.8216
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

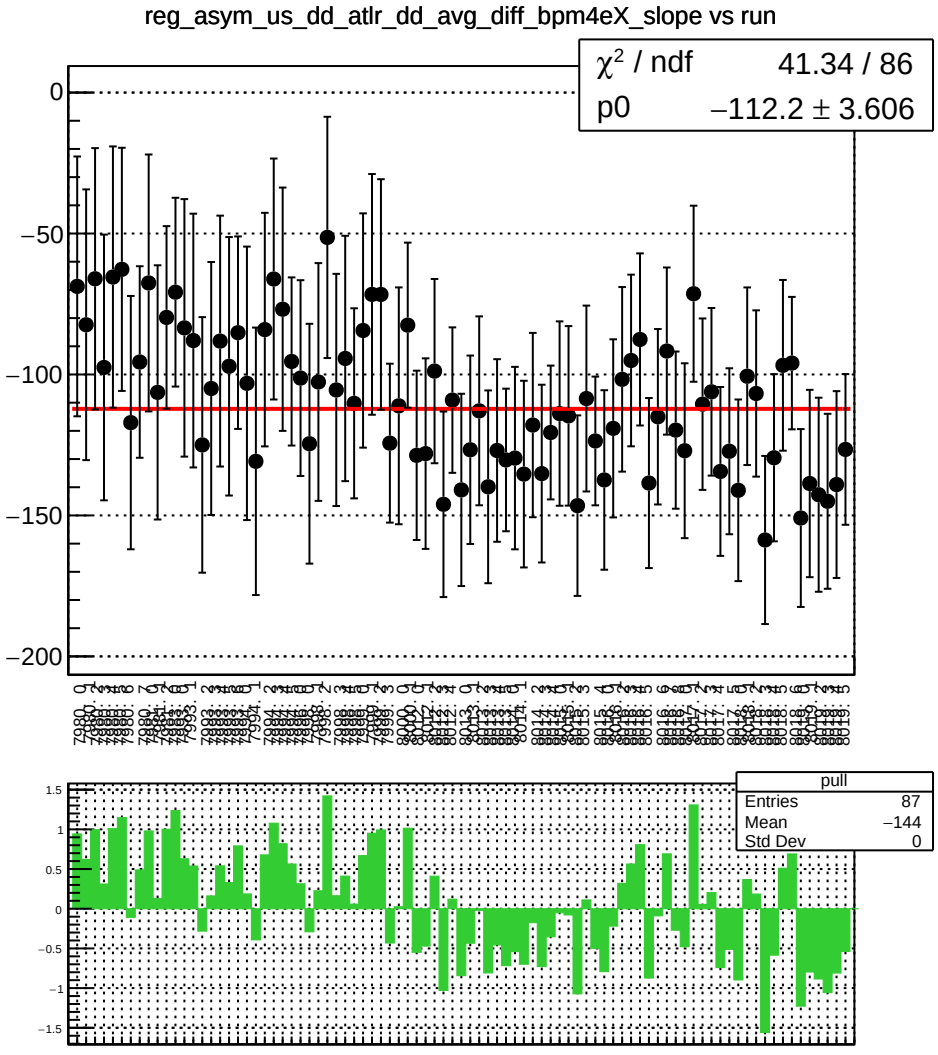

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 263.3 / 86
p0 −21.73 ± 0.1324
pull
Entries 87
Mean 104.7
Std Dev 0
pull1D
Entries 87
Mean −0.4333
Std Dev 1.685

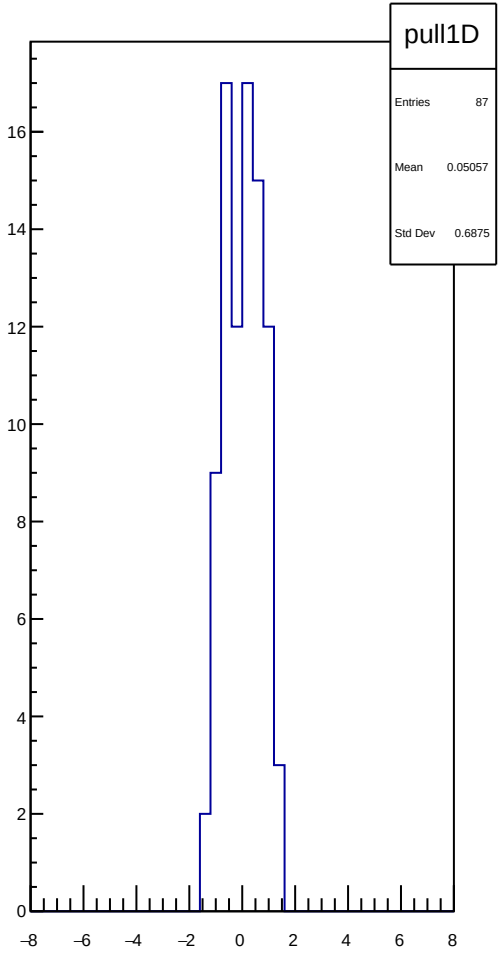

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 58.89 / 86
p0 44.73 ± 3.547
pull
Entries 87
Mean −75.89
Std Dev 0

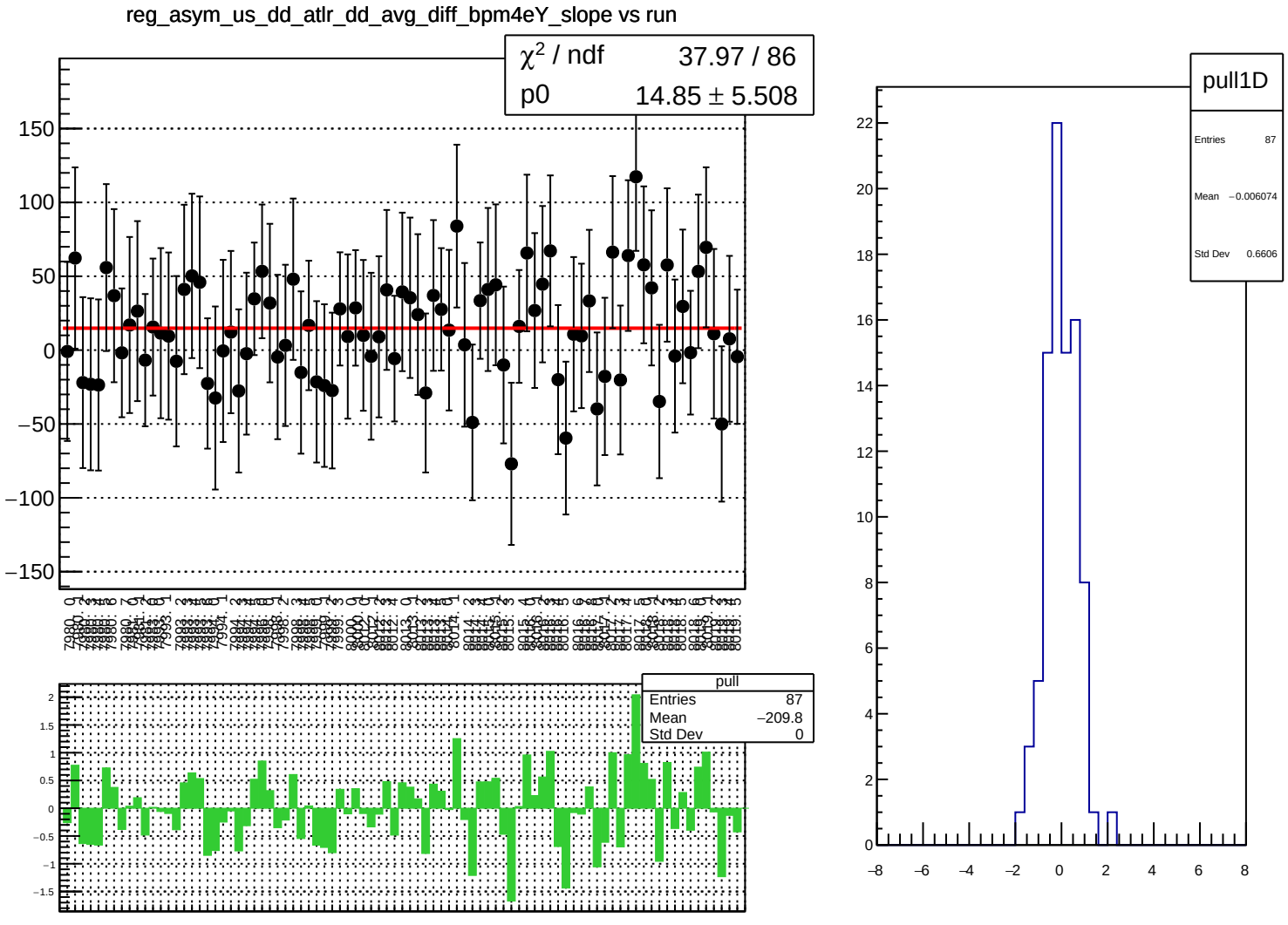

pull1D
Entries 87
Mean −0.1155
Std Dev 0.8146

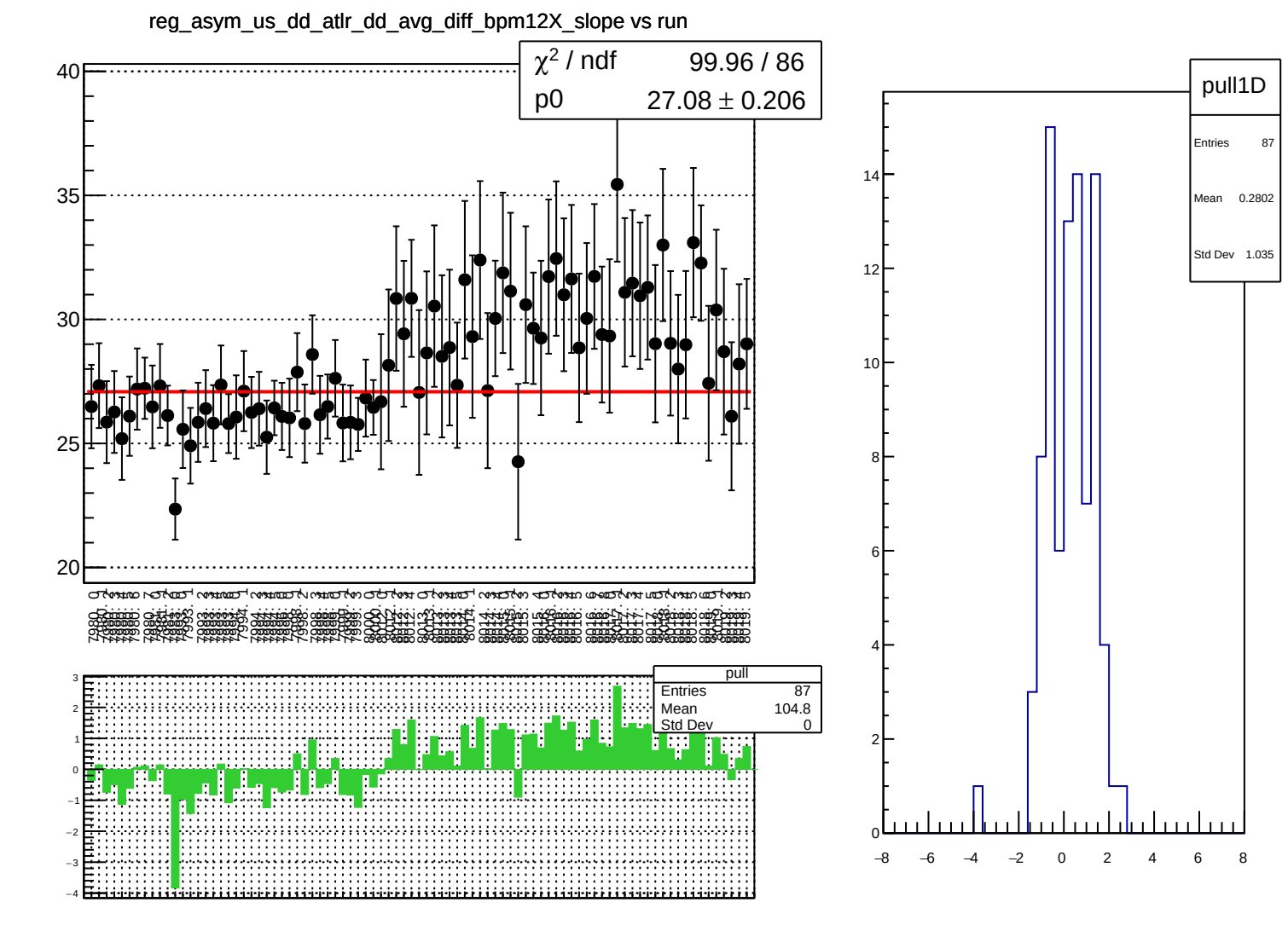

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.87 / 86
p0 −18.25 ± 5.05
100
50
0
−50
−100
−150
pull
Entries 87
Mean −411.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

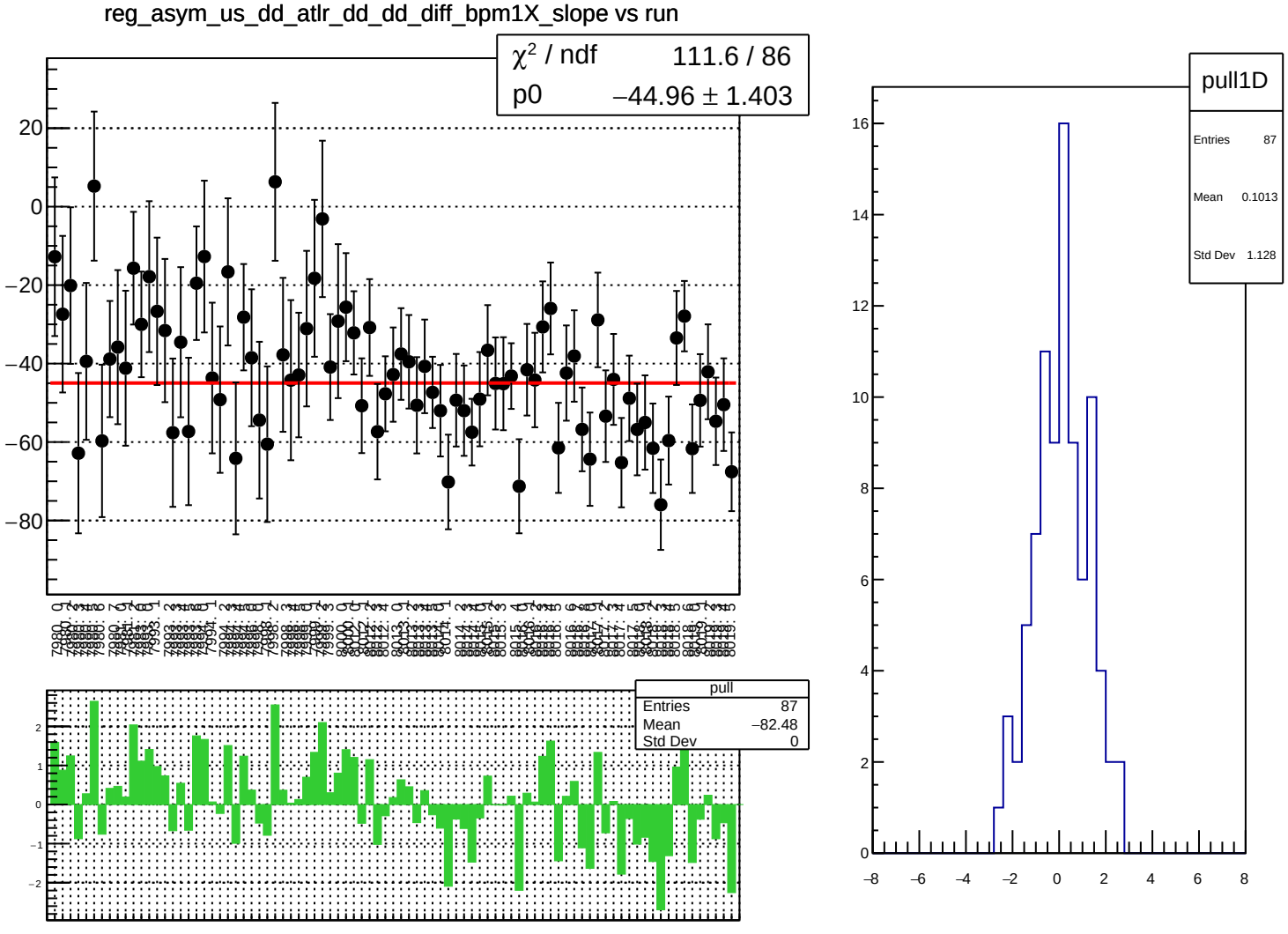

pull1D
Entries 87
Mean 0.004135
Std Dev 0.6598
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

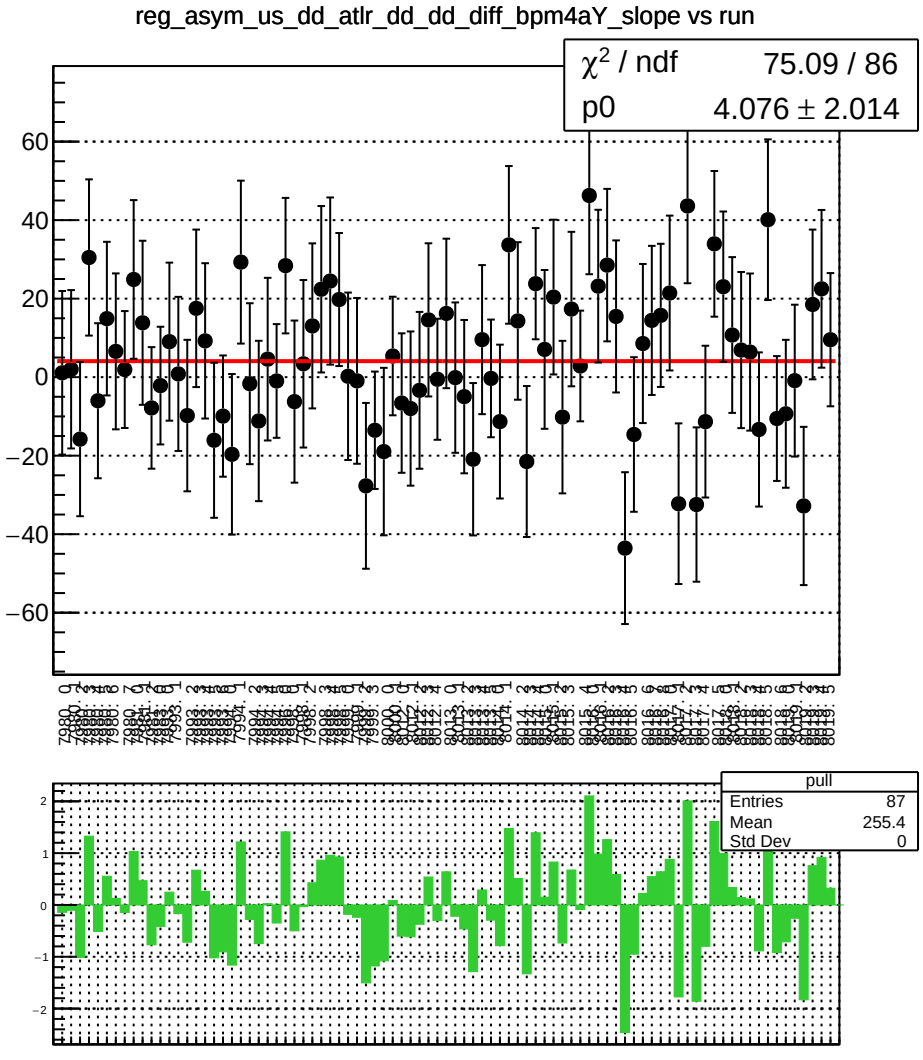

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.34 / 86
p0 −112.2 ± 3.606
pull
Entries 87
Mean −144
Std Dev 0

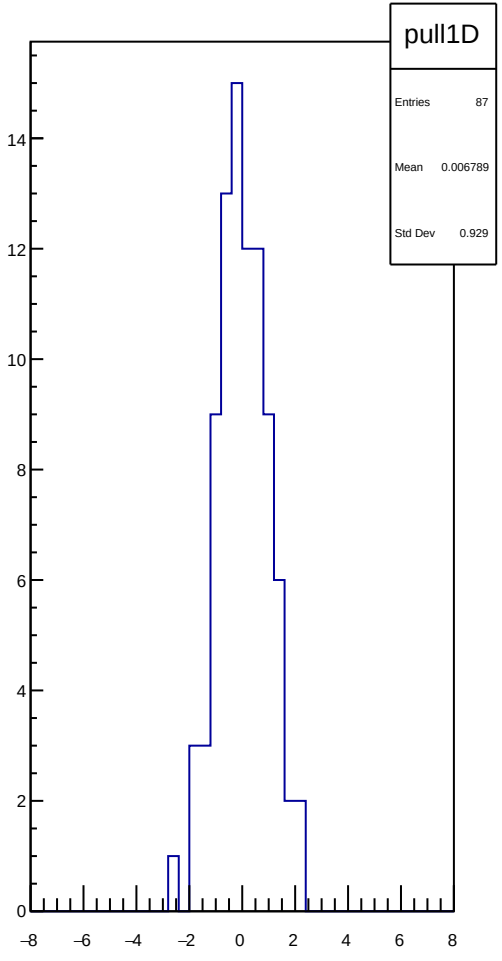

pull1D
Entries 87
Mean 0.05057
Std Dev 0.6875

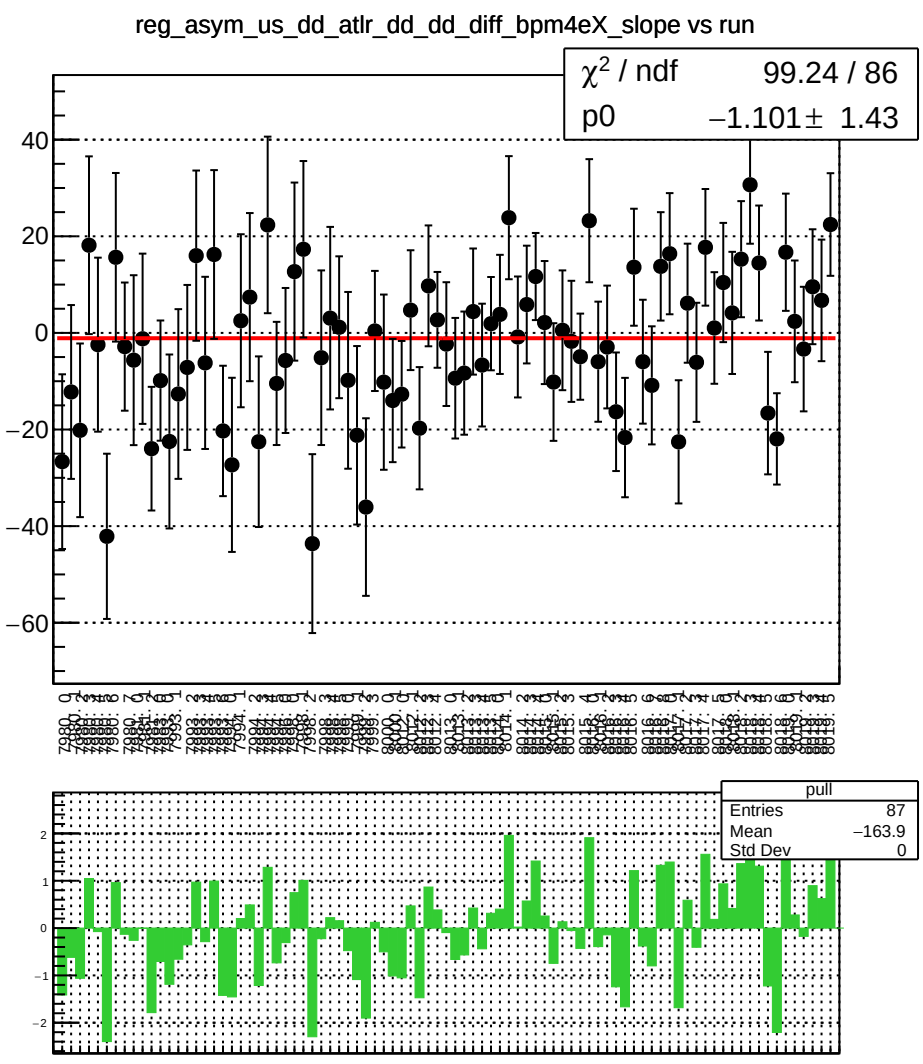

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.97 / 86
p0 14.85 ± 5.508
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −209.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.006074
Std Dev 0.6606
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

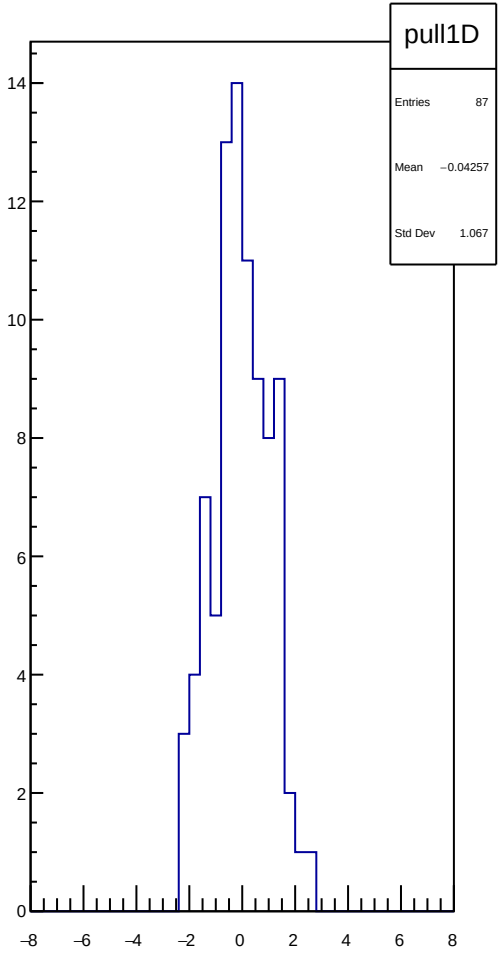

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 99.96 / 86
p0 27.08 ± 0.206
pull
Entries 87
Mean 104.8
Std Dev 0
pull1D
Entries 87
Mean 0.2802
Std Dev 1.035

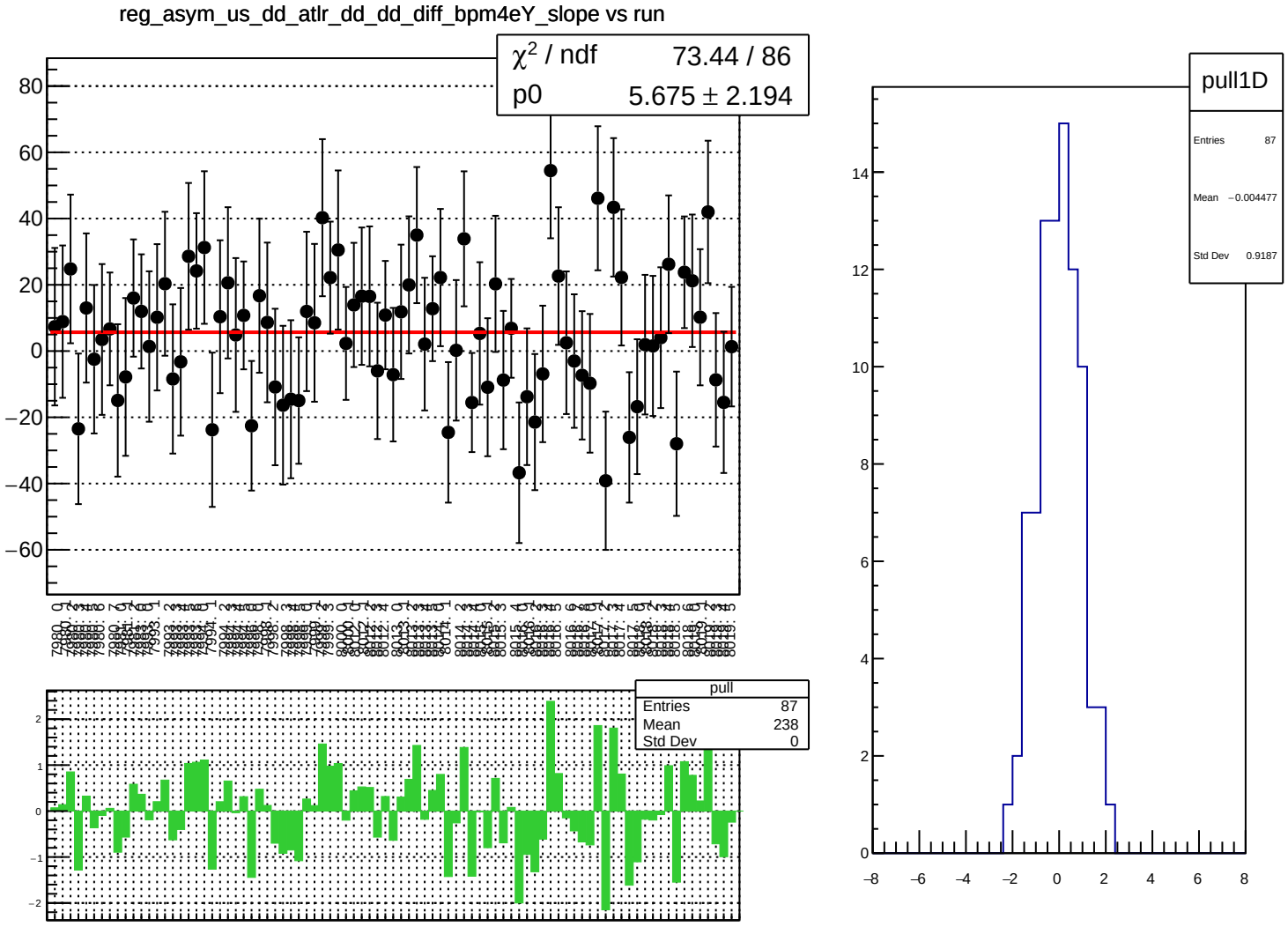

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 111.6 / 86
p0 −44.96 ± 1.403
pull
Entries 87
Mean −82.48
Std Dev 0
pull1D
Entries 87
Mean 0.1013
Std Dev 1.128

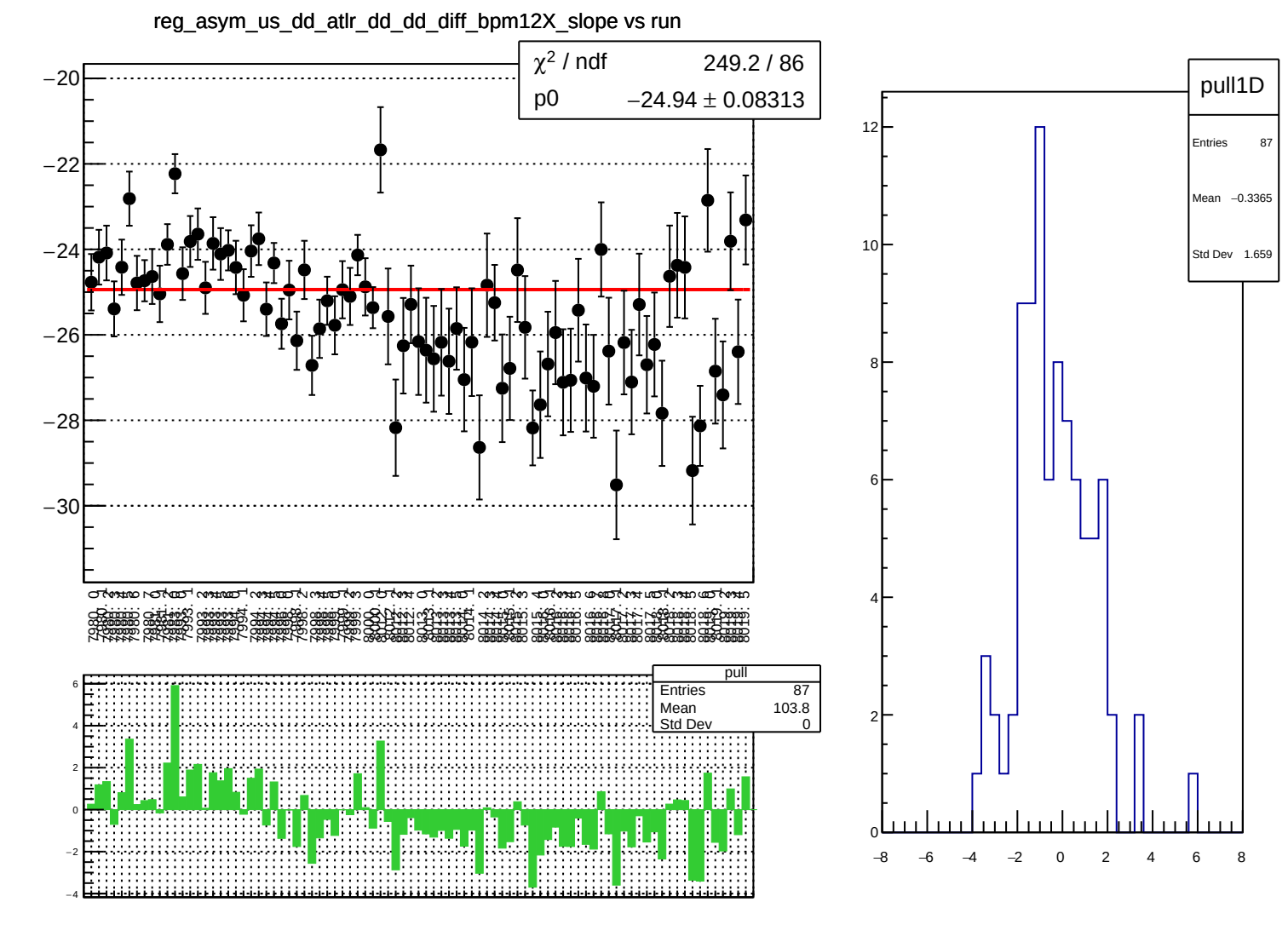

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.09 / 86
p0 4.076 ± 2.014
pull
Entries 87
Mean 255.4
Std Dev 0

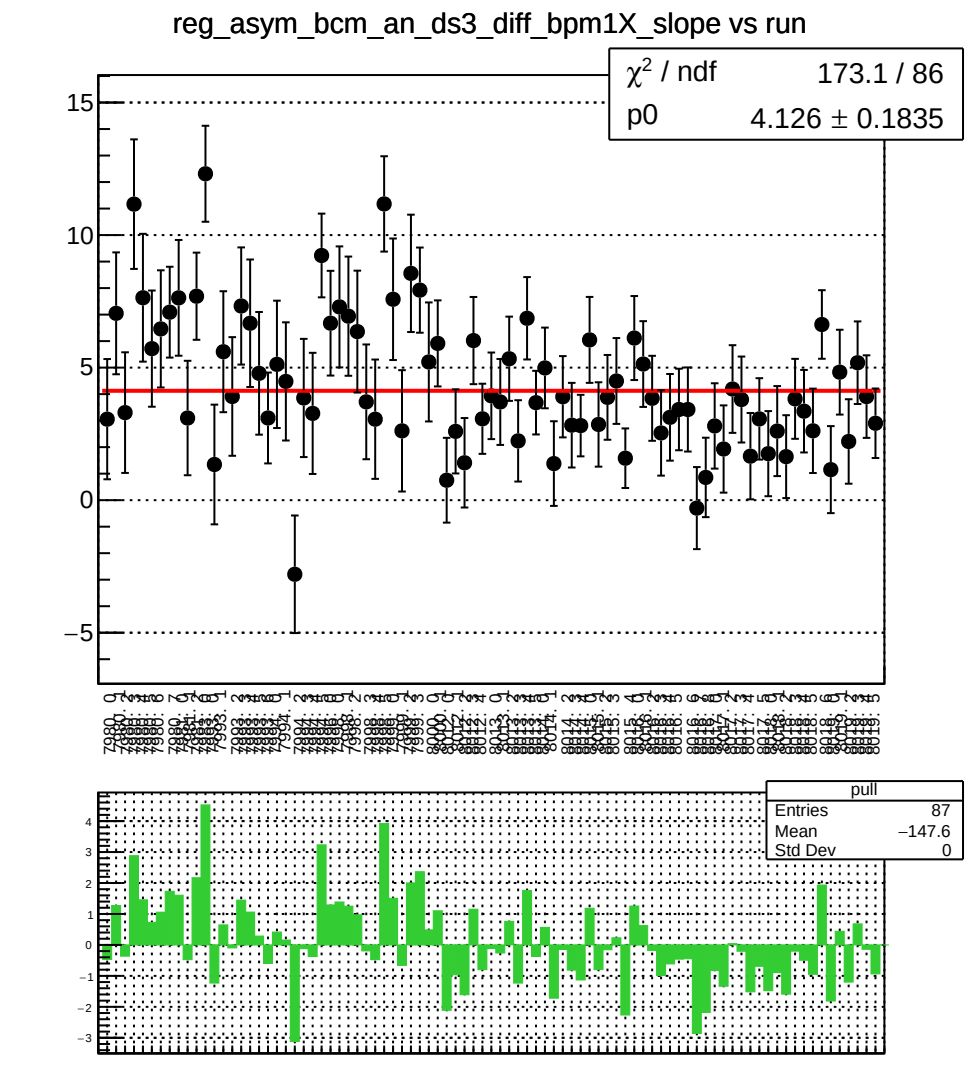

pull1D
Entries 87
Mean 0.006789
Std Dev 0.929

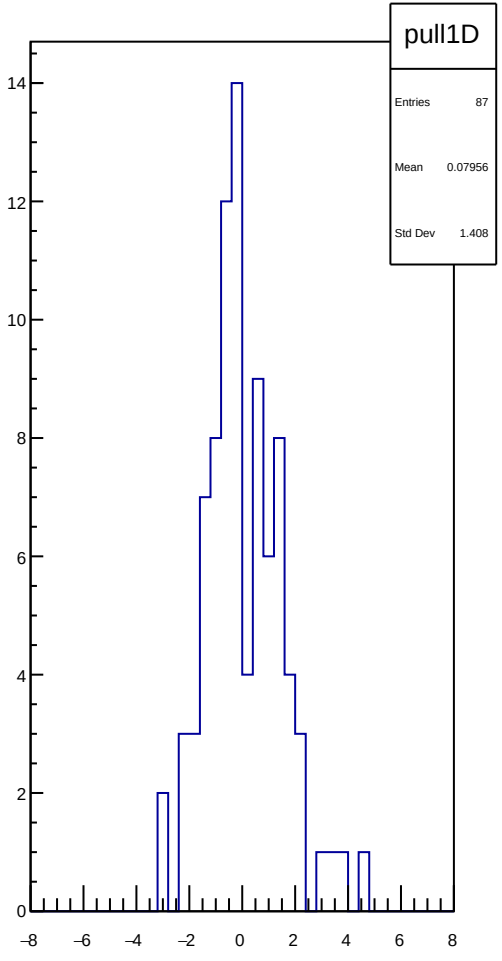

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 99.24 / 86
p0 −1.101 ± 1.43
pull
Entries 87
Mean −163.9
Std Dev 0

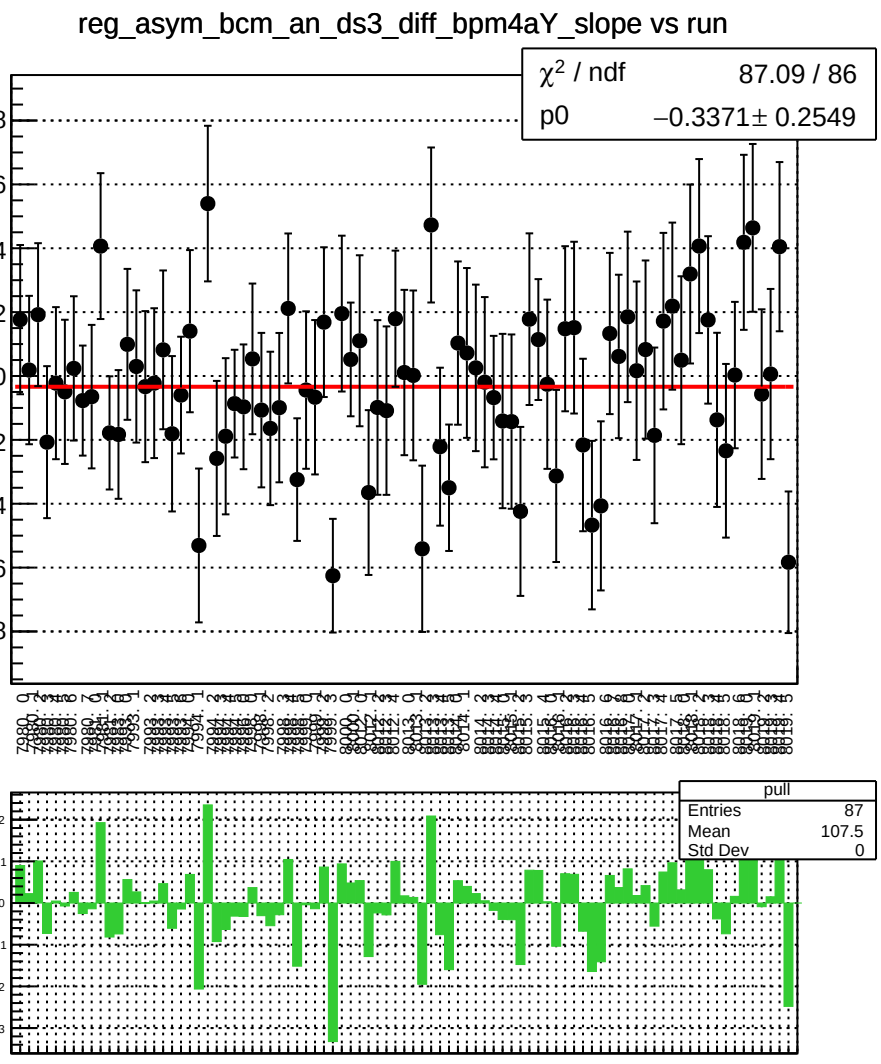

pull1D
Entries 87
Mean −0.04257
Std Dev 1.067

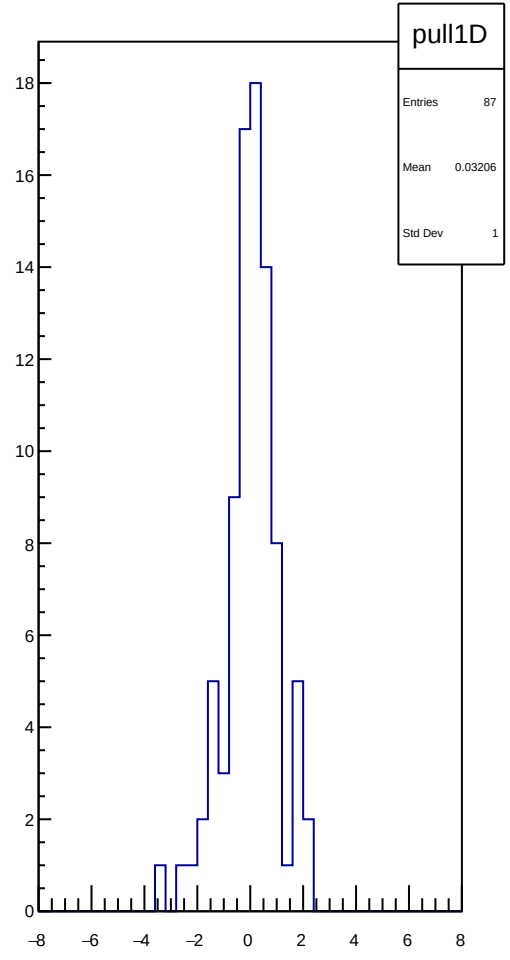

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.44 / 86
p0 5.675 ± 2.194
pull
Entries 87
Mean 238
Std Dev 0
pull1D
Entries 87
Mean −0.004477
Std Dev 0.9187

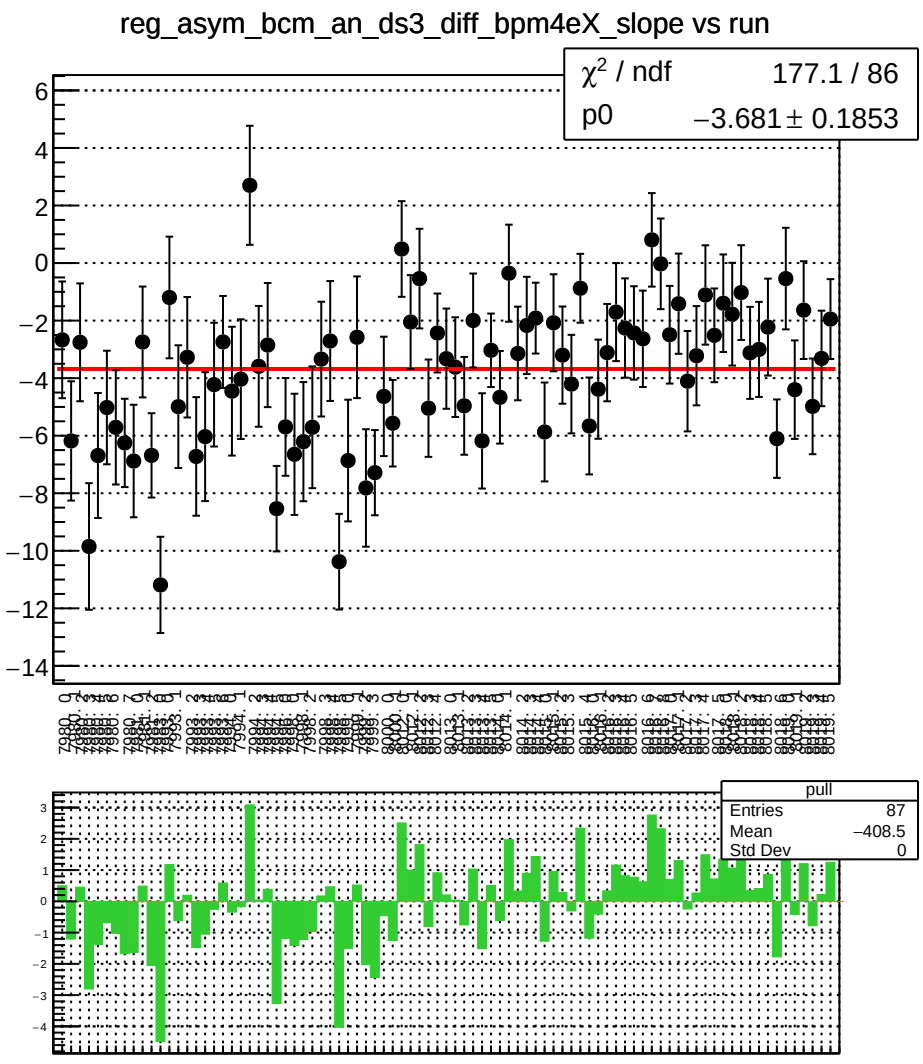

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 249.2 / 86
p0 −24.94 ± 0.08313
pull
Entries 87
Mean 103.8
Std Dev 0
pull1D
Entries 87
Mean −0.3365
Std Dev 1.659

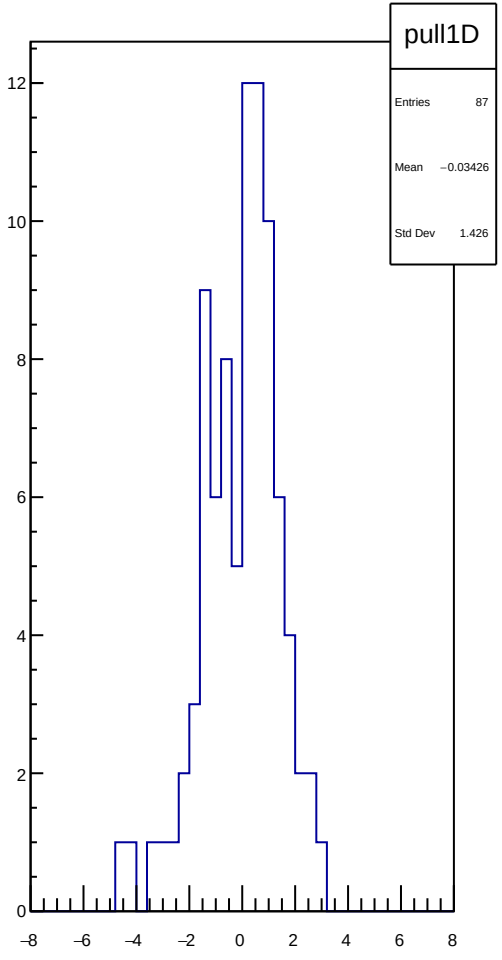

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 173.1 / 86
p0 4.126 ± 0.1835
pull
Entries 87
Mean −147.6
Std Dev 0

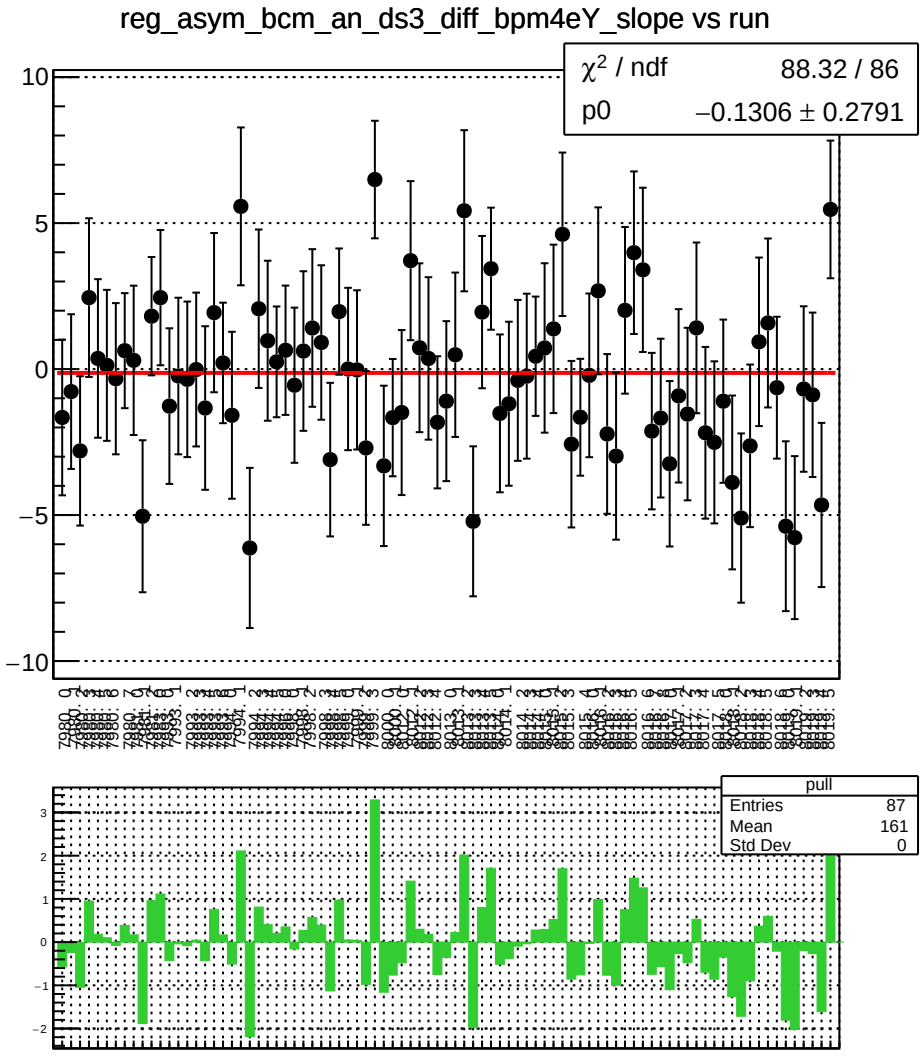

pull1D
Entries 87
Mean 0.07956
Std Dev 1.408

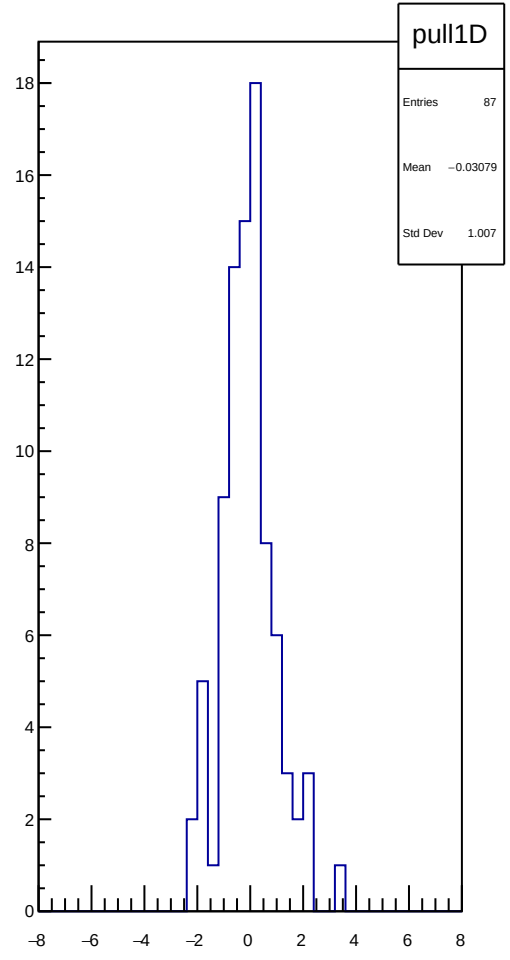

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 87.09 / 86
p0 −0.3371± 0.2549
pull
Entries 87
Mean 107.5
Std Dev 0

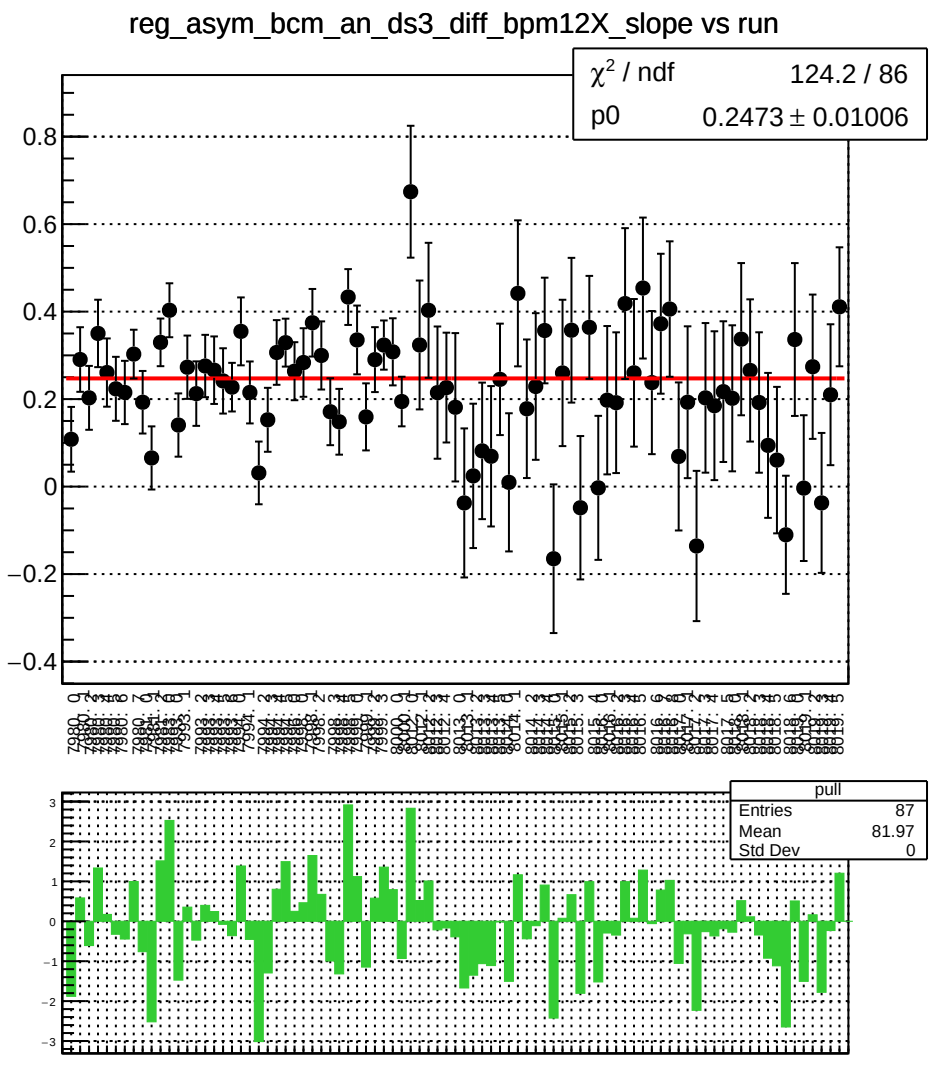

pull1D
Entries 87
Mean 0.03206
Std Dev 1

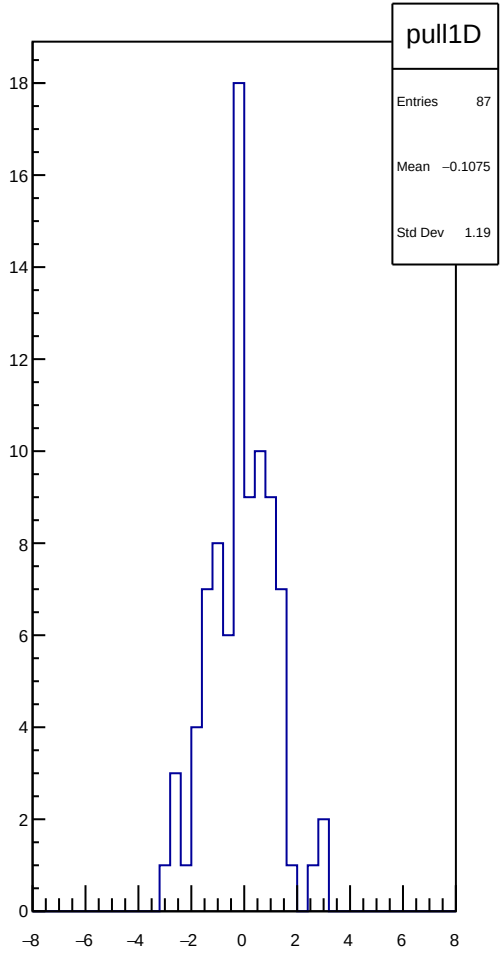

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 177.1 / 86
p0 −3.681 ± 0.1853
pull
Entries 87
Mean −408.5
Std Dev 0

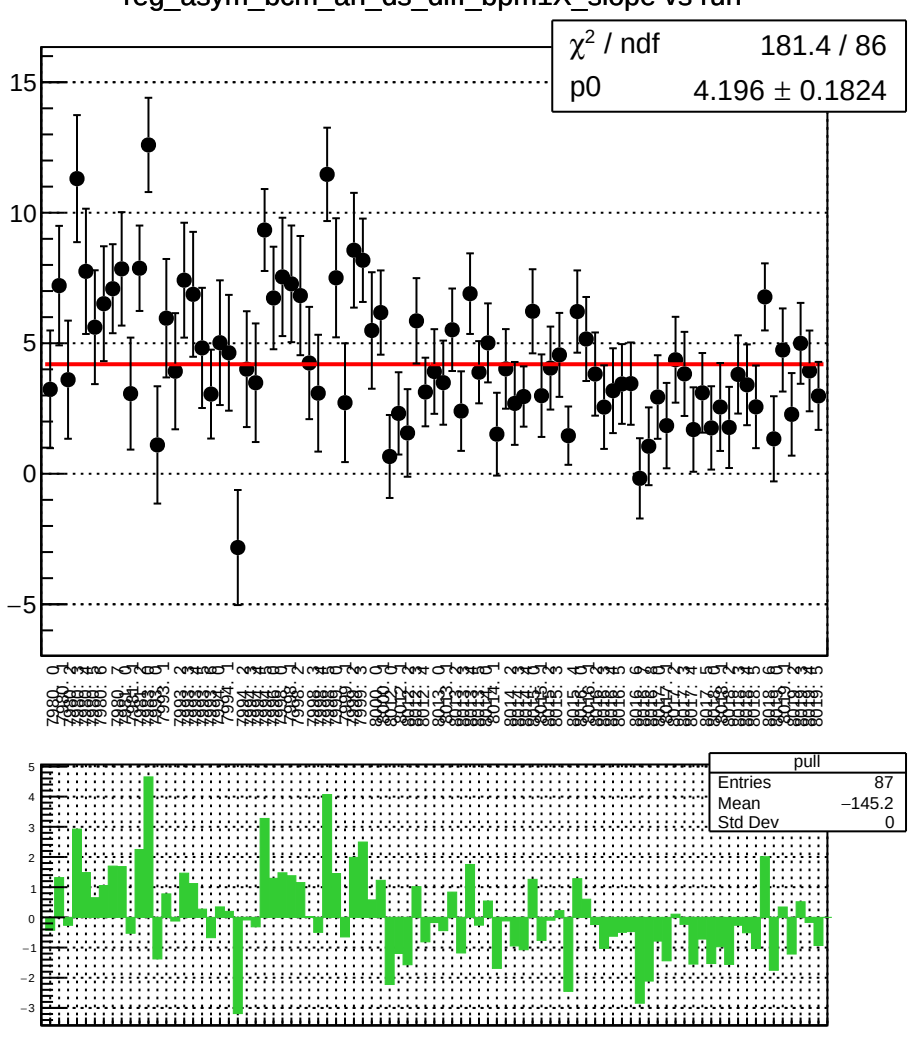

pull1D
Entries 87
Mean −0.03426
Std Dev 1.426

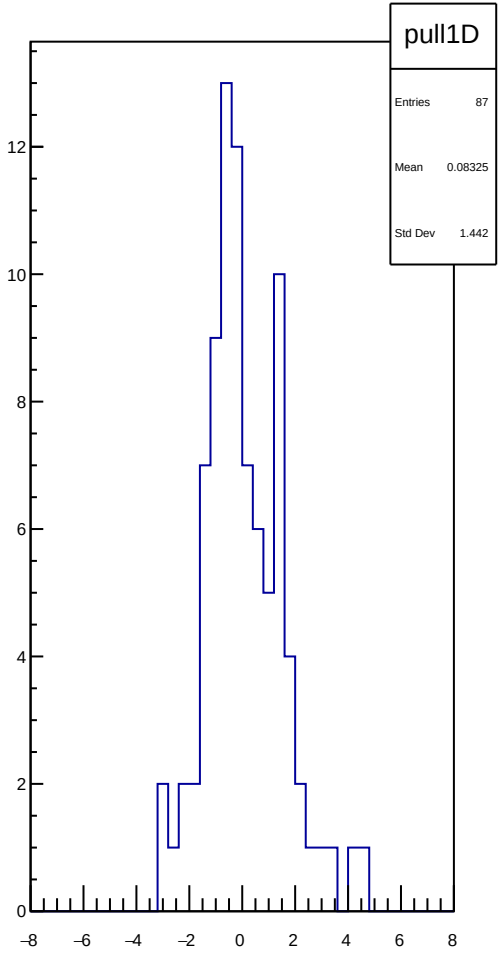

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 88.32 / 86
p0 −0.1306 ± 0.2791
pull
Entries 87
Mean 161
Std Dev 0

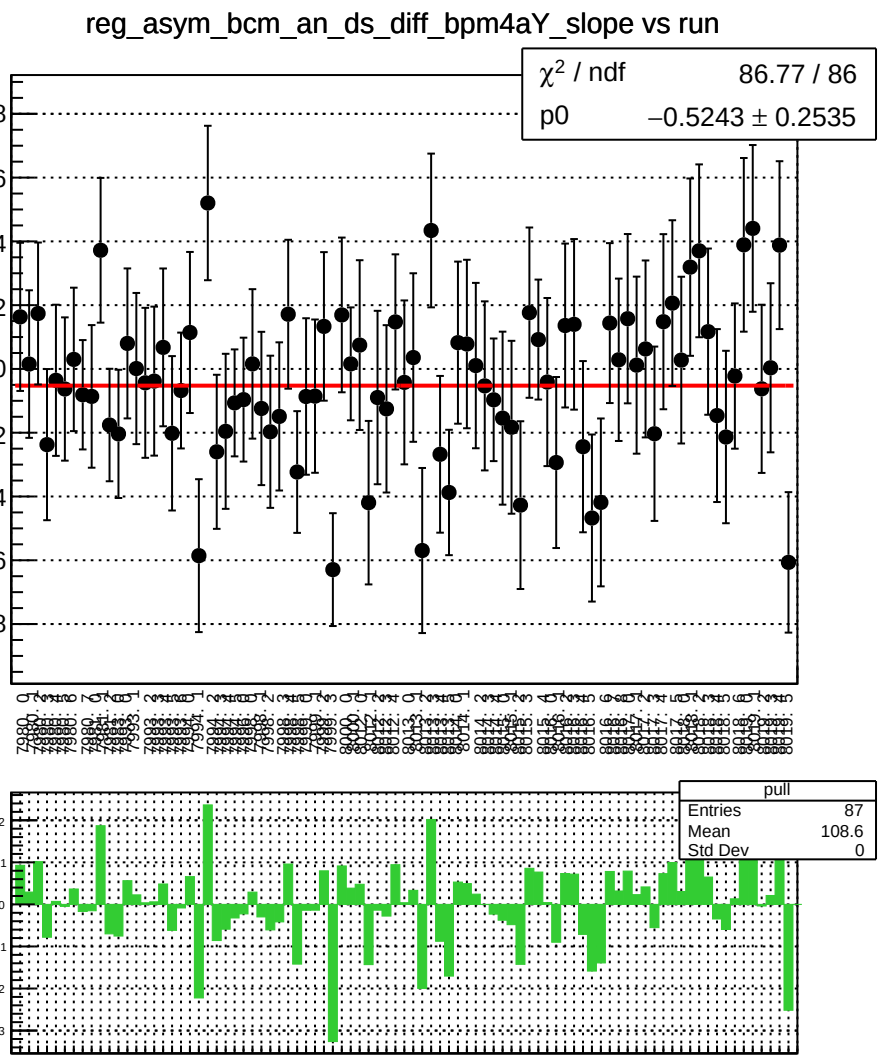

pull1D
Entries 87
Mean −0.03079
Std Dev 1.007

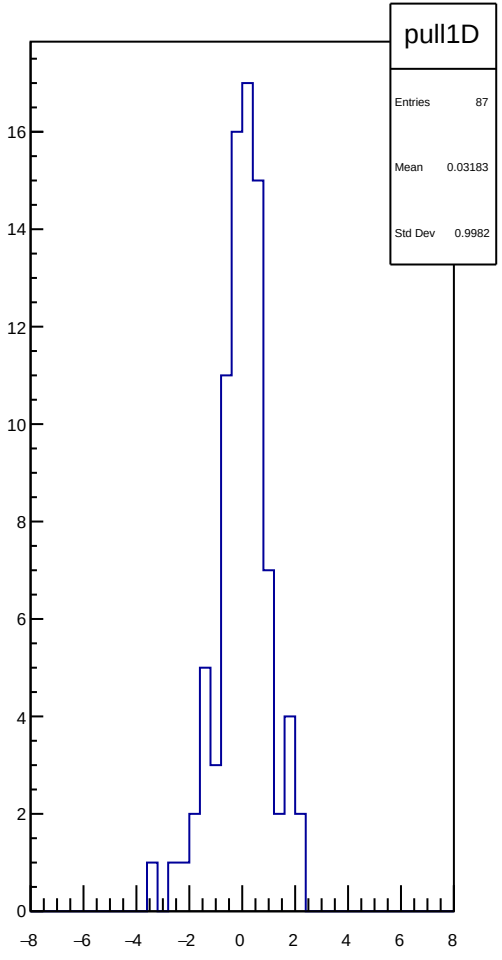

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 124.2 / 86
p0 0.2473 ± 0.01006
pull
Entries 87
Mean 81.97
Std Dev 0

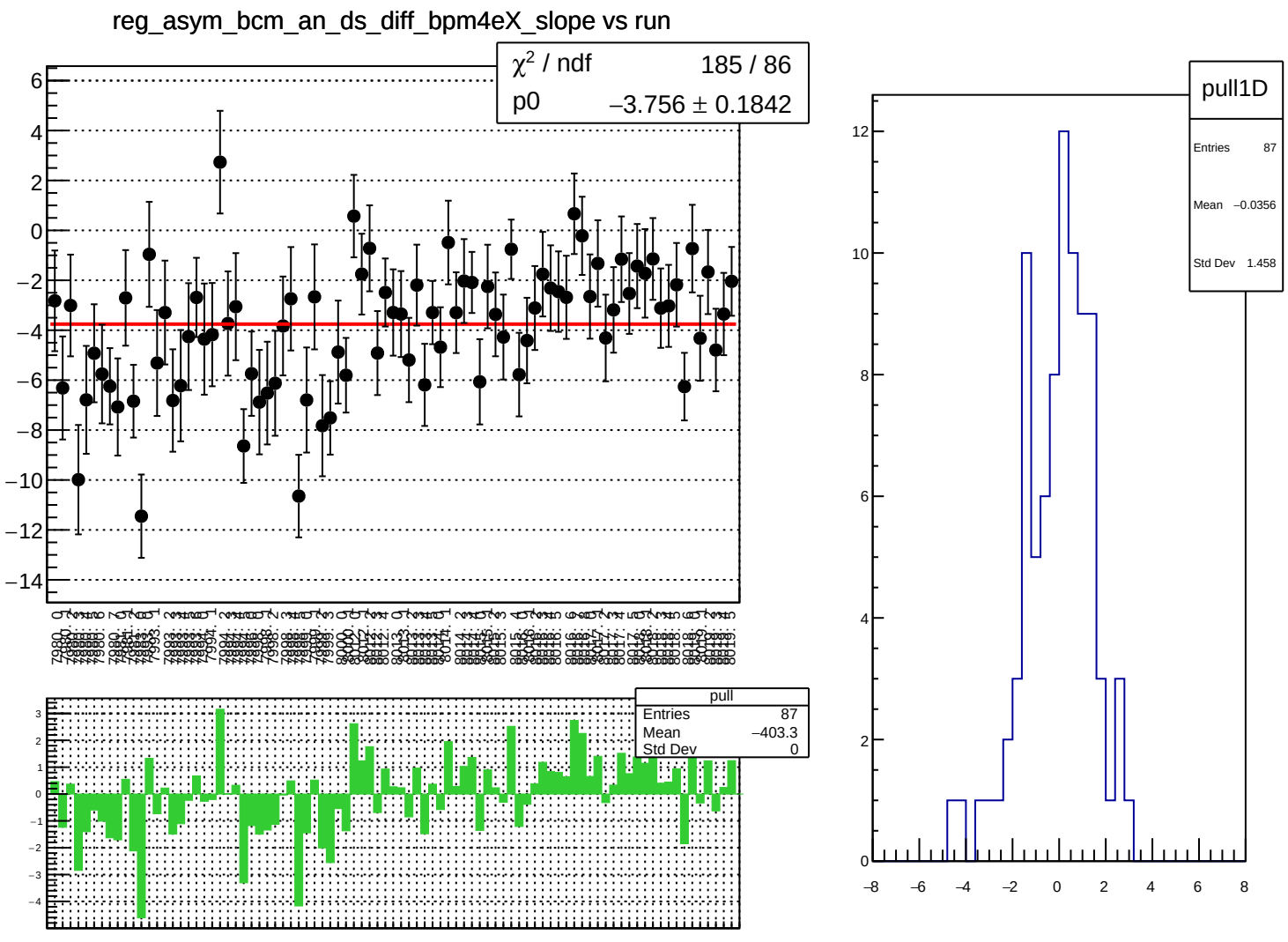

pull1D
Entries 87
Mean −0.1075
Std Dev 1.19

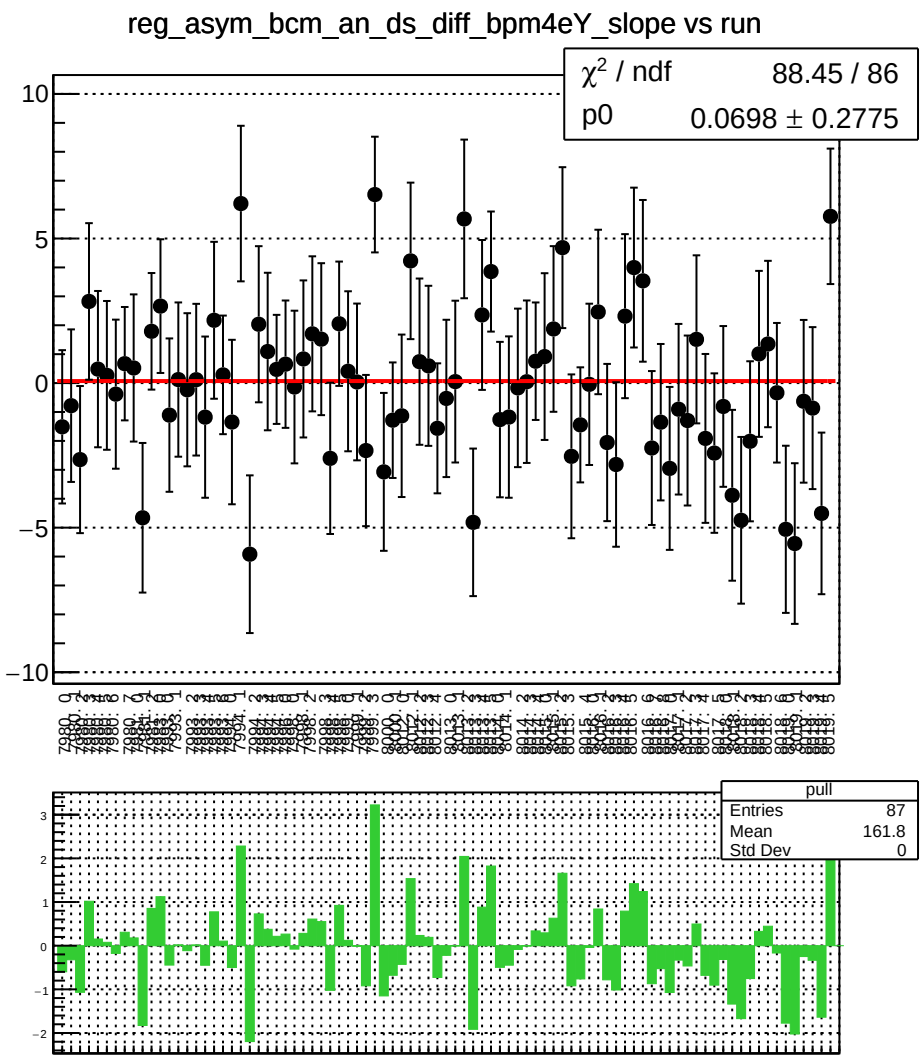

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 181.4 / 86
p0 4.196 ± 0.1824
pull
Entries 87
Mean −145.2
Std Dev 0

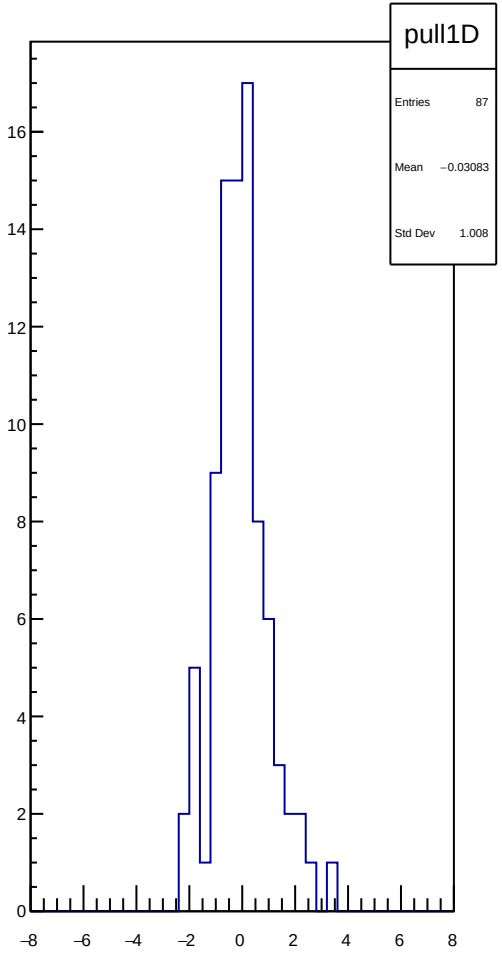

pull1D
Entries 87
Mean 0.08325
Std Dev 1.442

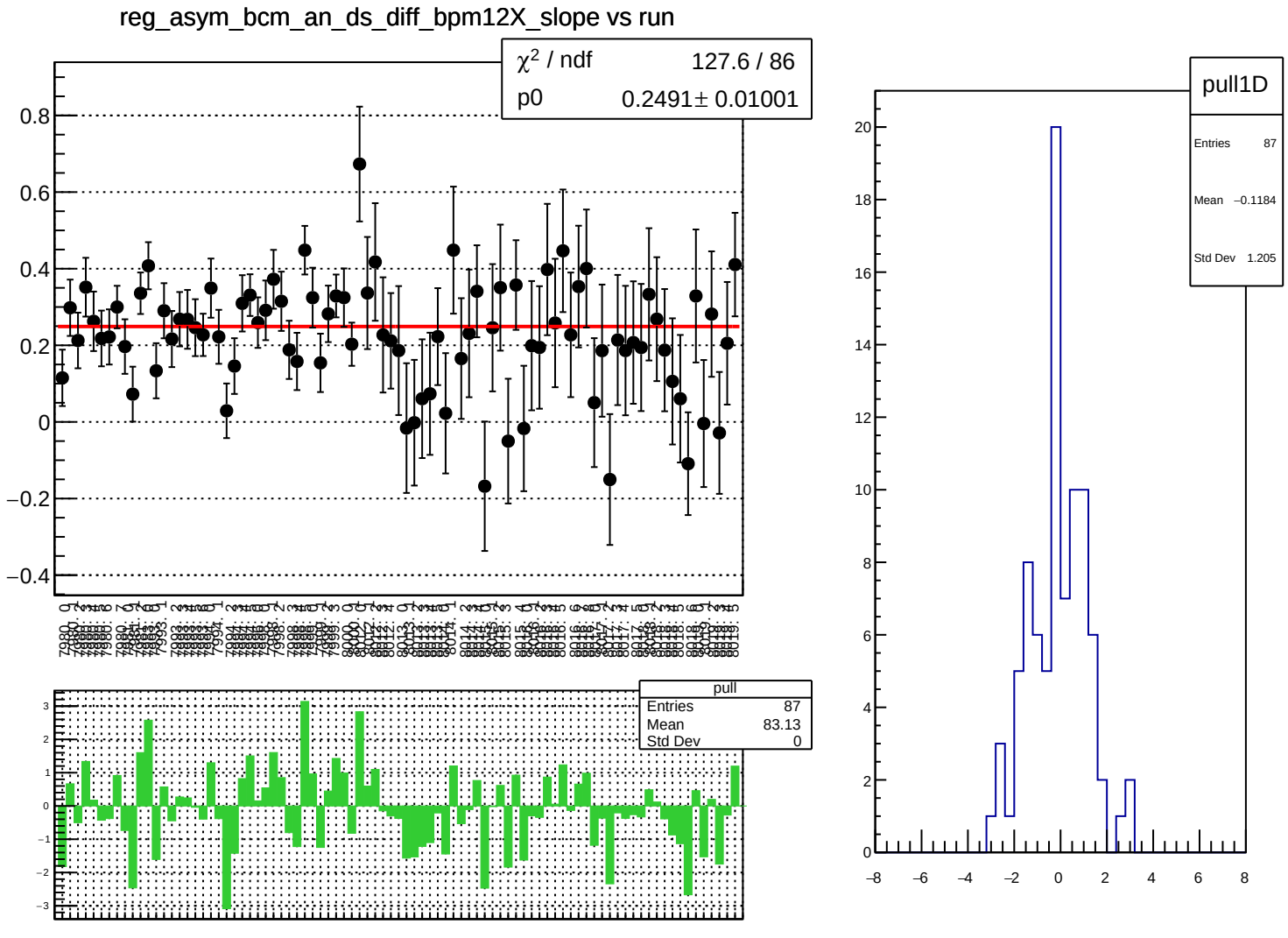

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 86.77 / 86
p0 −0.5243 ± 0.2535
pull
Entries 87
Mean 108.6
Std Dev 0

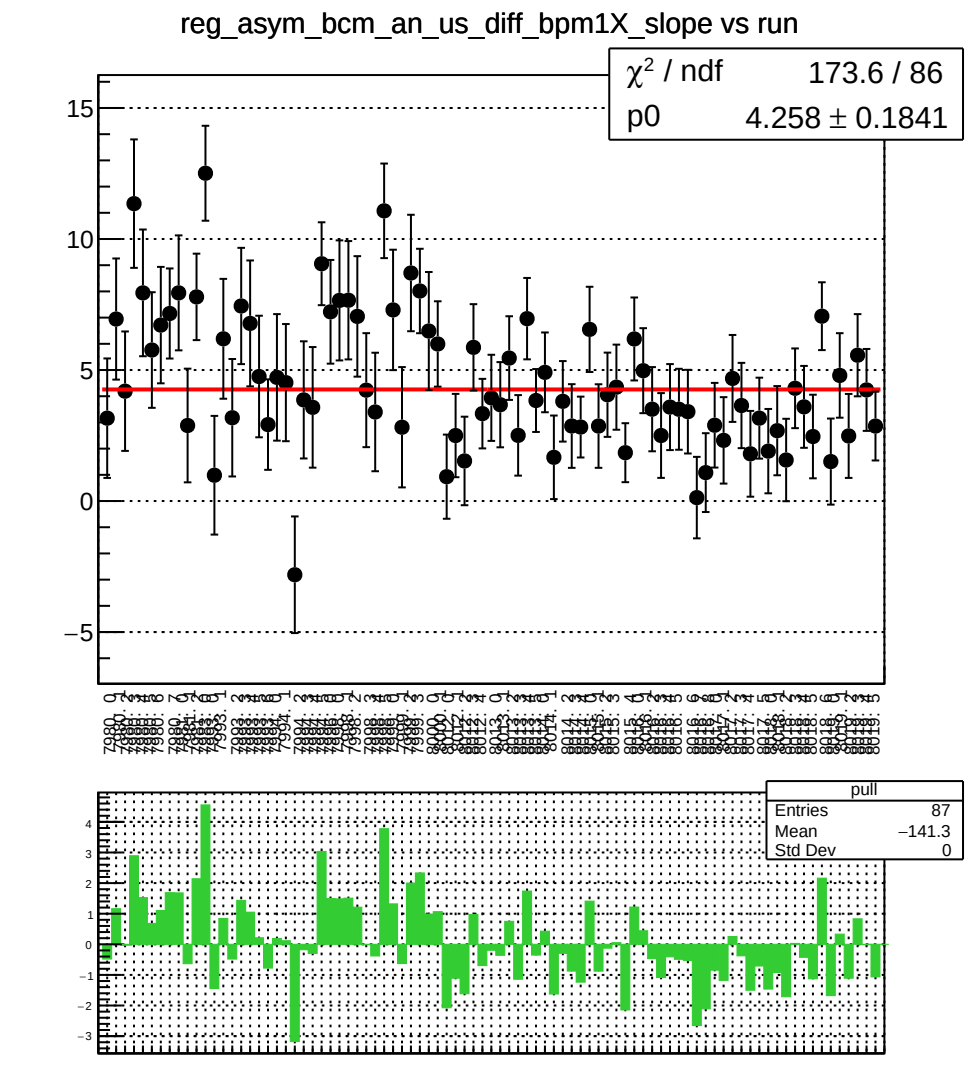

pull1D
Entries 87
Mean 0.03183
Std Dev 0.9982

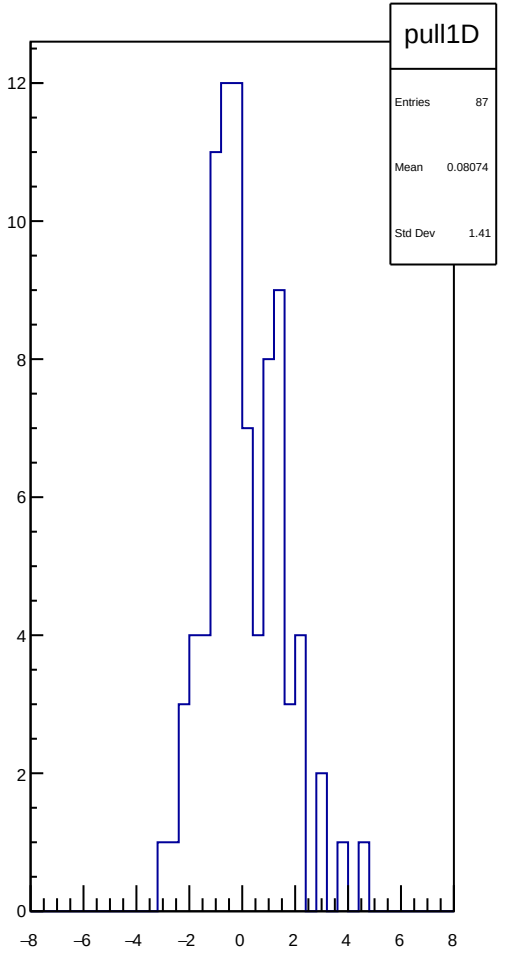

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 185 / 86
p0 −3.756 ± 0.1842
pull
Entries 87
Mean −403.3
Std Dev 0
pull1D
Entries 87
Mean −0.0356
Std Dev 1.458

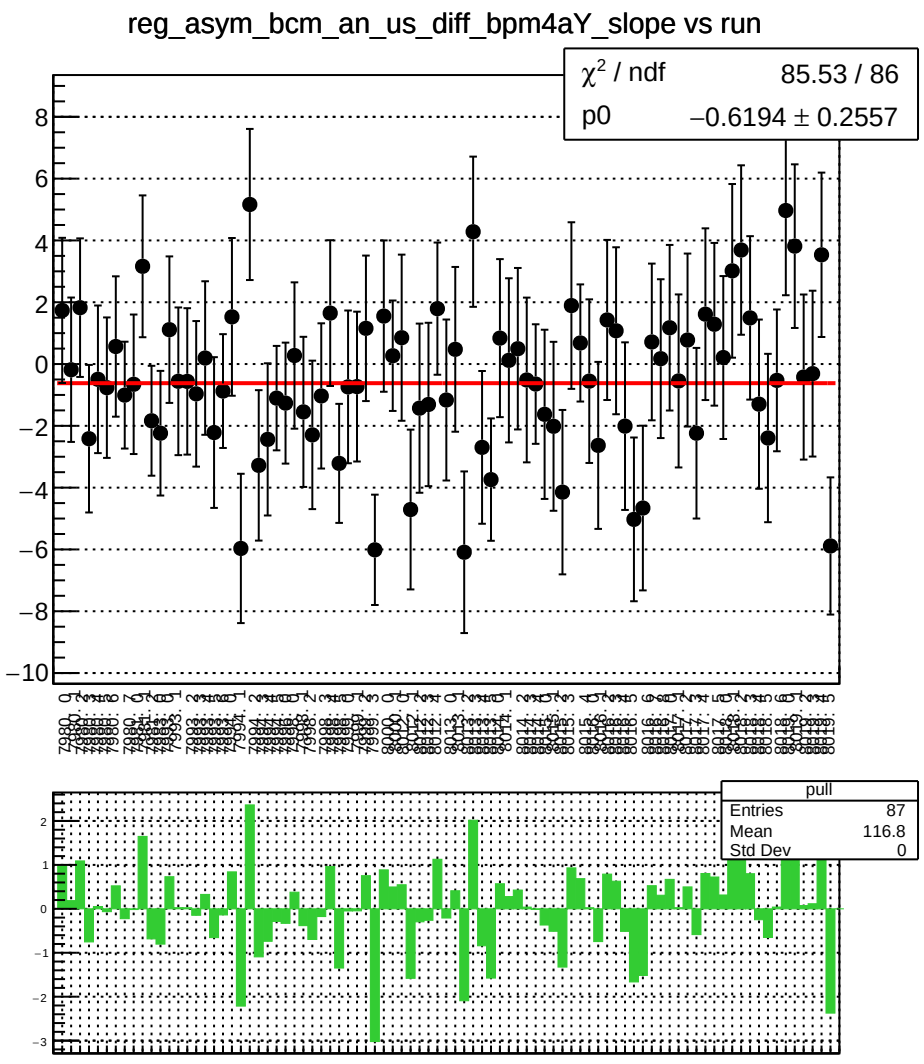

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 88.45 / 86
p0 0.0698 ± 0.2775
pull
Entries 87
Mean 161.8
Std Dev 0

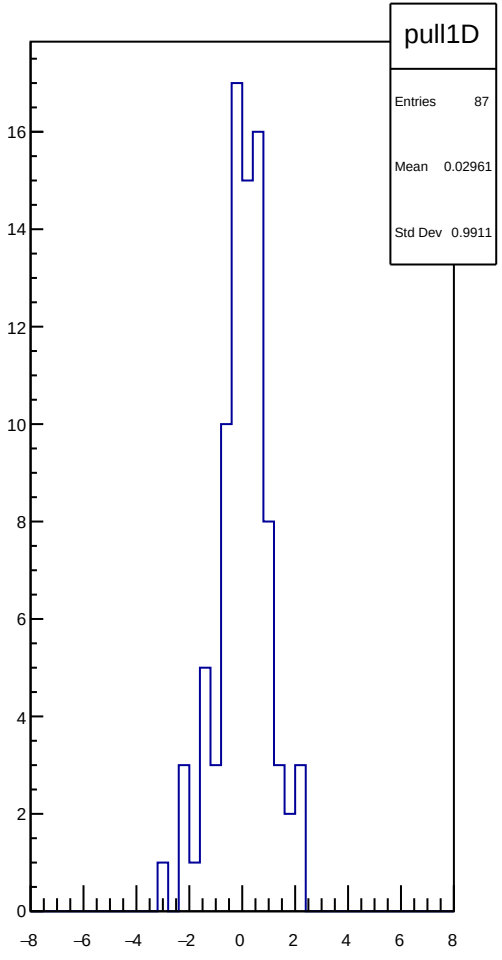

pull1D
Entries 87
Mean −0.03083
Std Dev 1.008

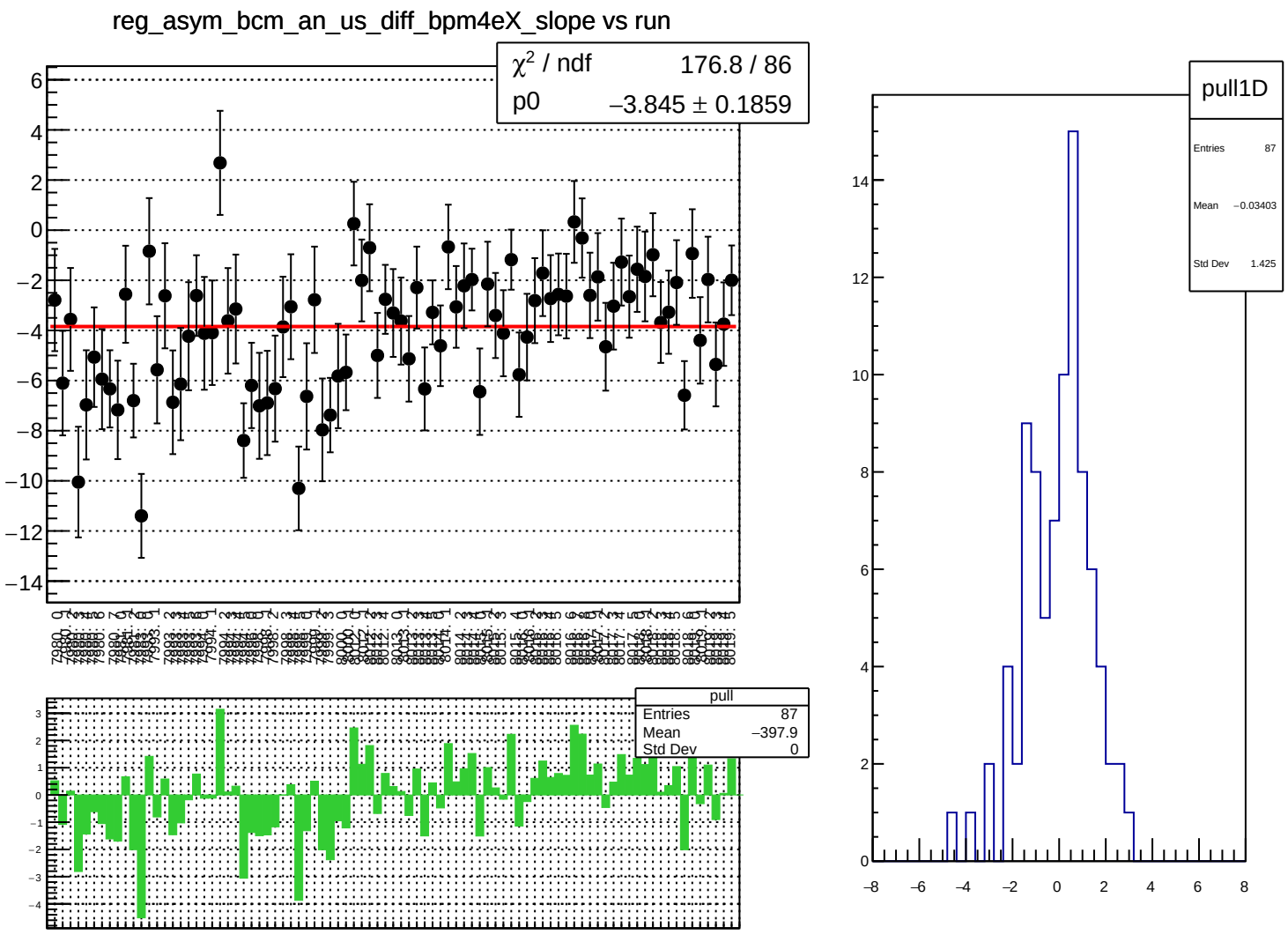

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 127.6 / 86
p0 0.2491± 0.01001
pull
Entries 87
Mean 83.13
Std Dev 0
pull1D
Entries 87
Mean −0.1184
Std Dev 1.205

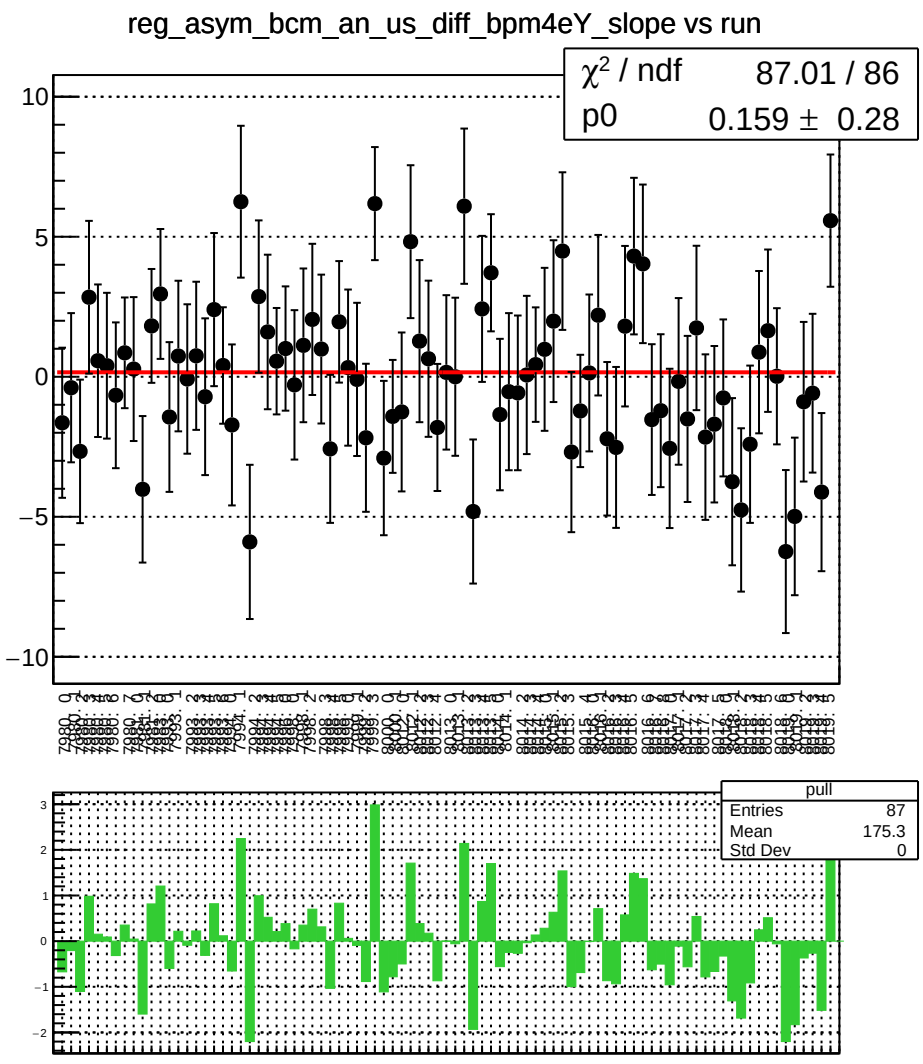

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 173.6 / 86
p0 4.258 ± 0.1841
15
10
5
0
−5
pull
Entries 87
Mean −141.3
Std Dev 0
4
3
2
1
0
−1
−2
−3

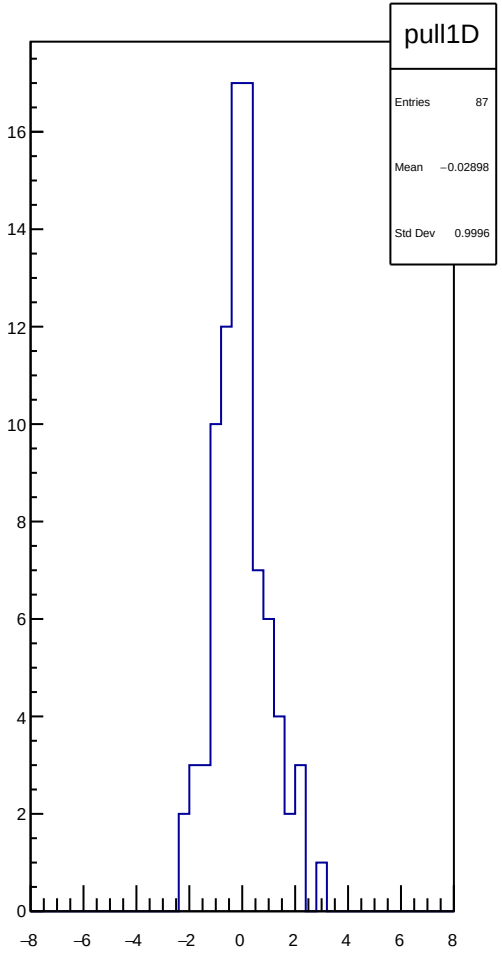

pull1D
Entries 87
Mean 0.08074
Std Dev 1.41
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

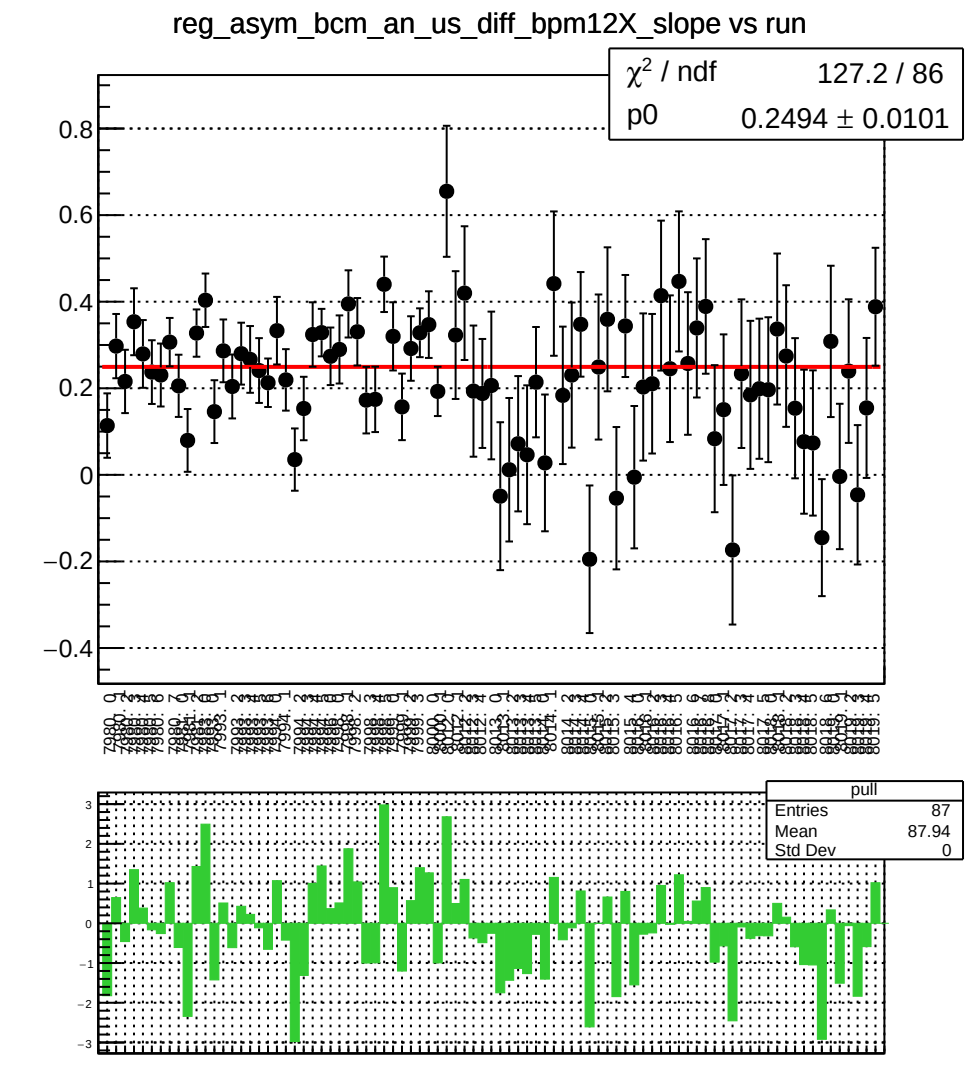

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 85.53 / 86
p0 −0.6194 ± 0.2557
pull
Entries 87
Mean 116.8
Std Dev 0

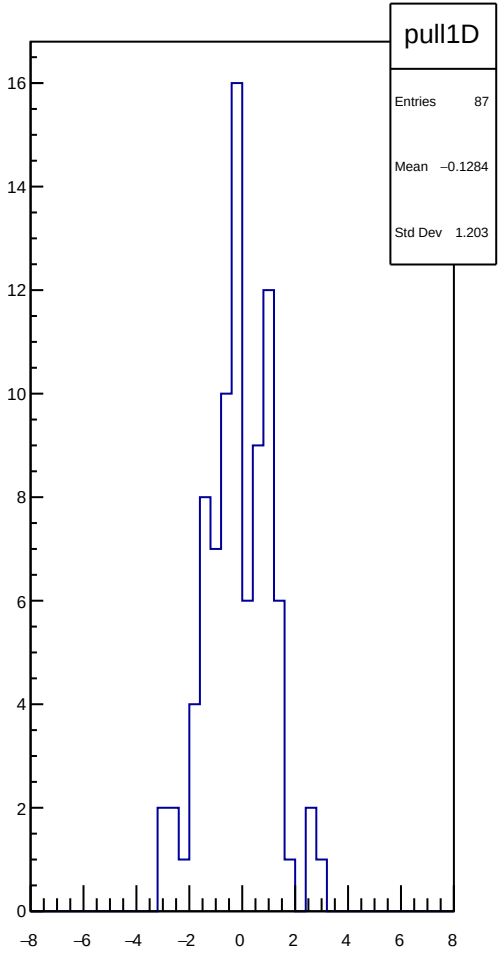

pull1D
Entries 87
Mean 0.02961
Std Dev 0.9911

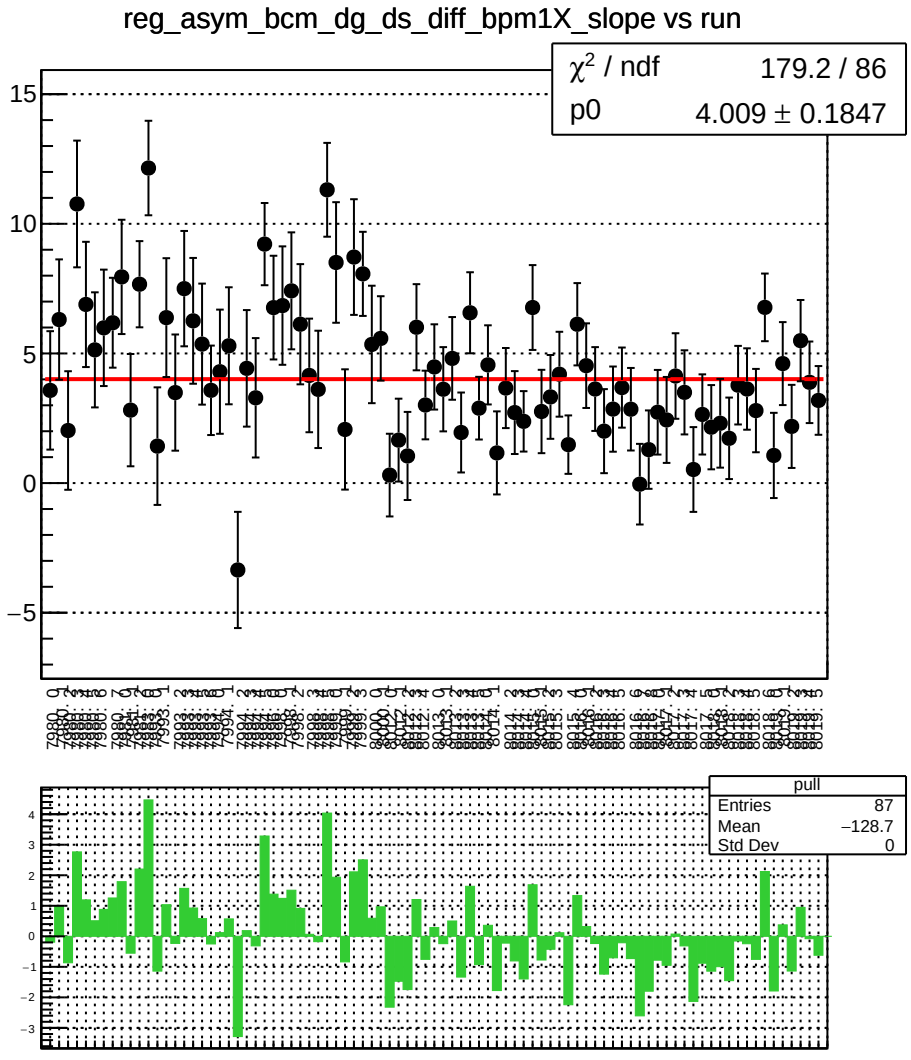

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 176.8 / 86
p0 −3.845 ± 0.1859
pull
Entries 87
Mean −397.9
Std Dev 0
pull1D
Entries 87
Mean −0.03403
Std Dev 1.425

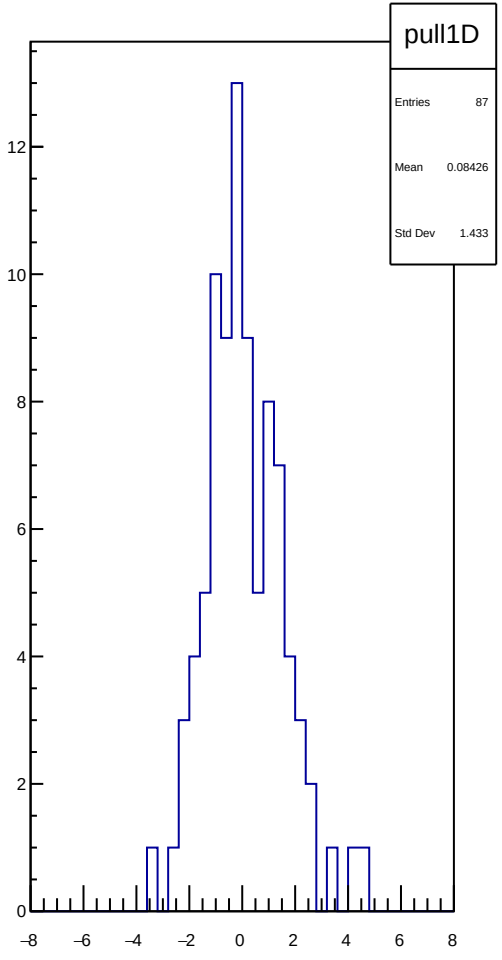

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 87.01 / 86
p0 0.159 ± 0.28
pull
Entries 87
Mean 175.3
Std Dev 0

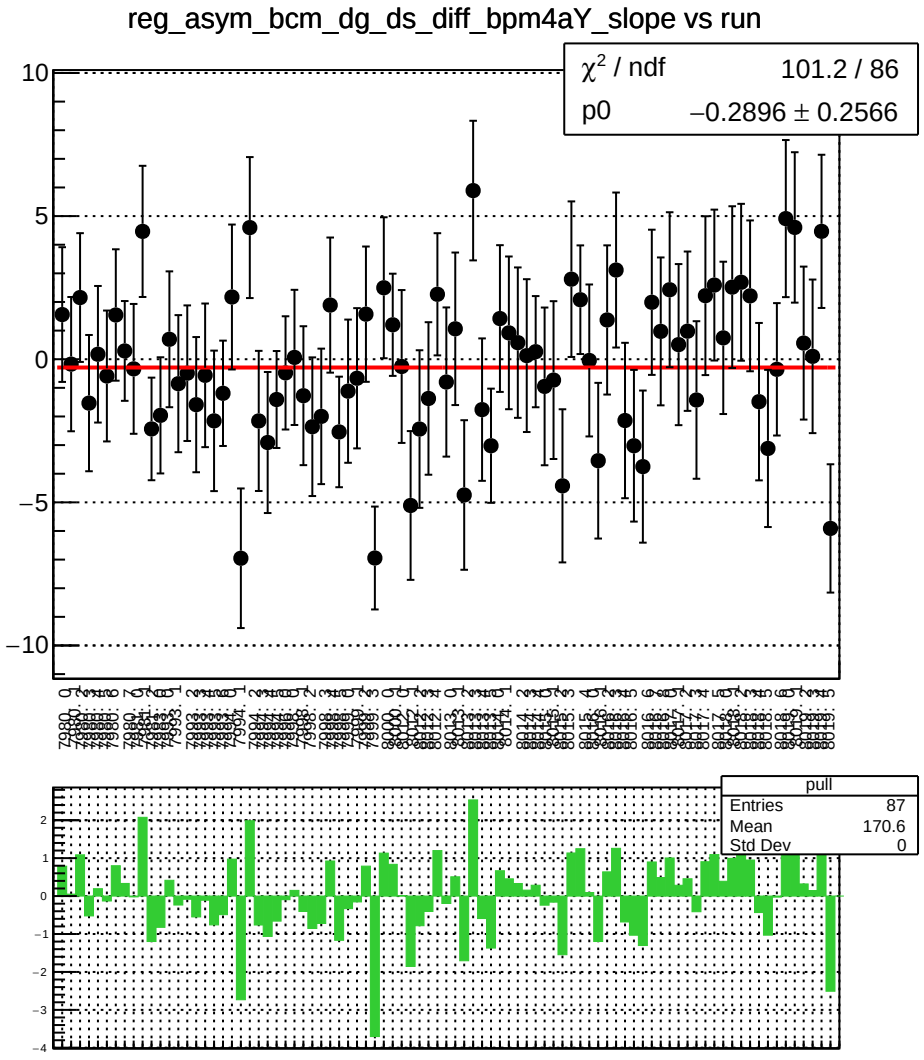

pull1D
Entries 87
Mean −0.02898
Std Dev 0.9996

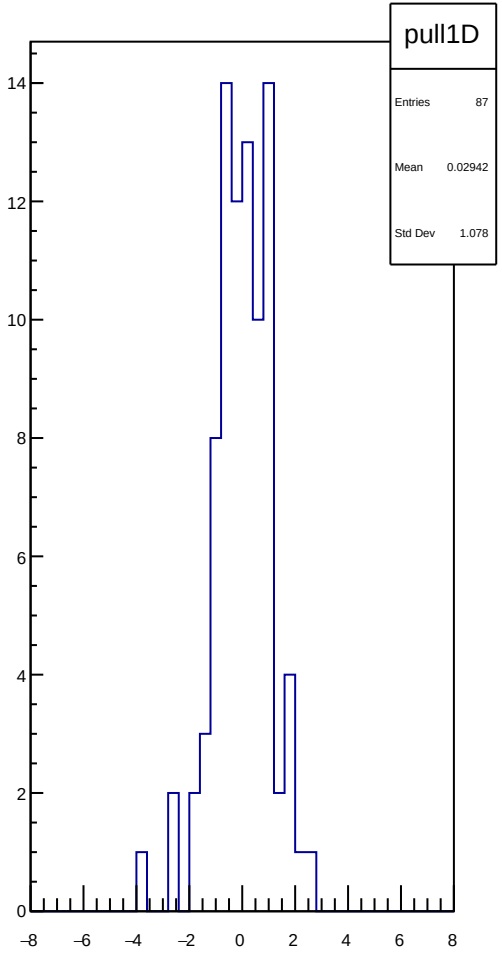

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 127.2 / 86
p0 0.2494 ± 0.0101
pull
Entries 87
Mean 87.94
Std Dev 0

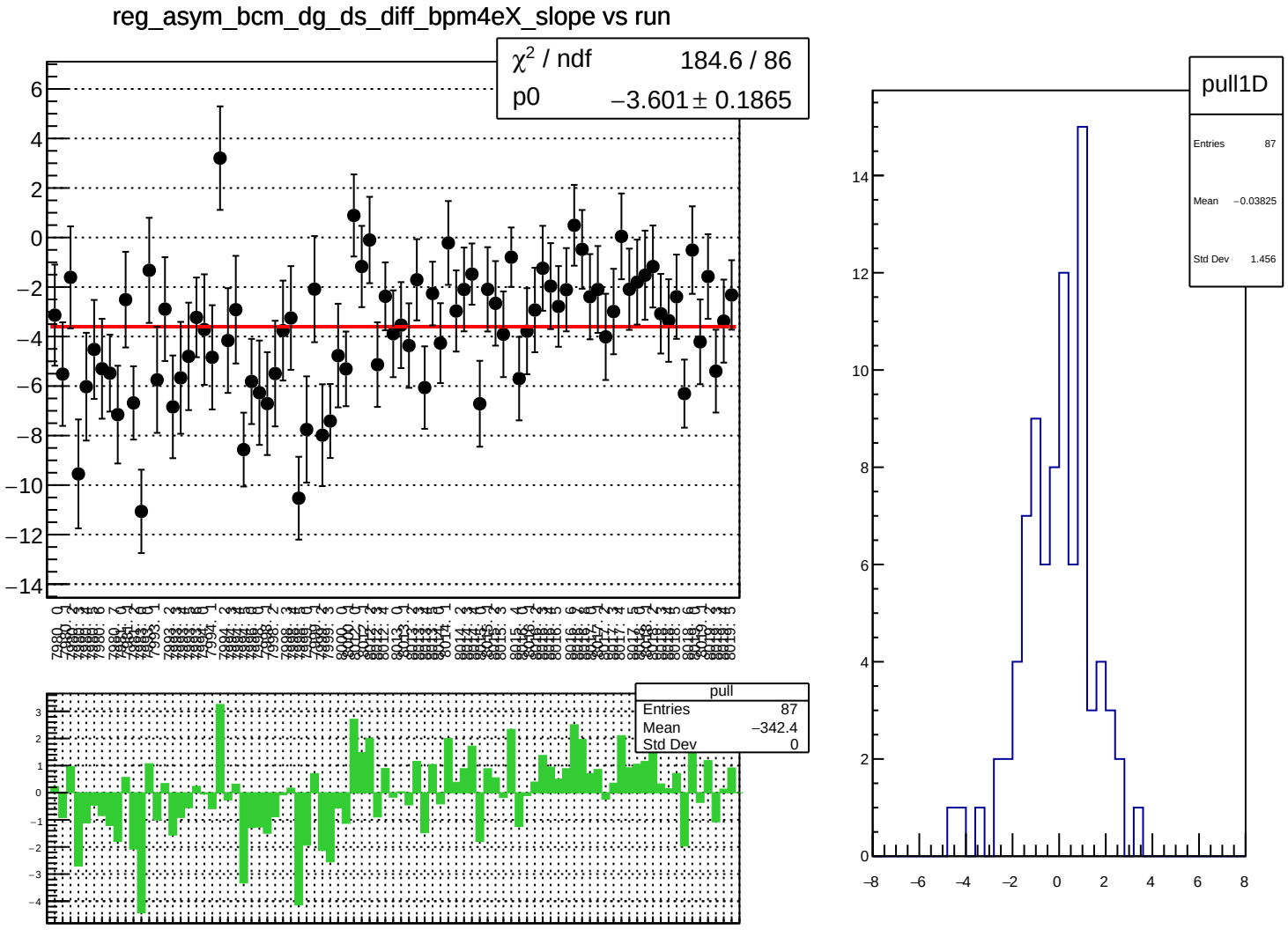

pull1D
Entries 87
Mean −0.1284
Std Dev 1.203

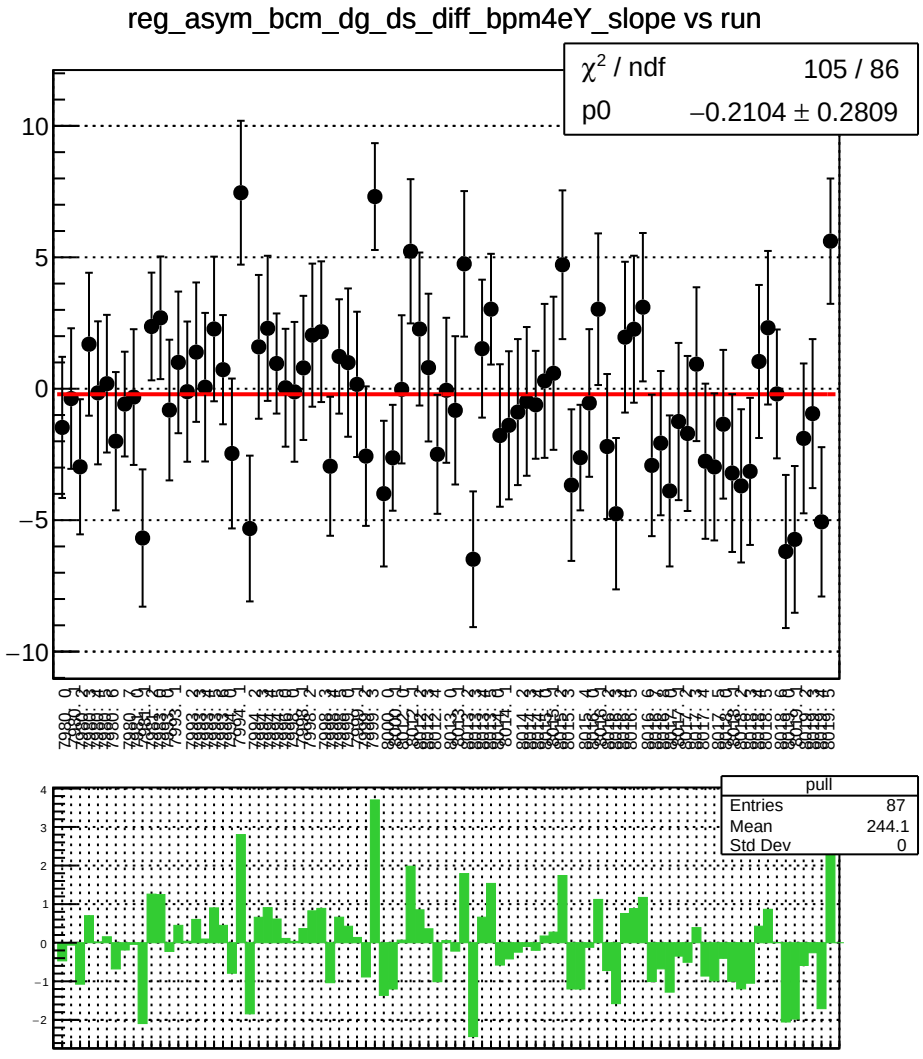

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 179.2 / 86
p0 4.009 ± 0.1847
pull
Entries 87
Mean −128.7
Std Dev 0

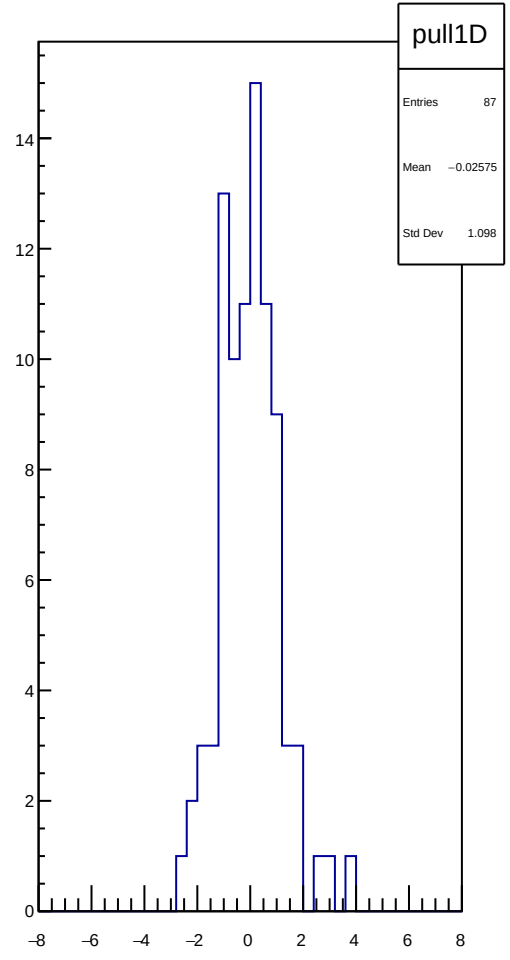

pull1D
Entries 87
Mean 0.08426
Std Dev 1.433

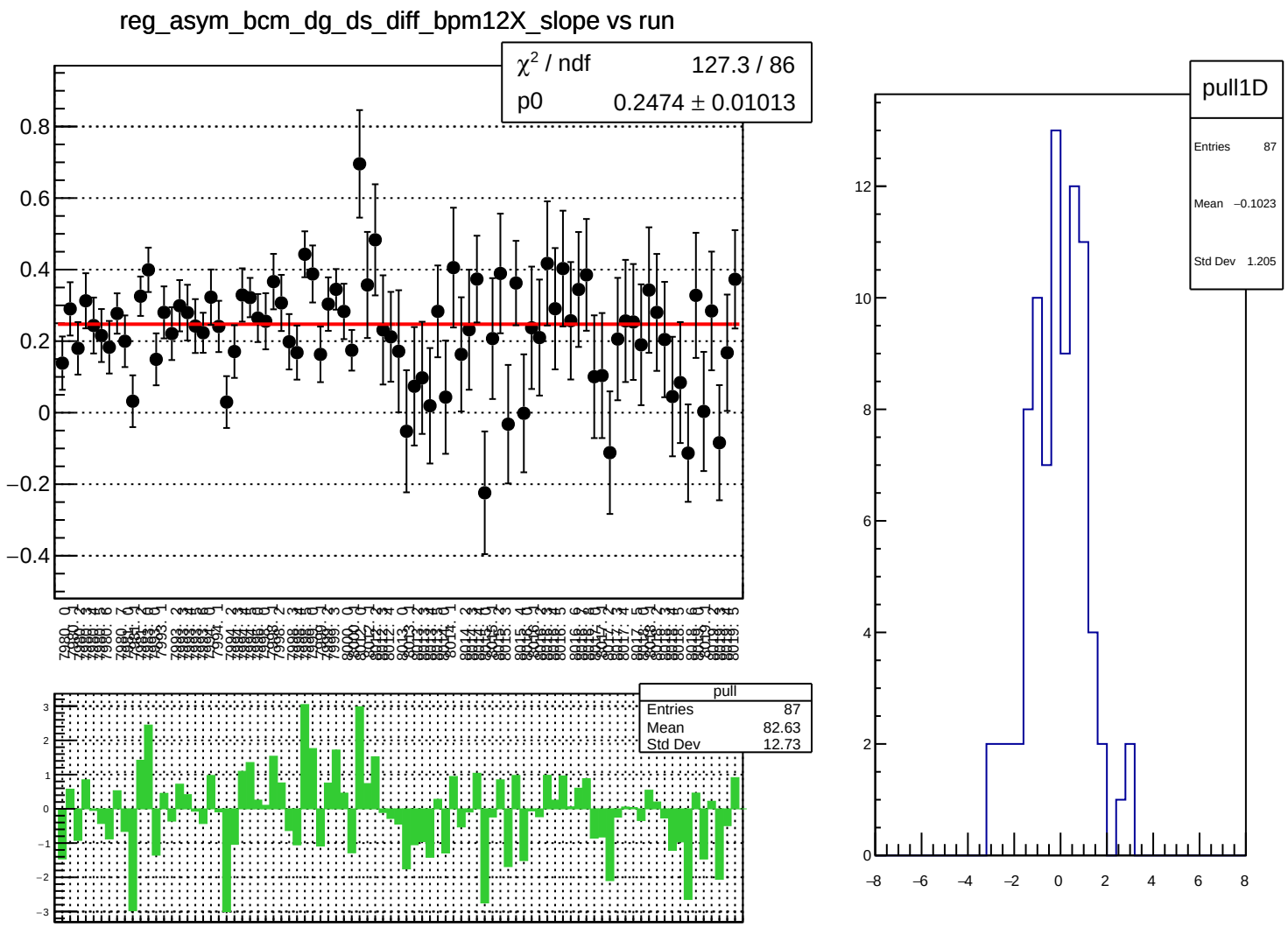

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 101.2 / 86
p0 −0.2896 ± 0.2566
pull
Entries 87
Mean 170.6
Std Dev 0

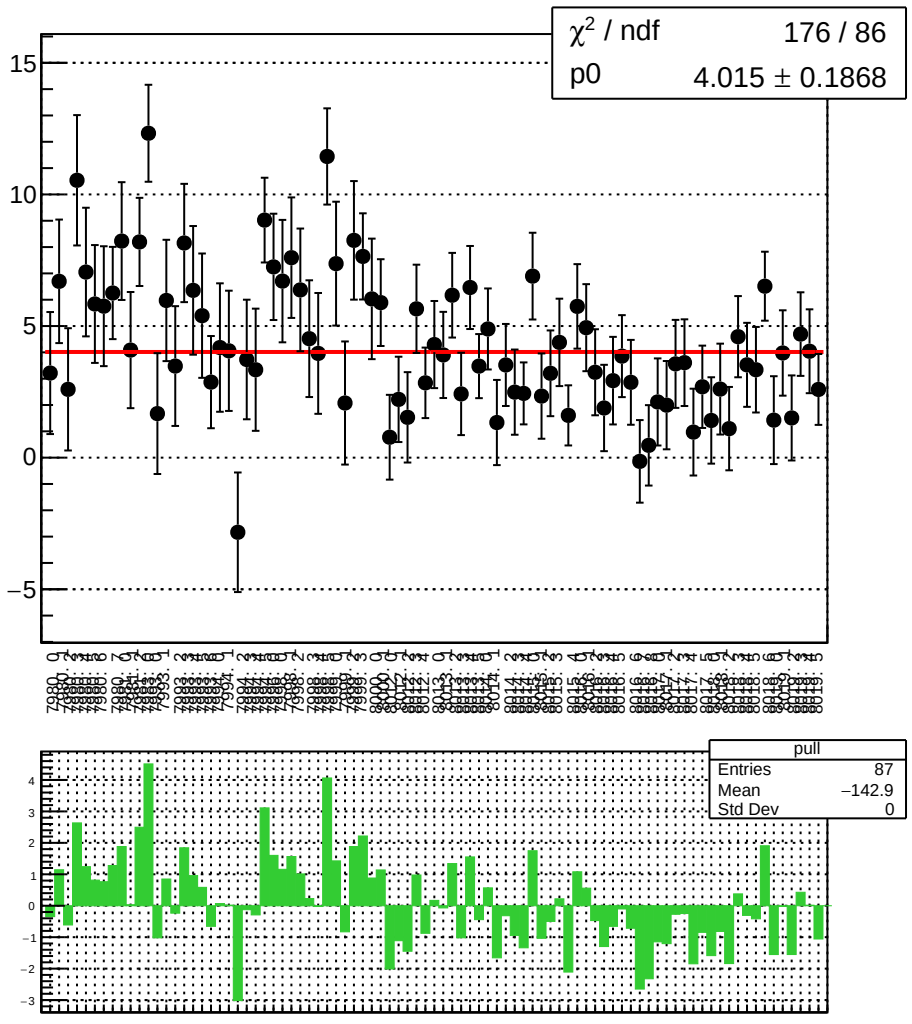

pull1D
Entries 87
Mean 0.02942
Std Dev 1.078

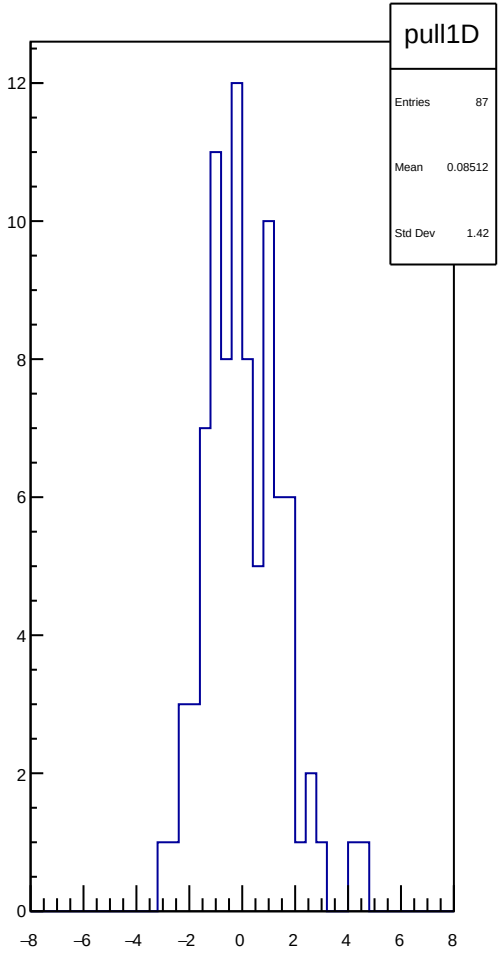

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 184.6 / 86
p0 −3.601 ± 0.1865
pull
Entries 87
Mean −342.4
Std Dev 0
pull1D
Entries 87
Mean −0.03825
Std Dev 1.456

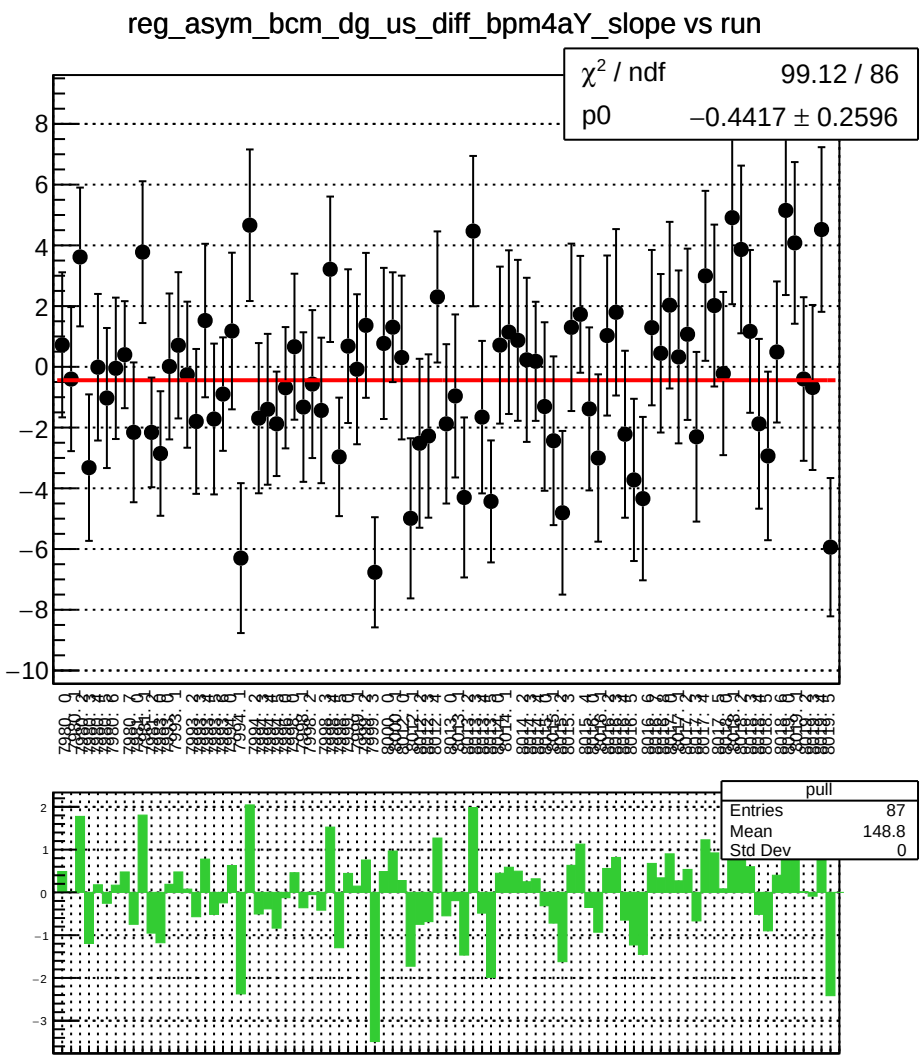

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 105 / 86
p0 −0.2104 ± 0.2809
pull
Entries 87
Mean 244.1
Std Dev 0

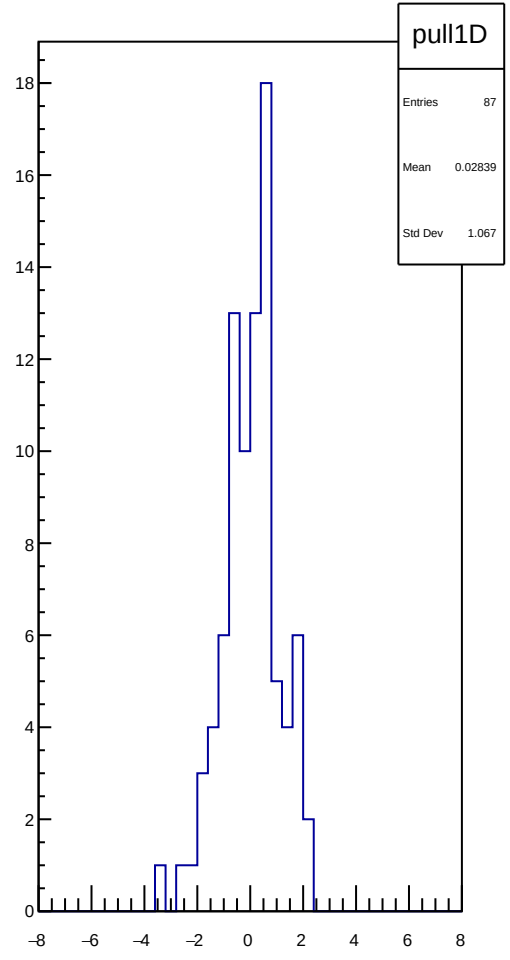

pull1D
Entries 87
Mean −0.02575
Std Dev 1.098

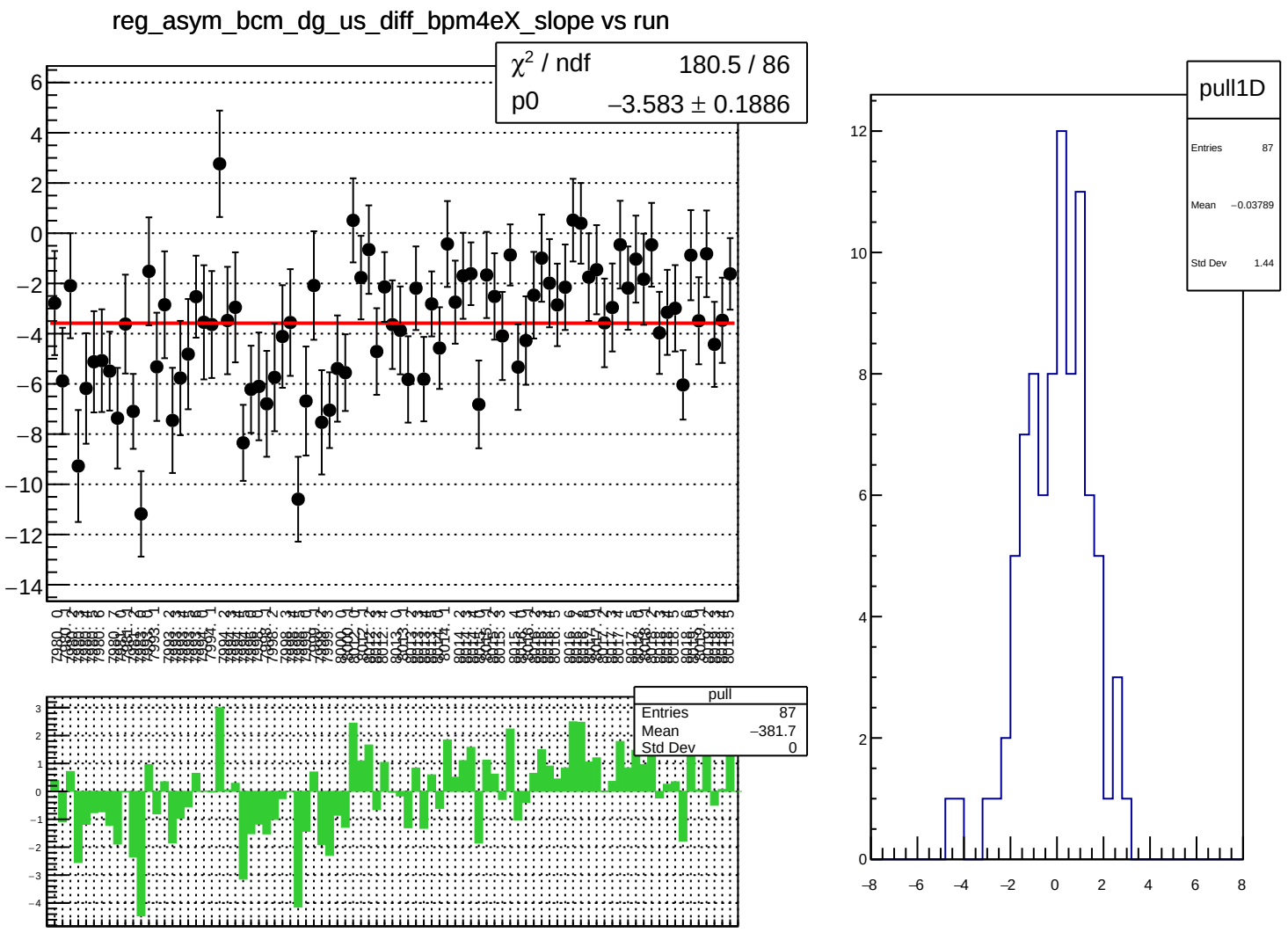

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 127.3 / 86
p0 0.2474 ± 0.01013
pull
Entries 87
Mean 82.63
Std Dev 12.73
pull1D
Entries 87
Mean −0.1023
Std Dev 1.205

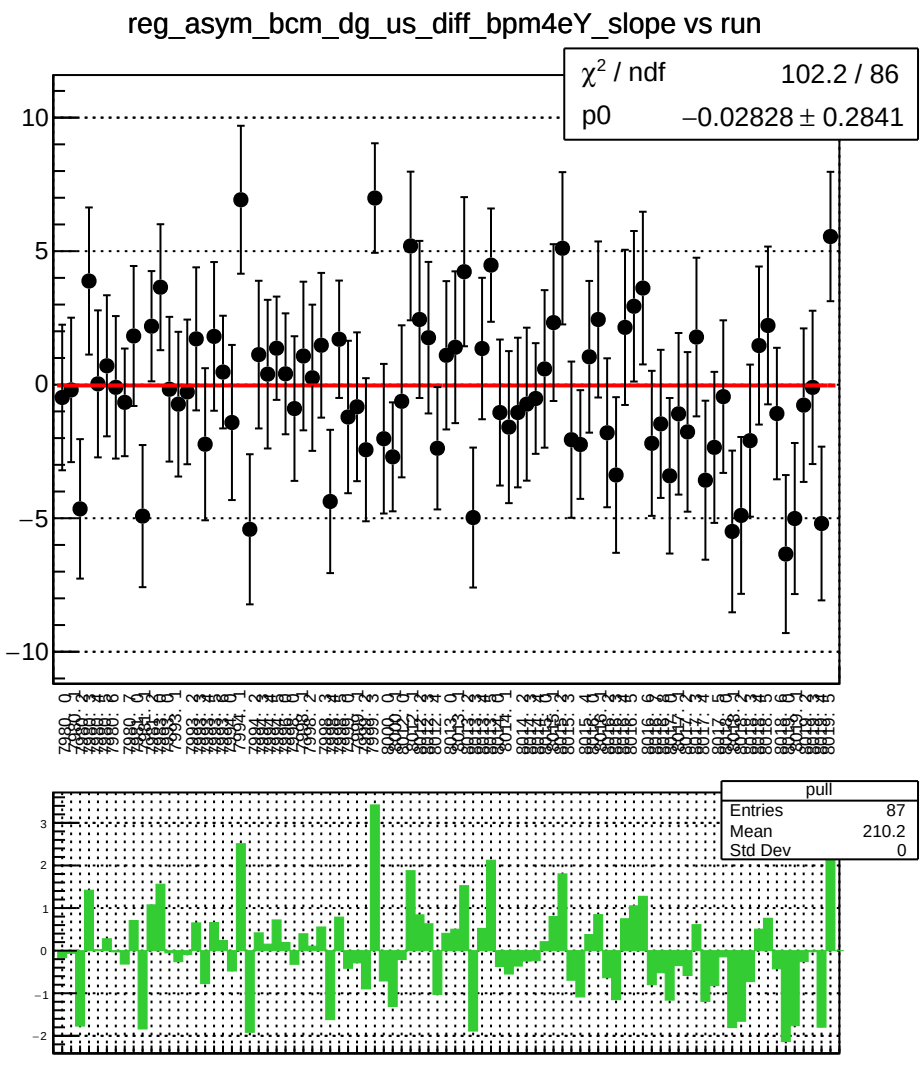

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 176 / 86
p0 4.015 ± 0.1868
pull
Entries 87
Mean −142.9
Std Dev 0

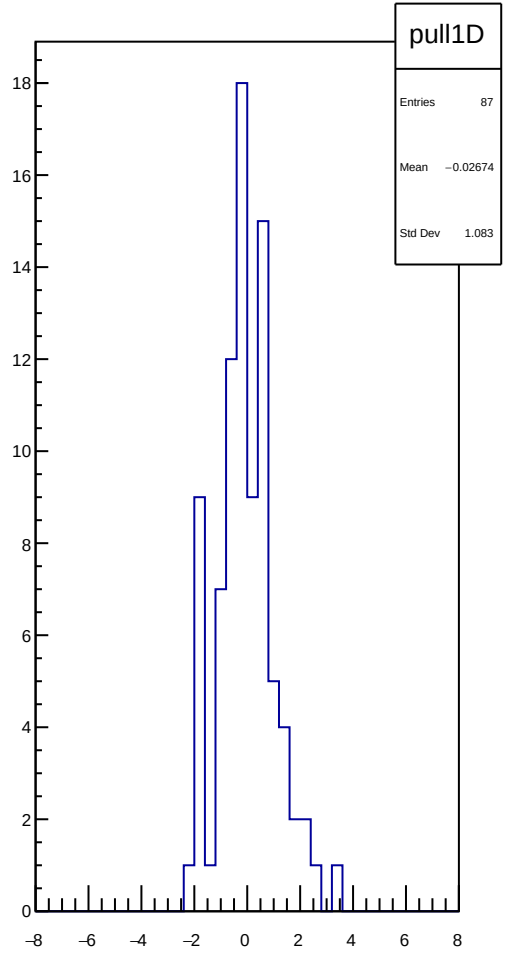

pull1D
Entries 87
Mean 0.08512
Std Dev 1.42

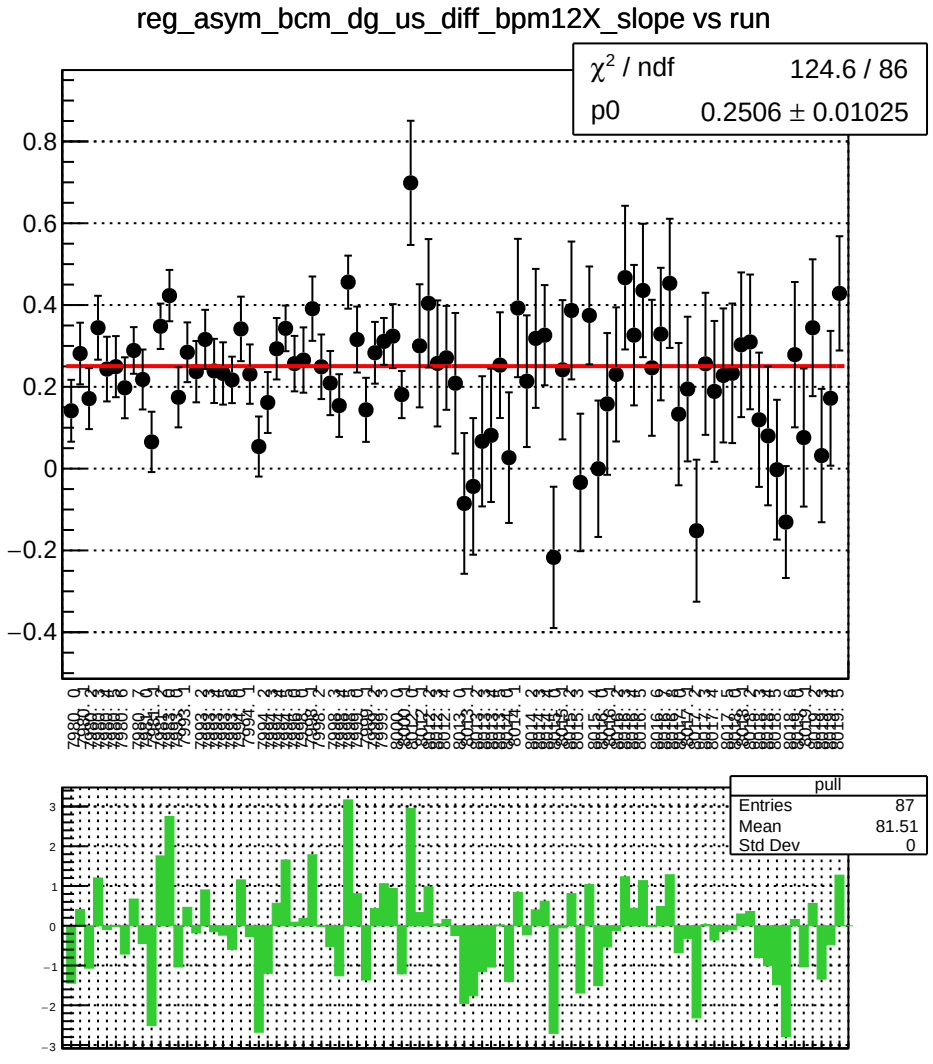

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 99.12 / 86
p0 −0.4417 ± 0.2596
pull
Entries 87
Mean 148.8
Std Dev 0

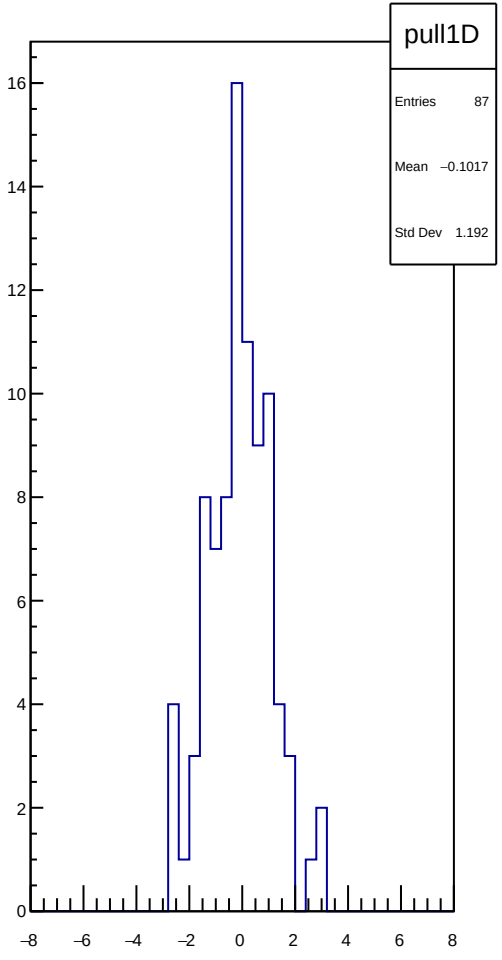

pull1D
Entries 87
Mean 0.02839
Std Dev 1.067

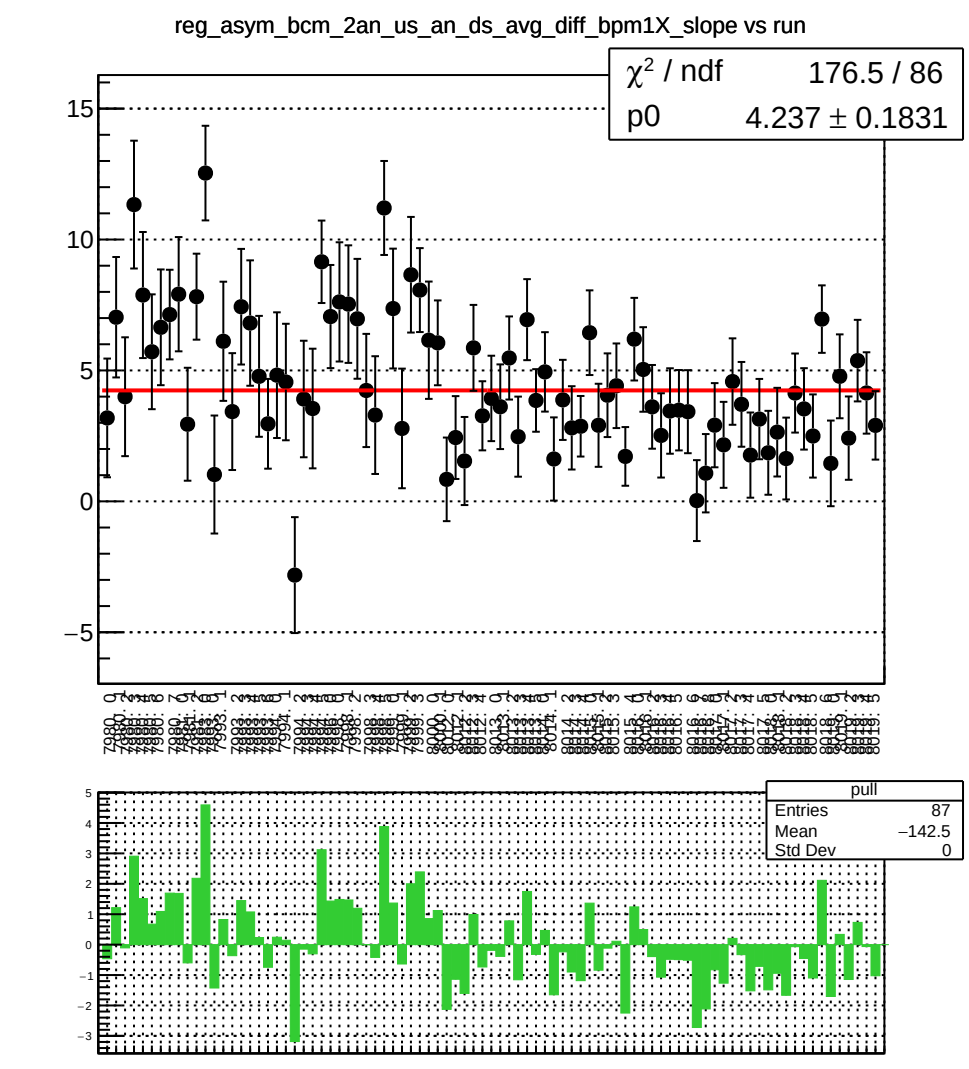

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 180.5 / 86
p0 −3.583 ± 0.1886
pull
Entries 87
Mean −381.7
Std Dev 0
pull1D
Entries 87
Mean −0.03789
Std Dev 1.44

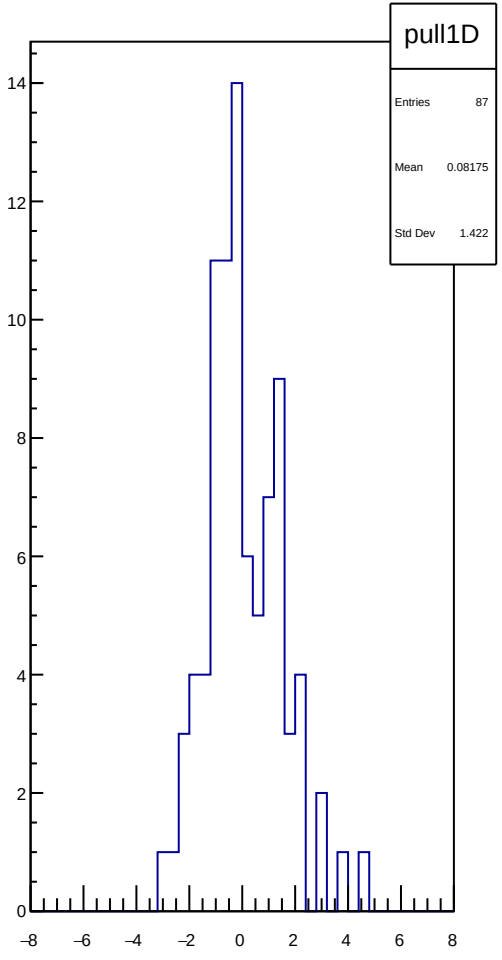

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 102.2 / 86
p0 −0.02828 ± 0.2841
pull
Entries 87
Mean 210.2
Std Dev 0

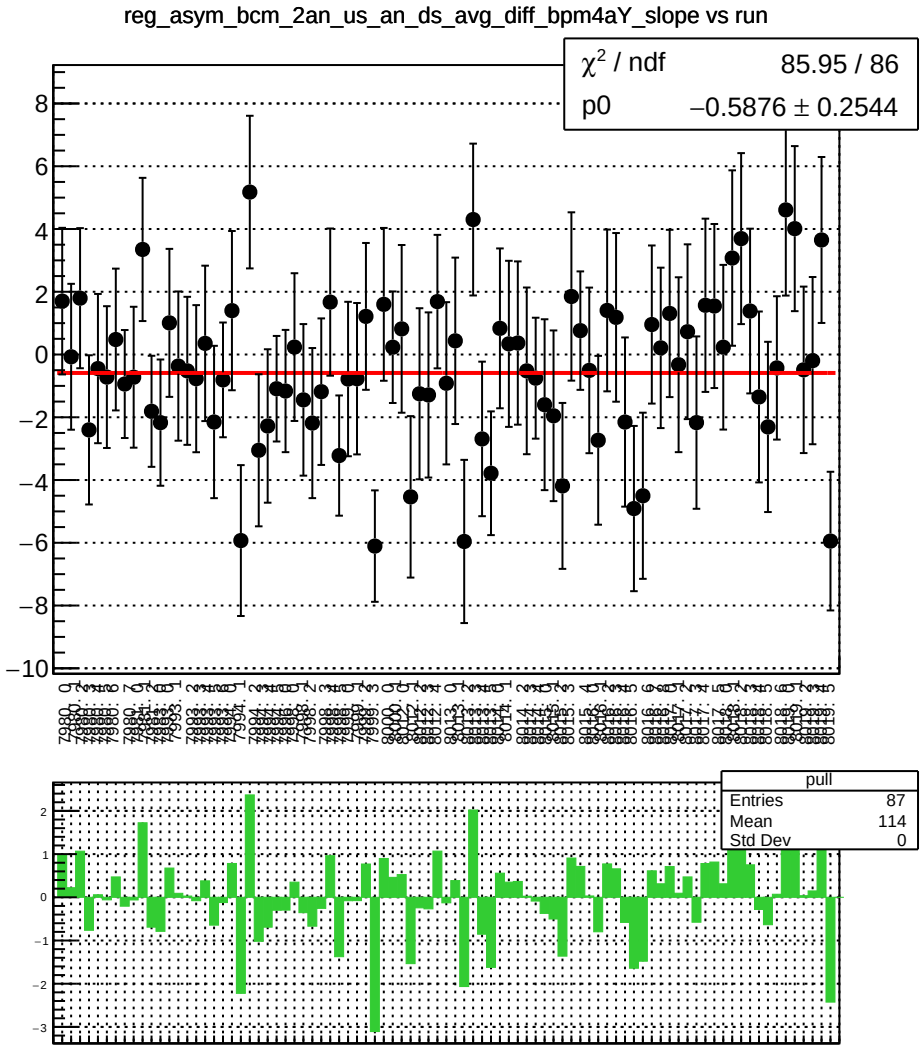

pull1D
Entries 87
Mean −0.02674
Std Dev 1.083

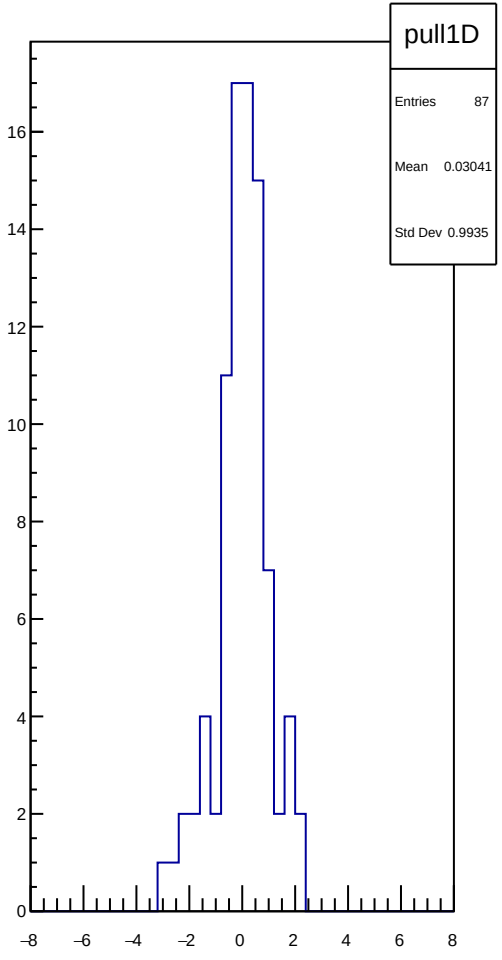

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 124.6 / 86
p0 0.2506 ± 0.01025
pull
Entries 87
Mean 81.51
Std Dev 0

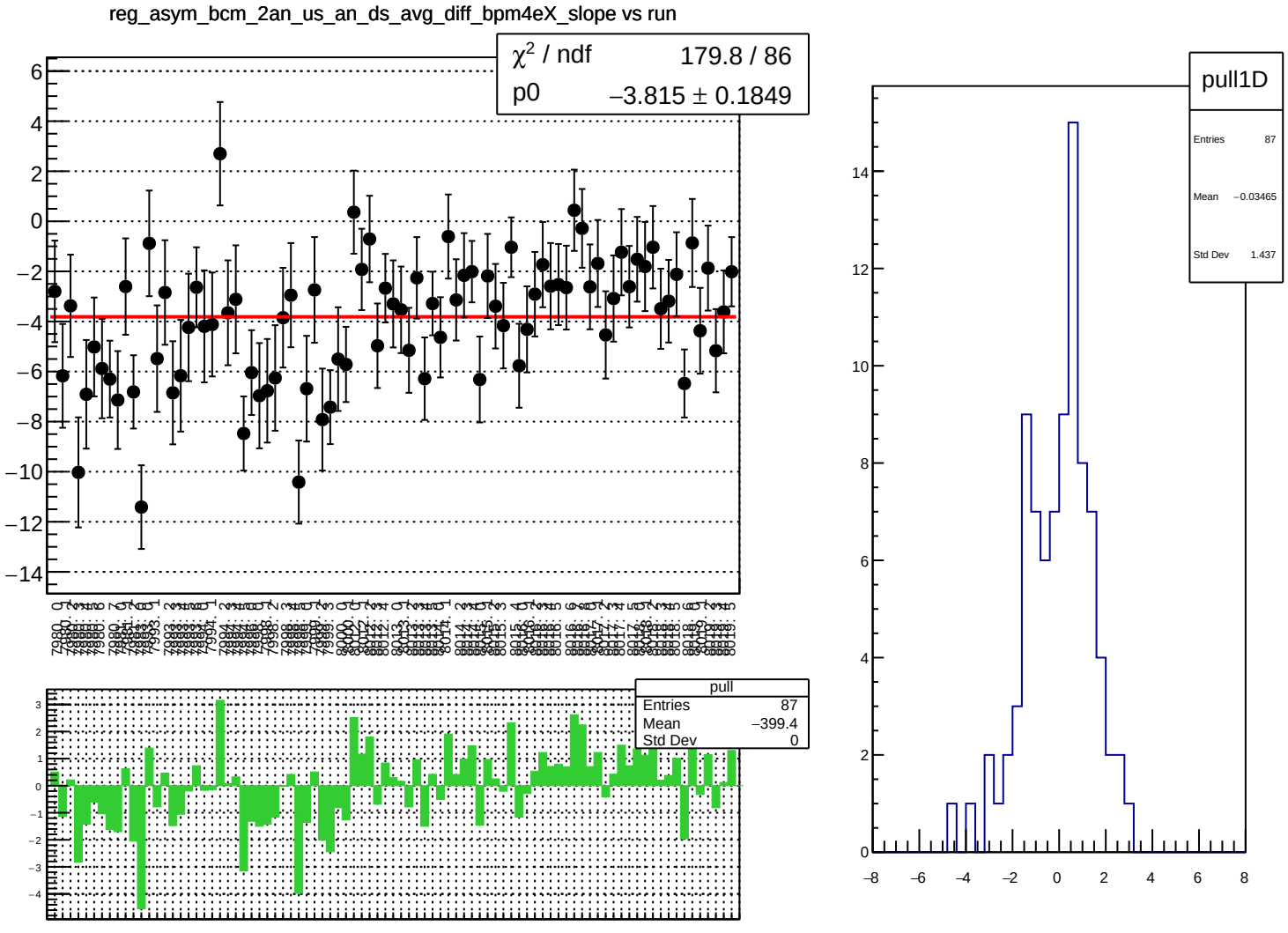

pull1D
Entries 87
Mean −0.1017
Std Dev 1.192

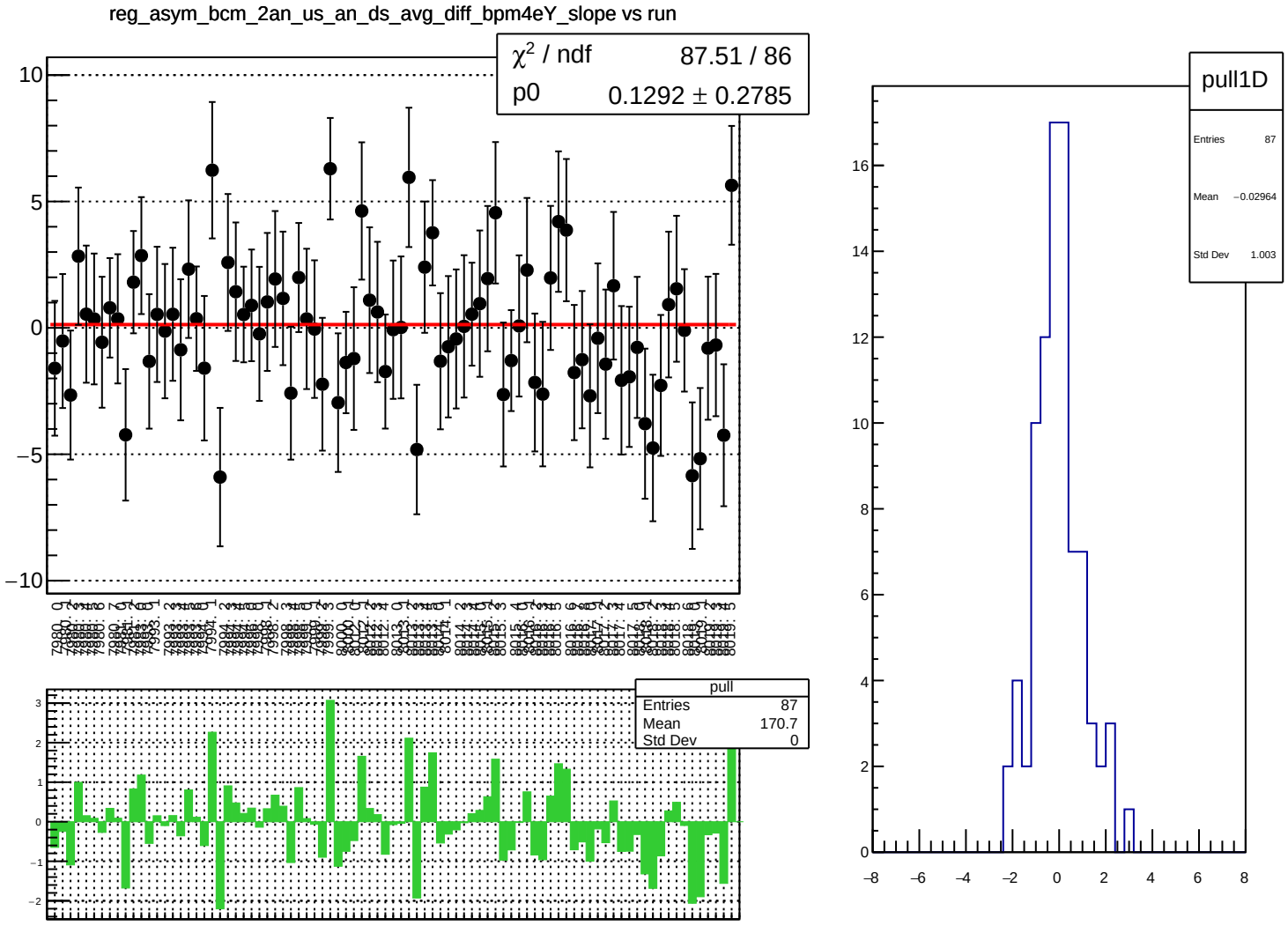

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 176.5 / 86
p0 4.237 ± 0.1831
pull
Entries 87
Mean −142.5
Std Dev 0

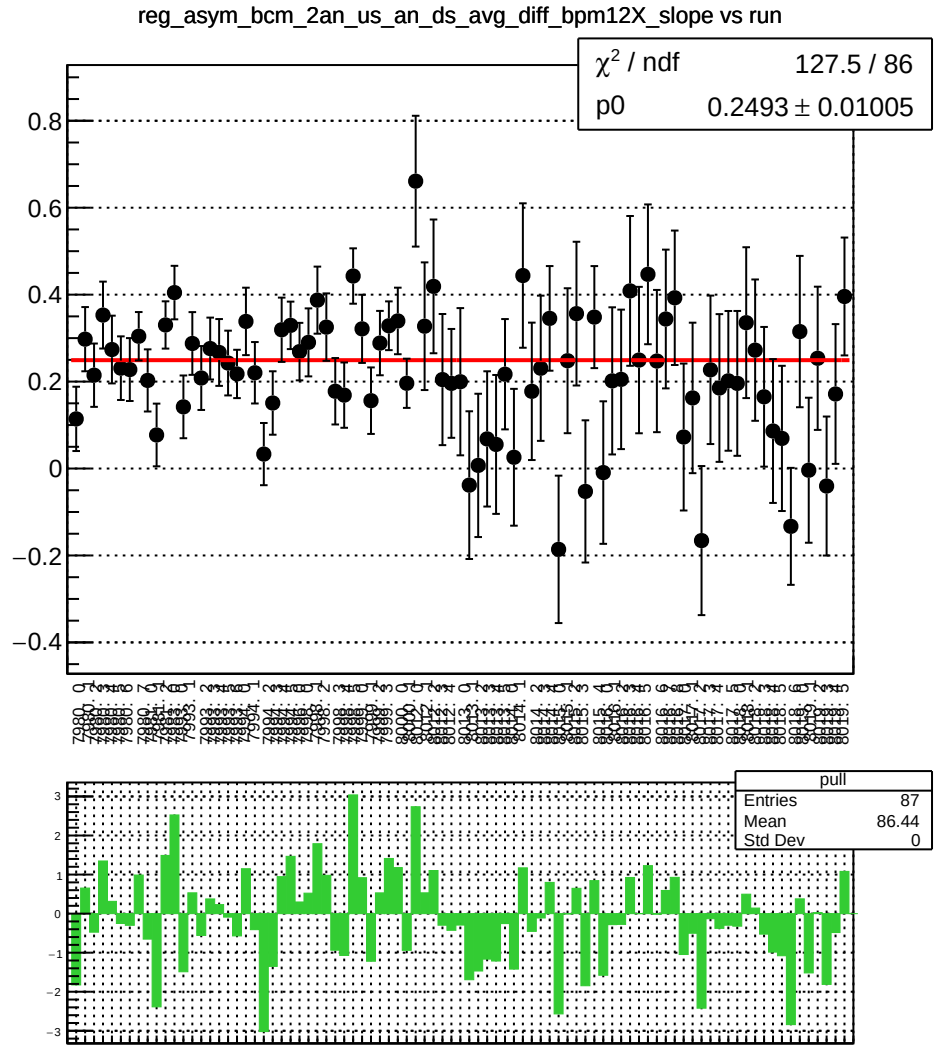

pull1D
Entries 87
Mean 0.08175
Std Dev 1.422

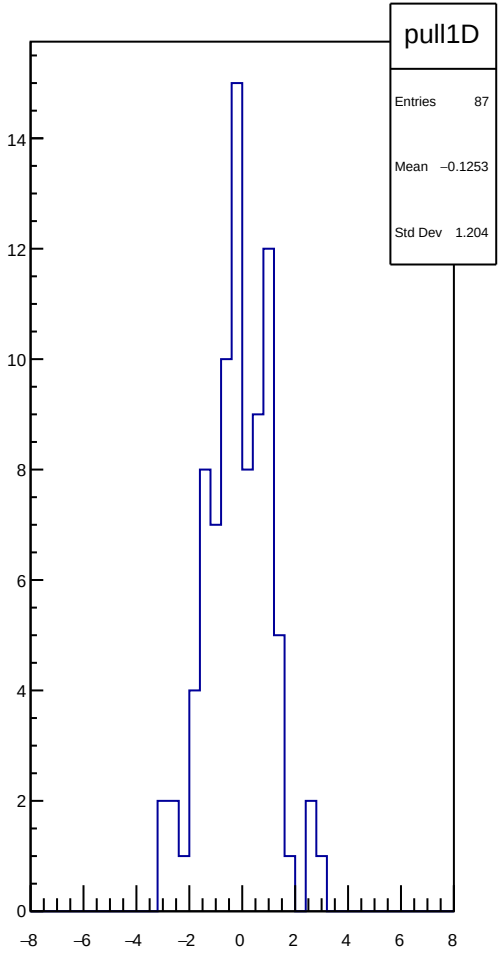

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.95 / 86
p0 −0.5876 ± 0.2544
pull
Entries 87
Mean 114
Std Dev 0

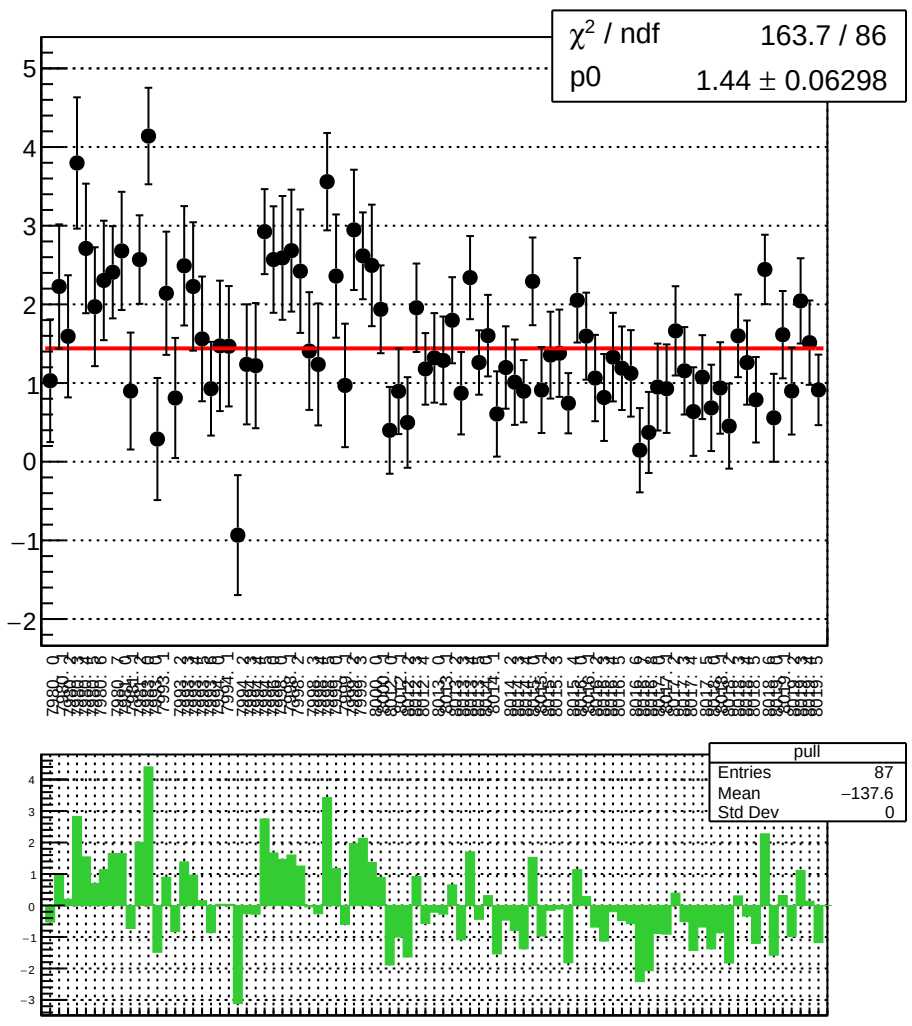

pull1D
Entries 87
Mean 0.03041
Std Dev 0.9935

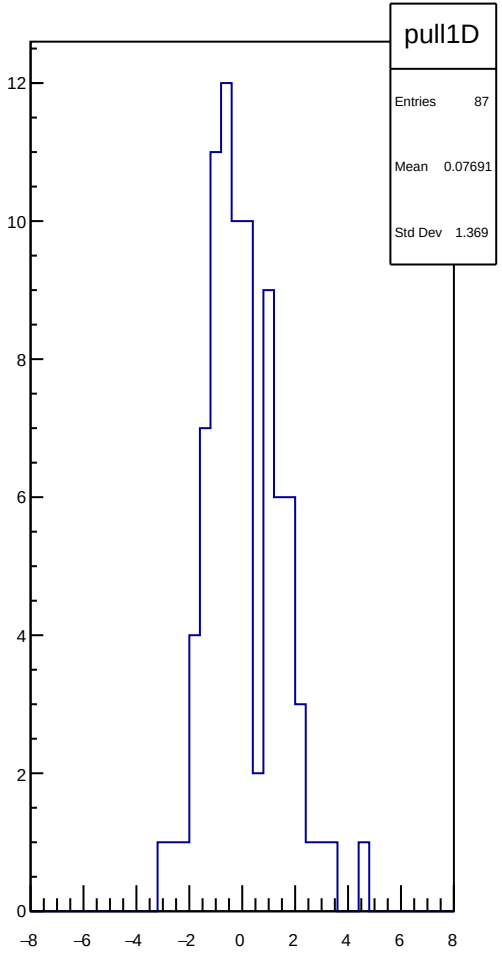

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 179.8 / 86
p0 −3.815 ± 0.1849
pull
Entries 87
Mean −399.4
Std Dev 0
pull1D
Entries 87
Mean −0.03465
Std Dev 1.437

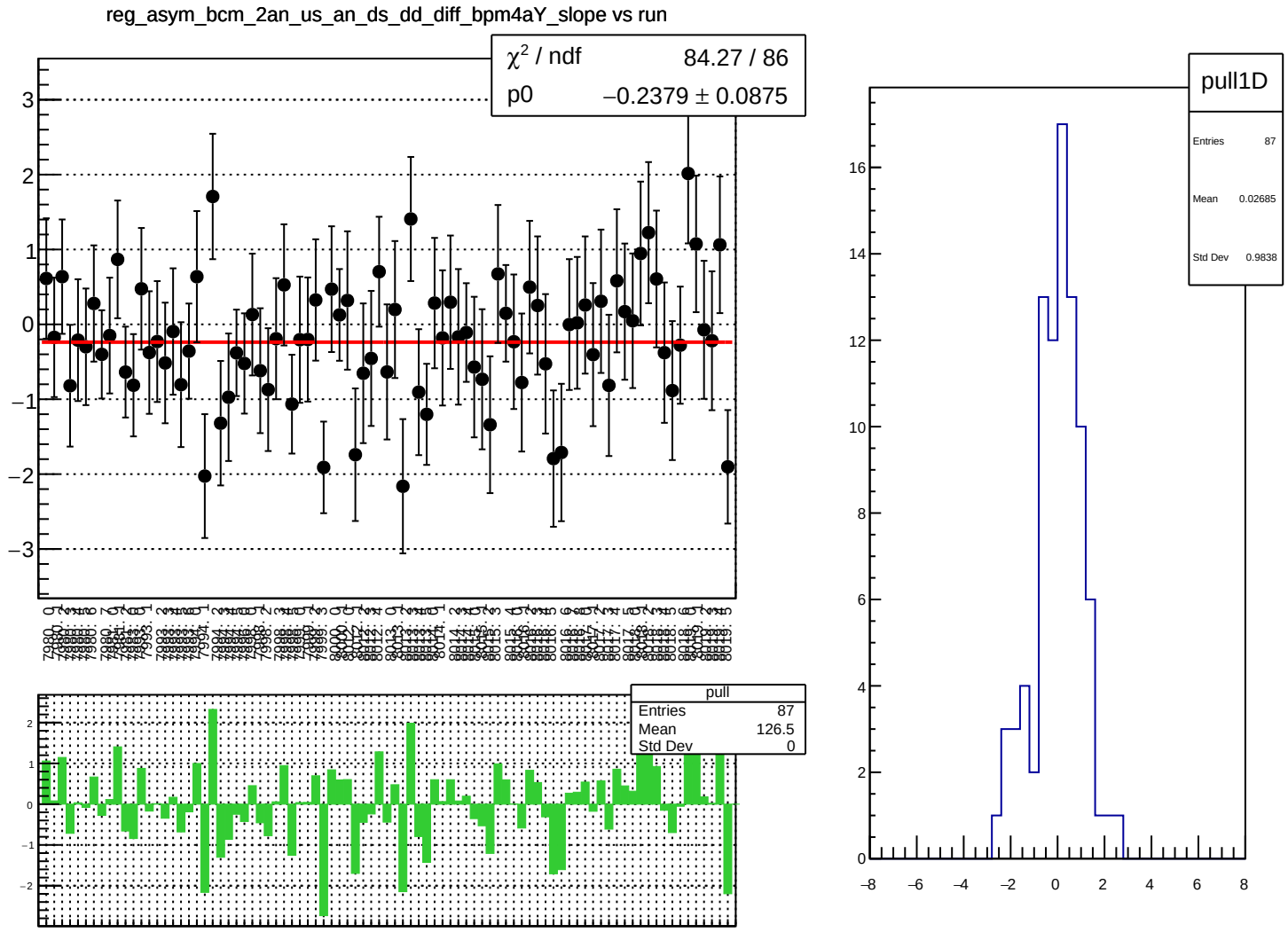

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 87.51 / 86
p0 0.1292 ± 0.2785
pull
Entries 87
Mean 170.7
Std Dev 0
pull1D
Entries 87
Mean −0.02964
Std Dev 1.003

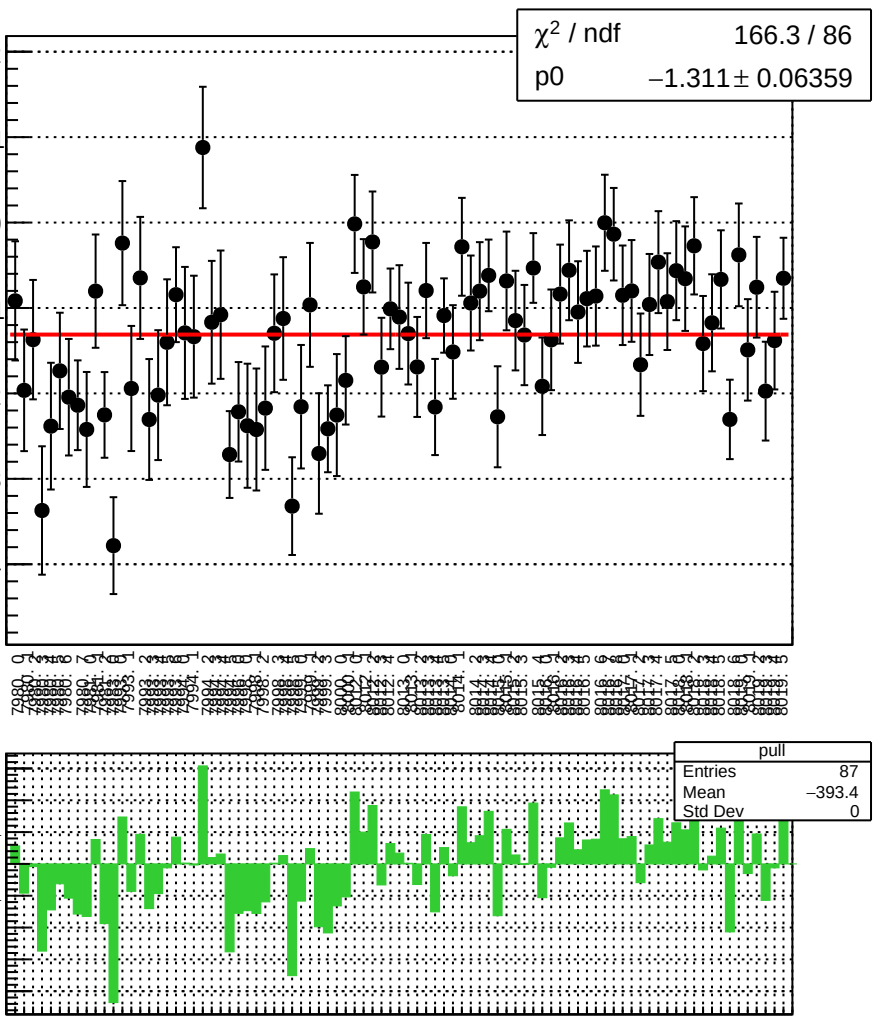

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 127.5 / 86
p0 0.2493 ± 0.01005
pull
Entries 87
Mean 86.44
Std Dev 0

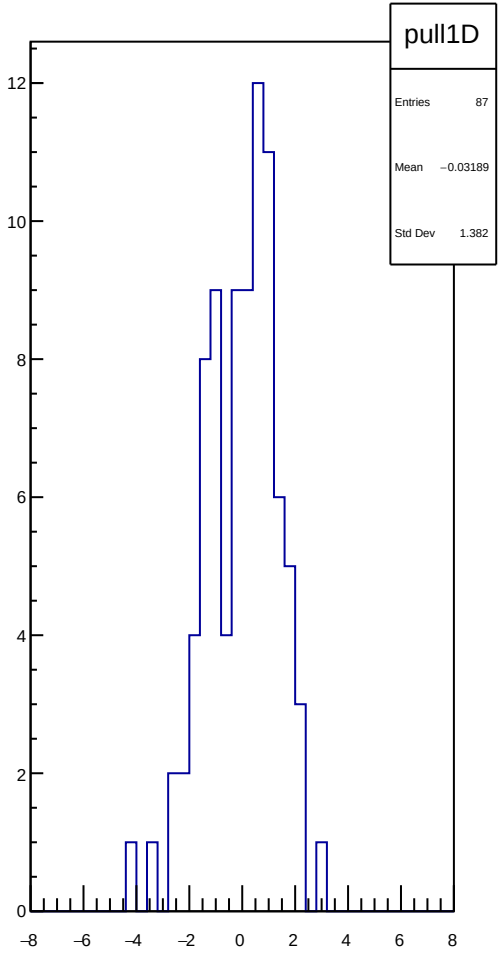

pull1D
Entries 87
Mean −0.1253
Std Dev 1.204

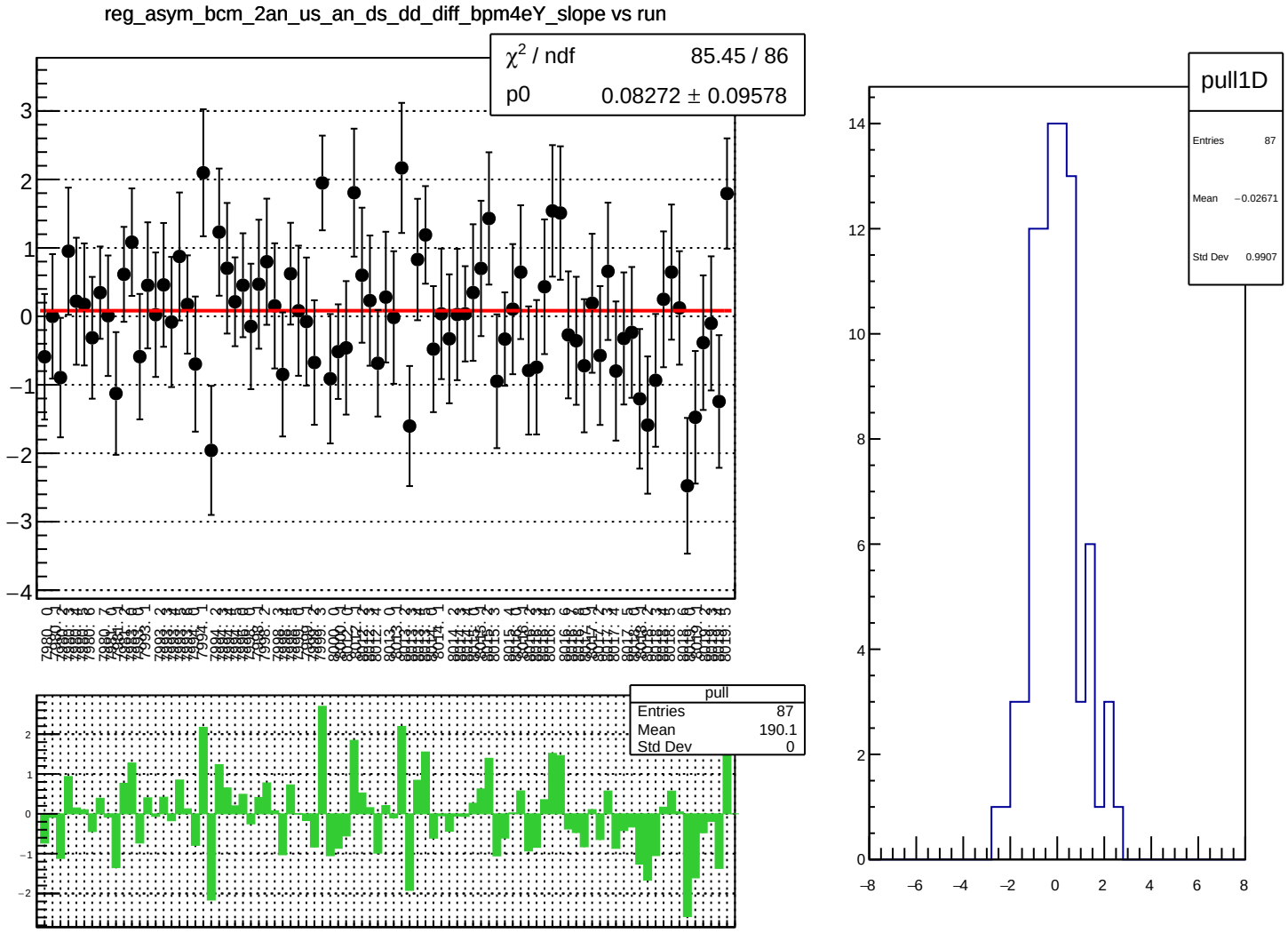

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 163.7 / 86
p0 1.44 ± 0.06298
pull
Entries 87
Mean −137.6
Std Dev 0

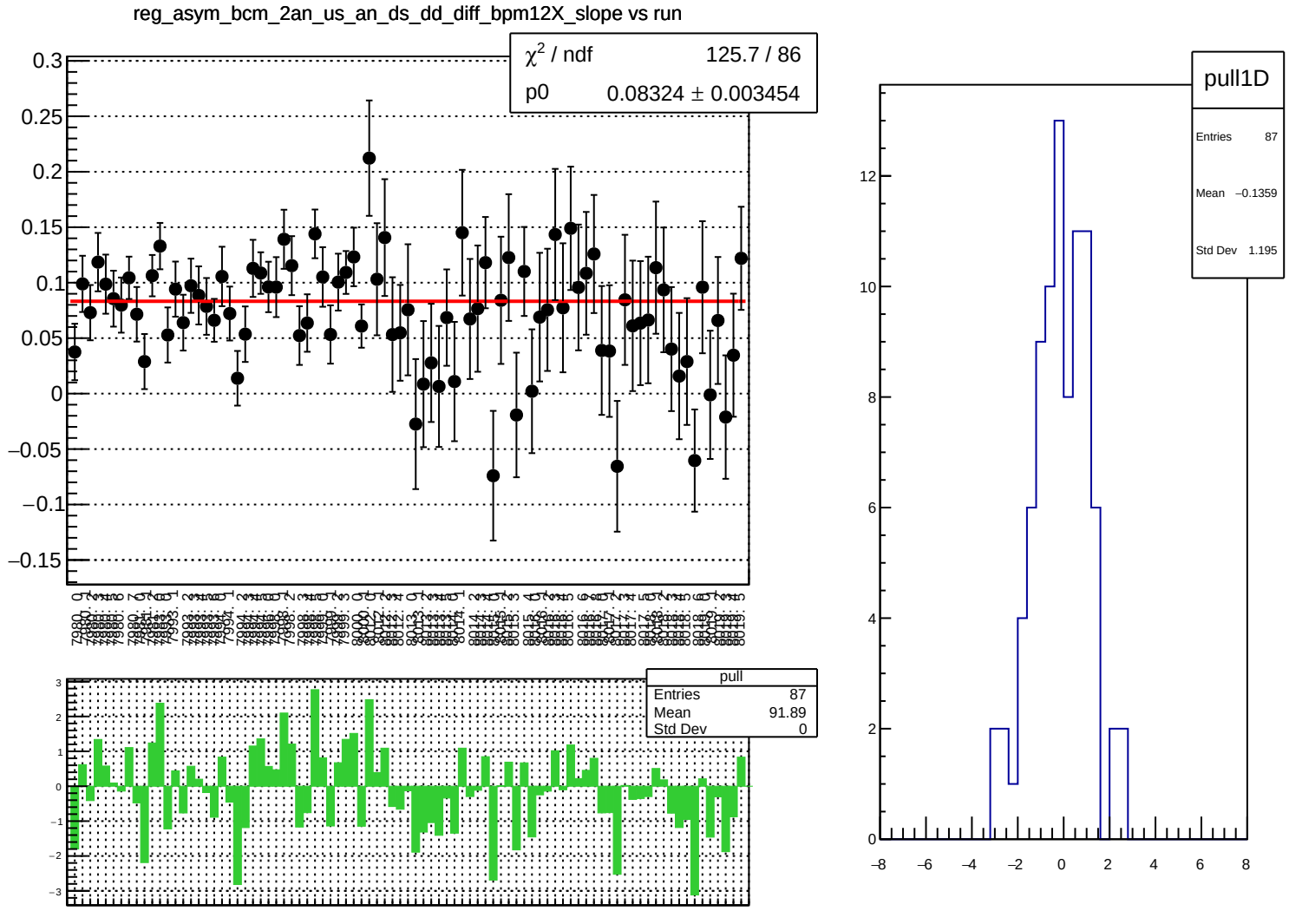

pull1D
Entries 87
Mean 0.07691
Std Dev 1.369

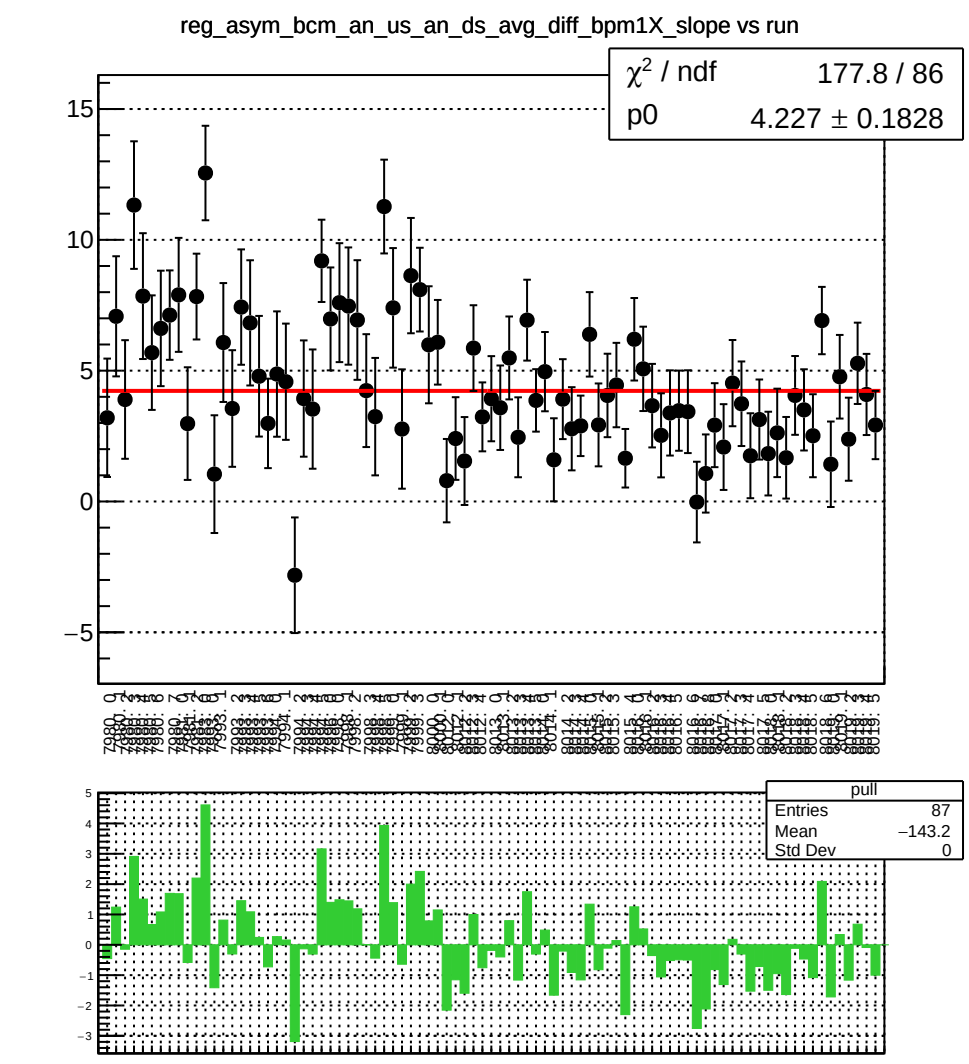

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.27 / 86
p0 −0.2379 ± 0.0875
pull
Entries 87
Mean 126.5
Std Dev 0
pull1D
Entries 87
Mean 0.02685
Std Dev 0.9838

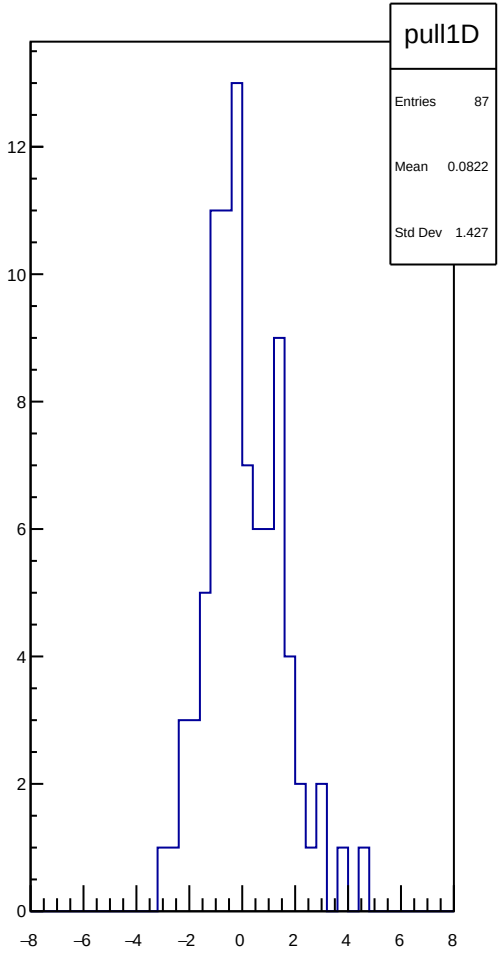

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 166.3 / 86
p0 −1.311 ± 0.06359
pull
Entries 87
Mean −393.4
Std Dev 0

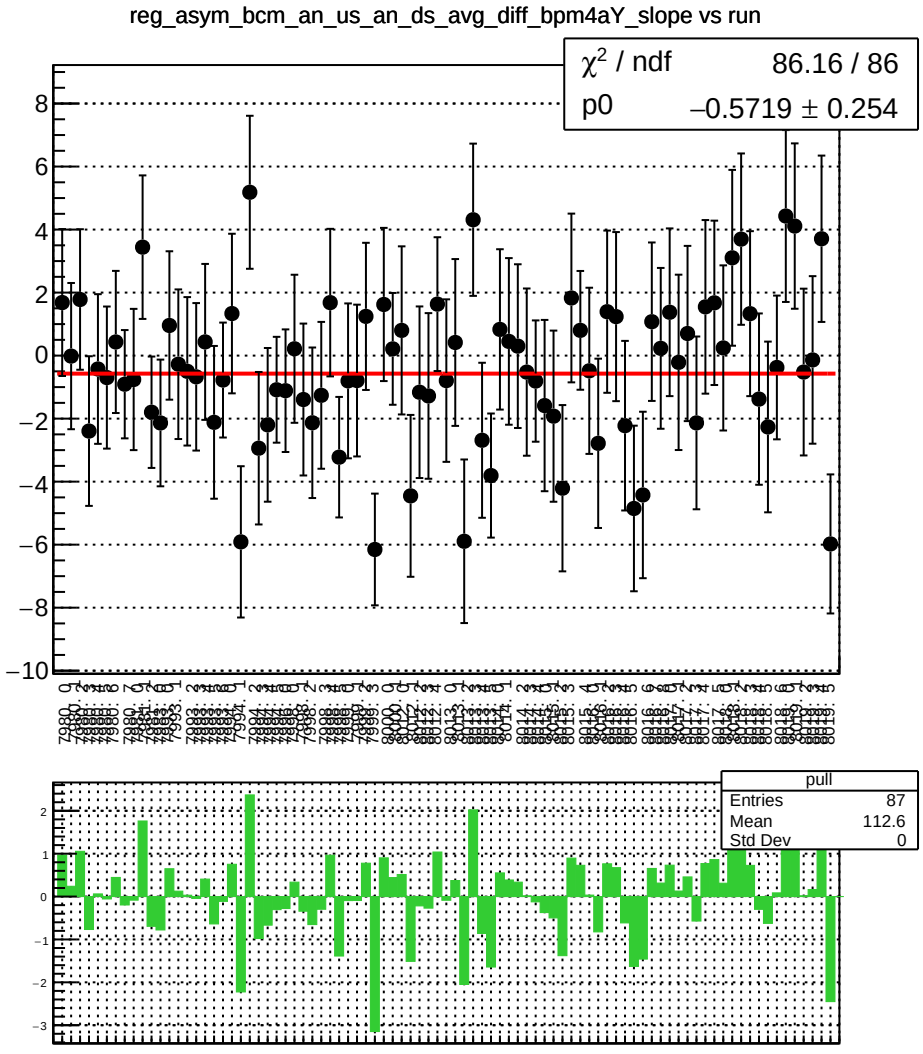

pull1D
Entries 87
Mean −0.03189
Std Dev 1.382

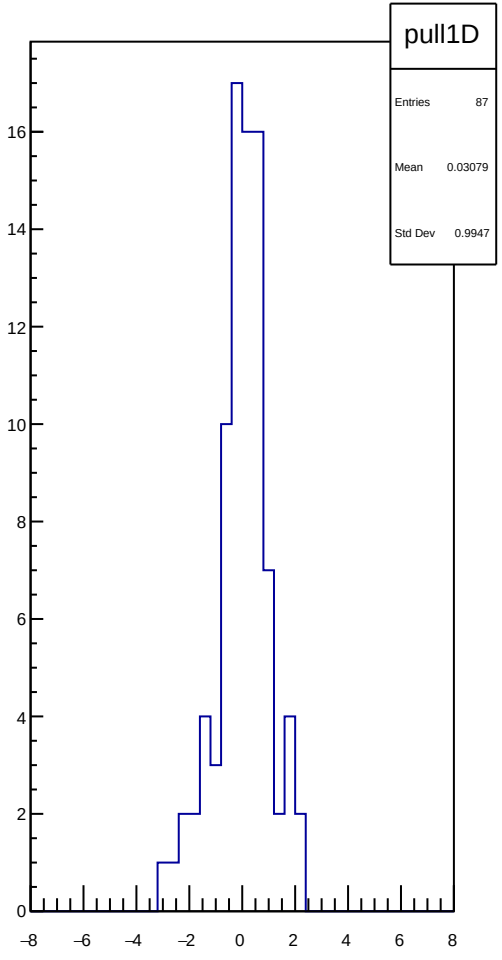

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.45 / 86
p0 0.08272 ± 0.09578
pull
Entries 87
Mean 190.1
Std Dev 0
pull1D
Entries 87
Mean −0.02671
Std Dev 0.9907

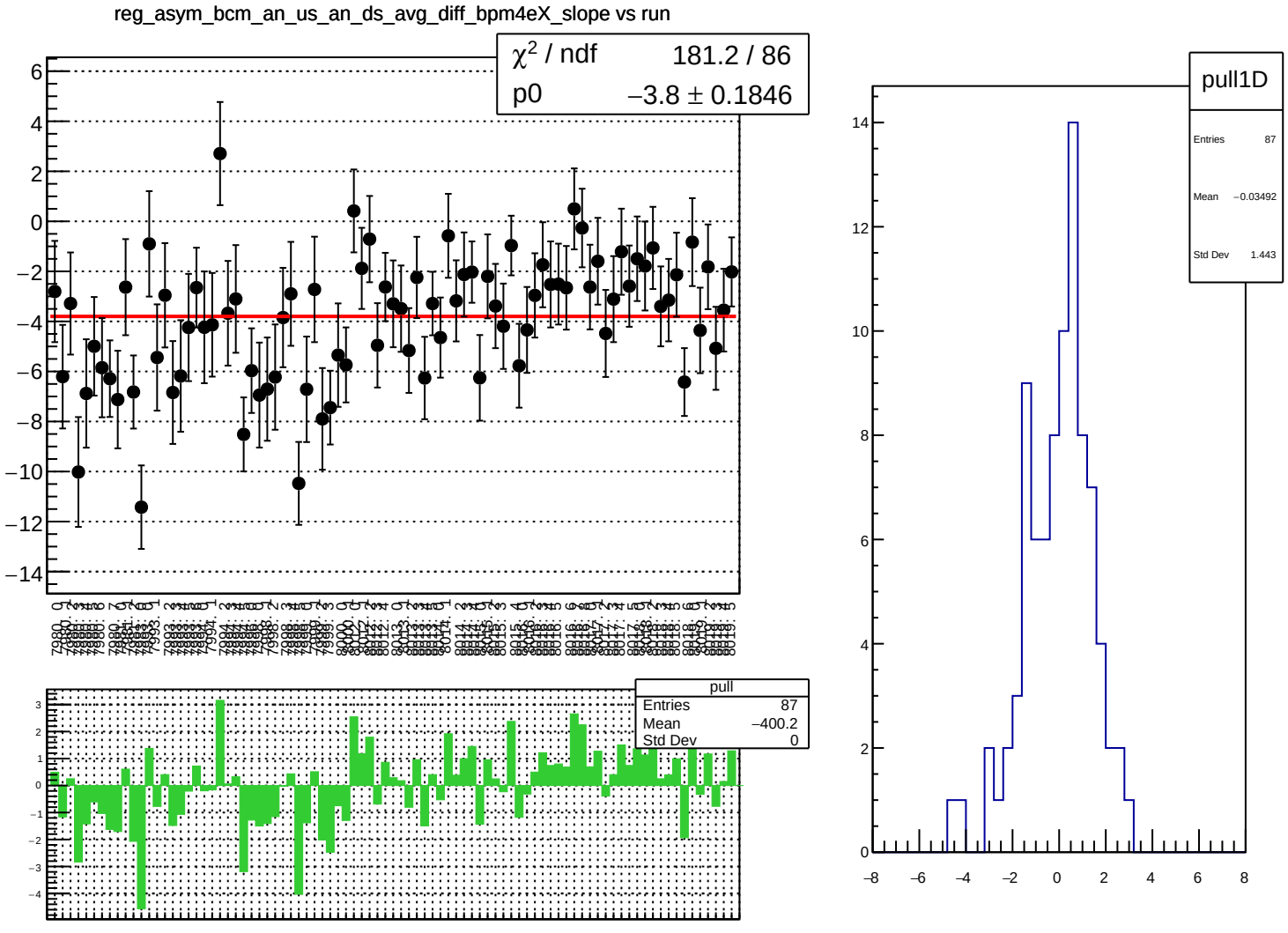

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 125.7 / 86
p0 0.08324 ± 0.003454
pull
Entries 87
Mean 91.89
Std Dev 0
pull1D
Entries 87
Mean −0.1359
Std Dev 1.195

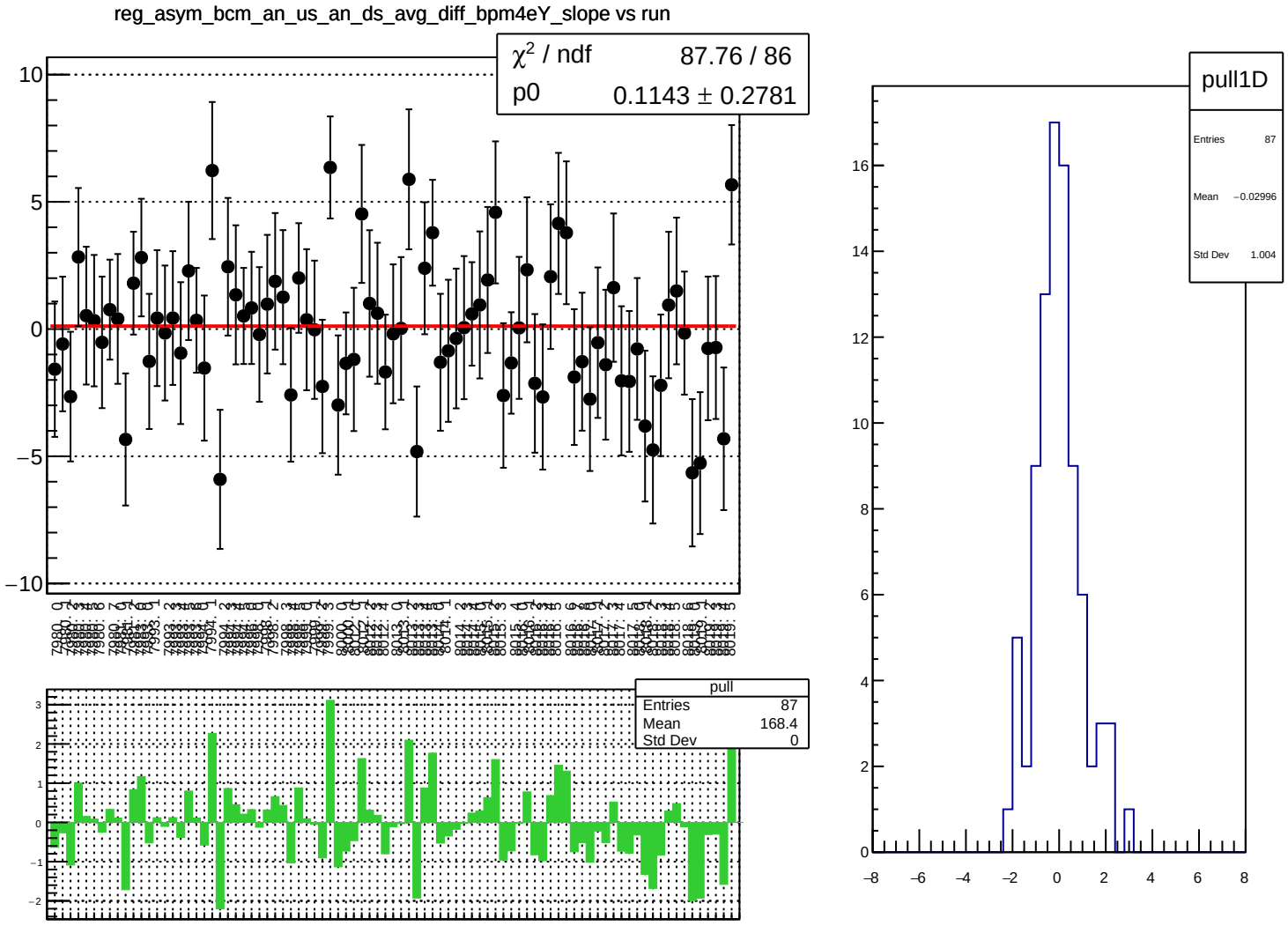

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 177.8 / 86
p0 4.227 ± 0.1828
pull
Entries 87
Mean −143.2
Std Dev 0

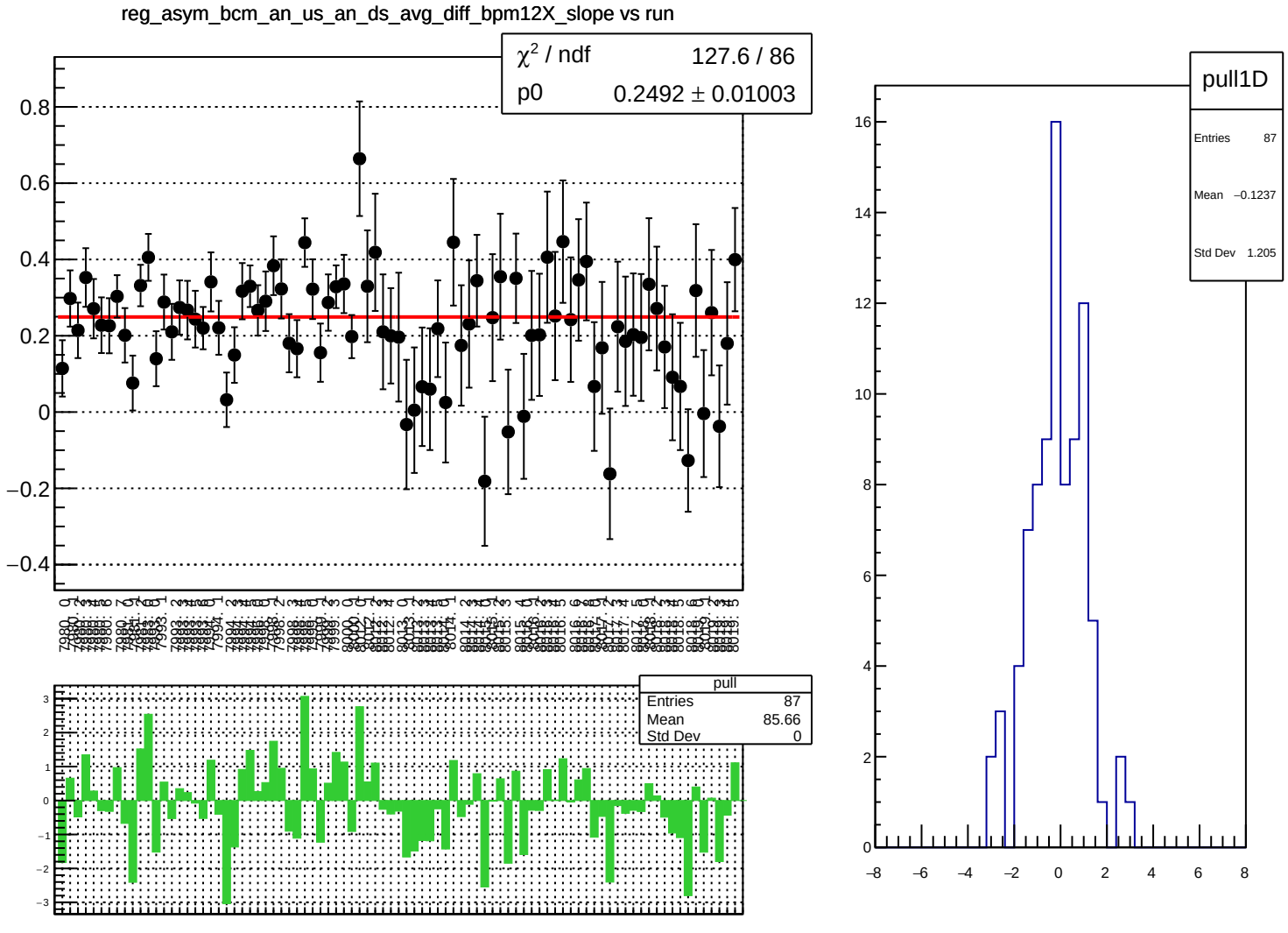

pull1D
Entries 87
Mean 0.0822
Std Dev 1.427

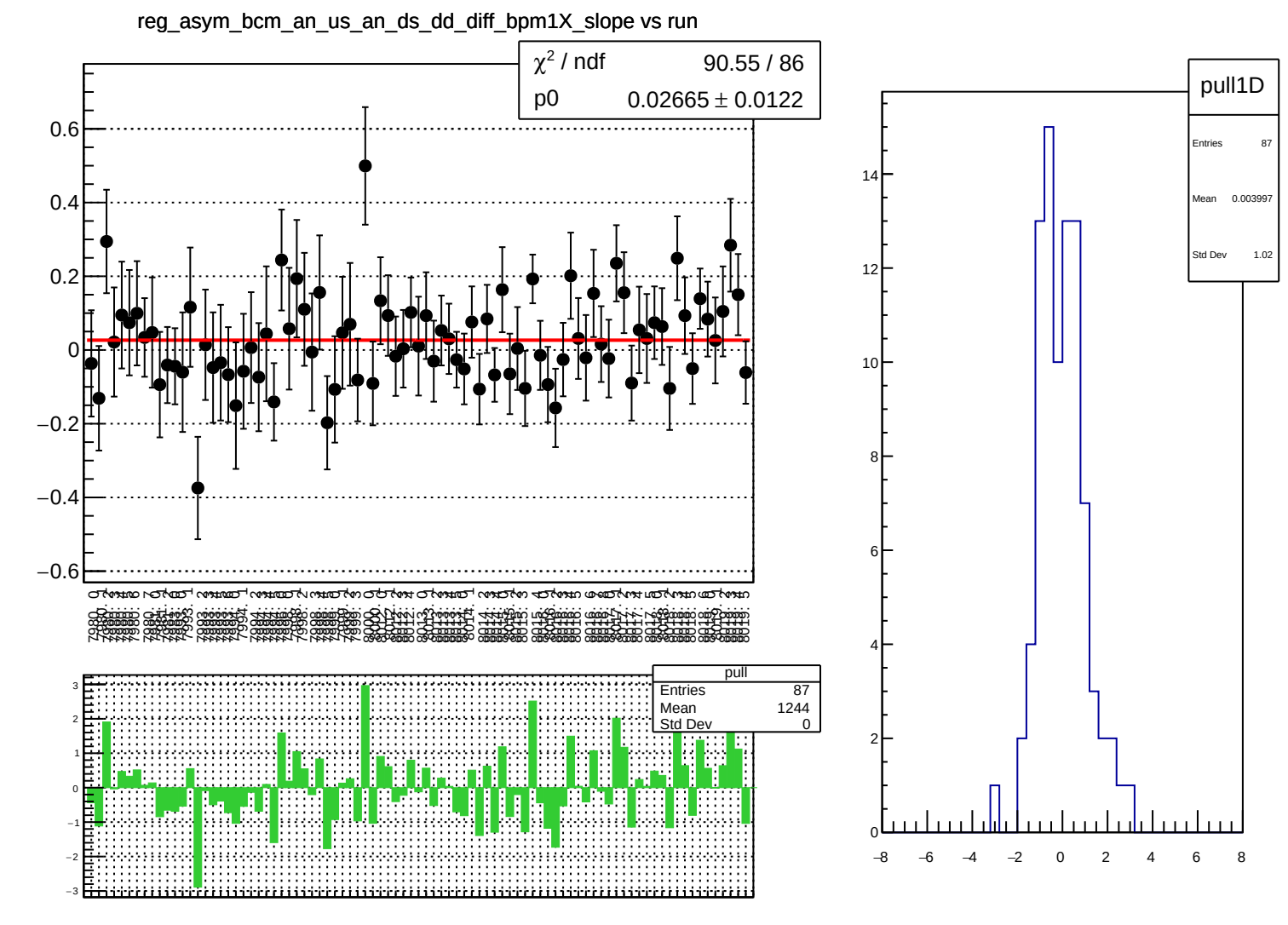

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.16 / 86
p0 −0.5719 ± 0.254
pull
Entries 87
Mean 112.6
Std Dev 0

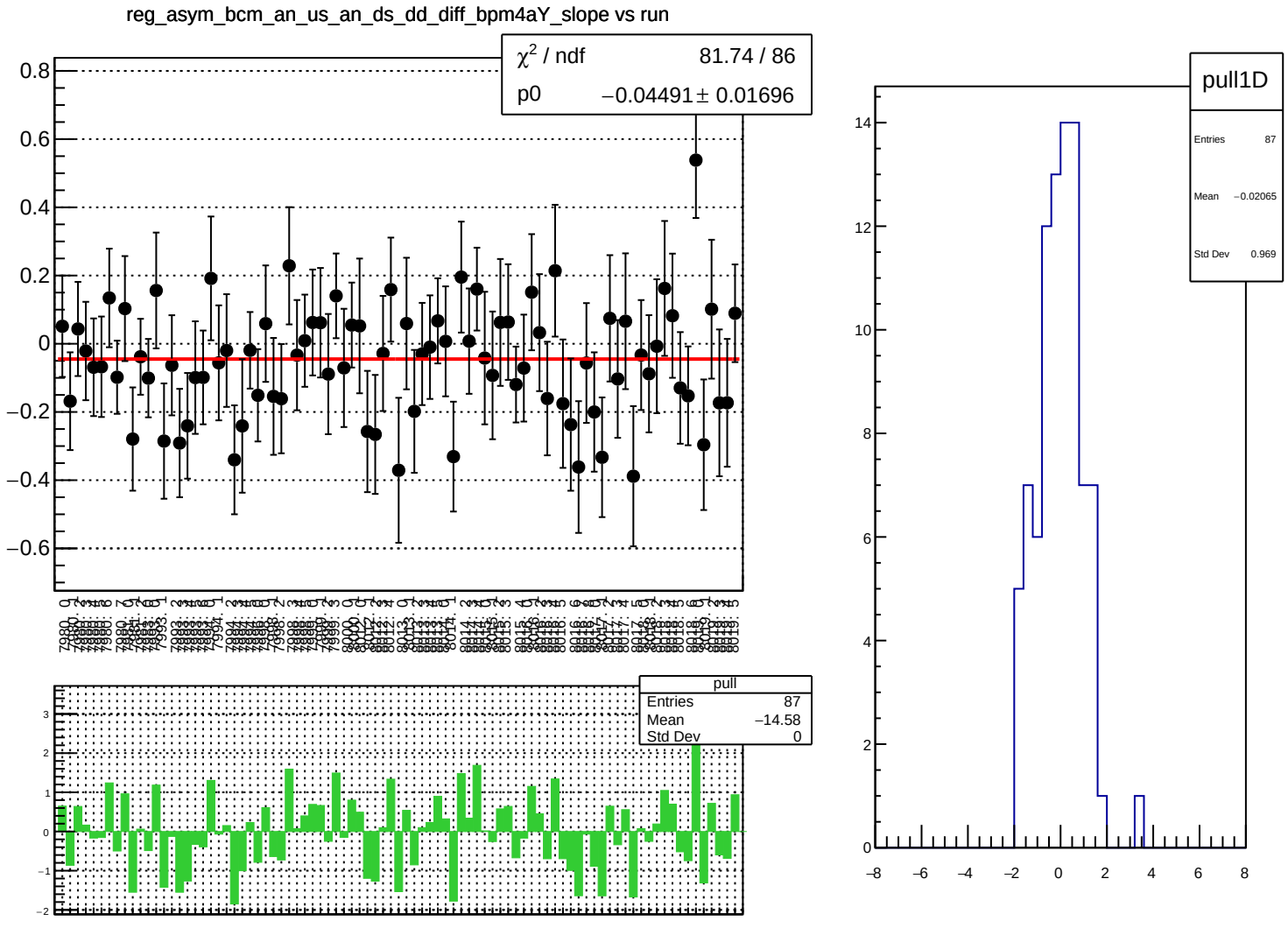

pull1D
Entries 87
Mean 0.03079
Std Dev 0.9947

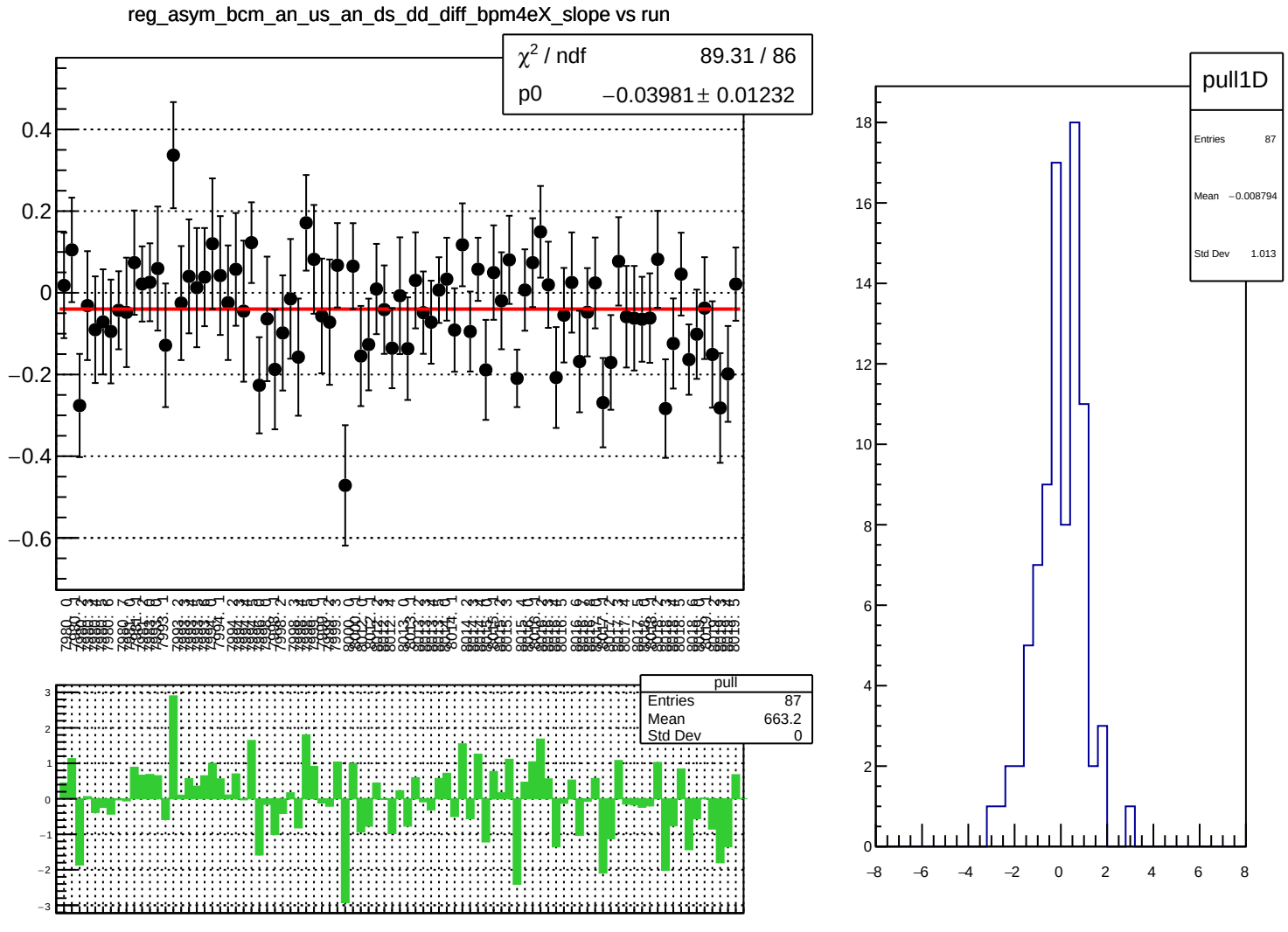

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 181.2 / 86
p0 −3.8 ± 0.1846
pull
Entries 87
Mean −400.2
Std Dev 0
pull1D
Entries 87
Mean −0.03492
Std Dev 1.443

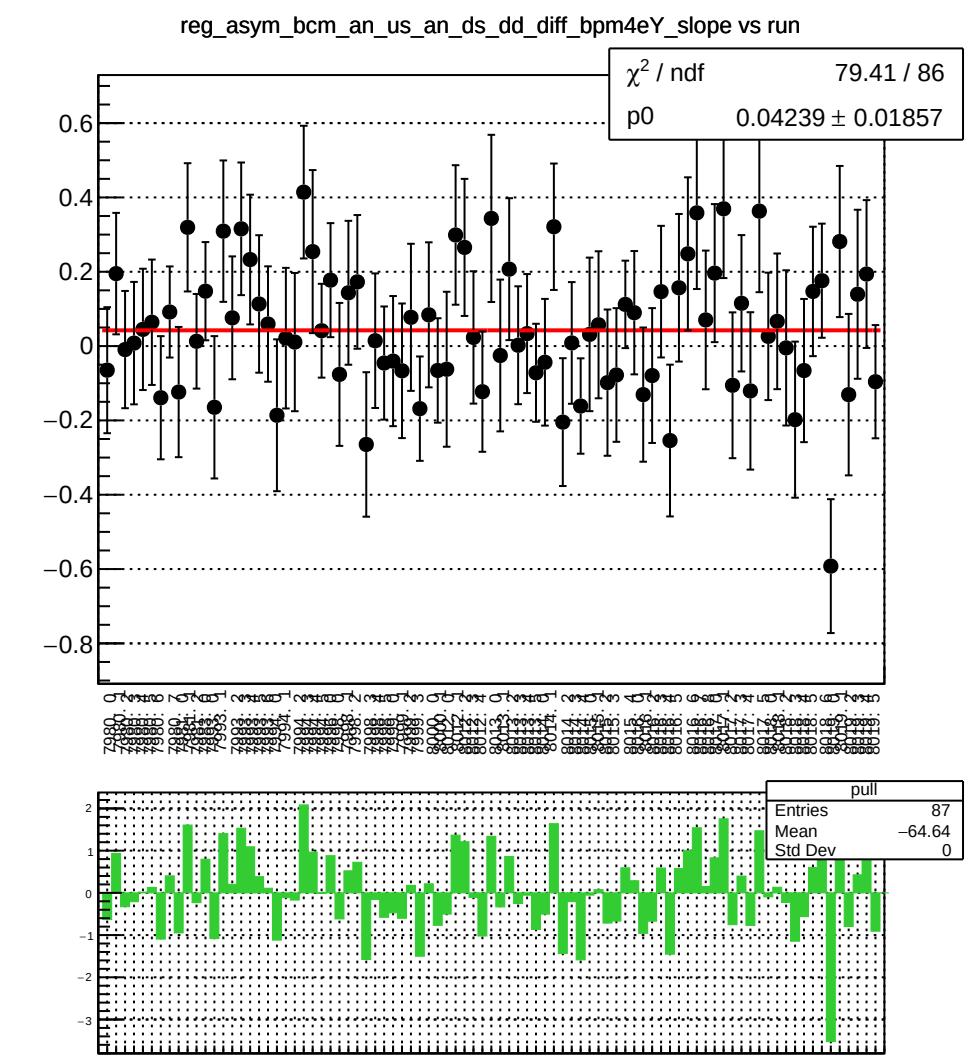

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 87.76 / 86
p0 0.1143 ± 0.2781
pull
Entries 87
Mean 168.4
Std Dev 0
pull1D
Entries 87
Mean −0.02996
Std Dev 1.004

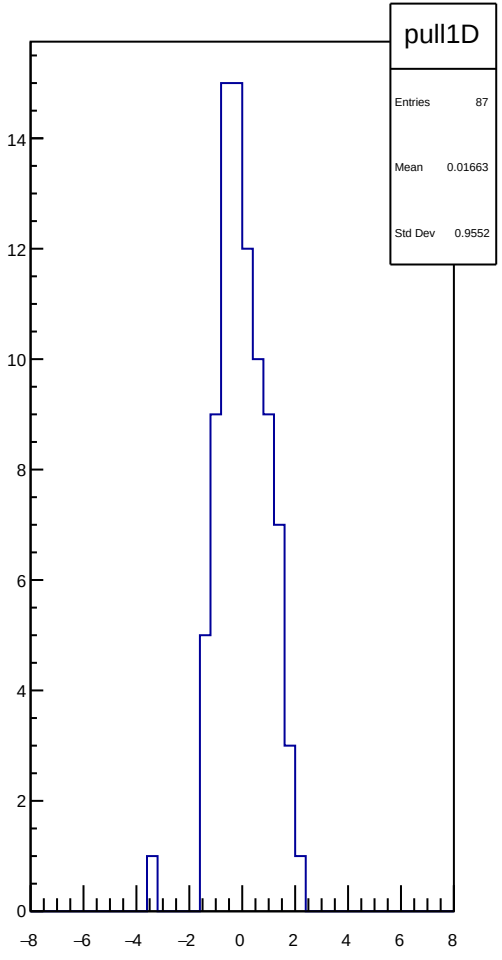

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 127.6 / 86
p0 0.2492 ± 0.01003
pull
Entries 87
Mean 85.66
Std Dev 0
pull1D
Entries 87
Mean −0.1237
Std Dev 1.205

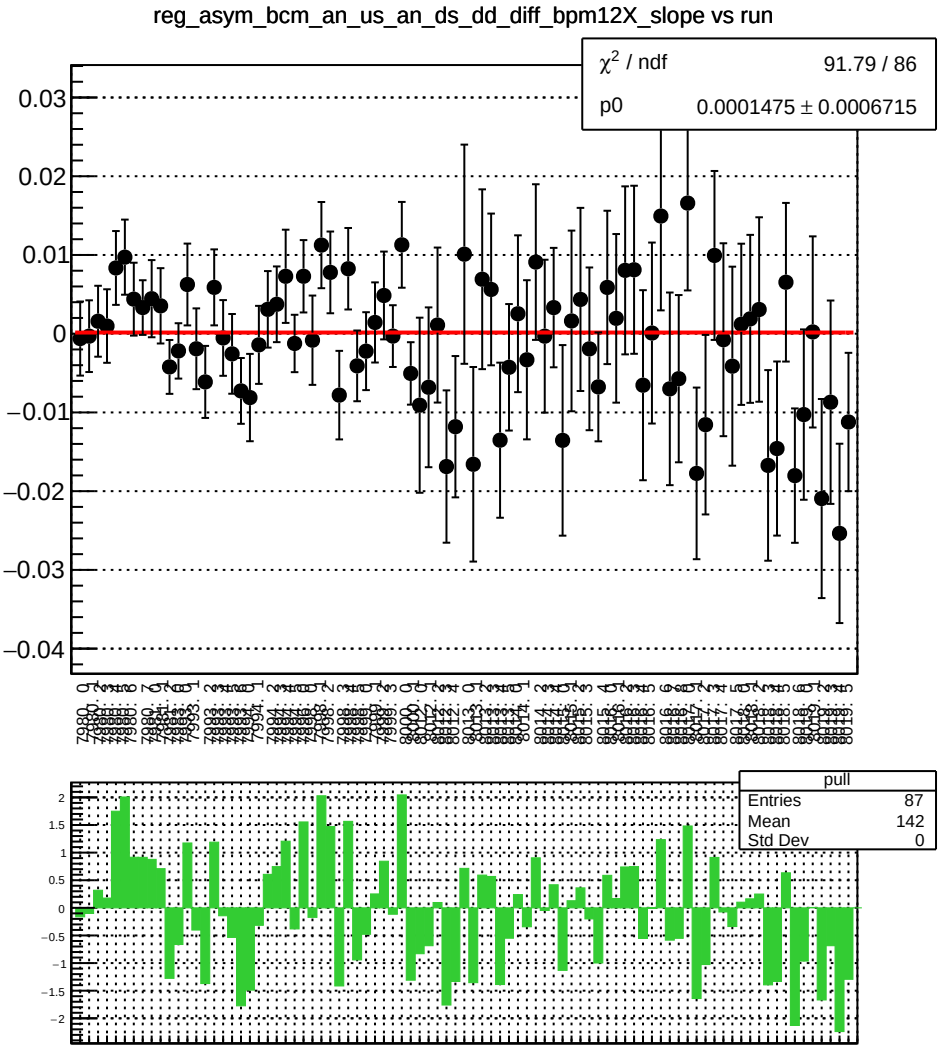

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 90.55 / 86
p0 0.02665 ± 0.0122
pull
Entries 87
Mean 1244
Std Dev 0
pull1D
Entries 87
Mean 0.003997
Std Dev 1.02

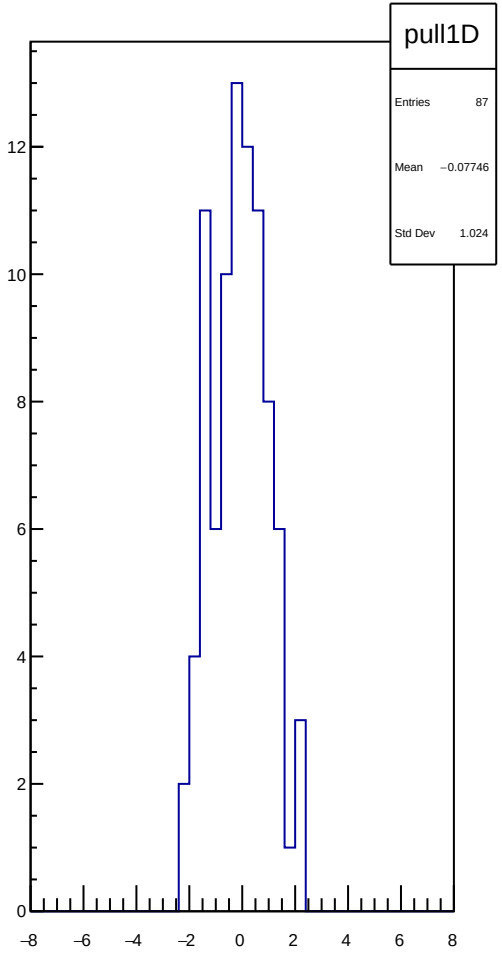

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.74 / 86
p0 −0.04491 ± 0.01696
pull
Entries 87
Mean −14.58
Std Dev 0
pull1D
Entries 87
Mean −0.02065
Std Dev 0.969

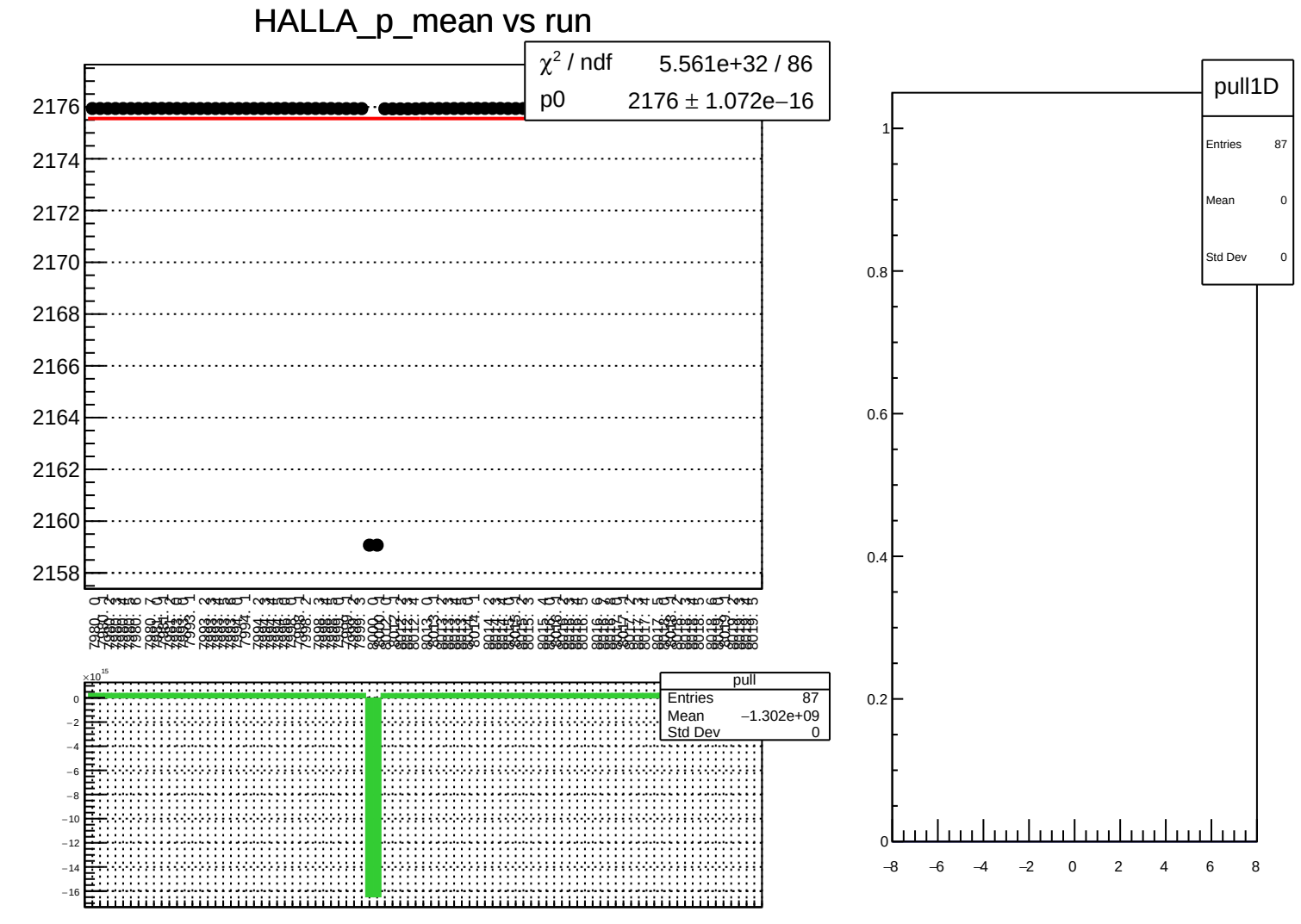

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.31 / 86
p0 −0.03981 ± 0.01232
pull
Entries 87
Mean 663.2
Std Dev 0
pull1D
Entries 87
Mean −0.008794
Std Dev 1.013

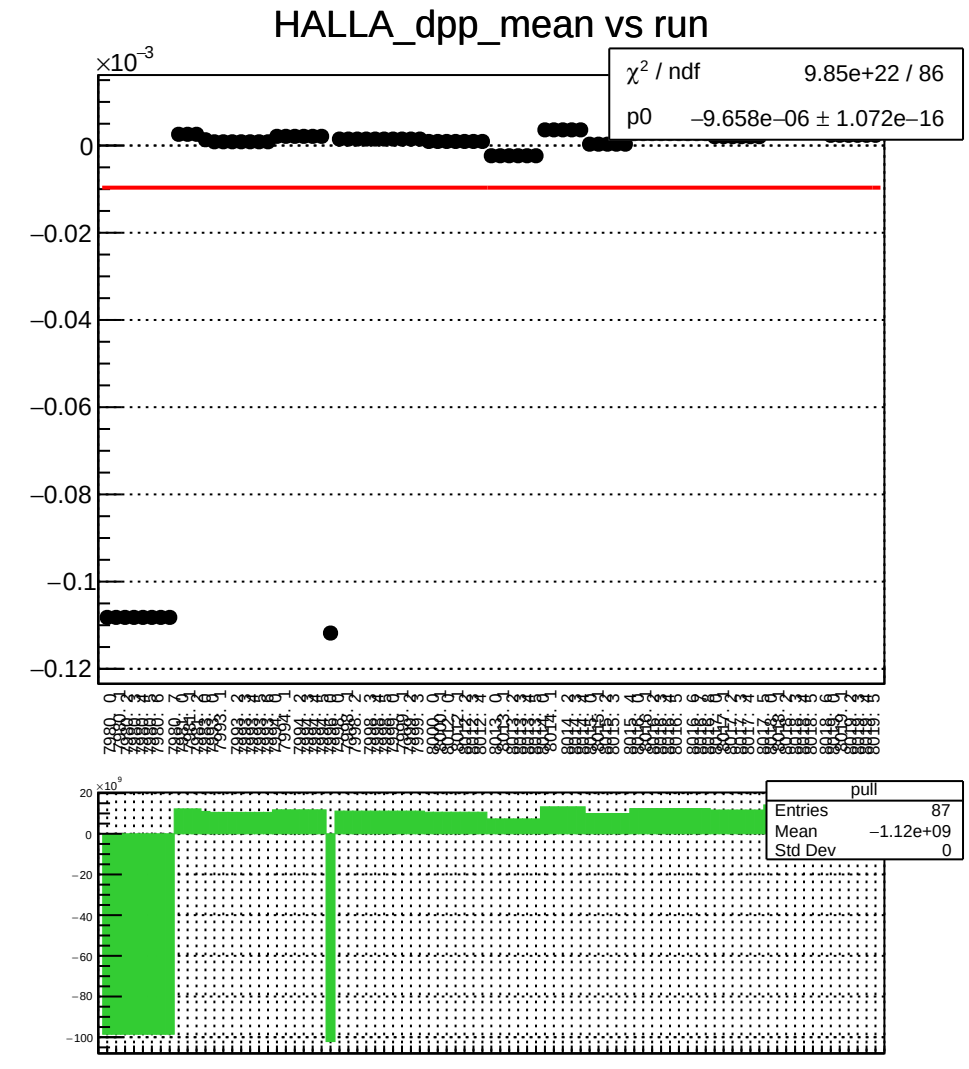

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.41 / 86
p0 0.04239 ± 0.01857
pull
Entries 87
Mean −64.64
Std Dev 0

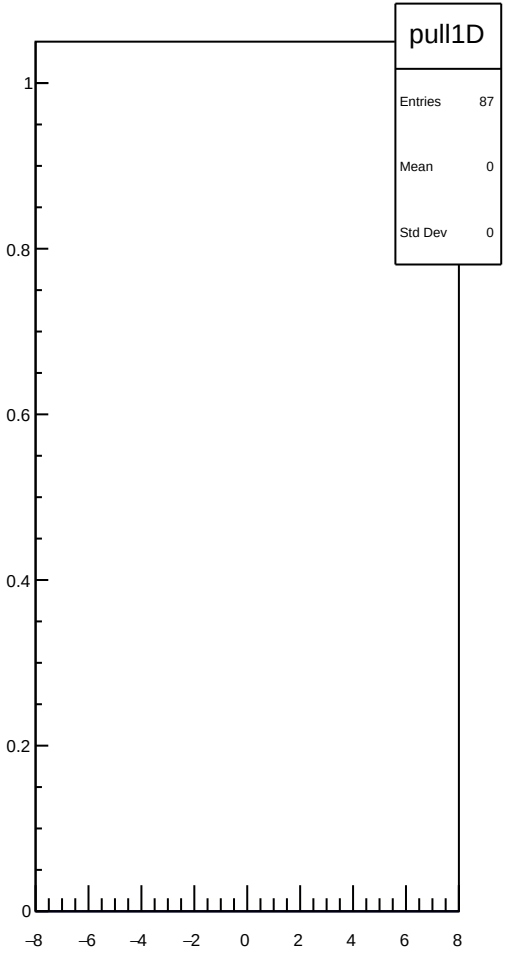

pull1D
Entries 87
Mean 0.01663
Std Dev 0.9552

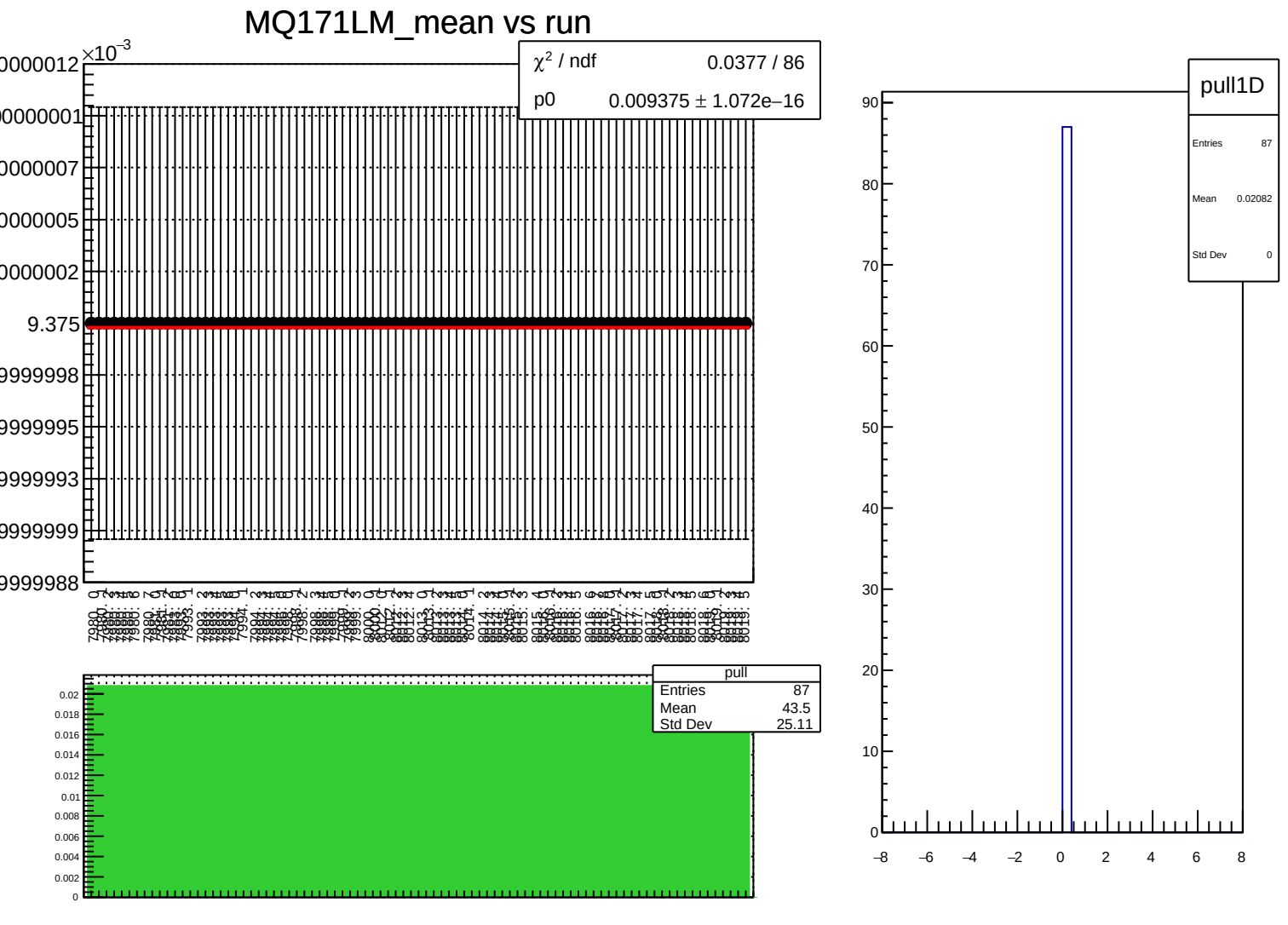

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 91.79 / 86
p0 0.0001475 ± 0.0006715
pull
Entries 87
Mean 142
Std Dev 0

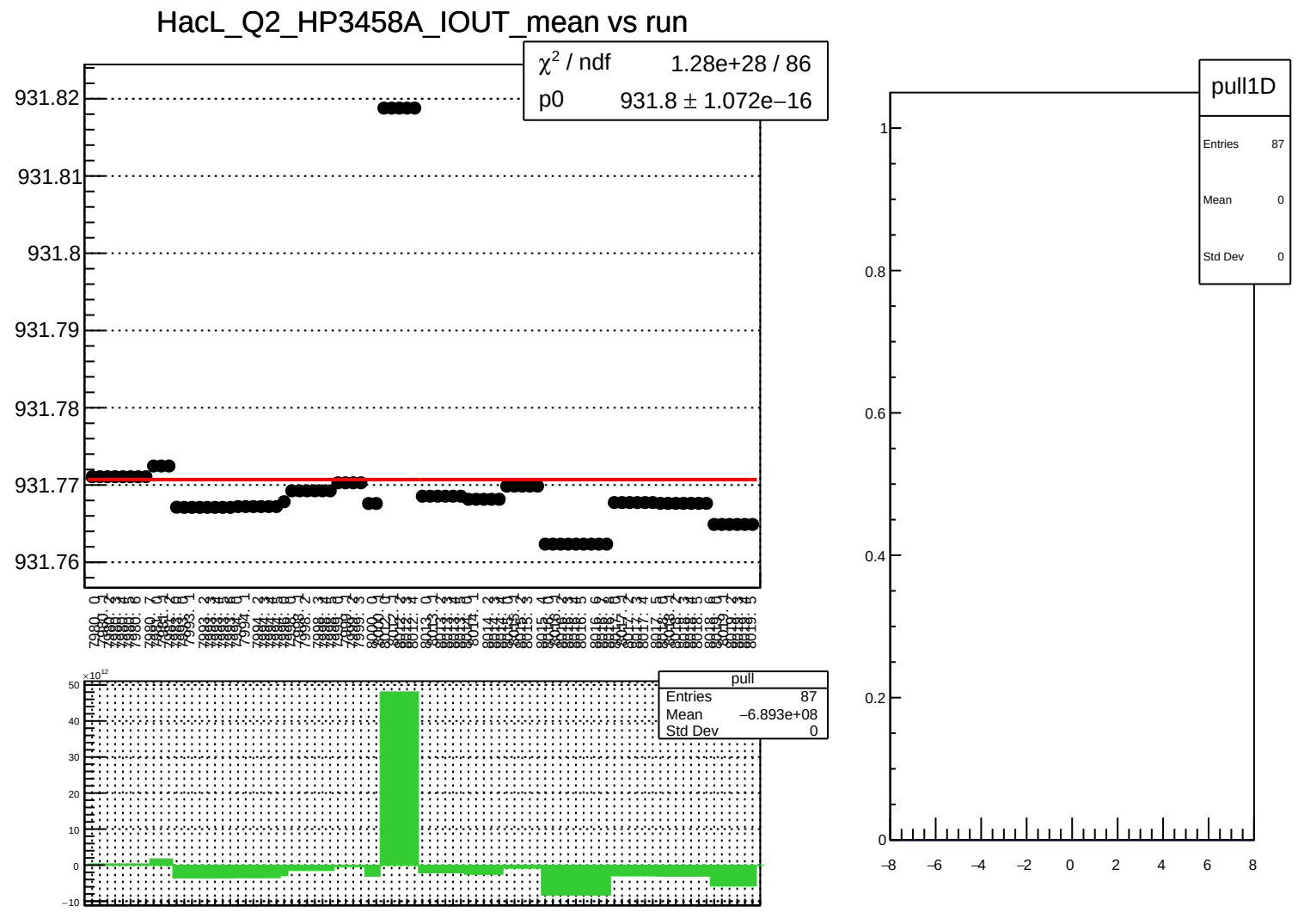

pull1D
Entries 87
Mean −0.07746
Std Dev 1.024

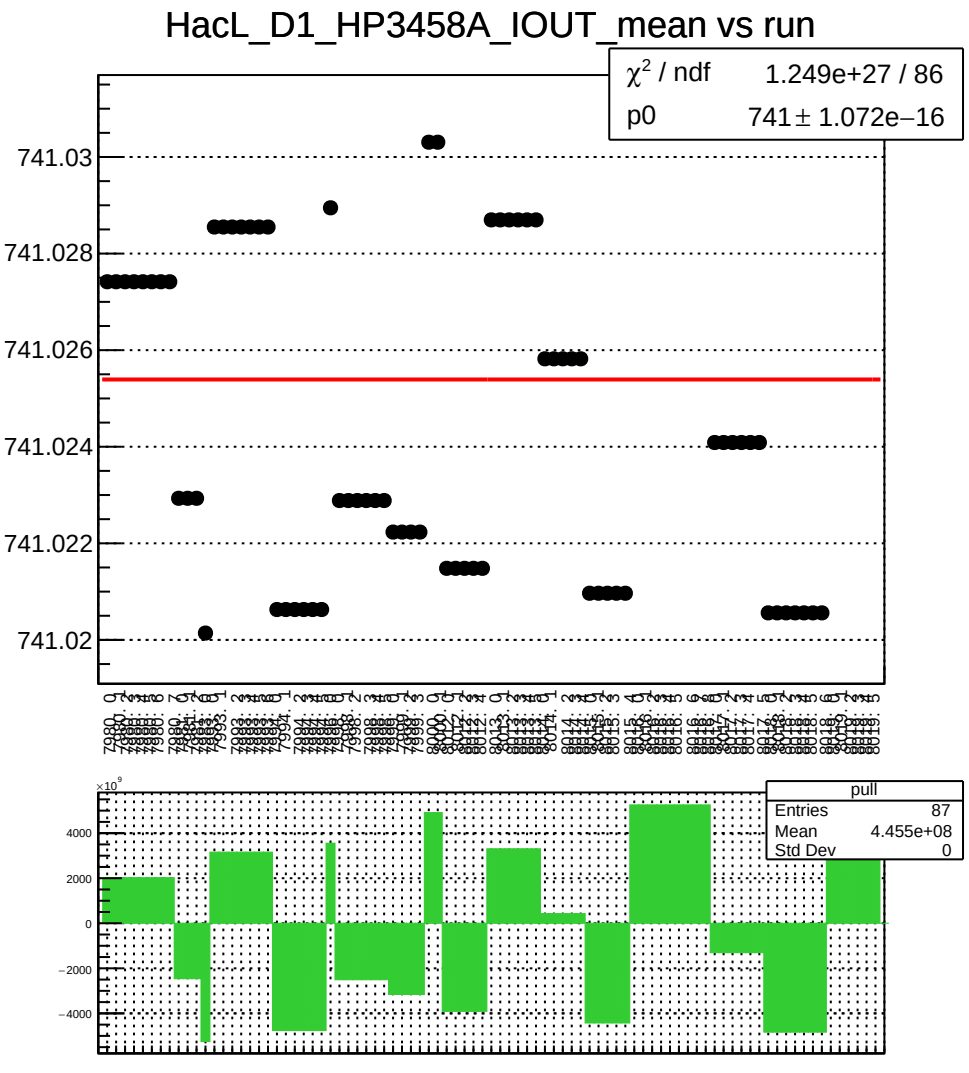

HALLA_p_mean vs run
χ² / ndf 5.561e+32 / 86
p0 2176 ± 1.072e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 87
Mean −1.302e+09
Std Dev 0
×10¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

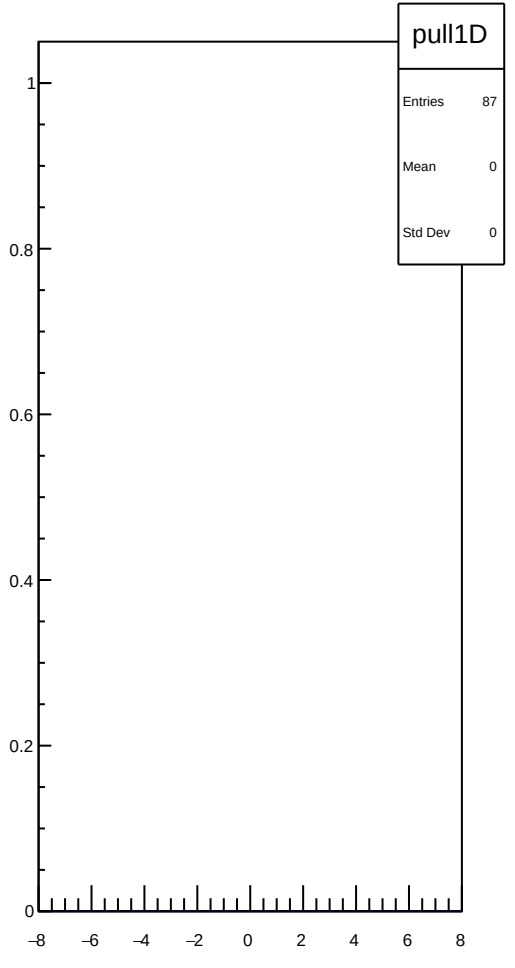

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 9.85e+22 / 86
p0 −9.658e−06 ± 1.072e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
20
0
−20
−40
−60
−80
−100
pull
Entries 87
Mean −1.12e+09
Std Dev 0

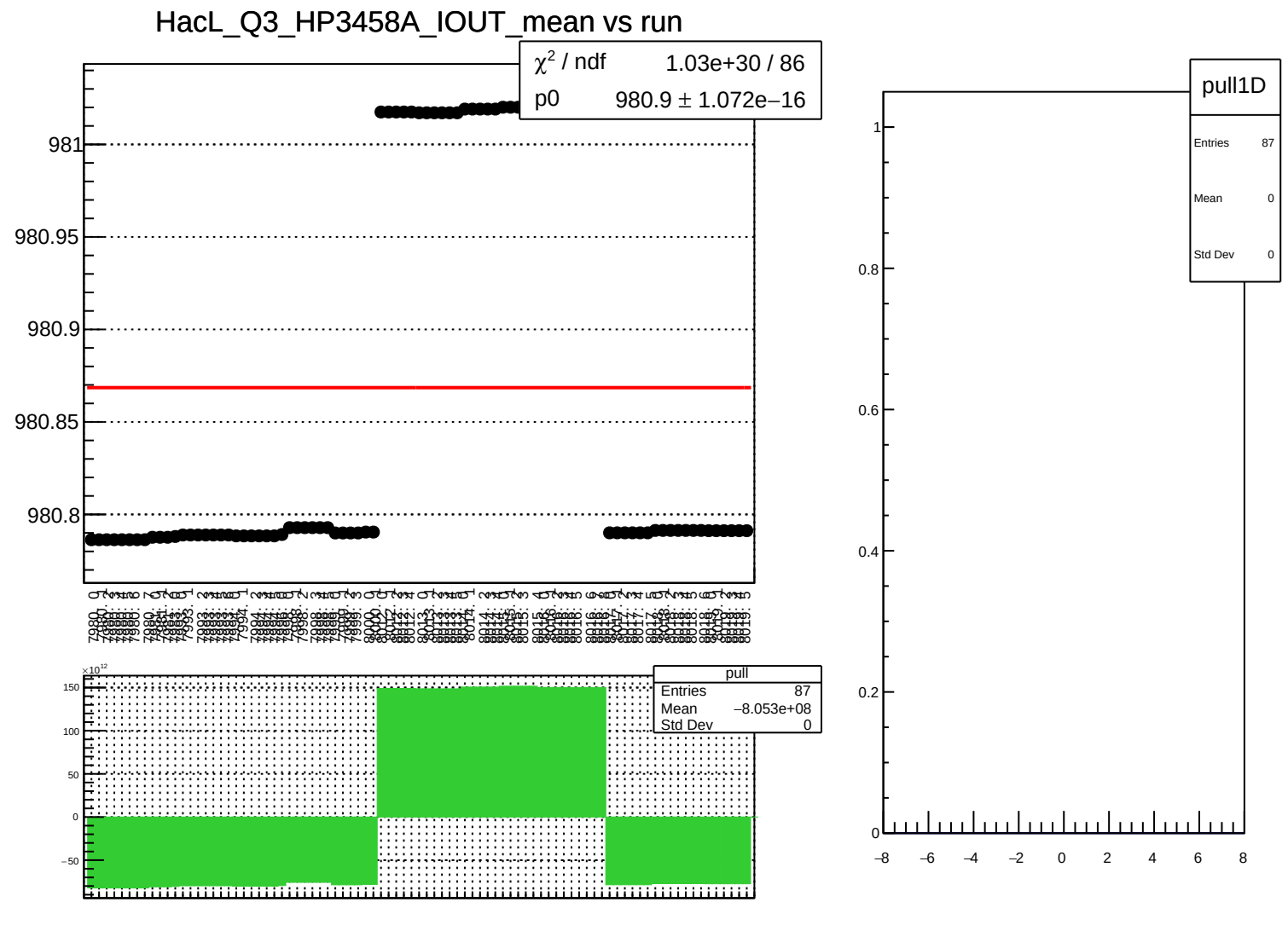

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

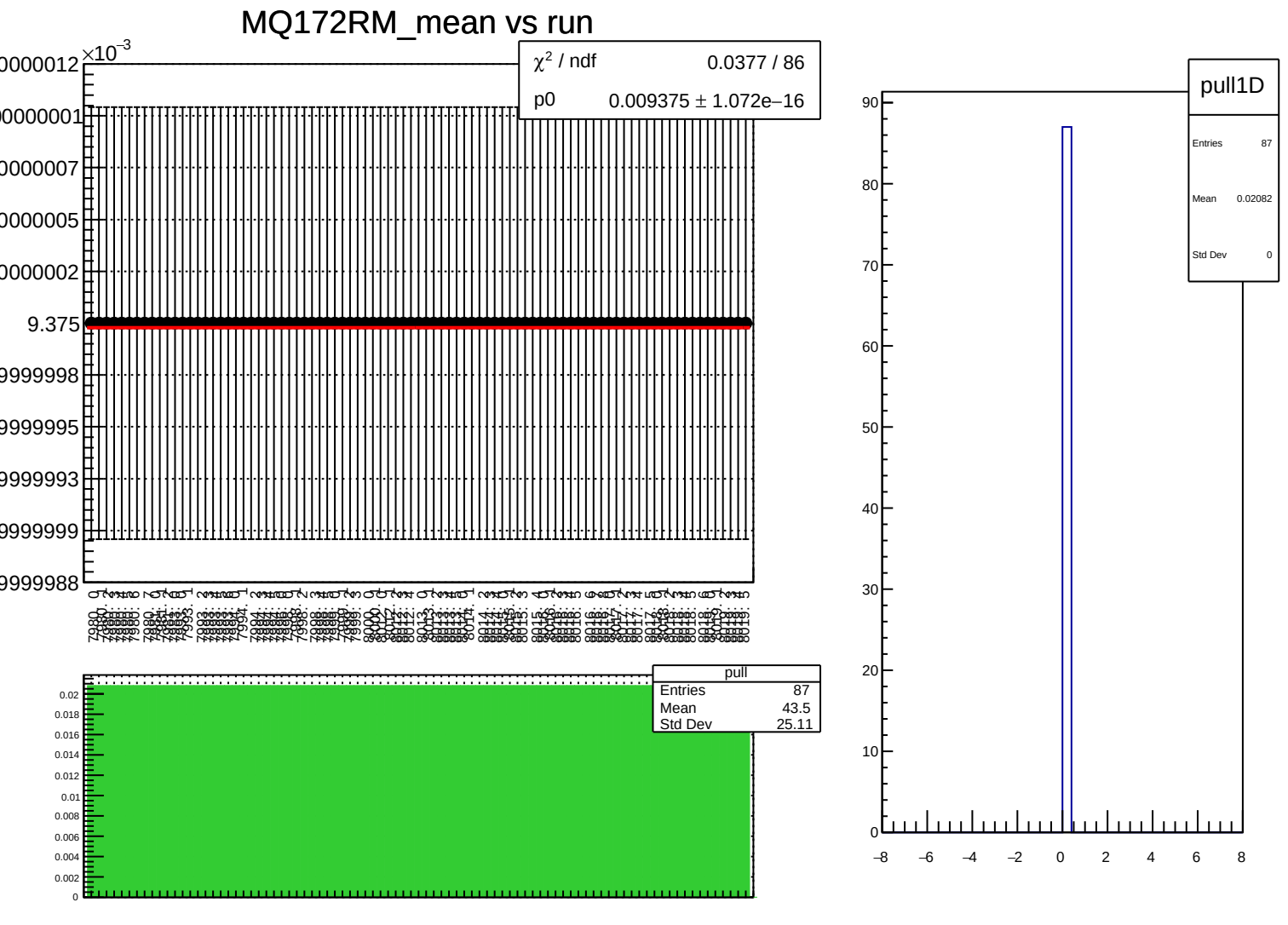

MQ171LM_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
9.375
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 0.02082
Std Dev 0

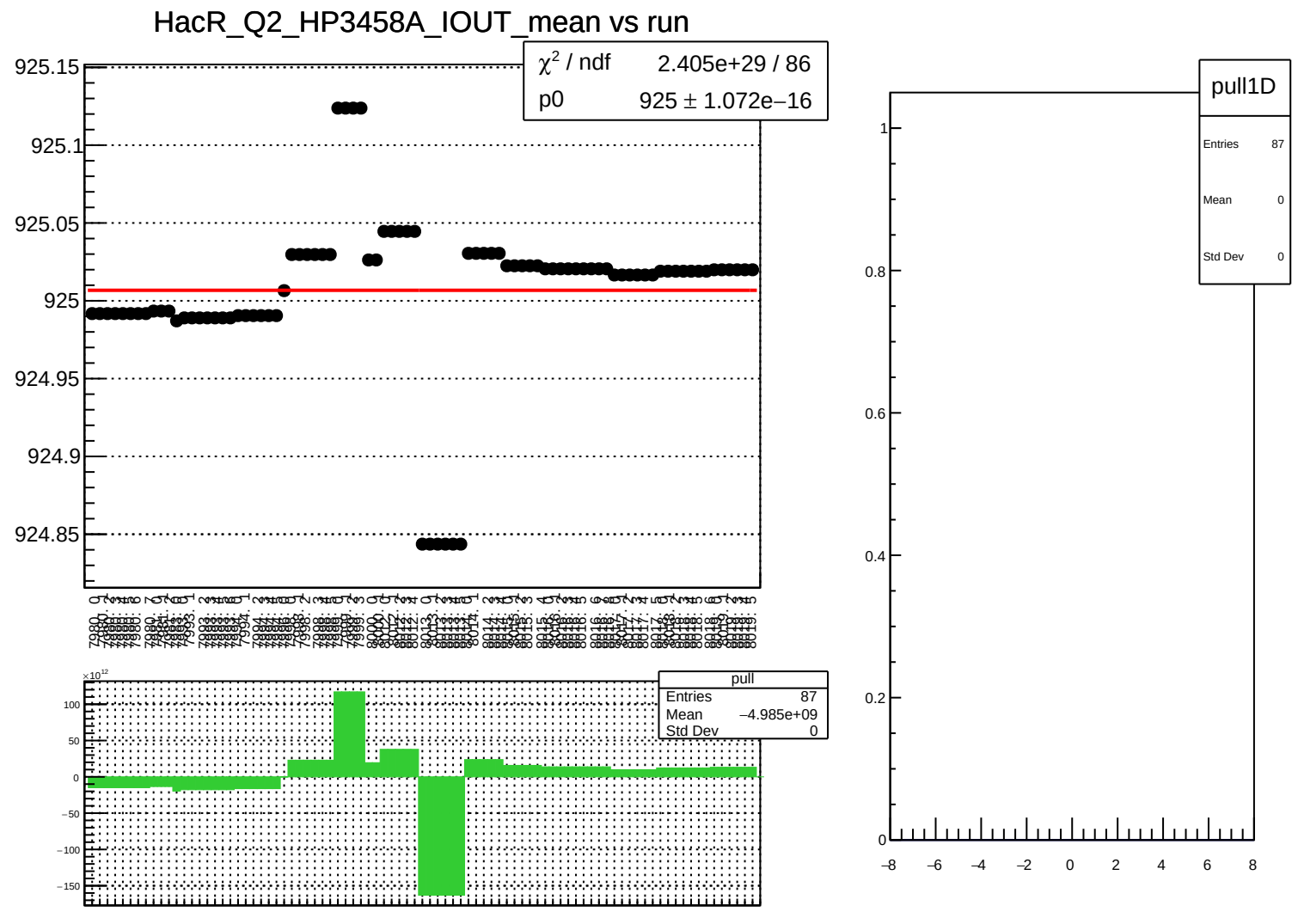

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.28e+28 / 86
p0 931.8 ± 1.072e−16
931.82
931.81
931.8
931.79
931.78
931.77
931.76
pull
Entries 87
Mean −6.893e+08
Std Dev 0
×10¹²
50
40
30
20
10
0
−10
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

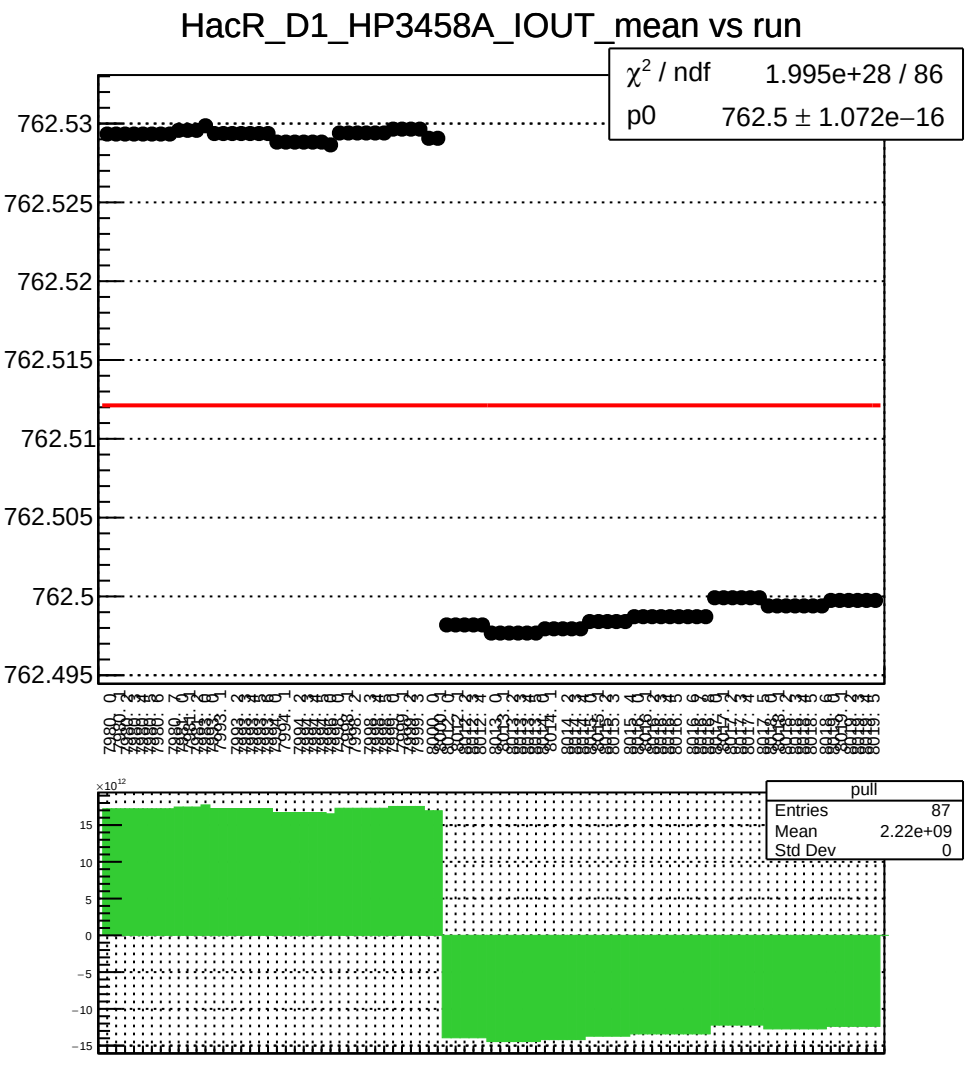

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.249e+27 / 86
p0 741 ± 1.072e−16
741.03
741.028
741.026
741.024
741.022
741.02
×10⁹
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 4.455e+08
Std Dev 0

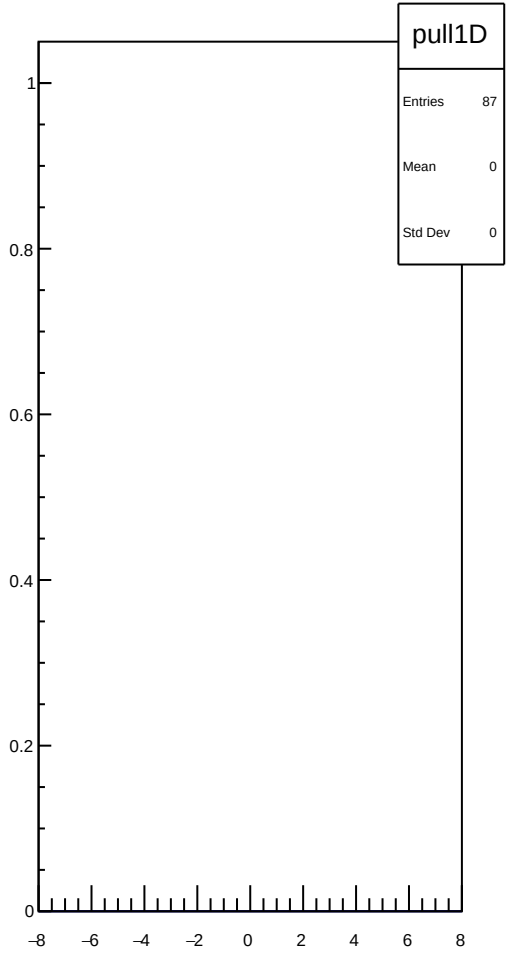

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

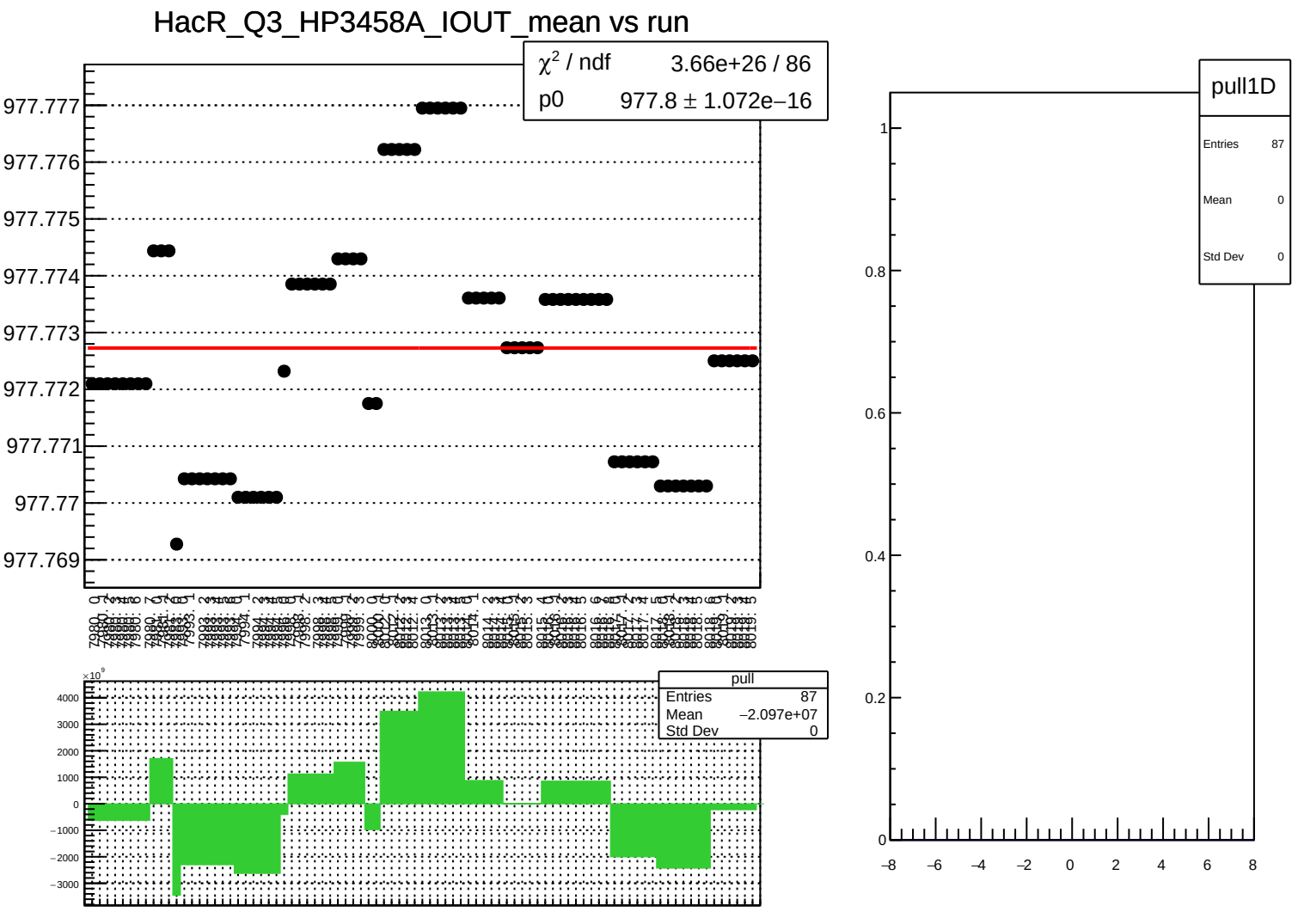

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.03e+30 / 86
p0 980.9 ± 1.072e−16
981
980.95
980.9
980.85
980.8
pull
Entries 87
Mean −8.053e+08
Std Dev 0
×10¹²
150
100
50
0
−50
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

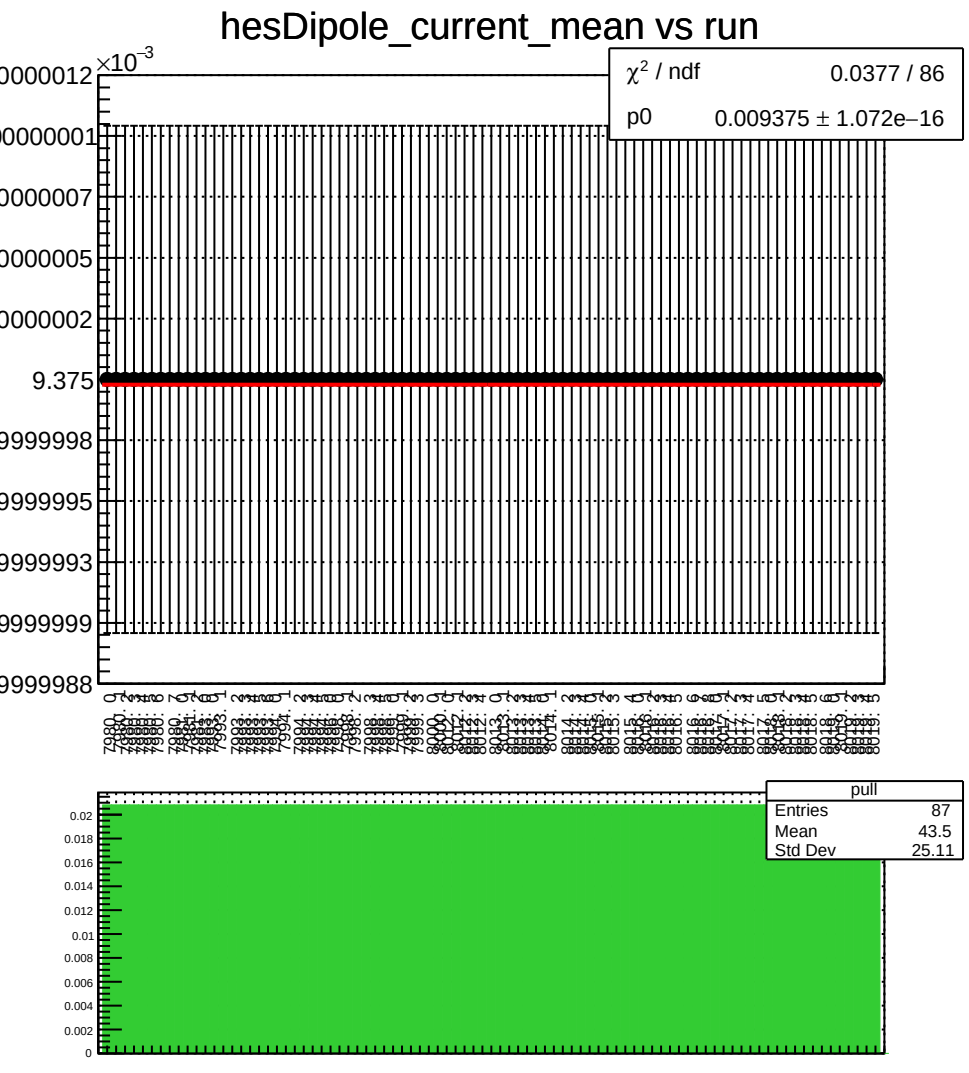

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 0.02082
Std Dev 0

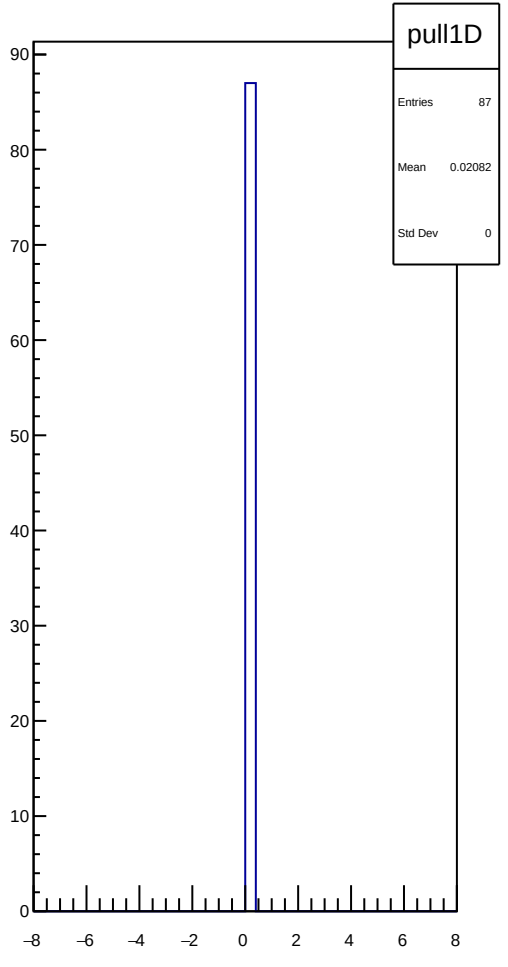

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.405e+29 / 86
p0 925 ± 1.072e−16
925.15
925.1
925.05
925
924.95
924.9
924.85
pull
Entries 87
Mean −4.985e+09
Std Dev 0
×10¹²
100
50
0
−50
−100
−150
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

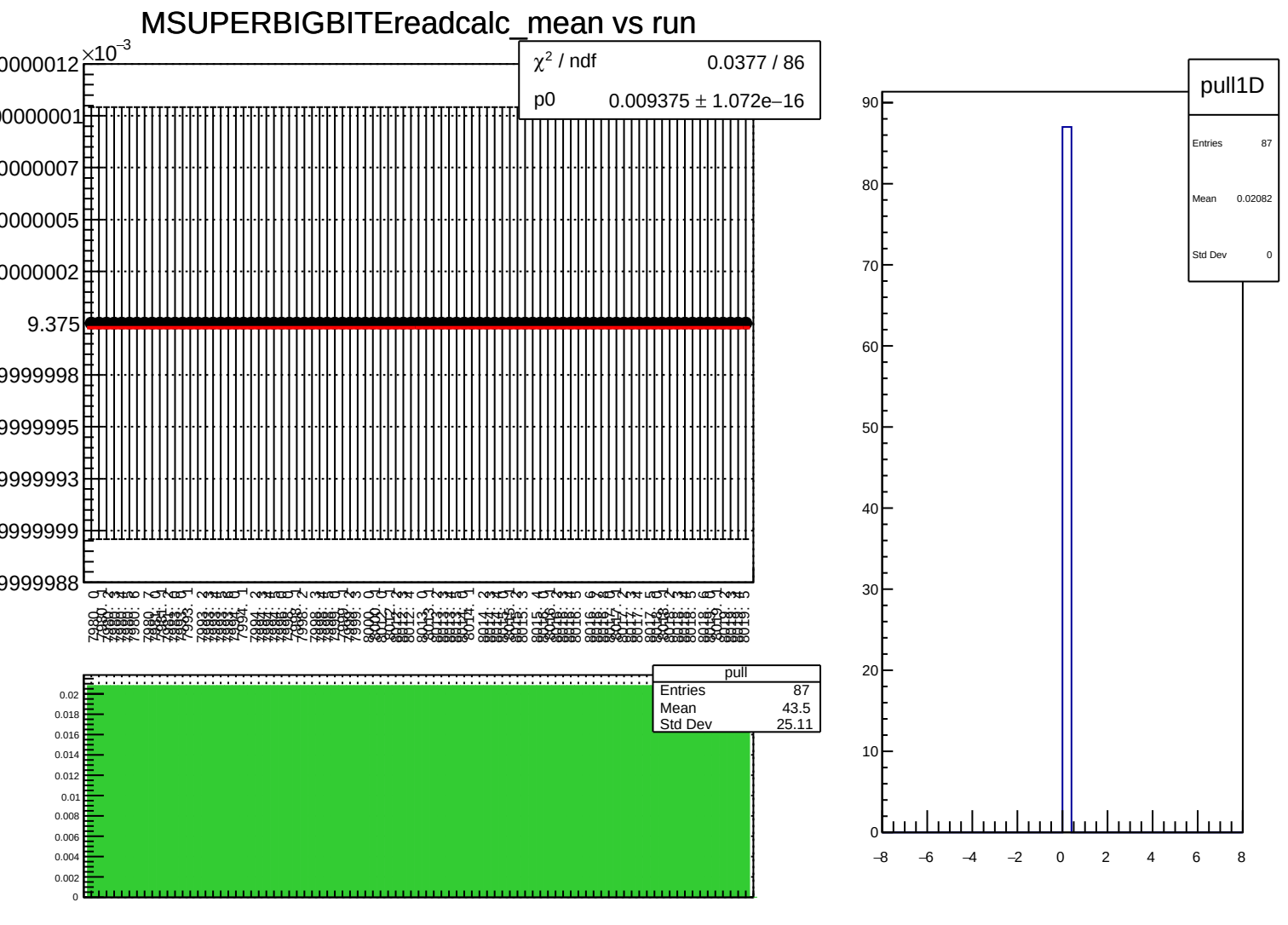

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.995e+28 / 86
p0 762.5 ± 1.072e−16
762.53
762.525
762.52
762.515
762.51
762.505
762.5
762.495
pull
Entries 87
Mean 2.22e+09
Std Dev 0
×10¹²
15
10
5
0
−5
−10
−15

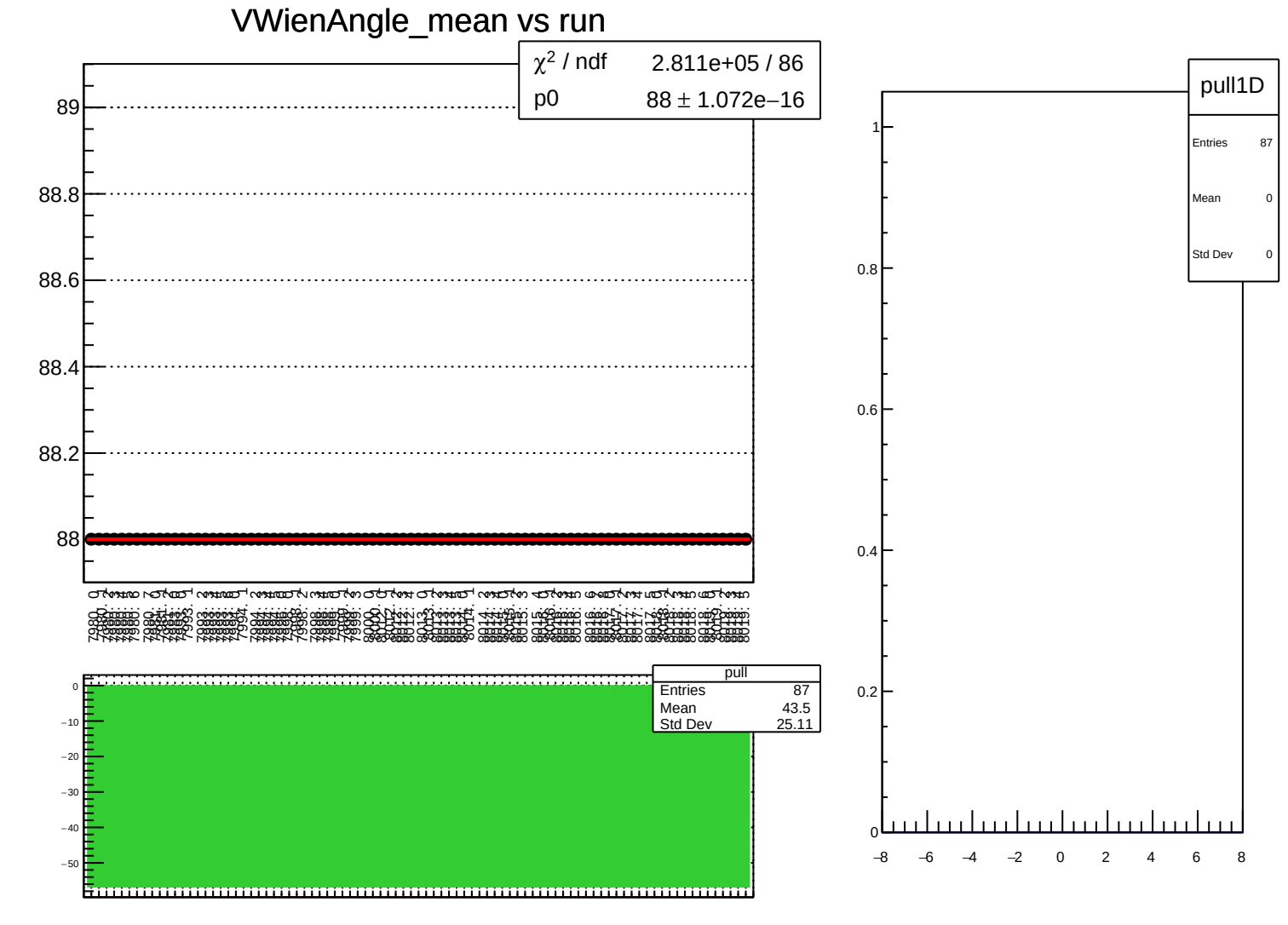

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

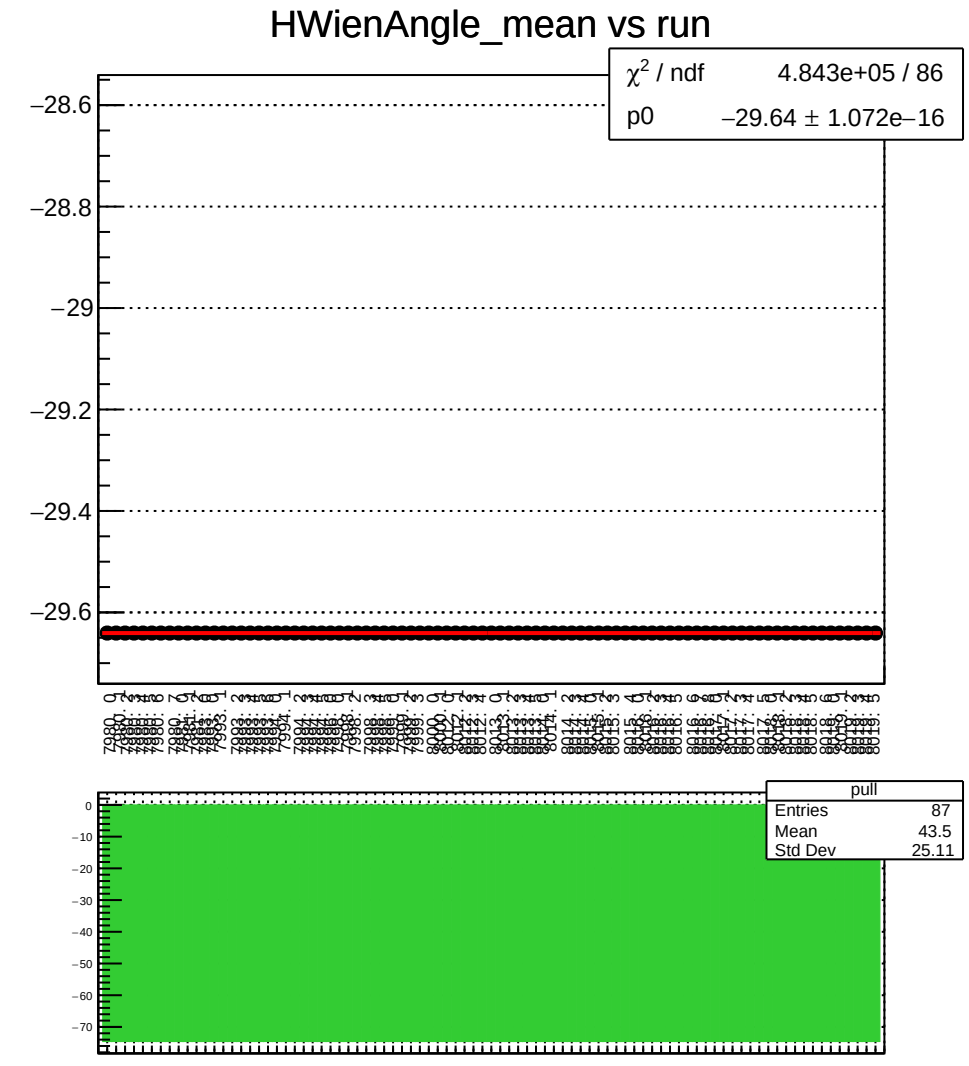

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.66e+26 / 86
p0 977.8 ± 1.072e−16
977.777
977.776
977.775
977.774
977.773
977.772
977.771
977.77
977.769
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −2.097e+07
Std Dev 0
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

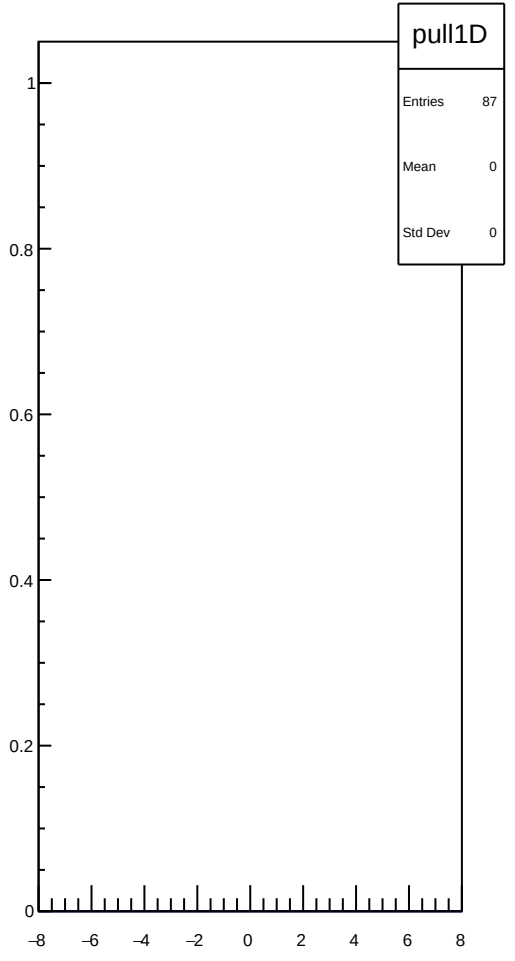

hesDipole_current_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
9.375
pull
Entries 87
Mean 43.5
Std Dev 25.11

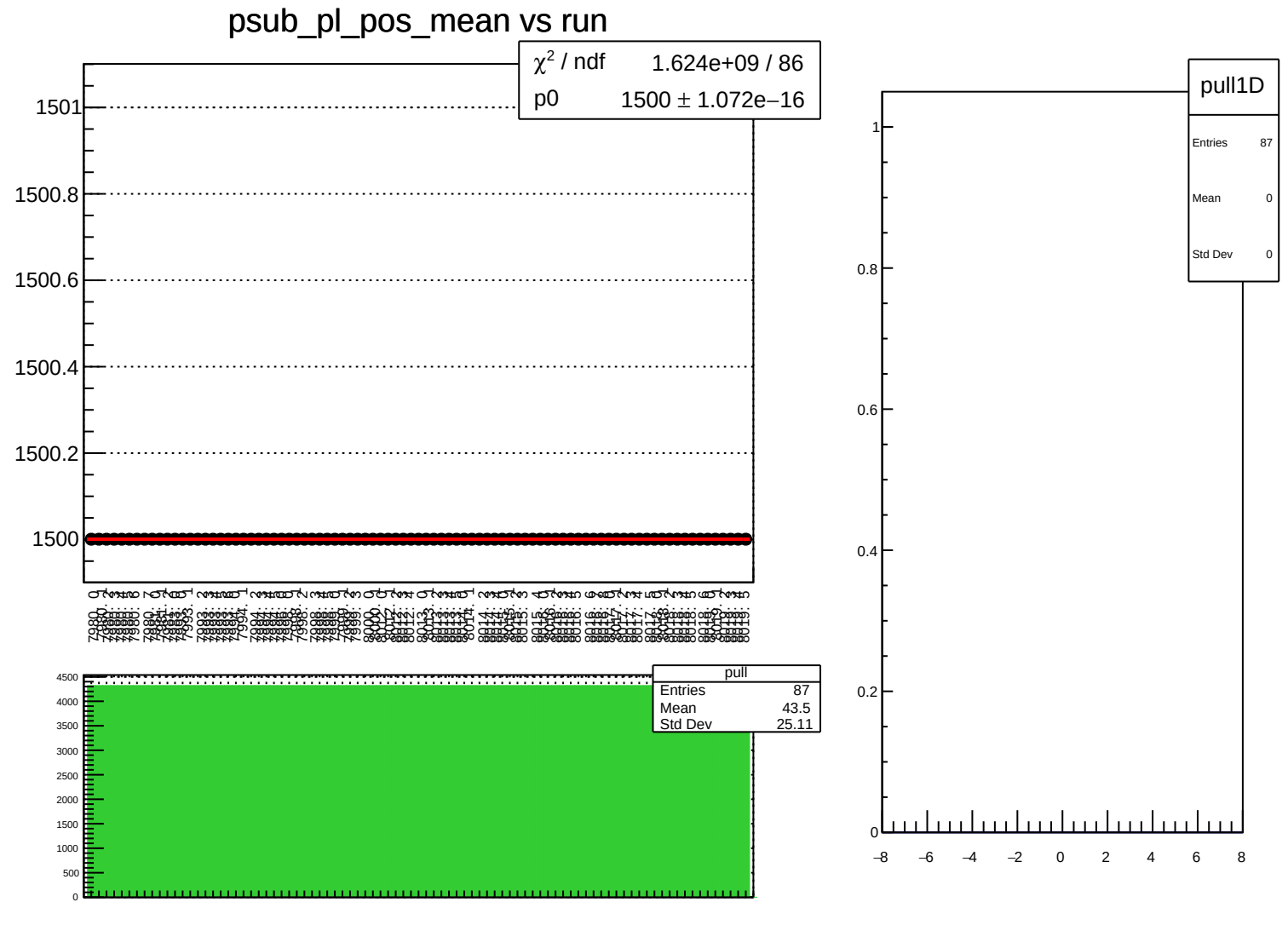

pull1D
Entries 87
Mean 0.02082
Std Dev 0

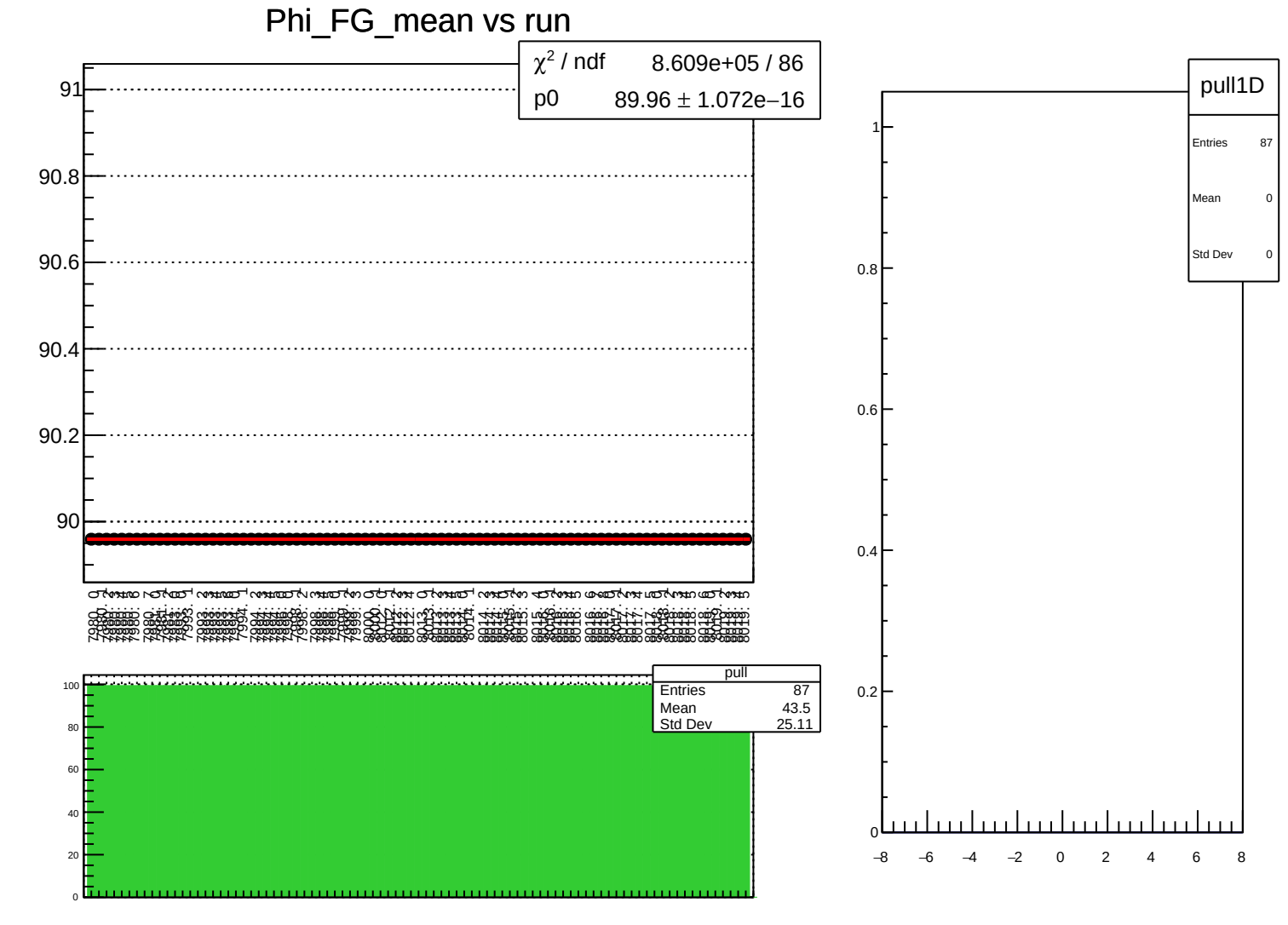

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 0.02082
Std Dev 0

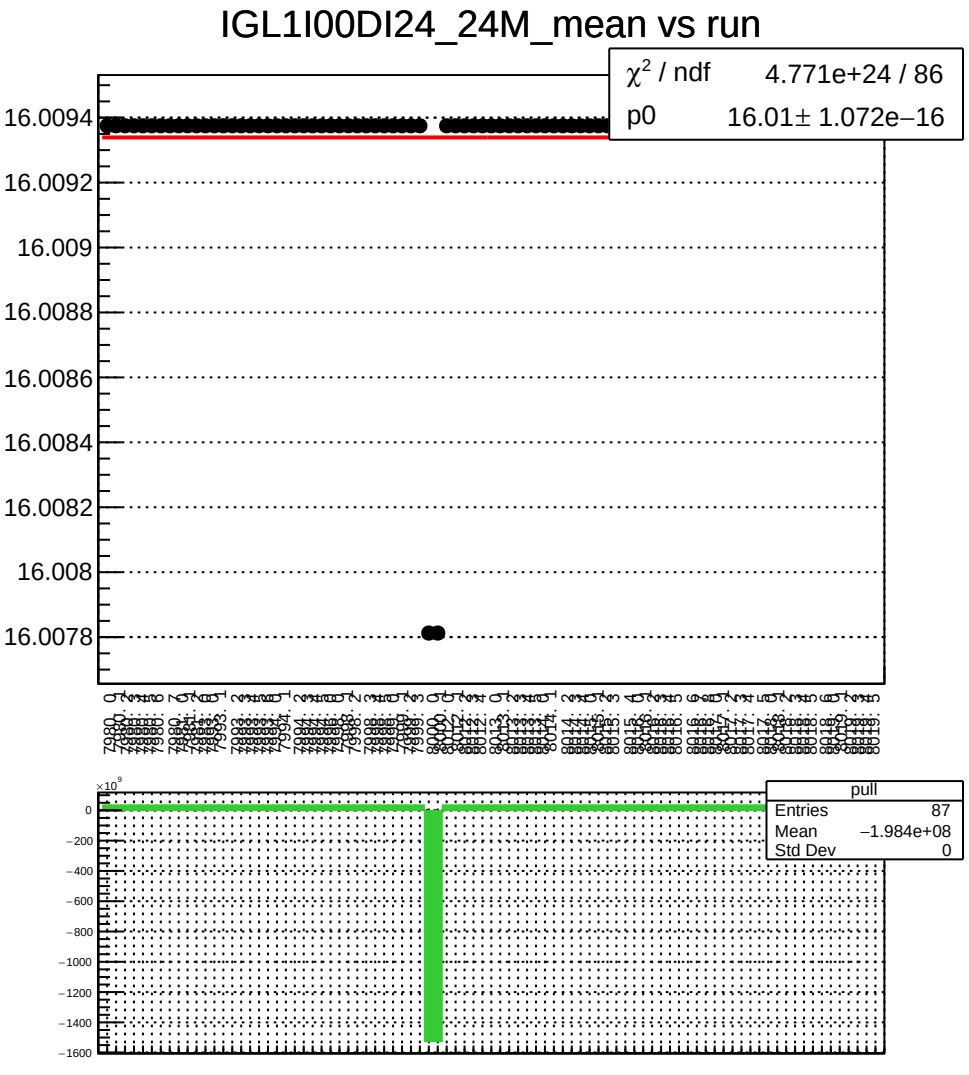

VWienAngle_mean vs run
χ² / ndf 2.811e+05 / 86
p0 88 ± 1.072e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 87
Mean 43.5
Std Dev 25.11
0
−10
−20
−30
−40
−50
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

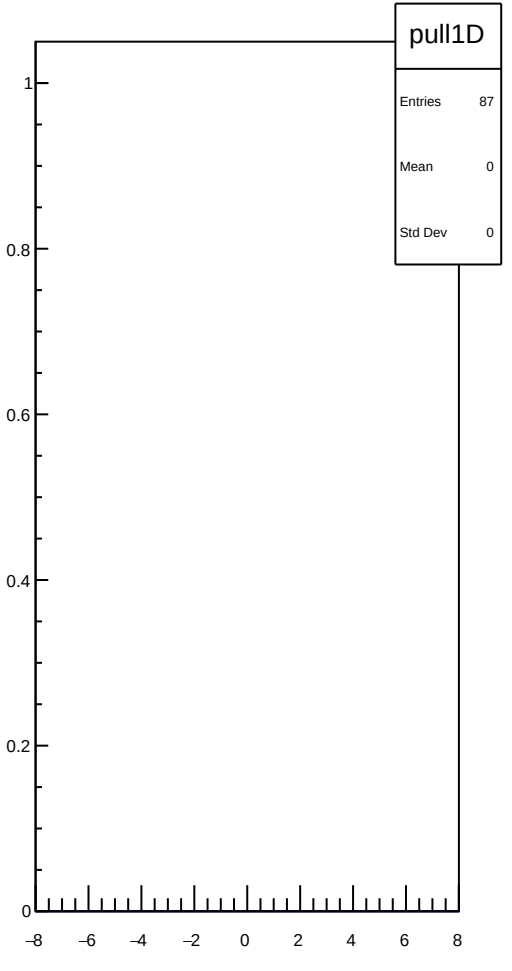

HWienAngle_mean vs run
χ² / ndf 4.843e+05 / 86
p0 −29.64 ± 1.072e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 87
Mean 43.5
Std Dev 25.11
0
−10
−20
−30
−40
−50
−60
−70

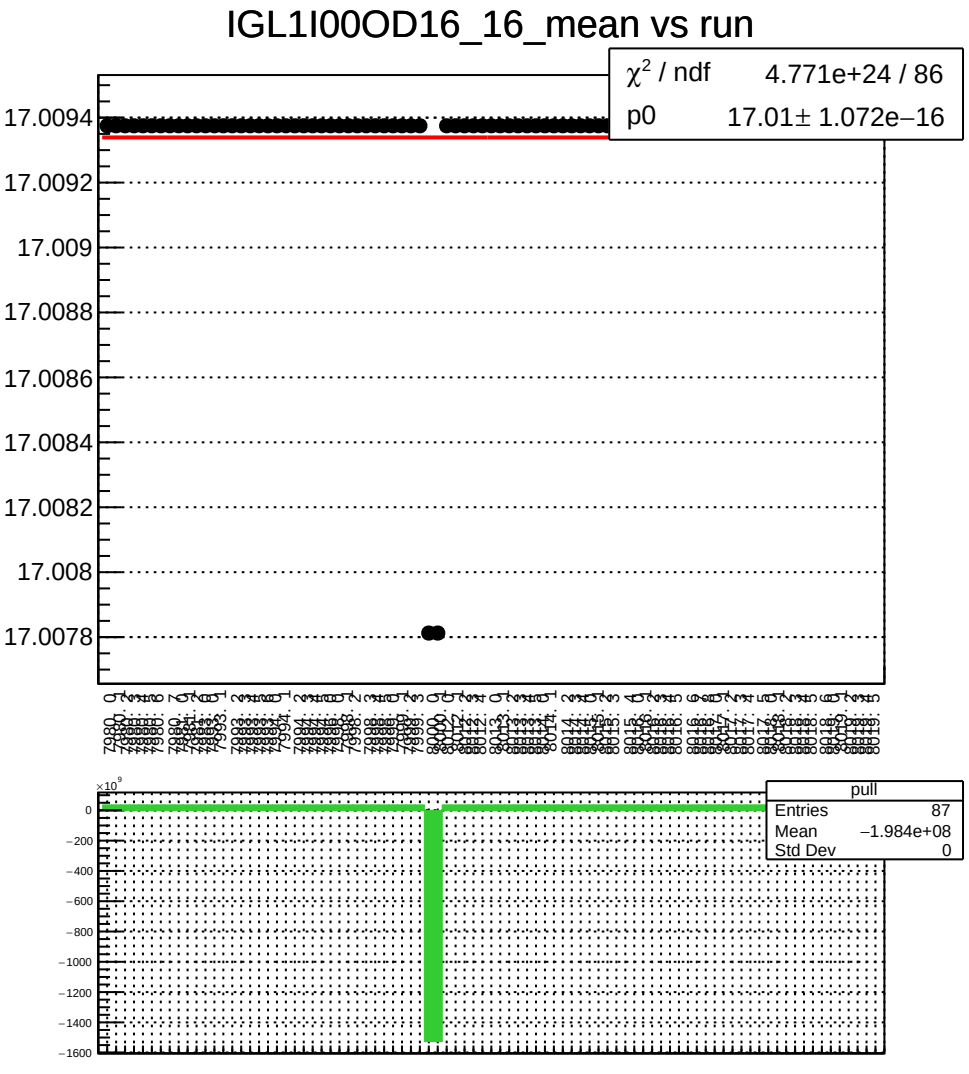

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

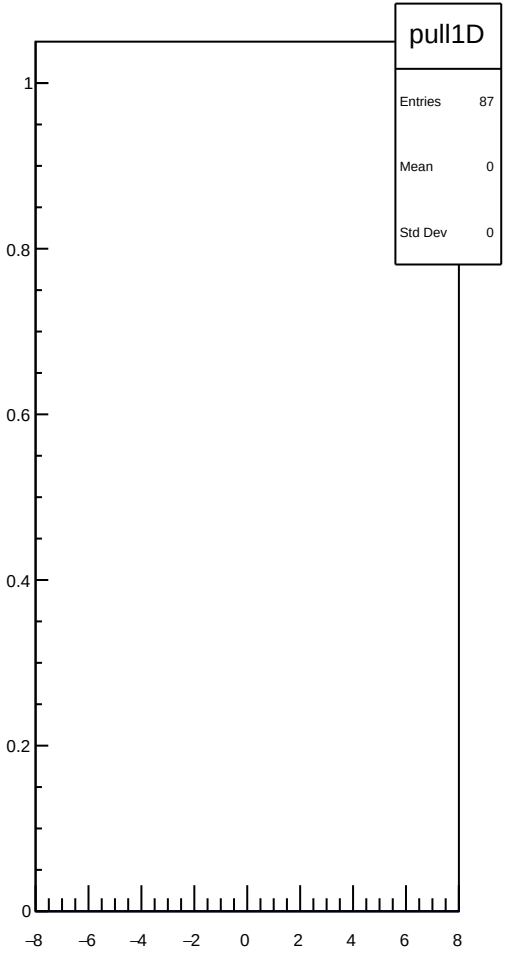

psub_pl_pos_mean vs run
χ² / ndf 1.624e+09 / 86
p0 1500 ± 1.072e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 87
Mean 43.5
Std Dev 25.11
4500
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

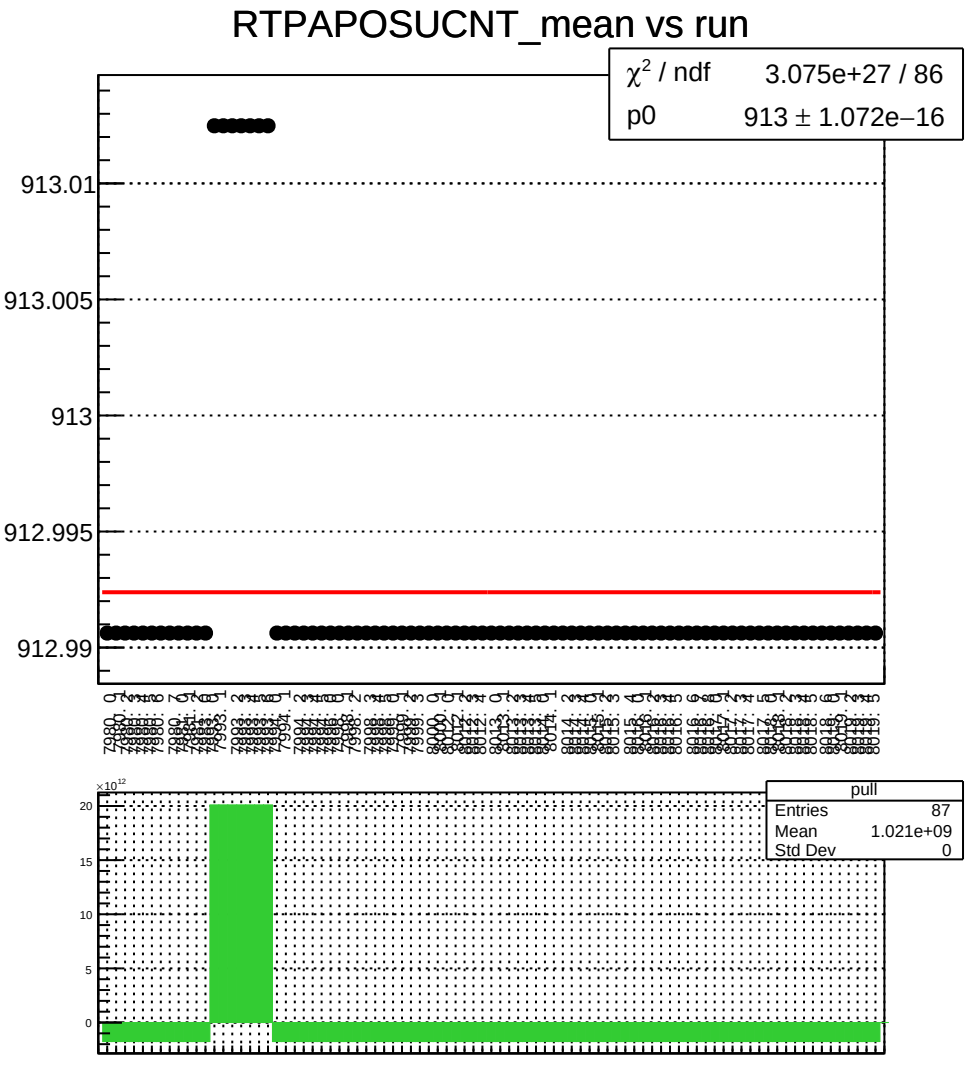

Phi_FG_mean vs run
χ² / ndf 8.609e+05 / 86
p0 89.96 ± 1.072e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 87
Mean 43.5
Std Dev 25.11
100
80
60
40
20
0
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

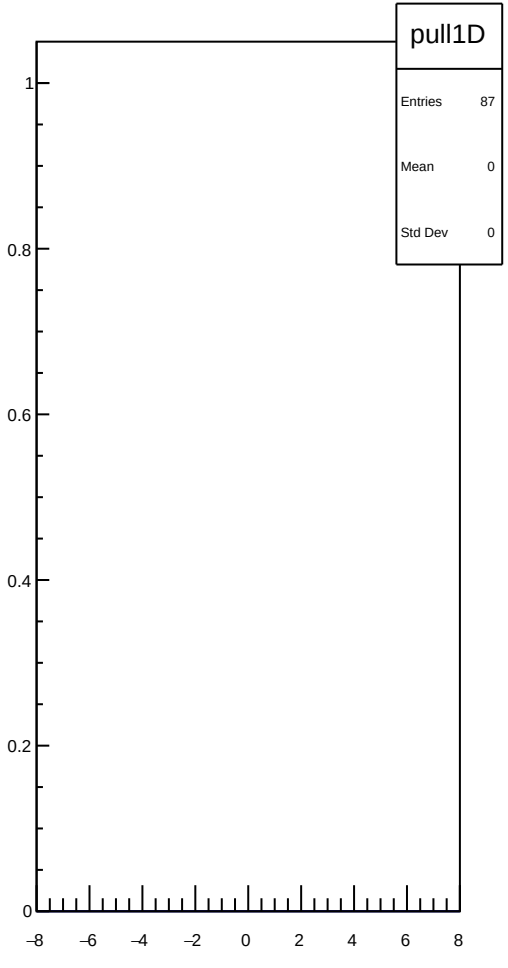

IGL1I00DI24_24M_mean vs run
χ² / ndf 4.771e+24 / 86
p0 16.01± 1.072e−16
16.0094
16.0092
16.009
16.0088
16.0086
16.0084
16.0082
16.008
16.0078
pull
Entries 87
Mean −1.984e+08
Std Dev 0
×10⁹
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

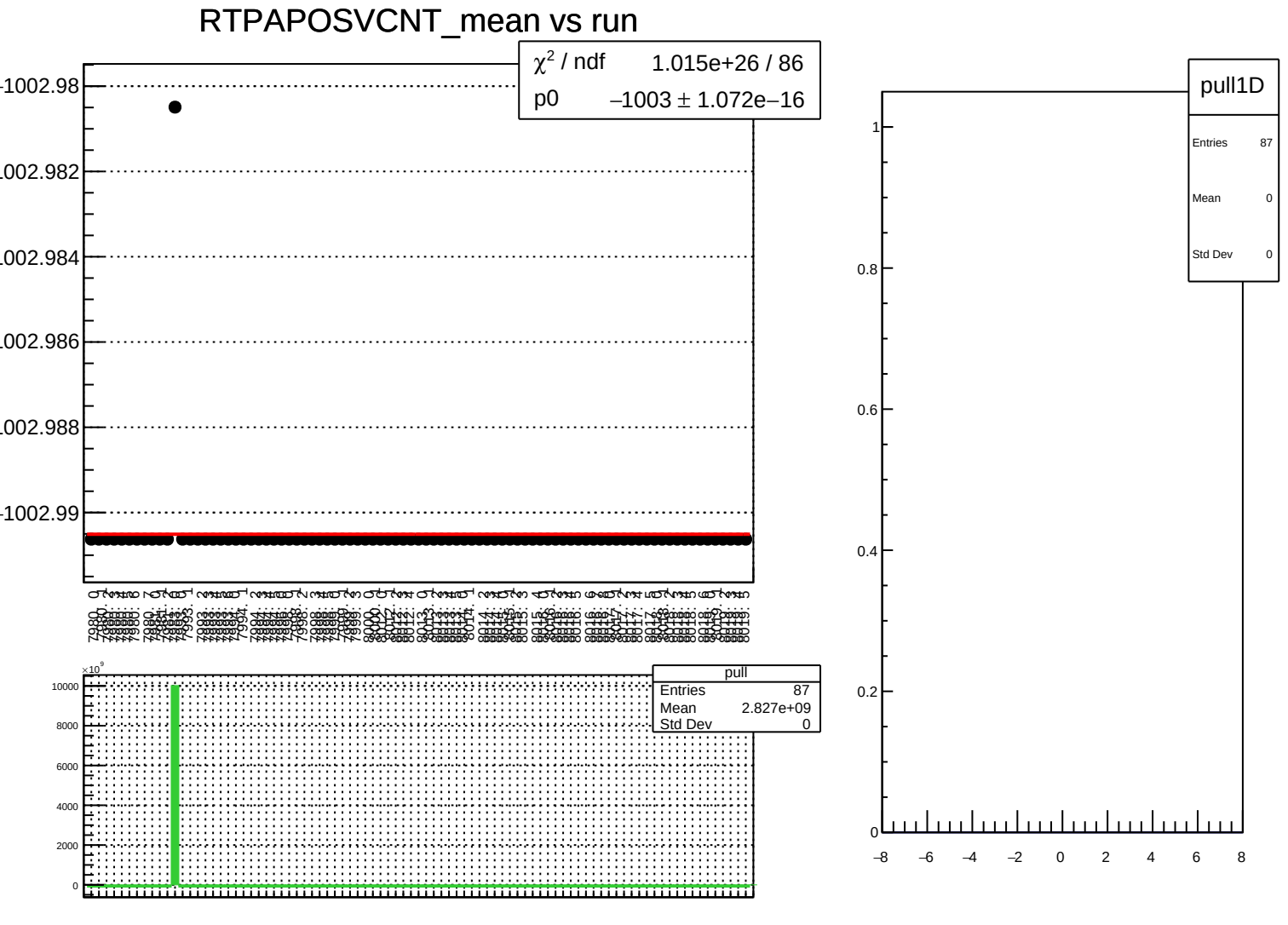

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

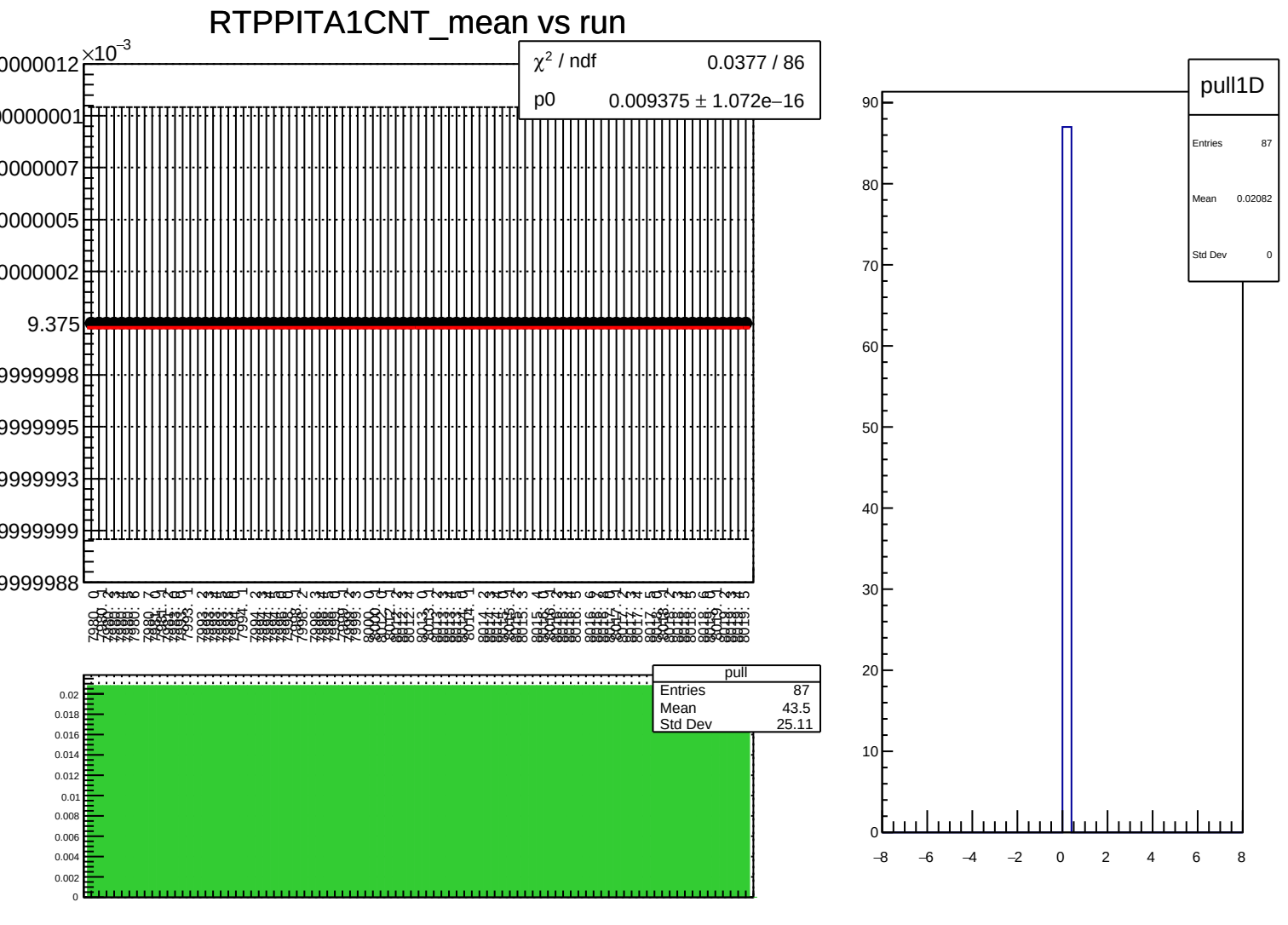

IGL1I00OD16_16_mean vs run
χ² / ndf 4.771e+24 / 86
p0 17.01± 1.072e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 87
Mean −1.984e+08
Std Dev 0
×10⁹
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

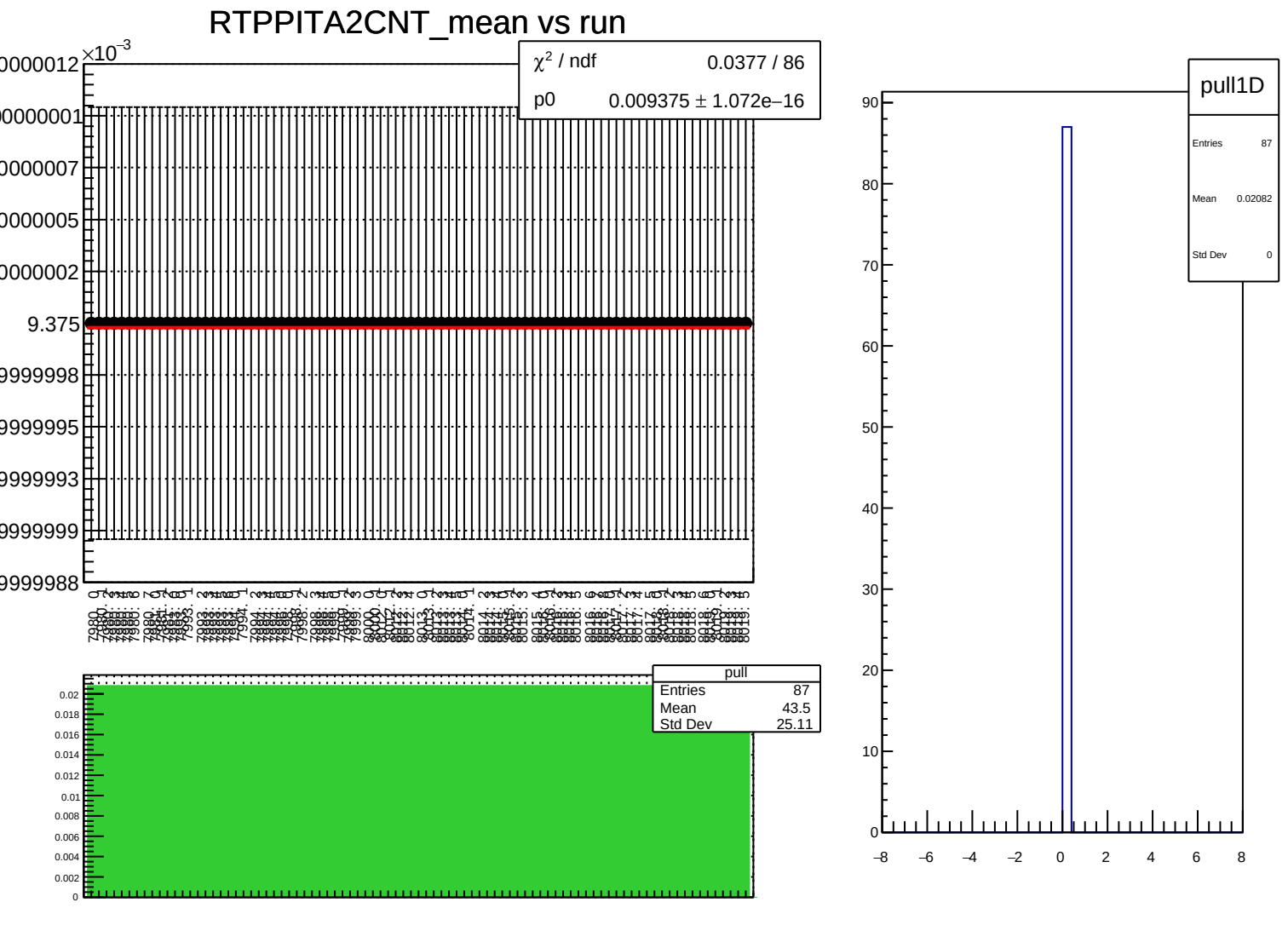

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 3.075e+27 / 86
p0 913 ± 1.072e−16
913.01
913.005
913
912.995
912.99
pull
Entries 87
Mean 1.021e+09
Std Dev 0
×10¹²
20
15
10
5
0


pull1D
Entries 87
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 1.015e+26 / 86
p0 −1003 ± 1.072e−16
−1002.98
−1002.982
−1002.984
−1002.986
−1002.988
−1002.99
pull
Entries 87
Mean 2.827e+09
Std Dev 0
×10⁹
10000
8000
6000
4000
2000
0
pull1D
Entries 87
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 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 0.02082
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 0.02082
Std Dev 0