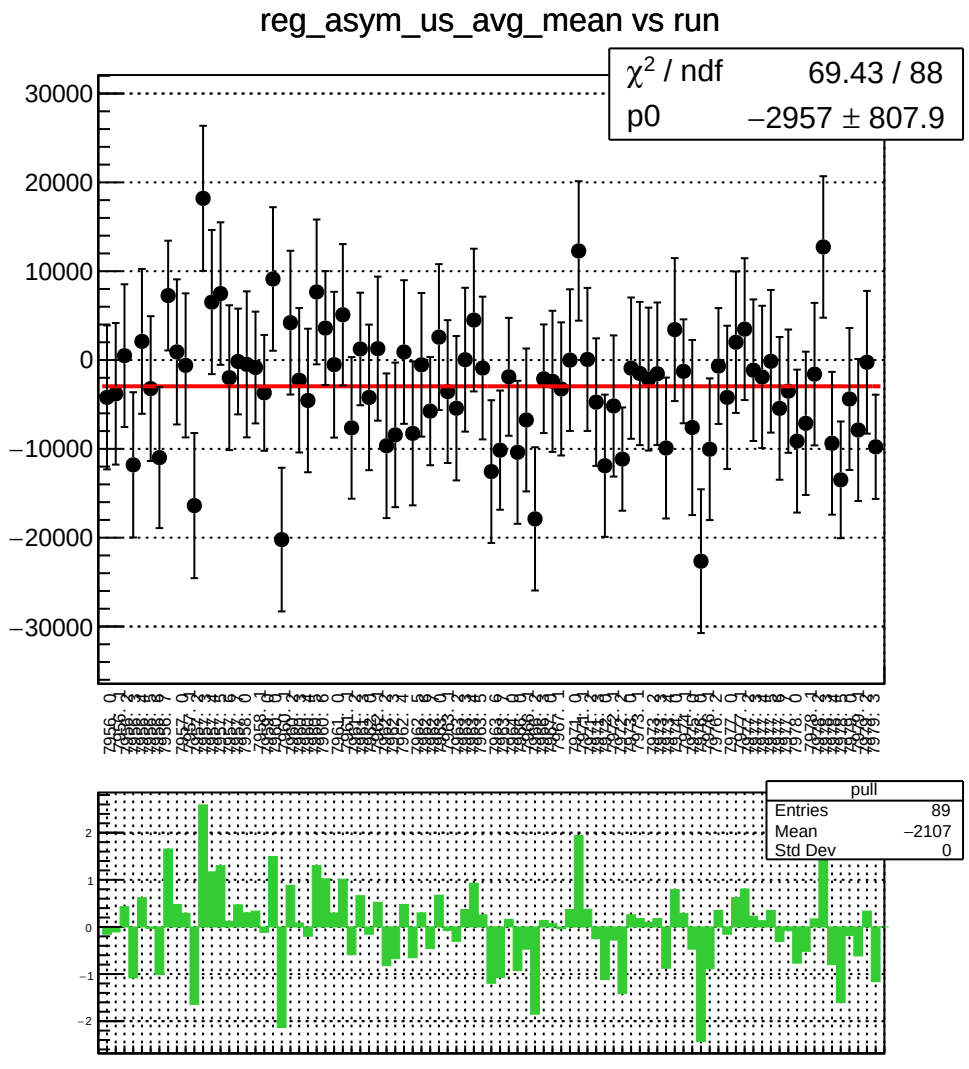
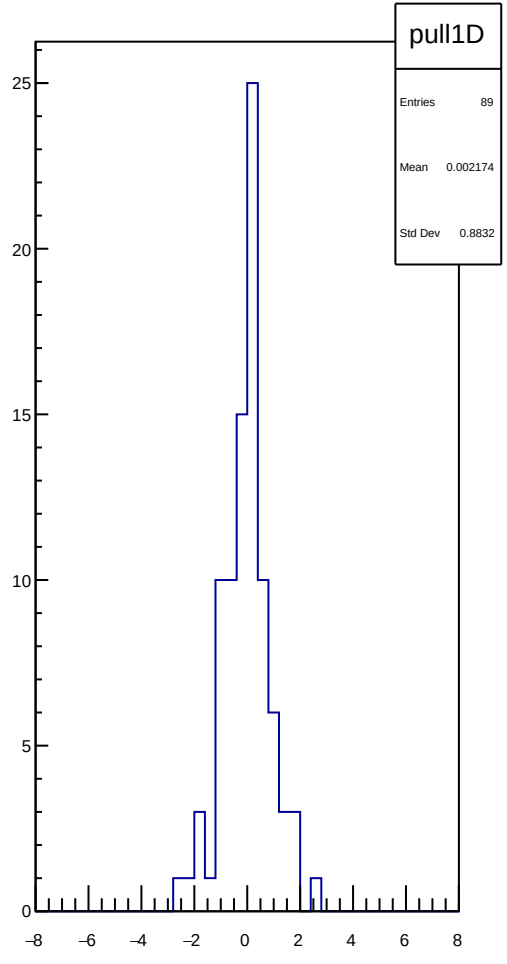
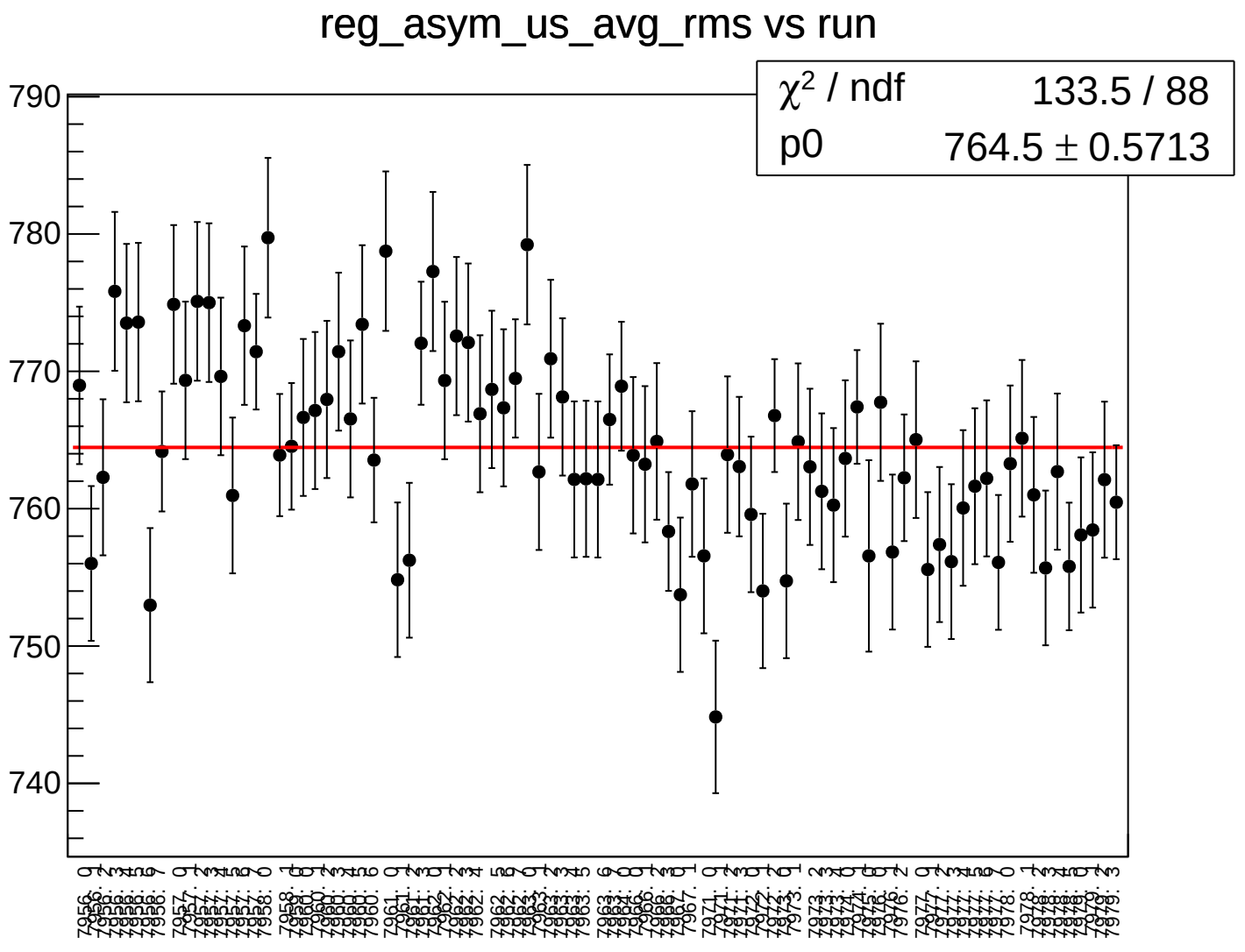
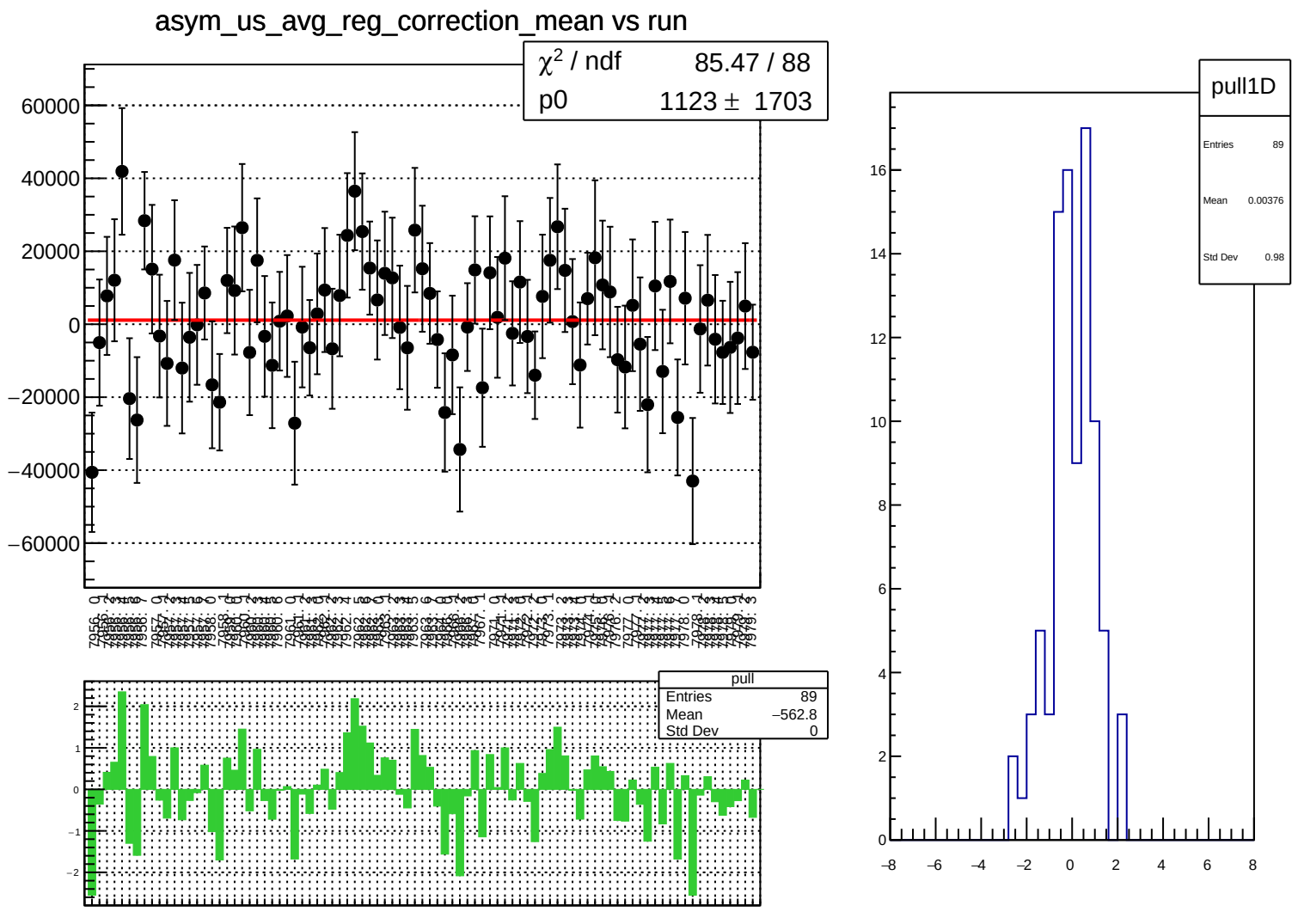
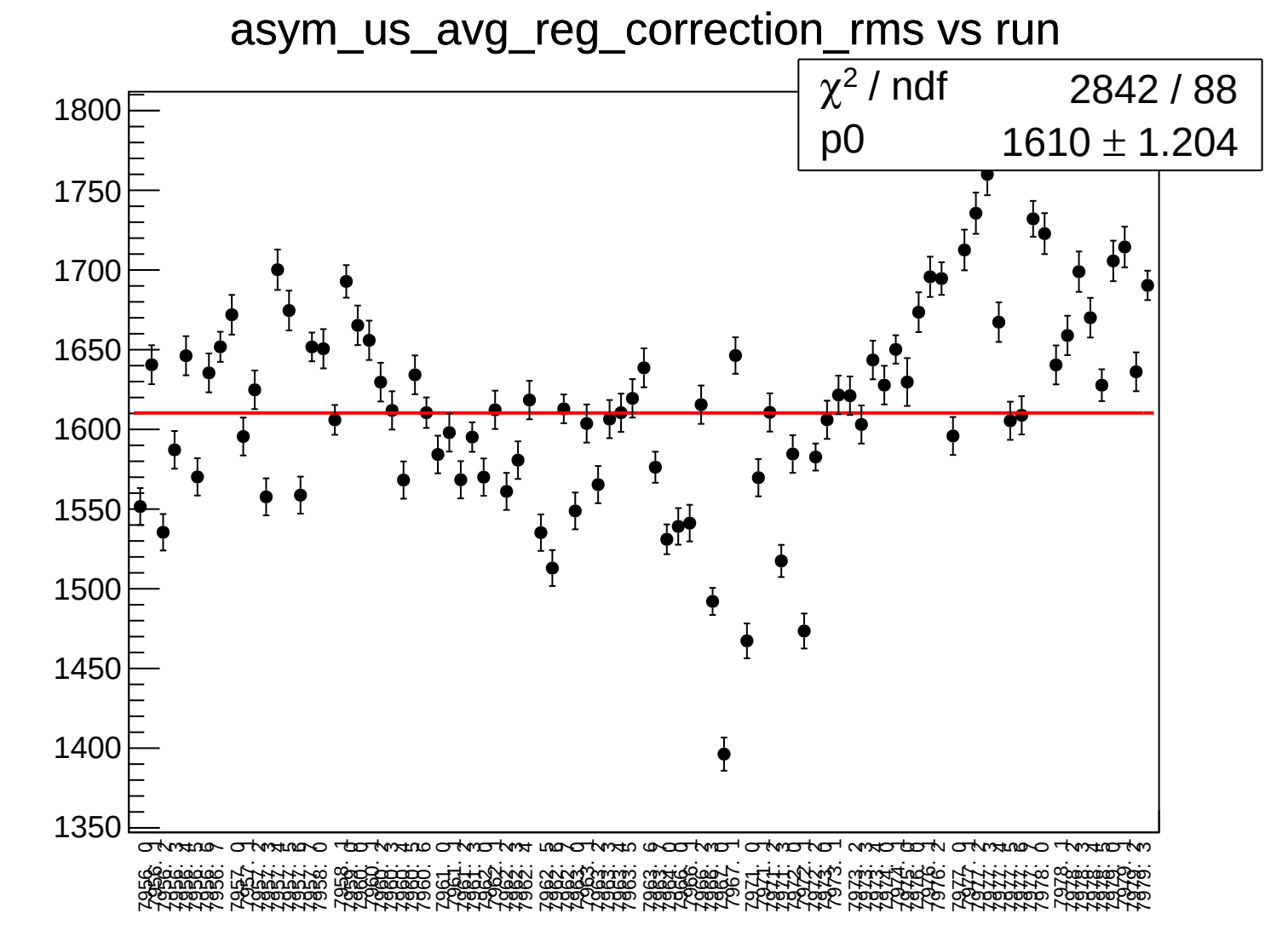
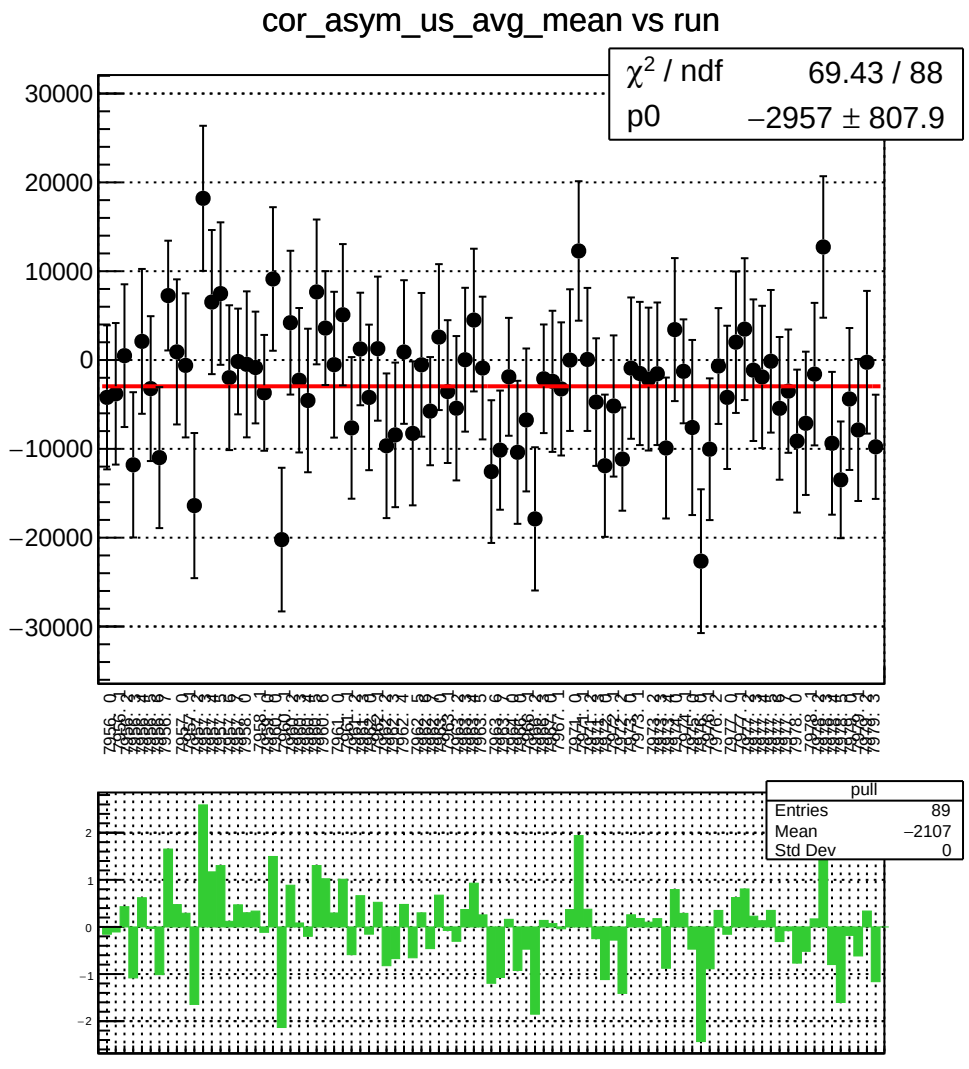

reg_asym_us_avg_mean vs run
χ² / ndf 69.43 / 88
p0 −2957 ± 807.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −2107
Std Dev 0
2
1
0
−1
−2

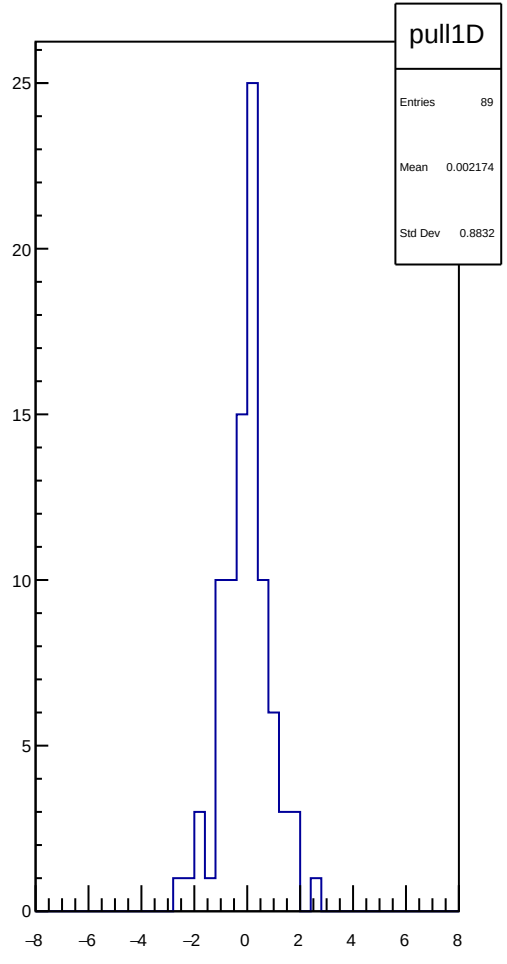

pull1D
Entries 89
Mean 0.002174
Std Dev 0.8832
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

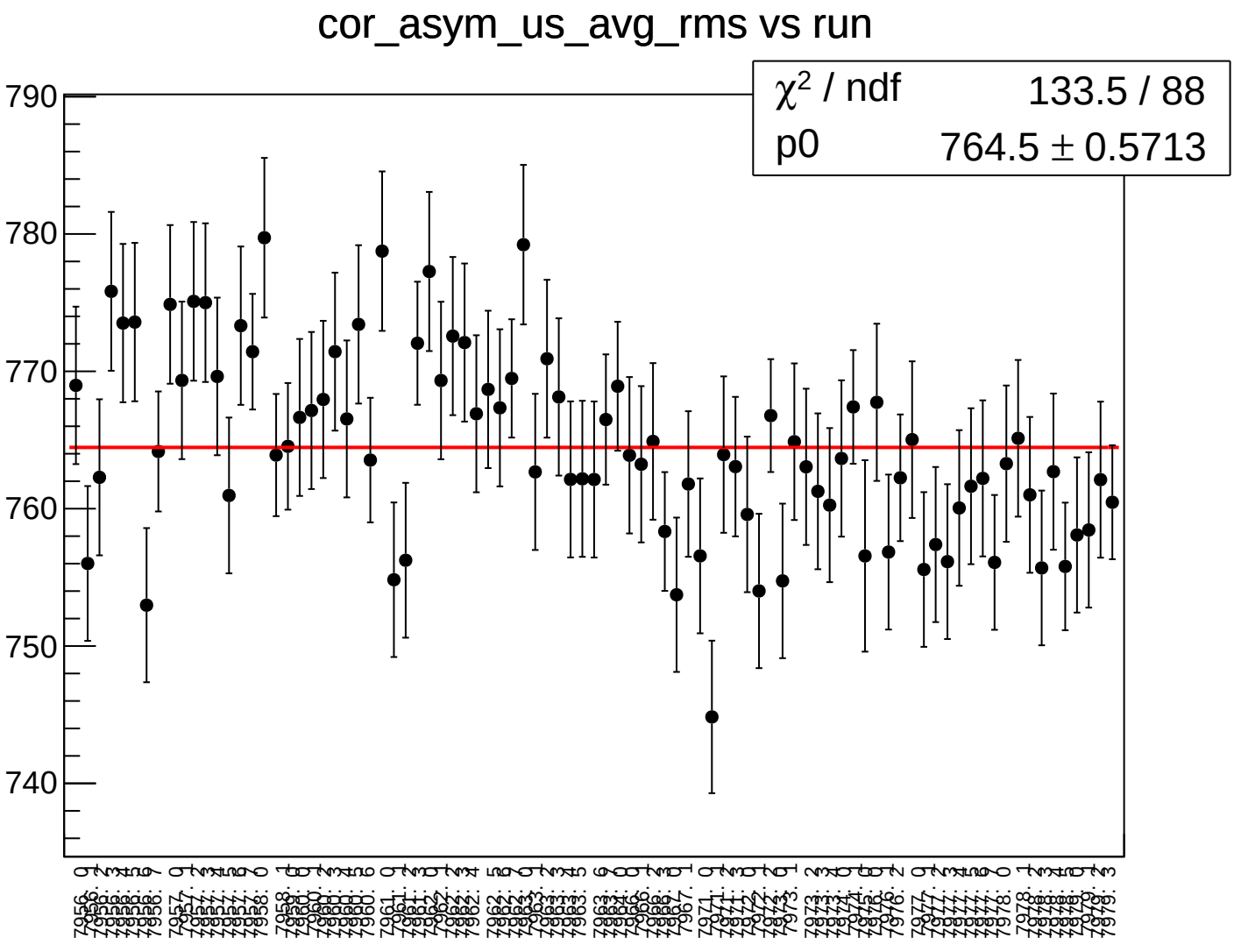

reg_asym_us_avg_rms vs run
$\chi^2$ / ndf 133.5 / 88
p0 764.5 ± 0.5713
790
780
770
760
750
740

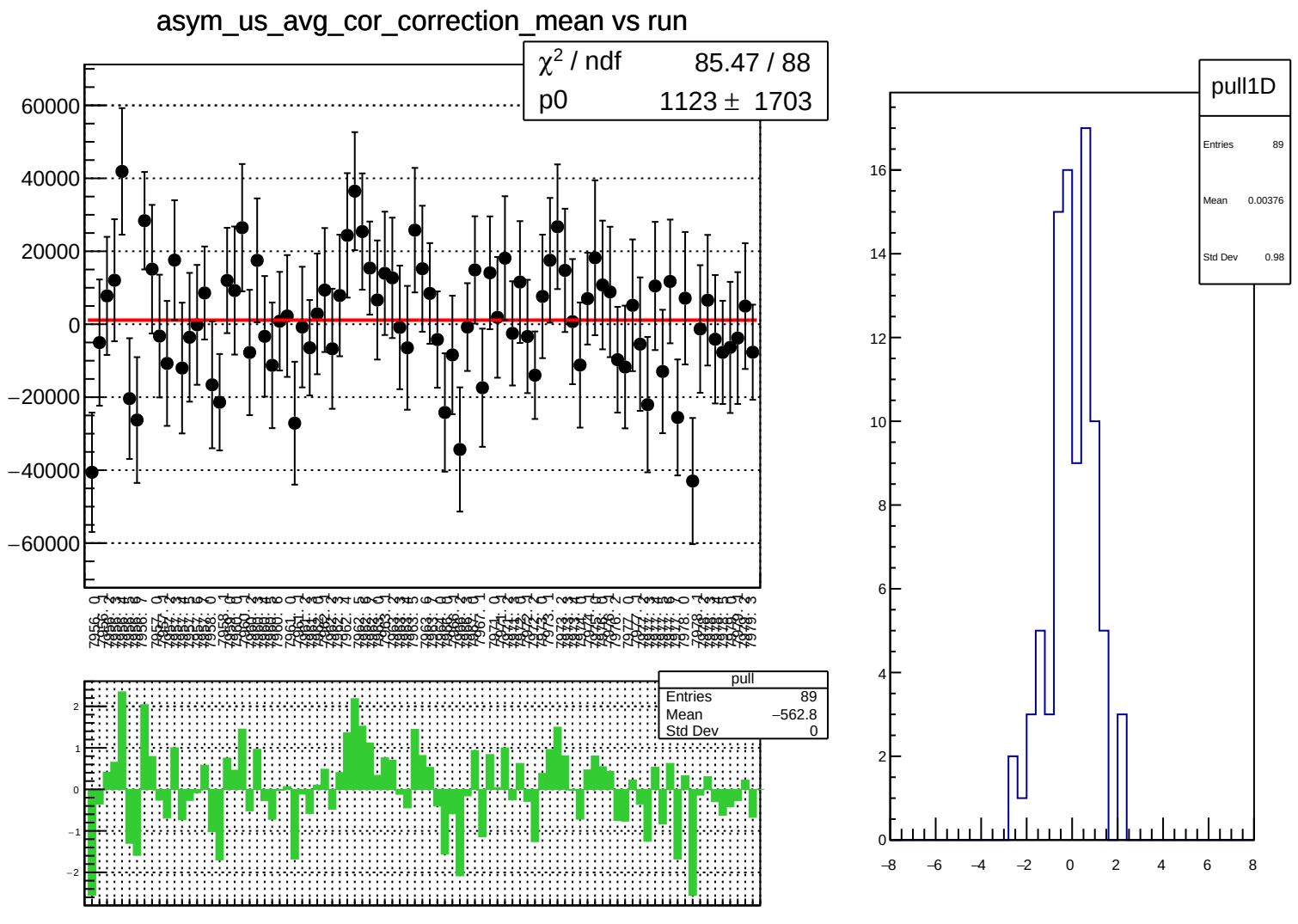

asym_us_avg_reg_correction_mean vs run
χ² / ndf 85.47 / 88
p0 1123 ± 1703
pull
Entries 89
Mean −562.8
Std Dev 0
pull1D
Entries 89
Mean 0.00376
Std Dev 0.98

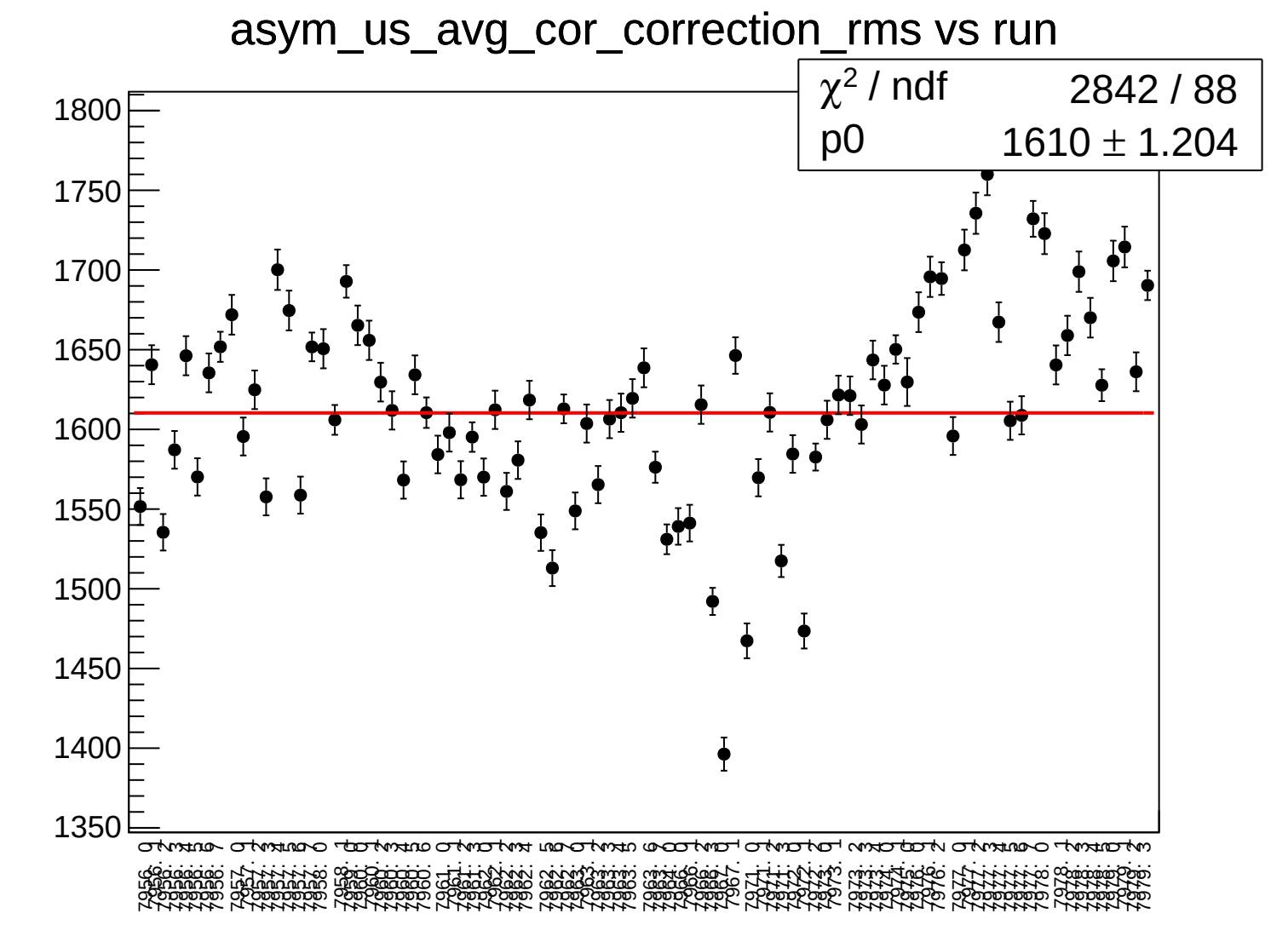

asym_us_avg_reg_correction_rms vs run
χ² / ndf 2842 / 88
p0 1610 ± 1.204
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

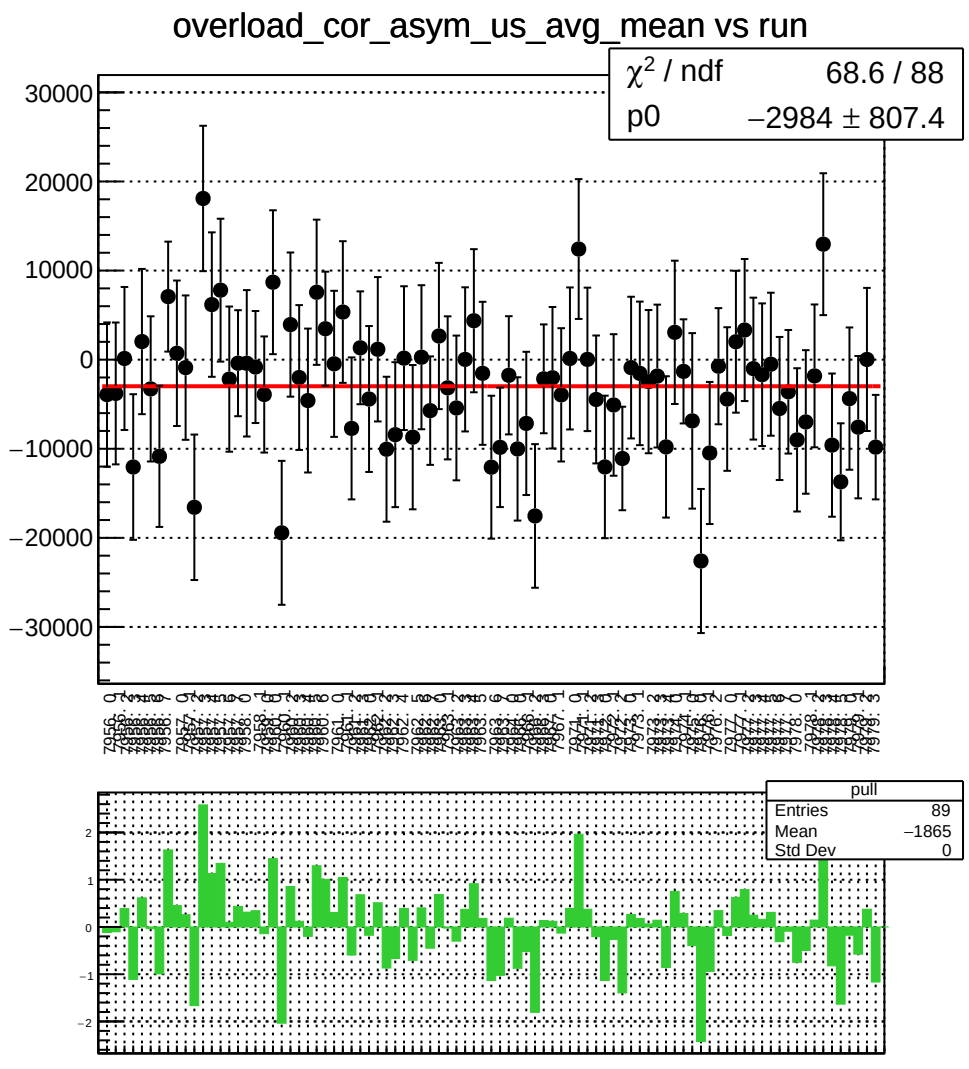

cor_asym_us_avg_mean vs run
χ² / ndf 69.43 / 88
p0 −2957 ± 807.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −2107
Std Dev 0
2
1
0
−1
−2

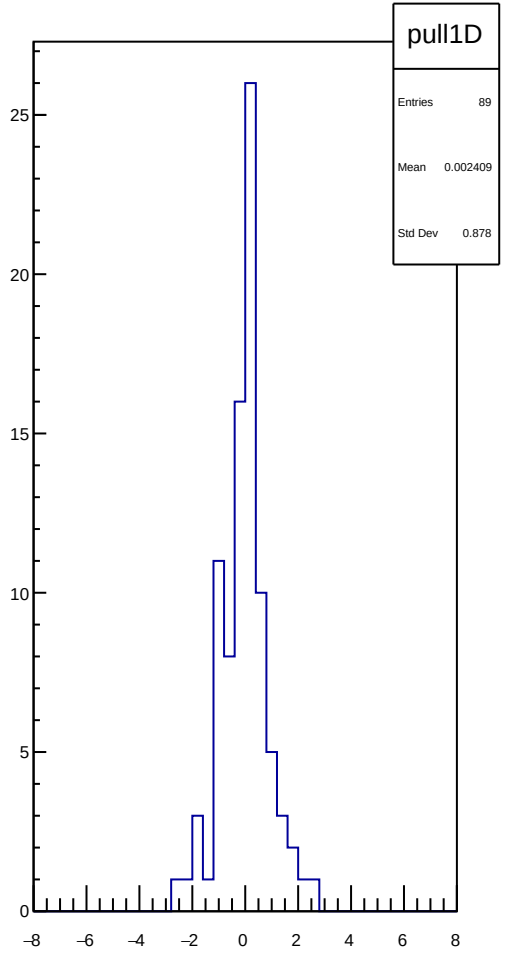

pull1D
Entries 89
Mean 0.002174
Std Dev 0.8832
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

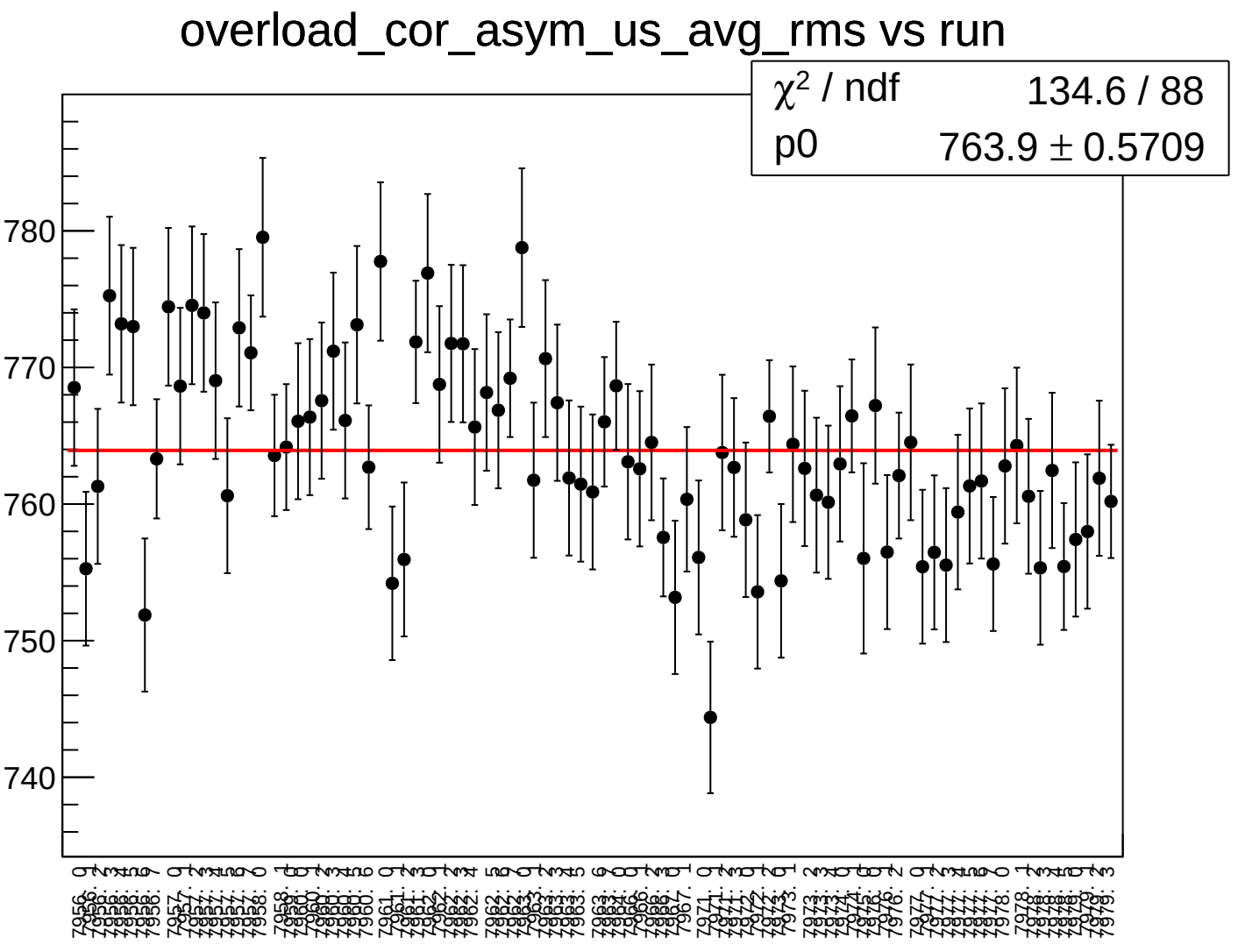

cor_asym_us_avg_rms vs run
$\chi^2$ / ndf 133.5 / 88
p0 764.5 ± 0.5713
790
780
770
760
750
740

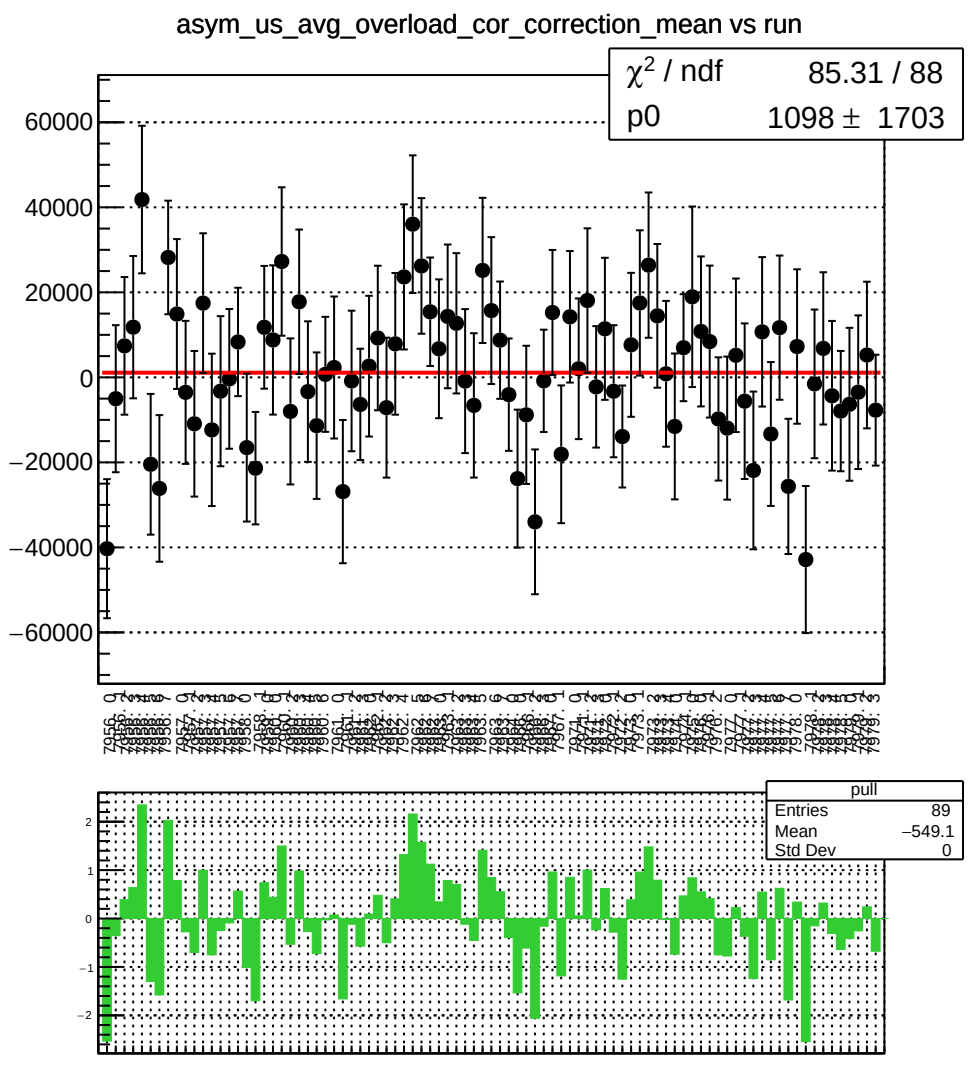

asym_us_avg_cor_correction_mean vs run
χ² / ndf 85.47 / 88
p0 1123 ± 1703
pull
Entries 89
Mean −562.8
Std Dev 0
pull1D
Entries 89
Mean 0.00376
Std Dev 0.98

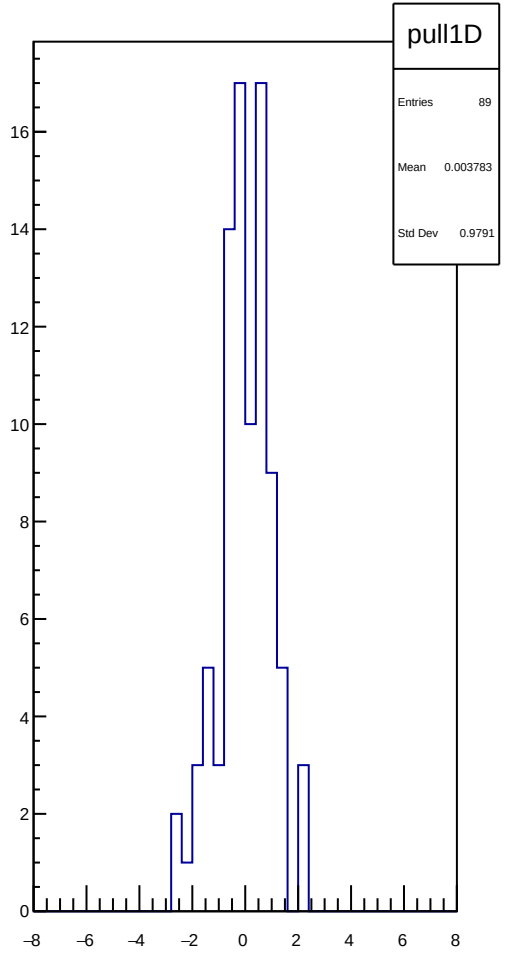

asym_us_avg_cor_correction_rms vs run
χ² / ndf 2842 / 88
p0 1610 ± 1.204
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350


overload_cor_asym_us_avg_mean vs run
χ² / ndf 68.6 / 88
p0 −2984 ± 807.4
pull
Entries 89
Mean −1865
Std Dev 0


pull1D
Entries 89
Mean 0.002409
Std Dev 0.878


overload_cor_asym_us_avg_rms vs run
χ² / ndf 134.6 / 88
p0 763.9 ± 0.5709
780
770
760
750
740


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 85.31 / 88
p0 1098 ± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −549.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.003783
Std Dev 0.9791
16
14
12
10
8
6
4
2
0
−8
−6
−4
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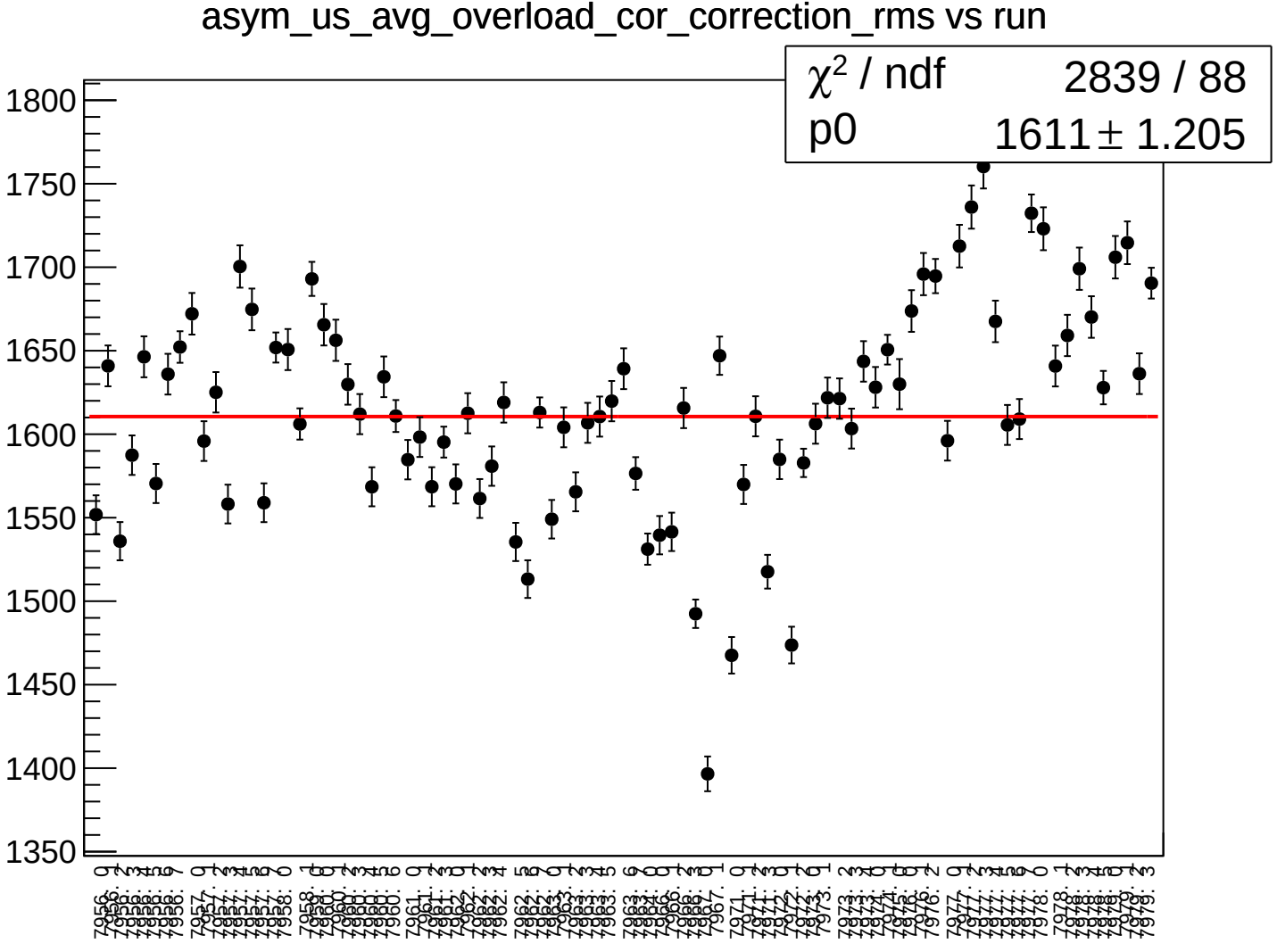
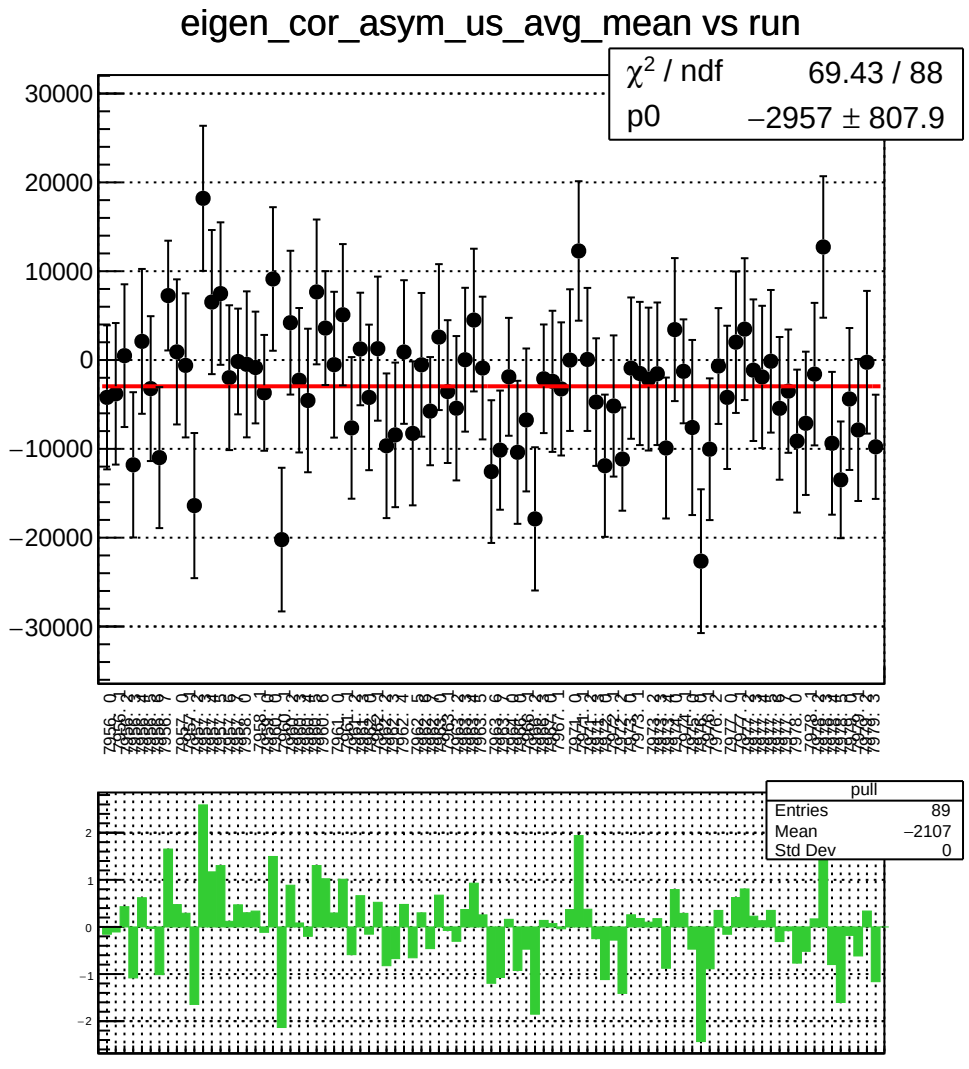
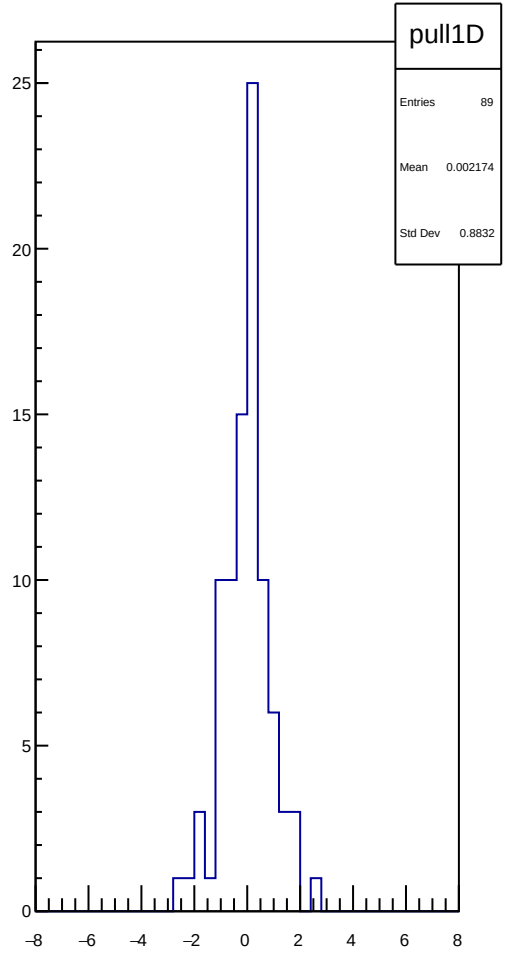
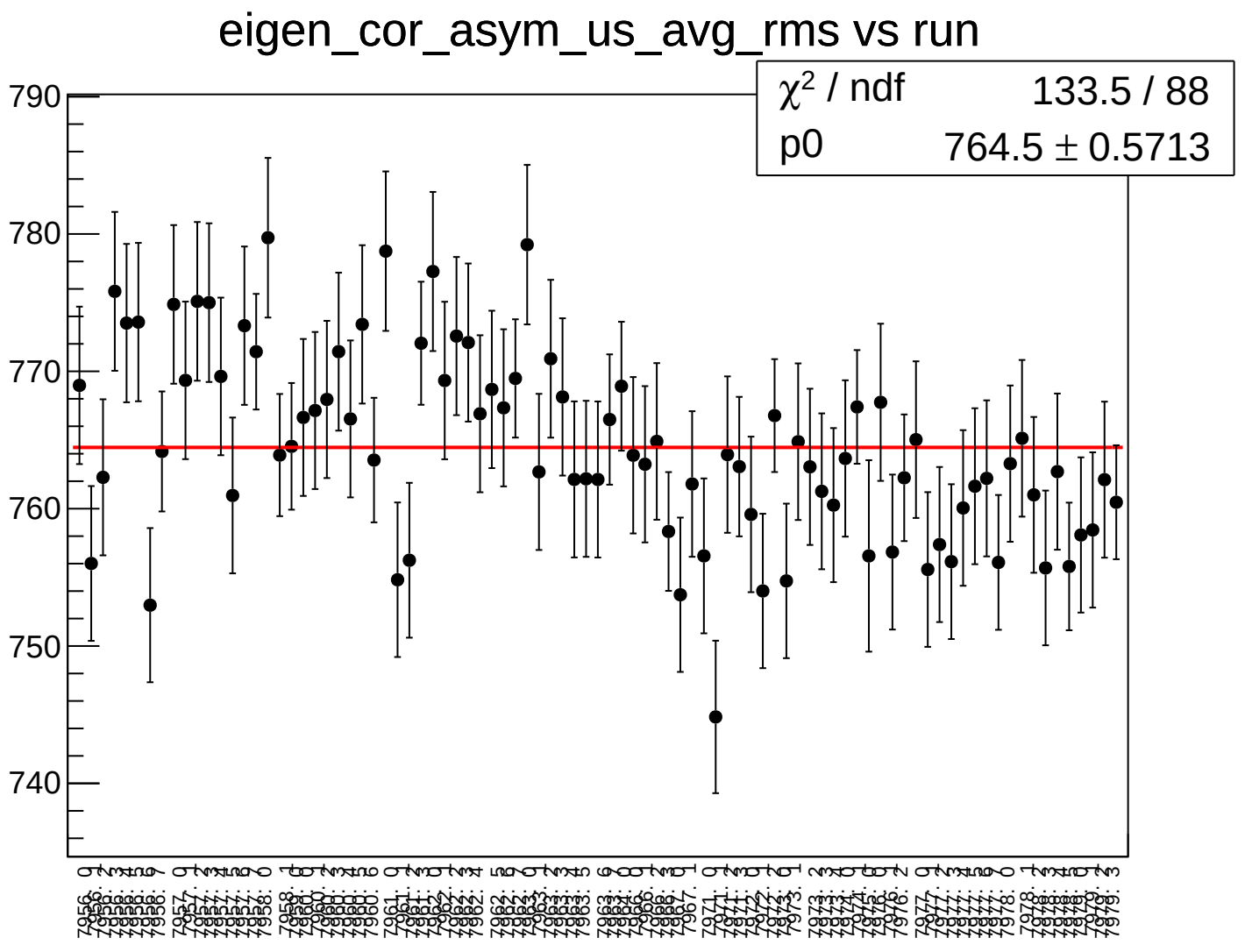
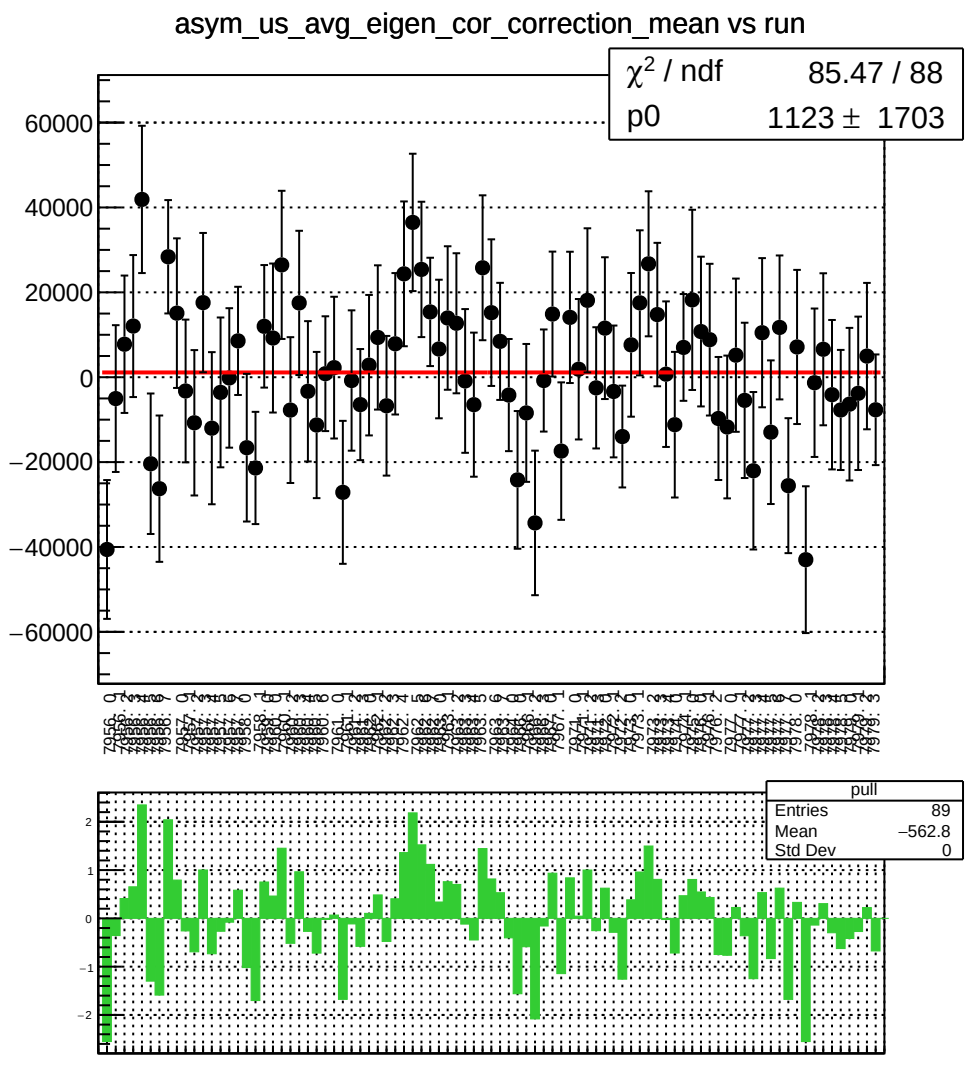
0
2
4
6
8

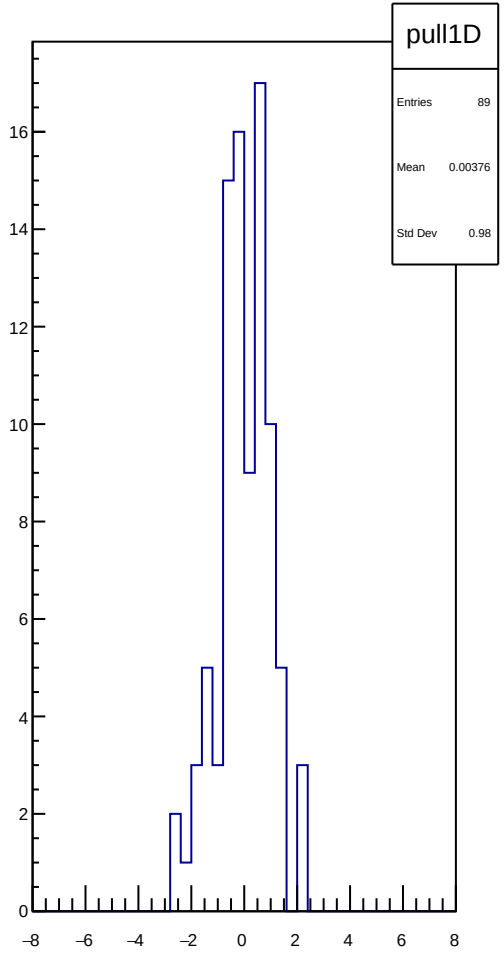

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 2839 / 88
p0 1611 ± 1.205
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

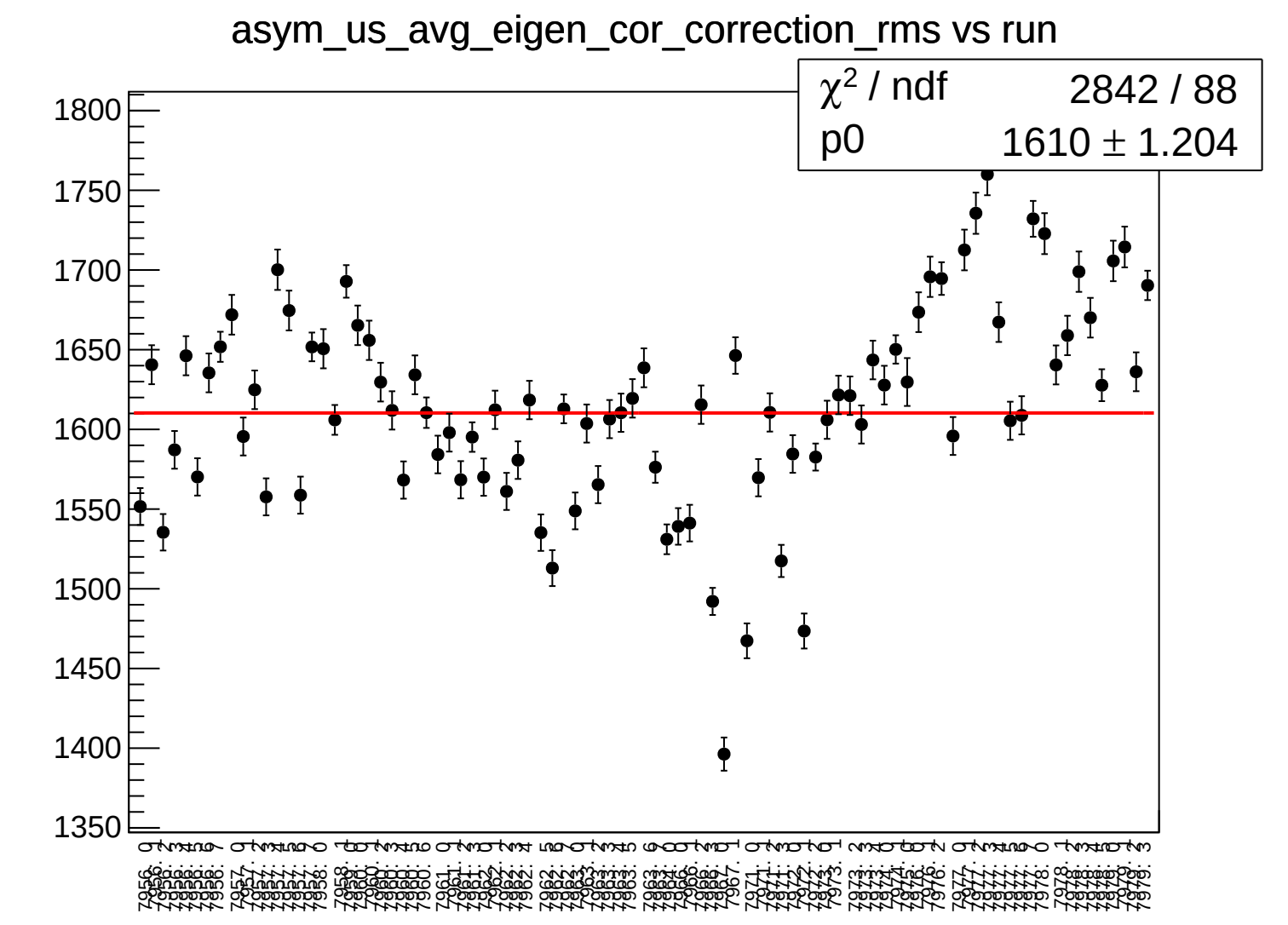

eigen_cor_asym_us_avg_mean vs run
$\chi^2$ / ndf 69.43 / 88
p0 −2957 ± 807.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −2107
Std Dev 0
2
1
0
−1
−2

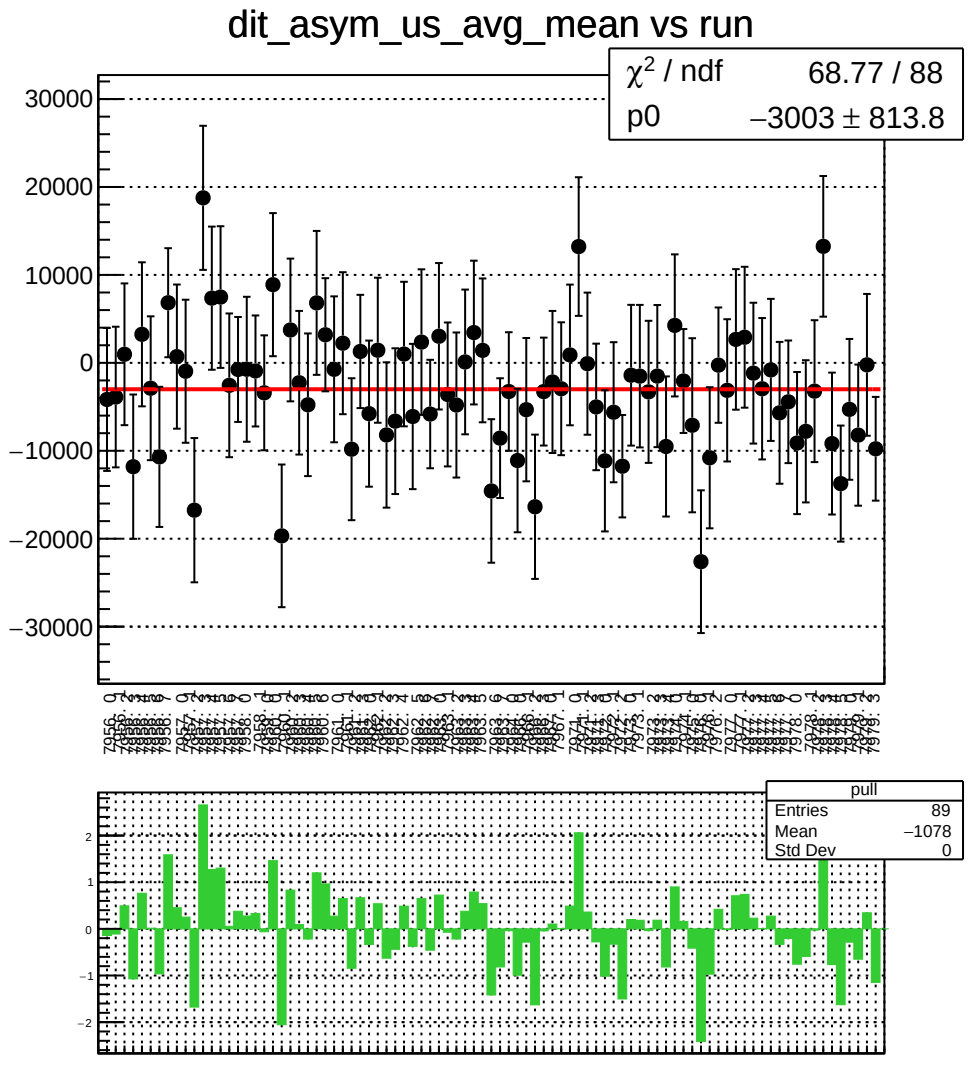

pull1D
Entries 89
Mean 0.002174
Std Dev 0.8832
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

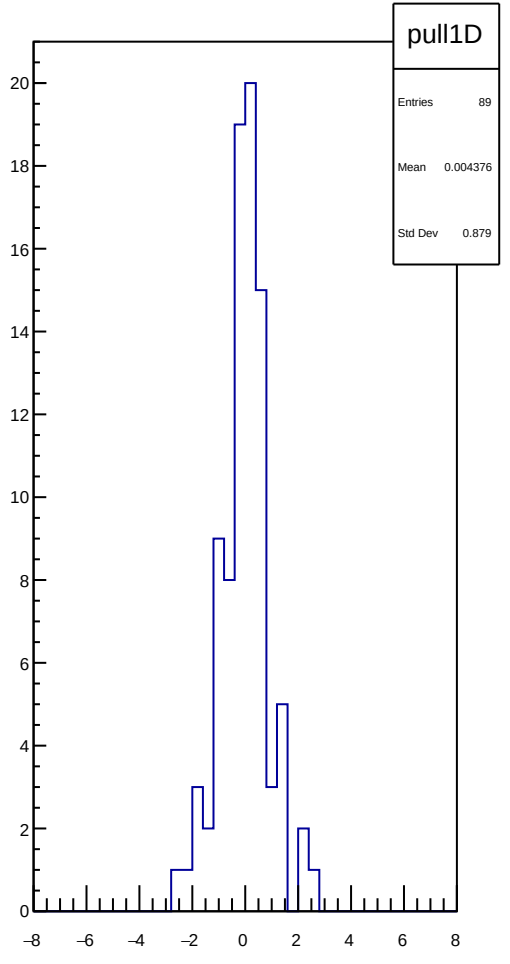

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 133.5 / 88
p0 764.5 ± 0.5713
790
780
770
760
750
740

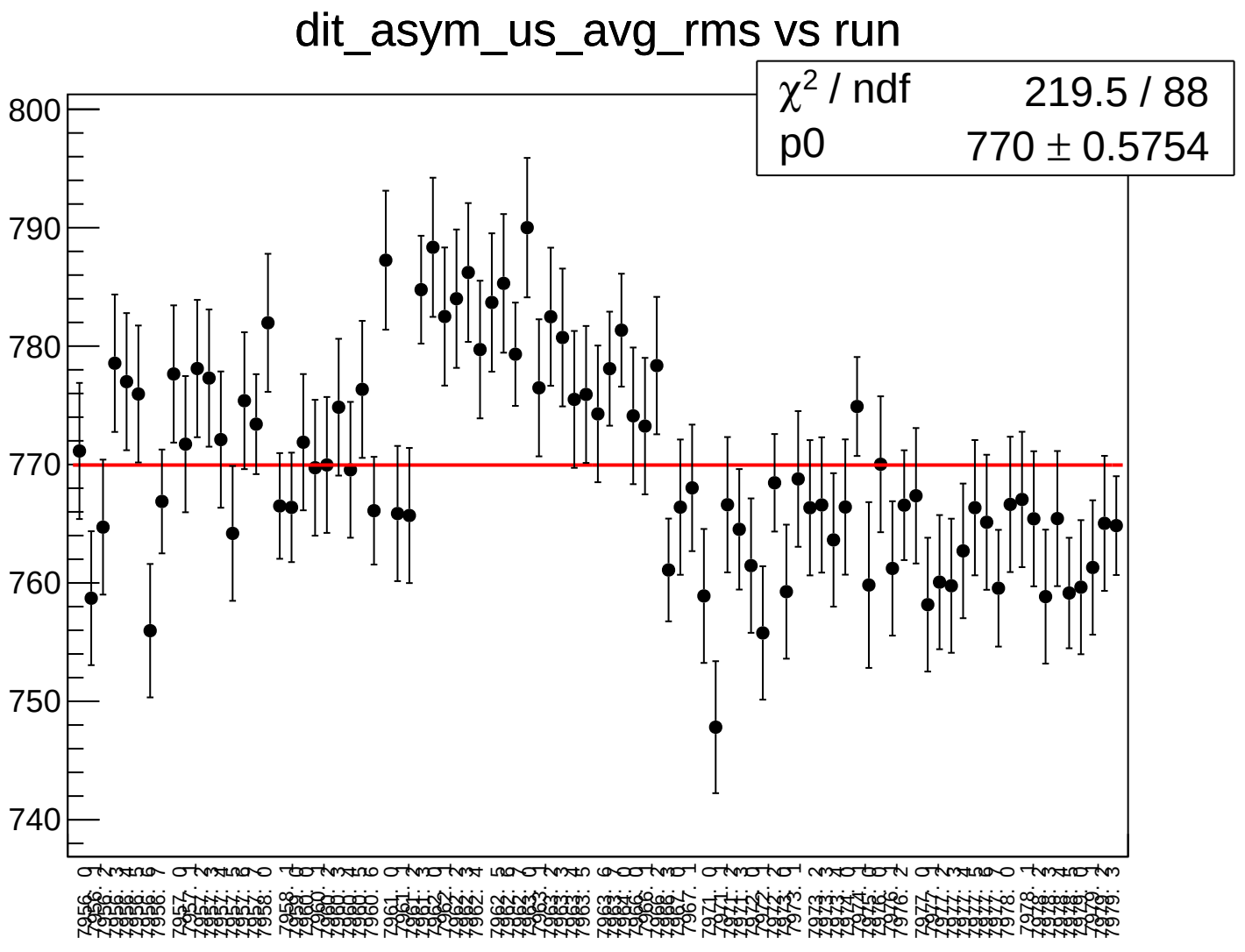

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.47 / 88
p0 1123 ± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −562.8
Std Dev 0
2
1
0
−1
−2

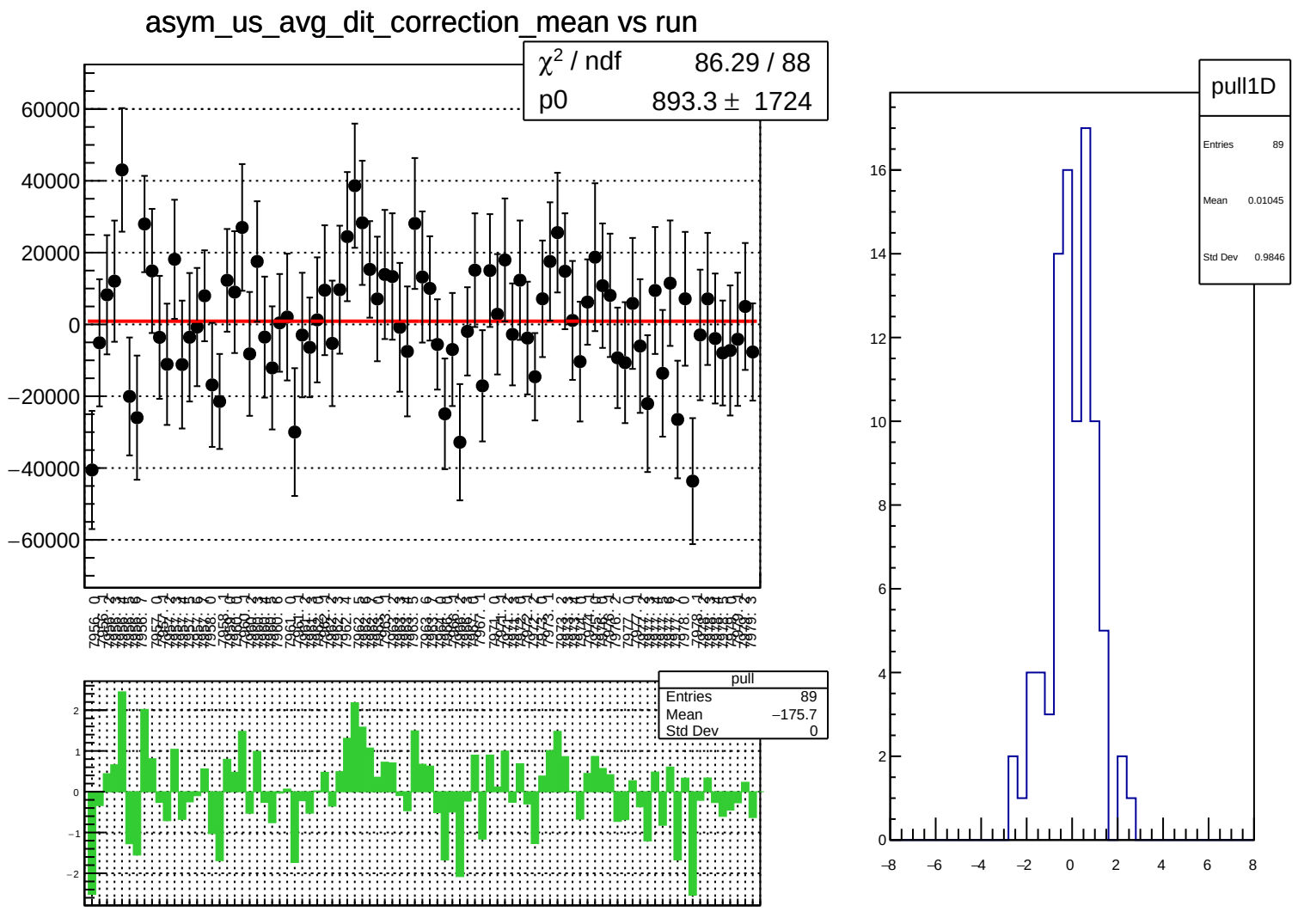

pull1D
Entries 89
Mean 0.00376
Std Dev 0.98
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

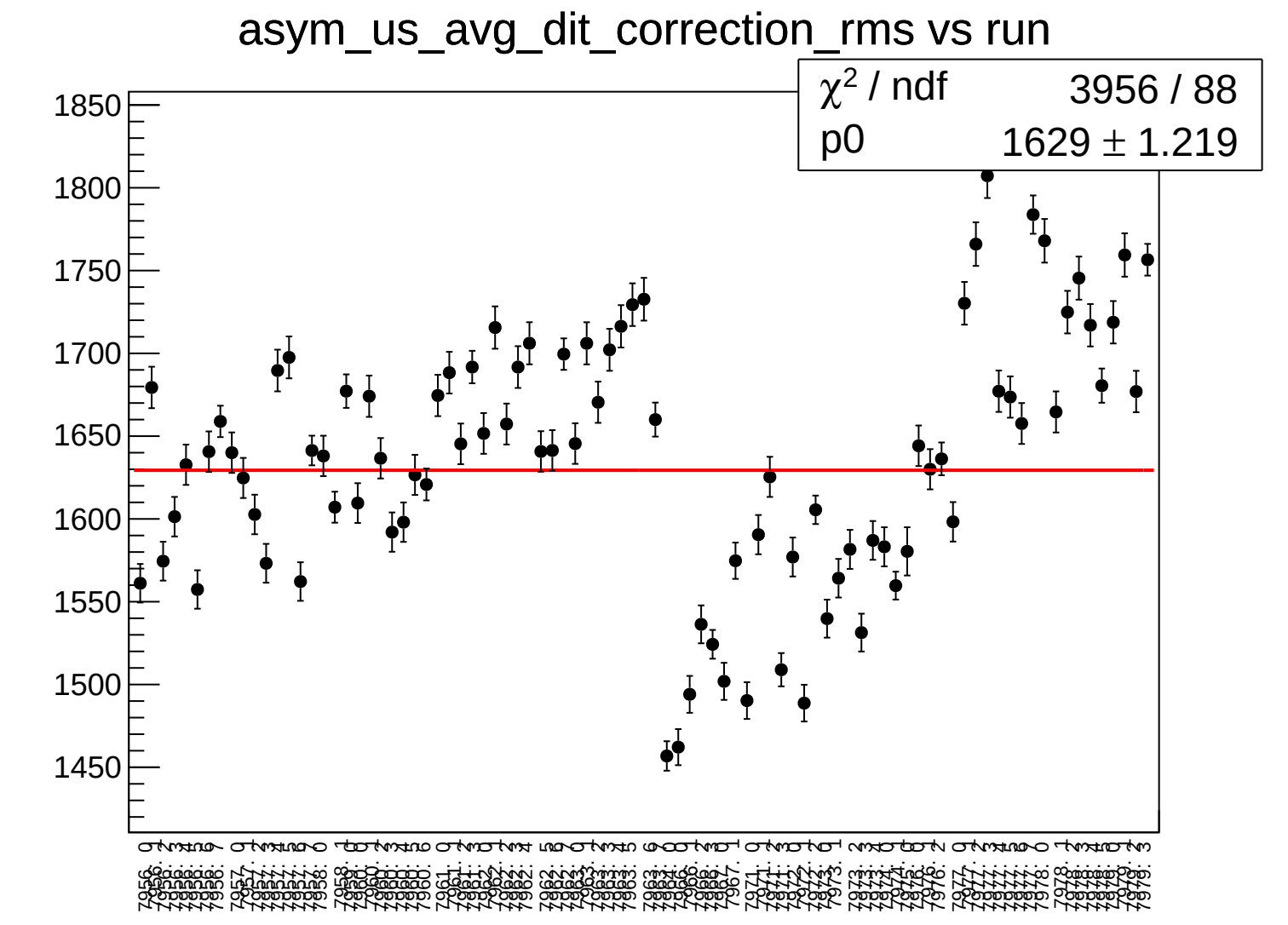

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 2842 / 88
p0 1610 ± 1.204
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

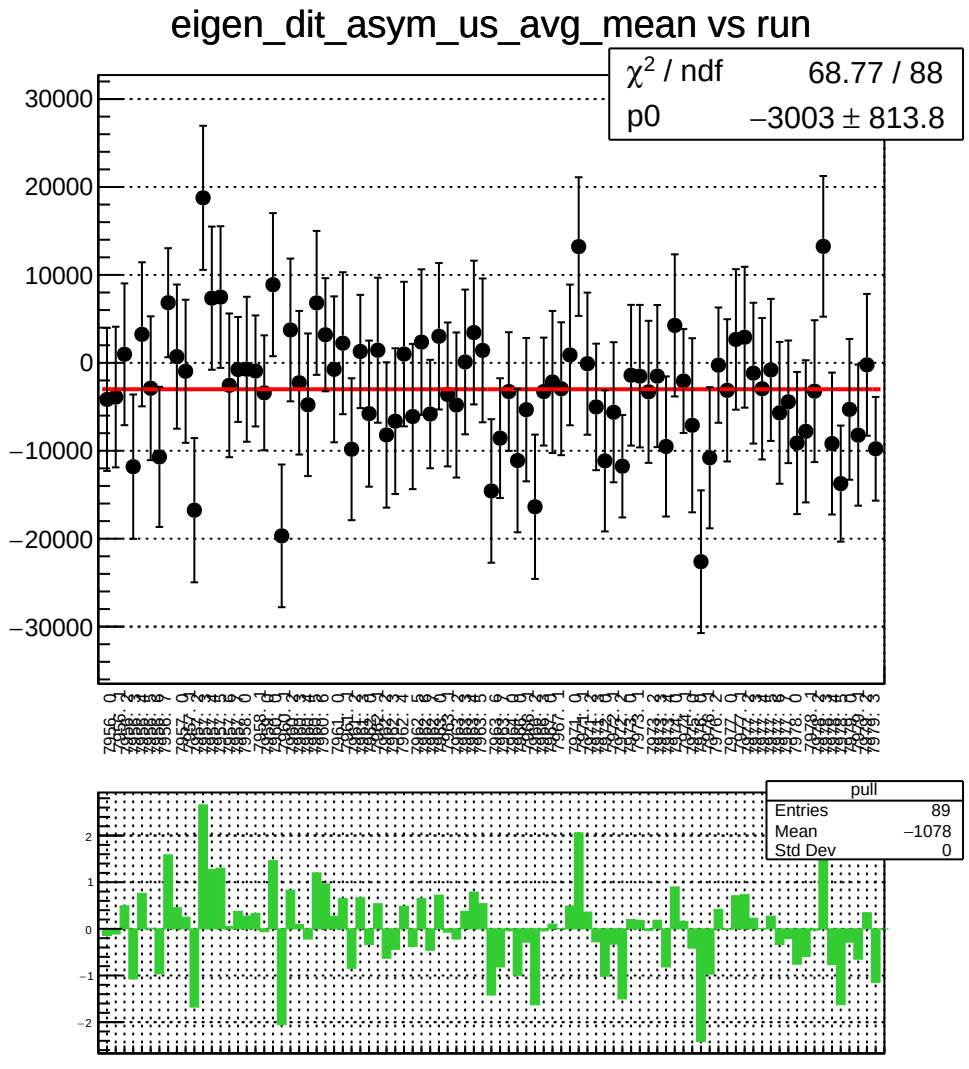

dit_asym_us_avg_mean vs run
χ² / ndf 68.77 / 88
p0 −3003 ± 813.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1078
Std Dev 0
2
1
0
−1
−2

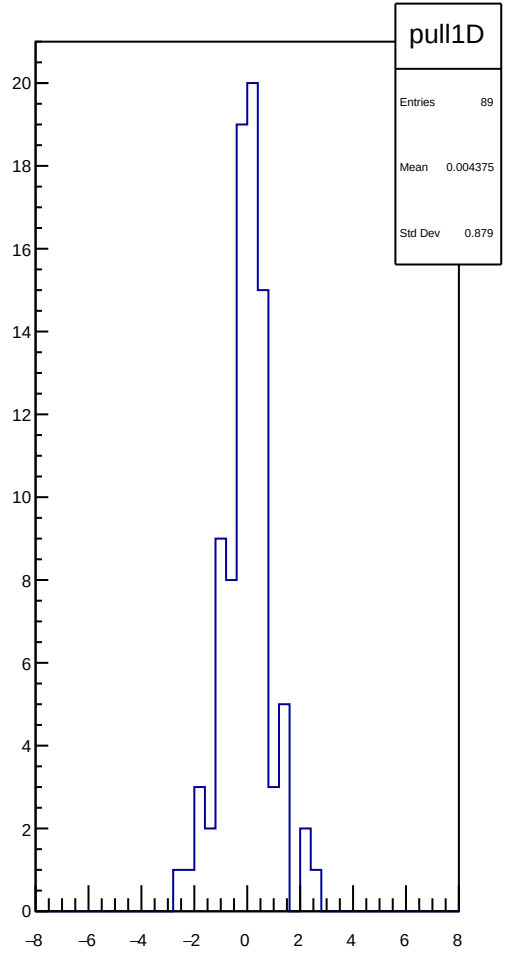

pull1D
Entries 89
Mean 0.004376
Std Dev 0.879
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

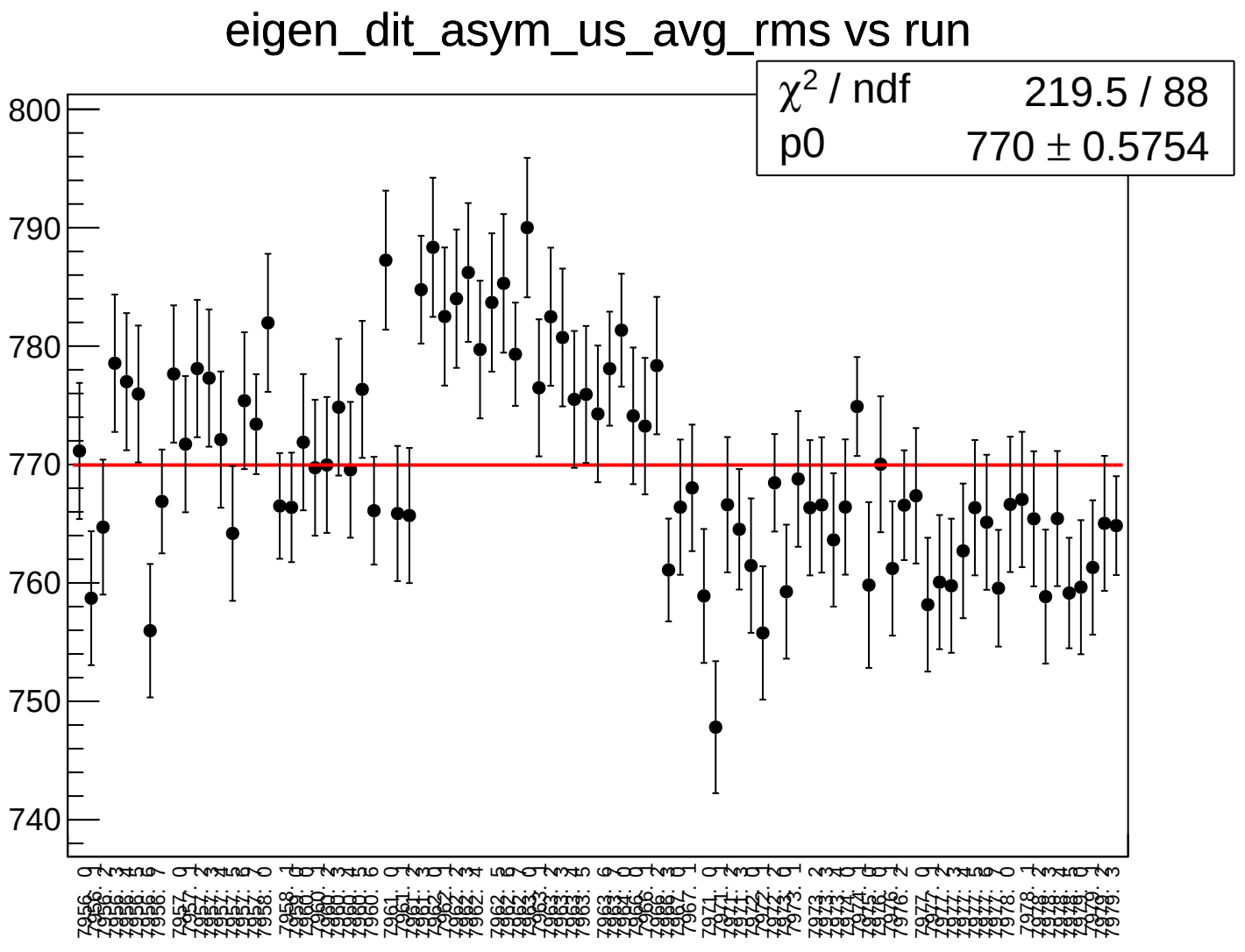

dit_asym_us_avg_rms vs run
χ² / ndf 219.5 / 88
p0 770 ± 0.5754
800
790
780
770
760
750
740

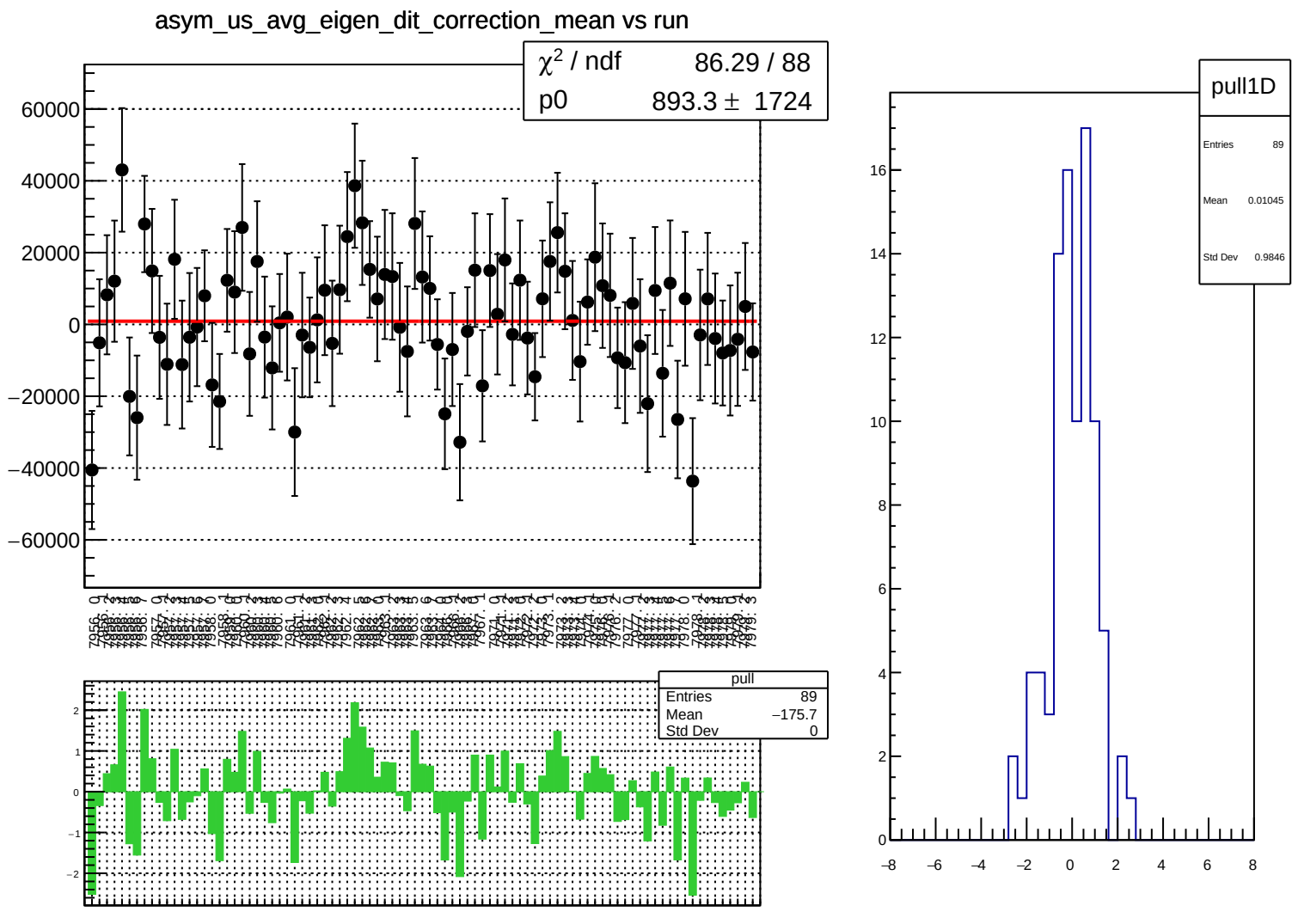

asym_us_avg_dit_correction_mean vs run
χ² / ndf 86.29 / 88
p0 893.3 ± 1724
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −175.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01045
Std Dev 0.9846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

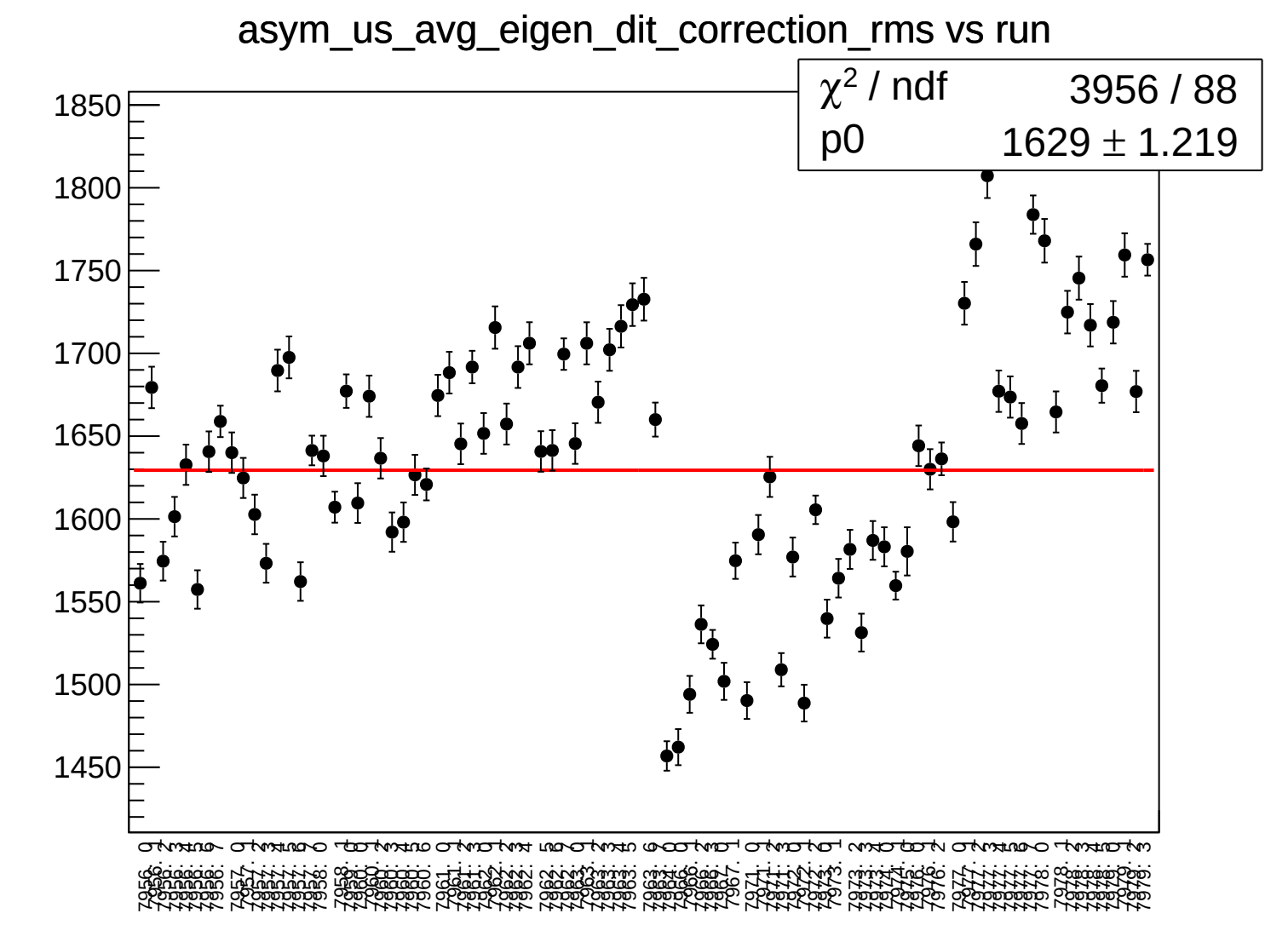

asym_us_avg_dit_correction_rms vs run
χ² / ndf 3956 / 88
p0 1629 ± 1.219
1850
1800
1750
1700
1650
1600
1550
1500
1450

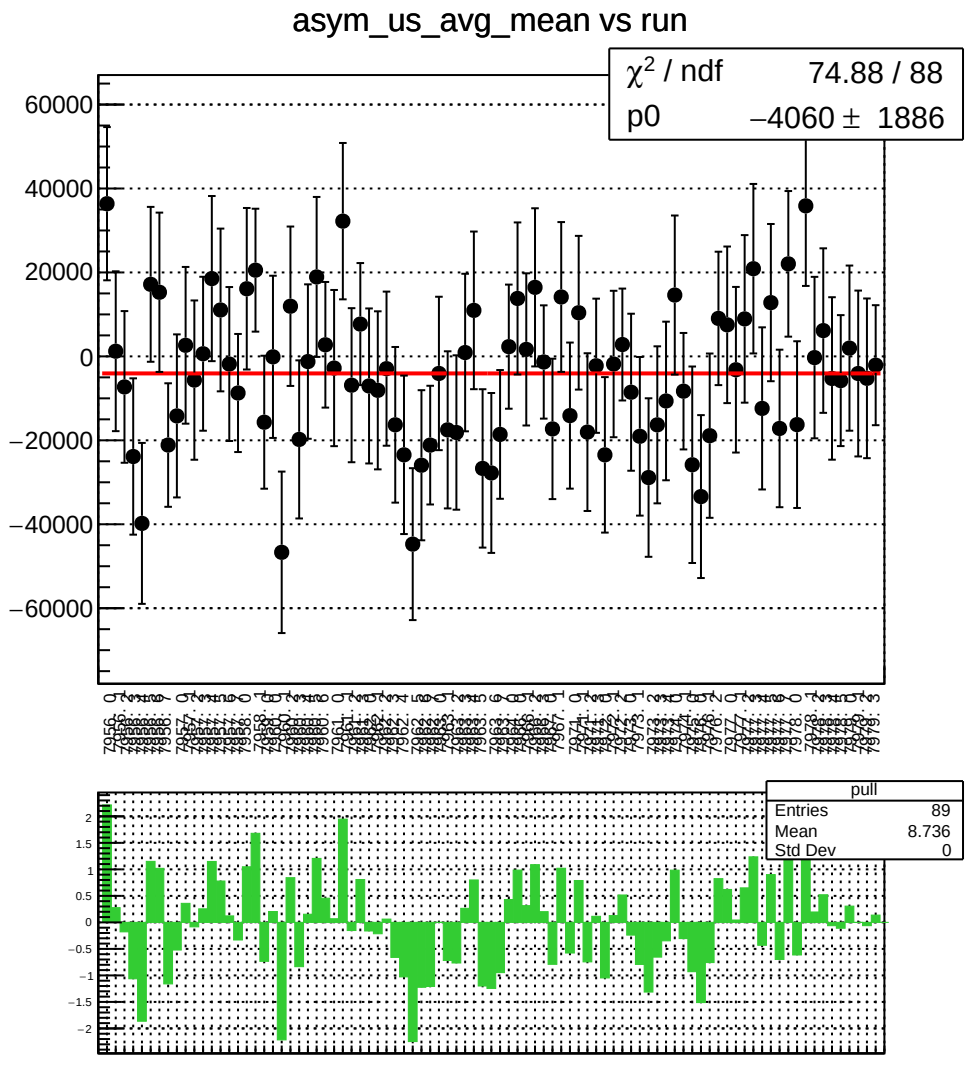

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 68.77 / 88
p0 −3003 ± 813.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1078
Std Dev 0
2
1
0
−1
−2

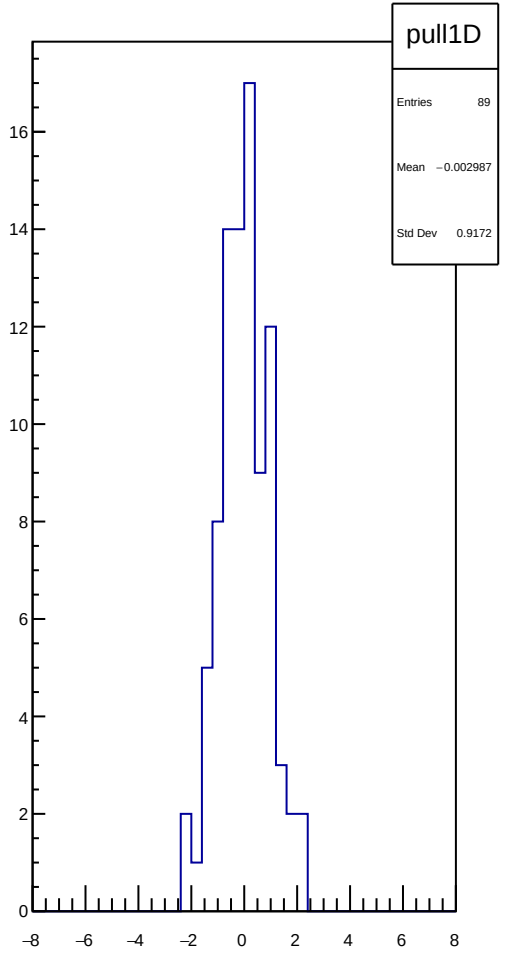

pull1D
Entries 89
Mean 0.004375
Std Dev 0.879
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

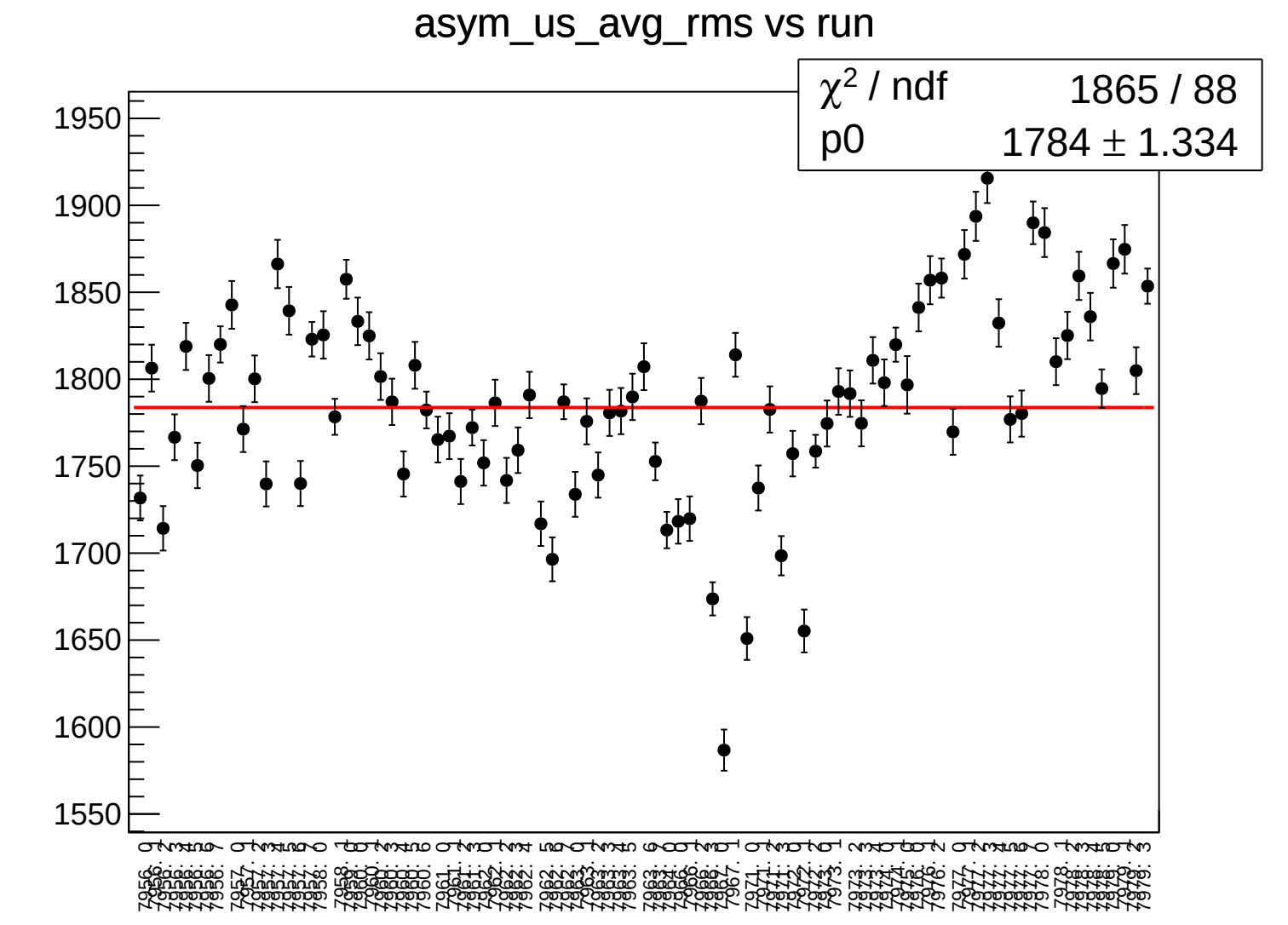

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 219.5 / 88
p0 770 ± 0.5754
800
790
780
770
760
750
740

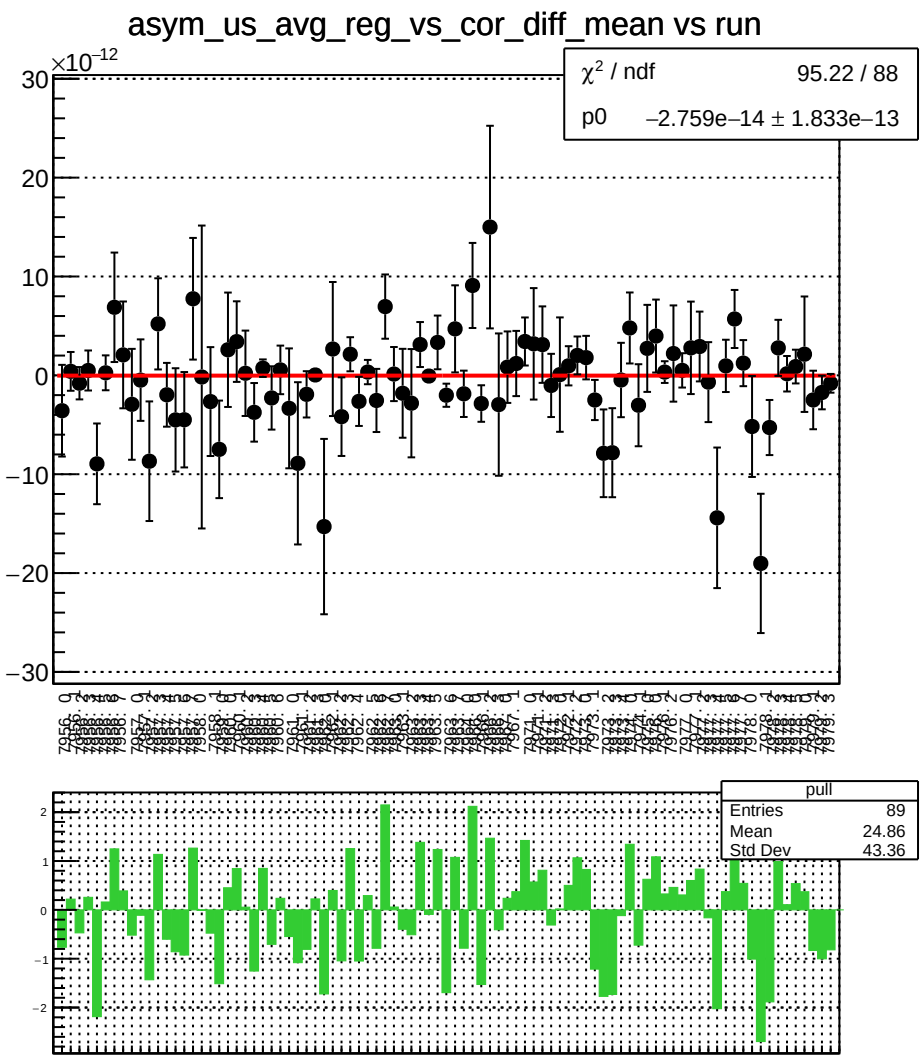

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.29 / 88
p0 893.3 ± 1724
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −175.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01045
Std Dev 0.9846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

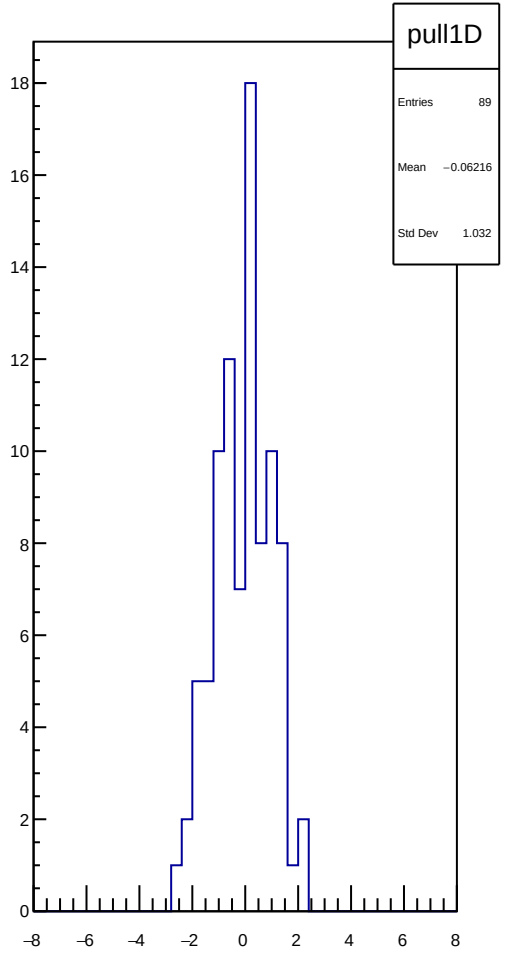

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 3956 / 88
p0 1629 ± 1.219
1850
1800
1750
1700
1650
1600
1550
1500
1450

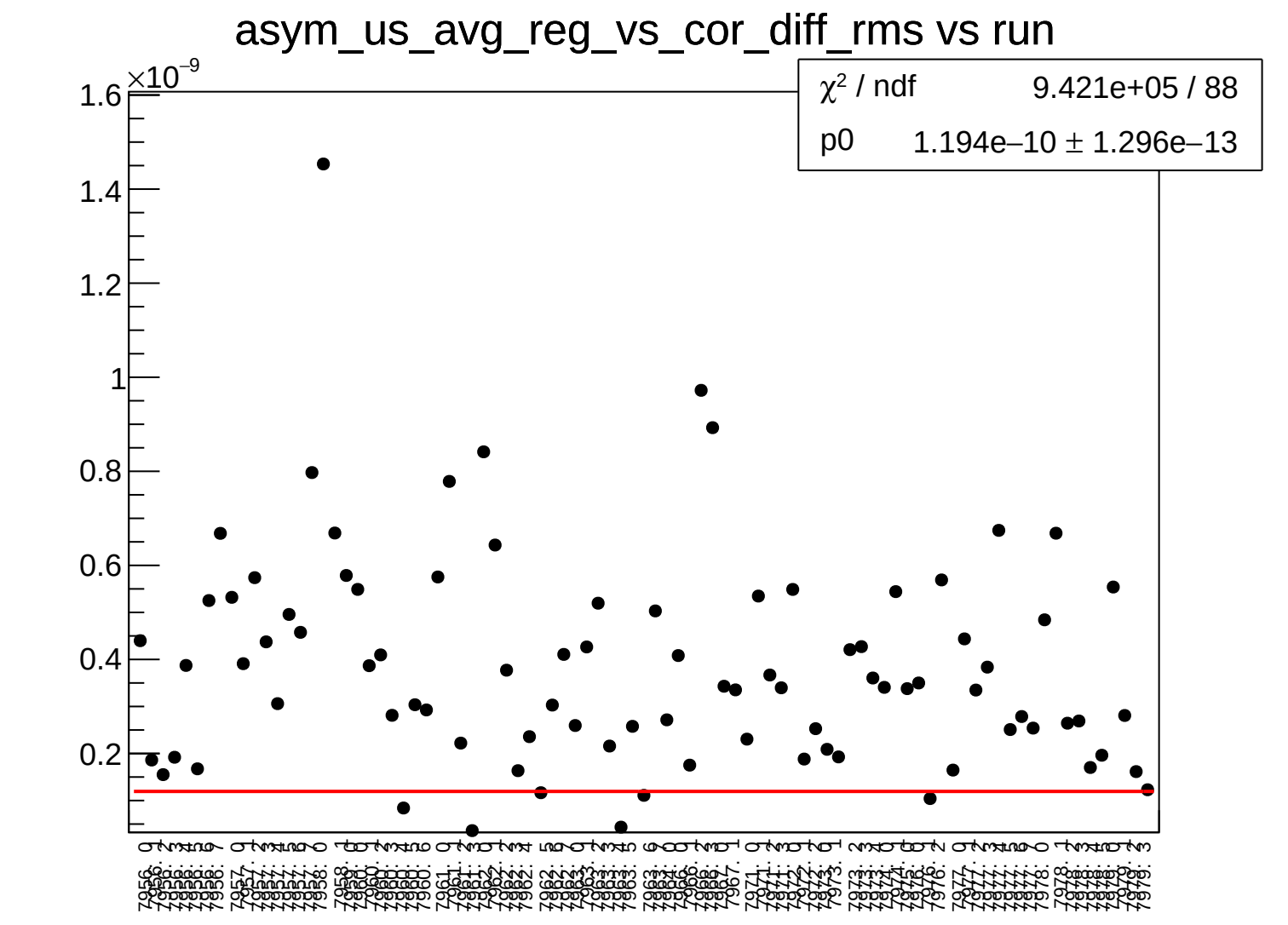

asym_us_avg_mean vs run
χ² / ndf 74.88 / 88
p0 −4060 ± 1886
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 8.736
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

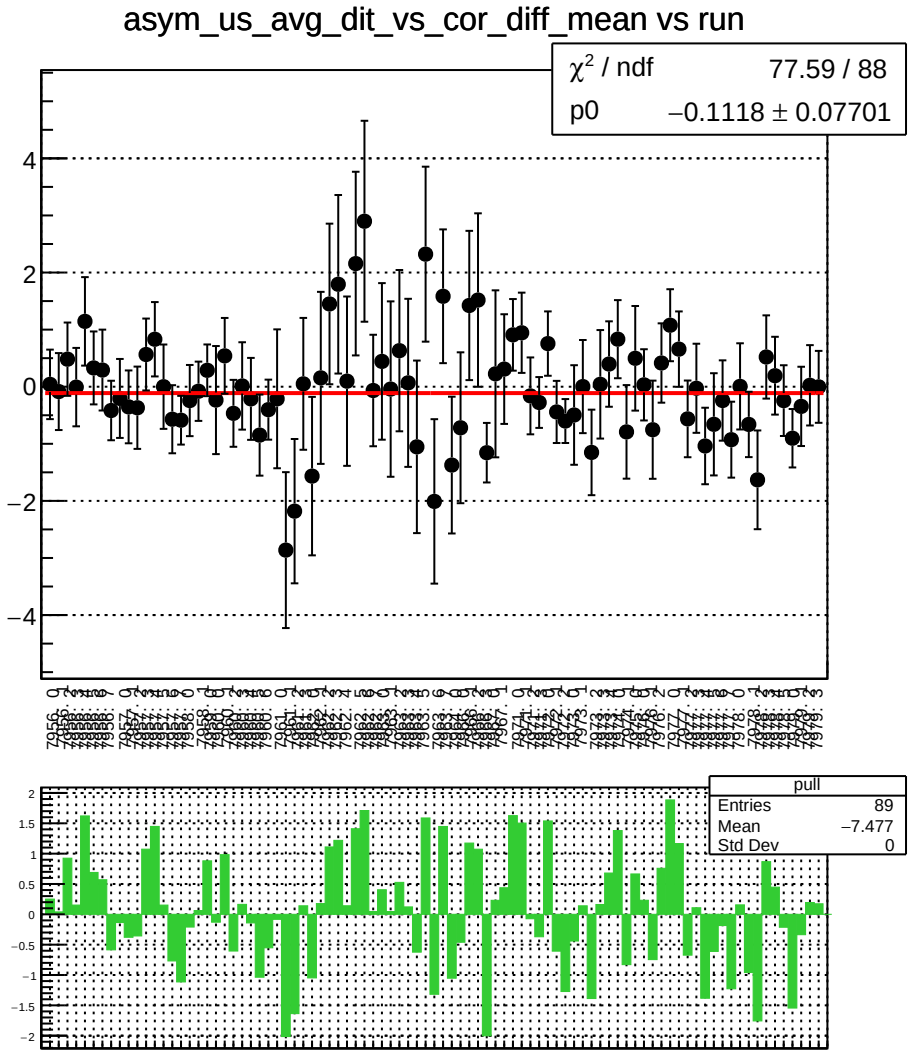

pull1D
Entries 89
Mean −0.002987
Std Dev 0.9172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

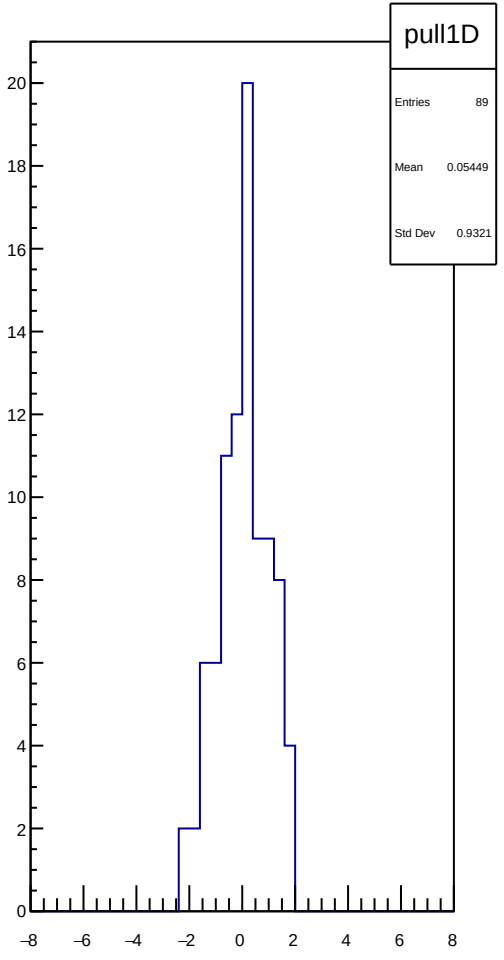

asym_us_avg_rms vs run
$\chi^2$ / ndf 1865 / 88
p0 1784 ± 1.334
1950
1900
1850
1800
1750
1700
1650
1600
1550

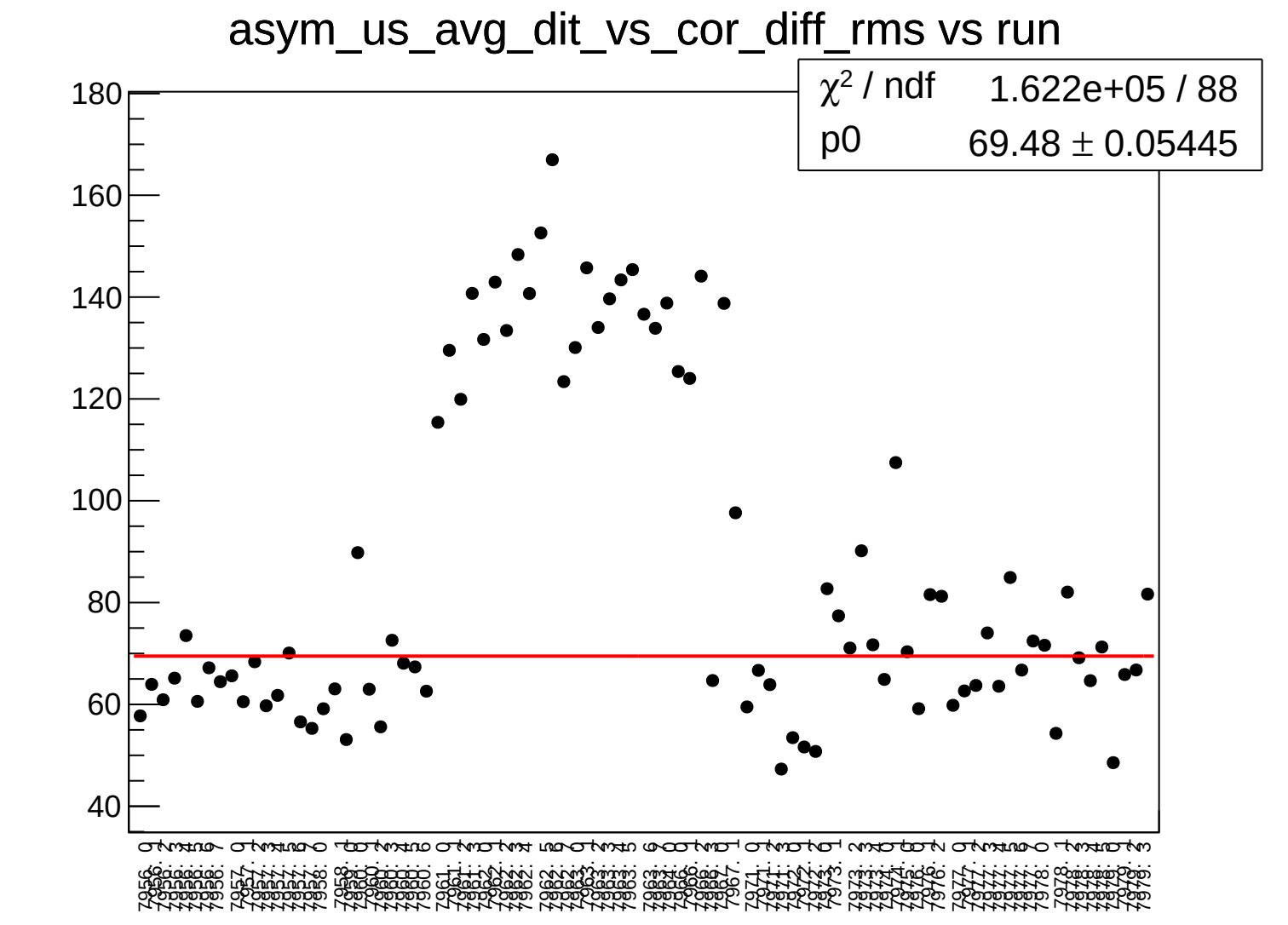

asym_us_avg_reg_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 95.22 / 88
p0 −2.759e−14 ± 1.833e−13
pull
Entries 89
Mean 24.86
Std Dev 43.36

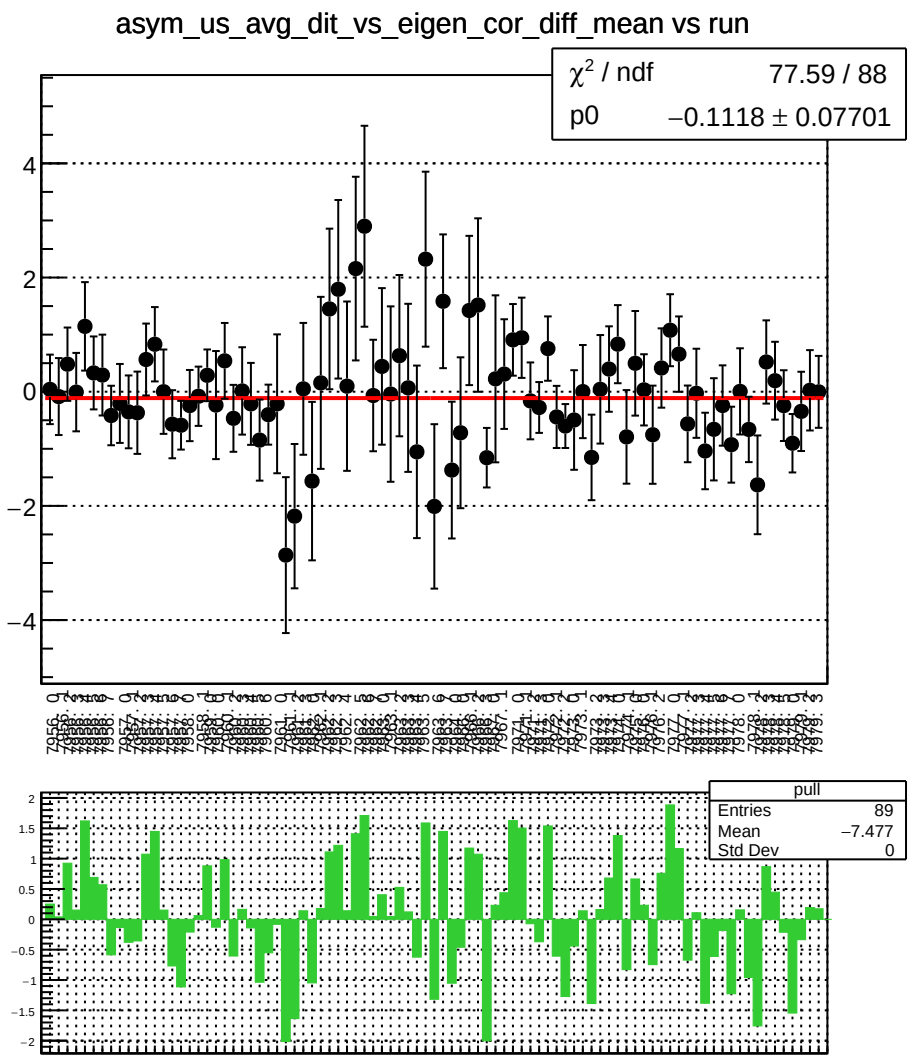

pull1D
Entries 89
Mean −0.06216
Std Dev 1.032

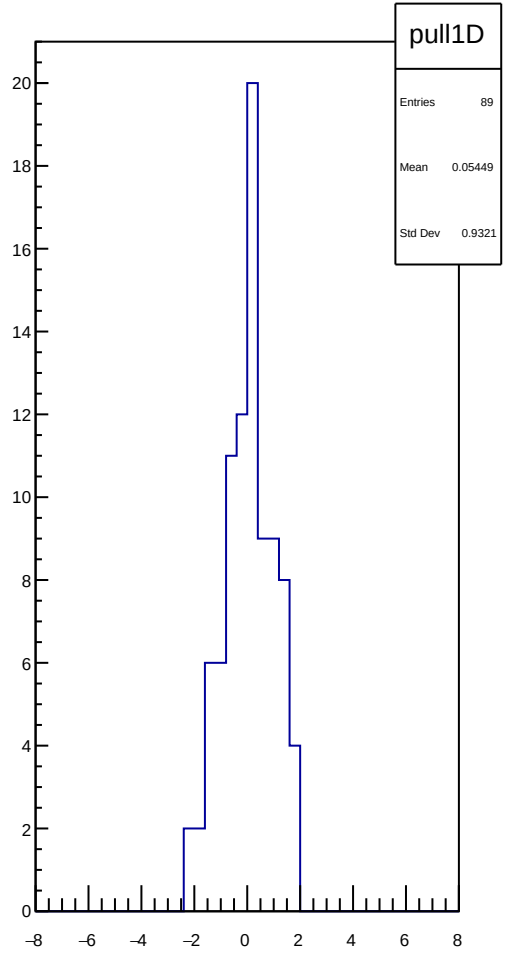

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 9.421e+05 / 88
p0 1.194e−10 ± 1.296e−13

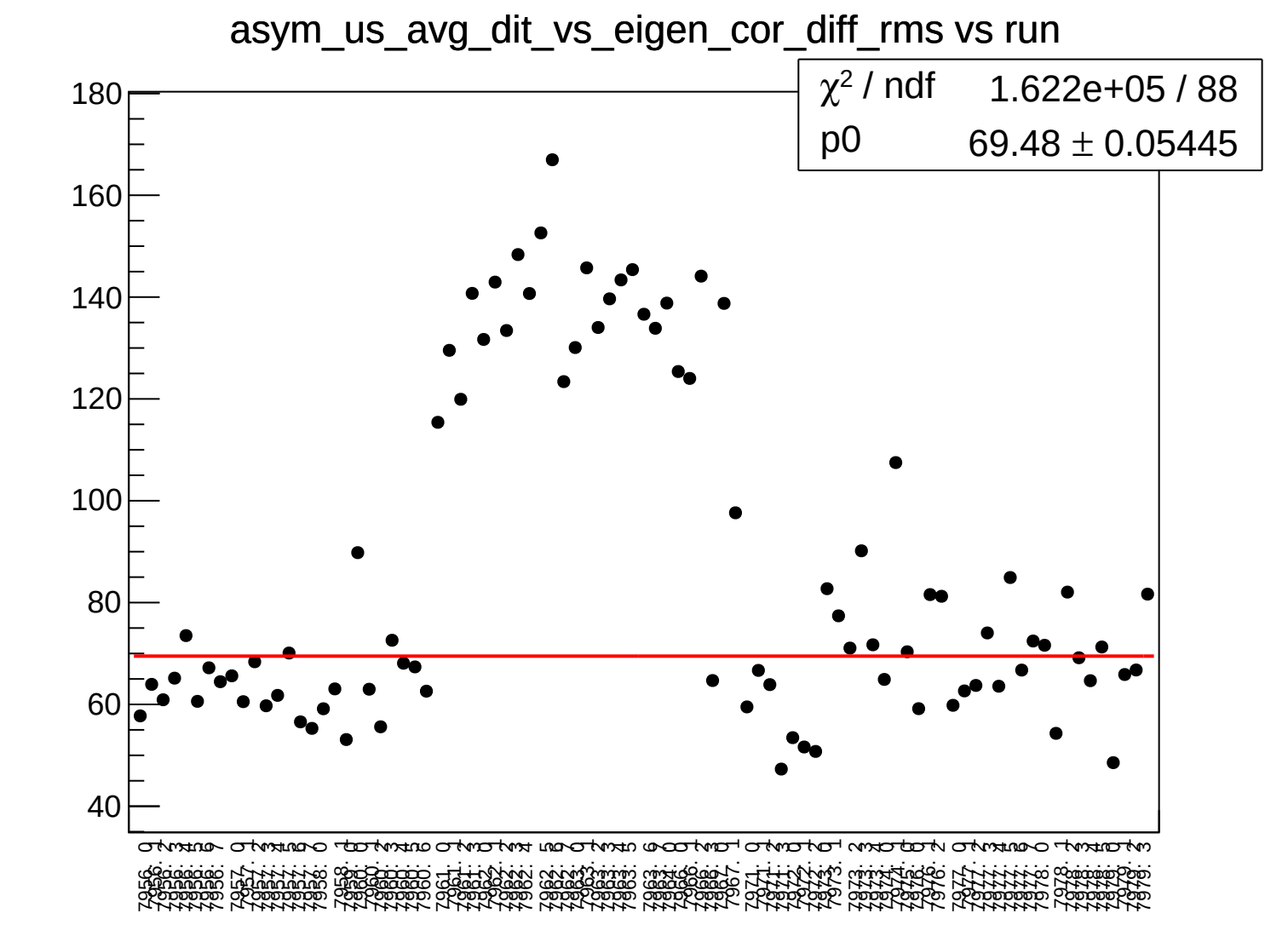

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.59 / 88
p0 −0.1118 ± 0.07701
pull
Entries 89
Mean −7.477
Std Dev 0

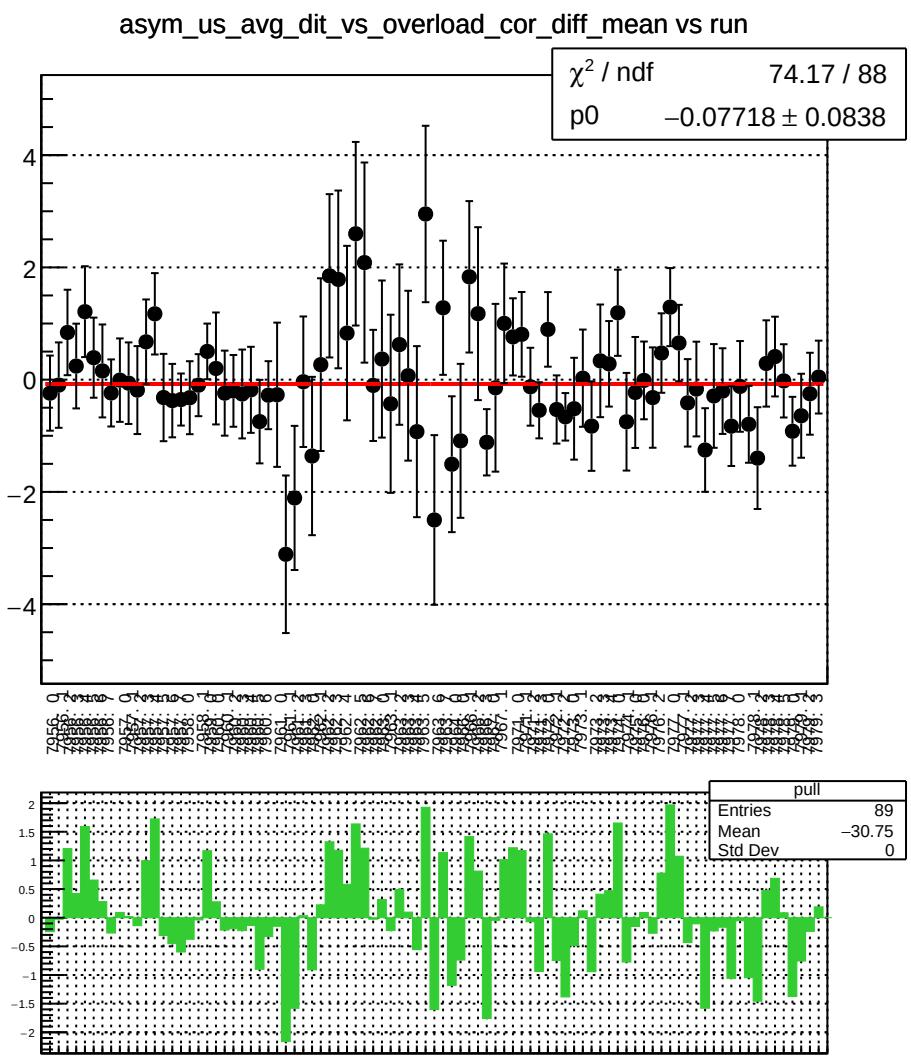

pull1D
Entries 89
Mean 0.05449
Std Dev 0.9321

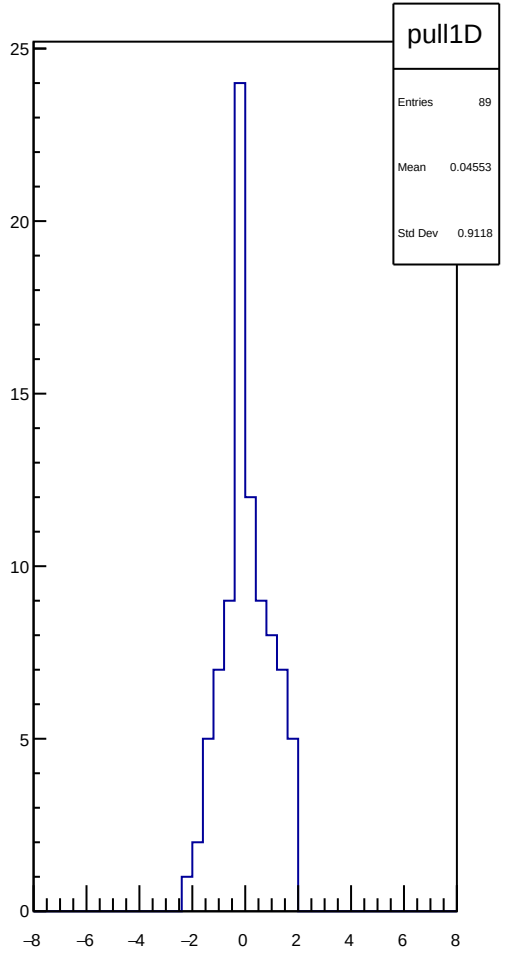

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.622e+05 / 88
p0 69.48 ± 0.05445
180
160
140
120
100
80
60
40

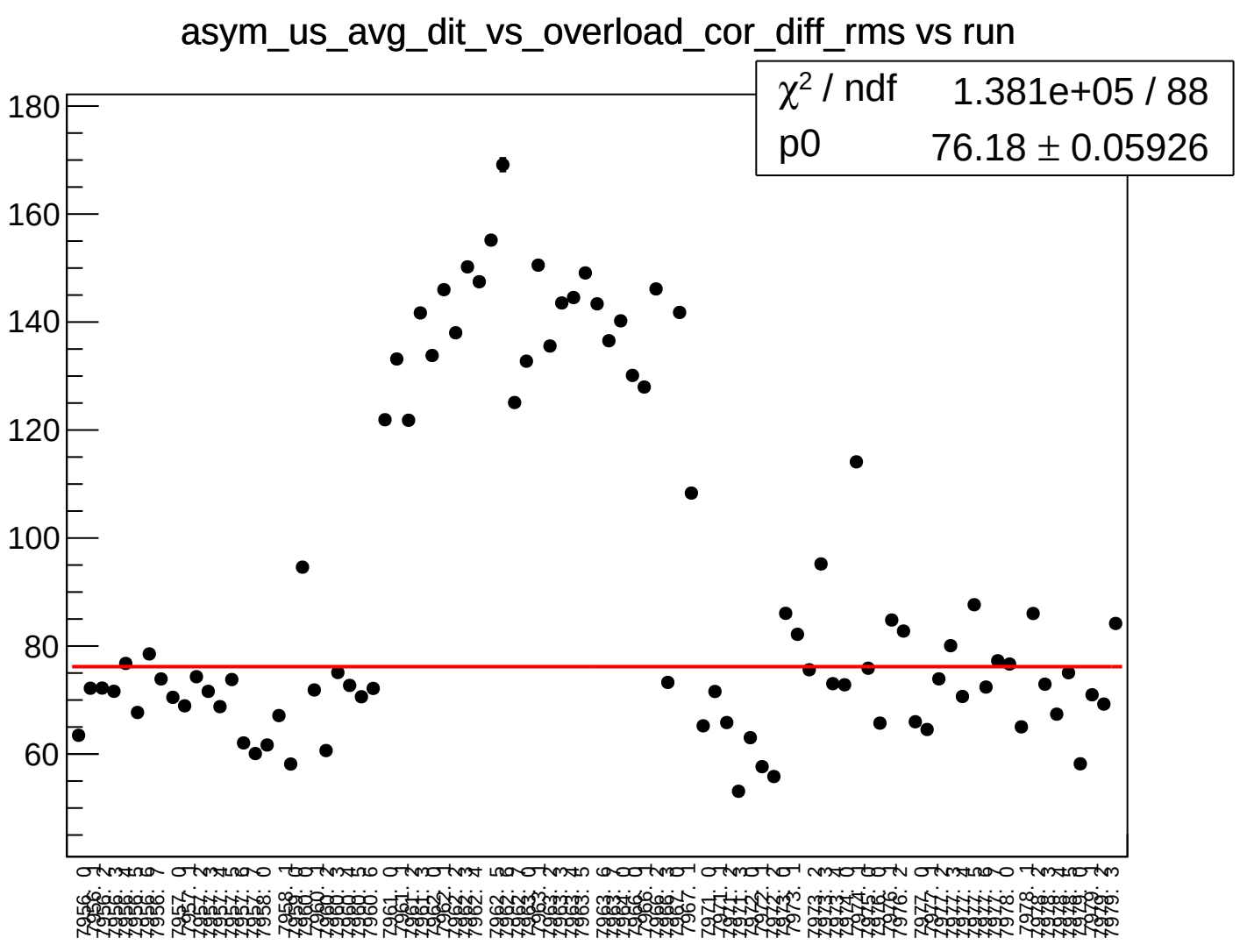

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.59 / 88
p0 −0.1118 ± 0.07701
pull
Entries 89
Mean −7.477
Std Dev 0

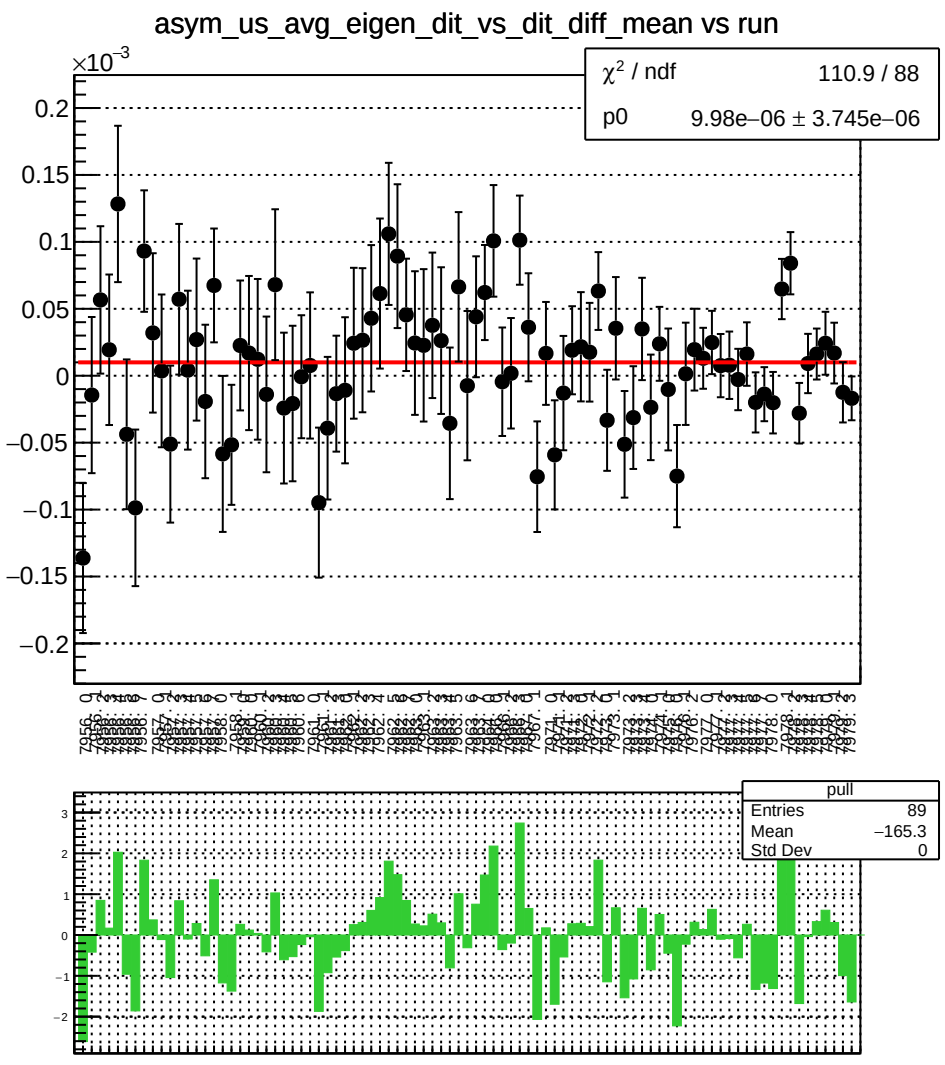

pull1D
Entries 89
Mean 0.05449
Std Dev 0.9321

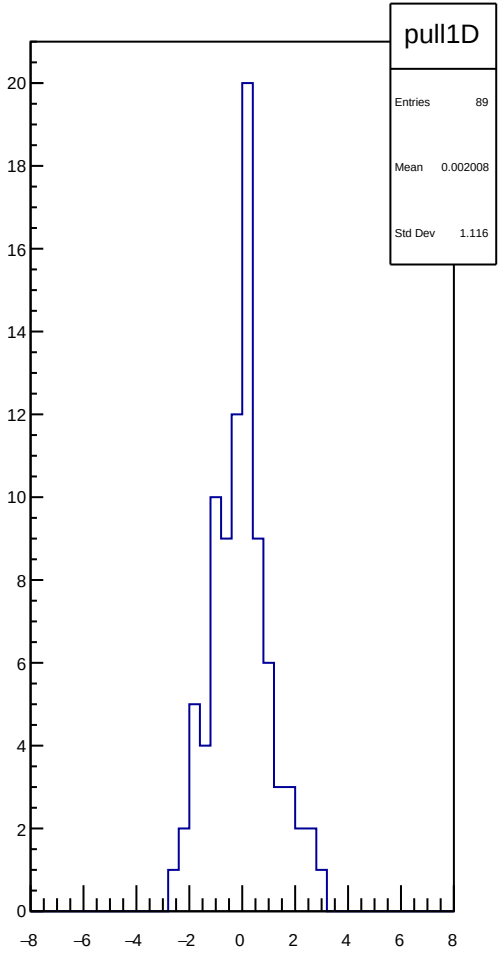

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.622e+05 / 88
p0 69.48 ± 0.05445
180
160
140
120
100
80
60
40

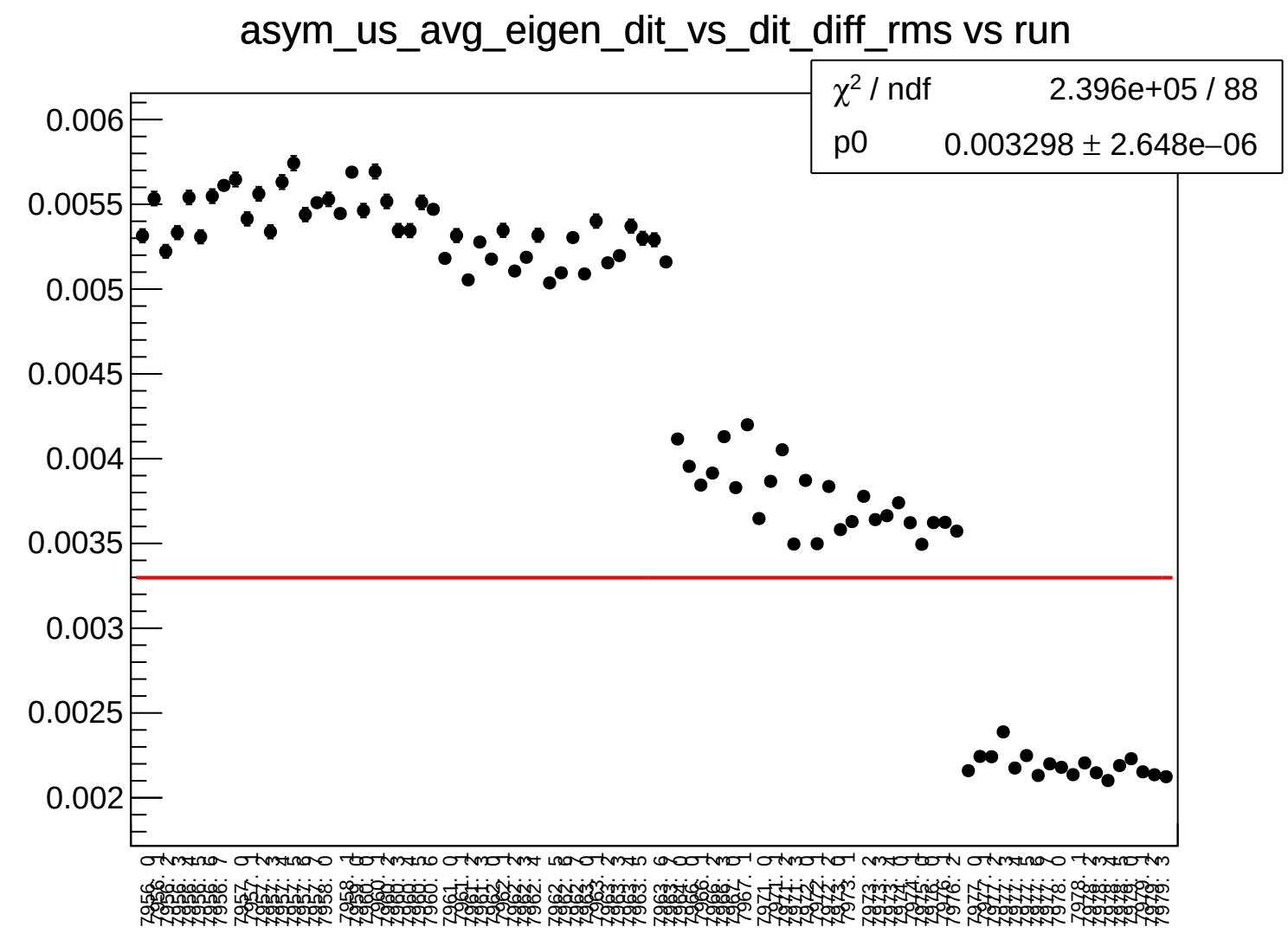

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 74.17 / 88
p0 −0.07718 ± 0.0838
pull
Entries 89
Mean −30.75
Std Dev 0

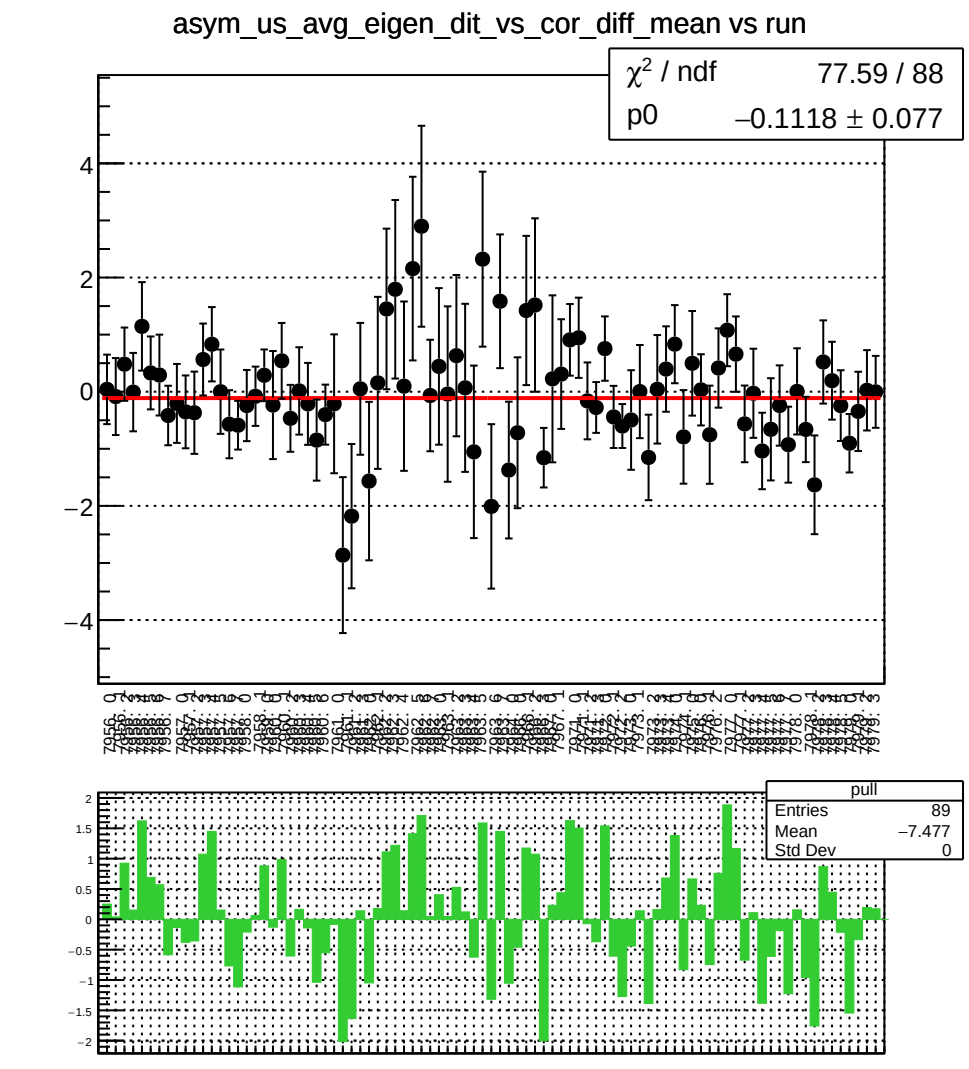

pull1D
Entries 89
Mean 0.04553
Std Dev 0.9118

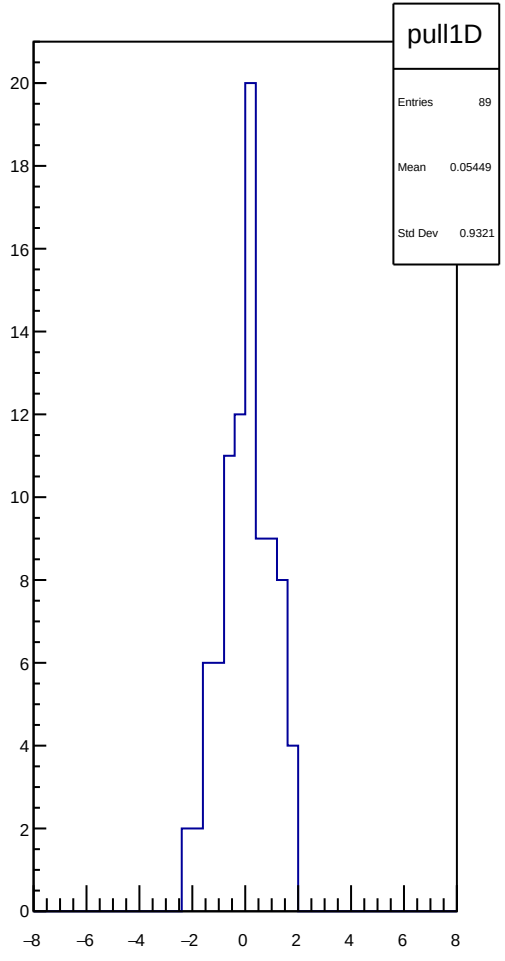

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 88
p0 76.18 ± 0.05926
180
160
140
120
100
80
60

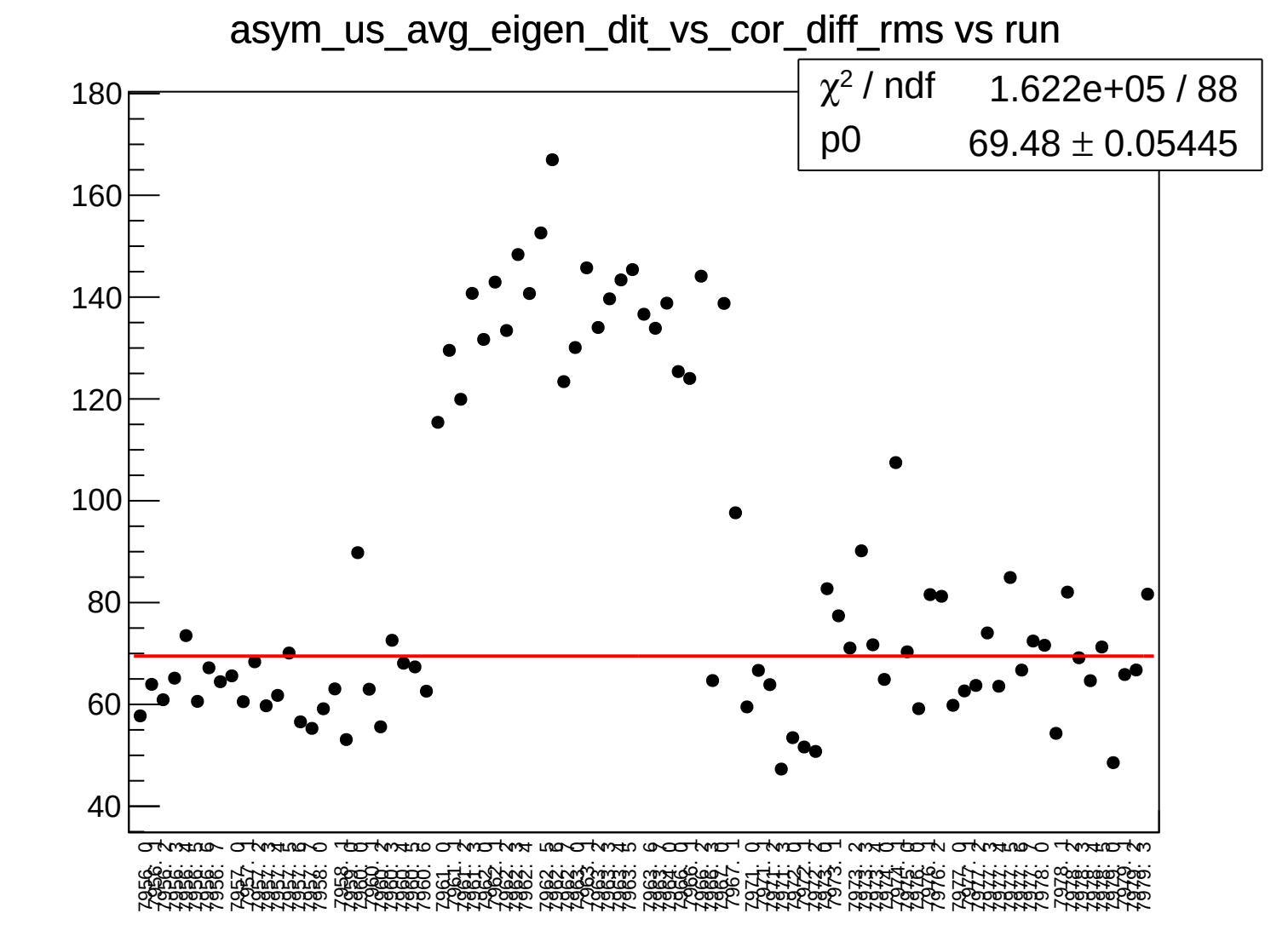

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.9 / 88
p0 9.98e−06 ± 3.745e−06
pull
Entries 89
Mean −165.3
Std Dev 0

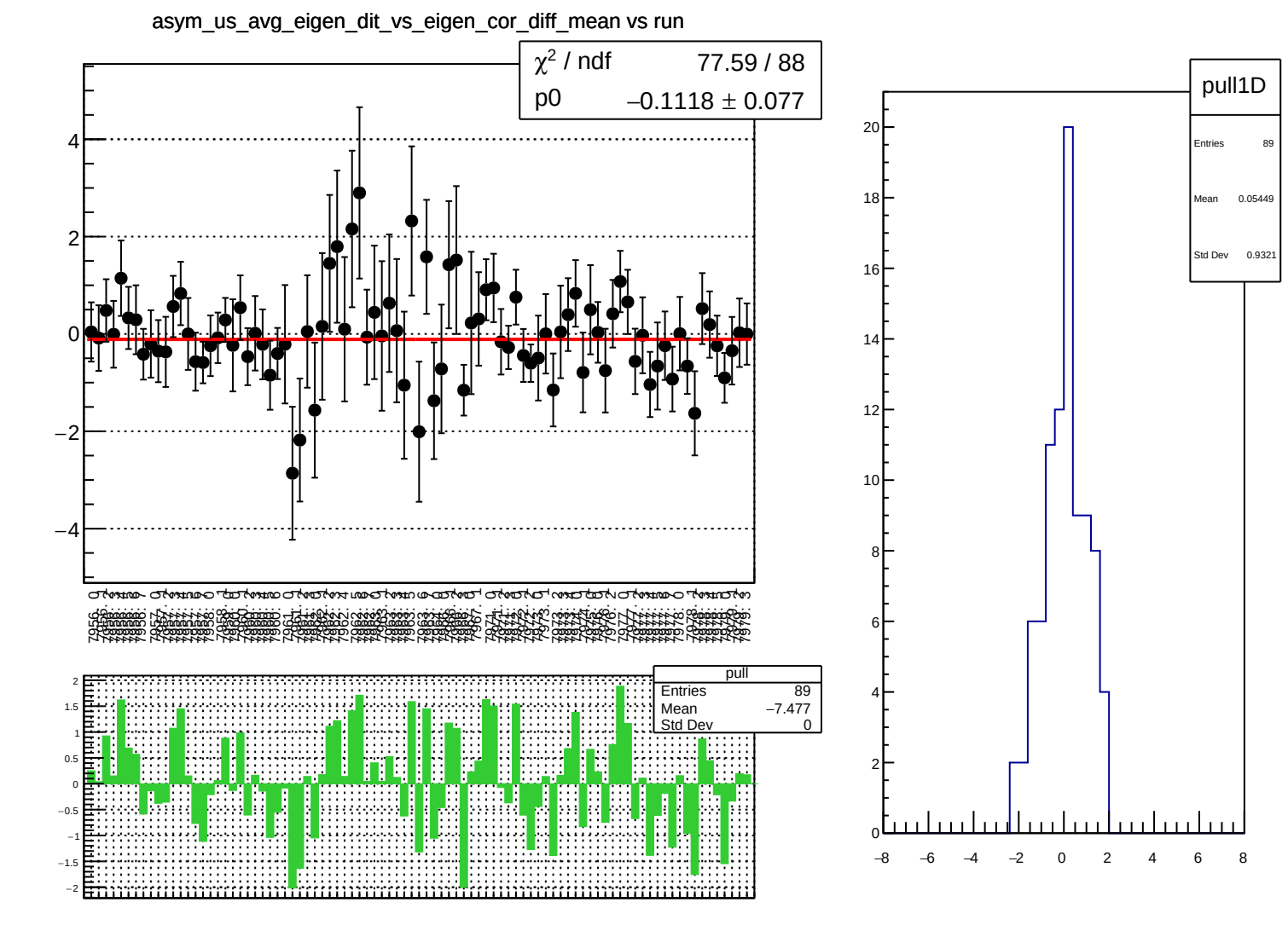

pull1D
Entries 89
Mean 0.002008
Std Dev 1.116

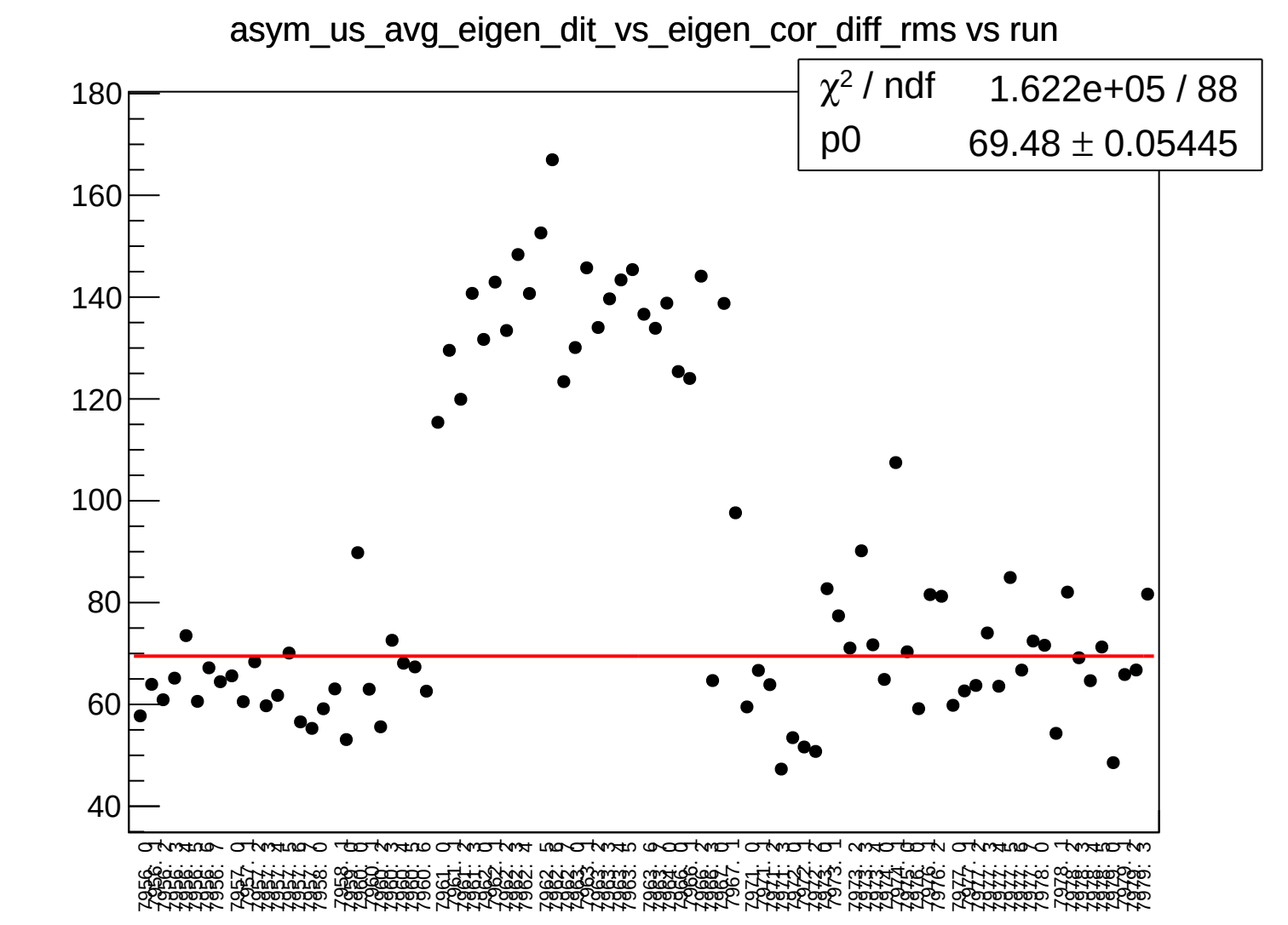

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.396e+05 / 88
p0 0.003298 ± 2.648e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

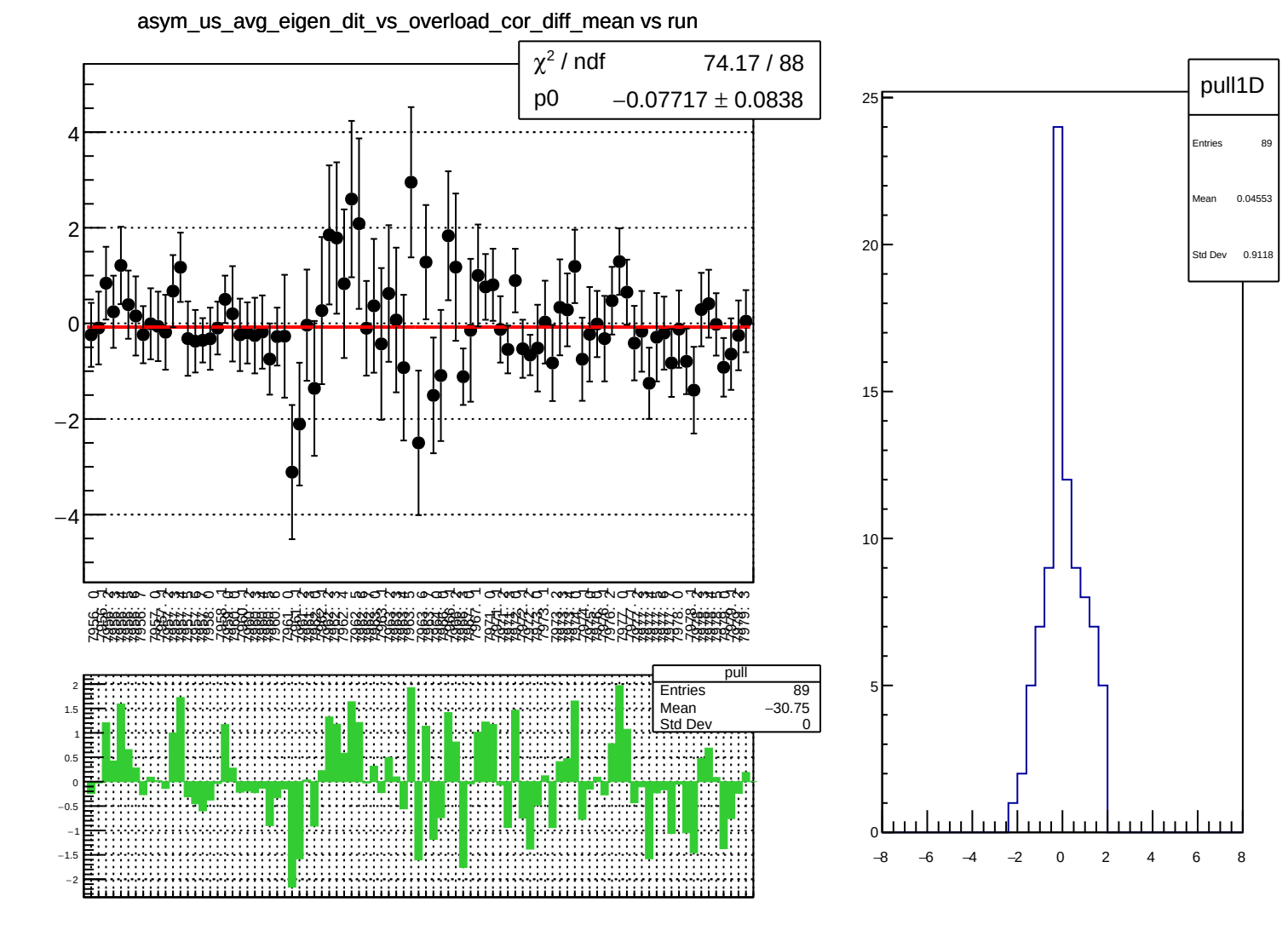

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.59 / 88
p0 –0.1118 ± 0.077
pull
Entries 89
Mean –7.477
Std Dev 0

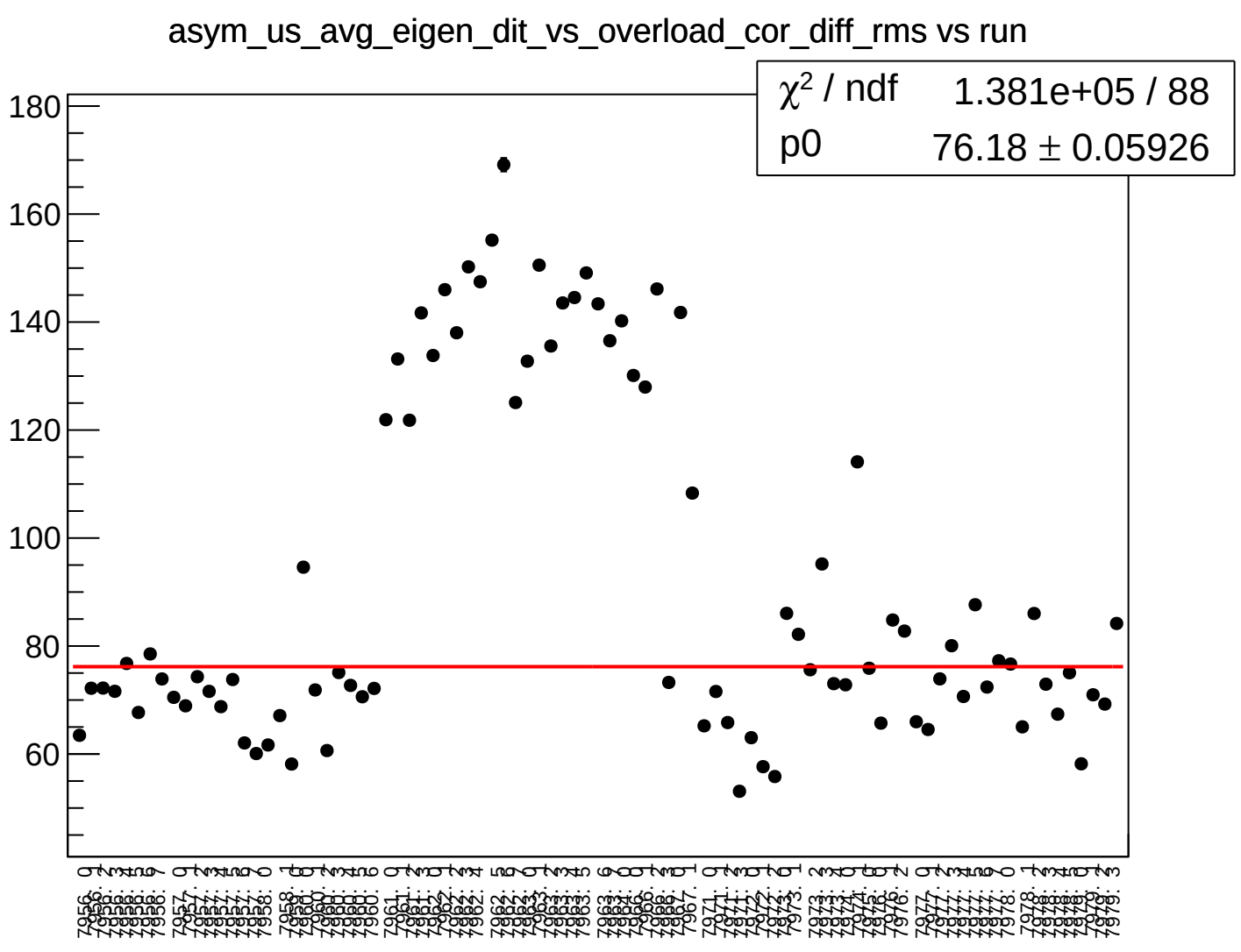

pull1D
Entries 89
Mean 0.05449
Std Dev 0.9321

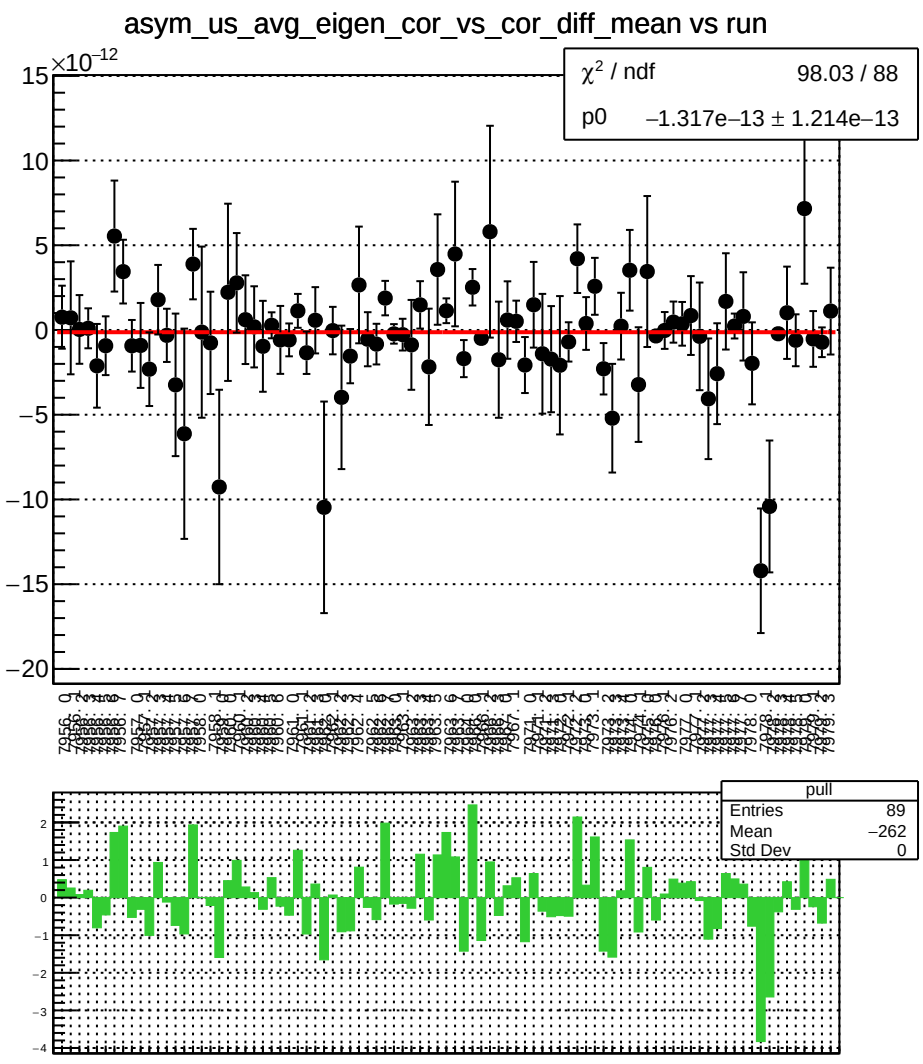

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.622e+05 / 88
p0 69.48 ± 0.05445
180
160
140
120
100
80
60
40

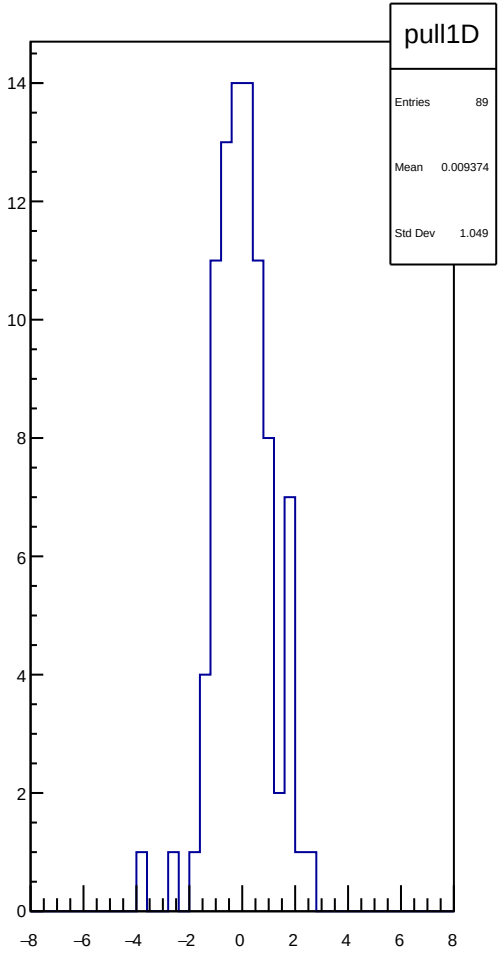

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.59 / 88
p0 −0.1118 ± 0.077
pull
Entries 89
Mean −7.477
Std Dev 0
pull1D
Entries 89
Mean 0.05449
Std Dev 0.9321

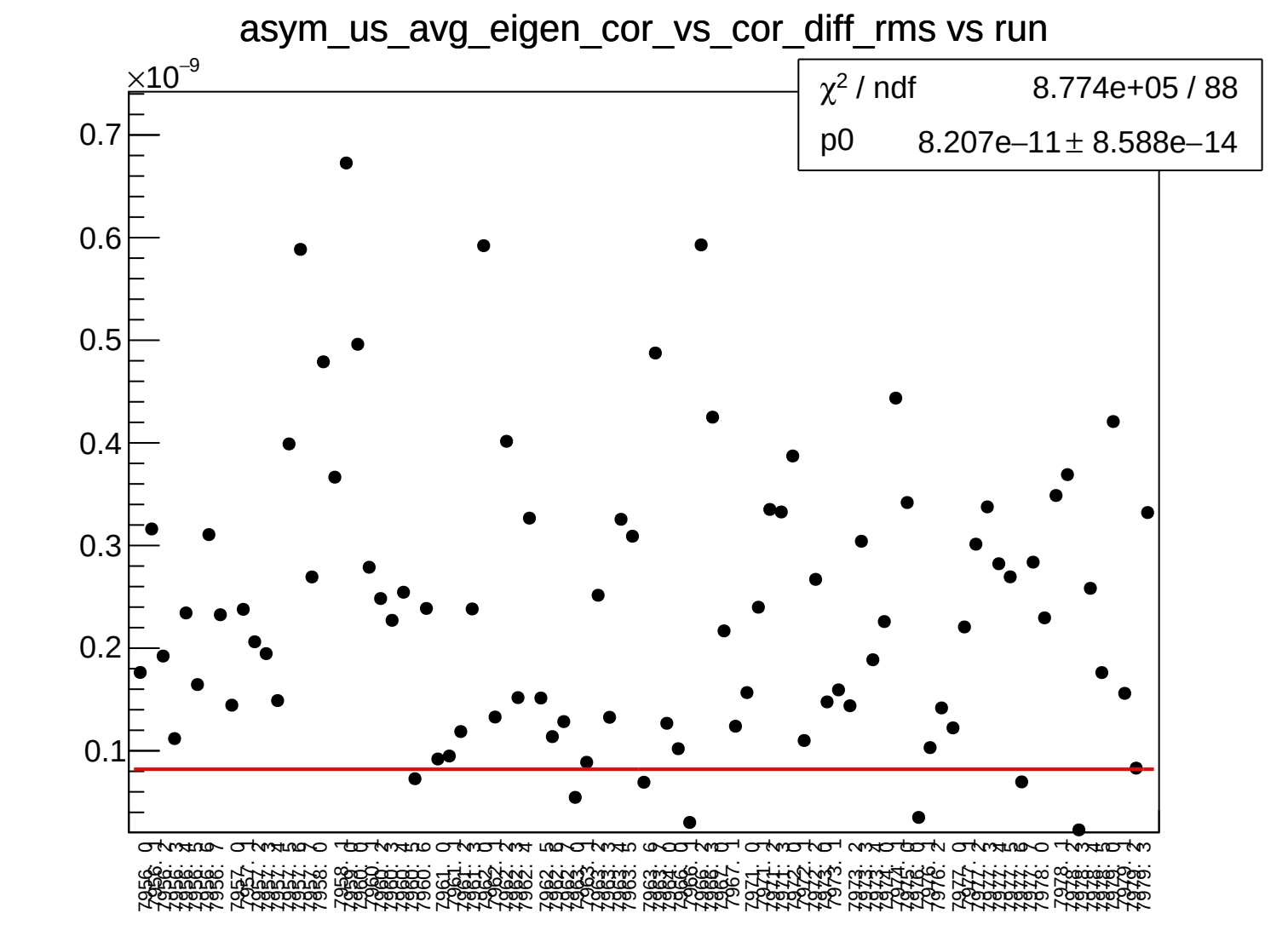

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.622e+05 / 88
p0 69.48 ± 0.05445
180
160
140
120
100
80
60
40

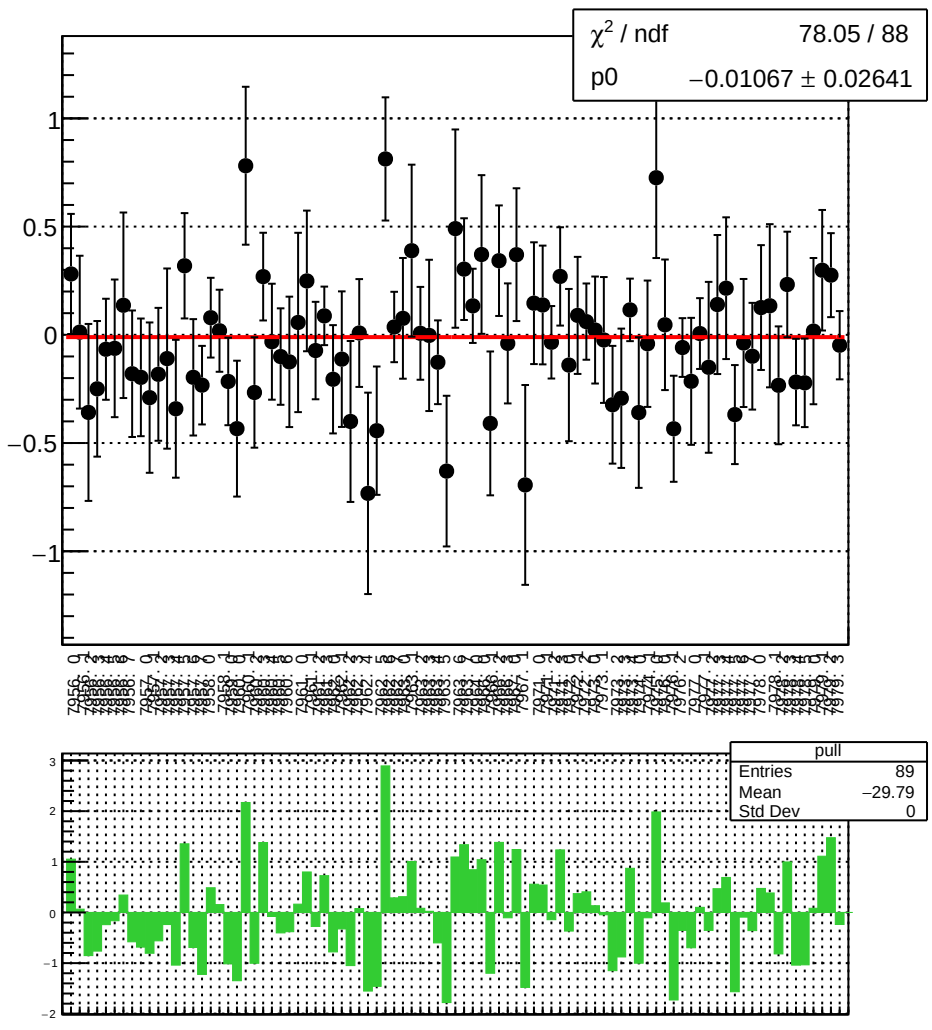

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 74.17 / 88
p0 −0.07717 ± 0.0838
pull
Entries 89
Mean −30.75
Std Dev 0
pull1D
Entries 89
Mean 0.04553
Std Dev 0.9118

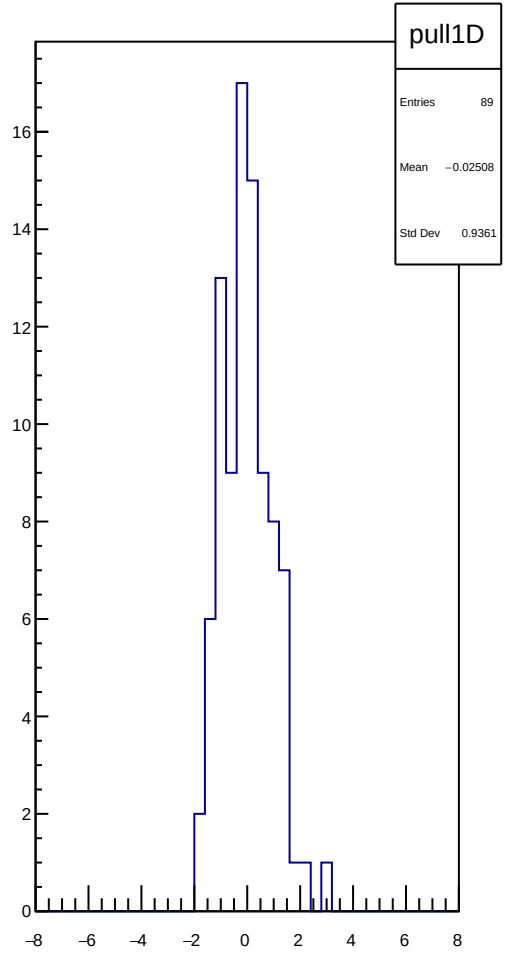

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.381e+05 / 88
p0 76.18 ± 0.05926
180
160
140
120
100
80
60

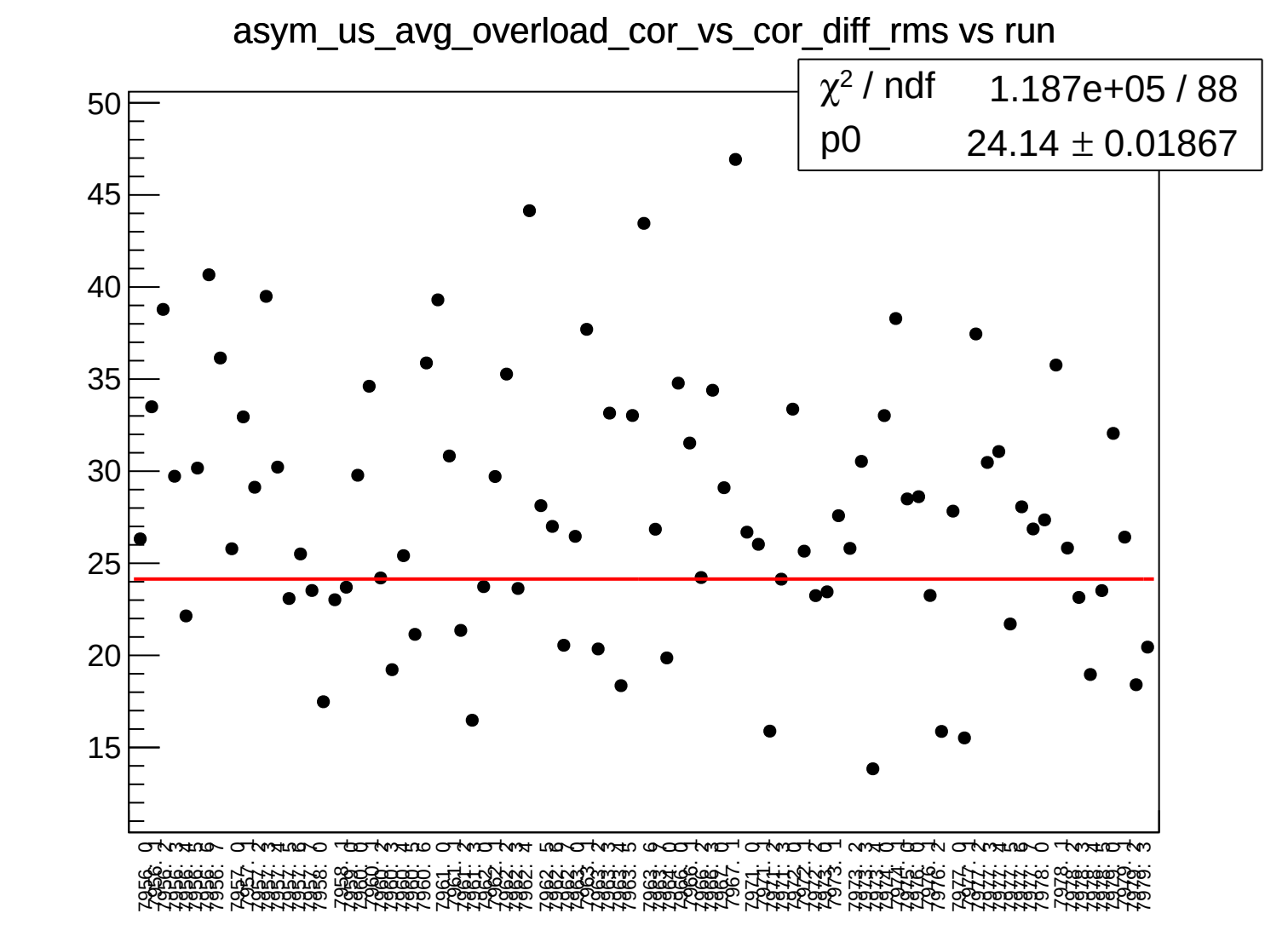

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.03 / 88
p0 −1.317e−13 ± 1.214e−13
pull
Entries 89
Mean −262
Std Dev 0

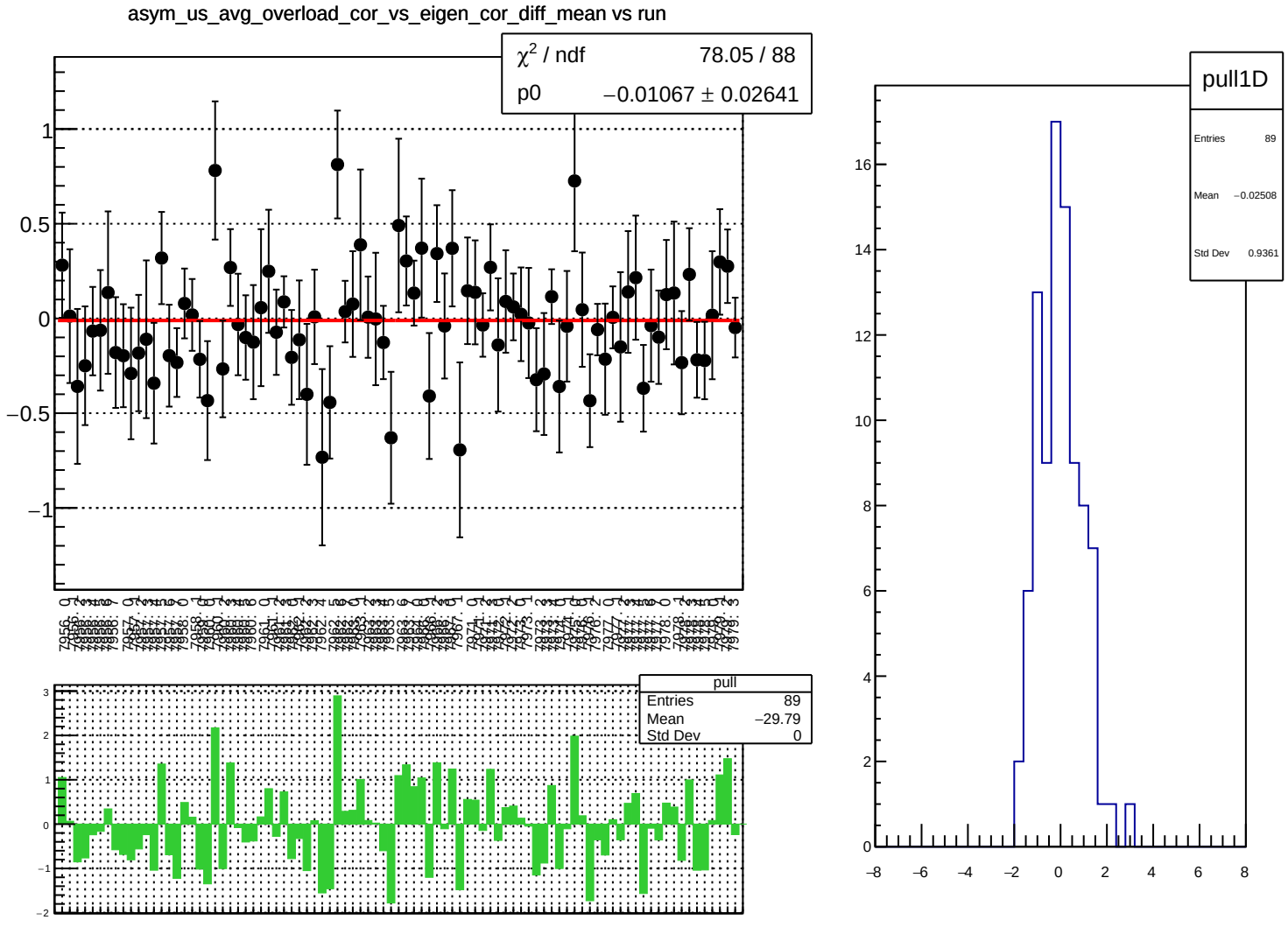

pull1D
Entries 89
Mean 0.009374
Std Dev 1.049

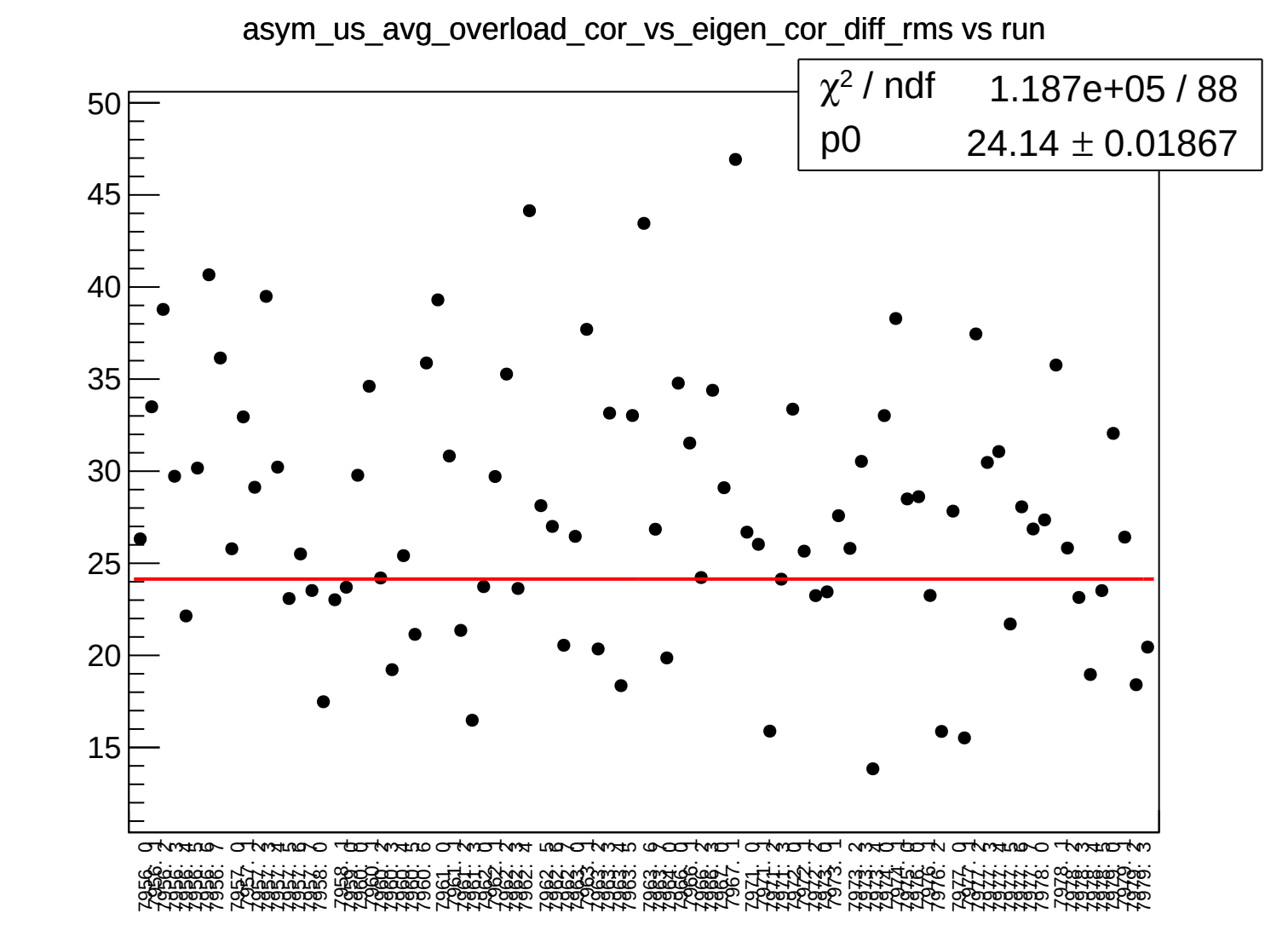

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.774e+05 / 88
p0 8.207e−11 ± 8.588e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

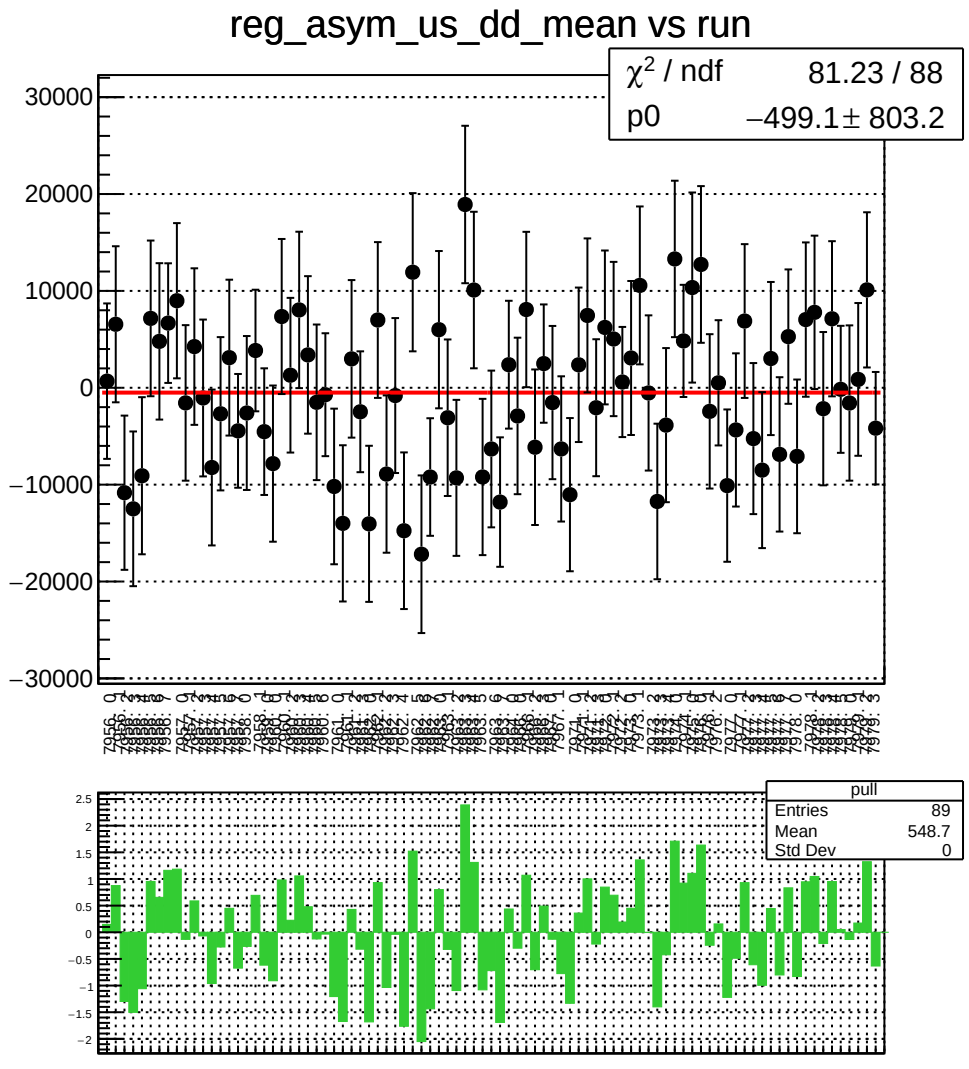

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 78.05 / 88
p0 −0.01067 ± 0.02641
pull
Entries 89
Mean −29.79
Std Dev 0

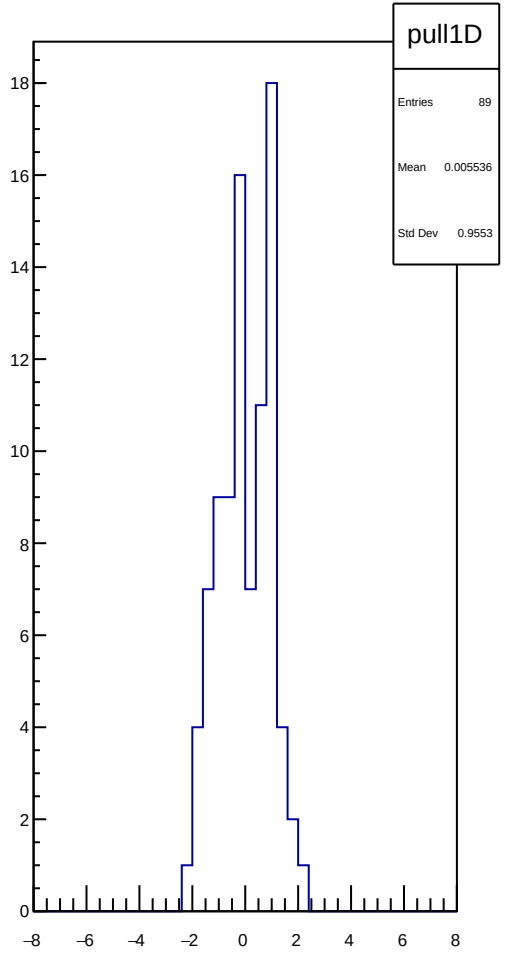

pull1D
Entries 89
Mean −0.02508
Std Dev 0.9361

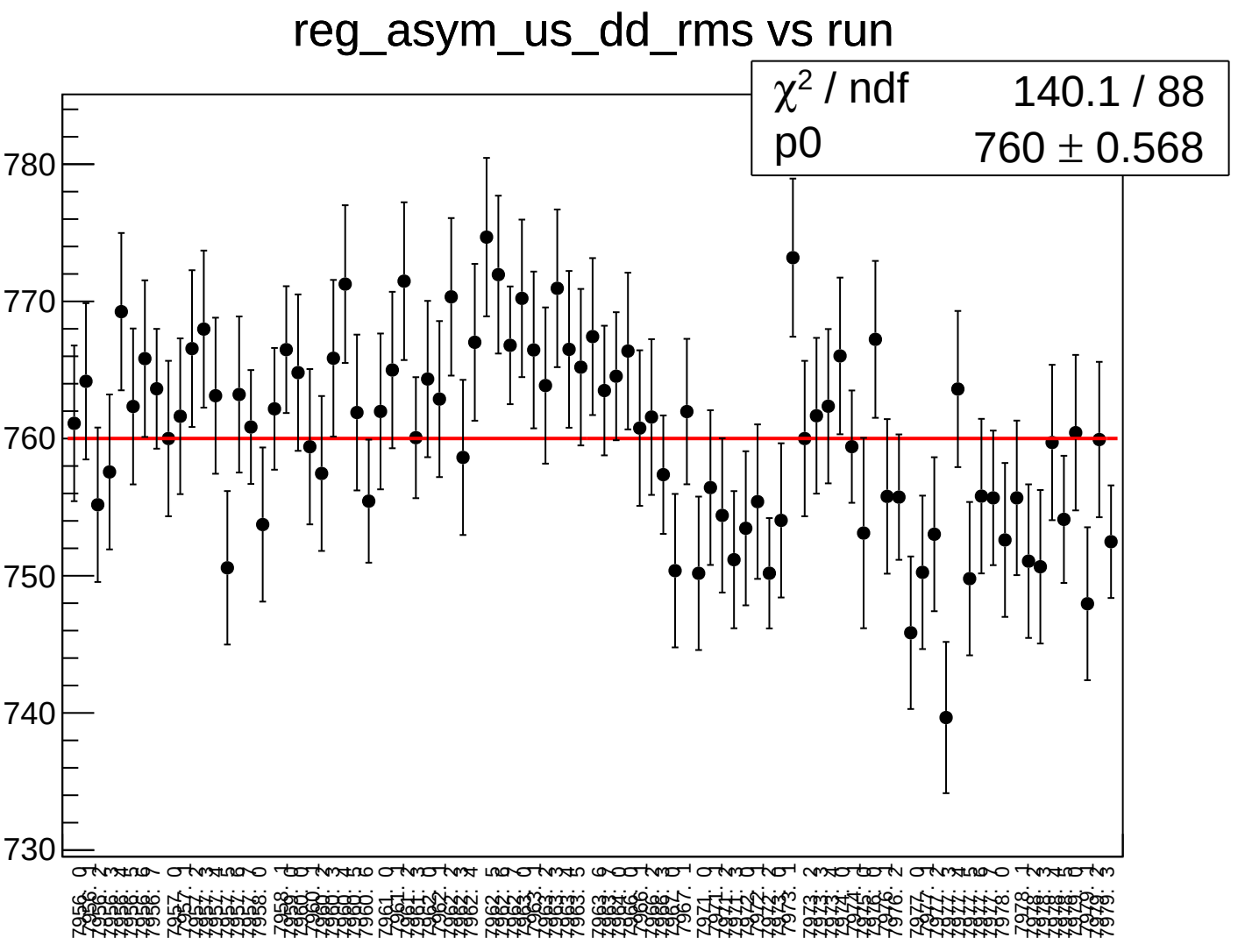

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.187e+05 / 88
p0 24.14 ± 0.01867
50
45
40
35
30
25
20
15

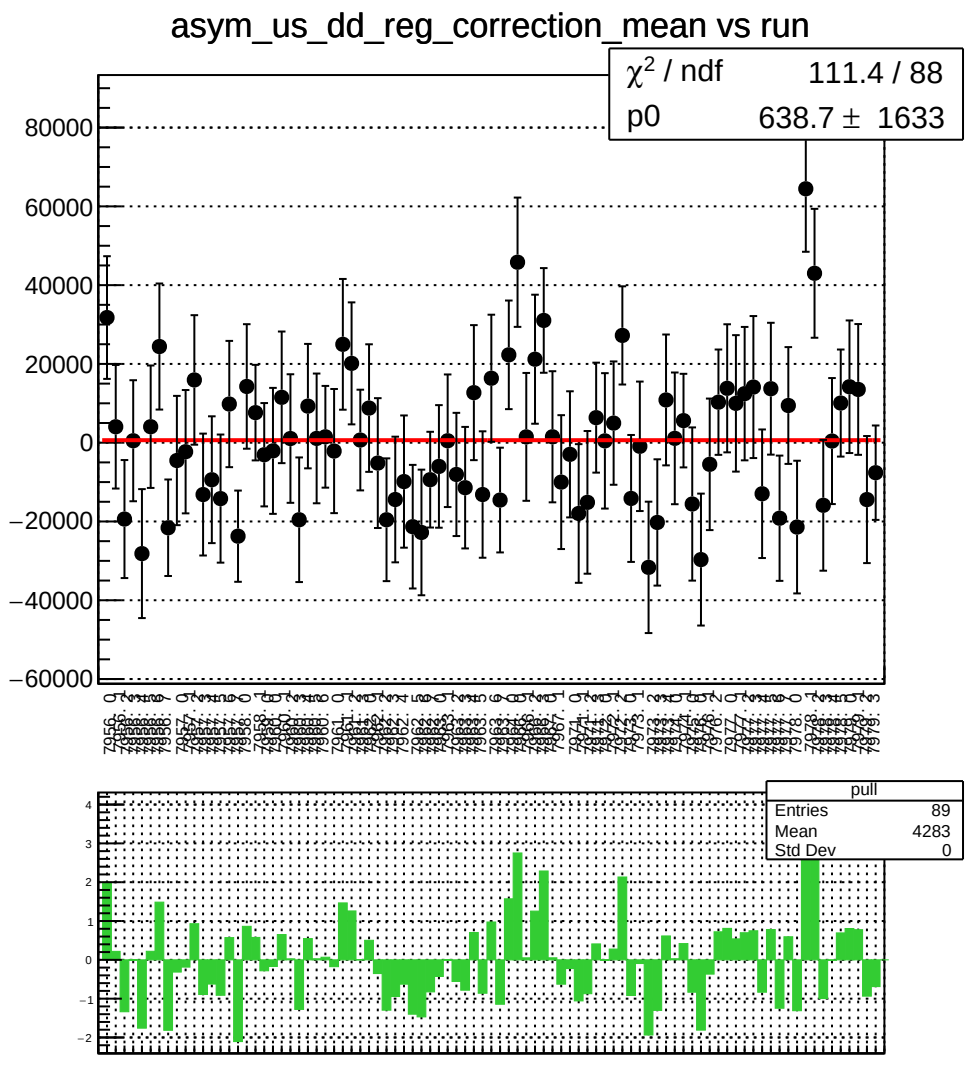

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.05 / 88
p0 −0.01067 ± 0.02641
pull
Entries 89
Mean −29.79
Std Dev 0
pull1D
Entries 89
Mean −0.02508
Std Dev 0.9361

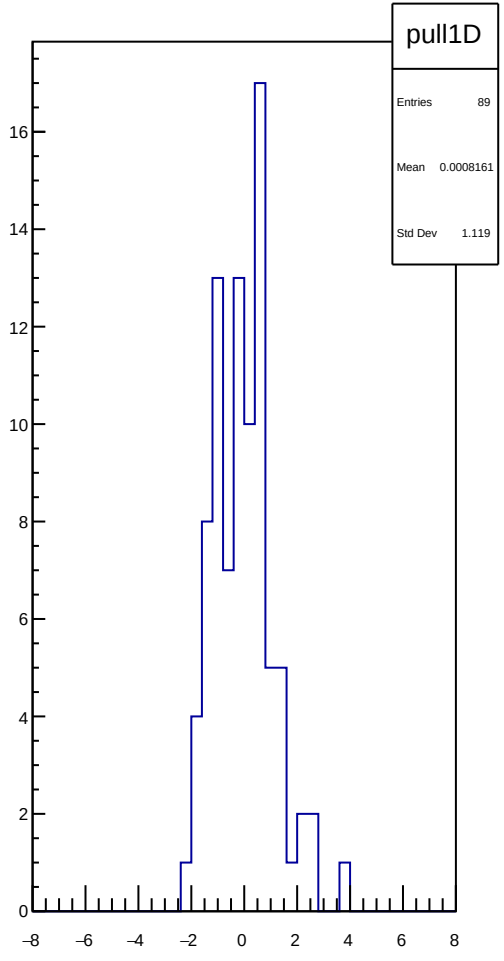

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.187e+05 / 88
p0 24.14 ± 0.01867
50
45
40
35
30
25
20
15

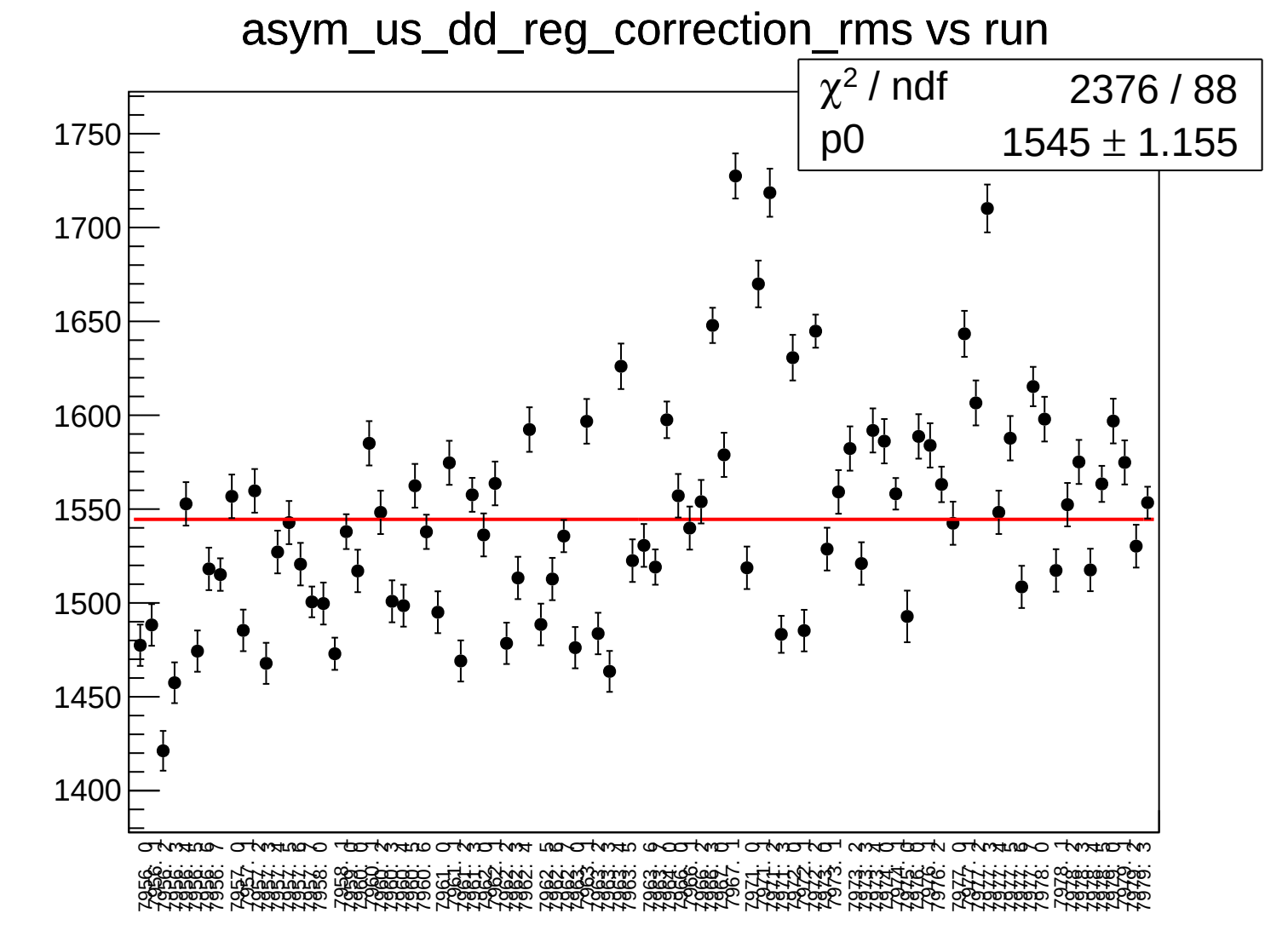

reg_asym_us_dd_mean vs run
χ² / ndf 81.23 / 88
p0 −499.1± 803.2
pull
Entries 89
Mean 548.7
Std Dev 0

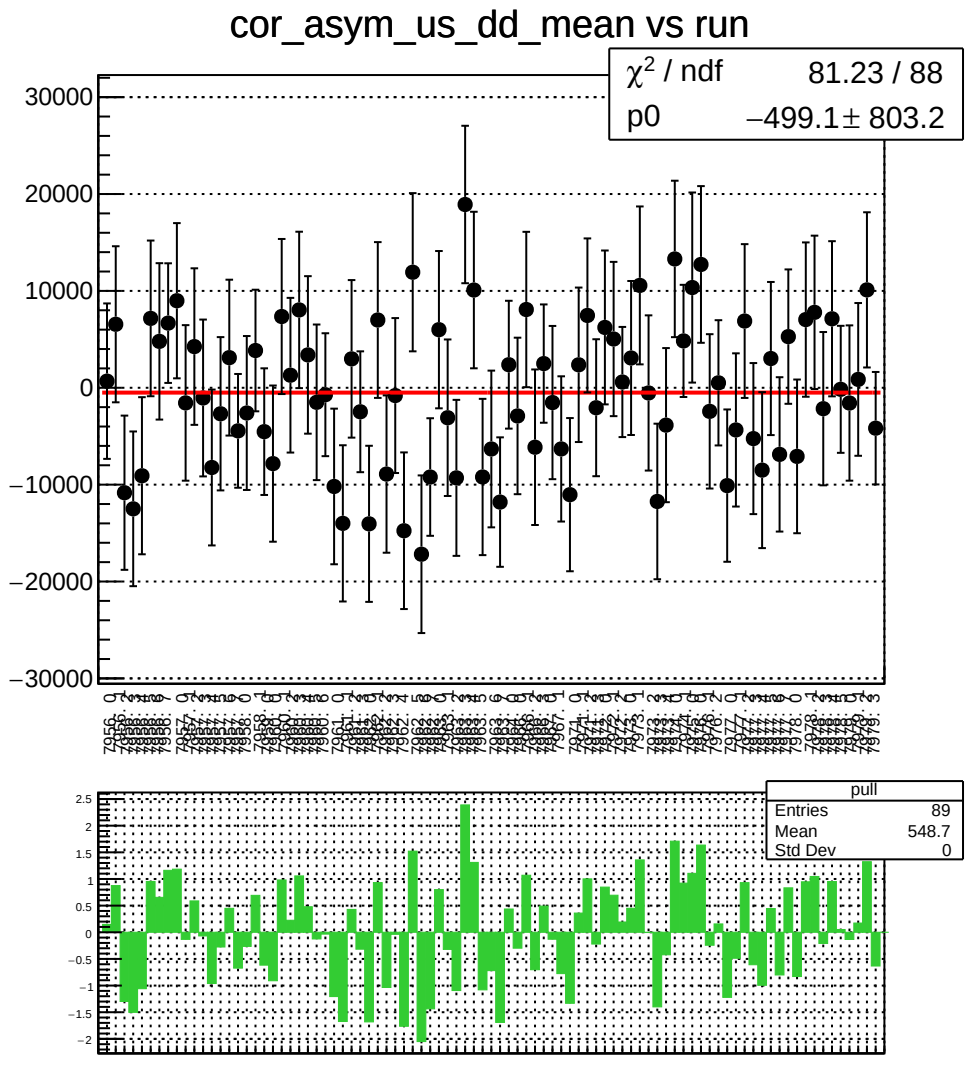

pull1D
Entries 89
Mean 0.005536
Std Dev 0.9553

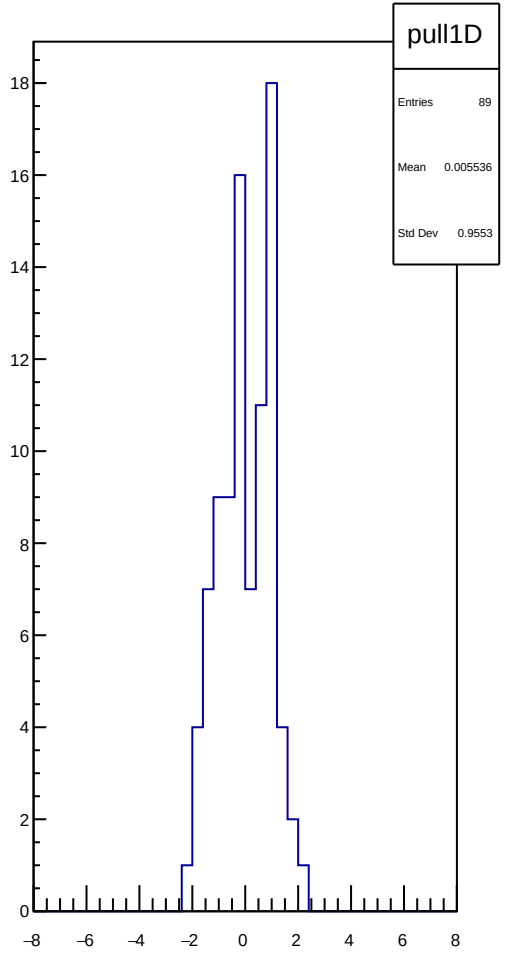

reg_asym_us_dd_rms vs run
χ² / ndf 140.1 / 88
p0 760 ± 0.568
780
770
760
750
740
730

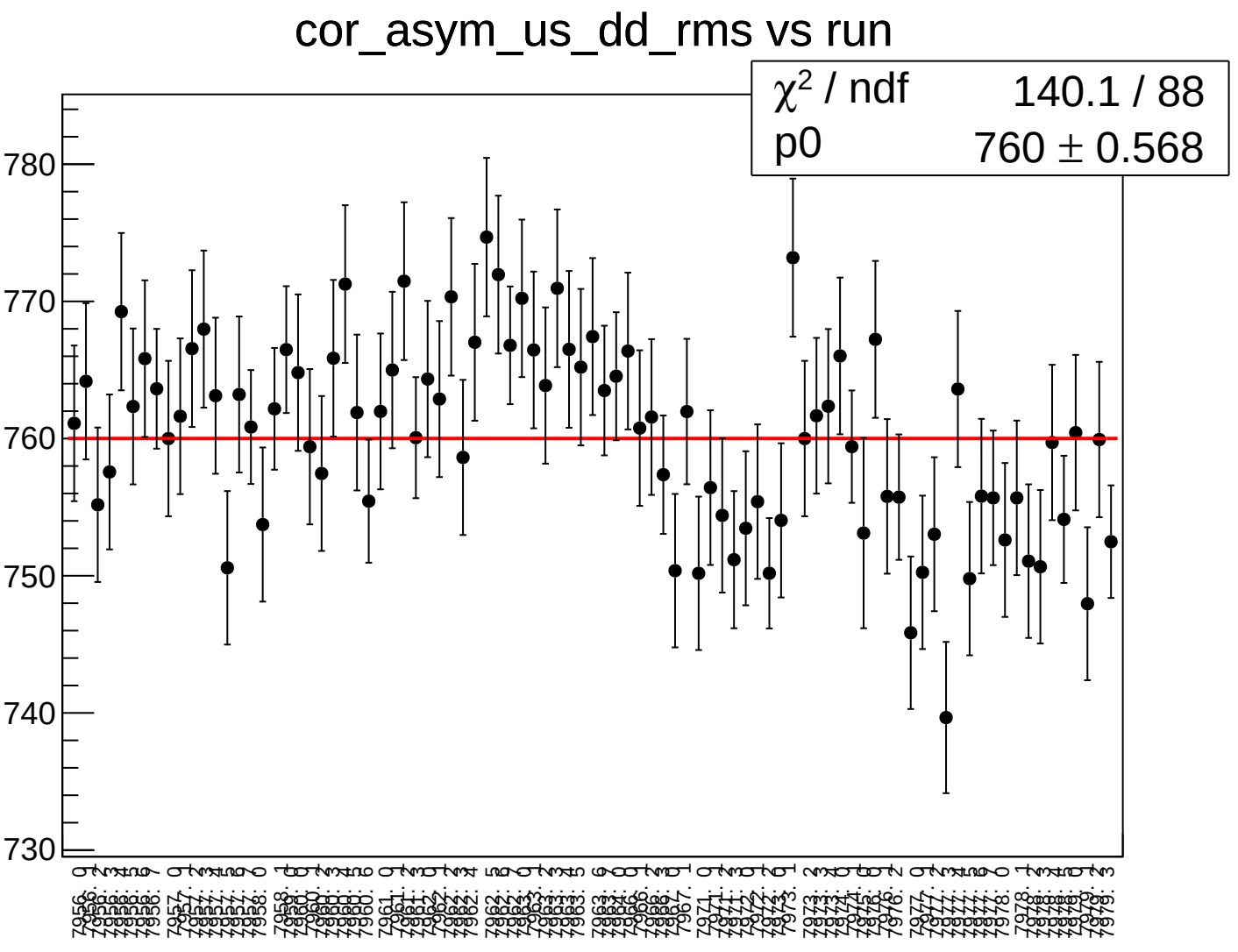

asym_us_dd_reg_correction_mean vs run
χ² / ndf 111.4 / 88
p0 638.7 ± 1633
pull
Entries 89
Mean 4283
Std Dev 0

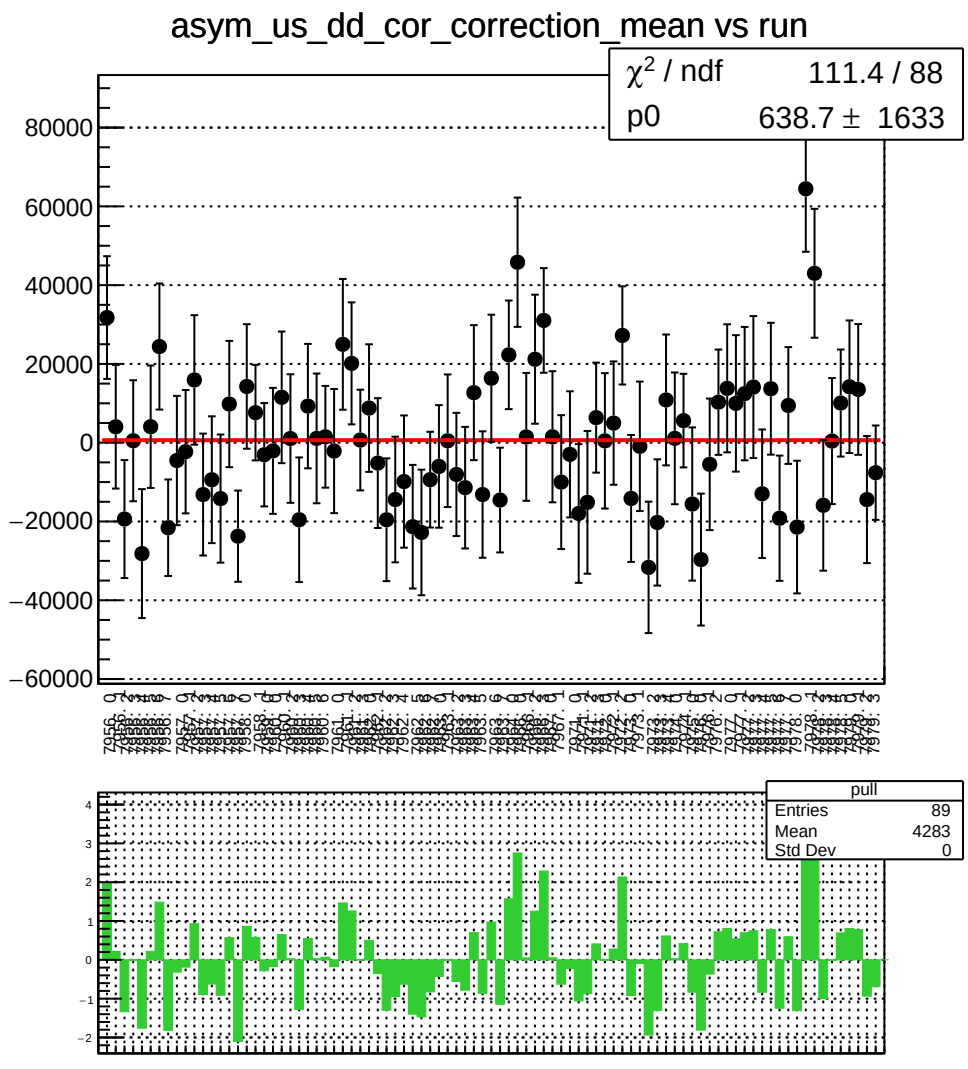

pull1D
Entries 89
Mean 0.0008161
Std Dev 1.119

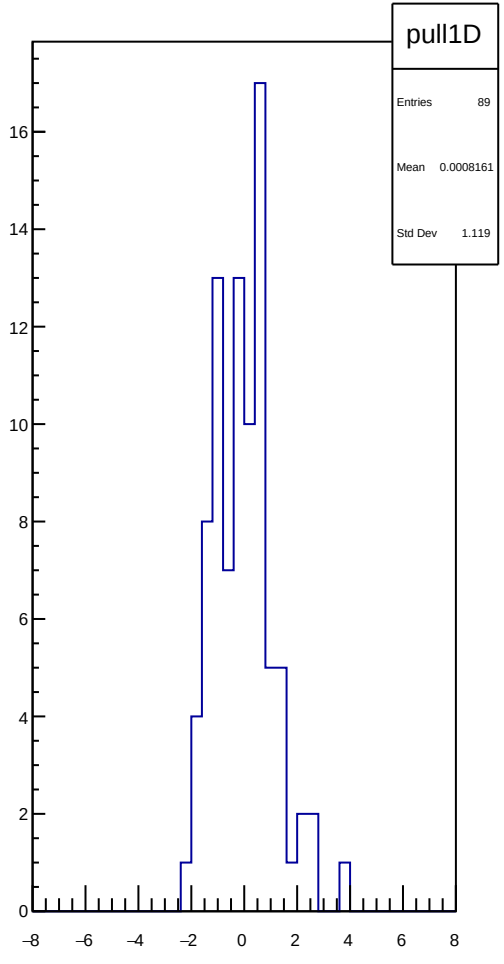

asym_us_dd_reg_correction_rms vs run
χ² / ndf 2376 / 88
p0 1545 ± 1.155
1750
1700
1650
1600
1550
1500
1450
1400

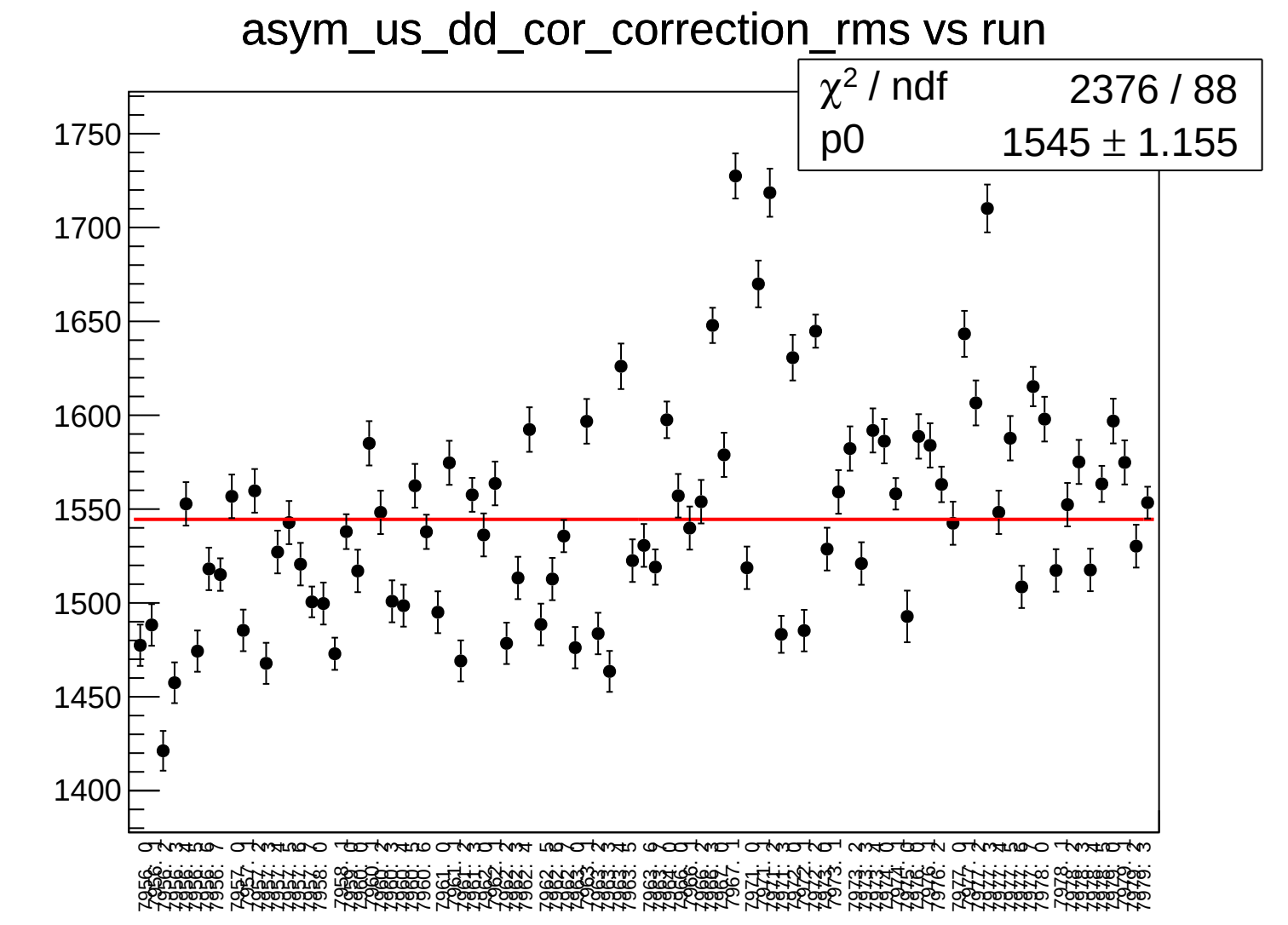

cor_asym_us_dd_mean vs run
χ² / ndf 81.23 / 88
p0 −499.1± 803.2
pull
Entries 89
Mean 548.7
Std Dev 0

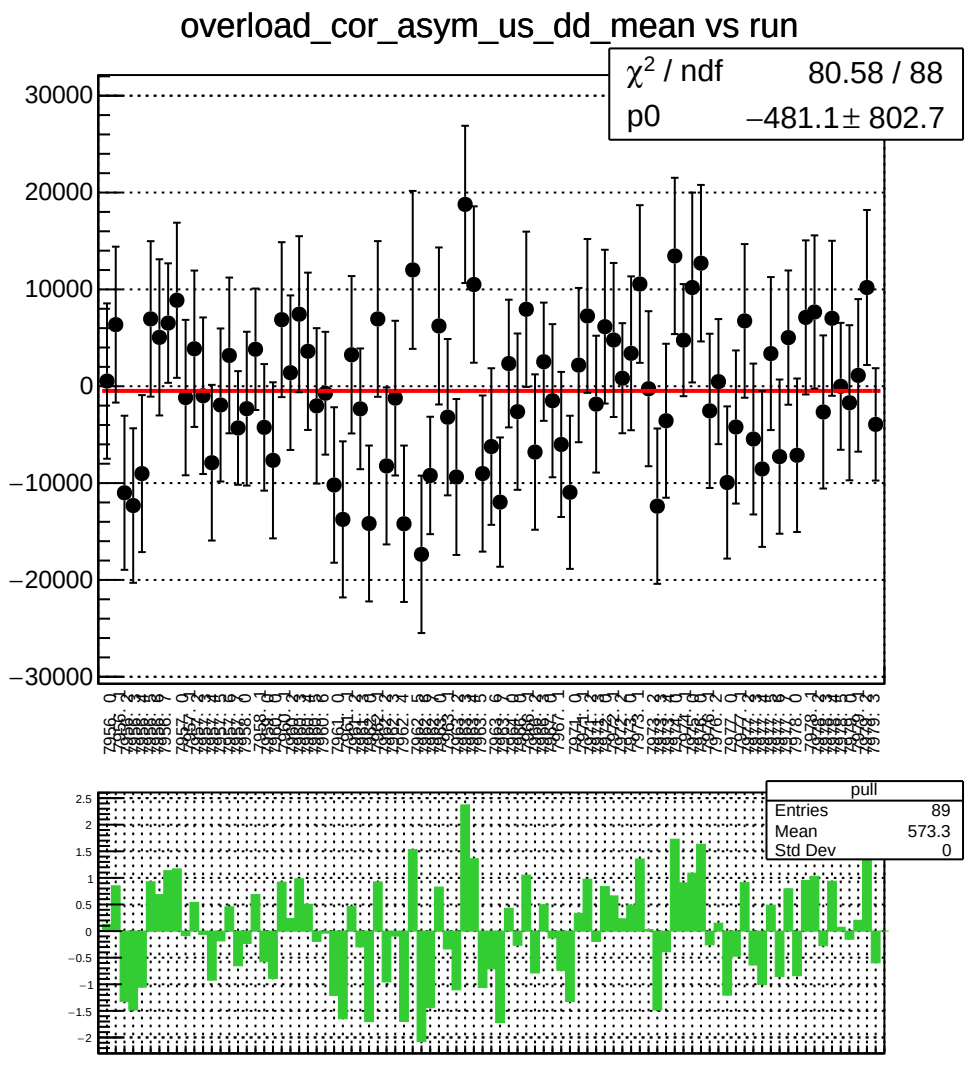

pull1D
Entries 89
Mean 0.005536
Std Dev 0.9553

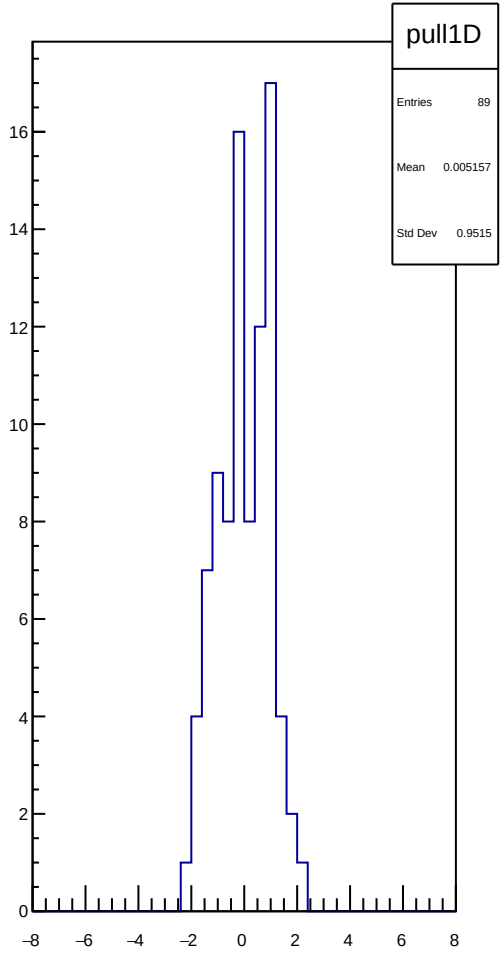

cor_asym_us_dd_rms vs run
$\chi^2$ / ndf 140.1 / 88
p0 760 ± 0.568
780
770
760
750
740
730

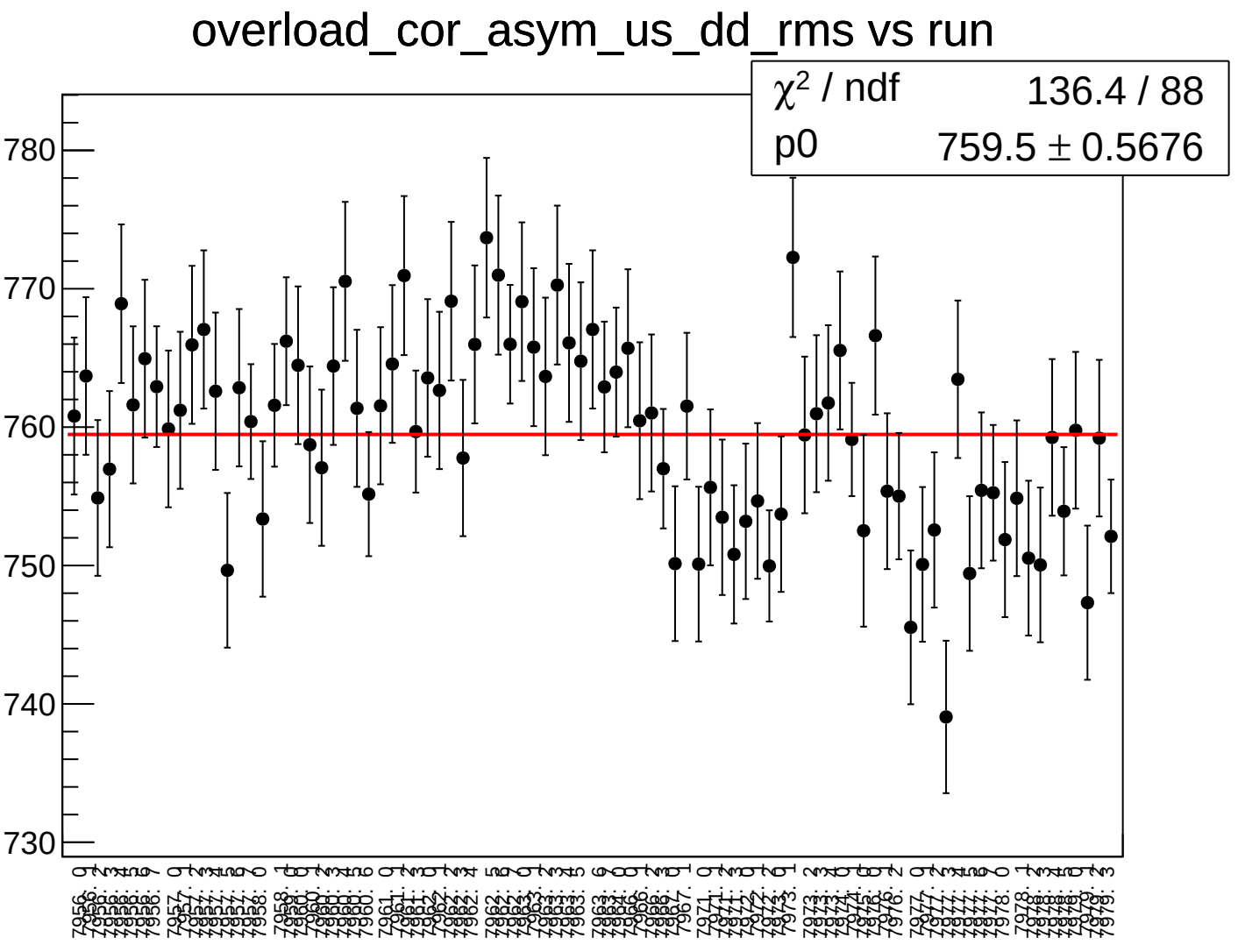

asym_us_dd_cor_correction_mean vs run
χ² / ndf 111.4 / 88
p0 638.7 ± 1633
pull
Entries 89
Mean 4283
Std Dev 0

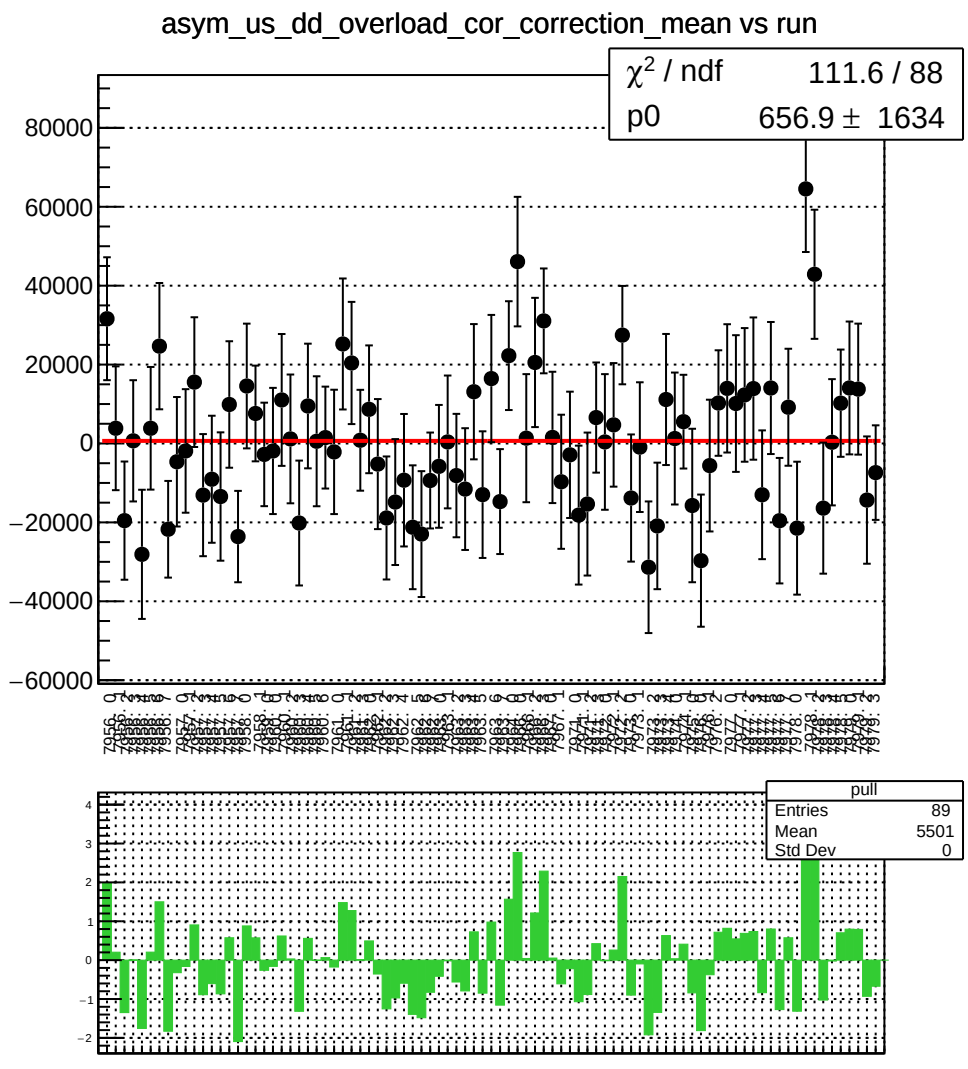

pull1D
Entries 89
Mean 0.0008161
Std Dev 1.119

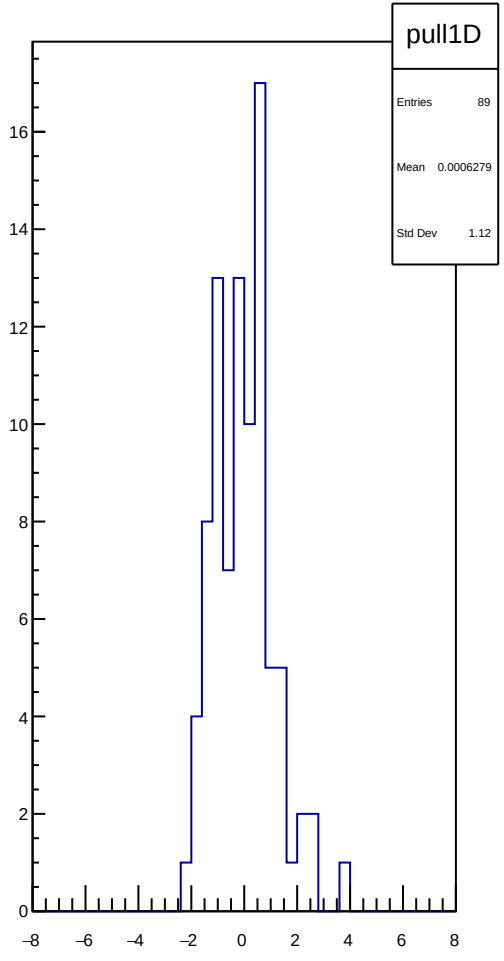

asym_us_dd_cor_correction_rms vs run
χ² / ndf 2376 / 88
p0 1545 ± 1.155
1750
1700
1650
1600
1550
1500
1450
1400

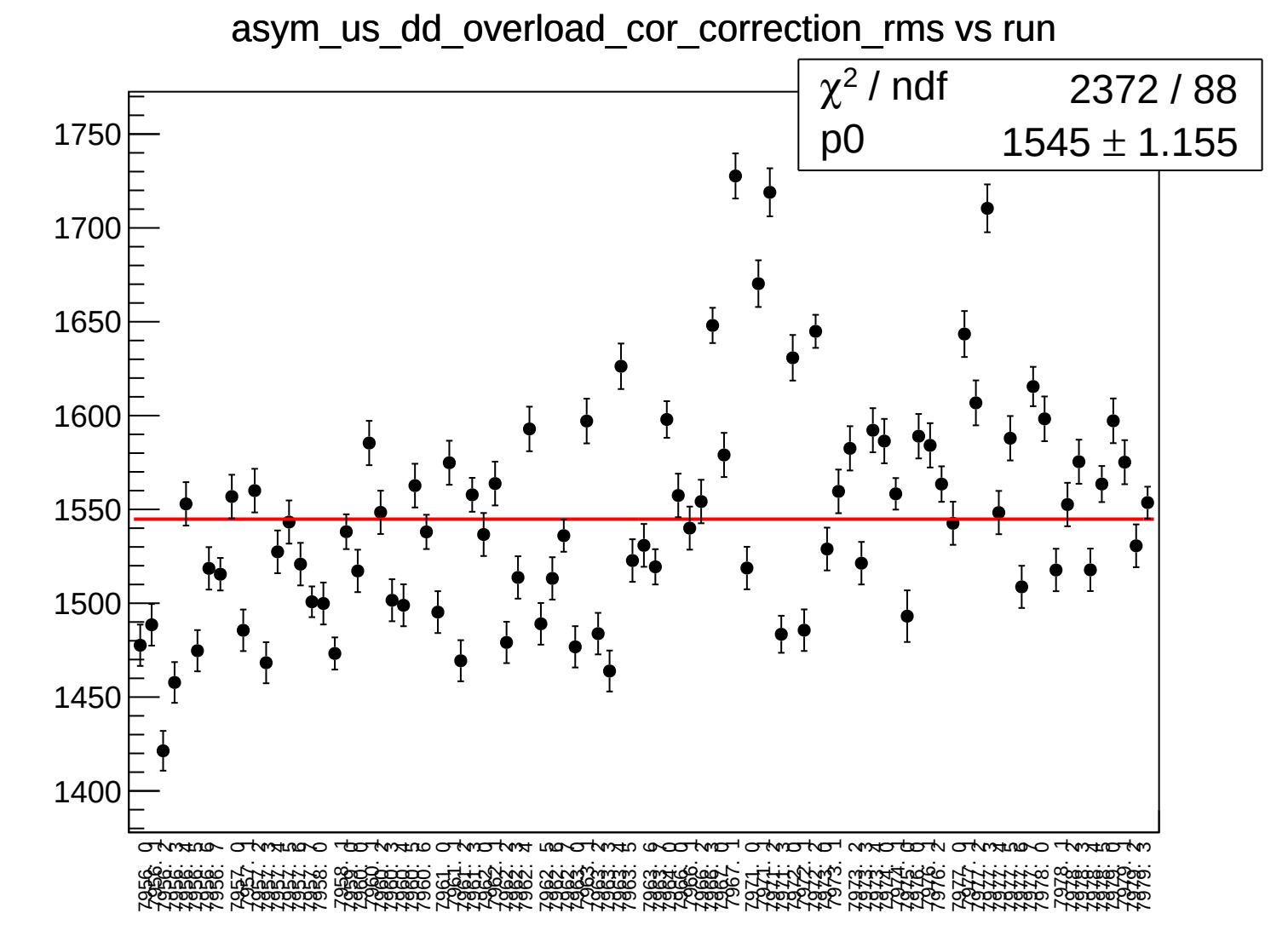

overload_cor_asym_us_dd_mean vs run
χ² / ndf 80.58 / 88
p0 −481.1 ± 802.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 573.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

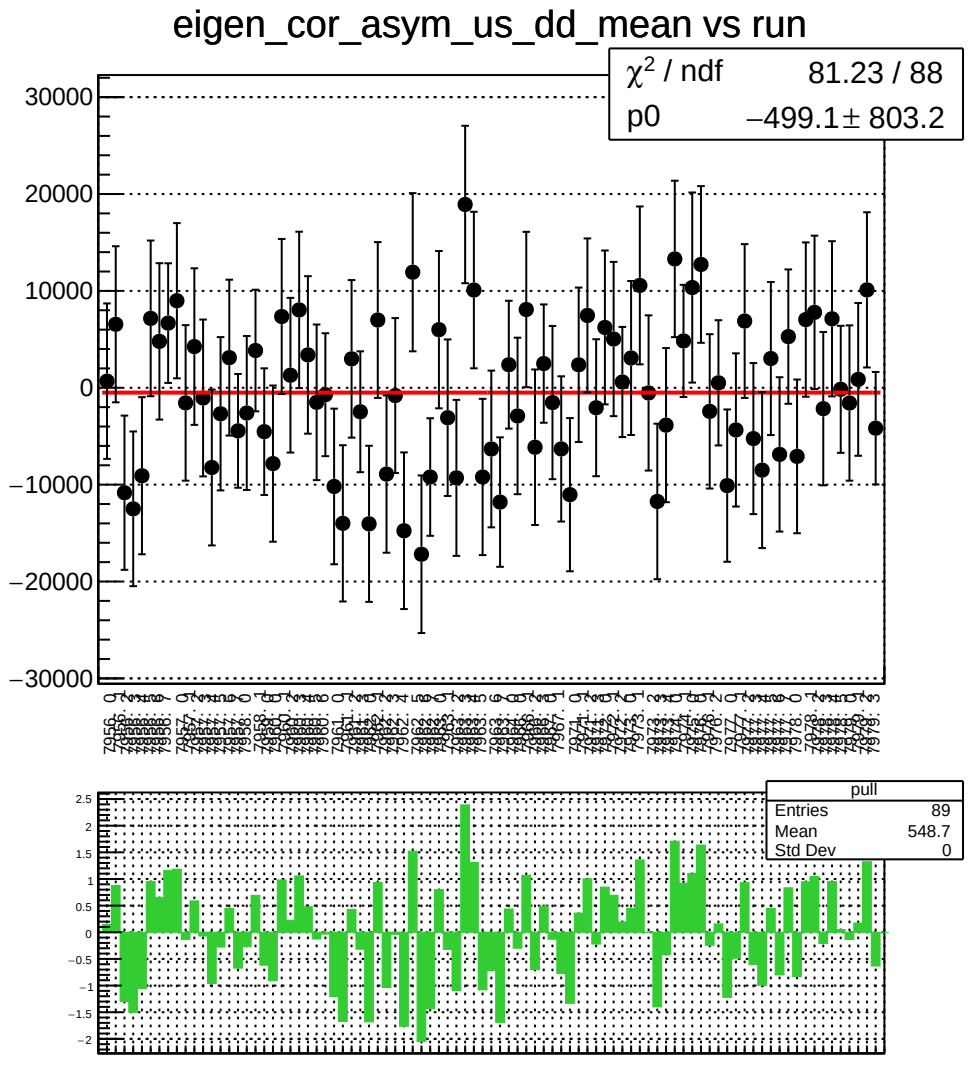

pull1D
Entries 89
Mean 0.005157
Std Dev 0.9515
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

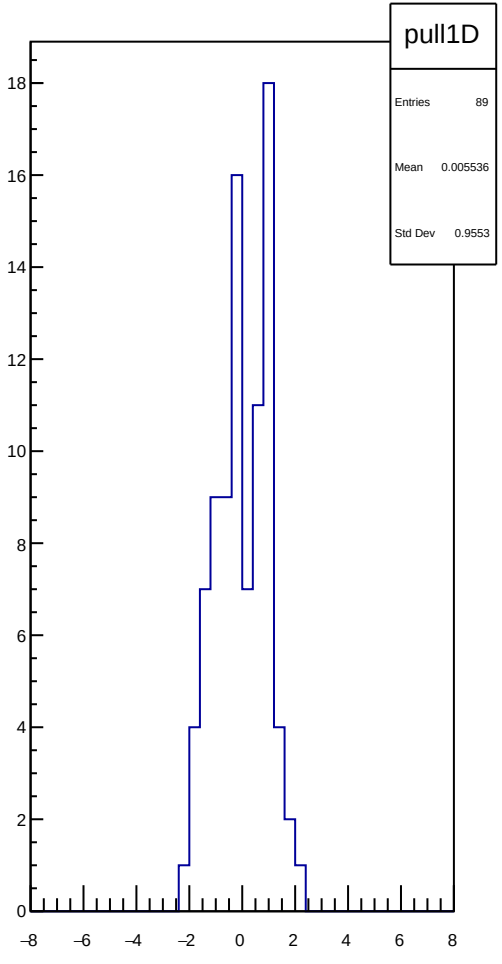

overload_cor_asym_us_dd_rms vs run
χ² / ndf 136.4 / 88
p0 759.5 ± 0.5676
780
770
760
750
740
730

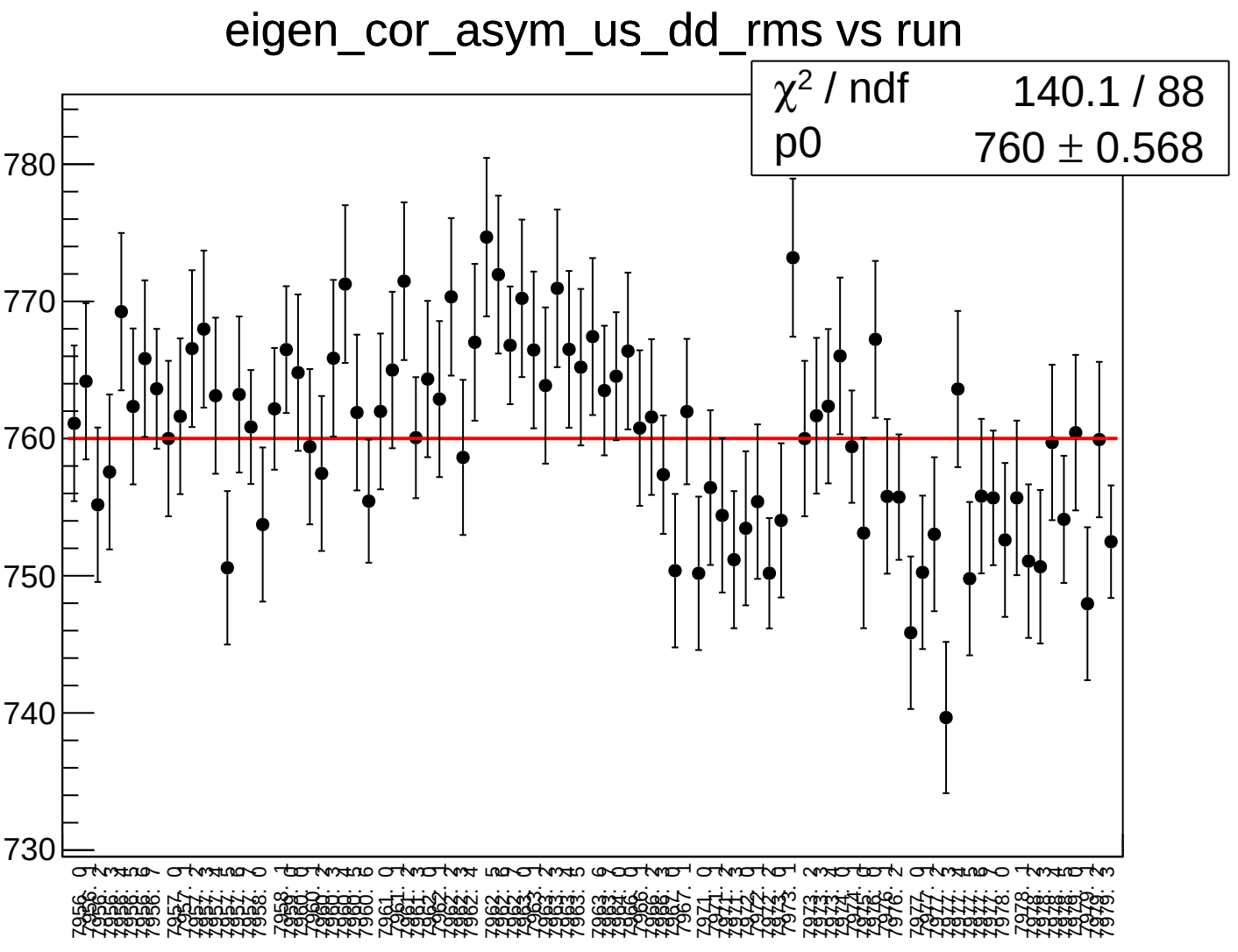

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 111.6 / 88
p0 656.9 ± 1634
pull
Entries 89
Mean 5501
Std Dev 0

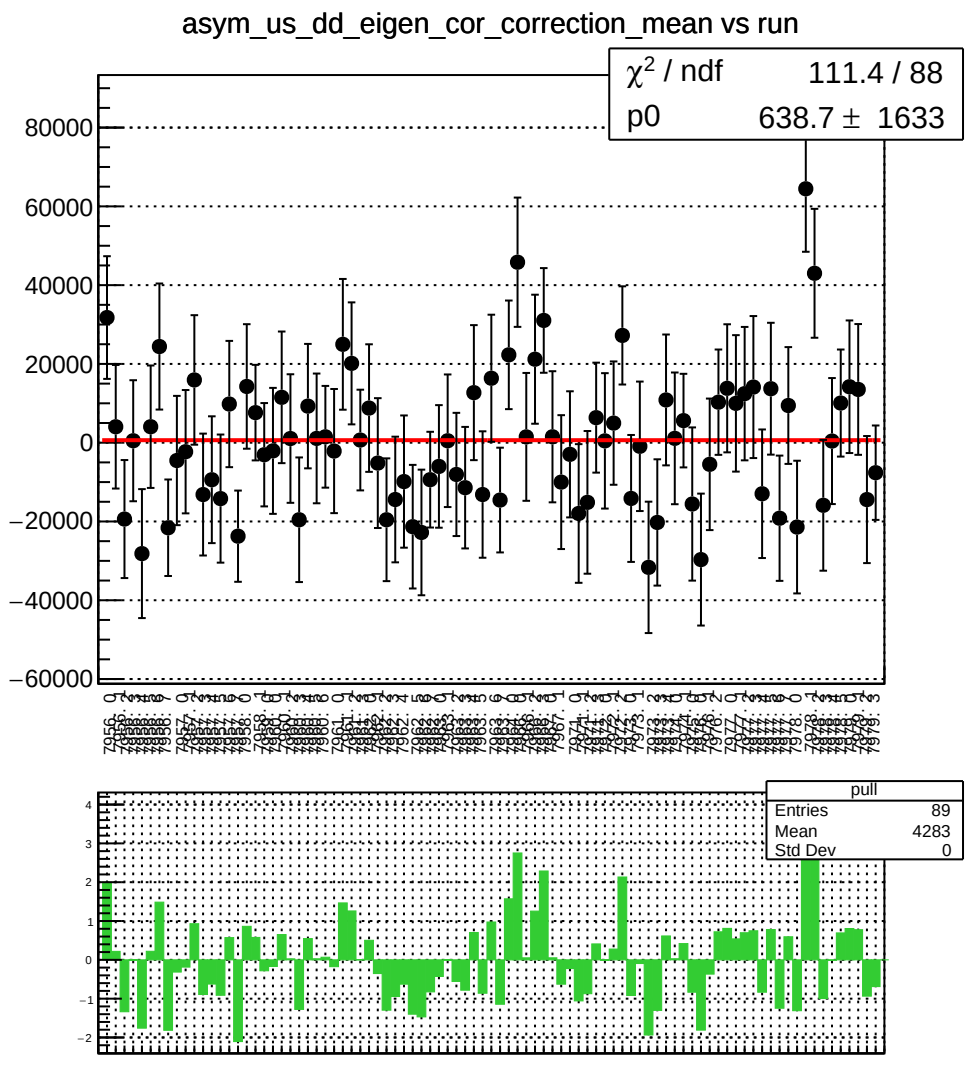

pull1D
Entries 89
Mean 0.0006279
Std Dev 1.12

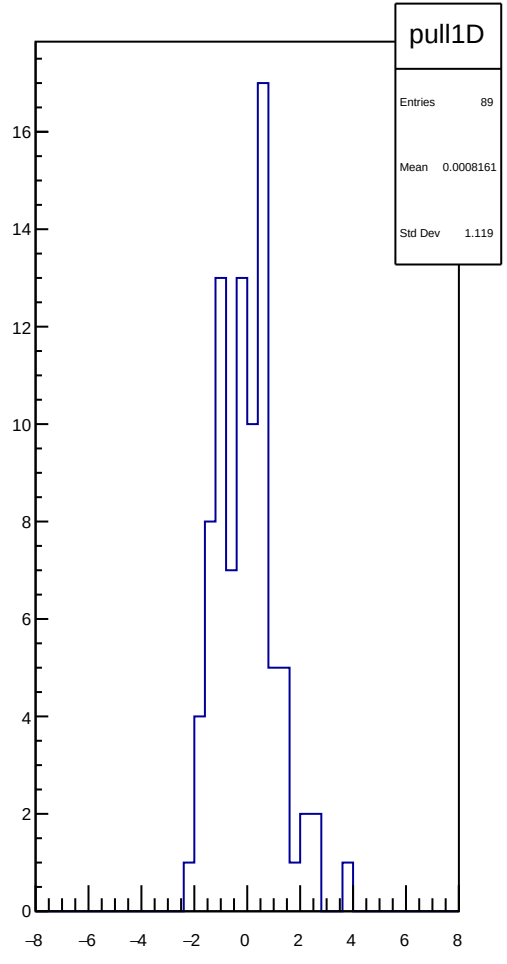

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 2372 / 88
p0 1545 ± 1.155
1750
1700
1650
1600
1550
1500
1450
1400

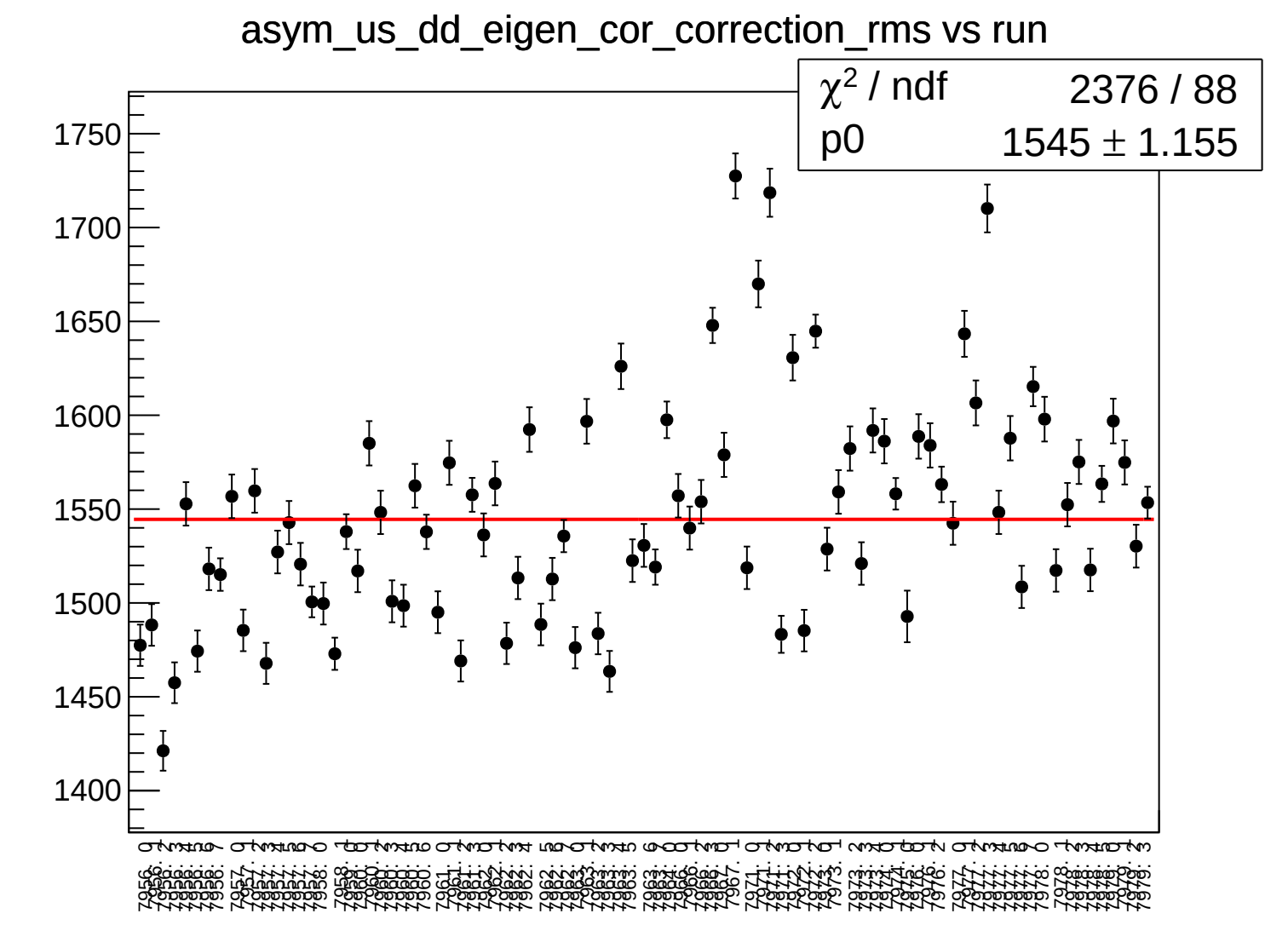

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 81.23 / 88
p0 −499.1± 803.2
pull
Entries 89
Mean 548.7
Std Dev 0

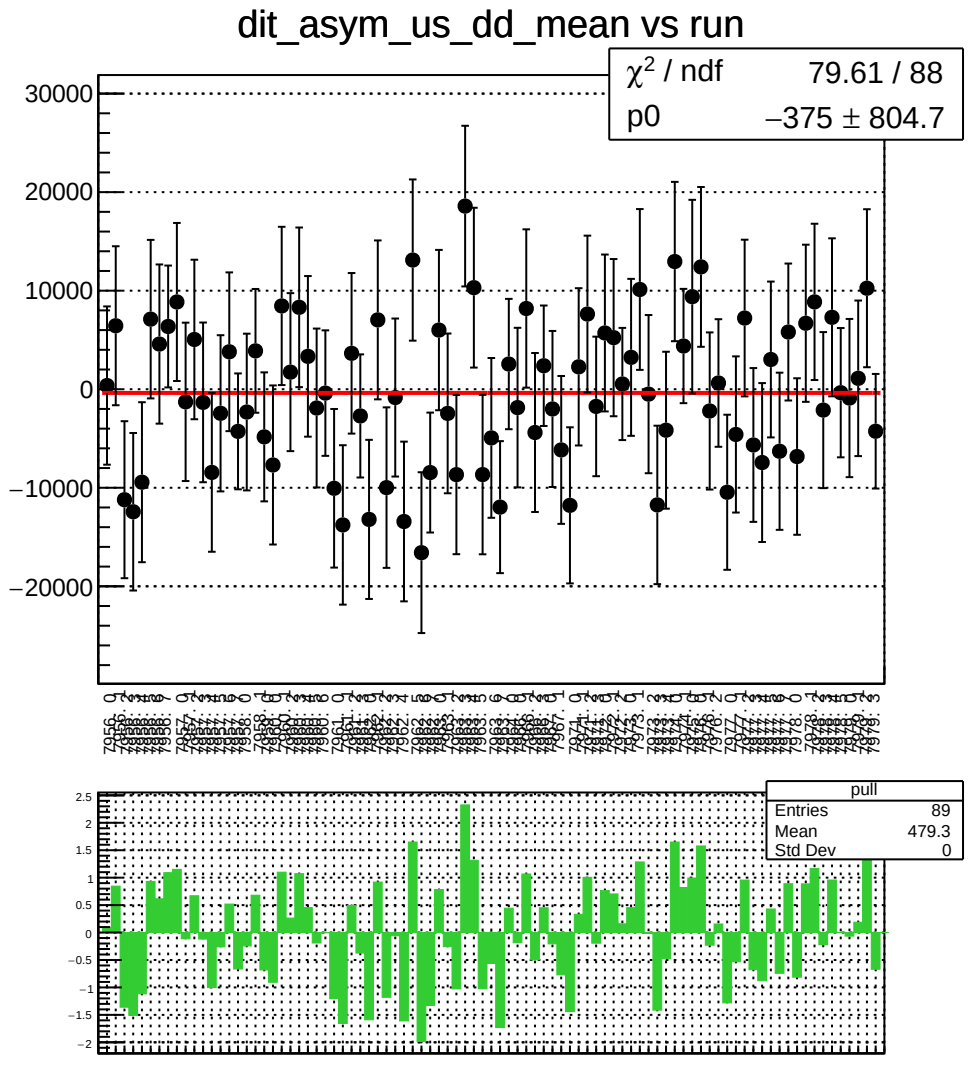

pull1D
Entries 89
Mean 0.005536
Std Dev 0.9553

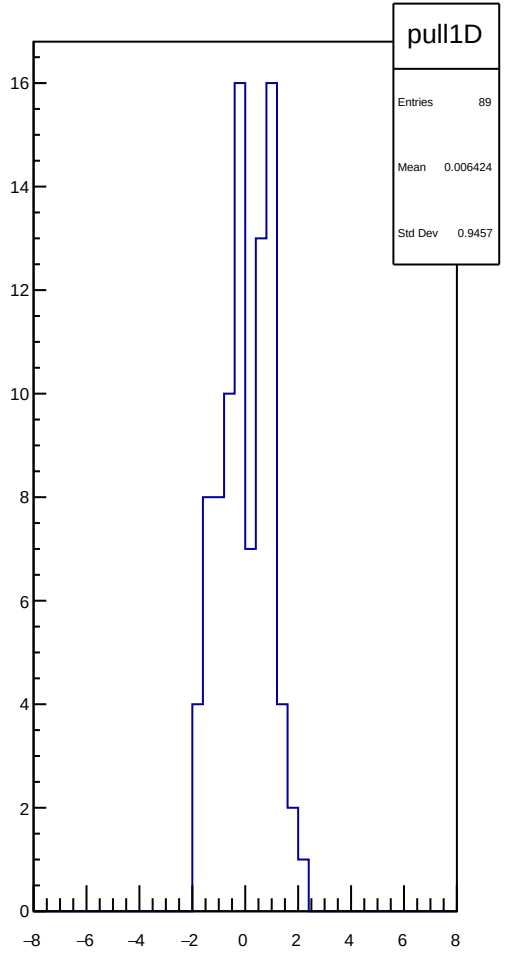

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 140.1 / 88
p0 760 ± 0.568
780
770
760
750
740
730

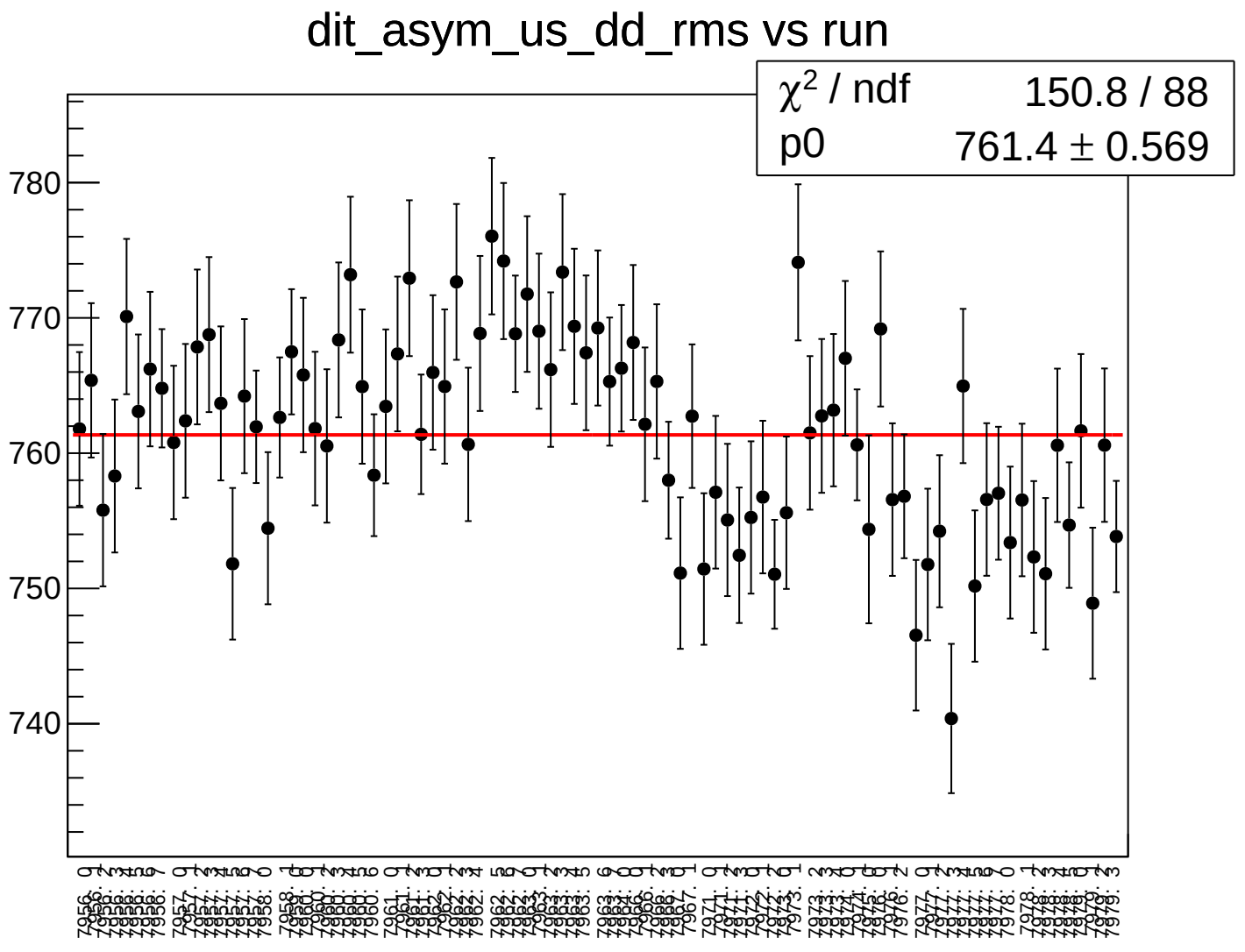

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 111.4 / 88
p0 638.7 ± 1633
pull
Entries 89
Mean 4283
Std Dev 0

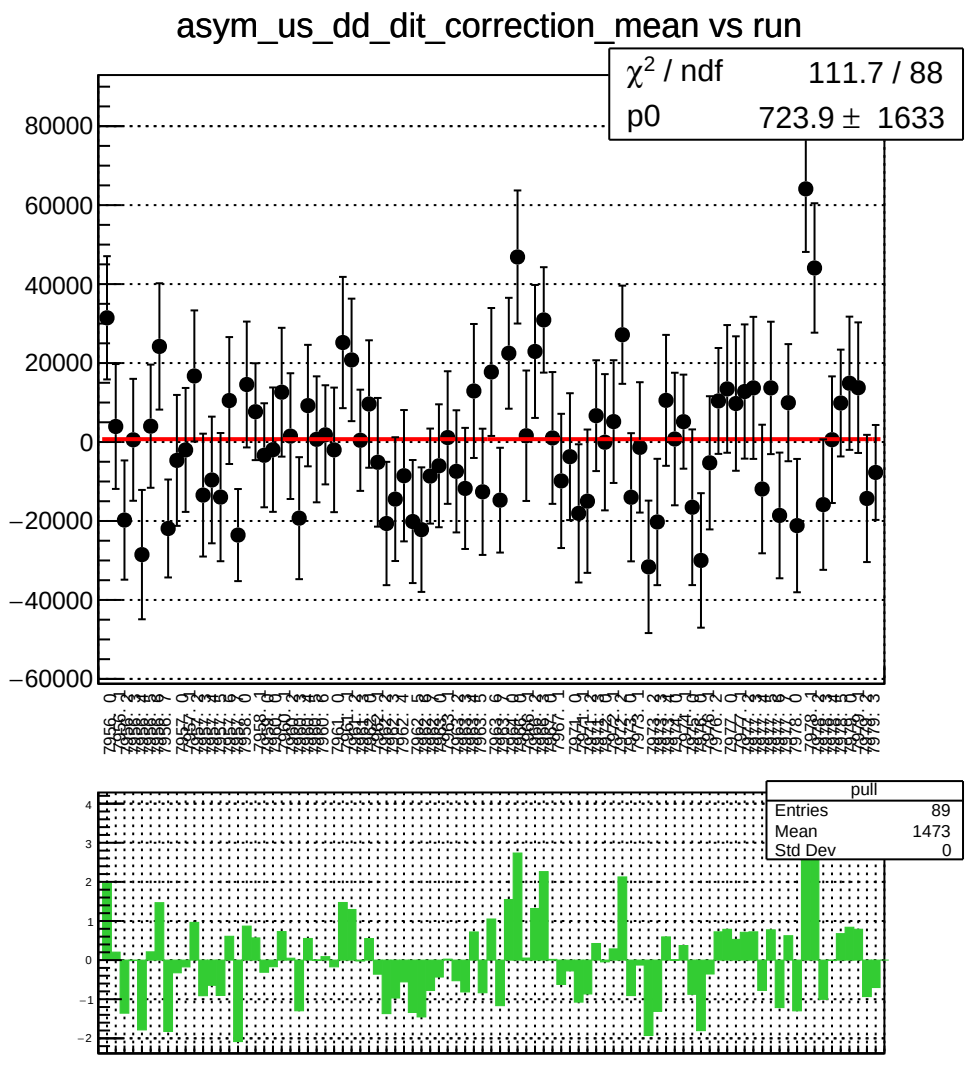

pull1D
Entries 89
Mean 0.0008161
Std Dev 1.119

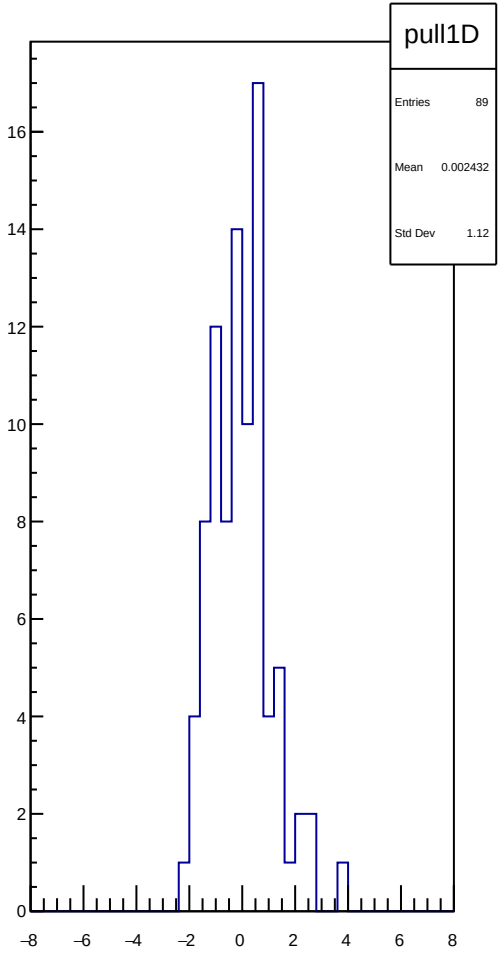

asym_us_dd_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 2376 / 88
p0 1545 ± 1.155
1750
1700
1650
1600
1550
1500
1450
1400

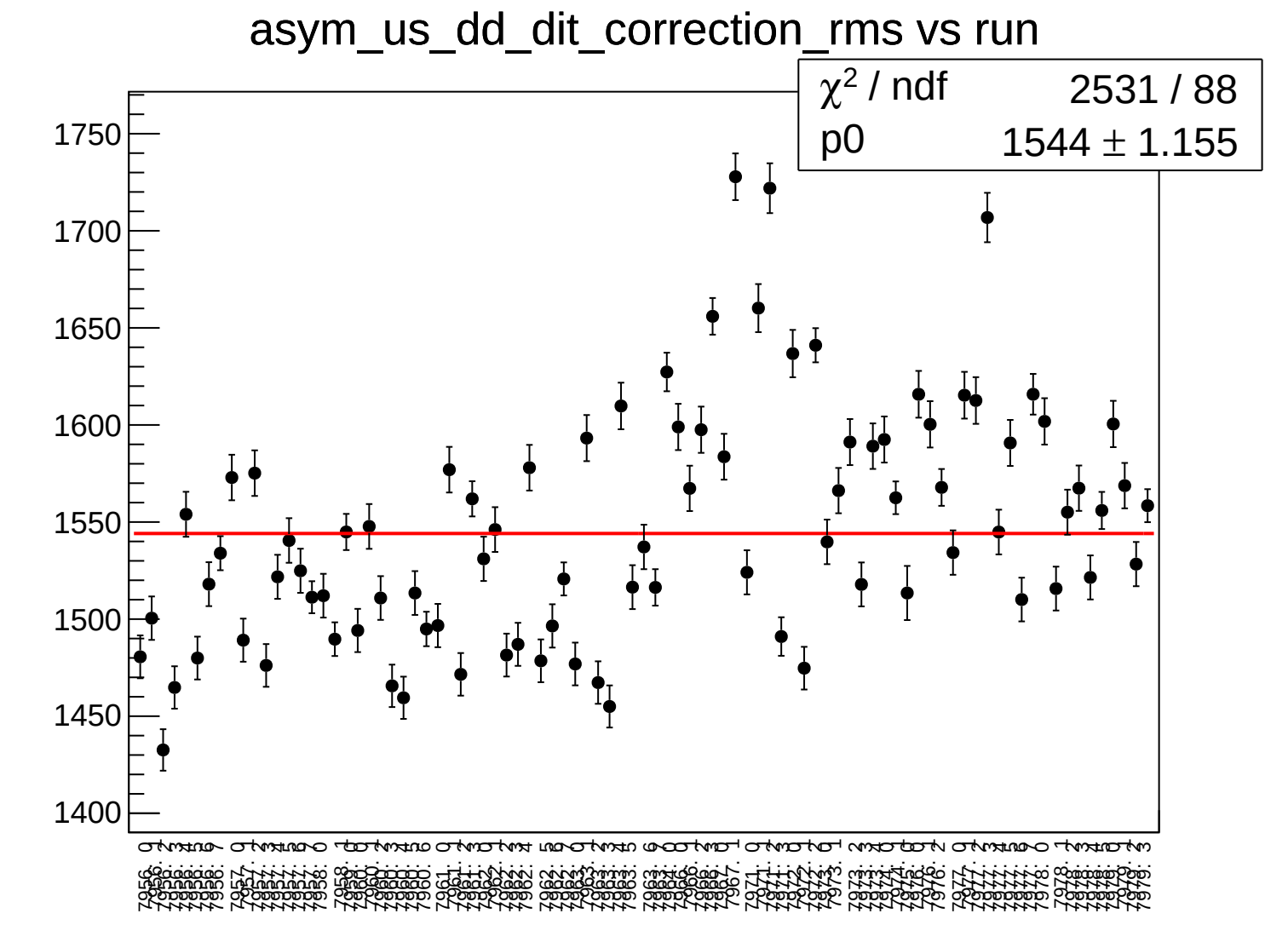

dit_asym_us_dd_mean vs run
χ² / ndf 79.61 / 88
p0 −375 ± 804.7
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 479.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

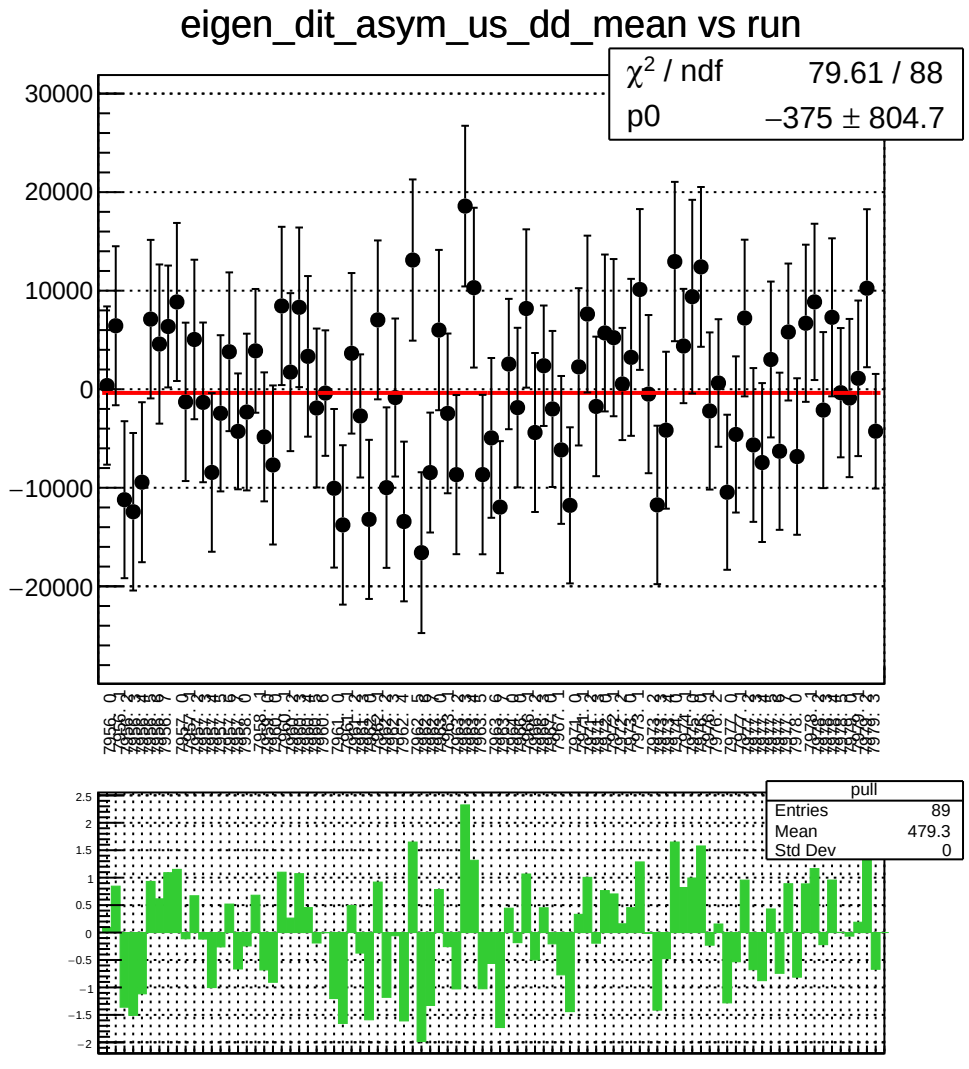

pull1D
Entries 89
Mean 0.006424
Std Dev 0.9457
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

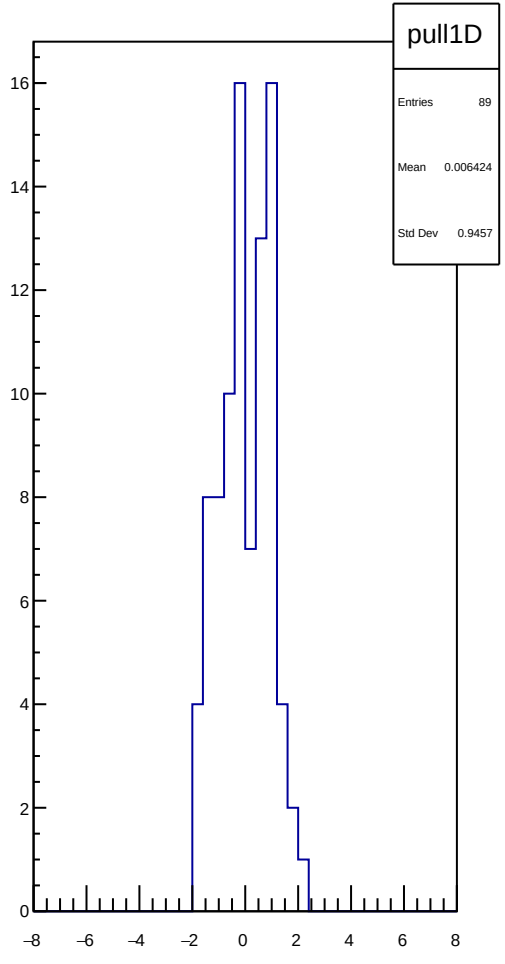

dit_asym_us_dd_rms vs run
$\chi^2$ / ndf 150.8 / 88
p0 761.4 ± 0.569
780
770
760
750
740

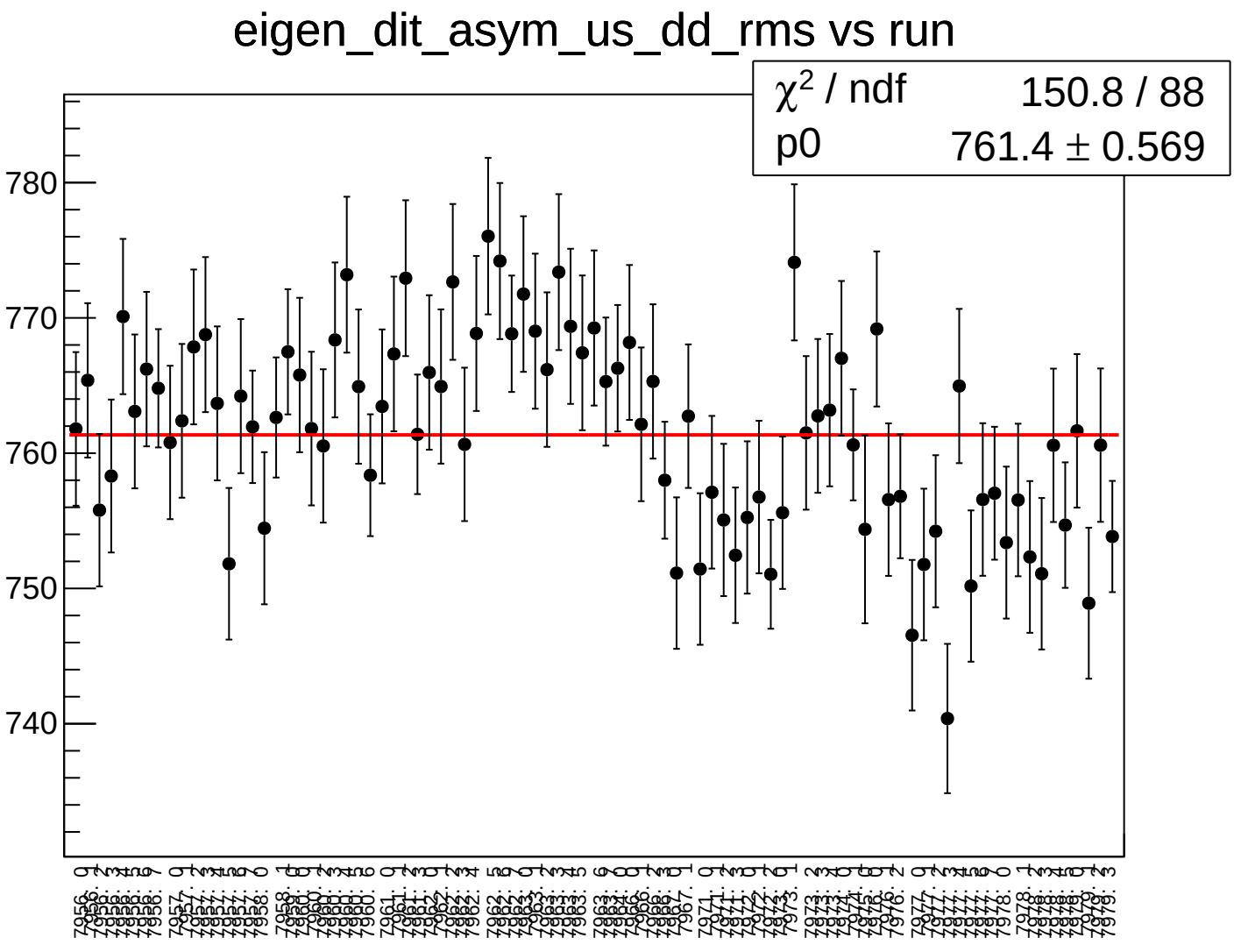

asym_us_dd_dit_correction_mean vs run
χ² / ndf 111.7 / 88
p0 723.9 ± 1633
pull
Entries 89
Mean 1473
Std Dev 0

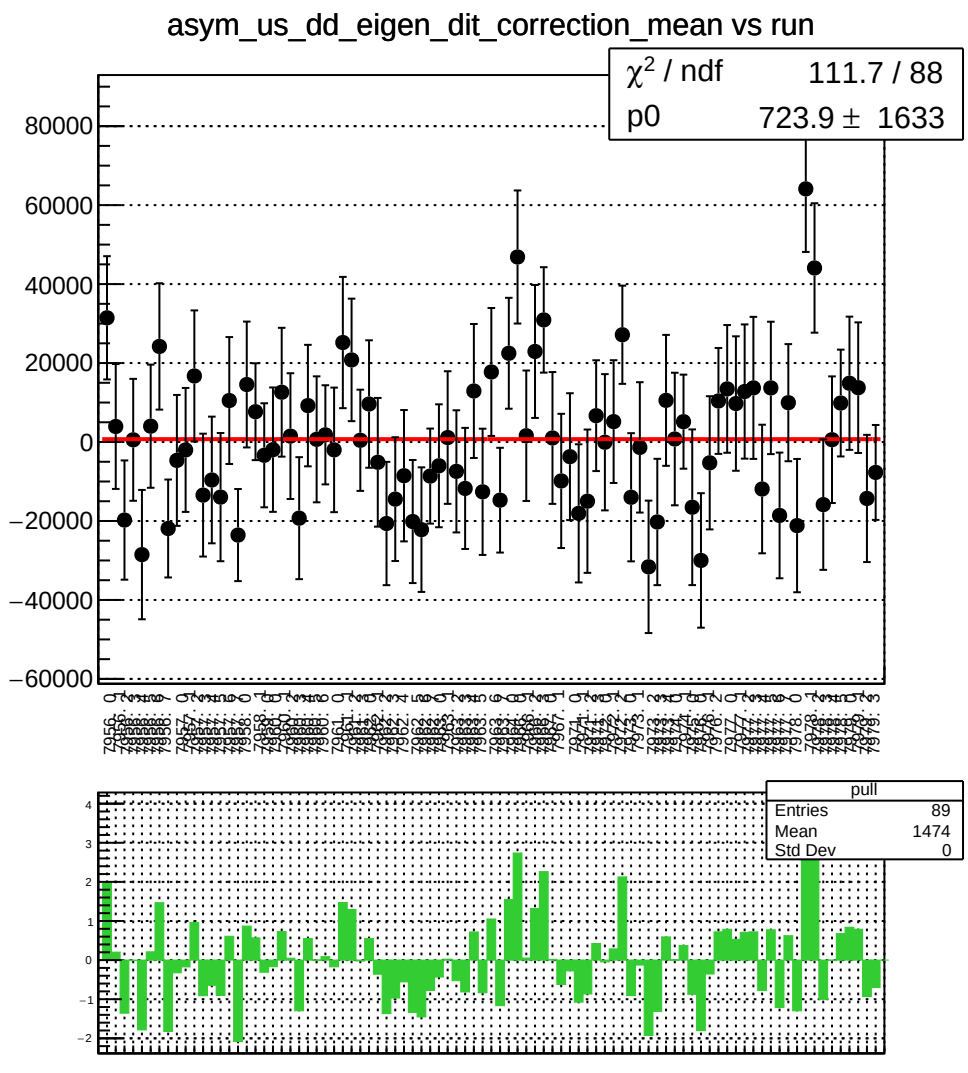

pull1D
Entries 89
Mean 0.002432
Std Dev 1.12

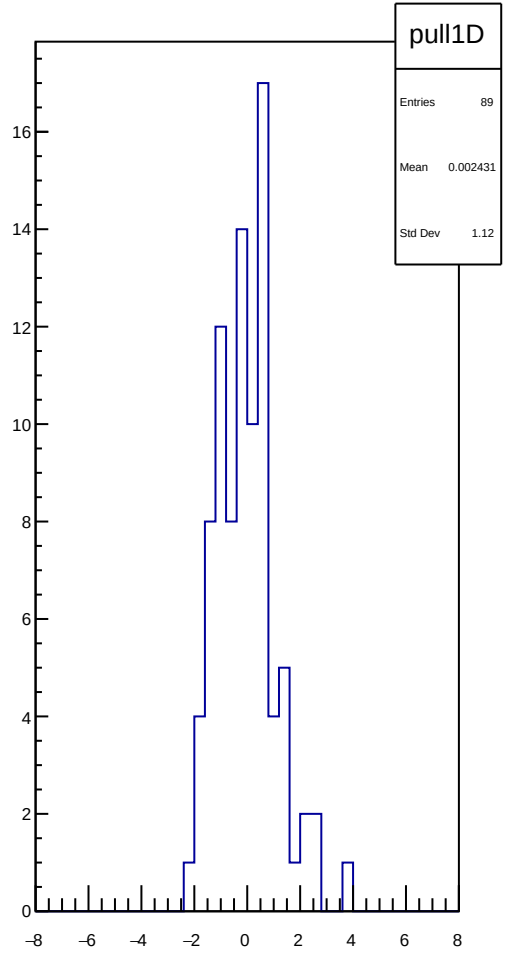

asym_us_dd_dit_correction_rms vs run
χ² / ndf 2531 / 88
p0 1544 ± 1.155
1750
1700
1650
1600
1550
1500
1450
1400

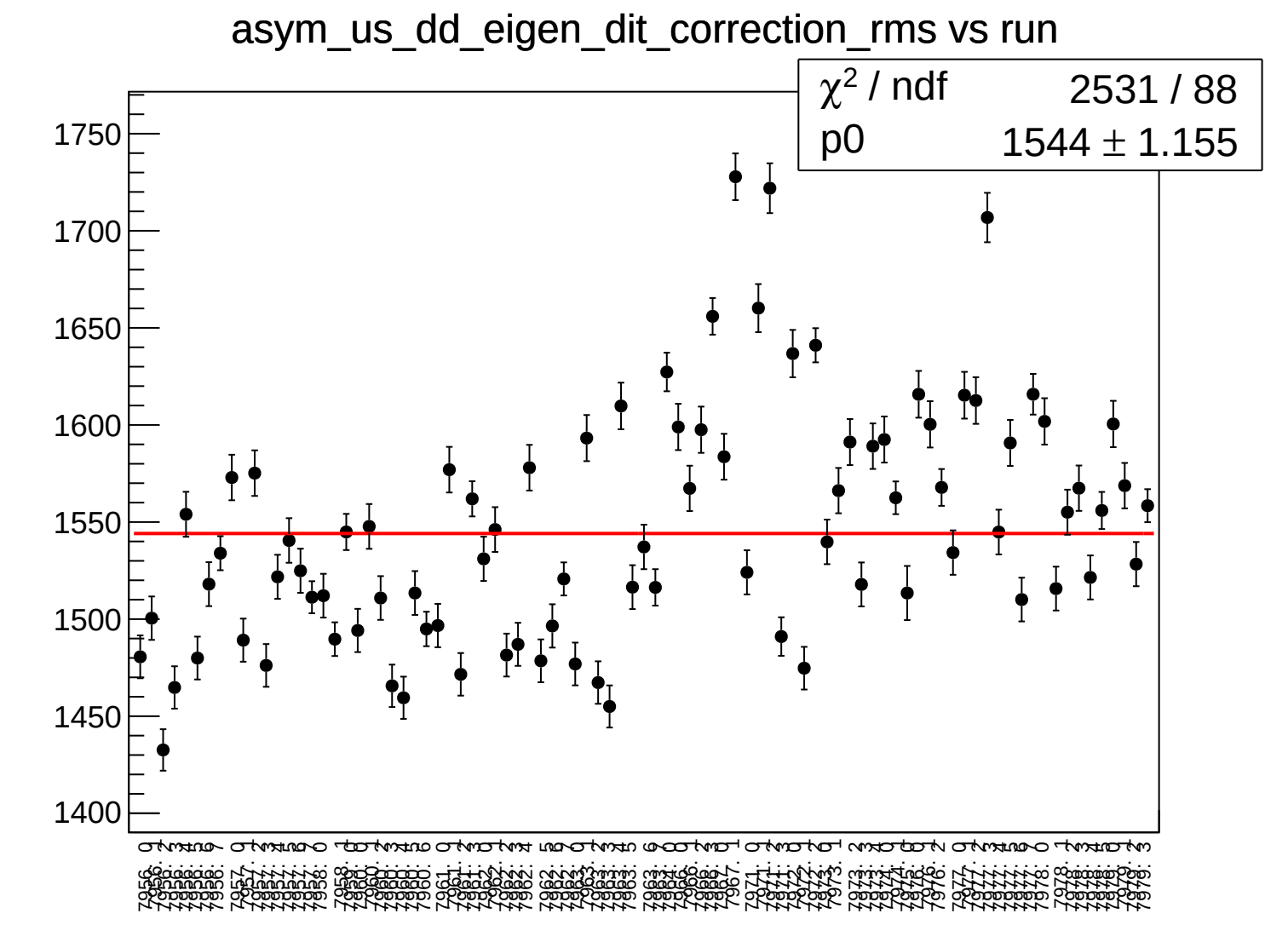

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 79.61 / 88
p0 −375 ± 804.7
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 479.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

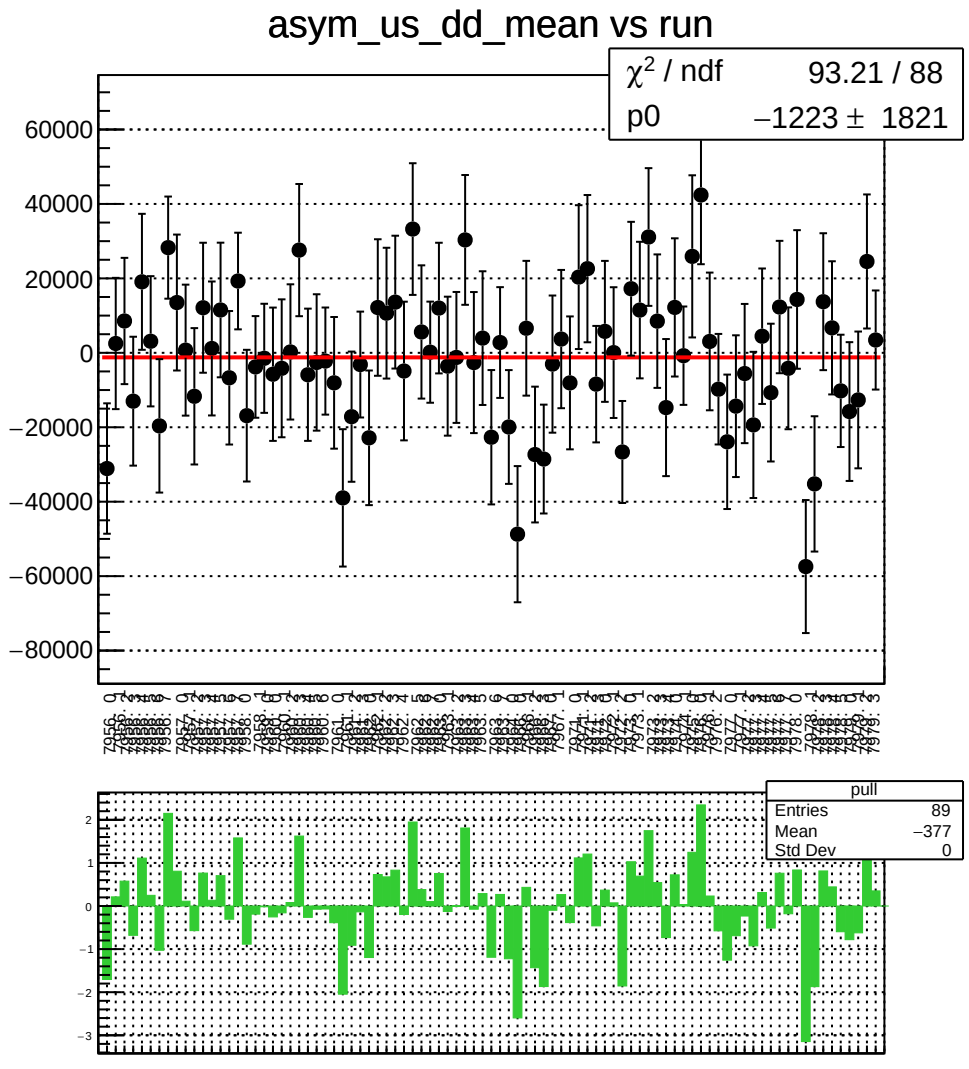

pull1D
Entries 89
Mean 0.006424
Std Dev 0.9457
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

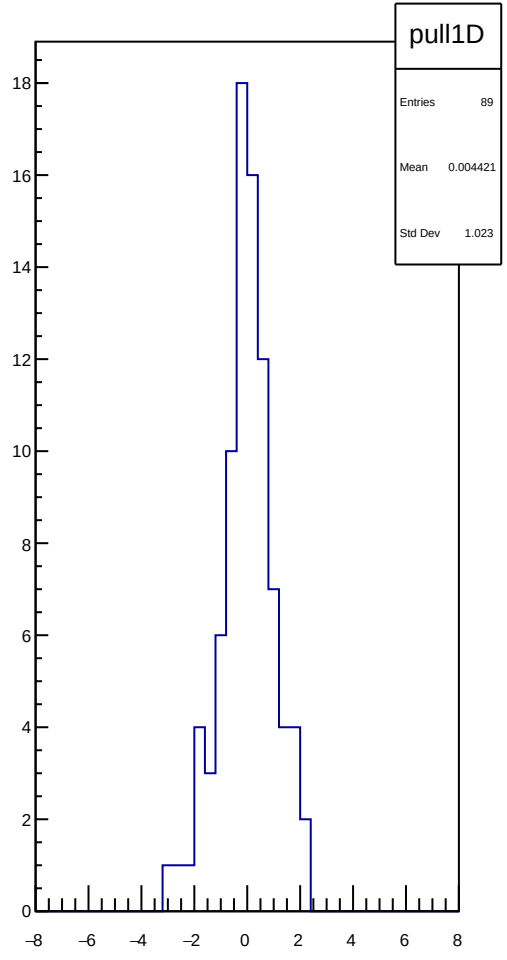

eigen_dit_asym_us_dd_rms vs run
$\chi^2$ / ndf 150.8 / 88
p0 761.4 ± 0.569
780
770
760
750
740

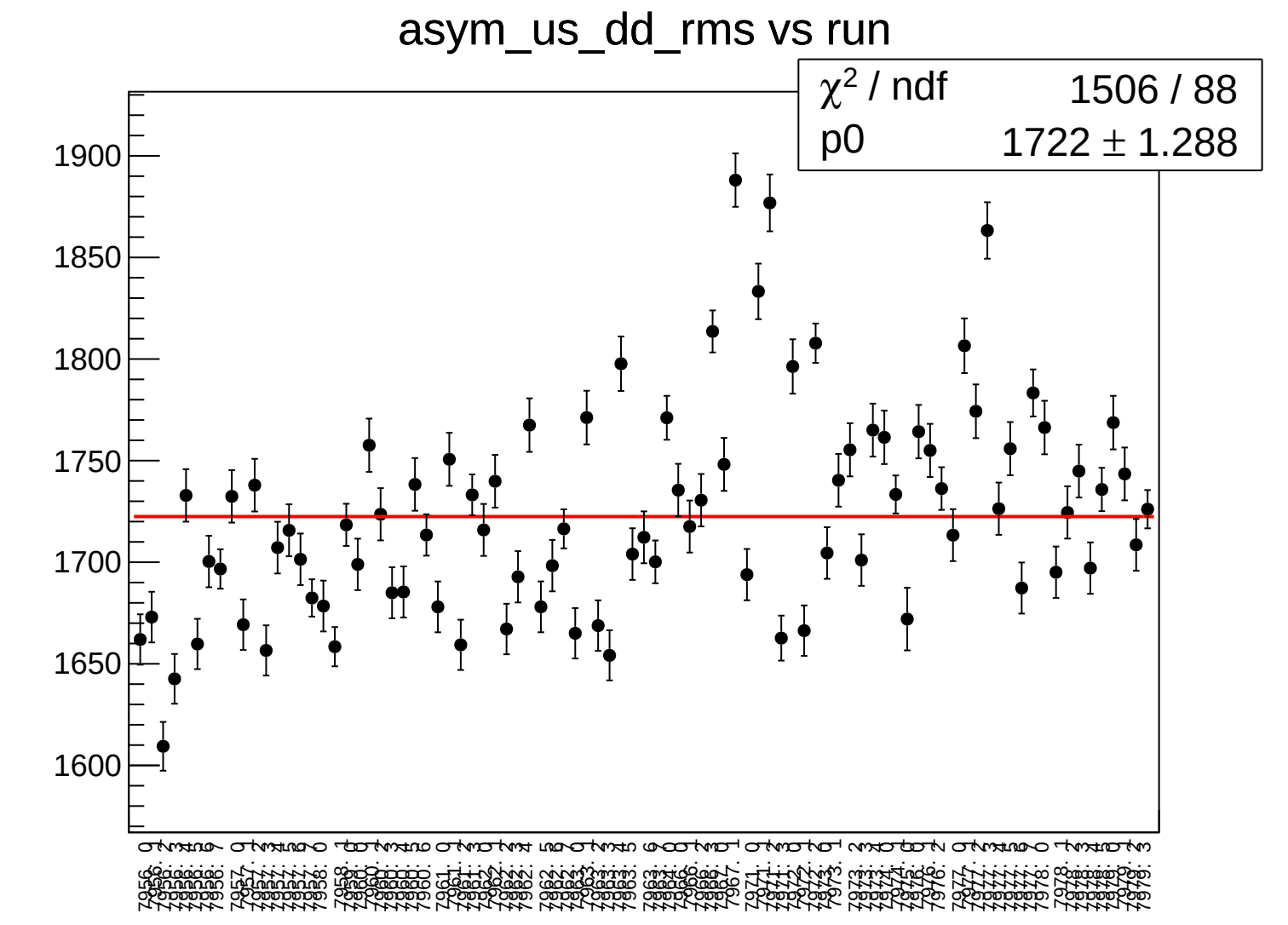

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 111.7 / 88
p0 723.9 ± 1633
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1474
Std Dev 0
4
3
2
1
0
−1
−2

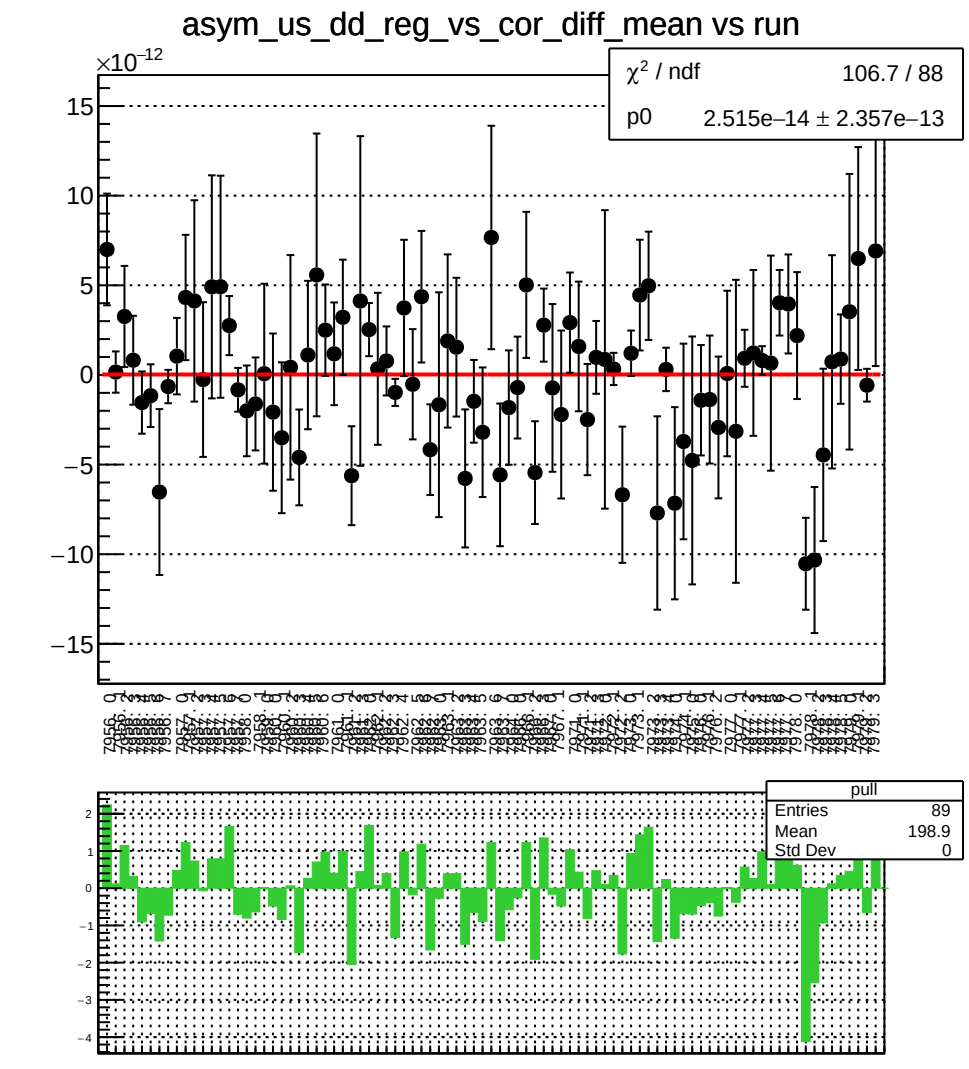

pull1D
Entries 89
Mean 0.002431
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

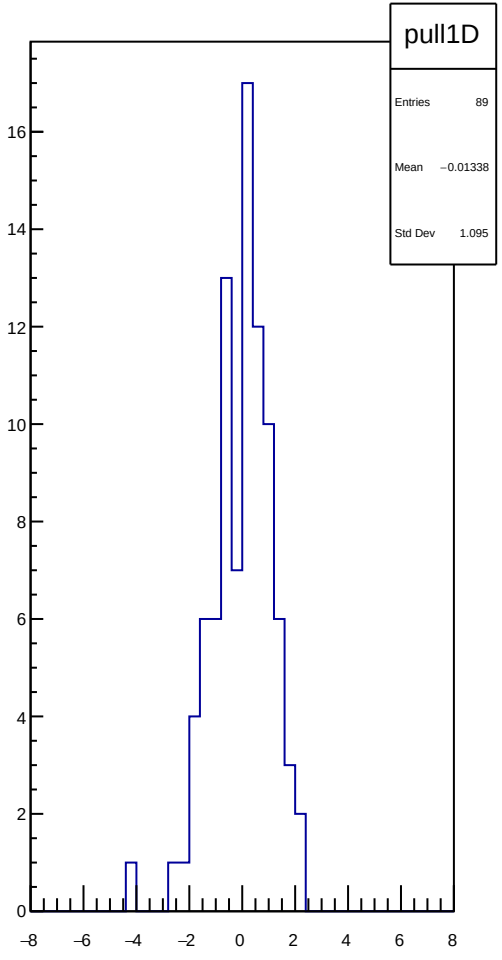

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 2531 / 88
p0 1544 ± 1.155
1750
1700
1650
1600
1550
1500
1450
1400

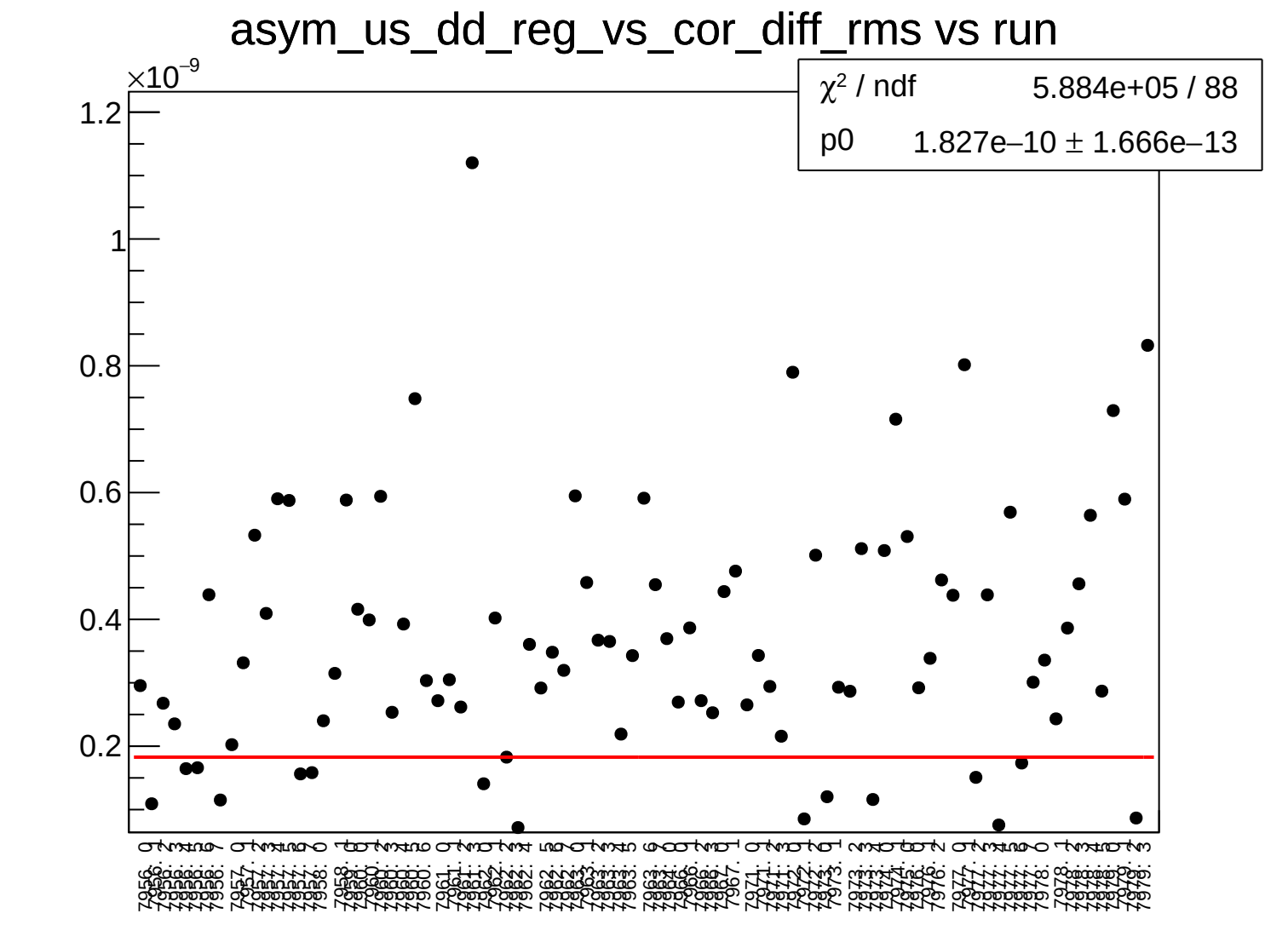

asym_us_dd_mean vs run
χ² / ndf 93.21 / 88
p0 −1223 ± 1821
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −377
Std Dev 0
2
1
0
−1
−2
−3

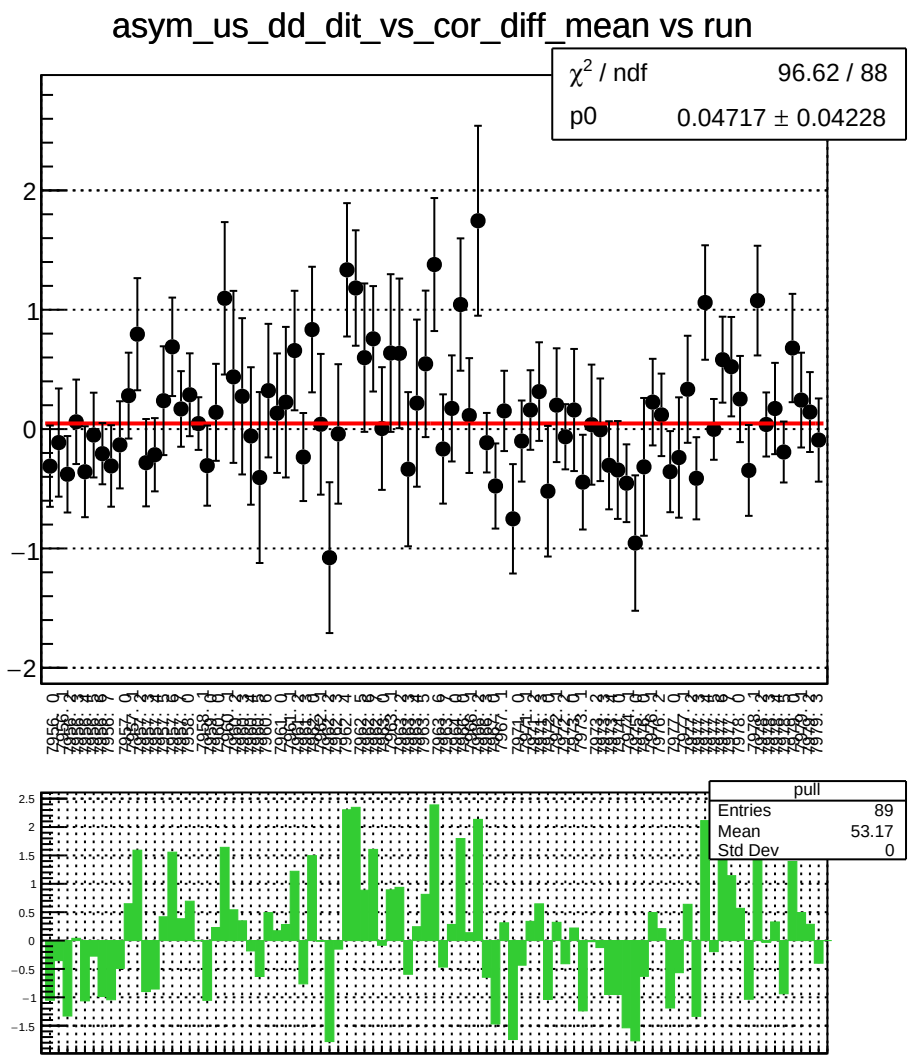

pull1D
Entries 89
Mean 0.004421
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

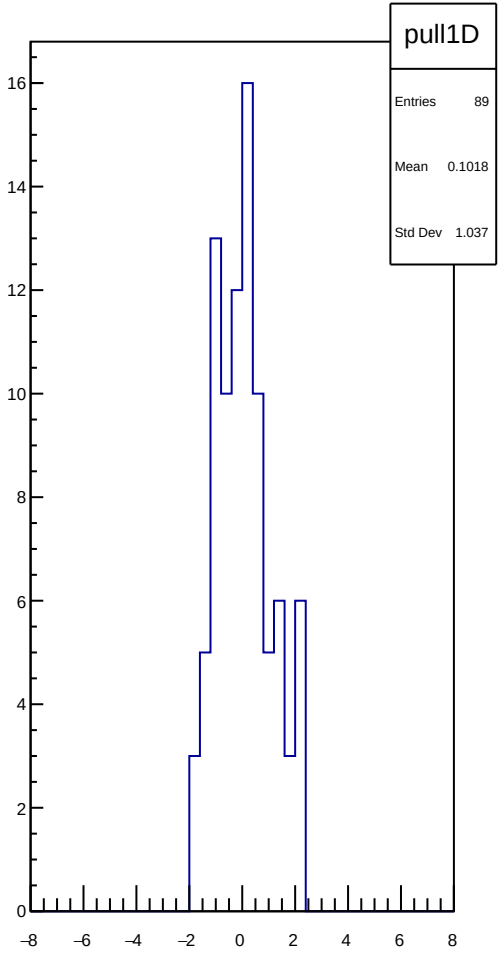

asym_us_dd_rms vs run
χ² / ndf 1506 / 88
p0 1722 ± 1.288
1900
1850
1800
1750
1700
1650
1600

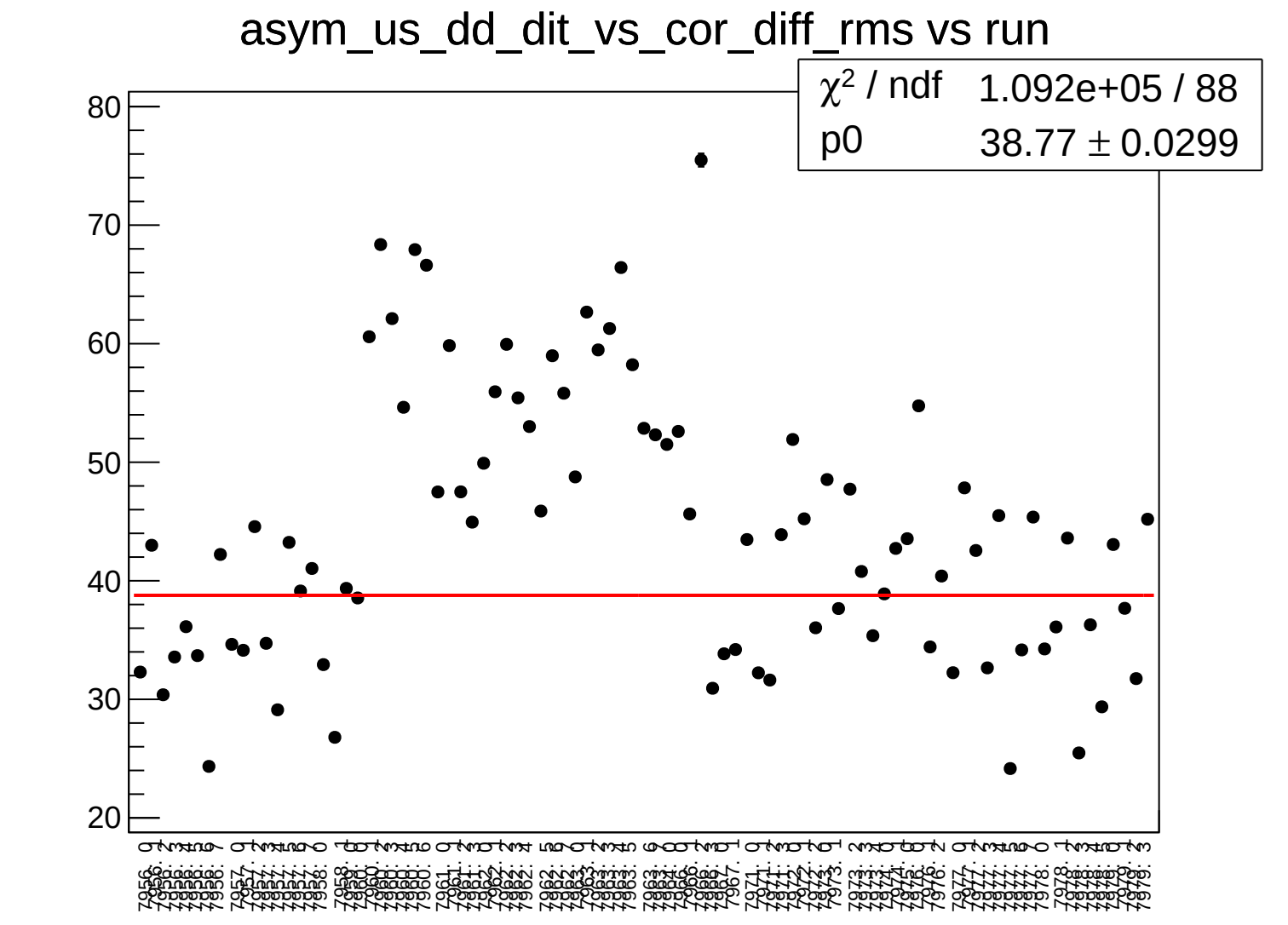

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.7 / 88
p0 2.515e−14 ± 2.357e−13
pull
Entries 89
Mean 198.9
Std Dev 0

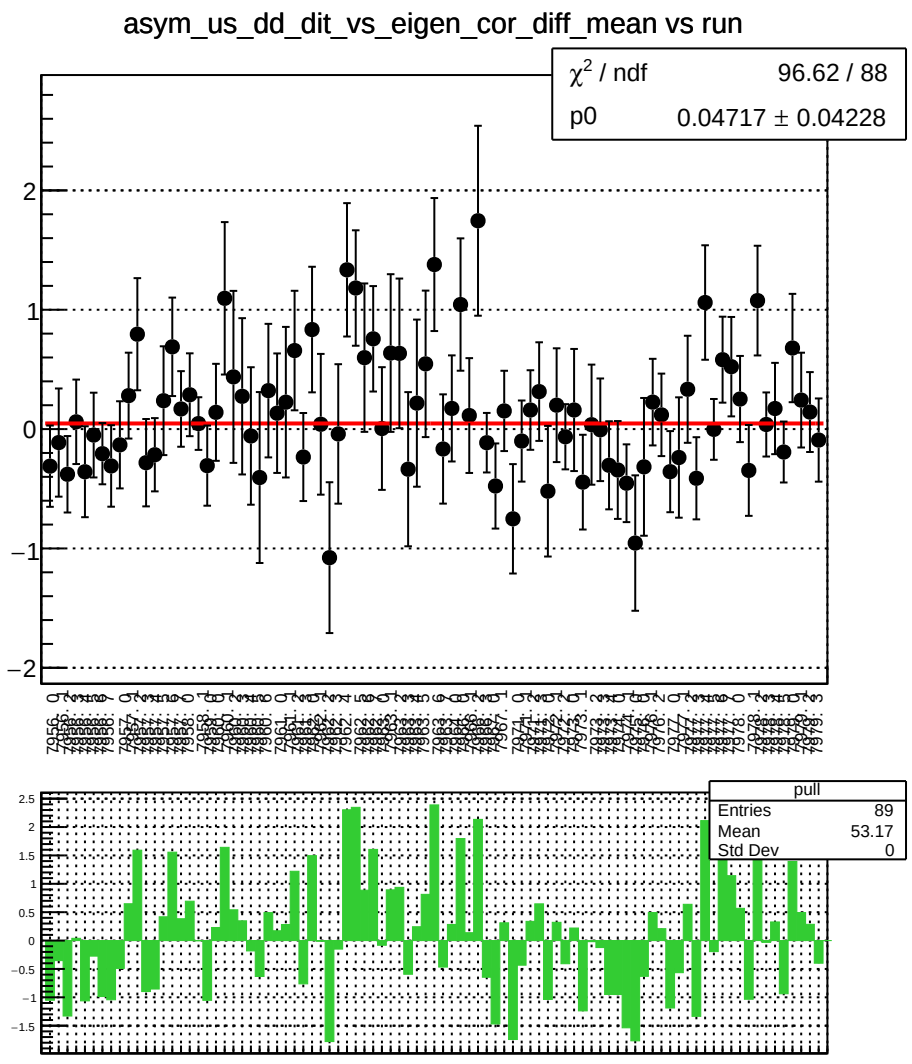

pull1D
Entries 89
Mean −0.01338
Std Dev 1.095

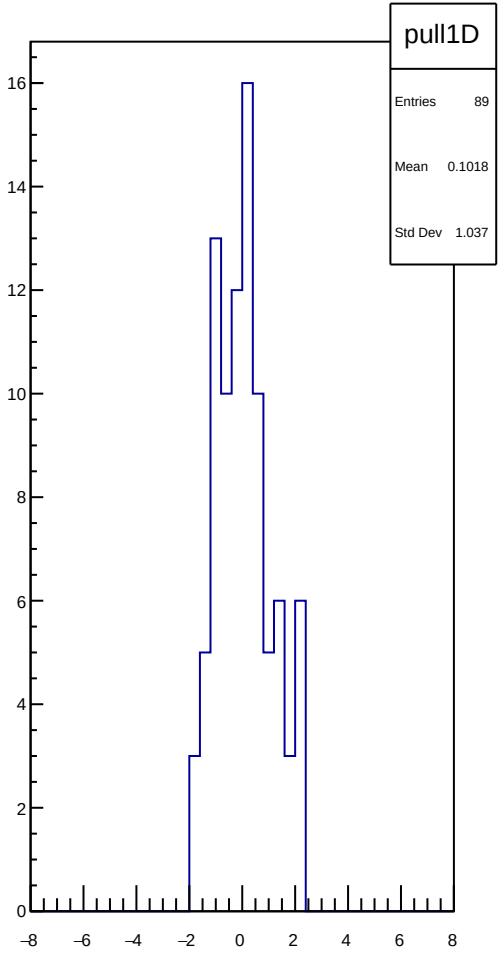

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.884e+05 / 88
p0 1.827e−10 ± 1.666e−13
1.2
1
0.8
0.6
0.4
0.2

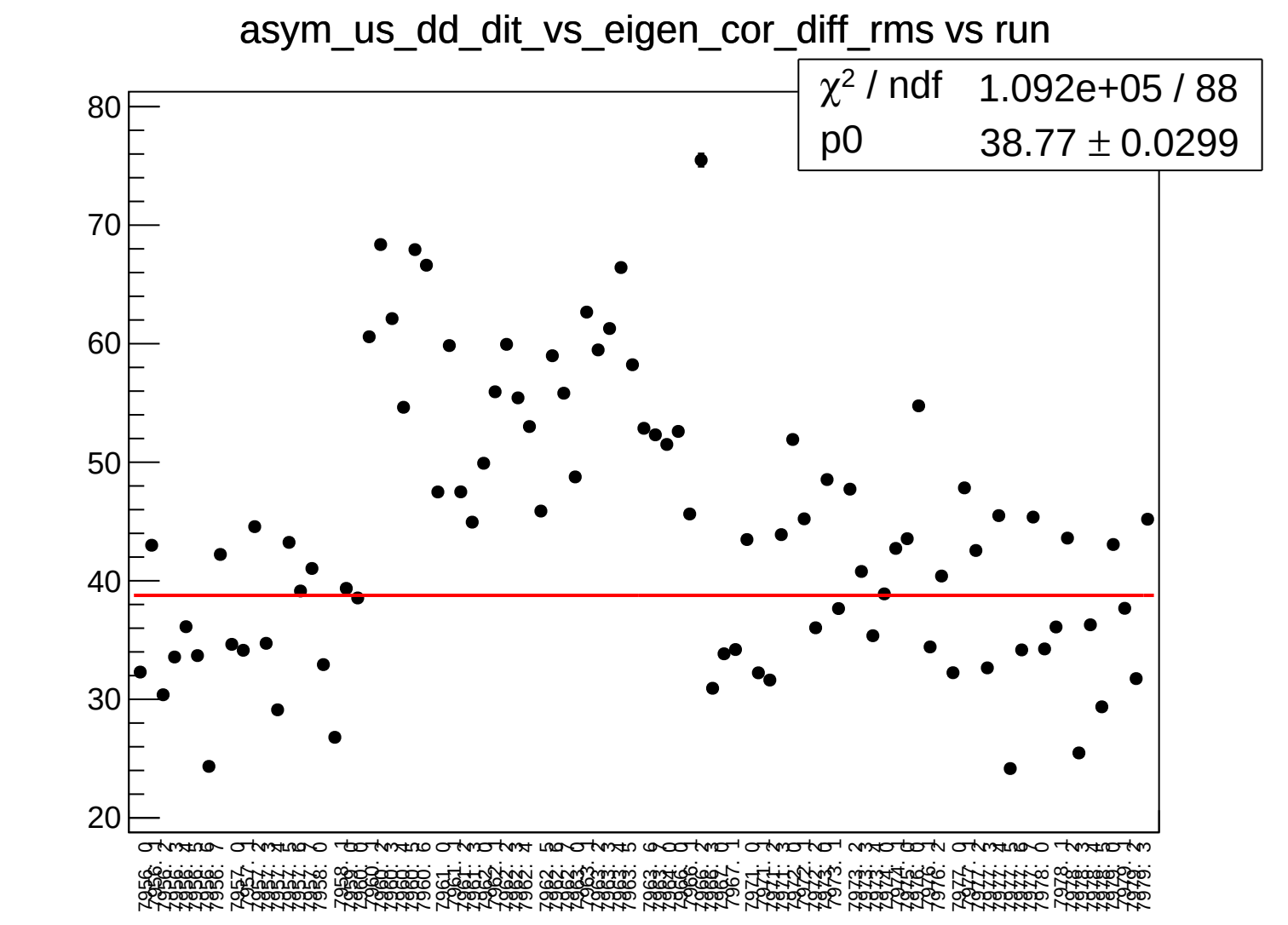

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.62 / 88
p0 0.04717 ± 0.04228
pull
Entries 89
Mean 53.17
Std Dev 0

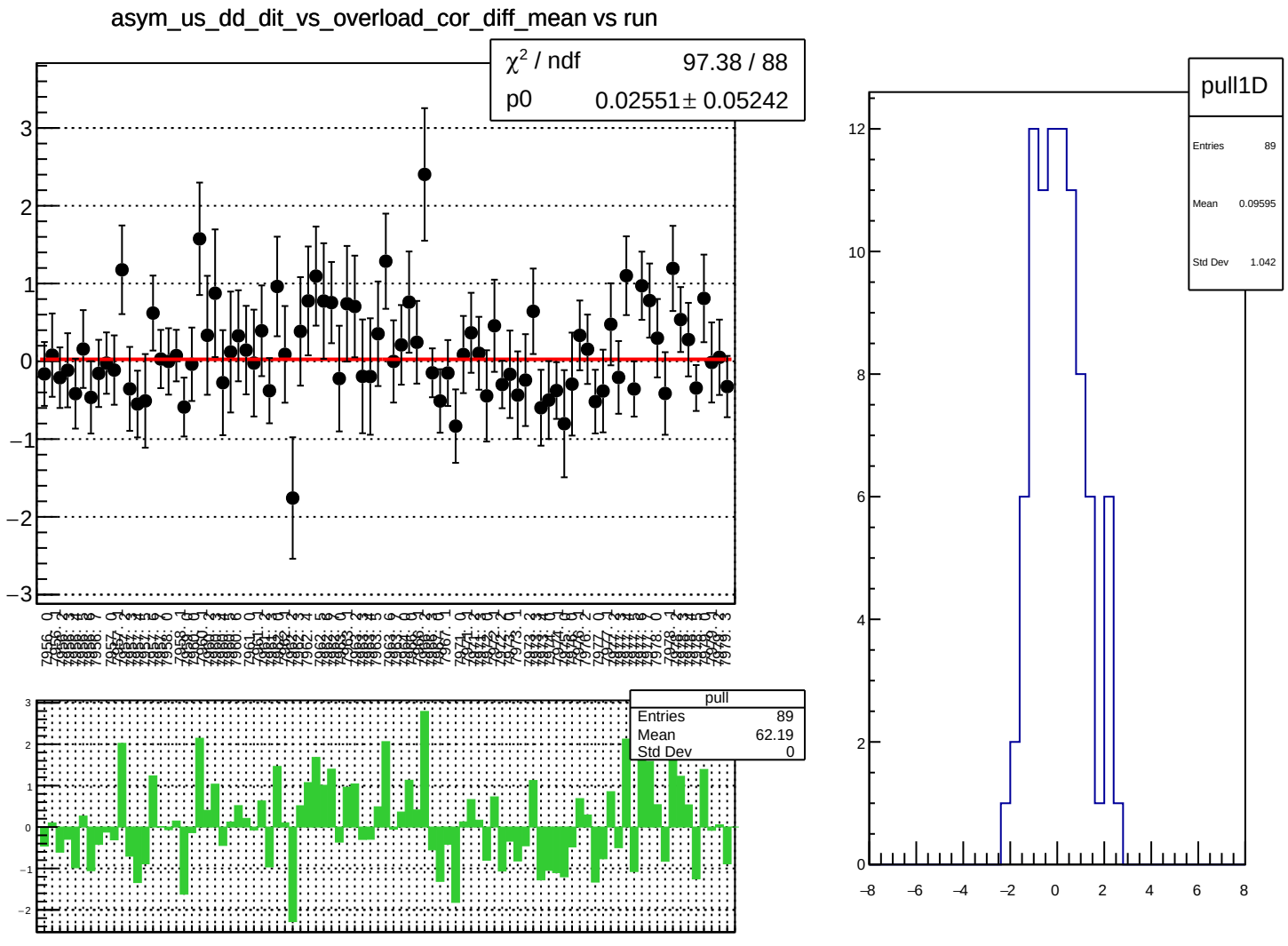

pull1D
Entries 89
Mean 0.1018
Std Dev 1.037

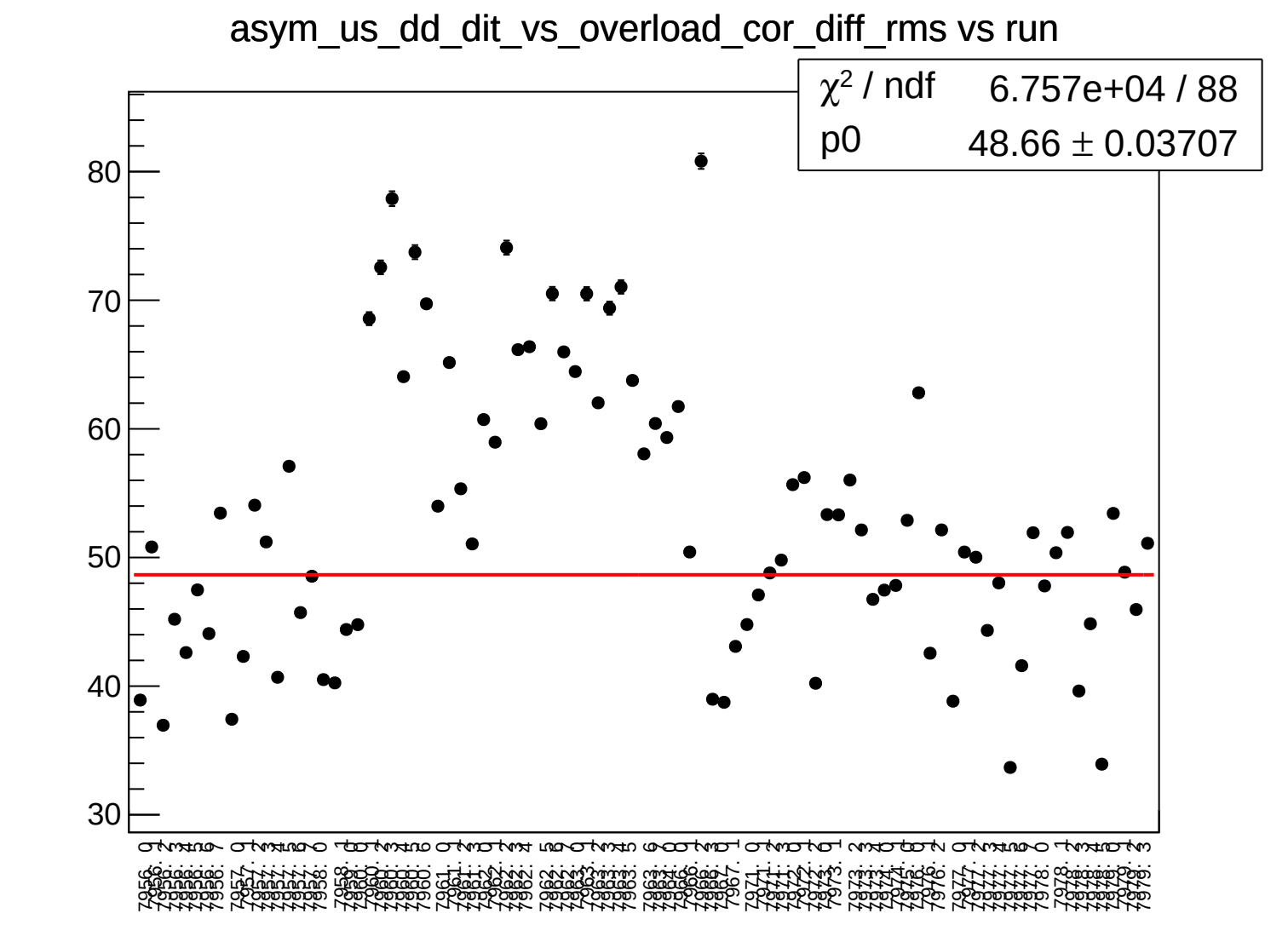

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.092e+05 / 88
p0 38.77 ± 0.0299
80
70
60
50
40
30
20

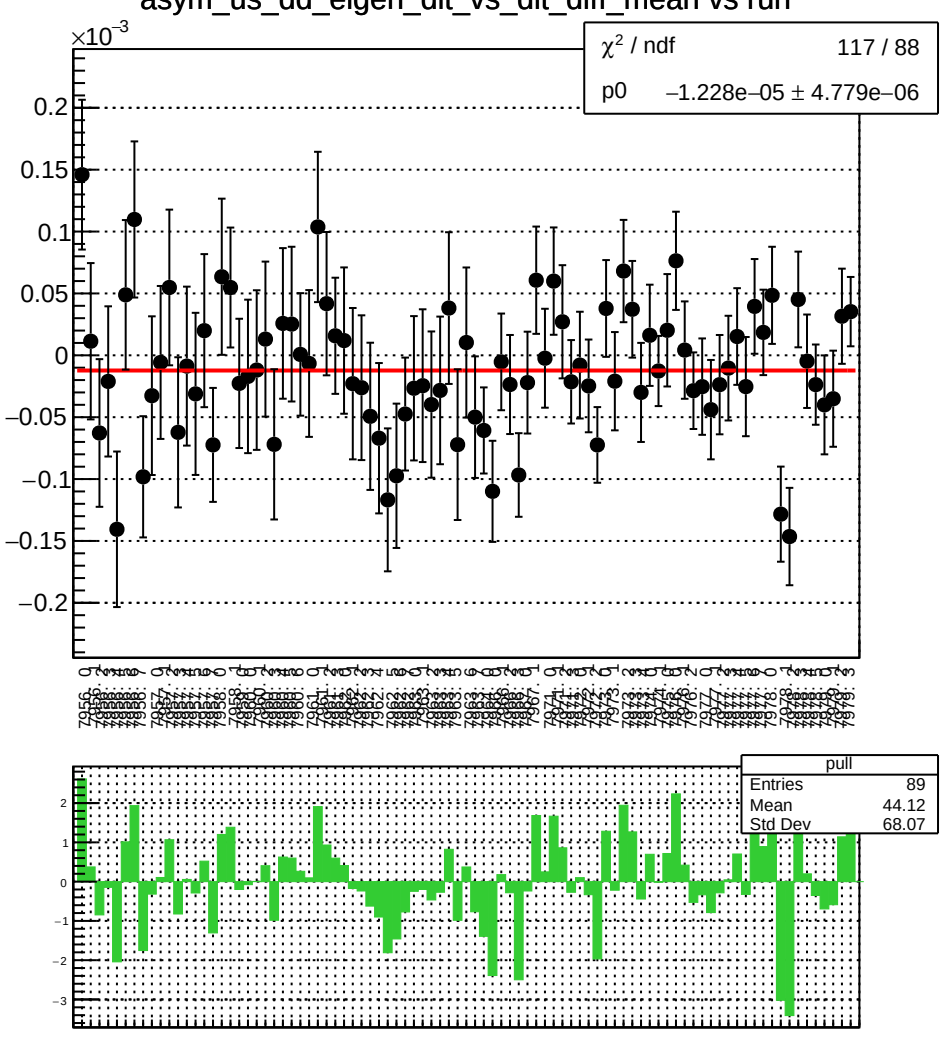

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.62 / 88
p0 0.04717 ± 0.04228
pull
Entries 89
Mean 53.17
Std Dev 0

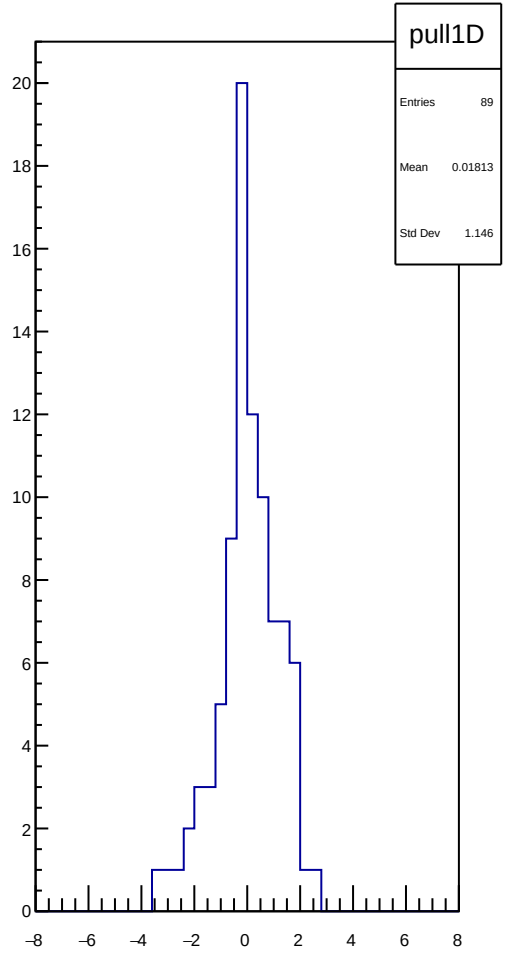

pull1D
Entries 89
Mean 0.1018
Std Dev 1.037

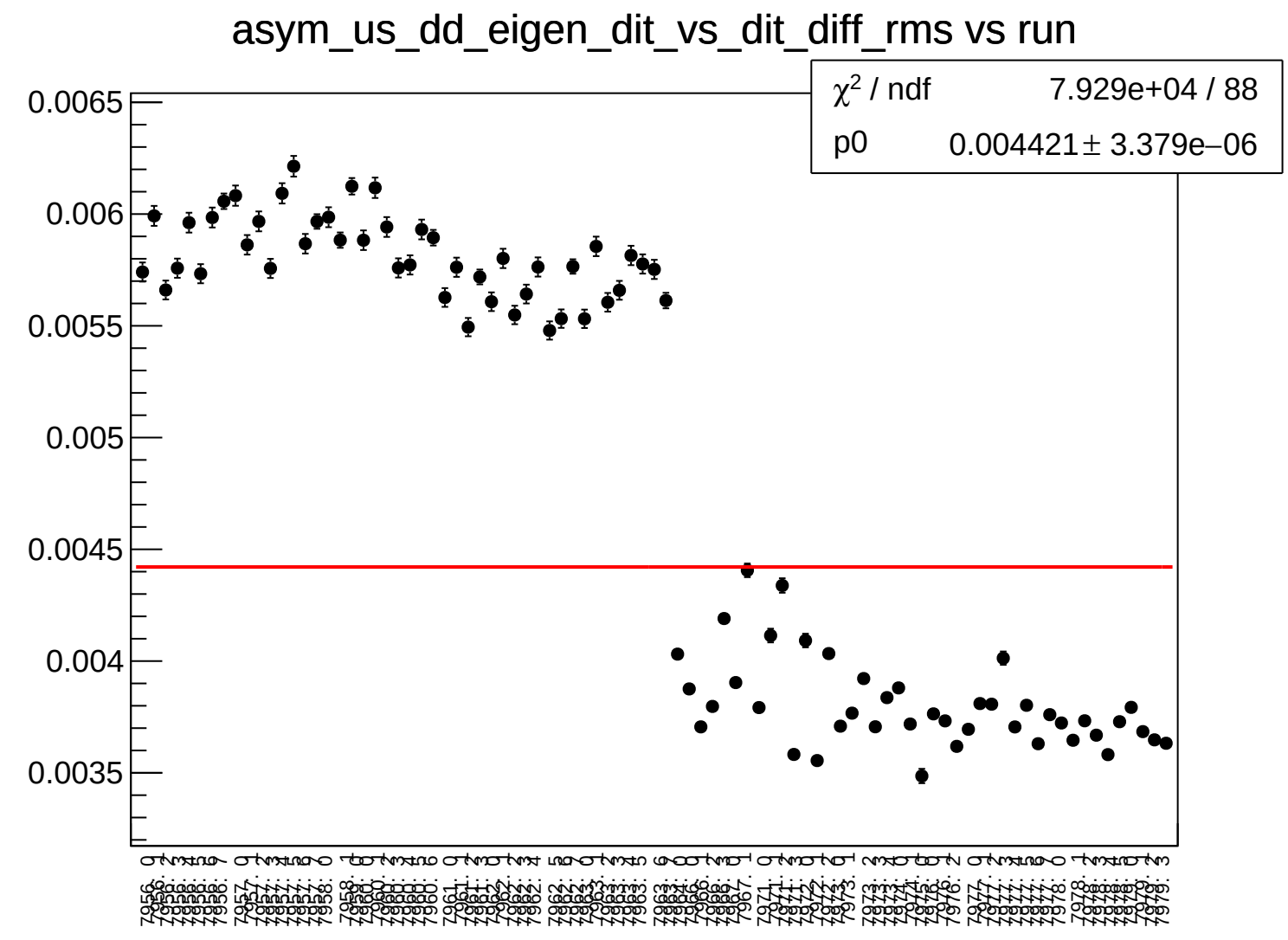

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.092e+05 / 88
p0 38.77 ± 0.0299
80
70
60
50
40
30
20

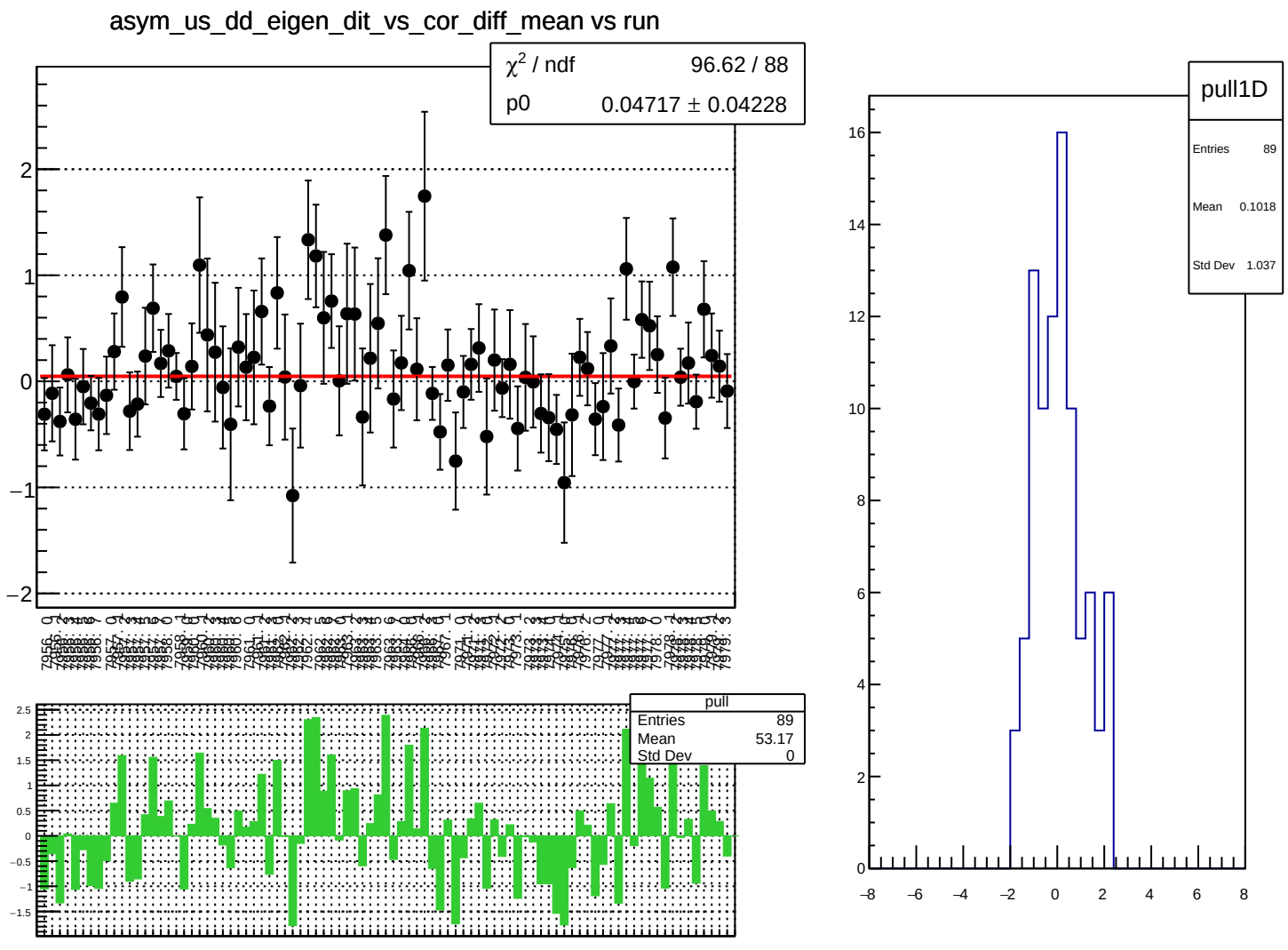

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 97.38 / 88
p0 0.02551 ± 0.05242
pull
Entries 89
Mean 62.19
Std Dev 0
pull1D
Entries 89
Mean 0.09595
Std Dev 1.042

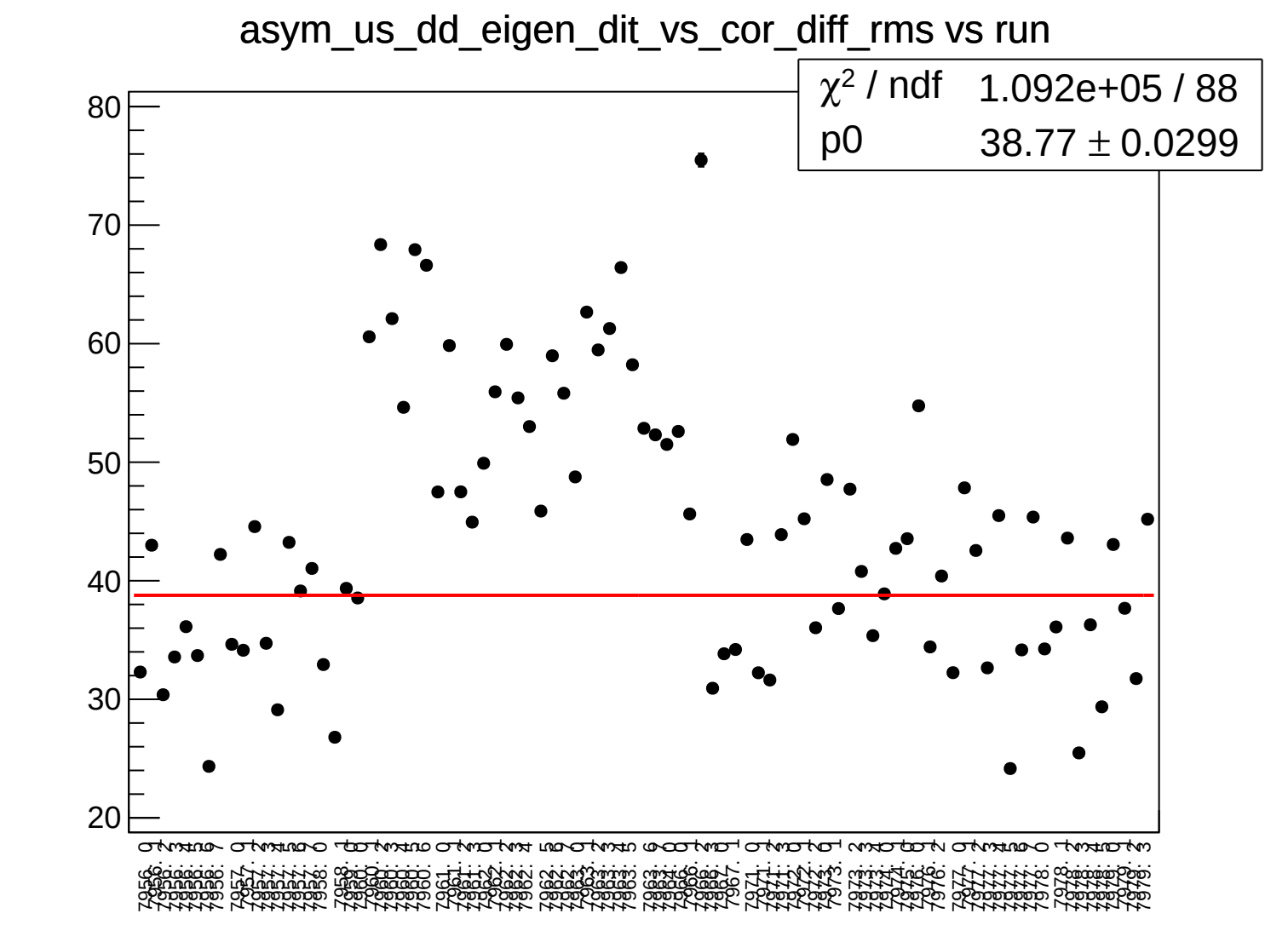

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.757e+04 / 88
p0 48.66 ± 0.03707
80
70
60
50
40
30

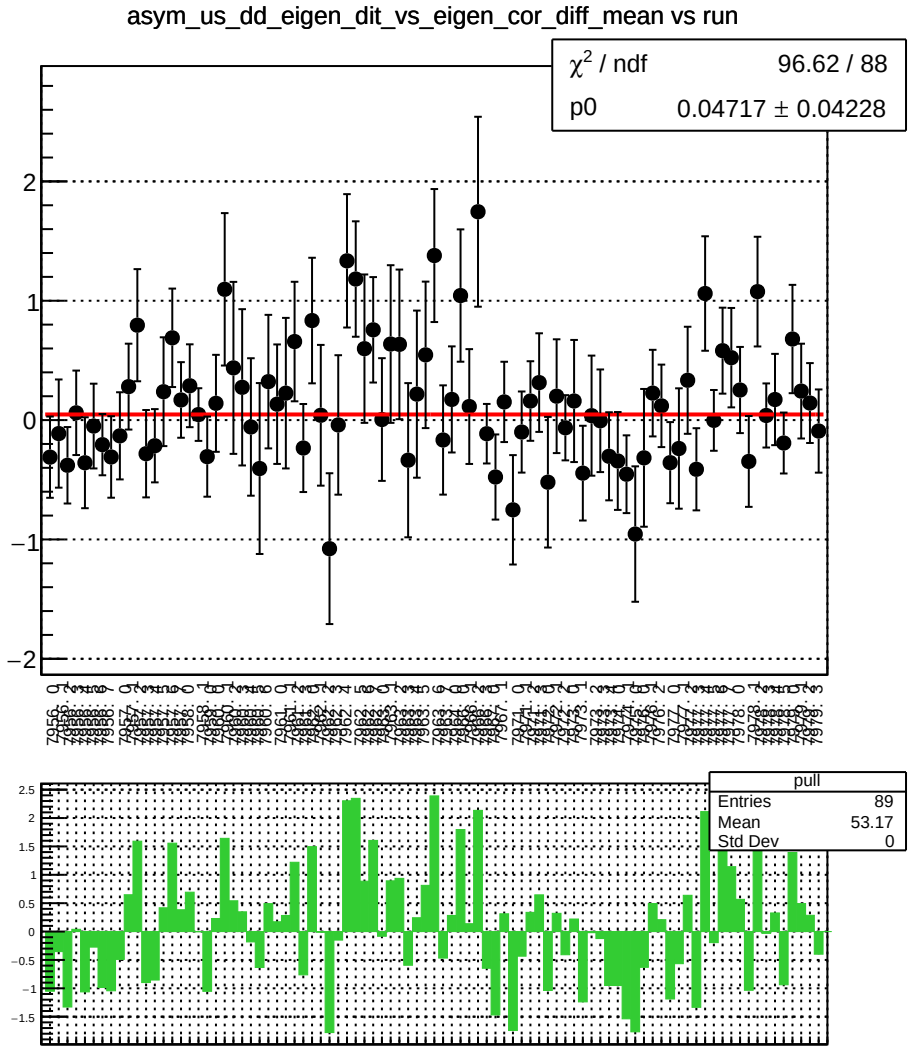

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117 / 88
p0 −1.228e−05 ± 4.779e−06
pull
Entries 89
Mean 44.12
Std Dev 68.07

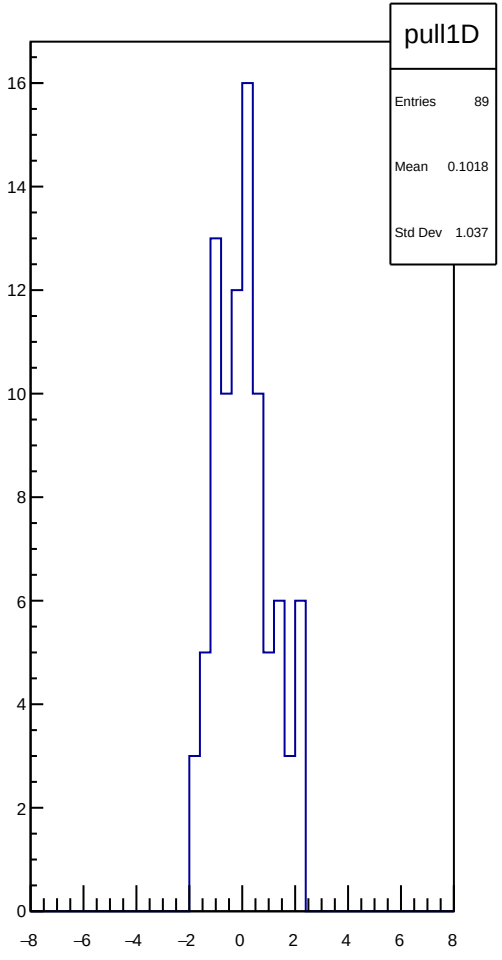

pull1D
Entries 89
Mean 0.01813
Std Dev 1.146

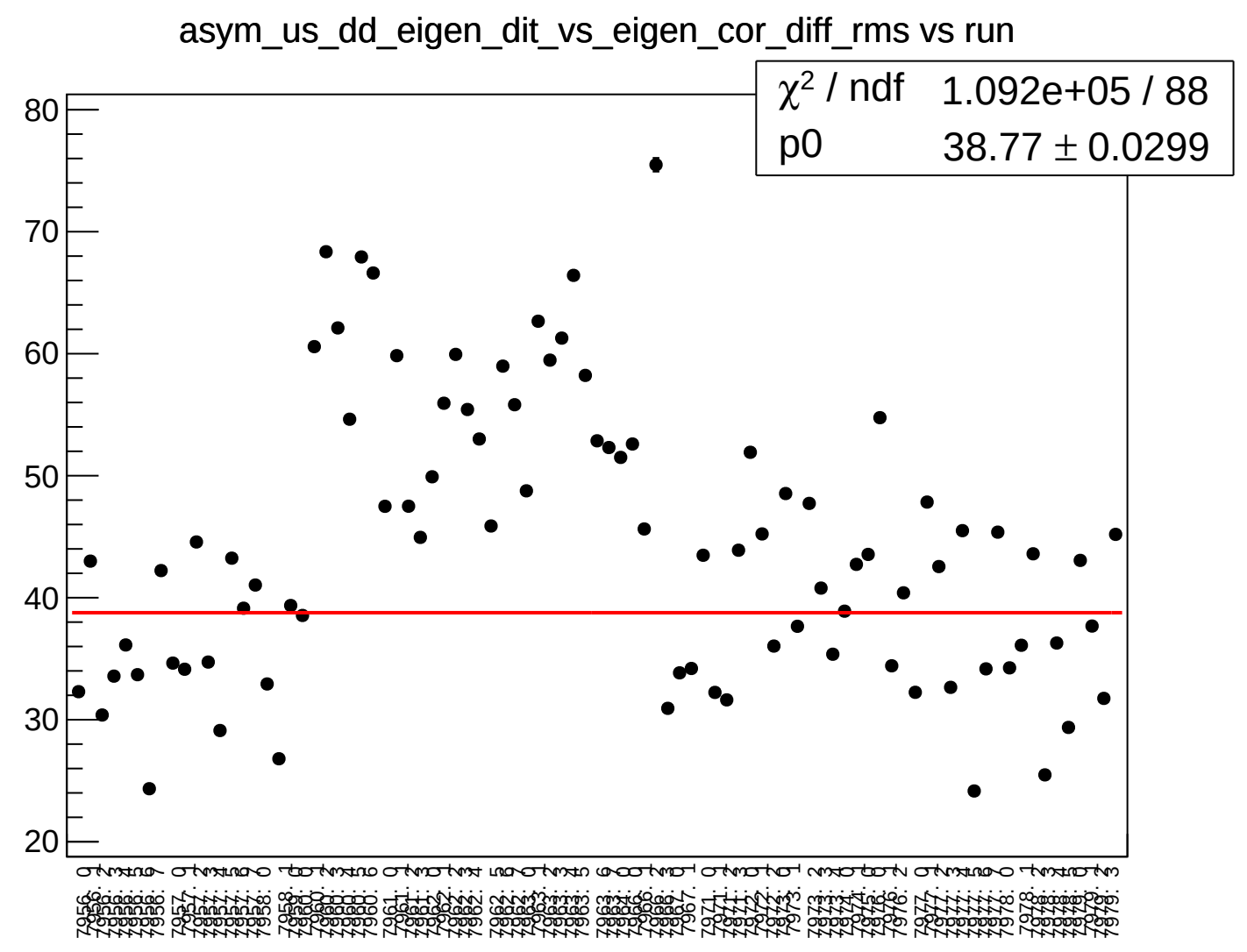

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.929e+04 / 88
p0 0.004421 ± 3.379e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

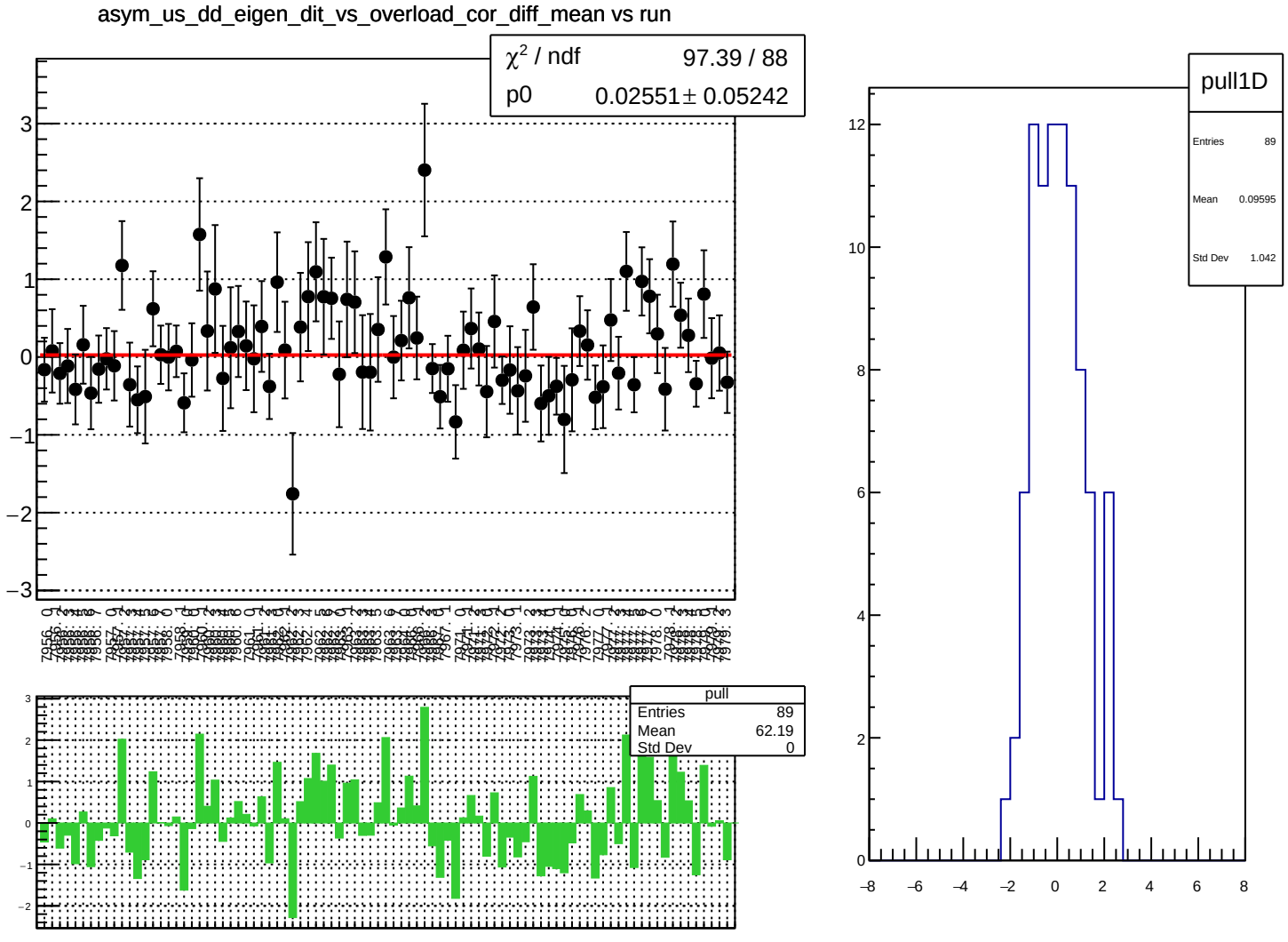

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.62 / 88
p0 0.04717 ± 0.04228
pull
Entries 89
Mean 53.17
Std Dev 0
pull1D
Entries 89
Mean 0.1018
Std Dev 1.037

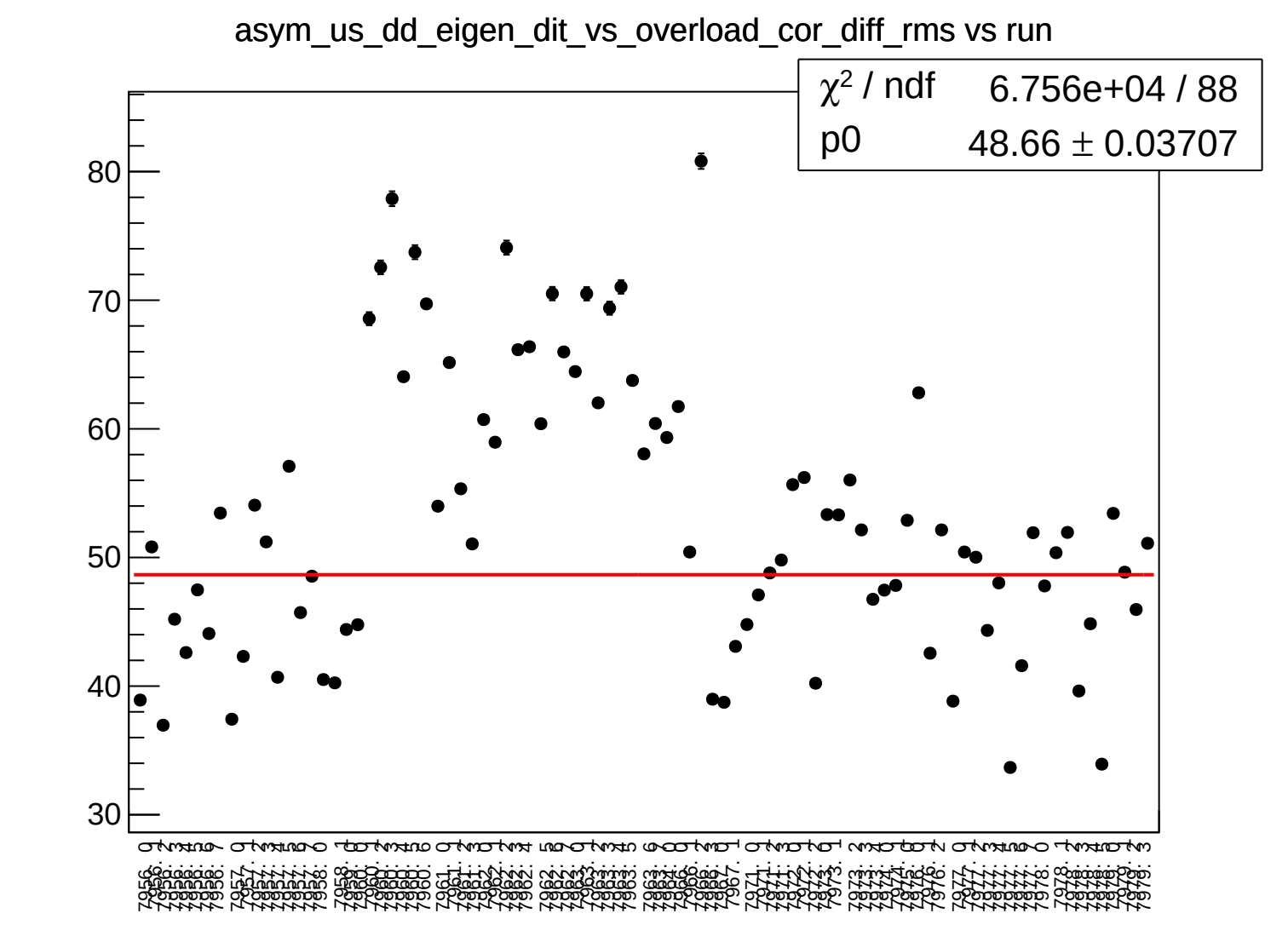

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.092e+05 / 88
p0 38.77 ± 0.0299
80
70
60
50
40
30
20

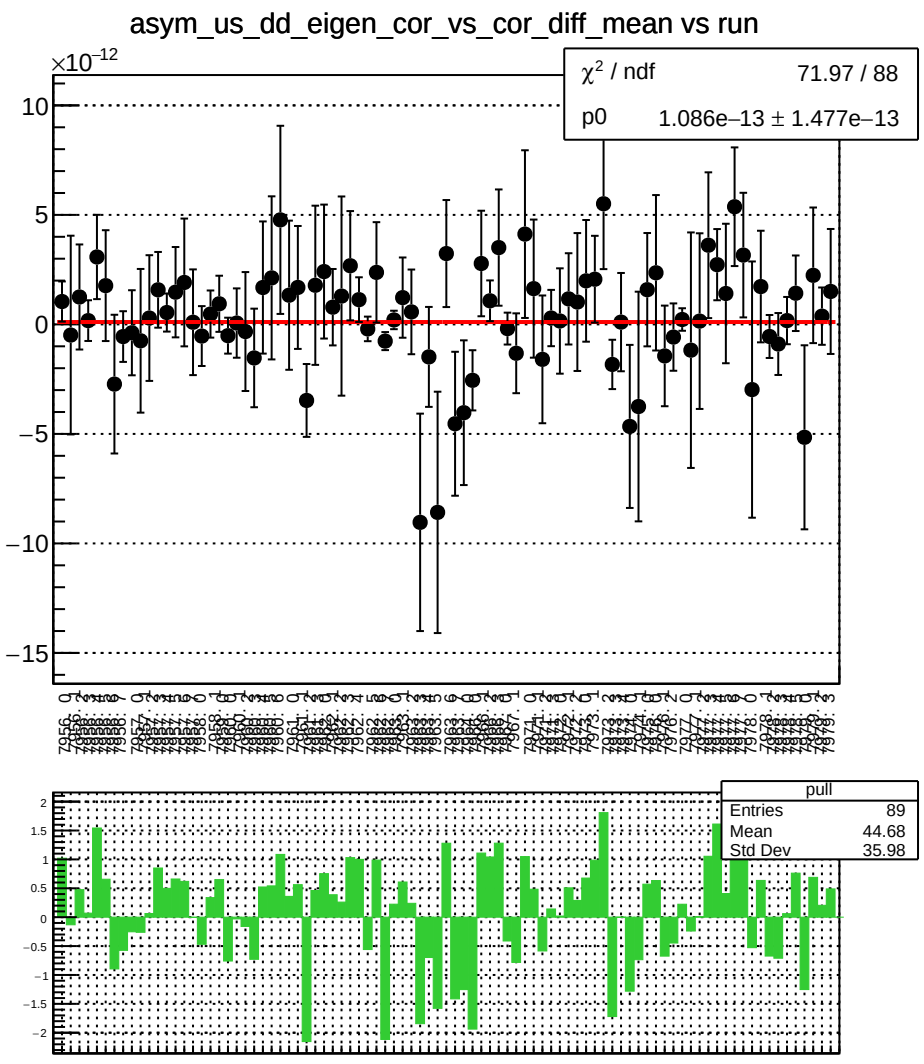

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.62 / 88
p0 0.04717 ± 0.04228
pull
Entries 89
Mean 53.17
Std Dev 0

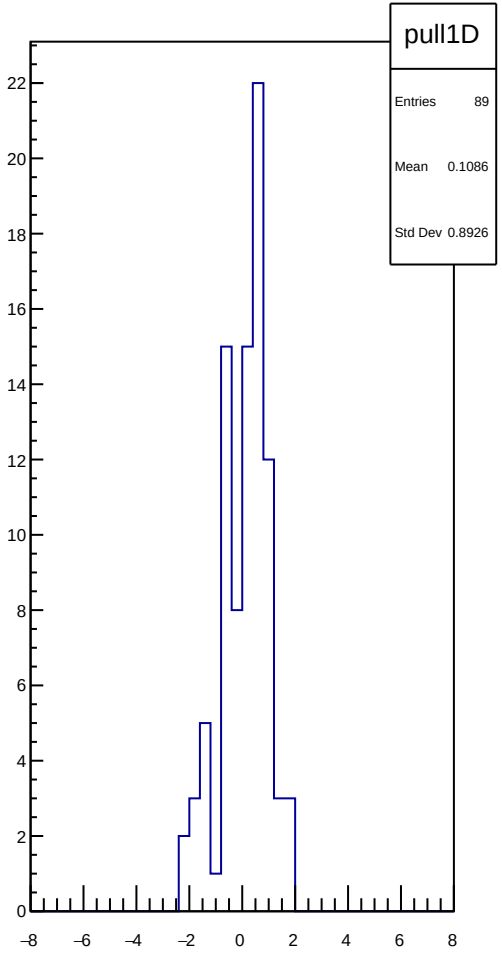

pull1D
Entries 89
Mean 0.1018
Std Dev 1.037

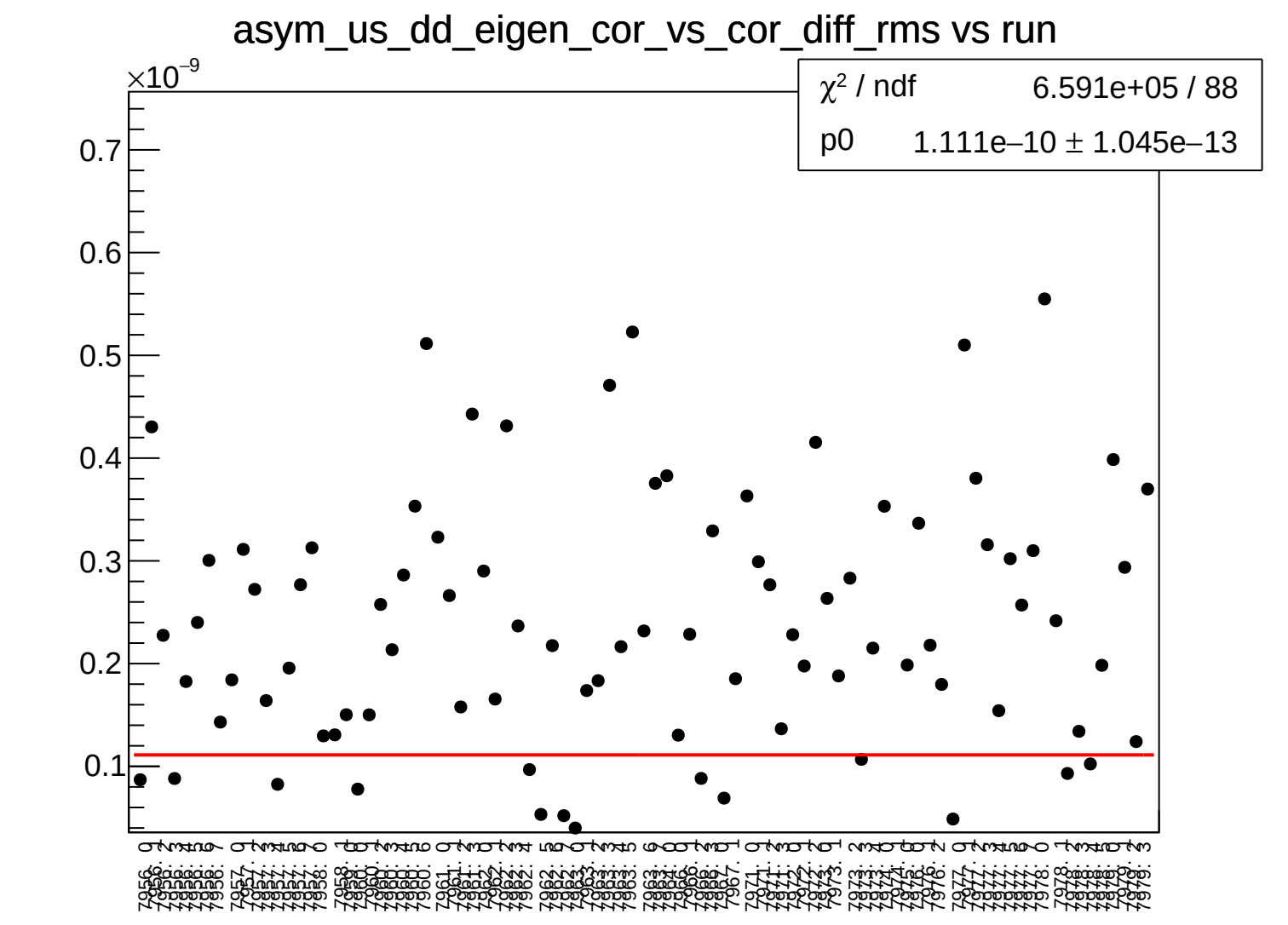

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.092e+05 / 88
p0 38.77 ± 0.0299
80
70
60
50
40
30
20

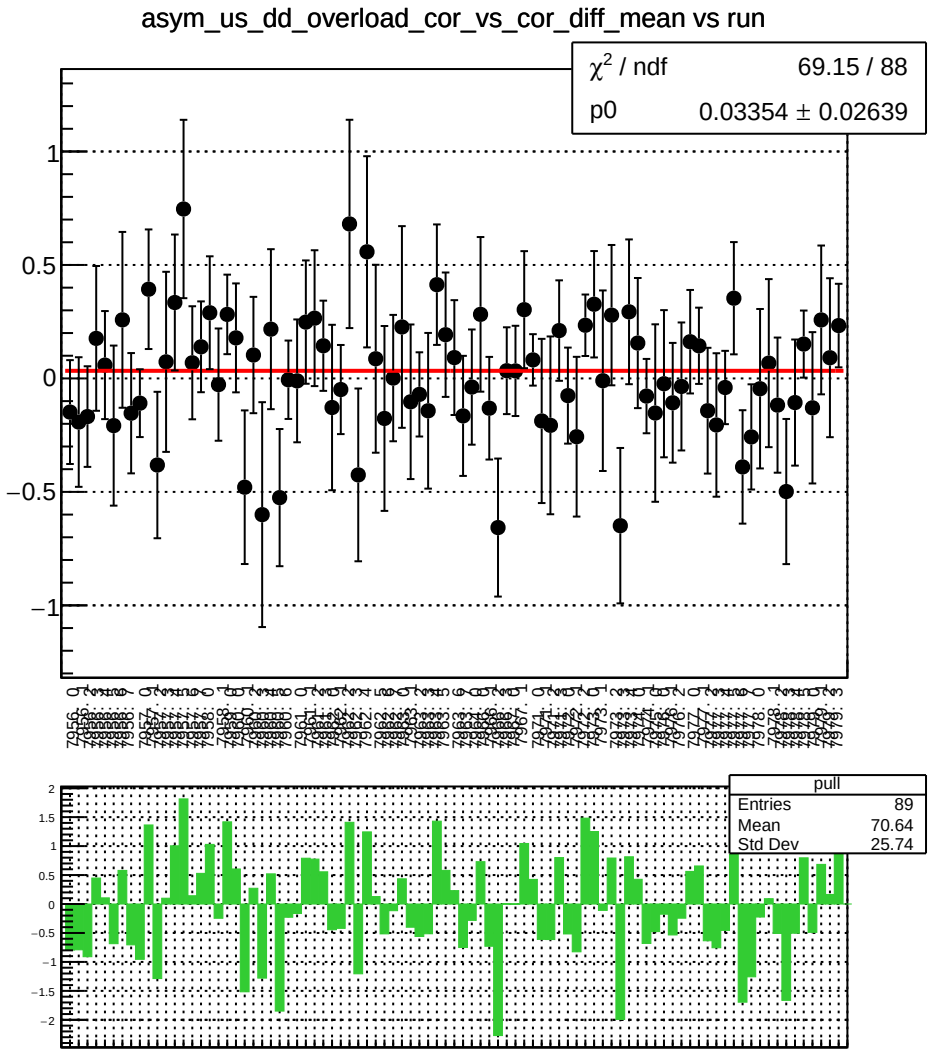

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 97.39 / 88
p0 0.02551 ± 0.05242
pull
Entries 89
Mean 62.19
Std Dev 0
pull1D
Entries 89
Mean 0.09595
Std Dev 1.042

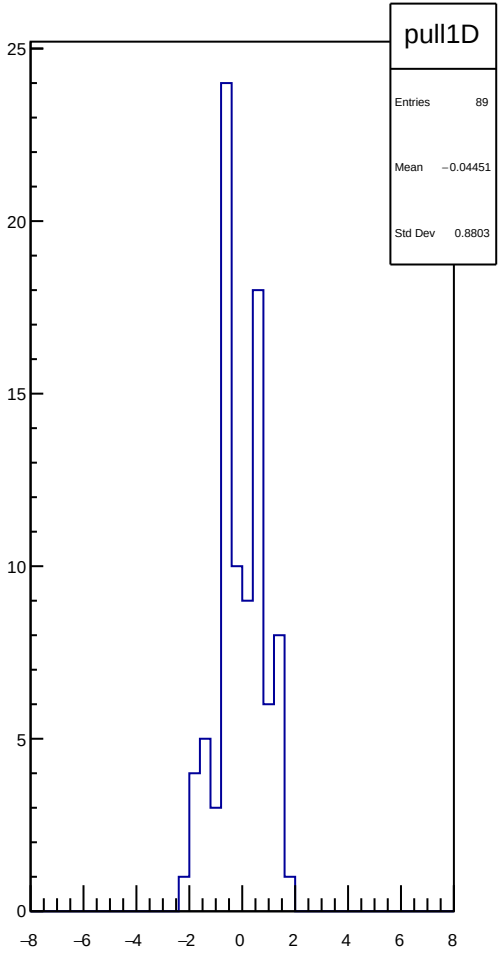

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.756e+04 / 88
p0 48.66 ± 0.03707
80
70
60
50
40
30

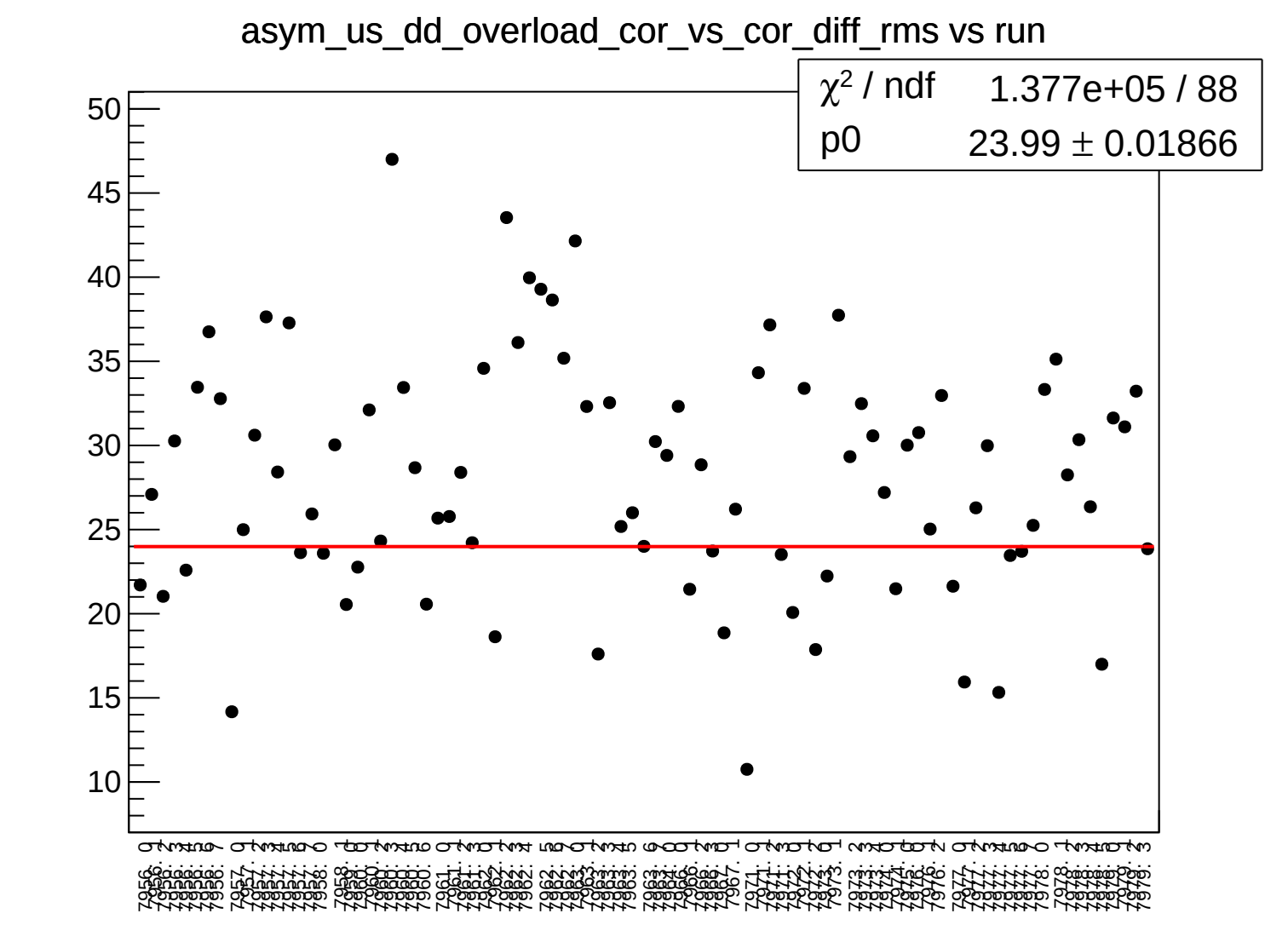

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.97 / 88
p0 1.086e−13 ± 1.477e−13
pull
Entries 89
Mean 44.68
Std Dev 35.98

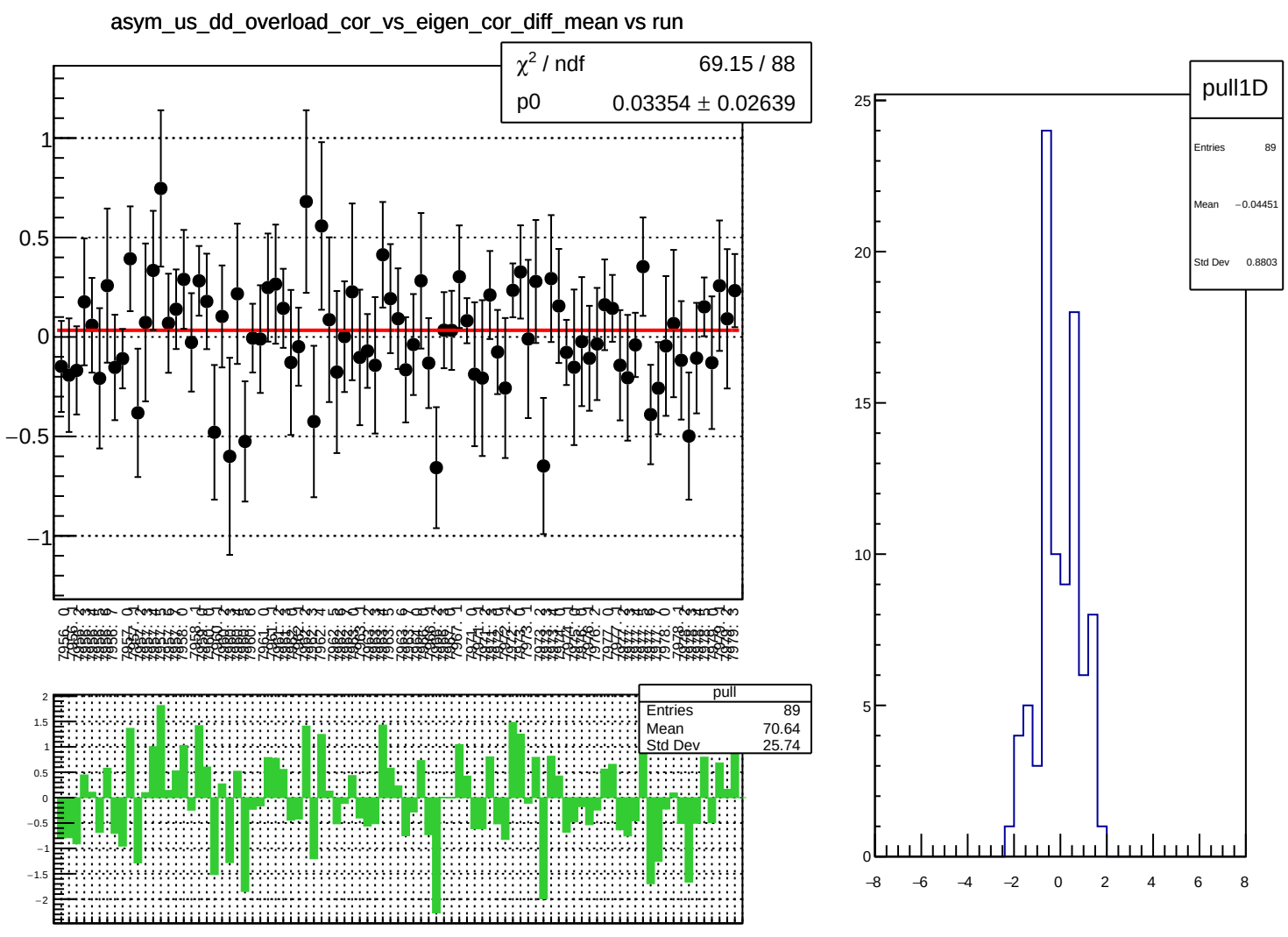

pull1D
Entries 89
Mean 0.1086
Std Dev 0.8926

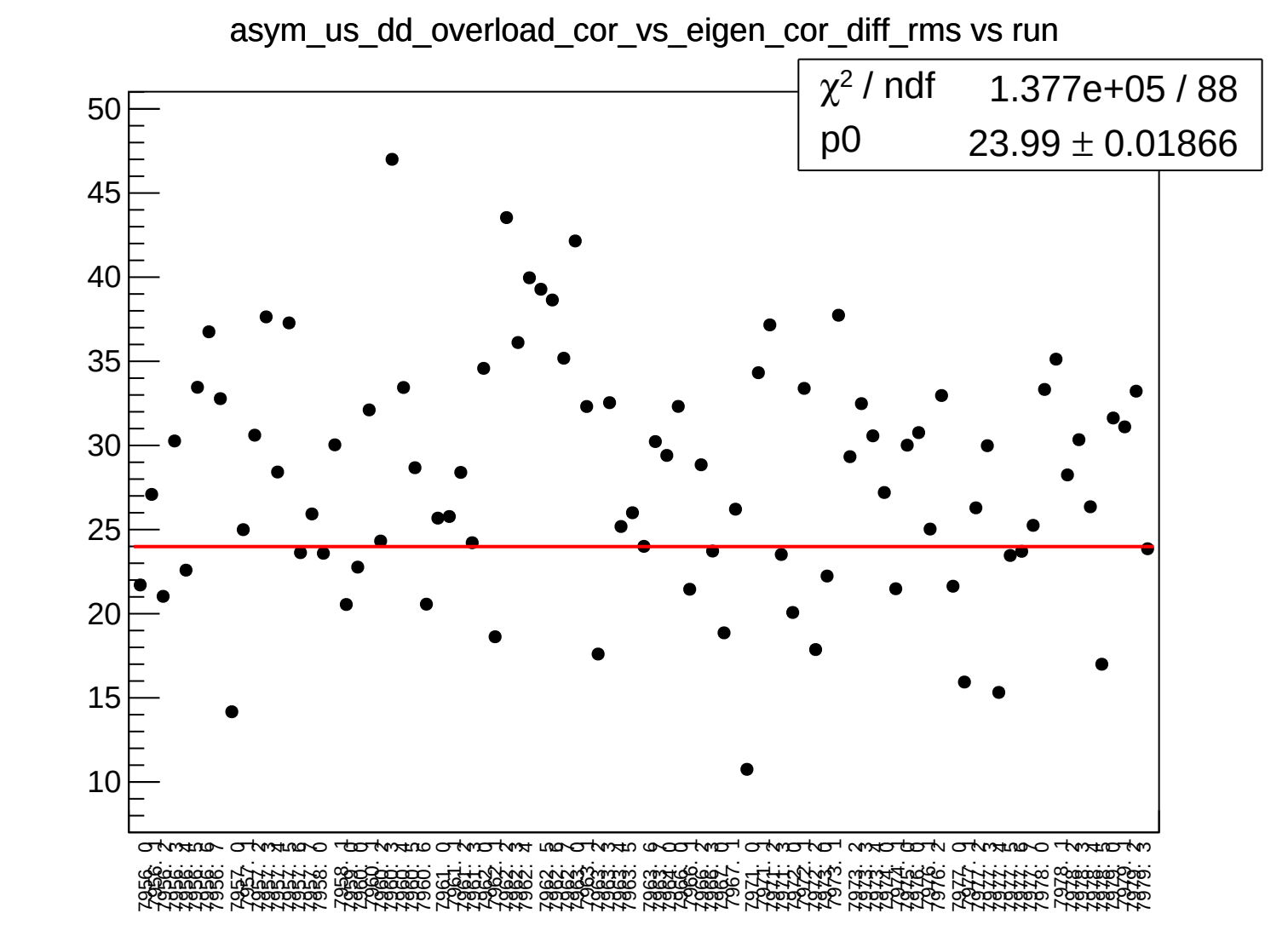

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.591e+05 / 88
p0 1.111e−10 ± 1.045e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

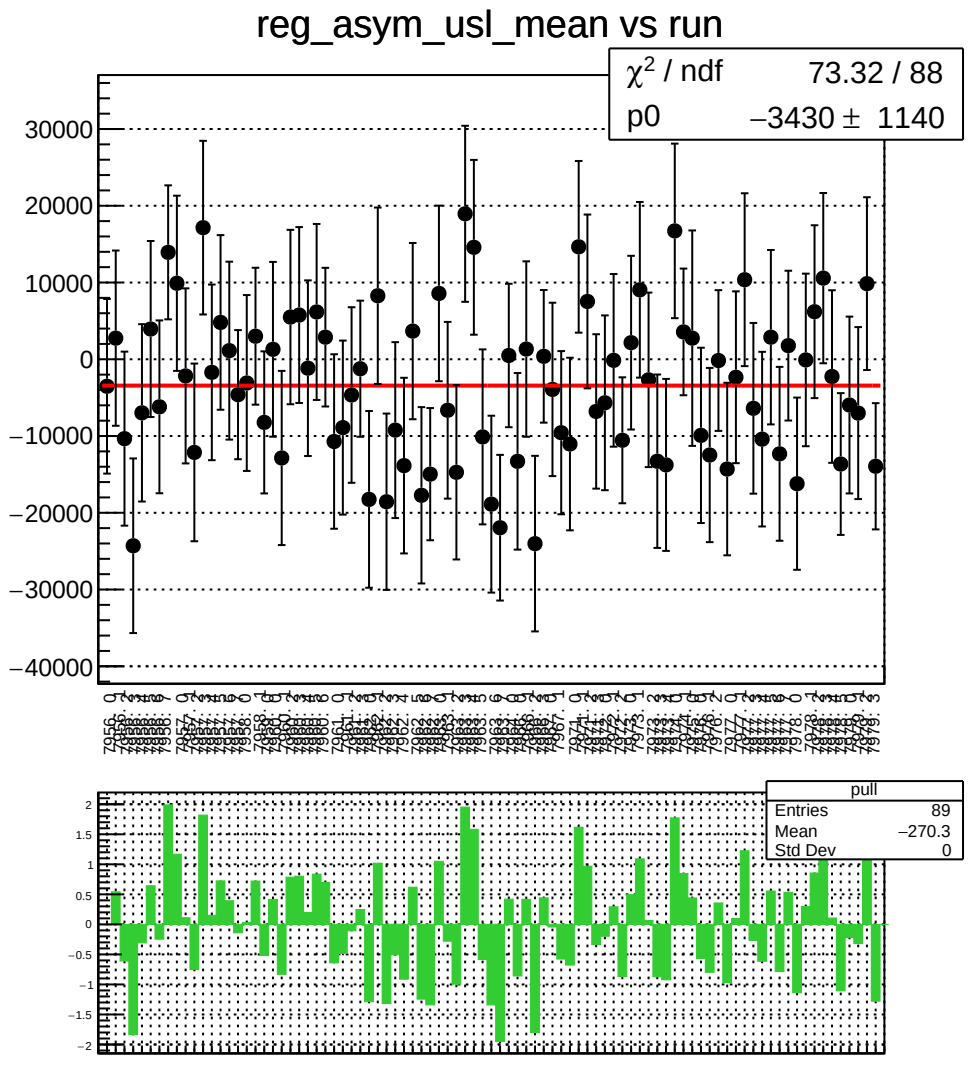

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 69.15 / 88
p0 0.03354 ± 0.02639
pull
Entries 89
Mean 70.64
Std Dev 25.74

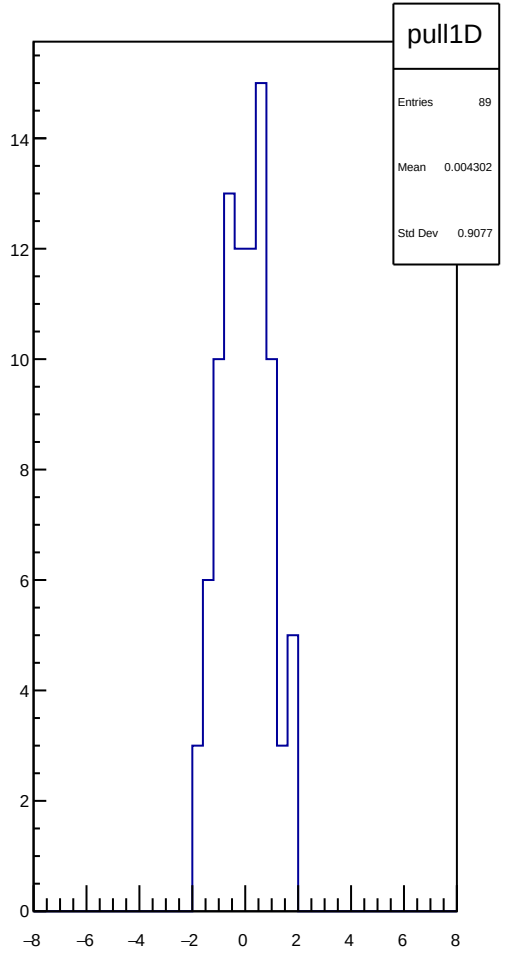

pull1D
Entries 89
Mean −0.04451
Std Dev 0.8803

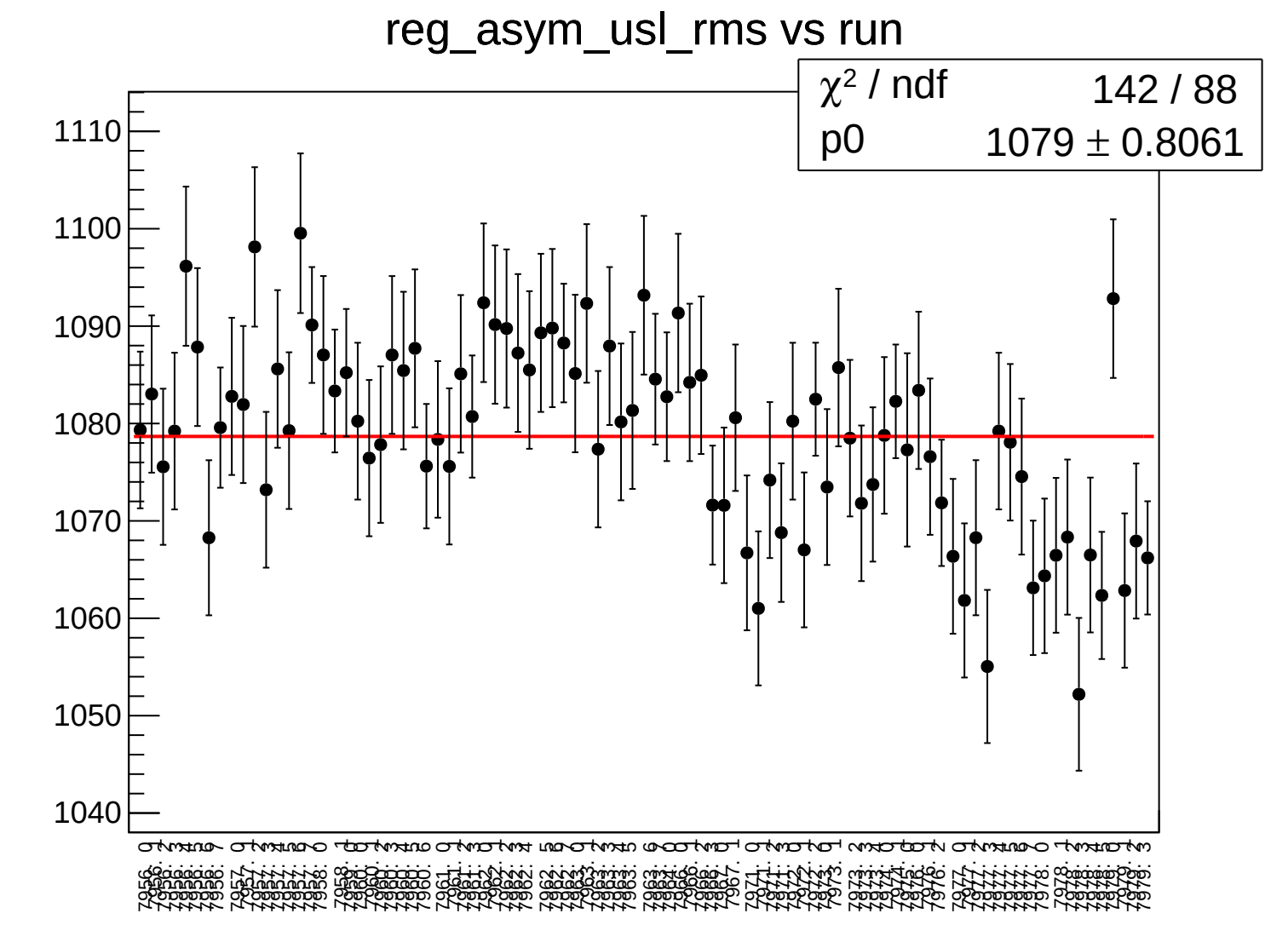

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.377e+05 / 88
p0 23.99 ± 0.01866
50
45
40
35
30
25
20
15
10

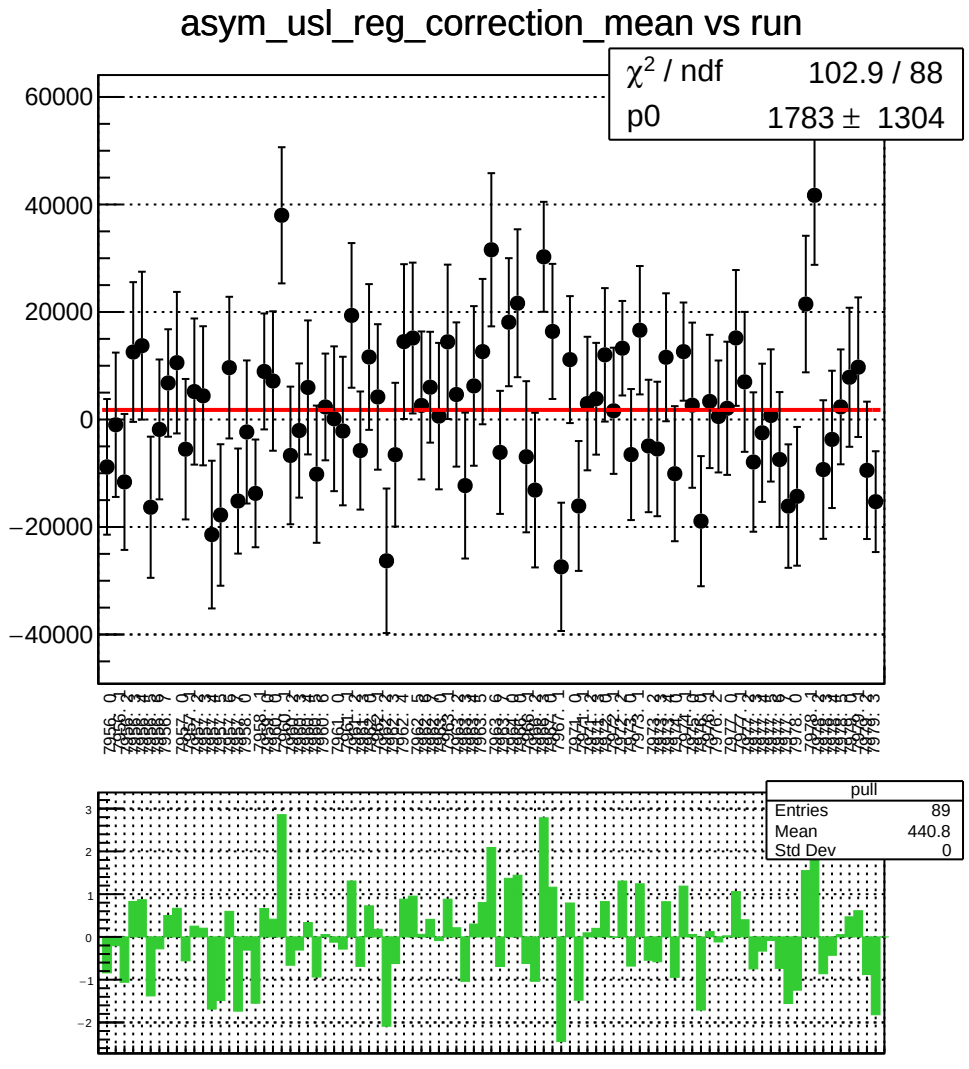

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.15 / 88
p0 0.03354 ± 0.02639
pull
Entries 89
Mean 70.64
Std Dev 25.74
pull1D
Entries 89
Mean −0.04451
Std Dev 0.8803

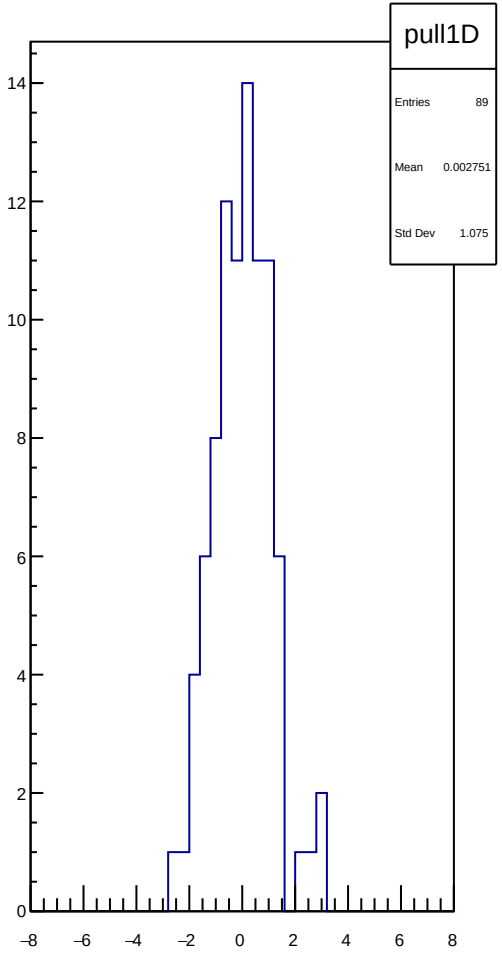

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.377e+05 / 88
p0 23.99 ± 0.01866
50
45
40
35
30
25
20
15
10

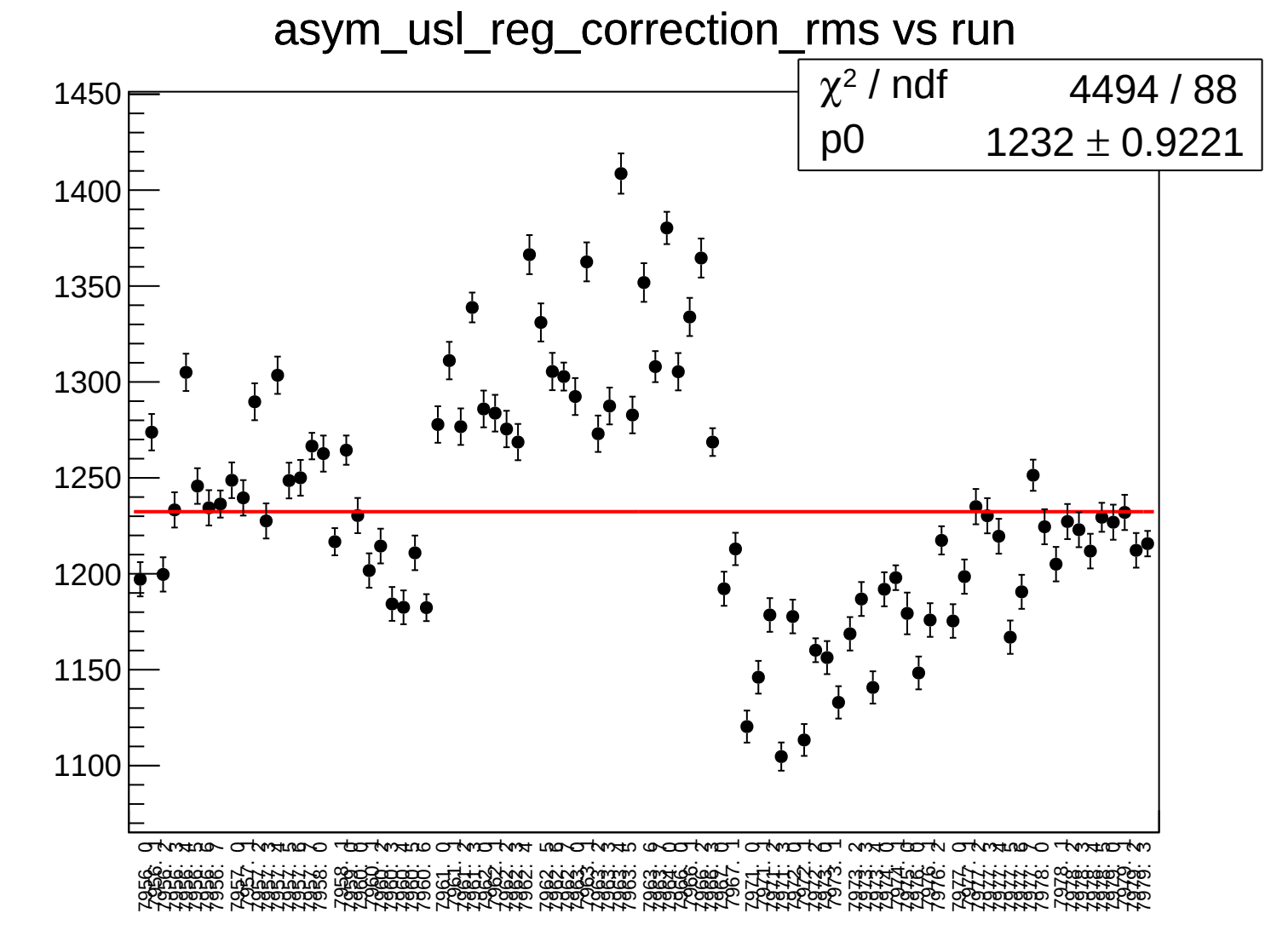

reg_asym_usl_mean vs run
χ² / ndf 73.32 / 88
p0 −3430 ± 1140
pull
Entries 89
Mean −270.3
Std Dev 0

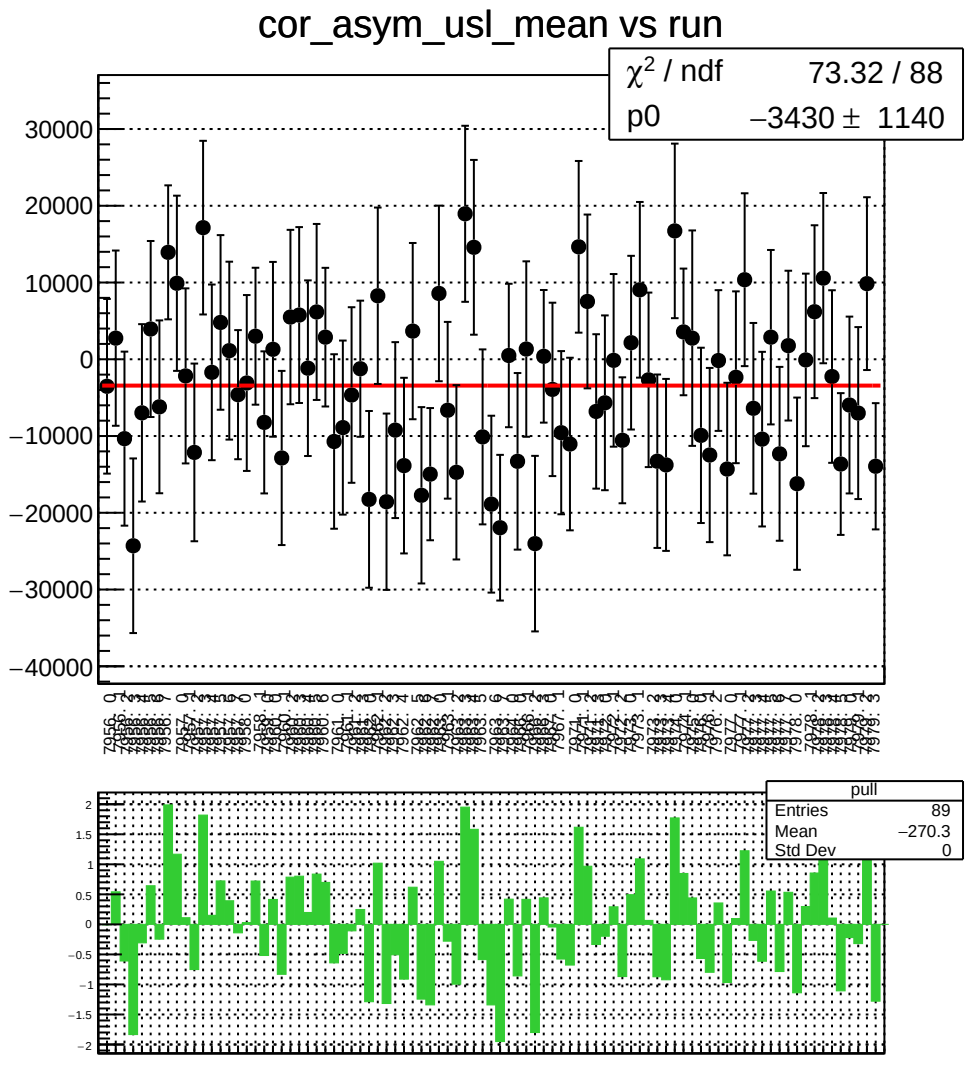

pull1D
Entries 89
Mean 0.004302
Std Dev 0.9077

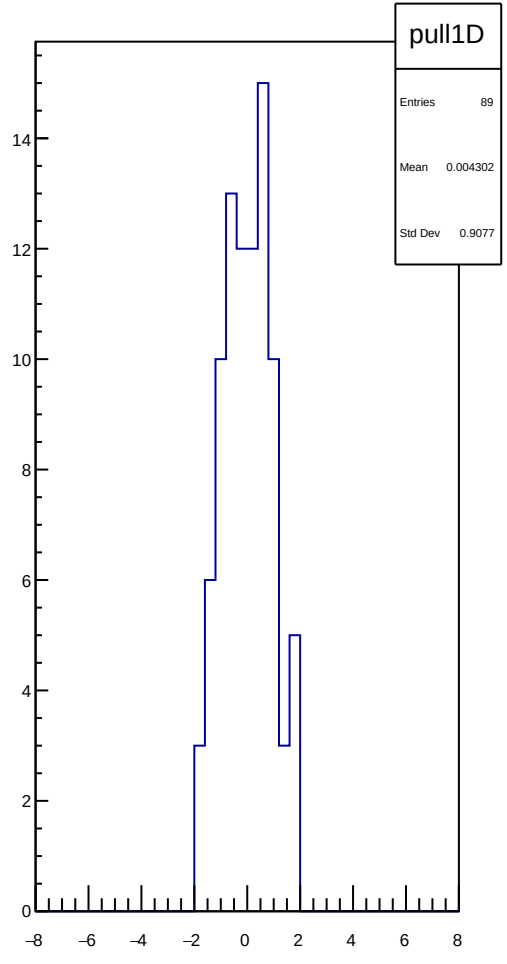

reg_asym_usl_rms vs run
χ² / ndf 142 / 88
p0 1079 ± 0.8061
1110
1100
1090
1080
1070
1060
1050
1040

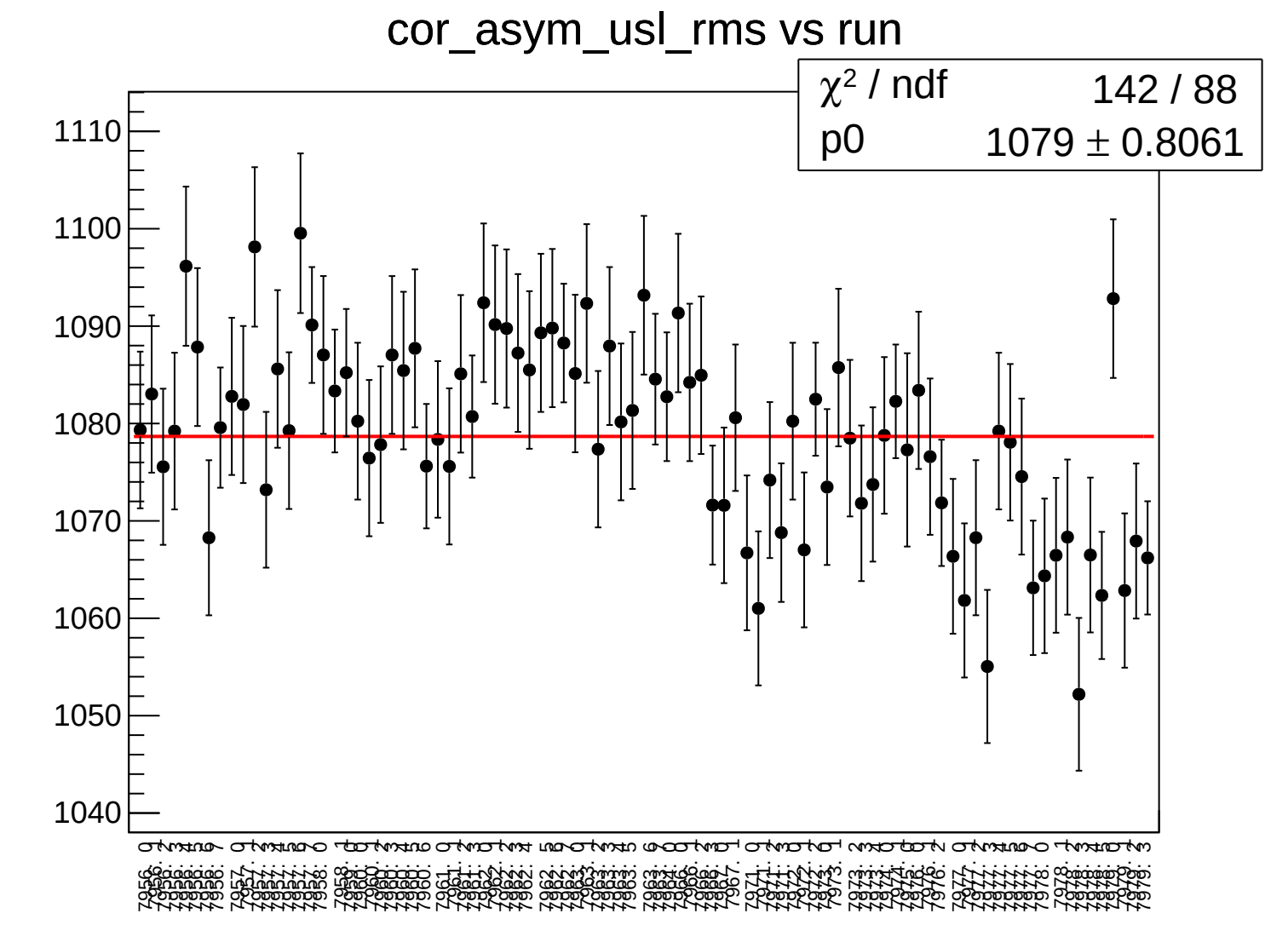

asym_usl_reg_correction_mean vs run
χ² / ndf 102.9 / 88
p0 1783 ± 1304
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 440.8
Std Dev 0
3
2
1
0
−1
−2

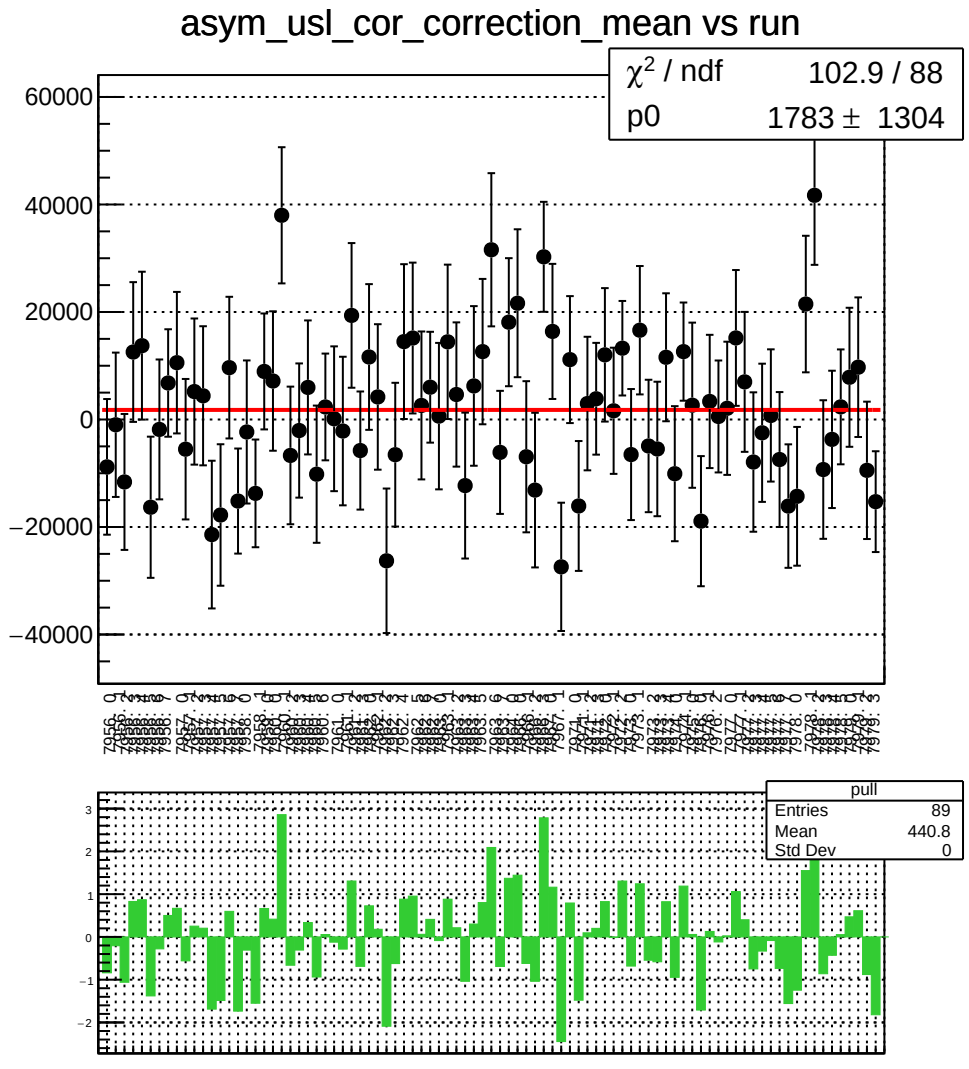

pull1D
Entries 89
Mean 0.002751
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

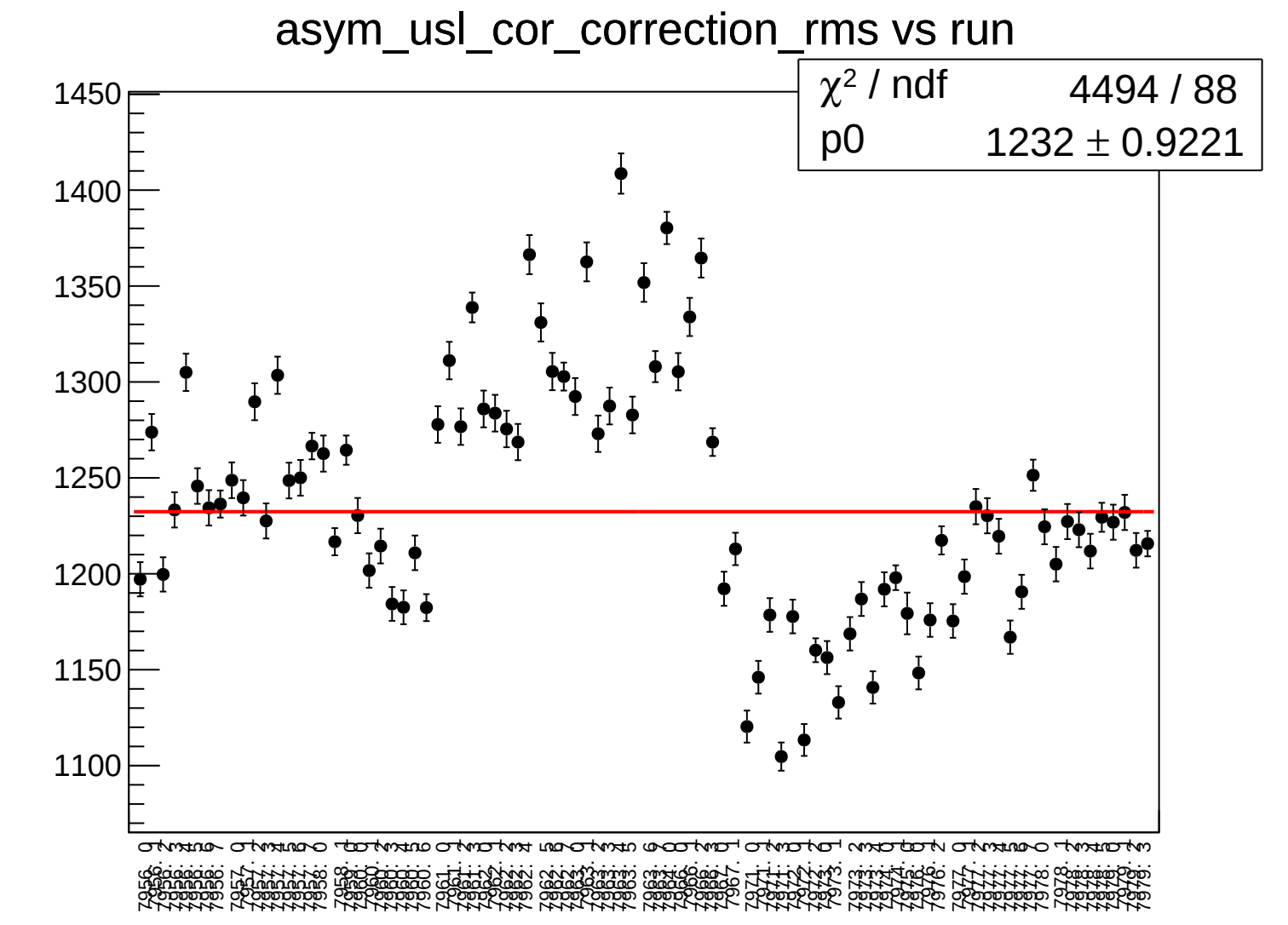

asym_usl_reg_correction_rms vs run
χ² / ndf 4494 / 88
p0 1232 ± 0.9221
1450
1400
1350
1300
1250
1200
1150
1100

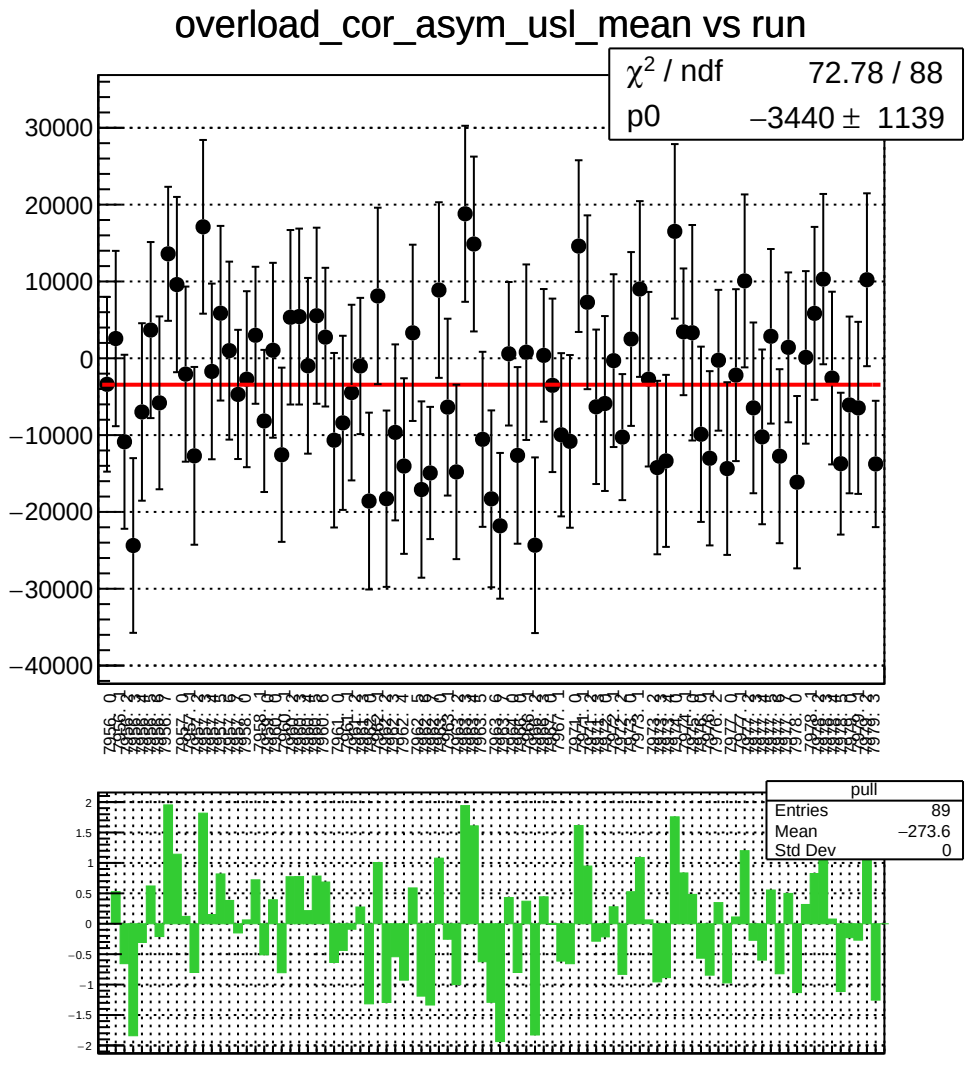

cor_asym_usl_mean vs run
χ² / ndf 73.32 / 88
p0 −3430 ± 1140
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −270.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

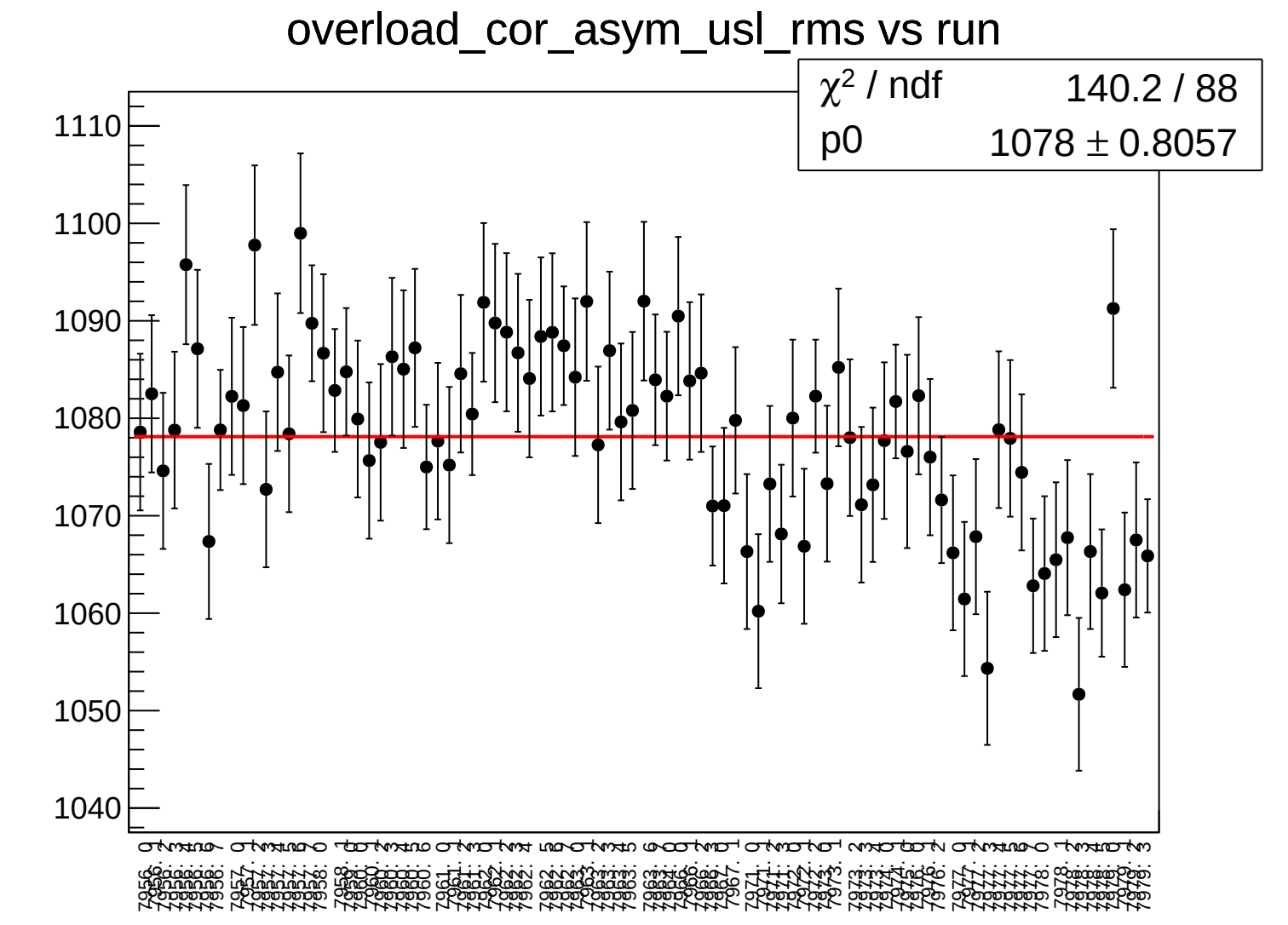

pull1D
Entries 89
Mean 0.004302
Std Dev 0.9077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

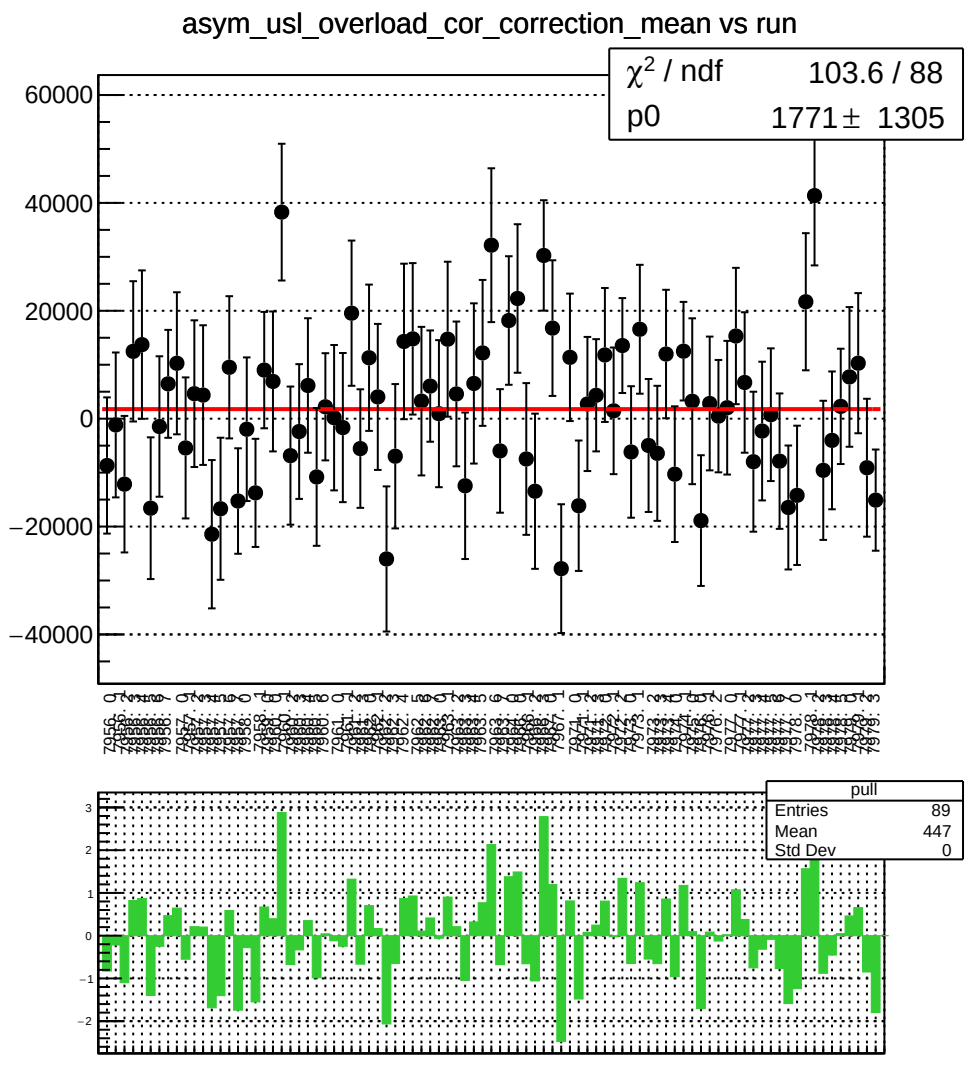

cor_asym_usl_rms vs run
χ² / ndf 142 / 88
p0 1079 ± 0.8061
1110
1100
1090
1080
1070
1060
1050
1040

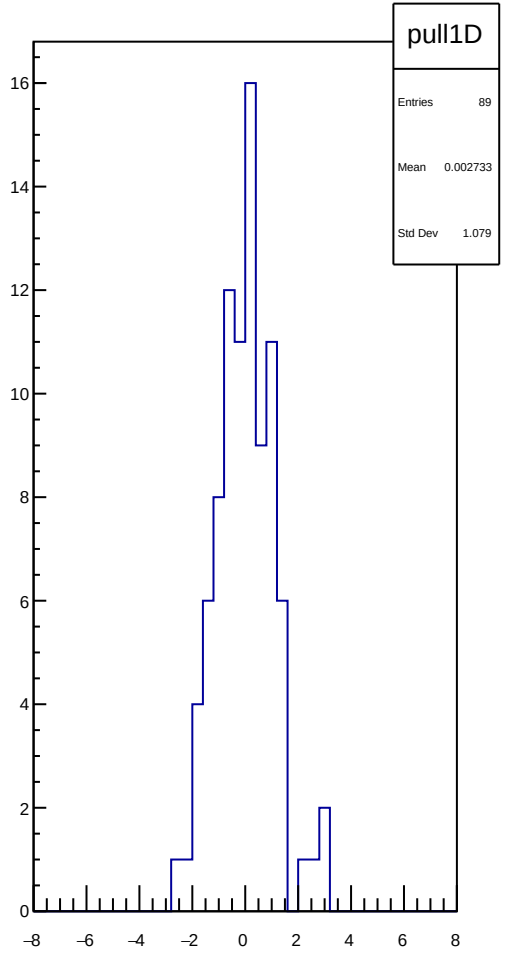

asym_usl_cor_correction_mean vs run
χ² / ndf 102.9 / 88
p0 1783 ± 1304
pull
Entries 89
Mean 440.8
Std Dev 0
pull1D
Entries 89
Mean 0.002751
Std Dev 1.075

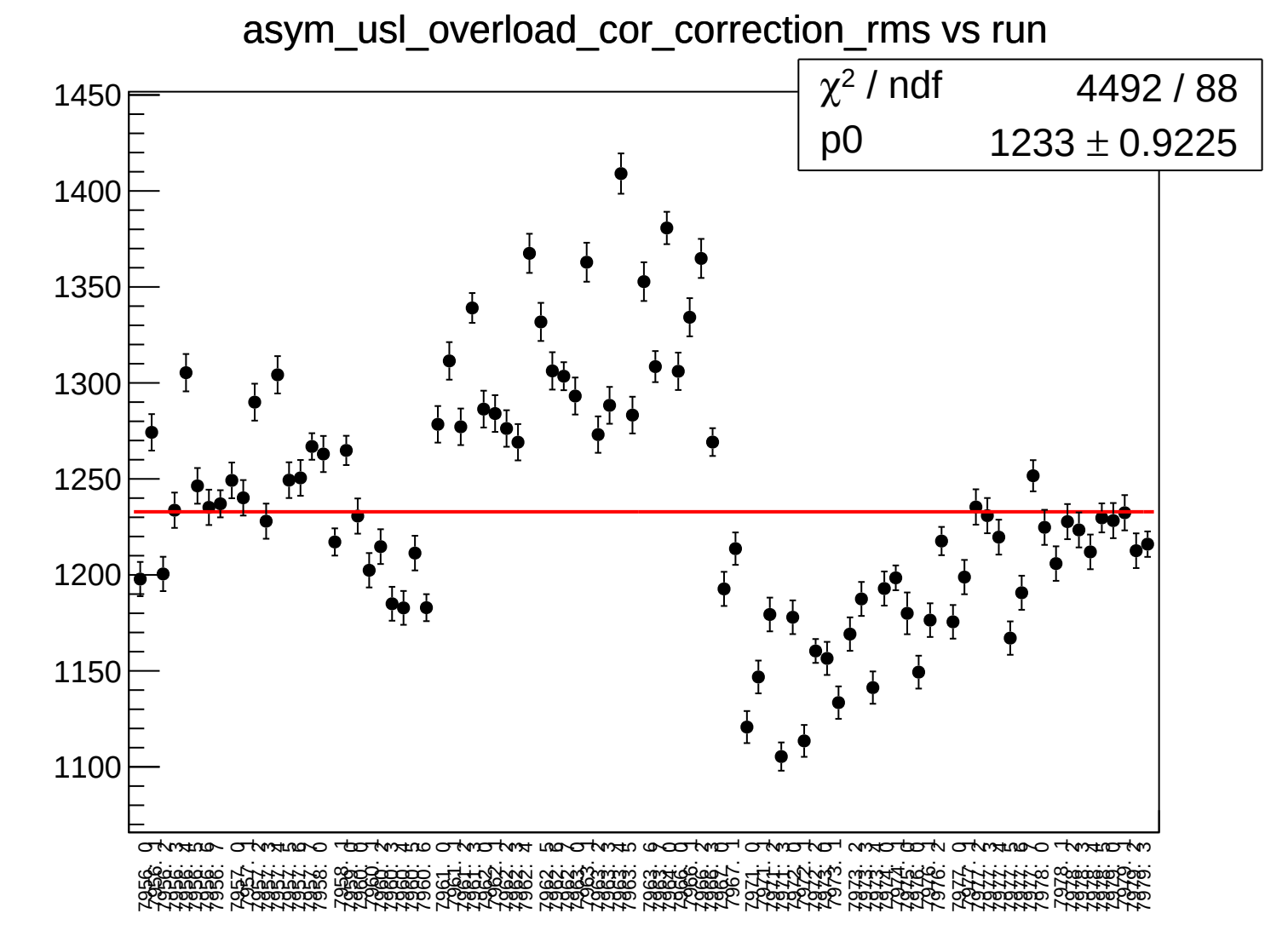

asym_usl_cor_correction_rms vs run
χ² / ndf 4494 / 88
p0 1232 ± 0.9221
1450
1400
1350
1300
1250
1200
1150
1100

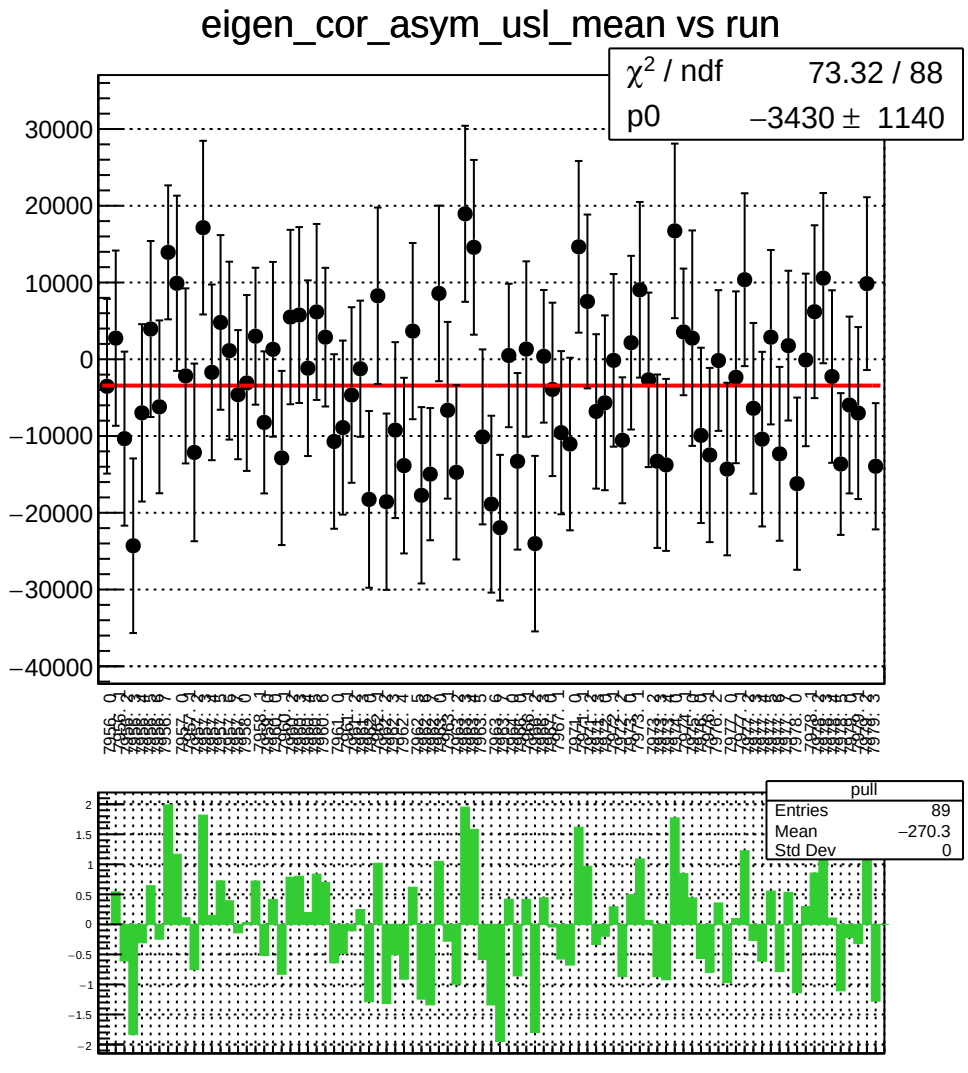

overload_cor_asym_usl_mean vs run
χ² / ndf 72.78 / 88
p0 −3440 ± 1139
pull
Entries 89
Mean −273.6
Std Dev 0
pull1D
Entries 89
Mean 0.004227
Std Dev 0.9043

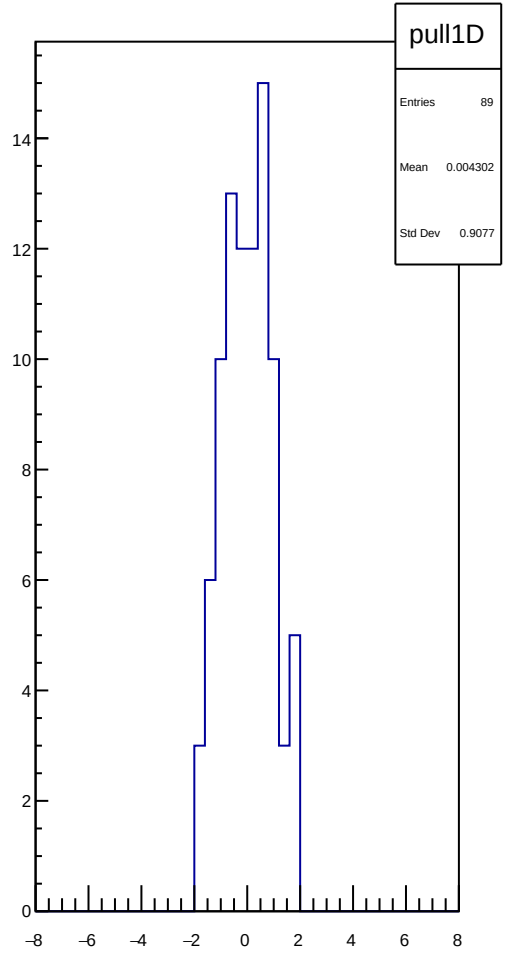

overload_cor_asym_usl_rms vs run
χ² / ndf 140.2 / 88
p0 1078 ± 0.8057
1110
1100
1090
1080
1070
1060
1050
1040

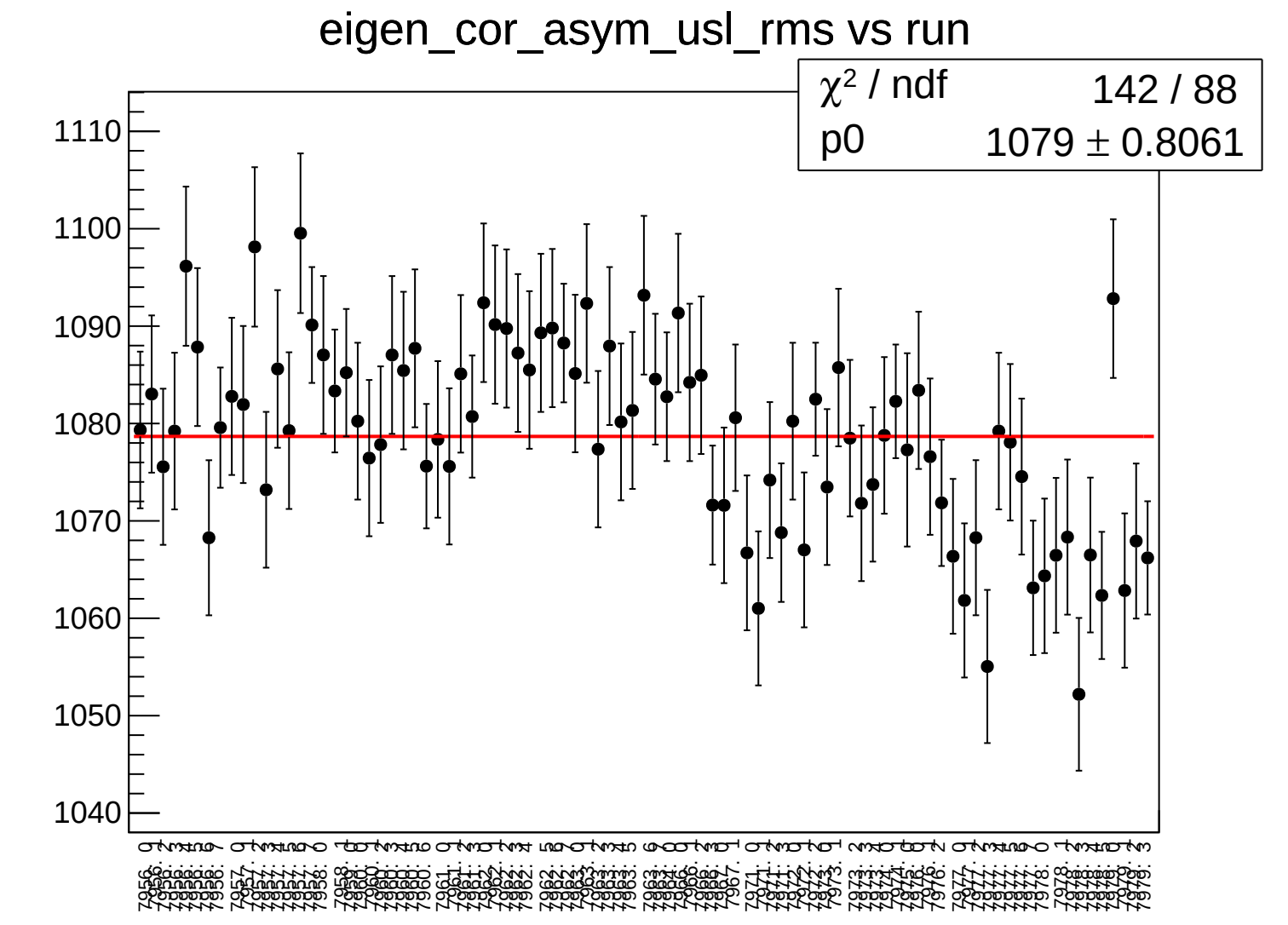

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 103.6 / 88
p0 1771 ± 1305
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 447
Std Dev 0
3
2
1
0
−1
−2

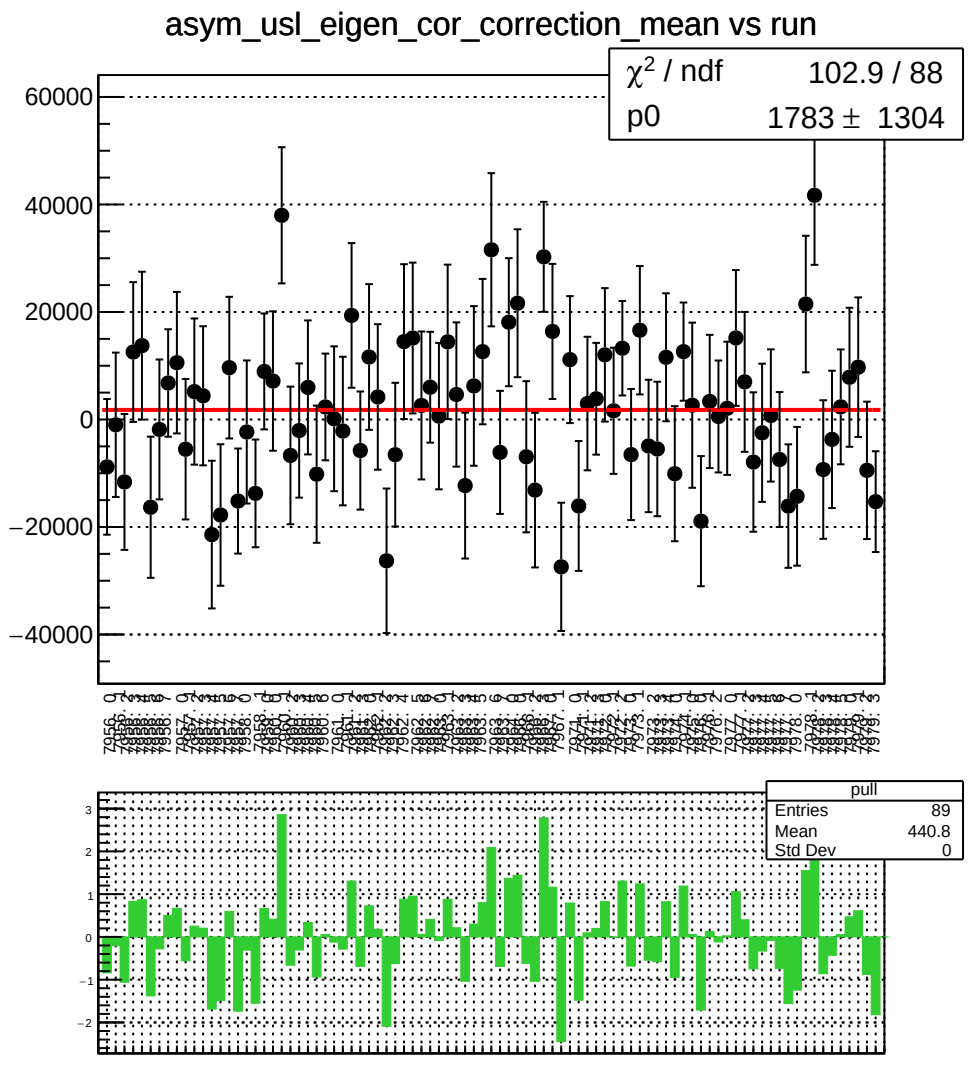

pull1D
Entries 89
Mean 0.002733
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

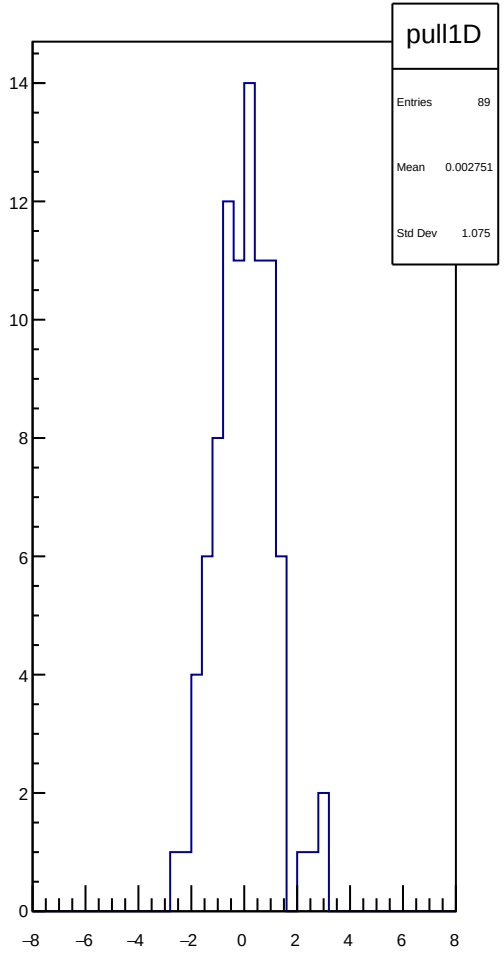

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 4492 / 88
p0 1233 ± 0.9225
1450
1400
1350
1300
1250
1200
1150
1100

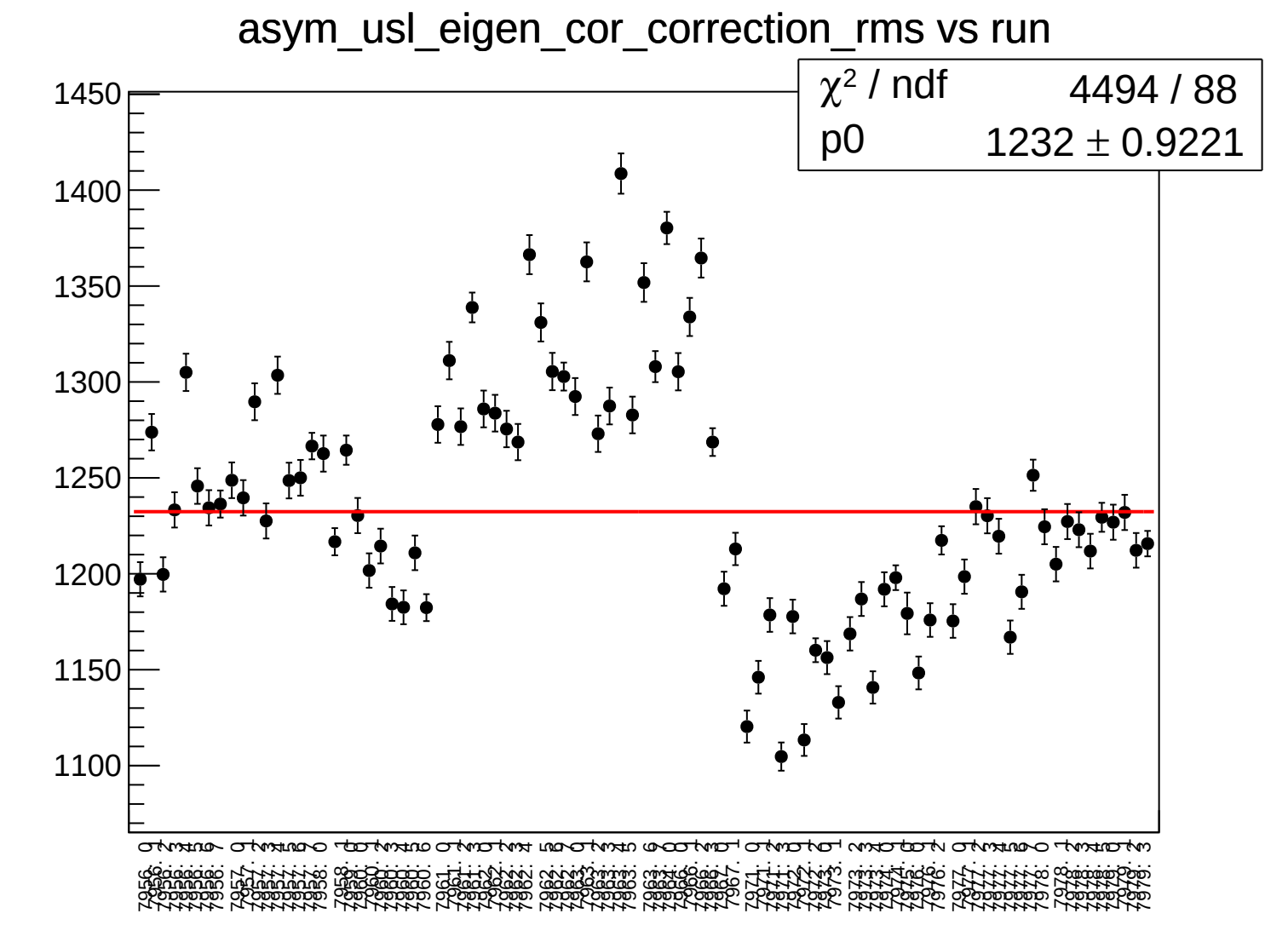

eigen_cor_asym_usl_mean vs run
χ² / ndf 73.32 / 88
p0 −3430 ± 1140
pull
Entries 89
Mean −270.3
Std Dev 0

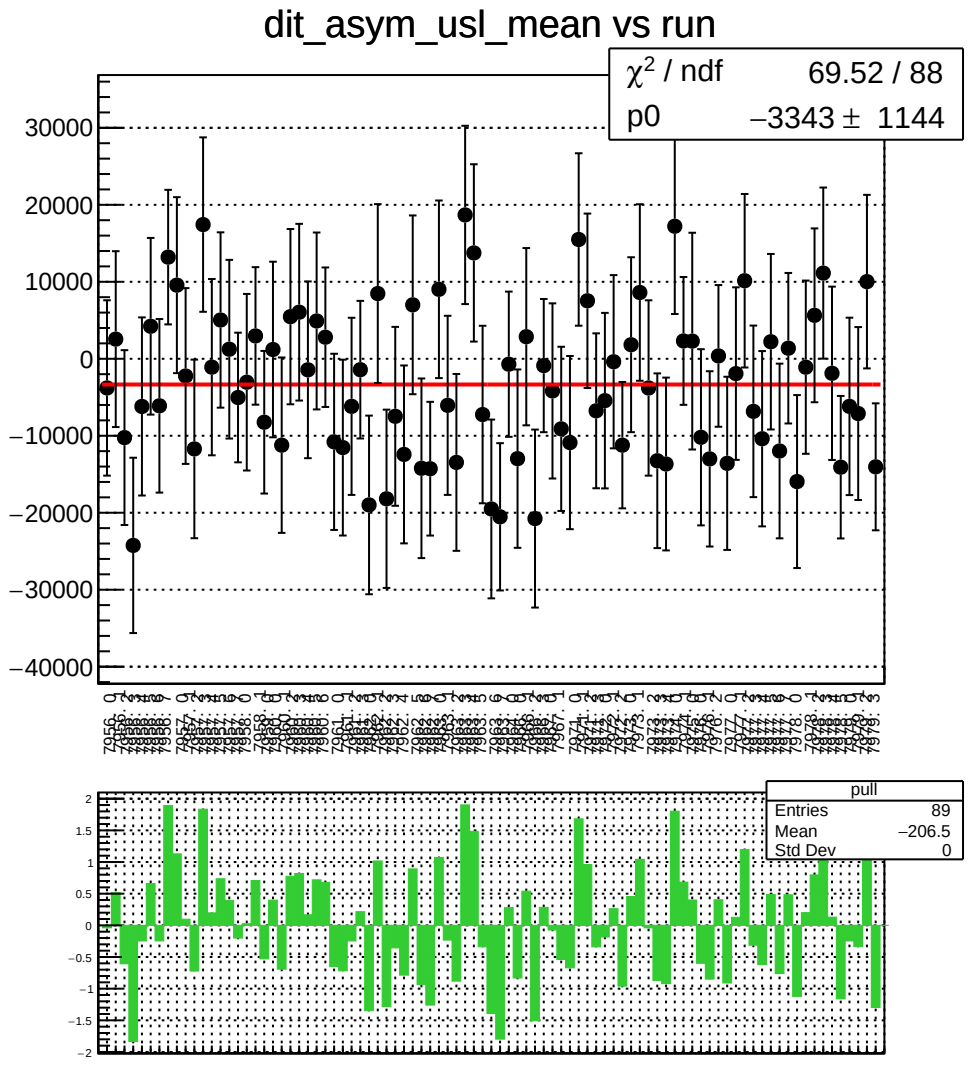

pull1D
Entries 89
Mean 0.004302
Std Dev 0.9077

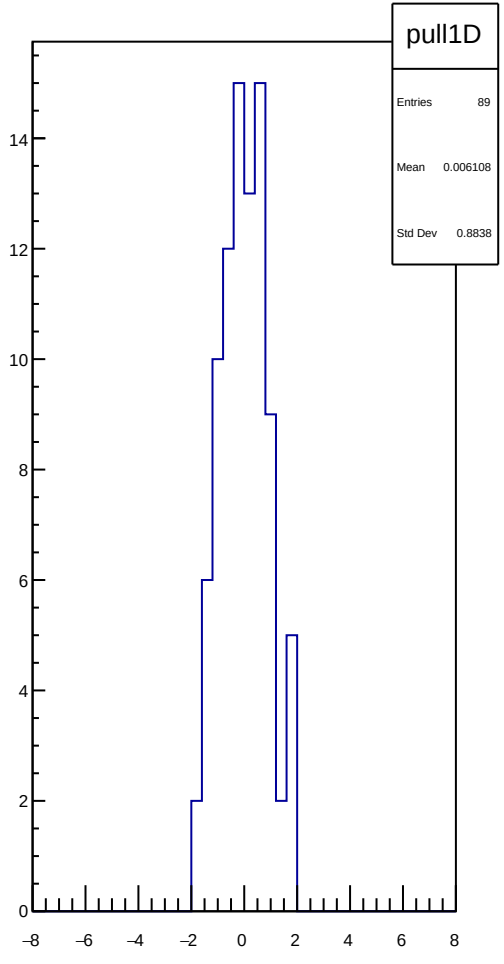

eigen_cor_asym_usl_rms vs run
χ² / ndf 142 / 88
p0 1079 ± 0.8061
1110
1100
1090
1080
1070
1060
1050
1040

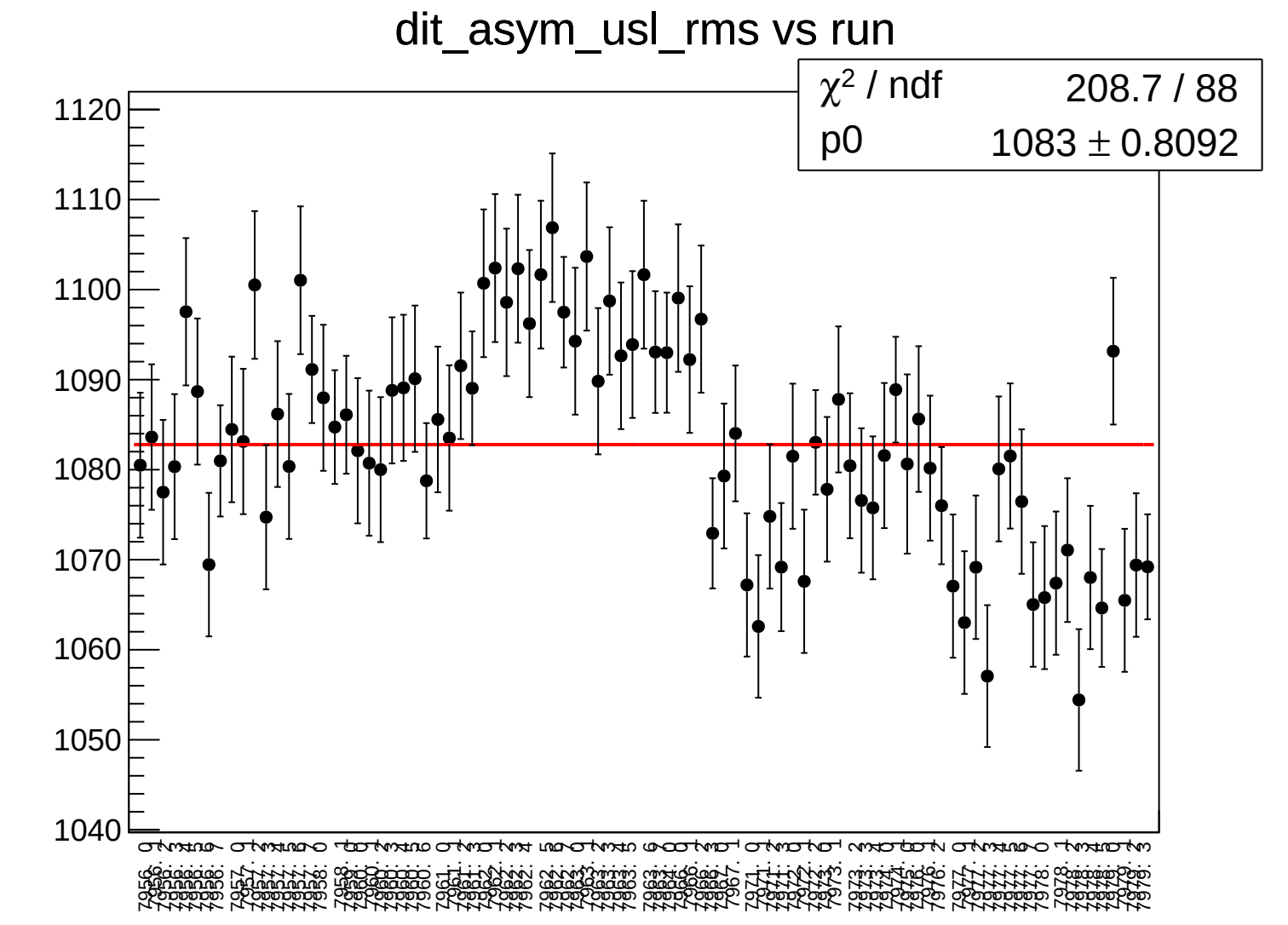

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 102.9 / 88
p0 1783 ± 1304
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 440.8
Std Dev 0
3
2
1
0
−1
−2

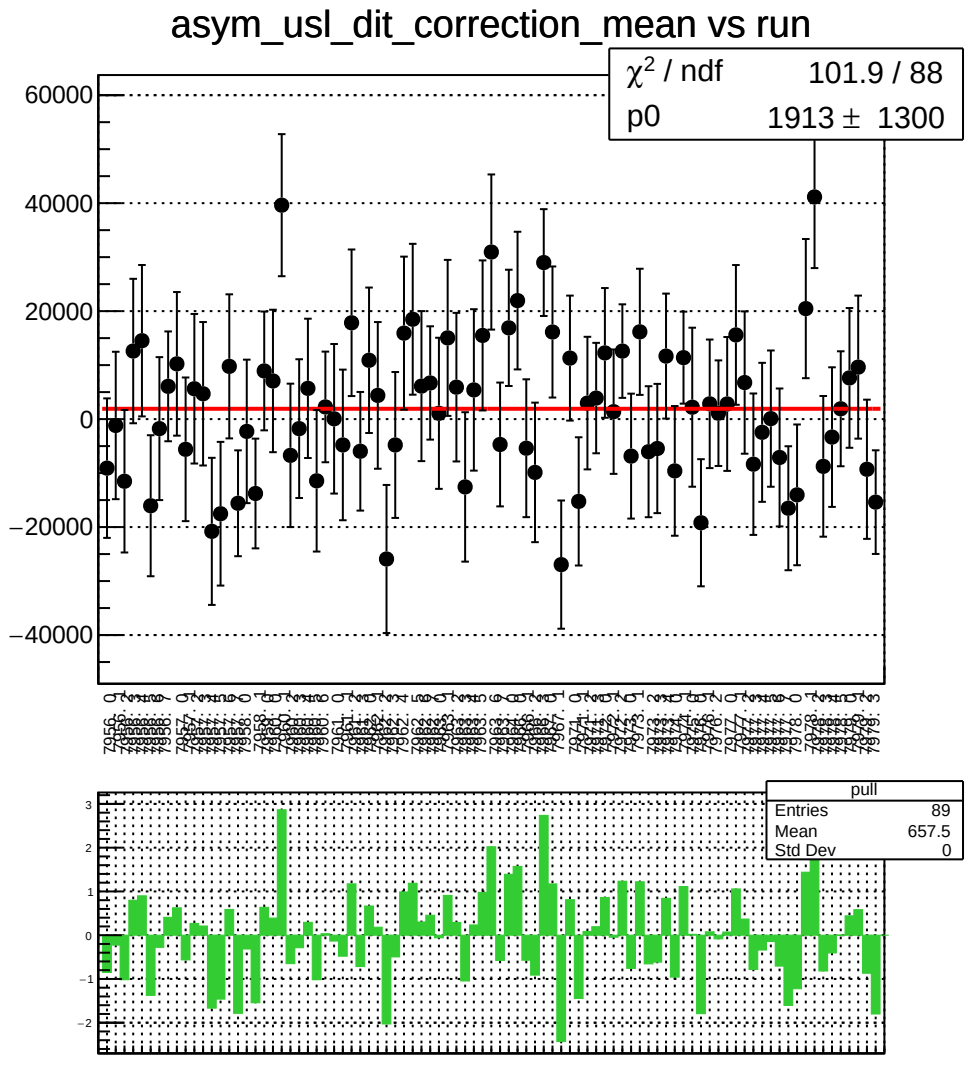

pull1D
Entries 89
Mean 0.002751
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

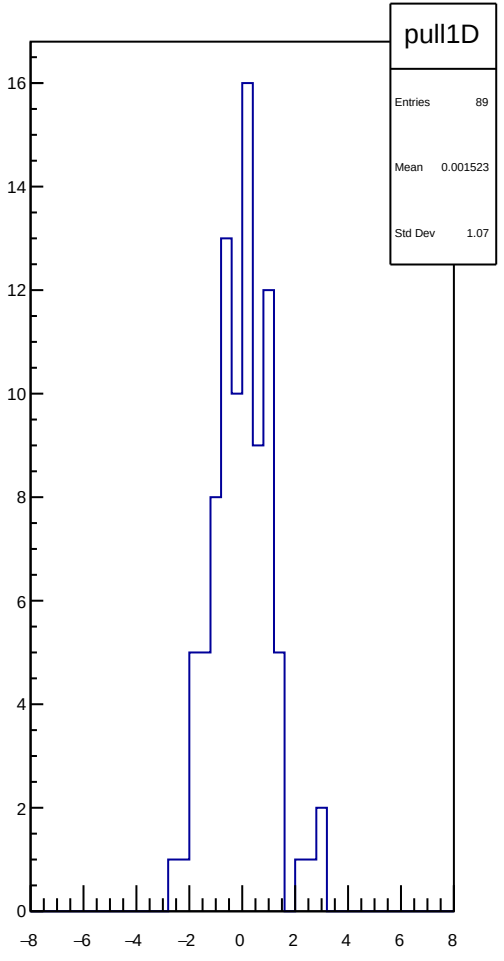

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 4494 / 88
p0 1232 ± 0.9221
1450
1400
1350
1300
1250
1200
1150
1100

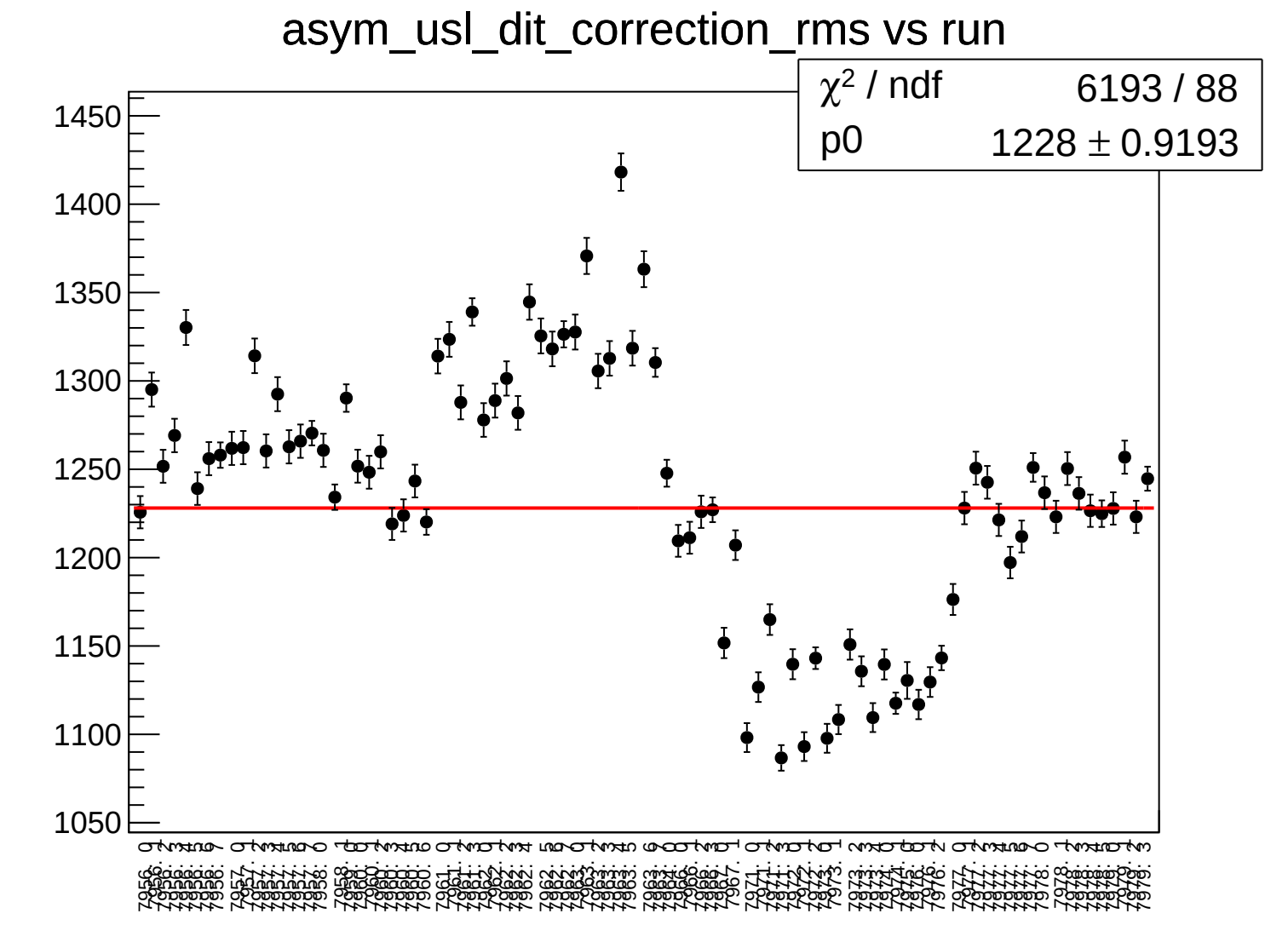

dit_asym_usl_mean vs run
$\chi^2$ / ndf 69.52 / 88
p0 −3343 ± 1144
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −206.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

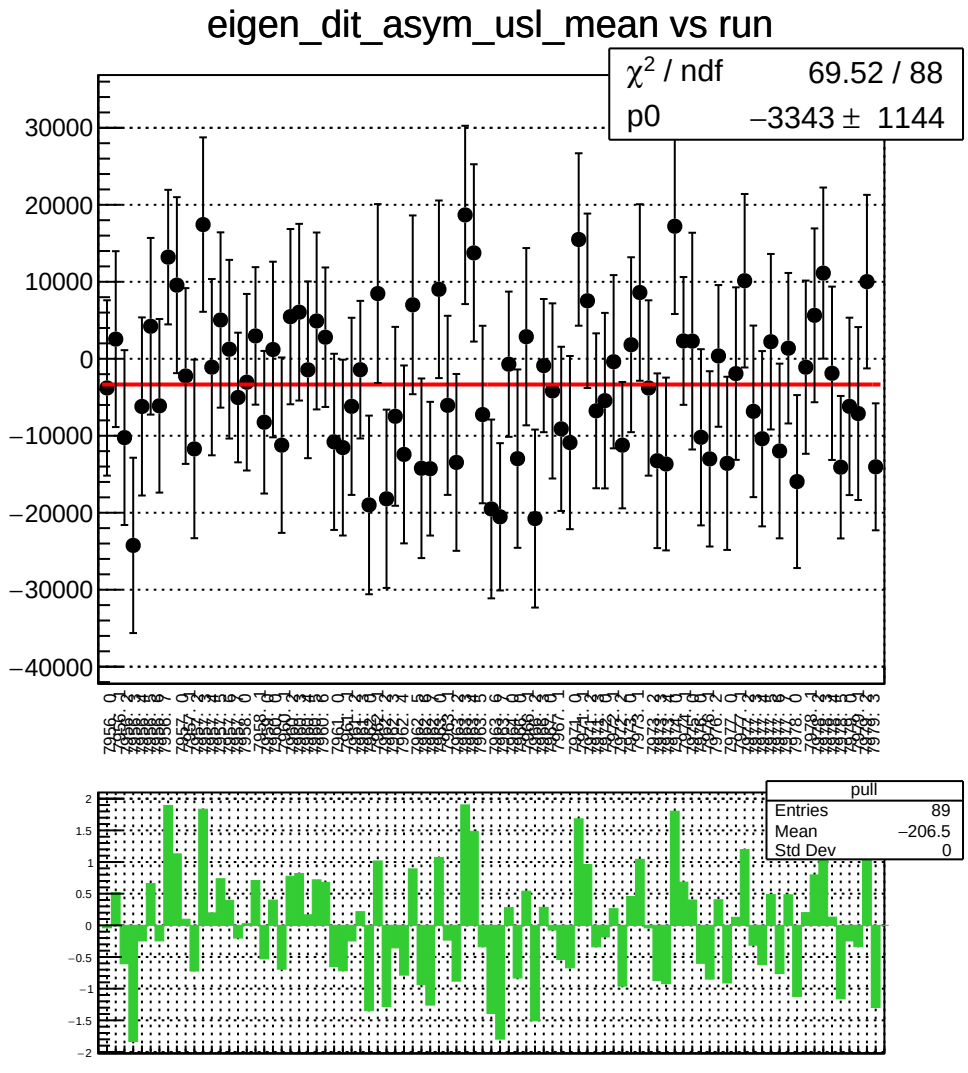

pull1D
Entries 89
Mean 0.006108
Std Dev 0.8838
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

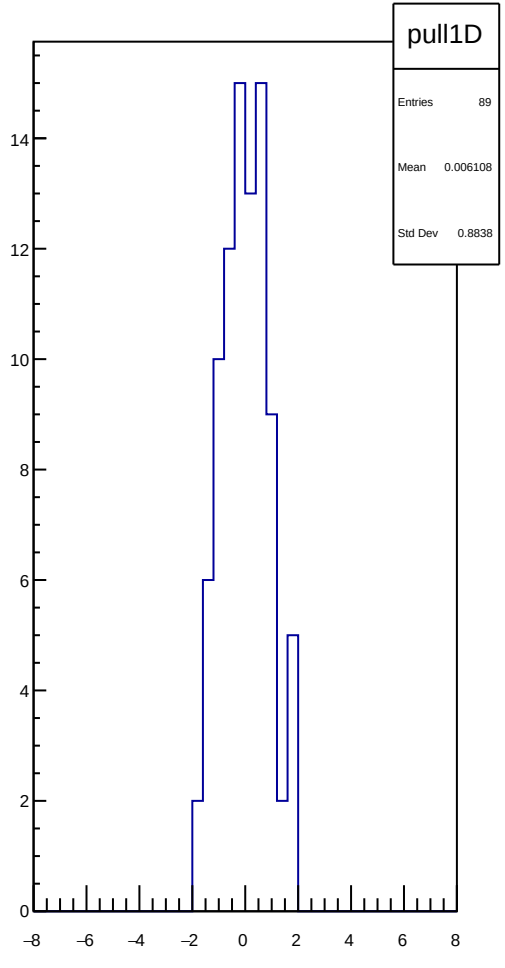

dit_asym_usl_rms vs run
χ² / ndf 208.7 / 88
p0 1083 ± 0.8092
1120
1110
1100
1090
1080
1070
1060
1050
1040

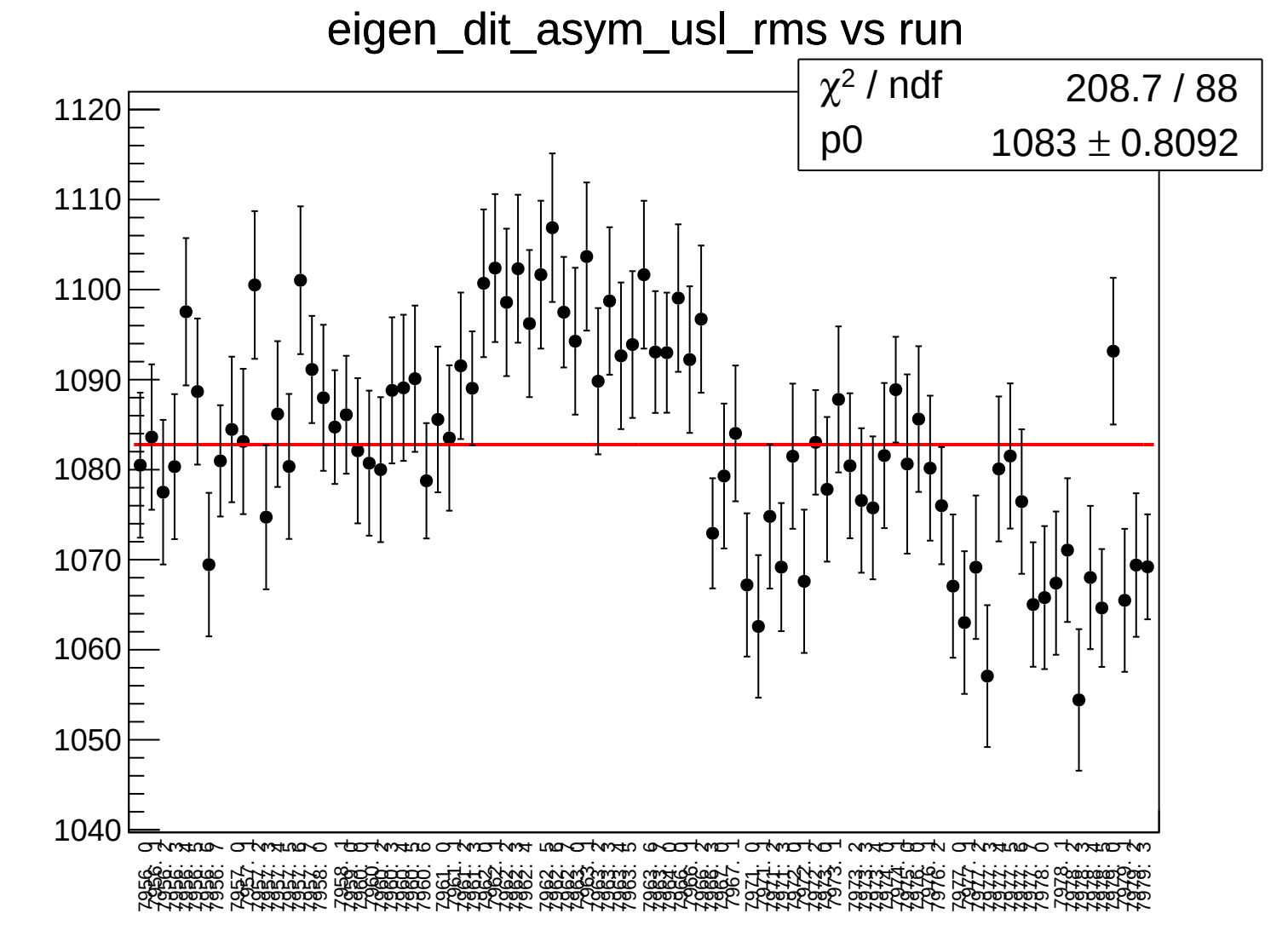

asym_usl_dit_correction_mean vs run
χ² / ndf 101.9 / 88
p0 1913 ± 1300
pull
Entries 89
Mean 657.5
Std Dev 0

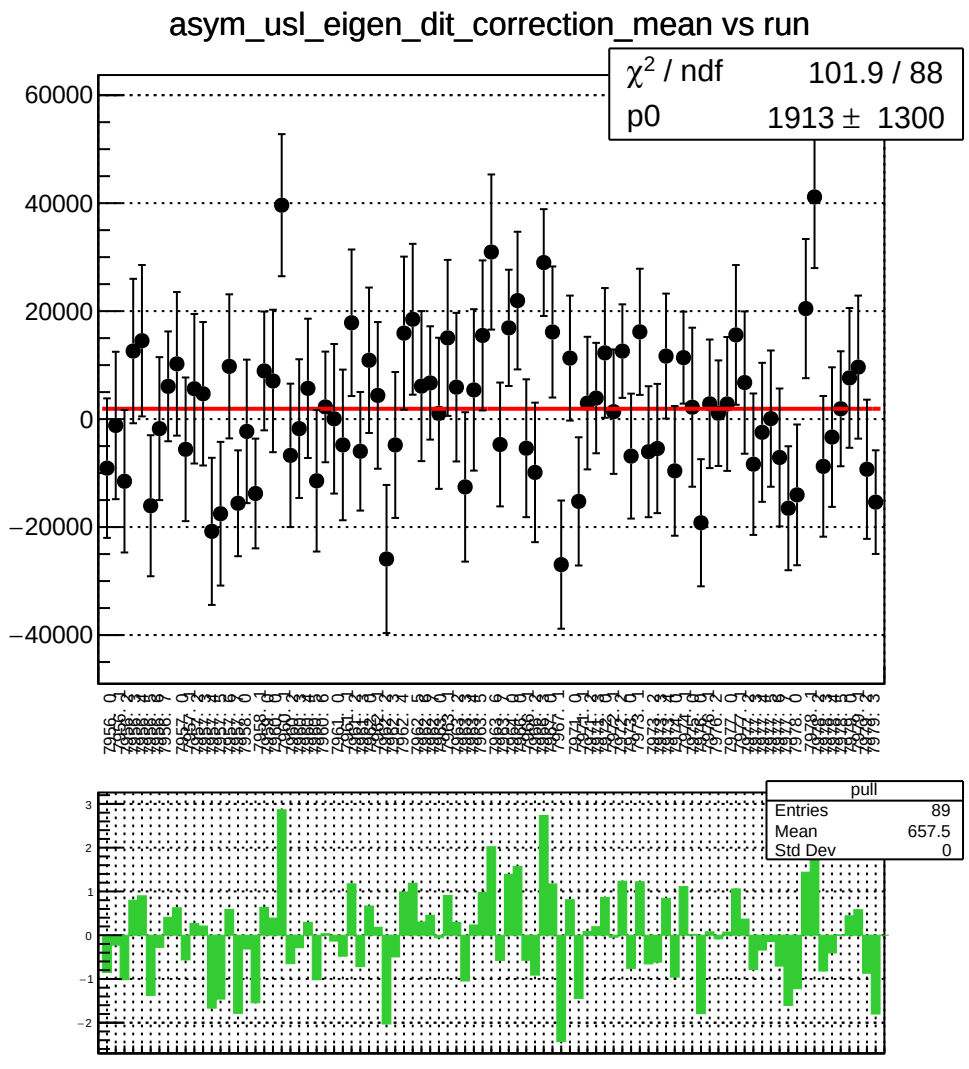

pull1D
Entries 89
Mean 0.001523
Std Dev 1.07

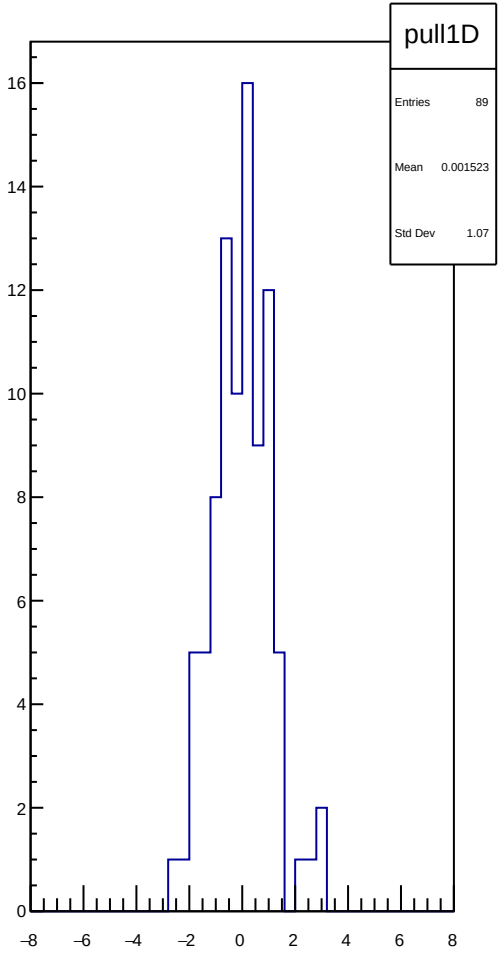

asym_usl_dit_correction_rms vs run
χ² / ndf 6193 / 88
p0 1228 ± 0.9193
1450
1400
1350
1300
1250
1200
1150
1100
1050

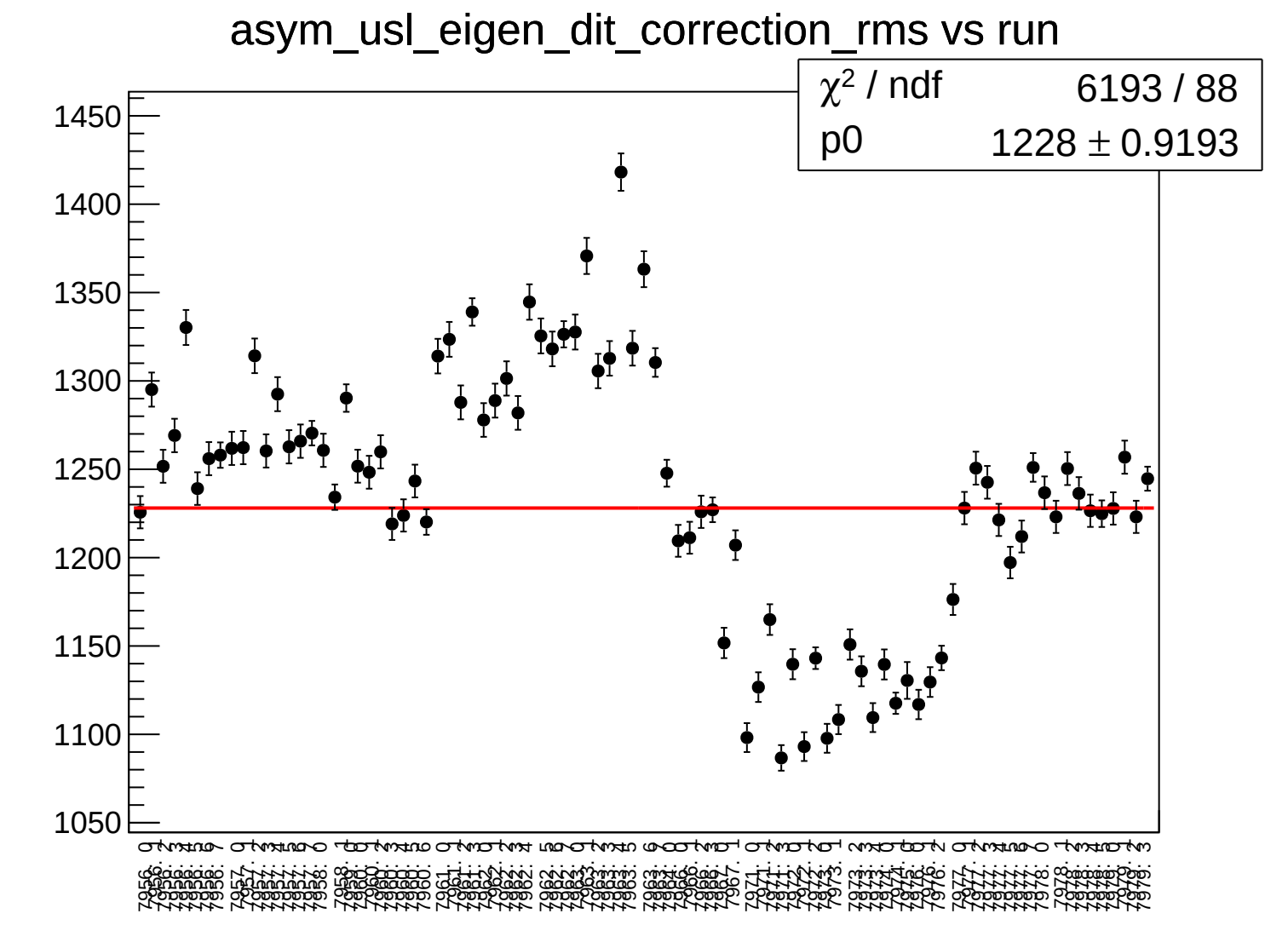

eigen_dit_asym_usl_mean vs run
χ² / ndf 69.52 / 88
p0 −3343 ± 1144
pull
Entries 89
Mean −206.5
Std Dev 0

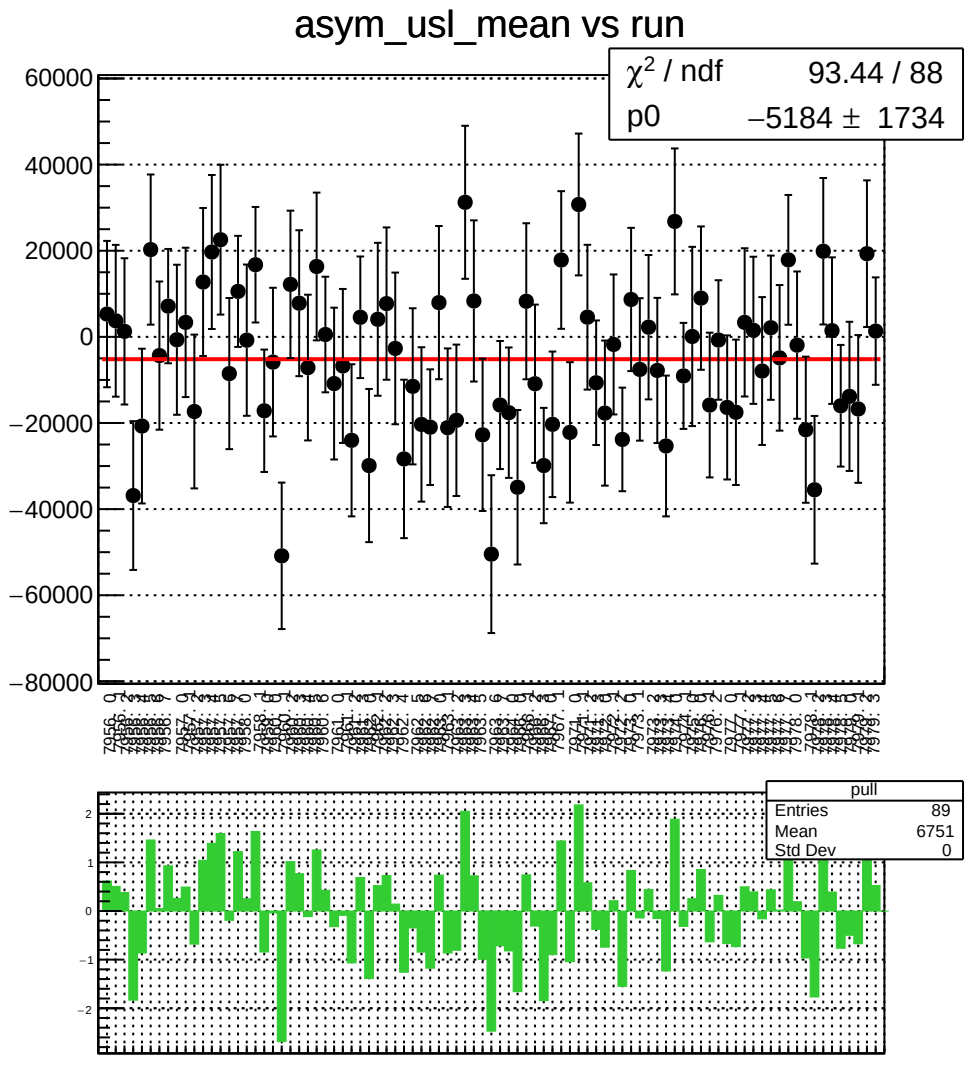

pull1D
Entries 89
Mean 0.006108
Std Dev 0.8838

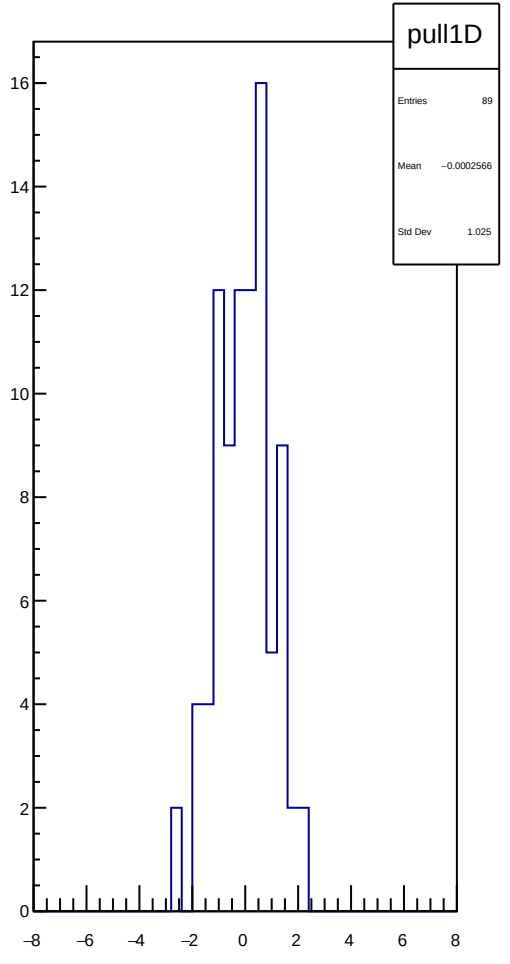

eigen_dit_asym_usl_rms vs run
χ² / ndf 208.7 / 88
p0 1083 ± 0.8092
1120
1110
1100
1090
1080
1070
1060
1050
1040

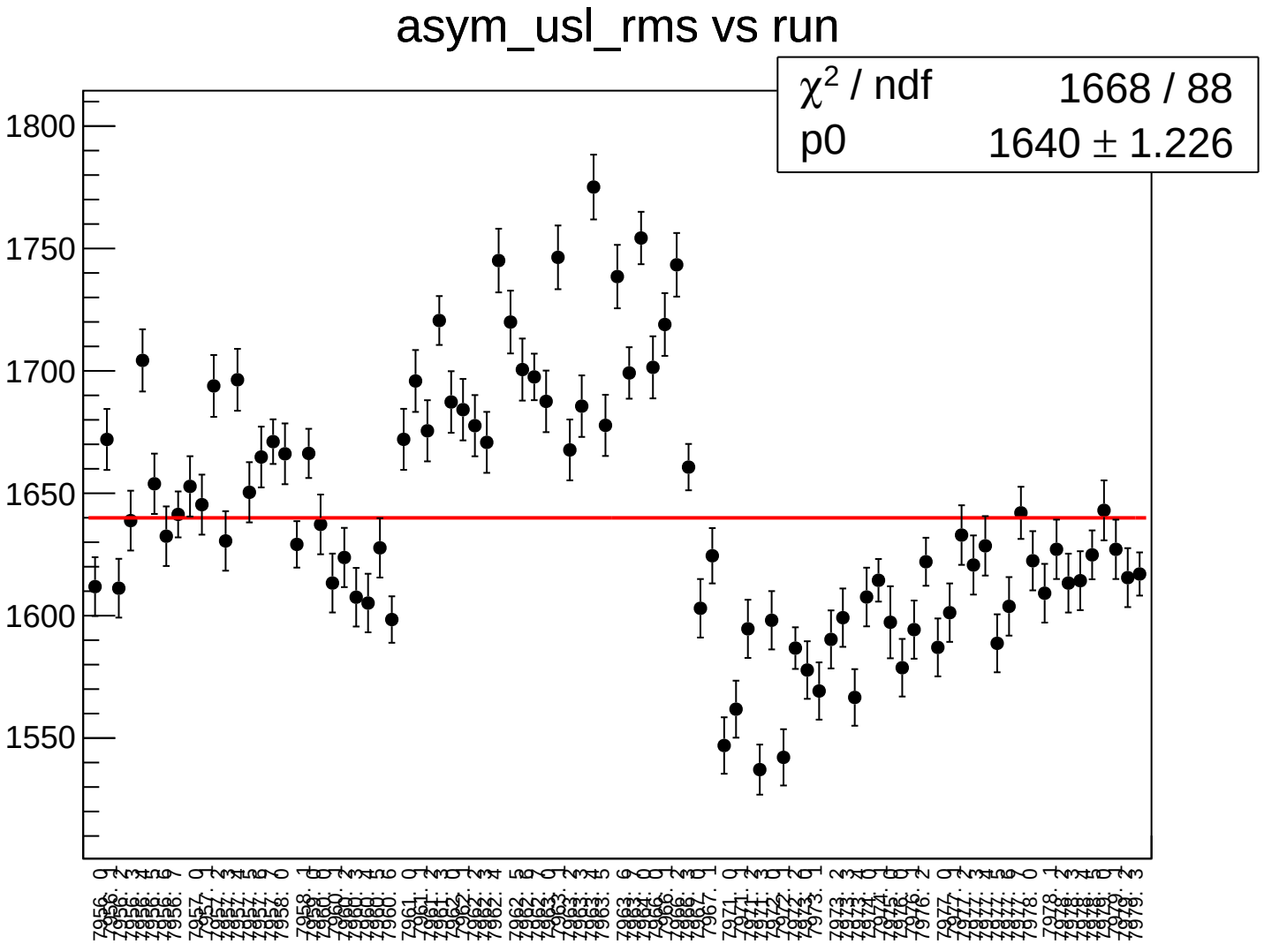

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 101.9 / 88
p0 1913 ± 1300
pull
Entries 89
Mean 657.5
Std Dev 0

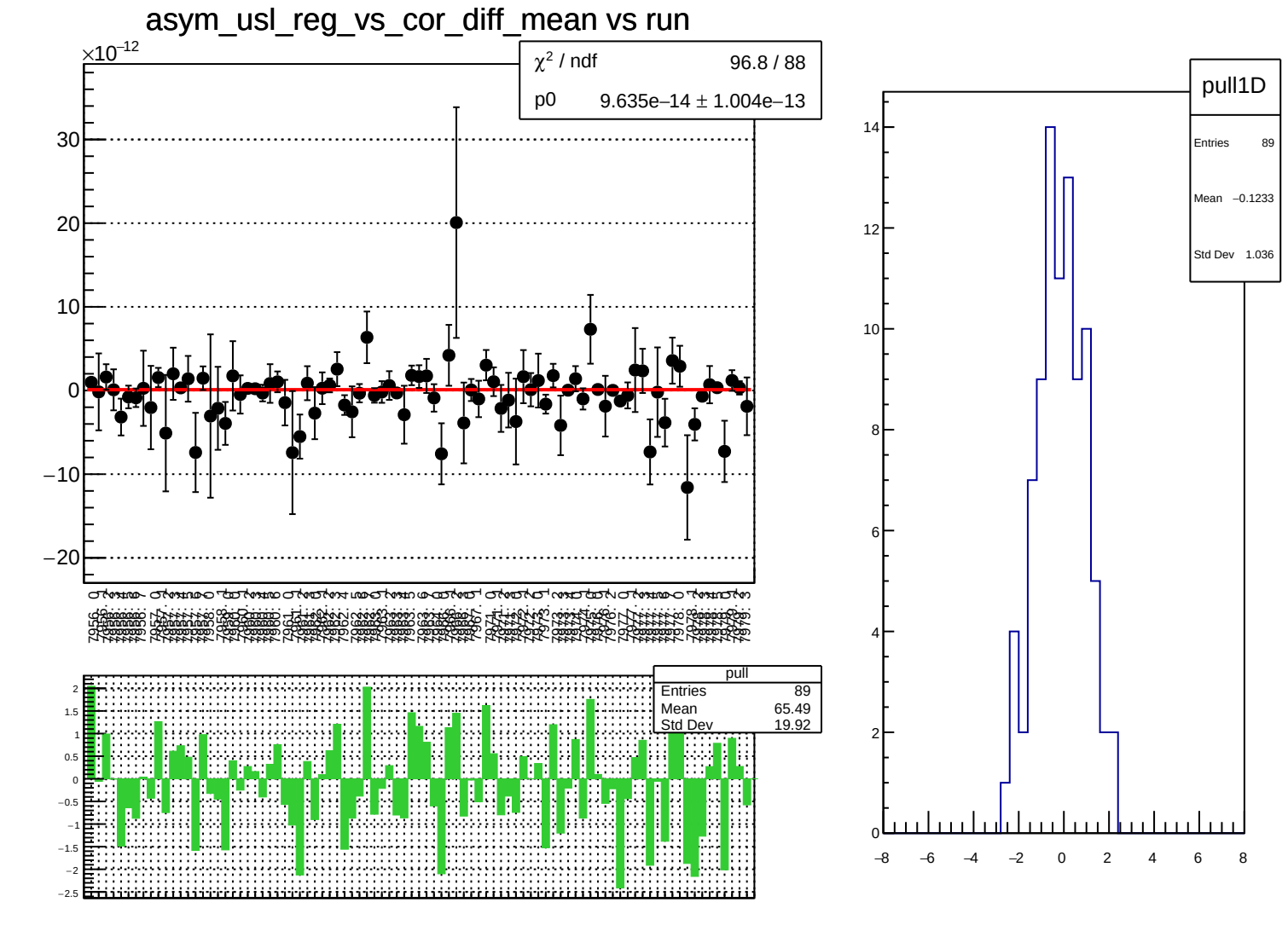

pull1D
Entries 89
Mean 0.001523
Std Dev 1.07

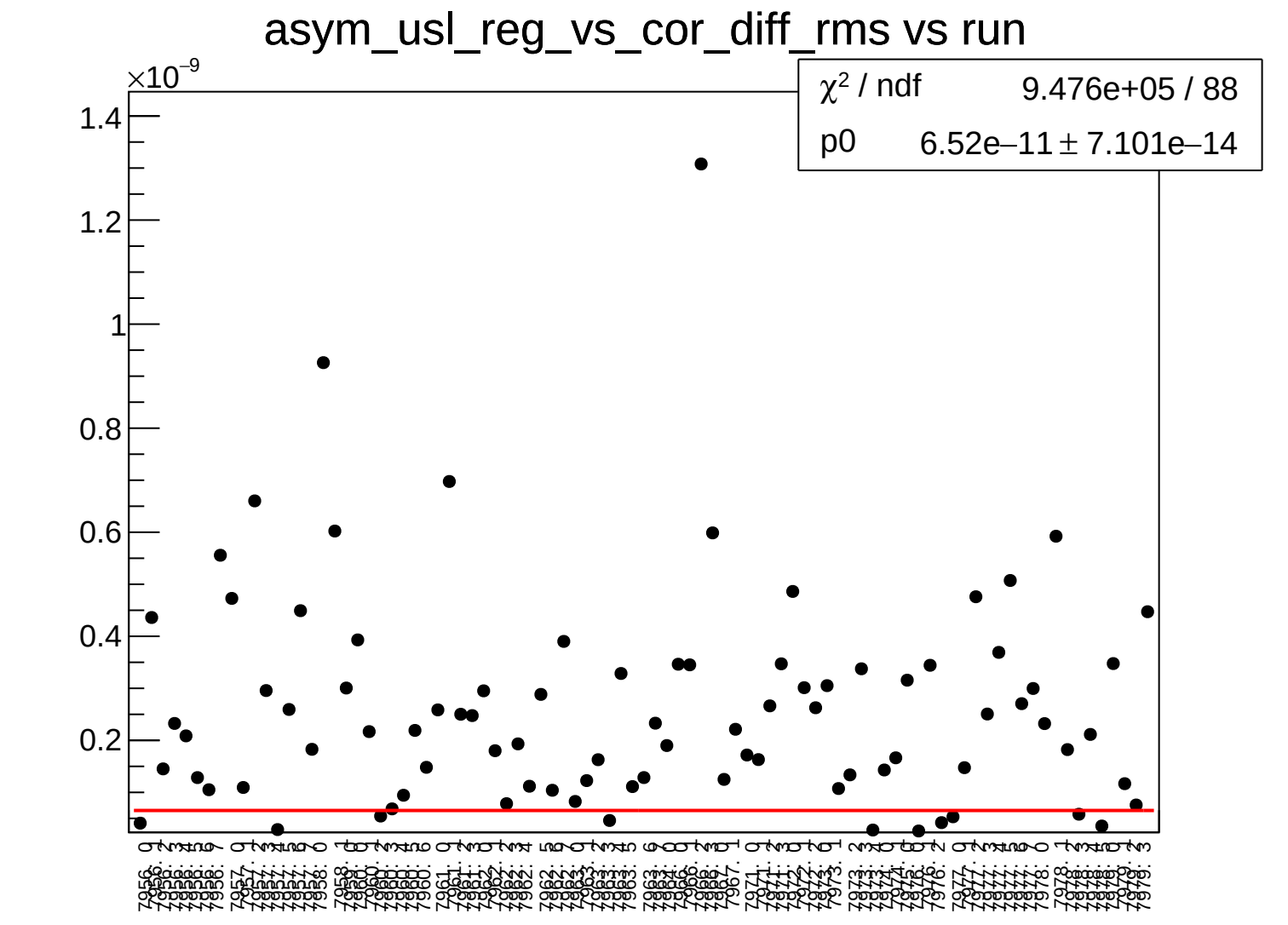

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 6193 / 88
p0 1228 ± 0.9193
1450
1400
1350
1300
1250
1200
1150
1100
1050

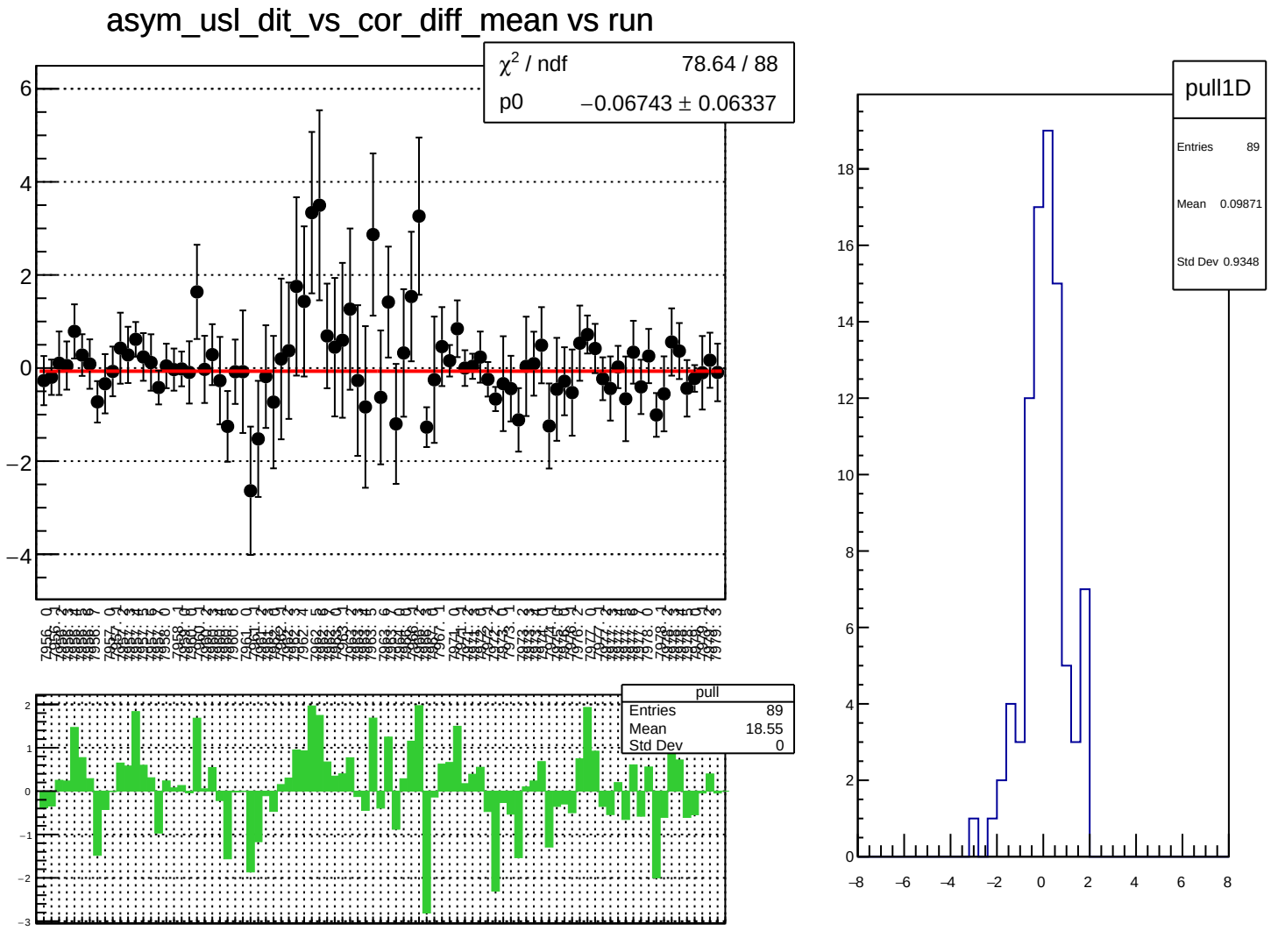

asym_usl_mean vs run
χ² / ndf 93.44 / 88
p0 −5184 ± 1734
pull
Entries 89
Mean 6751
Std Dev 0

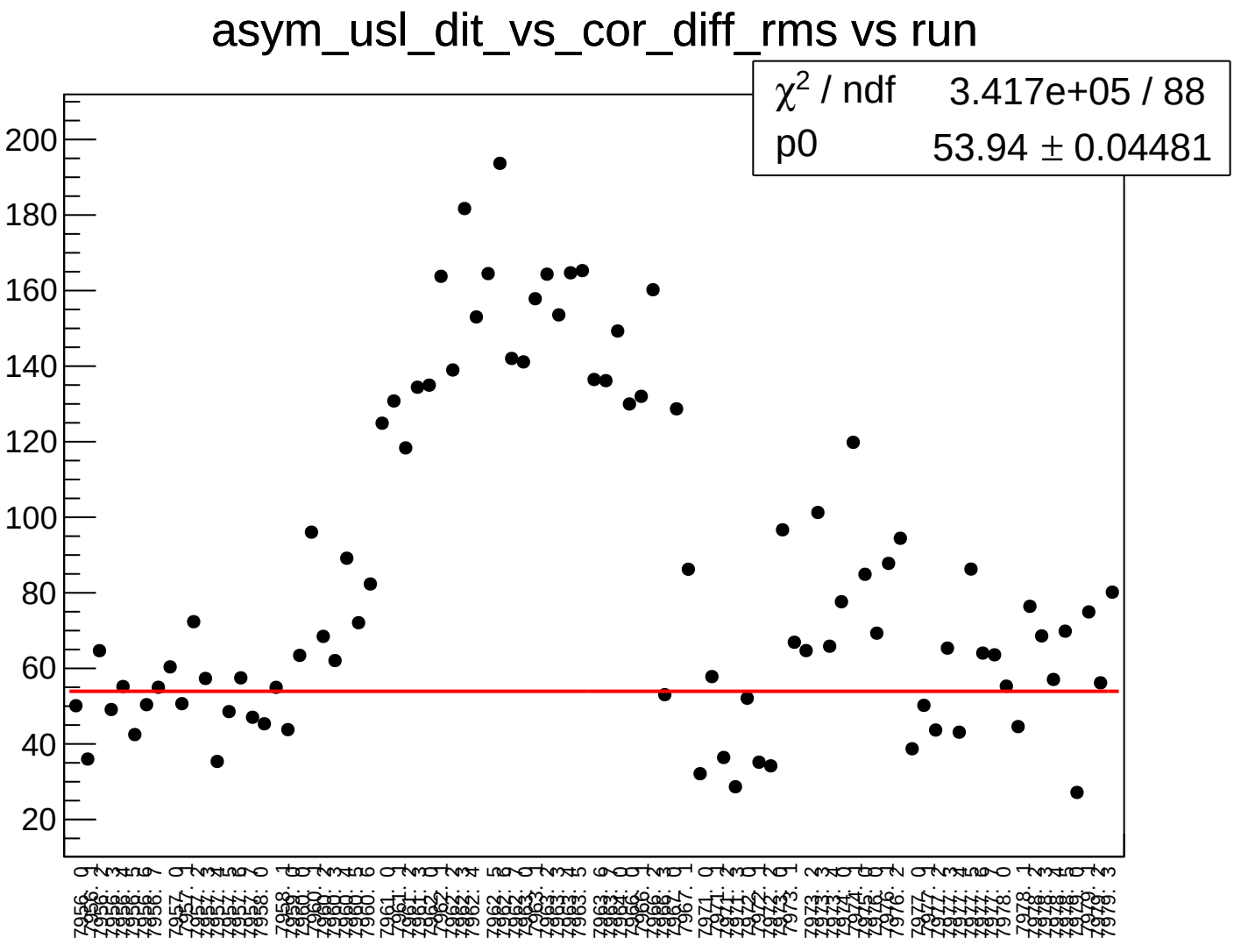

pull1D
Entries 89
Mean −0.0002566
Std Dev 1.025

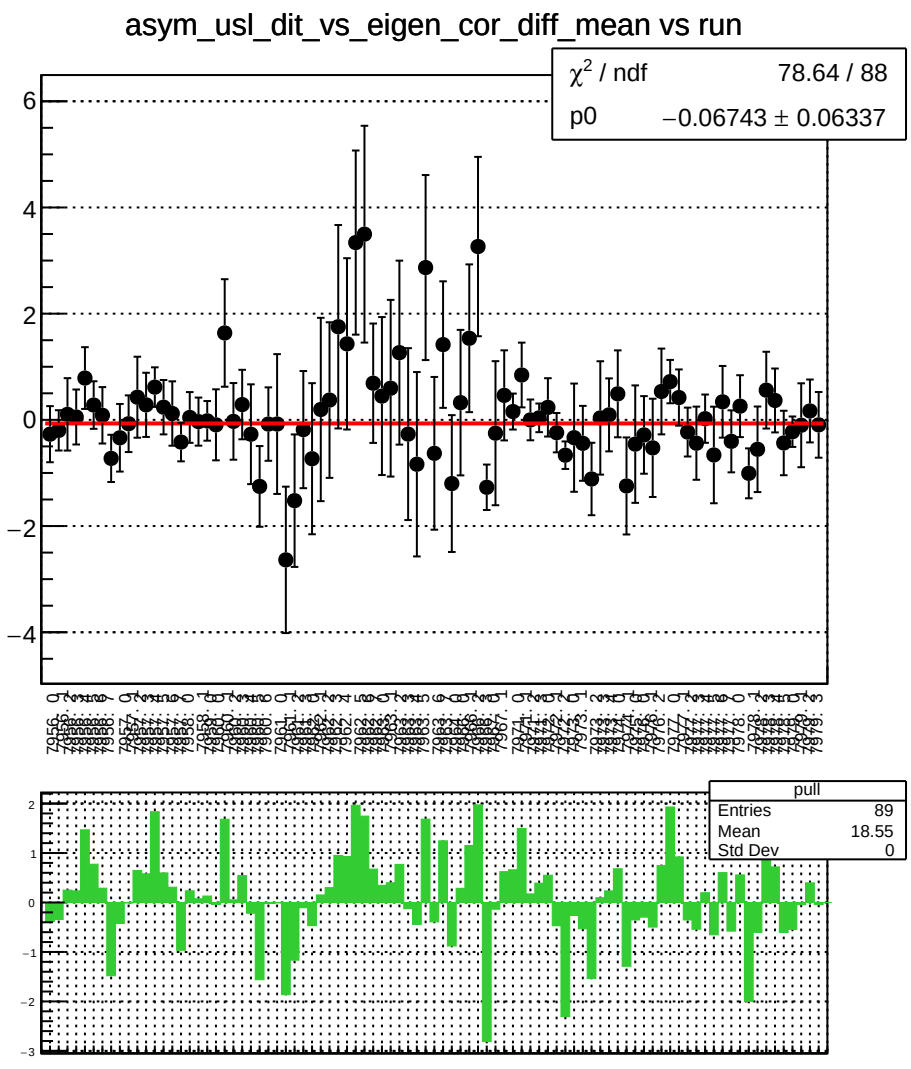

asym_usl_rms vs run
χ² / ndf 1668 / 88
p0 1640 ± 1.226
1800
1750
1700
1650
1600
1550

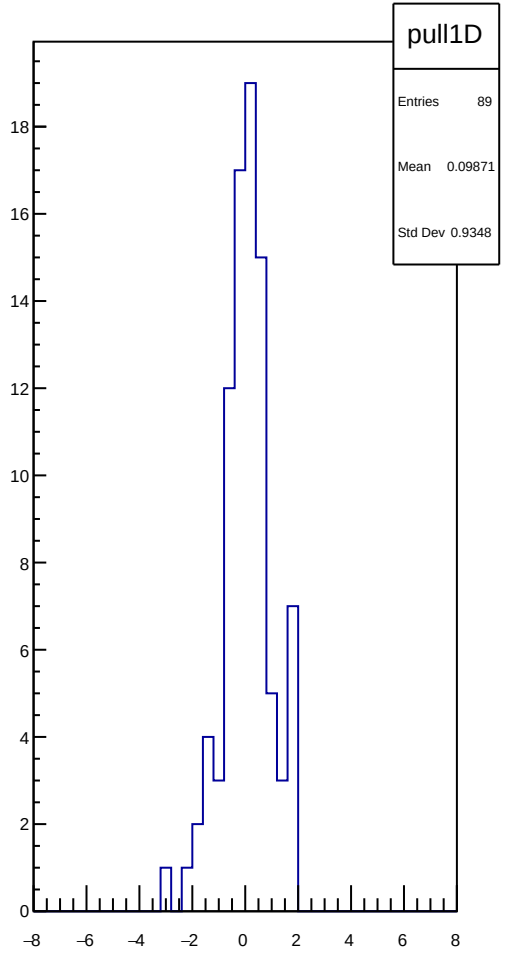

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.8 / 88
p0 9.635e−14 ± 1.004e−13
pull
Entries 89
Mean 65.49
Std Dev 19.92
pull1D
Entries 89
Mean −0.1233
Std Dev 1.036

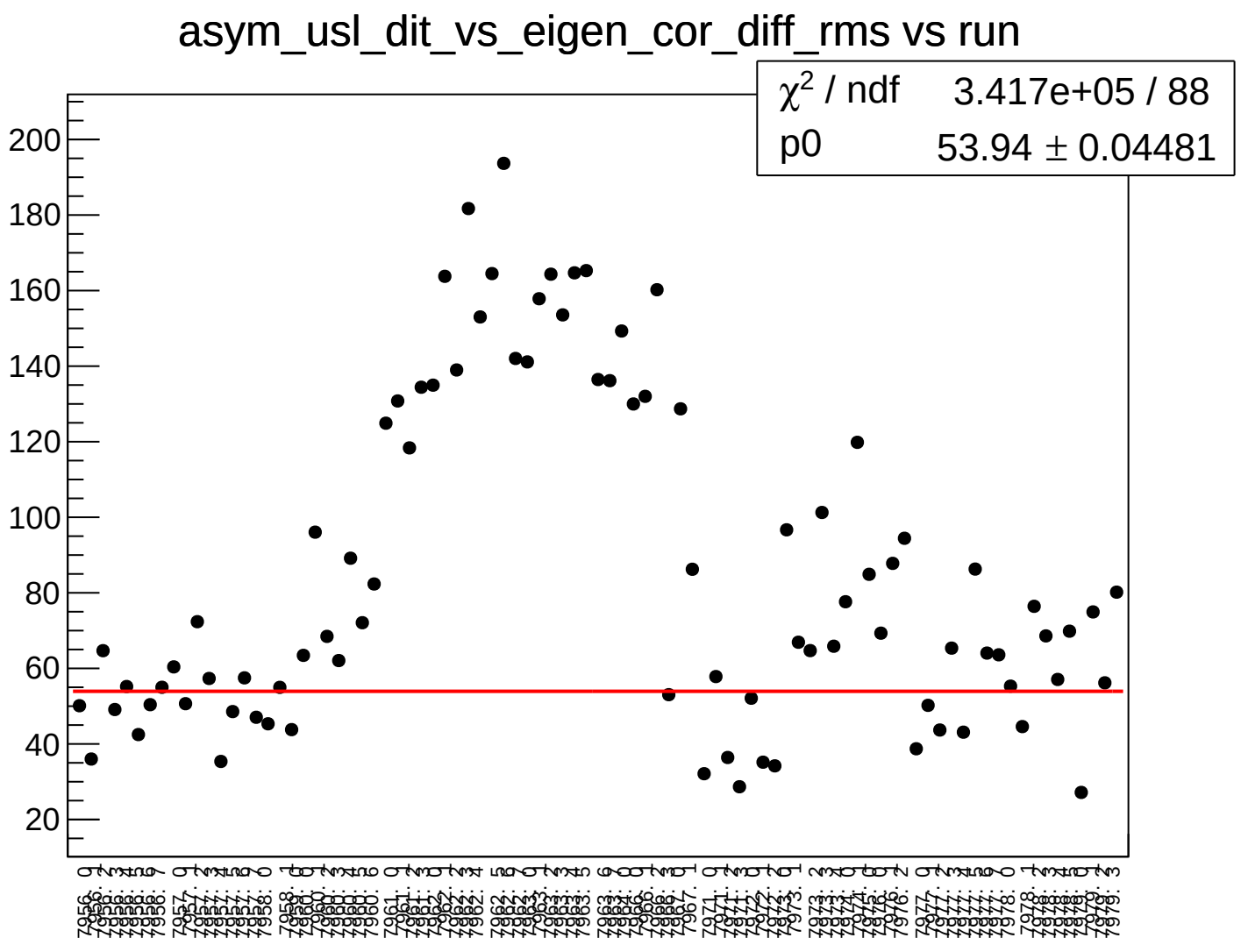

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.476e+05 / 88
p0 6.52e−11 ± 7.101e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

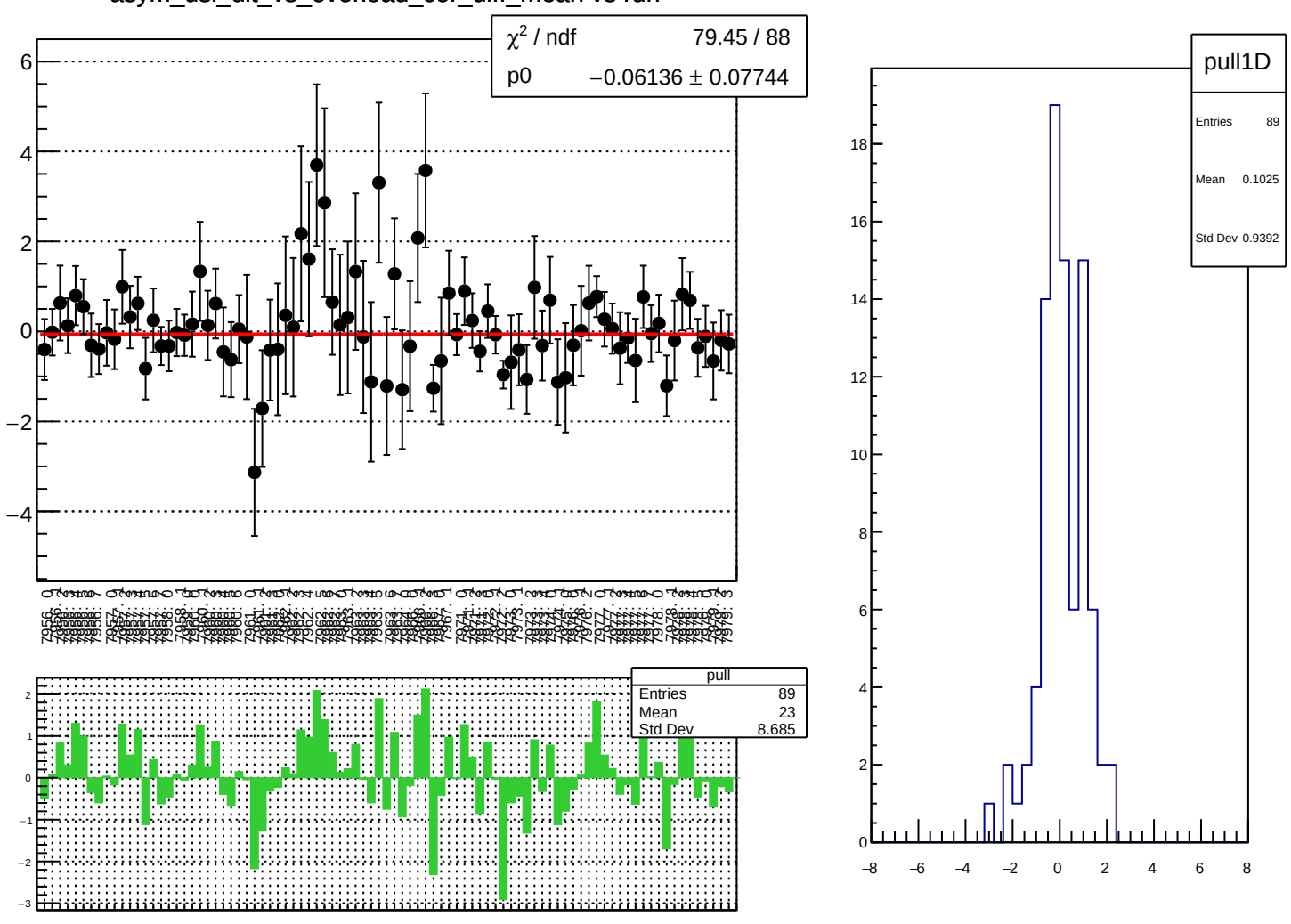

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 78.64 / 88
p0 −0.06743 ± 0.06337
pull
Entries 89
Mean 18.55
Std Dev 0
pull1D
Entries 89
Mean 0.09871
Std Dev 0.9348

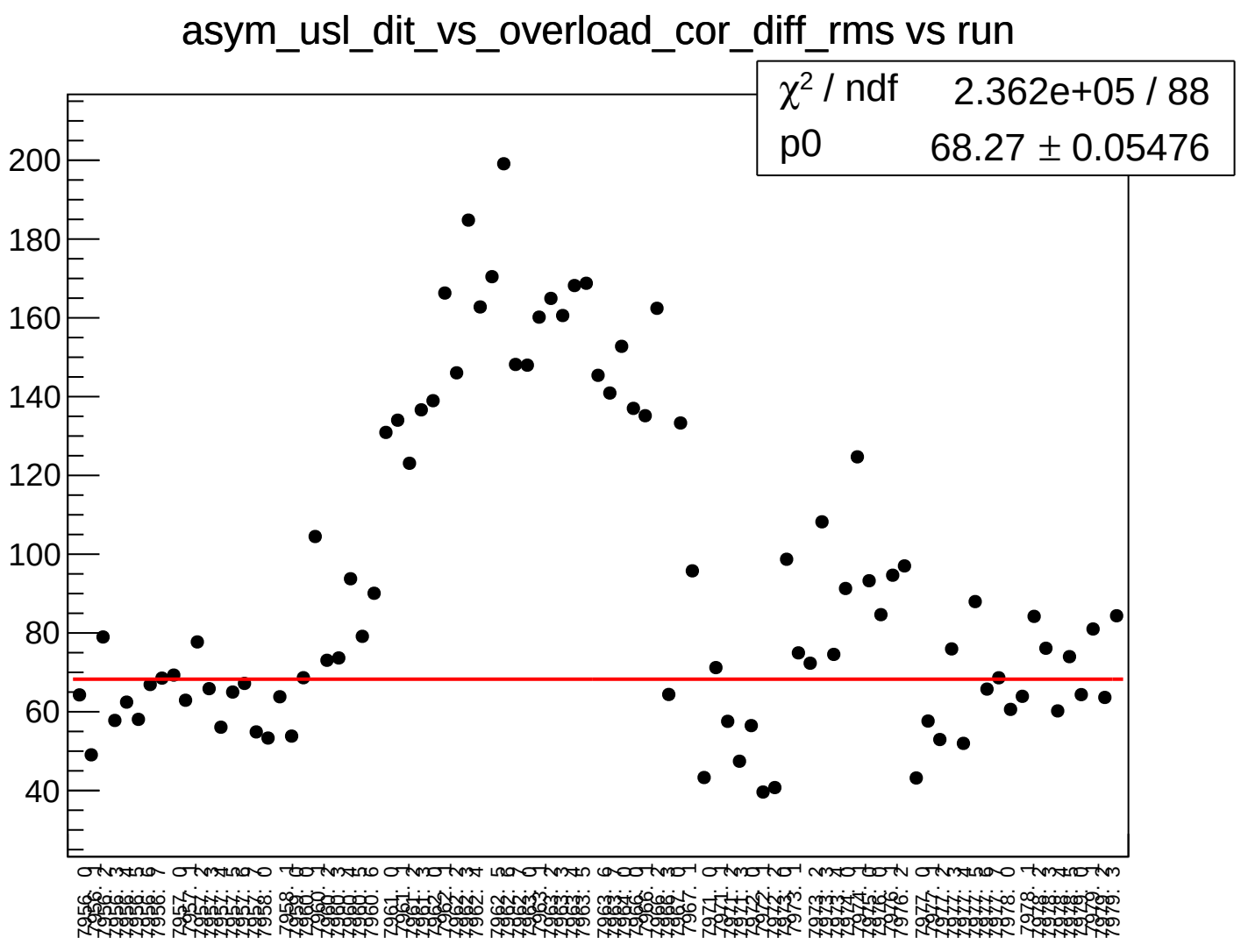

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 3.417e+05 / 88
p0 53.94 ± 0.04481
200
180
160
140
120
100
80
60
40
20

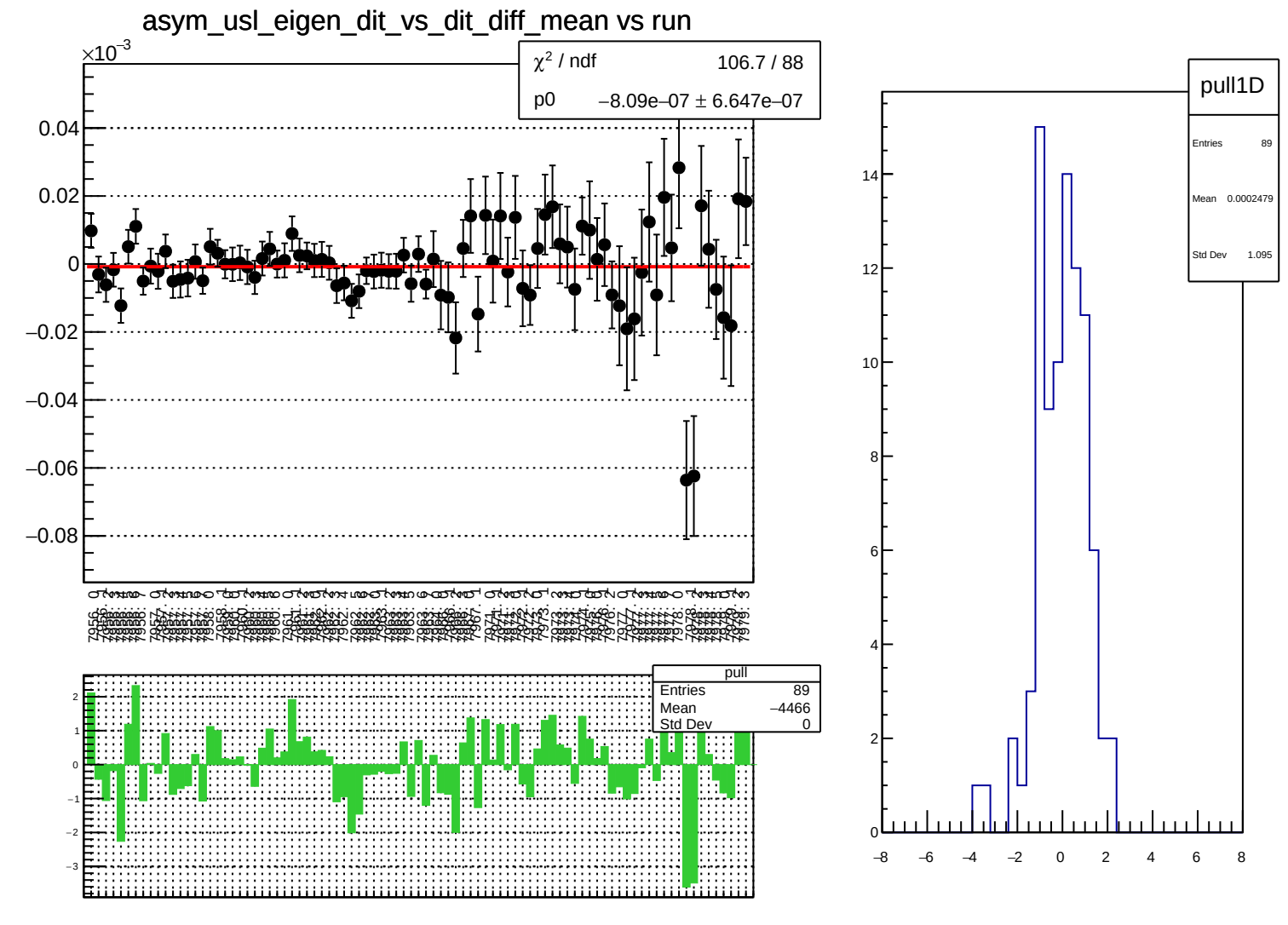

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.64 / 88
p0 −0.06743 ± 0.06337
pull
Entries 89
Mean 18.55
Std Dev 0

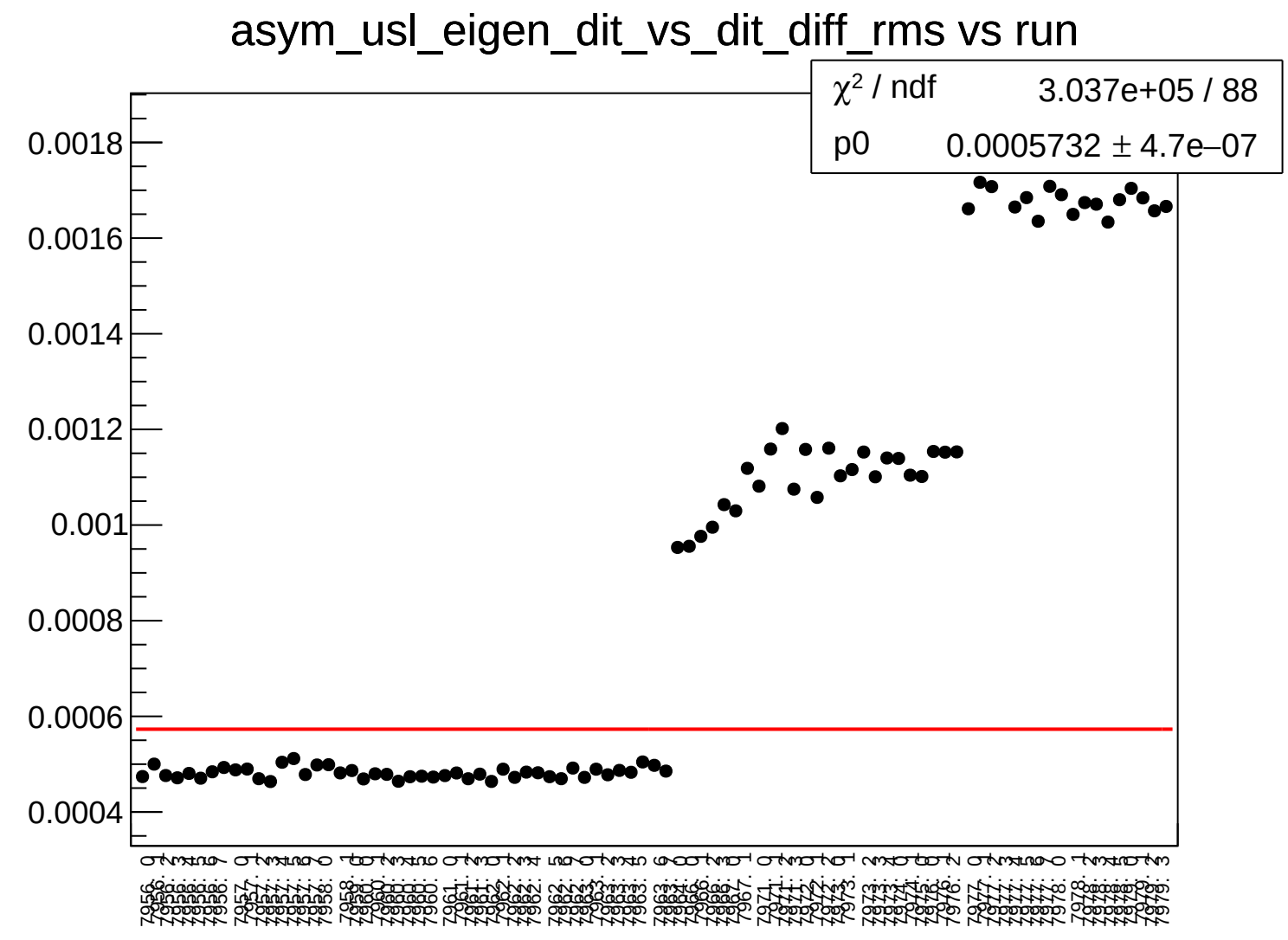

pull1D
Entries 89
Mean 0.09871
Std Dev 0.9348

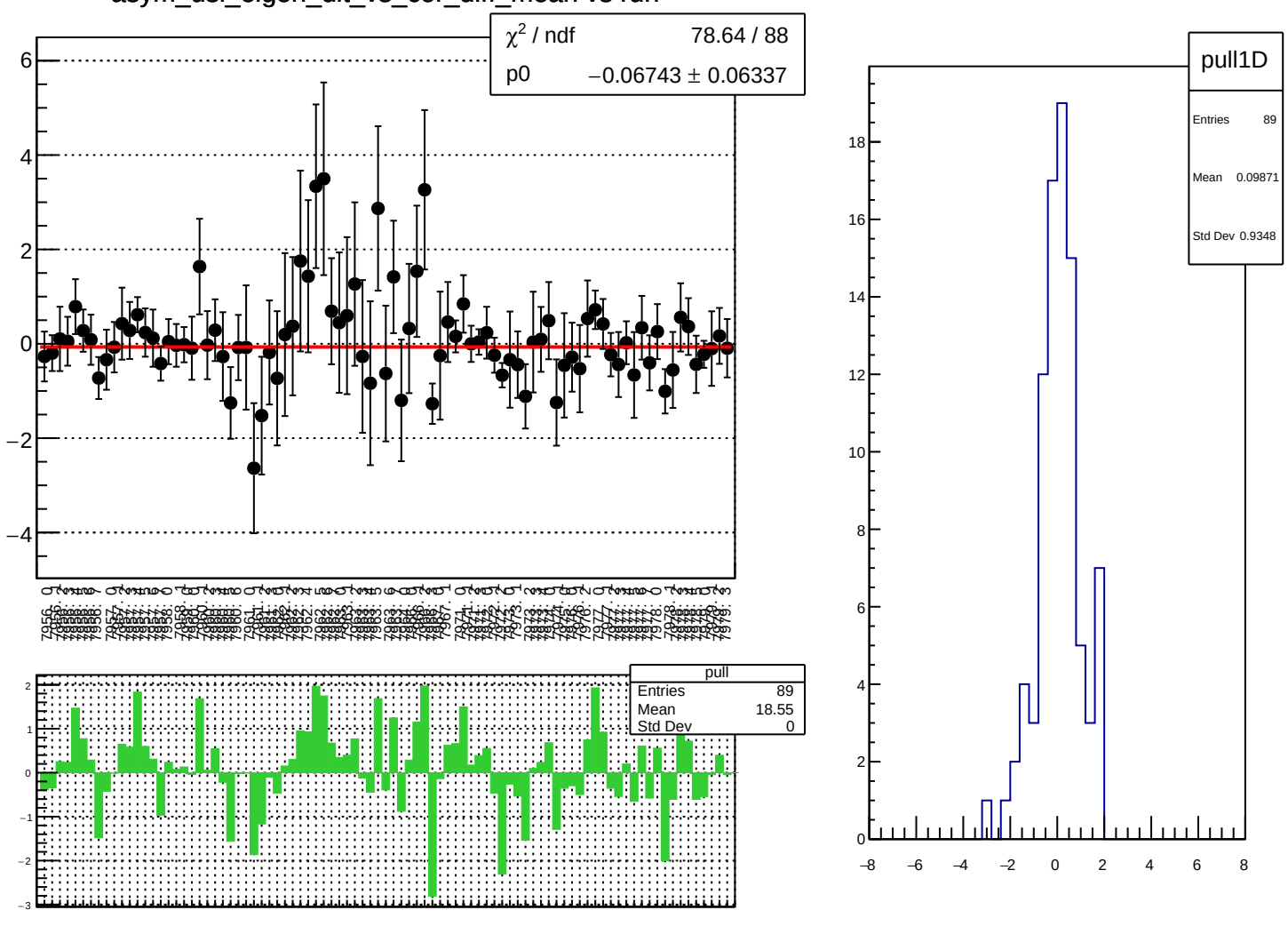

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.417e+05 / 88
p0 53.94 ± 0.04481
200
180
160
140
120
100
80
60
40
20

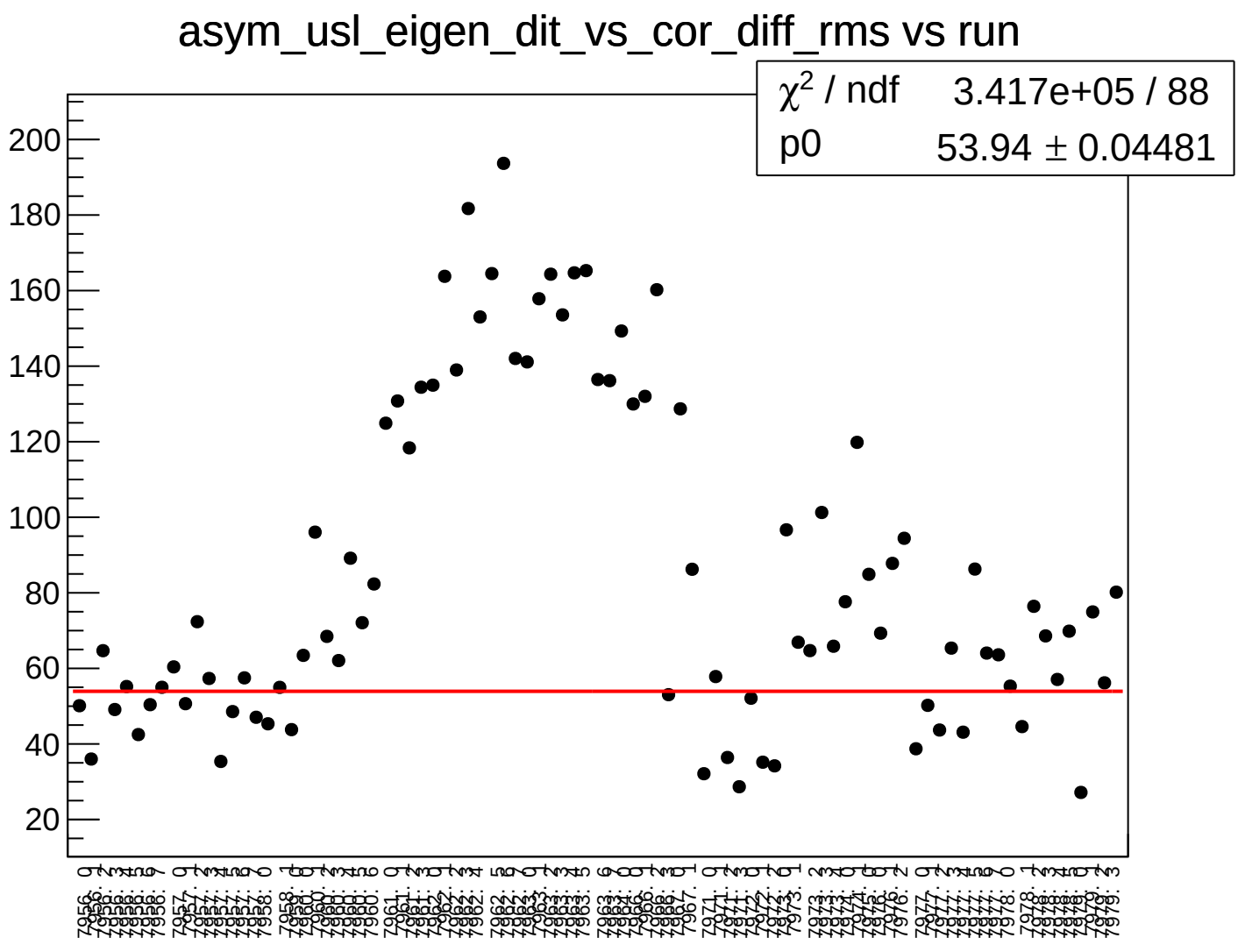

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 79.45 / 88
p0 −0.06136 ± 0.07744
pull
Entries 89
Mean 23
Std Dev 8.685
pull1D
Entries 89
Mean 0.1025
Std Dev 0.9392

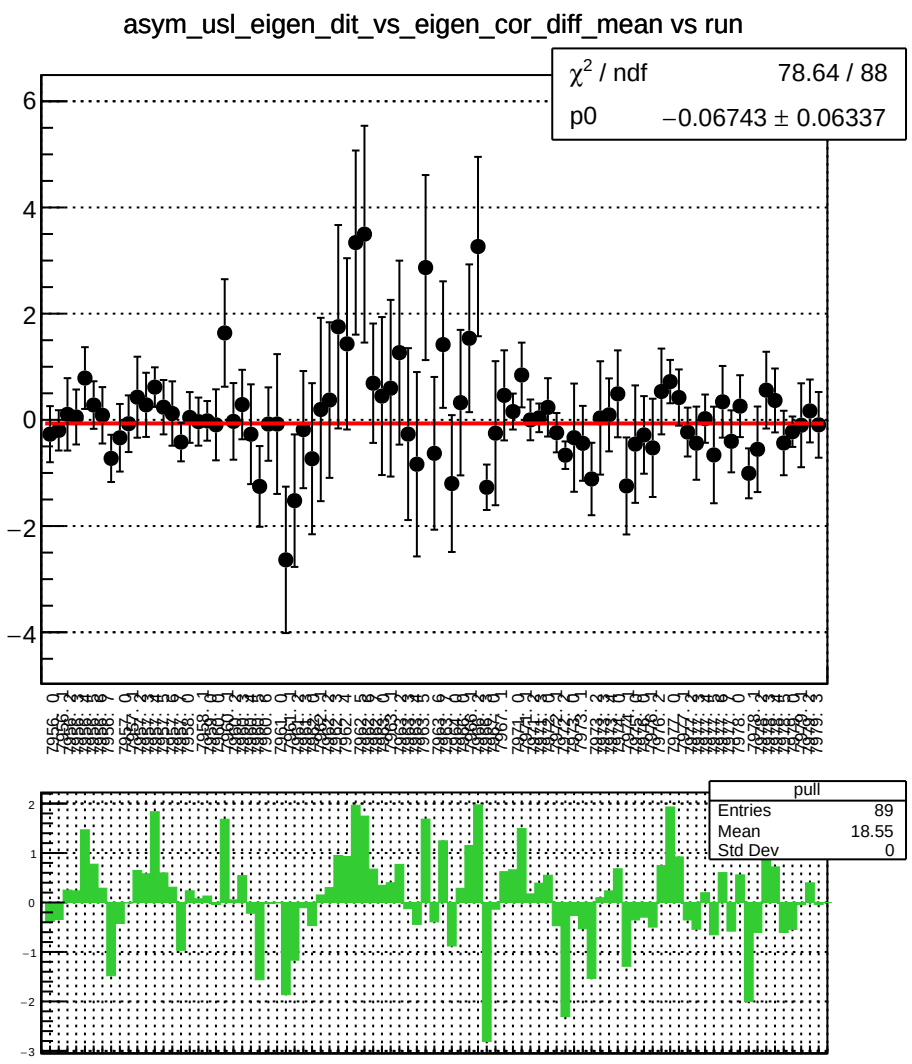

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.362e+05 / 88
p0 68.27 ± 0.05476
200
180
160
140
120
100
80
60
40

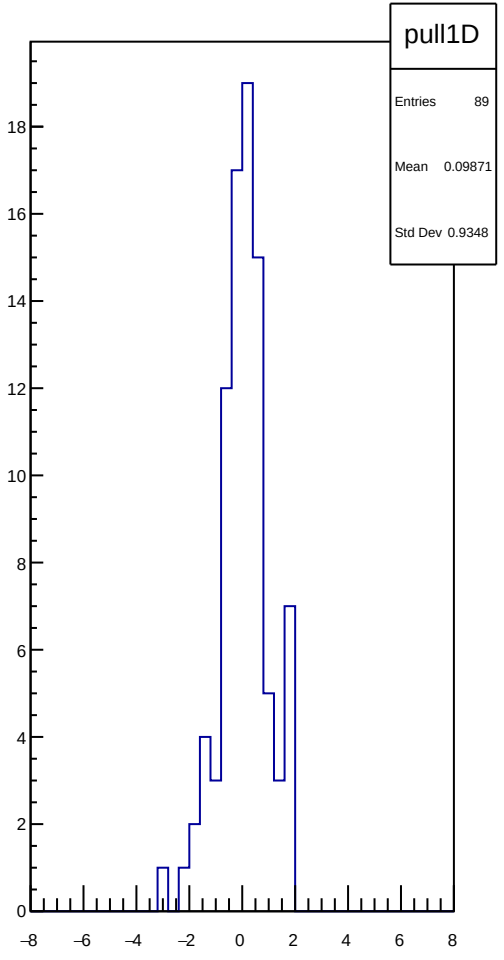

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.7 / 88
p0 −8.09e−07 ± 6.647e−07
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −4466
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.0002479
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

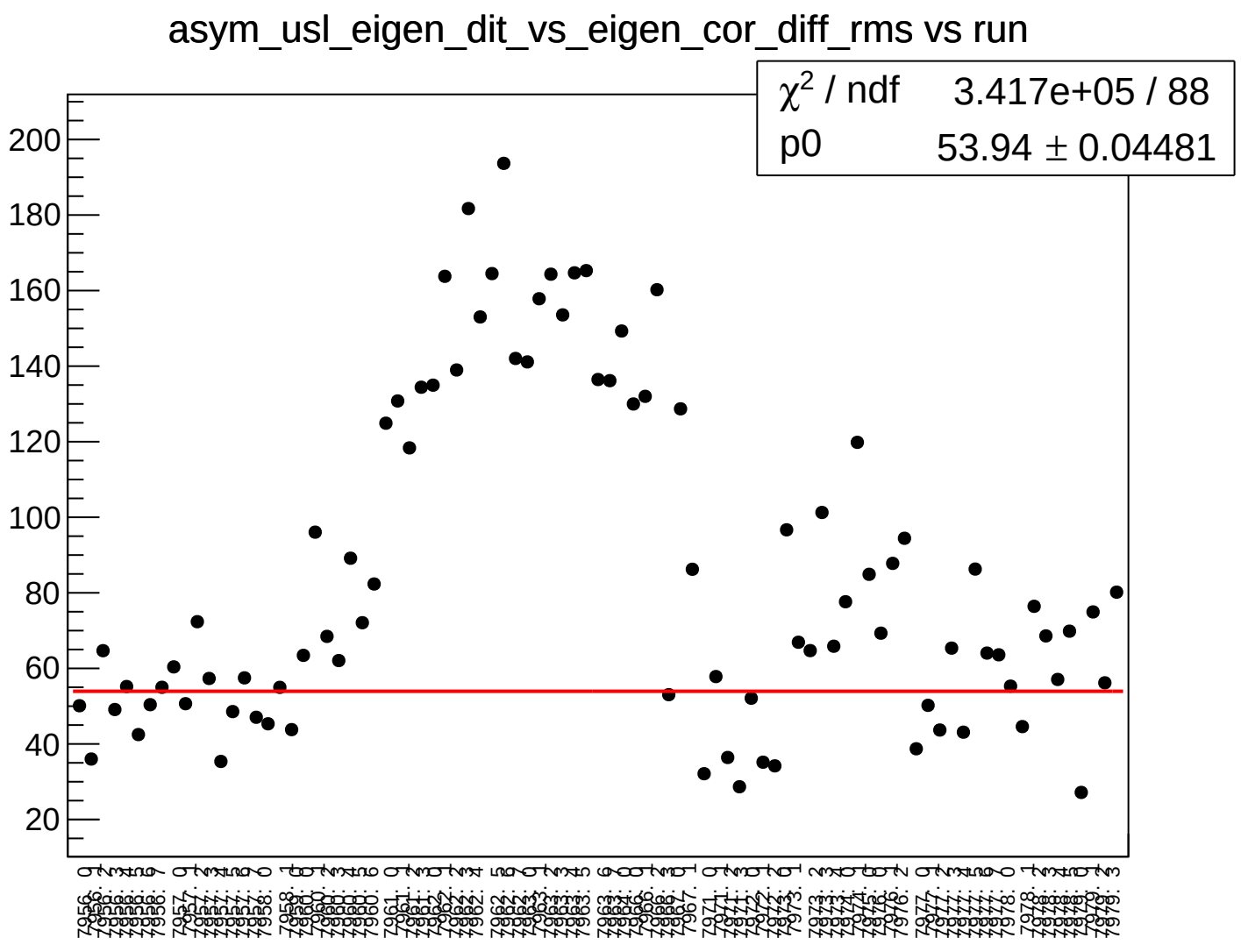

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.037e+05 / 88
p0 0.0005732 ± 4.7e–07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

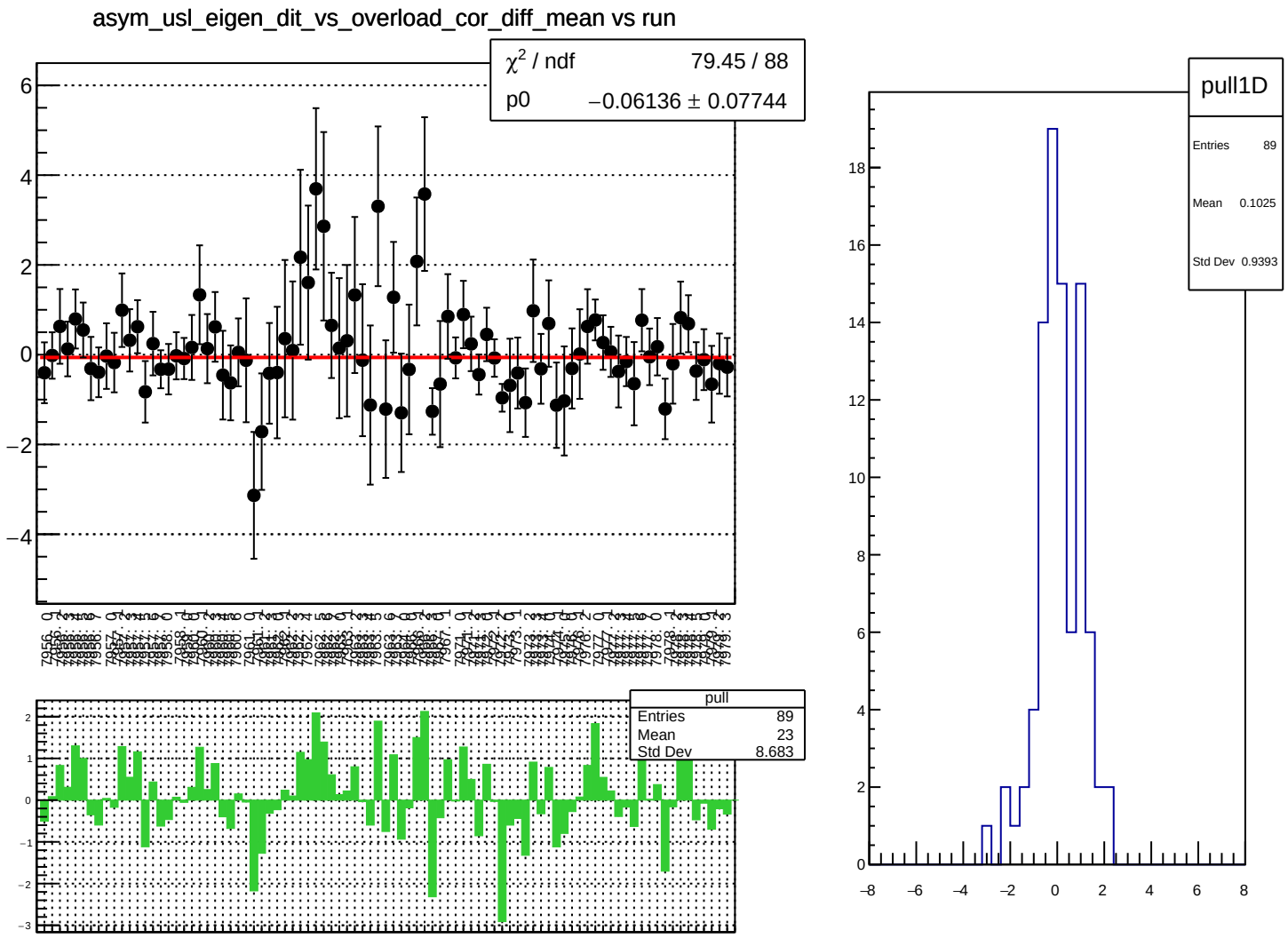

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.64 / 88
p0 −0.06743 ± 0.06337
pull
Entries 89
Mean 18.55
Std Dev 0
pull1D
Entries 89
Mean 0.09871
Std Dev 0.9348

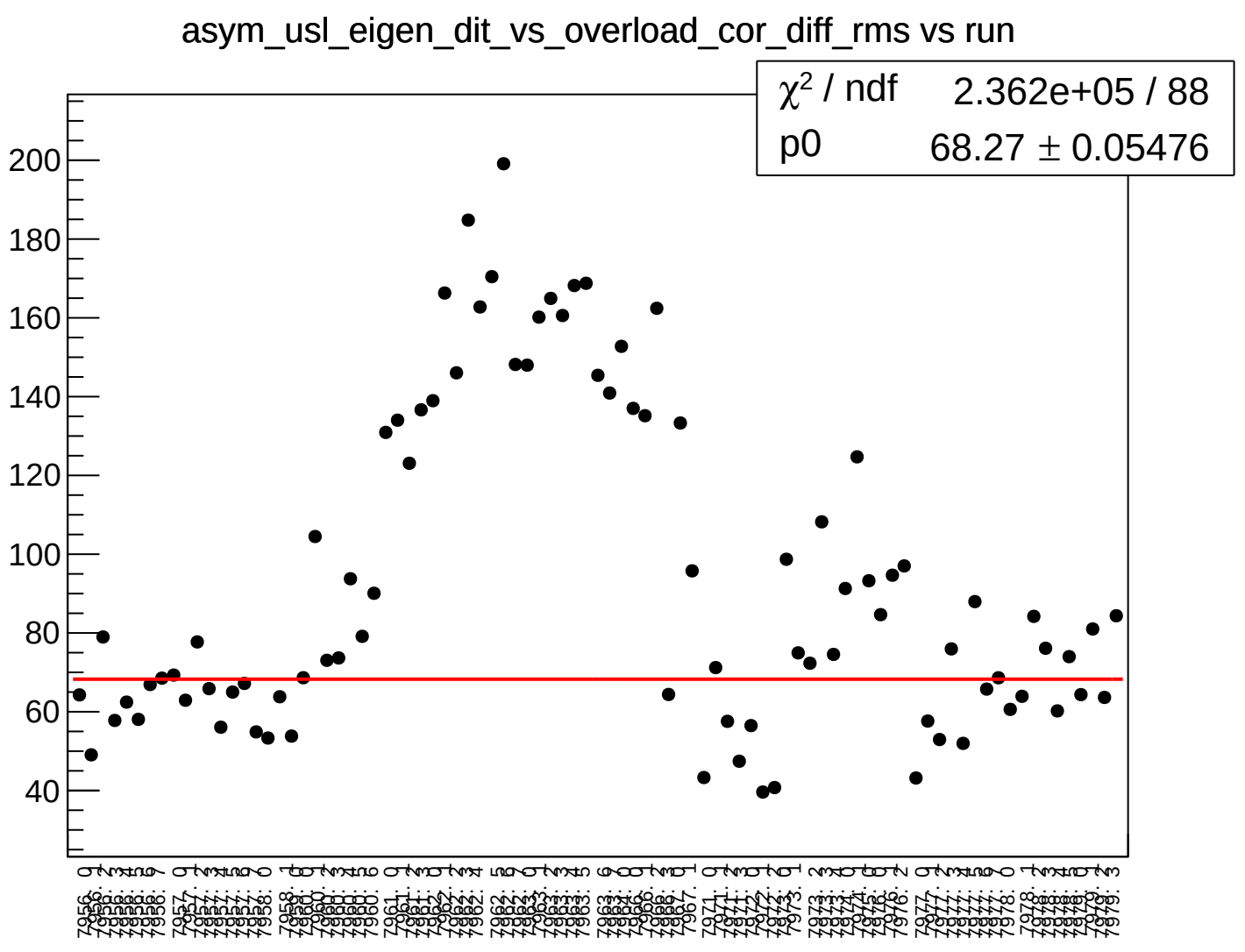

asym_usl_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 3.417e+05 / 88
p0 53.94 ± 0.04481
200
180
160
140
120
100
80
60
40
20

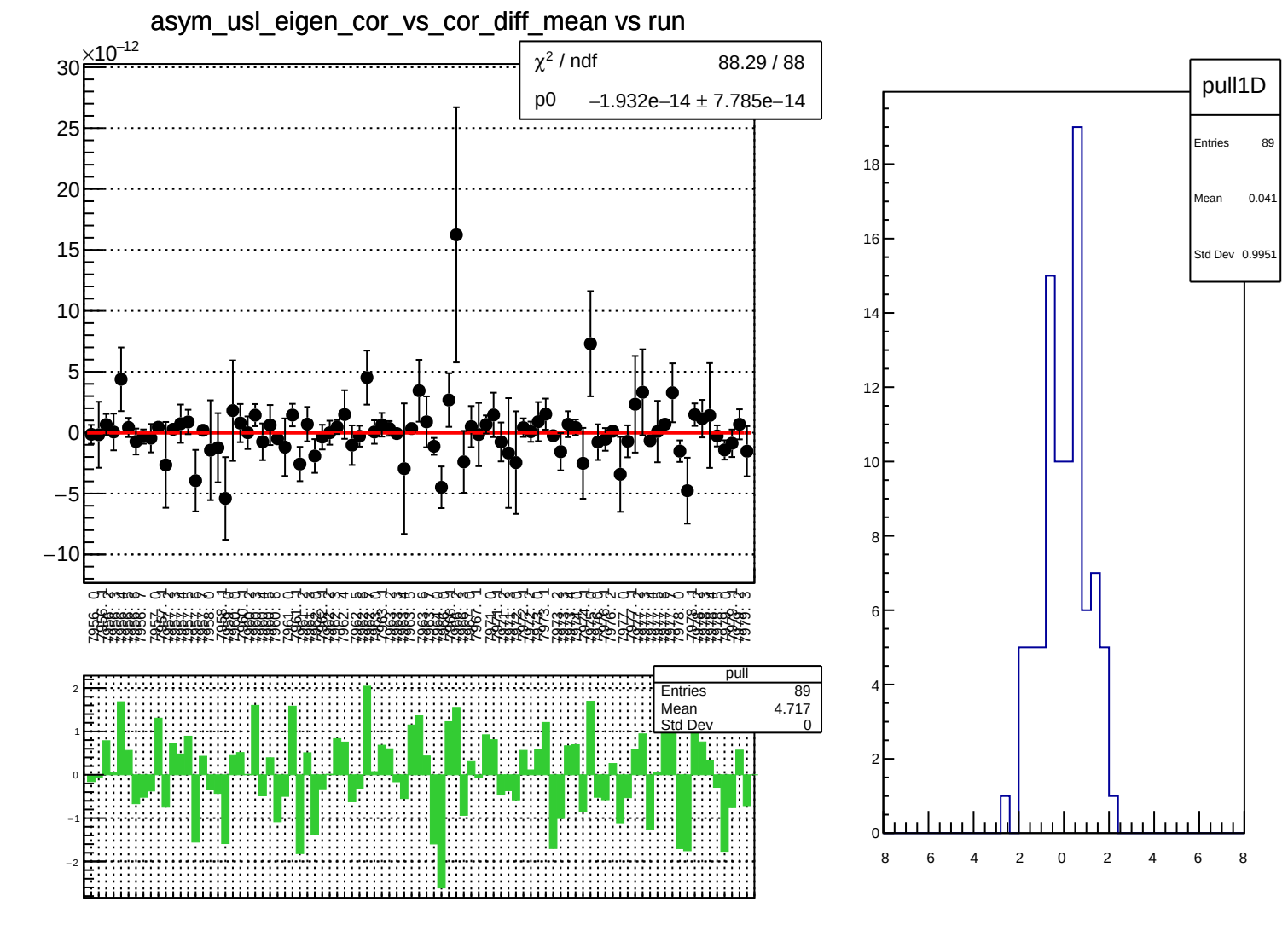

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.64 / 88
p0 −0.06743 ± 0.06337
pull
Entries 89
Mean 18.55
Std Dev 0

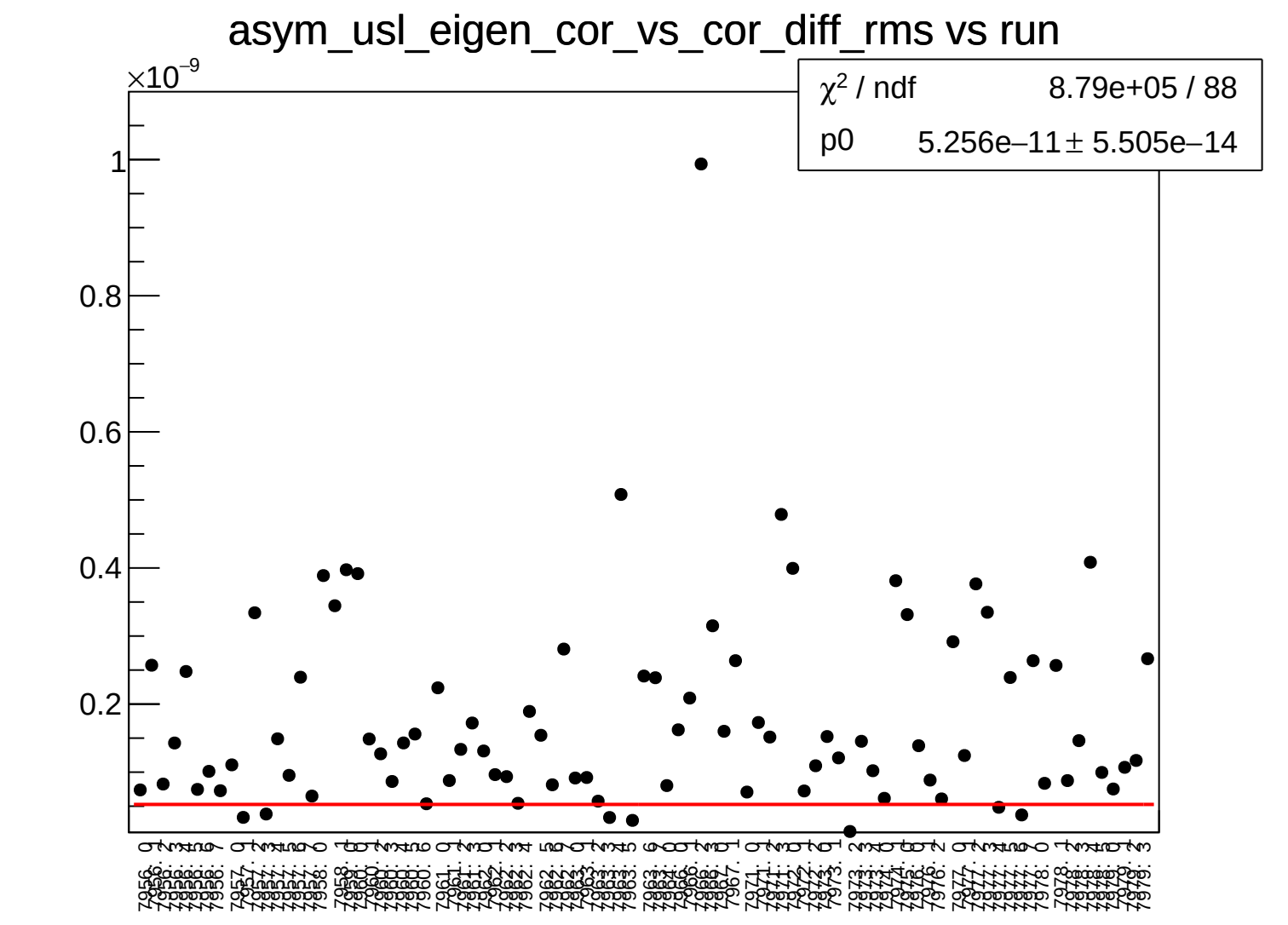

pull1D
Entries 89
Mean 0.09871
Std Dev 0.9348

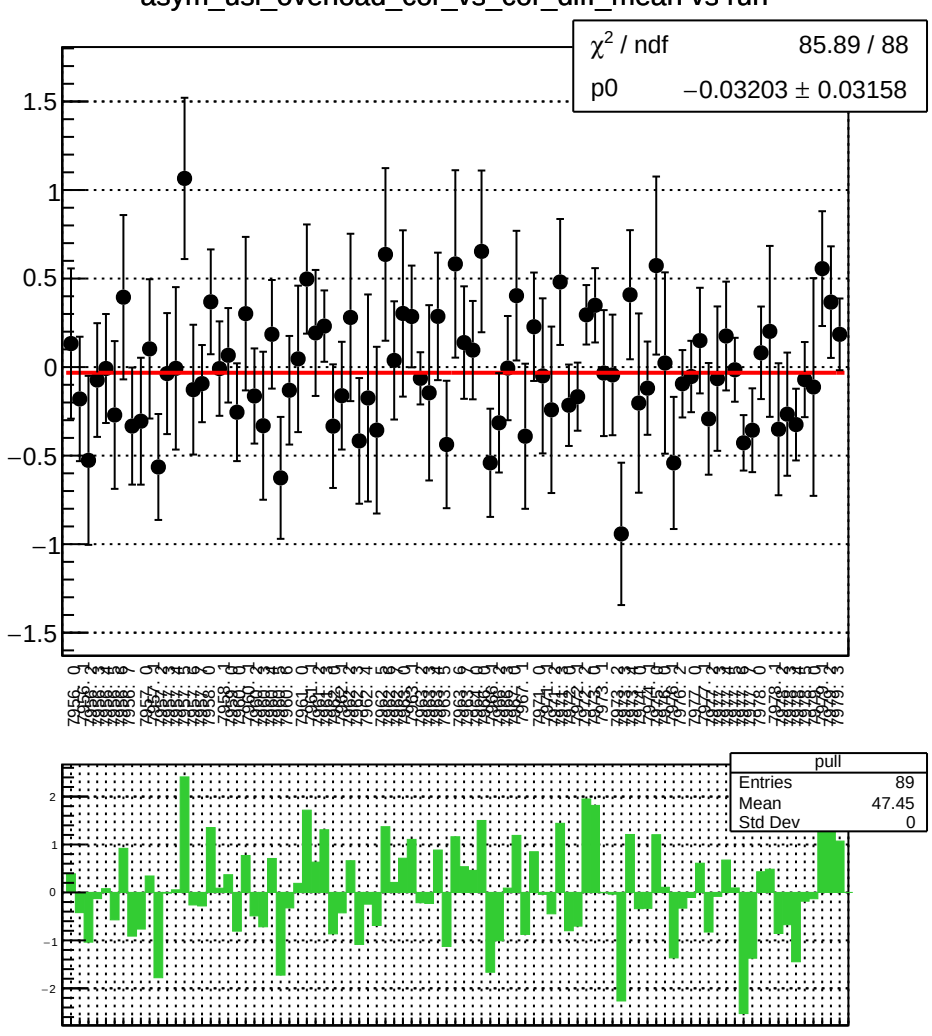

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.417e+05 / 88
p0 53.94 ± 0.04481
200
180
160
140
120
100
80
60
40
20

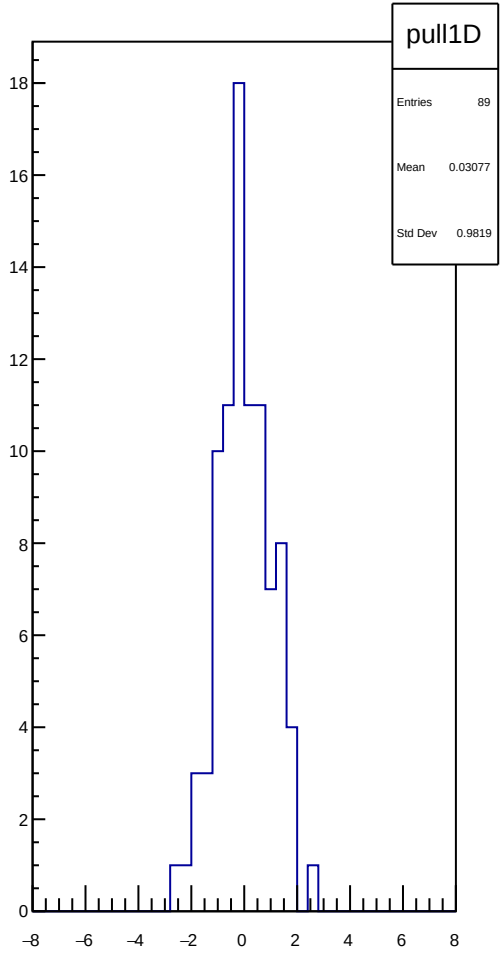

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 79.45 / 88
p0 −0.06136 ± 0.07744
pull
Entries 89
Mean 23
Std Dev 8.683
pull1D
Entries 89
Mean 0.1025
Std Dev 0.9393

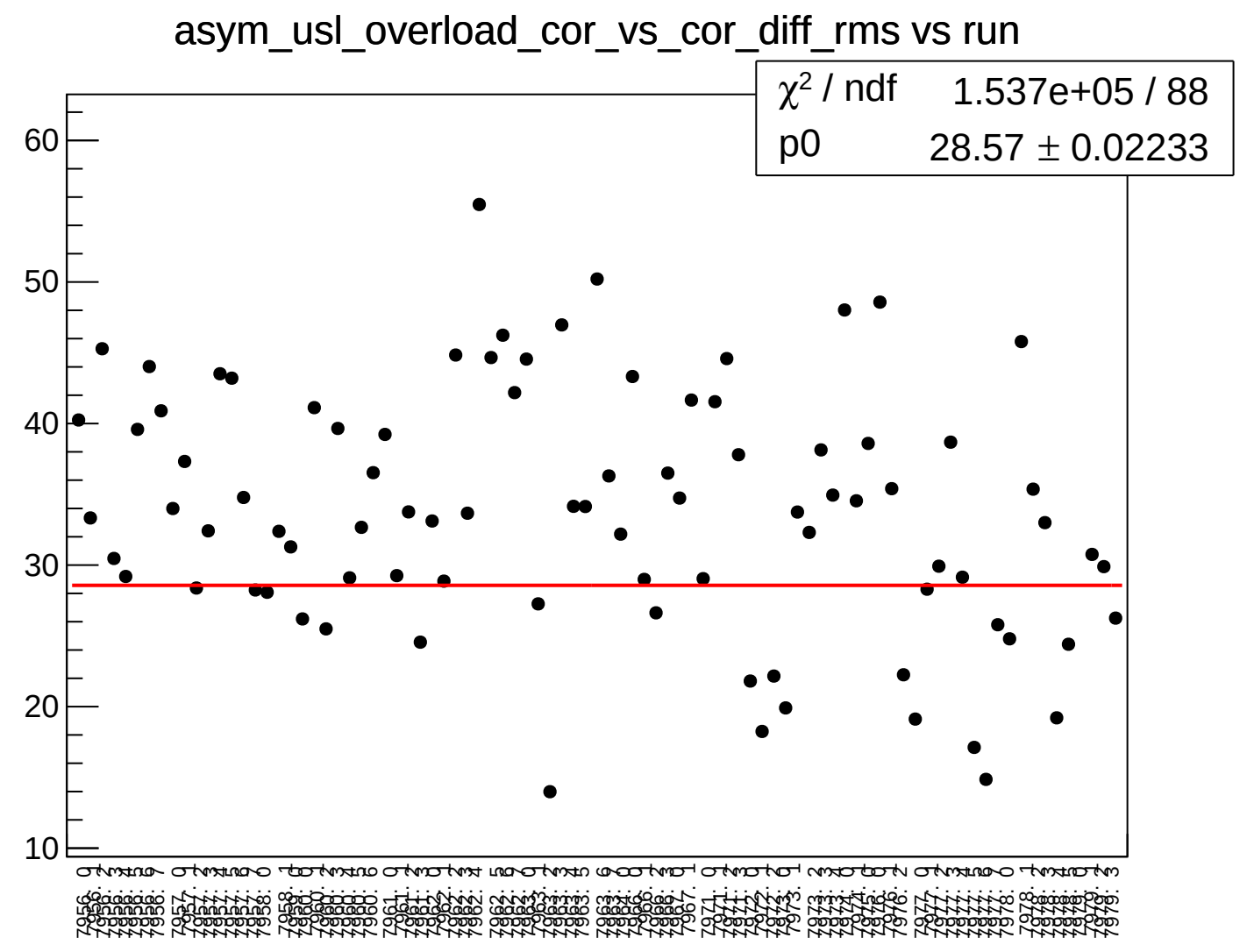

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.362e+05 / 88
p0 68.27 ± 0.05476
200
180
160
140
120
100
80
60
40

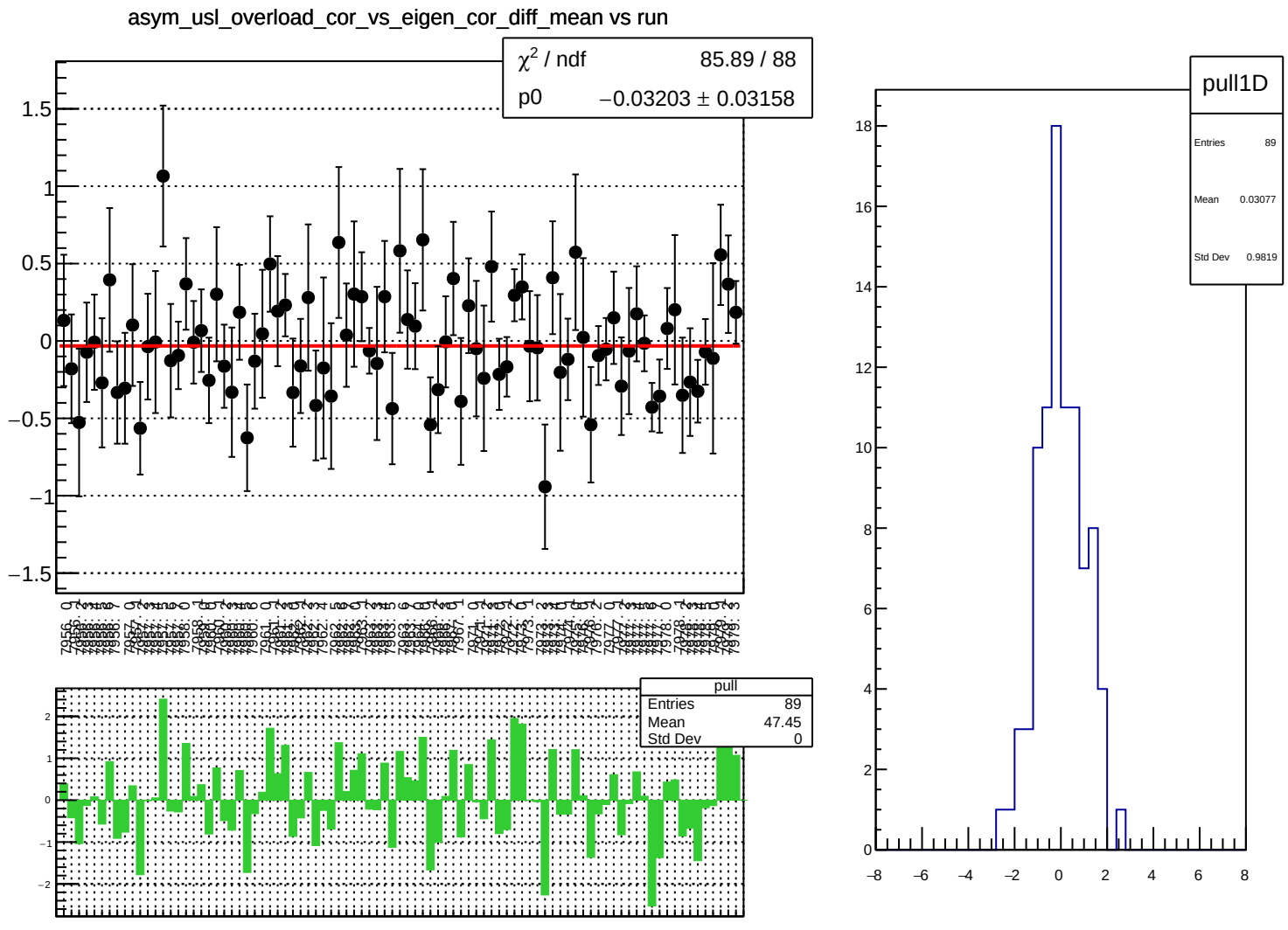

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.29 / 88
p0 −1.932e−14 ± 7.785e−14
pull
Entries 89
Mean 4.717
Std Dev 0
pull1D
Entries 89
Mean 0.041
Std Dev 0.9951

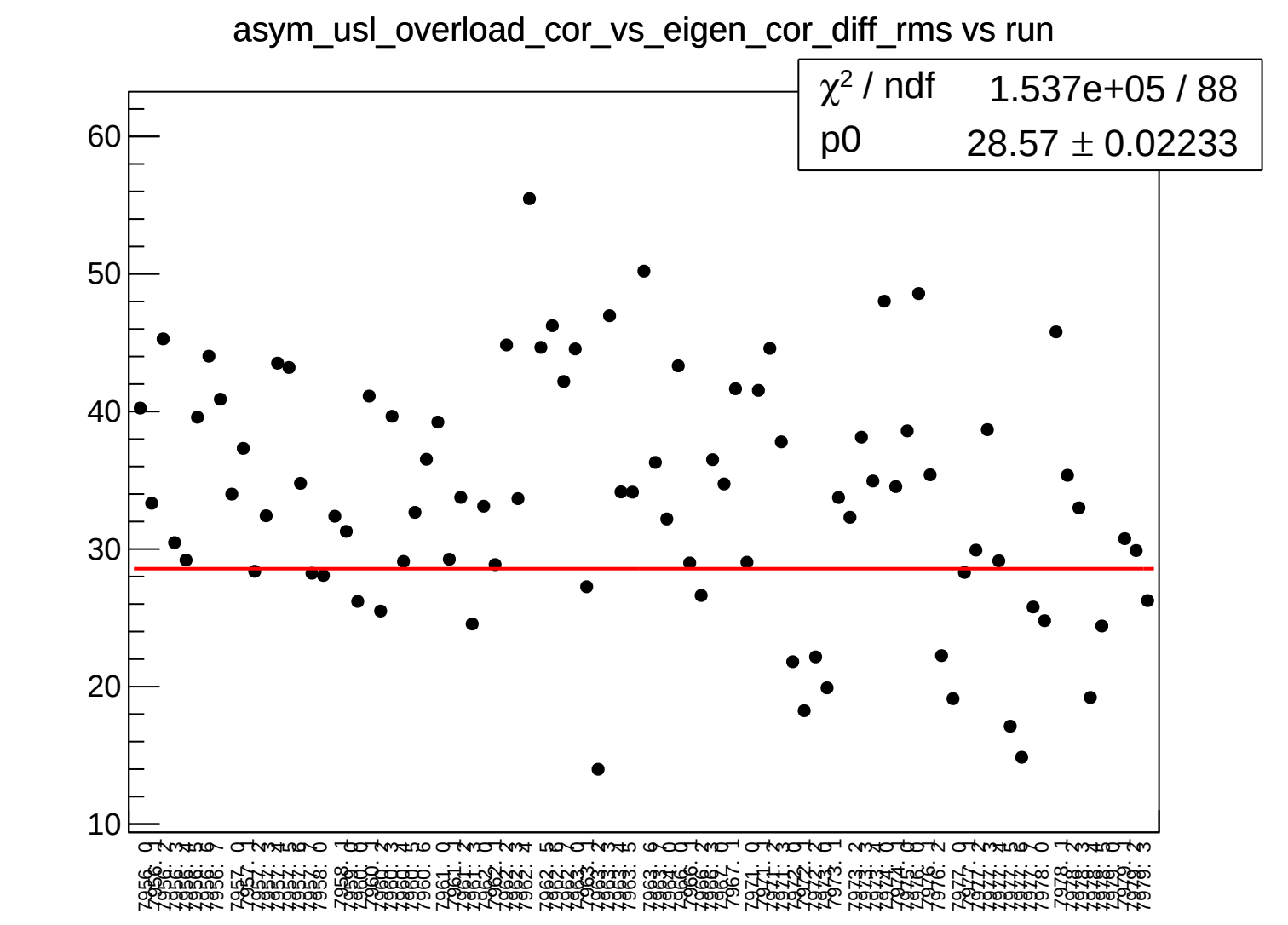

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.79e+05 / 88
p0 5.256e−11 ± 5.505e−14
1
0.8
0.6
0.4
0.2

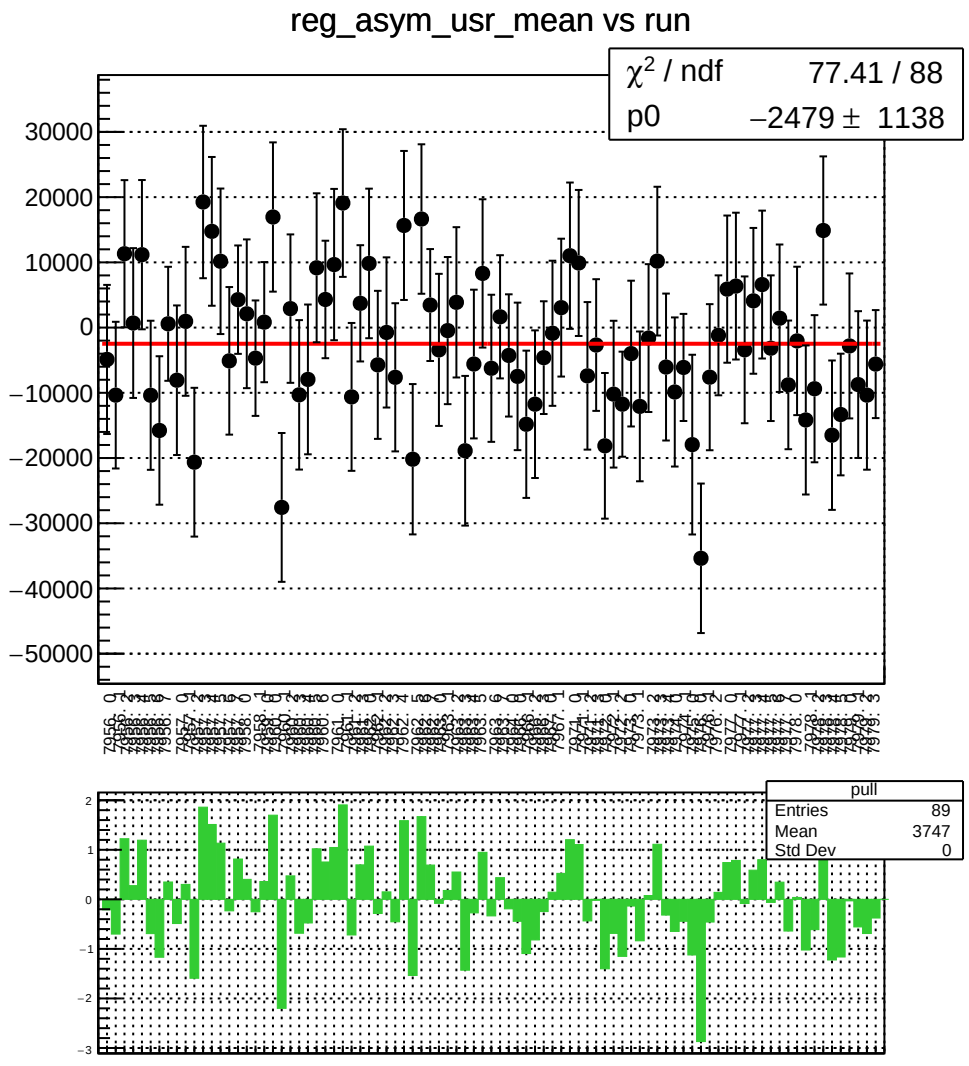

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 85.89 / 88
p0 −0.03203 ± 0.03158
pull
Entries 89
Mean 47.45
Std Dev 0

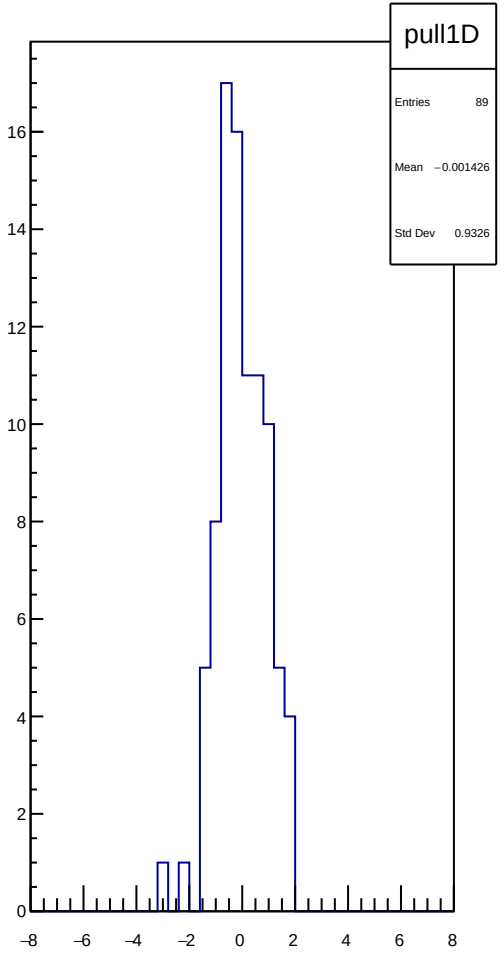

pull1D
Entries 89
Mean 0.03077
Std Dev 0.9819

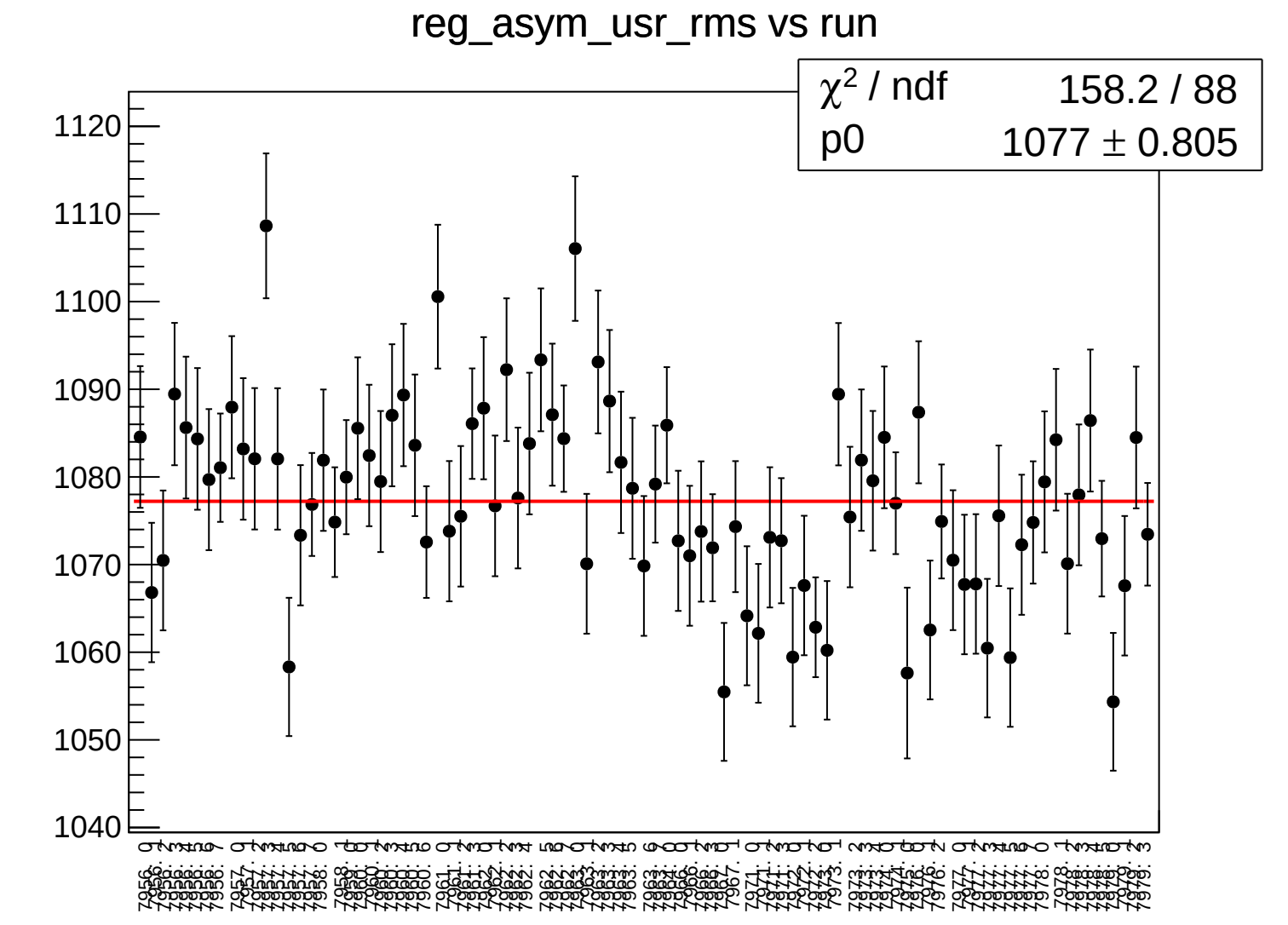

asym_usl_overload_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.537e+05 / 88
p0 28.57 ± 0.02233
60
50
40
30
20
10

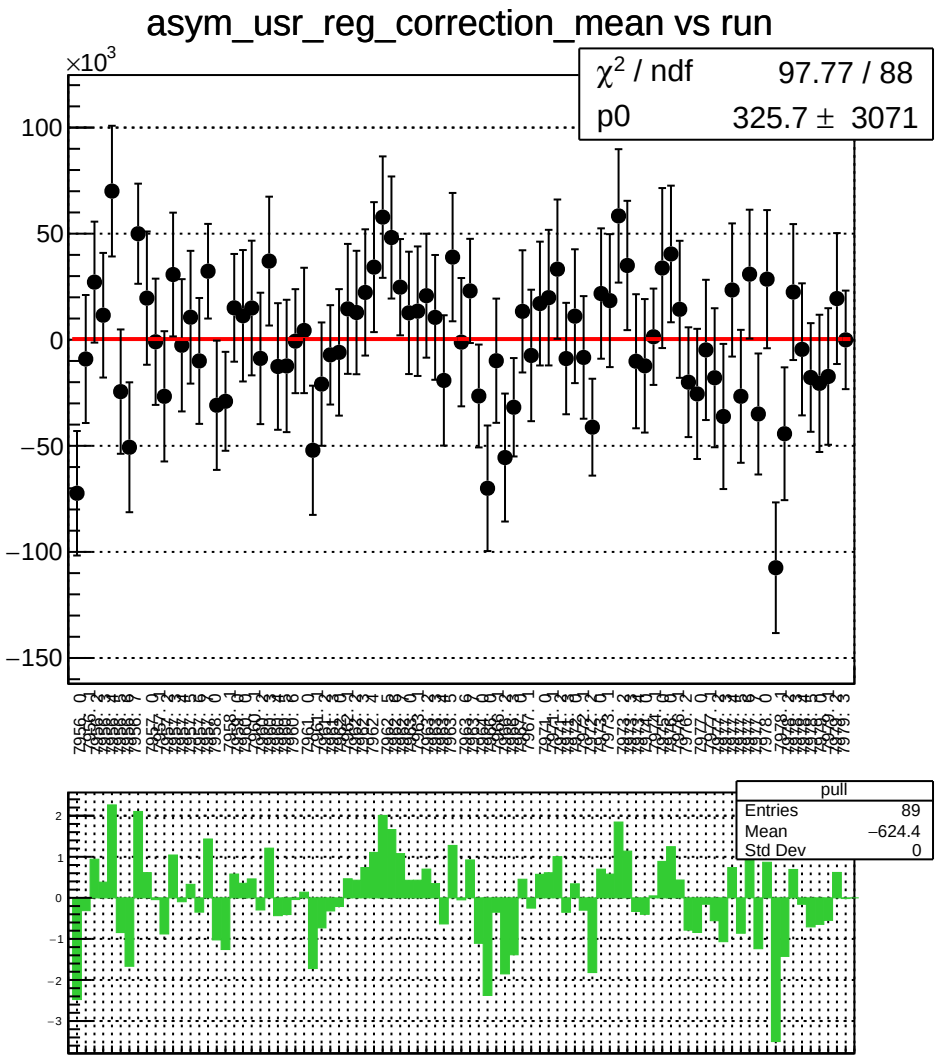

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.89 / 88
p0 −0.03203 ± 0.03158
pull
Entries 89
Mean 47.45
Std Dev 0
pull1D
Entries 89
Mean 0.03077
Std Dev 0.9819

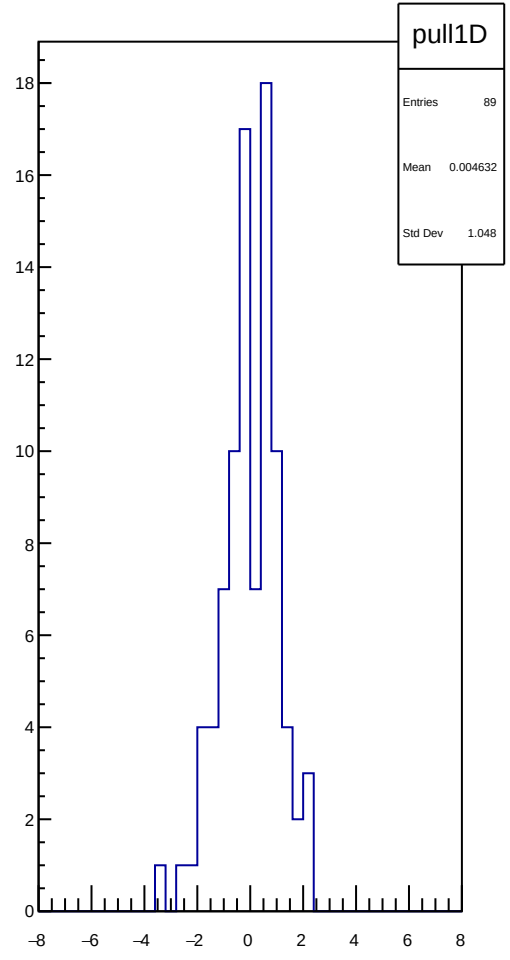

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.537e+05 / 88
p0 28.57 ± 0.02233
60
50
40
30
20
10

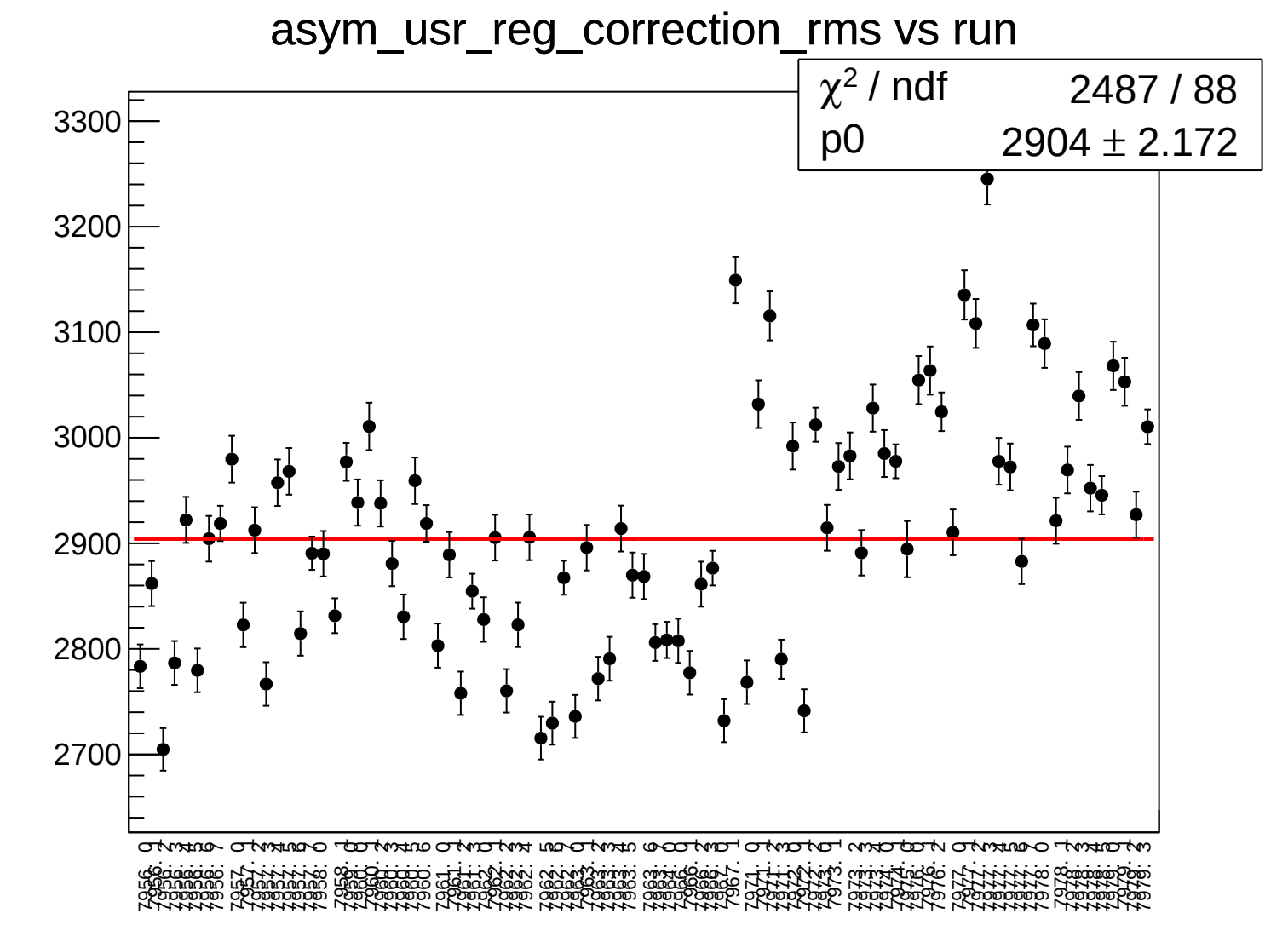

reg_asym_usr_mean vs run
χ² / ndf 77.41 / 88
p0 −2479 ± 1138
pull
Entries 89
Mean 3747
Std Dev 0

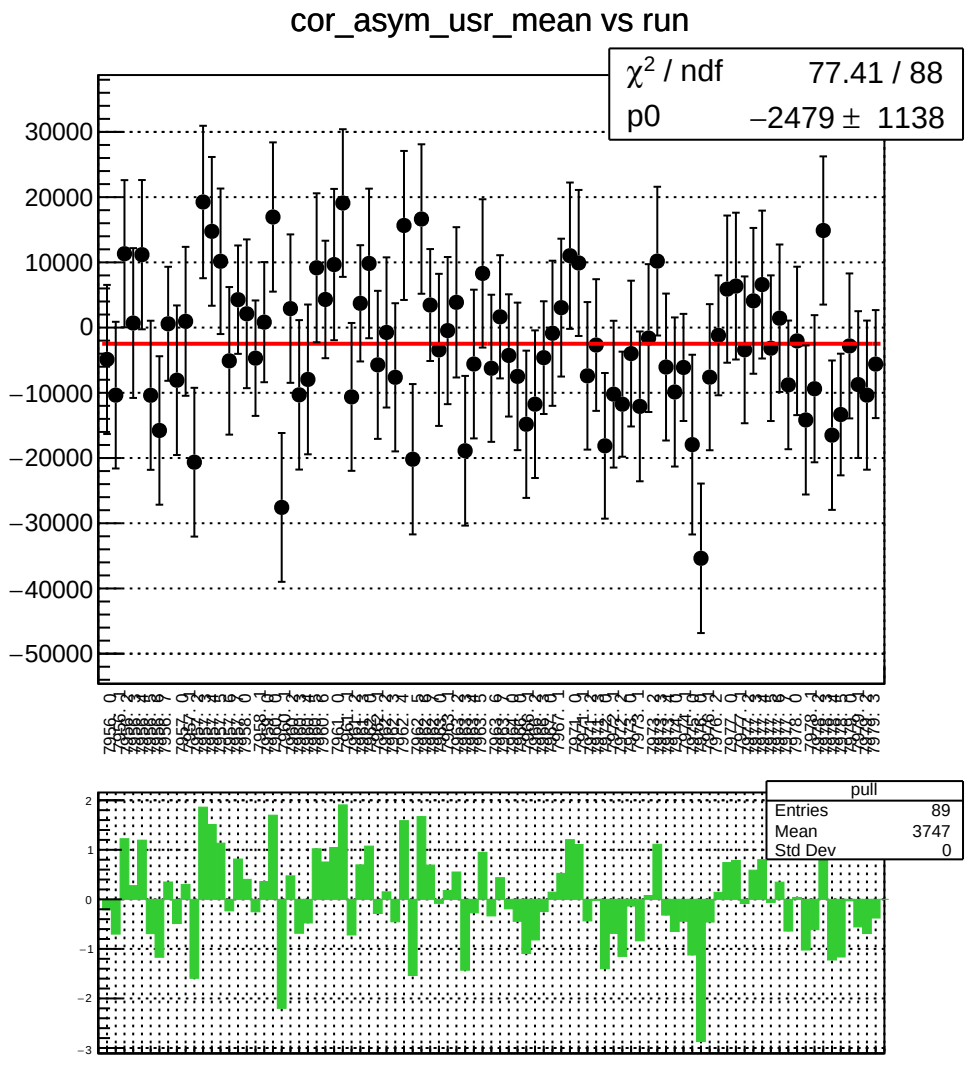

pull1D
Entries 89
Mean −0.001426
Std Dev 0.9326

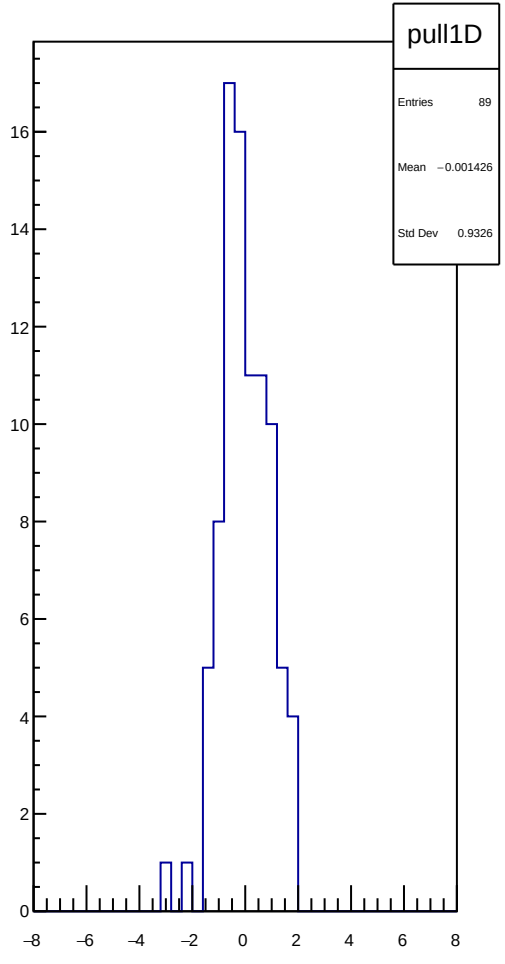

reg_asym_usr_rms vs run
$\chi^2$ / ndf 158.2 / 88
p0 1077 ± 0.805
1120
1110
1100
1090
1080
1070
1060
1050
1040

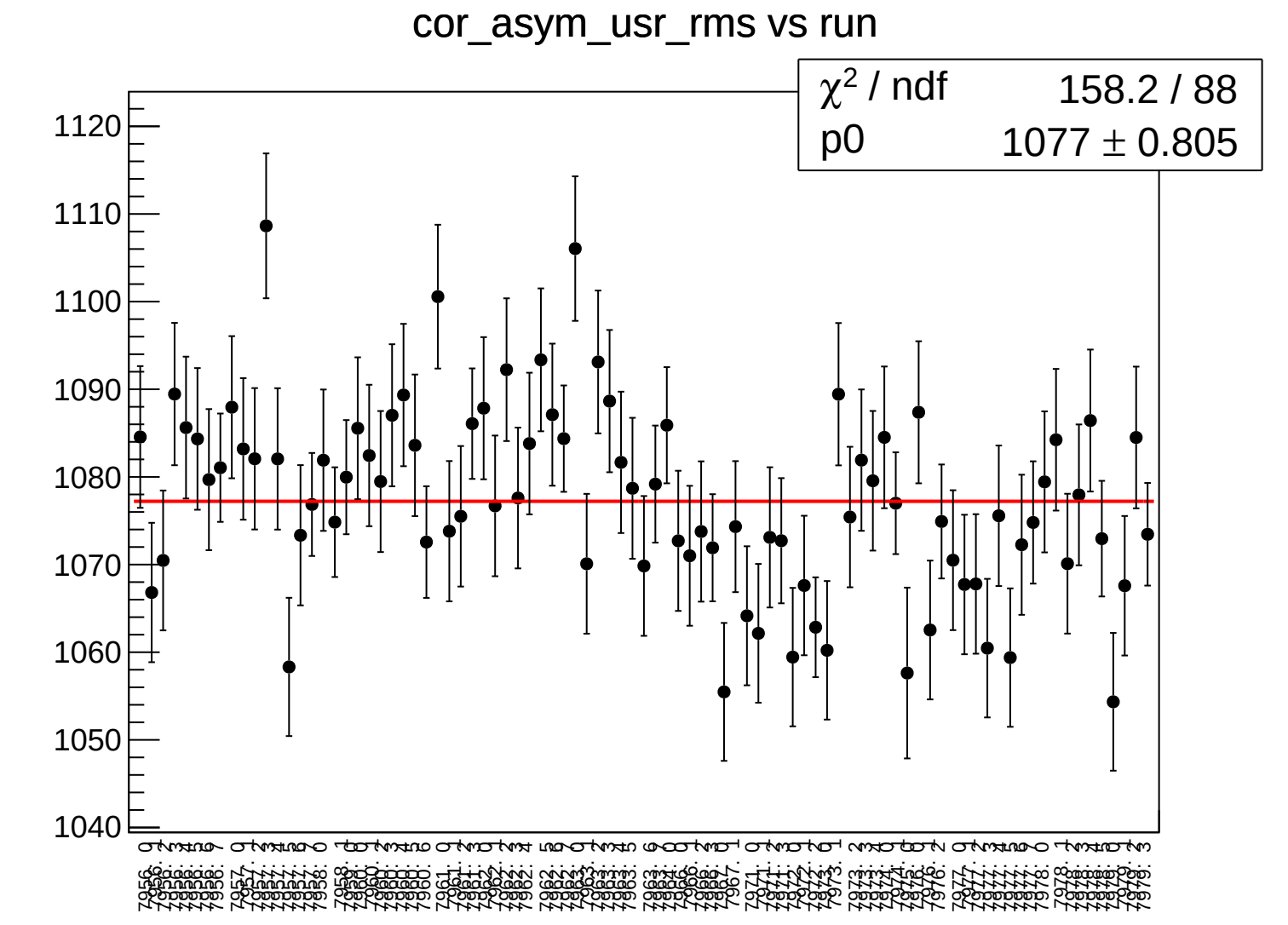

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 97.77 / 88
p0 325.7 ± 3071
pull
Entries 89
Mean −624.4
Std Dev 0

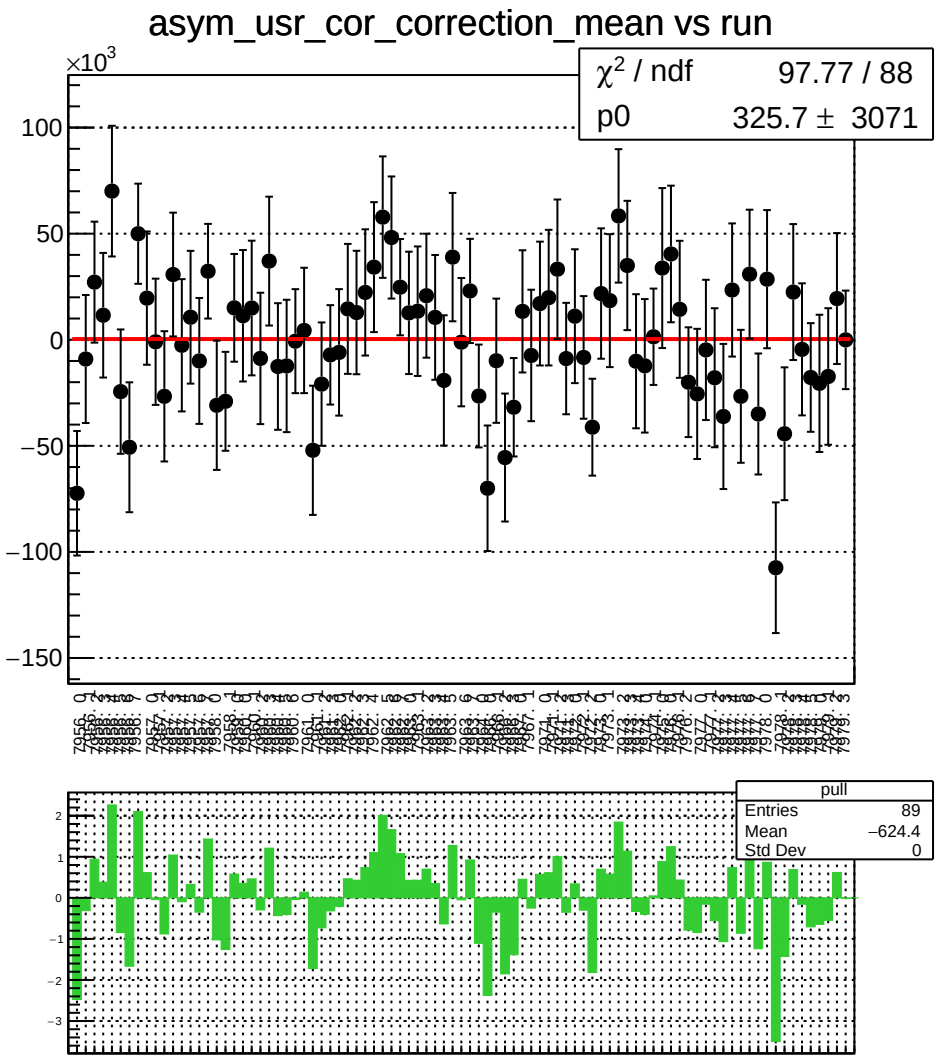

pull1D
Entries 89
Mean 0.004632
Std Dev 1.048

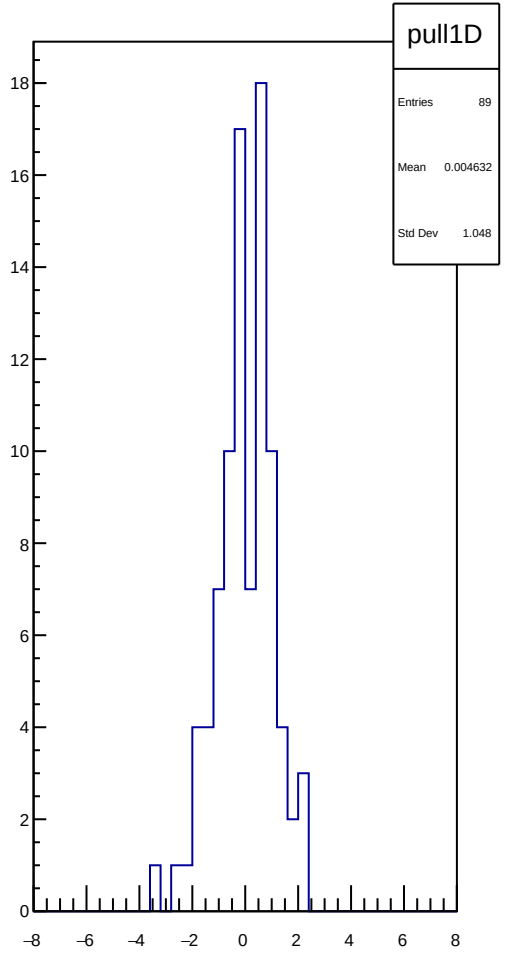

asym_usr_reg_correction_rms vs run
χ² / ndf 2487 / 88
p0 2904 ± 2.172
3300
3200
3100
3000
2900
2800
2700

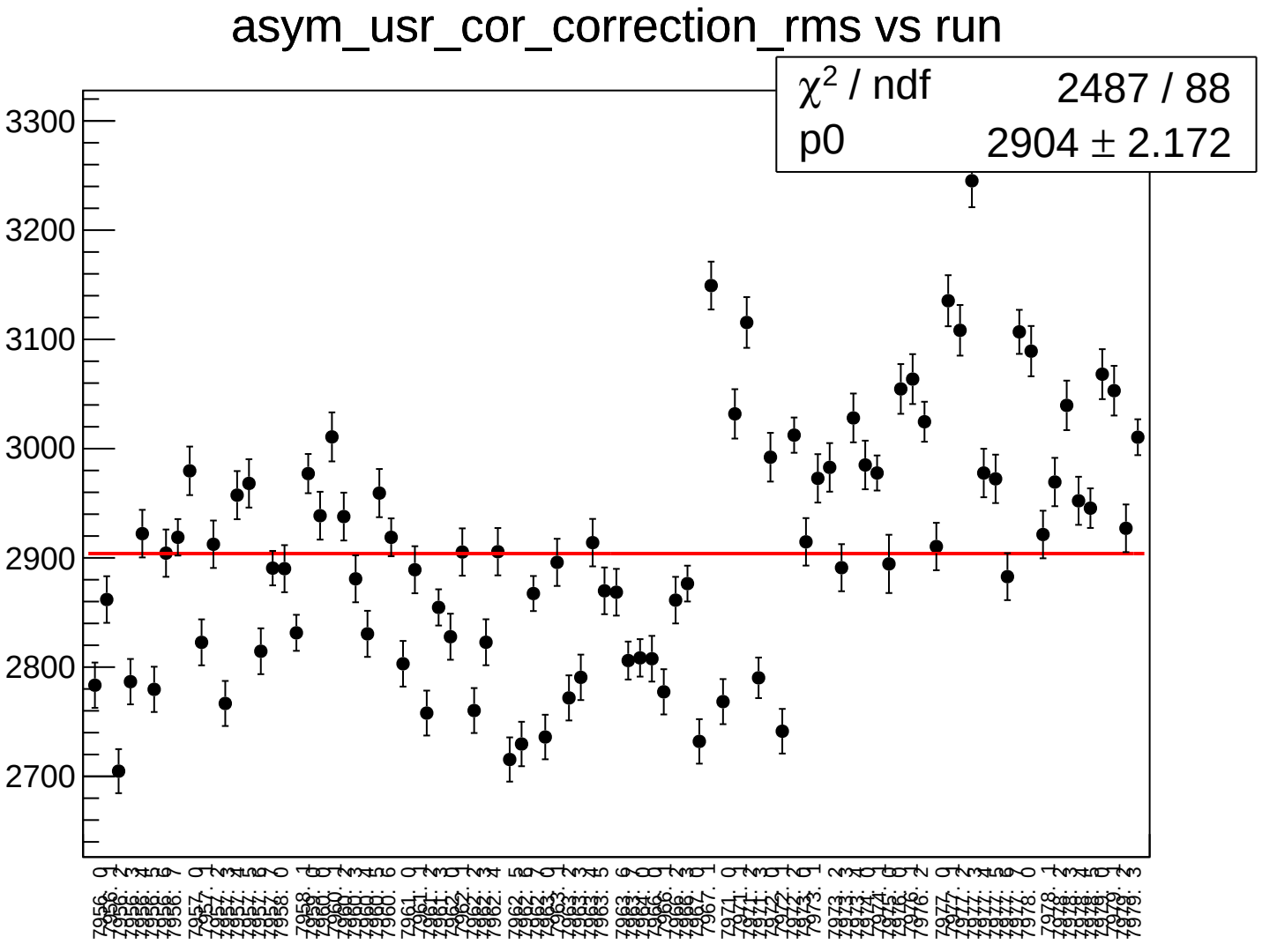

cor_asym_usr_mean vs run
χ² / ndf 77.41 / 88
p0 −2479 ± 1138
pull
Entries 89
Mean 3747
Std Dev 0

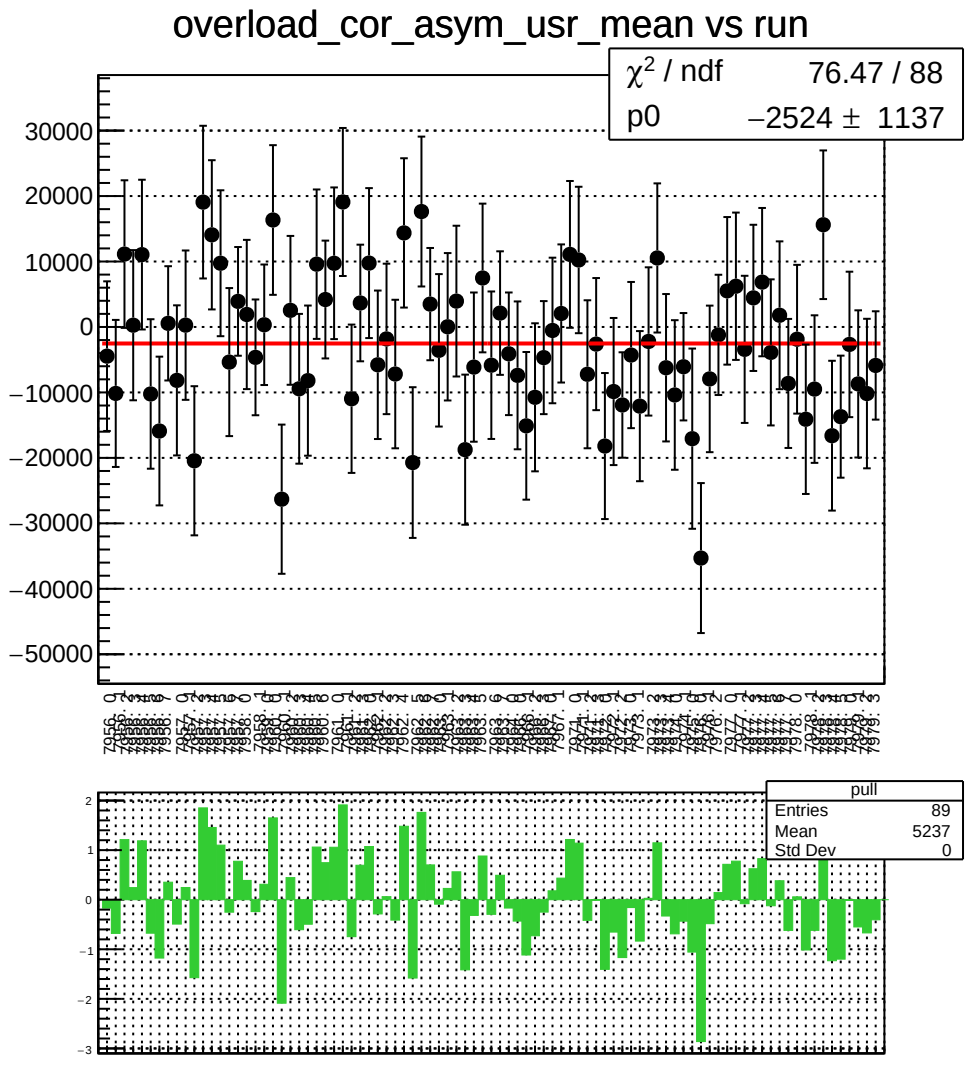

pull1D
Entries 89
Mean −0.001426
Std Dev 0.9326

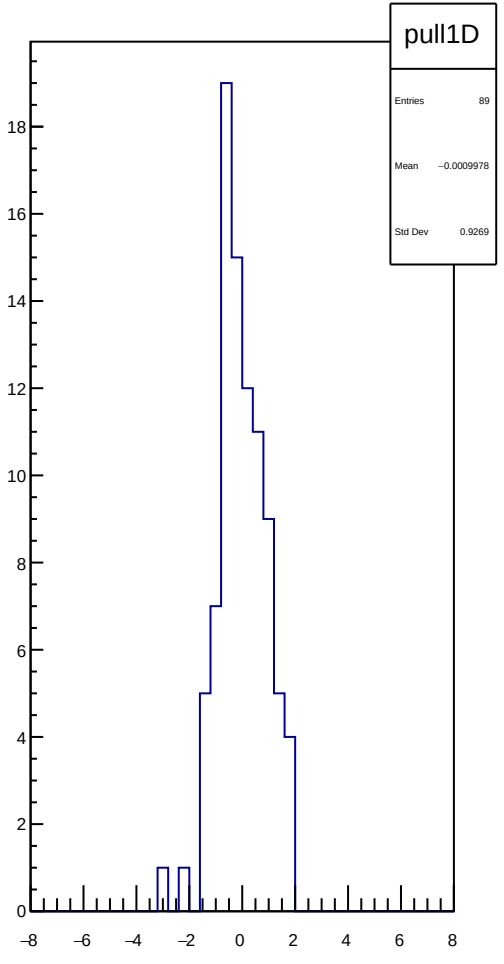

cor_asym_usr_rms vs run
χ² / ndf 158.2 / 88
p0 1077 ± 0.805
1120
1110
1100
1090
1080
1070
1060
1050
1040

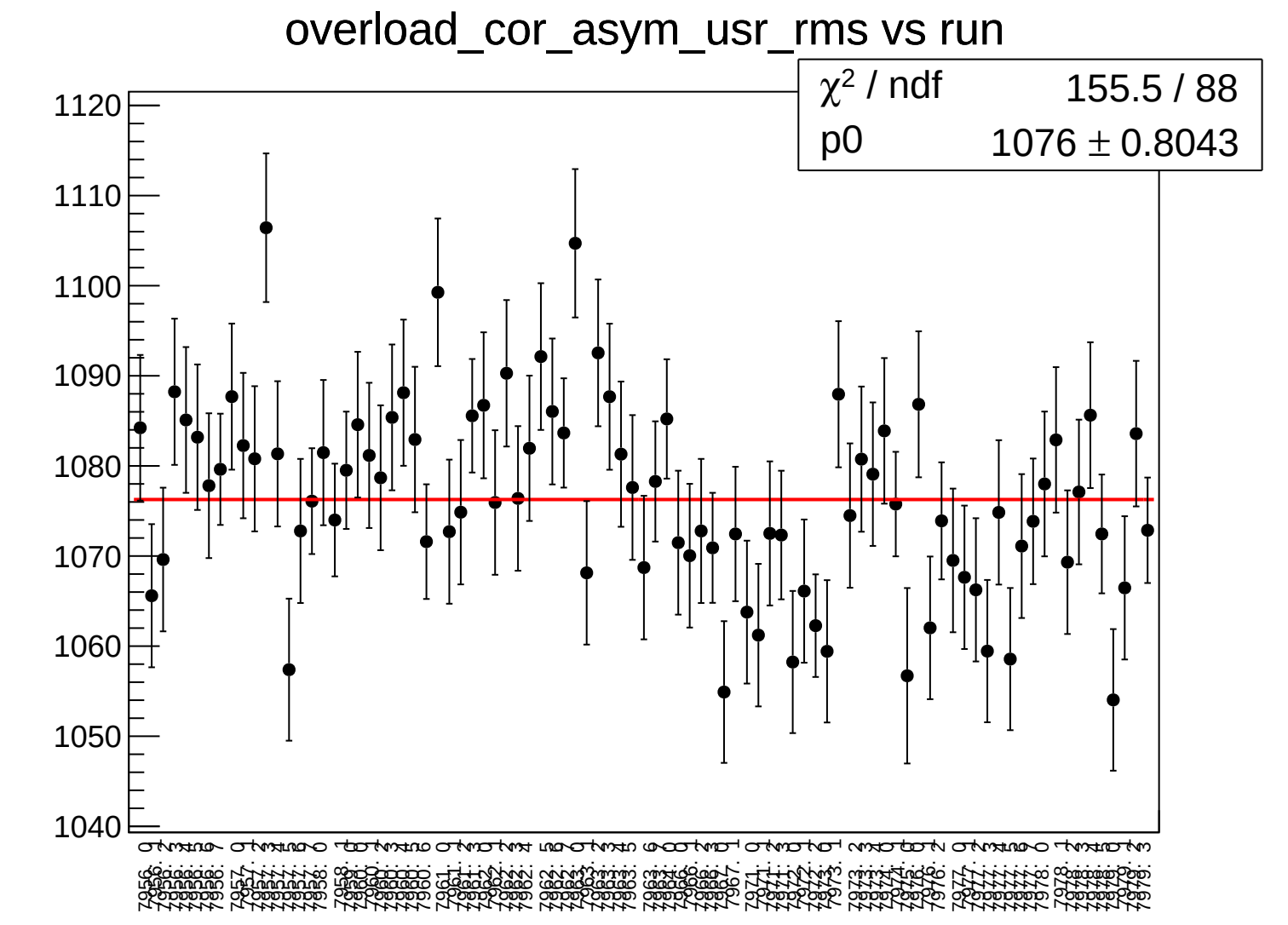

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 97.77 / 88
p0 325.7 ± 3071
pull
Entries 89
Mean −624.4
Std Dev 0

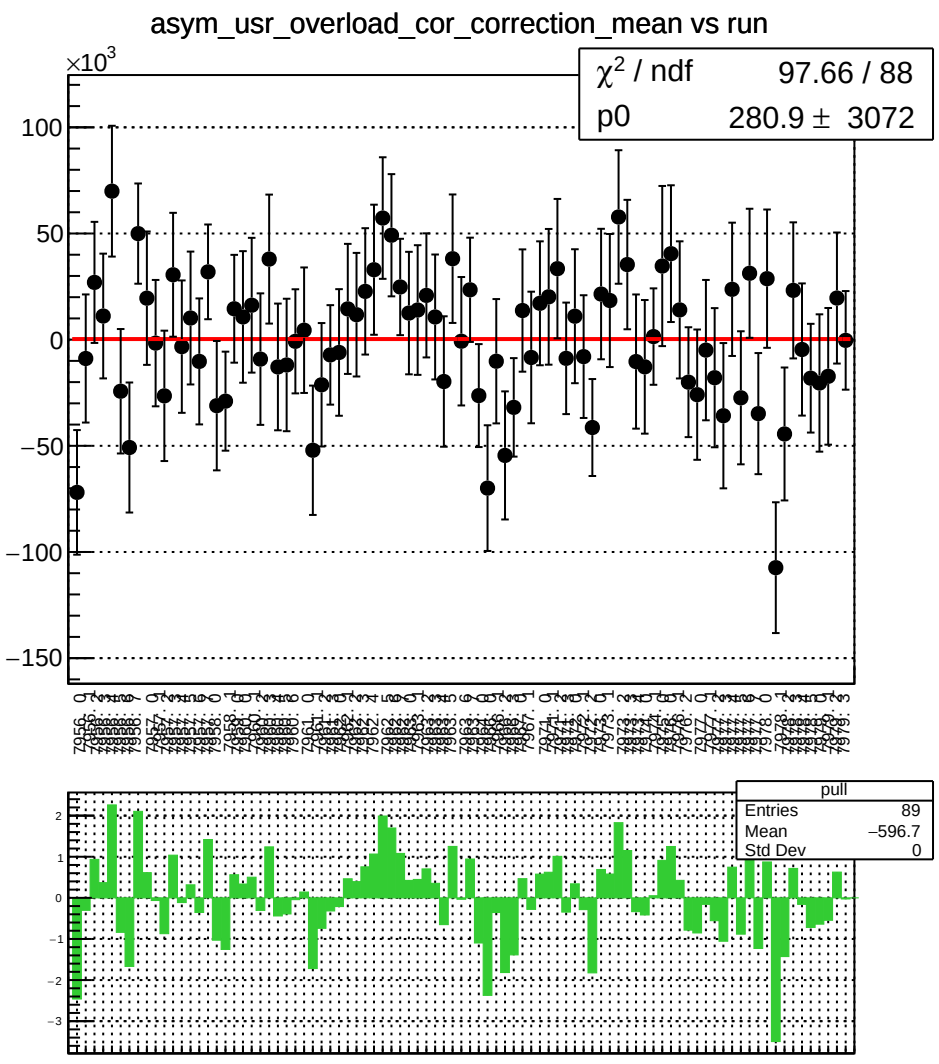

pull1D
Entries 89
Mean 0.004632
Std Dev 1.048

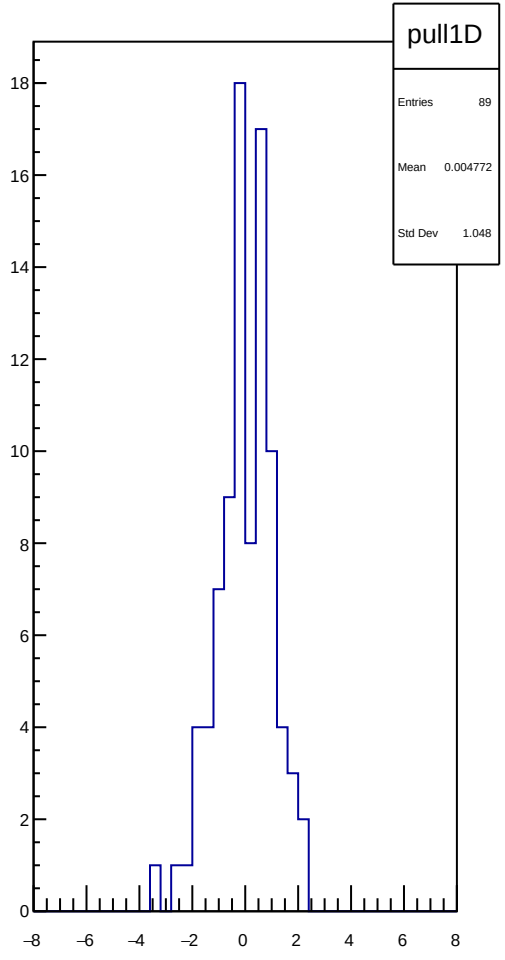

asym_usr_cor_correction_rms vs run
χ² / ndf 2487 / 88
p0 2904 ± 2.172
3300
3200
3100
3000
2900
2800
2700

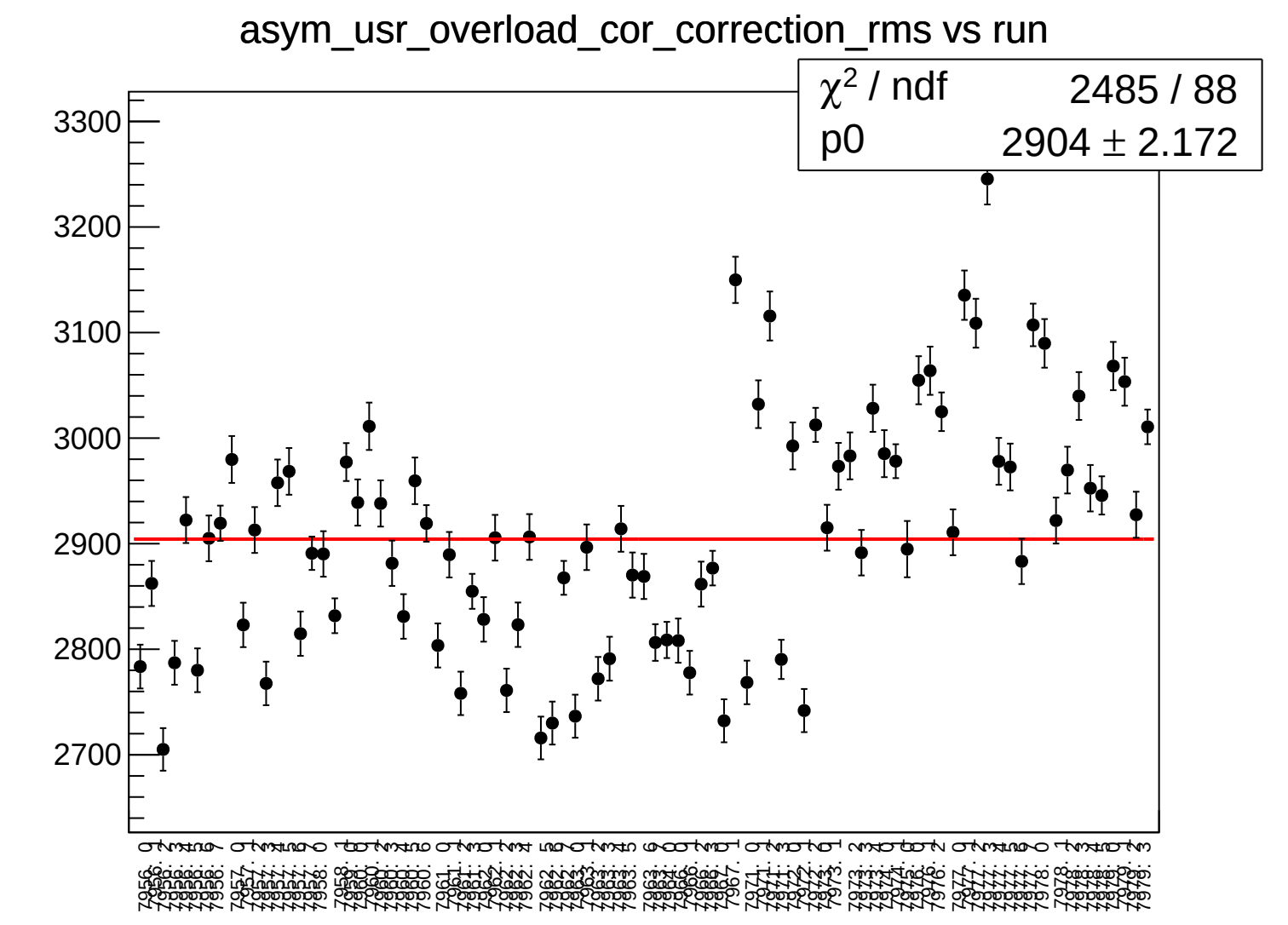

overload_cor_asym_usr_mean vs run
χ² / ndf 76.47 / 88
p0 −2524 ± 1137
pull
Entries 89
Mean 5237
Std Dev 0

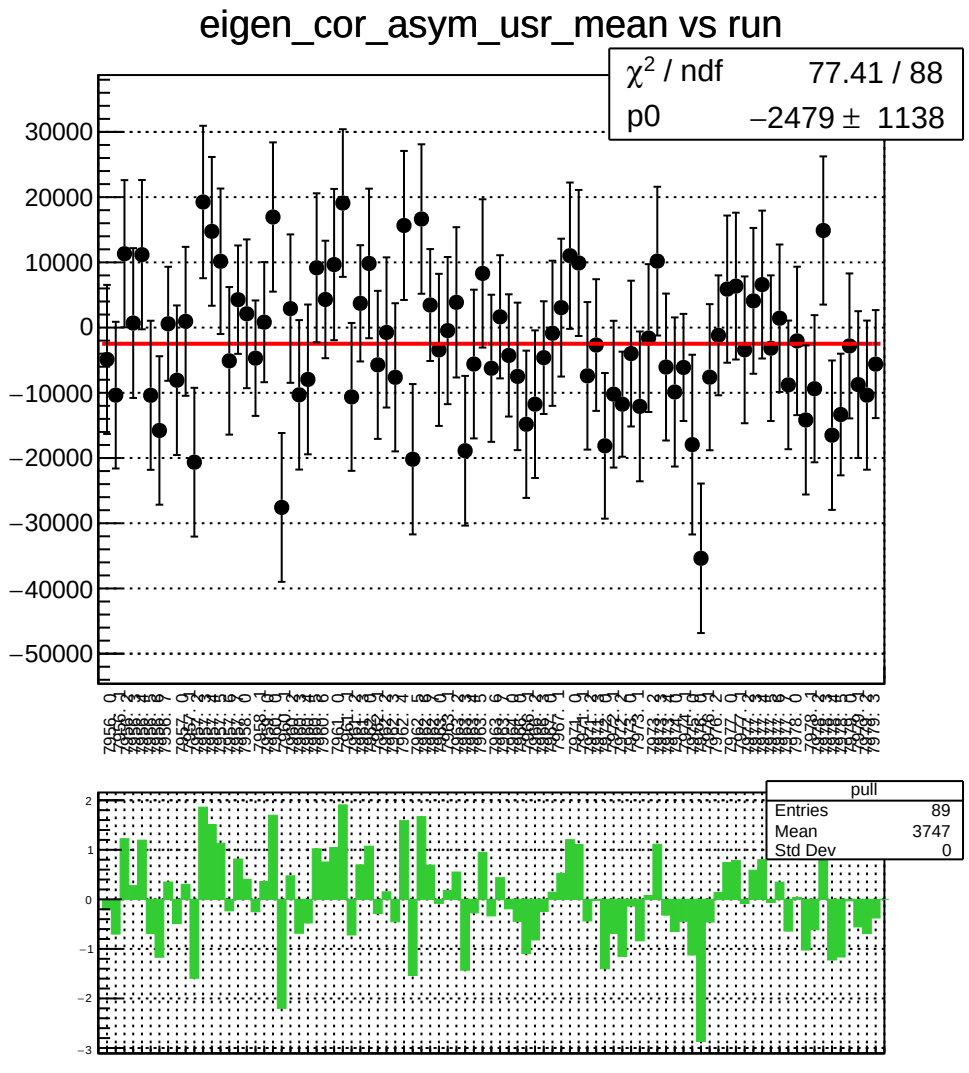

pull1D
Entries 89
Mean −0.0009978
Std Dev 0.9269

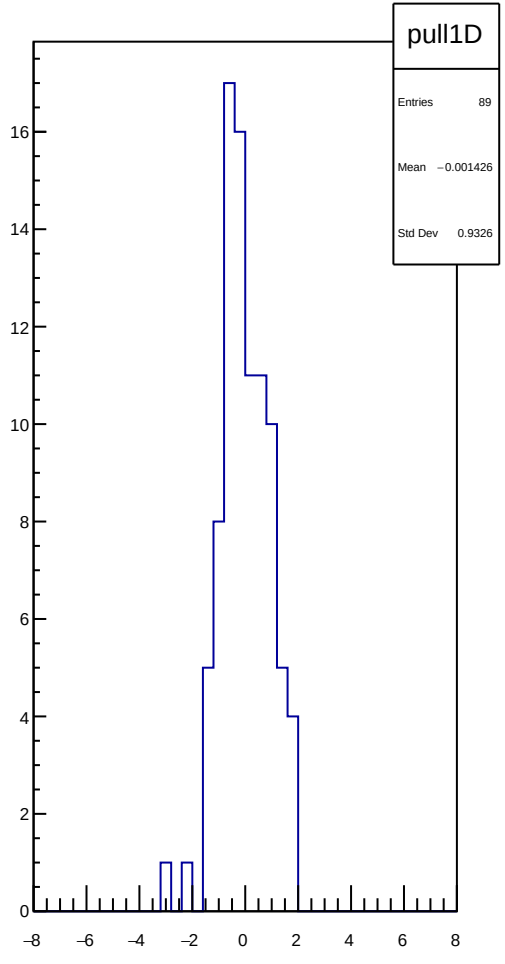

overload_cor_asym_usr_rms vs run
χ² / ndf 155.5 / 88
p0 1076 ± 0.8043
1120
1110
1100
1090
1080
1070
1060
1050
1040

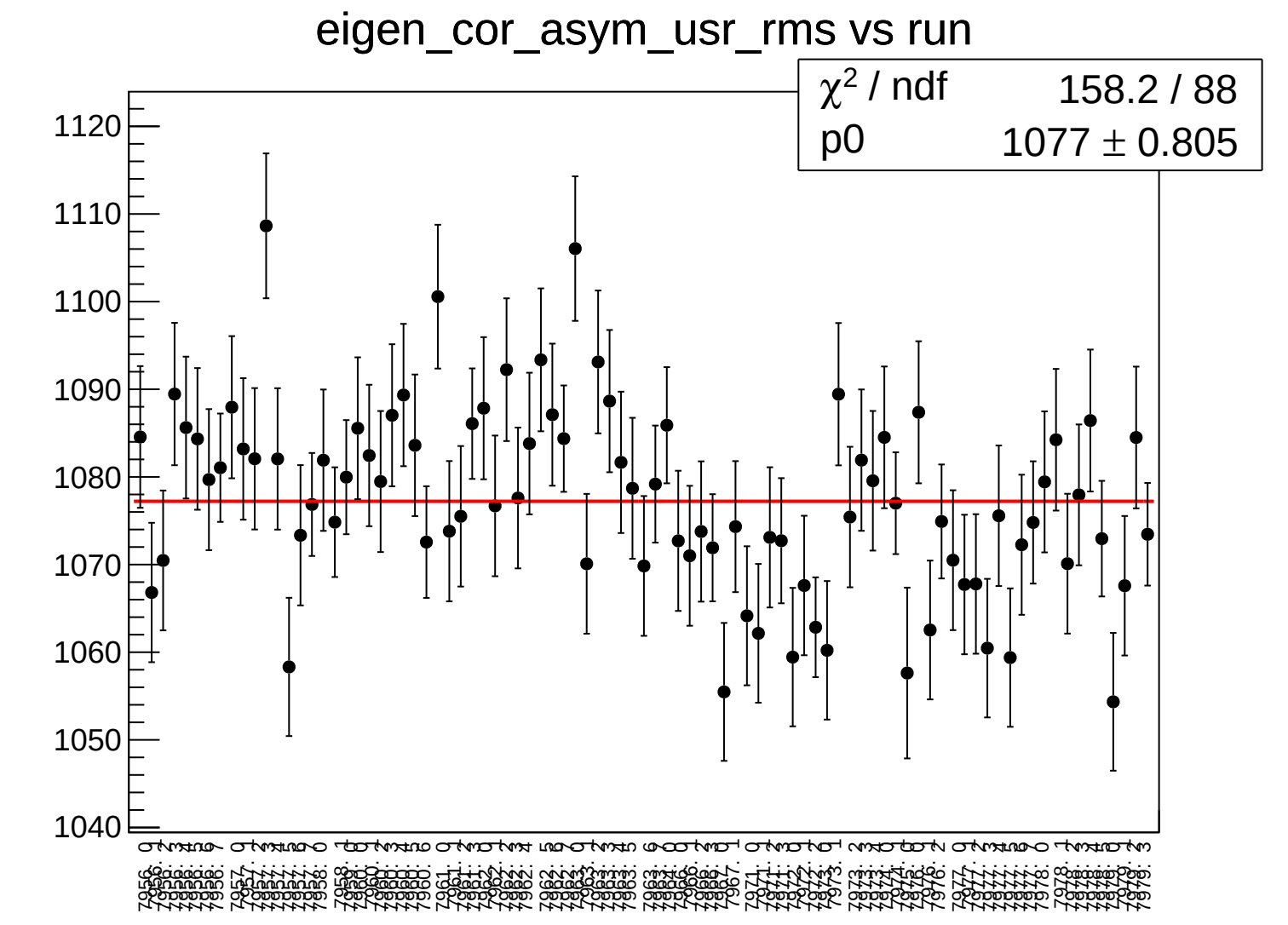

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 97.66 / 88
p0 280.9 ± 3072
100
50
0
−50
−100
−150
pull
Entries 89
Mean −596.7
Std Dev 0
2
1
0
−1
−2
−3

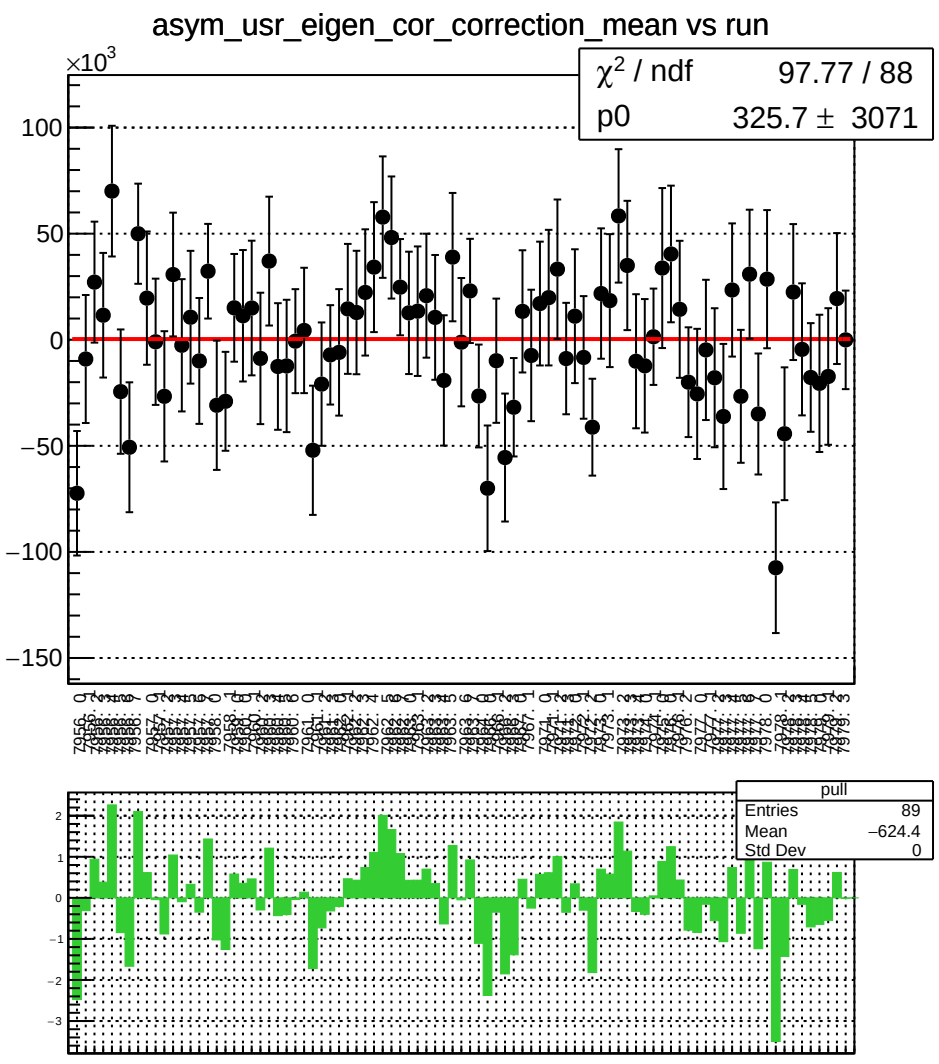

pull1D
Entries 89
Mean 0.004772
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

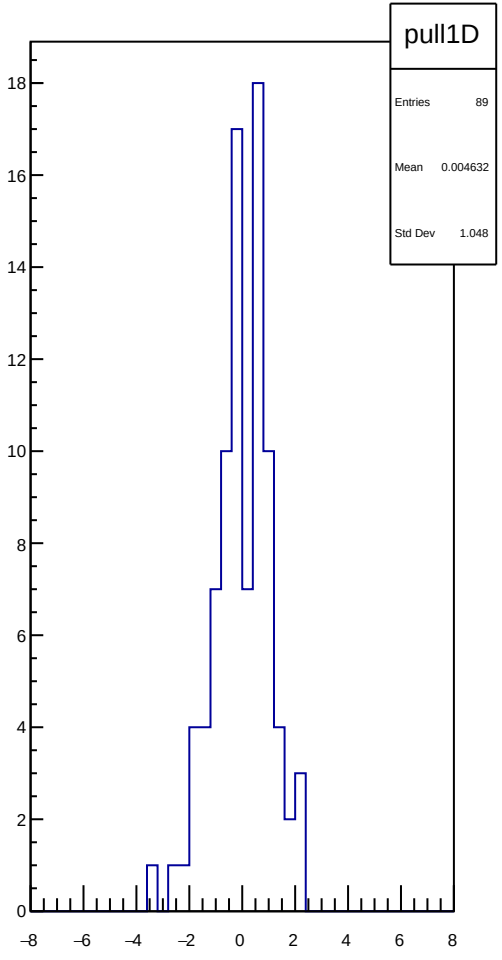

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 2485 / 88
p0 2904 ± 2.172
3300
3200
3100
3000
2900
2800
2700

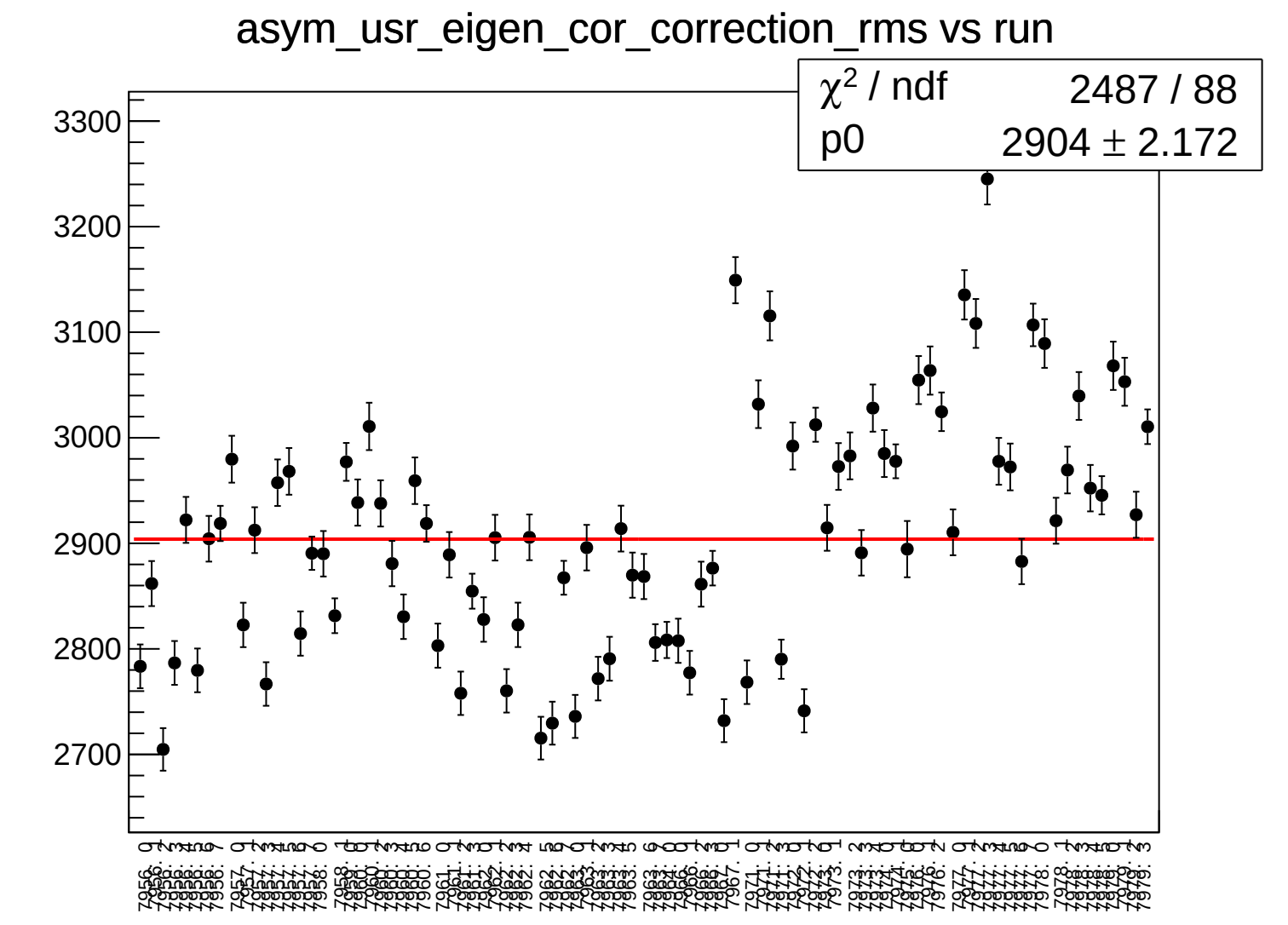

eigen_cor_asym_usr_mean vs run
χ² / ndf 77.41 / 88
p0 −2479 ± 1138
pull
Entries 89
Mean 3747
Std Dev 0

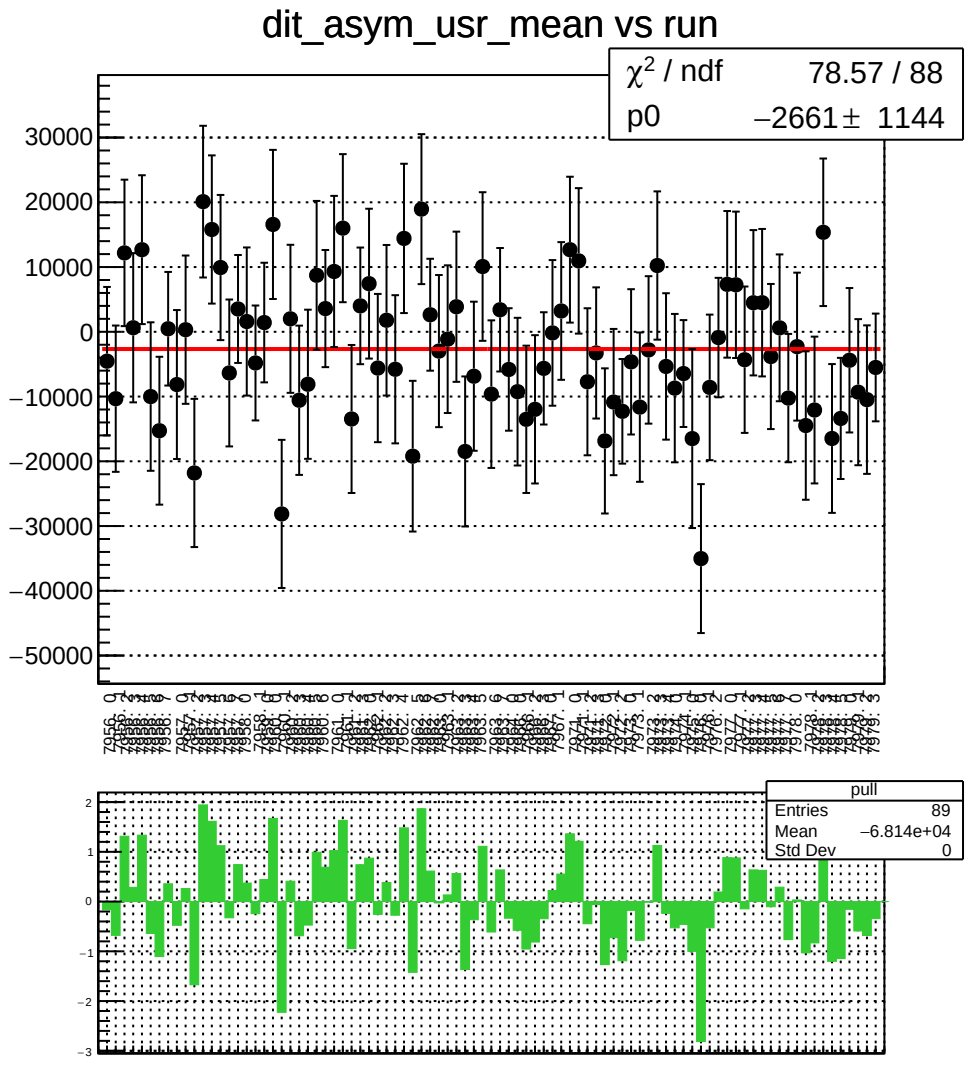

pull1D
Entries 89
Mean −0.001426
Std Dev 0.9326

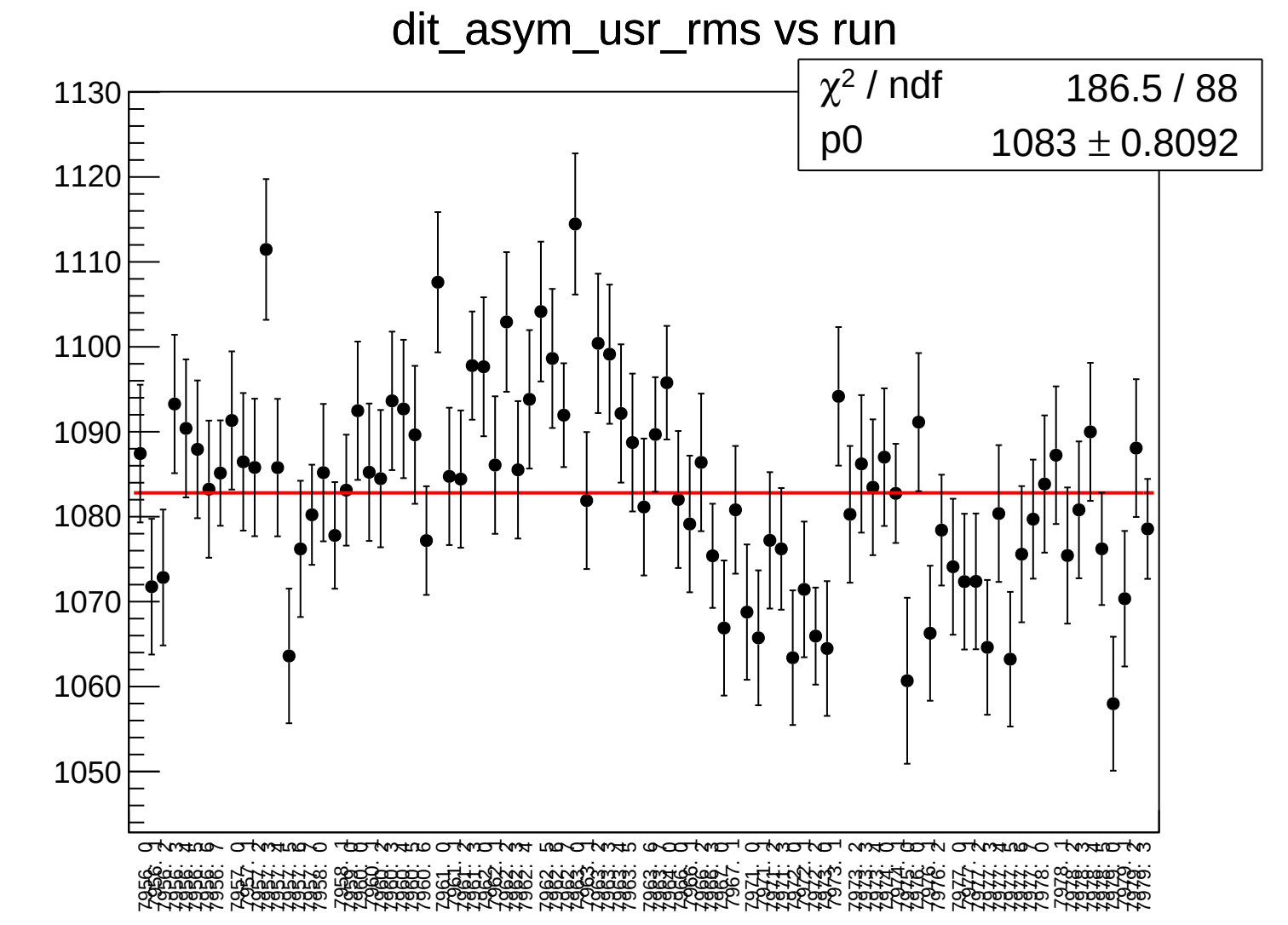

eigen_cor_asym_usr_rms vs run
χ² / ndf 158.2 / 88
p0 1077 ± 0.805
1120
1110
1100
1090
1080
1070
1060
1050
1040

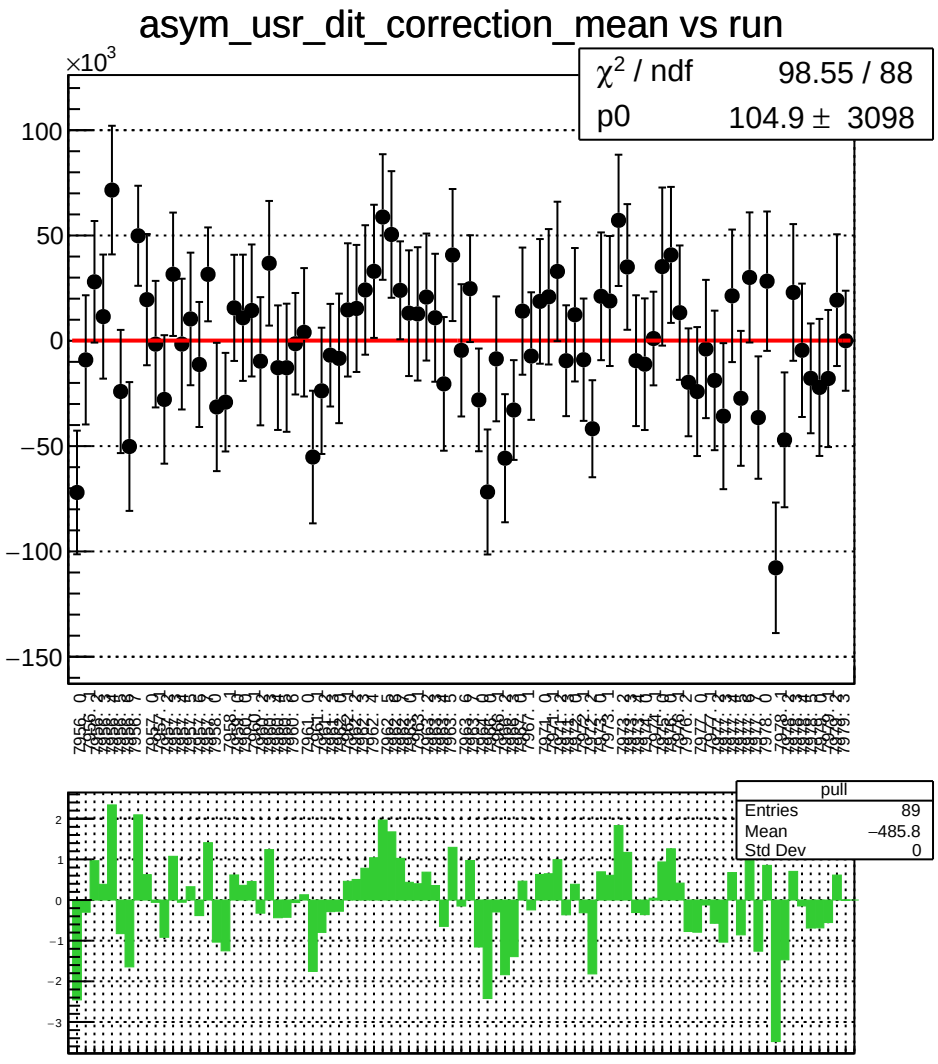

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.77 / 88
p0 325.7 ± 3071
pull
Entries 89
Mean −624.4
Std Dev 0

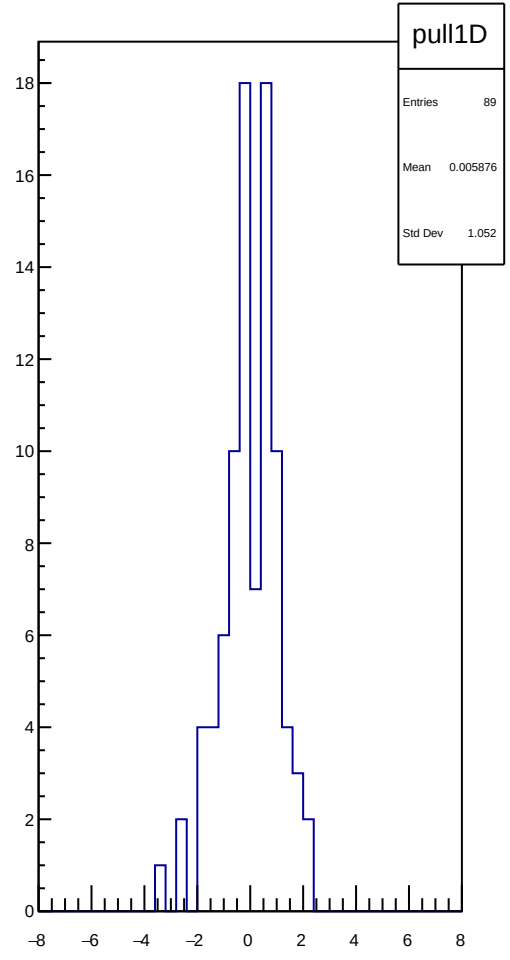

pull1D
Entries 89
Mean 0.004632
Std Dev 1.048

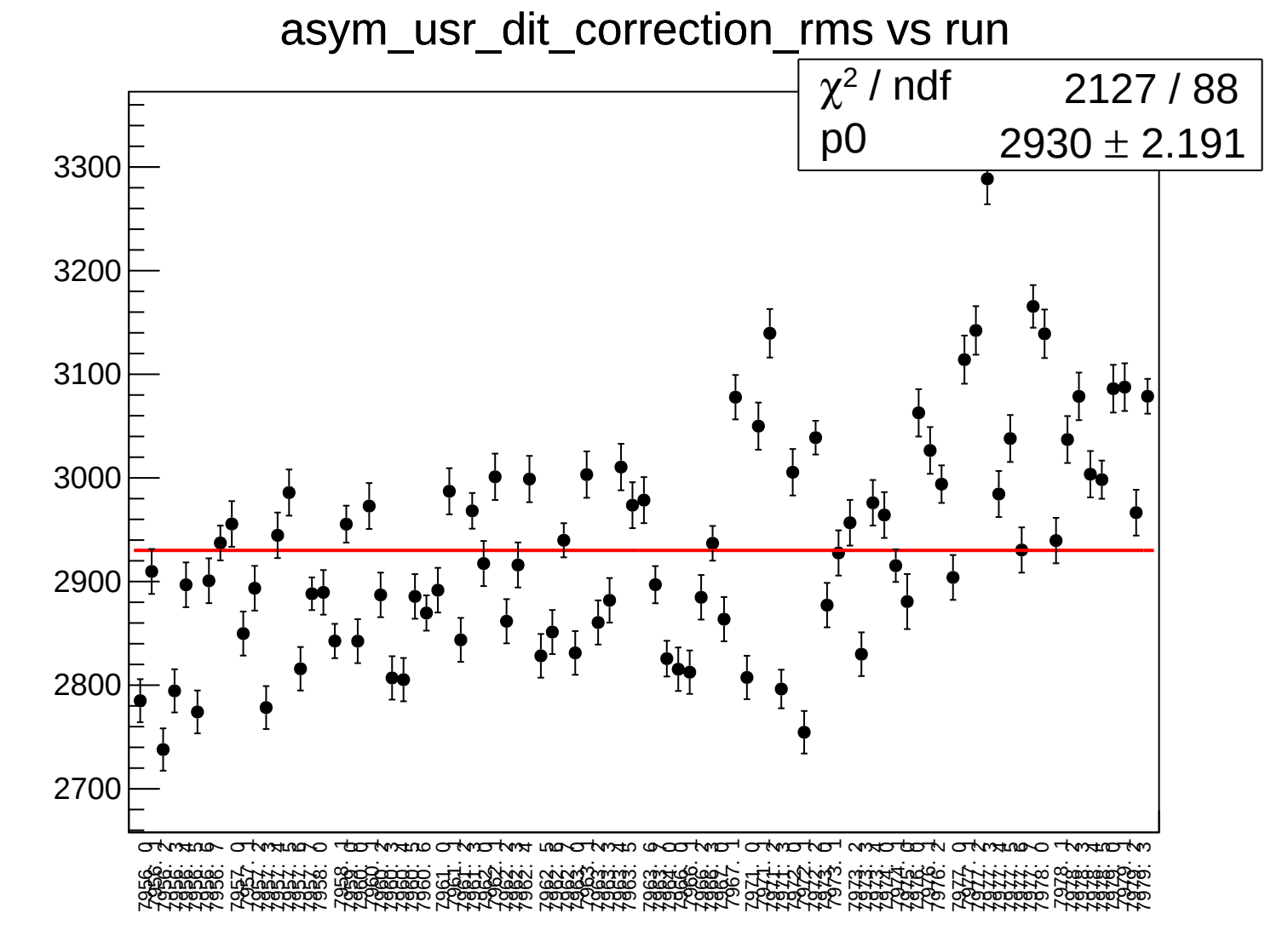

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 2487 / 88
p0 2904 ± 2.172
3300
3200
3100
3000
2900
2800
2700

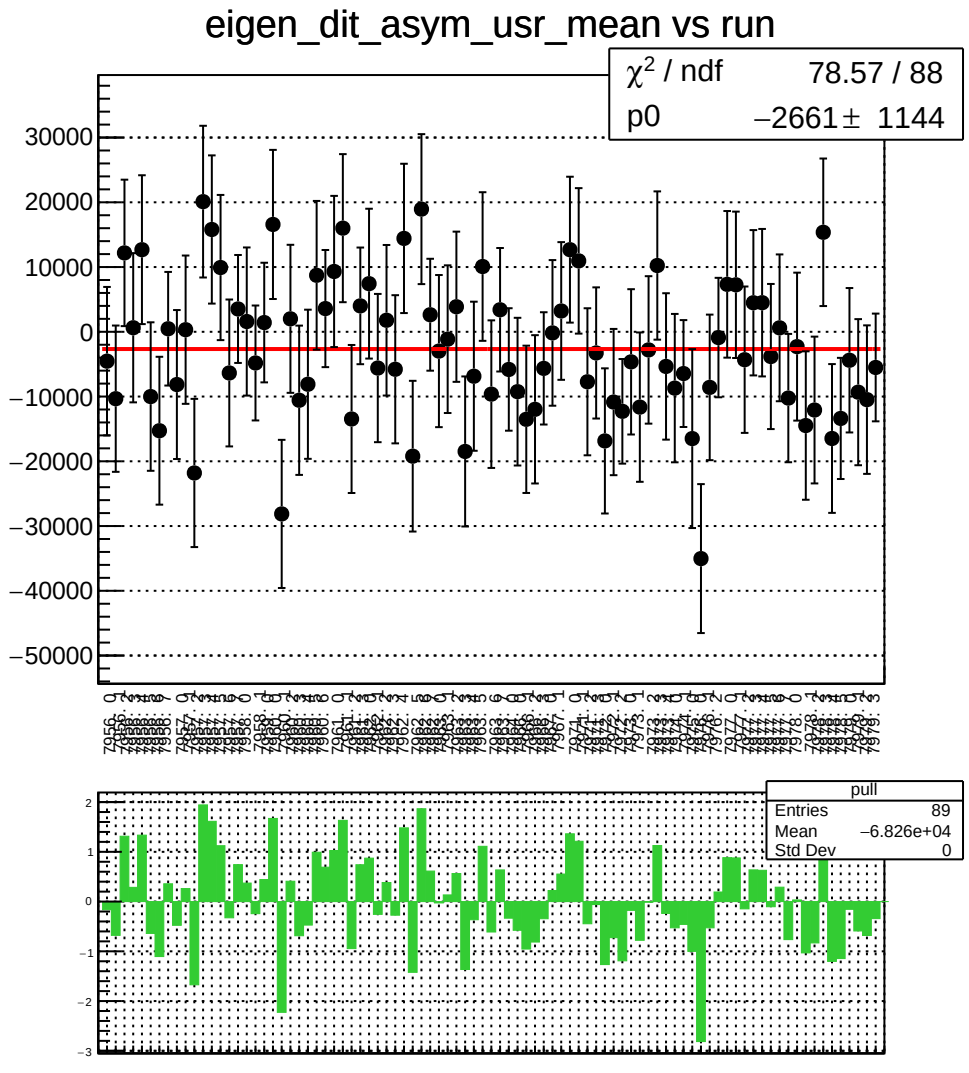

dit_asym_usr_mean vs run
χ² / ndf 78.57 / 88
p0 −2661 ± 1144
pull
Entries 89
Mean −6.814e+04
Std Dev 0
pull1D
Entries 89
Mean 7.981e−05
Std Dev 0.9396

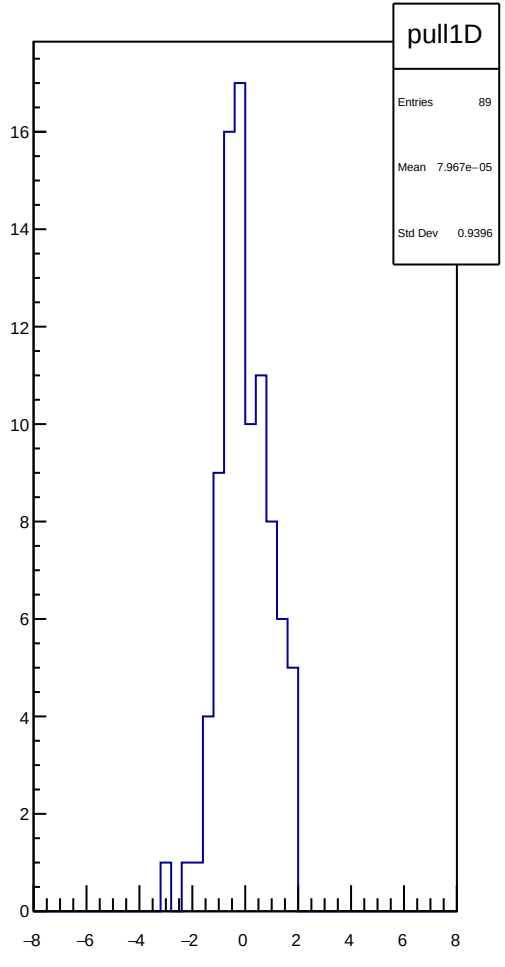

dit_asym_usr_rms vs run
χ² / ndf 186.5 / 88
p0 1083 ± 0.8092
1130
1120
1110
1100
1090
1080
1070
1060
1050

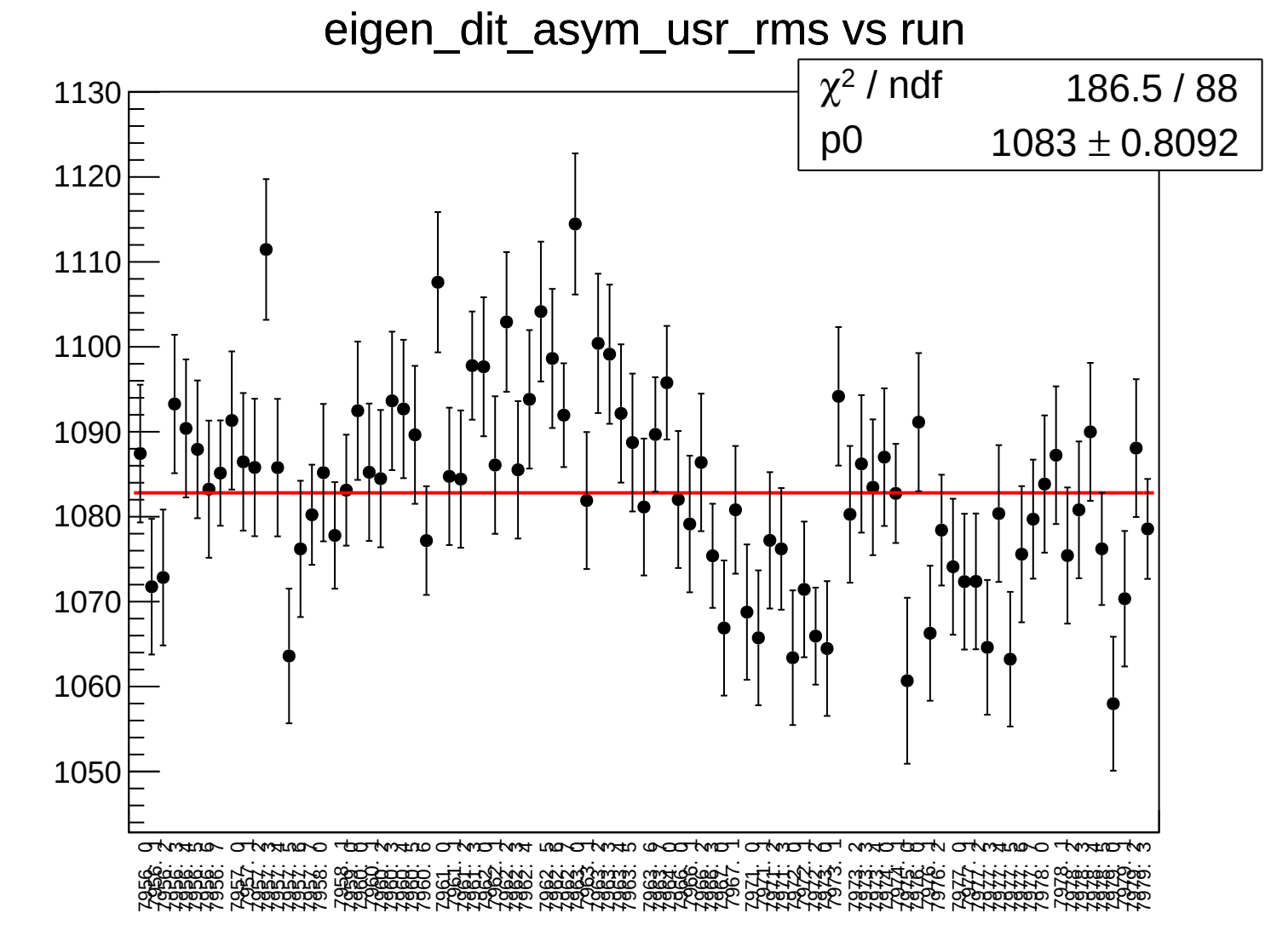

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 98.55 / 88
p0 104.9 ± 3098
100
50
0
−50
−100
−150
pull
Entries 89
Mean −485.8
Std Dev 0
2
1
0
−1
−2
−3

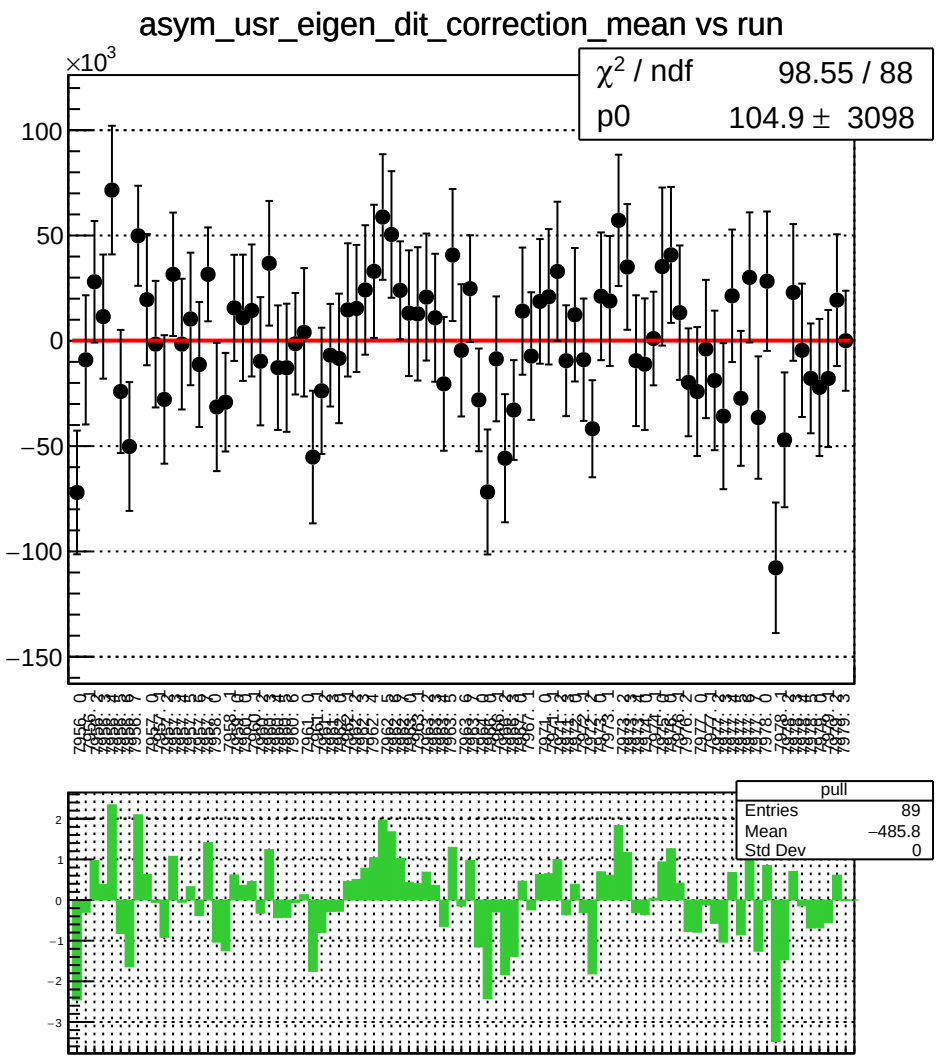

pull1D
Entries 89
Mean 0.005876
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

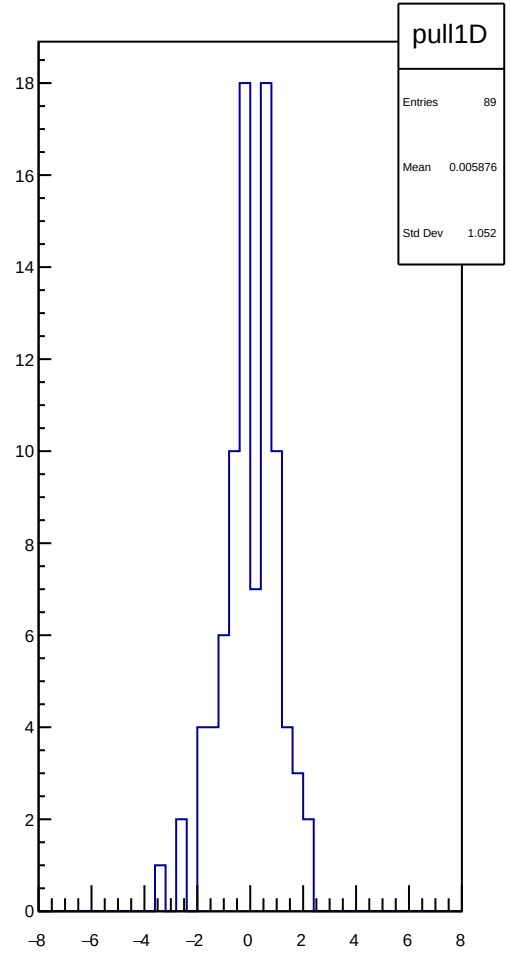

asym_usr_dit_correction_rms vs run
χ² / ndf 2127 / 88
p0 2930 ± 2.191
3300
3200
3100
3000
2900
2800
2700

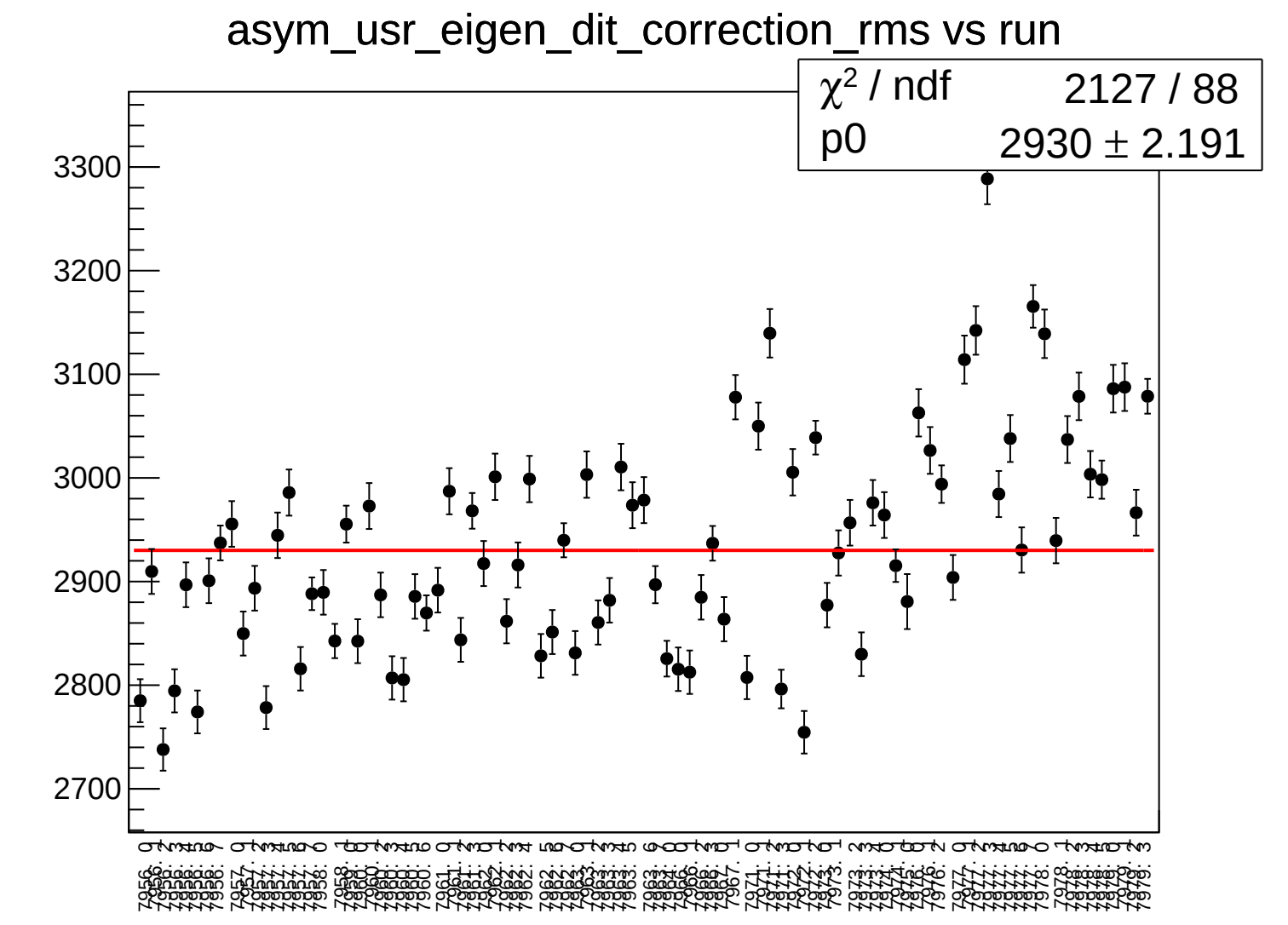

eigen_dit_asym_usr_mean vs run
χ² / ndf 78.57 / 88
p0 −2661 ± 1144
pull
Entries 89
Mean −6.826e+04
Std Dev 0

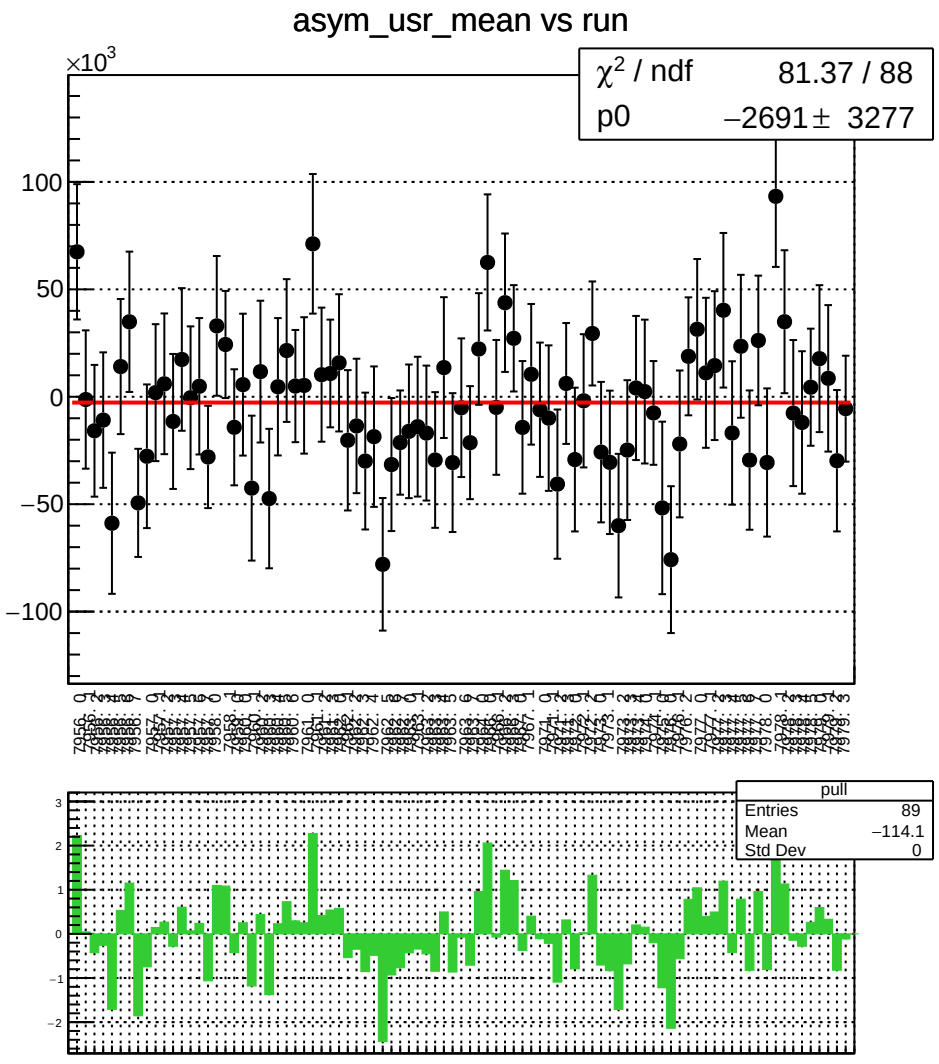

pull1D
Entries 89
Mean 7.967e−05
Std Dev 0.9396

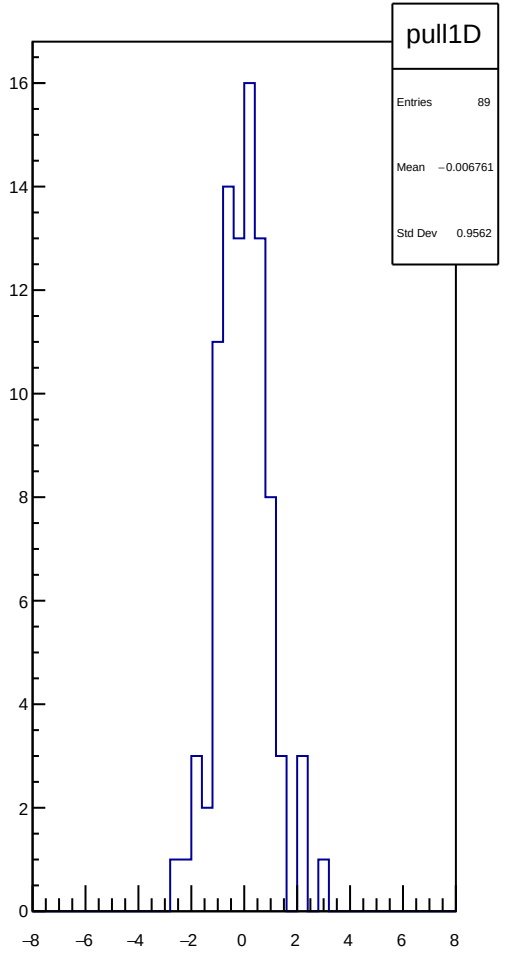

eigen_dit_asym_usr_rms vs run
χ² / ndf 186.5 / 88
p0 1083 ± 0.8092
1130
1120
1110
1100
1090
1080
1070
1060
1050

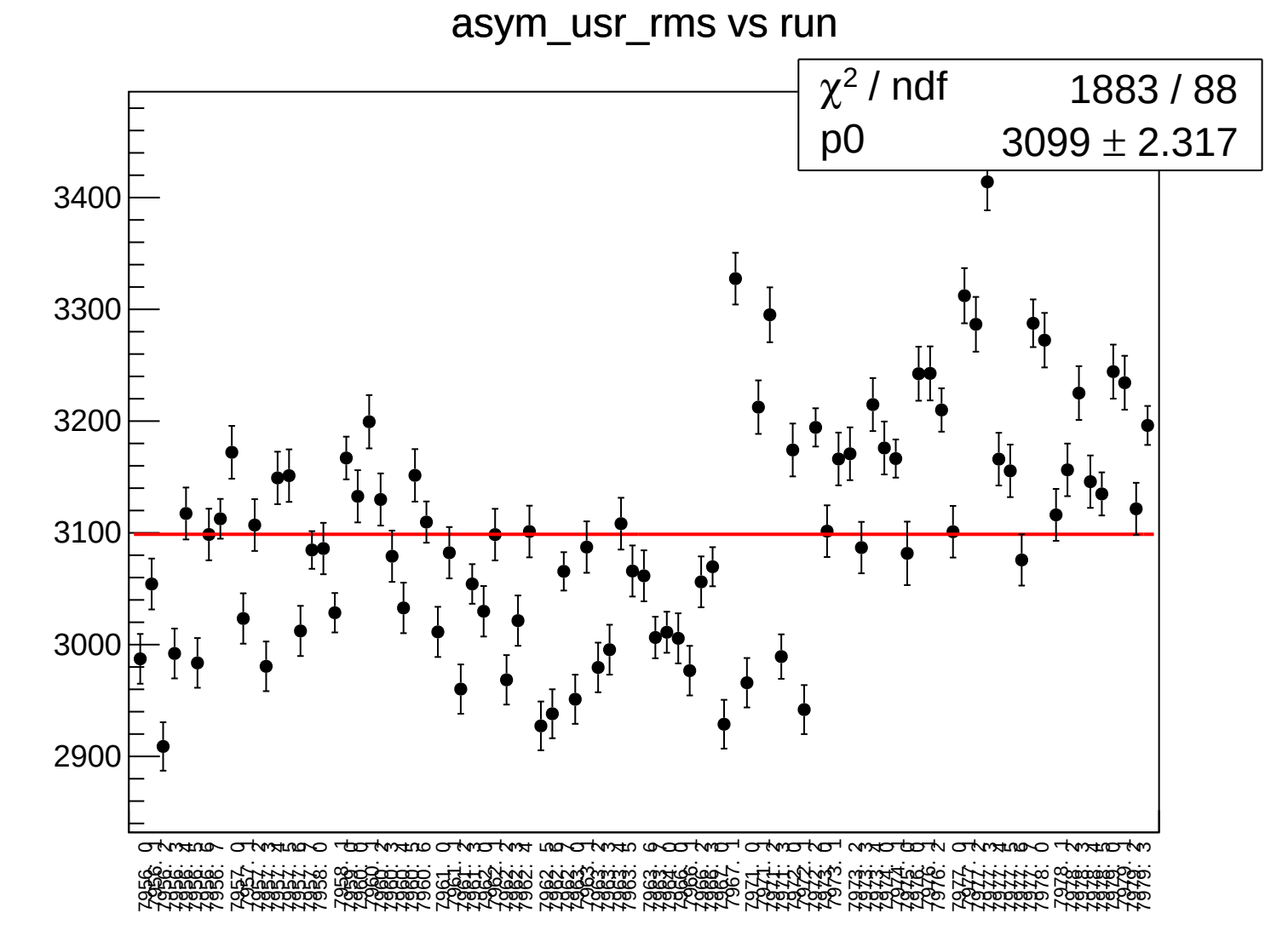

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 98.55 / 88
p0 104.9 ± 3098
100
50
0
−50
−100
−150
pull
Entries 89
Mean −485.8
Std Dev 0
2
1
0
−1
−2
−3

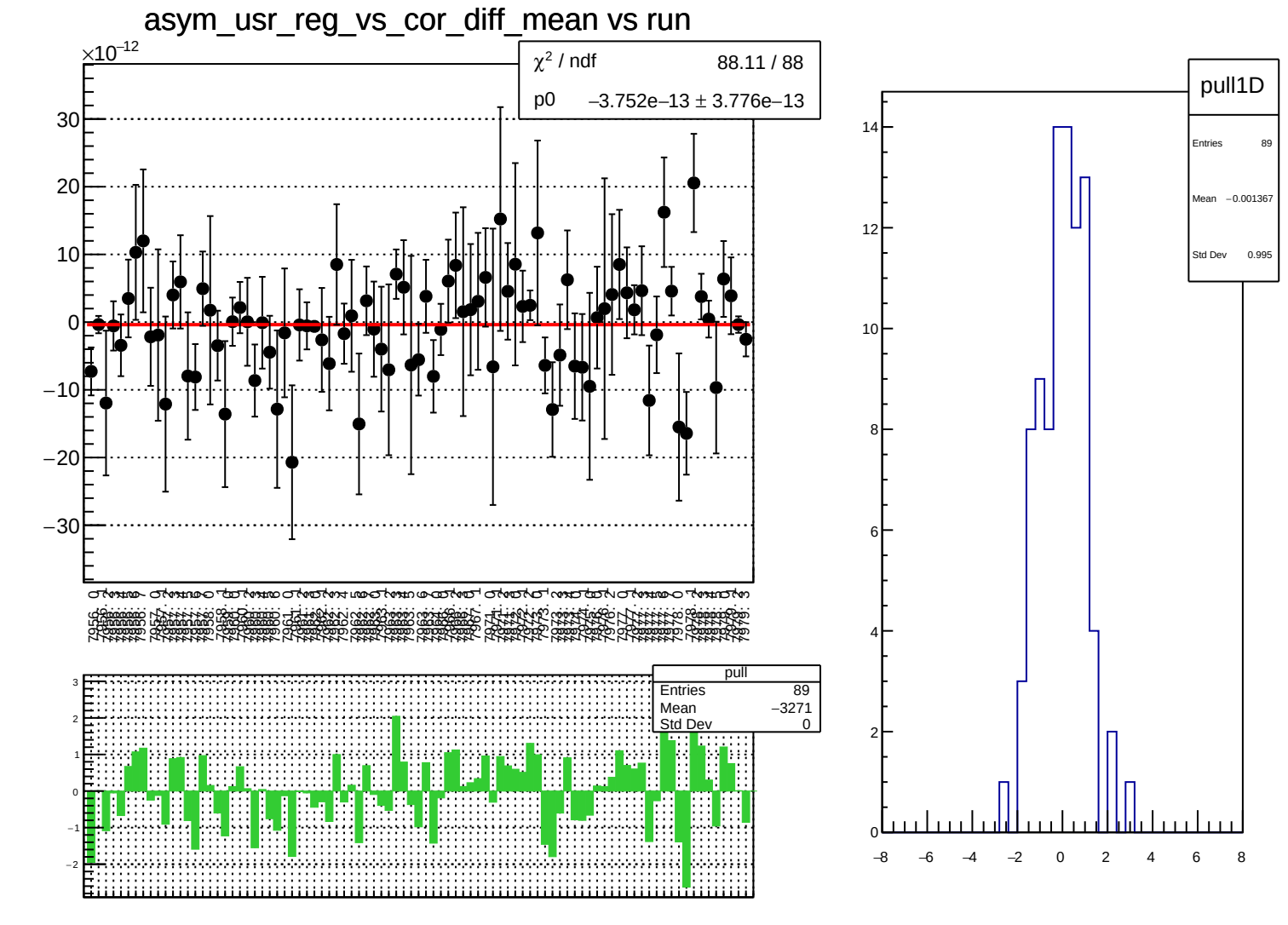

pull1D
Entries 89
Mean 0.005876
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

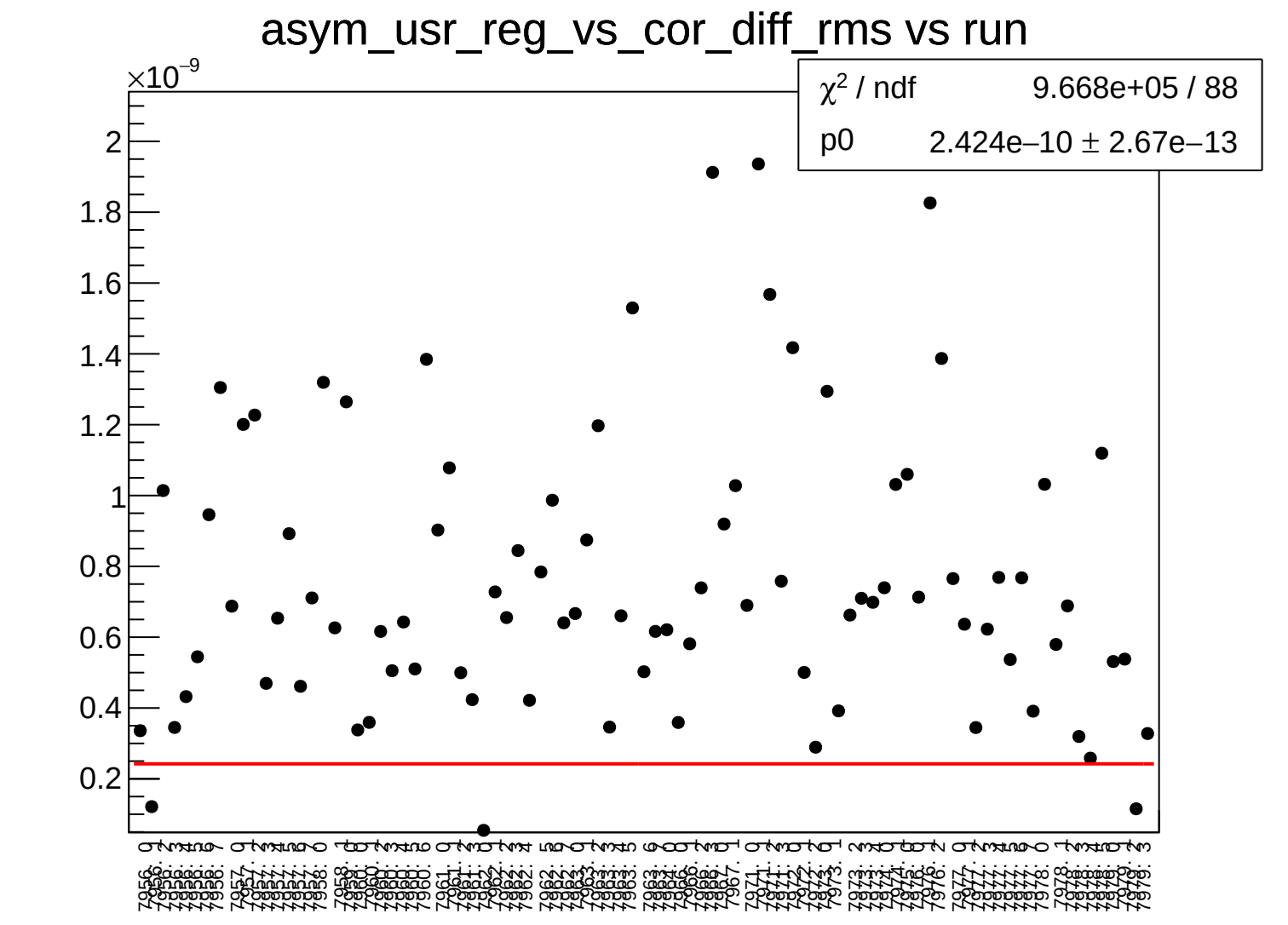

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2127 / 88
p0 2930 ± 2.191
3300
3200
3100
3000
2900
2800
2700

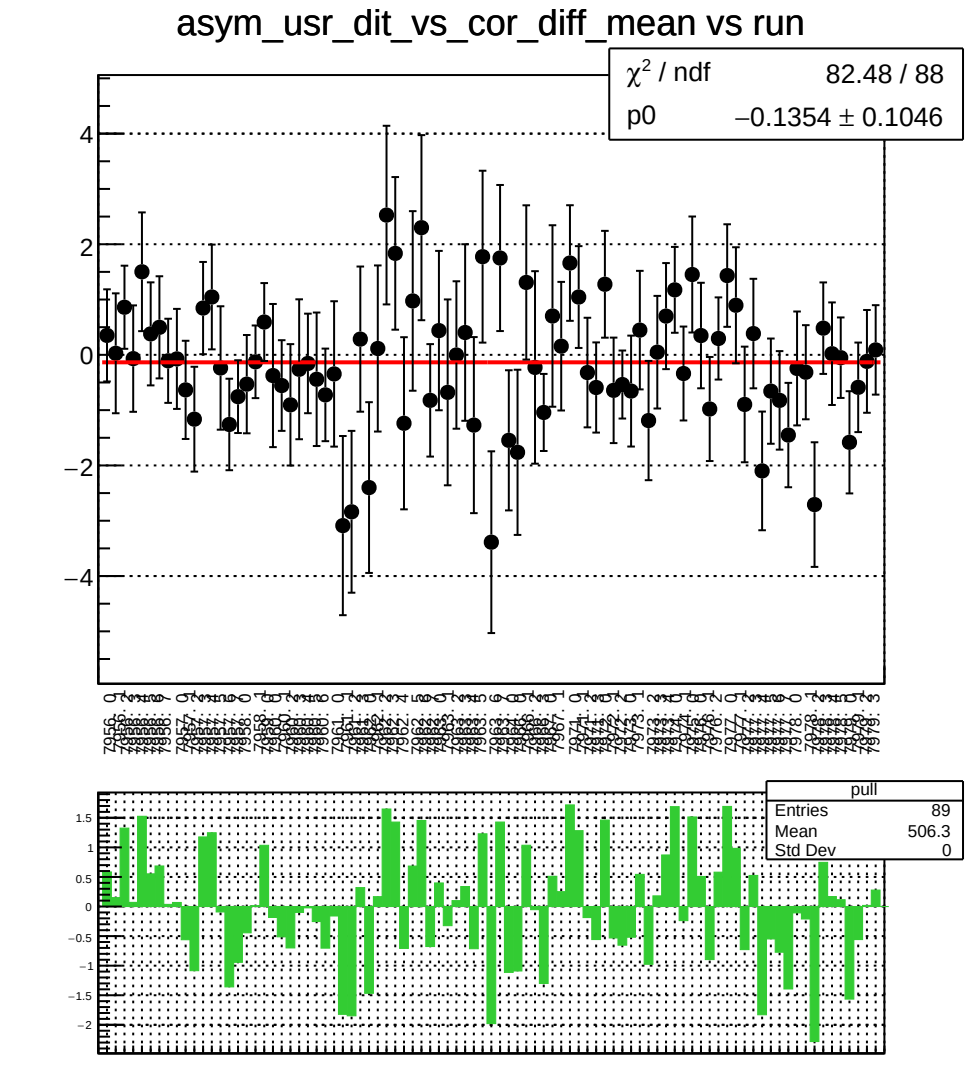

asym_usr_mean vs run
×10^3
χ² / ndf 81.37 / 88
p0 −2691 ± 3277
100
50
0
−50
−100
pull
Entries 89
Mean −114.1
Std Dev 0
3
2
1
0
−1
−2

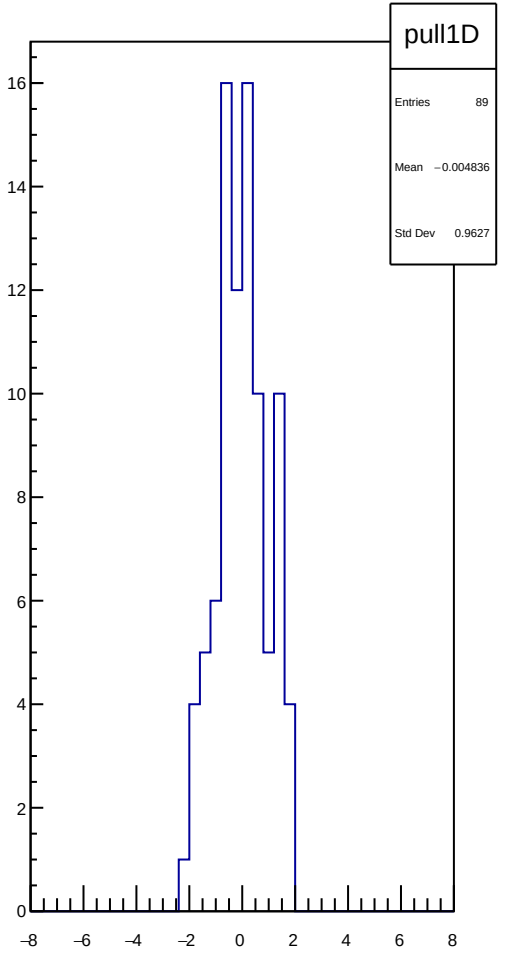

pull1D
Entries 89
Mean −0.006761
Std Dev 0.9562
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

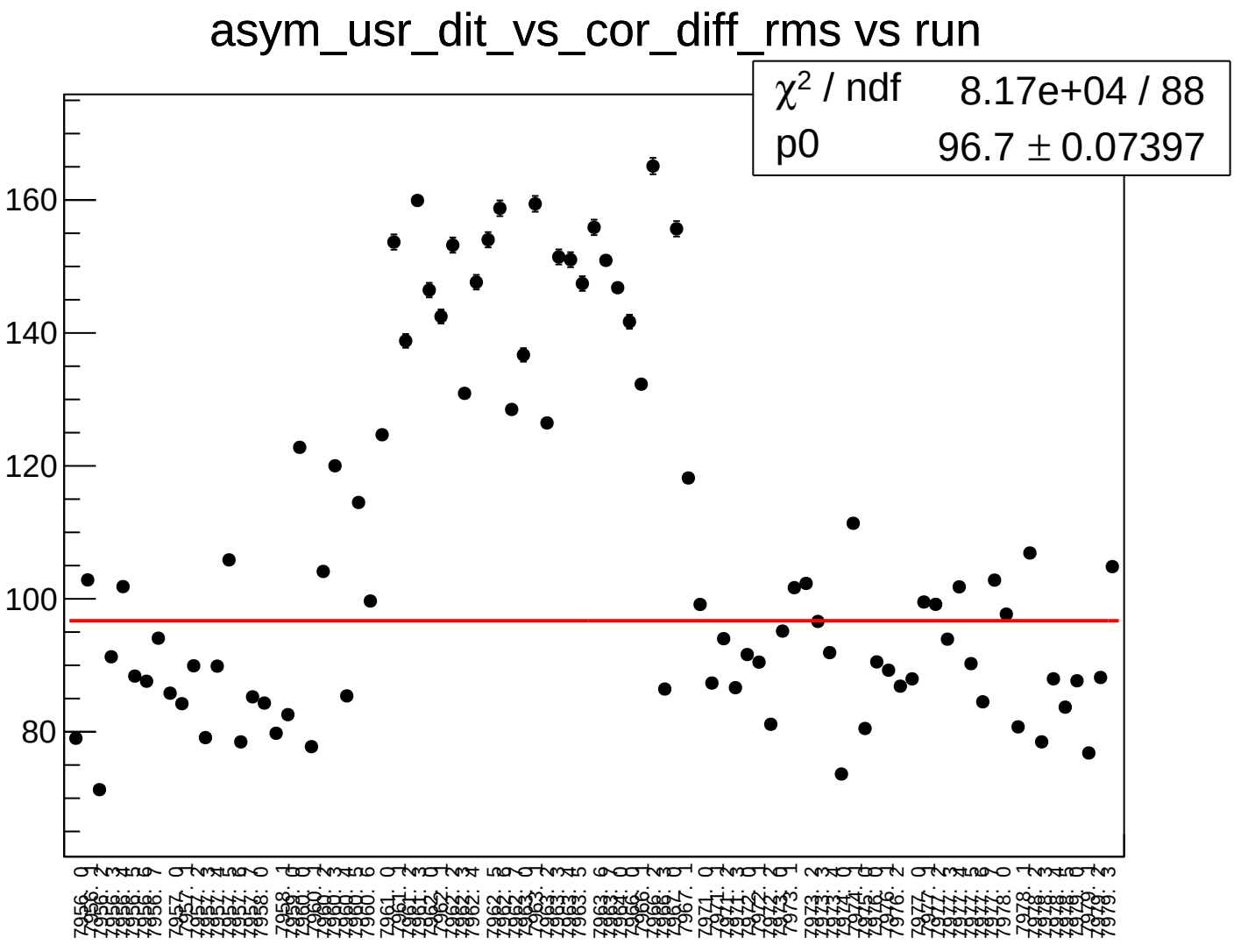

asym_usr_rms vs run
χ² / ndf 1883 / 88
p0 3099 ± 2.317
3400
3300
3200
3100
3000
2900

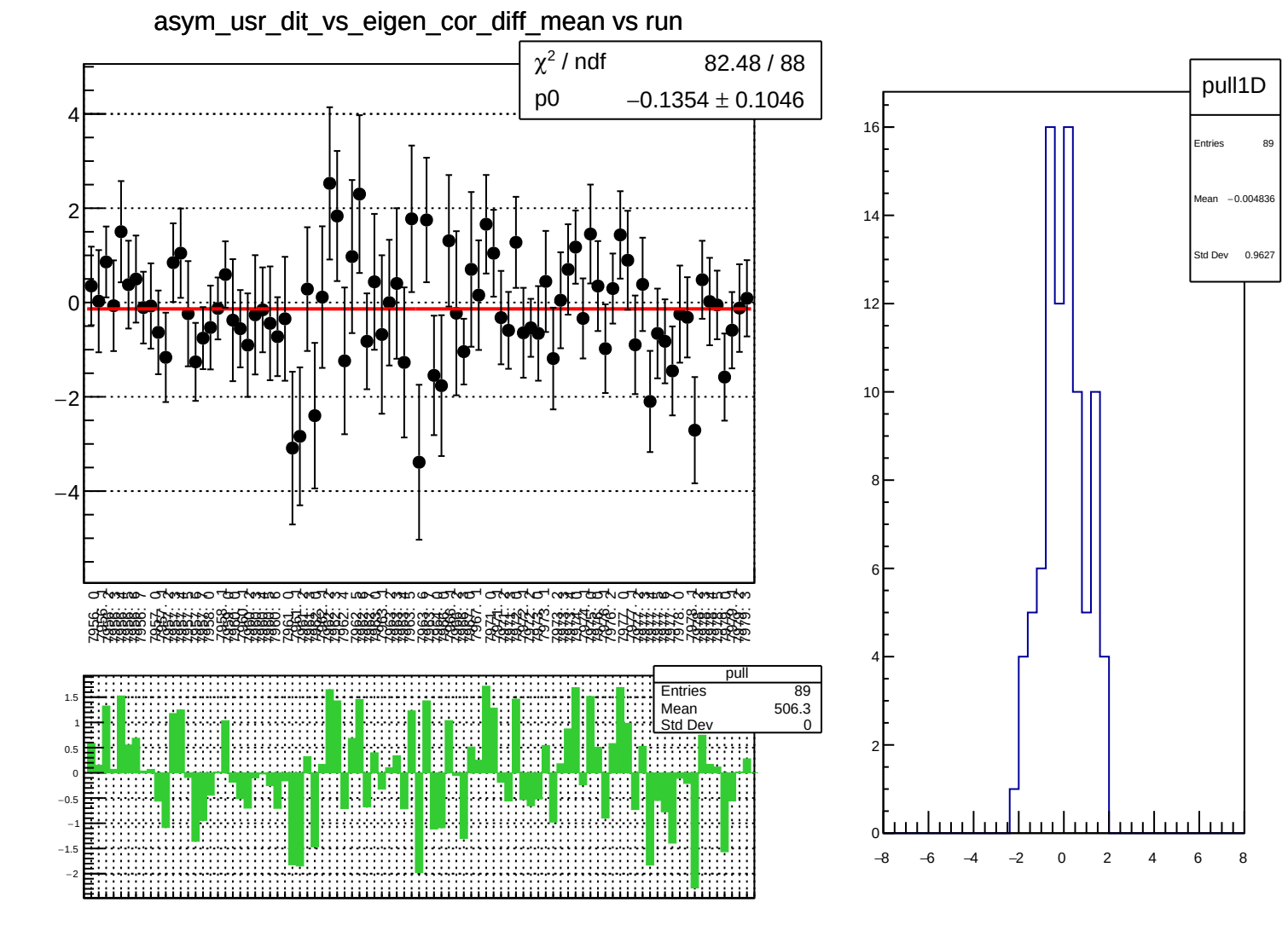

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.11 / 88
p0 −3.752e−13 ± 3.776e−13
30
20
10
0
−10
−20
−30
pull
Entries 89
Mean −3271
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.001367
Std Dev 0.995
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

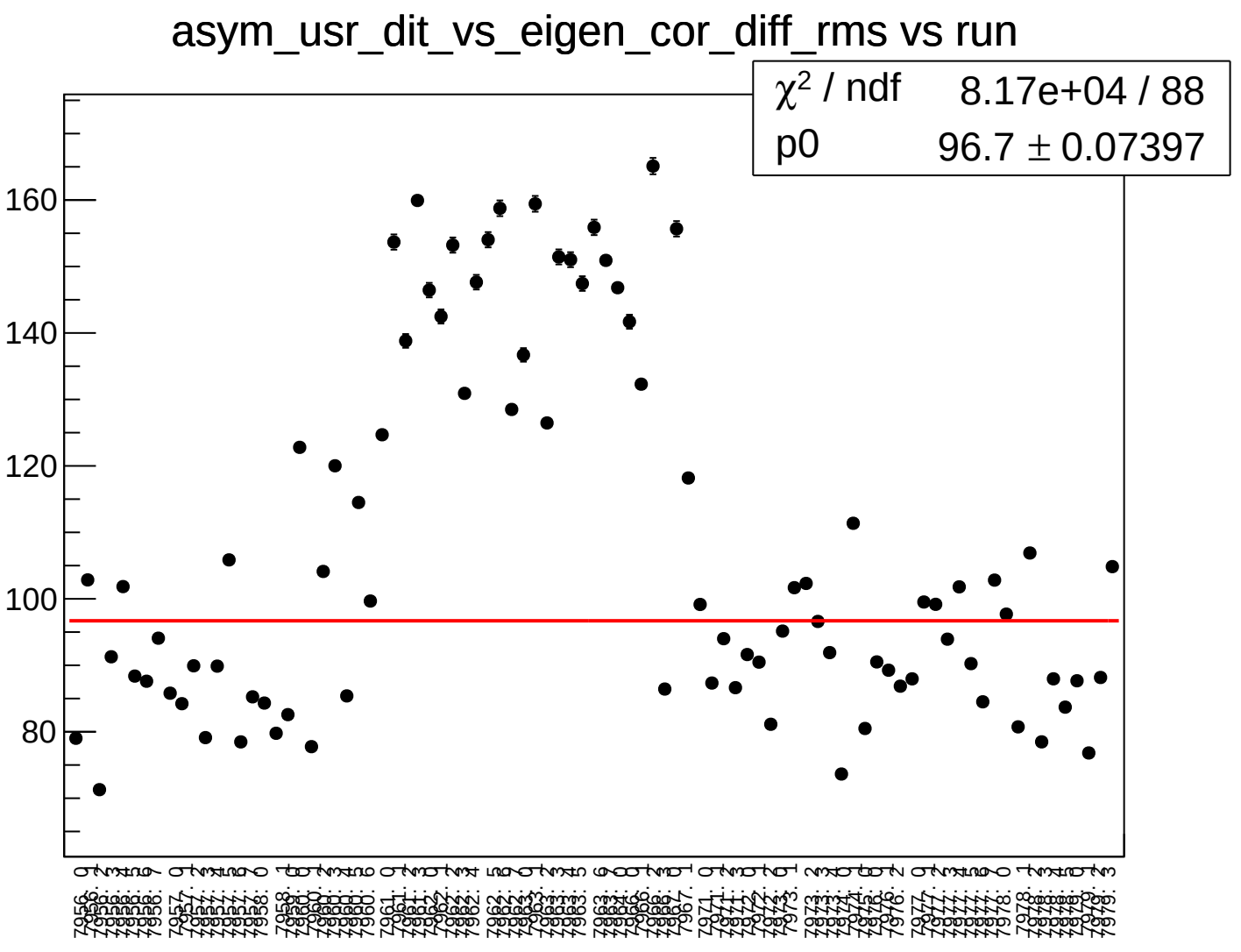

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.668e+05 / 88
p0 2.424e−10 ± 2.67e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

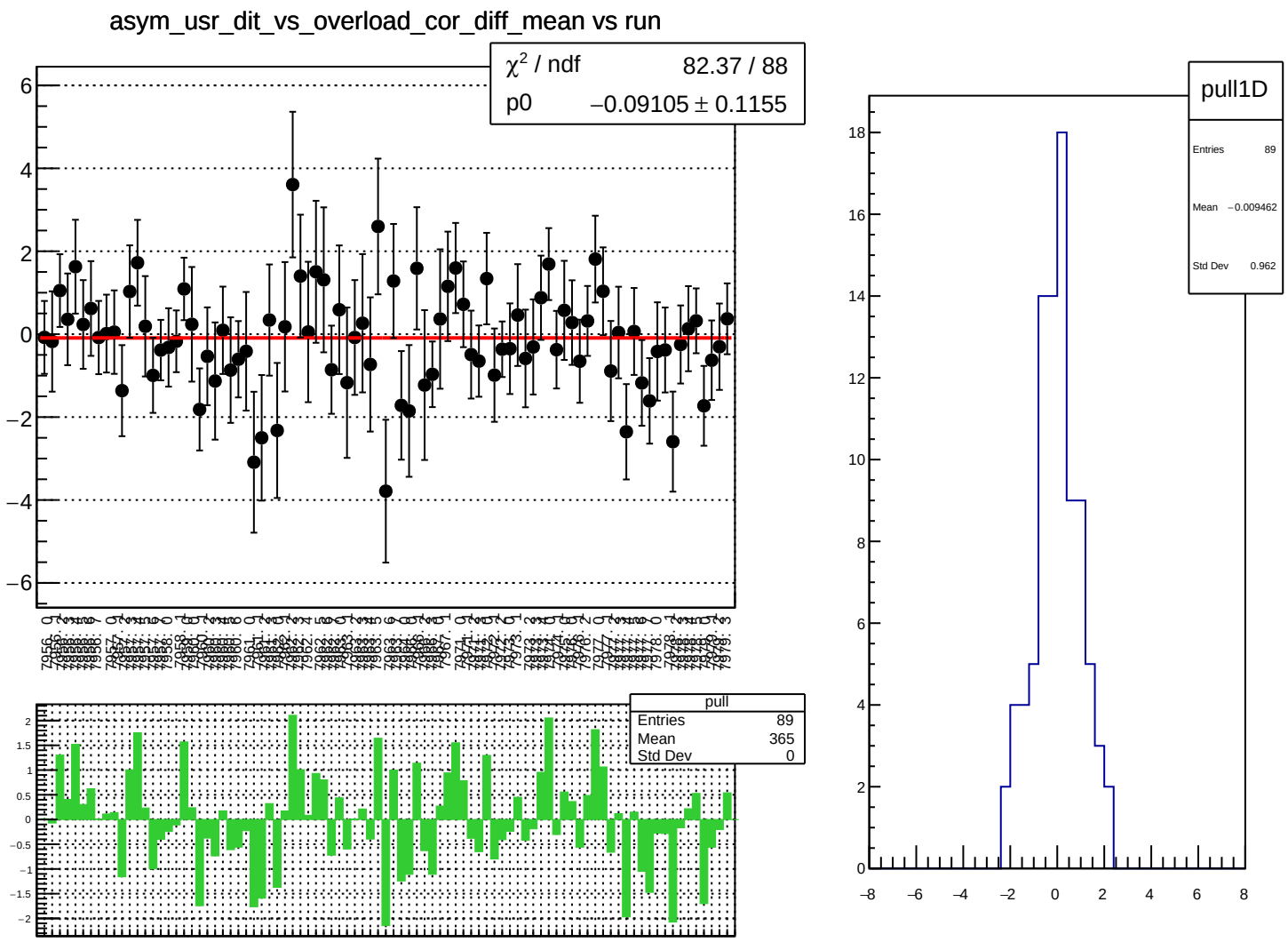

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 82.48 / 88
p0 −0.1354 ± 0.1046
pull
Entries 89
Mean 506.3
Std Dev 0

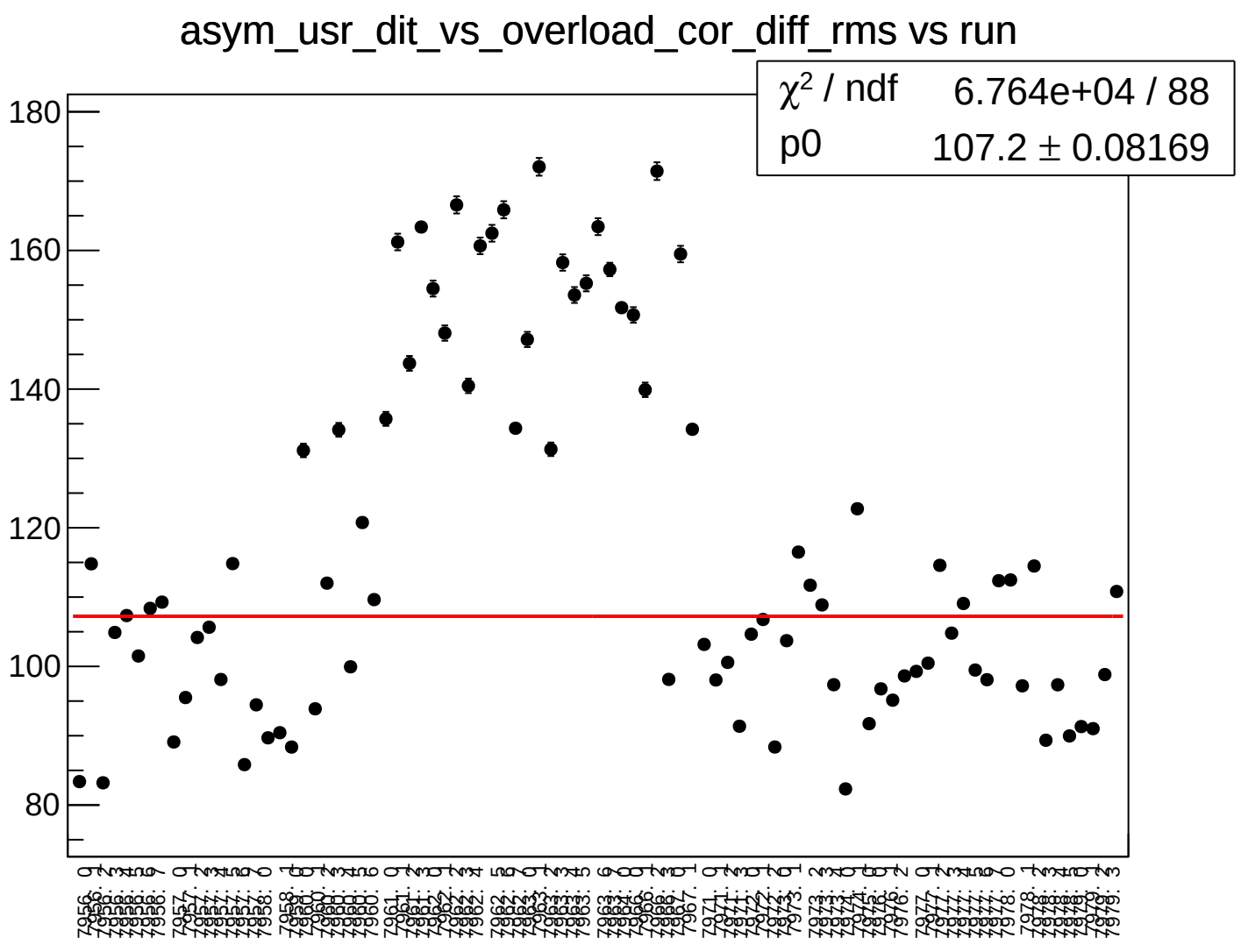

pull1D
Entries 89
Mean −0.004836
Std Dev 0.9627

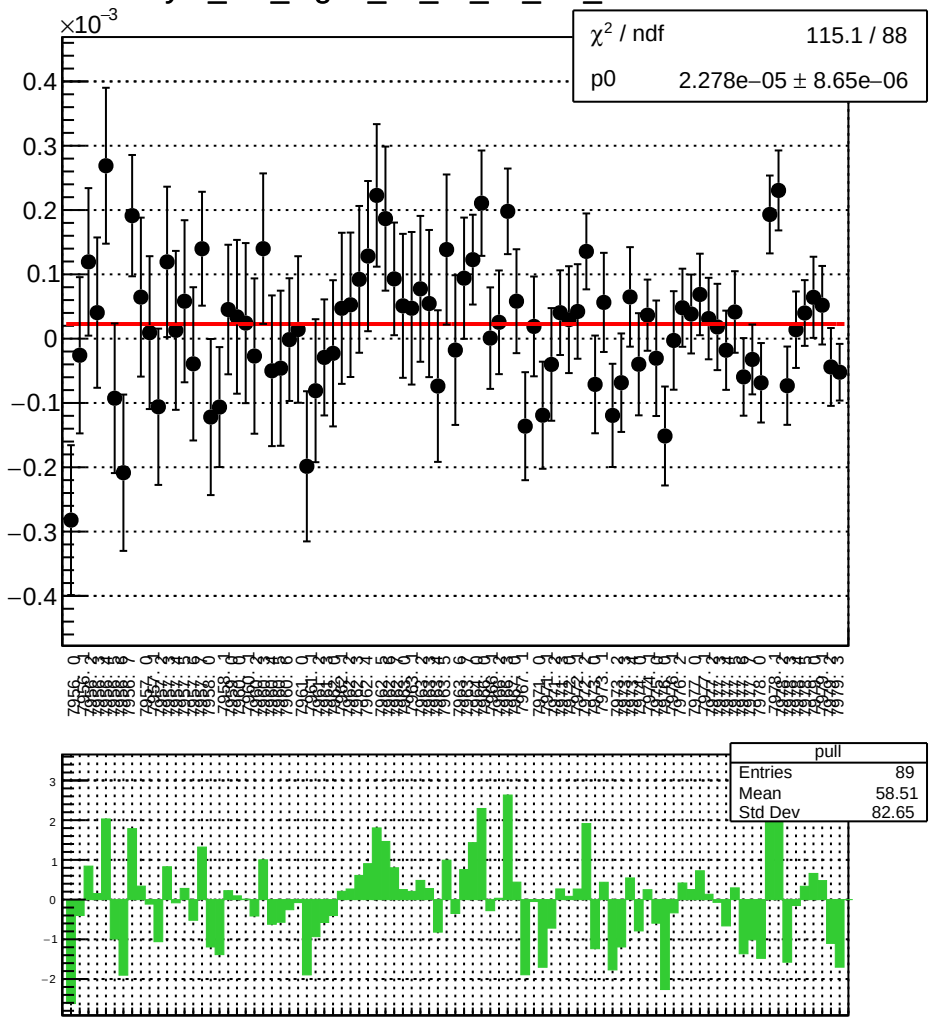

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 8.17e+04 / 88
p0 96.7 ± 0.07397
160
140
120
100
80

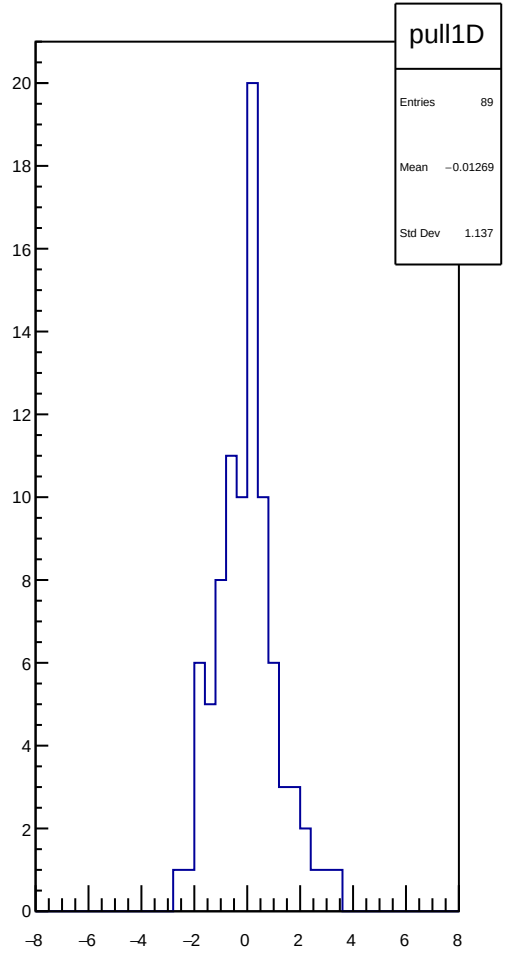

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.48 / 88
p0 −0.1354 ± 0.1046
pull
Entries 89
Mean 506.3
Std Dev 0
pull1D
Entries 89
Mean −0.004836
Std Dev 0.9627

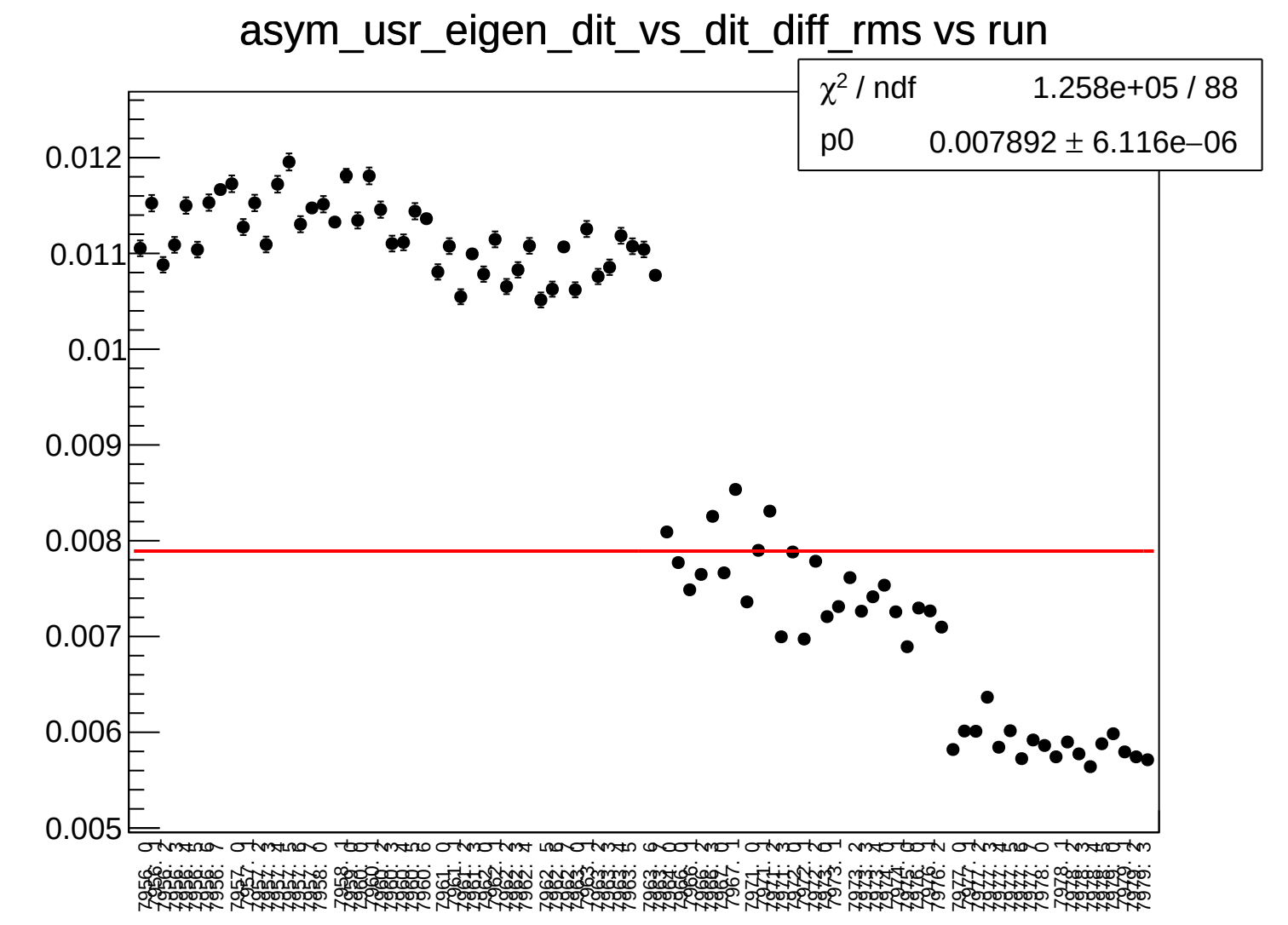

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.17e+04 / 88
p0 96.7 ± 0.07397
160
140
120
100
80

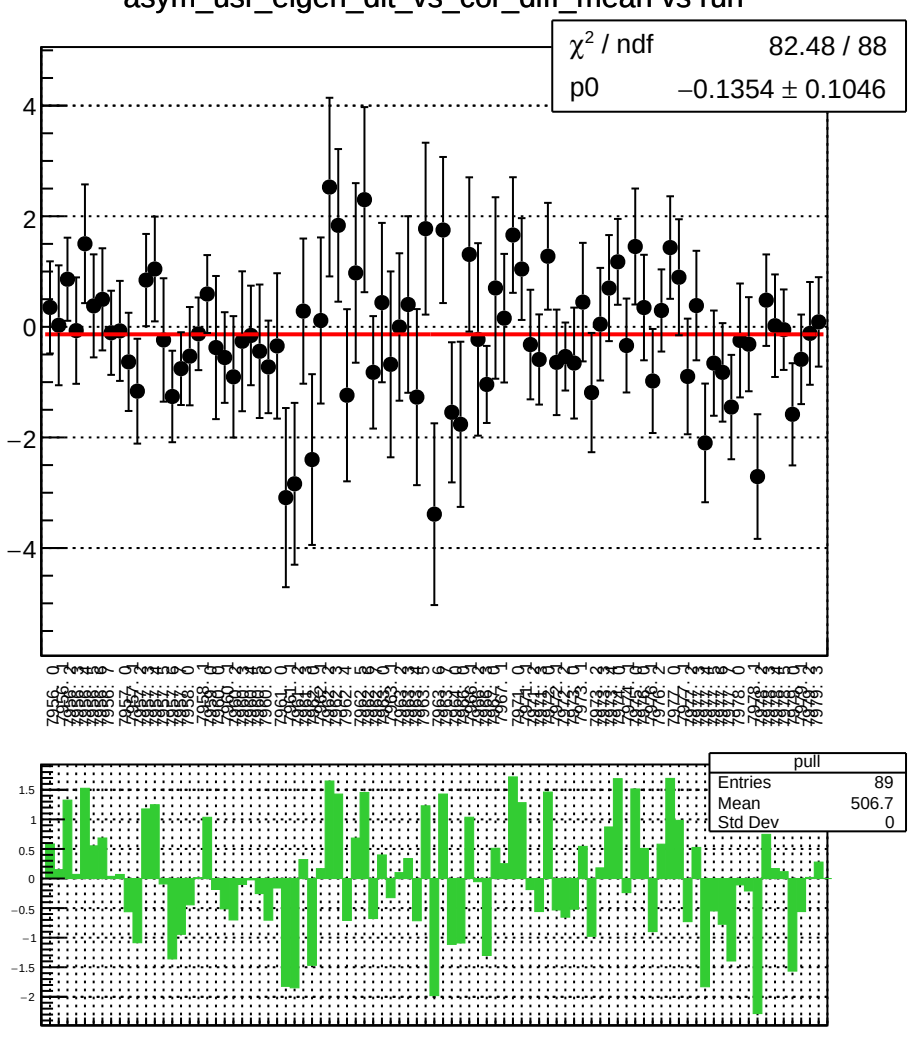

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 82.37 / 88
p0 −0.09105 ± 0.1155
pull
Entries 89
Mean 365
Std Dev 0
pull1D
Entries 89
Mean −0.009462
Std Dev 0.962

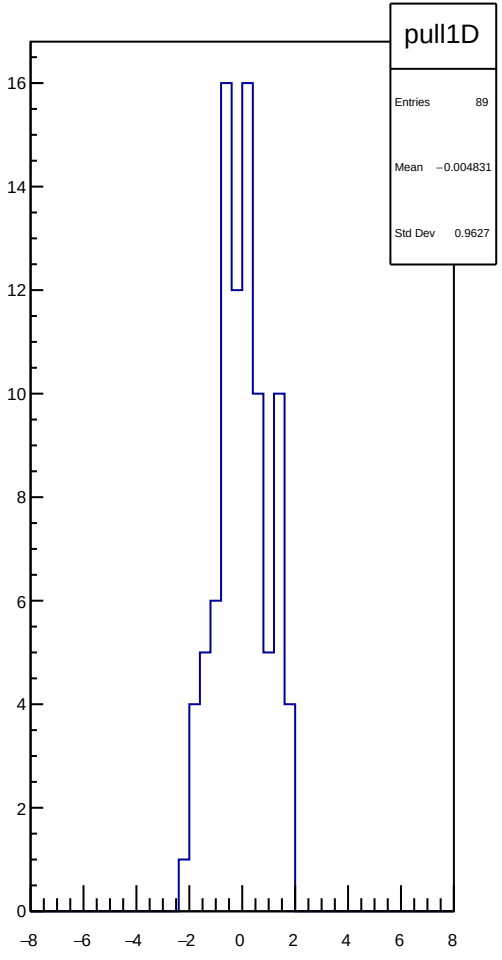

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.764e+04 / 88
p0 107.2 ± 0.08169
180
160
140
120
100
80

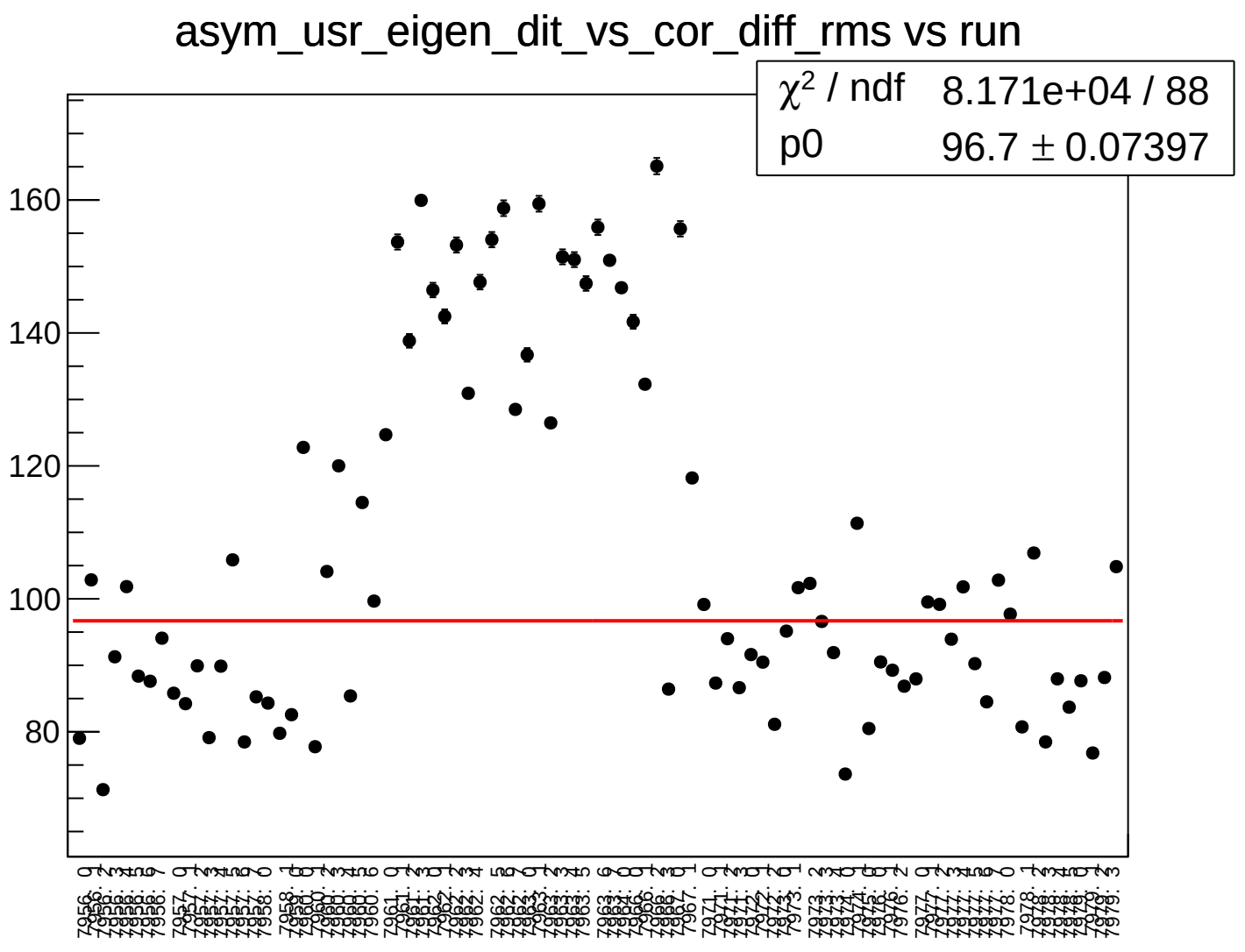

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.1 / 88
p0 2.278e−05 ± 8.65e−06
pull
Entries 89
Mean 58.51
Std Dev 82.65

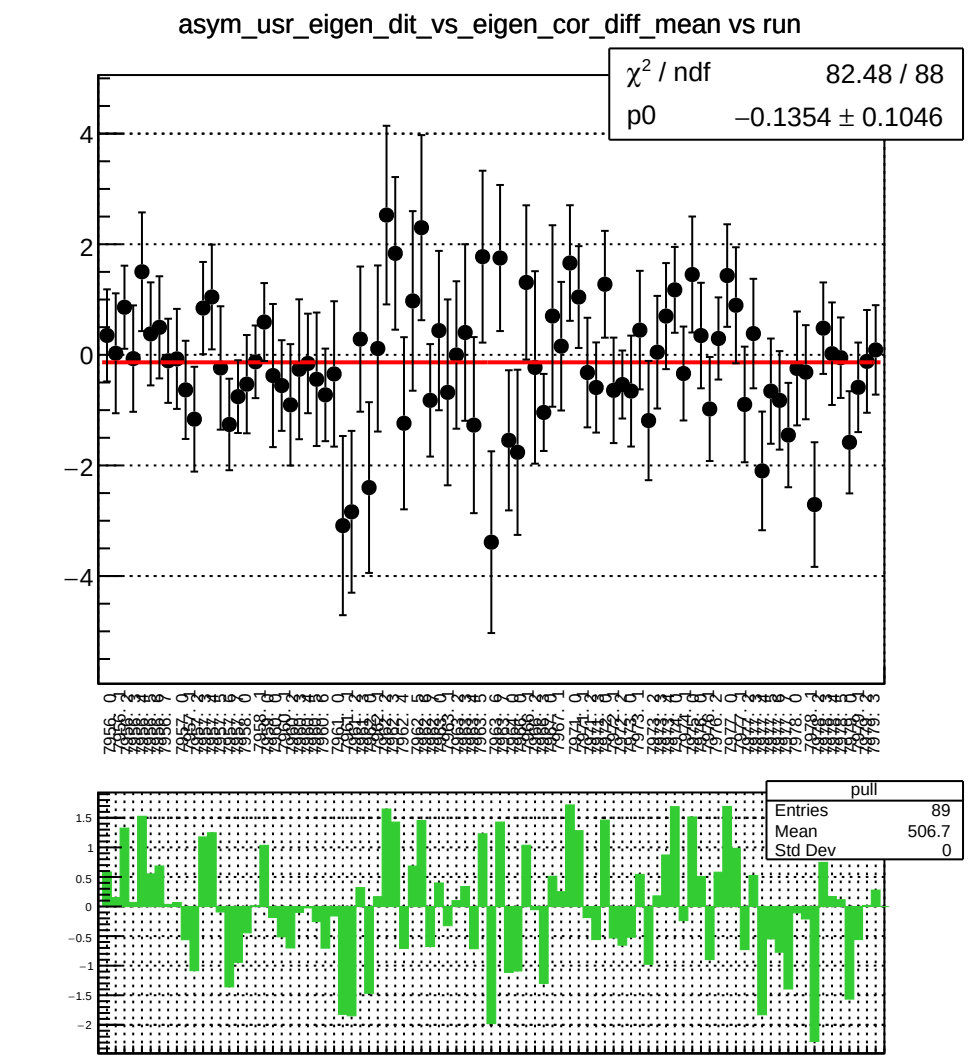

pull1D
Entries 89
Mean −0.01269
Std Dev 1.137

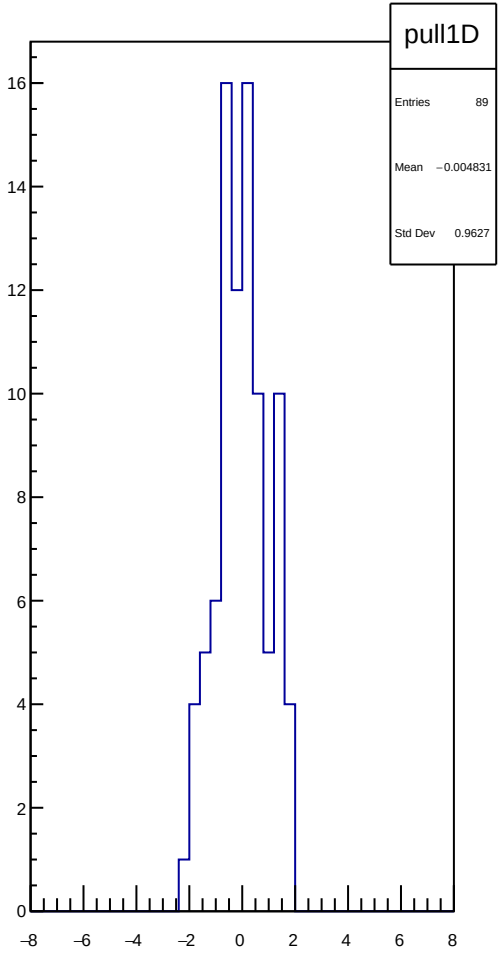

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.258e+05 / 88
p0 0.007892 ± 6.116e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

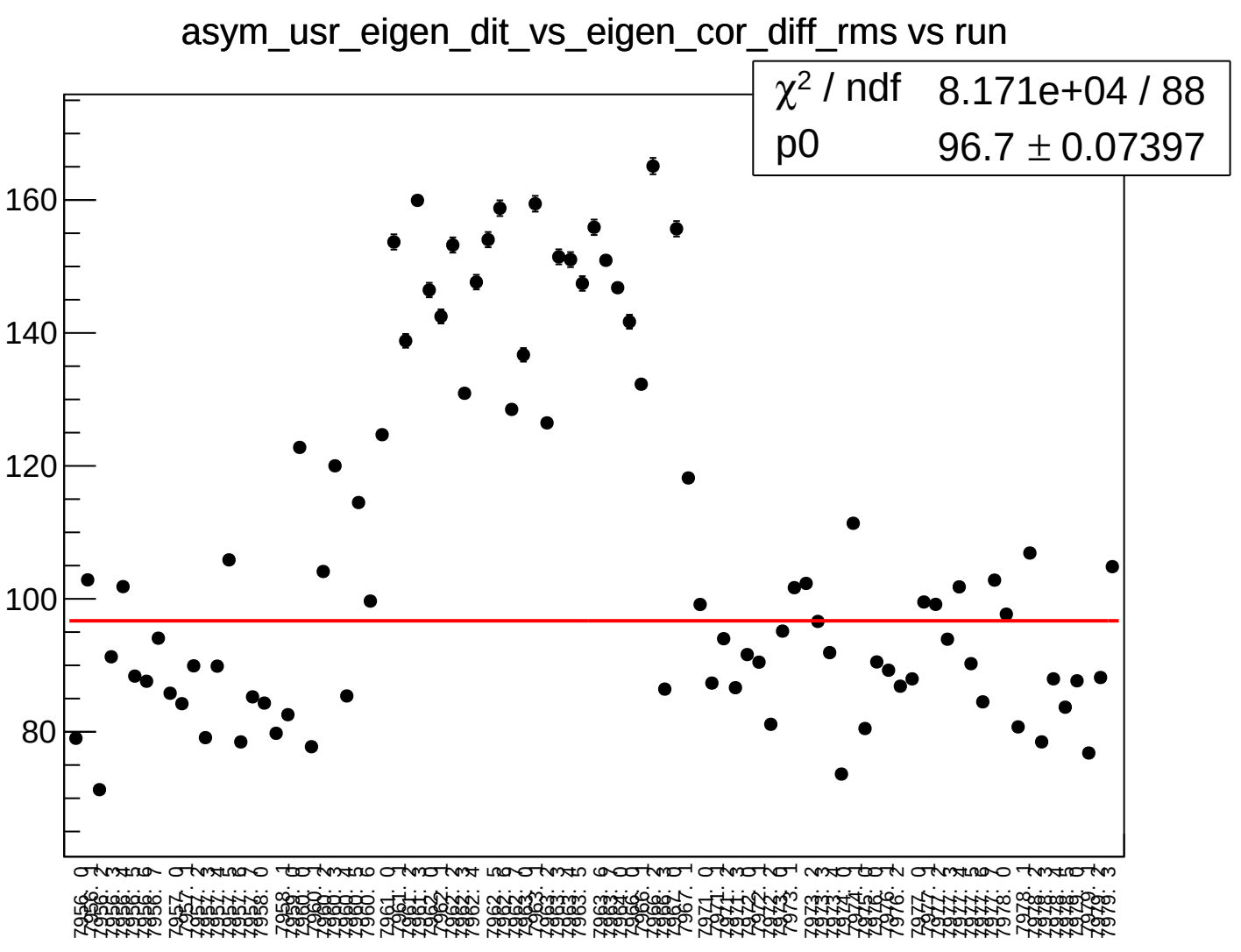

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.48 / 88
p0 −0.1354 ± 0.1046
pull
Entries 89
Mean 506.7
Std Dev 0

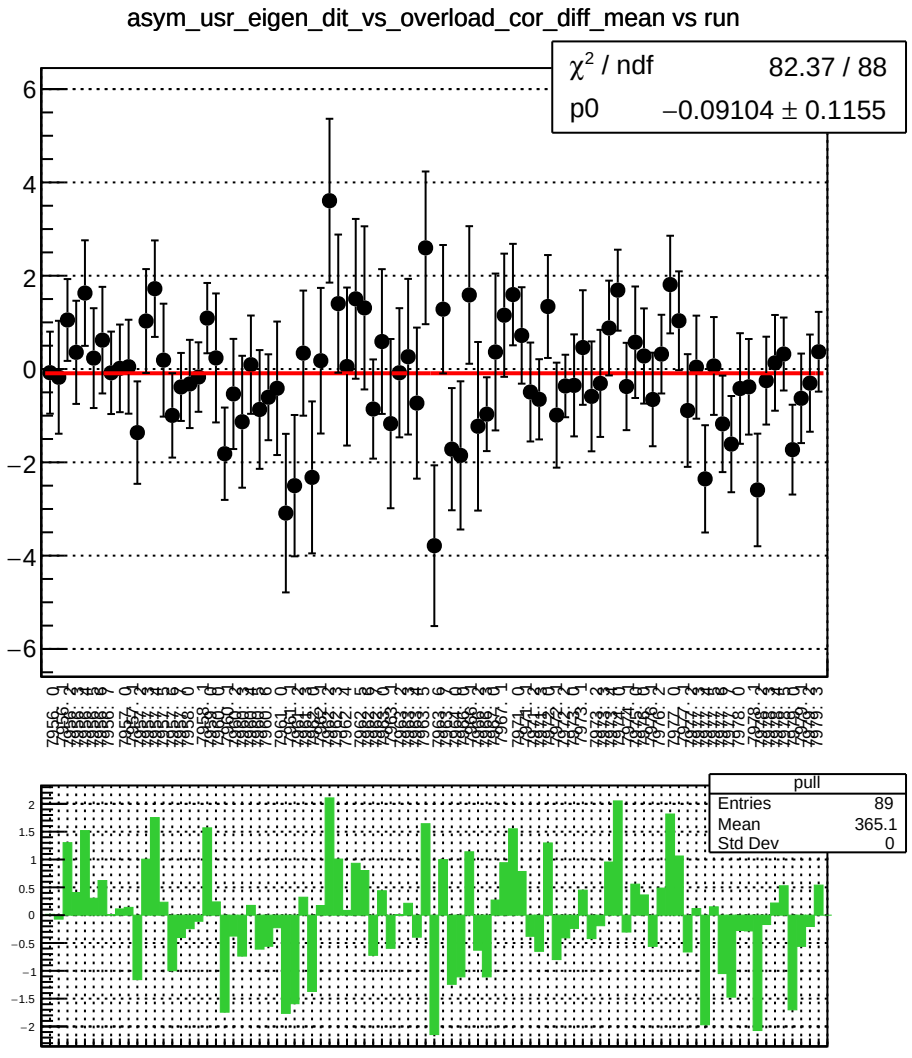

pull1D
Entries 89
Mean −0.004831
Std Dev 0.9627

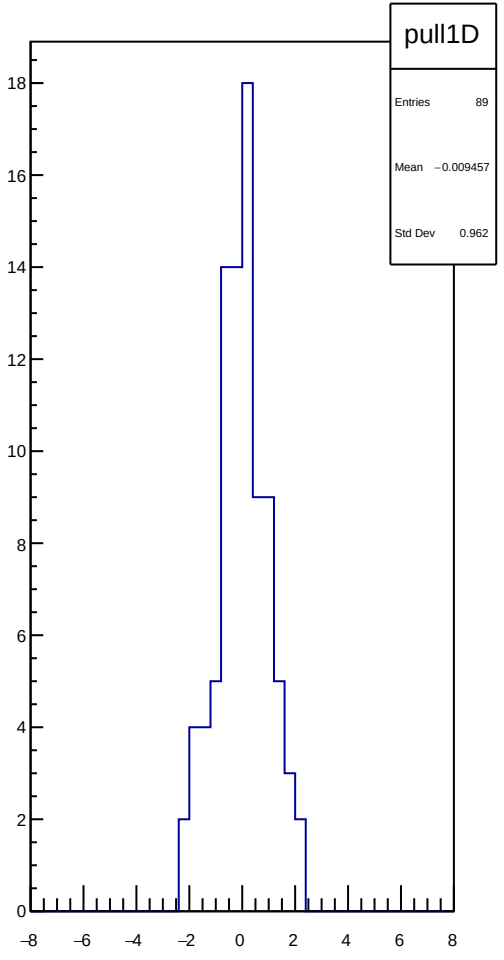

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.171e+04 / 88
p0 96.7 ± 0.07397
160
140
120
100
80

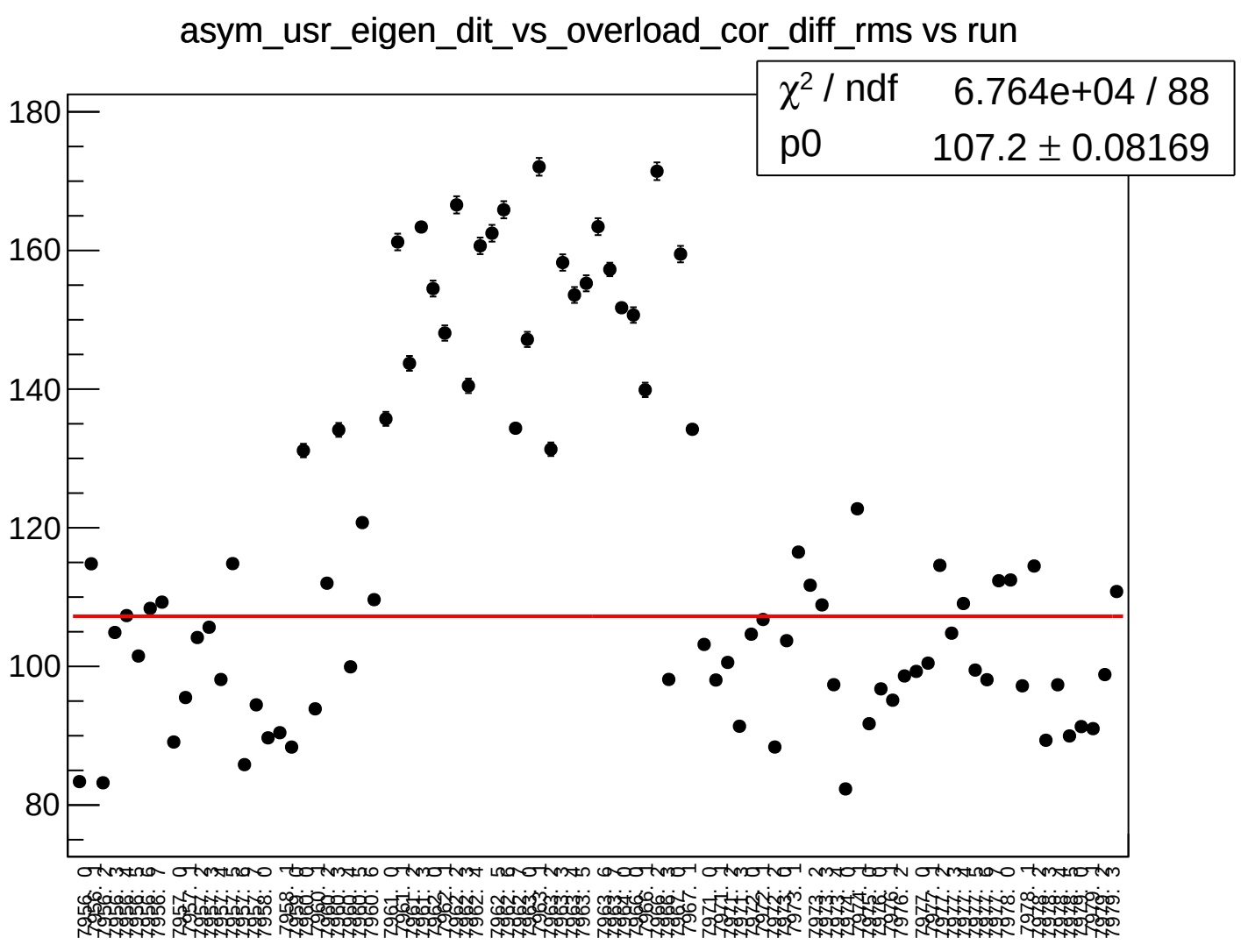

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.48 / 88
p0 −0.1354 ± 0.1046
pull
Entries 89
Mean 506.7
Std Dev 0

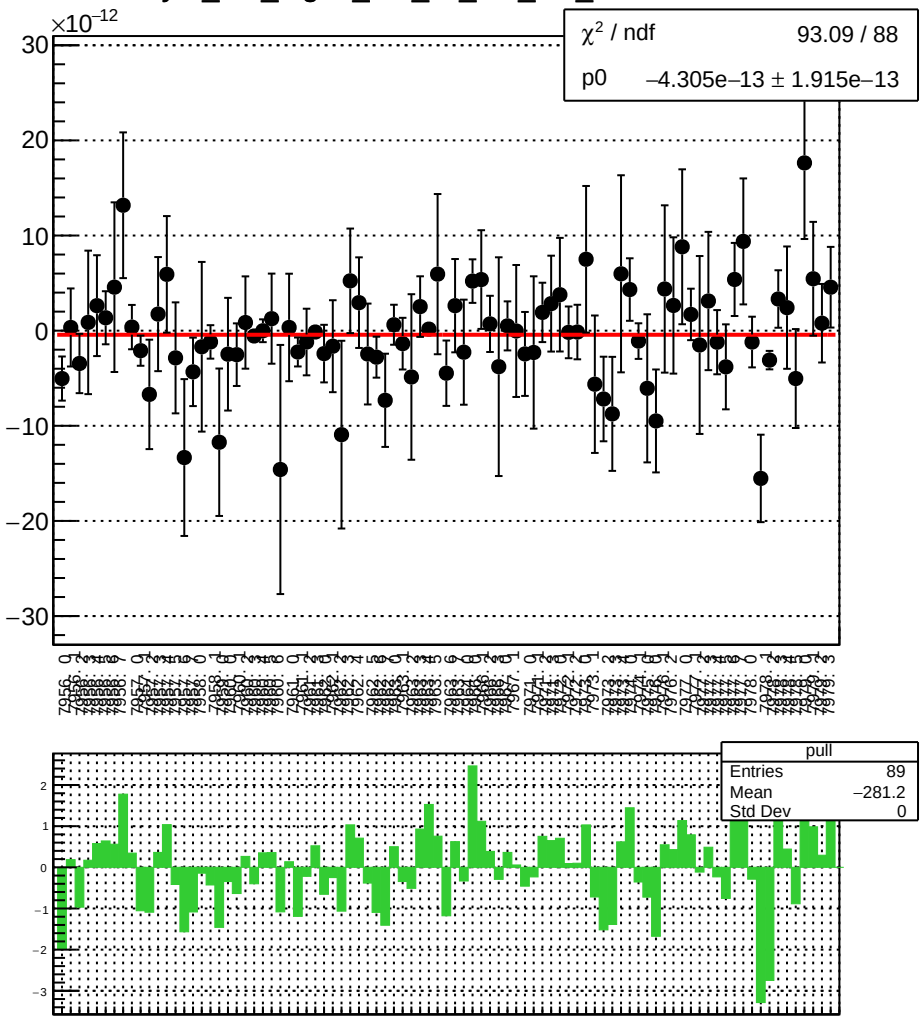

pull1D
Entries 89
Mean −0.004831
Std Dev 0.9627

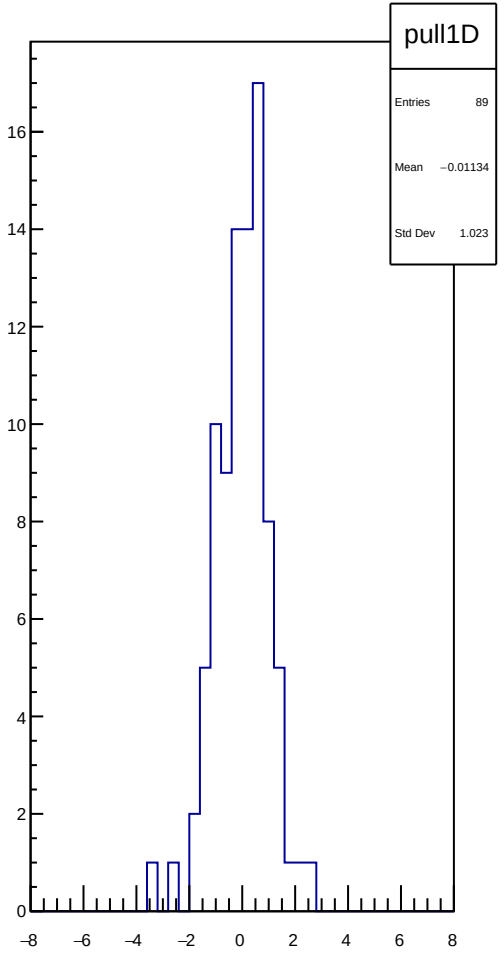

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.171e+04 / 88
p0 96.7 ± 0.07397
160
140
120
100
80

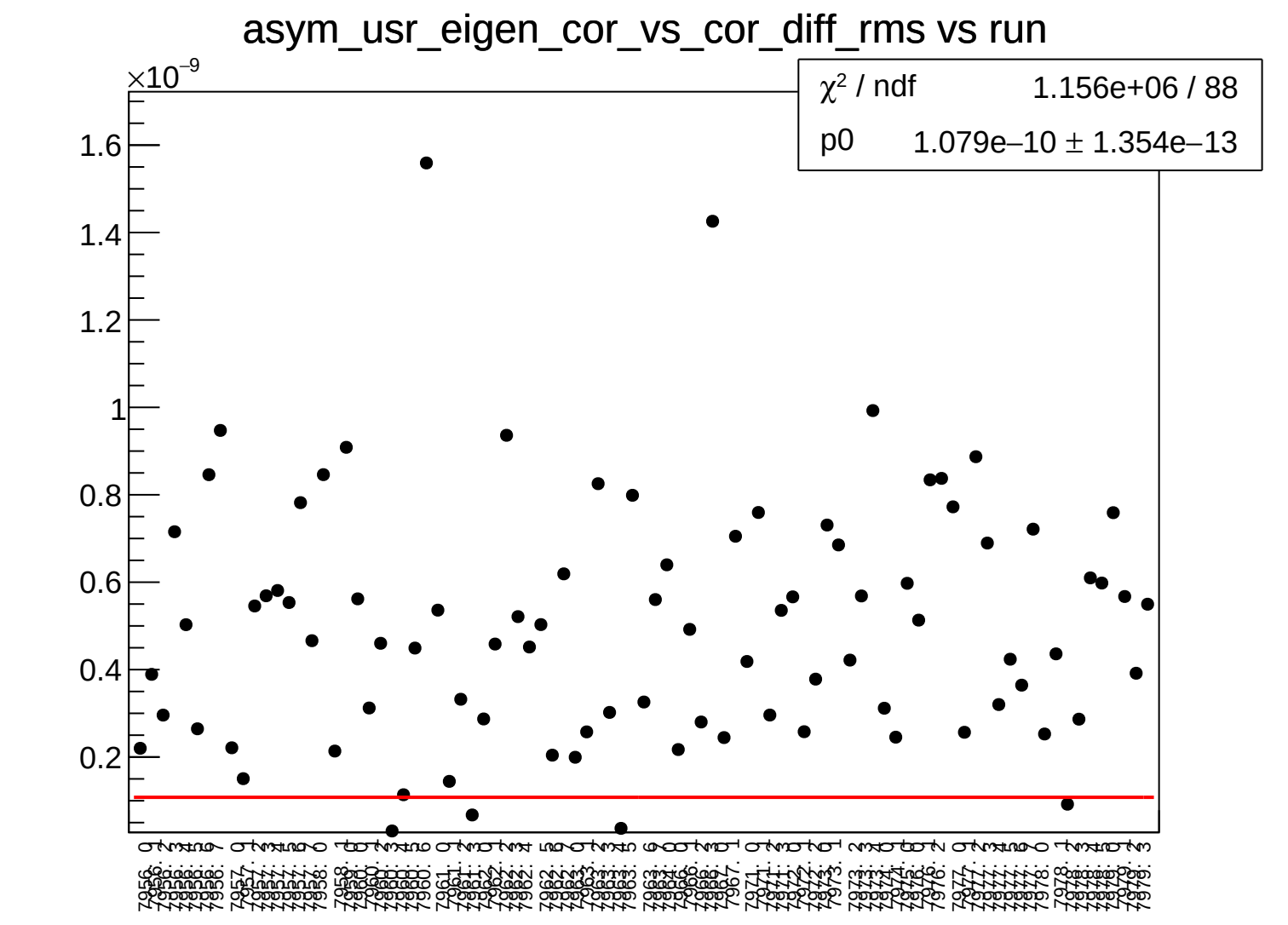

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 82.37 / 88
p0 −0.09104 ± 0.1155
pull
Entries 89
Mean 365.1
Std Dev 0

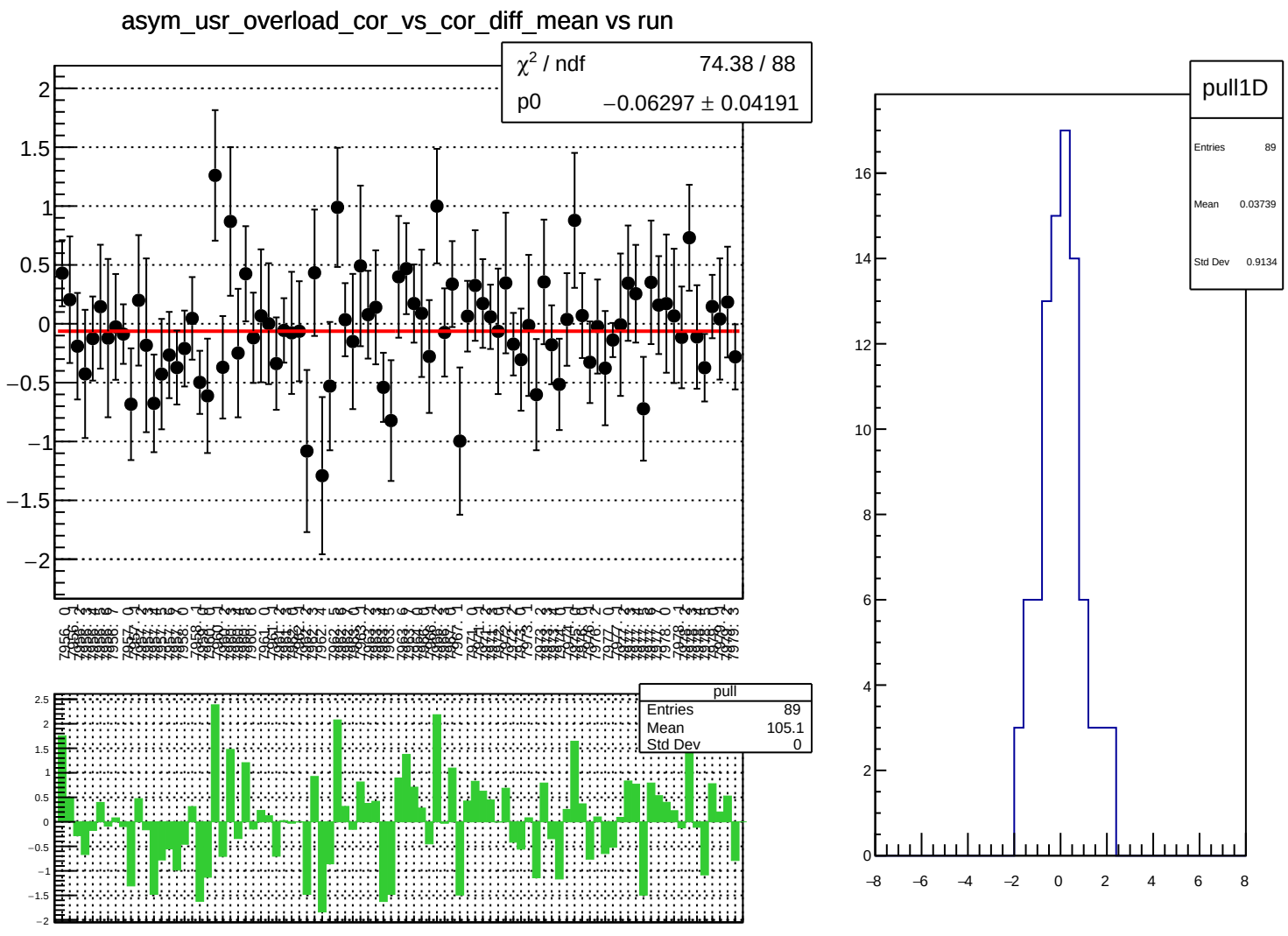

pull1D
Entries 89
Mean −0.009457
Std Dev 0.962

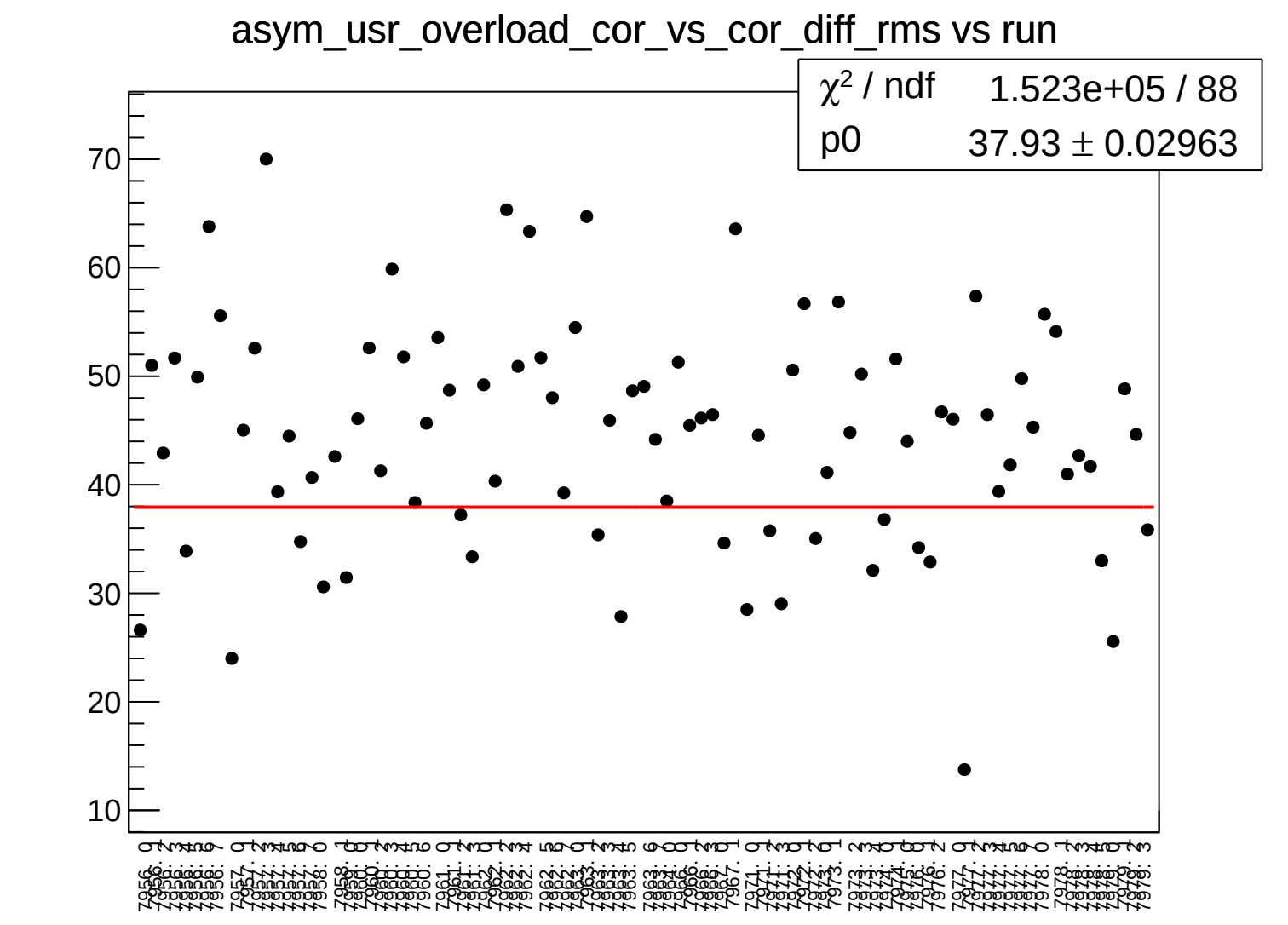

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.764e+04 / 88
p0 107.2 ± 0.08169
180
160
140
120
100
80

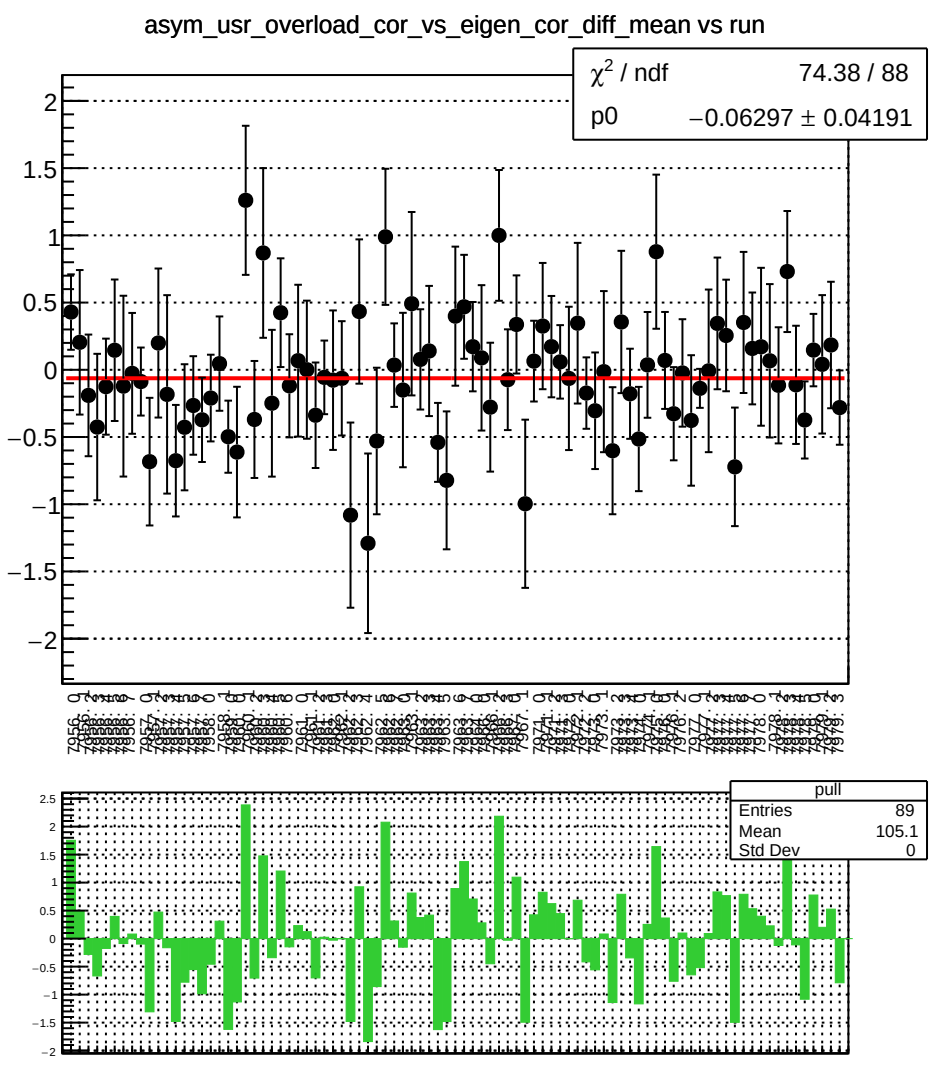

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.09 / 88
p0 −4.305e−13 ± 1.915e−13
pull
Entries 89
Mean −281.2
Std Dev 0

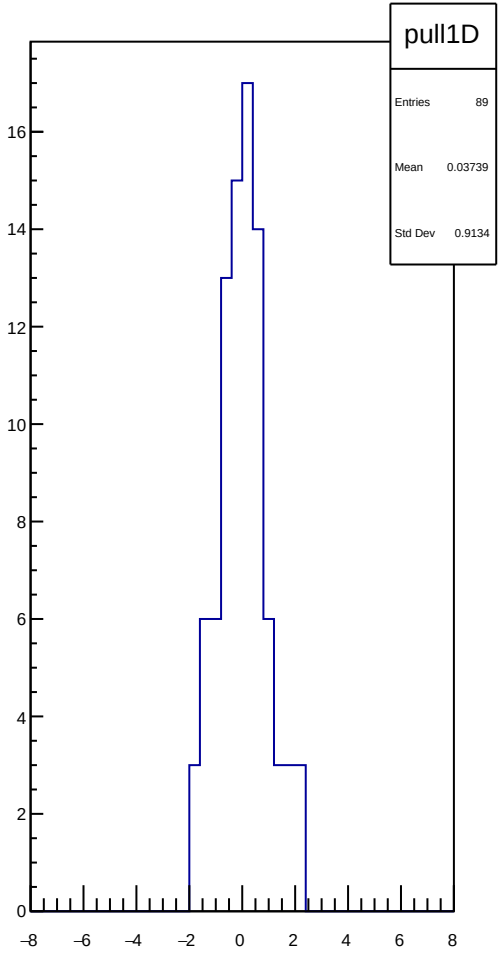

pull1D
Entries 89
Mean −0.01134
Std Dev 1.023

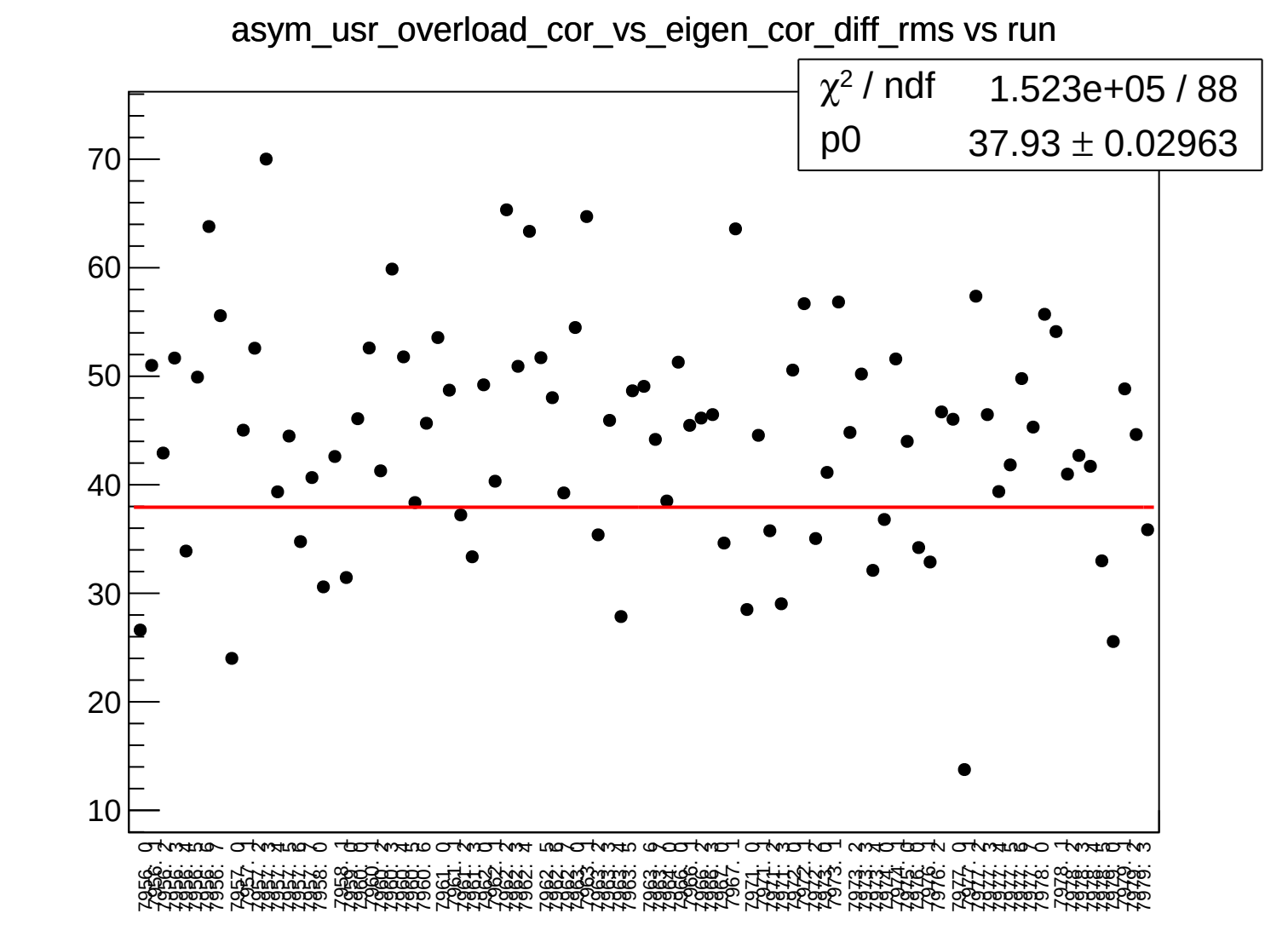

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.156e+06 / 88
p0 1.079e−10 ± 1.354e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

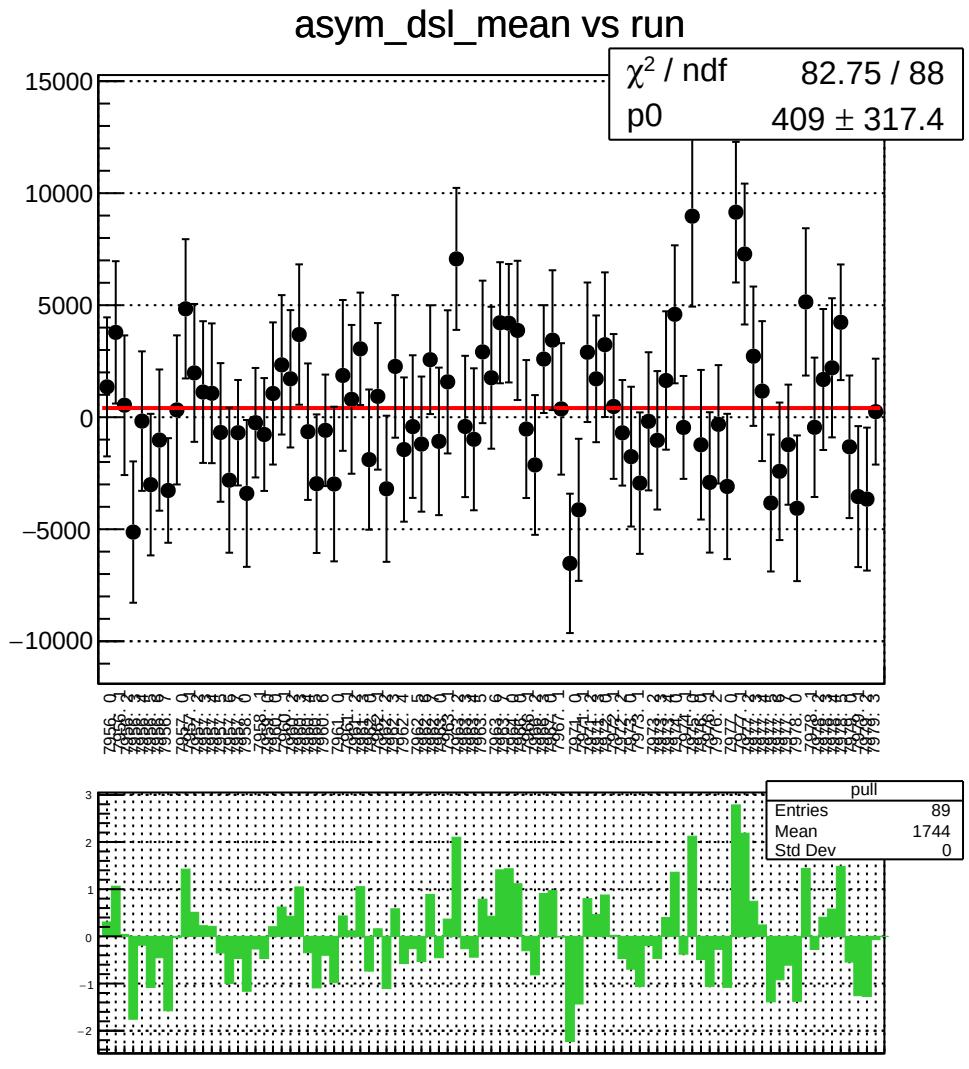

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 74.38 / 88
p0 −0.06297 ± 0.04191
pull
Entries 89
Mean 105.1
Std Dev 0
pull1D
Entries 89
Mean 0.03739
Std Dev 0.9134

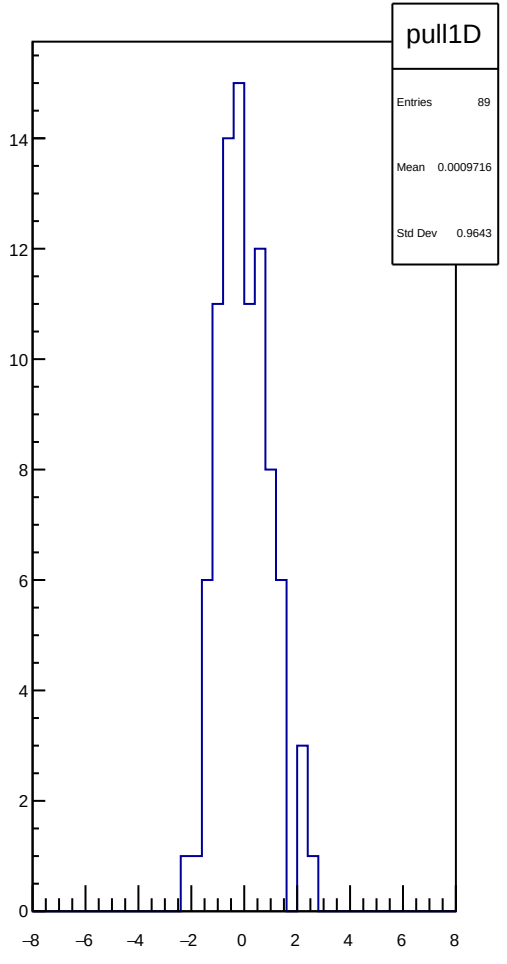

asym_usr_overload_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.523e+05 / 88
p0 37.93 ± 0.02963
70
60
50
40
30
20
10

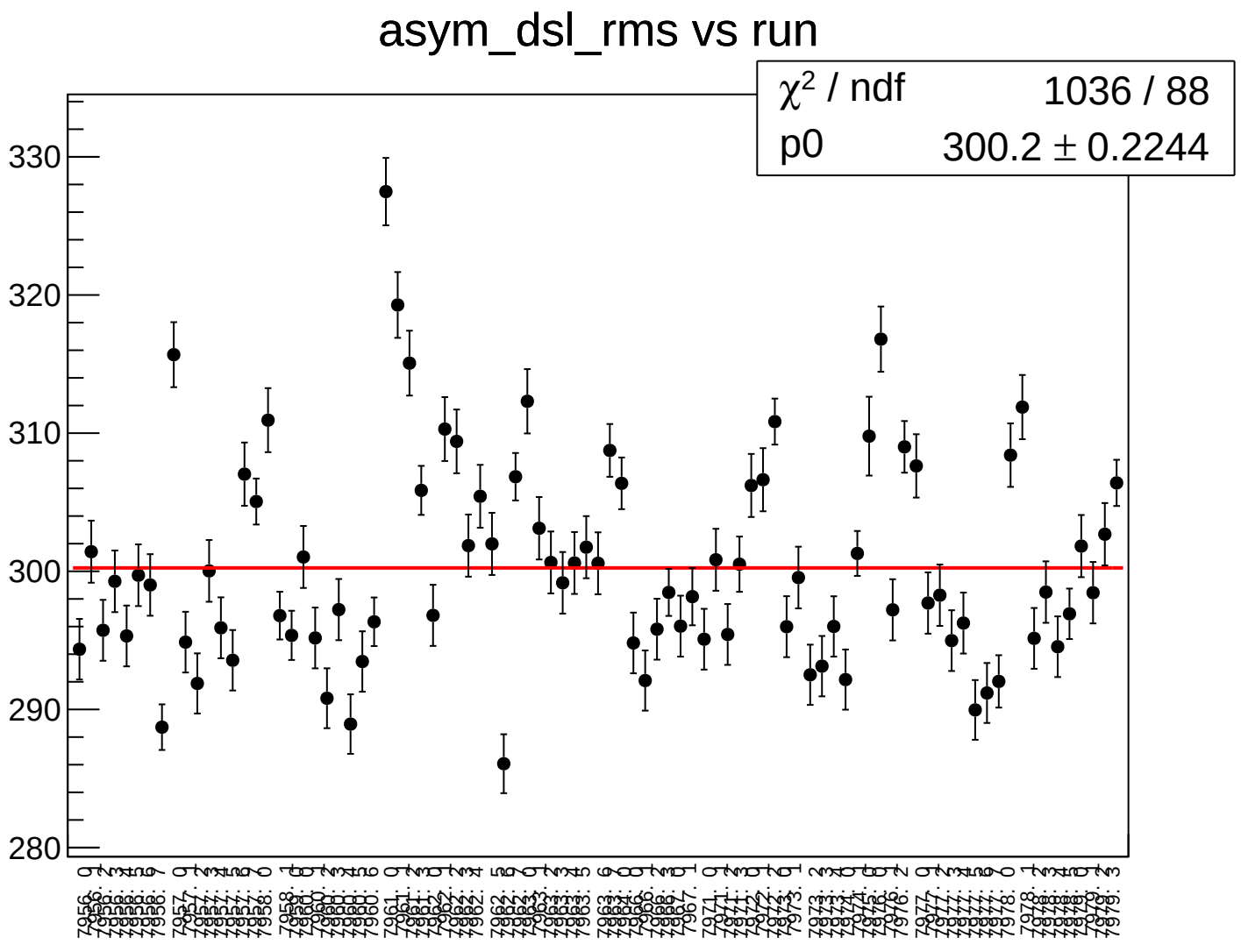

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.38 / 88
p0 −0.06297 ± 0.04191
pull
Entries 89
Mean 105.1
Std Dev 0

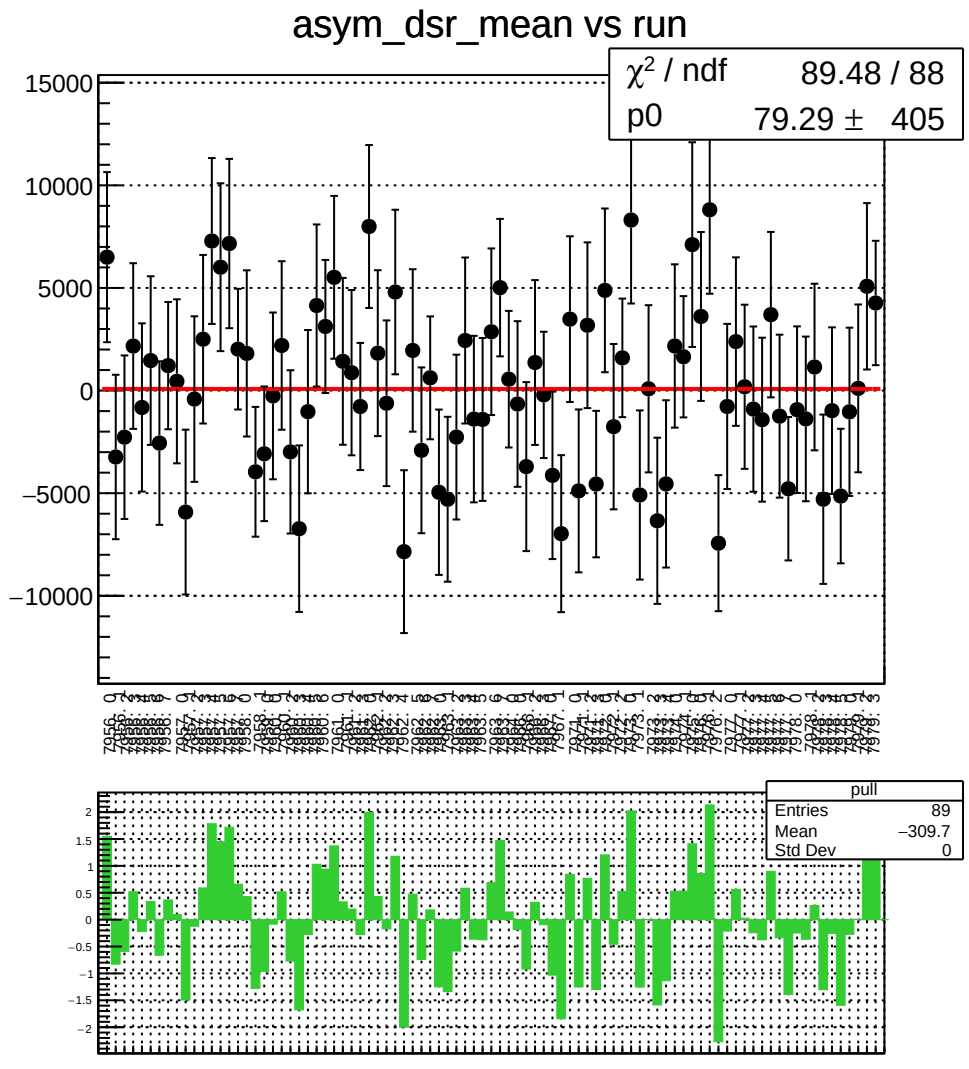

pull1D
Entries 89
Mean 0.03739
Std Dev 0.9134

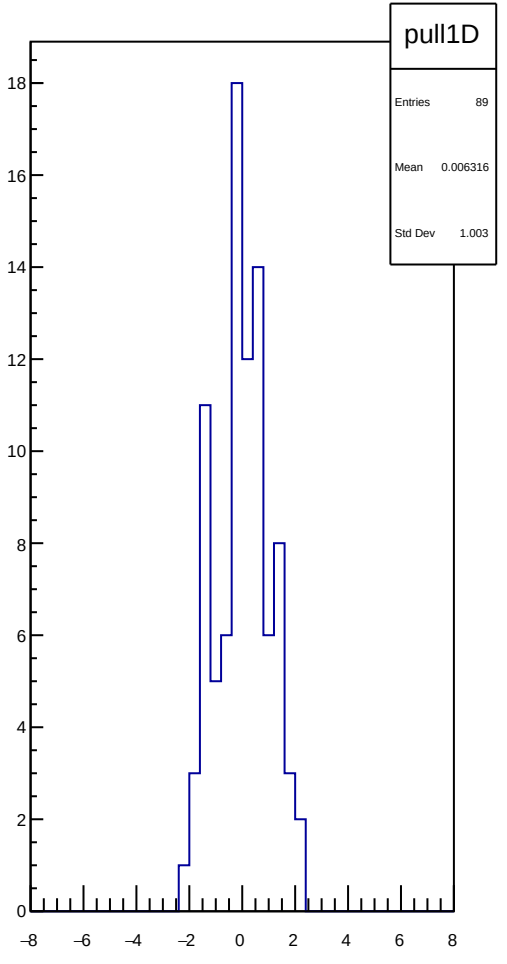

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.523e+05 / 88
p0 37.93 ± 0.02963
70
60
50
40
30
20
10

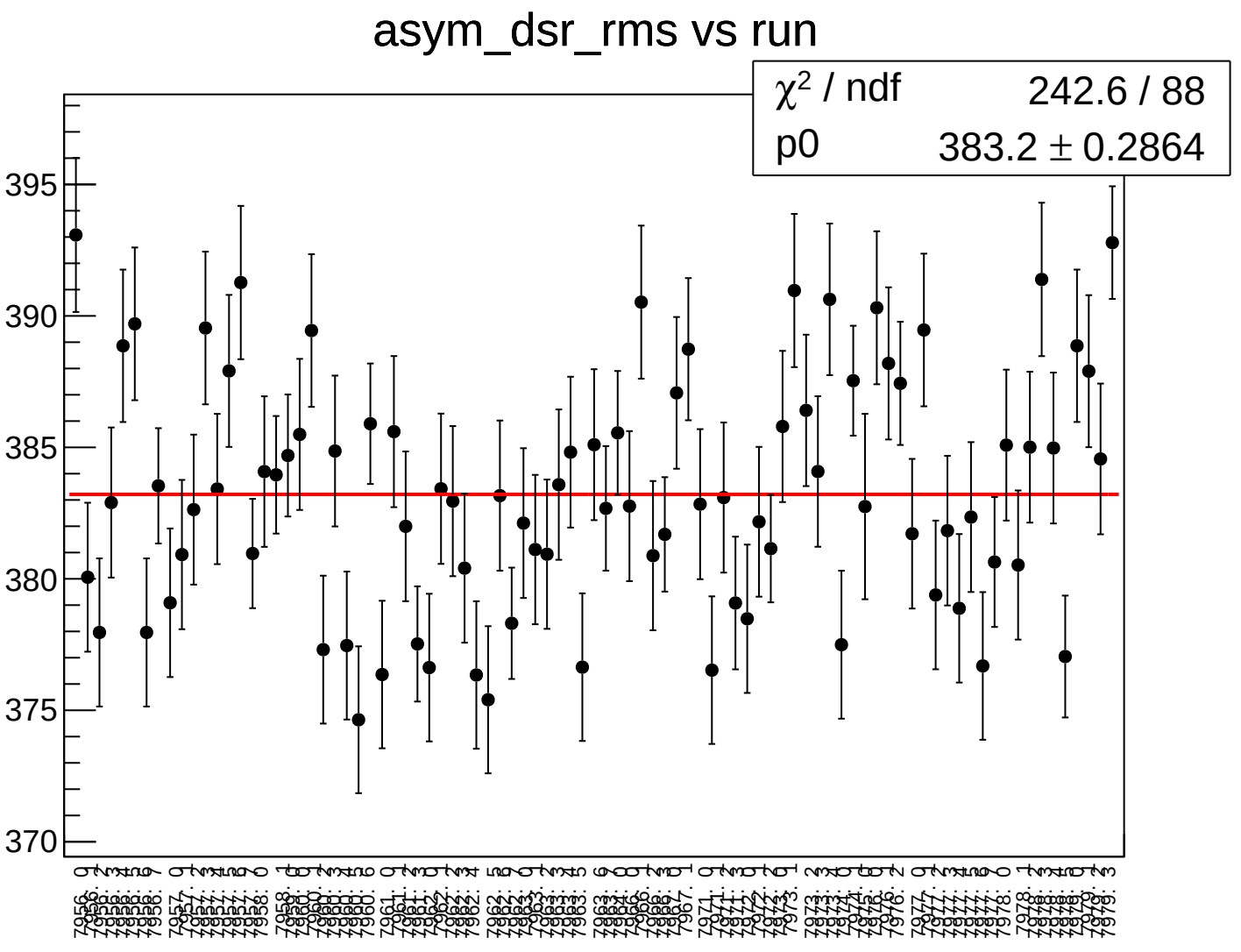

asym_dsl_mean vs run
χ² / ndf 82.75 / 88
p0 409 ± 317.4
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1744
Std Dev 0
3
2
1
0
−1
−2

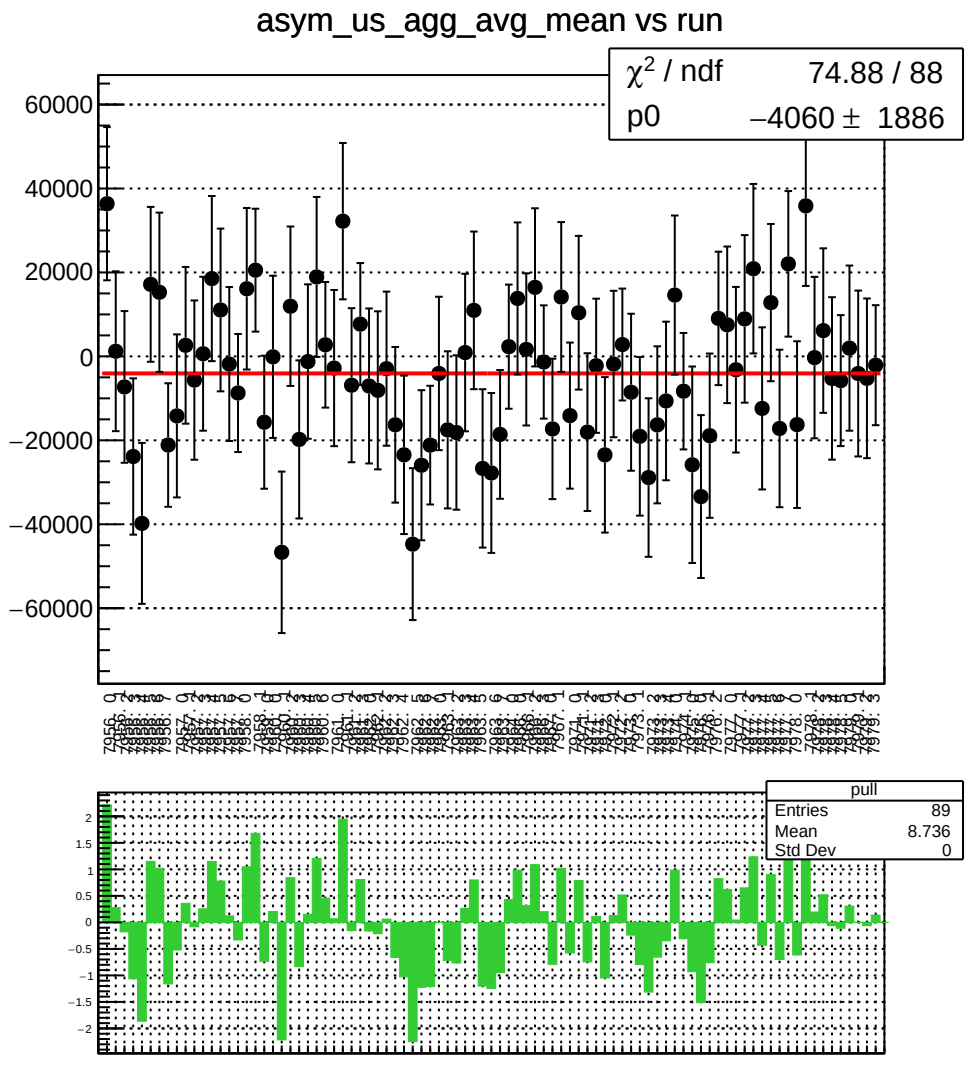

pull1D
Entries 89
Mean 0.0009716
Std Dev 0.9643
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

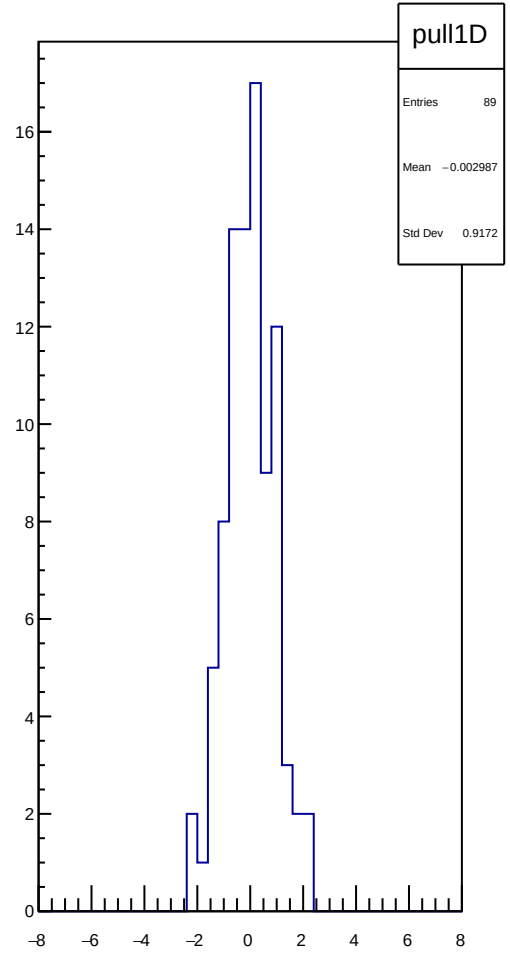

asym_dsl_rms vs run
$\chi^2$ / ndf 1036 / 88
p0 300.2 ± 0.2244
330
320
310
300
290
280

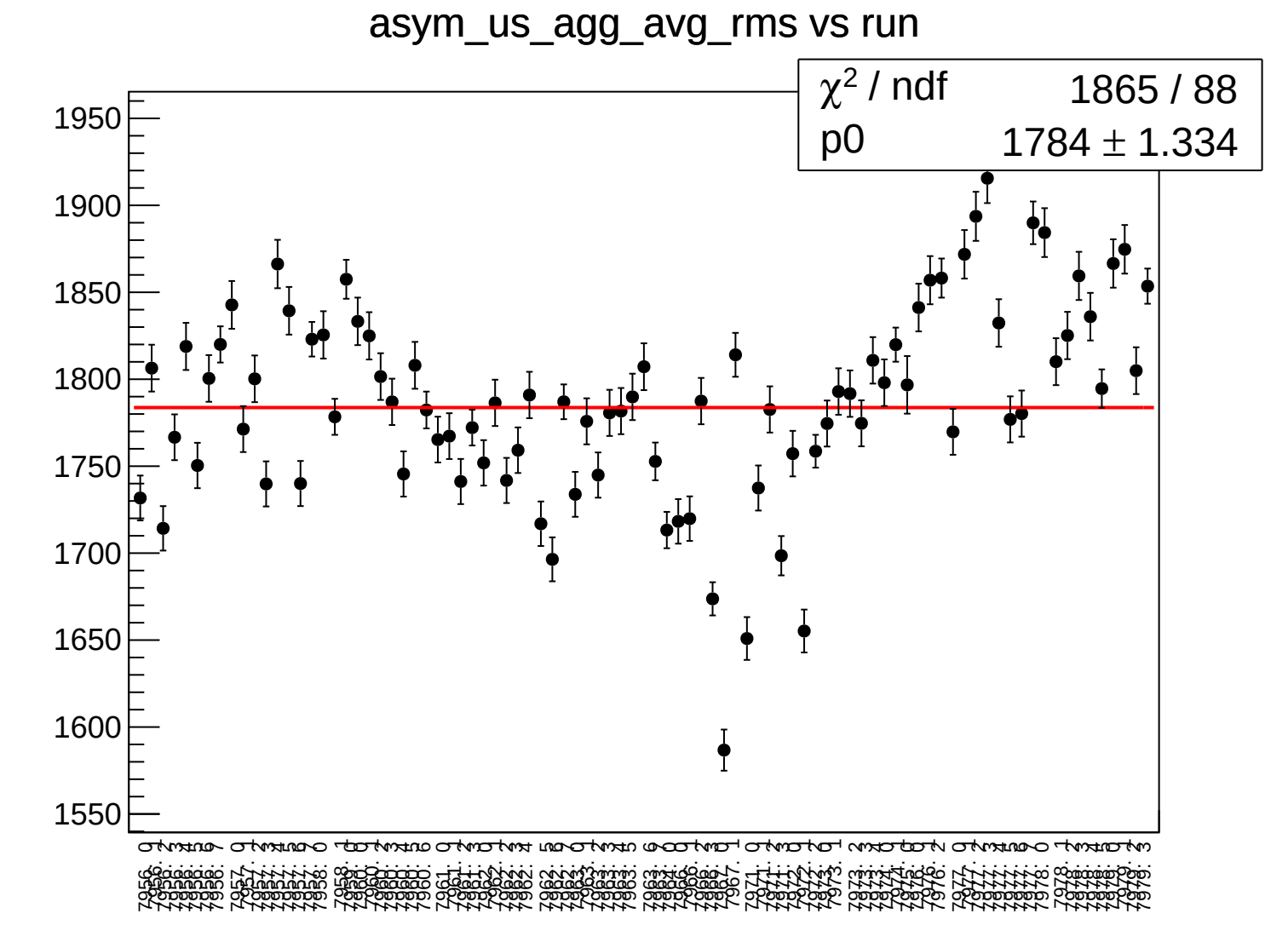

asym_dsr_mean vs run
χ² / ndf 89.48 / 88
p0 79.29 ± 405
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −309.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

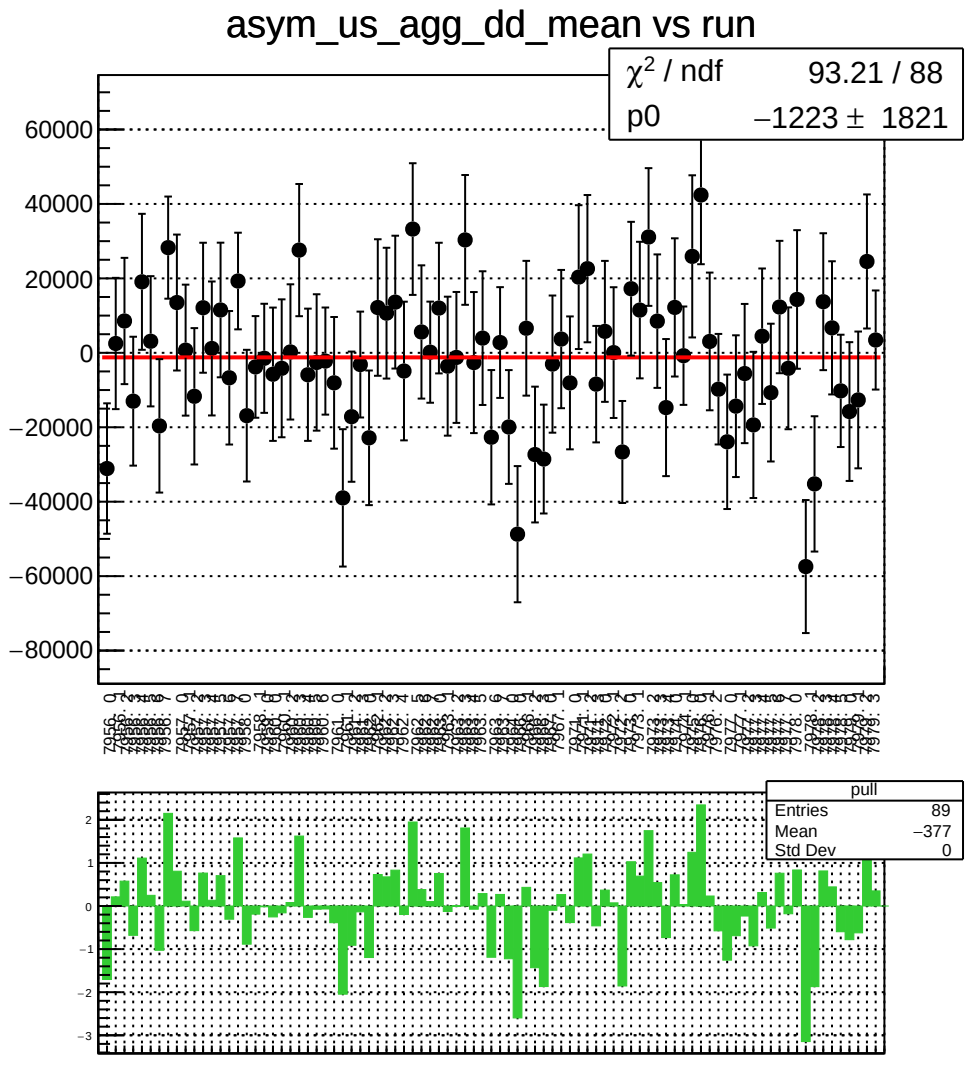

pull1D
Entries 89
Mean 0.006316
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

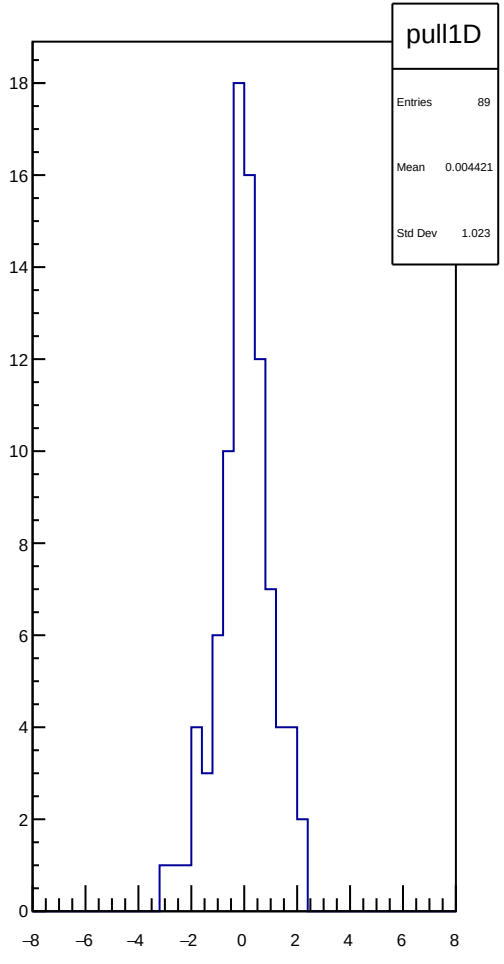

asym_dsr_rms vs run
$\chi^2$ / ndf 242.6 / 88
p0 383.2 ± 0.2864
395
390
385
380
375
370

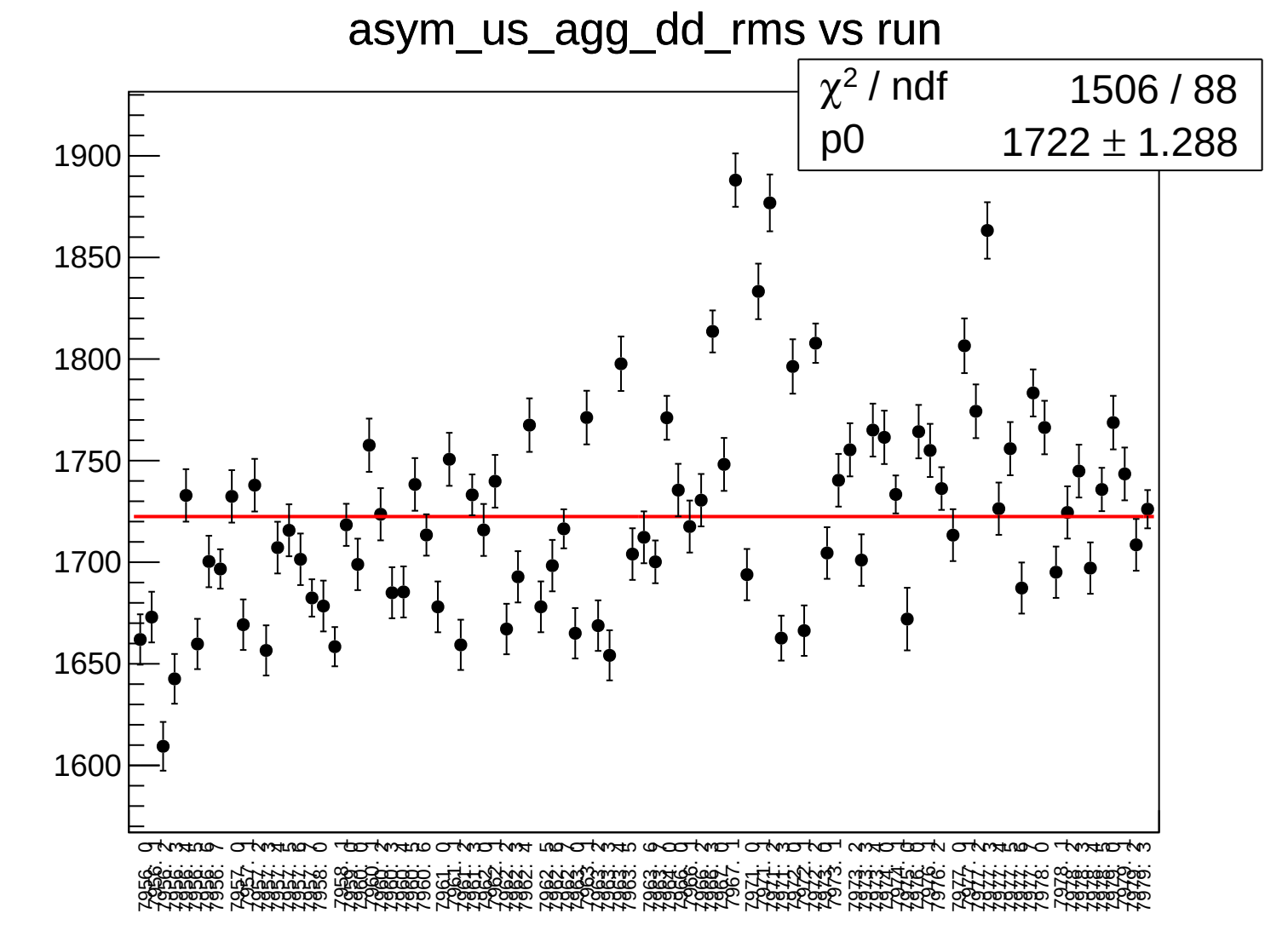

asym_us_agg_avg_mean vs run
χ² / ndf 74.88 / 88
p0 −4060 ± 1886
pull
Entries 89
Mean 8.736
Std Dev 0

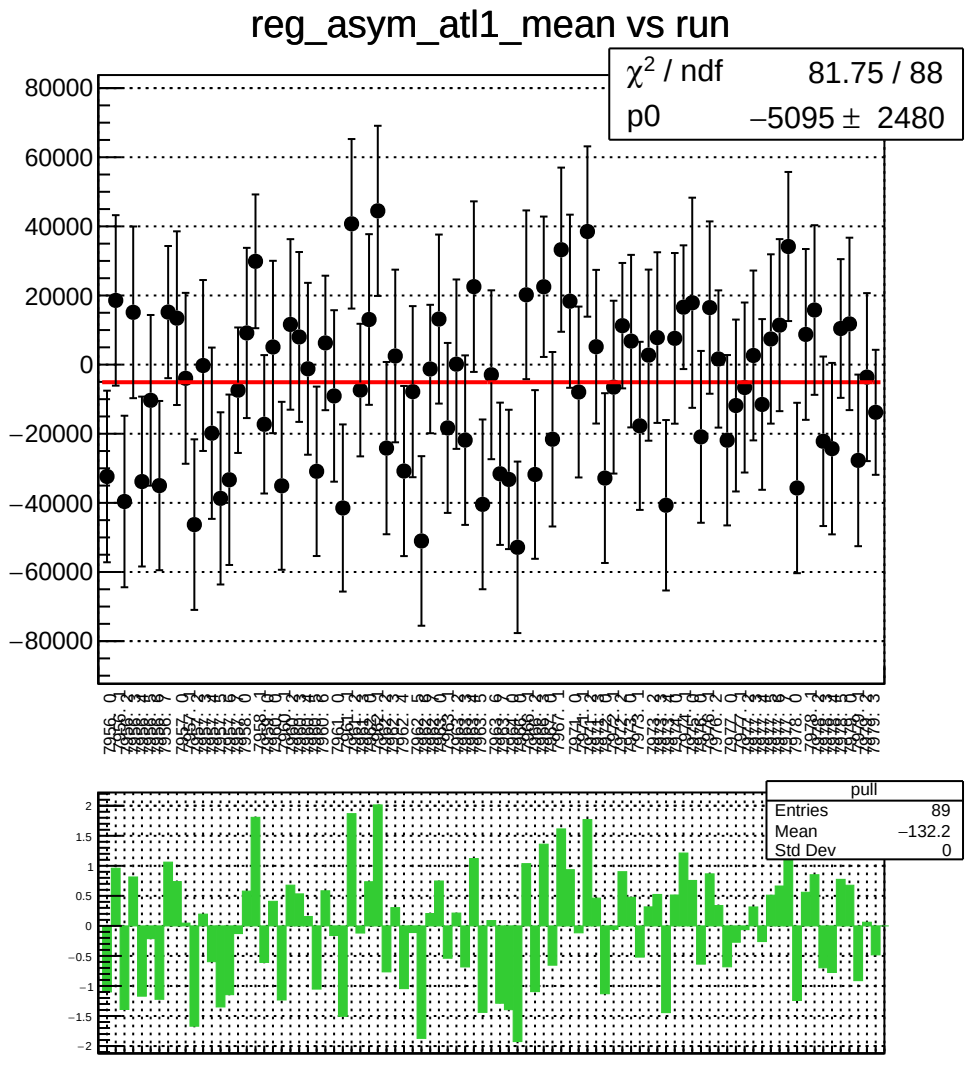

pull1D
Entries 89
Mean −0.002987
Std Dev 0.9172

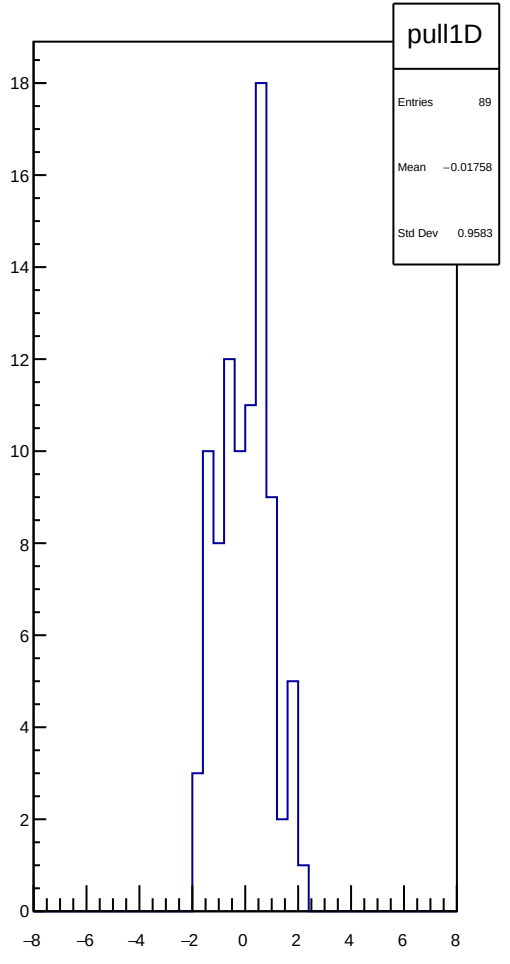

asym_us_agg_avg_rms vs run
χ² / ndf 1865 / 88
p0 1784 ± 1.334
1950
1900
1850
1800
1750
1700
1650
1600
1550

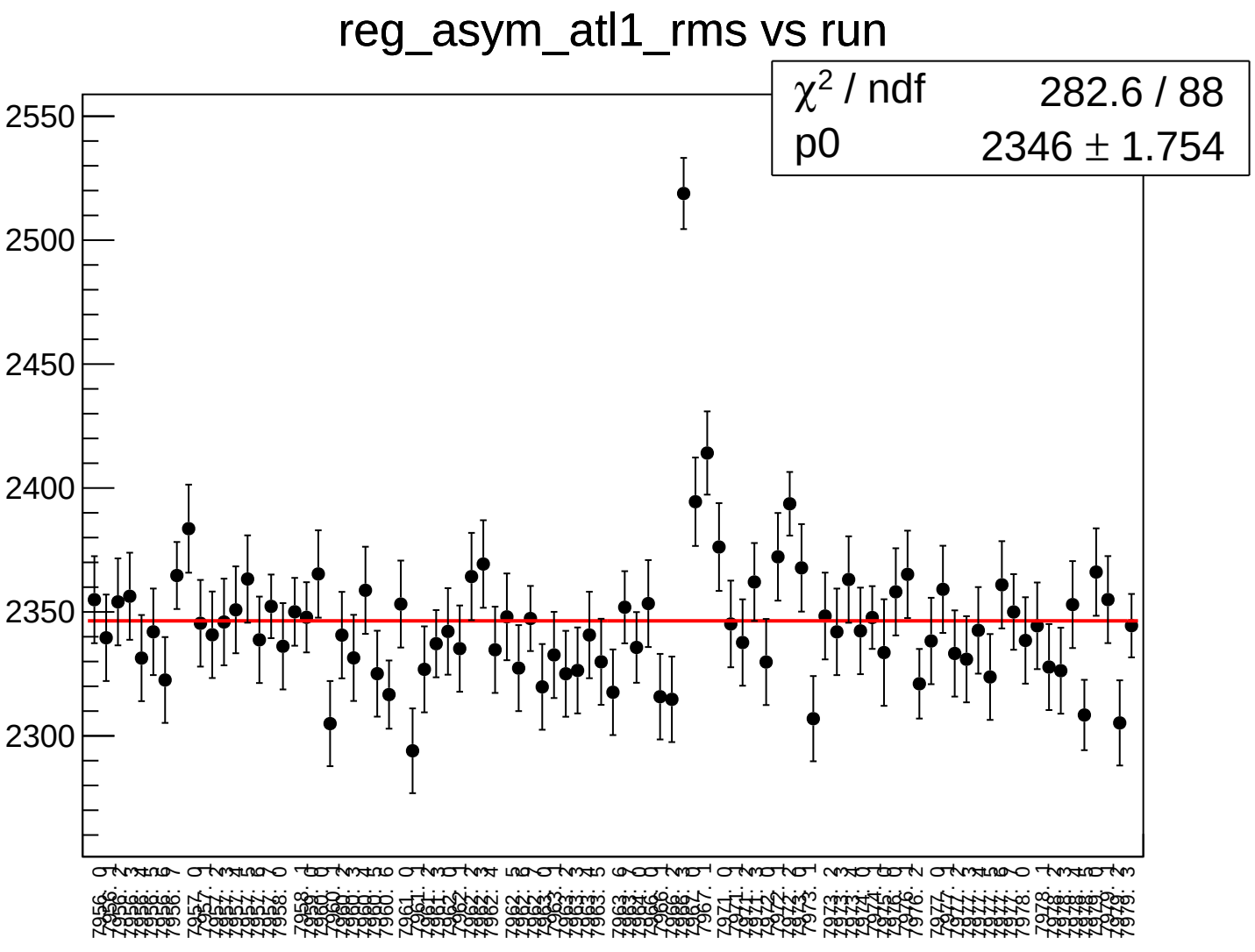

asym_us_agg_dd_mean vs run
χ² / ndf 93.21 / 88
p0 −1223 ± 1821
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −377
Std Dev 0
2
1
0
−1
−2
−3

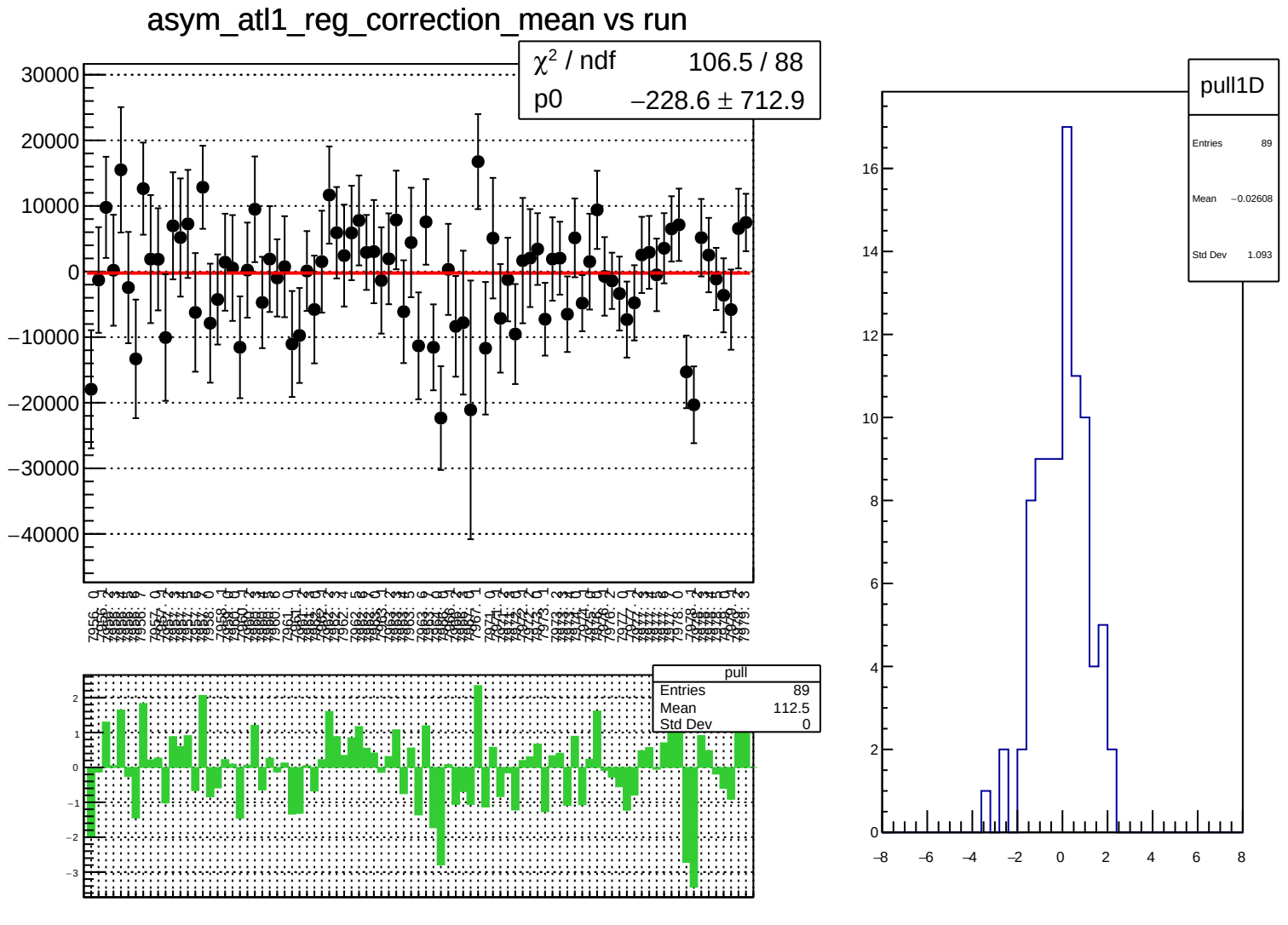

pull1D
Entries 89
Mean 0.004421
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

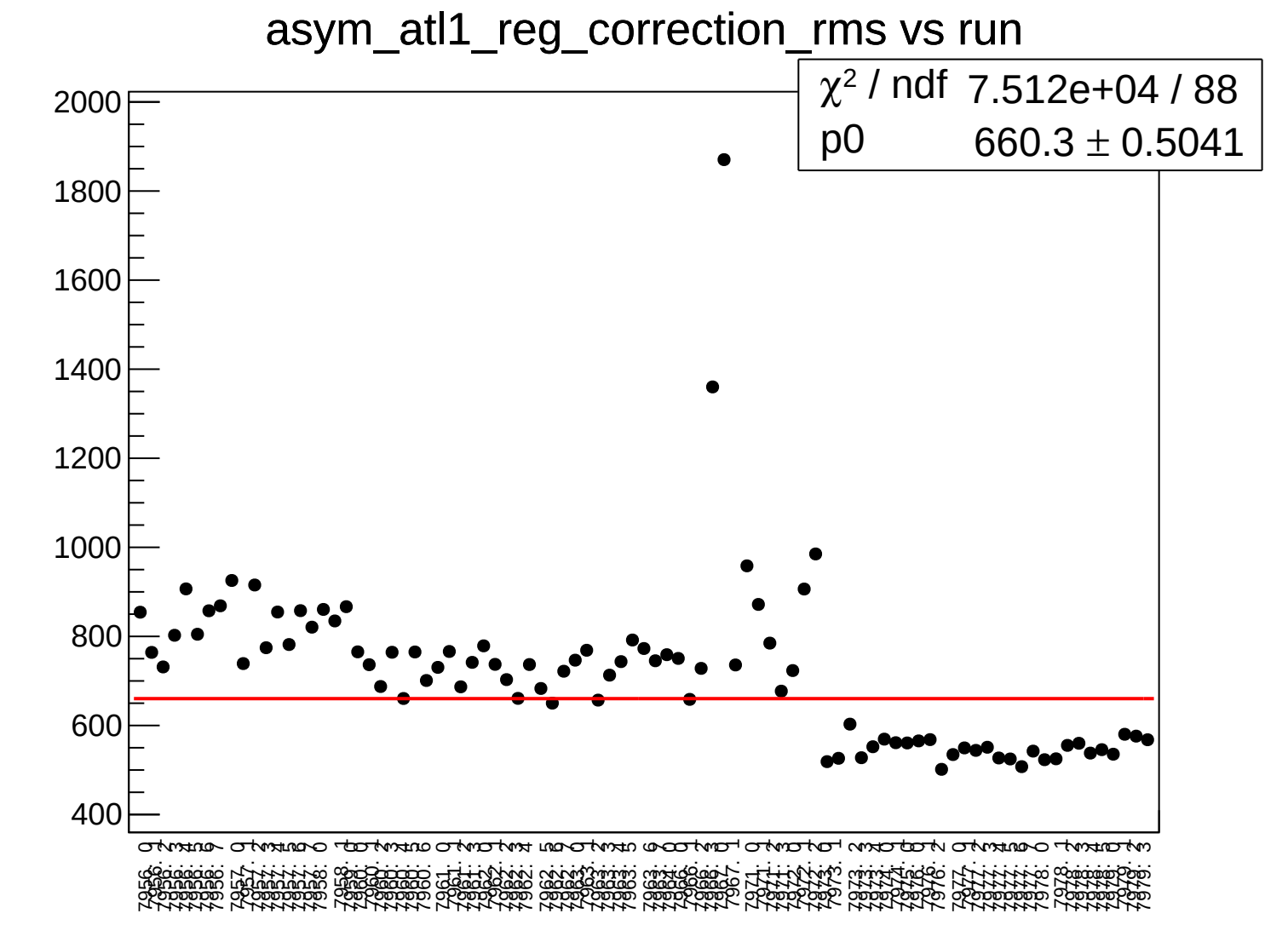

asym_us_agg_dd_rms vs run
χ² / ndf 1506 / 88
p0 1722 ± 1.288
1900
1850
1800
1750
1700
1650
1600

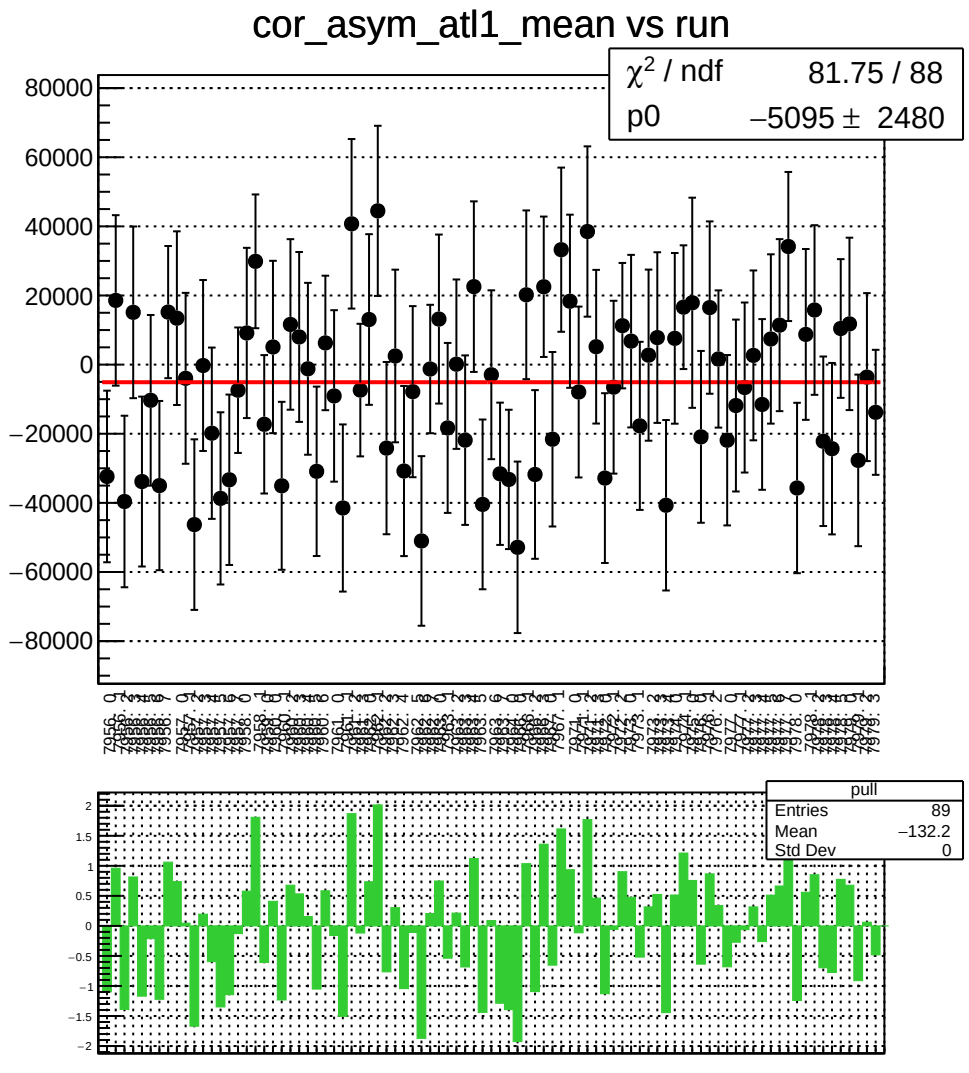

reg_asym_atl1_mean vs run
χ² / ndf 81.75 / 88
p0 −5095 ± 2480
pull
Entries 89
Mean −132.2
Std Dev 0

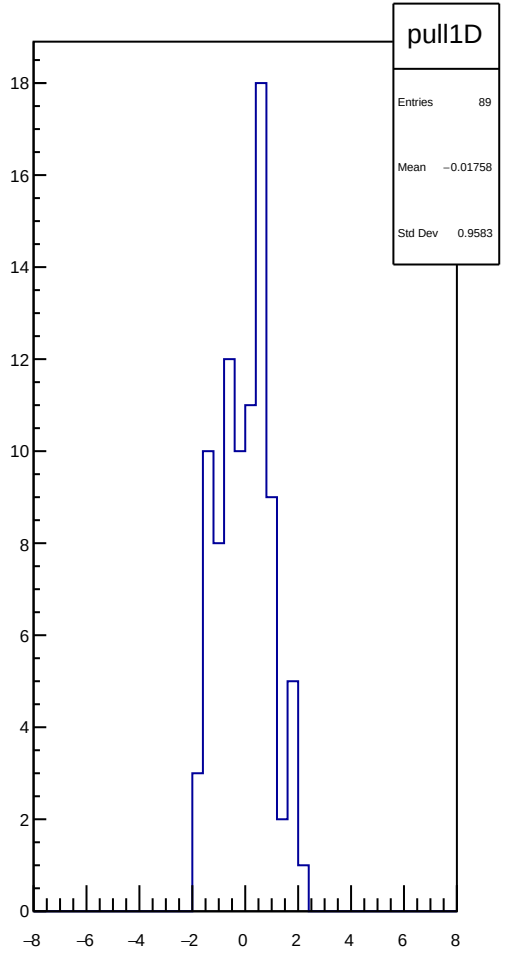

pull1D
Entries 89
Mean −0.01758
Std Dev 0.9583

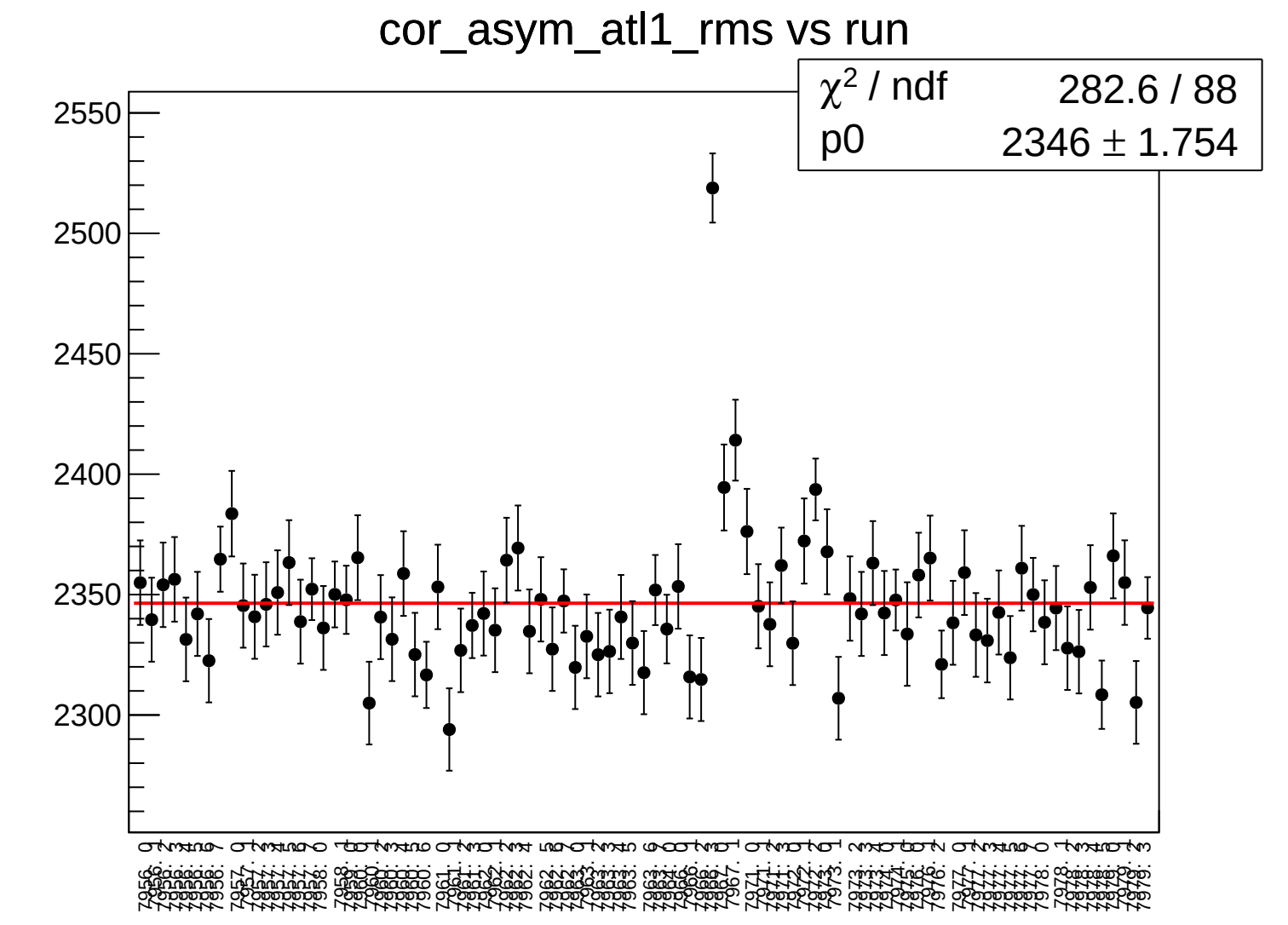

reg_asym_atl1_rms vs run
$\chi^2$ / ndf 282.6 / 88
p0 2346 ± 1.754
2550
2500
2450
2400
2350
2300

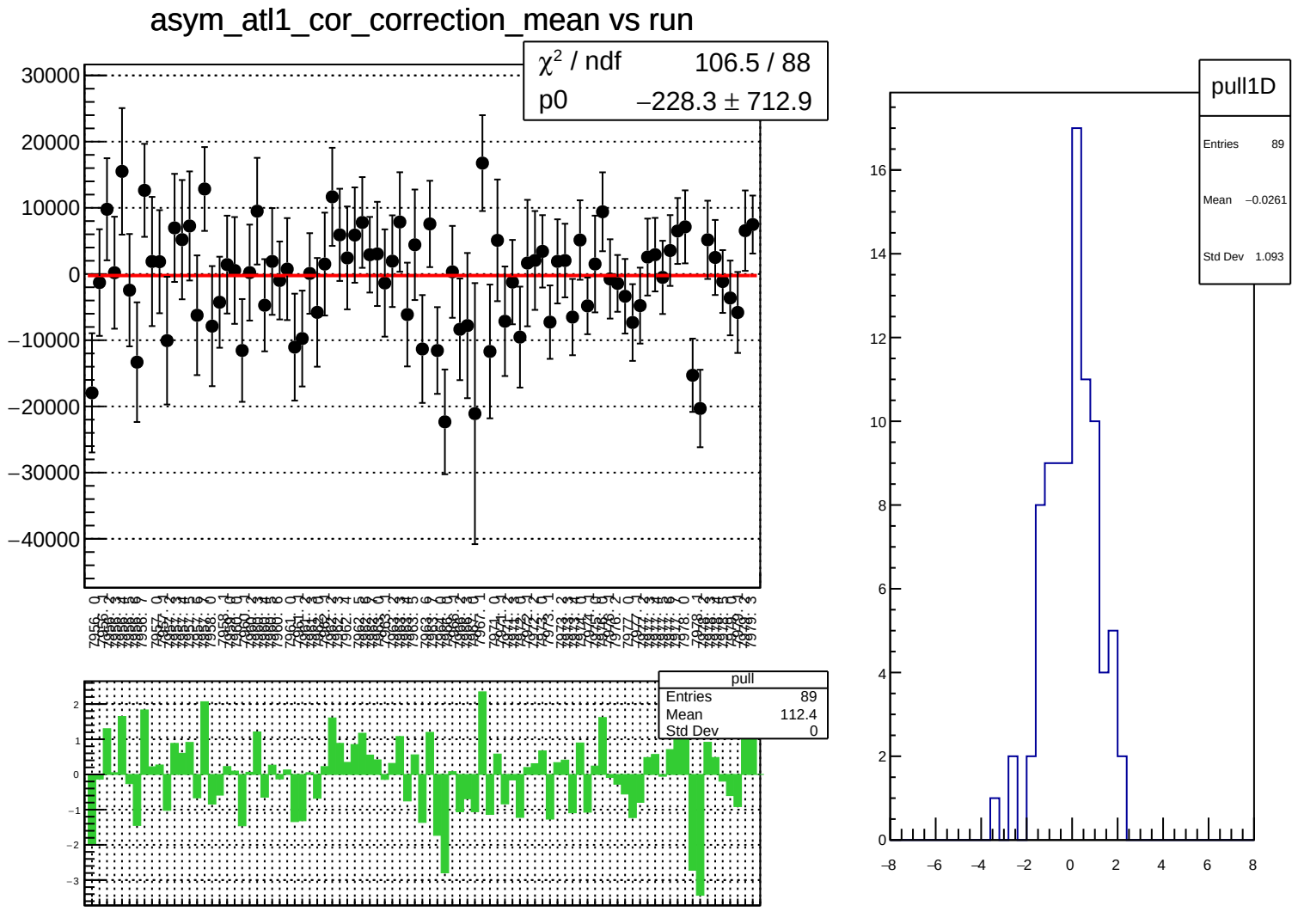

asym_atl1_reg_correction_mean vs run
χ² / ndf 106.5 / 88
p0 −228.6 ± 712.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 112.5
Std Dev 0
pull1D
Entries 89
Mean −0.02608
Std Dev 1.093

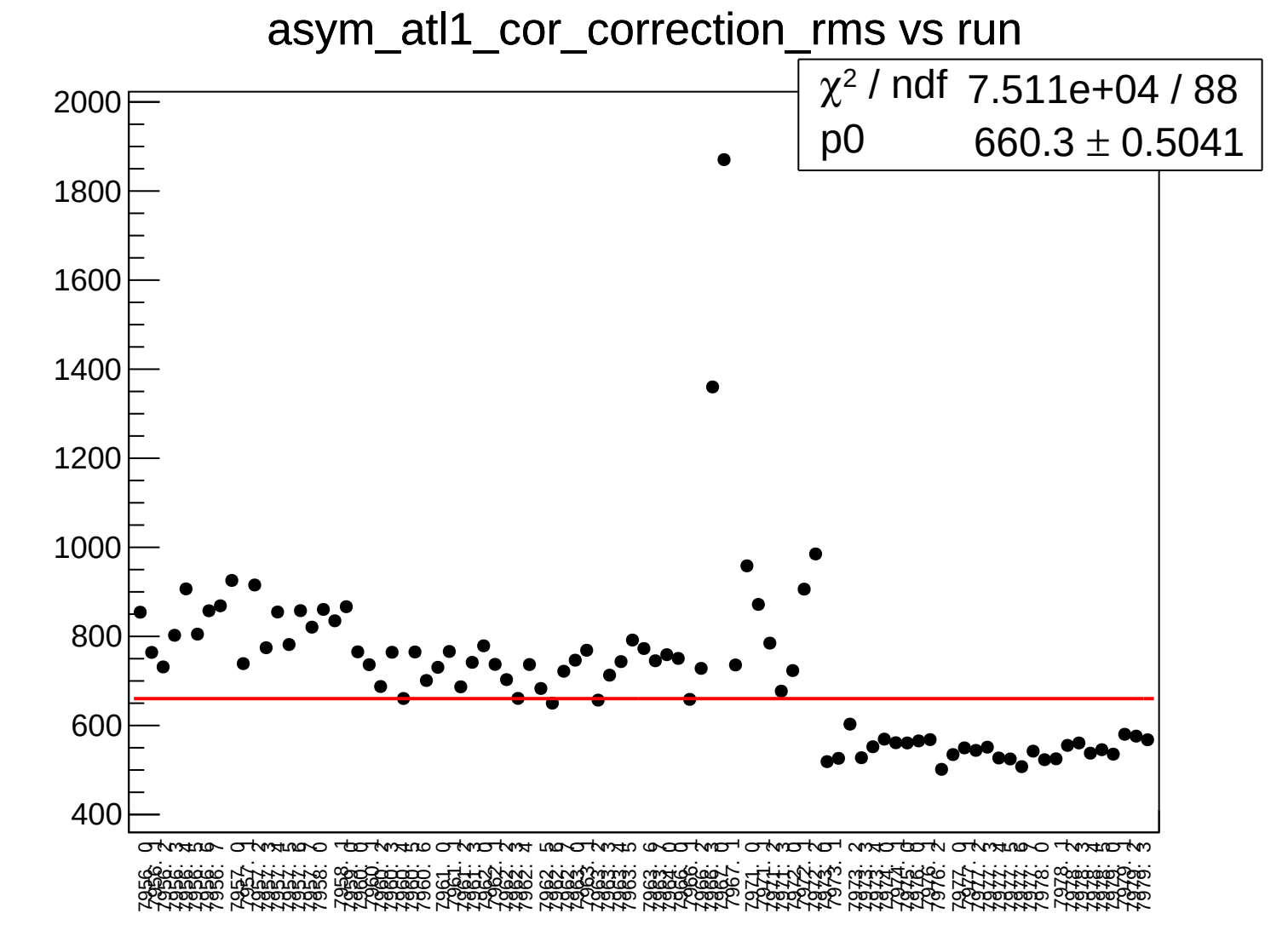

asym_atl1_reg_correction_rms vs run
χ² / ndf 7.512e+04 / 88
p0 660.3 ± 0.5041
2000
1800
1600
1400
1200
1000
800
600
400

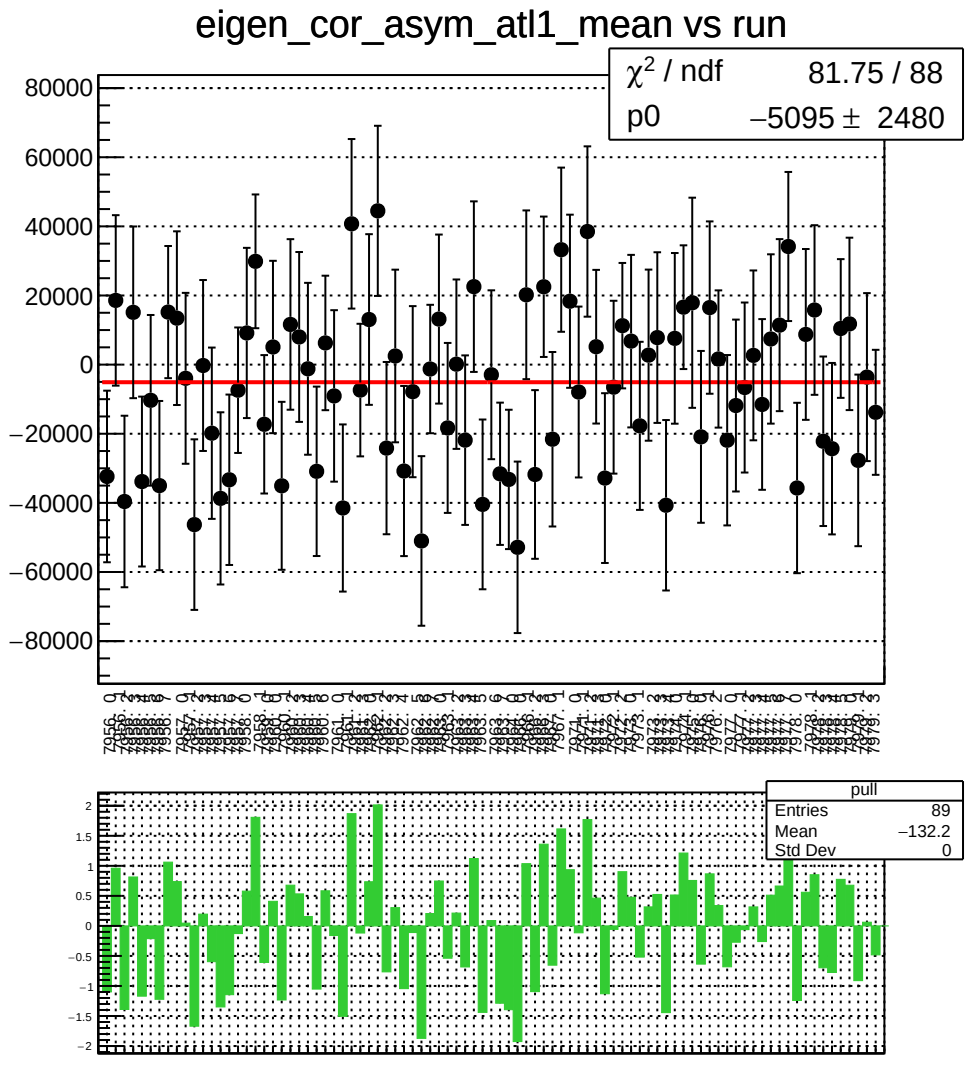

cor_asym_atl1_mean vs run
χ² / ndf 81.75 / 88
p0 −5095 ± 2480
pull
Entries 89
Mean −132.2
Std Dev 0

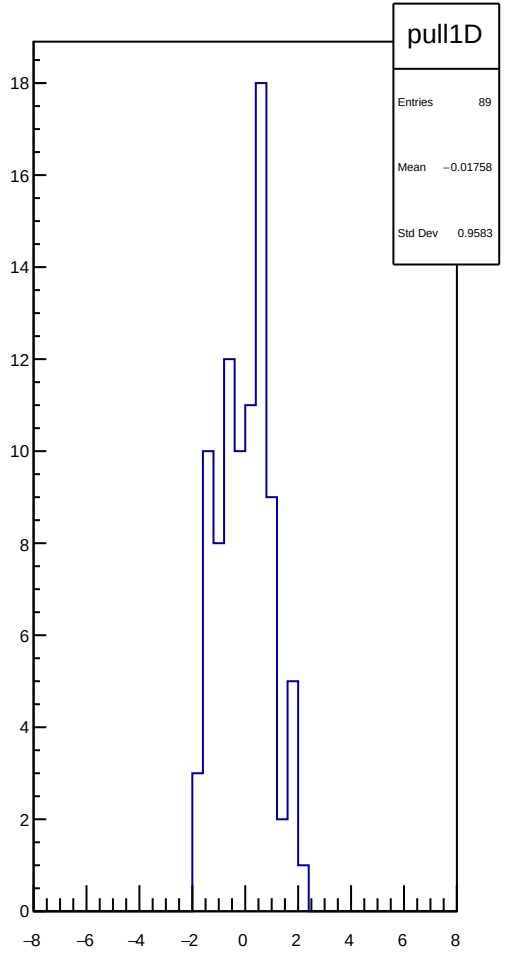

pull1D
Entries 89
Mean −0.01758
Std Dev 0.9583

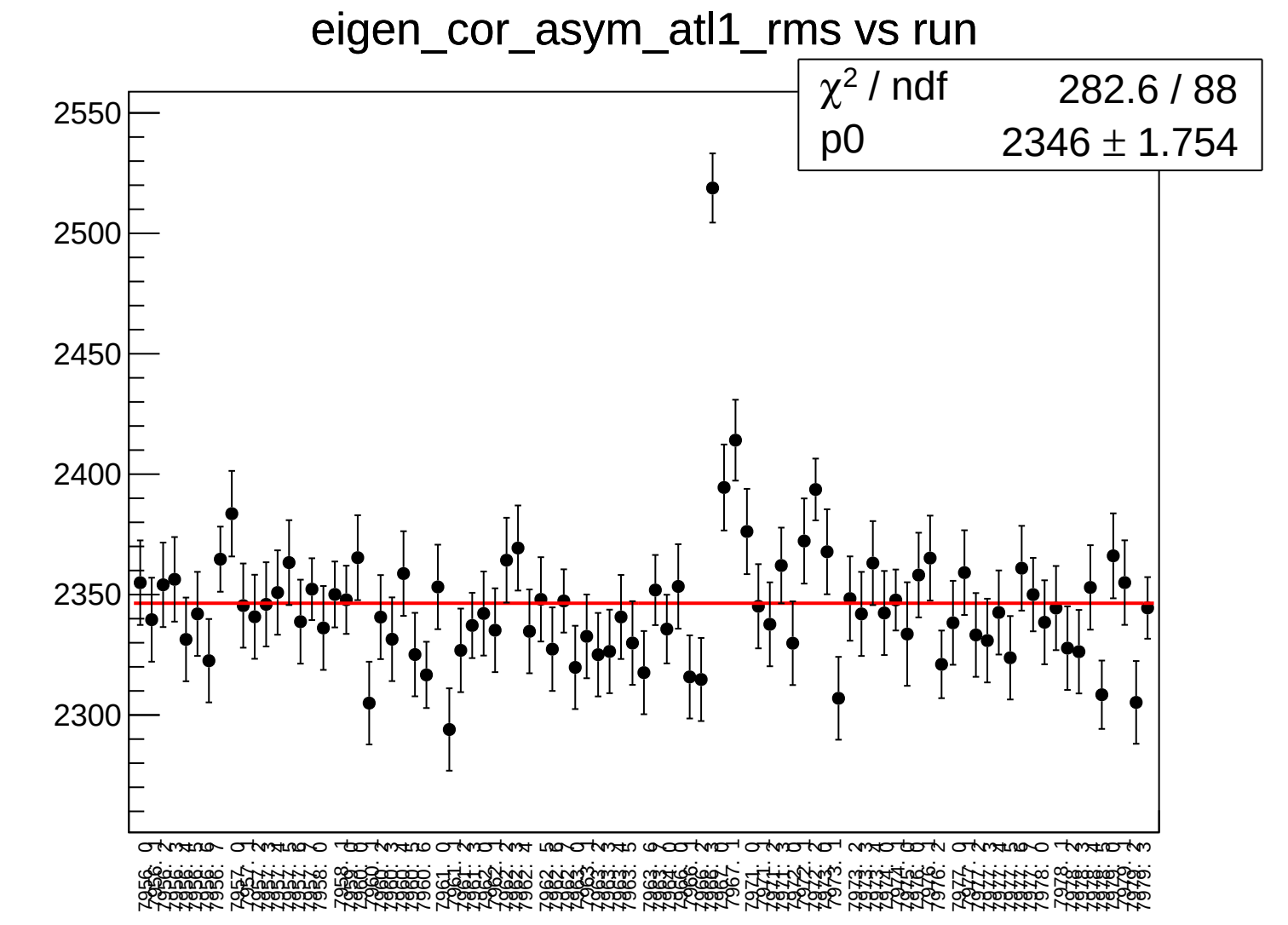

cor_asym_atl1_rms vs run
$\chi^2$ / ndf 282.6 / 88
p0 2346 ± 1.754
2550
2500
2450
2400
2350
2300

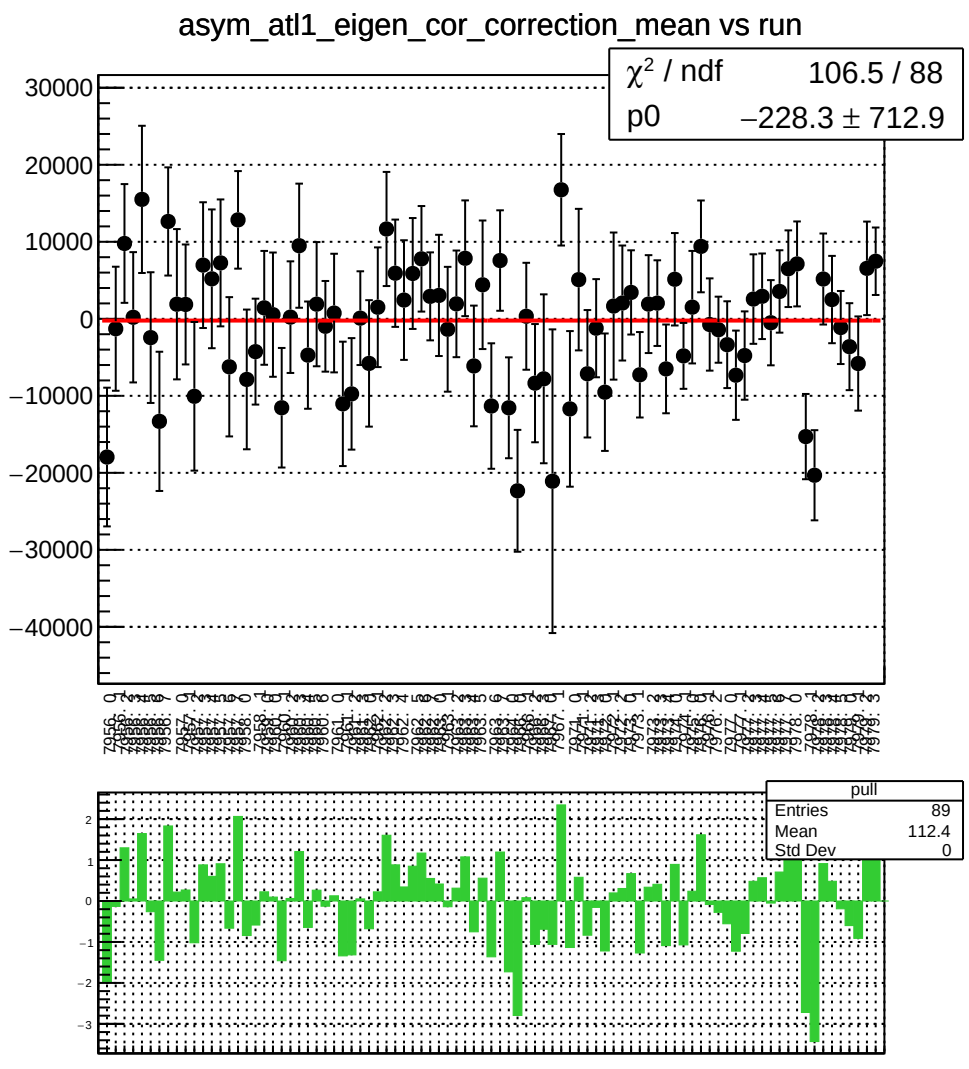

asym_atl1_cor_correction_mean vs run
χ² / ndf 106.5 / 88
p0 −228.3 ± 712.9
pull
Entries 89
Mean 112.4
Std Dev 0
pull1D
Entries 89
Mean −0.0261
Std Dev 1.093

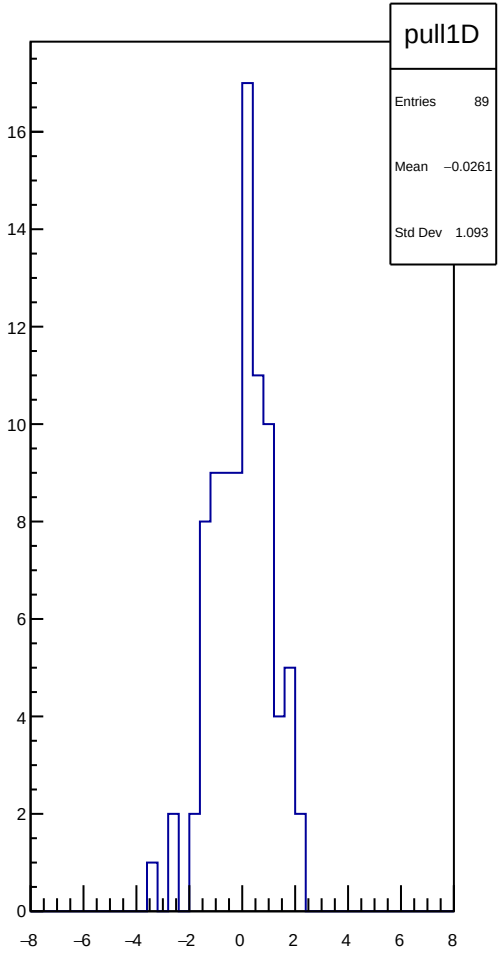

asym_atl1_cor_correction_rms vs run
χ² / ndf 7.511e+04 / 88
p0 660.3 ± 0.5041
2000
1800
1600
1400
1200
1000
800
600
400

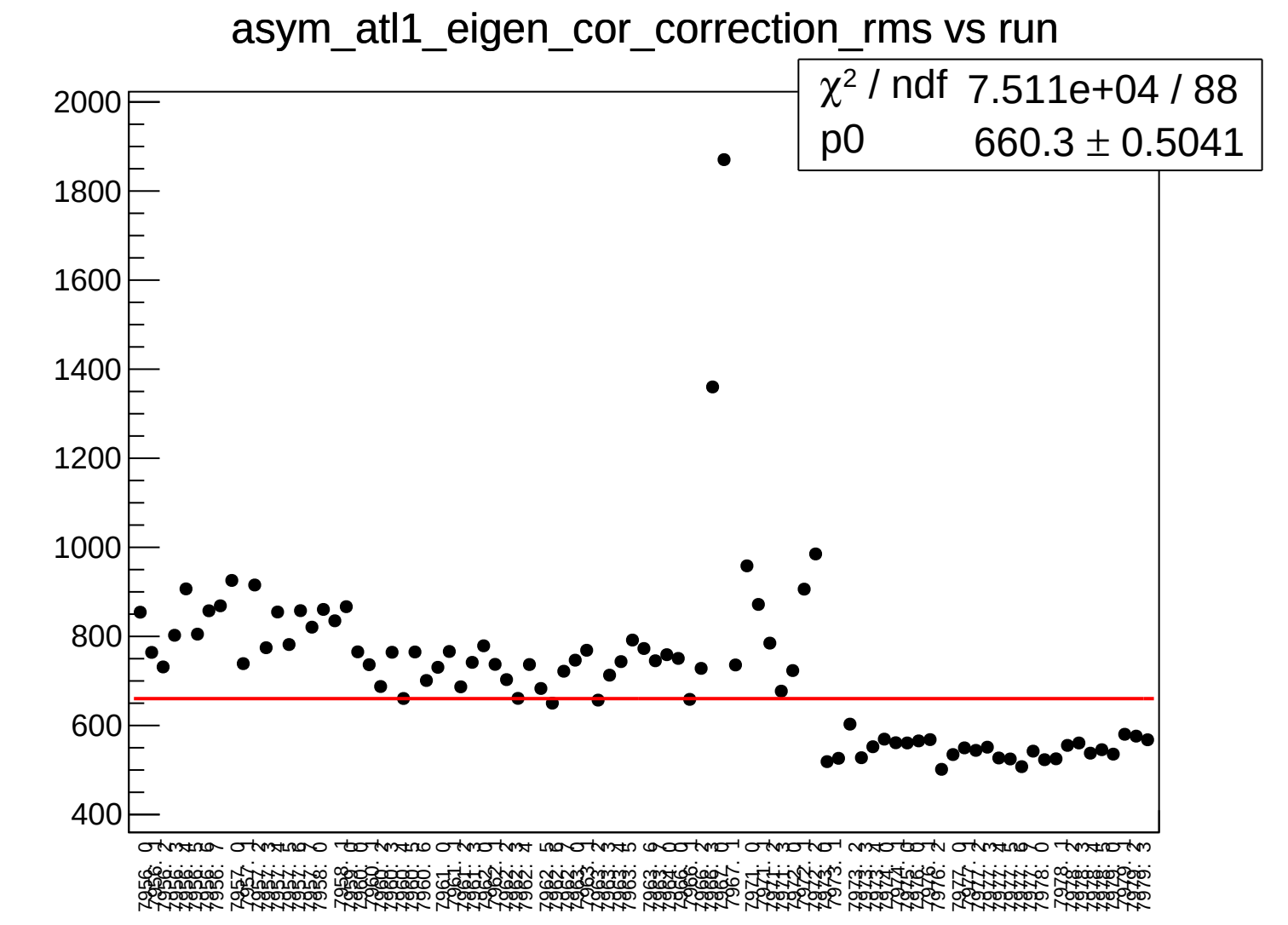

eigen_cor_asym_atl1_mean vs run
χ² / ndf 81.75 / 88
p0 −5095 ± 2480
pull
Entries 89
Mean −132.2
Std Dev 0

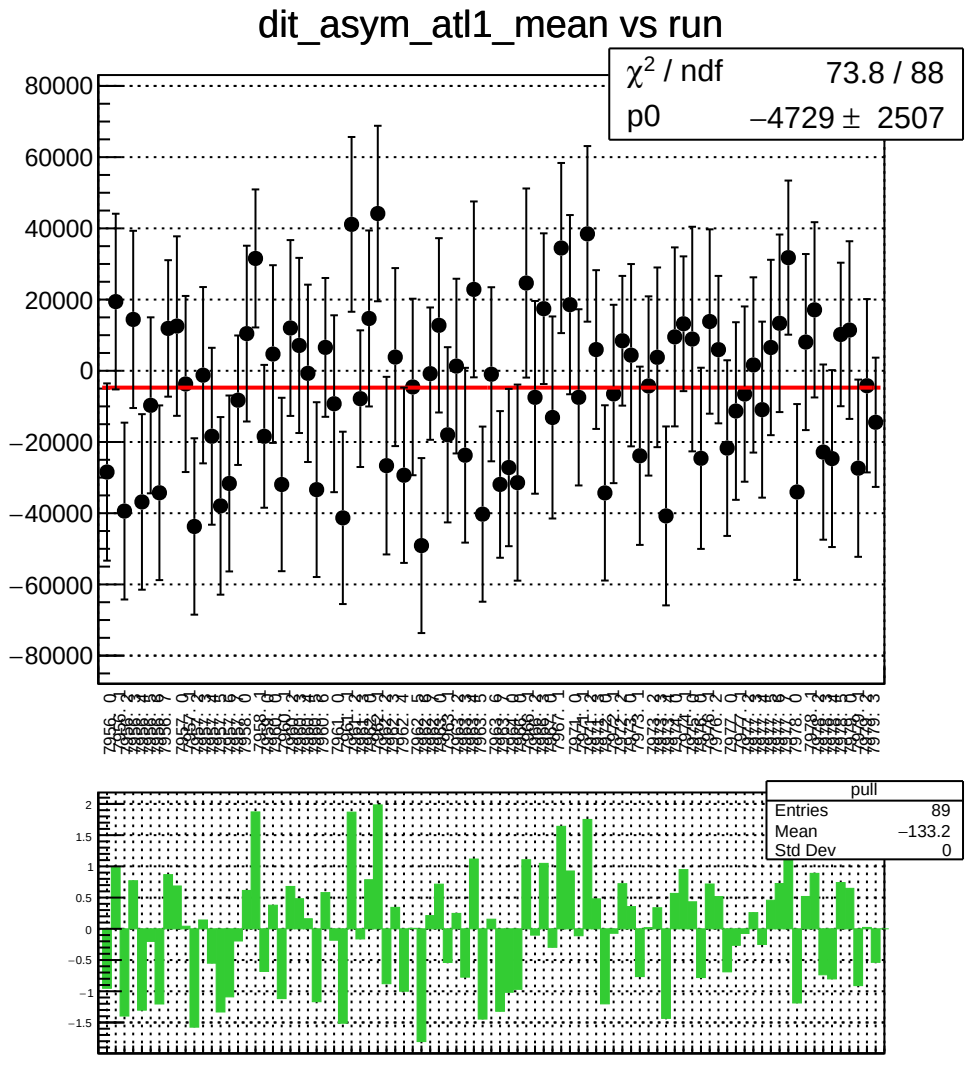

pull1D
Entries 89
Mean −0.01758
Std Dev 0.9583

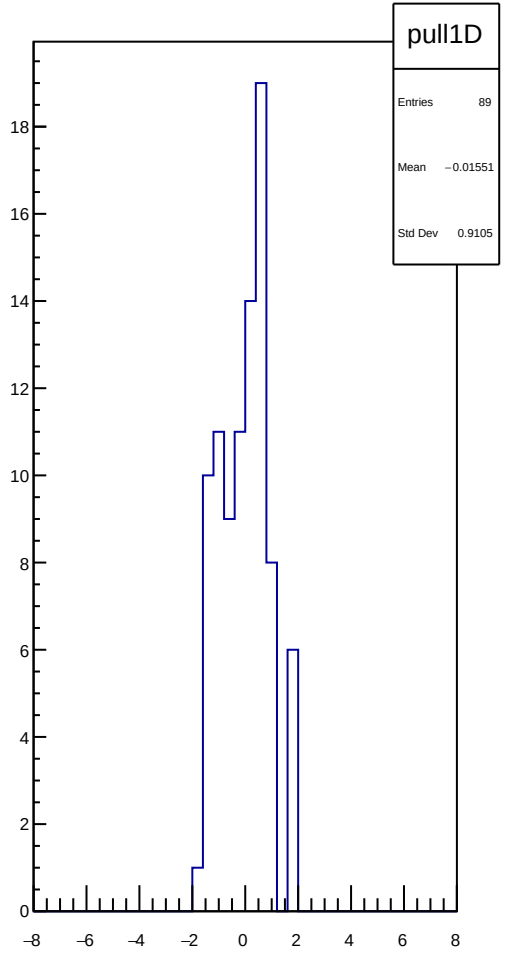

eigen_cor_asym_atl1_rms vs run
$\chi^2$ / ndf 282.6 / 88
p0 2346 ± 1.754
2550
2500
2450
2400
2350
2300

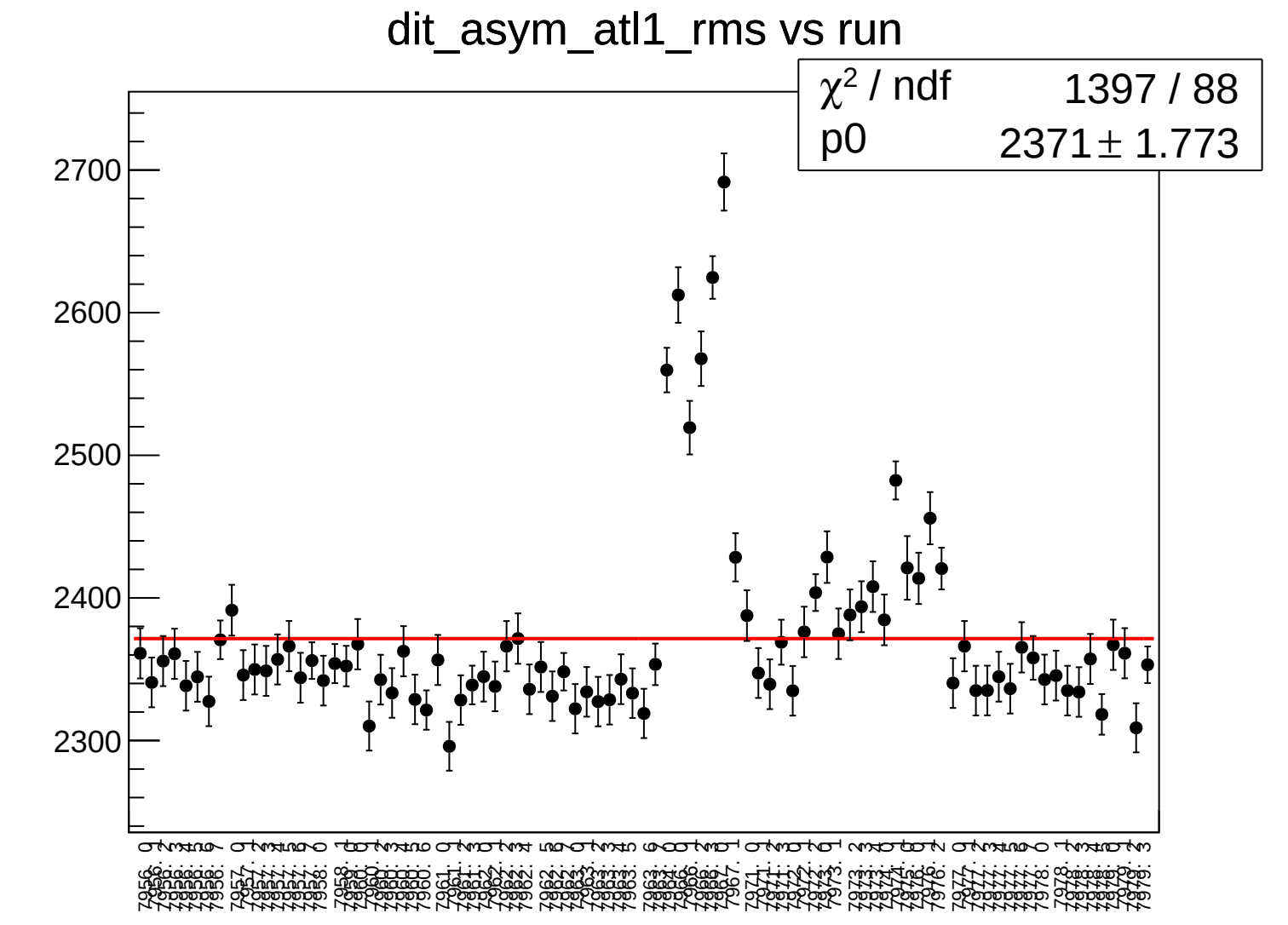

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 106.5 / 88
p0 −228.3 ± 712.9
pull
Entries 89
Mean 112.4
Std Dev 0

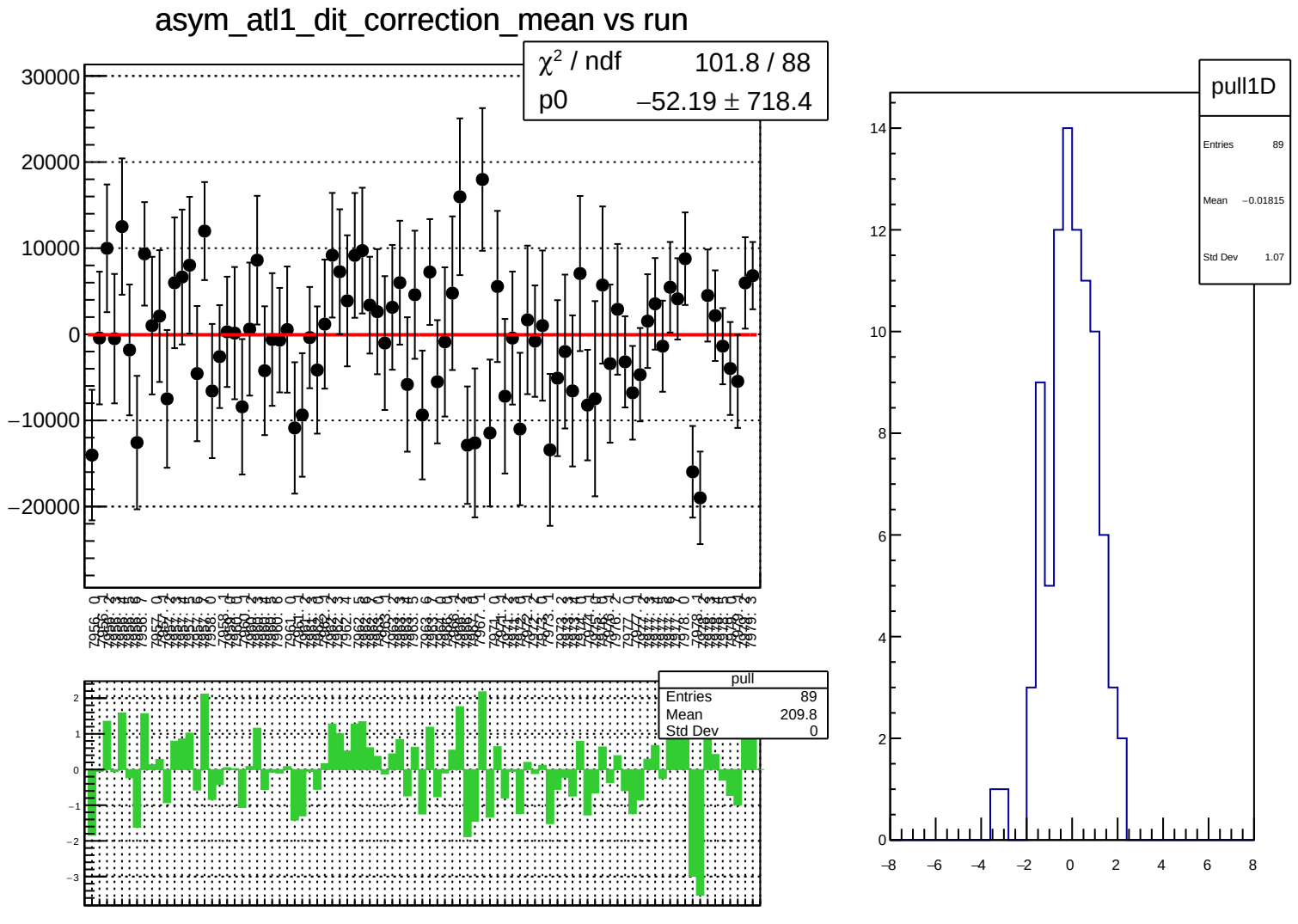

pull1D
Entries 89
Mean −0.0261
Std Dev 1.093

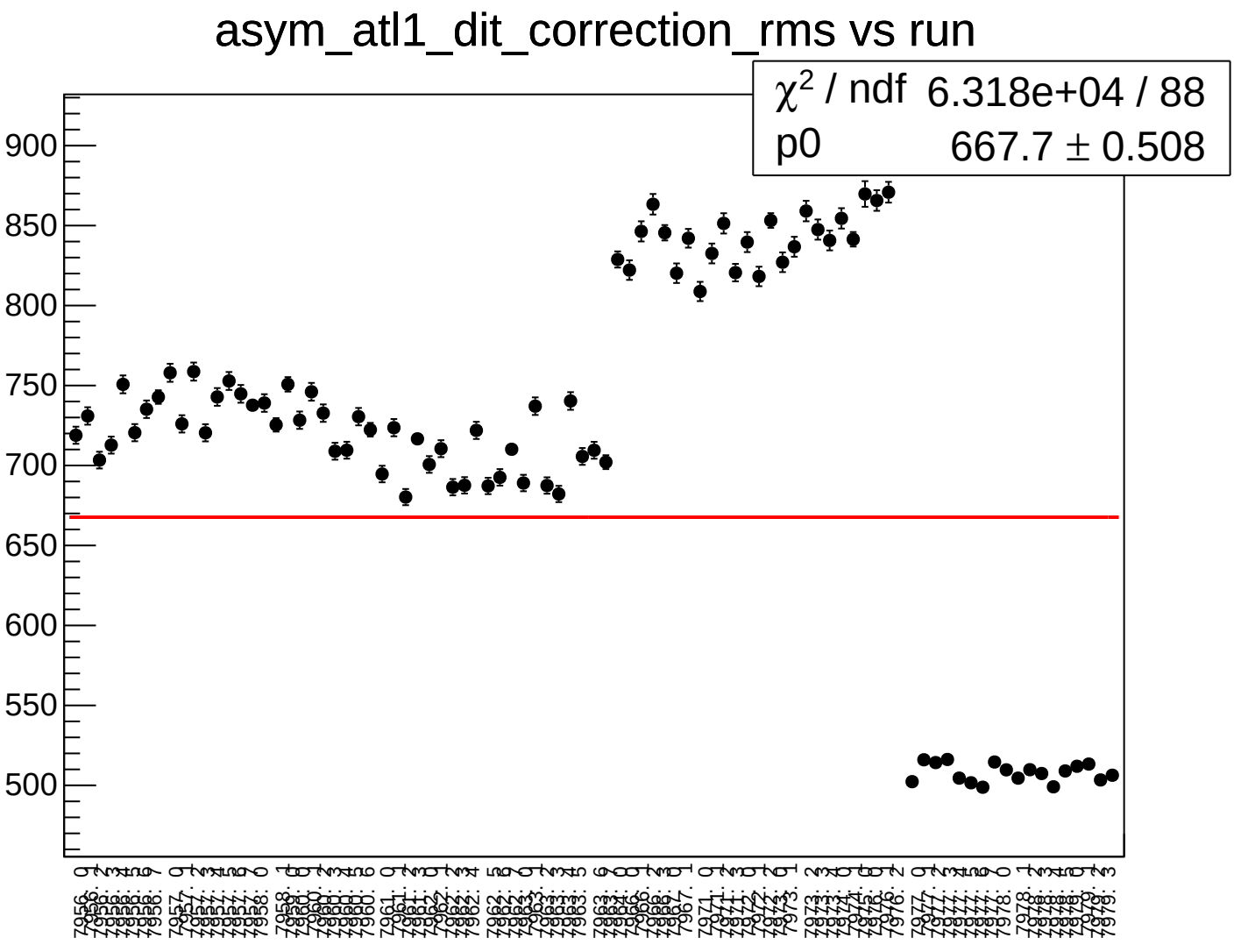

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 7.511e+04 / 88
p0 660.3 ± 0.5041
2000
1800
1600
1400
1200
1000
800
600
400

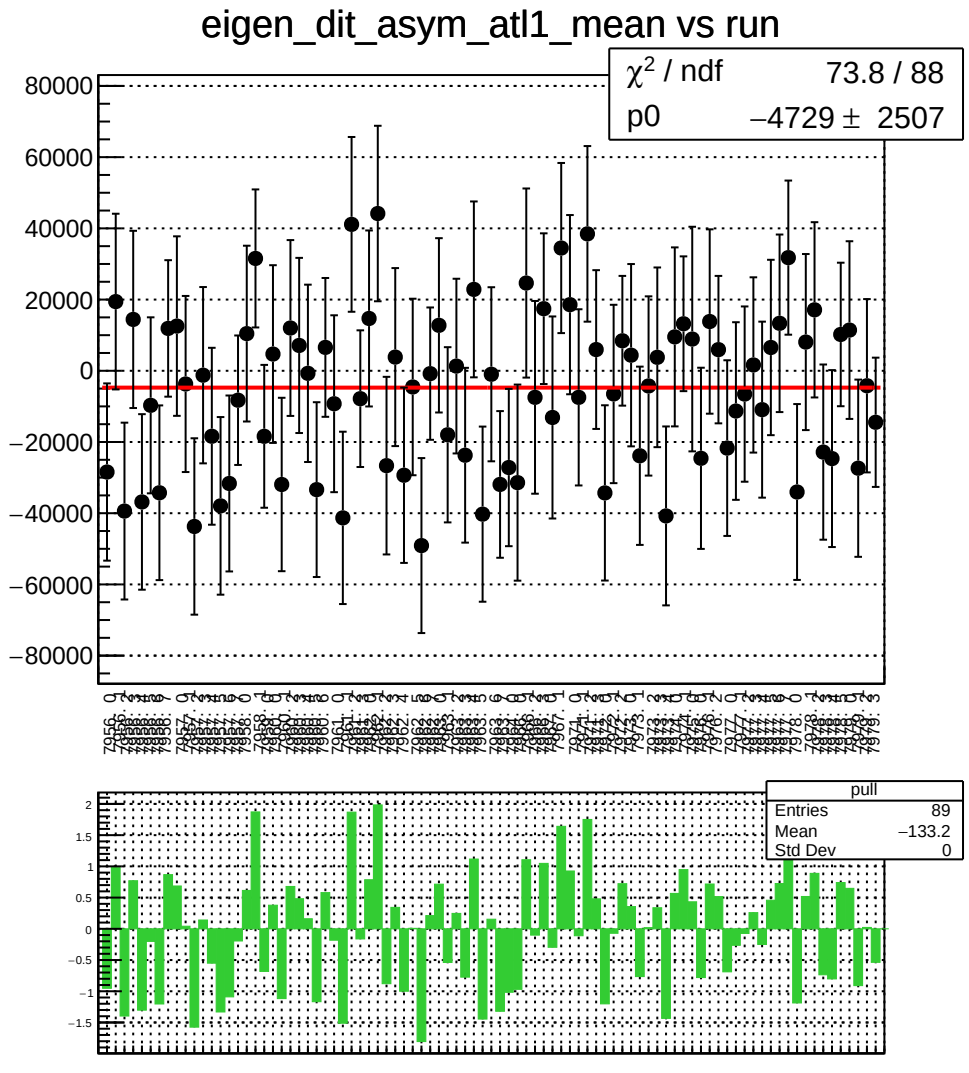

dit_asym_atl1_mean vs run
χ² / ndf 73.8 / 88
p0 −4729 ± 2507
pull
Entries 89
Mean −133.2
Std Dev 0

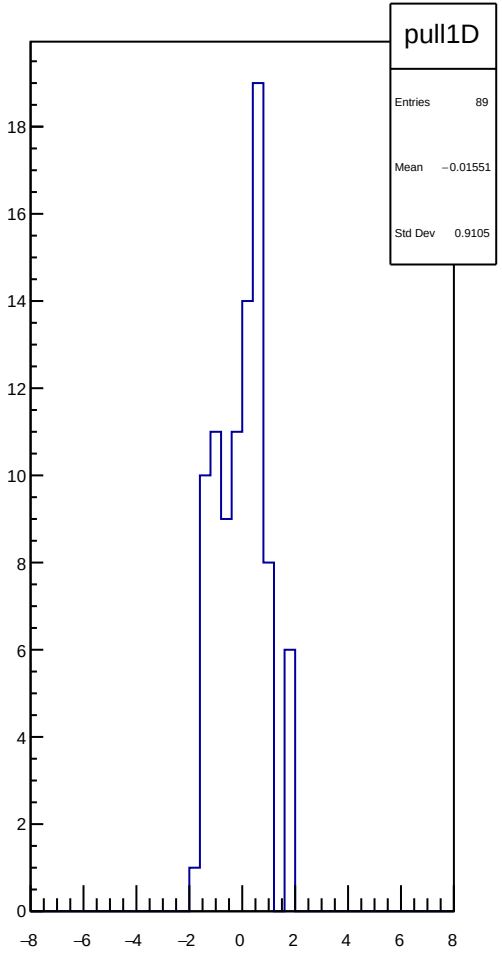

pull1D
Entries 89
Mean −0.01551
Std Dev 0.9105

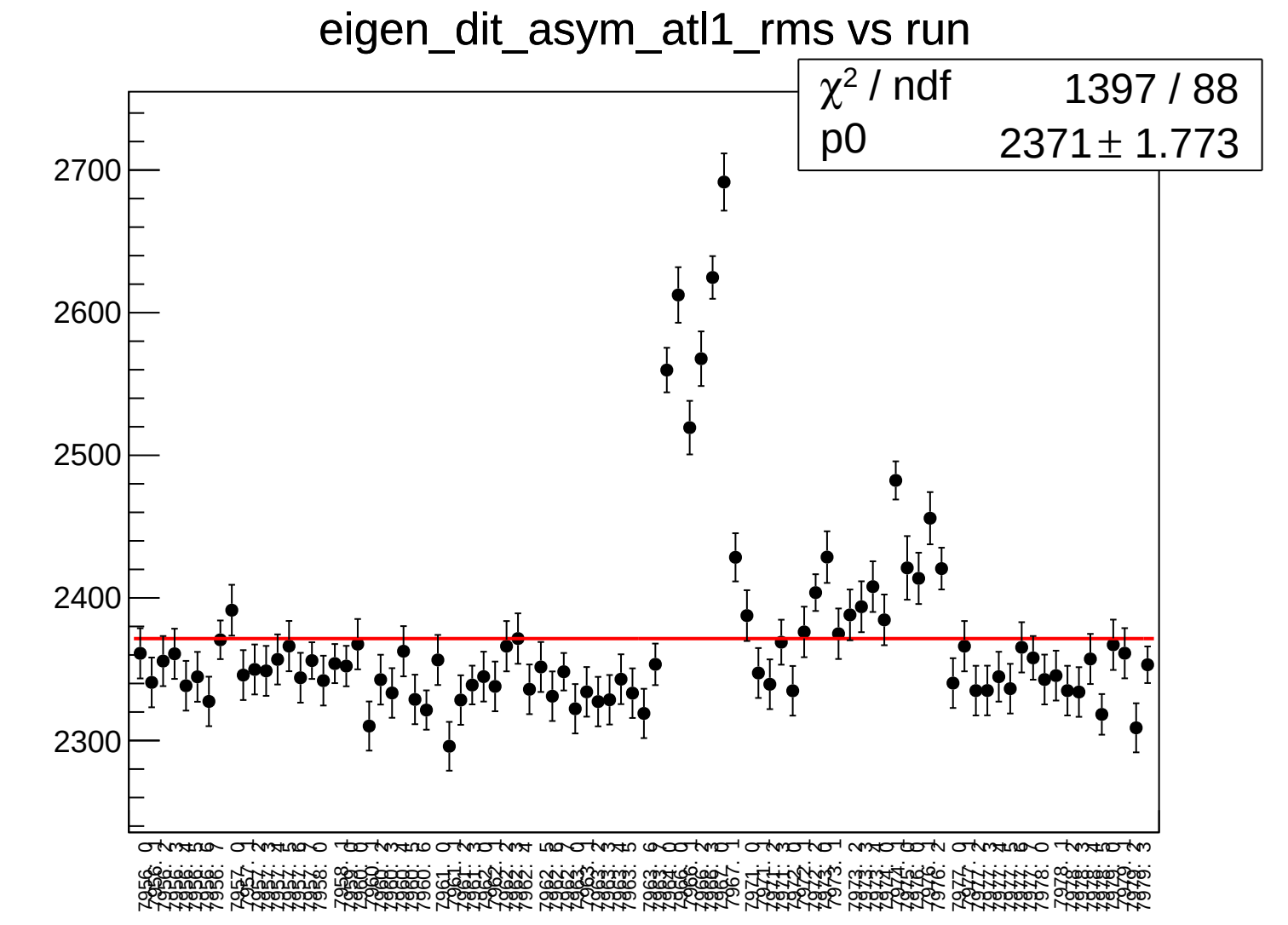

dit_asym_atl1_rms vs run
χ² / ndf 1397 / 88
p0 2371 ± 1.773
2700
2600
2500
2400
2300

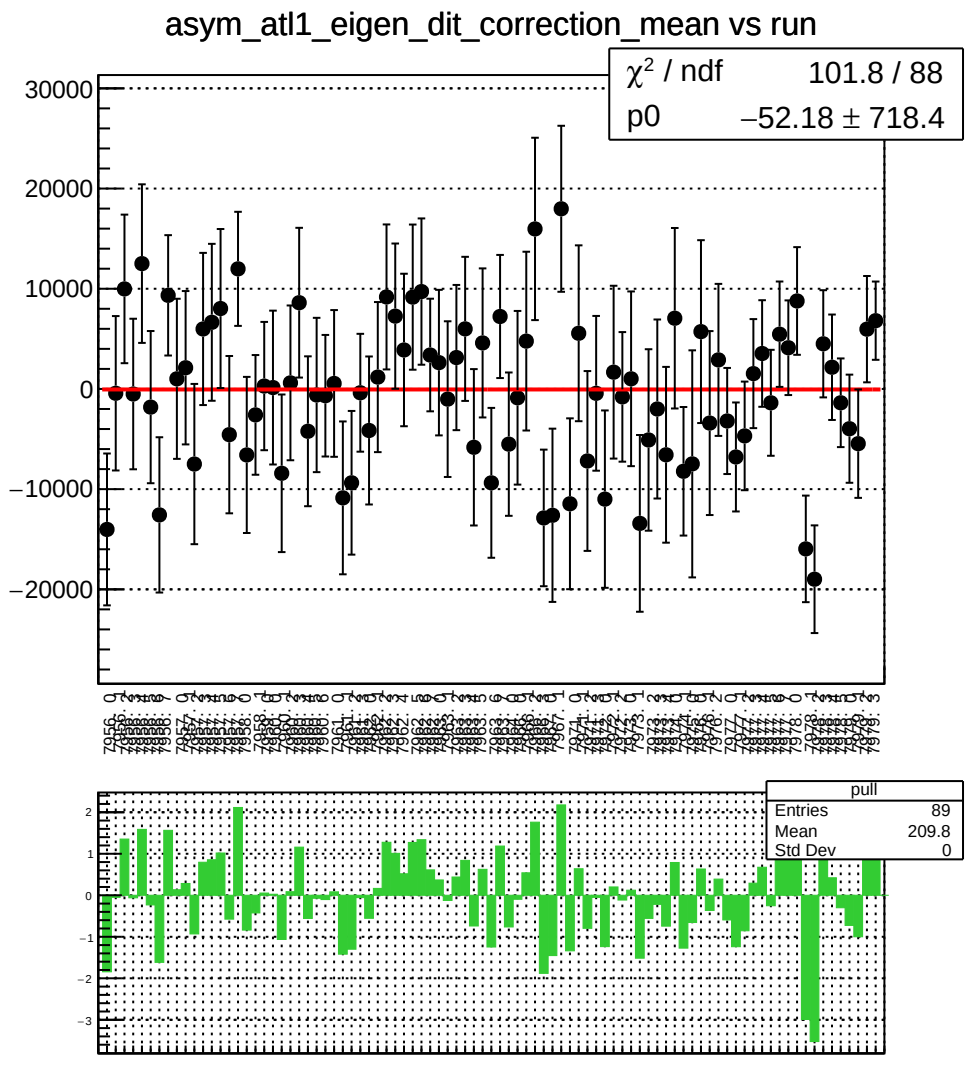

asym_atl1_dit_correction_mean vs run
χ² / ndf 101.8 / 88
p0 −52.19 ± 718.4
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 209.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01815
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

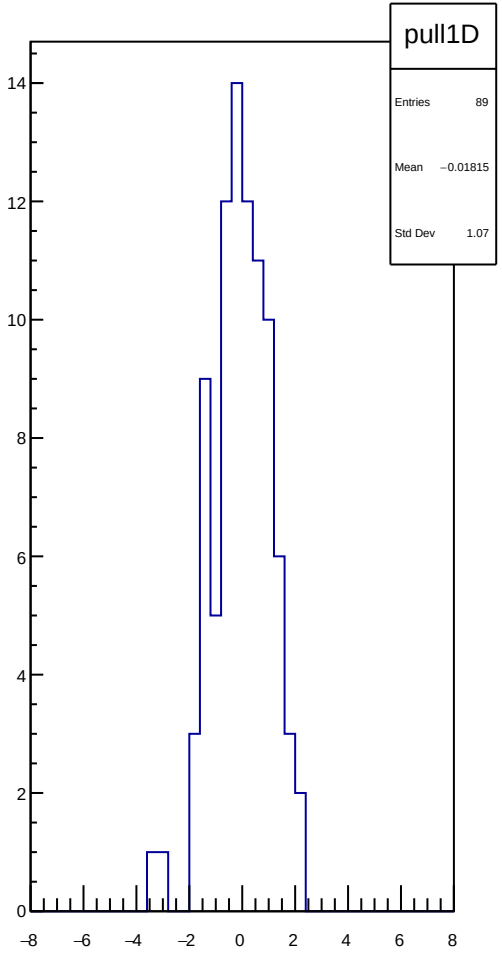

asym_atl1_dit_correction_rms vs run
χ² / ndf 6.318e+04 / 88
p0 667.7 ± 0.508
900
850
800
750
700
650
600
550
500

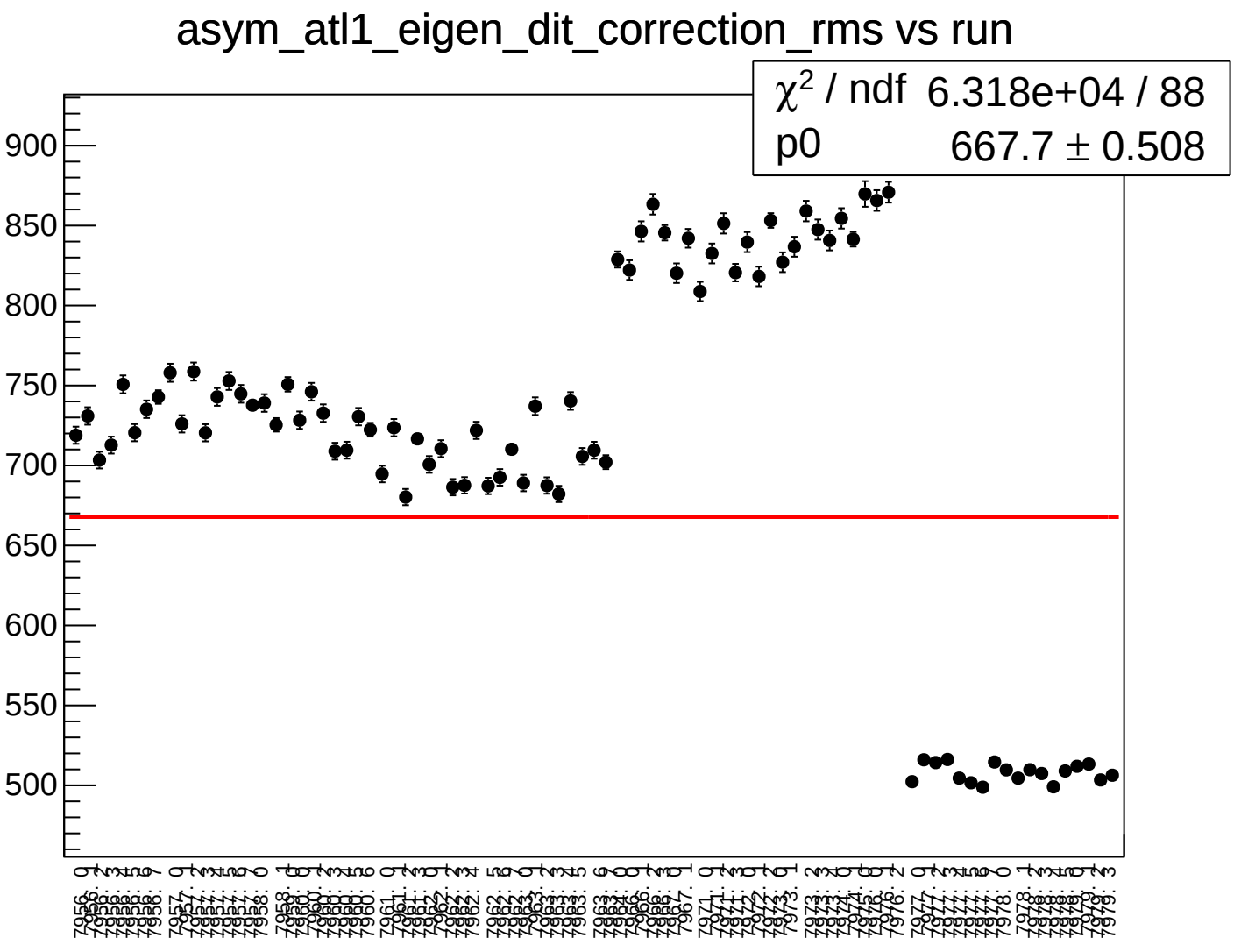

eigen_dit_asym_atl1_mean vs run
χ² / ndf 73.8 / 88
p0 −4729 ± 2507
pull
Entries 89
Mean −133.2
Std Dev 0

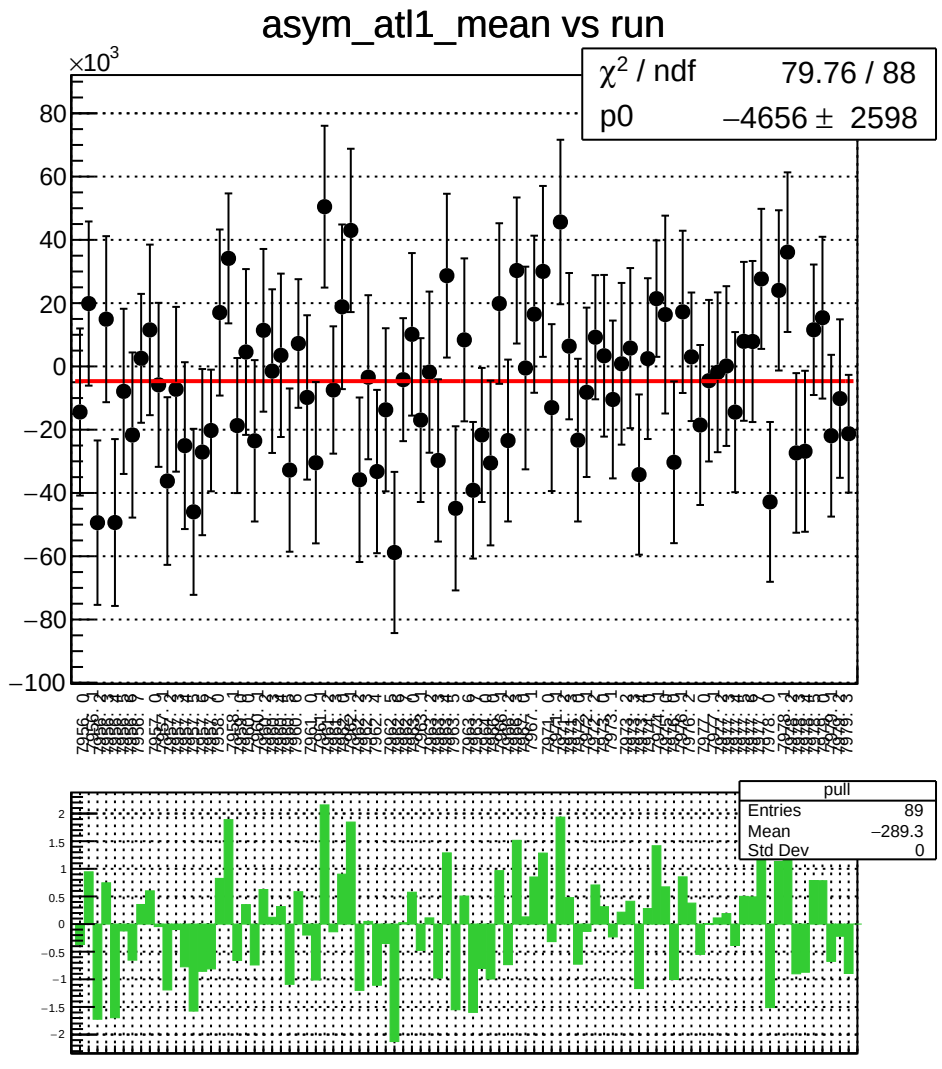

pull1D
Entries 89
Mean −0.01551
Std Dev 0.9105

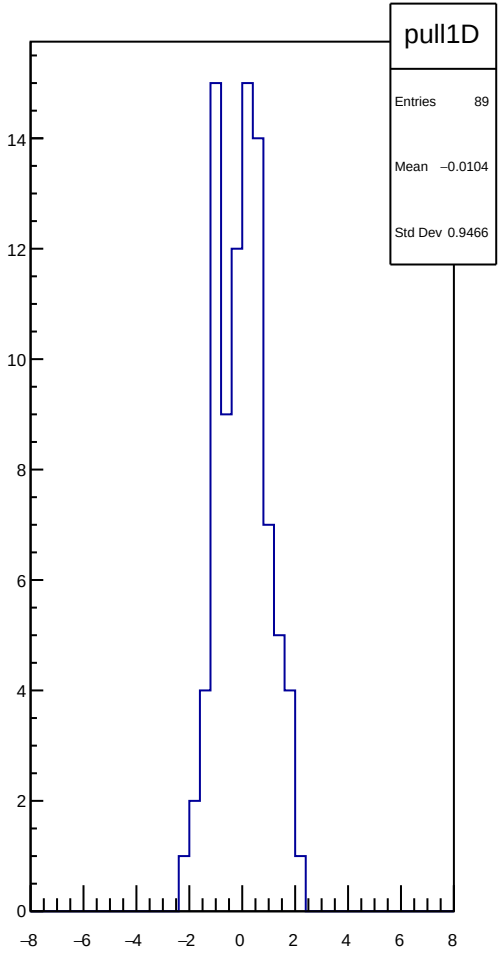

eigen_dit_asym_atl1_rms vs run
χ² / ndf 1397 / 88
p0 2371 ± 1.773
2700
2600
2500
2400
2300

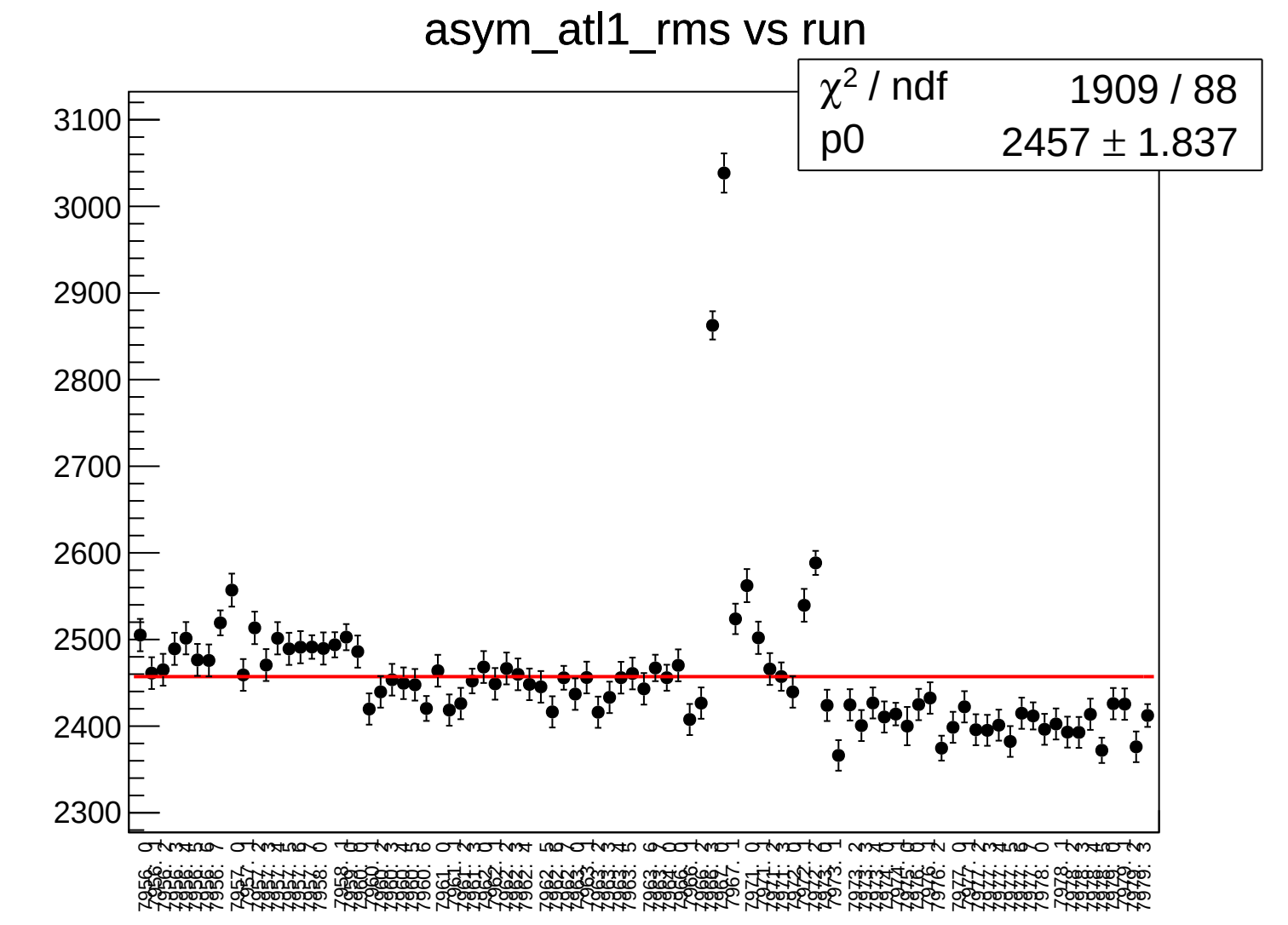

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 101.8 / 88
p0 −52.18 ± 718.4
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 209.8
Std Dev 0
2
1
0
−1
−2
−3

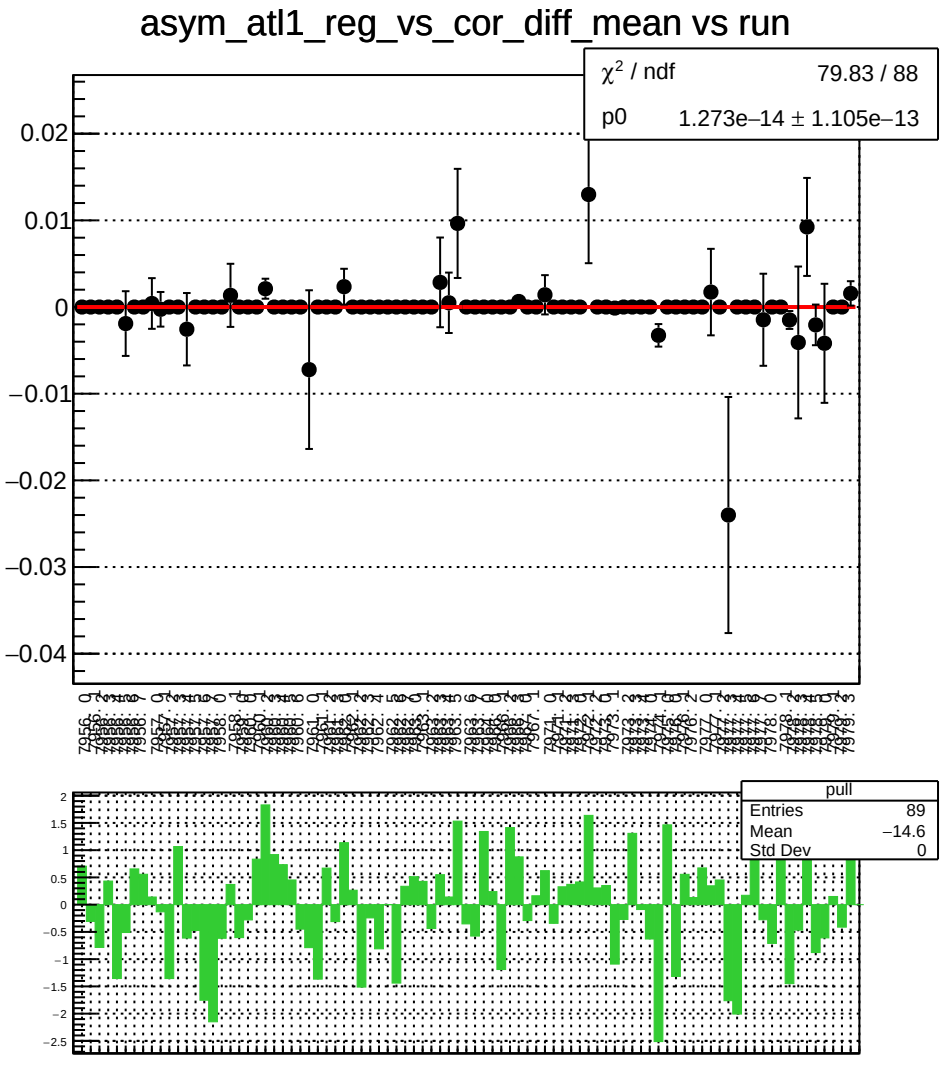

pull1D
Entries 89
Mean −0.01815
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

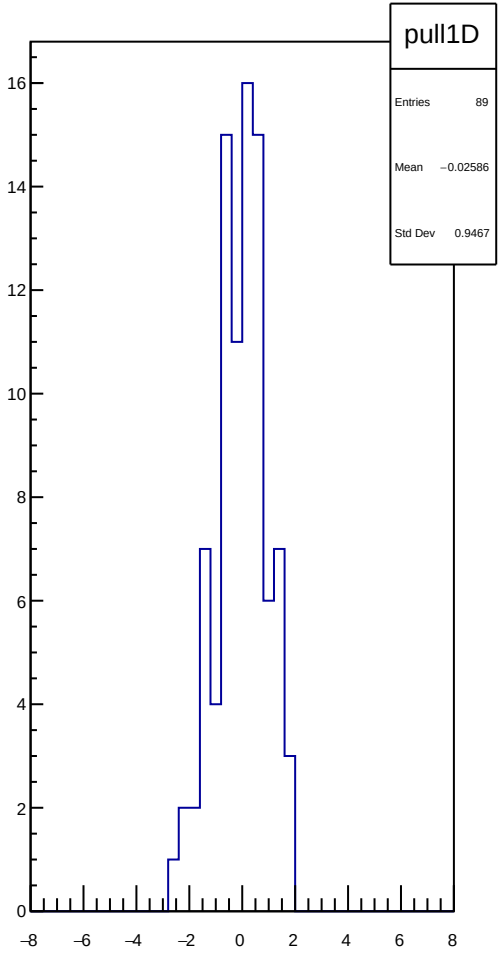

asym_atl1_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 6.318e+04 / 88
p0 667.7 ± 0.508
900
850
800
750
700
650
600
550
500

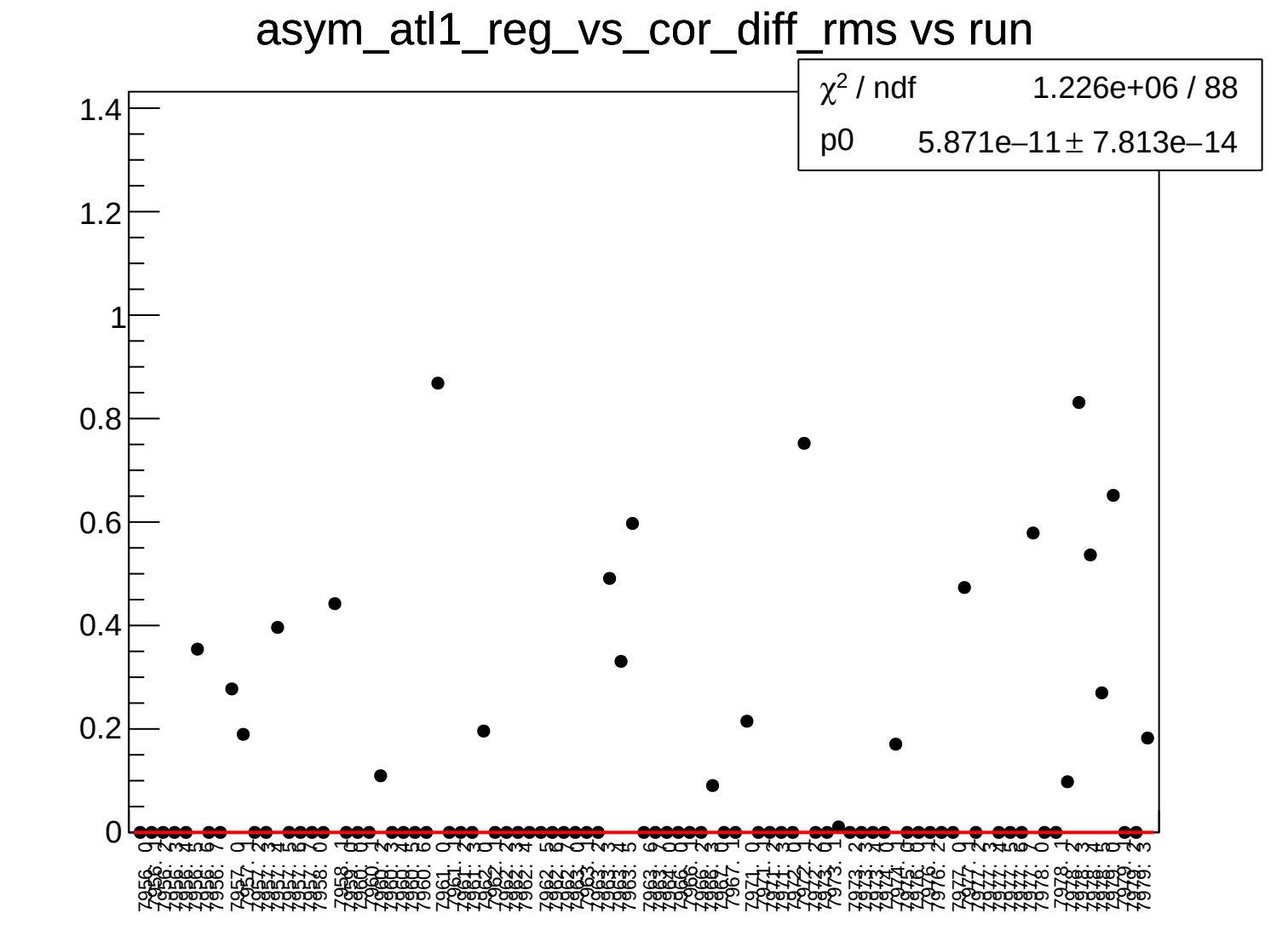

asym_atl1_mean vs run
×10^3
χ^2 / ndf 79.76 / 88
p0 −4656 ± 2598
pull
Entries 89
Mean −289.3
Std Dev 0

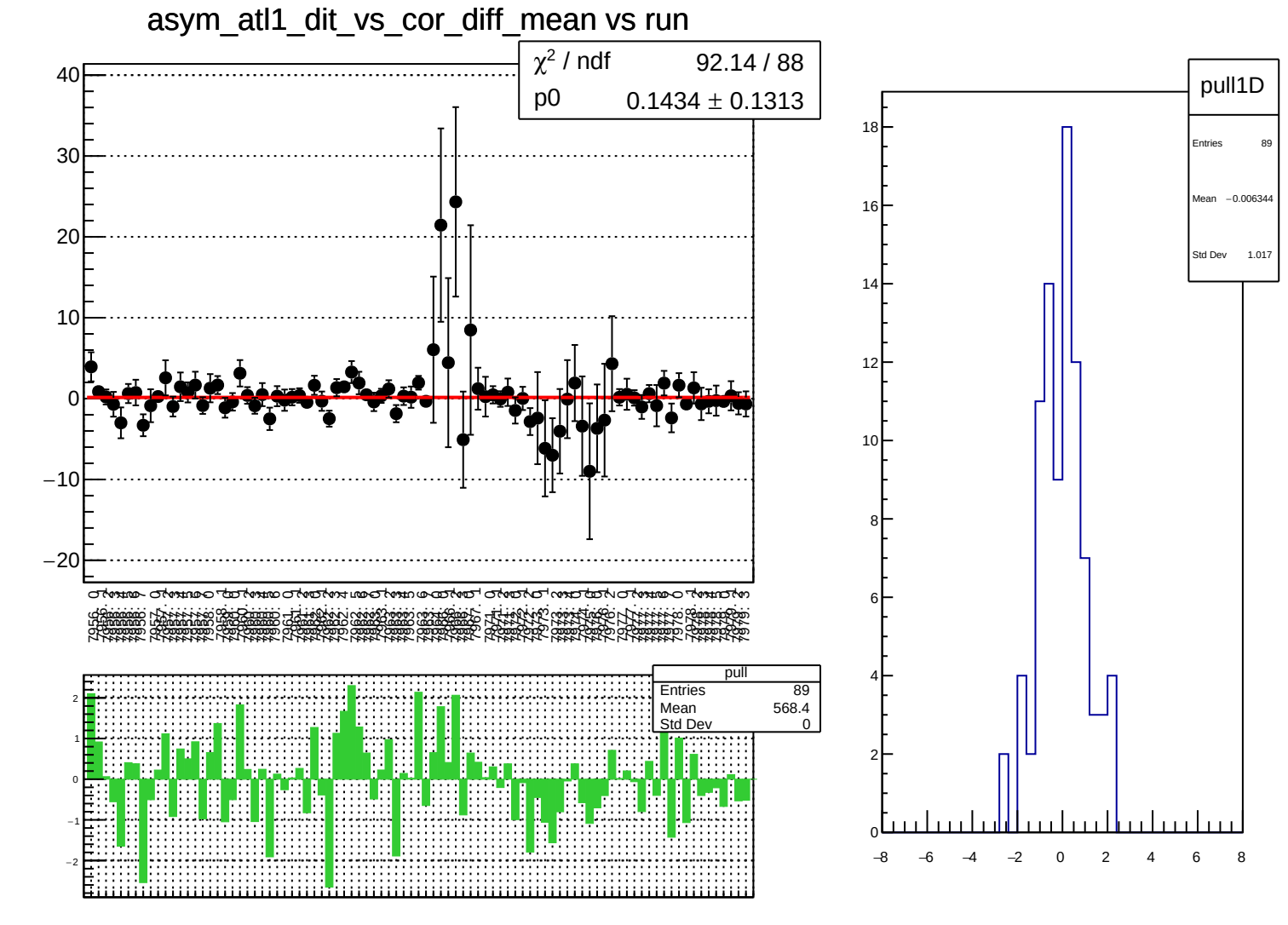

pull1D
Entries 89
Mean −0.0104
Std Dev 0.9466

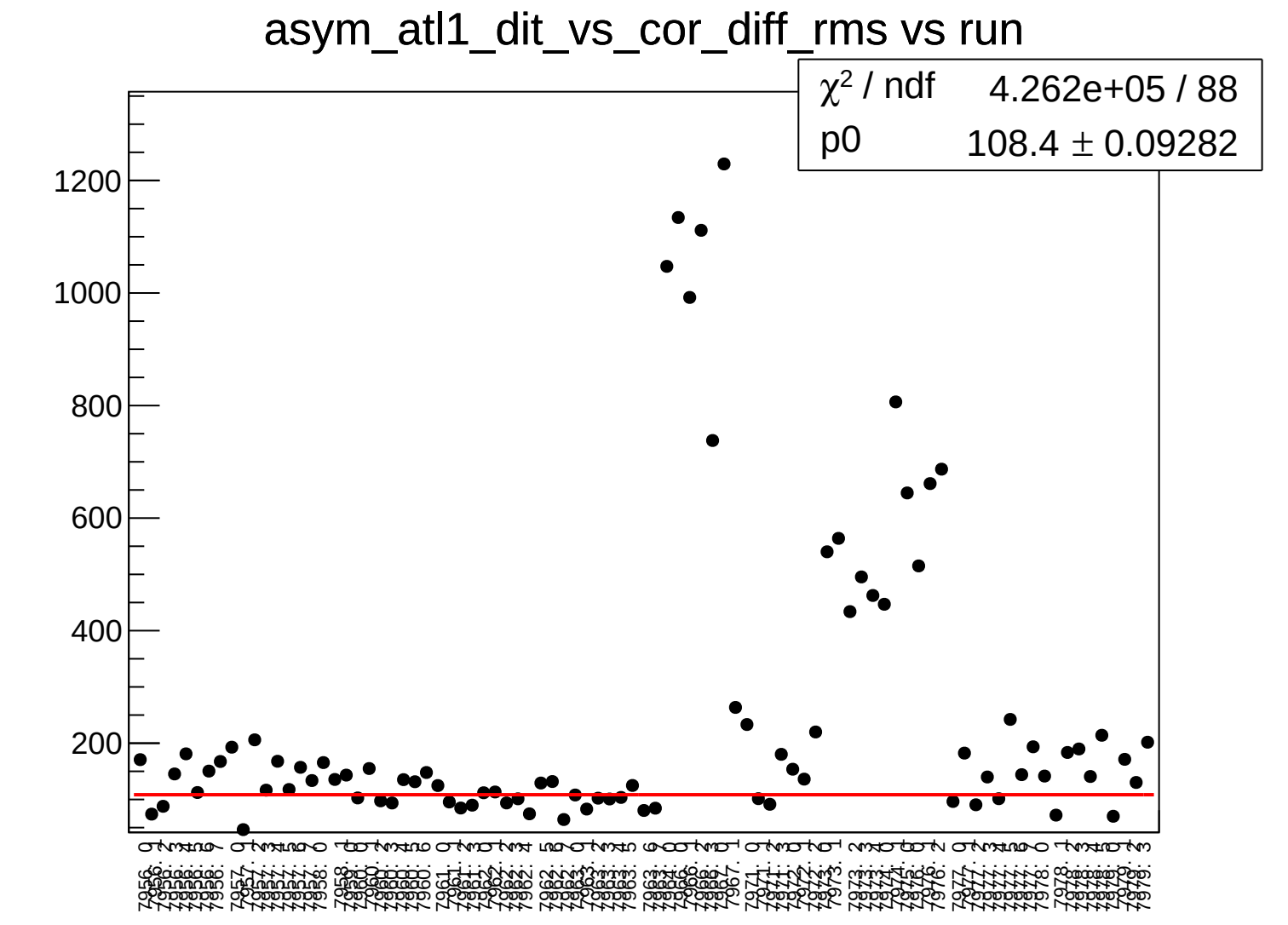

asym_atl1_rms vs run
$\chi^2$ / ndf 1909 / 88
p0 2457 ± 1.837
3100
3000
2900
2800
2700
2600
2500
2400
2300

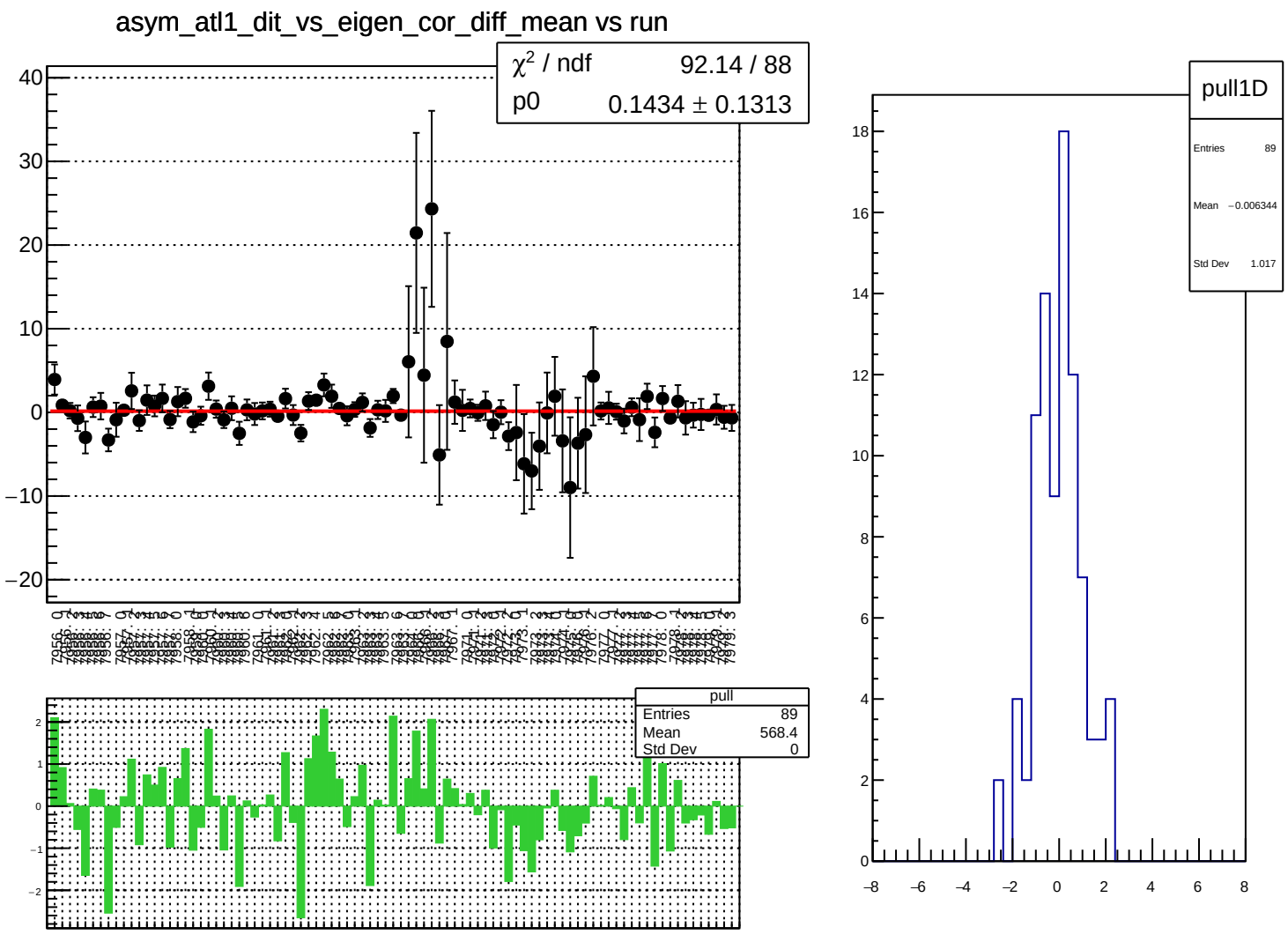

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 79.83 / 88
p0 1.273e−14 ± 1.105e−13
pull
Entries 89
Mean −14.6
Std Dev 0

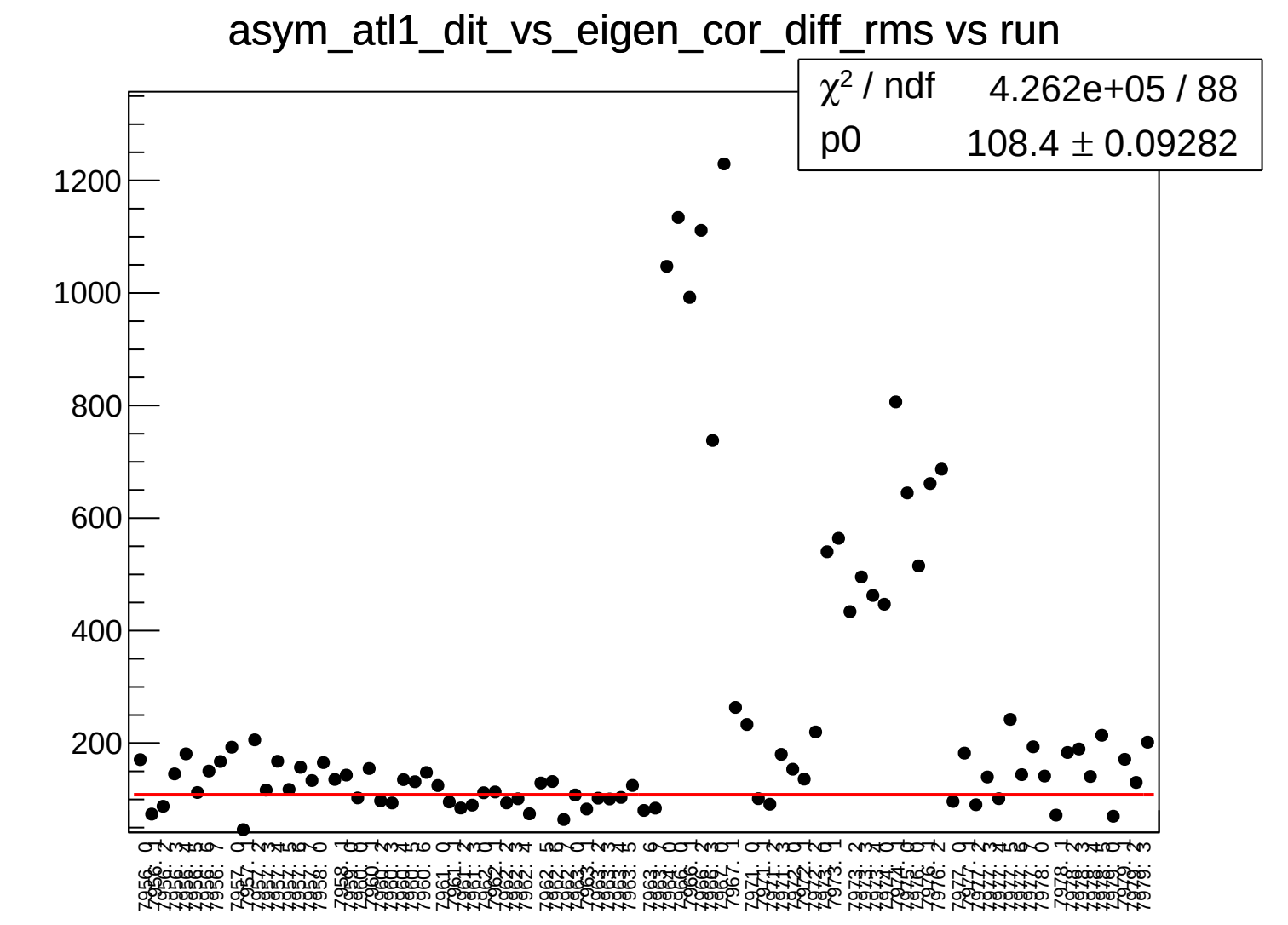

pull1D
Entries 89
Mean −0.02586
Std Dev 0.9467

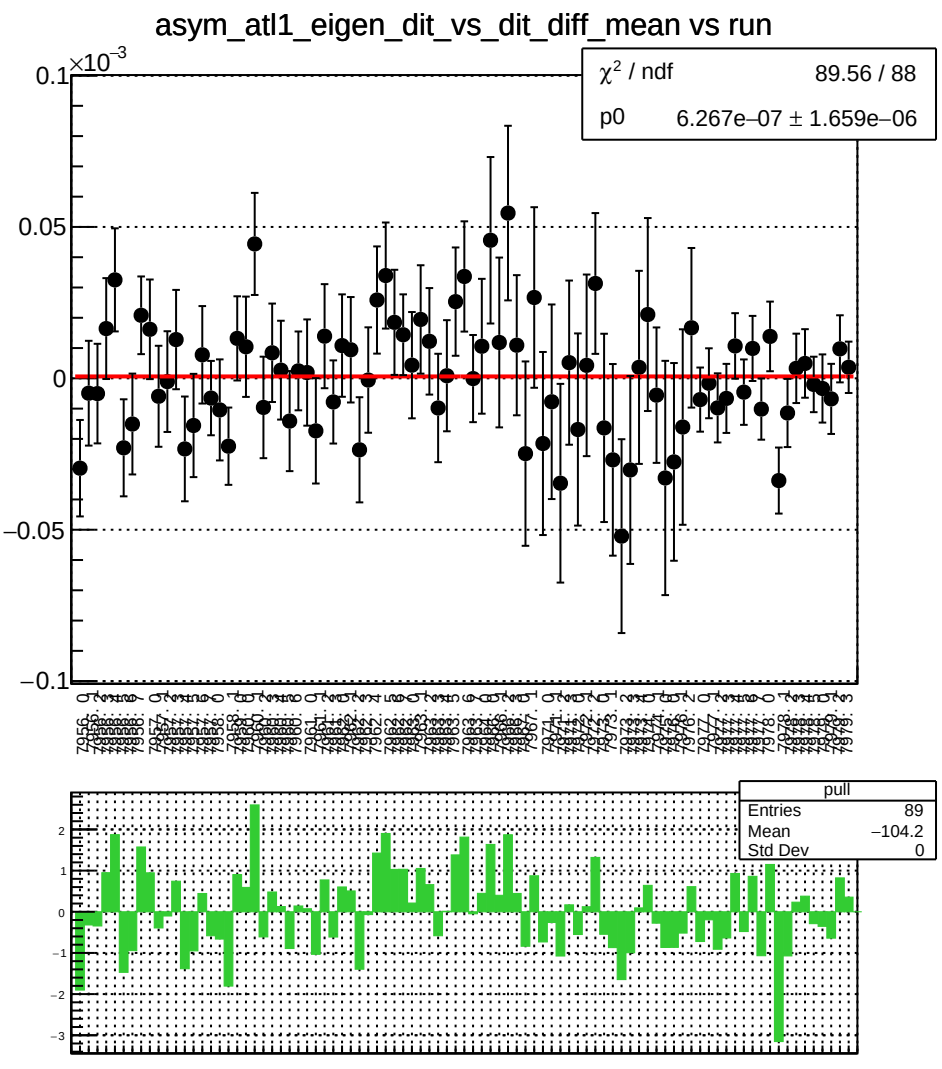

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.226e+06 / 88
p0 5.871e−11 ± 7.813e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

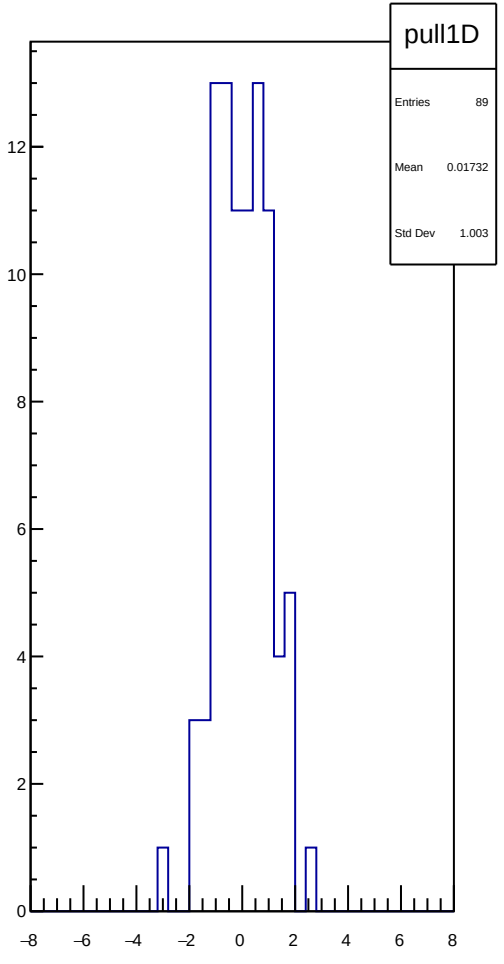

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 92.14 / 88
p0 0.1434 ± 0.1313
pull
Entries 89
Mean 568.4
Std Dev 0
pull1D
Entries 89
Mean −0.006344
Std Dev 1.017

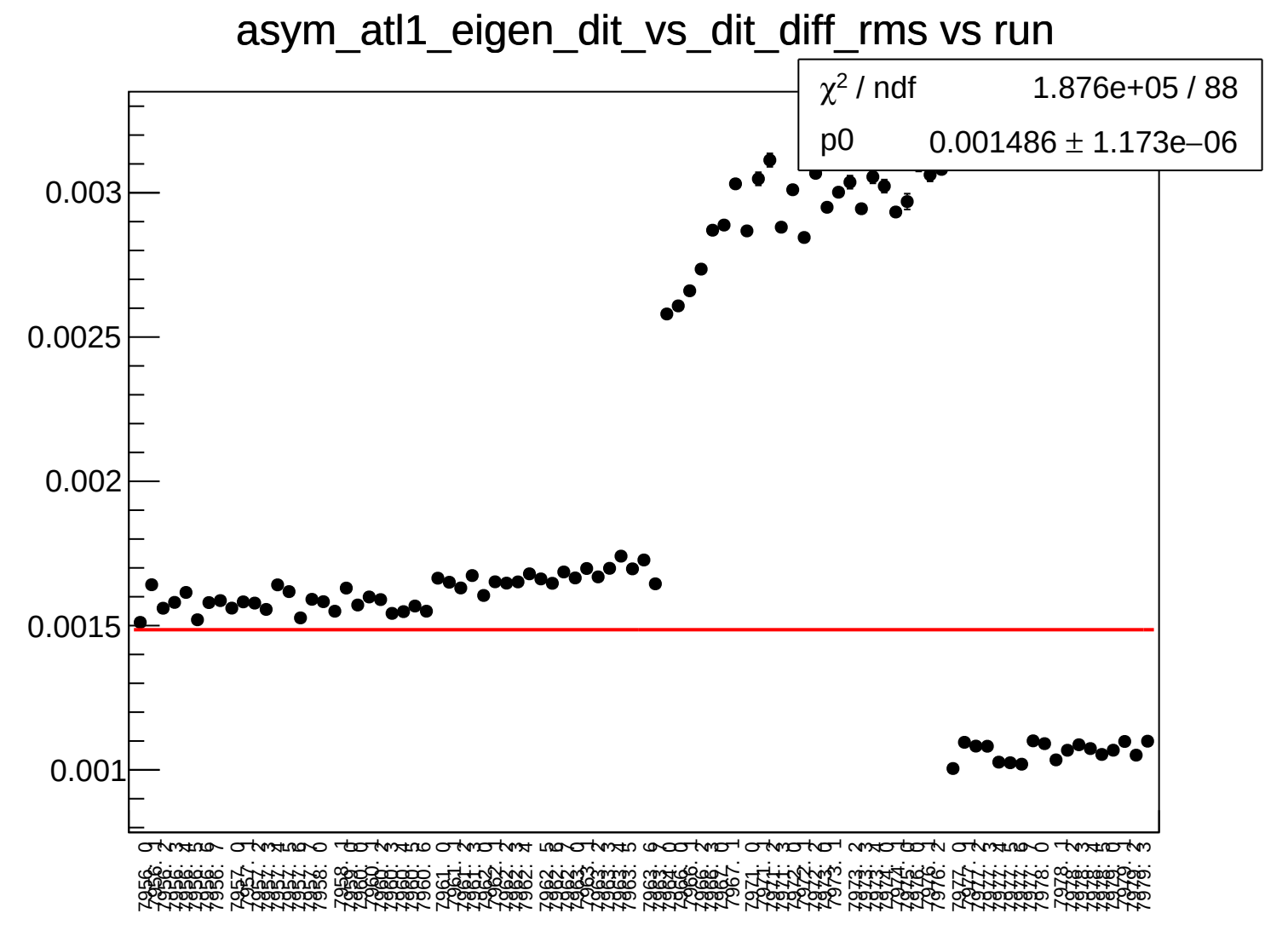

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 4.262e+05 / 88
p0 108.4 ± 0.09282
1200
1000
800
600
400
200

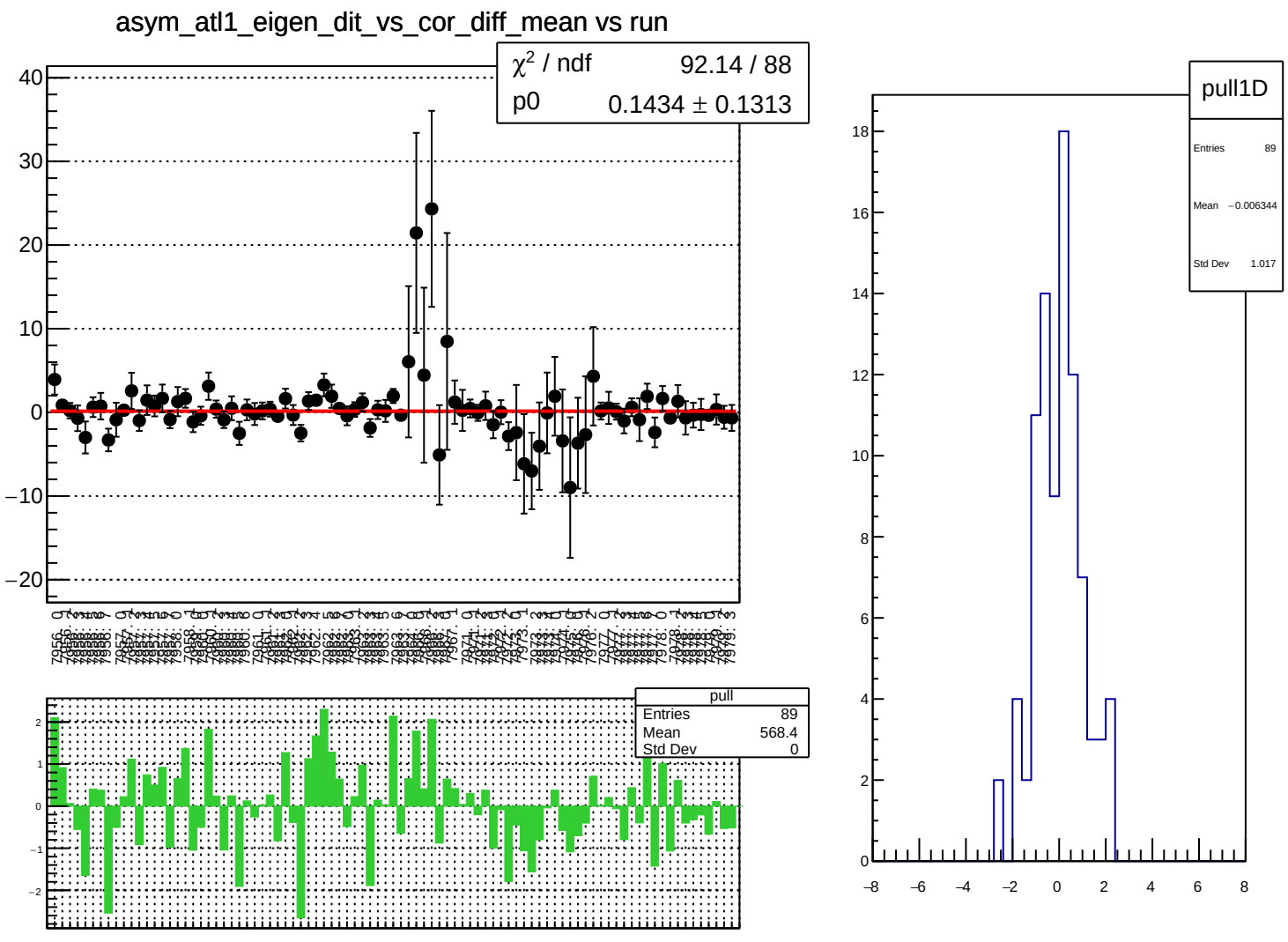

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.14 / 88
p0 0.1434 ± 0.1313
pull
Entries 89
Mean 568.4
Std Dev 0
pull1D
Entries 89
Mean −0.006344
Std Dev 1.017

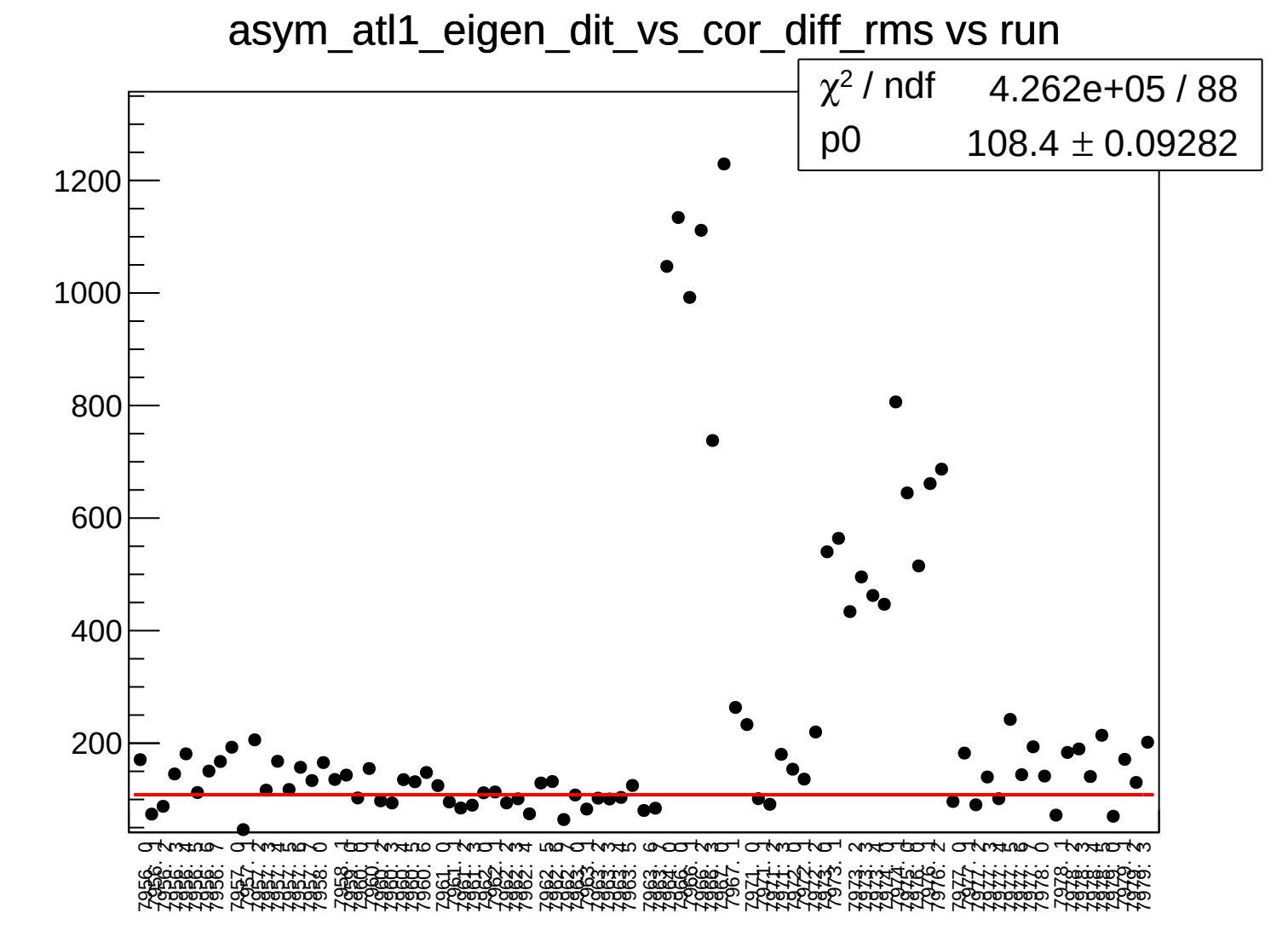

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.262e+05 / 88
p0 108.4 ± 0.09282
1200
1000
800
600
400
200

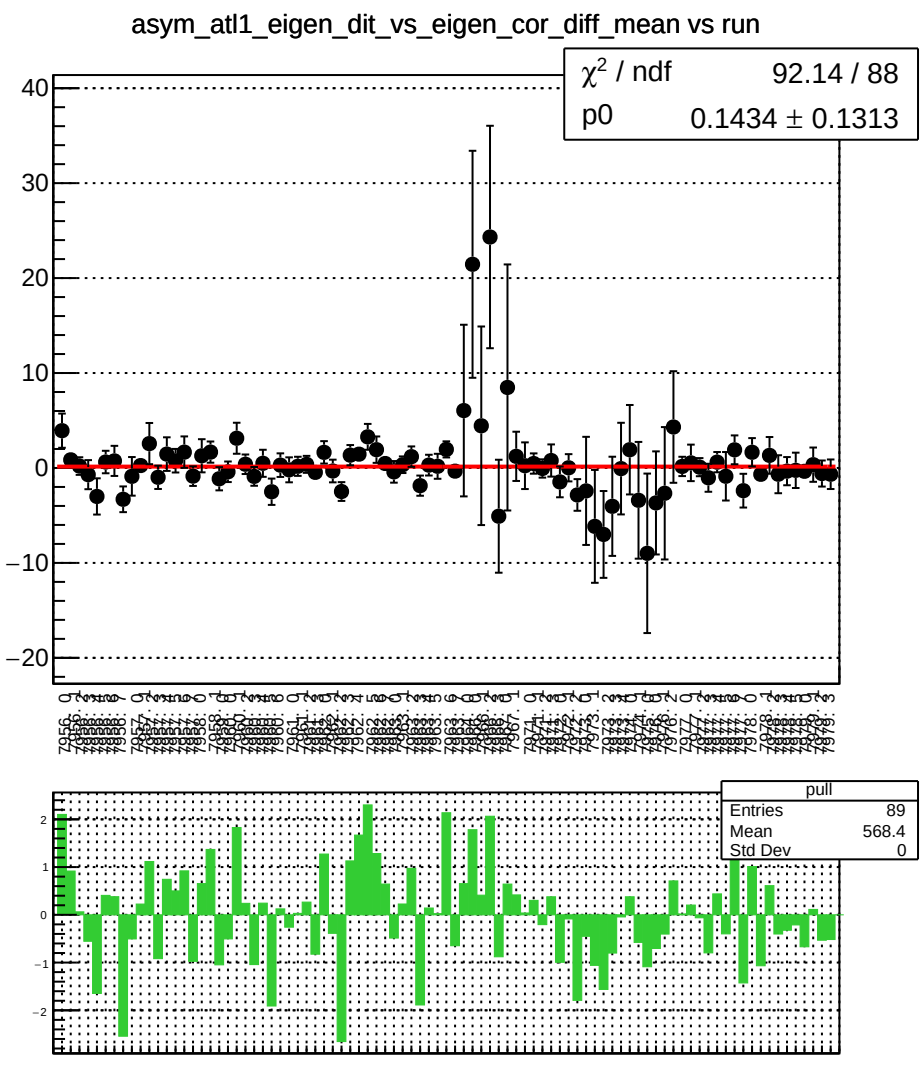

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
0.1
0.05
0
−0.05
−0.1
χ² / ndf 89.56 / 88
p0 6.267e−07 ± 1.659e−06
pull
Entries 89
Mean −104.2
Std Dev 0
2
1
0
−1
−2
−3

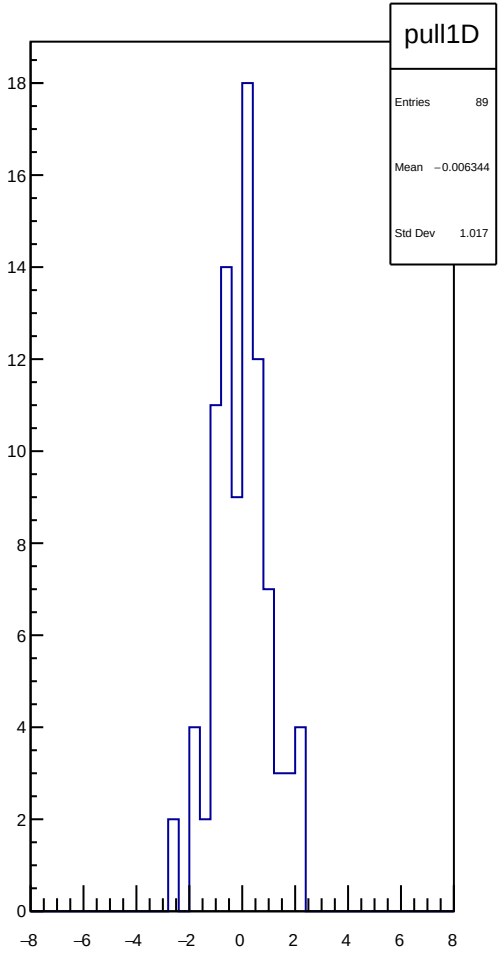

pull1D
Entries 89
Mean 0.01732
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

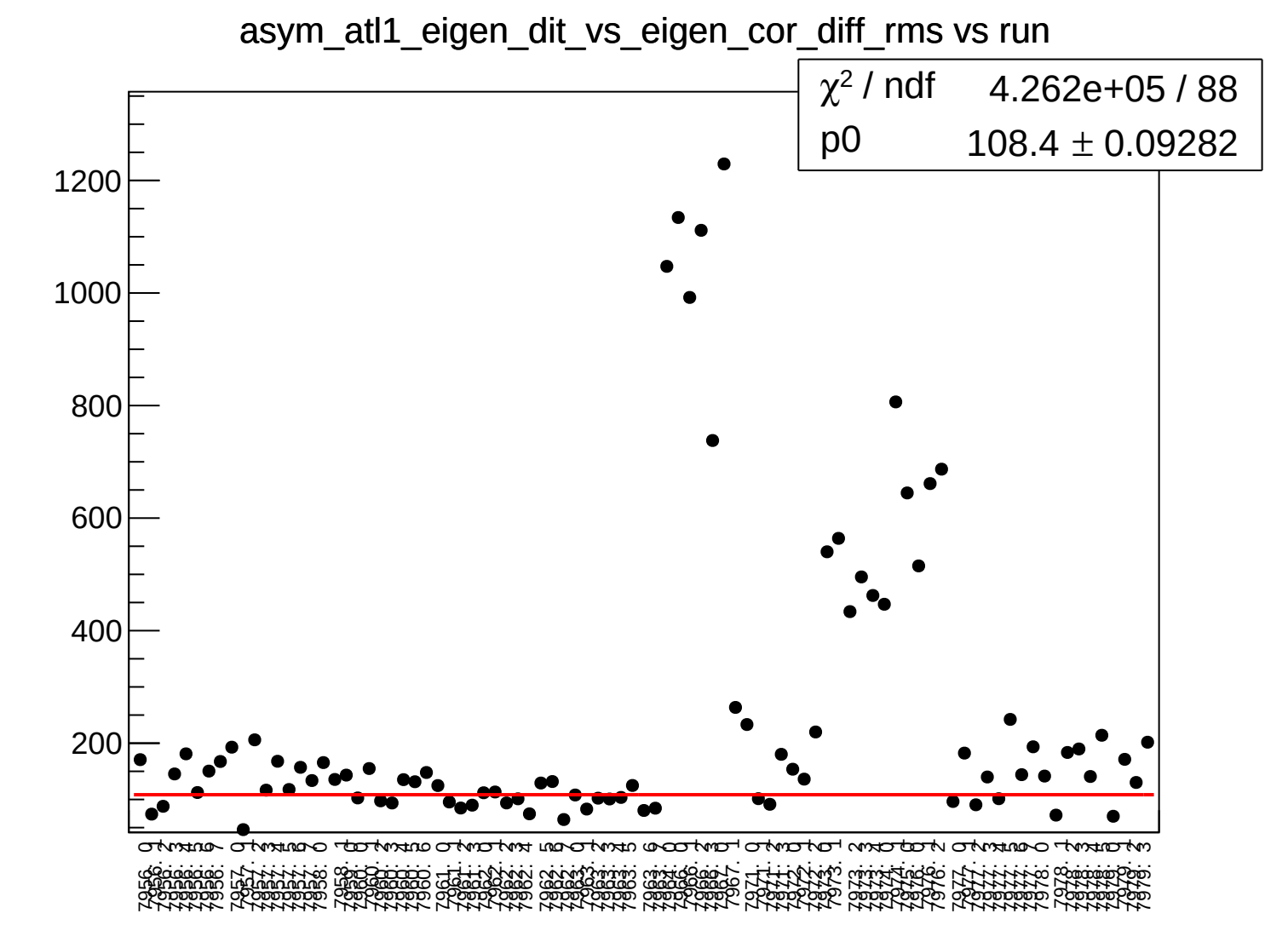

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.876e+05 / 88
p0 0.001486 ± 1.173e−06
0.003
0.0025
0.002
0.0015
0.001

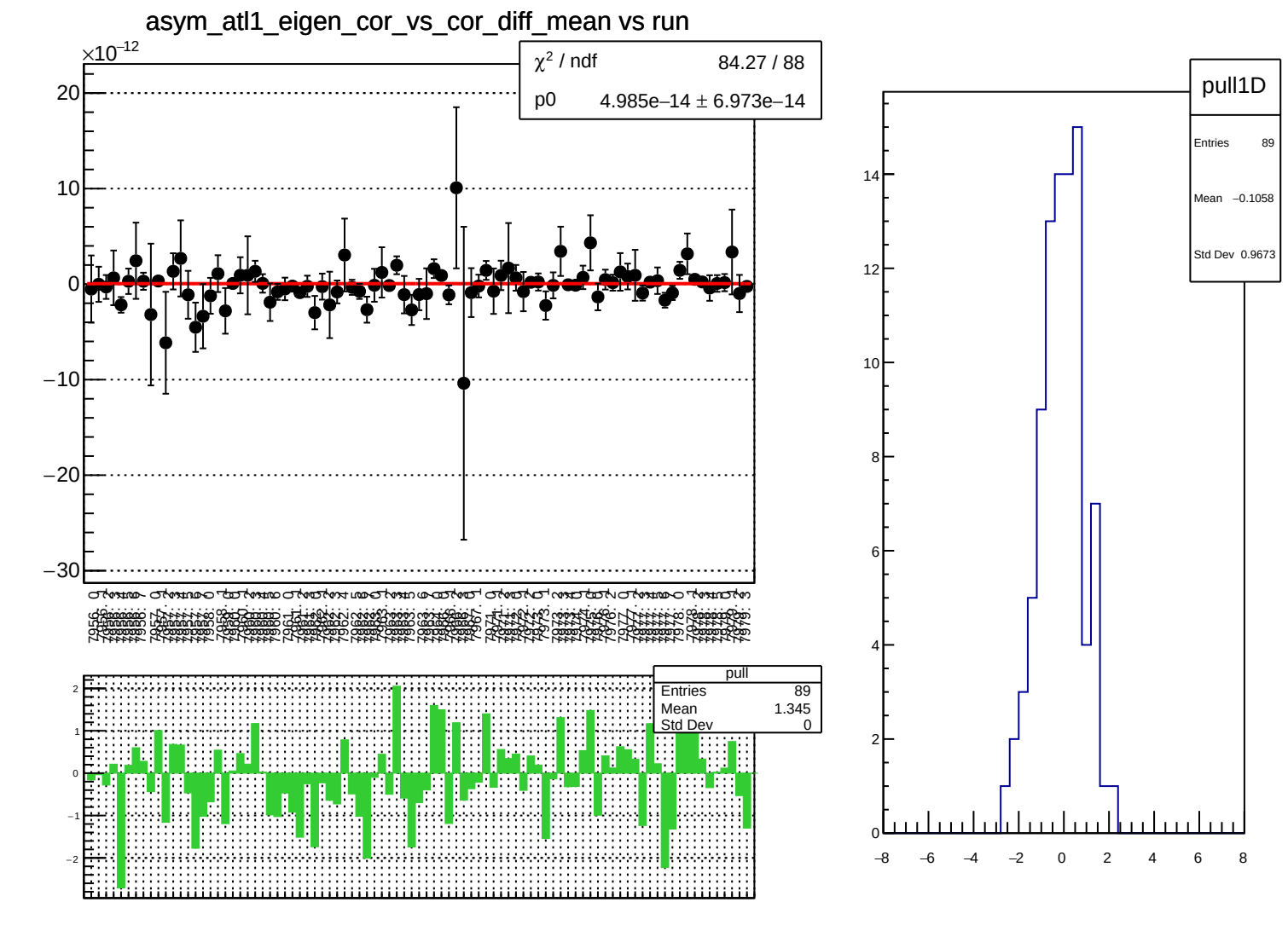

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.14 / 88
p0 0.1434 ± 0.1313
pull
Entries 89
Mean 568.4
Std Dev 0
pull1D
Entries 89
Mean −0.006344
Std Dev 1.017

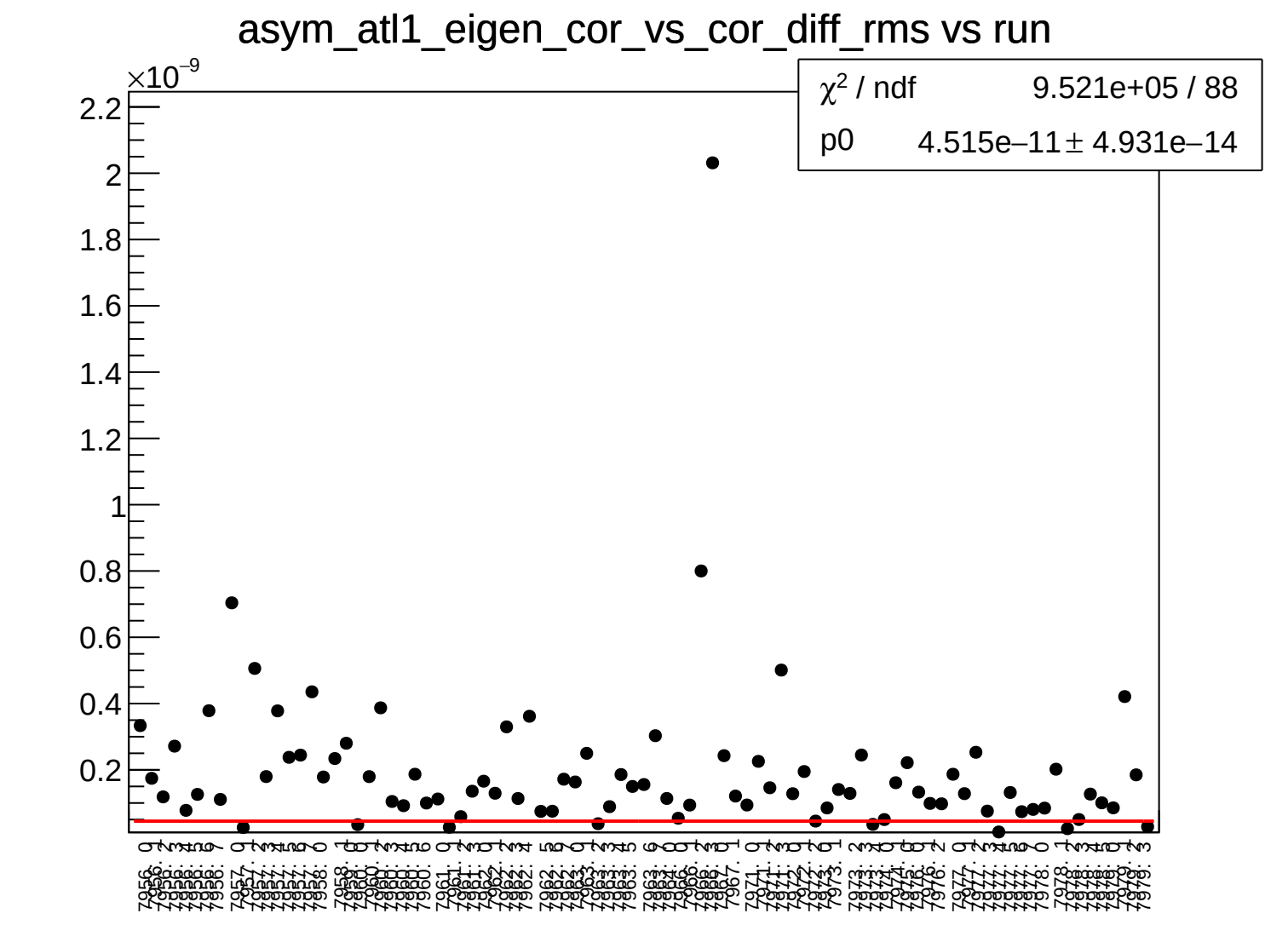

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.262e+05 / 88
p0 108.4 ± 0.09282
1200
1000
800
600
400
200

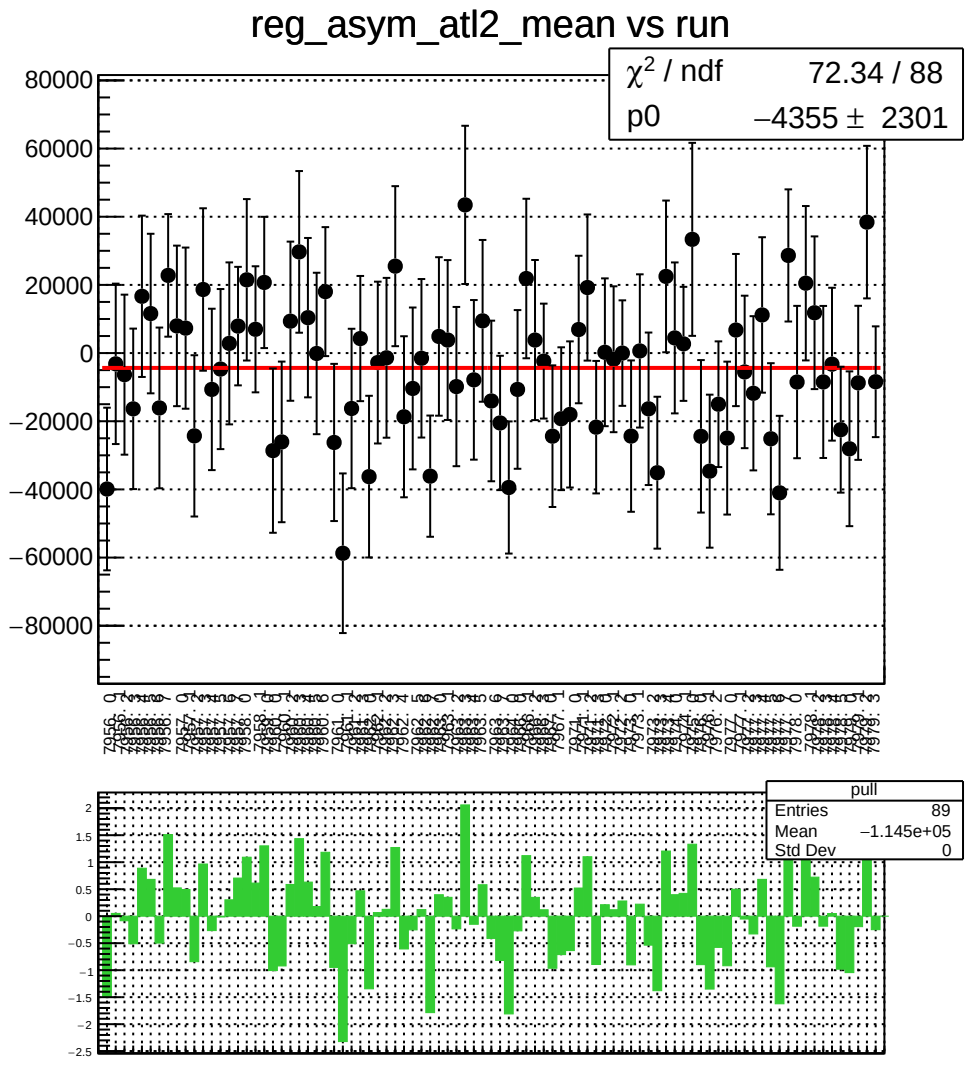

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.14 / 88
p0 0.1434 ± 0.1313
pull
Entries 89
Mean 568.4
Std Dev 0

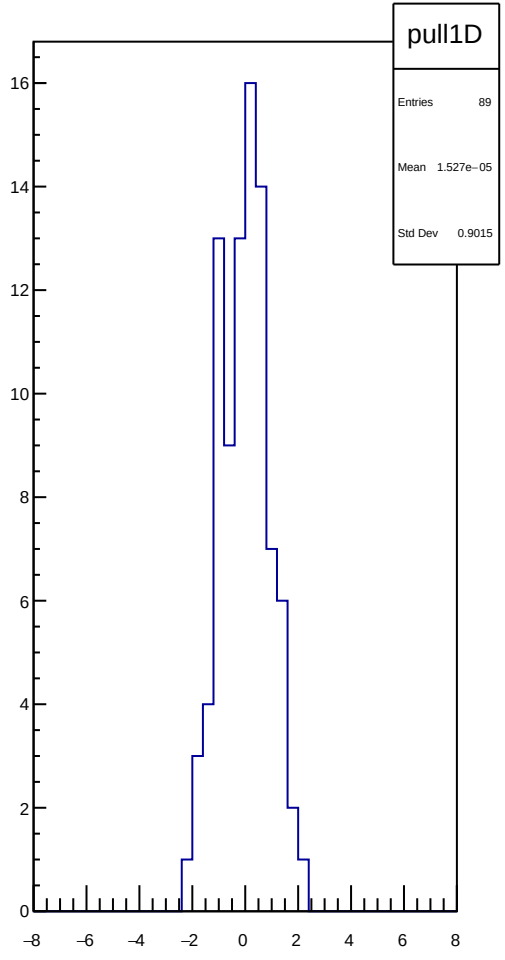

pull1D
Entries 89
Mean −0.006344
Std Dev 1.017

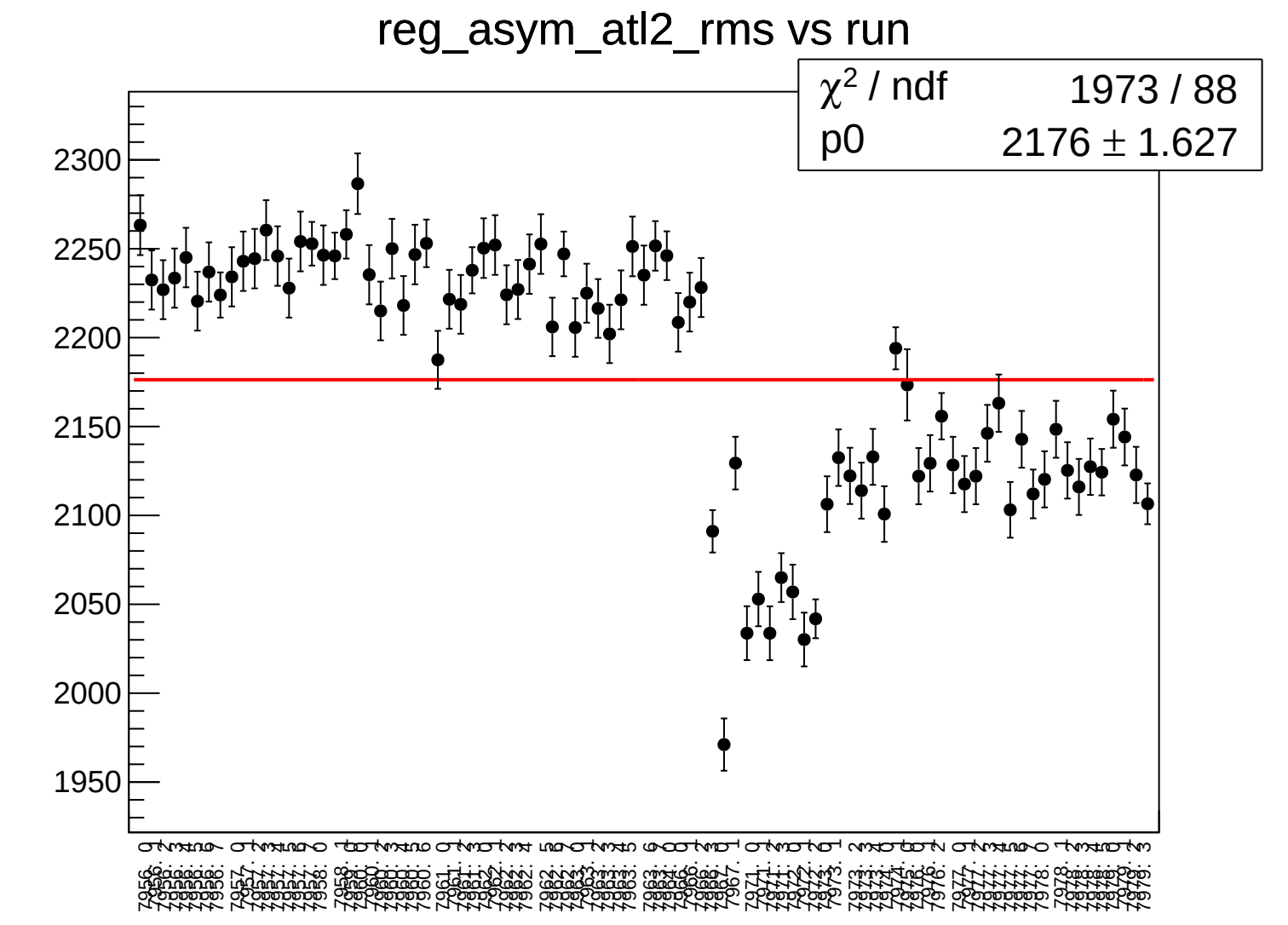

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.262e+05 / 88
p0 108.4 ± 0.09282
1200
1000
800
600
400
200

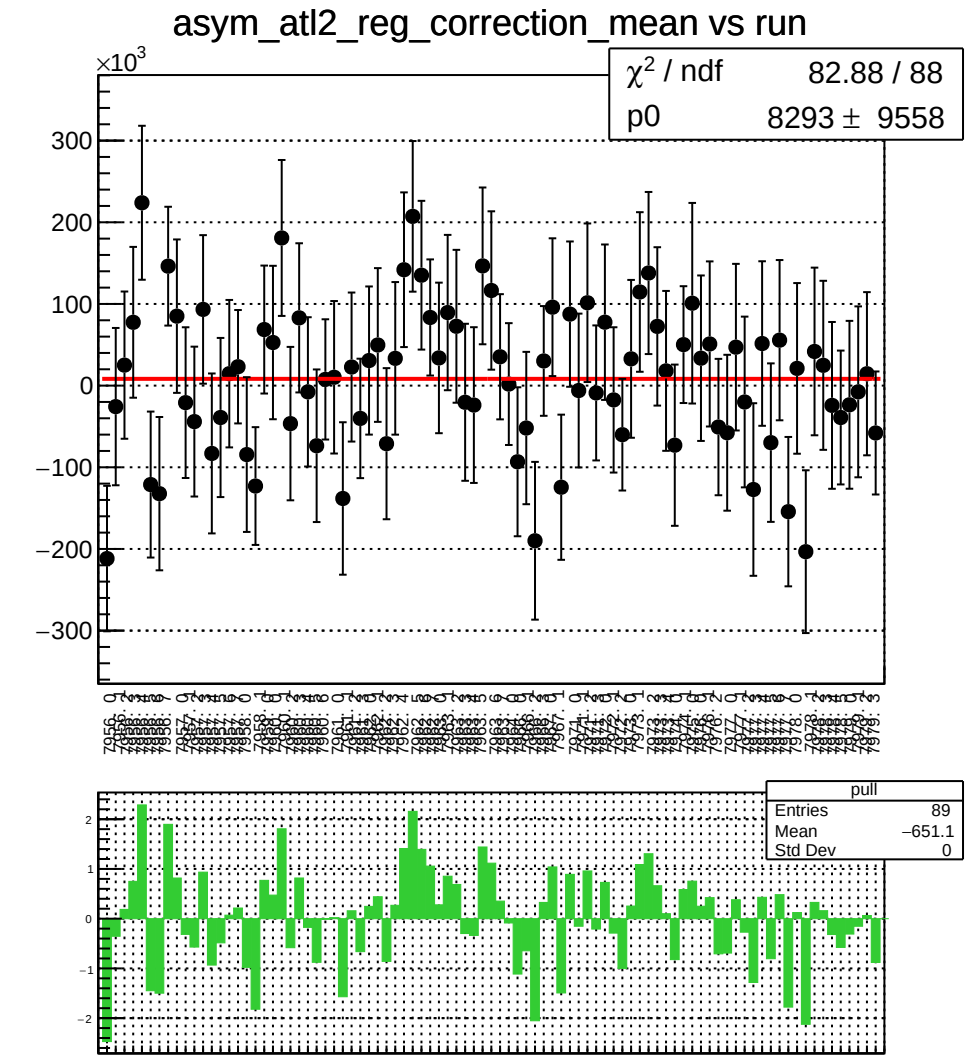

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.27 / 88
p0 4.985e−14 ± 6.973e−14
20
10
0
−10
−20
−30
pull
Entries 89
Mean 1.345
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.1058
Std Dev 0.9673
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

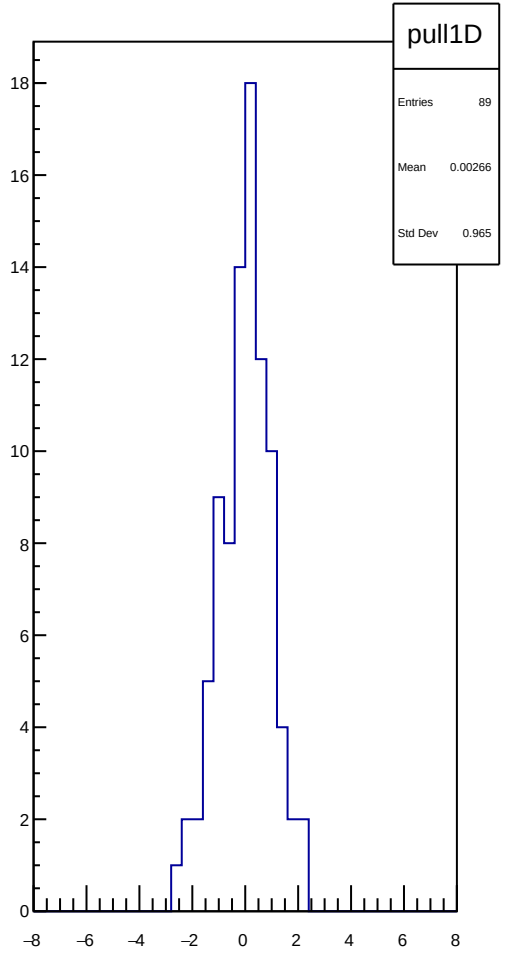

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 9.521e+05 / 88
p0 4.515e−11 ± 4.931e−14

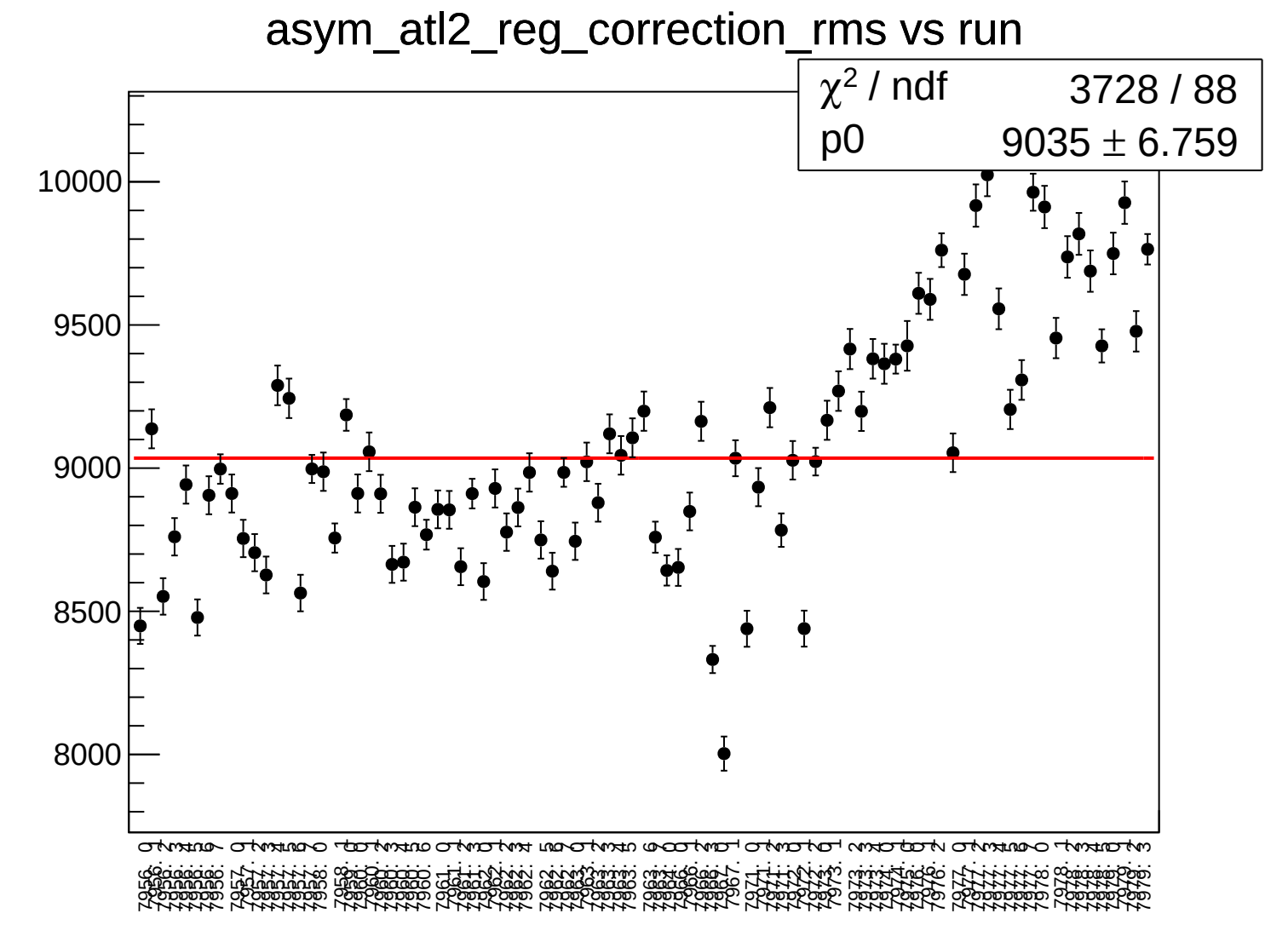

reg_asym_atl2_mean vs run
χ² / ndf 72.34 / 88
p0 −4355 ± 2301
pull
Entries 89
Mean −1.145e+05
Std Dev 0

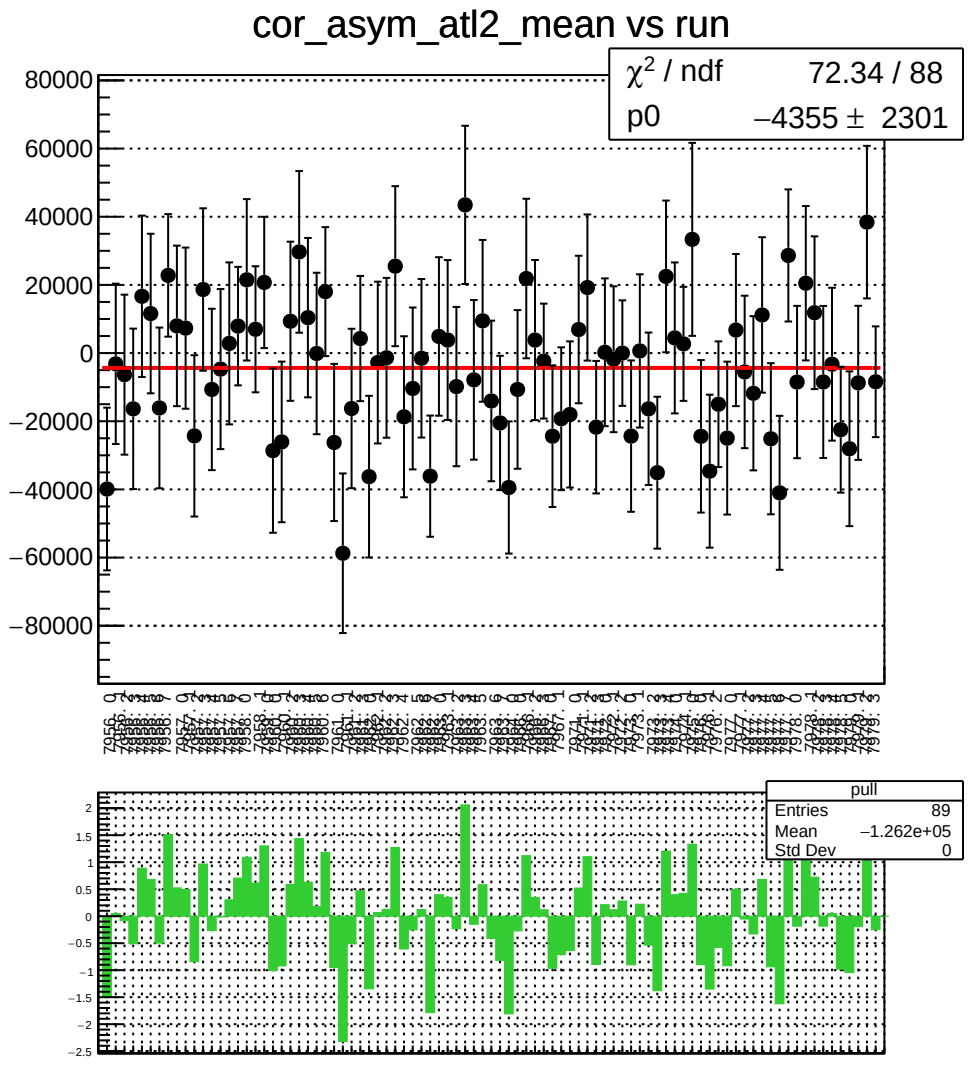

pull1D
Entries 89
Mean 1.527e−05
Std Dev 0.9015

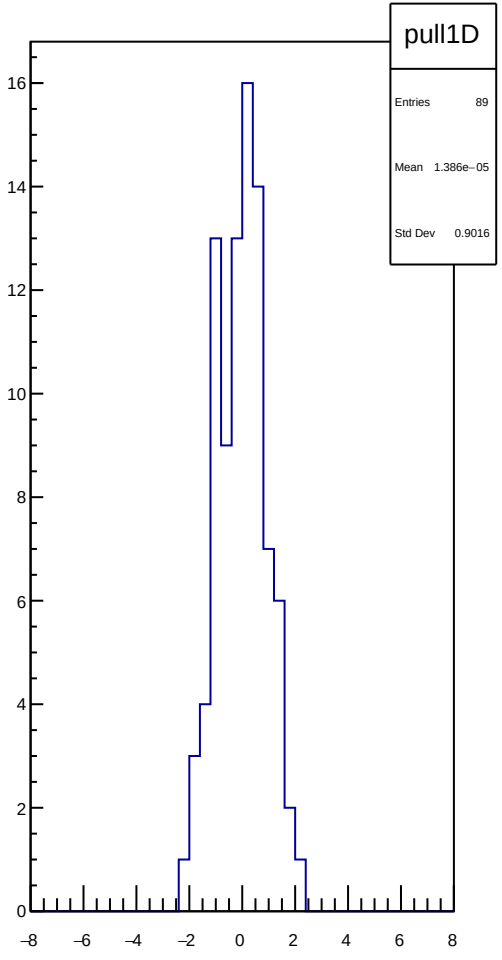

reg_asym_atl2_rms vs run
$\chi^2$ / ndf 1973 / 88
p0 2176 ± 1.627
2300
2250
2200
2150
2100
2050
2000
1950

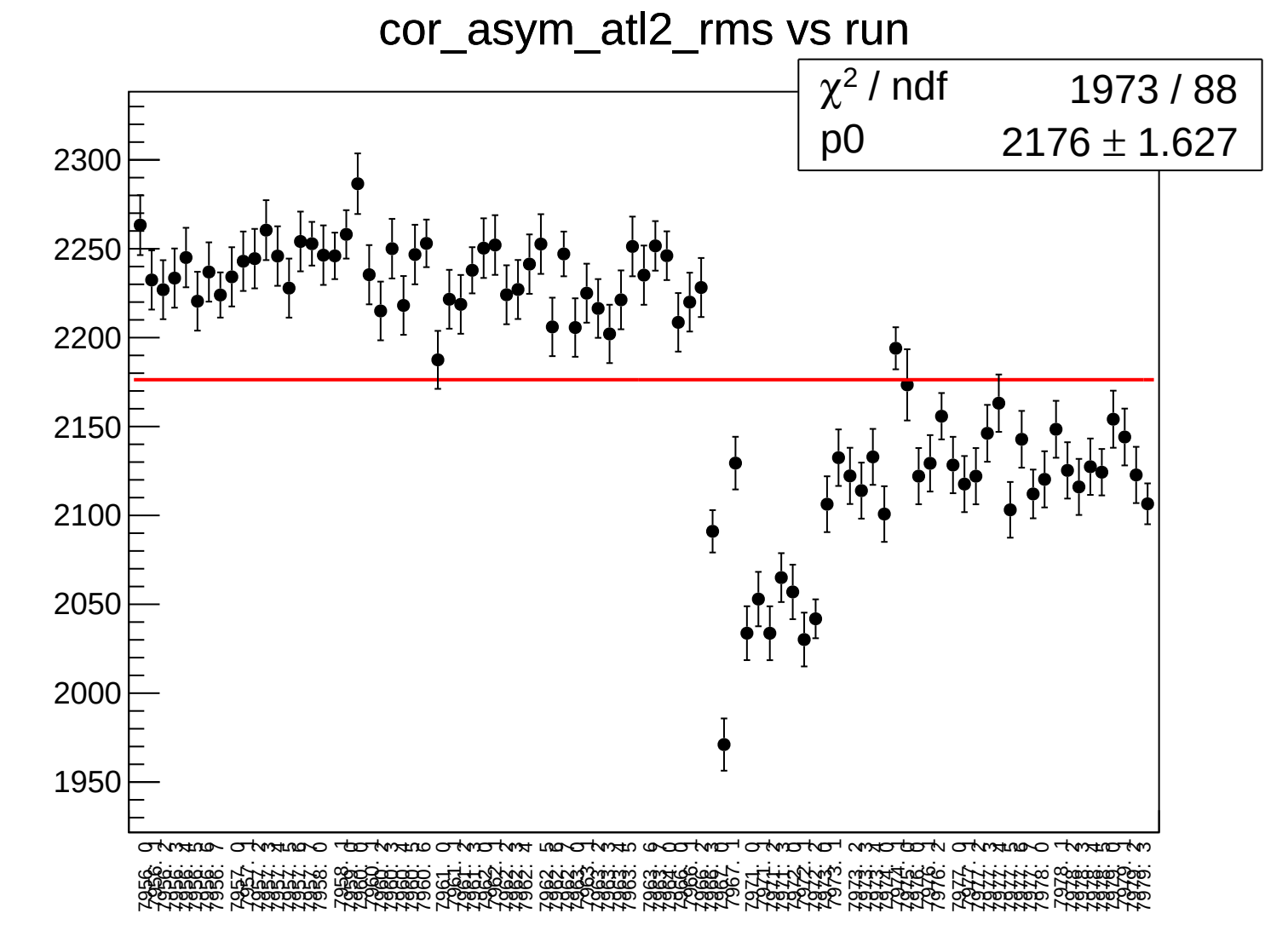

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 82.88 / 88
p0 8293 ± 9558
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −651.1
Std Dev 0
2
1
0
−1
−2

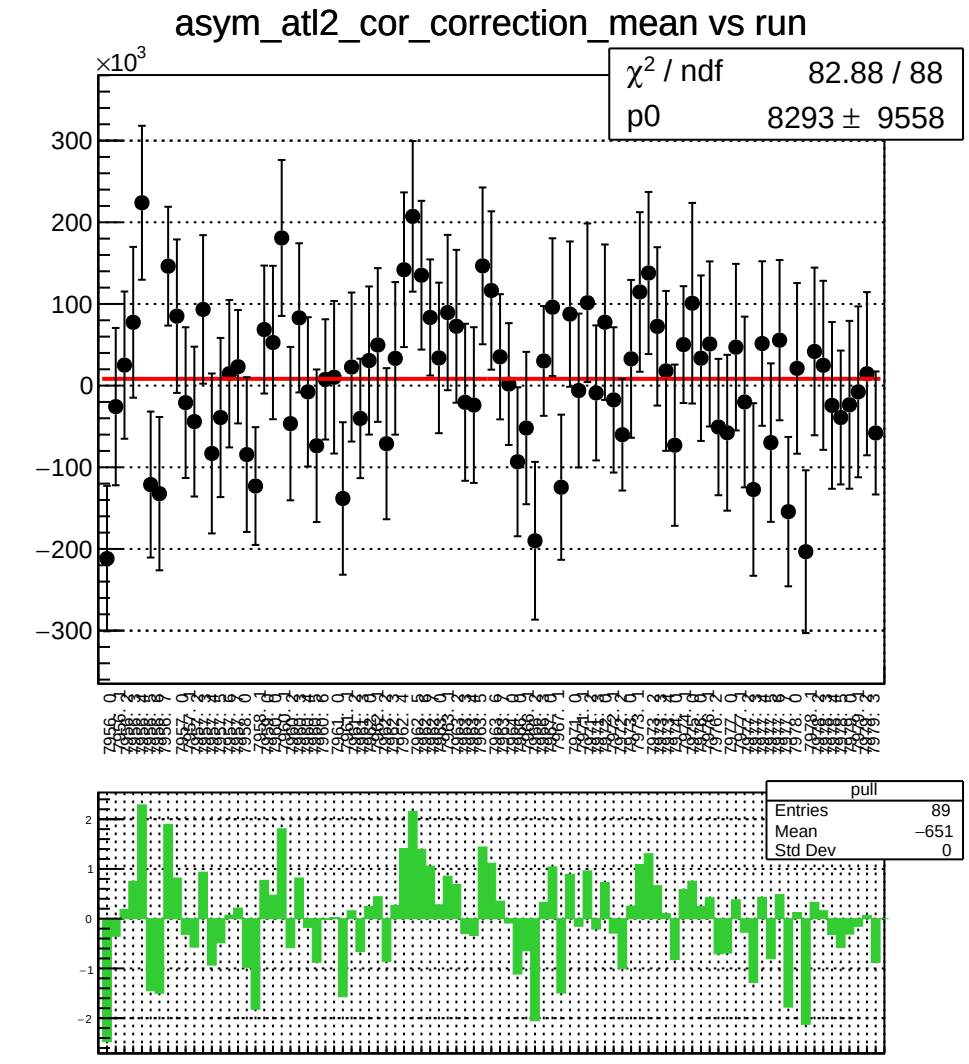

pull1D
Entries 89
Mean 0.00266
Std Dev 0.965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

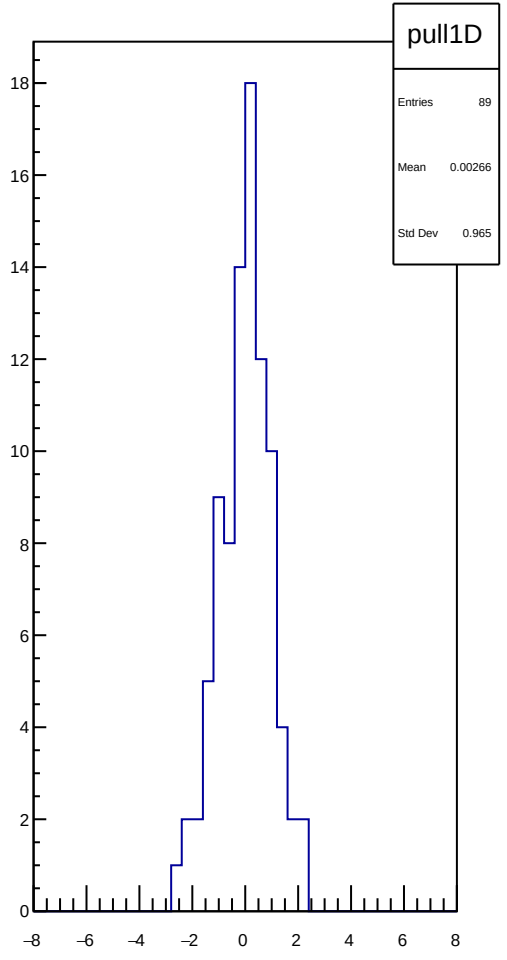

asym_atl2_reg_correction_rms vs run
χ² / ndf 3728 / 88
p0 9035 ± 6.759
10000
9500
9000
8500
8000

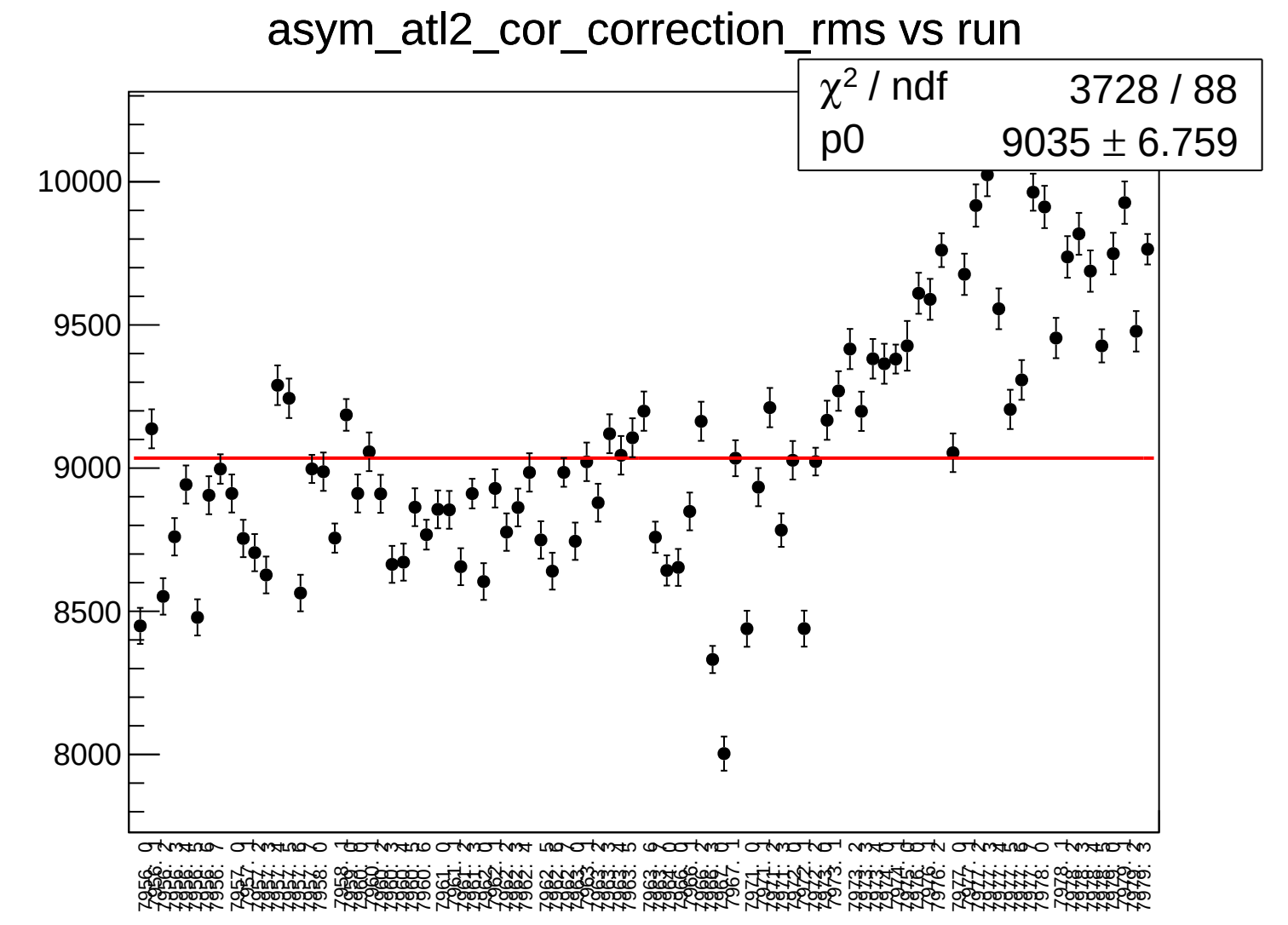

cor_asym_atl2_mean vs run
χ² / ndf 72.34 / 88
p0 −4355 ± 2301
pull
Entries 89
Mean −1.262e+05
Std Dev 0

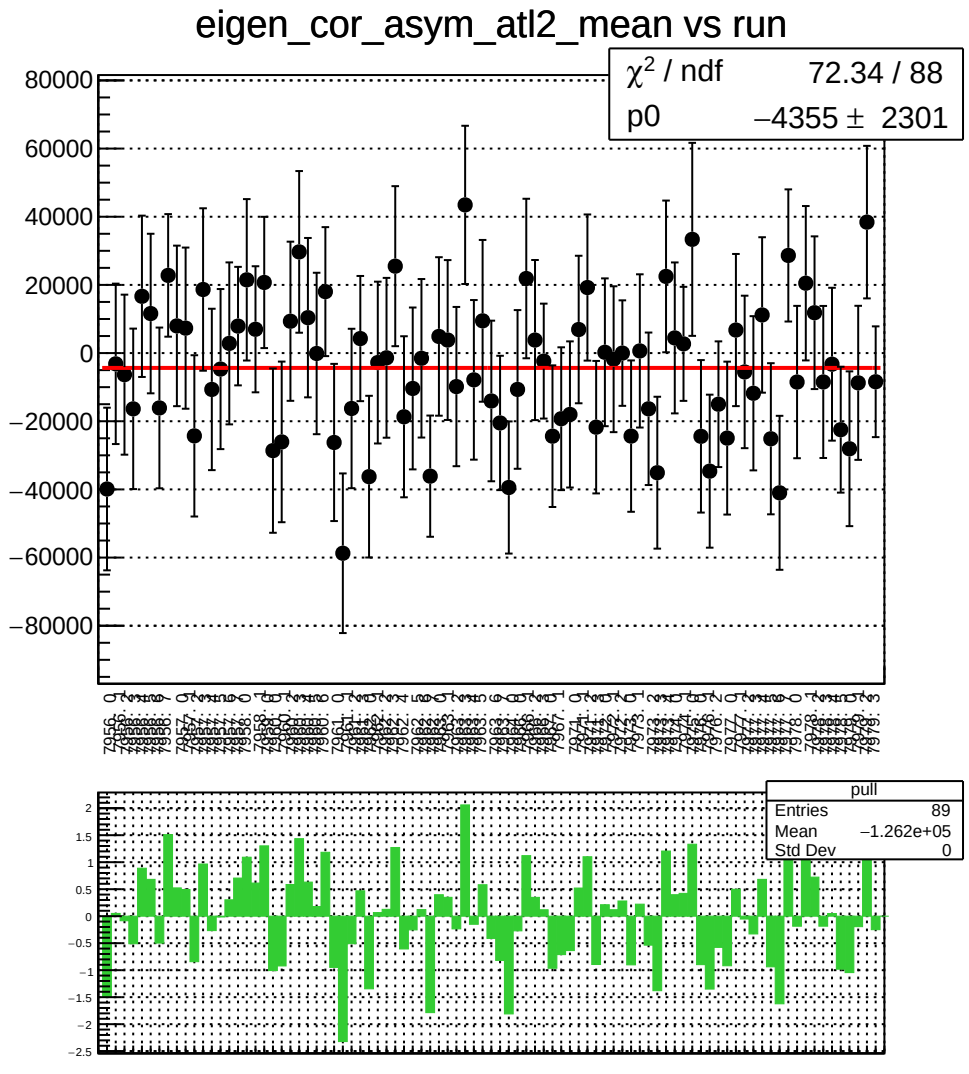

pull1D
Entries 89
Mean 1.386e−05
Std Dev 0.9016

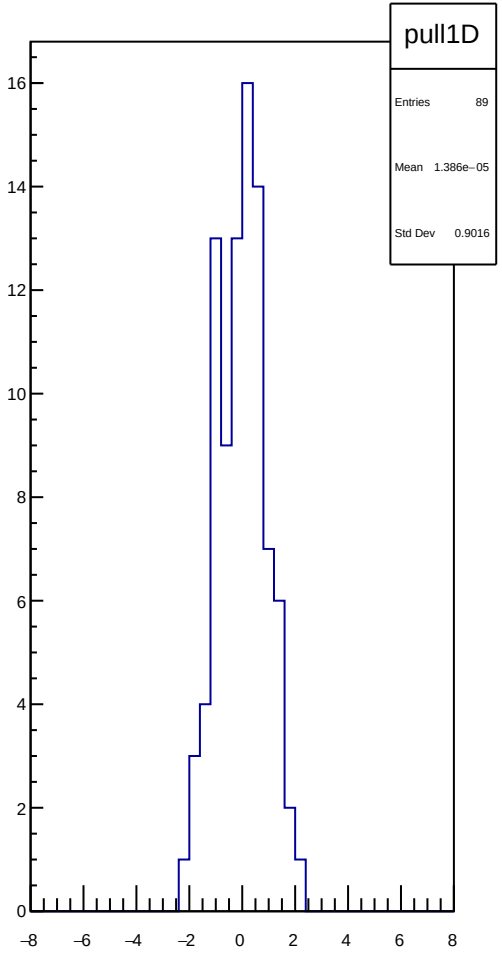

cor_asym_atl2_rms vs run
$\chi^2$ / ndf 1973 / 88
p0 2176 ± 1.627
2300
2250
2200
2150
2100
2050
2000
1950

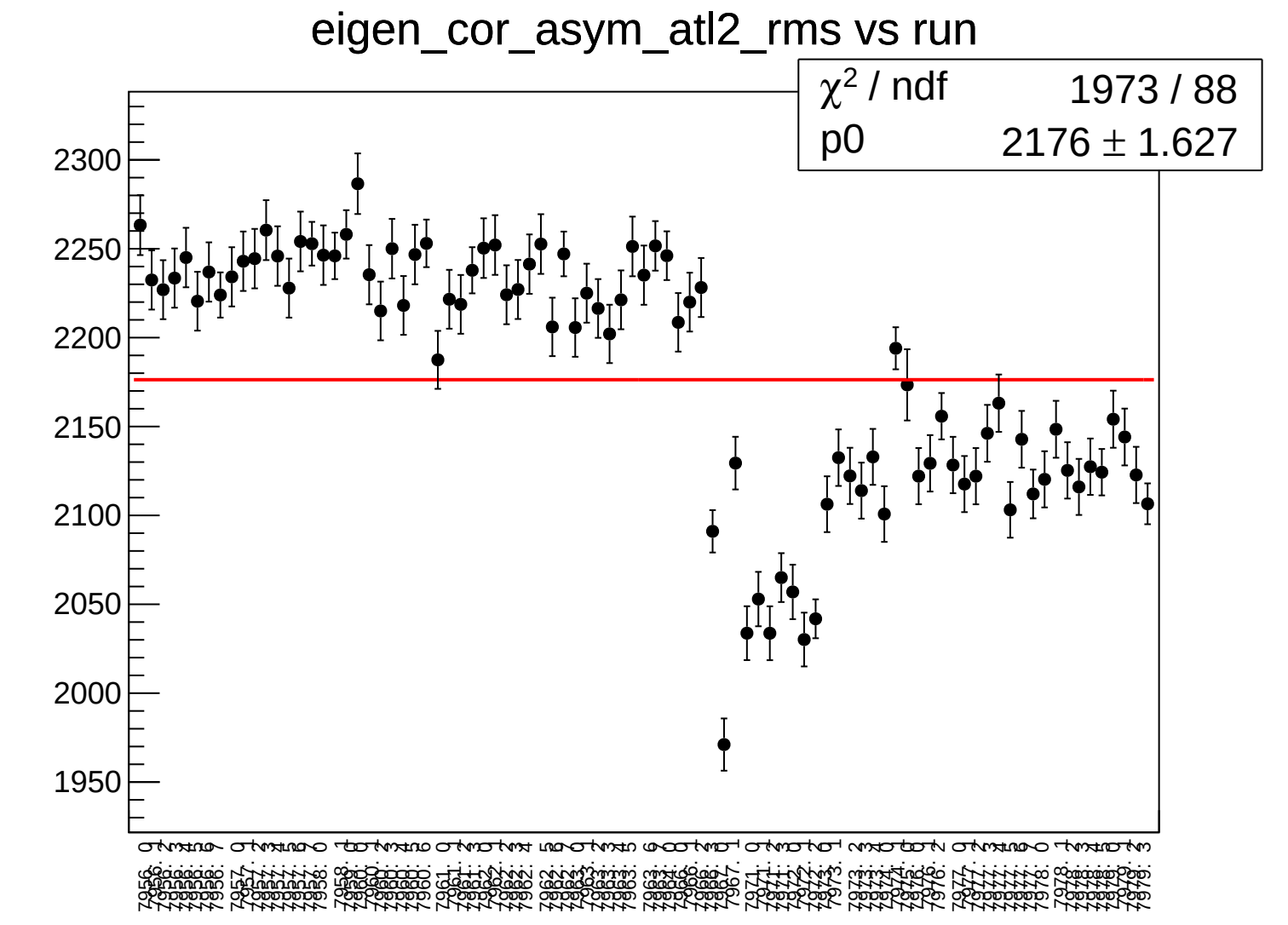

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 82.88 / 88
p0 8293 ± 9558
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −651
Std Dev 0
2
1
0
−1
−2

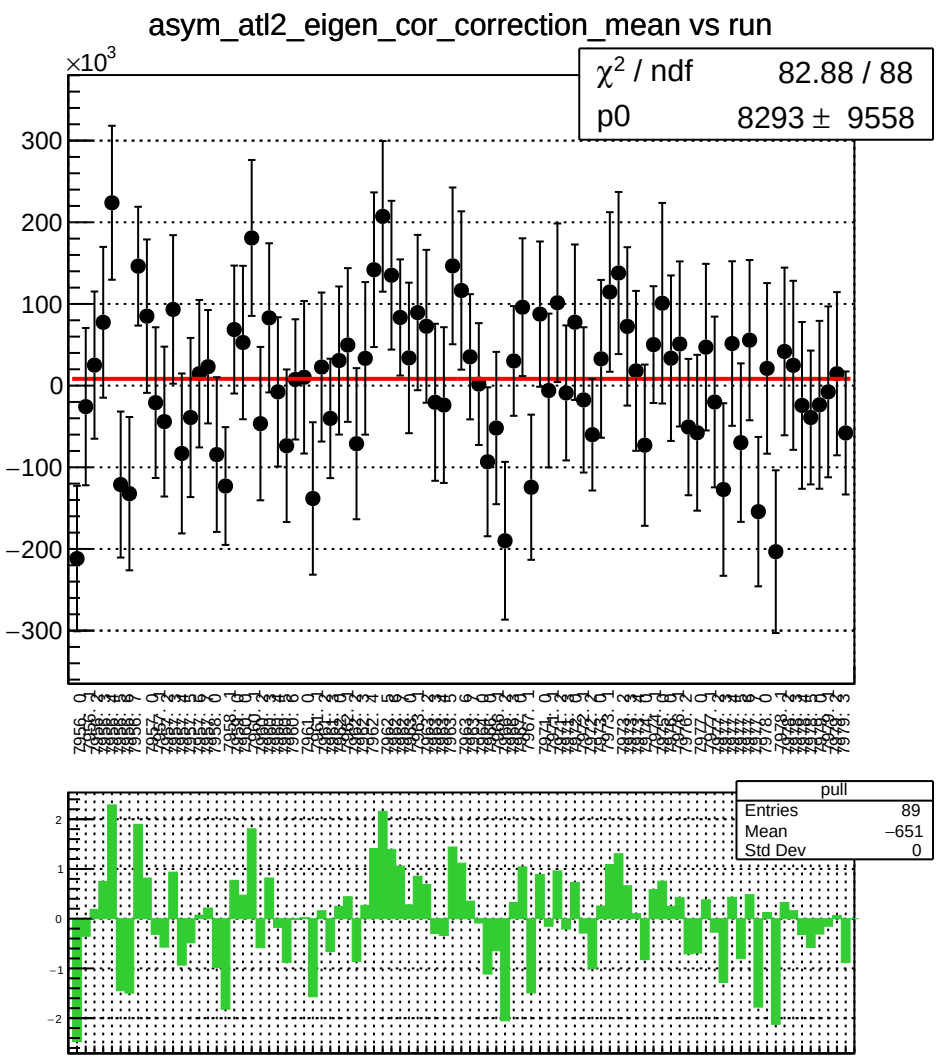

pull1D
Entries 89
Mean 0.00266
Std Dev 0.965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

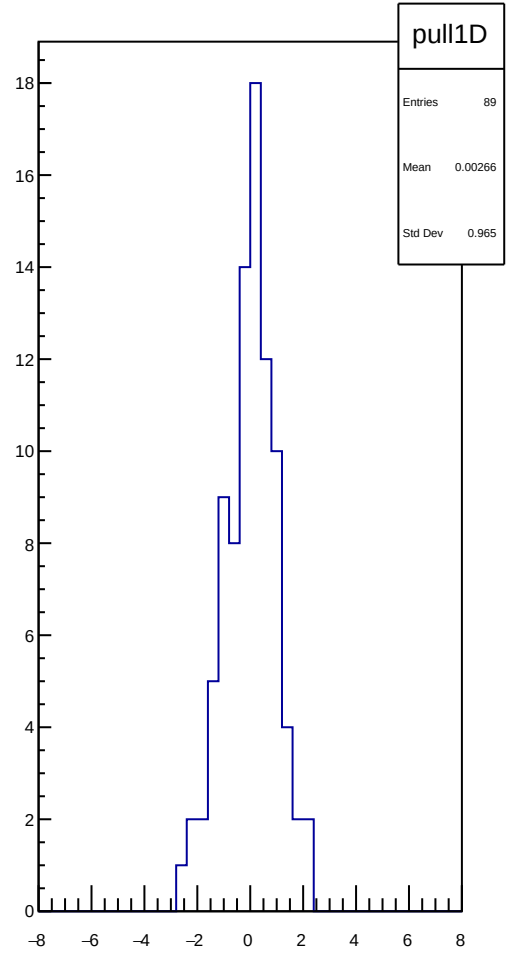

asym_atl2_cor_correction_rms vs run
χ² / ndf 3728 / 88
p0 9035 ± 6.759
10000
9500
9000
8500
8000

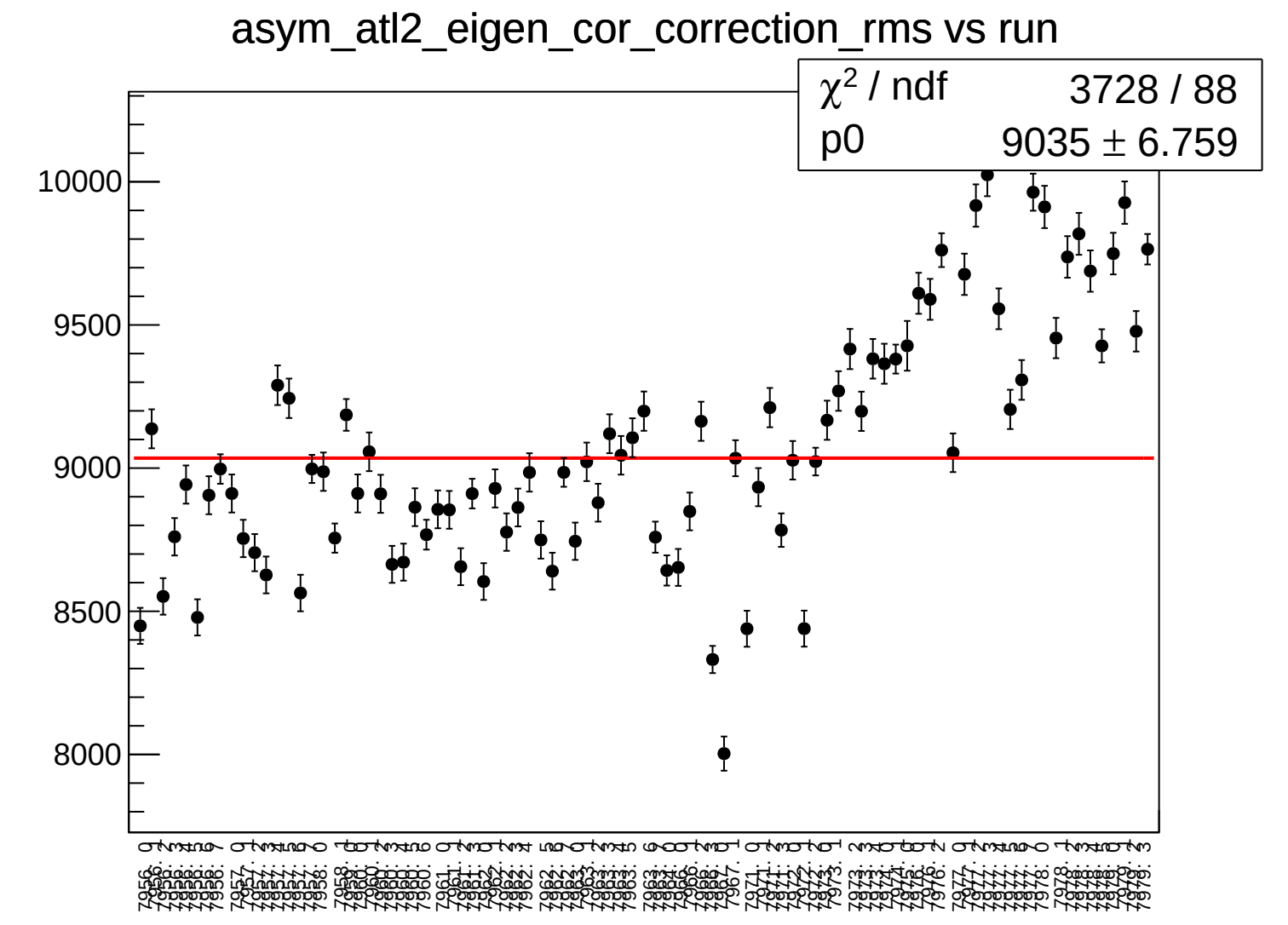

eigen_cor_asym_atl2_mean vs run
χ² / ndf 72.34 / 88
p0 −4355 ± 2301
pull
Entries 89
Mean −1.262e+05
Std Dev 0

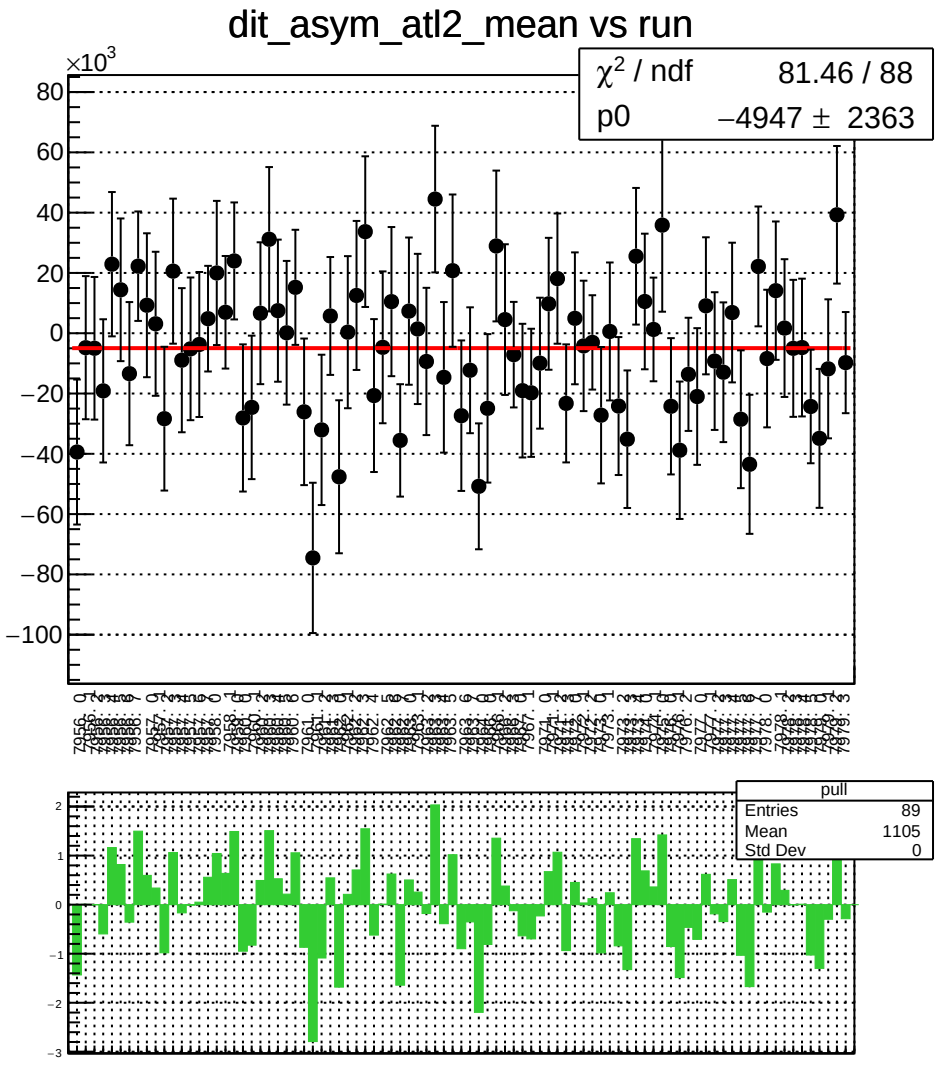

pull1D
Entries 89
Mean 1.386e−05
Std Dev 0.9016

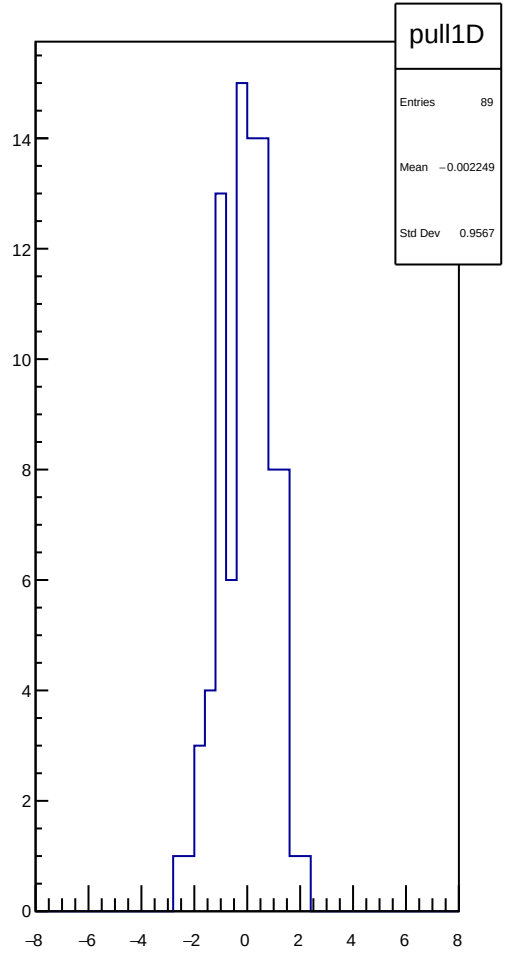

eigen_cor_asym_atl2_rms vs run
χ² / ndf 1973 / 88
p0 2176 ± 1.627
2300
2250
2200
2150
2100
2050
2000
1950

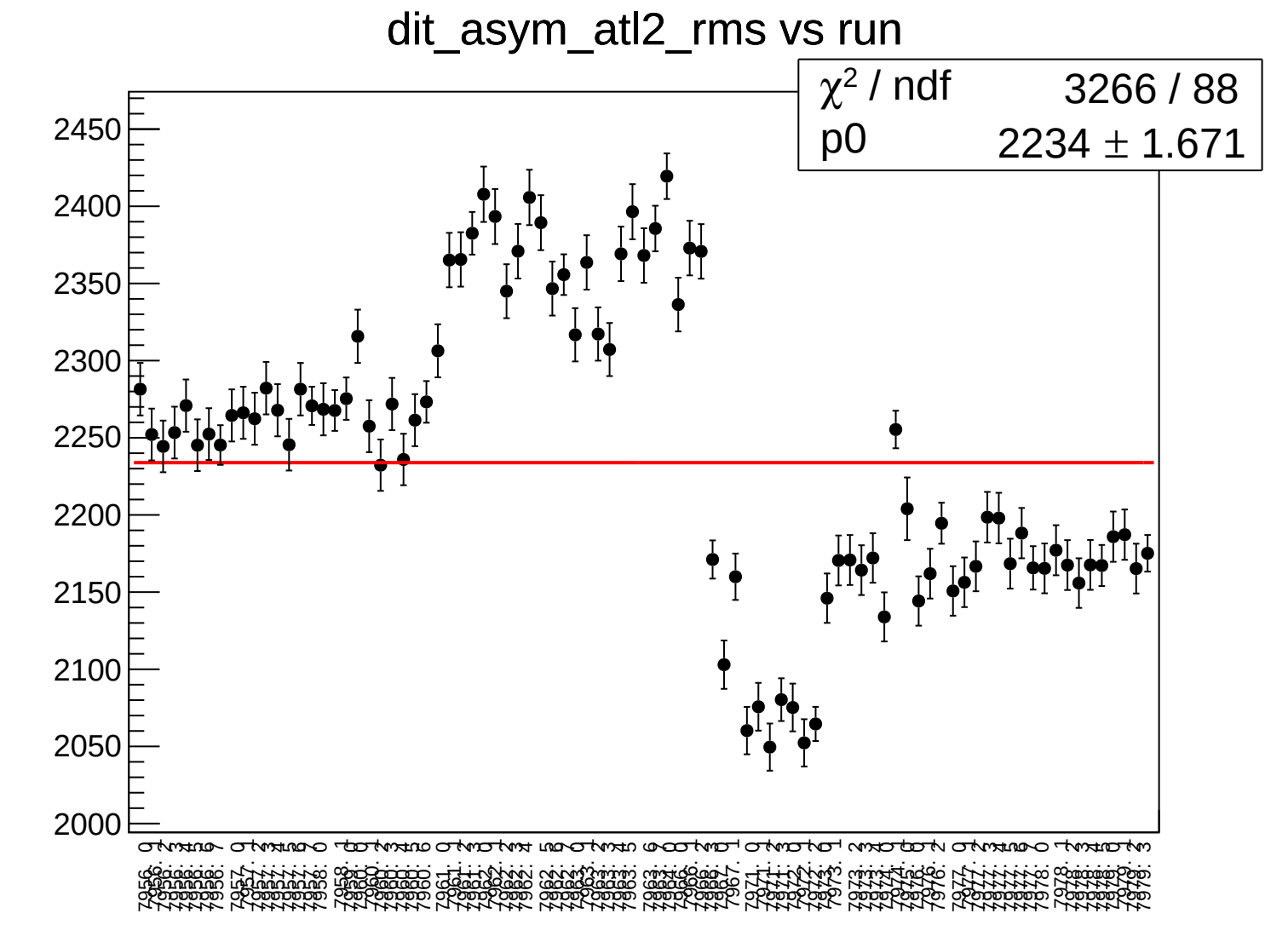

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.88 / 88
p0 8293 ± 9558
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −651
Std Dev 0
2
1
0
−1
−2

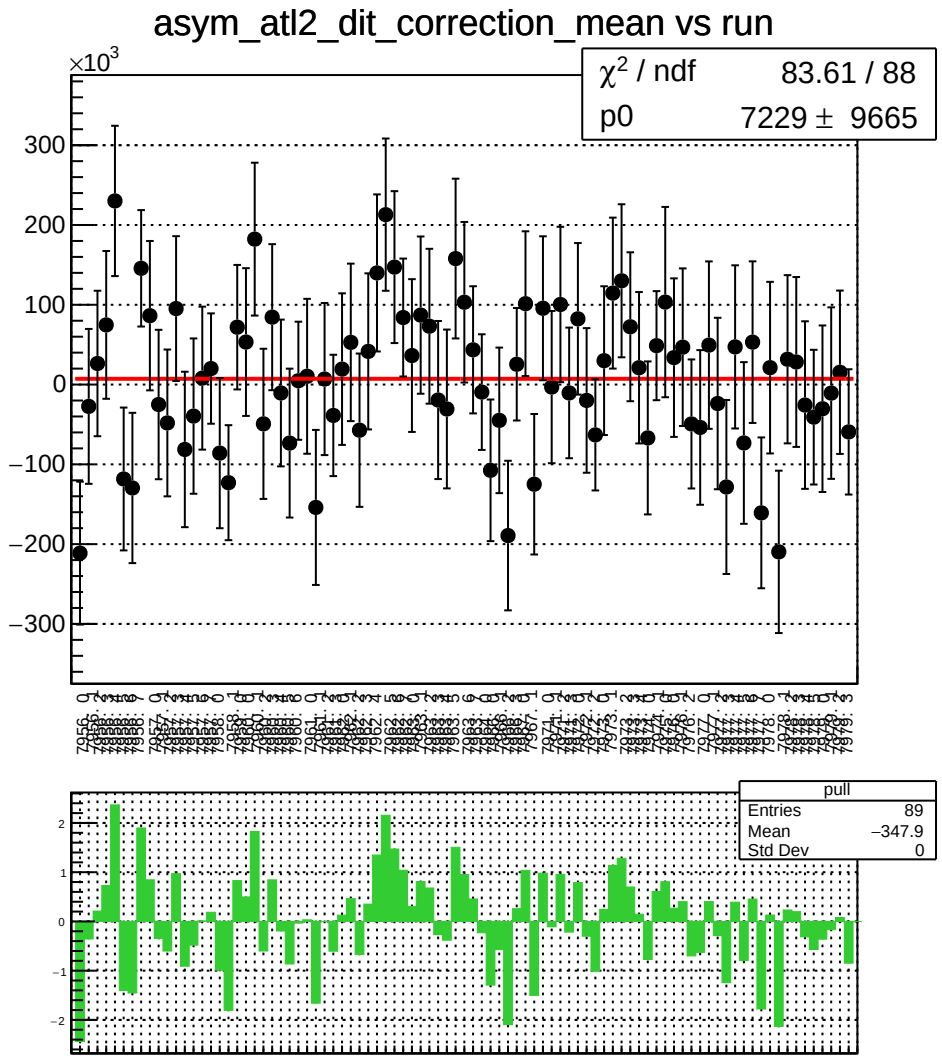

pull1D
Entries 89
Mean 0.00266
Std Dev 0.965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

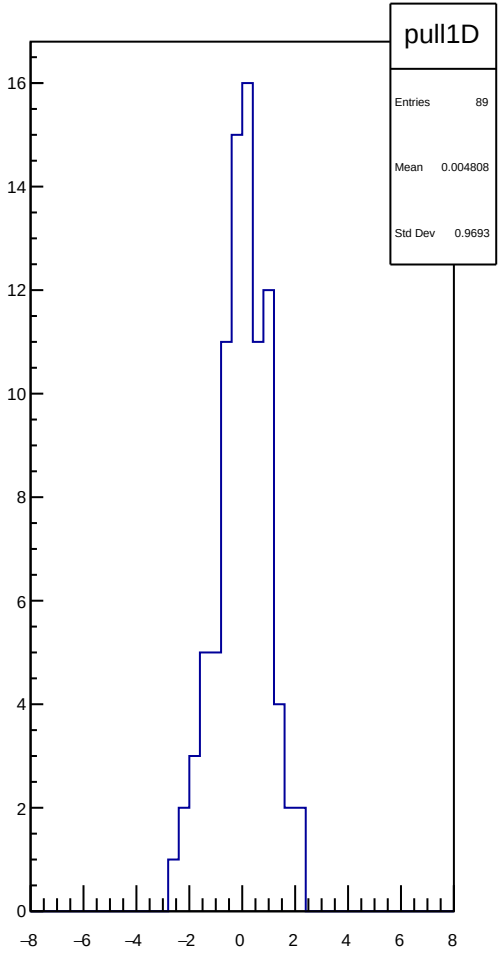

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 3728 / 88
p0 9035 ± 6.759
10000
9500
9000
8500
8000

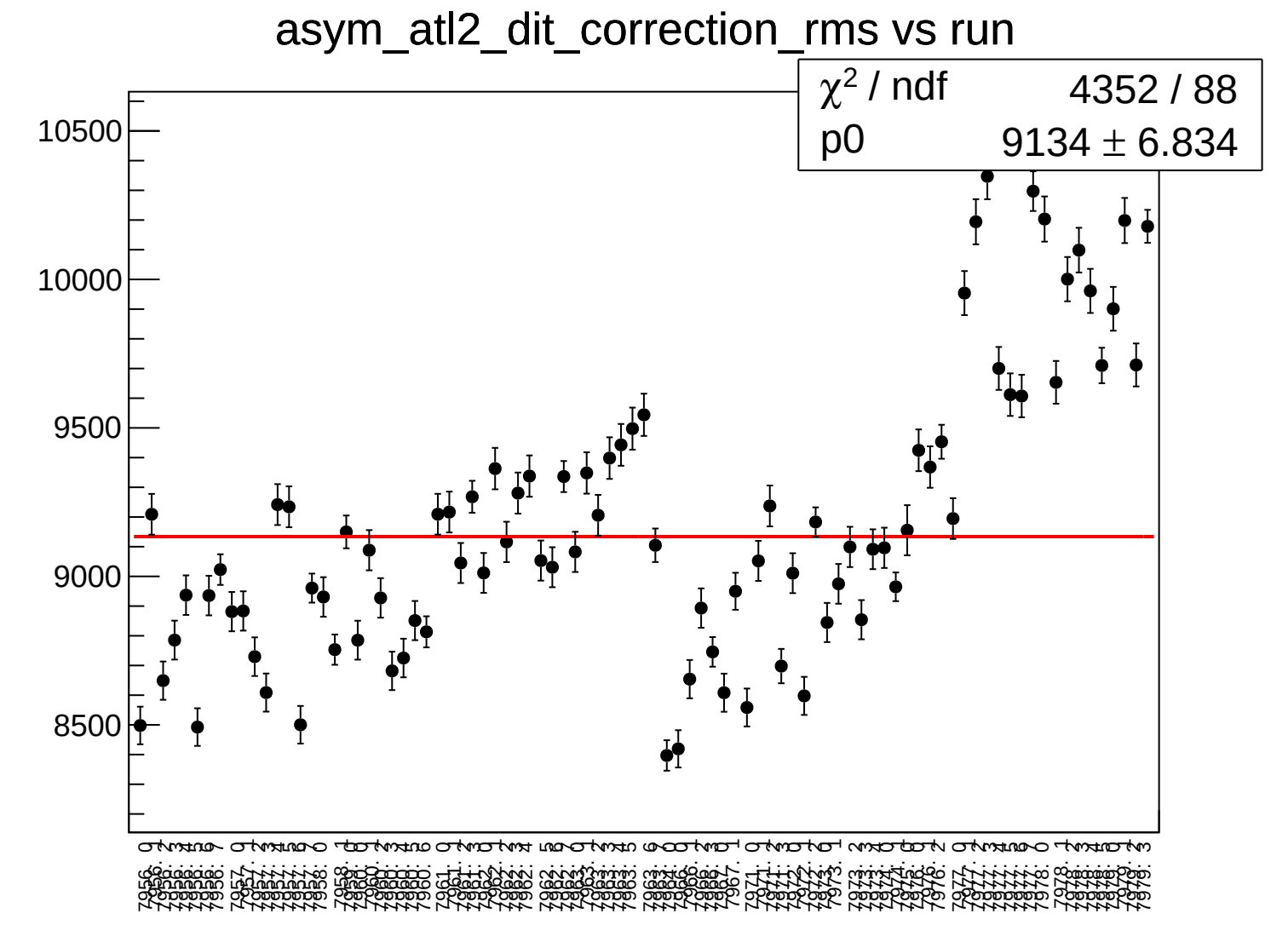

dit_asym_atl2_mean vs run
$\chi^2$ / ndf 81.46 / 88
p0 −4947 ± 2363
×10^3
pull
Entries 89
Mean 1105
Std Dev 0

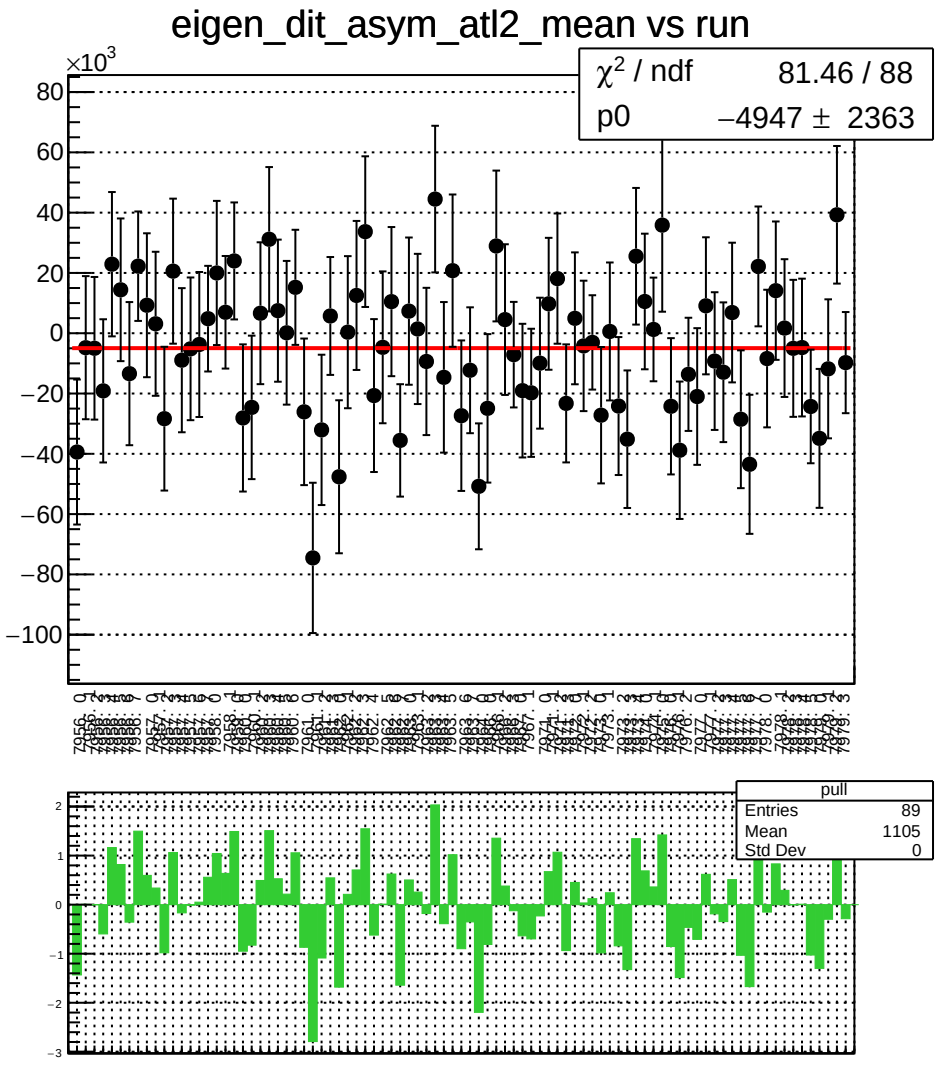

pull1D
Entries 89
Mean −0.002249
Std Dev 0.9567

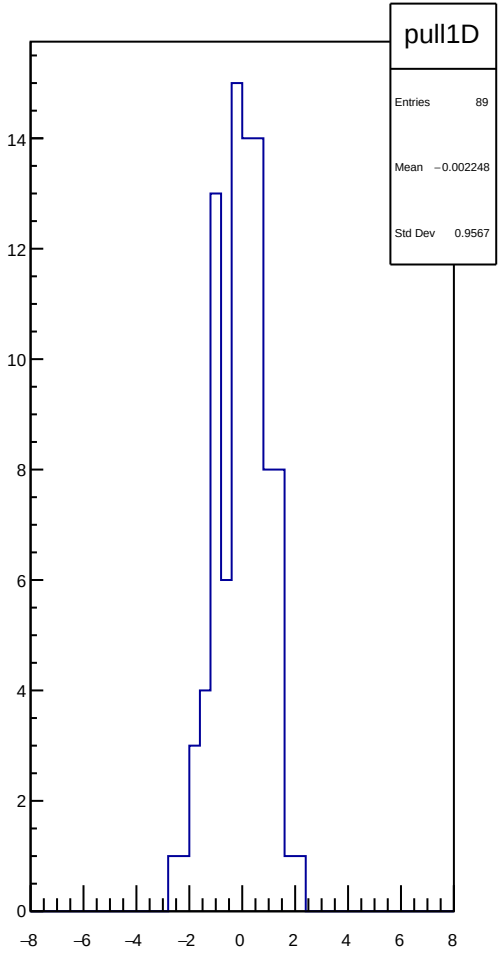

dit_asym_atl2_rms vs run
χ² / ndf 3266 / 88
p0 2234 ± 1.671
2450
2400
2350
2300
2250
2200
2150
2100
2050
2000

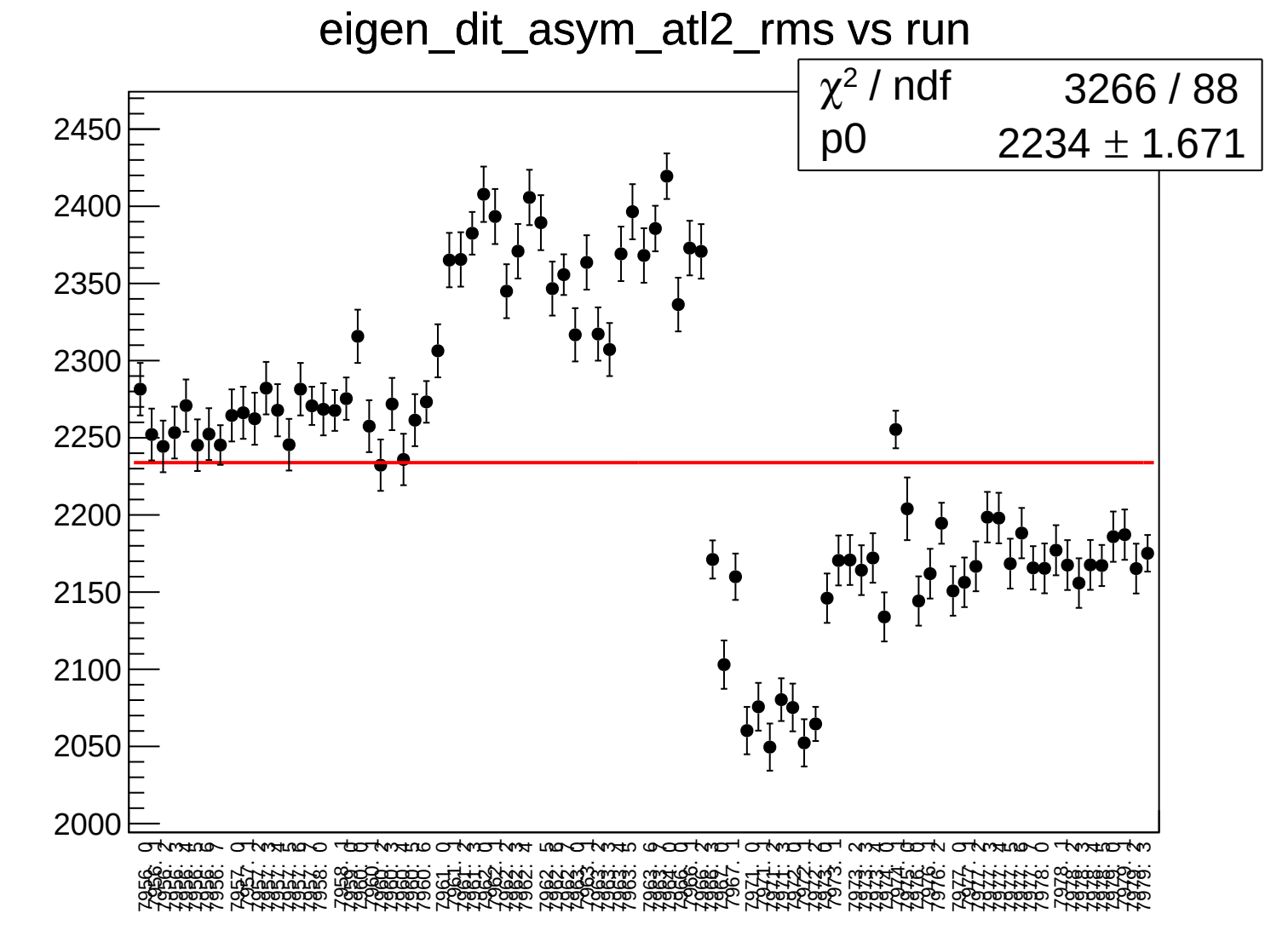

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 83.61 / 88
p0 7229 ± 9665
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −347.9
Std Dev 0
2
1
0
−1
−2

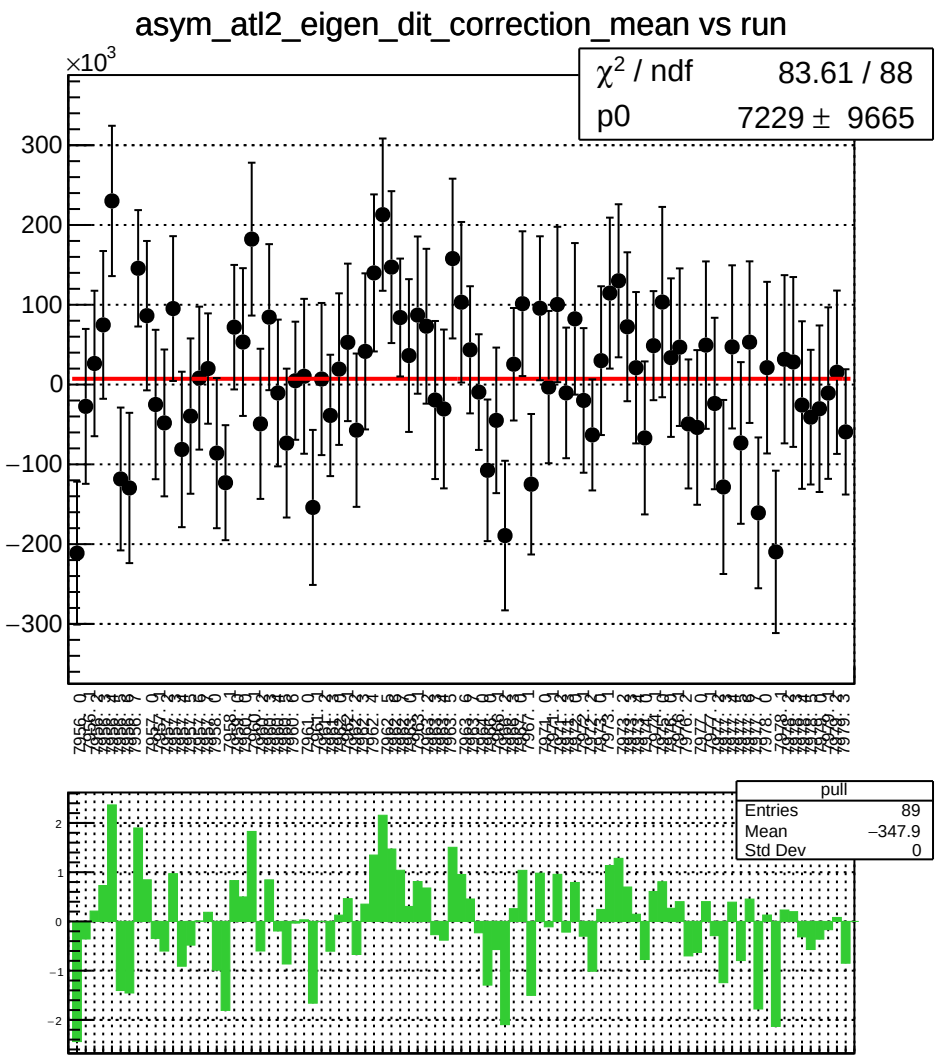

pull1D
Entries 89
Mean 0.004808
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

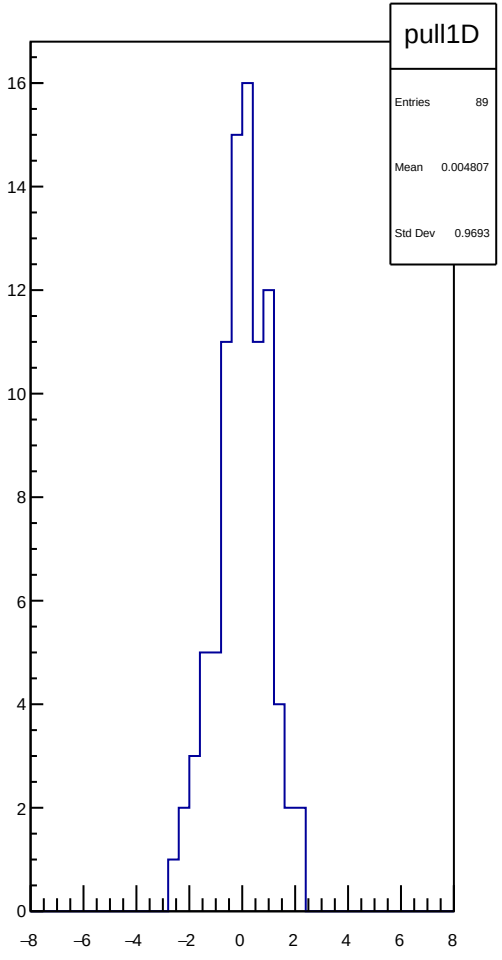

asym_atl2_dit_correction_rms vs run
χ² / ndf 4352 / 88
p0 9134 ± 6.834
10500
10000
9500
9000
8500


eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 81.46 / 88
p0 −4947 ± 2363
pull
Entries 89
Mean 1105
Std Dev 0


pull1D
Entries 89
Mean −0.002248
Std Dev 0.9567


eigen_dit_asym_atl2_rms vs run
$\chi^2$ / ndf 3266 / 88
p0 2234 ± 1.671
2450
2400
2350
2300
2250
2200
2150
2100
2050
2000


asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.61 / 88
p0 7229 ± 9665
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −347.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.004807
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
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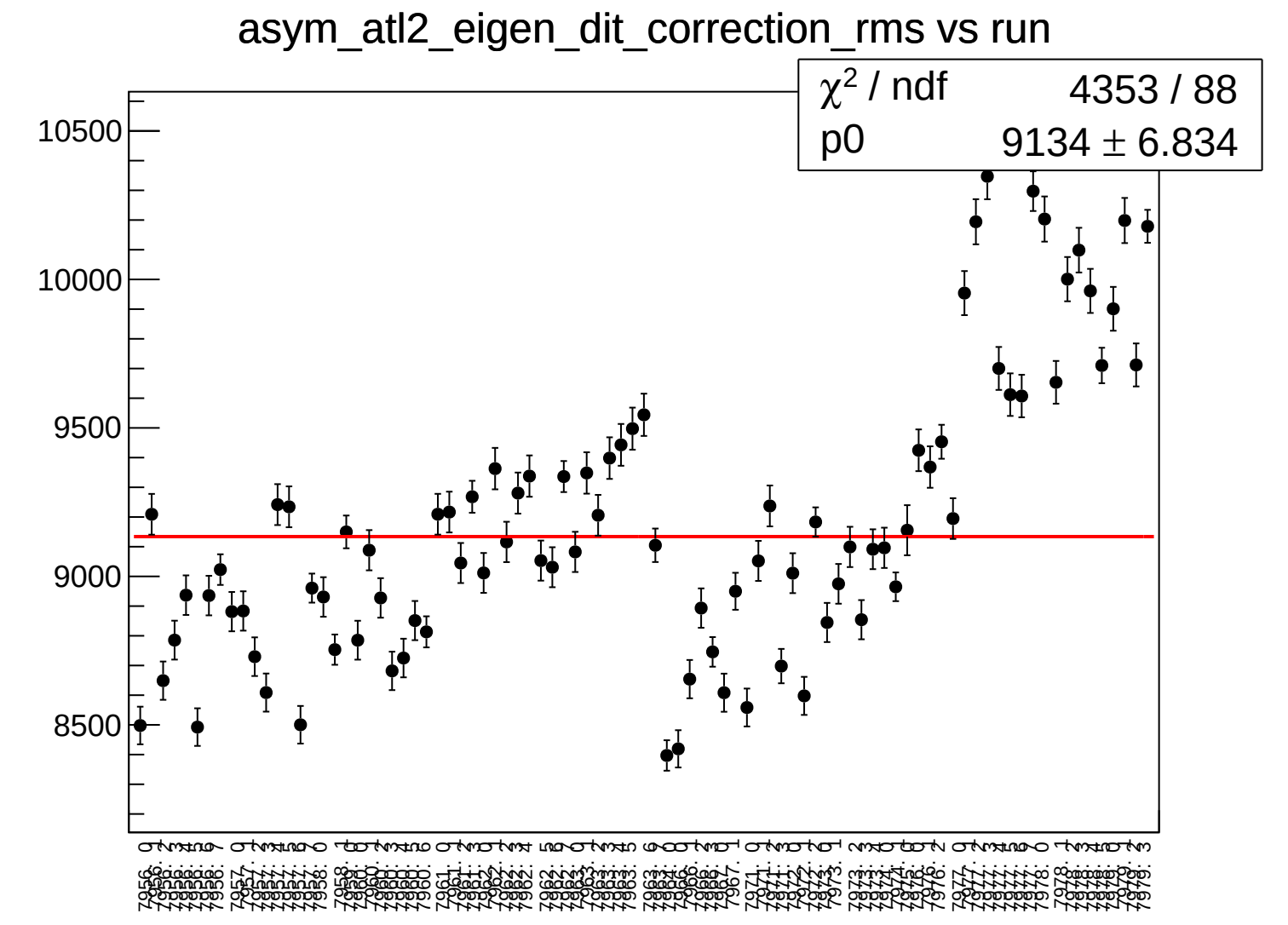
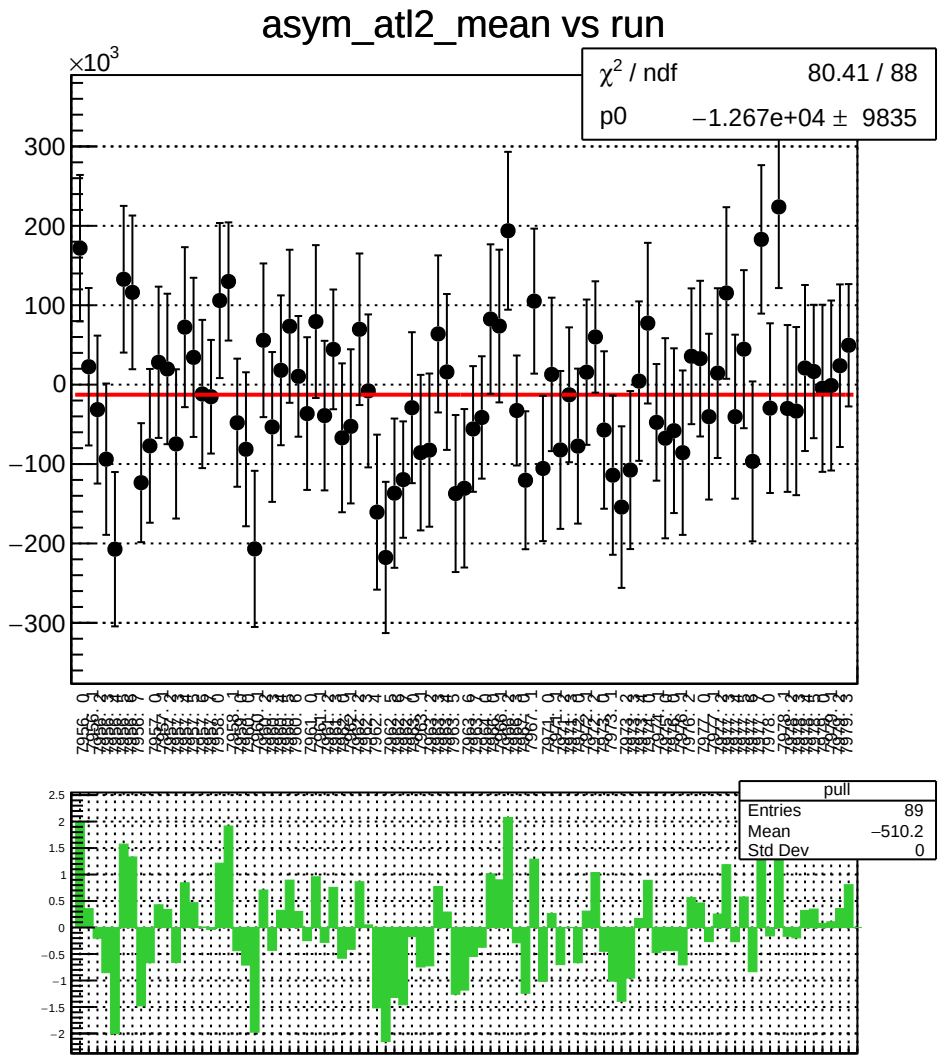
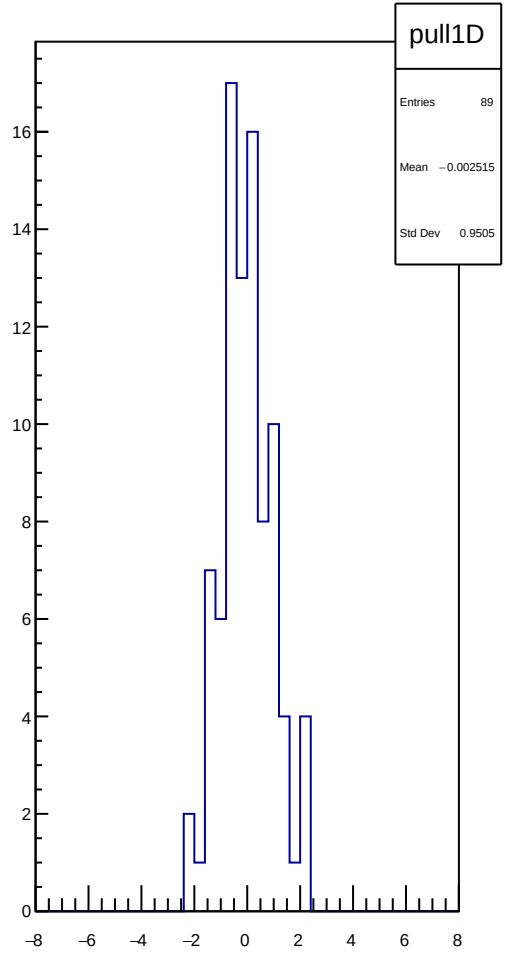
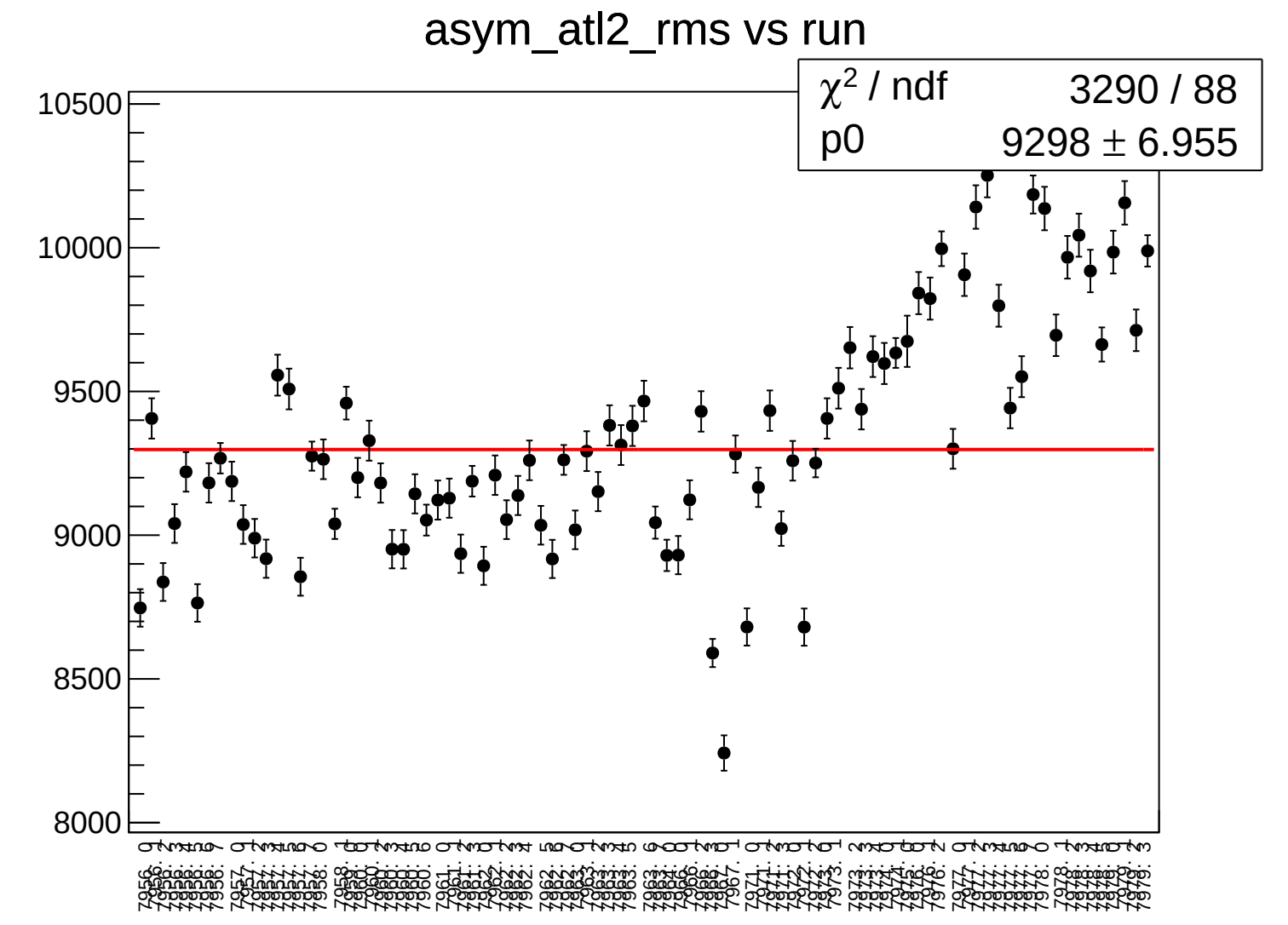
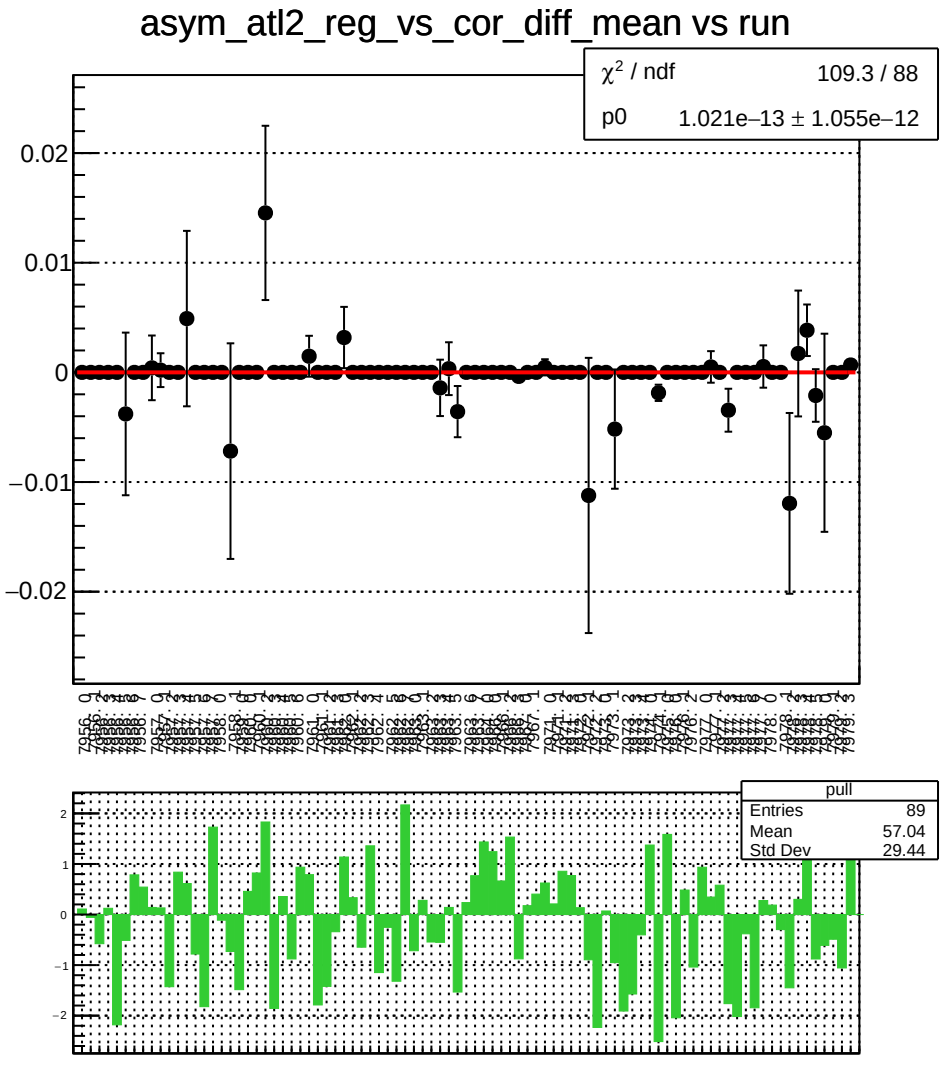
0
2
4
6
8

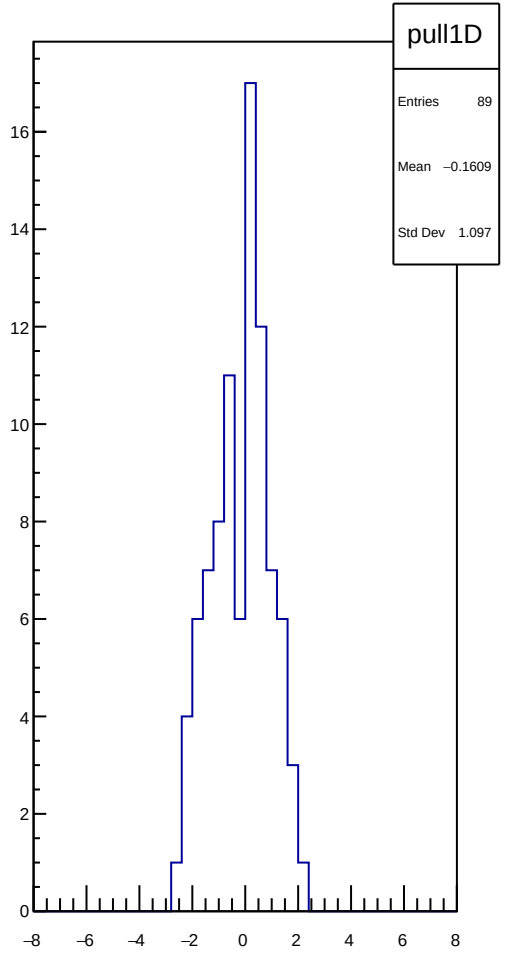

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 4353 / 88
p0 9134 ± 6.834
10500
10000
9500
9000
8500

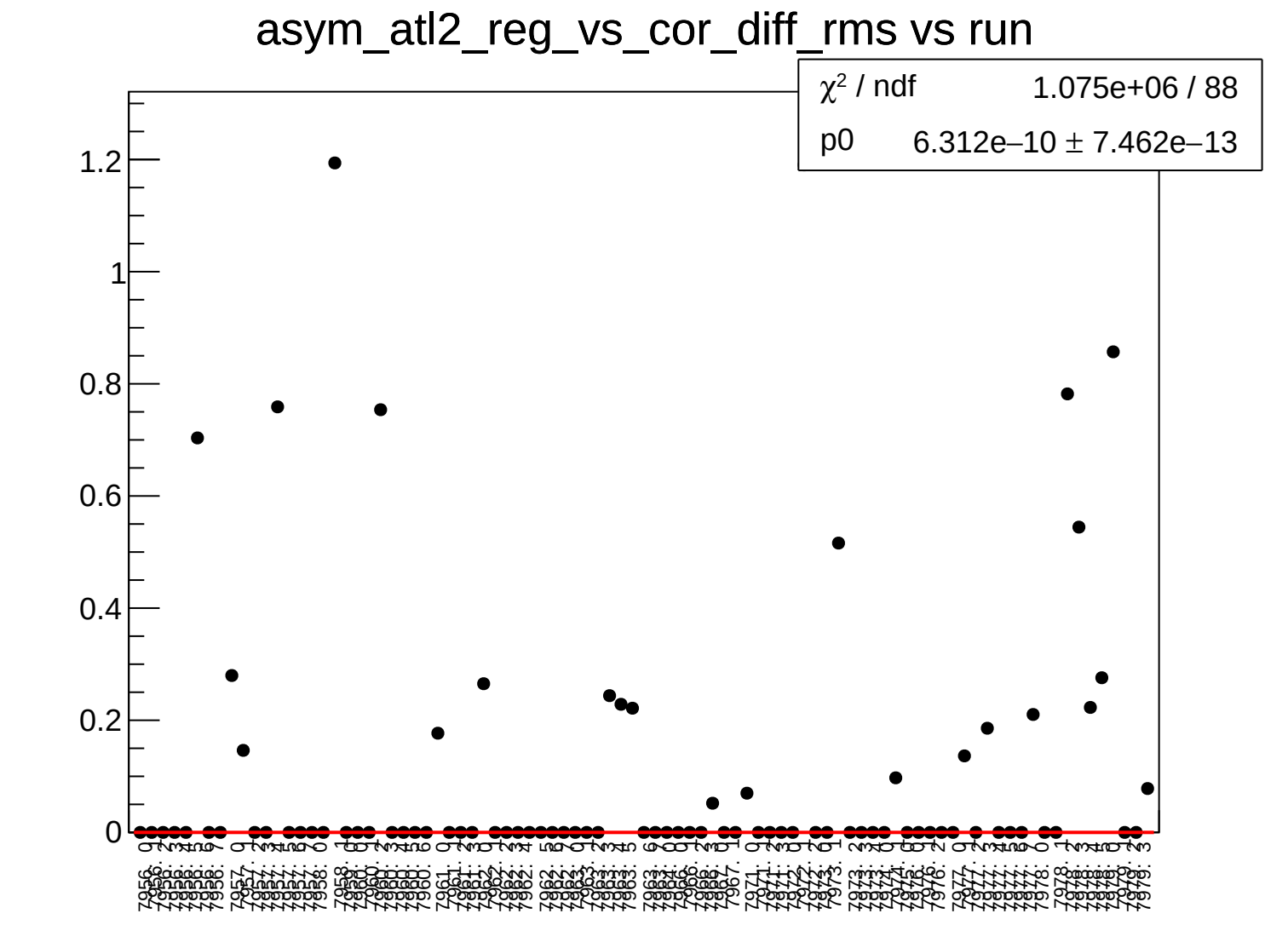

asym_atl2_mean vs run
×10^3
χ² / ndf 80.41 / 88
p0 −1.267e+04 ± 9835
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −510.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

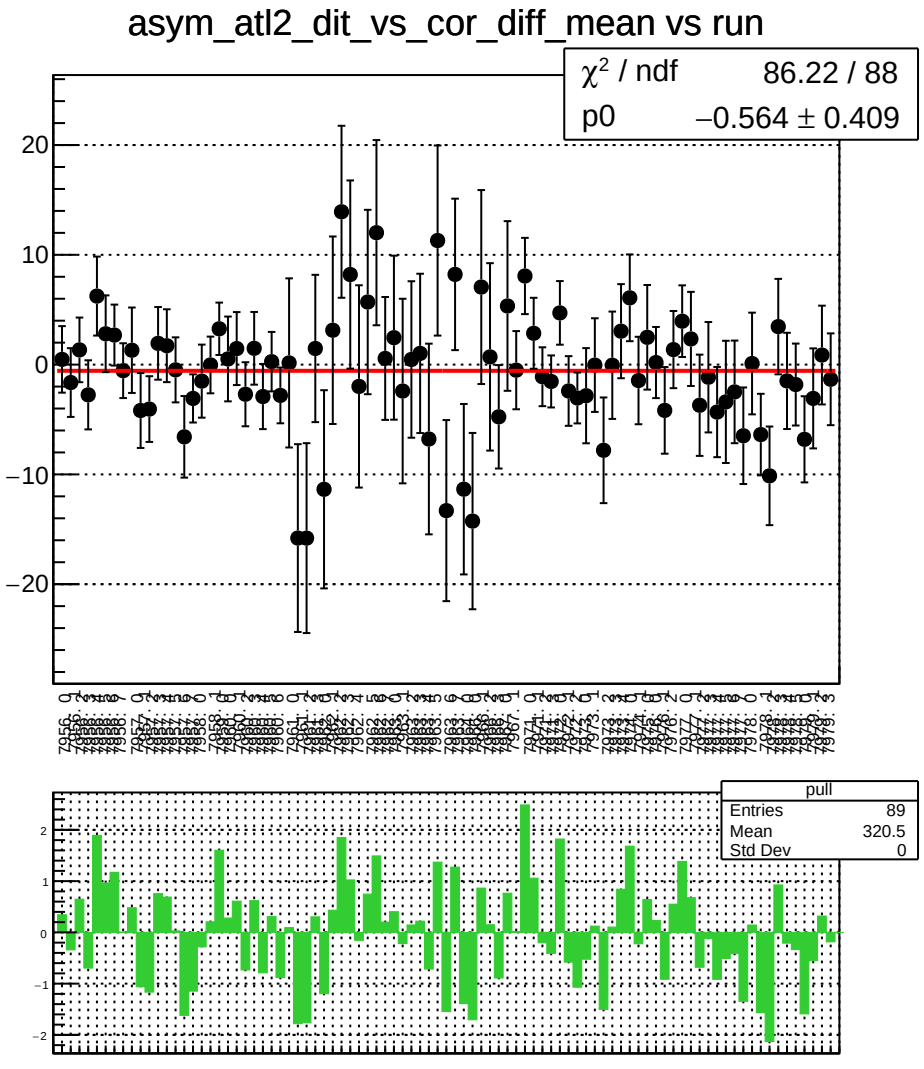

pull1D
Entries 89
Mean −0.002515
Std Dev 0.9505
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

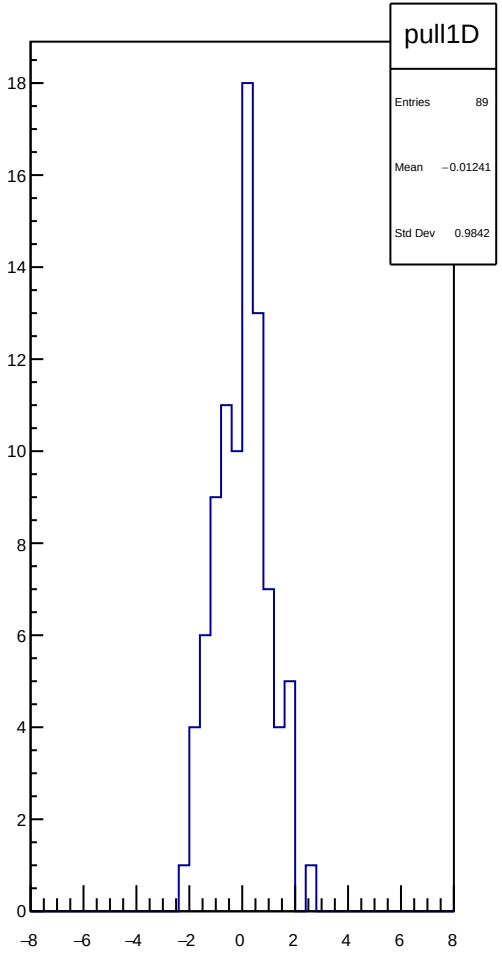

asym_atl2_rms vs run
χ² / ndf 3290 / 88
p0 9298 ± 6.955
10500
10000
9500
9000
8500
8000

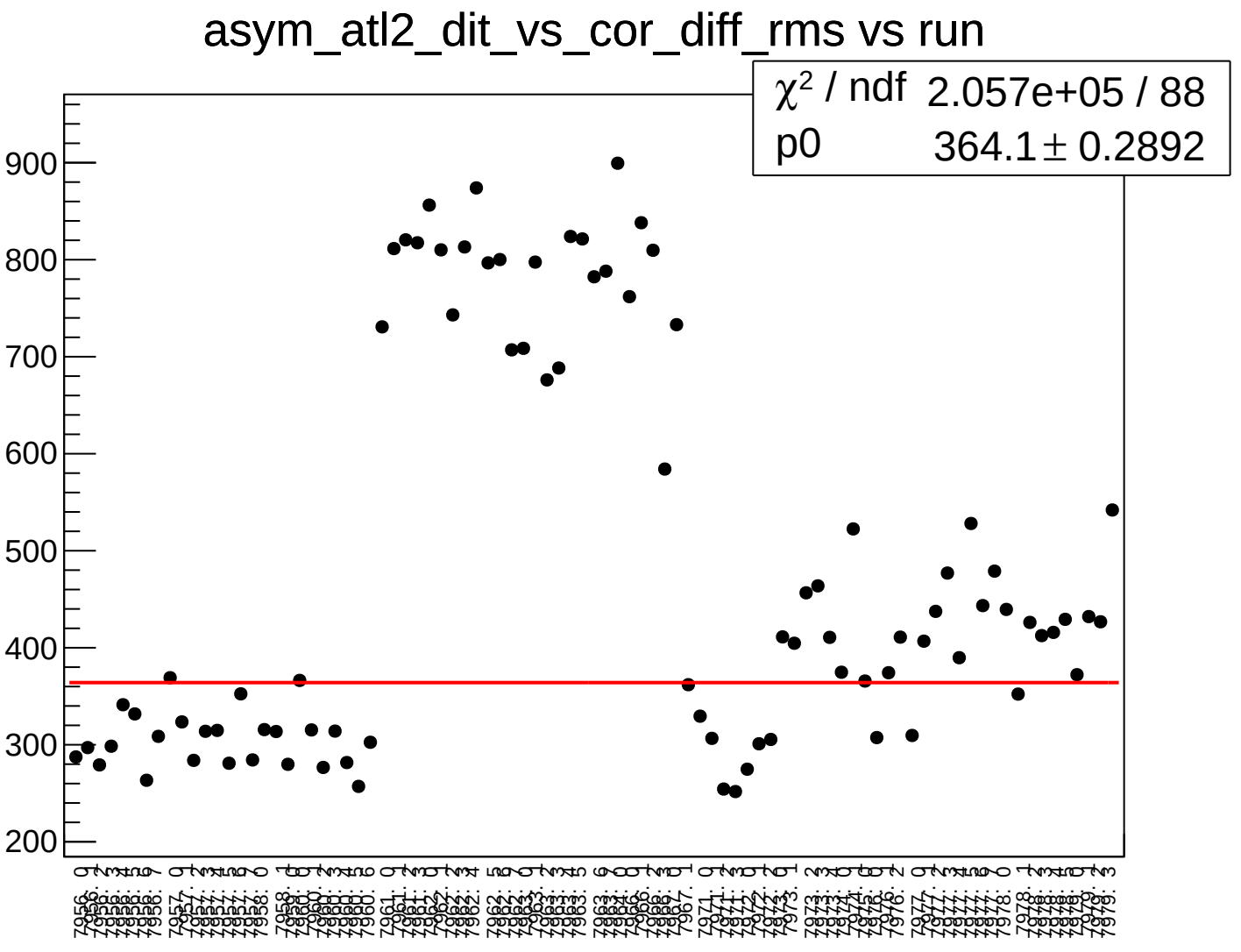

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 109.3 / 88
p0 1.021e−13 ± 1.055e−12
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 57.04
Std Dev 29.44
2
1
0
−1
−2

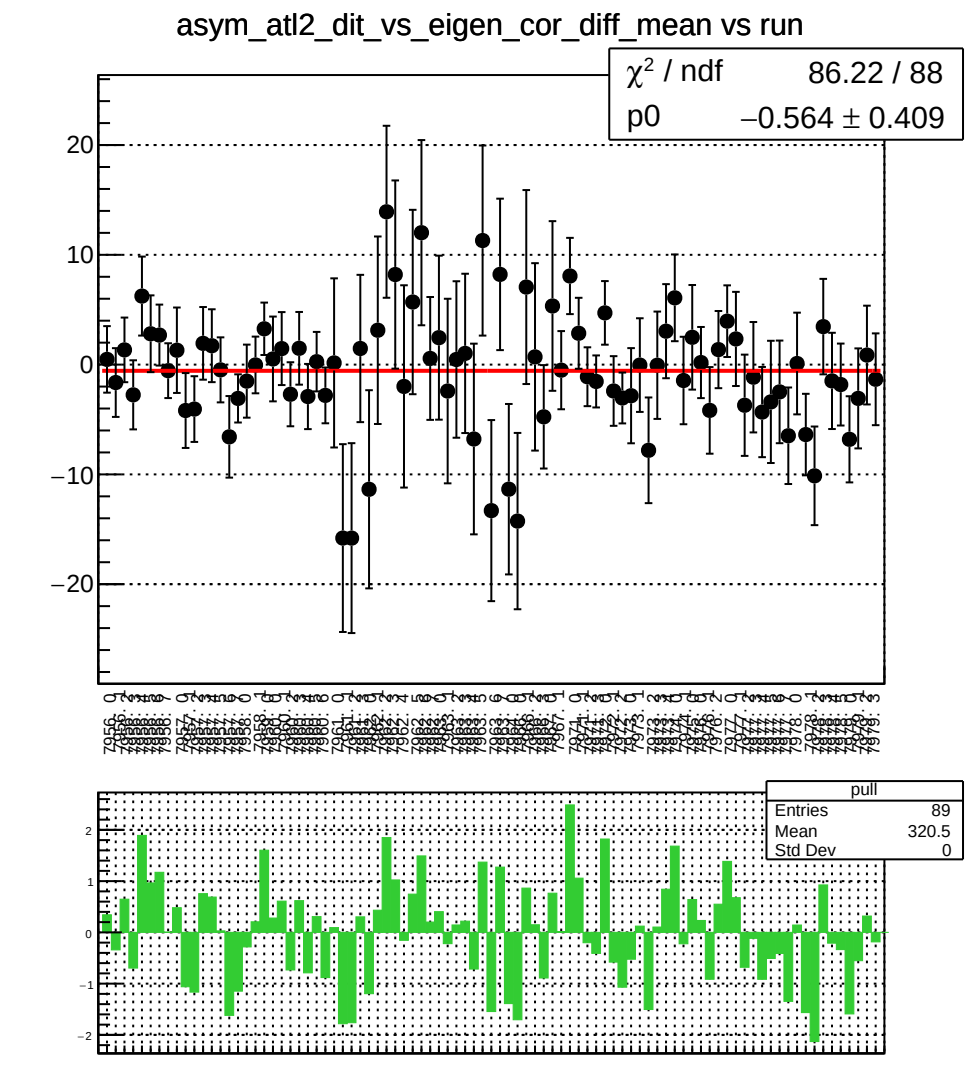

pull1D
Entries 89
Mean −0.1609
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

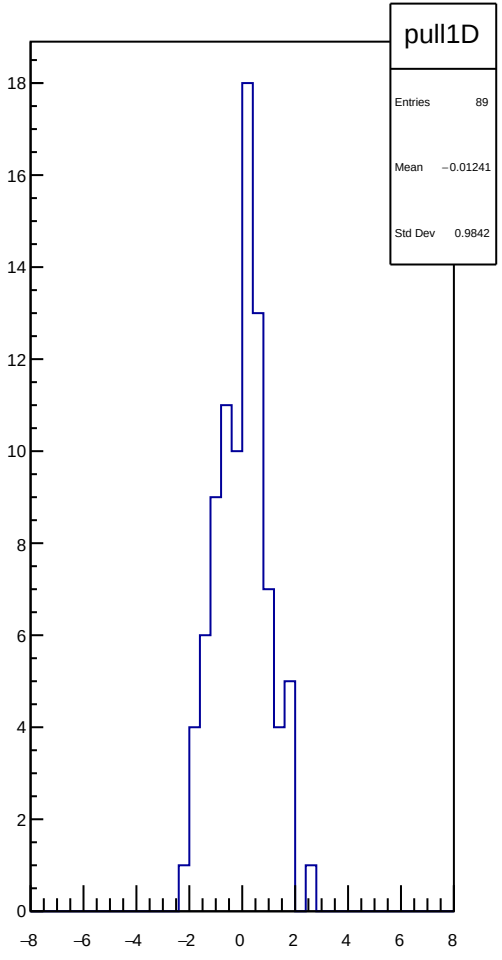

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.075e+06 / 88
p0 6.312e−10 ± 7.462e−13
1.2
1
0.8
0.6
0.4
0.2
0

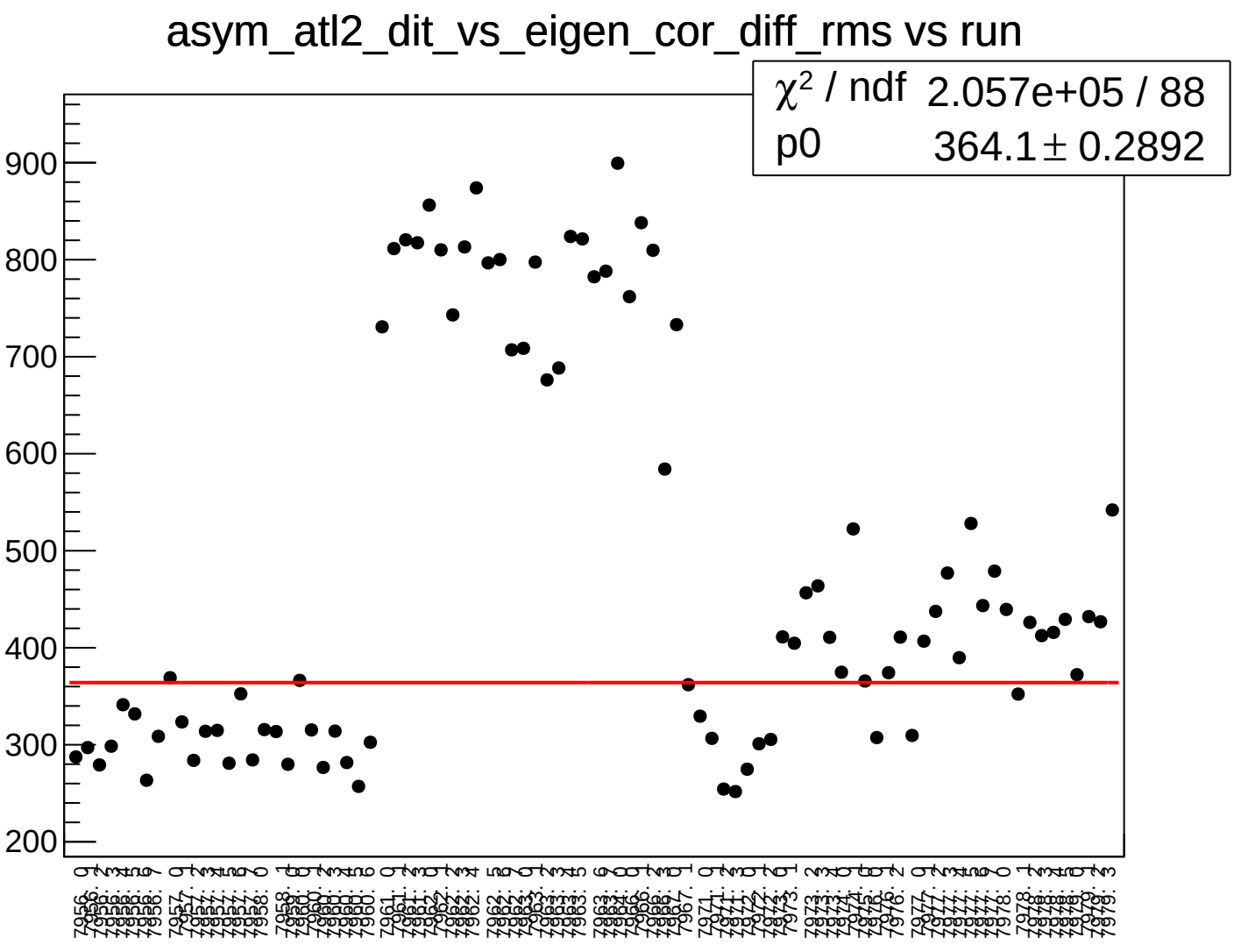

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 86.22 / 88
p0 −0.564 ± 0.409
pull
Entries 89
Mean 320.5
Std Dev 0

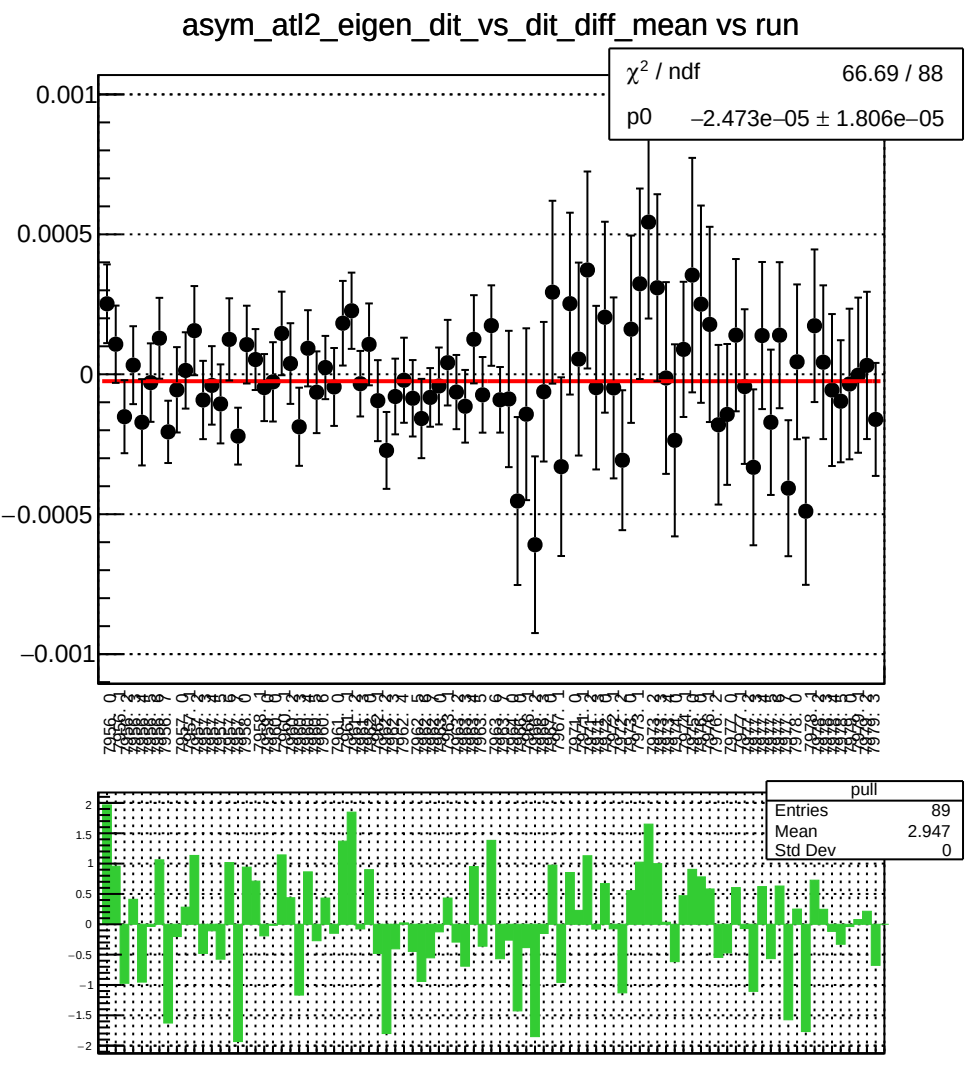

pull1D
Entries 89
Mean −0.01241
Std Dev 0.9842

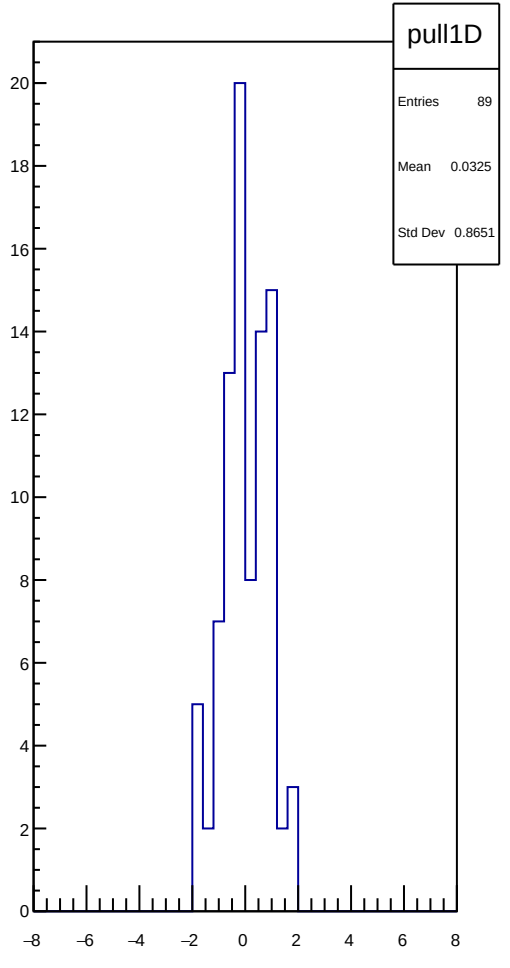

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.057e+05 / 88
p0 364.1 ± 0.2892
900
800
700
600
500
400
300
200

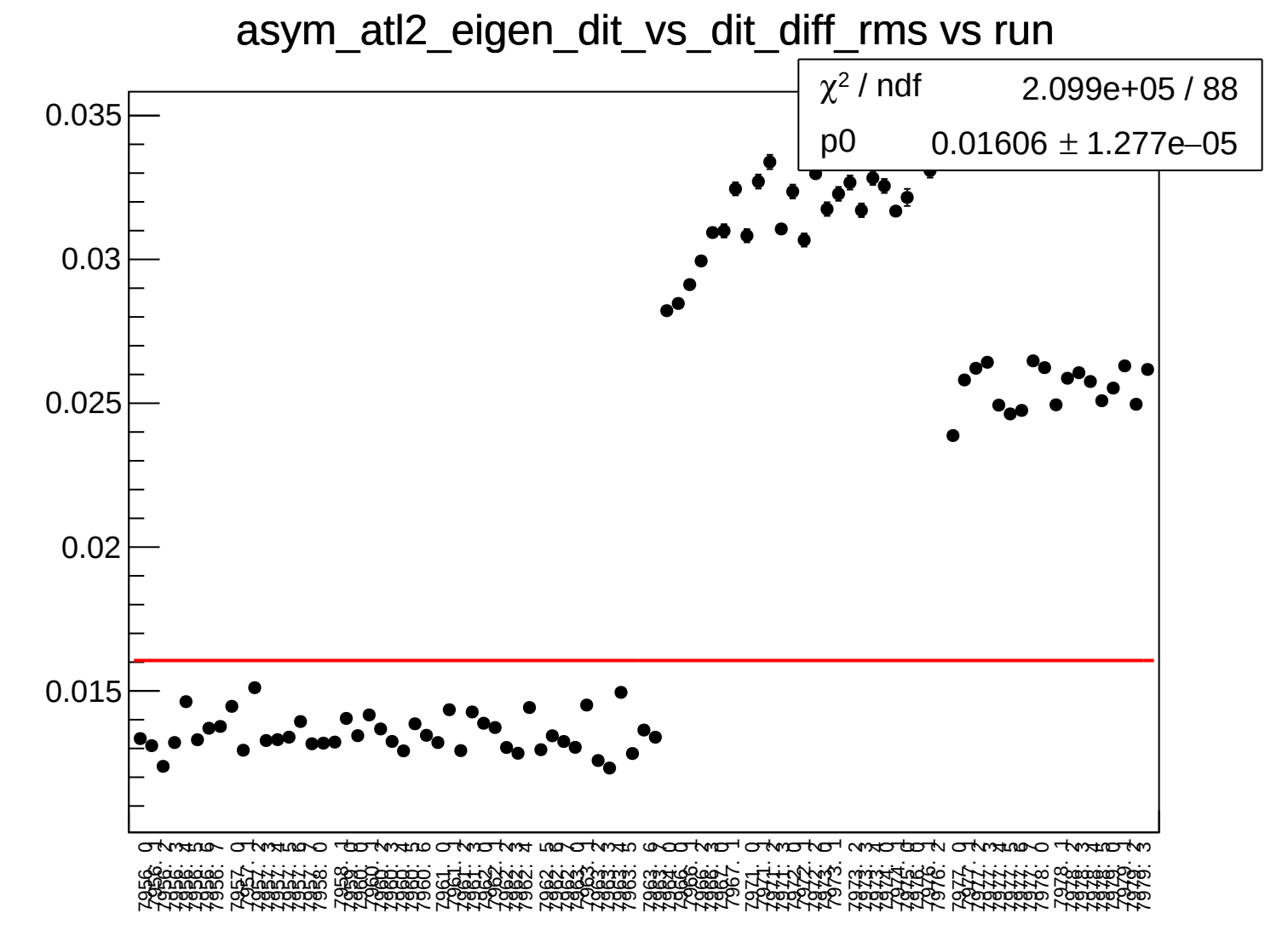

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.22 / 88
p0 −0.564 ± 0.409
pull
Entries 89
Mean 320.5
Std Dev 0

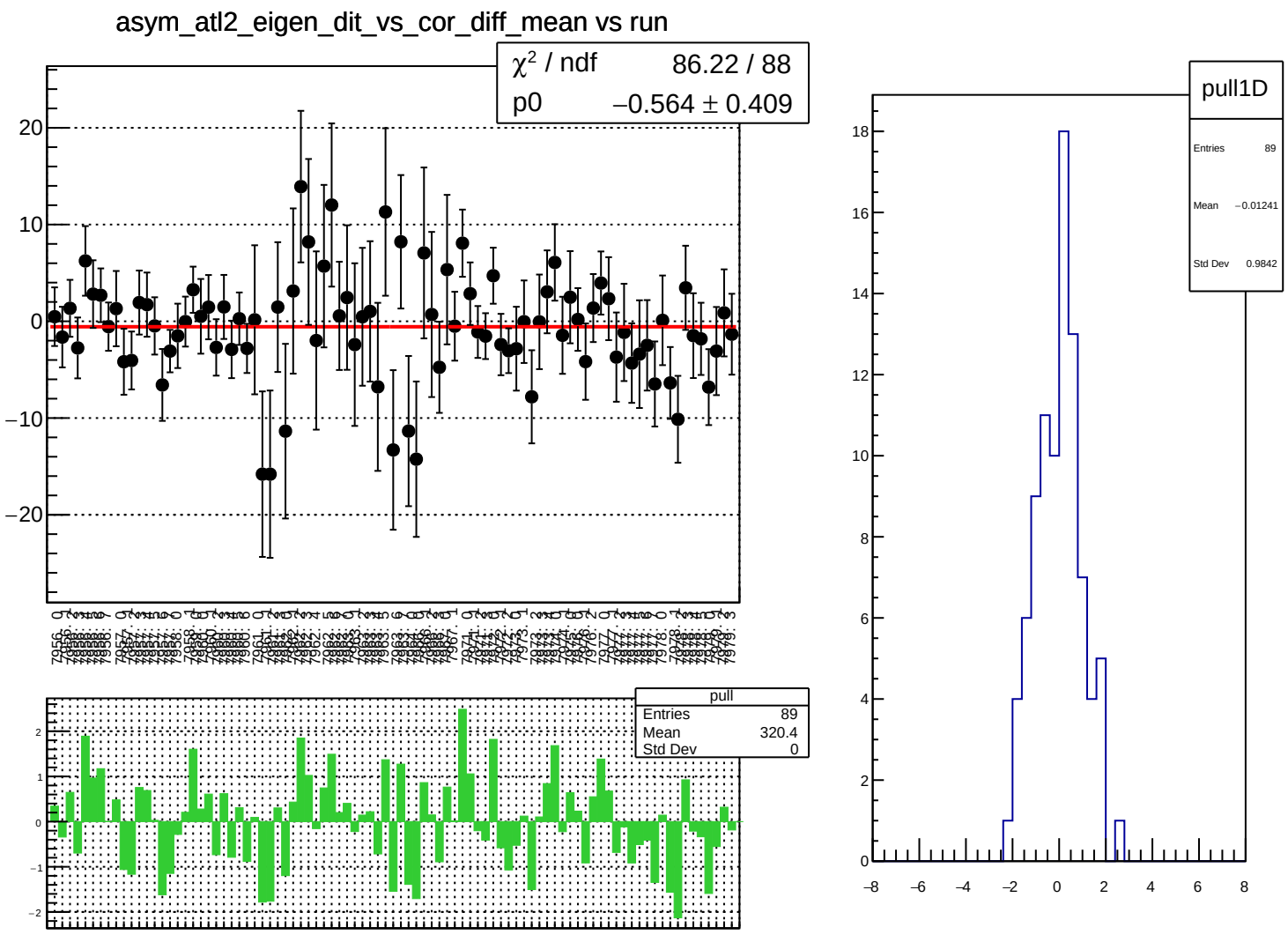

pull1D
Entries 89
Mean −0.01241
Std Dev 0.9842

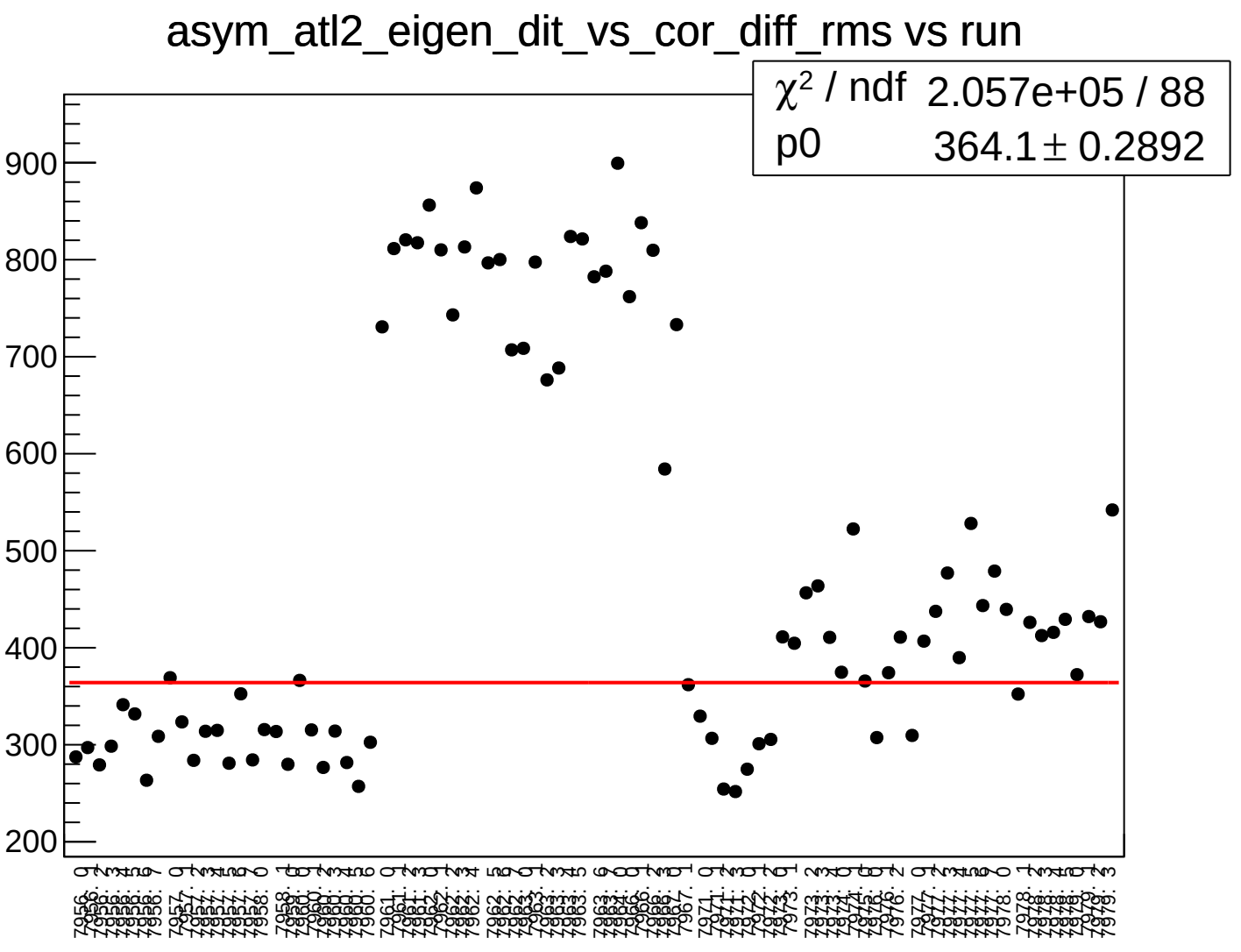

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.057e+05 / 88
p0 364.1 ± 0.2892
900
800
700
600
500
400
300
200

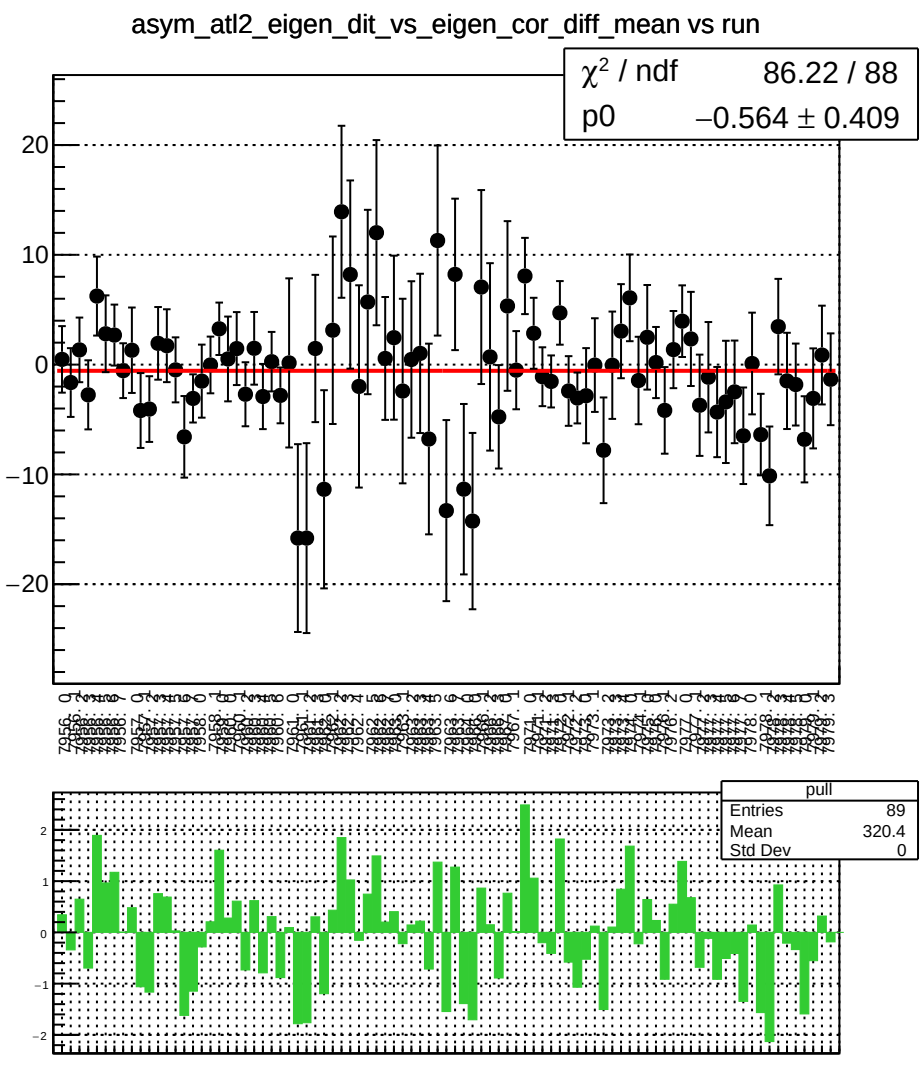

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 66.69 / 88
p0 −2.473e−05 ± 1.806e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 2.947
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

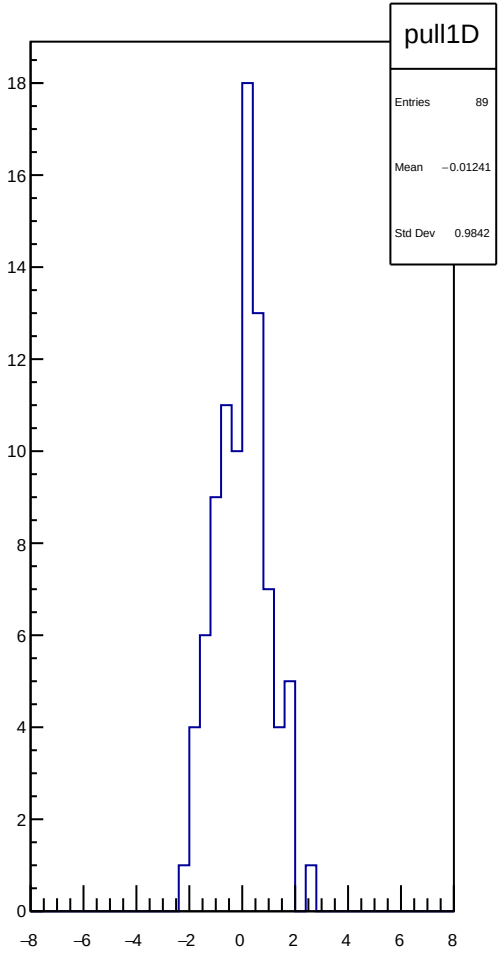

pull1D
Entries 89
Mean 0.0325
Std Dev 0.8651
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

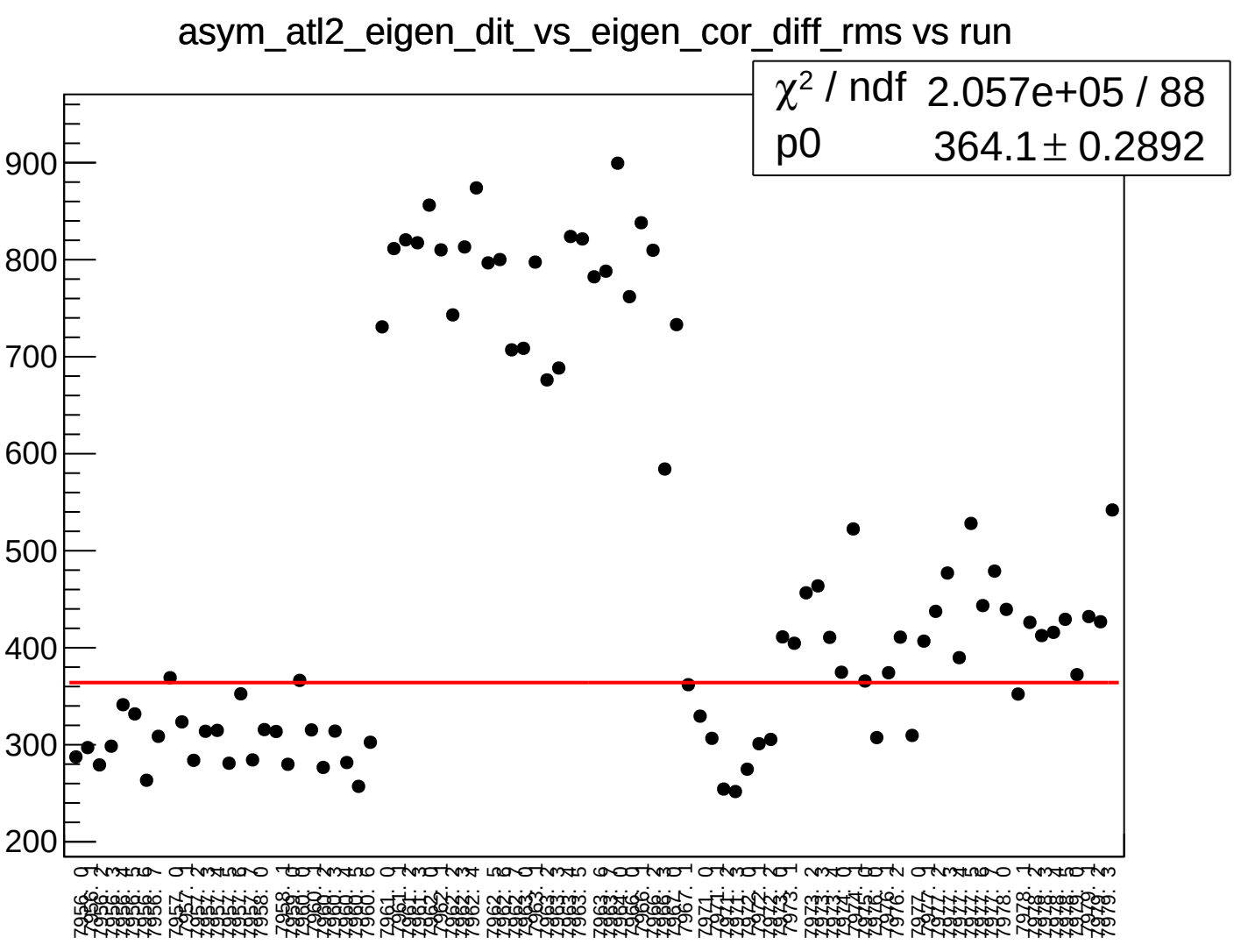

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.099e+05 / 88
p0 0.01606 ± 1.277e−05
0.035
0.03
0.025
0.02
0.015

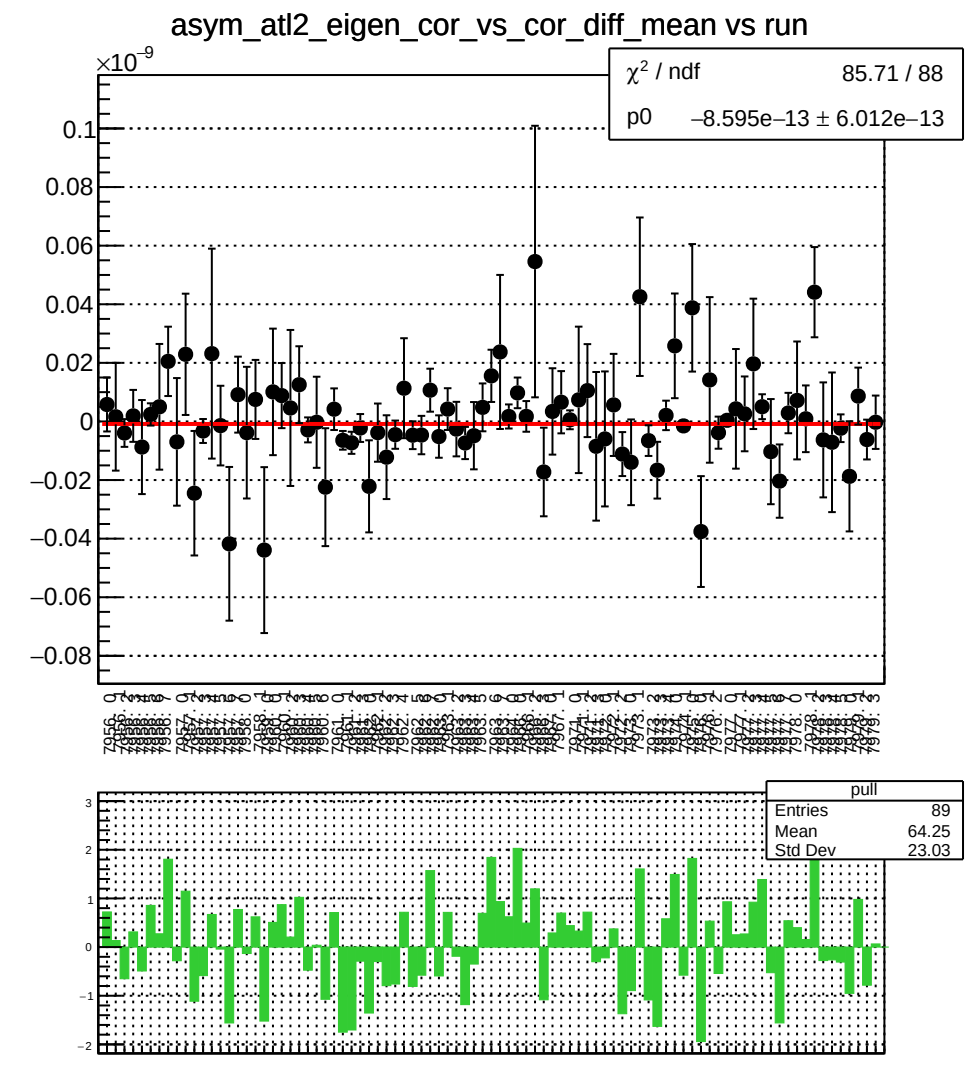

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.22 / 88
p0 −0.564 ± 0.409
20
10
0
−10
−20
pull
Entries 89
Mean 320.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01241
Std Dev 0.9842
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

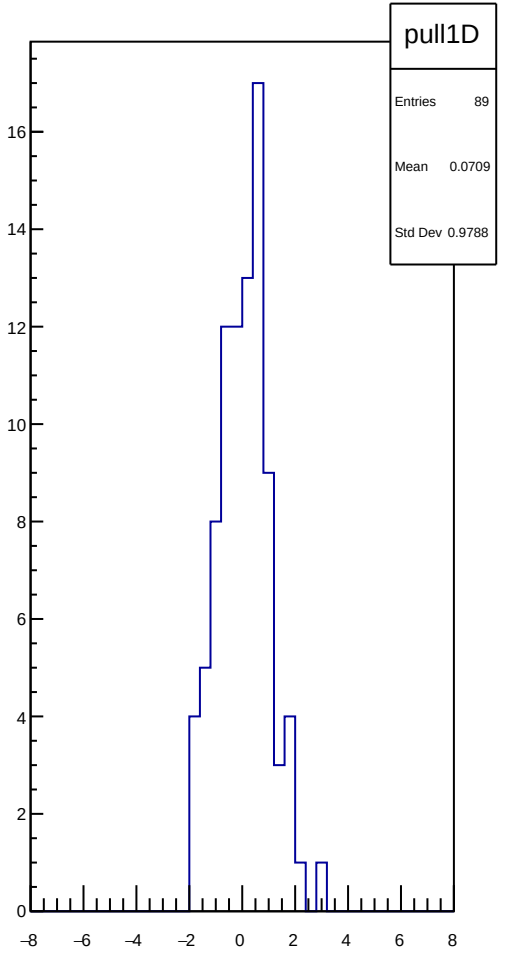

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.057e+05 / 88
p0 364.1 ± 0.2892
900
800
700
600
500
400
300
200

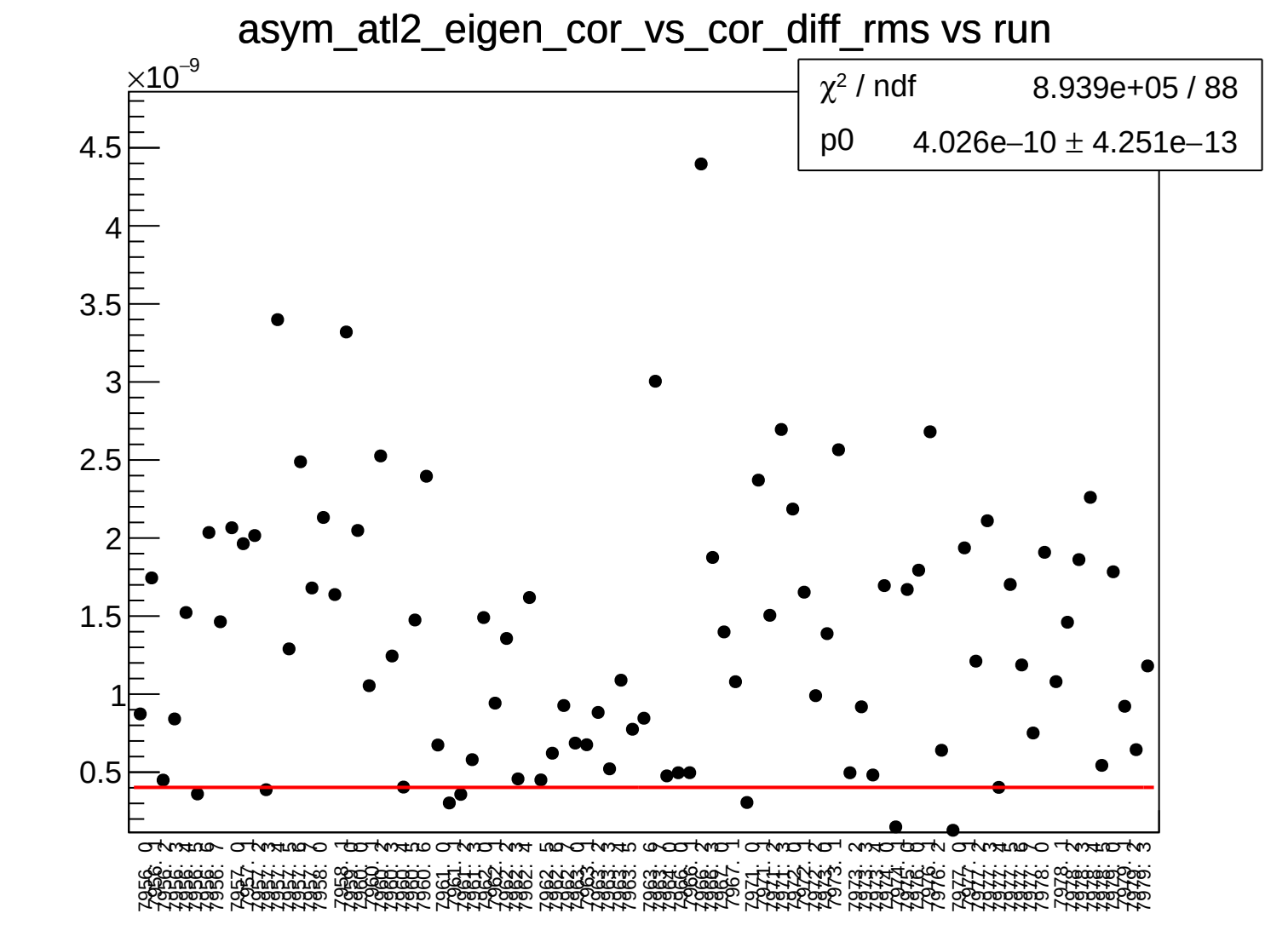

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.22 / 88
p0 −0.564 ± 0.409
pull
Entries 89
Mean 320.4
Std Dev 0

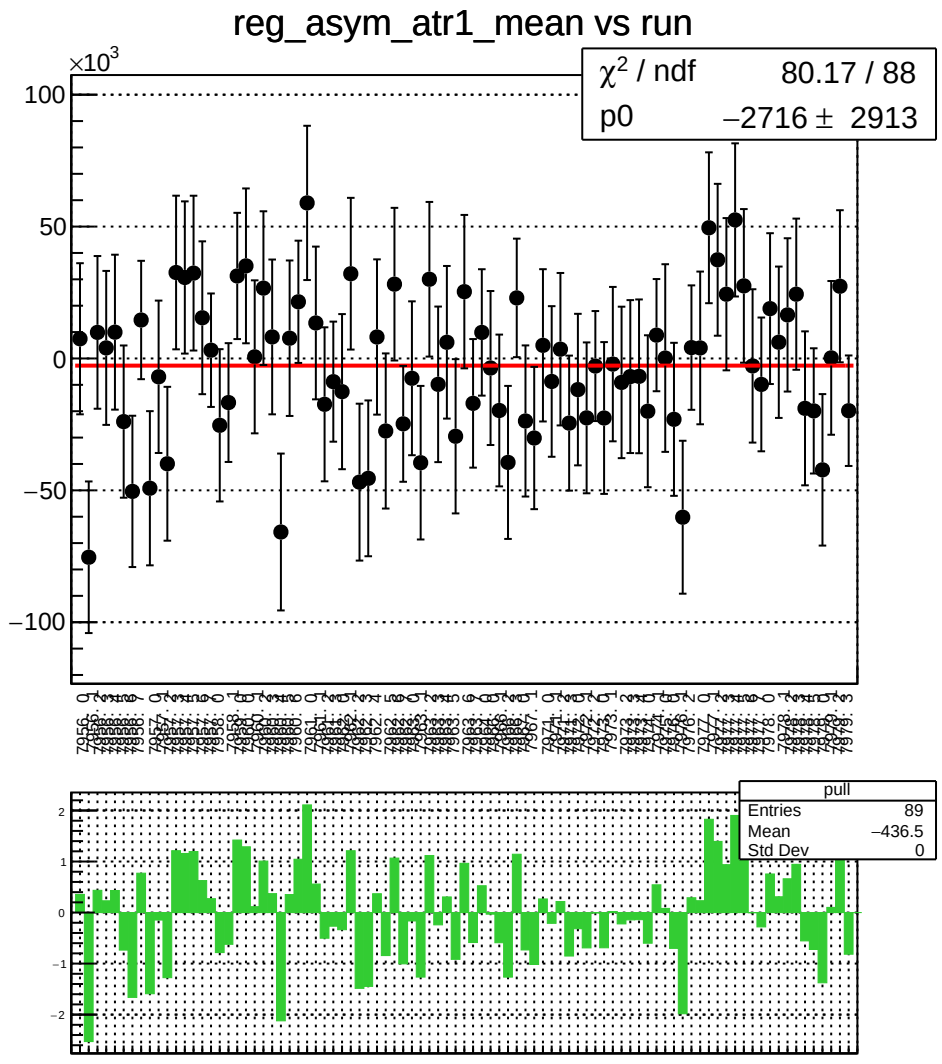

pull1D
Entries 89
Mean −0.01241
Std Dev 0.9842

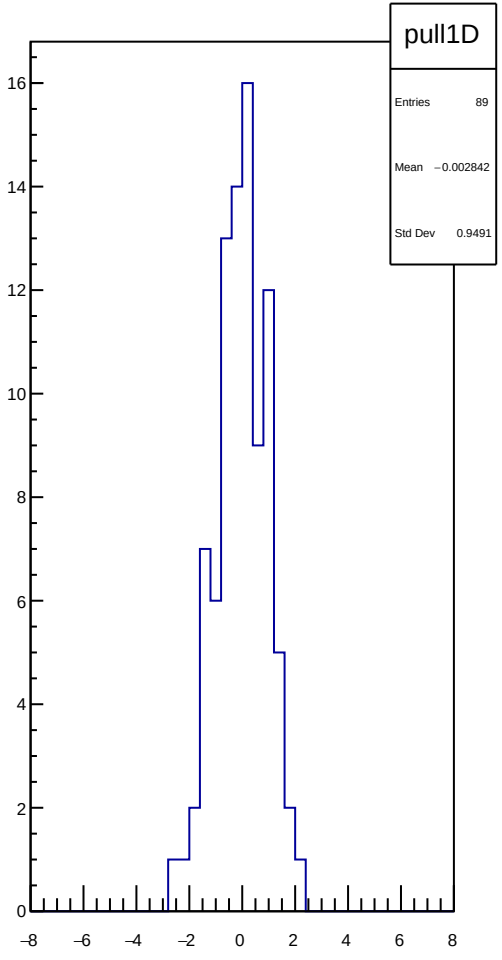

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.057e+05 / 88
p0 364.1 ± 0.2892
900
800
700
600
500
400
300
200

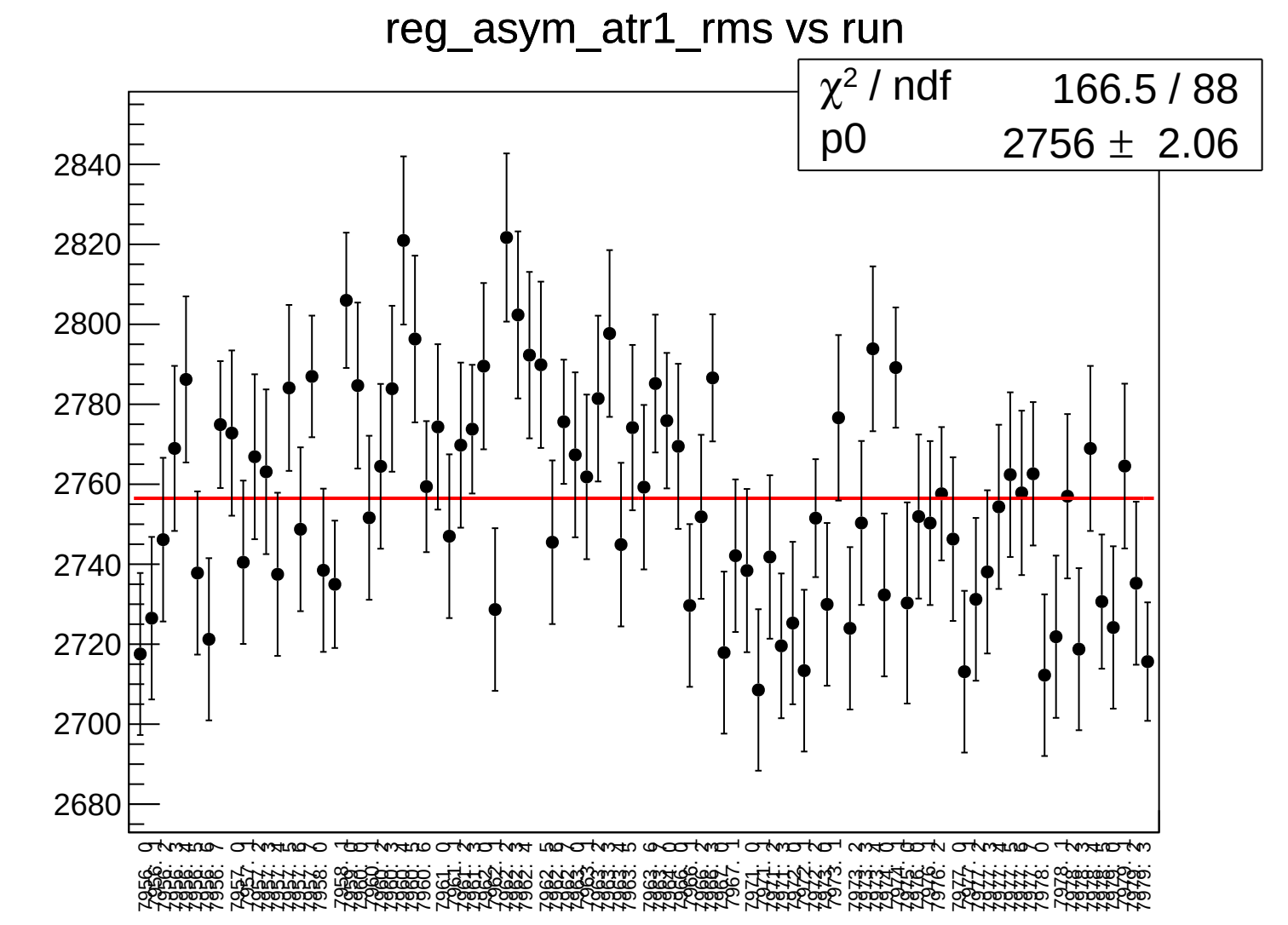

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 85.71 / 88
p0 −8.595e−13 ± 6.012e−13
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean 64.25
Std Dev 23.03
3
2
1
0
−1
−2

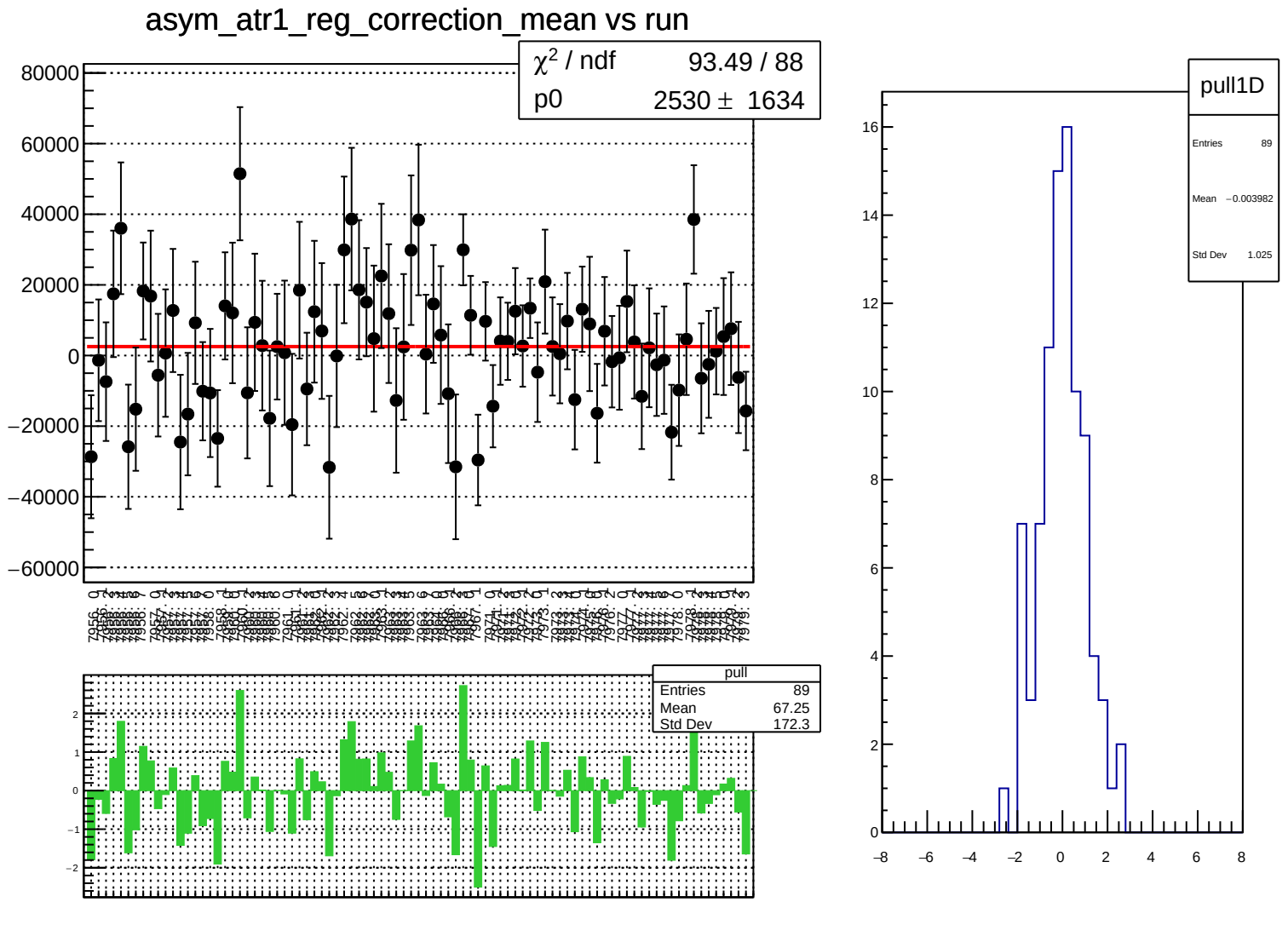

pull1D
Entries 89
Mean 0.0709
Std Dev 0.9788
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

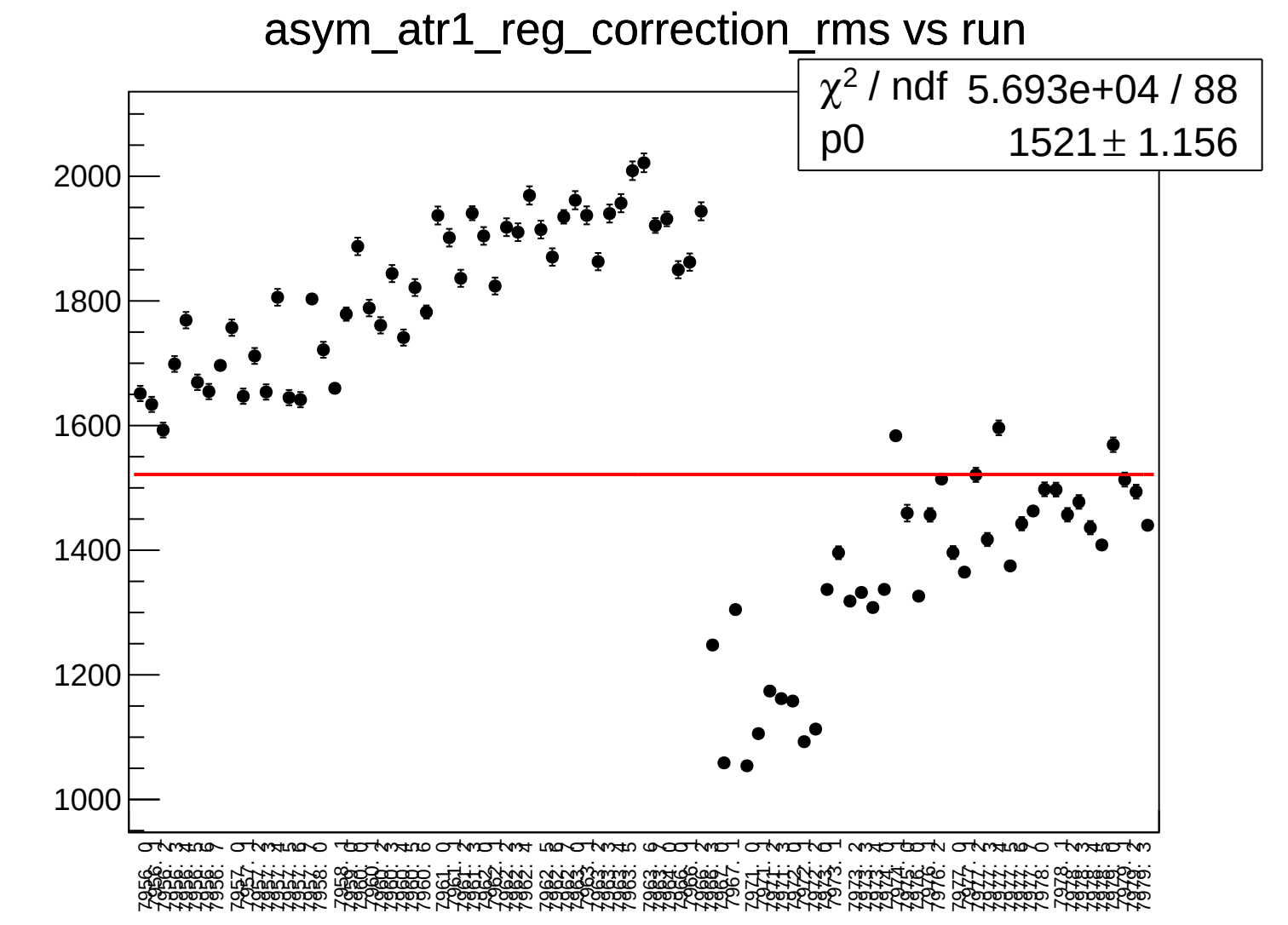

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.939e+05 / 88
p0 4.026e−10 ± 4.251e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

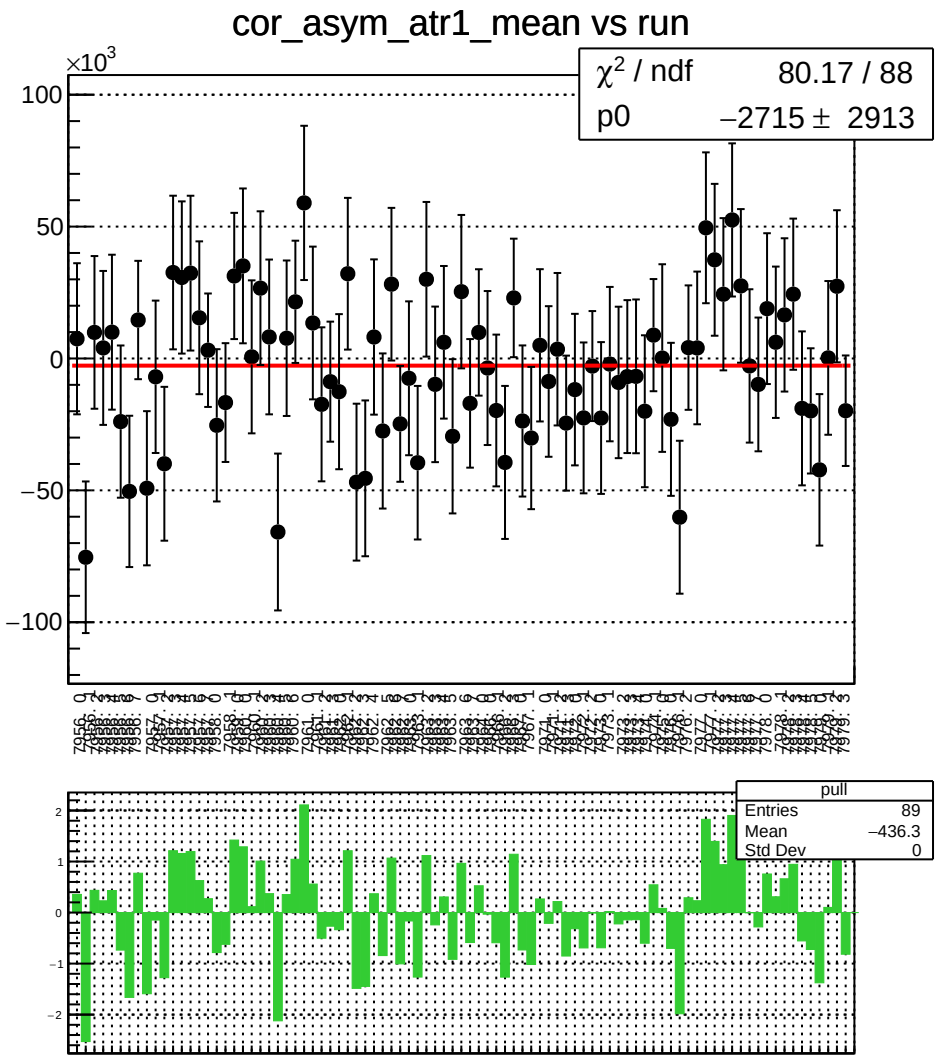

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 80.17 / 88
p0 −2716 ± 2913
100
50
0
−50
−100
pull
Entries 89
Mean −436.5
Std Dev 0
2
1
0
−1
−2

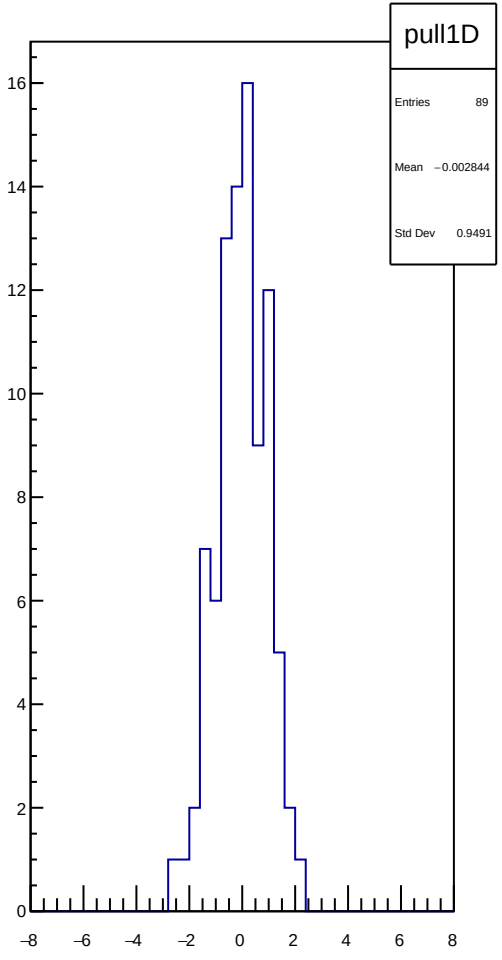

pull1D
Entries 89
Mean −0.002842
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

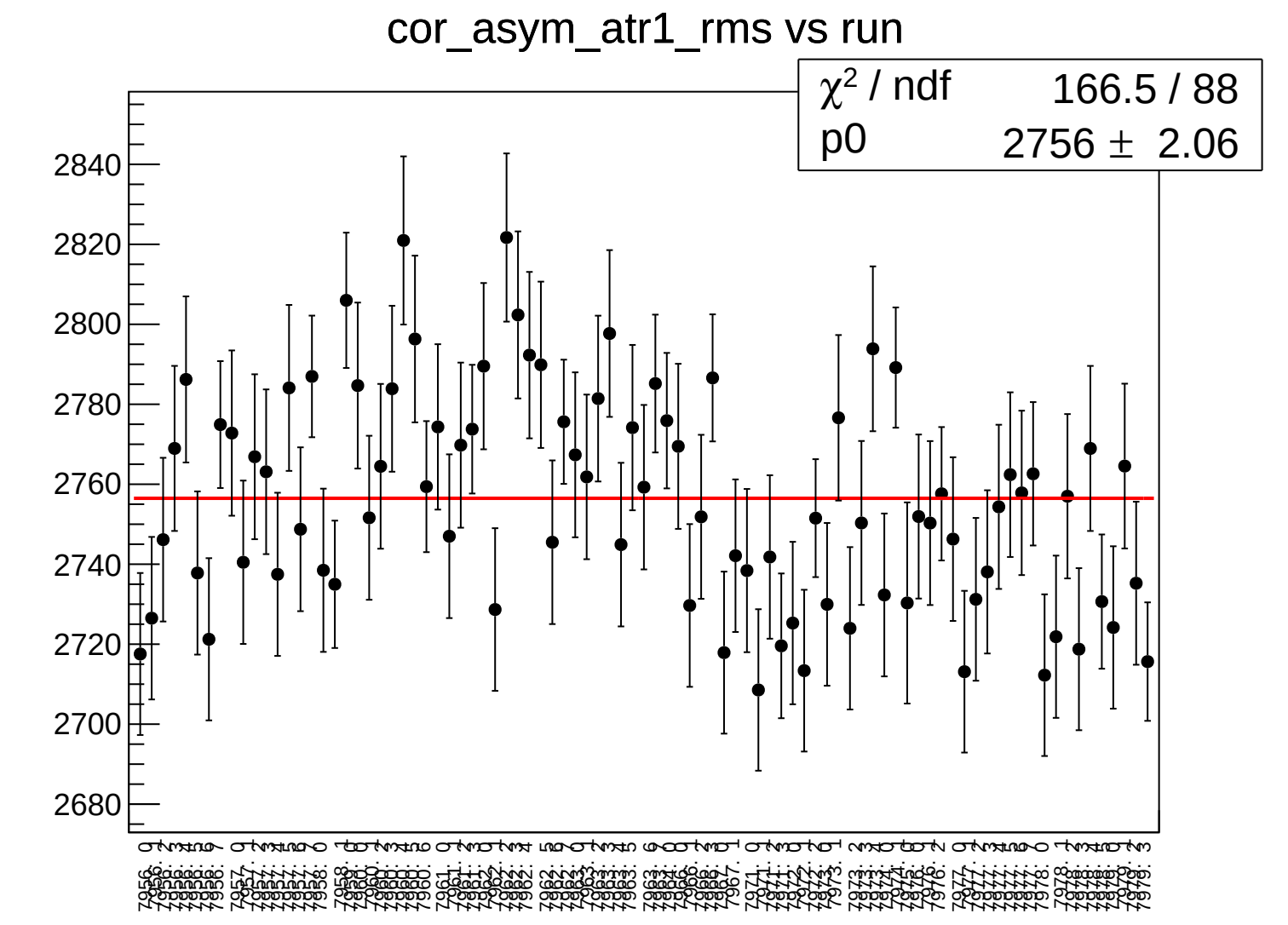

reg_asym_atr1_rms vs run
χ² / ndf 166.5 / 88
p0 2756 ± 2.06
2840
2820
2800
2780
2760
2740
2720
2700
2680

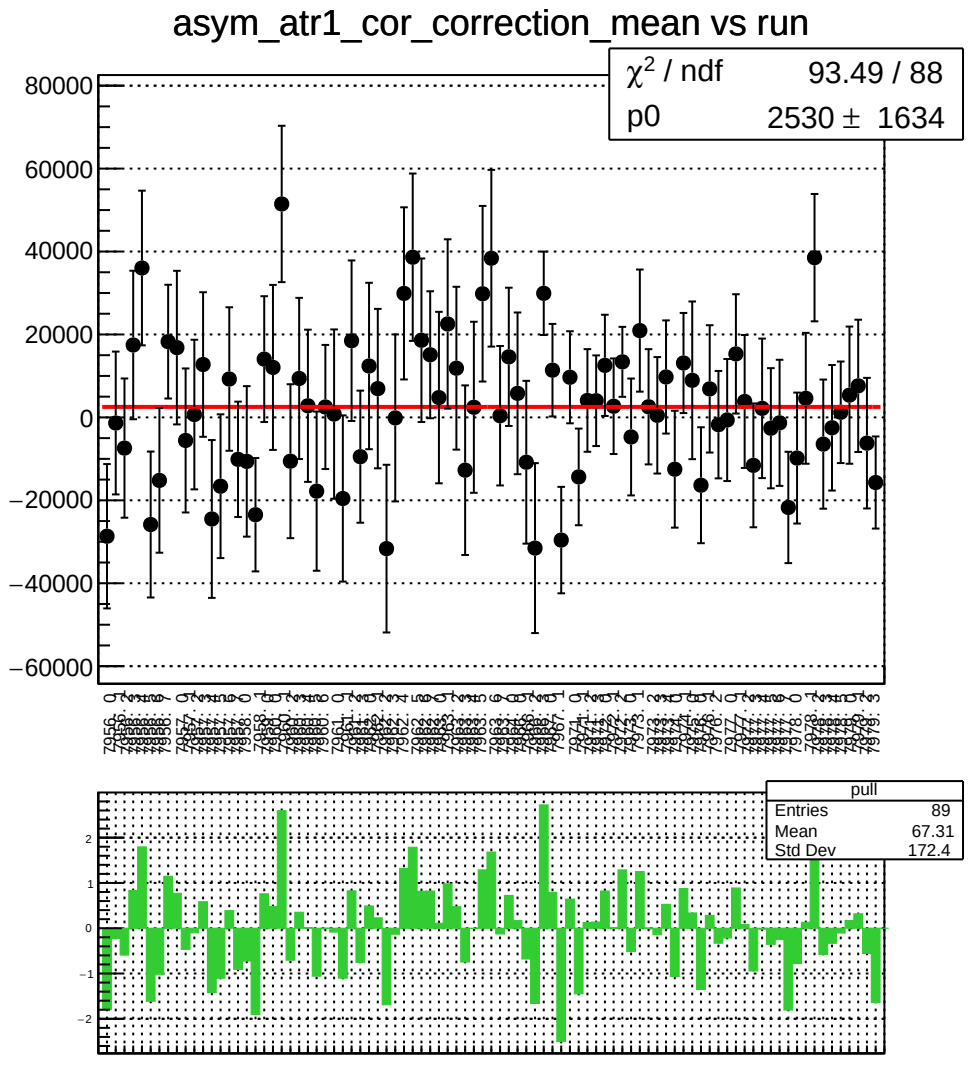

asym_atr1_reg_correction_mean vs run
χ² / ndf 93.49 / 88
p0 2530 ± 1634
pull
Entries 89
Mean 67.25
Std Dev 172.3
pull1D
Entries 89
Mean −0.003982
Std Dev 1.025

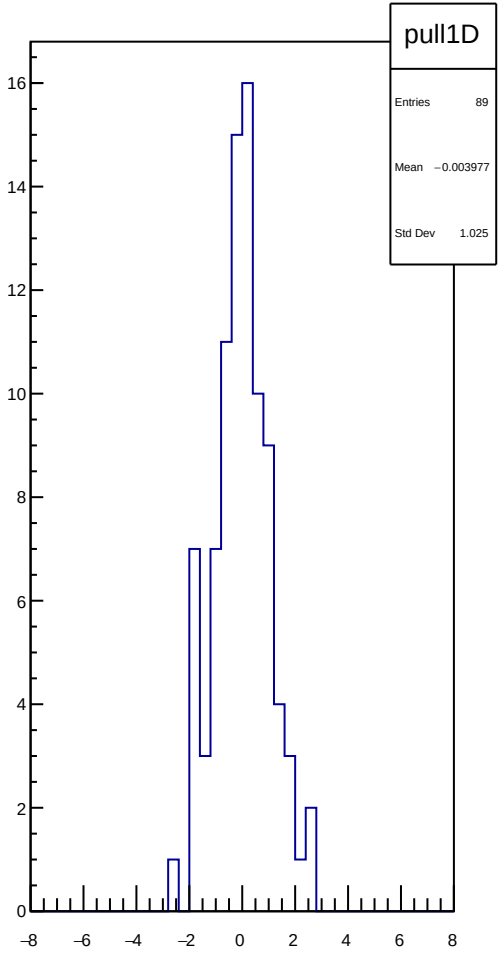

asym_atr1_reg_correction_rms vs run
χ² / ndf 5.693e+04 / 88
p0 1521 ± 1.156
2000
1800
1600
1400
1200
1000

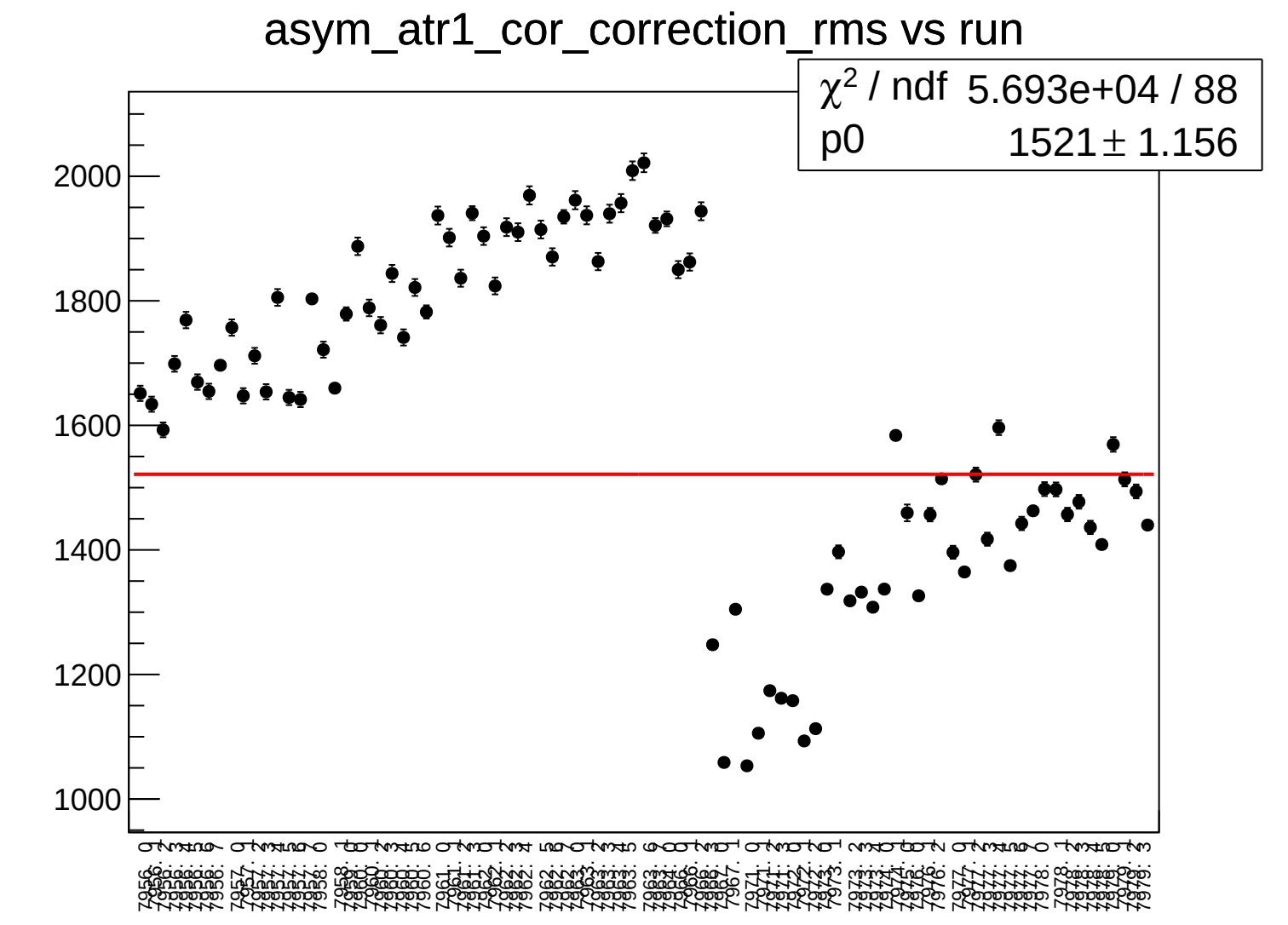

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 80.17 / 88
p0 −2715 ± 2913
100
50
0
−50
−100
pull
Entries 89
Mean −436.3
Std Dev 0
2
1
0
−1
−2

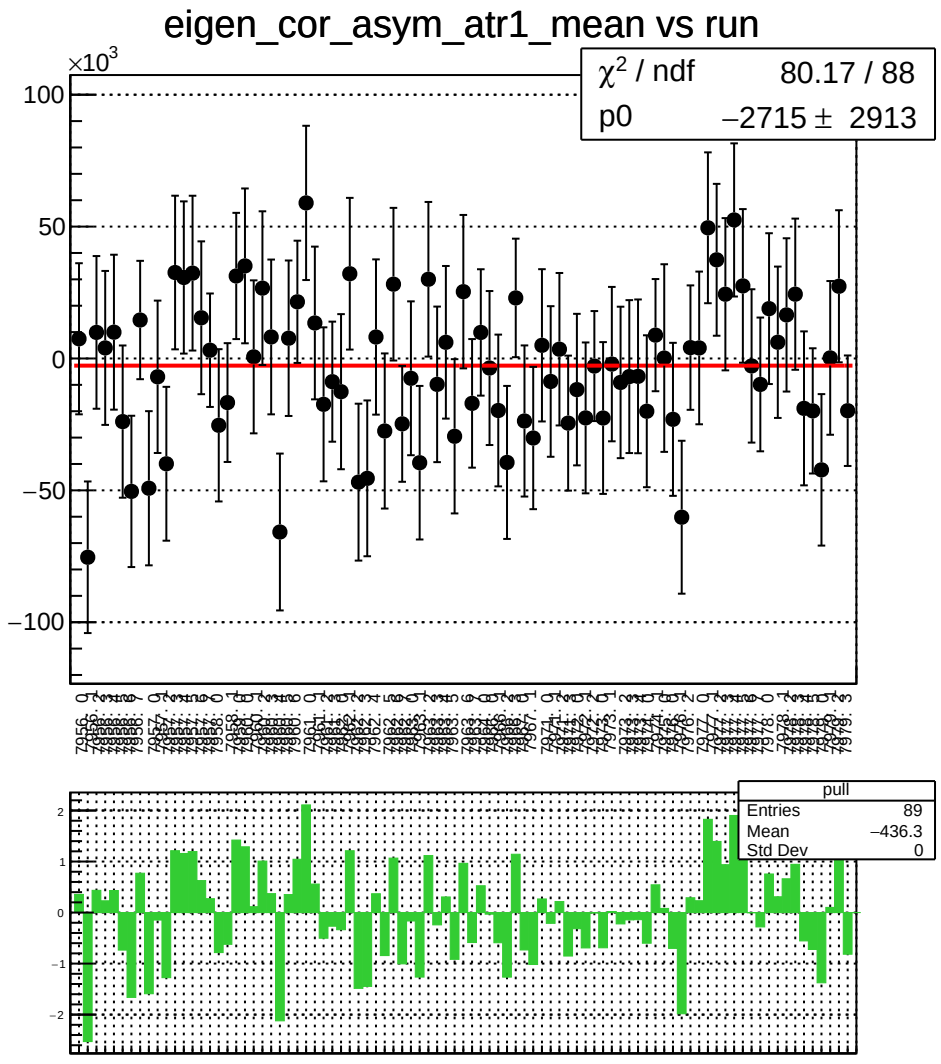

pull1D
Entries 89
Mean −0.002844
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

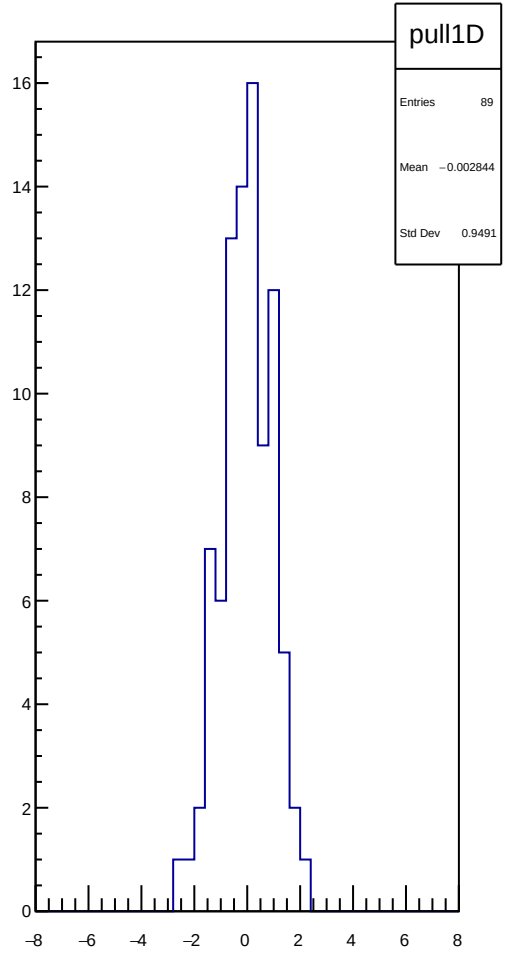

cor_asym_atr1_rms vs run
χ² / ndf 166.5 / 88
p0 2756 ± 2.06
2840
2820
2800
2780
2760
2740
2720
2700
2680

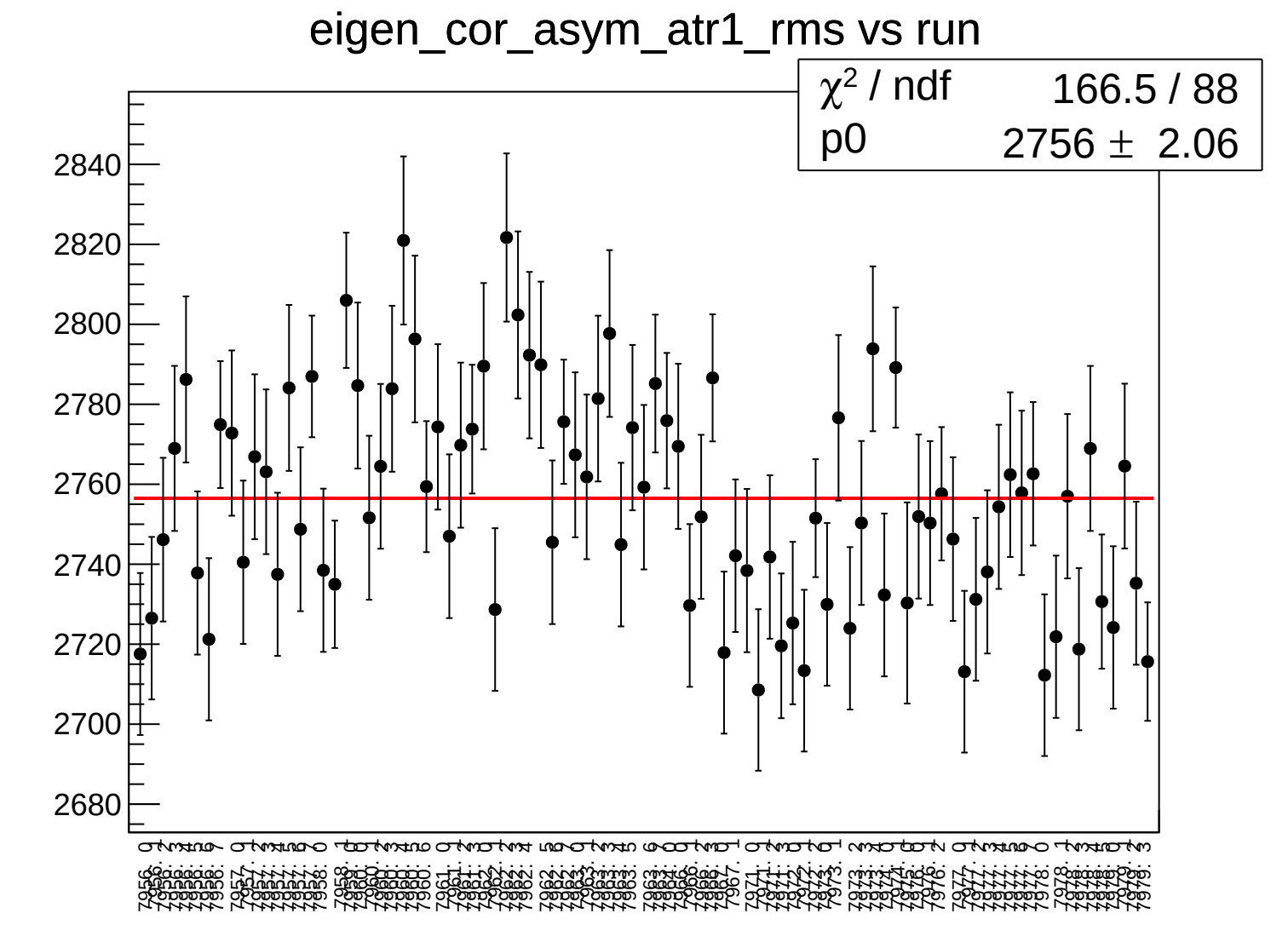

asym_atr1_cor_correction_mean vs run
χ² / ndf 93.49 / 88
p0 2530 ± 1634
pull
Entries 89
Mean 67.31
Std Dev 172.4

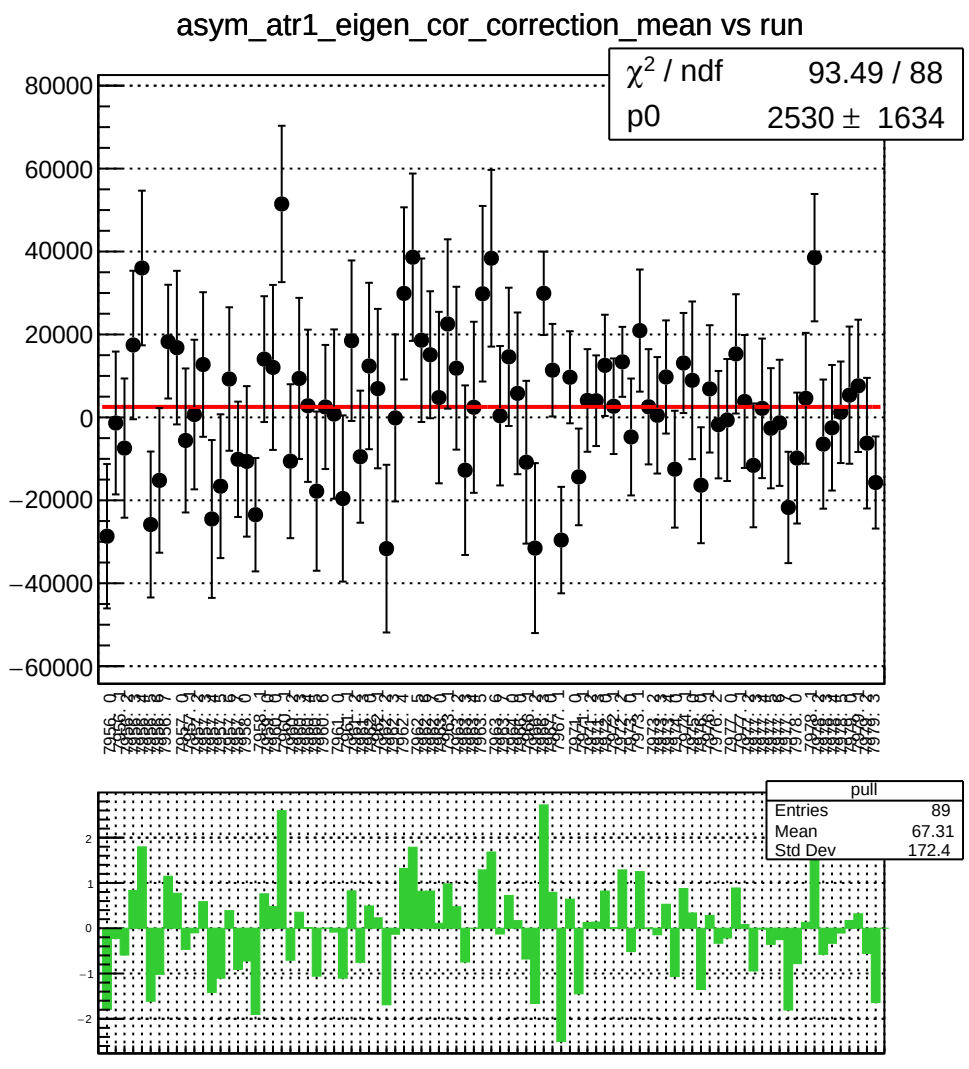

pull1D
Entries 89
Mean −0.003977
Std Dev 1.025

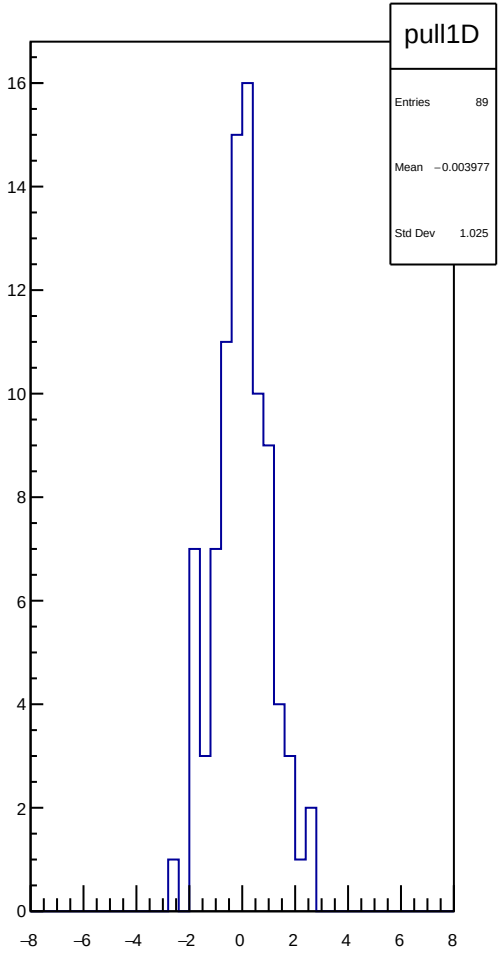

asym_atr1_cor_correction_rms vs run
χ² / ndf 5.693e+04 / 88
p0 1521 ± 1.156
2000
1800
1600
1400
1200
1000

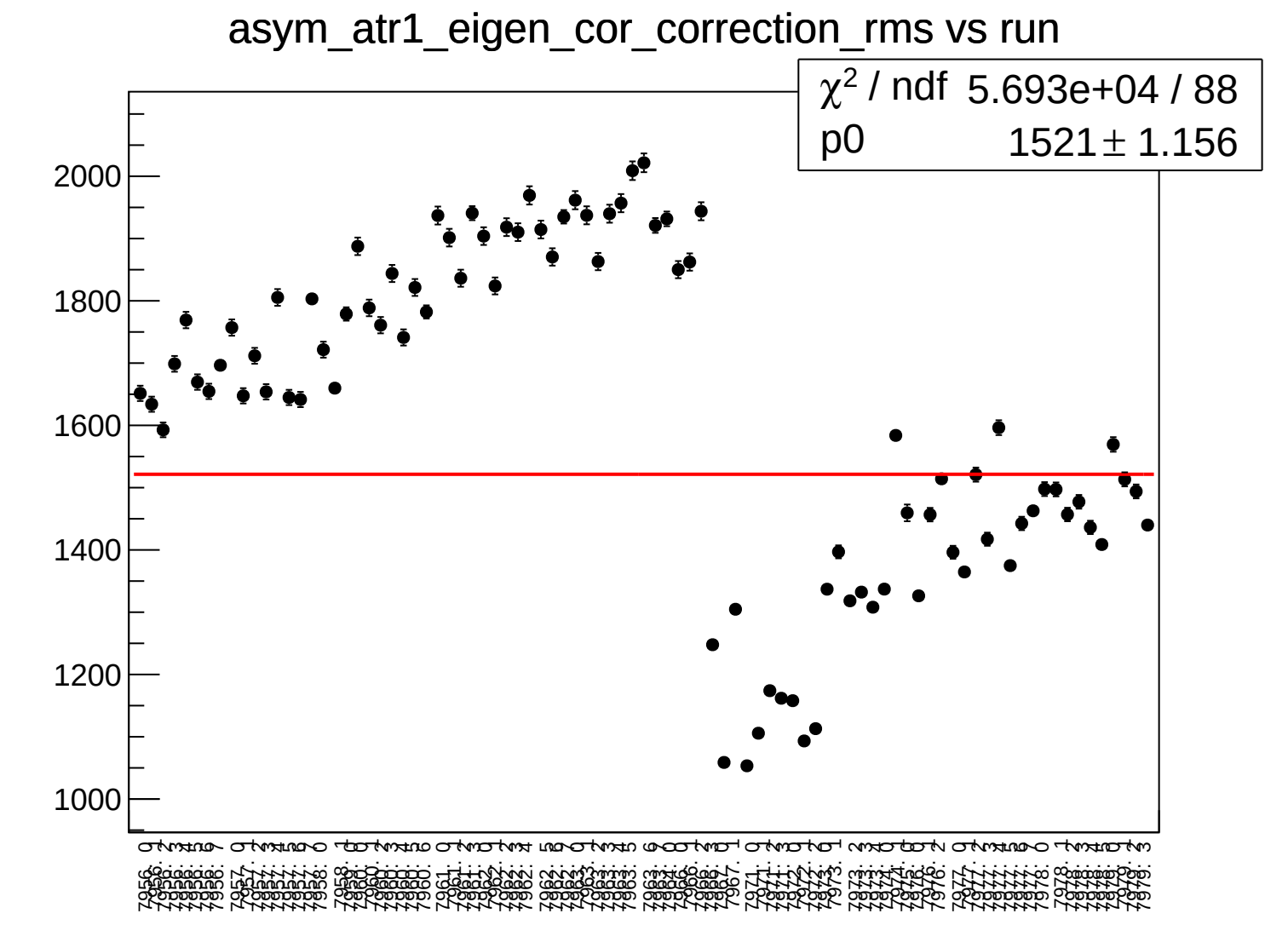

eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 80.17 / 88
p0 −2715 ± 2913
100
50
0
−50
−100
pull
Entries 89
Mean −436.3
Std Dev 0
2
1
0
−1
−2

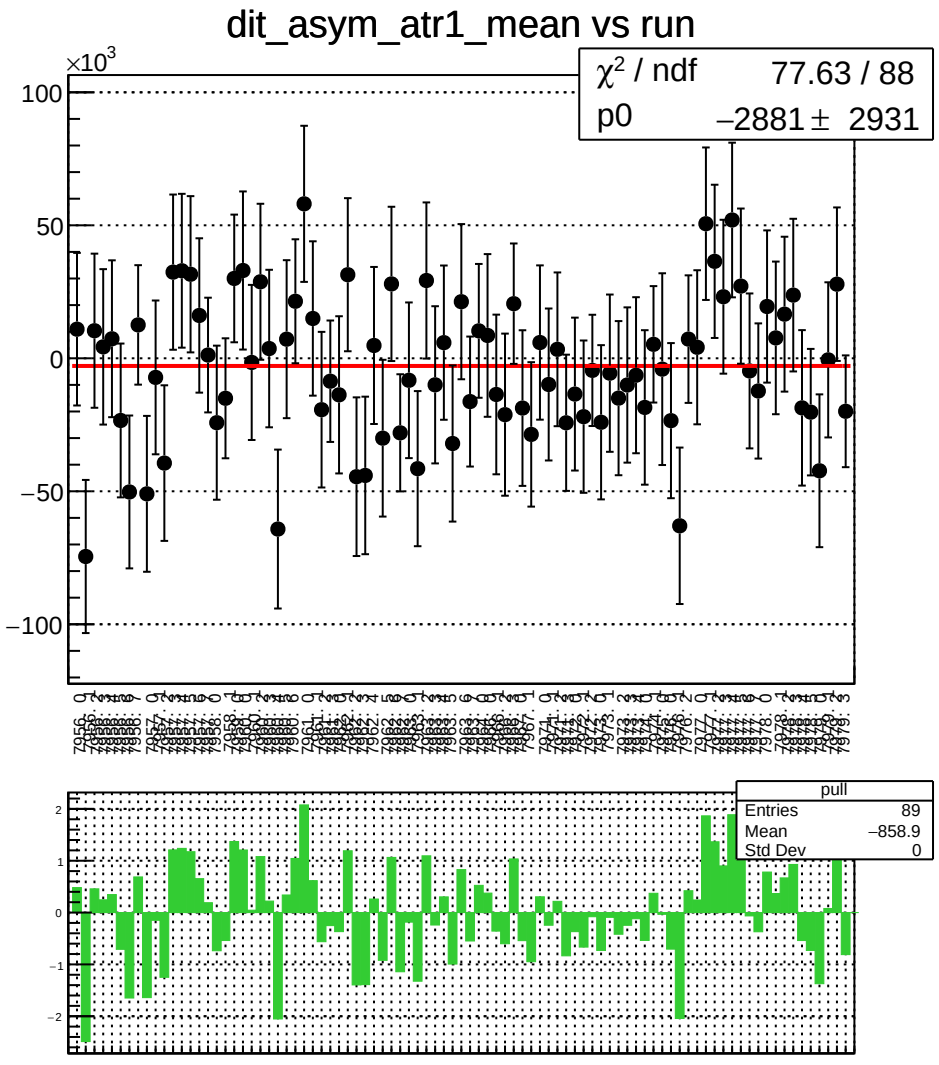

pull1D
Entries 89
Mean −0.002844
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

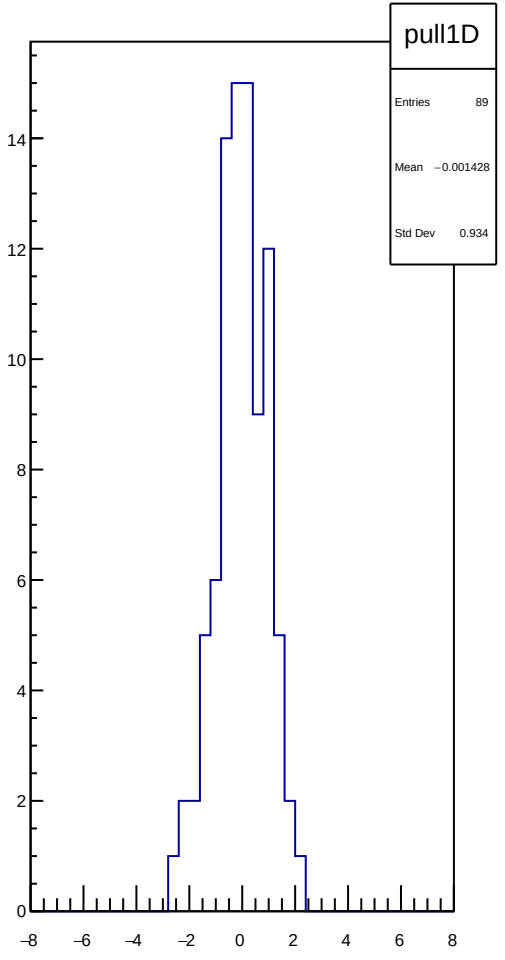

eigen_cor_asym_atr1_rms vs run
χ² / ndf 166.5 / 88
p0 2756 ± 2.06
2840
2820
2800
2780
2760
2740
2720
2700
2680

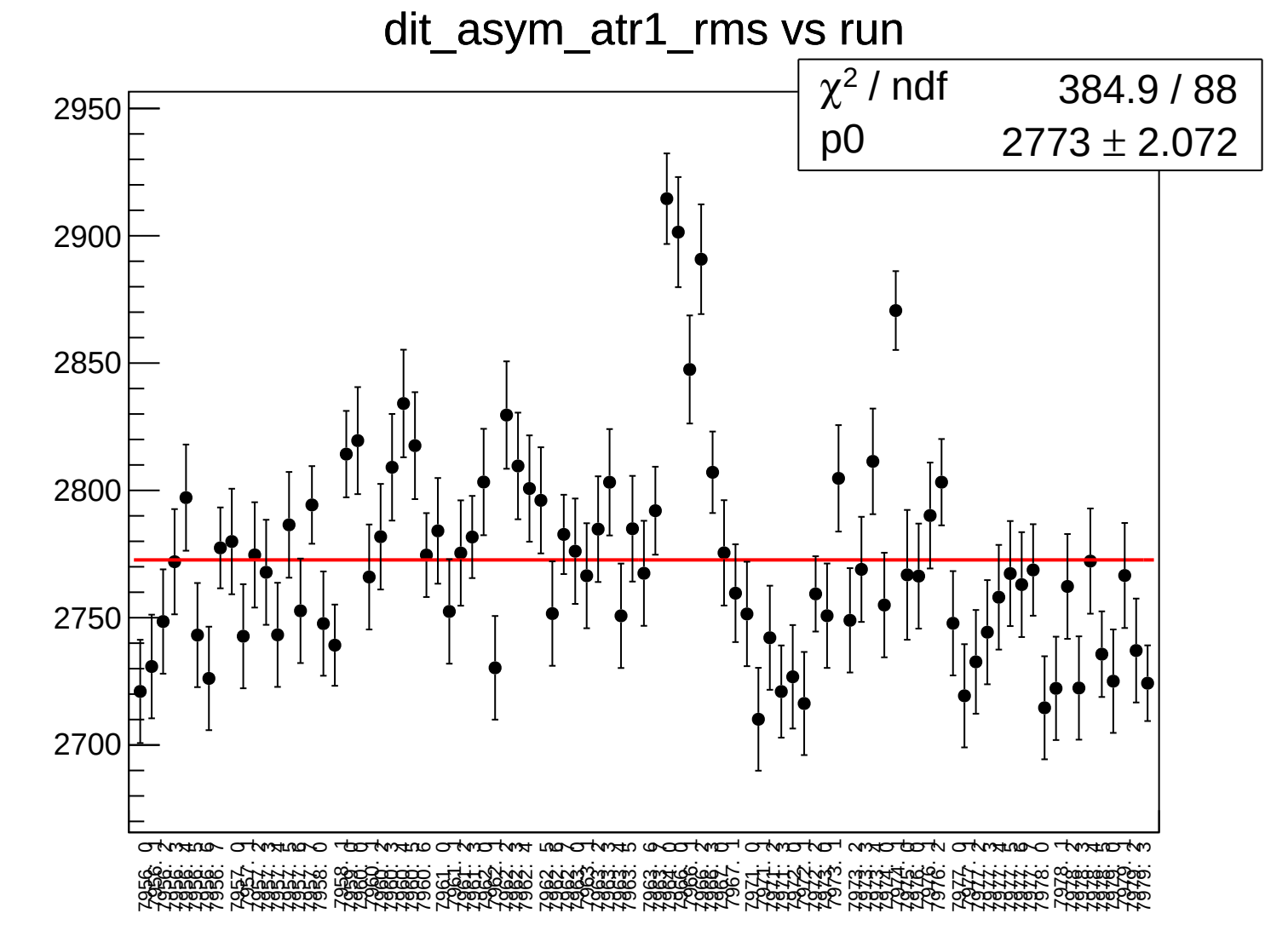

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 93.49 / 88
p0 2530 ± 1634
pull
Entries 89
Mean 67.31
Std Dev 172.4

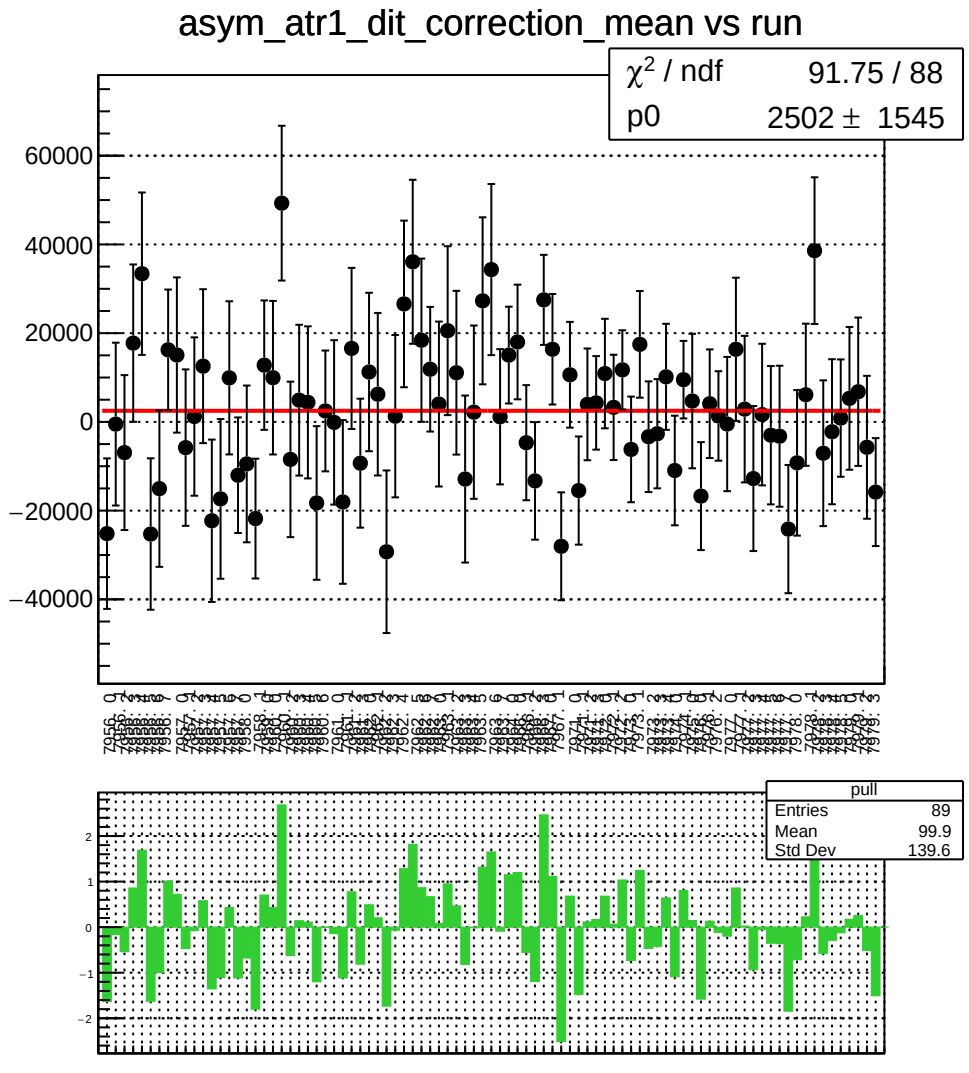

pull1D
Entries 89
Mean −0.003977
Std Dev 1.025

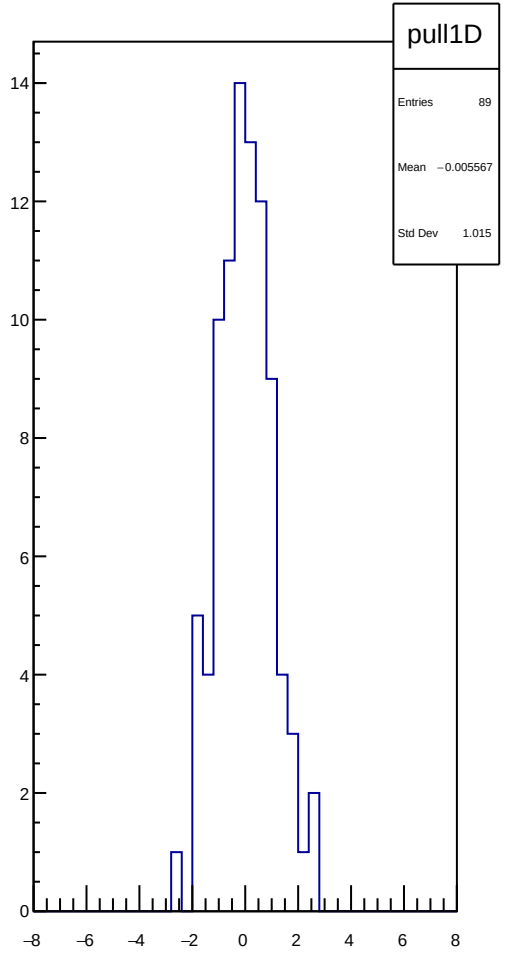

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 5.693e+04 / 88
p0 1521 ± 1.156
2000
1800
1600
1400
1200
1000

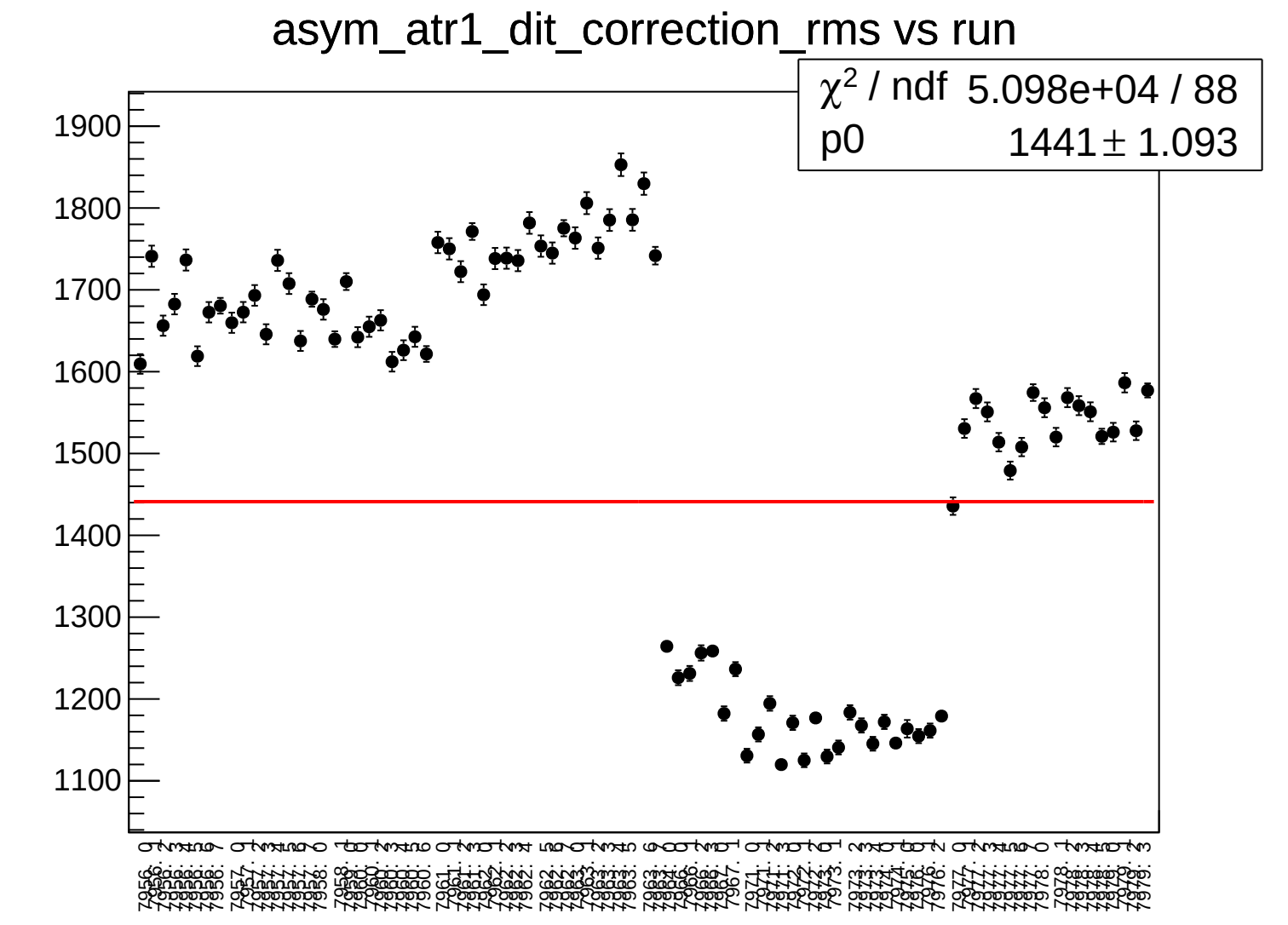

dit_asym_atr1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 77.63 / 88
p0 −2881 ± 2931
pull
Entries 89
Mean −858.9
Std Dev 0
2
1
0
−1
−2

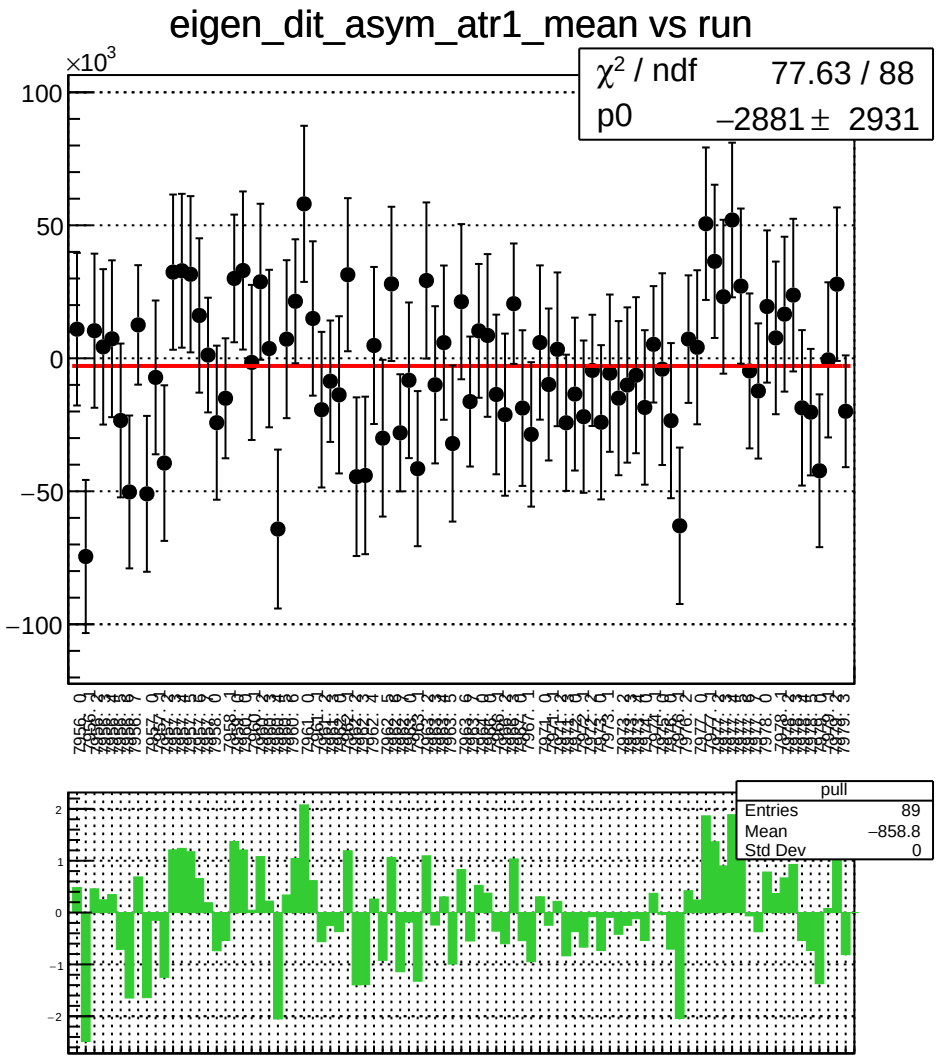

pull1D
Entries 89
Mean −0.001428
Std Dev 0.934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

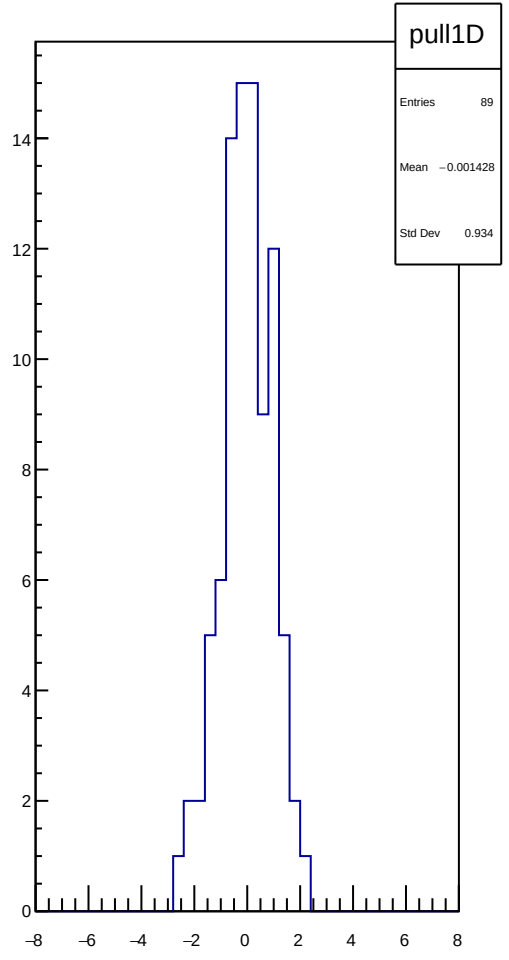

dit_asym_atr1_rms vs run
χ² / ndf 384.9 / 88
p0 2773 ± 2.072
2950
2900
2850
2800
2750
2700

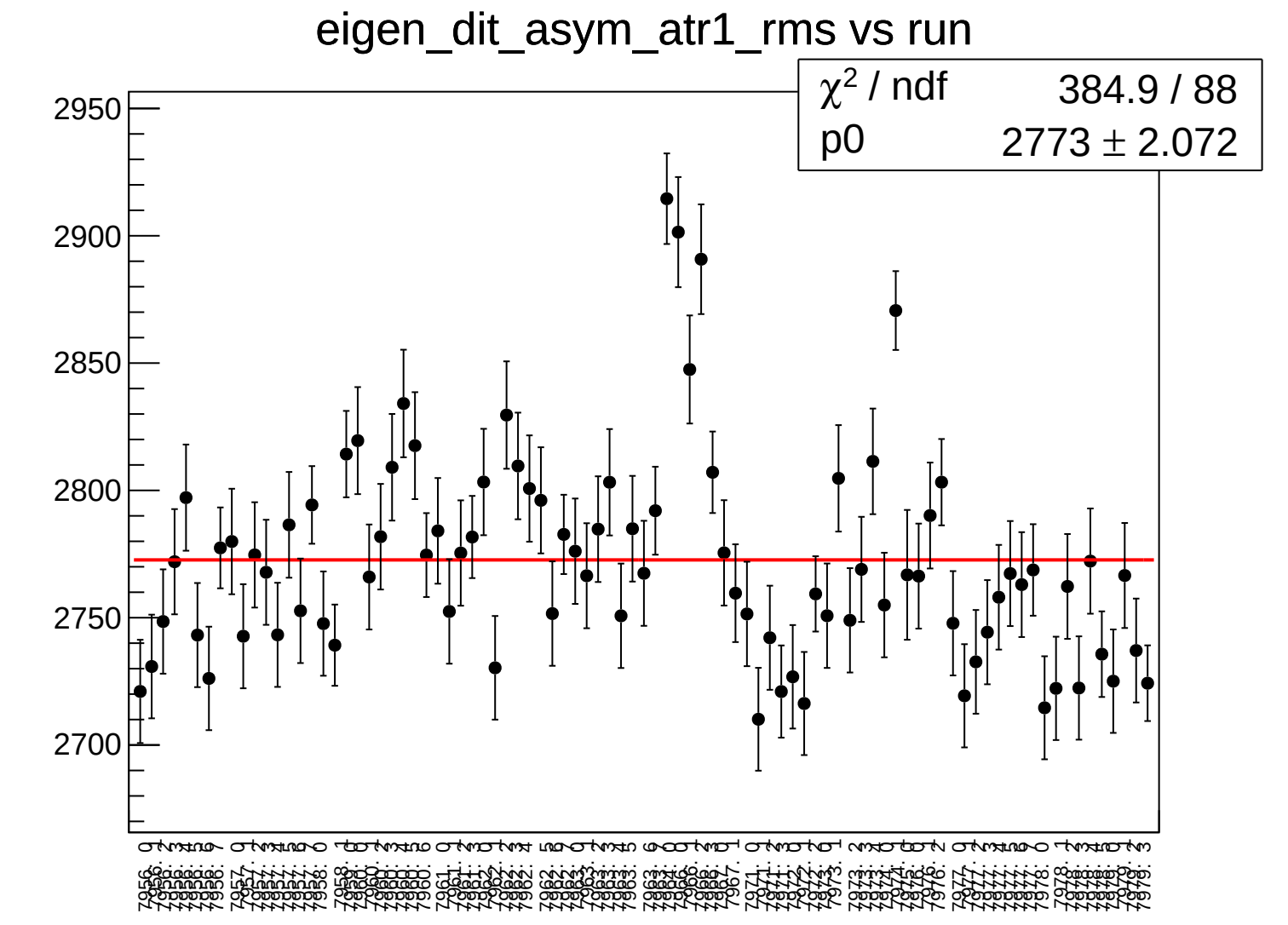

asym_atr1_dit_correction_mean vs run
χ² / ndf 91.75 / 88
p0 2502 ± 1545
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 99.9
Std Dev 139.6
2
1
0
−1
−2

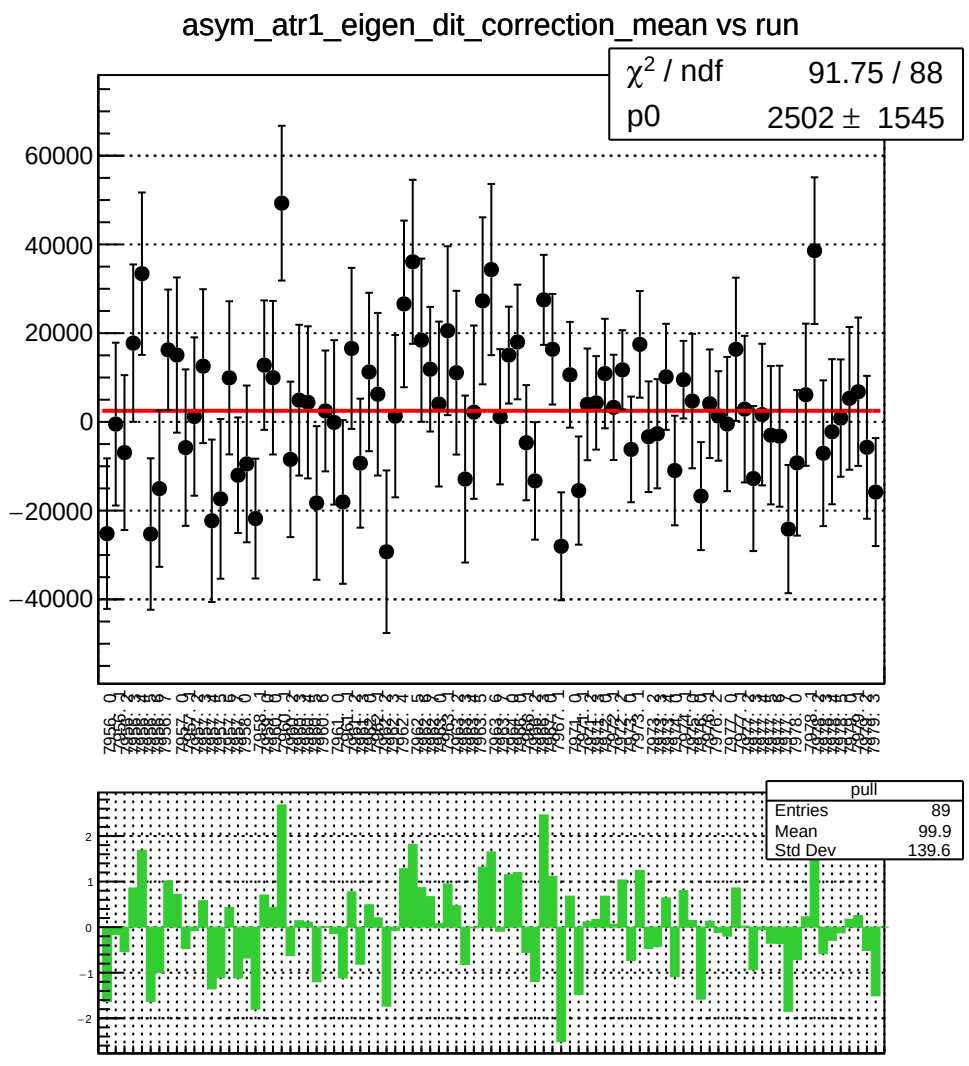

pull1D
Entries 89
Mean −0.005567
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

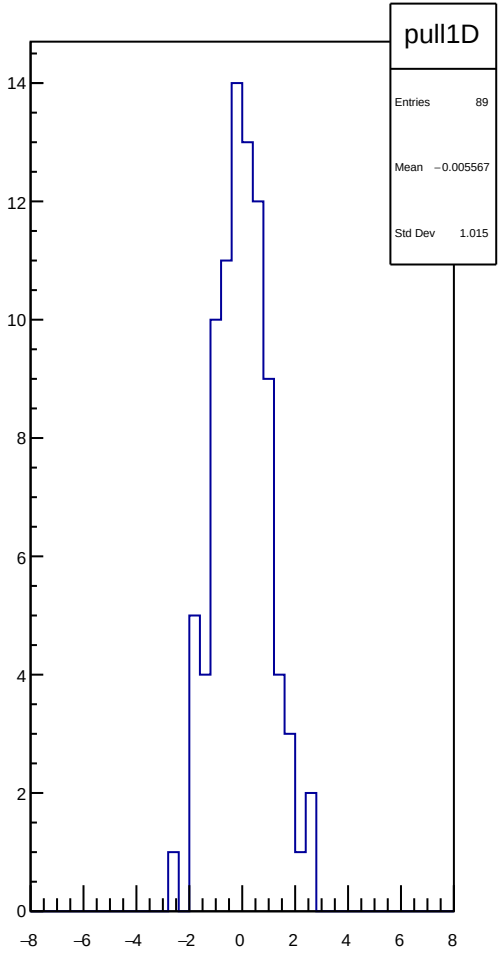

asym_atr1_dit_correction_rms vs run
χ² / ndf 5.098e+04 / 88
p0 1441 ± 1.093
1900
1800
1700
1600
1500
1400
1300
1200
1100

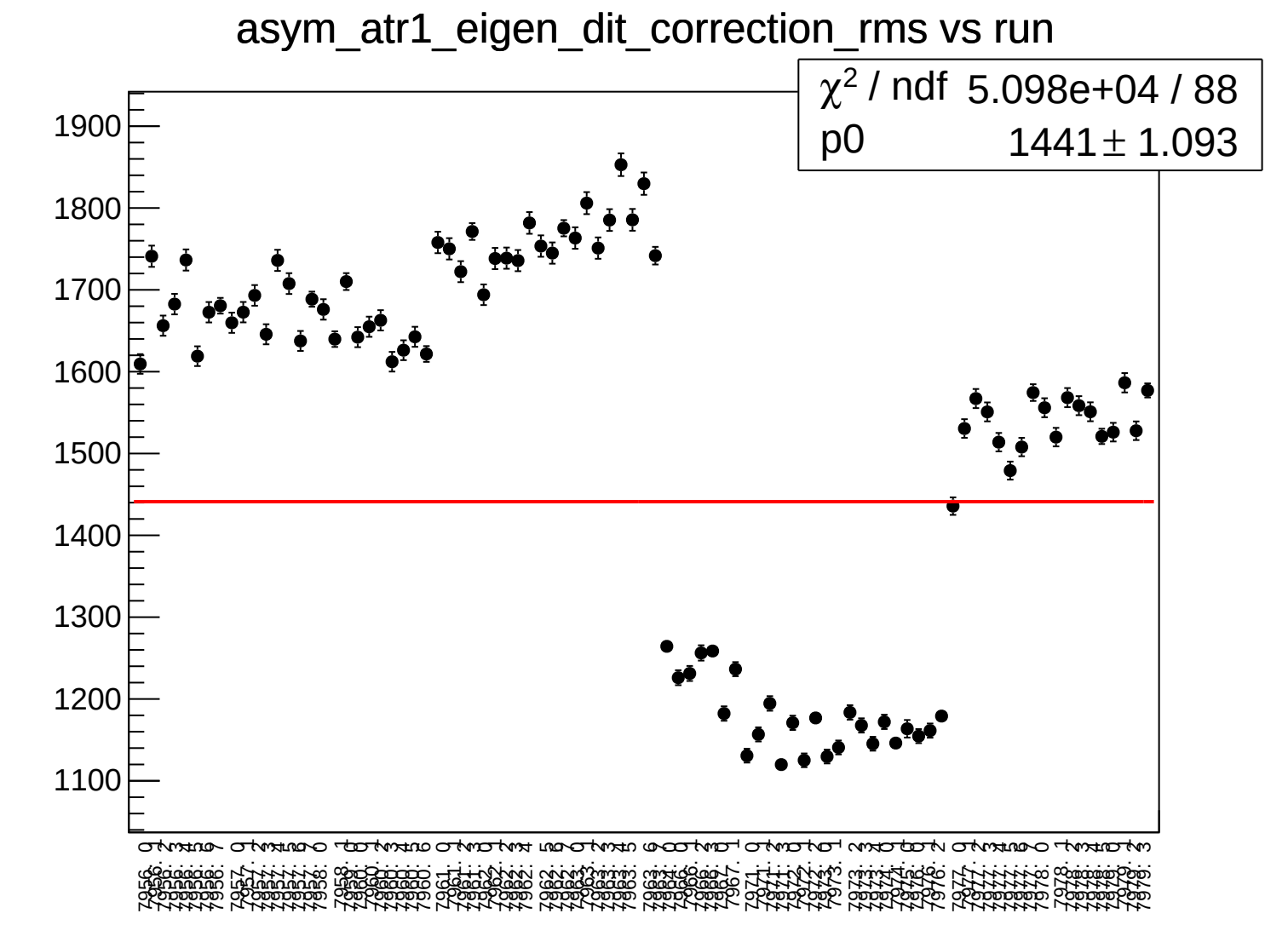

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 77.63 / 88
p0 −2881 ± 2931
100
50
0
−50
−100
pull
Entries 89
Mean −858.8
Std Dev 0
2
1
0
−1
−2

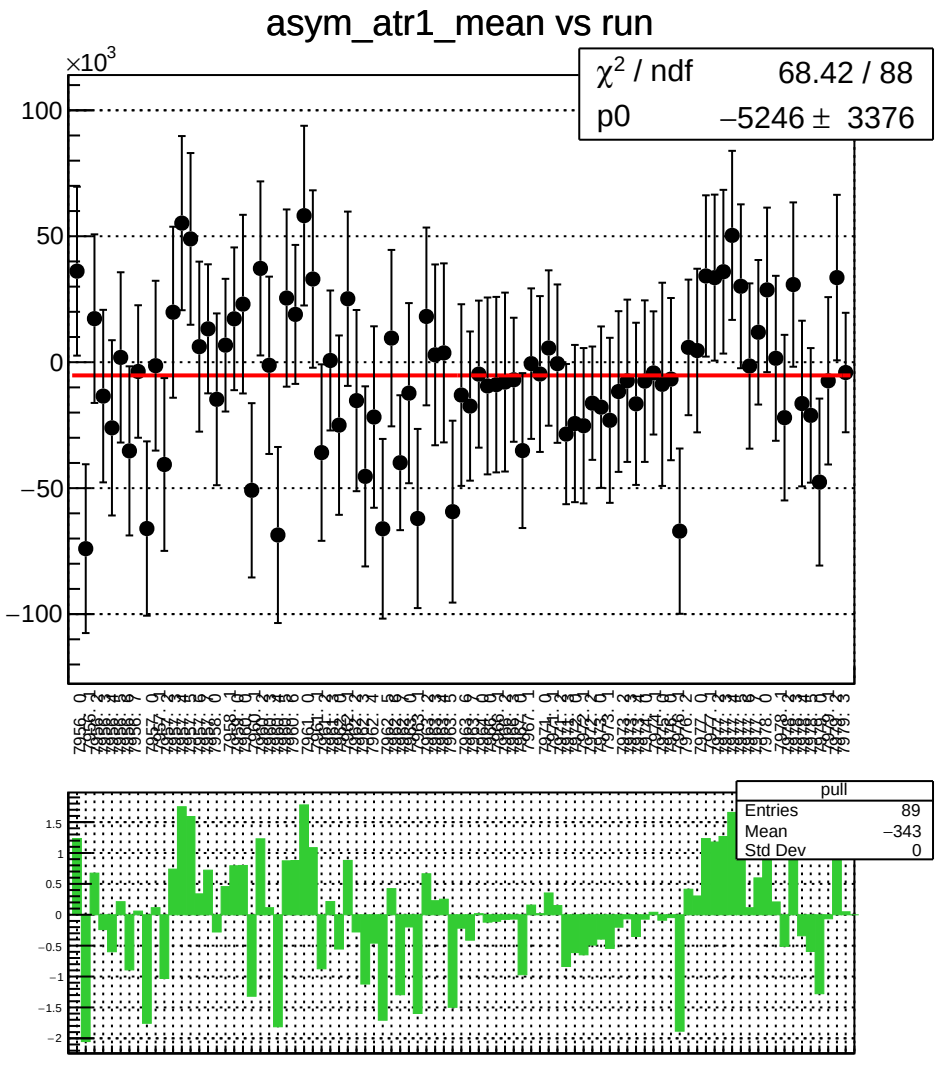

pull1D
Entries 89
Mean −0.001428
Std Dev 0.934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

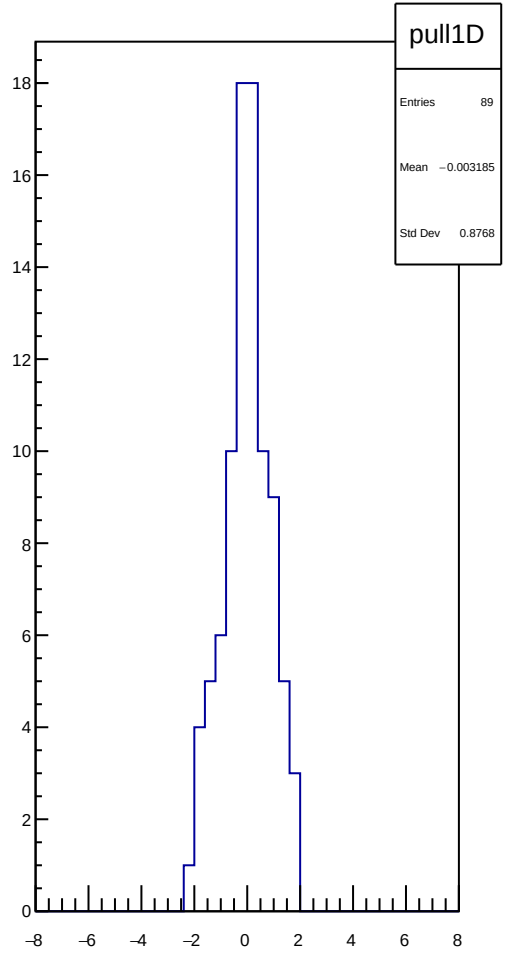

eigen_dit_asym_atr1_rms vs run
$\chi^2$ / ndf 384.9 / 88
p0 2773 ± 2.072
2950
2900
2850
2800
2750
2700

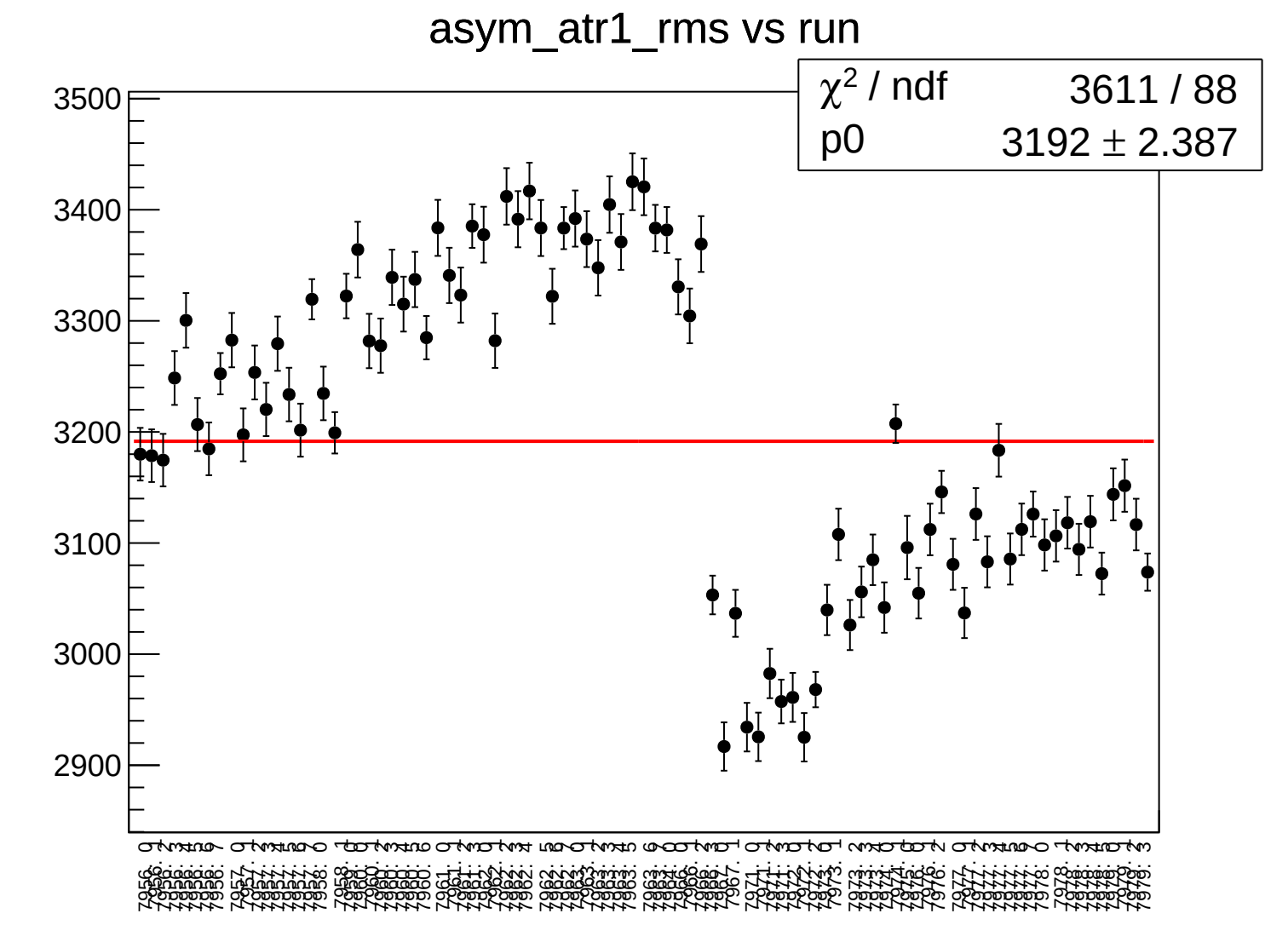

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 91.75 / 88
p0 2502 ± 1545
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 99.9
Std Dev 139.6
2
1
0
−1
−2

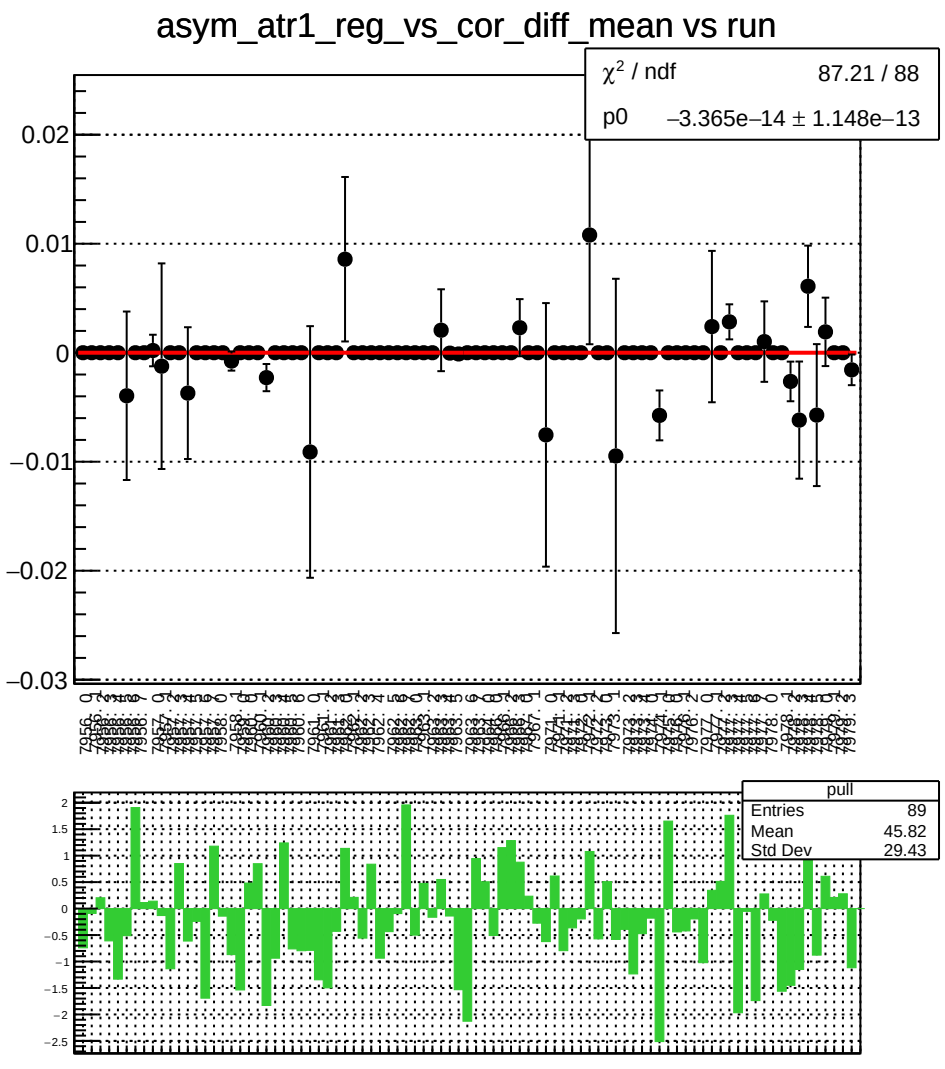

pull1D
Entries 89
Mean −0.005567
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

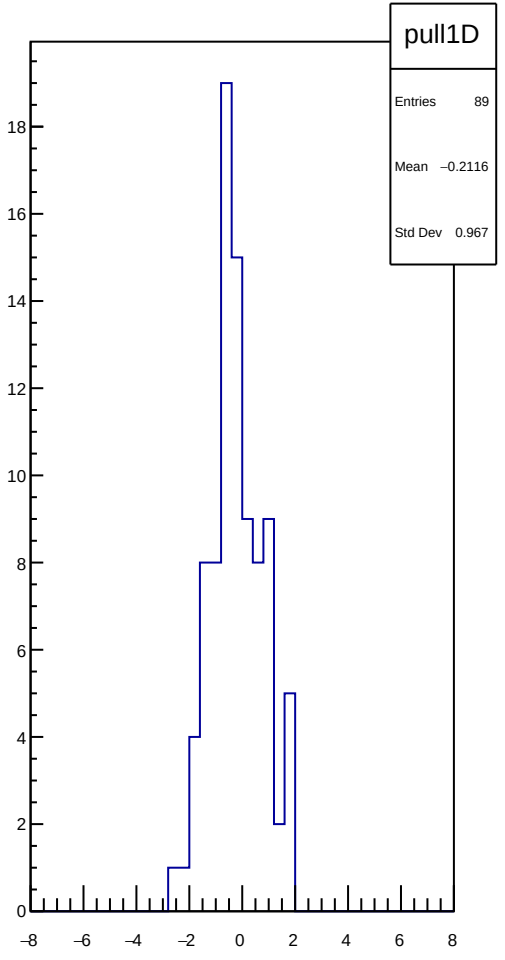

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 5.098e+04 / 88
p0 1441 ± 1.093
1900
1800
1700
1600
1500
1400
1300
1200
1100

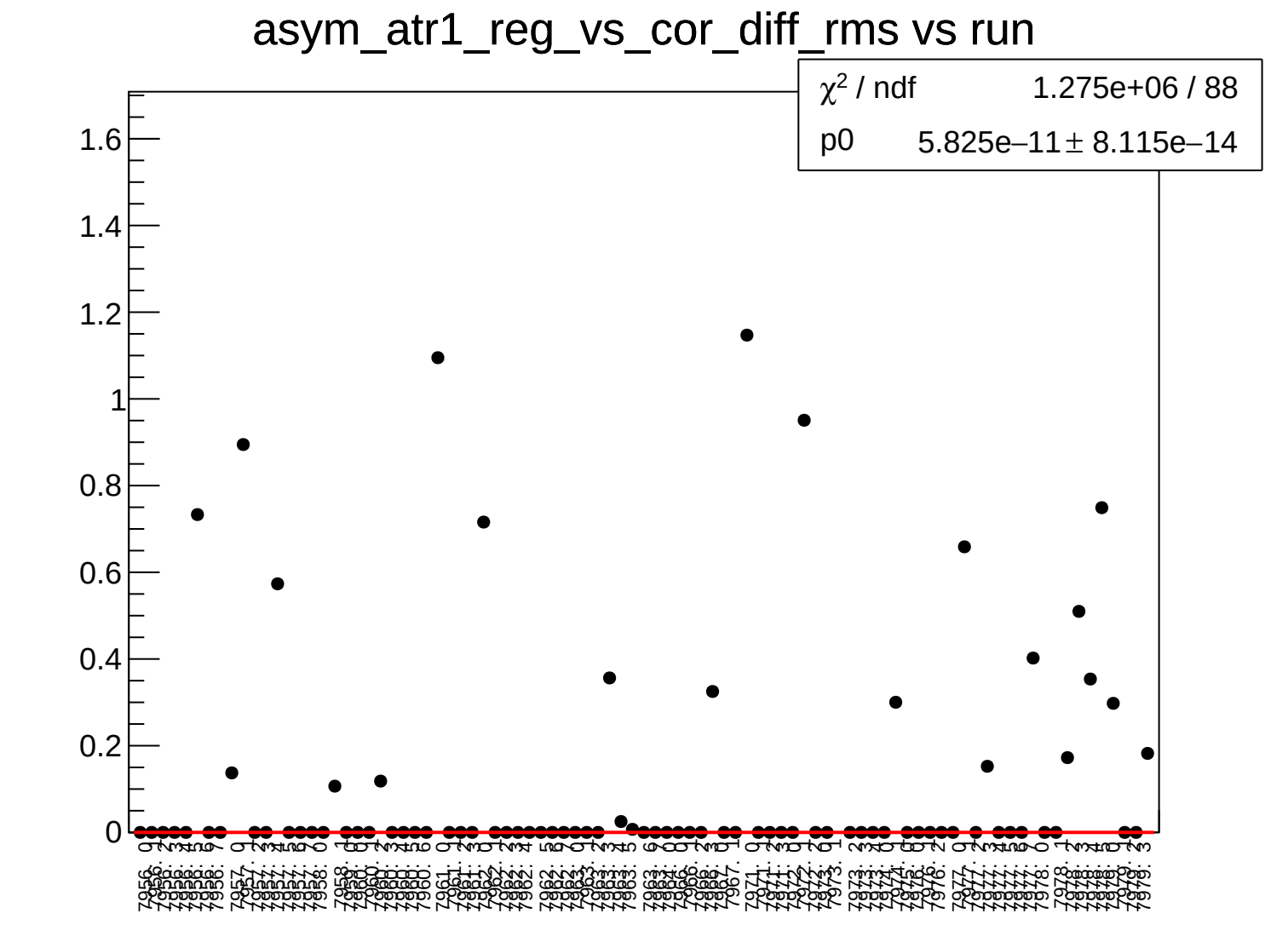

asym_atr1_mean vs run
×10^3
χ² / ndf 68.42 / 88
p0 −5246 ± 3376
100
50
0
−50
−100
pull
Entries 89
Mean −343
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

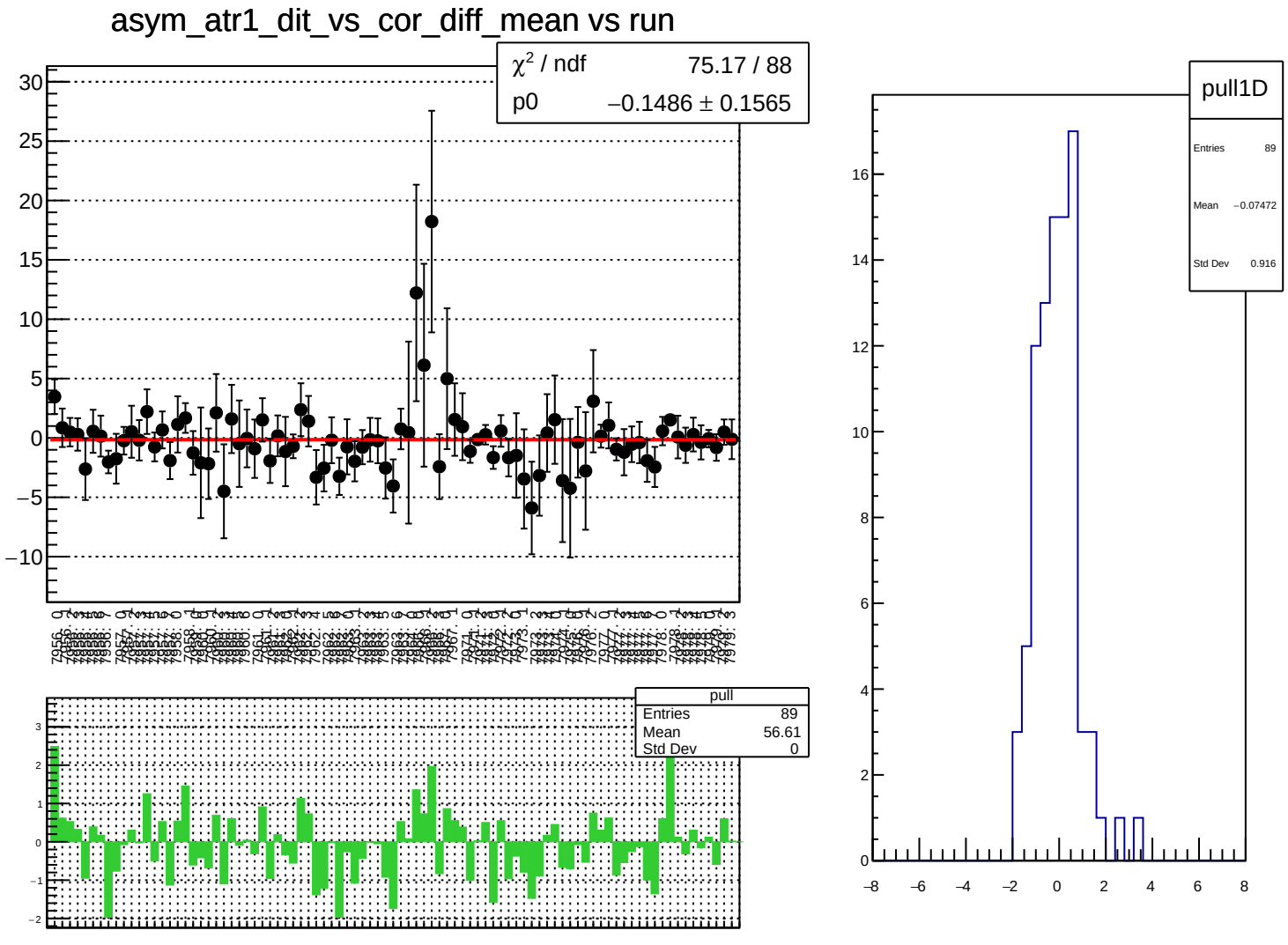

pull1D
Entries 89
Mean −0.003185
Std Dev 0.8768
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

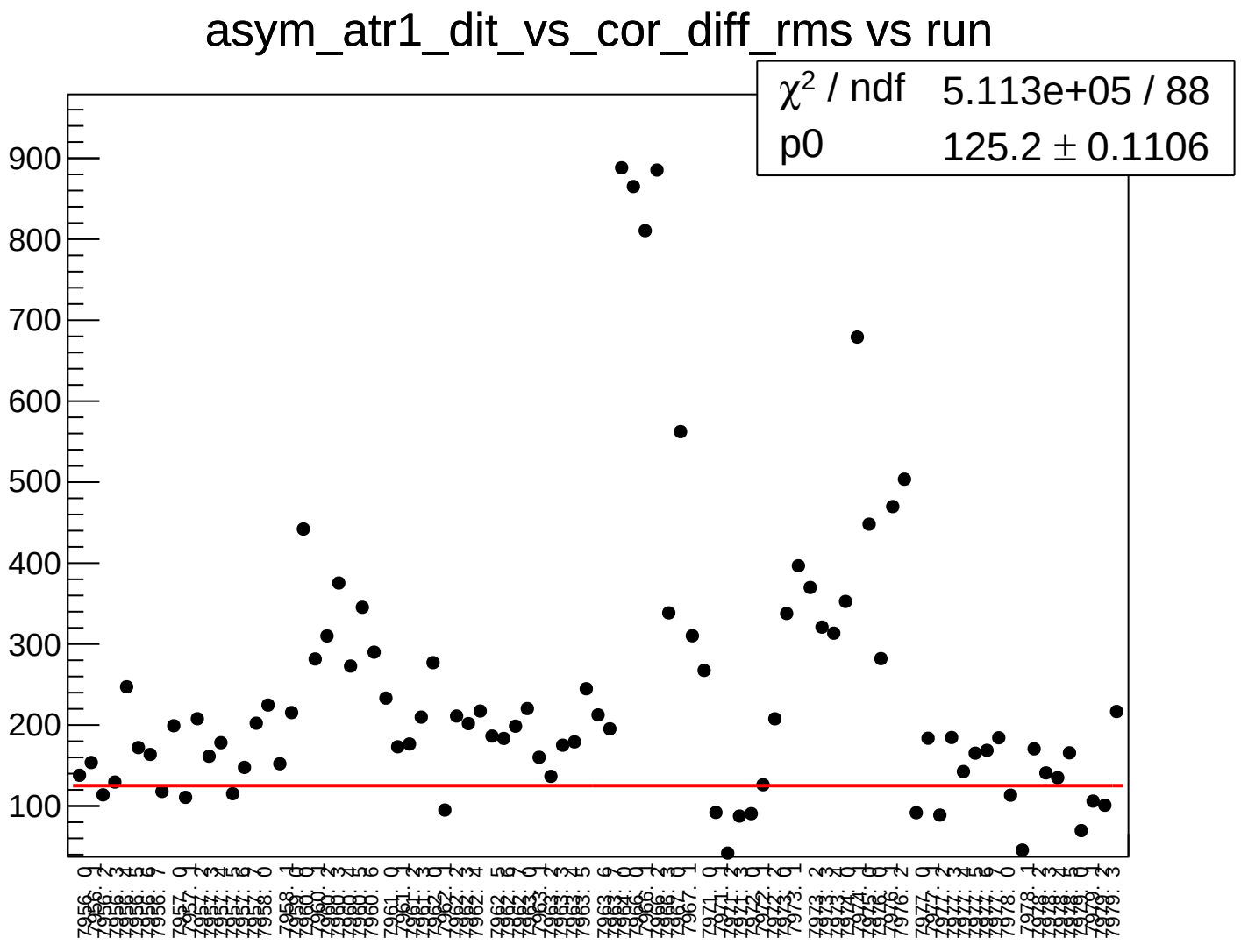

asym_atr1_rms vs run
χ² / ndf 3611 / 88
p0 3192 ± 2.387
3500
3400
3300
3200
3100
3000
2900

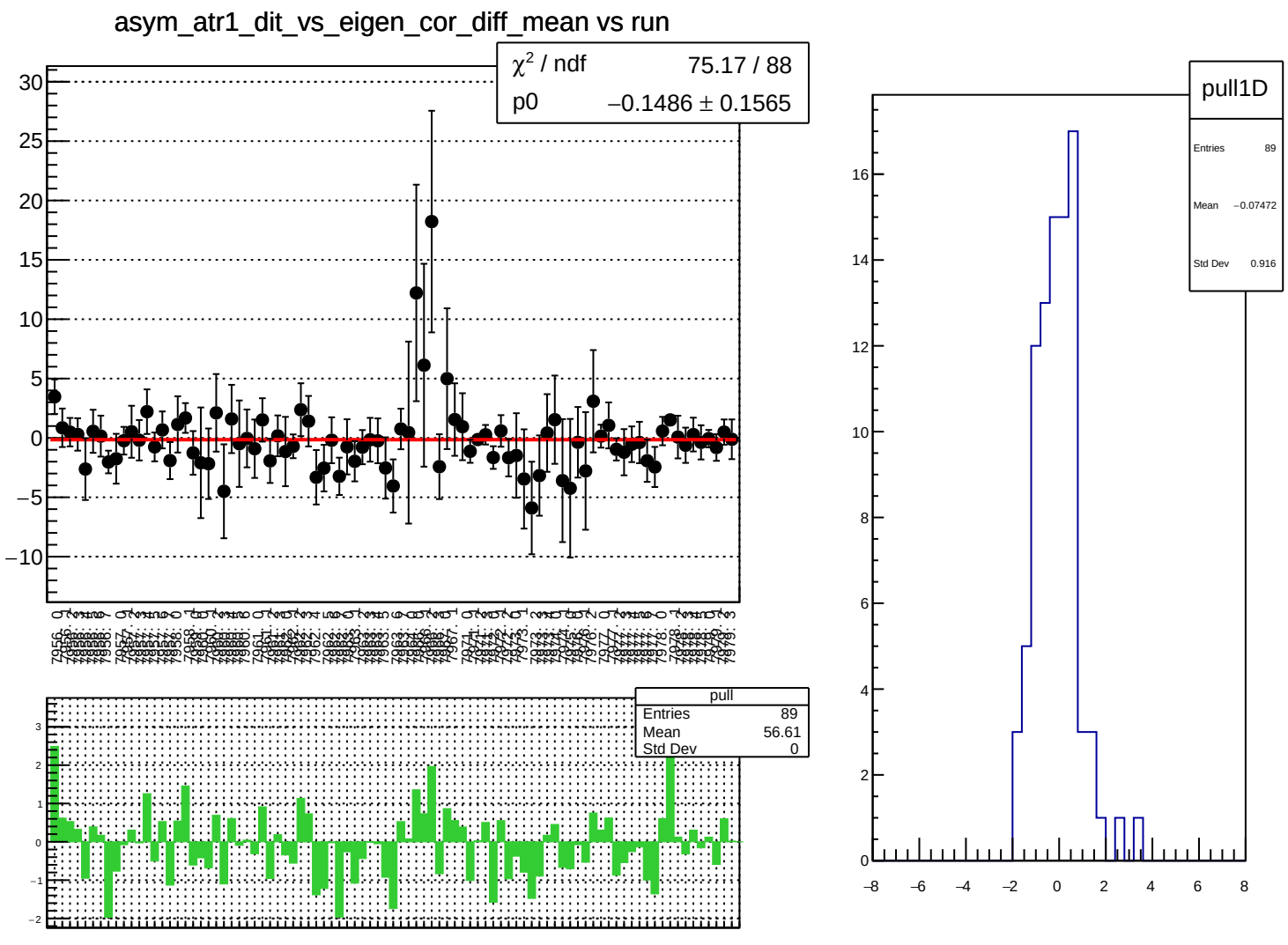

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 87.21 / 88
p0 −3.365e−14 ± 1.148e−13
pull
Entries 89
Mean 45.82
Std Dev 29.43

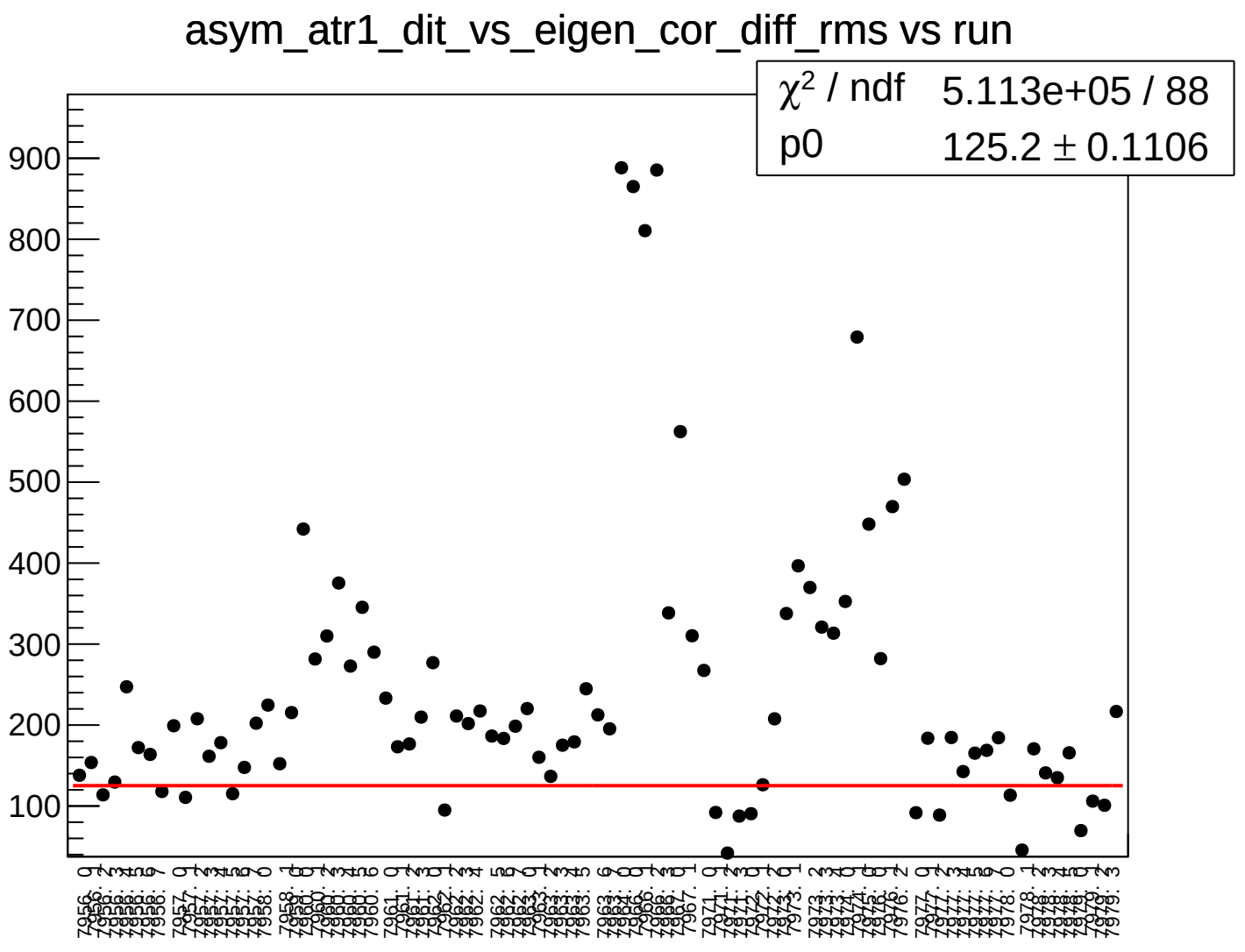

pull1D
Entries 89
Mean −0.2116
Std Dev 0.967

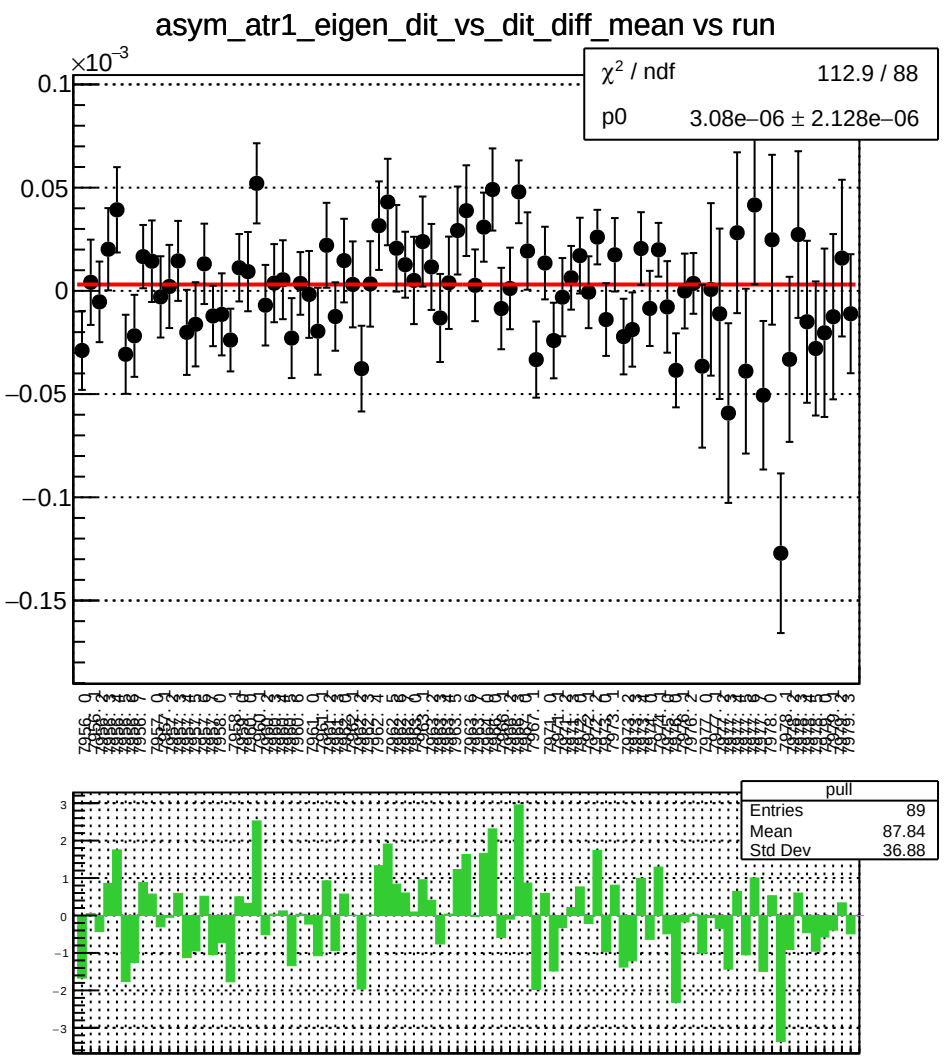

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.275e+06 / 88
p0 5.825e−11 ± 8.115e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

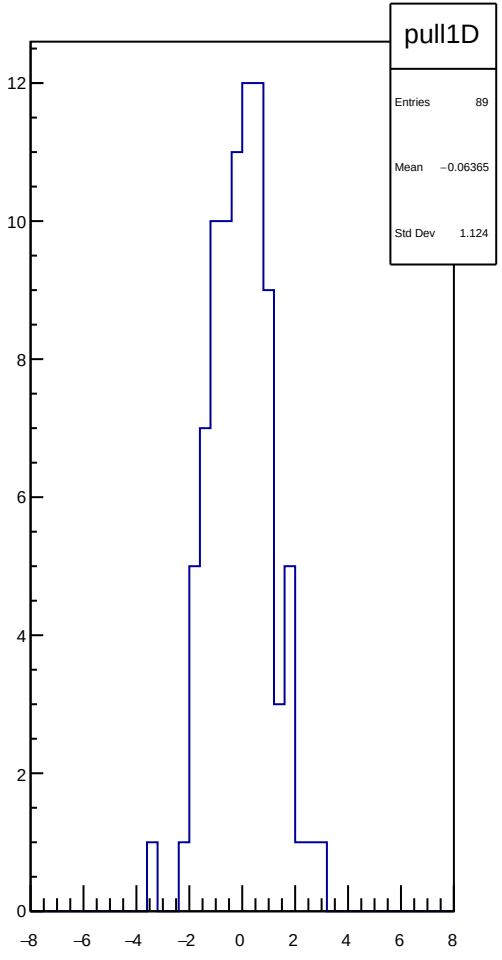

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 75.17 / 88
p0 −0.1486 ± 0.1565
pull
Entries 89
Mean 56.61
Std Dev 0
pull1D
Entries 89
Mean −0.07472
Std Dev 0.916

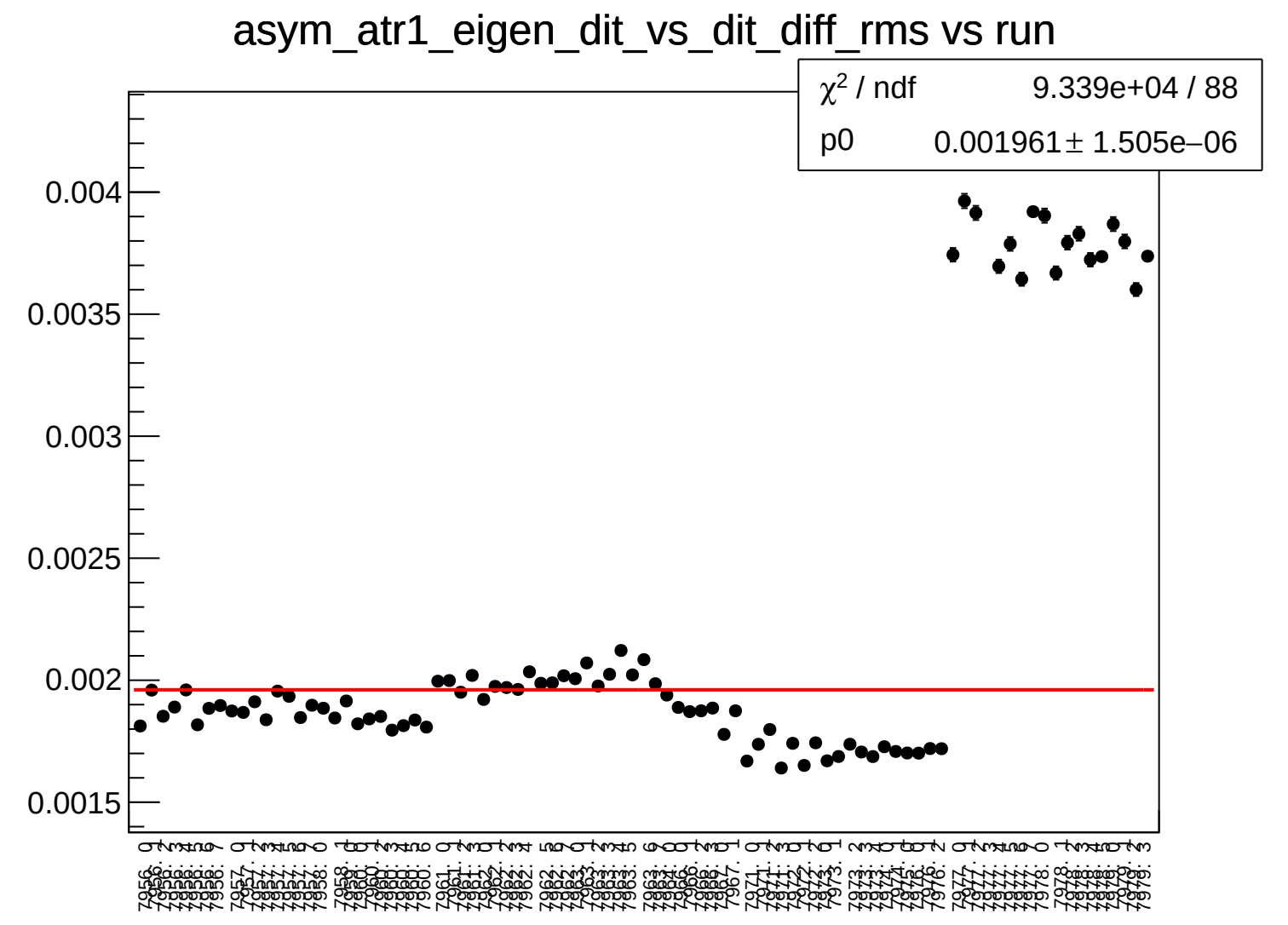

asym_atr1_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.113e+05 / 88
p0 125.2 ± 0.1106
900
800
700
600
500
400
300
200
100

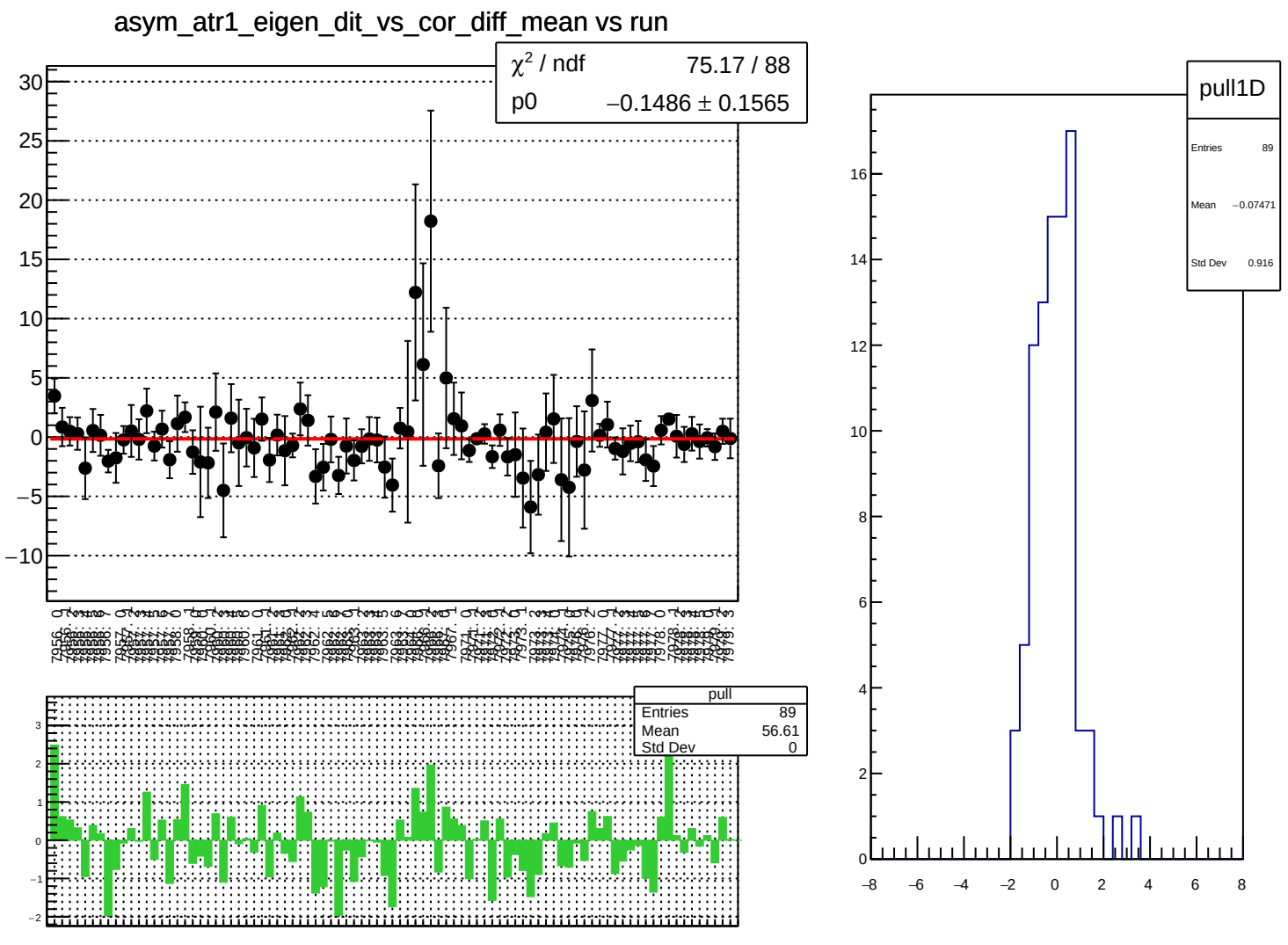

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.17 / 88
p0 −0.1486 ± 0.1565
pull
Entries 89
Mean 56.61
Std Dev 0
pull1D
Entries 89
Mean −0.07472
Std Dev 0.916

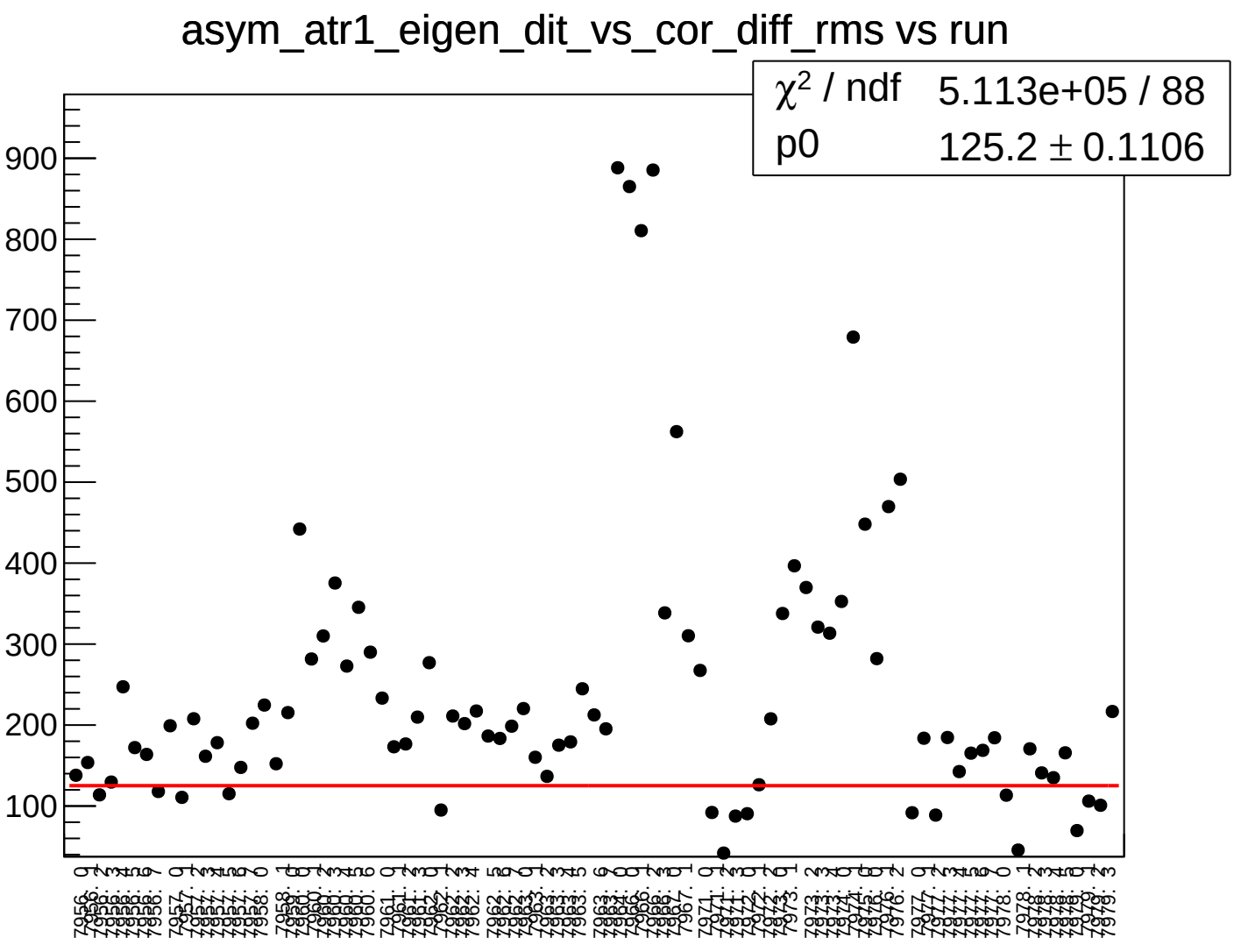

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 5.113e+05 / 88
p0 125.2 ± 0.1106
900
800
700
600
500
400
300
200
100

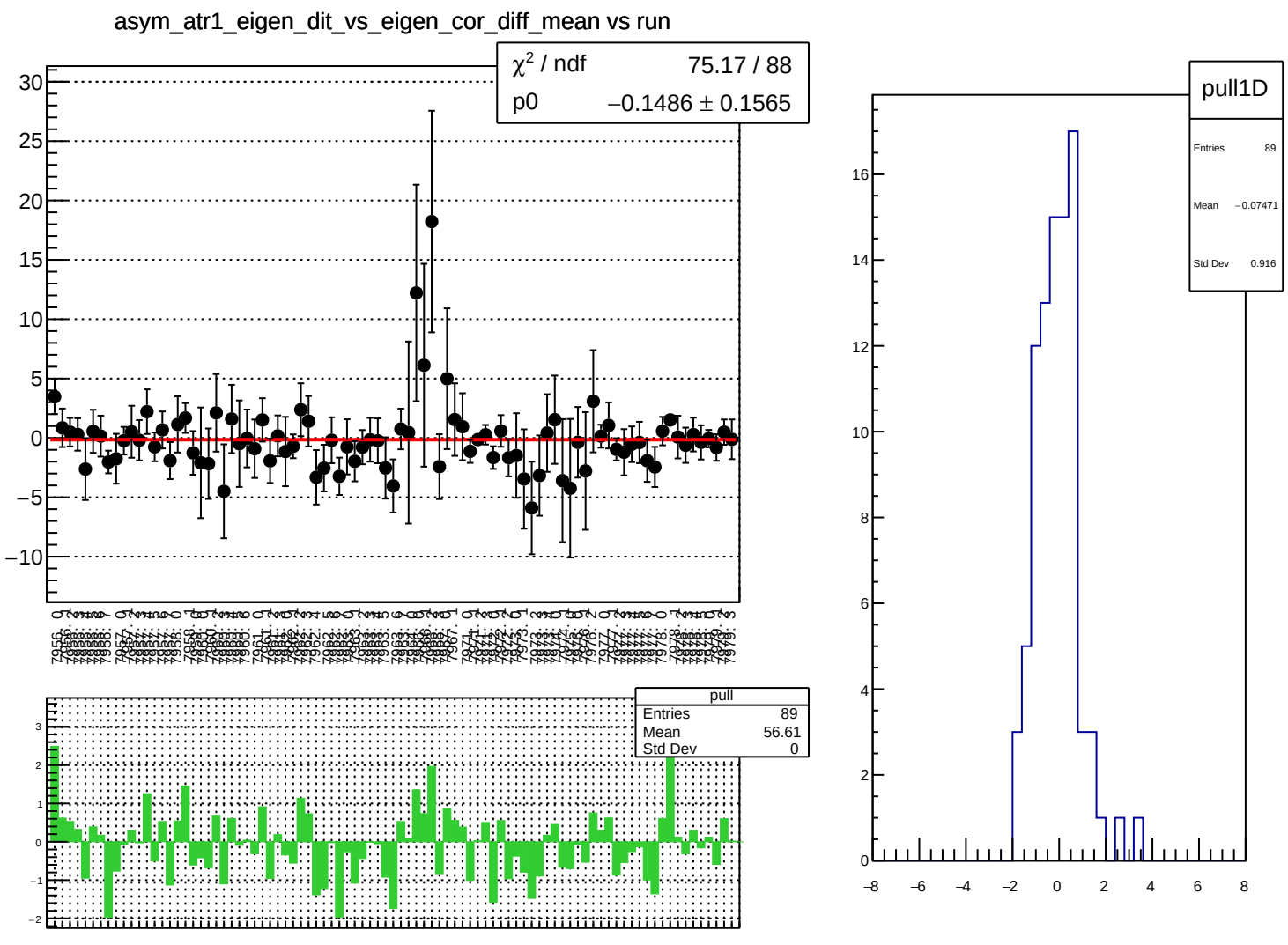

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.9 / 88
p0 3.08e−06 ± 2.128e−06
pull
Entries 89
Mean 87.84
Std Dev 36.88

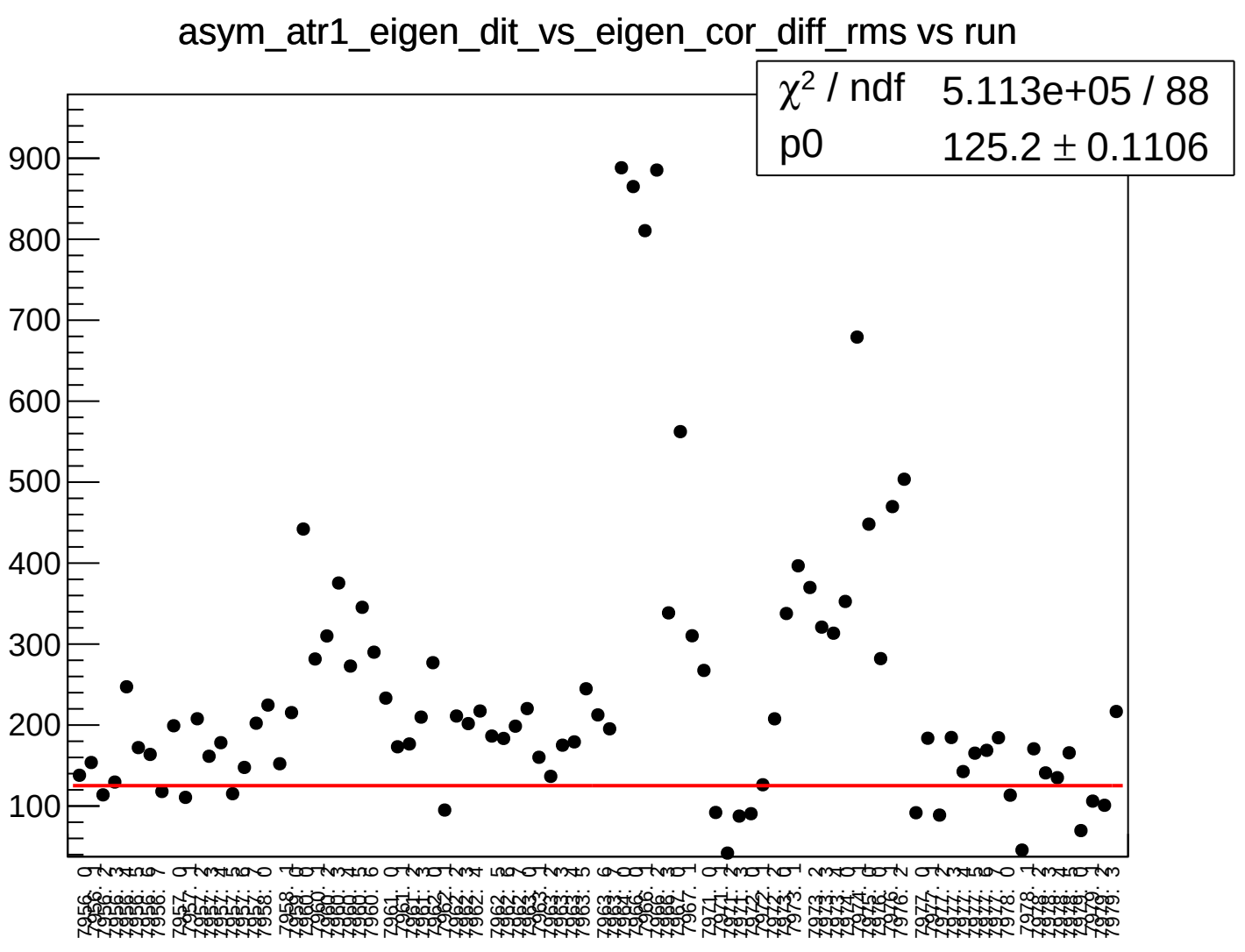

pull1D
Entries 89
Mean −0.06365
Std Dev 1.124

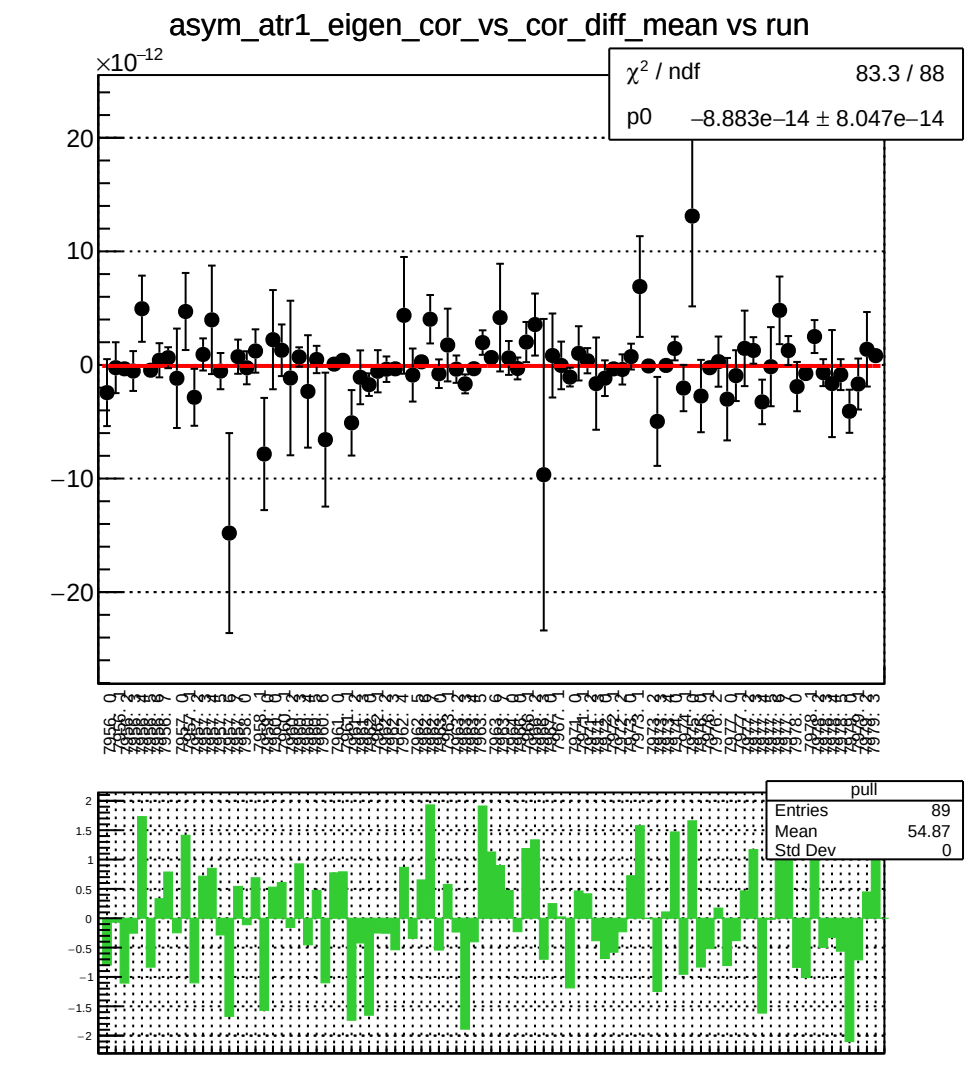

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.339e+04 / 88
p0 0.001961 ± 1.505e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

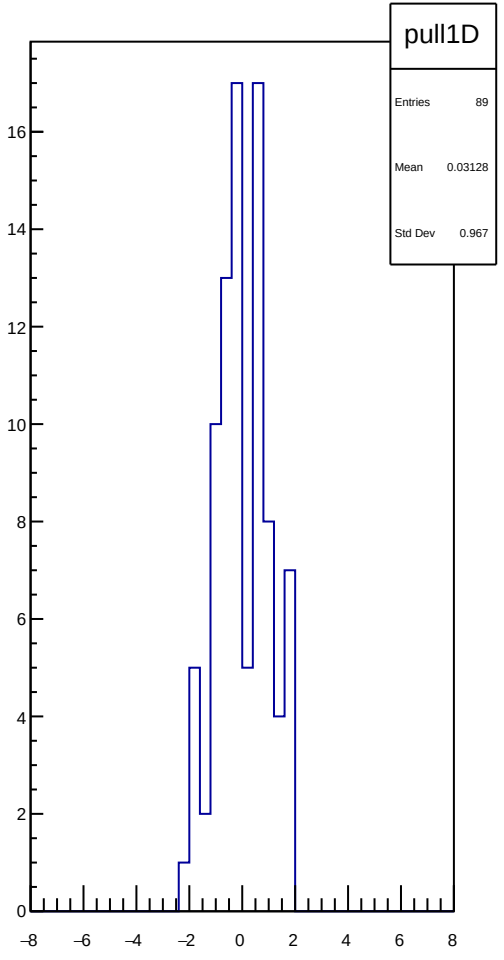

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.17 / 88
p0 −0.1486 ± 0.1565
pull
Entries 89
Mean 56.61
Std Dev 0
pull1D
Entries 89
Mean −0.07471
Std Dev 0.916

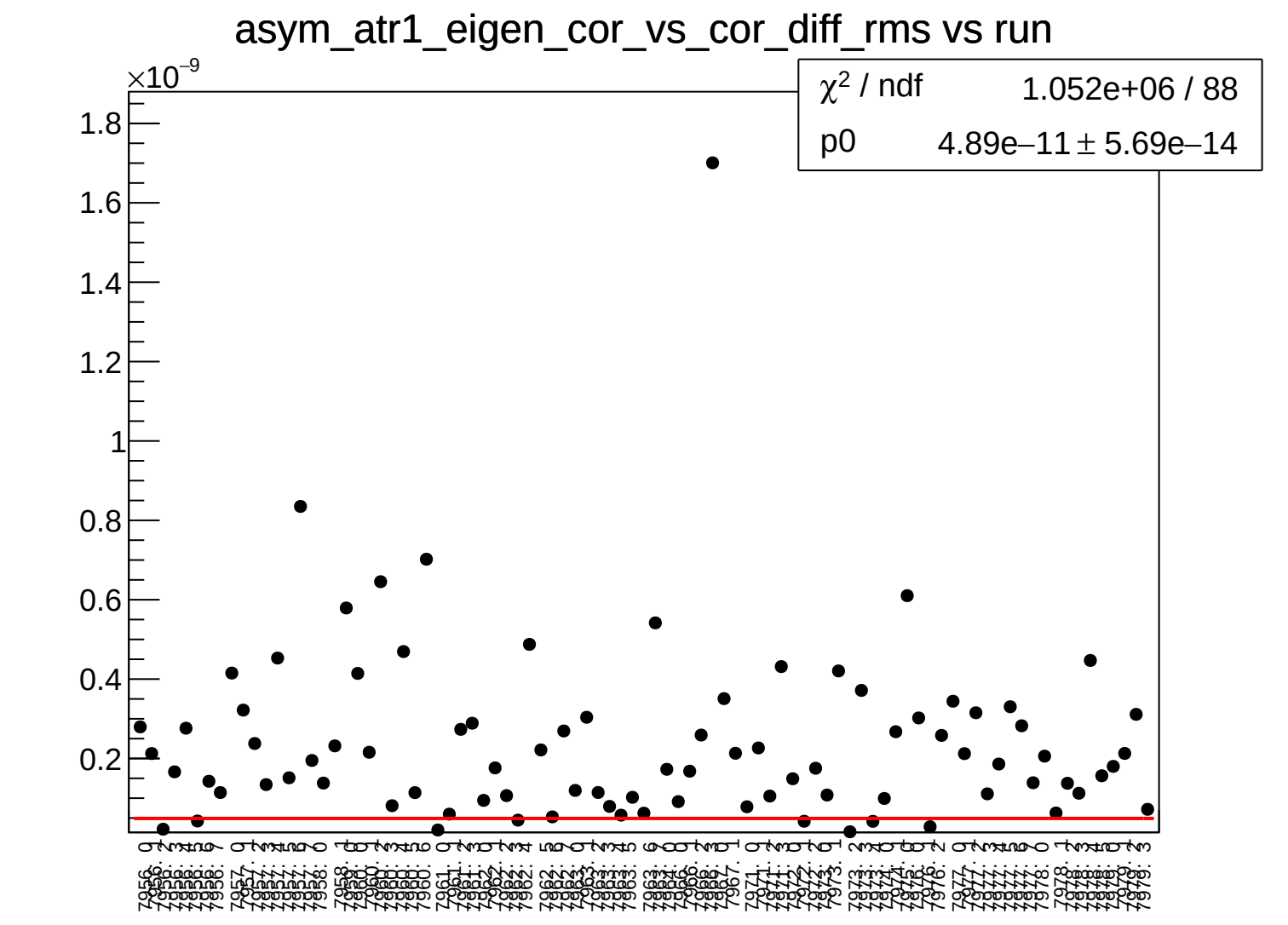

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.113e+05 / 88
p0 125.2 ± 0.1106
900
800
700
600
500
400
300
200
100

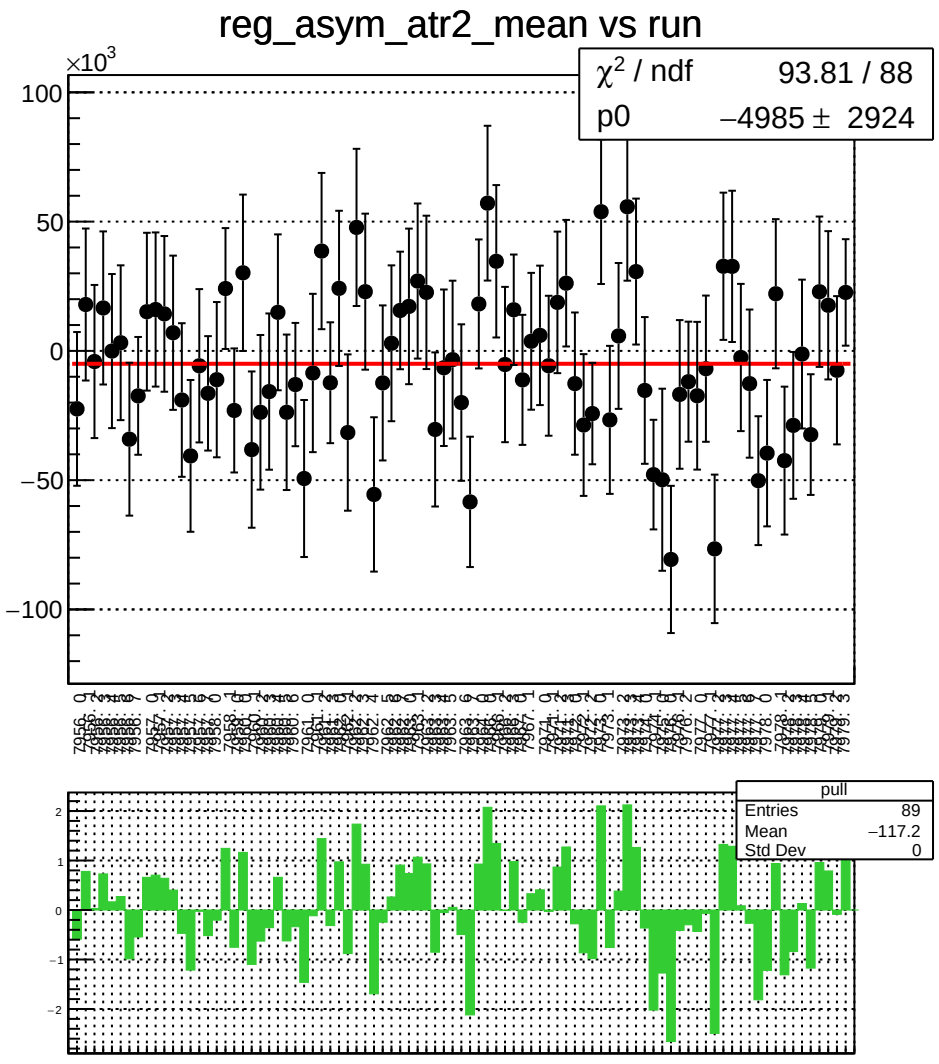

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.17 / 88
p0 −0.1486 ± 0.1565
pull
Entries 89
Mean 56.61
Std Dev 0
pull1D
Entries 89
Mean −0.07471
Std Dev 0.916

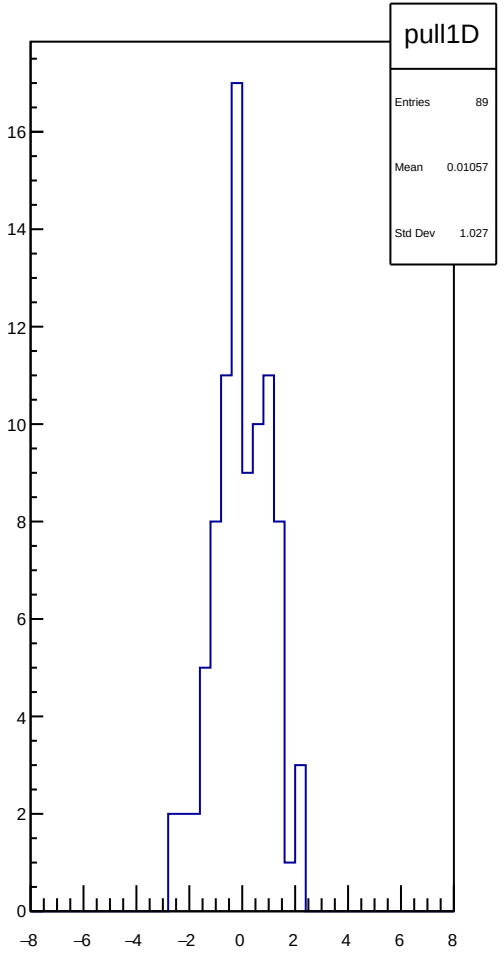

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.113e+05 / 88
p0 125.2 ± 0.1106
900
800
700
600
500
400
300
200
100

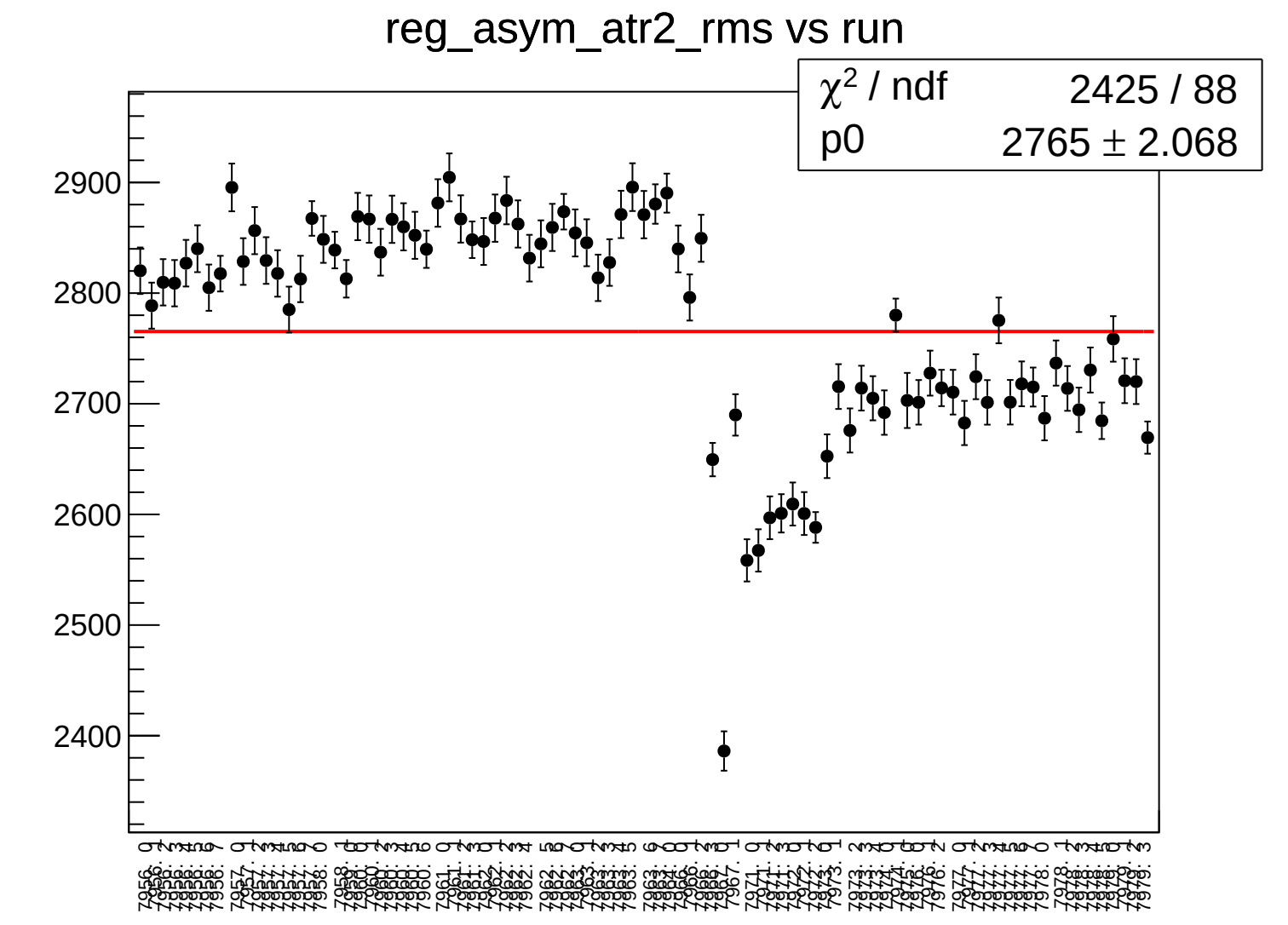

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.3 / 88
p0 −8.883e−14 ± 8.047e−14
20
10
0
−10
−20
pull
Entries 89
Mean 54.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

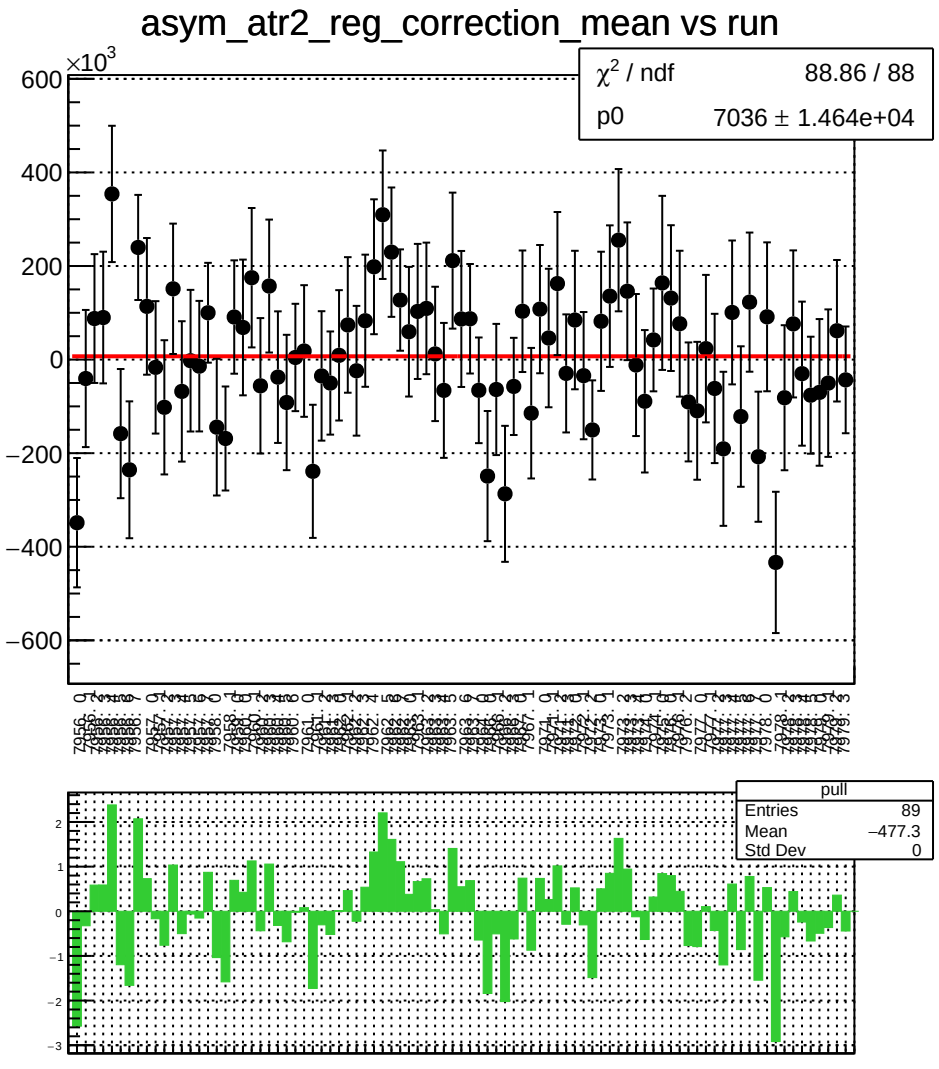

pull1D
Entries 89
Mean 0.03128
Std Dev 0.967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

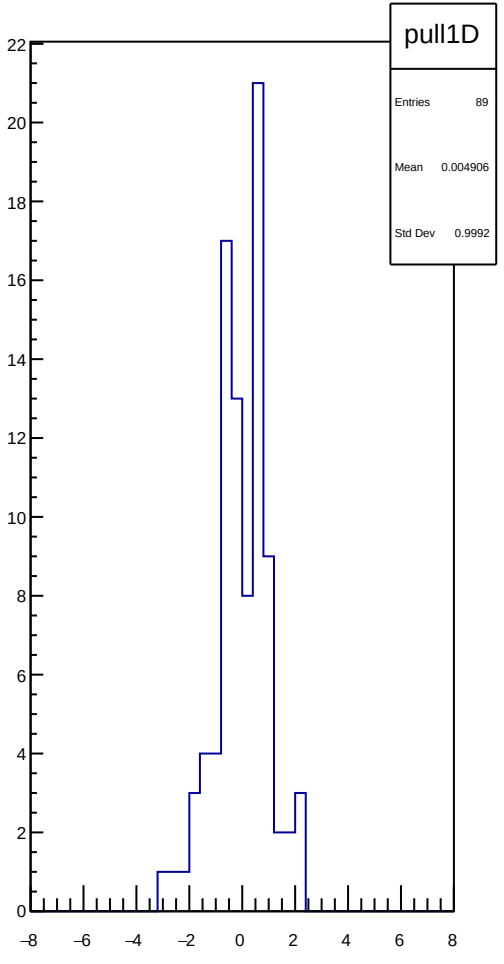

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.052e+06 / 88
p0 4.89e−11 ± 5.69e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

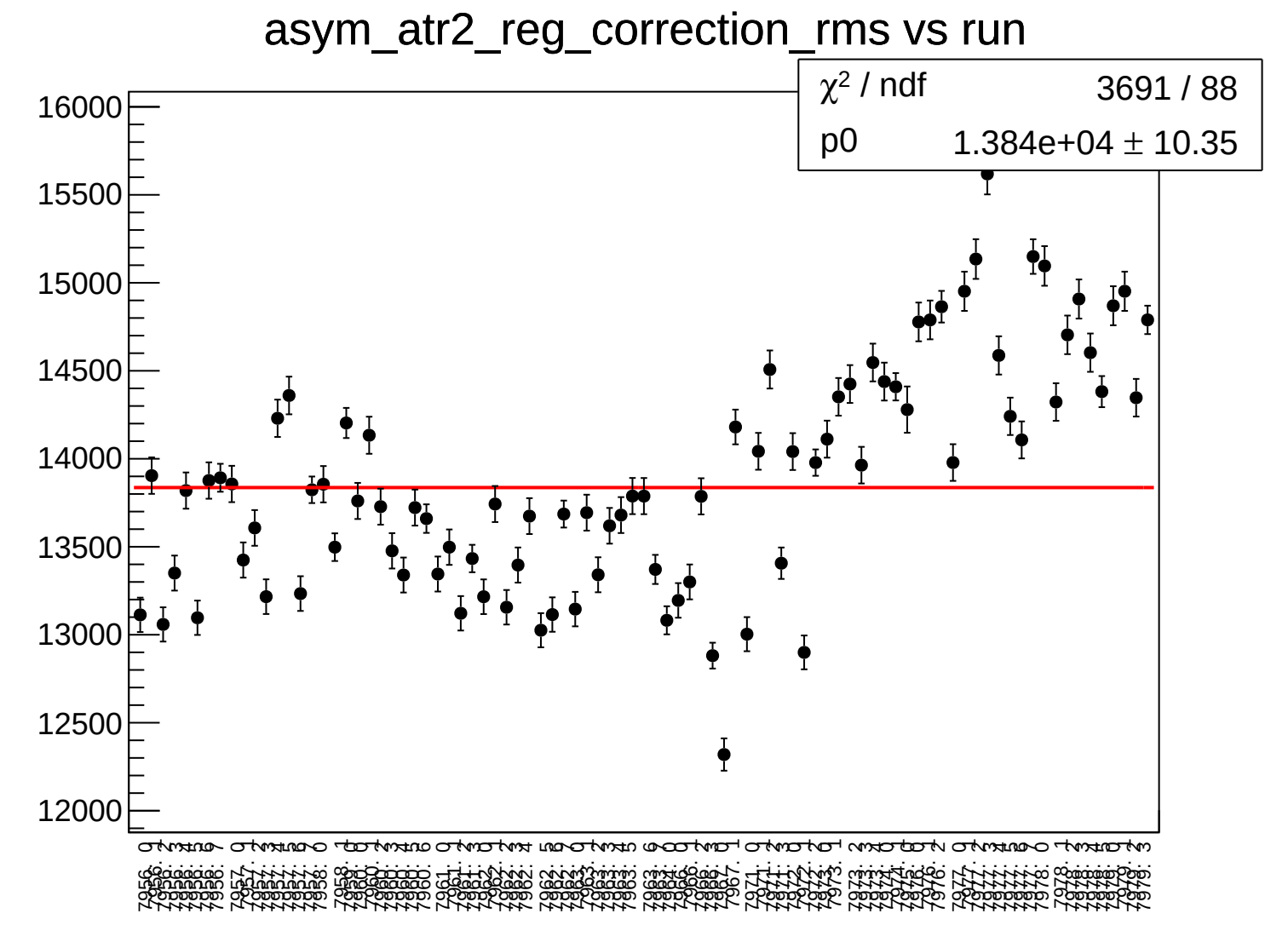

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 93.81 / 88
p0 −4985 ± 2924
pull
Entries 89
Mean −117.2
Std Dev 0

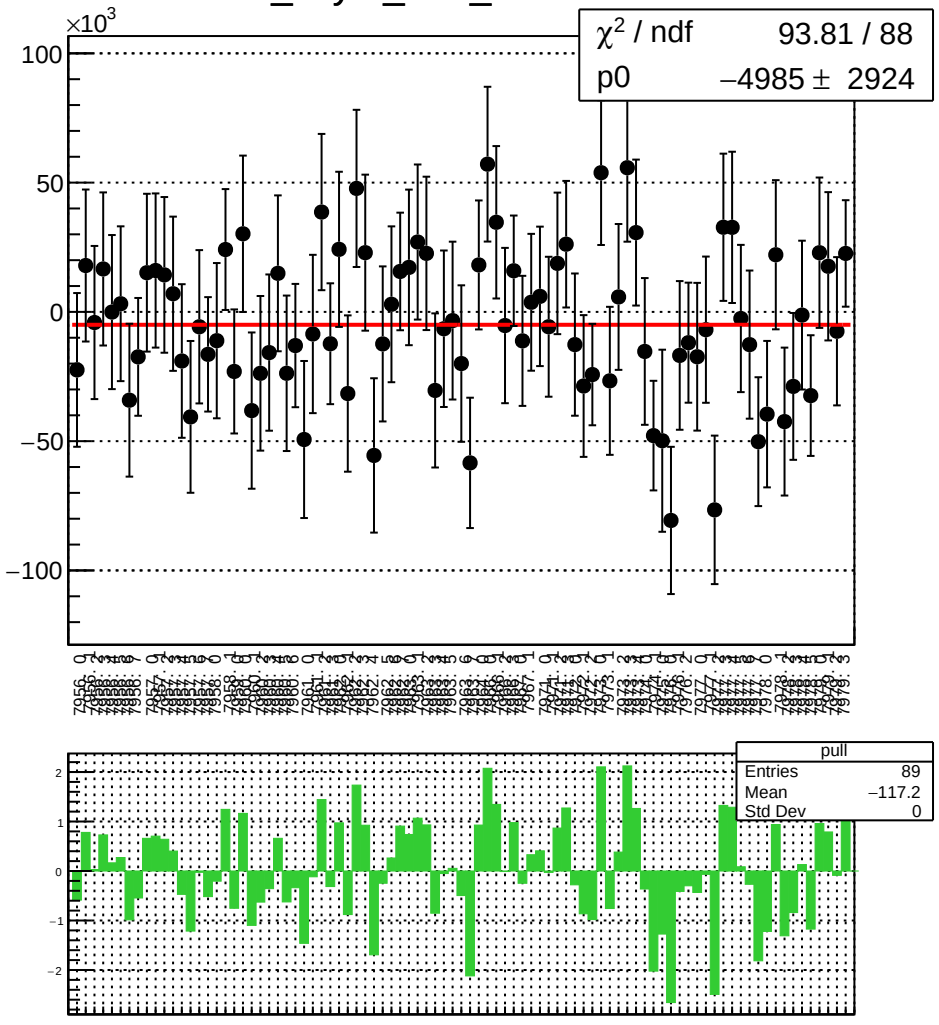

pull1D
Entries 89
Mean 0.01057
Std Dev 1.027

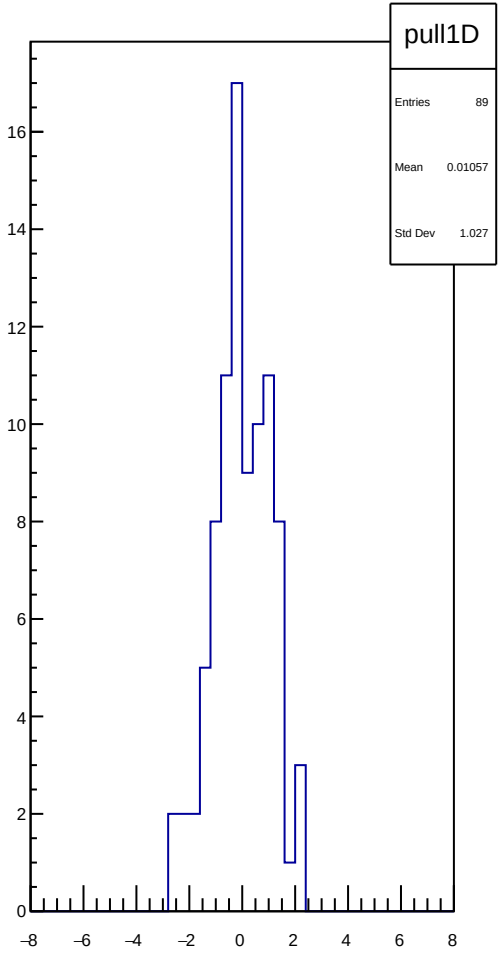

reg_asym_atr2_rms vs run
$\chi^2$ / ndf 2425 / 88
p0 2765 ± 2.068
2900
2800
2700
2600
2500
2400

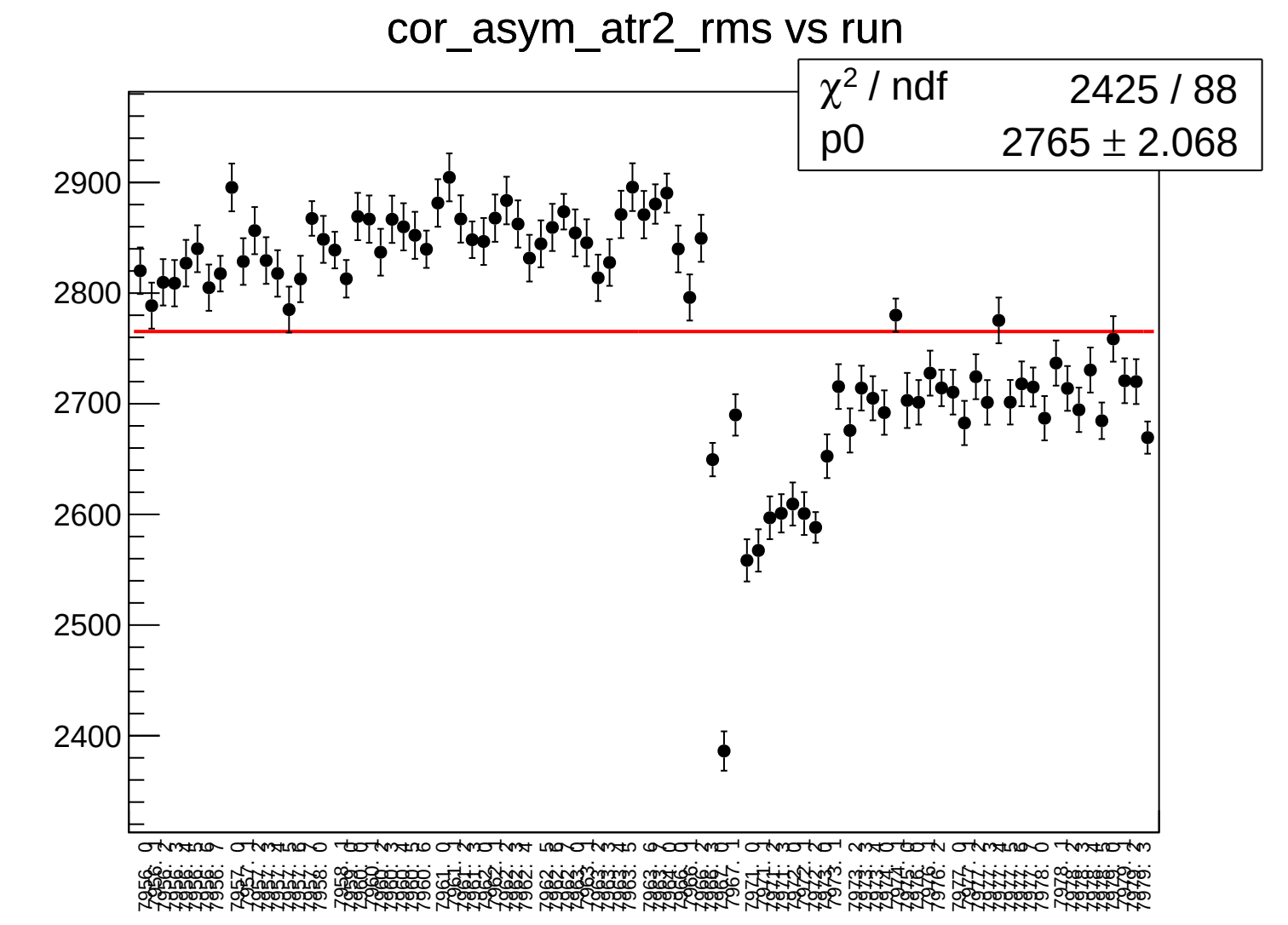

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 88.86 / 88
p0 7036 ± 1.464e+04
pull
Entries 89
Mean −477.3
Std Dev 0

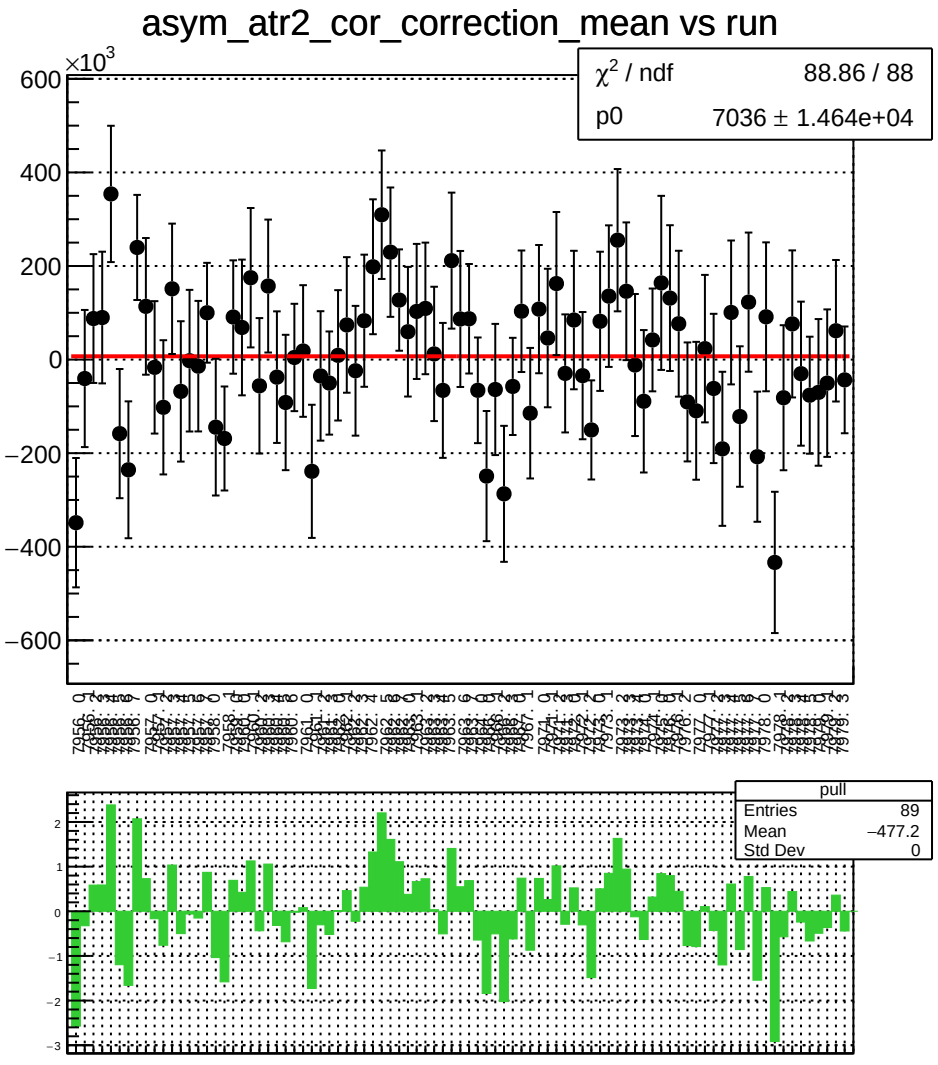

pull1D
Entries 89
Mean 0.004906
Std Dev 0.9992

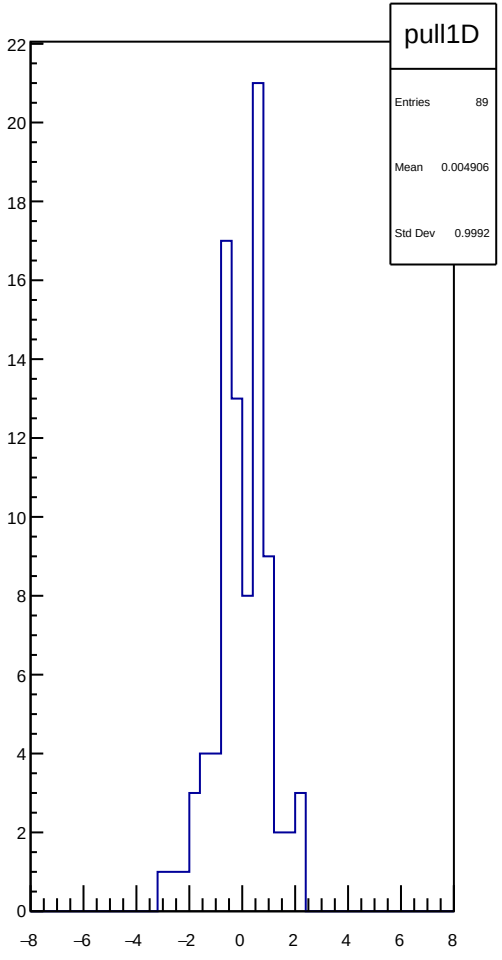

asym_atr2_reg_correction_rms vs run
χ² / ndf 3691 / 88
p0 1.384e+04 ± 10.35
16000
15500
15000
14500
14000
13500
13000
12500
12000

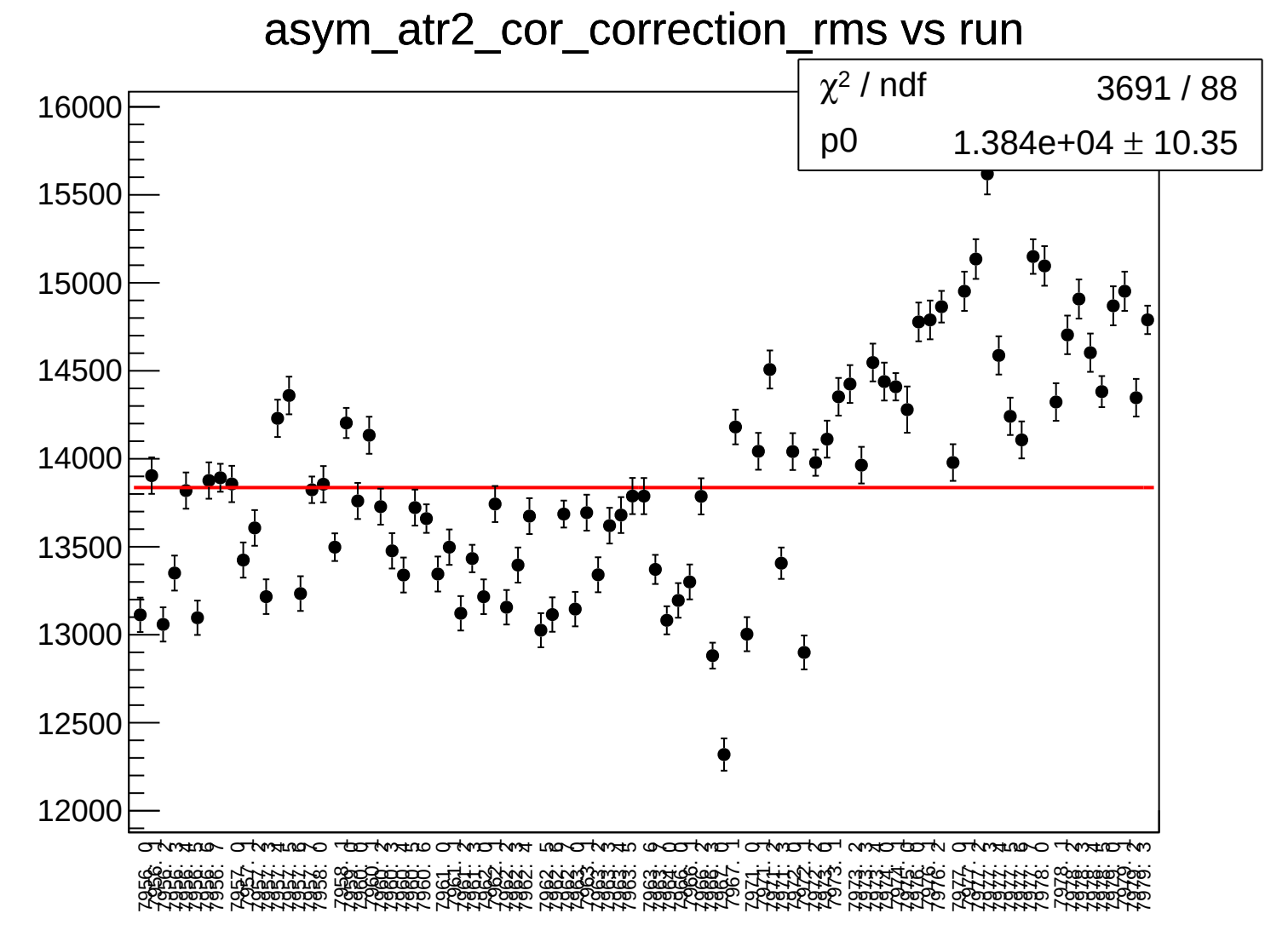

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 93.81 / 88
p0 −4985 ± 2924
100
50
0
−50
−100
pull
Entries 89
Mean −117.2
Std Dev 0
2
1
0
−1
−2

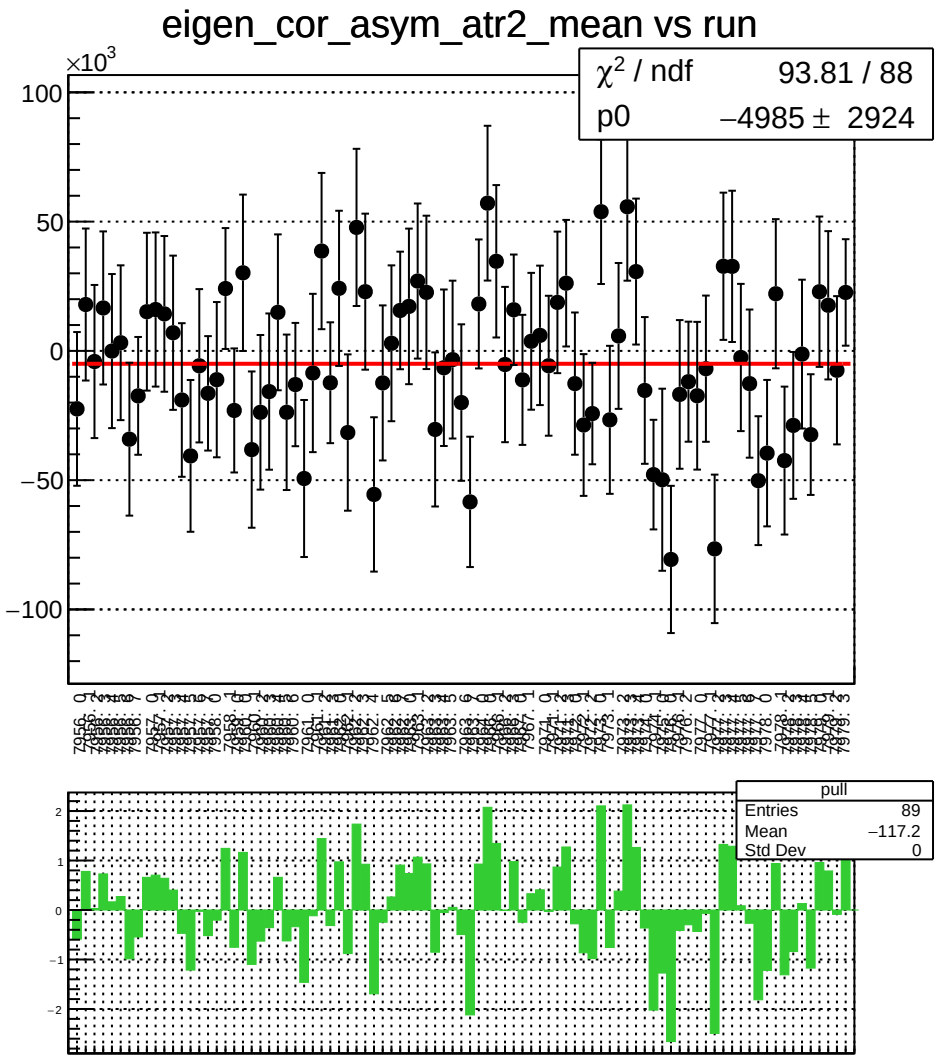

pull1D
Entries 89
Mean 0.01057
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

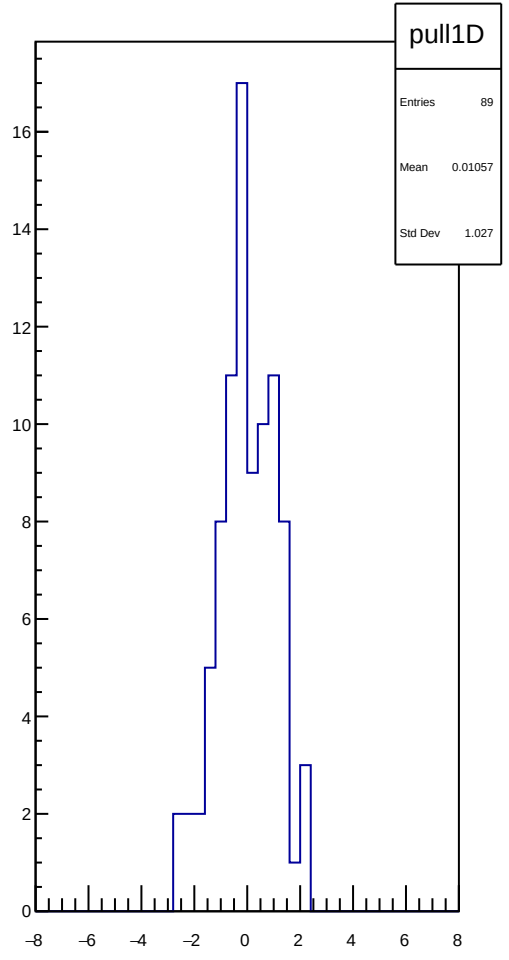

cor_asym_atr2_rms vs run
χ² / ndf 2425 / 88
p0 2765 ± 2.068
2900
2800
2700
2600
2500
2400

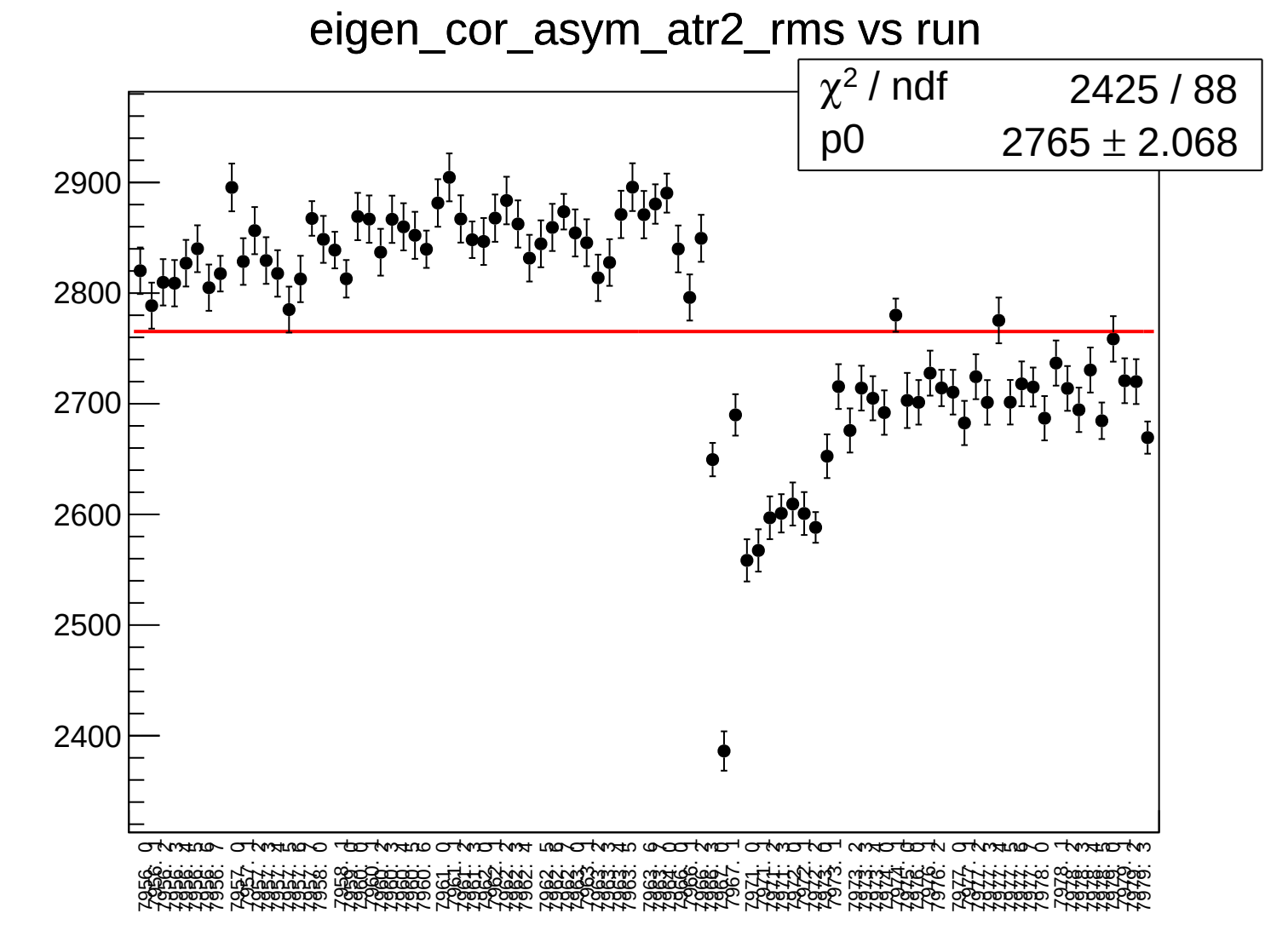

asym_atr2_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 88.86 / 88
p0 7036 ± 1.464e+04
pull
Entries 89
Mean −477.2
Std Dev 0
2
1
0
−1
−2
−3

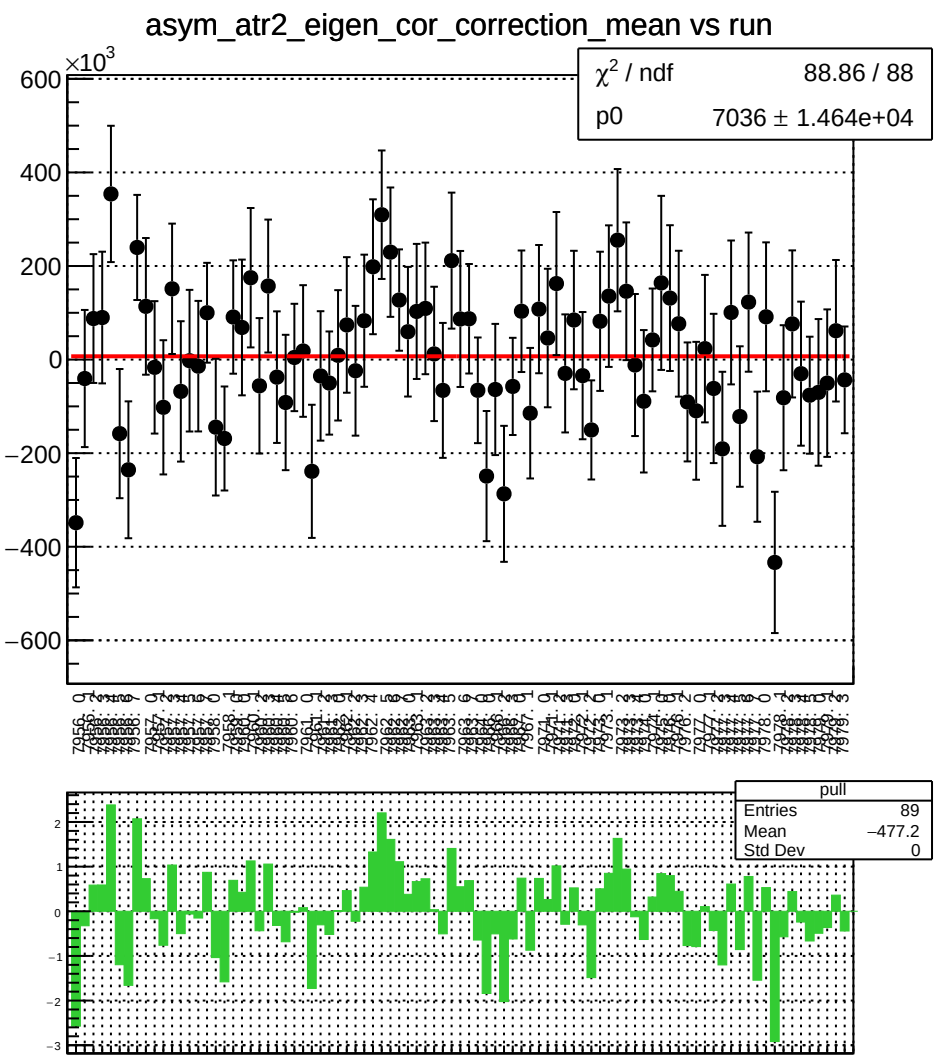

pull1D
Entries 89
Mean 0.004906
Std Dev 0.9992
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

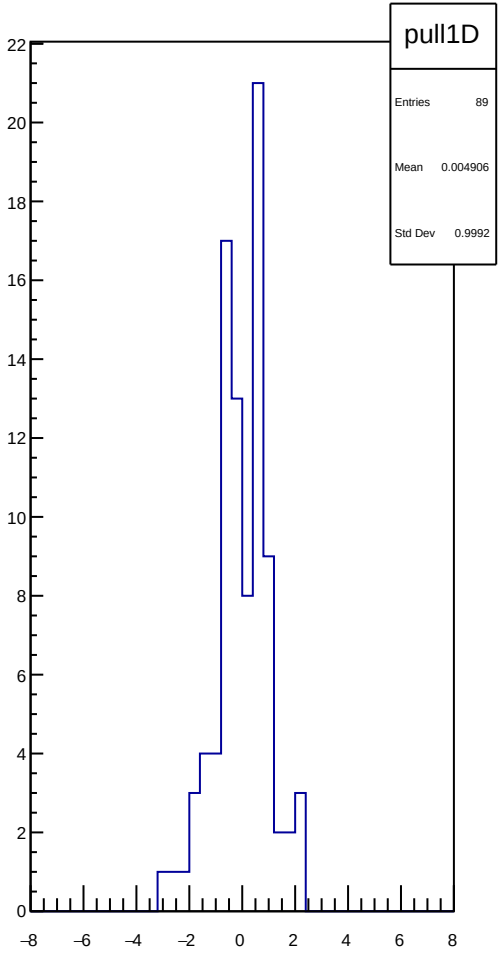

asym_atr2_cor_correction_rms vs run
χ² / ndf 3691 / 88
p0 1.384e+04 ± 10.35
16000
15500
15000
14500
14000
13500
13000
12500
12000

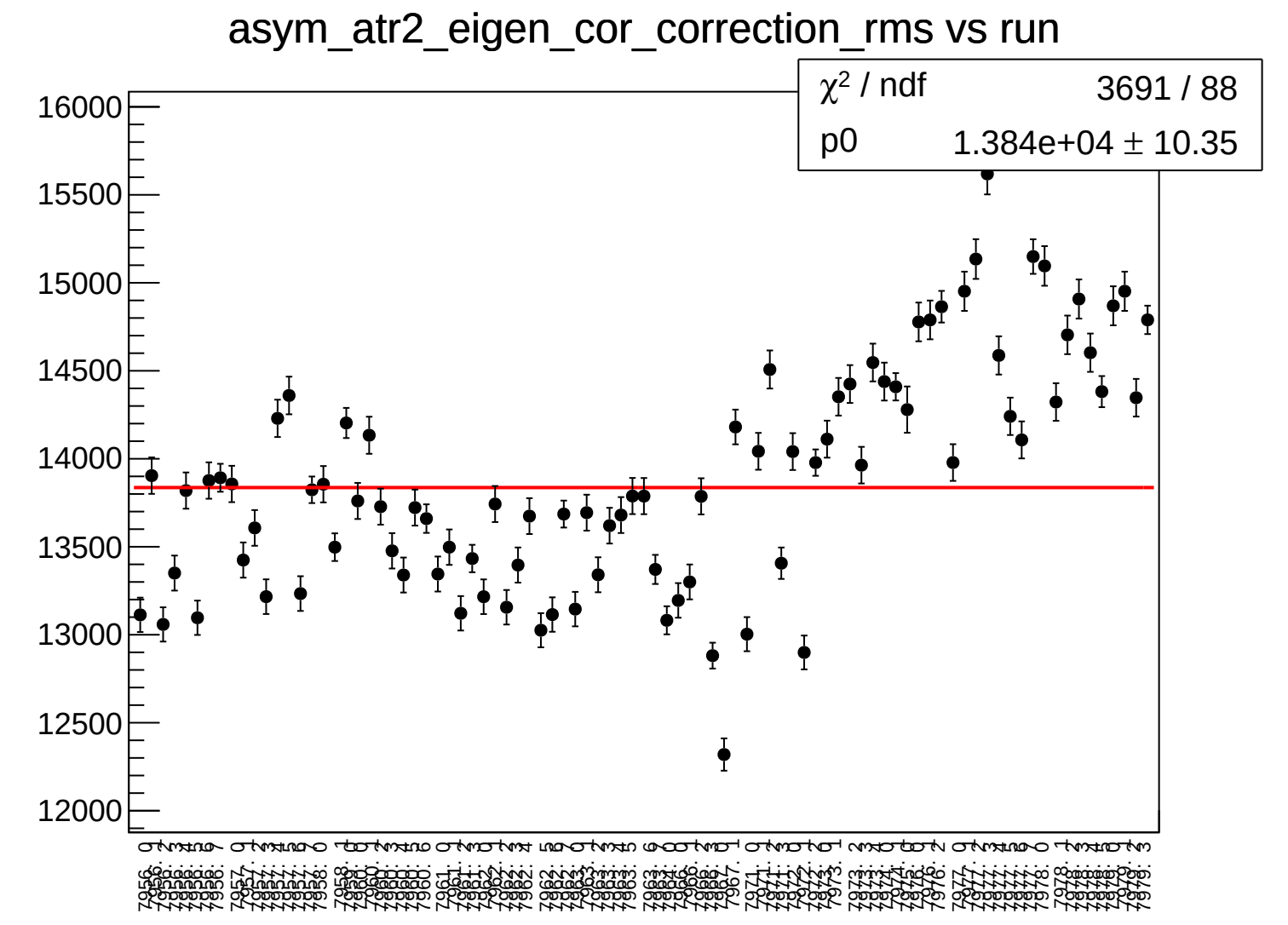

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 93.81 / 88
p0 −4985 ± 2924
100
50
0
−50
−100
pull
Entries 89
Mean −117.2
Std Dev 0
2
1
0
−1
−2

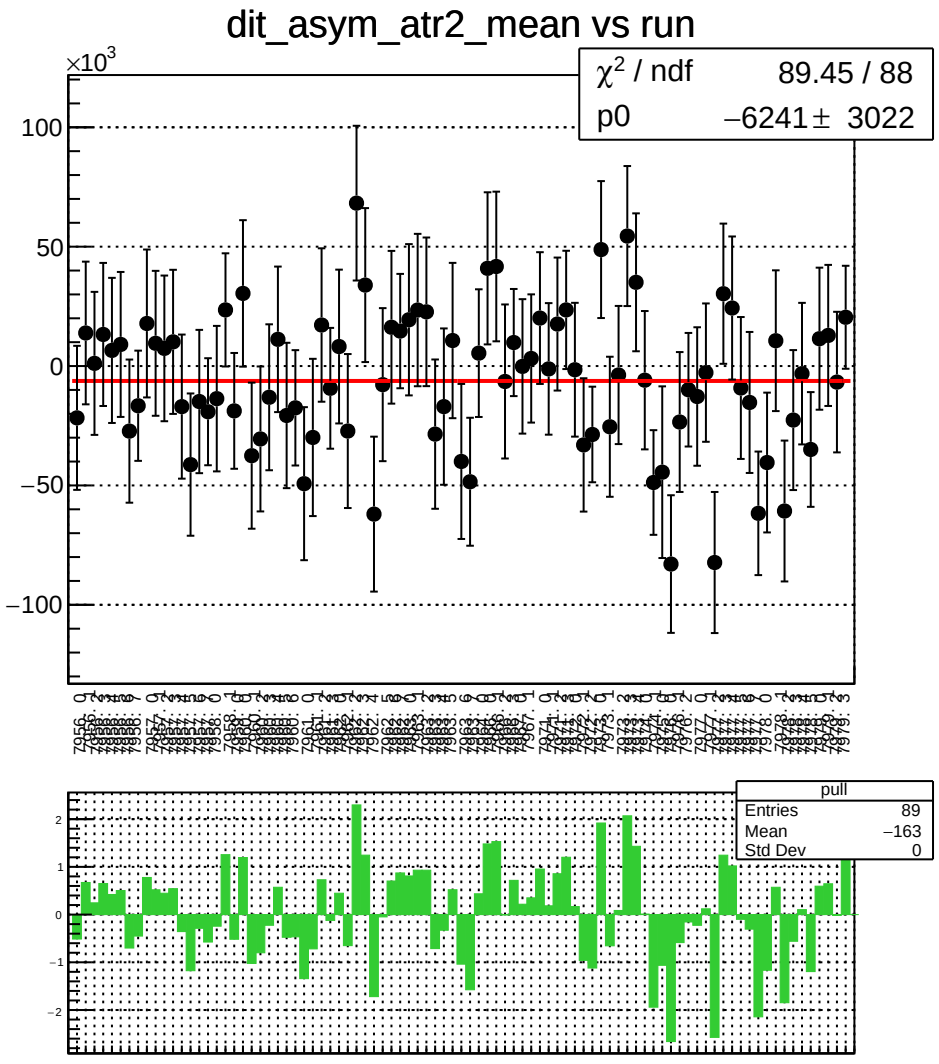

pull1D
Entries 89
Mean 0.01057
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

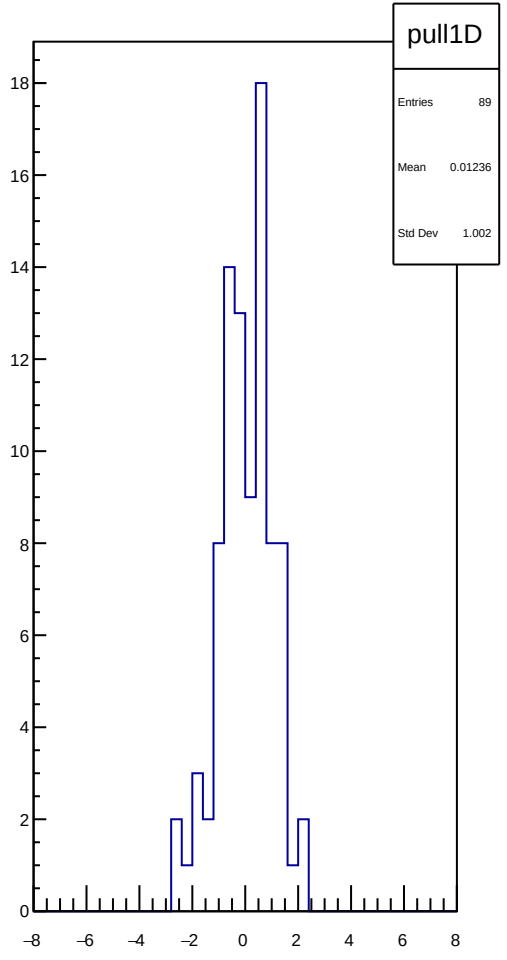

eigen_cor_asym_atr2_rms vs run
χ² / ndf 2425 / 88
p0 2765 ± 2.068
2900
2800
2700
2600
2500
2400

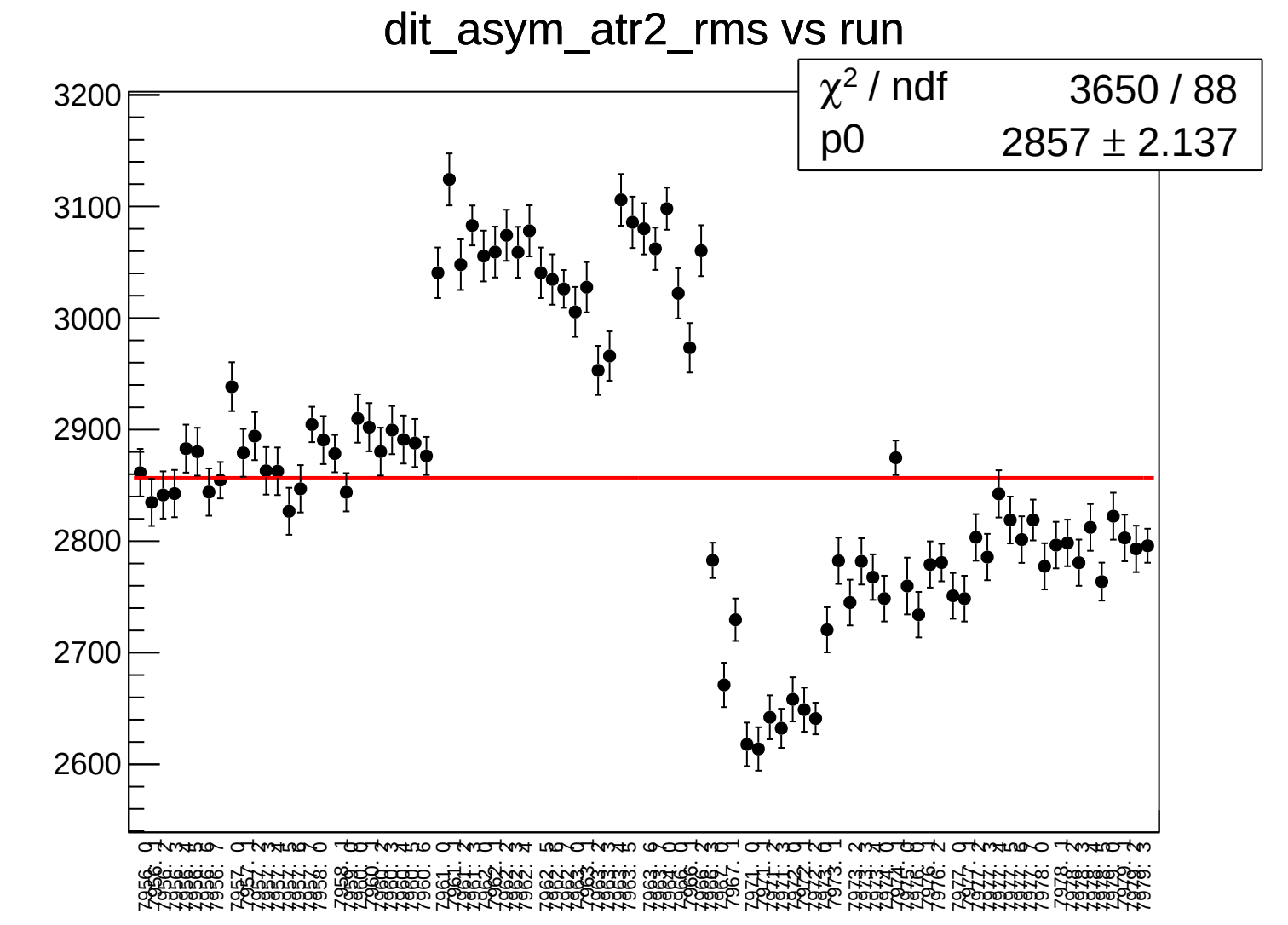

asym_atr2_eigen_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 88.86 / 88
p0 7036 ± 1.464e+04
pull
Entries 89
Mean −477.2
Std Dev 0
2
1
0
−1
−2
−3

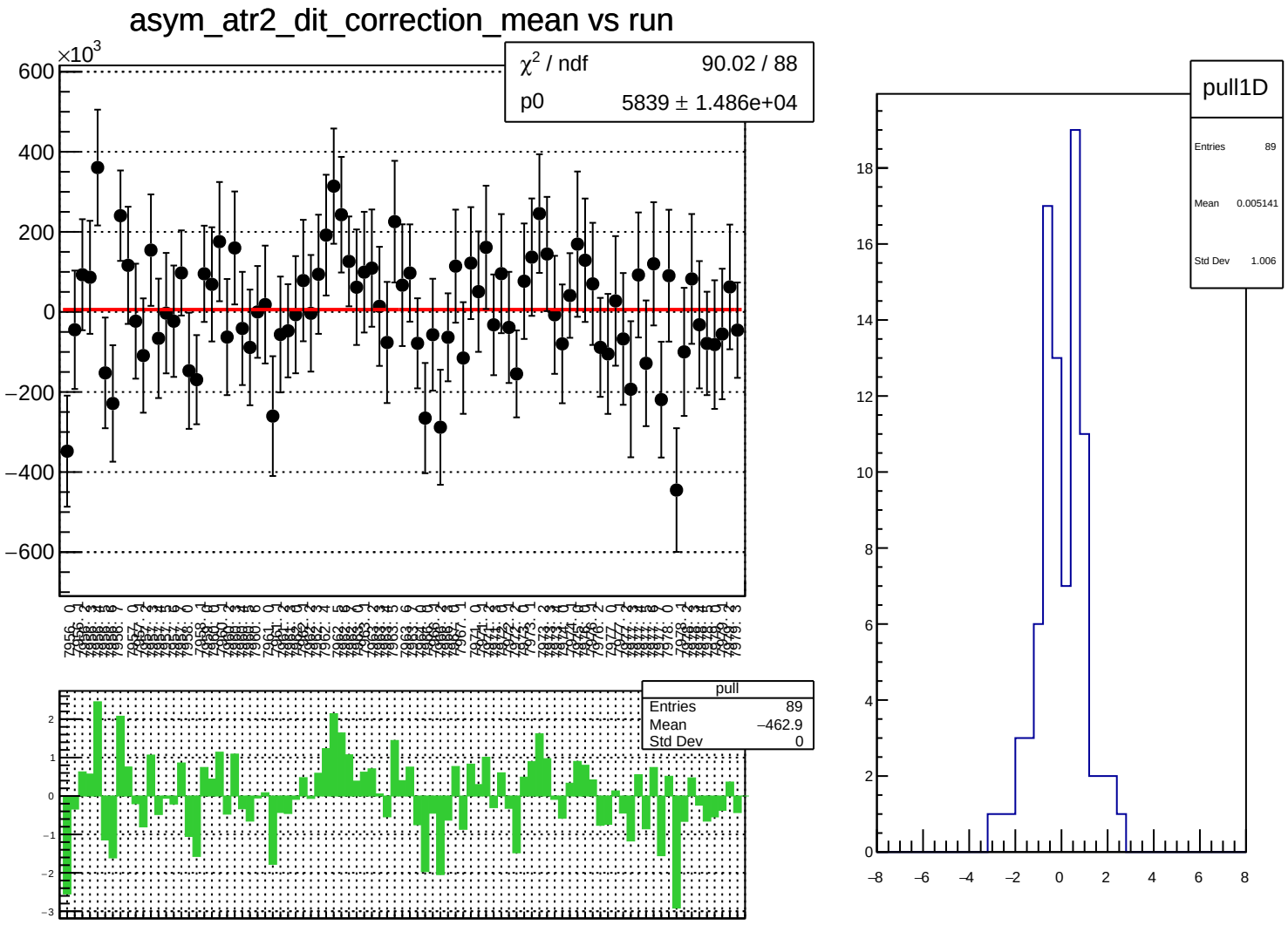

pull1D
Entries 89
Mean 0.004906
Std Dev 0.9992
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

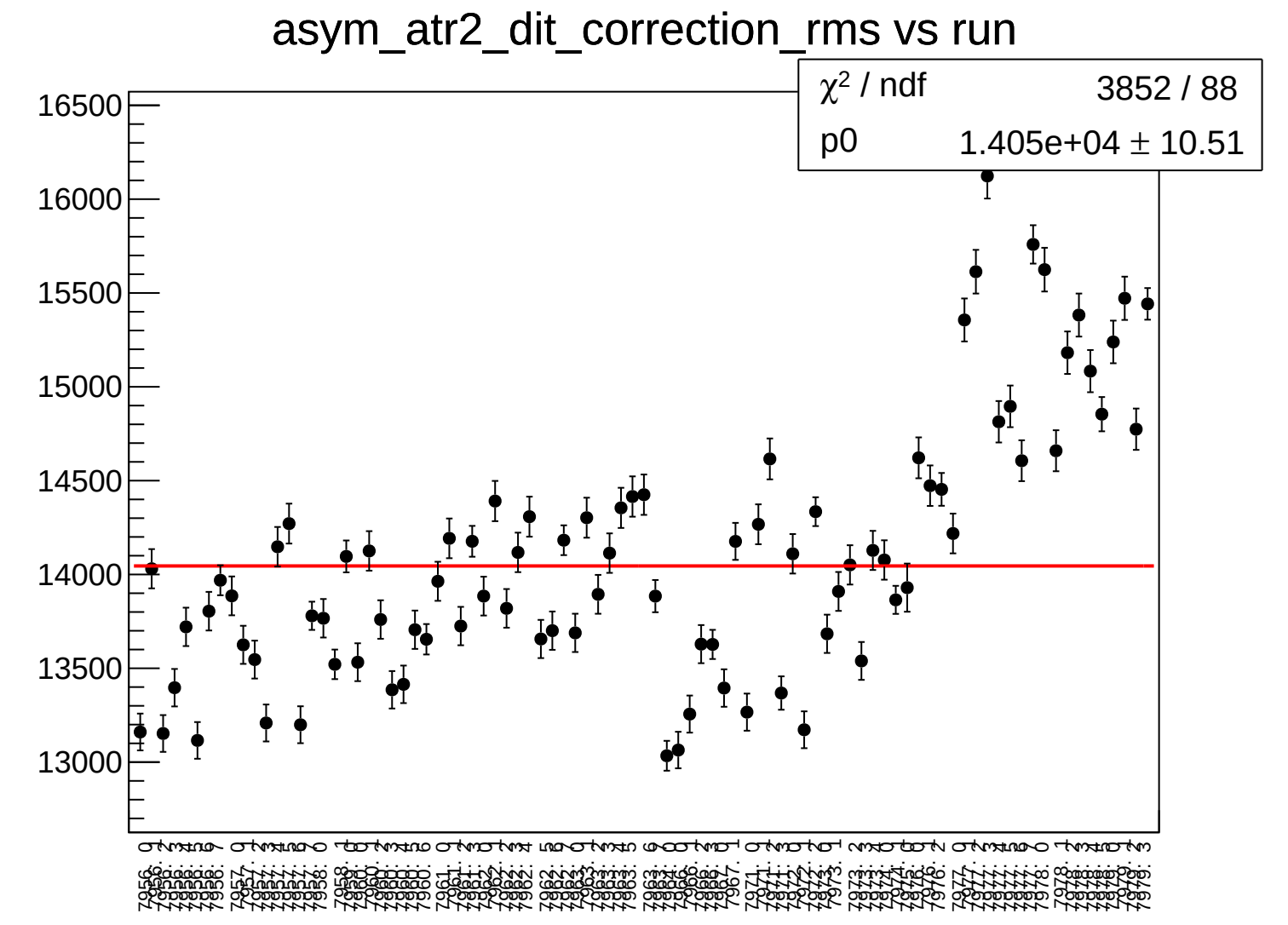

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 3691 / 88
p0 1.384e+04 ± 10.35
16000
15500
15000
14500
14000
13500
13000
12500
12000

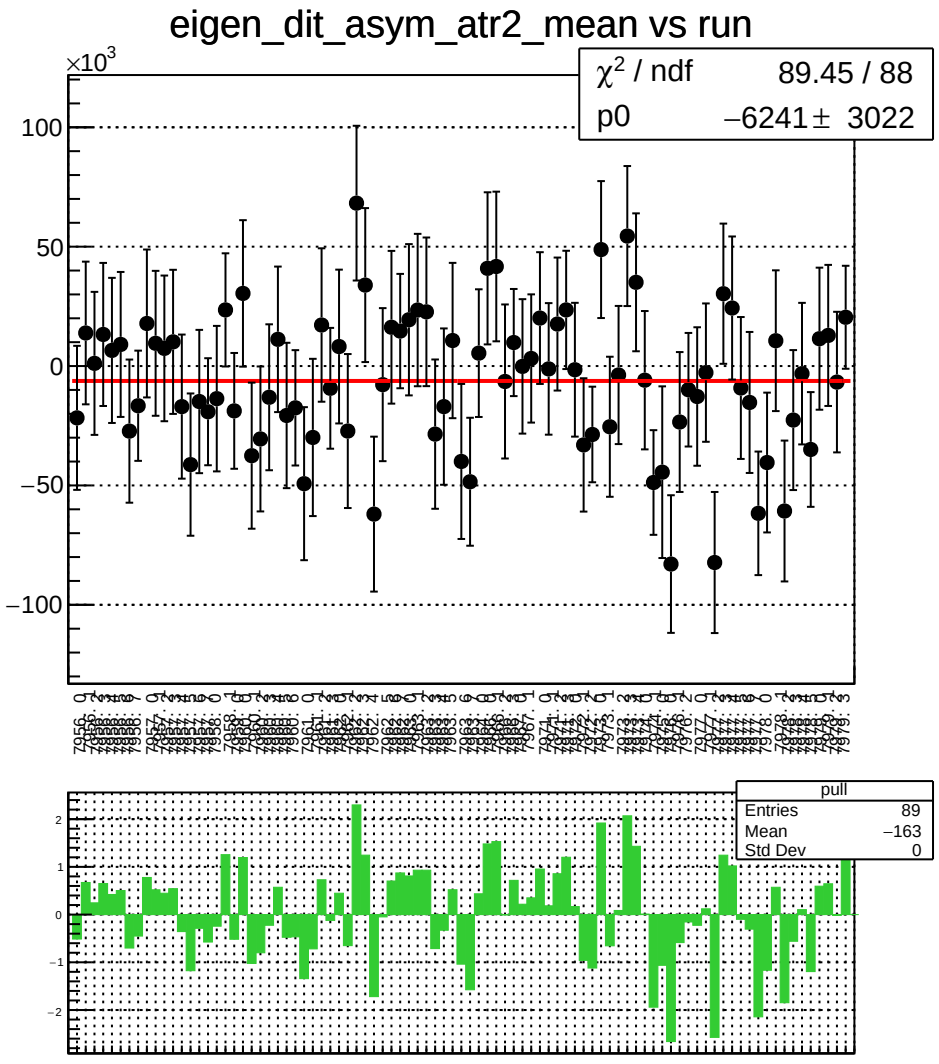

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 89.45 / 88
p0 −6241 ± 3022
100
50
0
−50
−100
pull
Entries 89
Mean −163
Std Dev 0
2
1
0
−1
−2

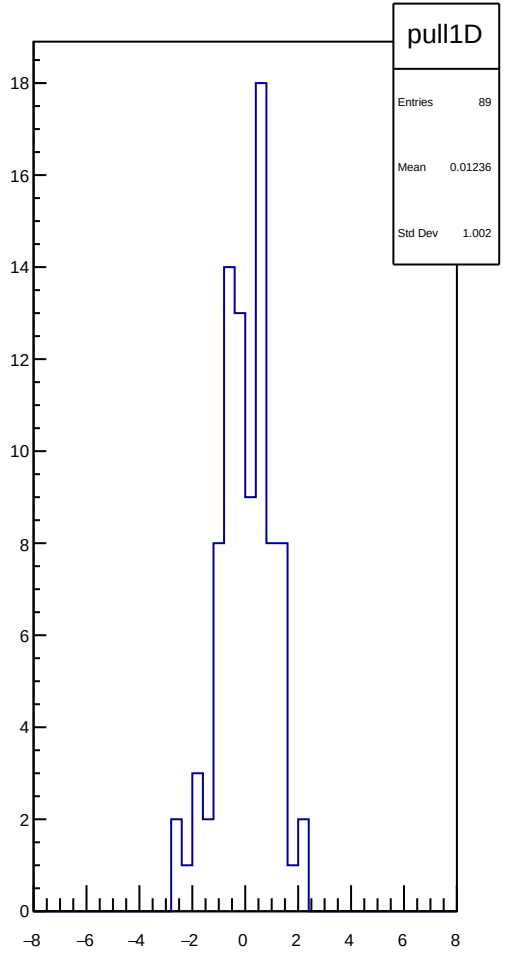

pull1D
Entries 89
Mean 0.01236
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

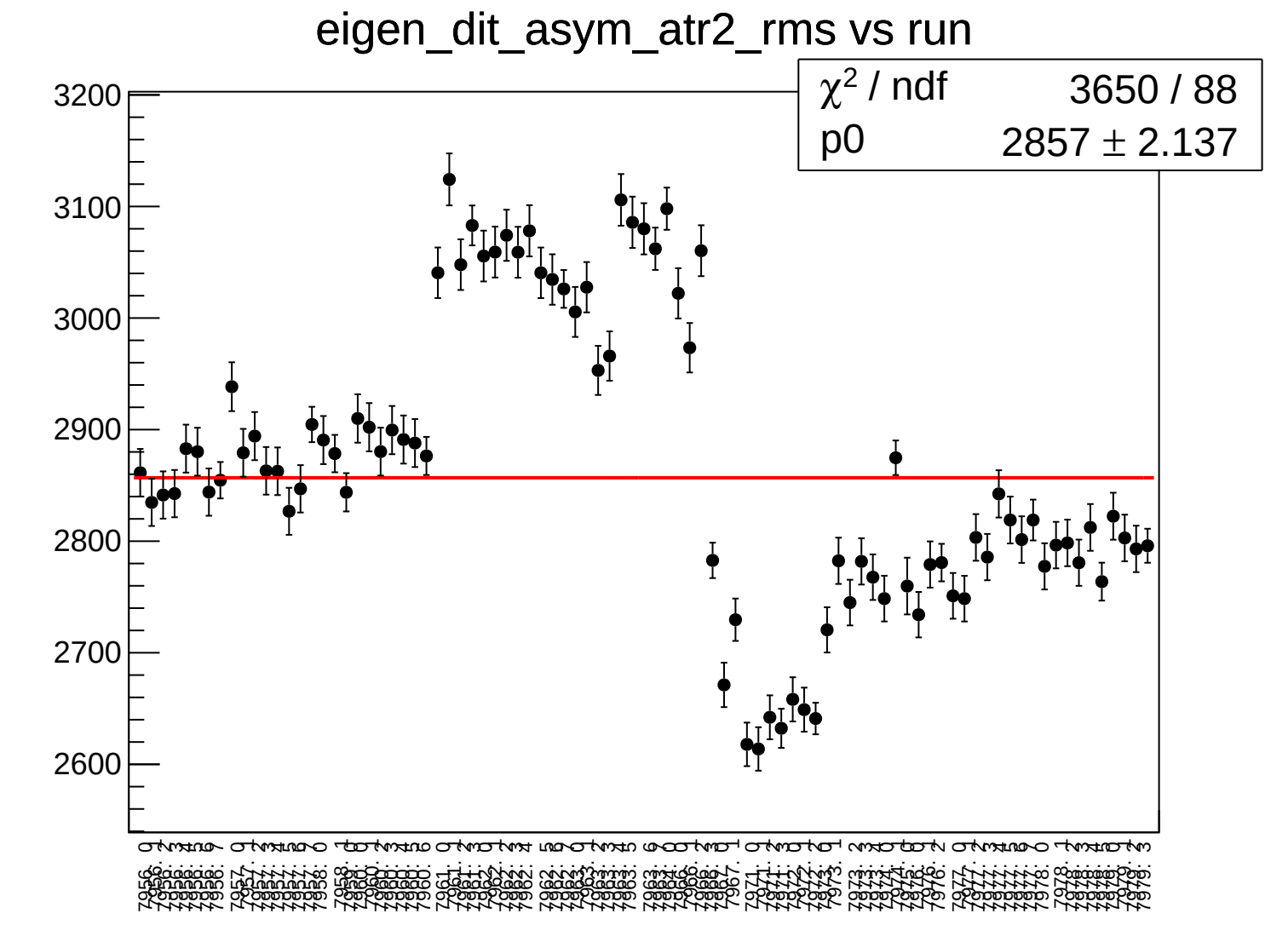

dit_asym_atr2_rms vs run
χ² / ndf 3650 / 88
p0 2857 ± 2.137
3200
3100
3000
2900
2800
2700
2600

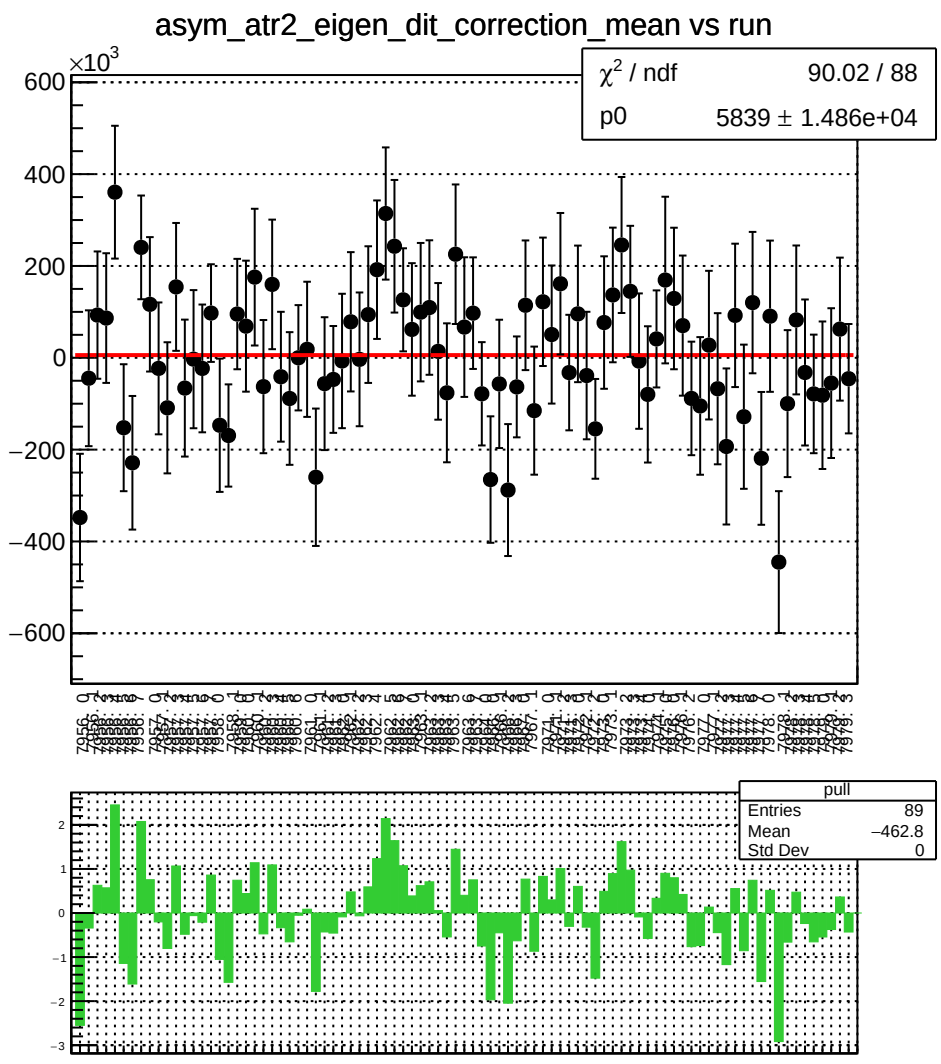

asym_atr2_dit_correction_mean vs run
χ² / ndf 90.02 / 88
p0 5839 ± 1.486e+04
×10³
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean −462.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.005141
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

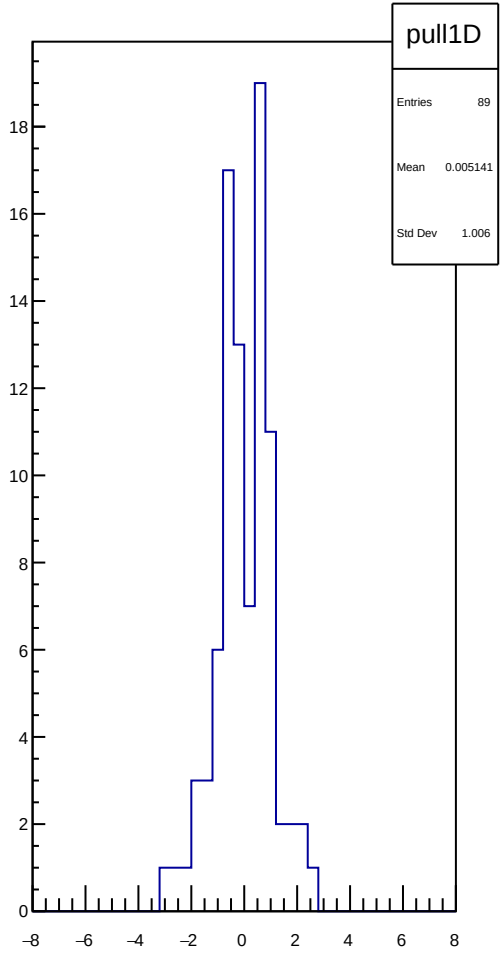

asym_atr2_dit_correction_rms vs run
χ² / ndf 3852 / 88
p0 1.405e+04 ± 10.51
16500
16000
15500
15000
14500
14000
13500
13000

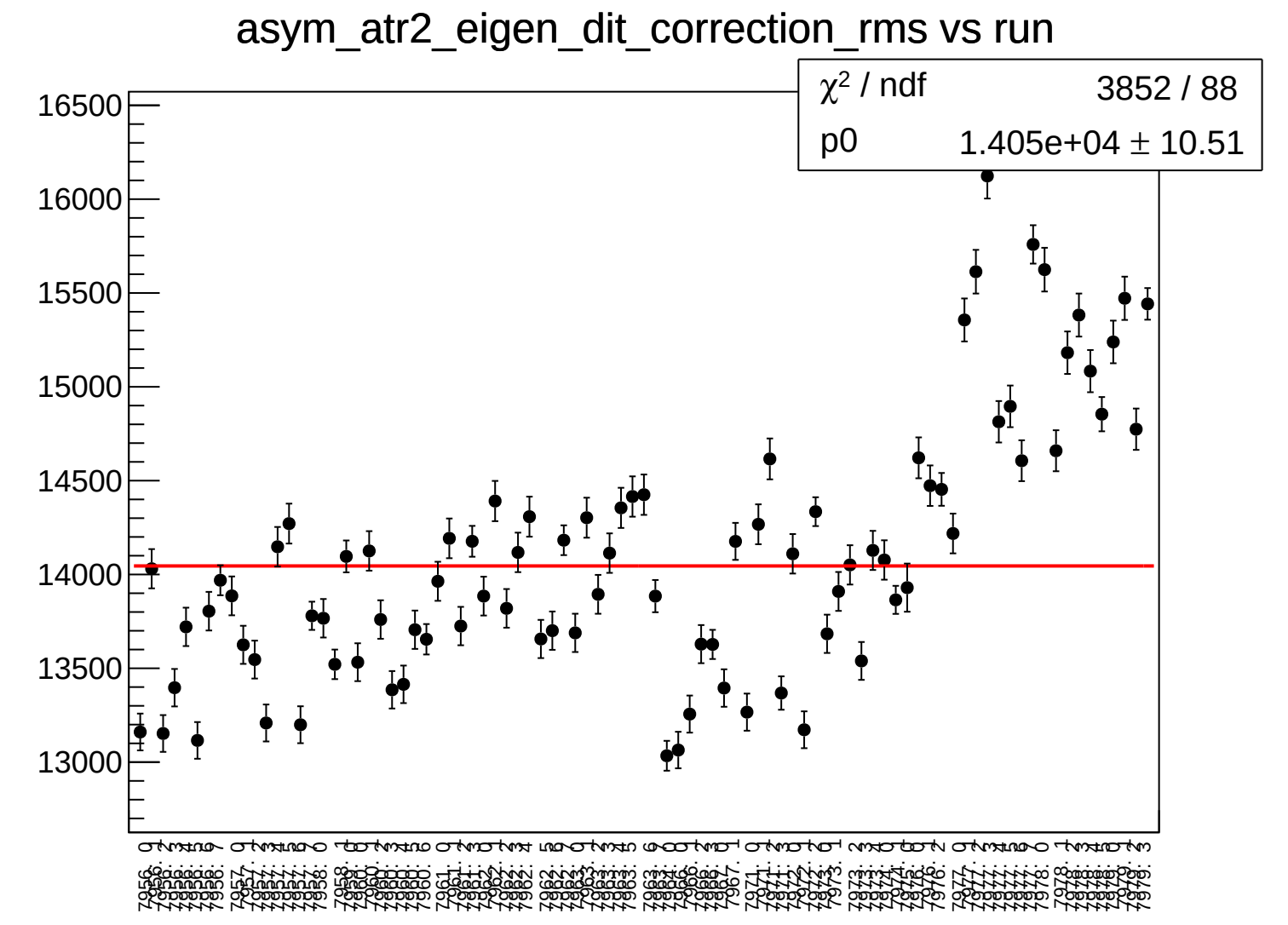

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 89.45 / 88
p0 −6241 ± 3022
100
50
0
−50
−100
pull
Entries 89
Mean −163
Std Dev 0
2
1
0
−1
−2

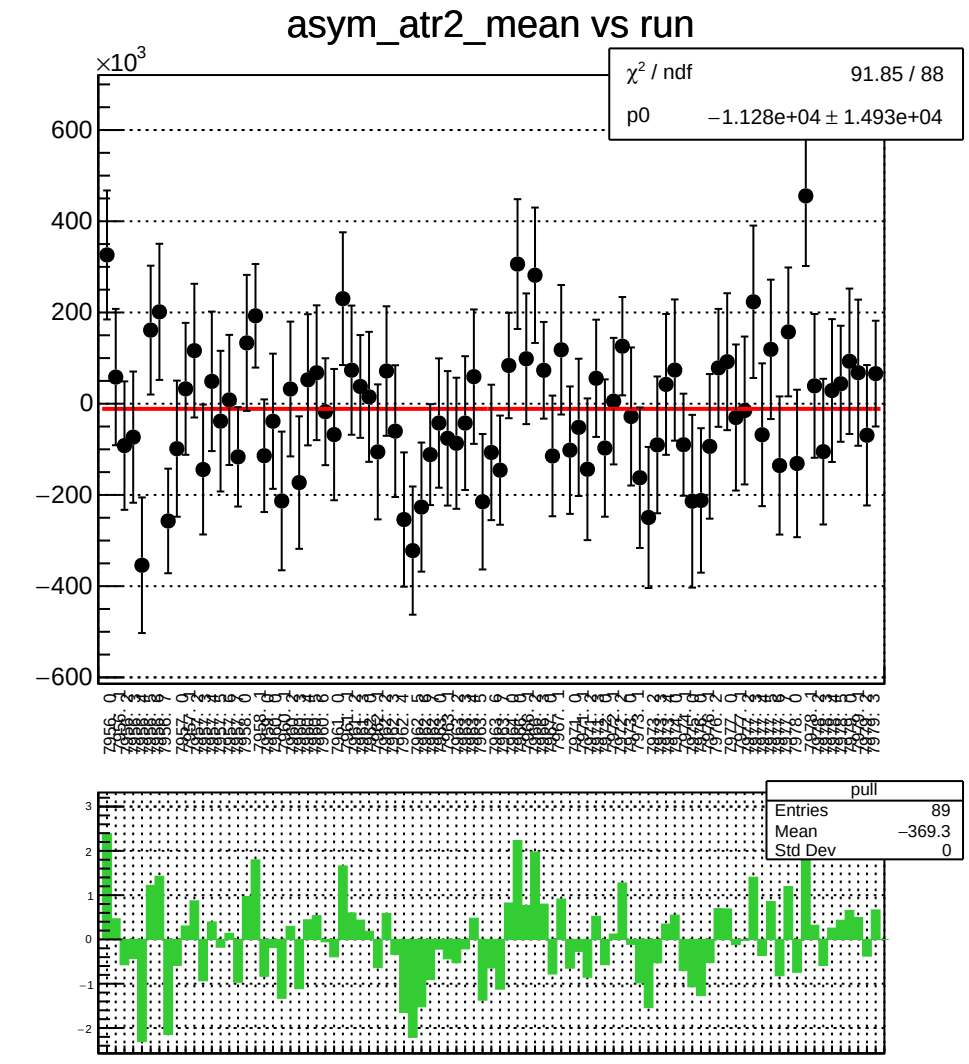

pull1D
Entries 89
Mean 0.01236
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

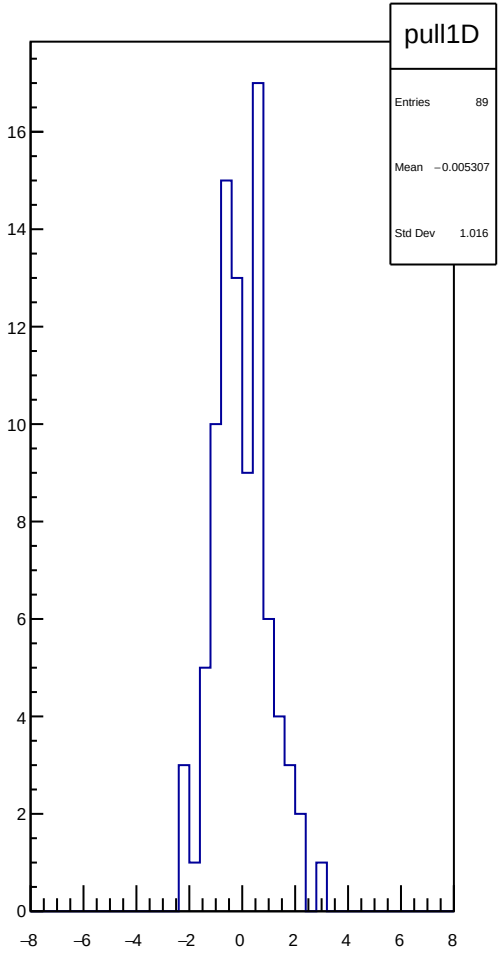

eigen_dit_asym_atr2_rms vs run
χ² / ndf 3650 / 88
p0 2857 ± 2.137
3200
3100
3000
2900
2800
2700
2600

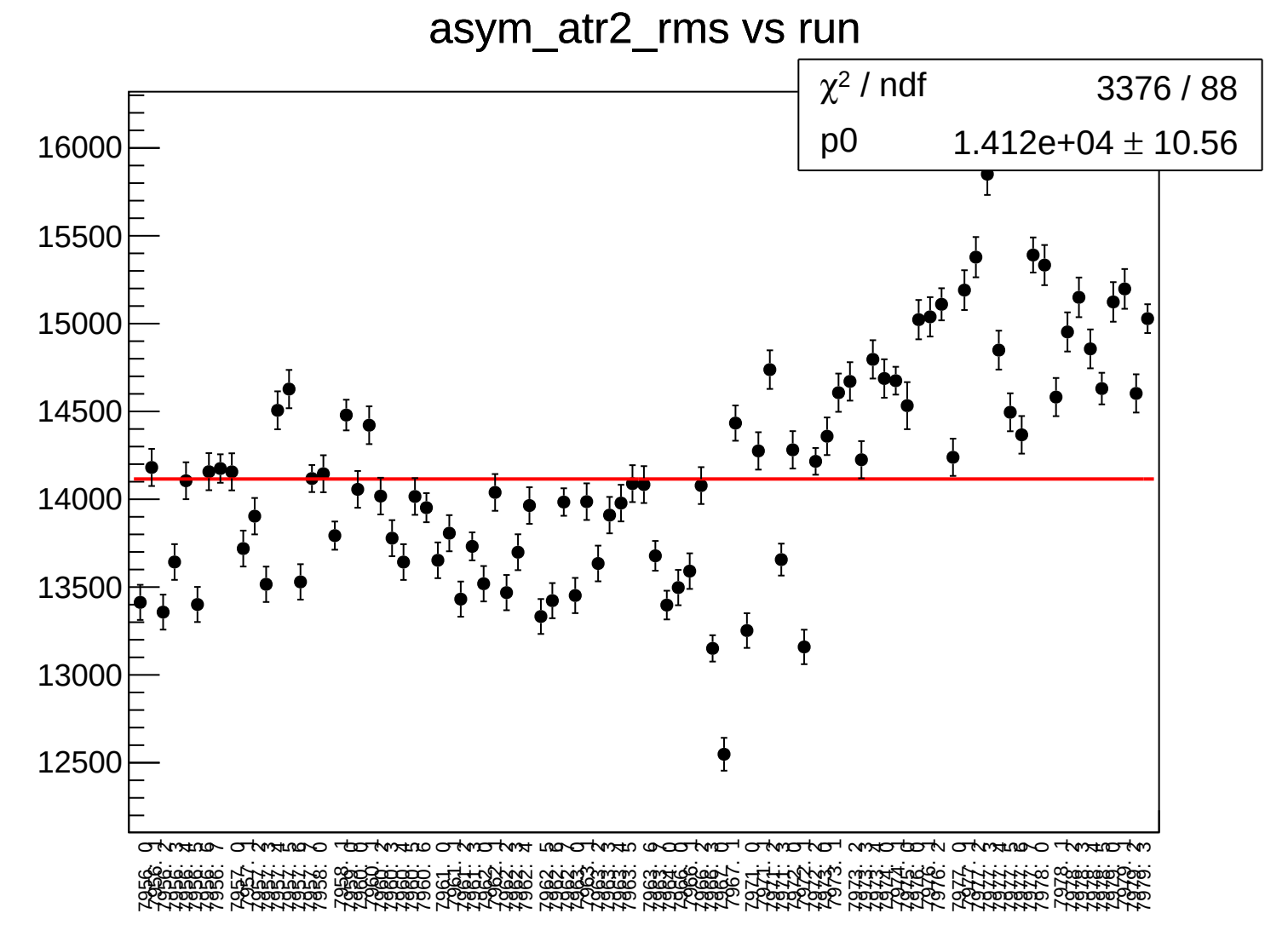

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.02 / 88
p0 5839 ± 1.486e+04
pull
Entries 89
Mean −462.8
Std Dev 0

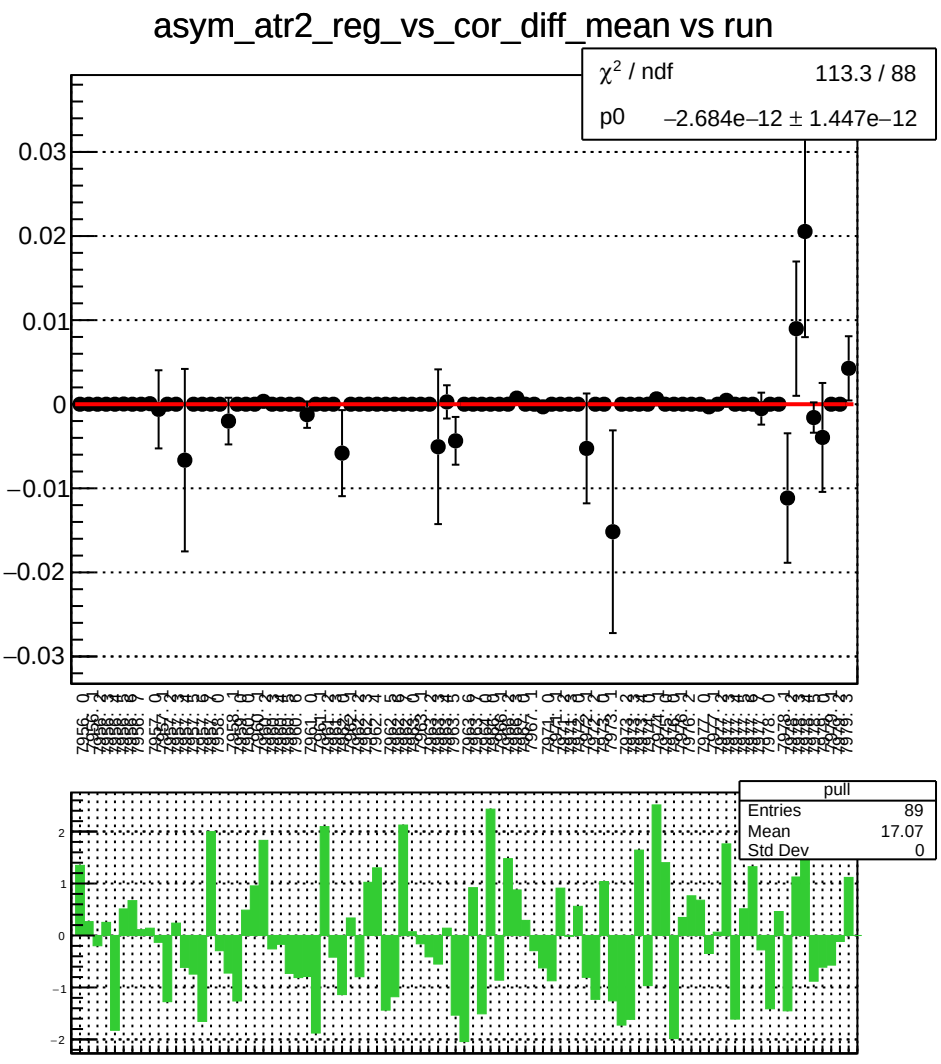

pull1D
Entries 89
Mean 0.005141
Std Dev 1.006

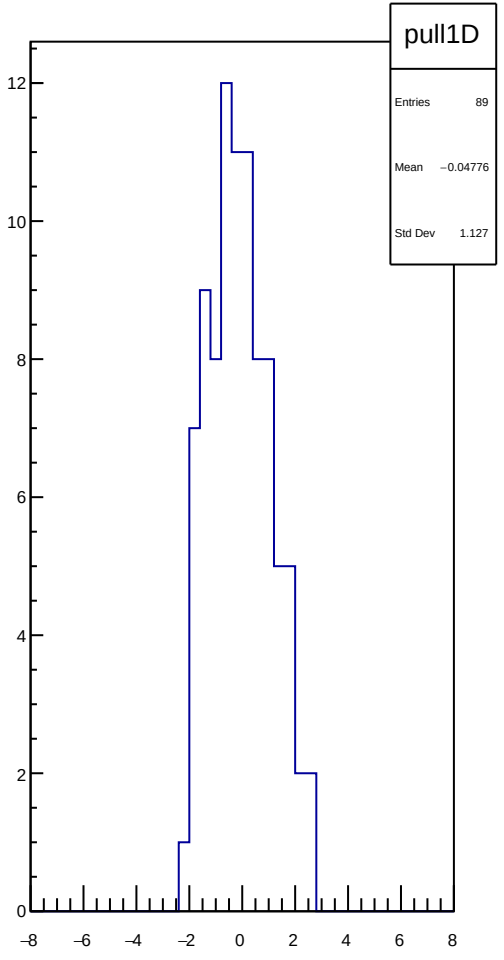

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 3852 / 88
p0 1.405e+04 ± 10.51
16500
16000
15500
15000
14500
14000
13500
13000

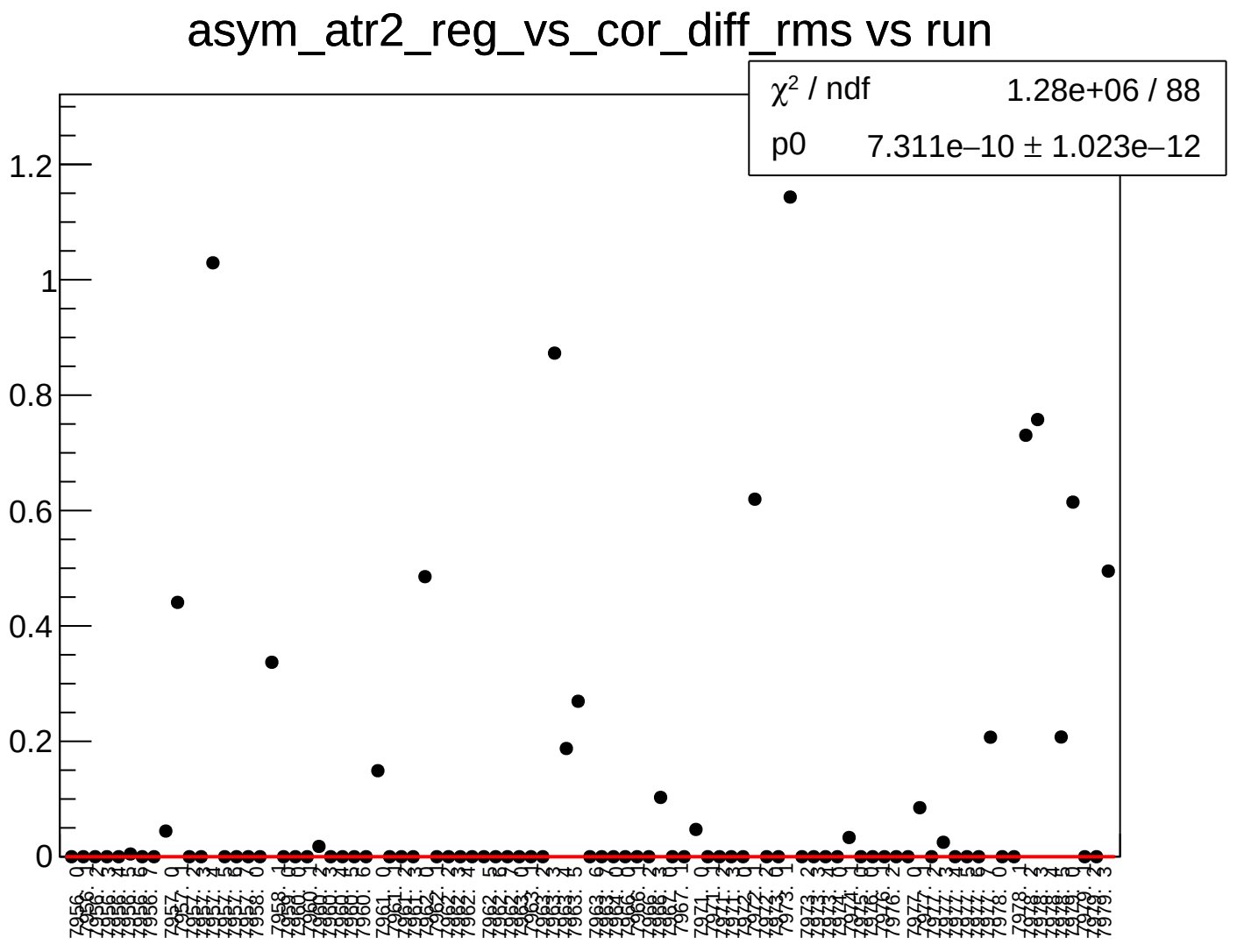

asym_atr2_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 91.85 / 88
p0 −1.128e+04 ± 1.493e+04
pull
Entries 89
Mean −369.3
Std Dev 0
3
2
1
0
−1
−2

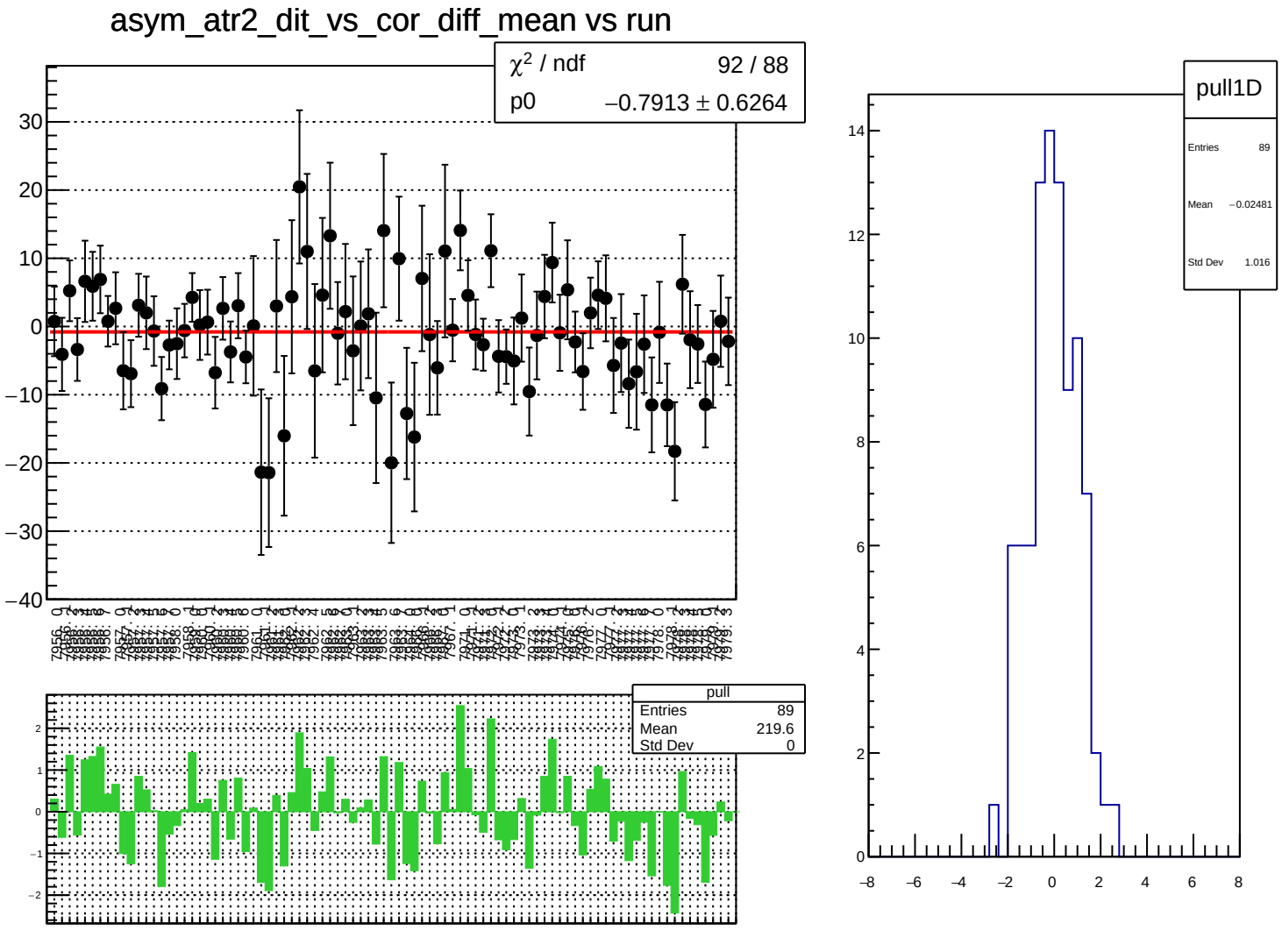

pull1D
Entries 89
Mean −0.005307
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

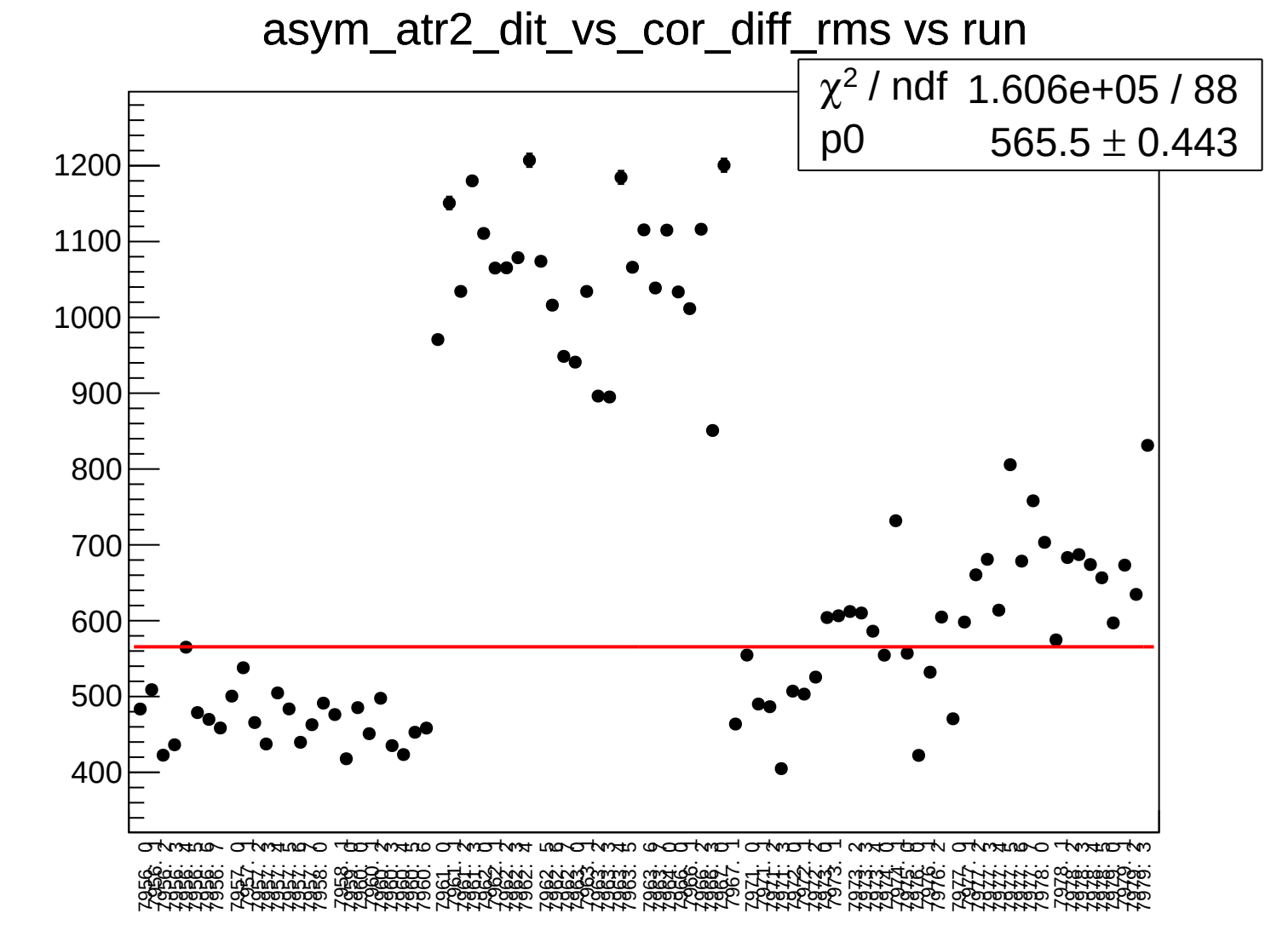

asym_atr2_rms vs run
χ² / ndf 3376 / 88
p0 1.412e+04 ± 10.56
16000
15500
15000
14500
14000
13500
13000
12500

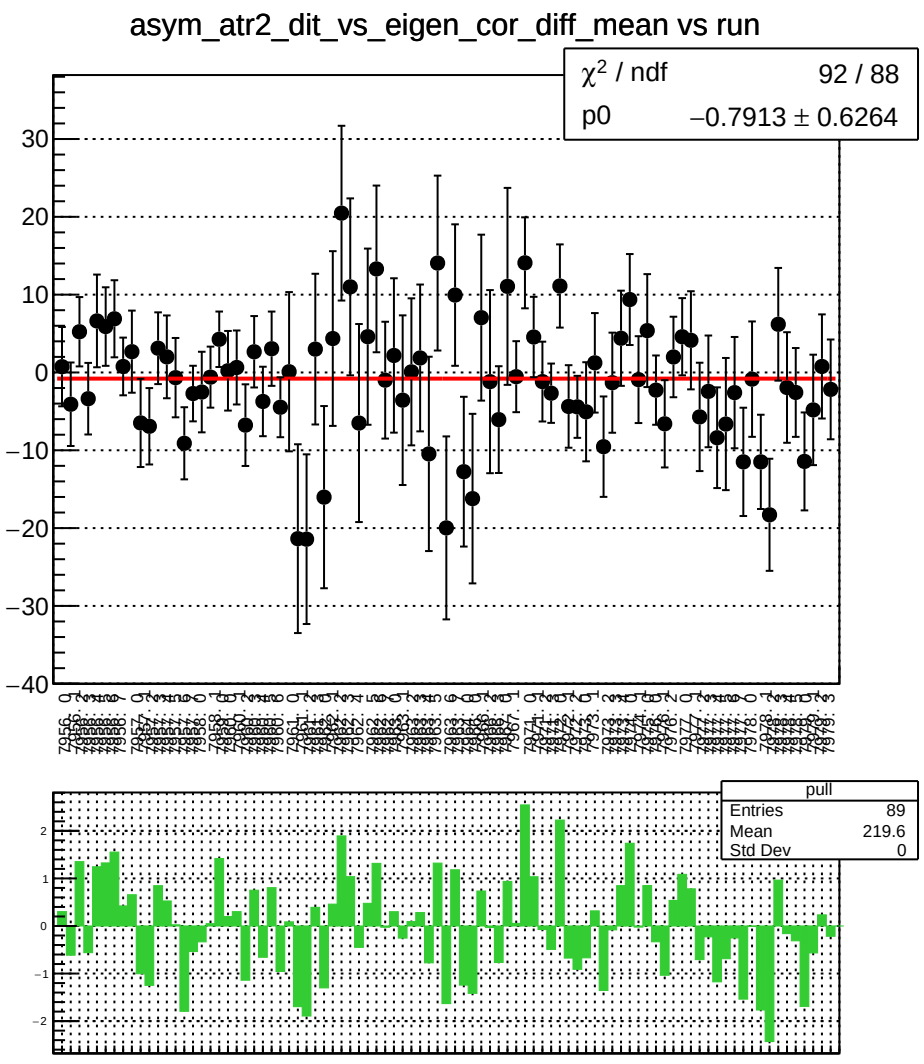

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 113.3 / 88
p0 −2.684e−12 ± 1.447e−12
pull
Entries 89
Mean 17.07
Std Dev 0

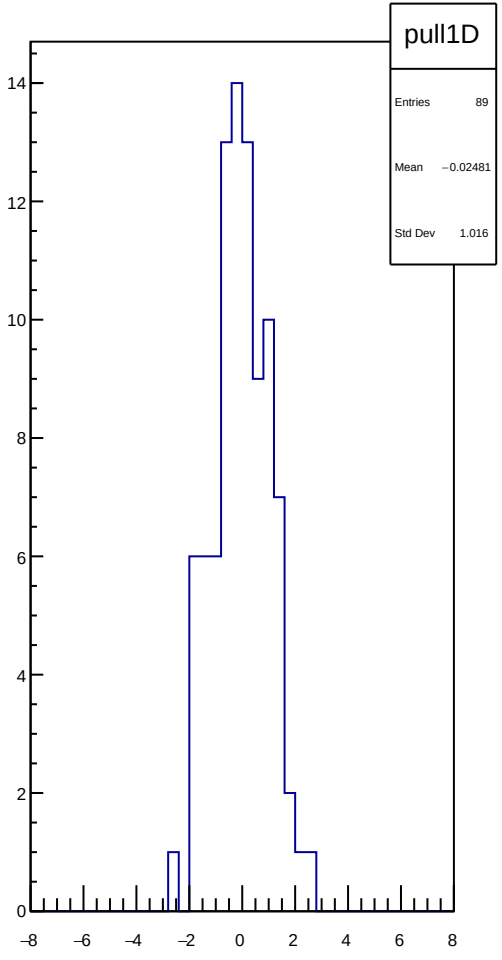

pull1D
Entries 89
Mean −0.04776
Std Dev 1.127

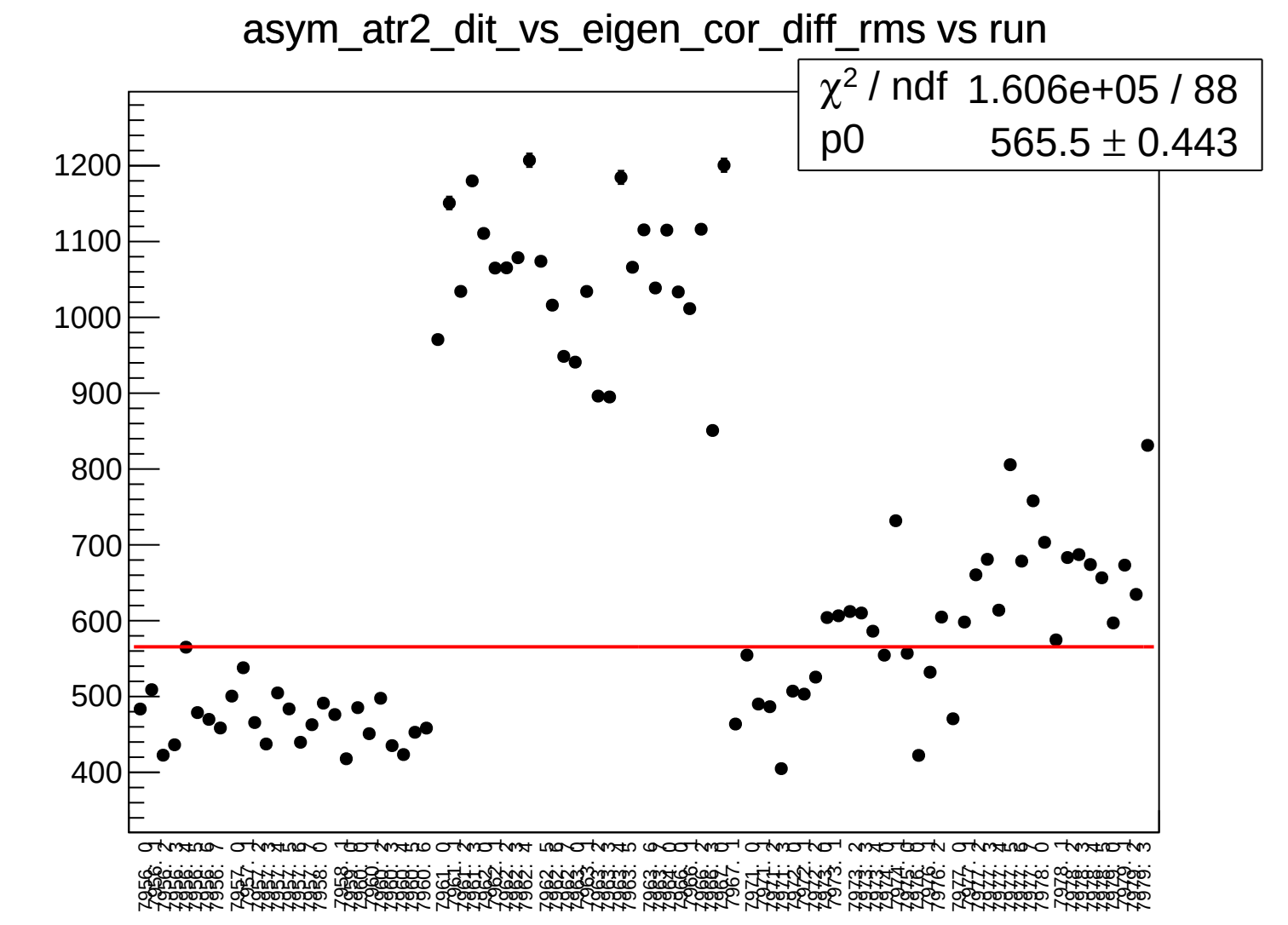

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.28e+06 / 88
p0 7.311e−10 ± 1.023e−12
1.2
1
0.8
0.6
0.4
0.2
0

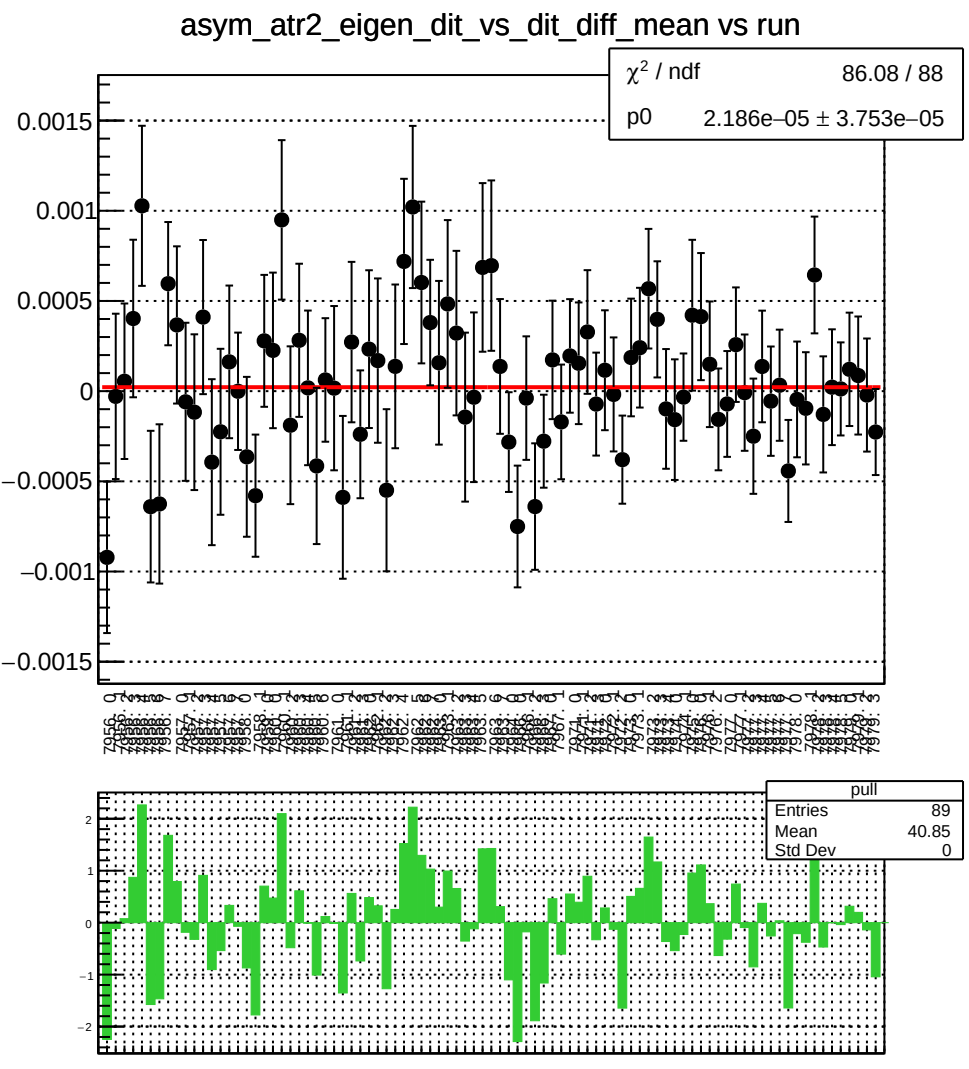

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 92 / 88
p0 −0.7913 ± 0.6264
pull
Entries 89
Mean 219.6
Std Dev 0
pull1D
Entries 89
Mean −0.02481
Std Dev 1.016

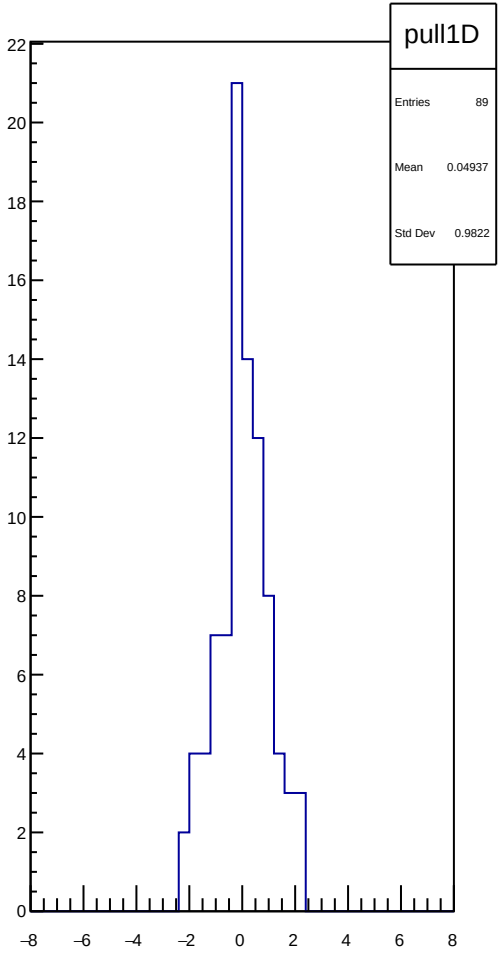

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.606e+05 / 88
p0 565.5 ± 0.443
1200
1100
1000
900
800
700
600
500
400

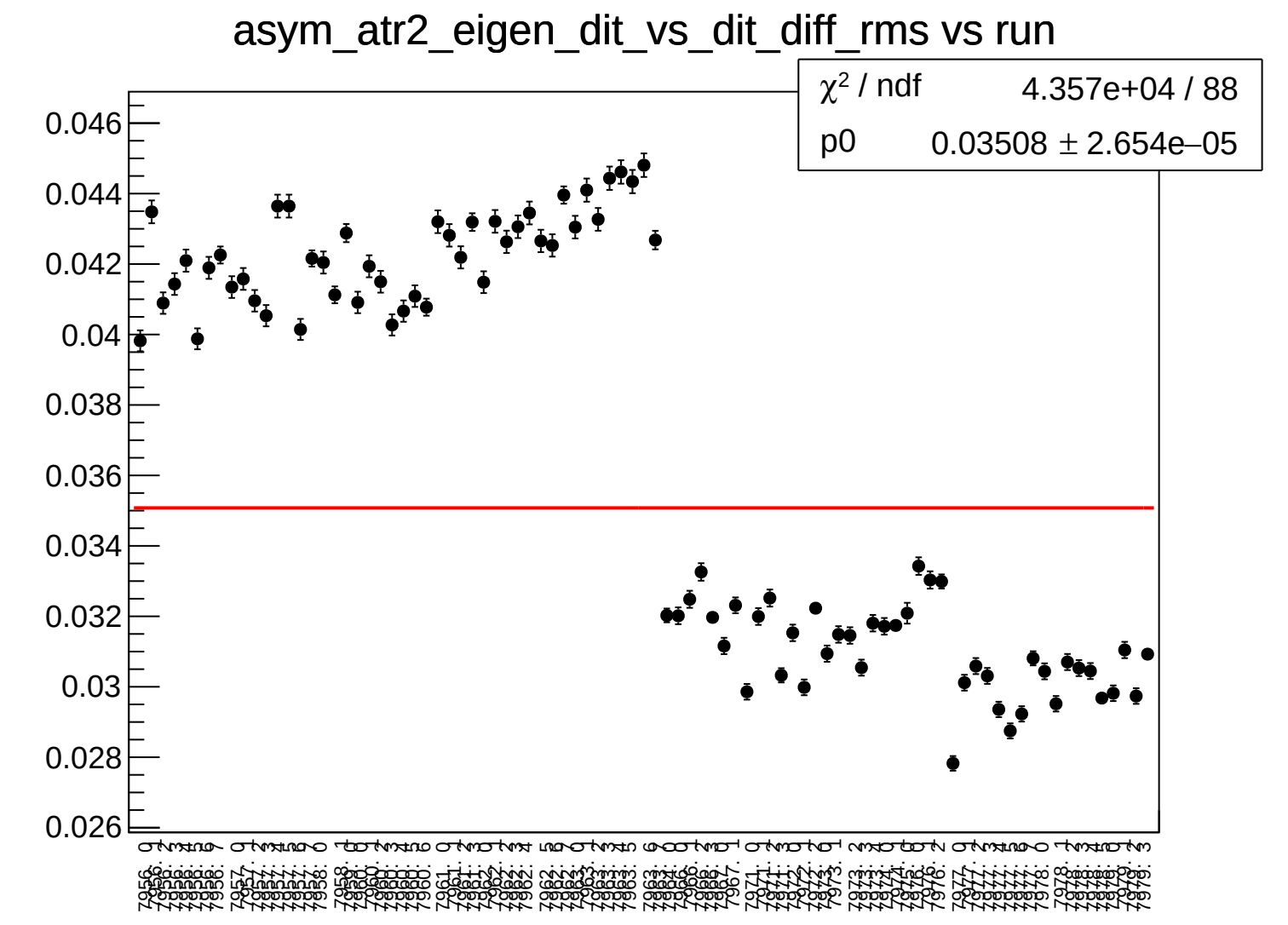

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92 / 88
p0 −0.7913 ± 0.6264
pull
Entries 89
Mean 219.6
Std Dev 0

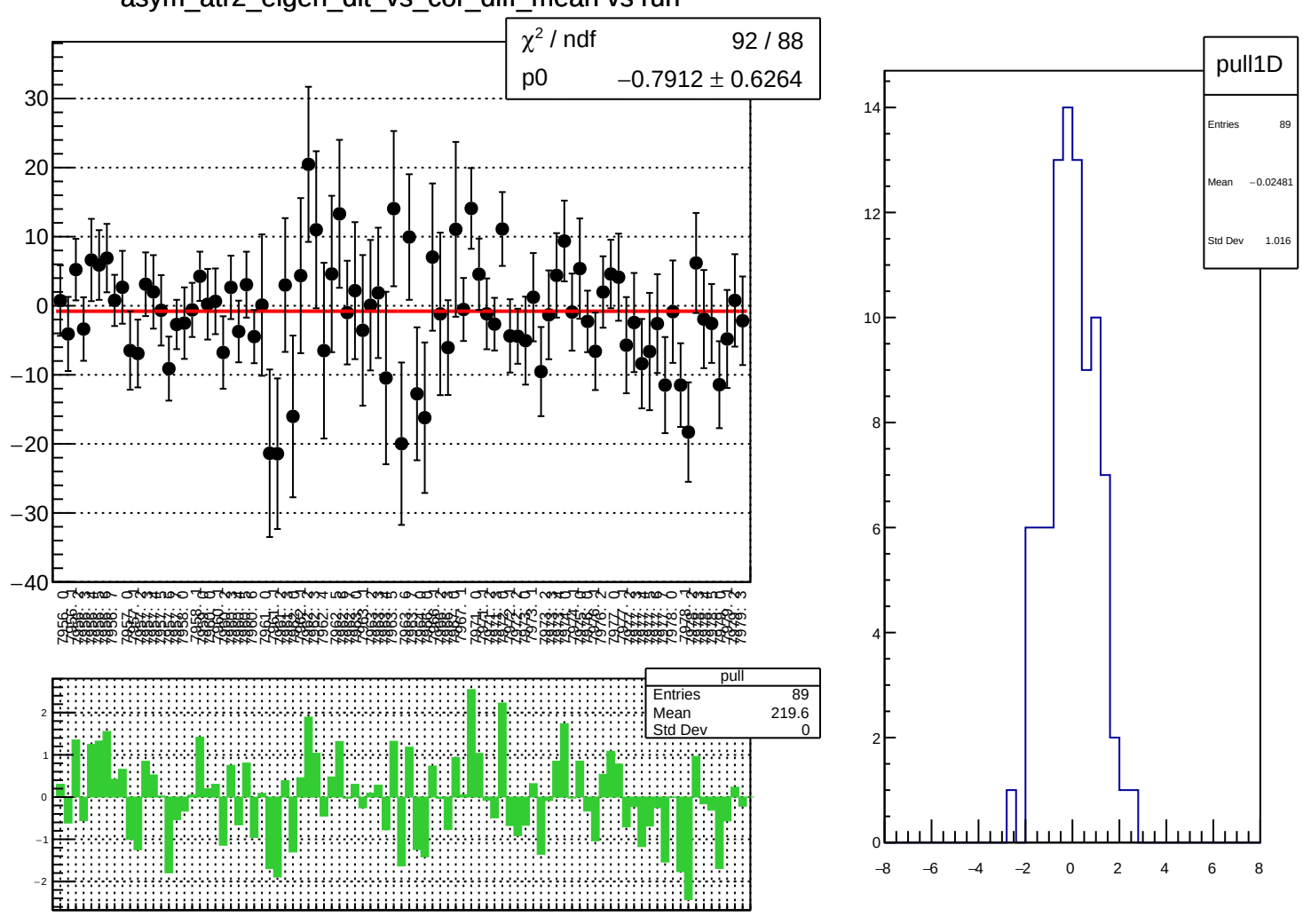

pull1D
Entries 89
Mean −0.02481
Std Dev 1.016

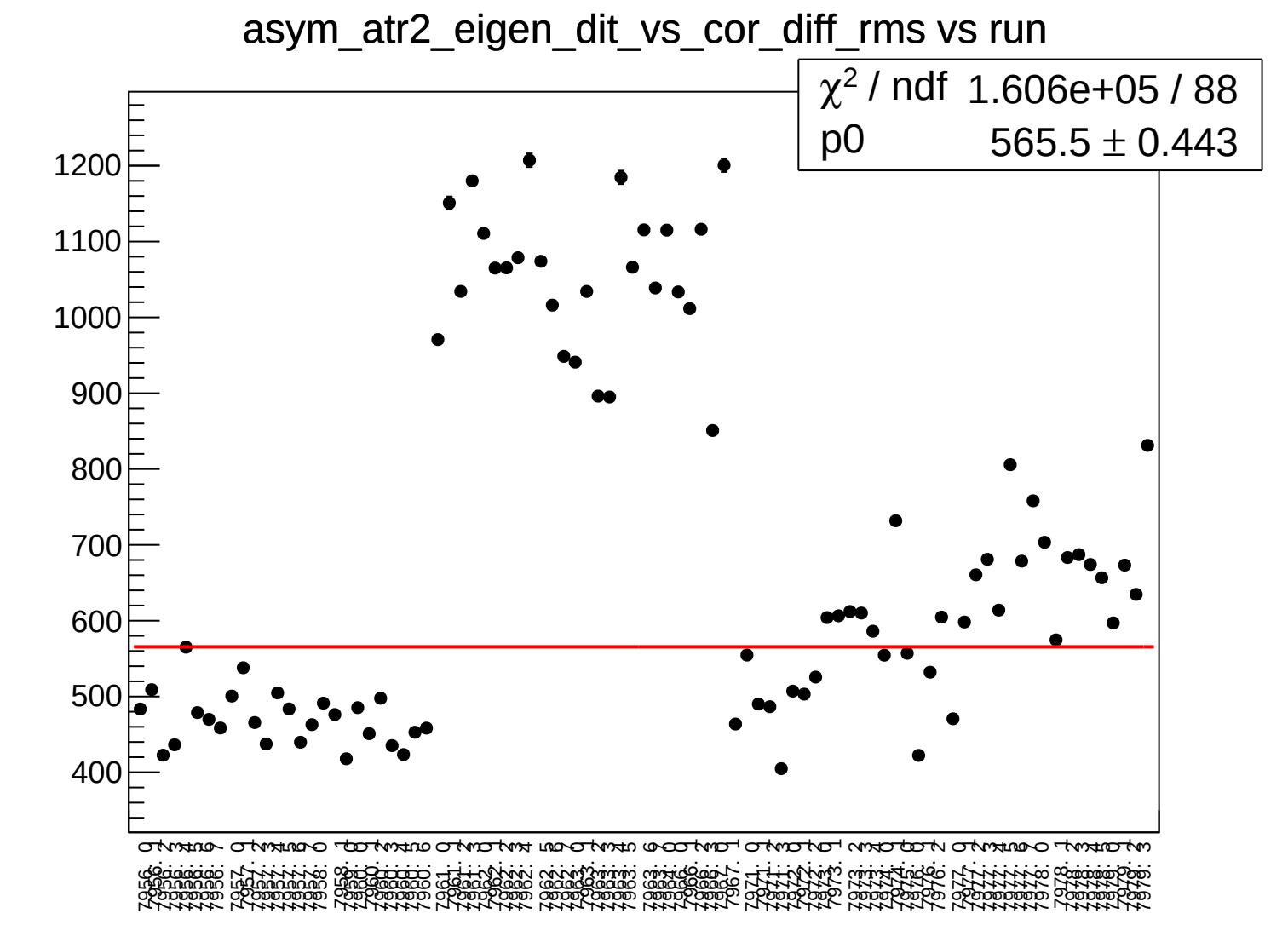

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.606e+05 / 88
p0 565.5 ± 0.443
1200
1100
1000
900
800
700
600
500
400

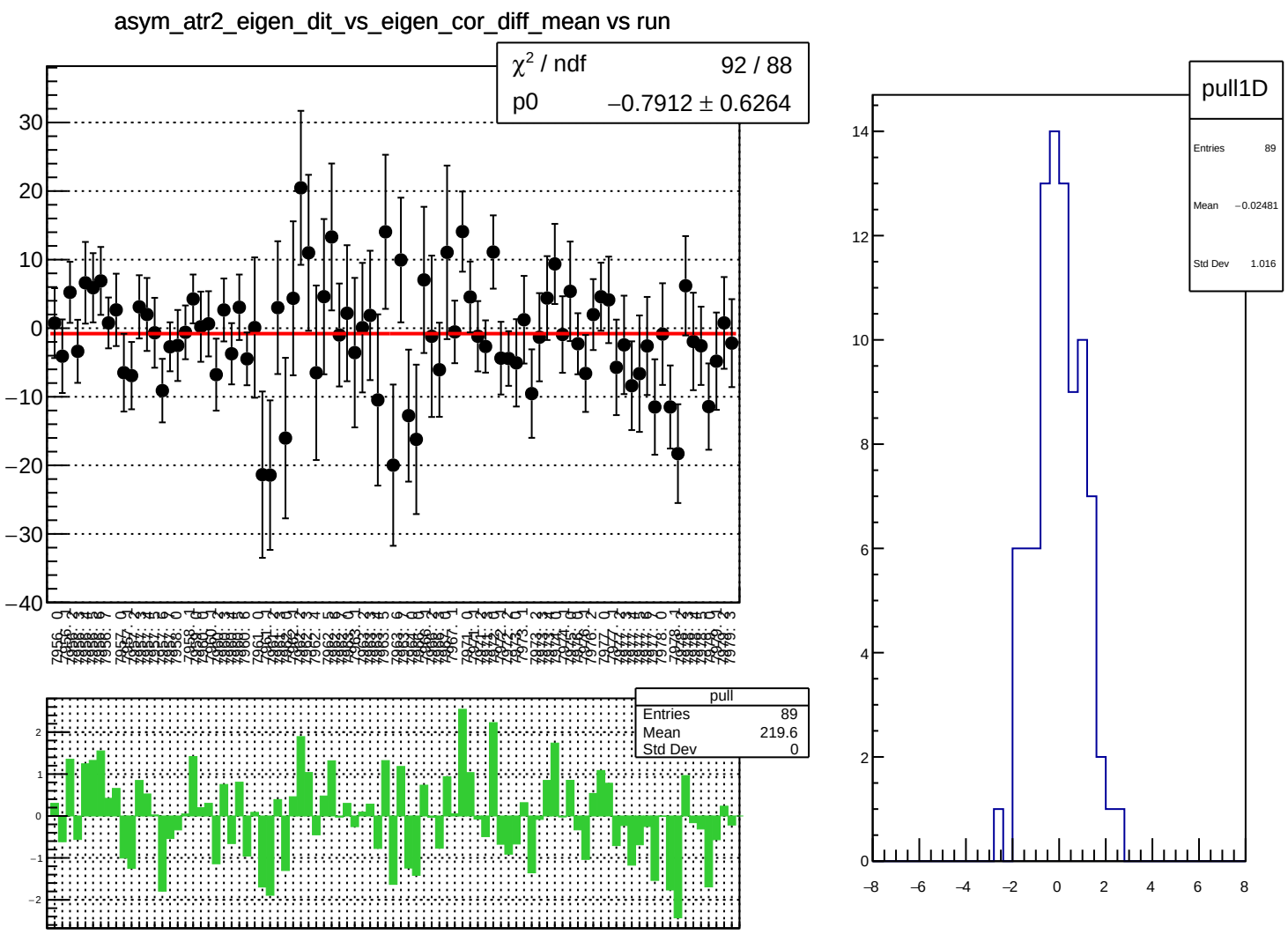

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 86.08 / 88
p0 2.186e−05 ± 3.753e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 40.85
Std Dev 0
2
1
0
−1
−2

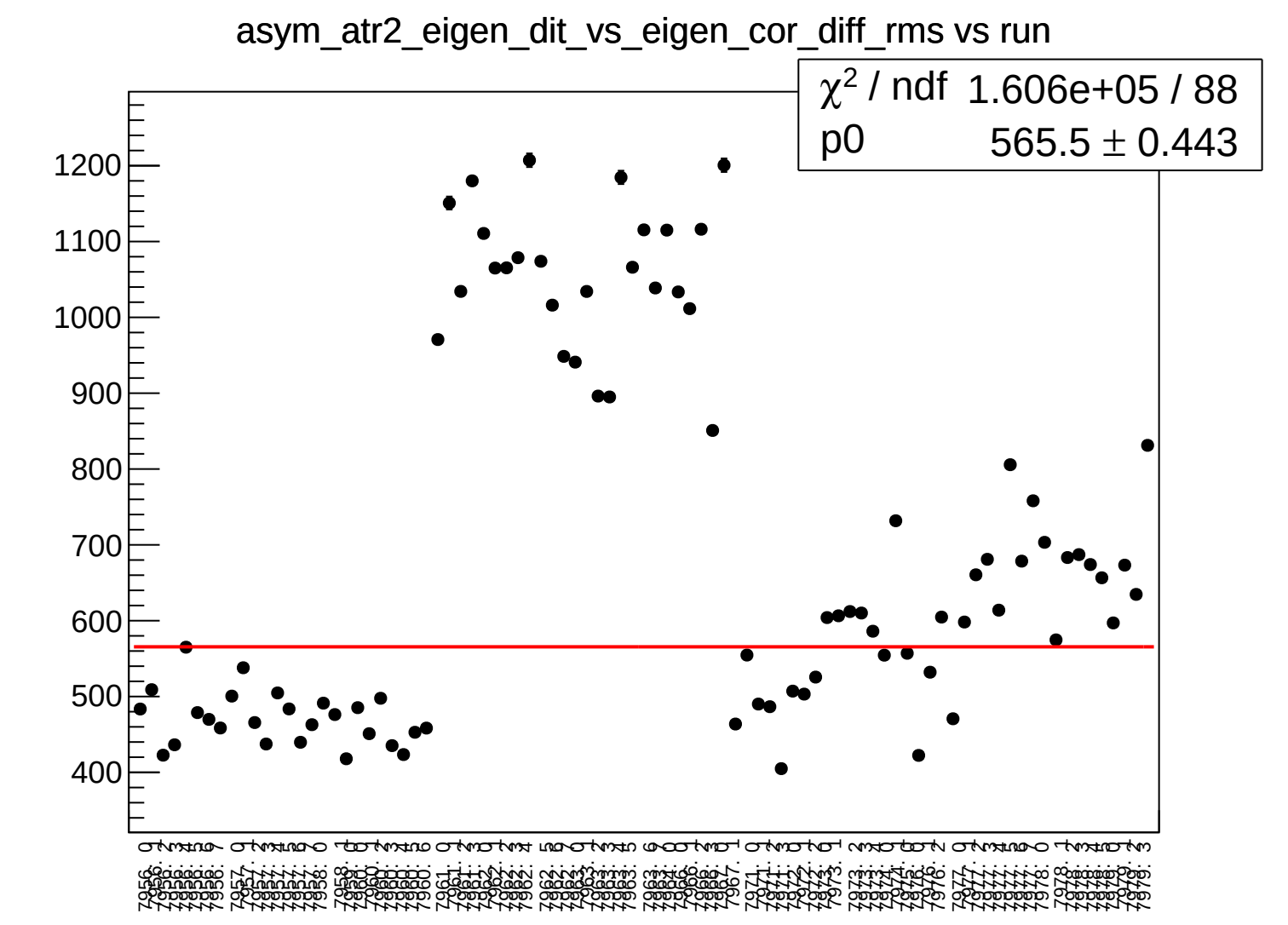

pull1D
Entries 89
Mean 0.04937
Std Dev 0.9822
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

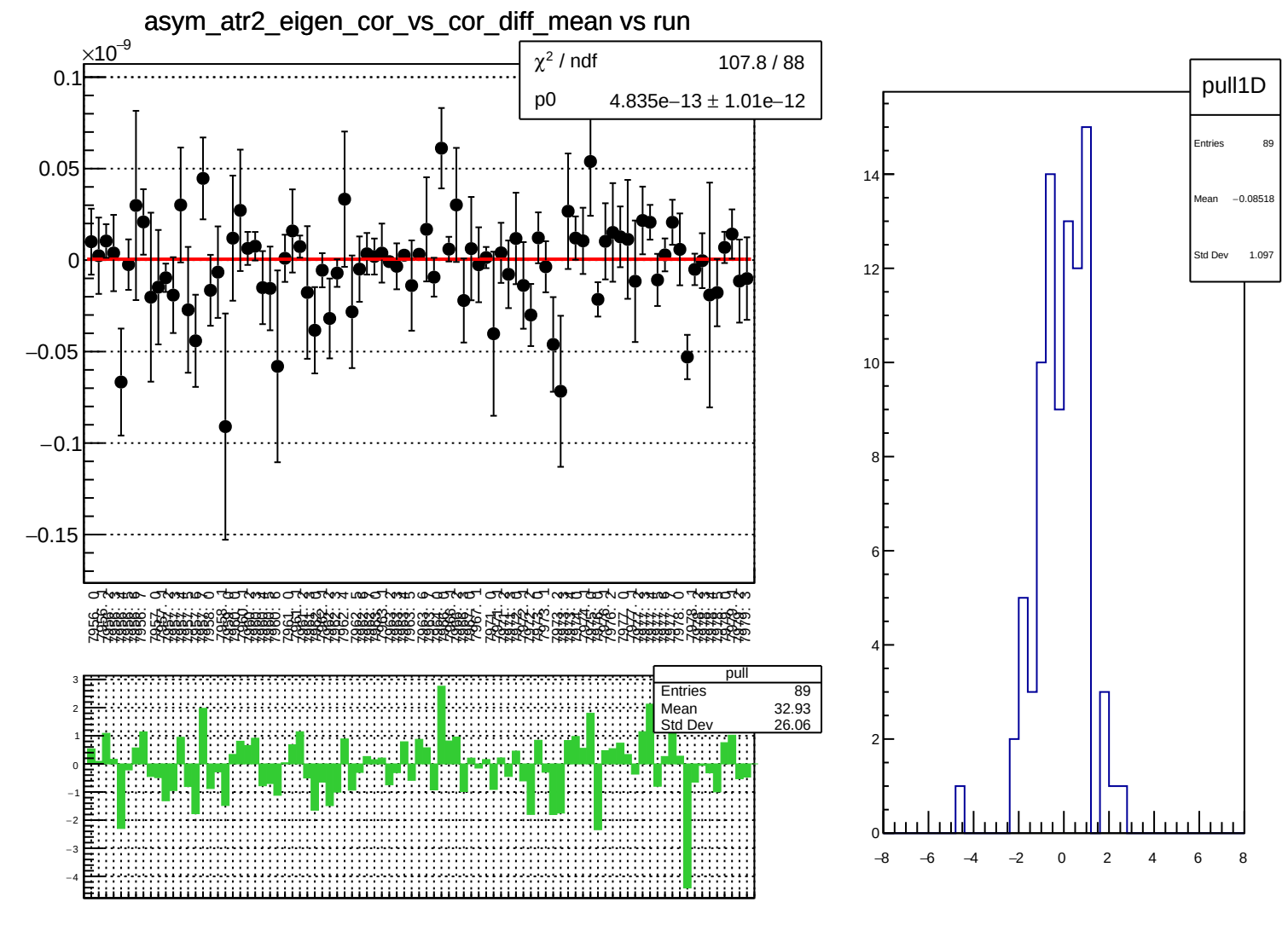

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.357e+04 / 88
p0 0.03508 ± 2.654e−05
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026

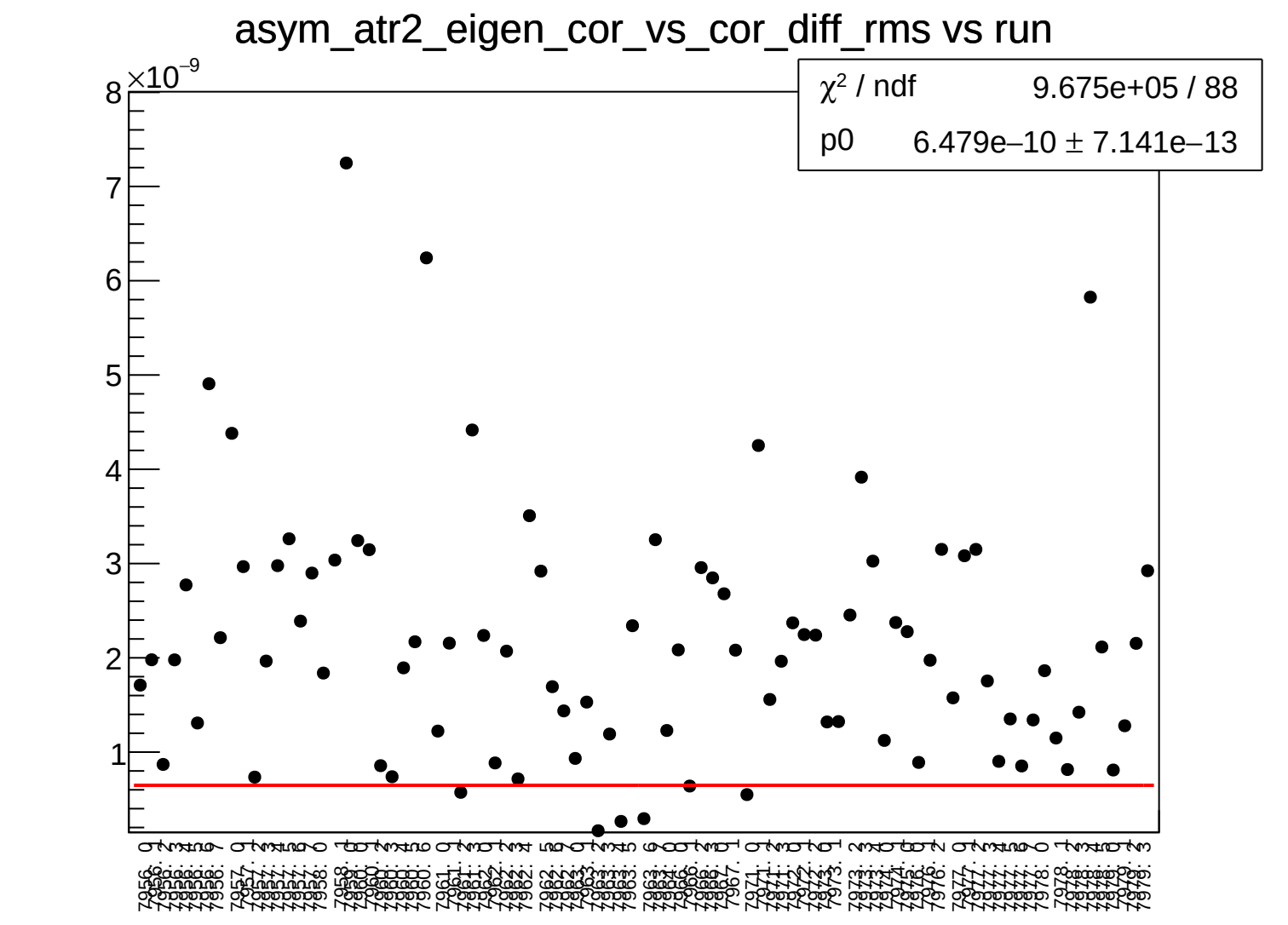

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92 / 88
p0 −0.7912 ± 0.6264
pull
Entries 89
Mean 219.6
Std Dev 0
pull1D
Entries 89
Mean −0.02481
Std Dev 1.016

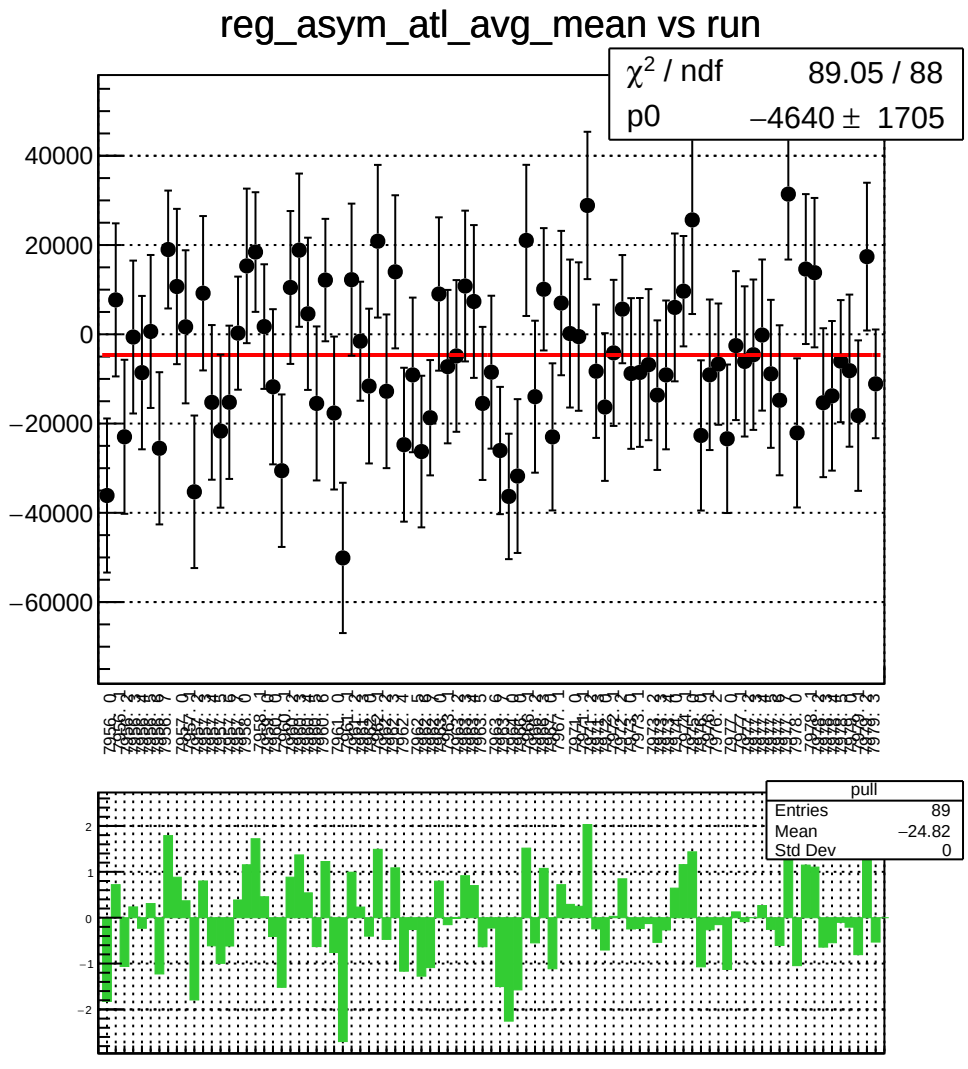

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.606e+05 / 88
p0 565.5 ± 0.443
1200
1100
1000
900
800
700
600
500
400

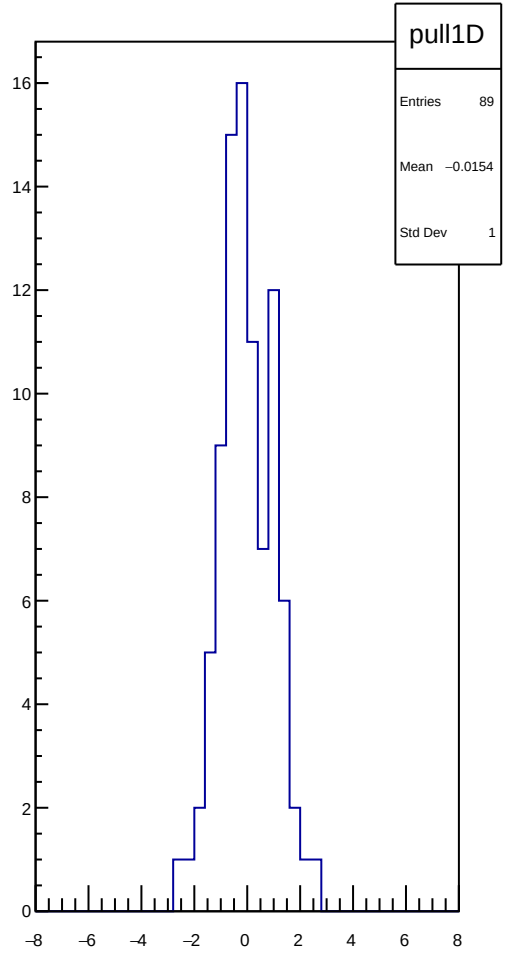

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92 / 88
p0 −0.7912 ± 0.6264
pull
Entries 89
Mean 219.6
Std Dev 0
pull1D
Entries 89
Mean −0.02481
Std Dev 1.016

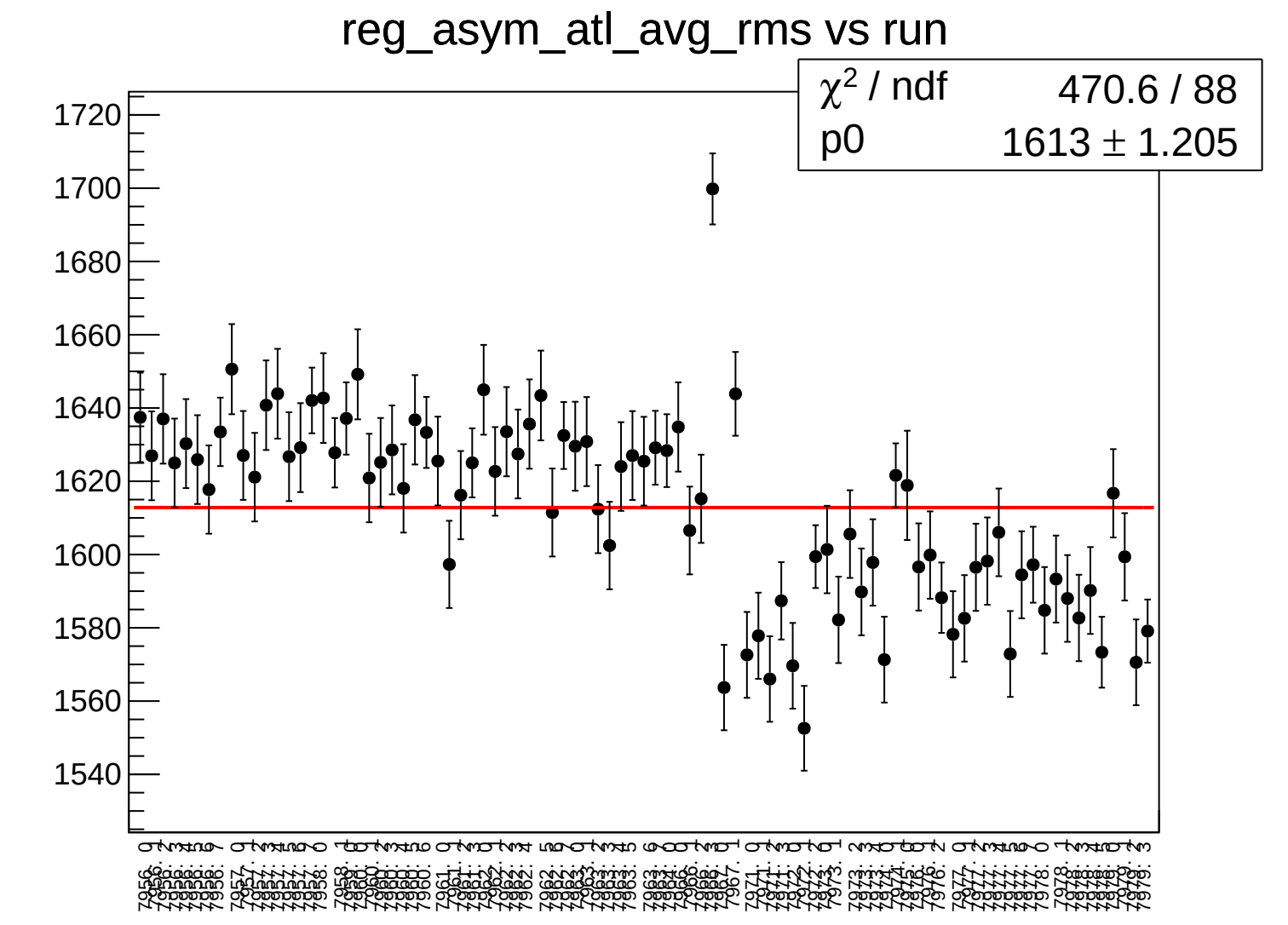

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.606e+05 / 88
p0 565.5 ± 0.443
1200
1100
1000
900
800
700
600
500
400

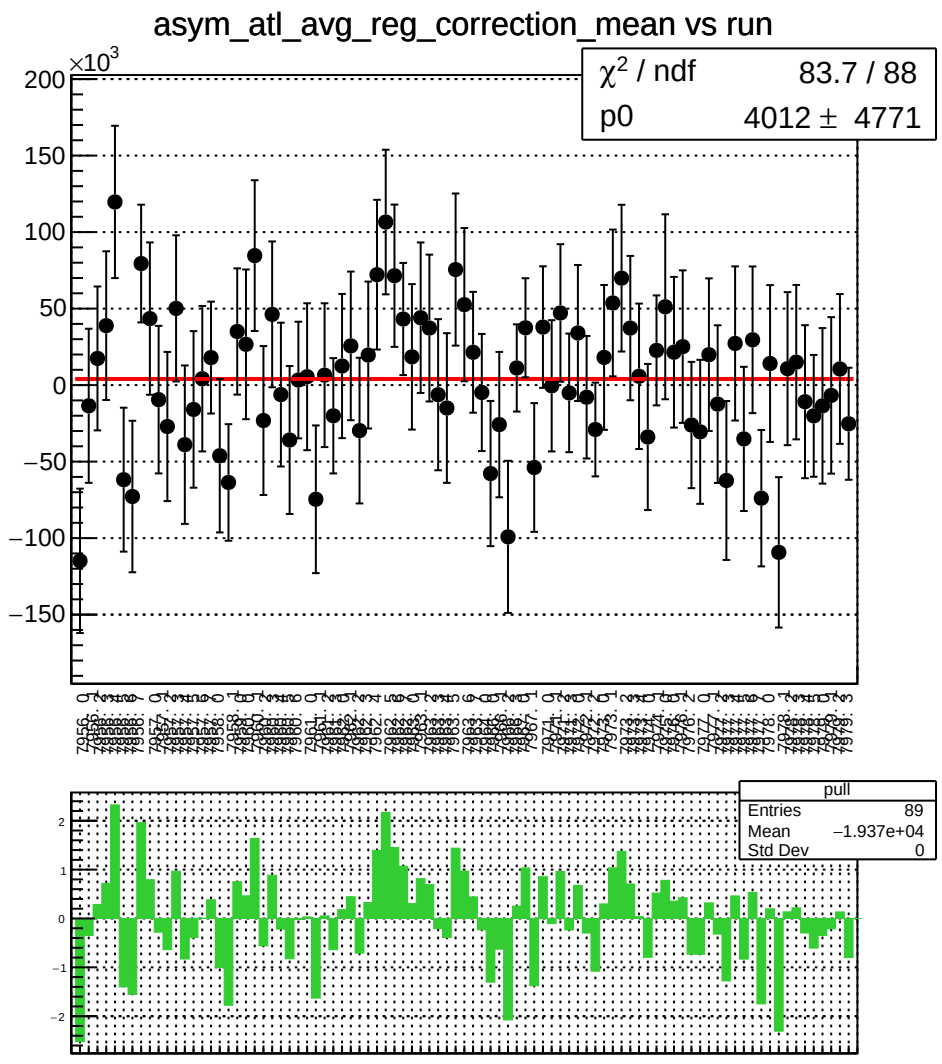

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 107.8 / 88
p0 4.835e−13 ± 1.01e−12
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 32.93
Std Dev 26.06
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean −0.08518
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

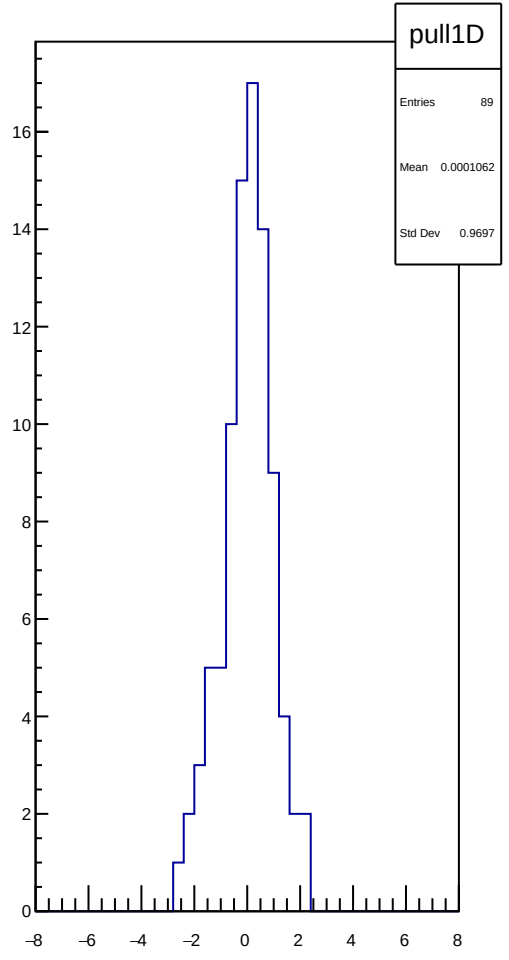

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
8
7
6
5
4
3
2
1
χ² / ndf 9.675e+05 / 88
p0 6.479e−10 ± 7.141e−13

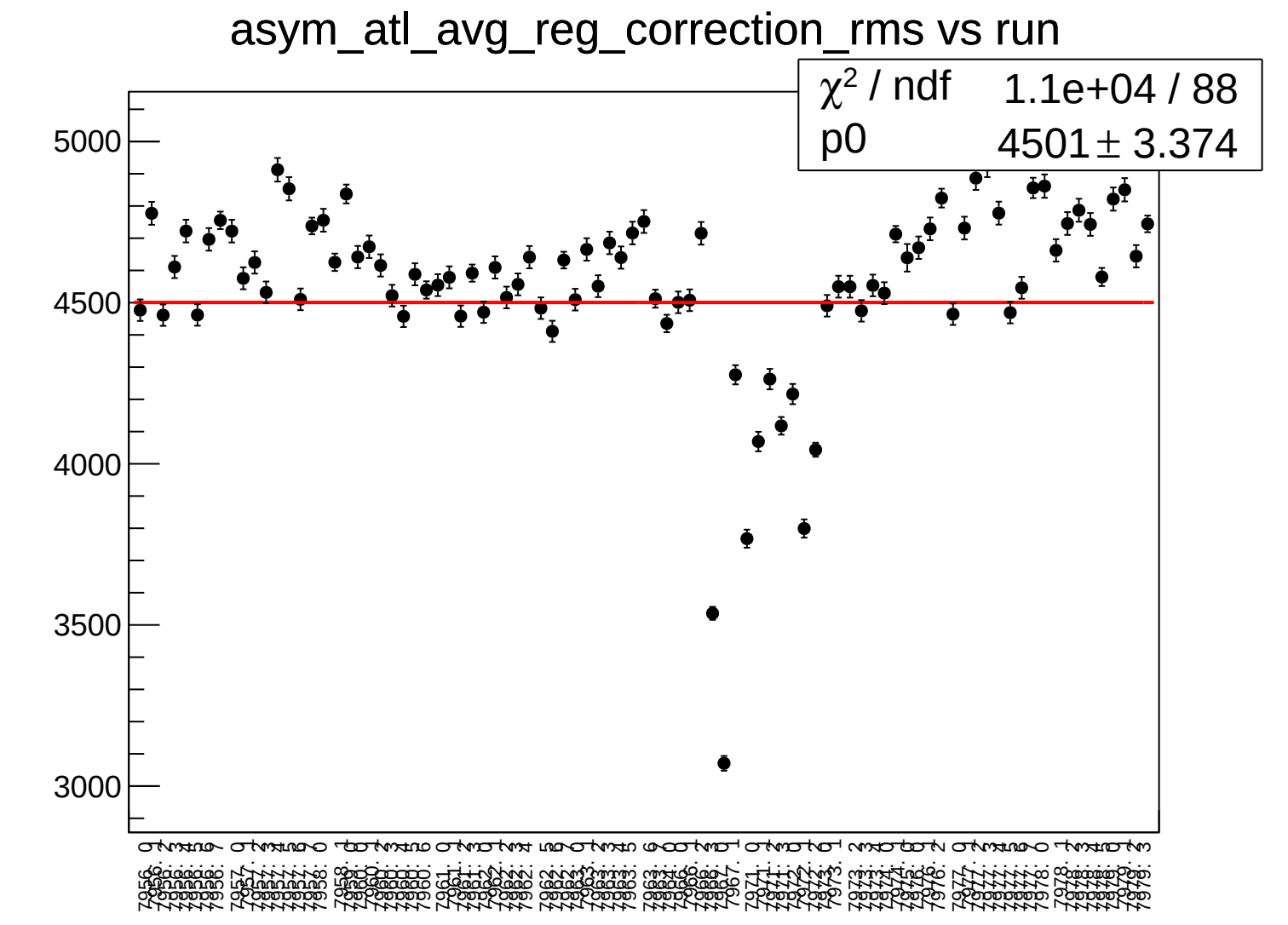

reg_asym_atl_avg_mean vs run
χ² / ndf 89.05 / 88
p0 −4640 ± 1705
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −24.82
Std Dev 0
2
1
0
−1
−2

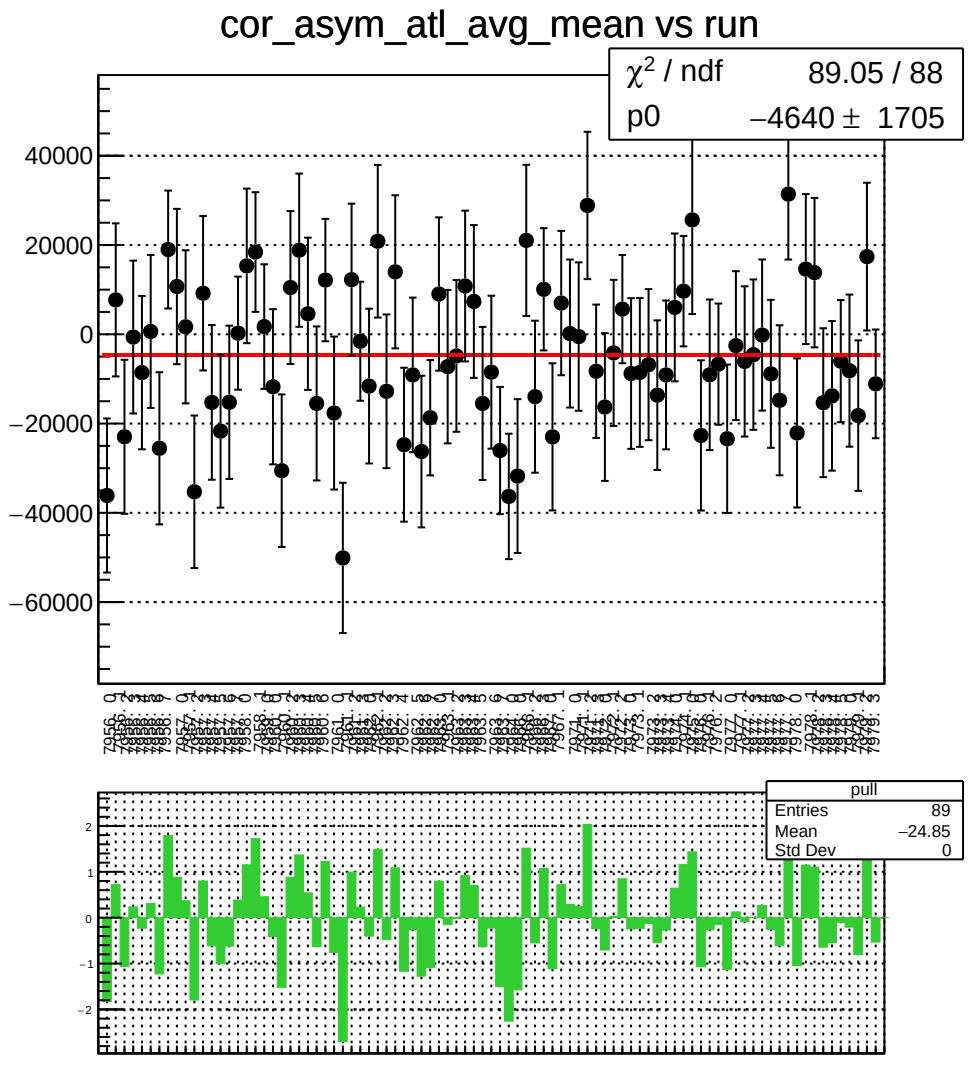

pull1D
Entries 89
Mean −0.0154
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

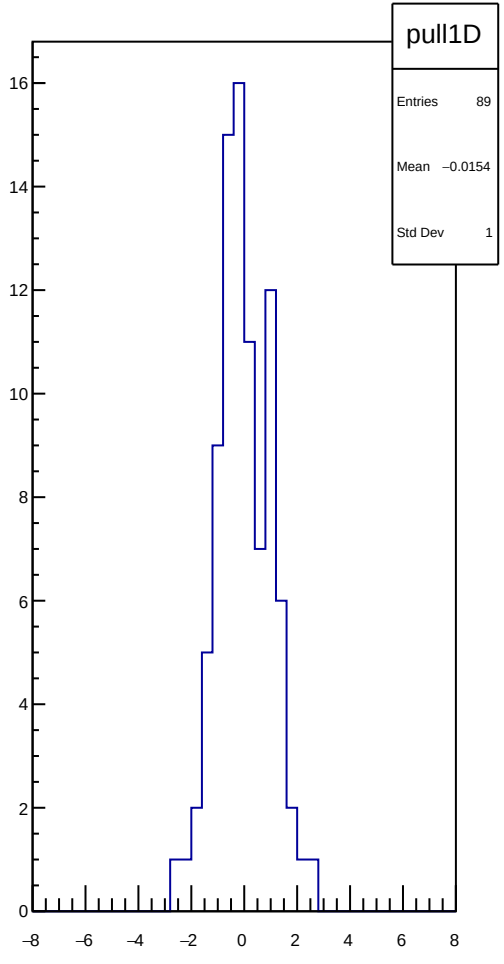

reg_asym_atl_avg_rms vs run
χ² / ndf 470.6 / 88
p0 1613 ± 1.205
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

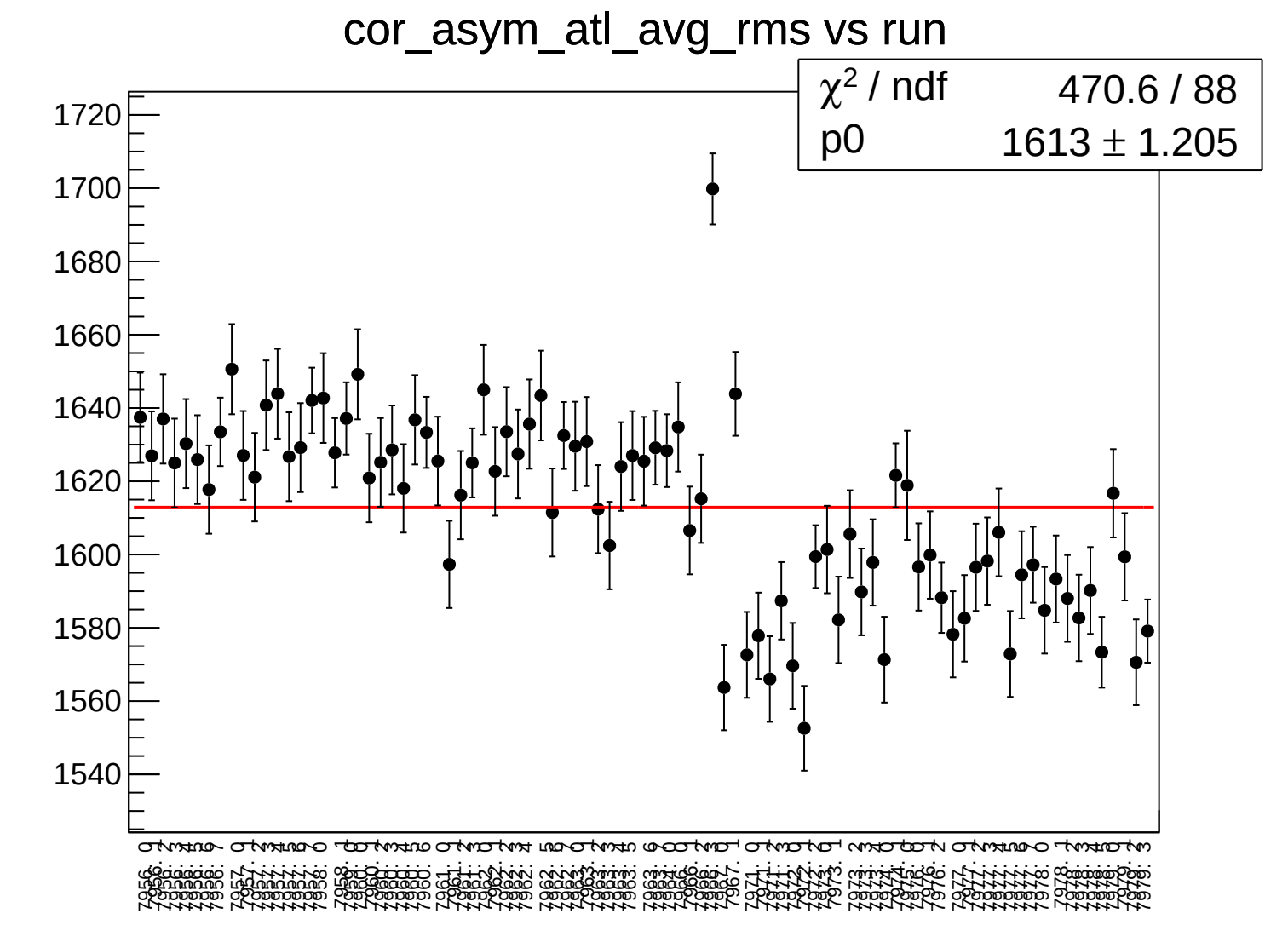

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 83.7 / 88
p0 4012 ± 4771
×10³
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −1.937e+04
Std Dev 0
2
1
0
−1
−2

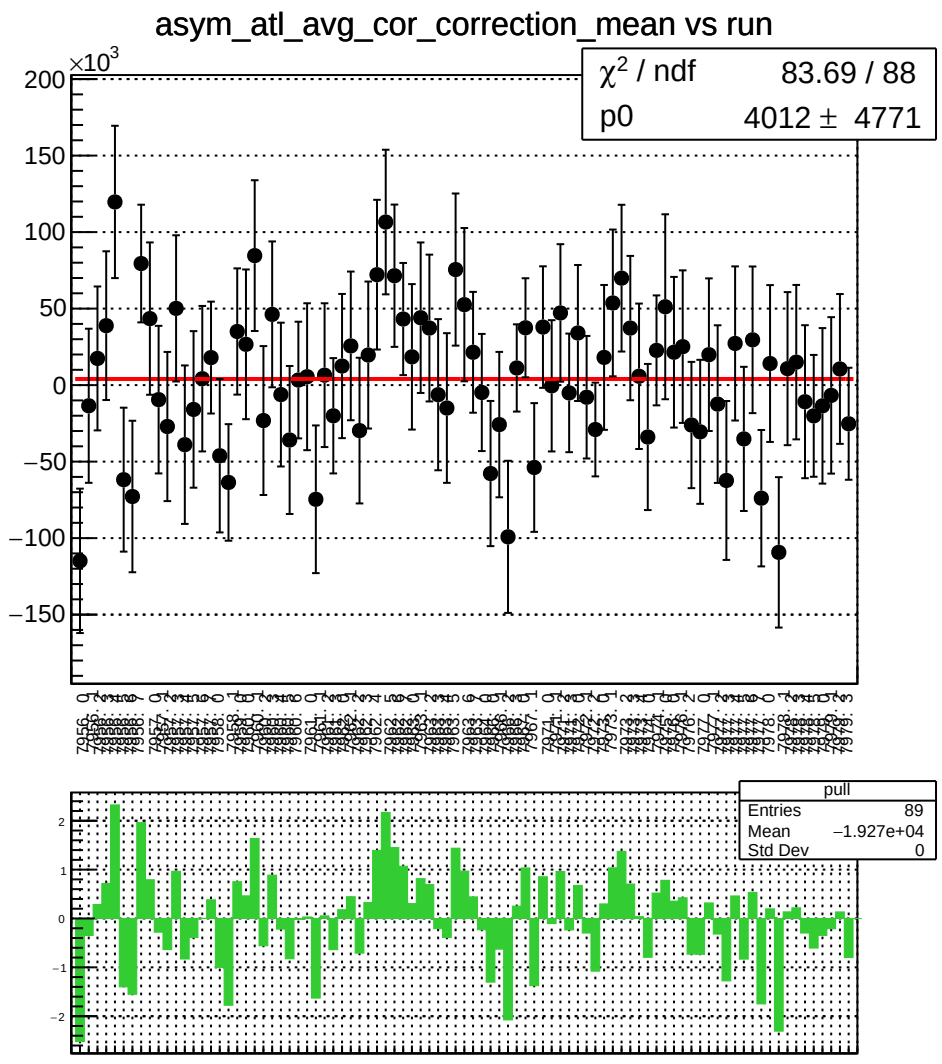

pull1D
Entries 89
Mean 0.0001062
Std Dev 0.9697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

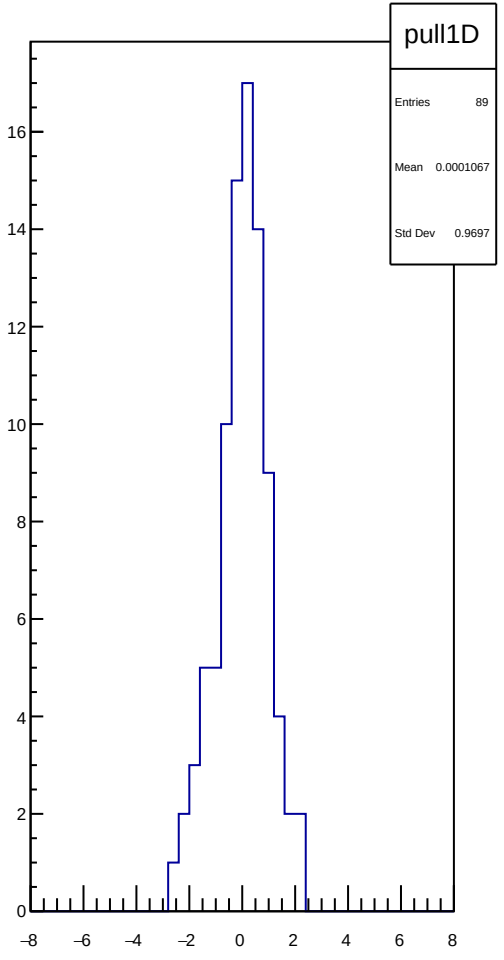

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.1e+04 / 88
p0 4501 ± 3.374
5000
4500
4000
3500
3000

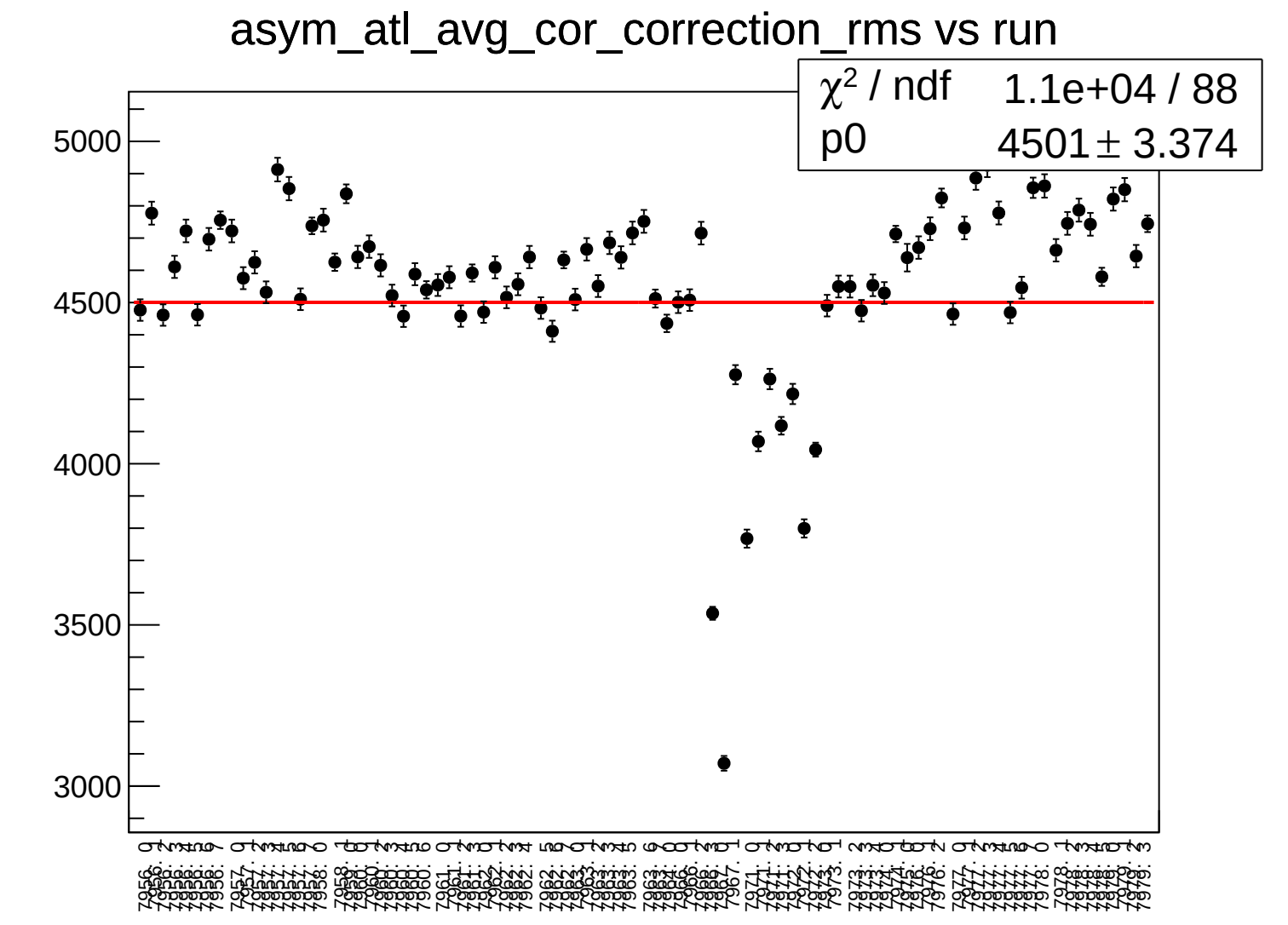

cor_asym_atl_avg_mean vs run
χ² / ndf 89.05 / 88
p0 −4640 ± 1705
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −24.85
Std Dev 0
2
1
0
−1
−2

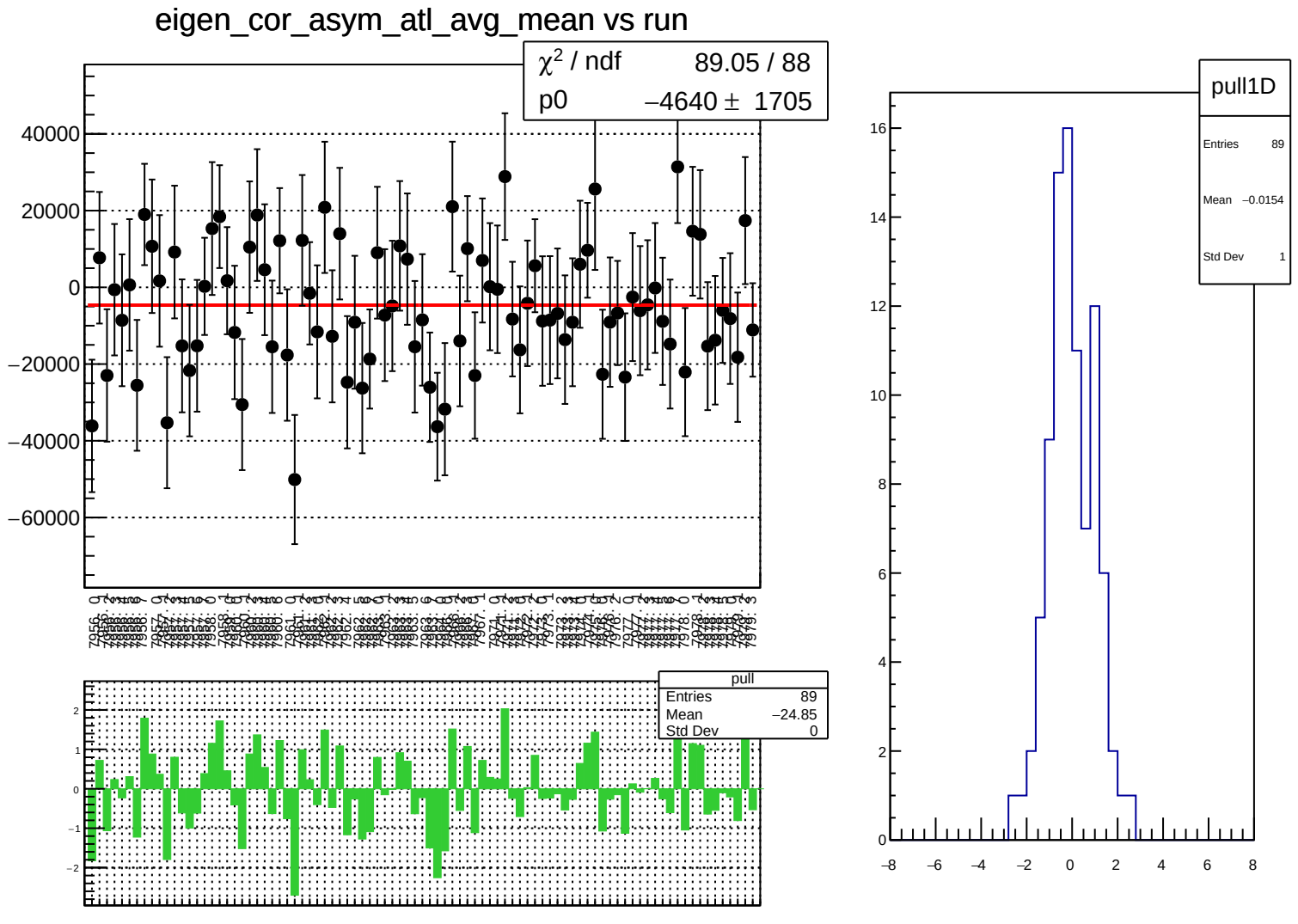

pull1D
Entries 89
Mean −0.0154
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

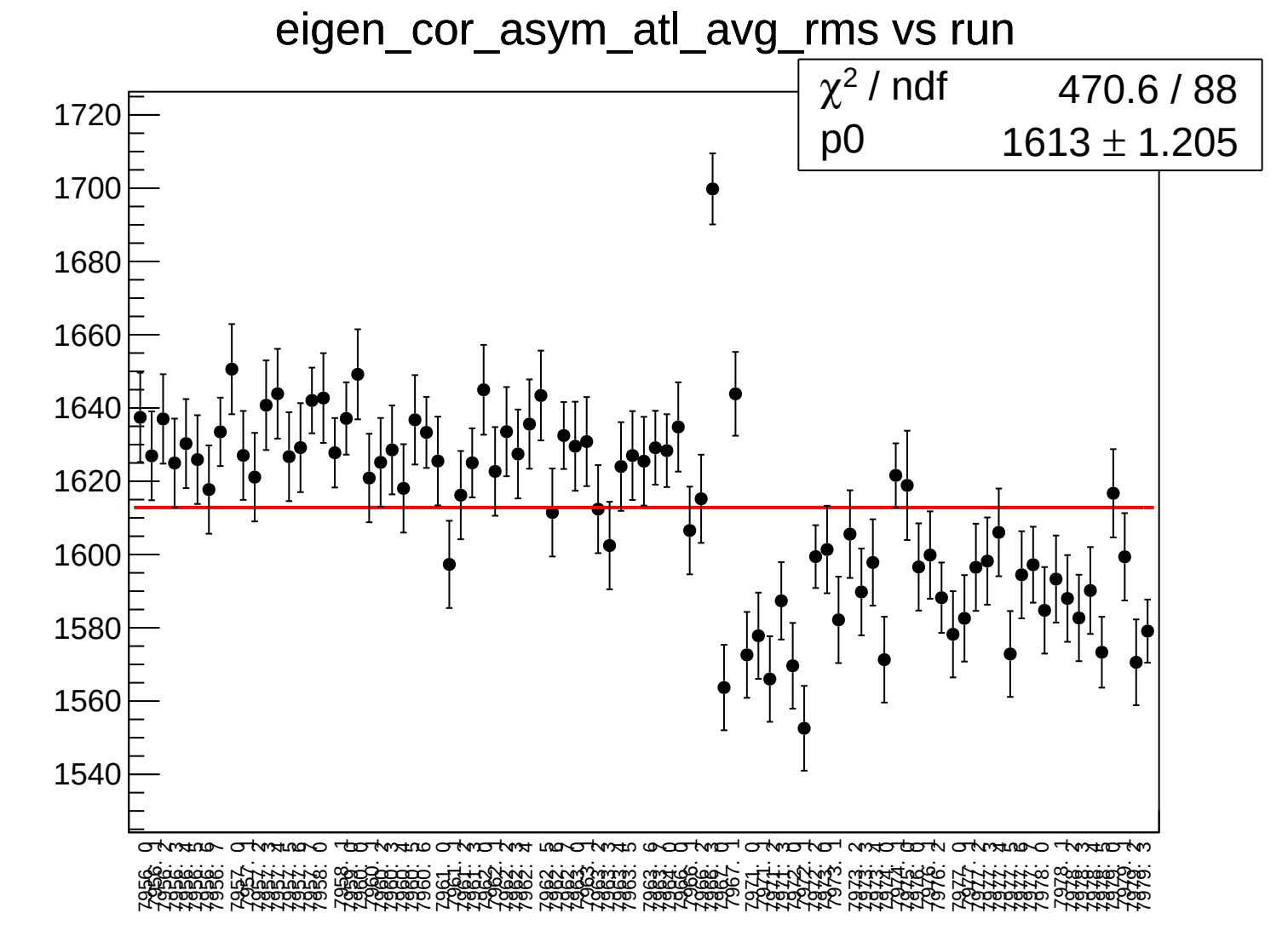

cor_asym_atl_avg_rms vs run
$\chi^2$ / ndf 470.6 / 88
p0 1613 ± 1.205
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

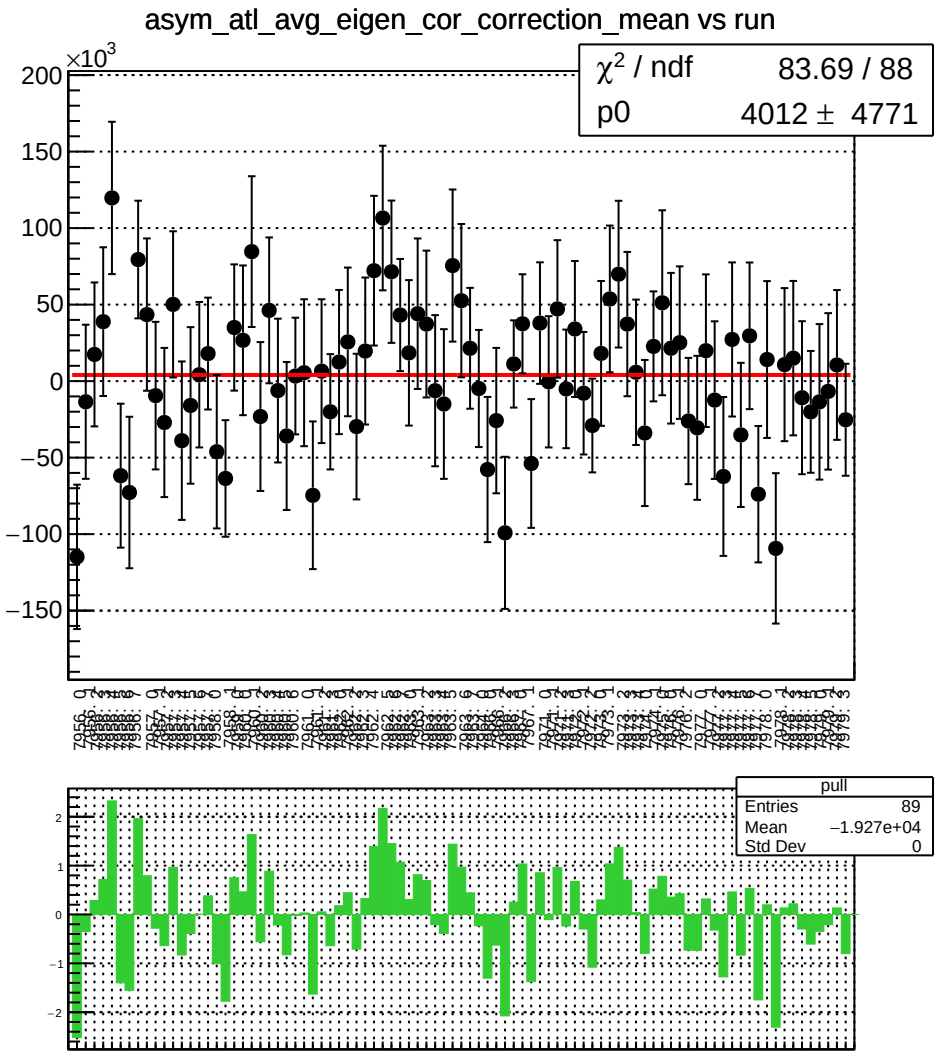

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 83.69 / 88
p0 4012 ± 4771
pull
Entries 89
Mean −1.927e+04
Std Dev 0

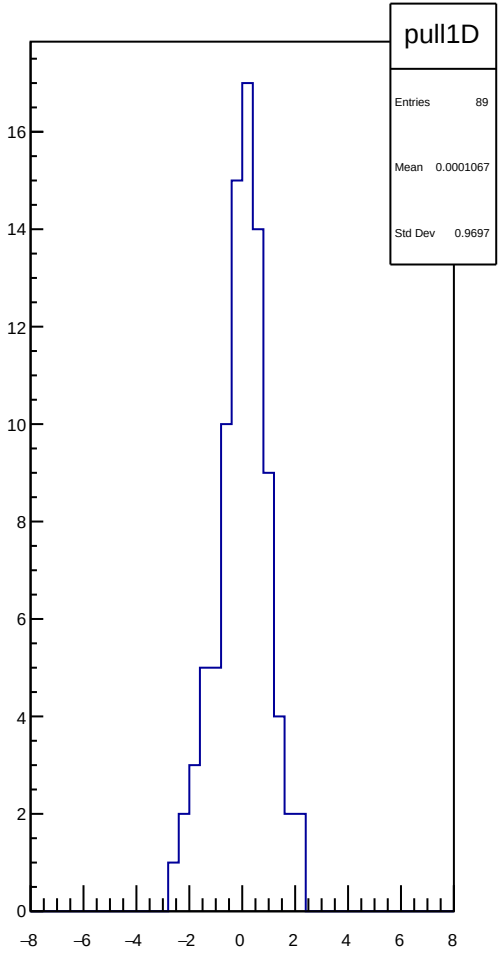

pull1D
Entries 89
Mean 0.0001067
Std Dev 0.9697

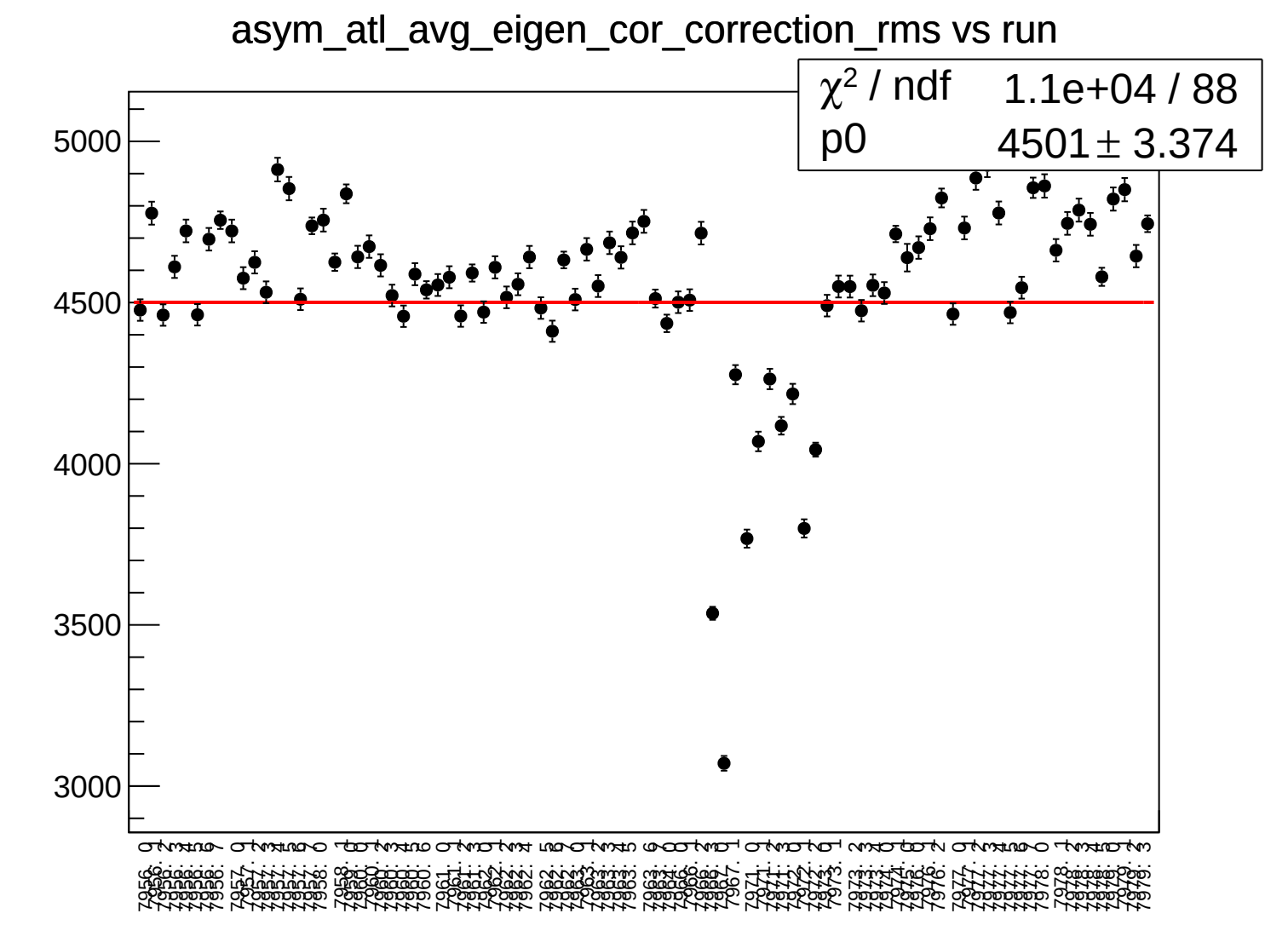

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.1e+04 / 88
p0 4501 ± 3.374
5000
4500
4000
3500
3000

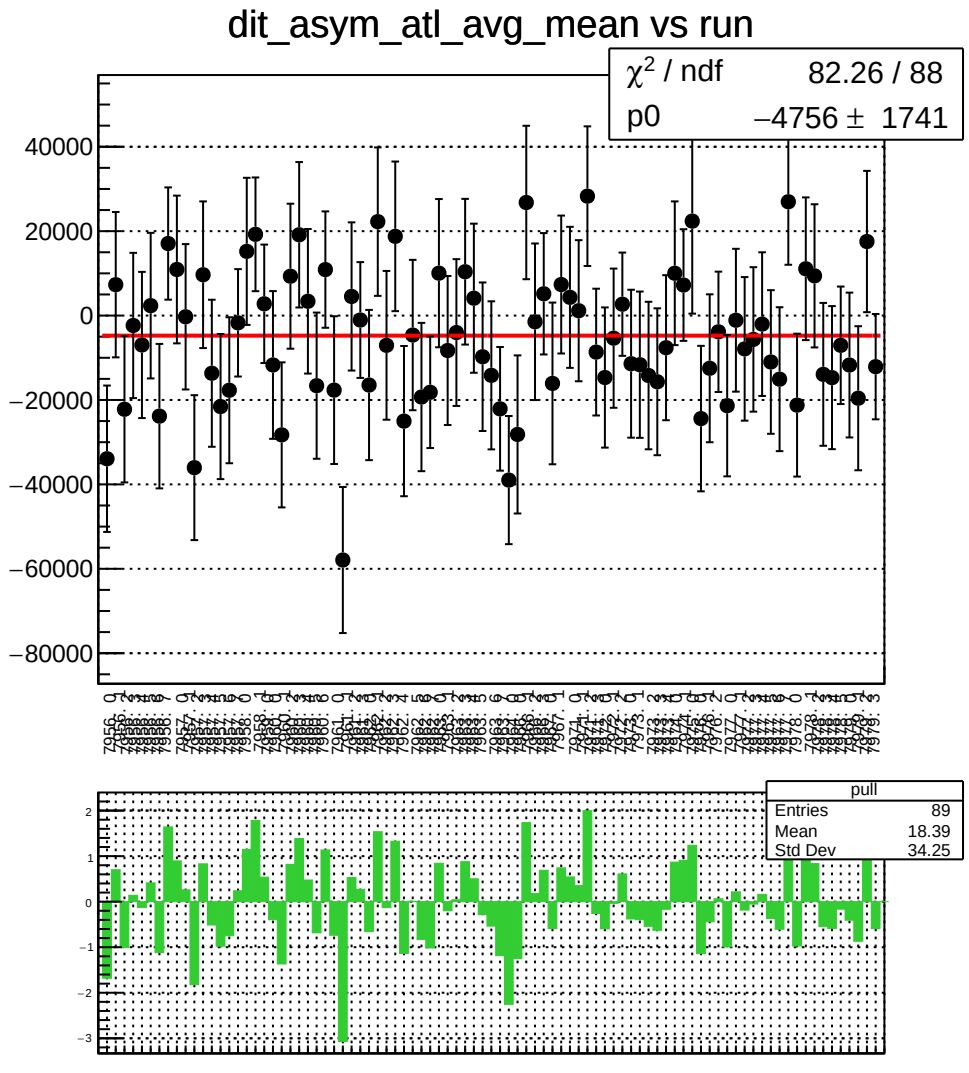

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 89.05 / 88
p0 −4640 ± 1705
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −24.85
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.0154
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

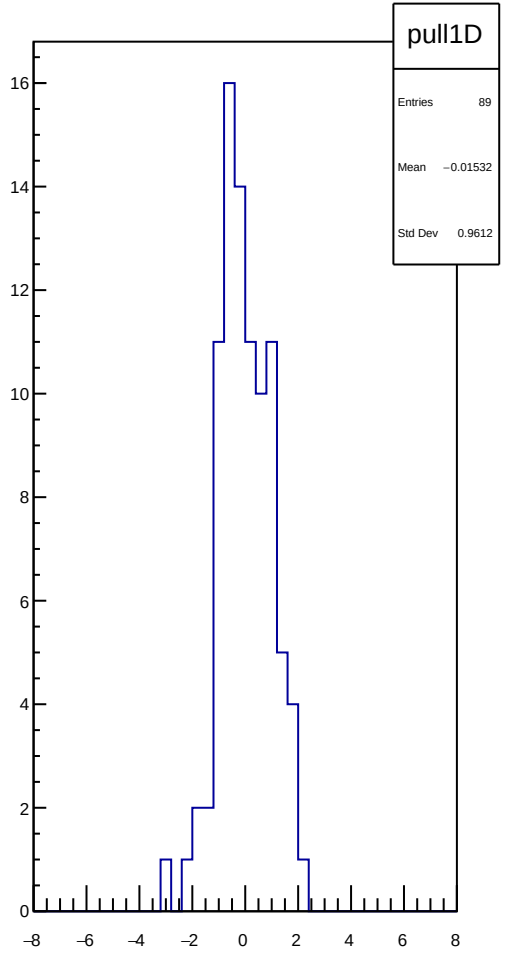

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 470.6 / 88
p0 1613 ± 1.205
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

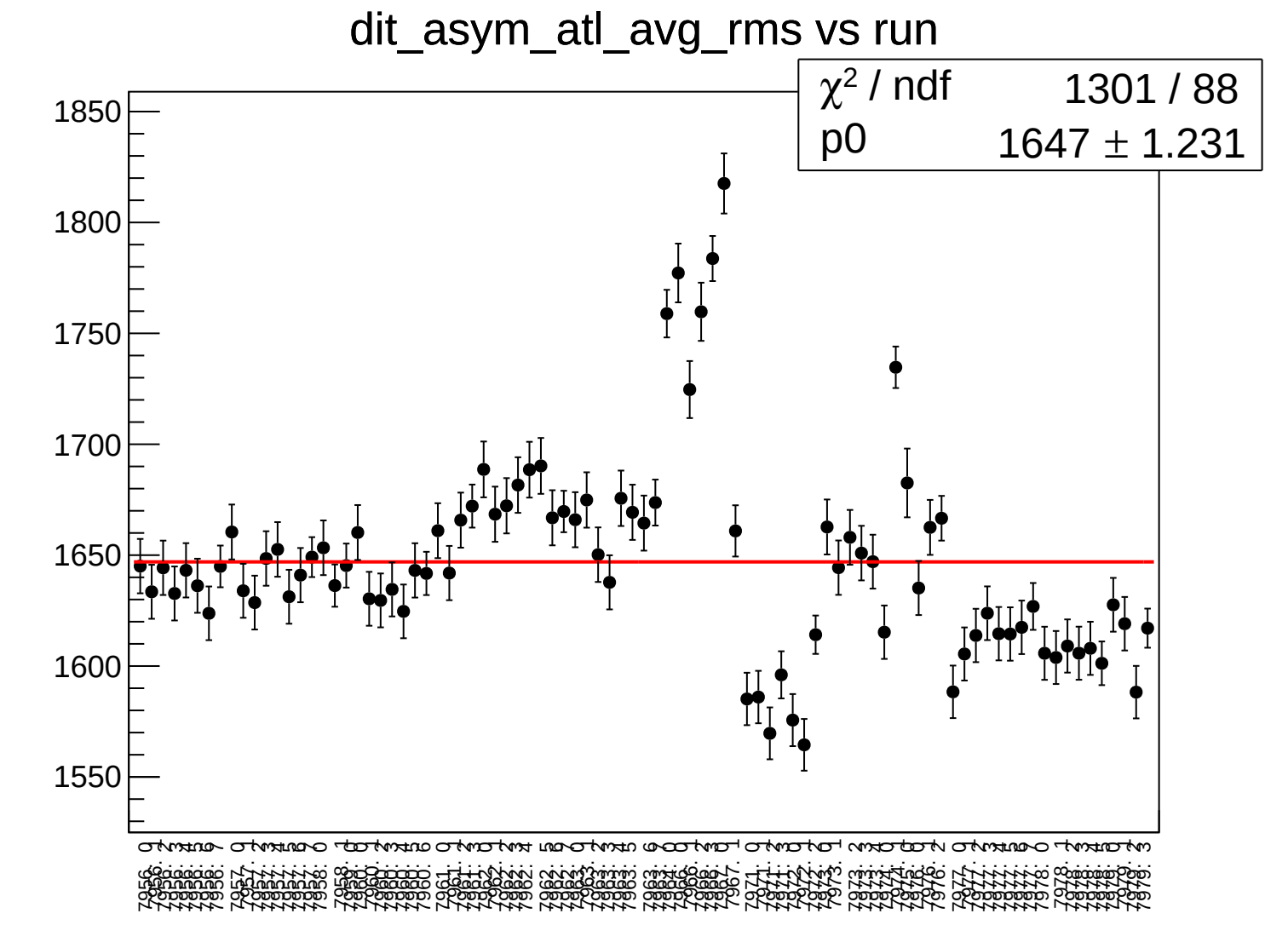

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.69 / 88
p0 4012 ± 4771
pull
Entries 89
Mean −1.927e+04
Std Dev 0

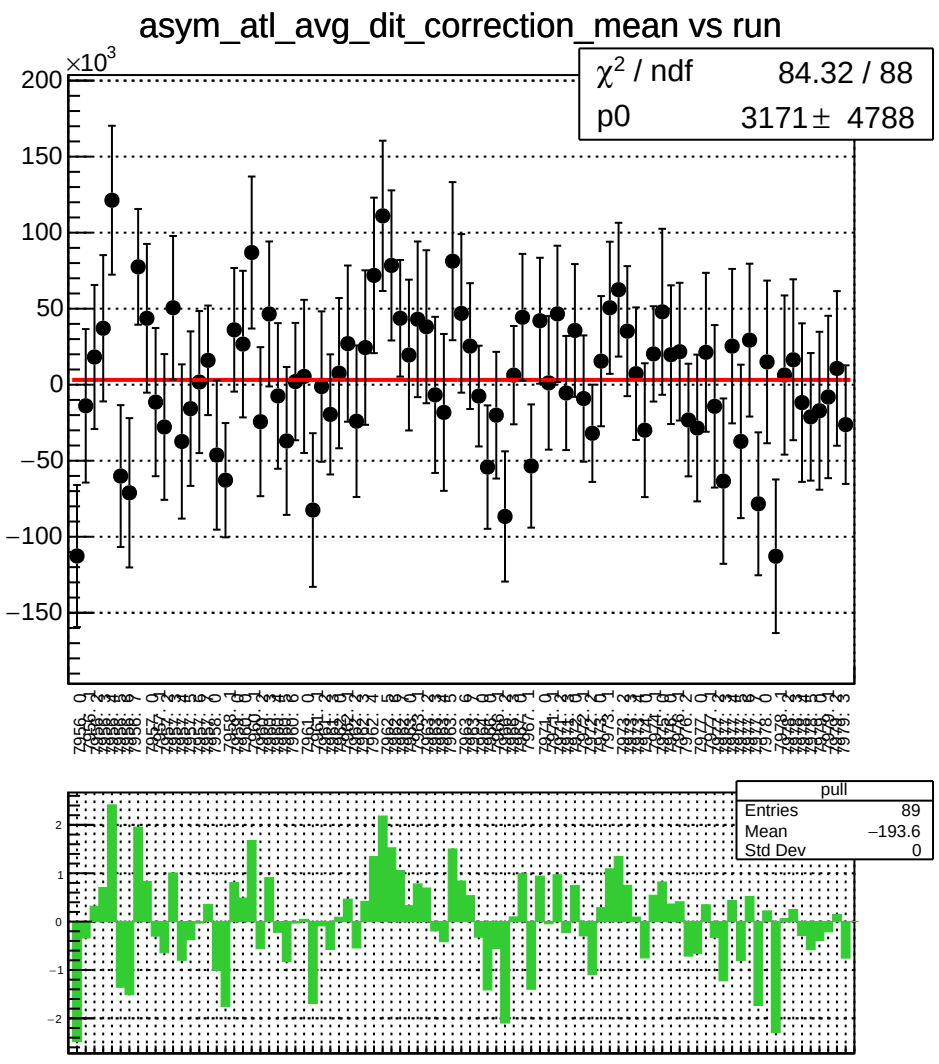

pull1D
Entries 89
Mean 0.0001067
Std Dev 0.9697

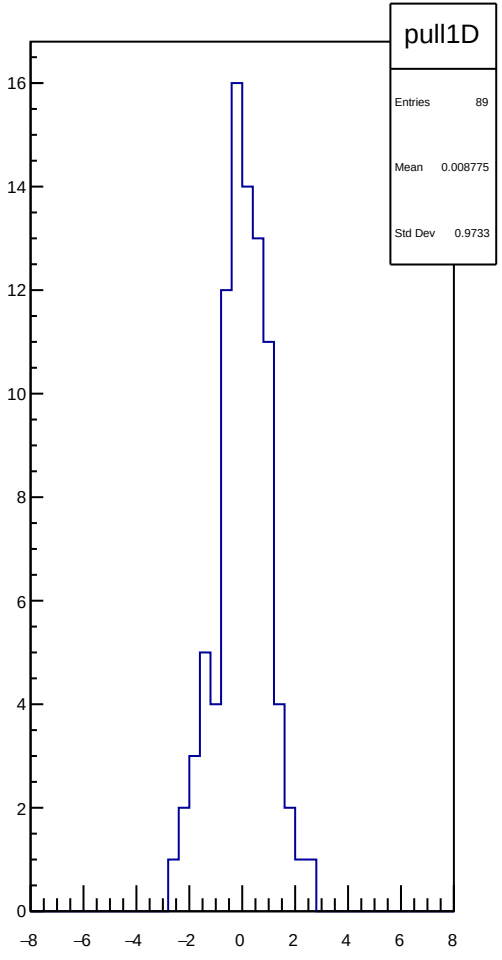

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.1e+04 / 88
p0 4501 ± 3.374
5000
4500
4000
3500
3000

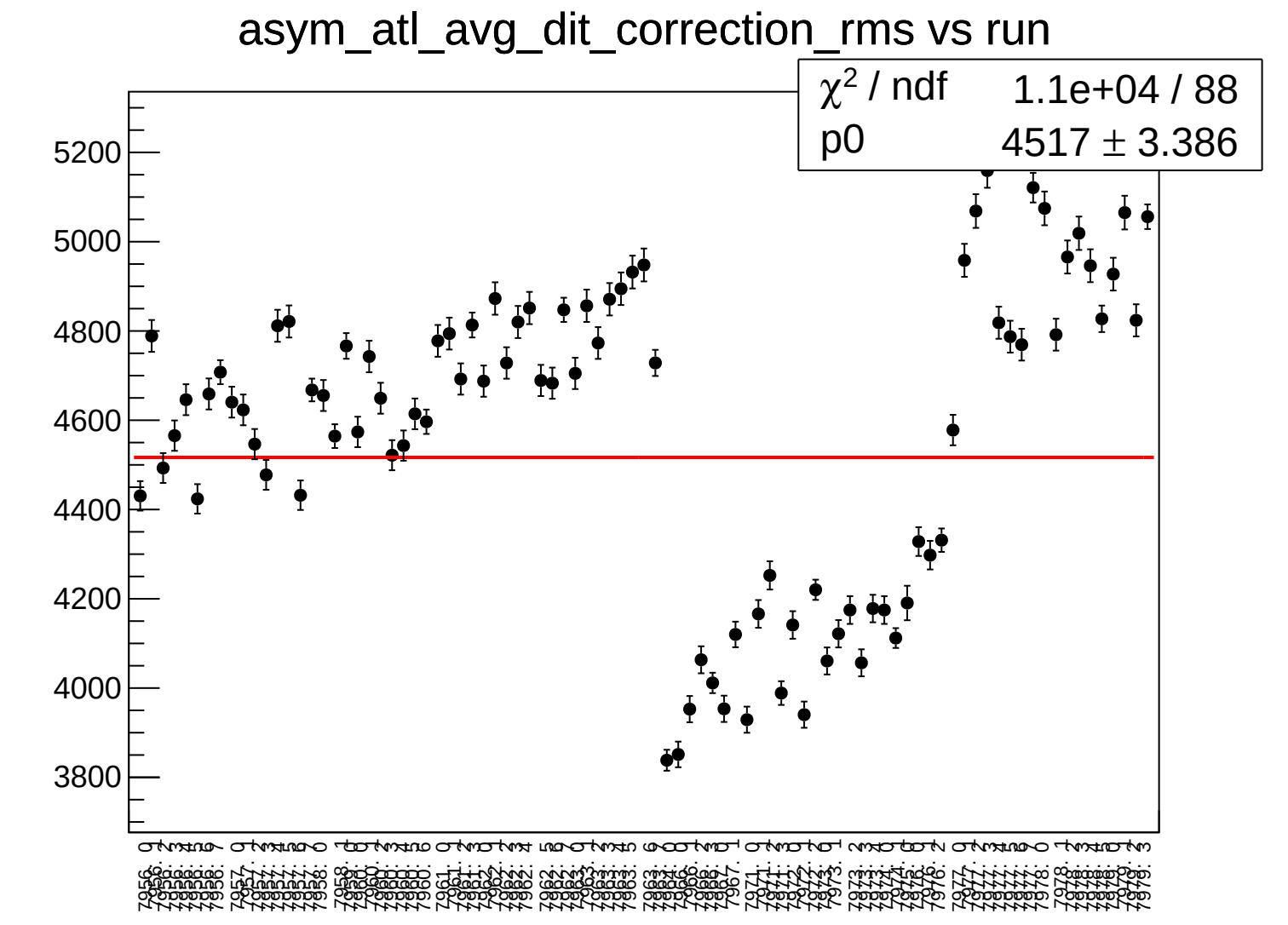

dit_asym_atl_avg_mean vs run
χ² / ndf 82.26 / 88
p0 −4756 ± 1741
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 18.39
Std Dev 34.25
2
1
0
−1
−2
−3

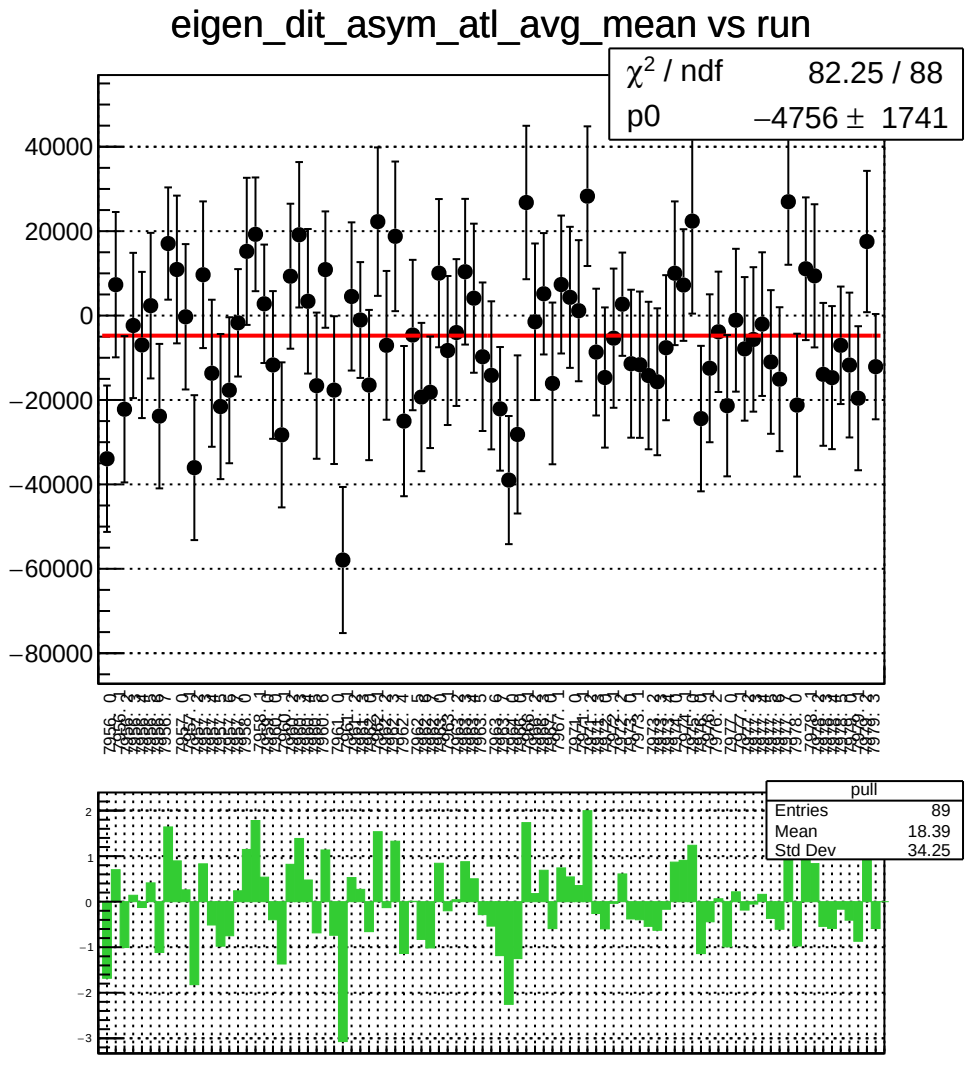

pull1D
Entries 89
Mean −0.01532
Std Dev 0.9612
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

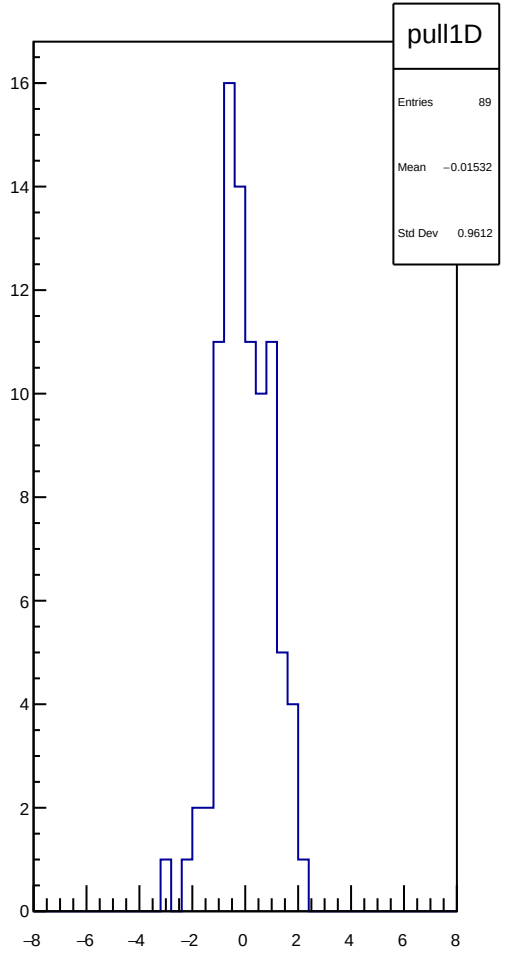

dit_asym_atl_avg_rms vs run
χ² / ndf 1301 / 88
p0 1647 ± 1.231
1850
1800
1750
1700
1650
1600
1550

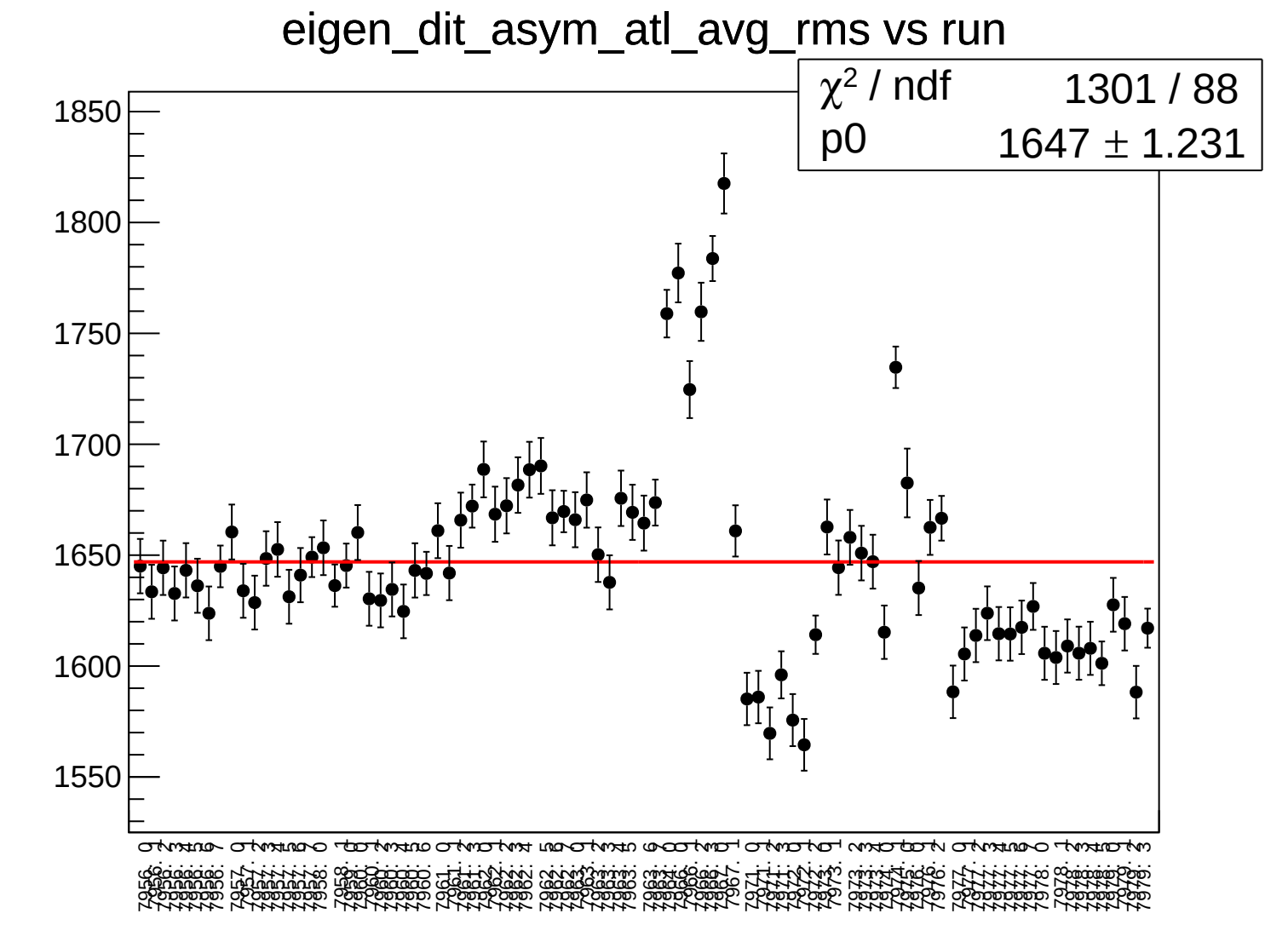

asym_atl_avg_dit_correction_mean vs run
$\chi^2$ / ndf 84.32 / 88
p0 3171 ± 4788
×10^3
pull
Entries 89
Mean −193.6
Std Dev 0

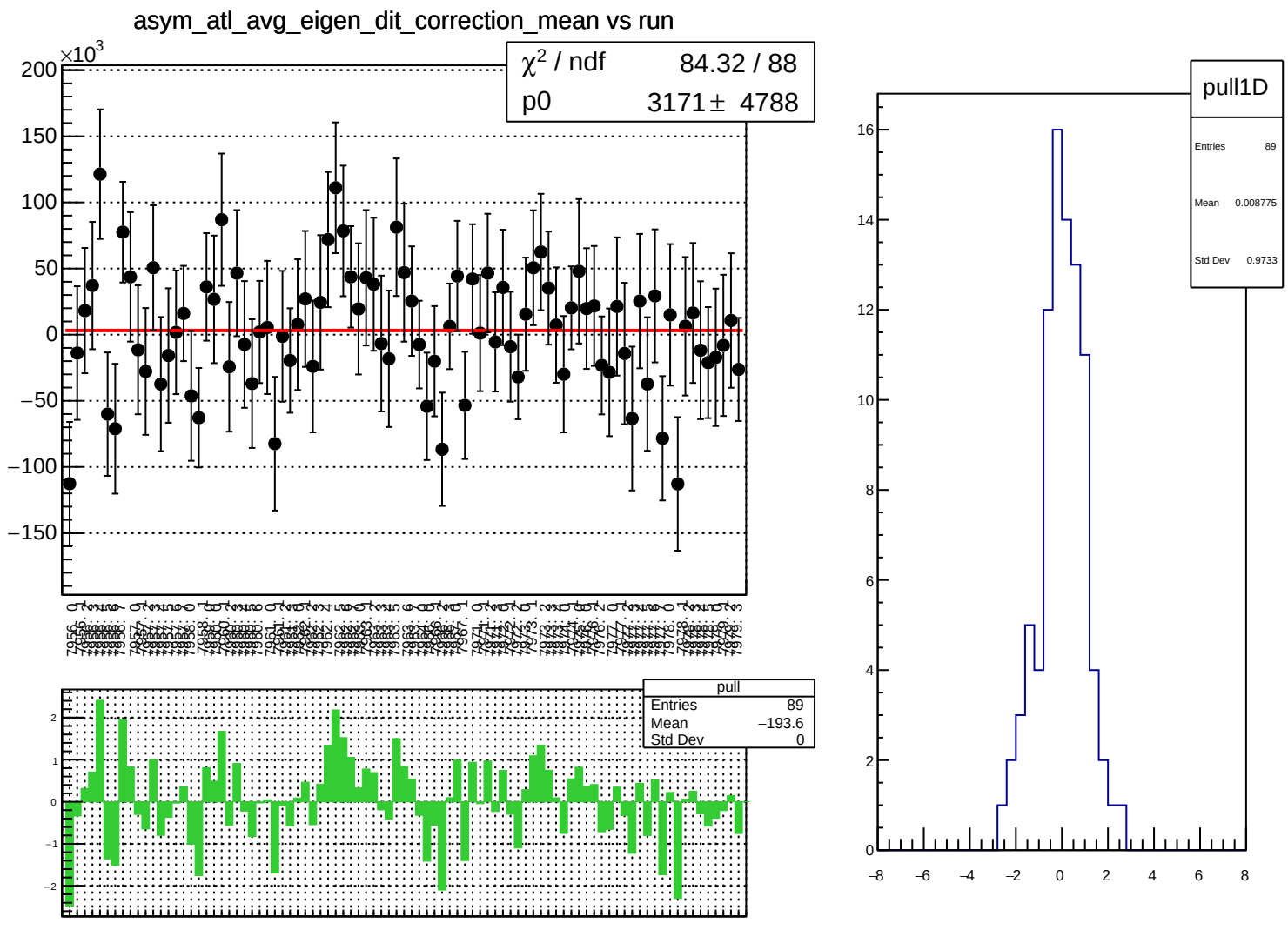

pull1D
Entries 89
Mean 0.008775
Std Dev 0.9733

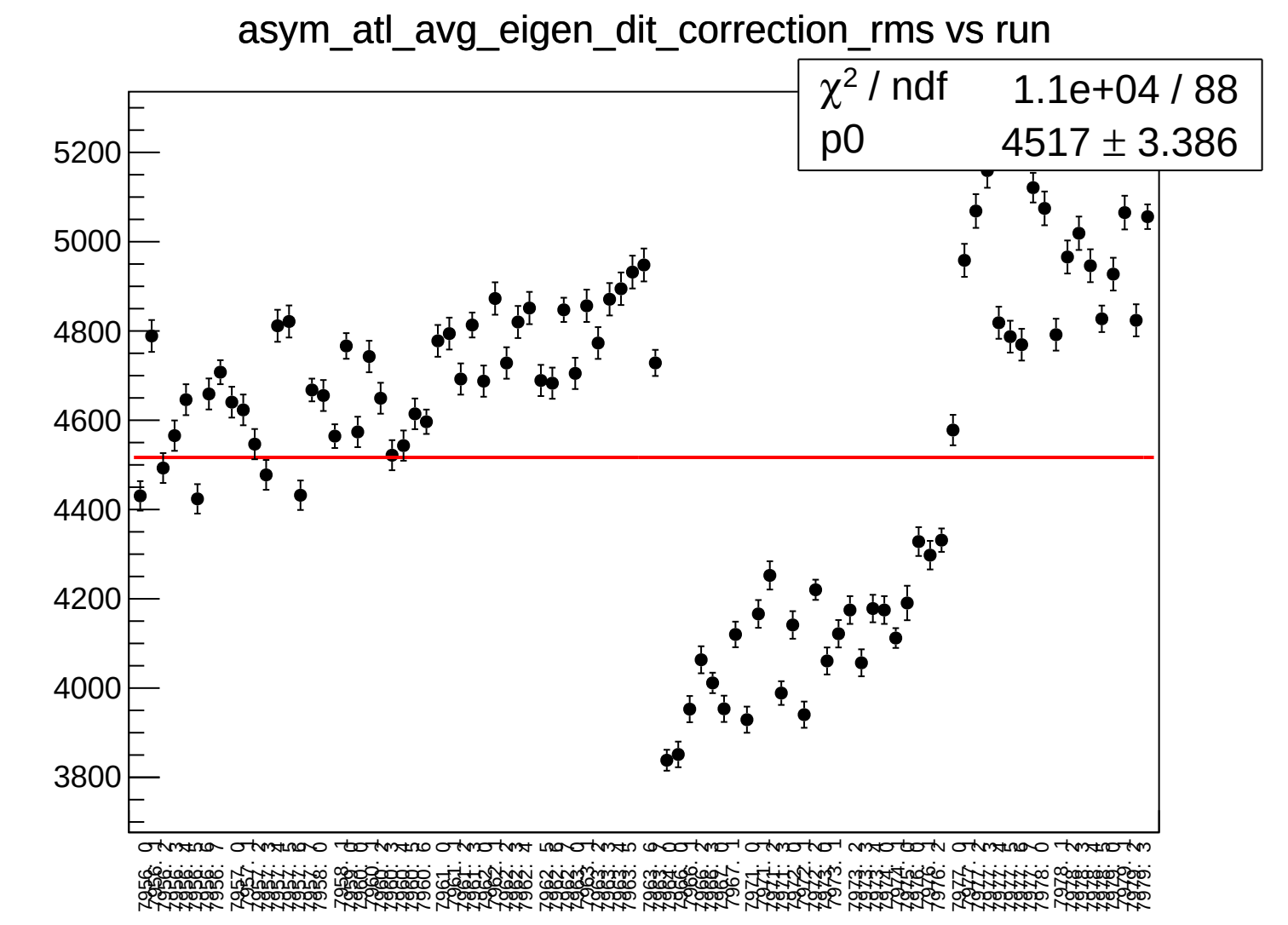

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1.1e+04 / 88
p0 4517 ± 3.386
5200
5000
4800
4600
4400
4200
4000
3800

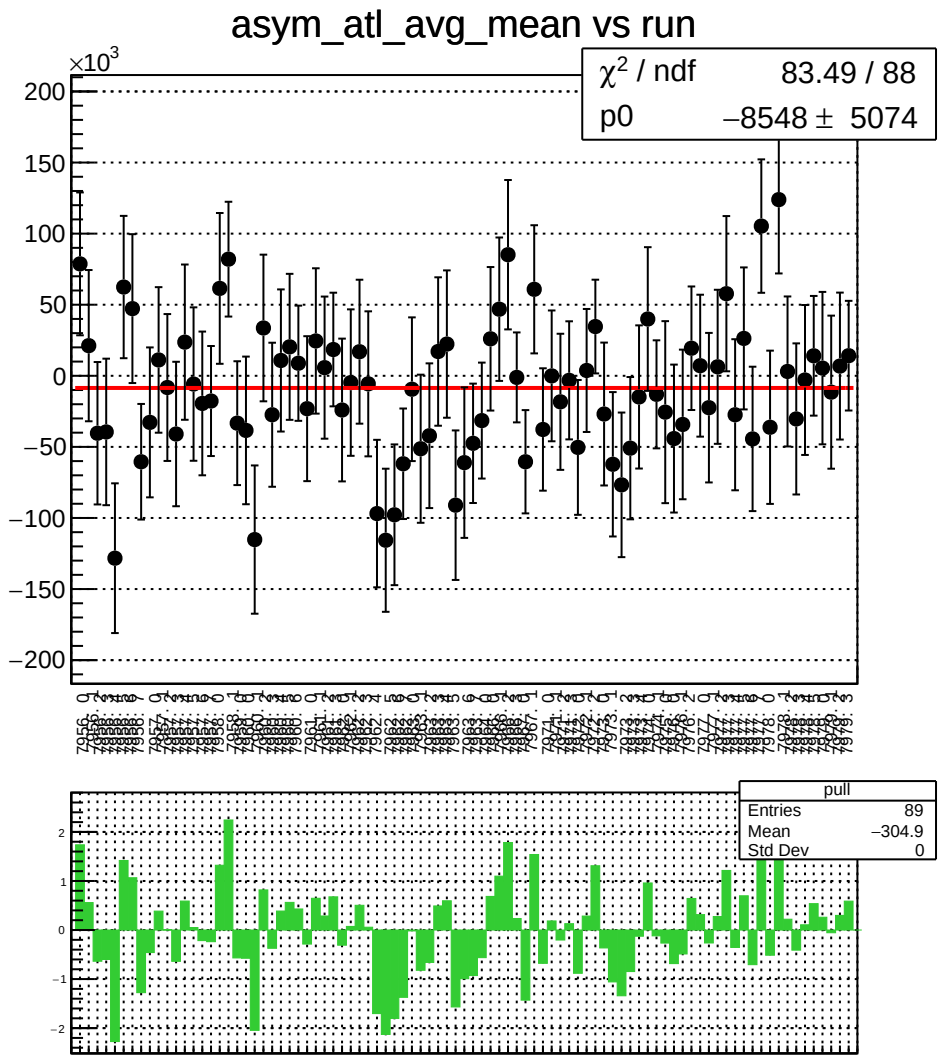

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 82.25 / 88
p0 −4756 ± 1741
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 18.39
Std Dev 34.25
2
1
0
−1
−2
−3

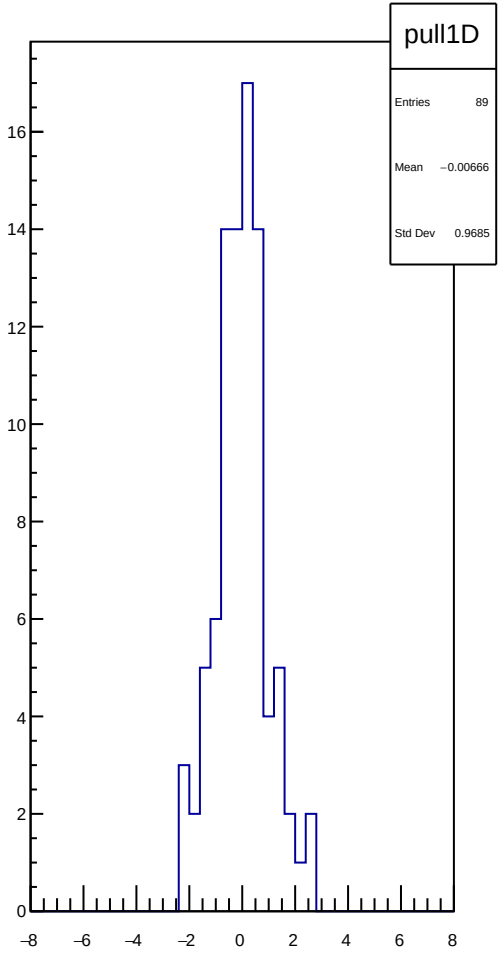

pull1D
Entries 89
Mean −0.01532
Std Dev 0.9612
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

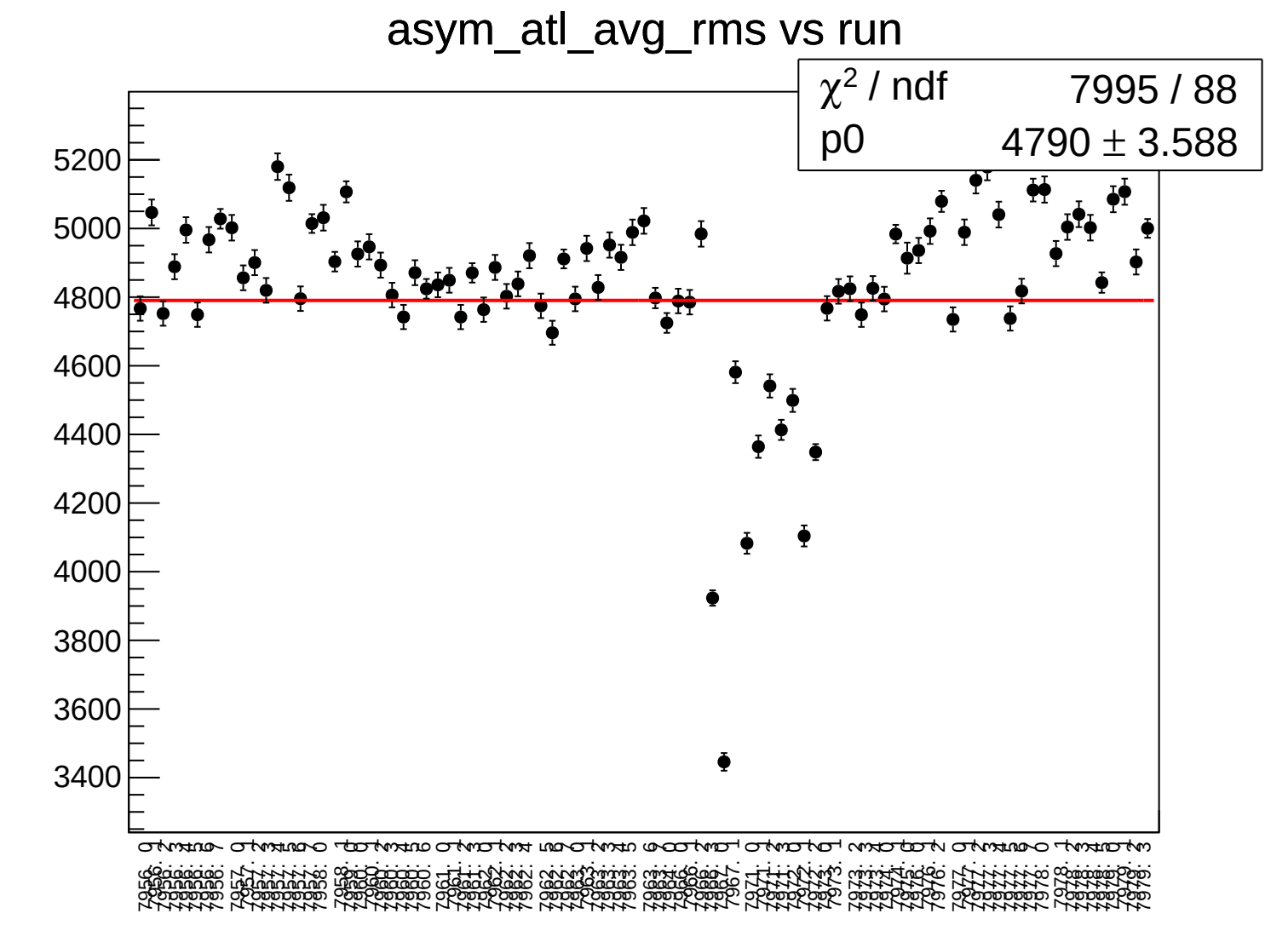

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 1301 / 88
p0 1647 ± 1.231
1850
1800
1750
1700
1650
1600
1550

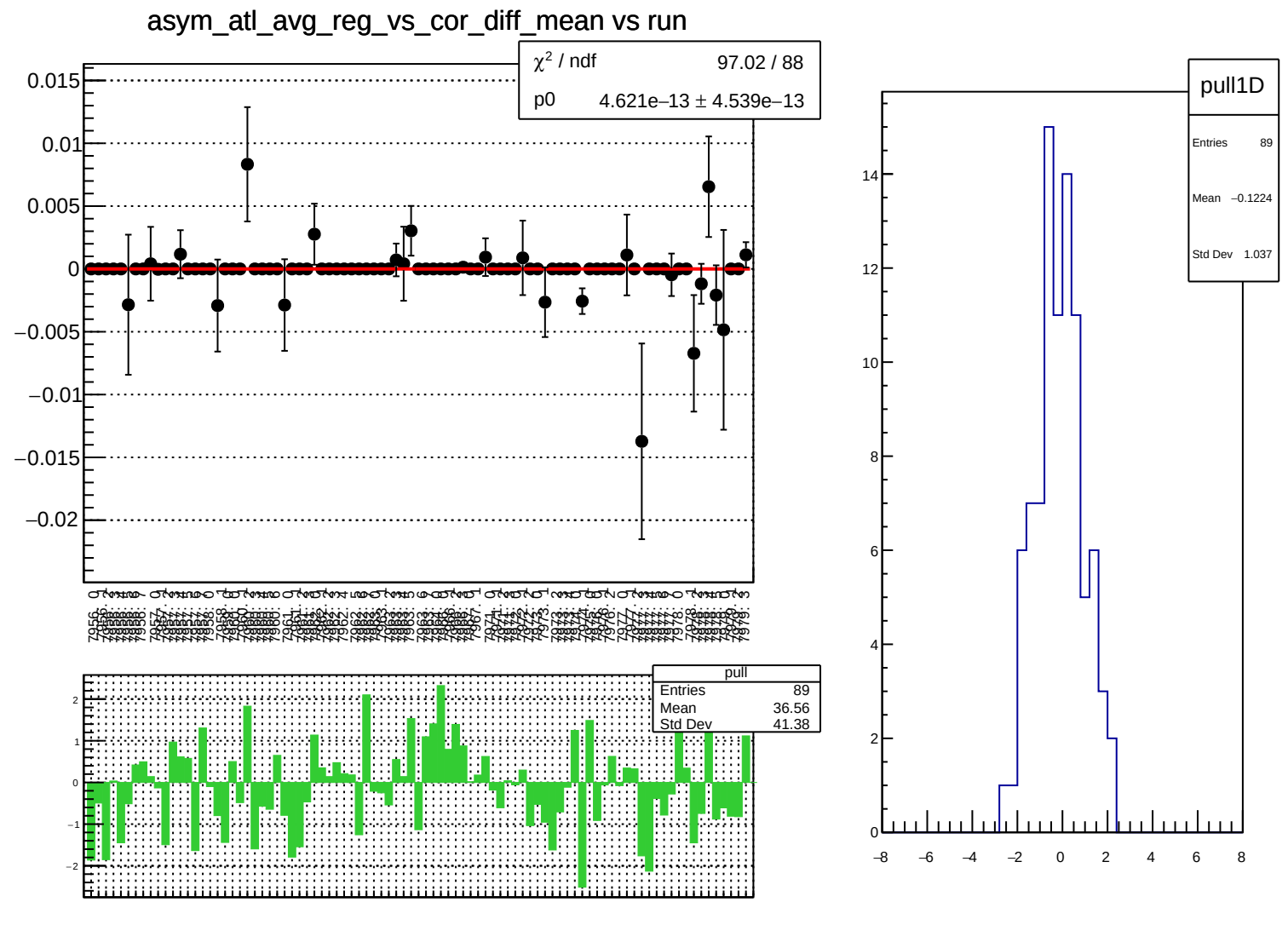

asym_atl_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.32 / 88
p0 3171 ± 4788
×10³
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −193.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.008775
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

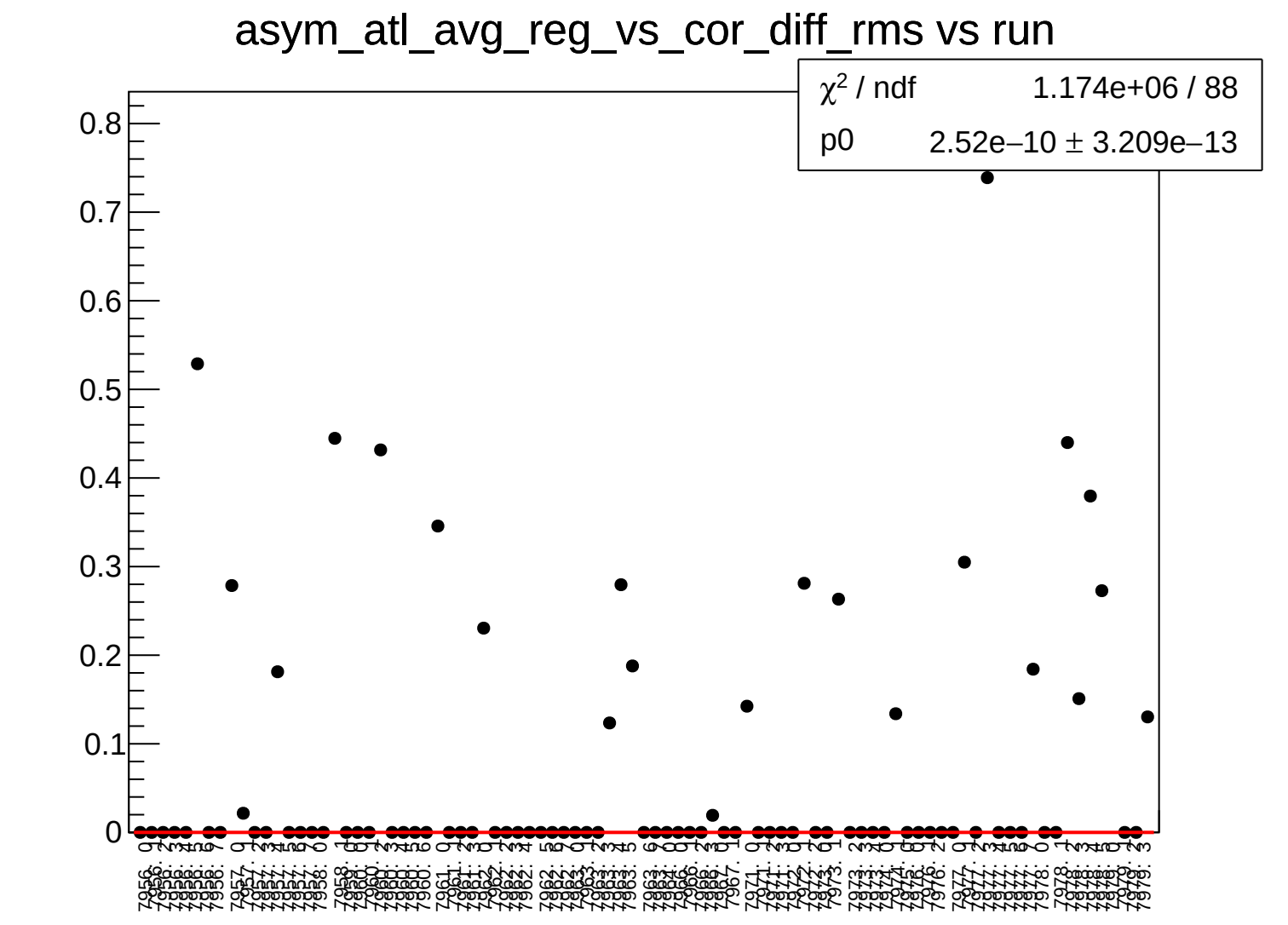

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.1e+04 / 88
p0 4517 ± 3.386
5200
5000
4800
4600
4400
4200
4000
3800

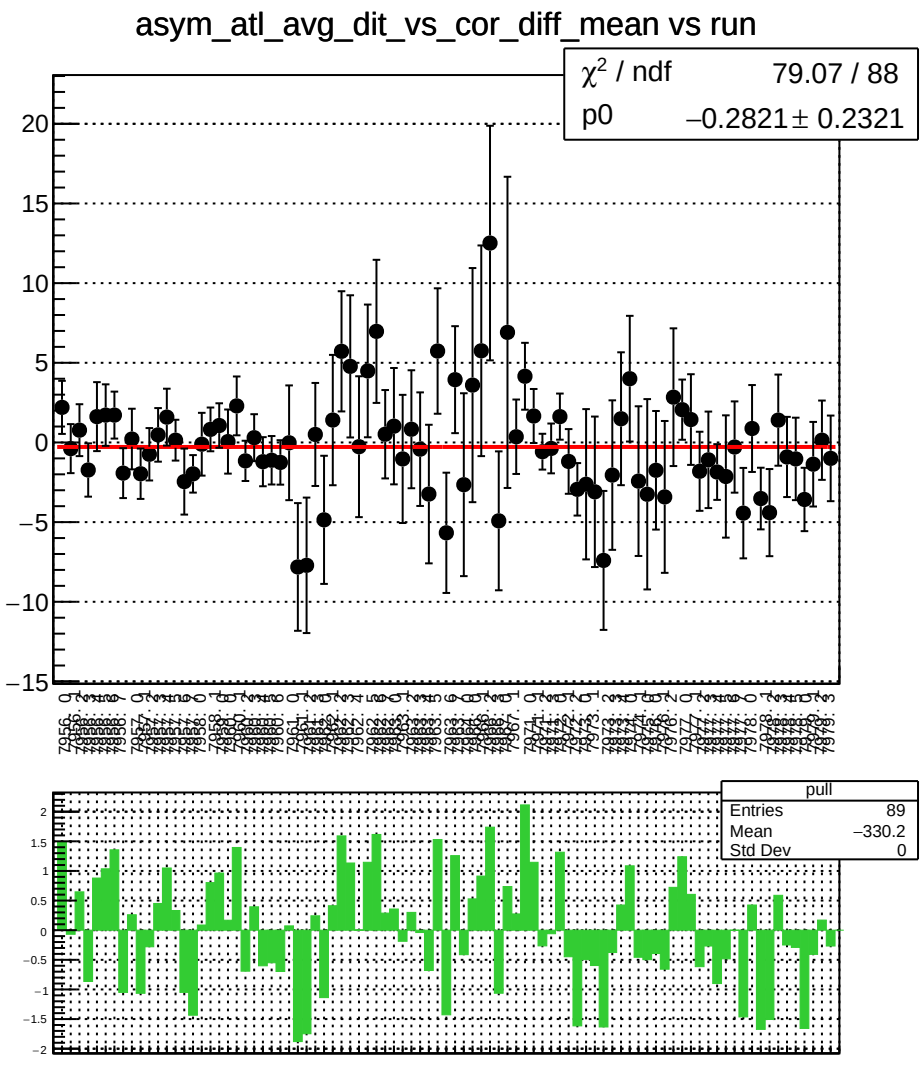

asym_atl_avg_mean vs run
×10^3
χ² / ndf 83.49 / 88
p0 −8548 ± 5074
pull
Entries 89
Mean −304.9
Std Dev 0

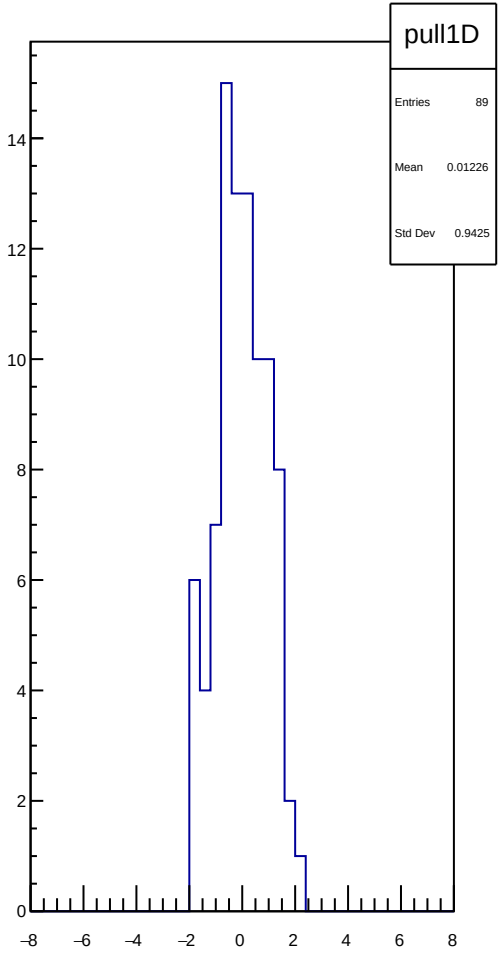

pull1D
Entries 89
Mean −0.00666
Std Dev 0.9685

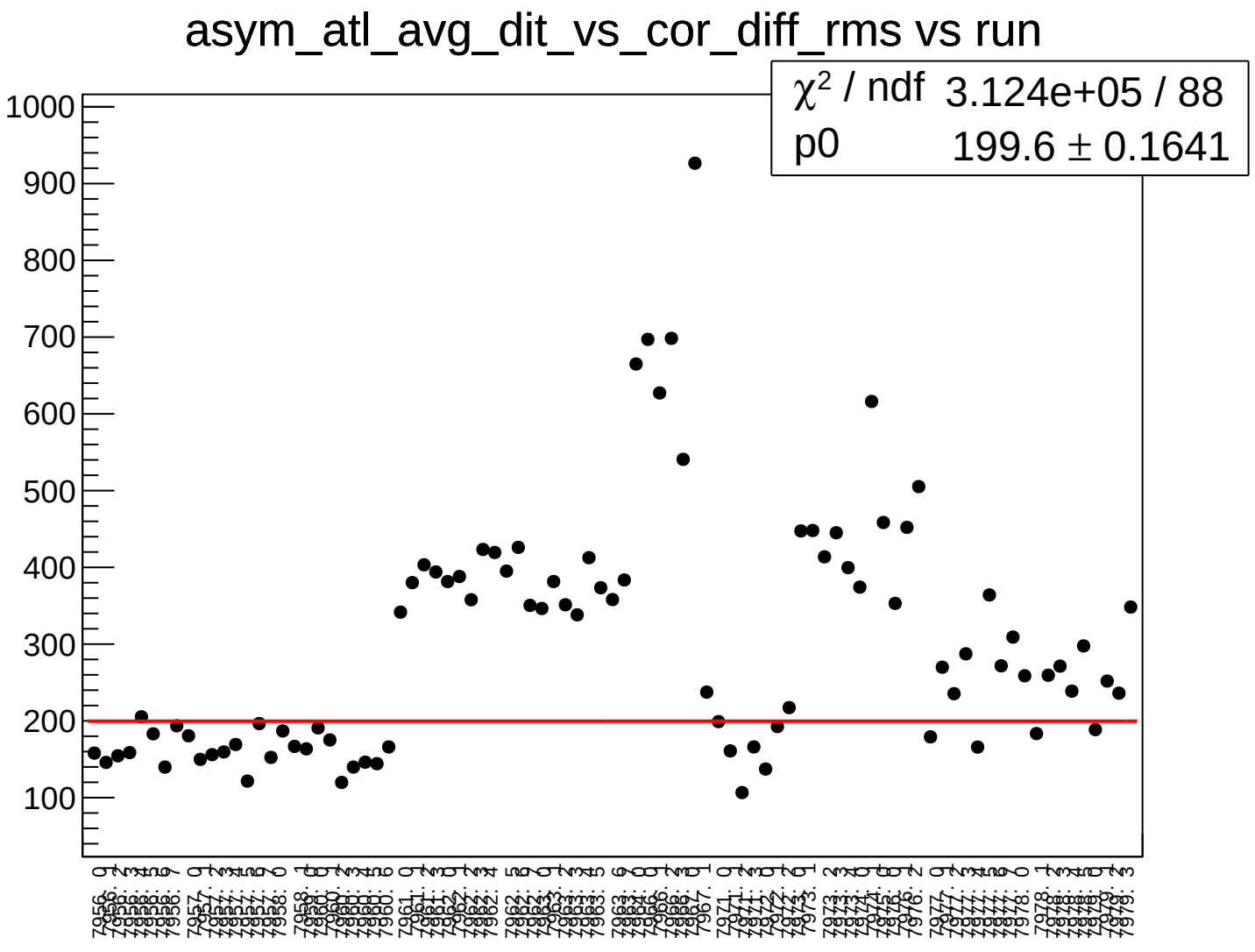

asym_atl_avg_rms vs run
$\chi^2$ / ndf 7995 / 88
p0 4790 ± 3.588
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

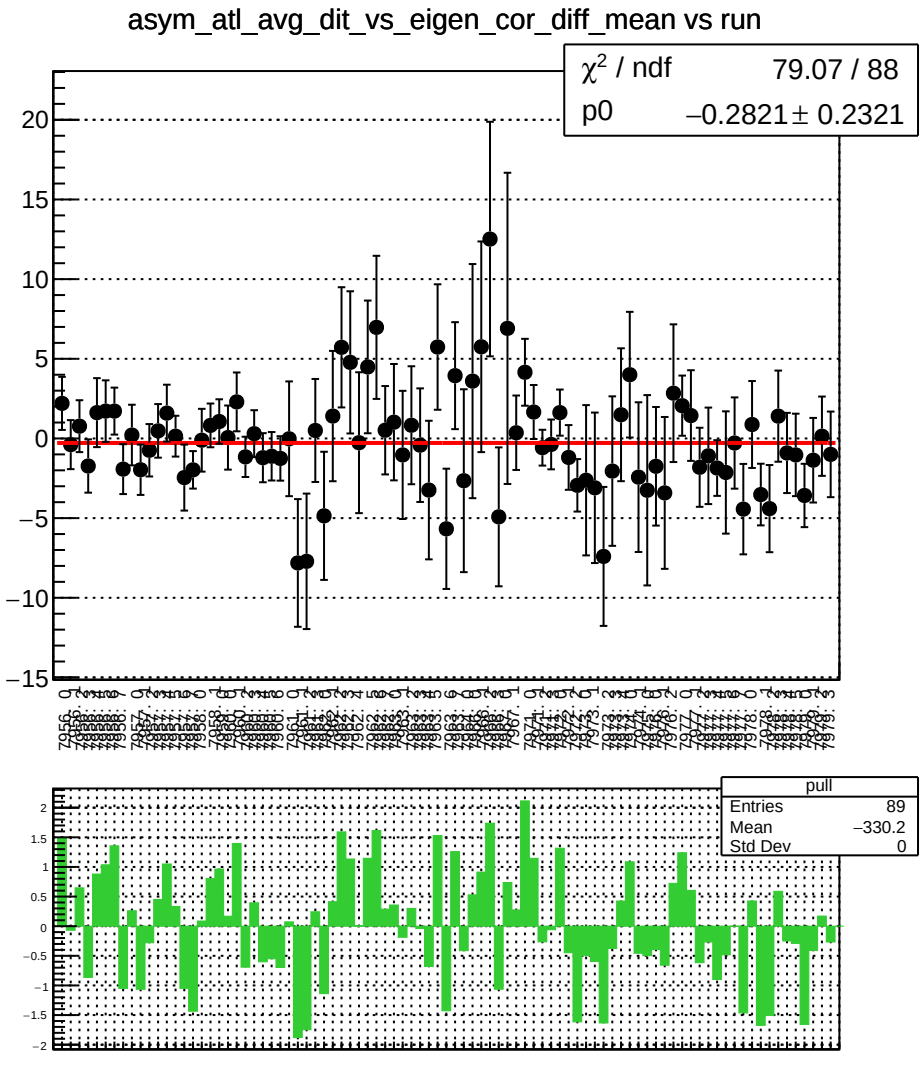

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.02 / 88
p0 4.621e−13 ± 4.539e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 36.56
Std Dev 41.38
pull1D
Entries 89
Mean −0.1224
Std Dev 1.037

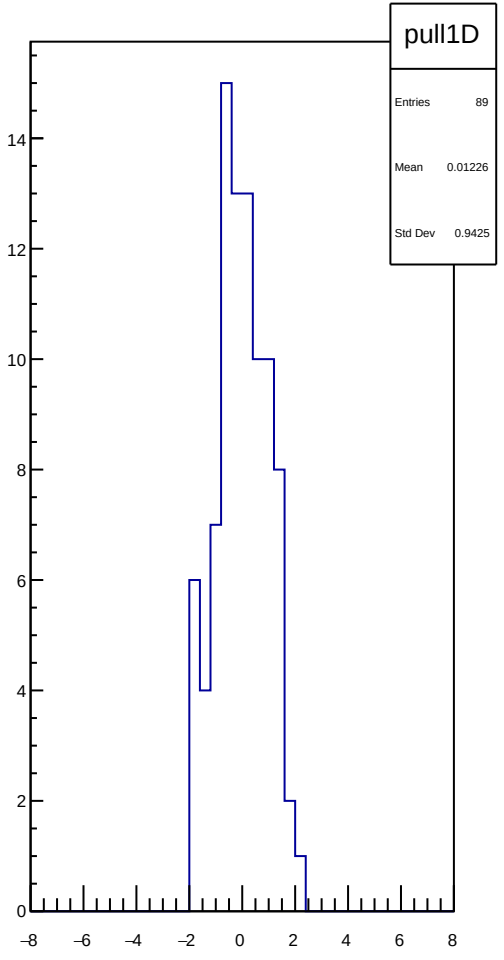

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.174e+06 / 88
p0 2.52e−10 ± 3.209e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

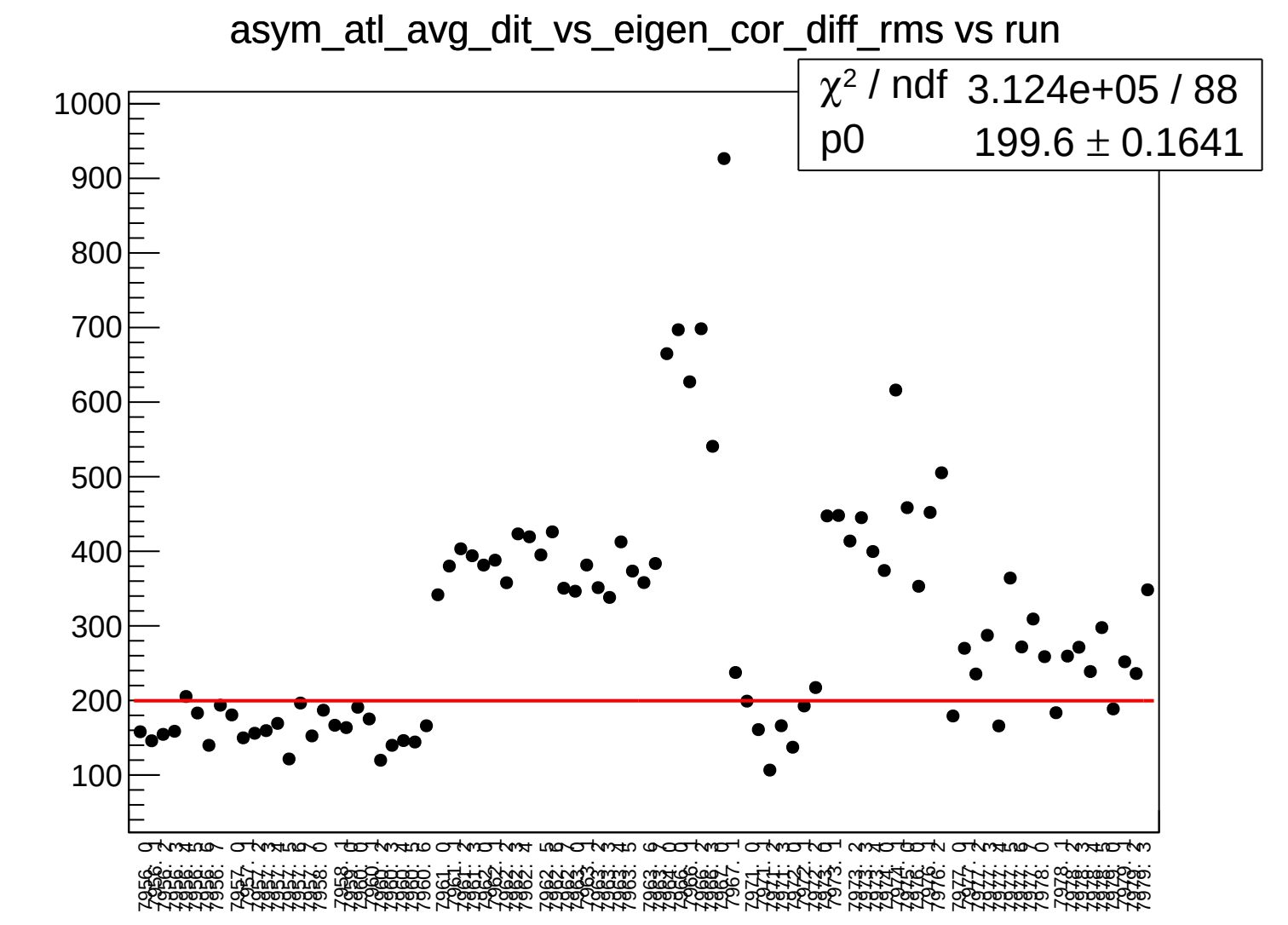

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.07 / 88
p0 −0.2821 ± 0.2321
pull
Entries 89
Mean −330.2
Std Dev 0

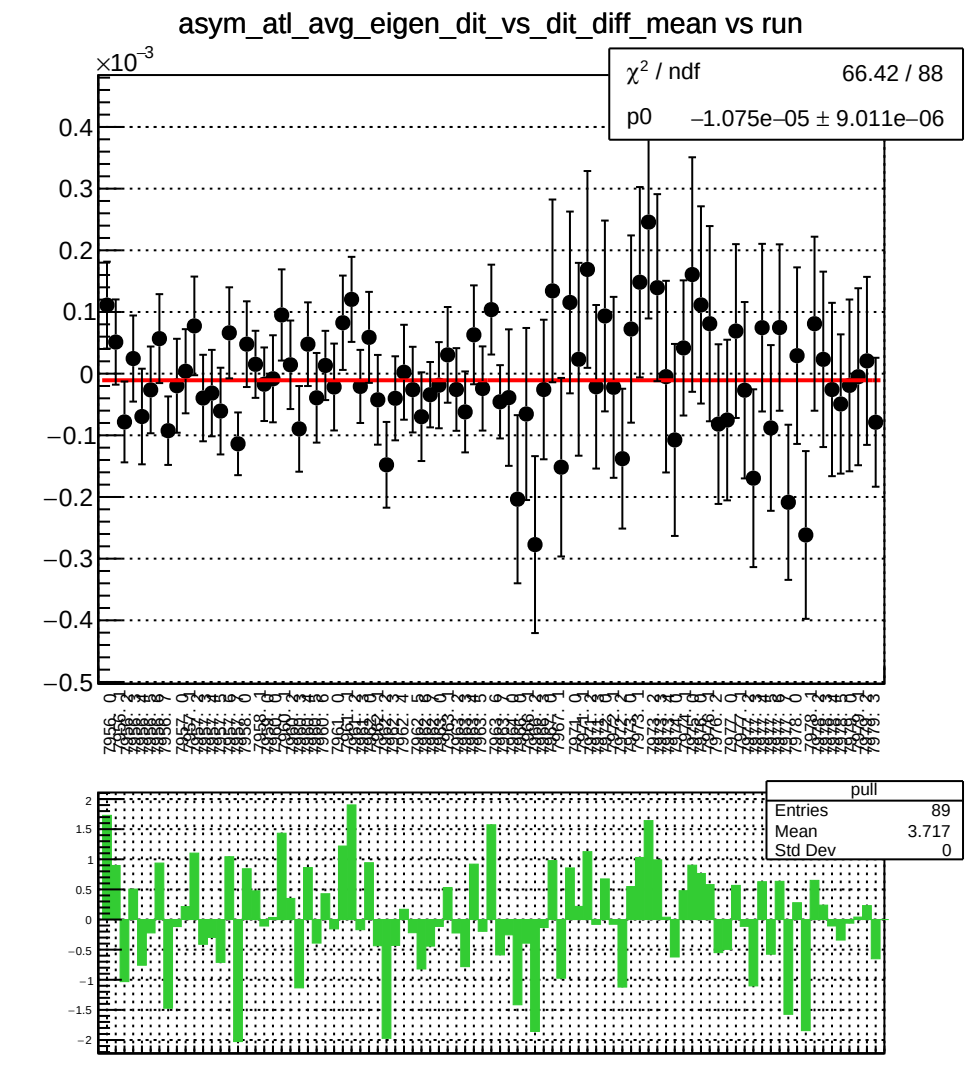

pull1D
Entries 89
Mean 0.01226
Std Dev 0.9425

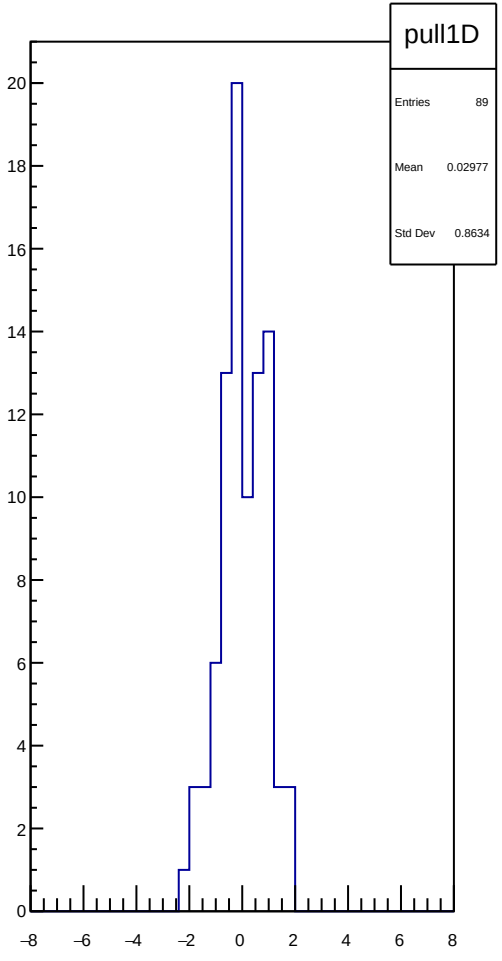

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.124e+05 / 88
p0 199.6 ± 0.1641
1000
900
800
700
600
500
400
300
200
100

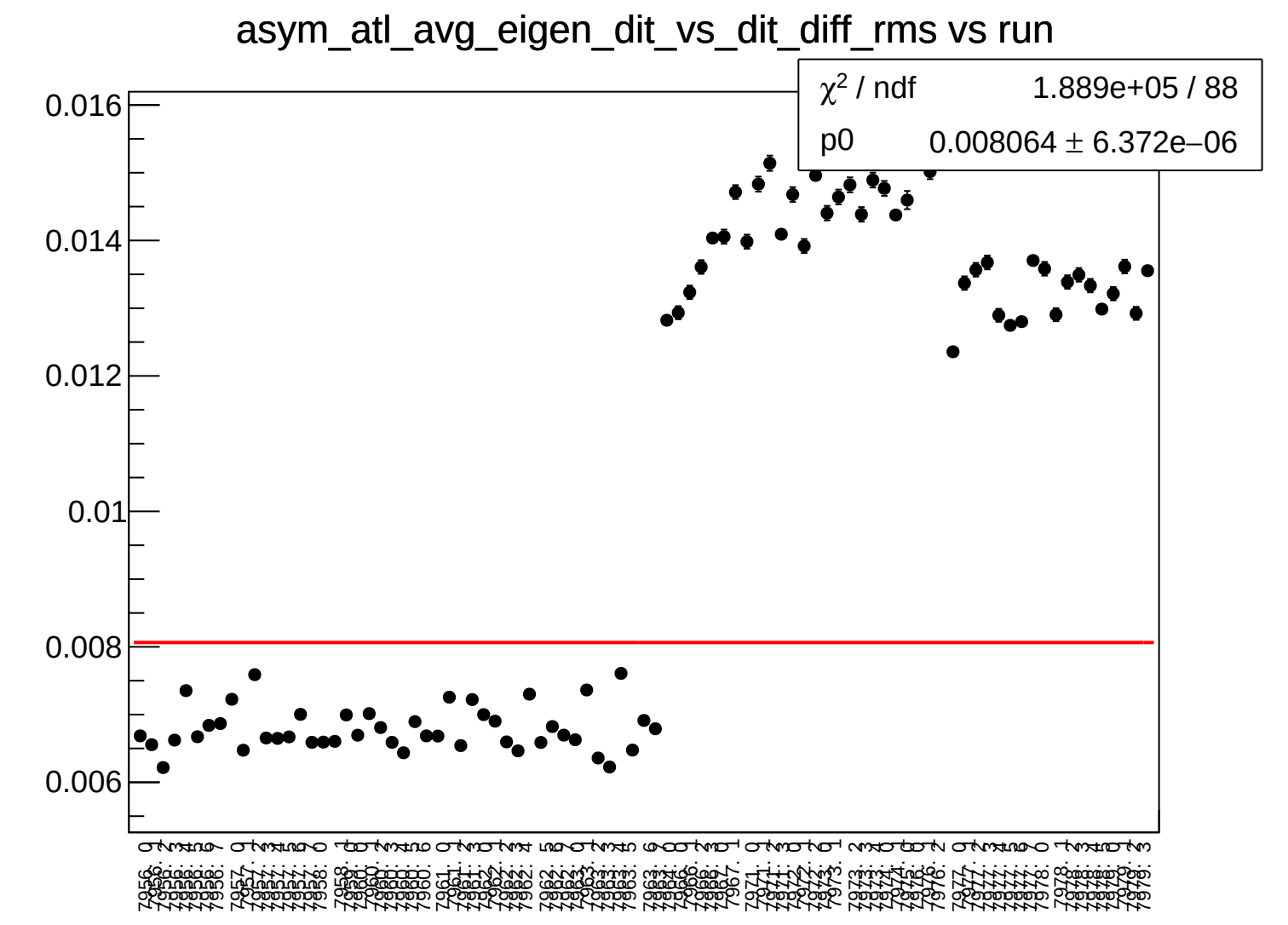

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.07 / 88
p0 −0.2821 ± 0.2321
pull
Entries 89
Mean −330.2
Std Dev 0

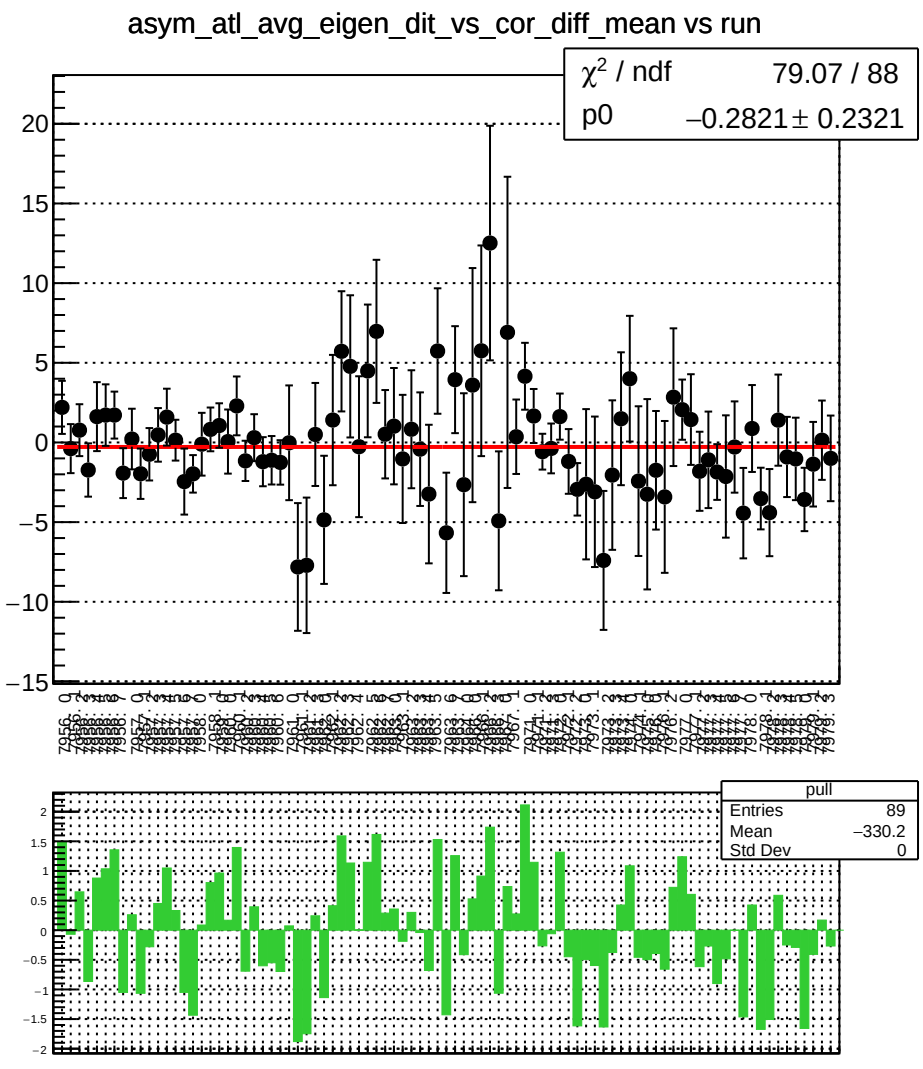

pull1D
Entries 89
Mean 0.01226
Std Dev 0.9425

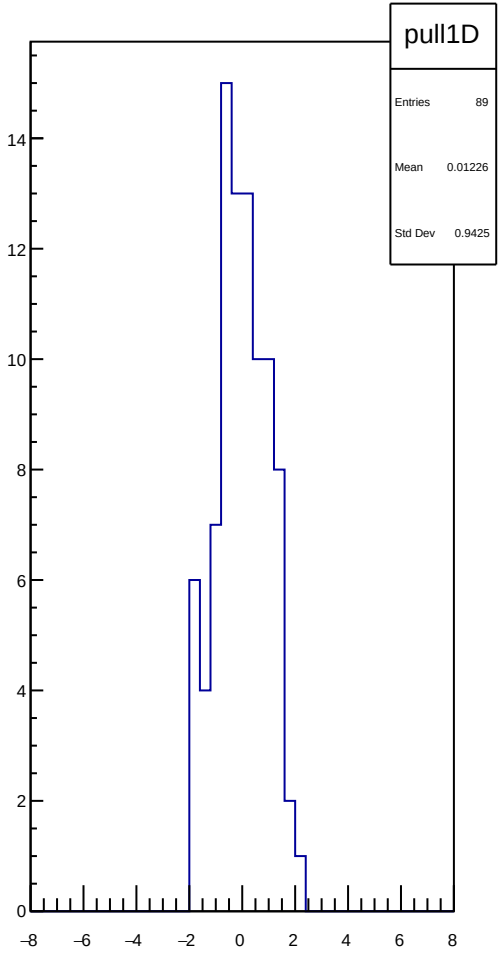

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.124e+05 / 88
p0 199.6 ± 0.1641
1000
900
800
700
600
500
400
300
200
100

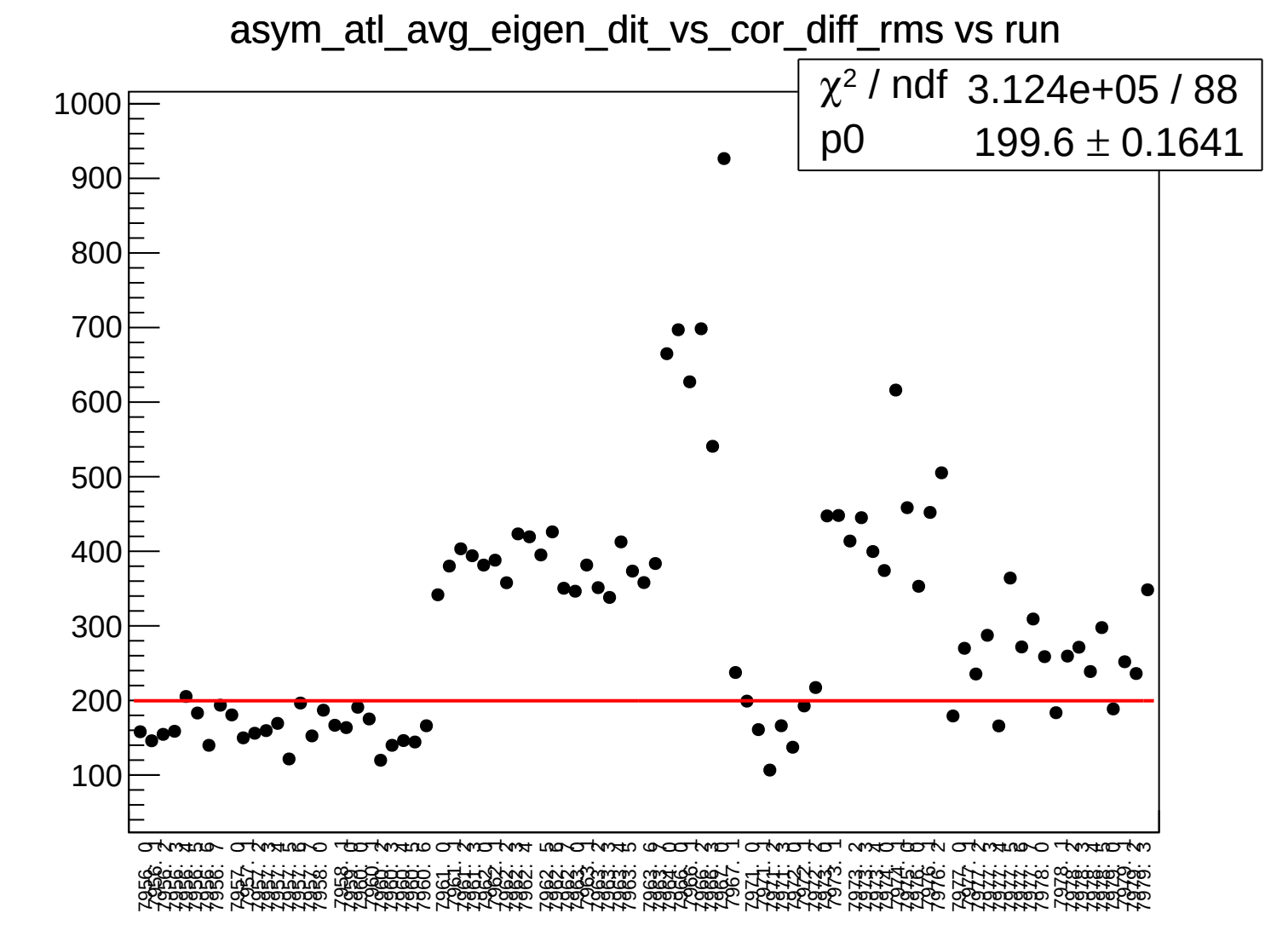

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 66.42 / 88
p0 −1.075e−05 ± 9.011e−06
pull
Entries 89
Mean 3.717
Std Dev 0

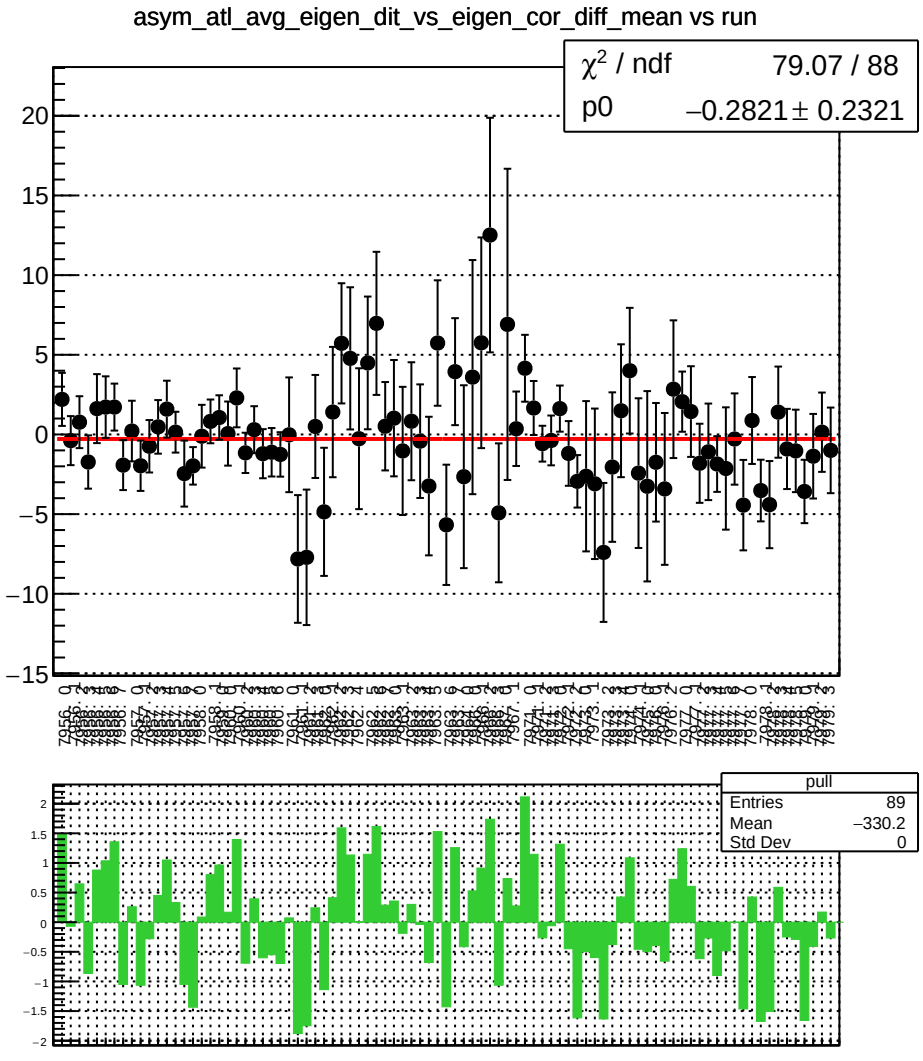

pull1D
Entries 89
Mean 0.02977
Std Dev 0.8634

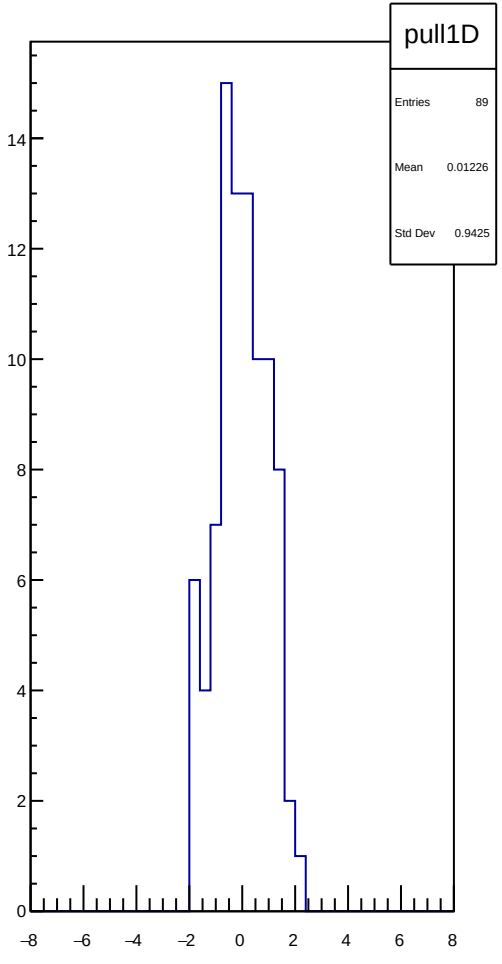

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.889e+05 / 88
p0 0.008064 ± 6.372e−06
0.016
0.014
0.012
0.01
0.008
0.006

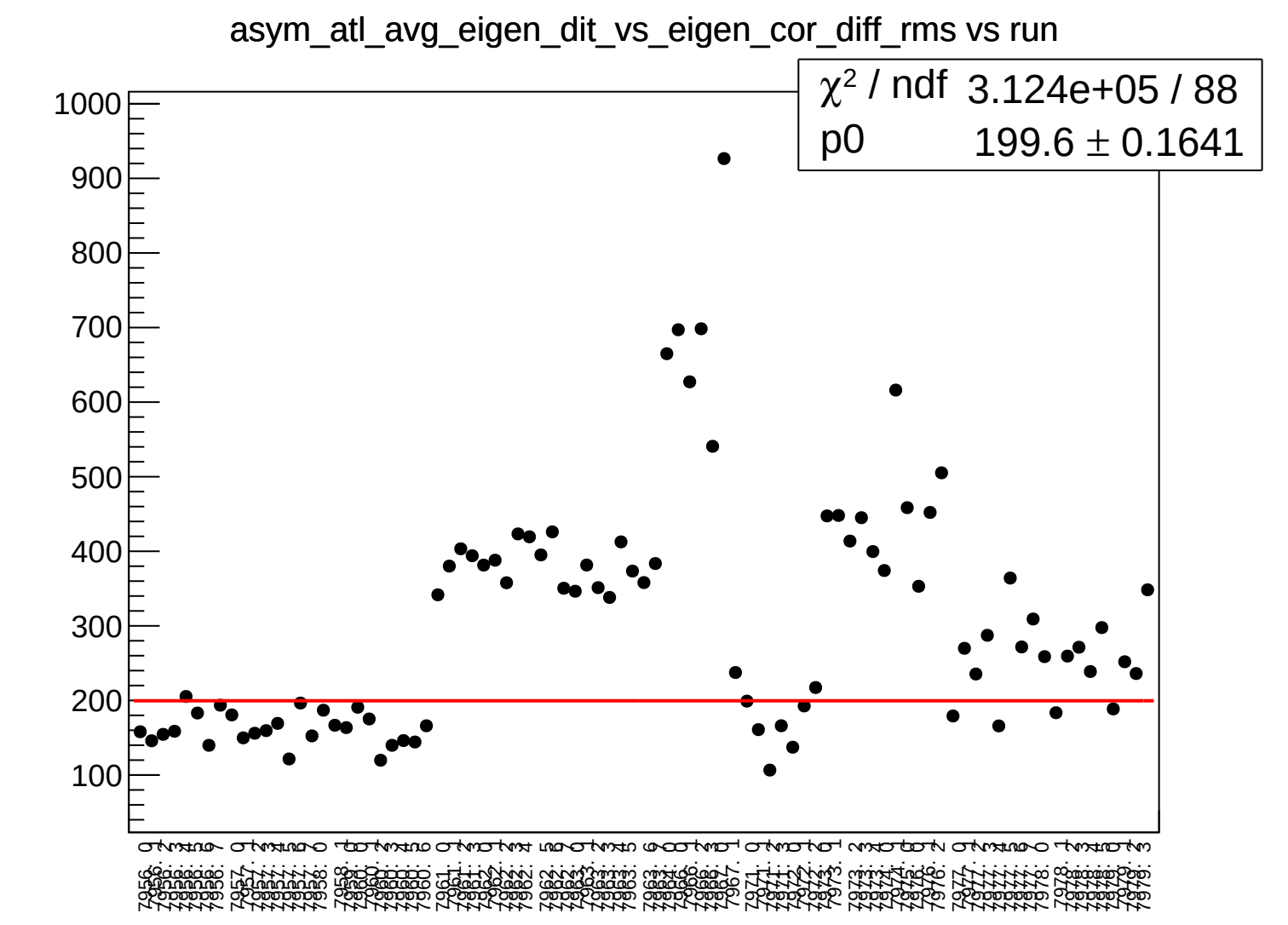

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.07 / 88
p0 −0.2821 ± 0.2321
pull
Entries 89
Mean −330.2
Std Dev 0

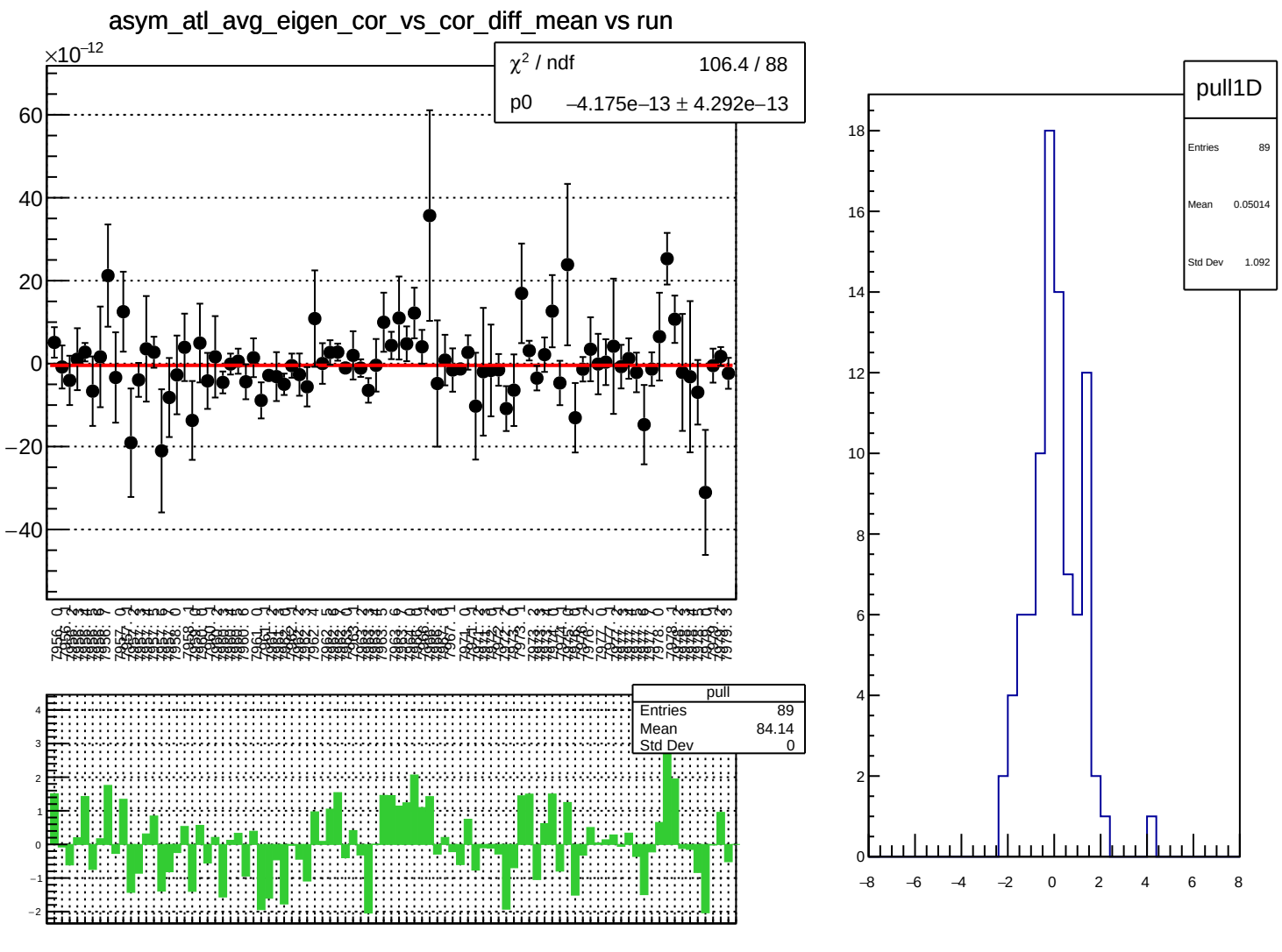

pull1D
Entries 89
Mean 0.01226
Std Dev 0.9425

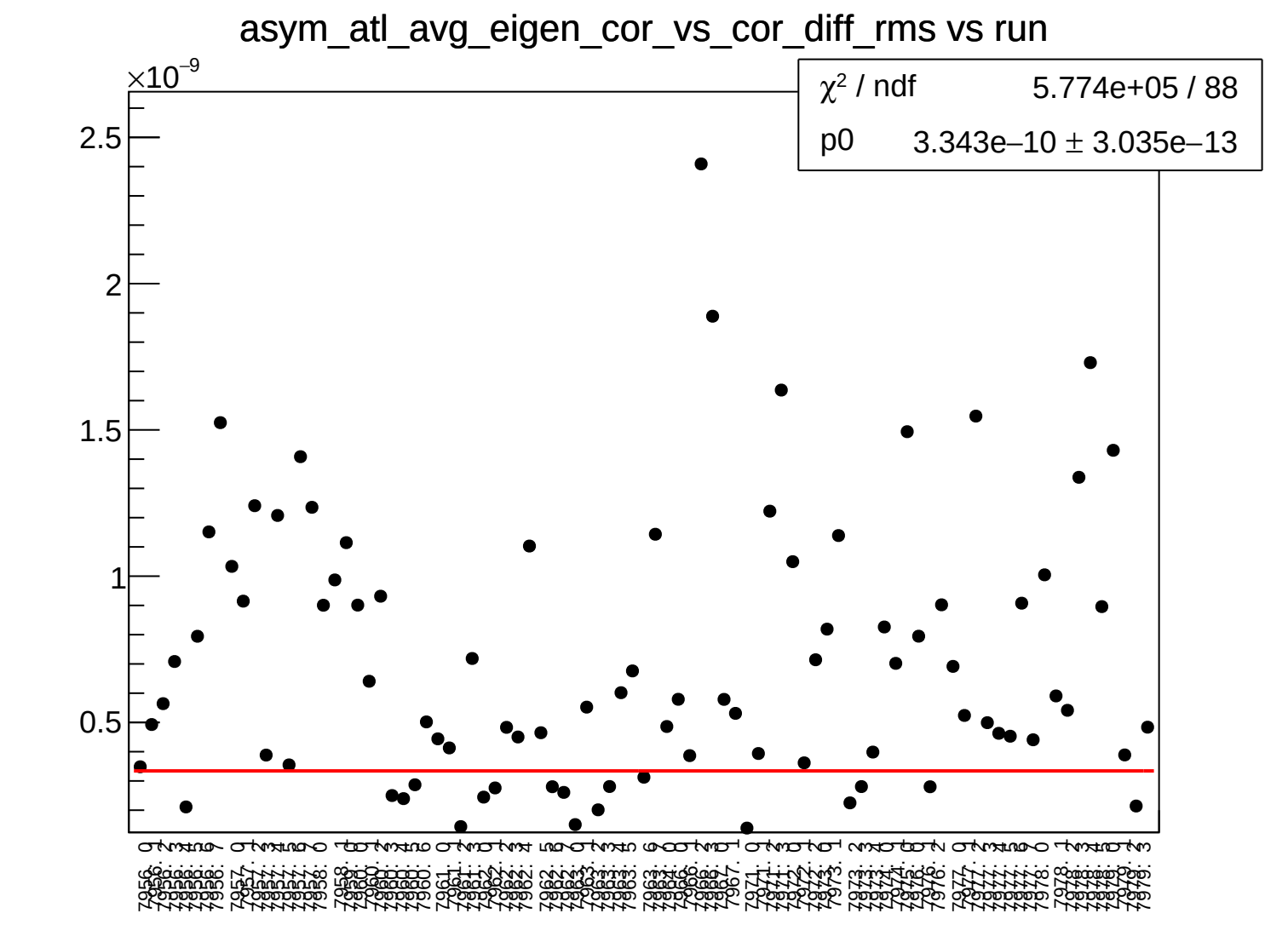

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.124e+05 / 88
p0 199.6 ± 0.1641
1000
900
800
700
600
500
400
300
200
100

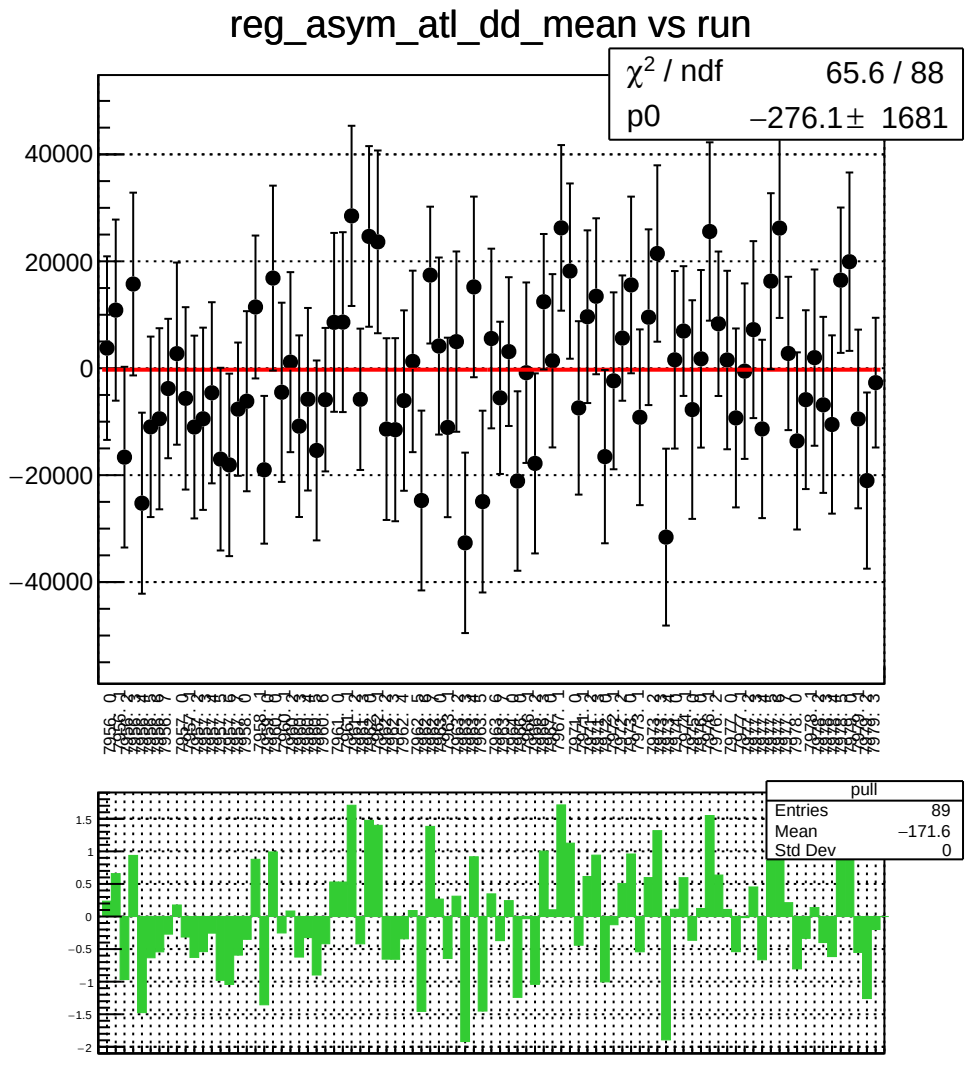

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.07 / 88
p0 −0.2821 ± 0.2321
pull
Entries 89
Mean −330.2
Std Dev 0

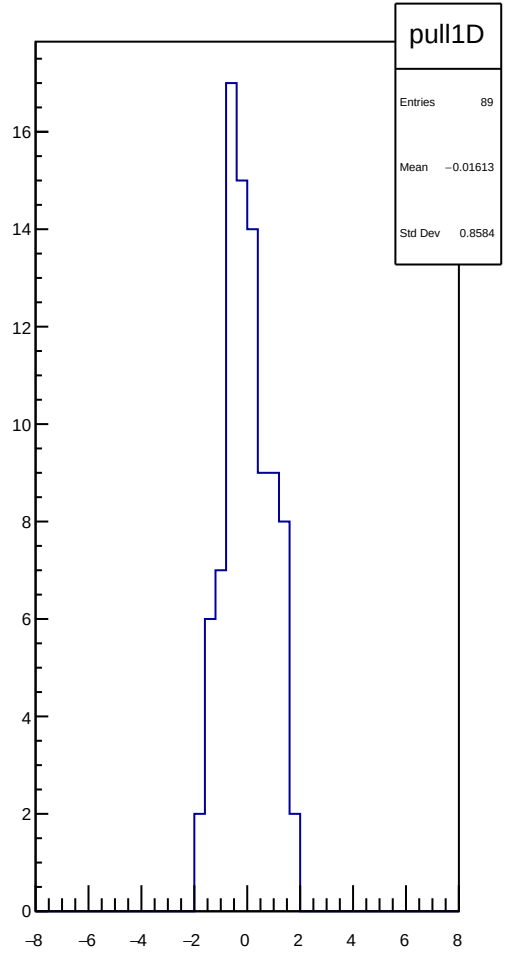

pull1D
Entries 89
Mean 0.01226
Std Dev 0.9425

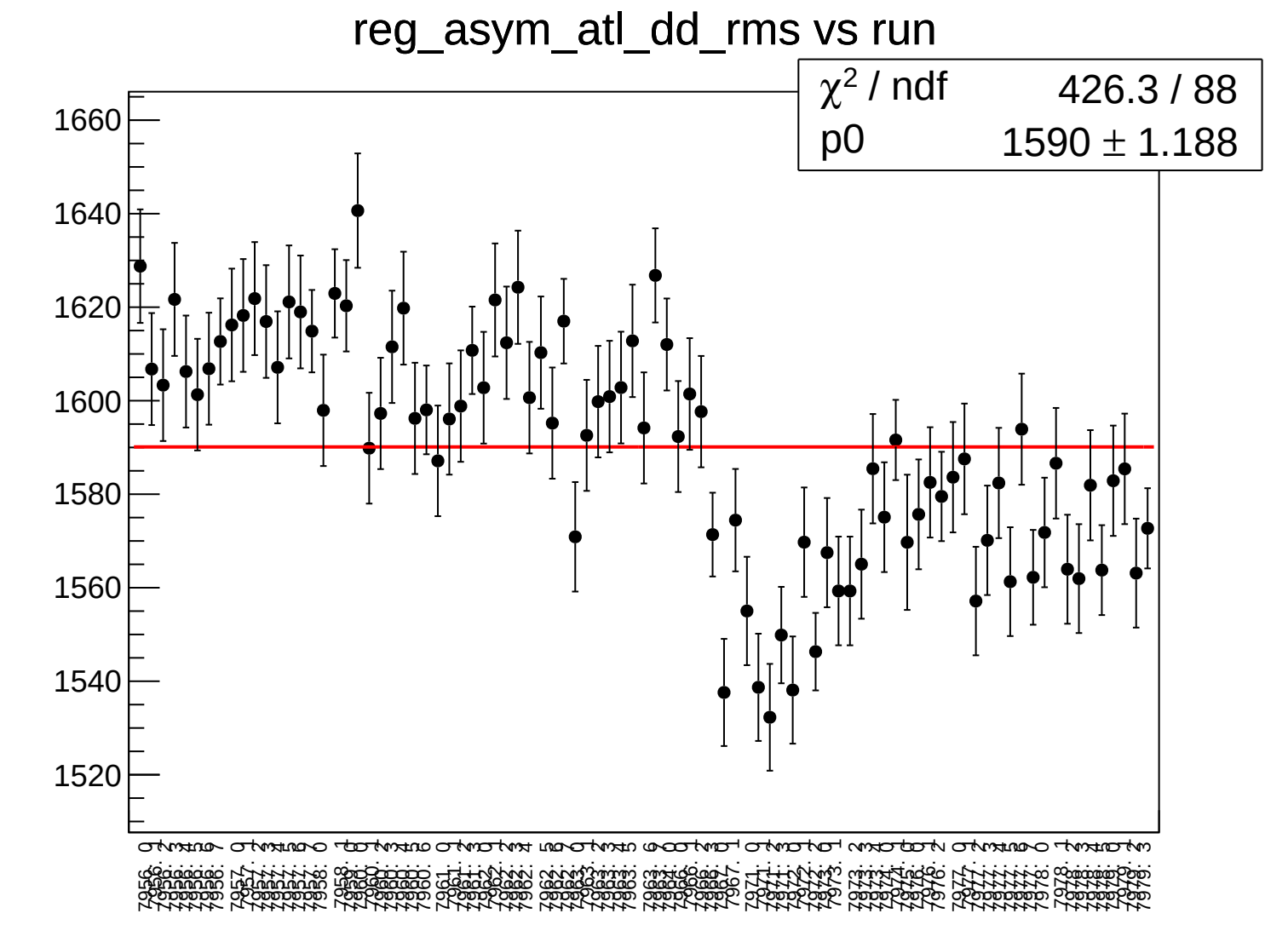

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.124e+05 / 88
p0 199.6 ± 0.1641
1000
900
800
700
600
500
400
300
200
100

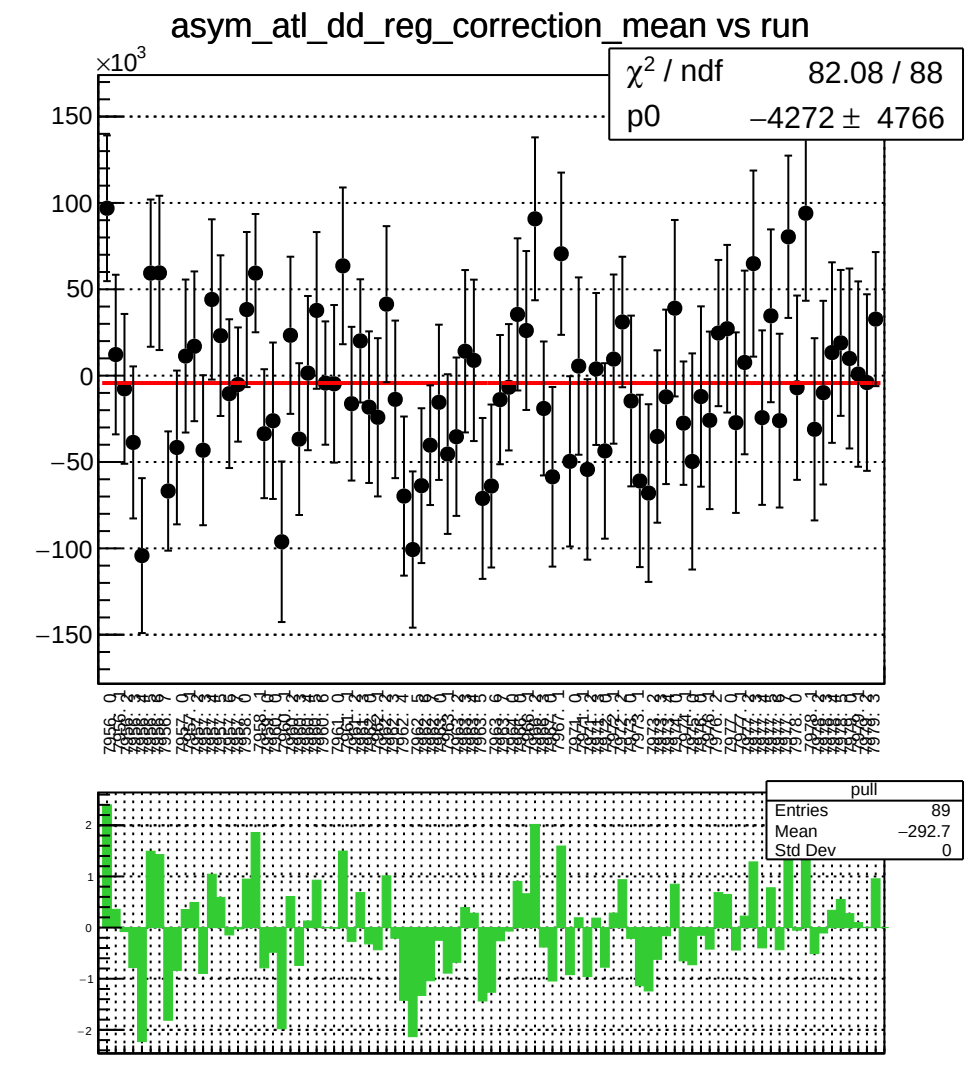

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.4 / 88
p0 −4.175e−13 ± 4.292e−13
60
40
20
0
−20
−40
pull
Entries 89
Mean 84.14
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.05014
Std Dev 1.092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

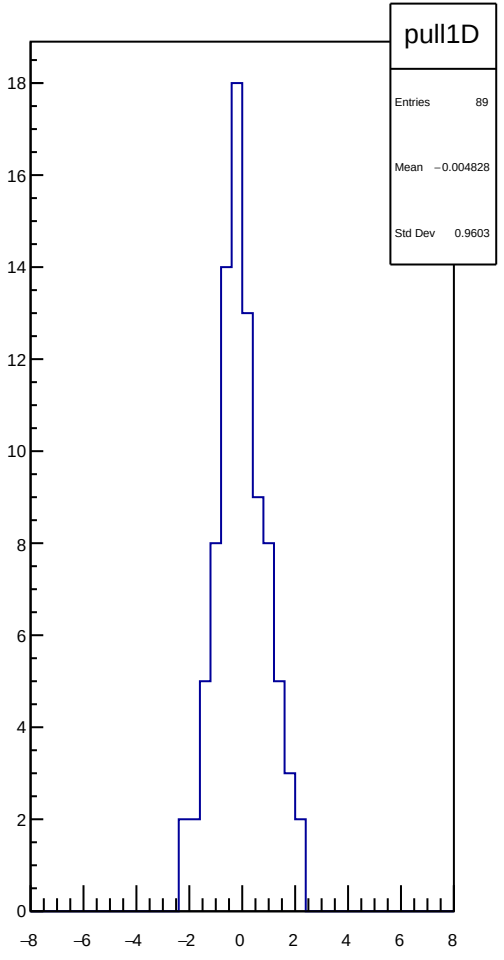

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.774e+05 / 88
p0 3.343e−10 ± 3.035e−13
2.5
2
1.5
1
0.5

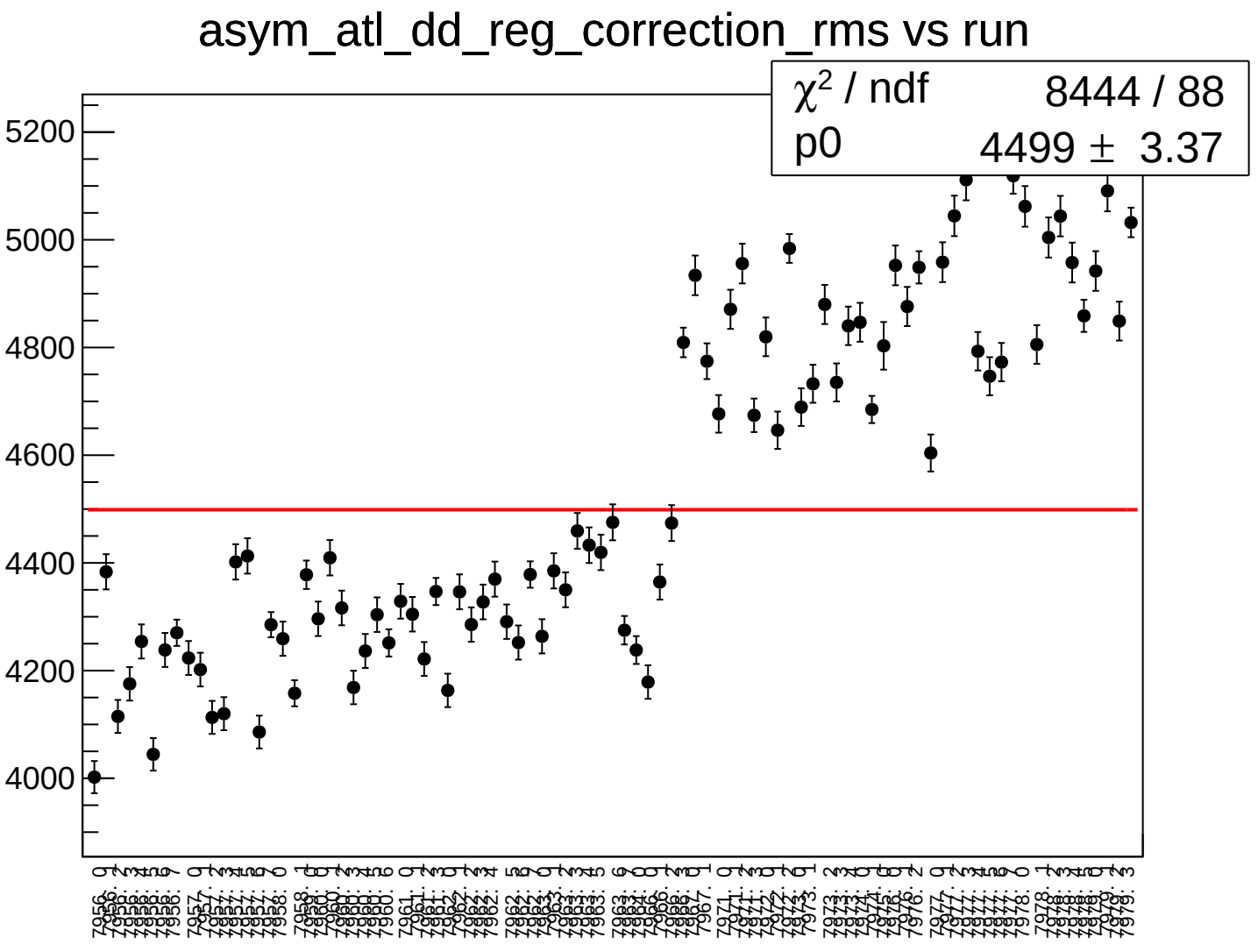

reg_asym_atl_dd_mean vs run
χ² / ndf 65.6 / 88
p0 −276.1± 1681
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −171.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

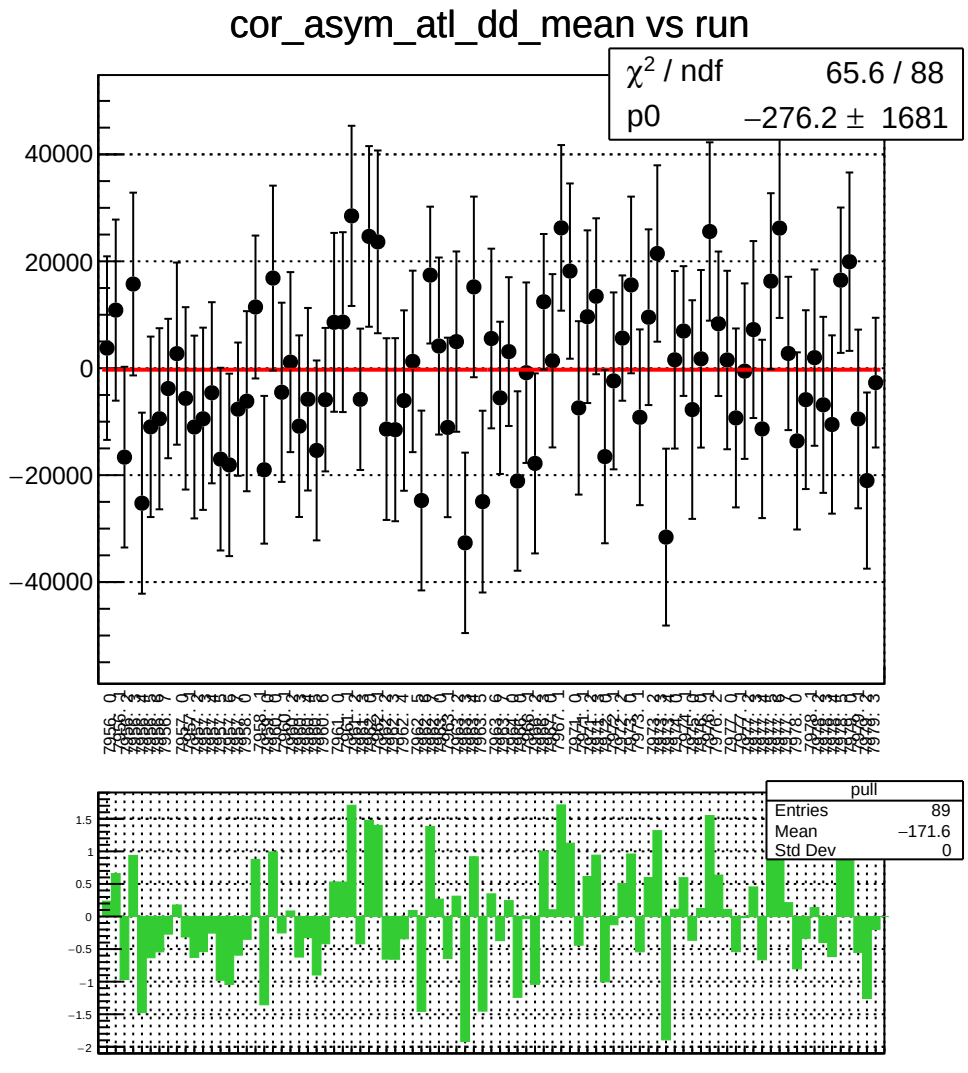

pull1D
Entries 89
Mean −0.01613
Std Dev 0.8584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

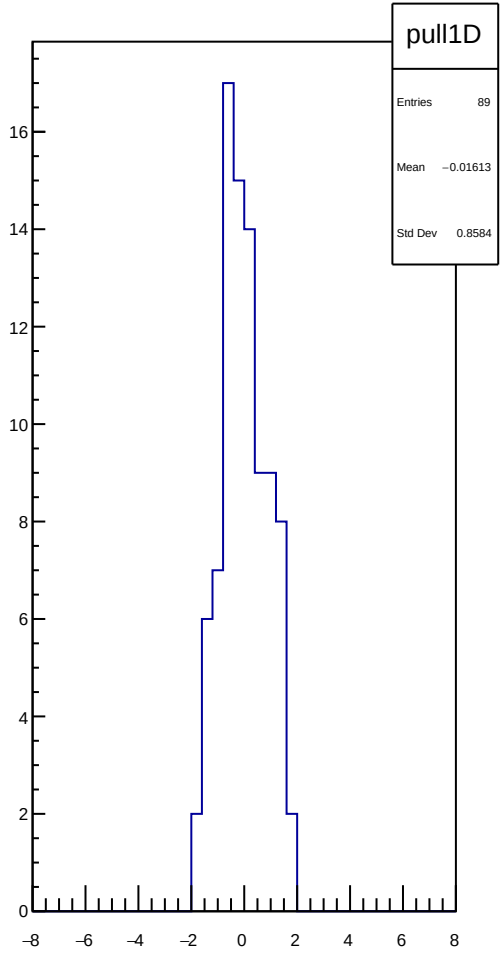

reg_asym_atl_dd_rms vs run
χ² / ndf 426.3 / 88
p0 1590 ± 1.188
1660
1640
1620
1600
1580
1560
1540
1520

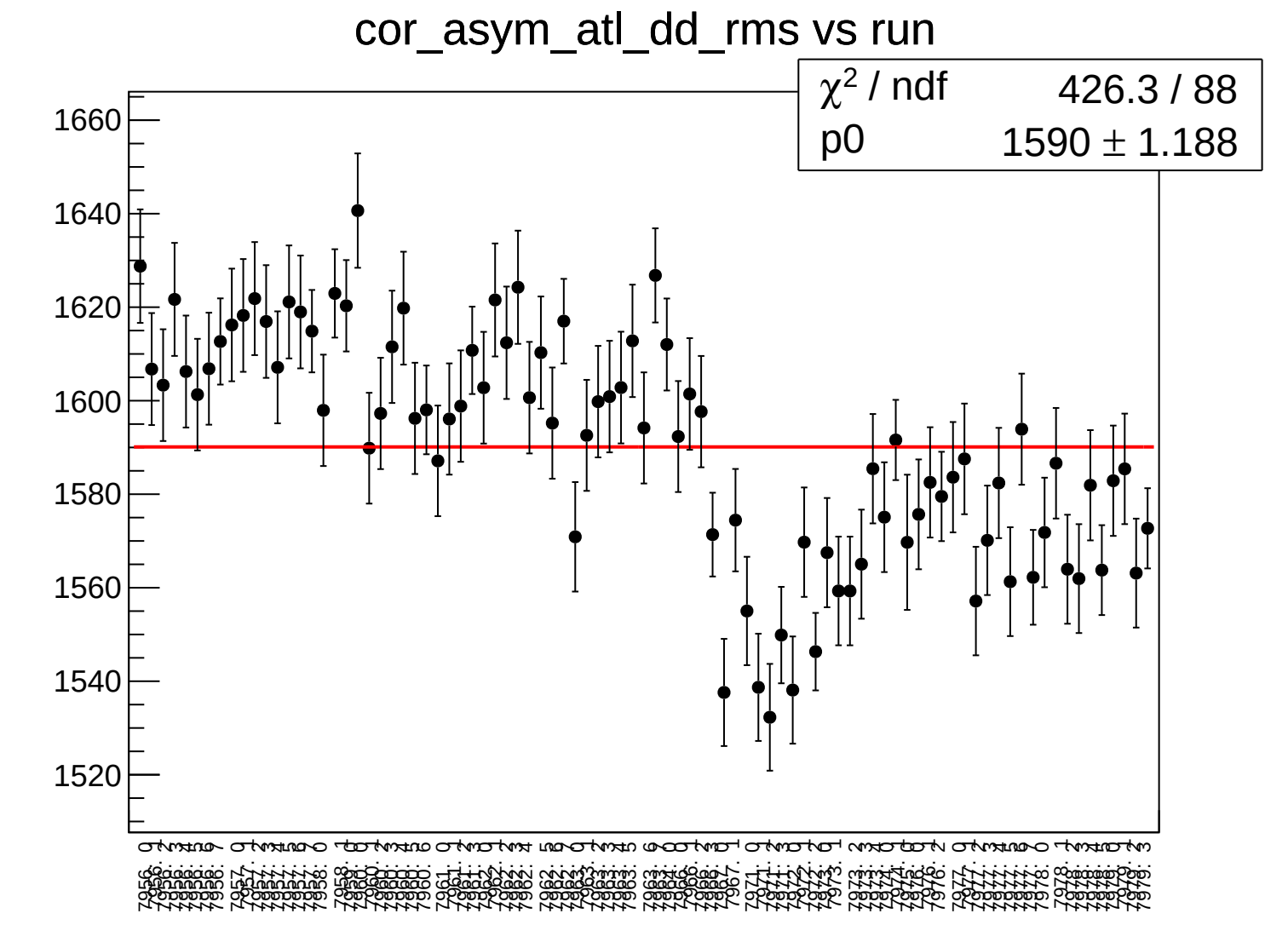

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.08 / 88
p0 −4272 ± 4766
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −292.7
Std Dev 0
2
1
0
−1
−2

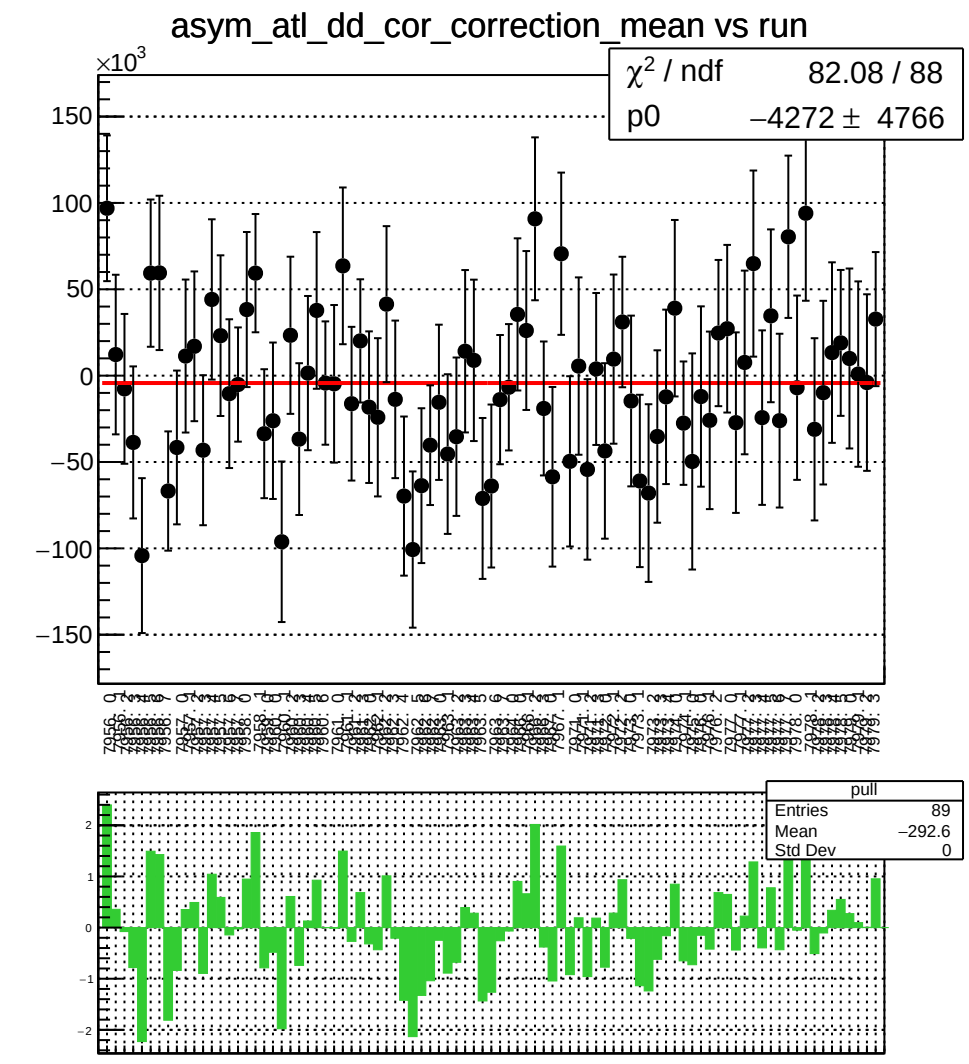

pull1D
Entries 89
Mean −0.004828
Std Dev 0.9603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

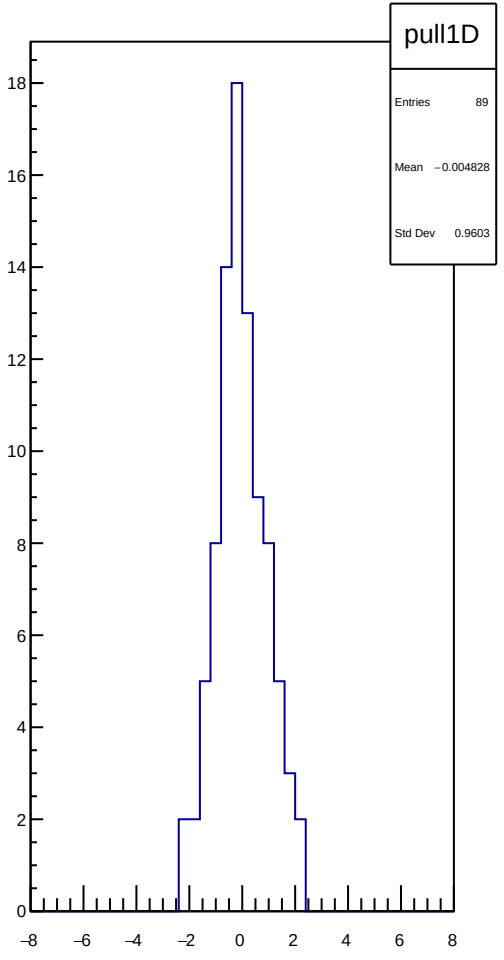

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 8444 / 88
p0 4499 ± 3.37
5200
5000
4800
4600
4400
4200
4000

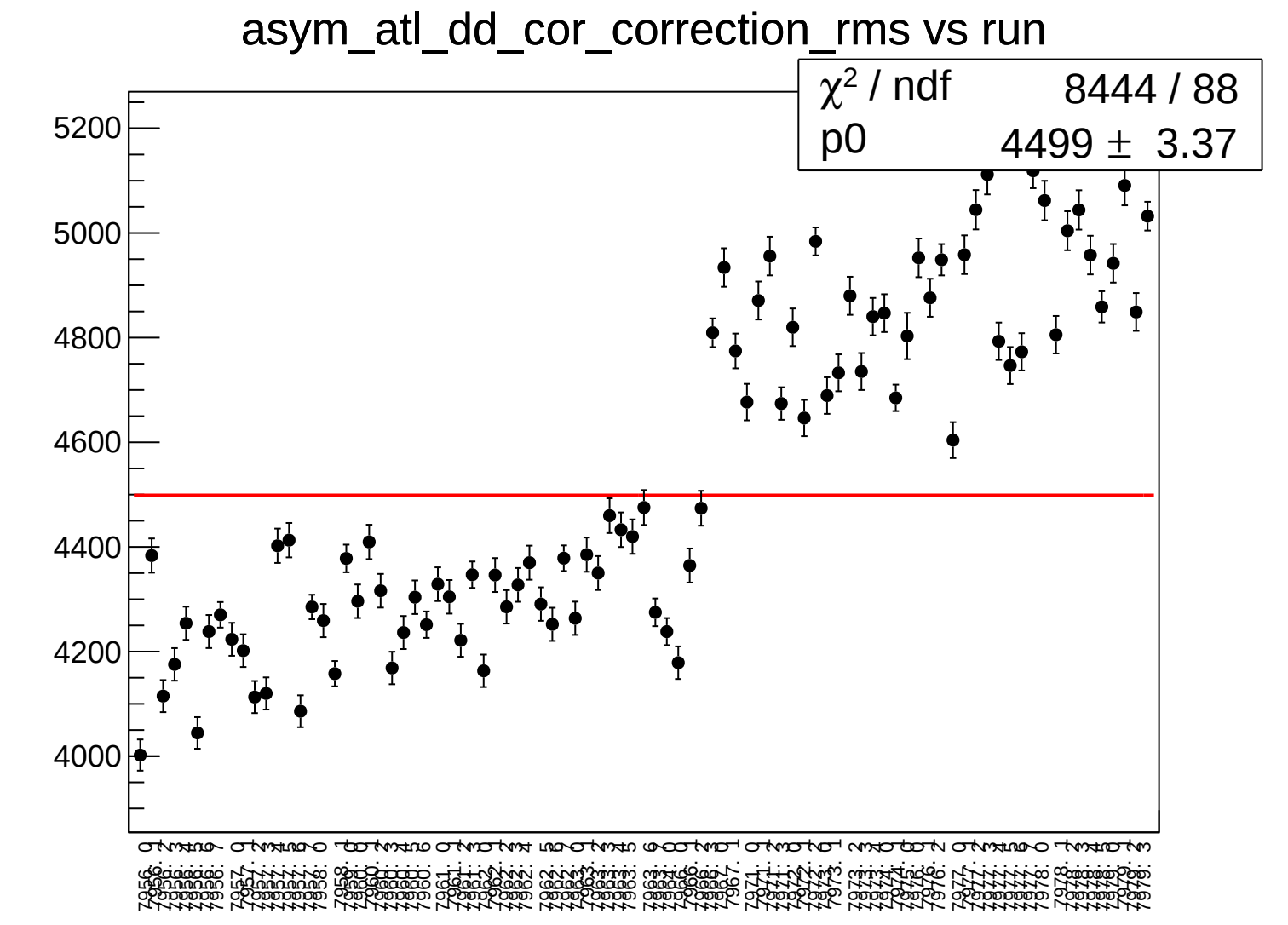

cor_asym_atl_dd_mean vs run
χ² / ndf 65.6 / 88
p0 −276.2 ± 1681
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −171.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

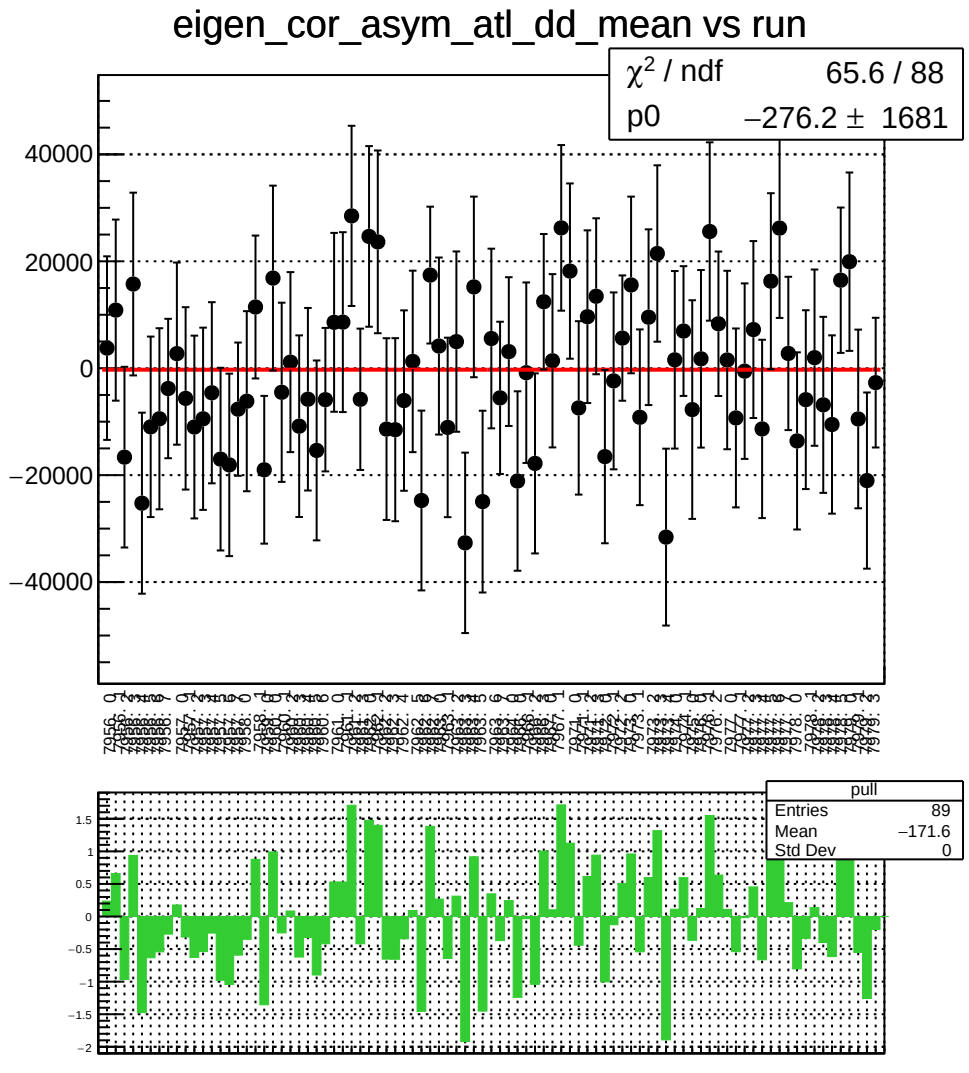

pull1D
Entries 89
Mean −0.01613
Std Dev 0.8584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

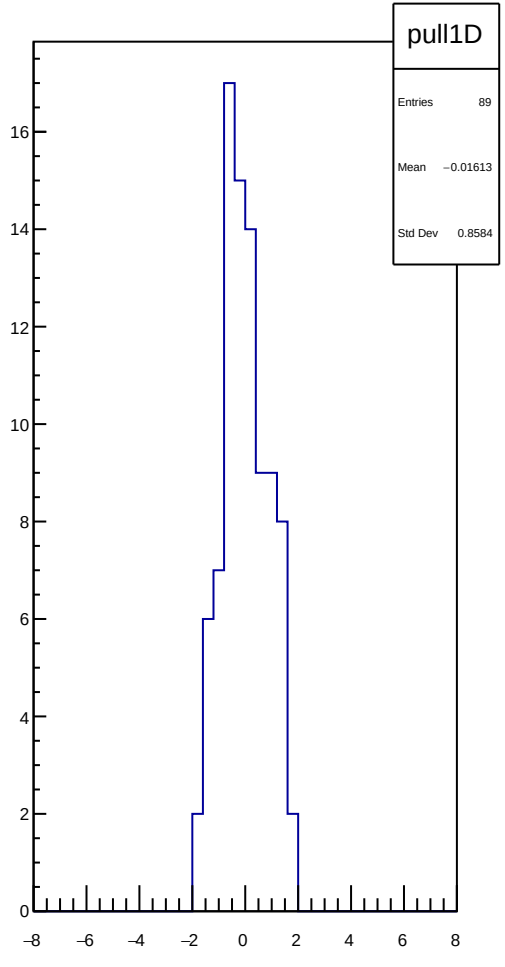

cor_asym_atl_dd_rms vs run
χ² / ndf 426.3 / 88
p0 1590 ± 1.188
1660
1640
1620
1600
1580
1560
1540
1520

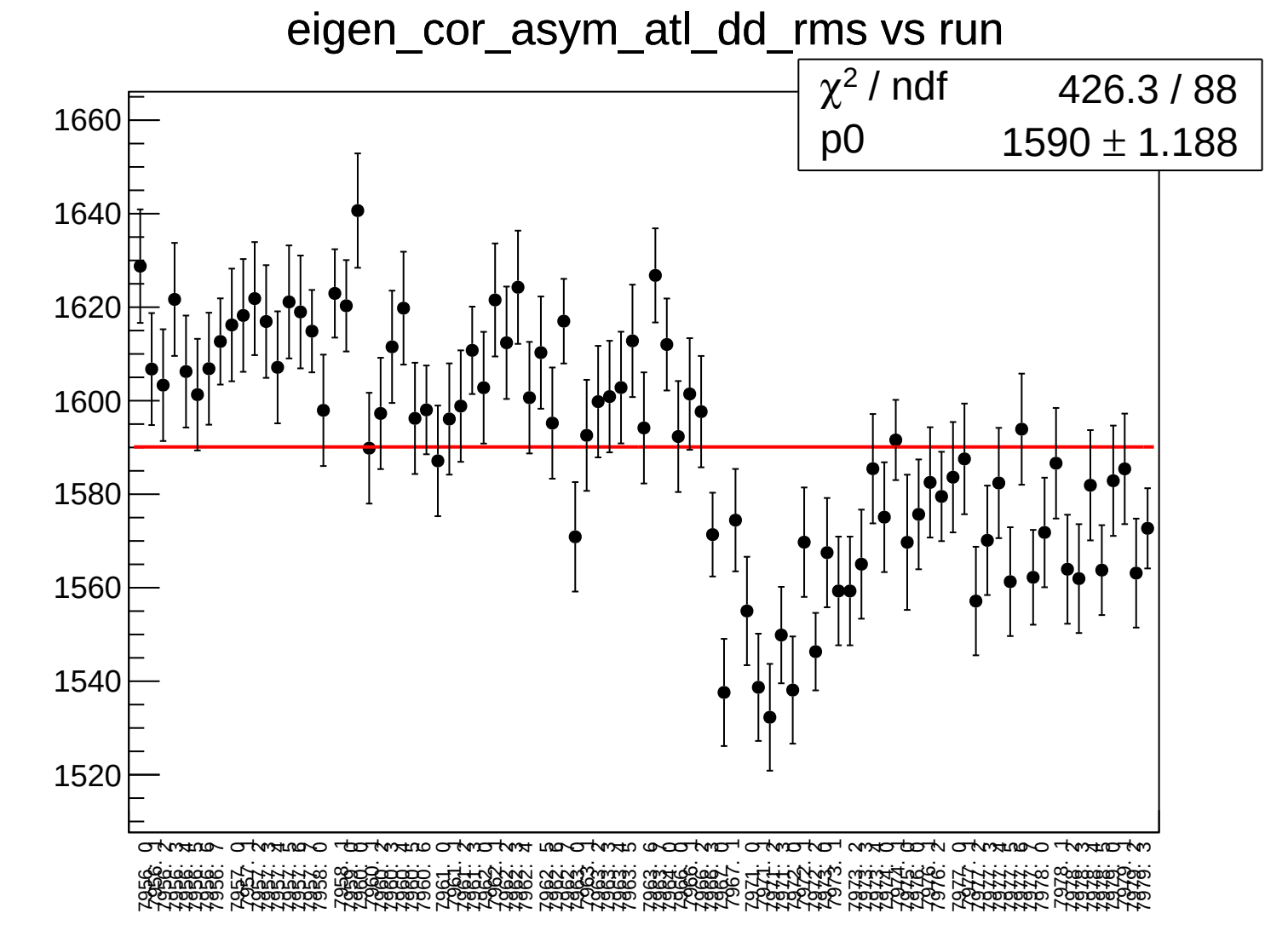

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.08 / 88
p0 −4272 ± 4766
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −292.6
Std Dev 0
2
1
0
−1
−2

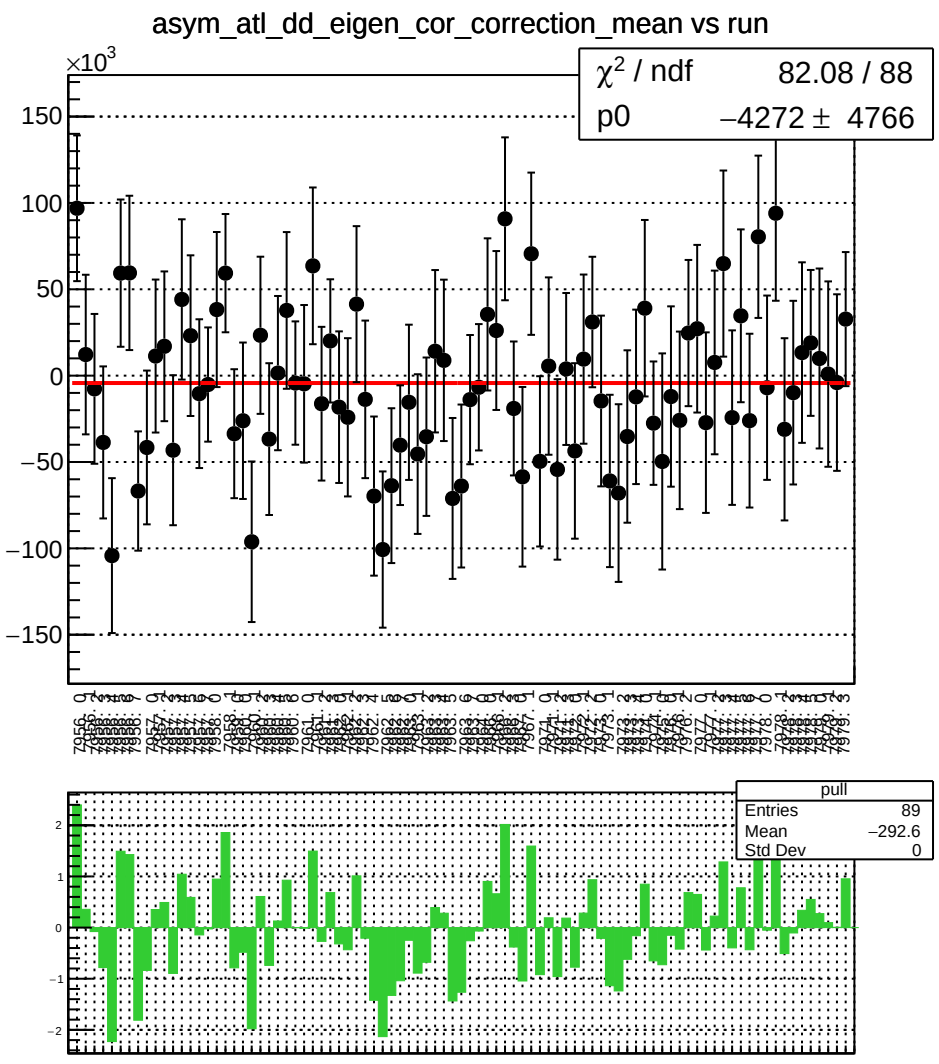

pull1D
Entries 89
Mean −0.004828
Std Dev 0.9603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

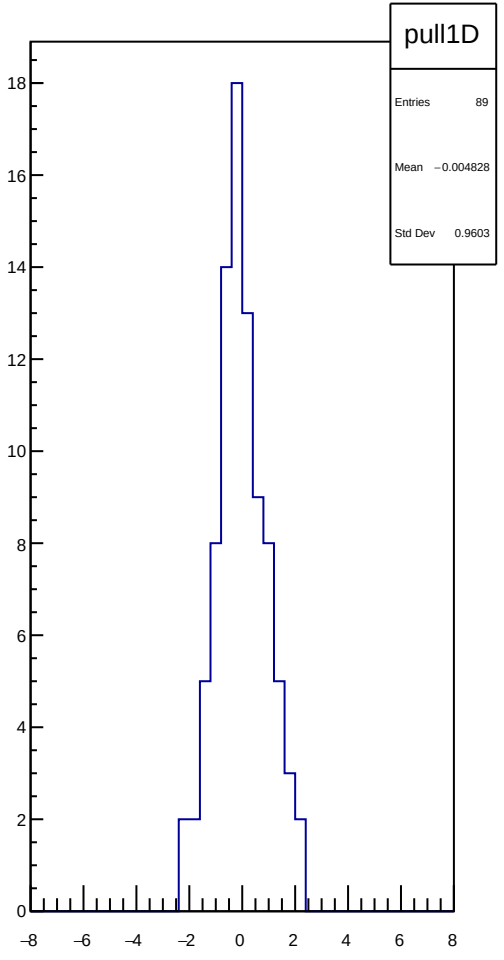

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 8444 / 88
p0 4499 ± 3.37
5200
5000
4800
4600
4400
4200
4000

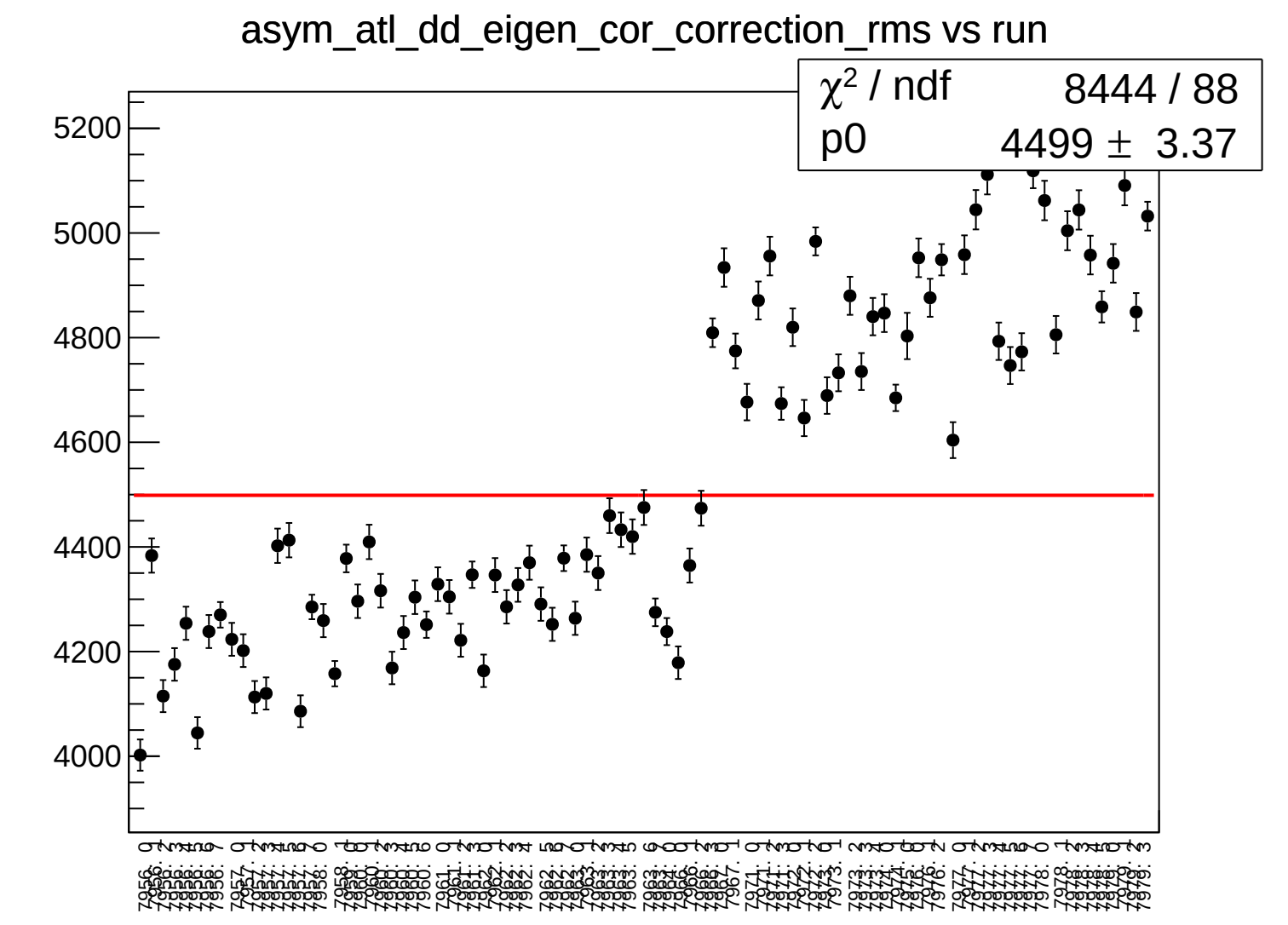

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 65.6 / 88
p0 −276.2 ± 1681
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −171.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

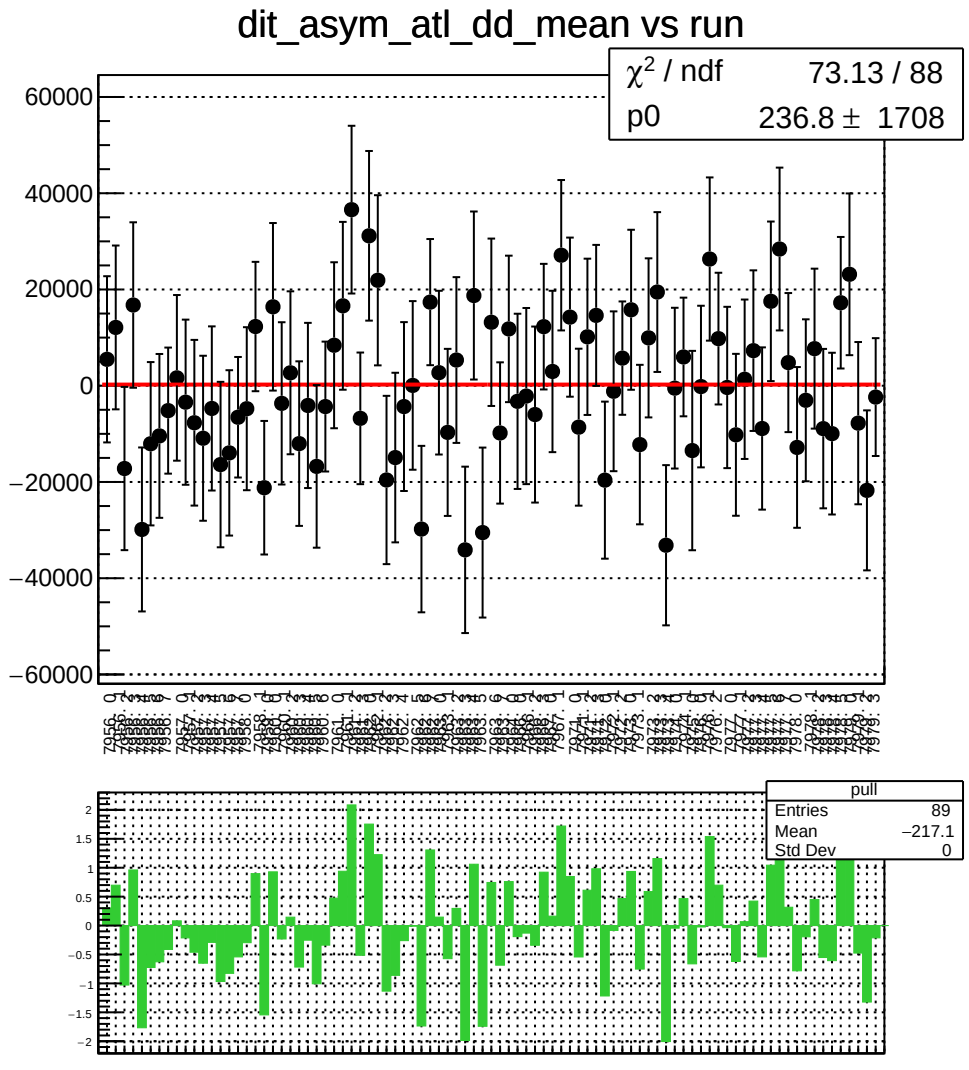

pull1D
Entries 89
Mean −0.01613
Std Dev 0.8584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

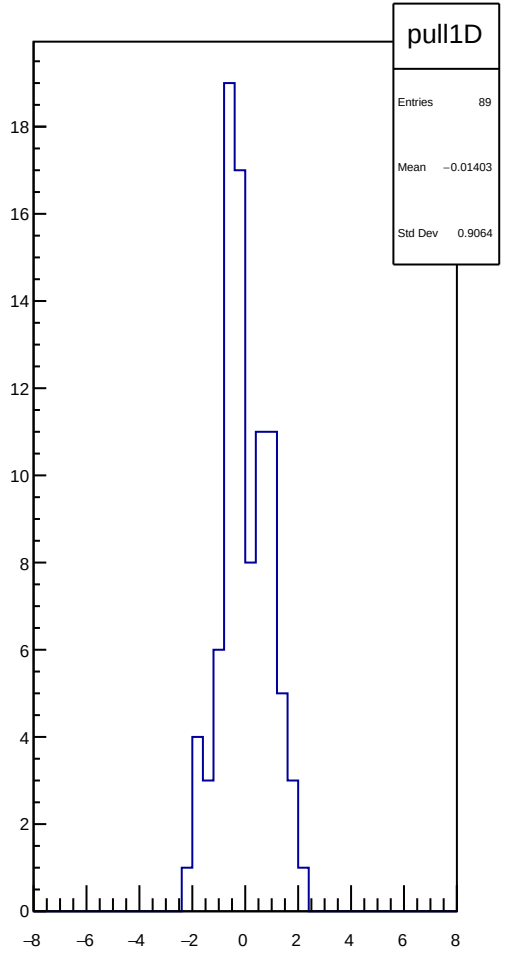

eigen_cor_asym_atl_dd_rms vs run
$\chi^2$ / ndf 426.3 / 88
p0 1590 ± 1.188
1660
1640
1620
1600
1580
1560
1540
1520

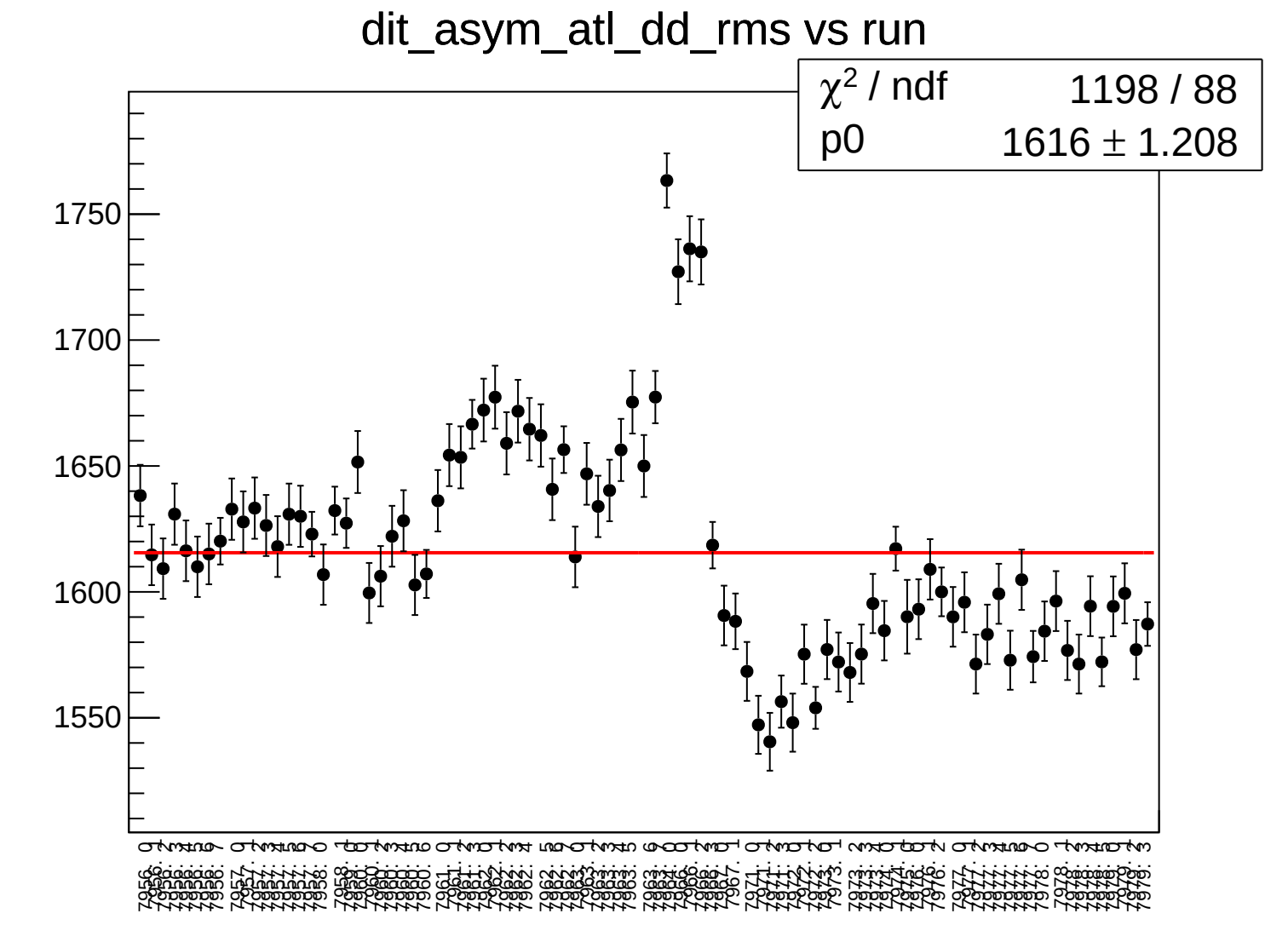

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.08 / 88
p0 −4272 ± 4766
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −292.6
Std Dev 0
2
1
0
−1
−2

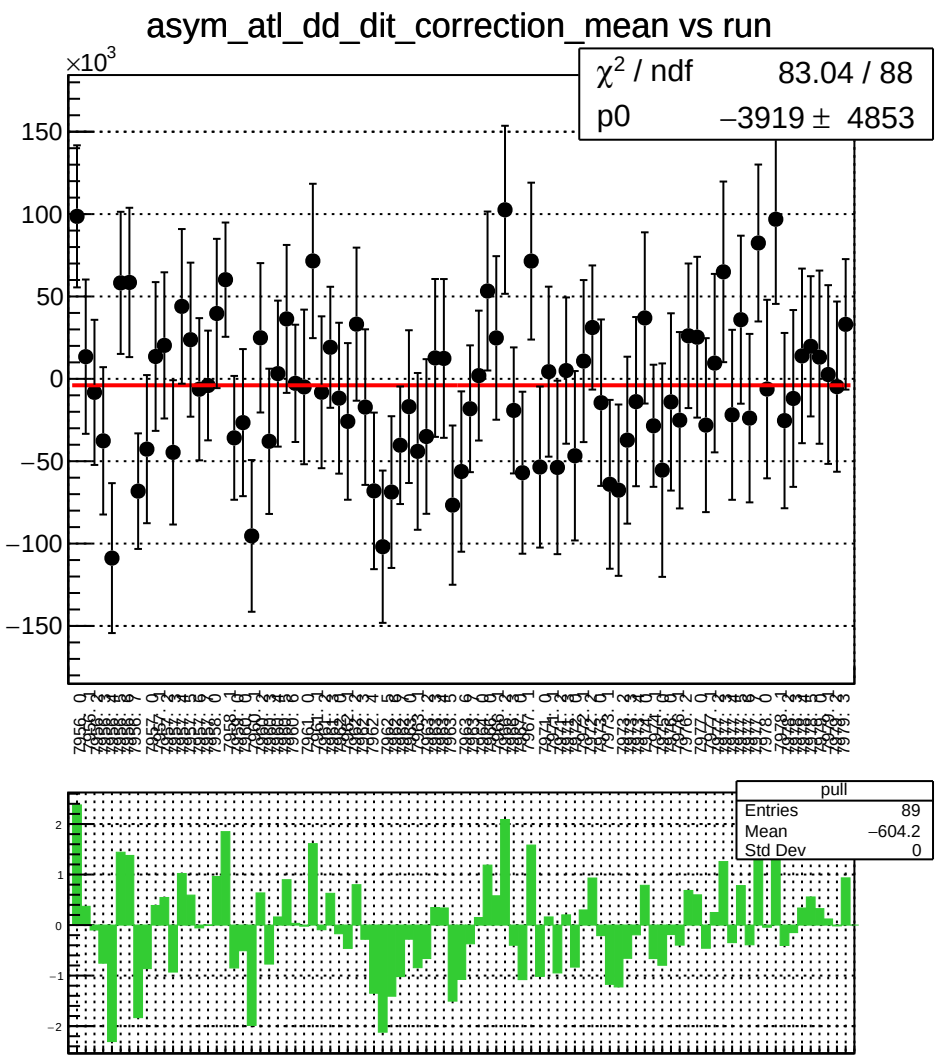

pull1D
Entries 89
Mean −0.004828
Std Dev 0.9603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

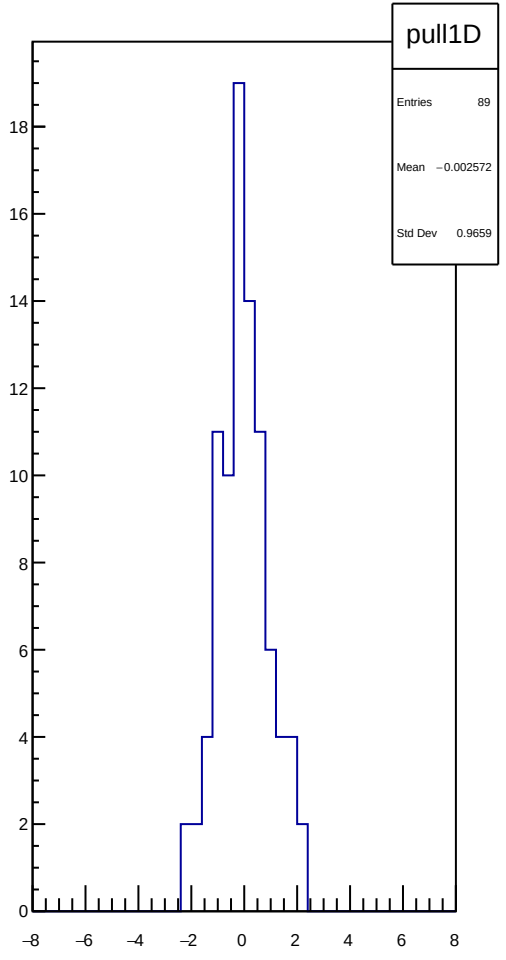

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 8444 / 88
p0 4499 ± 3.37
5200
5000
4800
4600
4400
4200
4000

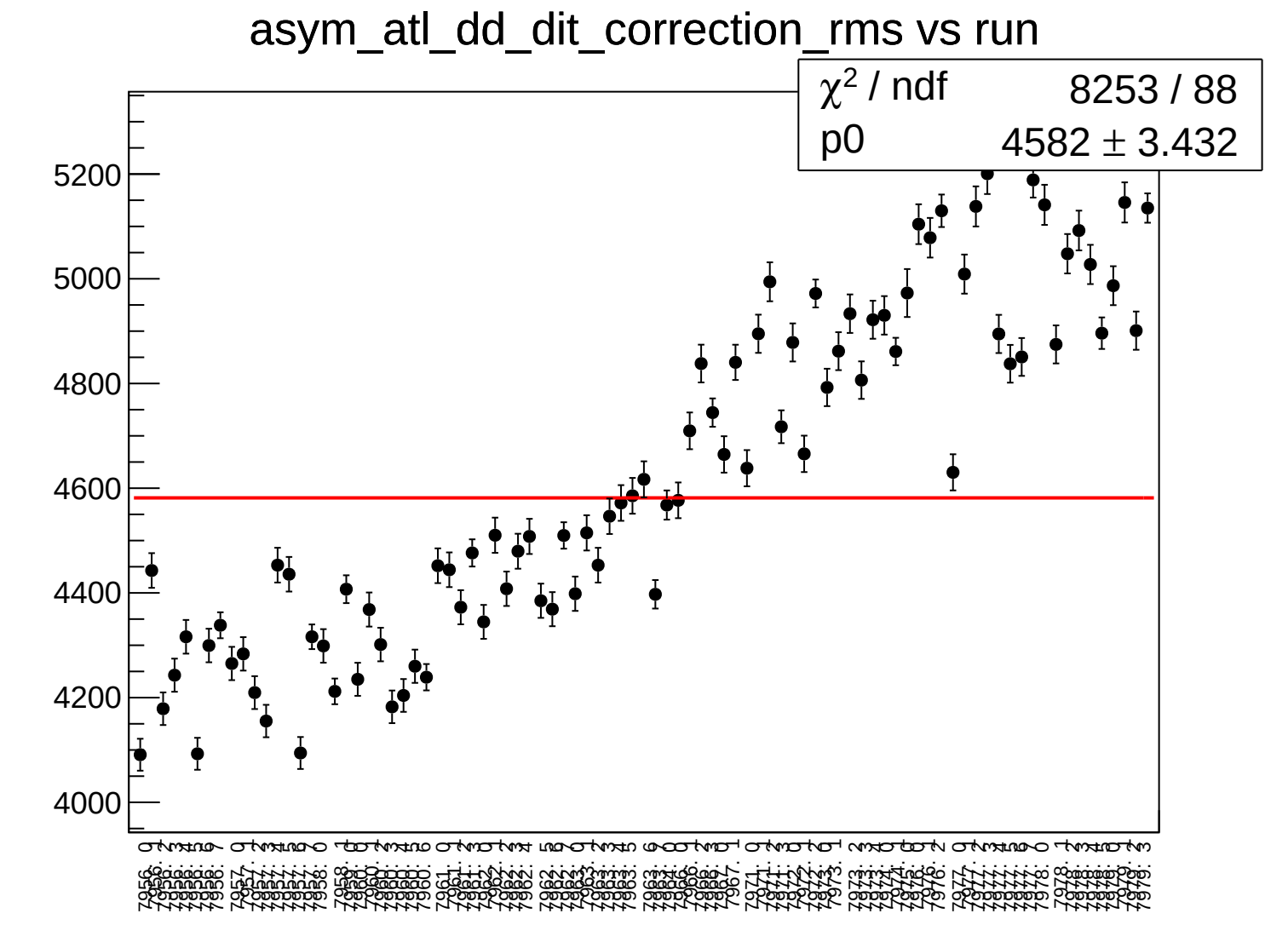

dit_asym_atl_dd_mean vs run
χ² / ndf 73.13 / 88
p0 236.8 ± 1708
pull
Entries 89
Mean −217.1
Std Dev 0

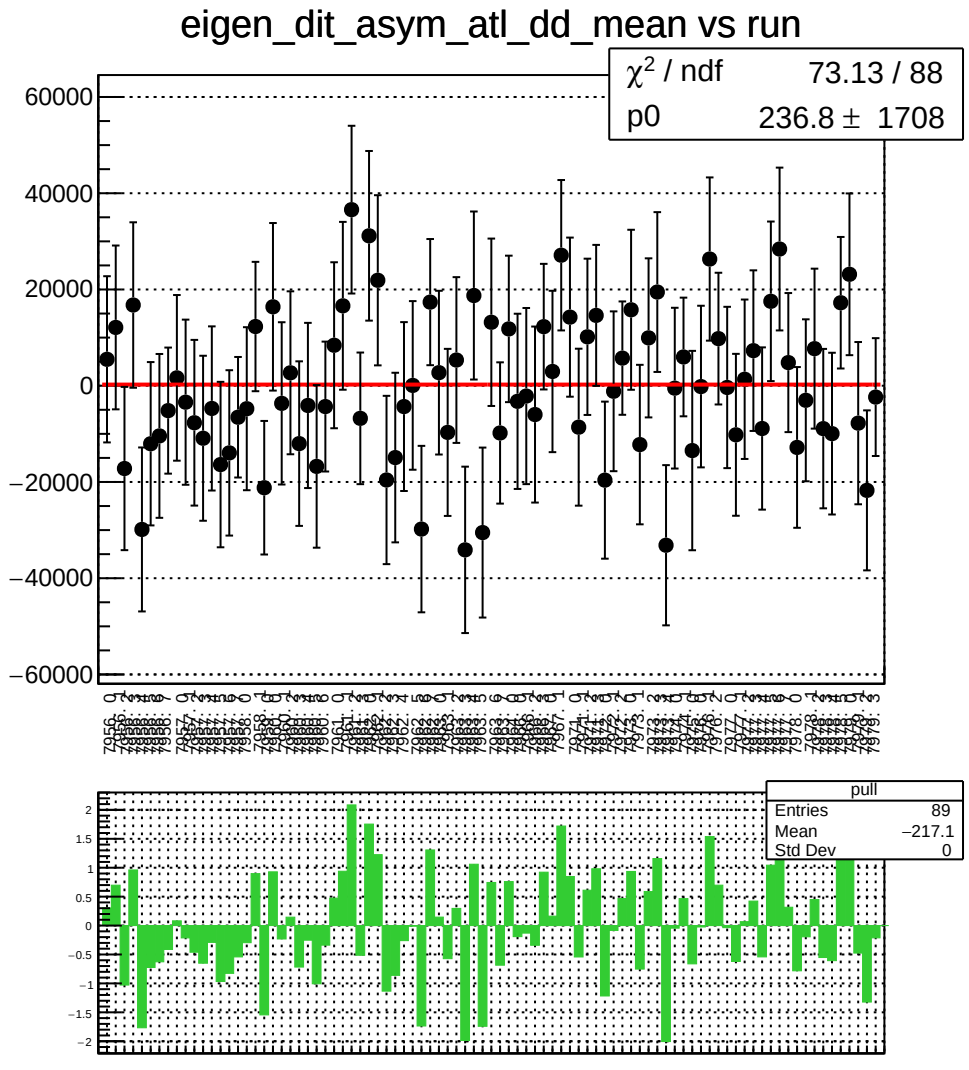

pull1D
Entries 89
Mean −0.01403
Std Dev 0.9064

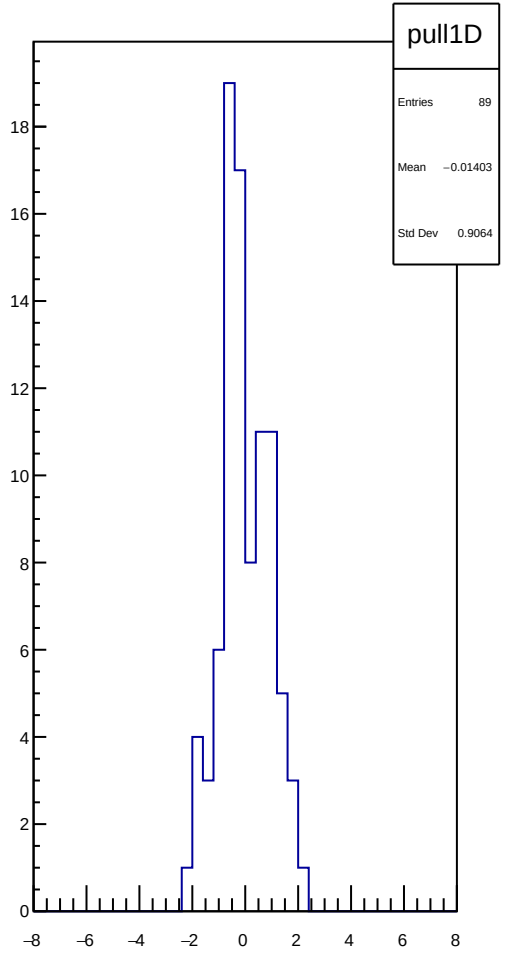

dit_asym_atl_dd_rms vs run
χ² / ndf 1198 / 88
p0 1616 ± 1.208
1750
1700
1650
1600
1550

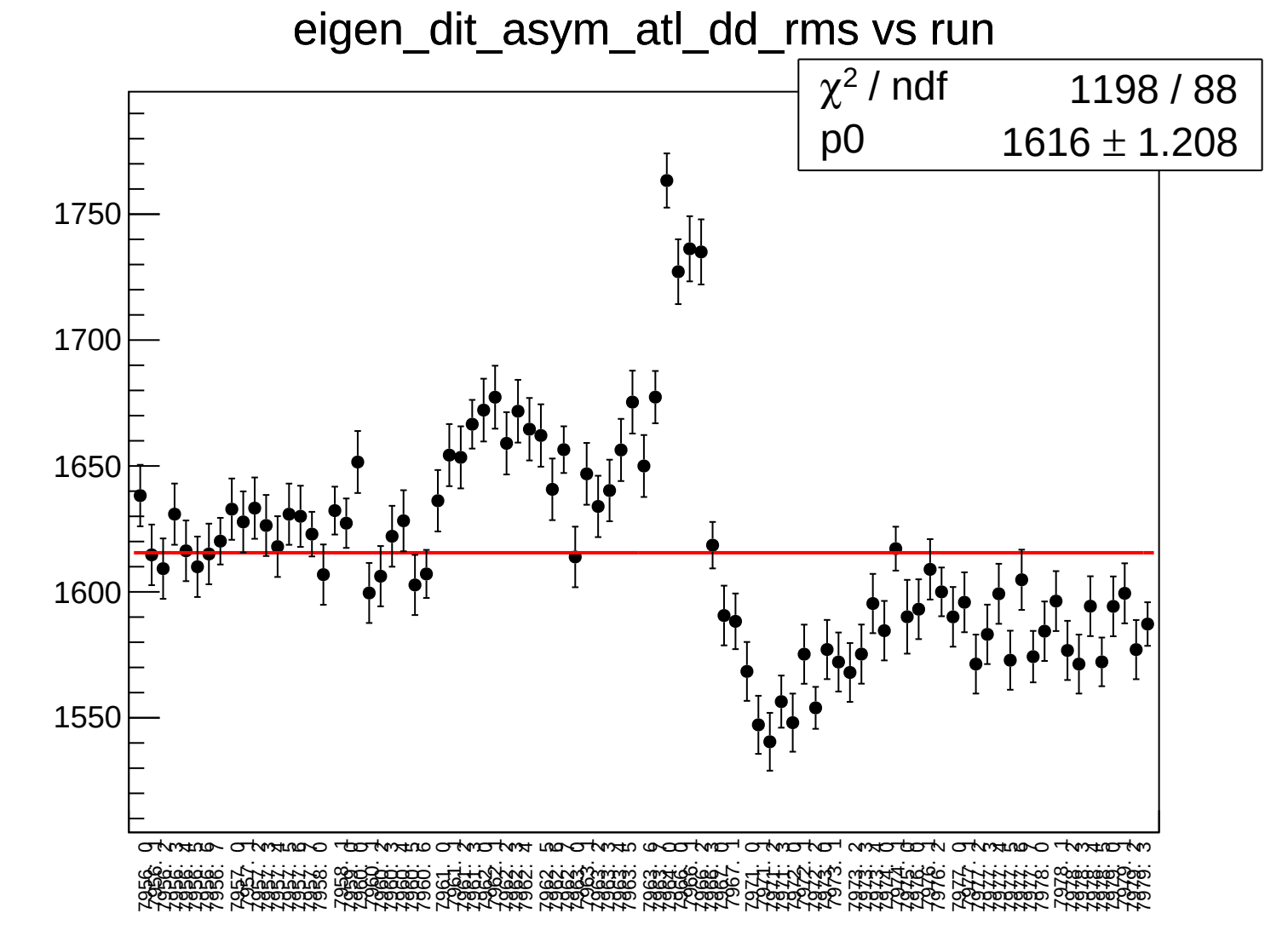

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 83.04 / 88
p0 −3919 ± 4853
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −604.2
Std Dev 0
2
1
0
−1
−2

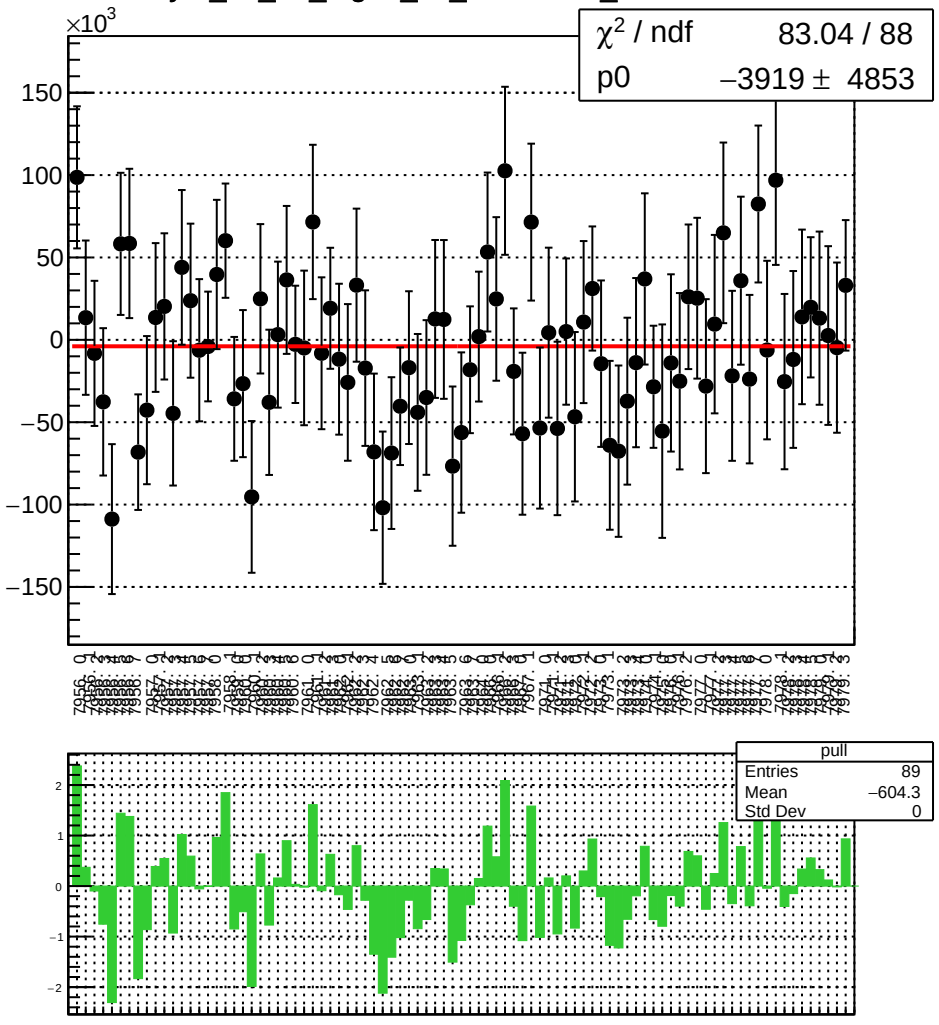

pull1D
Entries 89
Mean −0.002572
Std Dev 0.9659
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

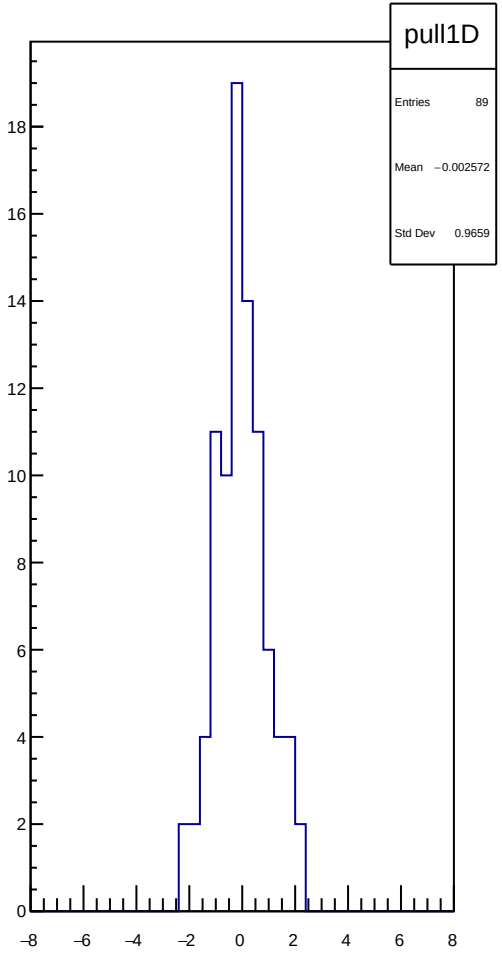

asym_atl_dd_dit_correction_rms vs run
$\chi^2$ / ndf 8253 / 88
p0 4582 ± 3.432
5200
5000
4800
4600
4400
4200
4000

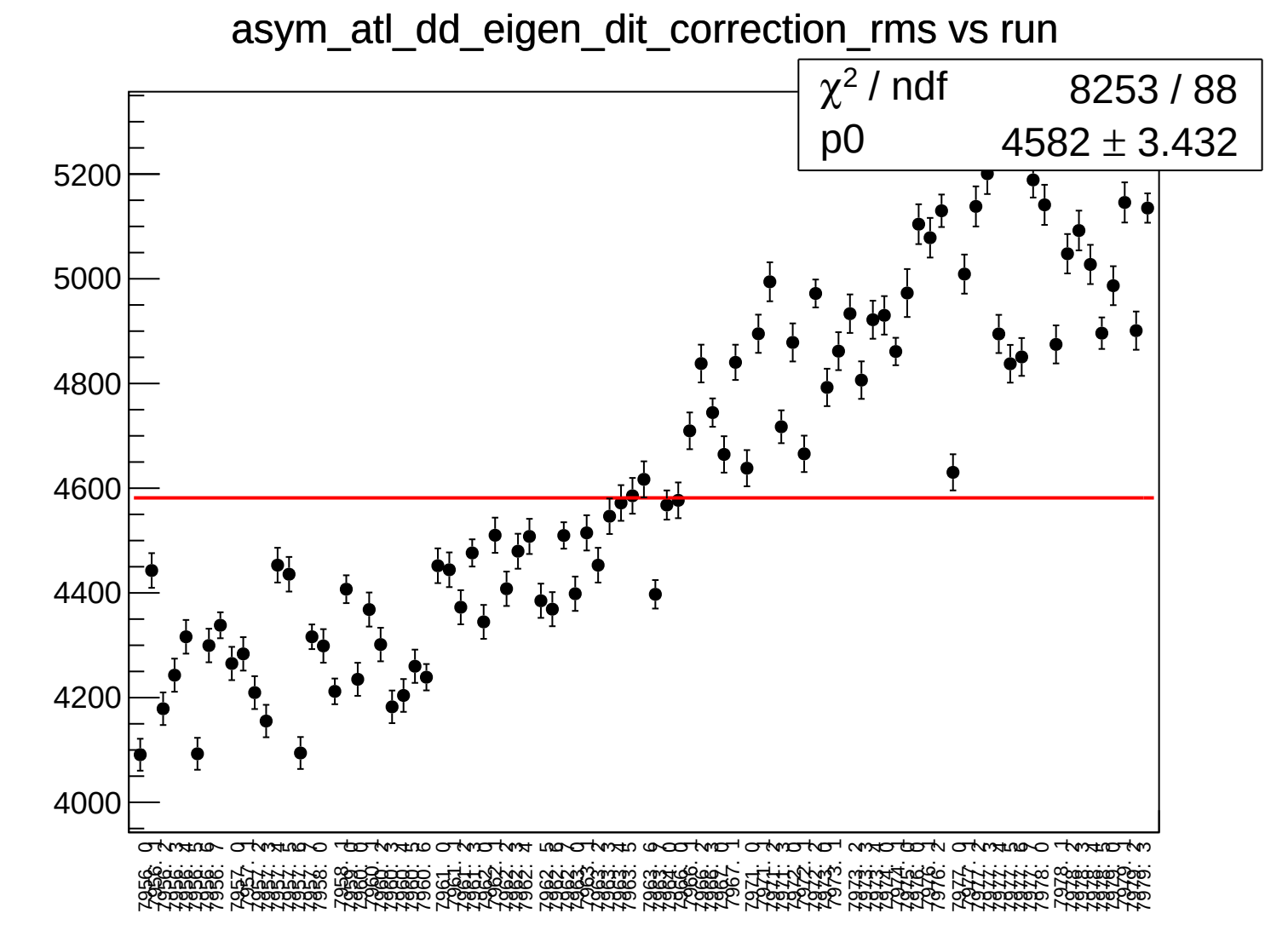

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 73.13 / 88
p0 236.8 ± 1708
pull
Entries 89
Mean −217.1
Std Dev 0

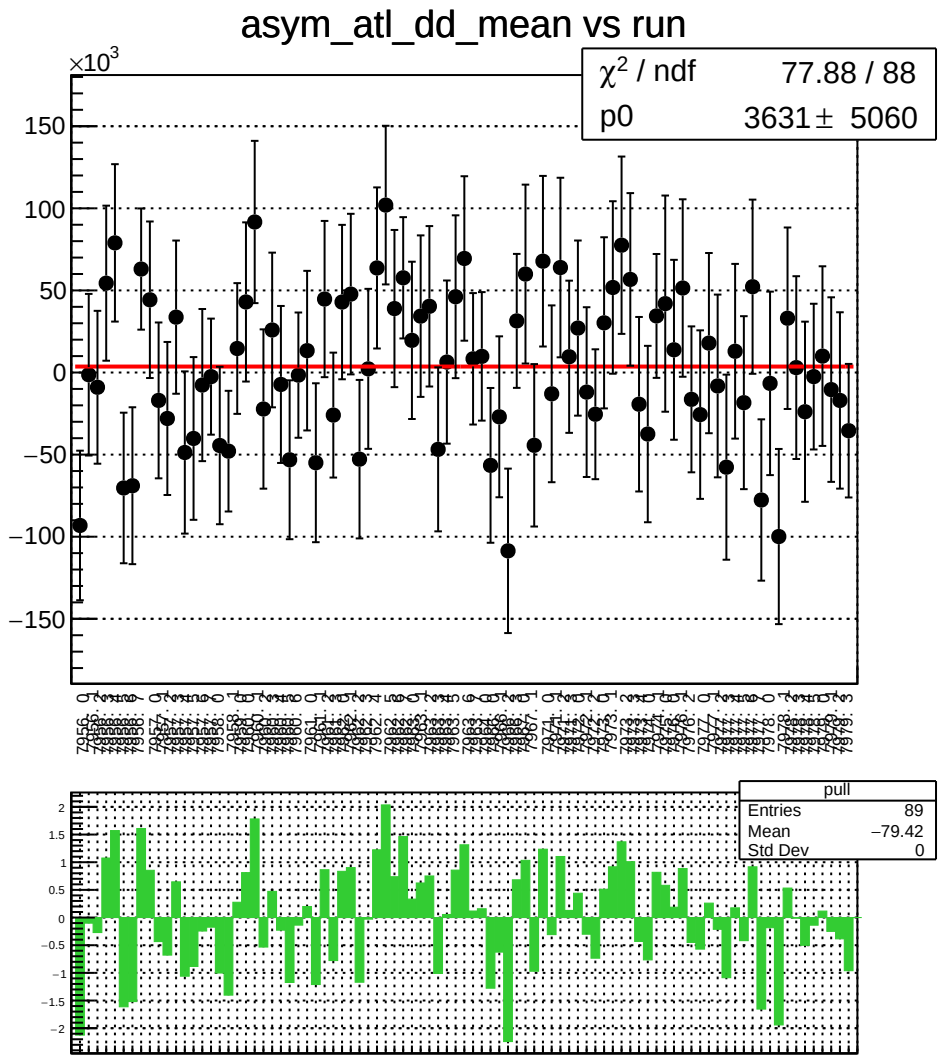

pull1D
Entries 89
Mean −0.01403
Std Dev 0.9064

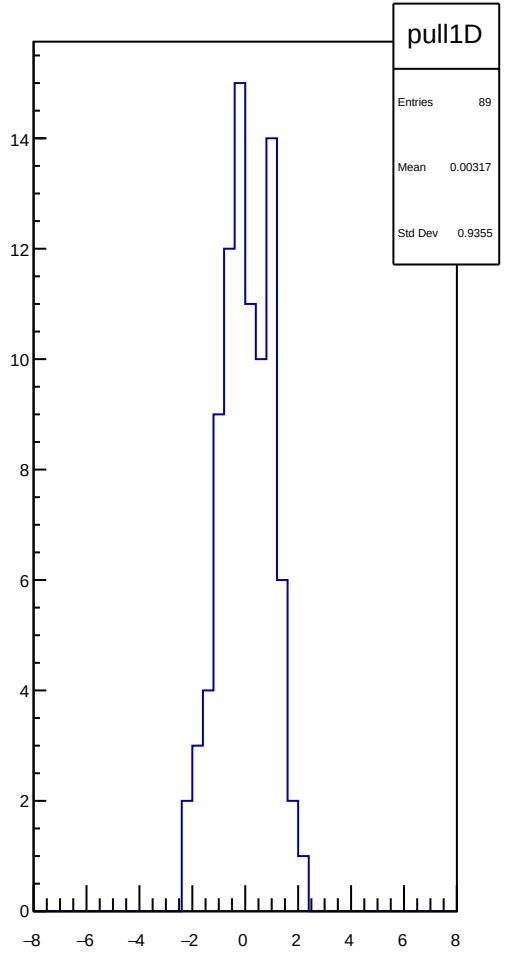

eigen_dit_asym_atl_dd_rms vs run
$\chi^2$ / ndf 1198 / 88
p0 1616 ± 1.208
1750
1700
1650
1600
1550

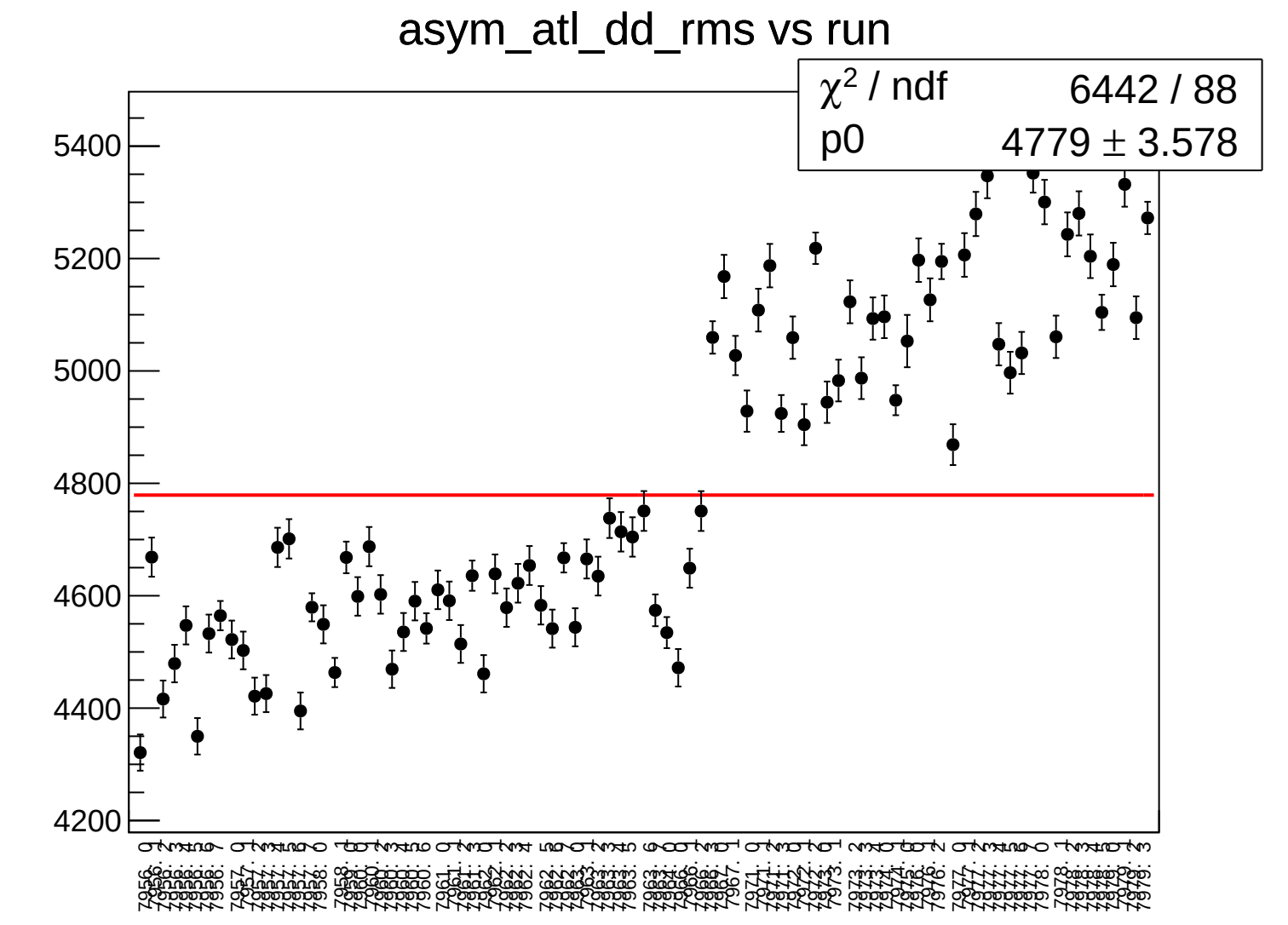

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.04 / 88
p0 −3919 ± 4853
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −604.3
Std Dev 0
2
1
0
−1
−2

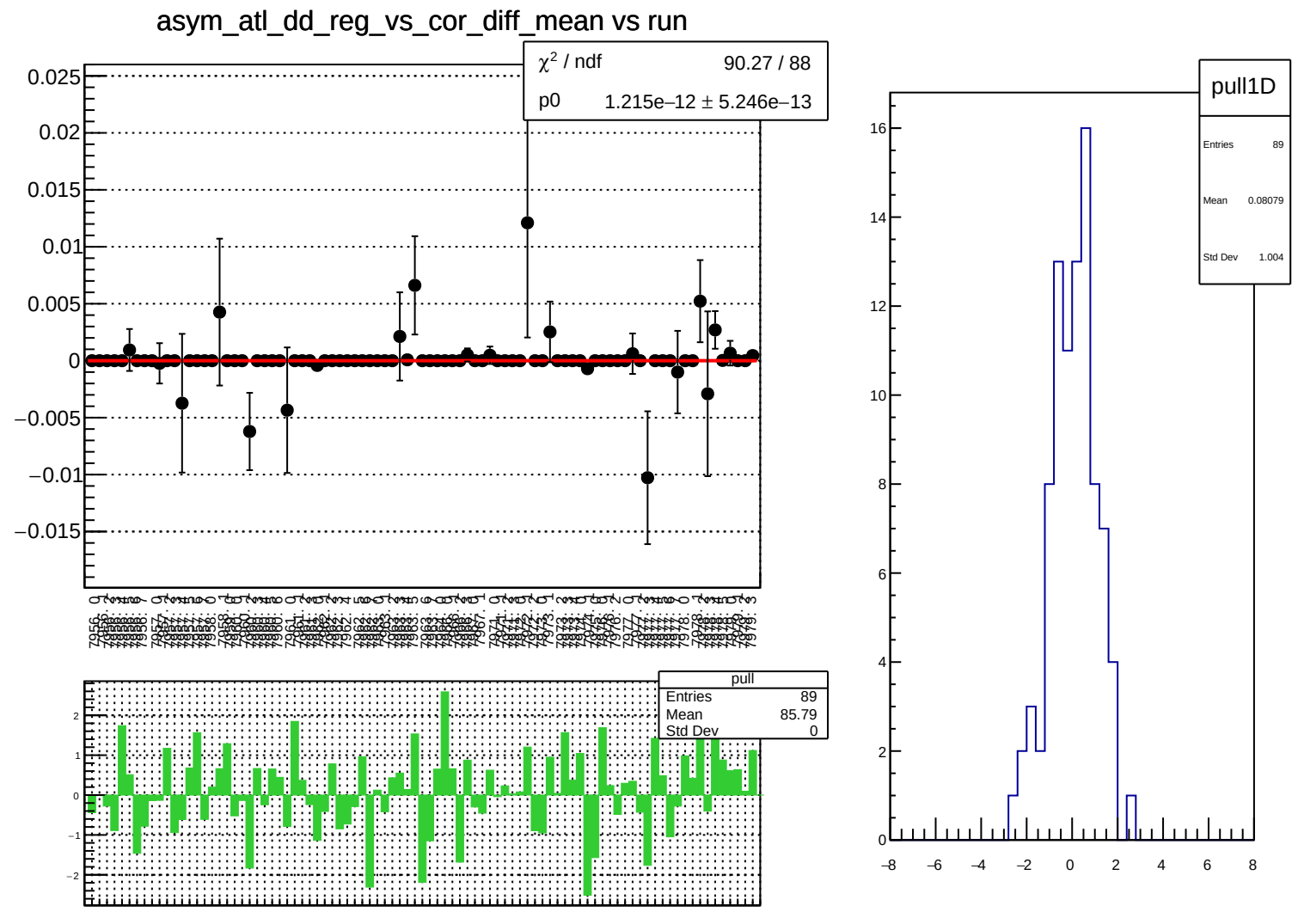

pull1D
Entries 89
Mean −0.002572
Std Dev 0.9659
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

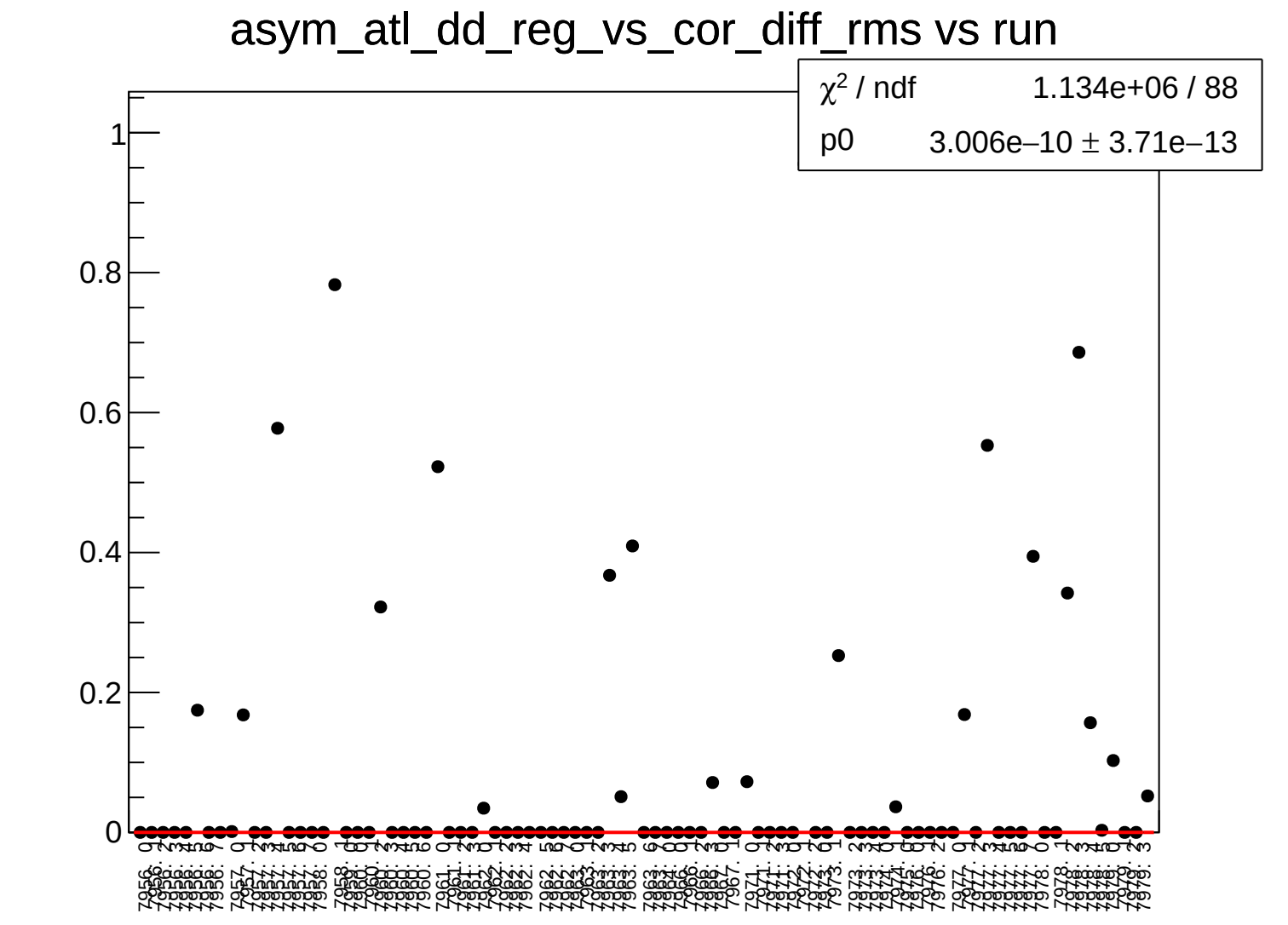

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 8253 / 88
p0 4582 ± 3.432
5200
5000
4800
4600
4400
4200
4000

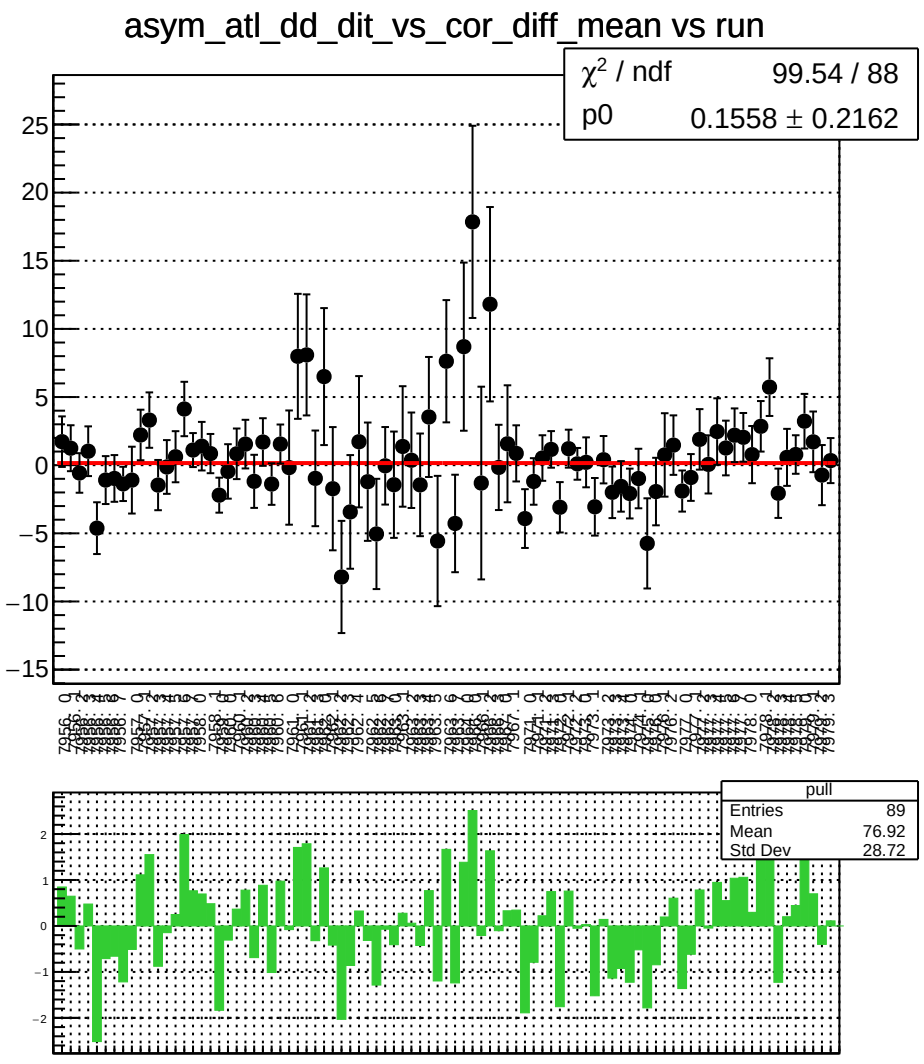

asym_atl_dd_mean vs run
×10^3
χ² / ndf 77.88 / 88
p0 3631 ± 5060
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −79.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

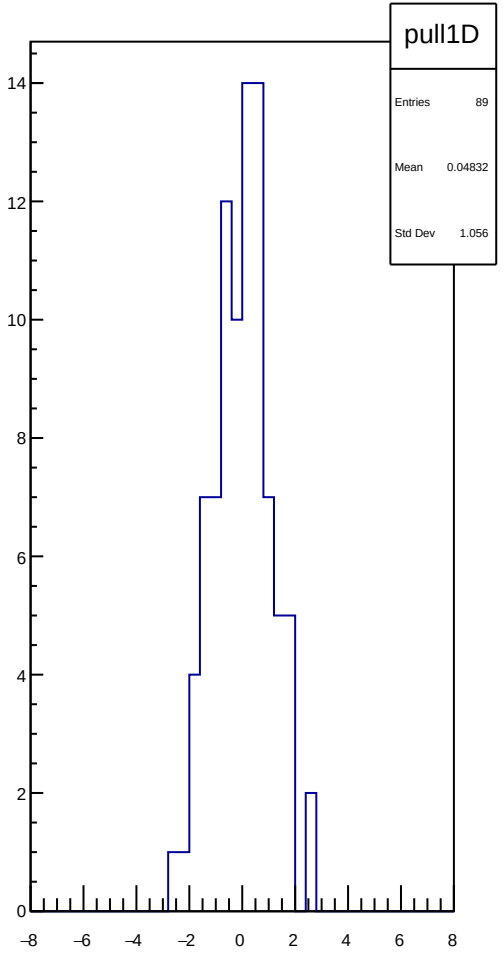

pull1D
Entries 89
Mean 0.00317
Std Dev 0.9355
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

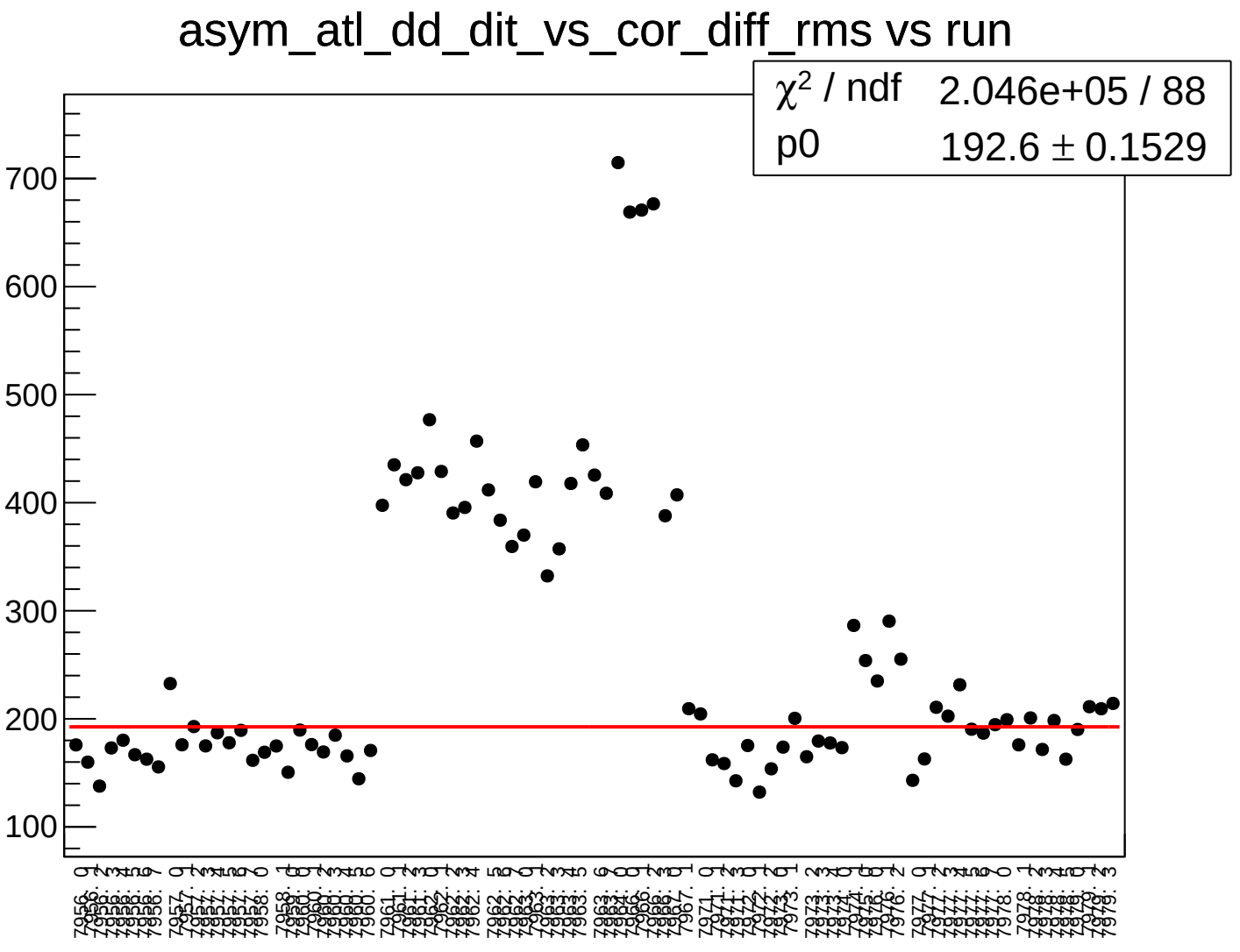

asym_atl_dd_rms vs run
χ² / ndf 6442 / 88
p0 4779 ± 3.578
5400
5200
5000
4800
4600
4400
4200

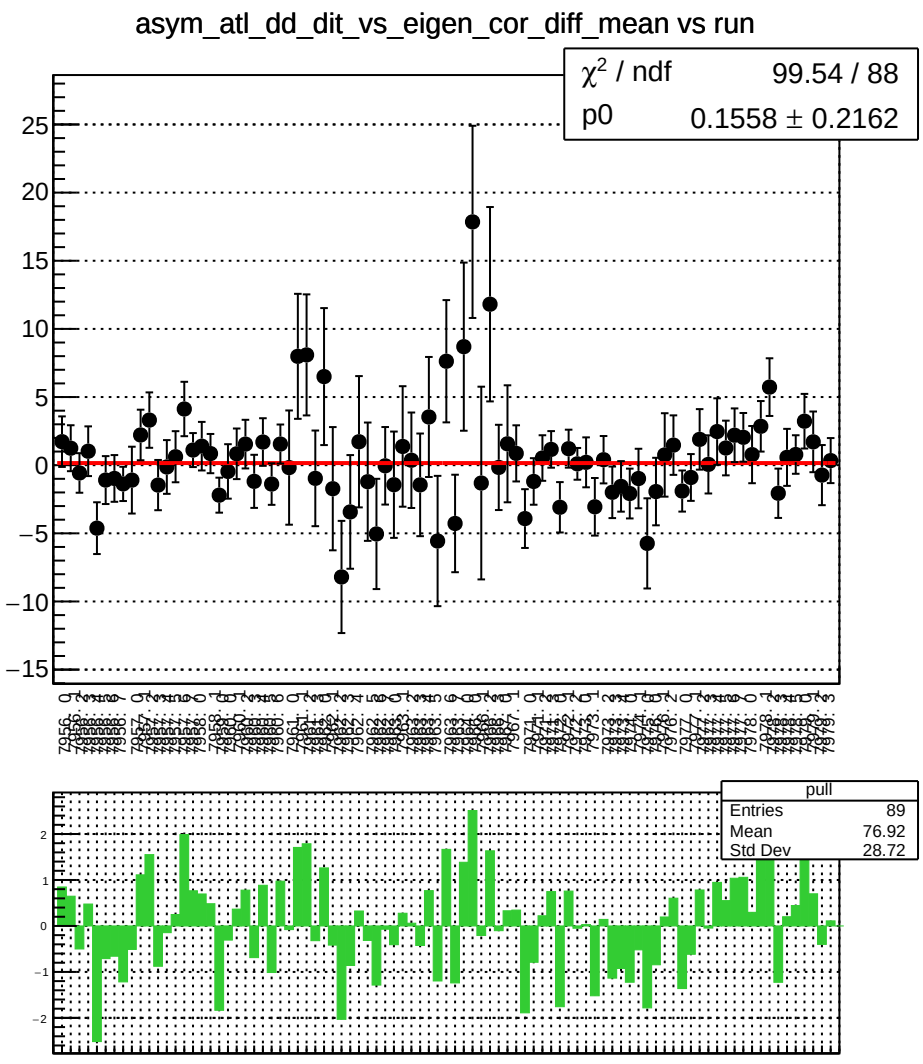

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.27 / 88
p0 1.215e−12 ± 5.246e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 85.79
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.08079
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

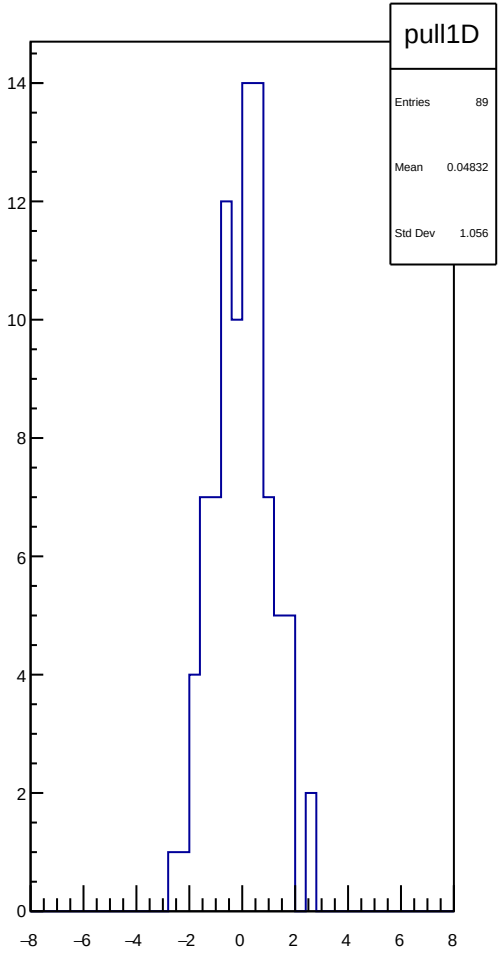

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.134e+06 / 88
p0 3.006e−10 ± 3.71e−13
1
0.8
0.6
0.4
0.2
0

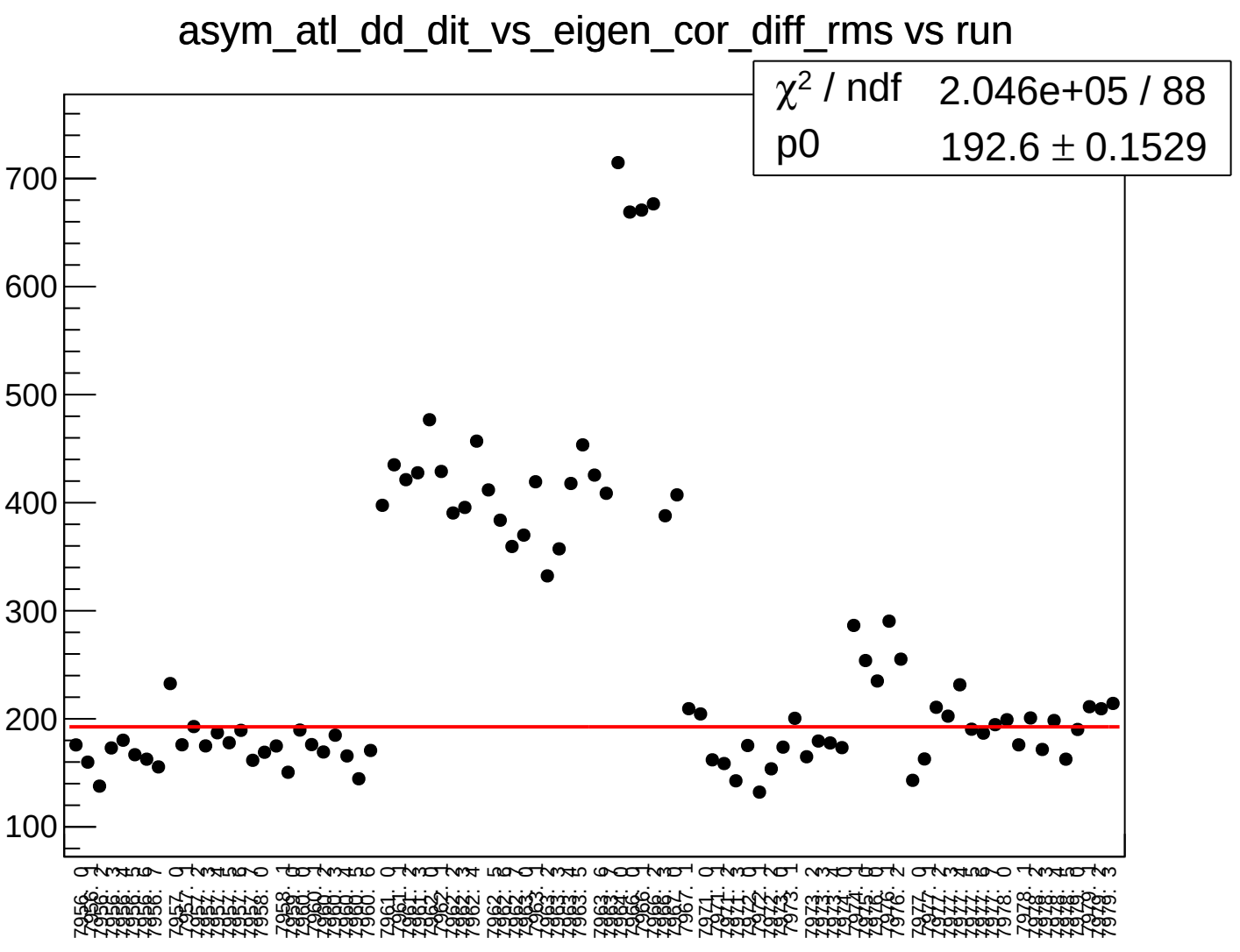

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.54 / 88
p0 0.1558 ± 0.2162
pull
Entries 89
Mean 76.92
Std Dev 28.72

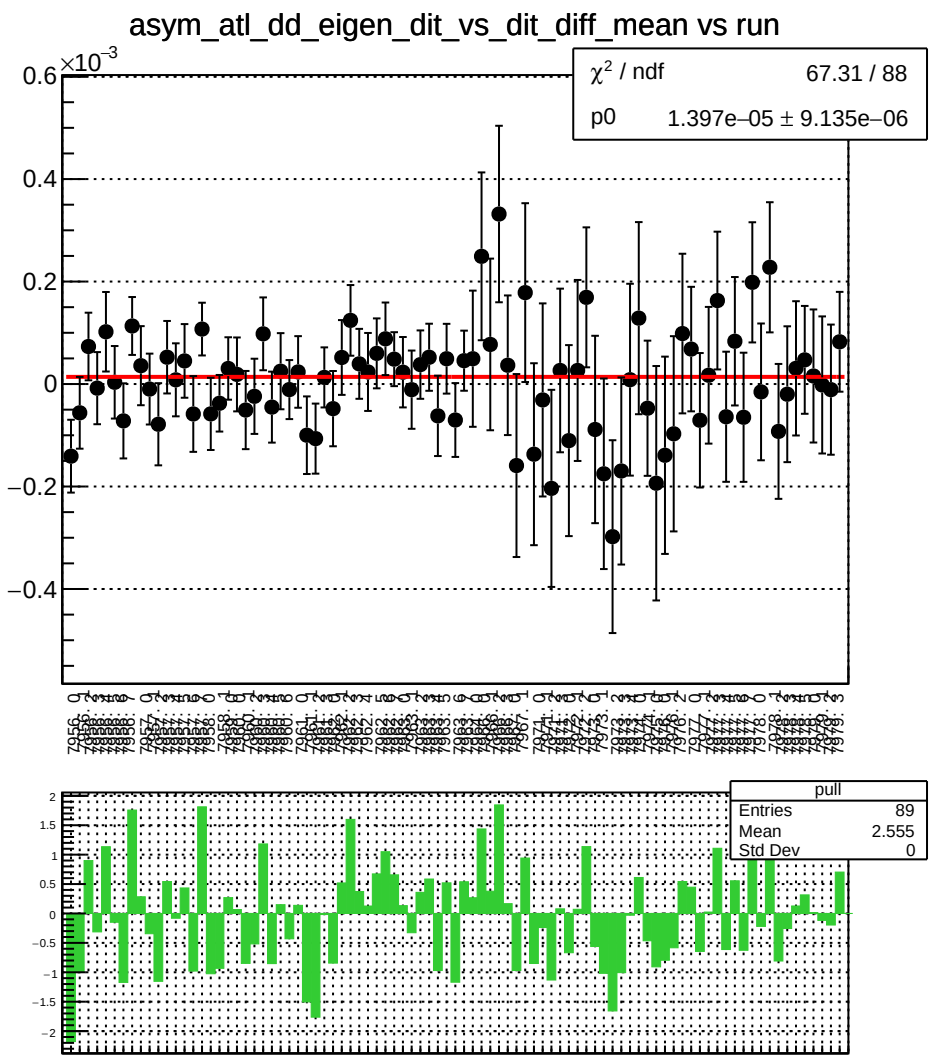

pull1D
Entries 89
Mean 0.04832
Std Dev 1.056

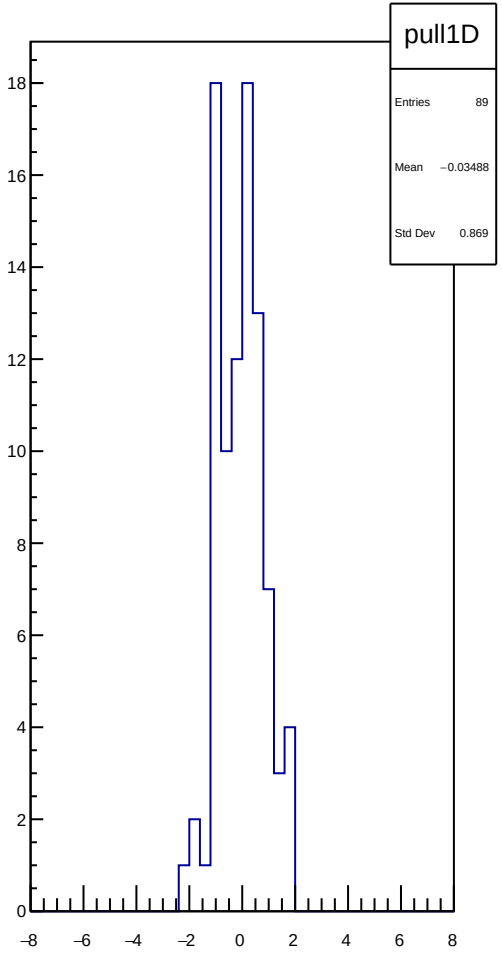

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.046e+05 / 88
p0 192.6 ± 0.1529
700
600
500
400
300
200
100

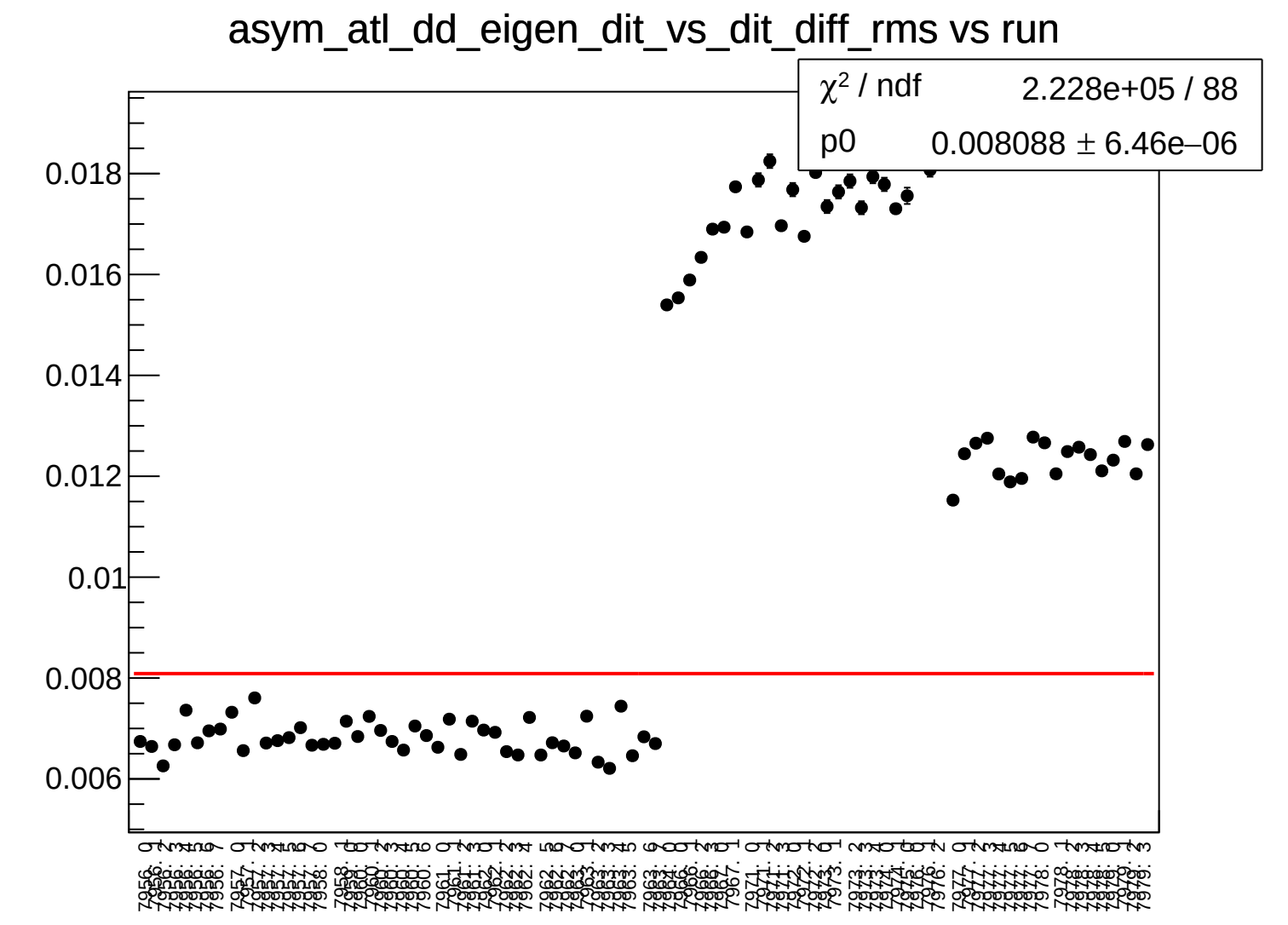

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.54 / 88
p0 0.1558 ± 0.2162
pull
Entries 89
Mean 76.92
Std Dev 28.72

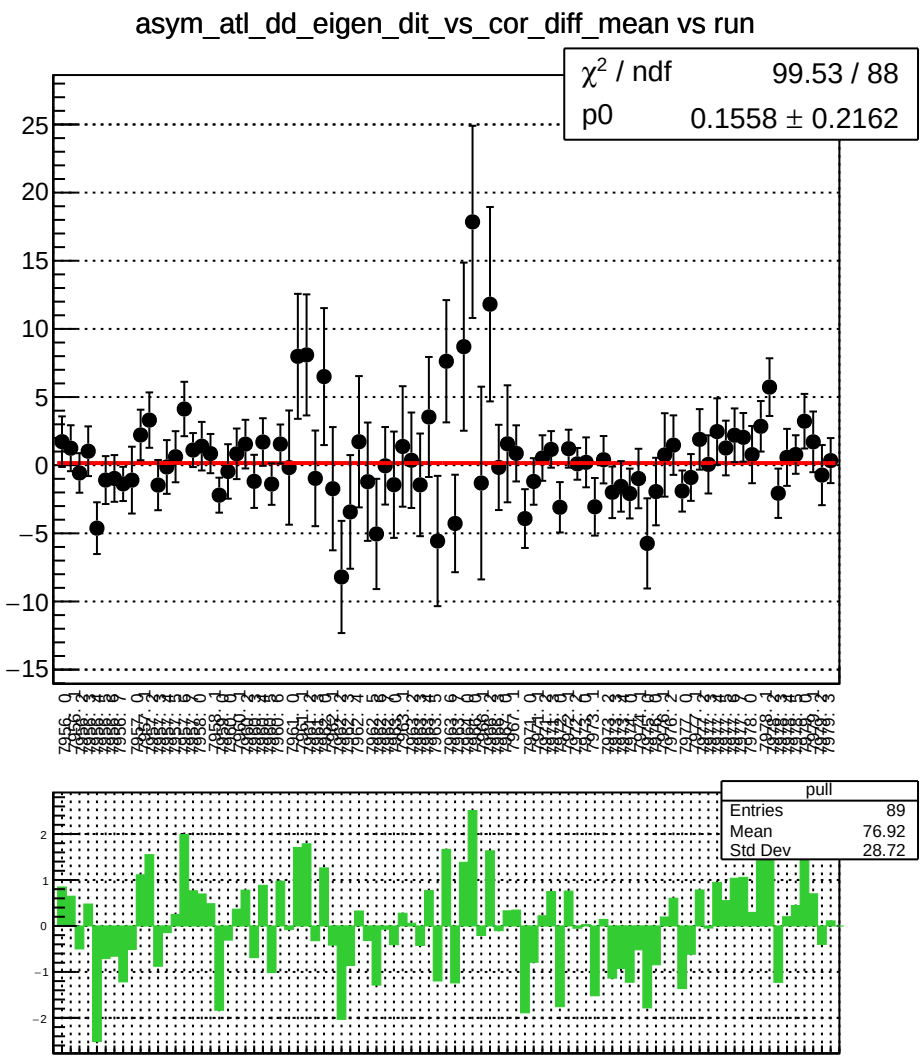

pull1D
Entries 89
Mean 0.04832
Std Dev 1.056

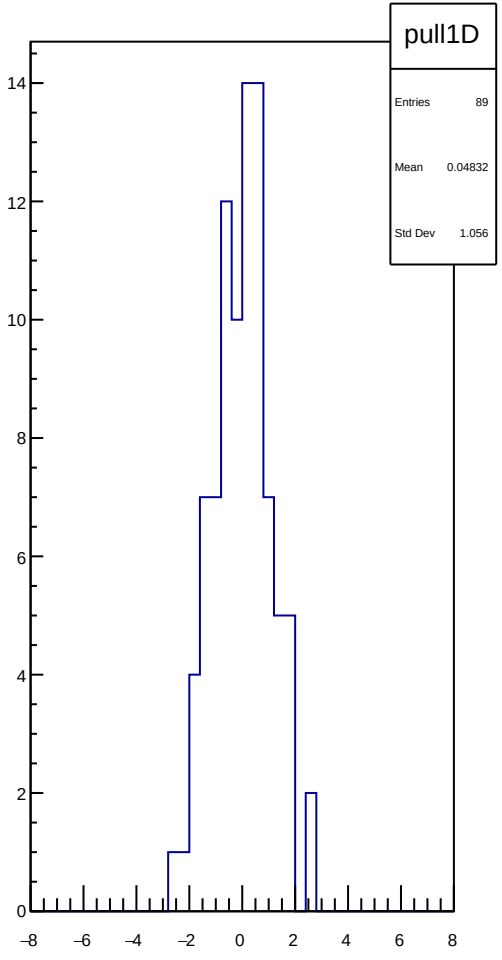

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.046e+05 / 88
p0 192.6 ± 0.1529
700
600
500
400
300
200
100

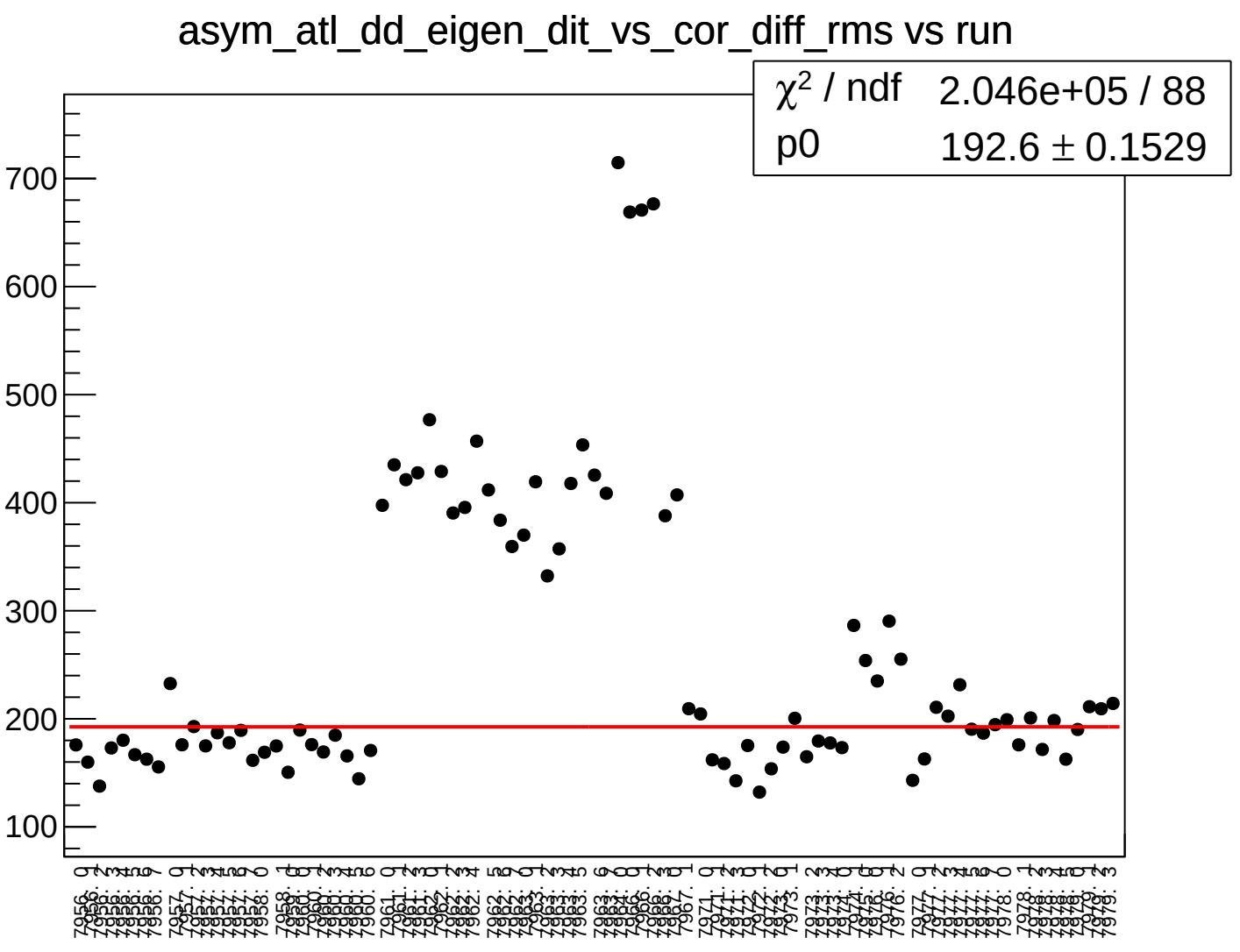

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.31 / 88
p0 1.397e−05 ± 9.135e−06
pull
Entries 89
Mean 2.555
Std Dev 0

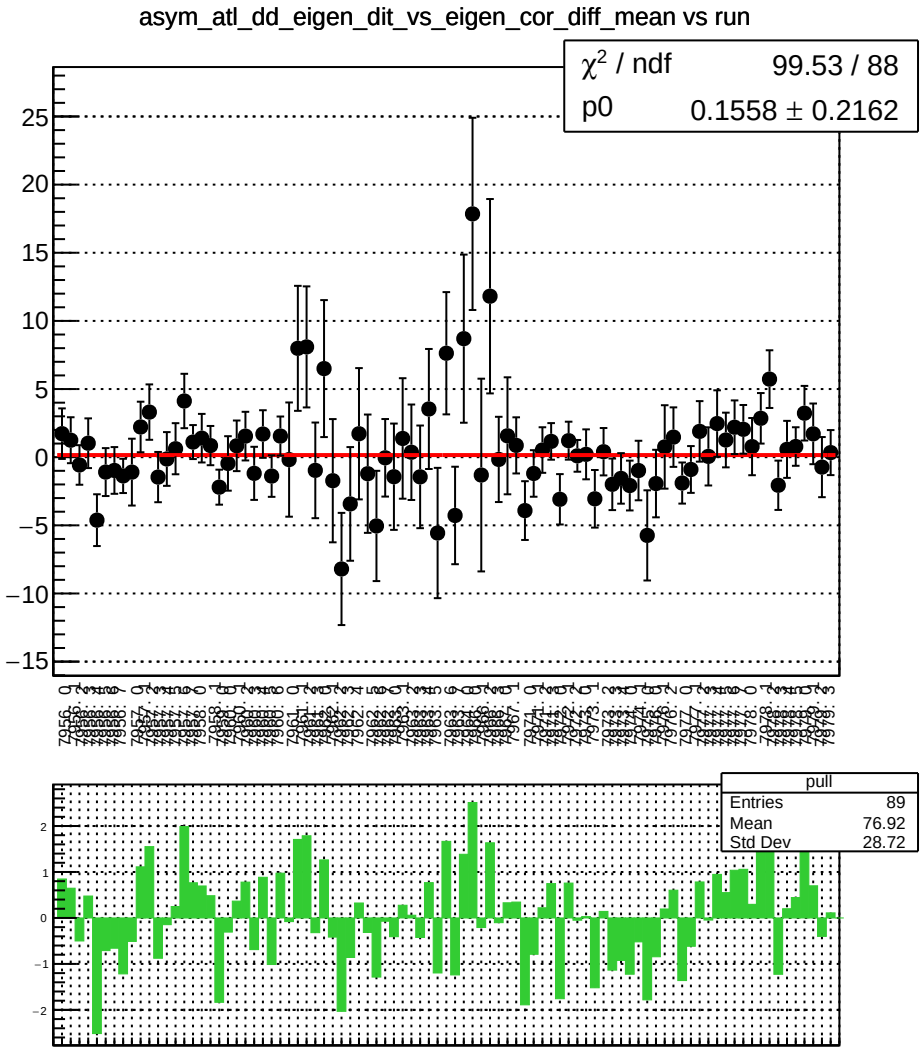

pull1D
Entries 89
Mean −0.03488
Std Dev 0.869

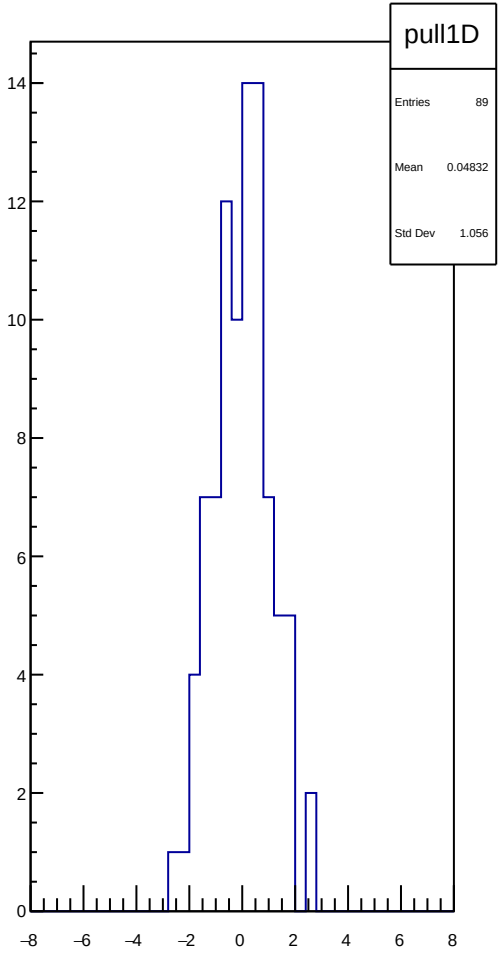

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.228e+05 / 88
p0 0.008088 ± 6.46e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

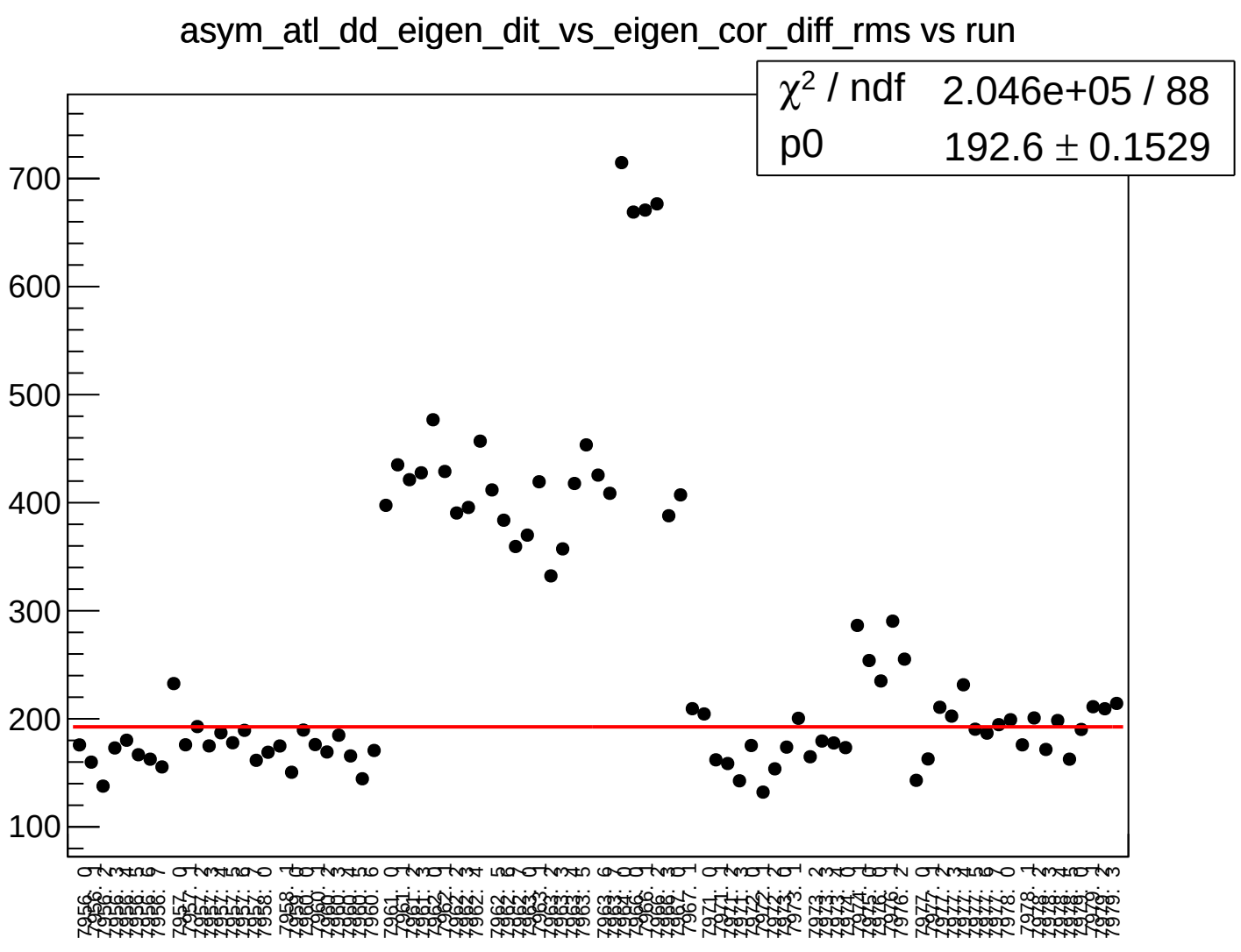

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.53 / 88
p0 0.1558 ± 0.2162
pull
Entries 89
Mean 76.92
Std Dev 28.72

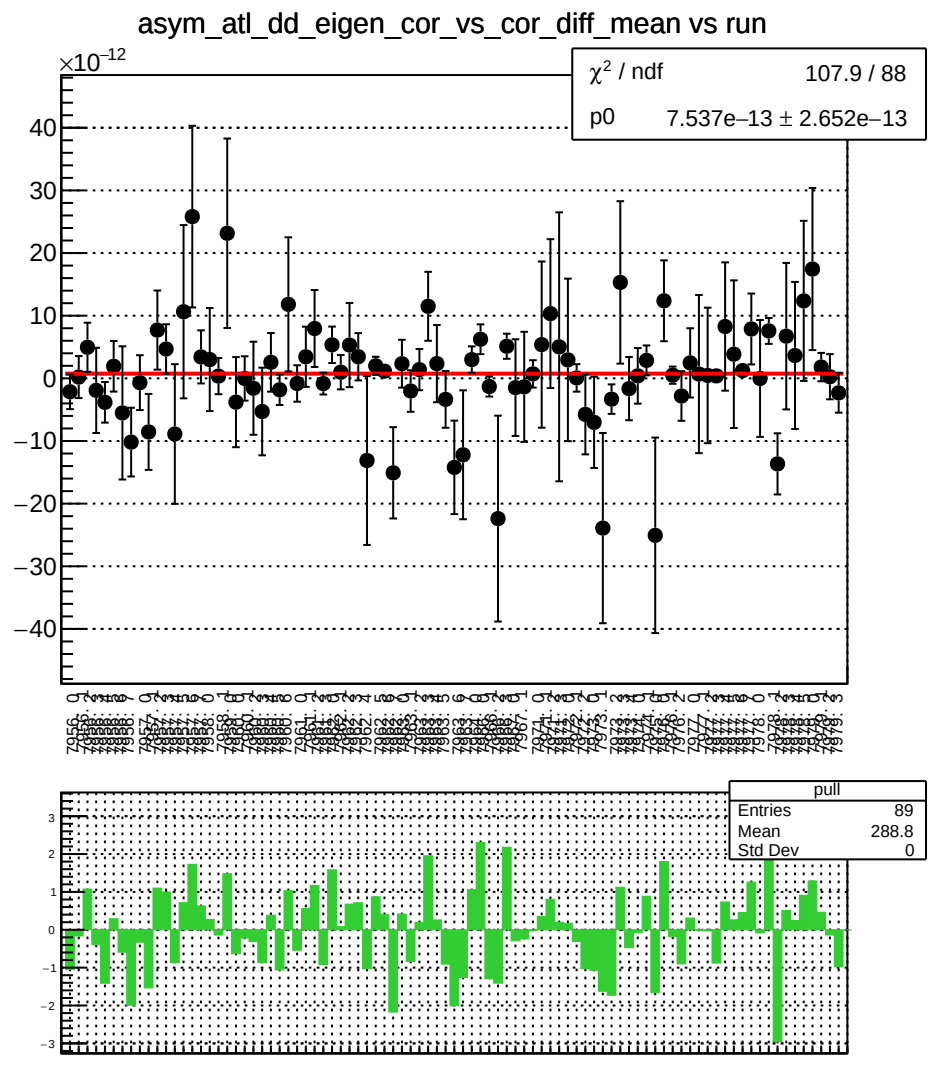

pull1D
Entries 89
Mean 0.04832
Std Dev 1.056

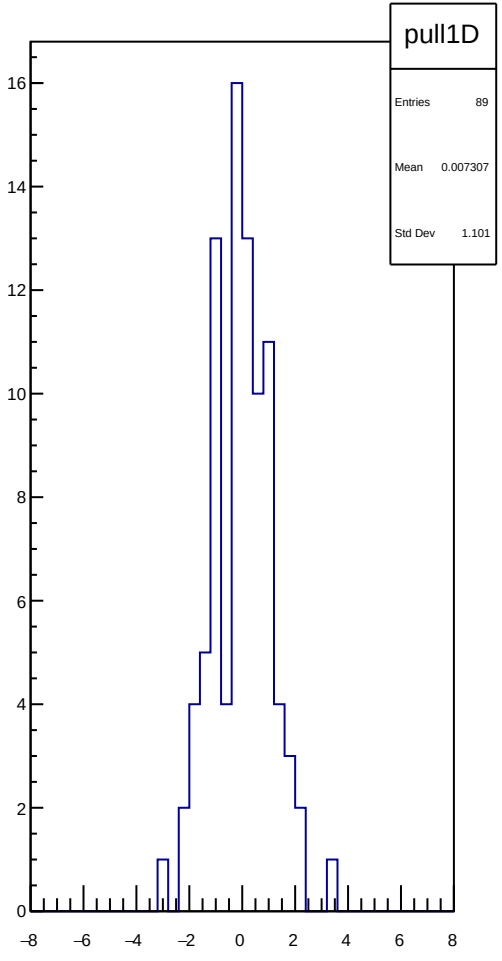

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.046e+05 / 88
p0 192.6 ± 0.1529
700
600
500
400
300
200
100

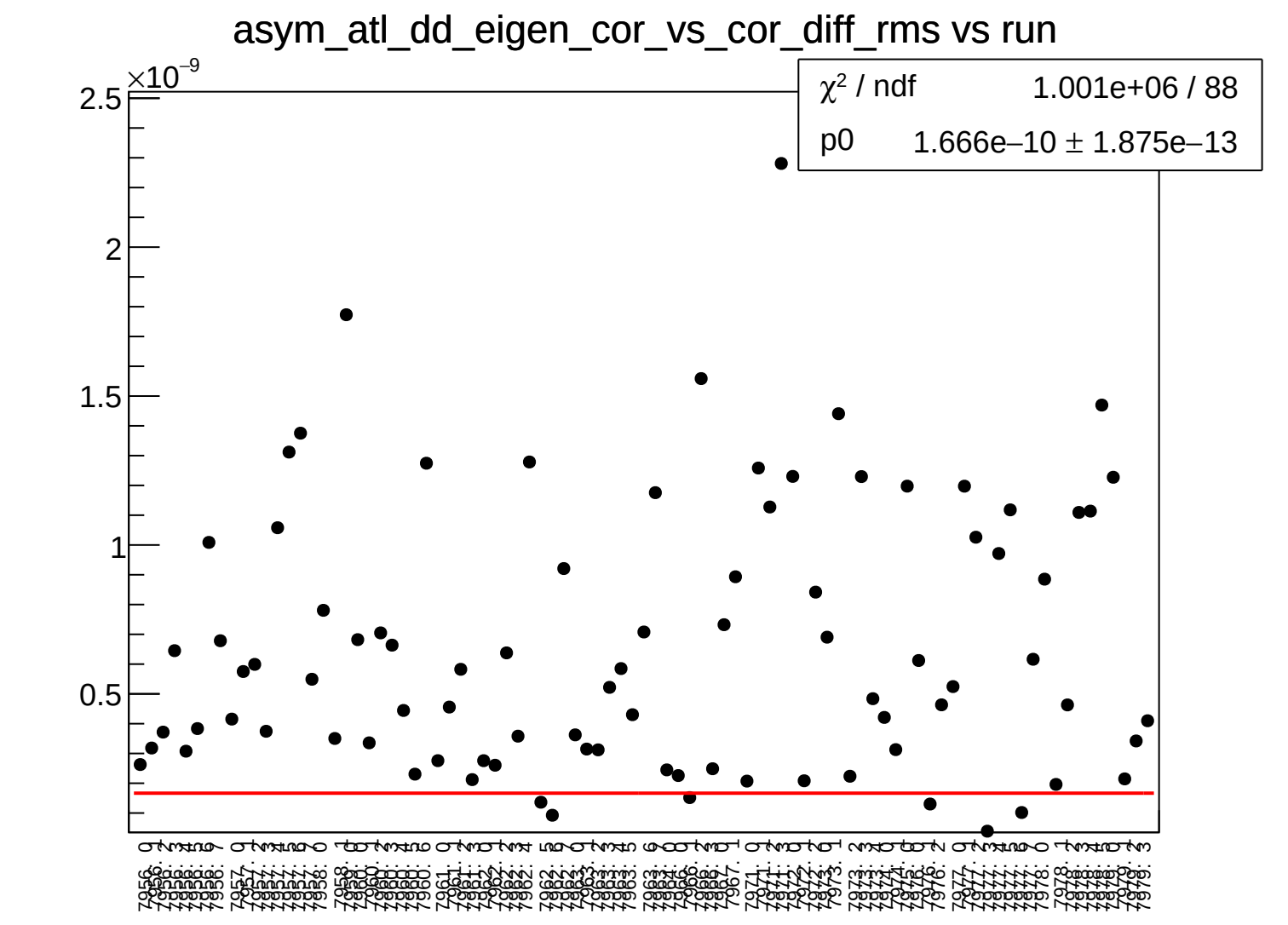

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.53 / 88
p0 0.1558 ± 0.2162
pull
Entries 89
Mean 76.92
Std Dev 28.72

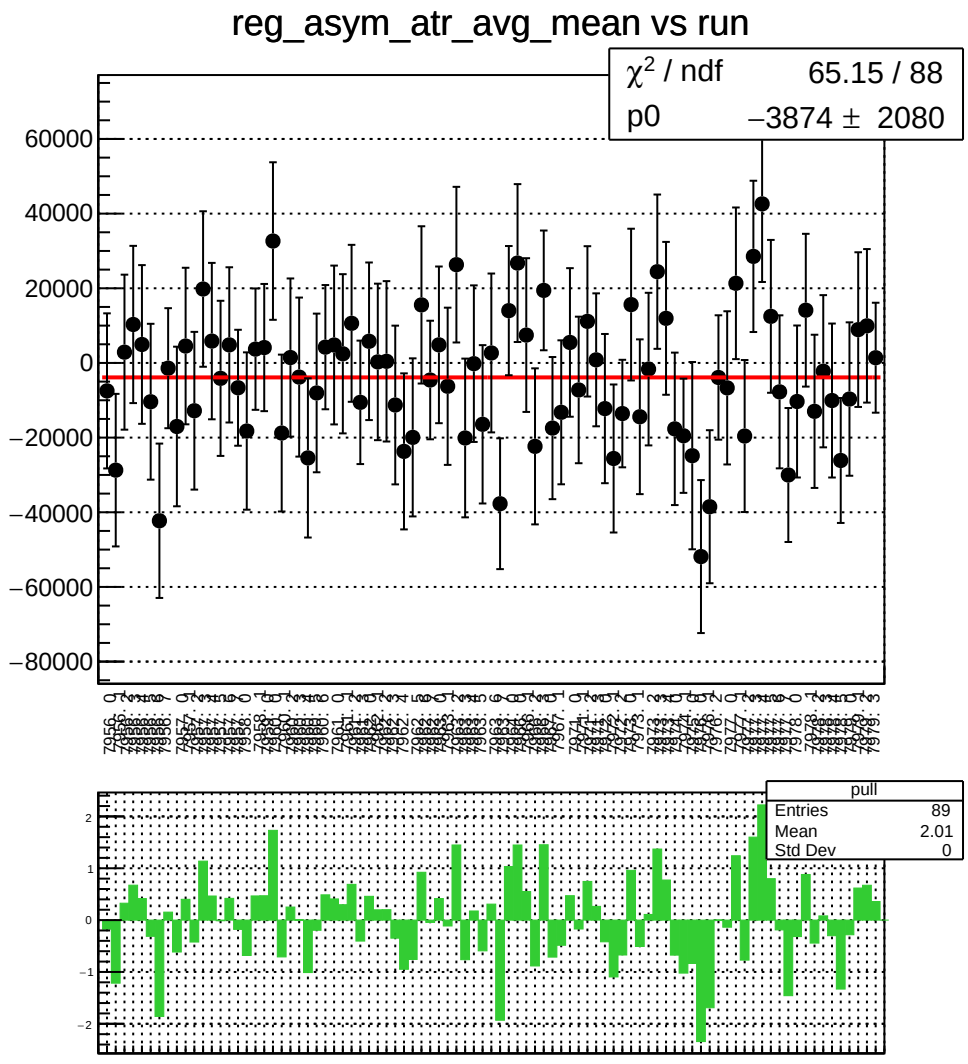

pull1D
Entries 89
Mean 0.04832
Std Dev 1.056

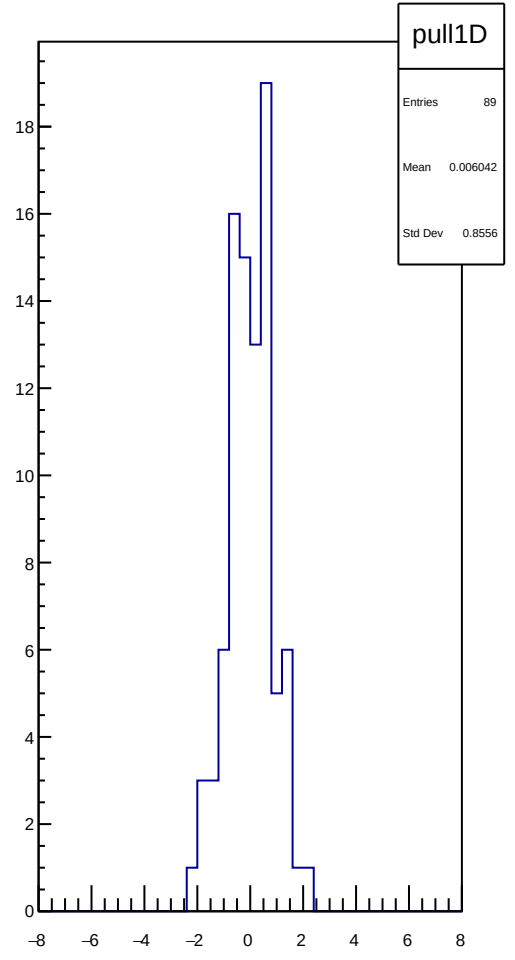

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.046e+05 / 88
p0 192.6 ± 0.1529
700
600
500
400
300
200
100

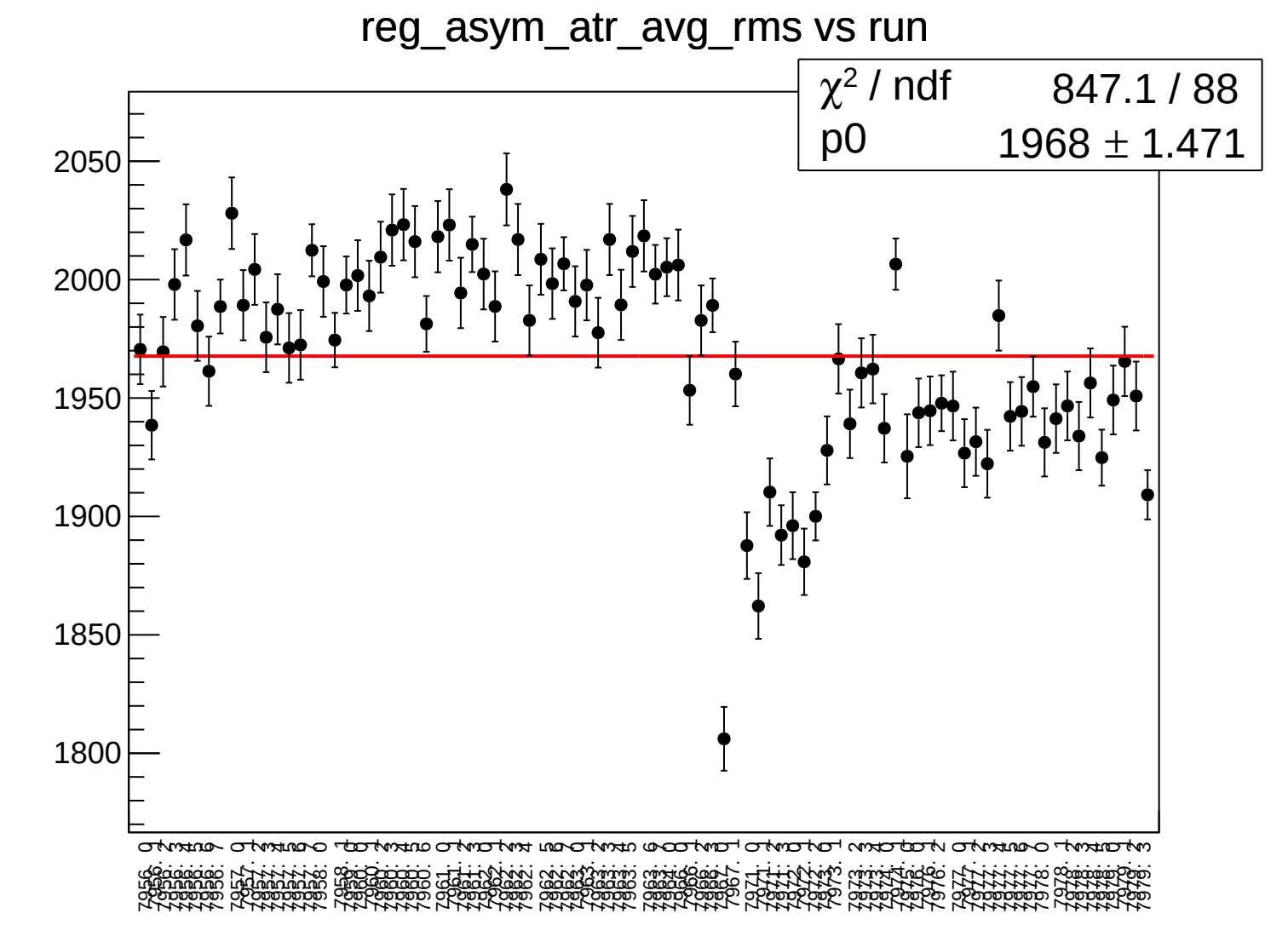

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.9 / 88
p0 7.537e−13 ± 2.652e−13
pull
Entries 89
Mean 288.8
Std Dev 0

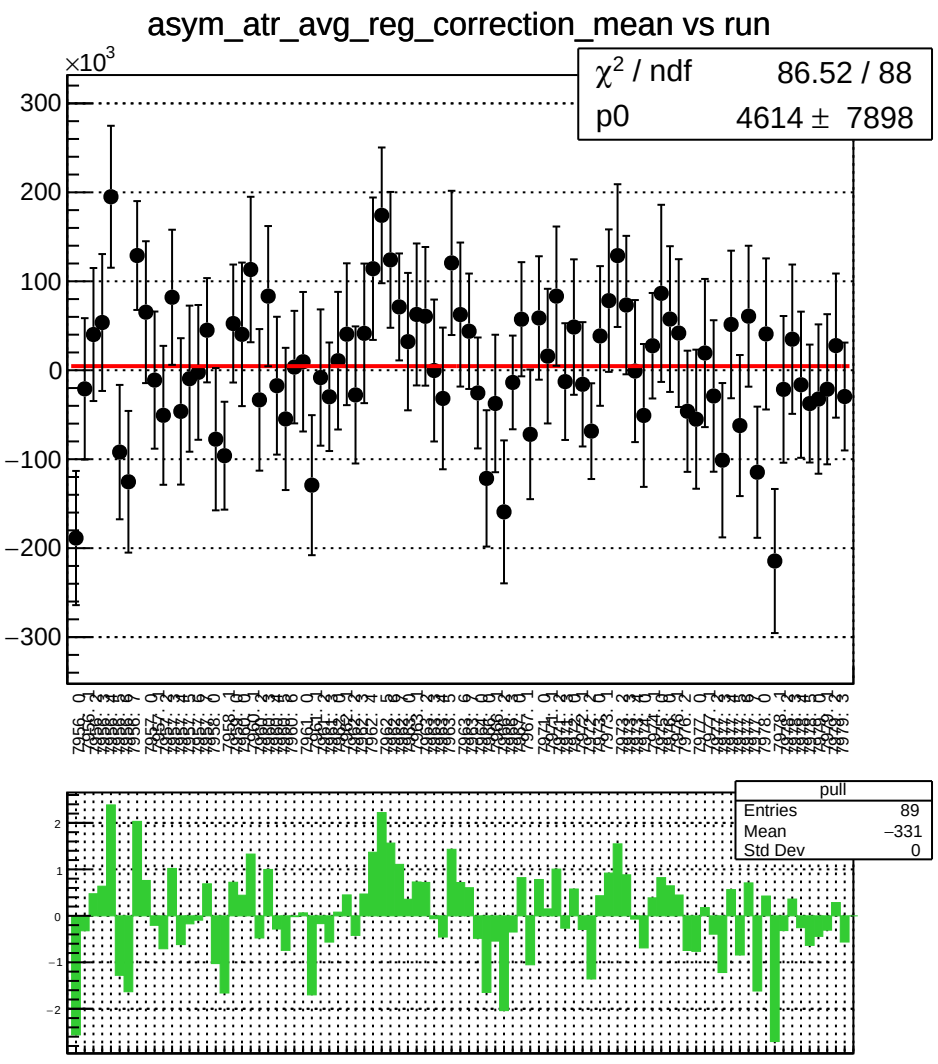

pull1D
Entries 89
Mean 0.007307
Std Dev 1.101

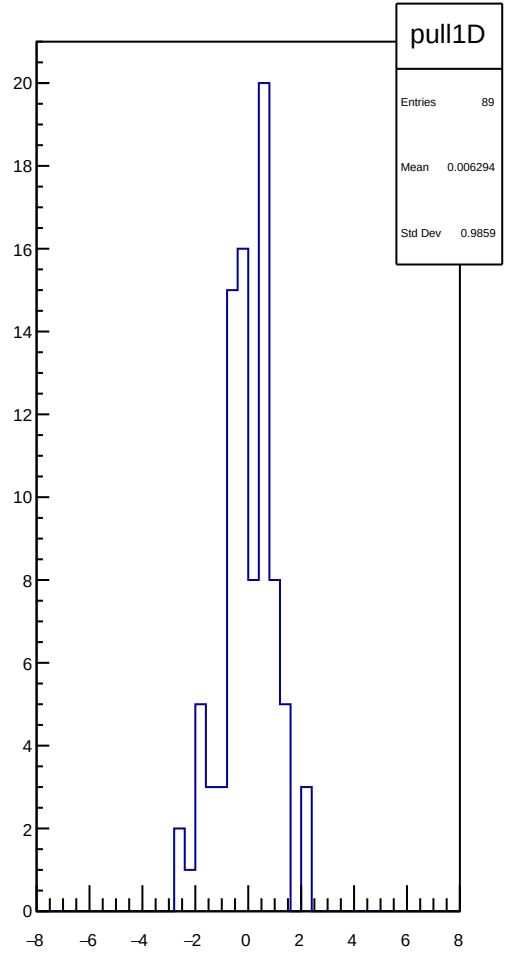

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 1.001e+06 / 88
p0 1.666e−10 ± 1.875e−13

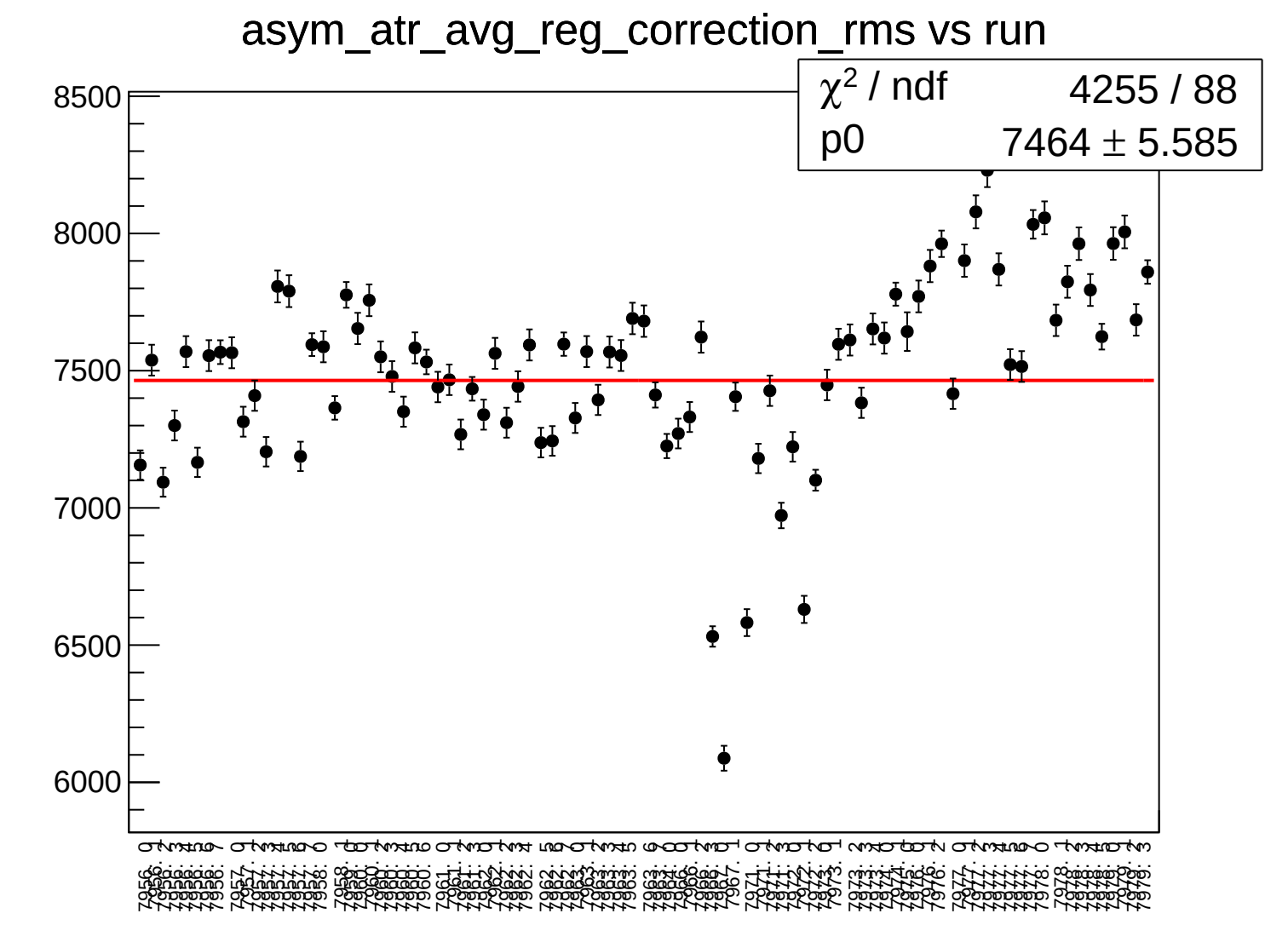

reg_asym_atr_avg_mean vs run
χ² / ndf 65.15 / 88
p0 −3874 ± 2080
pull
Entries 89
Mean 2.01
Std Dev 0

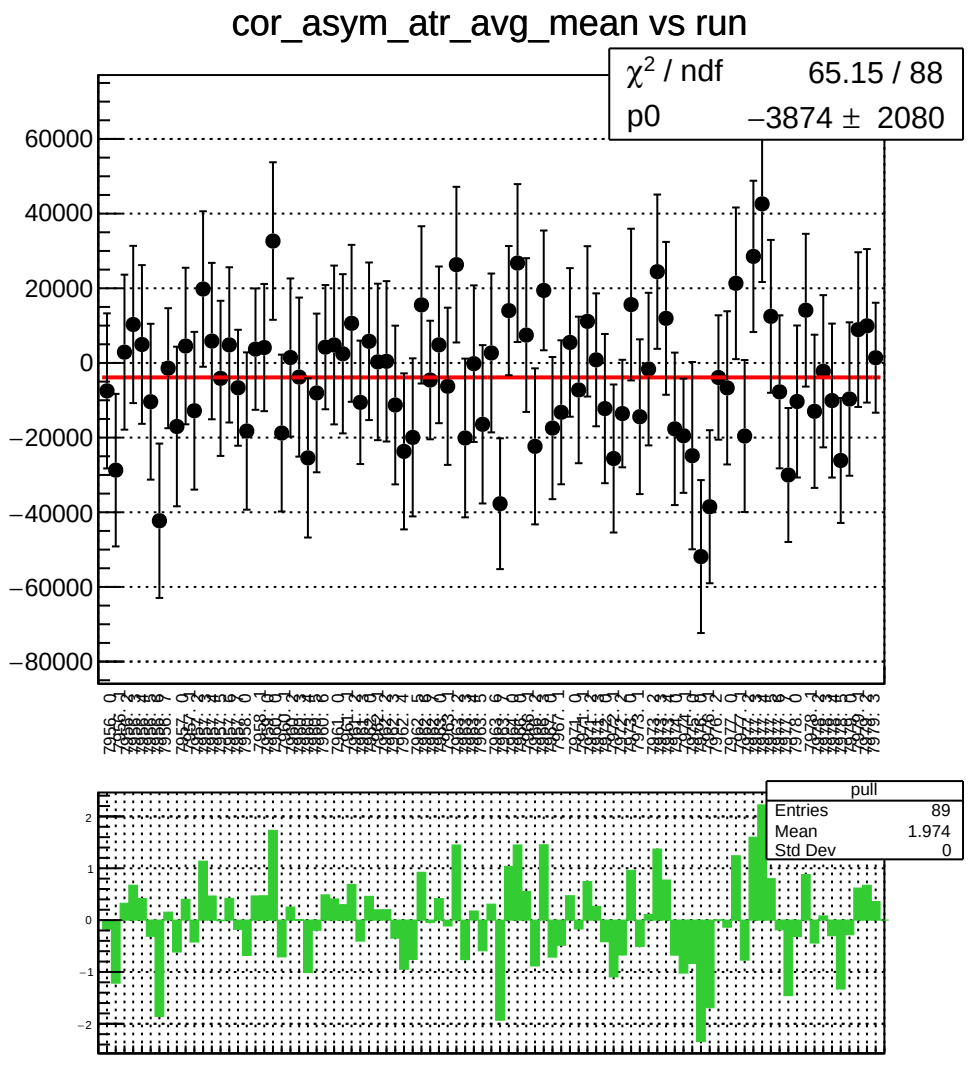

pull1D
Entries 89
Mean 0.006042
Std Dev 0.8556

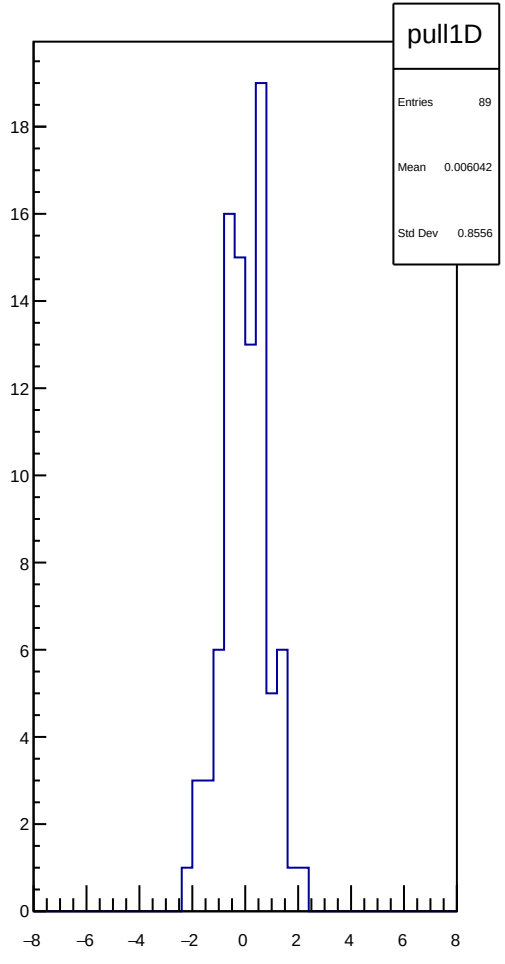

reg_asym_atr_avg_rms vs run
$\chi^2$ / ndf 847.1 / 88
p0 1968 ± 1.471
2050
2000
1950
1900
1850
1800

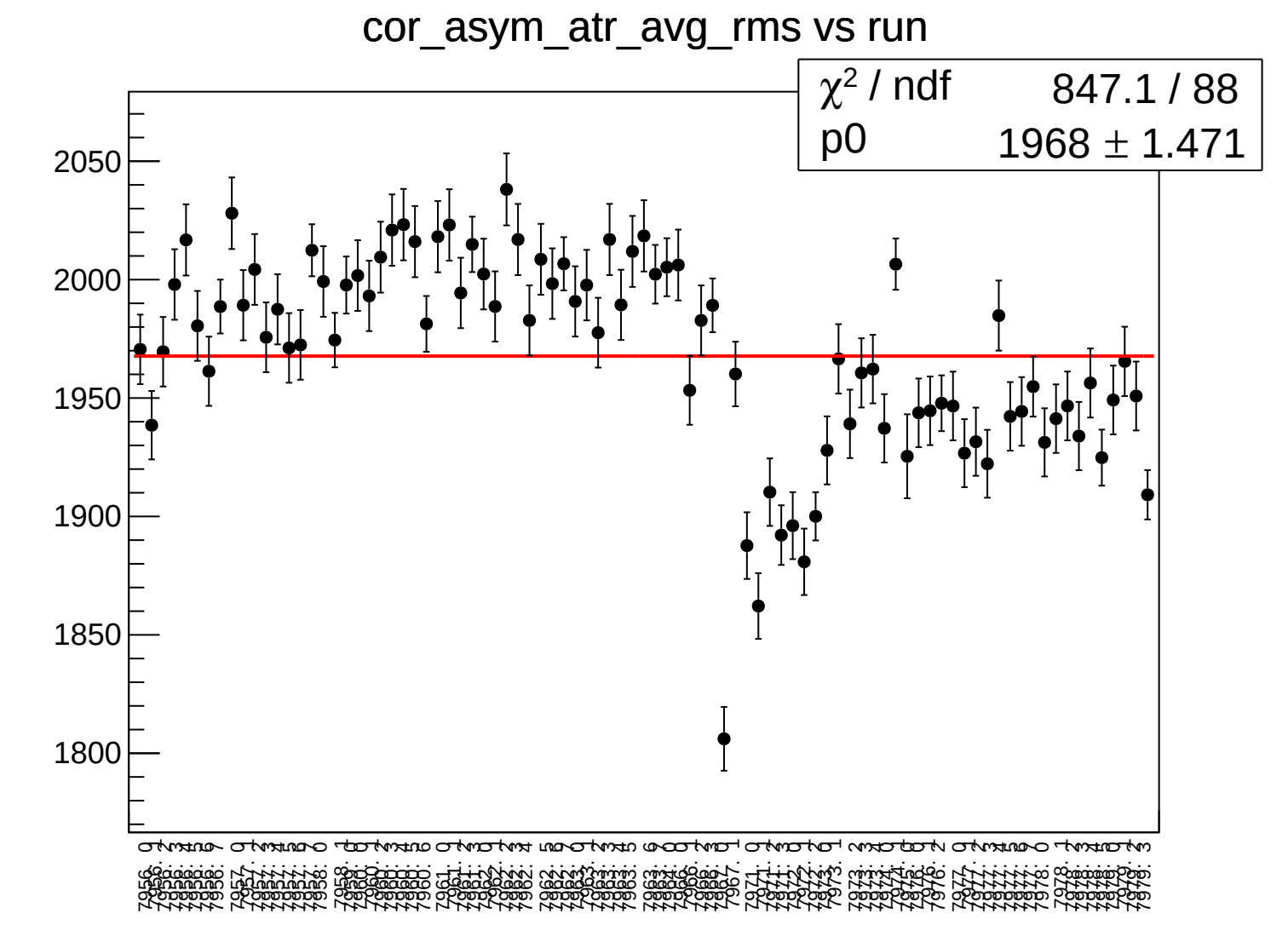

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.52 / 88
p0 4614 ± 7898
pull
Entries 89
Mean −331
Std Dev 0

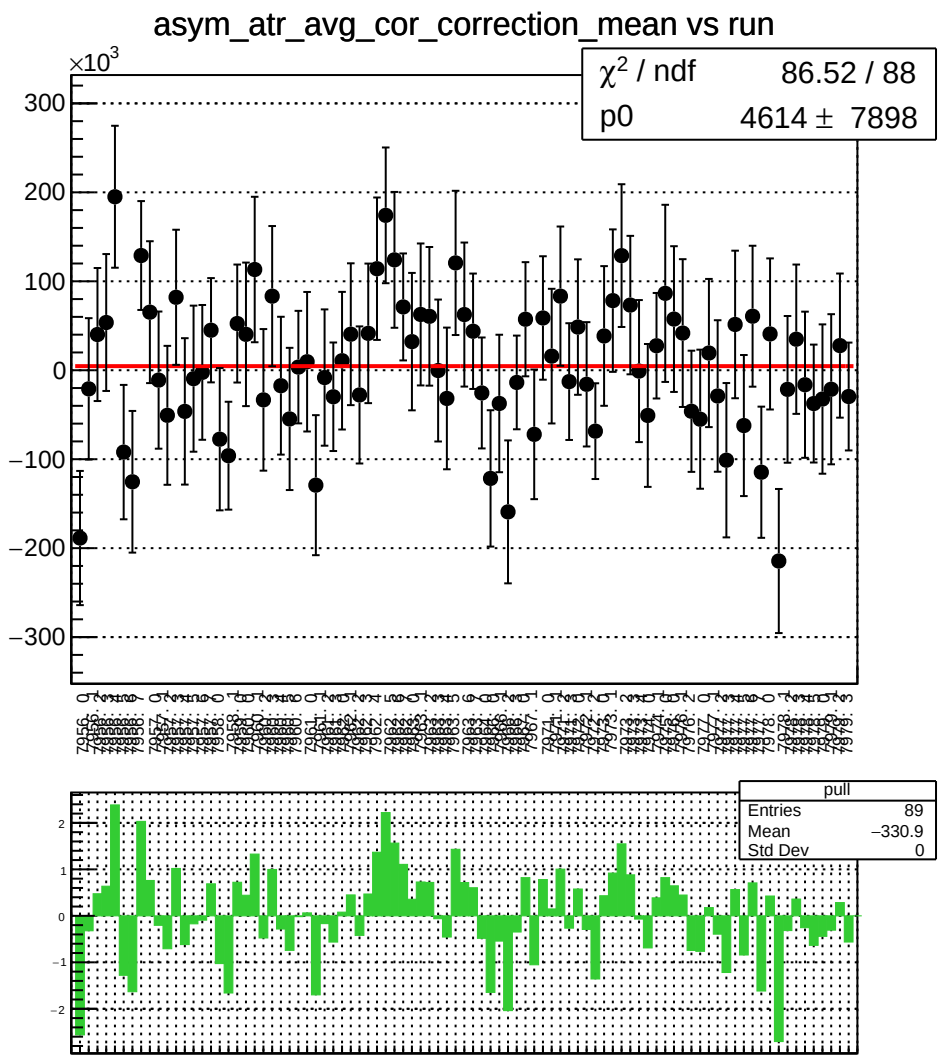

pull1D
Entries 89
Mean 0.006294
Std Dev 0.9859

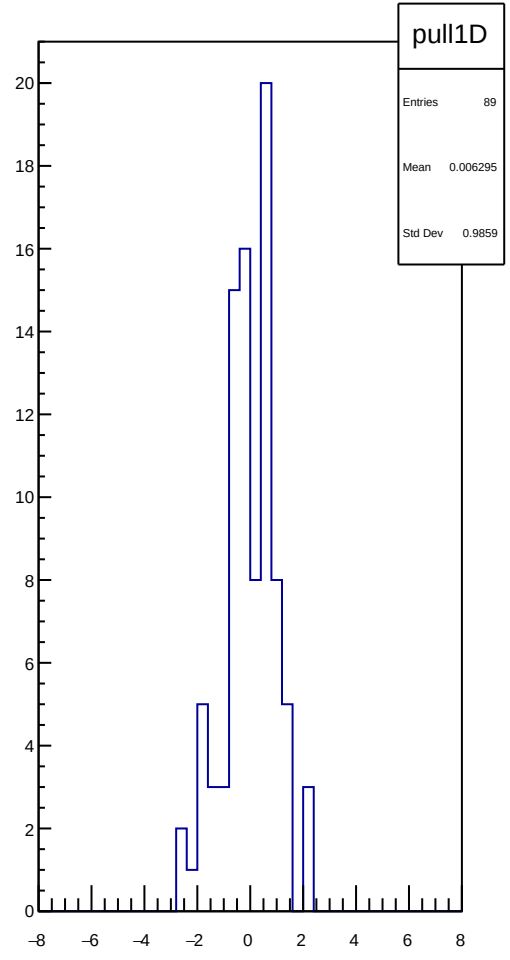

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 4255 / 88
p0 7464 ± 5.585
8500
8000
7500
7000
6500
6000

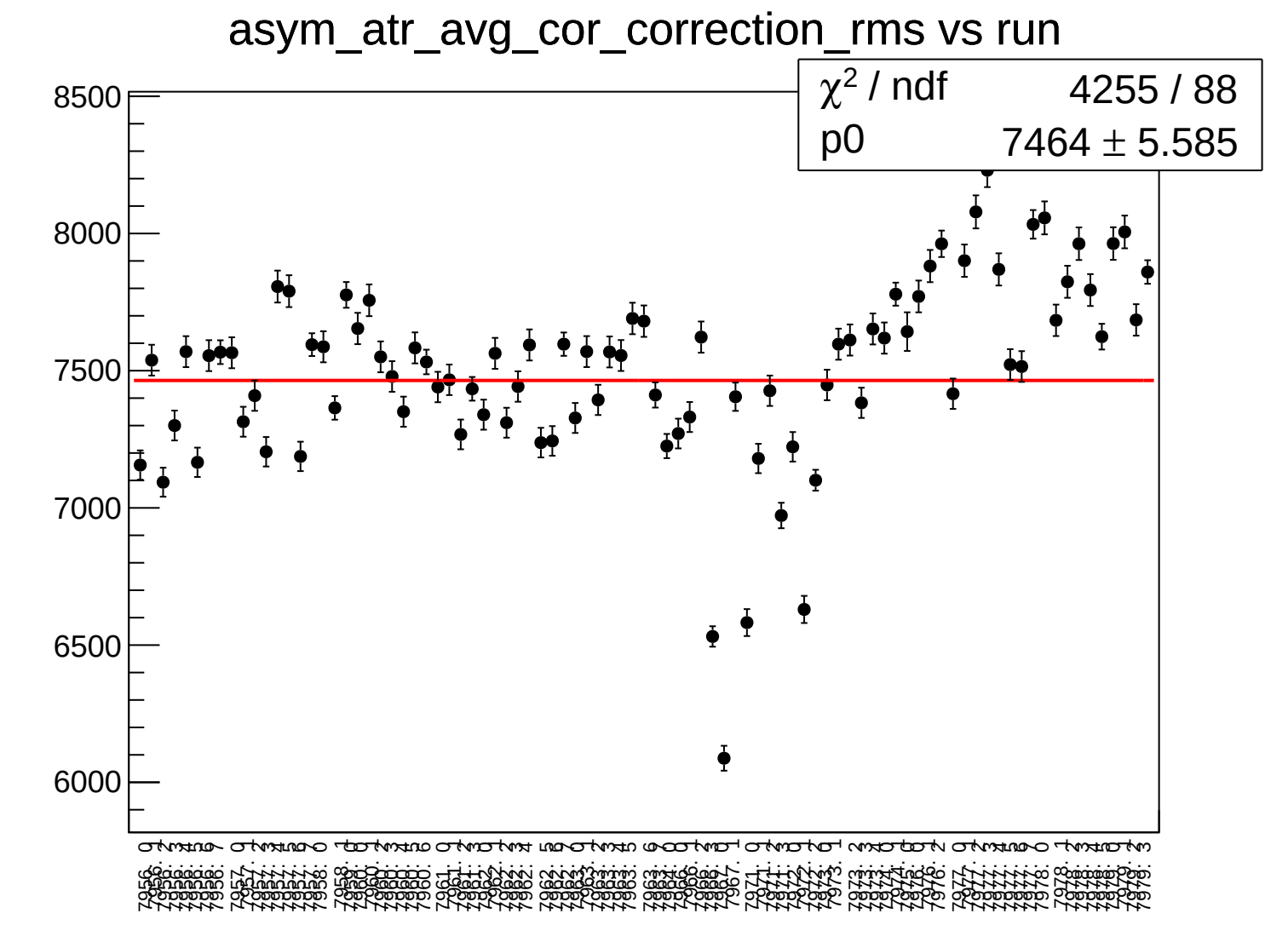

cor_asym_atr_avg_mean vs run
χ² / ndf 65.15 / 88
p0 −3874 ± 2080
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 1.974
Std Dev 0
2
1
0
−1
−2

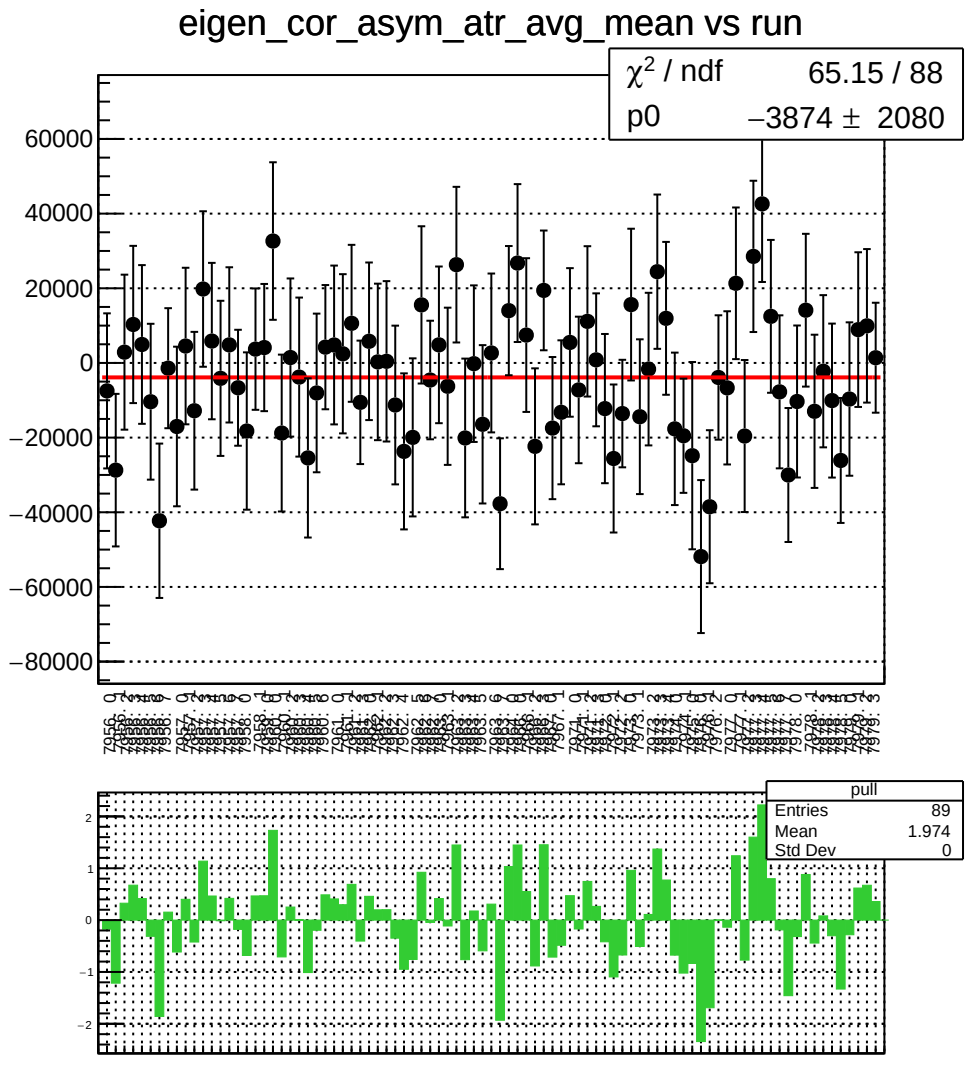

pull1D
Entries 89
Mean 0.006042
Std Dev 0.8556
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

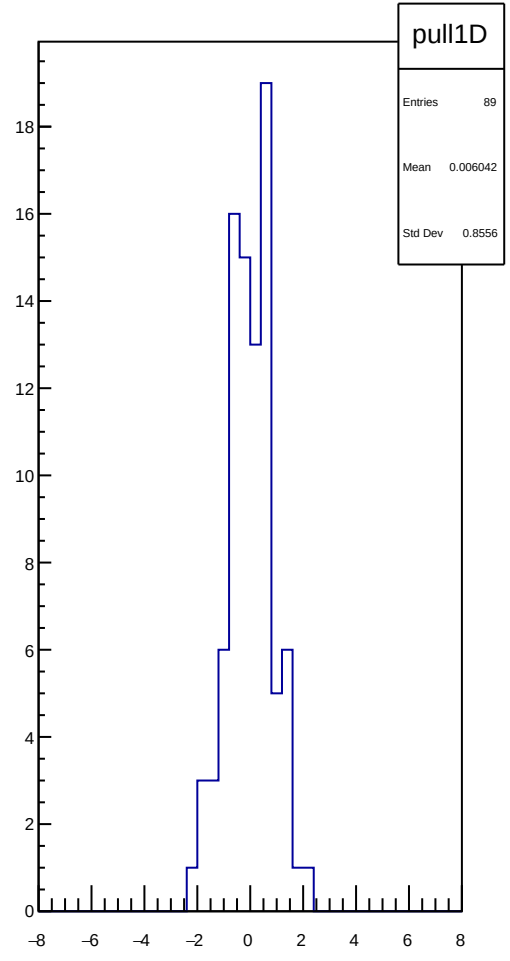

cor_asym_atr_avg_rms vs run
$\chi^2$ / ndf 847.1 / 88
p0 1968 ± 1.471
2050
2000
1950
1900
1850
1800

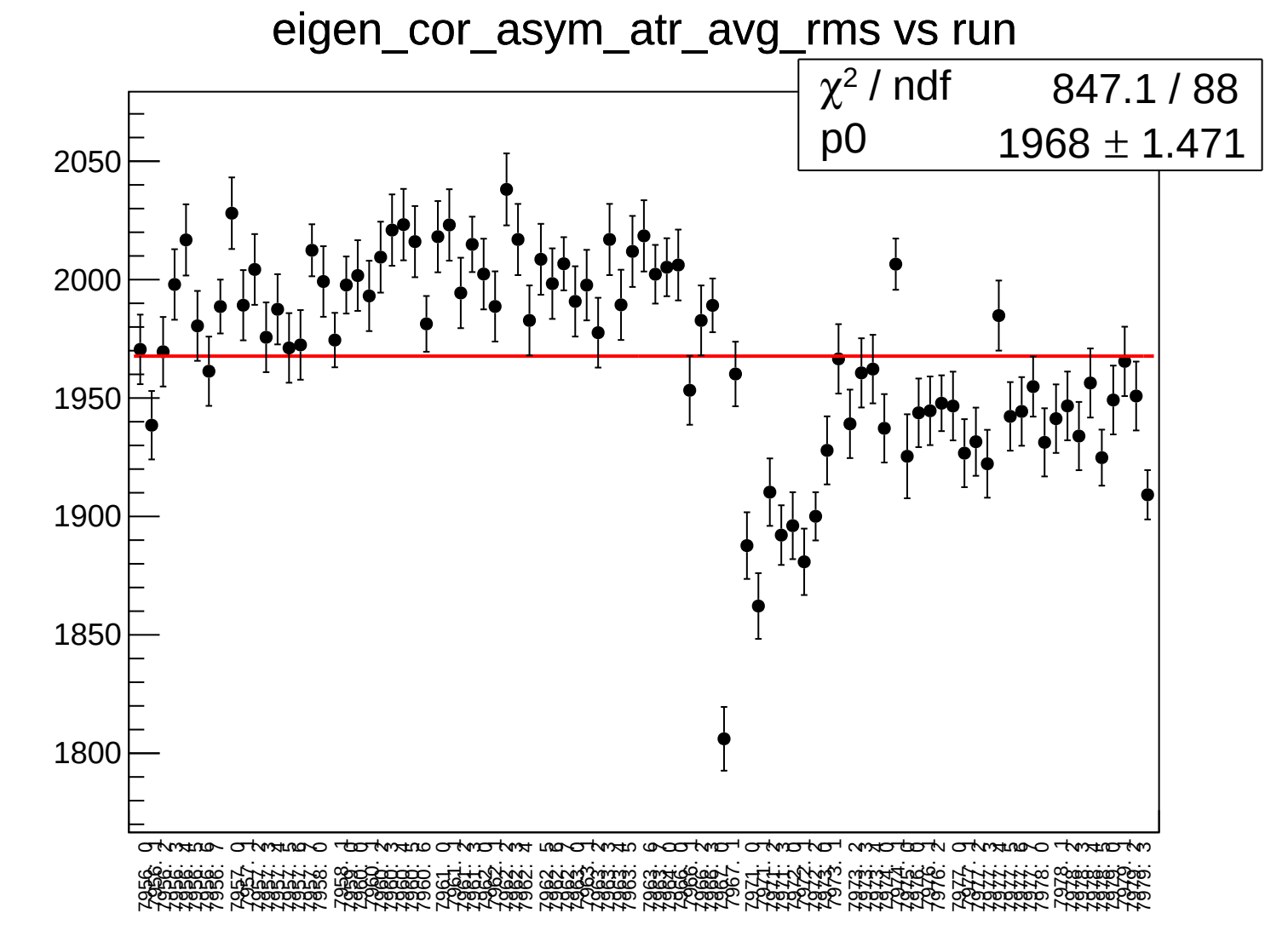

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.52 / 88
p0 4614 ± 7898
pull
Entries 89
Mean −330.9
Std Dev 0

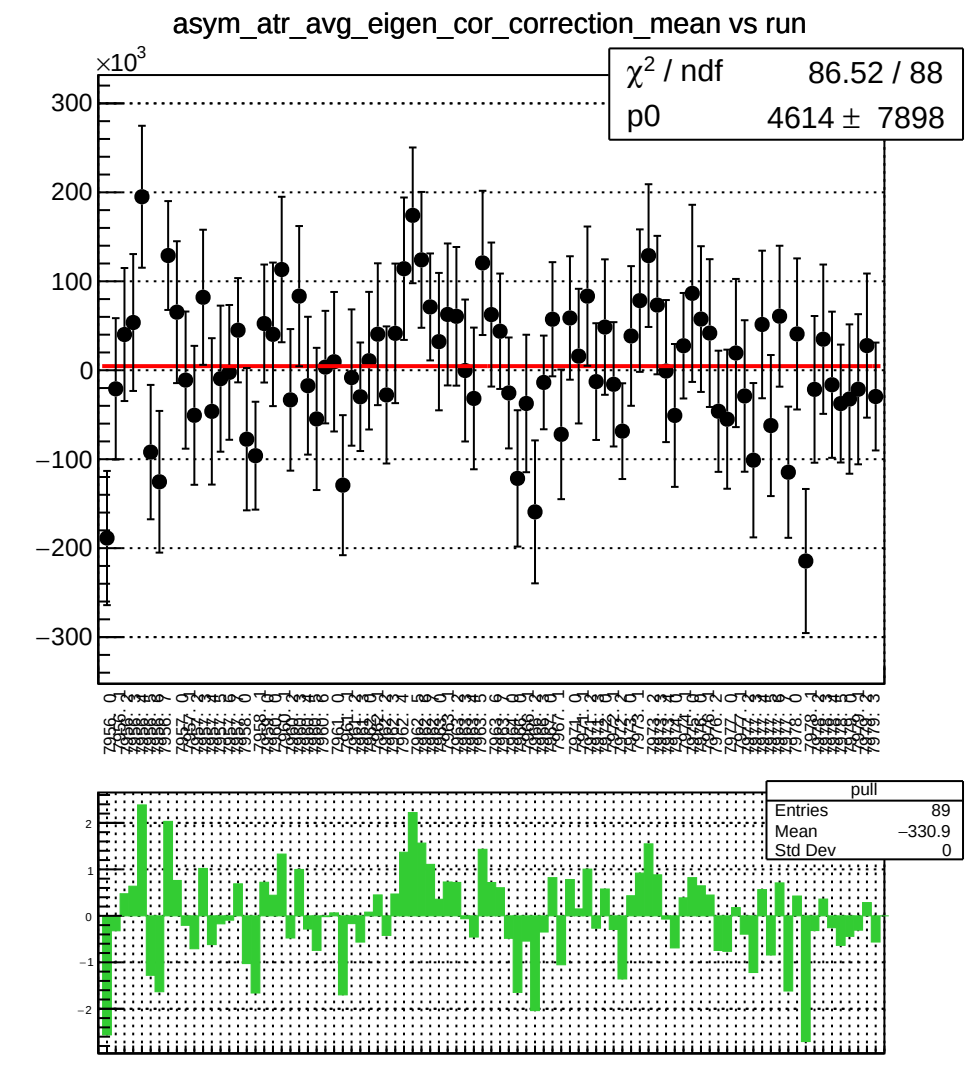

pull1D
Entries 89
Mean 0.006295
Std Dev 0.9859

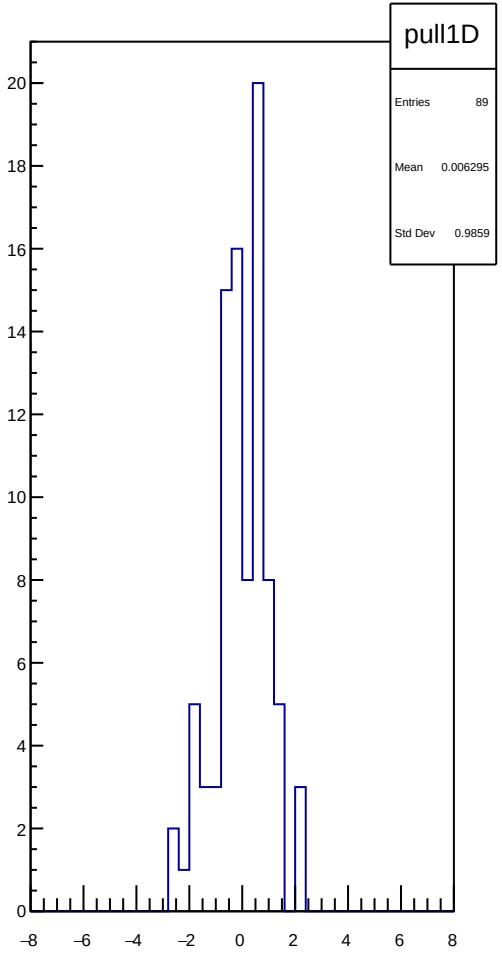

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 4255 / 88
p0 7464 ± 5.585
8500
8000
7500
7000
6500
6000

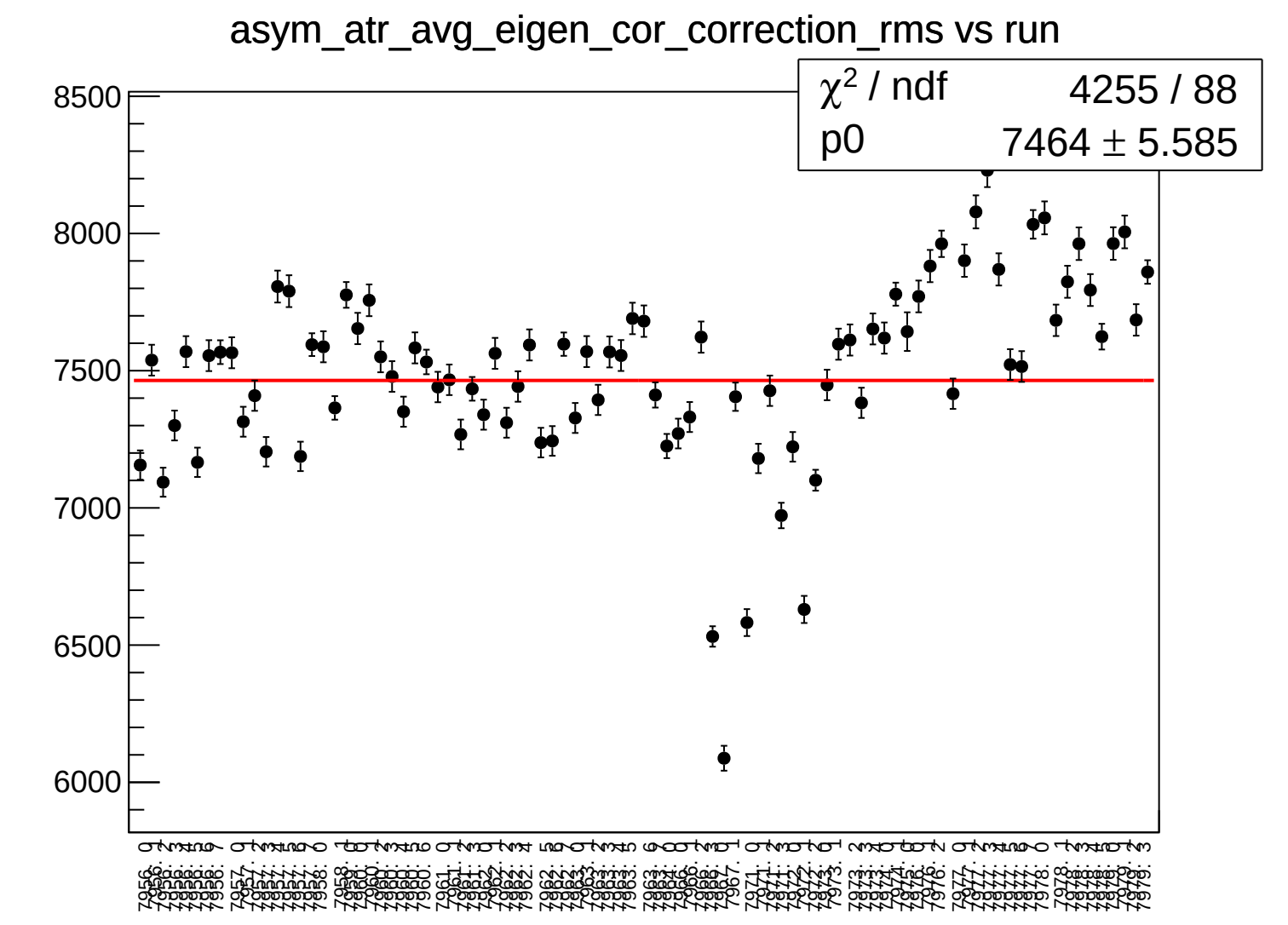

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 65.15 / 88
p0 −3874 ± 2080
pull
Entries 89
Mean 1.974
Std Dev 0

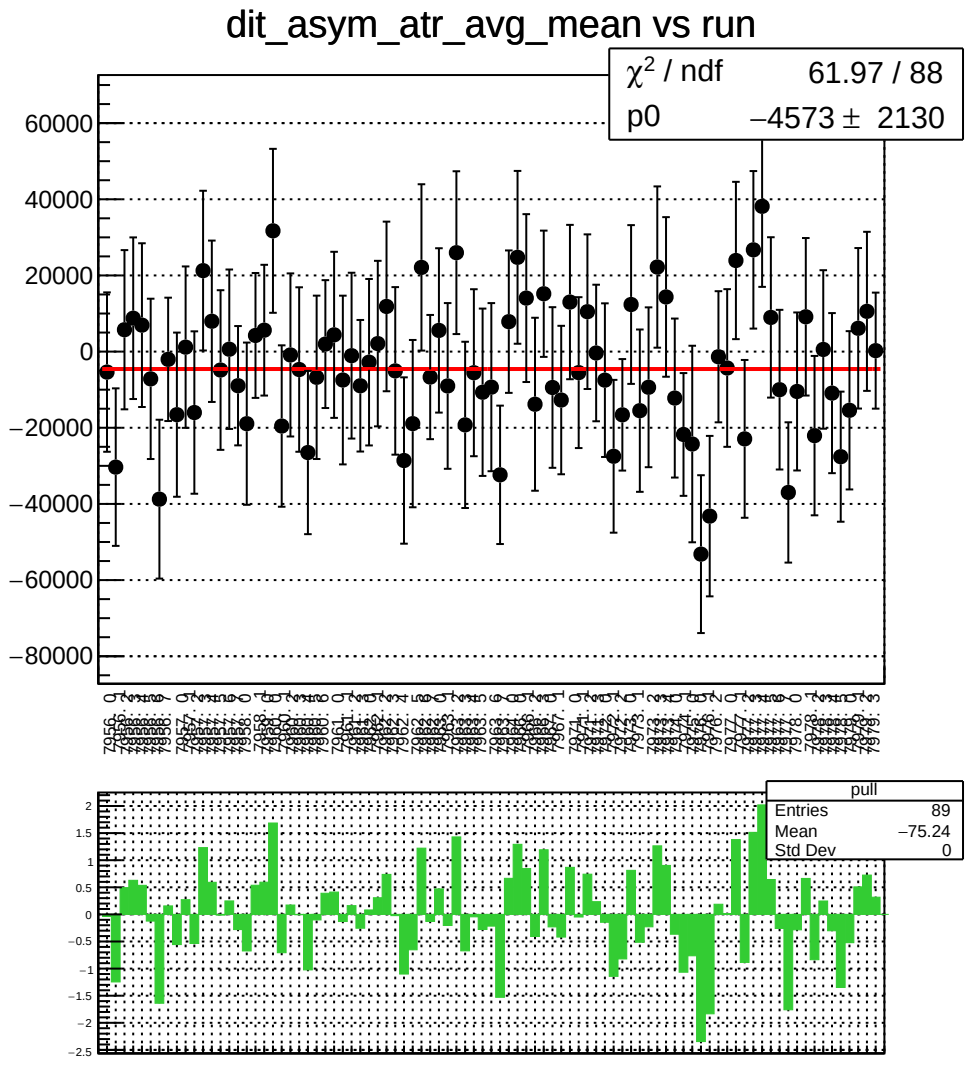

pull1D
Entries 89
Mean 0.006042
Std Dev 0.8556

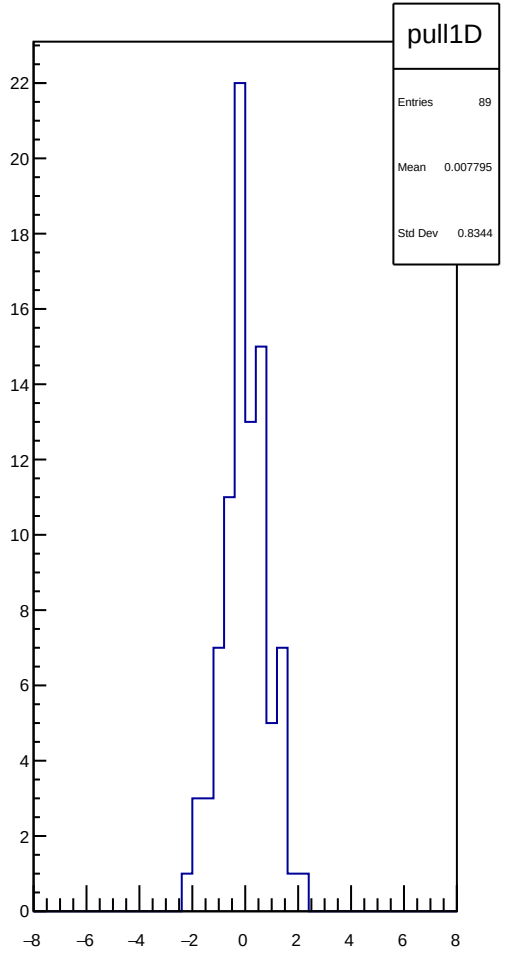

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 847.1 / 88
p0 1968 ± 1.471
2050
2000
1950
1900
1850
1800

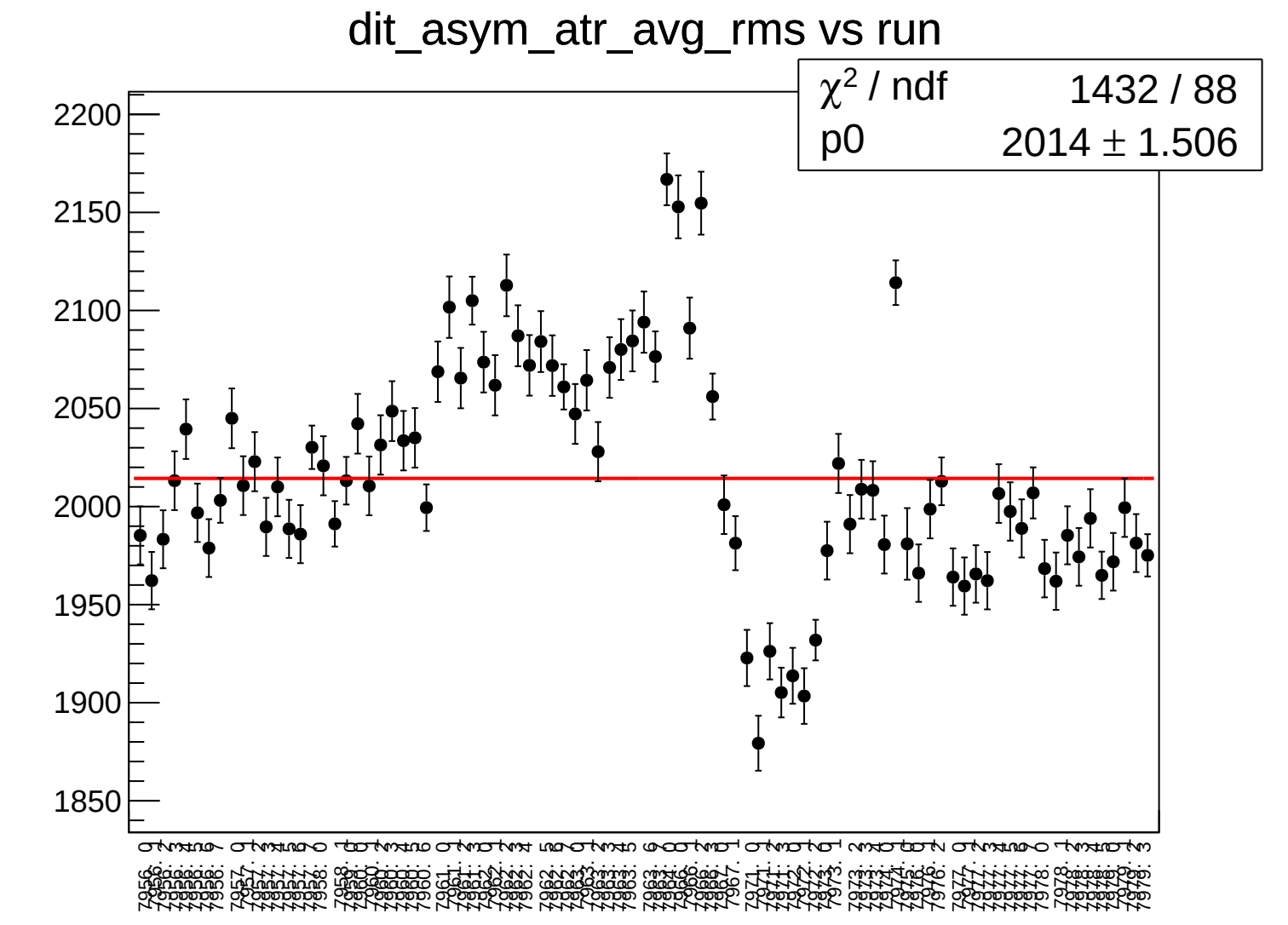

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.52 / 88
p0 4614 ± 7898
×10³
pull
Entries 89
Mean −330.9
Std Dev 0

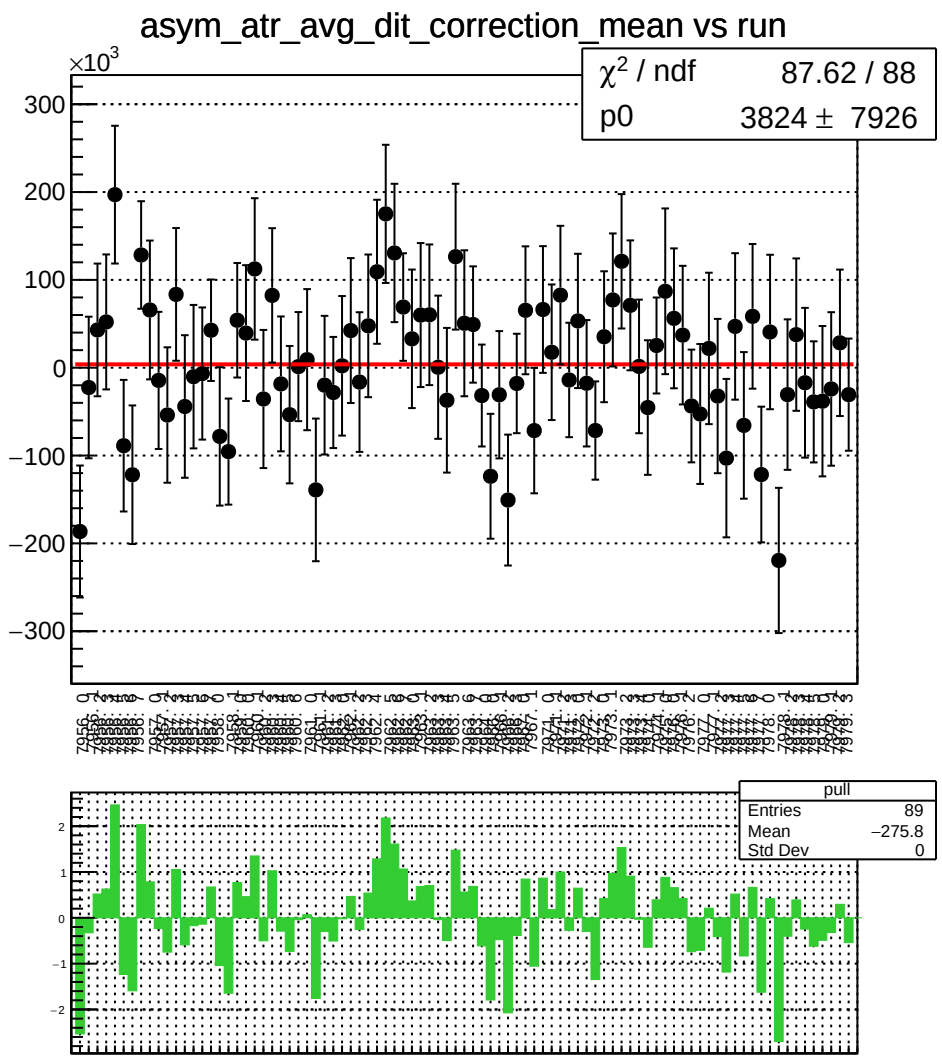

pull1D
Entries 89
Mean 0.006295
Std Dev 0.9859

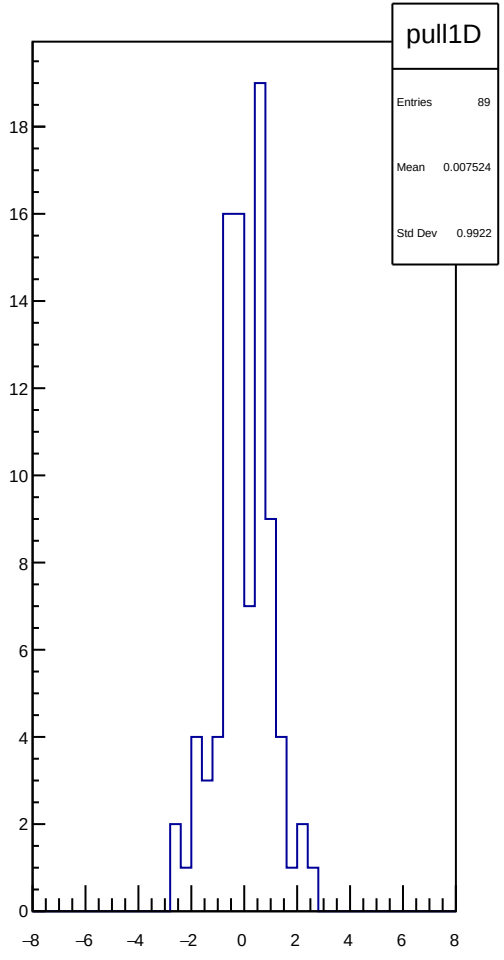

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 4255 / 88
p0 7464 ± 5.585
8500
8000
7500
7000
6500
6000

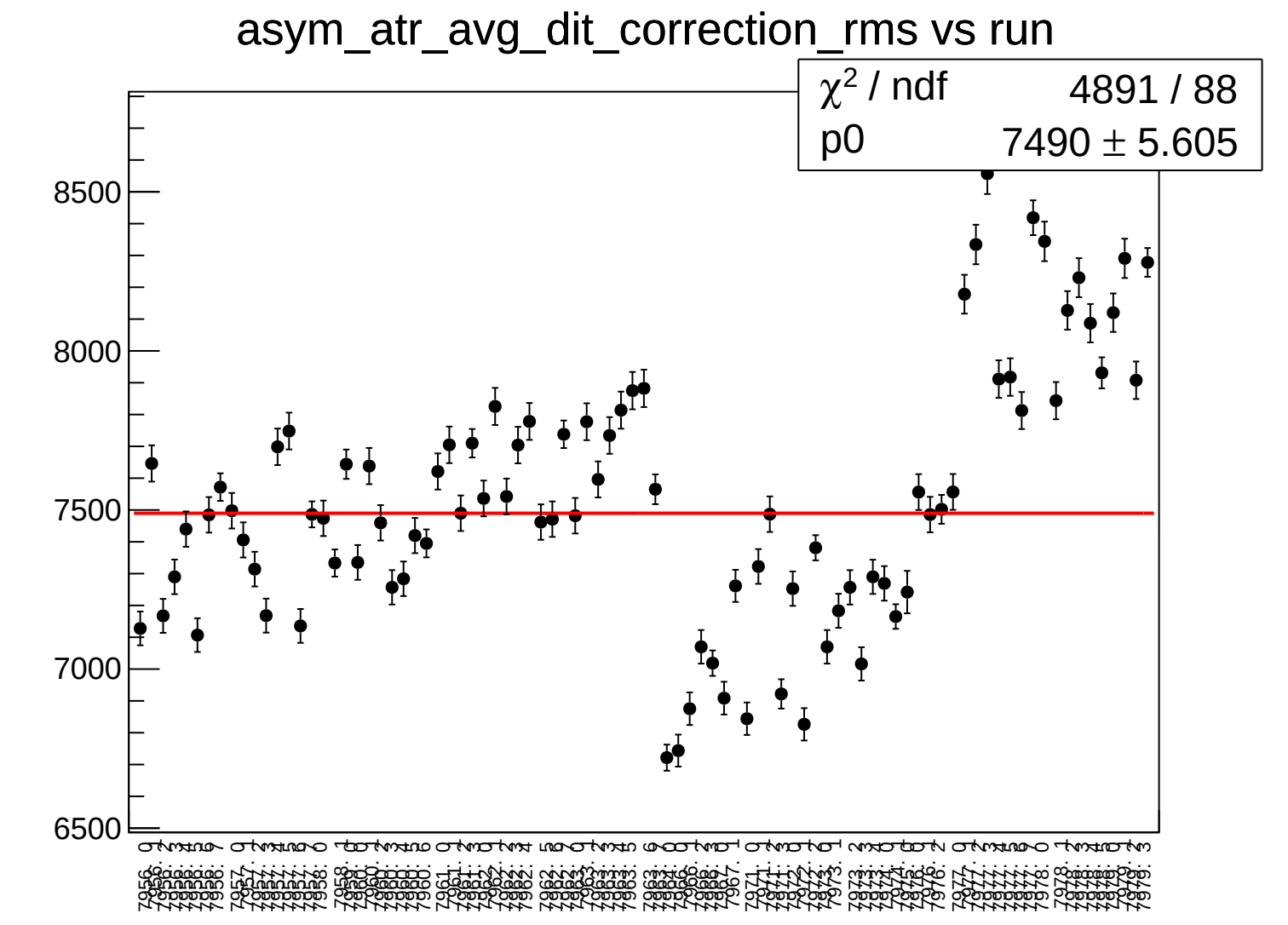

dit_asym_atr_avg_mean vs run
χ² / ndf 61.97 / 88
p0 −4573 ± 2130
pull
Entries 89
Mean −75.24
Std Dev 0

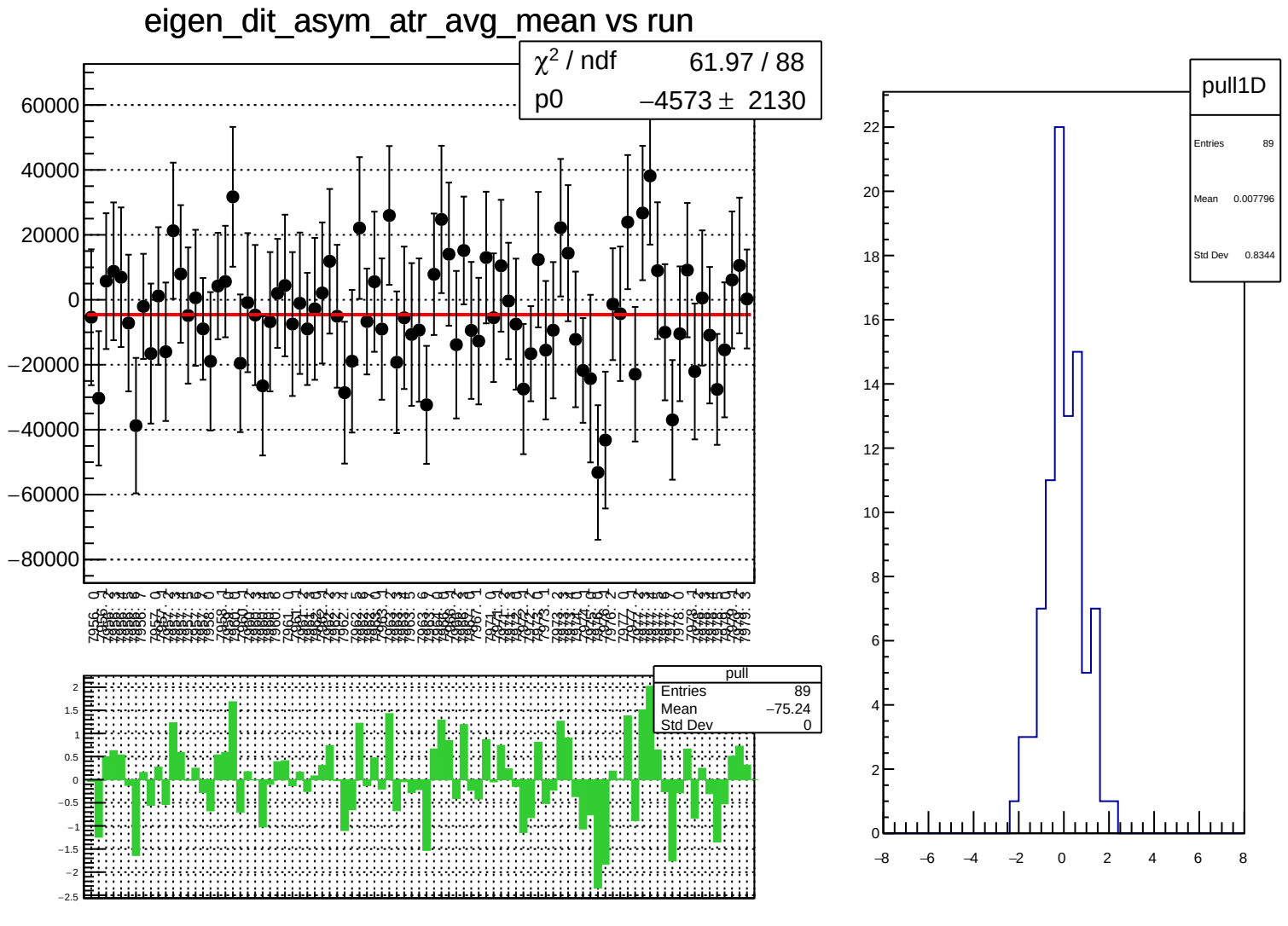

pull1D
Entries 89
Mean 0.007795
Std Dev 0.8344

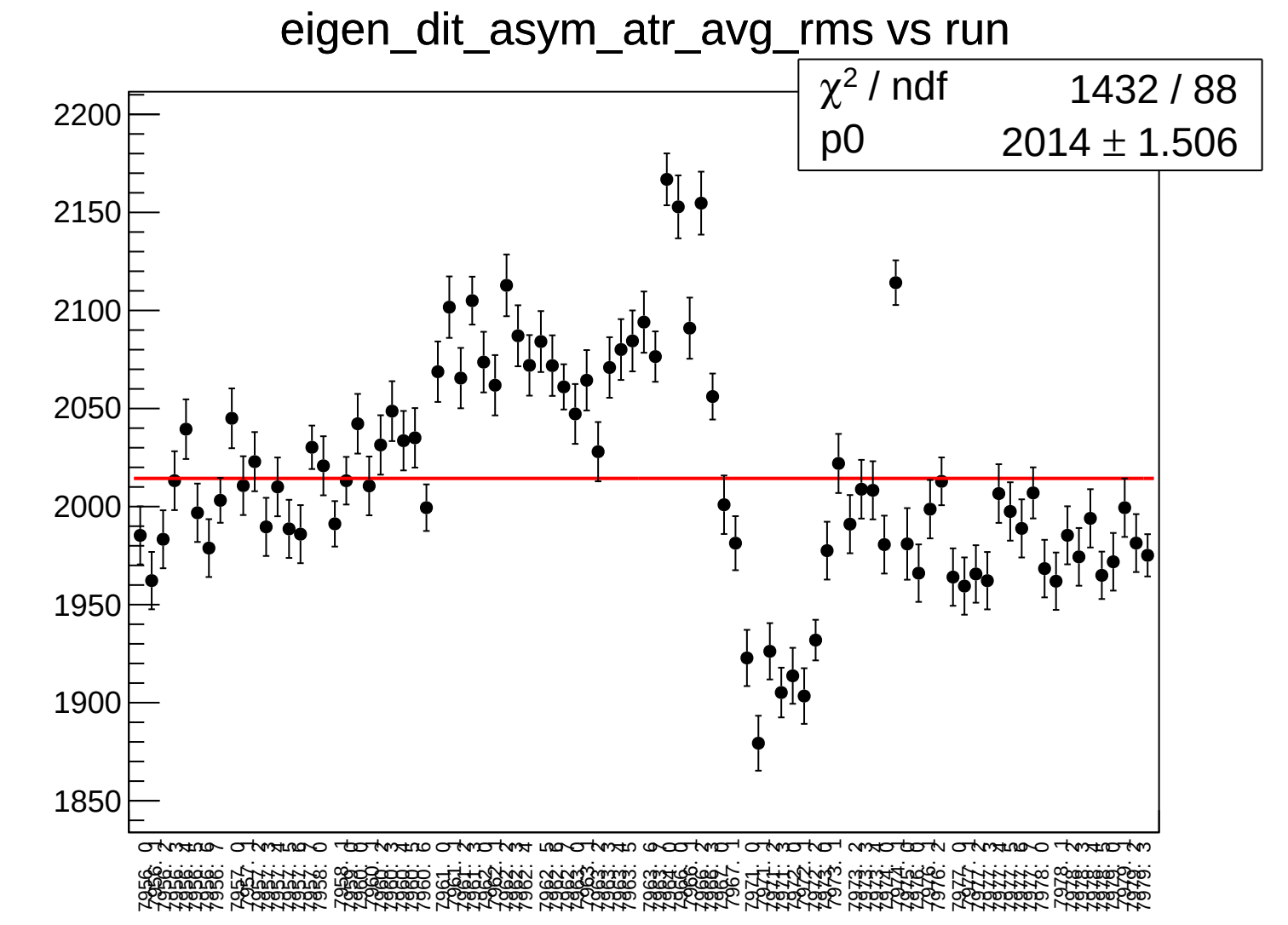

dit_asym_atr_avg_rms vs run
χ² / ndf 1432 / 88
p0 2014 ± 1.506
2200
2150
2100
2050
2000
1950
1900
1850

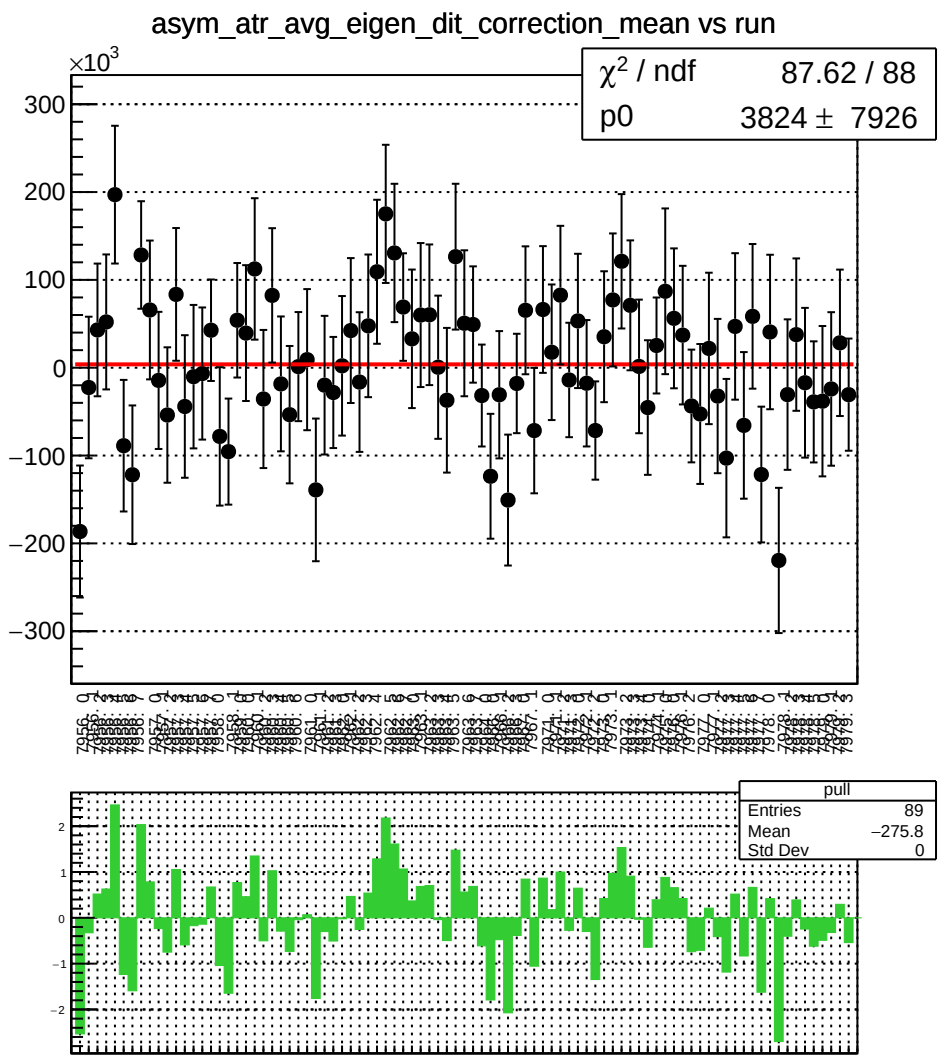

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.62 / 88
p0 3824 ± 7926
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −275.8
Std Dev 0
2
1
0
−1
−2

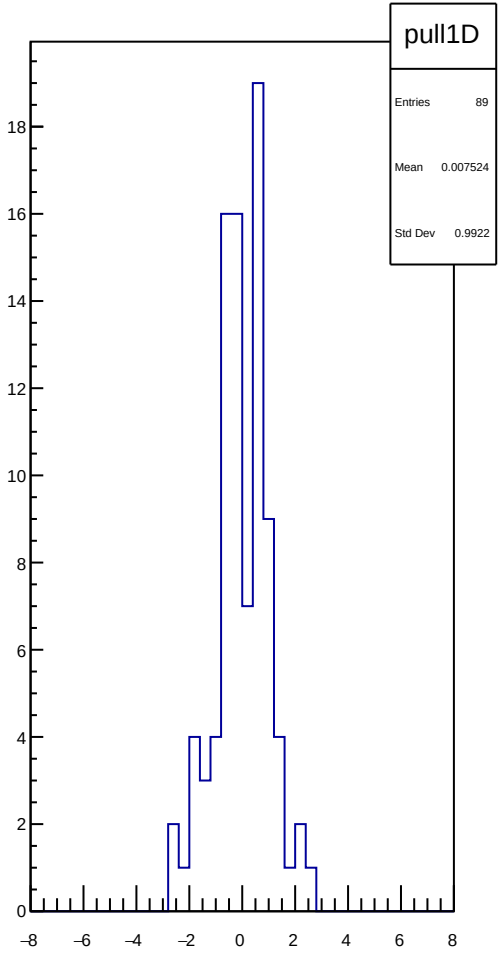

pull1D
Entries 89
Mean 0.007524
Std Dev 0.9922
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

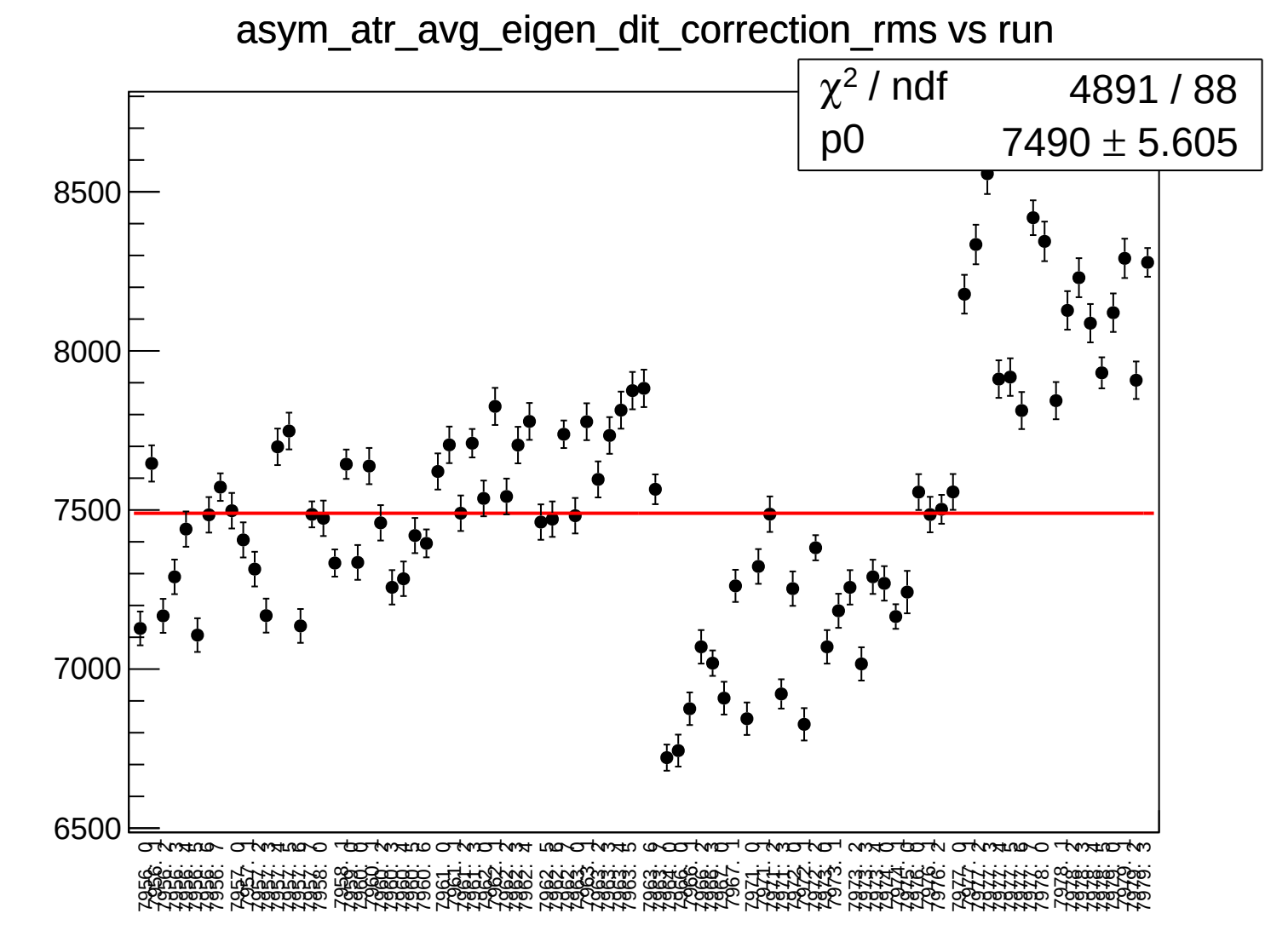

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 4891 / 88
p0 7490 ± 5.605
8500
8000
7500
7000
6500

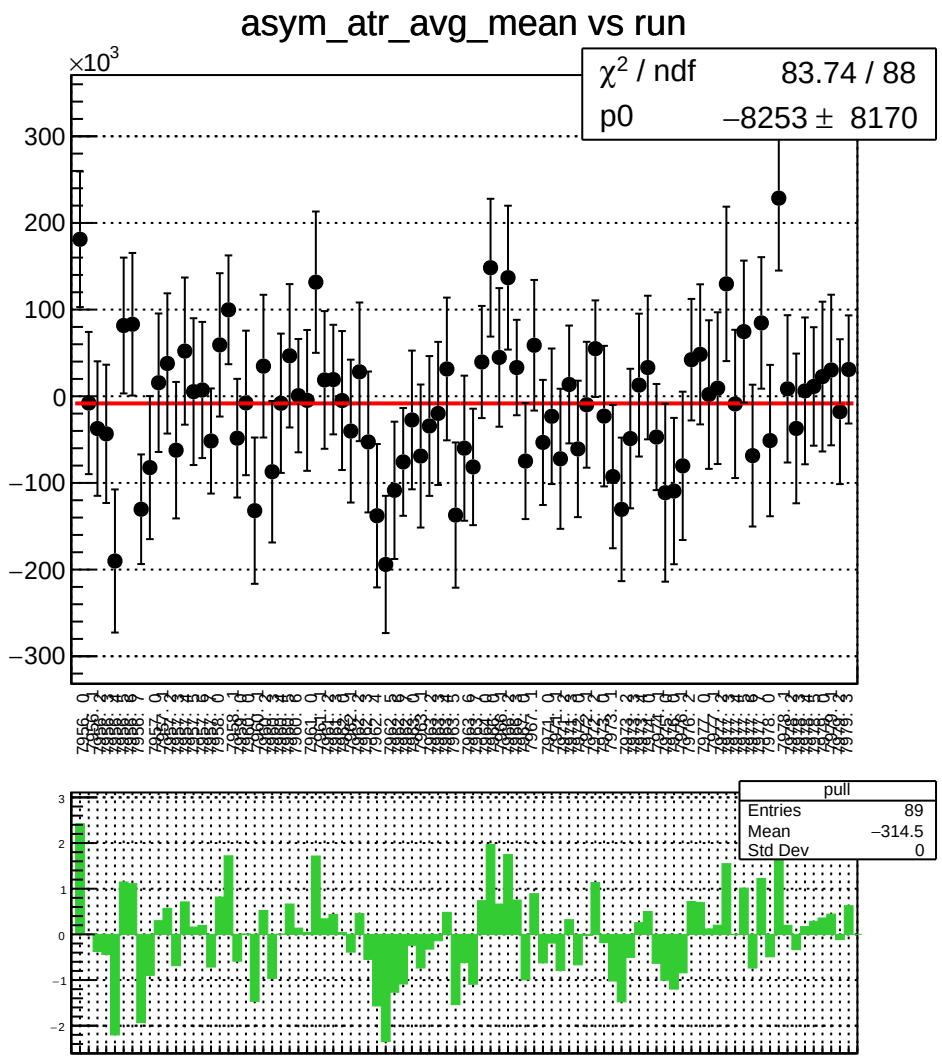

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 61.97 / 88
p0 −4573 ± 2130
pull
Entries 89
Mean −75.24
Std Dev 0
pull1D
Entries 89
Mean 0.007796
Std Dev 0.8344

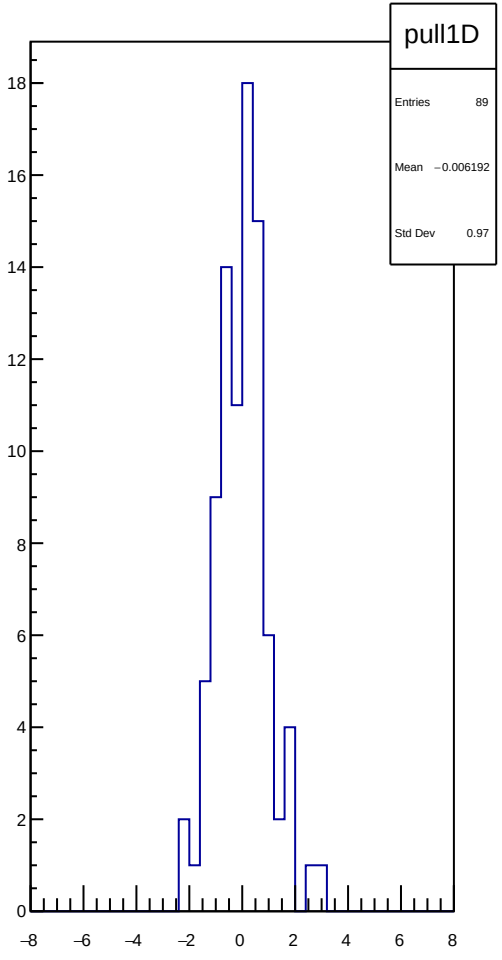

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 1432 / 88
p0 2014 ± 1.506
2200
2150
2100
2050
2000
1950
1900
1850

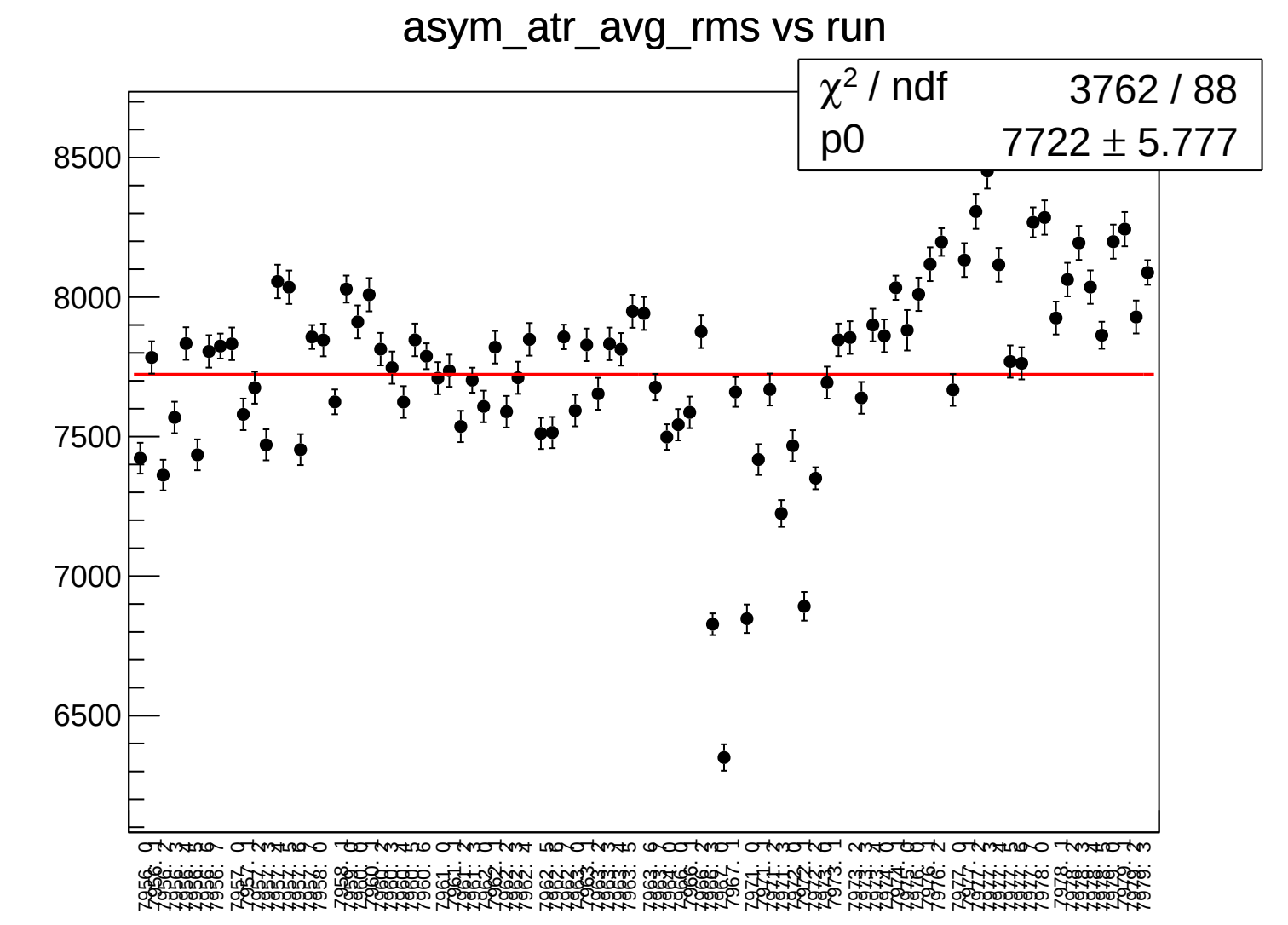

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.62 / 88
p0 3824 ± 7926
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −275.8
Std Dev 0
2
1
0
−1
−2

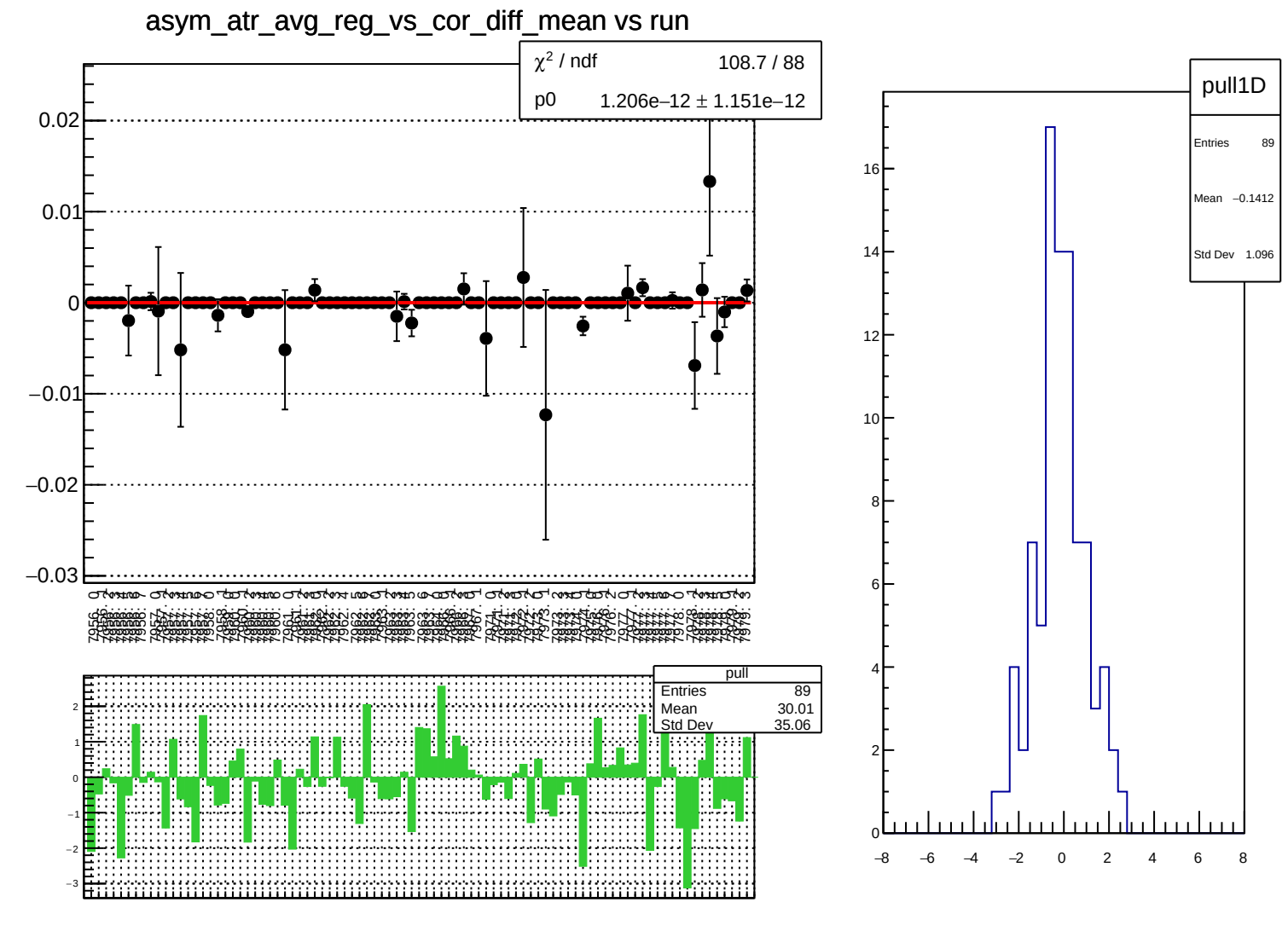

pull1D
Entries 89
Mean 0.007524
Std Dev 0.9922
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

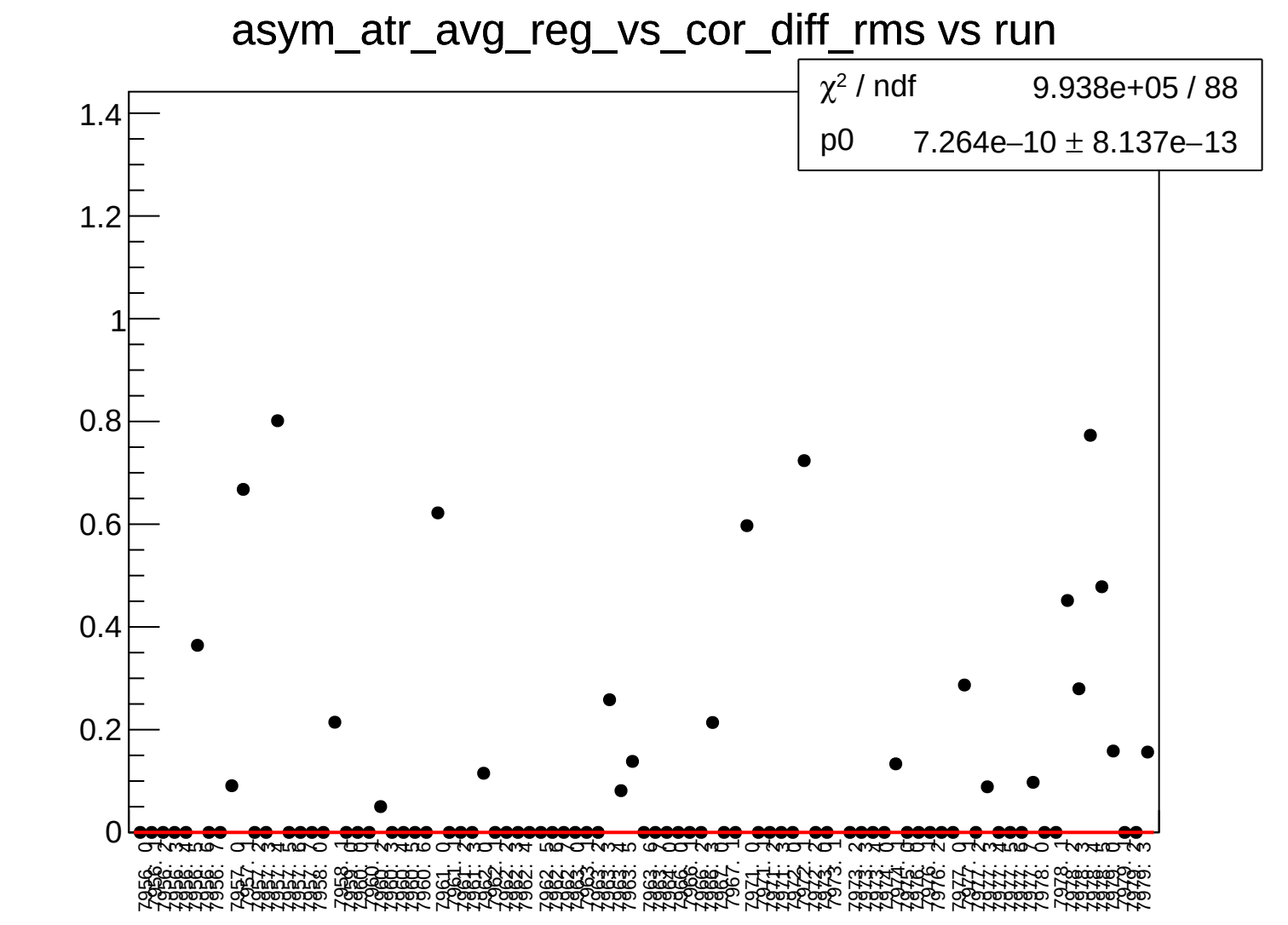

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 4891 / 88
p0 7490 ± 5.605
8500
8000
7500
7000
6500

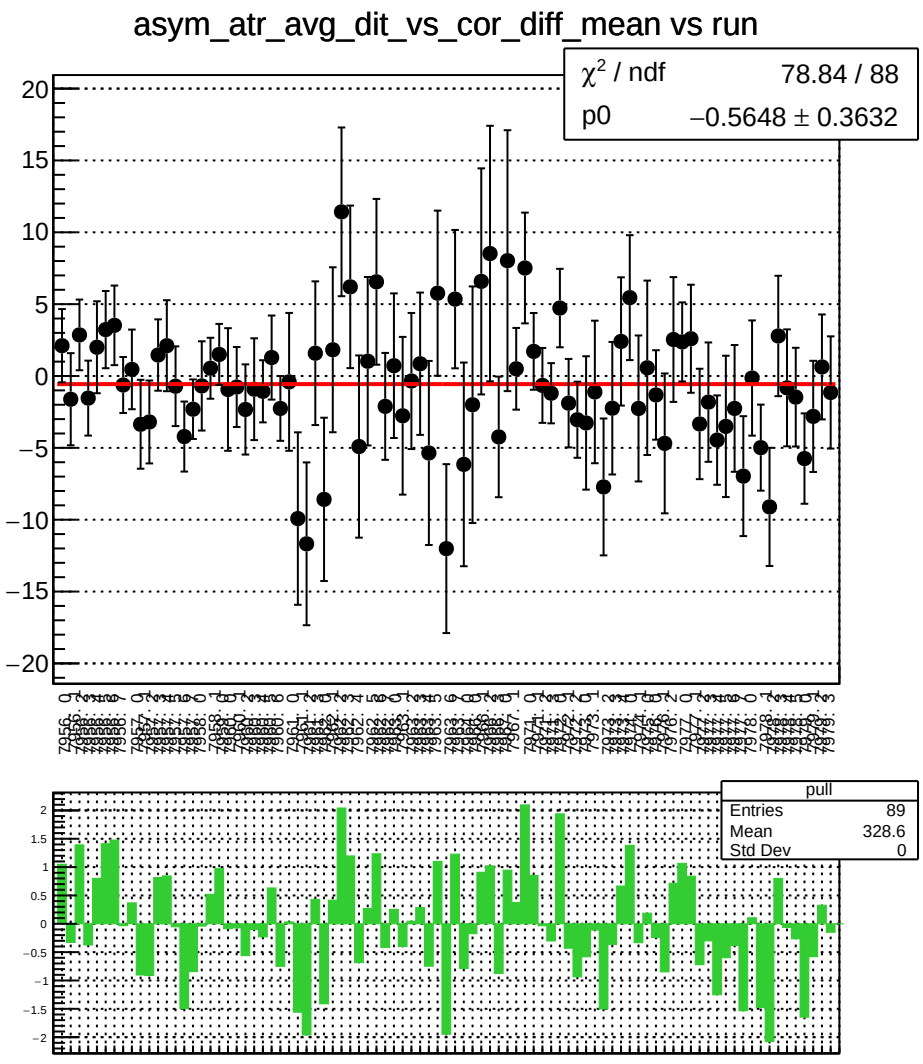

asym_atr_avg_mean vs run
×10^3
χ² / ndf 83.74 / 88
p0 −8253 ± 8170
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −314.5
Std Dev 0
3
2
1
0
−1
−2

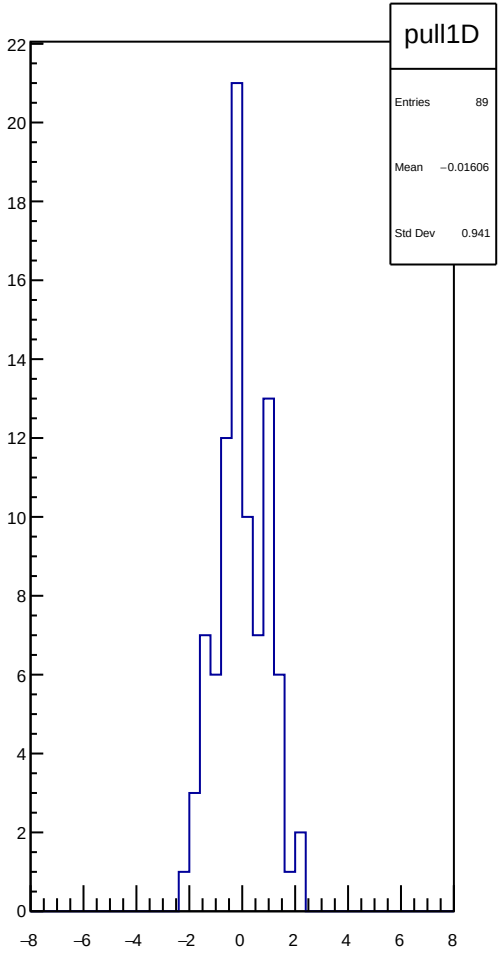

pull1D
Entries 89
Mean −0.006192
Std Dev 0.97
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

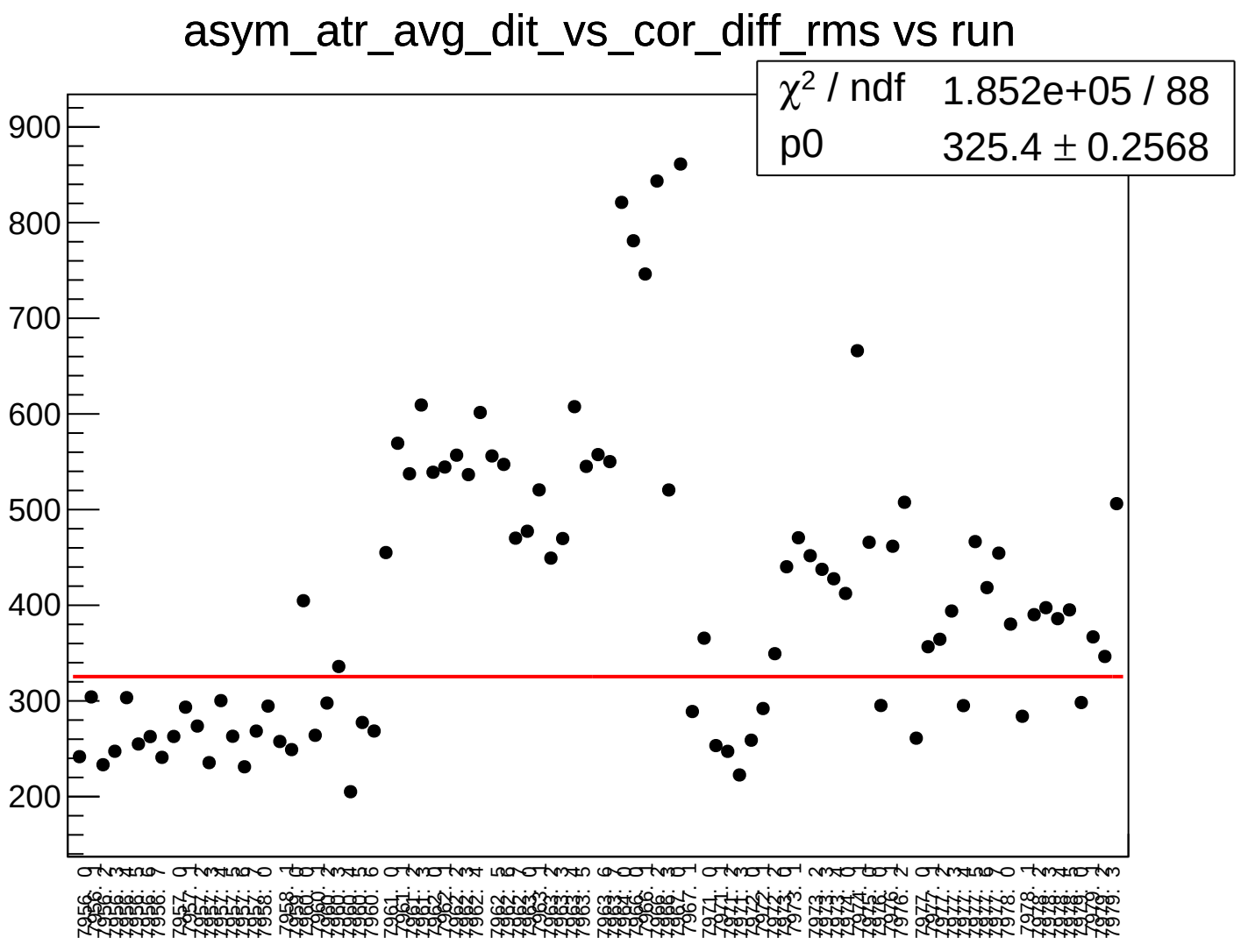

asym_atr_avg_rms vs run
$\chi^2$ / ndf 3762 / 88
p0 7722 ± 5.777
8500
8000
7500
7000
6500

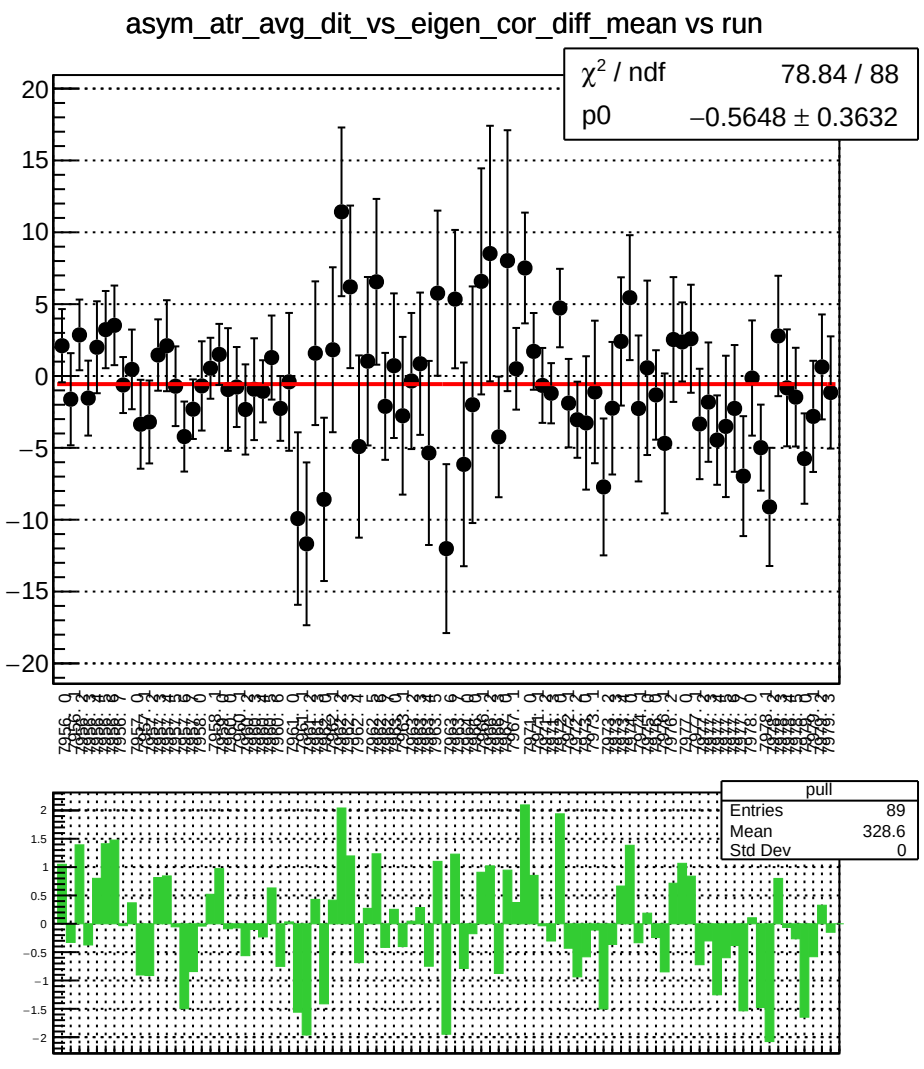

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 88
p0 1.206e−12 ± 1.151e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 30.01
Std Dev 35.06
pull1D
Entries 89
Mean −0.1412
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

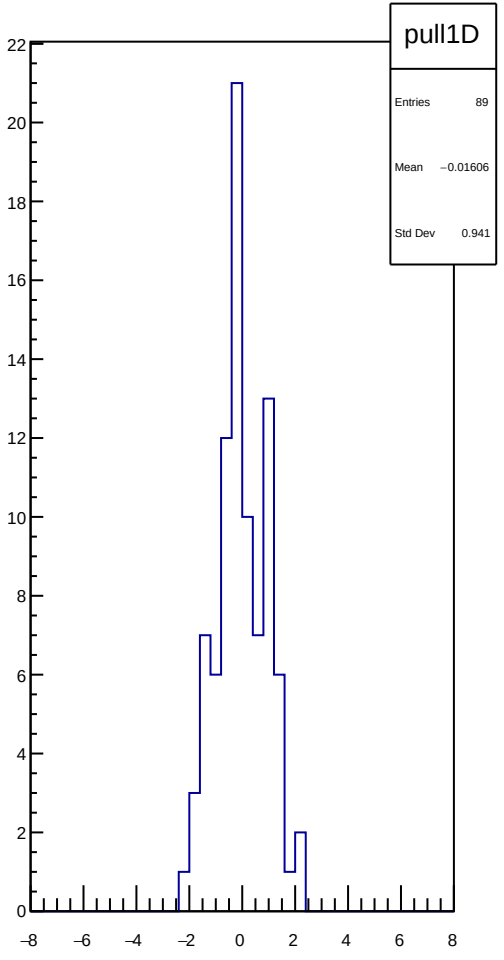

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.938e+05 / 88
p0 7.264e−10 ± 8.137e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

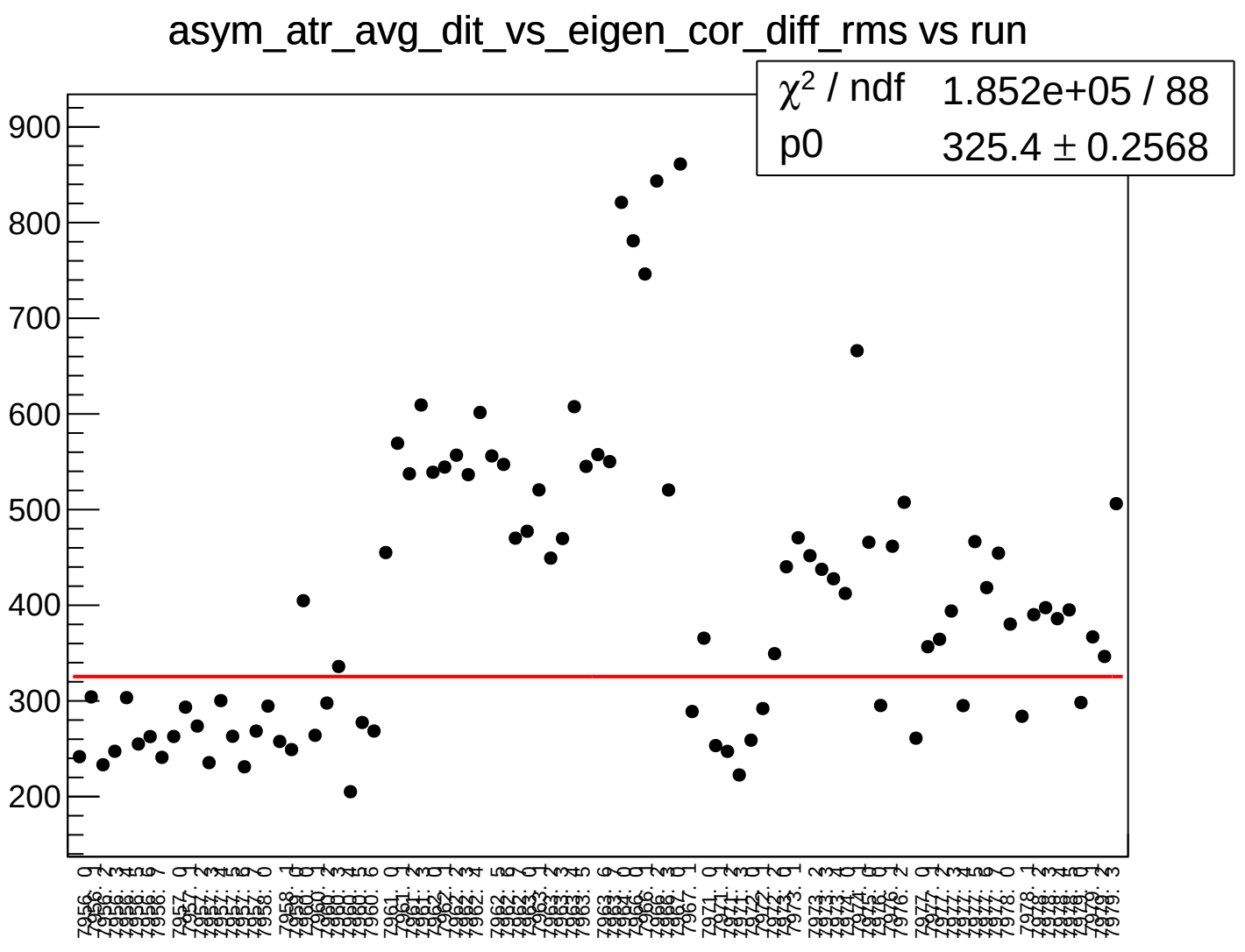

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.84 / 88
p0 −0.5648 ± 0.3632
pull
Entries 89
Mean 328.6
Std Dev 0

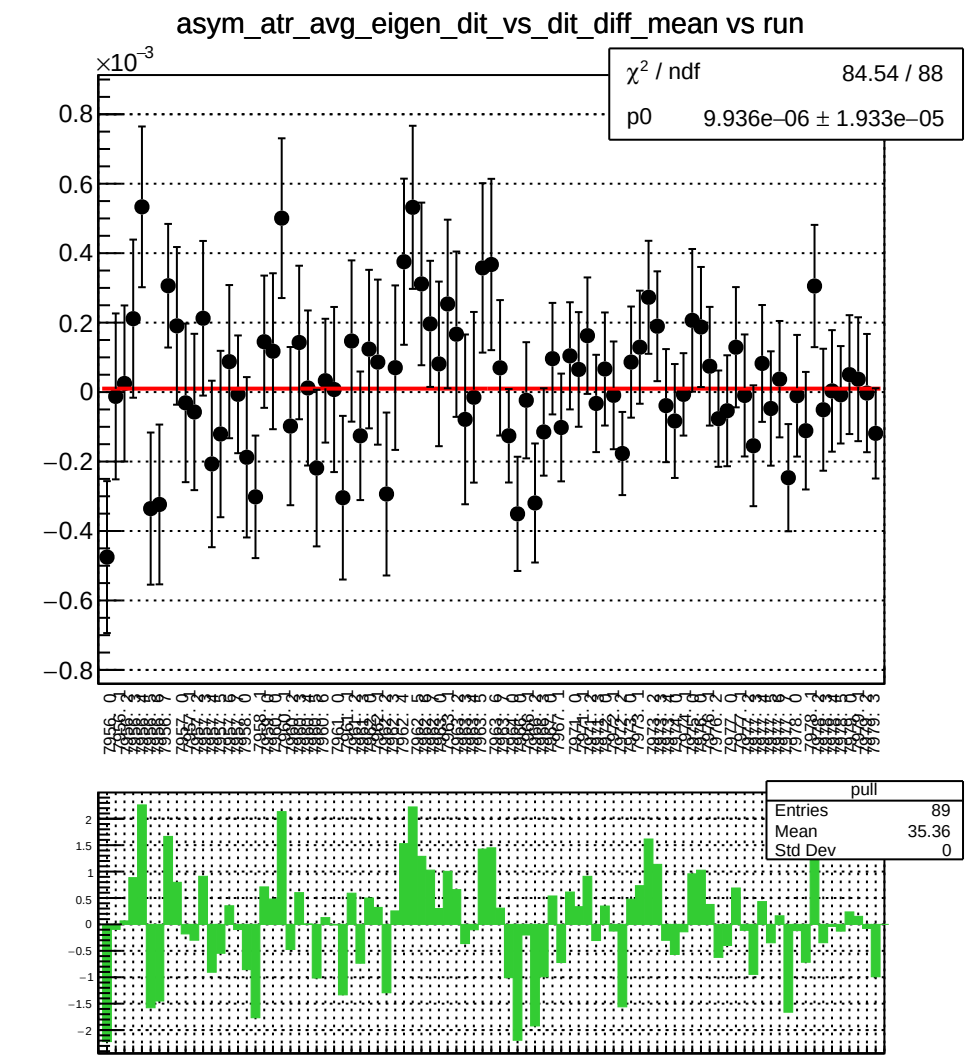

pull1D
Entries 89
Mean −0.01606
Std Dev 0.941

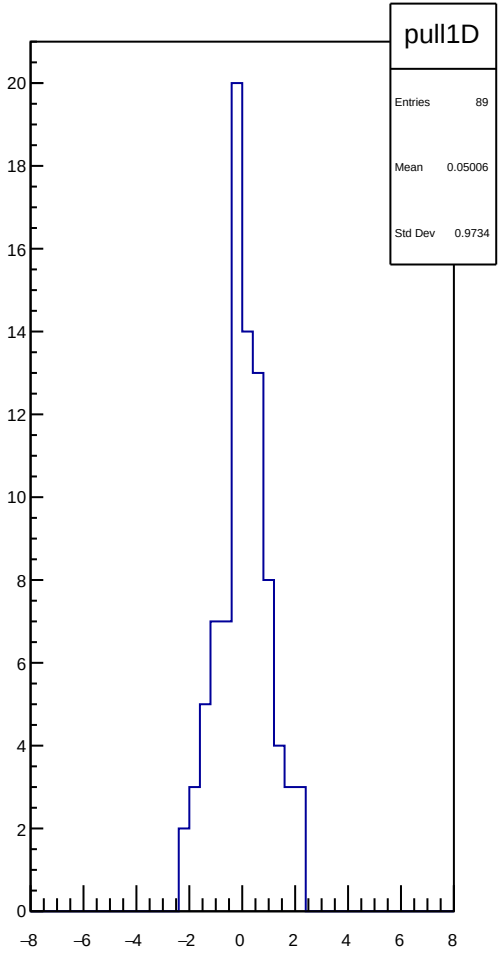

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.852e+05 / 88
p0 325.4 ± 0.2568
900
800
700
600
500
400
300
200

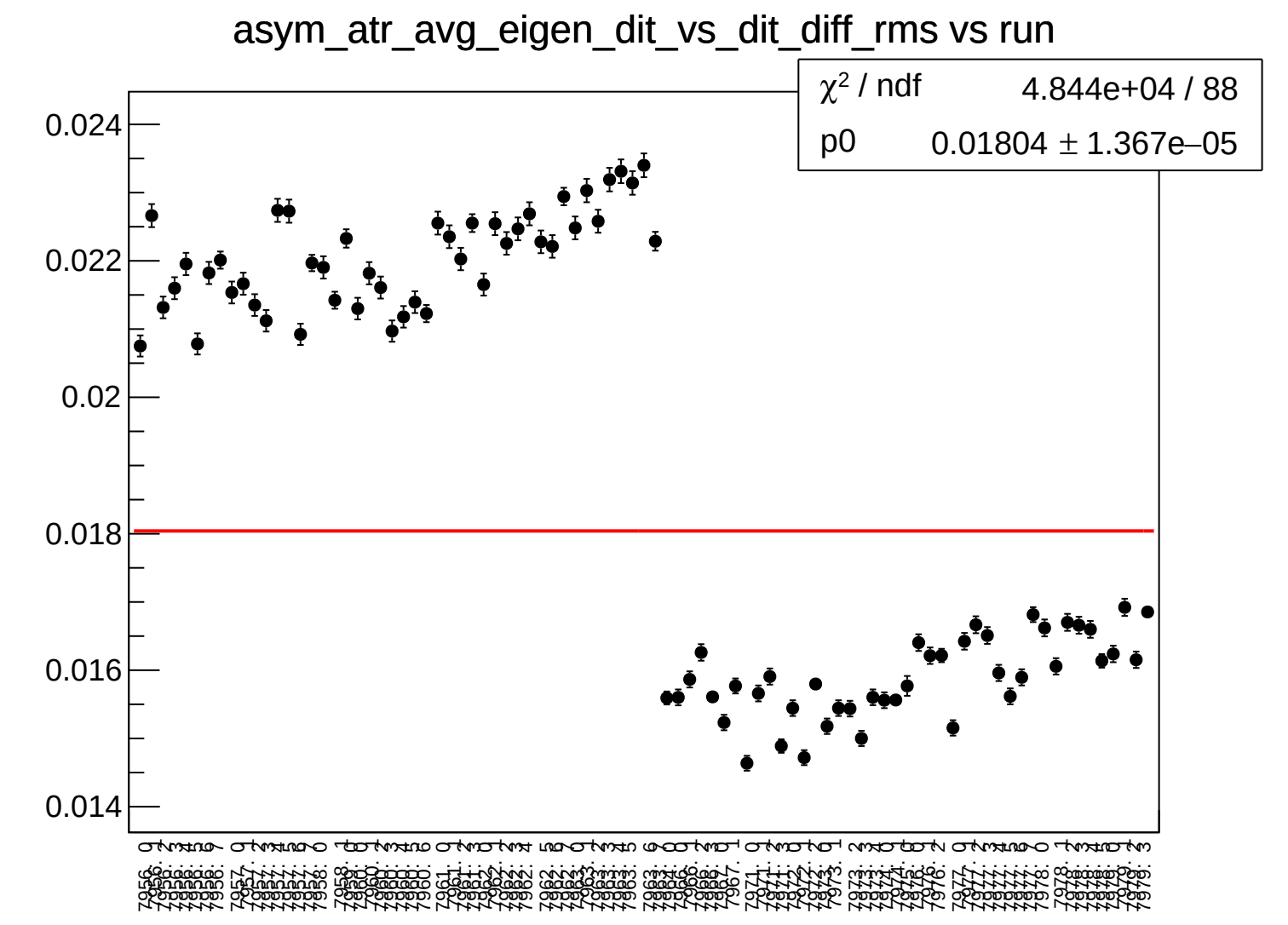

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.84 / 88
p0 −0.5648 ± 0.3632
pull
Entries 89
Mean 328.6
Std Dev 0

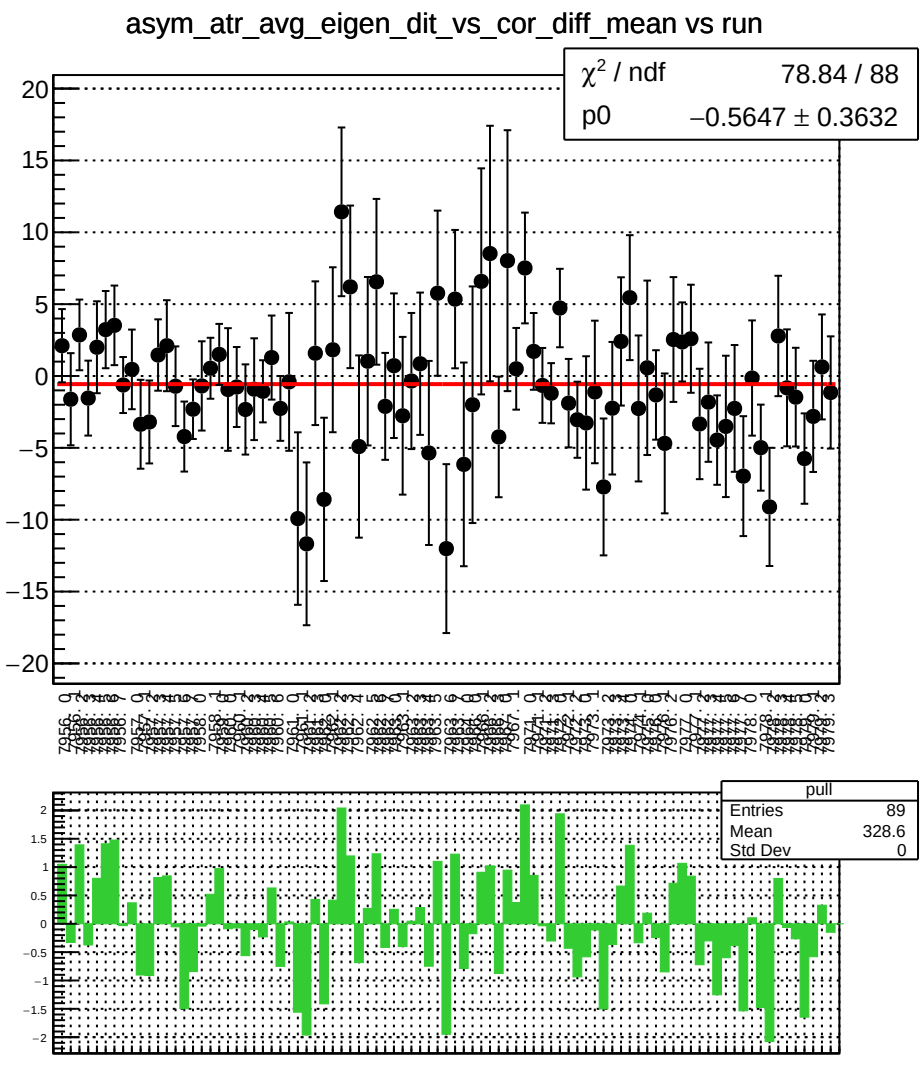

pull1D
Entries 89
Mean −0.01606
Std Dev 0.941

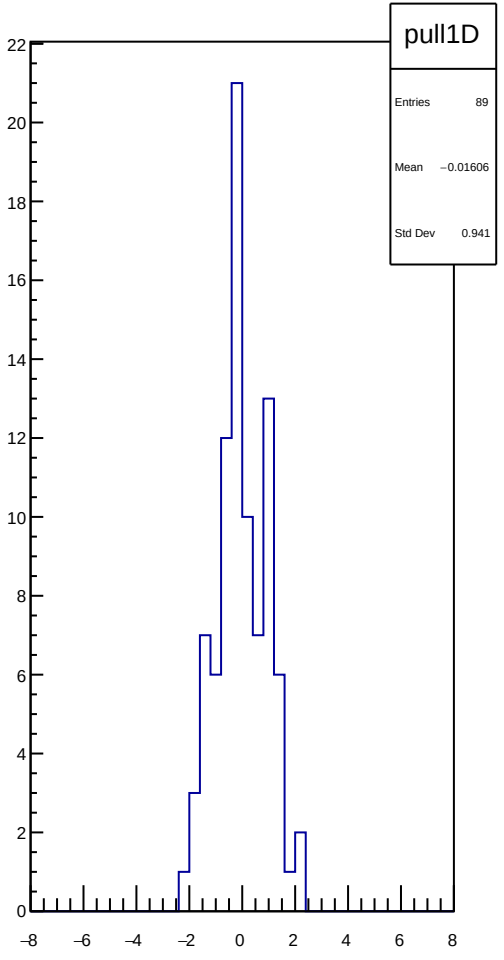

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.852e+05 / 88
p0 325.4 ± 0.2568
900
800
700
600
500
400
300
200

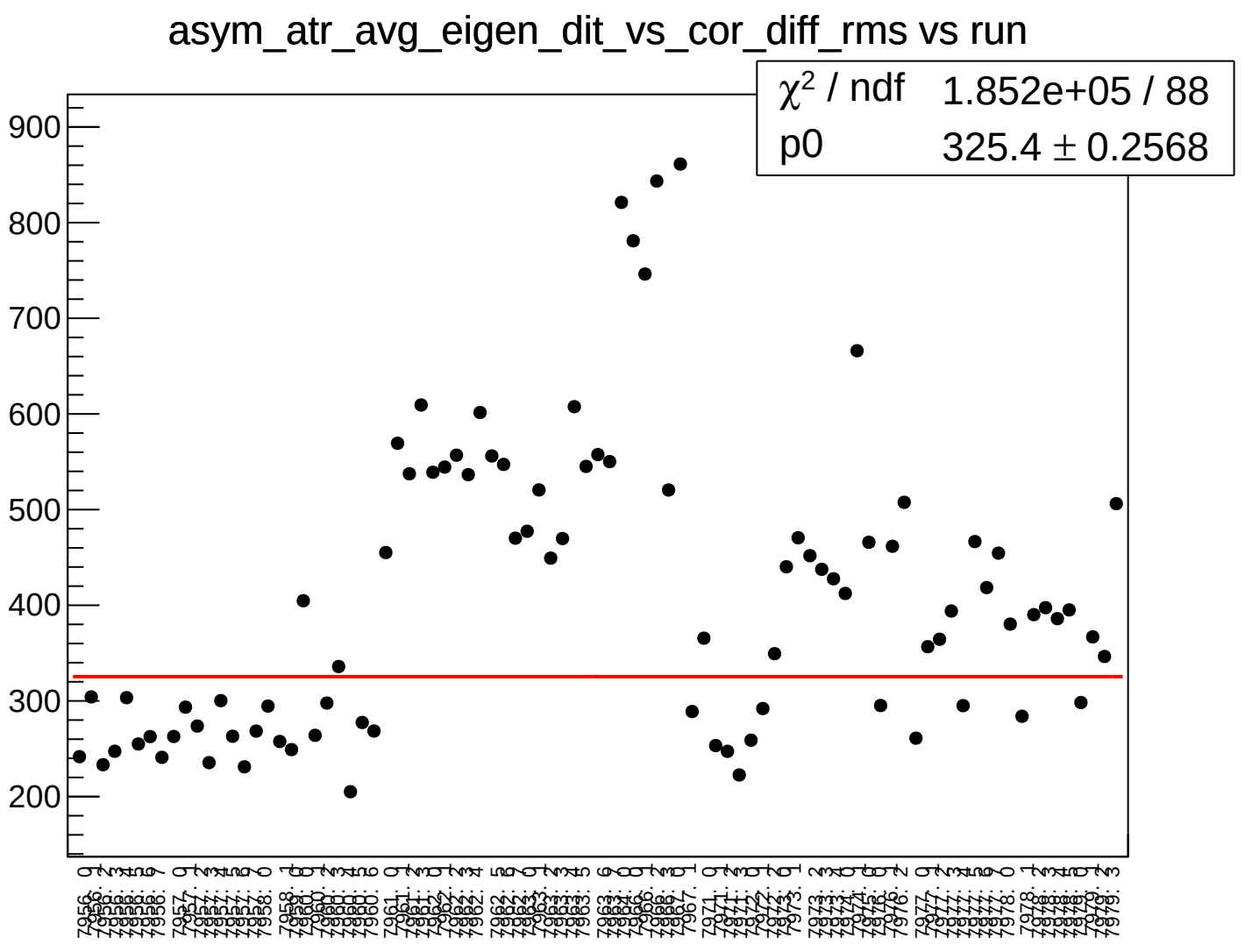

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 84.54 / 88
p0 9.936e−06 ± 1.933e−05
pull
Entries 89
Mean 35.36
Std Dev 0

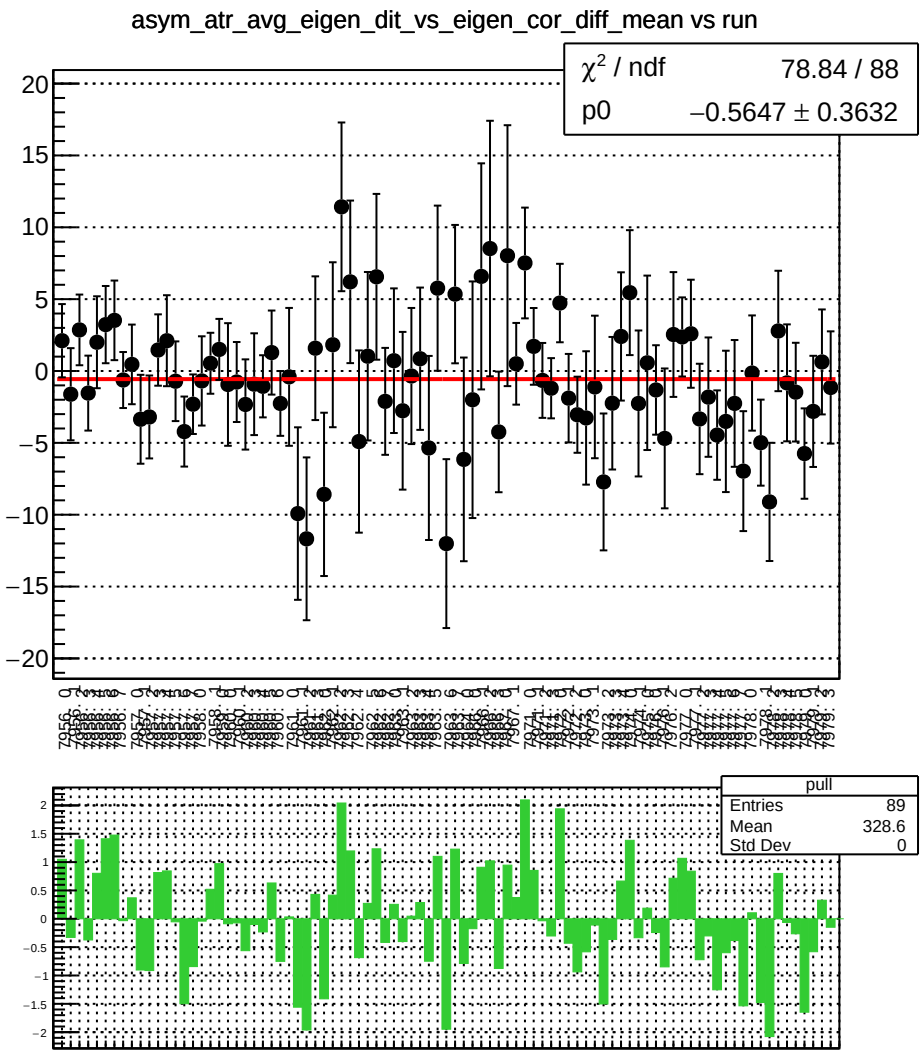

pull1D
Entries 89
Mean 0.05006
Std Dev 0.9734

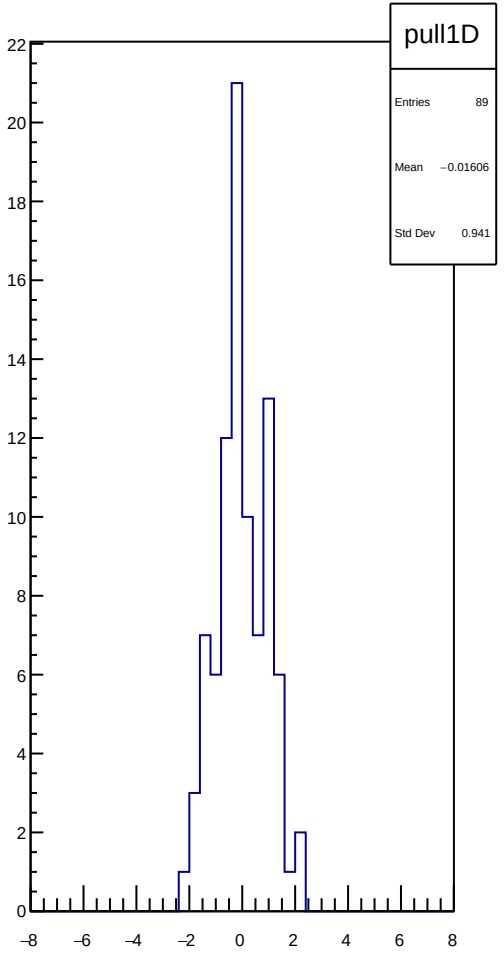

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.844e+04 / 88
p0 0.01804 ± 1.367e−05
0.024
0.022
0.02
0.018
0.016
0.014

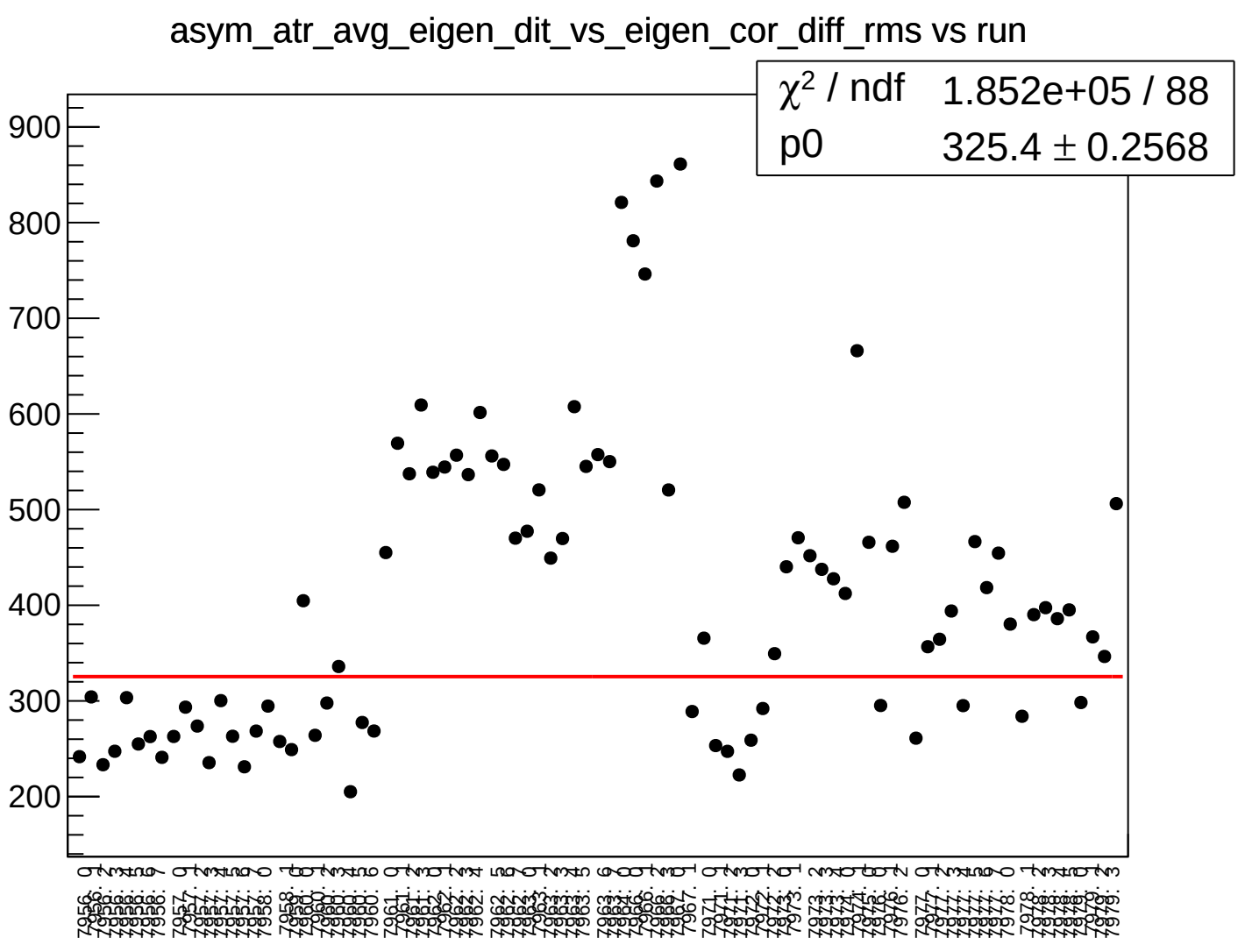

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.84 / 88
p0 −0.5647 ± 0.3632
pull
Entries 89
Mean 328.6
Std Dev 0

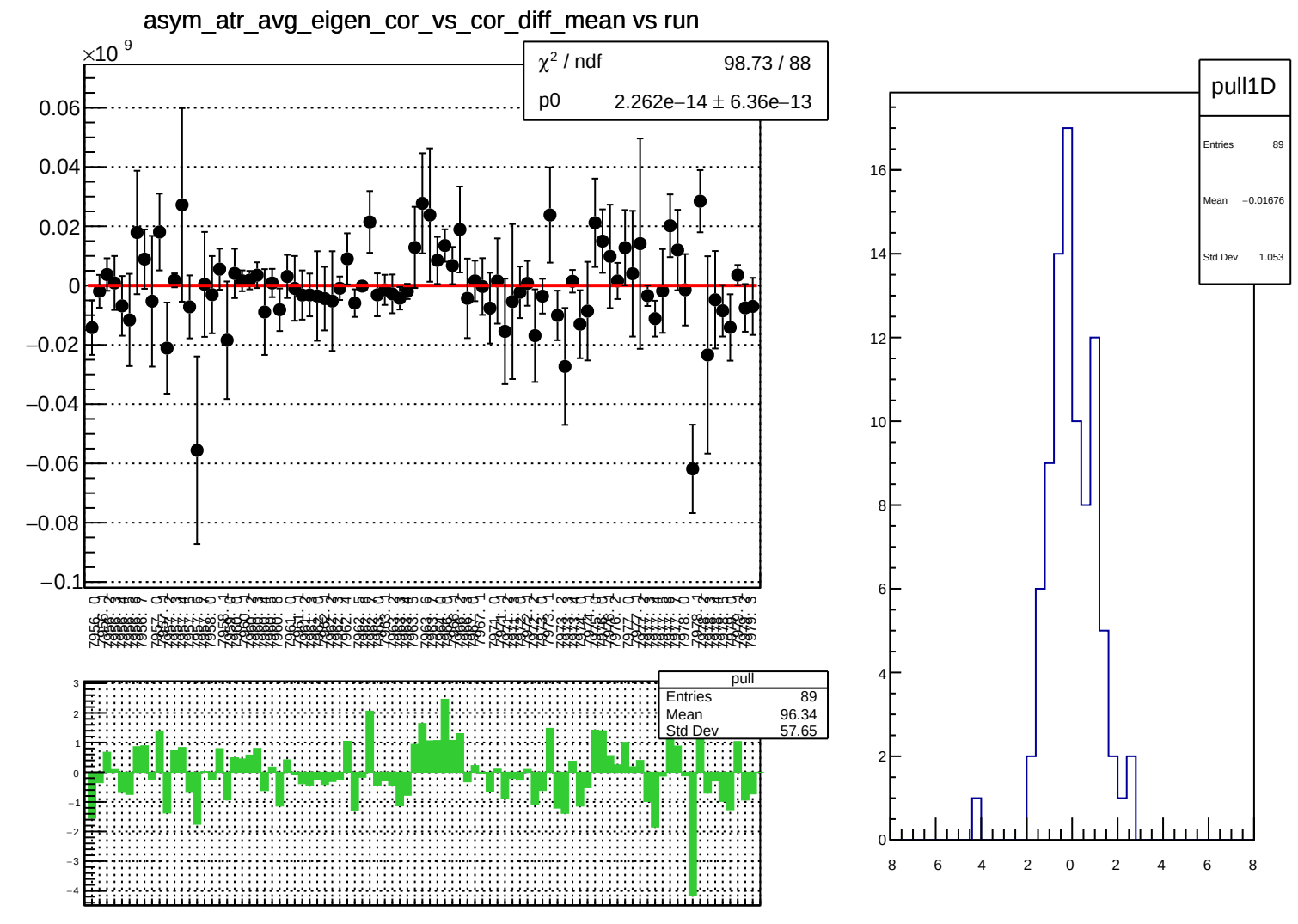

pull1D
Entries 89
Mean −0.01606
Std Dev 0.941

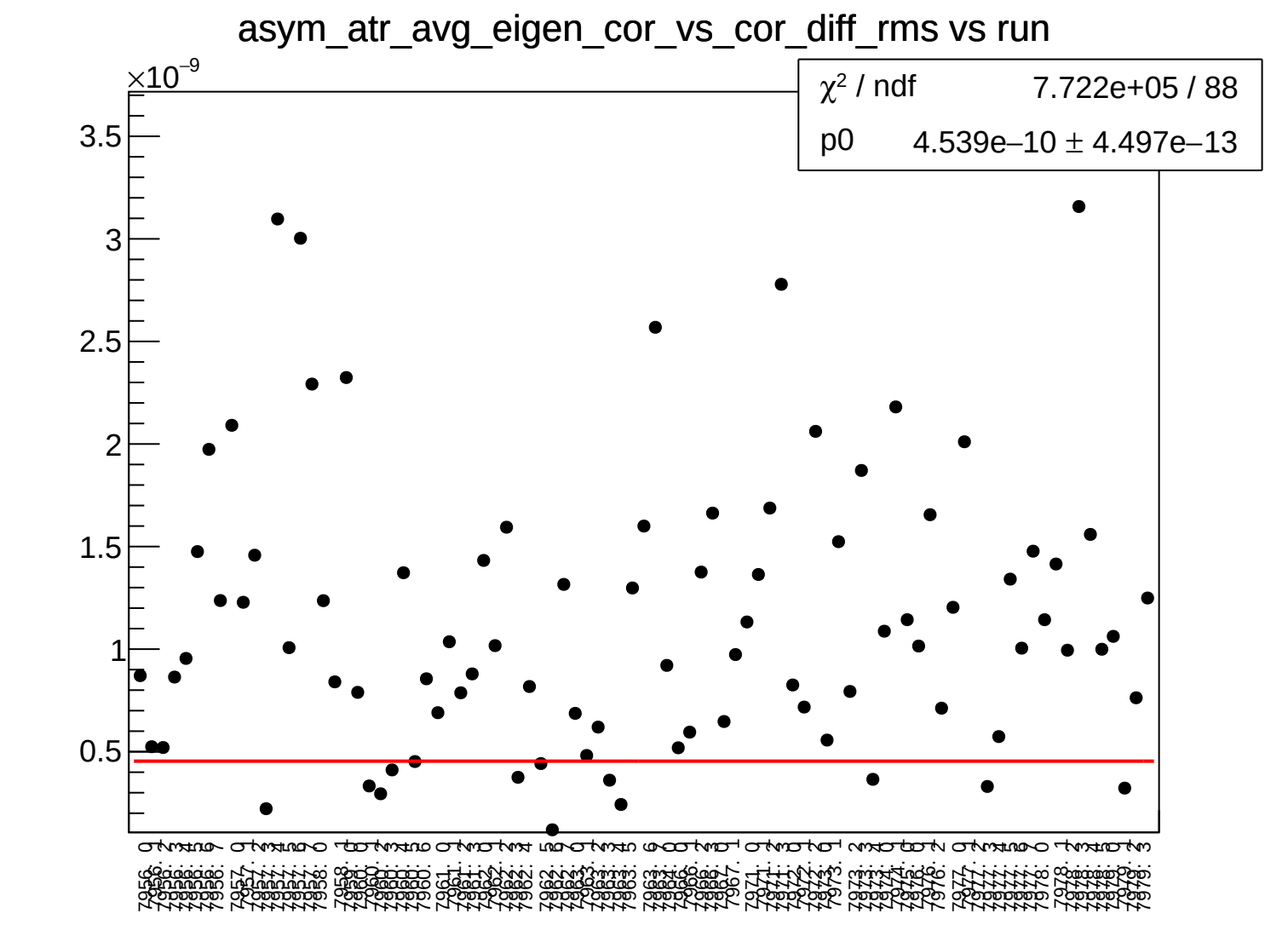

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.852e+05 / 88
p0 325.4 ± 0.2568
900
800
700
600
500
400
300
200

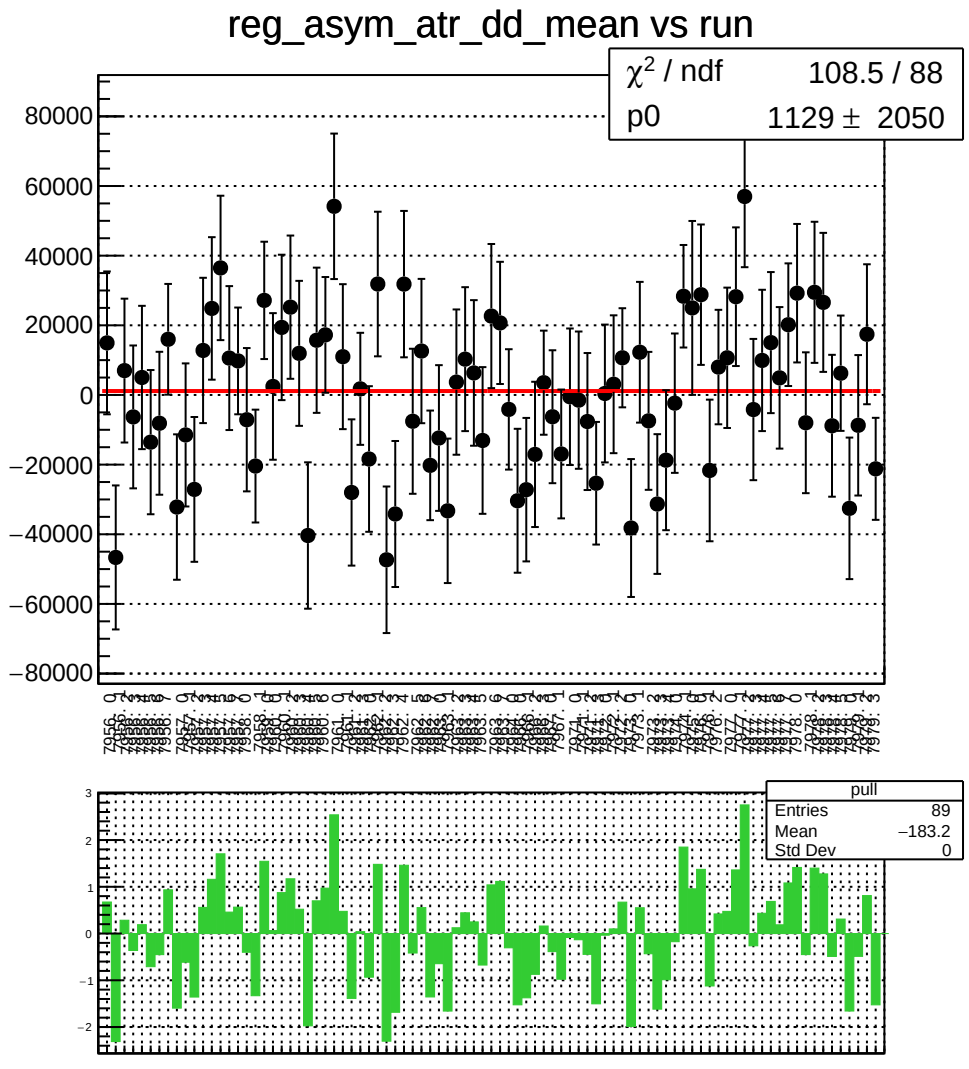

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.84 / 88
p0 −0.5647 ± 0.3632
pull
Entries 89
Mean 328.6
Std Dev 0

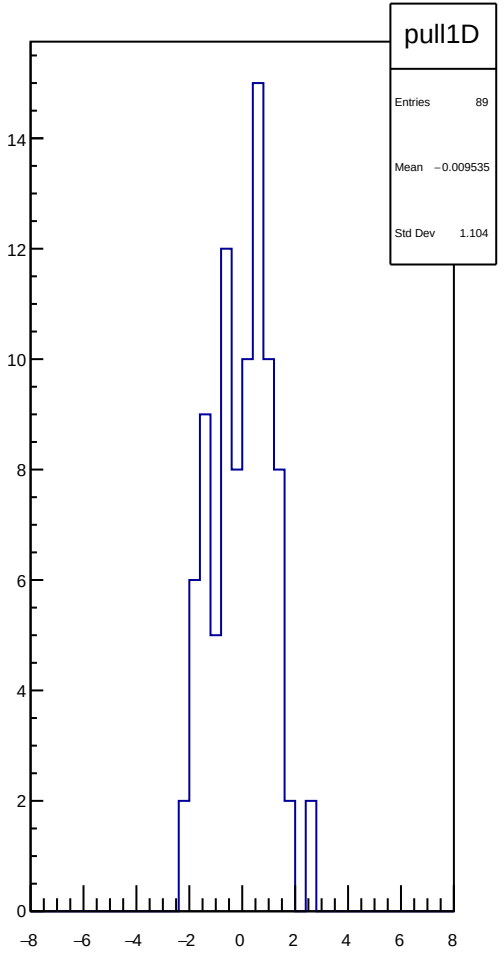

pull1D
Entries 89
Mean −0.01606
Std Dev 0.941

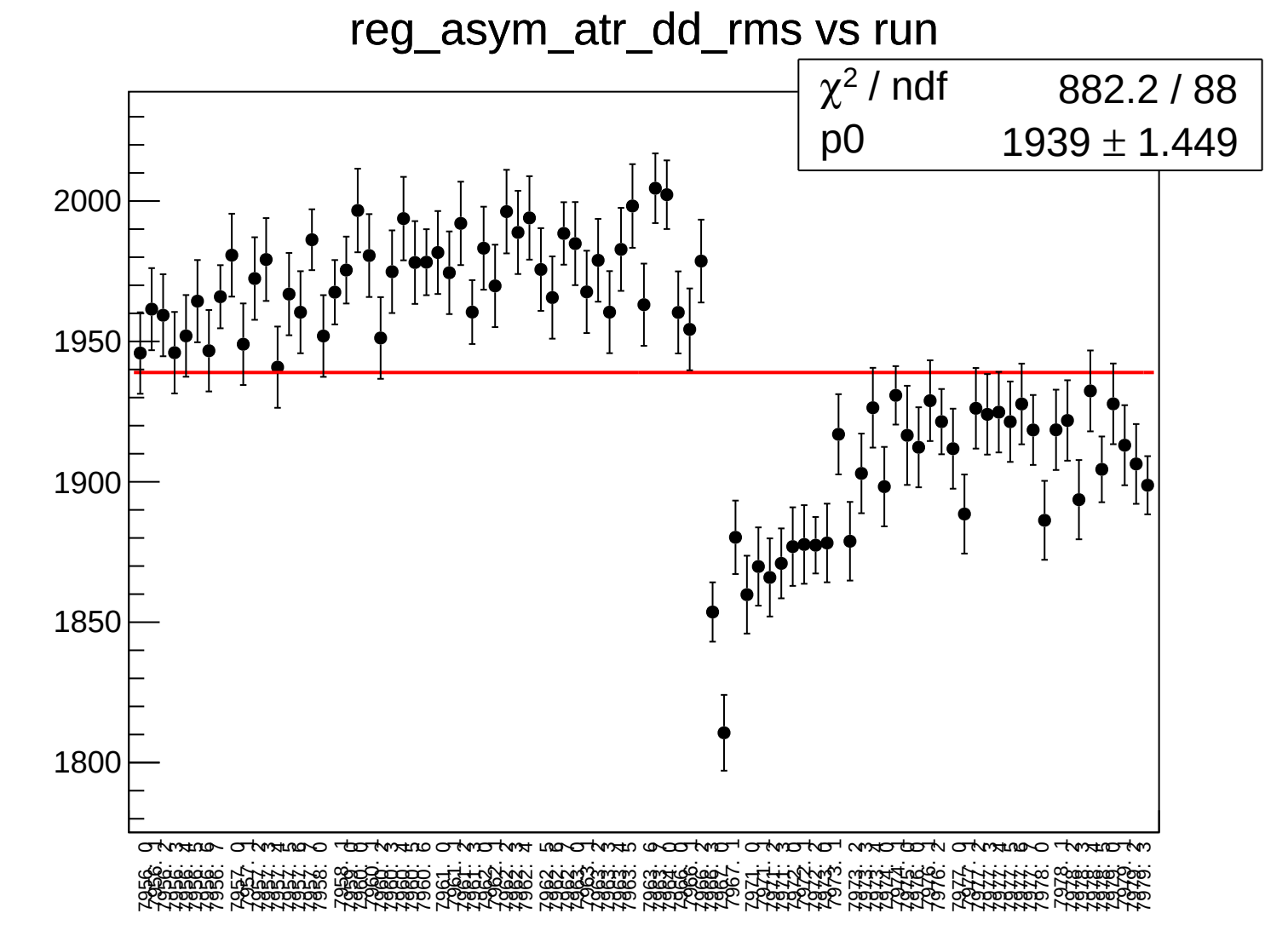

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.852e+05 / 88
p0 325.4 ± 0.2568
900
800
700
600
500
400
300
200

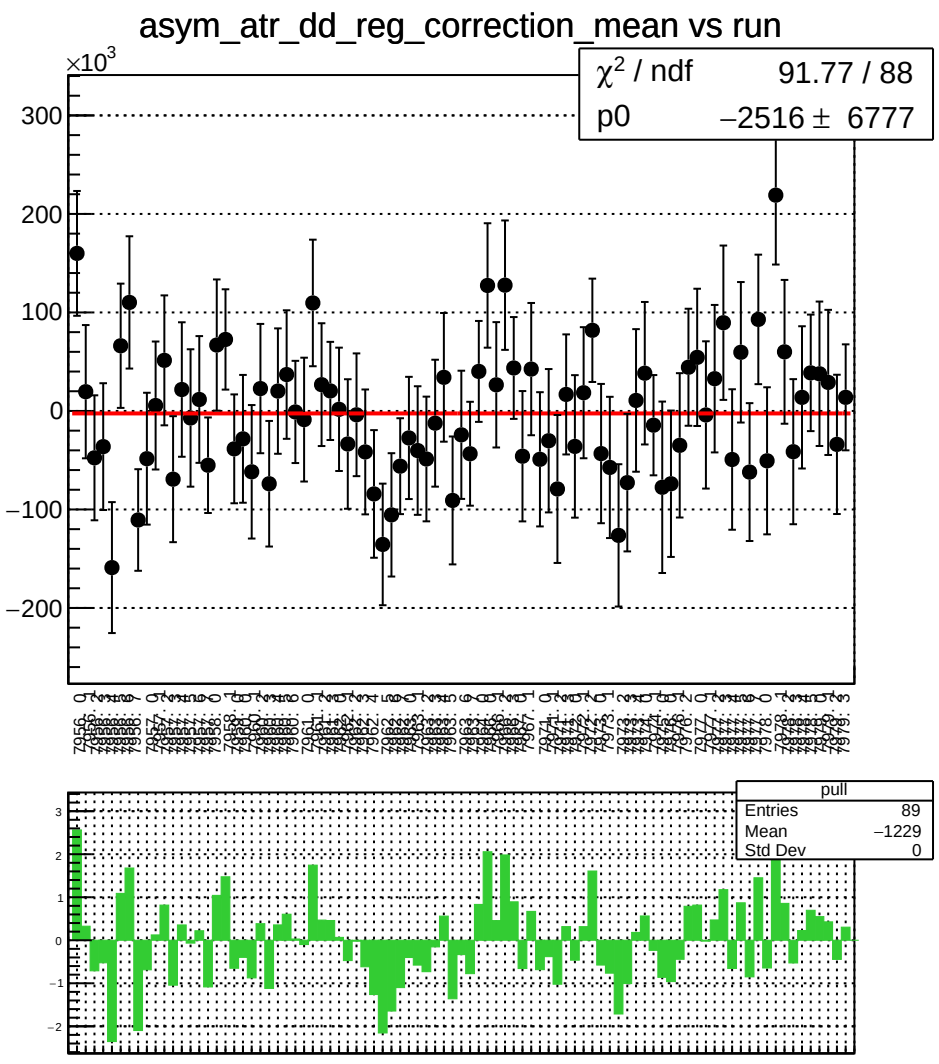

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 98.73 / 88
p0 2.262e−14 ± 6.36e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 89
Mean 96.34
Std Dev 57.65
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean −0.01676
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

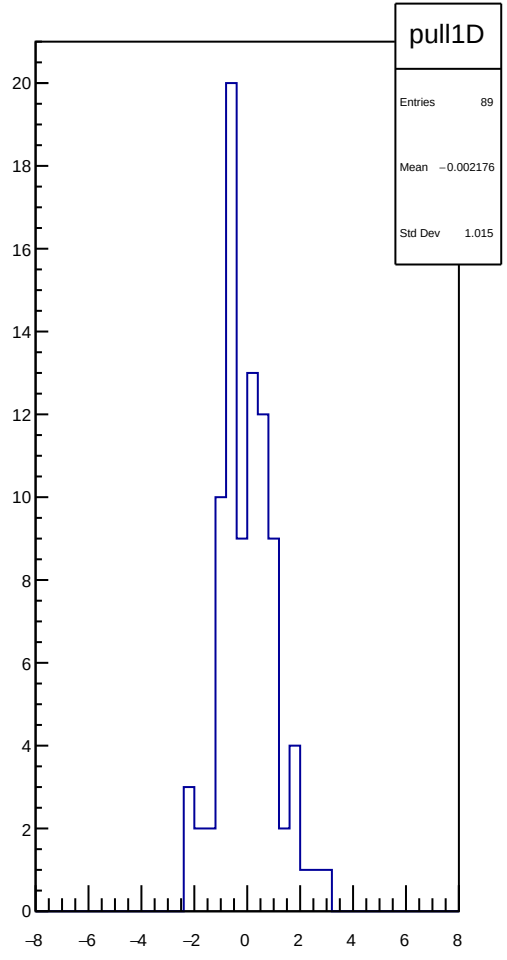

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.722e+05 / 88
p0 4.539e−10 ± 4.497e−13
3.5
3
2.5
2
1.5
1
0.5

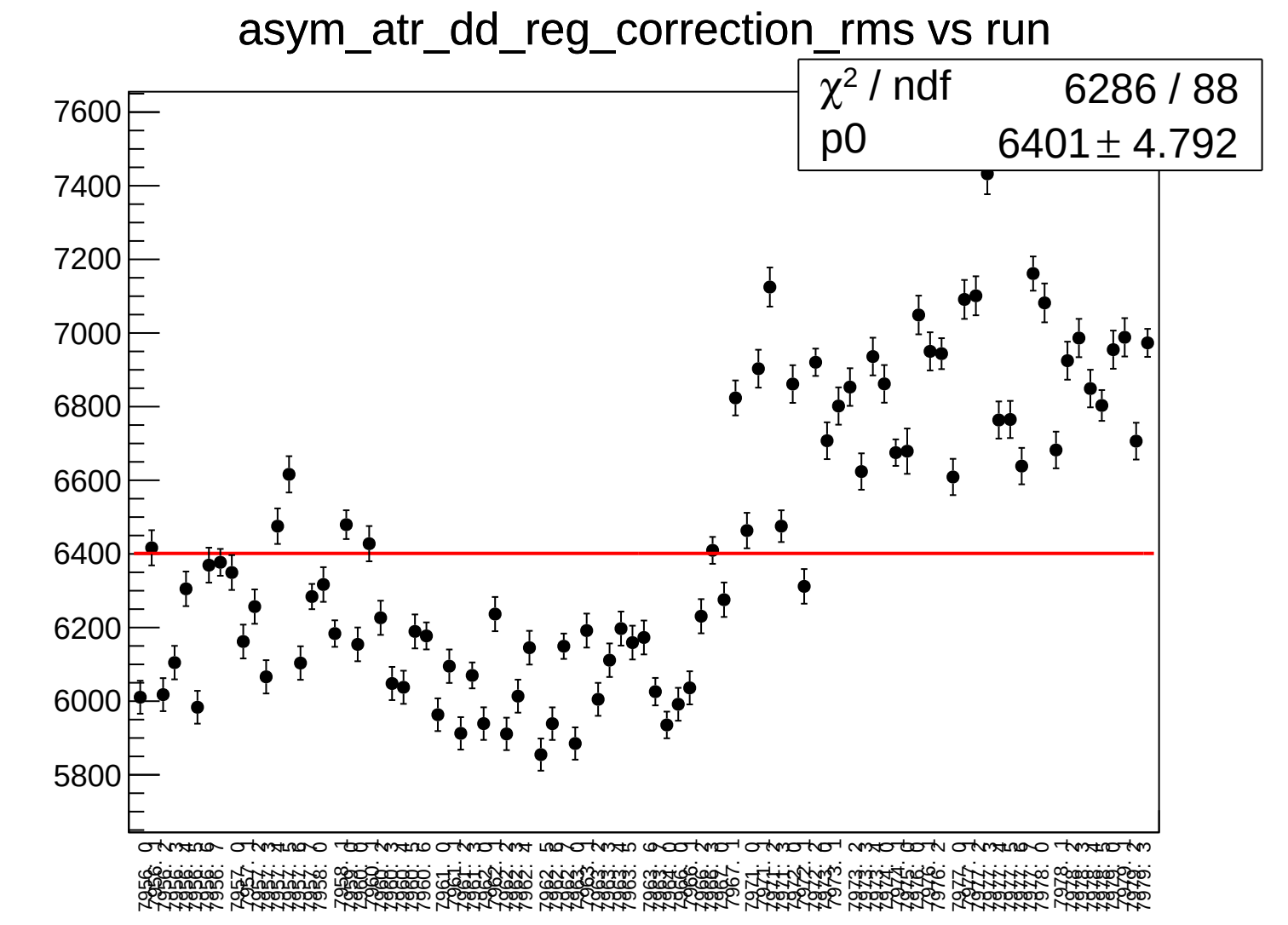

reg_asym_atr_dd_mean vs run
χ² / ndf 108.5 / 88
p0 1129 ± 2050
pull
Entries 89
Mean −183.2
Std Dev 0

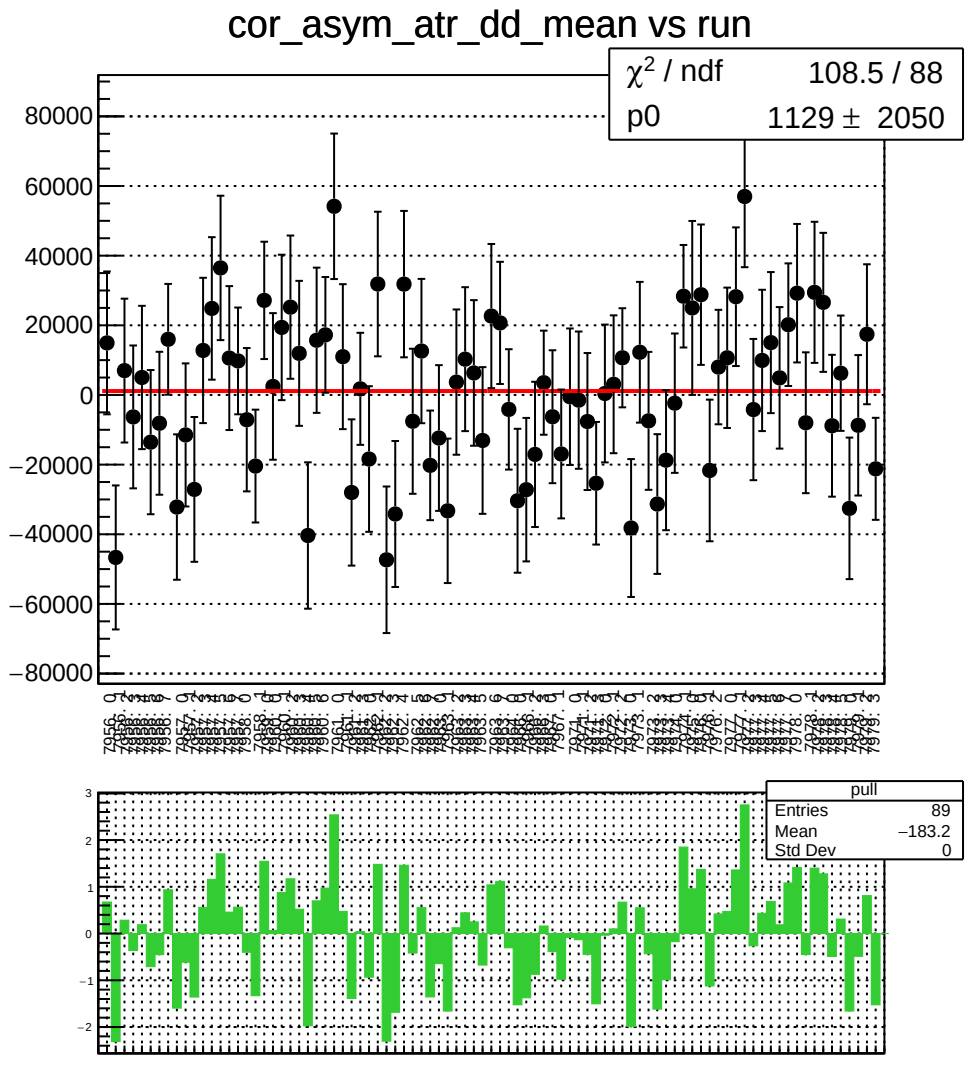

pull1D
Entries 89
Mean −0.009535
Std Dev 1.104

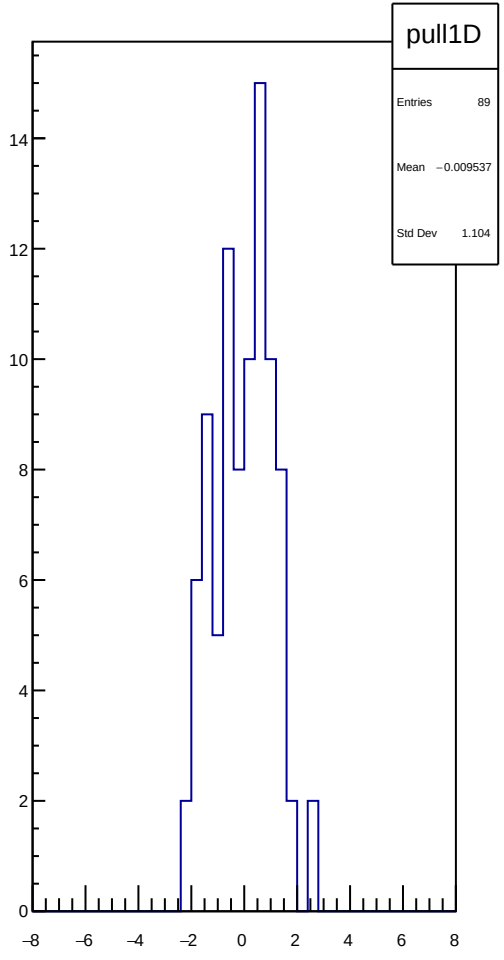

reg_asym_atr_dd_rms vs run
$\chi^2$ / ndf 882.2 / 88
p0 1939 ± 1.449
2000
1950
1900
1850
1800

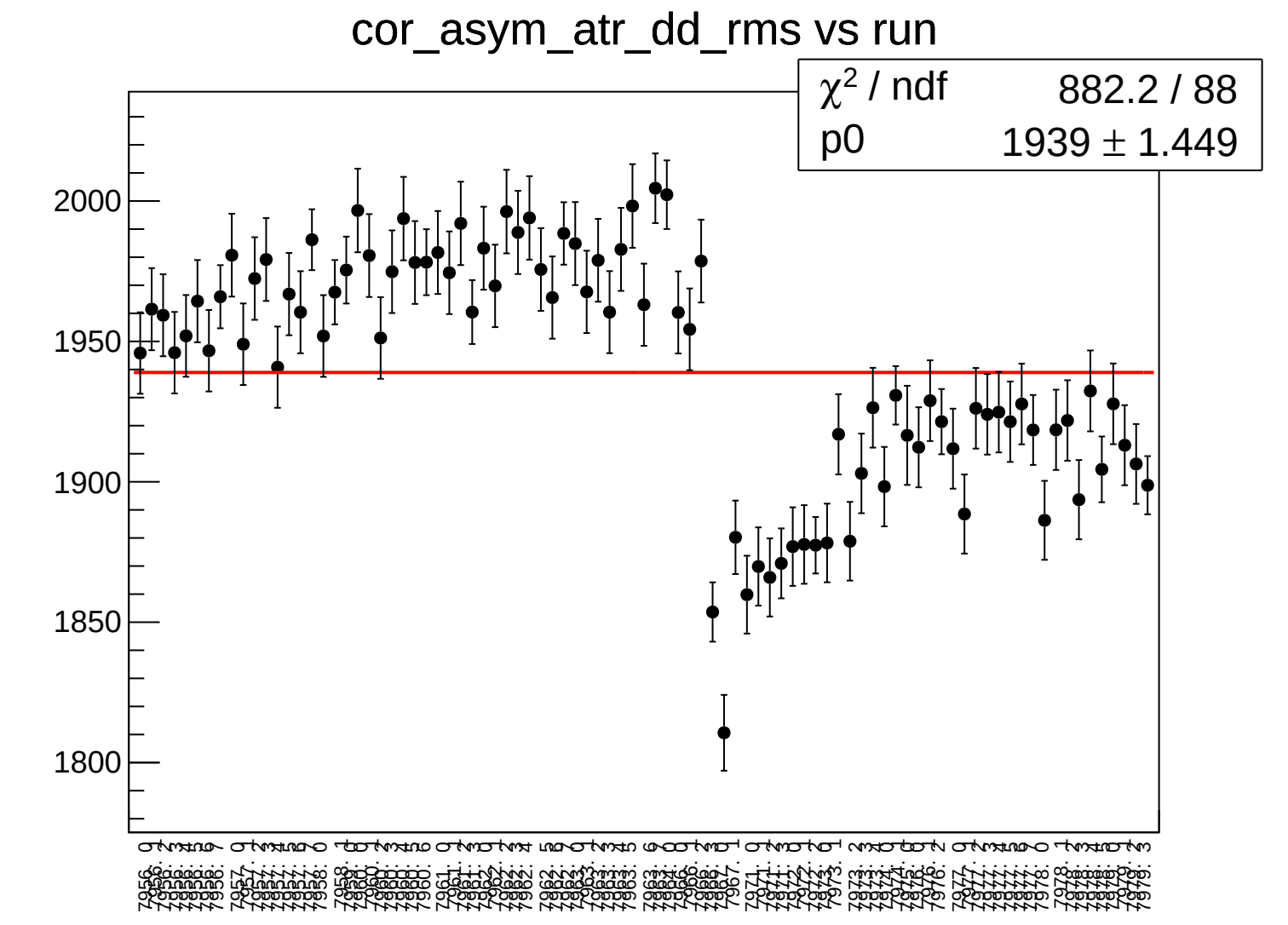

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 91.77 / 88
p0 −2516 ± 6777
300
200
100
0
−100
−200
pull
Entries 89
Mean −1229
Std Dev 0
3
2
1
0
−1
−2

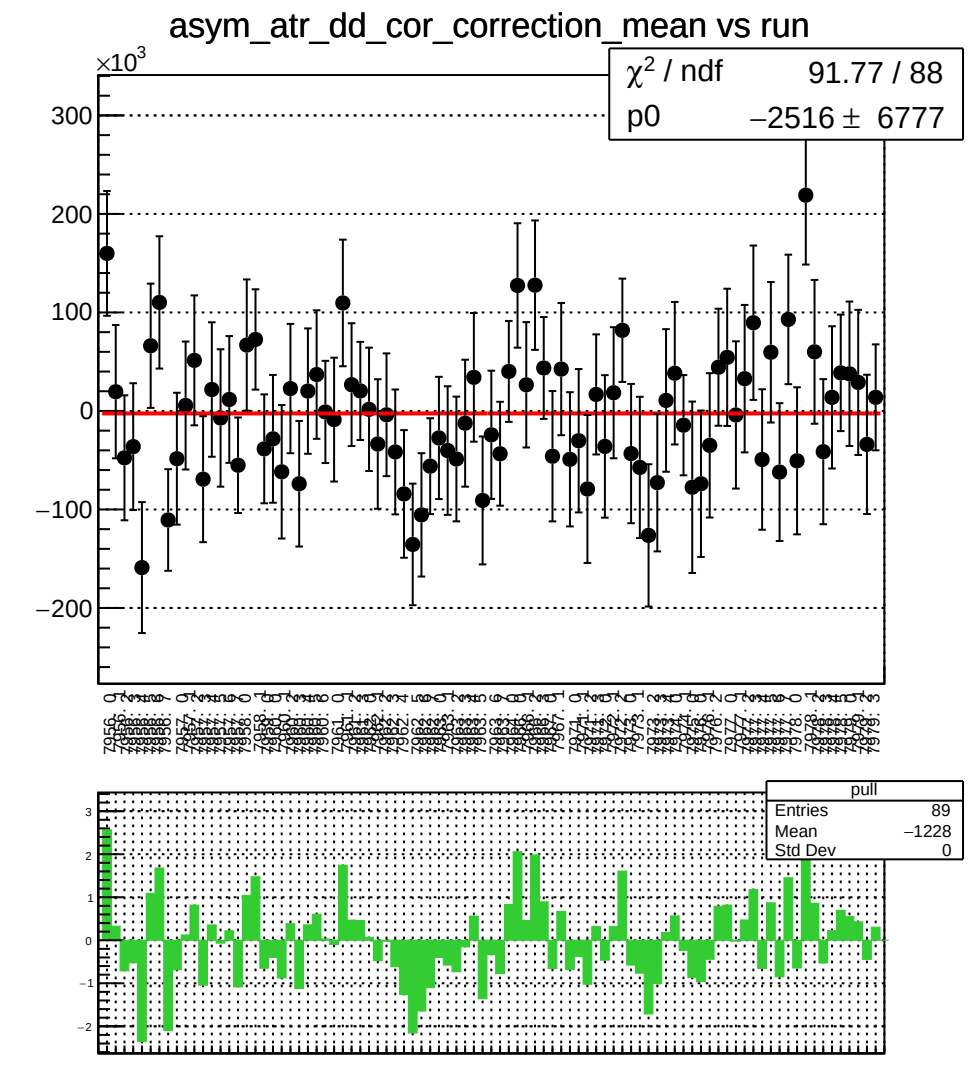

pull1D
Entries 89
Mean −0.002176
Std Dev 1.015
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

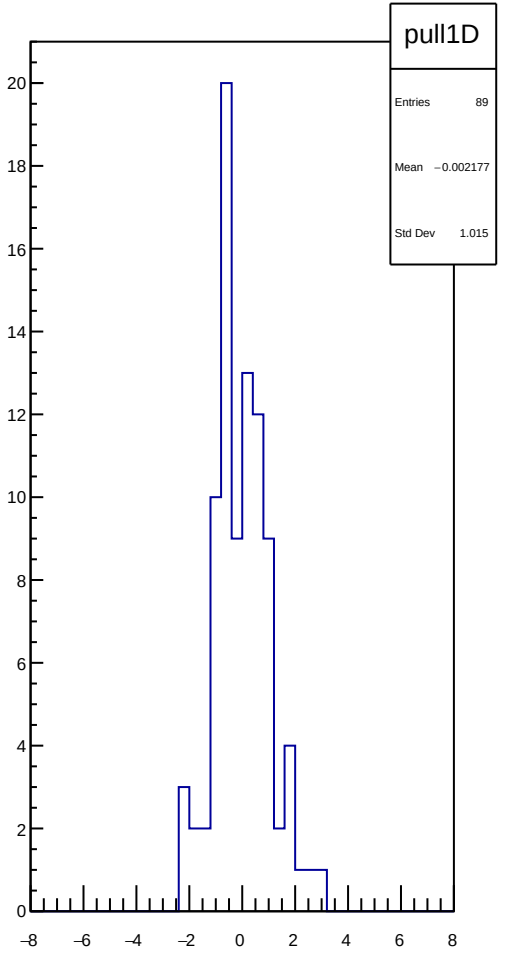

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 6286 / 88
p0 6401 ± 4.792
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

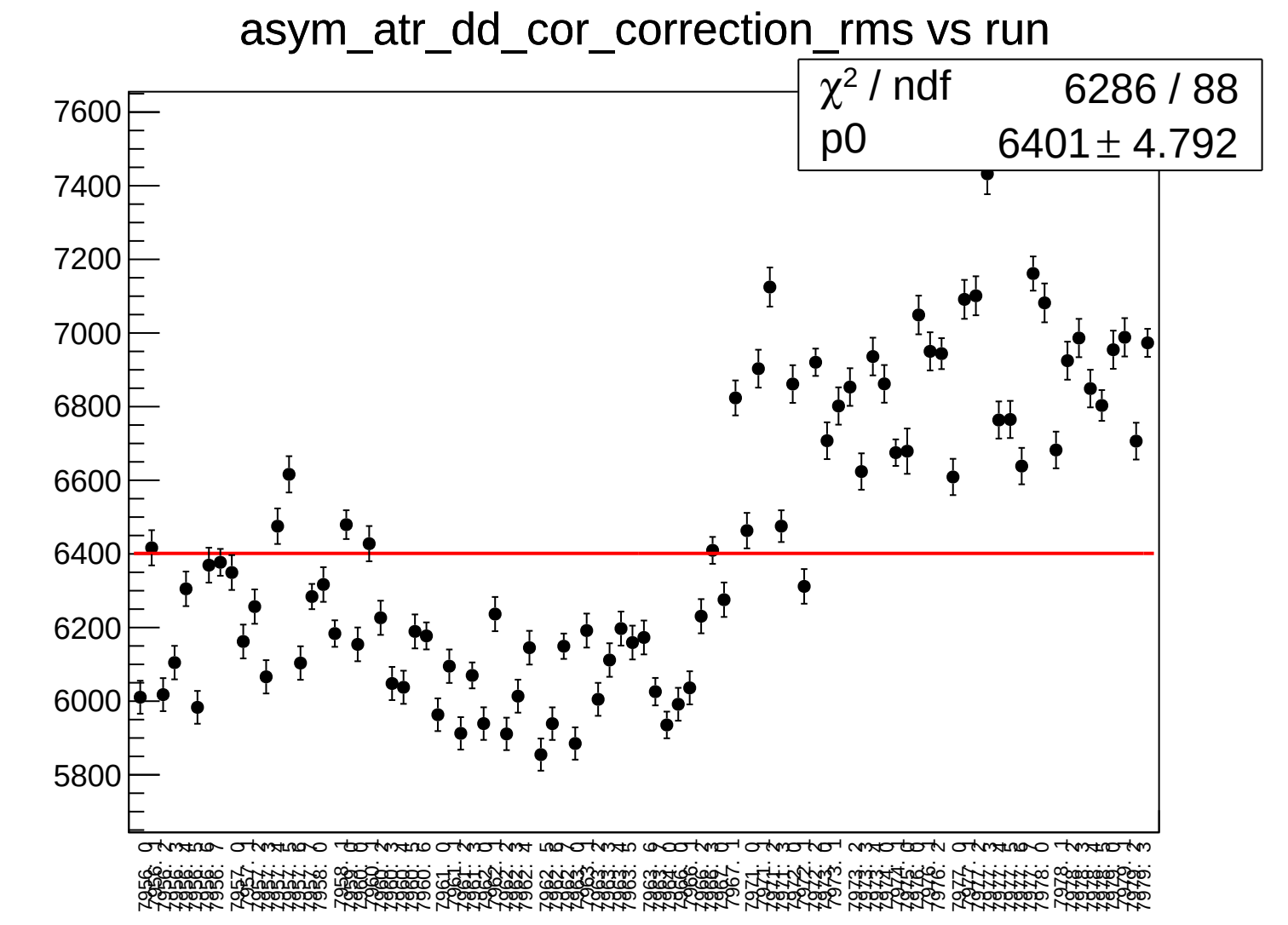

cor_asym_atr_dd_mean vs run
χ² / ndf 108.5 / 88
p0 1129 ± 2050
pull
Entries 89
Mean −183.2
Std Dev 0

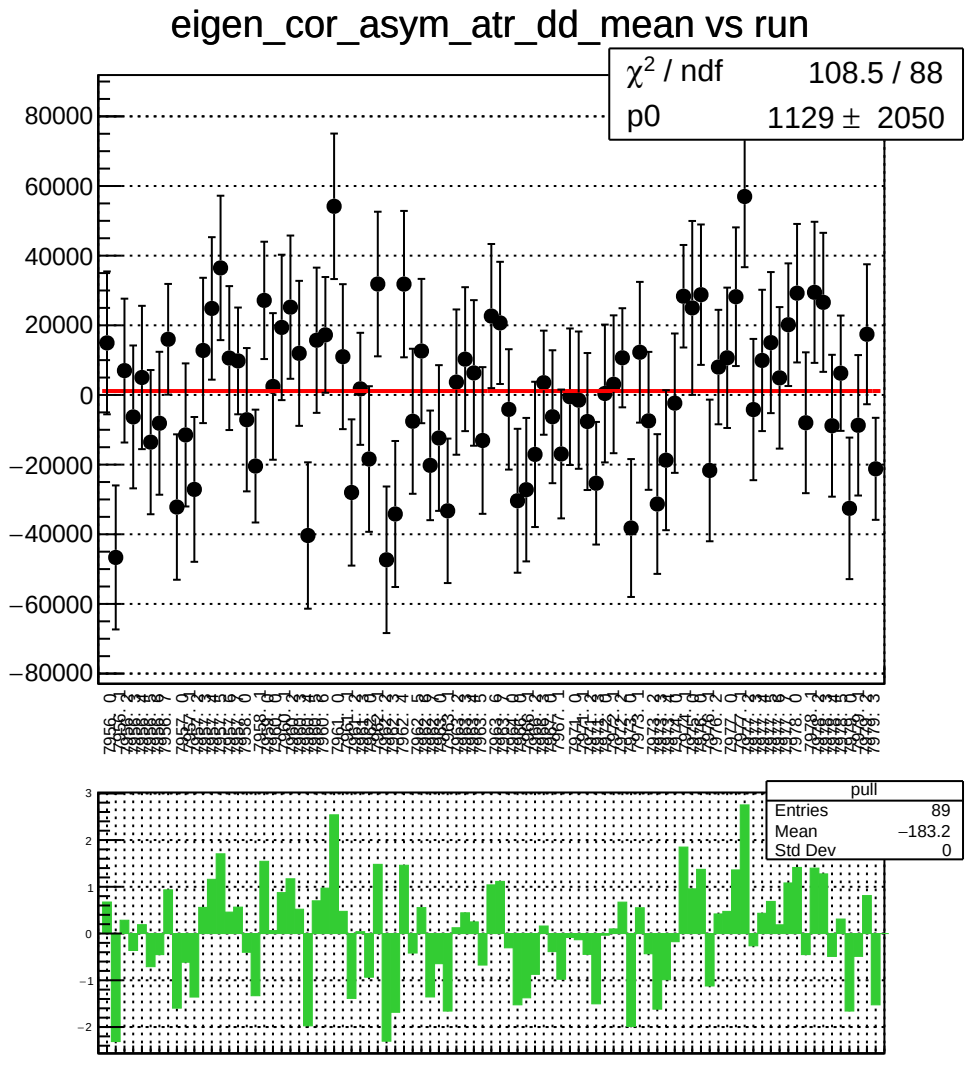

pull1D
Entries 89
Mean −0.009537
Std Dev 1.104

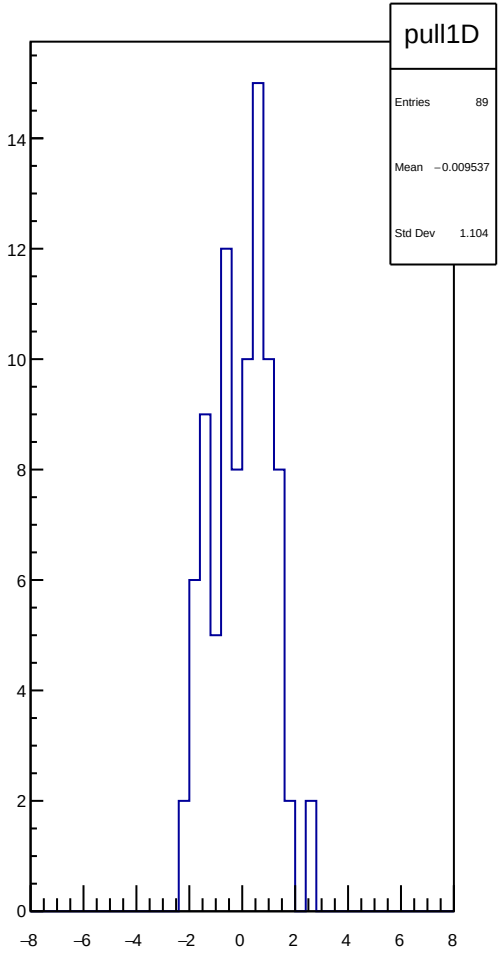

cor_asym_atr_dd_rms vs run
$\chi^2$ / ndf 882.2 / 88
p0 1939 ± 1.449
2000
1950
1900
1850
1800

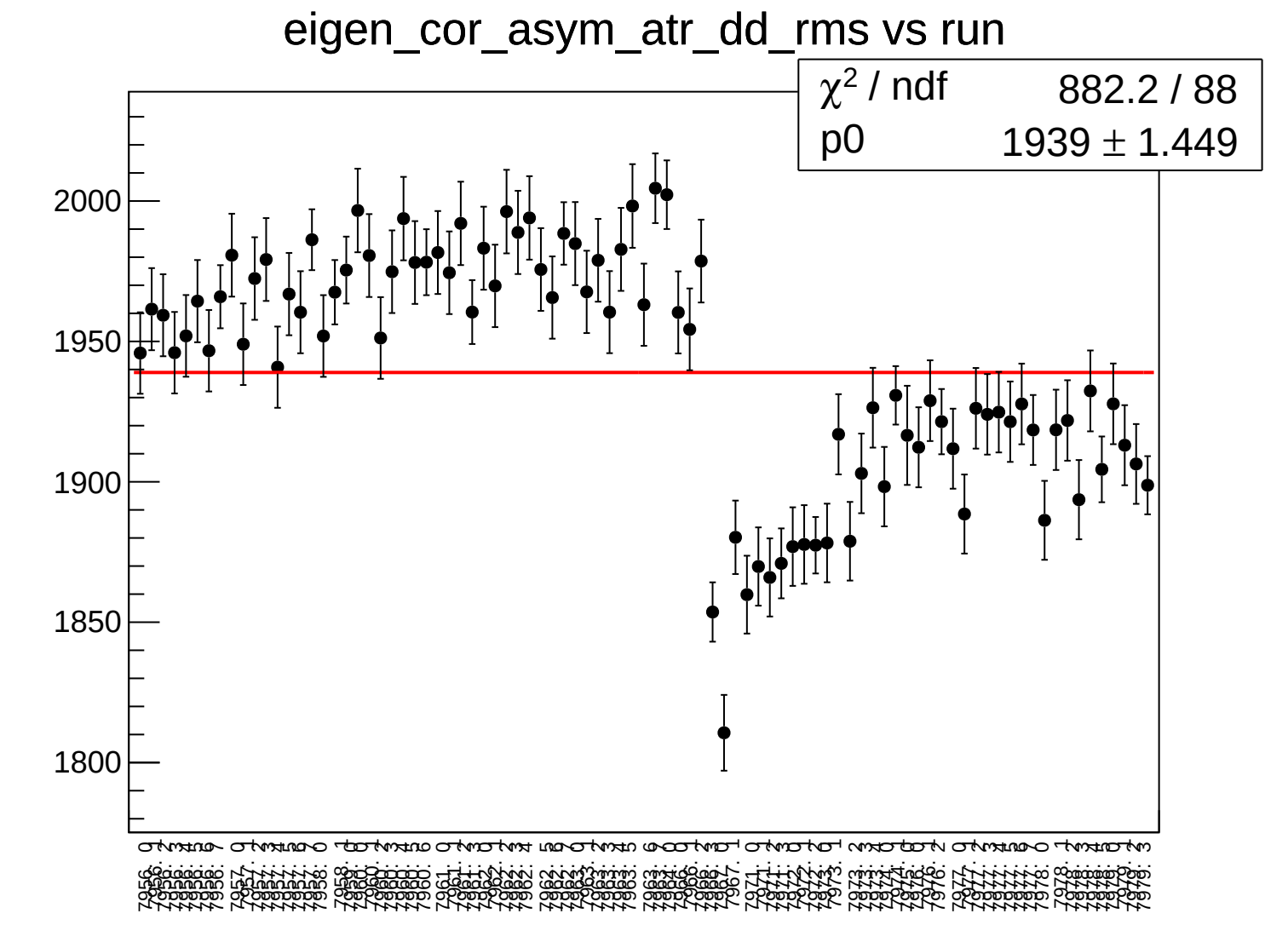

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 91.77 / 88
p0 −2516 ± 6777
300
200
100
0
−100
−200
pull
Entries 89
Mean −1228
Std Dev 0
3
2
1
0
−1
−2

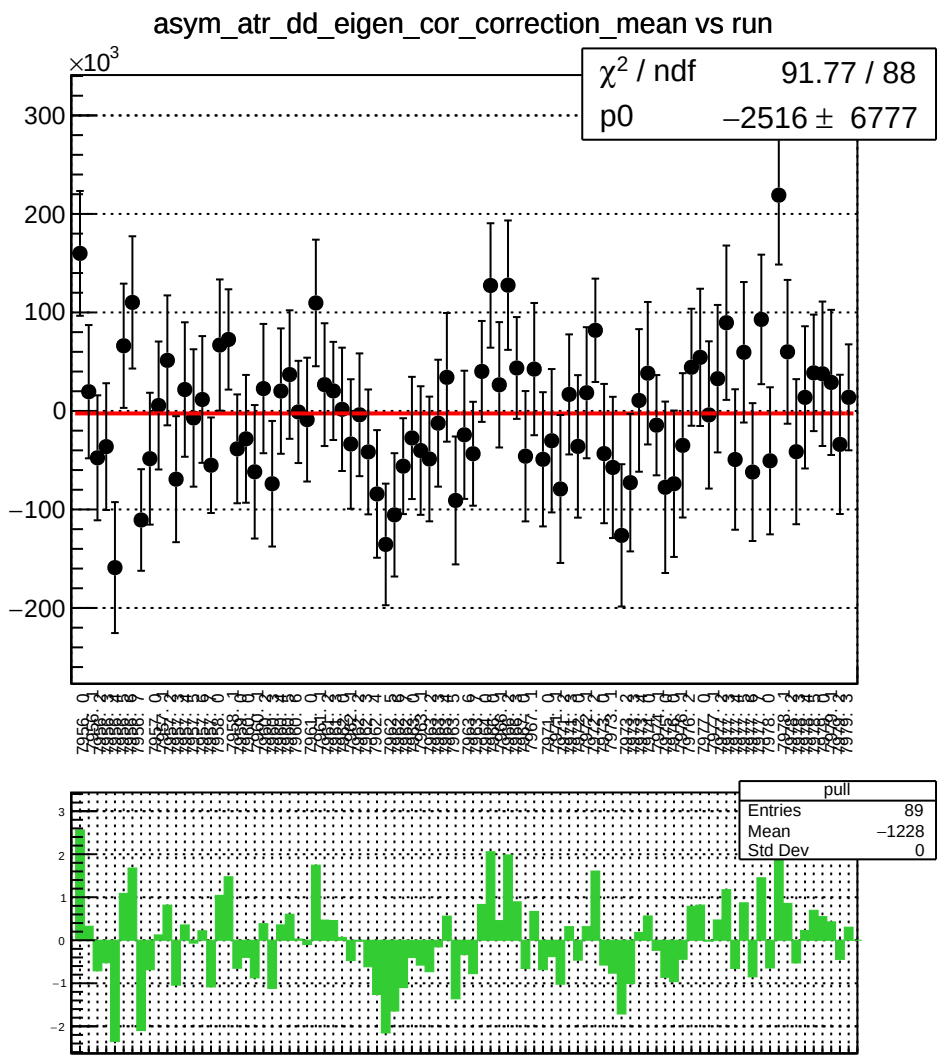

pull1D
Entries 89
Mean −0.002177
Std Dev 1.015
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

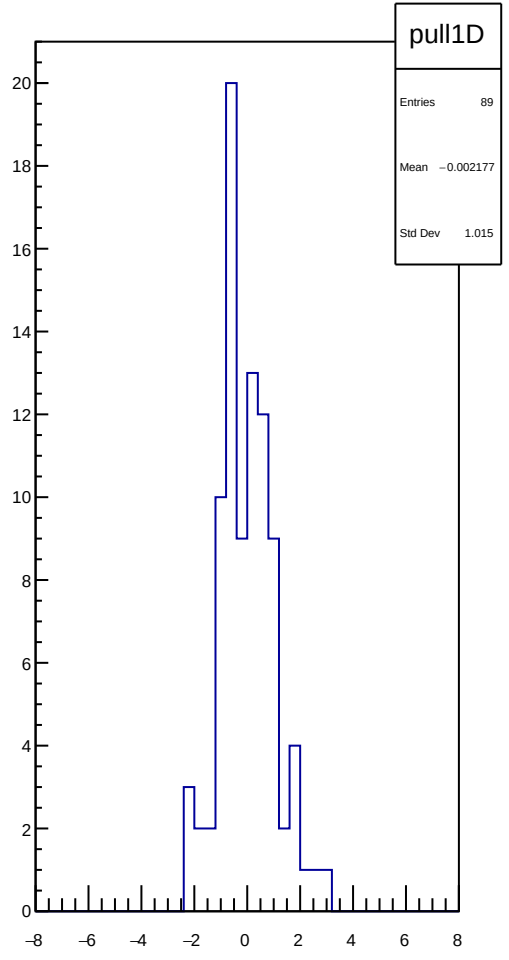

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 6286 / 88
p0 6401 ± 4.792
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

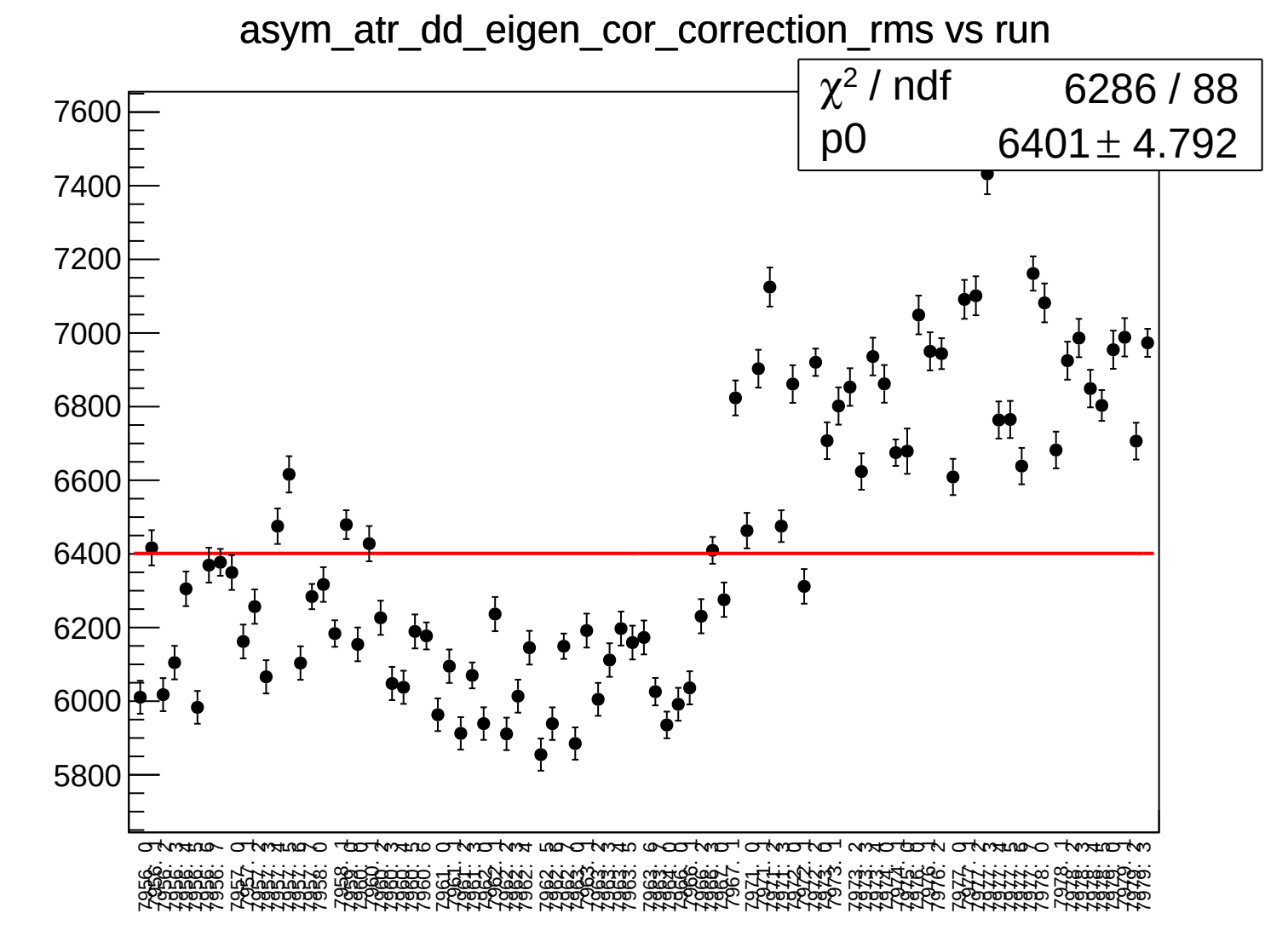

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 108.5 / 88
p0 1129 ± 2050
pull
Entries 89
Mean −183.2
Std Dev 0

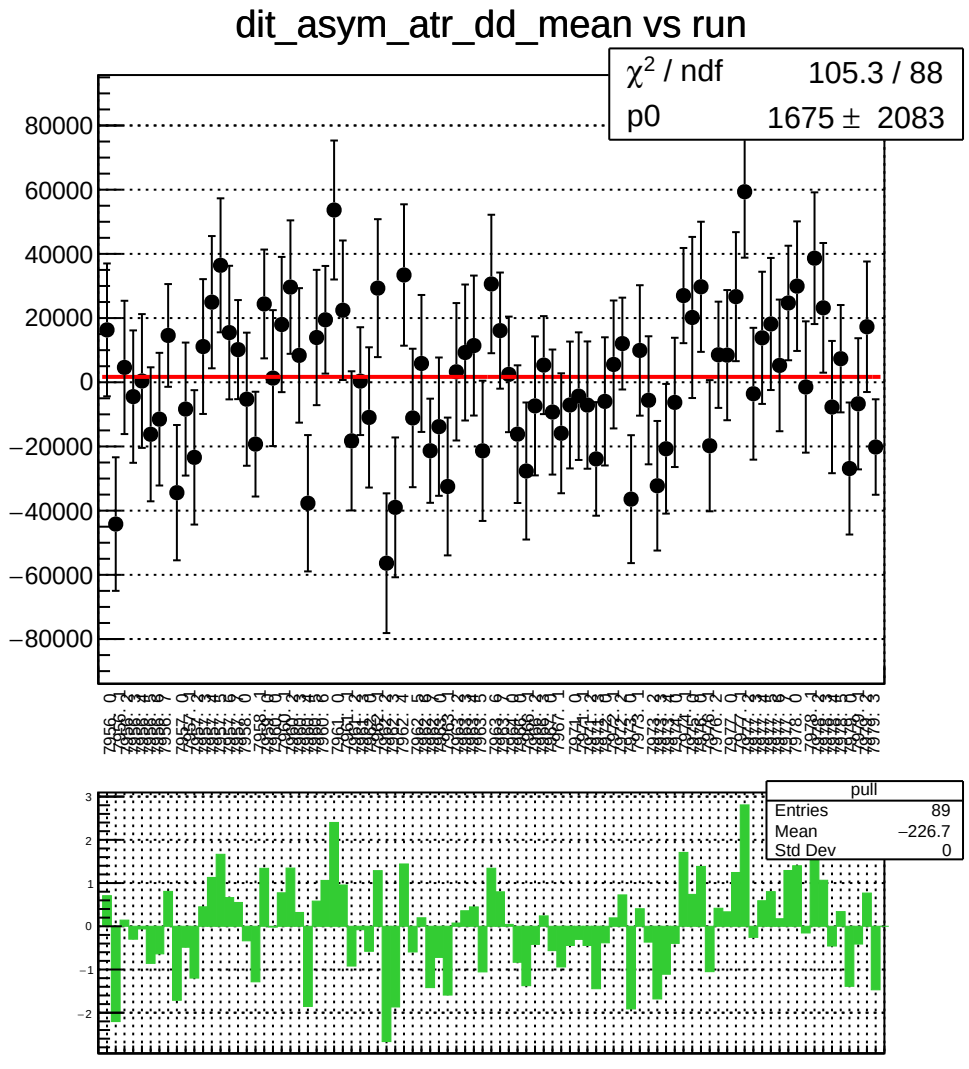

pull1D
Entries 89
Mean −0.009537
Std Dev 1.104

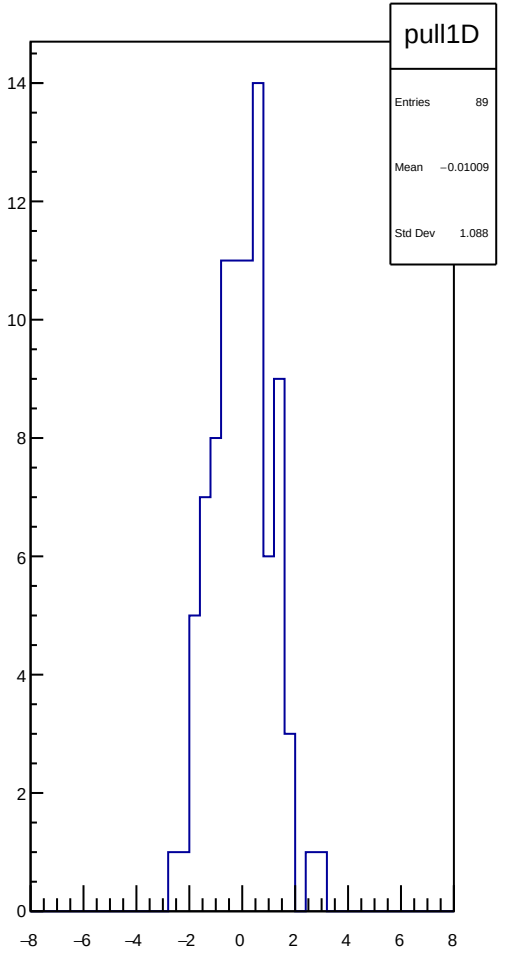

eigen_cor_asym_atr_dd_rms vs run
$\chi^2$ / ndf 882.2 / 88
p0 1939 ± 1.449
2000
1950
1900
1850
1800

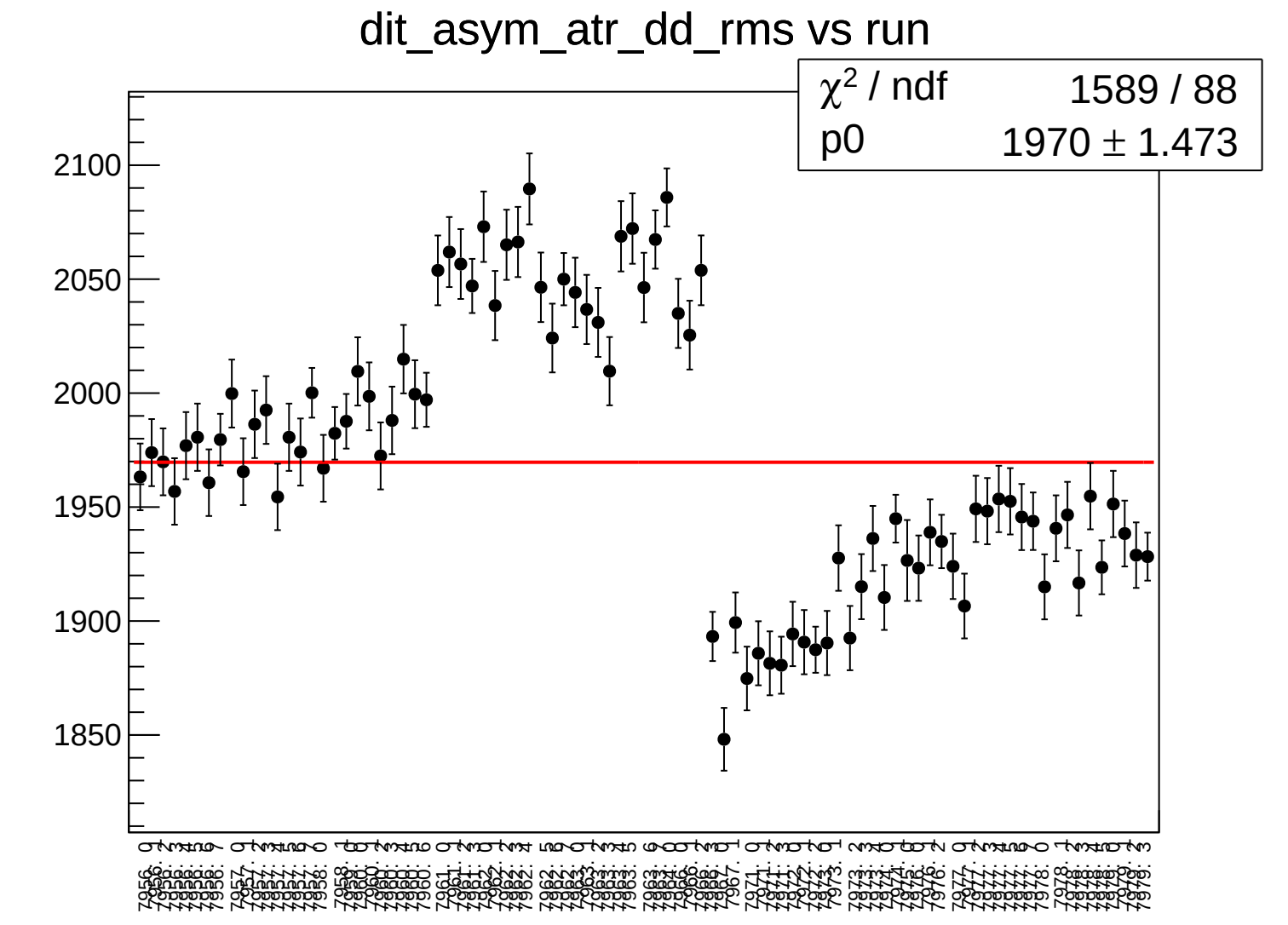

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.77 / 88
p0 −2516 ± 6777
300
200
100
0
−100
−200
pull
Entries 89
Mean −1228
Std Dev 0
3
2
1
0
−1
−2

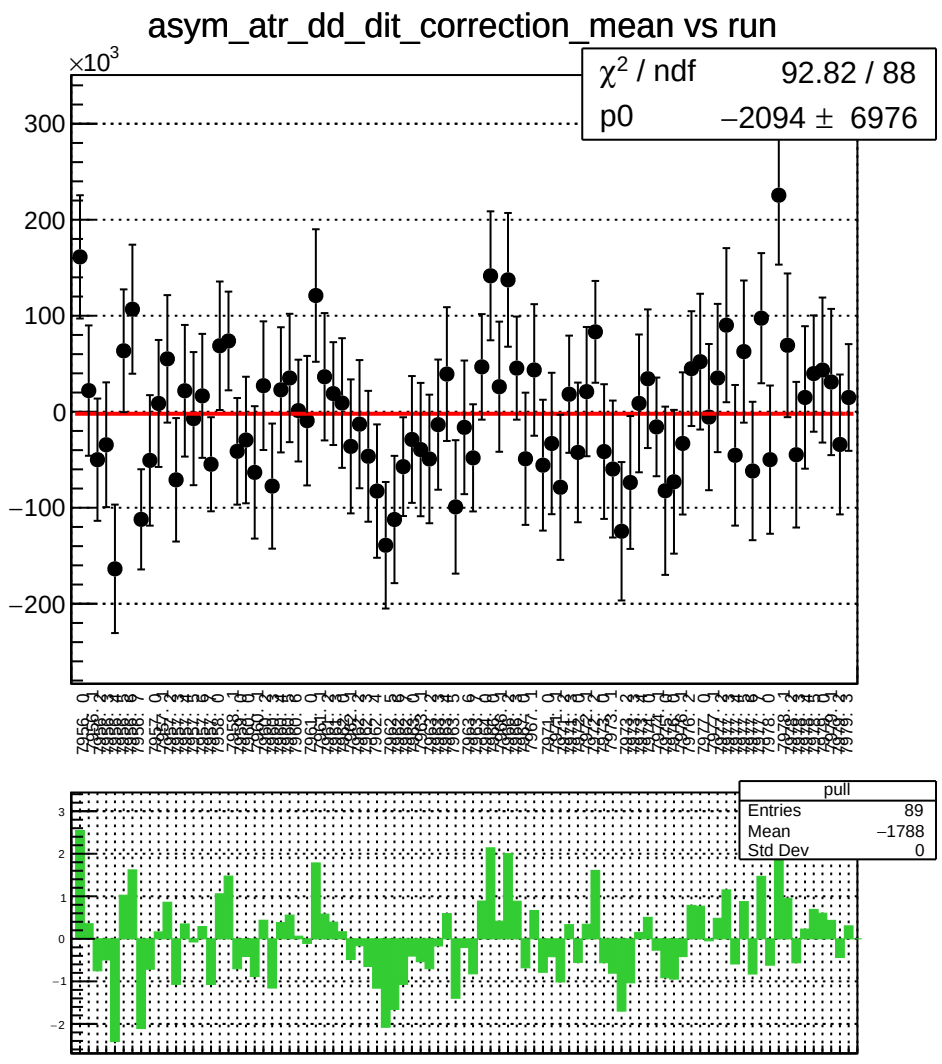

pull1D
Entries 89
Mean −0.002177
Std Dev 1.015
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

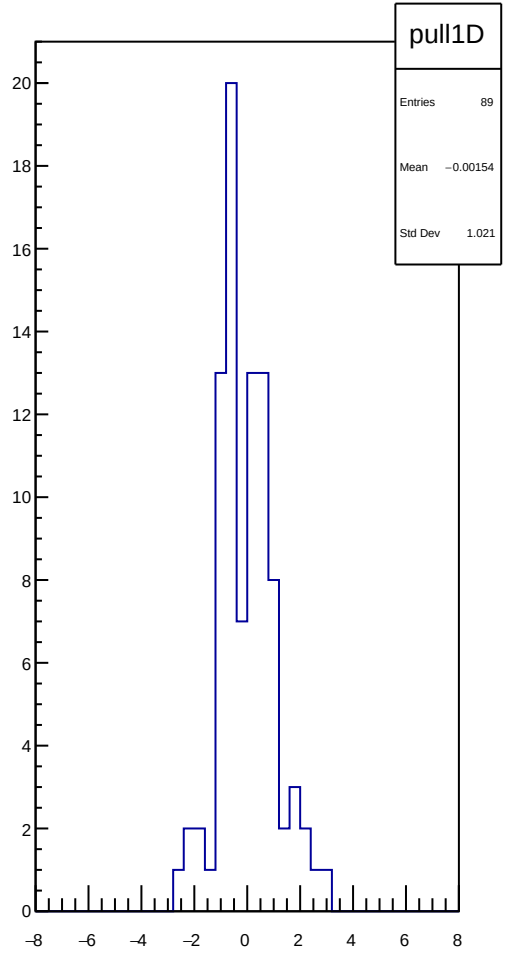

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 6286 / 88
p0 6401 ± 4.792
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

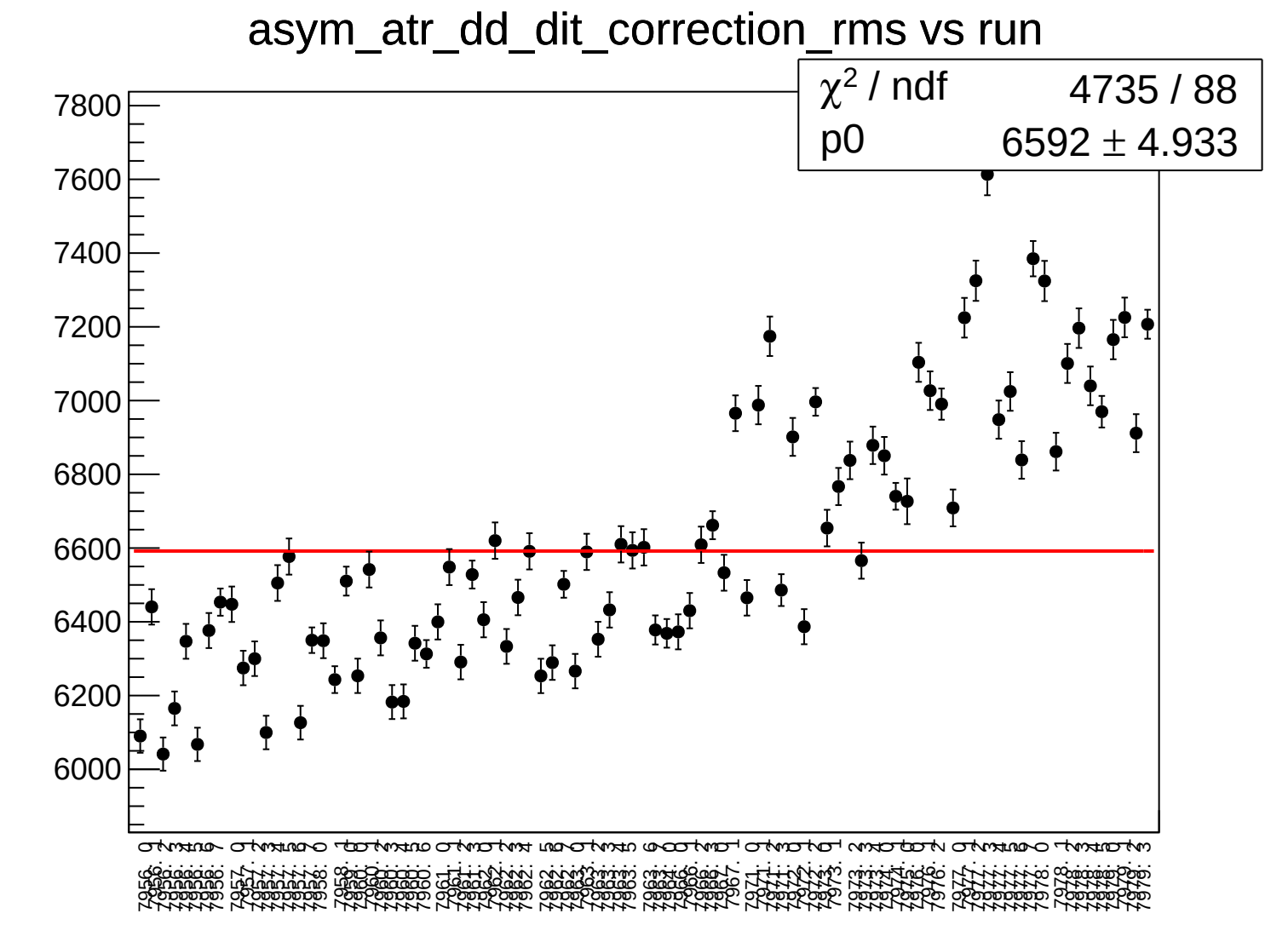

dit_asym_atr_dd_mean vs run
χ² / ndf 105.3 / 88
p0 1675 ± 2083
pull
Entries 89
Mean −226.7
Std Dev 0

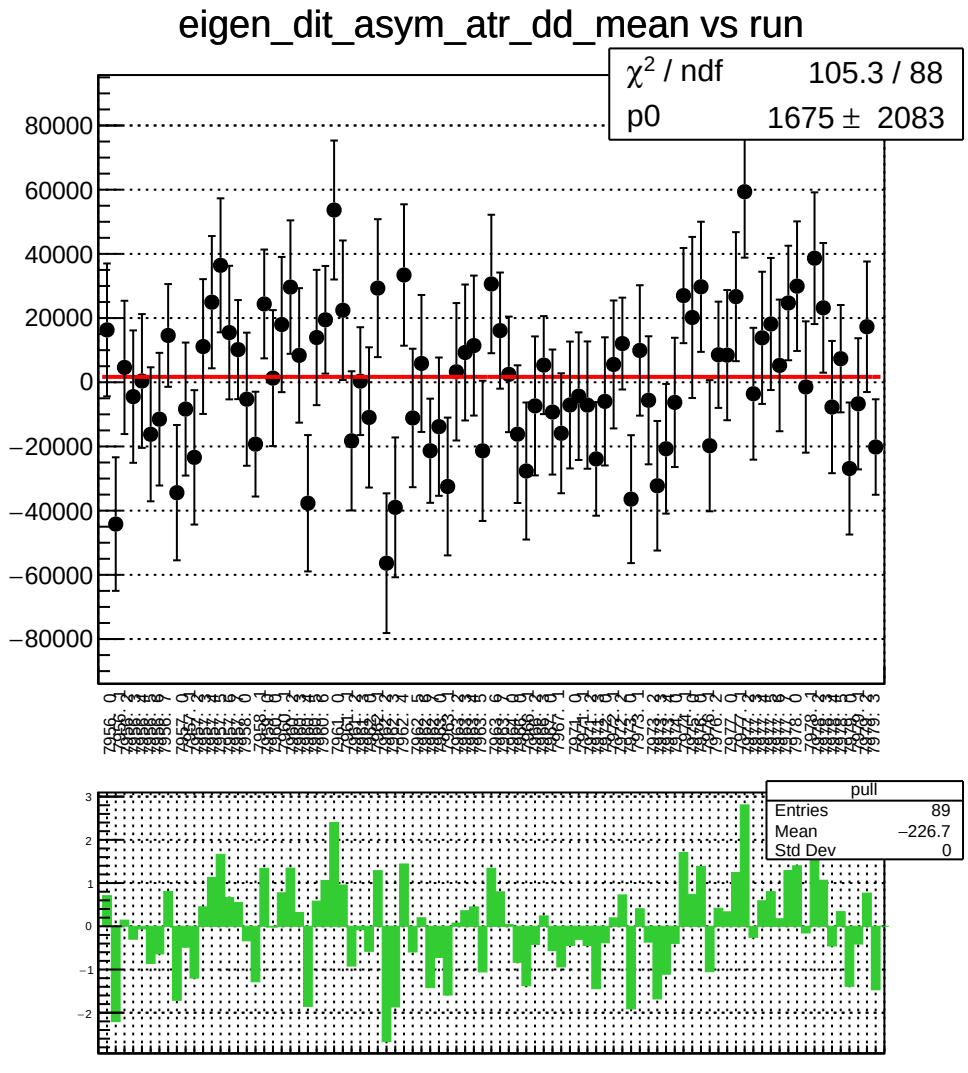

pull1D
Entries 89
Mean −0.01009
Std Dev 1.088

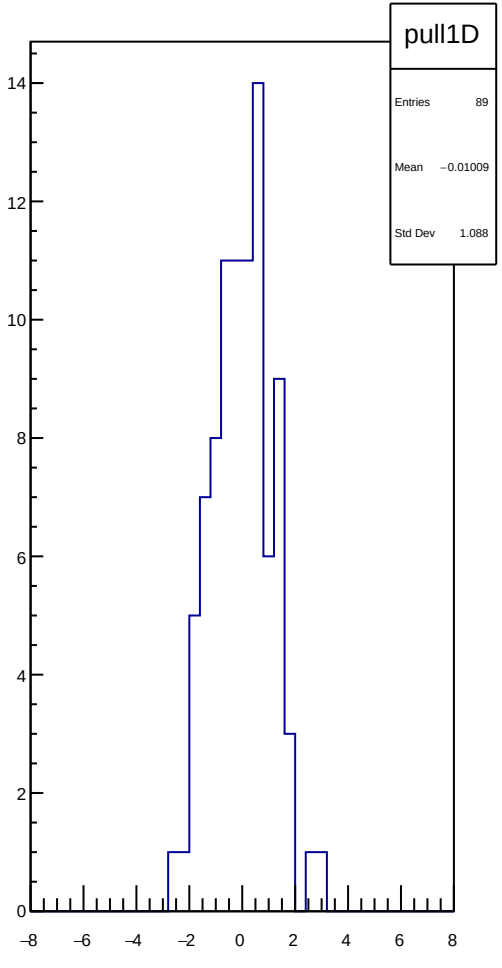

dit_asym_atr_dd_rms vs run
$\chi^2$ / ndf 1589 / 88
p0 1970 ± 1.473
2100
2050
2000
1950
1900
1850

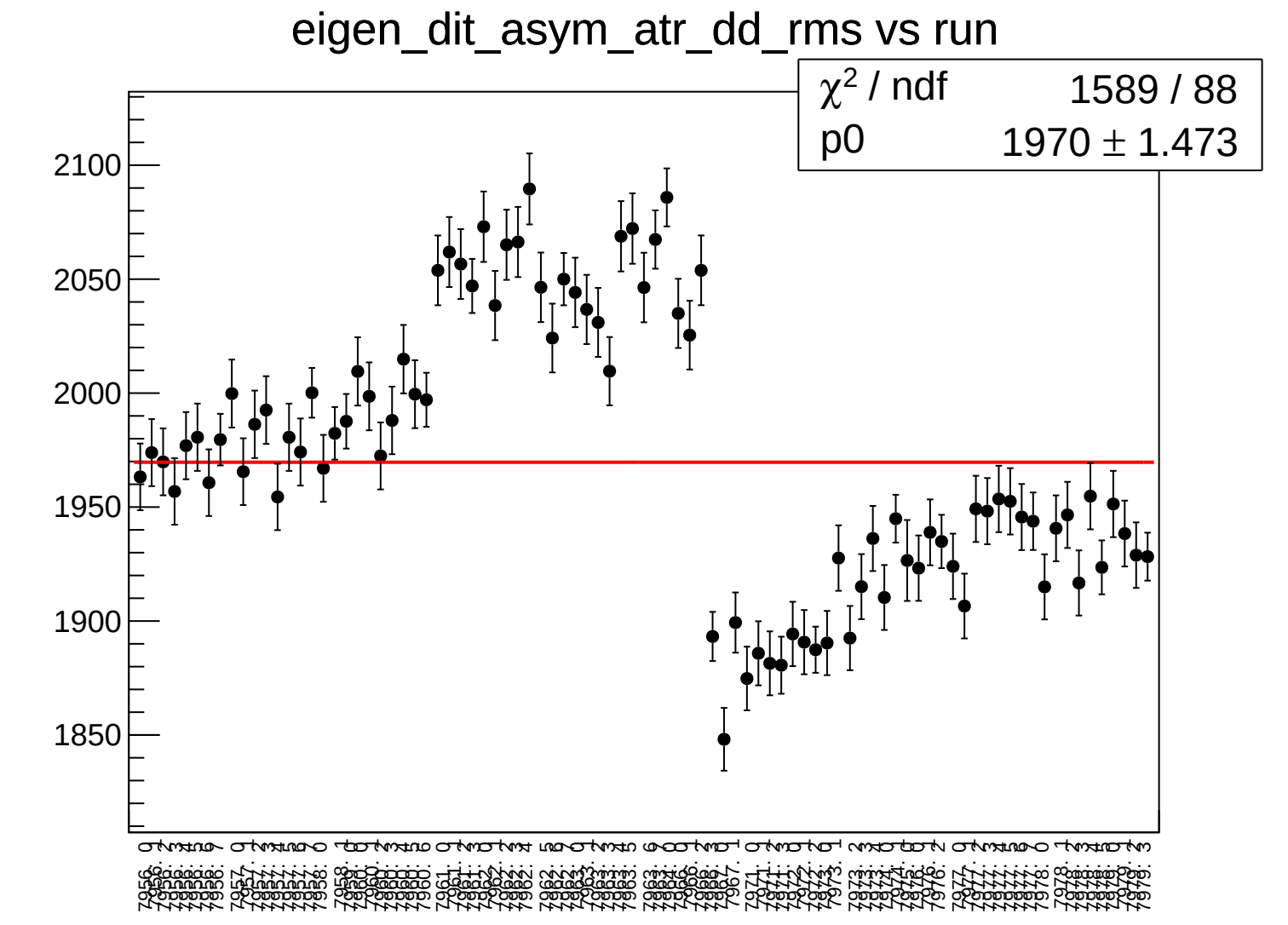

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 92.82 / 88
p0 −2094 ± 6976
300
200
100
0
−100
−200
pull
Entries 89
Mean −1788
Std Dev 0
3
2
1
0
−1
−2

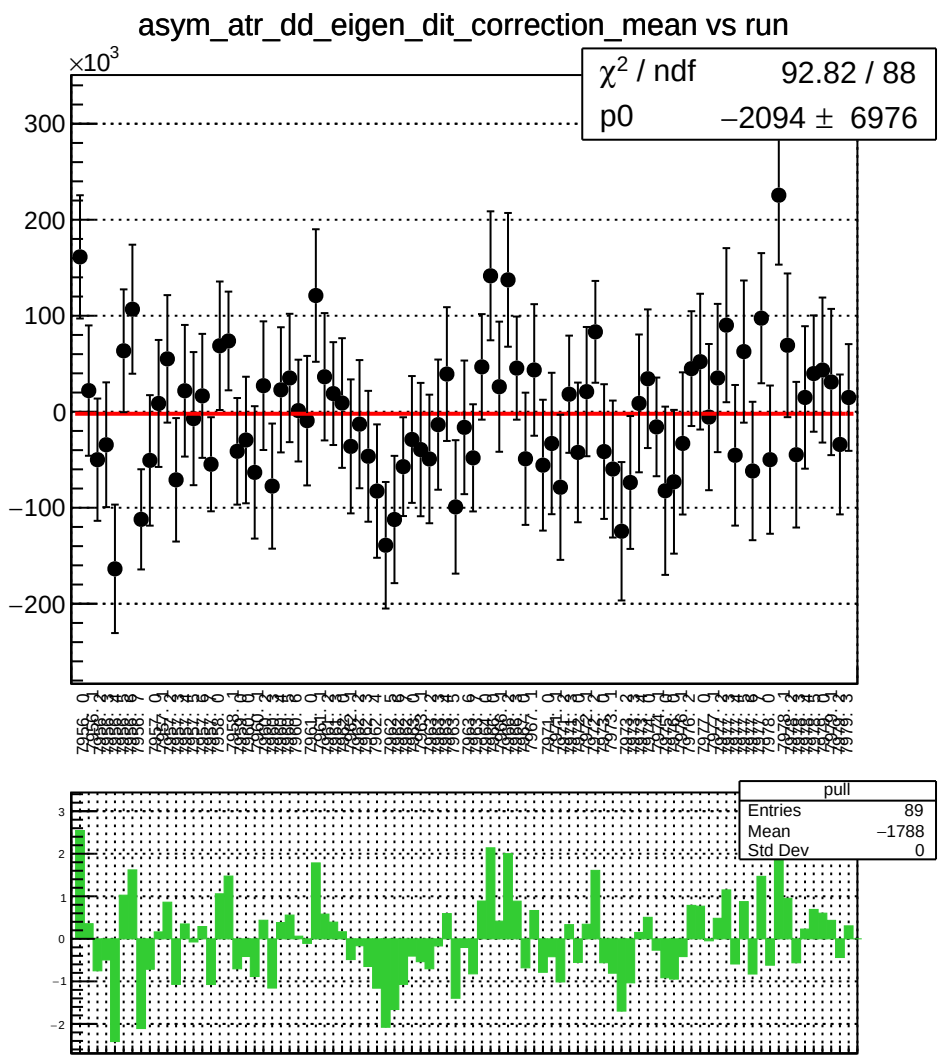

pull1D
Entries 89
Mean −0.00154
Std Dev 1.021
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

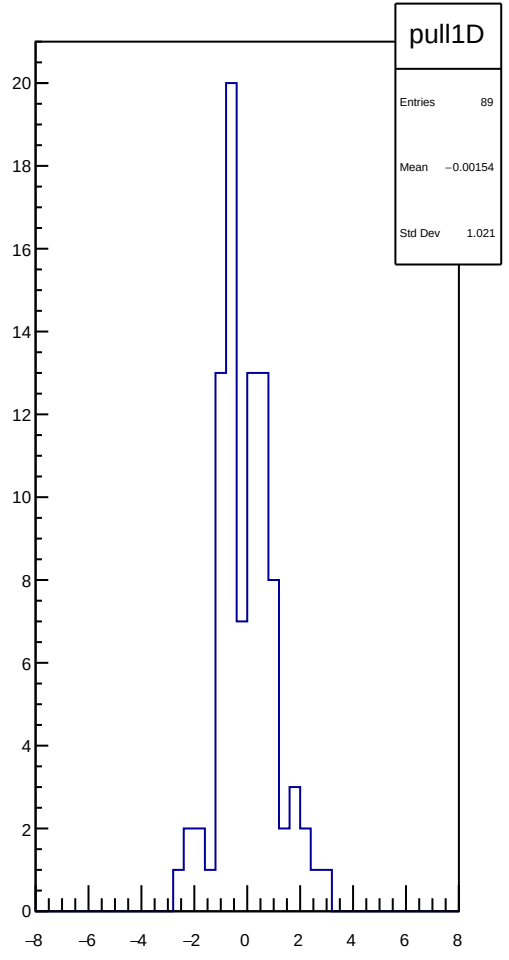

asym_atr_dd_dit_correction_rms vs run
$\chi^2$ / ndf 4735 / 88
p0 6592 ± 4.933
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

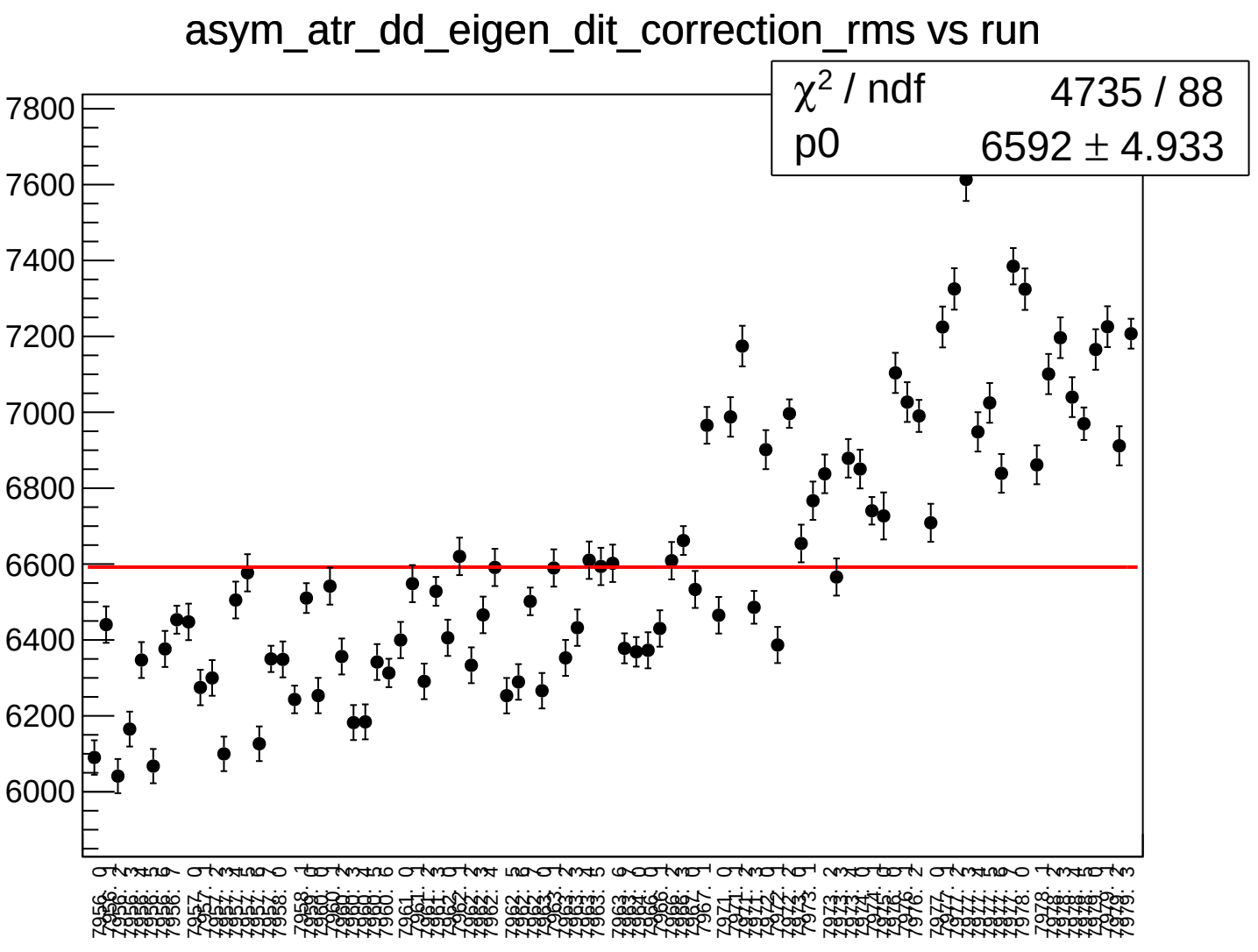

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 105.3 / 88
p0 1675 ± 2083
pull
Entries 89
Mean −226.7
Std Dev 0

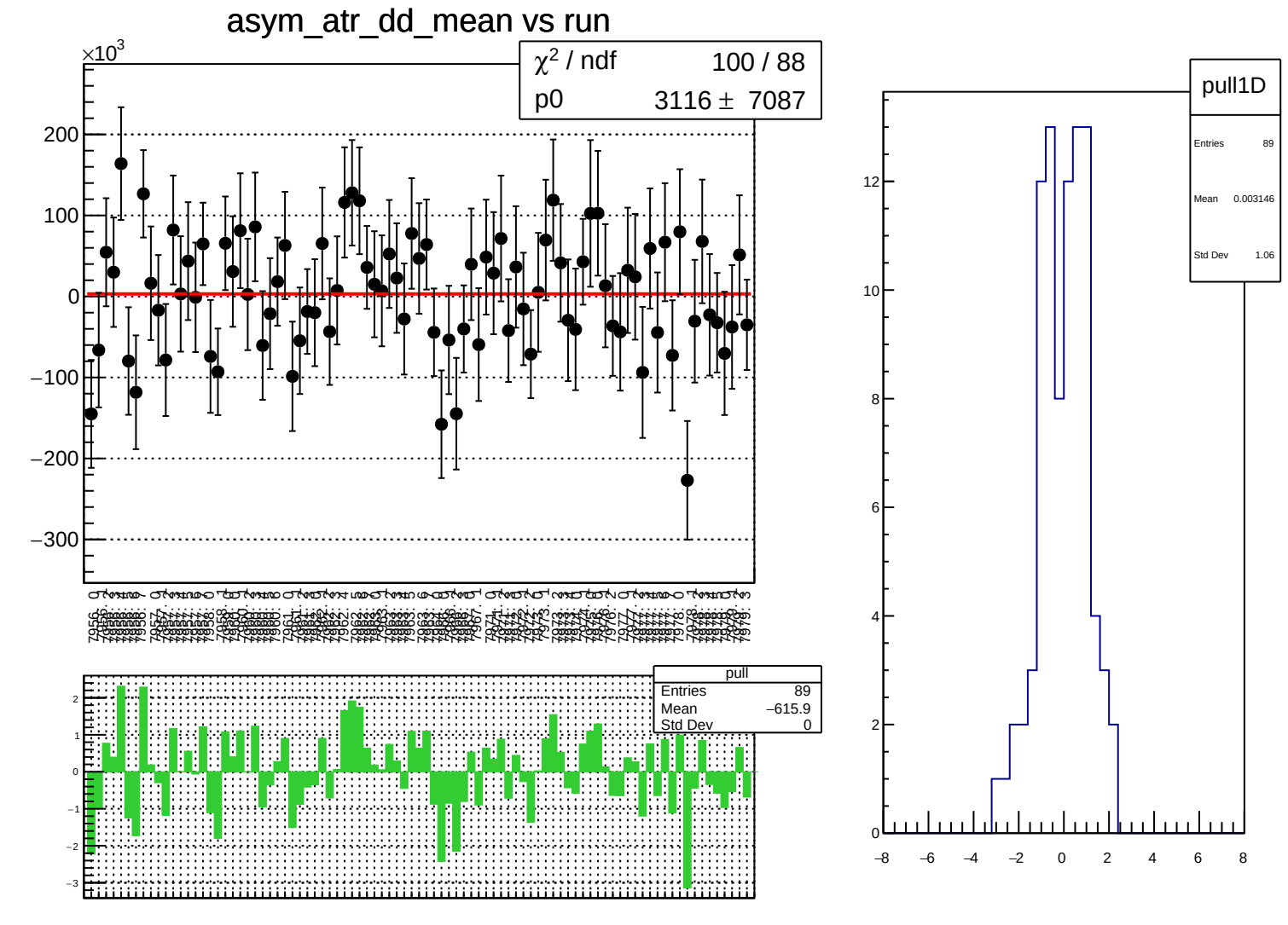

pull1D
Entries 89
Mean −0.01009
Std Dev 1.088

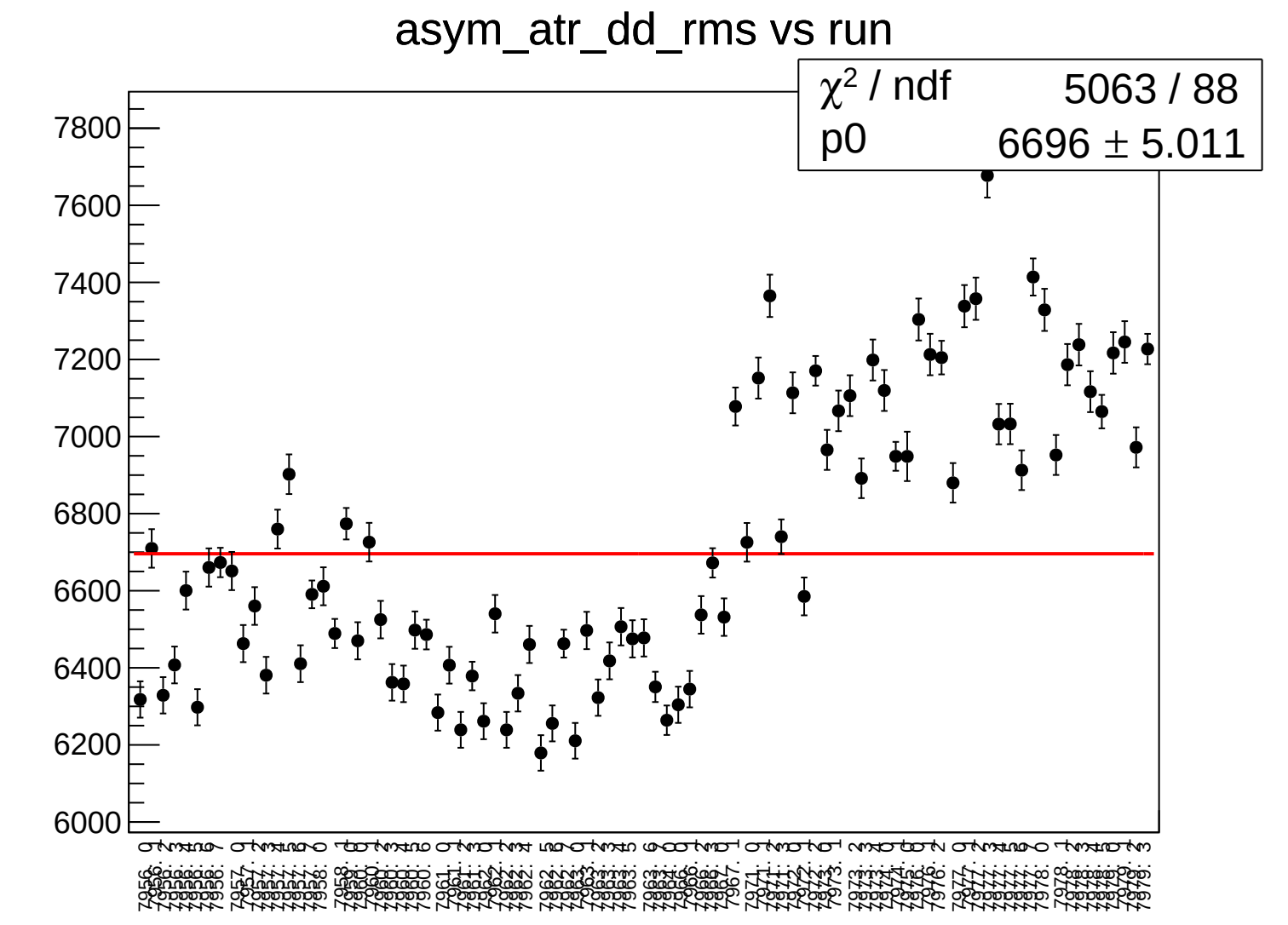

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 1589 / 88
p0 1970 ± 1.473
2100
2050
2000
1950
1900
1850

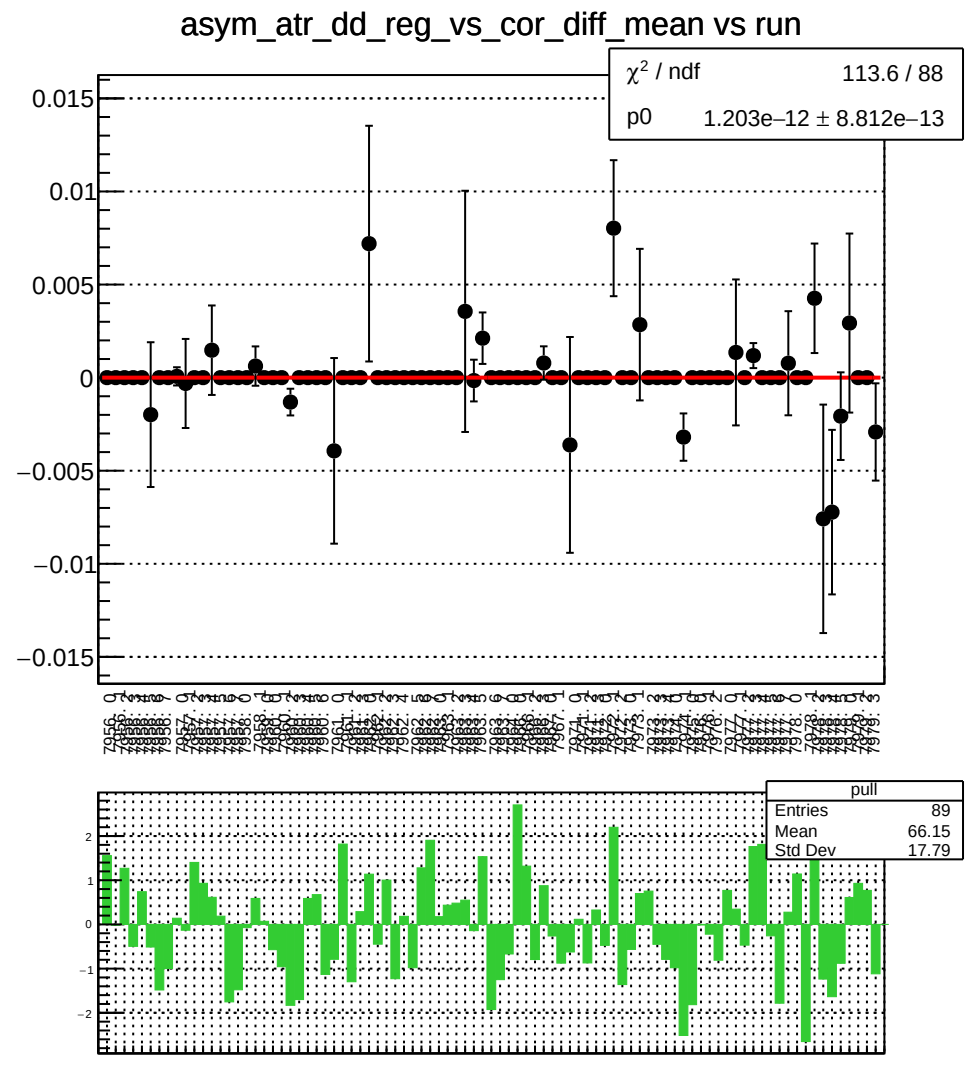

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.82 / 88
p0 −2094 ± 6976
300
200
100
0
−100
−200
pull
Entries 89
Mean −1788
Std Dev 0
3
2
1
0
−1
−2

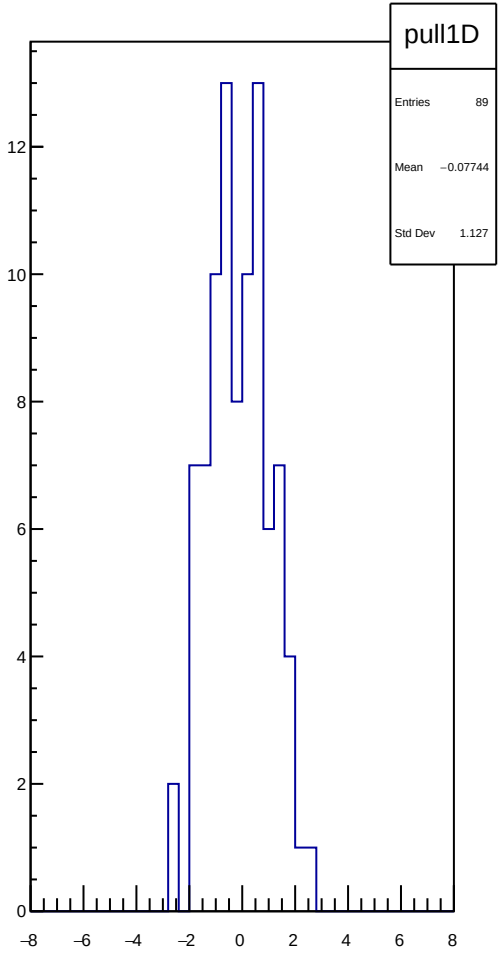

pull1D
Entries 89
Mean −0.00154
Std Dev 1.021
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

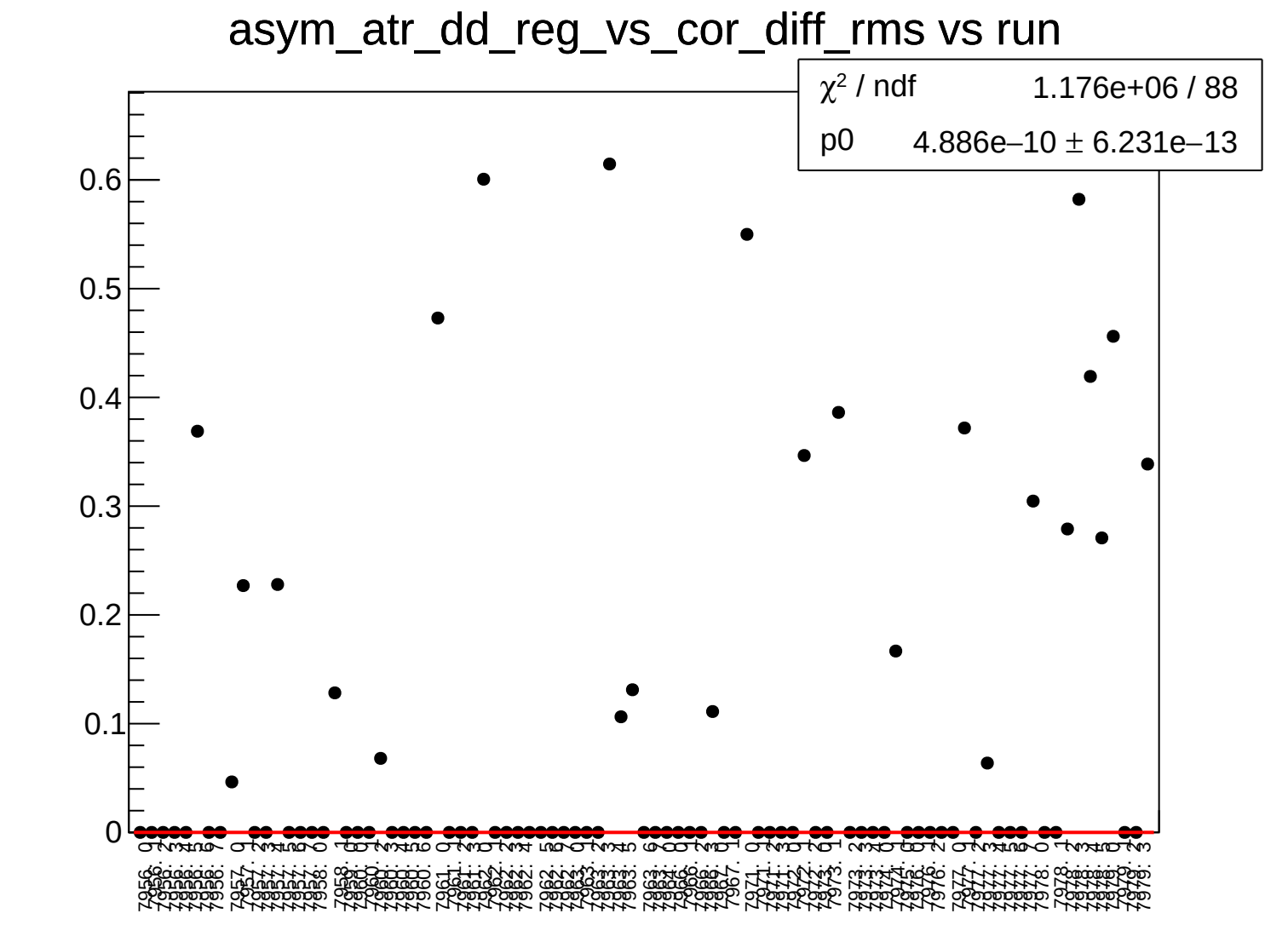

asym_atr_dd_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 4735 / 88
p0 6592 ± 4.933
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

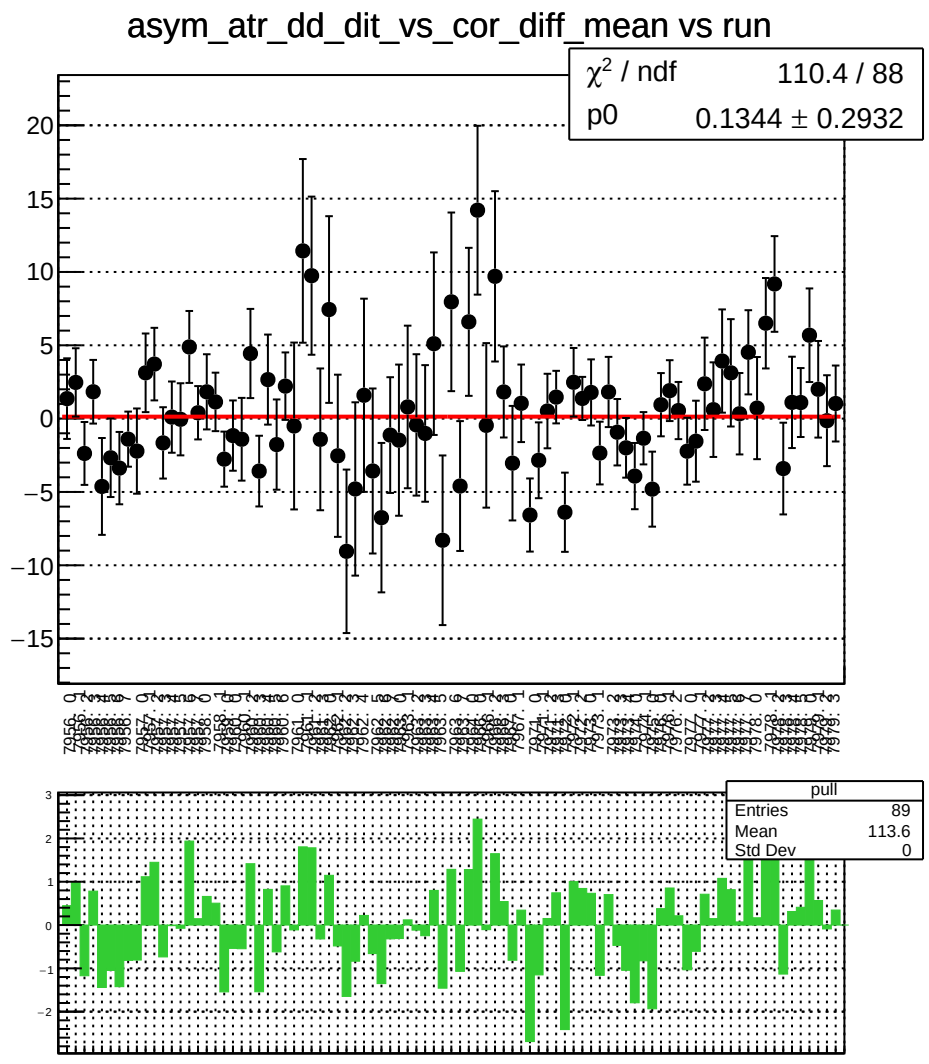

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 100 / 88
p0 3116 ± 7087
200
100
0
−100
−200
−300
pull
Entries 89
Mean −615.9
Std Dev 0
pull1D
Entries 89
Mean 0.003146
Std Dev 1.06

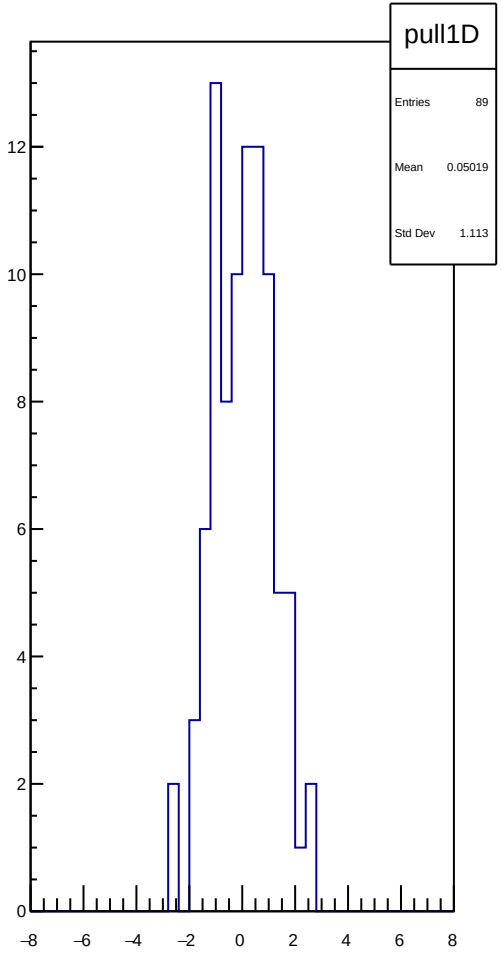

asym_atr_dd_rms vs run
χ² / ndf 5063 / 88
p0 6696 ± 5.011
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

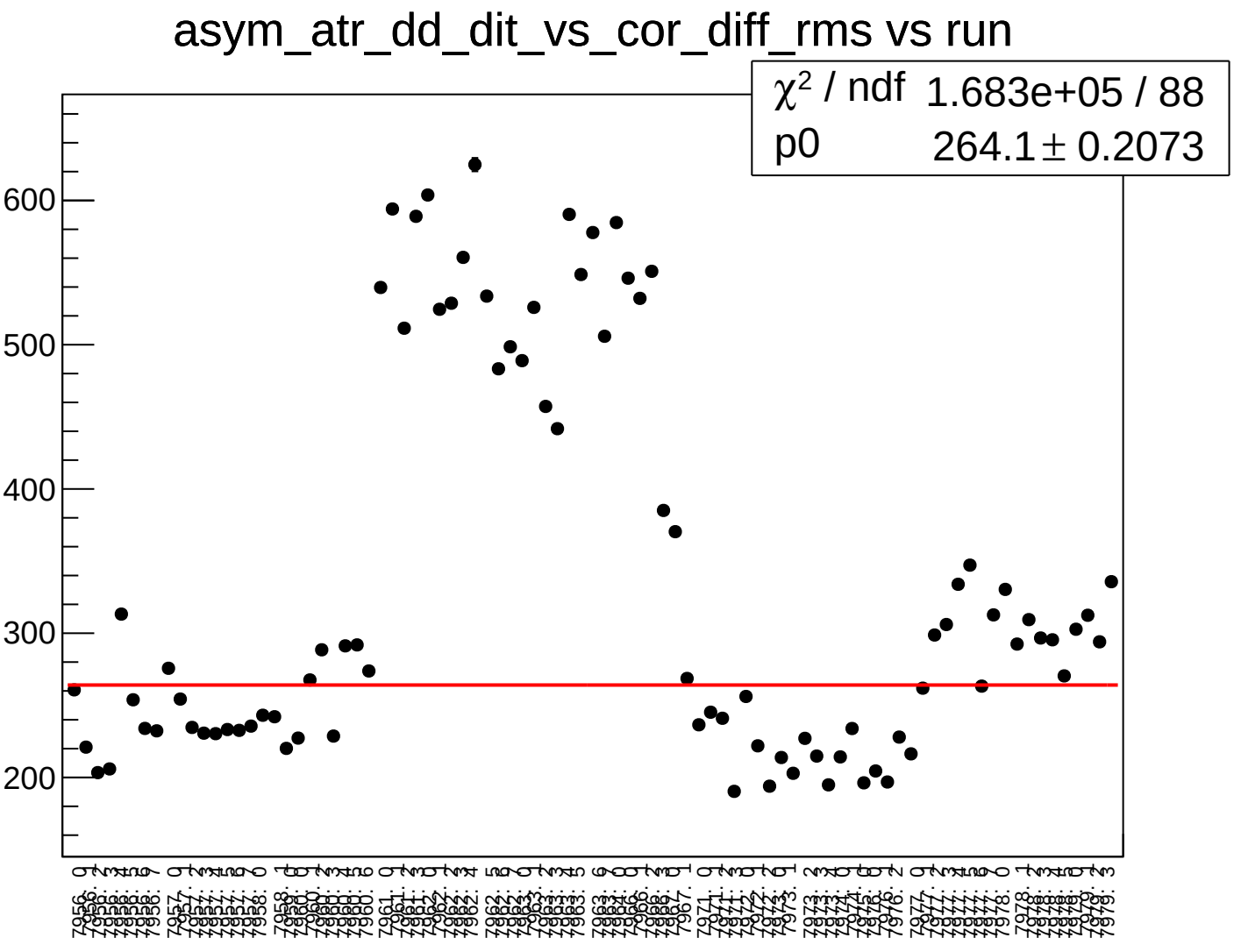

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 113.6 / 88
p0 1.203e−12 ± 8.812e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 66.15
Std Dev 17.79
2
1
0
−1
−2

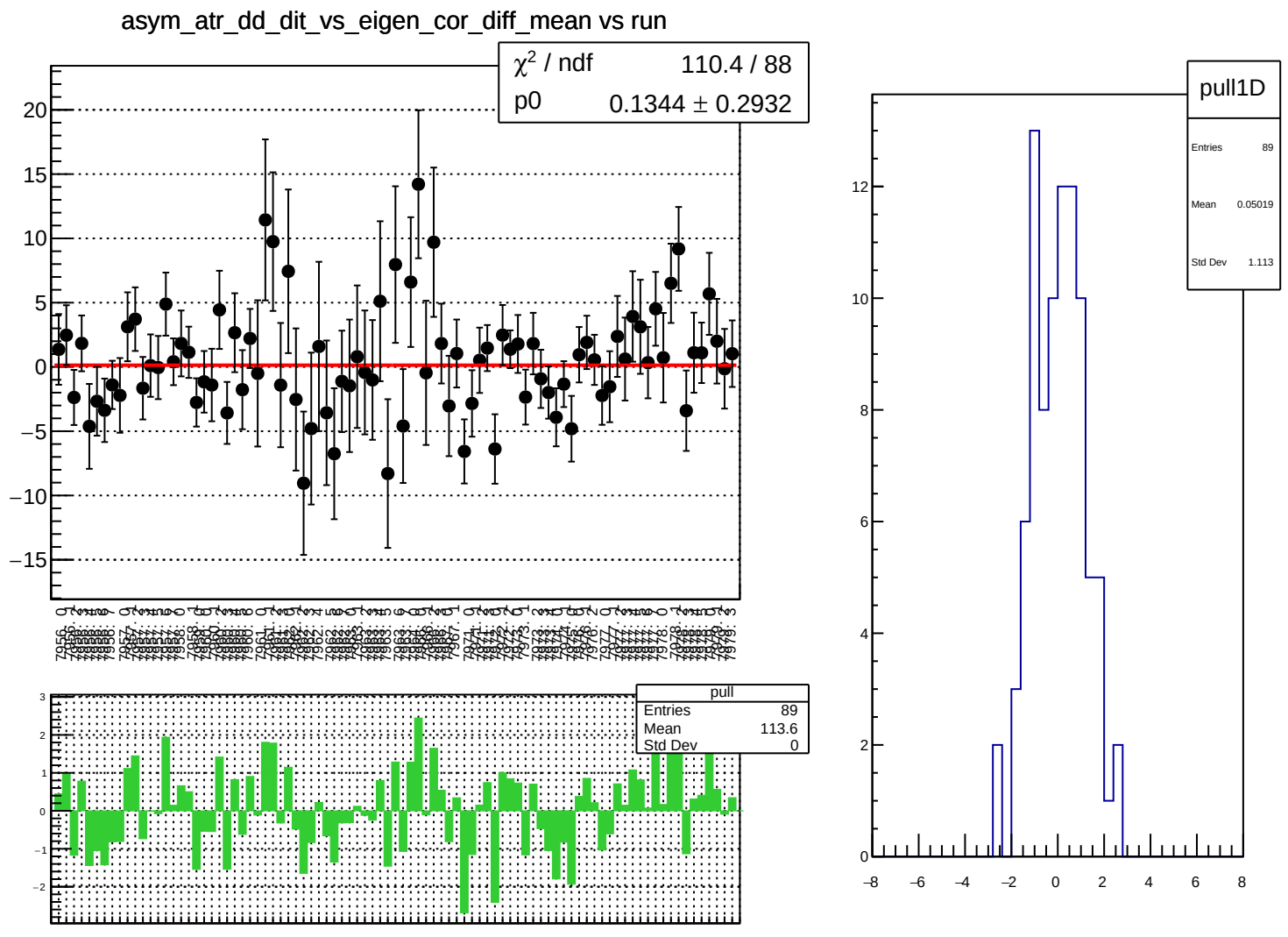

pull1D
Entries 89
Mean −0.07744
Std Dev 1.127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

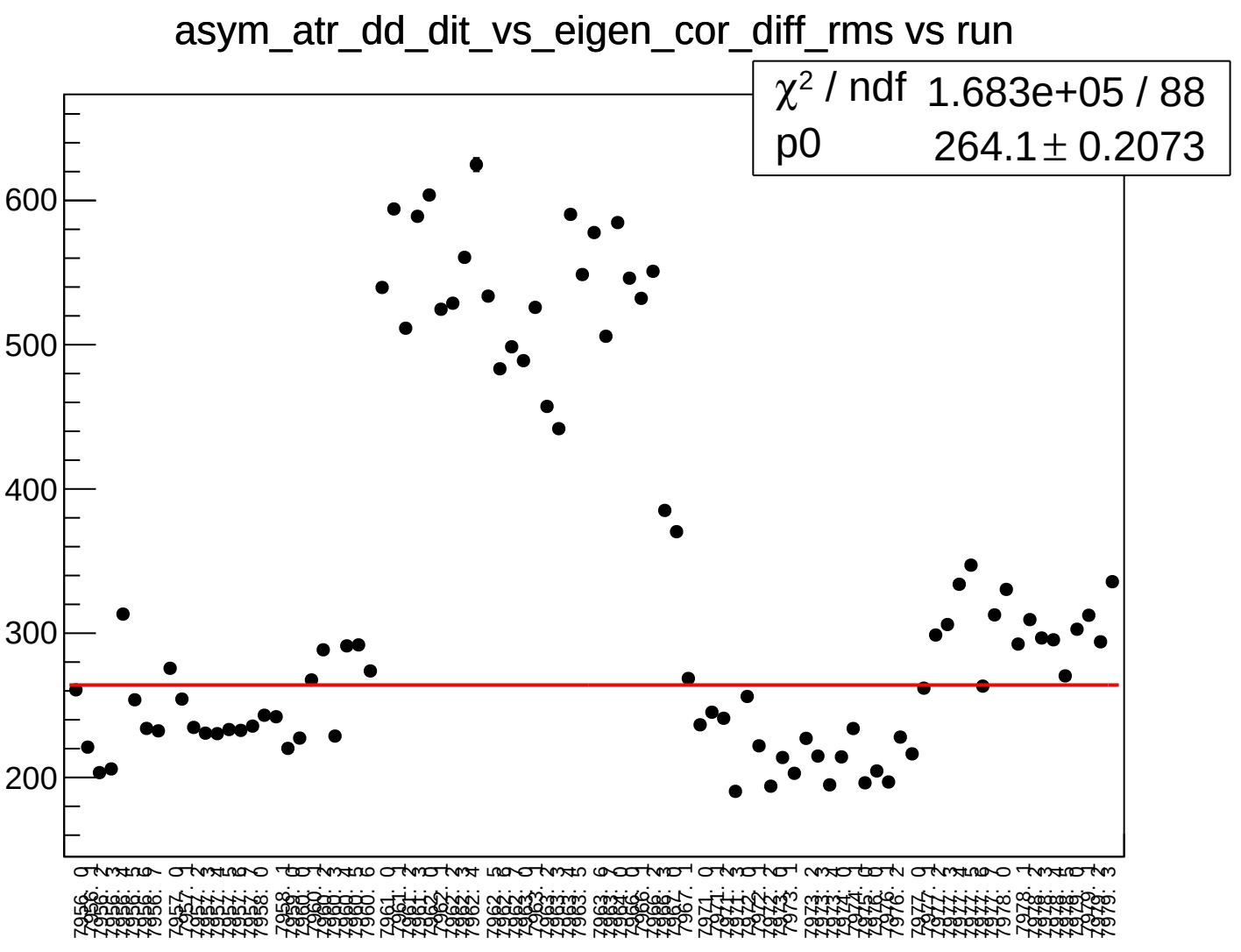

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.176e+06 / 88
p0 4.886e−10 ± 6.231e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

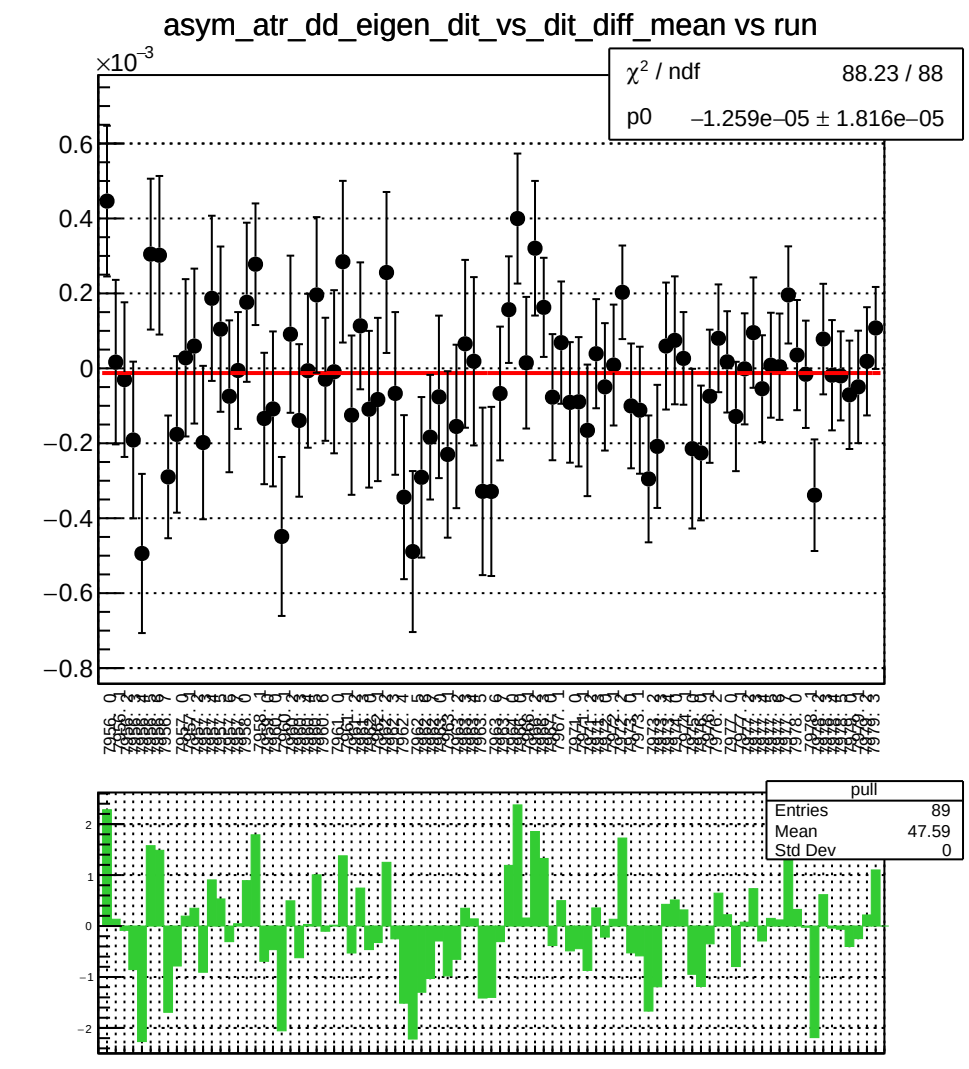

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 88
p0 0.1344 ± 0.2932
pull
Entries 89
Mean 113.6
Std Dev 0

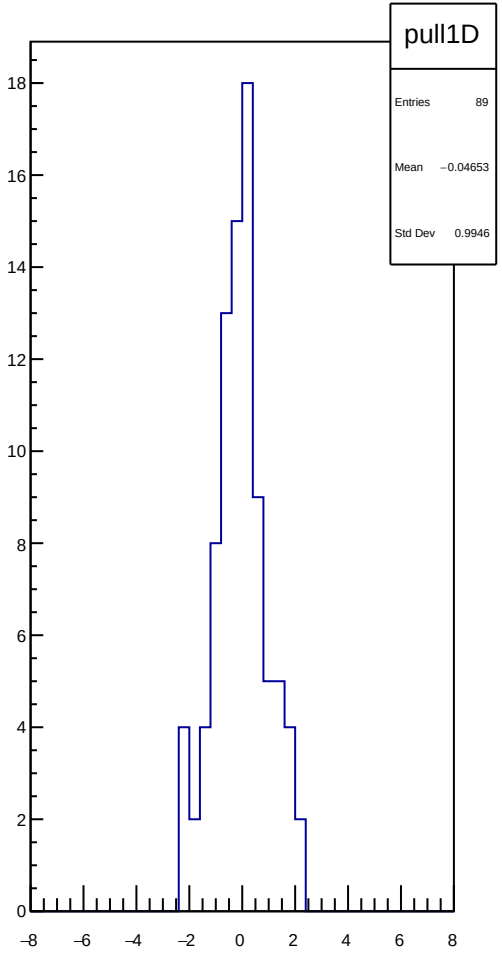

pull1D
Entries 89
Mean 0.05019
Std Dev 1.113

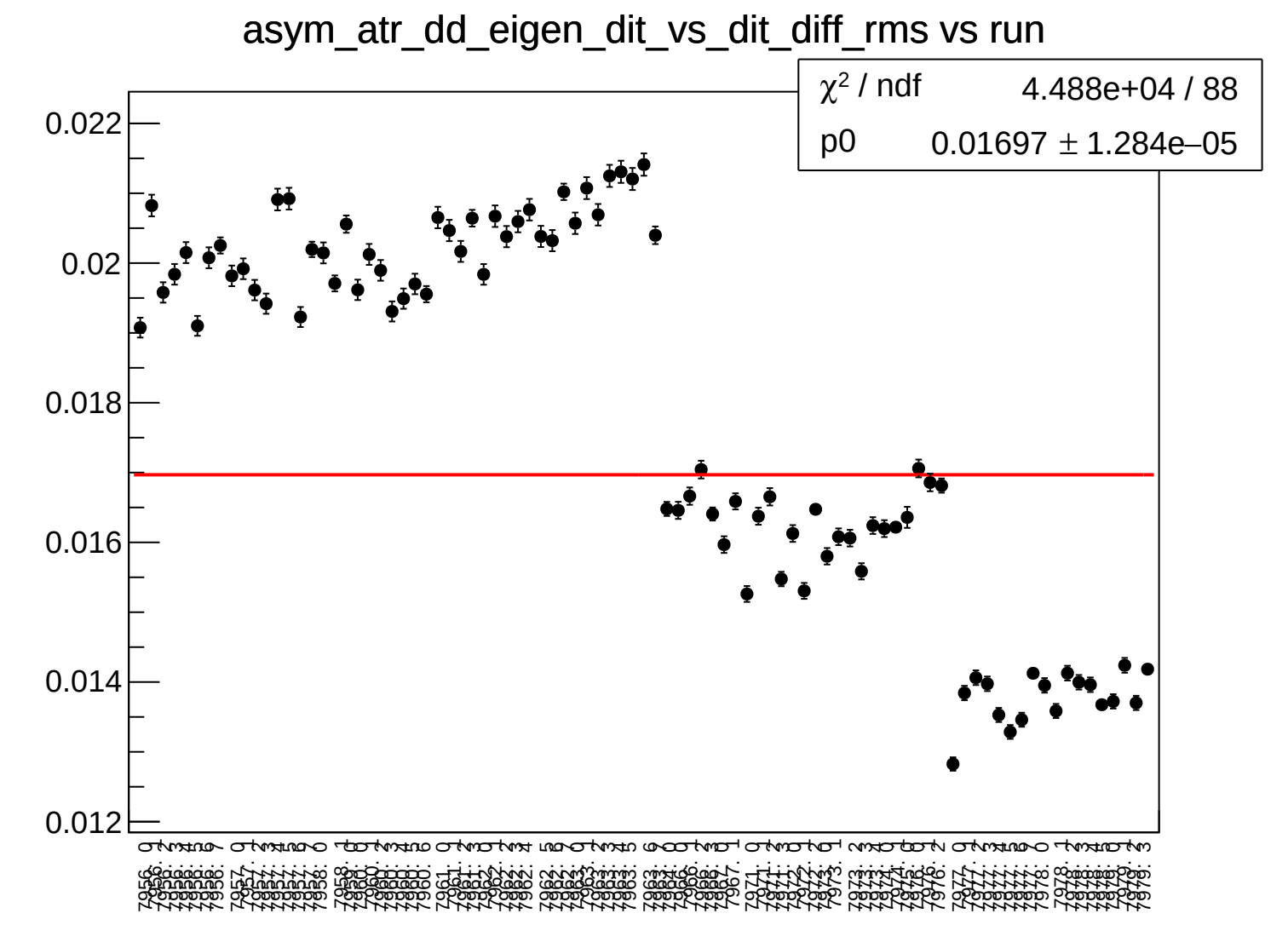

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 88
p0 264.1 ± 0.2073
600
500
400
300
200

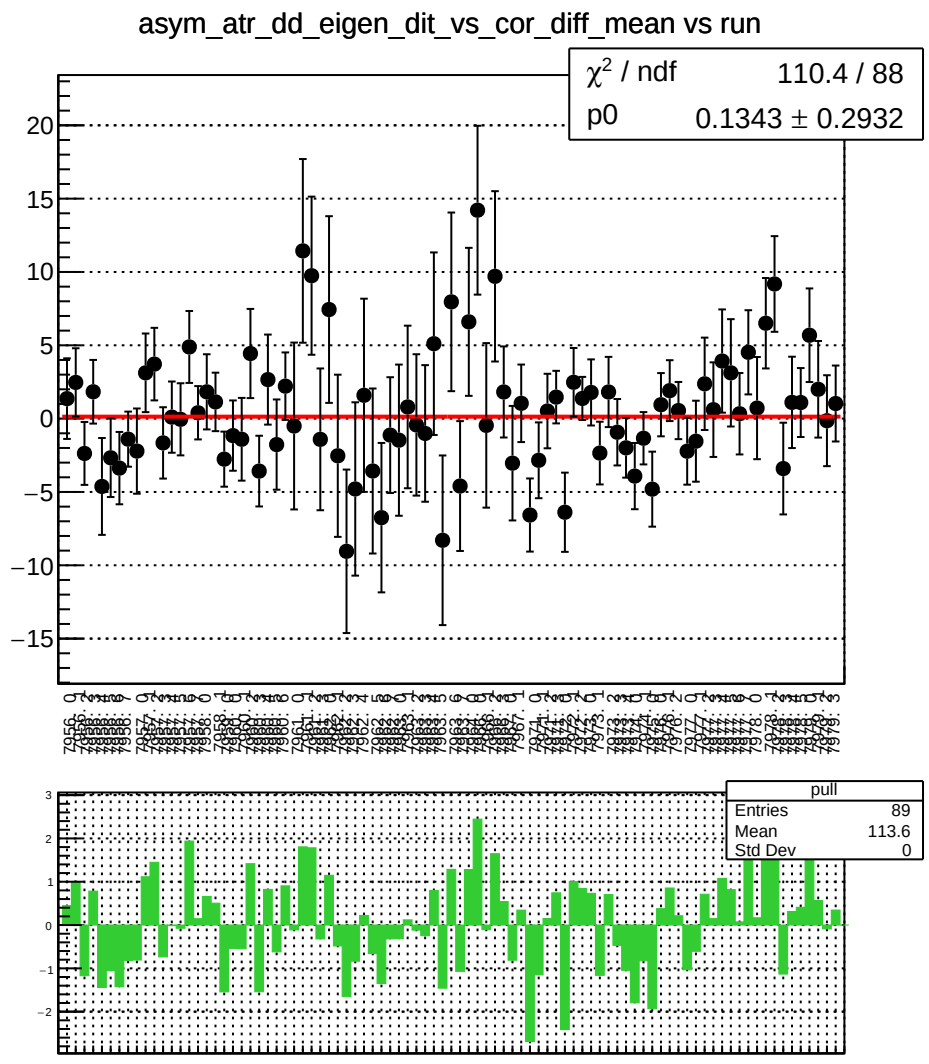

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.4 / 88
p0 0.1344 ± 0.2932
pull
Entries 89
Mean 113.6
Std Dev 0
pull1D
Entries 89
Mean 0.05019
Std Dev 1.113

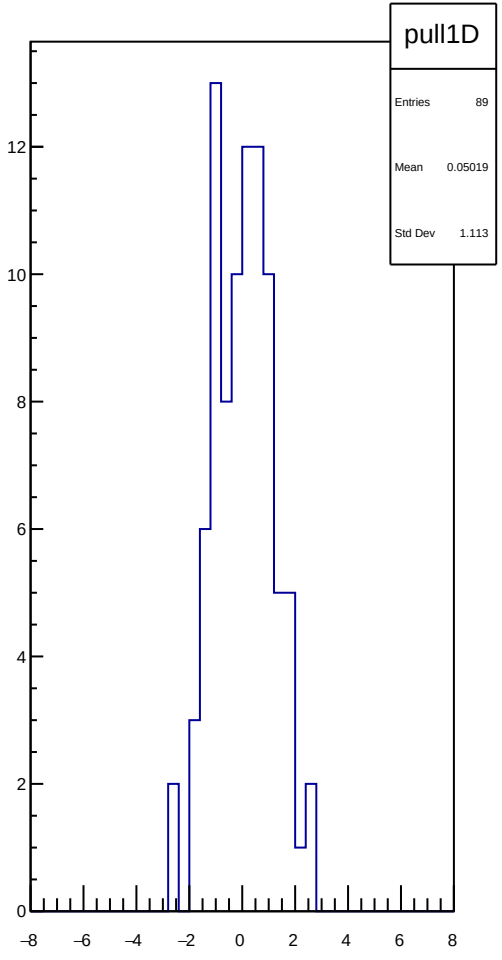

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 88
p0 264.1 ± 0.2073
600
500
400
300
200

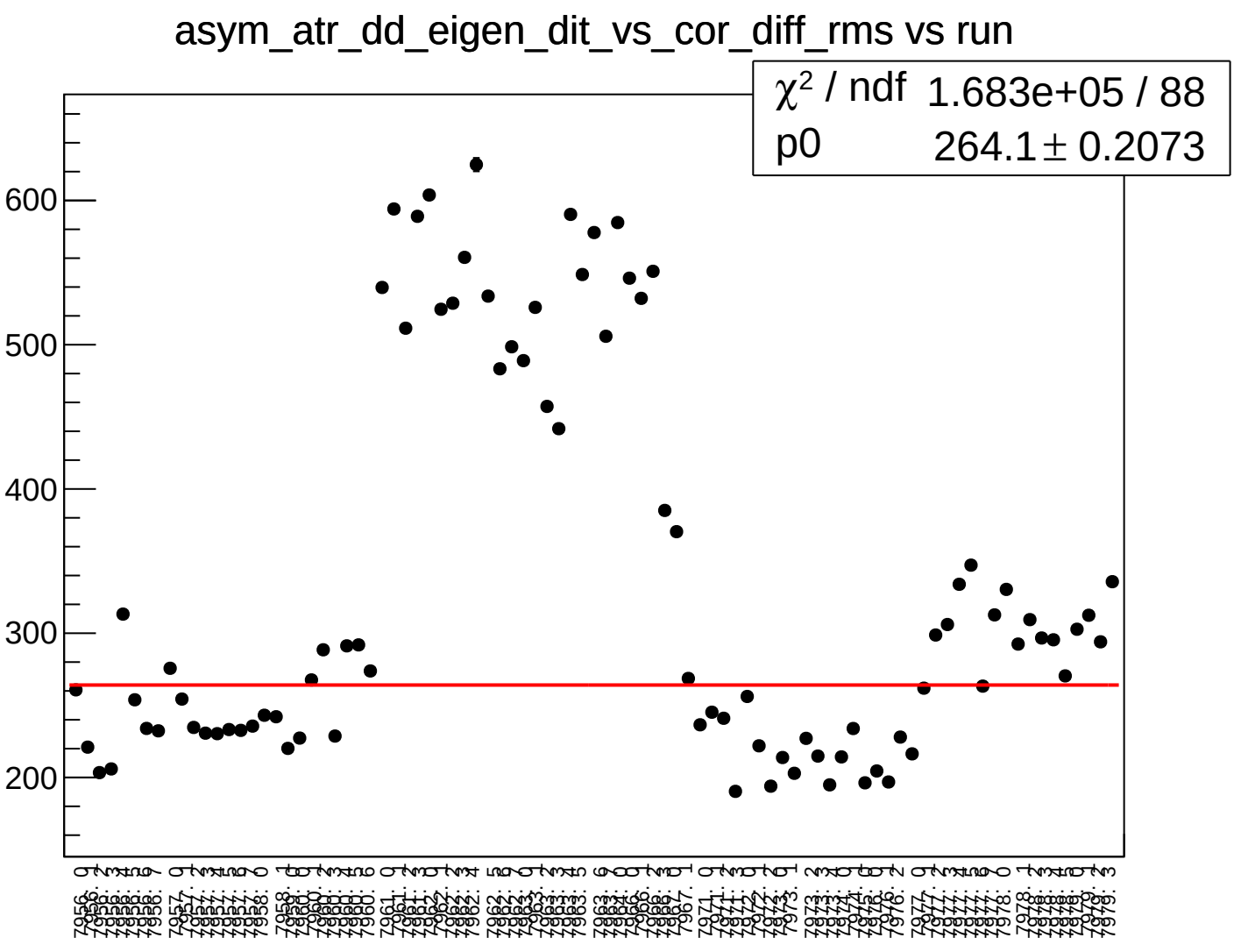

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.23 / 88
p0 −1.259e−05 ± 1.816e−05
pull
Entries 89
Mean 47.59
Std Dev 0

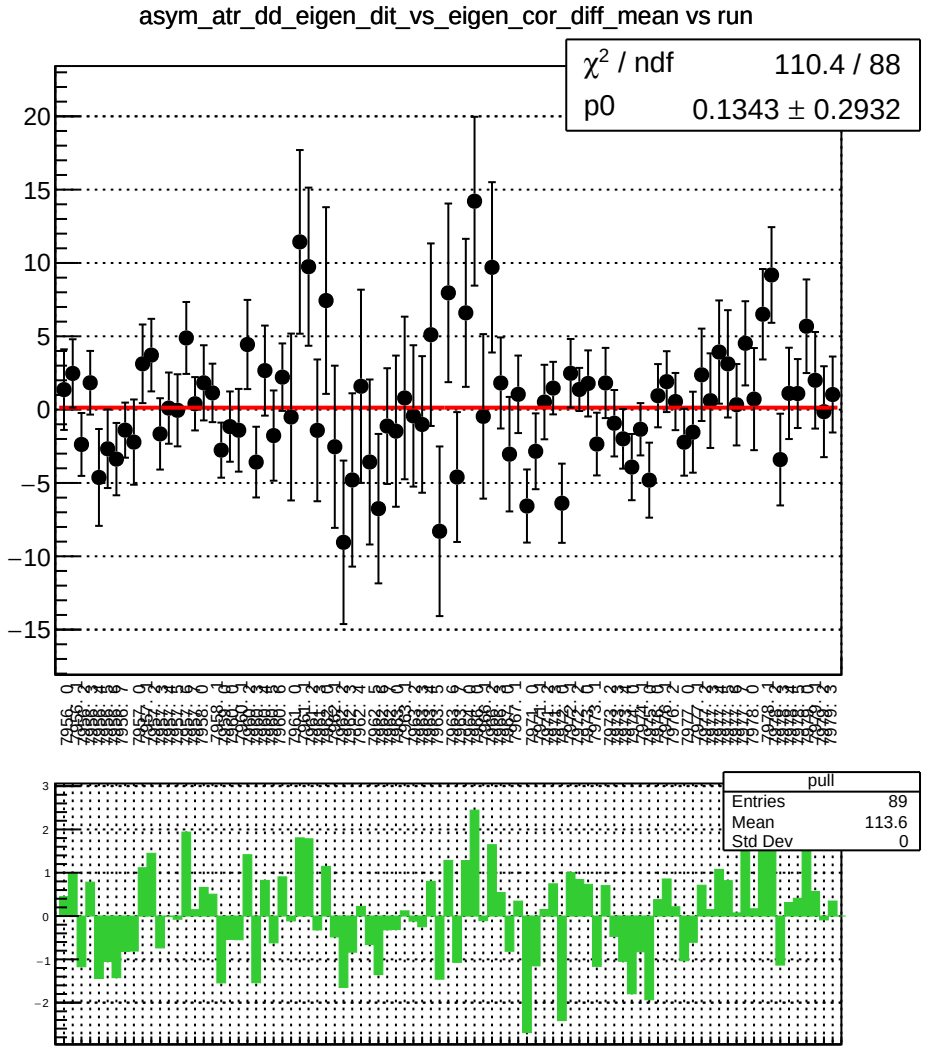

pull1D
Entries 89
Mean −0.04653
Std Dev 0.9946

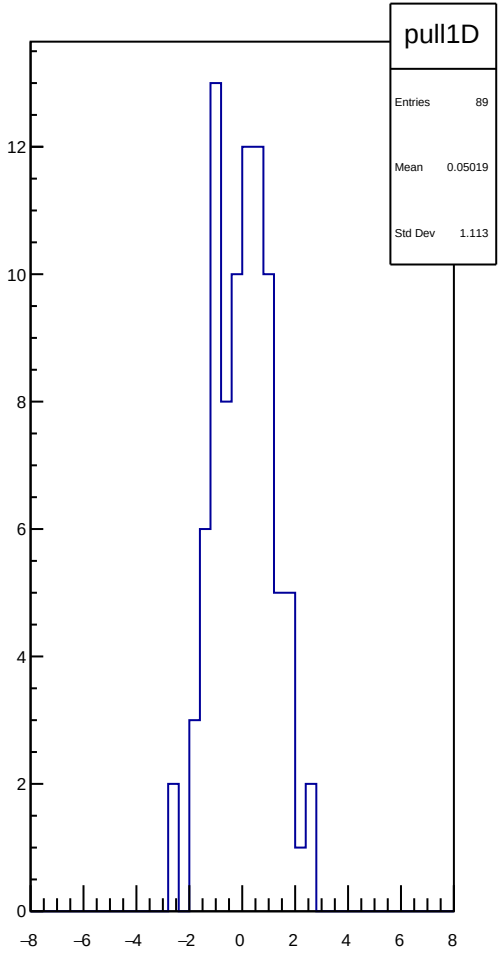

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.488e+04 / 88
p0 0.01697 ± 1.284e−05
0.022
0.02
0.018
0.016
0.014
0.012

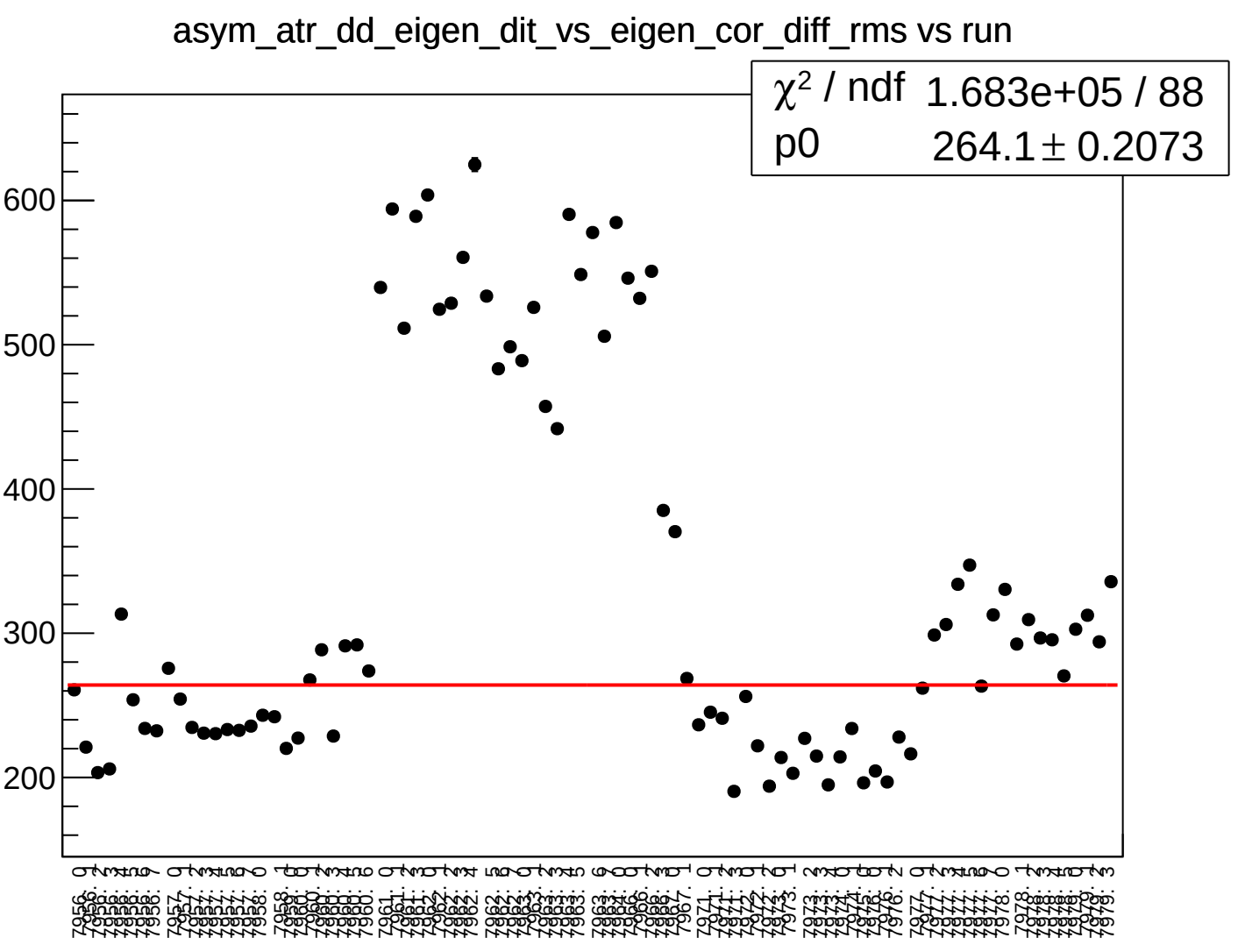

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 88
p0 0.1343 ± 0.2932
pull
Entries 89
Mean 113.6
Std Dev 0

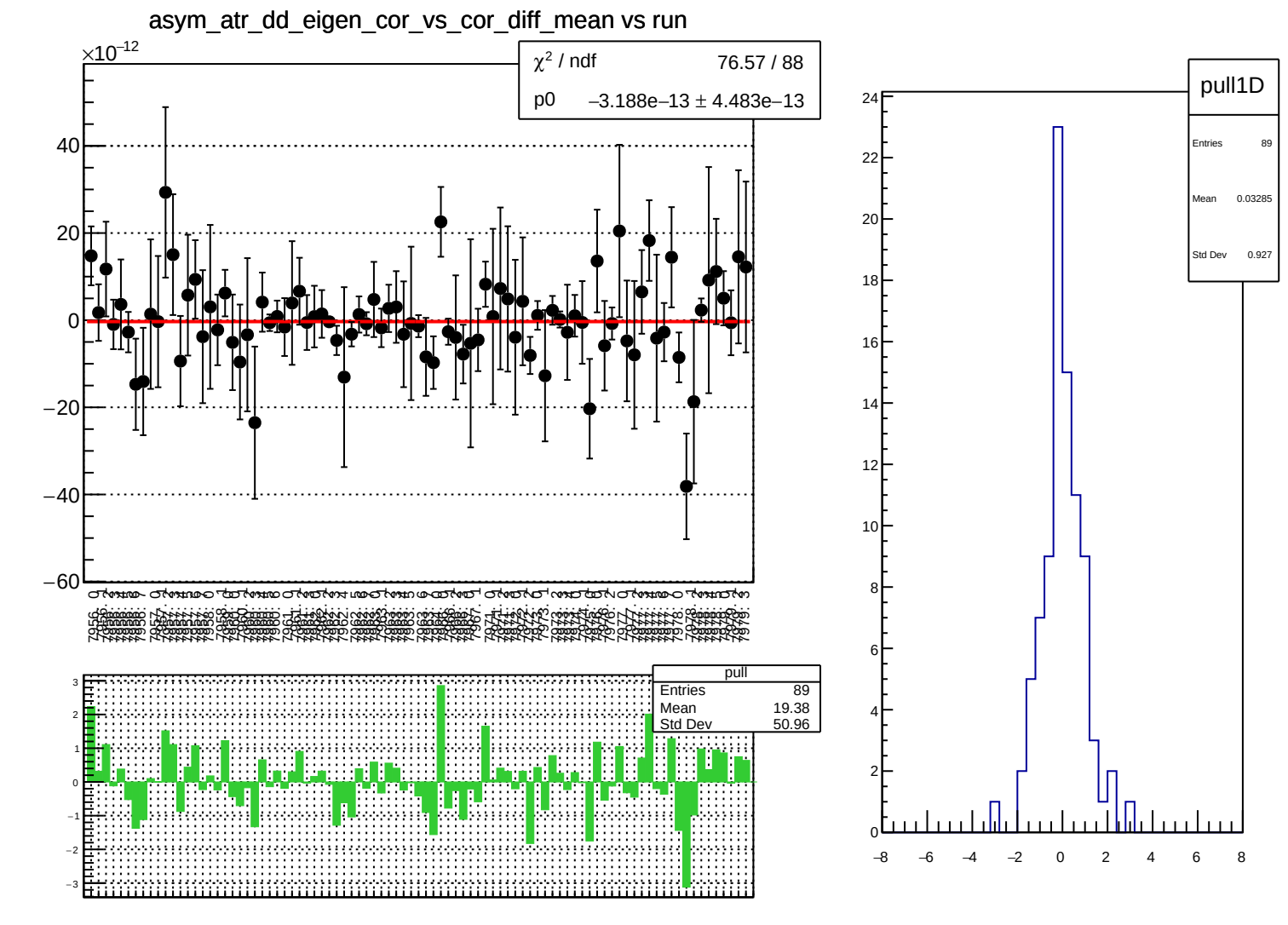

pull1D
Entries 89
Mean 0.05019
Std Dev 1.113

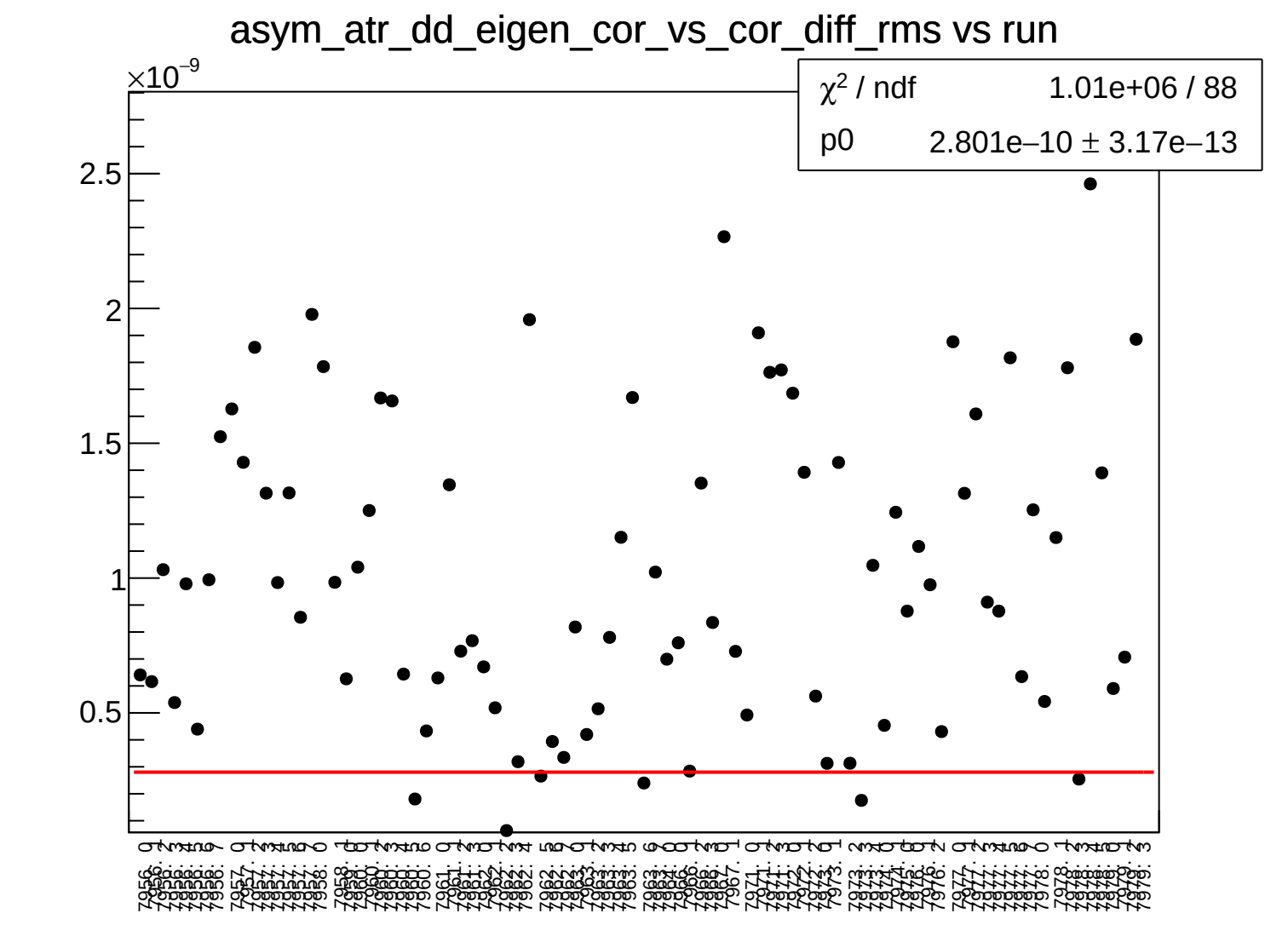

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 88
p0 264.1 ± 0.2073
600
500
400
300
200

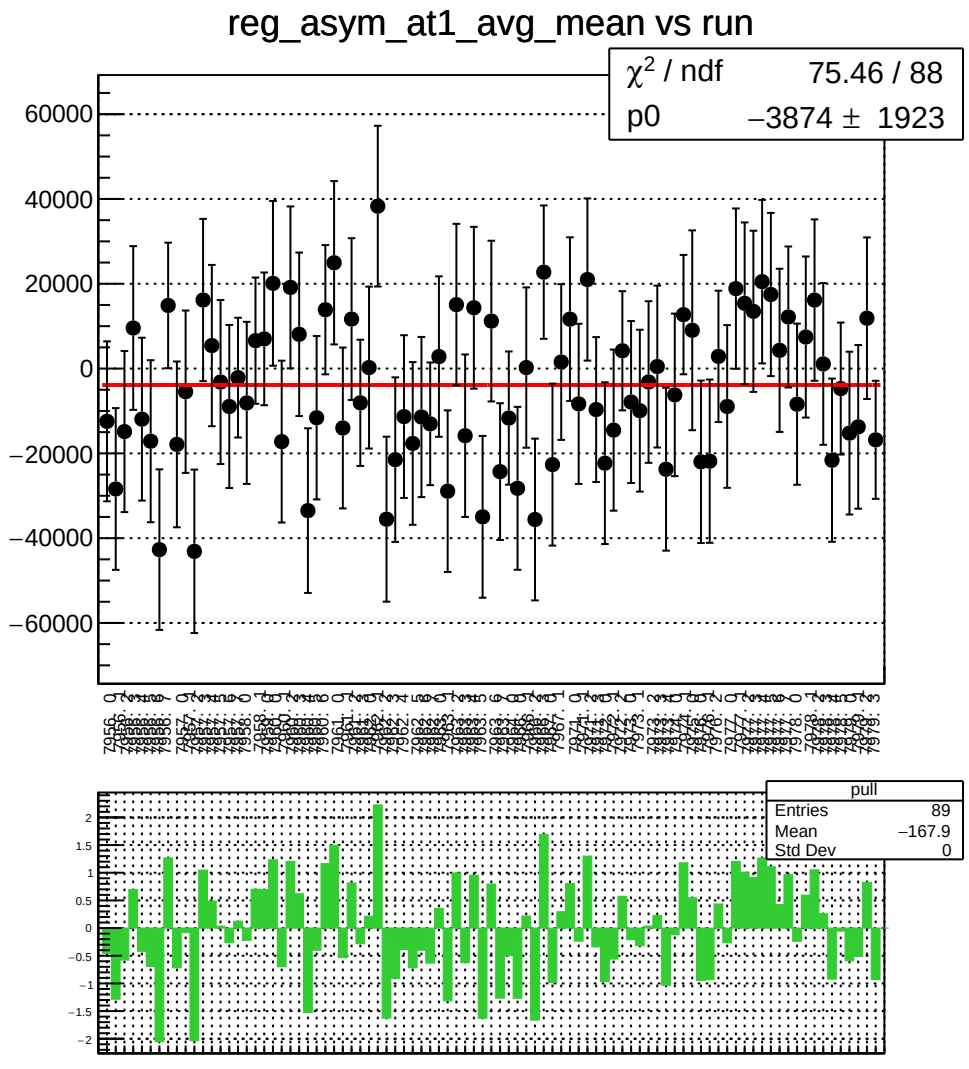

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
$\chi^2$ / ndf 110.4 / 88
p0 0.1343 ± 0.2932
pull
Entries 89
Mean 113.6
Std Dev 0

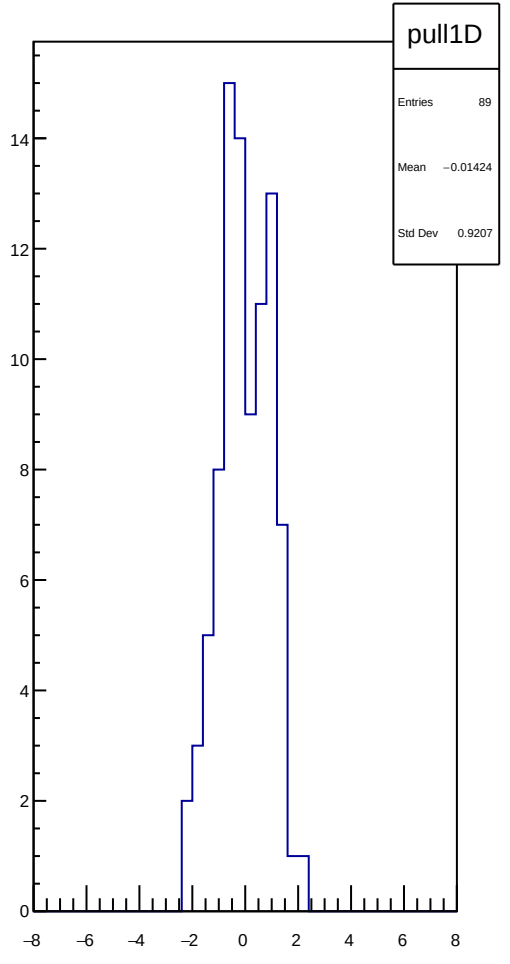

pull1D
Entries 89
Mean 0.05019
Std Dev 1.113

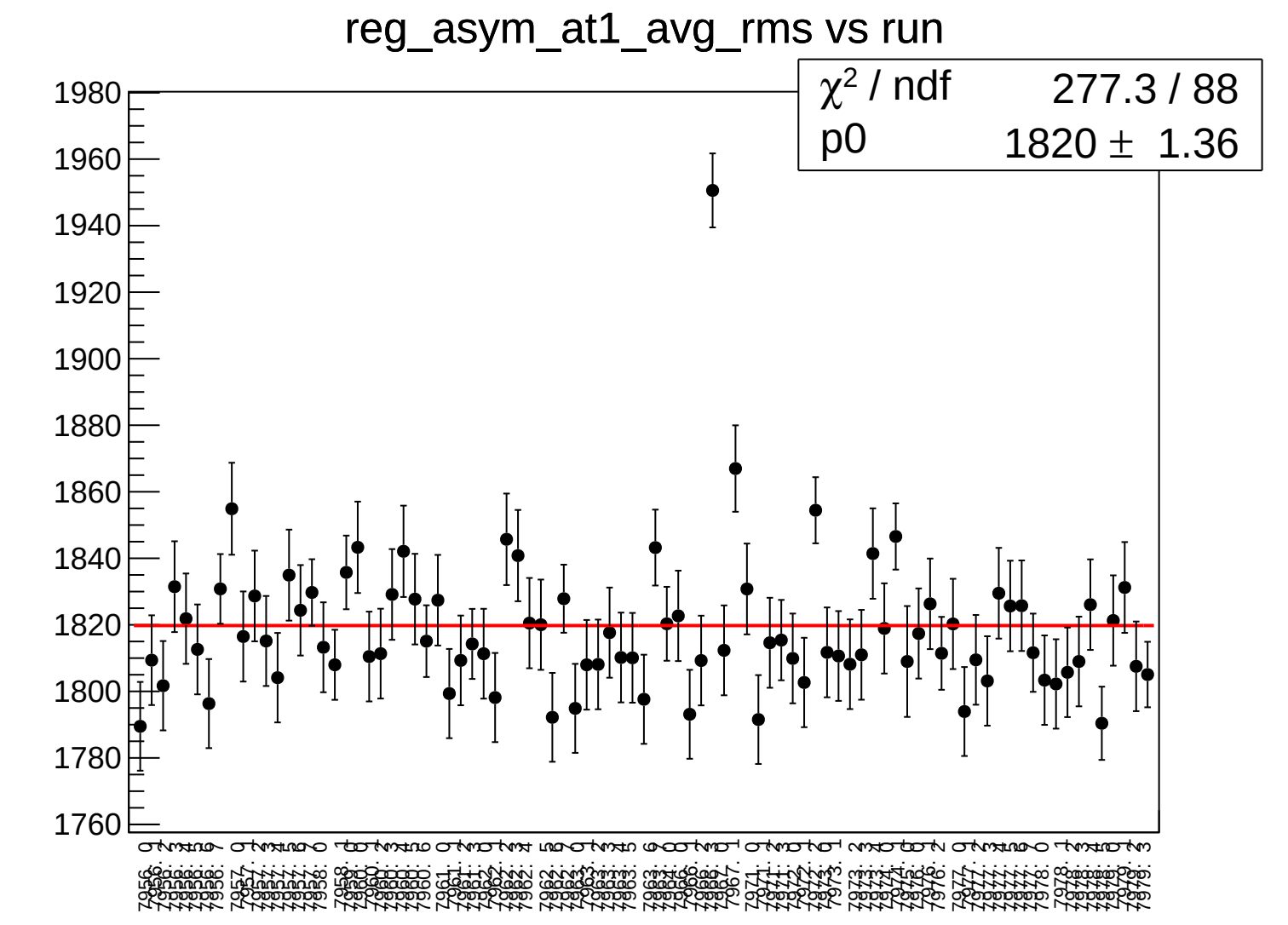

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 88
p0 264.1 ± 0.2073
600
500
400
300
200

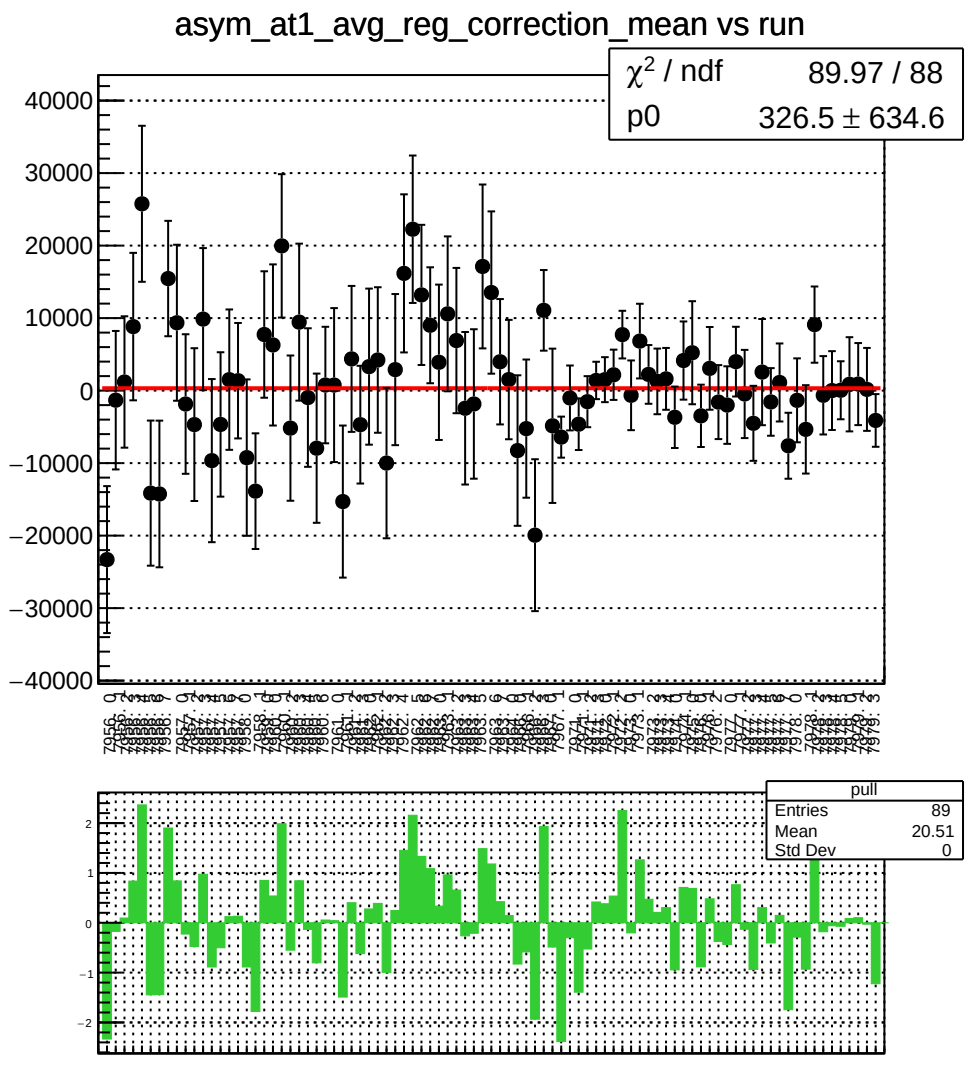

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.57 / 88
p0 −3.188e−13 ± 4.483e−13
pull
Entries 89
Mean 19.38
Std Dev 50.96
pull1D
Entries 89
Mean 0.03285
Std Dev 0.927

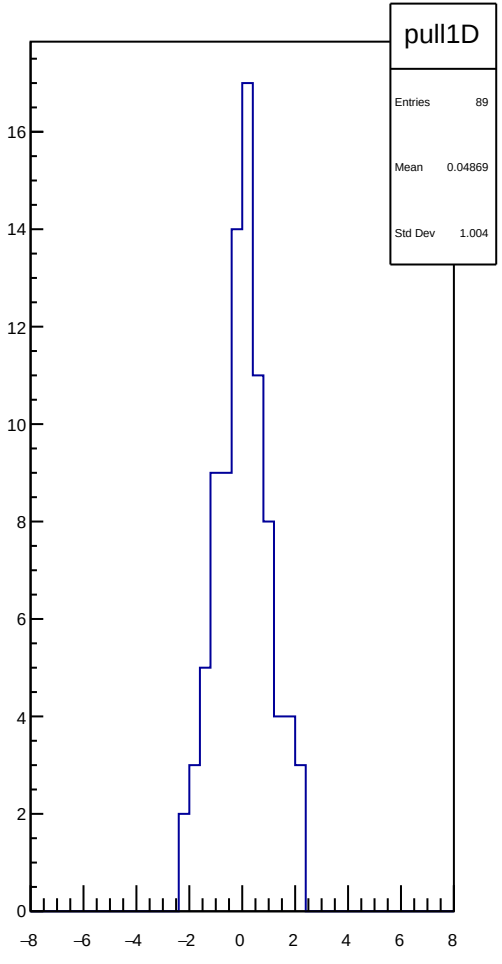

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.01e+06 / 88
p0 2.801e−10 ± 3.17e−13
2.5
2
1.5
1
0.5

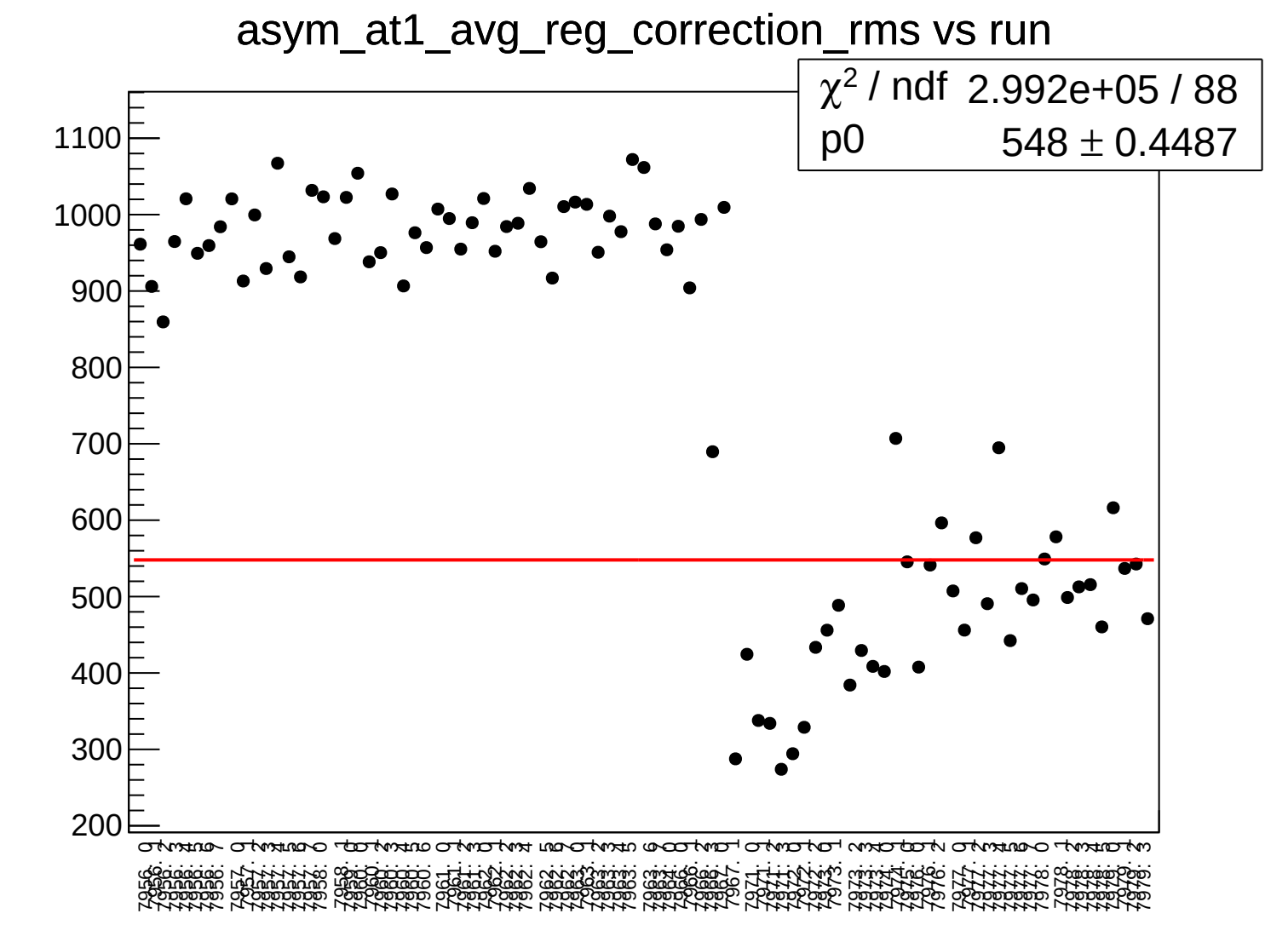

reg_asym_at1_avg_mean vs run
χ² / ndf 75.46 / 88
p0 −3874 ± 1923
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −167.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

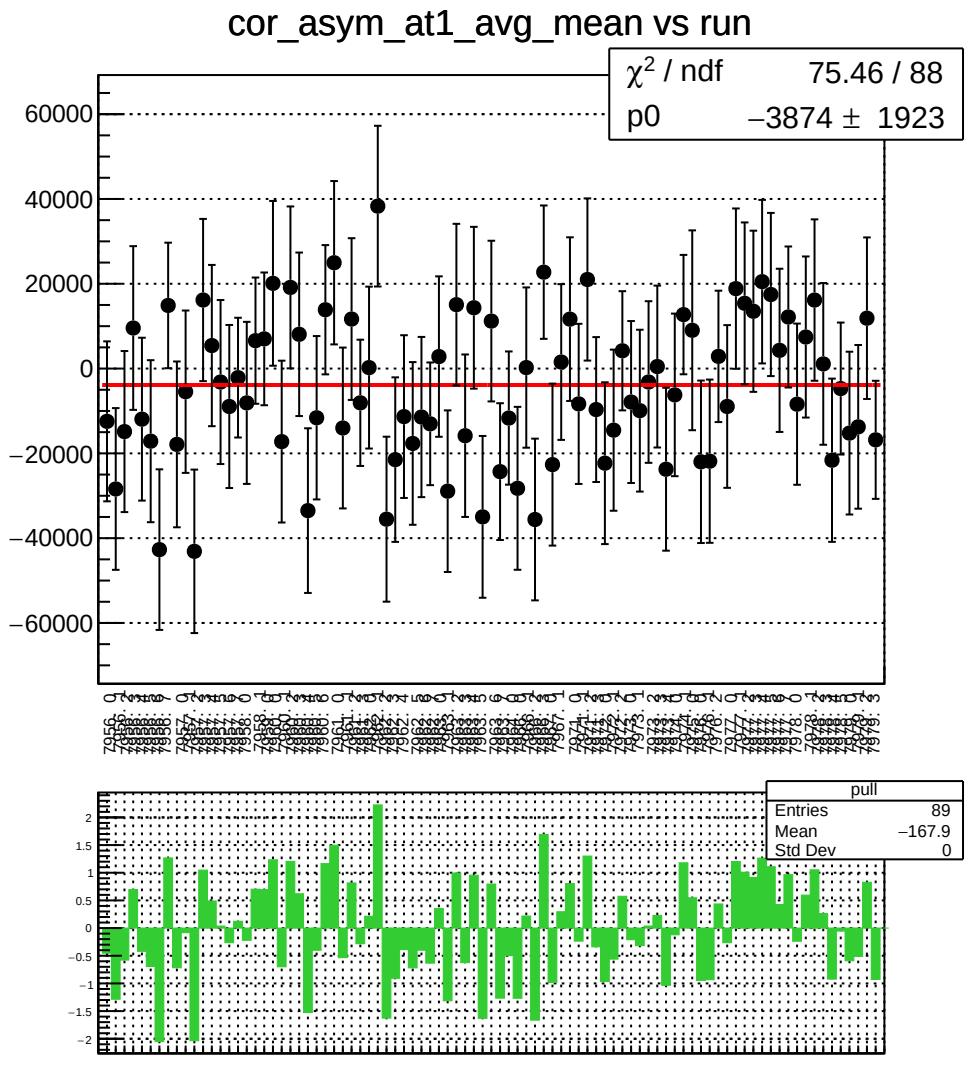

pull1D
Entries 89
Mean −0.01424
Std Dev 0.9207
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

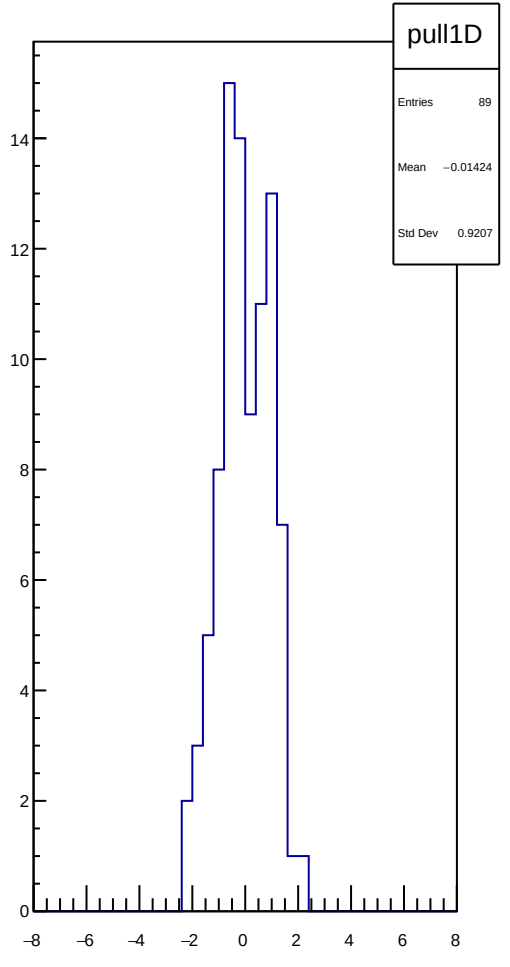

reg_asym_at1_avg_rms vs run
χ² / ndf 277.3 / 88
p0 1820 ± 1.36
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

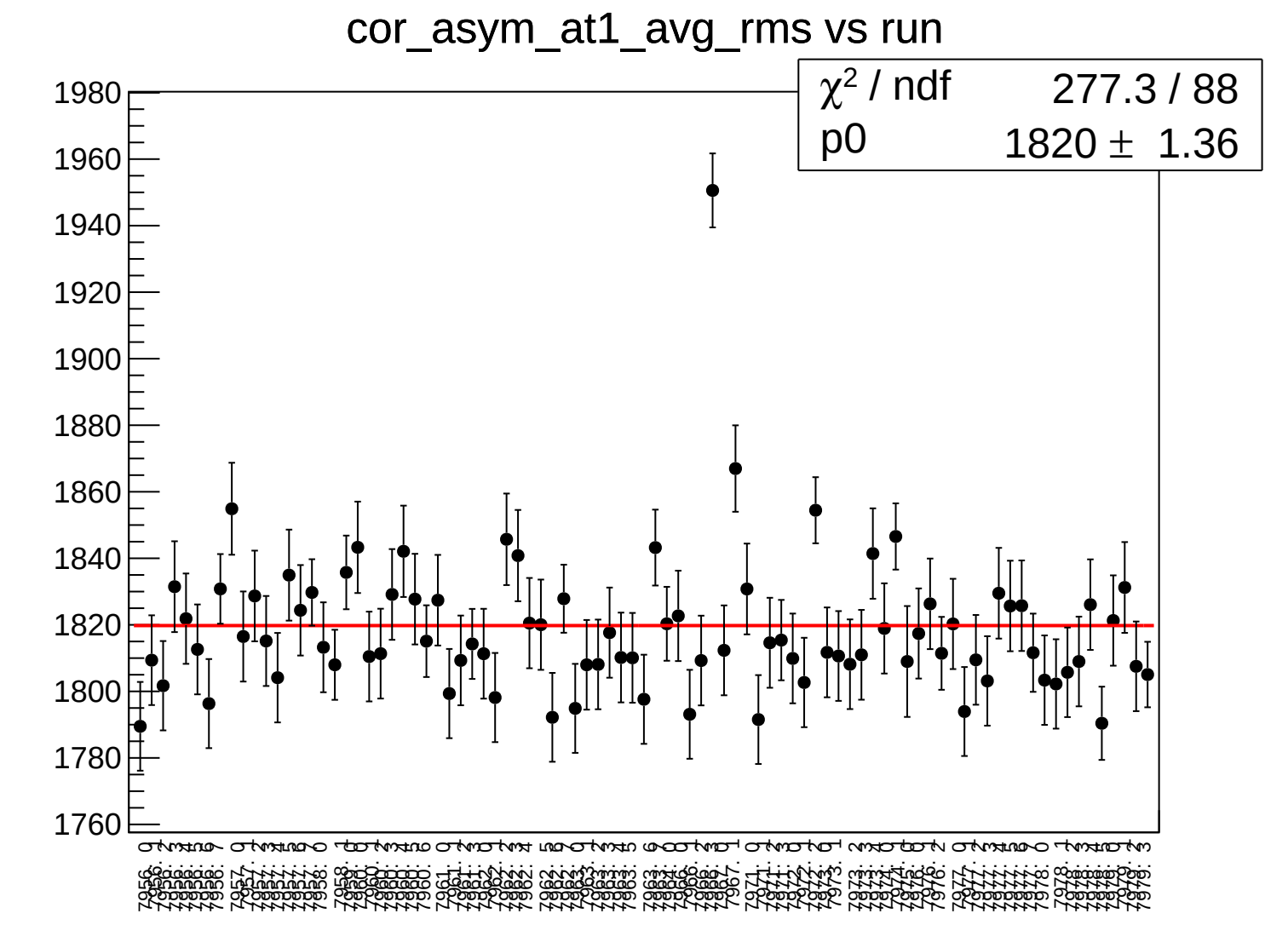

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 89.97 / 88
p0 326.5 ± 634.6
pull
Entries 89
Mean 20.51
Std Dev 0

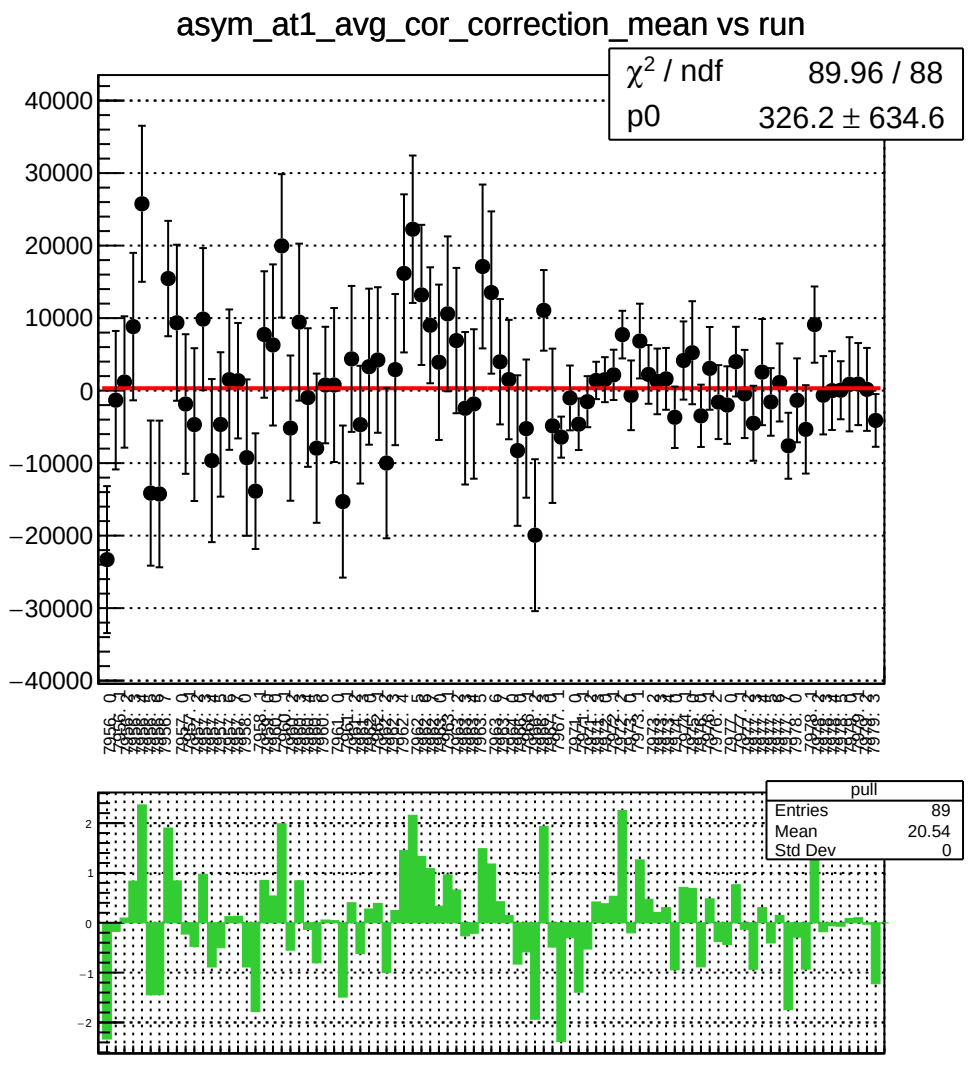

pull1D
Entries 89
Mean 0.04869
Std Dev 1.004

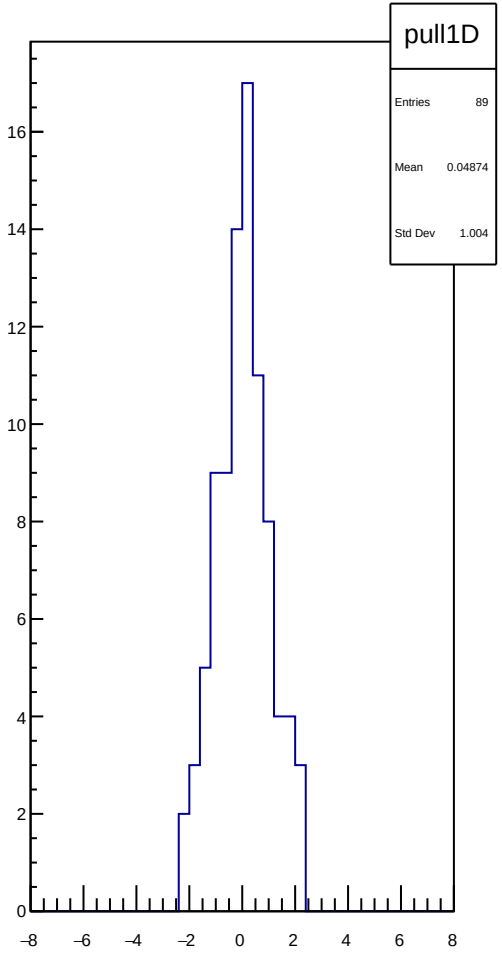

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.992e+05 / 88
p0 548 ± 0.4487
1100
1000
900
800
700
600
500
400
300
200

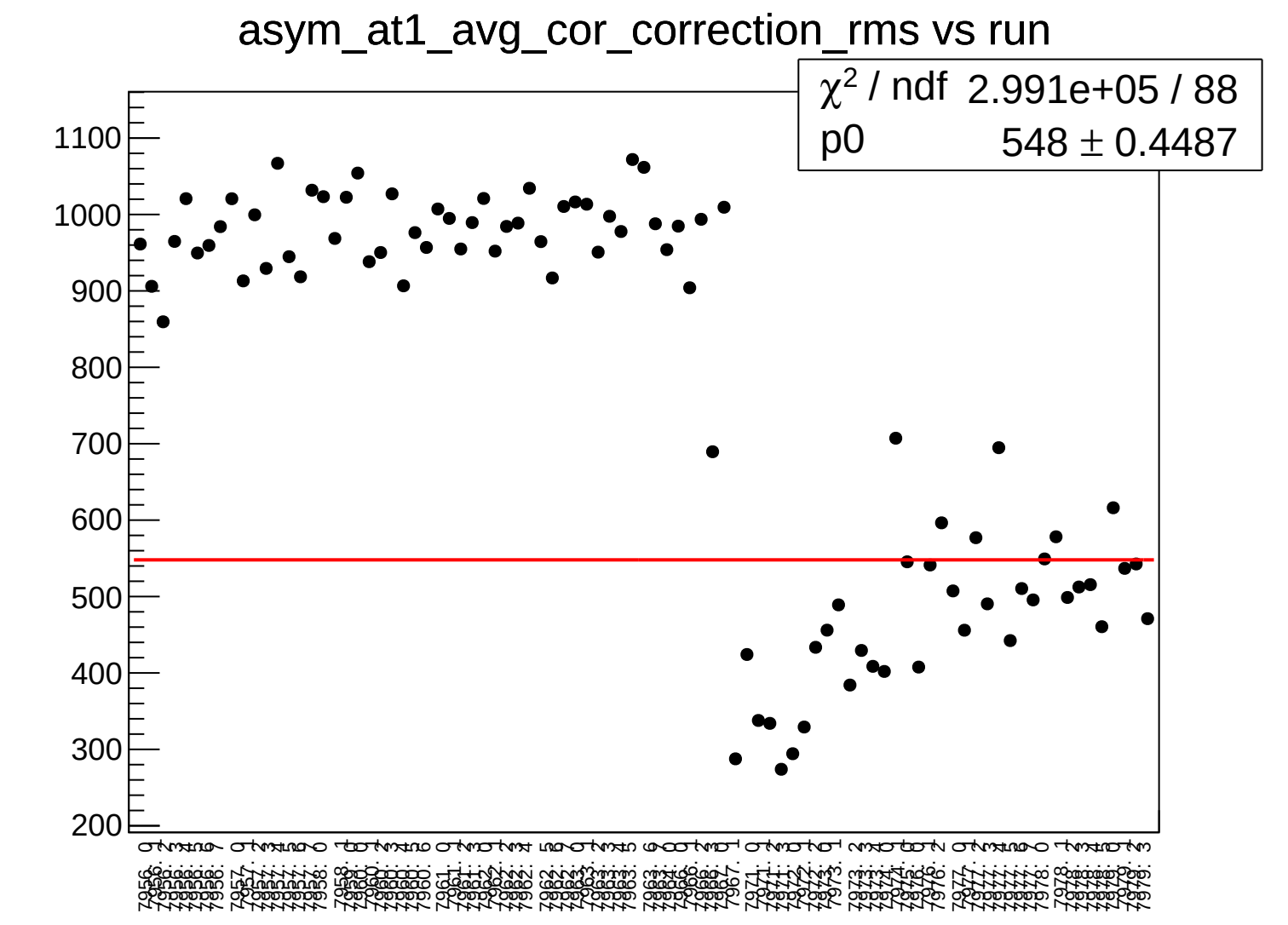

cor_asym_at1_avg_mean vs run
χ² / ndf 75.46 / 88
p0 −3874 ± 1923
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −167.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

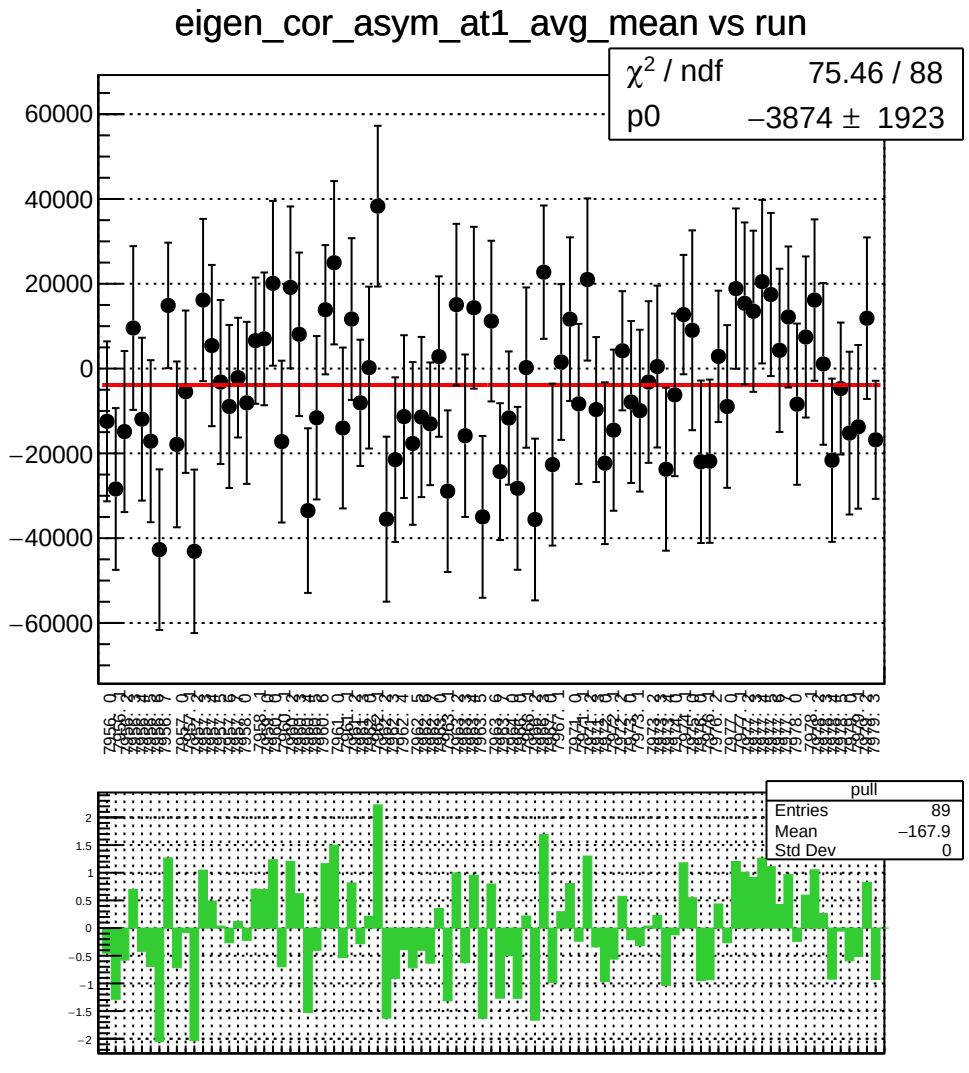

pull1D
Entries 89
Mean −0.01424
Std Dev 0.9207
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

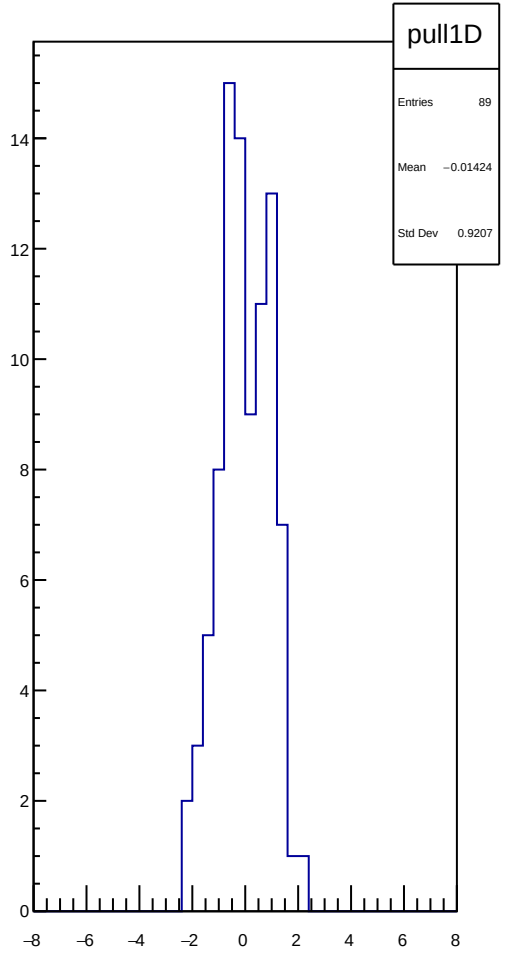

cor_asym_at1_avg_rms vs run
χ² / ndf 277.3 / 88
p0 1820 ± 1.36
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

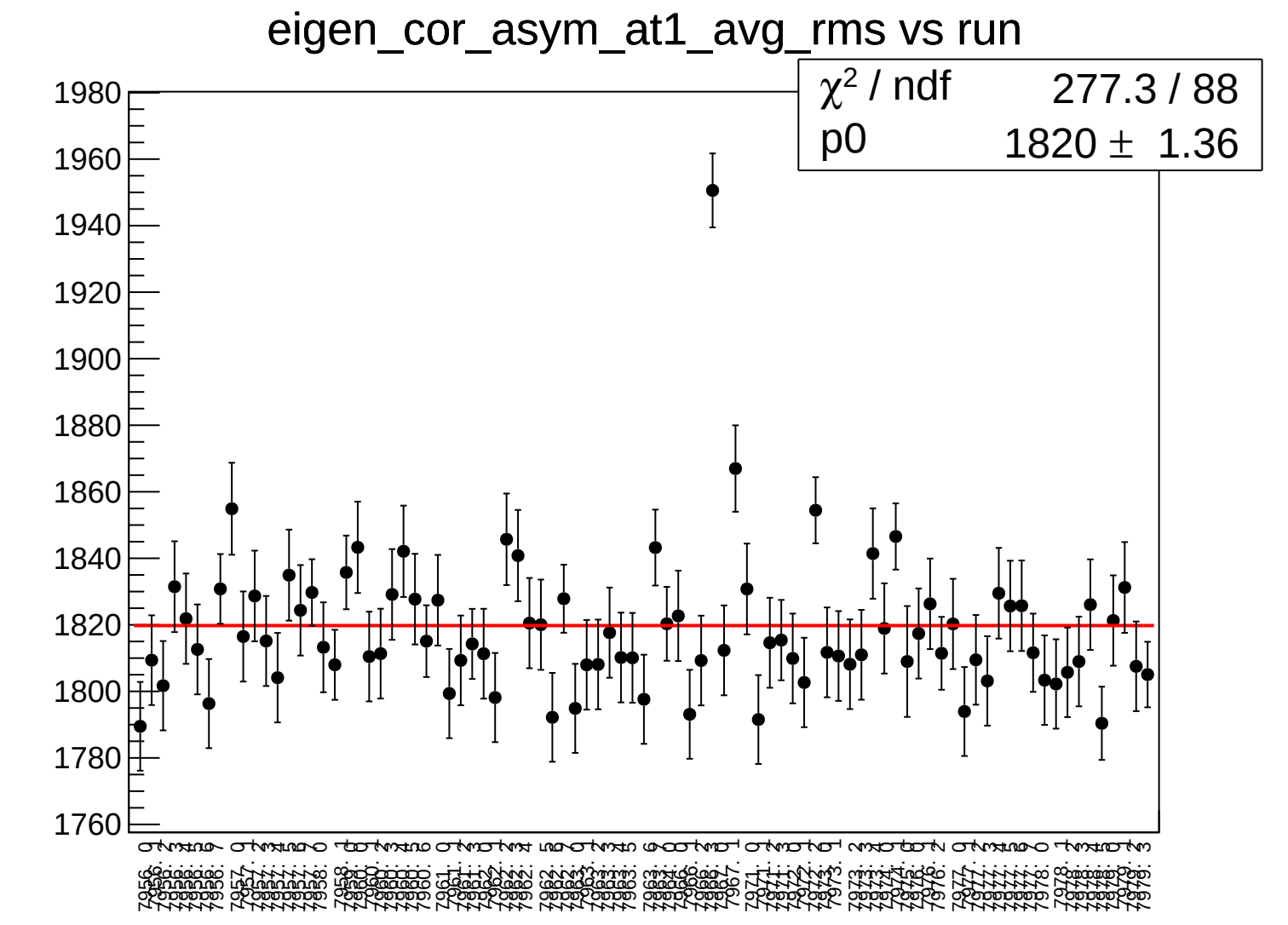

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 89.96 / 88
p0 326.2 ± 634.6
pull
Entries 89
Mean 20.54
Std Dev 0

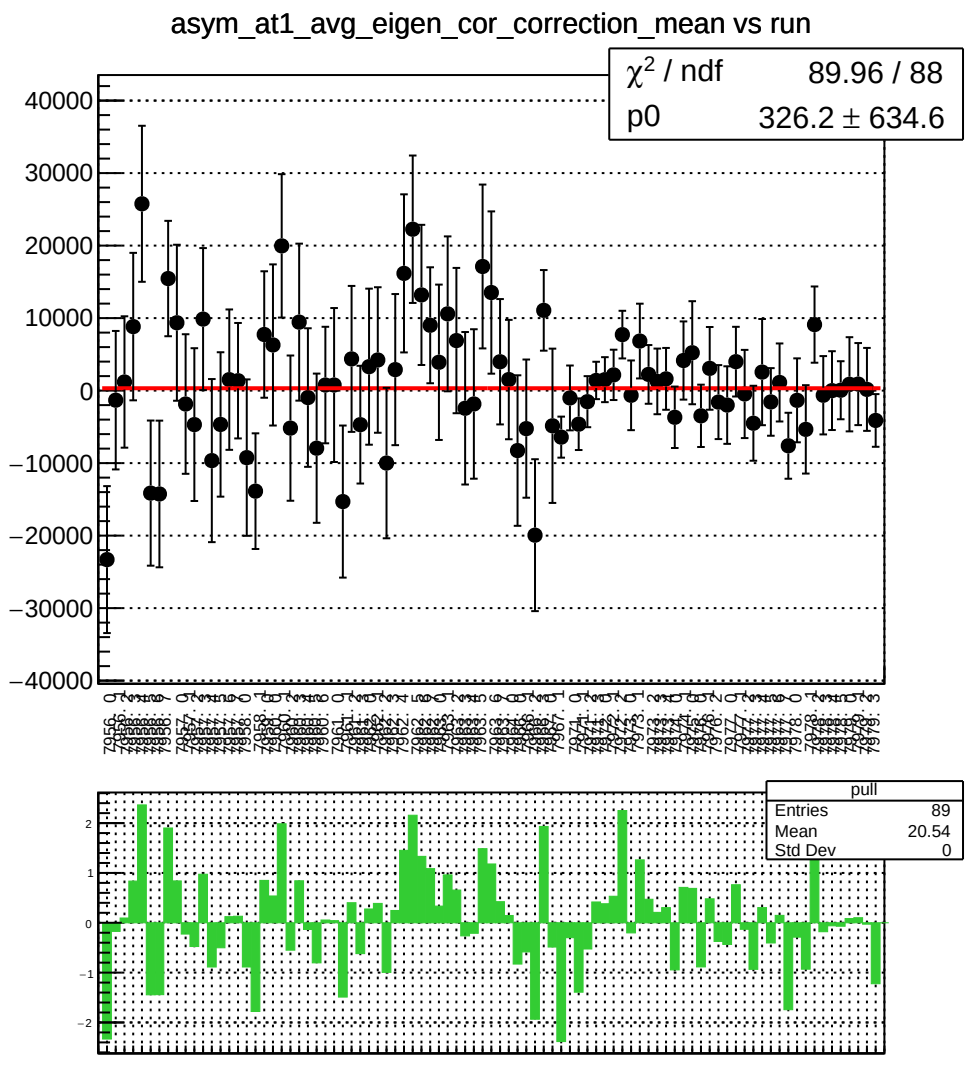

pull1D
Entries 89
Mean 0.04874
Std Dev 1.004

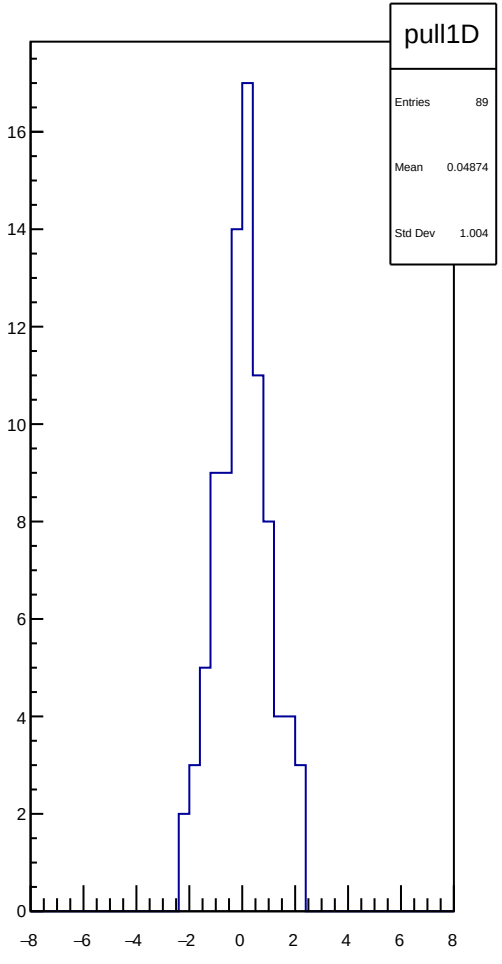

asym_at1_avg_cor_correction_rms vs run
$\chi^2$ / ndf 2.991e+05 / 88
p0 548 ± 0.4487
1100
1000
900
800
700
600
500
400
300
200

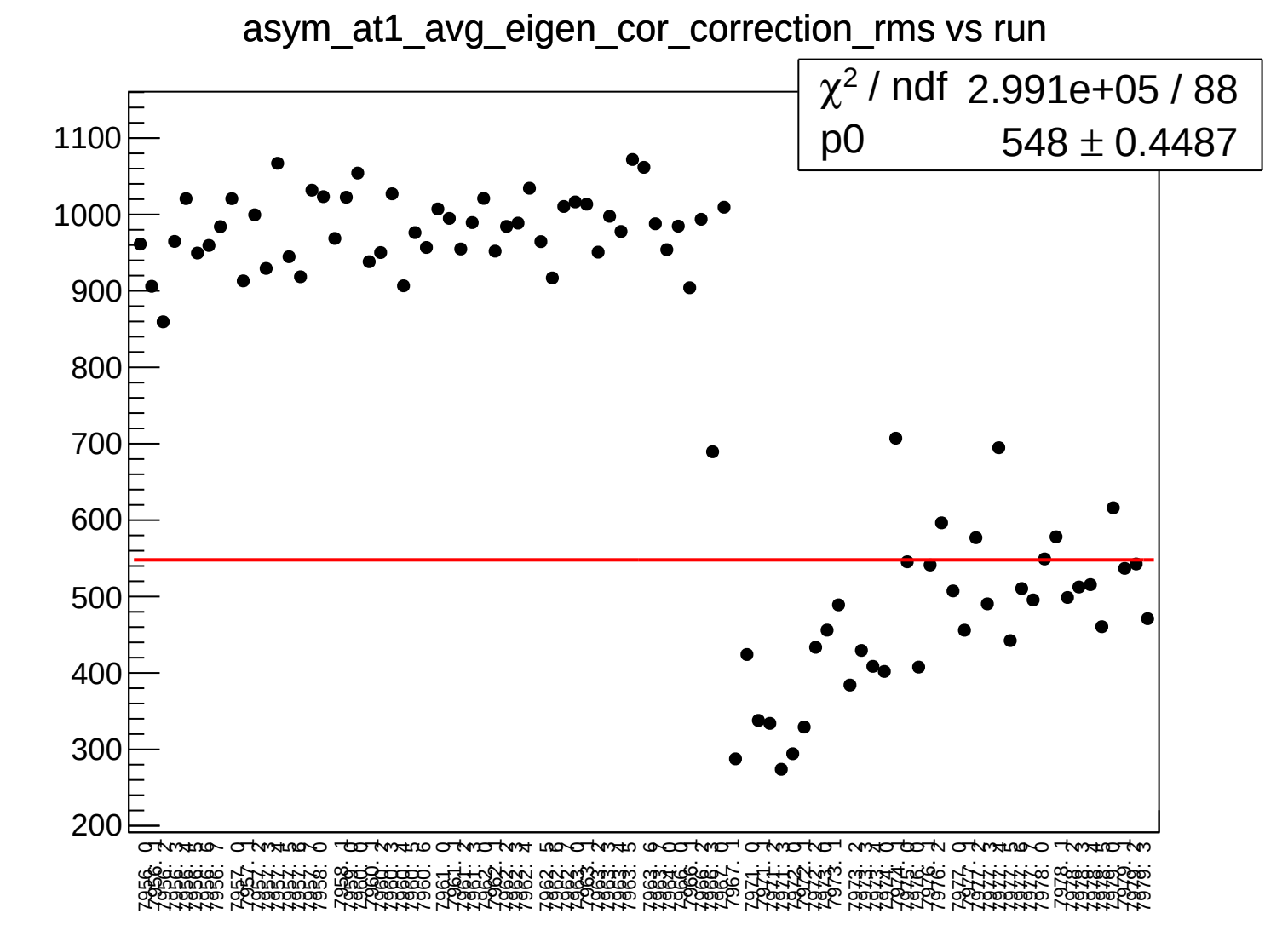

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 75.46 / 88
p0 −3874 ± 1923
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −167.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

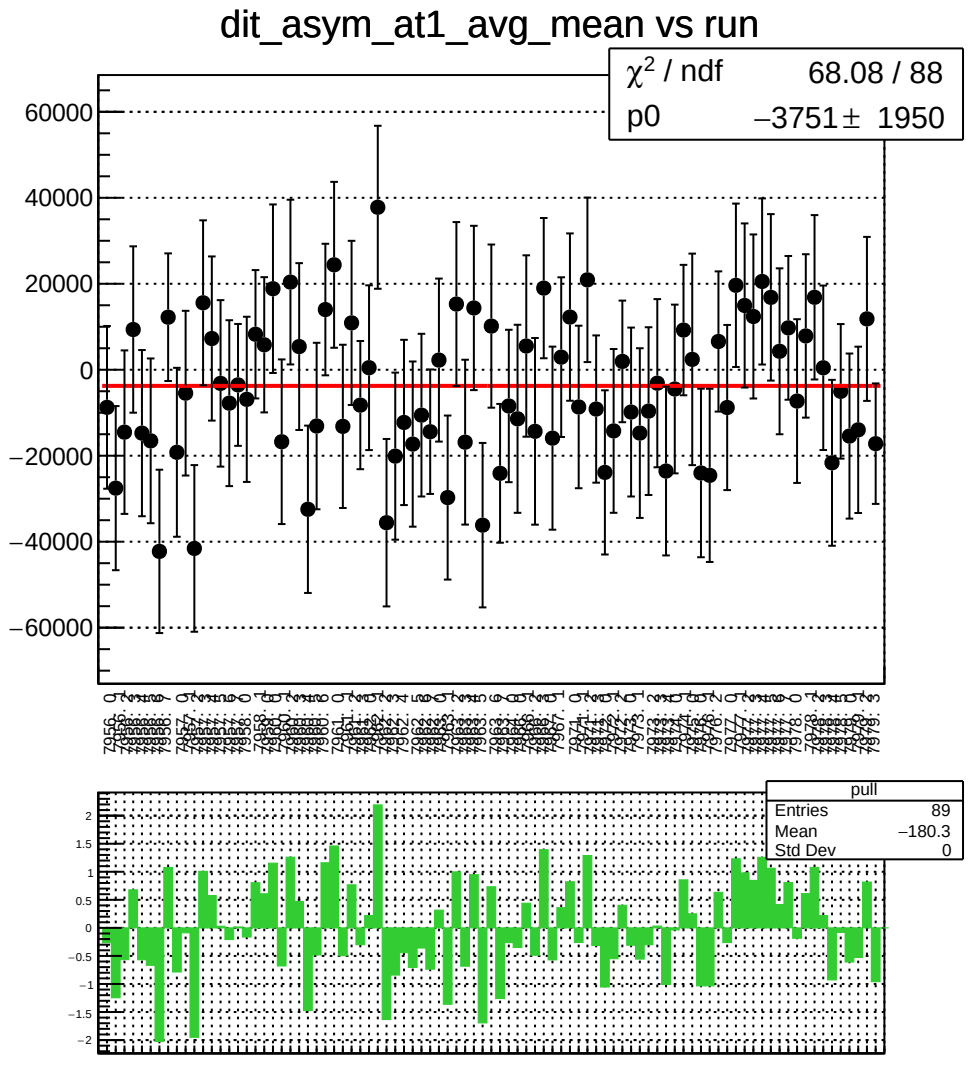

pull1D
Entries 89
Mean −0.01424
Std Dev 0.9207
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

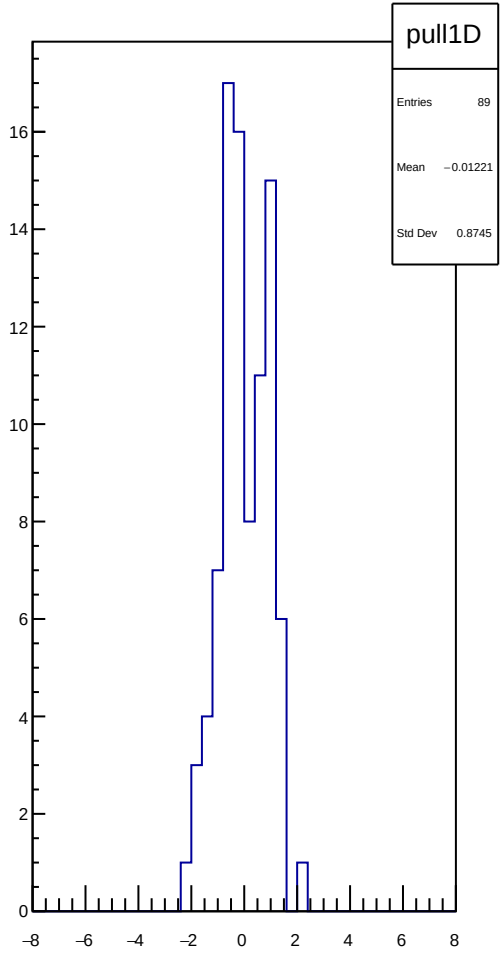

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 277.3 / 88
p0 1820 ± 1.36
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

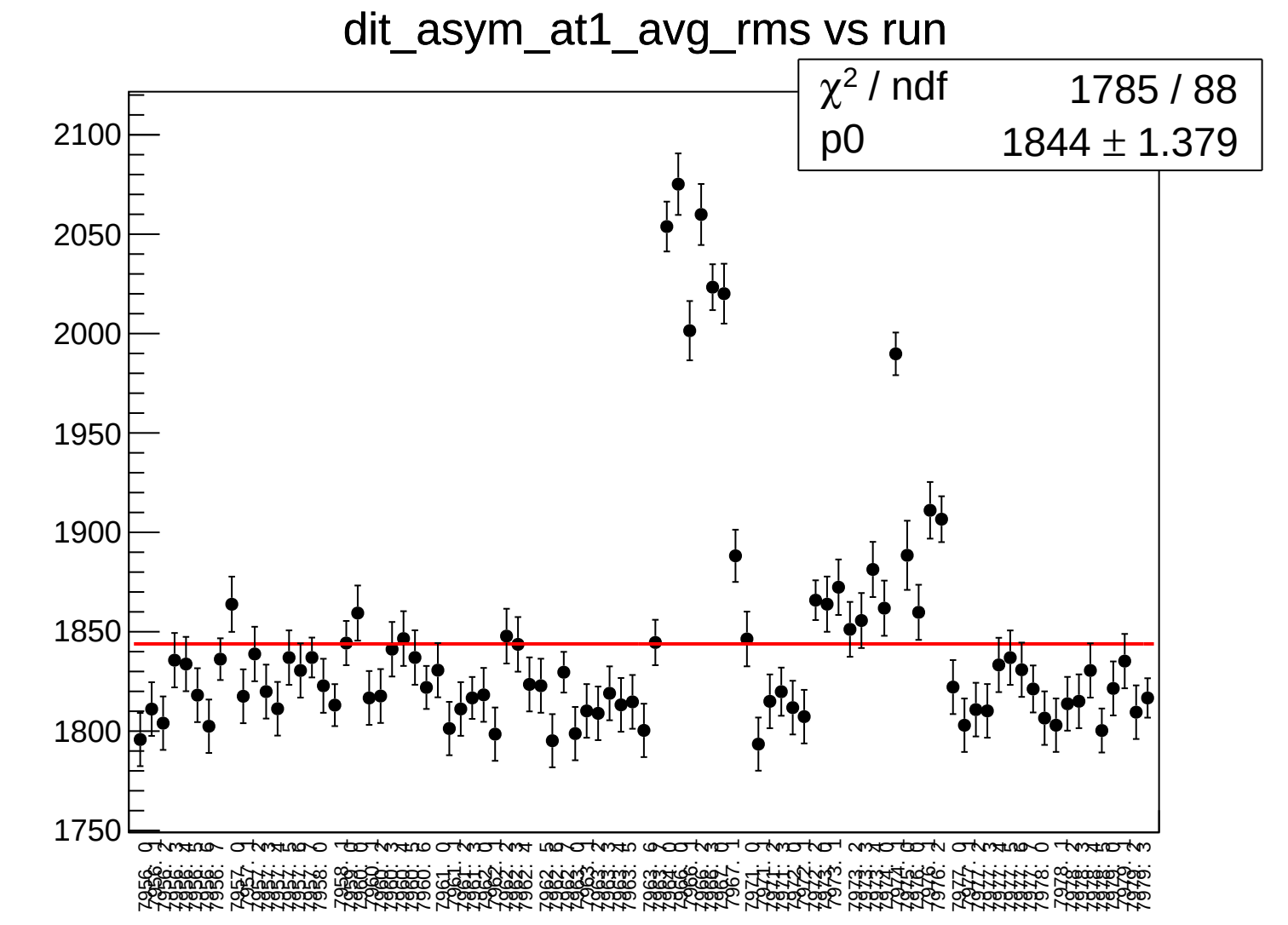

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.96 / 88
p0 326.2 ± 634.6
pull
Entries 89
Mean 20.54
Std Dev 0

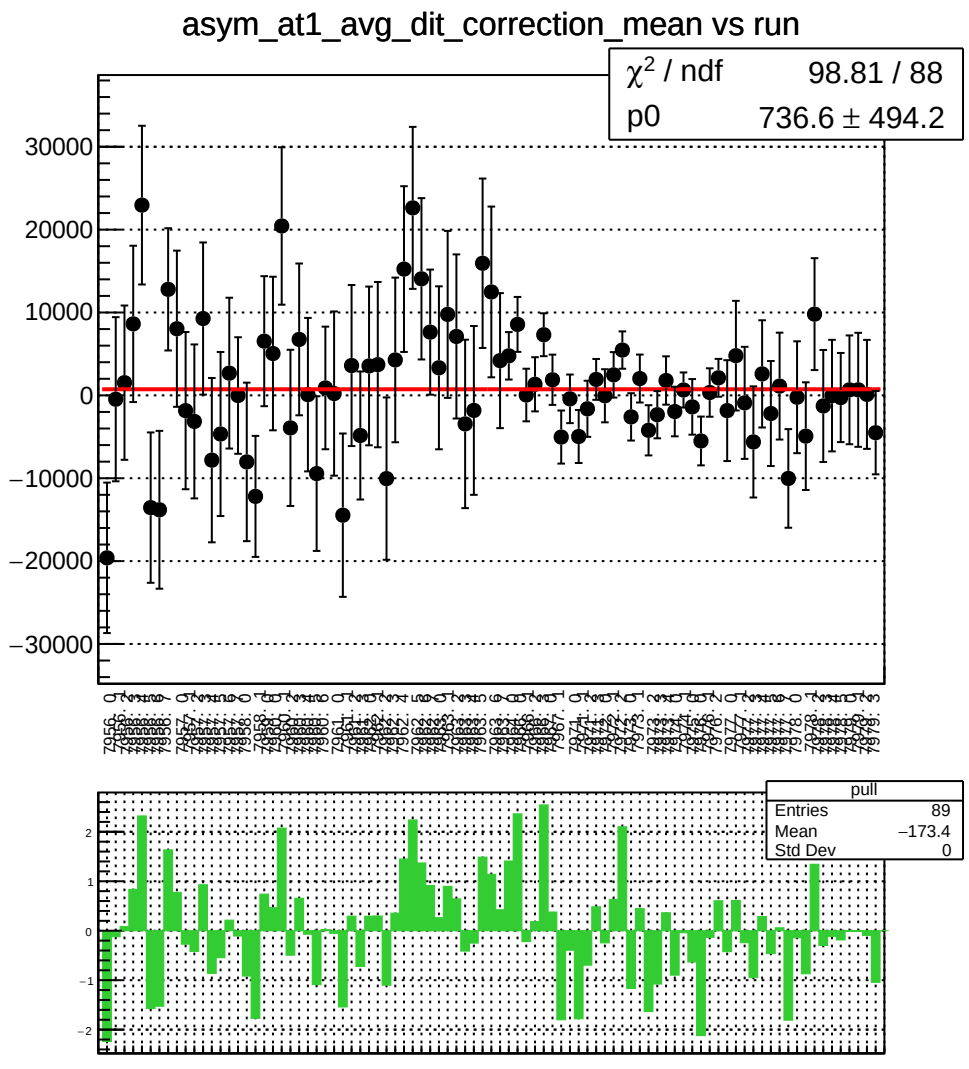

pull1D
Entries 89
Mean 0.04874
Std Dev 1.004

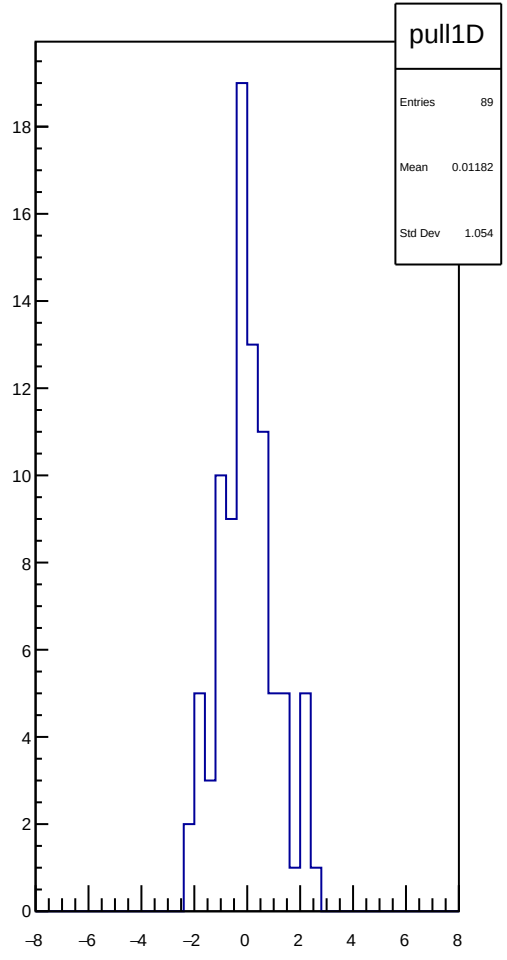

asym_at1_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 2.991e+05 / 88
p0 548 ± 0.4487
1100
1000
900
800
700
600
500
400
300
200

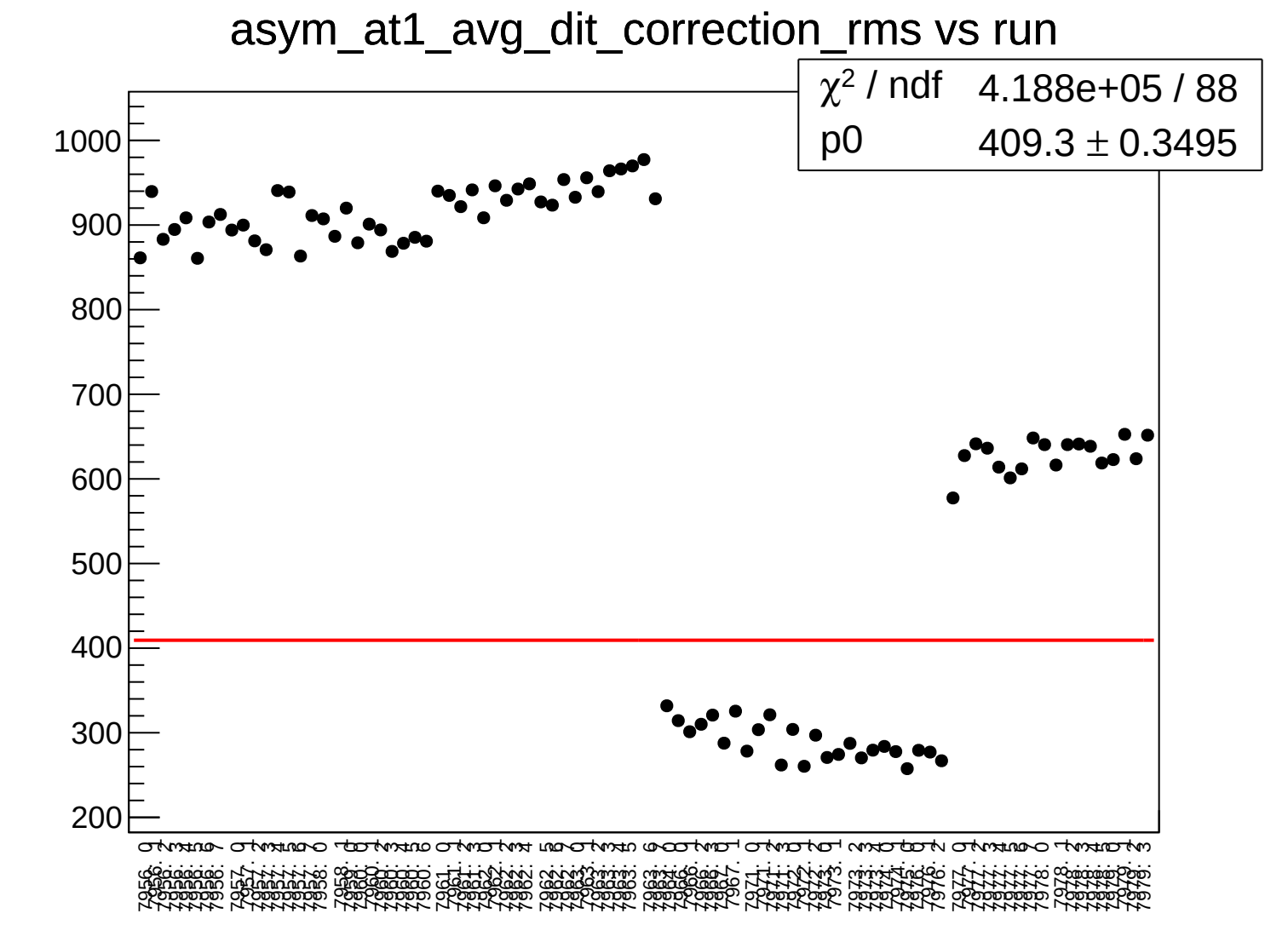

dit_asym_at1_avg_mean vs run
χ² / ndf 68.08 / 88
p0 −3751 ± 1950
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −180.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

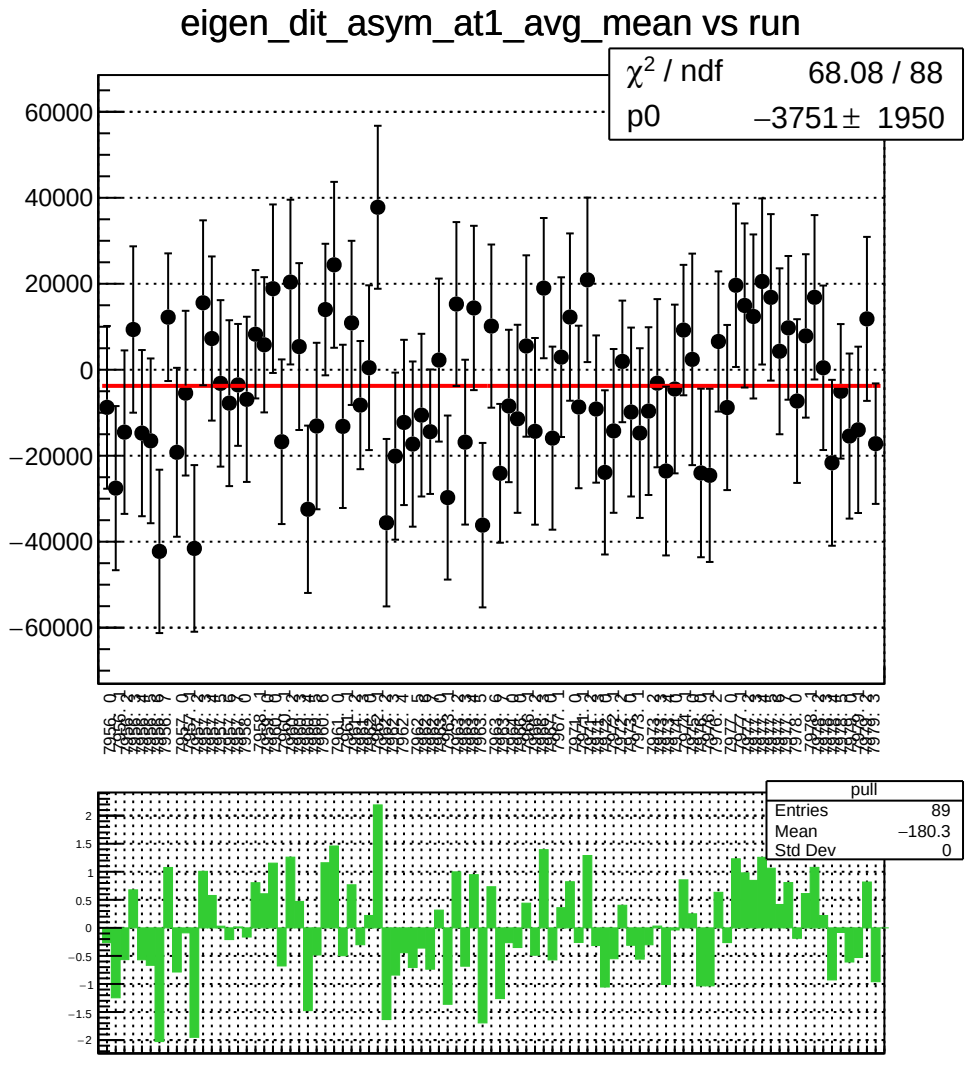

pull1D
Entries 89
Mean −0.01221
Std Dev 0.8745
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

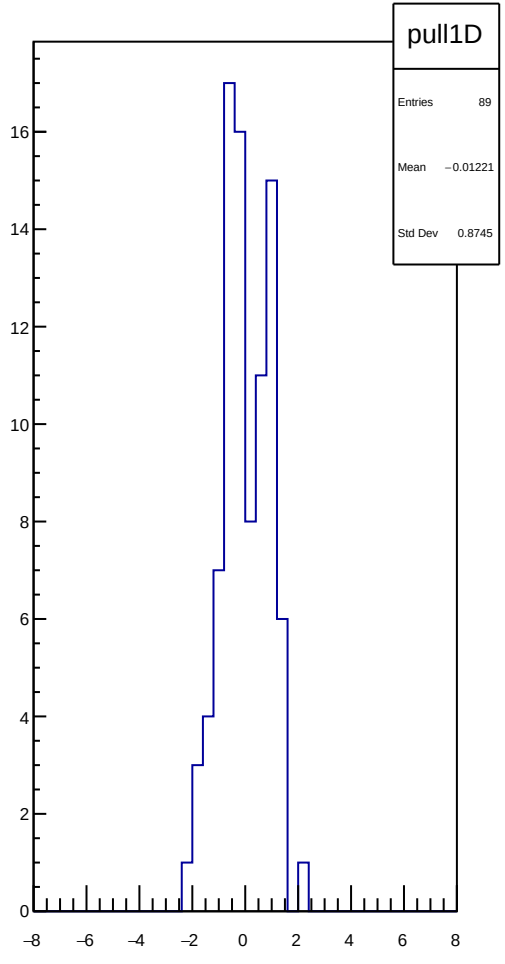

dit_asym_at1_avg_rms vs run
χ² / ndf 1785 / 88
p0 1844 ± 1.379
2100
2050
2000
1950
1900
1850
1800
1750

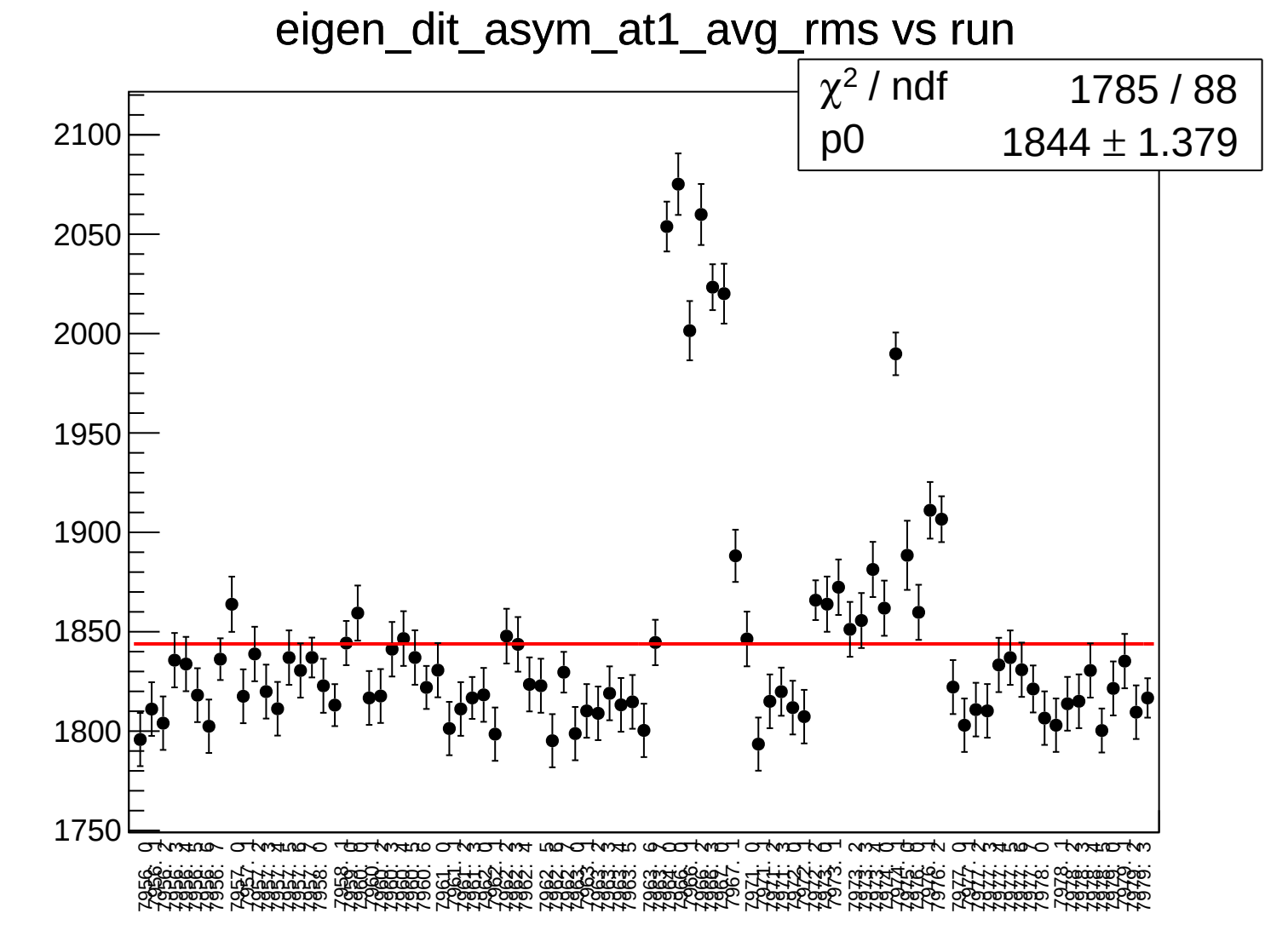

asym_at1_avg_dit_correction_mean vs run
$\chi^2$ / ndf 98.81 / 88
p0 736.6 ± 494.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −173.4
Std Dev 0
2
1
0
−1
−2

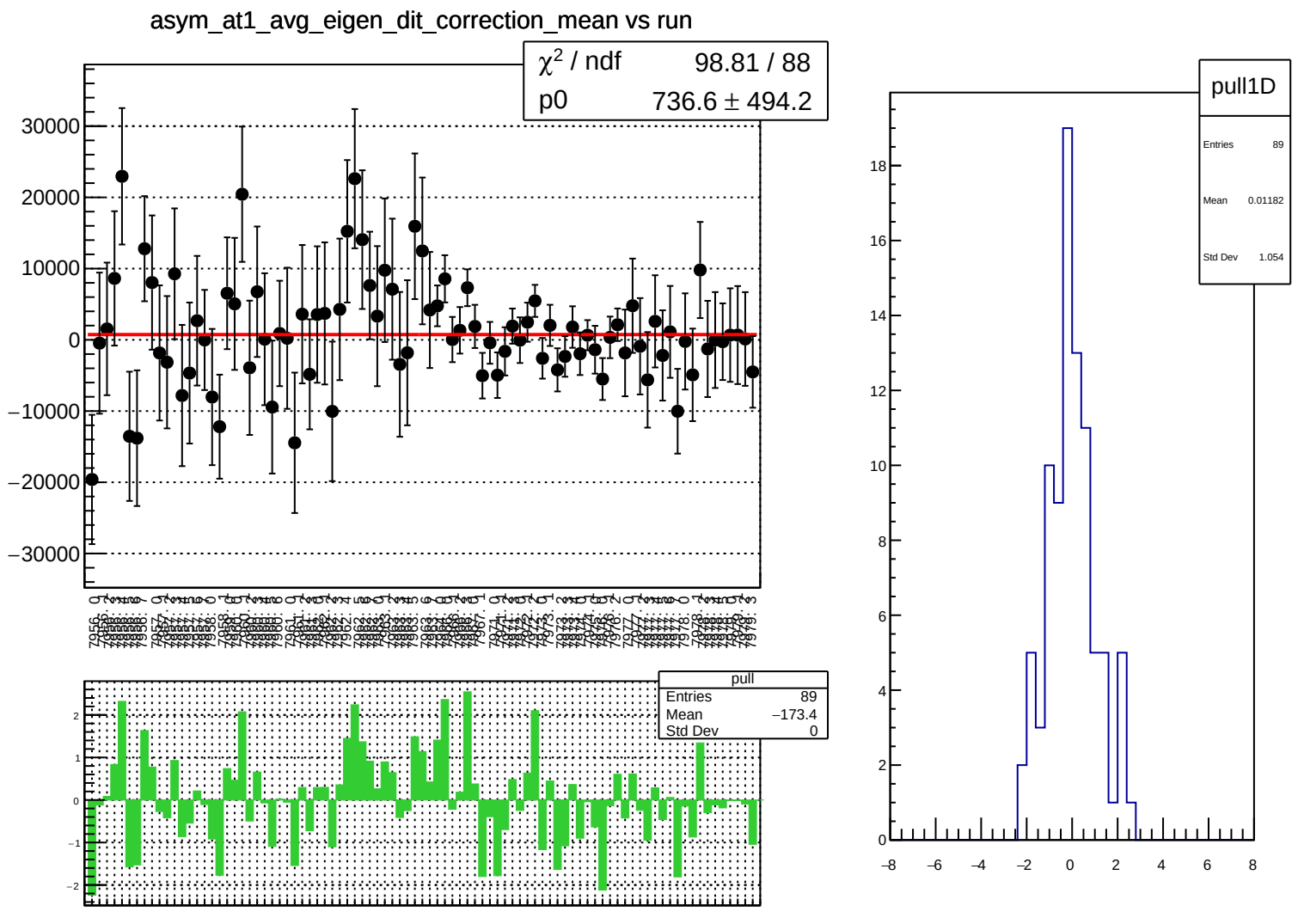

pull1D
Entries 89
Mean 0.01182
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

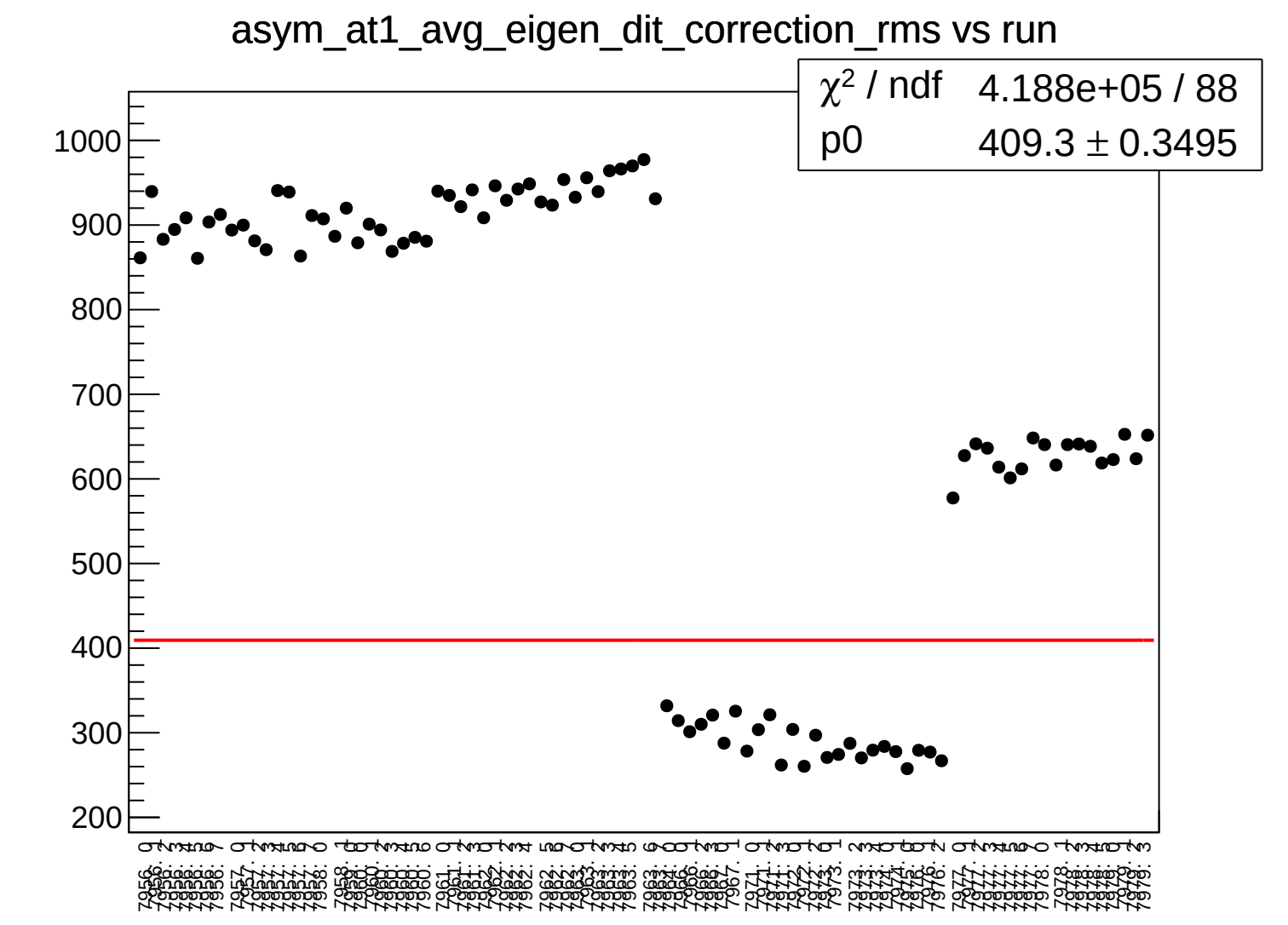

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 4.188e+05 / 88
p0 409.3 ± 0.3495
1000
900
800
700
600
500
400
300
200

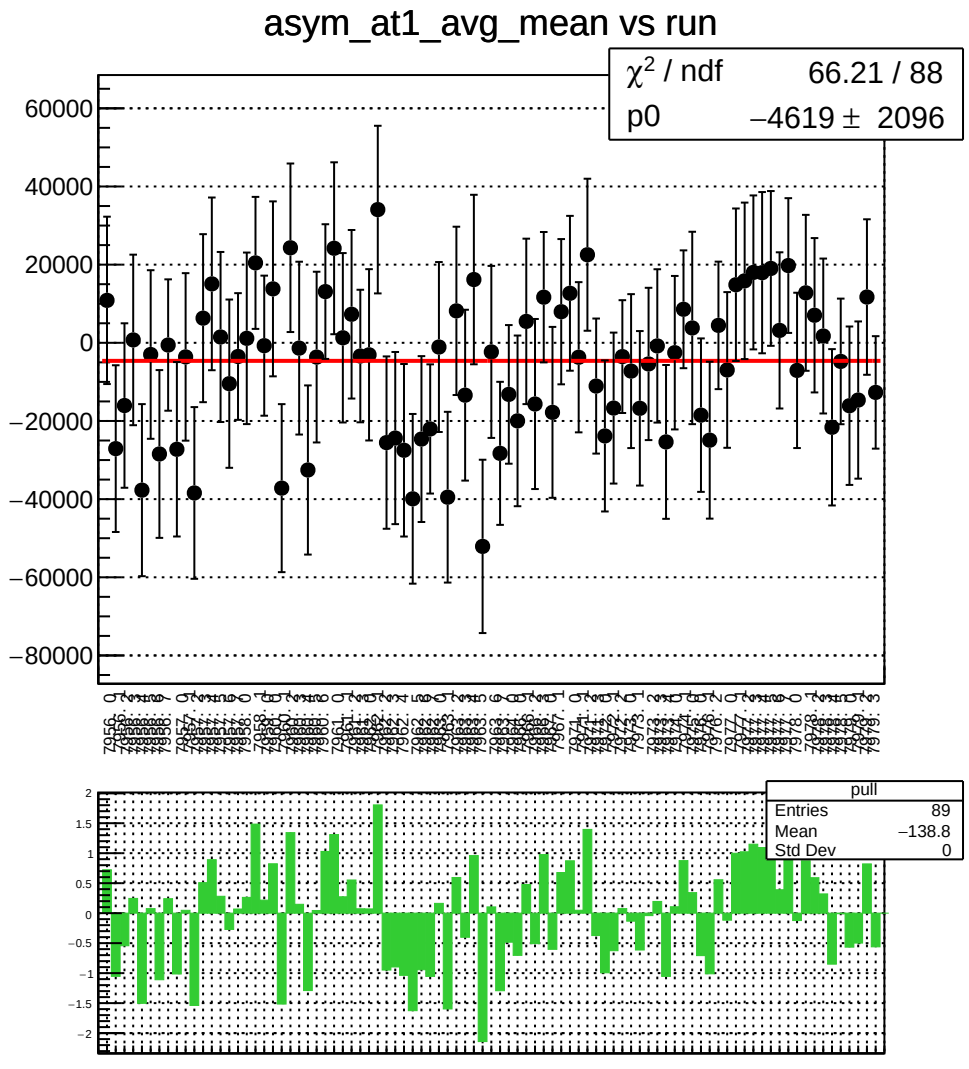

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 68.08 / 88
p0 −3751 ± 1950
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −180.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

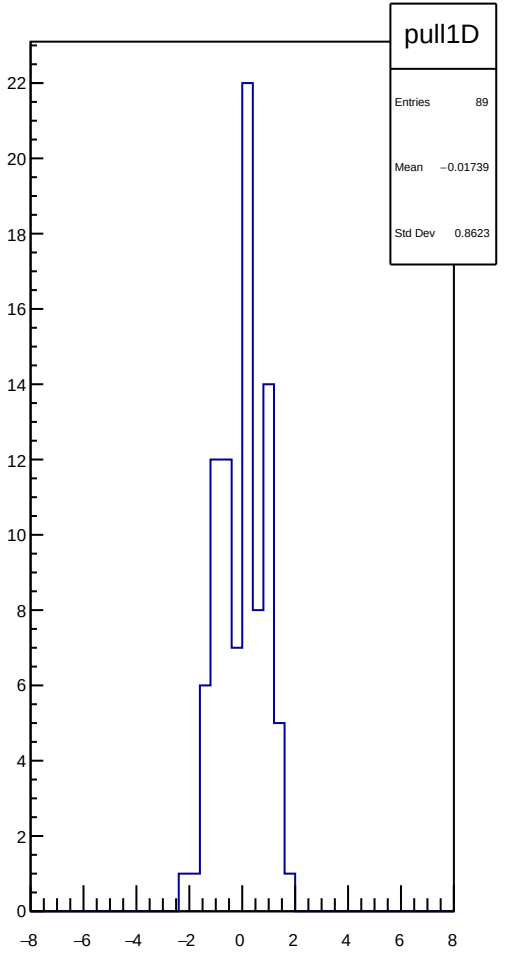

pull1D
Entries 89
Mean −0.01221
Std Dev 0.8745
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

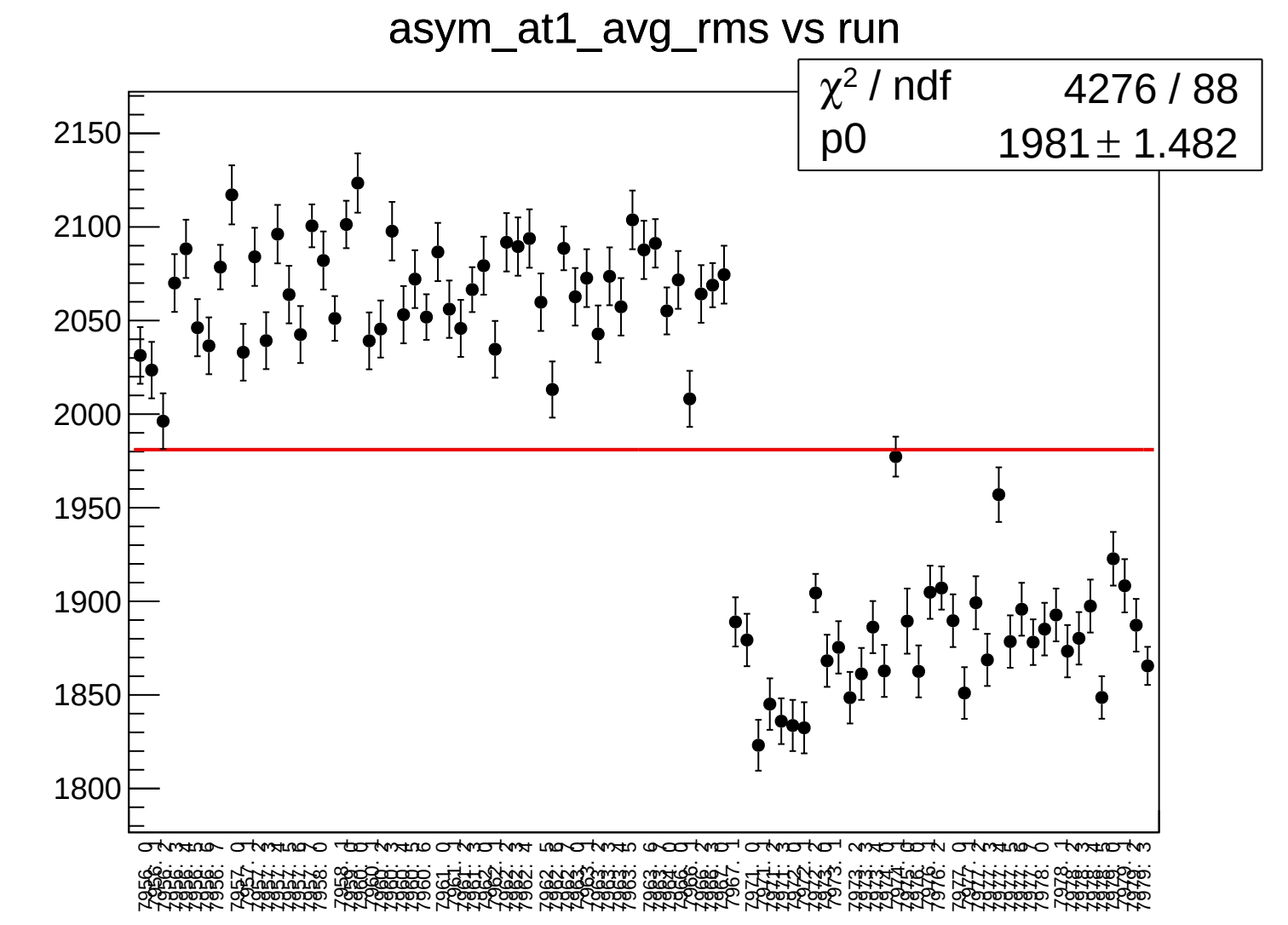

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 1785 / 88
p0 1844 ± 1.379
2100
2050
2000
1950
1900
1850
1800
1750

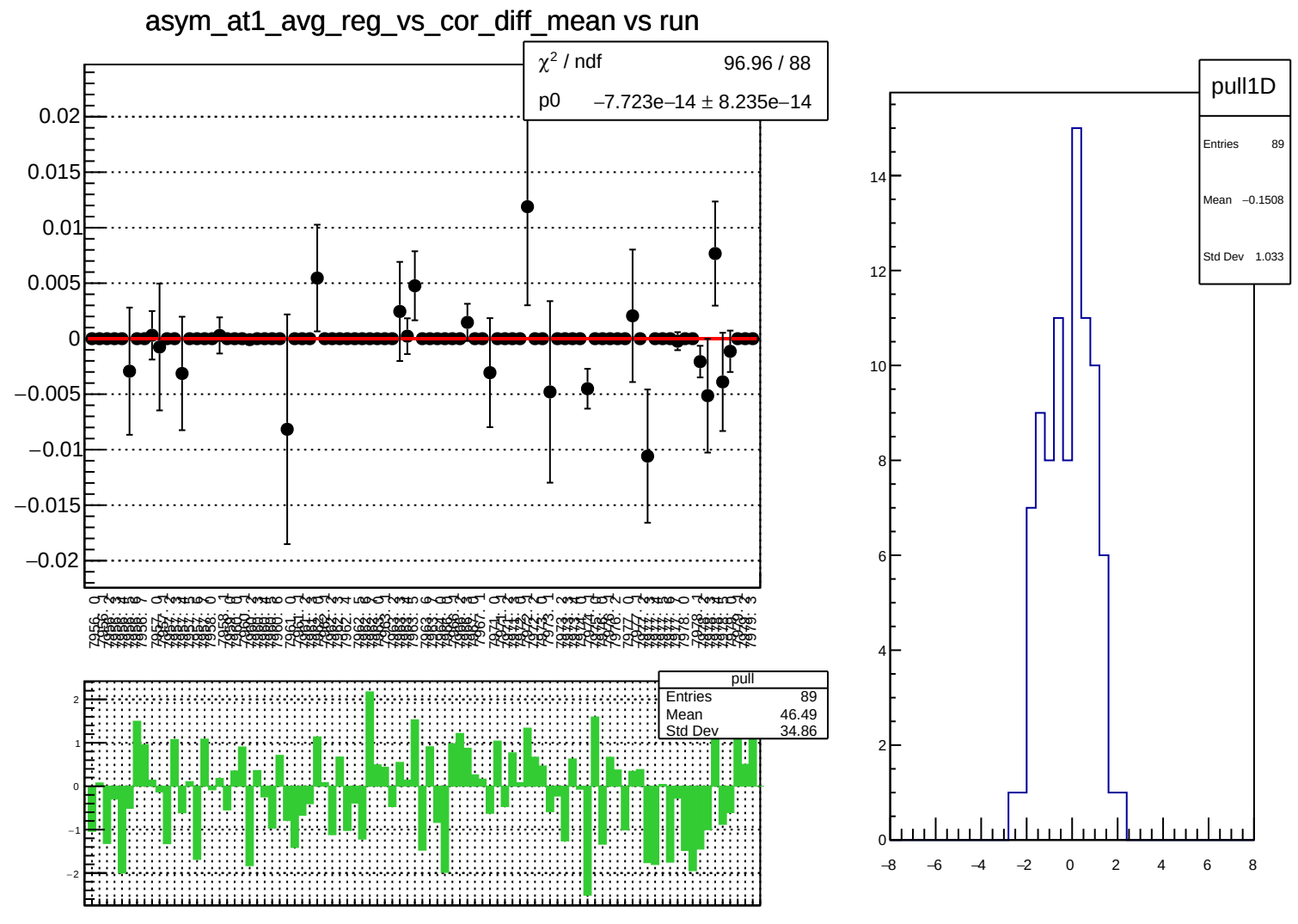

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.81 / 88
p0 736.6 ± 494.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −173.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01182
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

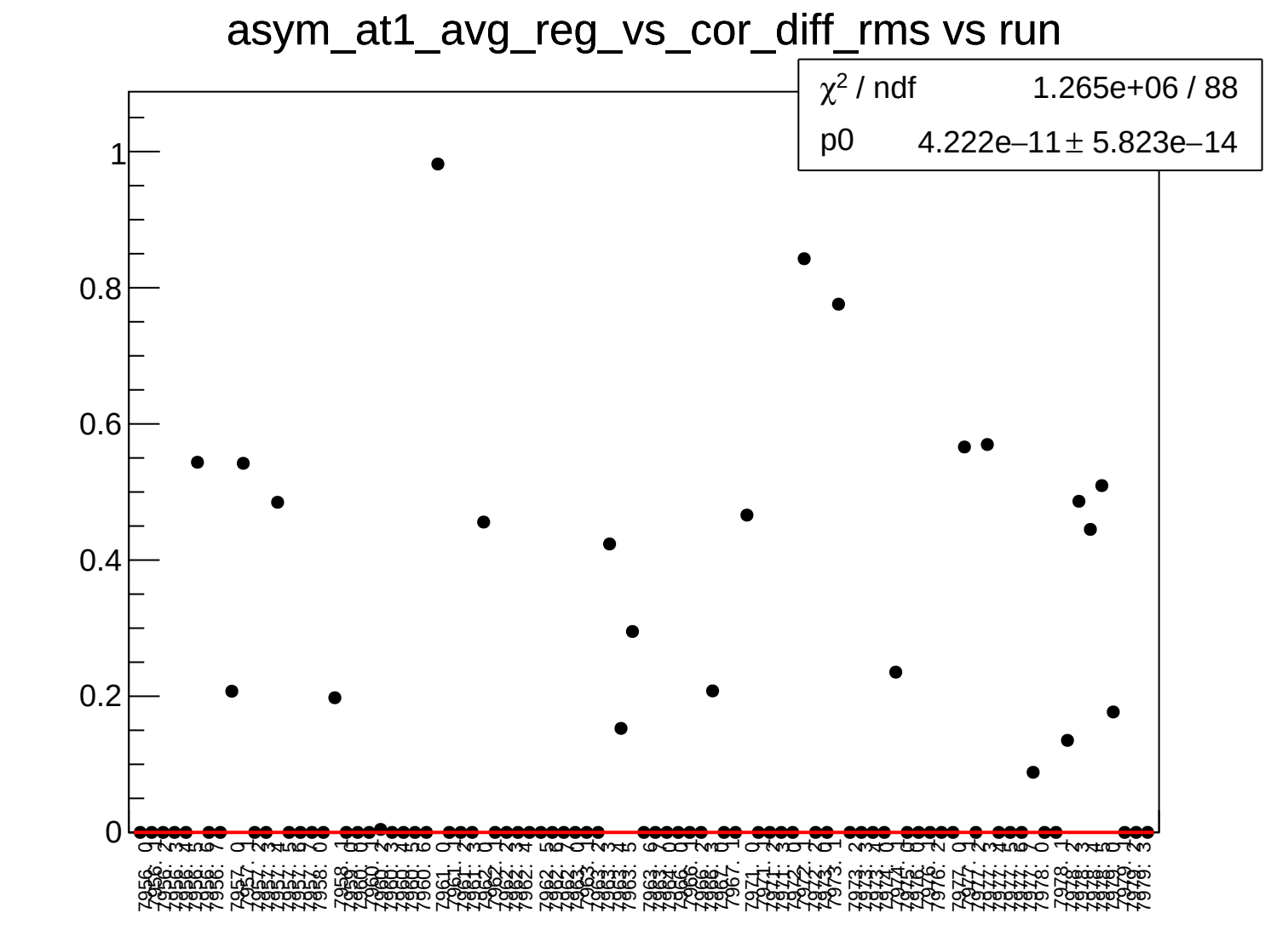

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.188e+05 / 88
p0 409.3 ± 0.3495
1000
900
800
700
600
500
400
300
200

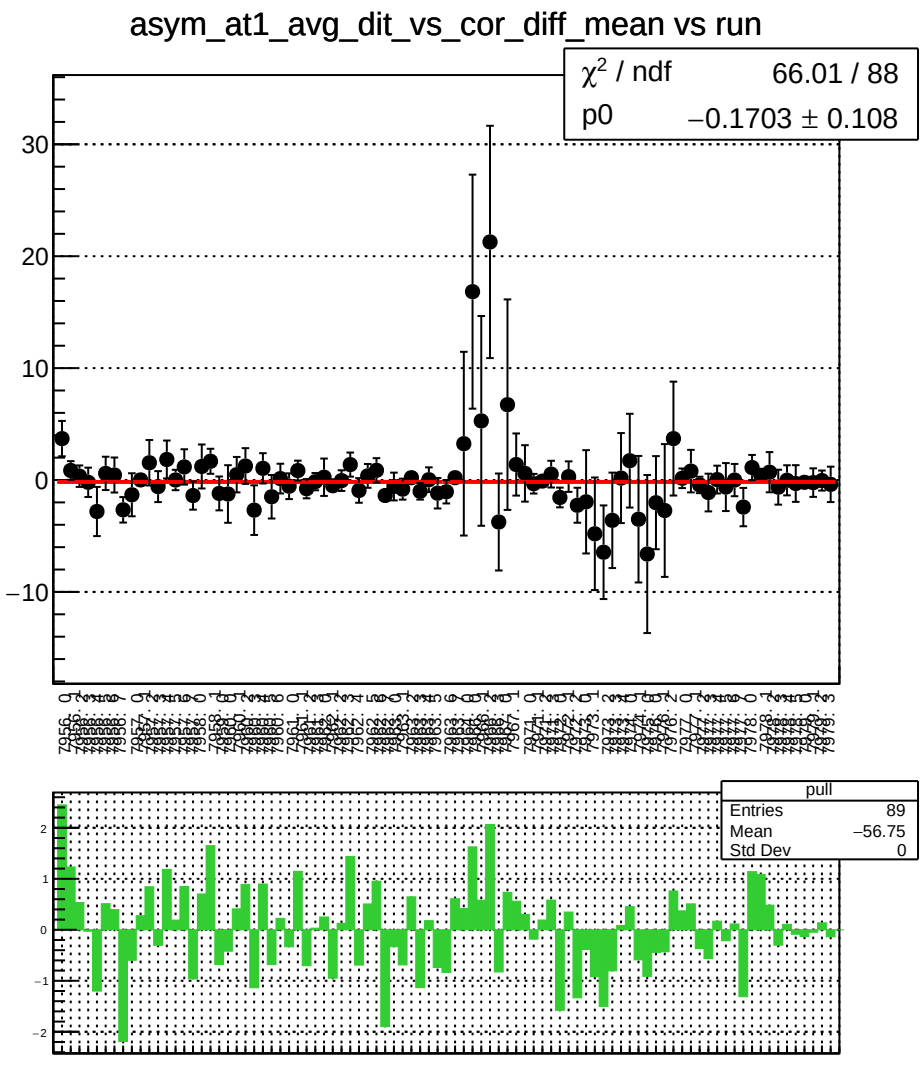

asym_at1_avg_mean vs run
χ² / ndf 66.21 / 88
p0 −4619 ± 2096
pull
Entries 89
Mean −138.8
Std Dev 0

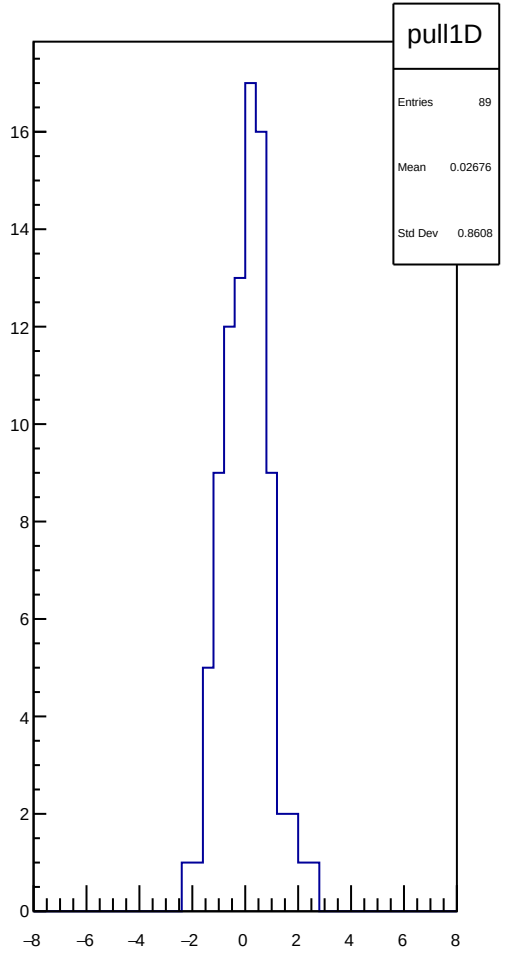

pull1D
Entries 89
Mean −0.01739
Std Dev 0.8623

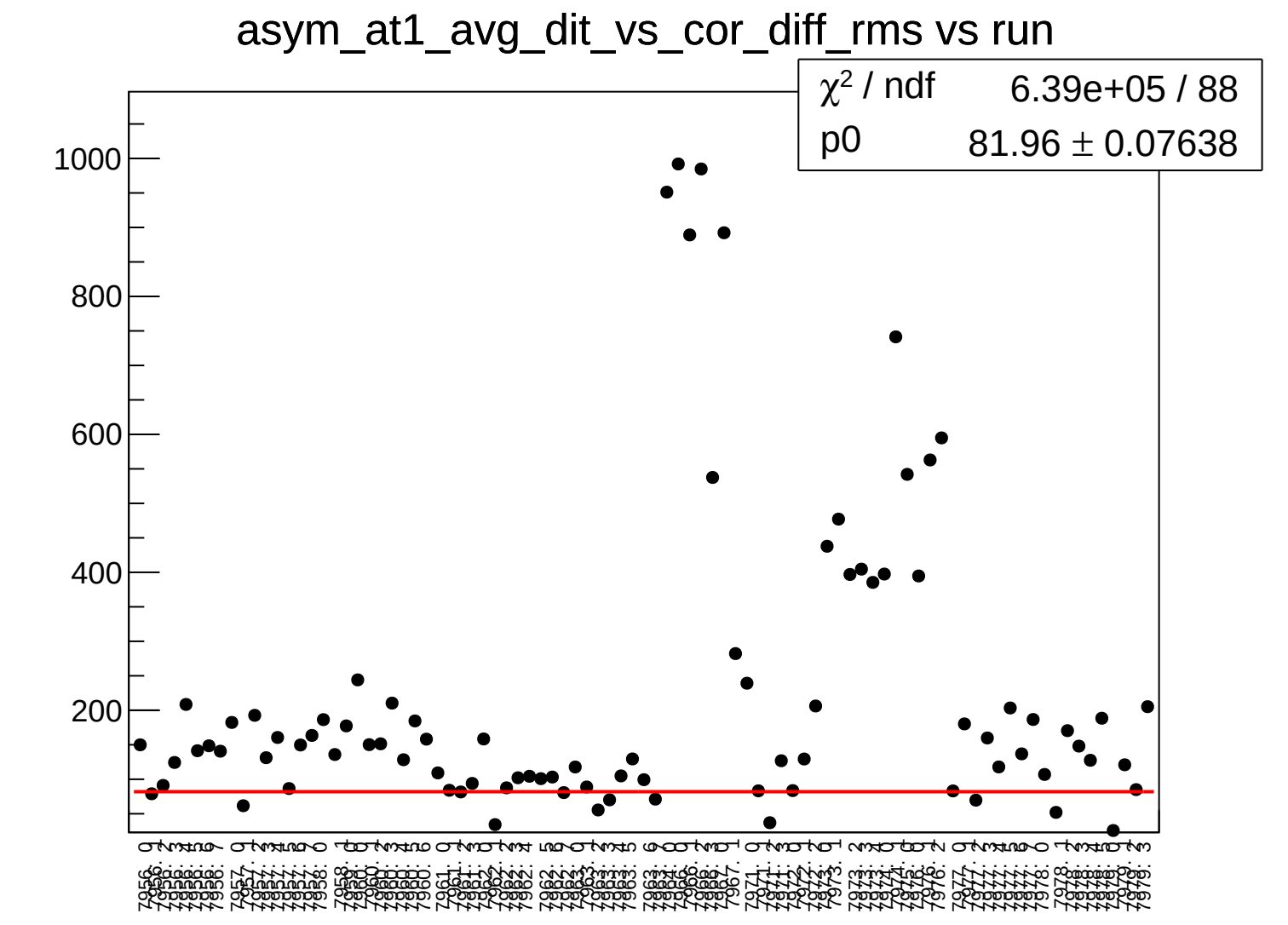

asym_at1_avg_rms vs run
χ² / ndf 4276 / 88
p0 1981 ± 1.482
2150
2100
2050
2000
1950
1900
1850
1800

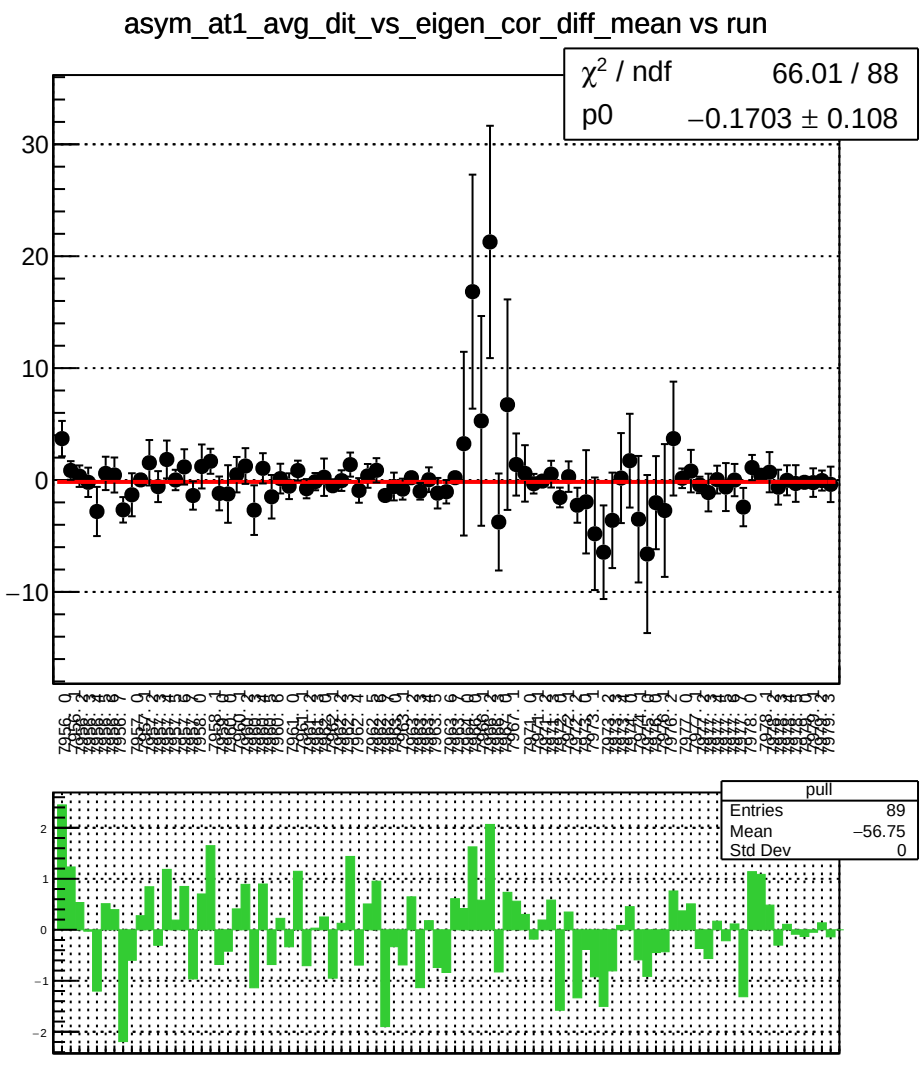

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.96 / 88
p0 −7.723e−14 ± 8.235e−14
pull
Entries 89
Mean 46.49
Std Dev 34.86
pull1D
Entries 89
Mean −0.1508
Std Dev 1.033

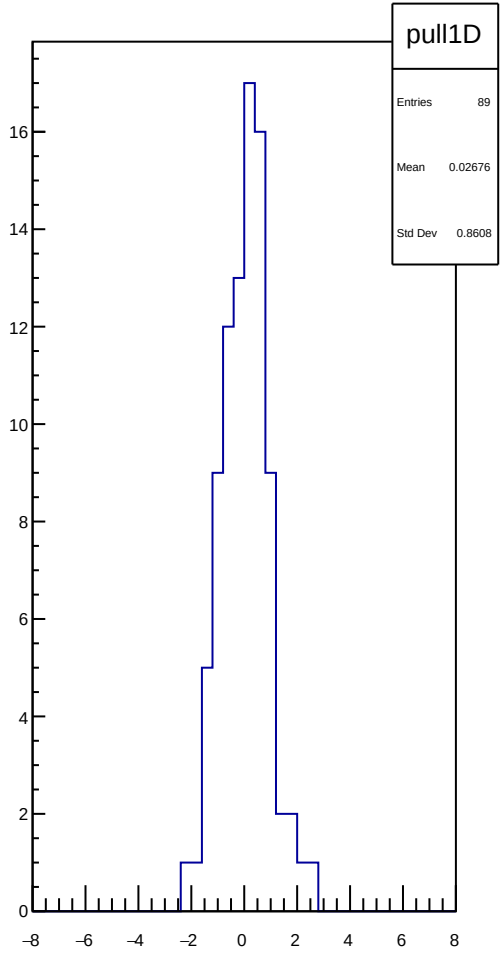

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.265e+06 / 88
p0 4.222e−11 ± 5.823e−14
1
0.8
0.6
0.4
0.2
0

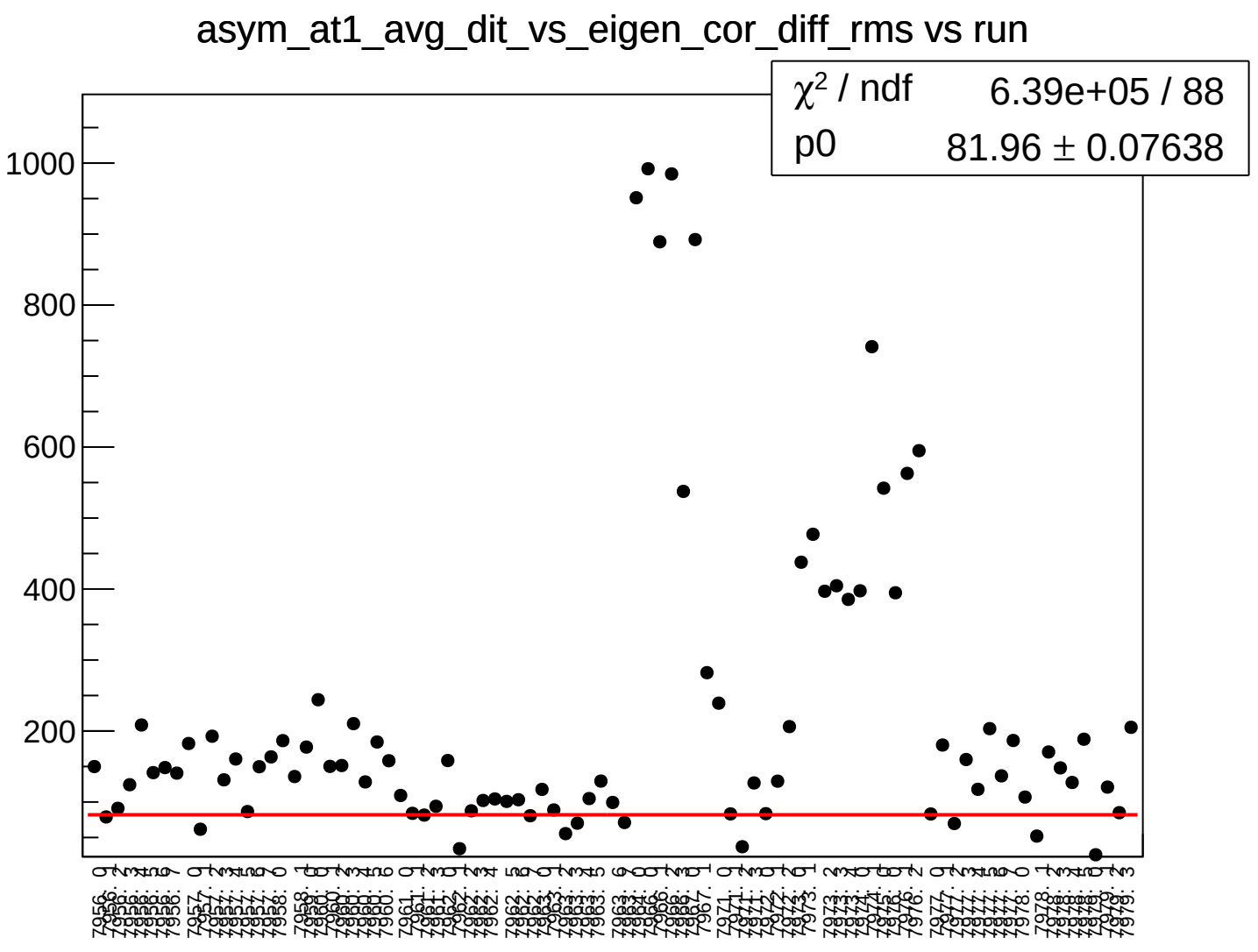

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.01 / 88
p0 −0.1703 ± 0.108
30
20
10
0
−10
pull
Entries 89
Mean −56.75
Std Dev 0
2
1
0
−1
−2

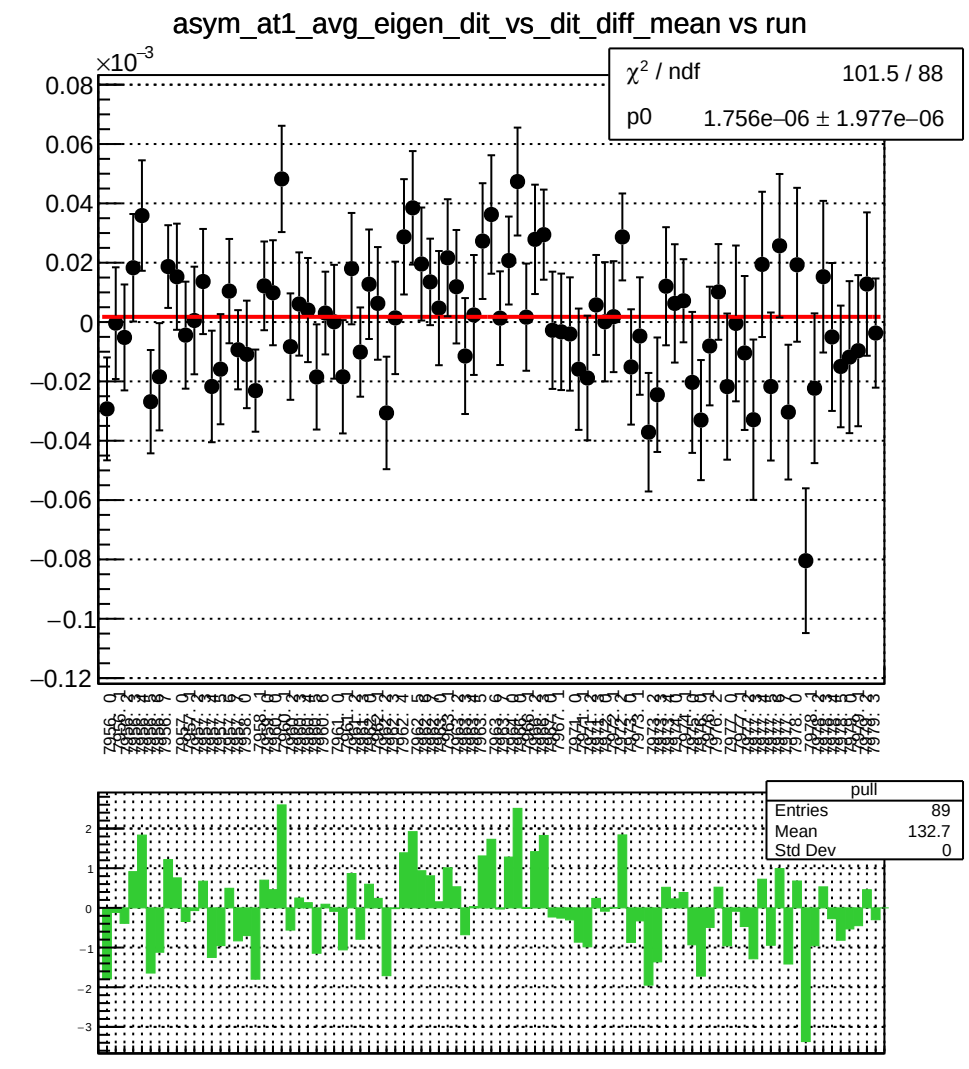

pull1D
Entries 89
Mean 0.02676
Std Dev 0.8608
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

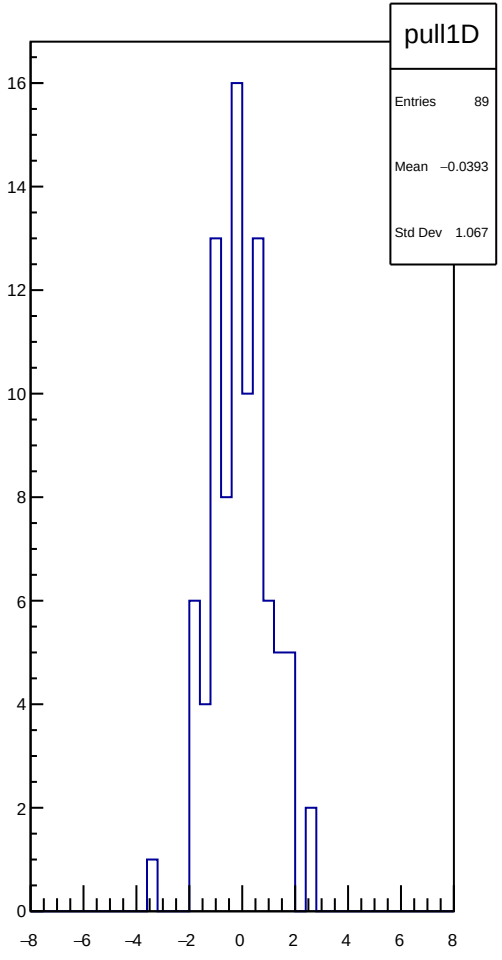

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.39e+05 / 88
p0 81.96 ± 0.07638
1000
800
600
400
200

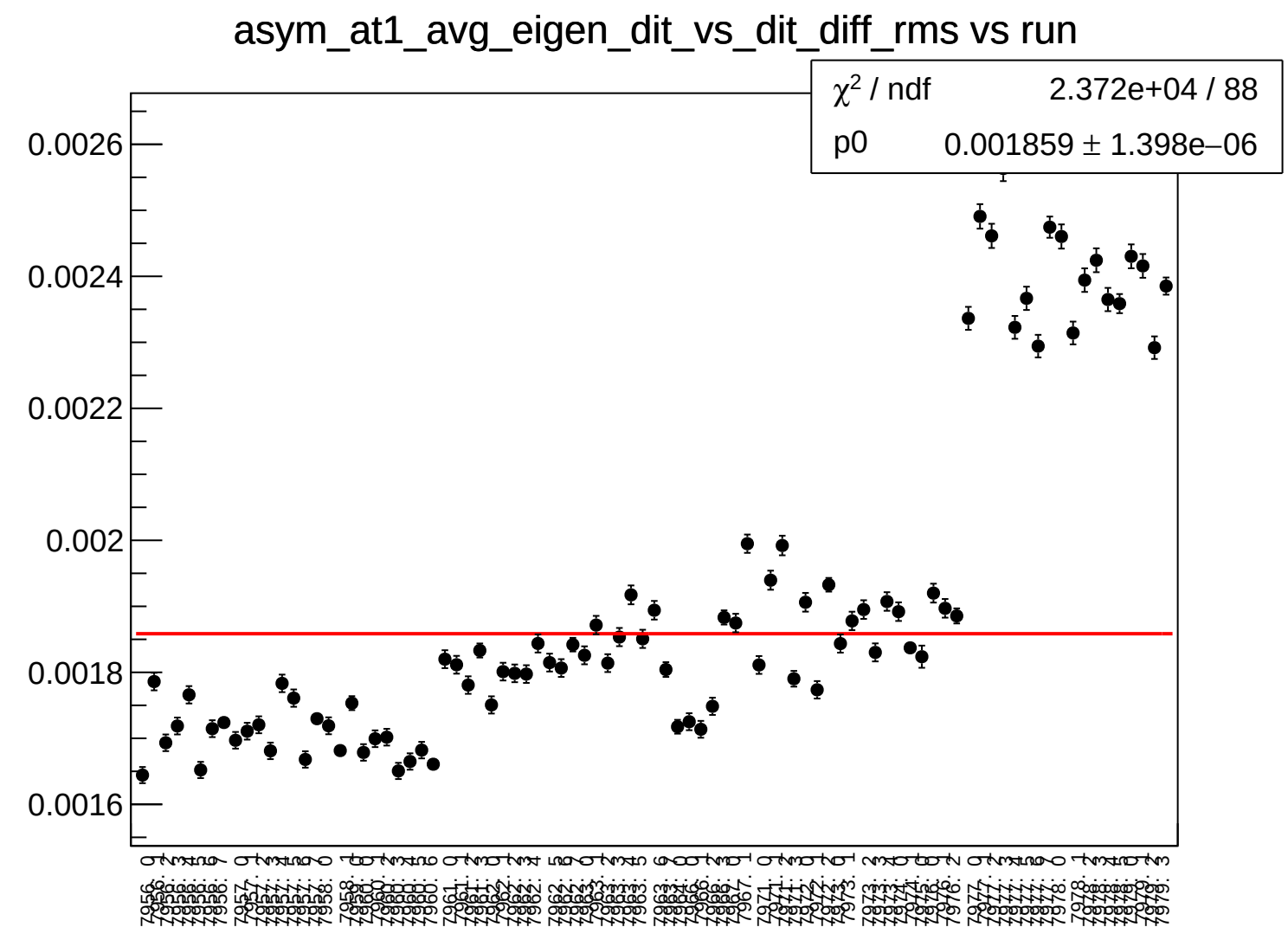

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.01 / 88
p0 −0.1703 ± 0.108
30
20
10
0
−10
pull
Entries 89
Mean −56.75
Std Dev 0
2
1
0
−1
−2

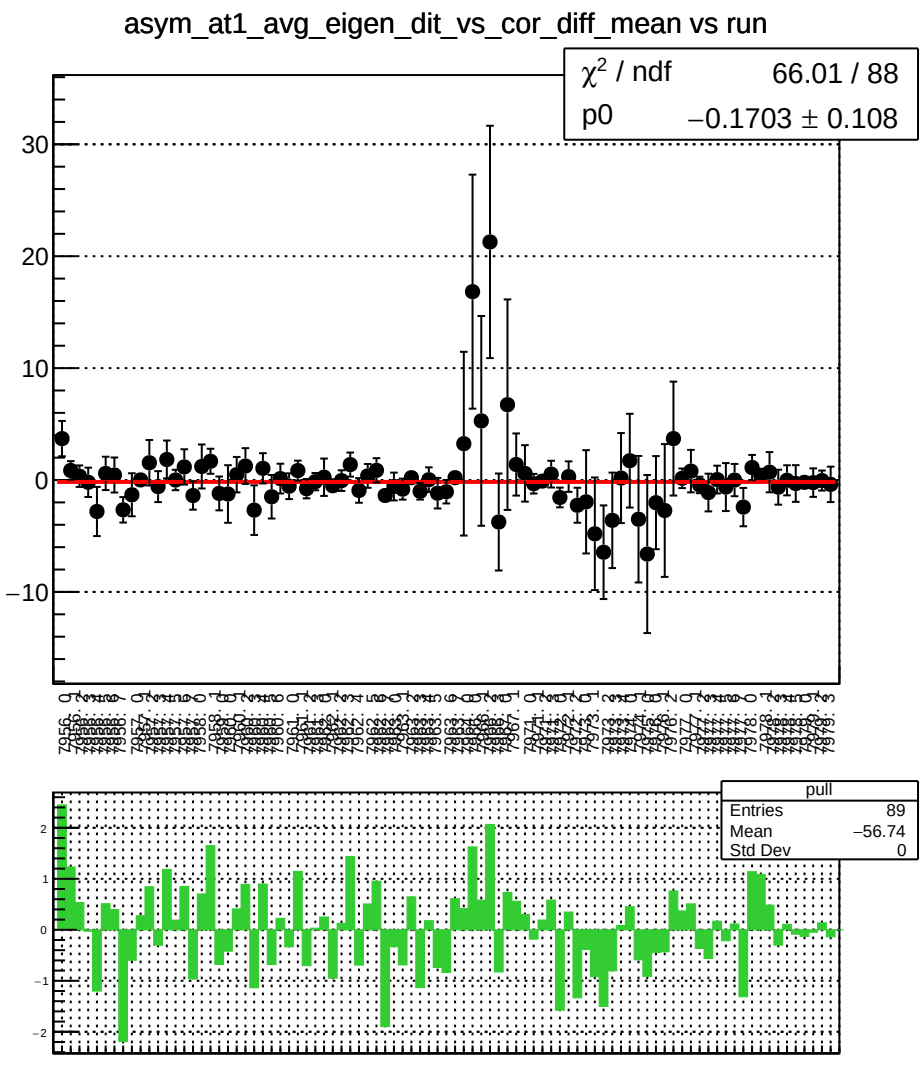

pull1D
Entries 89
Mean 0.02676
Std Dev 0.8608
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

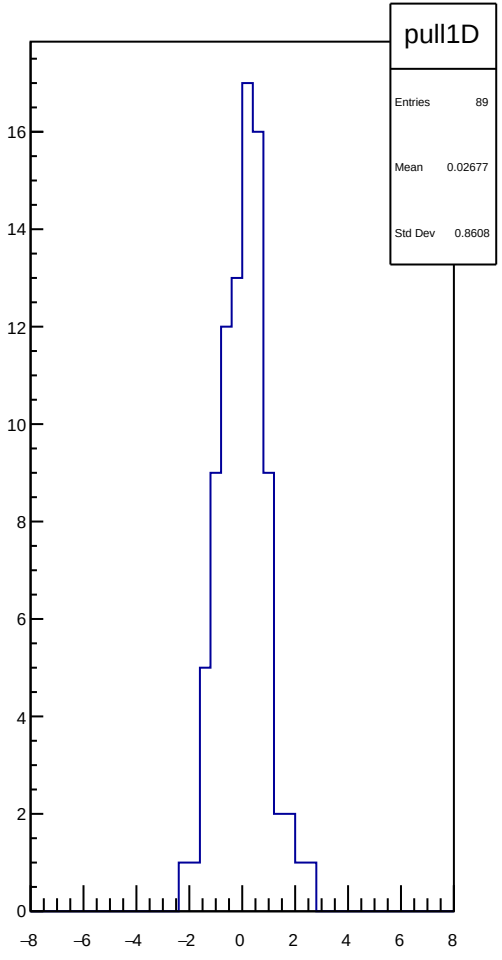

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.39e+05 / 88
p0 81.96 ± 0.07638
1000
800
600
400
200

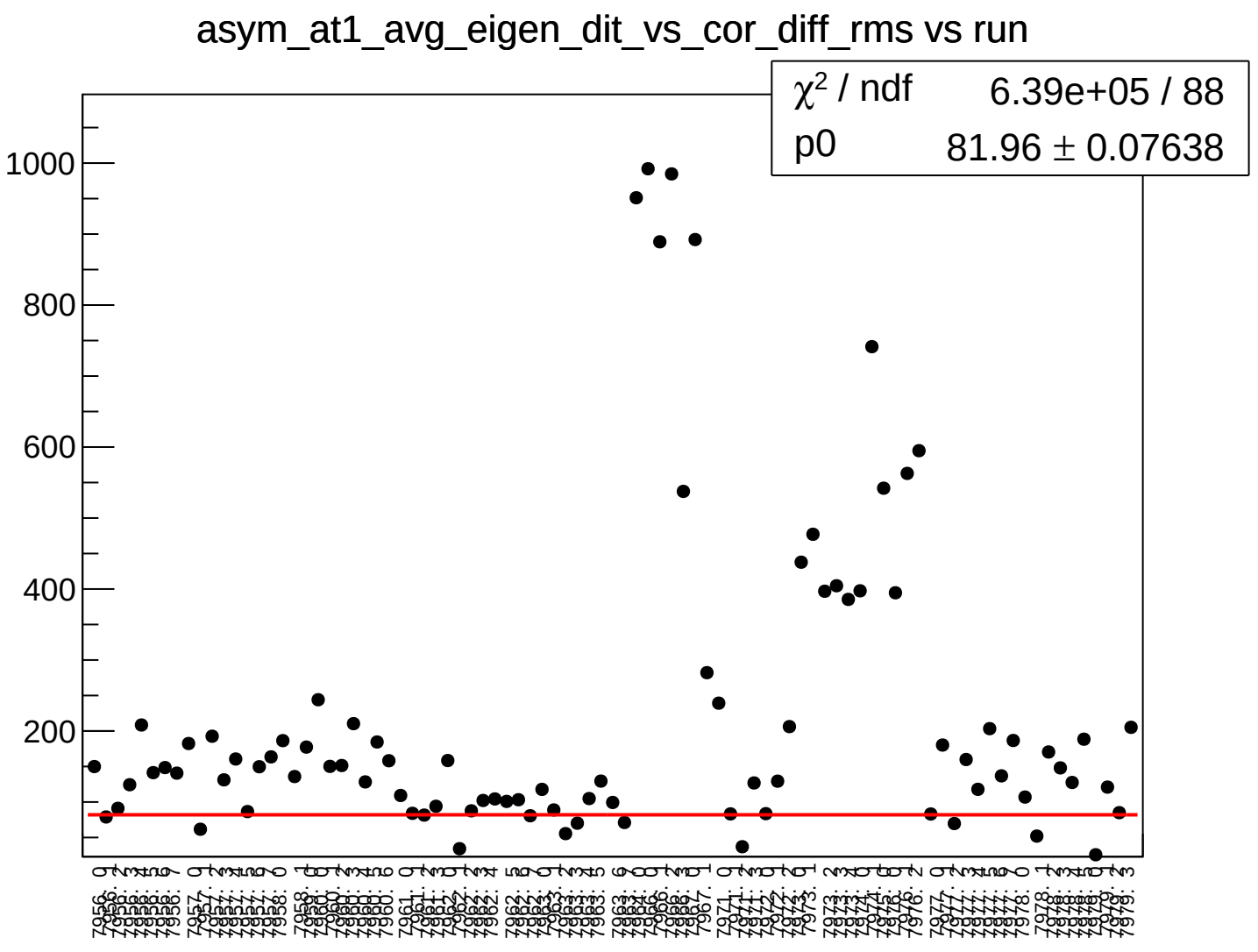

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.5 / 88
p0 1.756e−06 ± 1.977e−06
pull
Entries 89
Mean 132.7
Std Dev 0

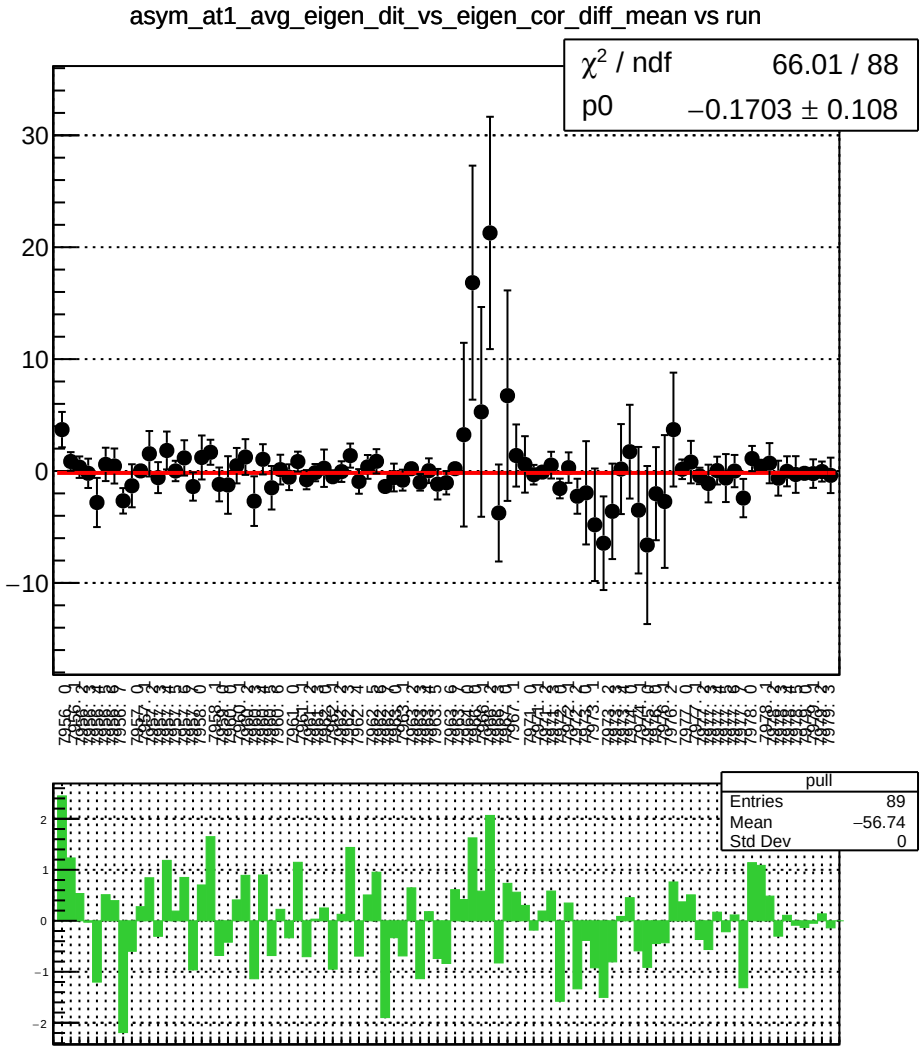

pull1D
Entries 89
Mean −0.0393
Std Dev 1.067

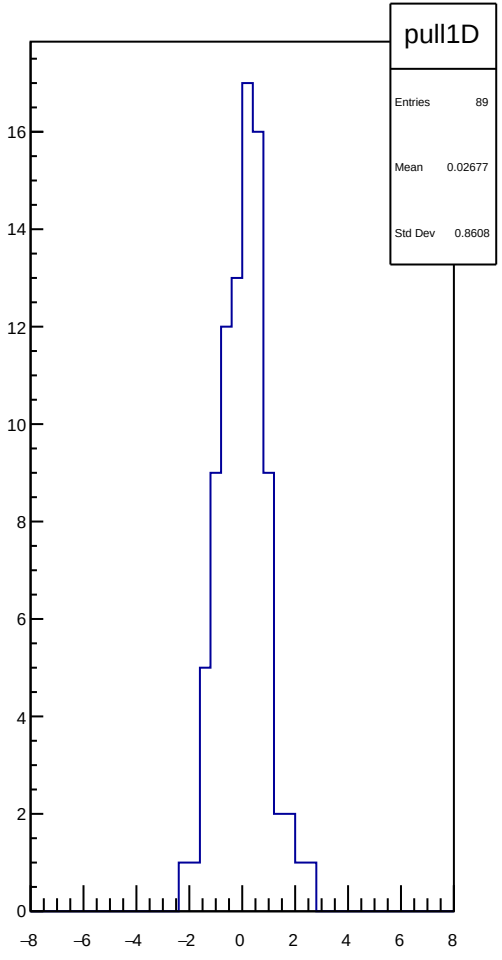

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.372e+04 / 88
p0 0.001859 ± 1.398e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

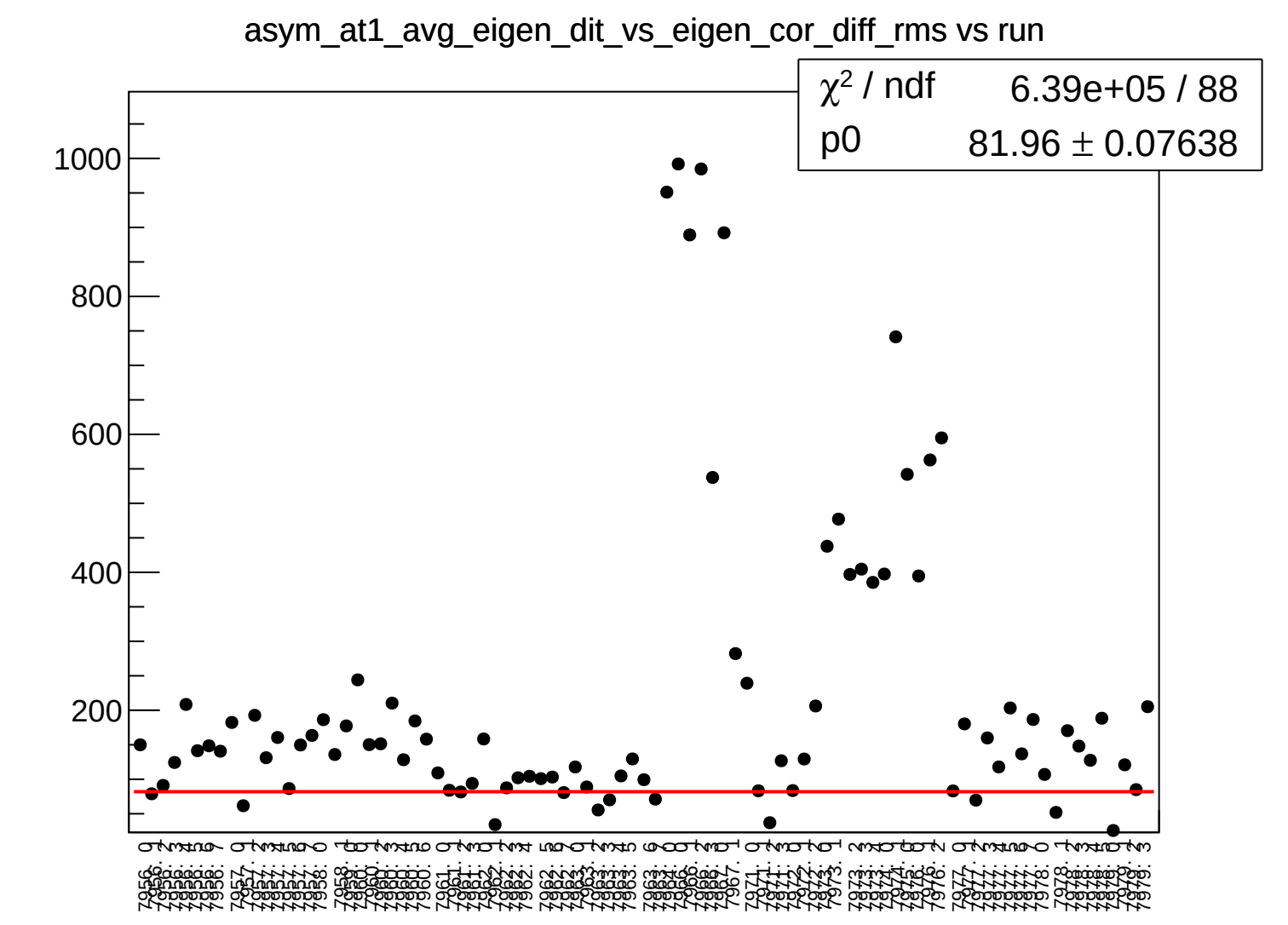

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.01 / 88
p0 −0.1703 ± 0.108
30
20
10
0
−10
pull
Entries 89
Mean −56.74
Std Dev 0
2
1
0
−1
−2

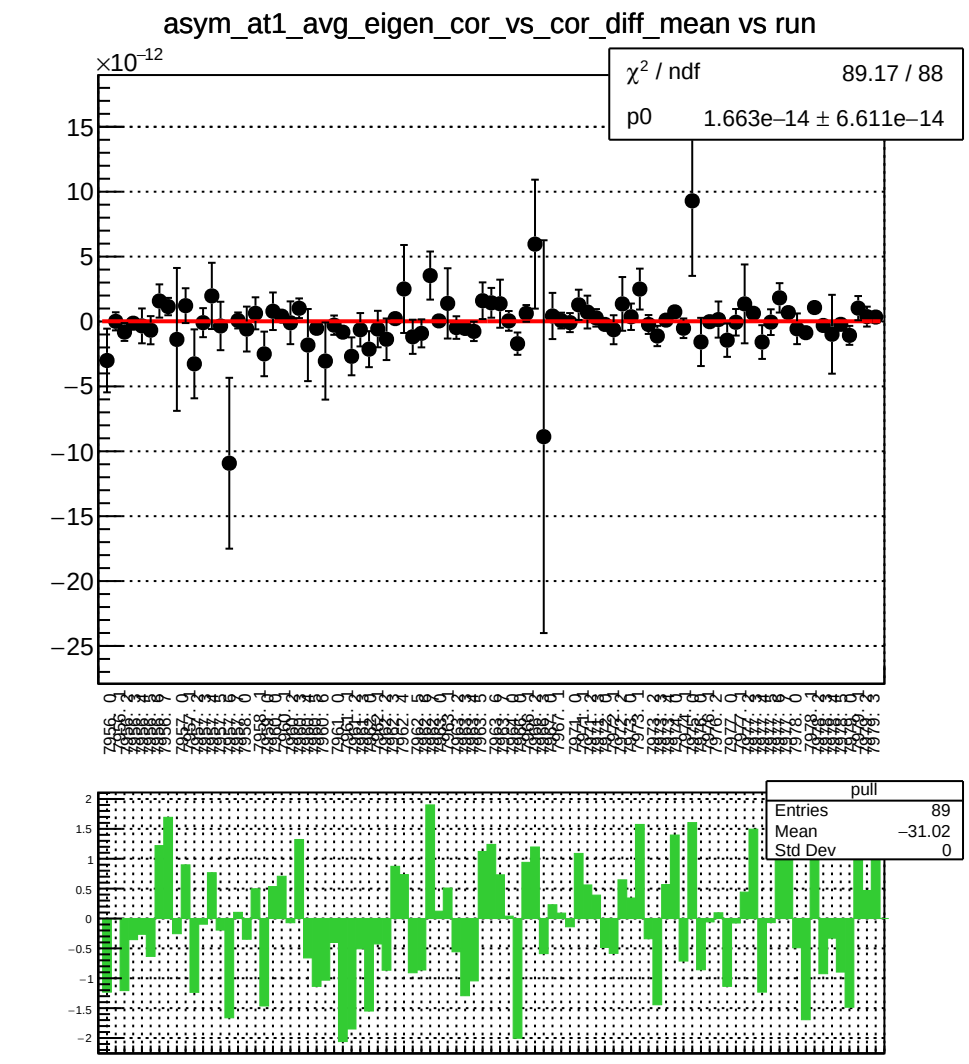

pull1D
Entries 89
Mean 0.02677
Std Dev 0.8608
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

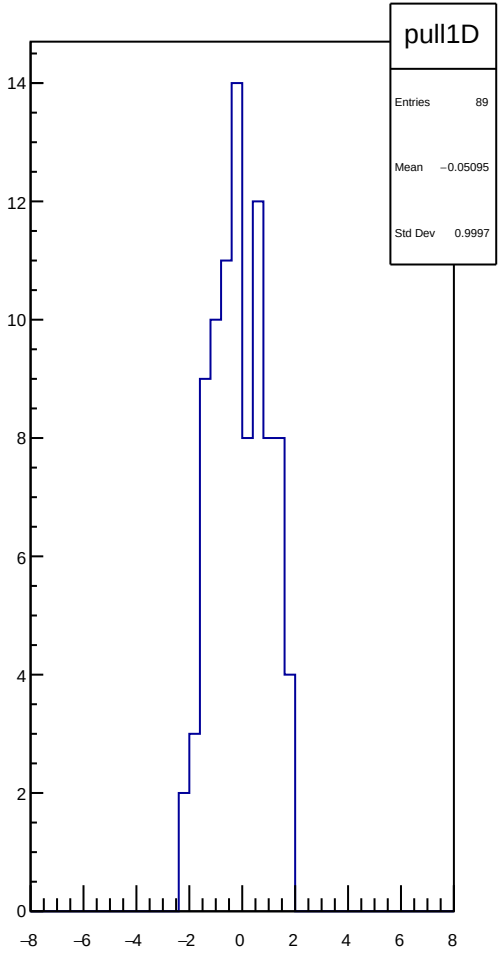

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.39e+05 / 88
p0 81.96 ± 0.07638
1000
800
600
400
200

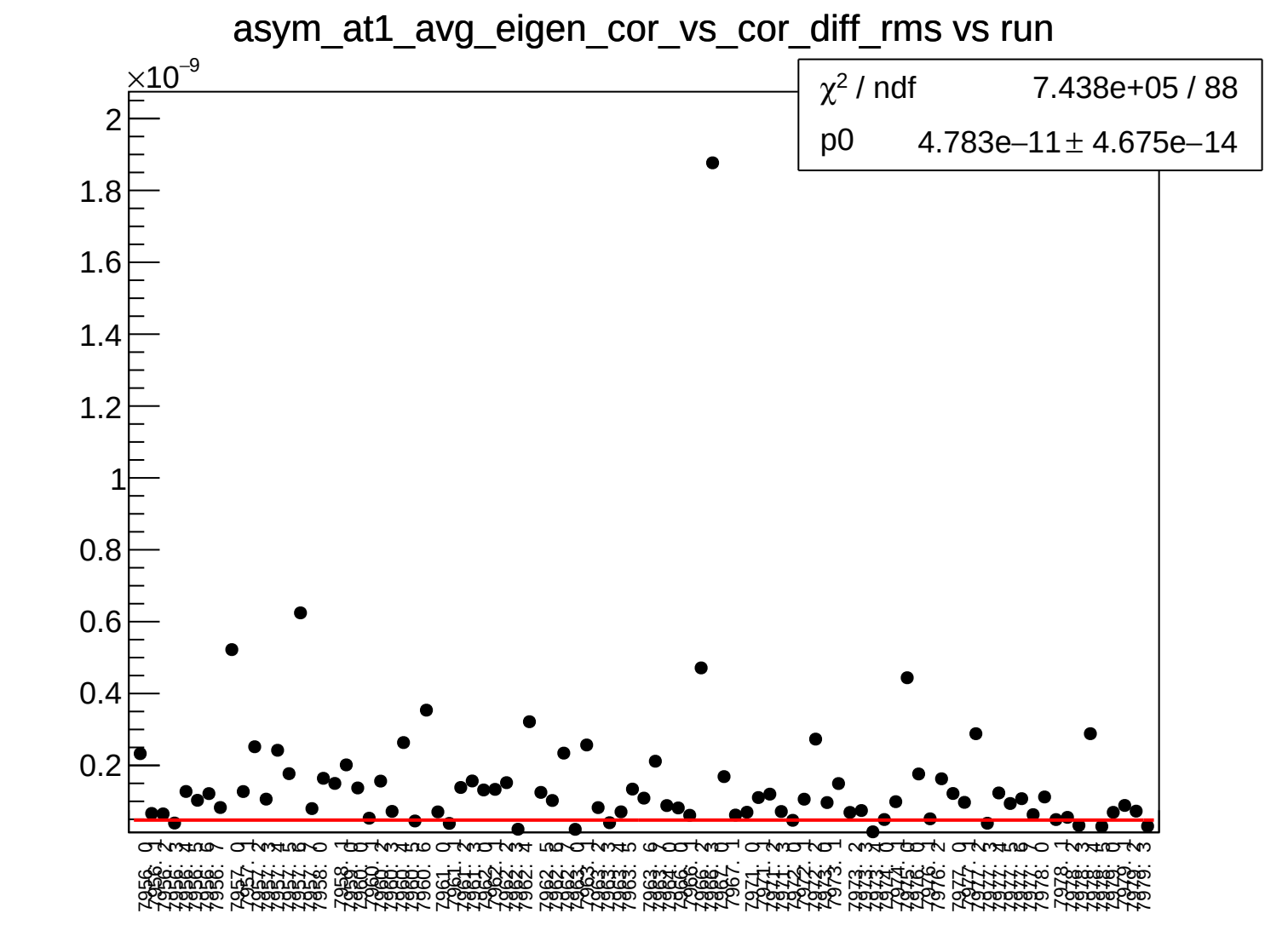

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.01 / 88
p0 −0.1703 ± 0.108
30
20
10
0
−10
pull
Entries 89
Mean −56.74
Std Dev 0
2
1
0
−1
−2

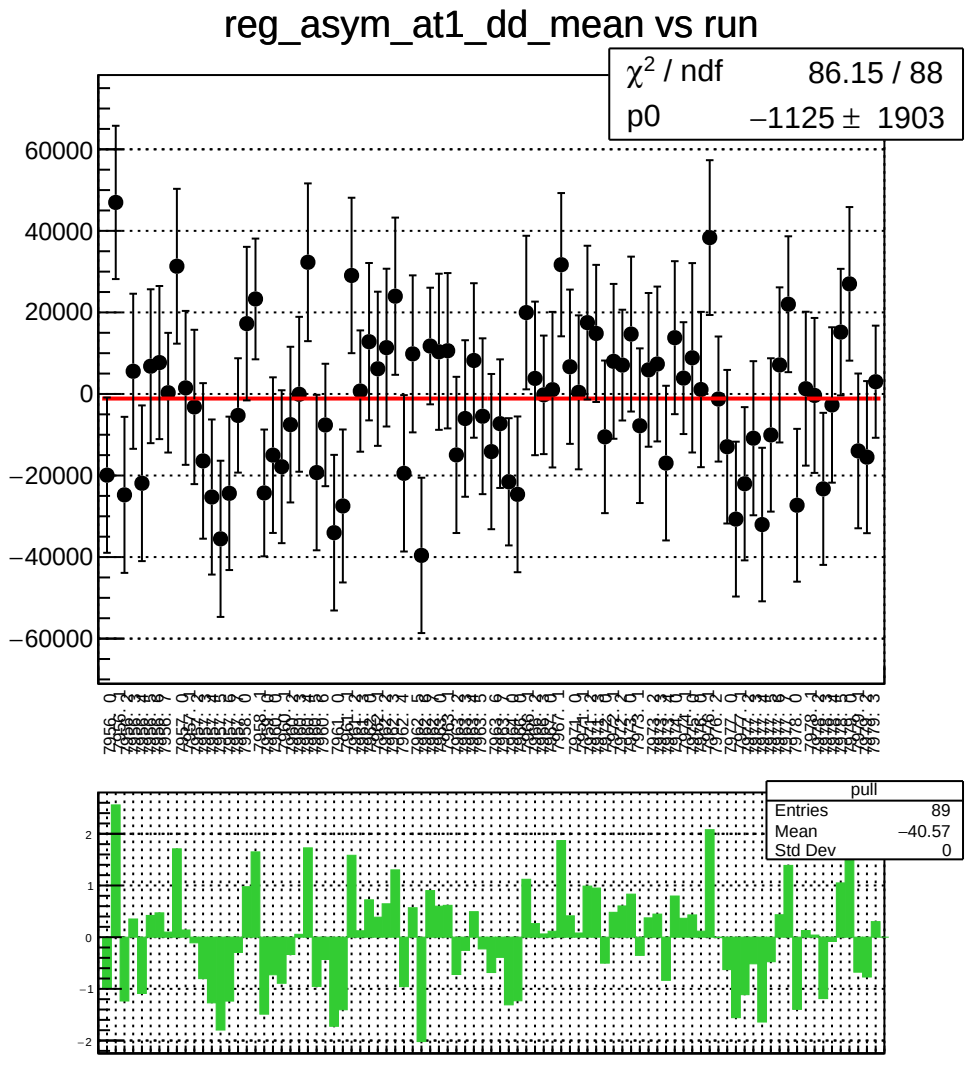

pull1D
Entries 89
Mean 0.02677
Std Dev 0.8608
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

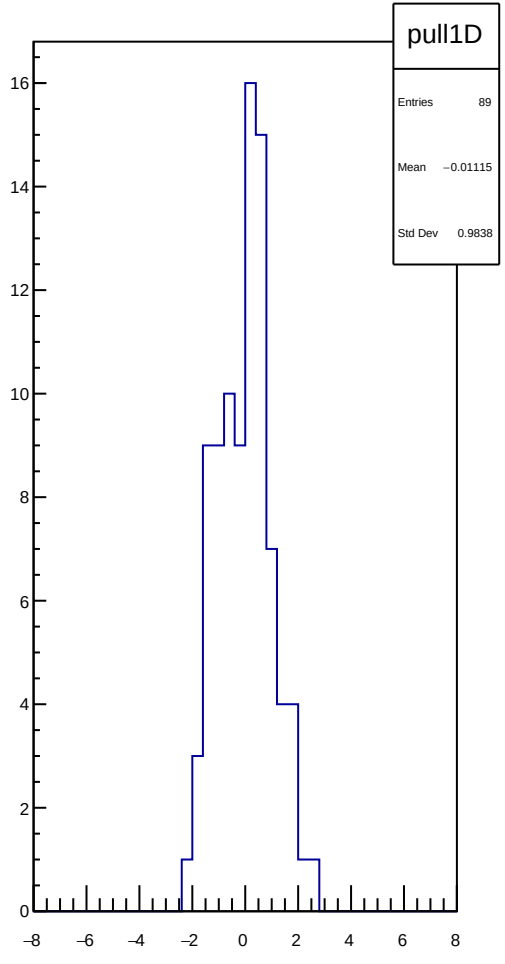

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.39e+05 / 88
p0 81.96 ± 0.07638
1000
800
600
400
200

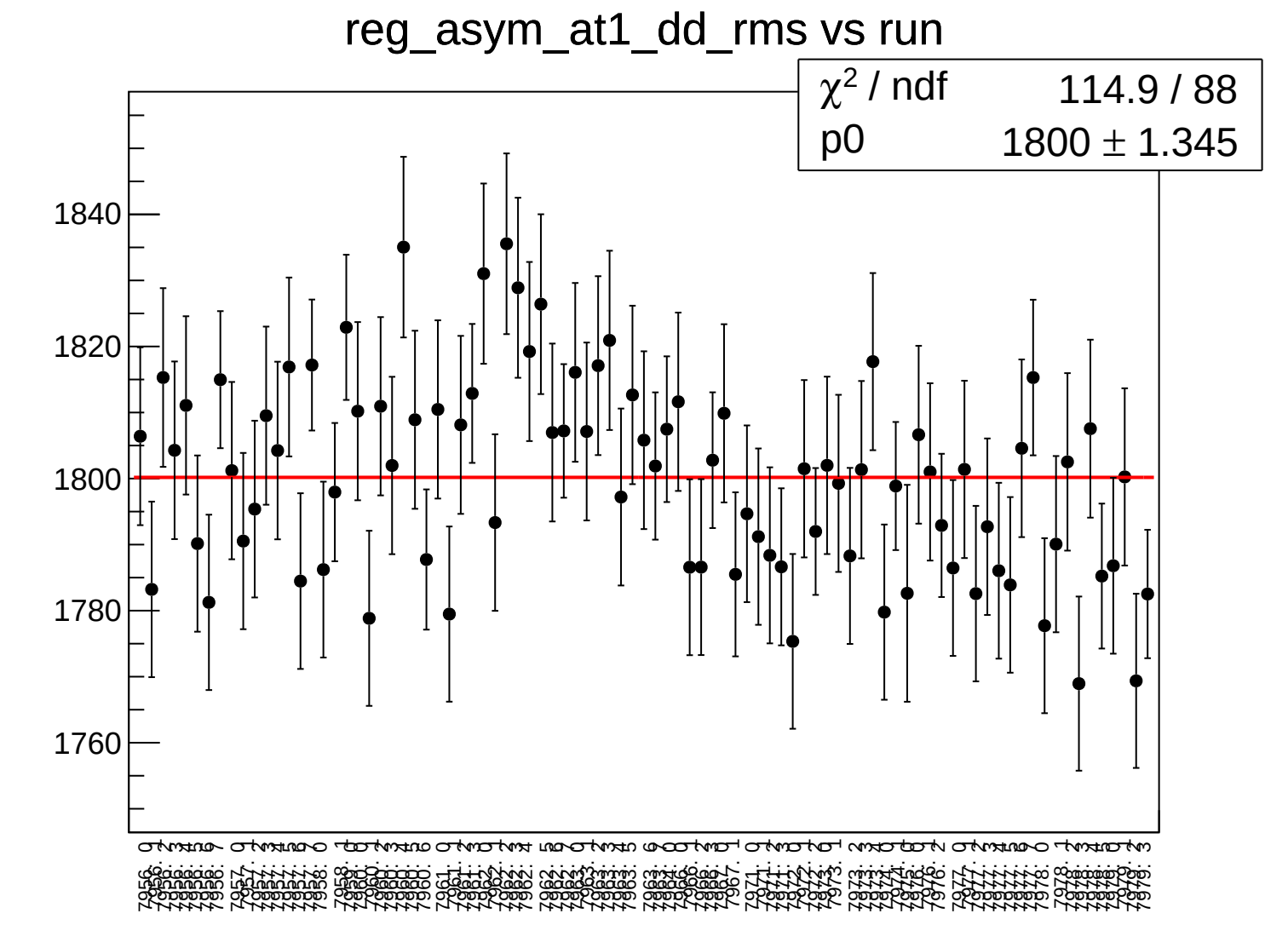

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.17 / 88
p0 1.663e−14 ± 6.611e−14
pull
Entries 89
Mean −31.02
Std Dev 0

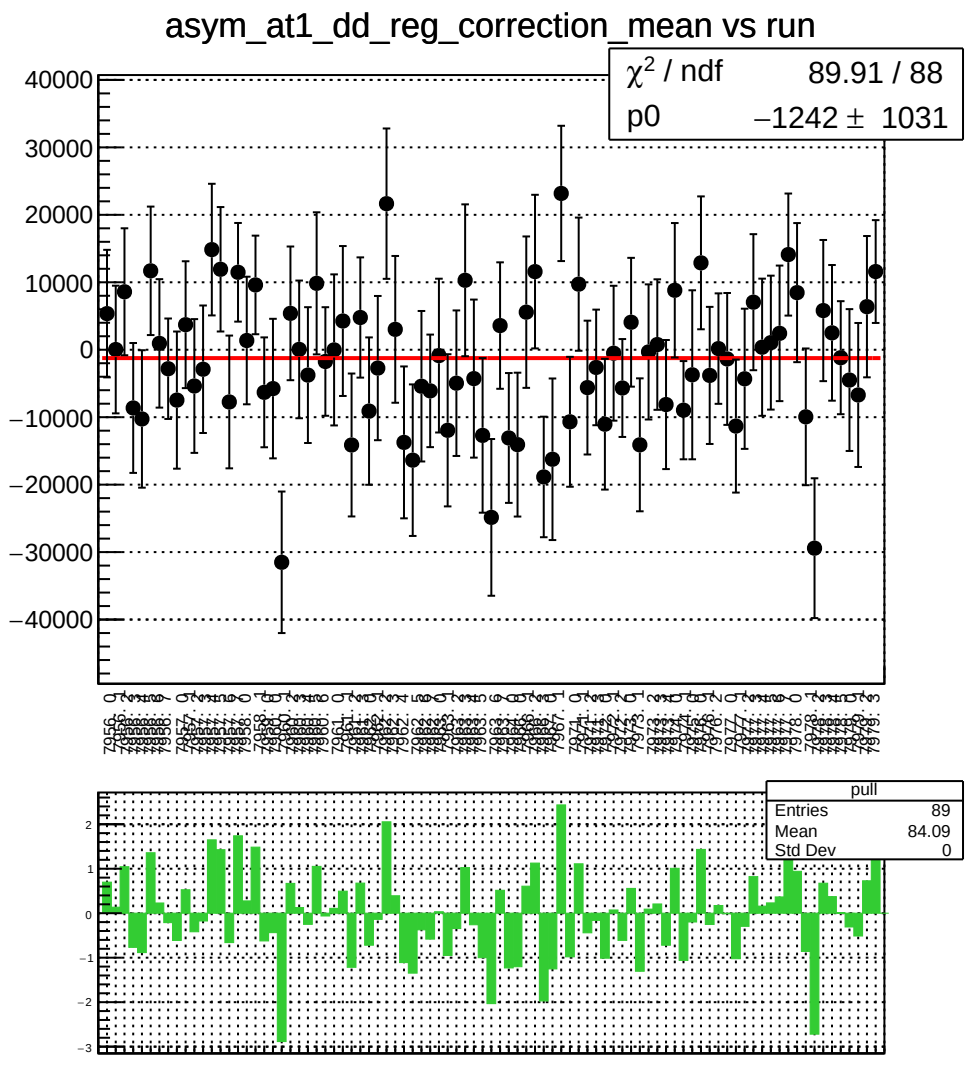

pull1D
Entries 89
Mean −0.05095
Std Dev 0.9997

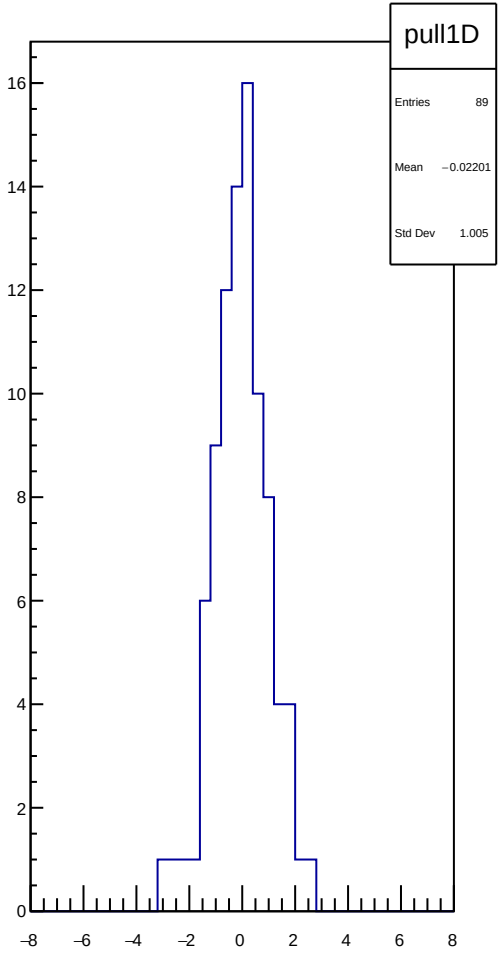

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.438e+05 / 88
p0 4.783e−11 ± 4.675e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

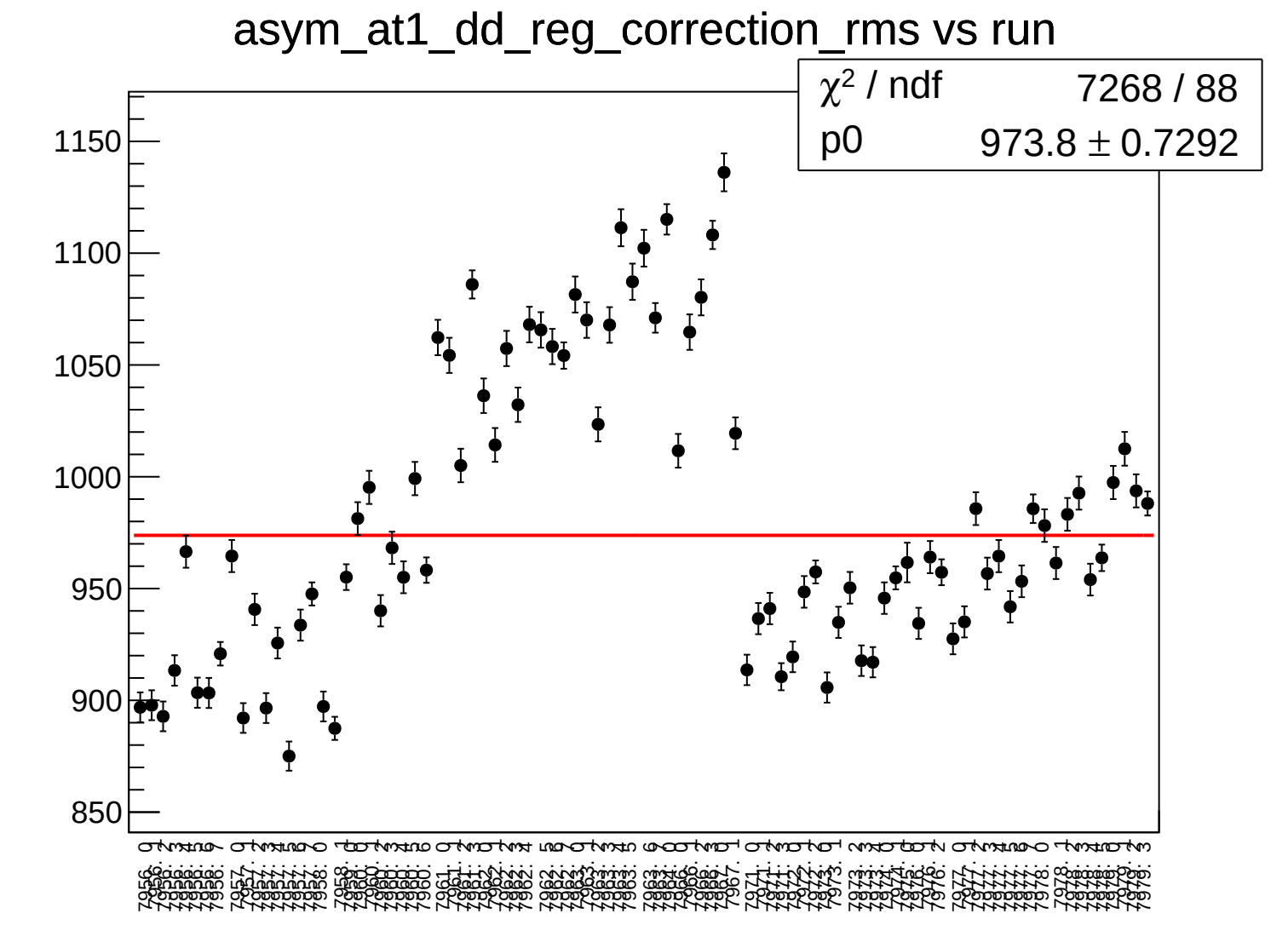

reg_asym_at1_dd_mean vs run
χ² / ndf 86.15 / 88
p0 −1125 ± 1903
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −40.57
Std Dev 0
2
1
0
−1
−2

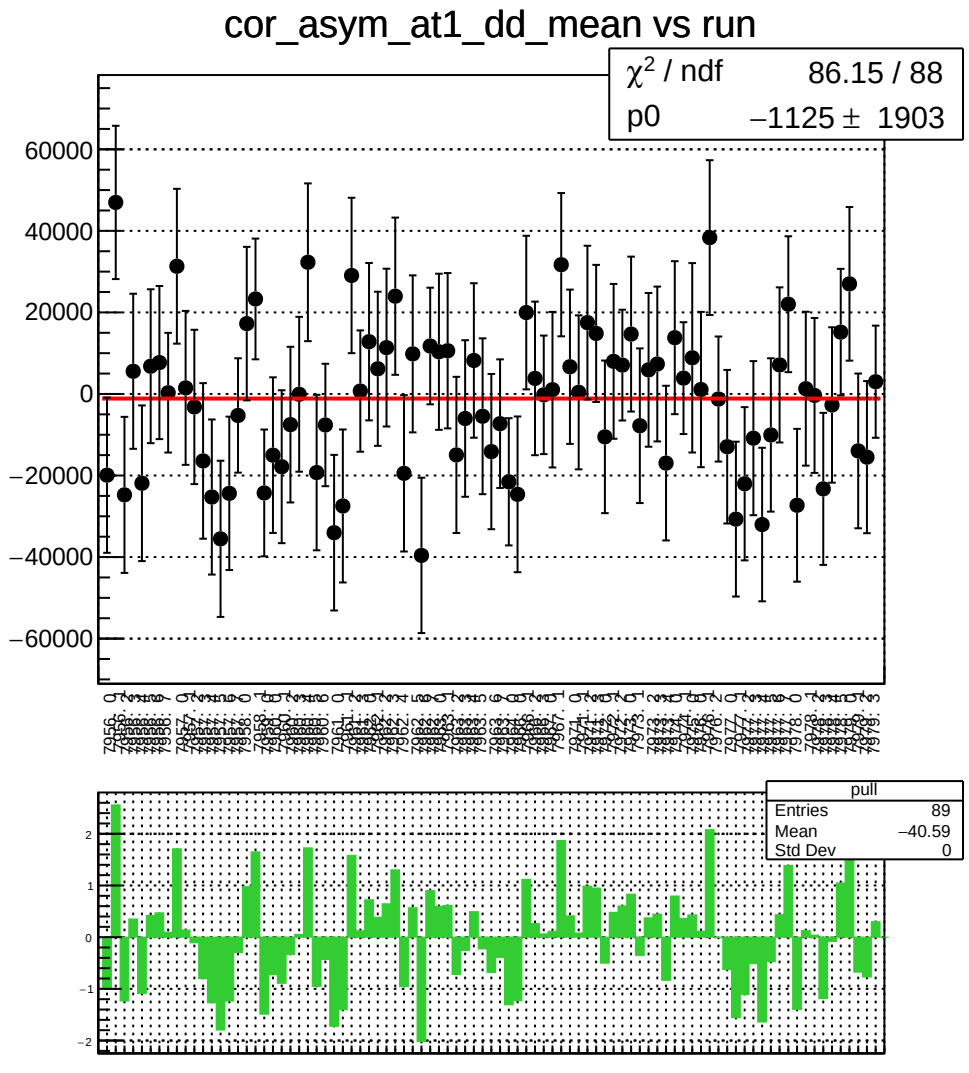

pull1D
Entries 89
Mean −0.01115
Std Dev 0.9838
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

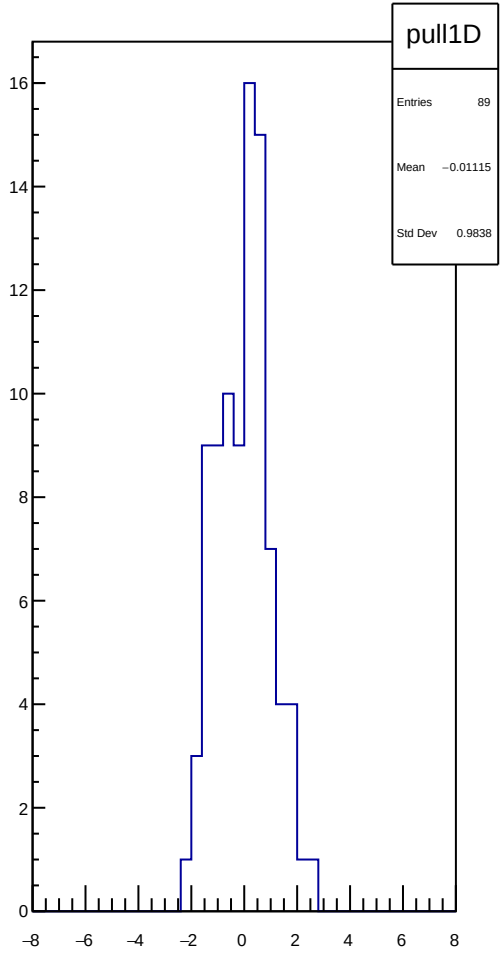

reg_asym_at1_dd_rms vs run
$\chi^2$ / ndf 114.9 / 88
p0 1800 ± 1.345
1840
1820
1800
1780
1760

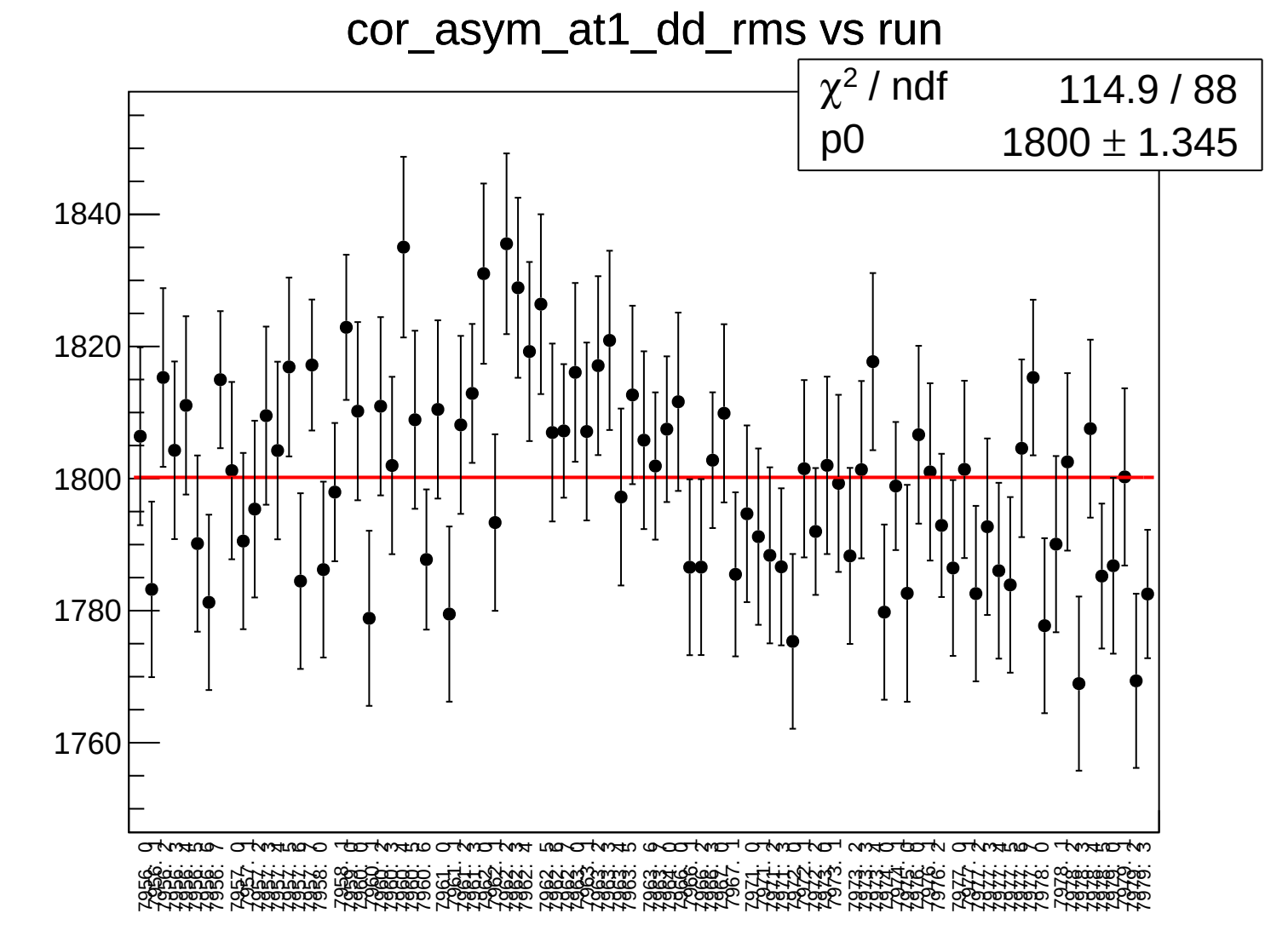

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 89.91 / 88
p0 −1242 ± 1031
pull
Entries 89
Mean 84.09
Std Dev 0

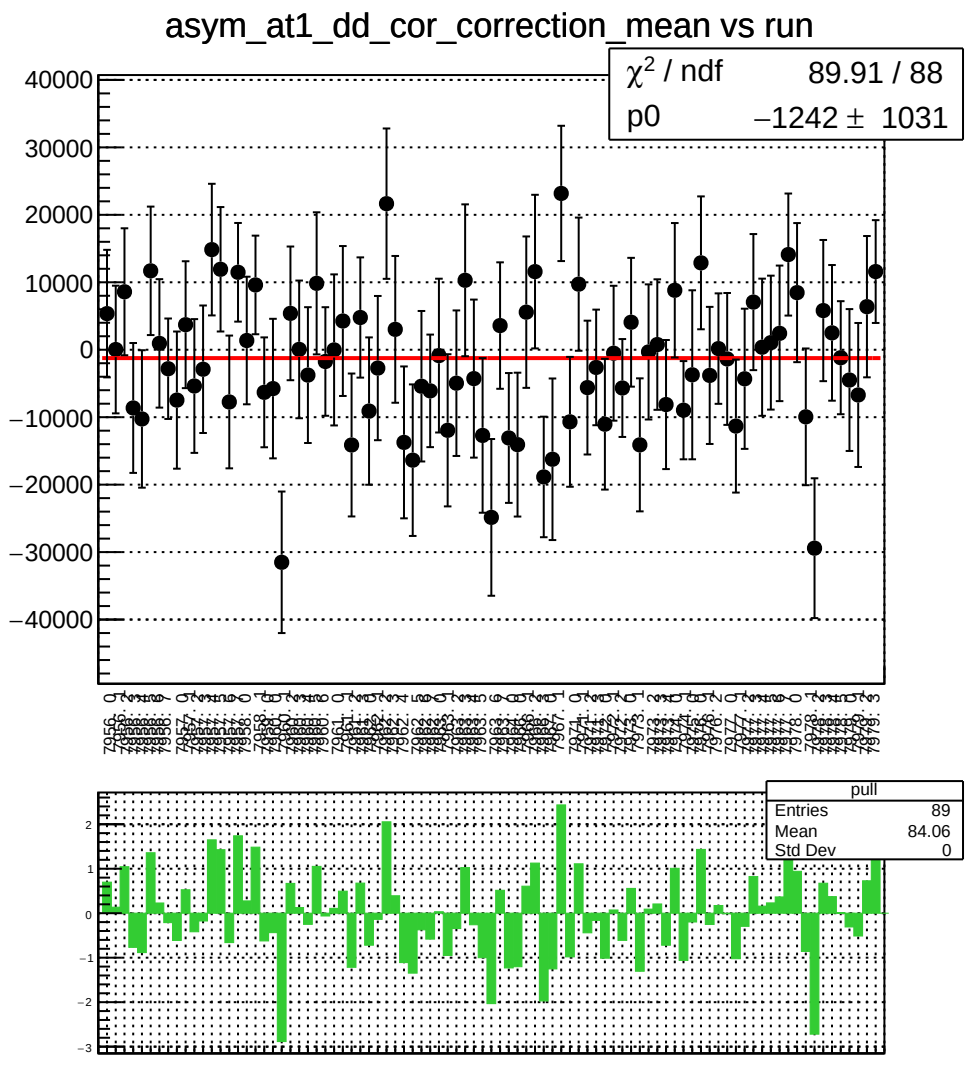

pull1D
Entries 89
Mean −0.02201
Std Dev 1.005

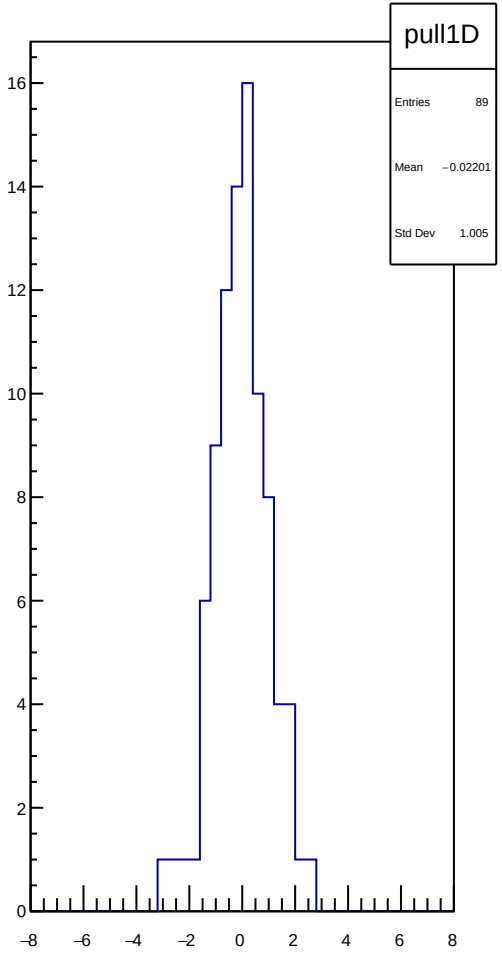

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 7268 / 88
p0 973.8 ± 0.7292
1150
1100
1050
1000
950
900
850

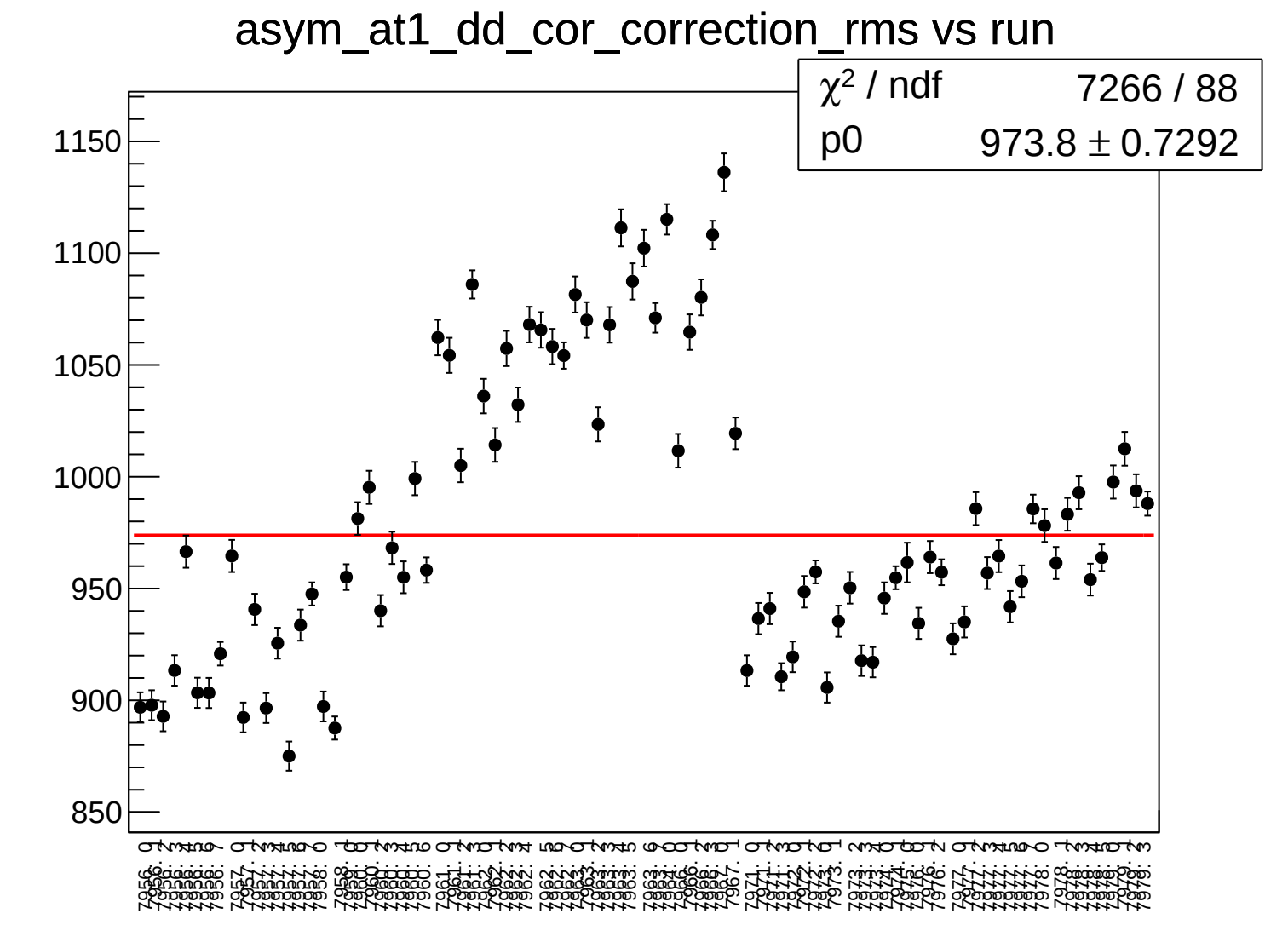

cor_asym_at1_dd_mean vs run
χ² / ndf 86.15 / 88
p0 −1125 ± 1903
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −40.59
Std Dev 0
2
1
0
−1
−2

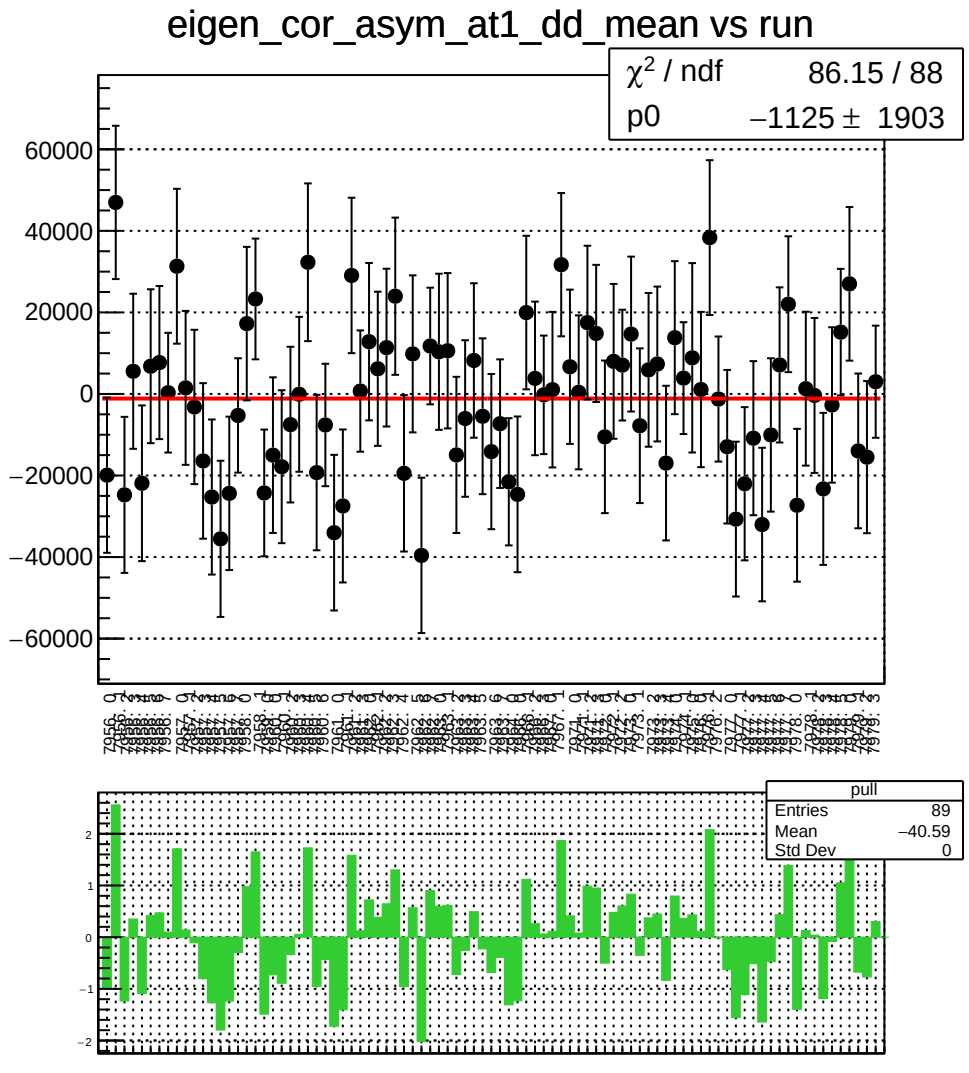

pull1D
Entries 89
Mean −0.01115
Std Dev 0.9838
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

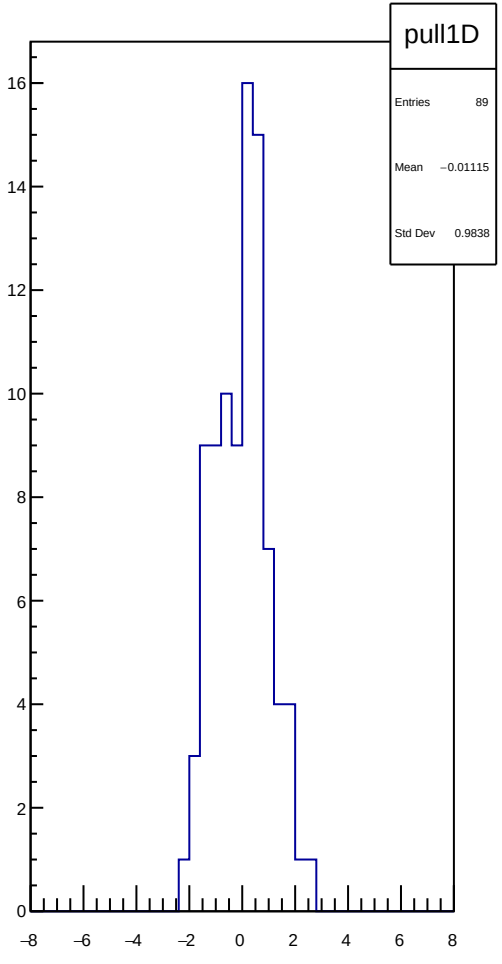

cor_asym_at1_dd_rms vs run
$\chi^2$ / ndf 114.9 / 88
p0 1800 ± 1.345
1840
1820
1800
1780
1760

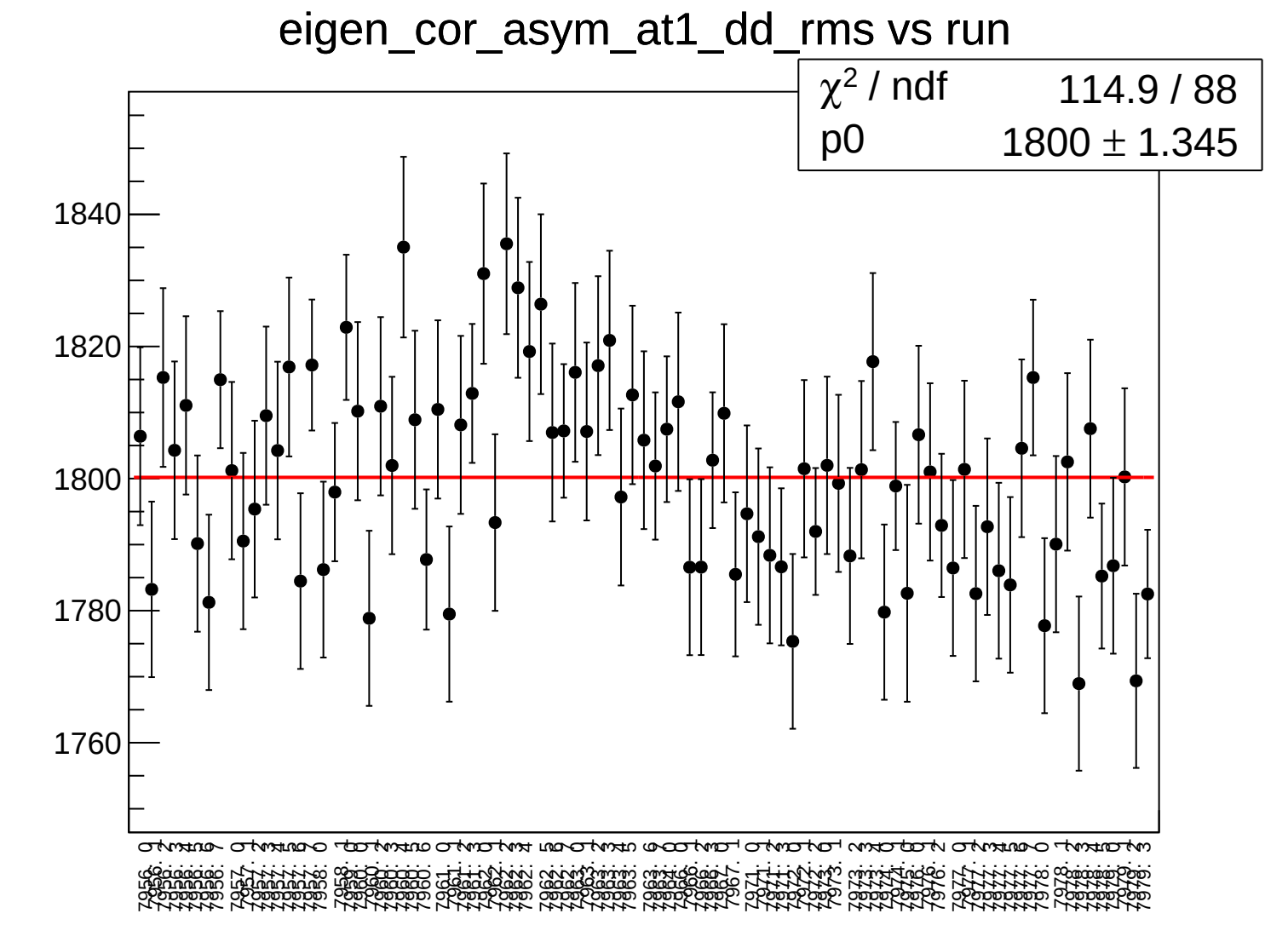

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 89.91 / 88
p0 −1242 ± 1031
pull
Entries 89
Mean 84.06
Std Dev 0

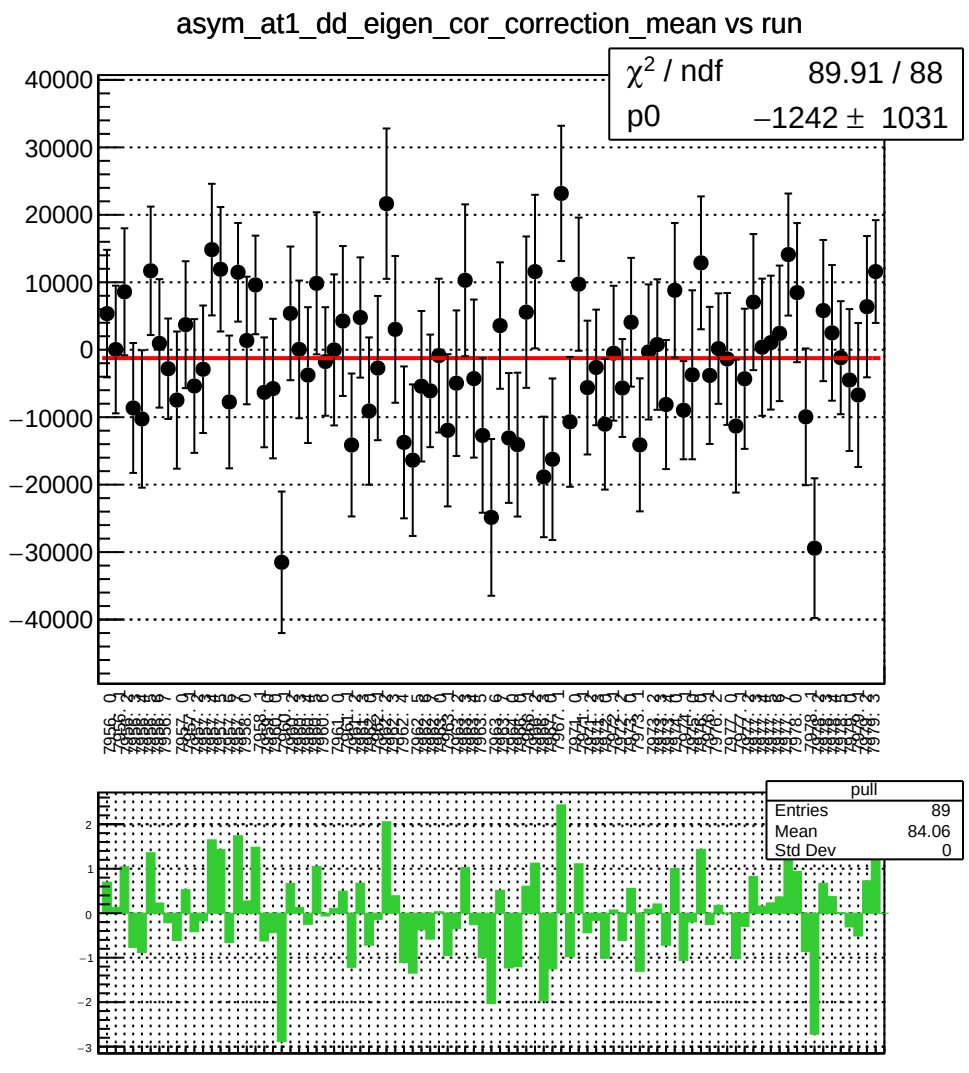

pull1D
Entries 89
Mean −0.02201
Std Dev 1.005

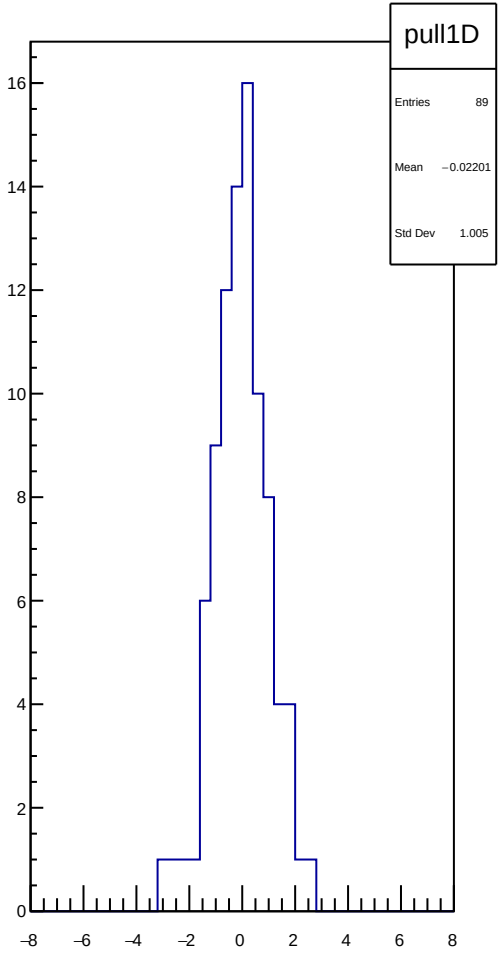

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 7266 / 88
p0 973.8 ± 0.7292
1150
1100
1050
1000
950
900
850

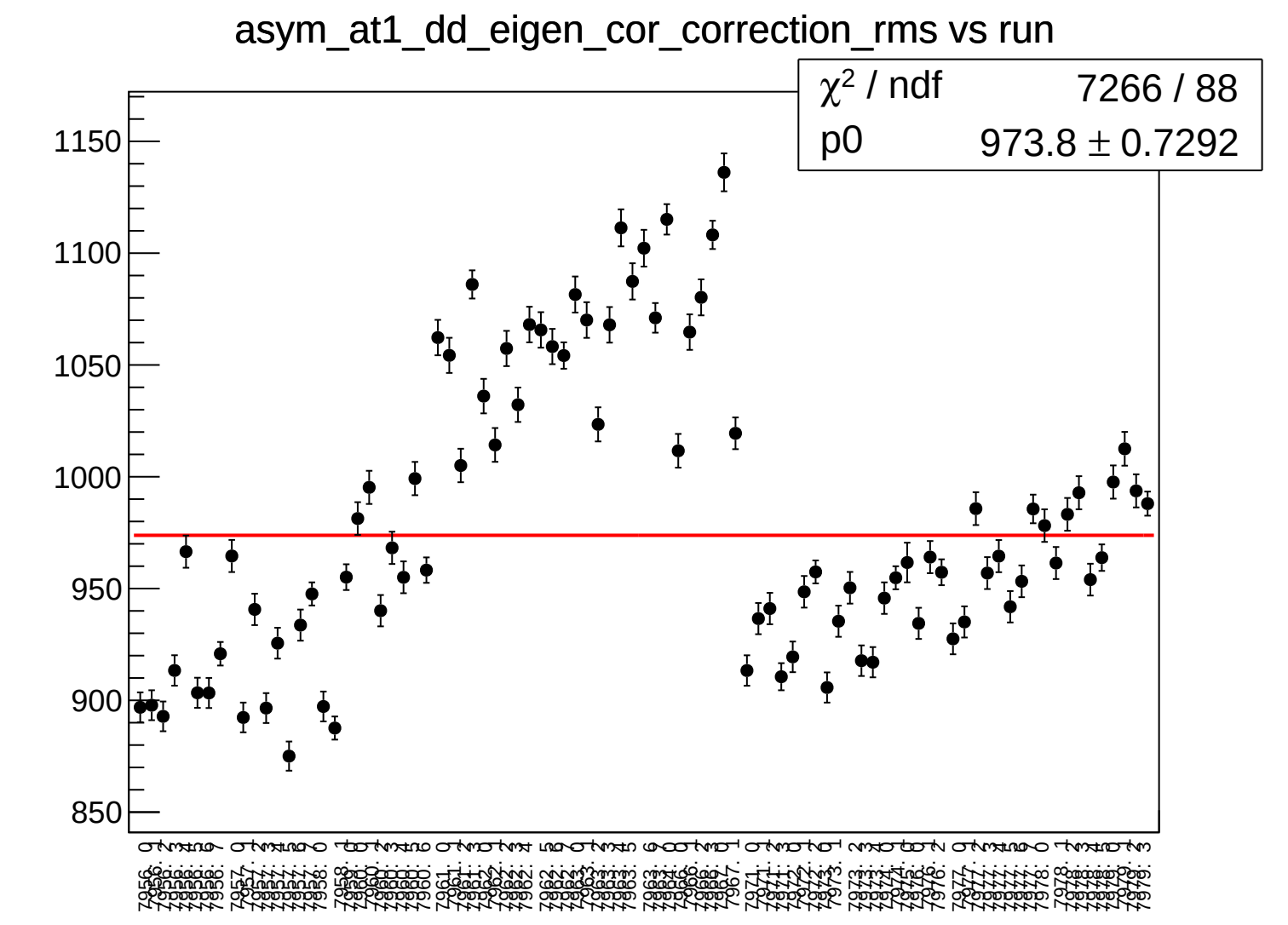

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 86.15 / 88
p0 −1125 ± 1903
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −40.59
Std Dev 0
2
1
0
−1
−2

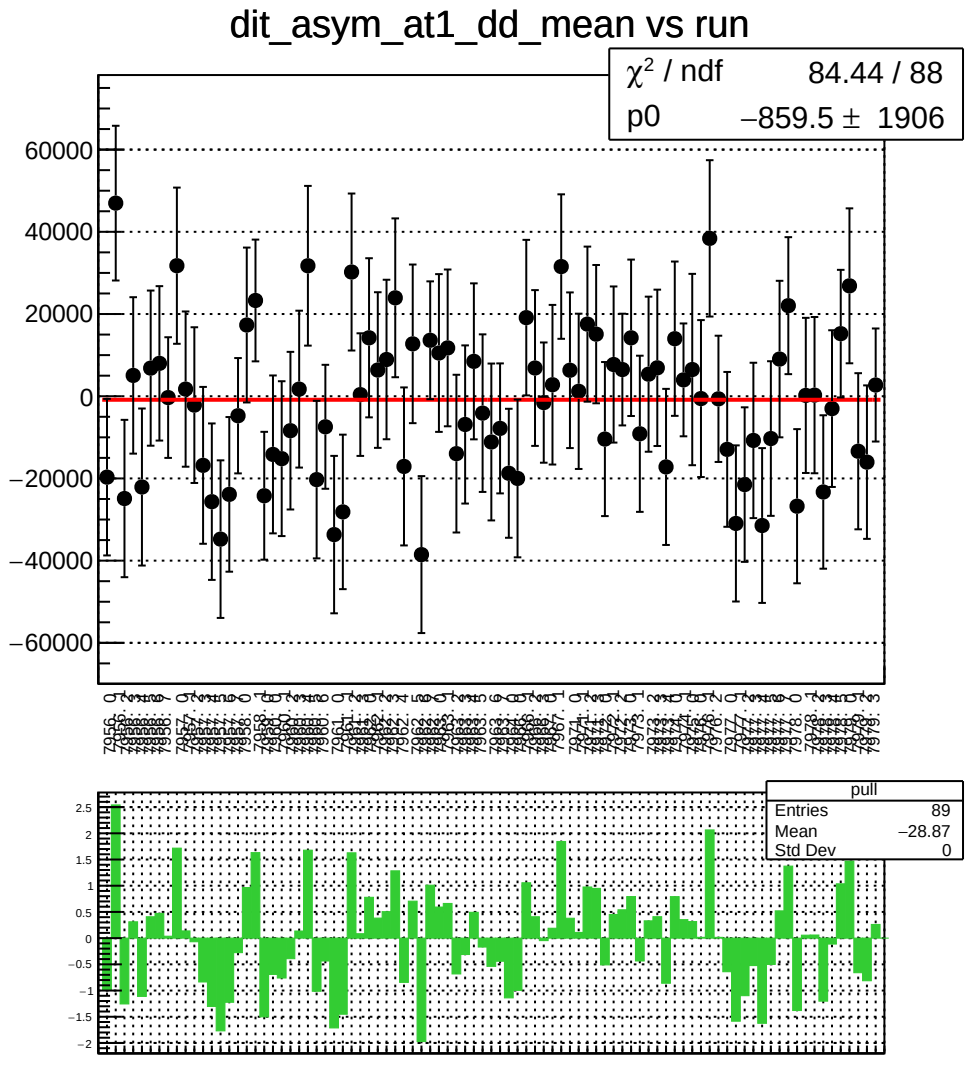

pull1D
Entries 89
Mean −0.01115
Std Dev 0.9838
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

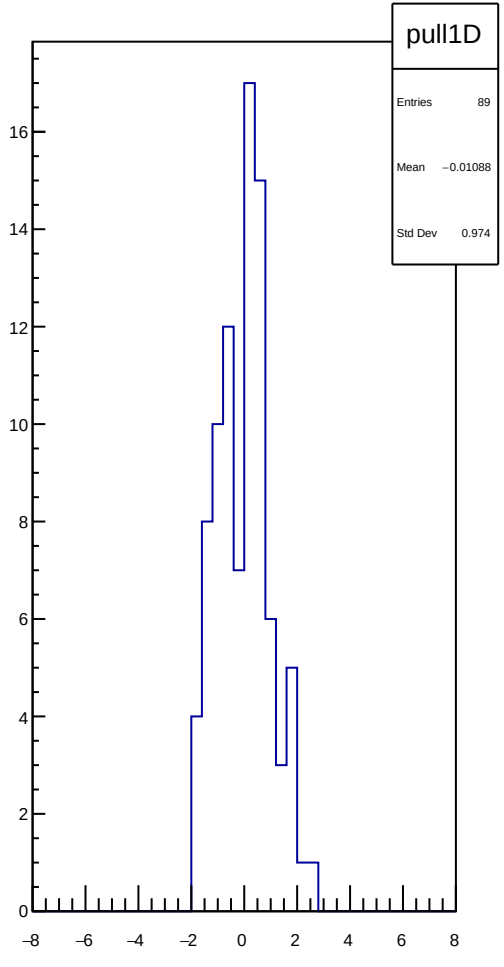

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 114.9 / 88
p0 1800 ± 1.345
1840
1820
1800
1780
1760

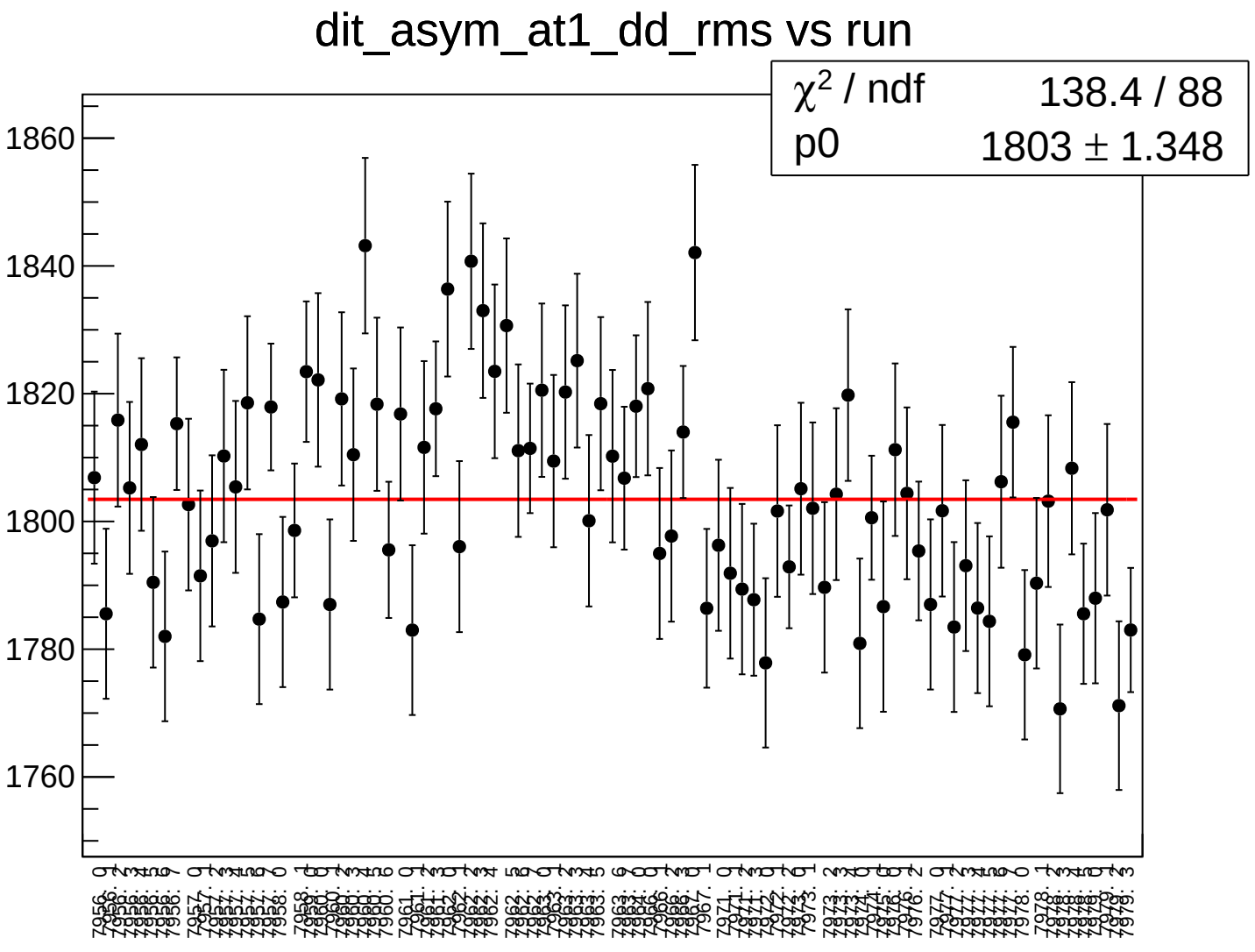

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.91 / 88
p0 −1242 ± 1031
pull
Entries 89
Mean 84.06
Std Dev 0

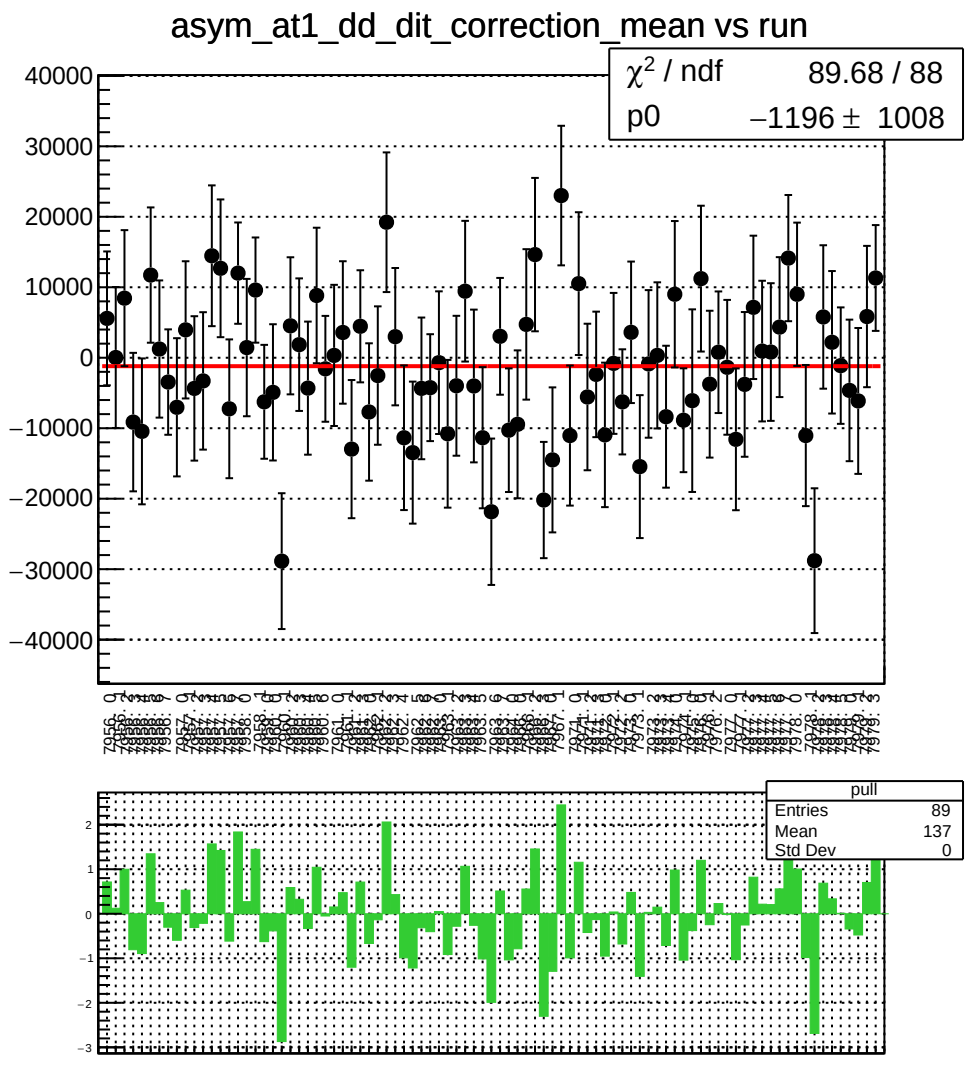

pull1D
Entries 89
Mean −0.02201
Std Dev 1.005

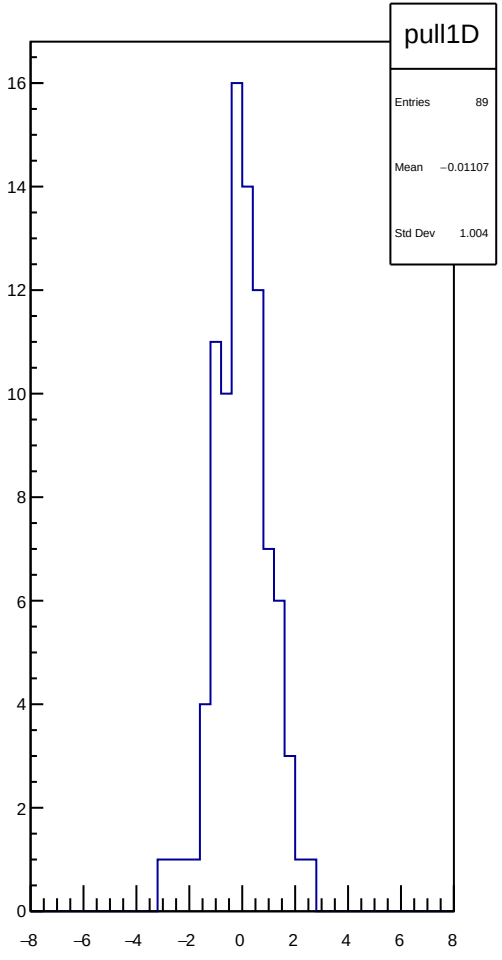

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 7266 / 88
p0 973.8 ± 0.7292
1150
1100
1050
1000
950
900
850

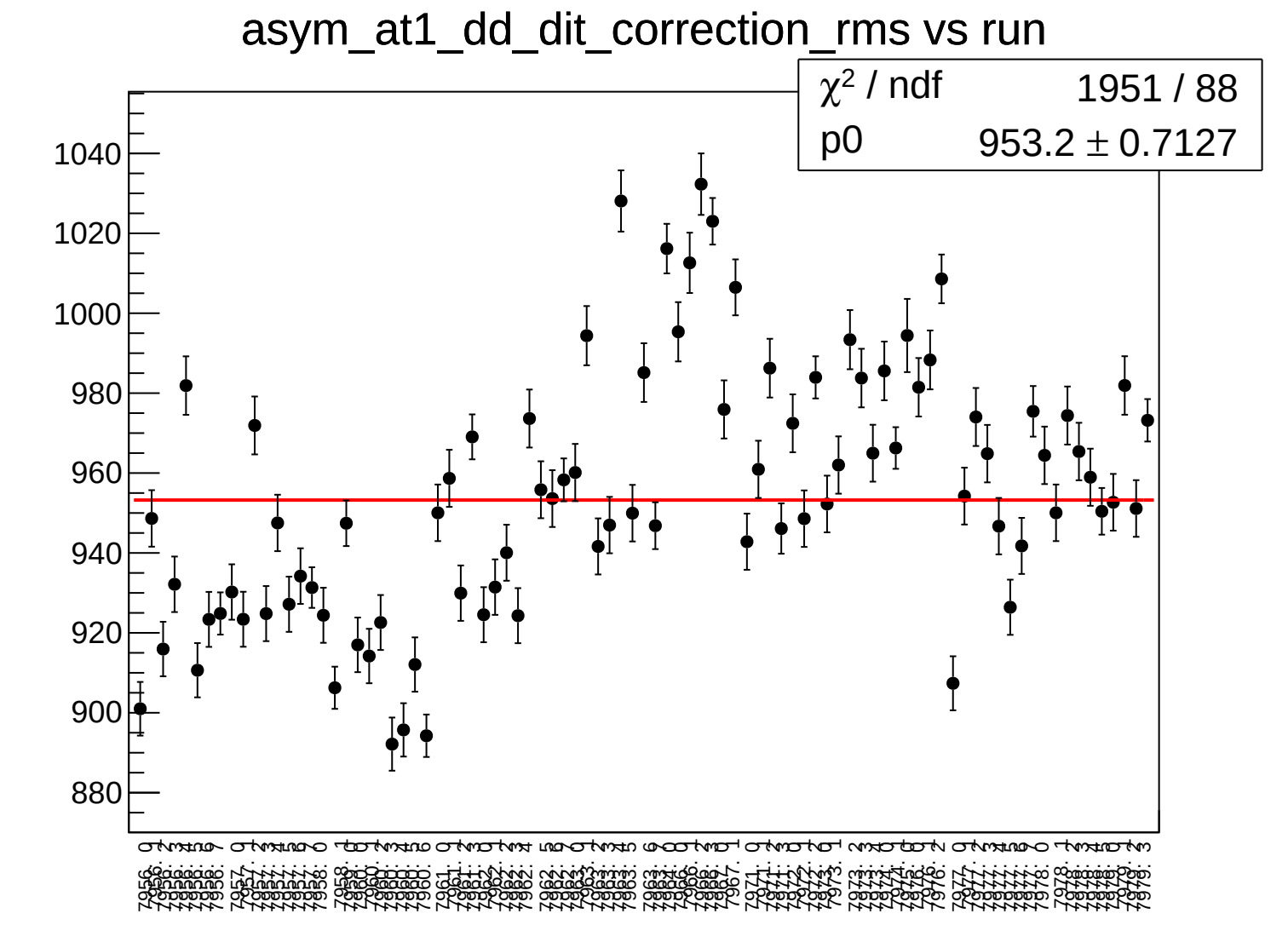

dit_asym_at1_dd_mean vs run
χ² / ndf 84.44 / 88
p0 −859.5 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −28.87
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

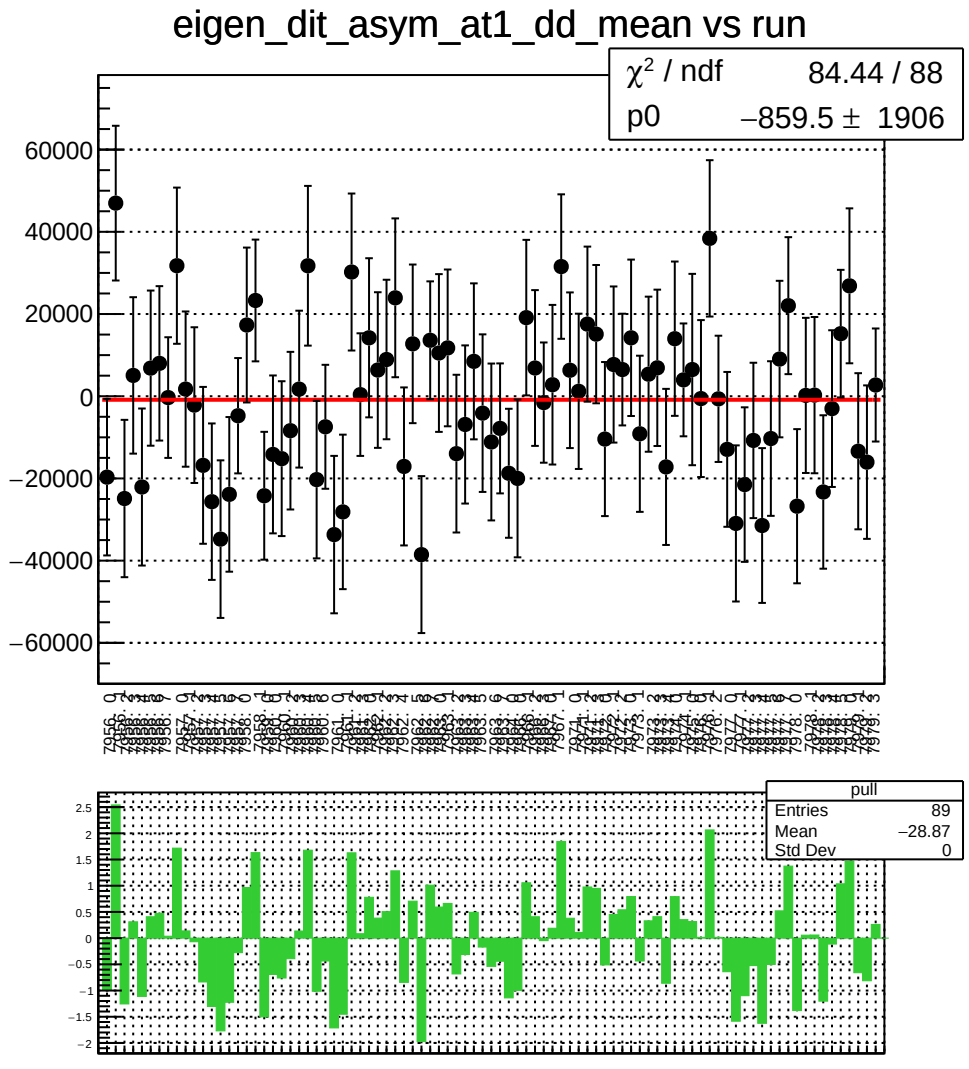

pull1D
Entries 89
Mean −0.01088
Std Dev 0.974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

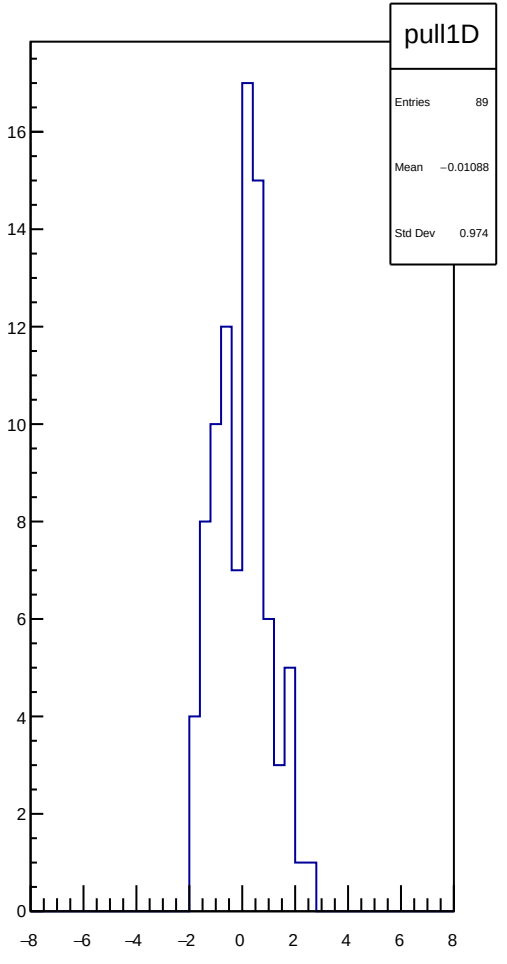

dit_asym_at1_dd_rms vs run
χ² / ndf 138.4 / 88
p0 1803 ± 1.348
1860
1840
1820
1800
1780
1760

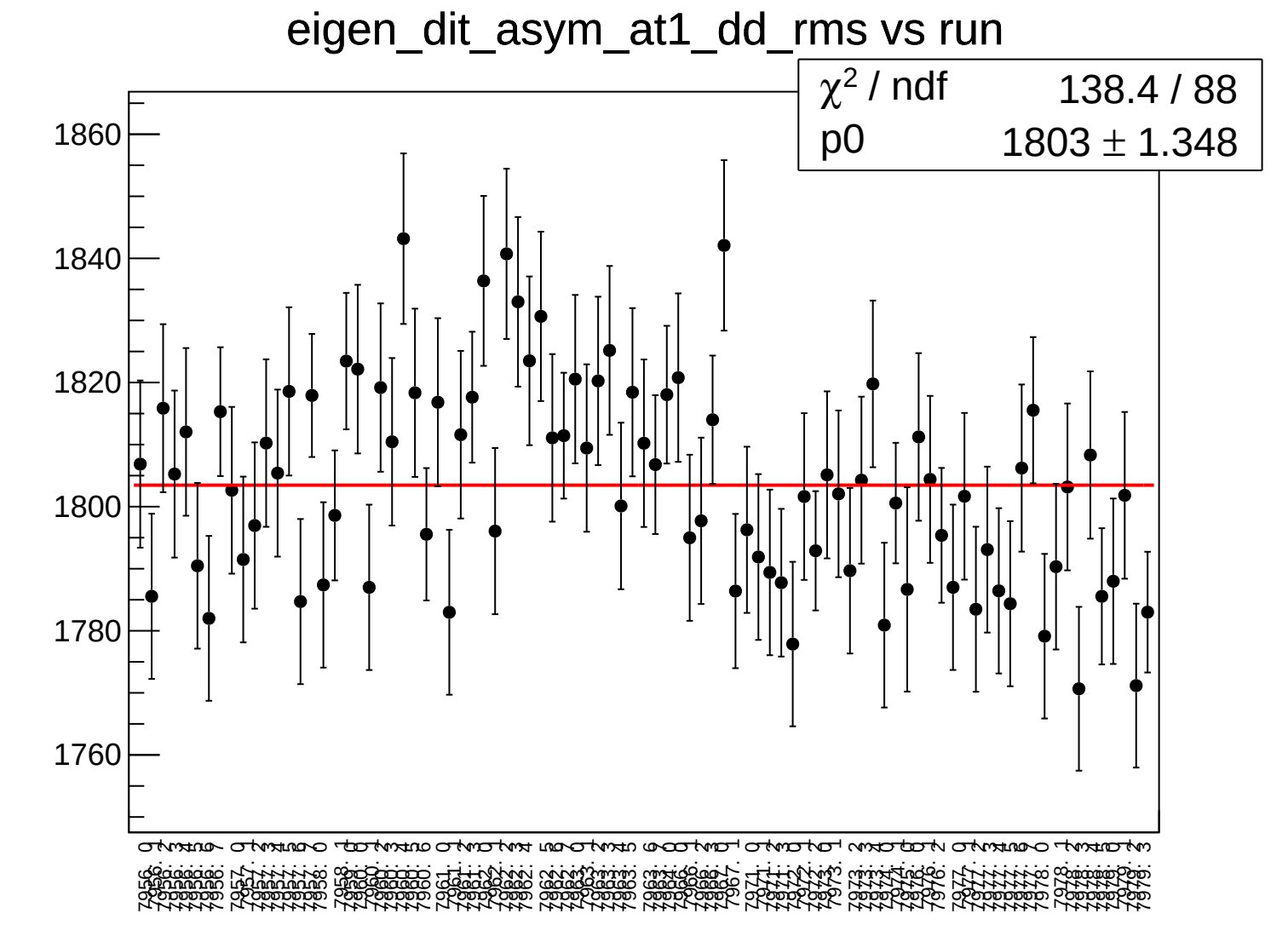

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 89.68 / 88
p0 −1196 ± 1008
pull
Entries 89
Mean 137
Std Dev 0

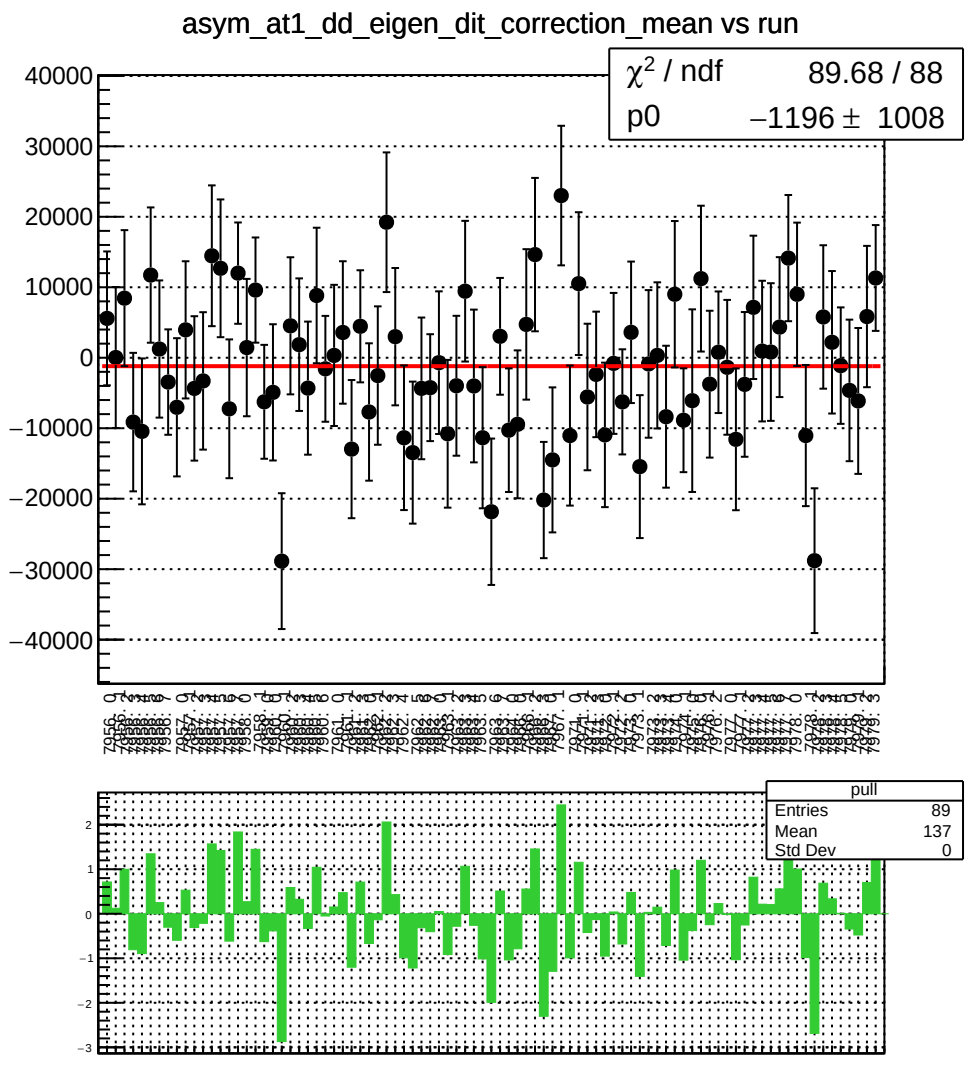

pull1D
Entries 89
Mean −0.01107
Std Dev 1.004

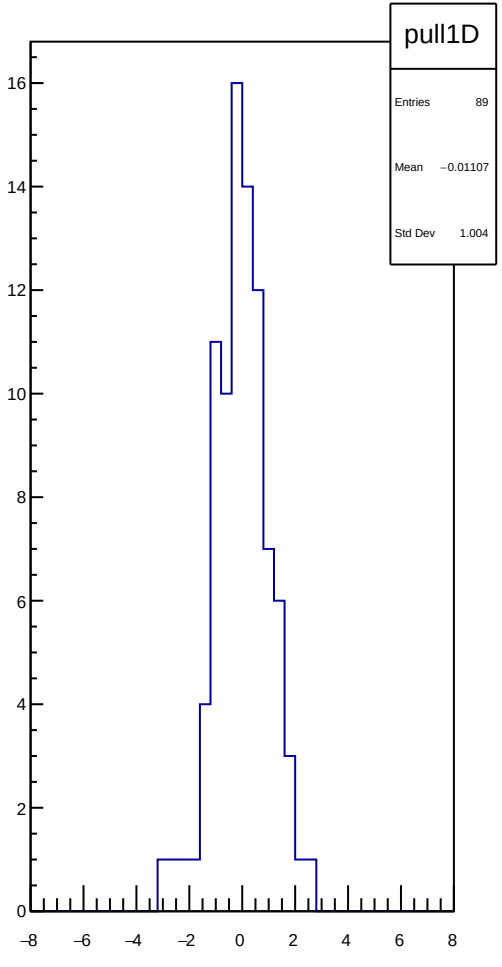

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1951 / 88
p0 953.2 ± 0.7127
1040
1020
1000
980
960
940
920
900
880

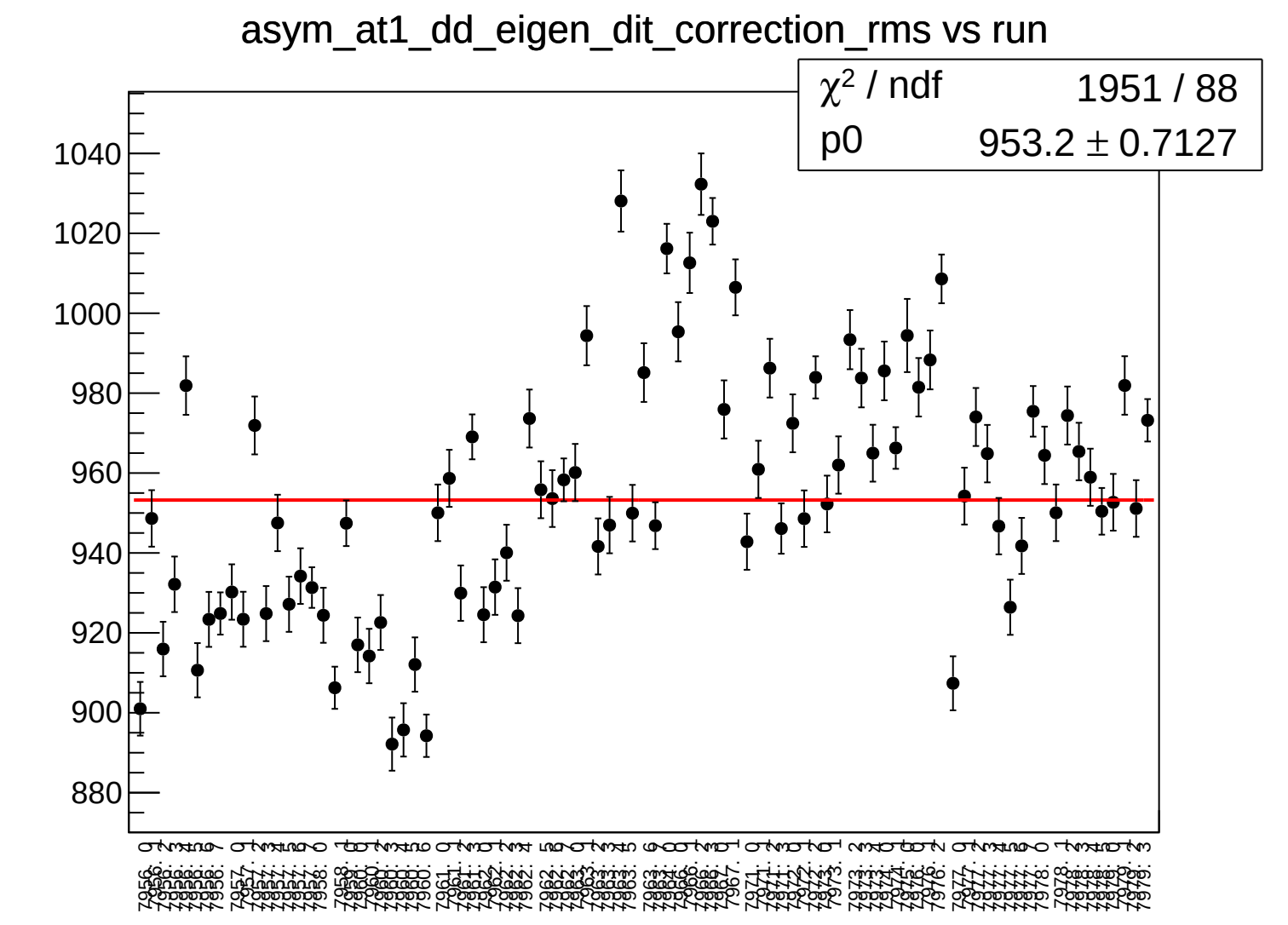

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 84.44 / 88
p0 −859.5 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −28.87
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

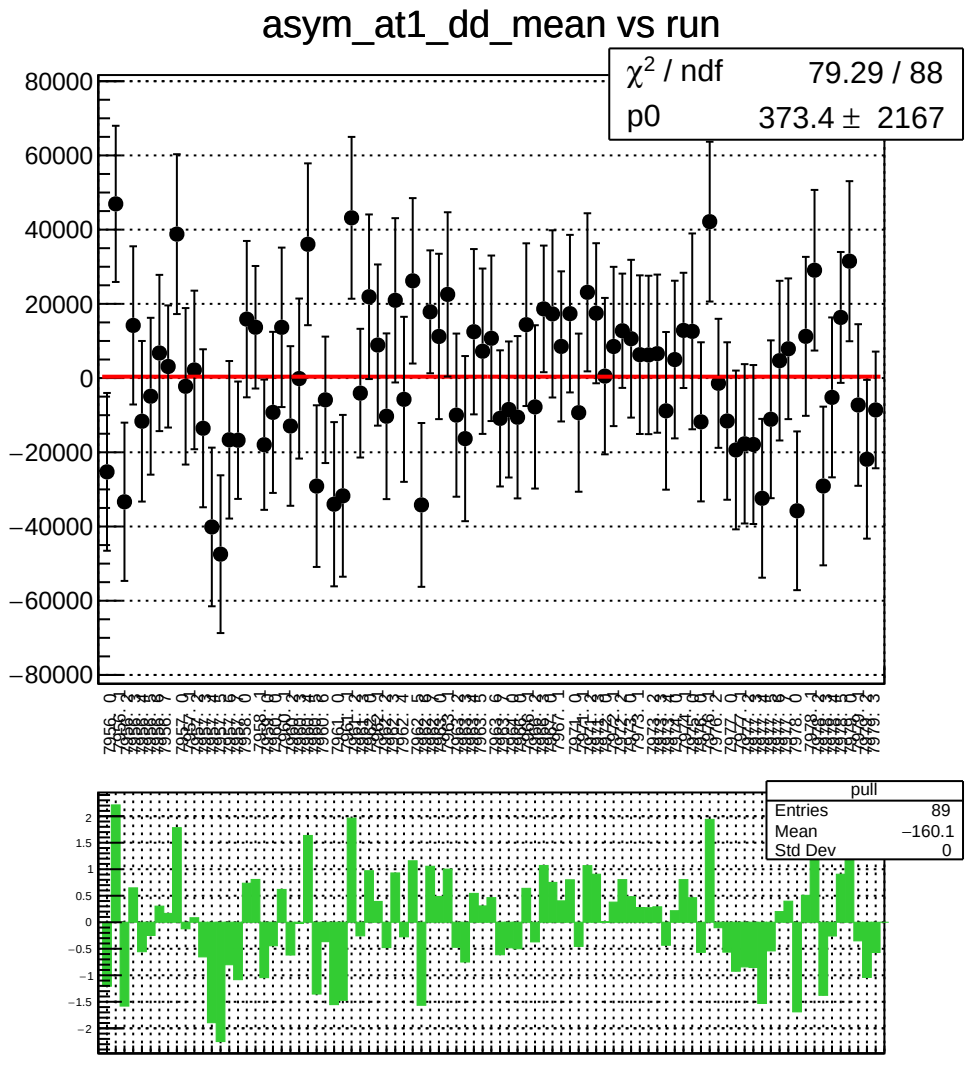

pull1D
Entries 89
Mean −0.01088
Std Dev 0.974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

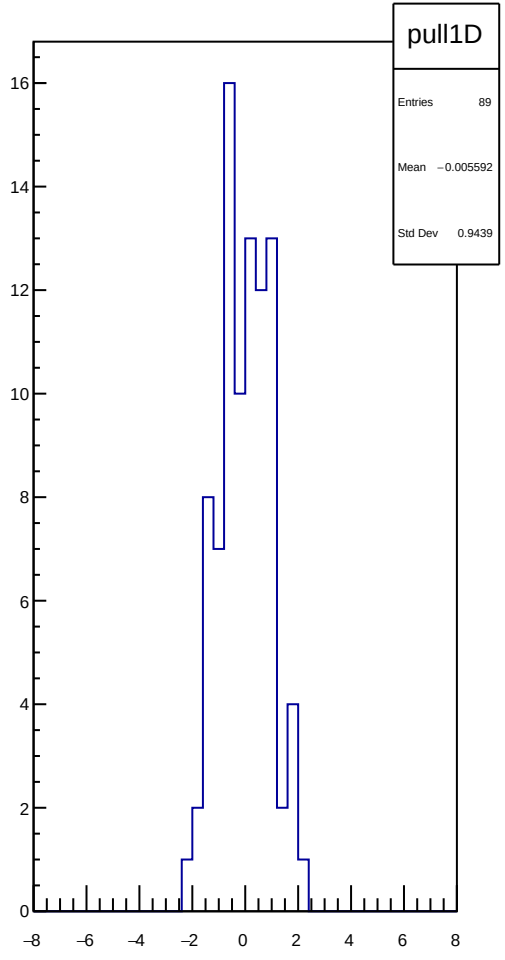

eigen_dit_asym_at1_dd_rms vs run
$\chi^2$ / ndf 138.4 / 88
p0 1803 ± 1.348
1860
1840
1820
1800
1780
1760

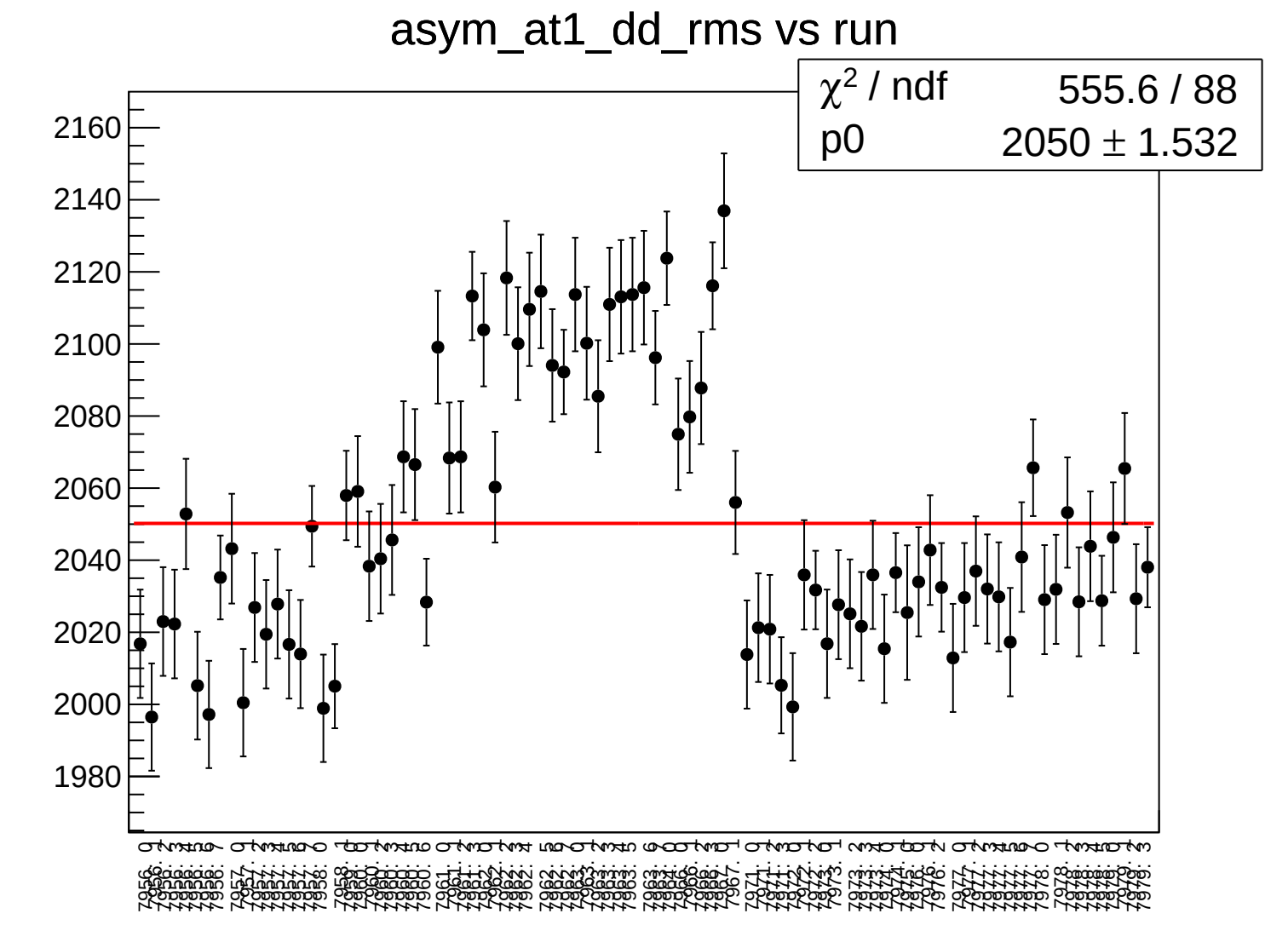

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.68 / 88
p0 −1196 ± 1008
pull
Entries 89
Mean 137
Std Dev 0

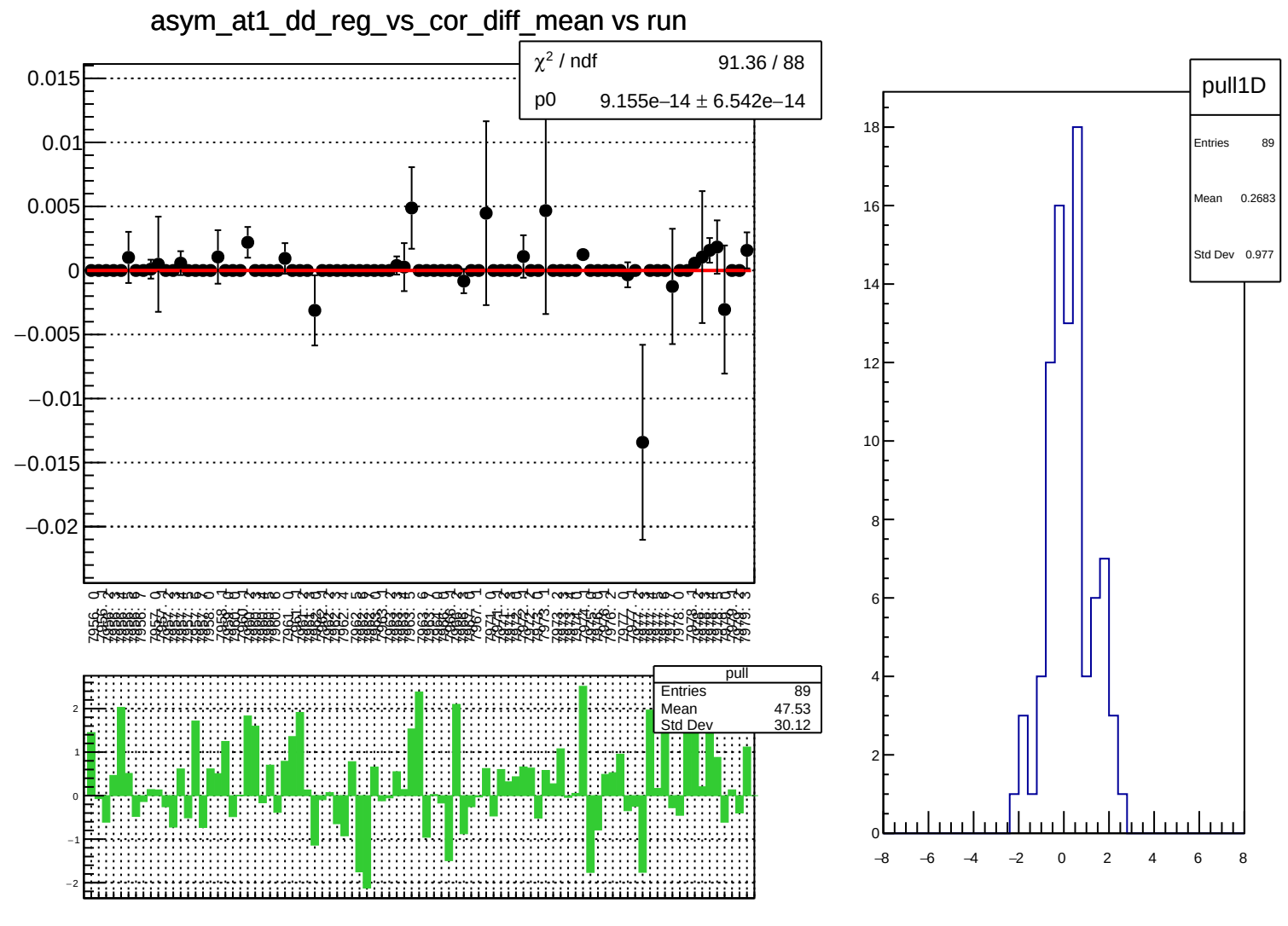

pull1D
Entries 89
Mean −0.01107
Std Dev 1.004

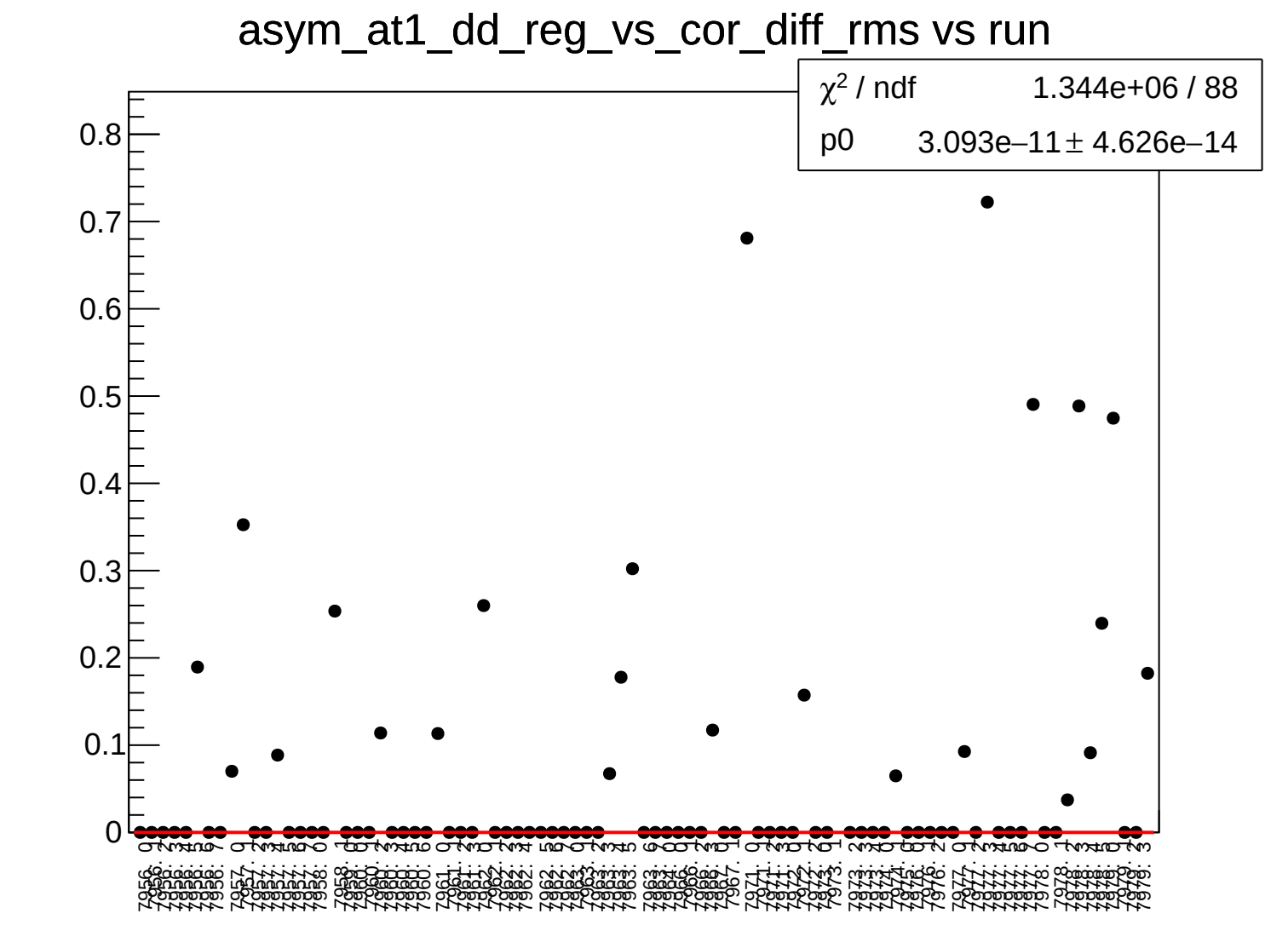

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1951 / 88
p0 953.2 ± 0.7127
1040
1020
1000
980
960
940
920
900
880

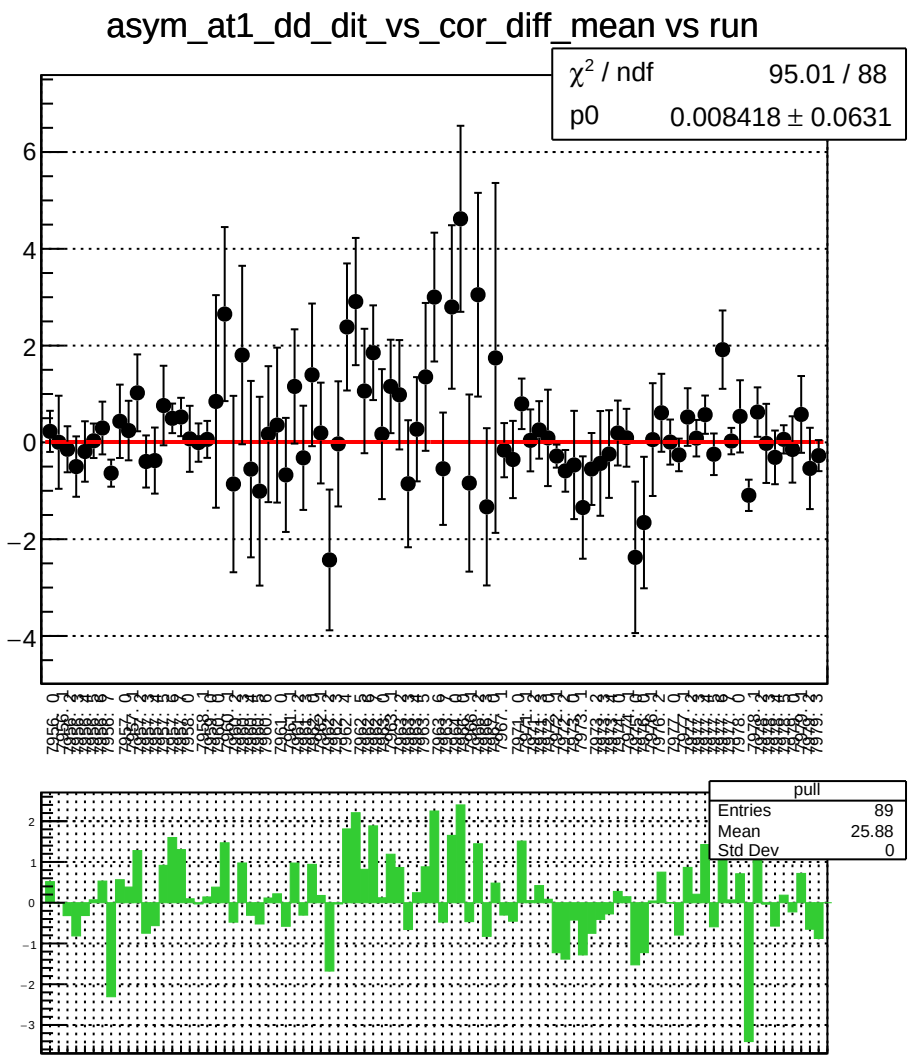

asym_at1_dd_mean vs run
χ² / ndf 79.29 / 88
p0 373.4 ± 2167
pull
Entries 89
Mean −160.1
Std Dev 0

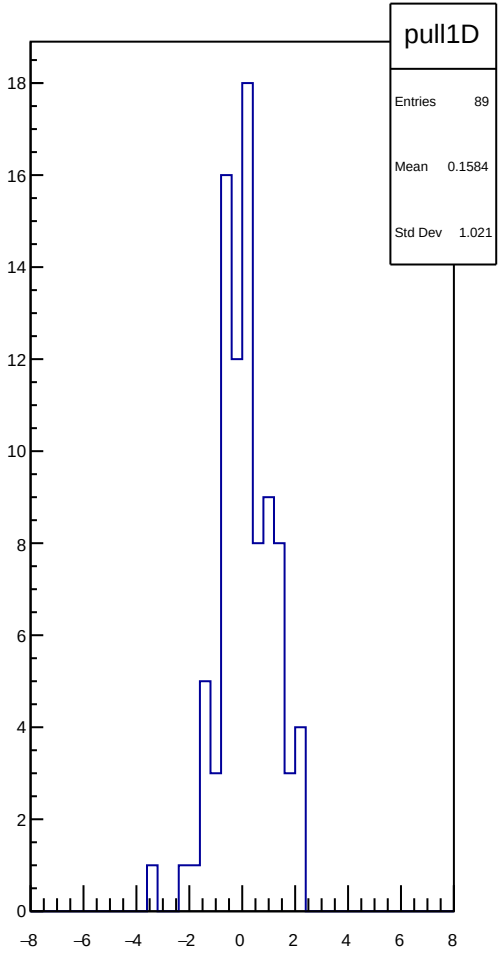

pull1D
Entries 89
Mean −0.005592
Std Dev 0.9439

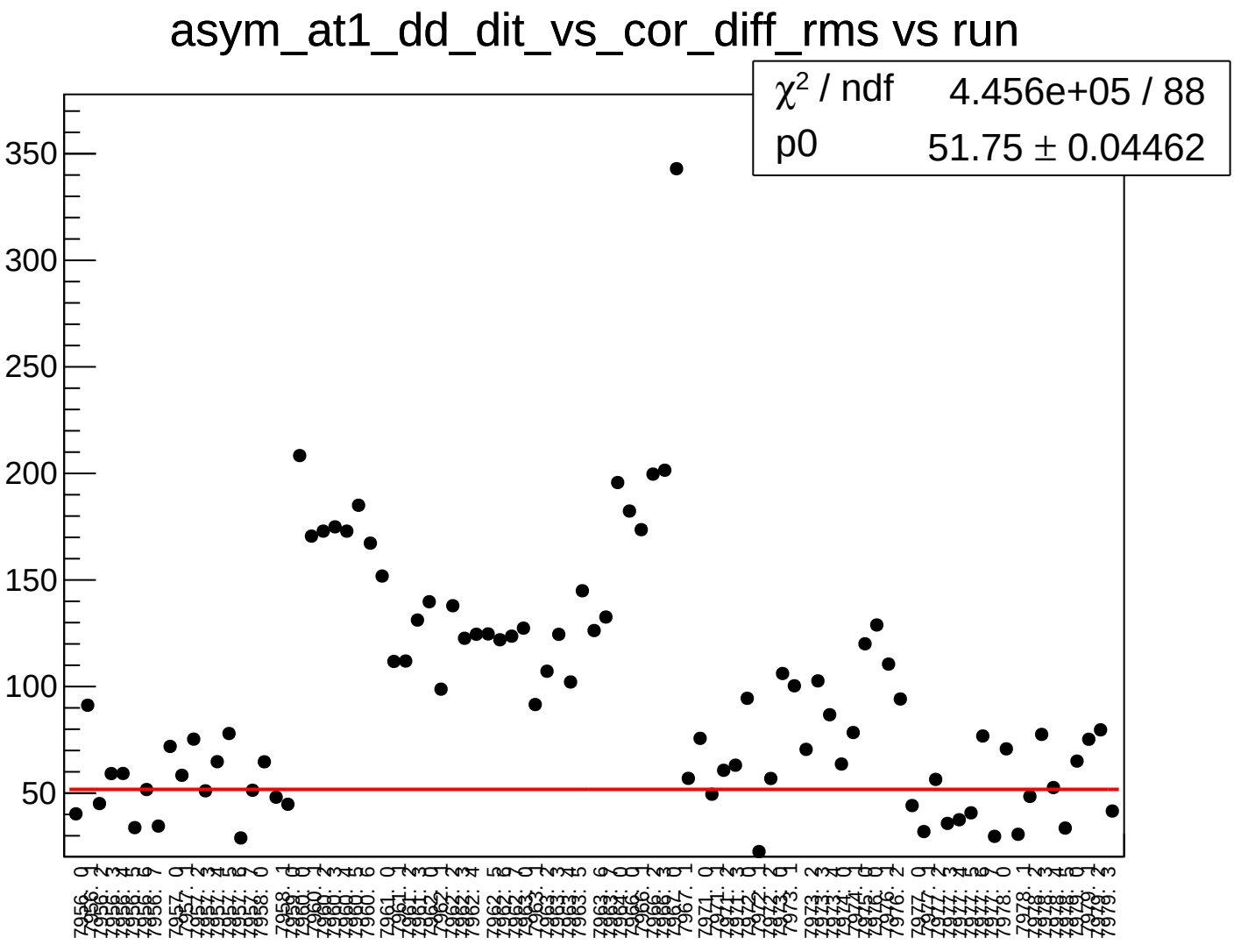

asym_at1_dd_rms vs run
$\chi^2$ / ndf 555.6 / 88
p0 2050 ± 1.532
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980

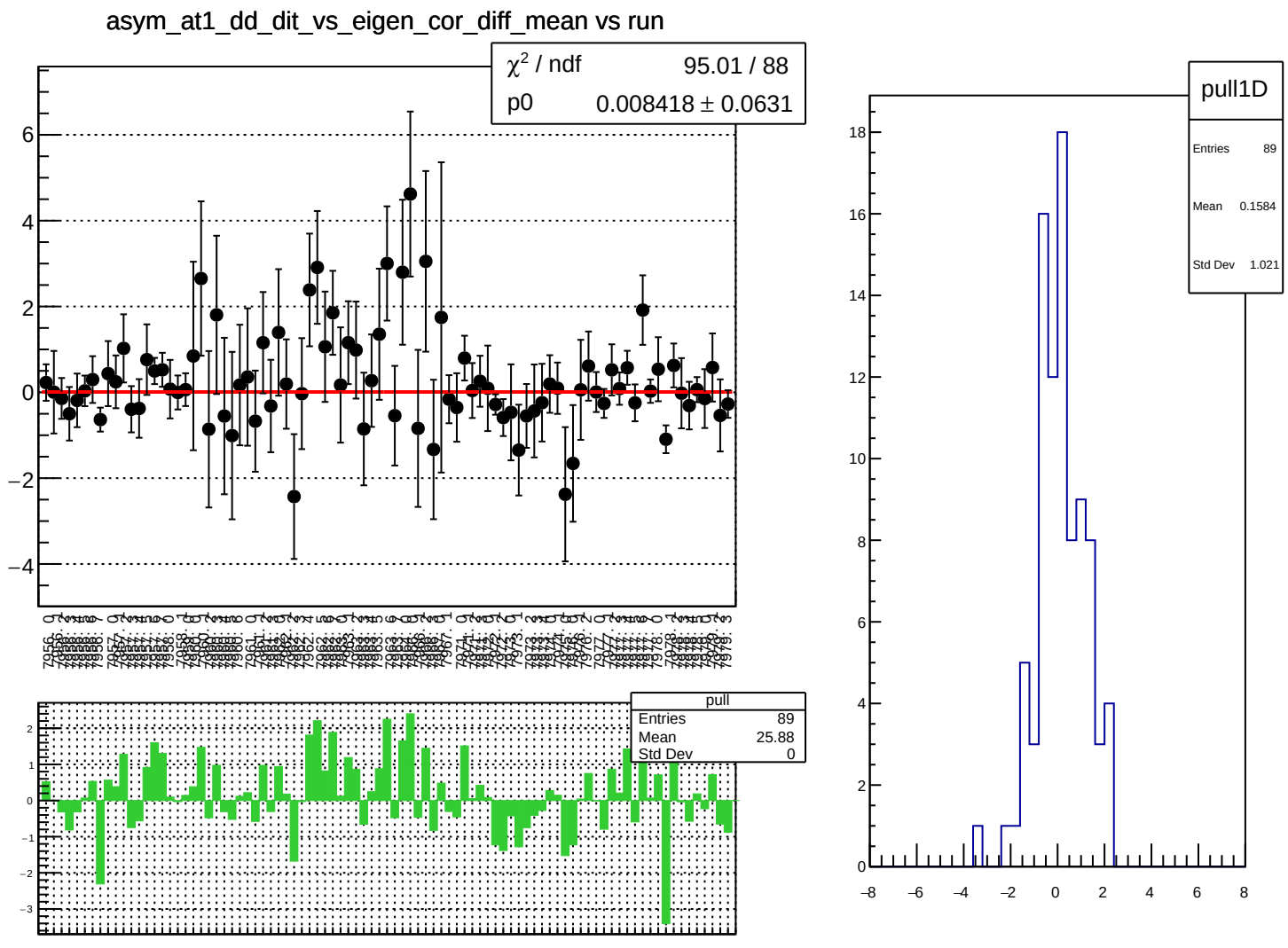

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.36 / 88
p0 9.155e−14 ± 6.542e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 47.53
Std Dev 30.12
pull1D
Entries 89
Mean 0.2683
Std Dev 0.977

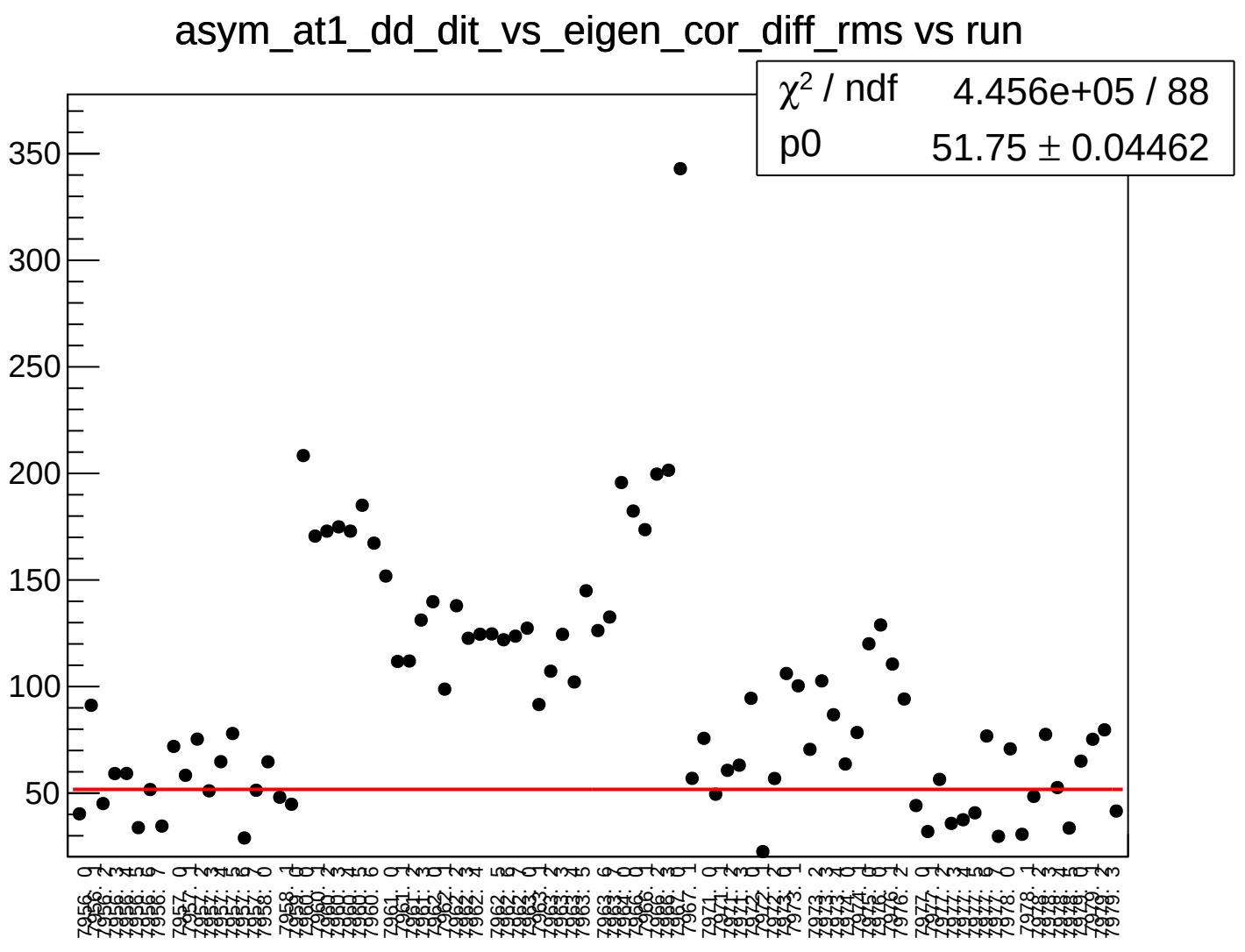

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.344e+06 / 88
p0 3.093e−11 ± 4.626e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

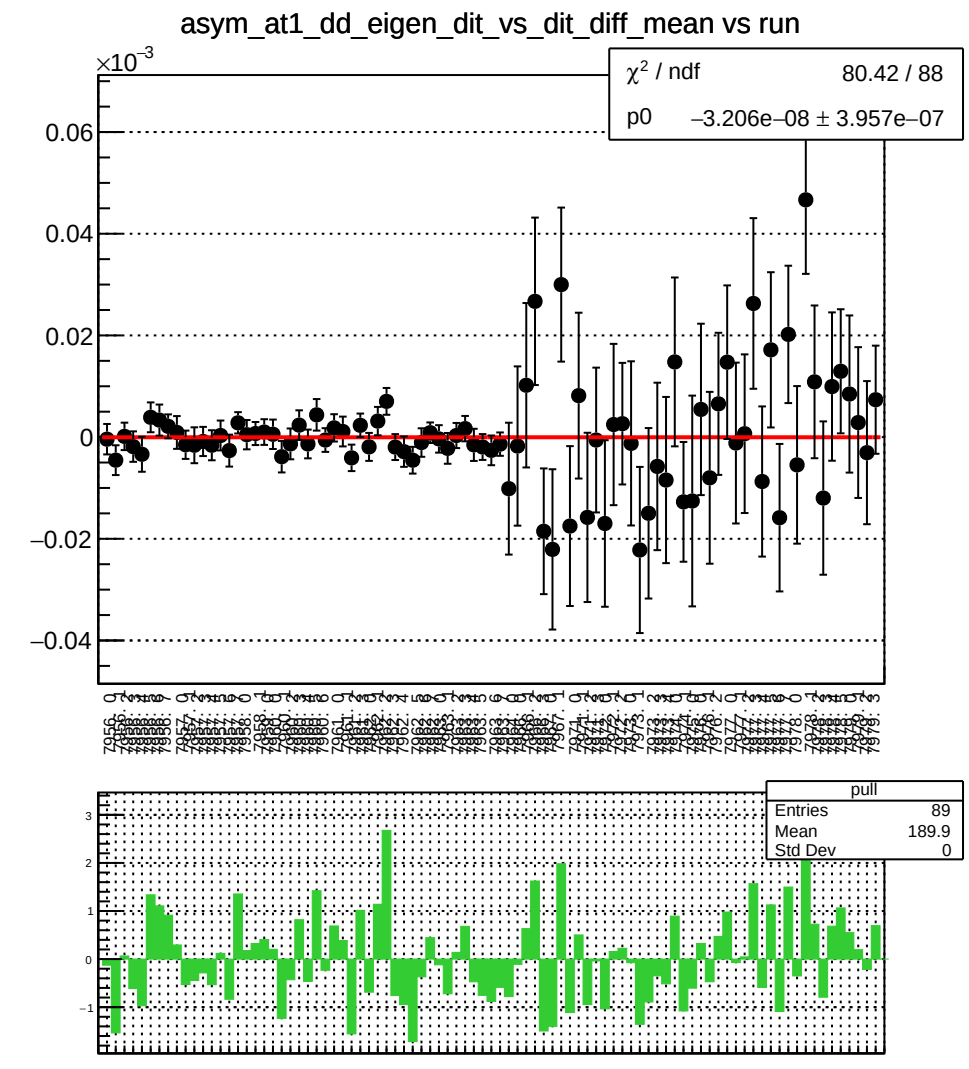

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.01 / 88
p0 0.008418 ± 0.0631
pull
Entries 89
Mean 25.88
Std Dev 0

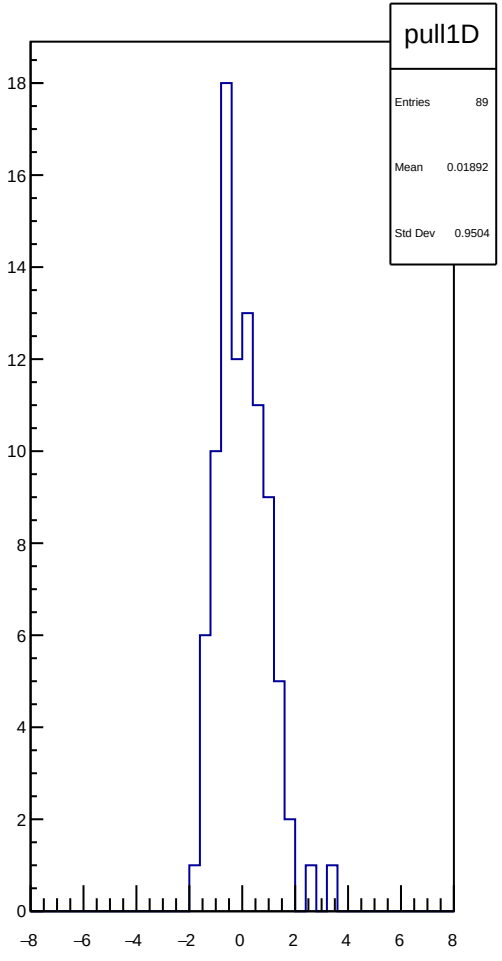

pull1D
Entries 89
Mean 0.1584
Std Dev 1.021

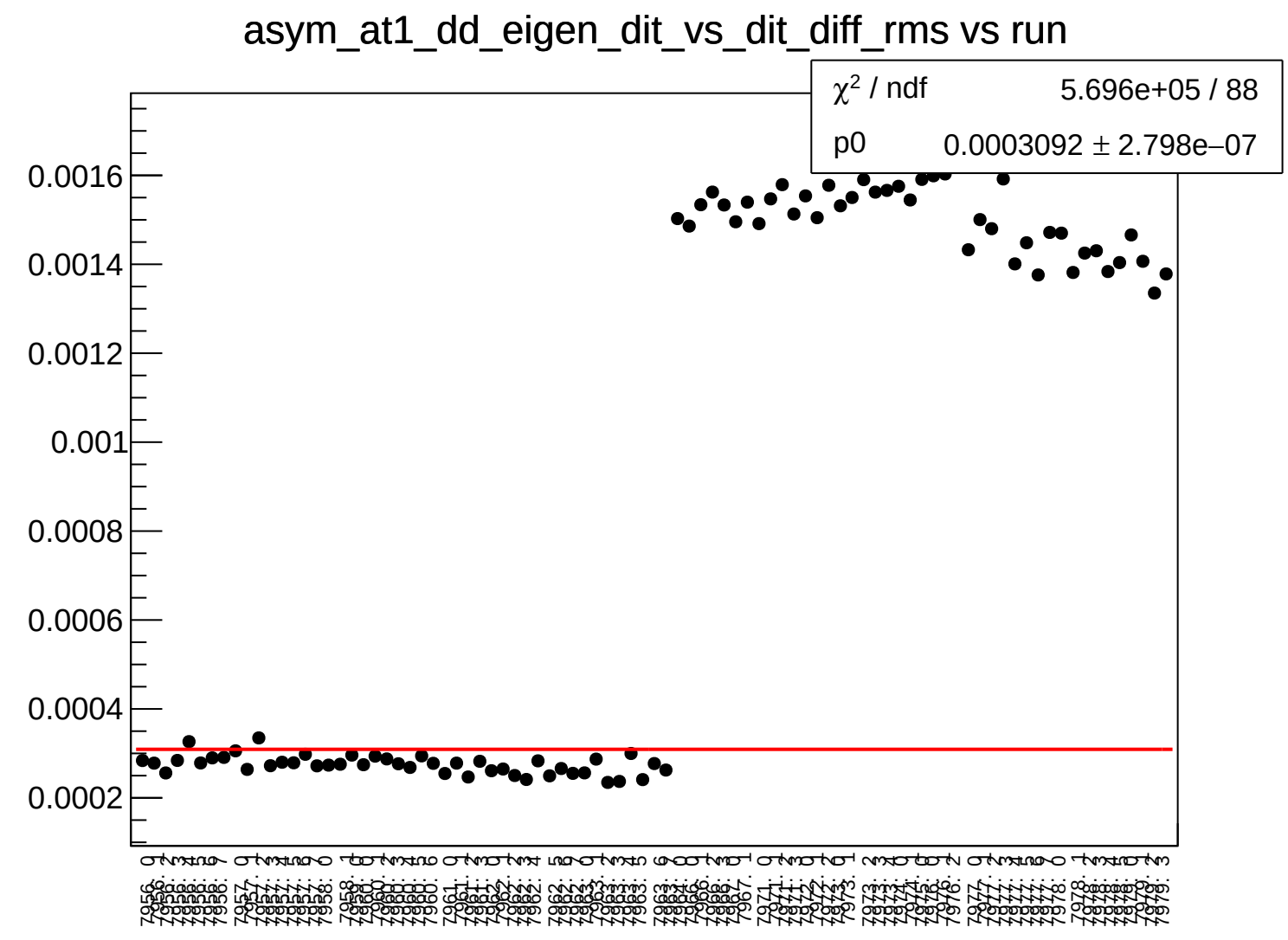

asym_at1_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.456e+05 / 88
p0 51.75 ± 0.04462
350
300
250
200
150
100
50

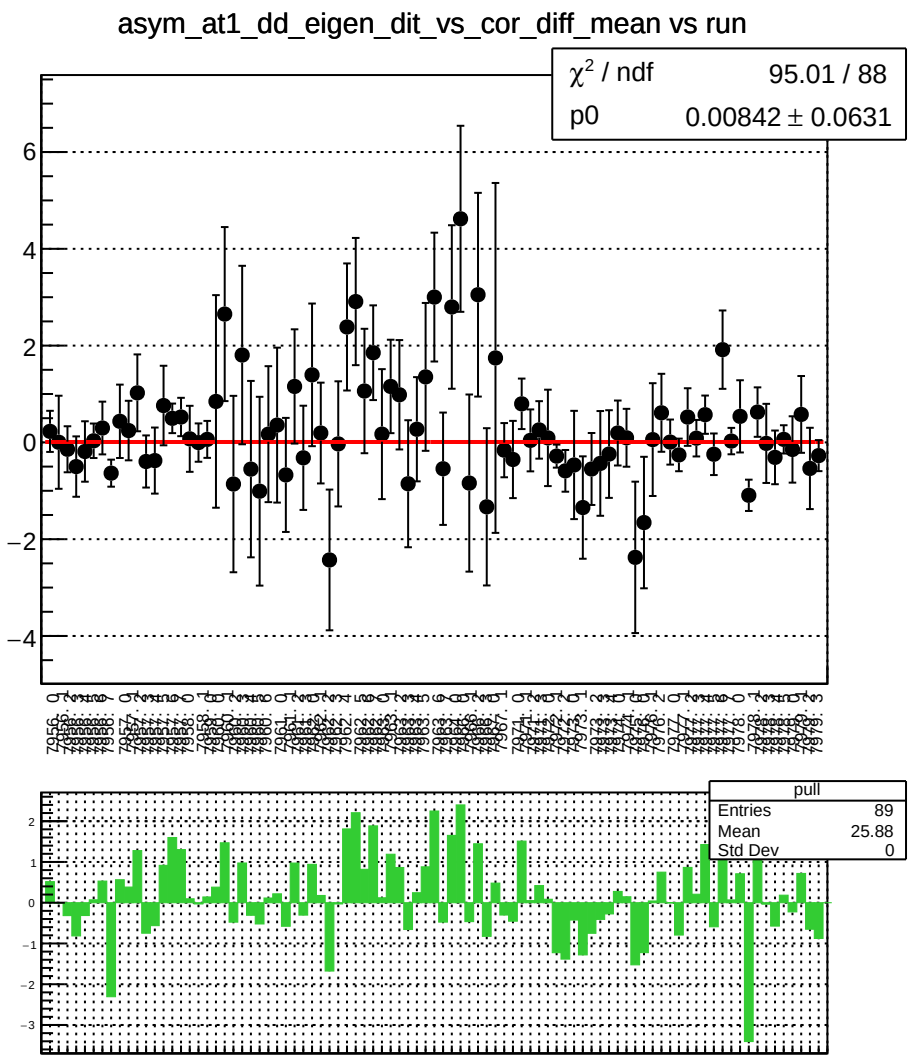

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.01 / 88
p0 0.008418 ± 0.0631
pull
Entries 89
Mean 25.88
Std Dev 0
pull1D
Entries 89
Mean 0.1584
Std Dev 1.021

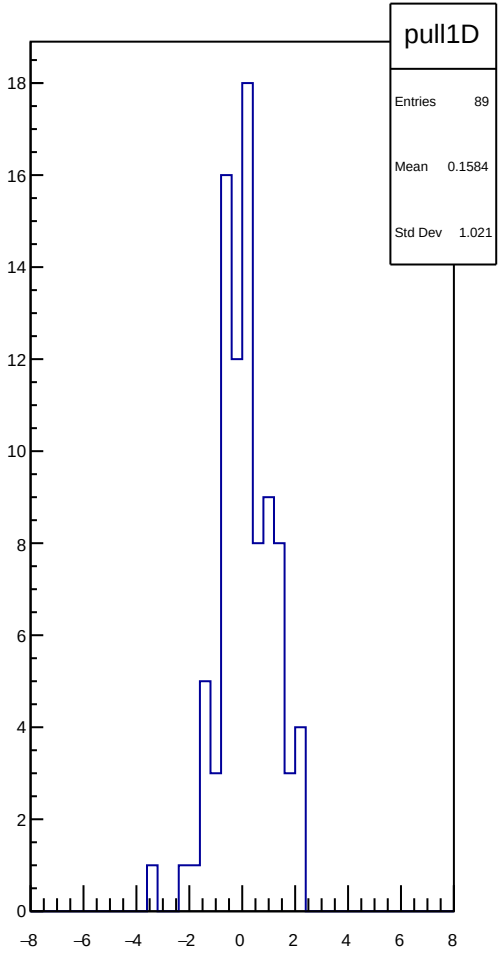

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.456e+05 / 88
p0 51.75 ± 0.04462
350
300
250
200
150
100
50

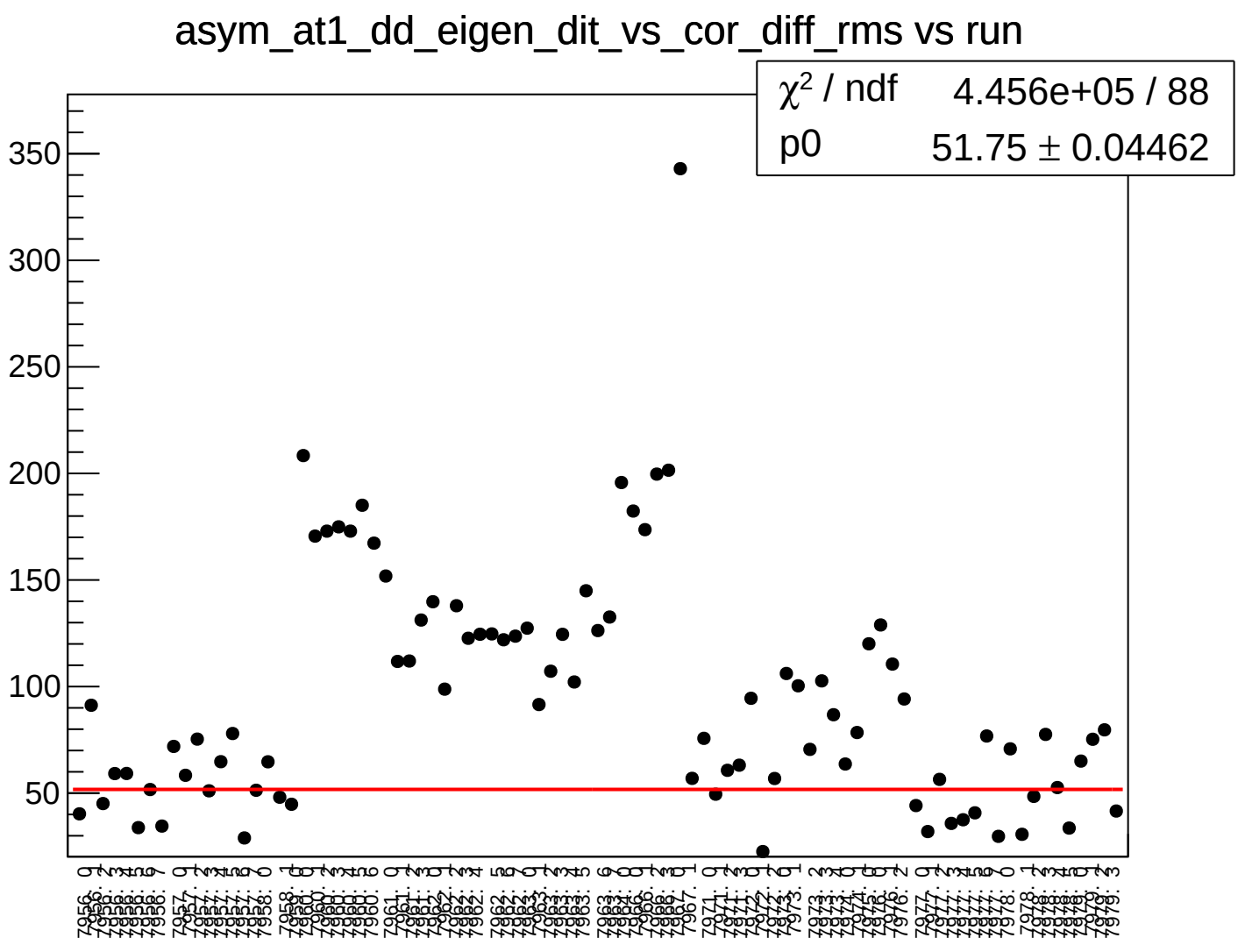

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.42 / 88
p0 −3.206e−08 ± 3.957e−07
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 189.9
Std Dev 0
3
2
1
0
−1

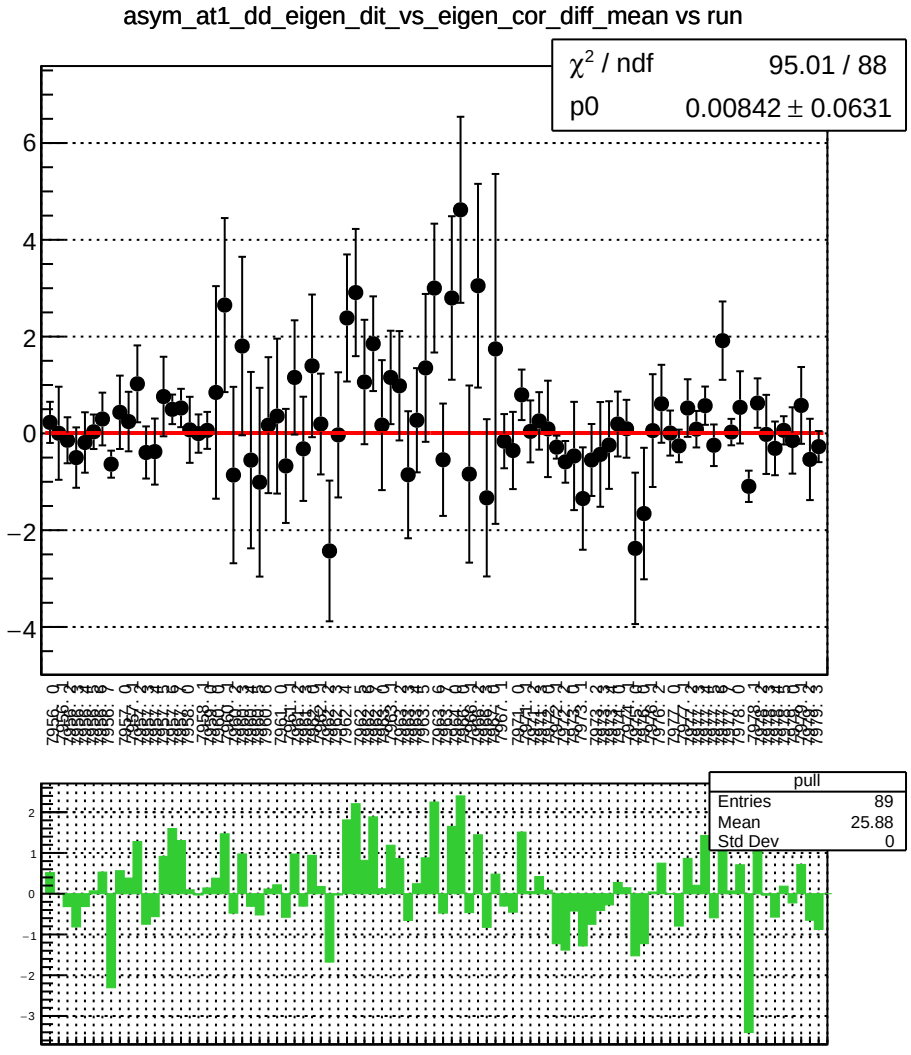

pull1D
Entries 89
Mean 0.01892
Std Dev 0.9504
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

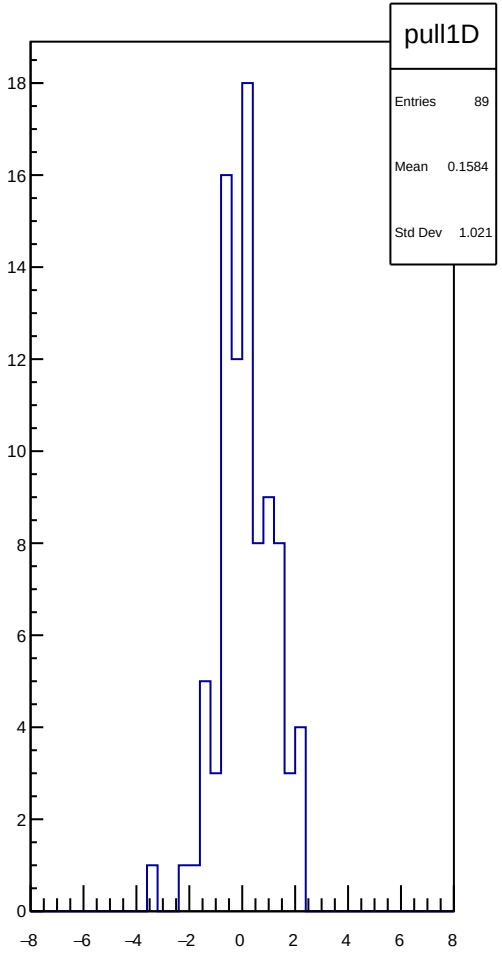

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.696e+05 / 88
p0 0.0003092 ± 2.798e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

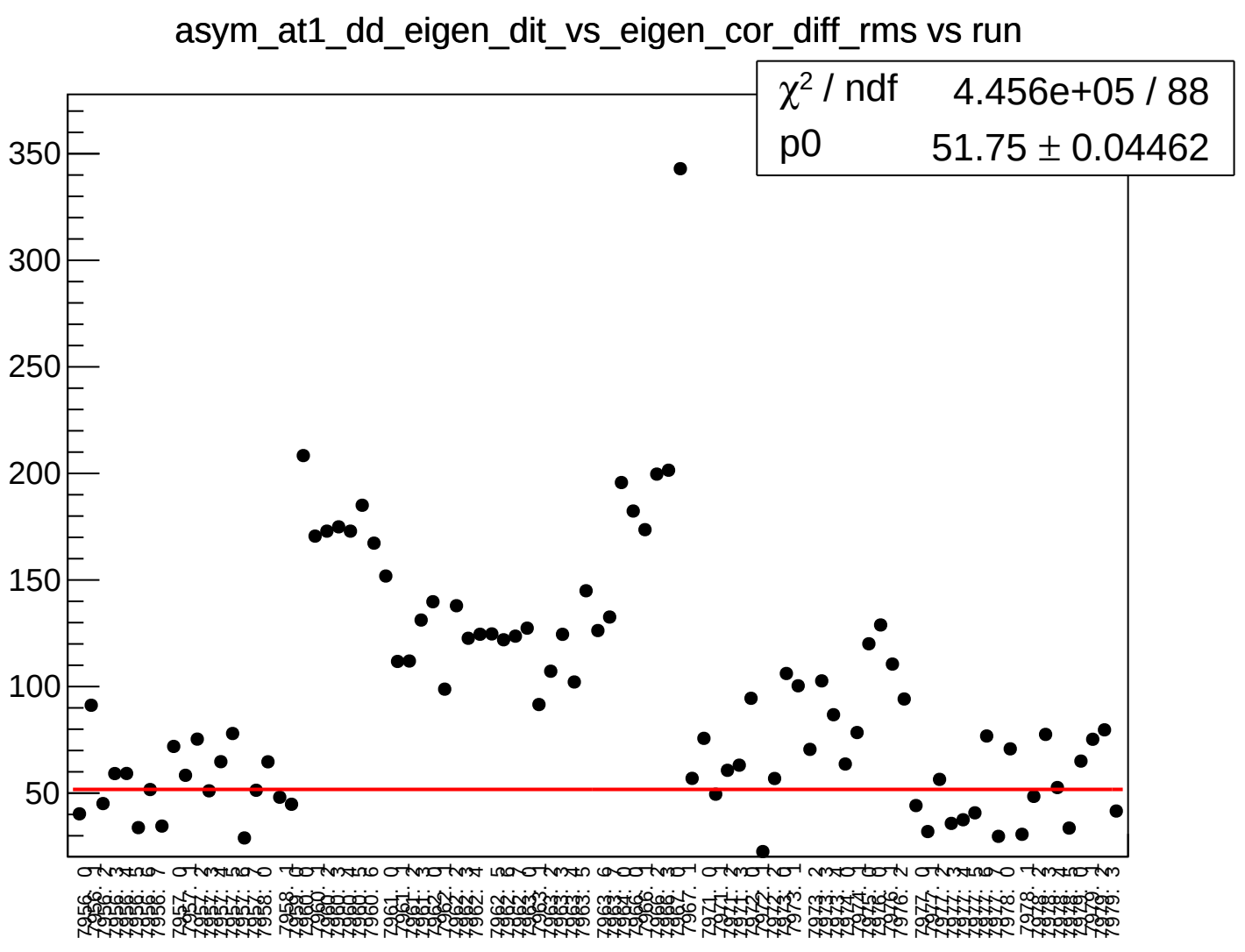

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.01 / 88
p0 0.00842 ± 0.0631
pull
Entries 89
Mean 25.88
Std Dev 0

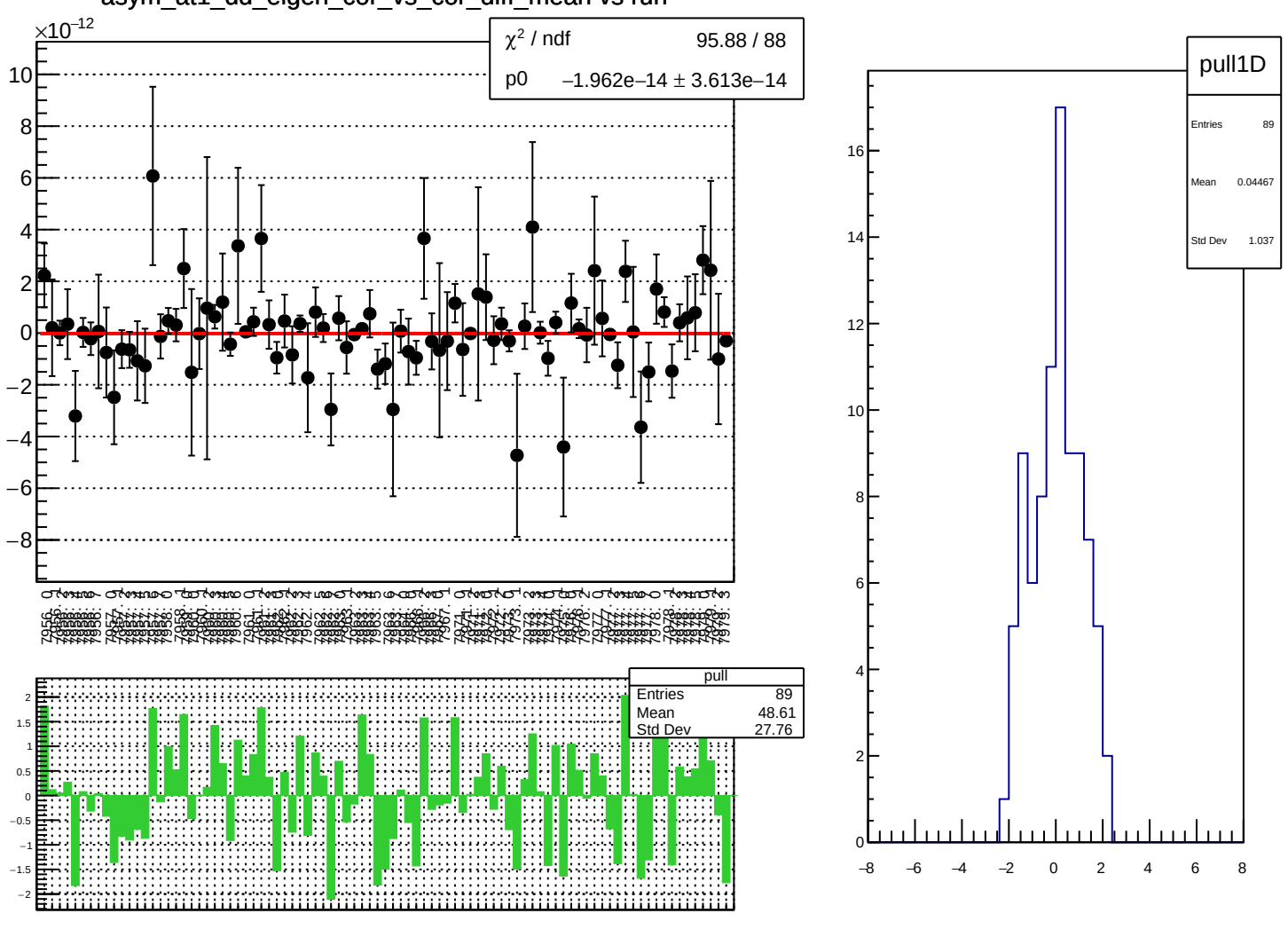

pull1D
Entries 89
Mean 0.1584
Std Dev 1.021

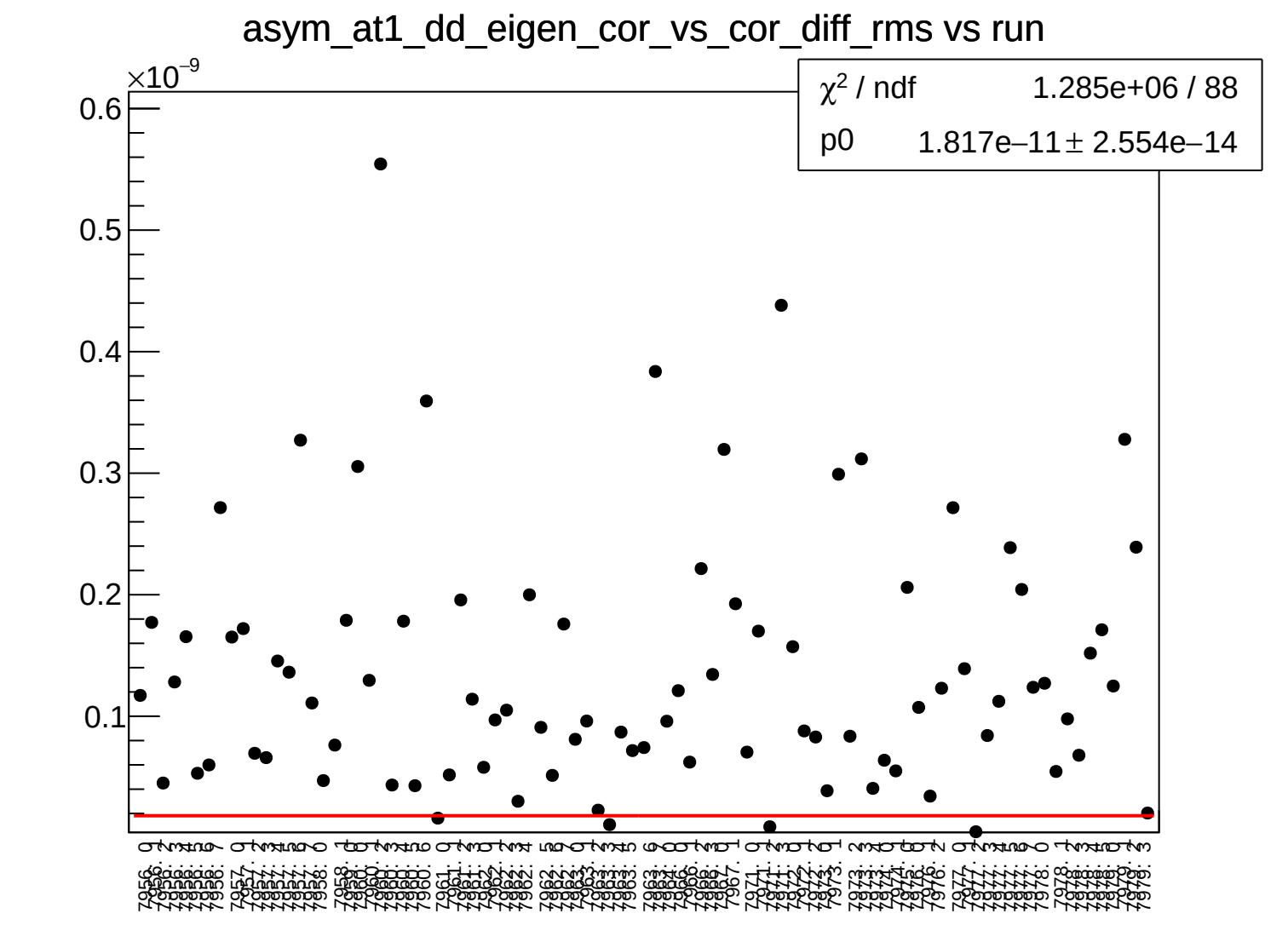

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.456e+05 / 88
p0 51.75 ± 0.04462
350
300
250
200
150
100
50

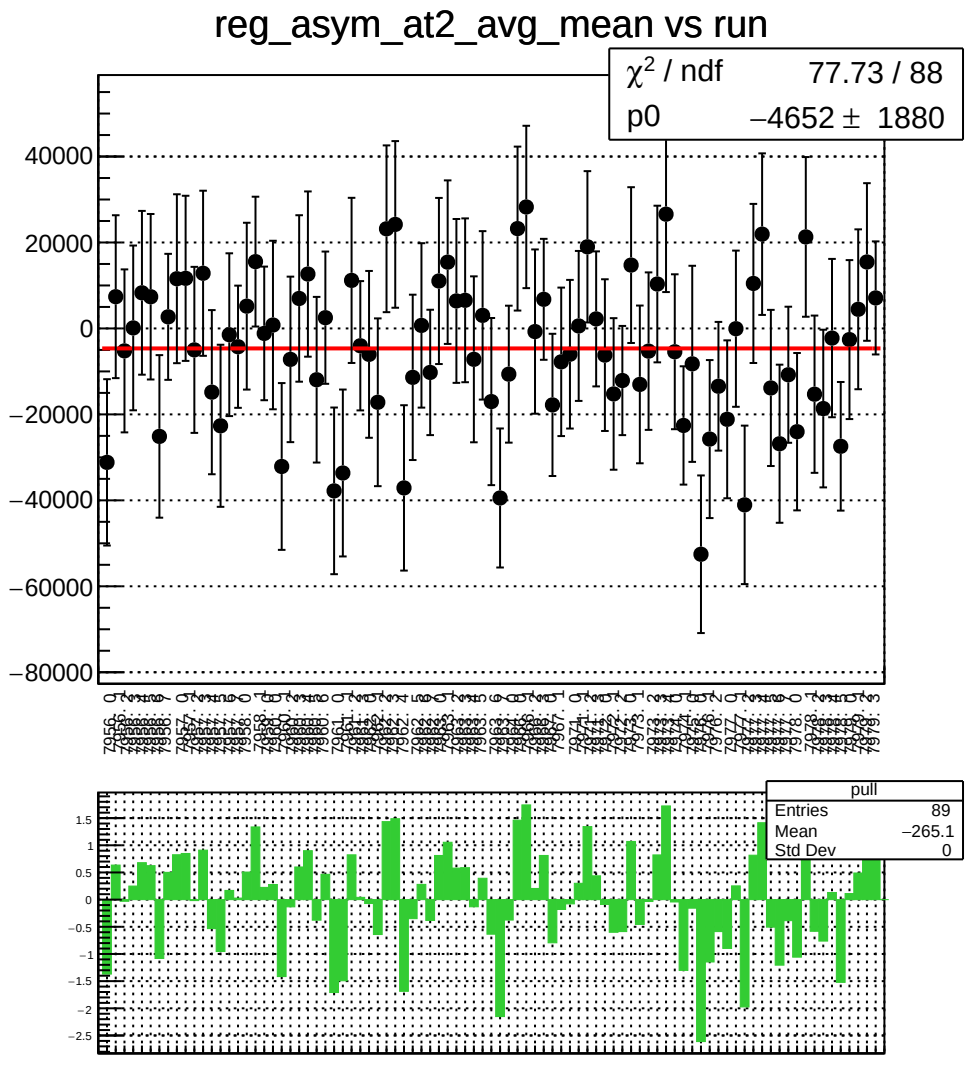

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.01 / 88
p0 0.00842 ± 0.0631
pull
Entries 89
Mean 25.88
Std Dev 0

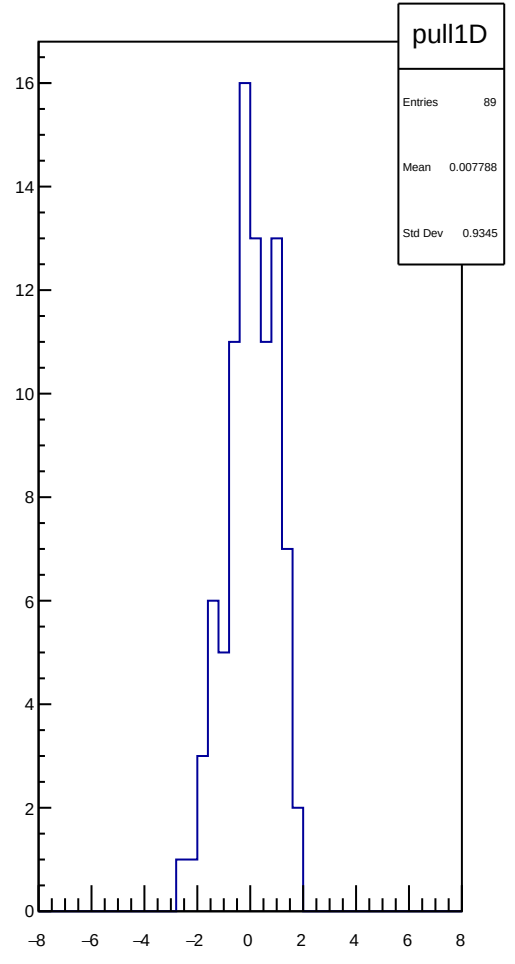

pull1D
Entries 89
Mean 0.1584
Std Dev 1.021

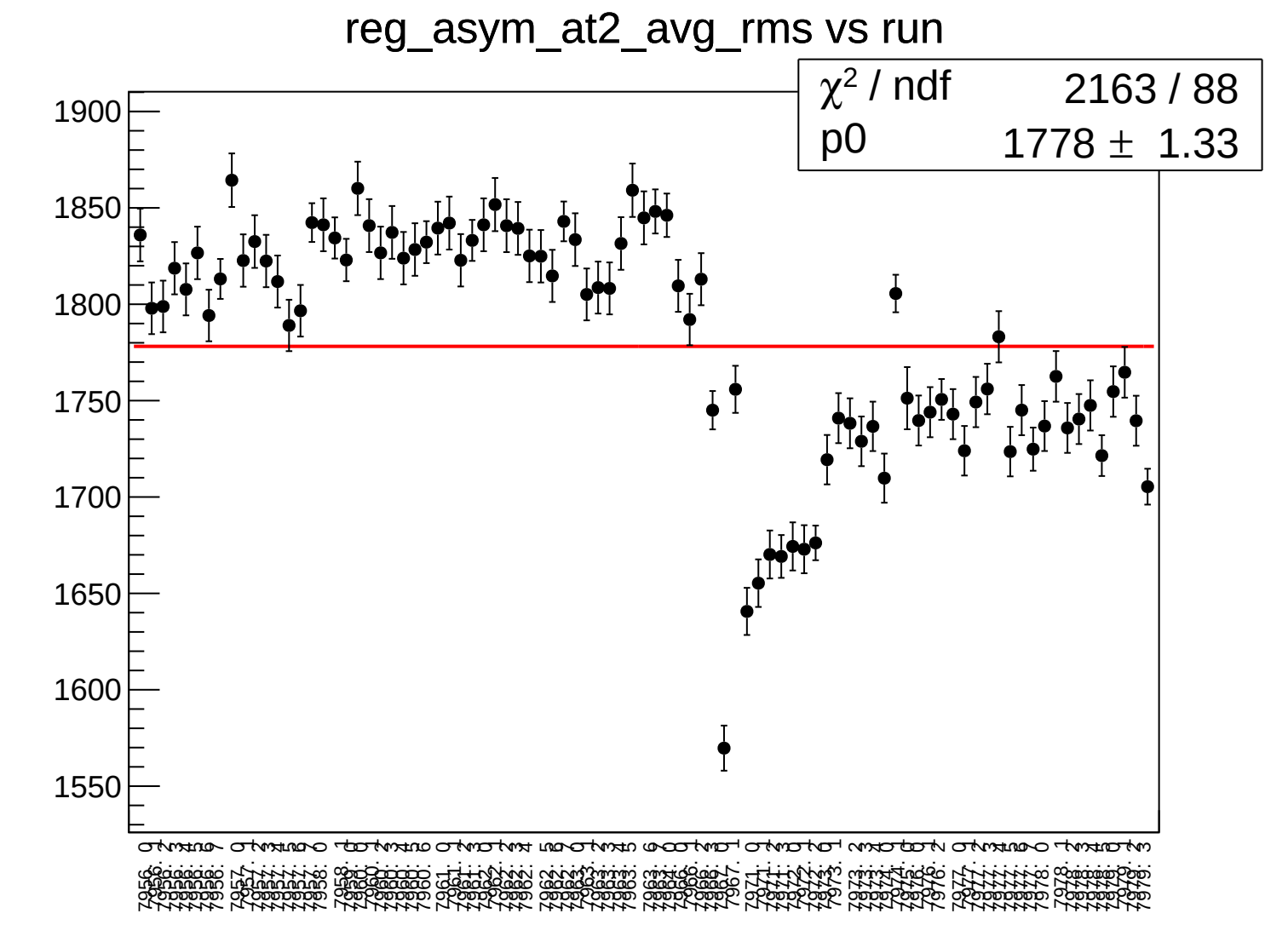

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.456e+05 / 88
p0 51.75 ± 0.04462
350
300
250
200
150
100
50

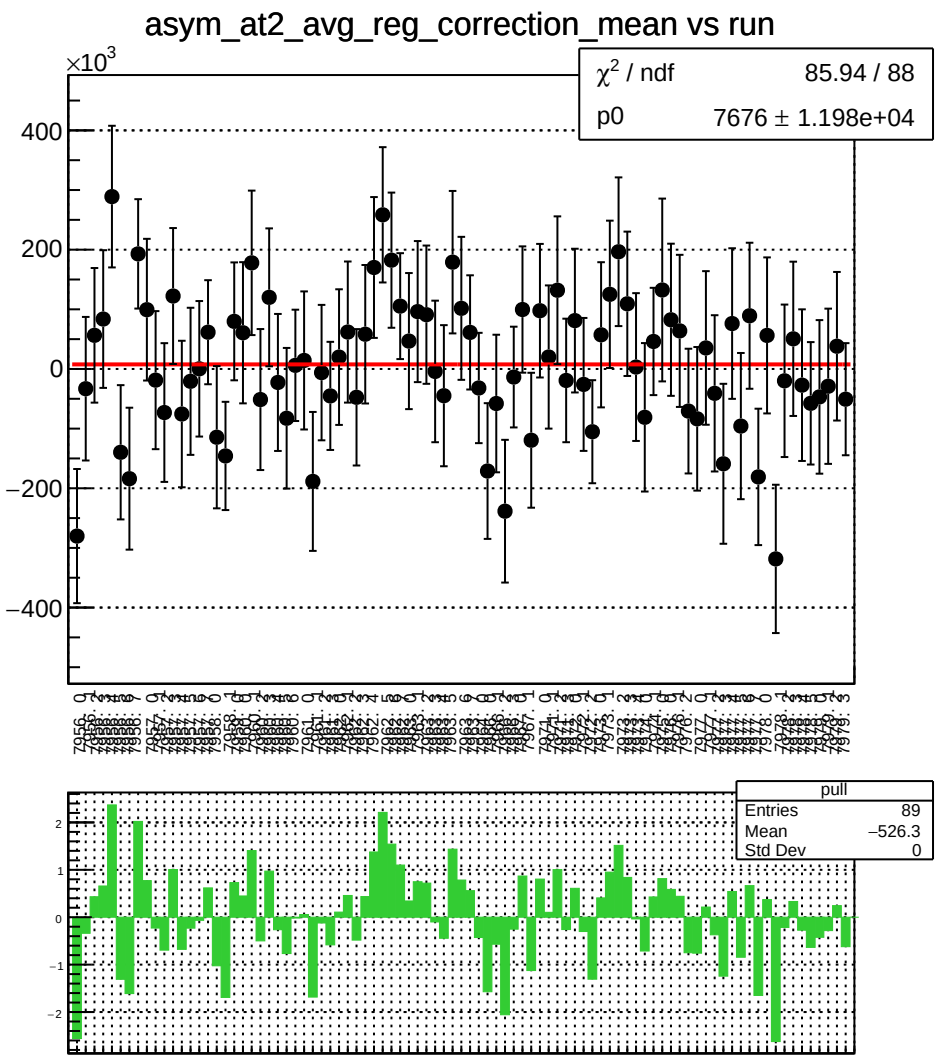

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.88 / 88
p0 −1.962e−14 ± 3.613e−14
pull
Entries 89
Mean 48.61
Std Dev 27.76
pull1D
Entries 89
Mean 0.04467
Std Dev 1.037

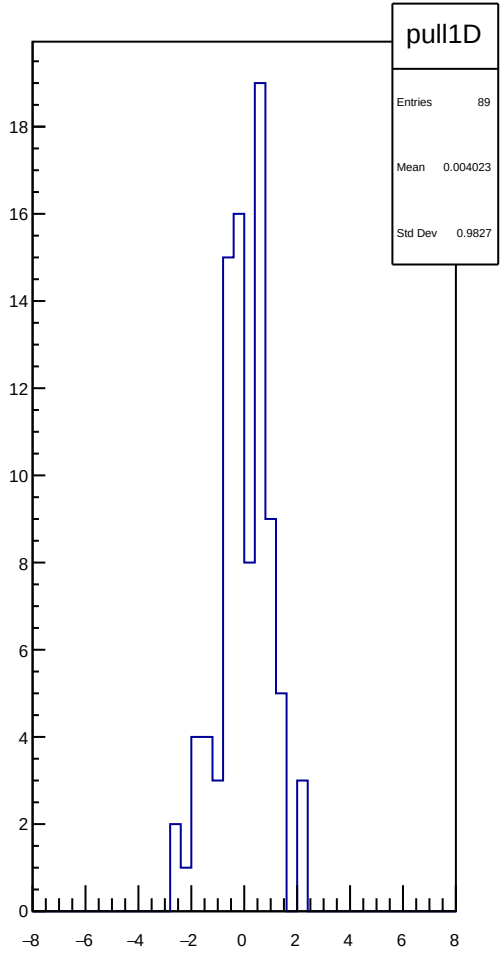

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.285e+06 / 88
p0 1.817e−11 ± 2.554e−14
0.6
0.5
0.4
0.3
0.2
0.1

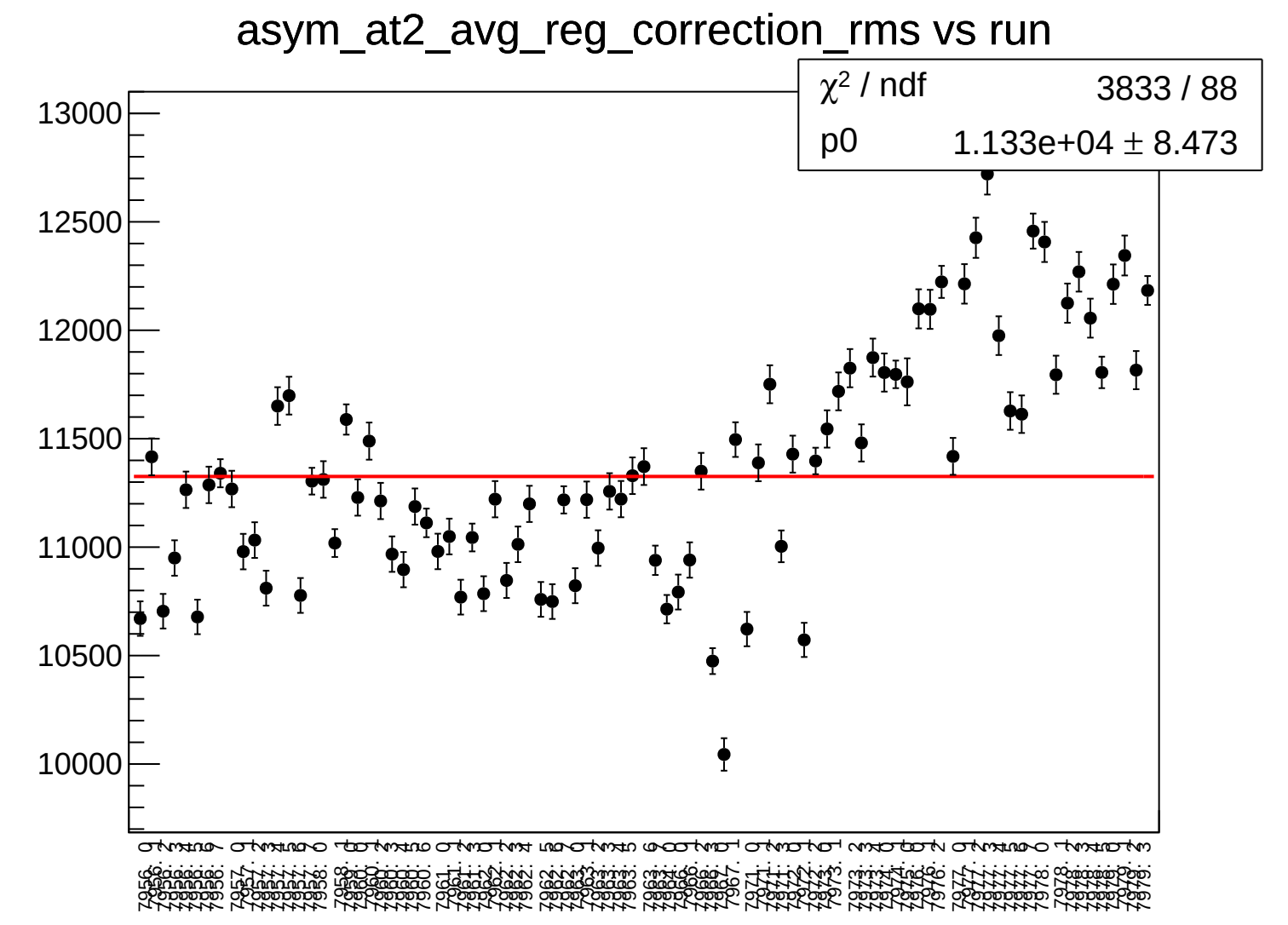

reg_asym_at2_avg_mean vs run
χ² / ndf 77.73 / 88
p0 −4652 ± 1880
pull
Entries 89
Mean −265.1
Std Dev 0

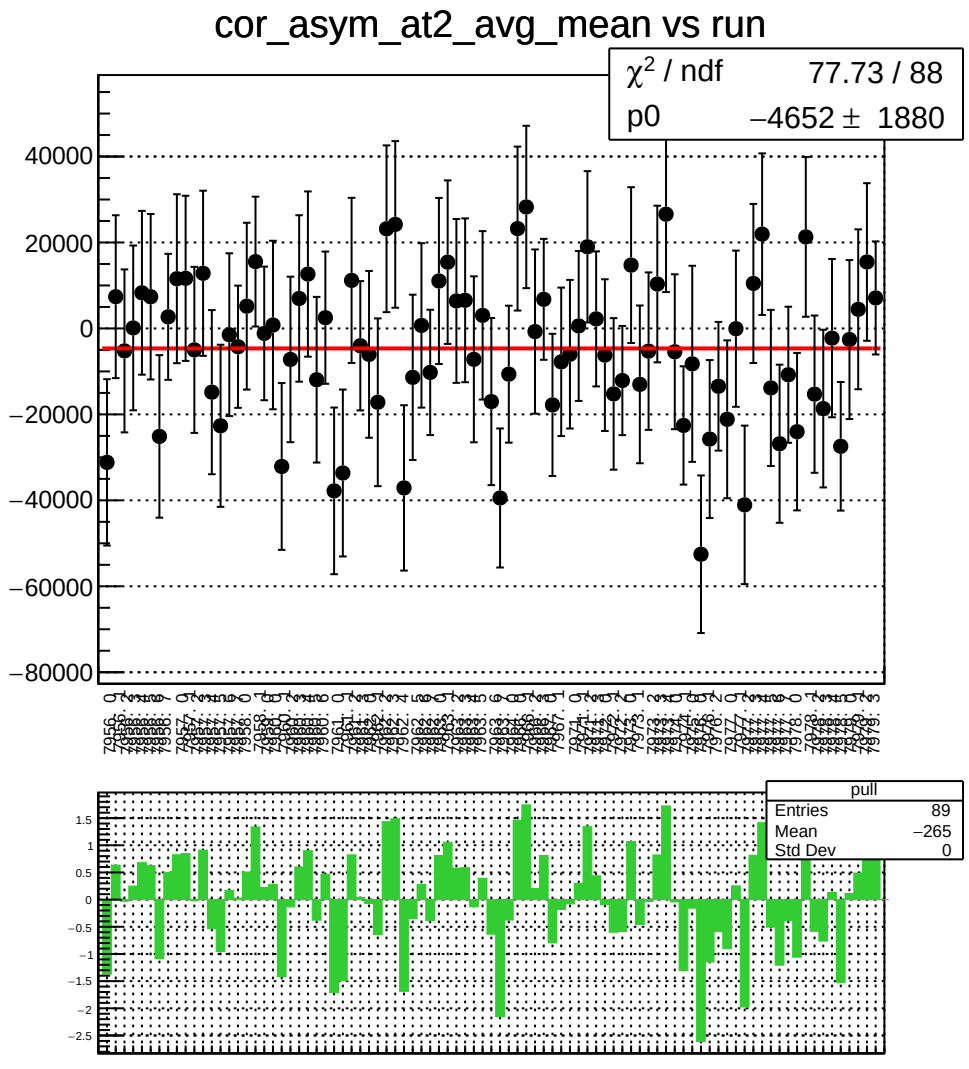

pull1D
Entries 89
Mean 0.007788
Std Dev 0.9345

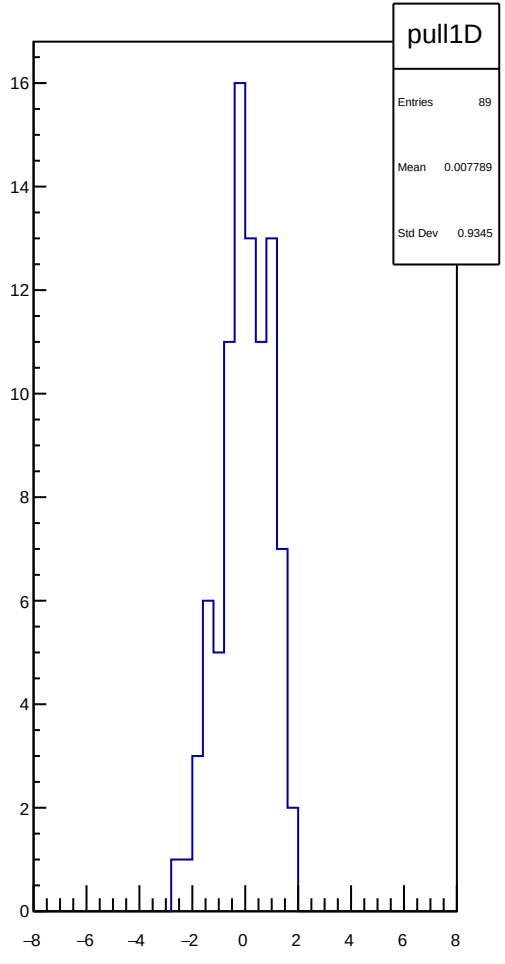

reg_asym_at2_avg_rms vs run
χ² / ndf 2163 / 88
p0 1778 ± 1.33
1900
1850
1800
1750
1700
1650
1600
1550

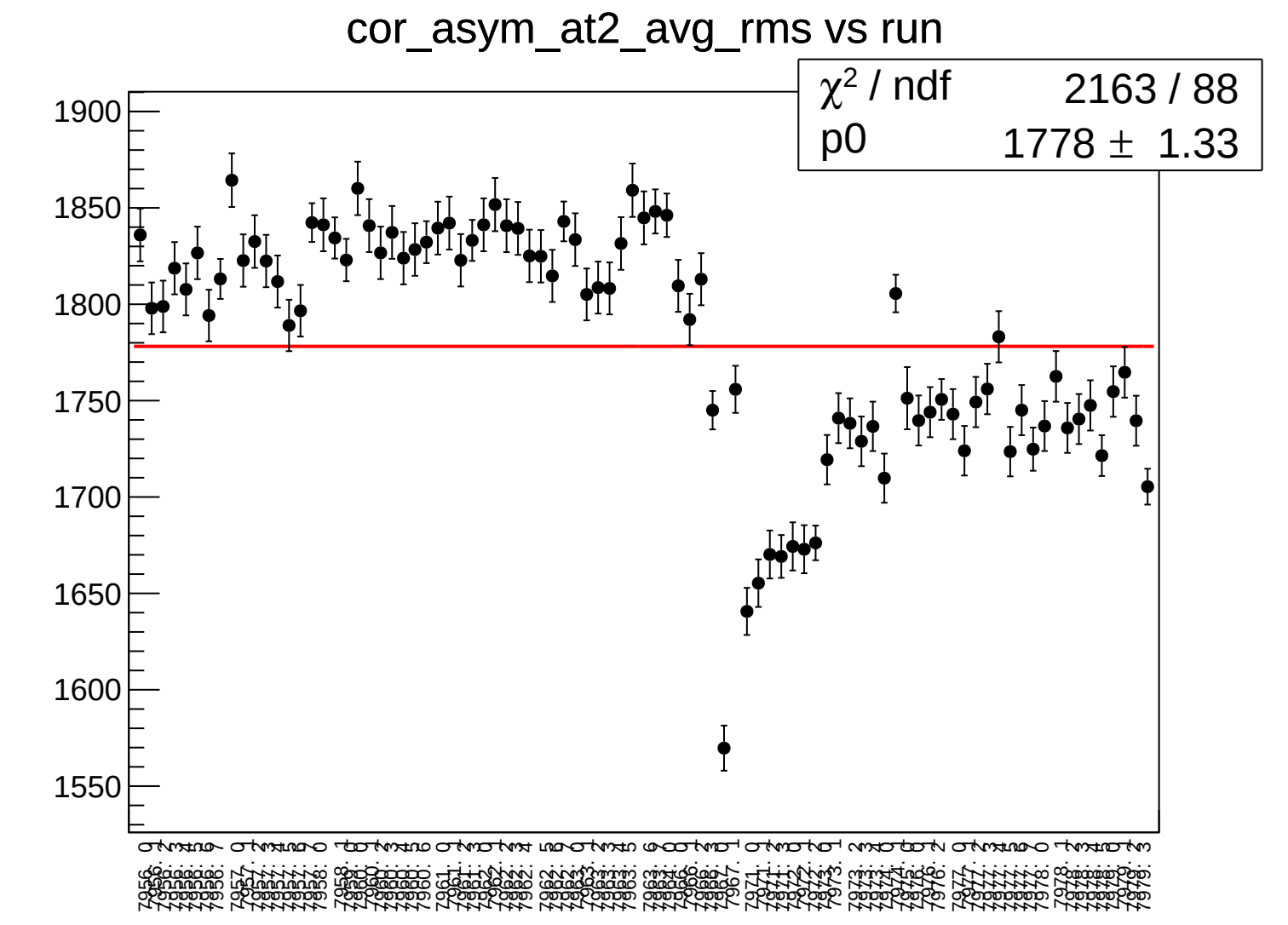

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.94 / 88
p0 7676 ± 1.198e+04
400
200
0
−200
−400
pull
Entries 89
Mean −526.3
Std Dev 0
2
1
0
−1
−2

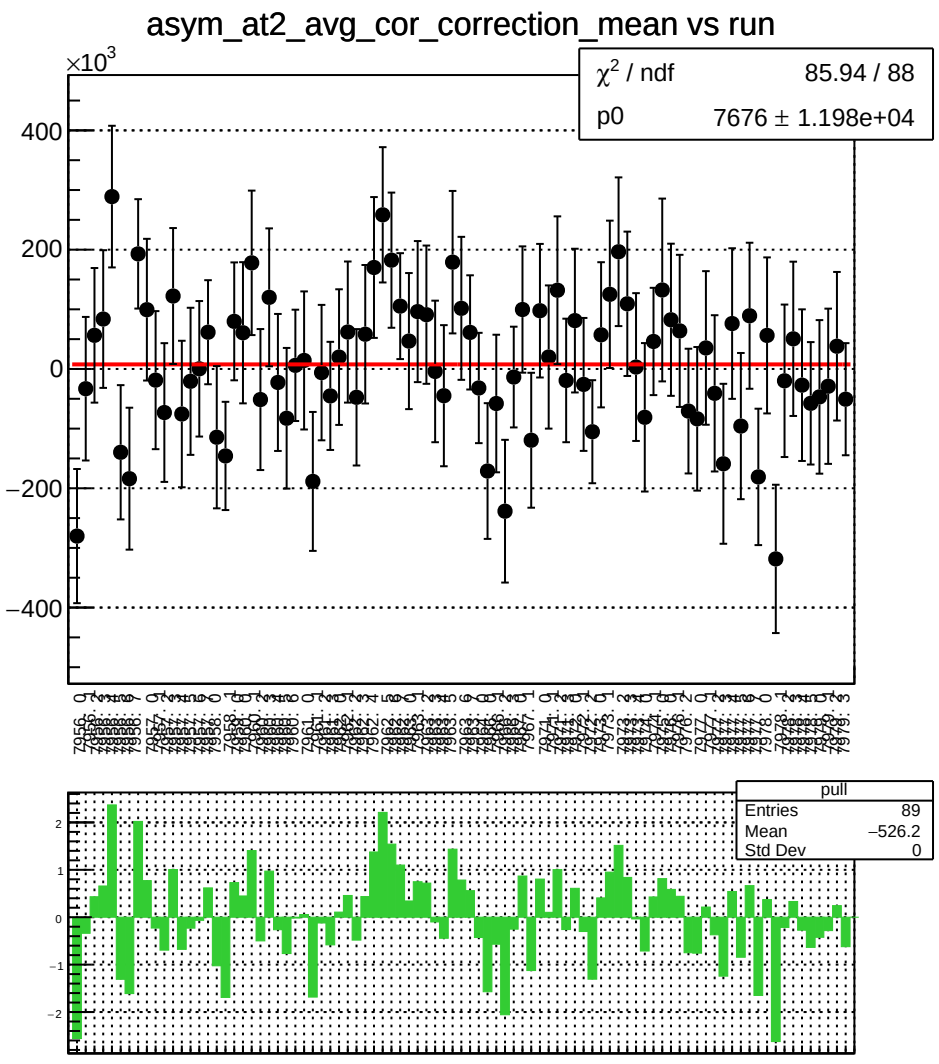

pull1D
Entries 89
Mean 0.004023
Std Dev 0.9827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

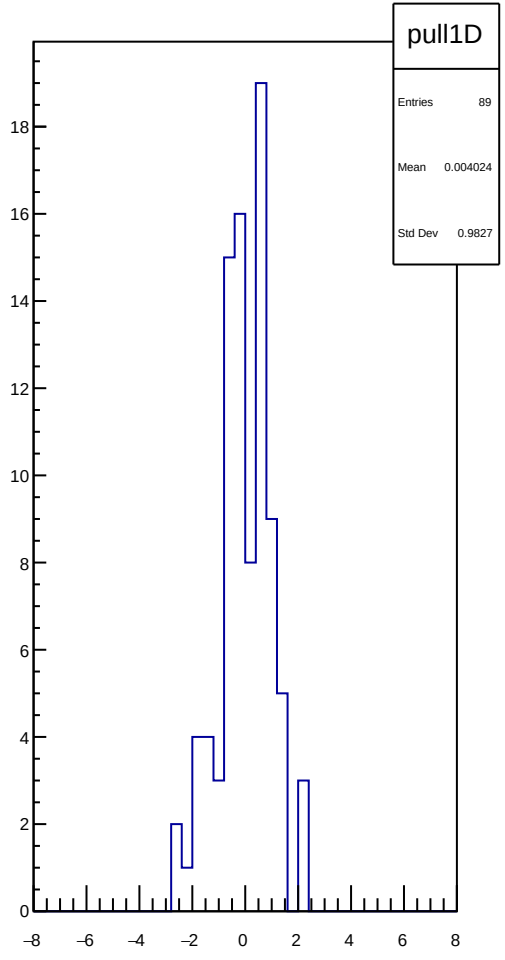

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 3833 / 88
p0 1.133e+04 ± 8.473
13000
12500
12000
11500
11000
10500
10000

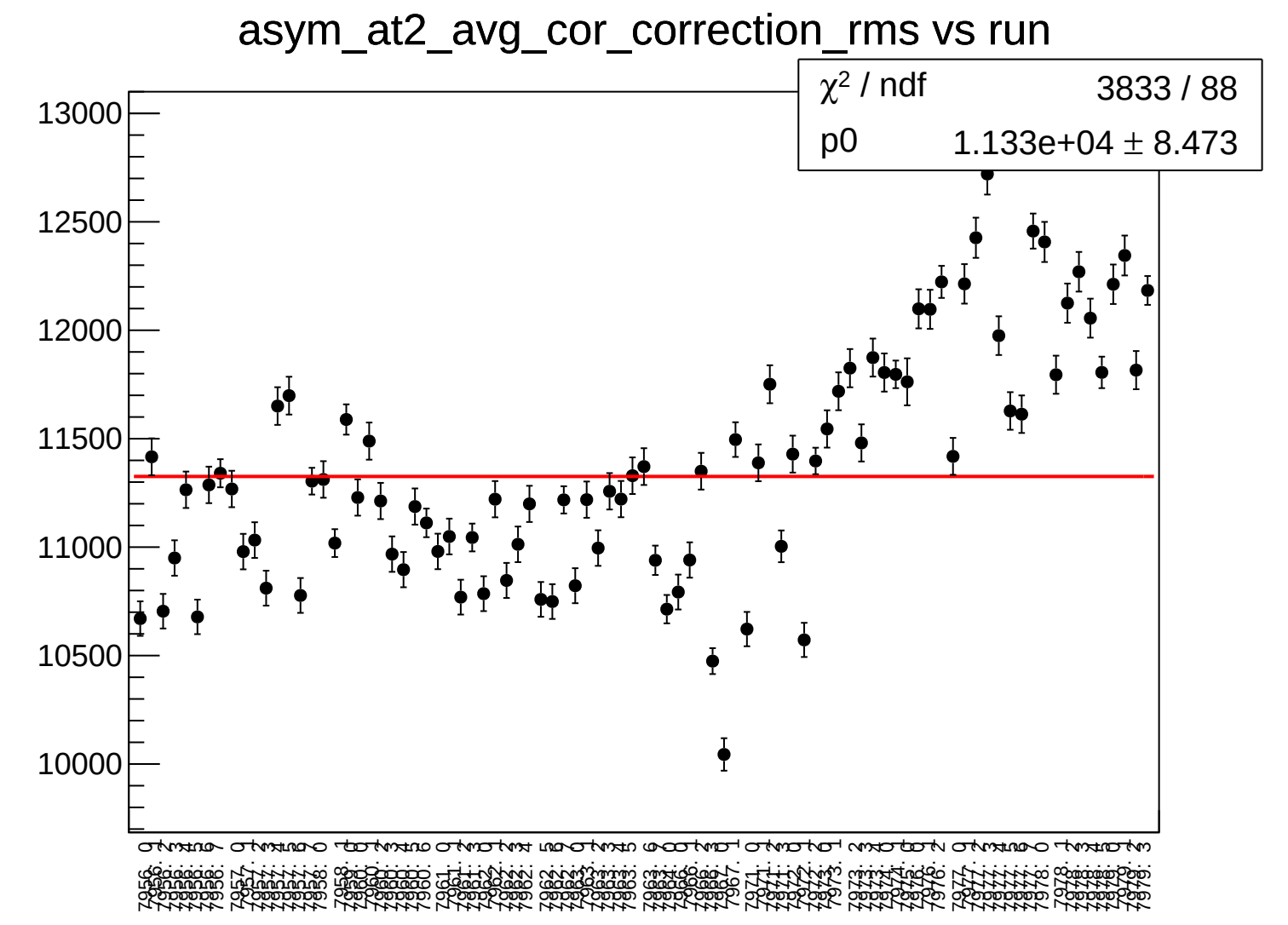

cor_asym_at2_avg_mean vs run
χ² / ndf 77.73 / 88
p0 −4652 ± 1880
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −265
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

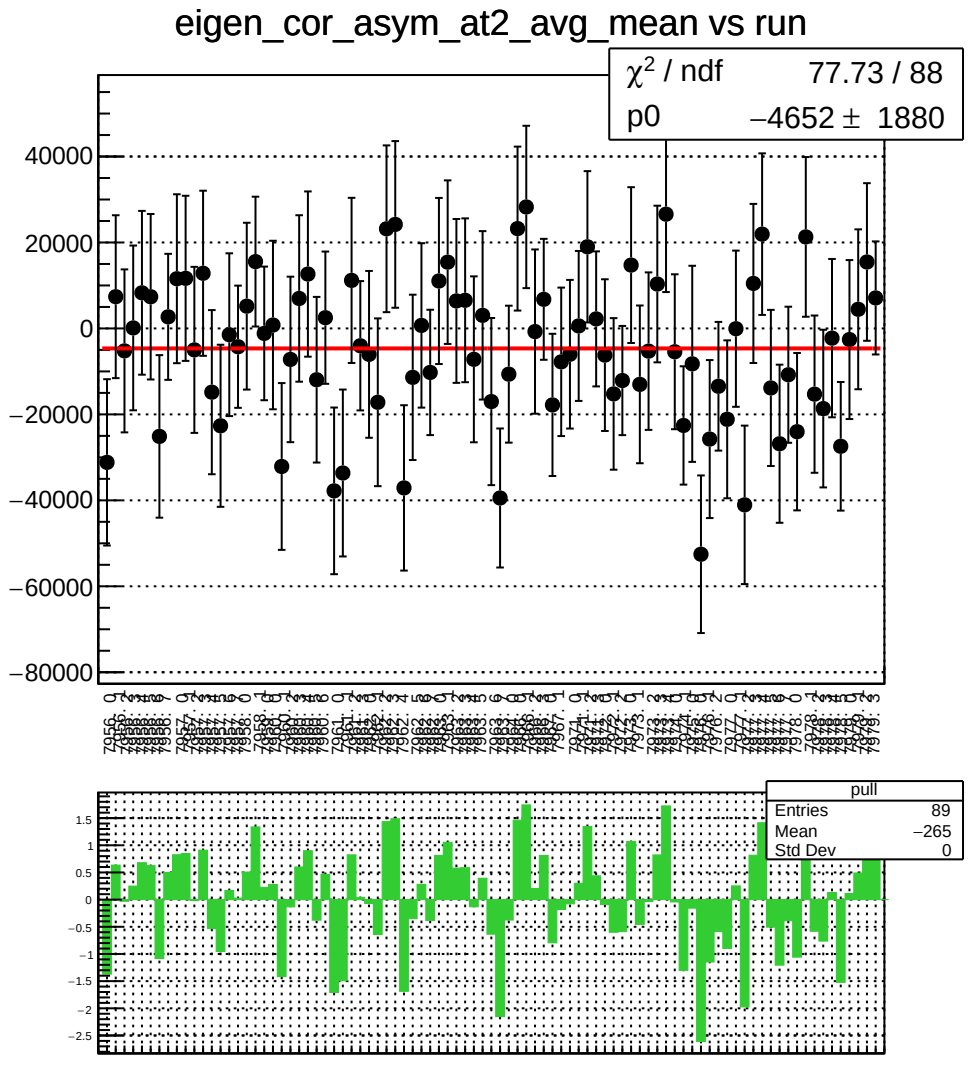

pull1D
Entries 89
Mean 0.007789
Std Dev 0.9345
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

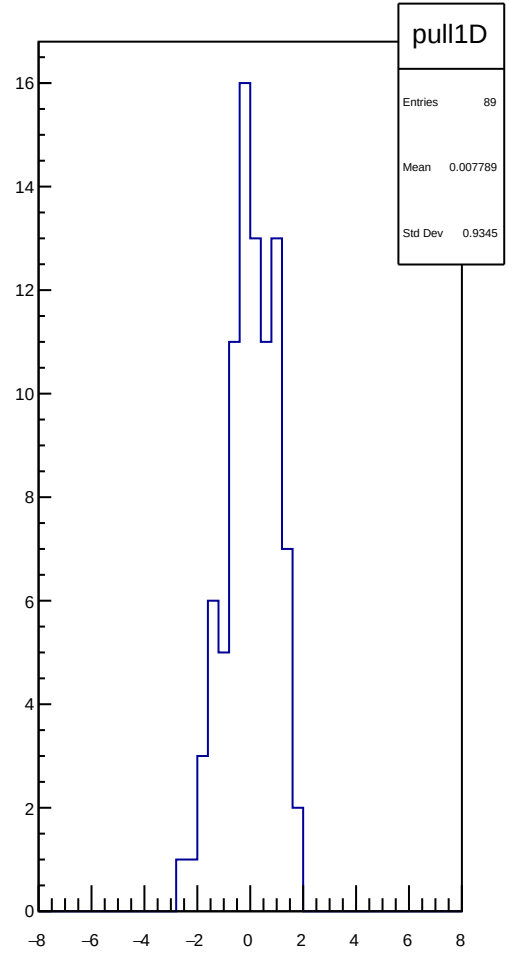

cor_asym_at2_avg_rms vs run
χ² / ndf 2163 / 88
p0 1778 ± 1.33
1900
1850
1800
1750
1700
1650
1600
1550

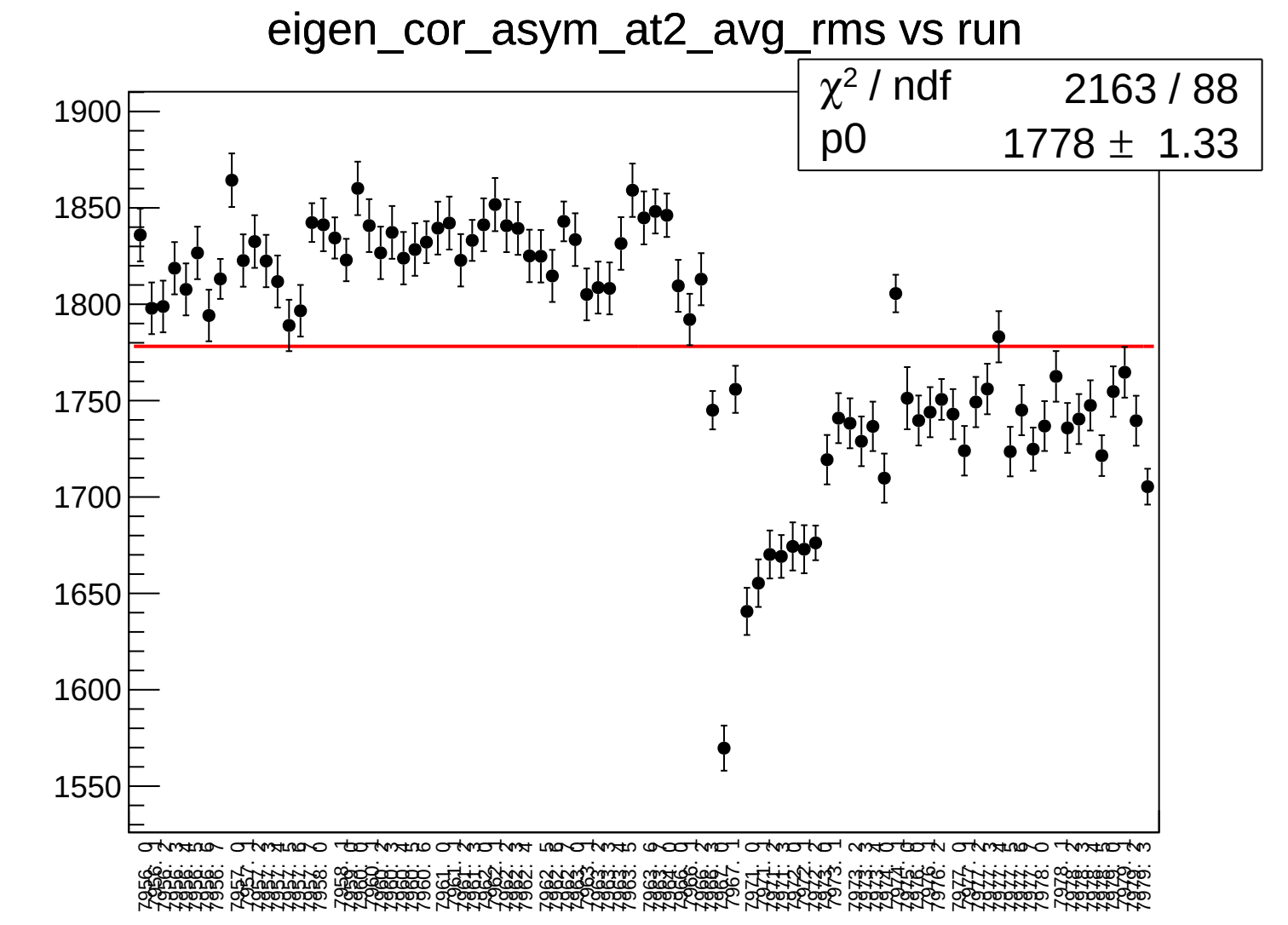

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.94 / 88
p0 7676 ± 1.198e+04
400
200
0
−200
−400
pull
Entries 89
Mean −526.2
Std Dev 0
2
1
0
−1
−2

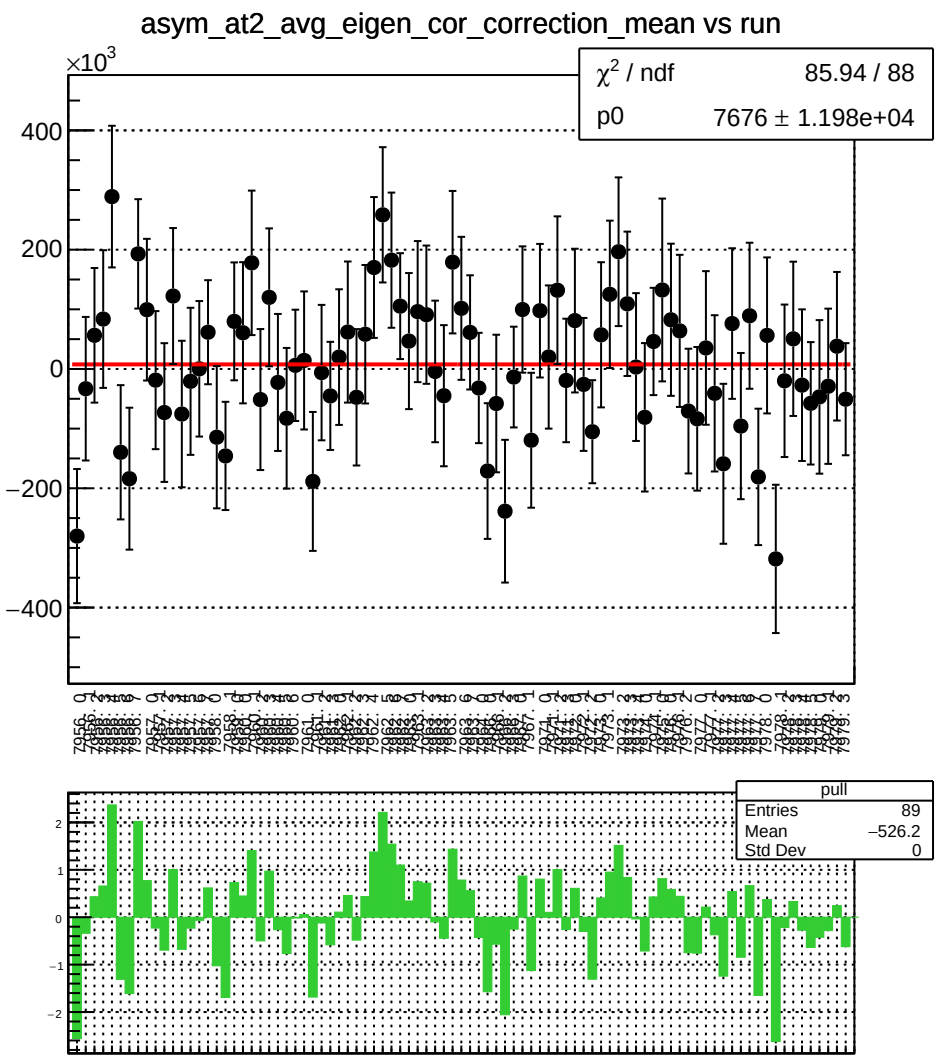

pull1D
Entries 89
Mean 0.004024
Std Dev 0.9827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

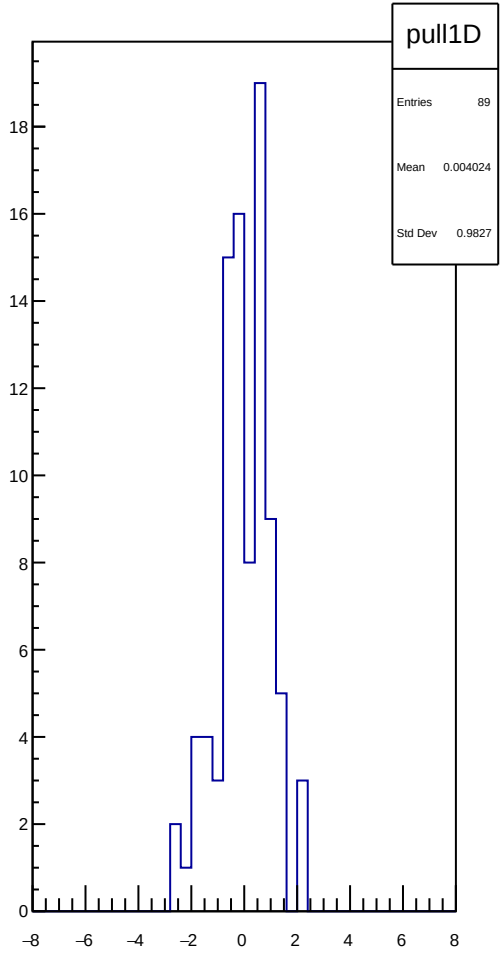

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 3833 / 88
p0 1.133e+04 ± 8.473
13000
12500
12000
11500
11000
10500
10000

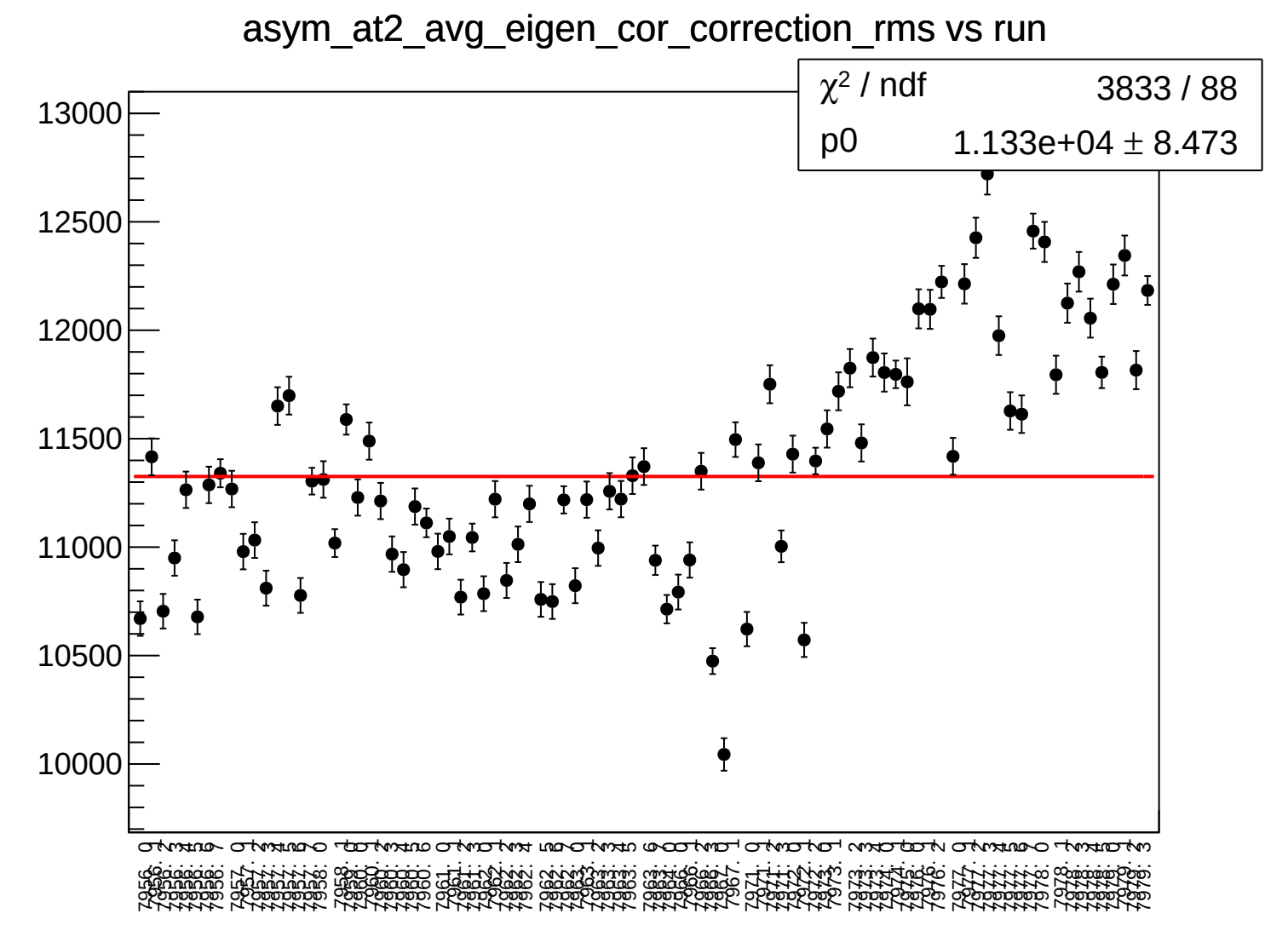

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 77.73 / 88
p0 −4652 ± 1880
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −265
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

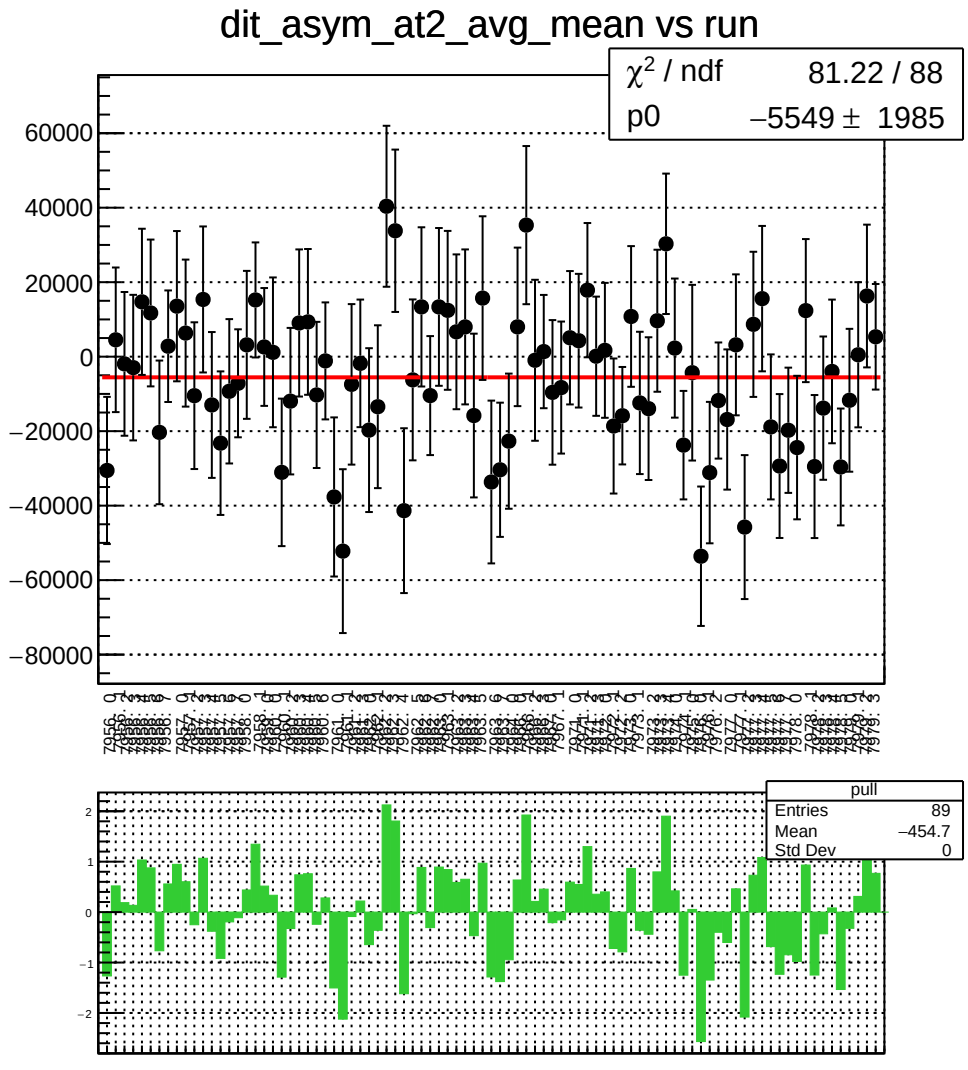

pull1D
Entries 89
Mean 0.007789
Std Dev 0.9345
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

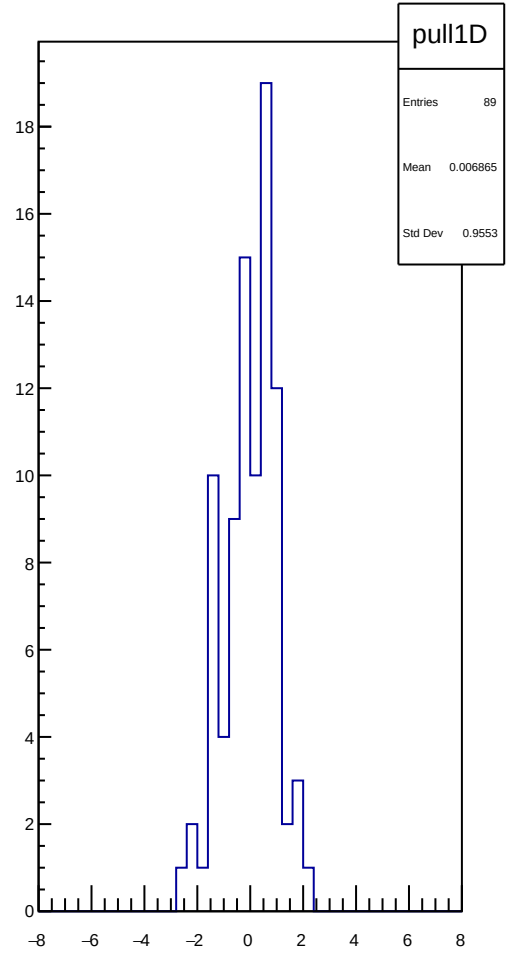

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 2163 / 88
p0 1778 ± 1.33
1900
1850
1800
1750
1700
1650
1600
1550

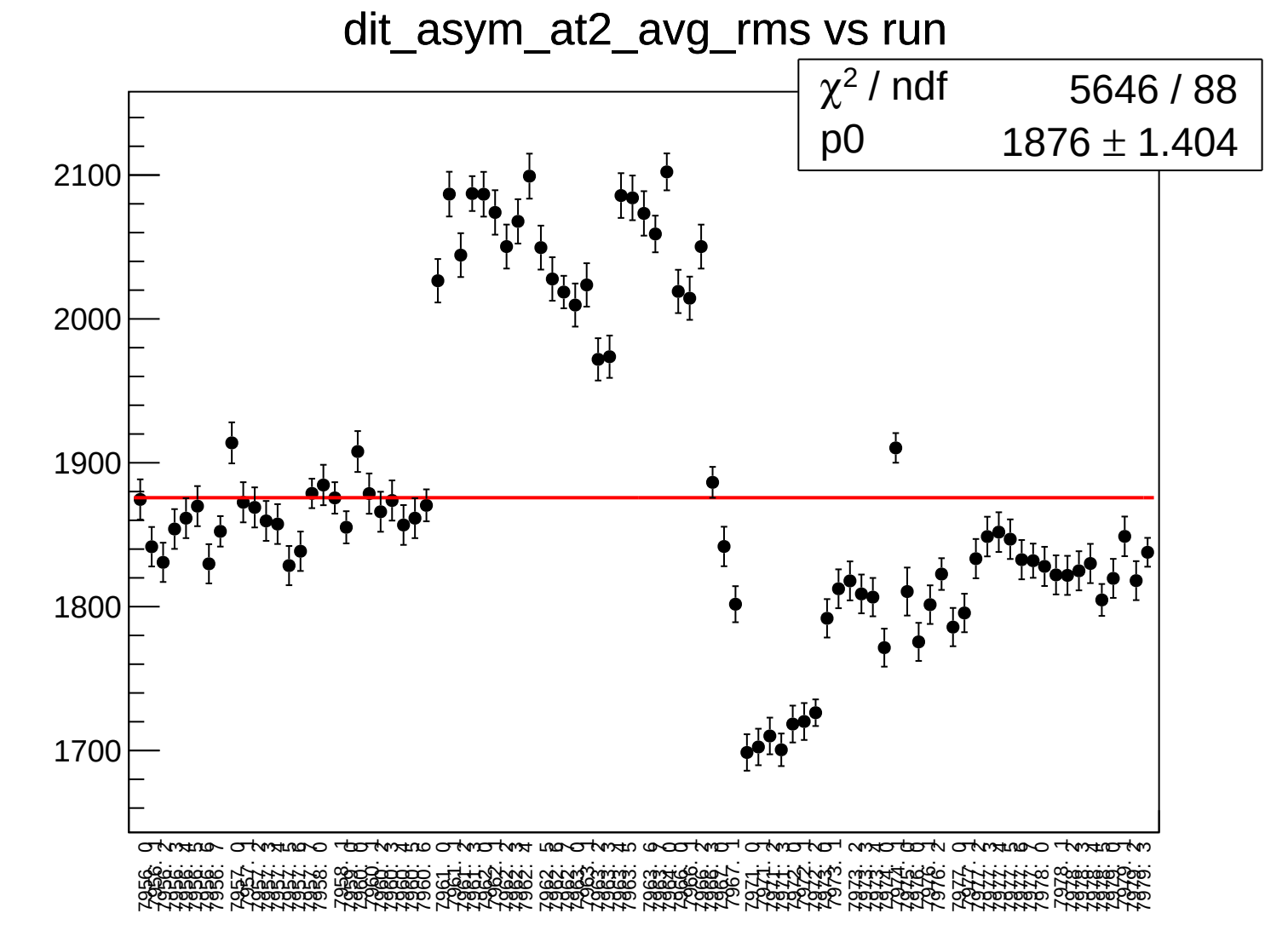

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.94 / 88
p0 7676 ± 1.198e+04
400
200
0
−200
−400
pull
Entries 89
Mean −526.2
Std Dev 0
2
1
0
−1
−2

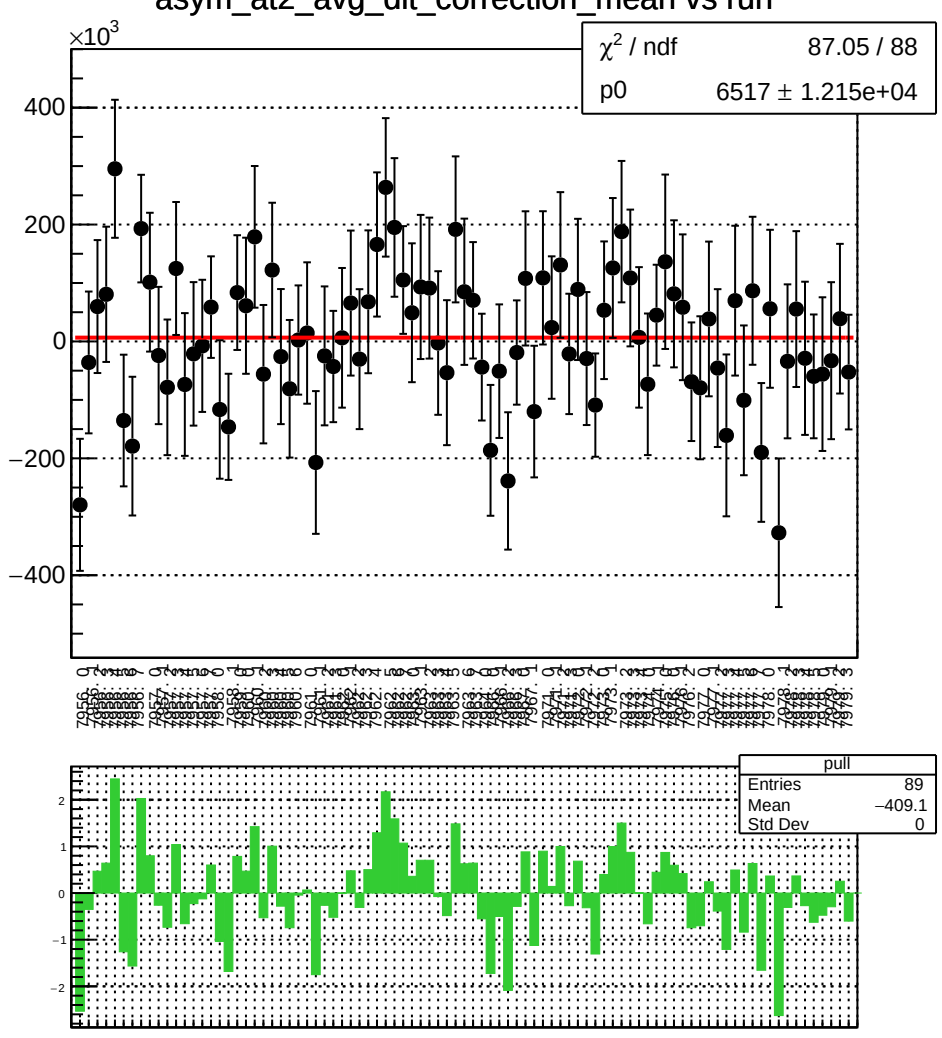

pull1D
Entries 89
Mean 0.004024
Std Dev 0.9827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

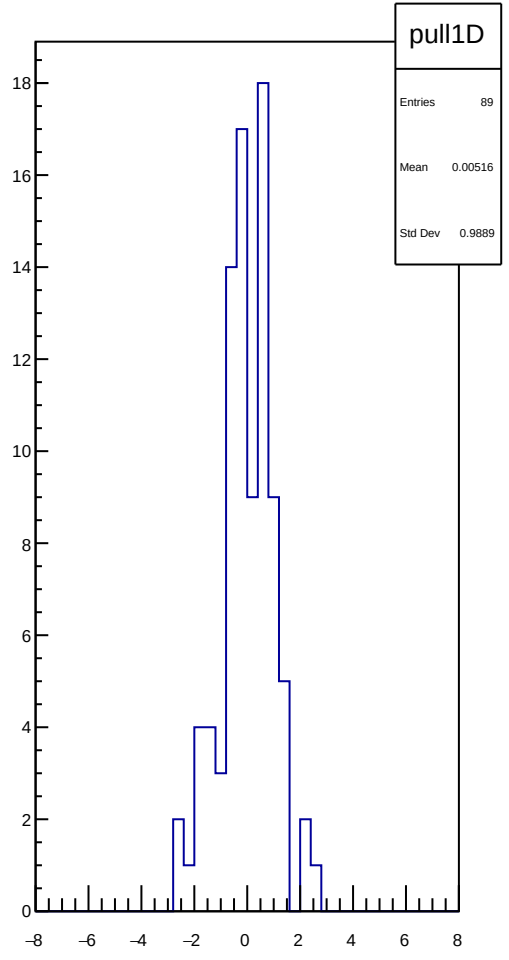

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3833 / 88
p0 1.133e+04 ± 8.473
13000
12500
12000
11500
11000
10500
10000

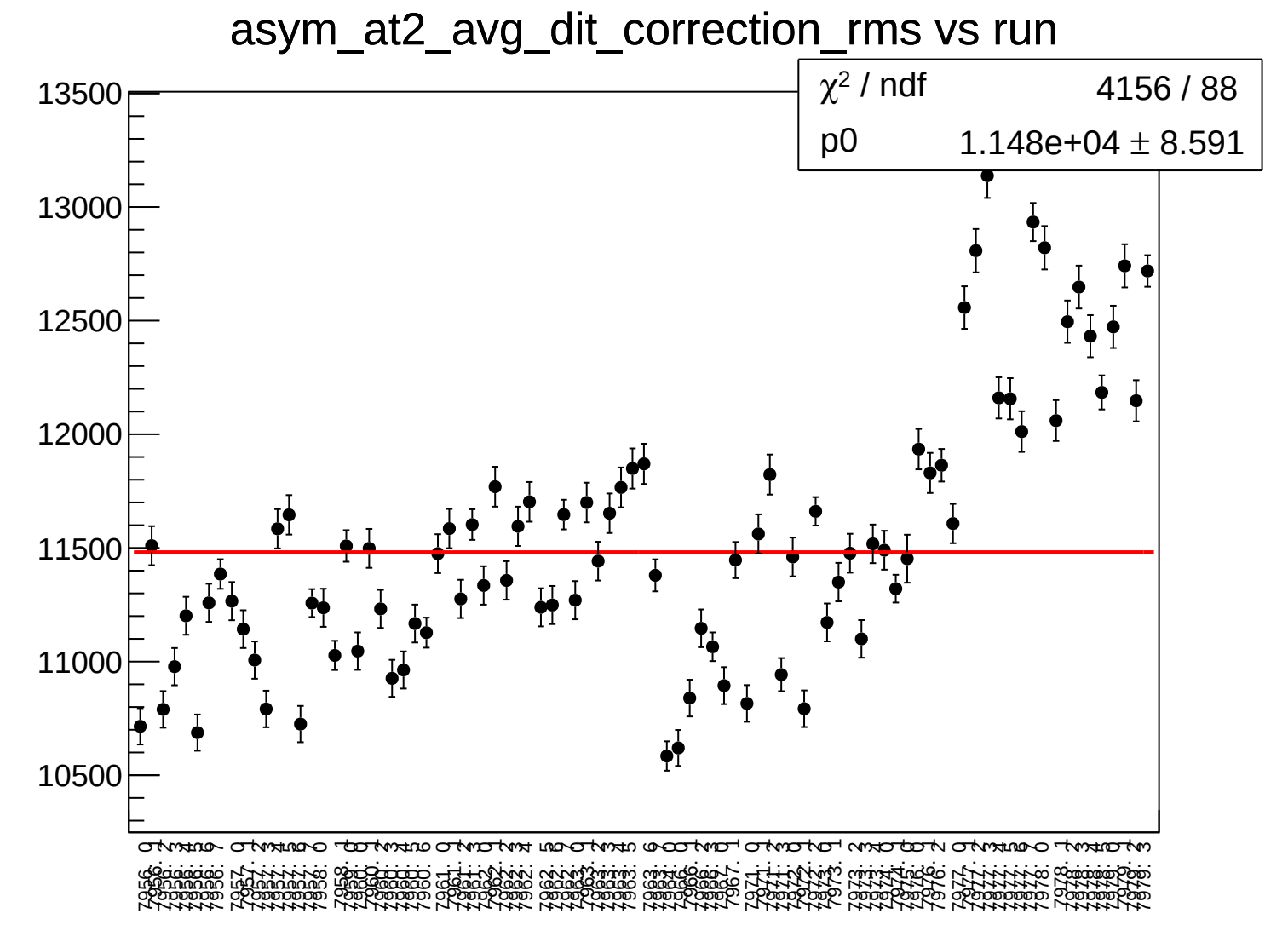

dit_asym_at2_avg_mean vs run
χ² / ndf 81.22 / 88
p0 −5549 ± 1985
pull
Entries 89
Mean −454.7
Std Dev 0

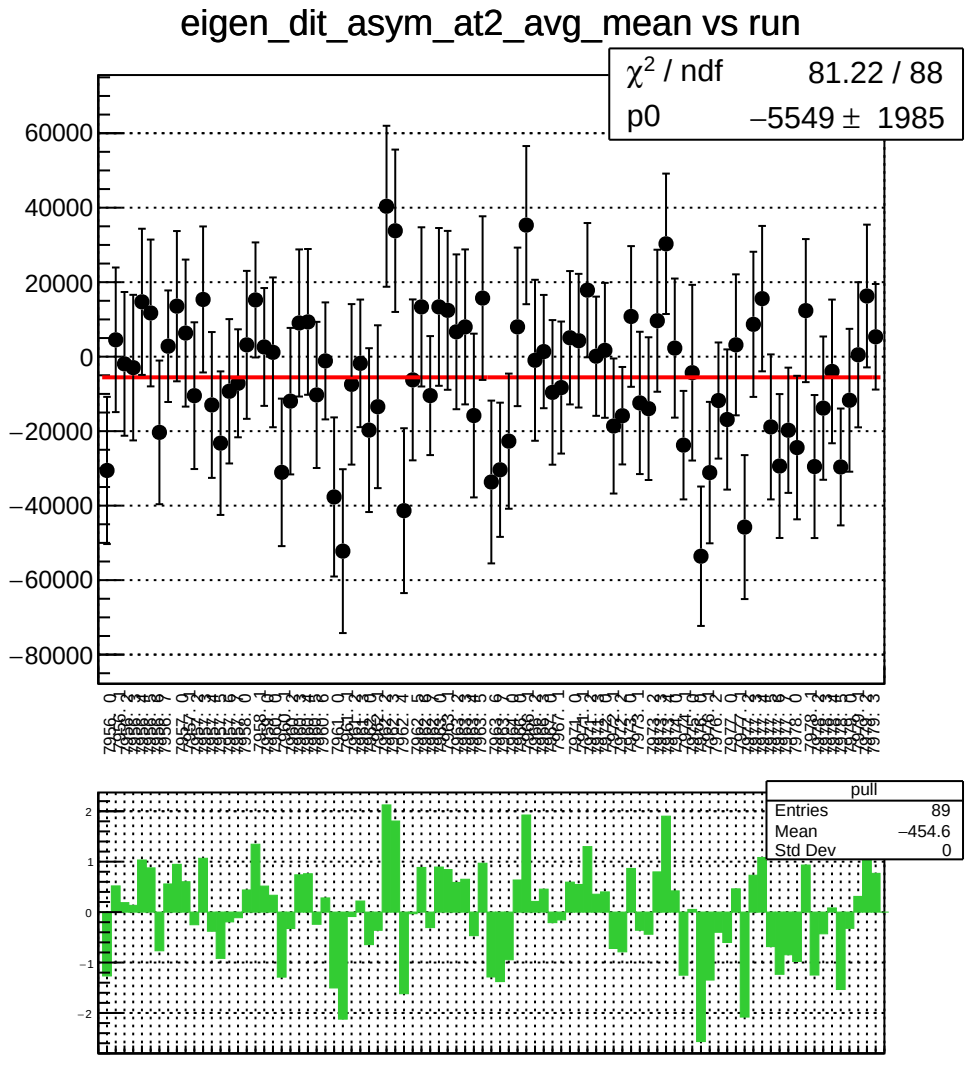

pull1D
Entries 89
Mean 0.006865
Std Dev 0.9553

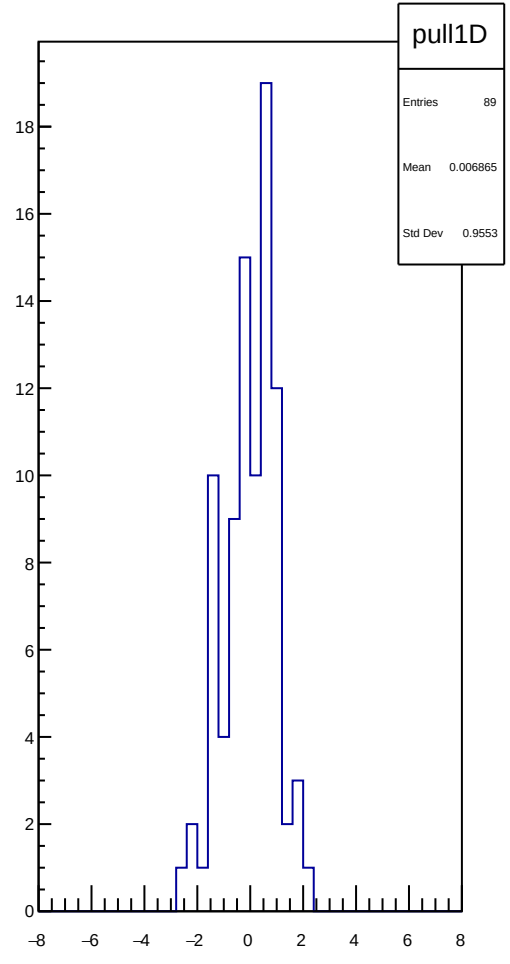

dit_asym_at2_avg_rms vs run
χ² / ndf 5646 / 88
p0 1876 ± 1.404
2100
2000
1900
1800
1700

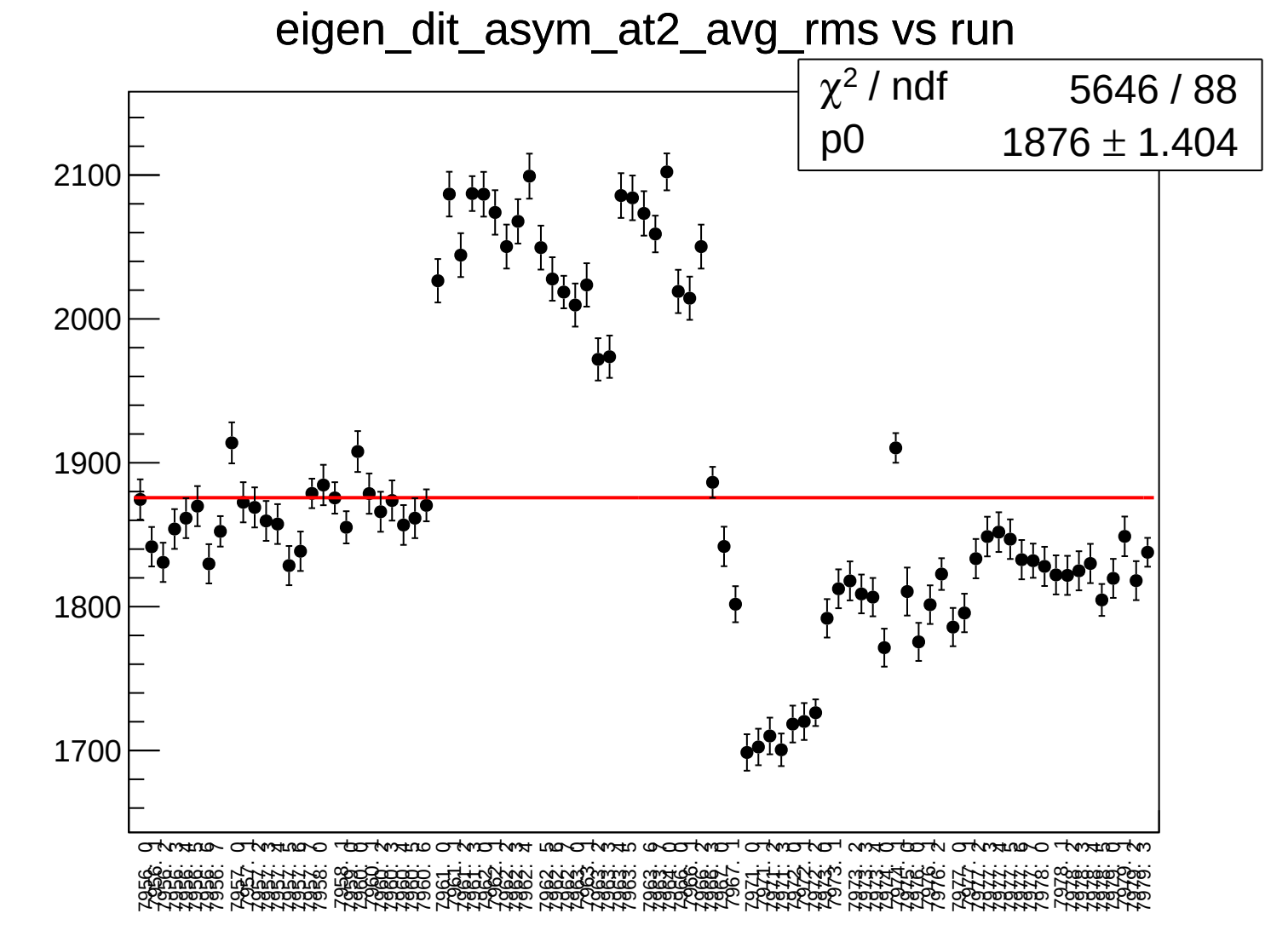

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.05 / 88
p0 6517 ± 1.215e+04
400
200
0
−200
−400
pull
Entries 89
Mean −409.1
Std Dev 0
2
1
0
−1
−2

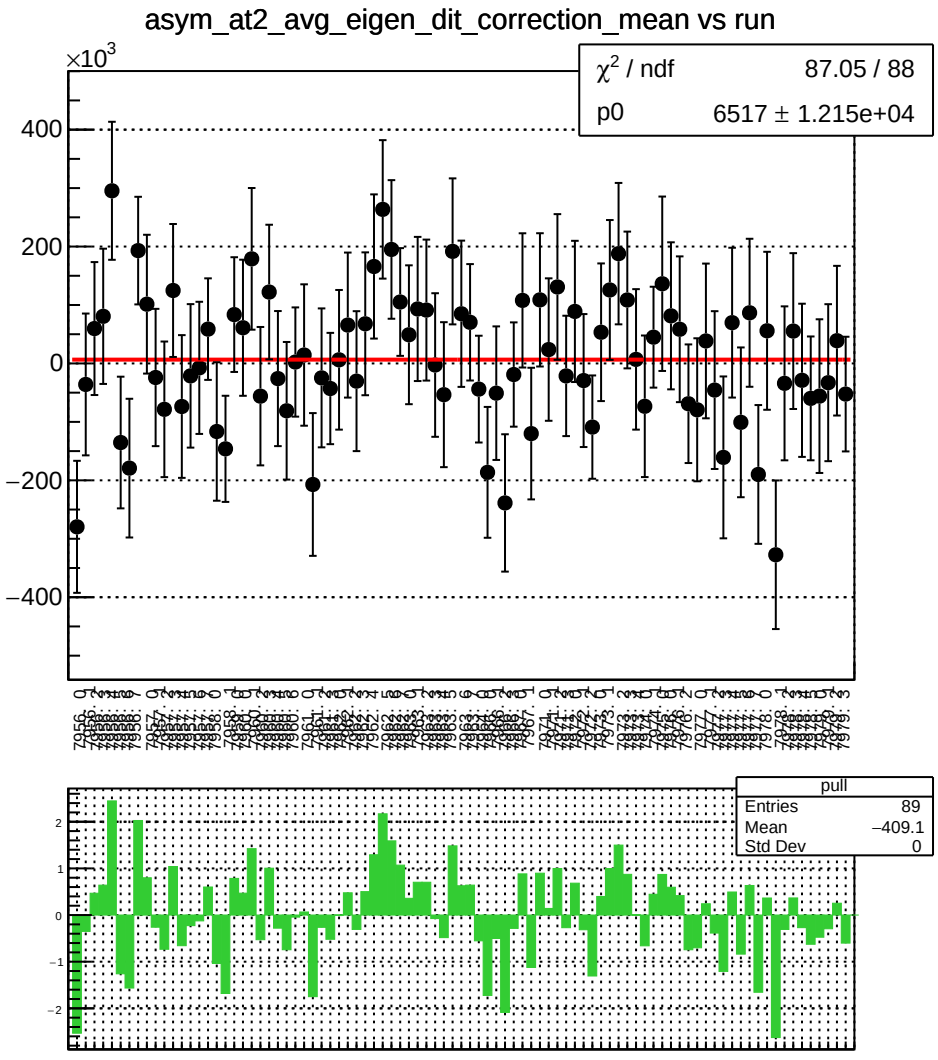

pull1D
Entries 89
Mean 0.00516
Std Dev 0.9889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

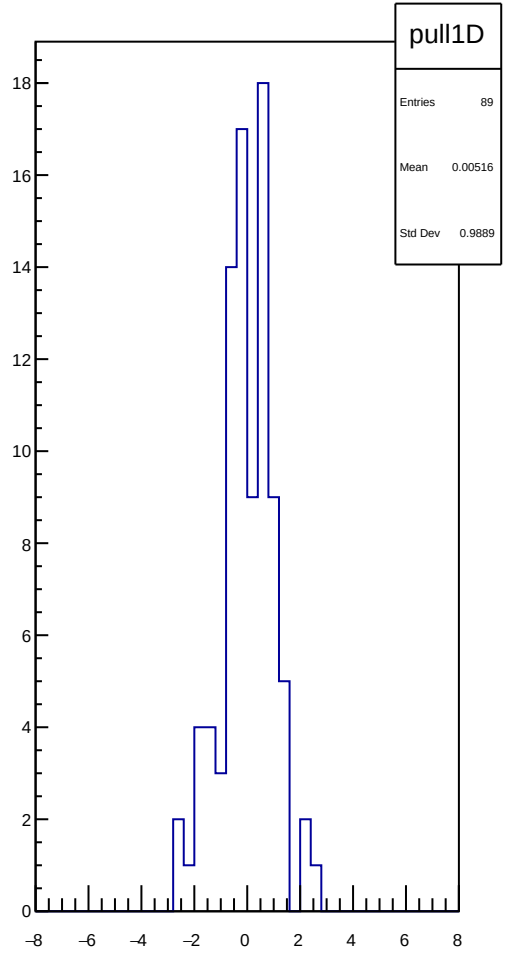

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 4156 / 88
p0 1.148e+04 ± 8.591
13500
13000
12500
12000
11500
11000
10500

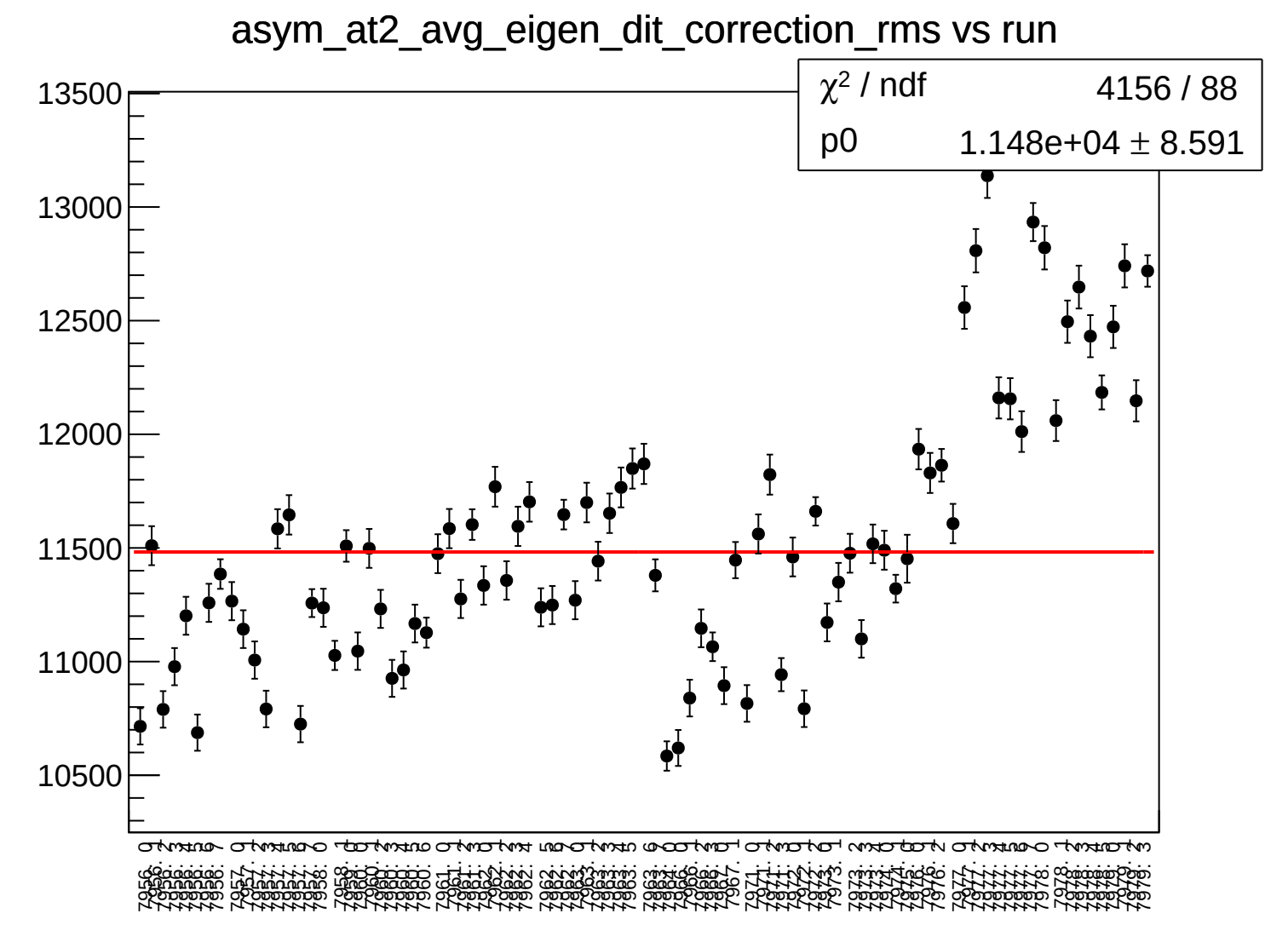

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 81.22 / 88
p0 −5549 ± 1985
pull
Entries 89
Mean −454.6
Std Dev 0

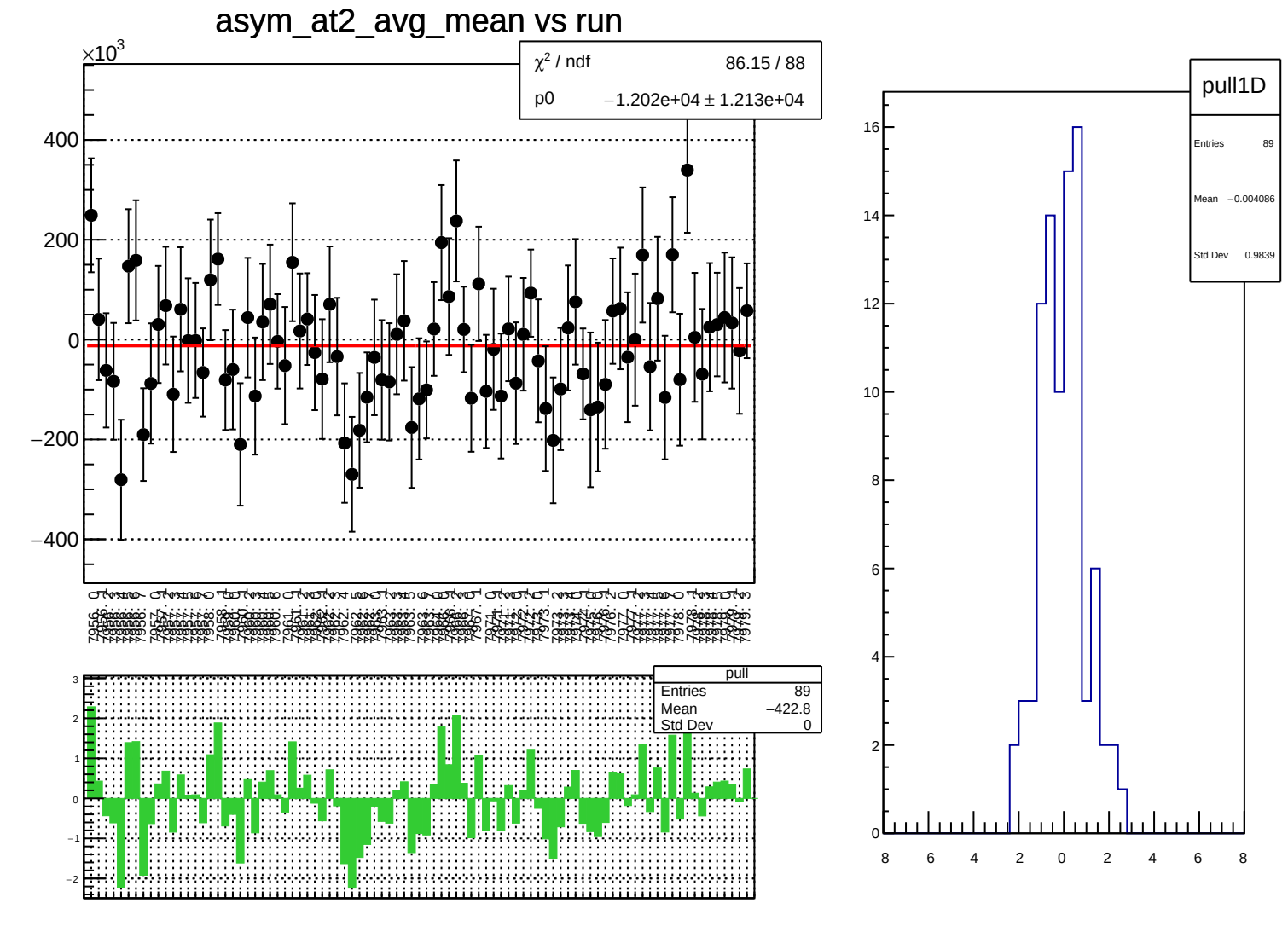

pull1D
Entries 89
Mean 0.006865
Std Dev 0.9553

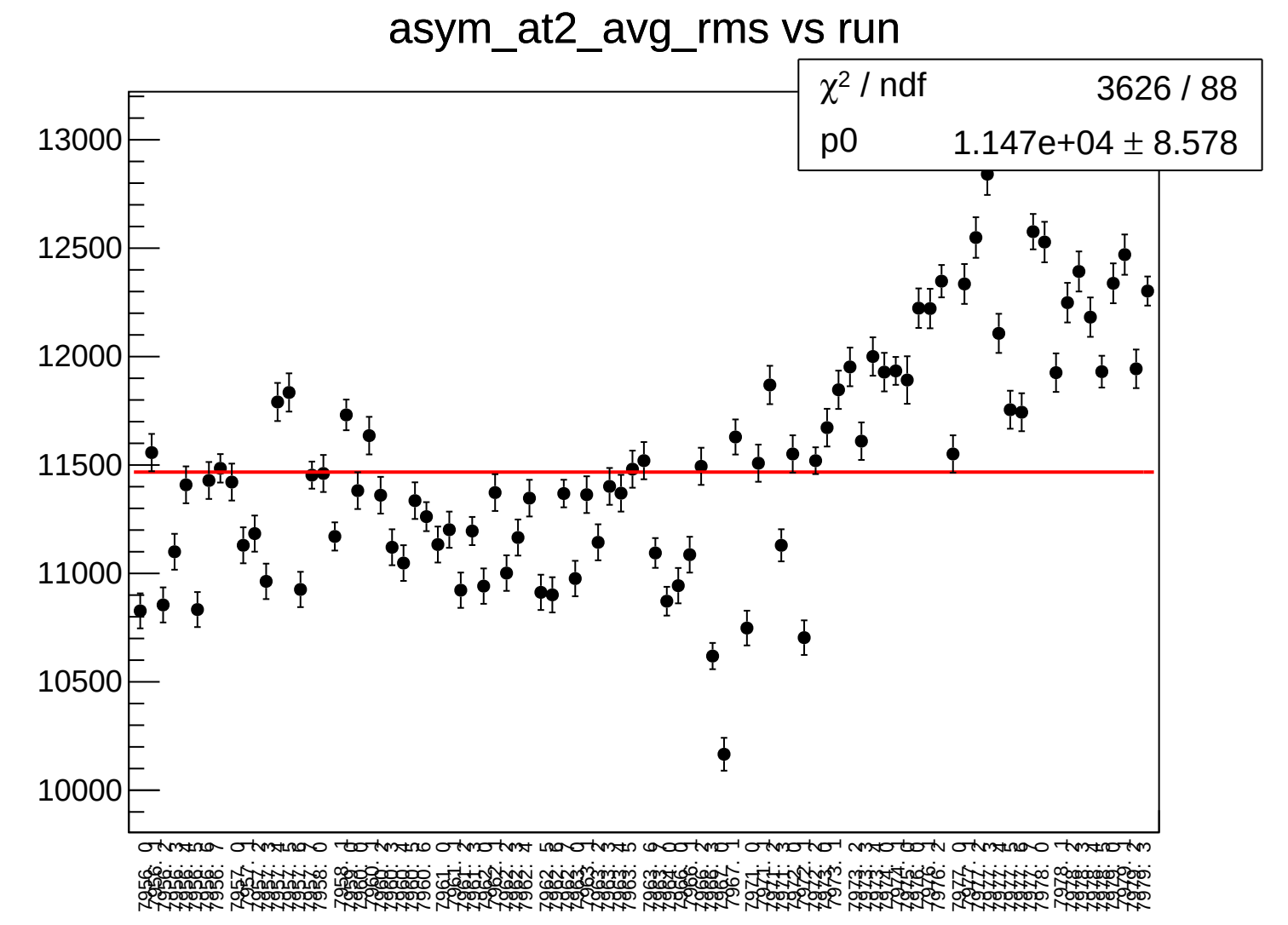

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 5646 / 88
p0 1876 ± 1.404
2100
2000
1900
1800
1700

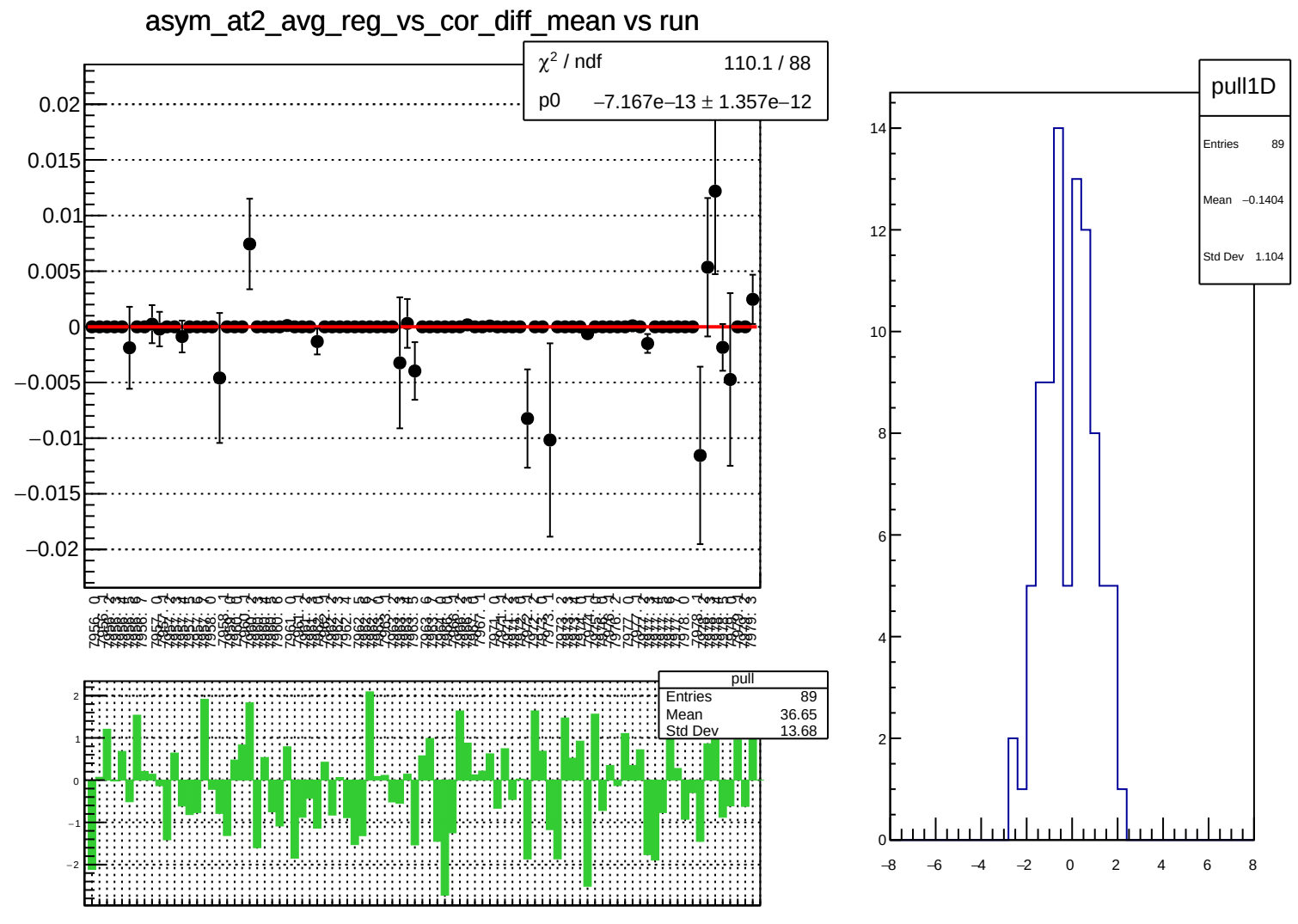

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.05 / 88
p0 6517 ± 1.215e+04
400
200
0
−200
−400
pull
Entries 89
Mean −409.1
Std Dev 0
2
1
0
−1
−2

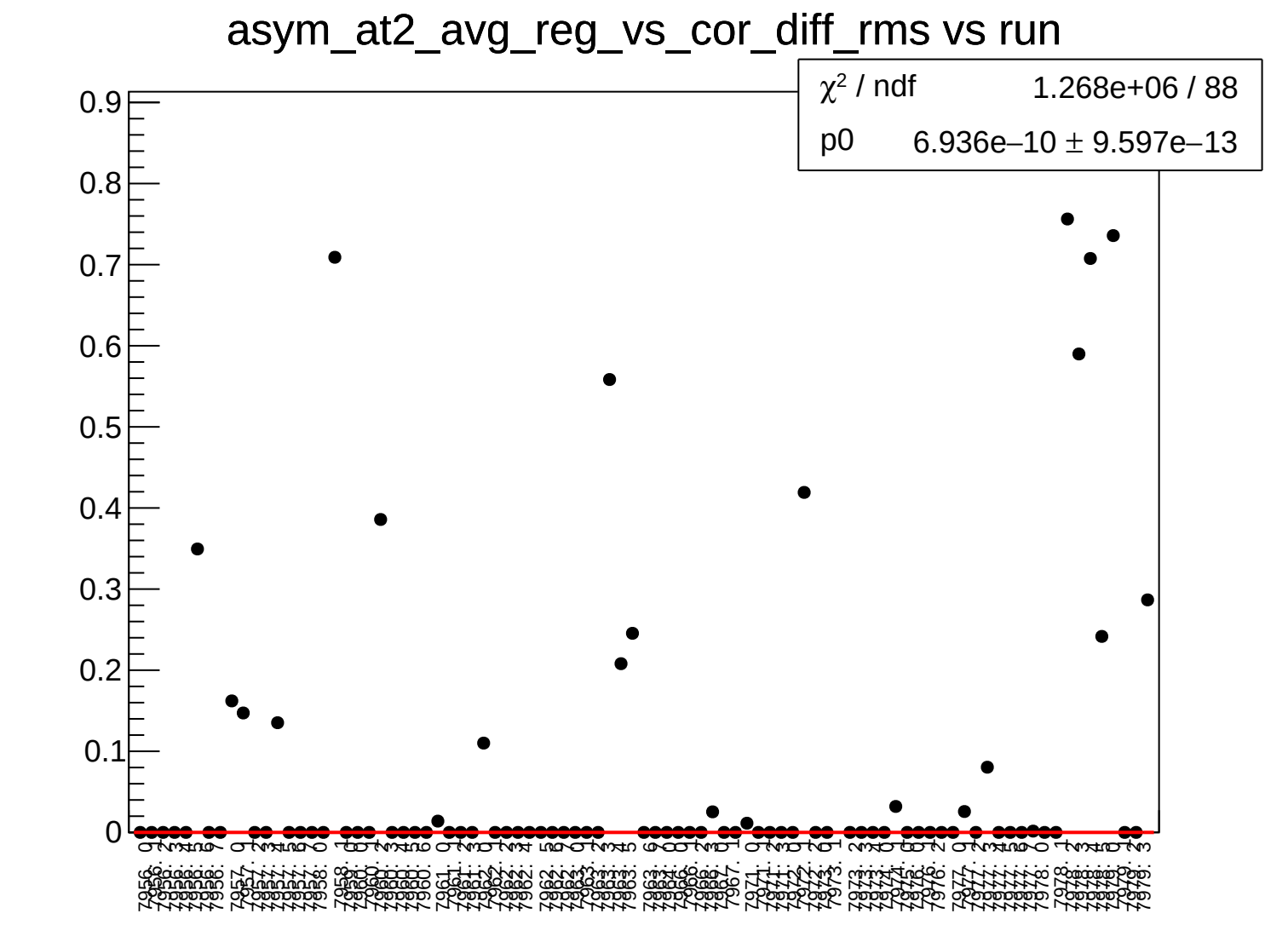

pull1D
Entries 89
Mean 0.00516
Std Dev 0.9889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

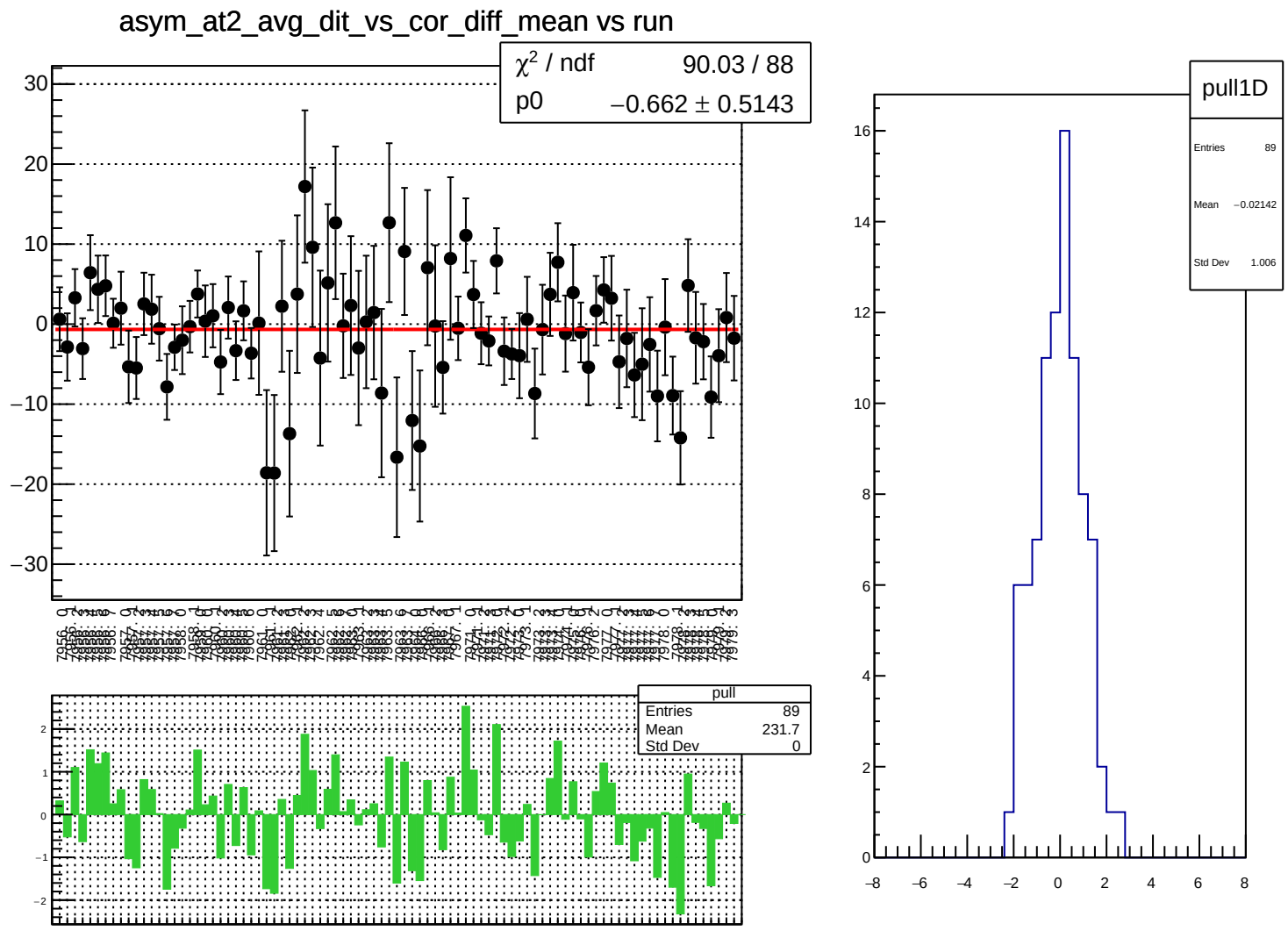

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4156 / 88
p0 1.148e+04 ± 8.591
13500
13000
12500
12000
11500
11000
10500

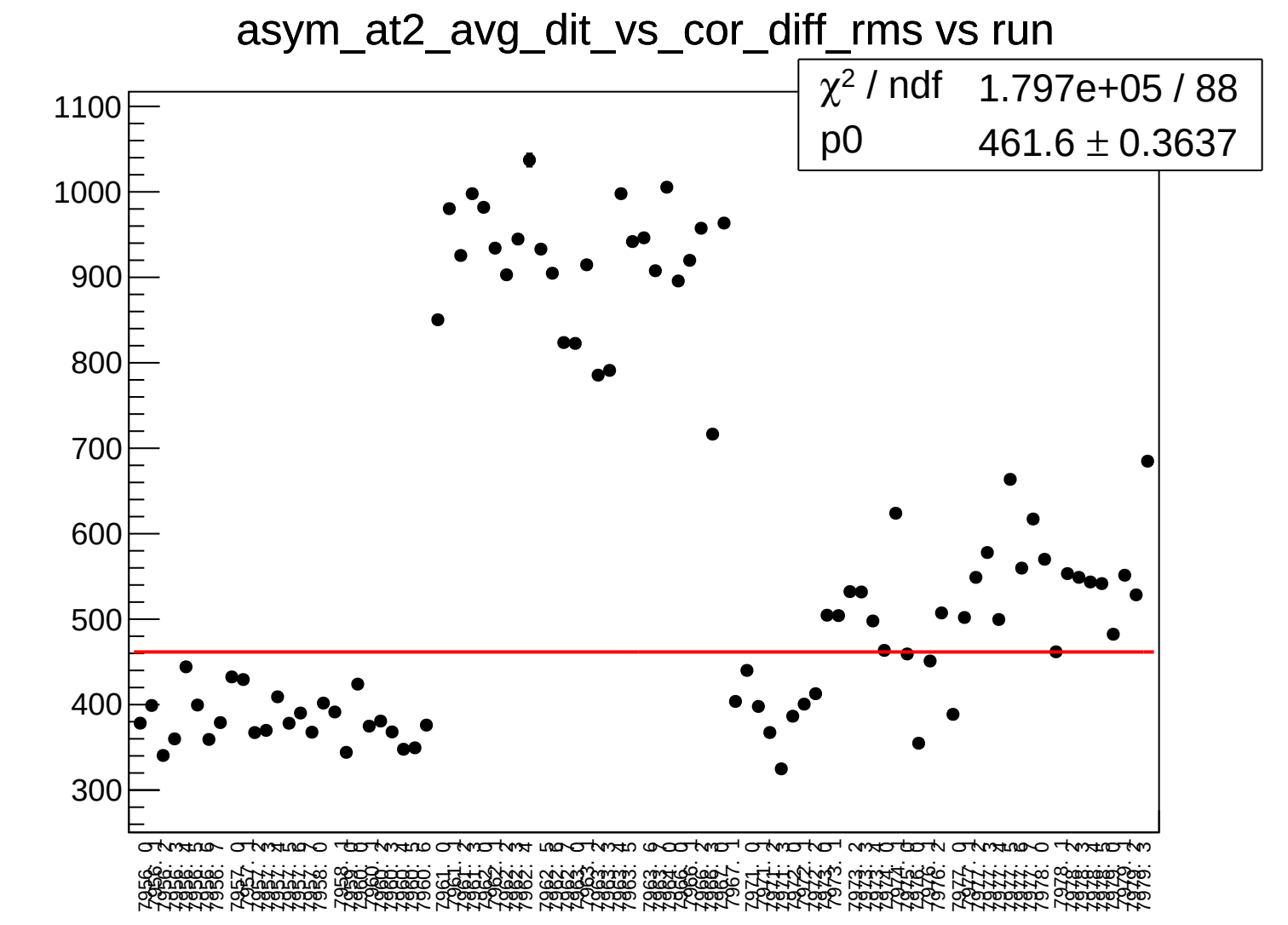

asym_at2_avg_mean vs run
×10^3
χ² / ndf 86.15 / 88
p0 −1.202e+04 ± 1.213e+04
400
200
0
−200
−400
pull
Entries 89
Mean −422.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.004086
Std Dev 0.9839
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

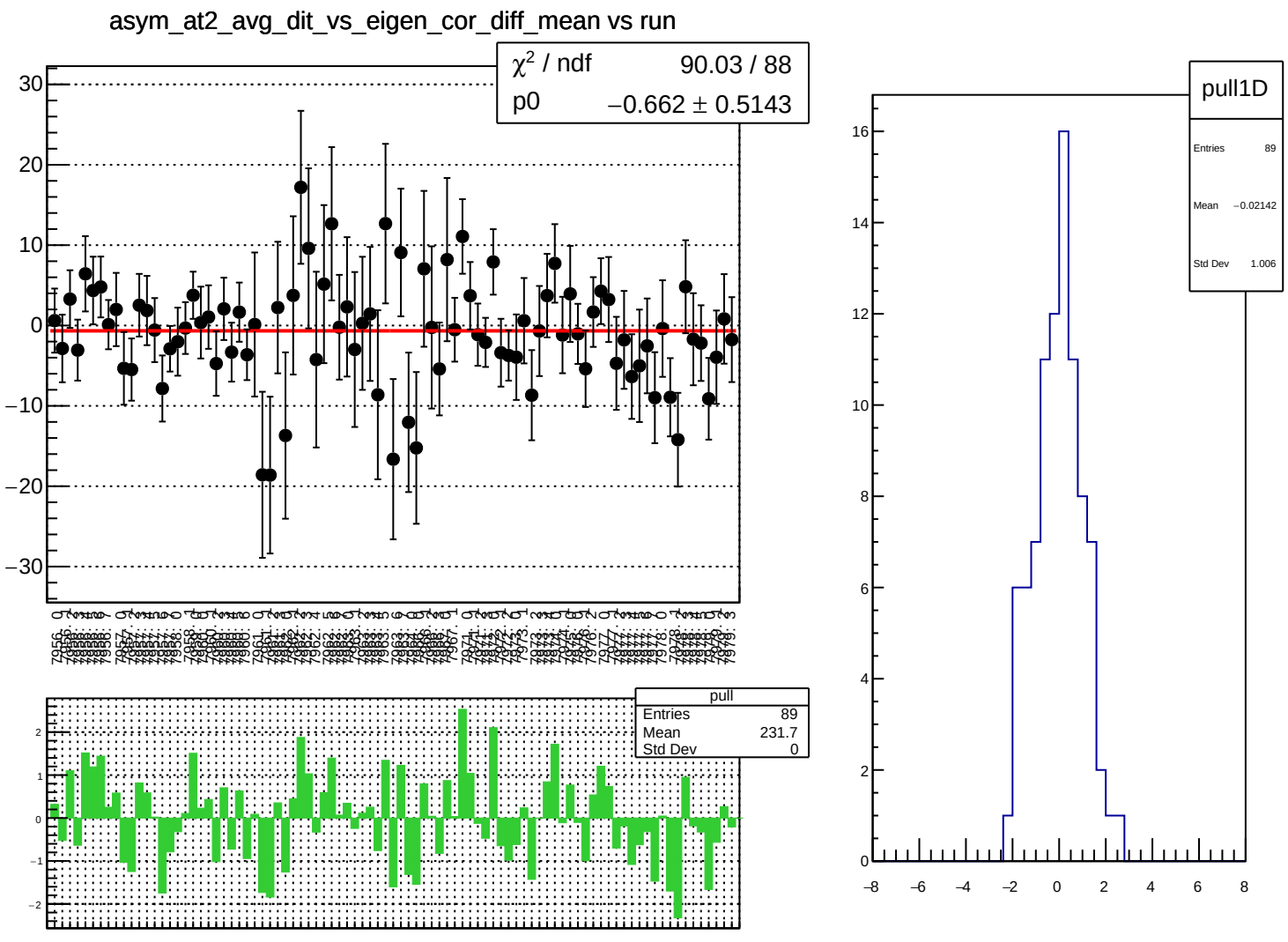

asym_at2_avg_rms vs run
χ² / ndf 3626 / 88
p0 1.147e+04 ± 8.578
13000
12500
12000
11500
11000
10500
10000

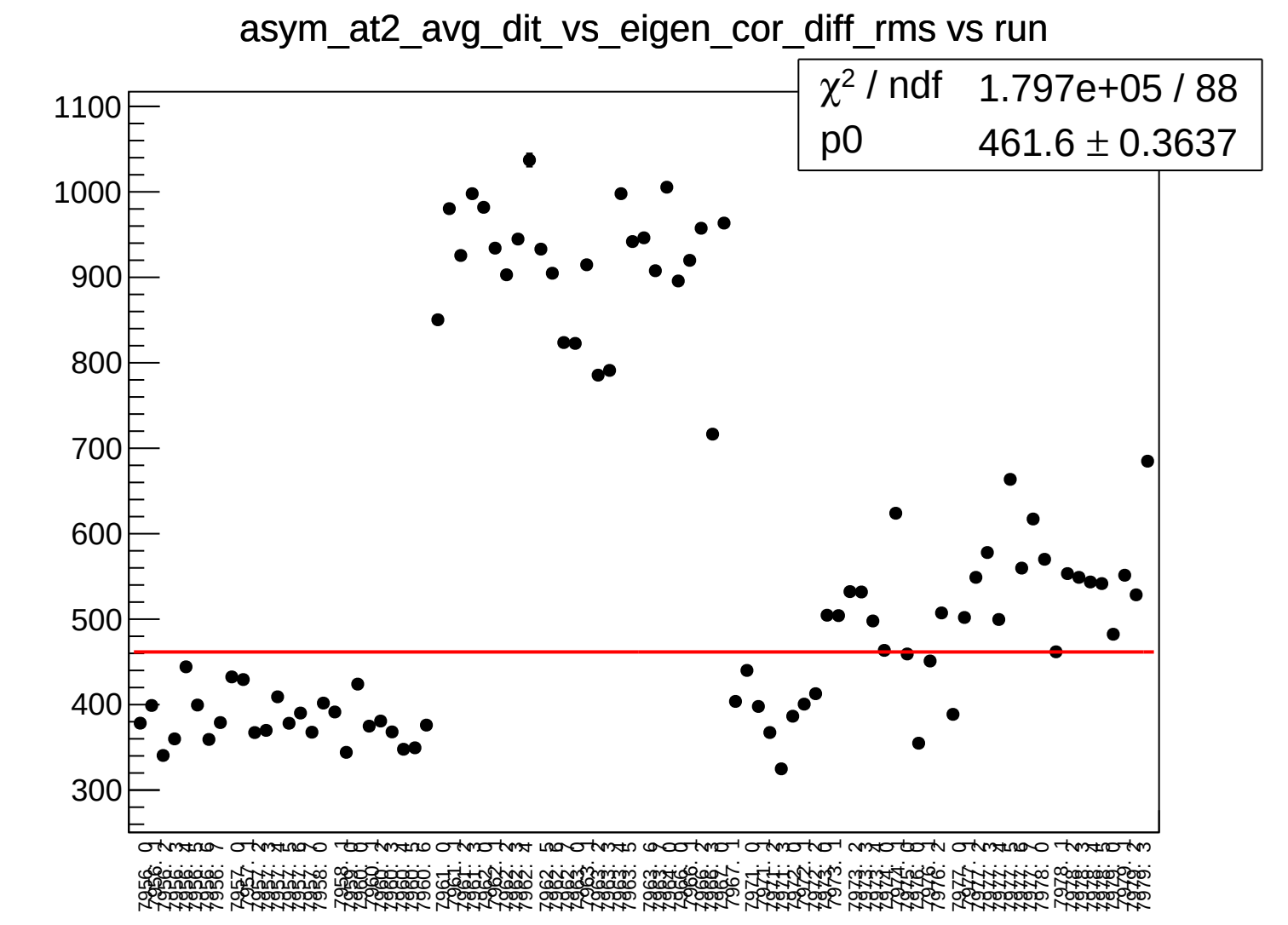

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.1 / 88
p0 −7.167e−13 ± 1.357e−12
pull
Entries 89
Mean 36.65
Std Dev 13.68
pull1D
Entries 89
Mean −0.1404
Std Dev 1.104

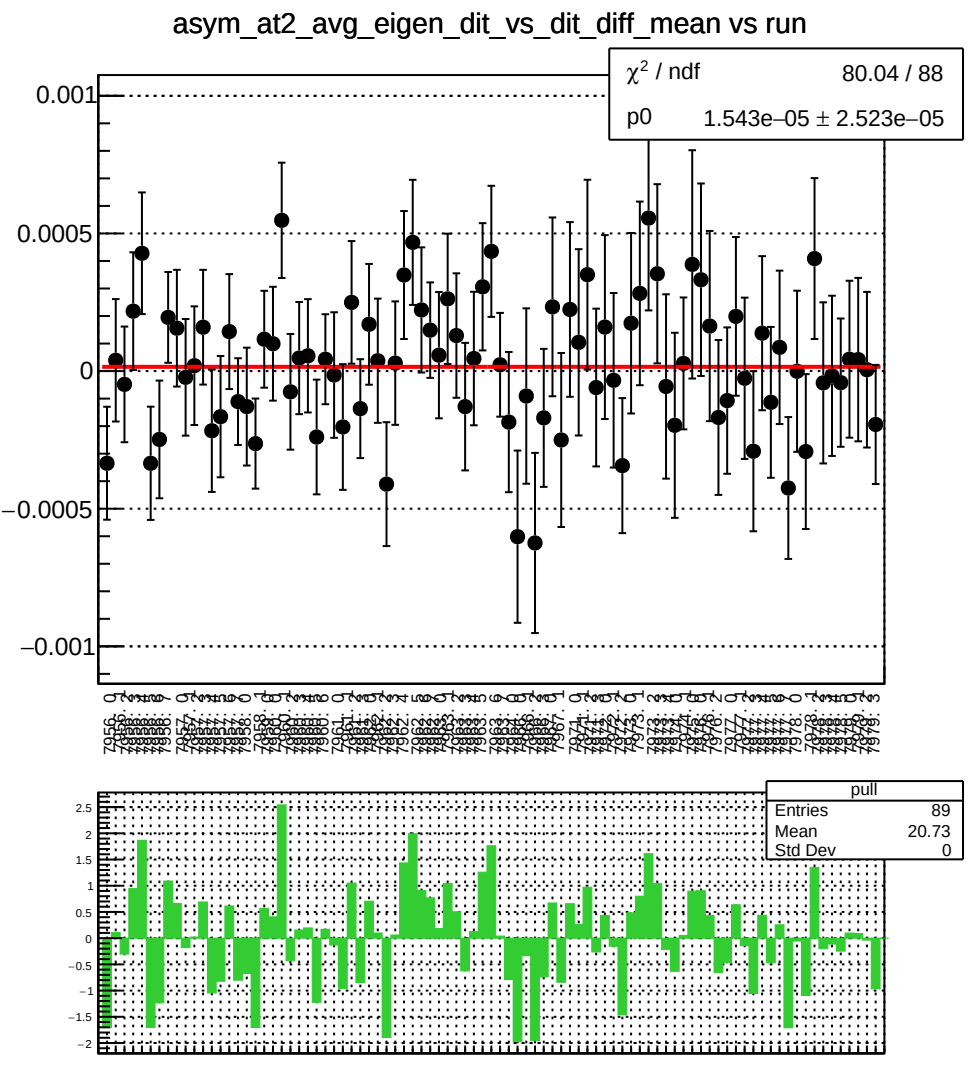

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.268e+06 / 88
p0 6.936e−10 ± 9.597e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

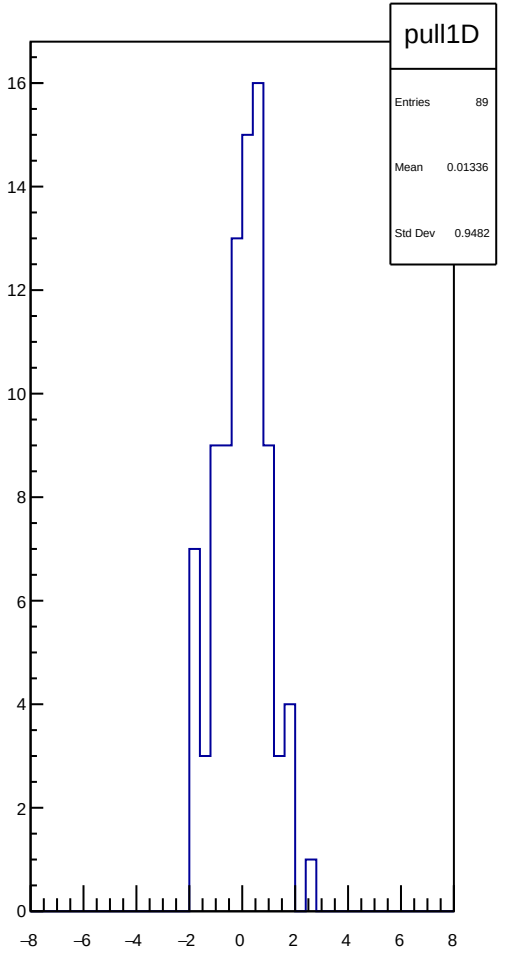

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.03 / 88
p0 −0.662 ± 0.5143
pull
Entries 89
Mean 231.7
Std Dev 0
pull1D
Entries 89
Mean −0.02142
Std Dev 1.006

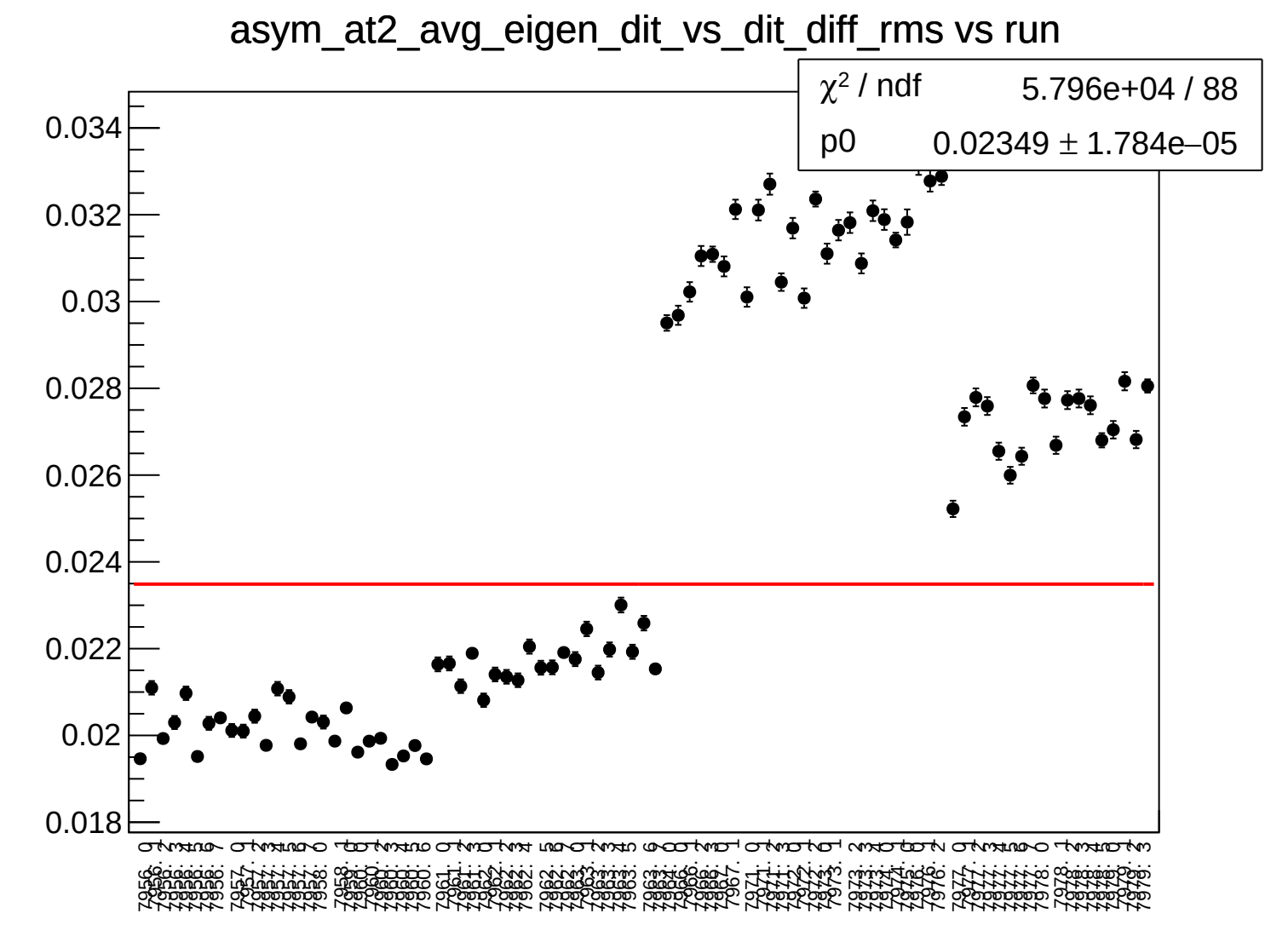

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.797e+05 / 88
p0 461.6 ± 0.3637
1100
1000
900
800
700
600
500
400
300

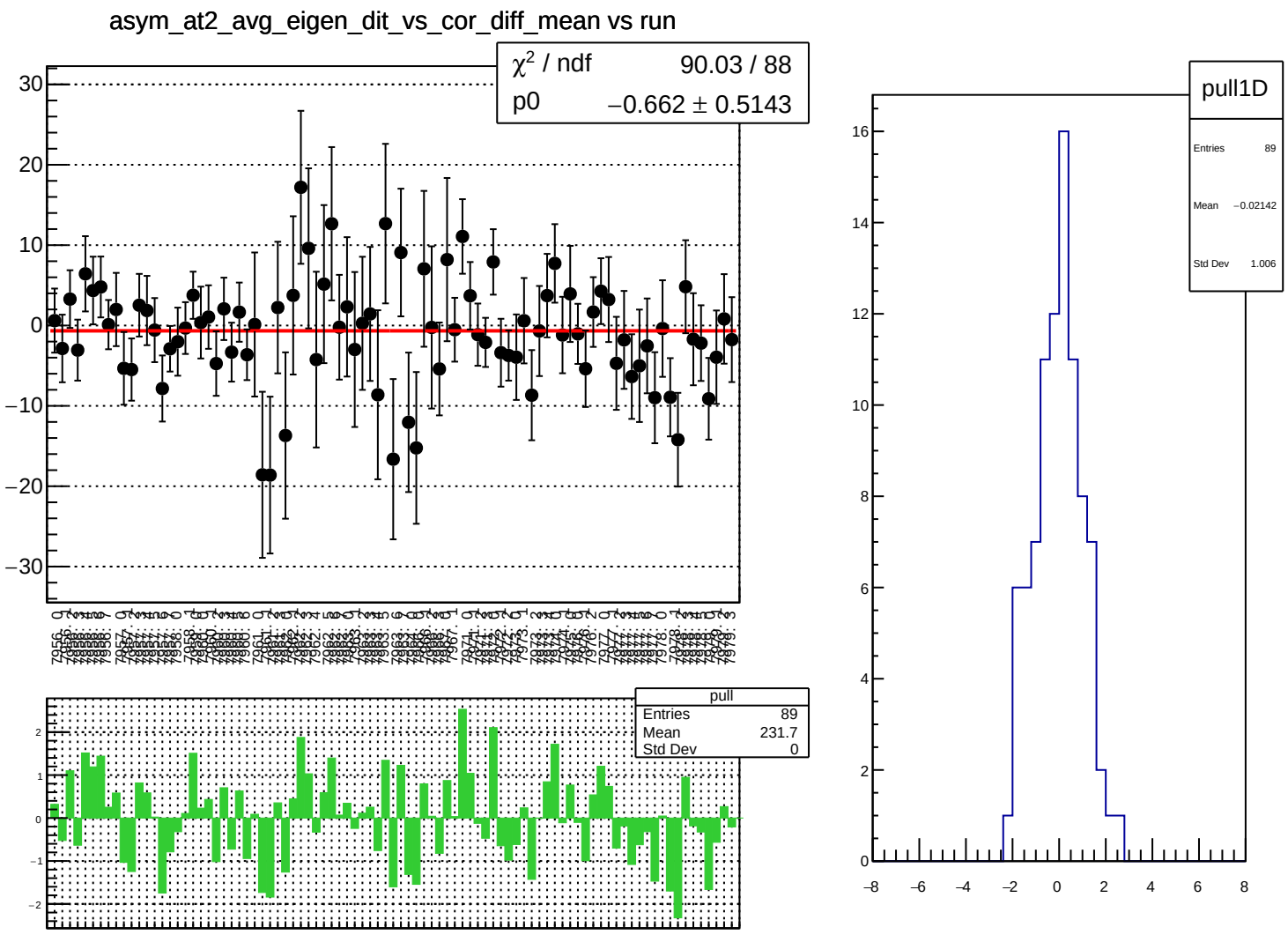

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.03 / 88
p0 −0.662 ± 0.5143
pull
Entries 89
Mean 231.7
Std Dev 0
pull1D
Entries 89
Mean −0.02142
Std Dev 1.006

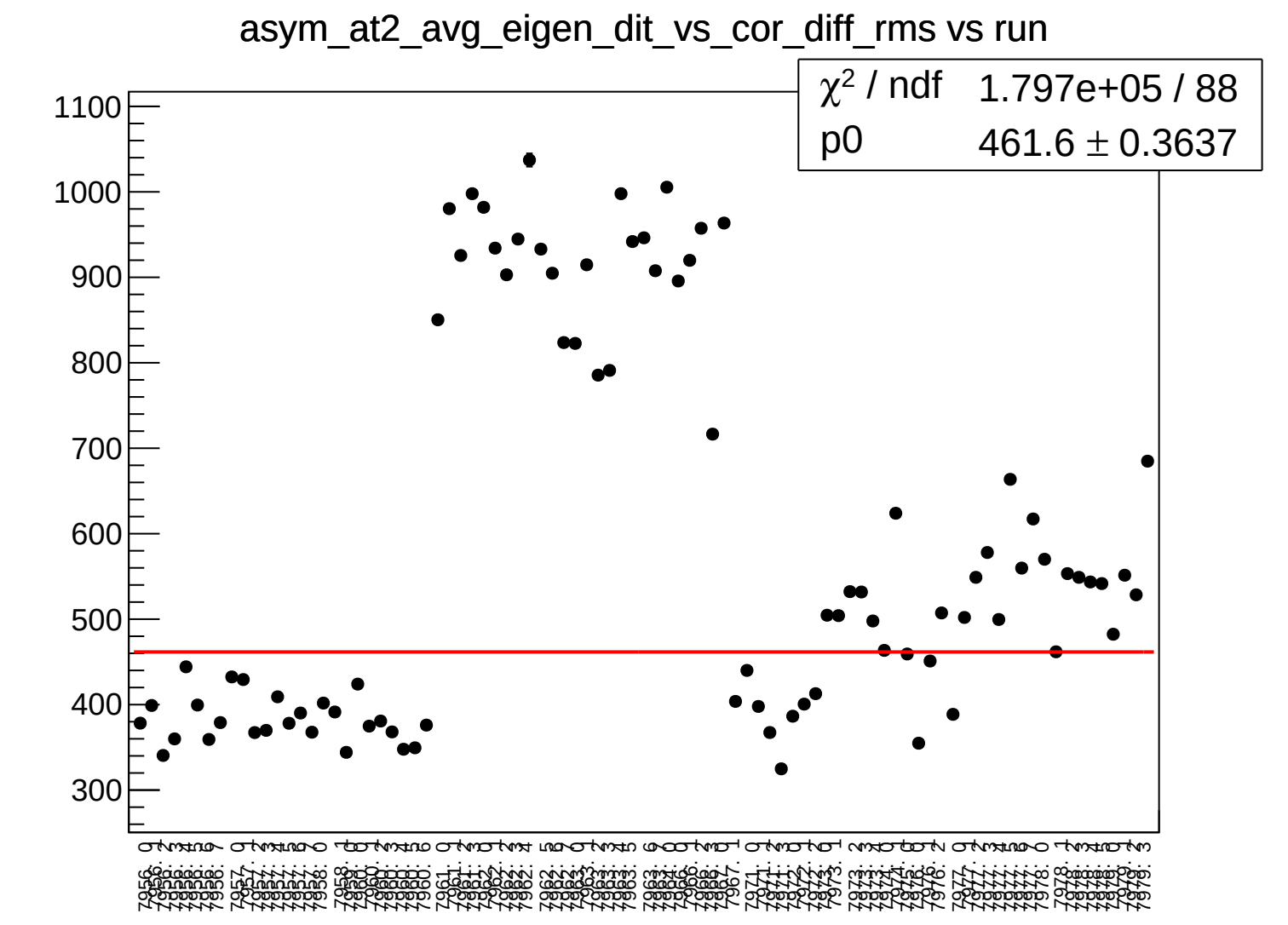

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.797e+05 / 88
p0 461.6 ± 0.3637
1100
1000
900
800
700
600
500
400
300

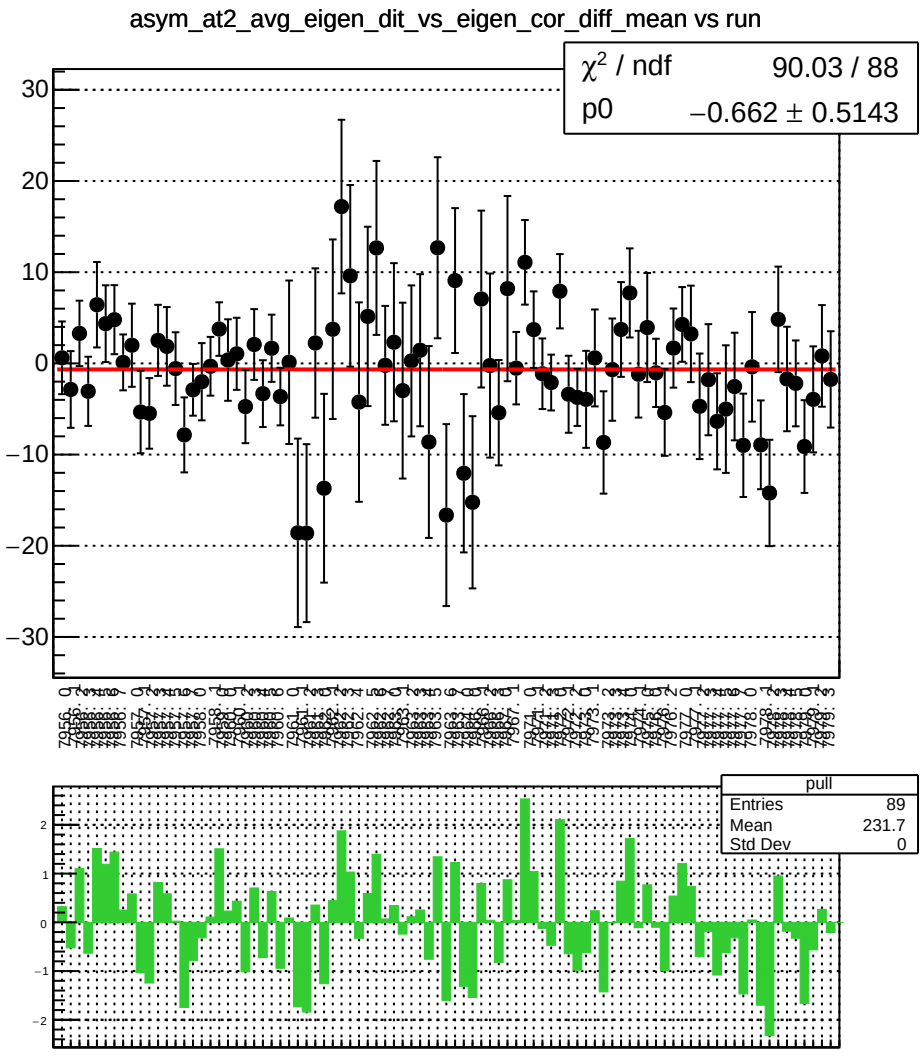

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 80.04 / 88
p0 1.543e−05 ± 2.523e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 20.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

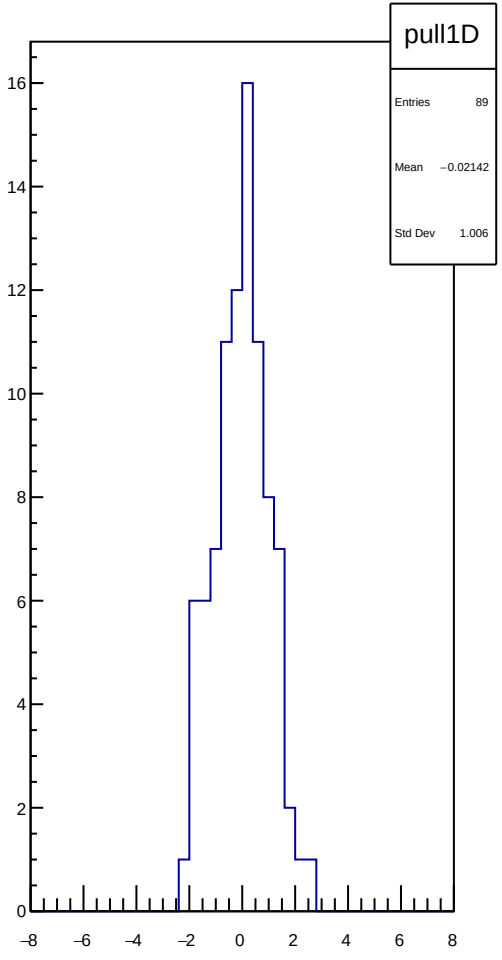

pull1D
Entries 89
Mean 0.01336
Std Dev 0.9482
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

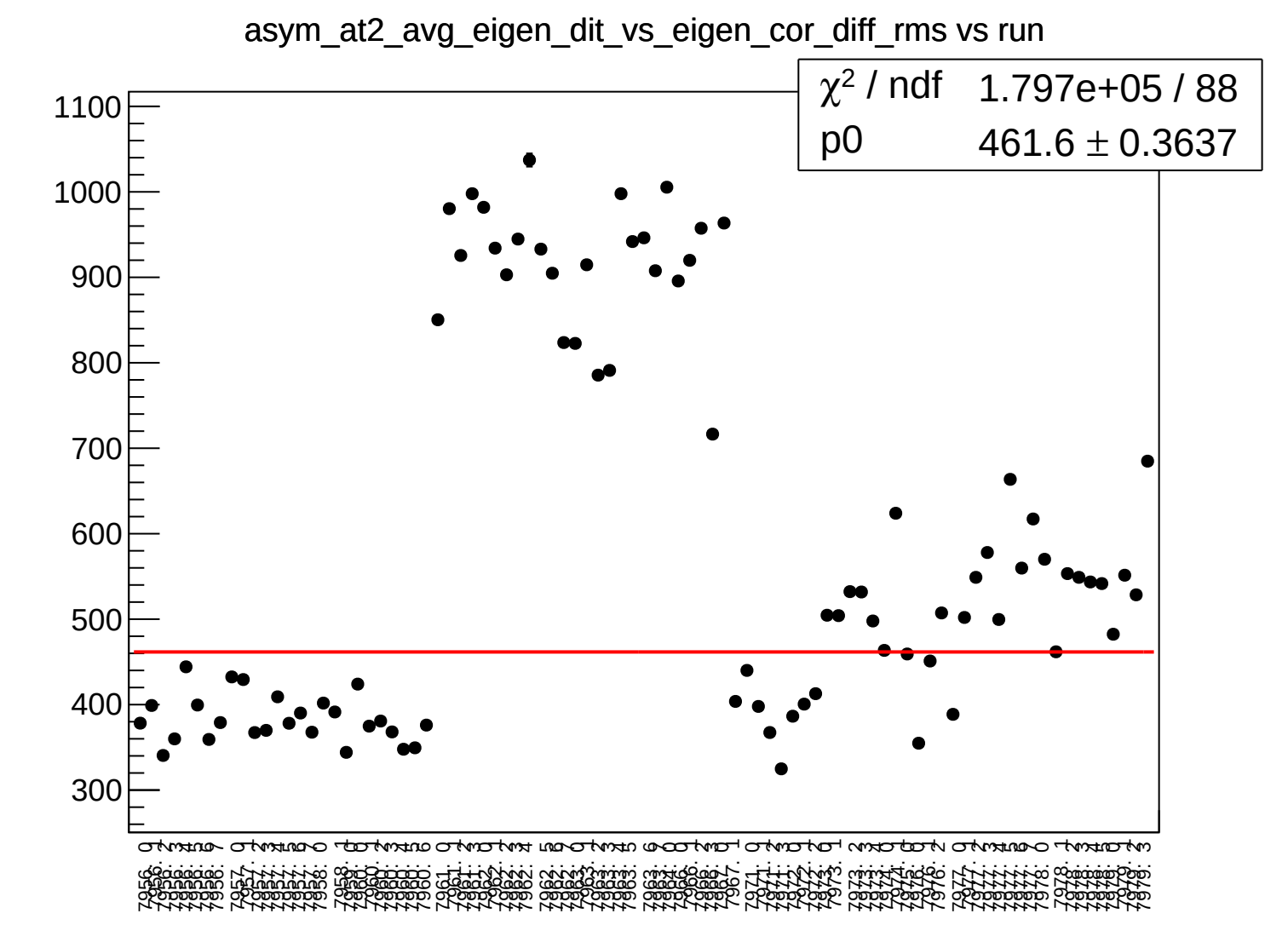

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.796e+04 / 88
p0 0.02349 ± 1.784e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018

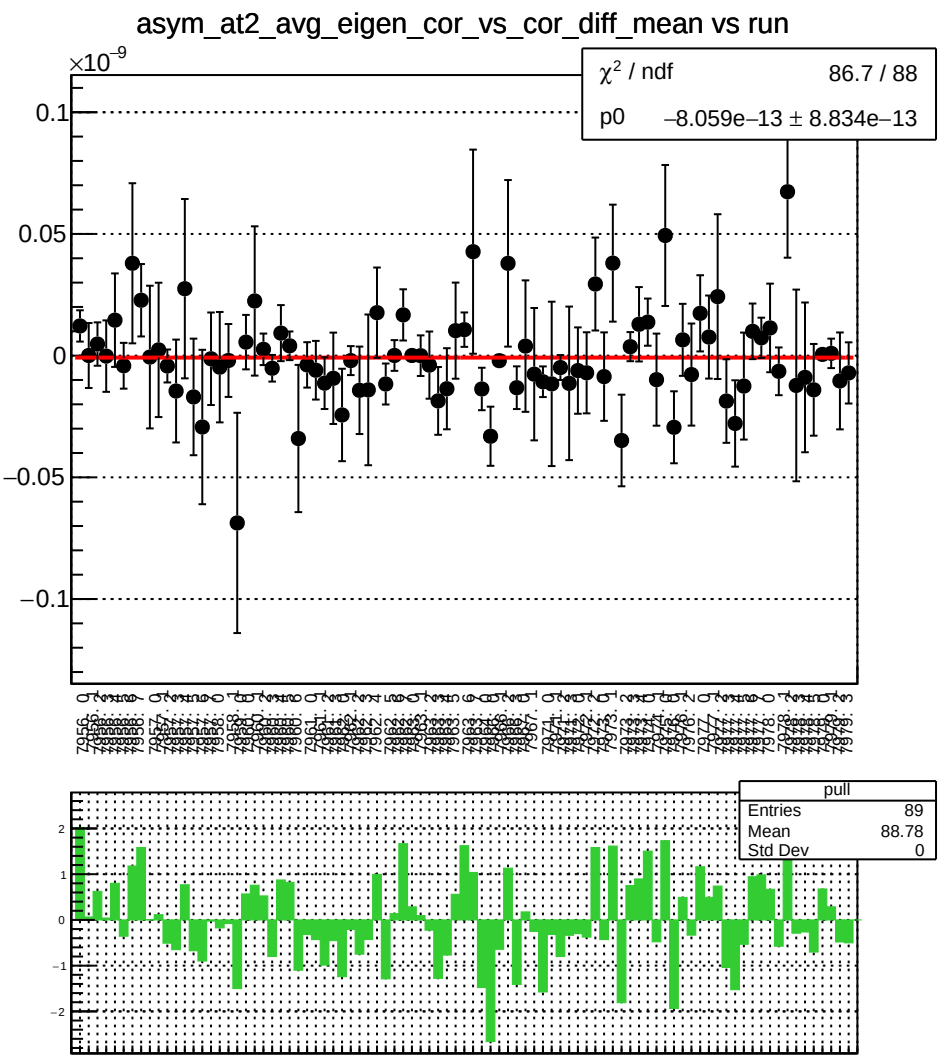

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.03 / 88
p0 −0.662 ± 0.5143
pull
Entries 89
Mean 231.7
Std Dev 0
pull1D
Entries 89
Mean −0.02142
Std Dev 1.006

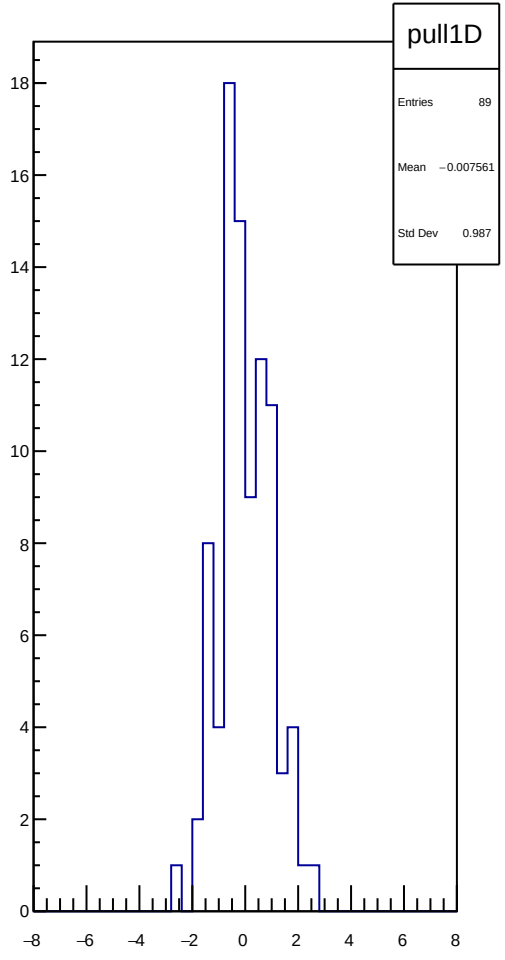

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.797e+05 / 88
p0 461.6 ± 0.3637
1100
1000
900
800
700
600
500
400
300

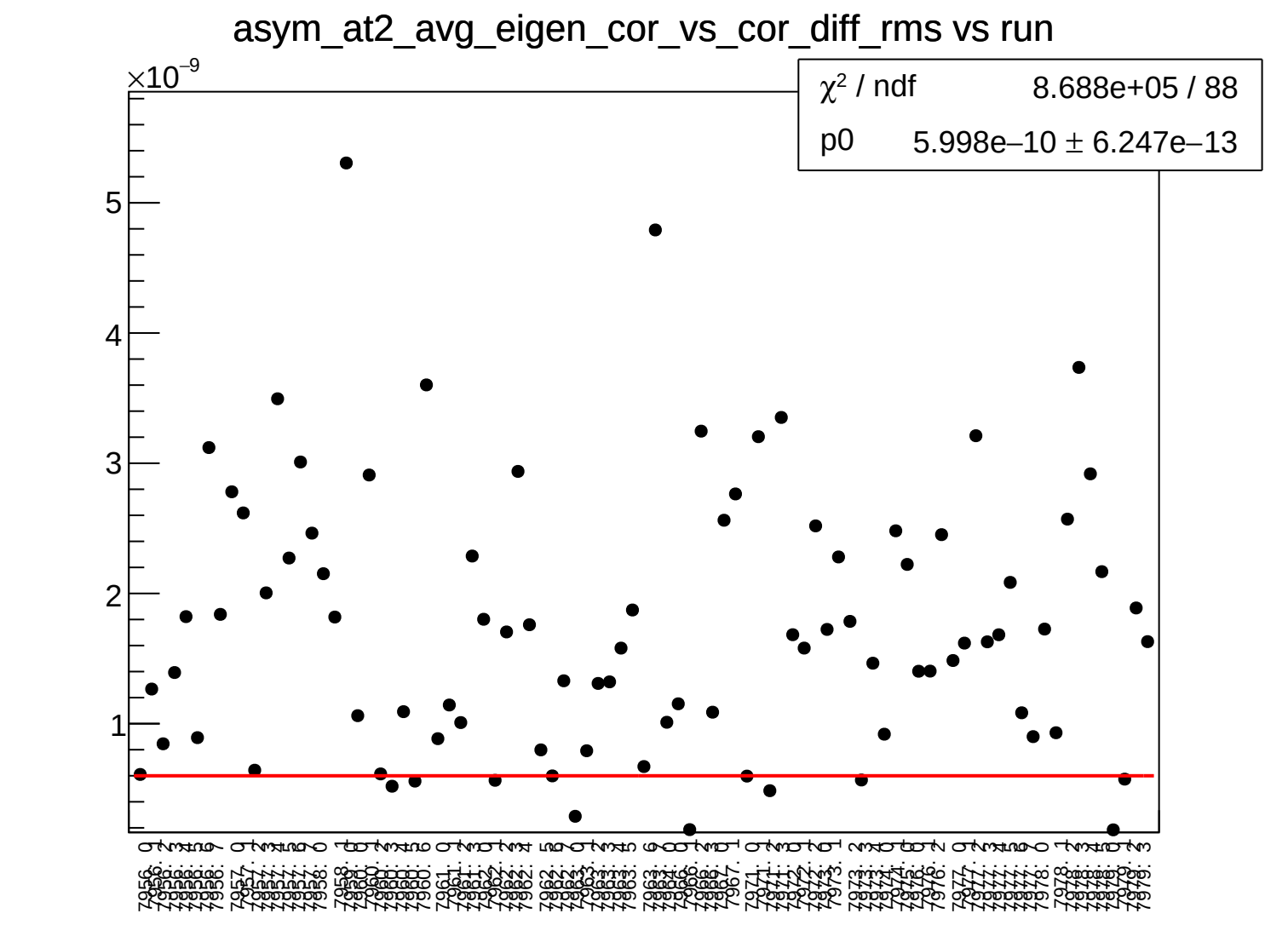

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.03 / 88
p0 −0.662 ± 0.5143
pull
Entries 89
Mean 231.7
Std Dev 0

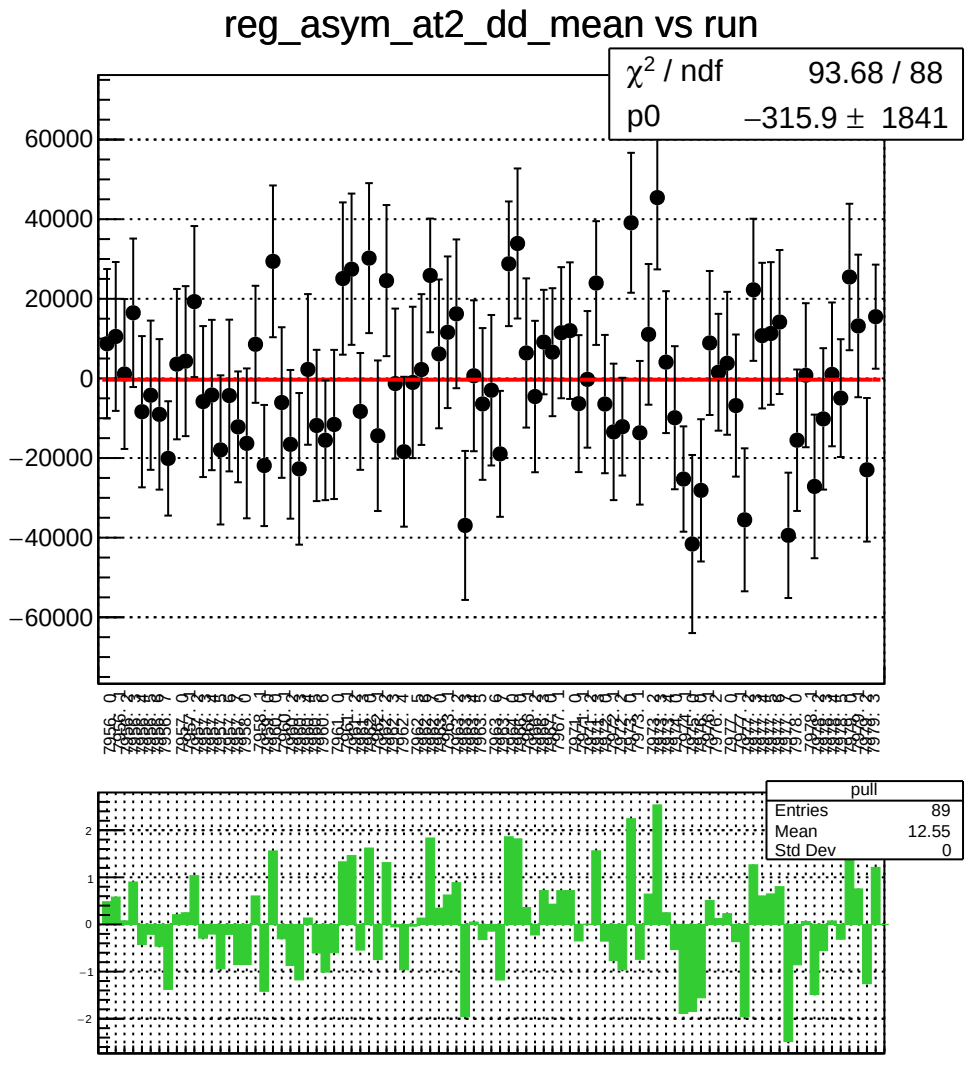

pull1D
Entries 89
Mean −0.02142
Std Dev 1.006

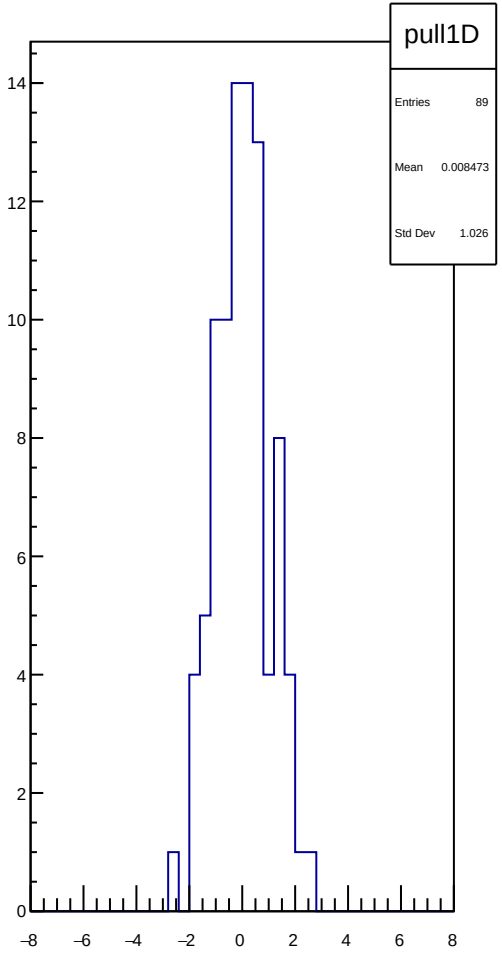

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.797e+05 / 88
p0 461.6 ± 0.3637
1100
1000
900
800
700
600
500
400
300

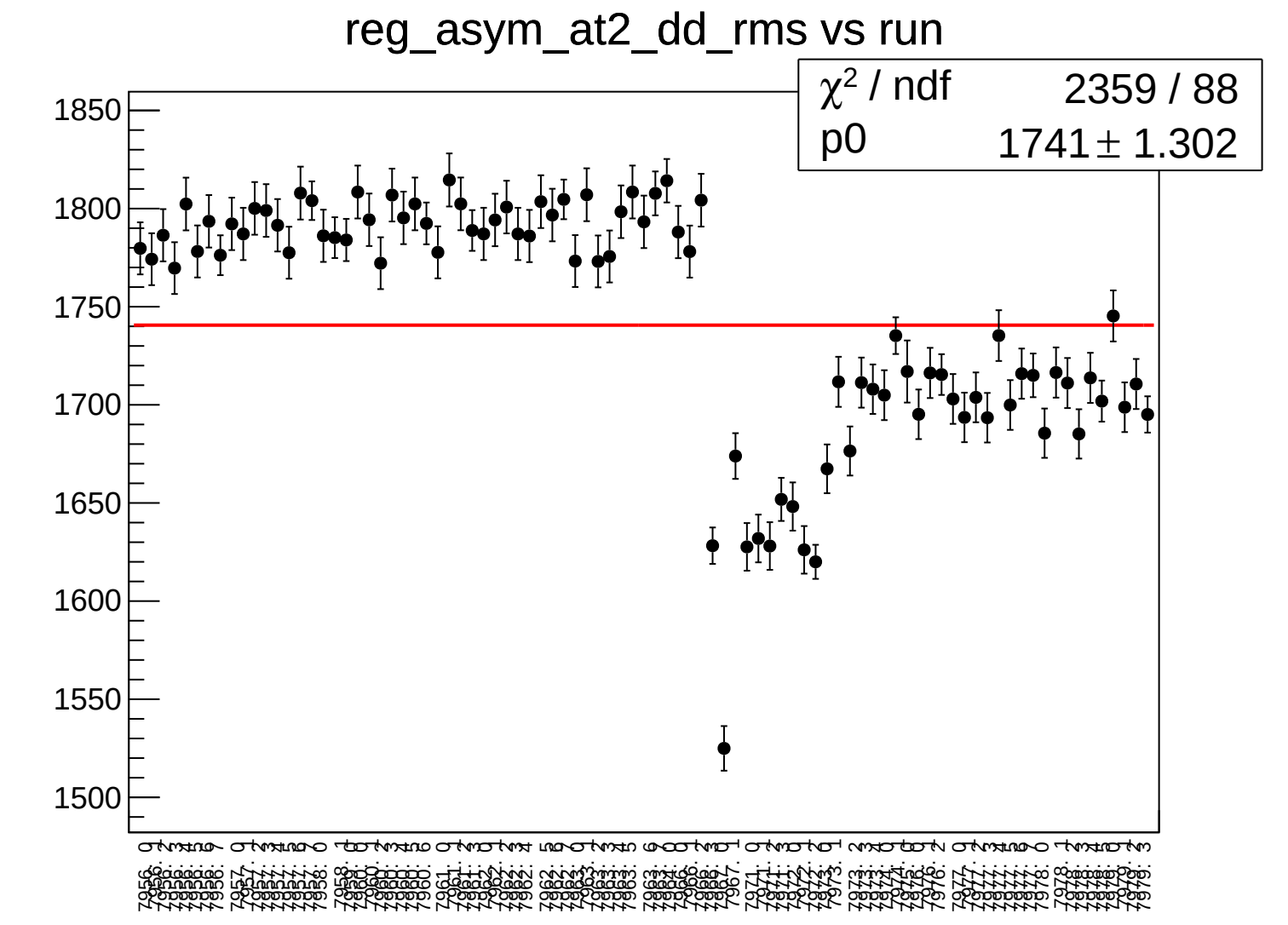

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 86.7 / 88
p0 −8.059e−13 ± 8.834e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 88.78
Std Dev 0
2
1
0
−1
−2

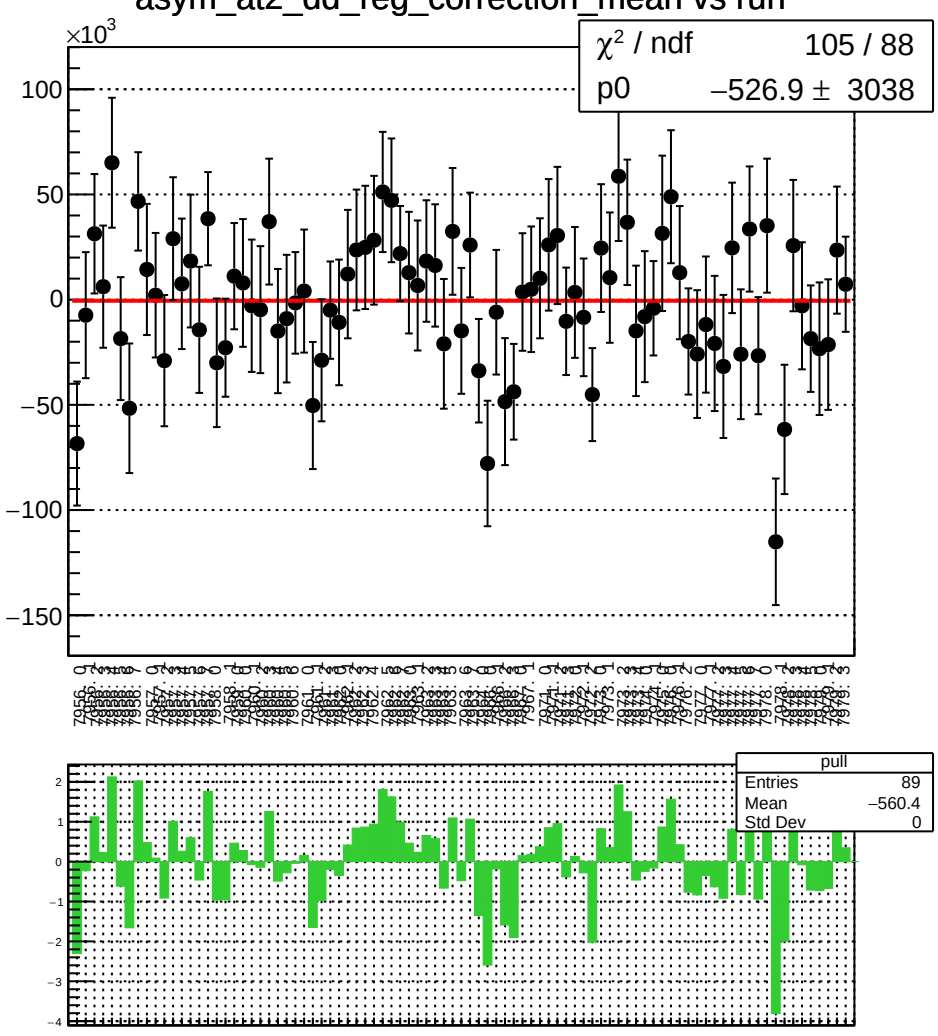

pull1D
Entries 89
Mean −0.007561
Std Dev 0.987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

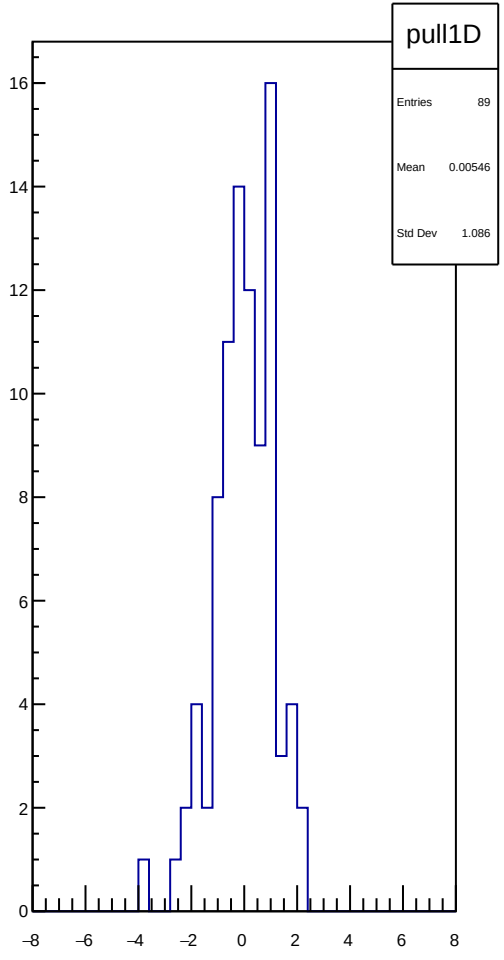

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.688e+05 / 88
p0 5.998e−10 ± 6.247e−13
5
4
3
2
1

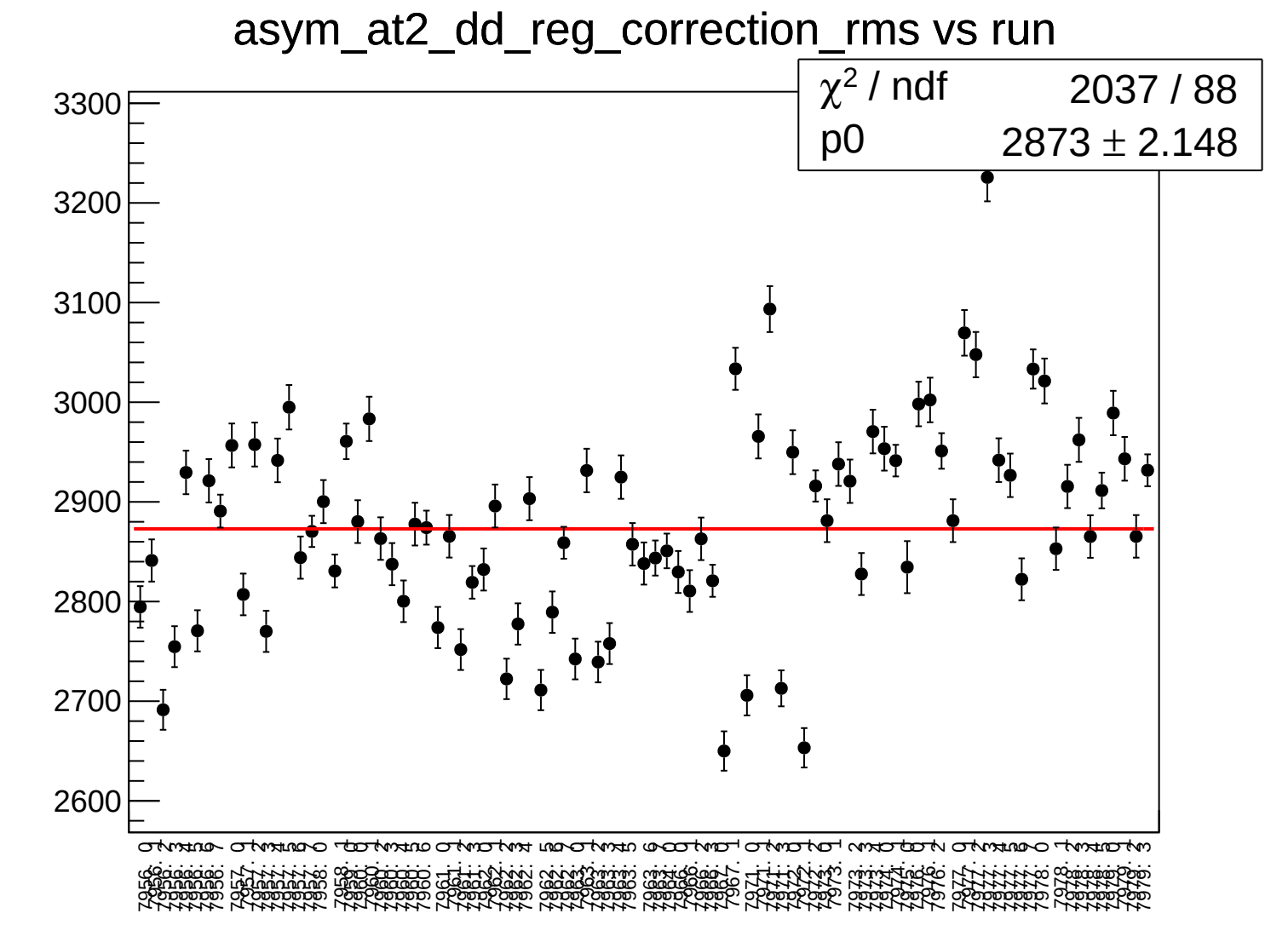

reg_asym_at2_dd_mean vs run
χ² / ndf 93.68 / 88
p0 −315.9 ± 1841
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 12.55
Std Dev 0
2
1
0
−1
−2

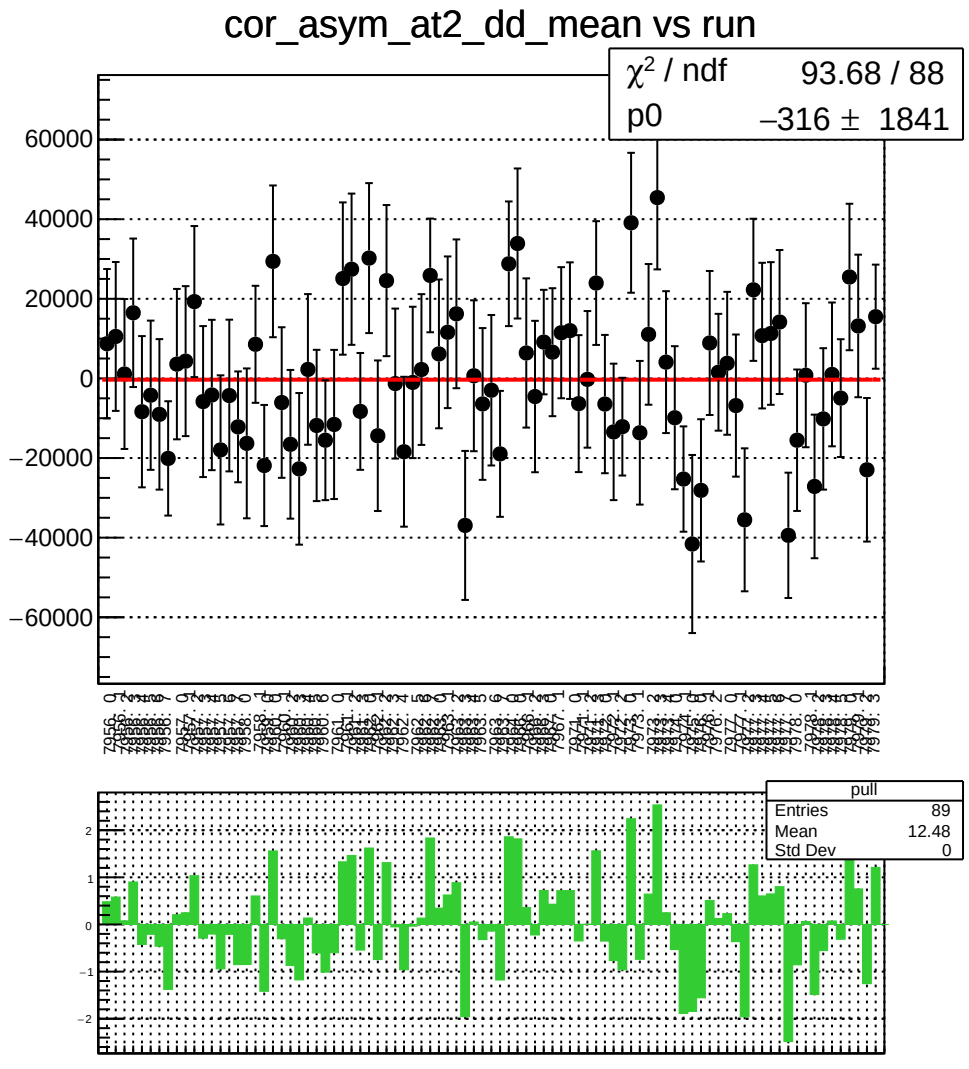

pull1D
Entries 89
Mean 0.008473
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

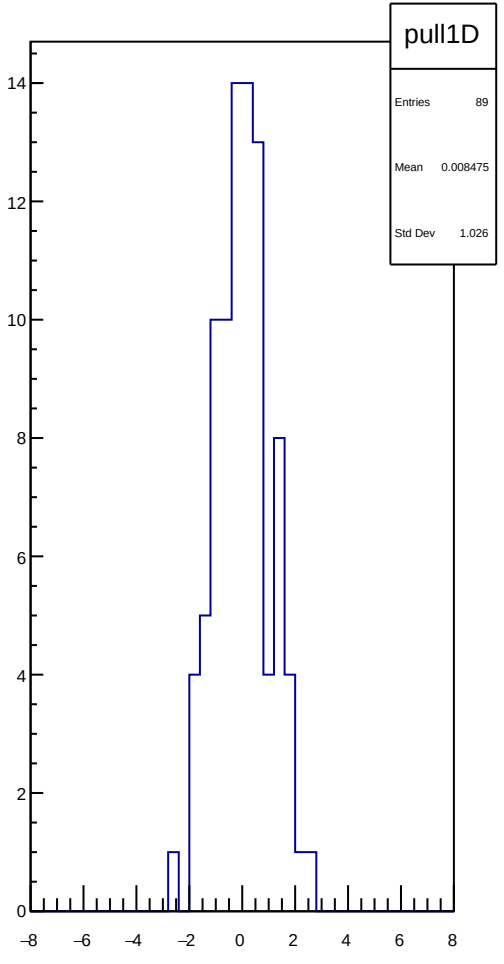

reg_asym_at2_dd_rms vs run
χ² / ndf 2359 / 88
p0 1741 ± 1.302
1850
1800
1750
1700
1650
1600
1550
1500

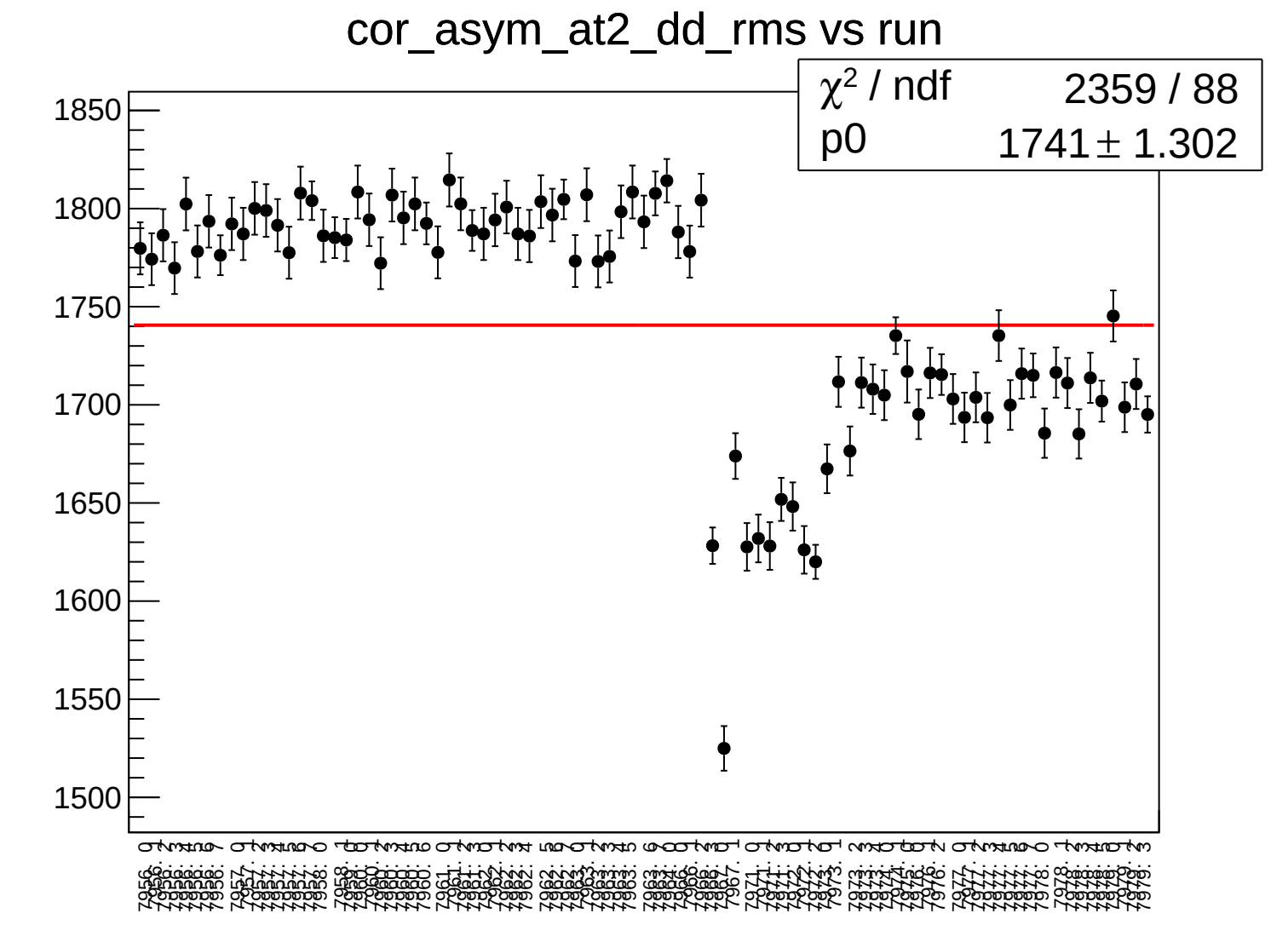

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 105 / 88
p0 −526.9 ± 3038
pull
Entries 89
Mean −560.4
Std Dev 0

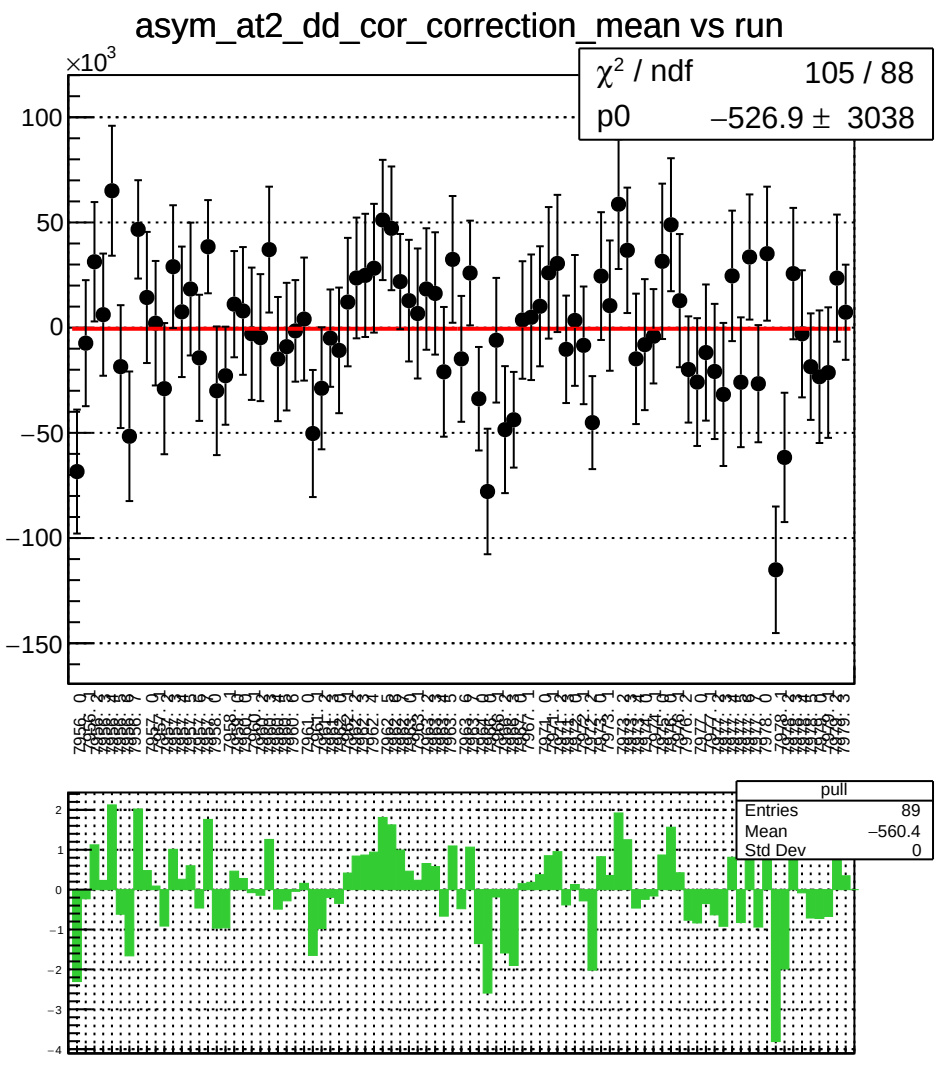

pull1D
Entries 89
Mean 0.00546
Std Dev 1.086

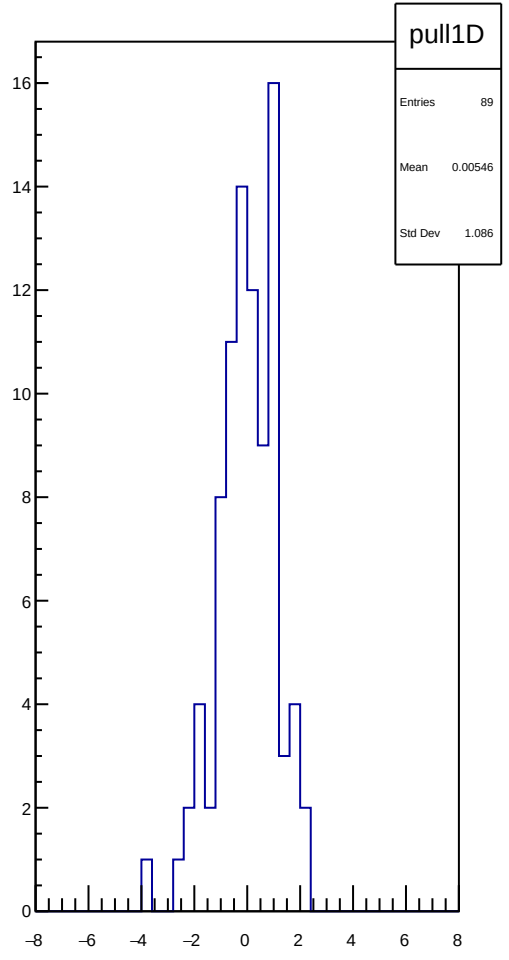

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 2037 / 88
p0 2873 ± 2.148
3300
3200
3100
3000
2900
2800
2700
2600

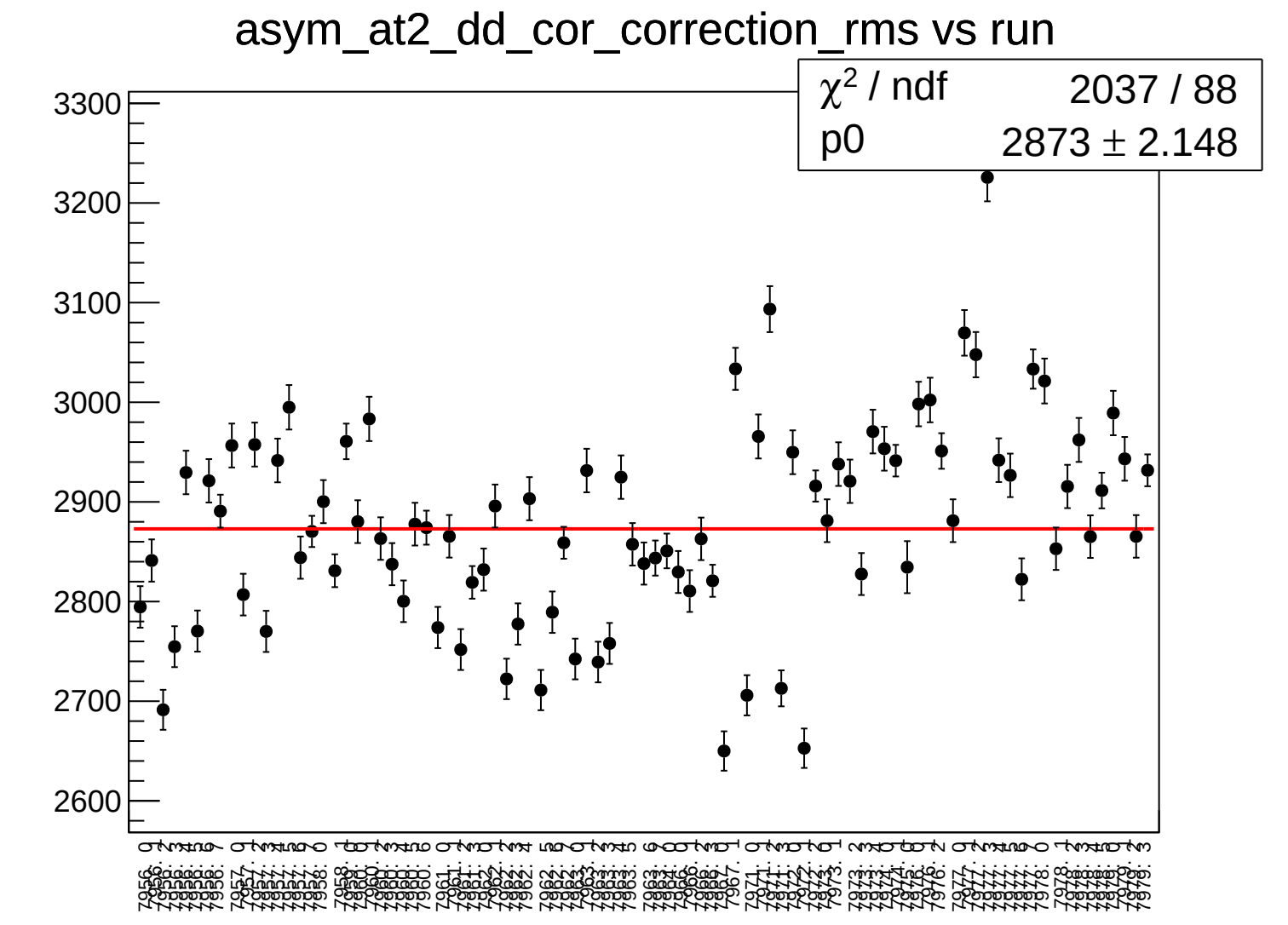

cor_asym_at2_dd_mean vs run
χ² / ndf 93.68 / 88
p0 −316 ± 1841
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 12.48
Std Dev 0
2
1
0
−1
−2

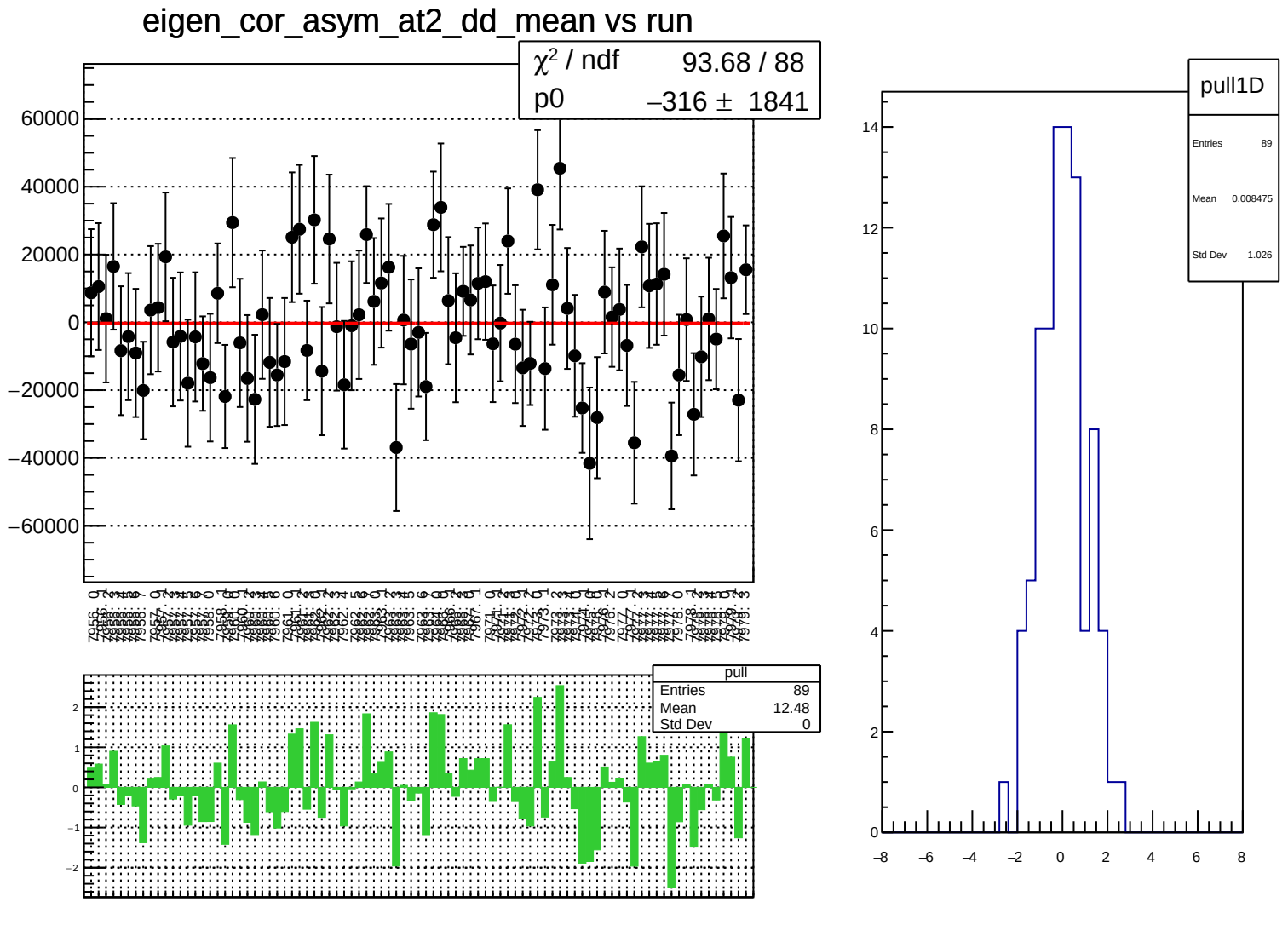

pull1D
Entries 89
Mean 0.008475
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

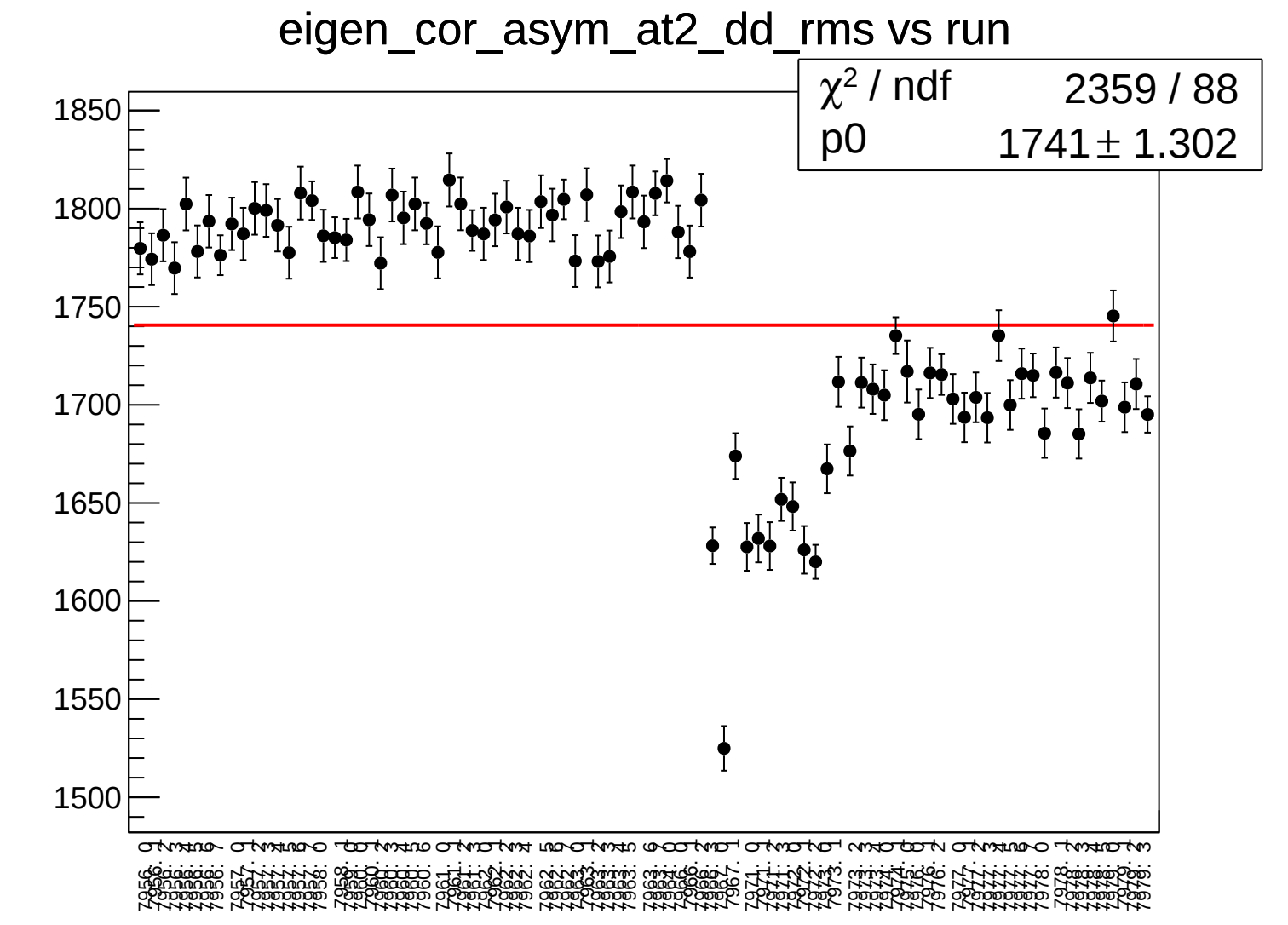

cor_asym_at2_dd_rms vs run
χ² / ndf 2359 / 88
p0 1741 ± 1.302
1850
1800
1750
1700
1650
1600
1550
1500

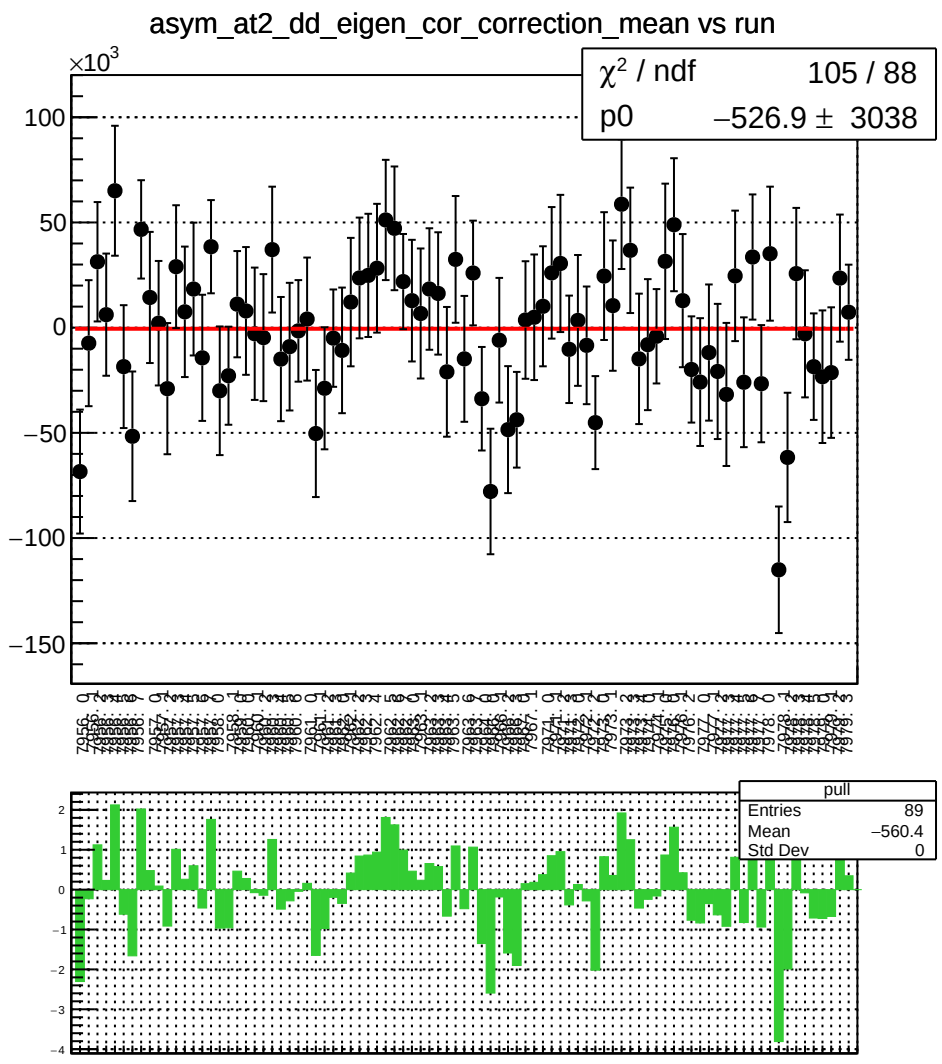

asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 105 / 88
p0 −526.9 ± 3038
100
50
0
−50
−100
−150
pull
Entries 89
Mean −560.4
Std Dev 0
2
1
0
−1
−2
−3
−4

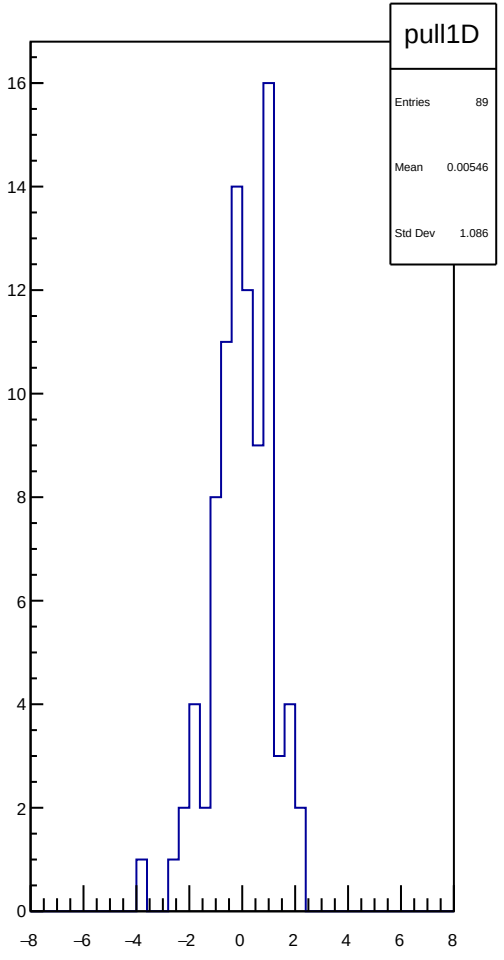

pull1D
Entries 89
Mean 0.00546
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

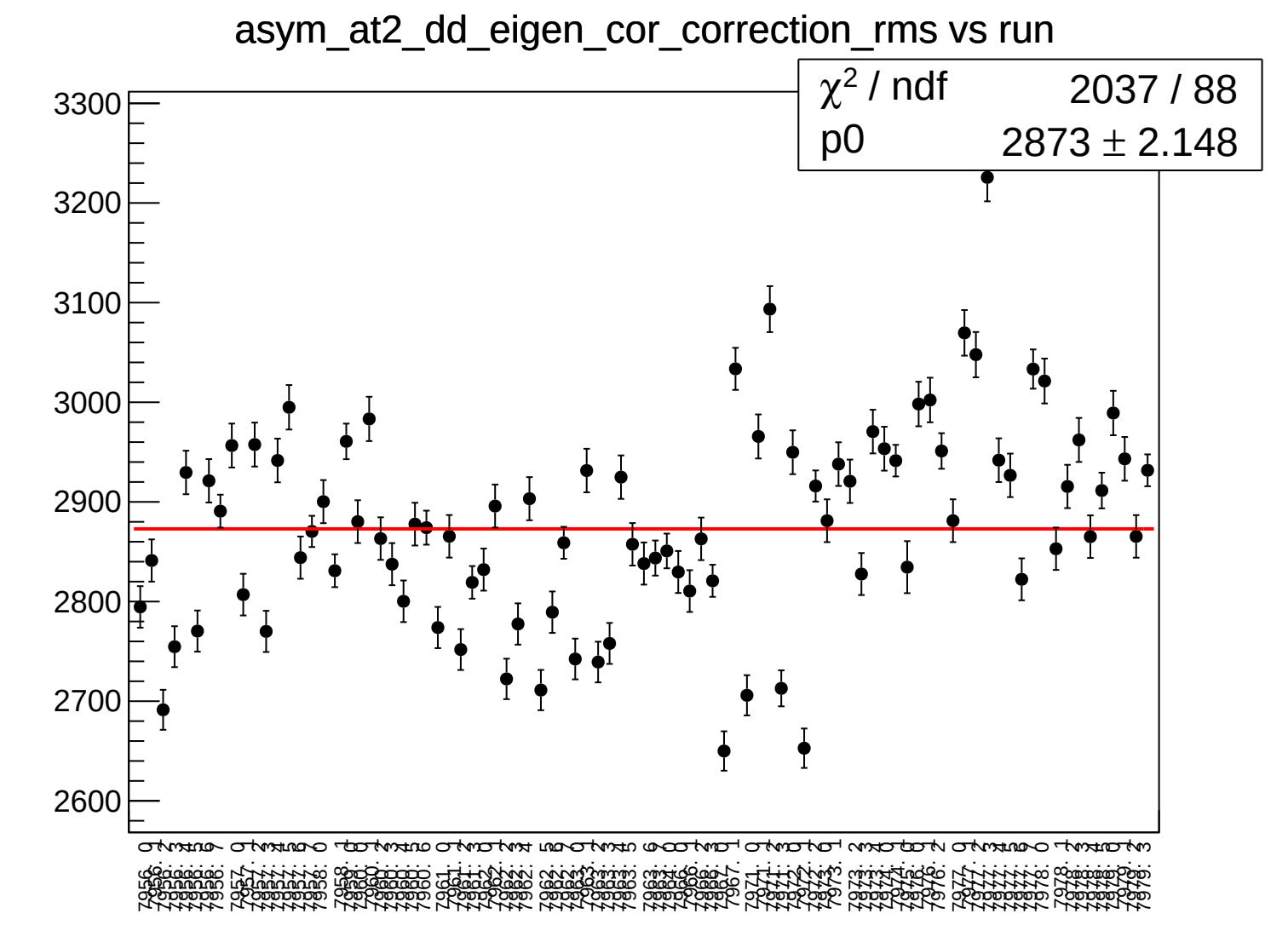

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 2037 / 88
p0 2873 ± 2.148
3300
3200
3100
3000
2900
2800
2700
2600

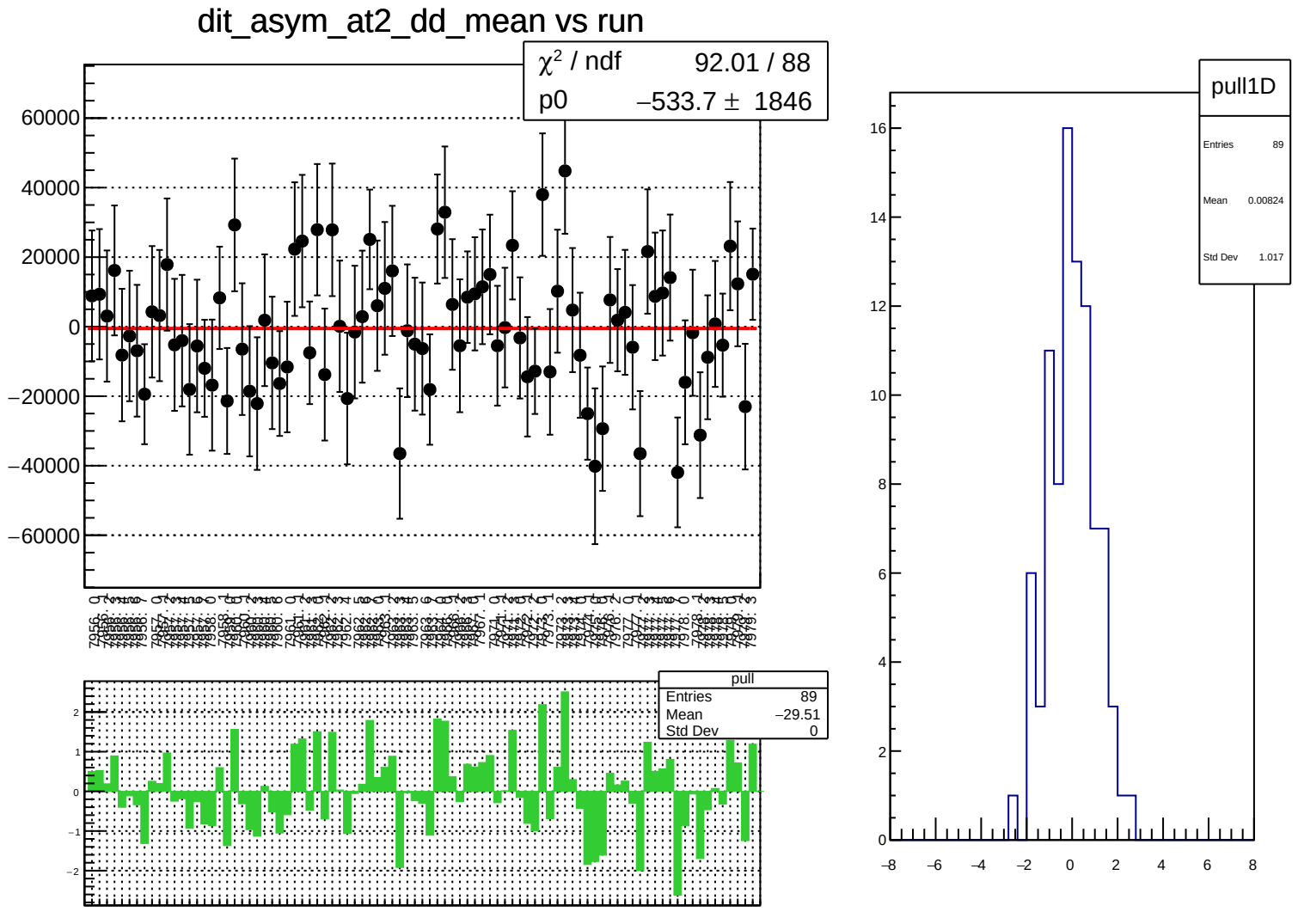

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 93.68 / 88
p0 −316 ± 1841
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 12.48
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.008475
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

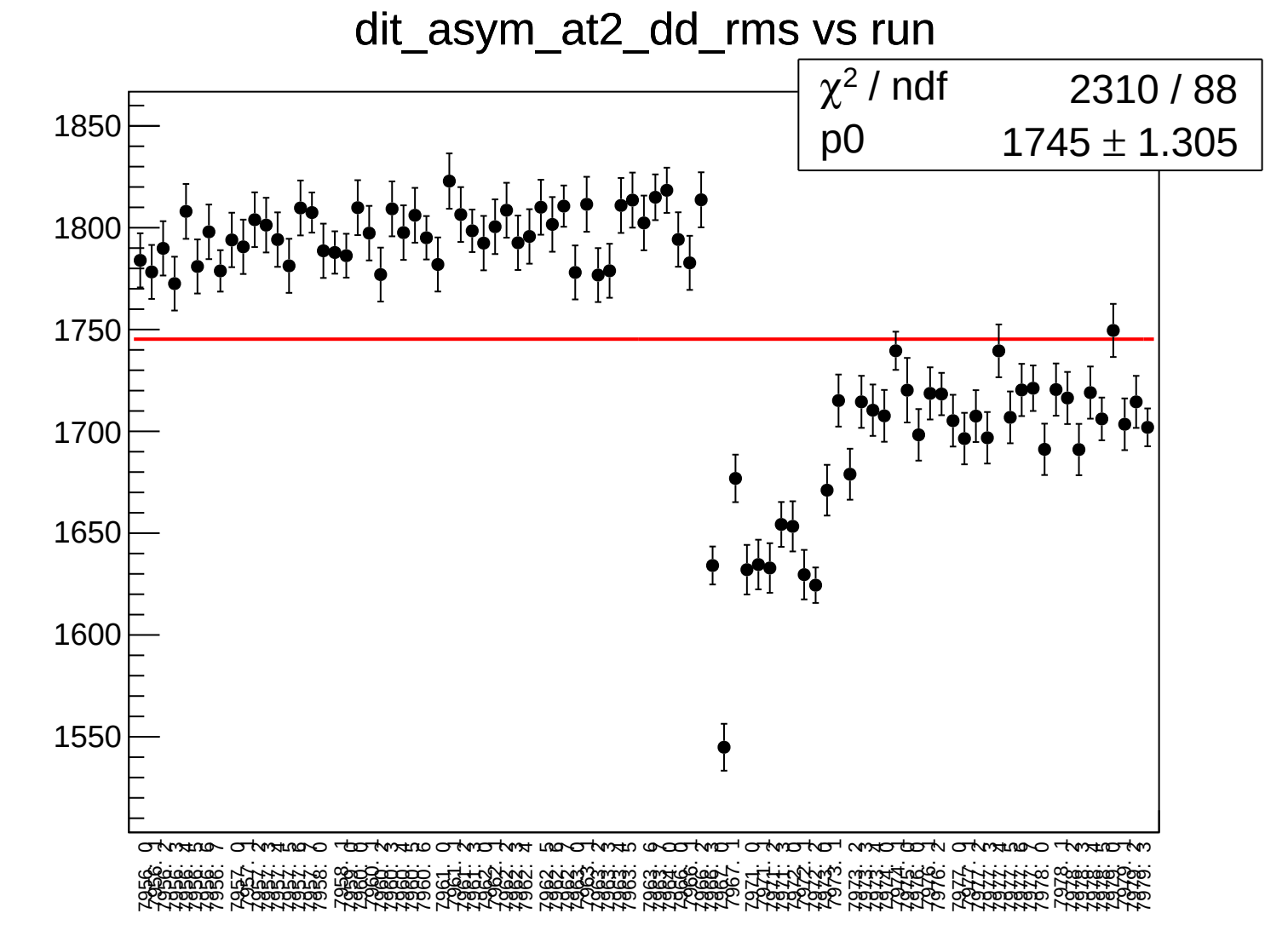

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 2359 / 88
p0 1741 ± 1.302
1850
1800
1750
1700
1650
1600
1550
1500

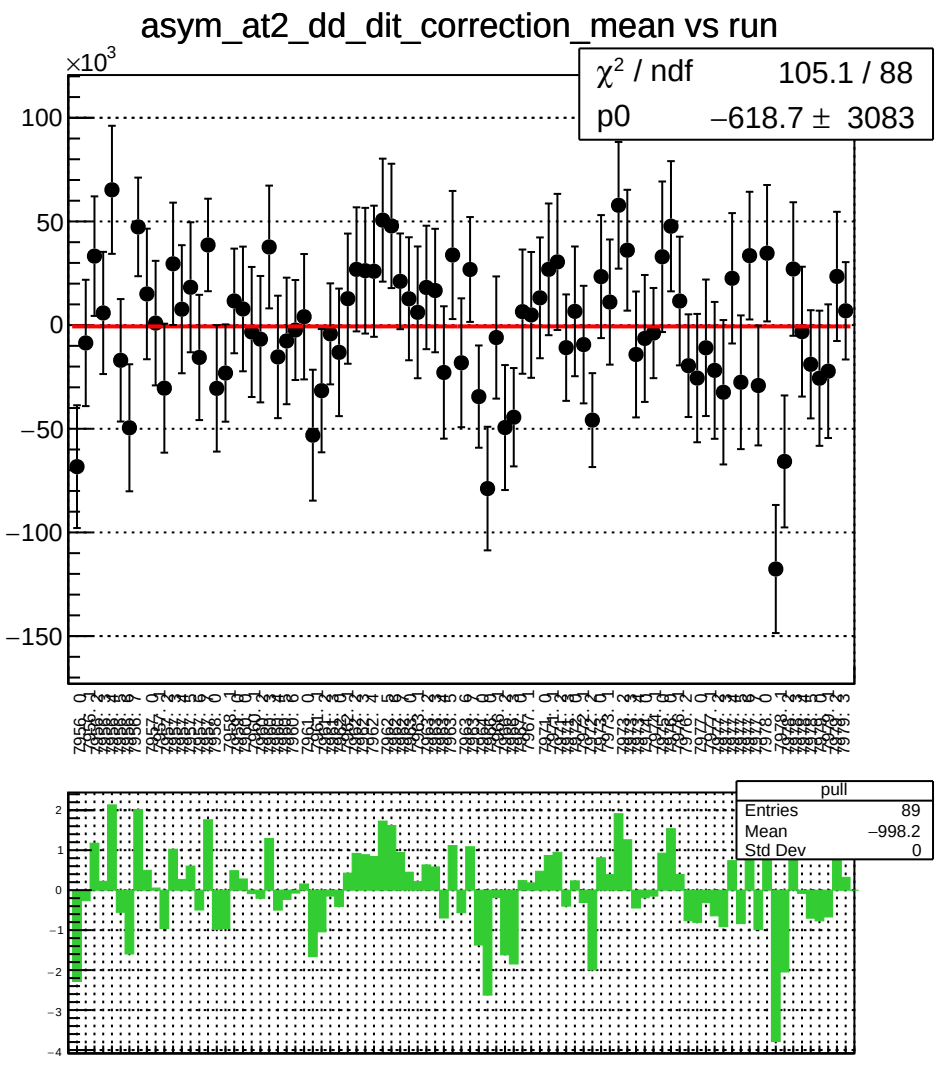

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 105 / 88
p0 −526.9 ± 3038
pull
Entries 89
Mean −560.4
Std Dev 0

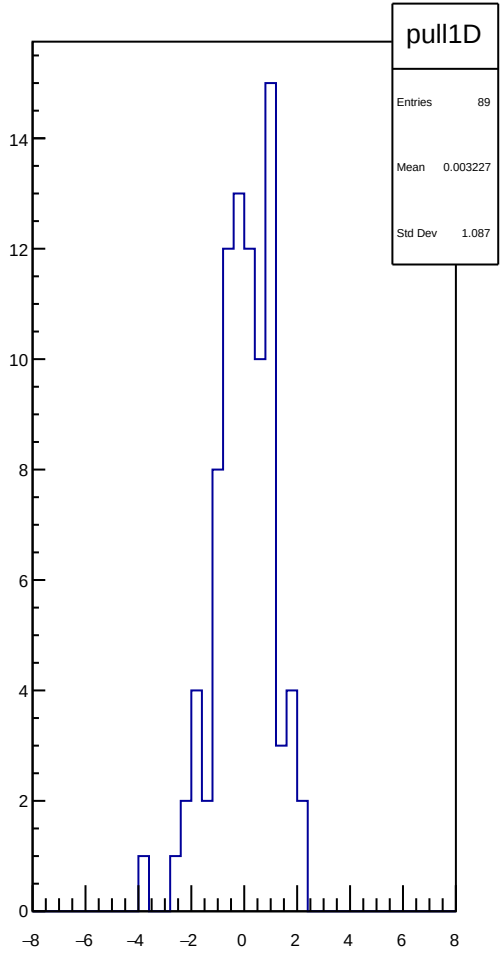

pull1D
Entries 89
Mean 0.00546
Std Dev 1.086

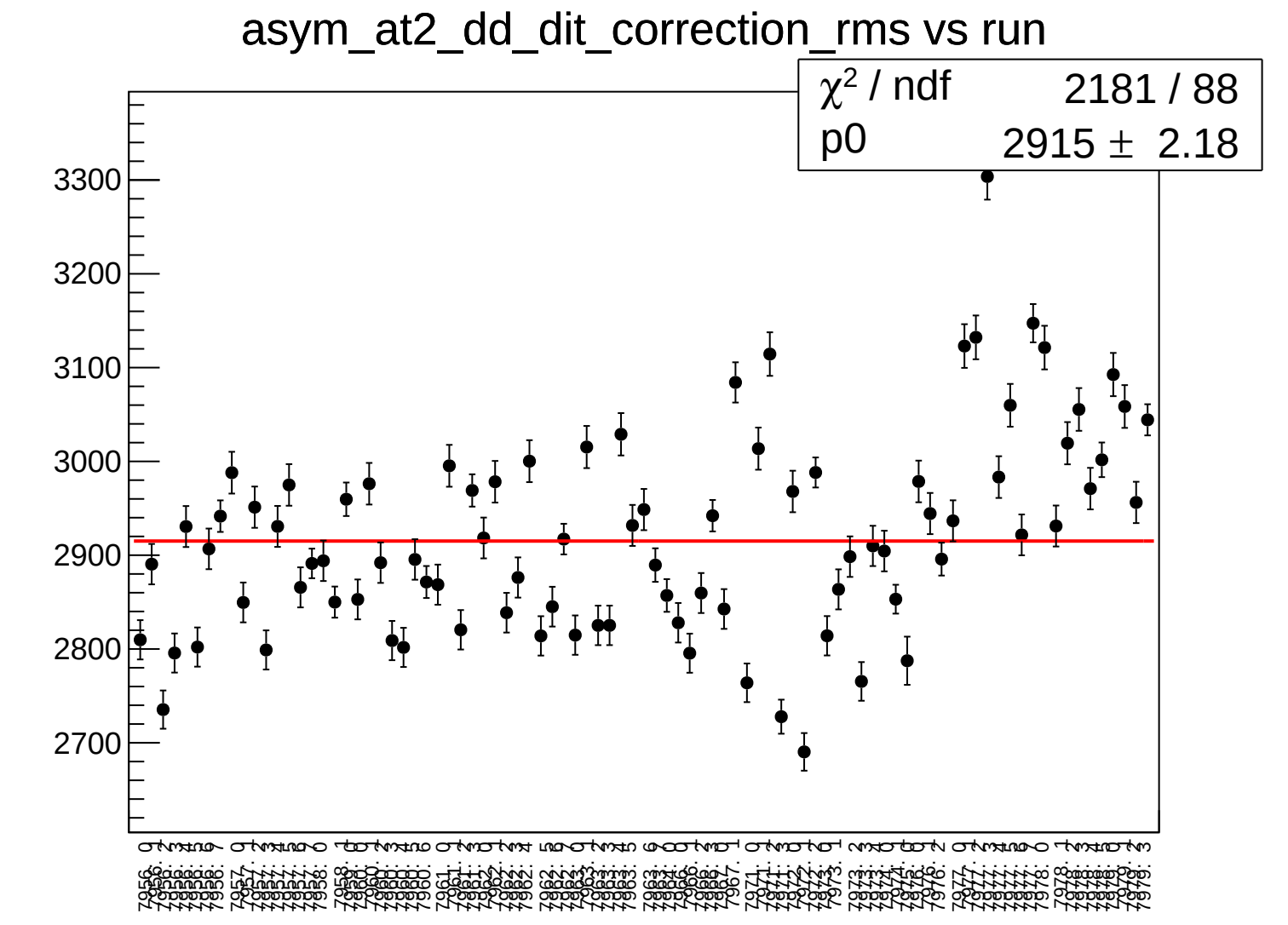

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2037 / 88
p0 2873 ± 2.148
3300
3200
3100
3000
2900
2800
2700
2600

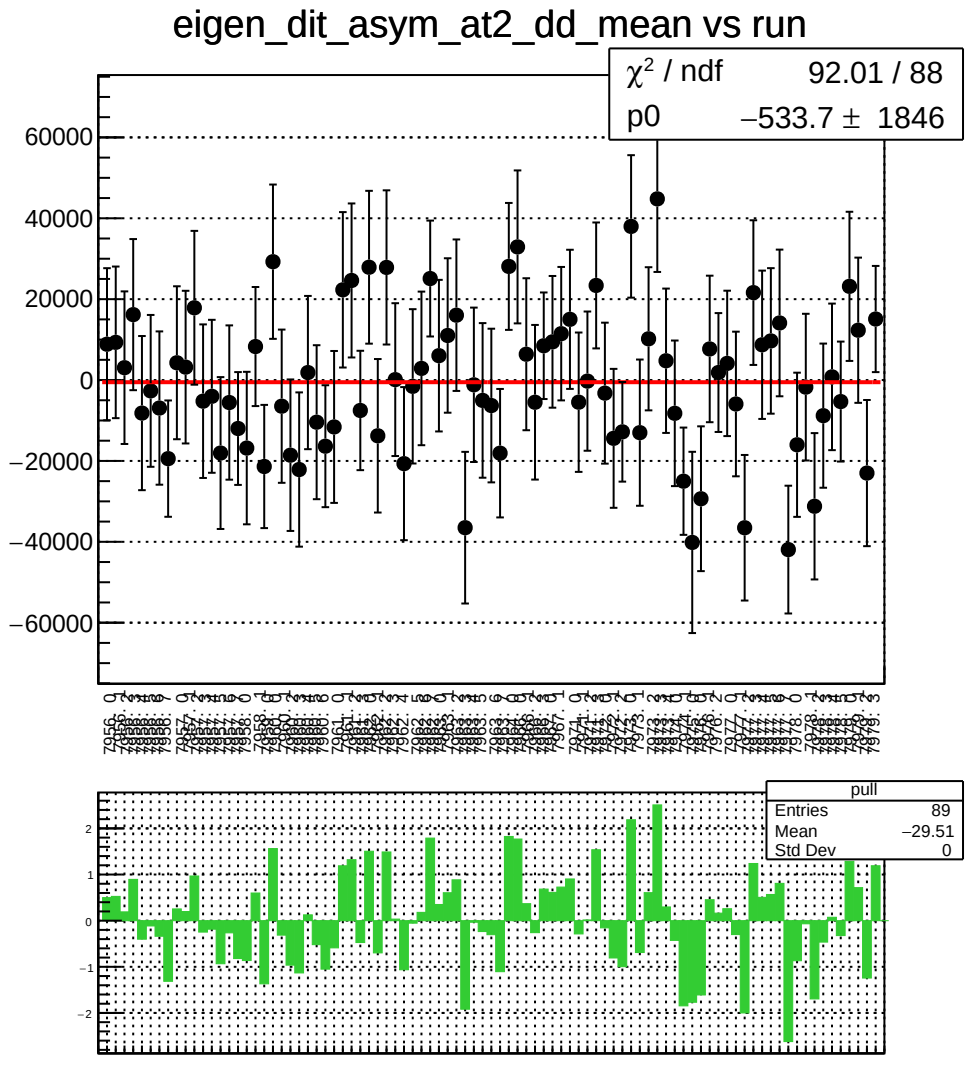

dit_asym_at2_dd_mean vs run
χ² / ndf 92.01 / 88
p0 −533.7 ± 1846
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −29.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.00824
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

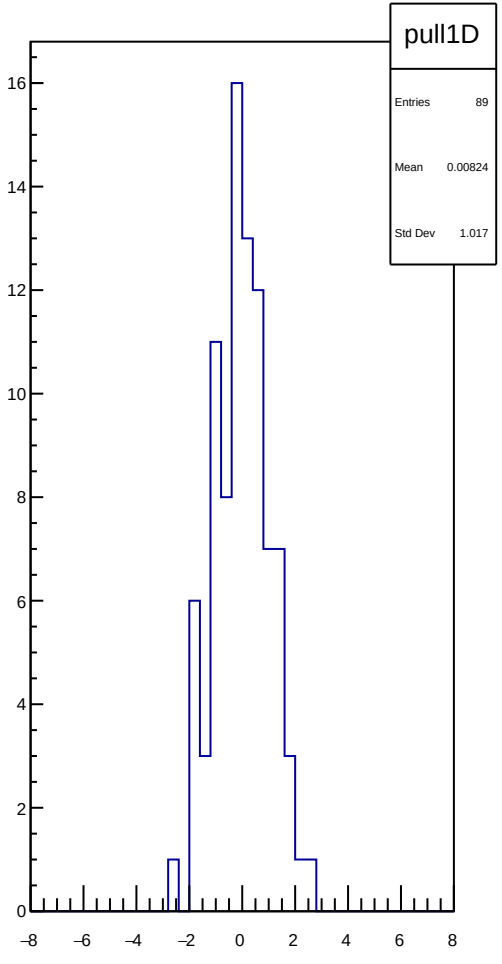

dit_asym_at2_dd_rms vs run
χ² / ndf 2310 / 88
p0 1745 ± 1.305
1850
1800
1750
1700
1650
1600
1550

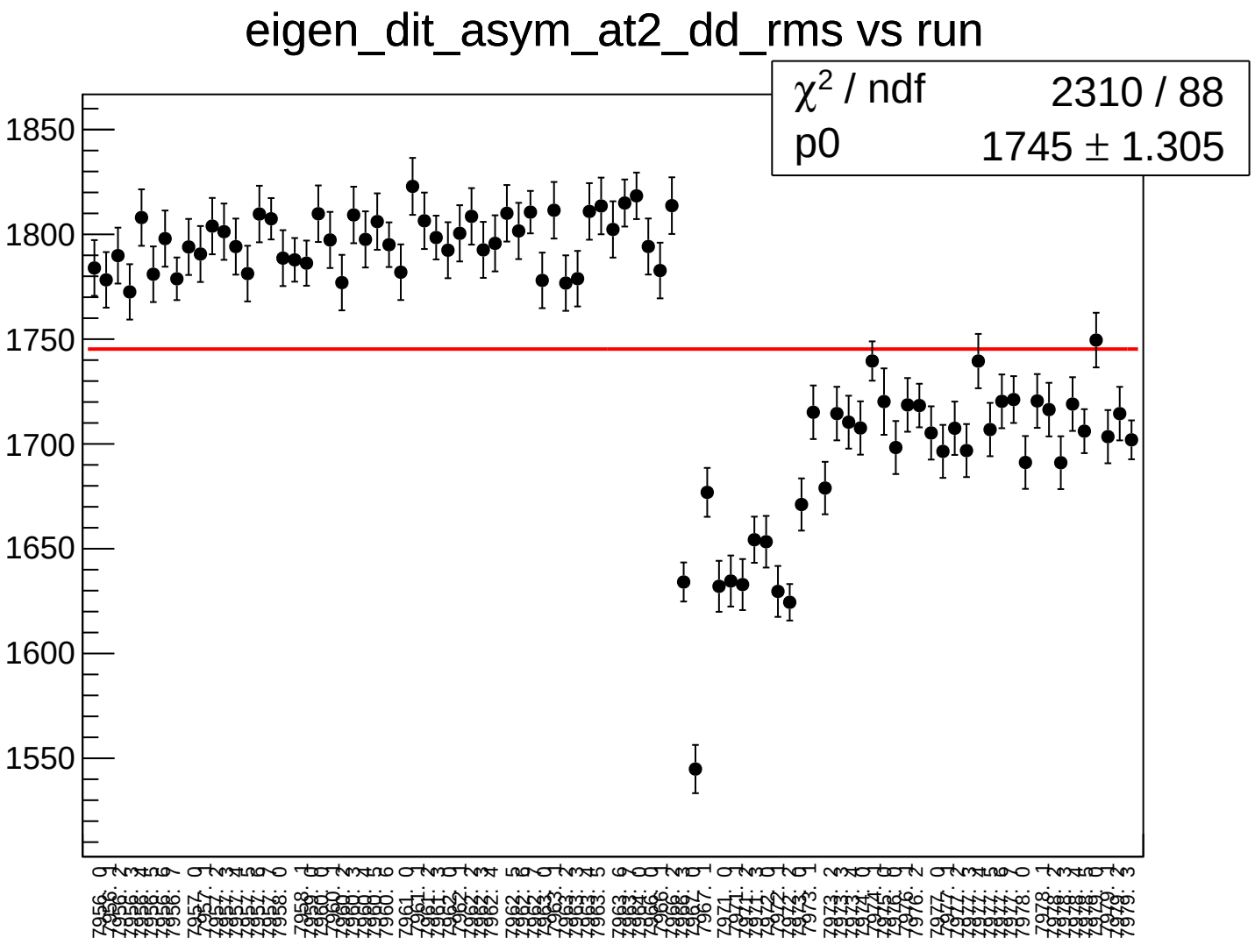

asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 105.1 / 88
p0 −618.7 ± 3083
pull
Entries 89
Mean −998.2
Std Dev 0

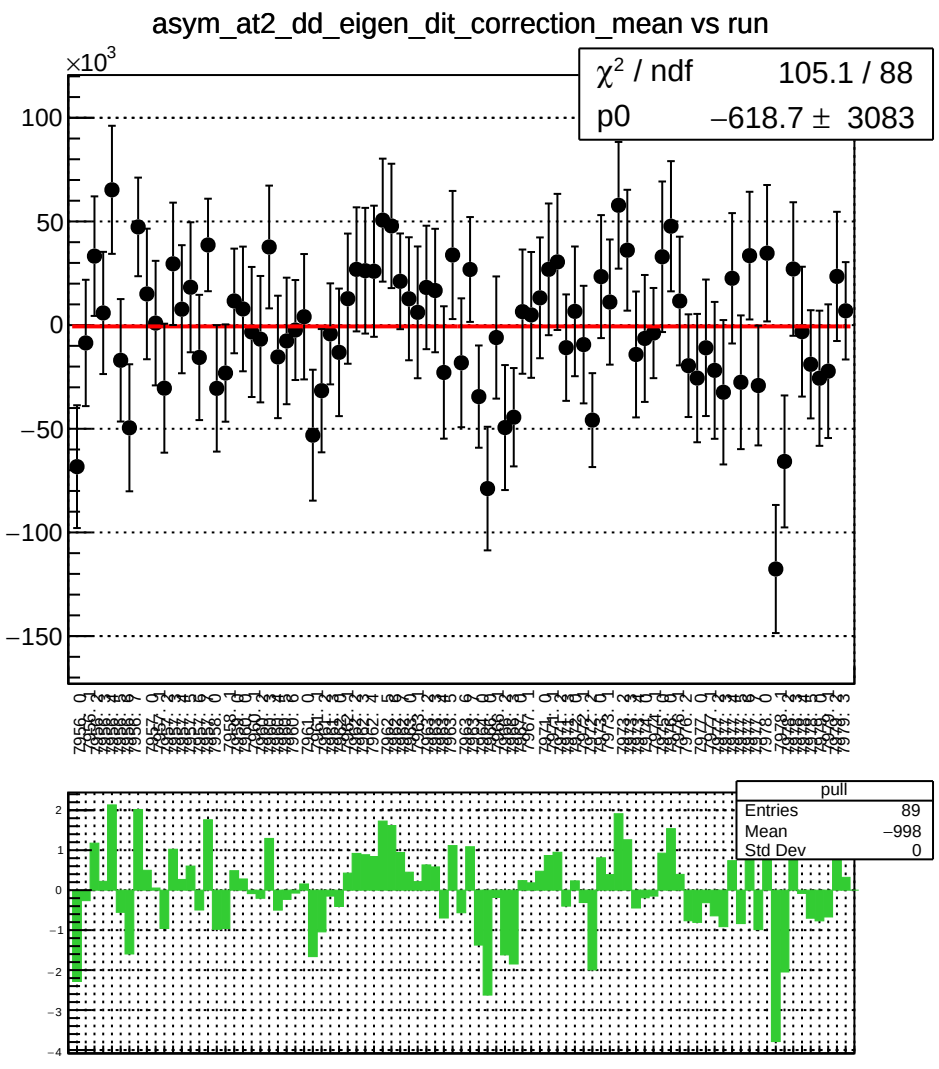

pull1D
Entries 89
Mean 0.003227
Std Dev 1.087

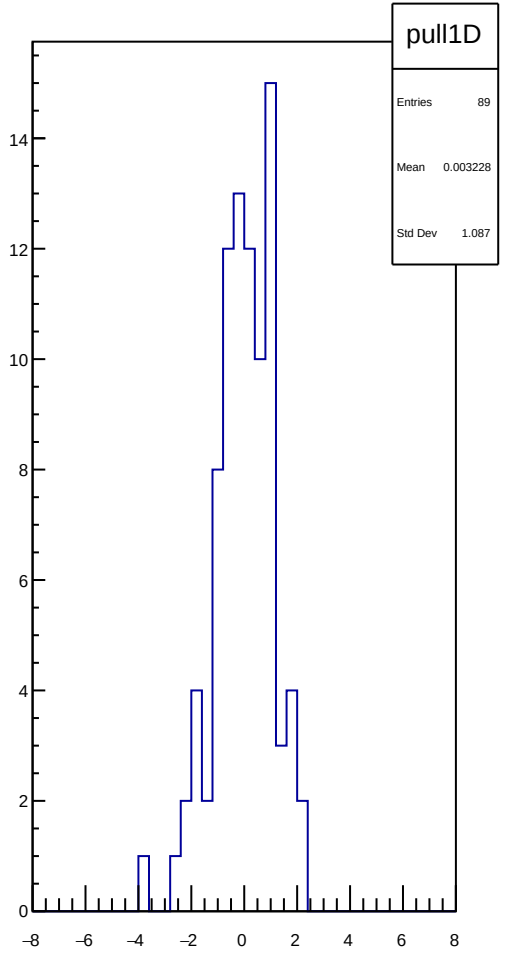

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 2181 / 88
p0 2915 ± 2.18
3300
3200
3100
3000
2900
2800
2700

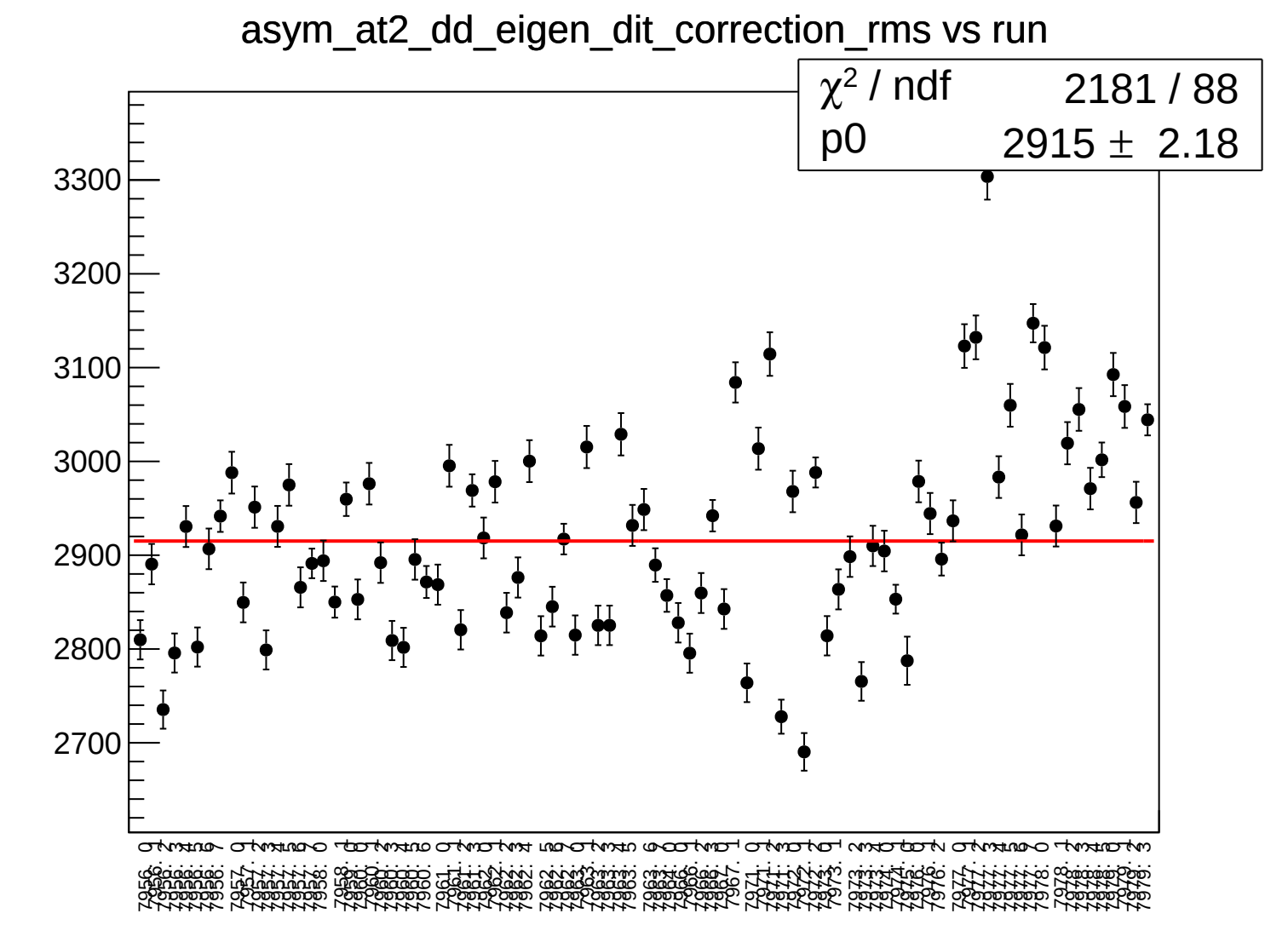

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 92.01 / 88
p0 −533.7 ± 1846
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −29.51
Std Dev 0
2
1
0
−1
−2

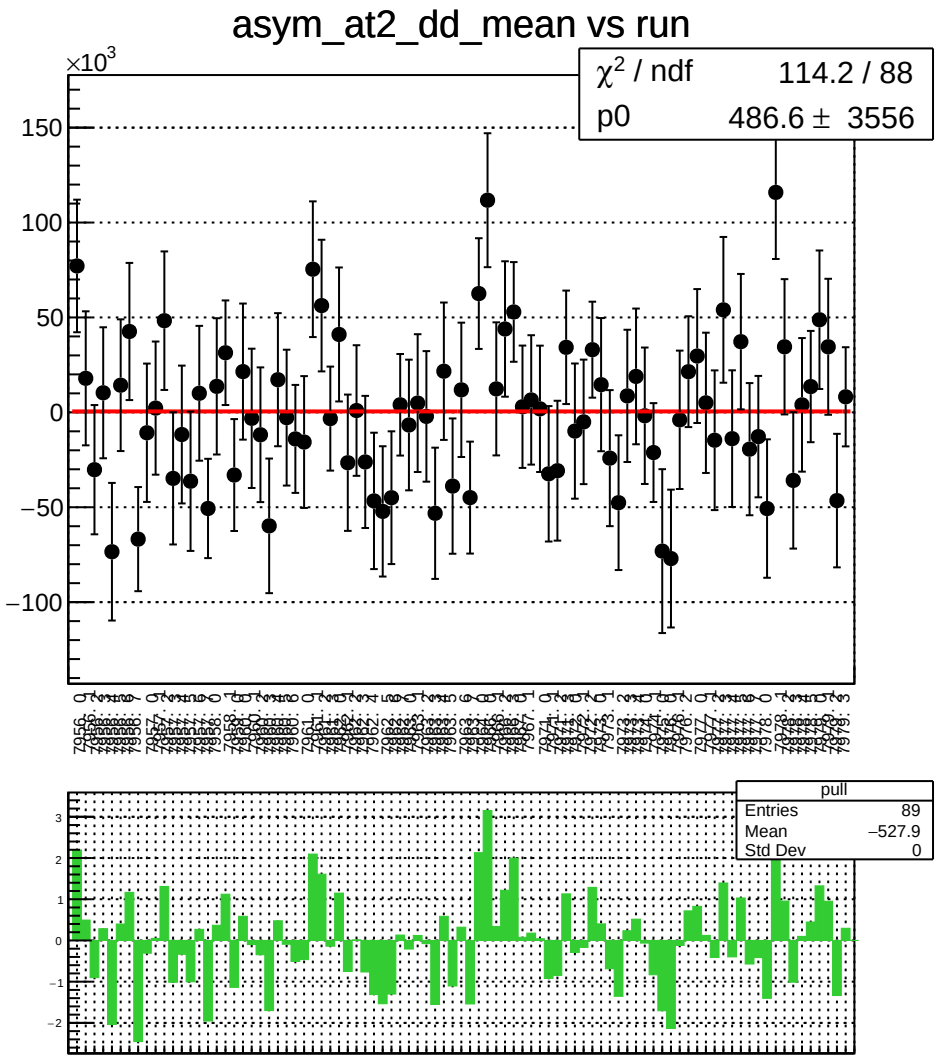

pull1D
Entries 89
Mean 0.00824
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

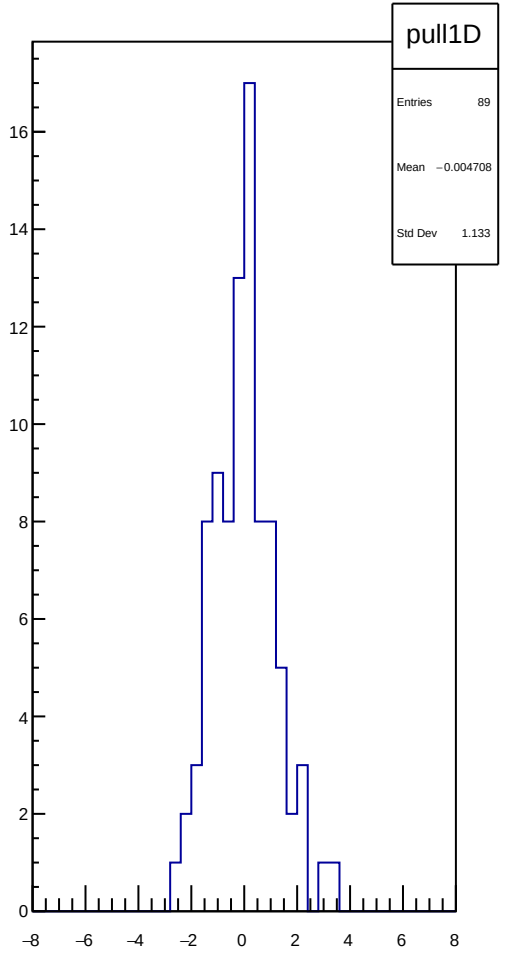

eigen_dit_asym_at2_dd_rms vs run
$\chi^2$ / ndf 2310 / 88
p0 1745 ± 1.305
1850
1800
1750
1700
1650
1600
1550

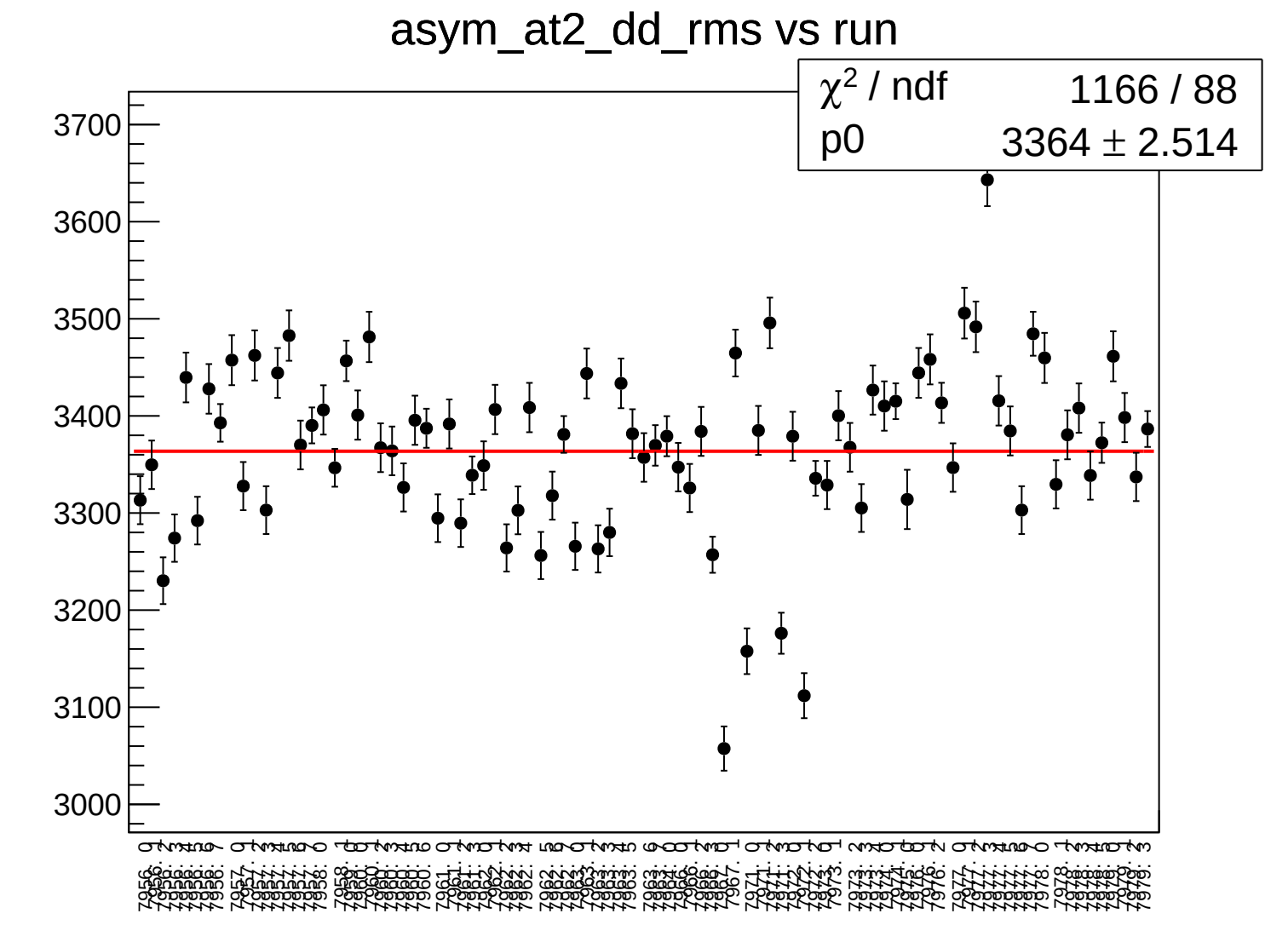

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 105.1 / 88
p0 −618.7 ± 3083
100
50
0
−50
−100
−150
pull
Entries 89
Mean −998
Std Dev 0
2
1
0
−1
−2
−3
−4

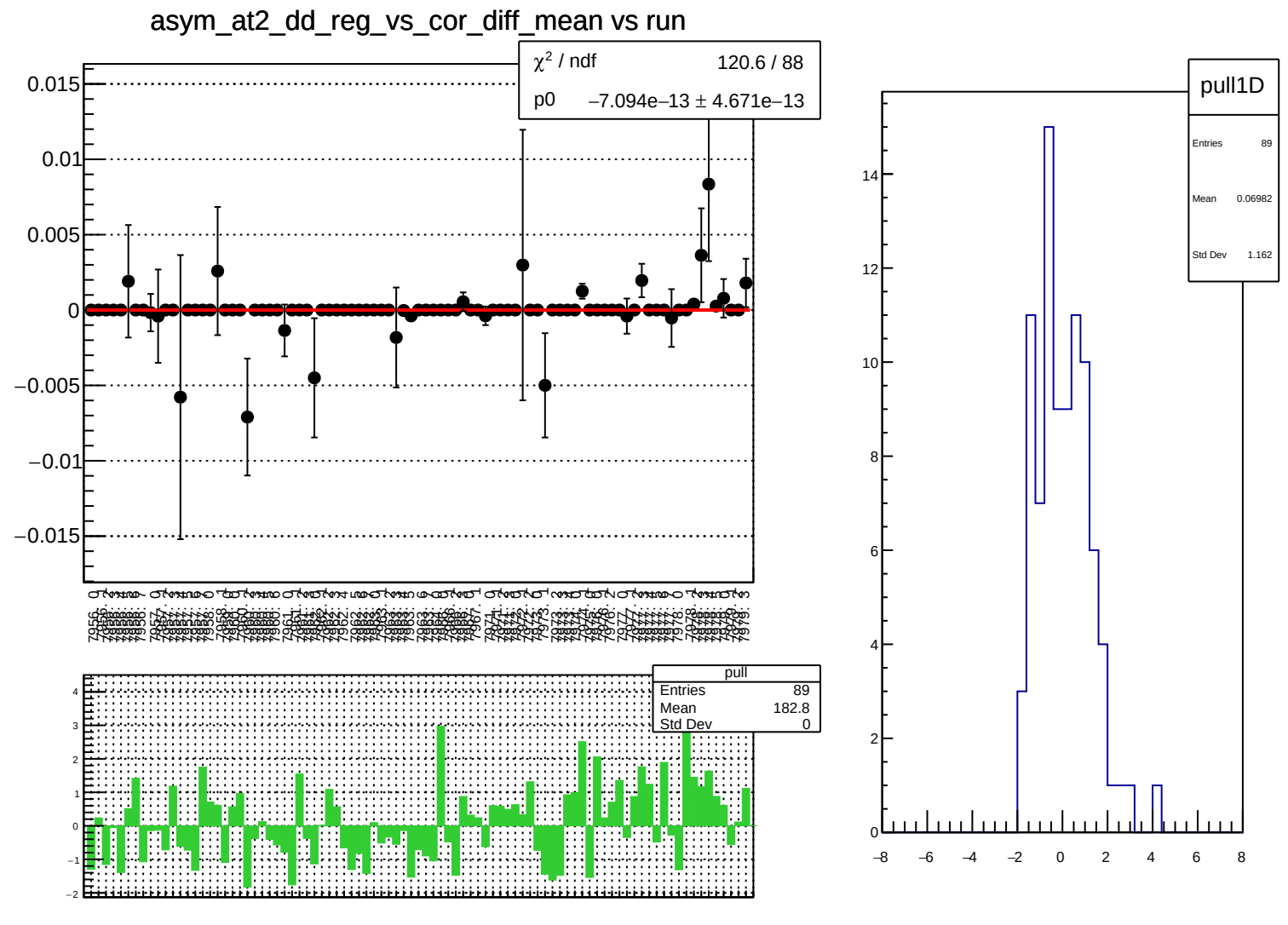

pull1D
Entries 89
Mean 0.003228
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

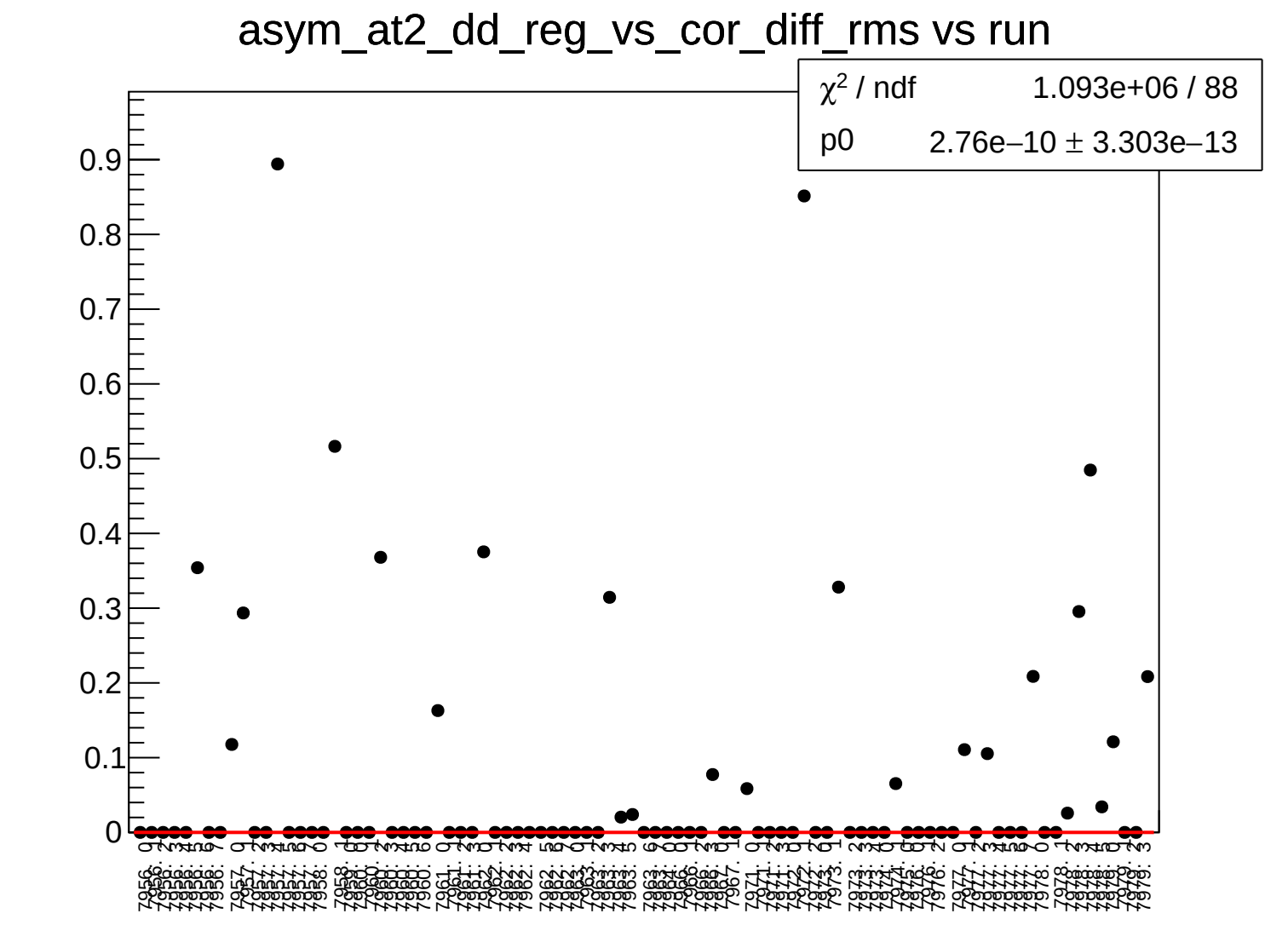

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2181 / 88
p0 2915 ± 2.18
3300
3200
3100
3000
2900
2800
2700

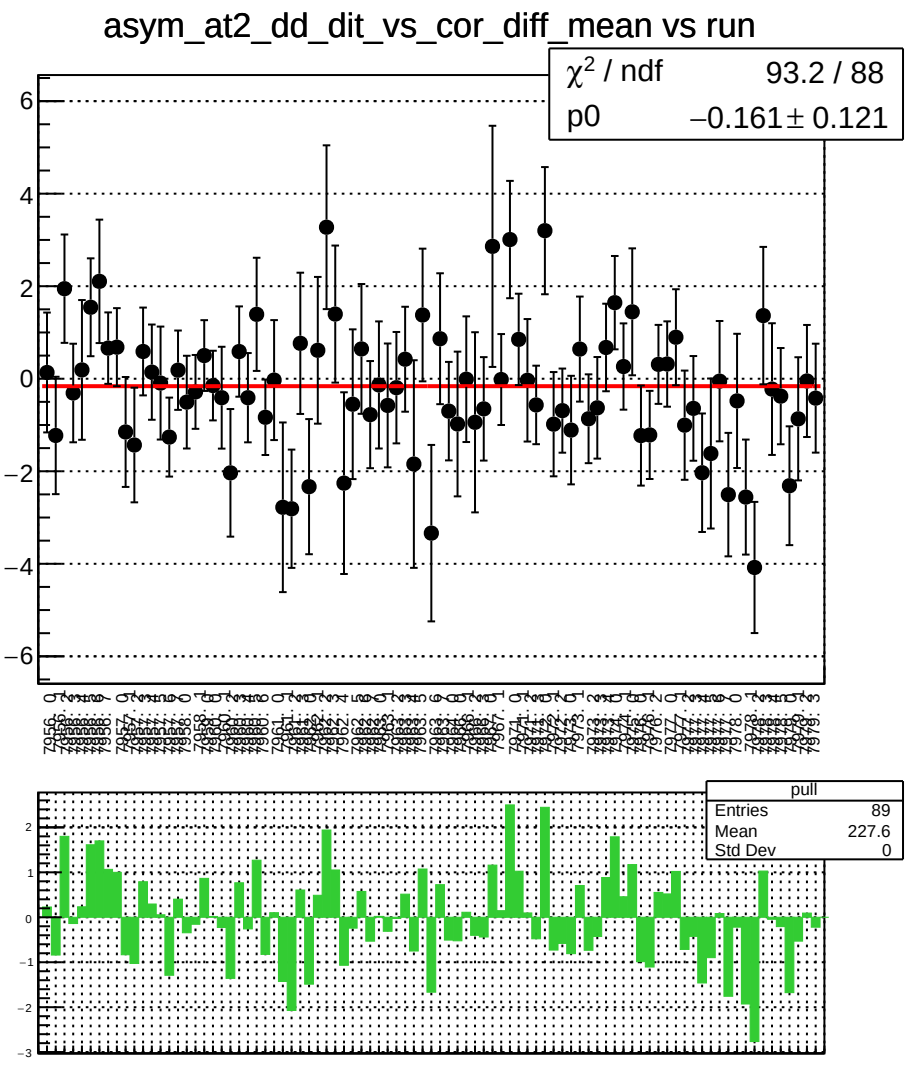

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 114.2 / 88
p0 486.6 ± 3556
150
100
50
0
−50
−100
pull
Entries 89
Mean −527.9
Std Dev 0
3
2
1
0
−1
−2

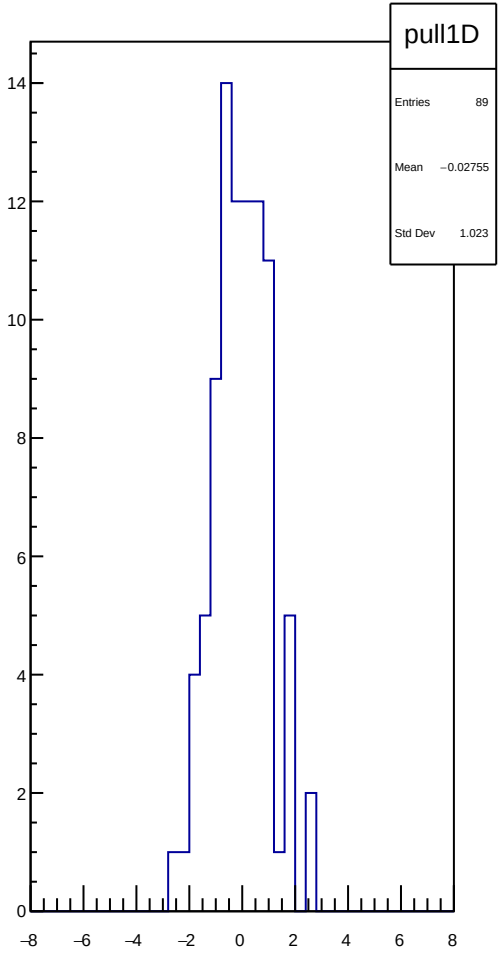

pull1D
Entries 89
Mean −0.004708
Std Dev 1.133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

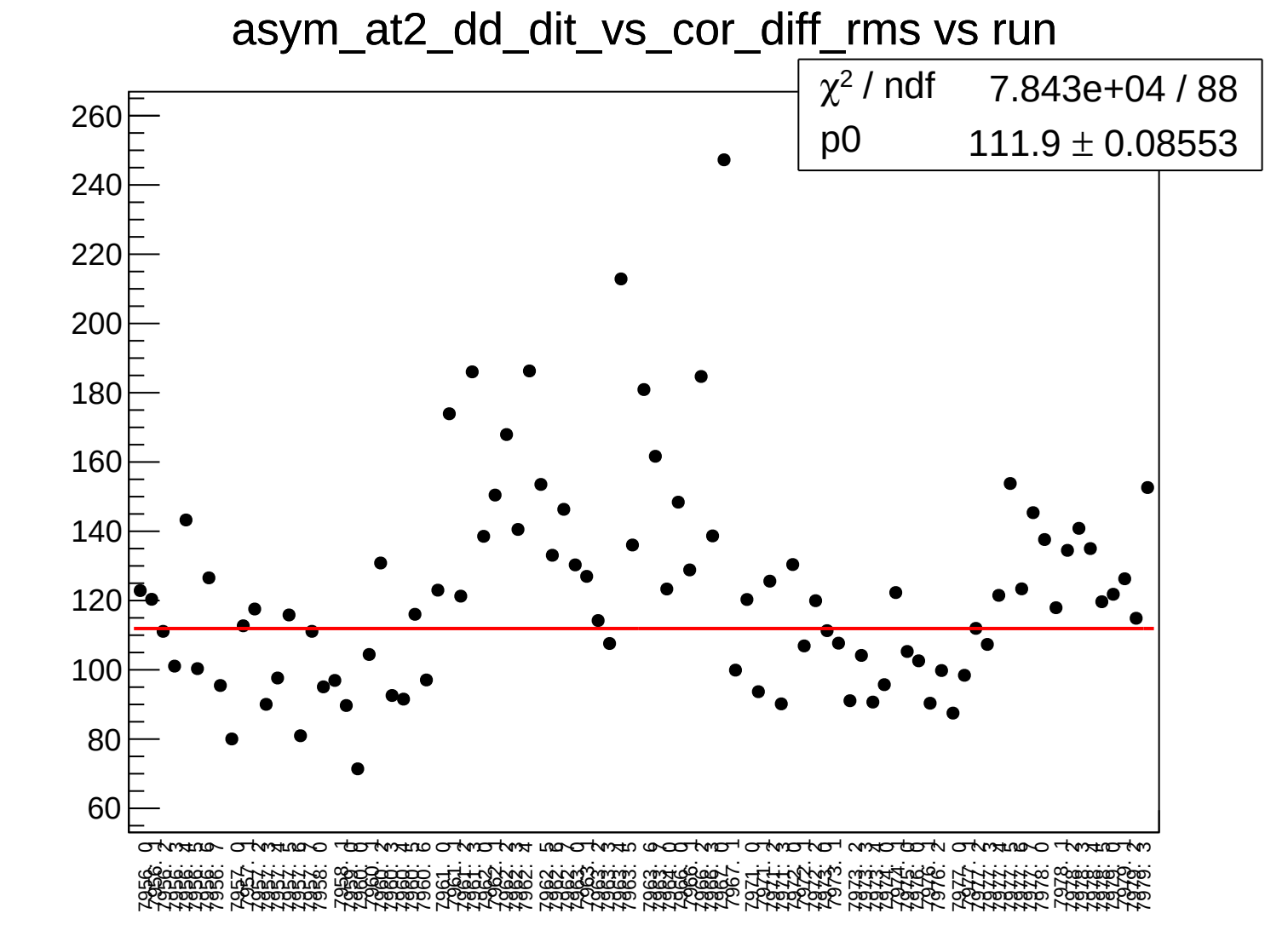

asym_at2_dd_rms vs run
χ² / ndf 1166 / 88
p0 3364 ± 2.514
3700
3600
3500
3400
3300
3200
3100
3000


asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 120.6 / 88
p0 −7.094e−13 ± 4.671e−13
pull
Entries 89
Mean 182.8
Std Dev 0
pull1D
Entries 89
Mean 0.06982
Std Dev 1.162

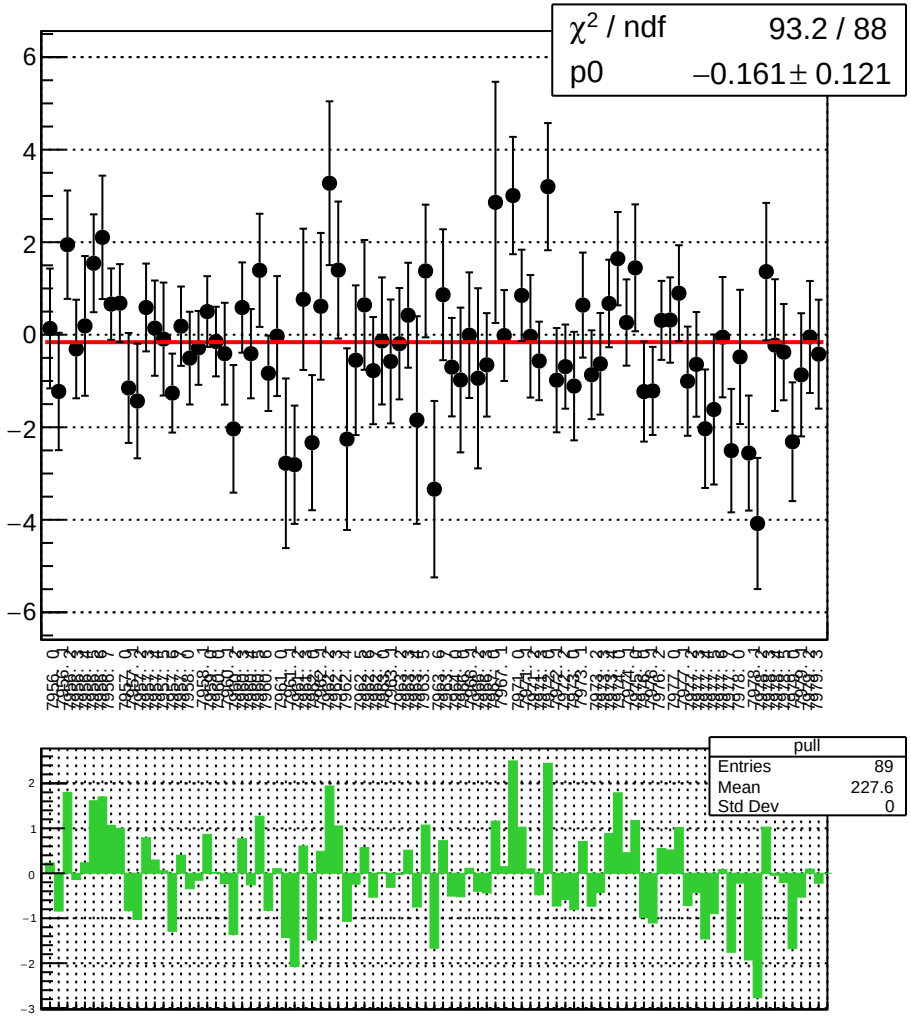

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.093e+06 / 88
p0 2.76e−10 ± 3.303e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

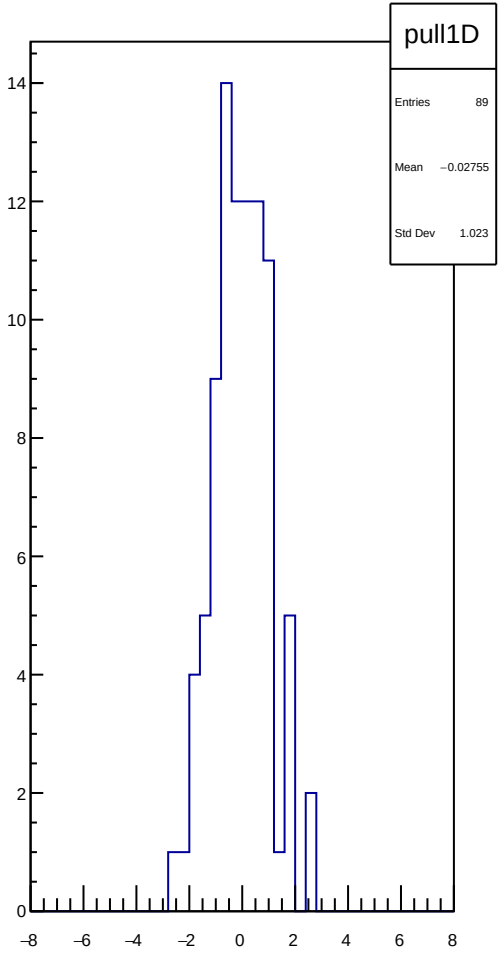

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.2 / 88
p0 −0.161 ± 0.121
pull
Entries 89
Mean 227.6
Std Dev 0

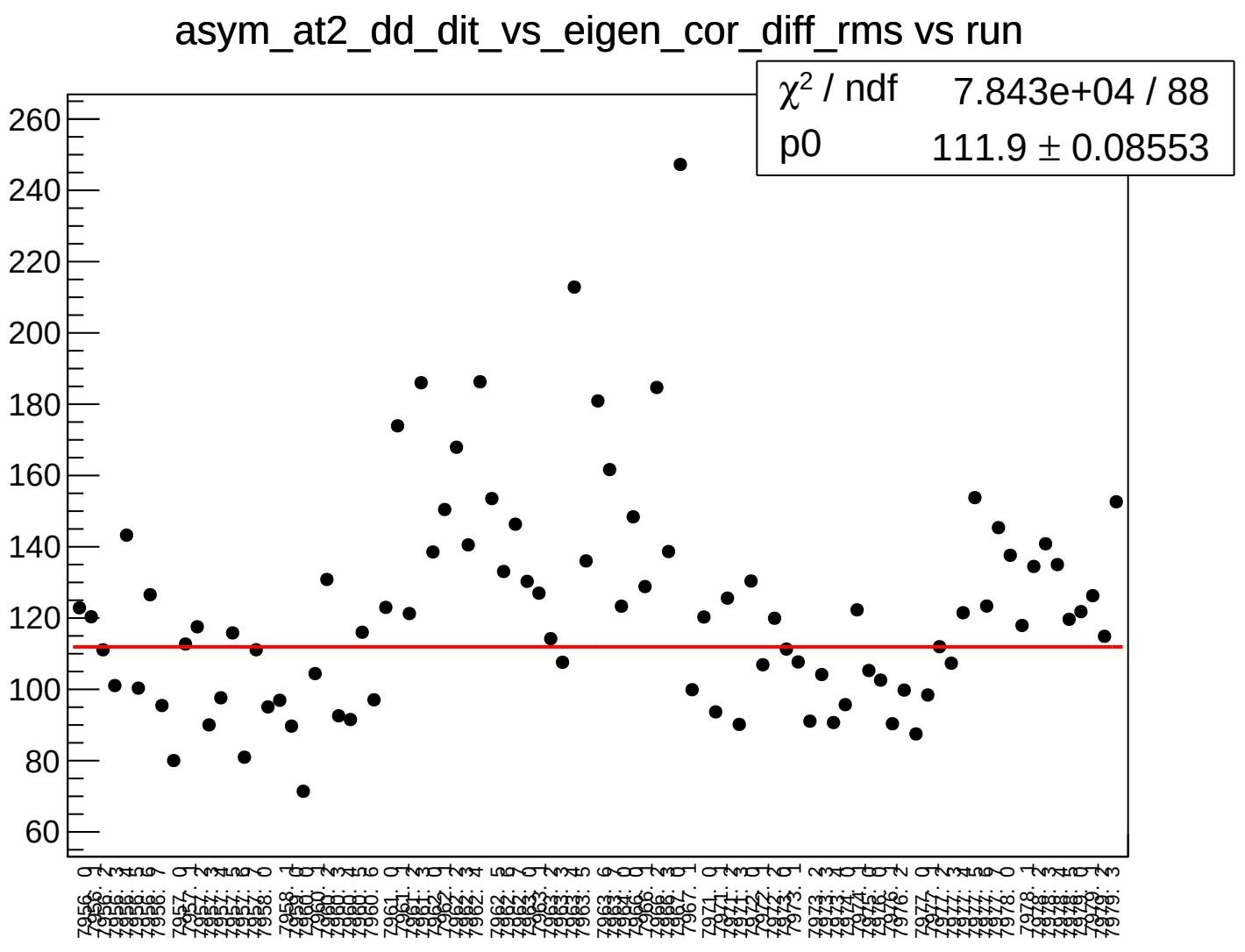

pull1D
Entries 89
Mean −0.02755
Std Dev 1.023

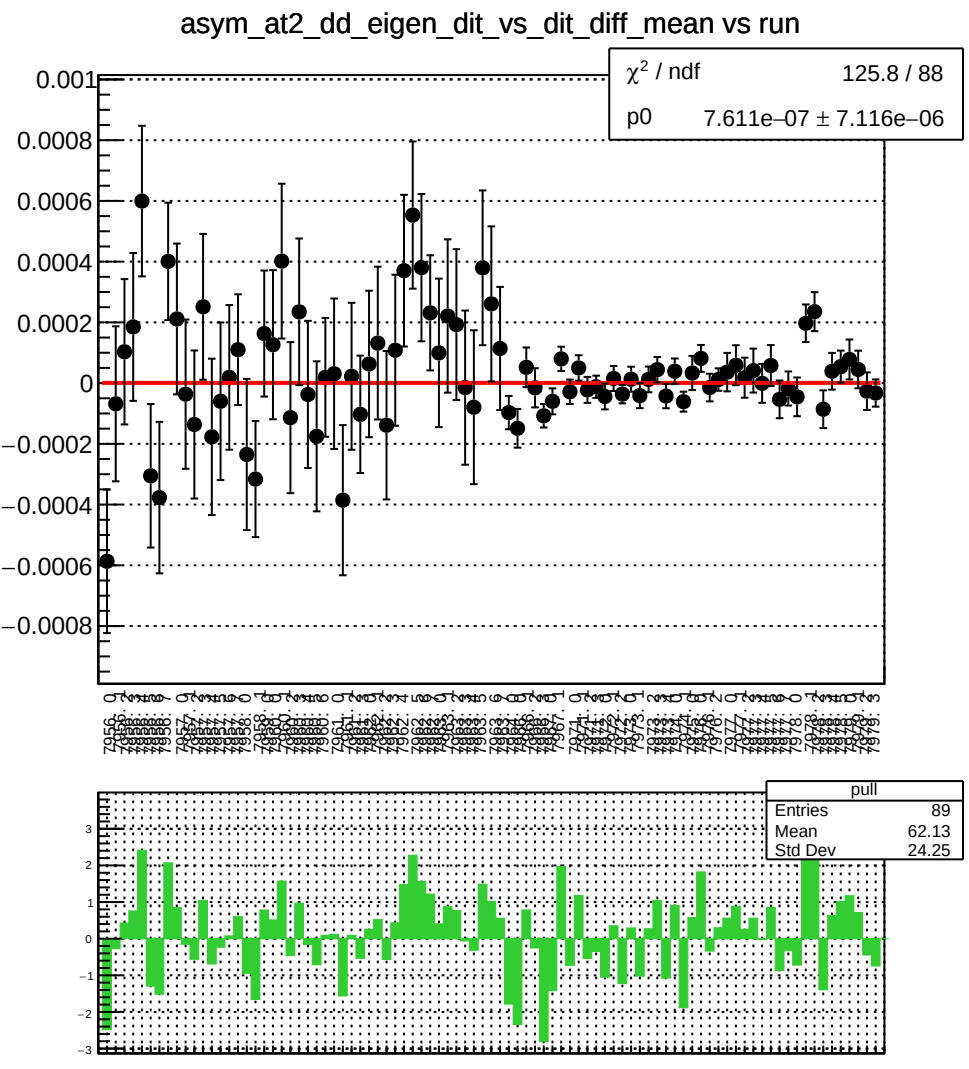

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.843e+04 / 88
p0 111.9 ± 0.08553
260
240
220
200
180
160
140
120
100
80
60

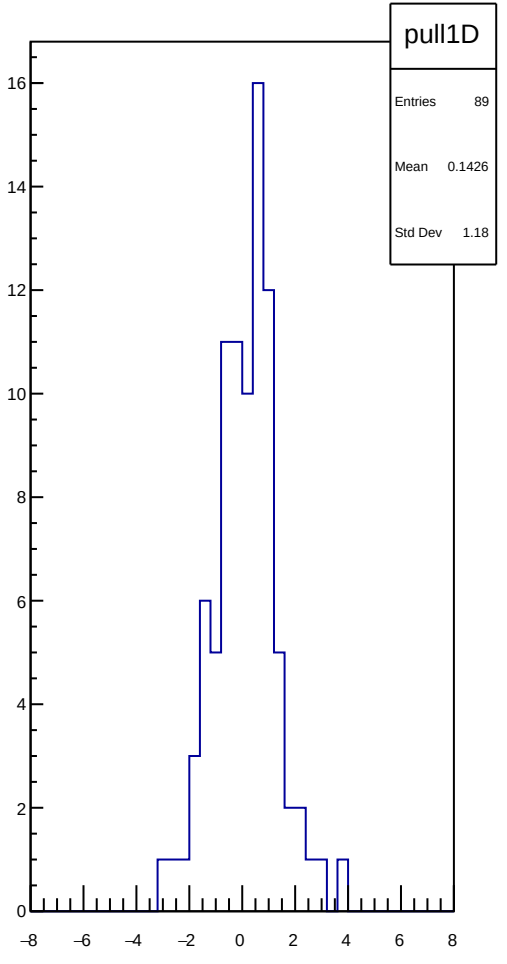
asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run

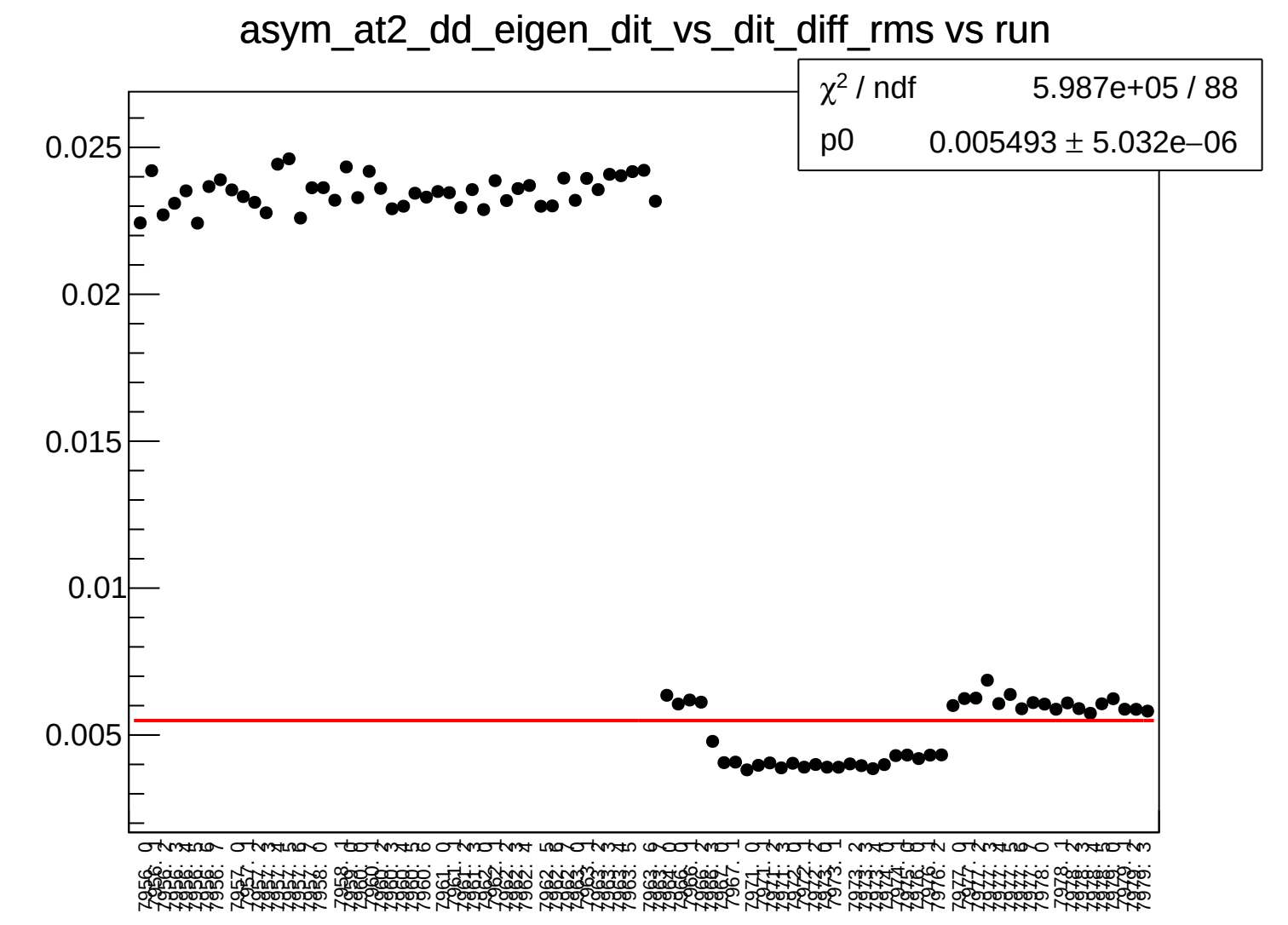


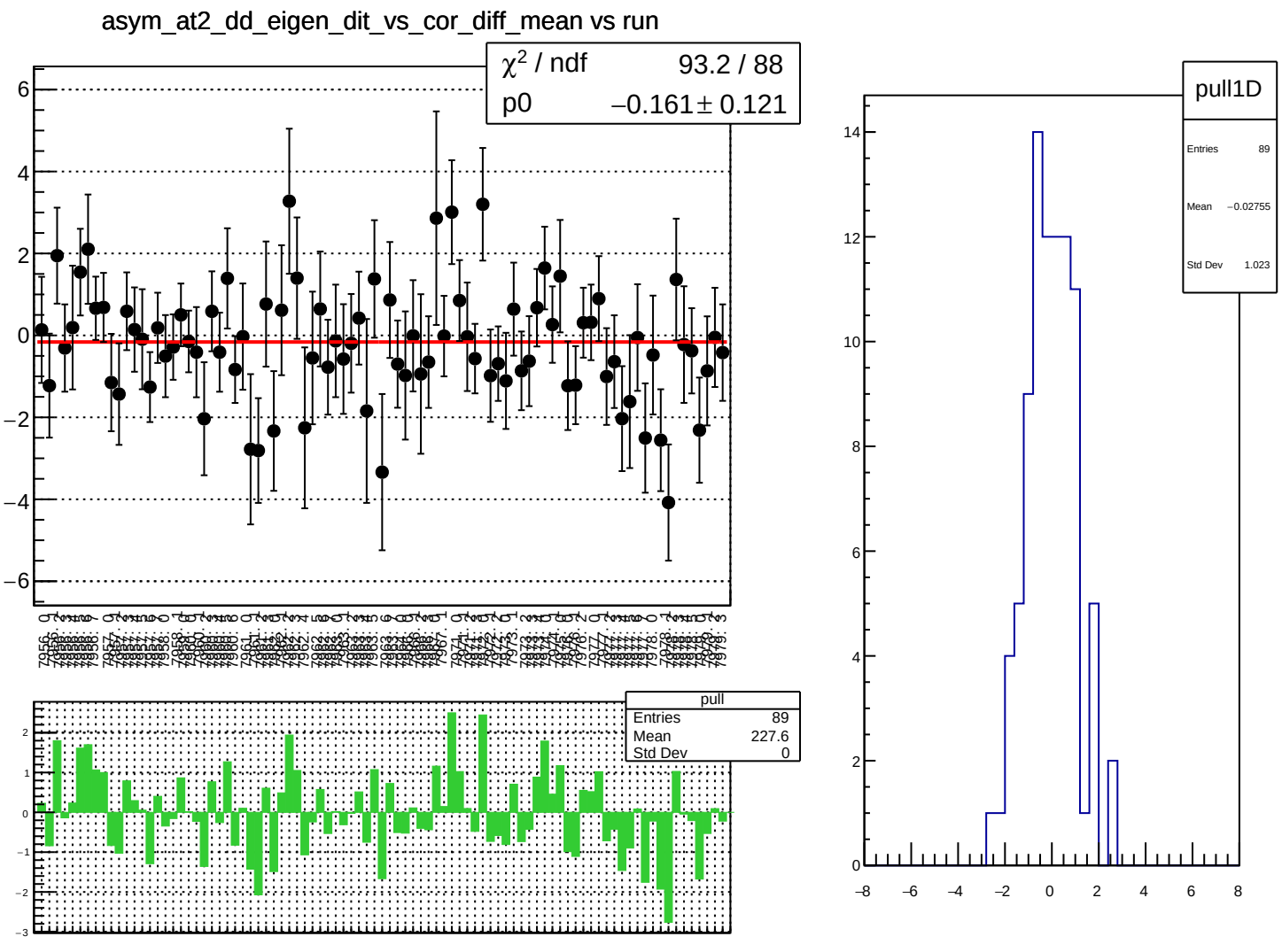



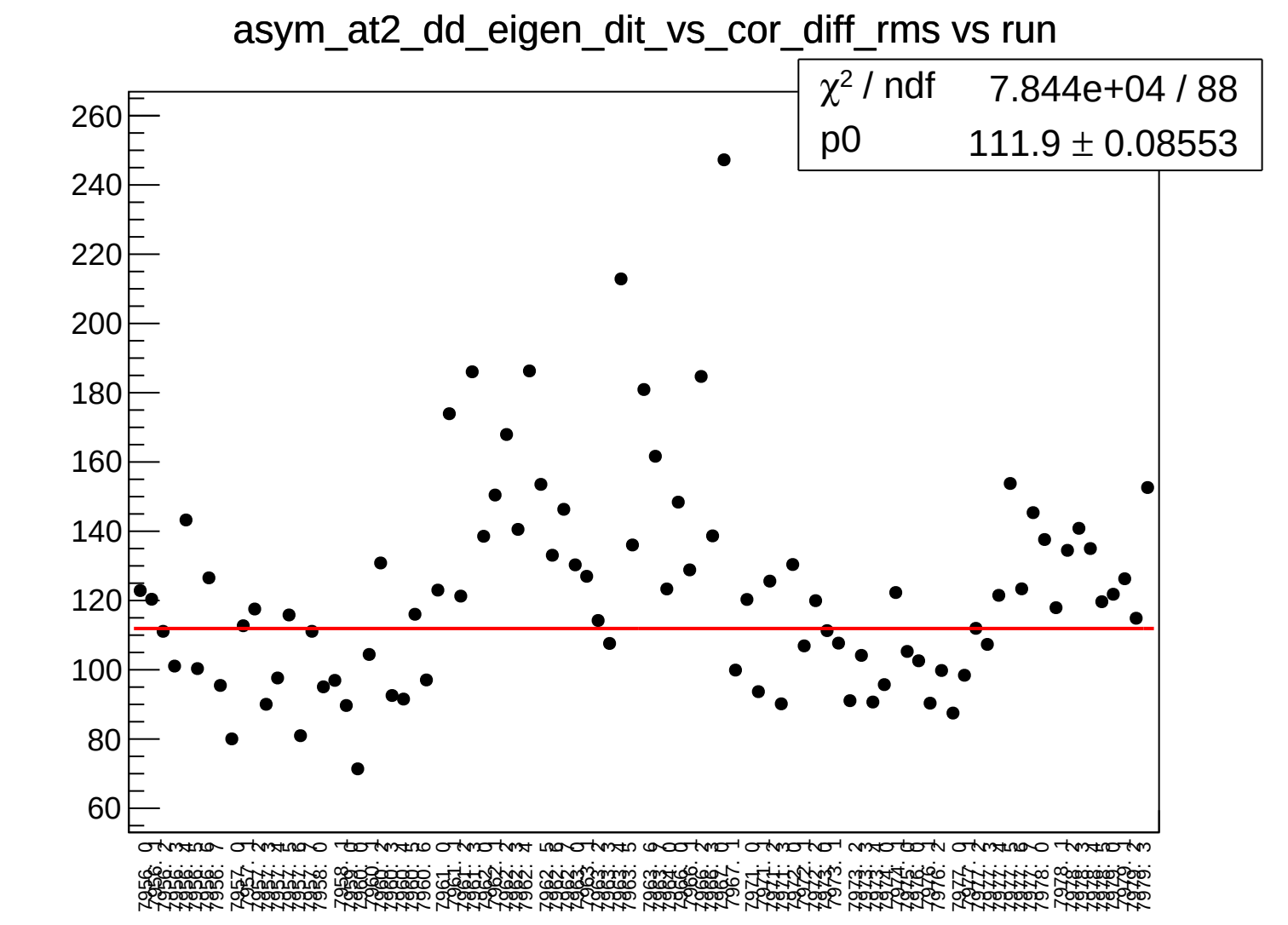

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.843e+04 / 88
p0 111.9 ± 0.08553
260
240
220
200
180
160
140
120
100
80
60

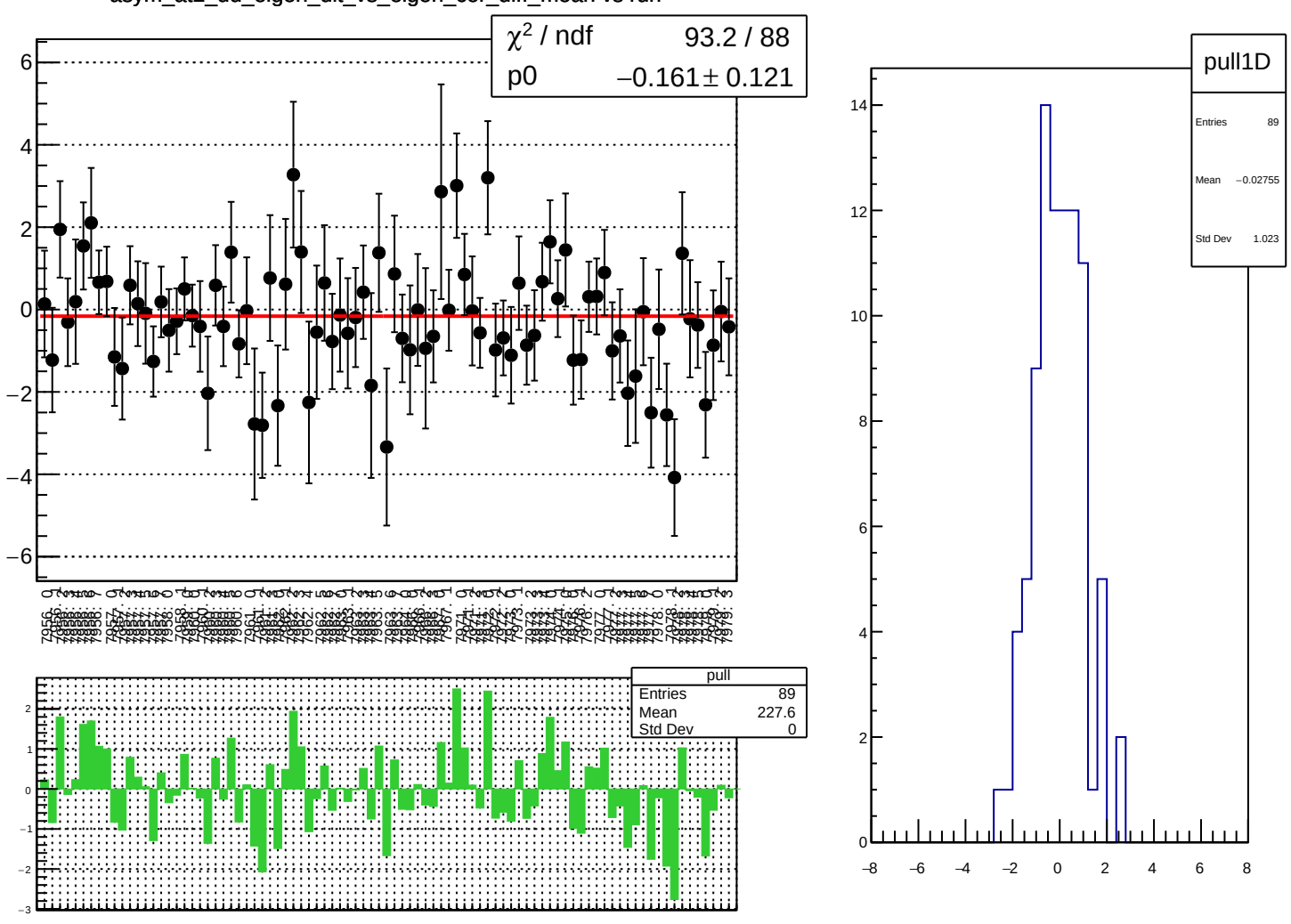

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 125.8 / 88
p0 7.611e−07 ± 7.116e−06
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 89
Mean 62.13
Std Dev 24.25
3
2
1
0
−1
−2
−3

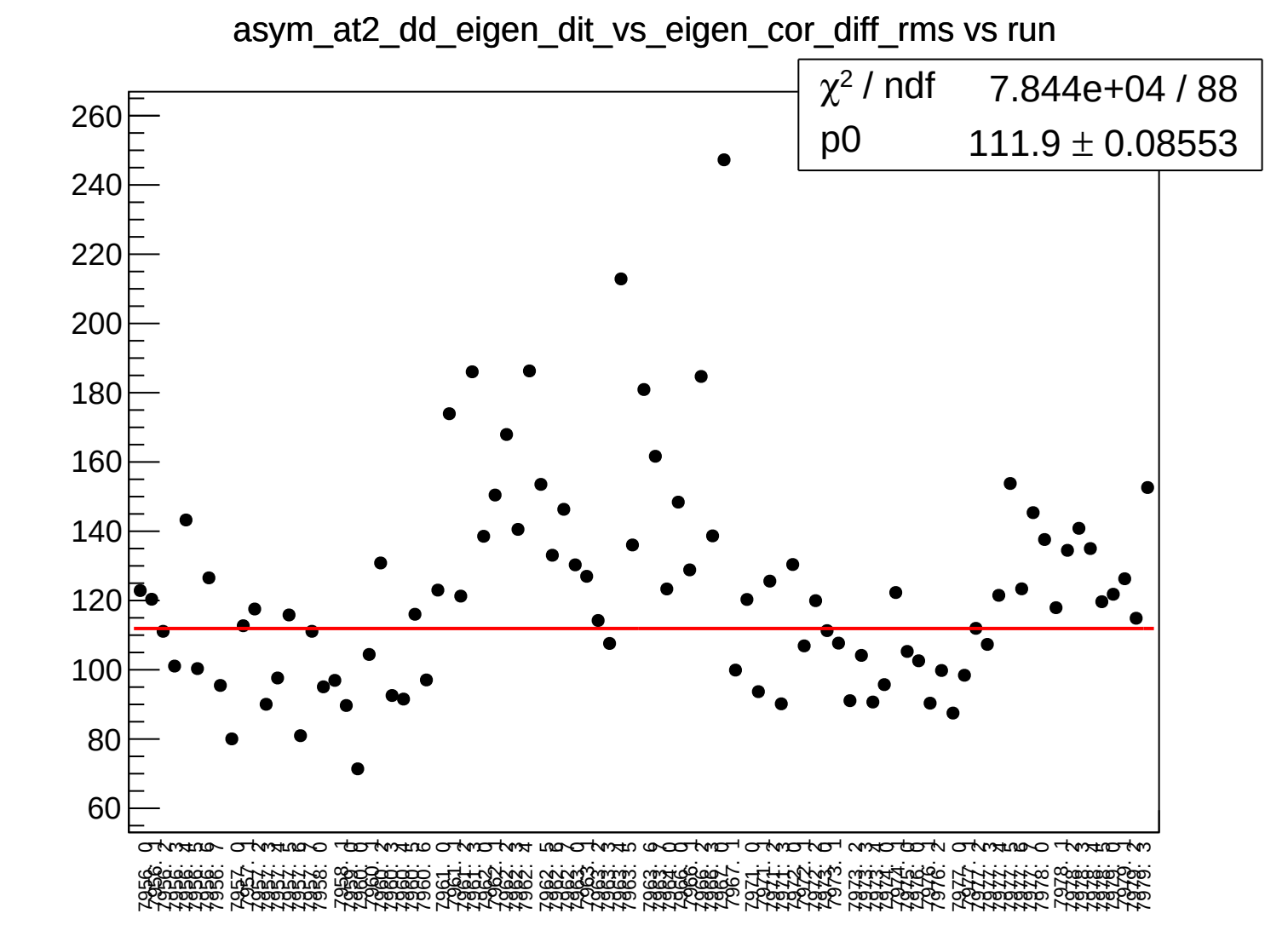

pull1D
Entries 89
Mean 0.1426
Std Dev 1.18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

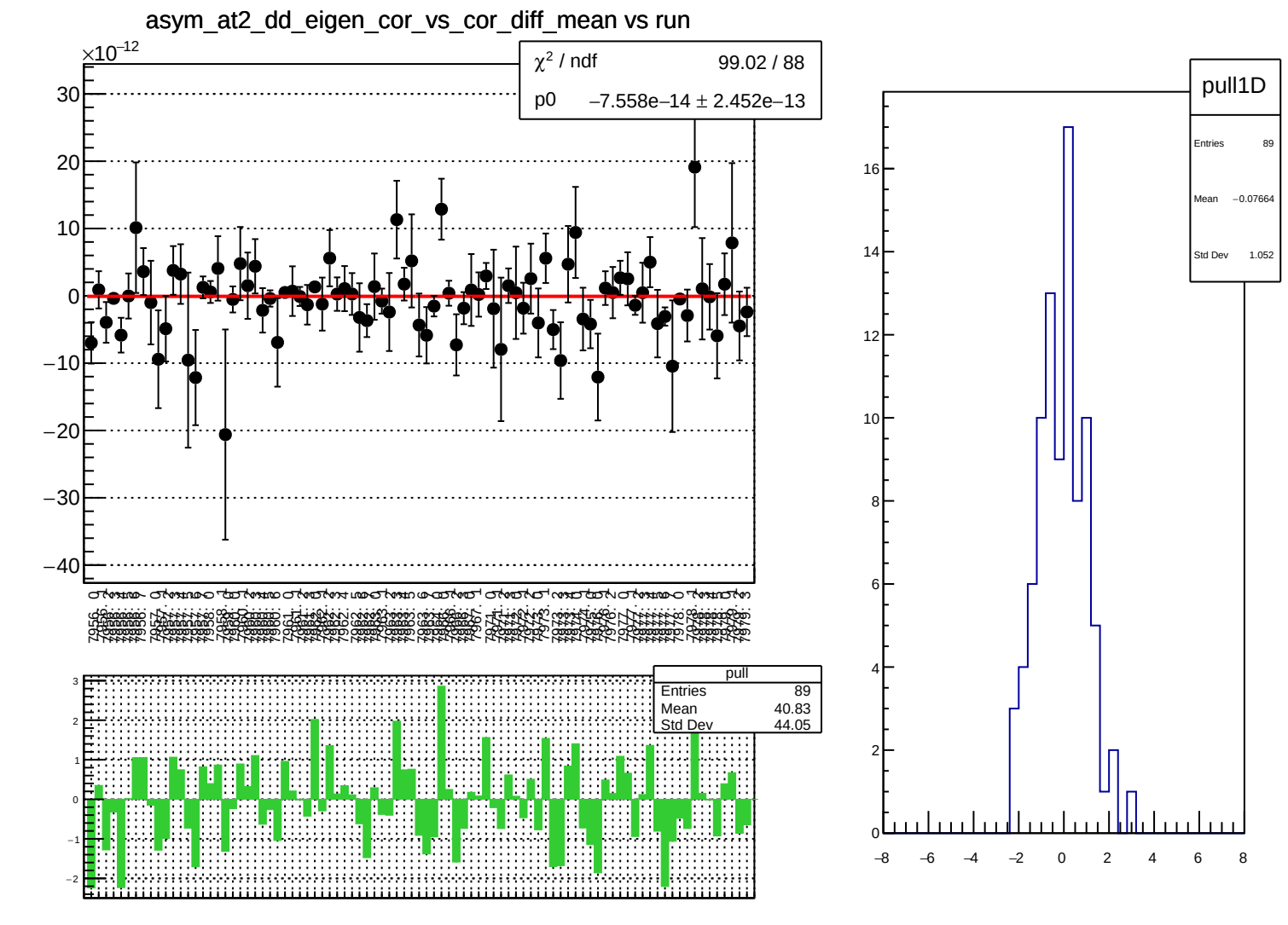

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.987e+05 / 88
p0 0.005493 ± 5.032e−06
0.025
0.02
0.015
0.01
0.005

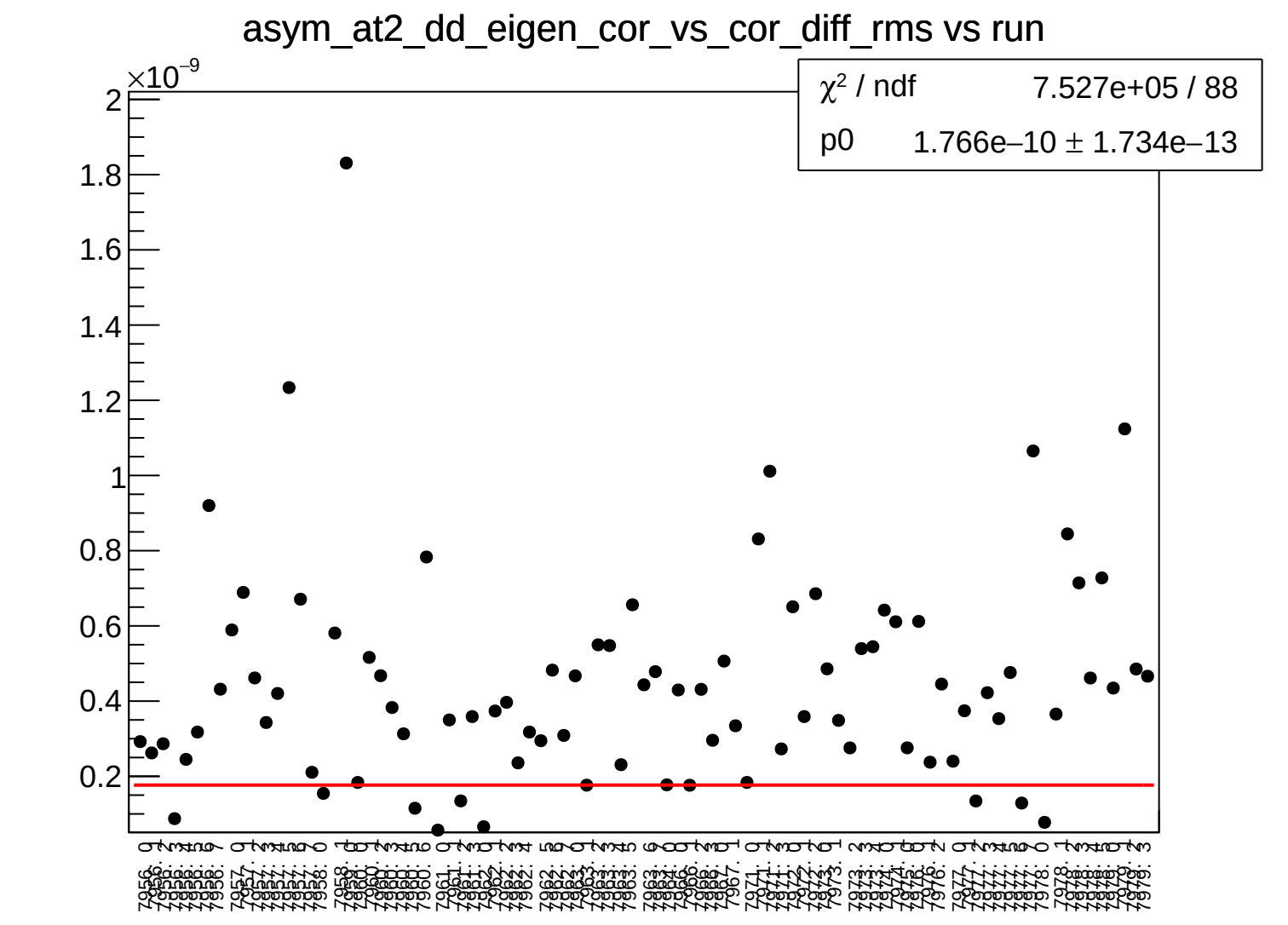

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
$\chi^2$ / ndf 93.2 / 88
p0 −0.161 ± 0.121
pull
Entries 89
Mean 227.6
Std Dev 0
pull1D
Entries 89
Mean −0.02755
Std Dev 1.023

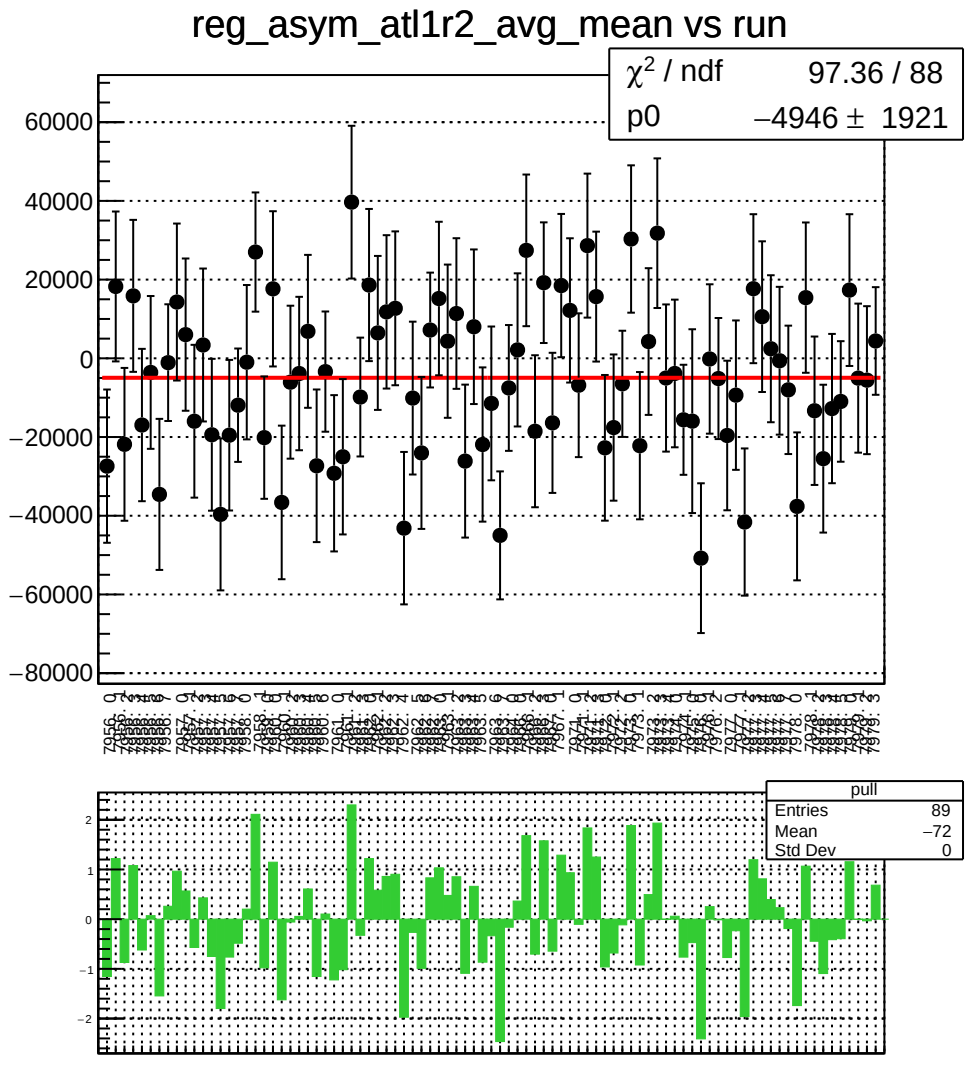

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.844e+04 / 88
p0 111.9 ± 0.08553
260
240
220
200
180
160
140
120
100
80
60

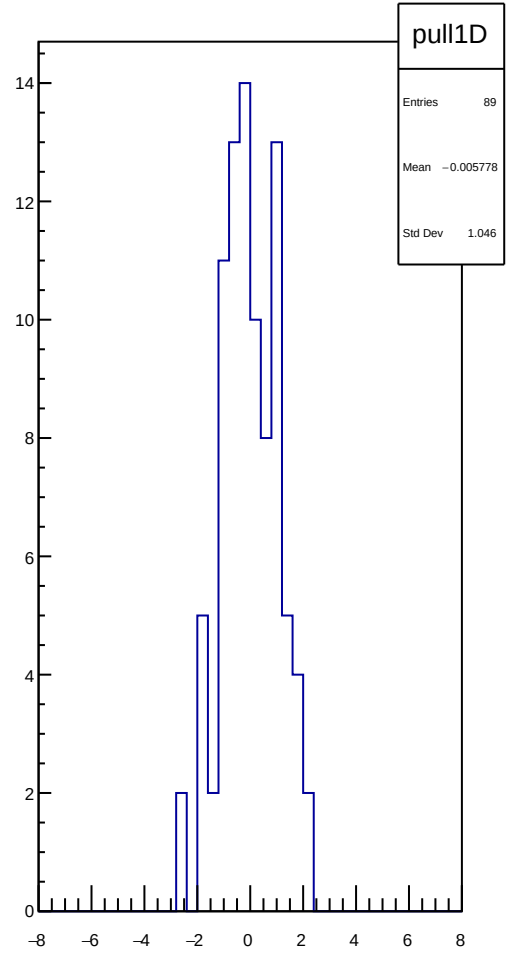

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.2 / 88
p0 −0.161 ± 0.121
pull
Entries 89
Mean 227.6
Std Dev 0
pull1D
Entries 89
Mean −0.02755
Std Dev 1.023

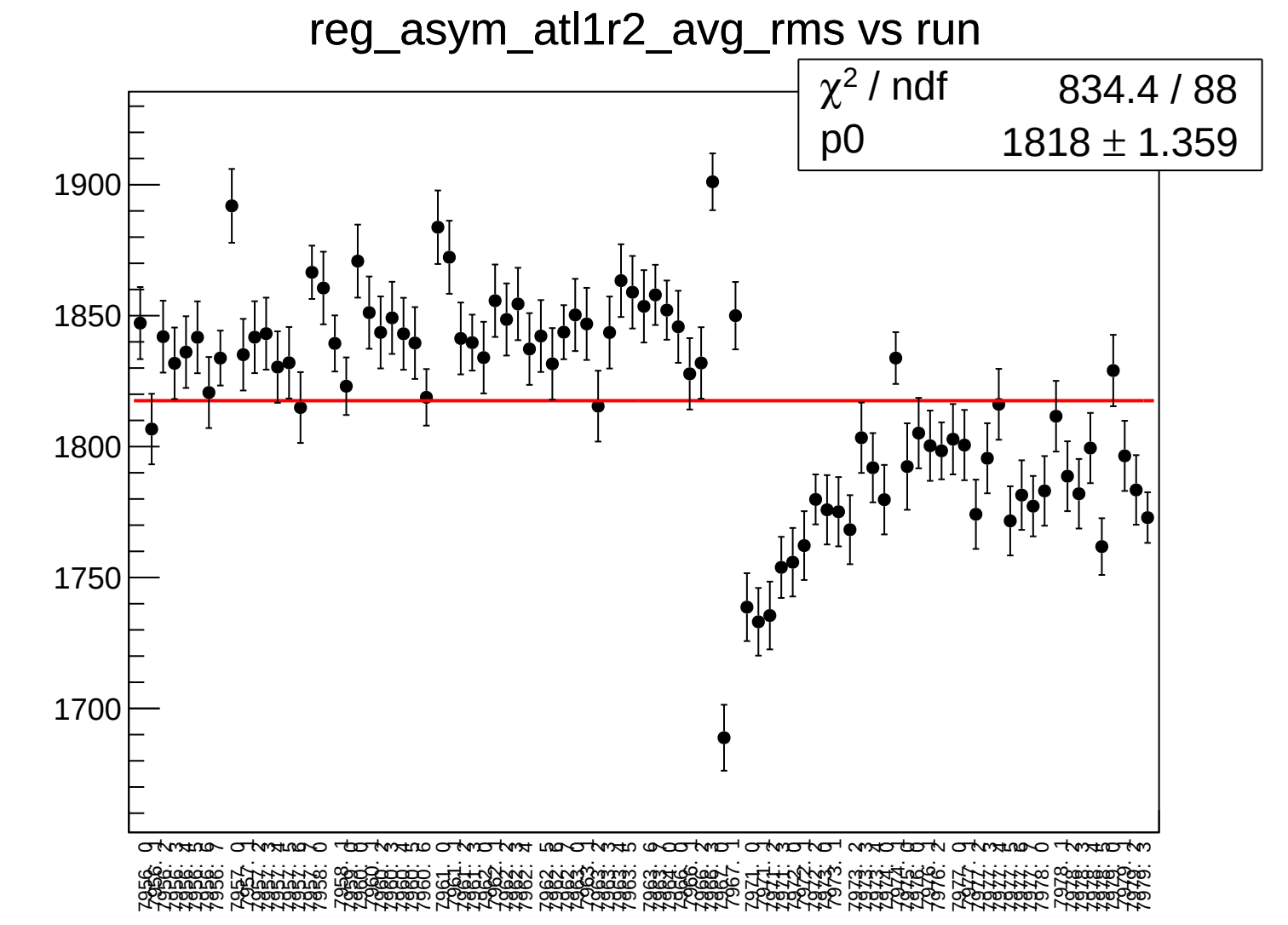

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.844e+04 / 88
p0 111.9 ± 0.08553
260
240
220
200
180
160
140
120
100
80
60

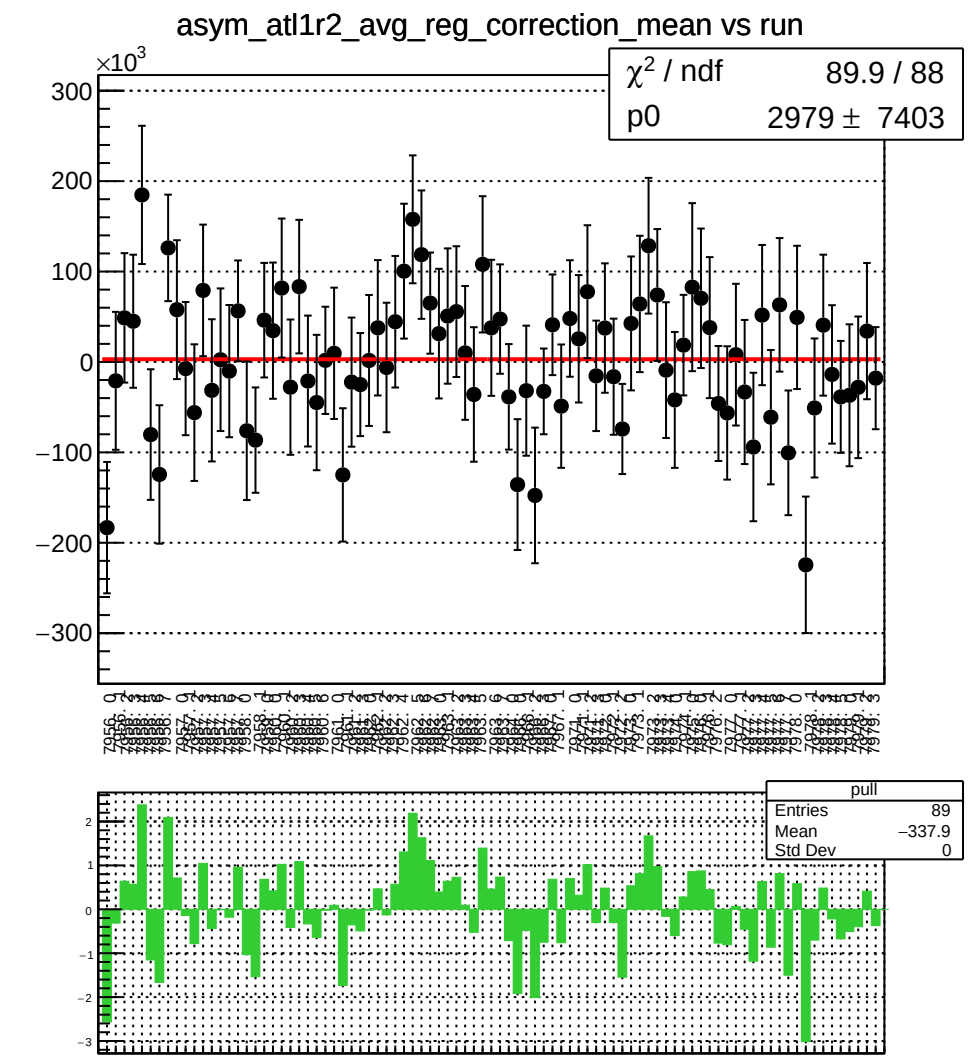

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.02 / 88
p0 −7.558e−14 ± 2.452e−13
pull
Entries 89
Mean 40.83
Std Dev 44.05
pull1D
Entries 89
Mean −0.07664
Std Dev 1.052

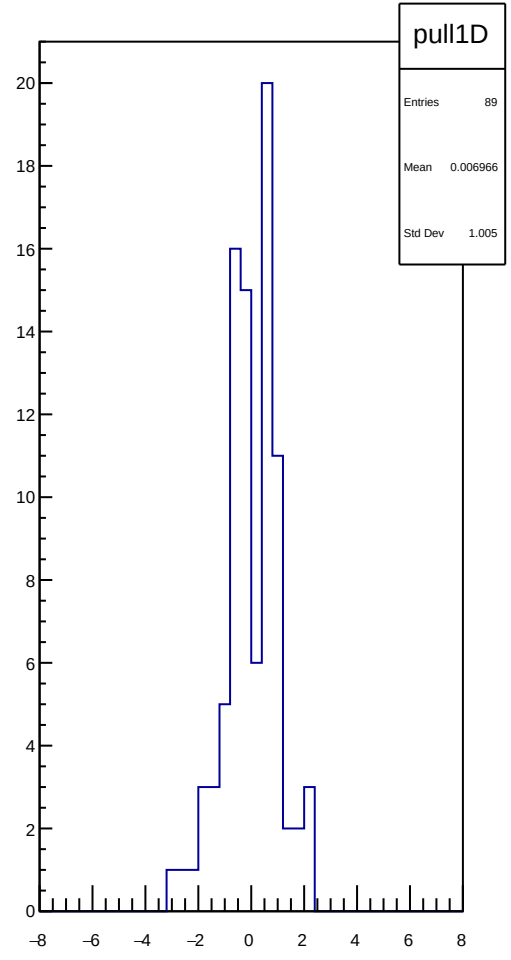

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.527e+05 / 88
p0 1.766e−10 ± 1.734e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

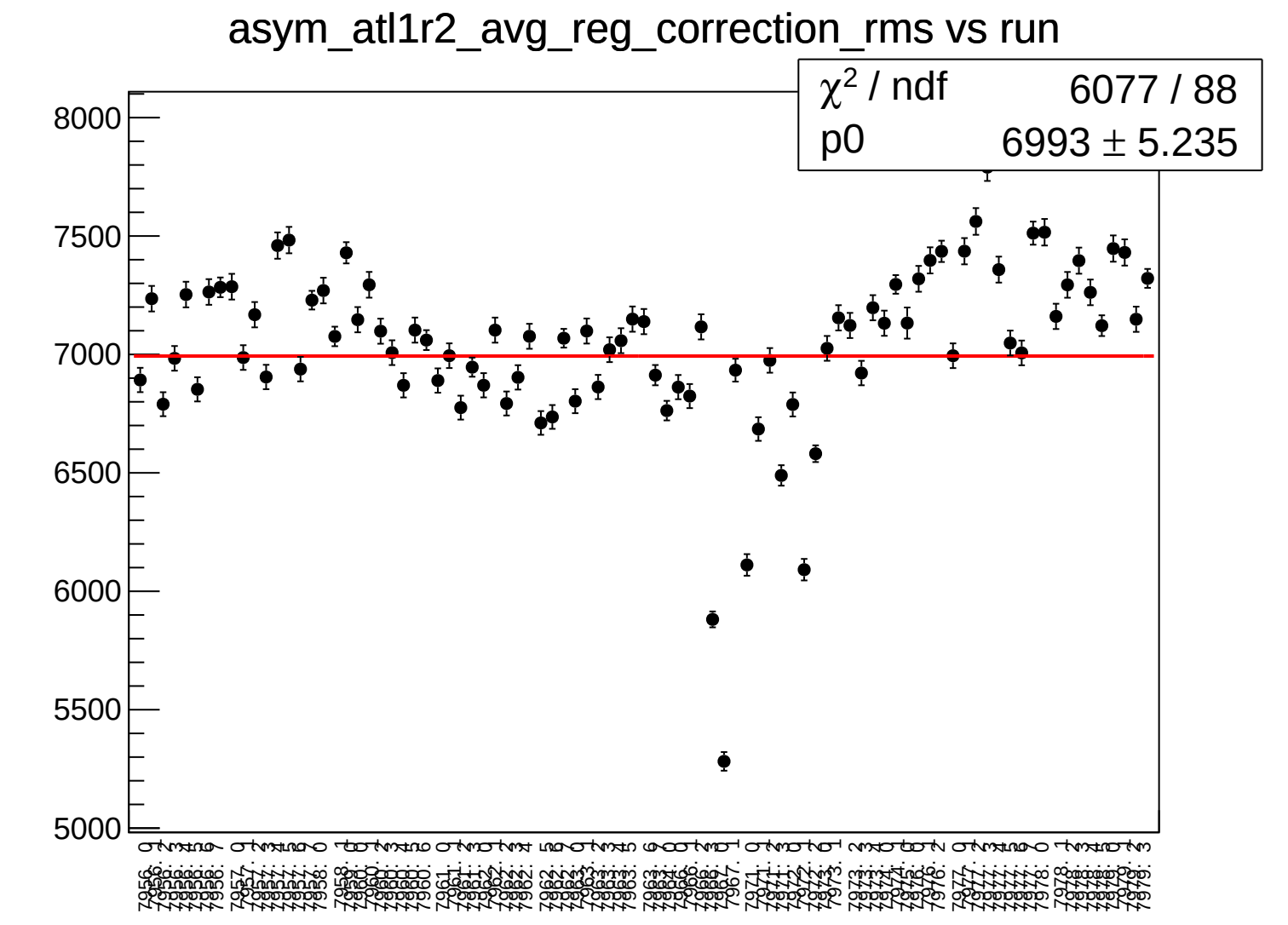

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 97.36 / 88
p0 −4946 ± 1921
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −72
Std Dev 0
2
1
0
−1
−2

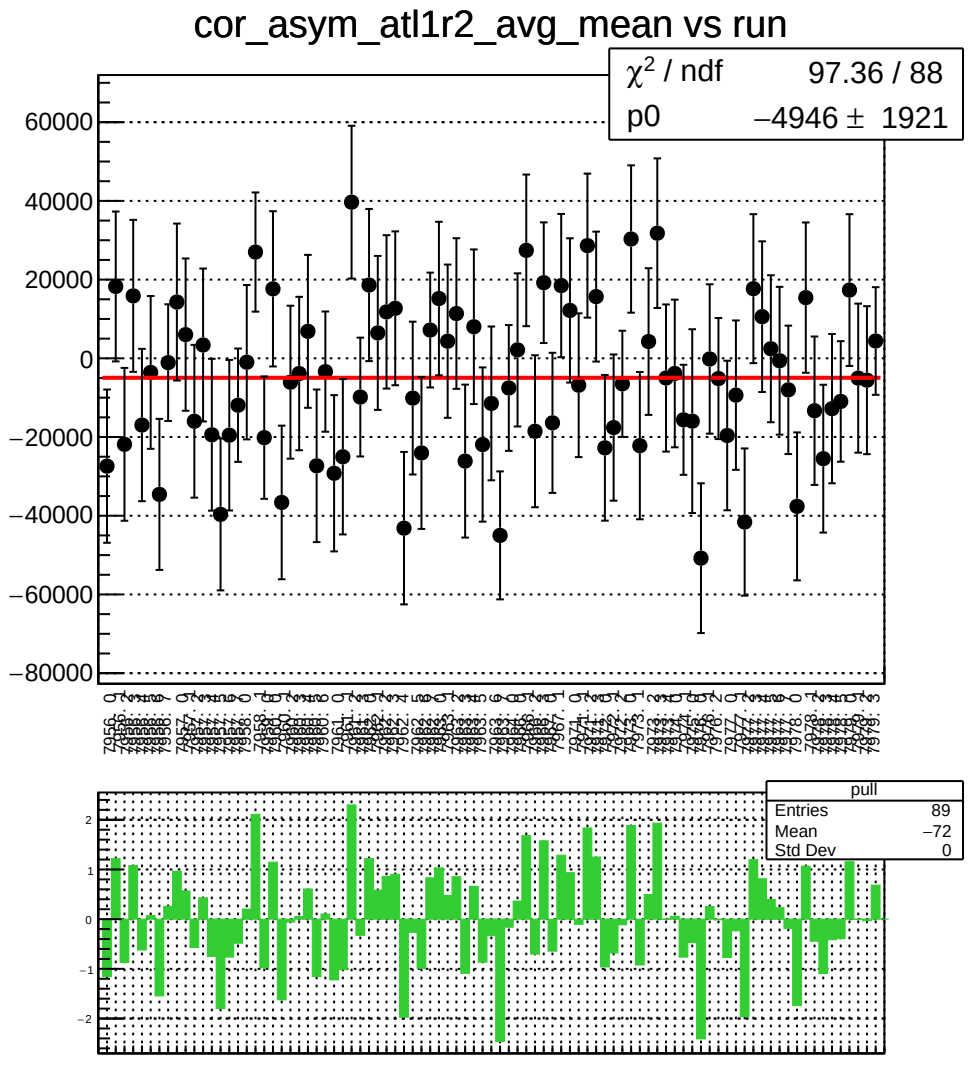

pull1D
Entries 89
Mean −0.005778
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

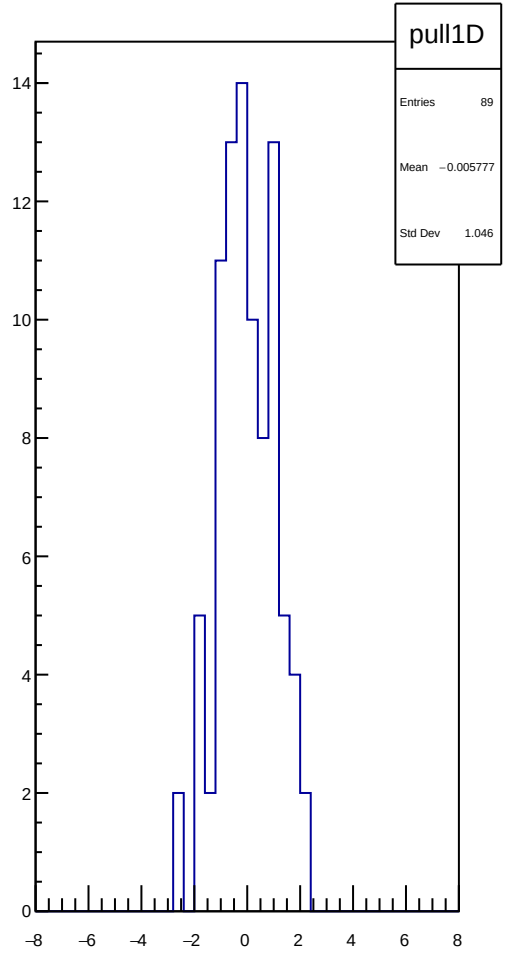

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 834.4 / 88
p0 1818 ± 1.359
1900
1850
1800
1750
1700

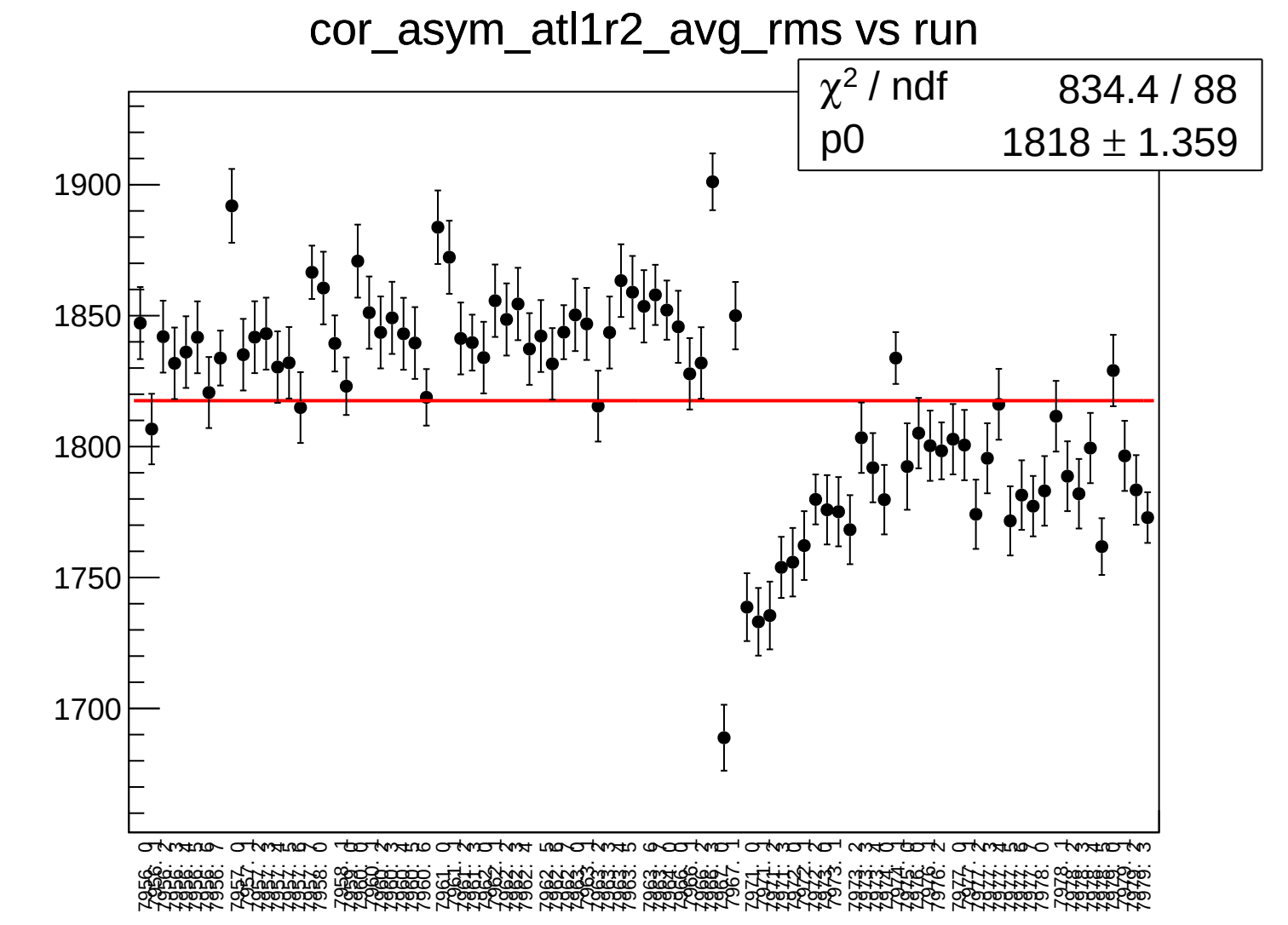

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.9 / 88
p0 2979 ± 7403
pull
Entries 89
Mean −337.9
Std Dev 0

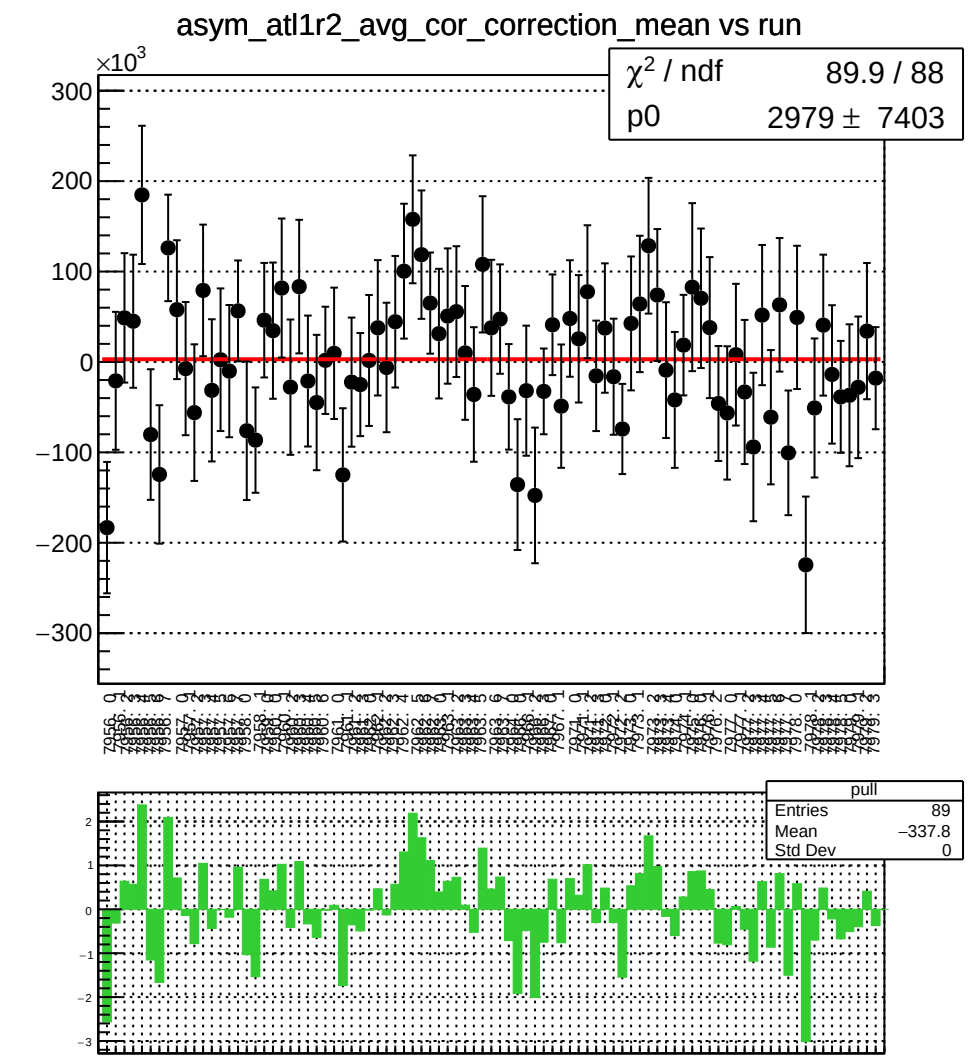

pull1D
Entries 89
Mean 0.006966
Std Dev 1.005

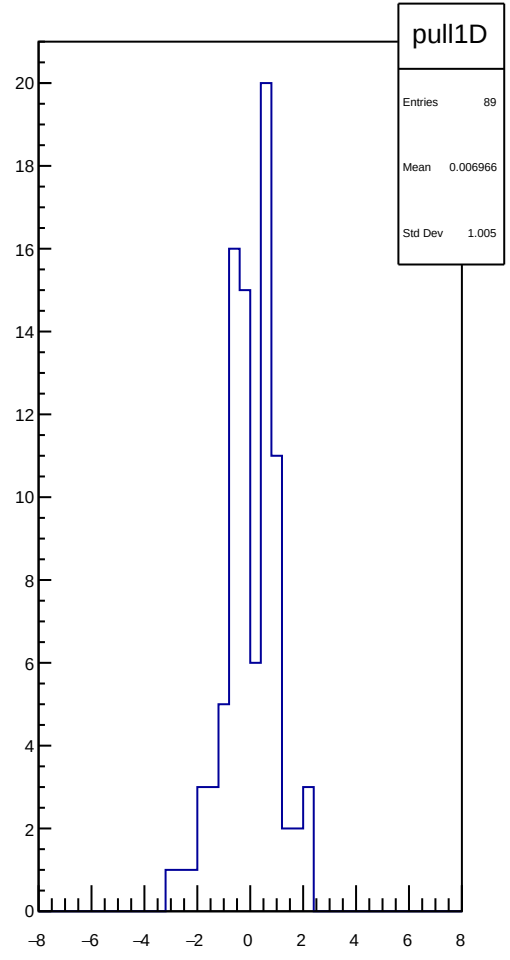

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 6077 / 88
p0 6993 ± 5.235
8000
7500
7000
6500
6000
5500
5000

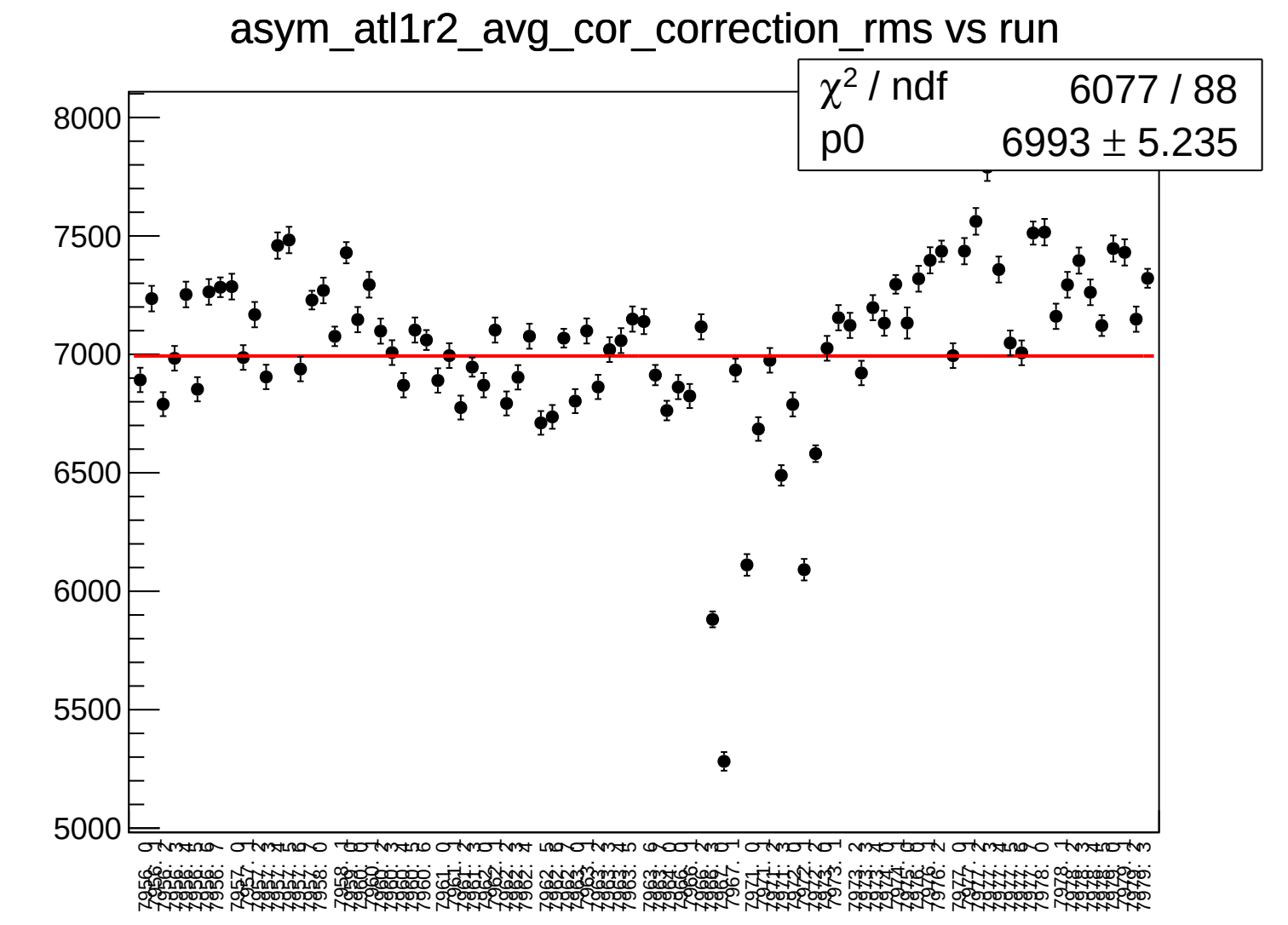

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 97.36 / 88
p0 −4946 ± 1921
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −72
Std Dev 0
2
1
0
−1
−2

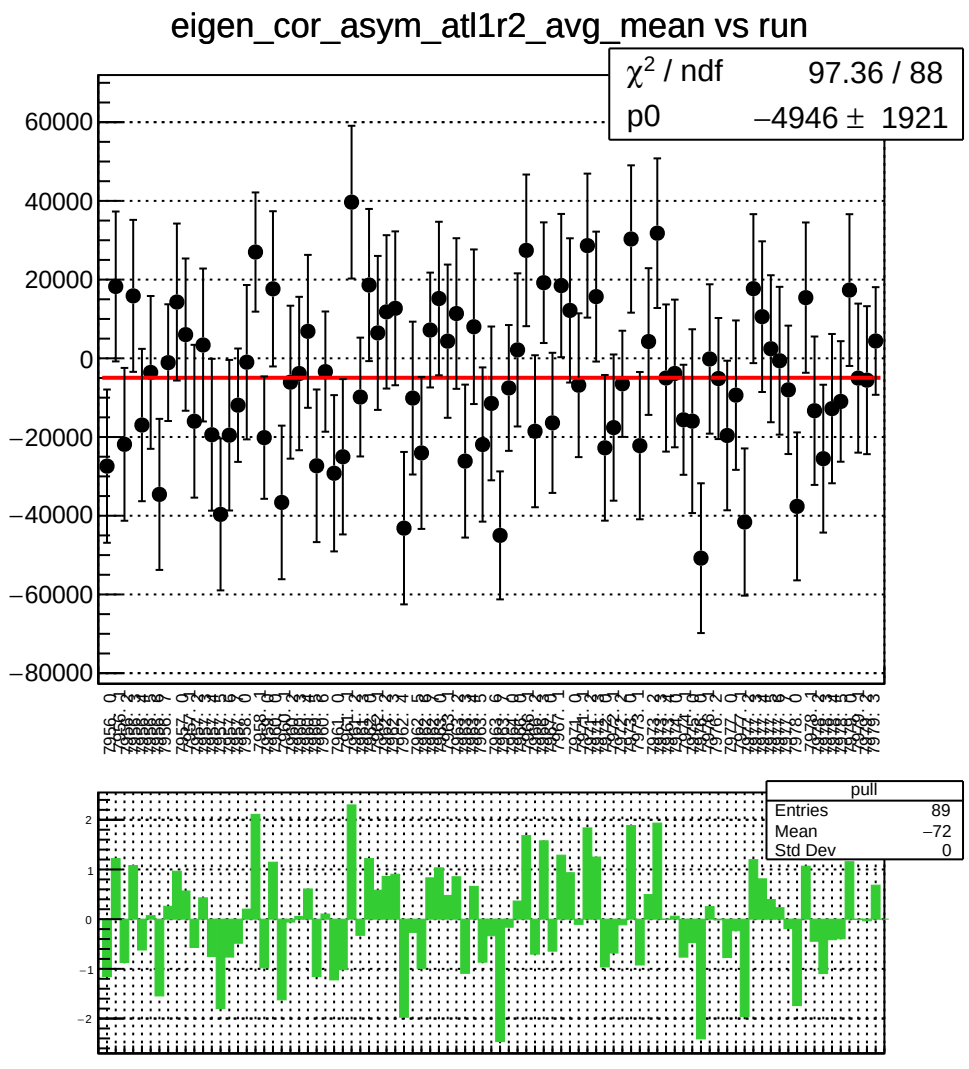

pull1D
Entries 89
Mean −0.005777
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

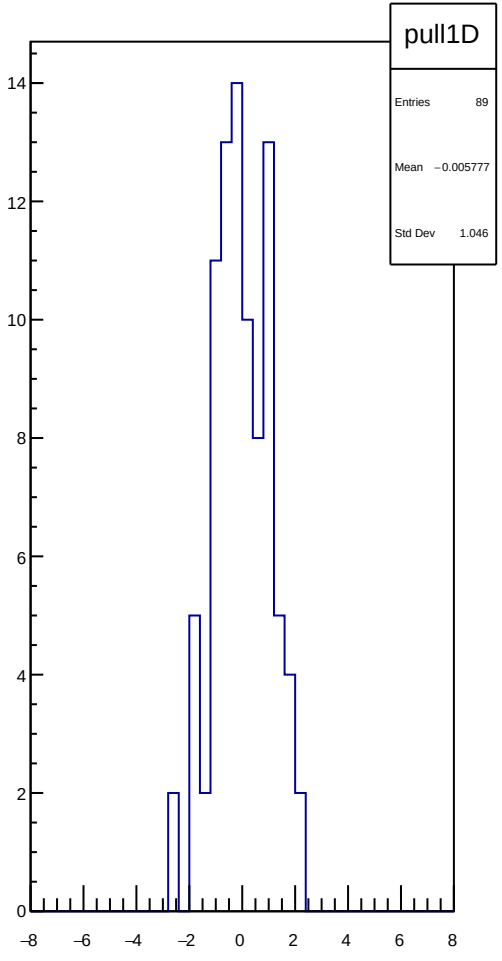

cor_asym_atl1r2_avg_rms vs run
$\chi^2$ / ndf 834.4 / 88
p0 1818 ± 1.359
1900
1850
1800
1750
1700

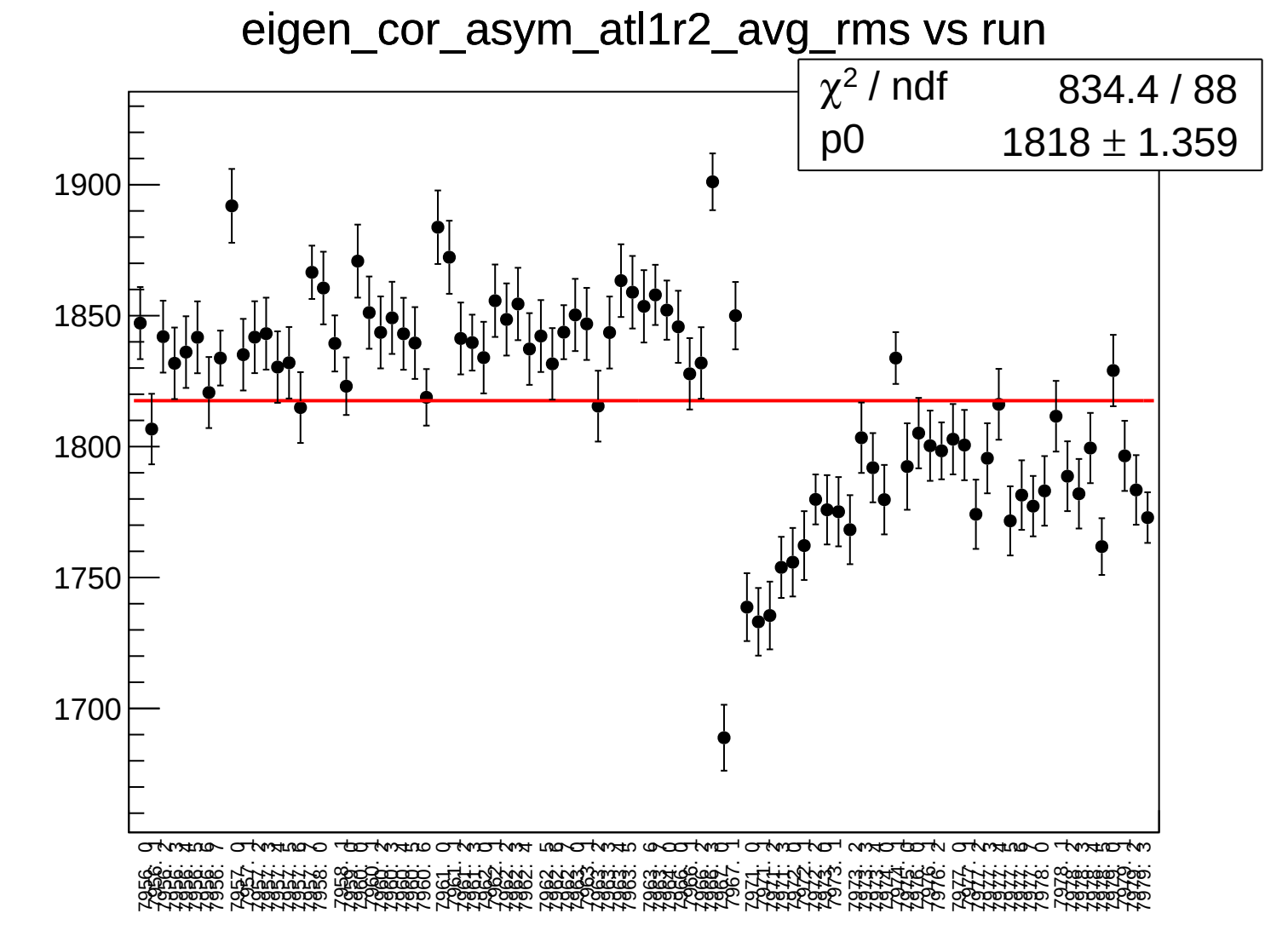

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.9 / 88
p0 2979 ± 7403
pull
Entries 89
Mean −337.8
Std Dev 0

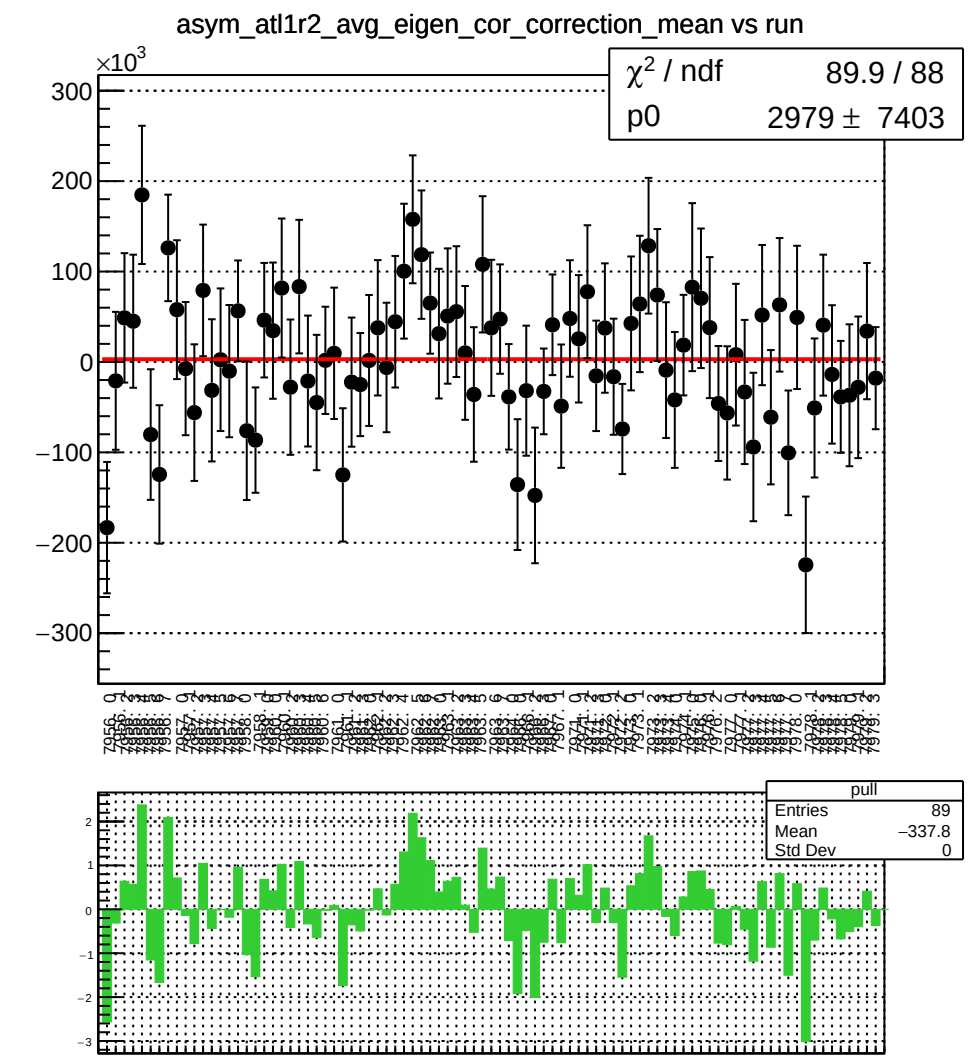

pull1D
Entries 89
Mean 0.006966
Std Dev 1.005

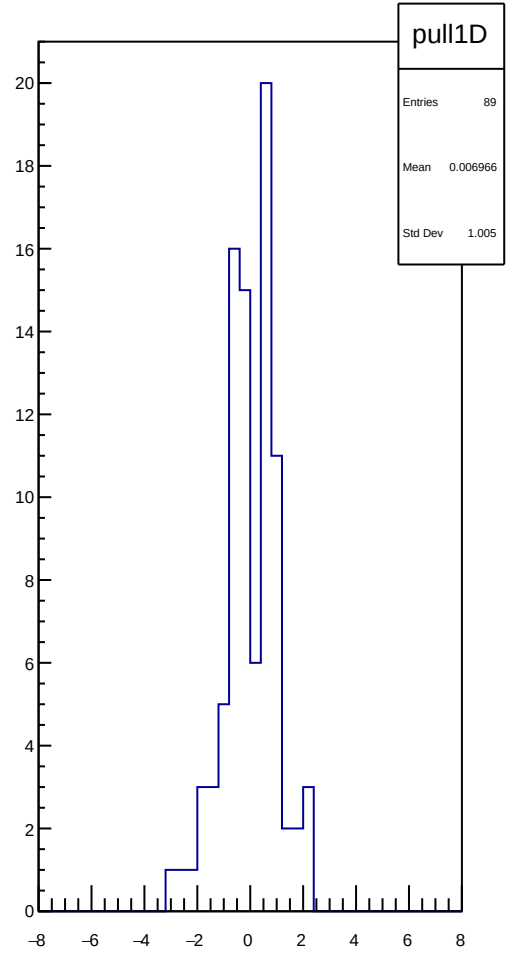

asym_atl1r2_avg_cor_correction_rms vs run
$\chi^2$ / ndf 6077 / 88
p0 6993 ± 5.235
8000
7500
7000
6500
6000
5500
5000

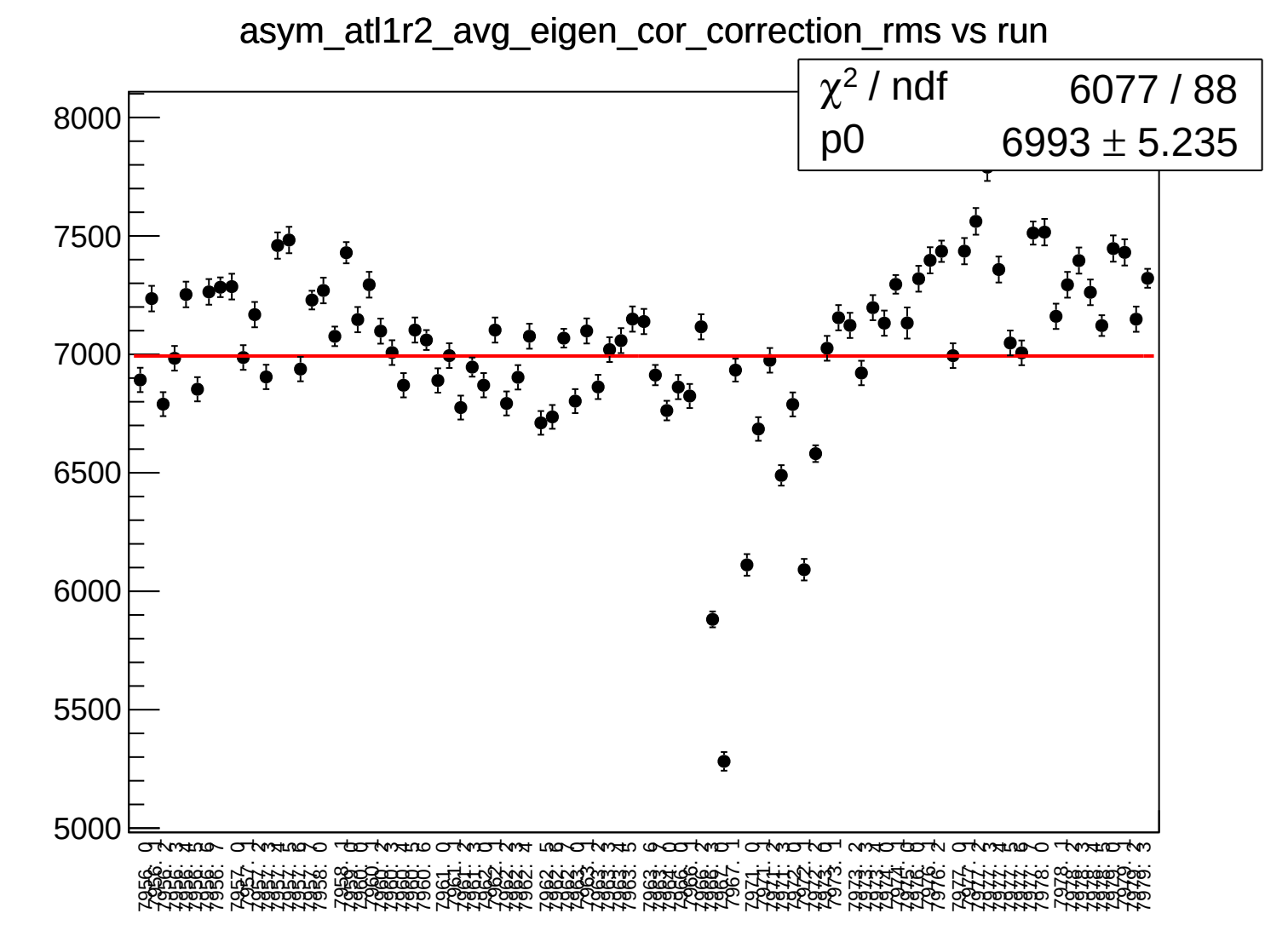

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 97.36 / 88
p0 −4946 ± 1921
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −72
Std Dev 0
2
1
0
−1
−2

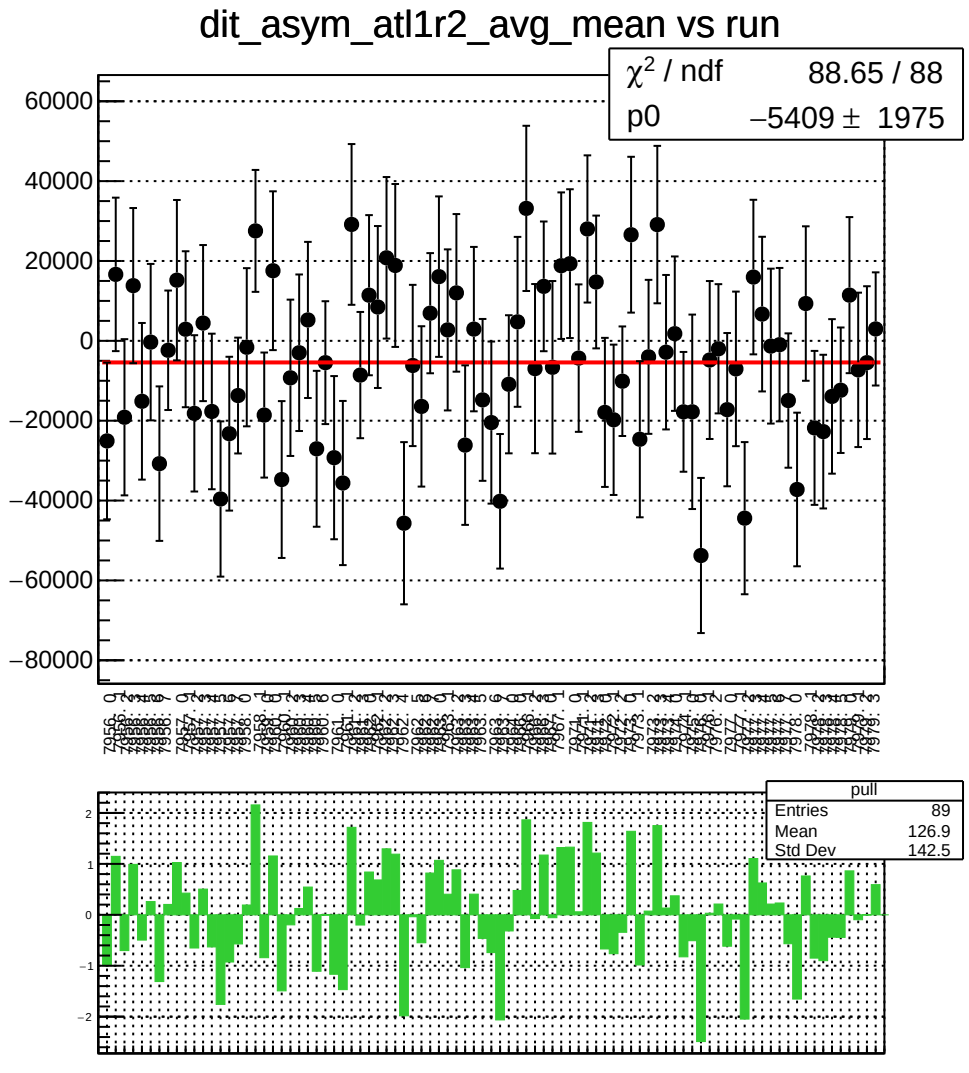

pull1D
Entries 89
Mean −0.005777
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

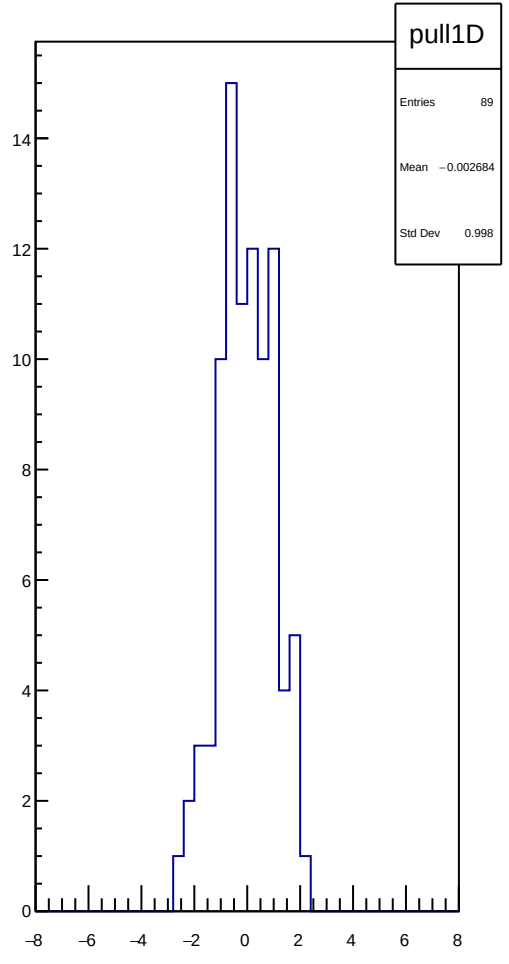

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 834.4 / 88
p0 1818 ± 1.359
1900
1850
1800
1750
1700

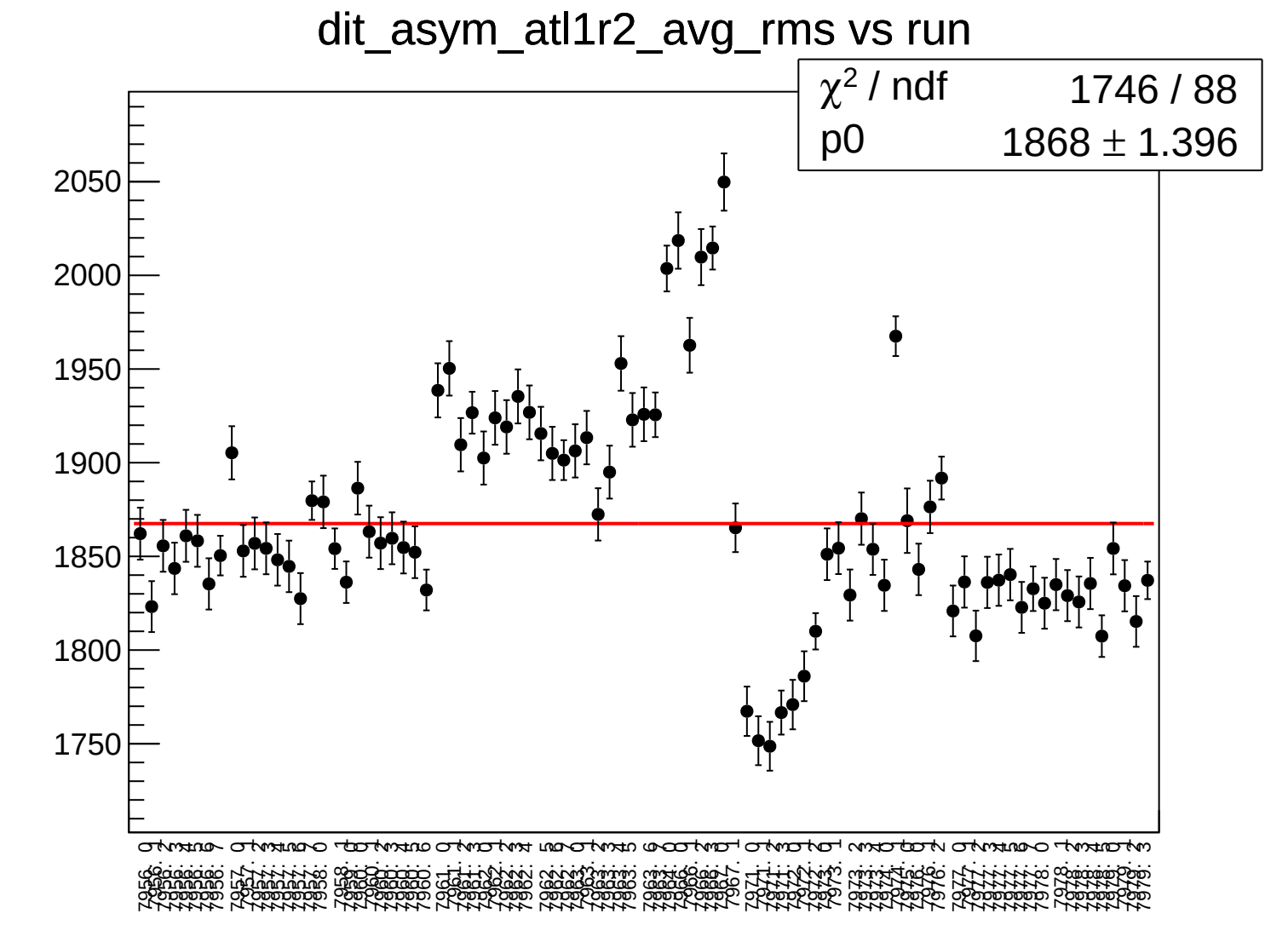

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.9 / 88
p0 2979 ± 7403
pull
Entries 89
Mean −337.8
Std Dev 0

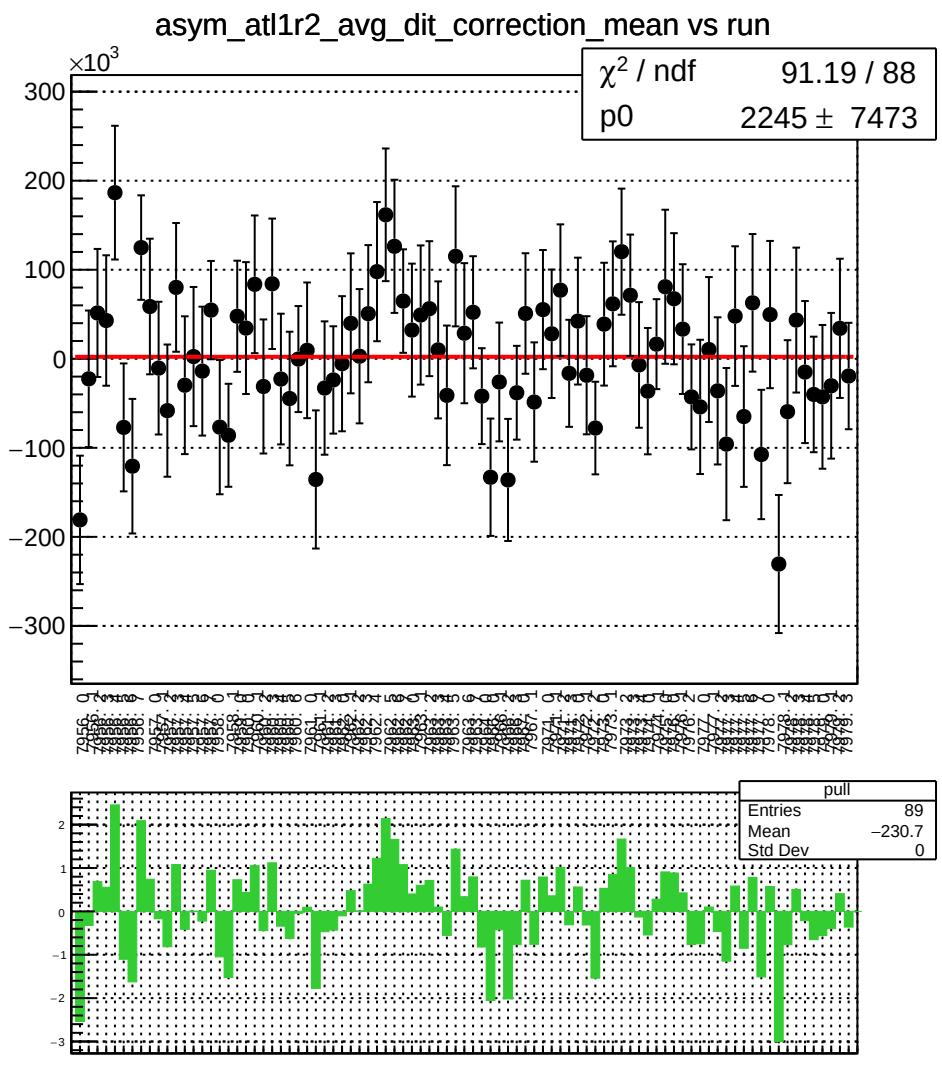

pull1D
Entries 89
Mean 0.006966
Std Dev 1.005

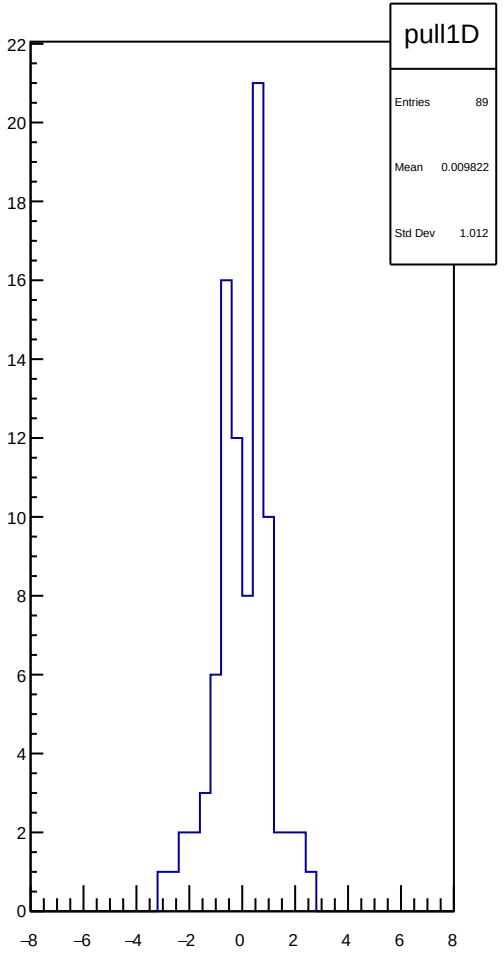

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6077 / 88
p0 6993 ± 5.235
8000
7500
7000
6500
6000
5500
5000

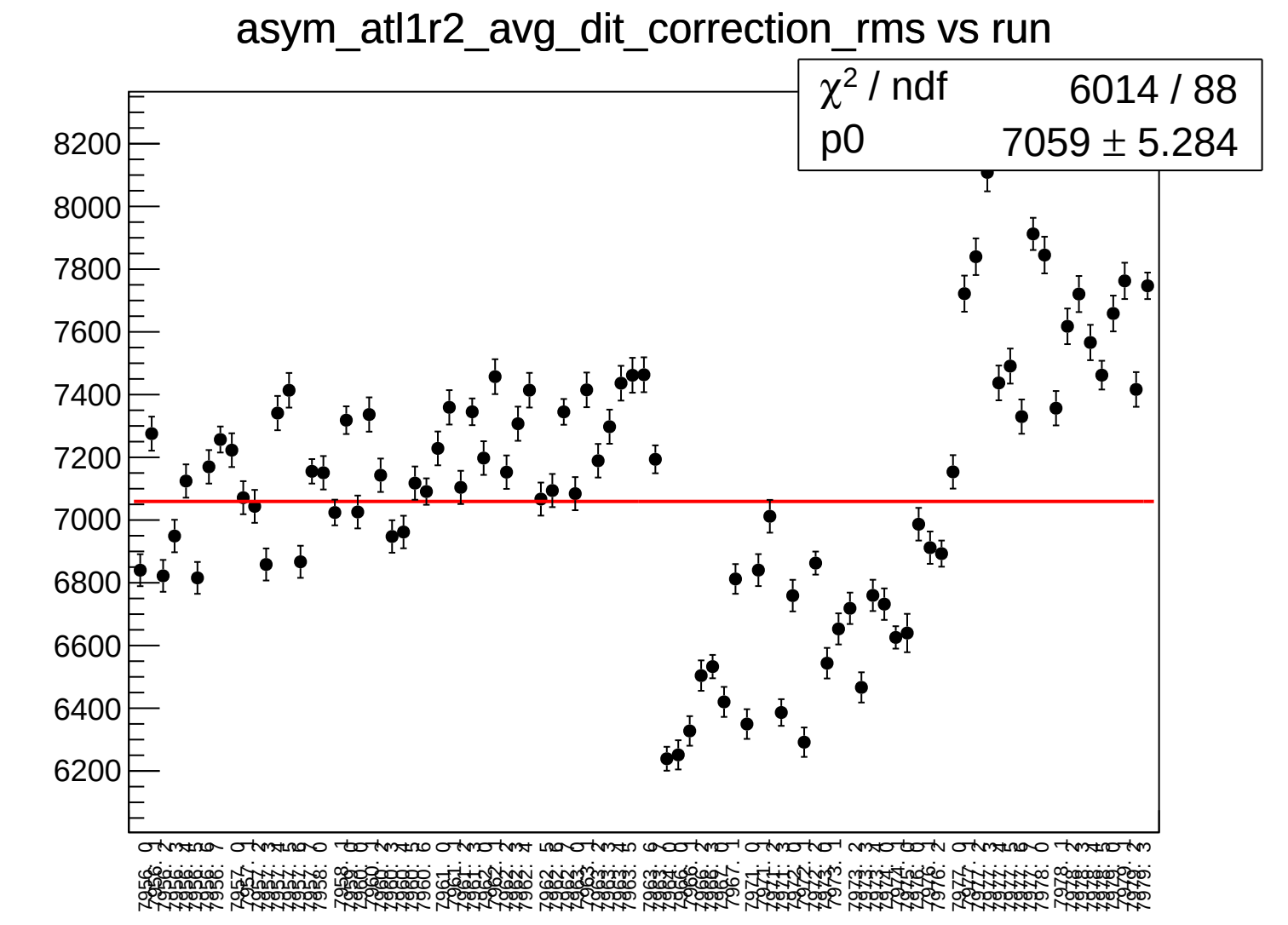

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 88.65 / 88
p0 −5409 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 126.9
Std Dev 142.5
2
1
0
−1
−2

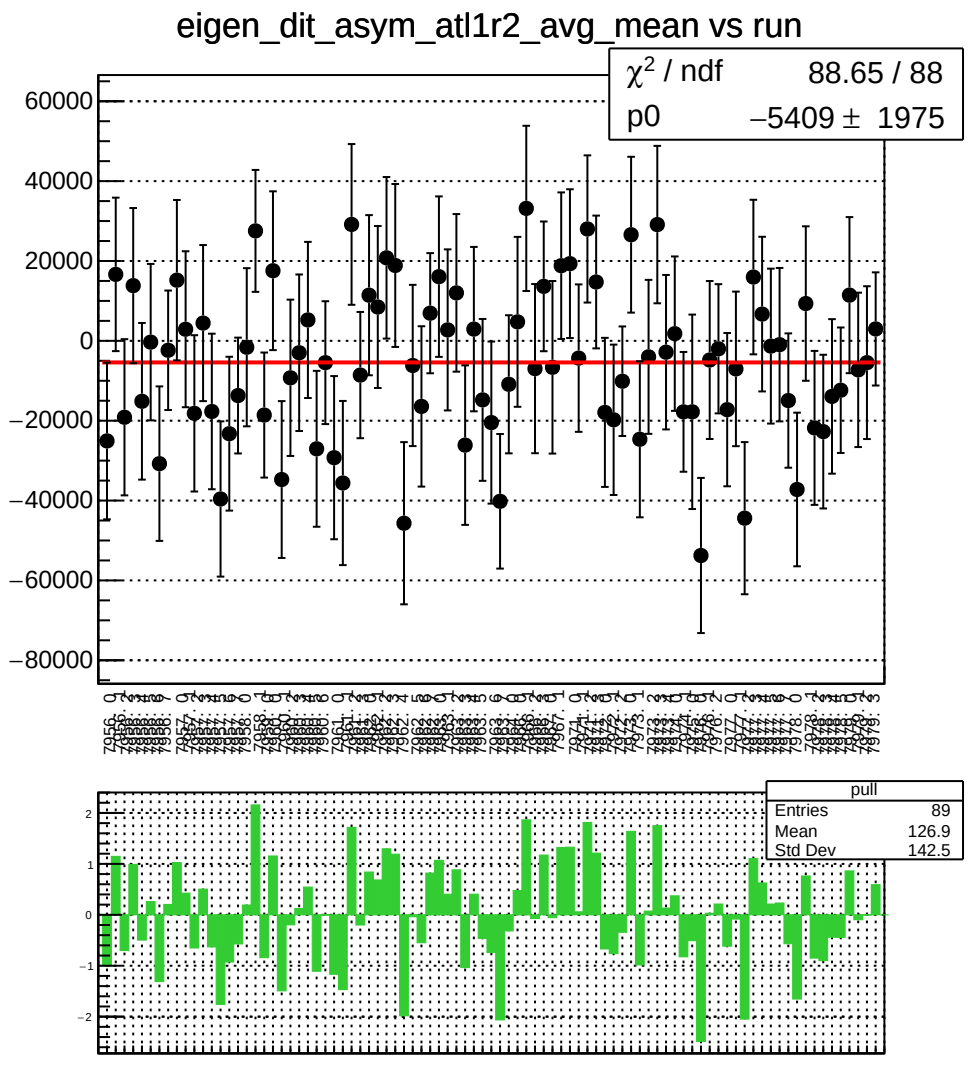

pull1D
Entries 89
Mean −0.002684
Std Dev 0.998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

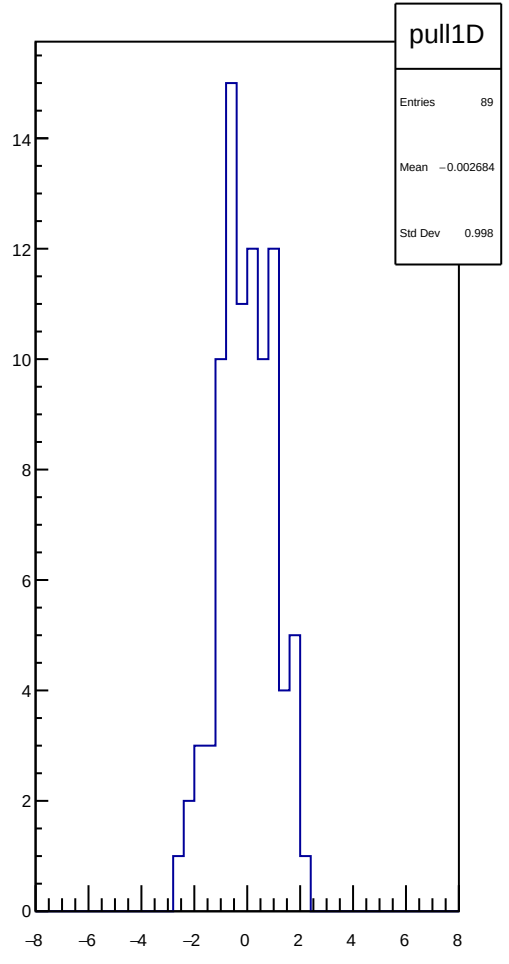

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1746 / 88
p0 1868 ± 1.396
2050
2000
1950
1900
1850
1800
1750

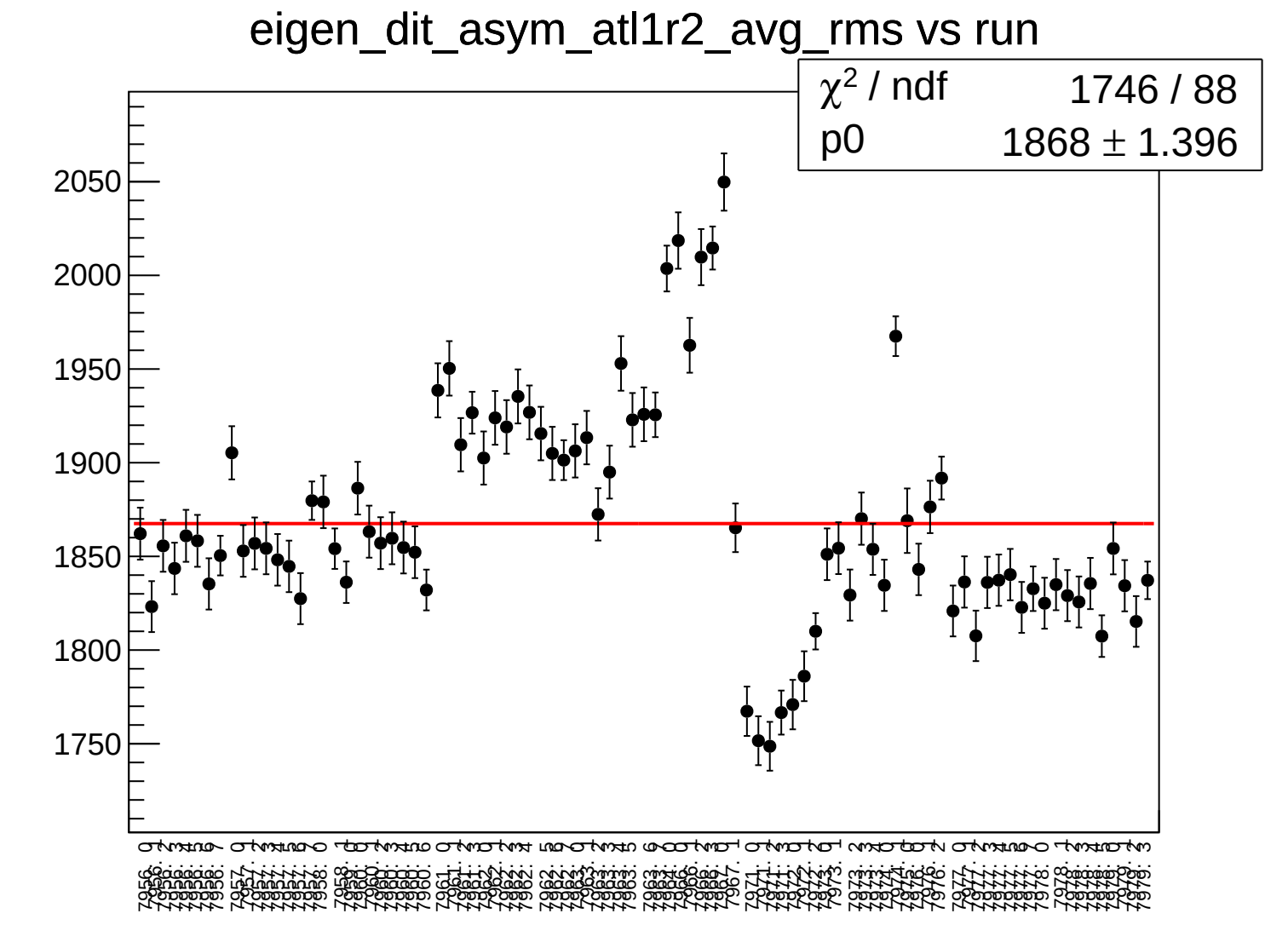

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.19 / 88
p0 2245 ± 7473
pull
Entries 89
Mean −230.7
Std Dev 0

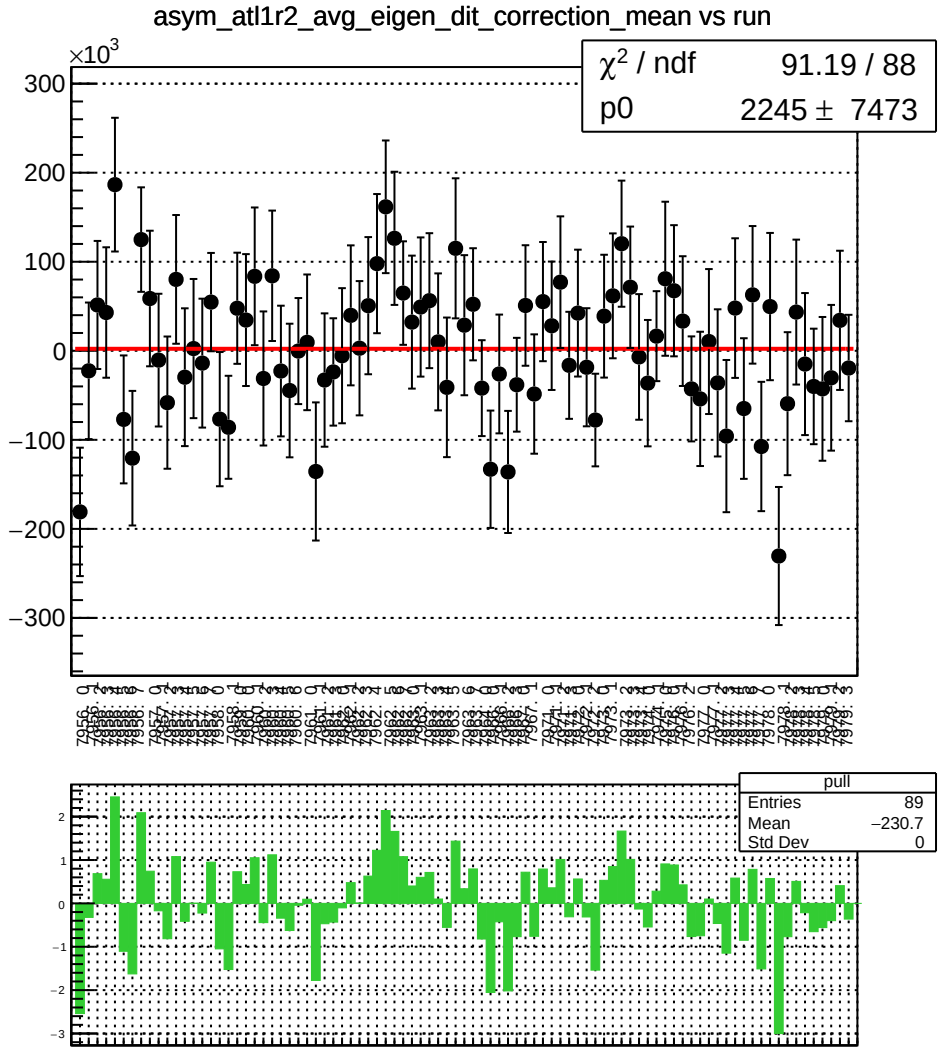

pull1D
Entries 89
Mean 0.009822
Std Dev 1.012

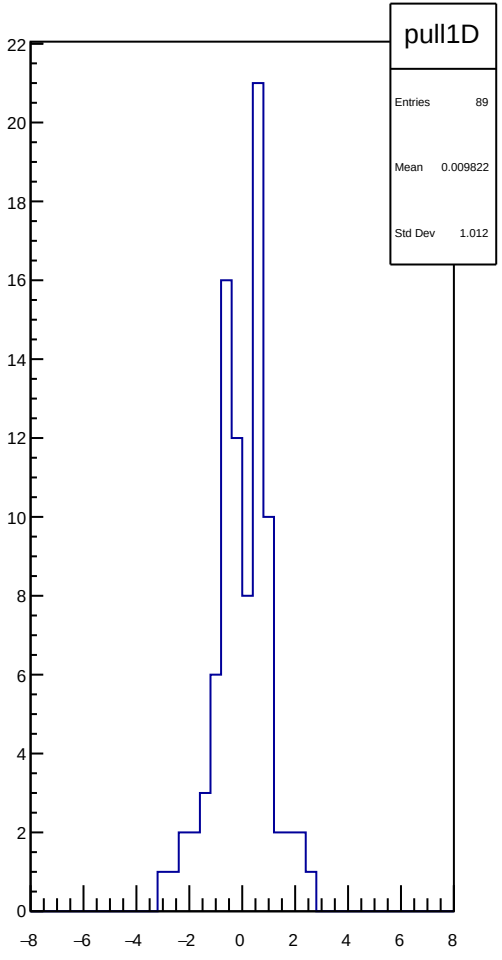

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 6014 / 88
p0 7059 ± 5.284
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

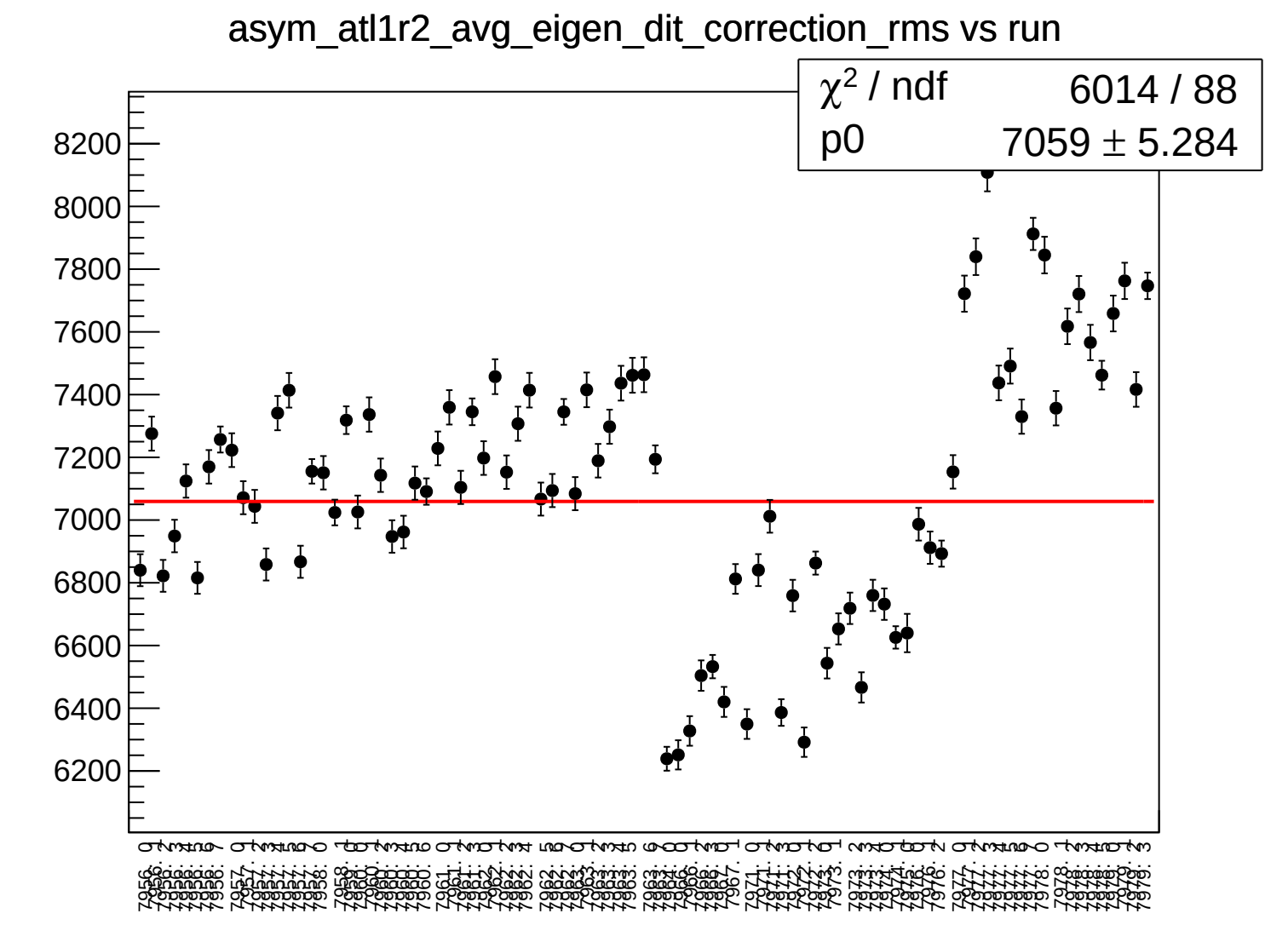

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 88.65 / 88
p0 −5409 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 126.9
Std Dev 142.5
2
1
0
−1
−2

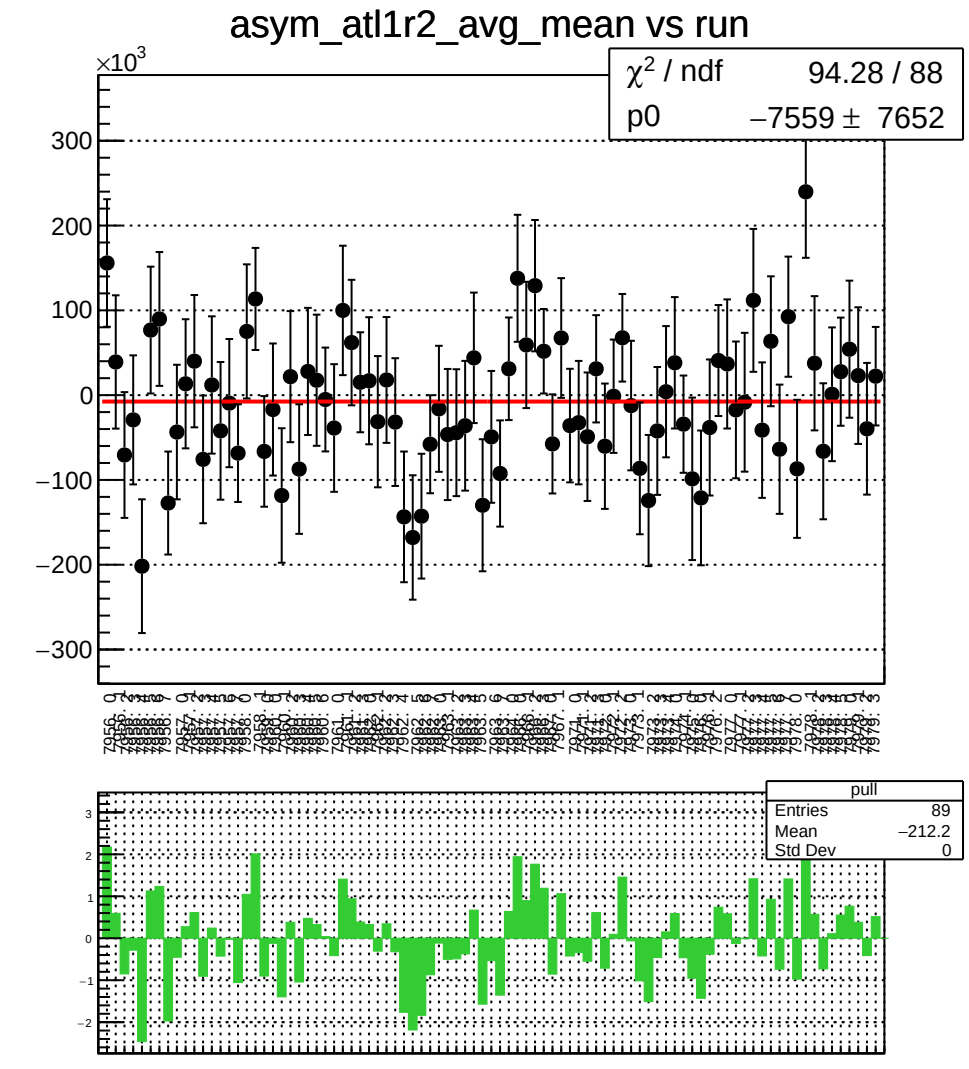

pull1D
Entries 89
Mean −0.002684
Std Dev 0.998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

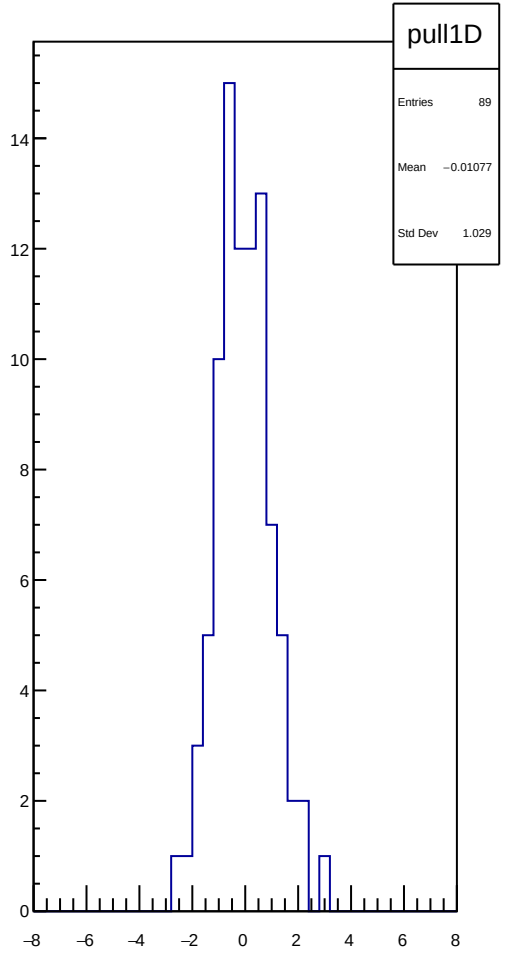

eigen_dit_asym_atl1r2_avg_rms vs run
$\chi^2$ / ndf 1746 / 88
p0 1868 ± 1.396
2050
2000
1950
1900
1850
1800
1750

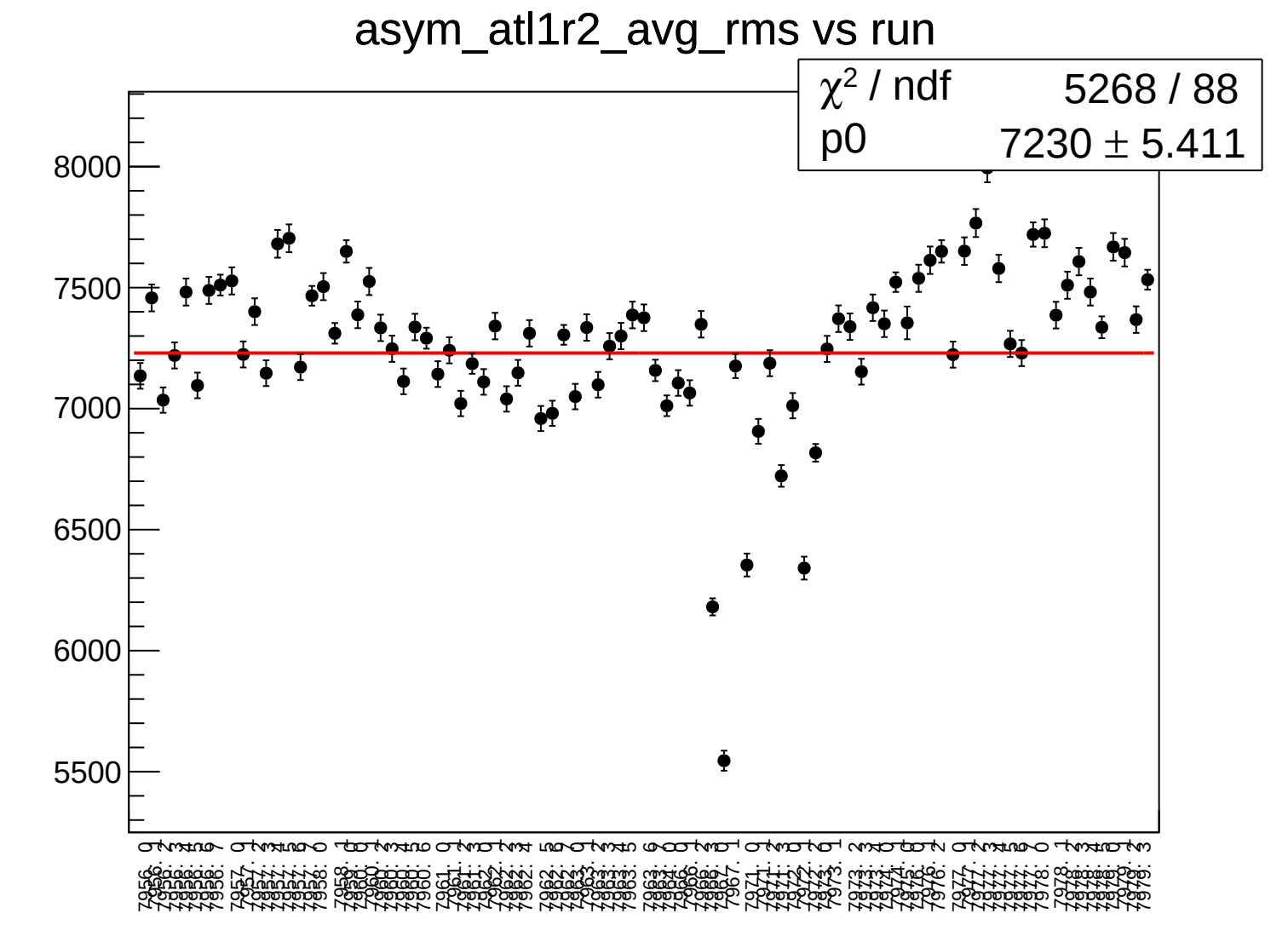

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.19 / 88
p0 2245 ± 7473
pull
Entries 89
Mean −230.7
Std Dev 0

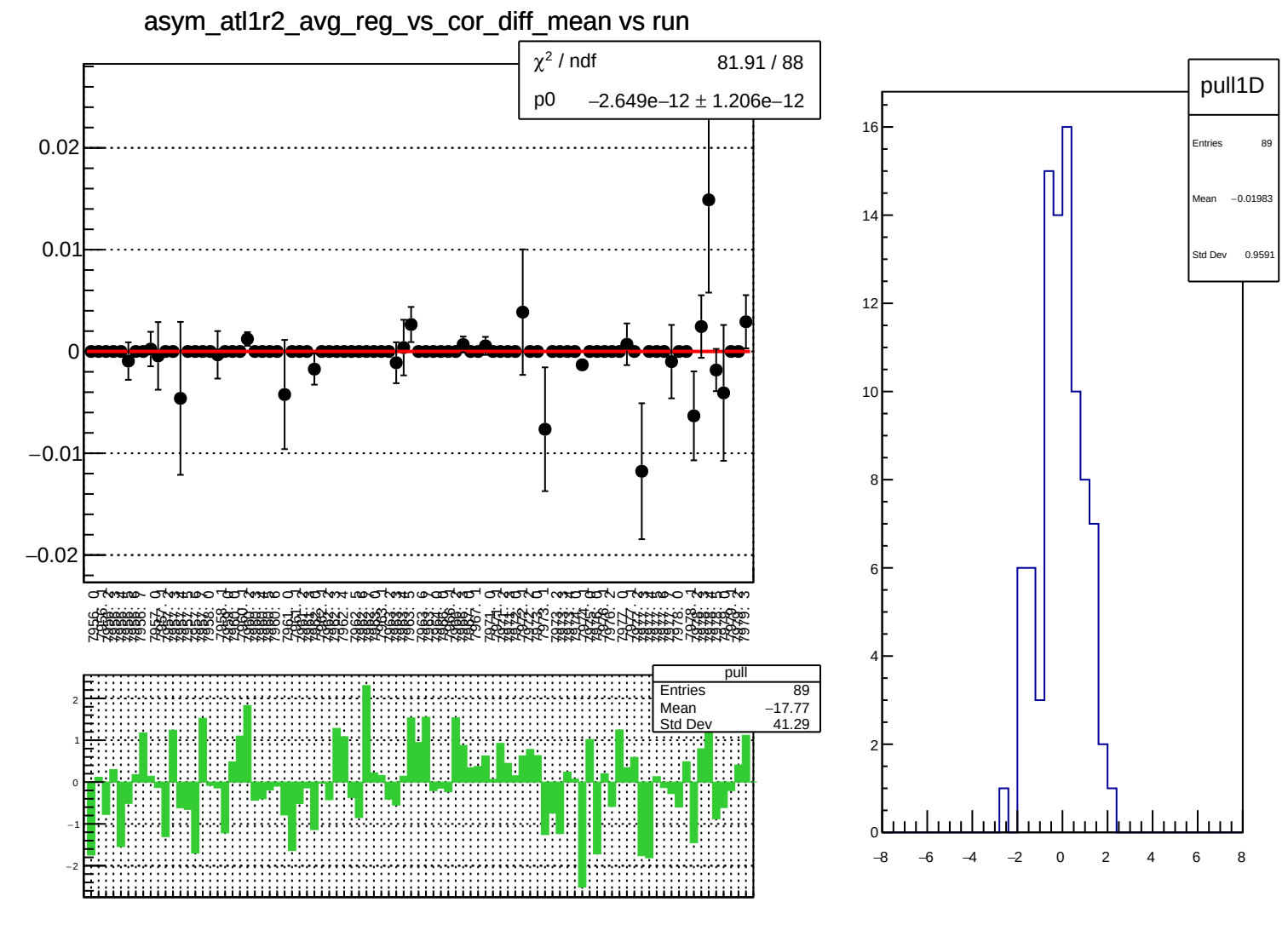

pull1D
Entries 89
Mean 0.009822
Std Dev 1.012

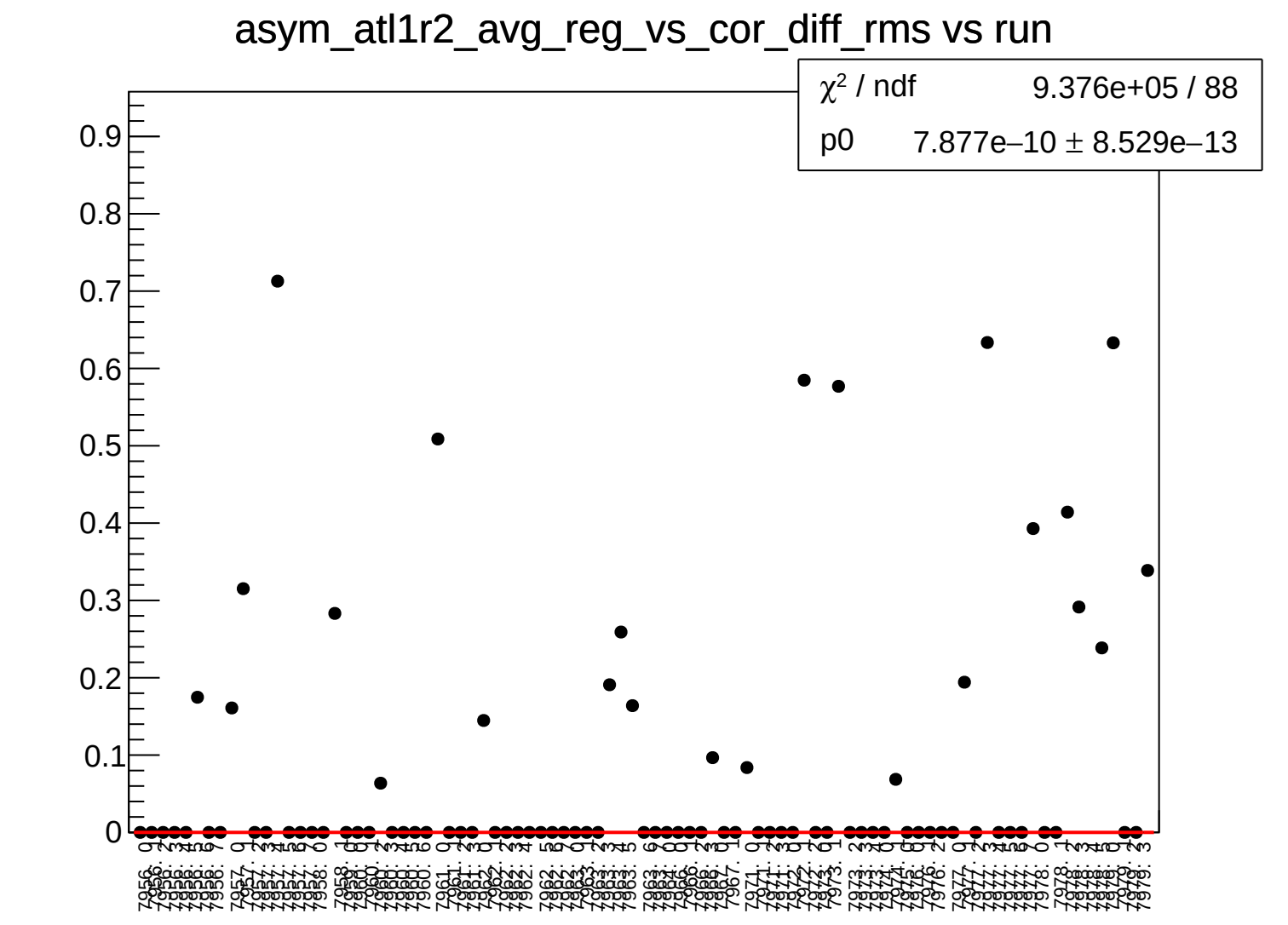

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6014 / 88
p0 7059 ± 5.284
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

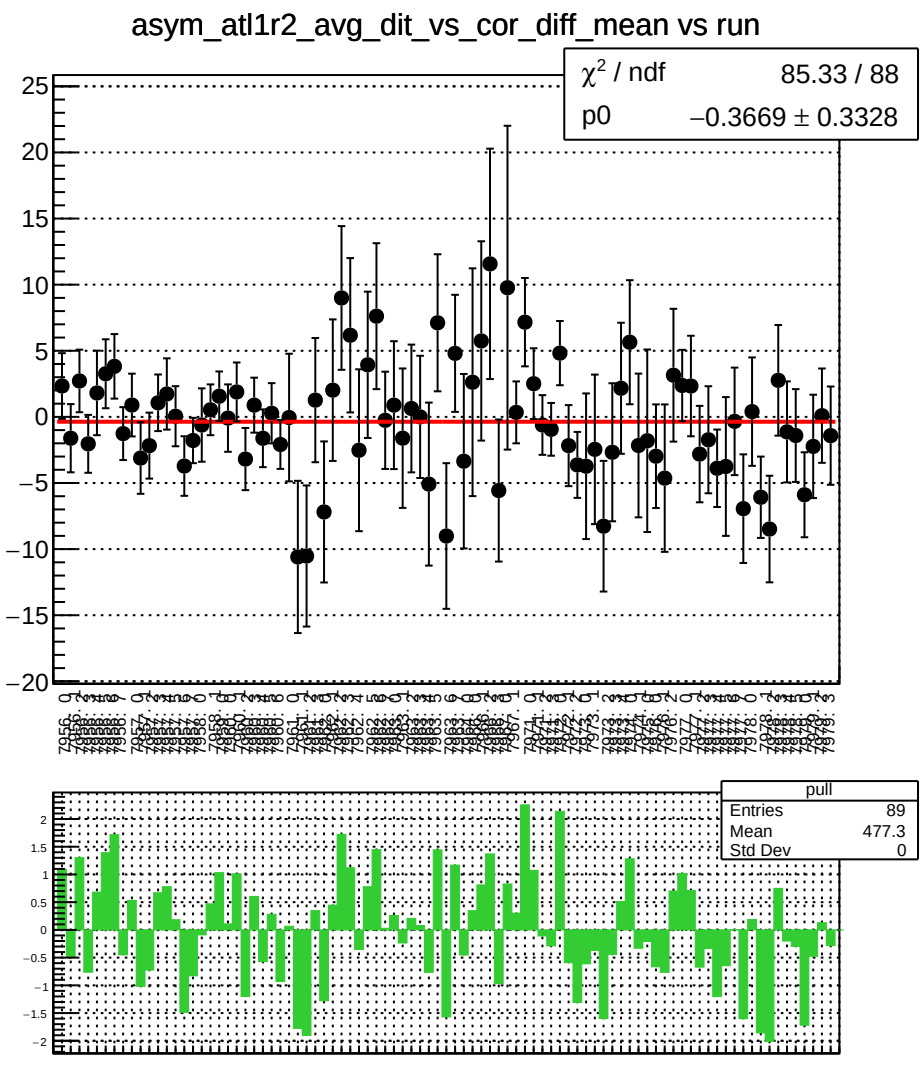

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 94.28 / 88
p0 −7559 ± 7652
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −212.2
Std Dev 0
3
2
1
0
−1
−2

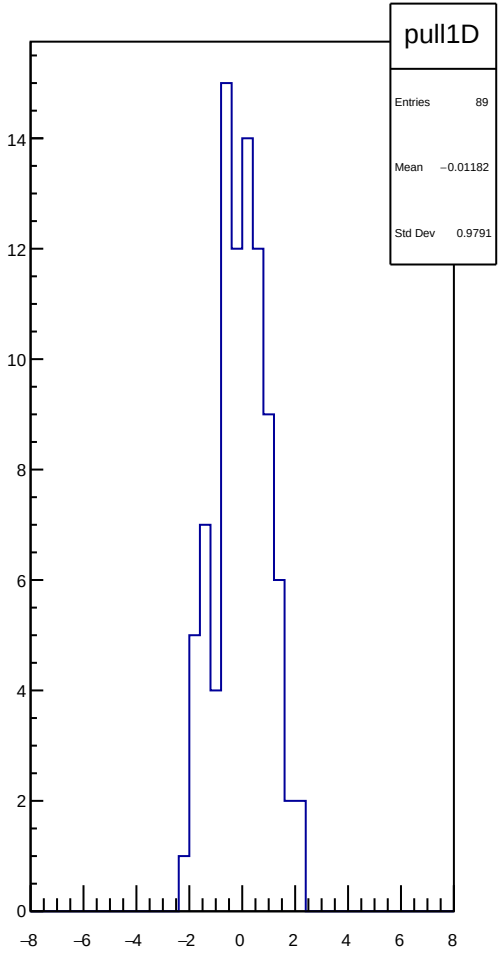

pull1D
Entries 89
Mean −0.01077
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

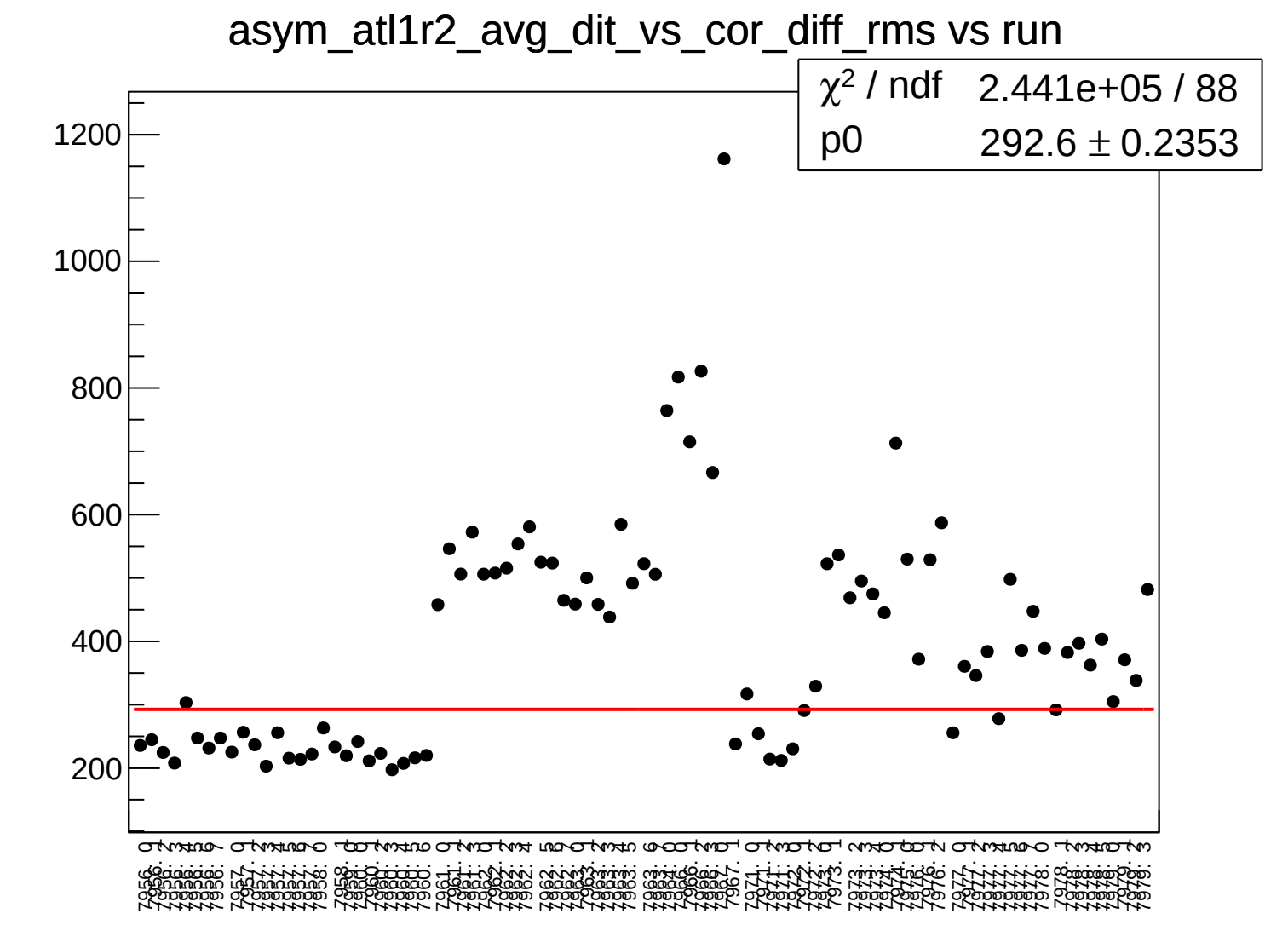

asym_atl1r2_avg_rms vs run
χ² / ndf 5268 / 88
p0 7230 ± 5.411
8000
7500
7000
6500
6000
5500

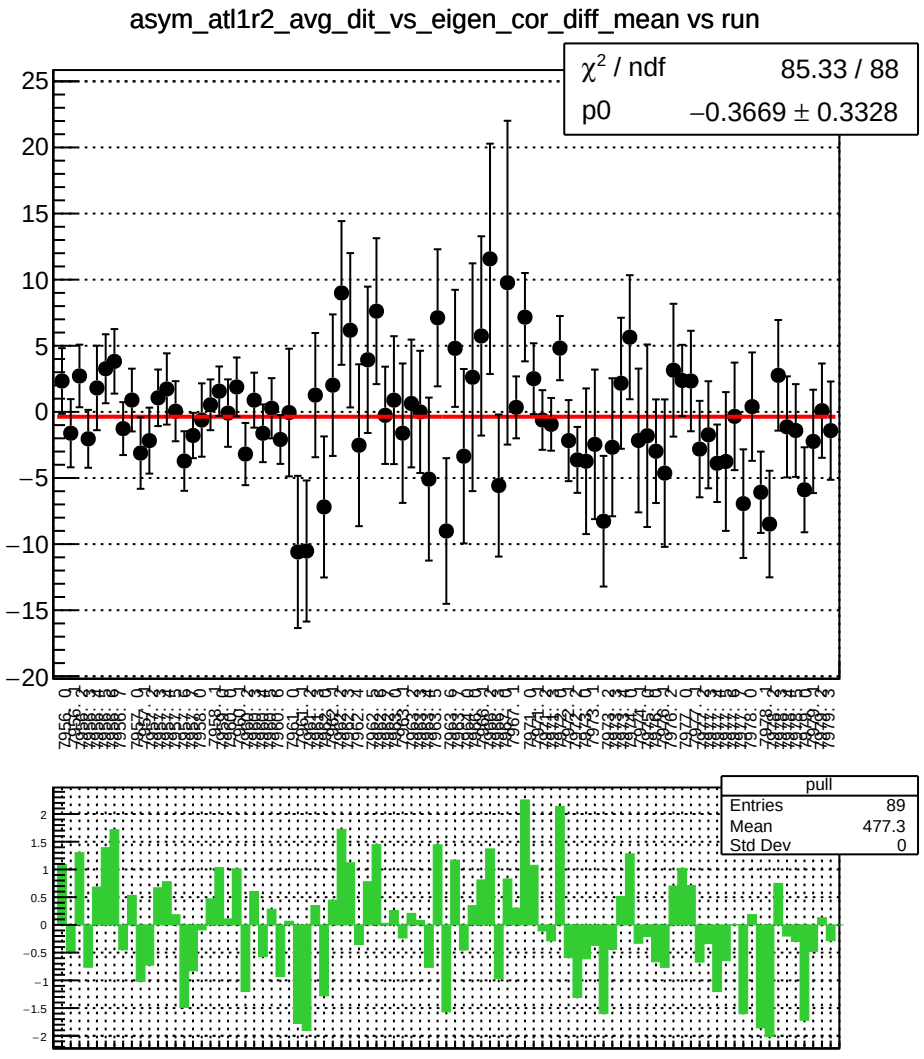

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.91 / 88
p0 −2.649e−12 ± 1.206e−12
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean −17.77
Std Dev 41.29
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01983
Std Dev 0.9591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

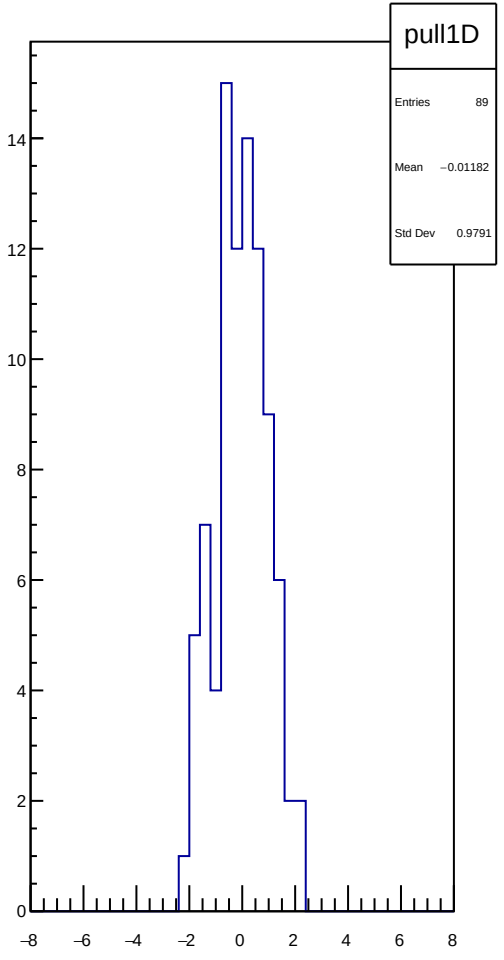

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.376e+05 / 88
p0 7.877e−10 ± 8.529e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

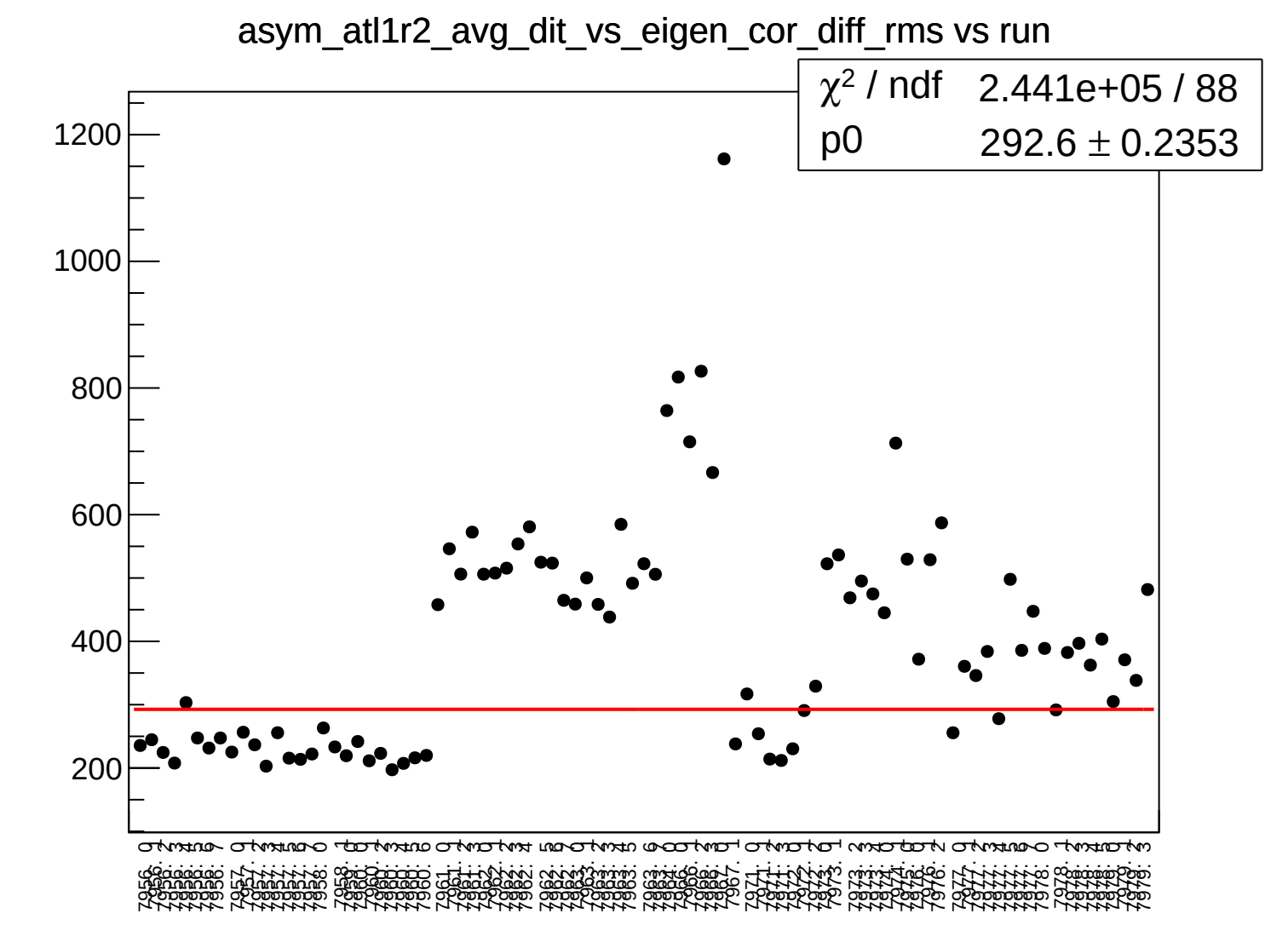

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.33 / 88
p0 −0.3669 ± 0.3328
pull
Entries 89
Mean 477.3
Std Dev 0

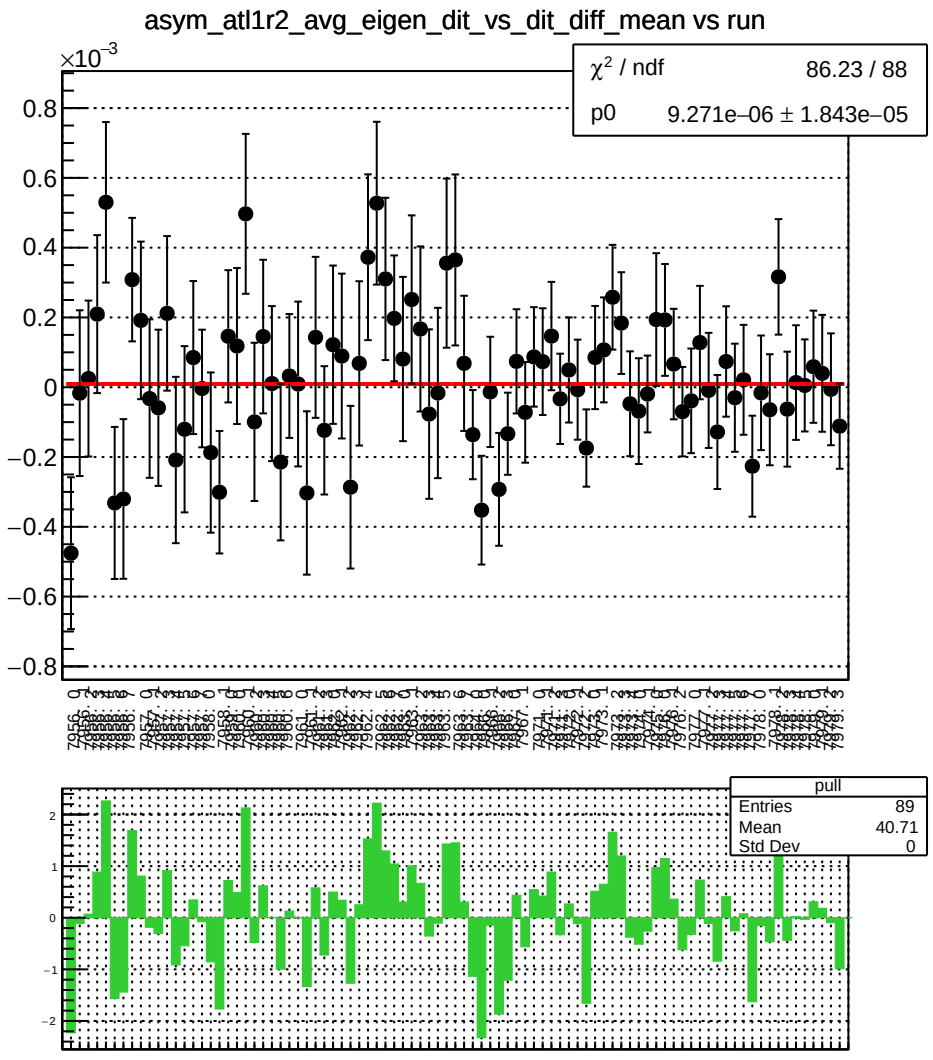

pull1D
Entries 89
Mean −0.01182
Std Dev 0.9791

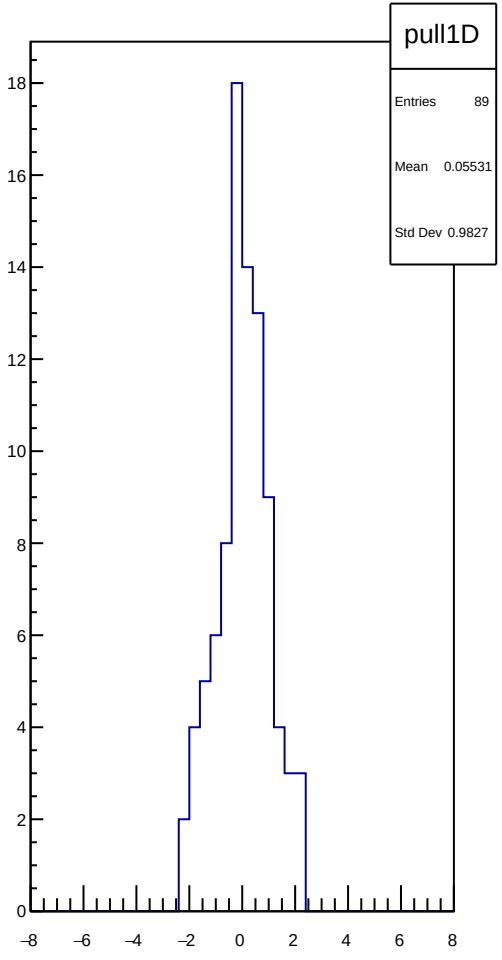

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.441e+05 / 88
p0 292.6 ± 0.2353
1200
1000
800
600
400
200

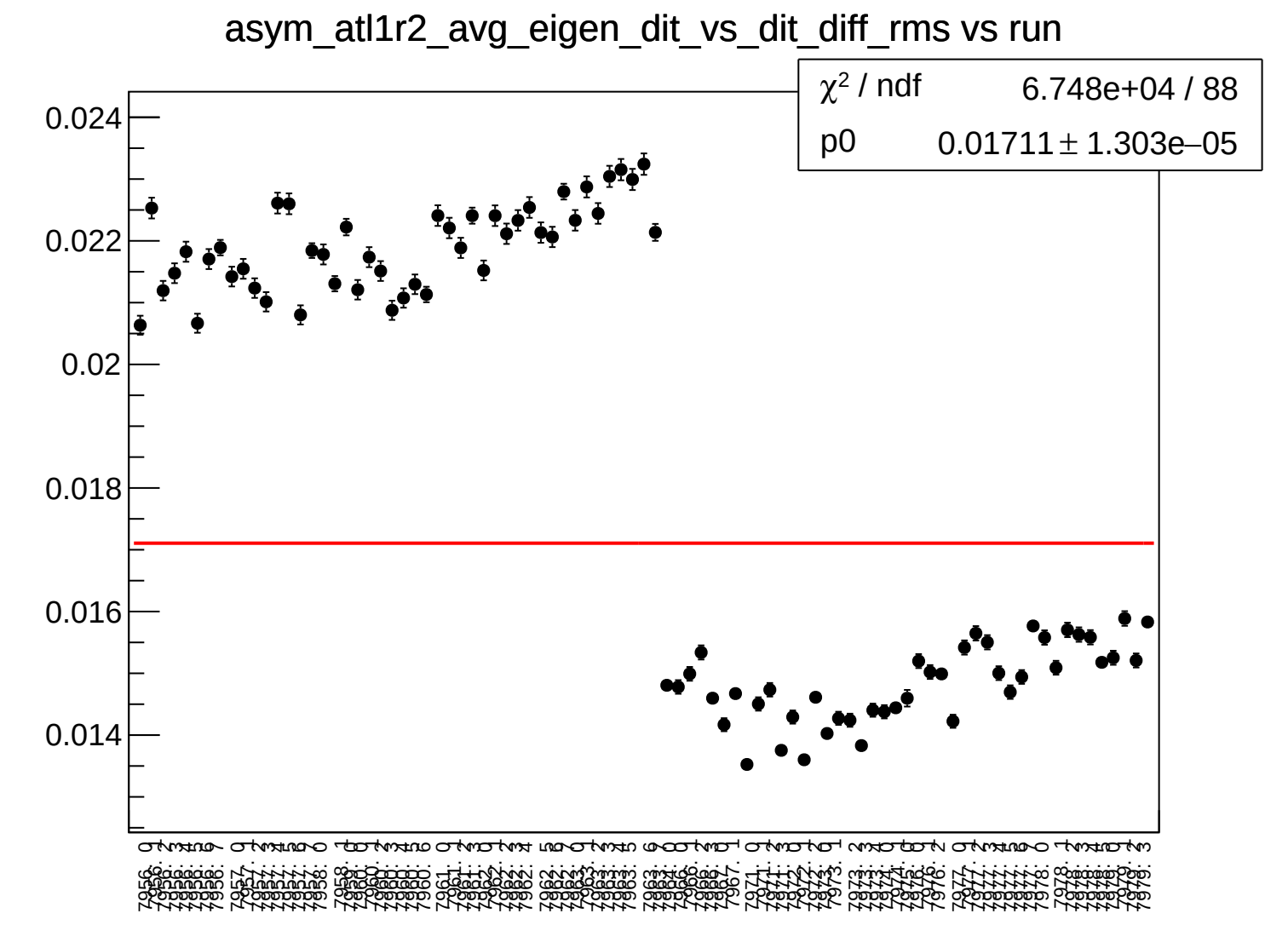

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.33 / 88
p0 −0.3669 ± 0.3328
pull
Entries 89
Mean 477.3
Std Dev 0

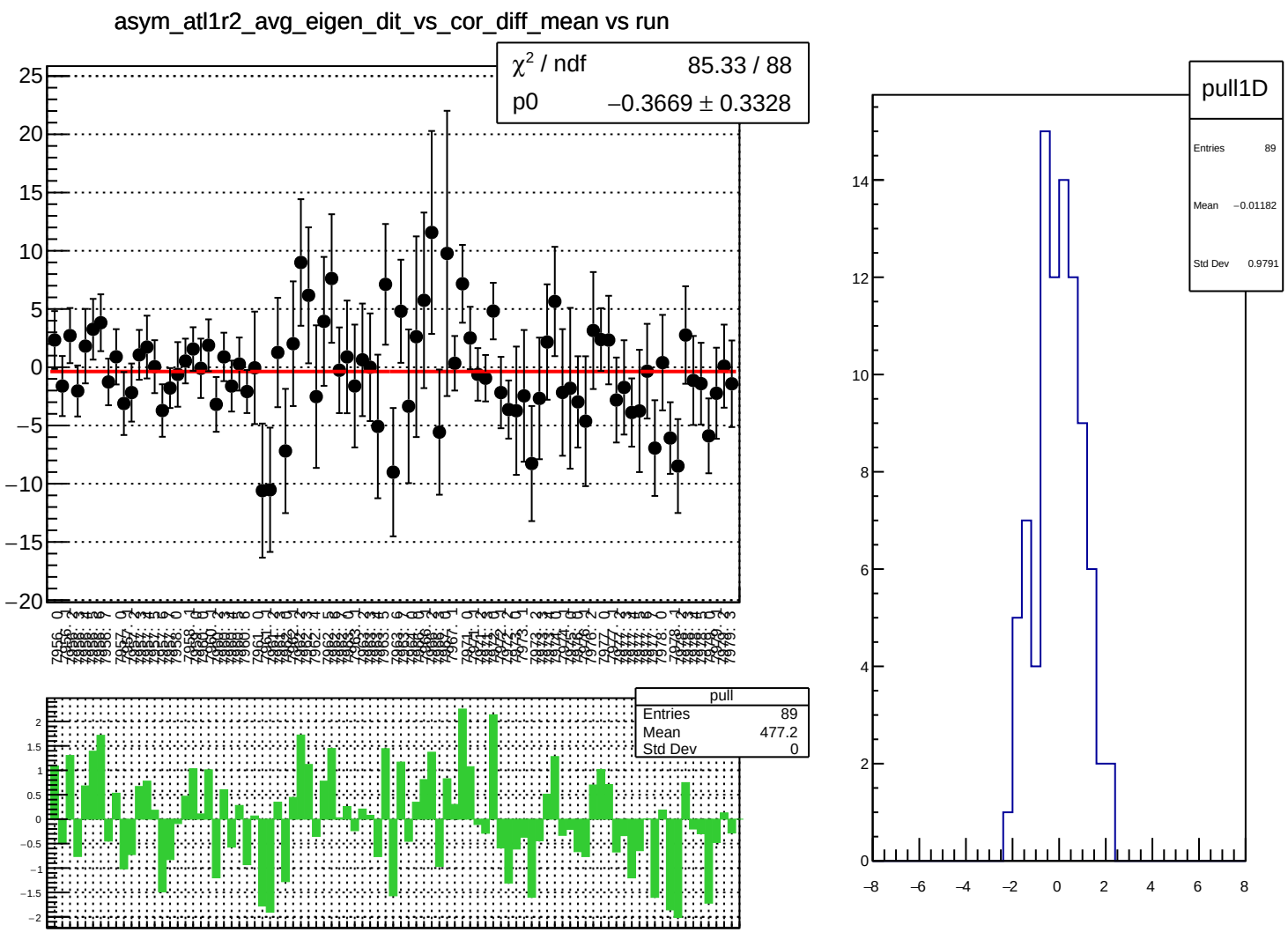

pull1D
Entries 89
Mean −0.01182
Std Dev 0.9791

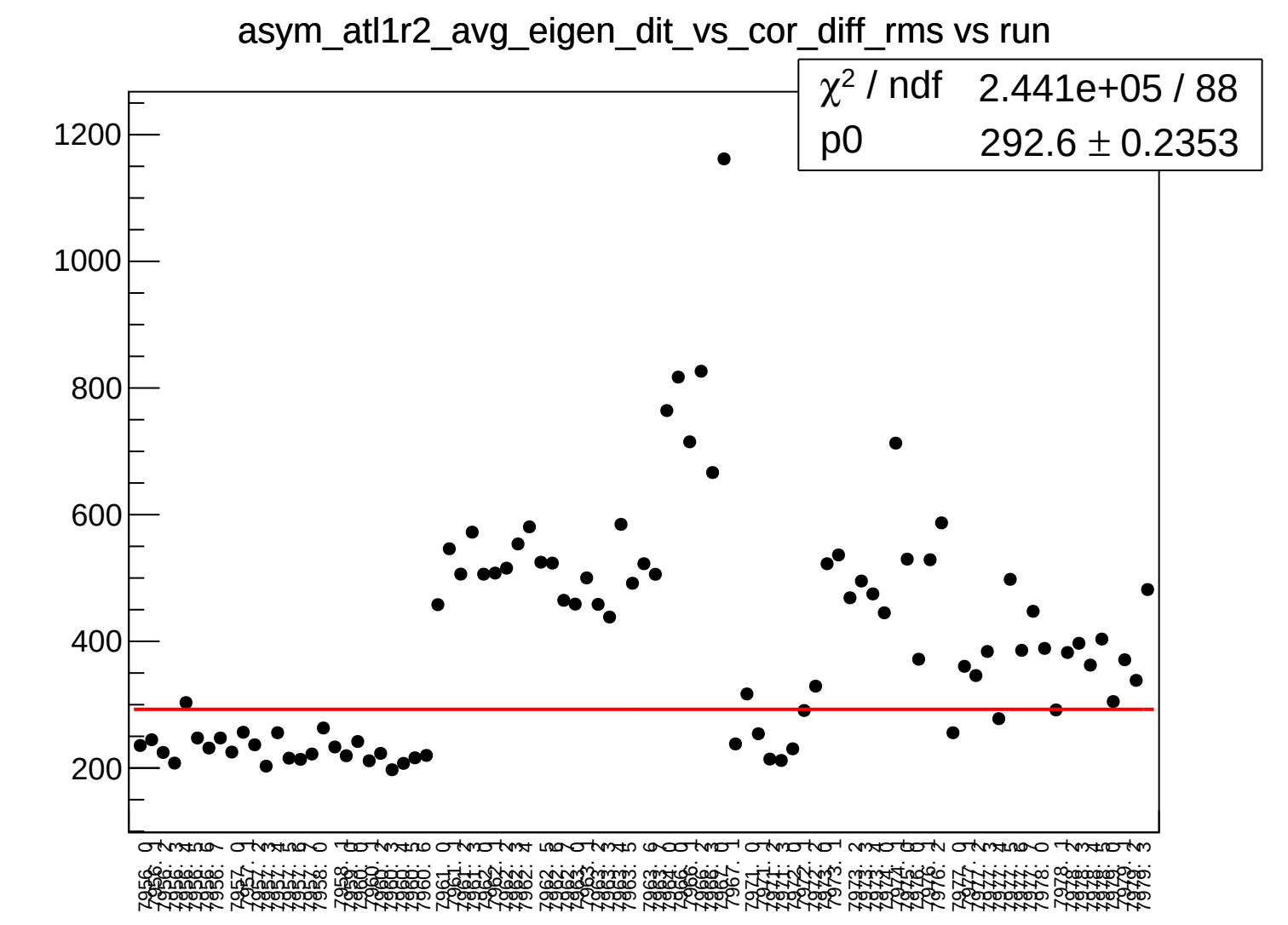

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.441e+05 / 88
p0 292.6 ± 0.2353
1200
1000
800
600
400
200

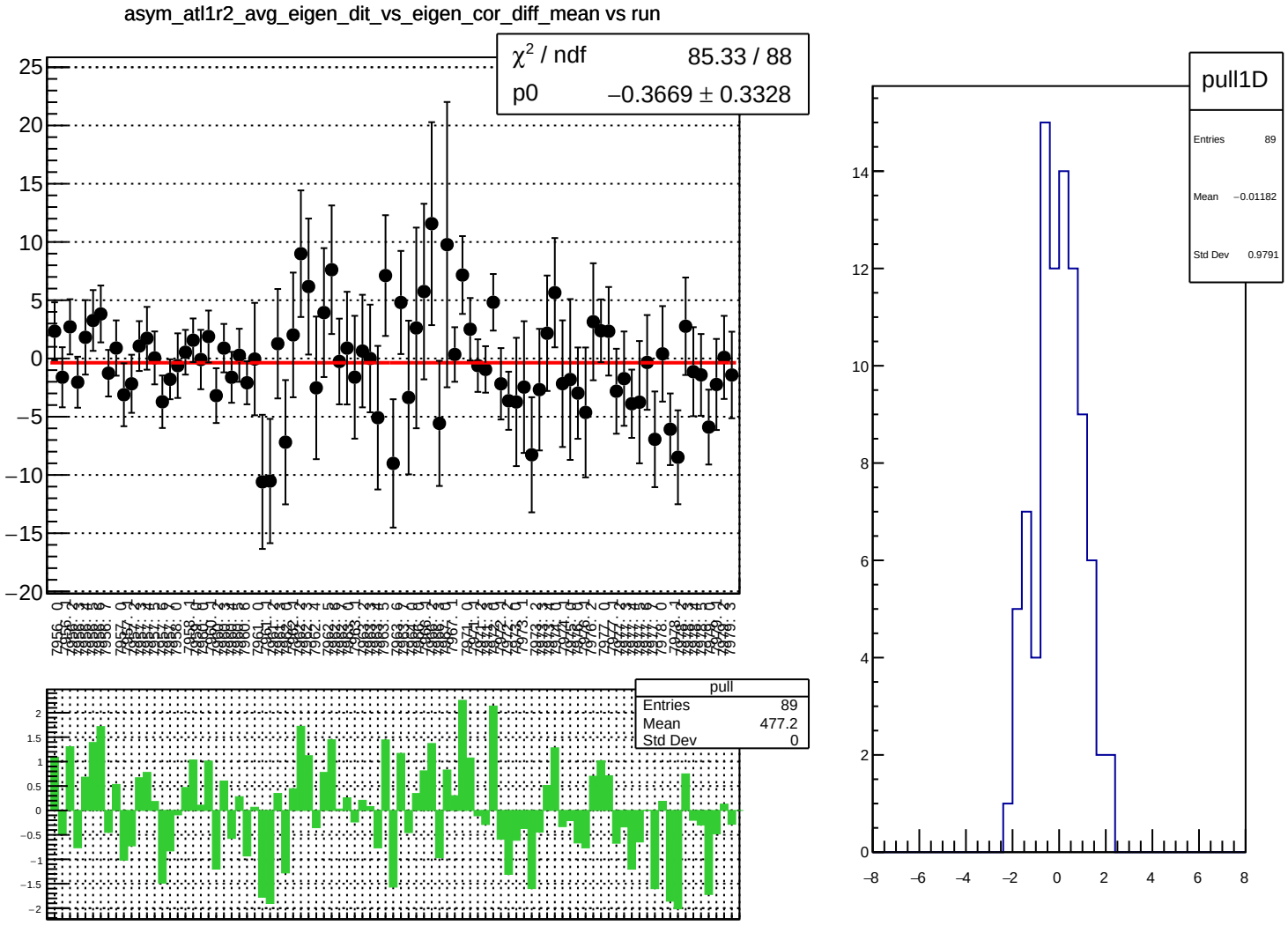

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.23 / 88
p0 9.271e−06 ± 1.843e−05
pull
Entries 89
Mean 40.71
Std Dev 0

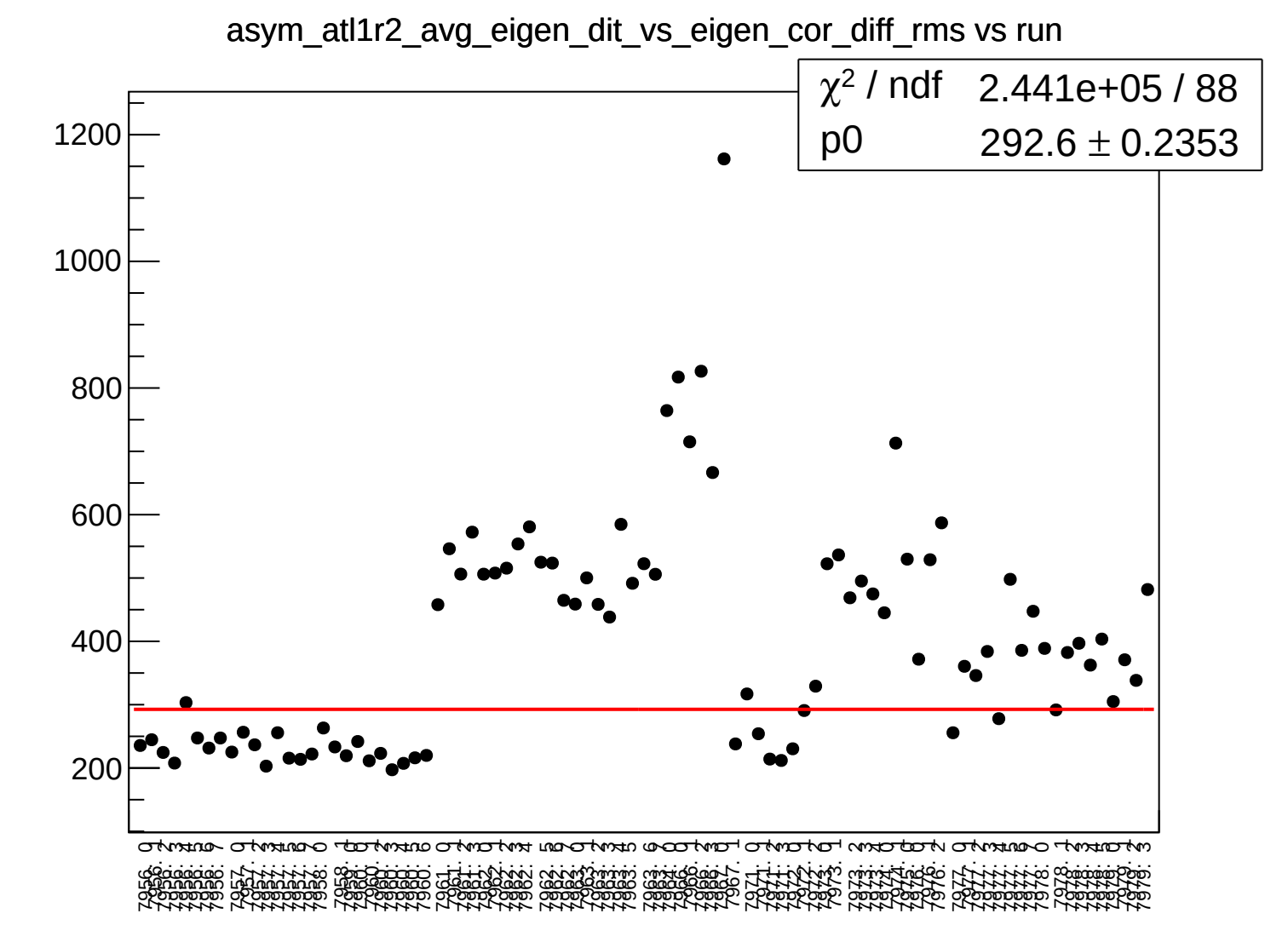

pull1D
Entries 89
Mean 0.05531
Std Dev 0.9827

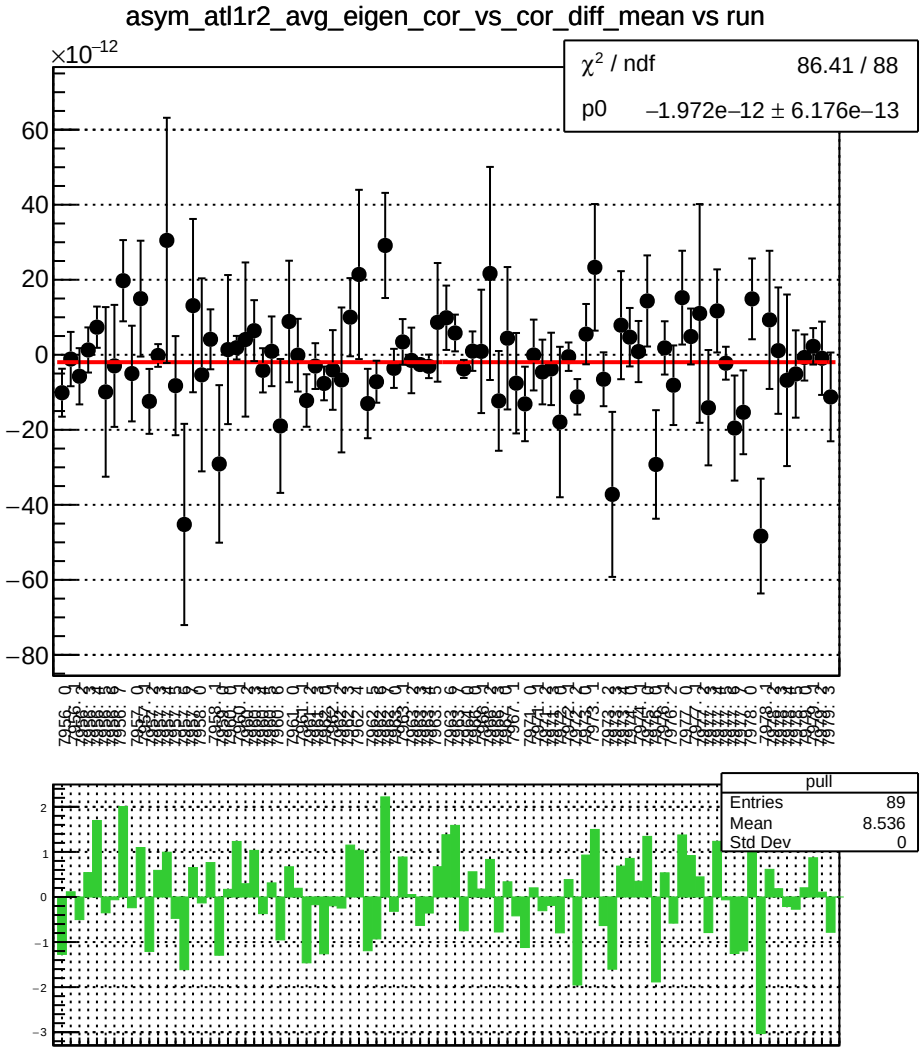

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.748e+04 / 88
p0 0.01711 ± 1.303e–05
0.024
0.022
0.02
0.018
0.016
0.014

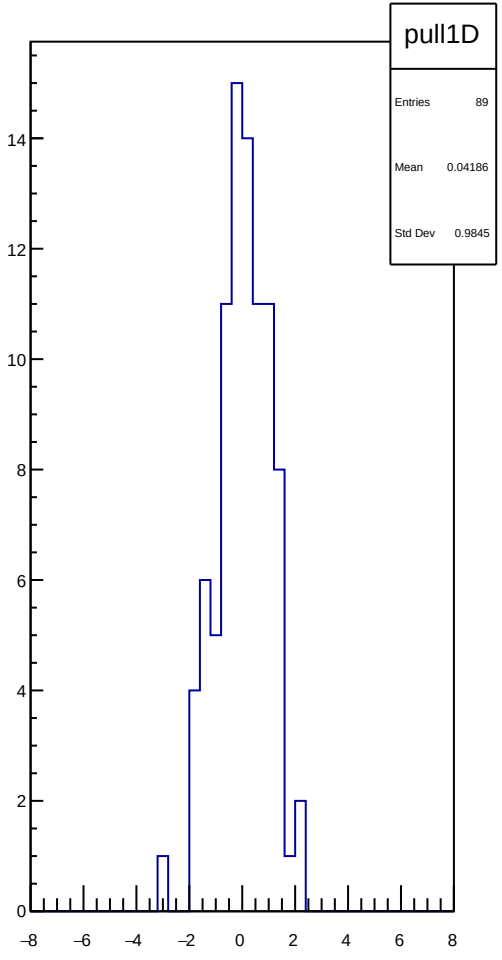

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.33 / 88
p0 −0.3669 ± 0.3328
pull
Entries 89
Mean 477.2
Std Dev 0
pull1D
Entries 89
Mean −0.01182
Std Dev 0.9791

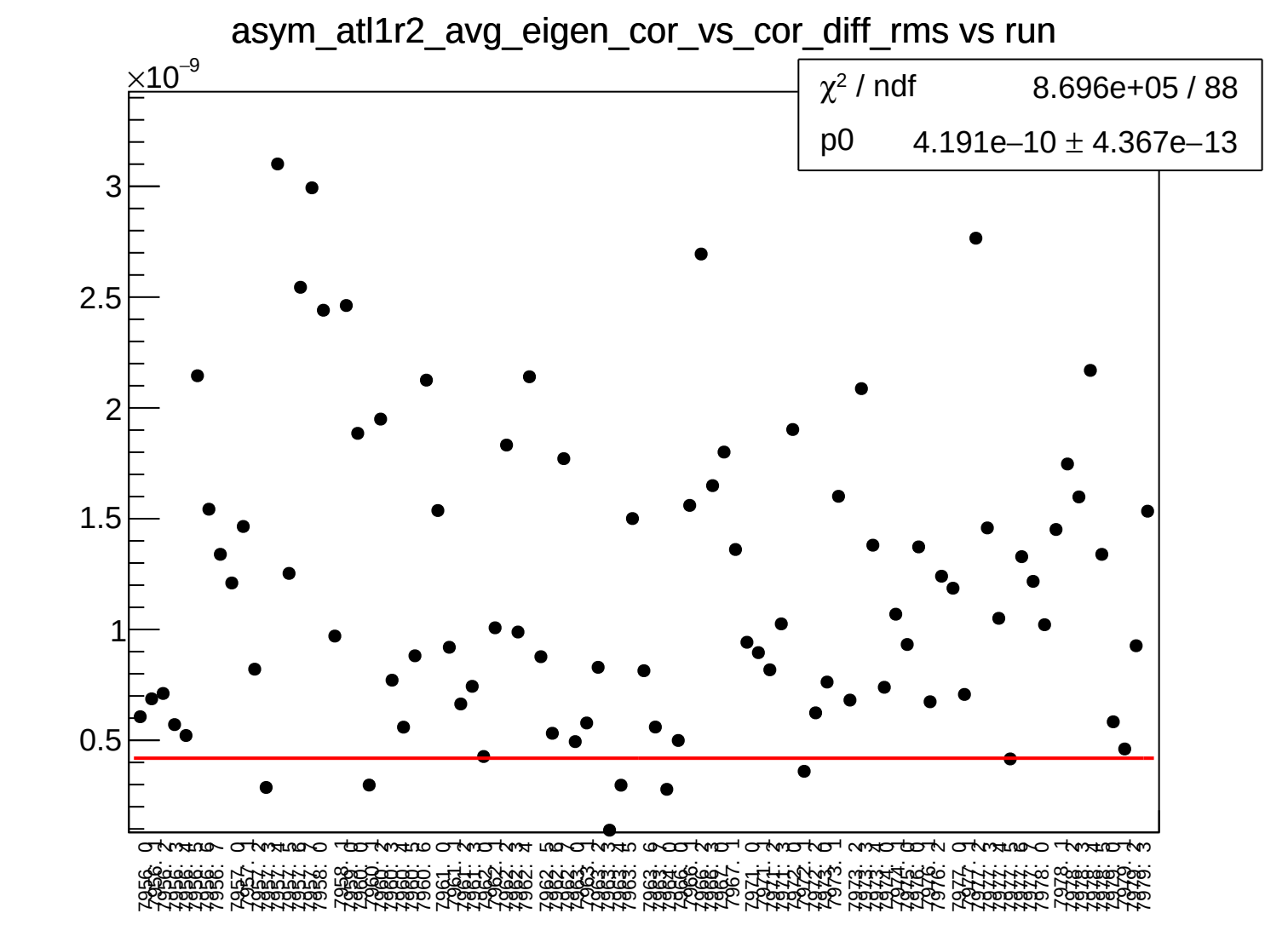

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.441e+05 / 88
p0 292.6 ± 0.2353
1200
1000
800
600
400
200

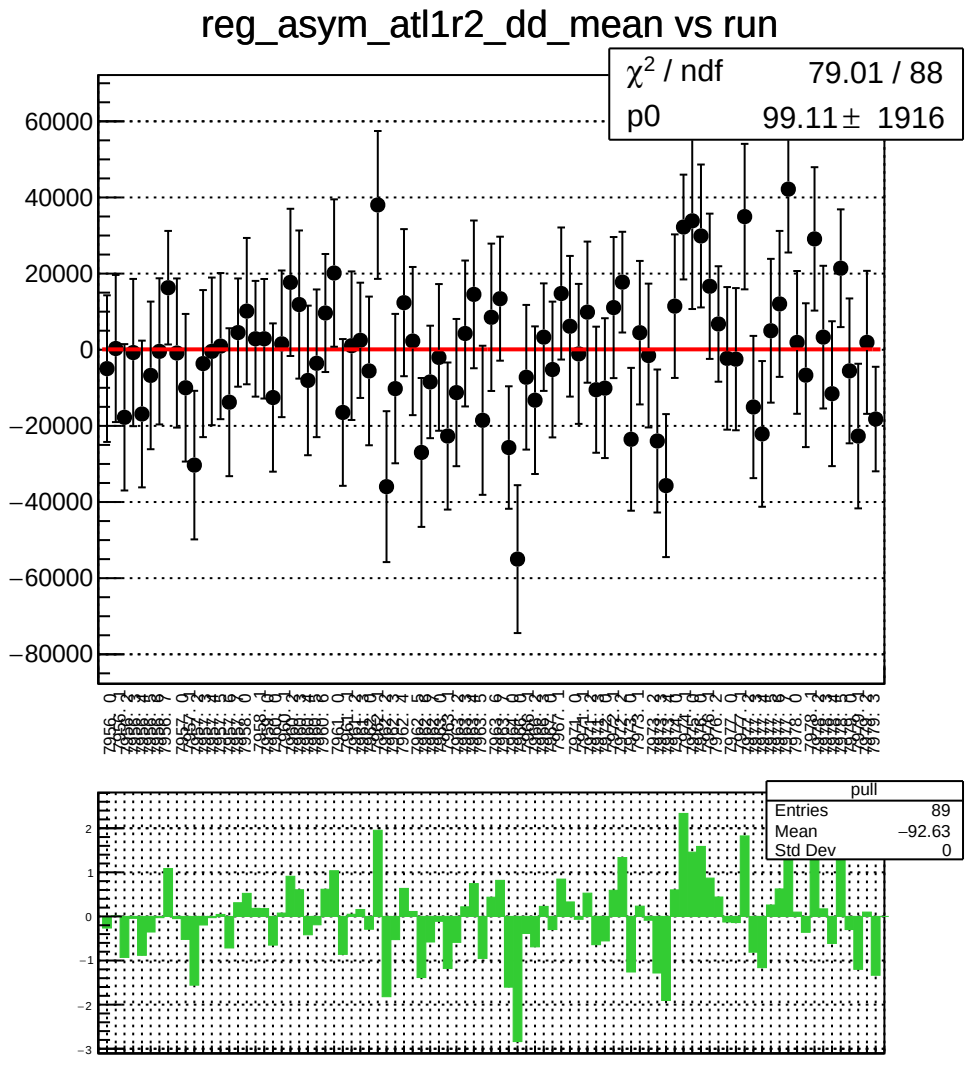

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.33 / 88
p0 −0.3669 ± 0.3328
pull
Entries 89
Mean 477.2
Std Dev 0
pull1D
Entries 89
Mean −0.01182
Std Dev 0.9791

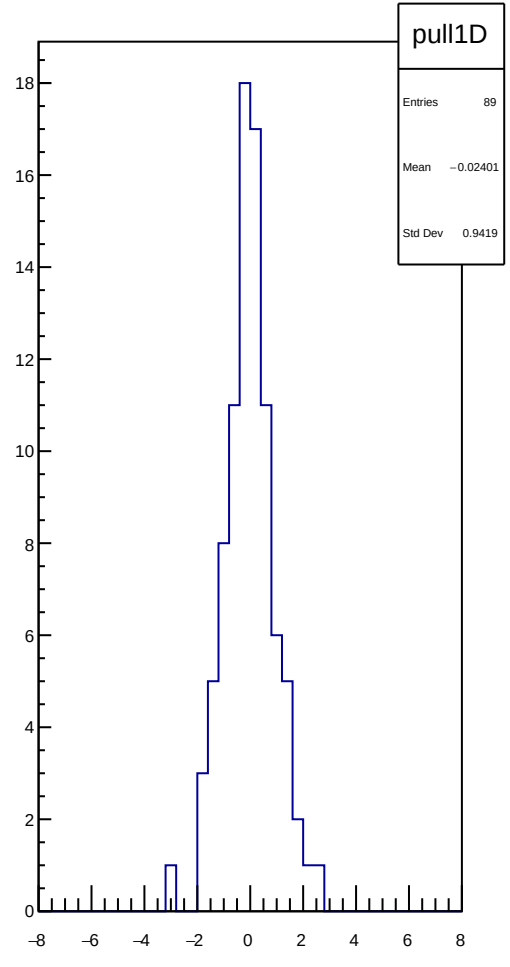

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.441e+05 / 88
p0 292.6 ± 0.2353
1200
1000
800
600
400
200

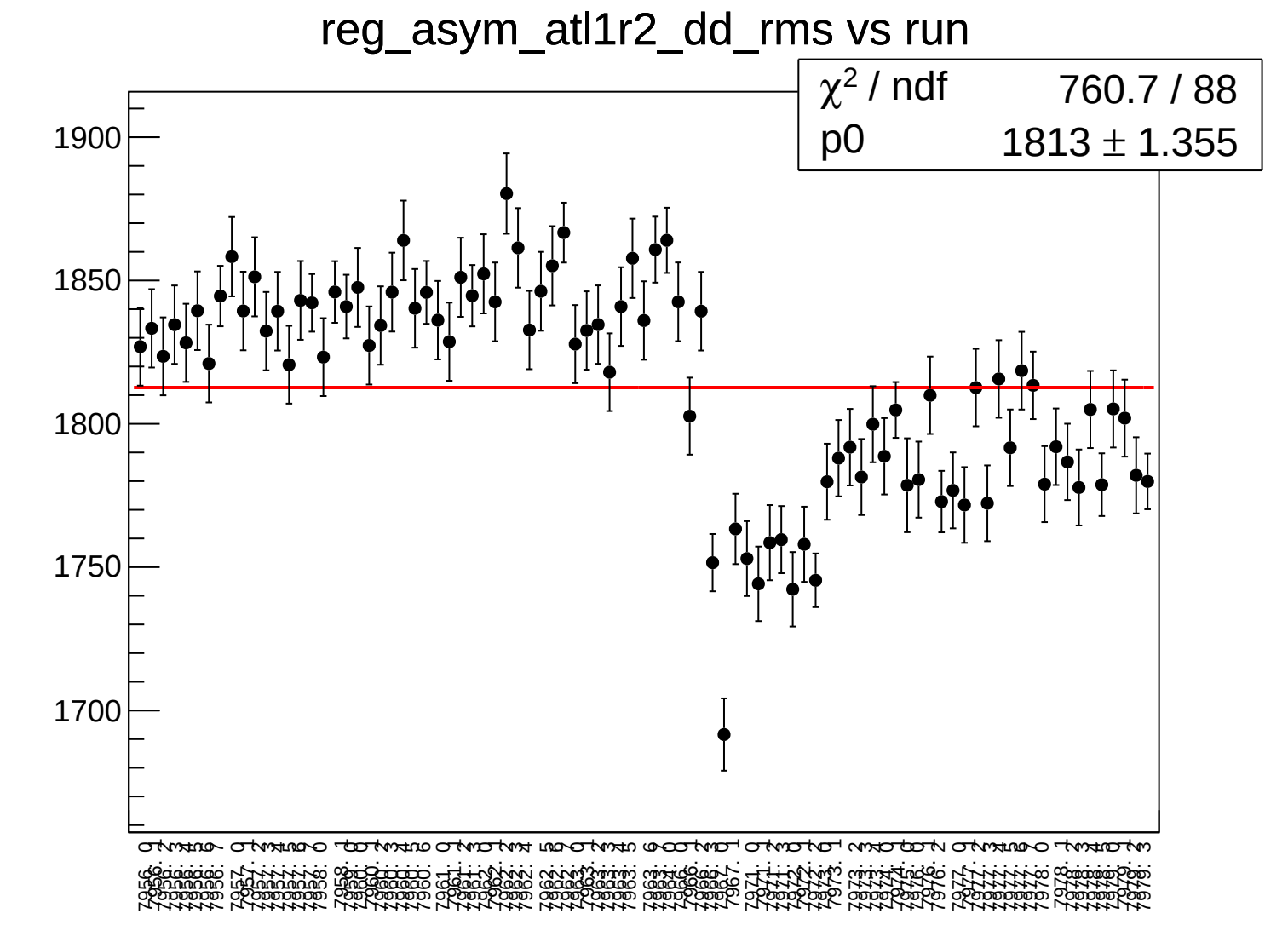

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.41 / 88
p0 −1.972e−12 ± 6.176e−13
60
40
20
0
−20
−40
−60
−80
pull
Entries 89
Mean 8.536
Std Dev 0
2
1
0
−1
−2
−3

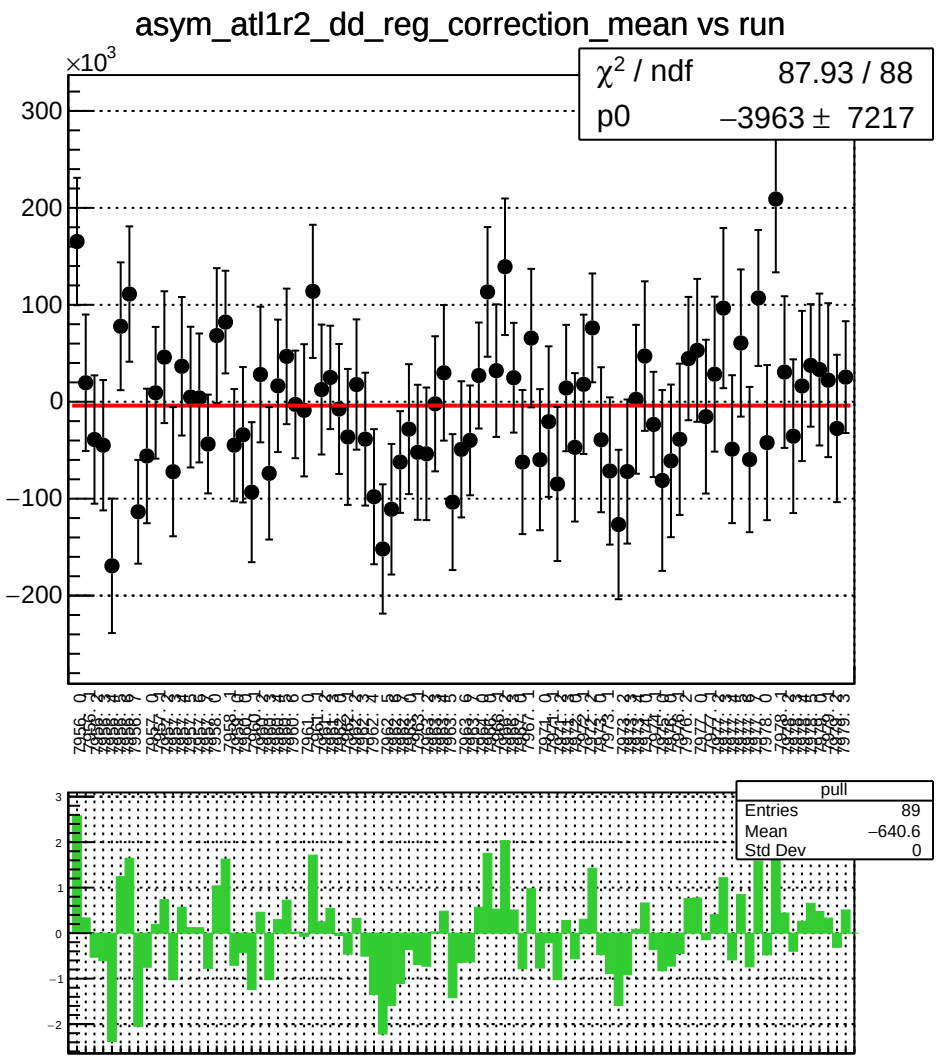

pull1D
Entries 89
Mean 0.04186
Std Dev 0.9845
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

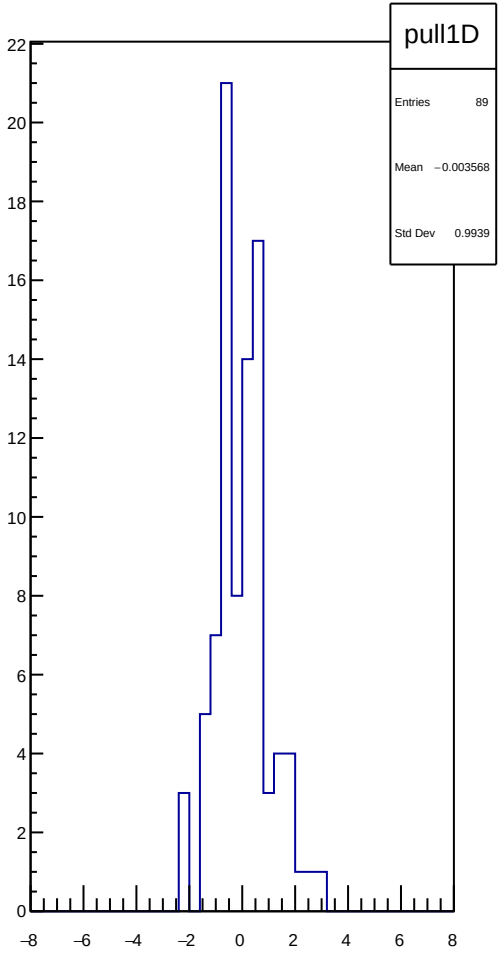

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.696e+05 / 88
p0 4.191e−10 ± 4.367e−13
3
2.5
2
1.5
1
0.5

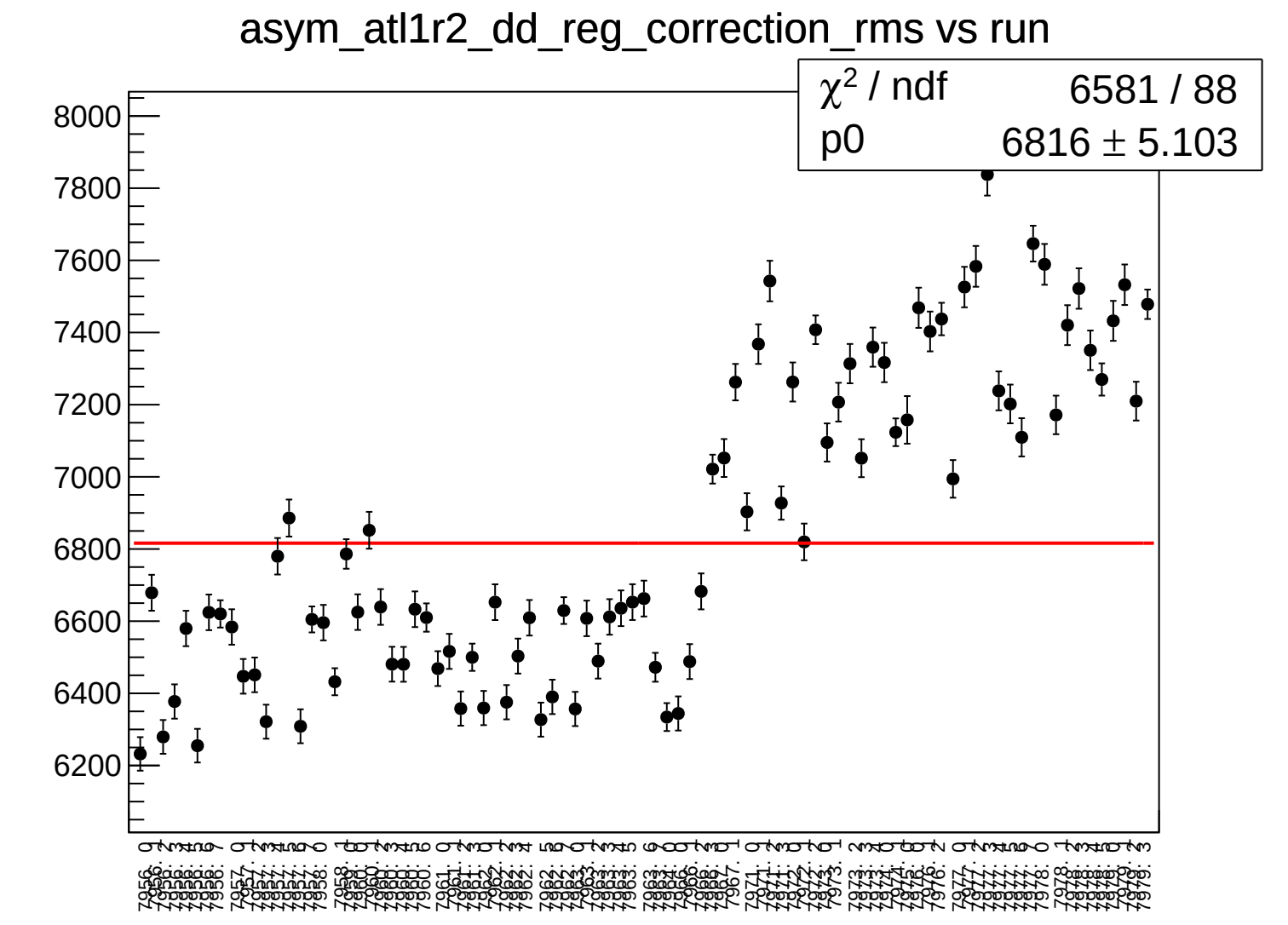

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 79.01 / 88
p0 99.11 ± 1916
pull
Entries 89
Mean −92.63
Std Dev 0

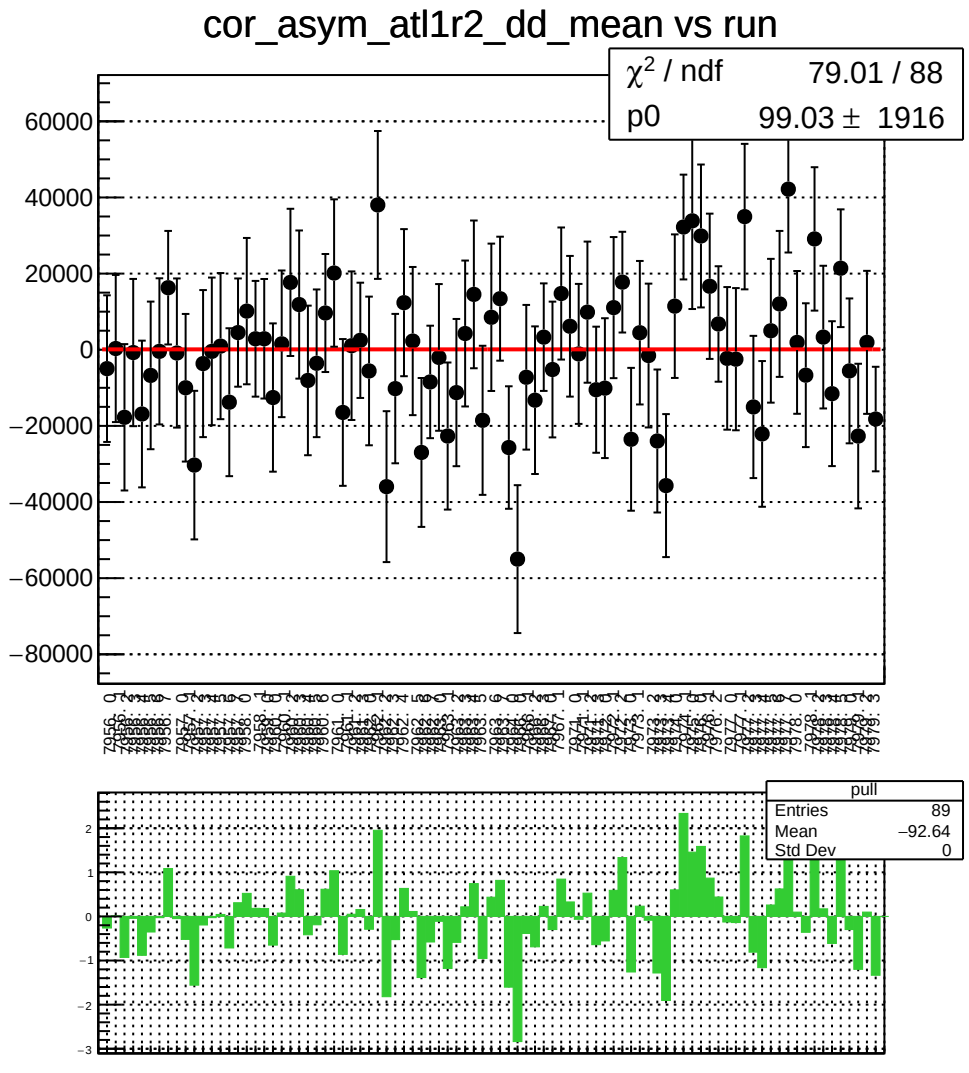

pull1D
Entries 89
Mean −0.02401
Std Dev 0.9419

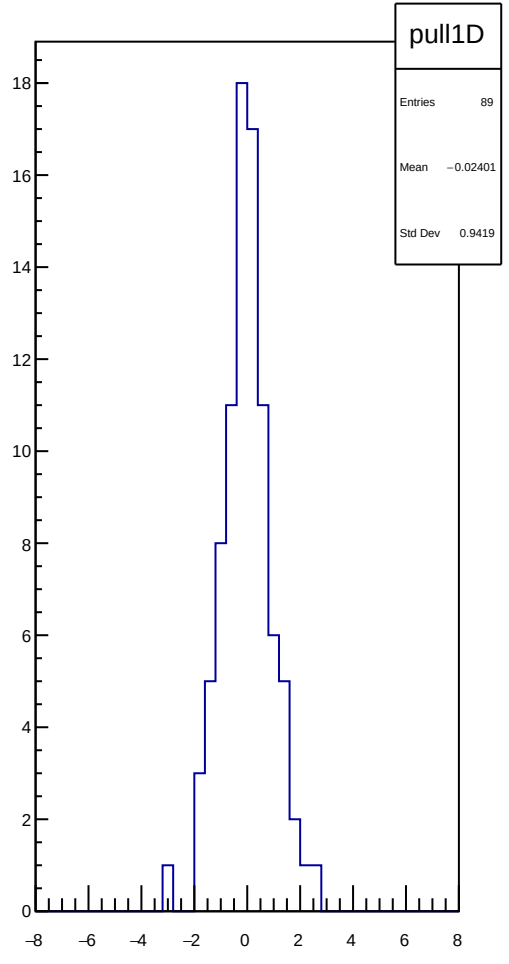

reg_asym_atl1r2_dd_rms vs run
$\chi^2$ / ndf 760.7 / 88
p0 1813 ± 1.355
1900
1850
1800
1750
1700

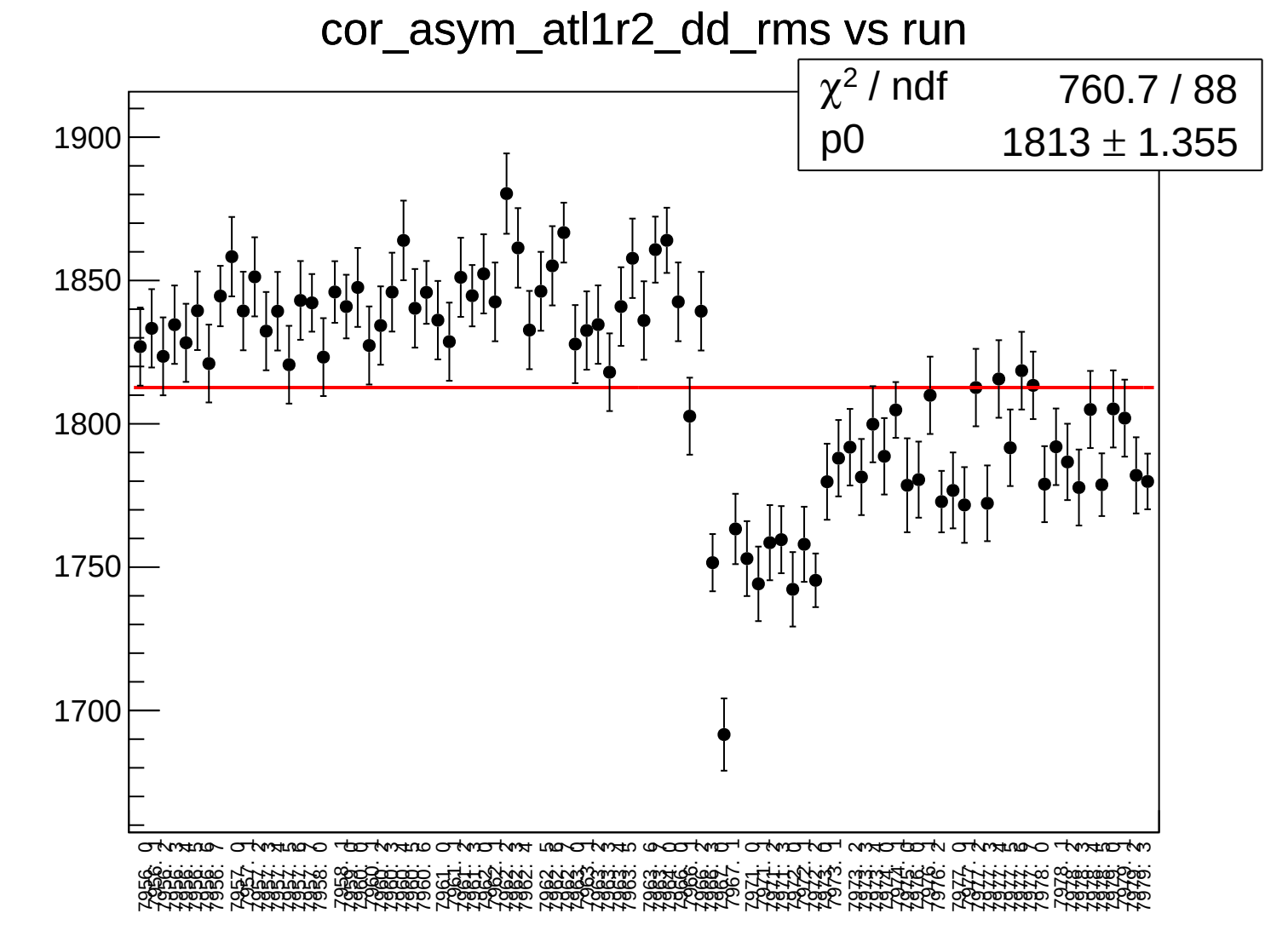

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 87.93 / 88
p0 −3963 ± 7217
300
200
100
0
−100
−200
pull
Entries 89
Mean −640.6
Std Dev 0
3
2
1
0
−1
−2

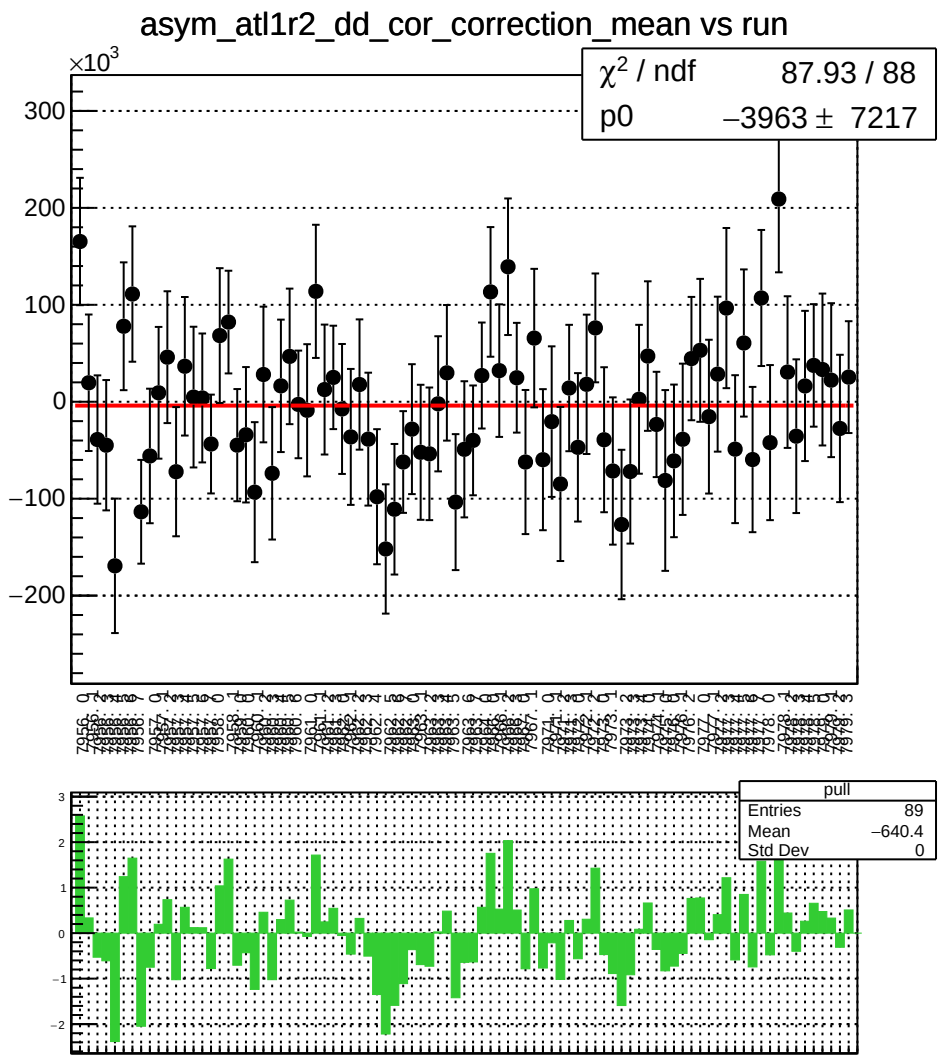

pull1D
Entries 89
Mean −0.003568
Std Dev 0.9939
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

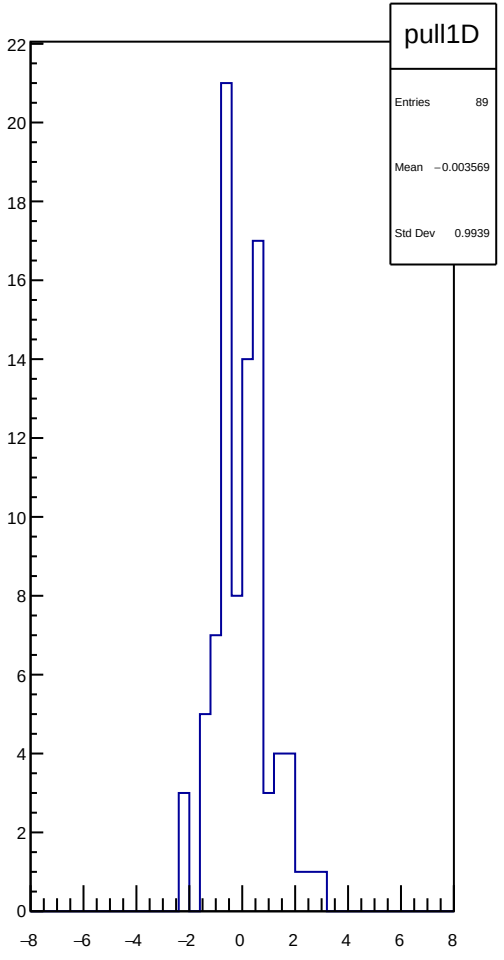

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 6581 / 88
p0 6816 ± 5.103
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

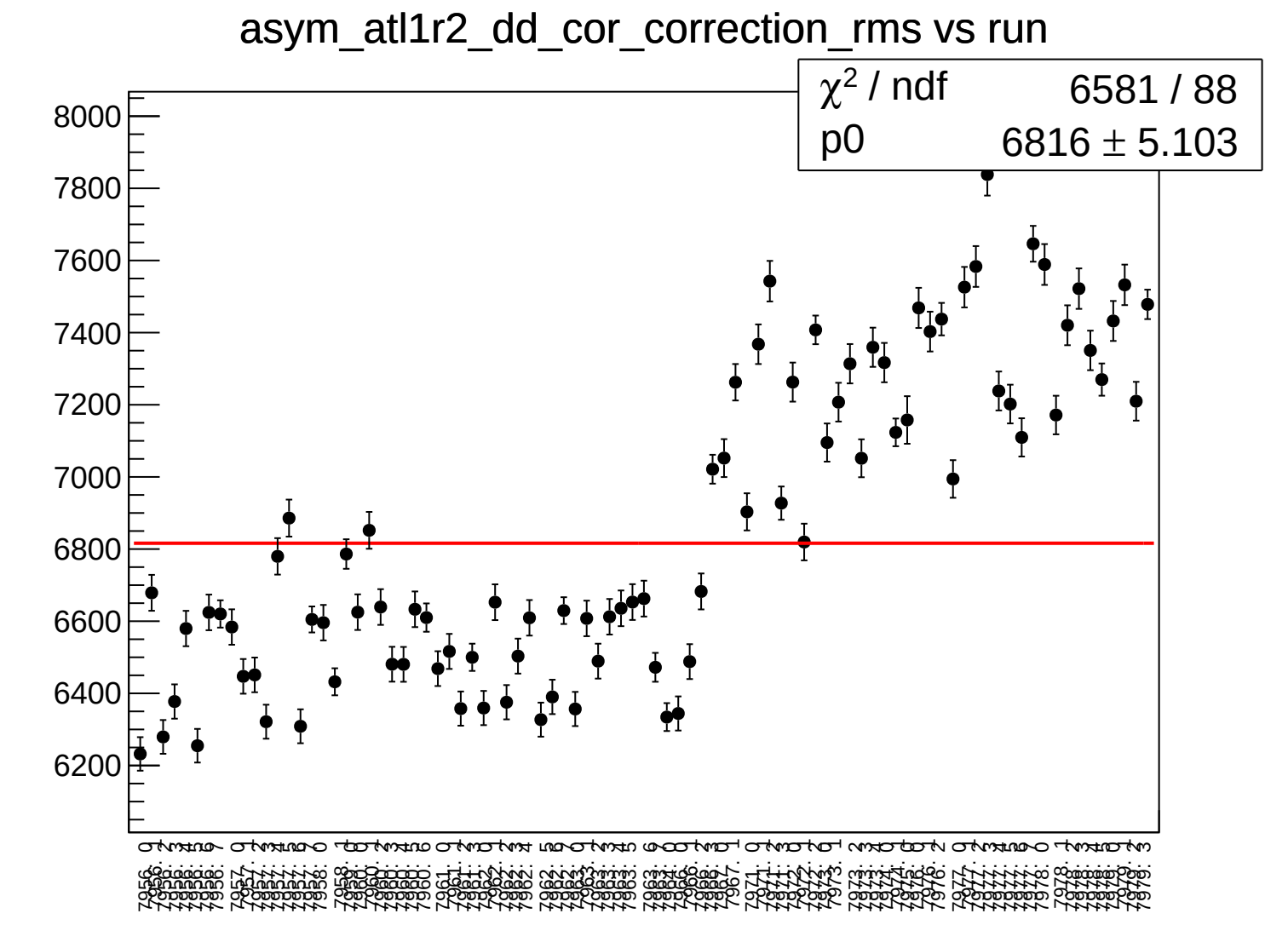

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 79.01 / 88
p0 99.03 ± 1916
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −92.64
Std Dev 0
2
1
0
−1
−2
−3

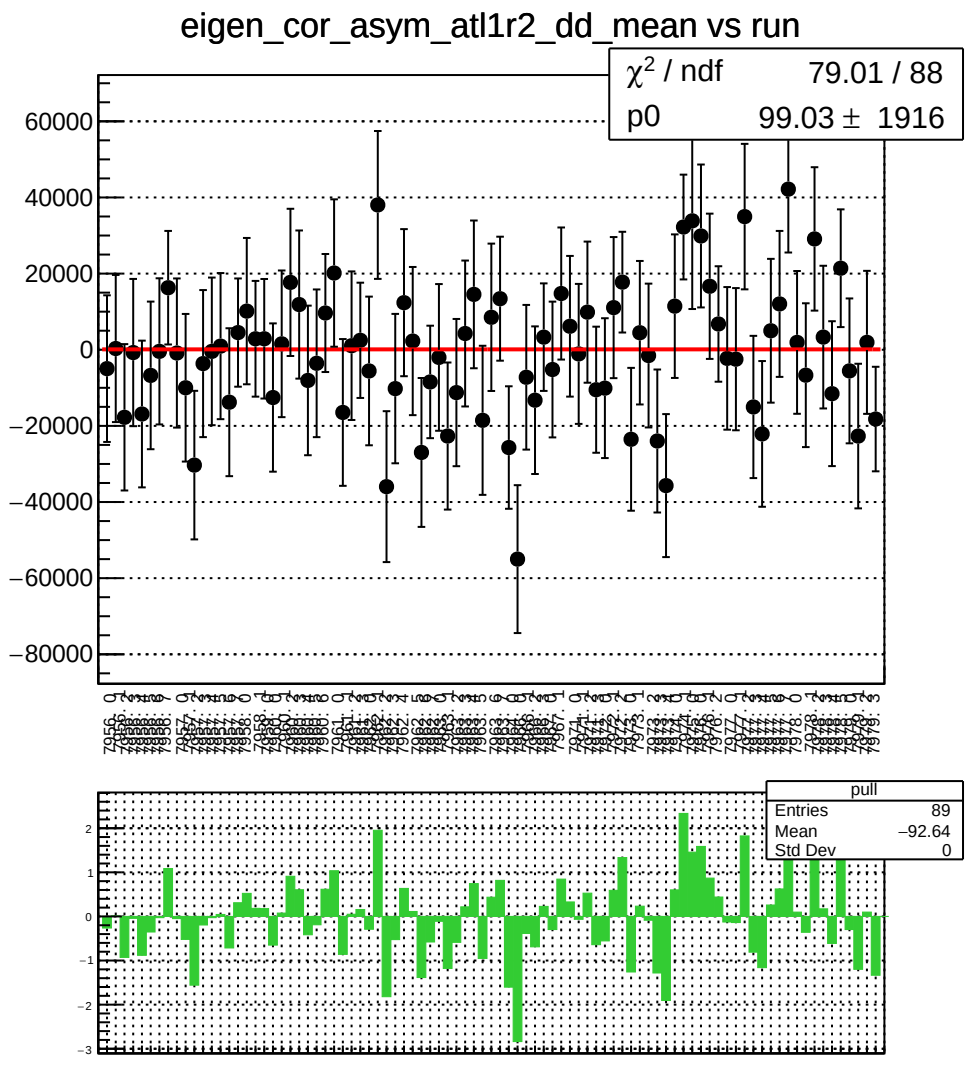

pull1D
Entries 89
Mean −0.02401
Std Dev 0.9419
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

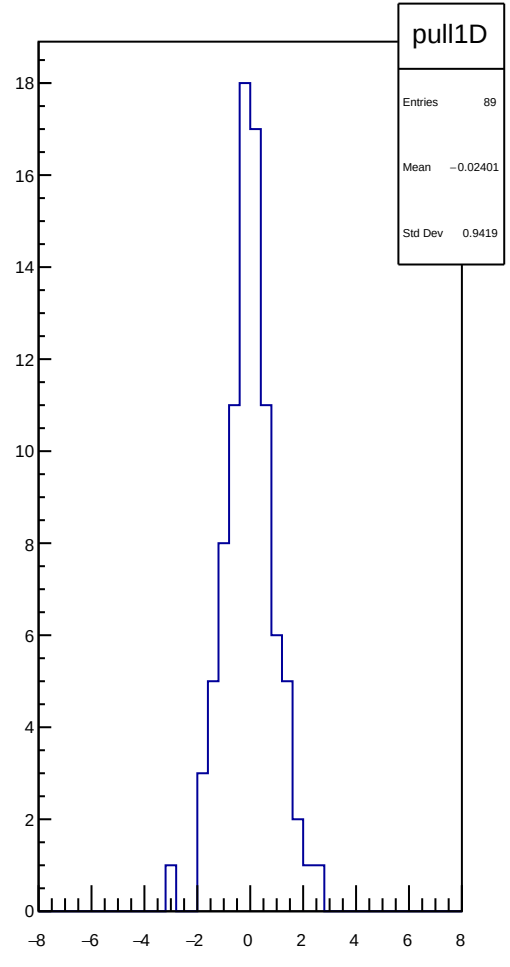

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 760.7 / 88
p0 1813 ± 1.355
1900
1850
1800
1750
1700

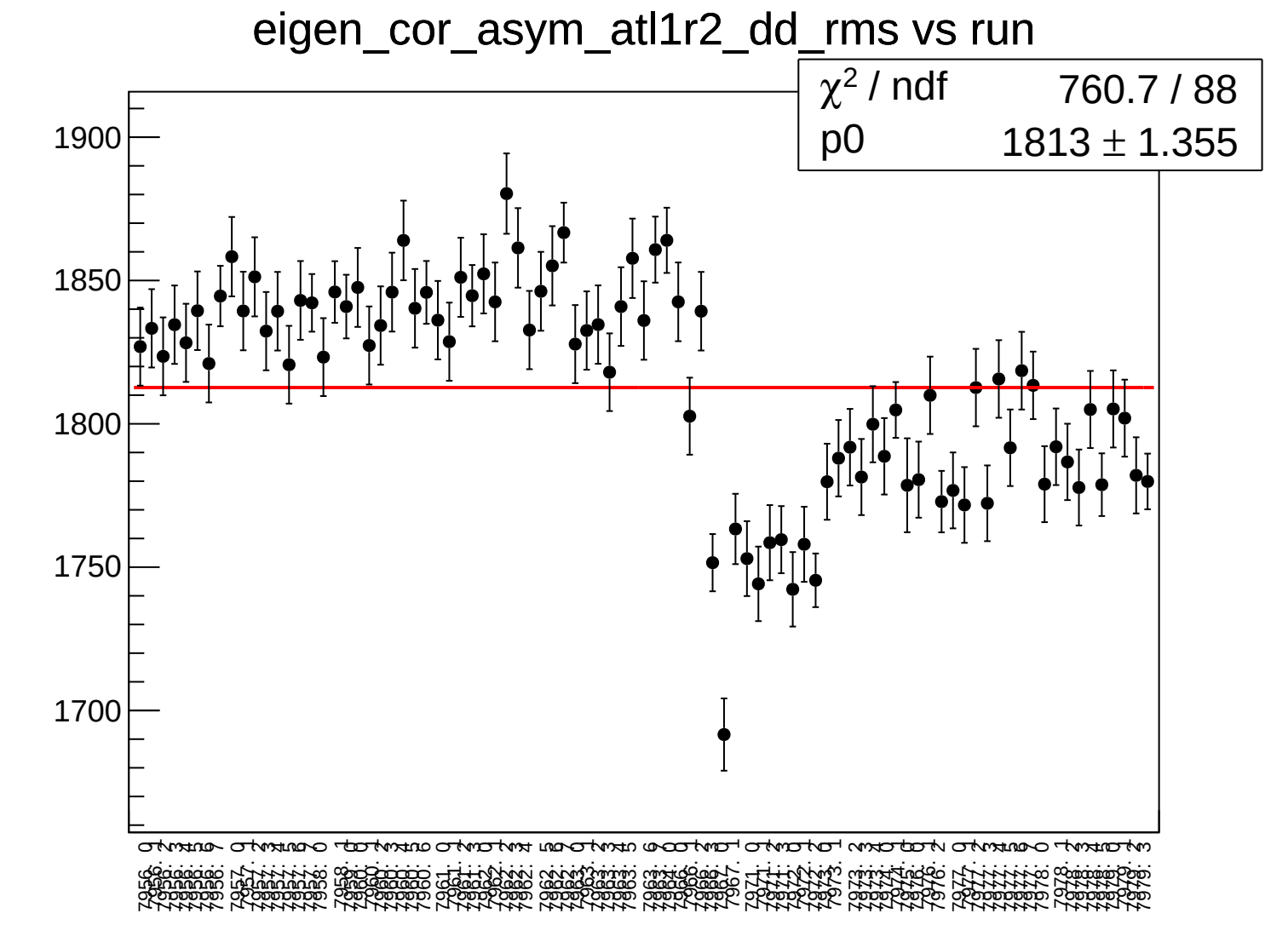

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 87.93 / 88
p0 −3963 ± 7217
300
200
100
0
−100
−200
pull
Entries 89
Mean −640.4
Std Dev 0
3
2
1
0
−1
−2

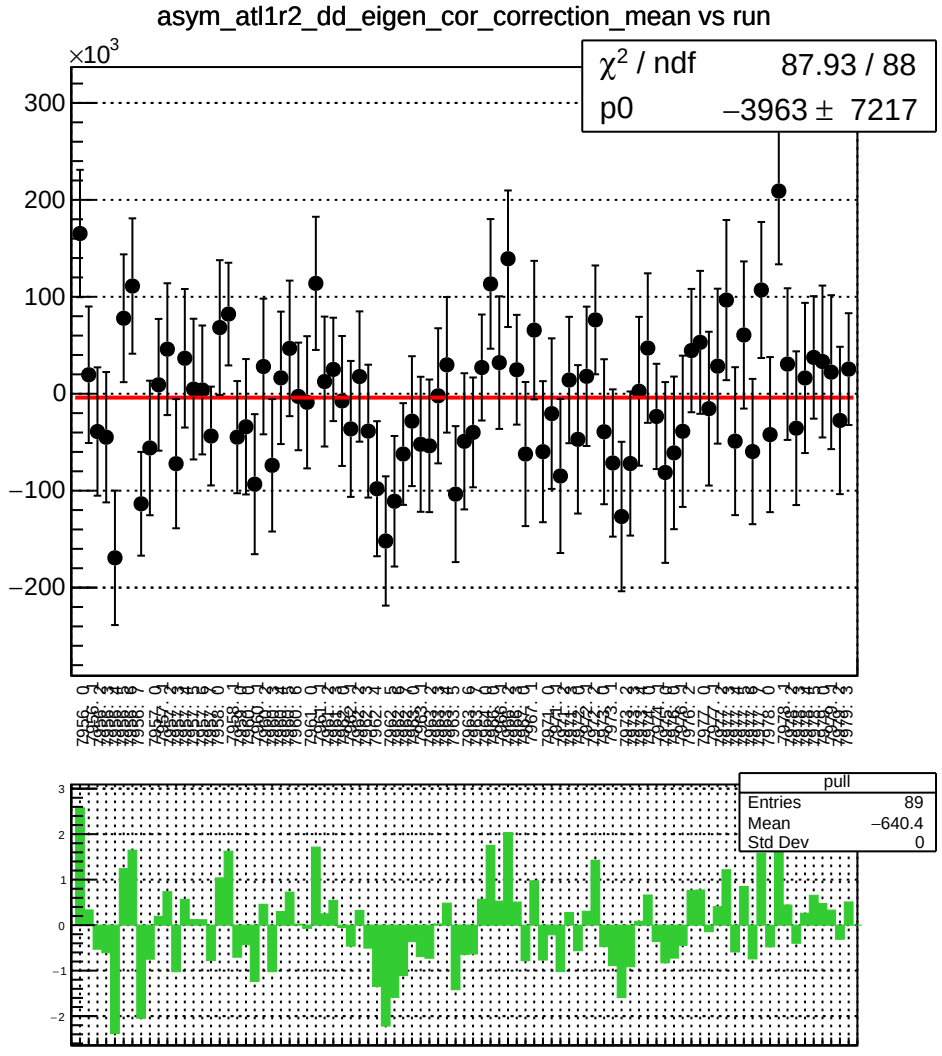

pull1D
Entries 89
Mean −0.003569
Std Dev 0.9939
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

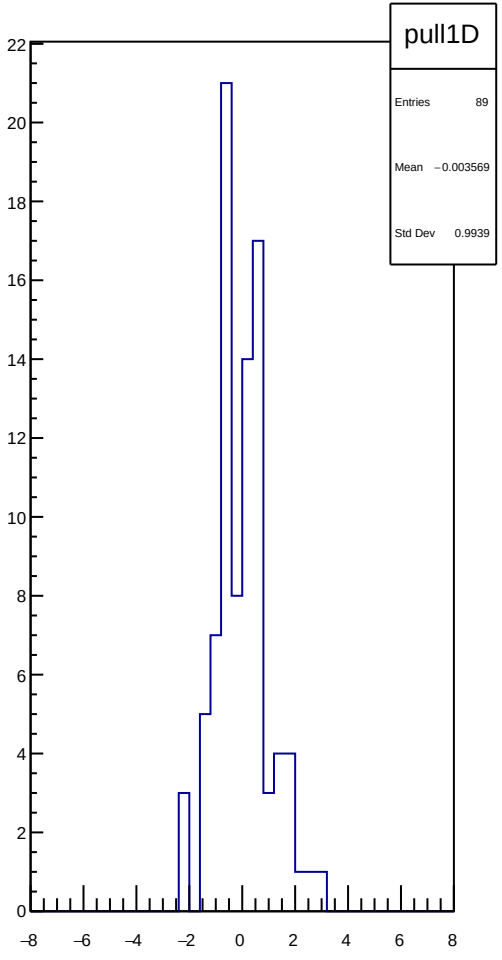

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 6581 / 88
p0 6816 ± 5.103
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

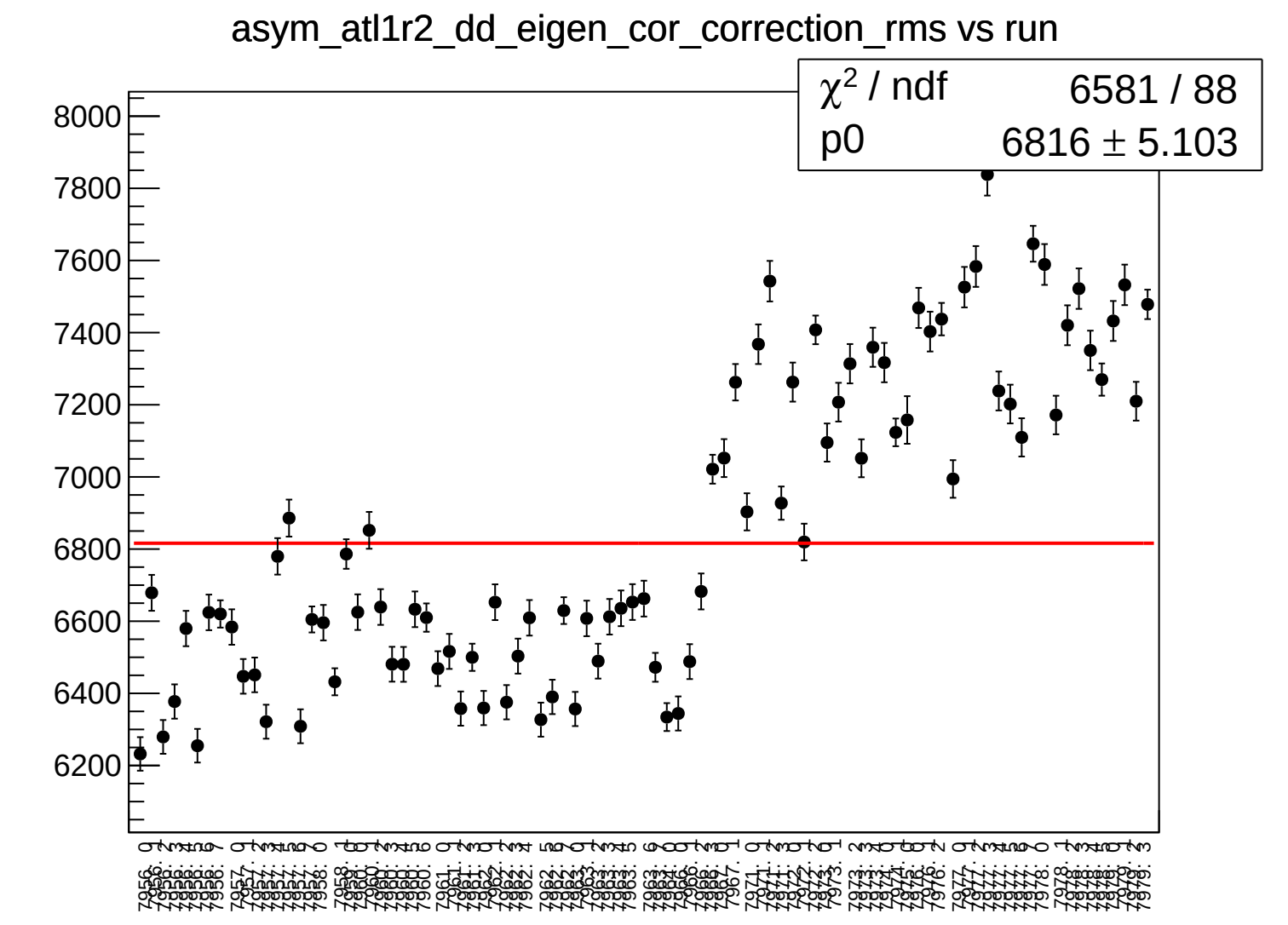

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 79.01 / 88
p0 99.03 ± 1916
pull
Entries 89
Mean −92.64
Std Dev 0

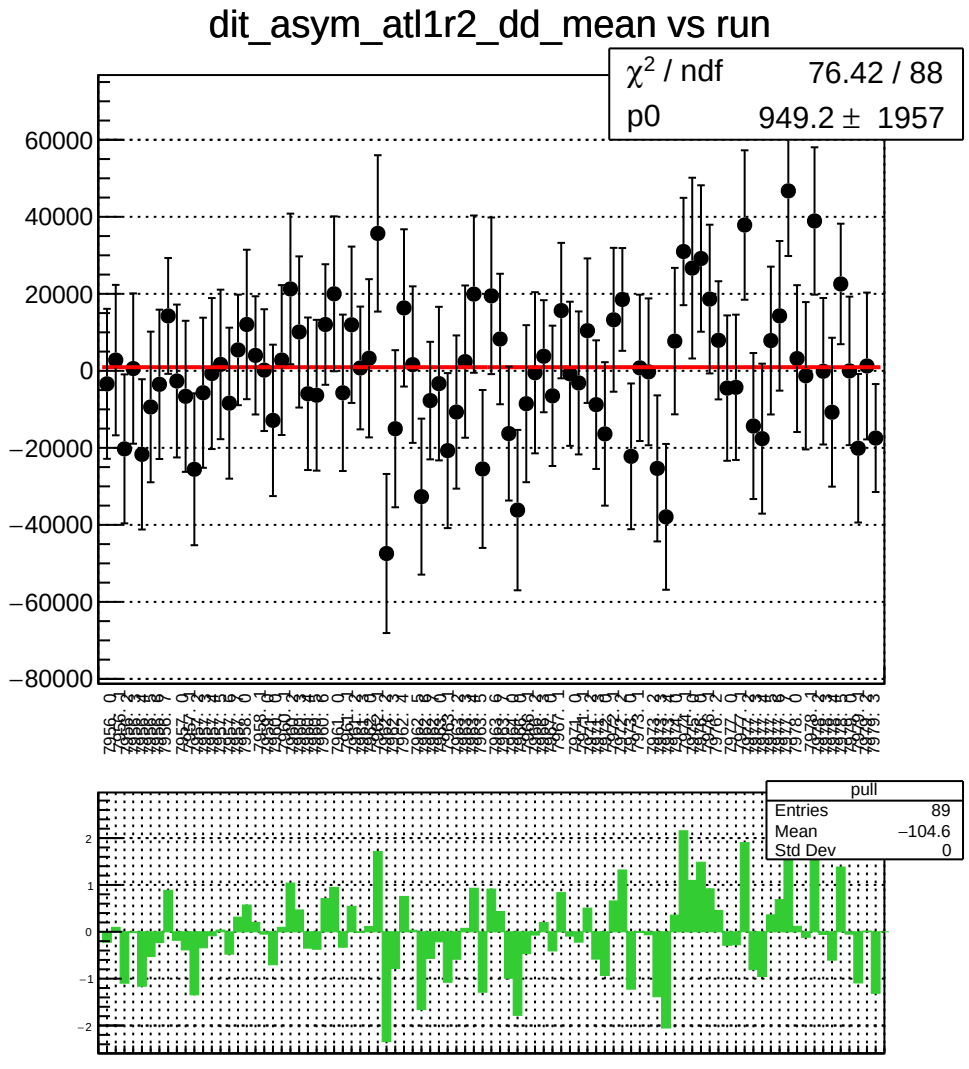

pull1D
Entries 89
Mean −0.02401
Std Dev 0.9419

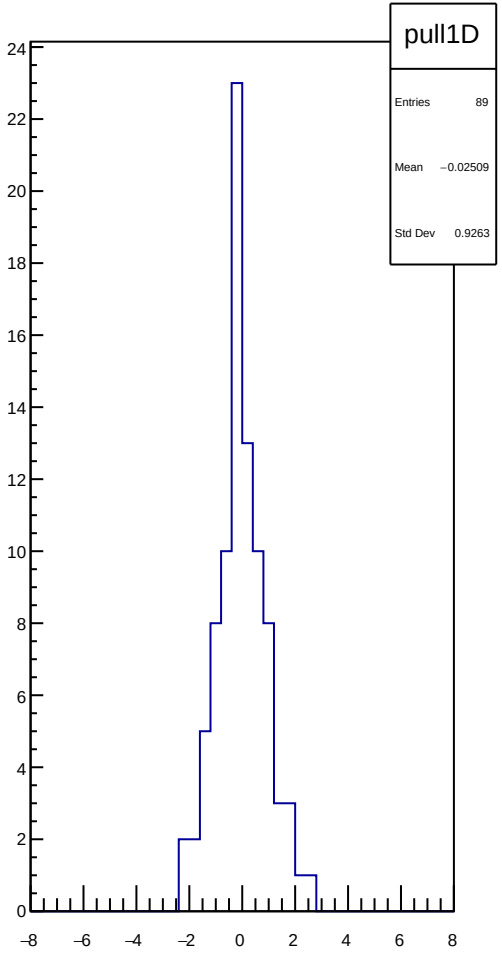

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 760.7 / 88
p0 1813 ± 1.355
1900
1850
1800
1750
1700

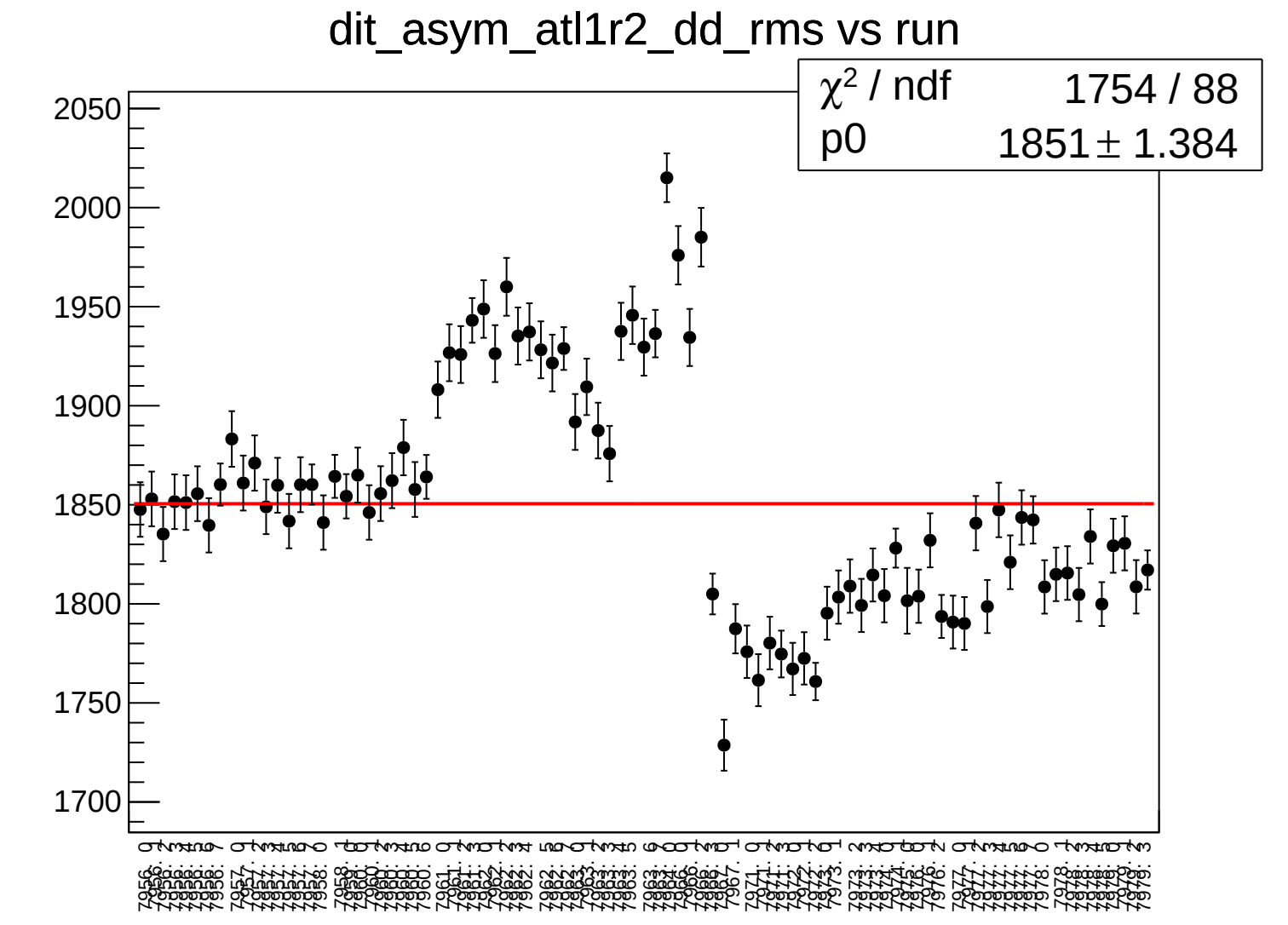

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.93 / 88
p0 −3963 ± 7217
300
200
100
0
−100
−200
pull
Entries 89
Mean −640.4
Std Dev 0
3
2
1
0
−1
−2

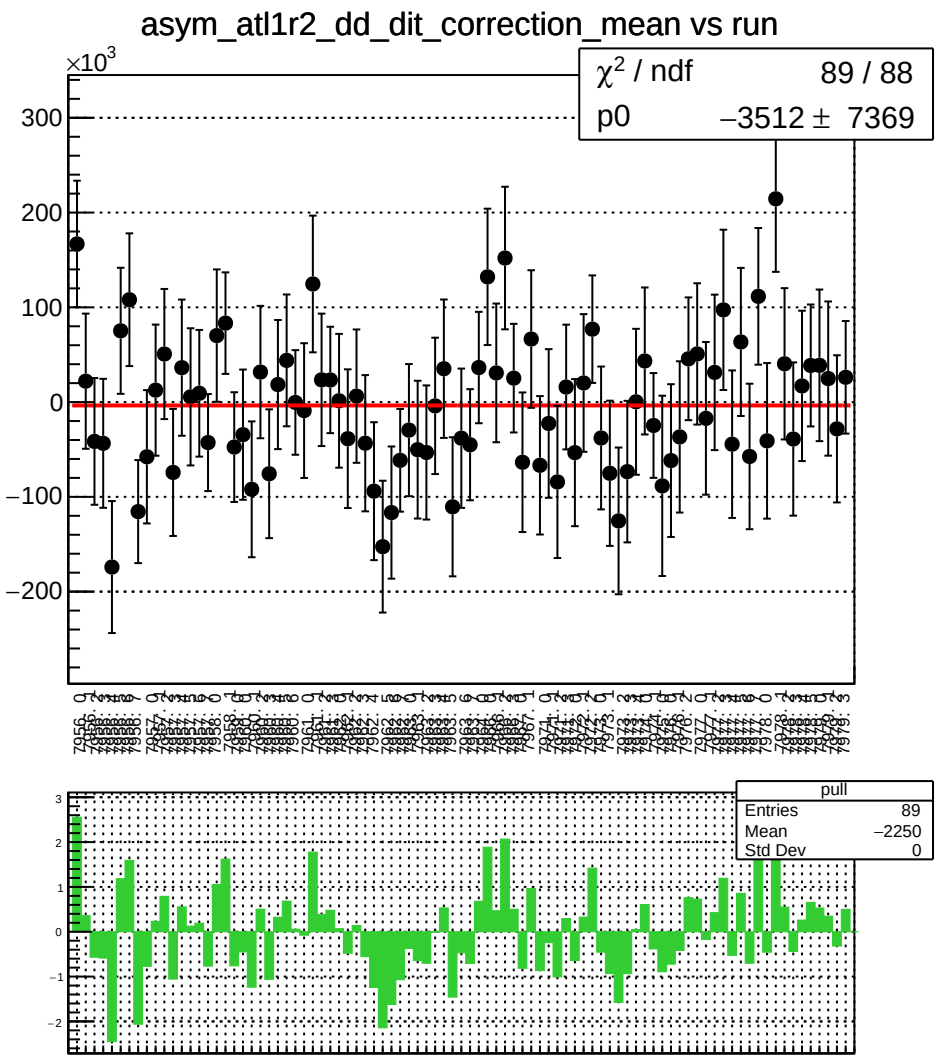

pull1D
Entries 89
Mean −0.003569
Std Dev 0.9939
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

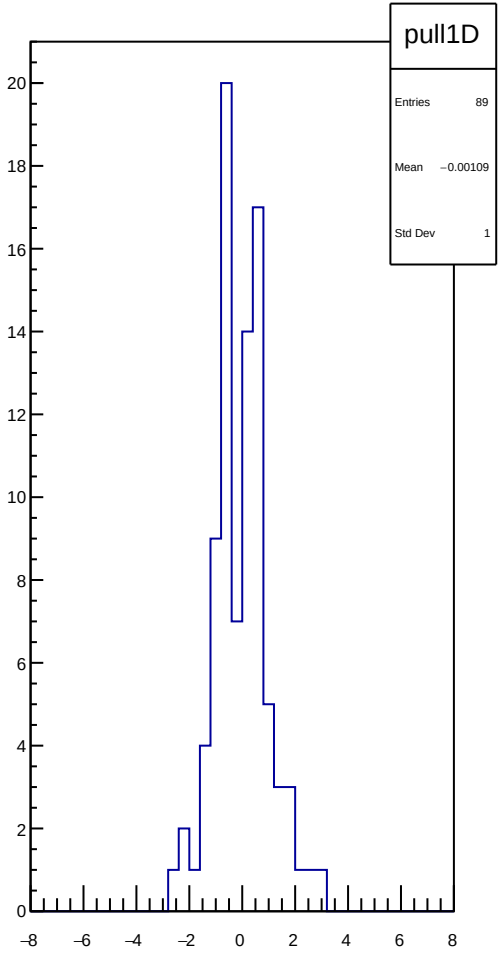

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6581 / 88
p0 6816 ± 5.103
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

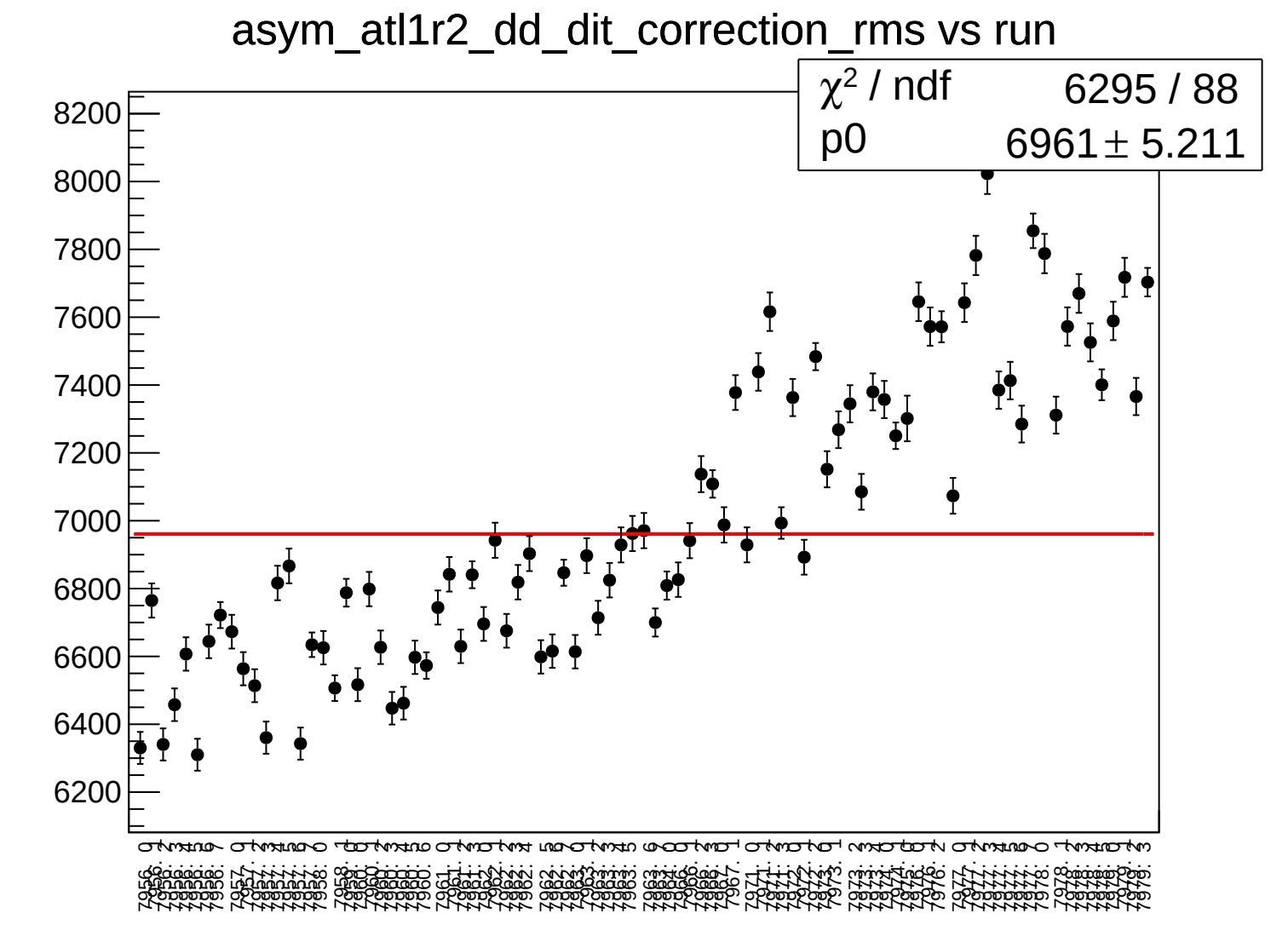

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 76.42 / 88
p0 949.2 ± 1957
pull
Entries 89
Mean −104.6
Std Dev 0

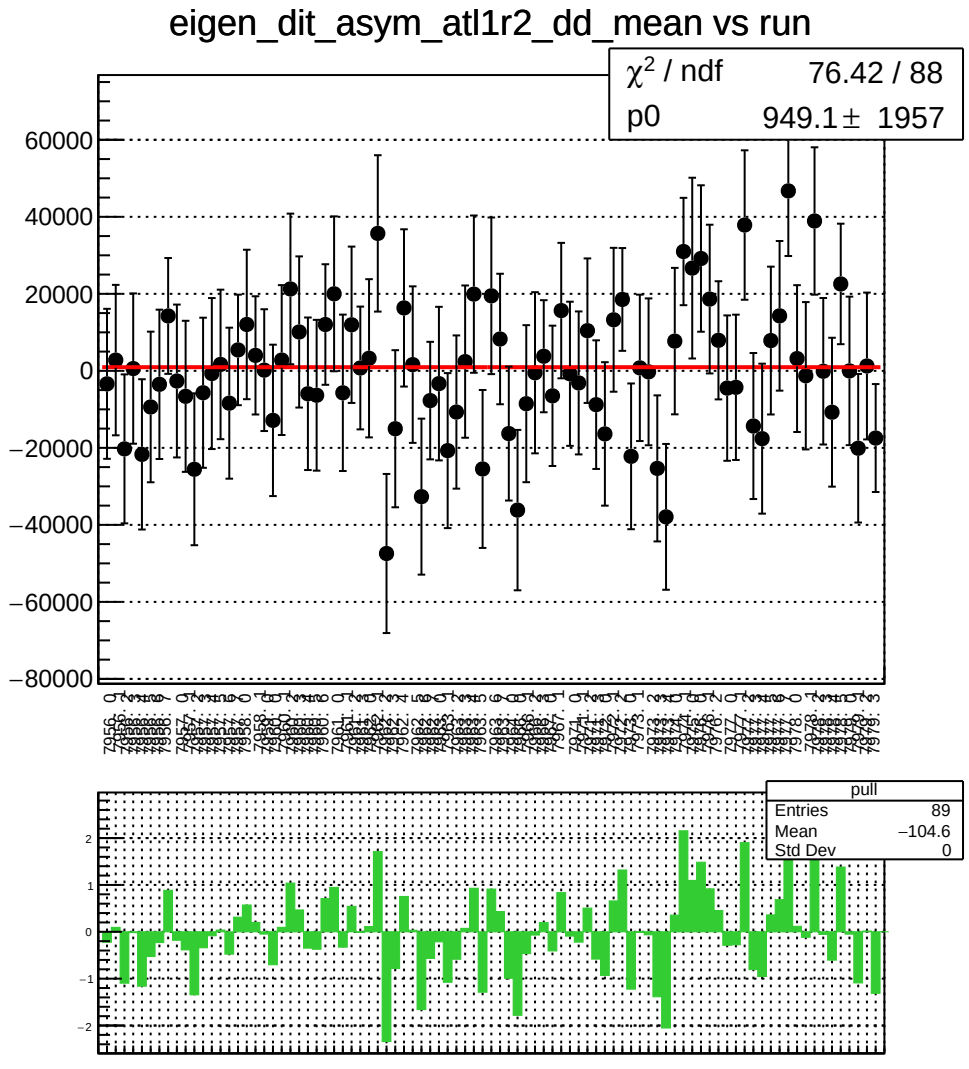

pull1D
Entries 89
Mean −0.02509
Std Dev 0.9263

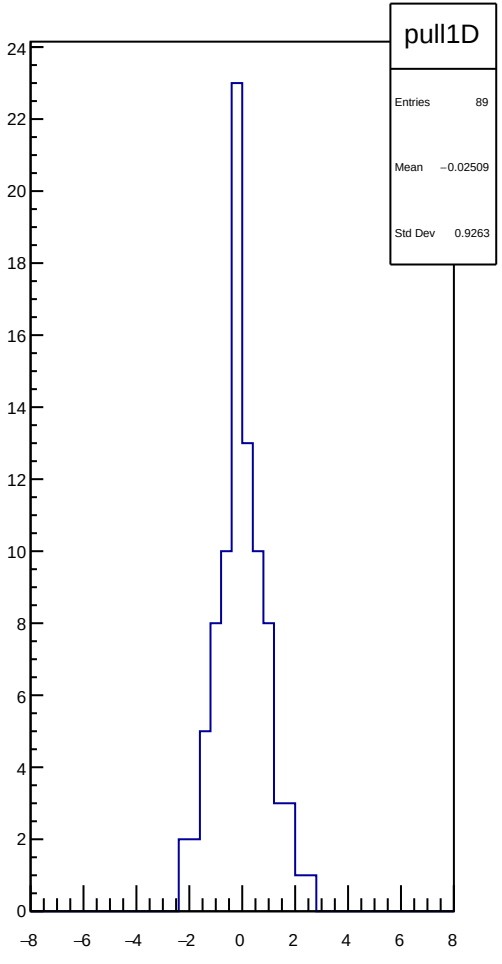

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1754 / 88
p0 1851 ± 1.384
2050
2000
1950
1900
1850
1800
1750
1700

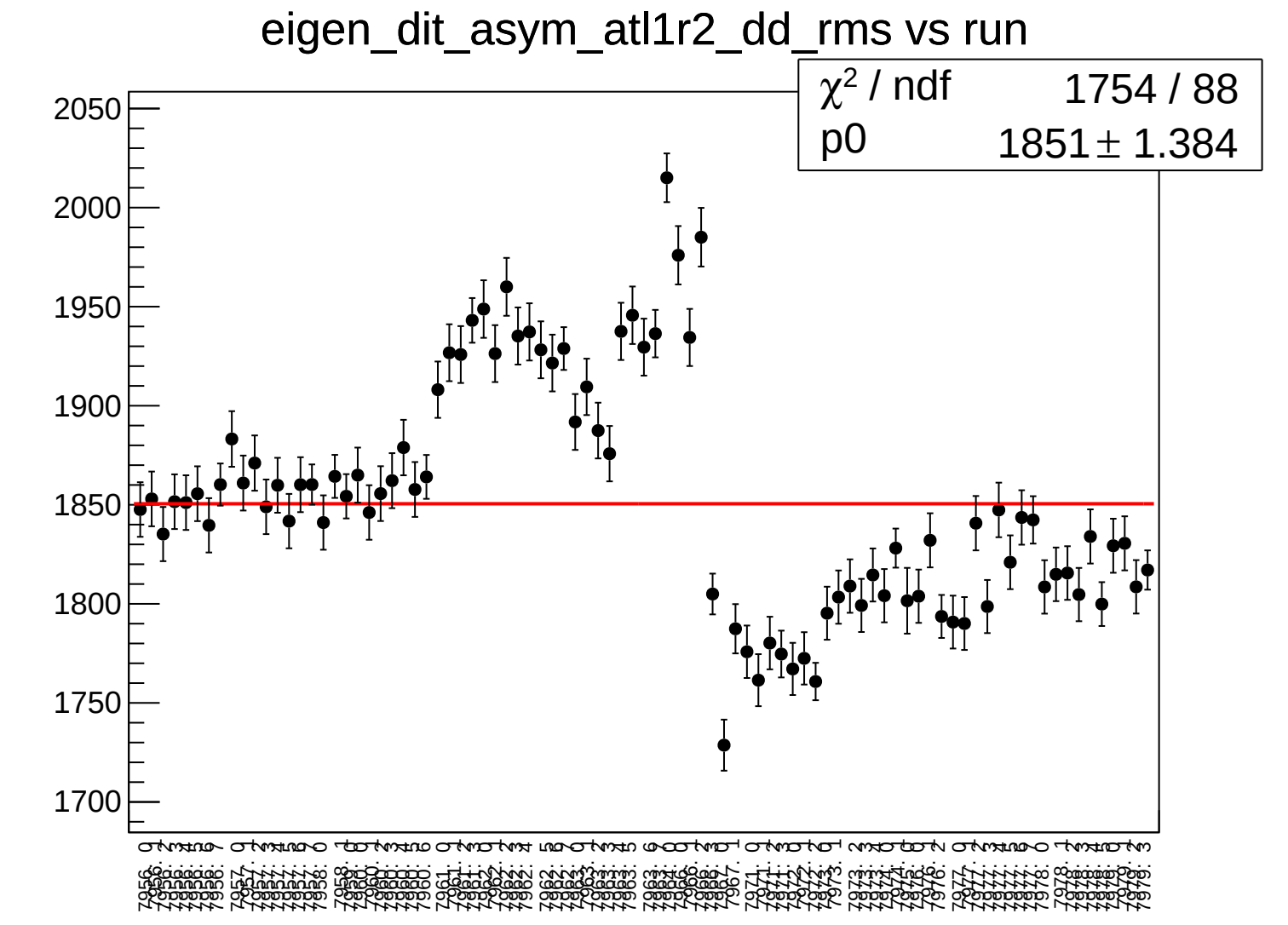

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 89 / 88
p0 −3512 ± 7369
300
200
100
0
−100
−200
pull
Entries 89
Mean −2250
Std Dev 0
3
2
1
0
−1
−2

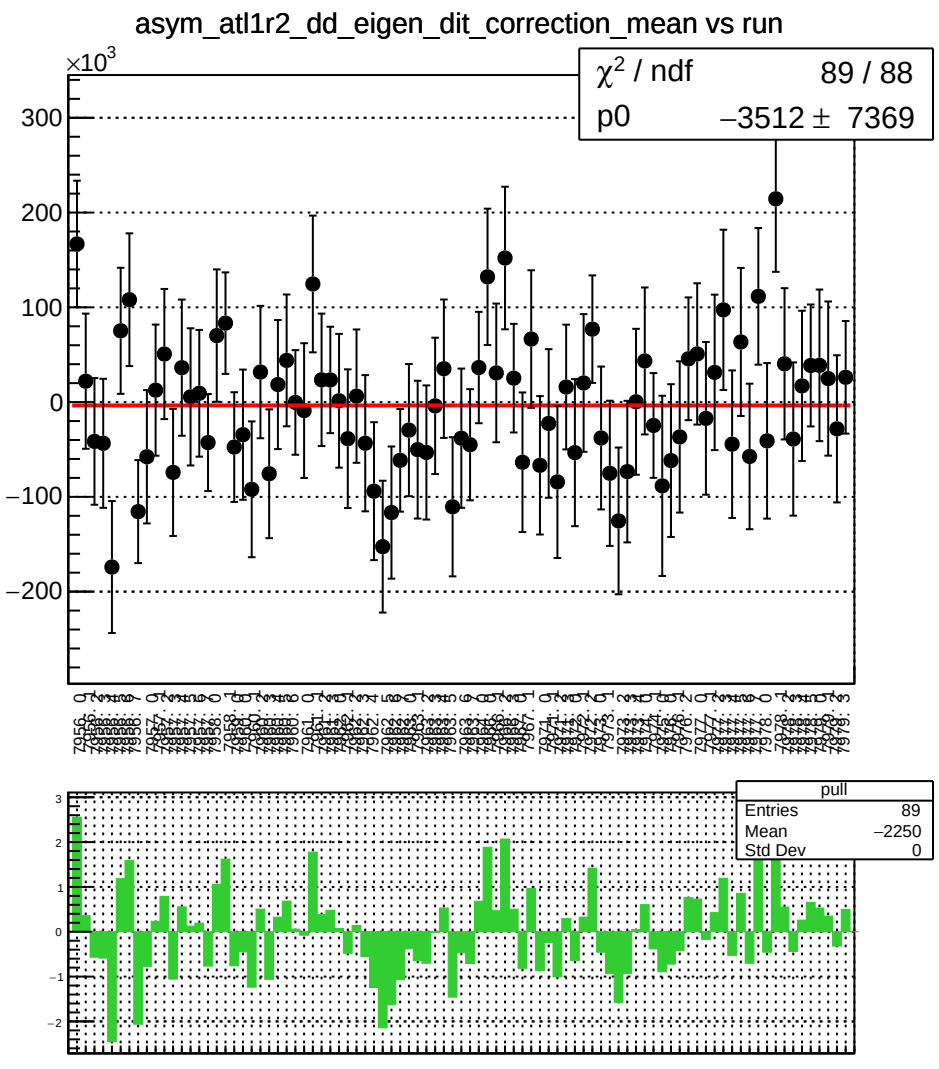

pull1D
Entries 89
Mean −0.00109
Std Dev 1
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

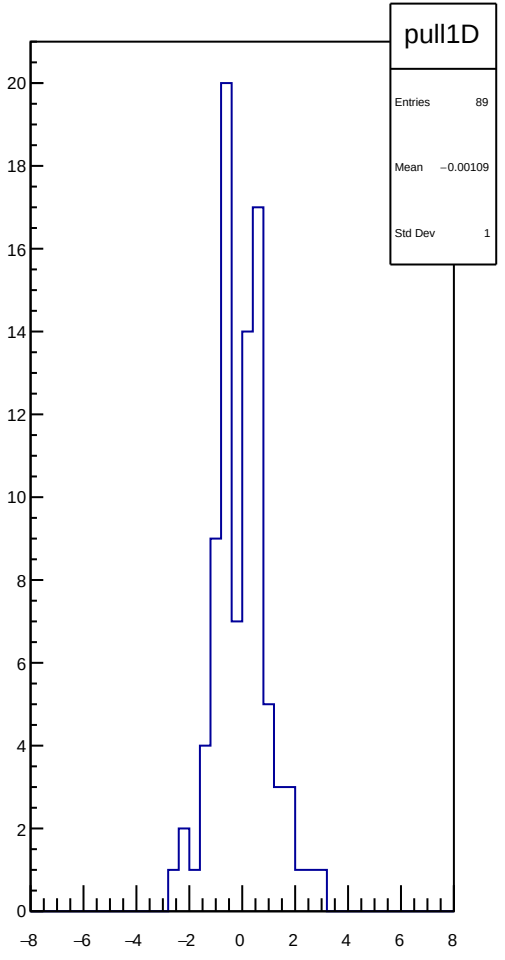

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 6295 / 88
p0 6961 ± 5.211
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

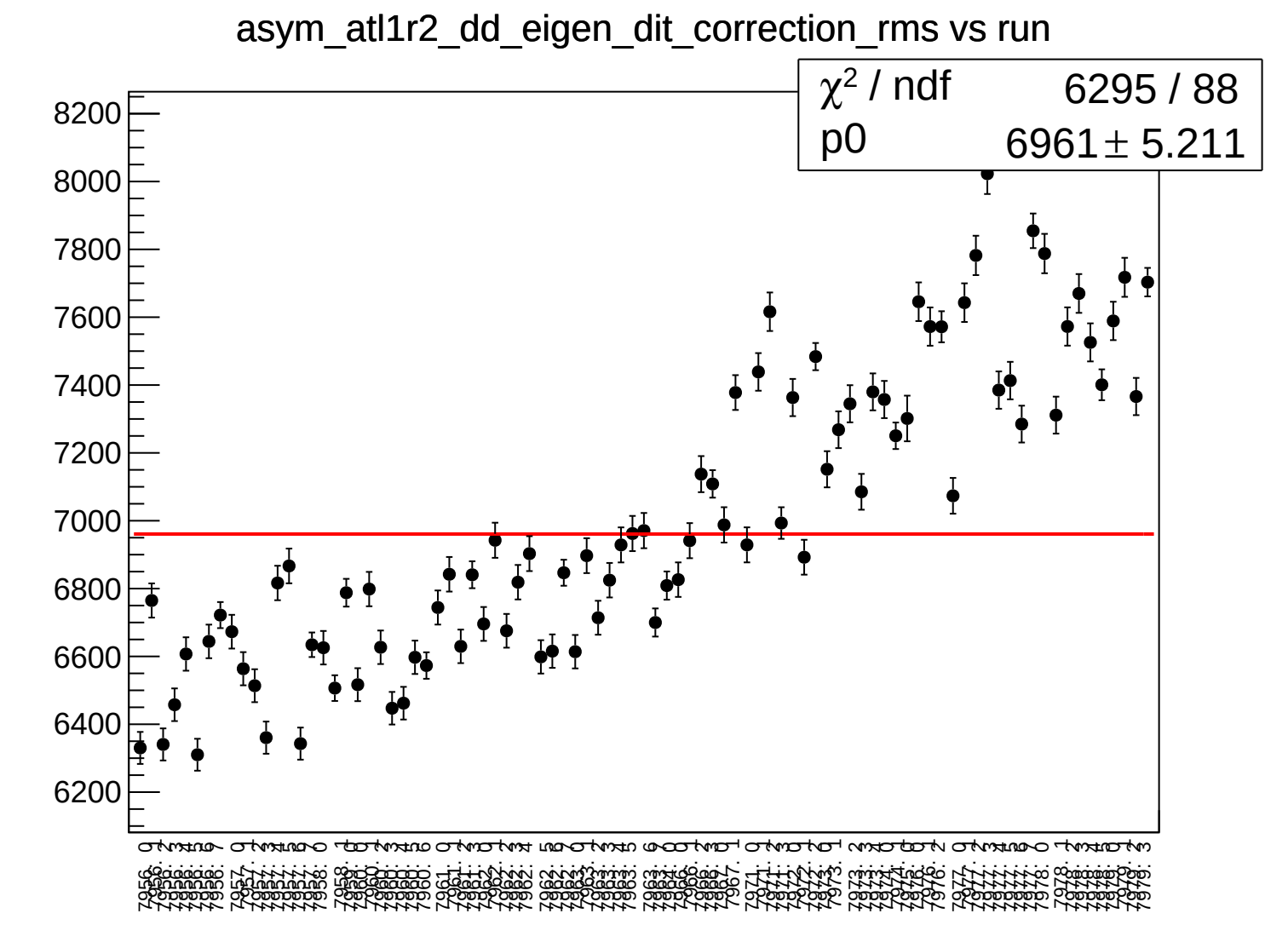

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 76.42 / 88
p0 949.1 ± 1957
pull
Entries 89
Mean −104.6
Std Dev 0

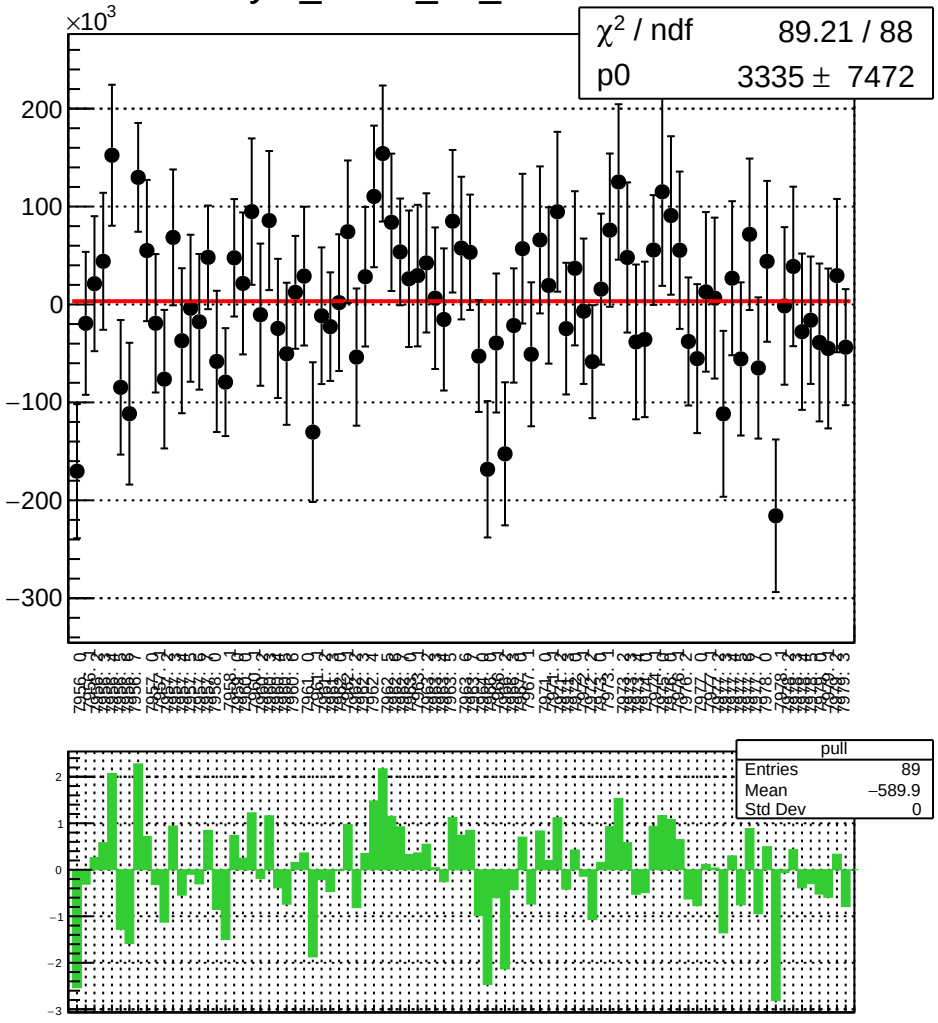

pull1D
Entries 89
Mean −0.02509
Std Dev 0.9263

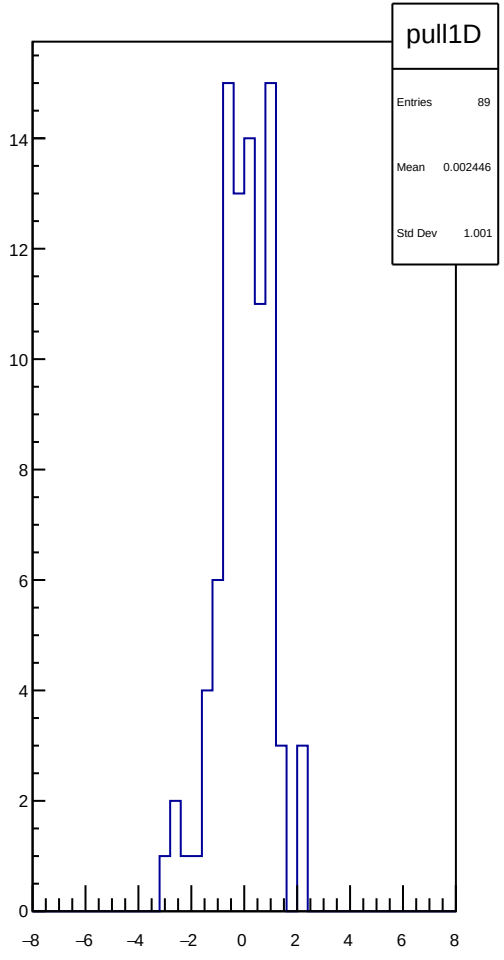

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1754 / 88
p0 1851 ± 1.384
2050
2000
1950
1900
1850
1800
1750
1700

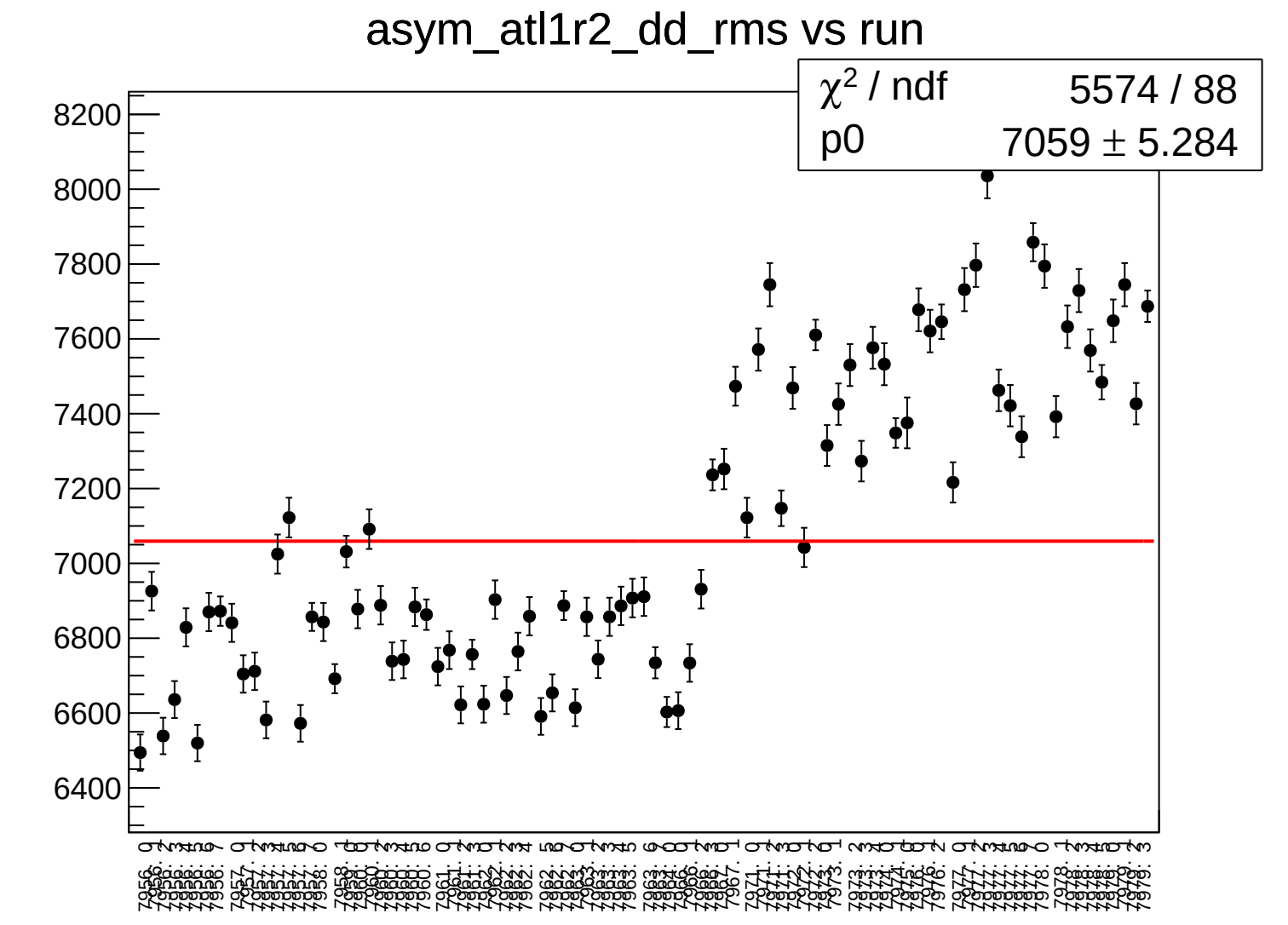

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89 / 88
p0 −3512 ± 7369
300
200
100
0
−100
−200
pull
Entries 89
Mean −2250
Std Dev 0
3
2
1
0
−1
−2

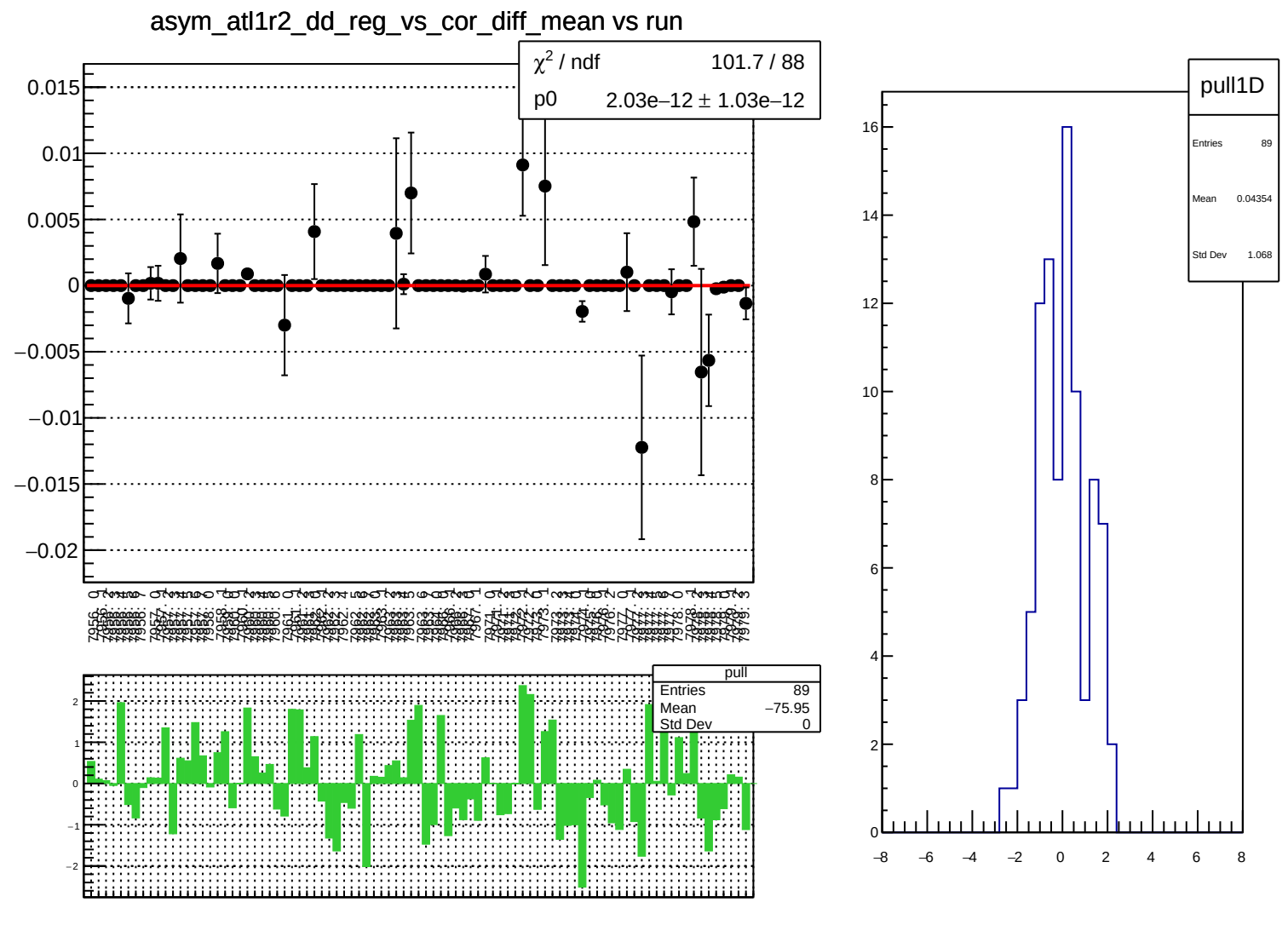

pull1D
Entries 89
Mean −0.00109
Std Dev 1
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

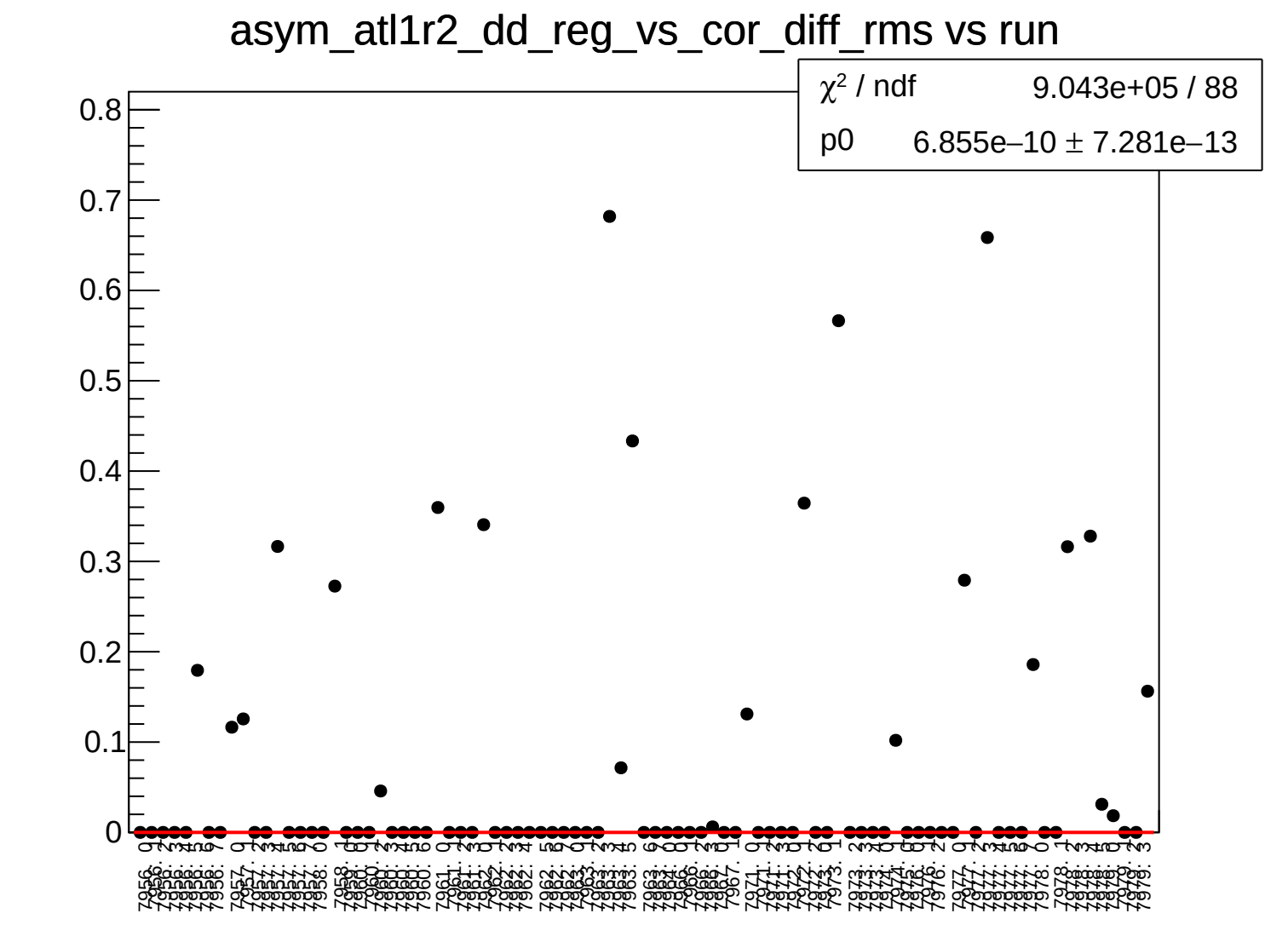

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6295 / 88
p0 6961 ± 5.211
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

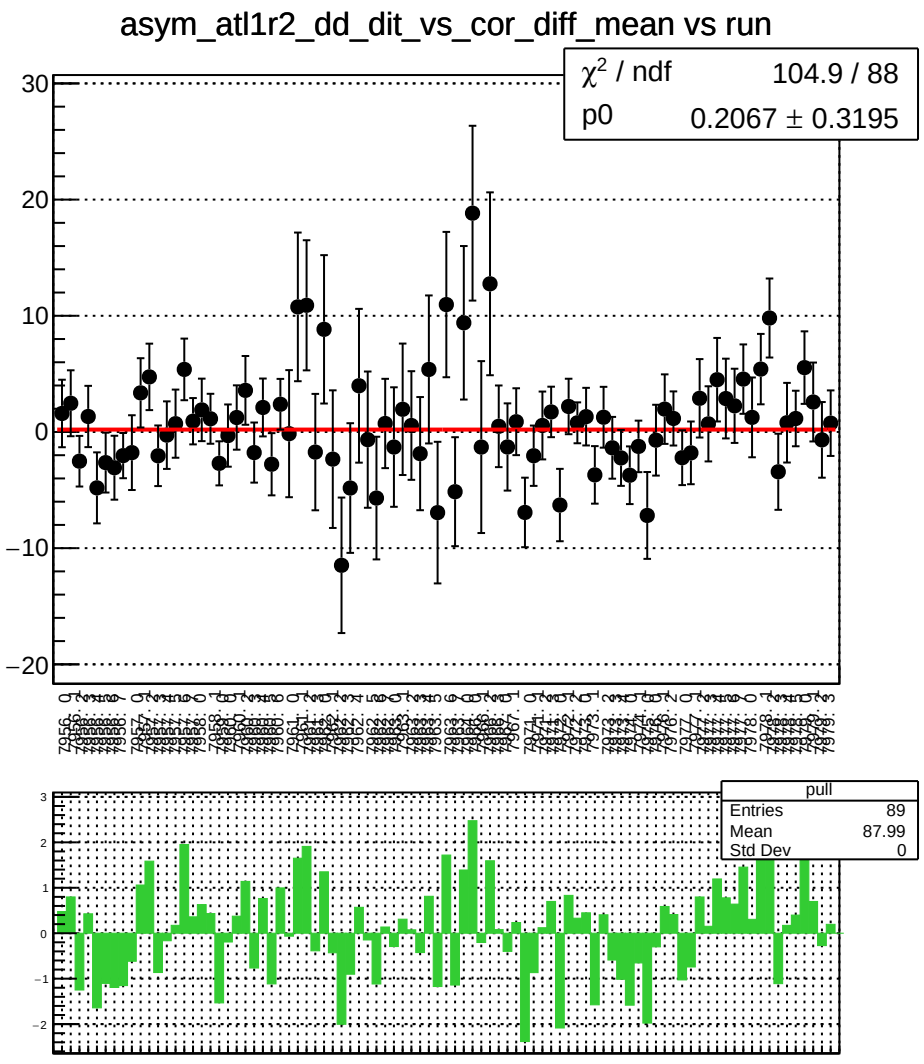

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 89.21 / 88
p0 3335 ± 7472
200
100
0
−100
−200
−300
pull
Entries 89
Mean −589.9
Std Dev 0
2
1
0
−1
−2
−3

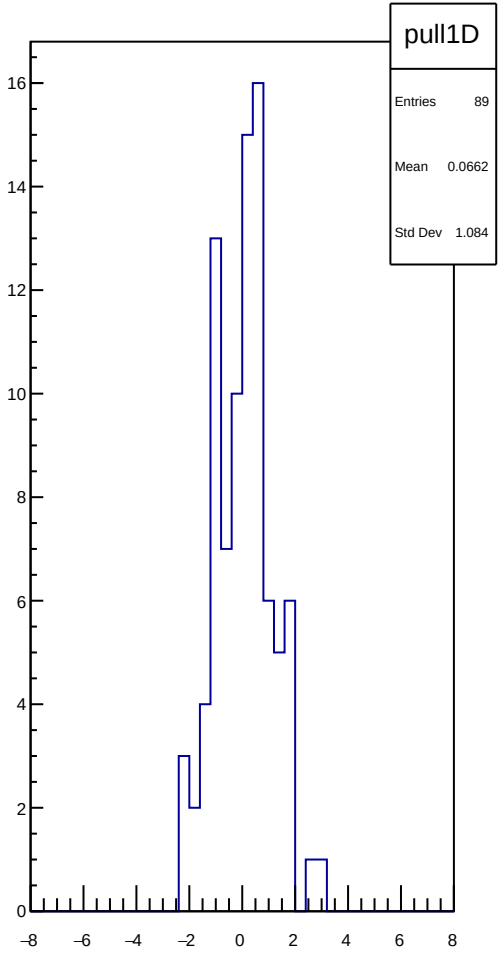

pull1D
Entries 89
Mean 0.002446
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

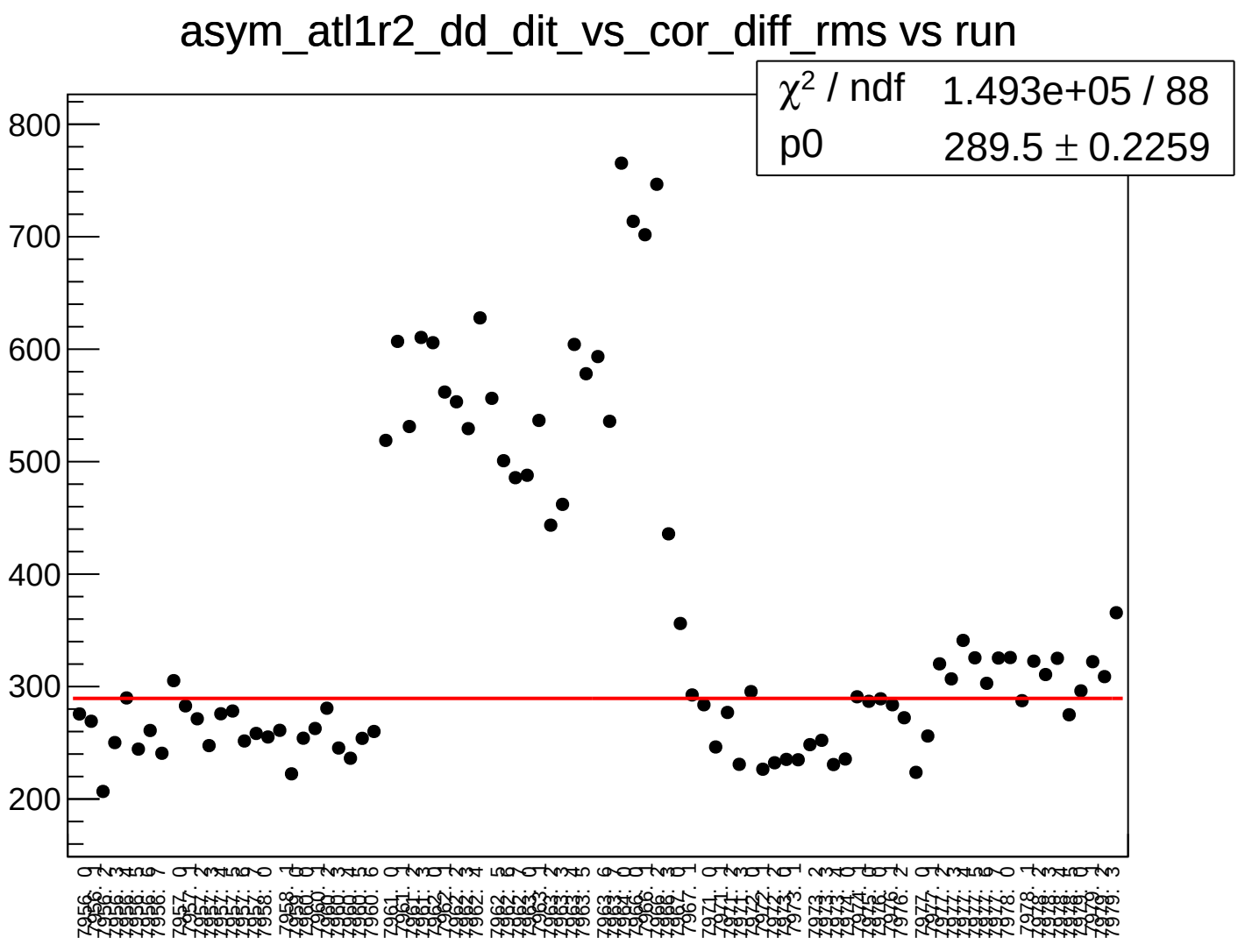

asym_atl1r2_dd_rms vs run
χ² / ndf 5574 / 88
p0 7059 ± 5.284
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

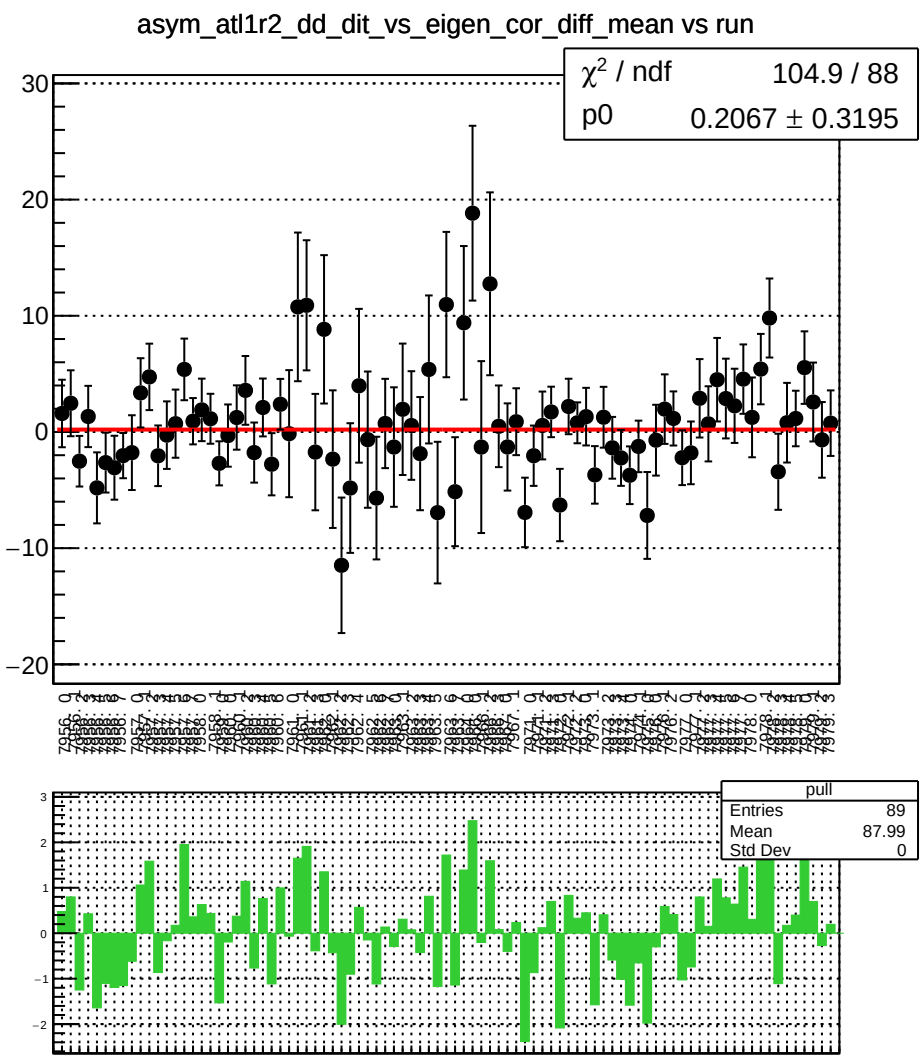

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 88
p0 2.03e−12 ± 1.03e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean −75.95
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.04354
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

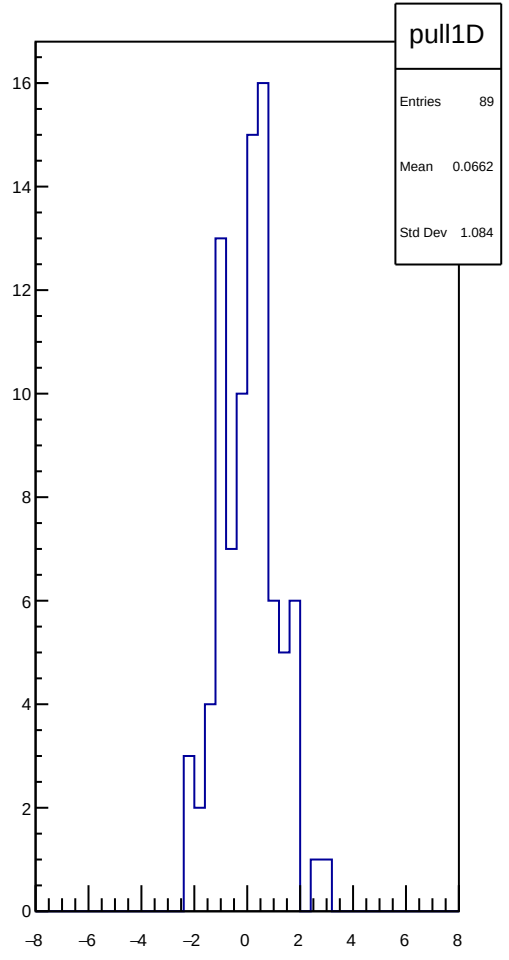

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.043e+05 / 88
p0 6.855e−10 ± 7.281e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

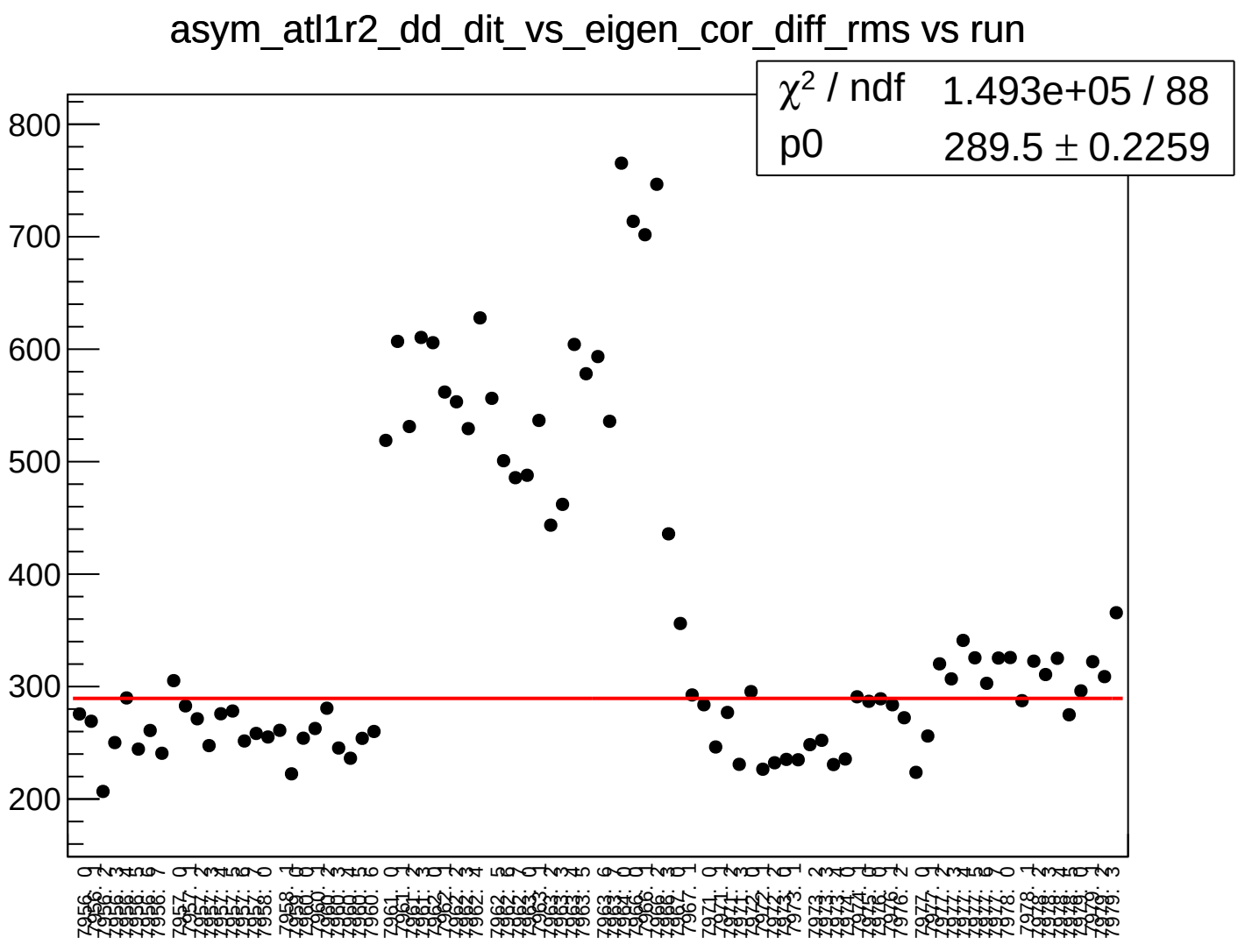

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 88
p0 0.2067 ± 0.3195
pull
Entries 89
Mean 87.99
Std Dev 0

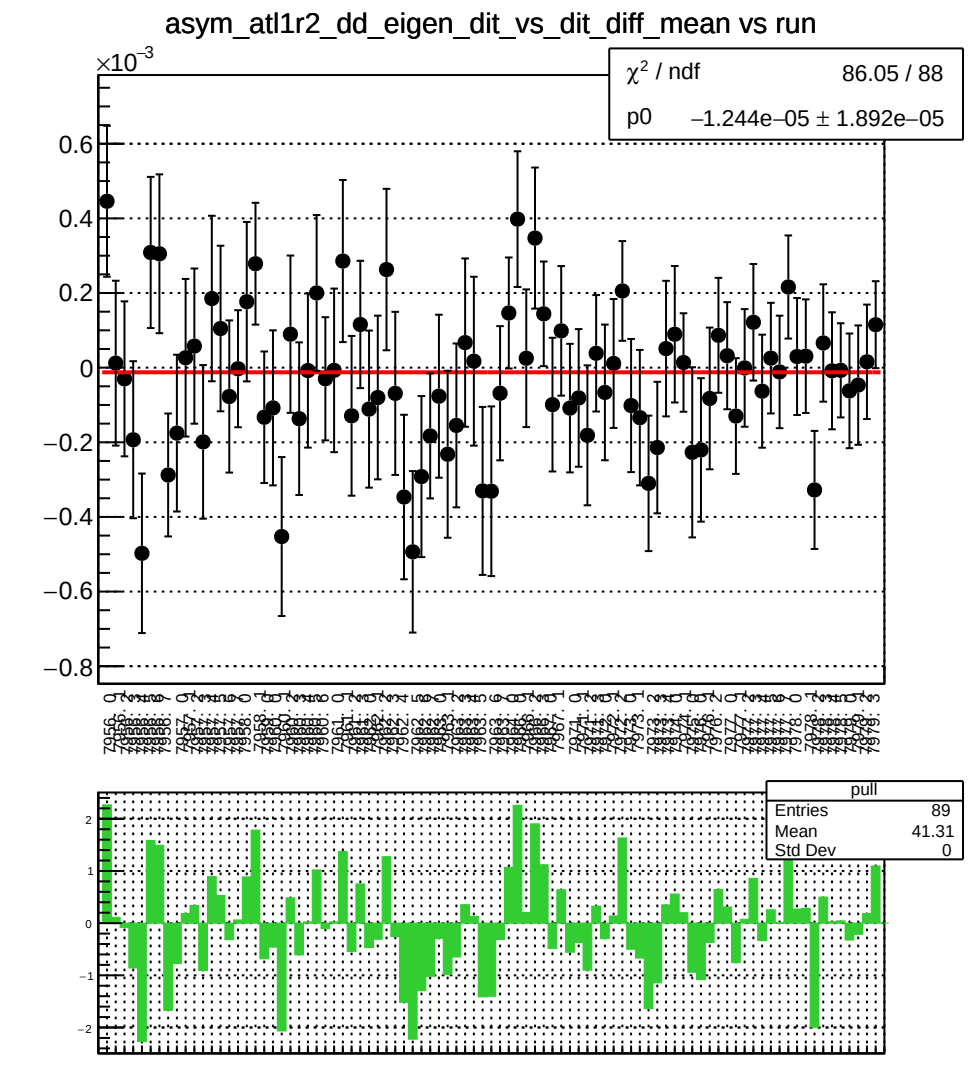

pull1D
Entries 89
Mean 0.0662
Std Dev 1.084

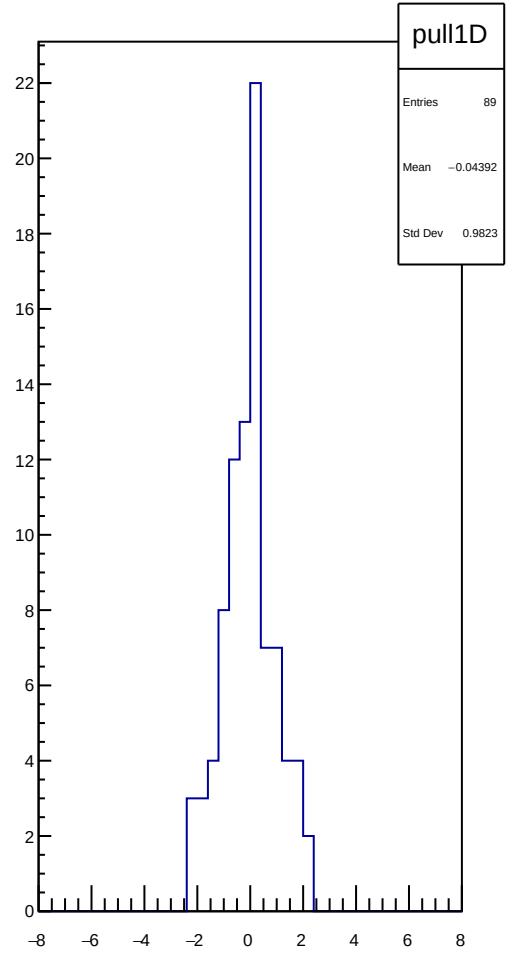

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.493e+05 / 88
p0 289.5 ± 0.2259
800
700
600
500
400
300
200

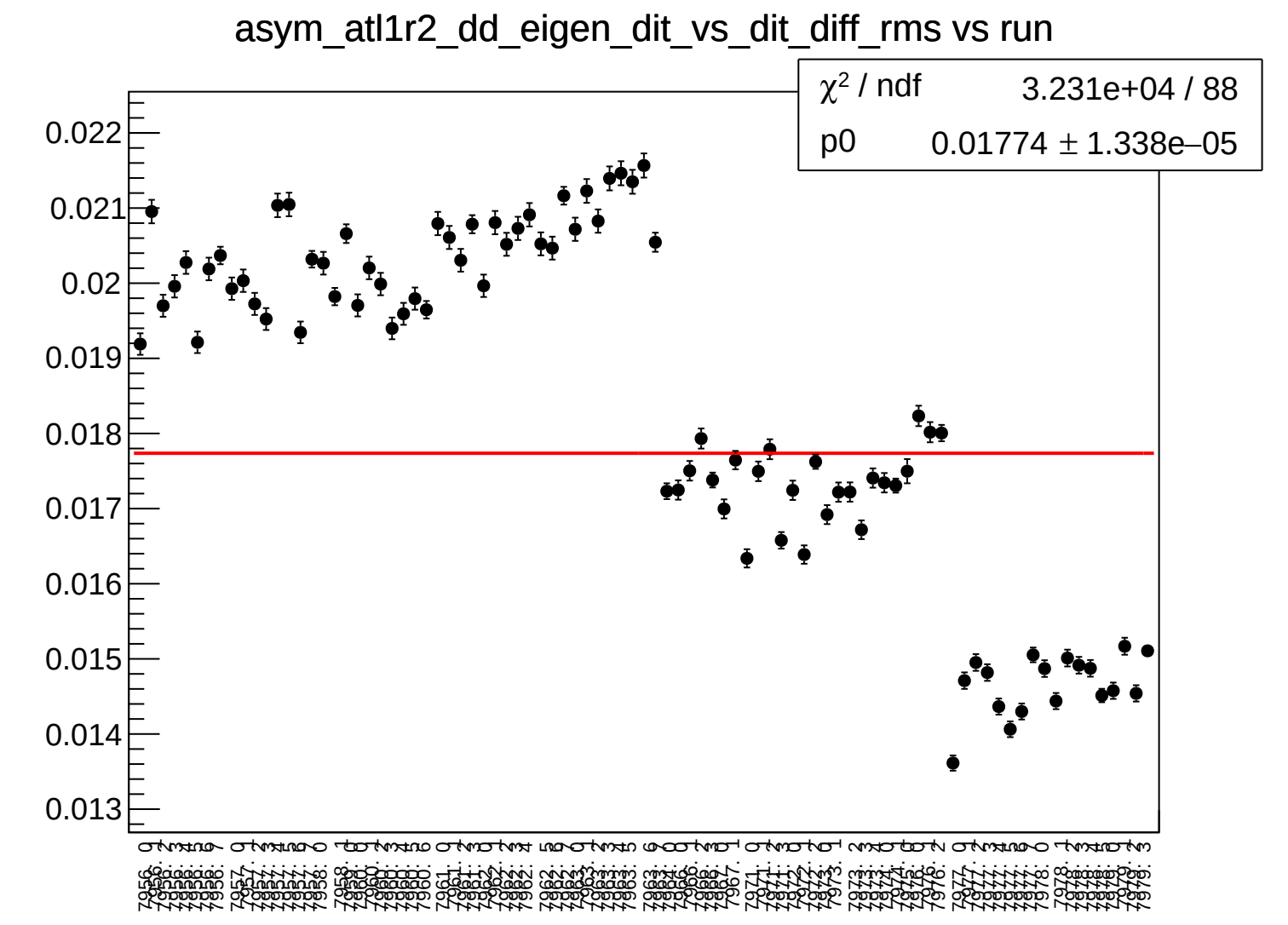

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 88
p0 0.2067 ± 0.3195
pull
Entries 89
Mean 87.99
Std Dev 0

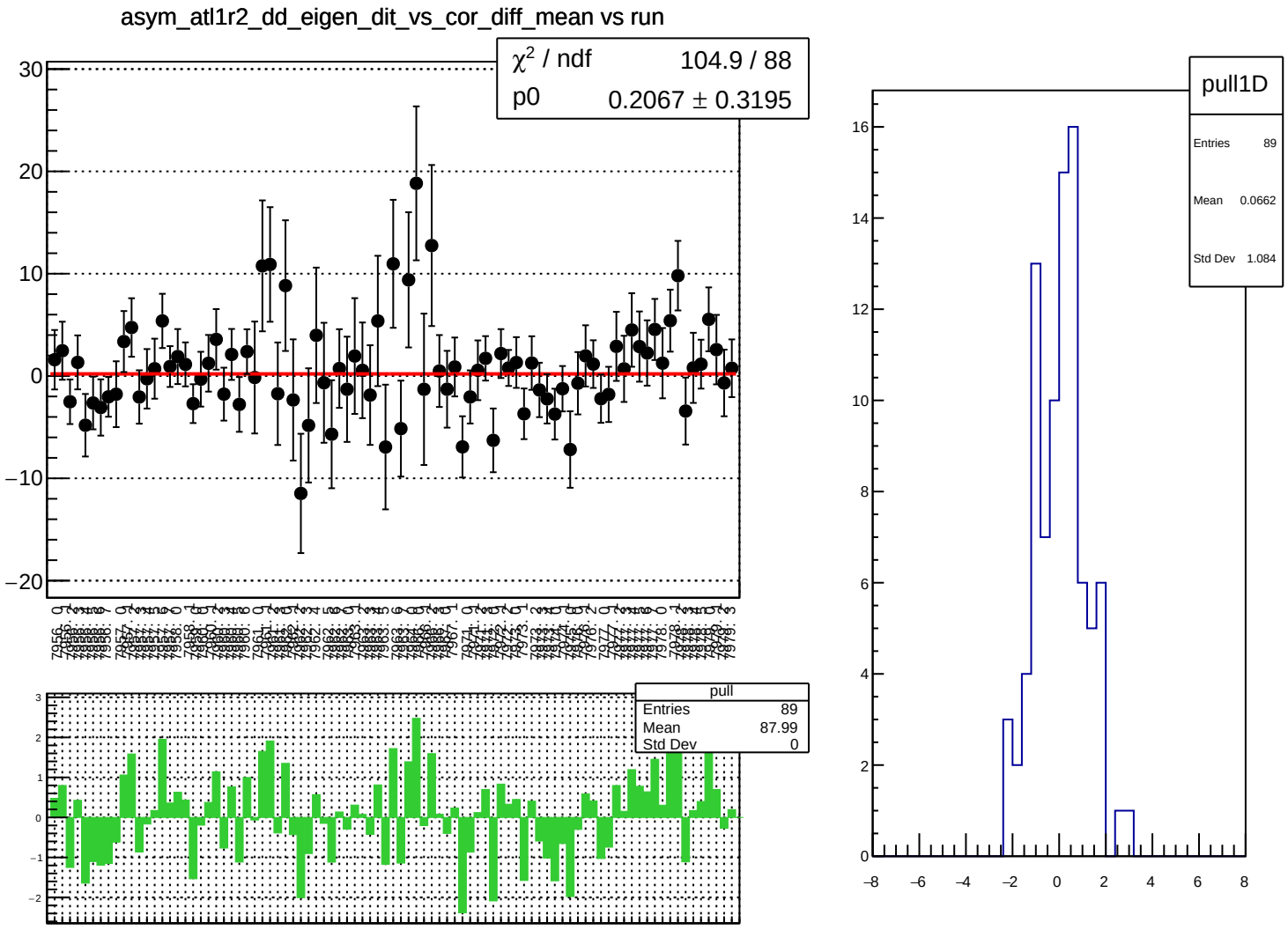

pull1D
Entries 89
Mean 0.0662
Std Dev 1.084

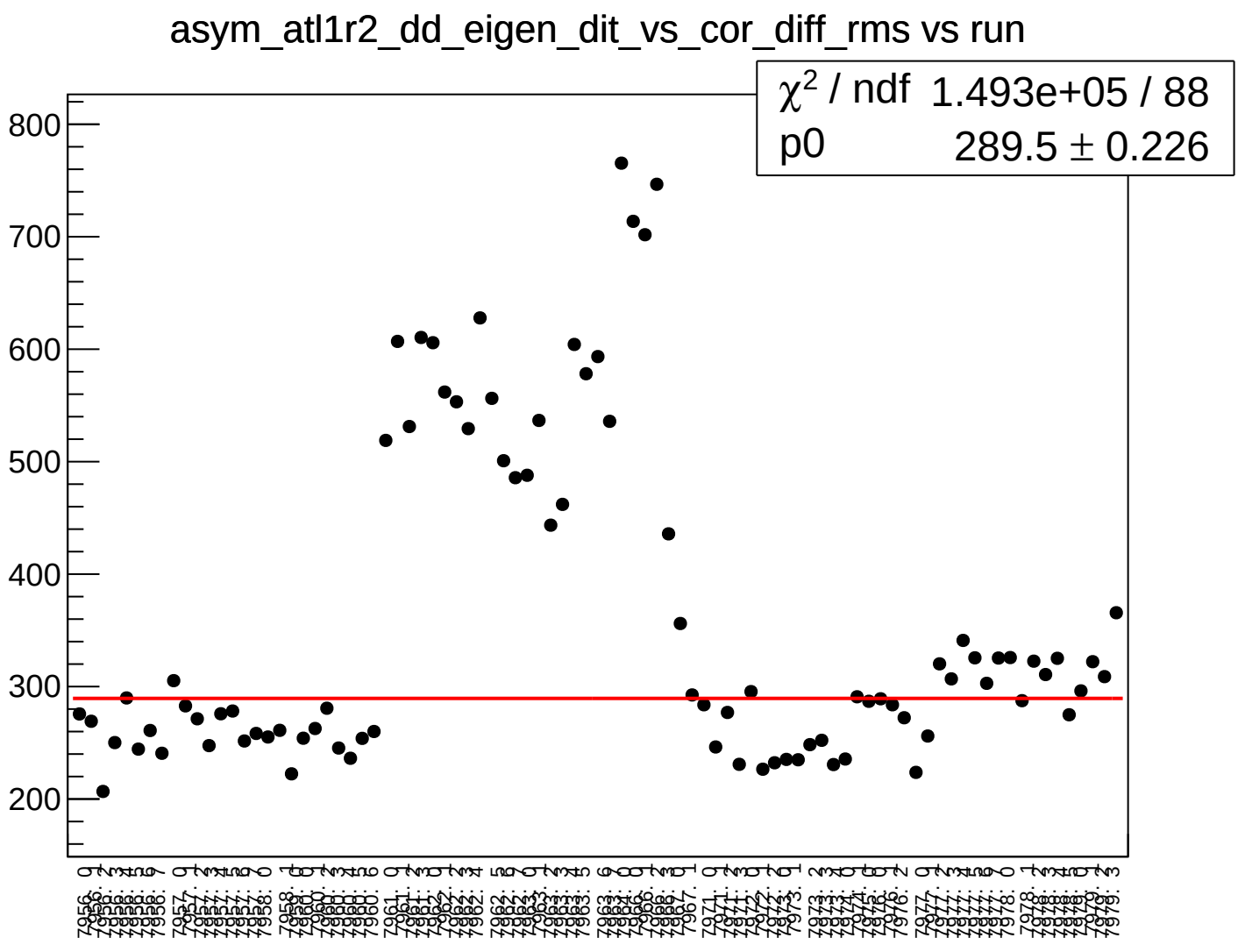

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.493e+05 / 88
p0 289.5 ± 0.2259
800
700
600
500
400
300
200

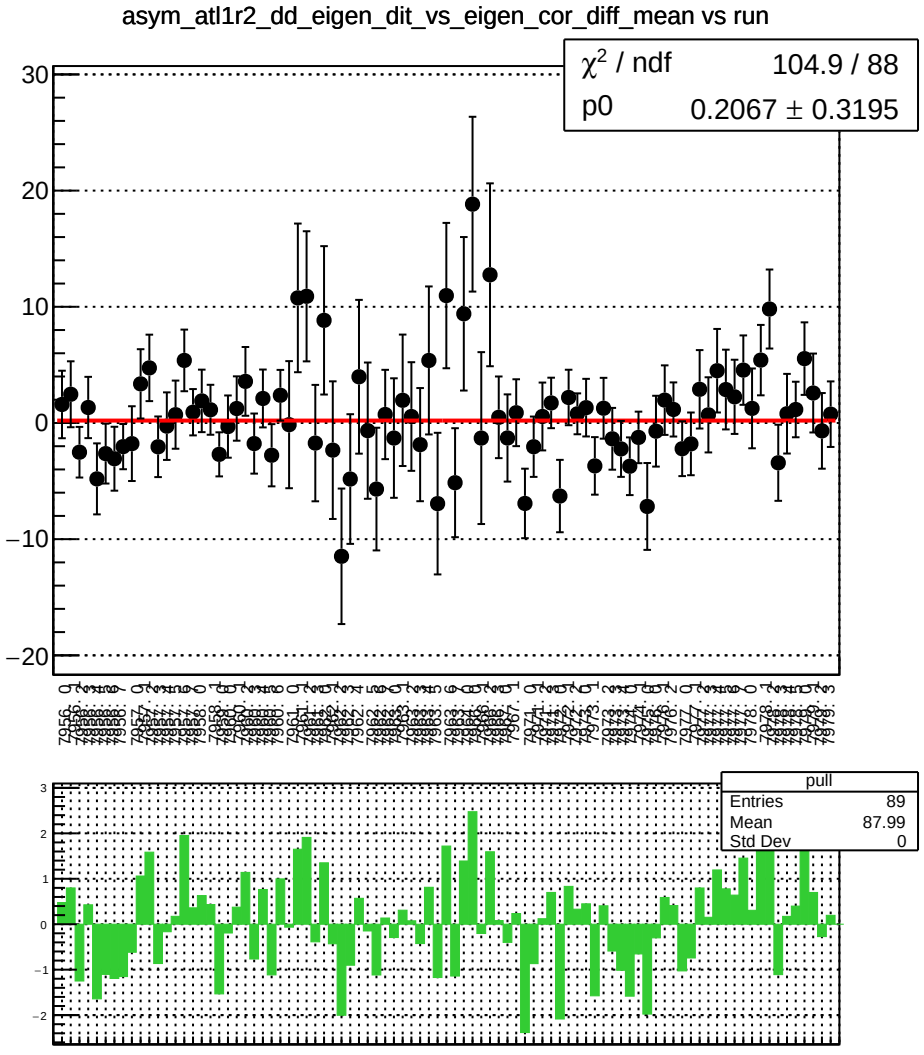

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.05 / 88
p0 −1.244e−05 ± 1.892e−05
pull
Entries 89
Mean 41.31
Std Dev 0

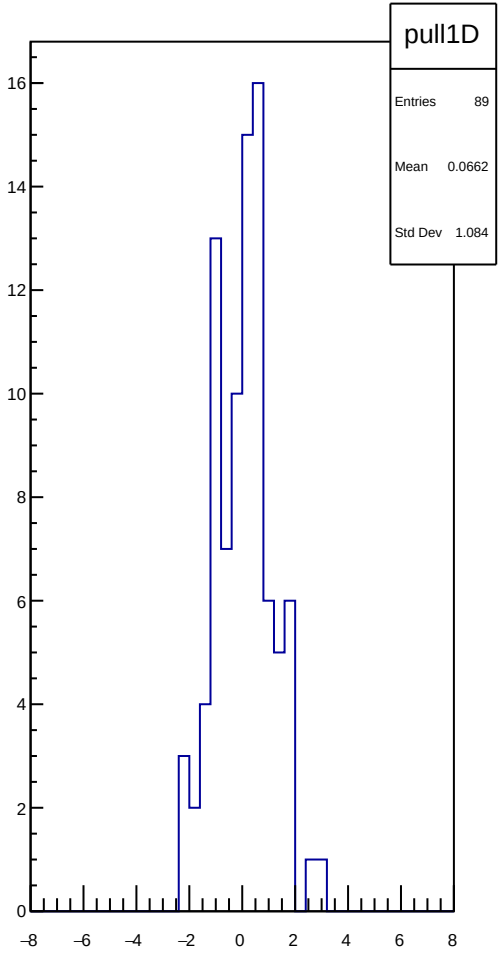

pull1D
Entries 89
Mean −0.04392
Std Dev 0.9823

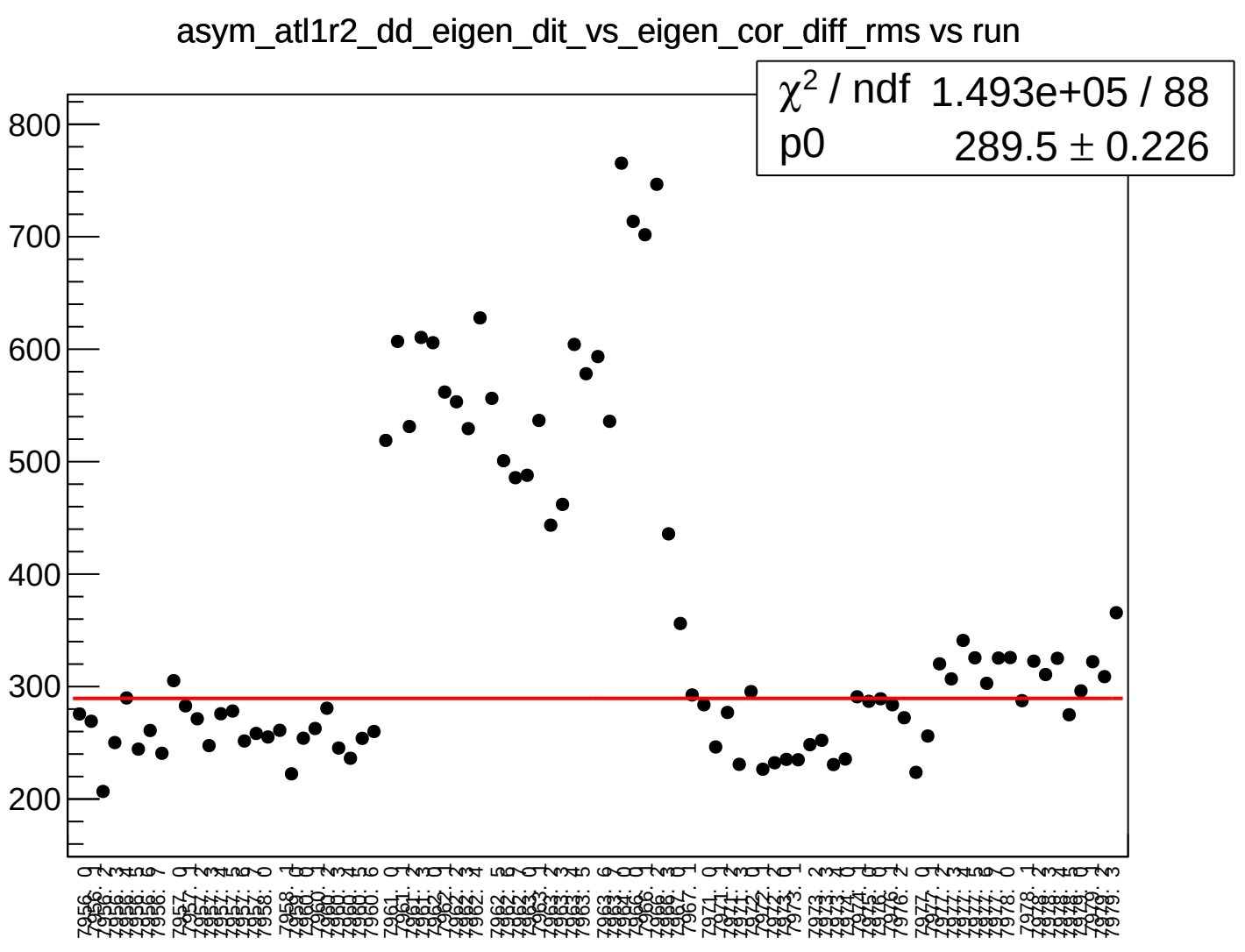

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.231e+04 / 88
p0 0.01774 ± 1.338e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013

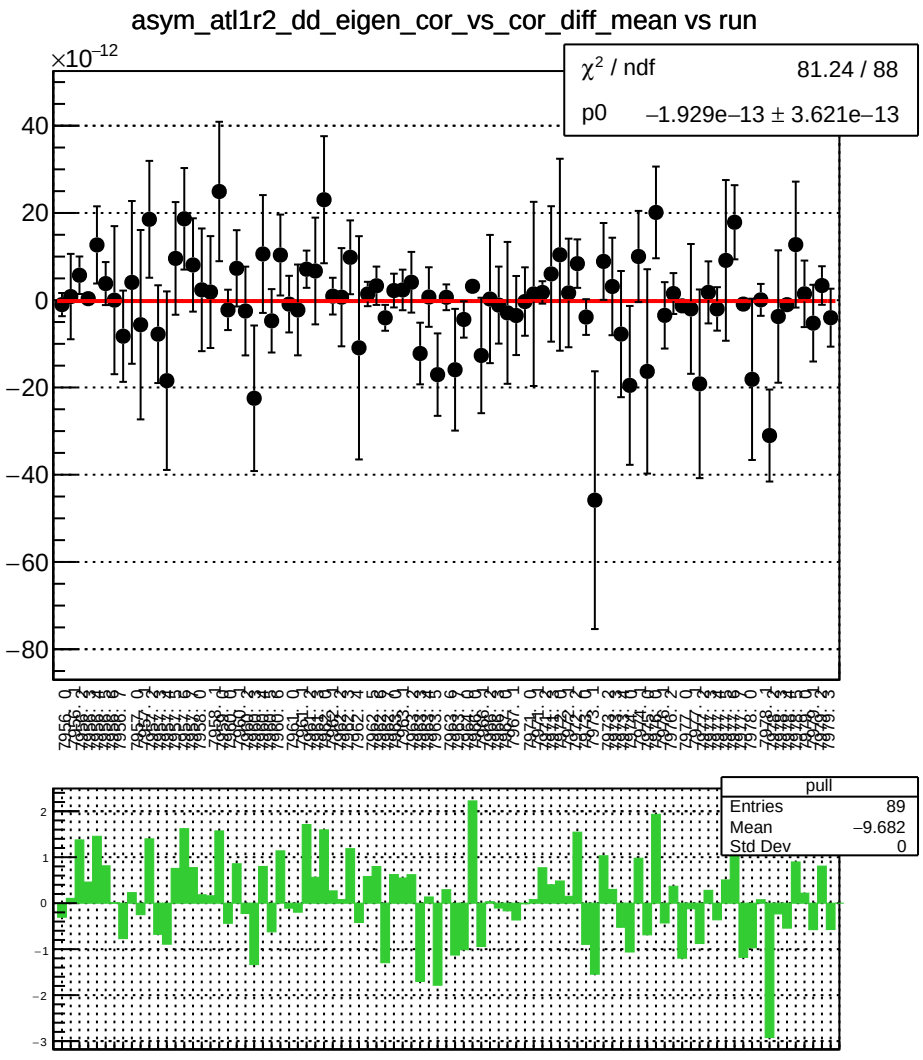

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 88
p0 0.2067 ± 0.3195
pull
Entries 89
Mean 87.99
Std Dev 0
pull1D
Entries 89
Mean 0.0662
Std Dev 1.084

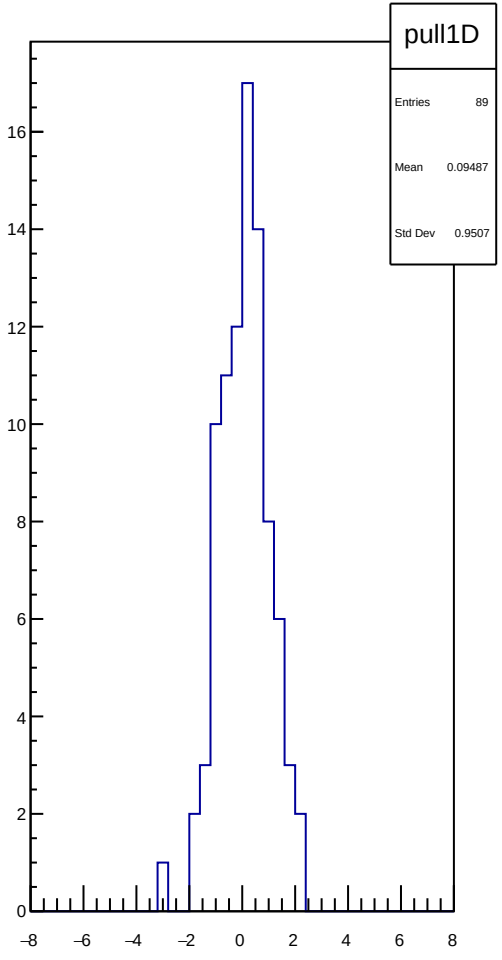

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.493e+05 / 88
p0 289.5 ± 0.226
800
700
600
500
400
300
200

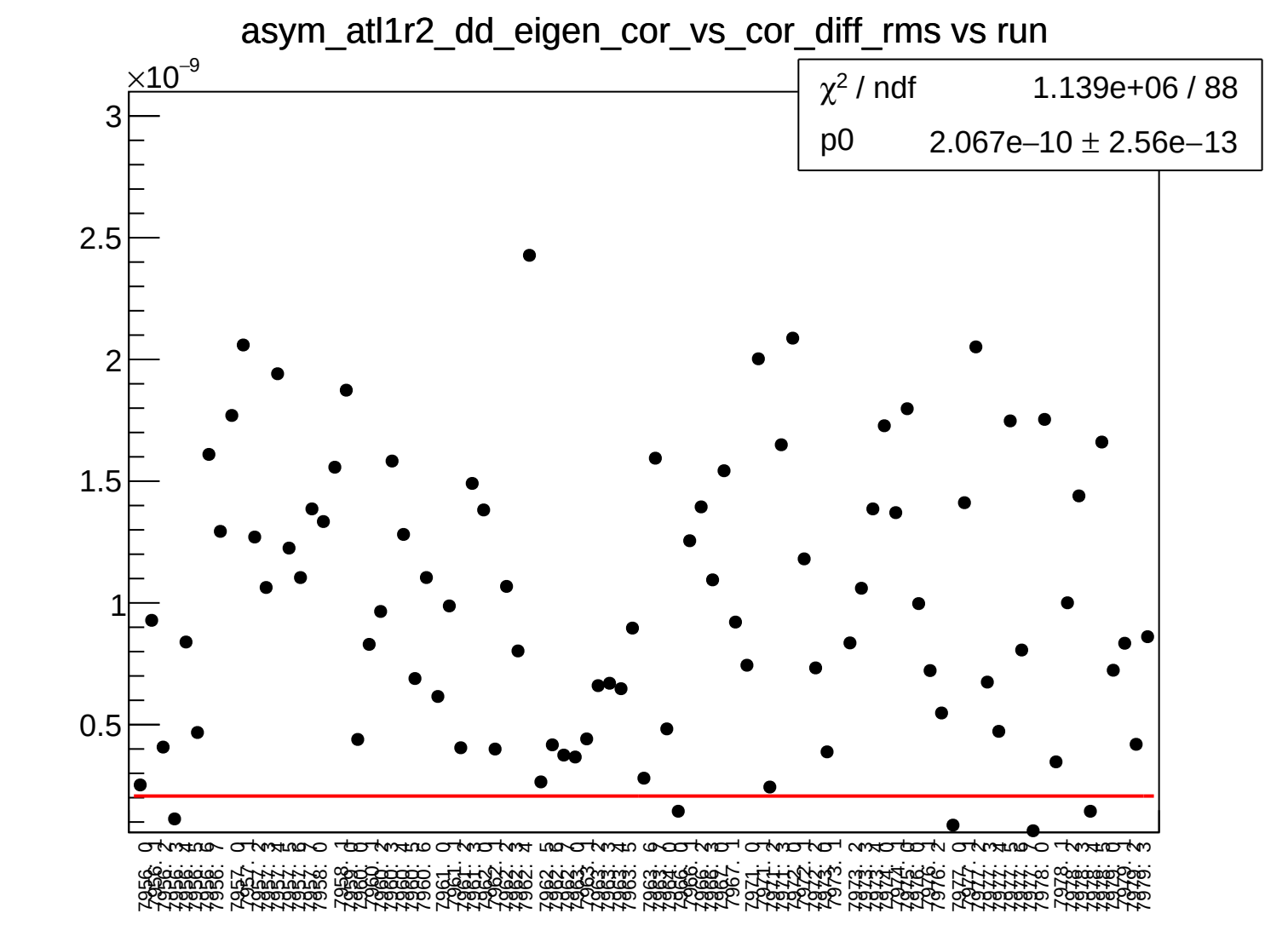

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 88
p0 0.2067 ± 0.3195
pull
Entries 89
Mean 87.99
Std Dev 0

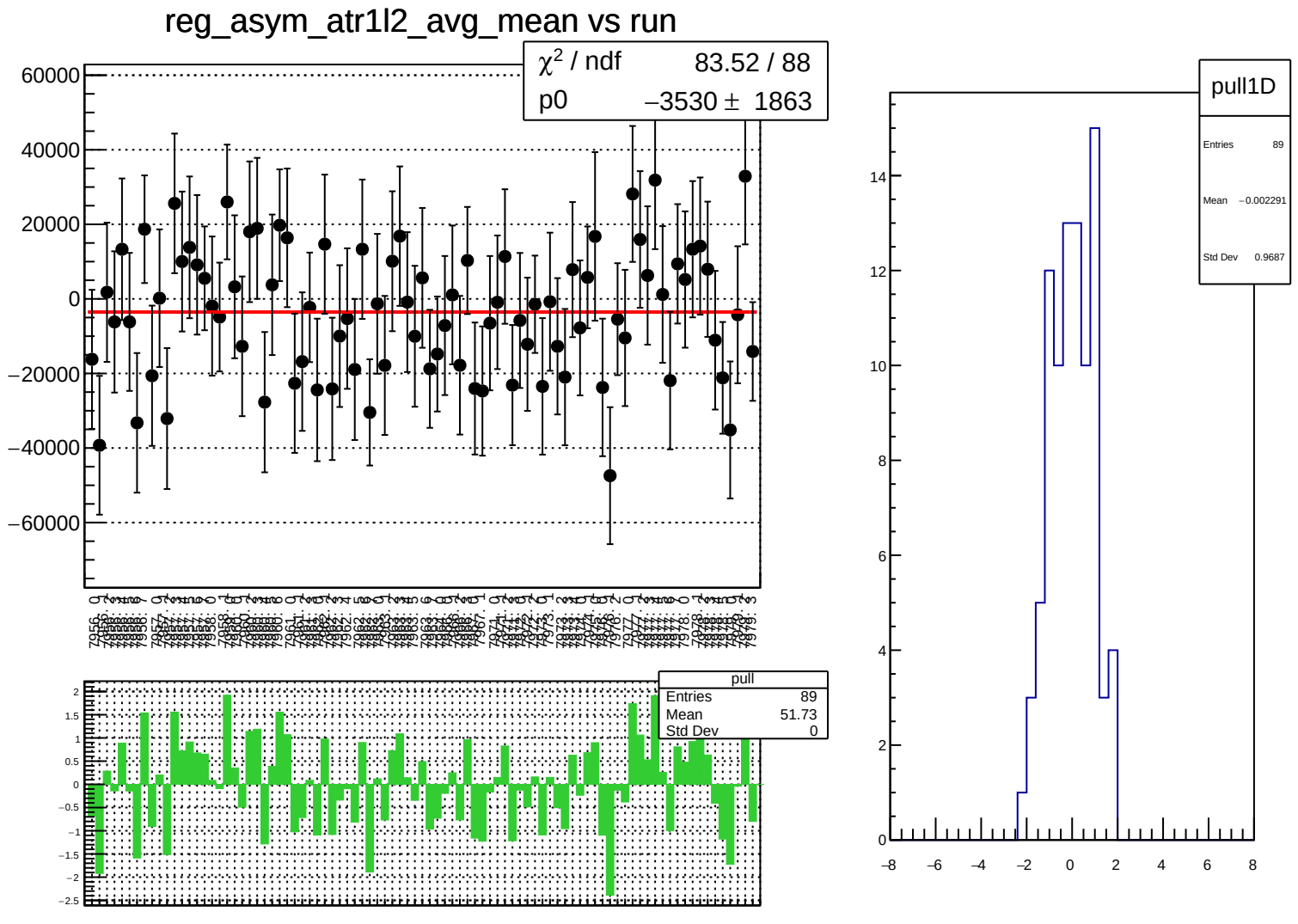

pull1D
Entries 89
Mean 0.0662
Std Dev 1.084

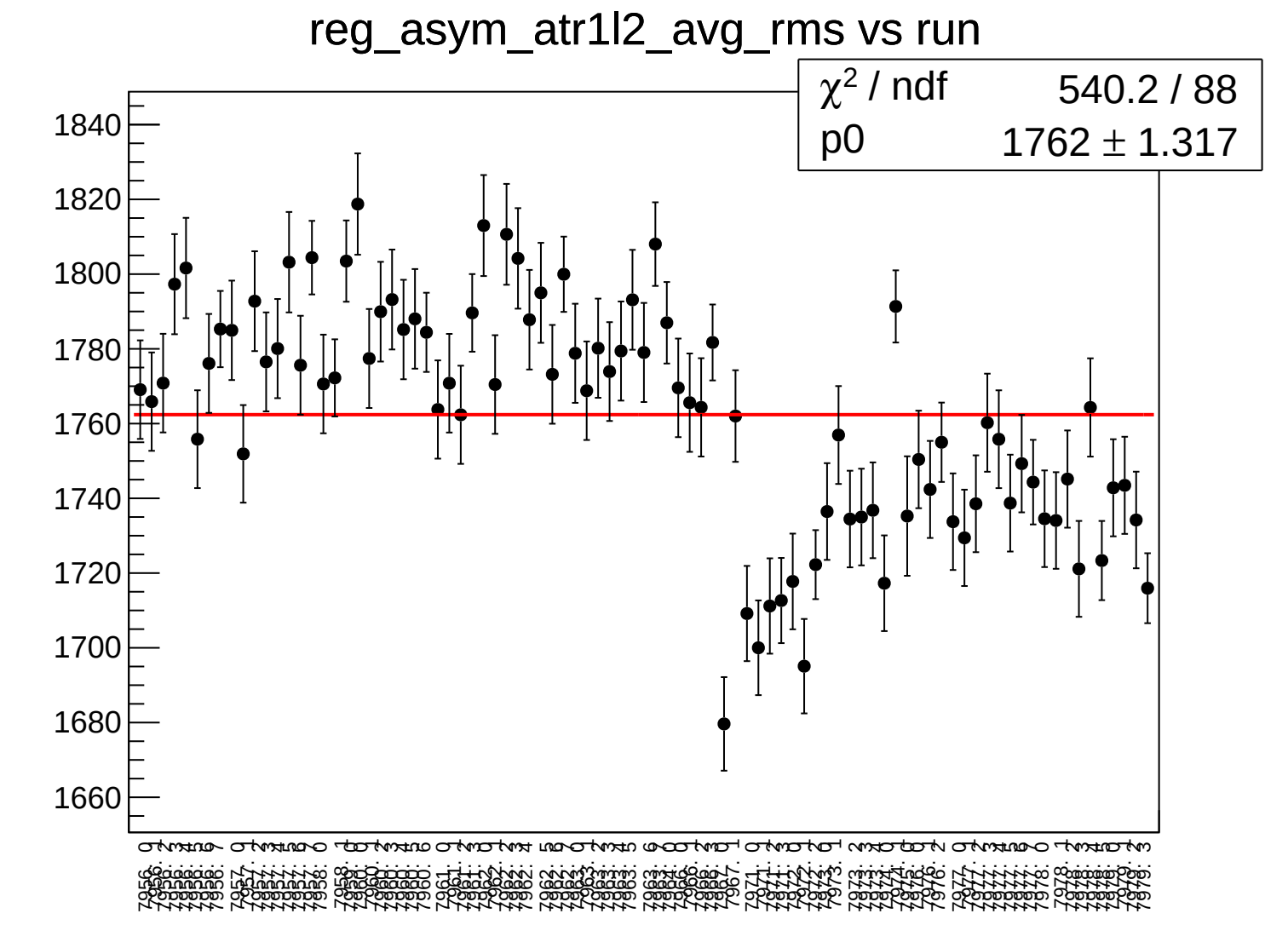

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.493e+05 / 88
p0 289.5 ± 0.226
800
700
600
500
400
300
200

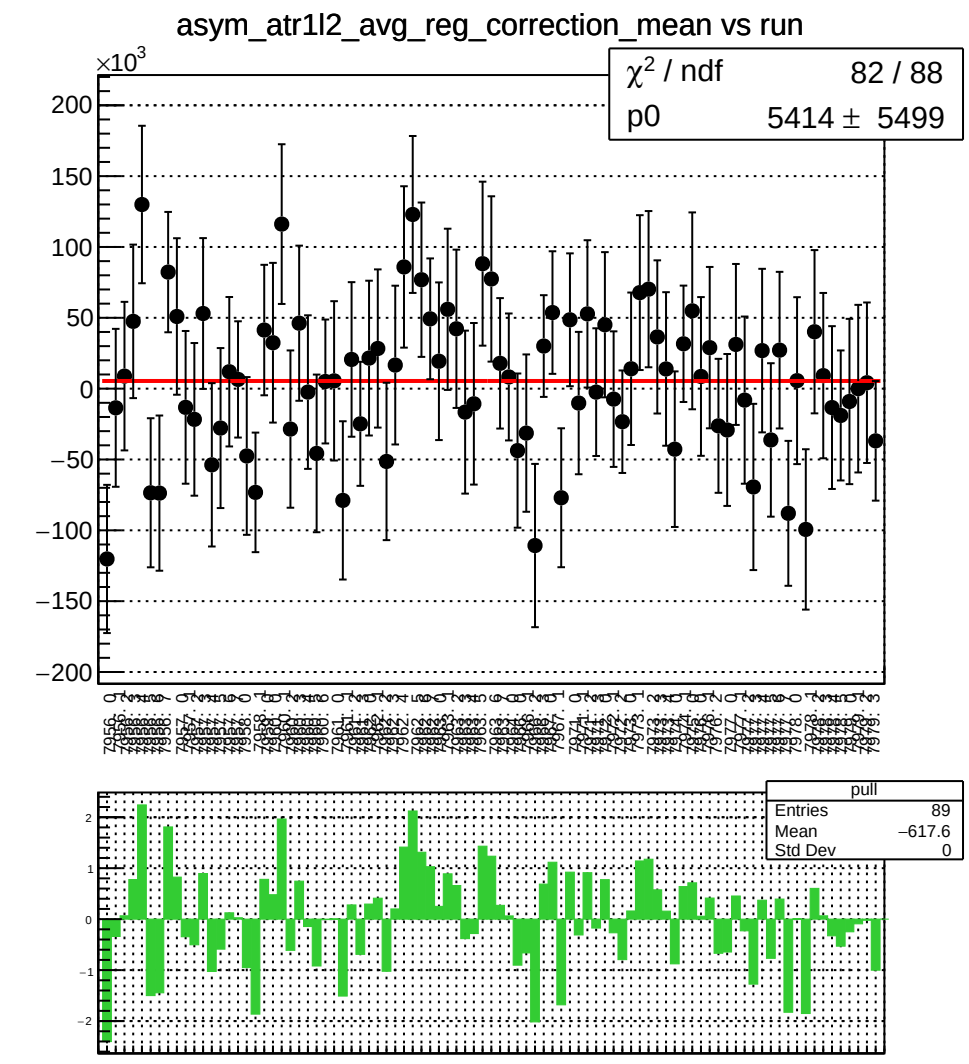

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.24 / 88
p0 −1.929e−13 ± 3.621e−13
pull
Entries 89
Mean −9.682
Std Dev 0

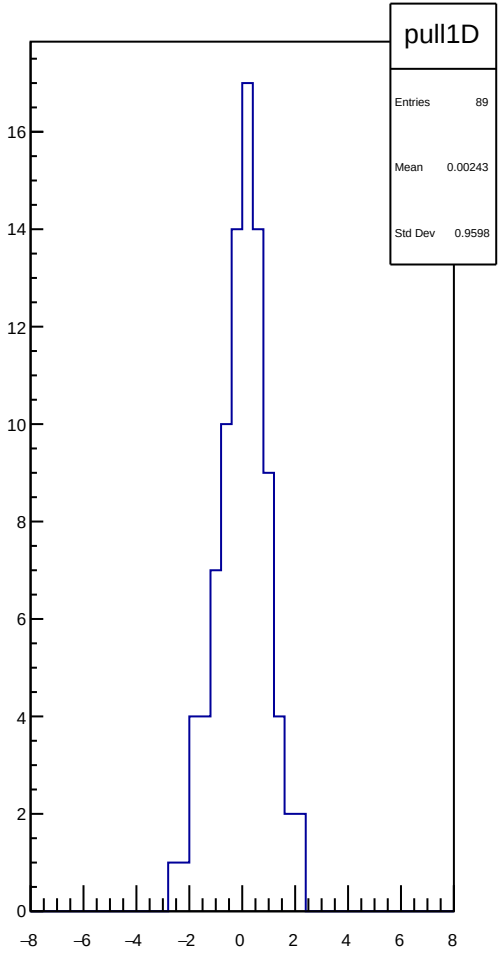

pull1D
Entries 89
Mean 0.09487
Std Dev 0.9507

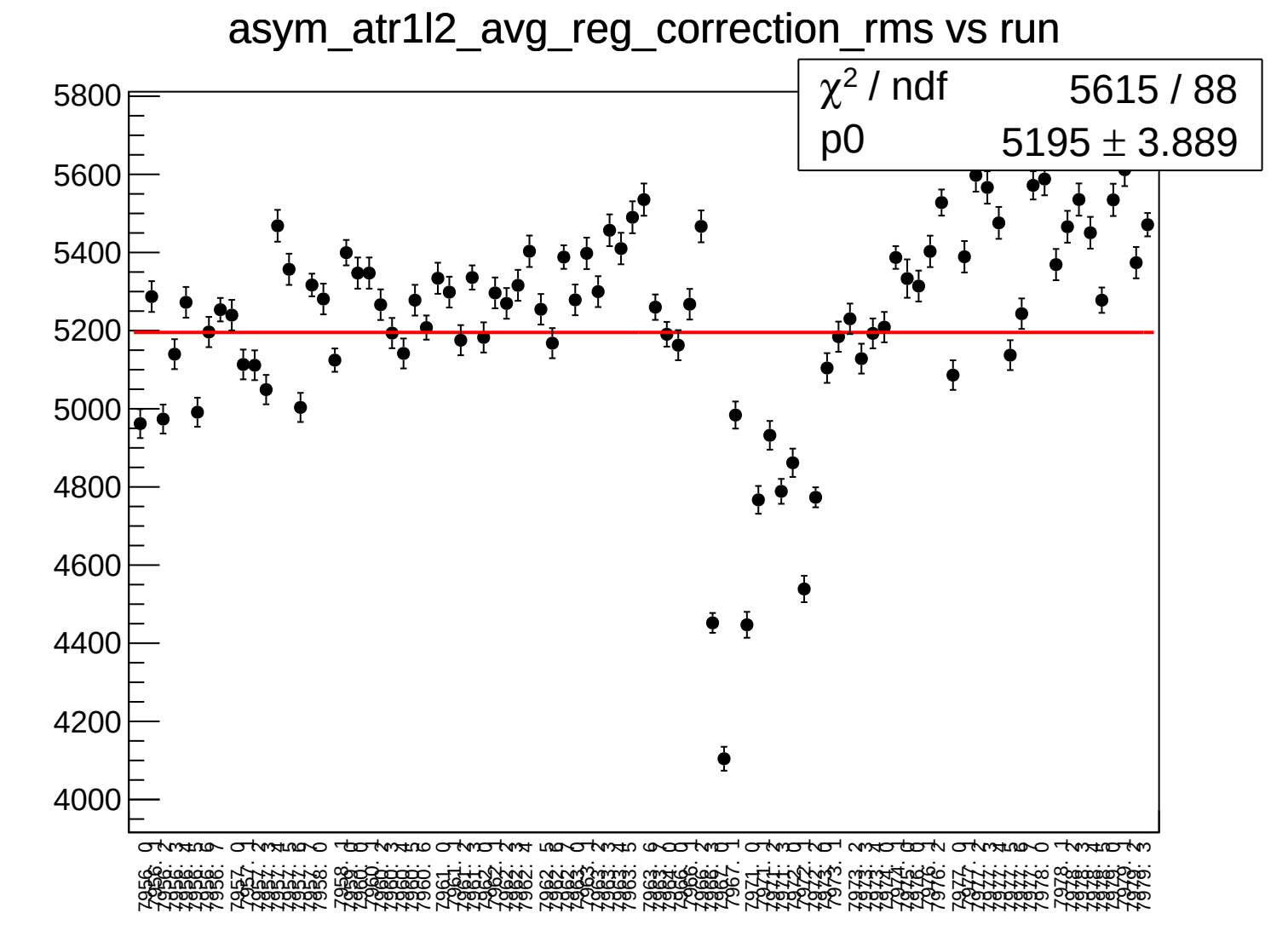

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.139e+06 / 88
p0 2.067e−10 ± 2.56e−13
3
2.5
2
1.5
1
0.5

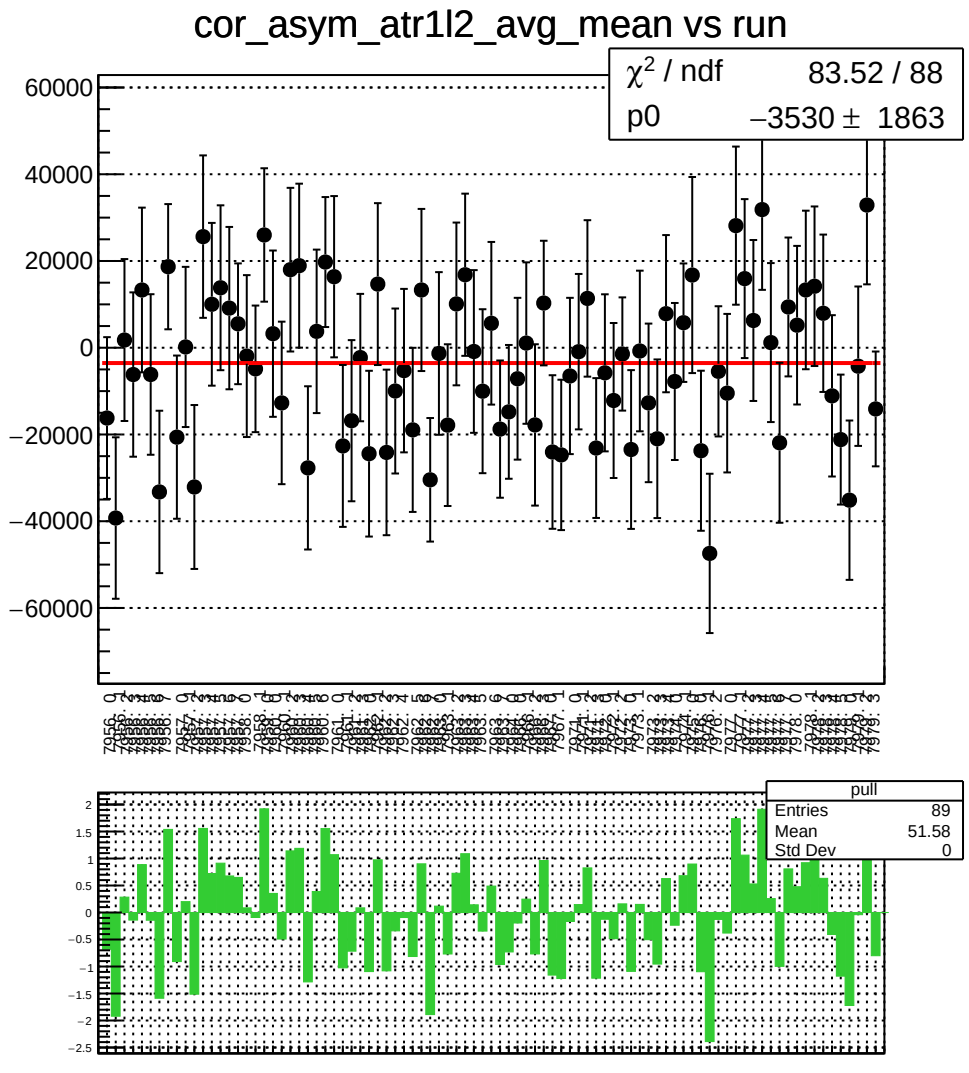

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 83.52 / 88
p0 −3530 ± 1863
pull
Entries 89
Mean 51.73
Std Dev 0
pull1D
Entries 89
Mean −0.002291
Std Dev 0.9687

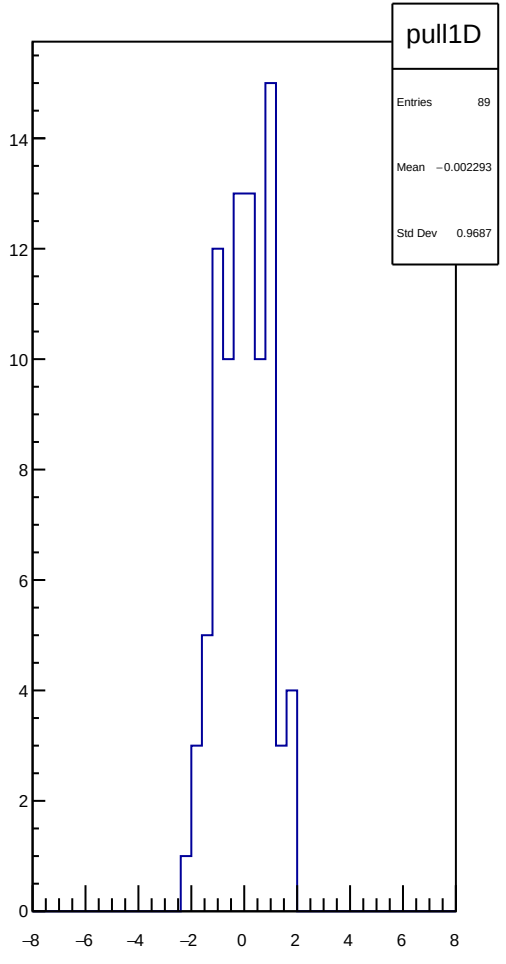

reg_asym_atr1l2_avg_rms vs run
$\chi^2$ / ndf 540.2 / 88
p0 1762 ± 1.317
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

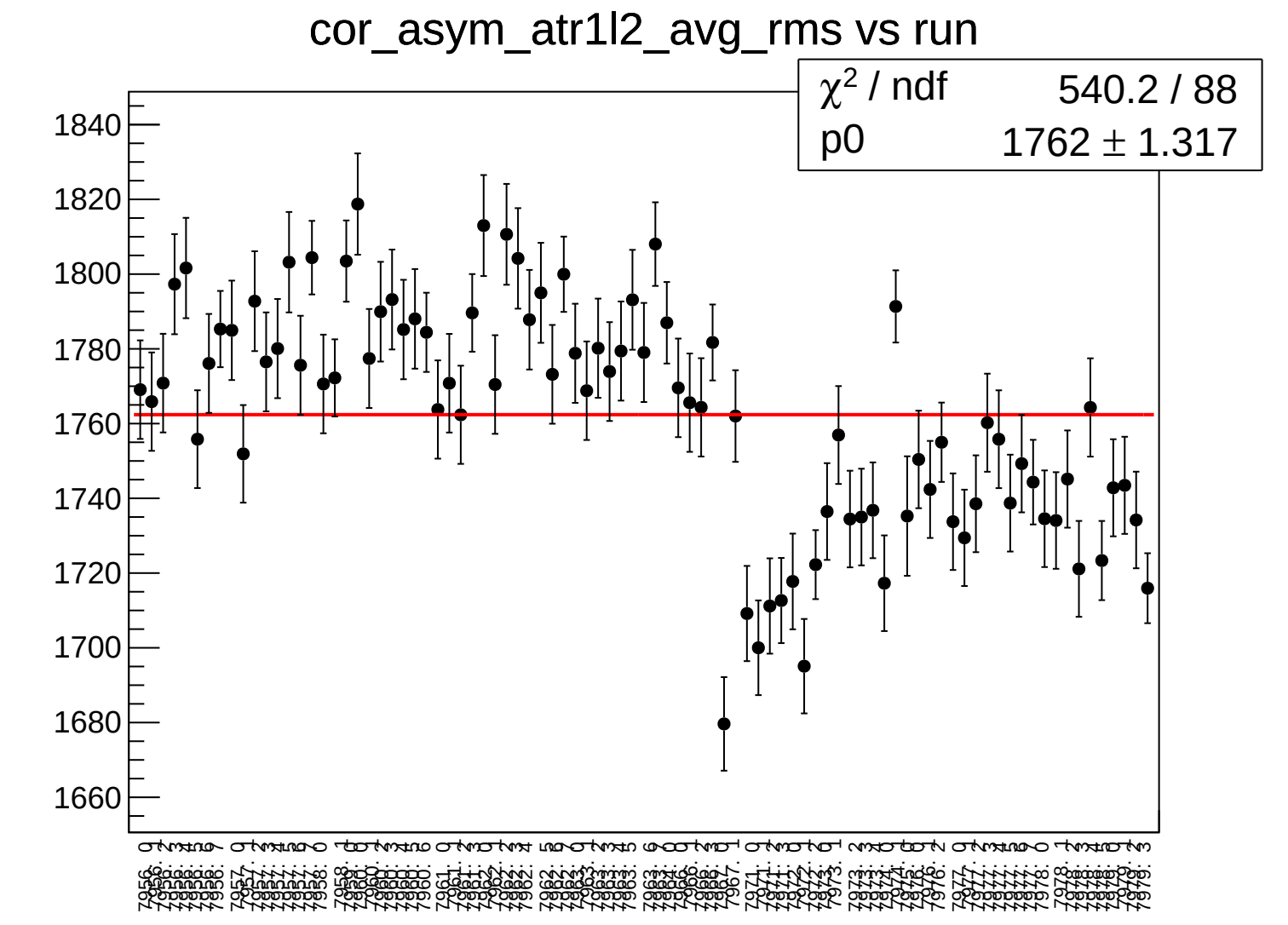

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82 / 88
p0 5414 ± 5499
pull
Entries 89
Mean −617.6
Std Dev 0

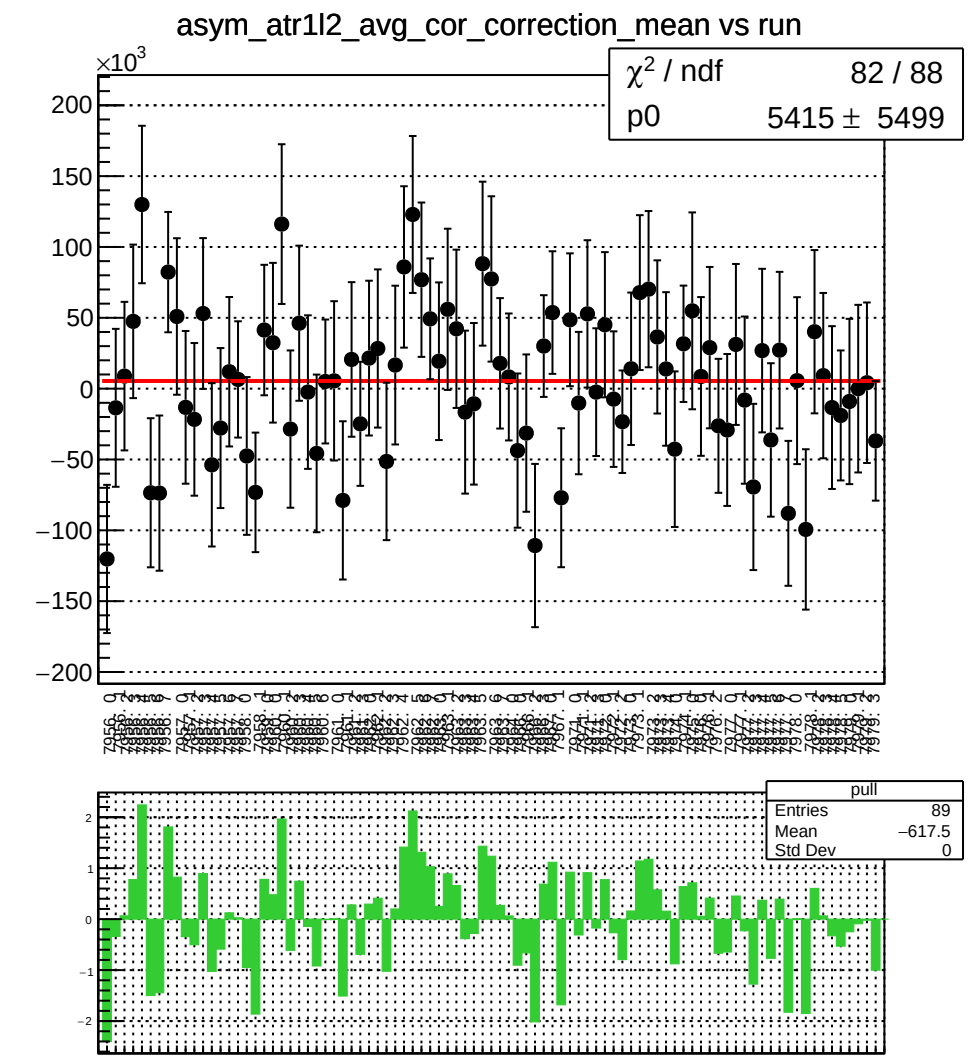

pull1D
Entries 89
Mean 0.00243
Std Dev 0.9598

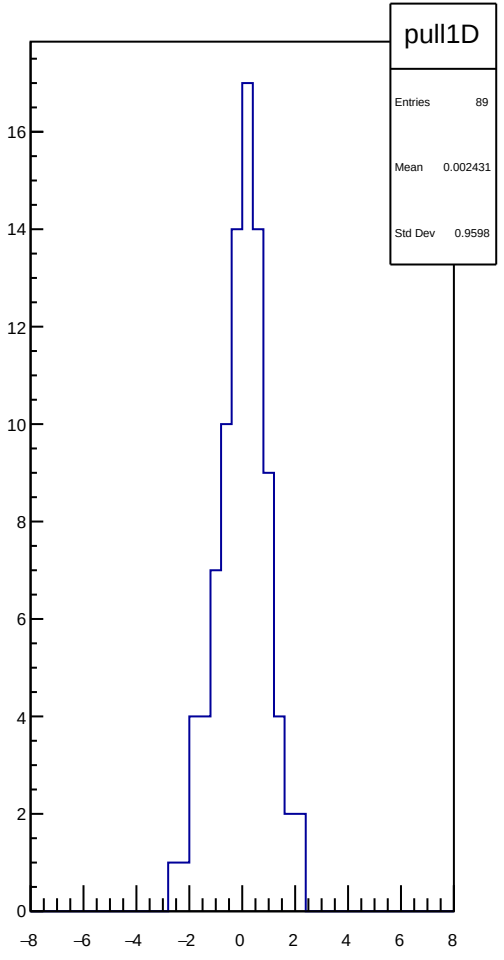

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 5615 / 88
p0 5195 ± 3.889
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

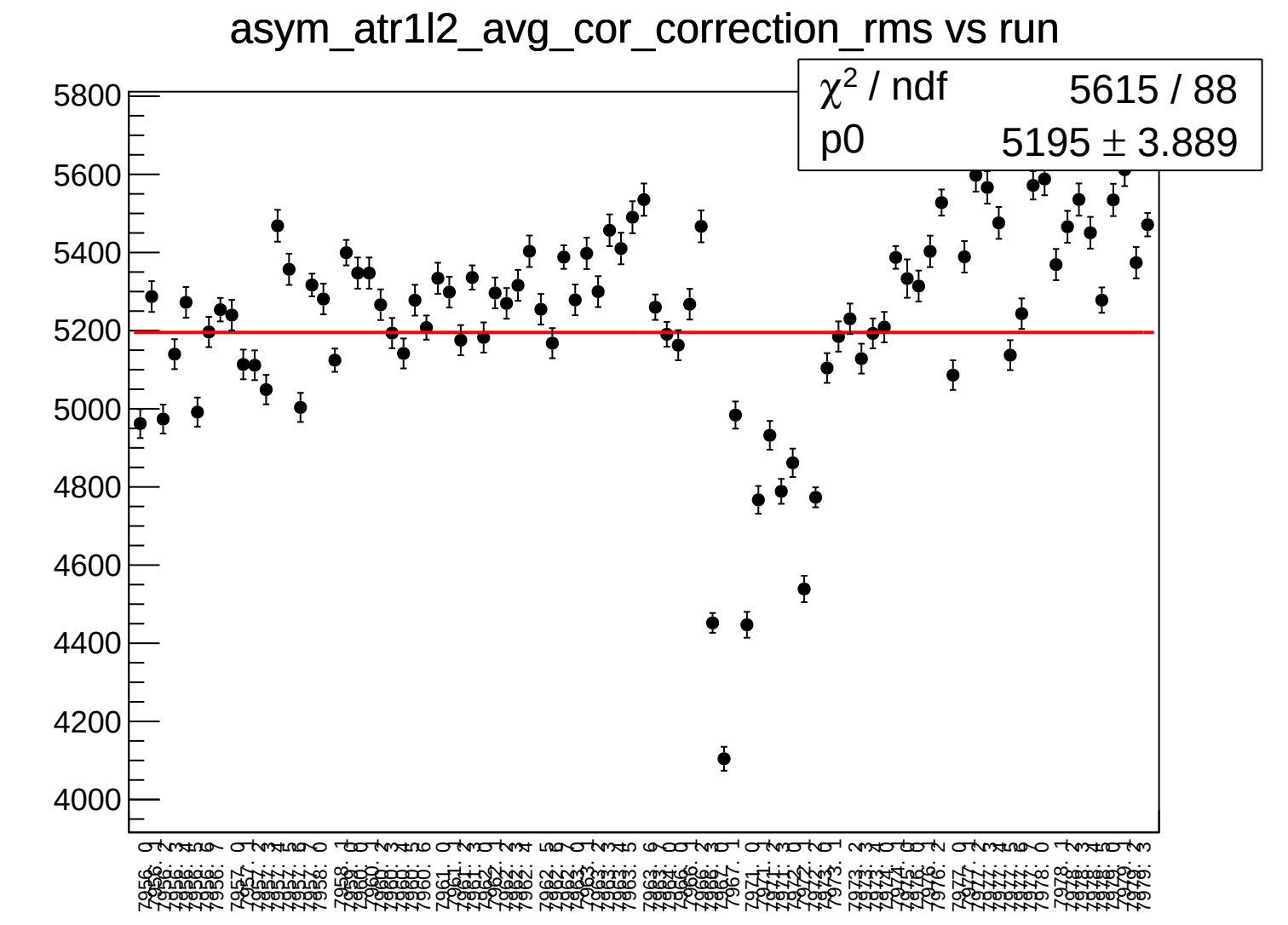

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 83.52 / 88
p0 −3530 ± 1863
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 51.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

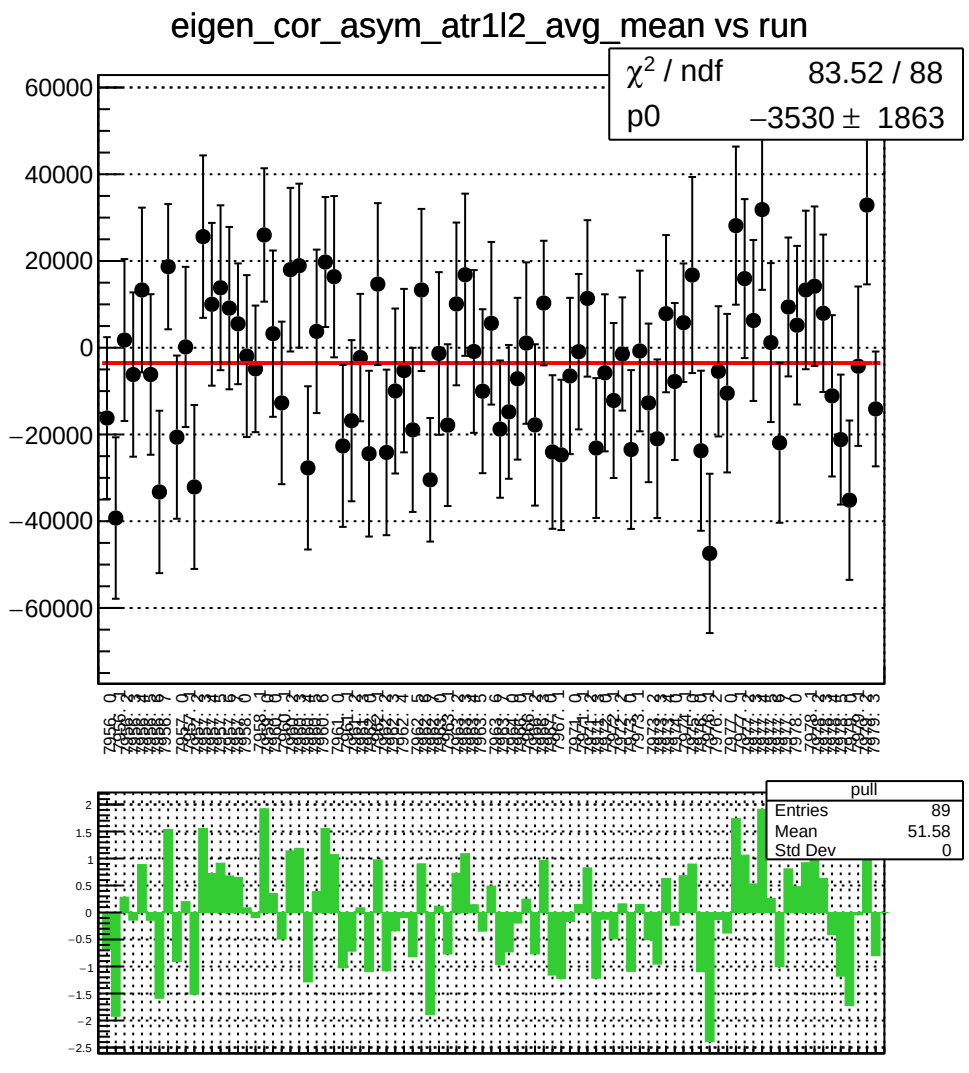

pull1D
Entries 89
Mean −0.002293
Std Dev 0.9687
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

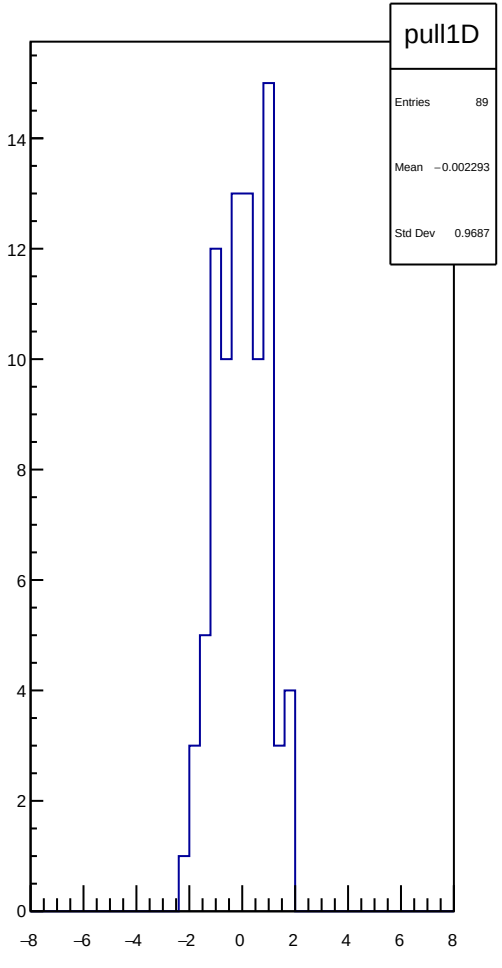

cor_asym_atr1l2_avg_rms vs run
$\chi^2$ / ndf 540.2 / 88
p0 1762 ± 1.317
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

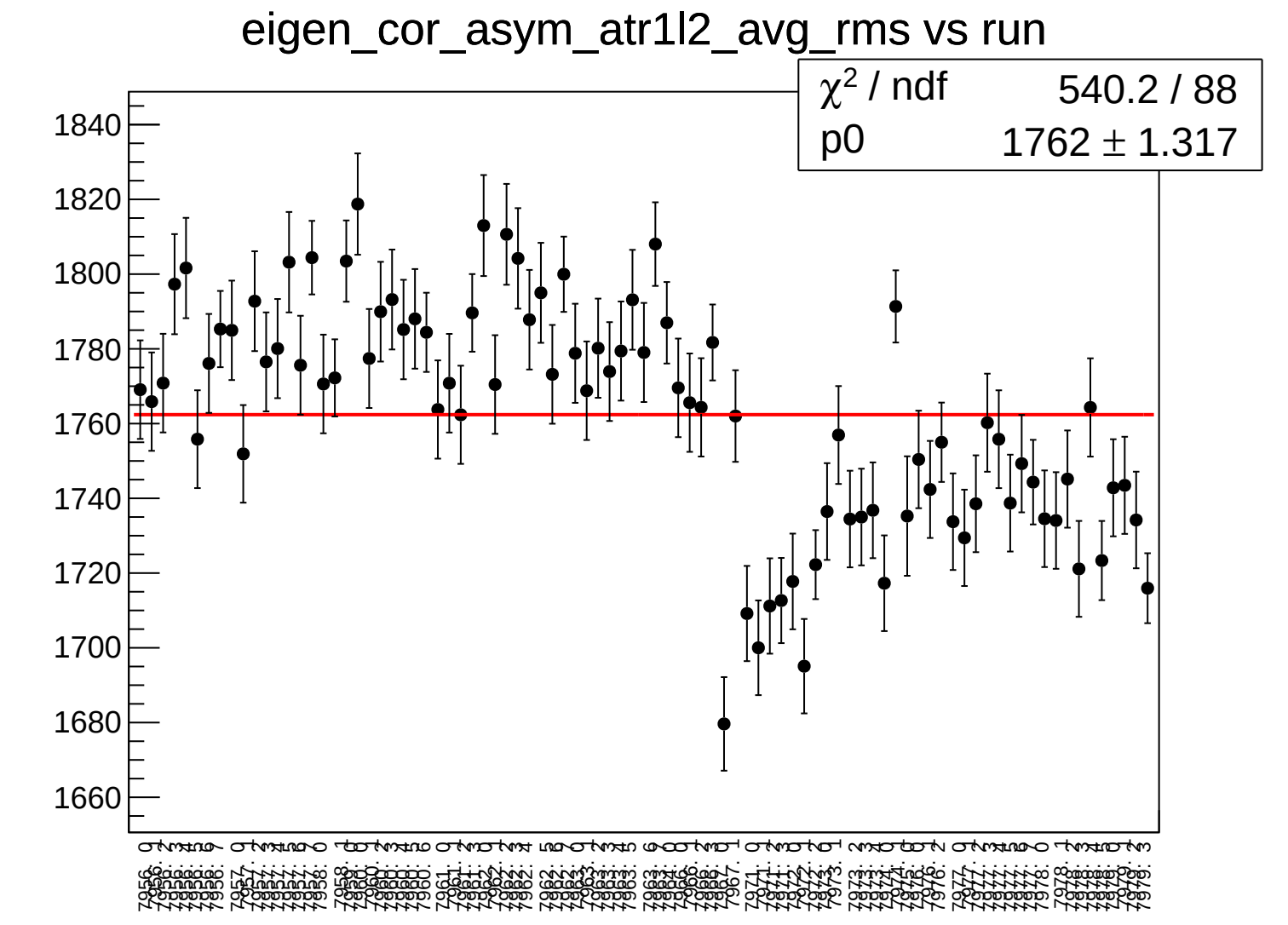

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82 / 88
p0 5415 ± 5499
pull
Entries 89
Mean −617.5
Std Dev 0

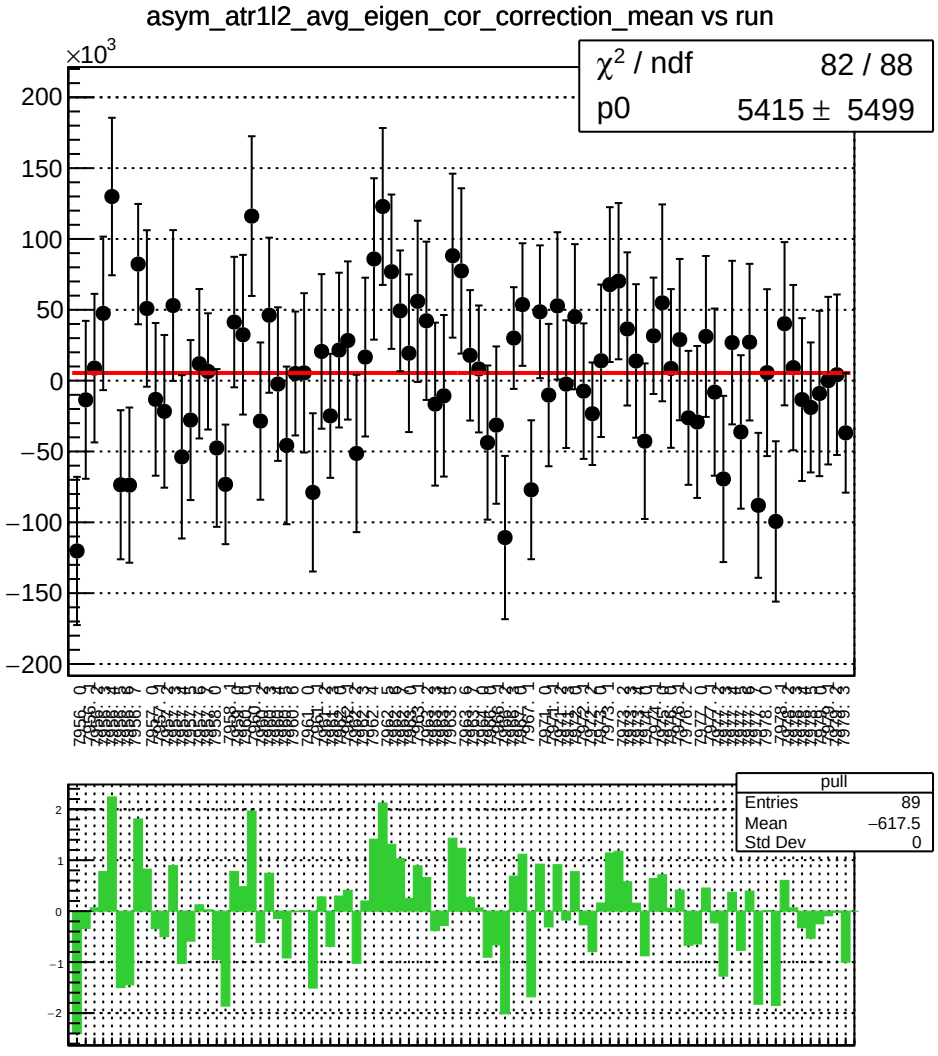

pull1D
Entries 89
Mean 0.002431
Std Dev 0.9598

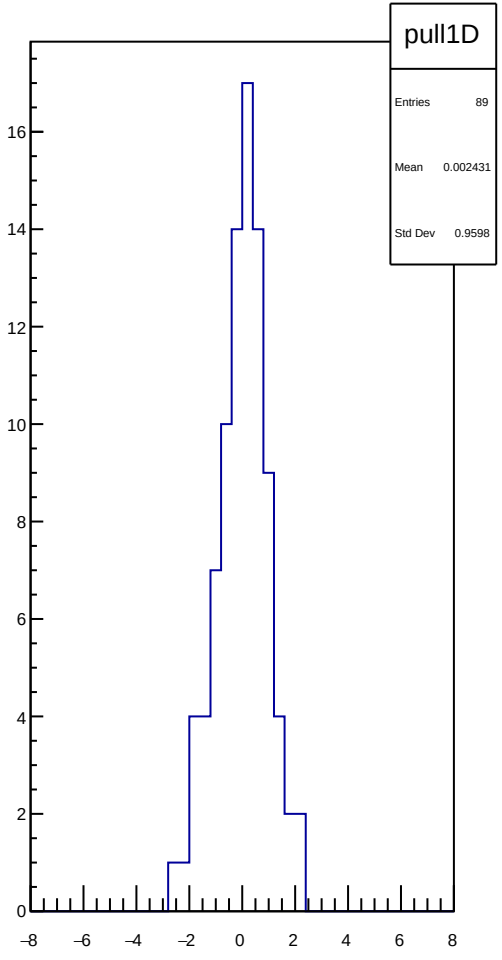

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 5615 / 88
p0 5195 ± 3.889
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

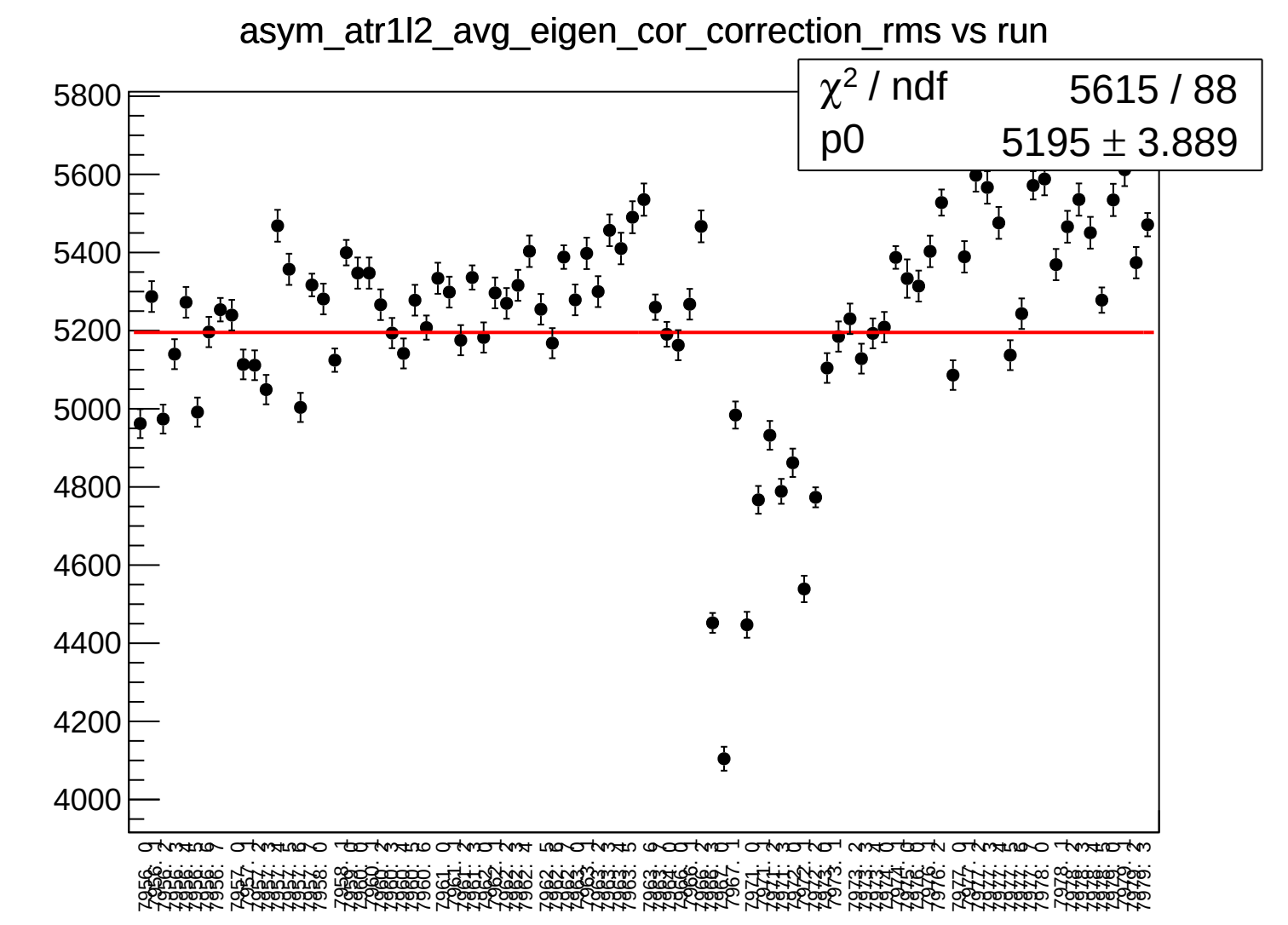

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 83.52 / 88
p0 −3530 ± 1863
pull
Entries 89
Mean 51.58
Std Dev 0

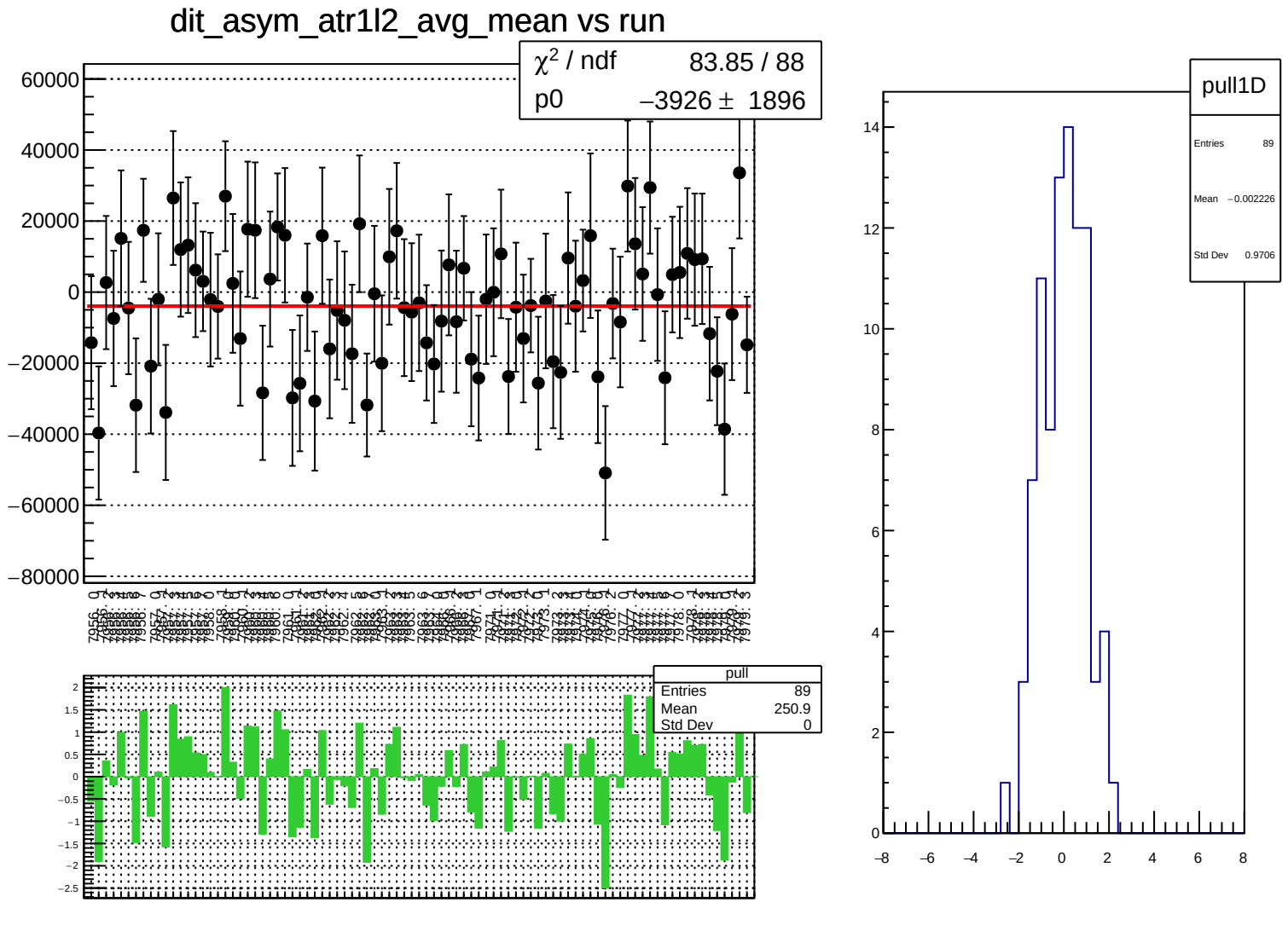

pull1D
Entries 89
Mean −0.002293
Std Dev 0.9687

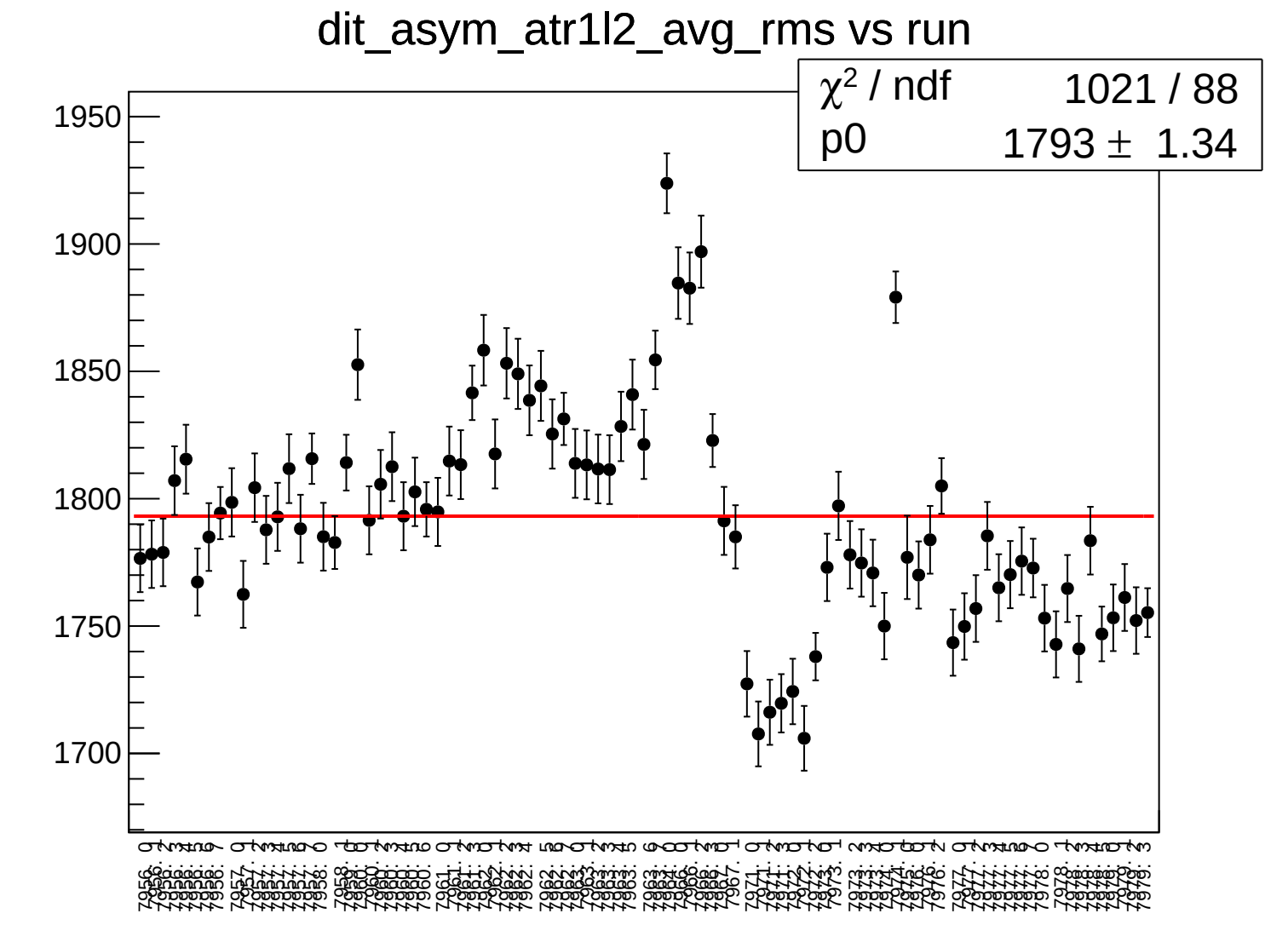

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 540.2 / 88
p0 1762 ± 1.317
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

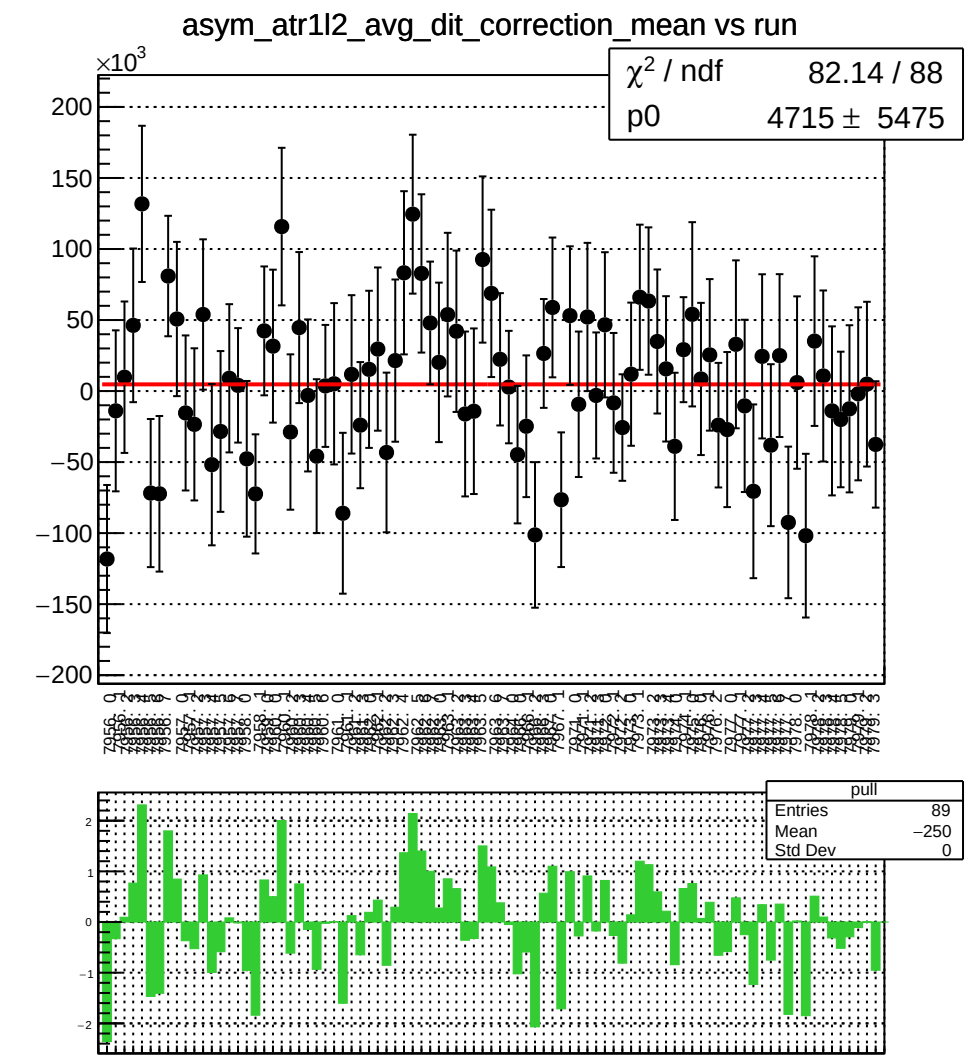

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82 / 88
p0 5415 ± 5499
pull
Entries 89
Mean −617.5
Std Dev 0

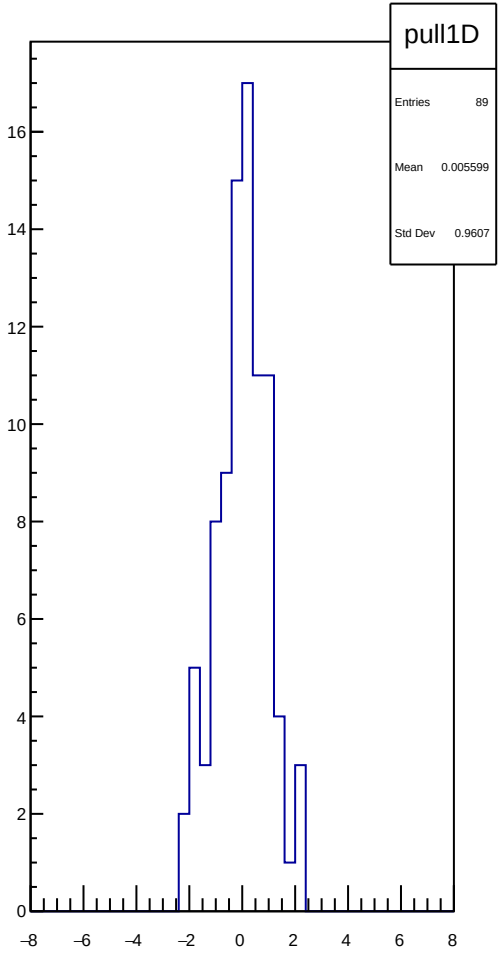

pull1D
Entries 89
Mean 0.002431
Std Dev 0.9598

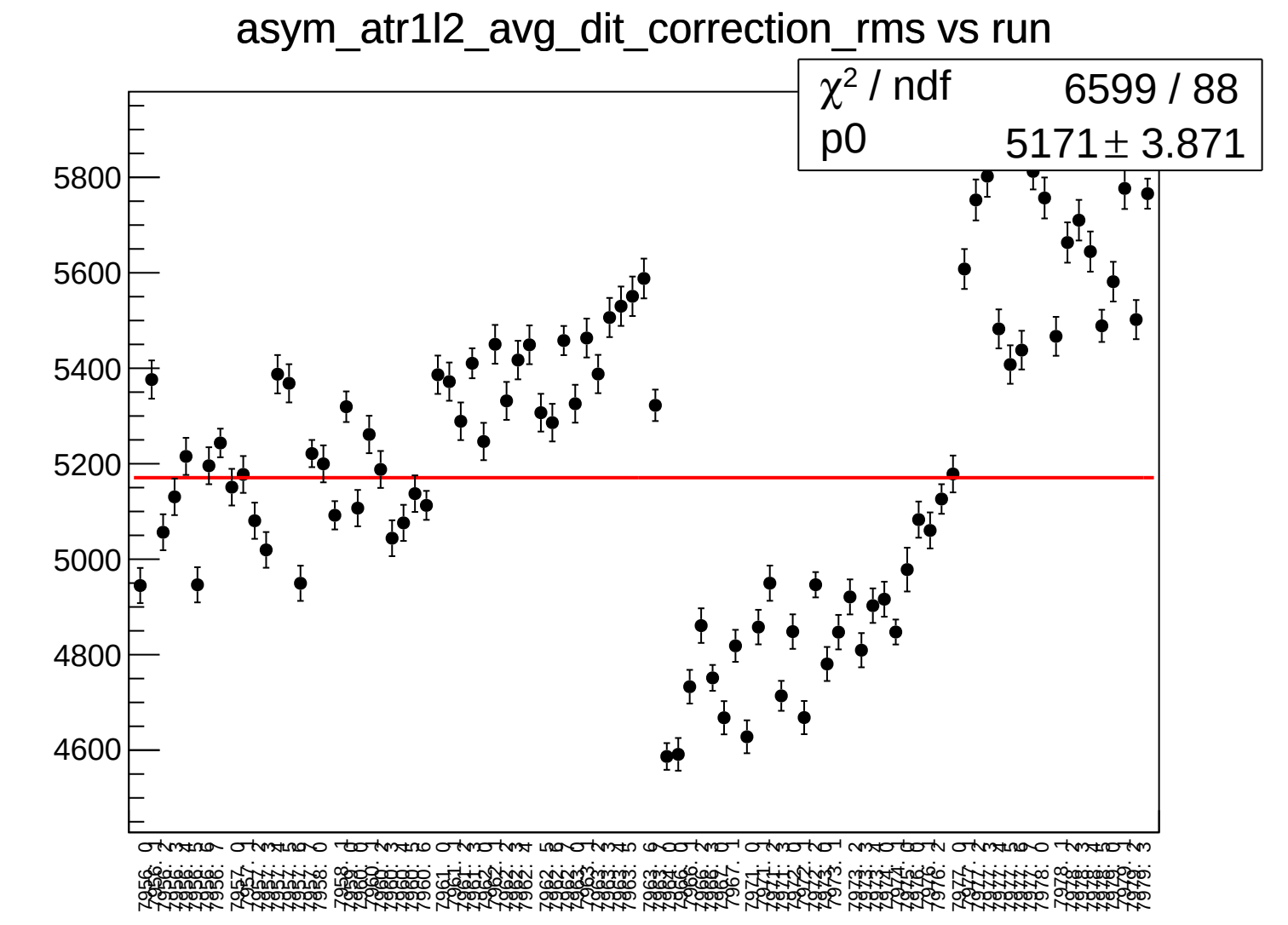

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5615 / 88
p0 5195 ± 3.889
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

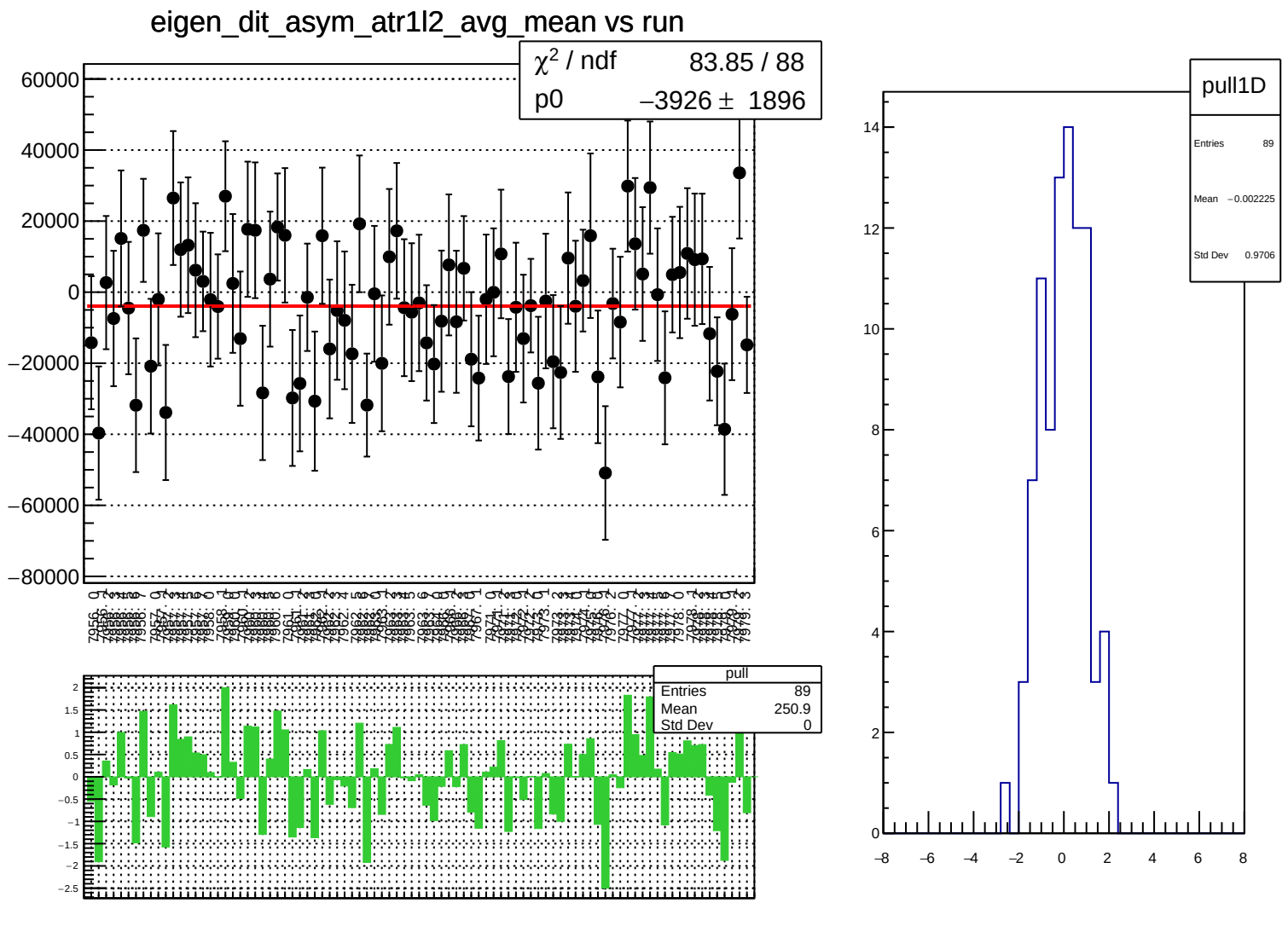

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 83.85 / 88
p0 −3926 ± 1896
pull
Entries 89
Mean 250.9
Std Dev 0
pull1D
Entries 89
Mean −0.002226
Std Dev 0.9706

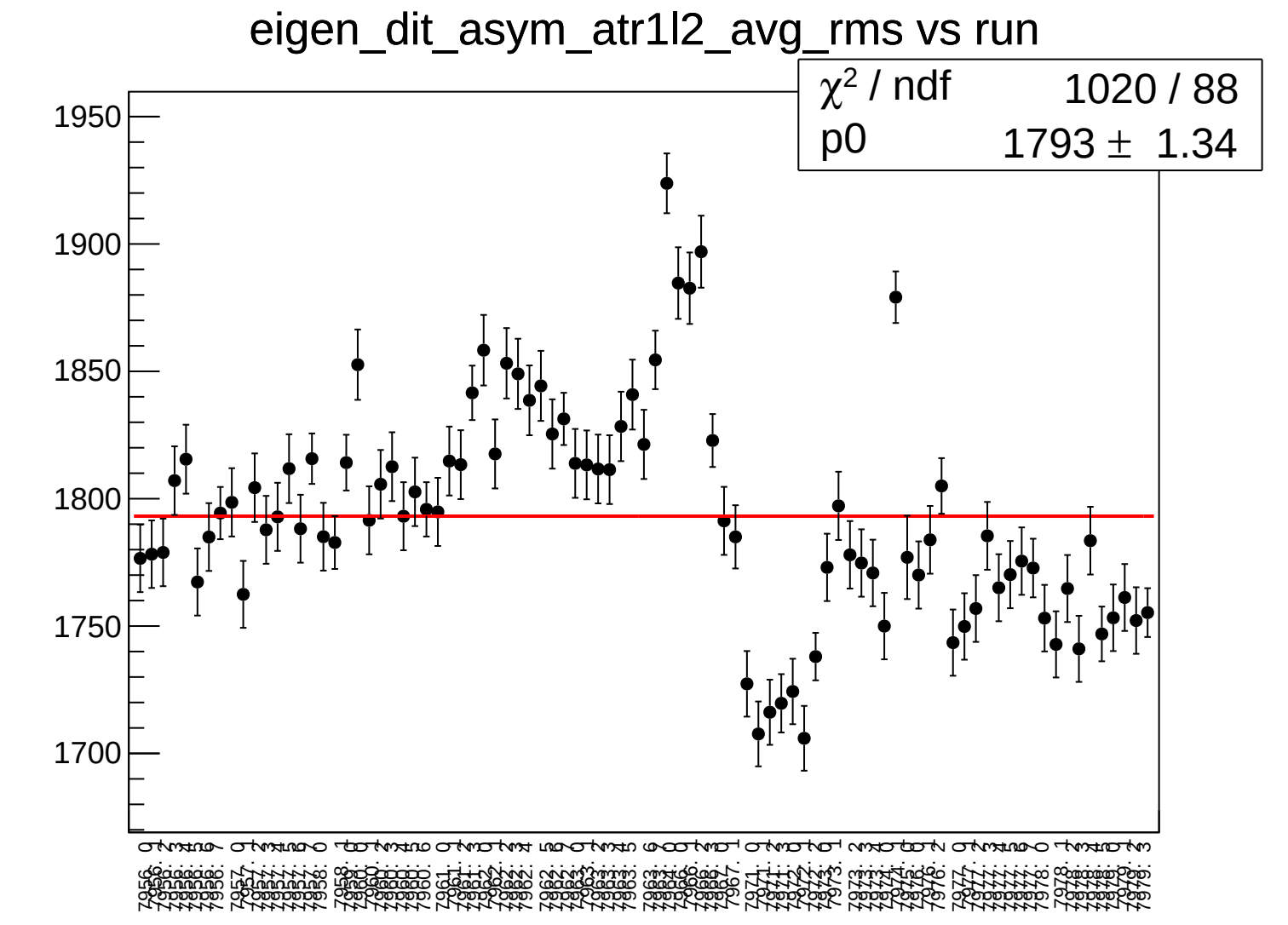

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1021 / 88
p0 1793 ± 1.34
1950
1900
1850
1800
1750
1700

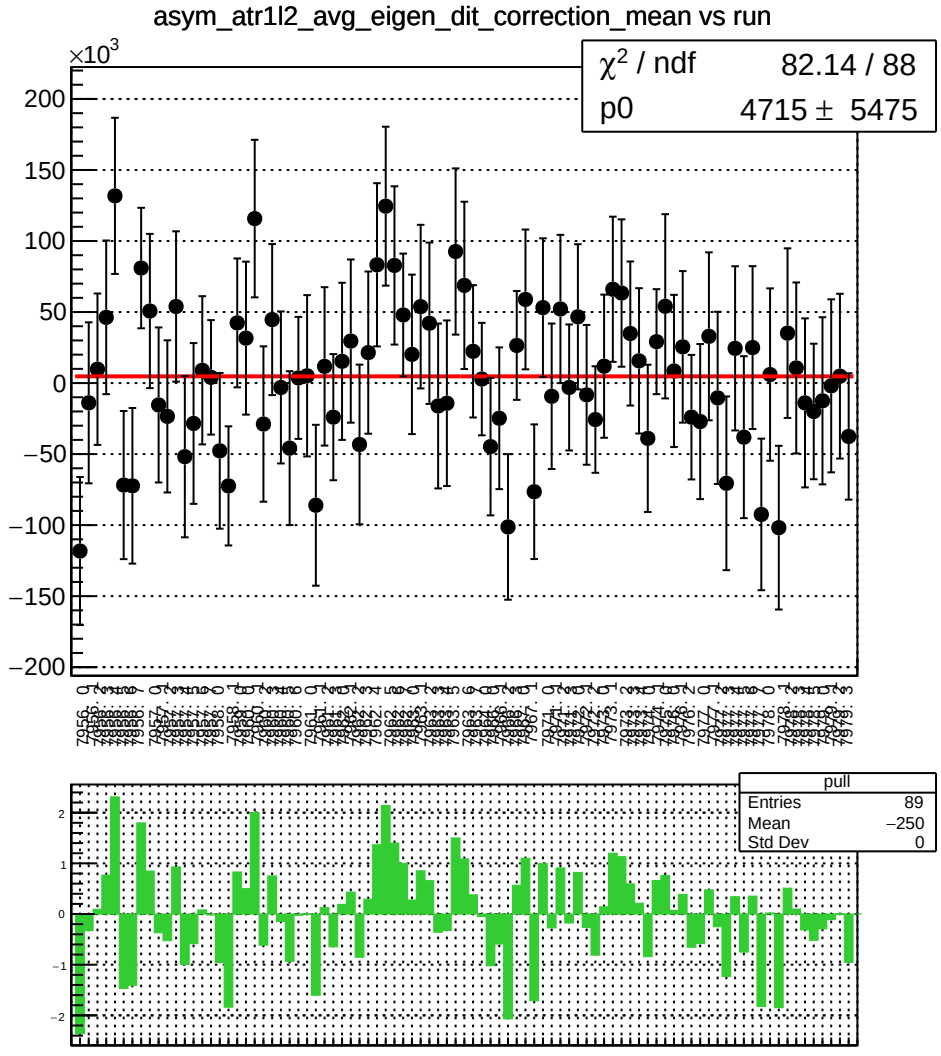

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.14 / 88
p0 4715 ± 5475
pull
Entries 89
Mean −250
Std Dev 0

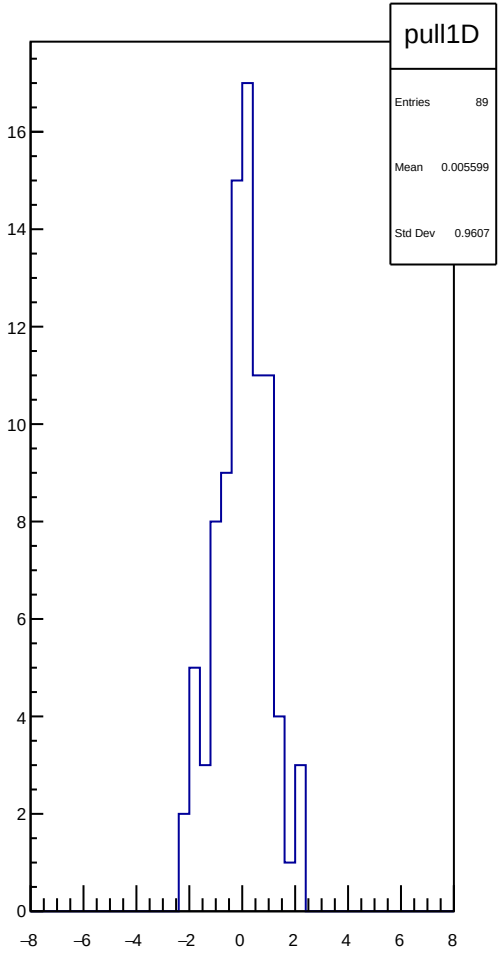

pull1D
Entries 89
Mean 0.005599
Std Dev 0.9607

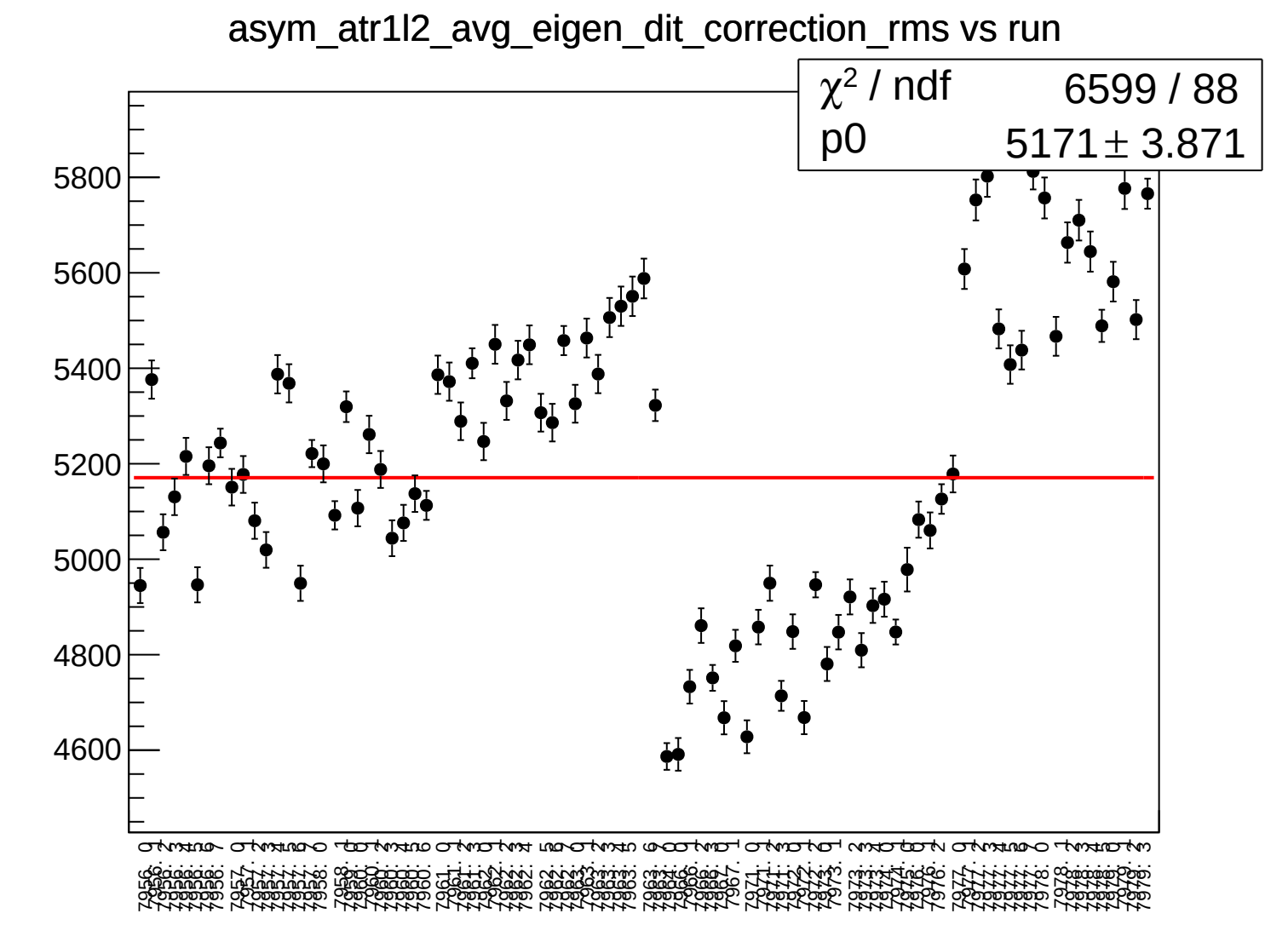

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 6599 / 88
p0 5171 ± 3.871
5800
5600
5400
5200
5000
4800
4600

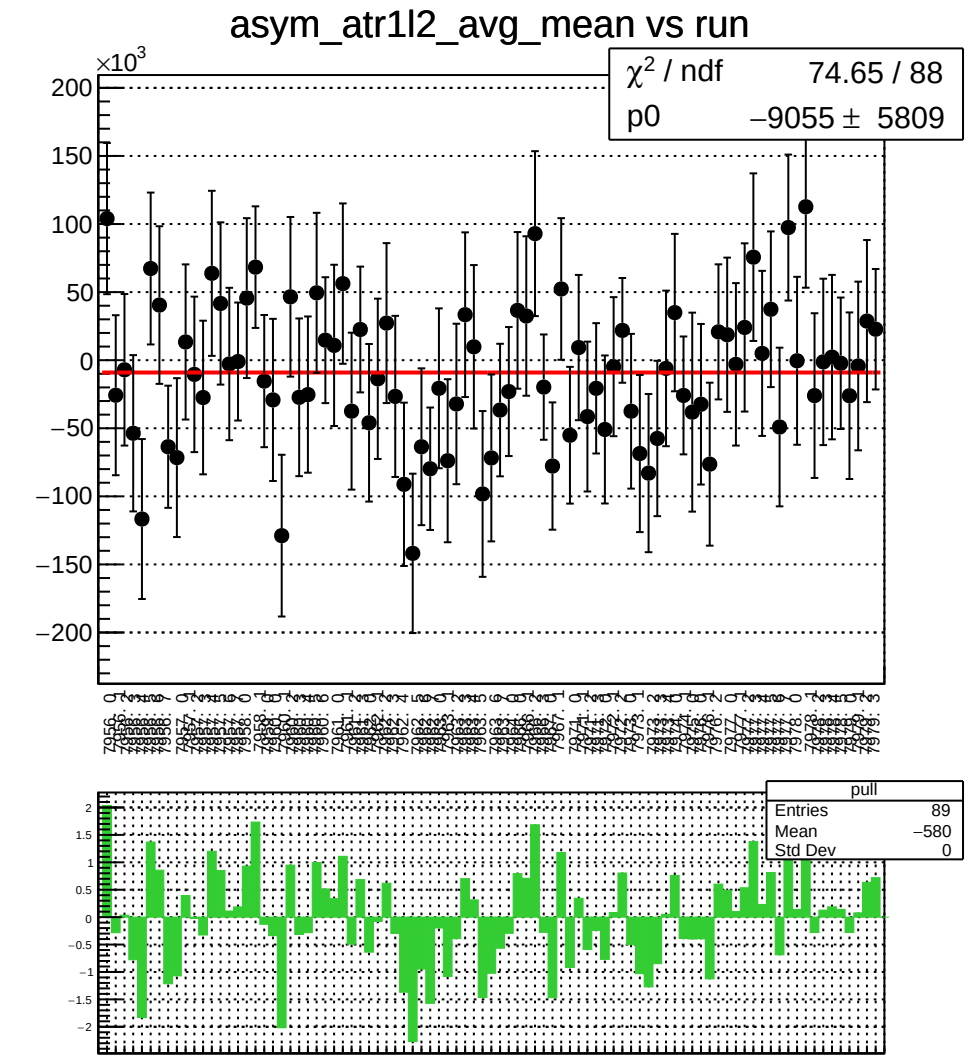

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 83.85 / 88
p0 −3926 ± 1896
pull
Entries 89
Mean 250.9
Std Dev 0
pull1D
Entries 89
Mean −0.002225
Std Dev 0.9706

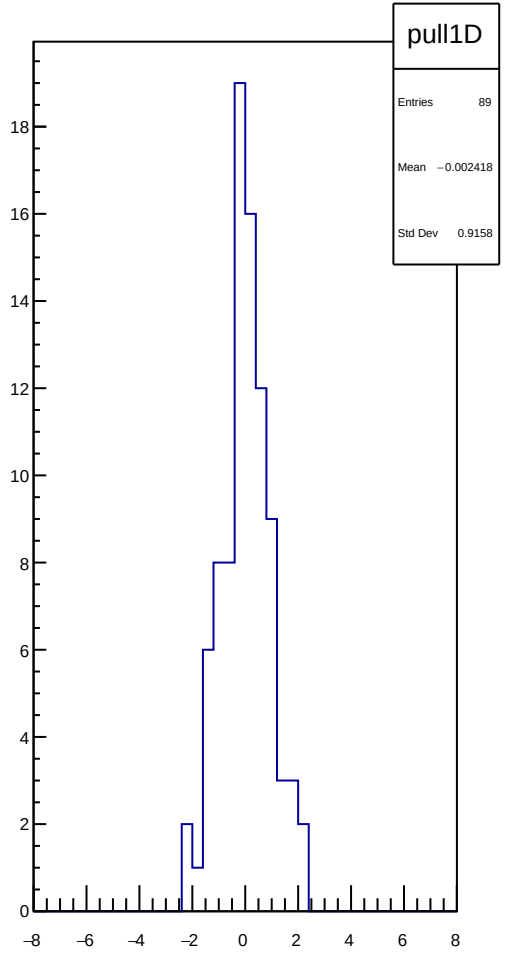

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1020 / 88
p0 1793 ± 1.34
1950
1900
1850
1800
1750
1700

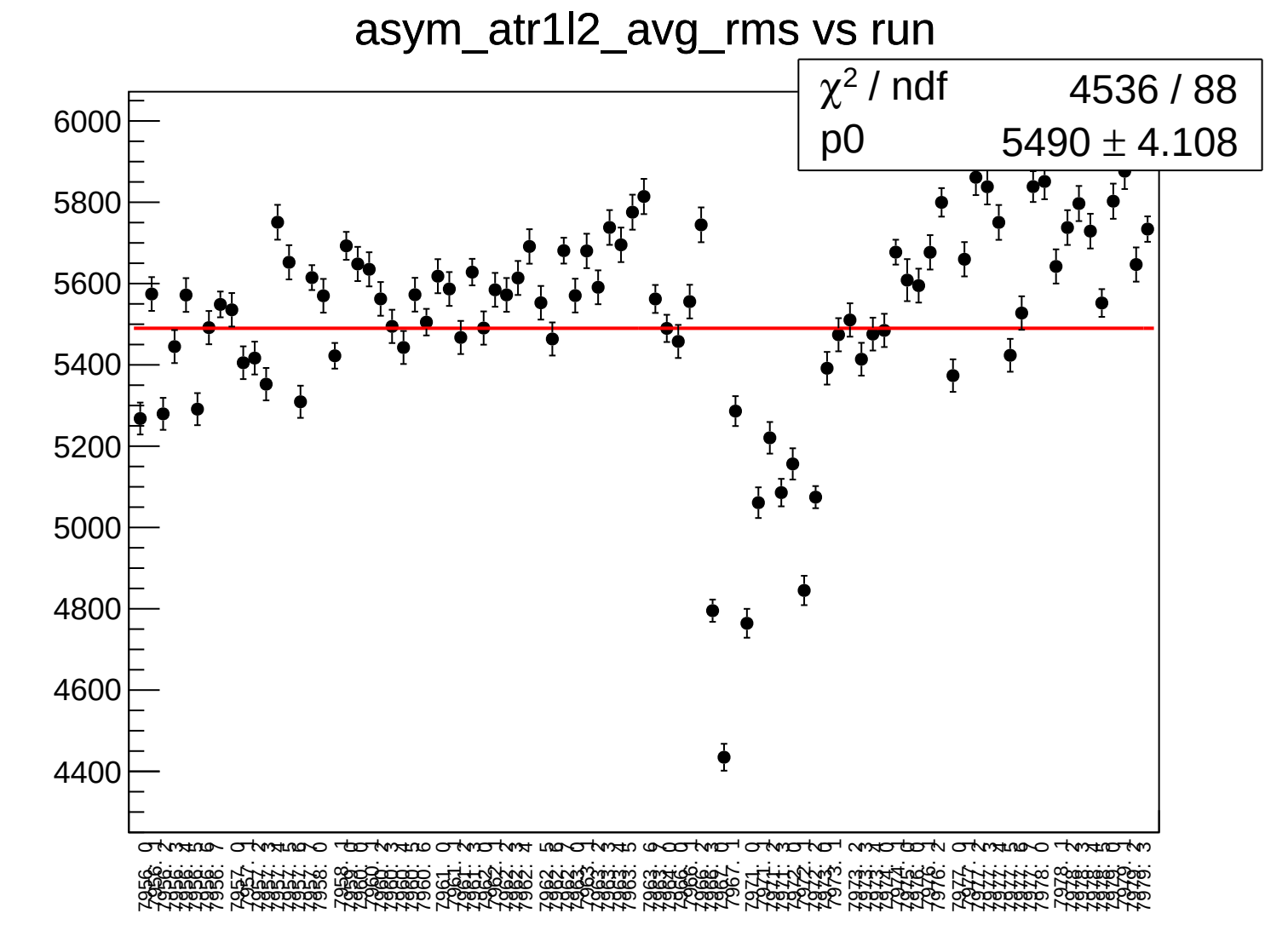

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.14 / 88
p0 4715 ± 5475
pull
Entries 89
Mean −250
Std Dev 0

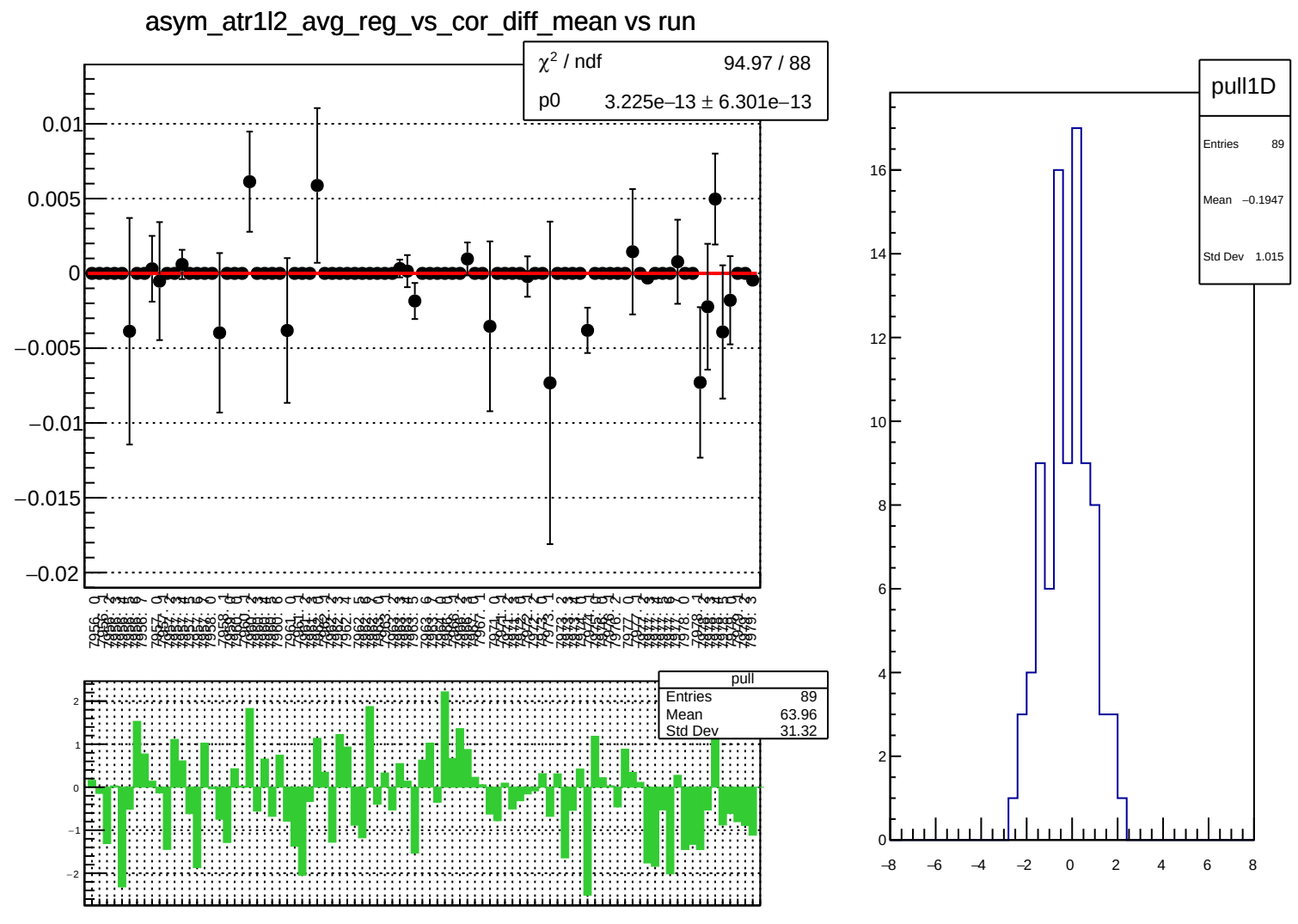

pull1D
Entries 89
Mean 0.005599
Std Dev 0.9607

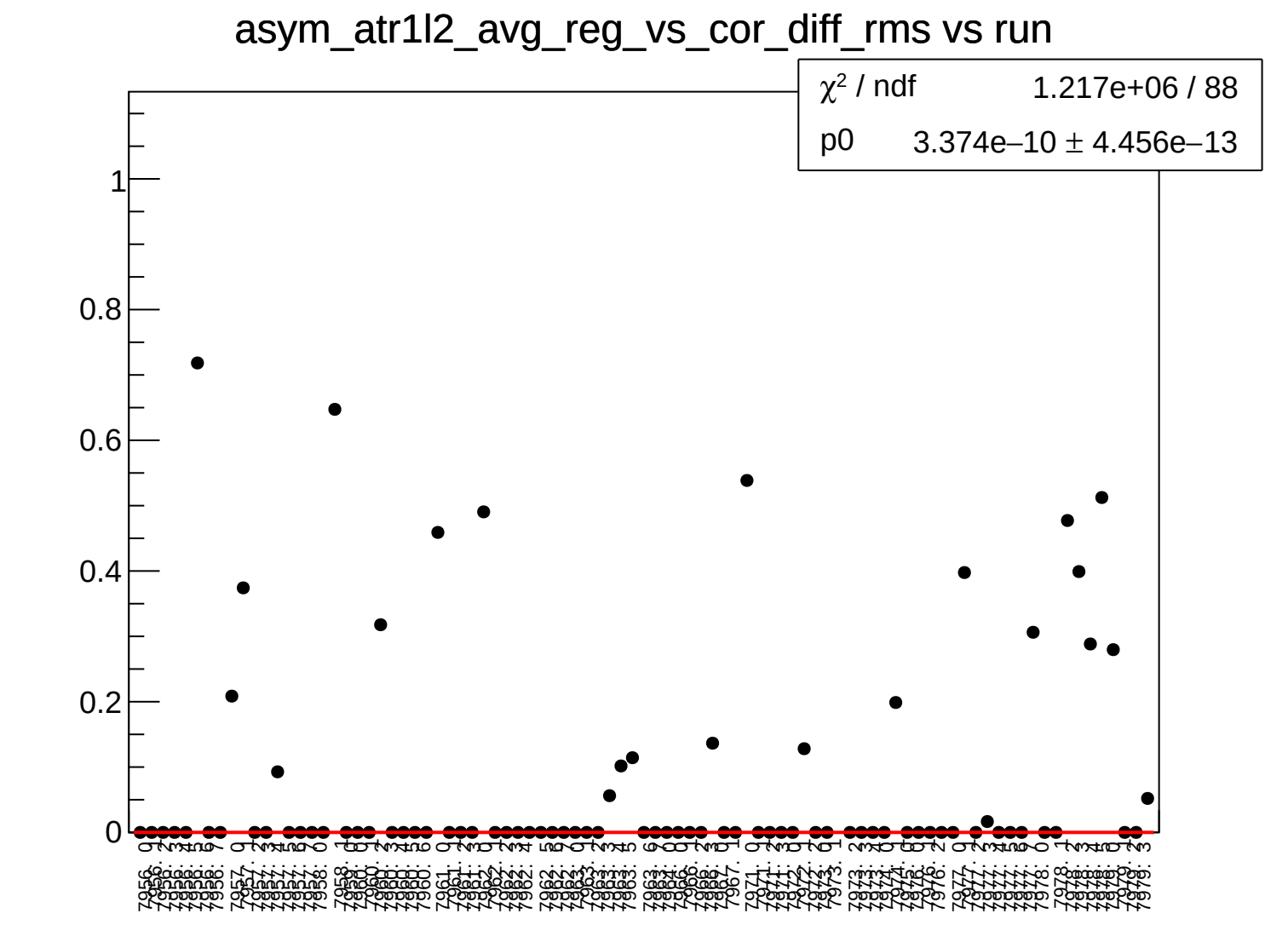

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6599 / 88
p0 5171 ± 3.871
5800
5600
5400
5200
5000
4800
4600

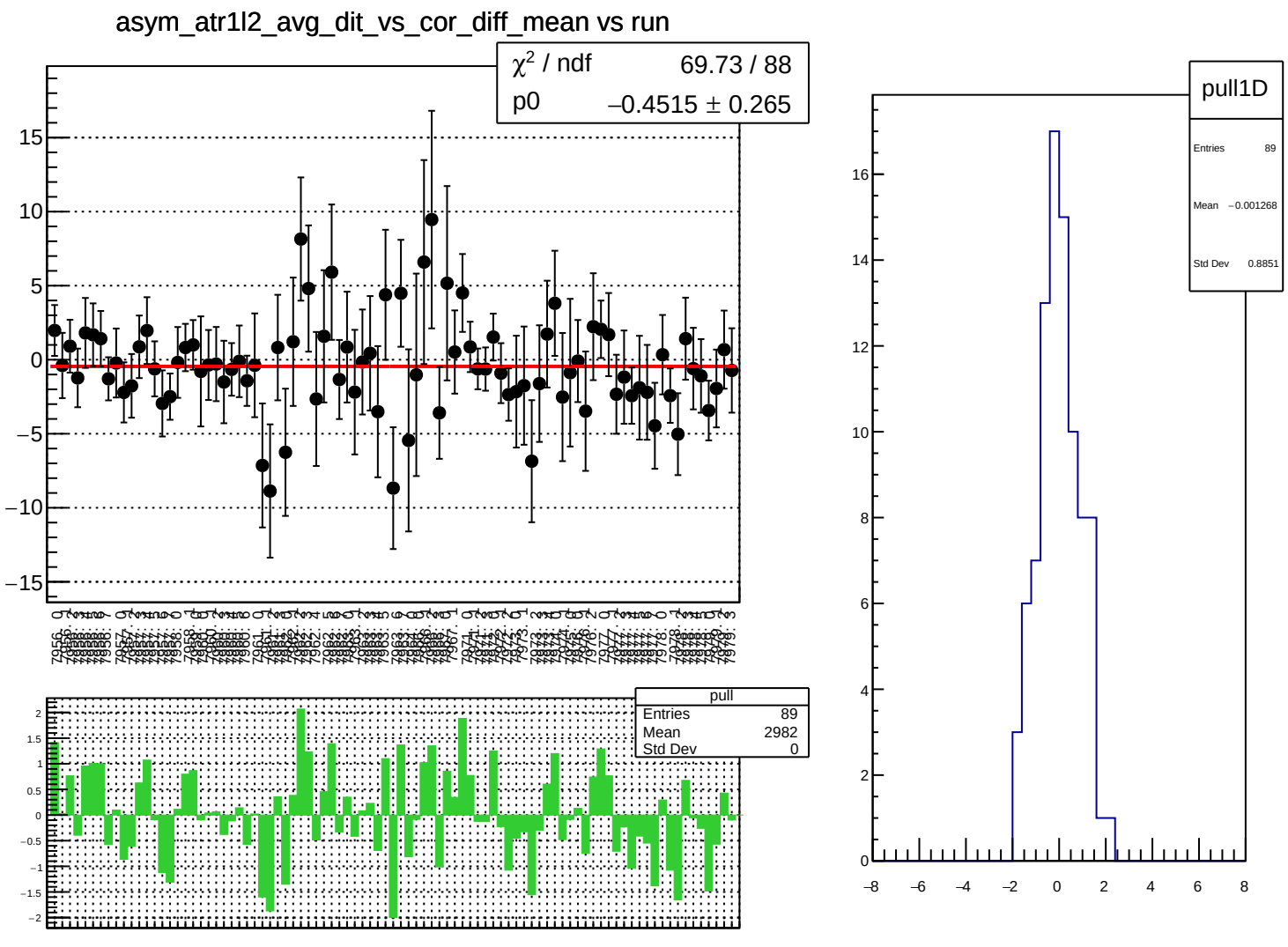

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 74.65 / 88
p0 −9055 ± 5809
pull
Entries 89
Mean −580
Std Dev 0

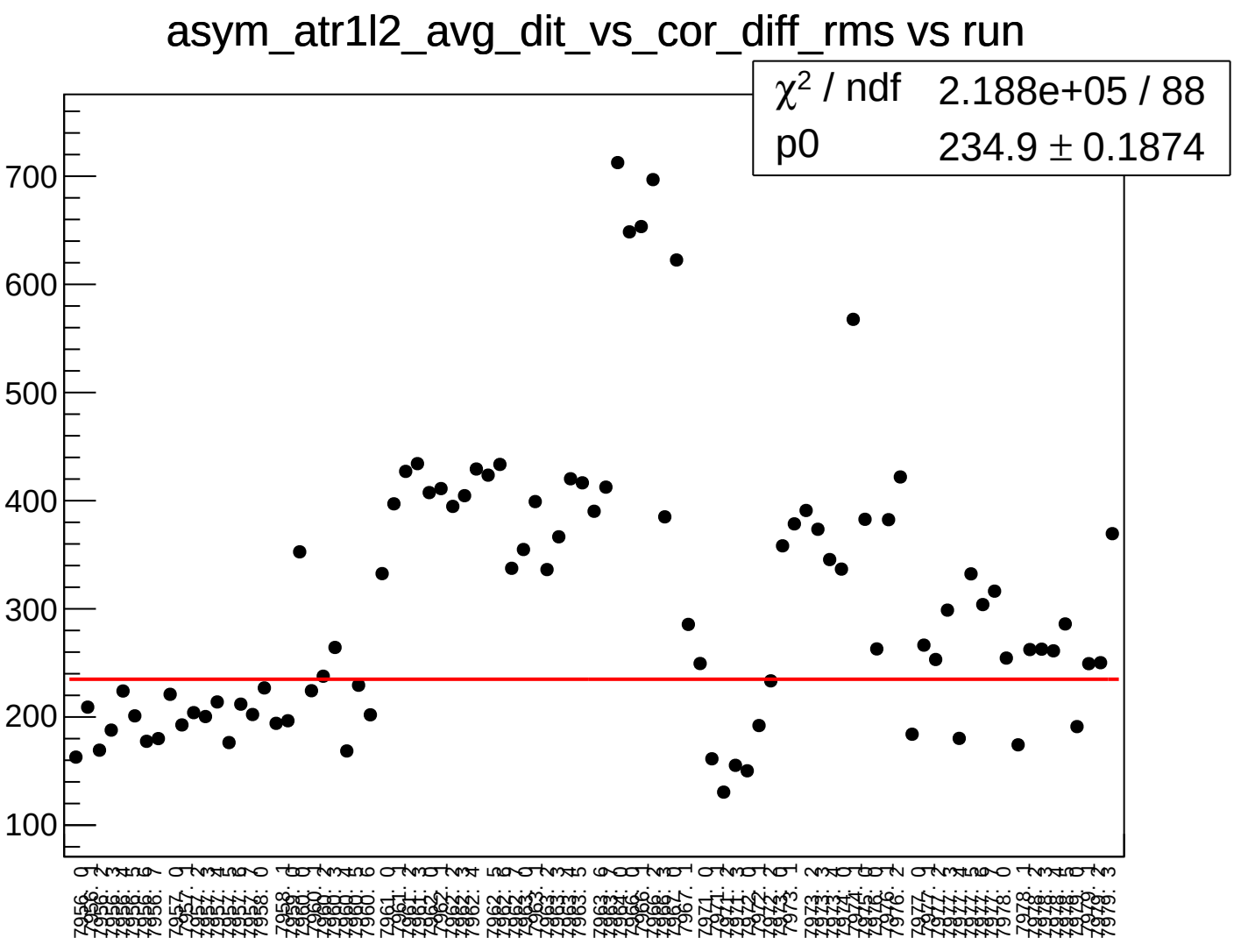

pull1D
Entries 89
Mean −0.002418
Std Dev 0.9158

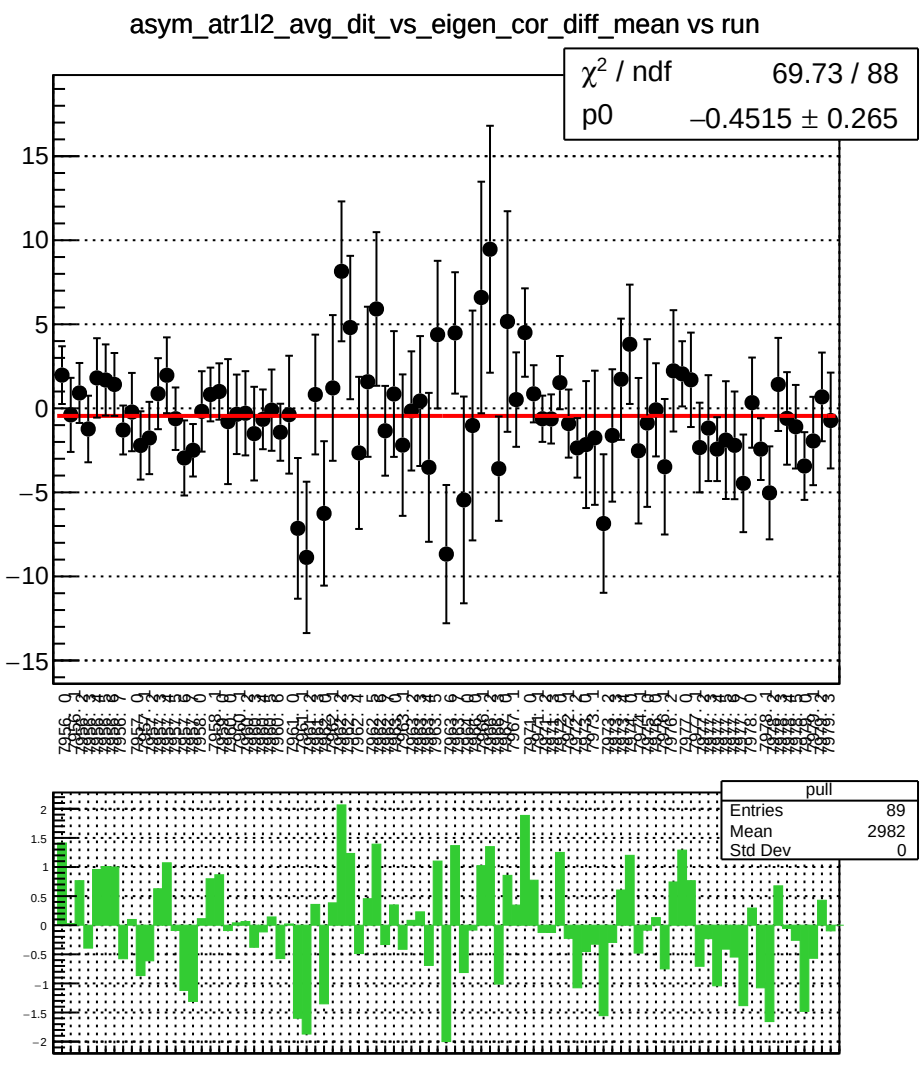

asym_atr1l2_avg_rms vs run
χ² / ndf 4536 / 88
p0 5490 ± 4.108
6000
5800
5600
5400
5200
5000
4800
4600
4400

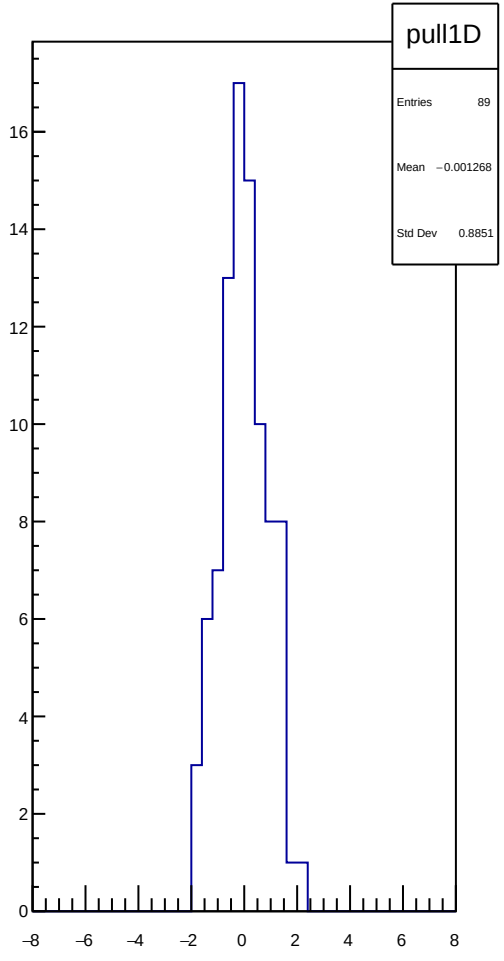

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.97 / 88
p0 3.225e−13 ± 6.301e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 63.96
Std Dev 31.32
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.1947
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

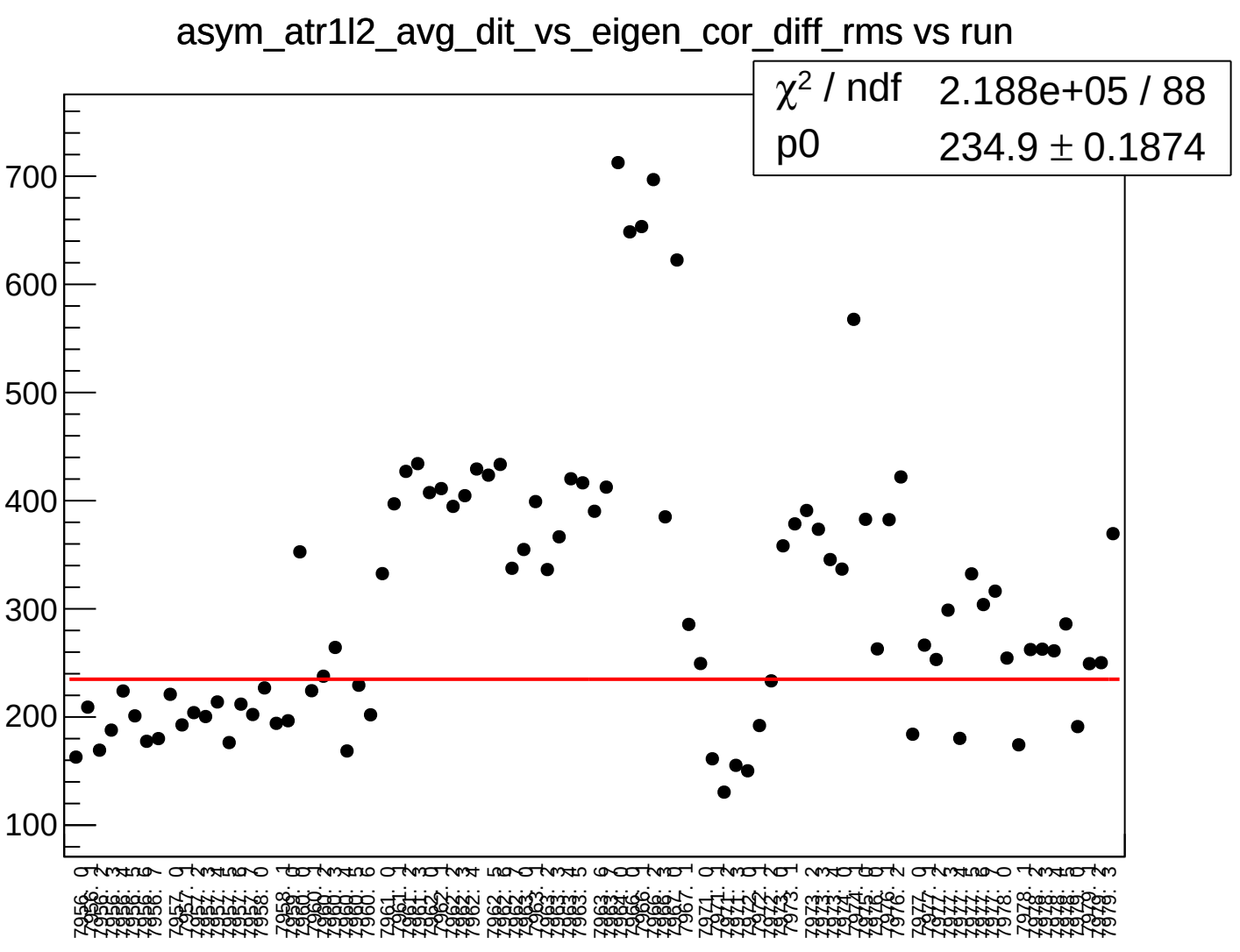

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.217e+06 / 88
p0 3.374e−10 ± 4.456e−13
1
0.8
0.6
0.4
0.2
0

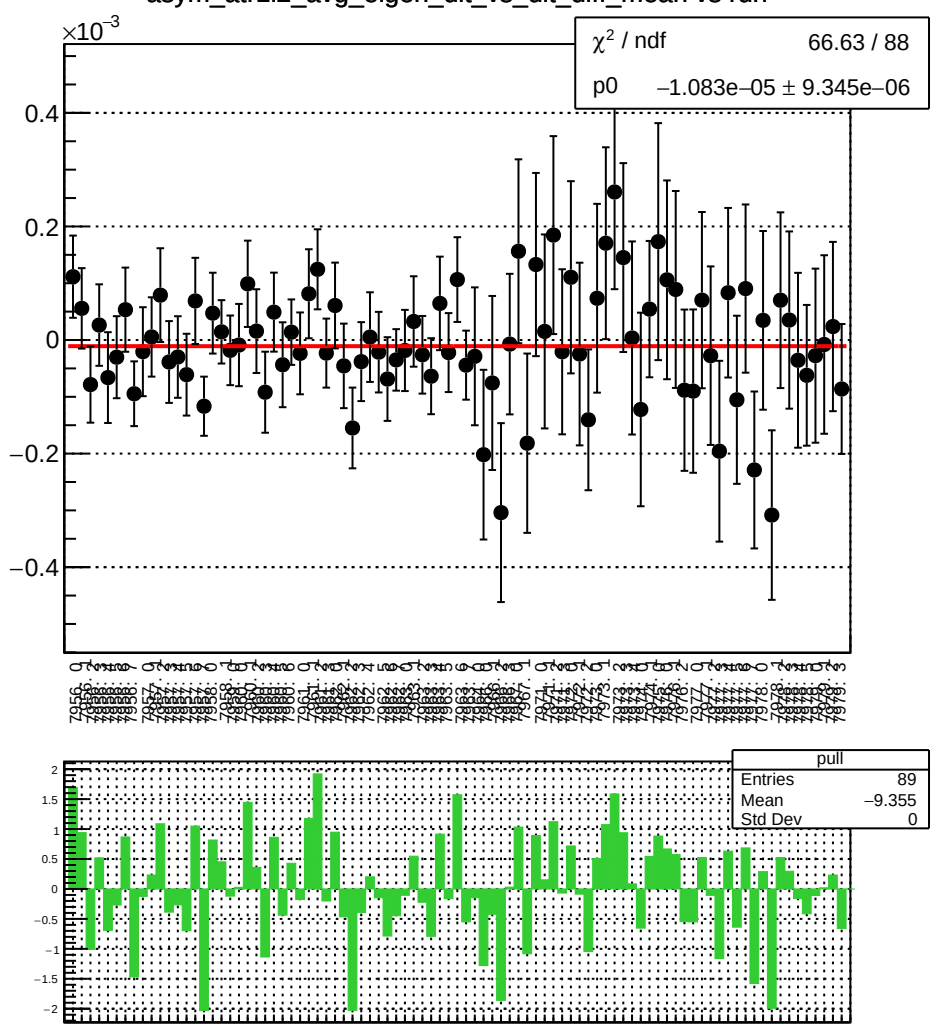

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.73 / 88
p0 −0.4515 ± 0.265
pull
Entries 89
Mean 2982
Std Dev 0
pull1D
Entries 89
Mean −0.001268
Std Dev 0.8851

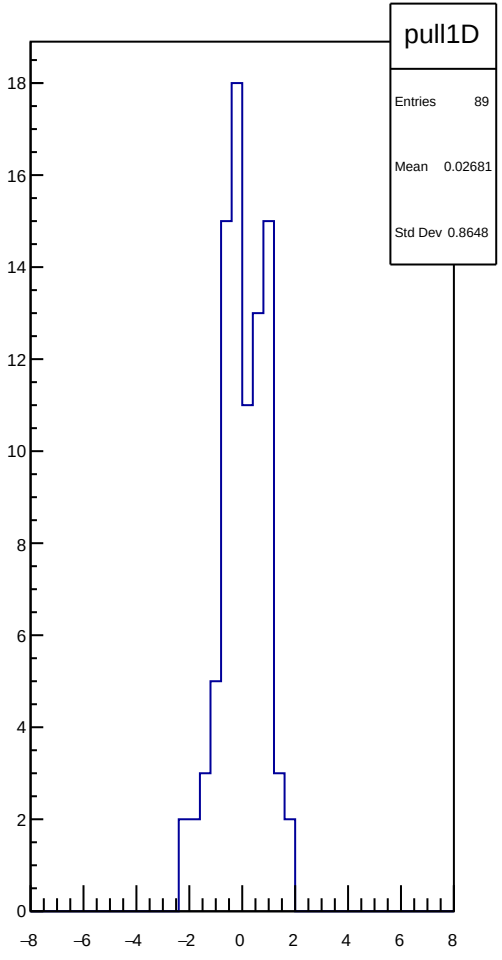

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.188e+05 / 88
p0 234.9 ± 0.1874
700
600
500
400
300
200
100

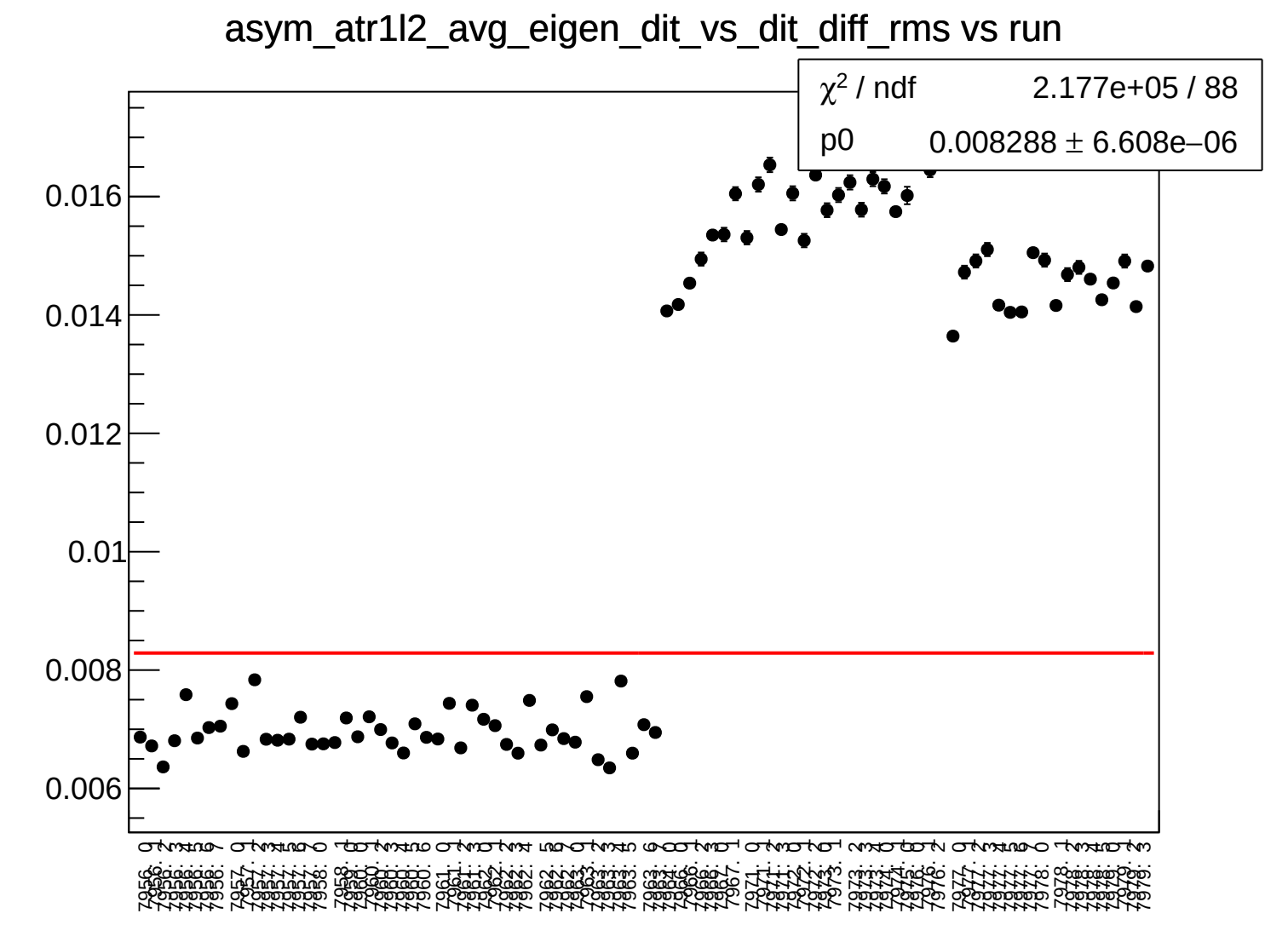

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.73 / 88
p0 −0.4515 ± 0.265
pull
Entries 89
Mean 2982
Std Dev 0

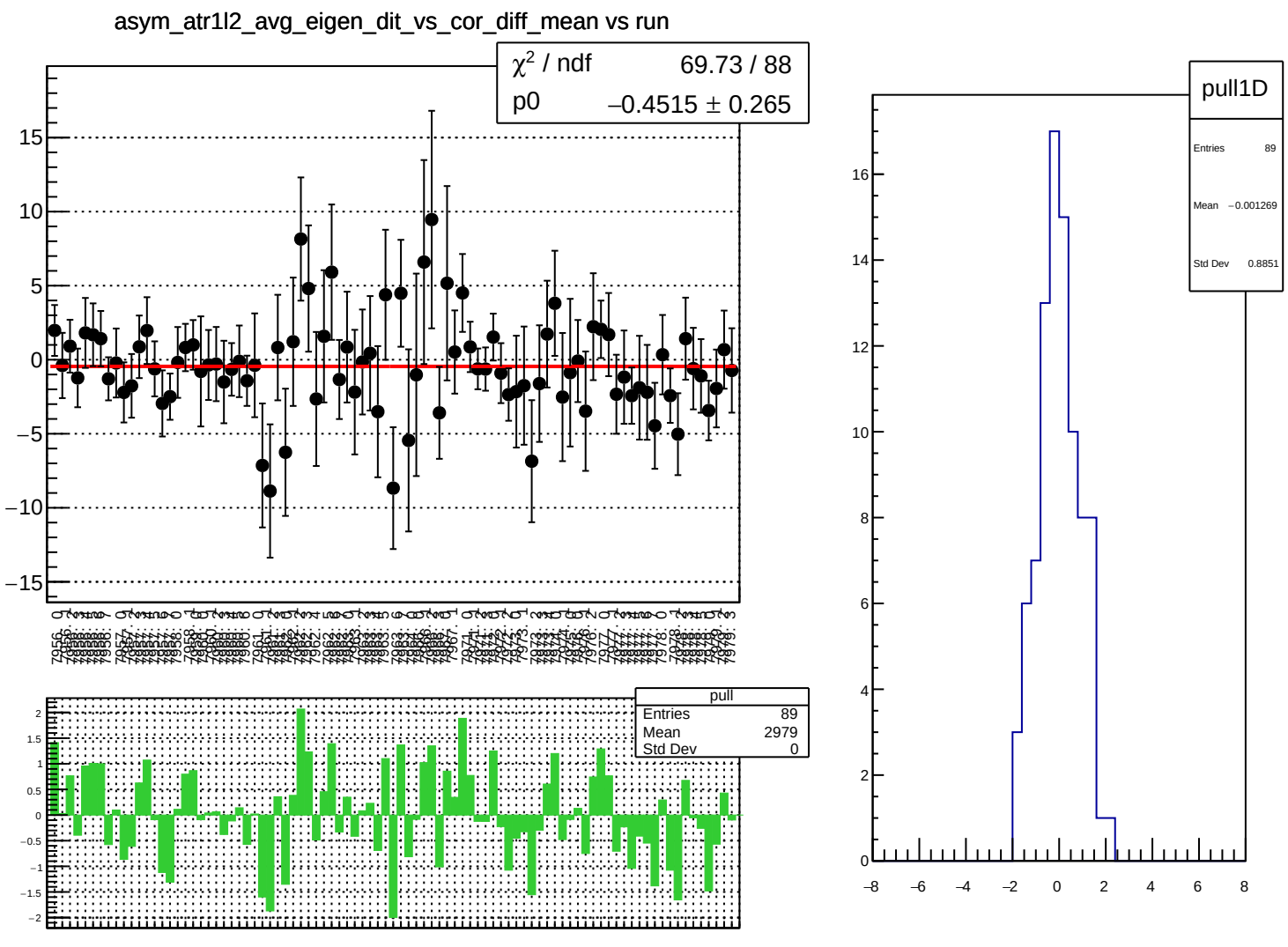

pull1D
Entries 89
Mean −0.001268
Std Dev 0.8851

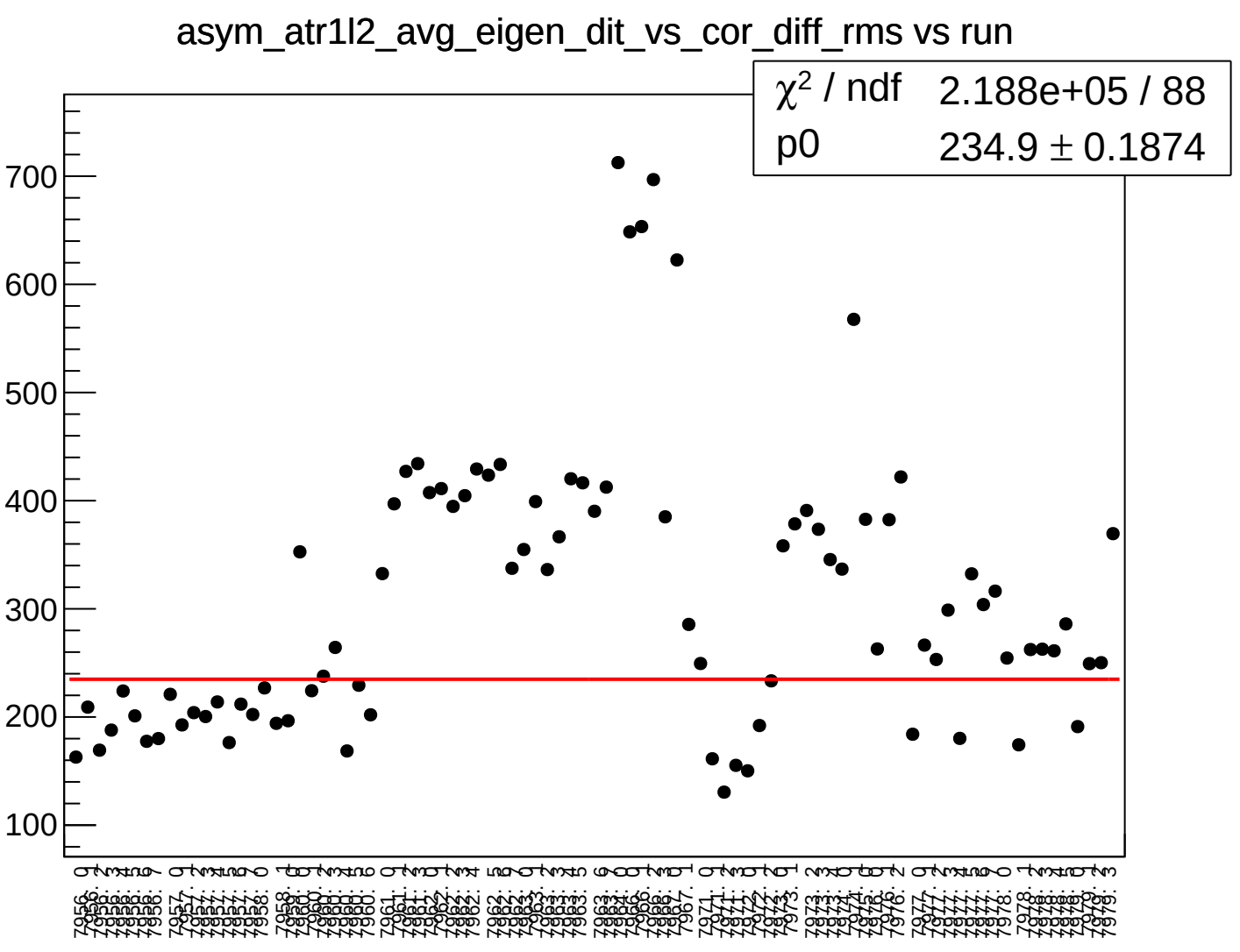

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.188e+05 / 88
p0 234.9 ± 0.1874
700
600
500
400
300
200
100

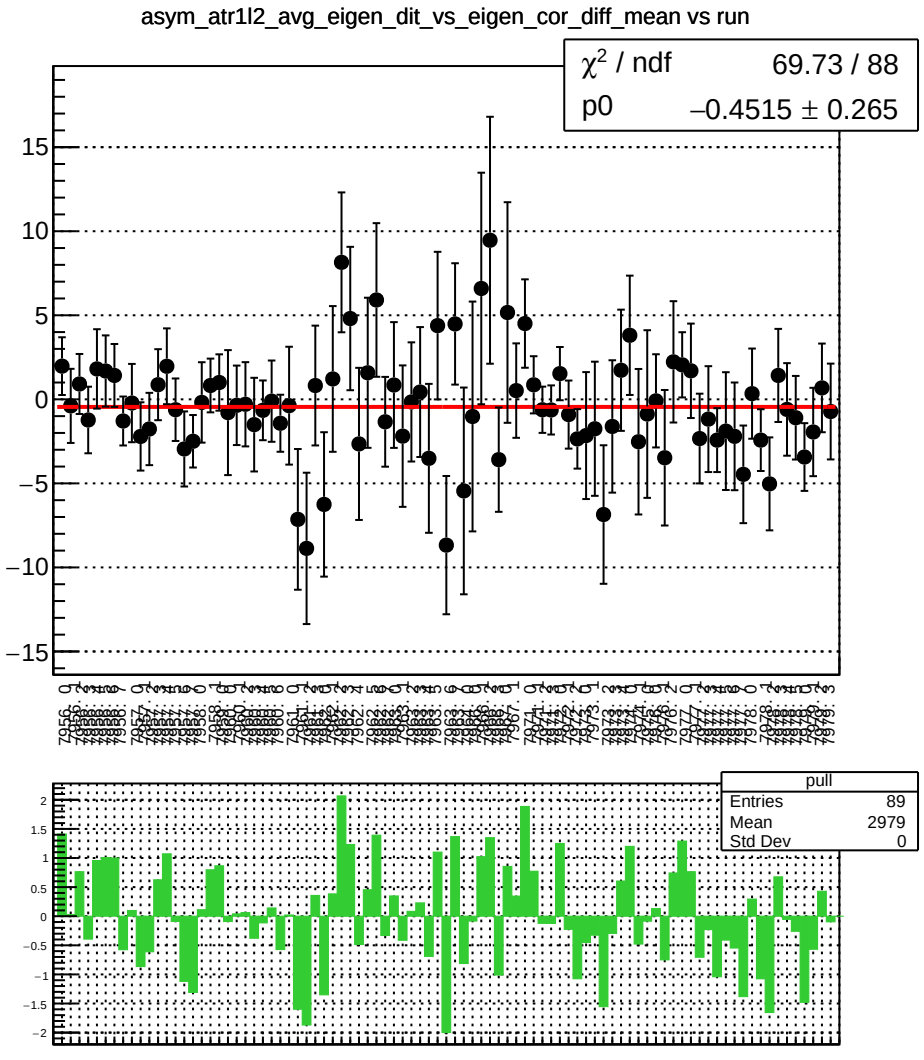

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 66.63 / 88
p0 −1.083e−05 ± 9.345e−06
pull
Entries 89
Mean −9.355
Std Dev 0

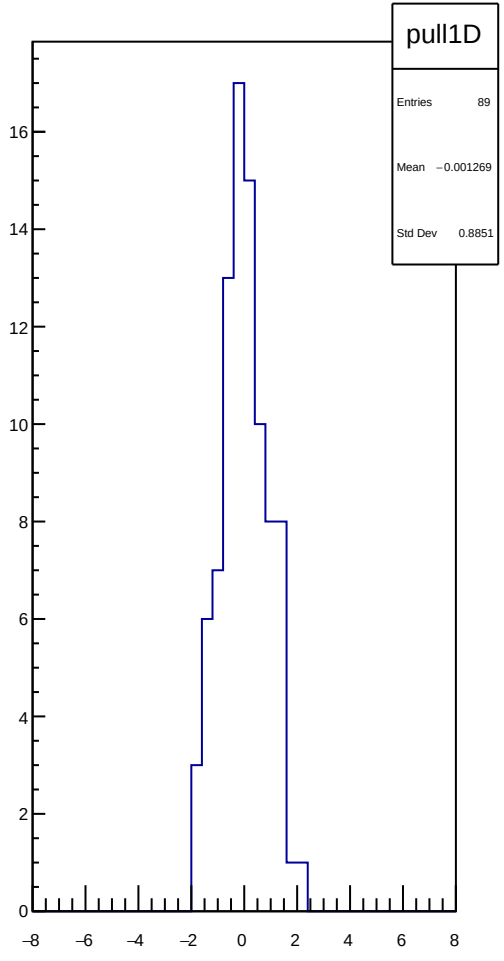

pull1D
Entries 89
Mean 0.02681
Std Dev 0.8648

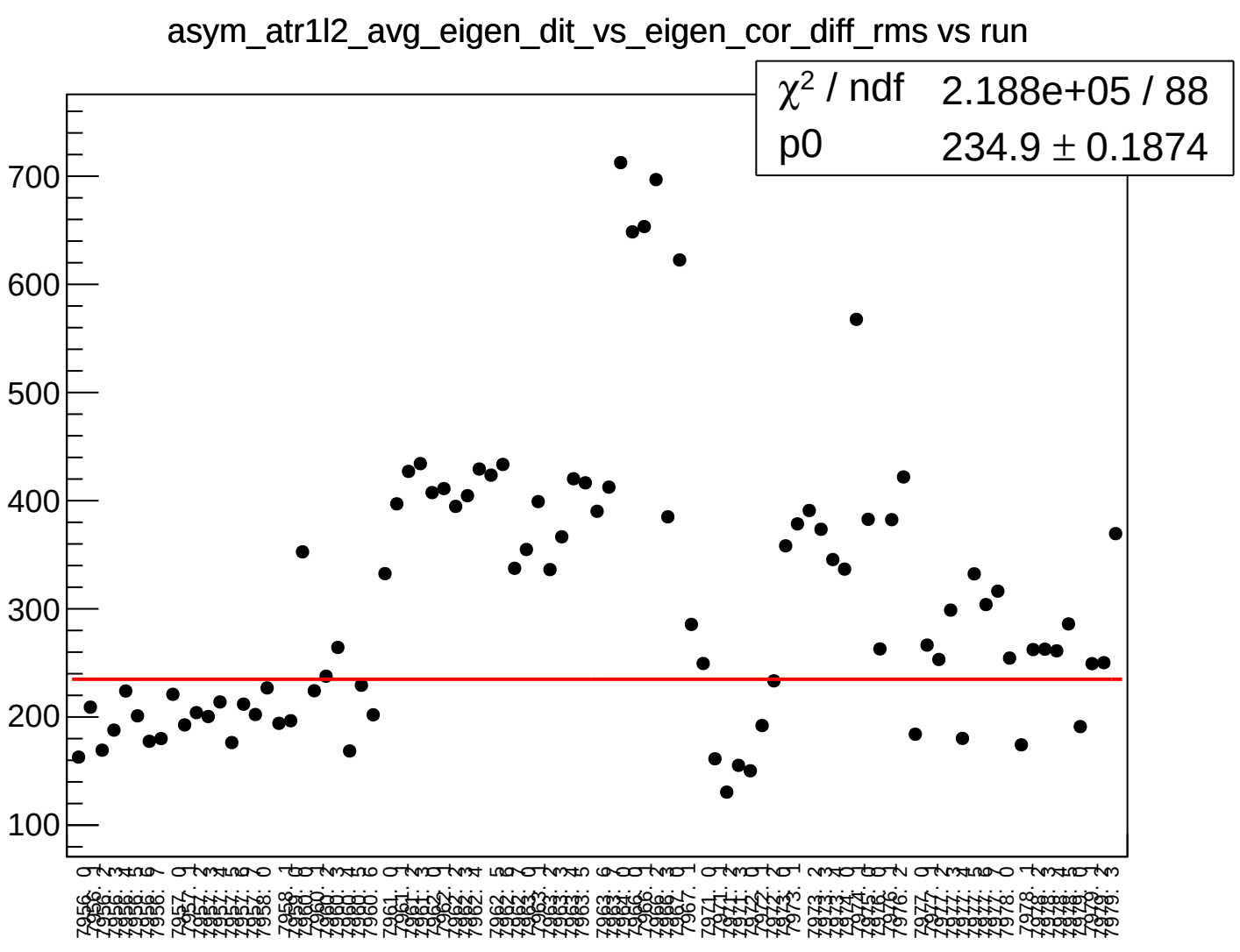

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.177e+05 / 88
p0 0.008288 ± 6.608e−06
0.016
0.014
0.012
0.01
0.008
0.006

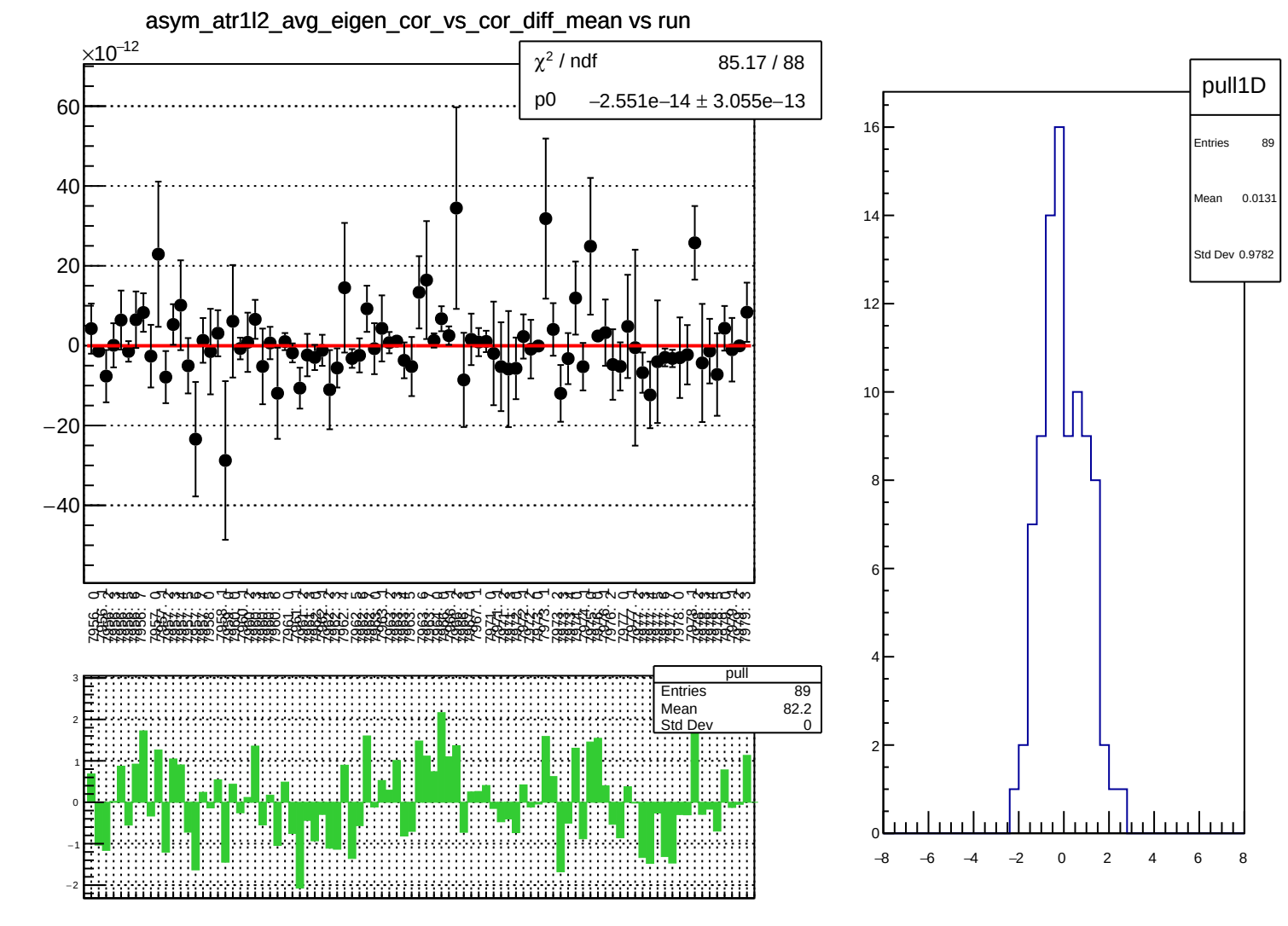

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.73 / 88
p0 −0.4515 ± 0.265
pull
Entries 89
Mean 2979
Std Dev 0
pull1D
Entries 89
Mean −0.001269
Std Dev 0.8851

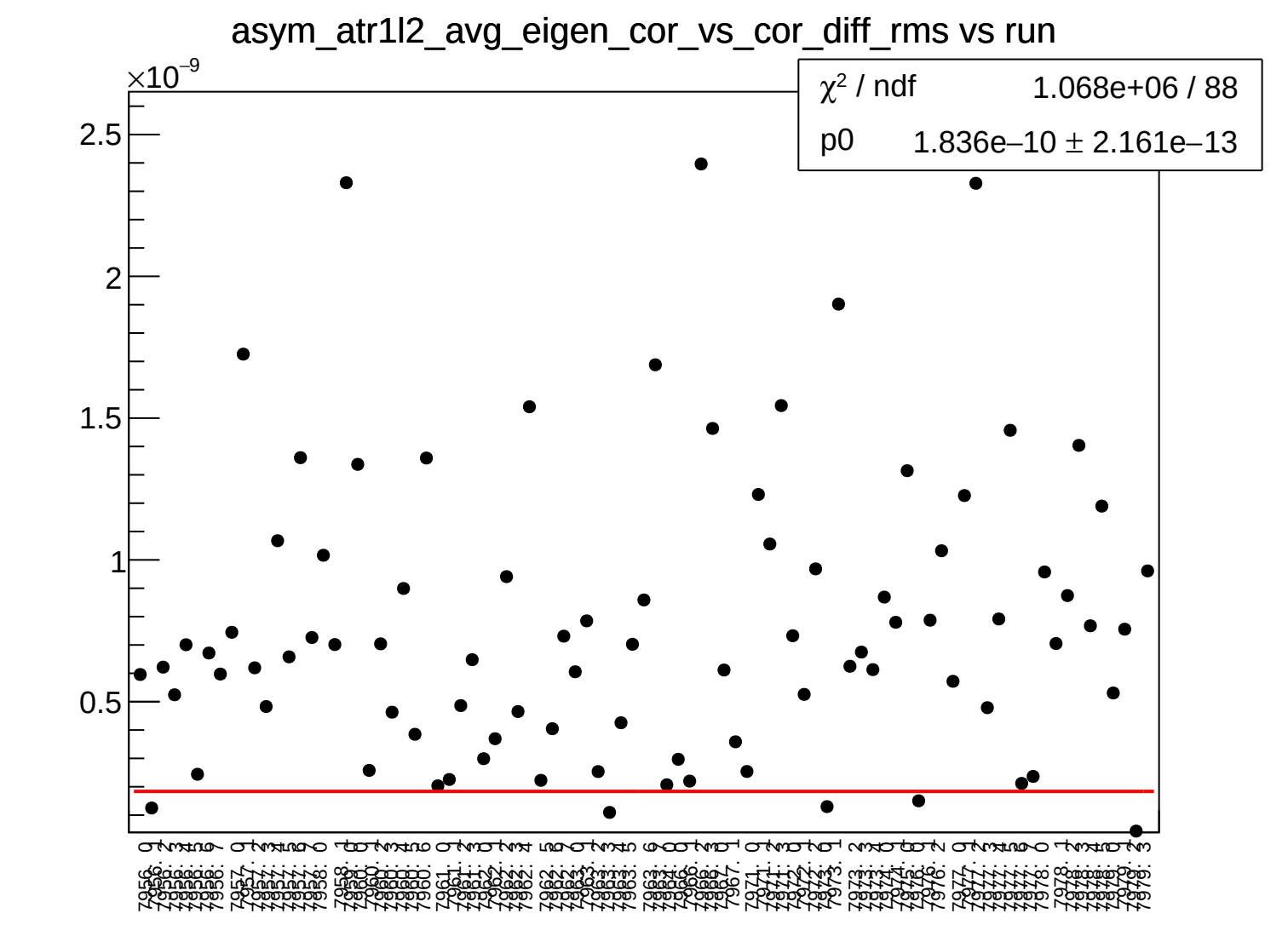

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.188e+05 / 88
p0 234.9 ± 0.1874
700
600
500
400
300
200
100

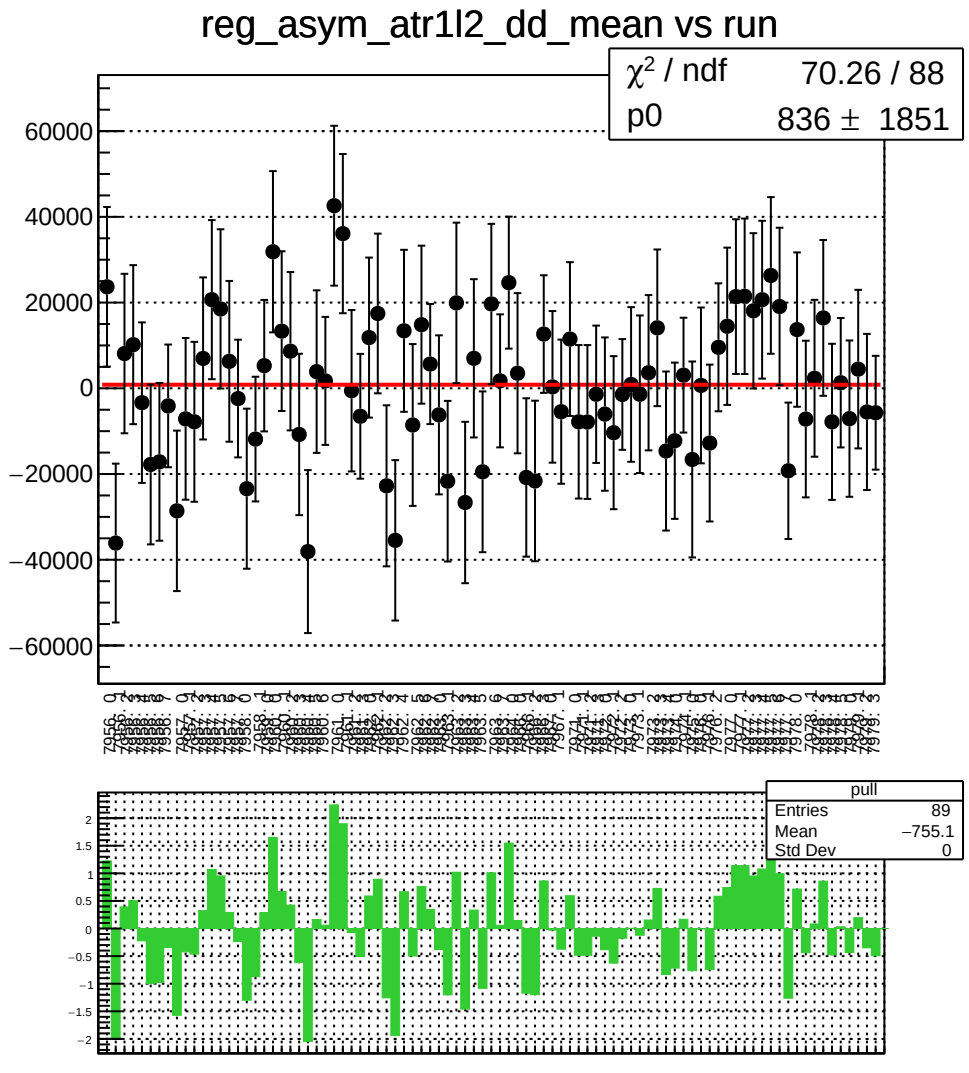

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.73 / 88
p0 −0.4515 ± 0.265
pull
Entries 89
Mean 2979
Std Dev 0

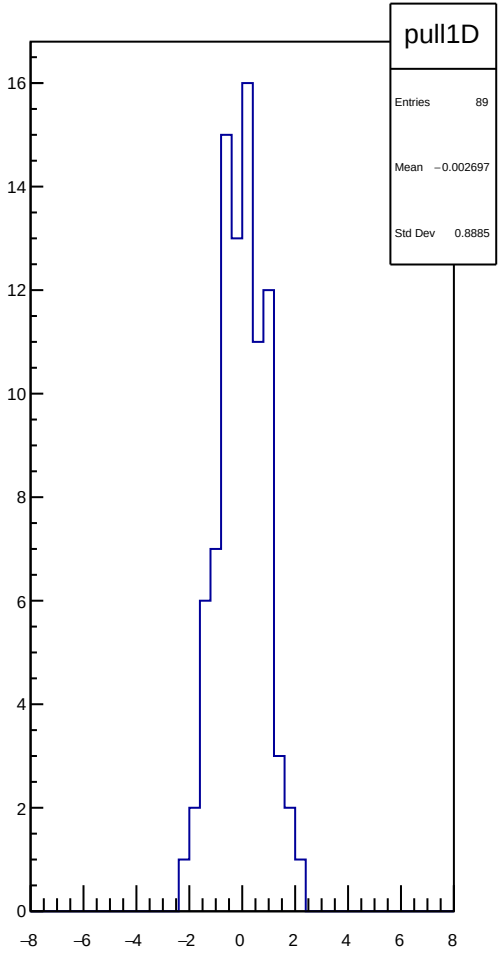

pull1D
Entries 89
Mean −0.001269
Std Dev 0.8851

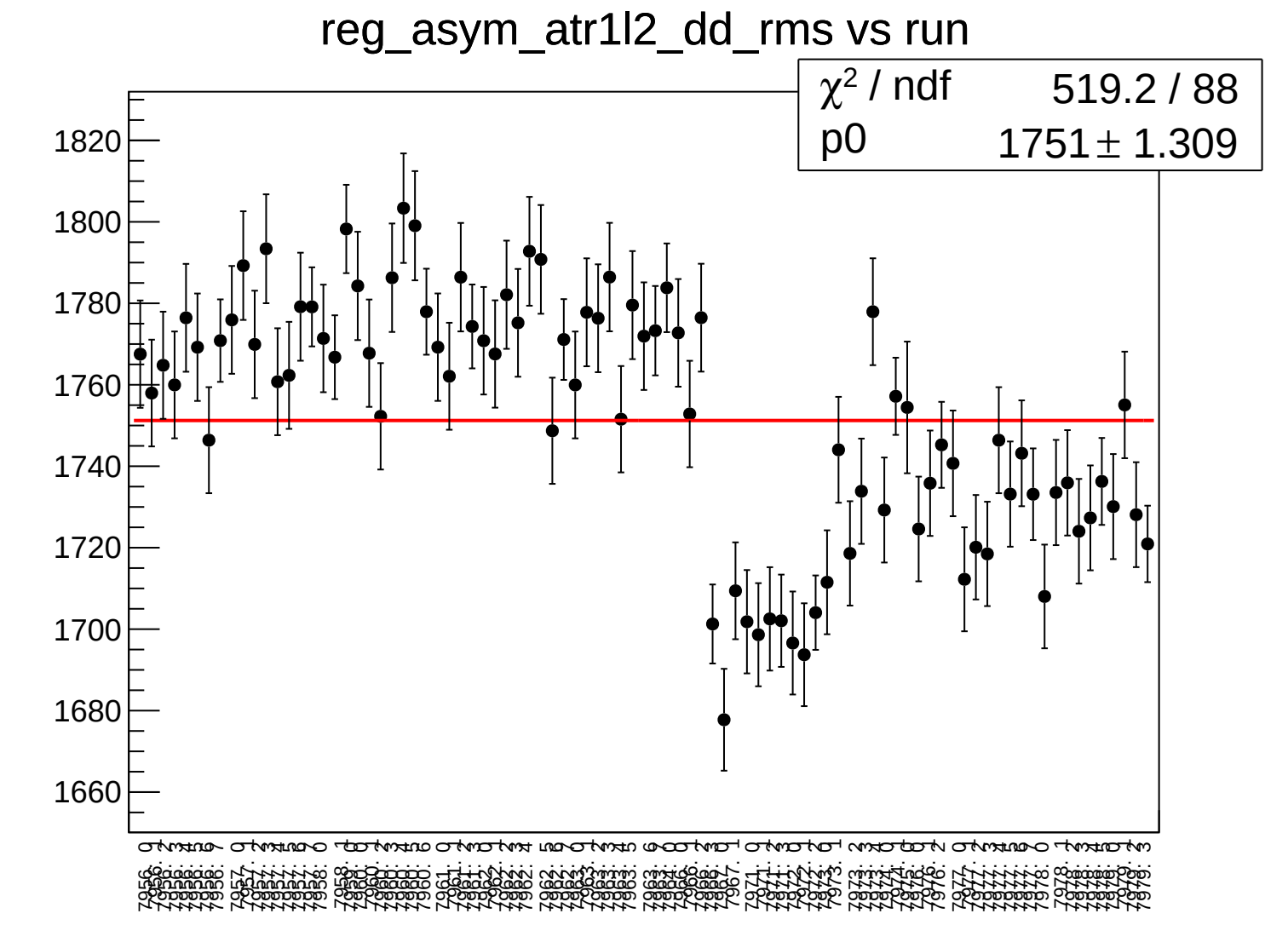

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.188e+05 / 88
p0 234.9 ± 0.1874
700
600
500
400
300
200
100

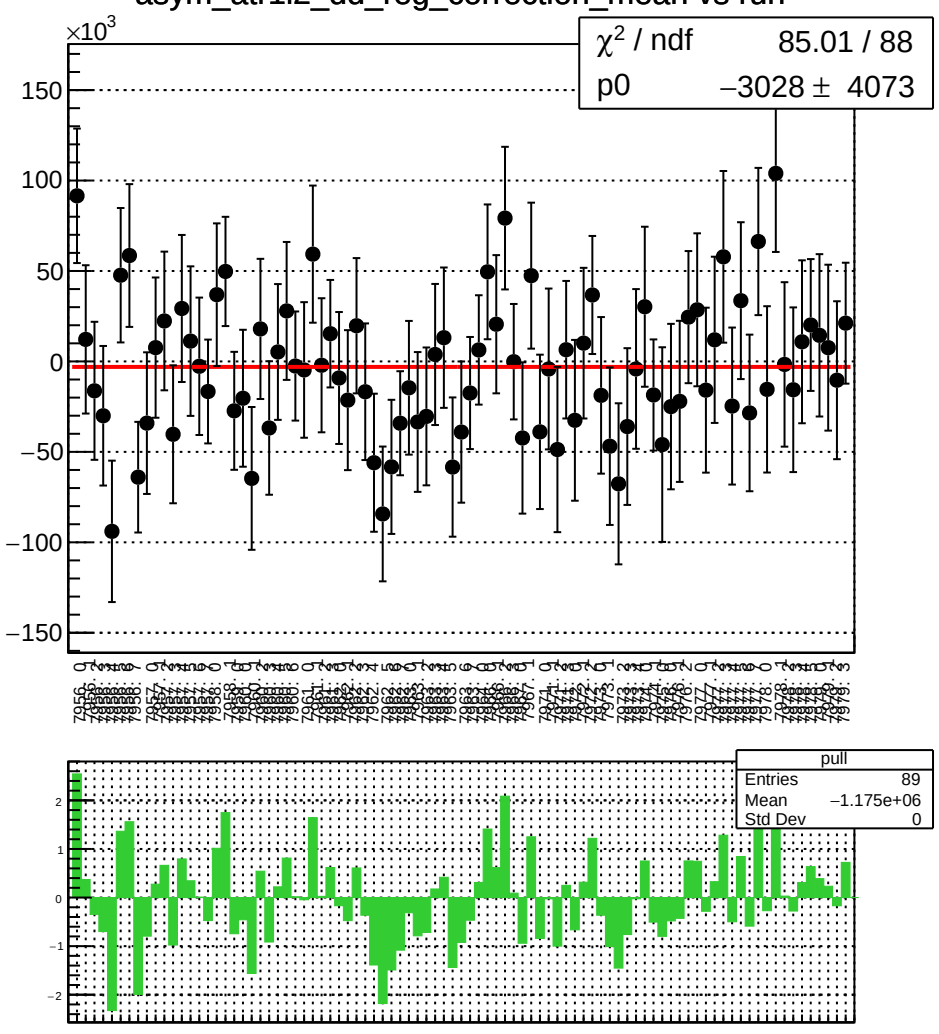

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.17 / 88
p0 −2.551e−14 ± 3.055e−13
60
40
20
0
−20
−40
pull
Entries 89
Mean 82.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.0131
Std Dev 0.9782
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

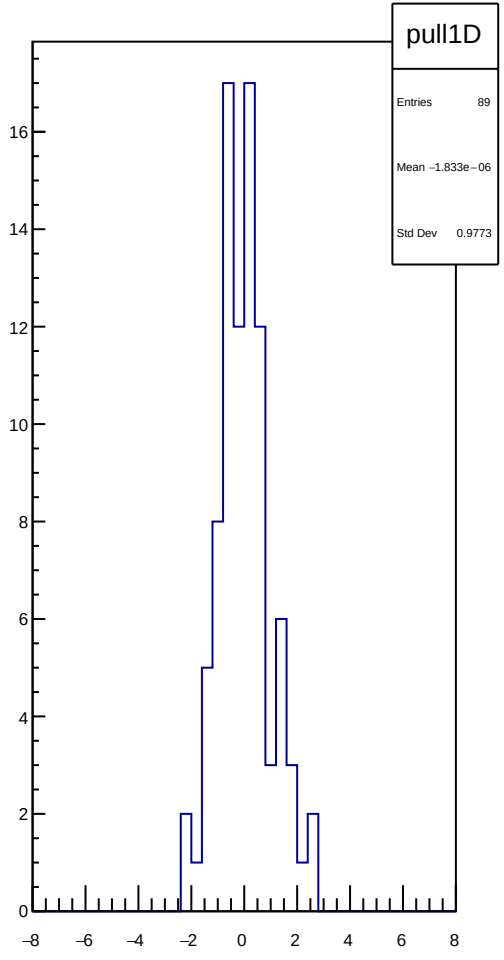

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.068e+06 / 88
p0 1.836e−10 ± 2.161e−13
2.5
2
1.5
1
0.5

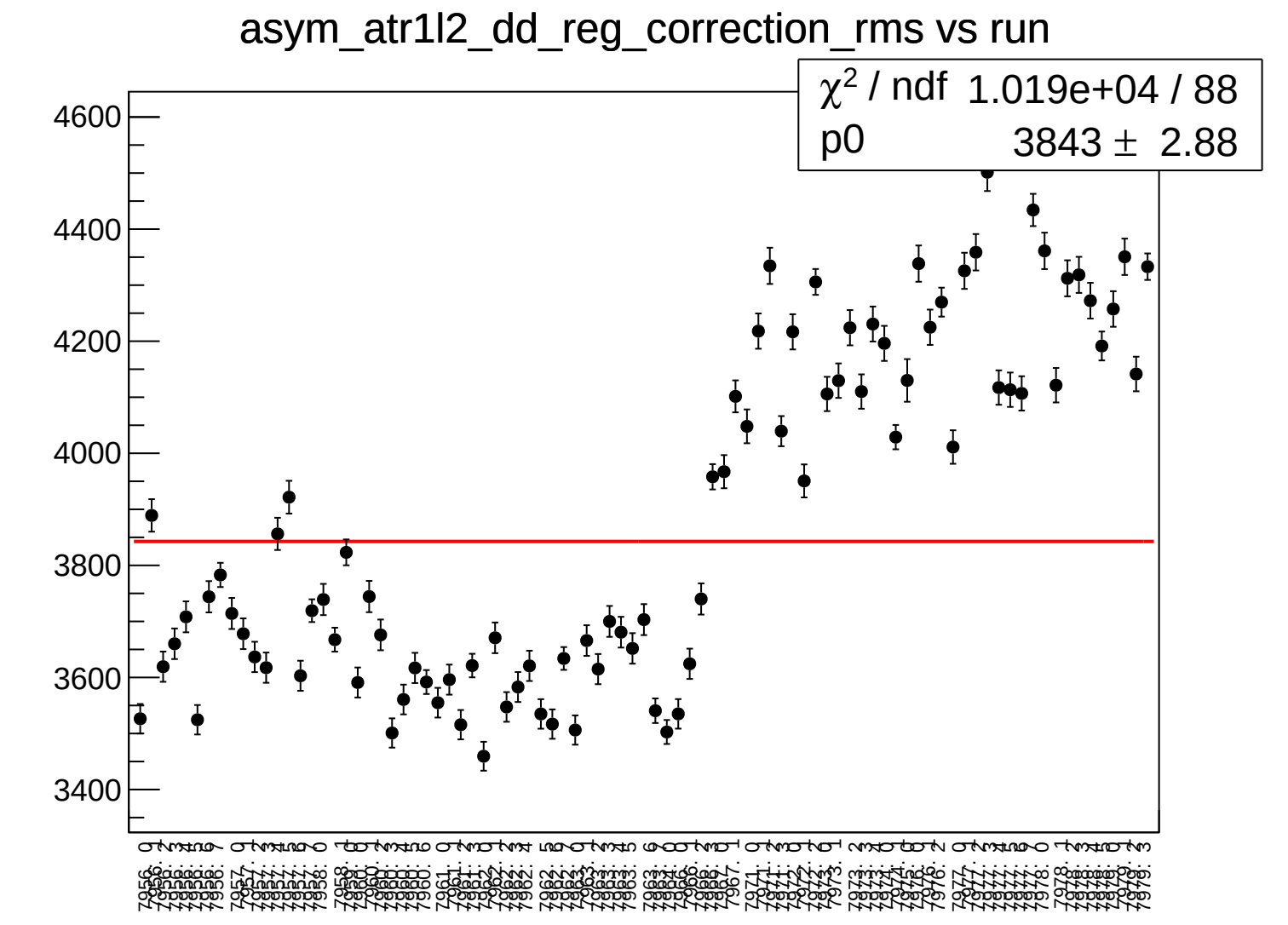

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 70.26 / 88
p0 836 ± 1851
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −755.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

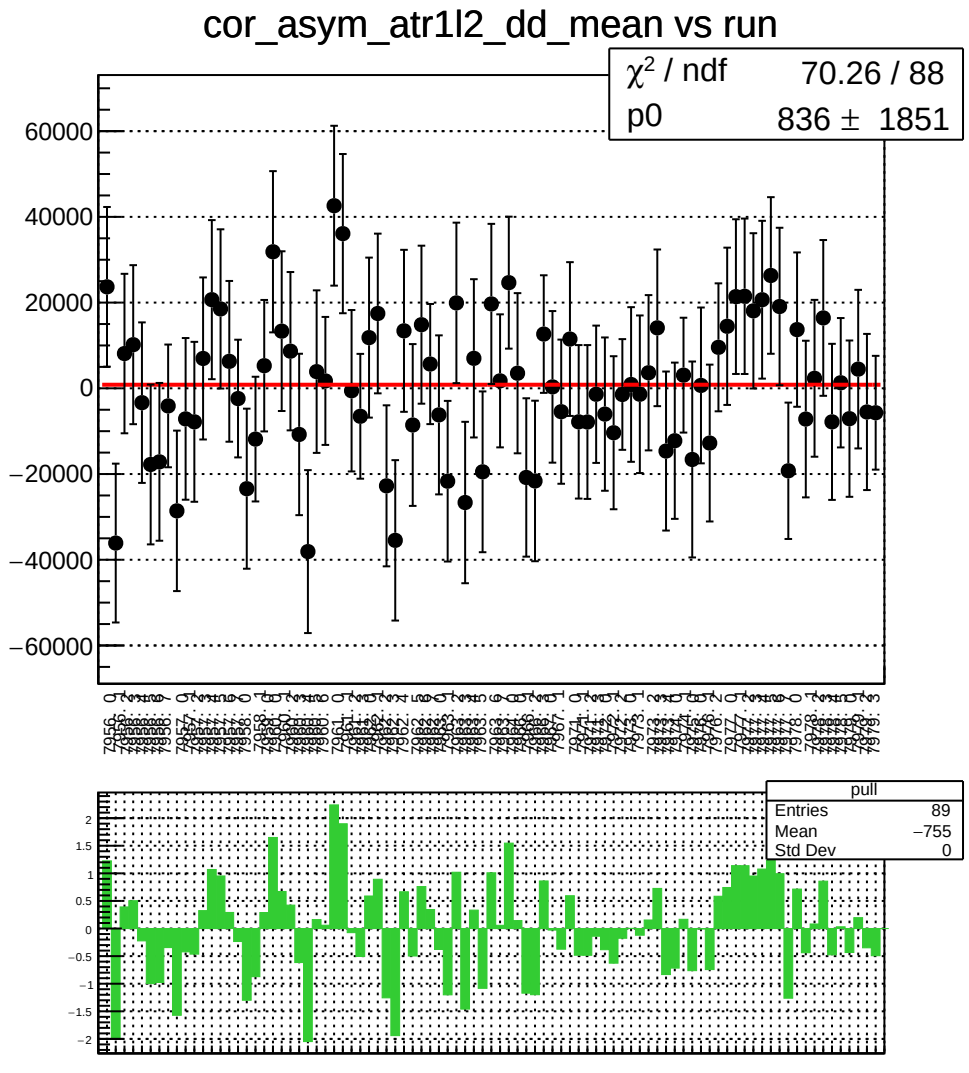

pull1D
Entries 89
Mean −0.002697
Std Dev 0.8885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

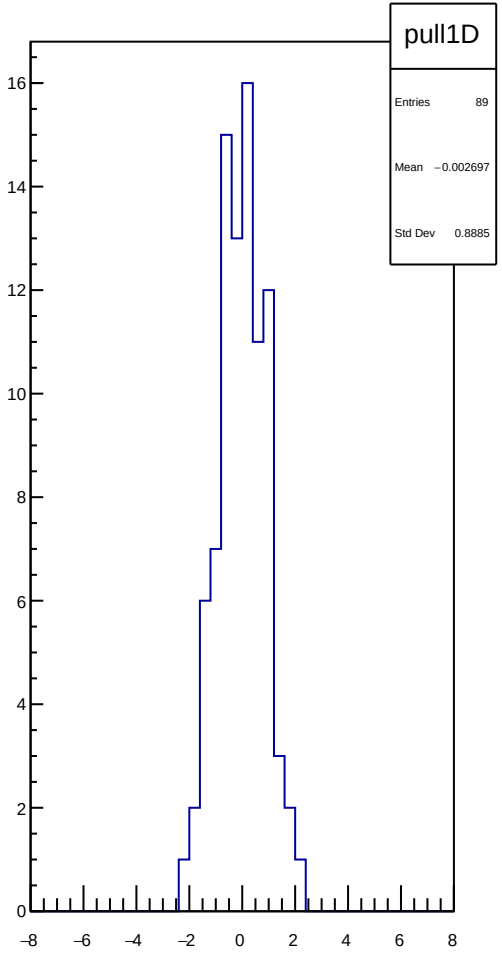

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 519.2 / 88
p0 1751 ± 1.309
1820
1800
1780
1760
1740
1720
1700
1680
1660

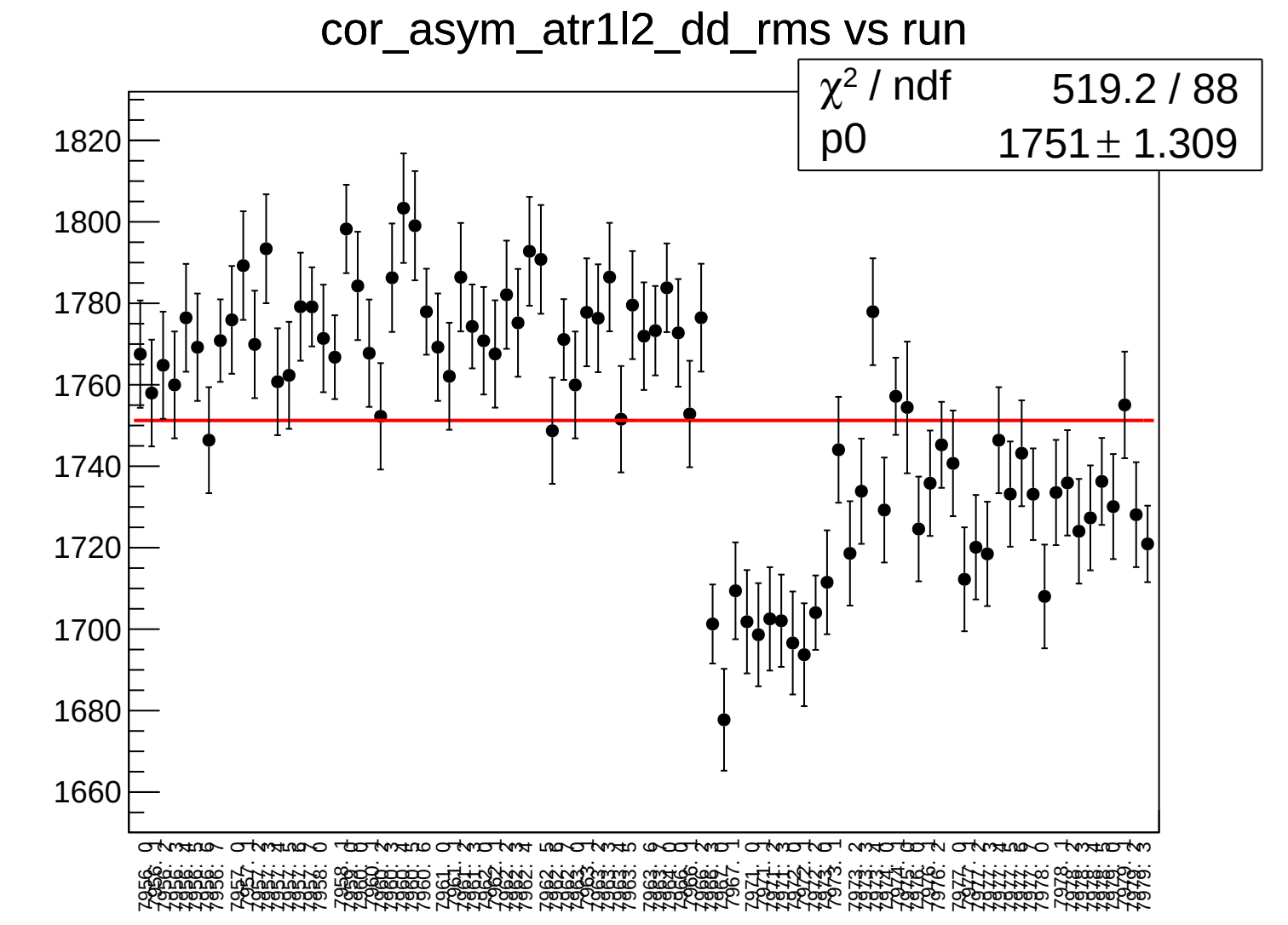

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.01 / 88
p0 −3028 ± 4073
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −1.175e+06
Std Dev 0
2
1
0
−1
−2

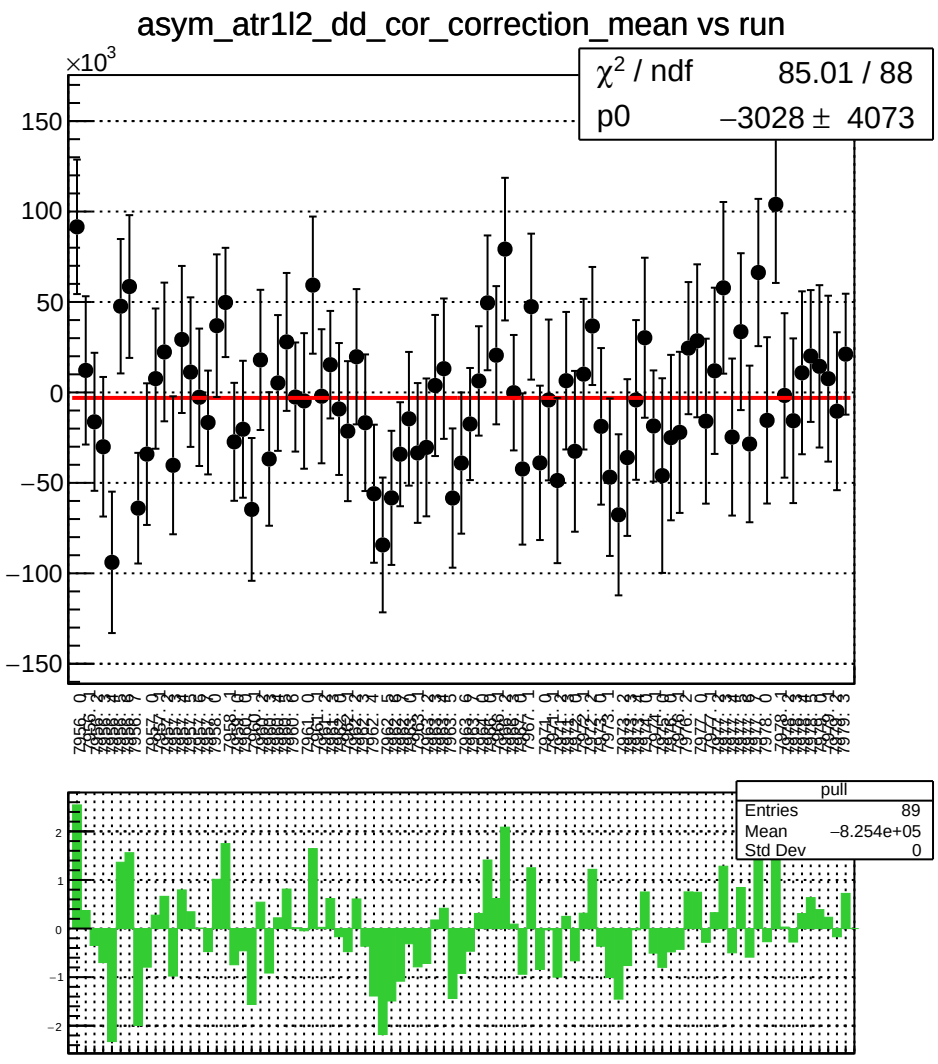

pull1D
Entries 89
Mean −1.833e−06
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

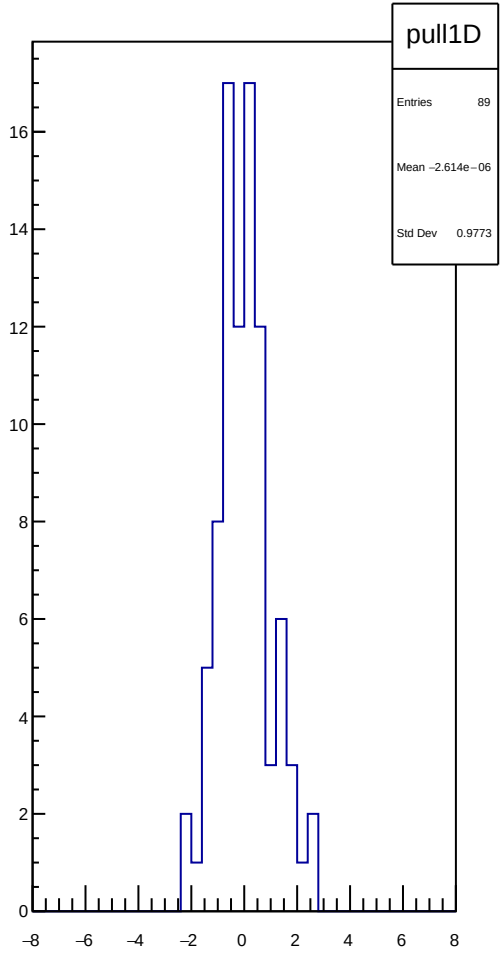

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.019e+04 / 88
p0 3843 ± 2.88
4600
4400
4200
4000
3800
3600
3400


cor_asym_atr1l2_dd_mean vs run
χ² / ndf 70.26 / 88
p0 836 ± 1851
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −755
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 89
Mean −0.002697
Std Dev 0.8885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1l2_dd_rms vs run
χ² / ndf 519.2 / 88
p0 1751 ± 1.309
1820
1800
1780
1760
1740
1720
1700
1680
1660


asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 85.01 / 88
p0 −3028 ± 4073
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −8.254e+05
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −2.614e−06
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
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−4
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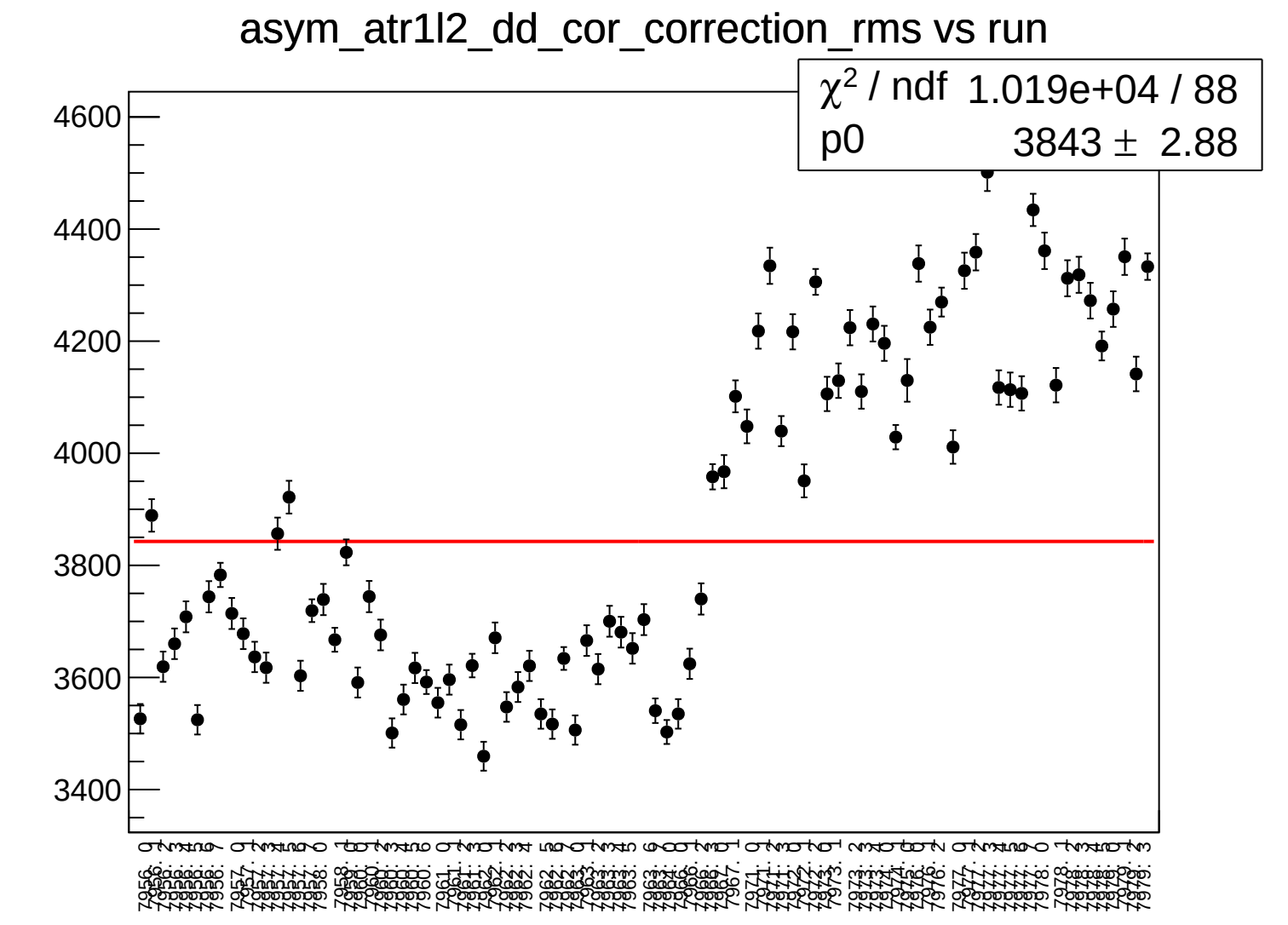
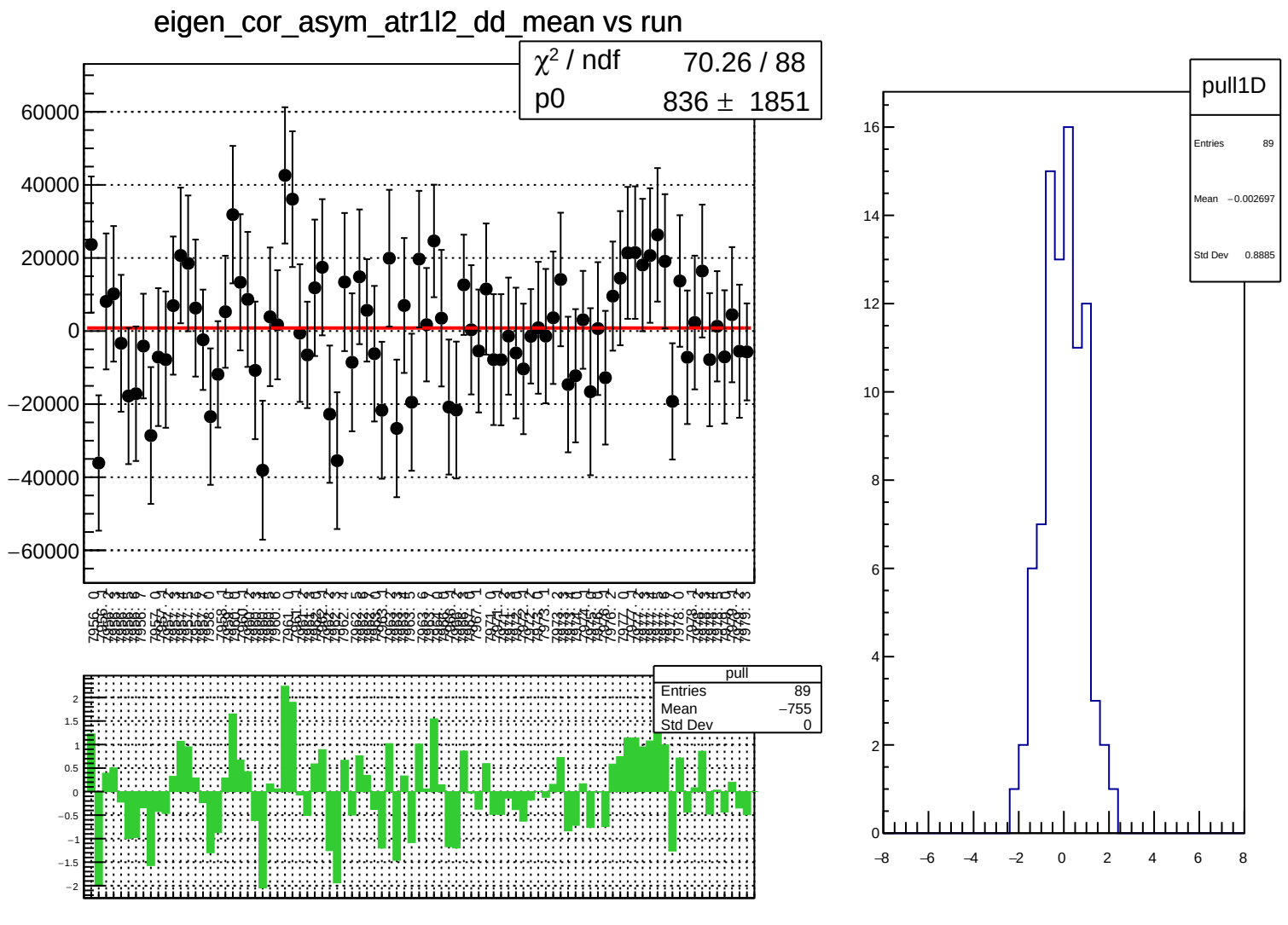
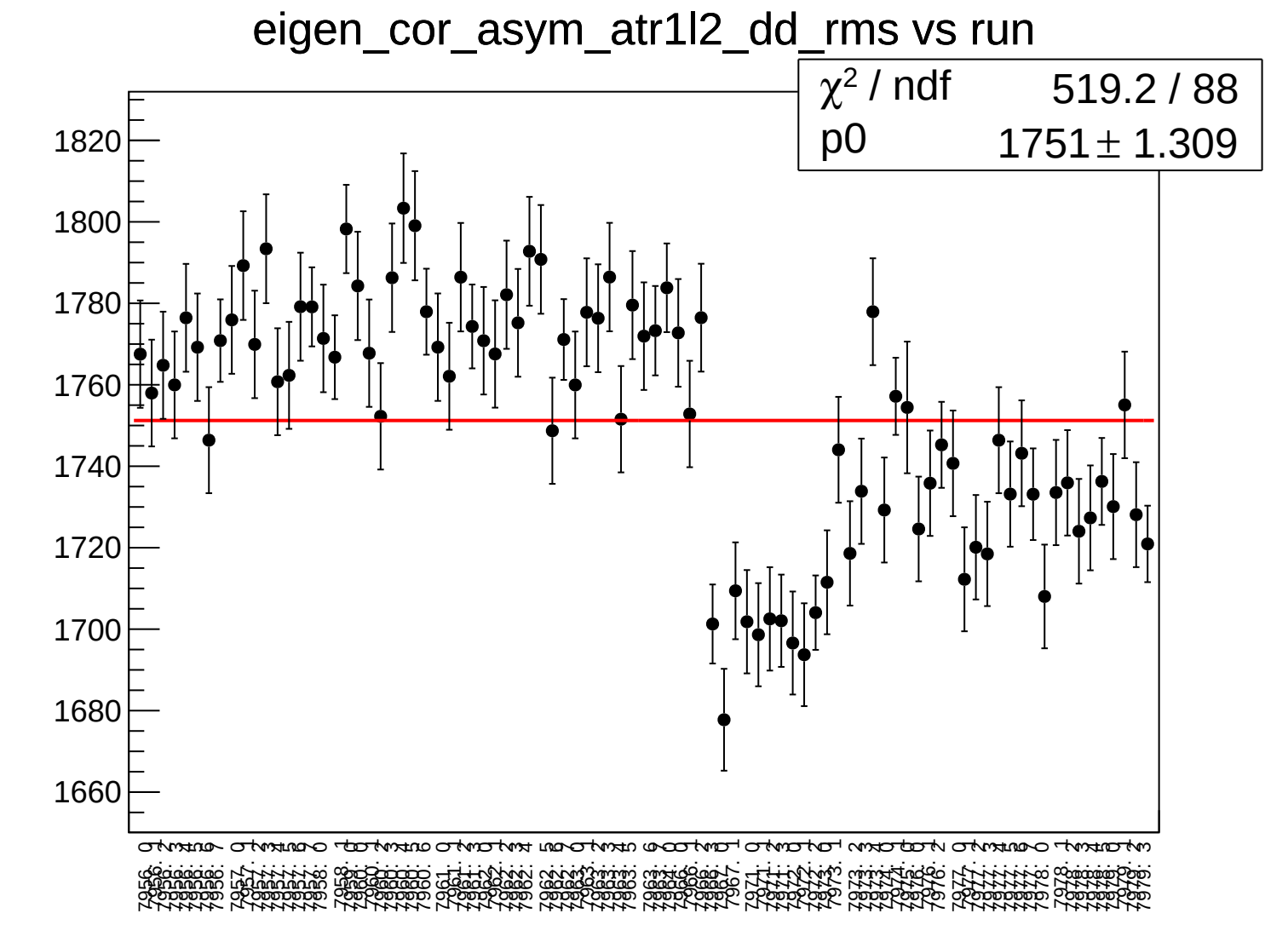
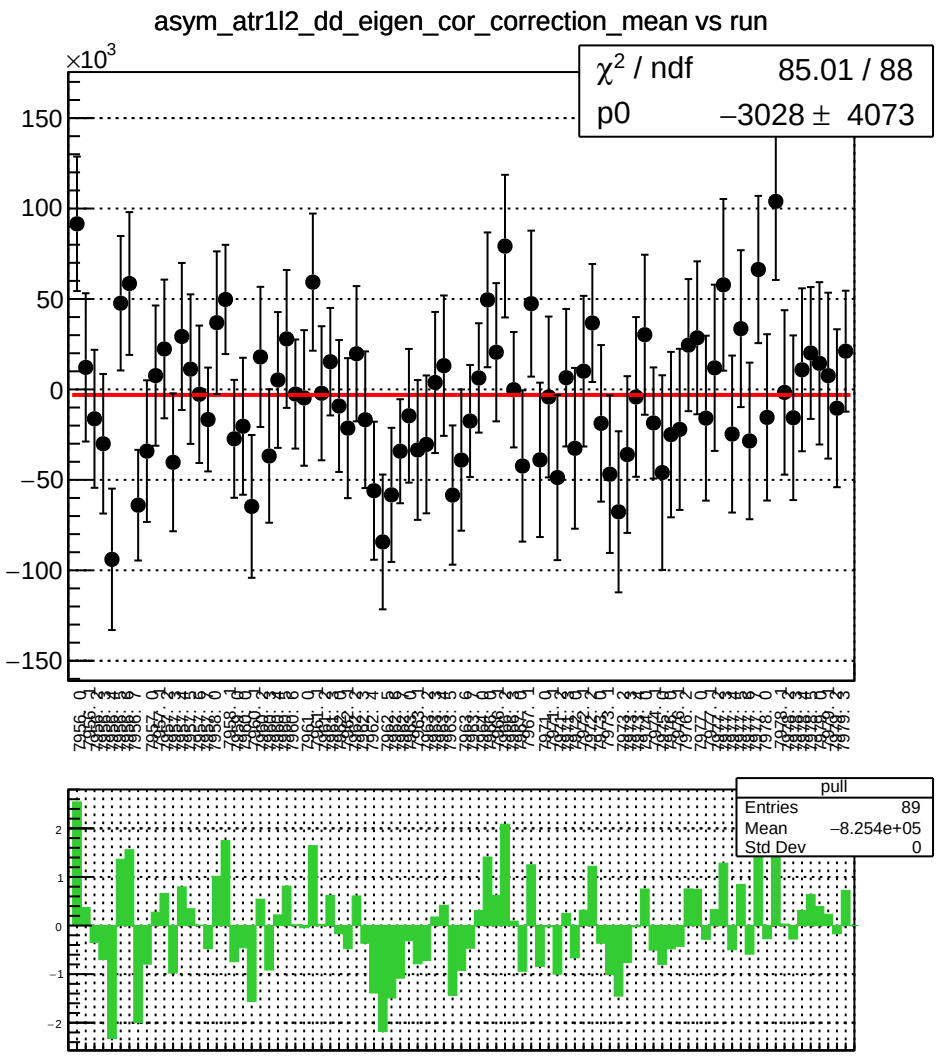
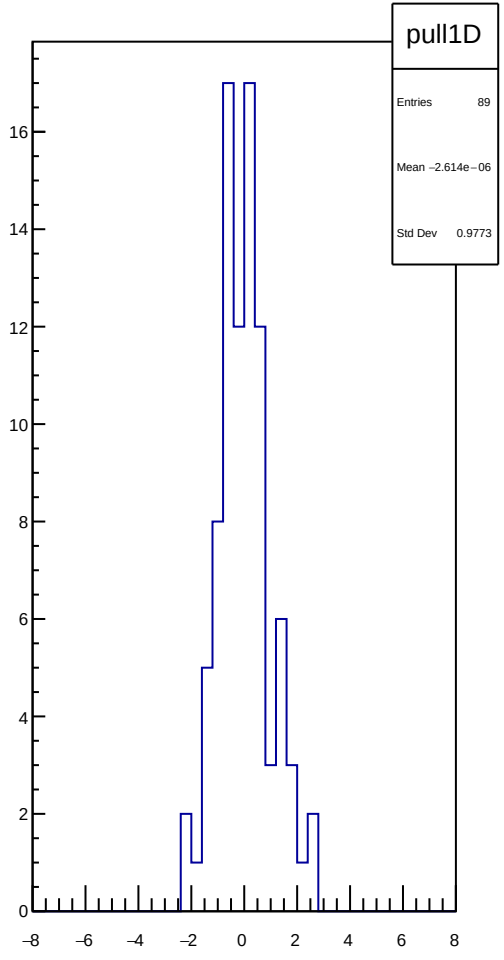
0
2
4
6
8


asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.019e+04 / 88
p0 3843 ± 2.88
4600
4400
4200
4000
3800
3600
3400


eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 70.26 / 88
p0 836 ± 1851
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −755
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.002697
Std Dev 0.8885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 519.2 / 88
p0 1751 ± 1.309
1820
1800
1780
1760
1740
1720
1700
1680
1660


asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.01 / 88
p0 −3028 ± 4073
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −8.254e+05
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −2.614e−06
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
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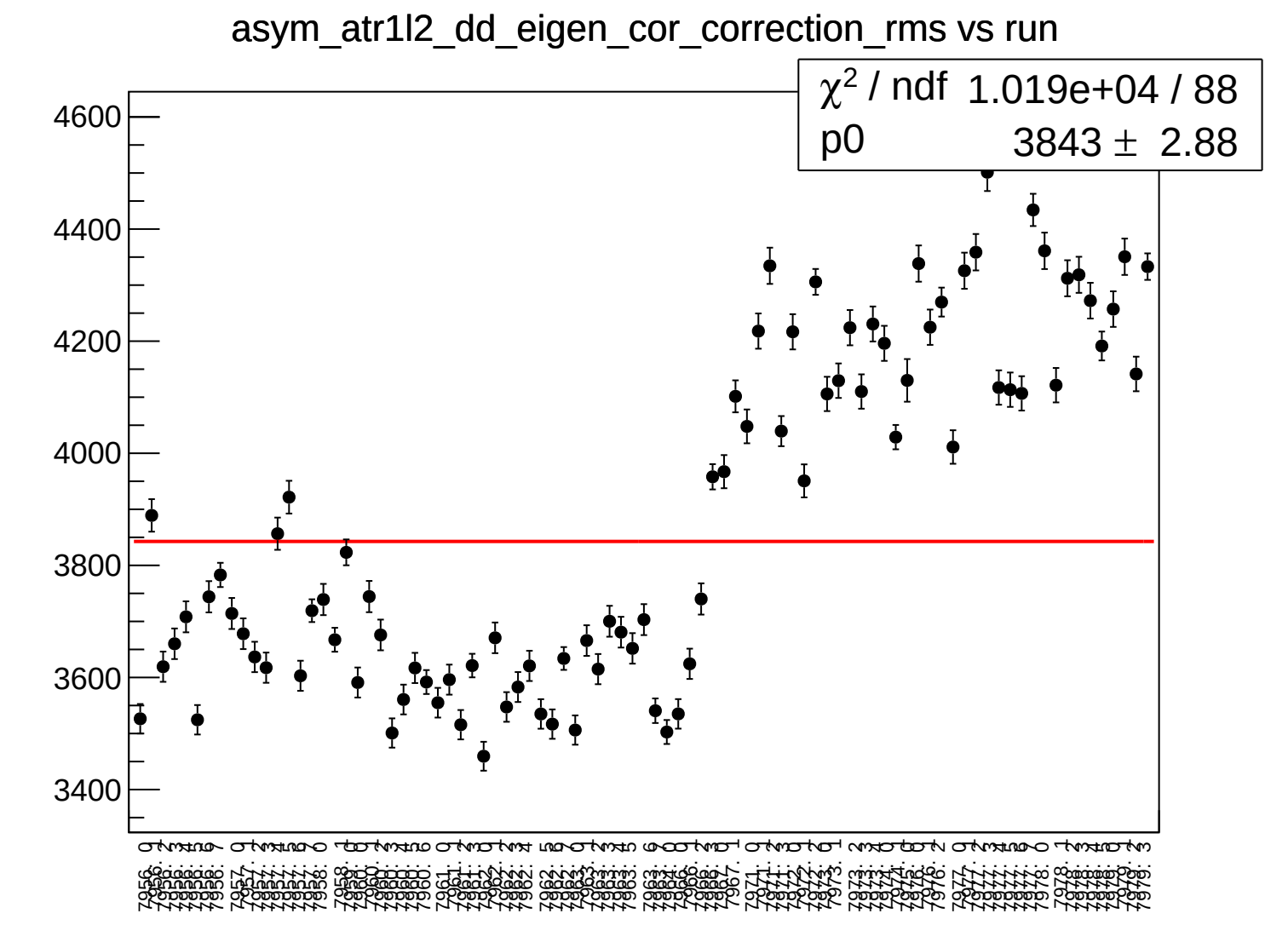
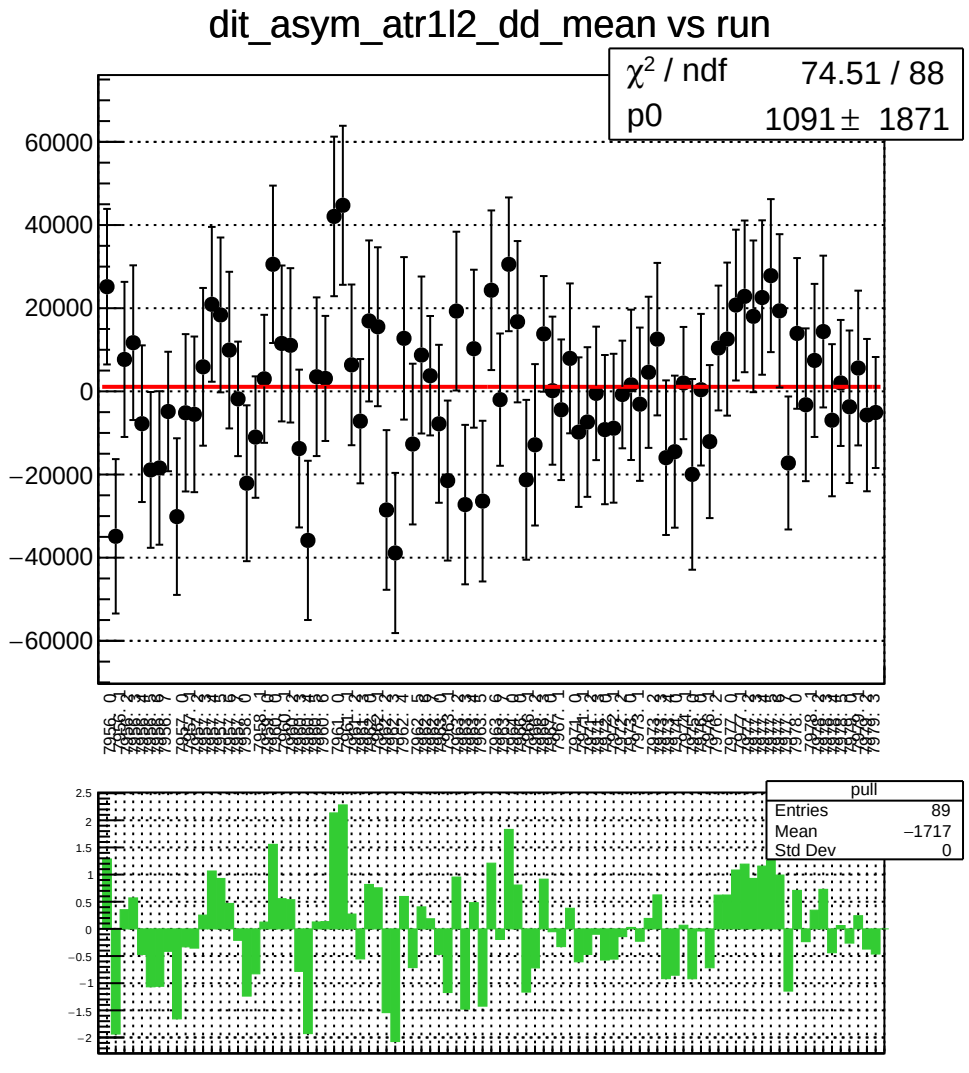
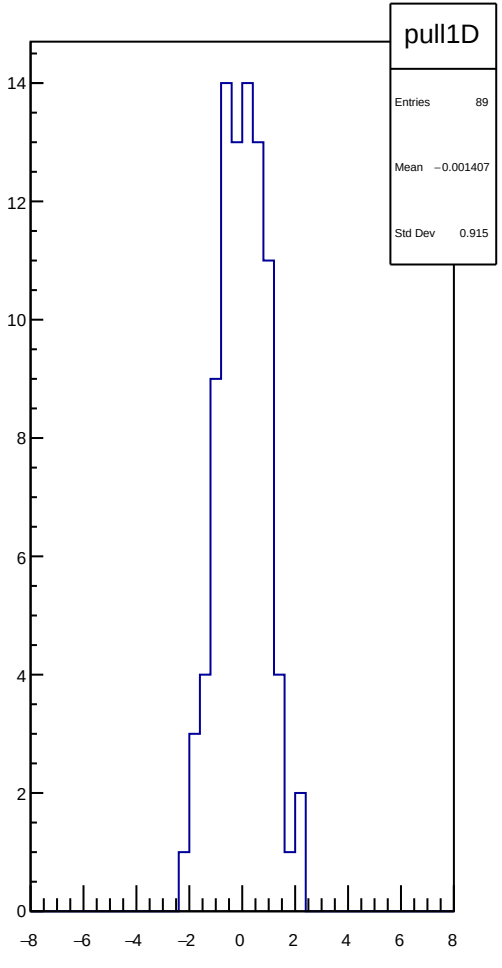
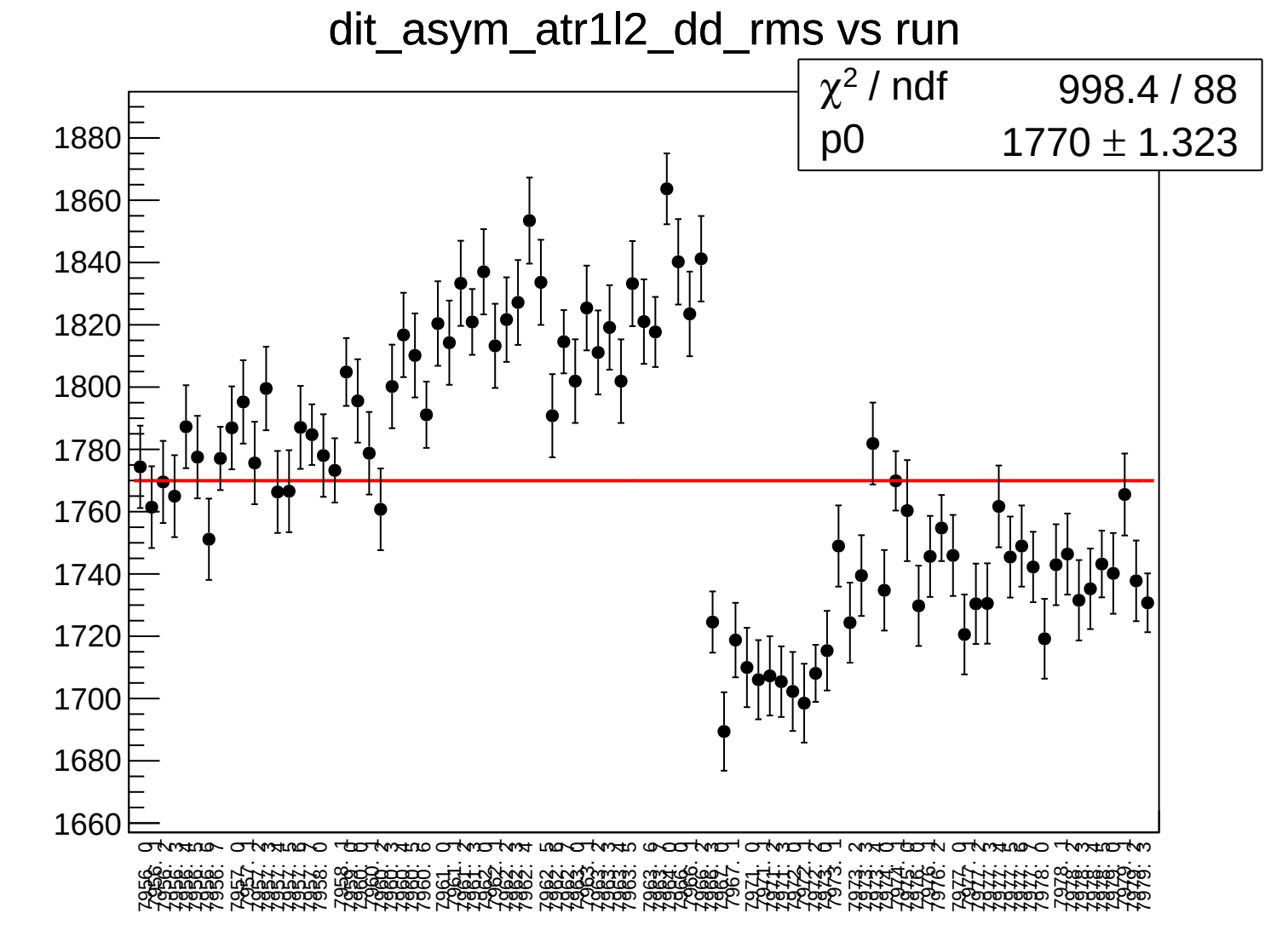
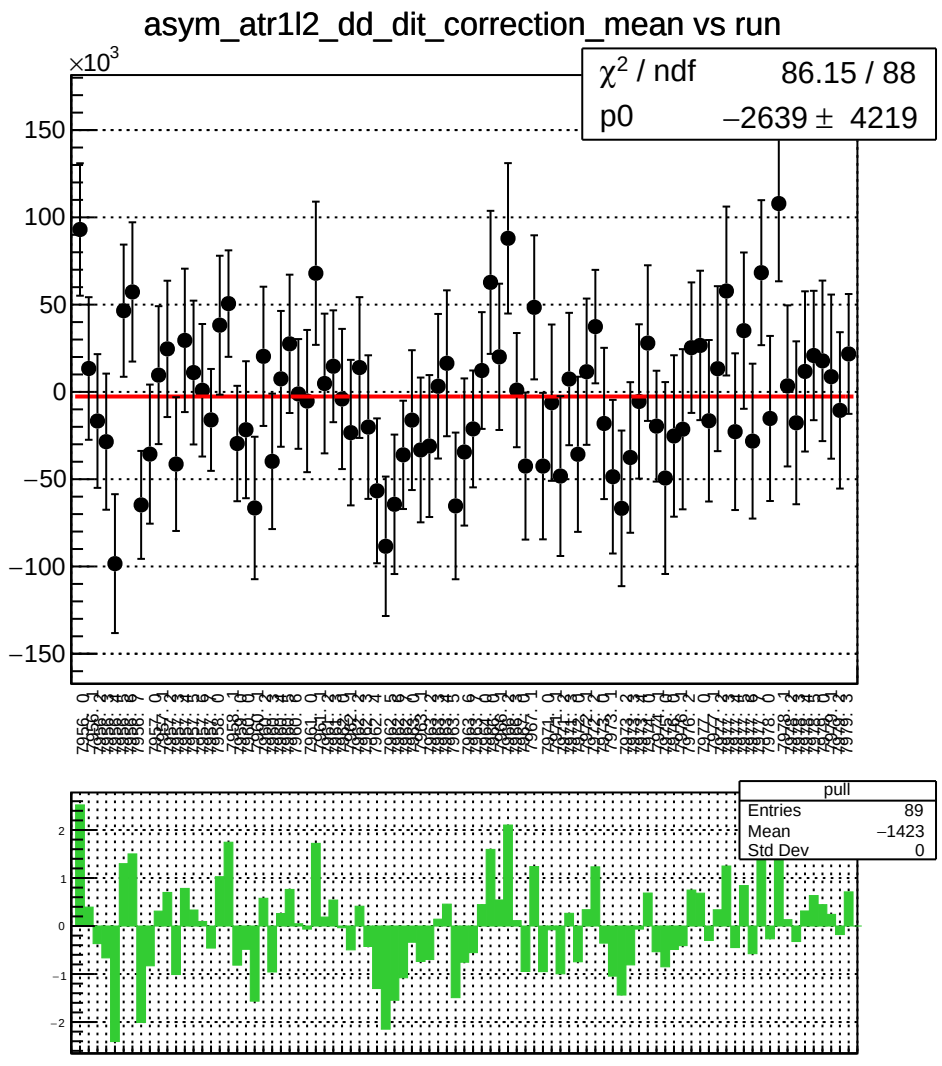
2
4
6
8

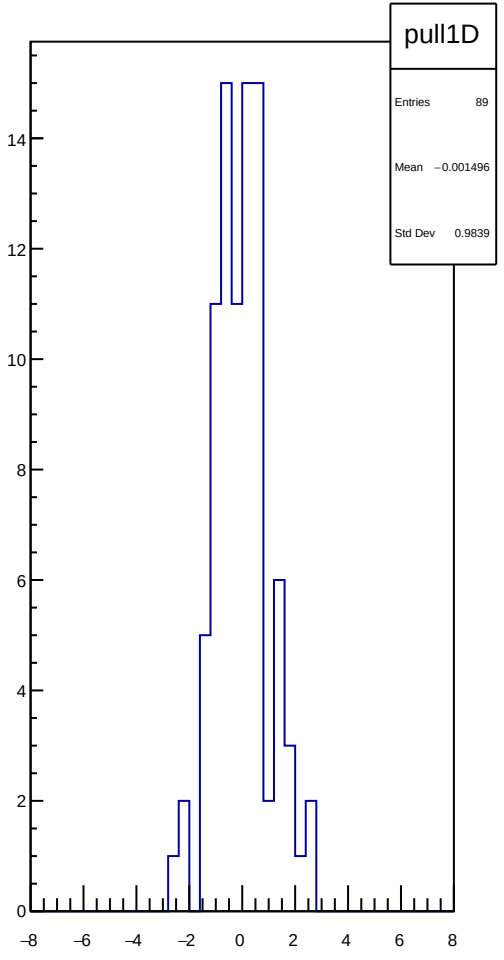

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.019e+04 / 88
p0 3843 ± 2.88
4600
4400
4200
4000
3800
3600
3400

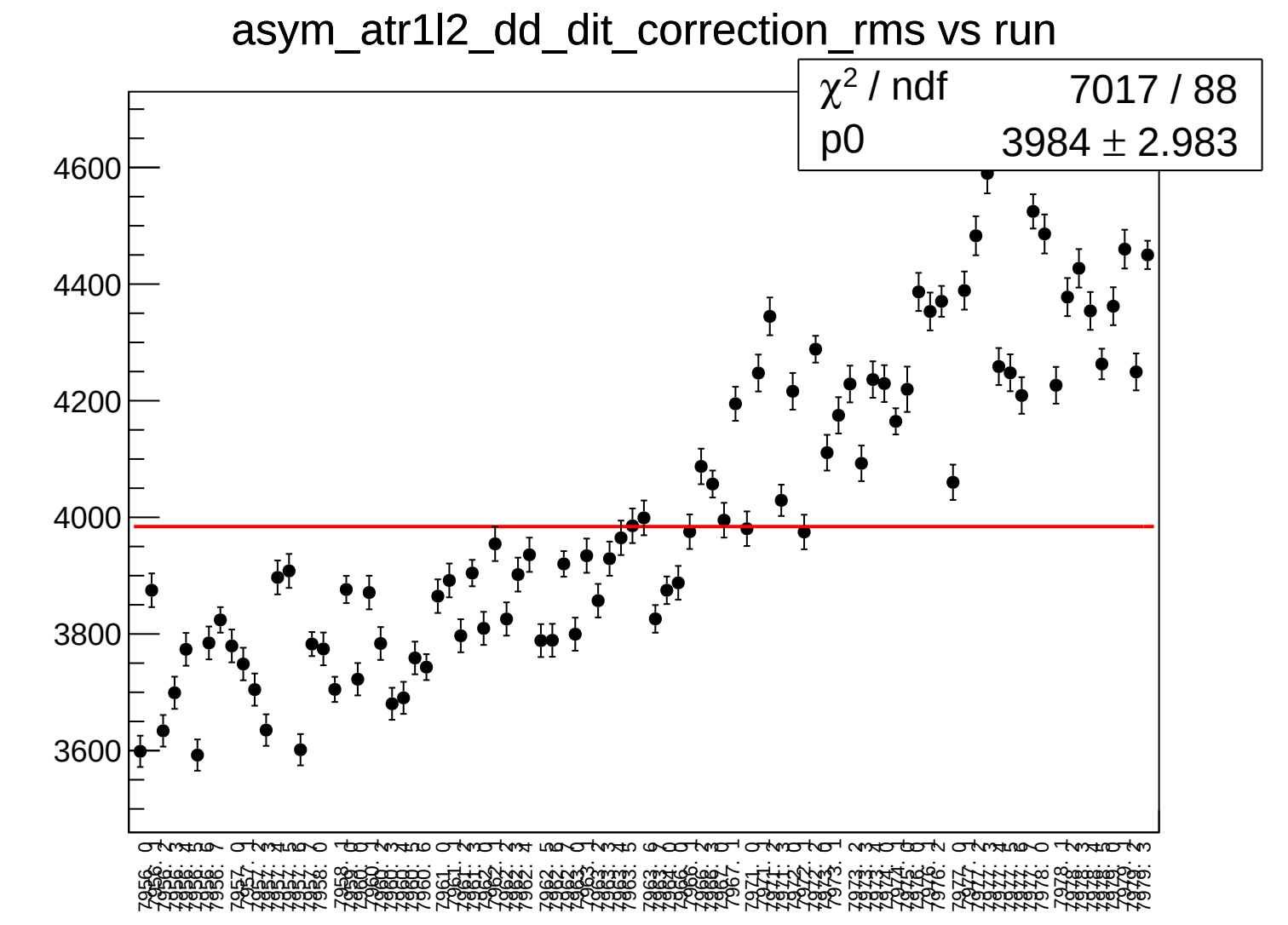

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 74.51 / 88
p0 1091 ± 1871
pull
Entries 89
Mean −1717
Std Dev 0

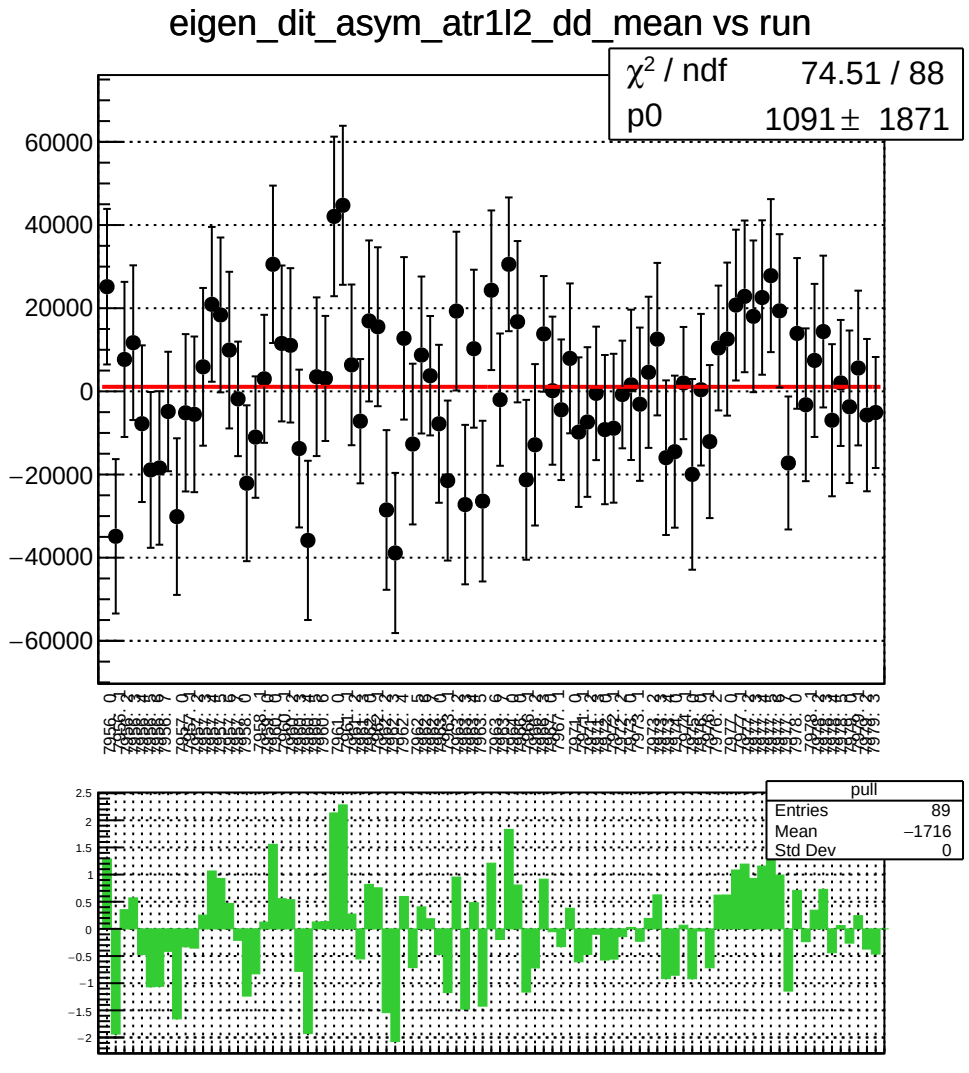

pull1D
Entries 89
Mean −0.001407
Std Dev 0.915

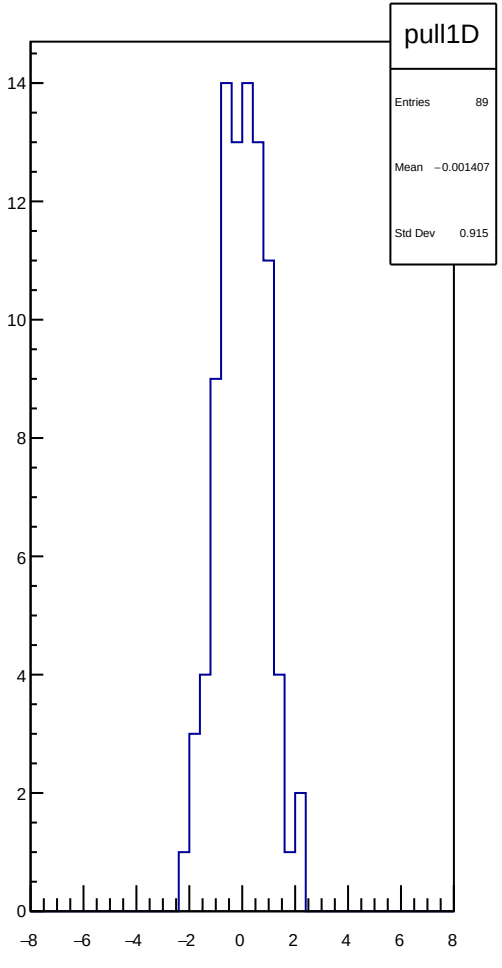

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 998.4 / 88
p0 1770 ± 1.323
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

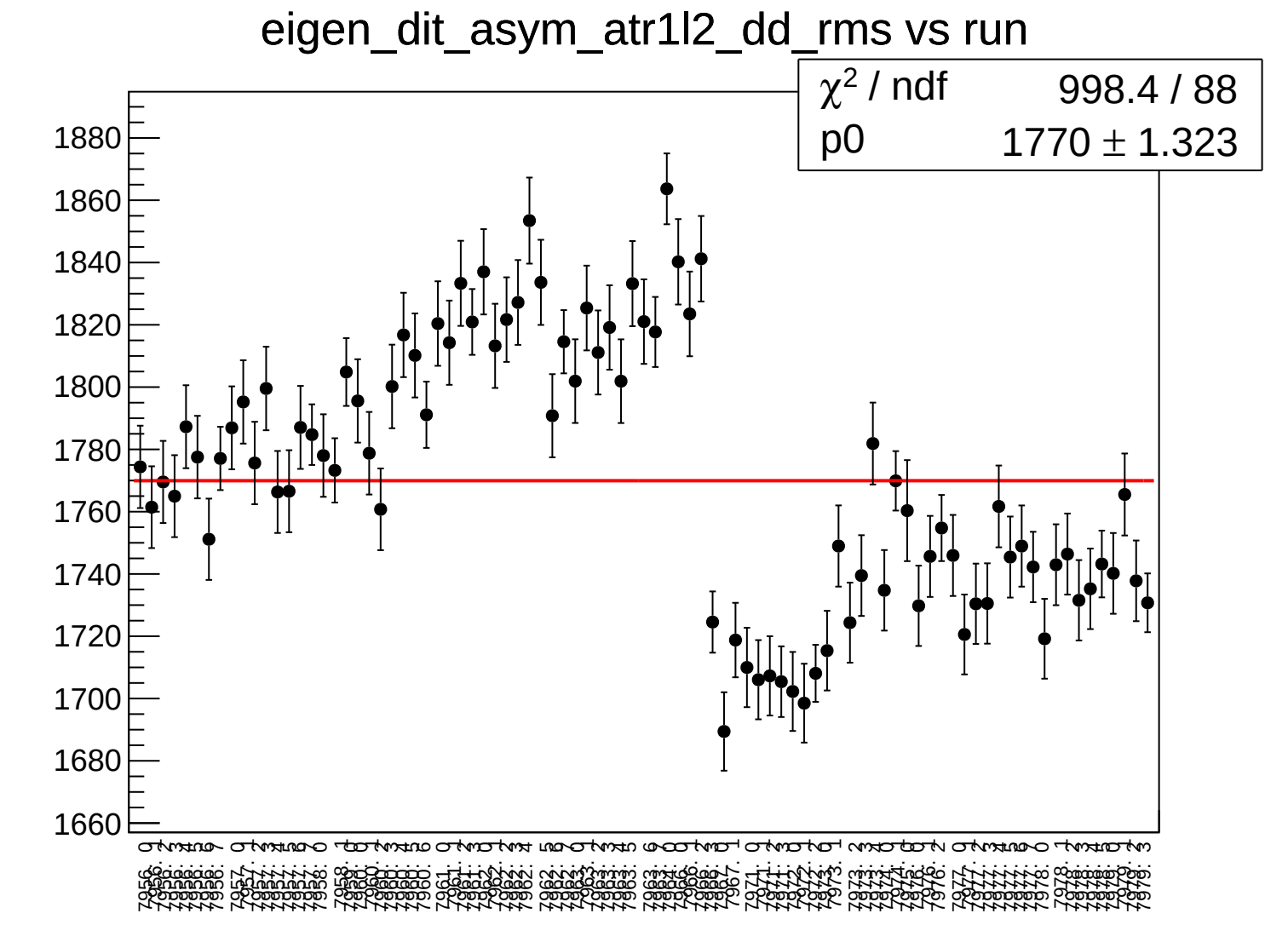

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.15 / 88
p0 −2639 ± 4219
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −1423
Std Dev 0
2
1
0
−1
−2

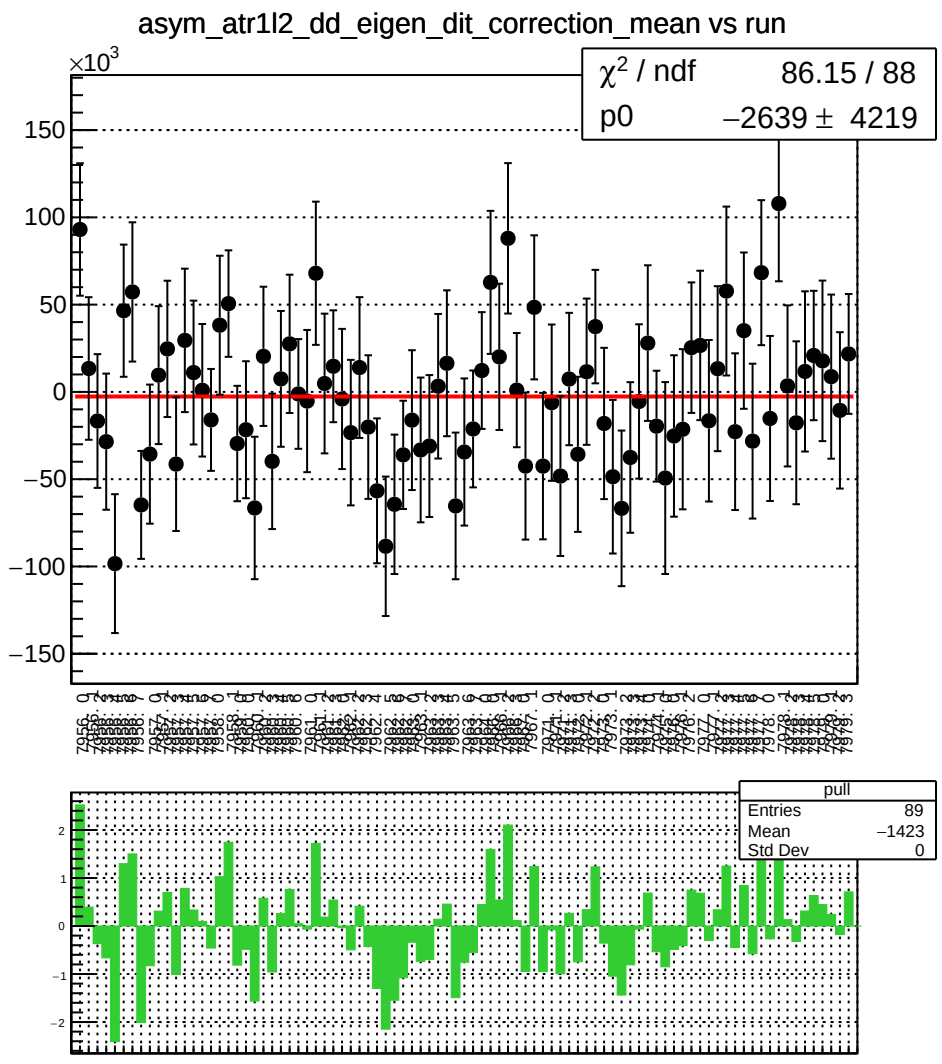

pull1D
Entries 89
Mean −0.001496
Std Dev 0.9839
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

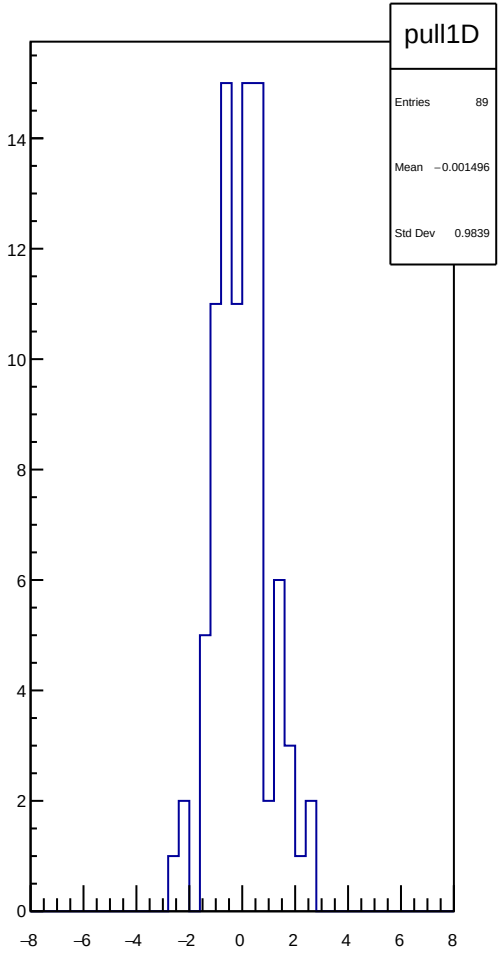

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 7017 / 88
p0 3984 ± 2.983
4600
4400
4200
4000
3800
3600

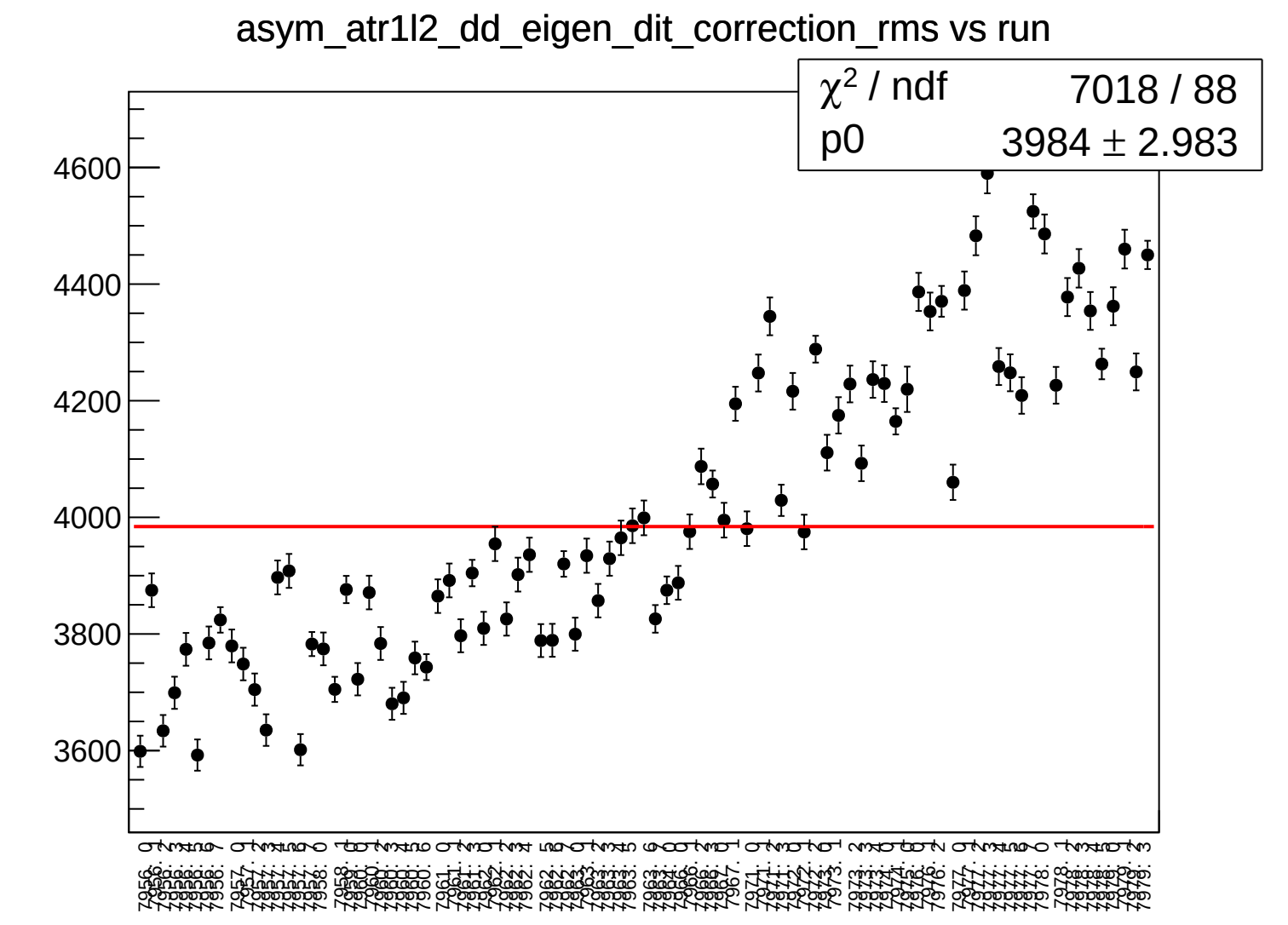

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 74.51 / 88
p0 1091 ± 1871
pull
Entries 89
Mean −1716
Std Dev 0

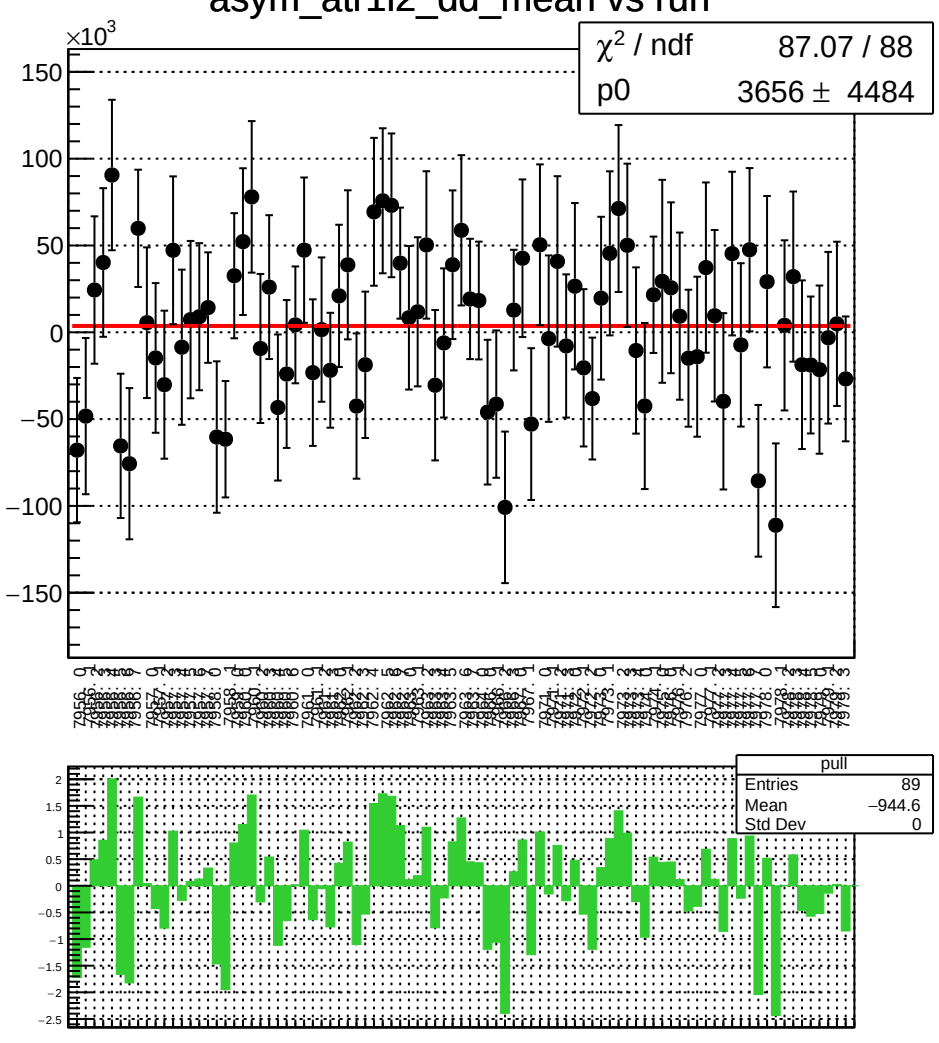

pull1D
Entries 89
Mean −0.001407
Std Dev 0.915

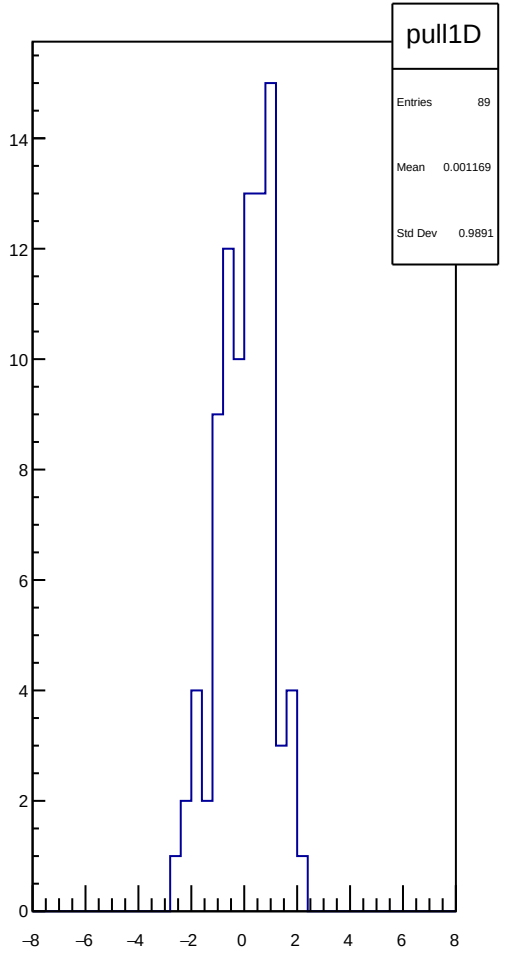

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 998.4 / 88
p0 1770 ± 1.323
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

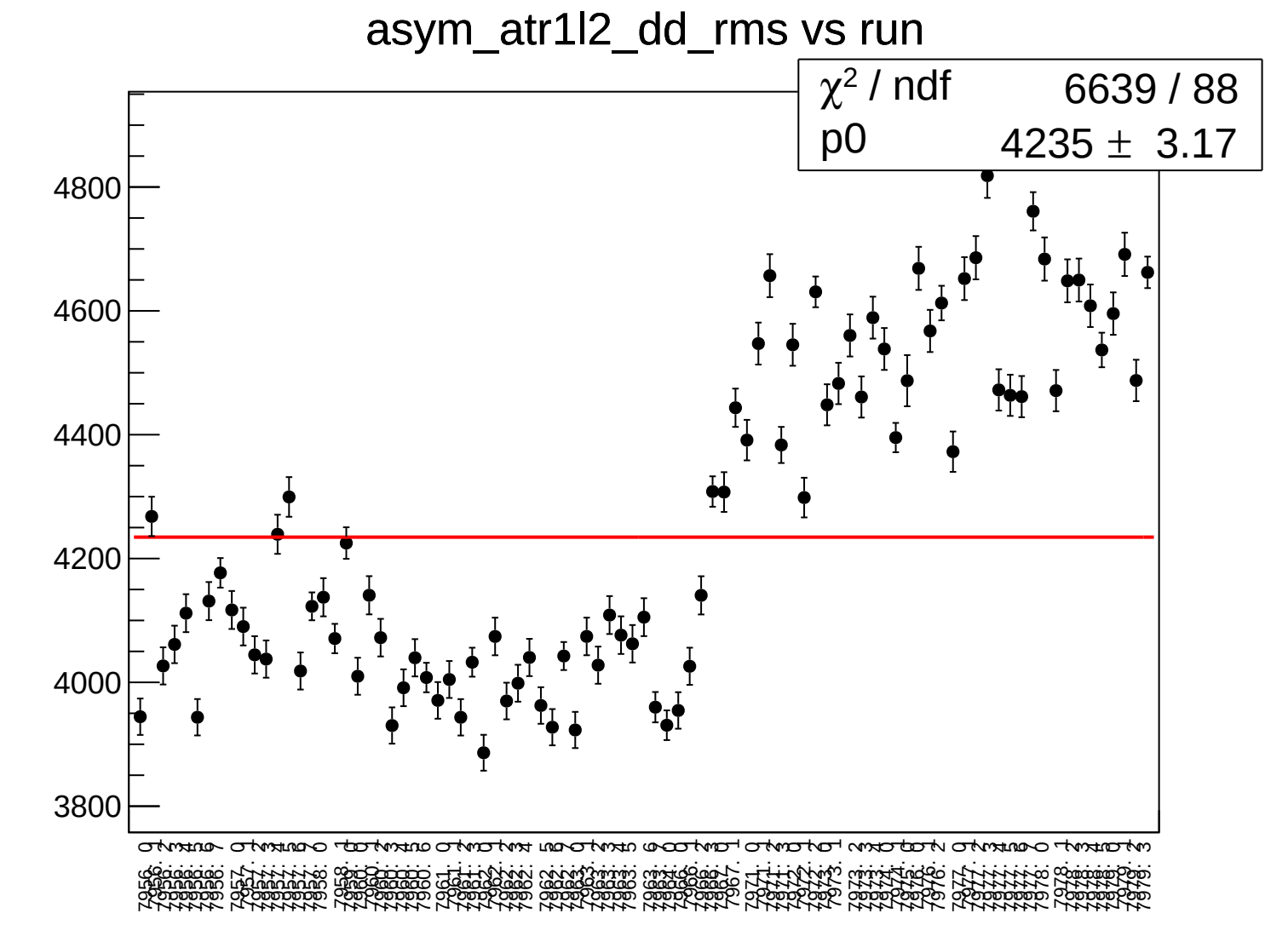

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.15 / 88
p0 −2639 ± 4219
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −1423
Std Dev 0
2
1
0
−1
−2

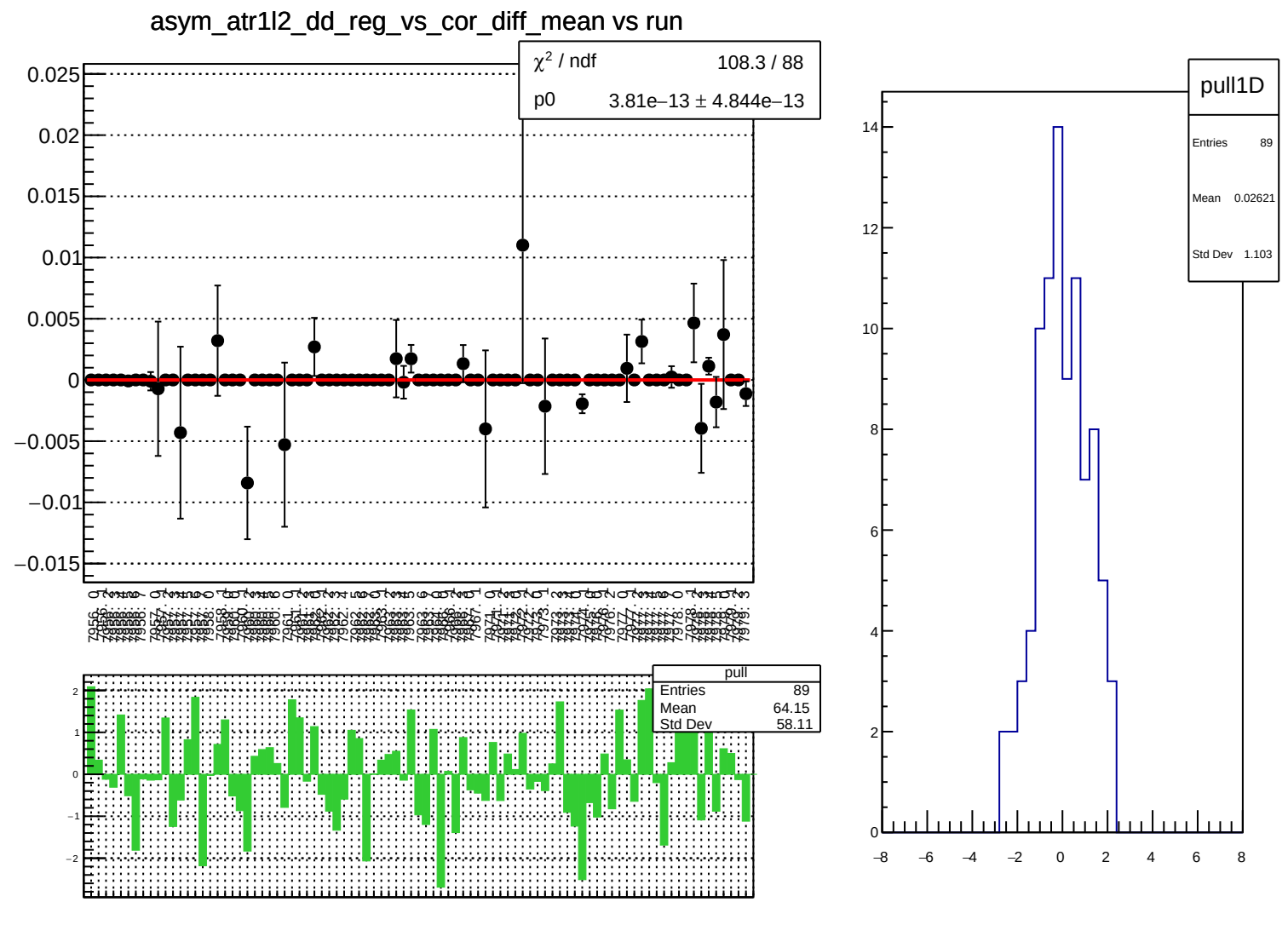

pull1D
Entries 89
Mean −0.001496
Std Dev 0.9839
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

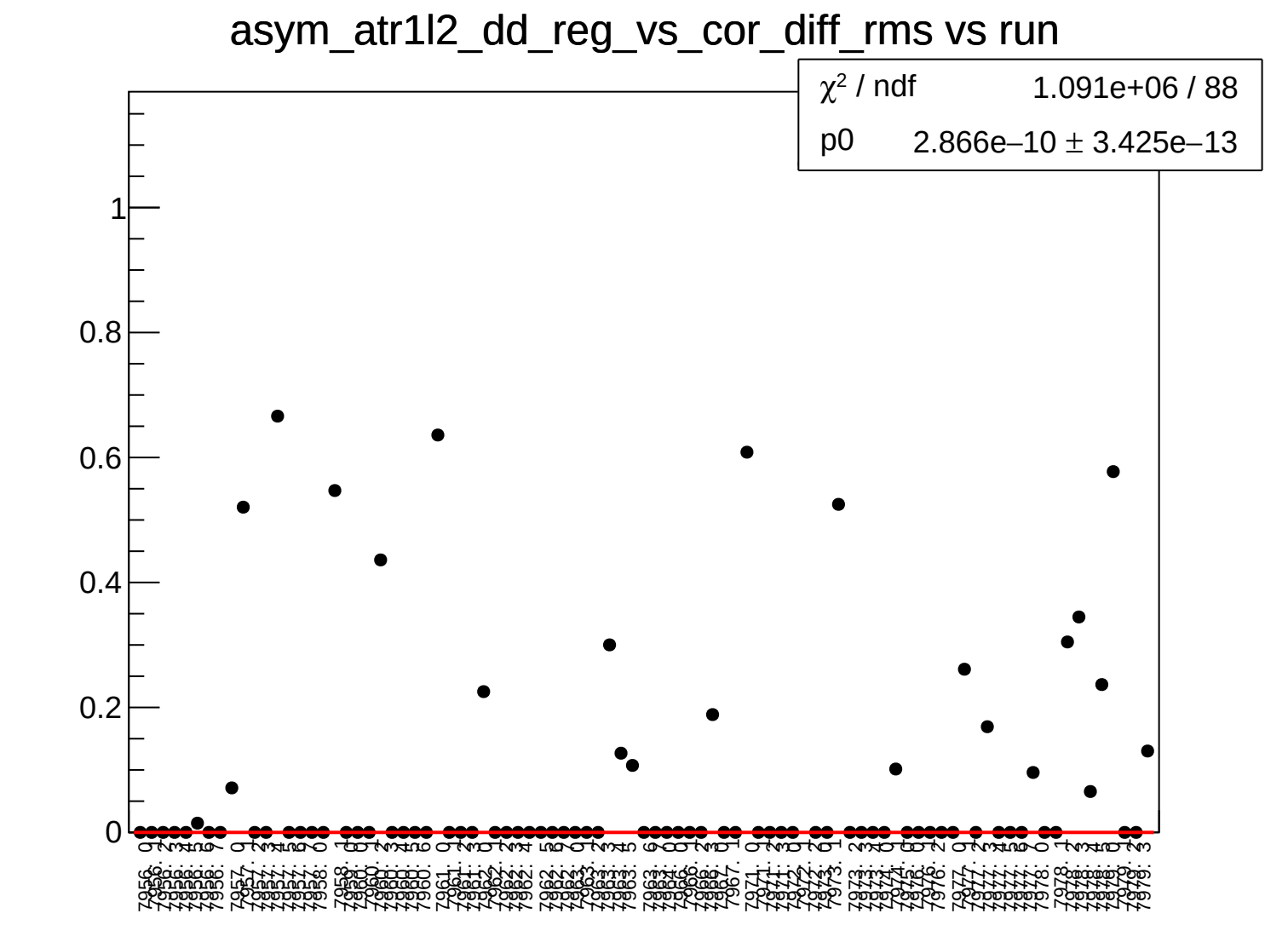

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7018 / 88
p0 3984 ± 2.983
4600
4400
4200
4000
3800
3600

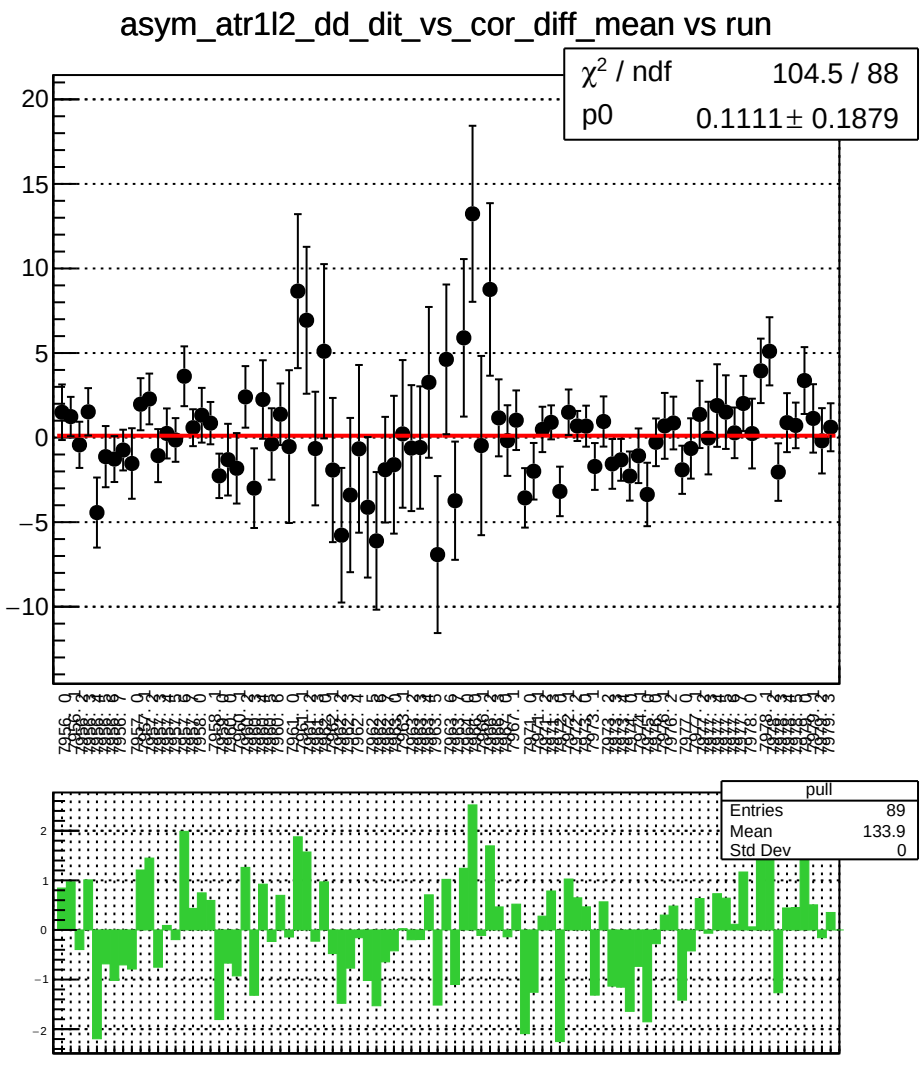

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 87.07 / 88
p0 3656 ± 4484
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −944.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

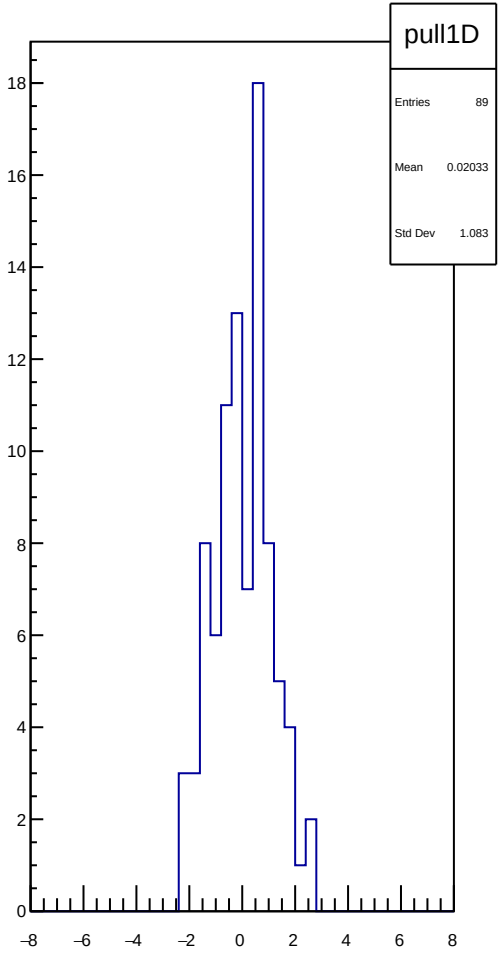

pull1D
Entries 89
Mean 0.001169
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

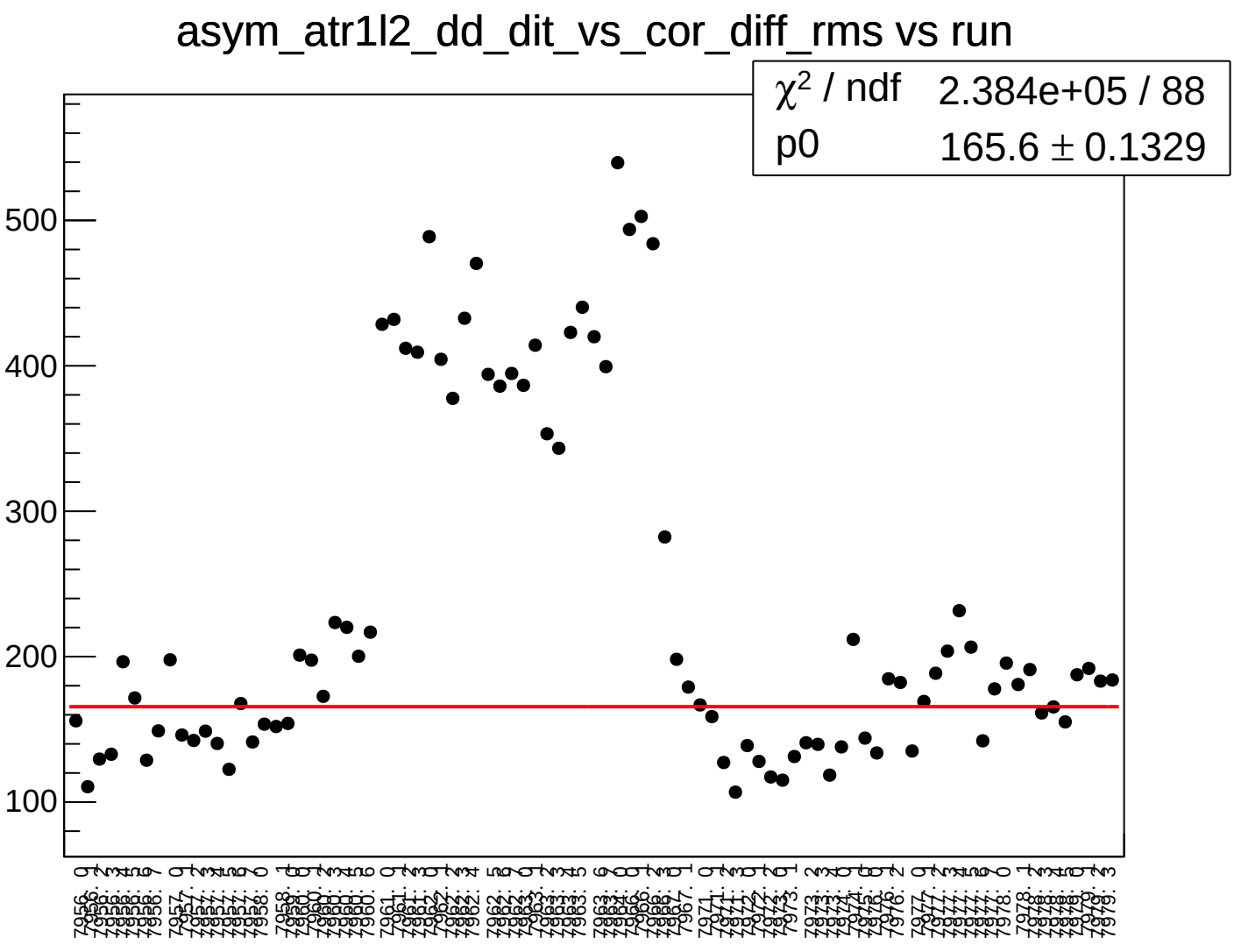

asym_atr1l2_dd_rms vs run
χ² / ndf 6639 / 88
p0 4235 ± 3.17
4800
4600
4400
4200
4000
3800

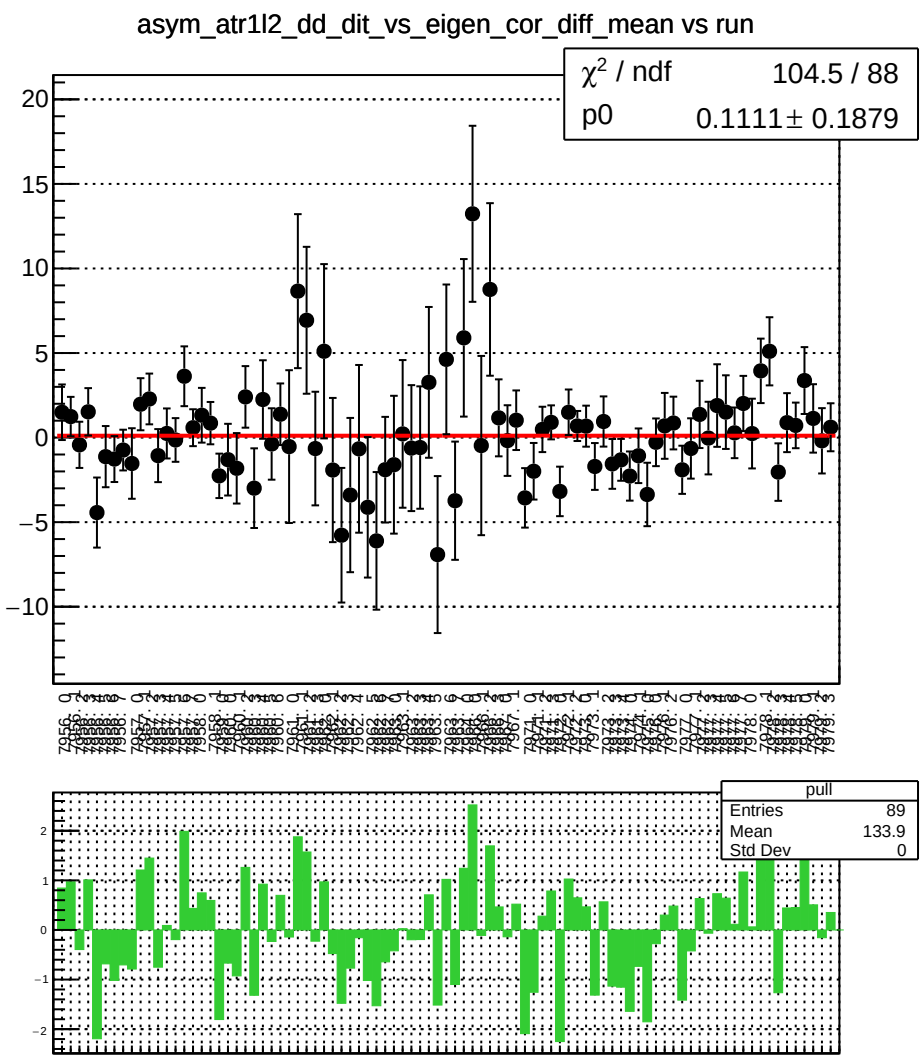

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 88
p0 3.81e−13 ± 4.844e−13
pull
Entries 89
Mean 64.15
Std Dev 58.11
pull1D
Entries 89
Mean 0.02621
Std Dev 1.103

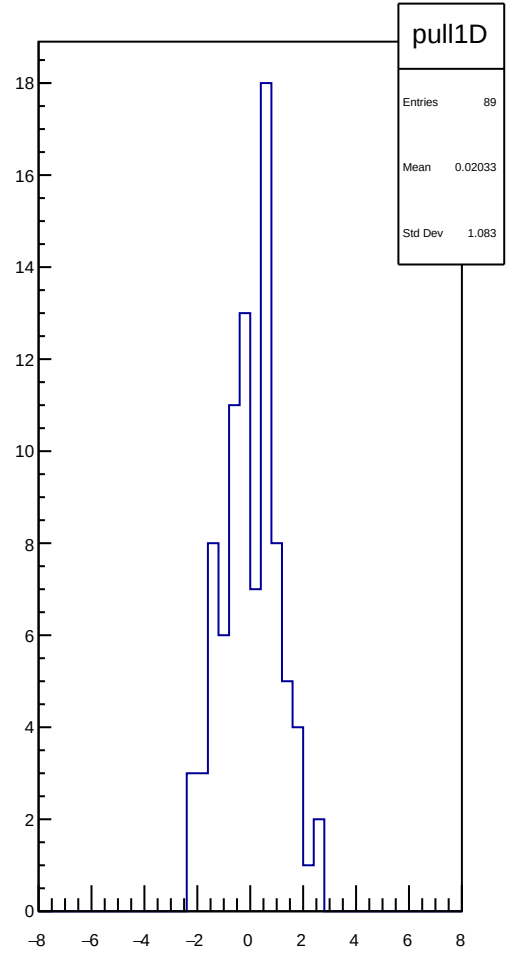

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.091e+06 / 88
p0 2.866e−10 ± 3.425e−13
1
0.8
0.6
0.4
0.2
0

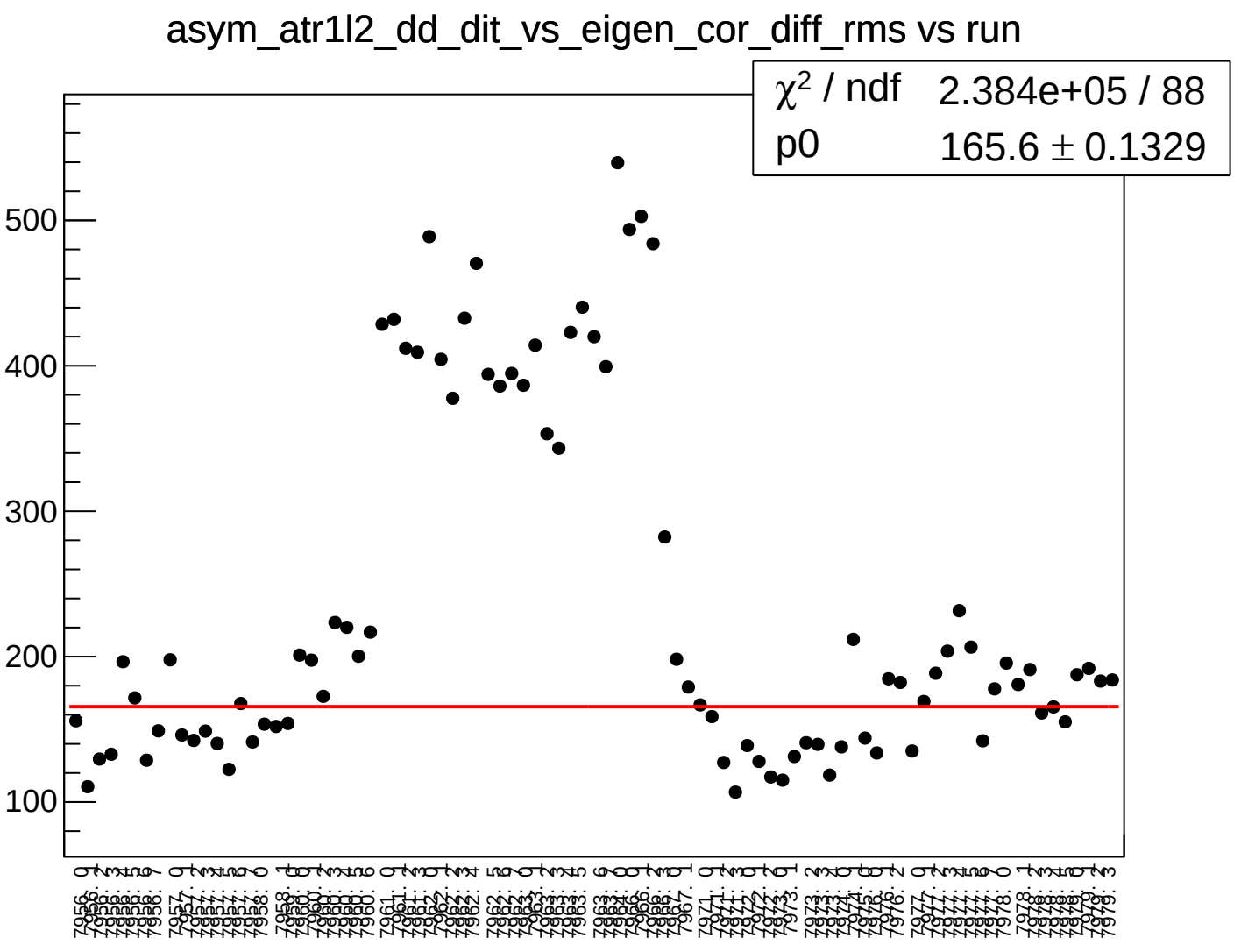

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 88
p0 0.1111 ± 0.1879
pull
Entries 89
Mean 133.9
Std Dev 0

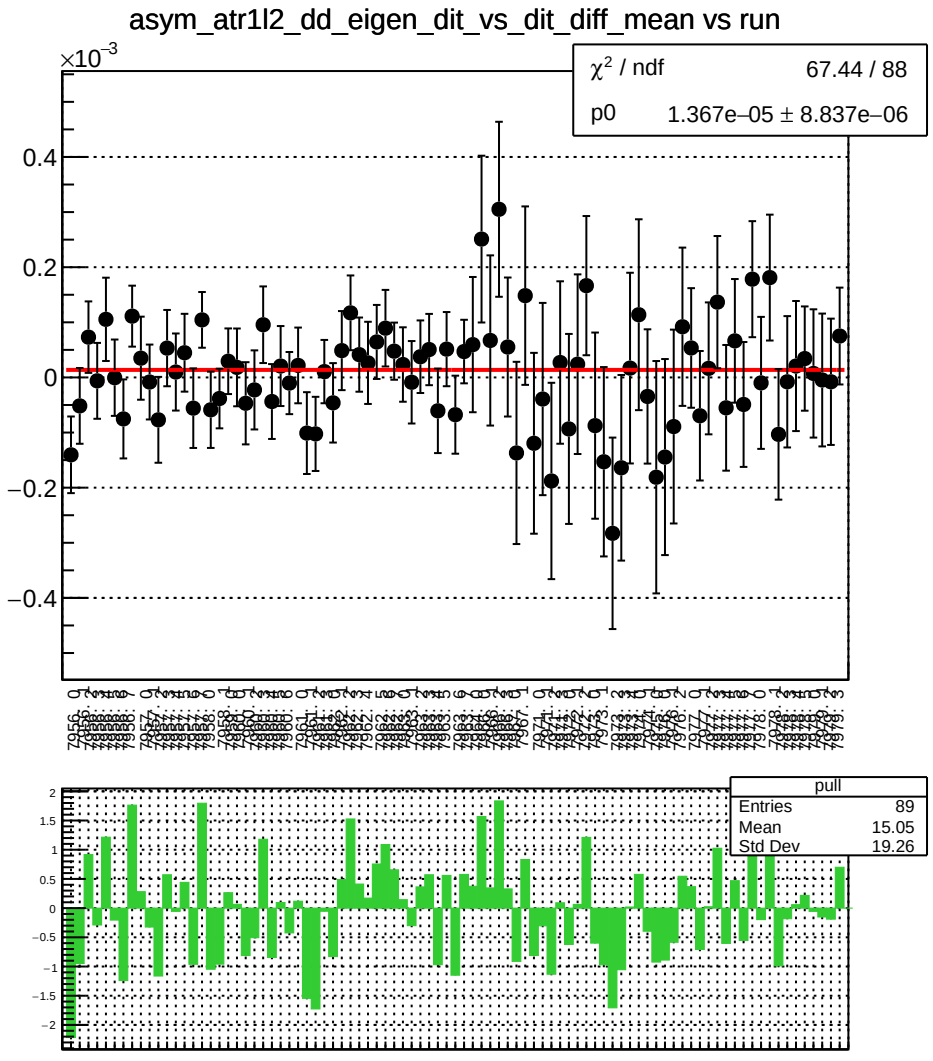

pull1D
Entries 89
Mean 0.02033
Std Dev 1.083

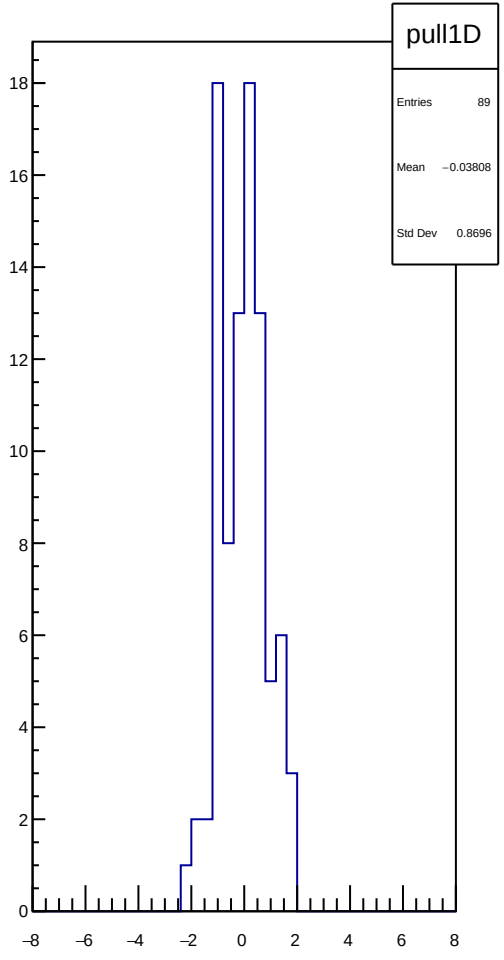

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.384e+05 / 88
p0 165.6 ± 0.1329
500
400
300
200
100

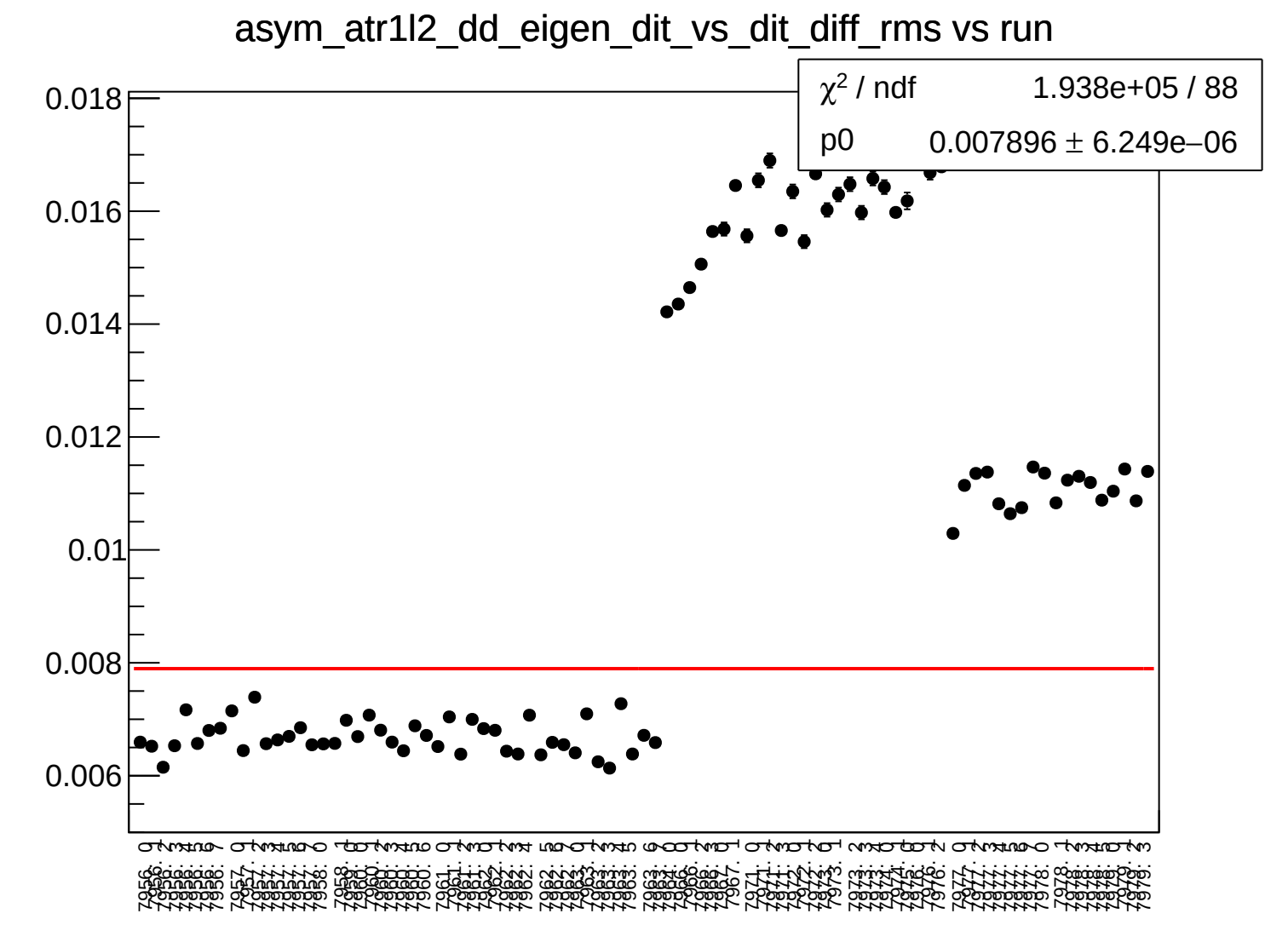

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 88
p0 0.1111 ± 0.1879
pull
Entries 89
Mean 133.9
Std Dev 0

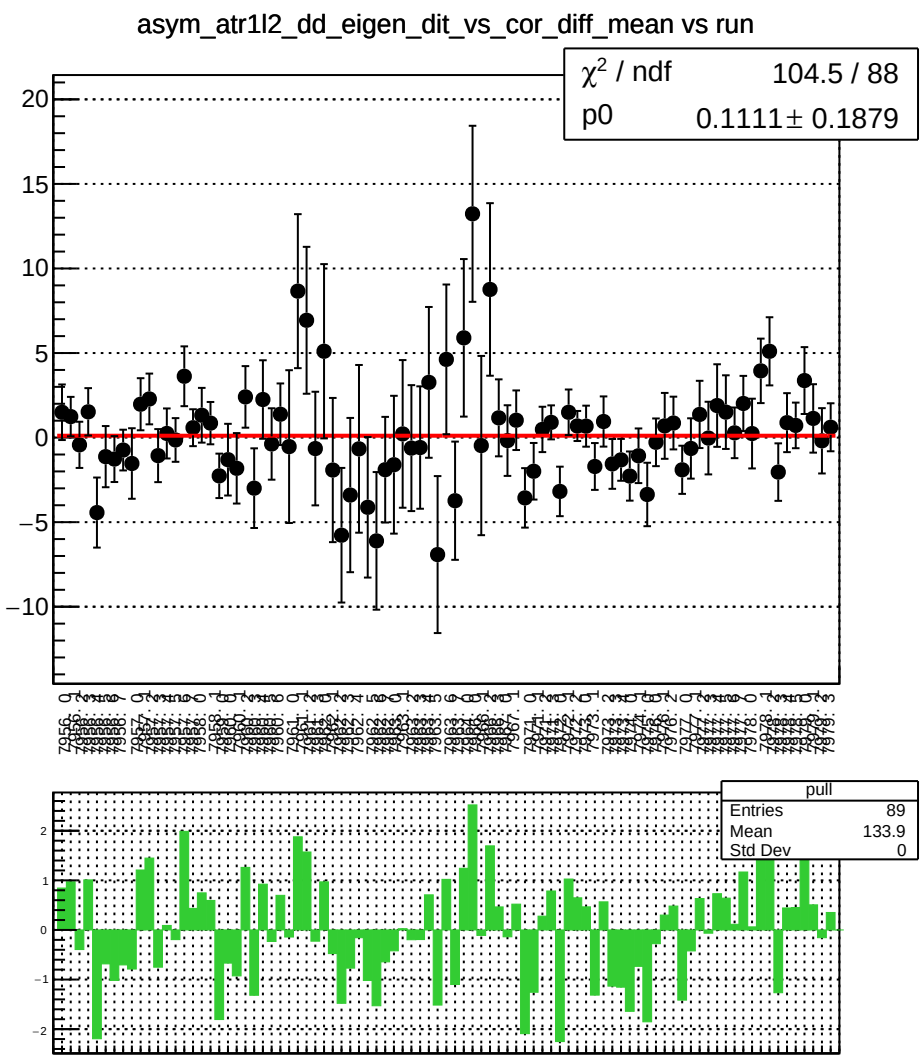

pull1D
Entries 89
Mean 0.02033
Std Dev 1.083

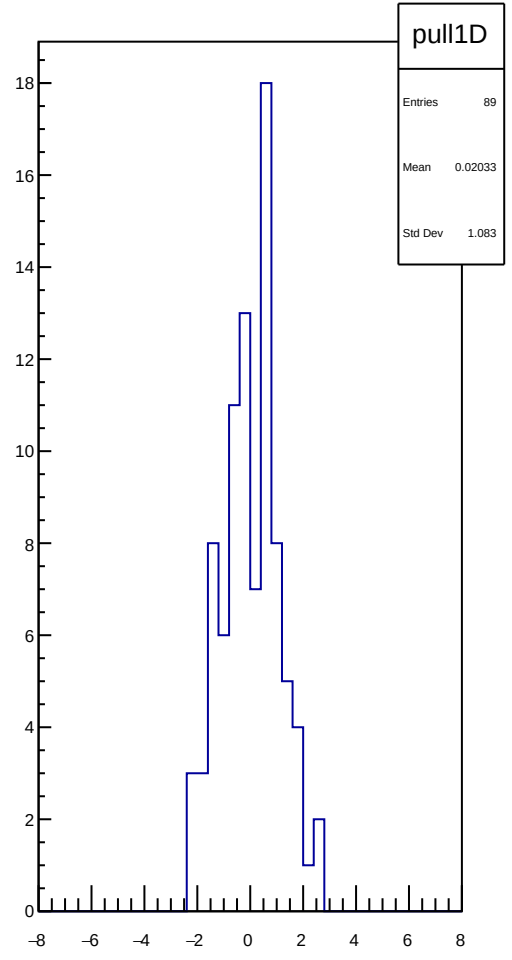

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.384e+05 / 88
p0 165.6 ± 0.1329
500
400
300
200
100

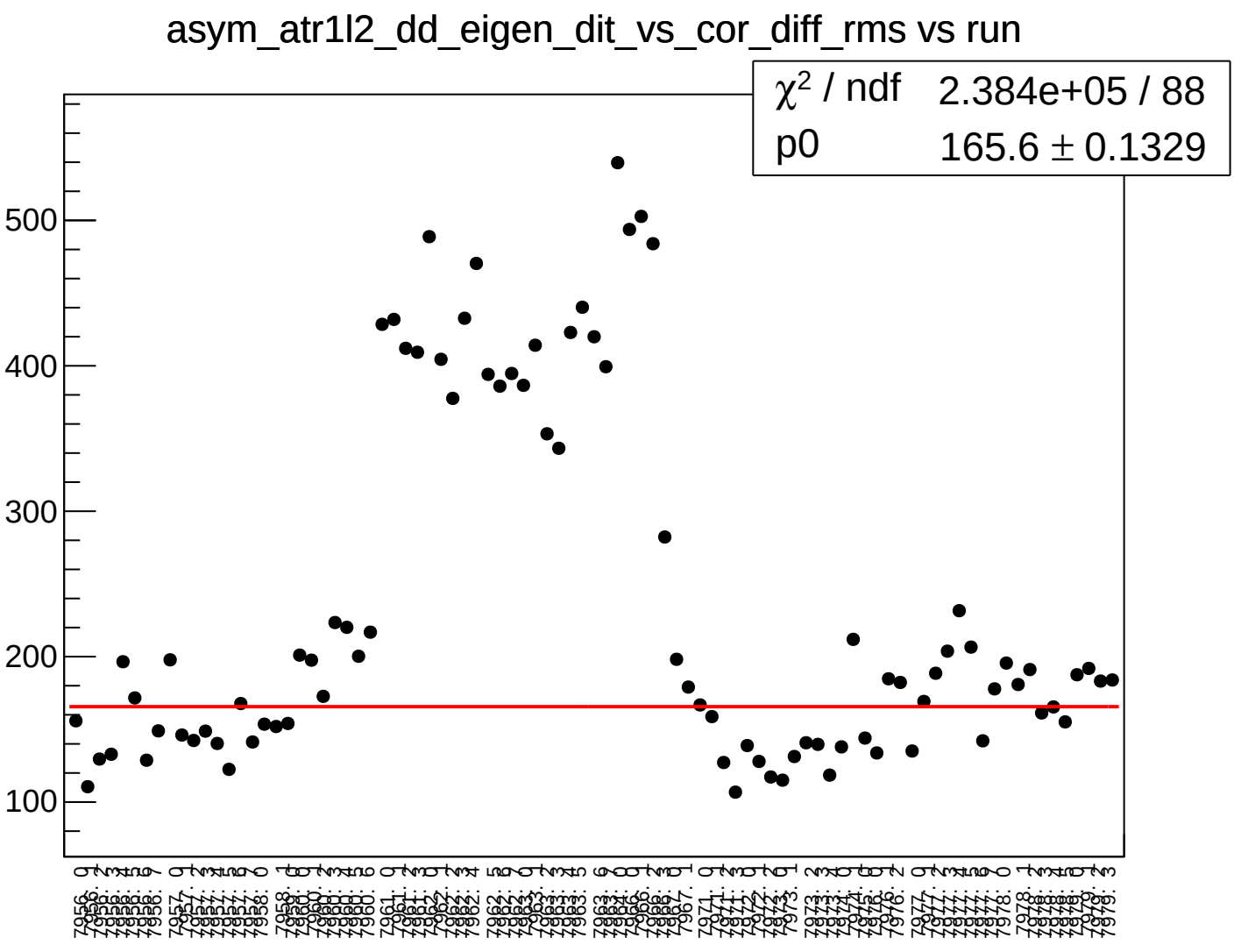

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.44 / 88
p0 1.367e−05 ± 8.837e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 15.05
Std Dev 19.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

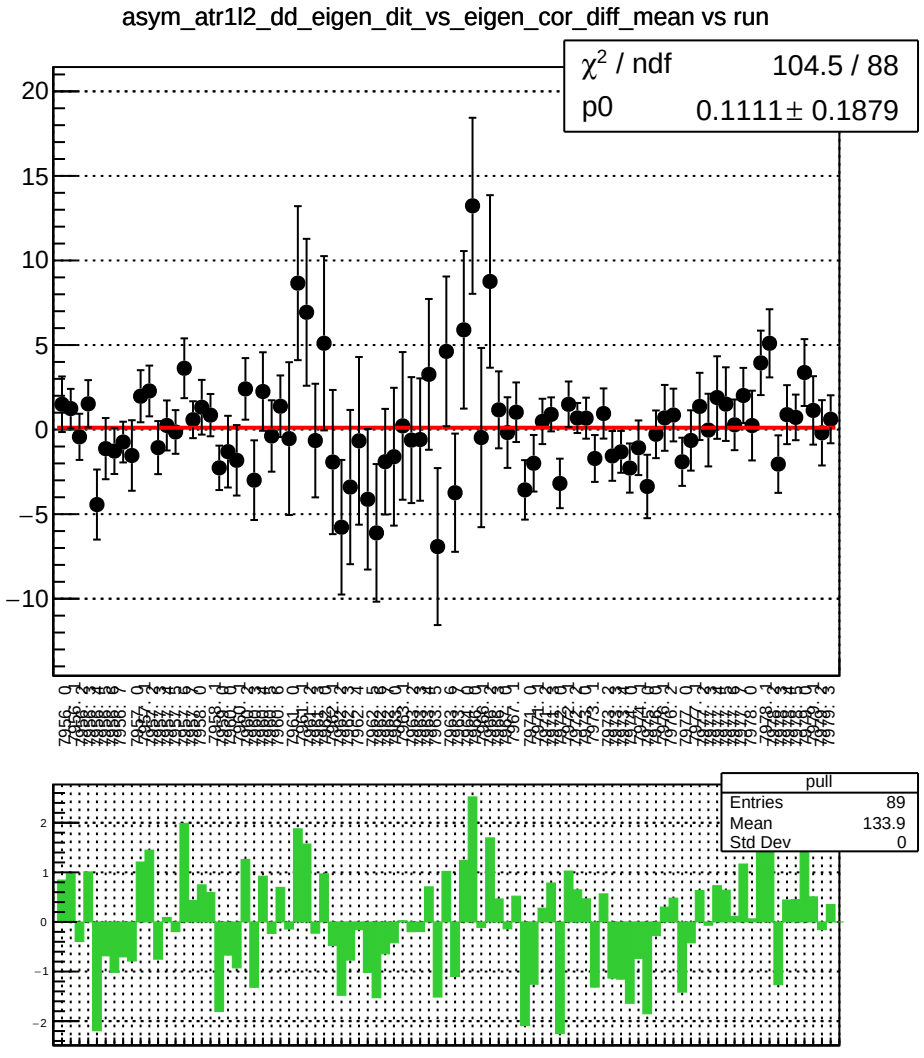

pull1D
Entries 89
Mean −0.03808
Std Dev 0.8696
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

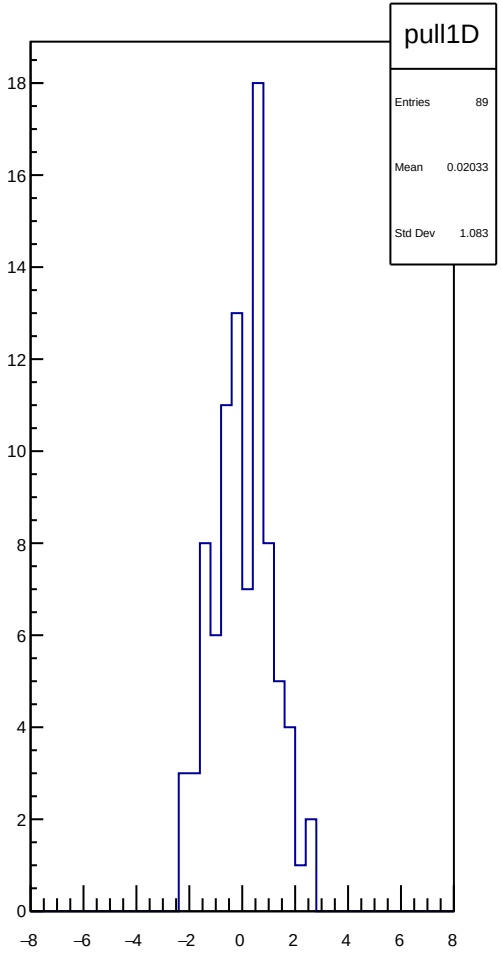

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.938e+05 / 88
p0 0.007896 ± 6.249e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

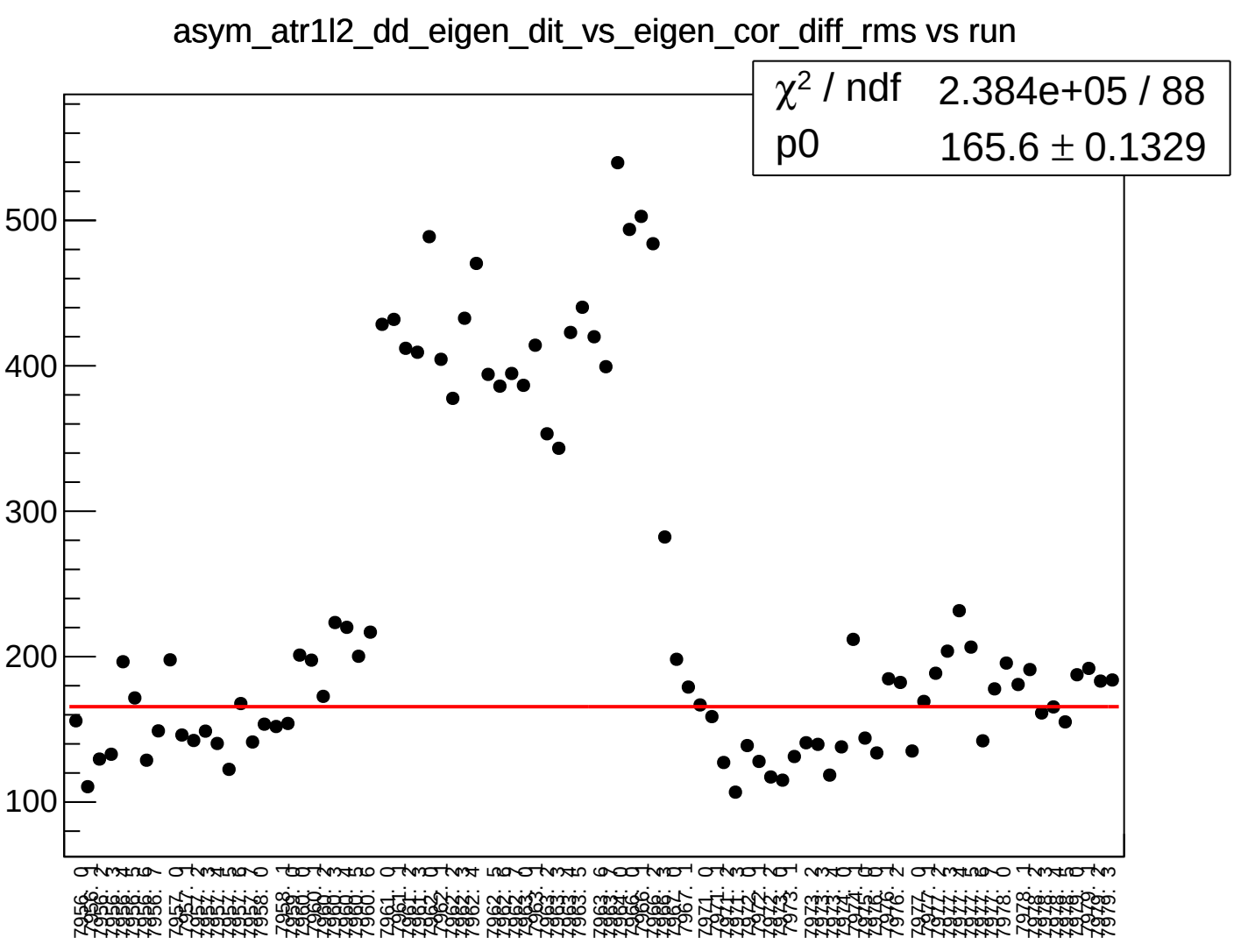

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 88
p0 0.1111 ± 0.1879
pull
Entries 89
Mean 133.9
Std Dev 0

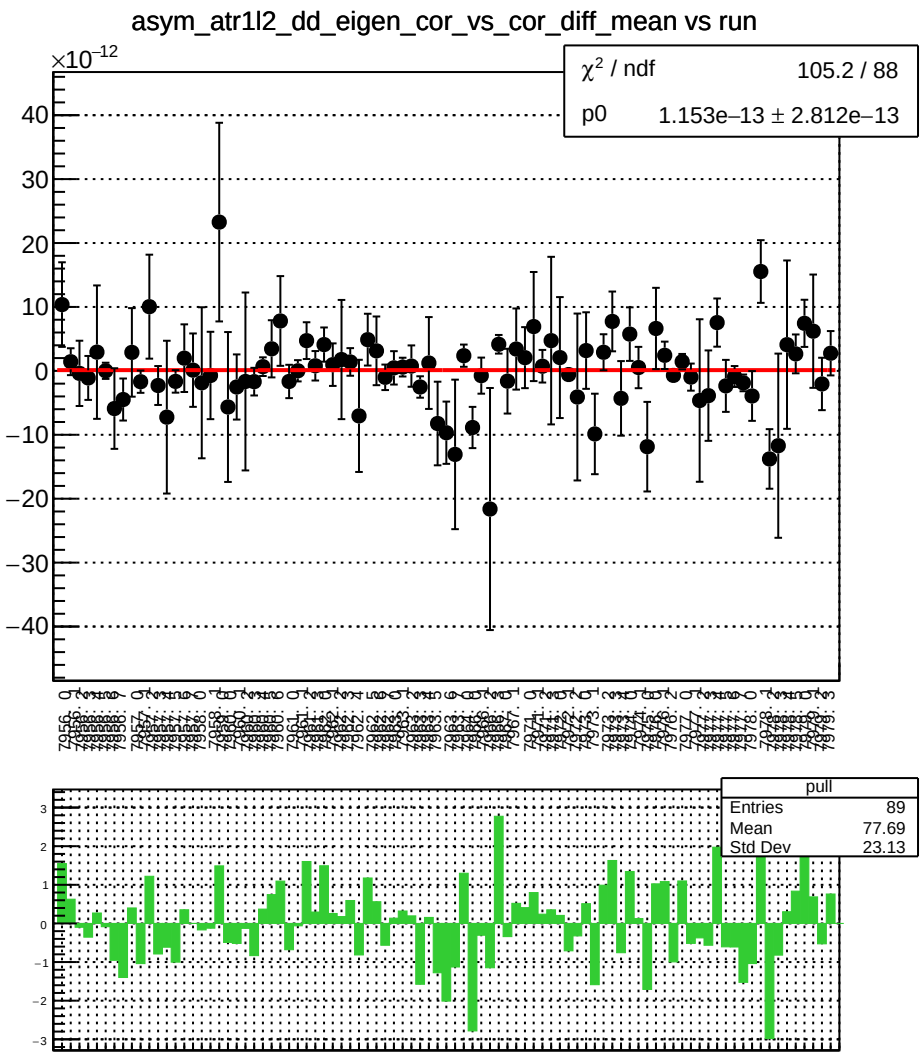

pull1D
Entries 89
Mean 0.02033
Std Dev 1.083

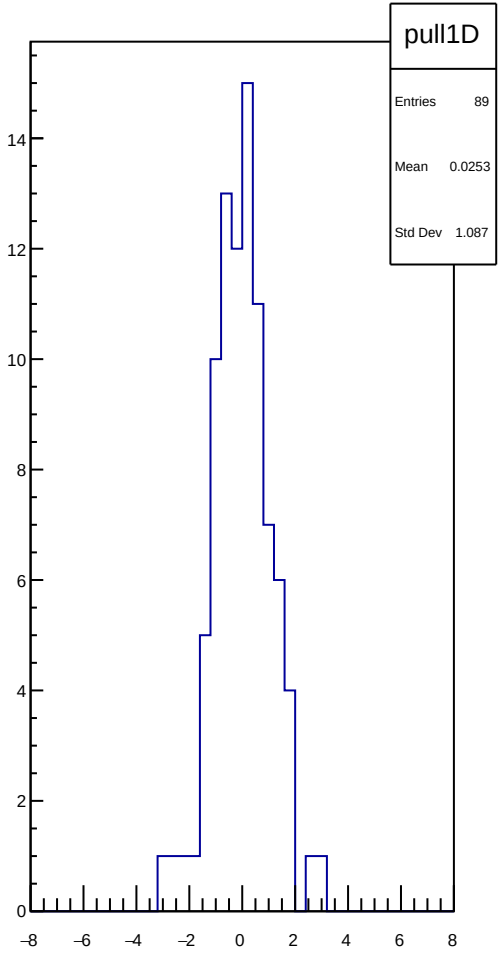

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.384e+05 / 88
p0 165.6 ± 0.1329
500
400
300
200
100

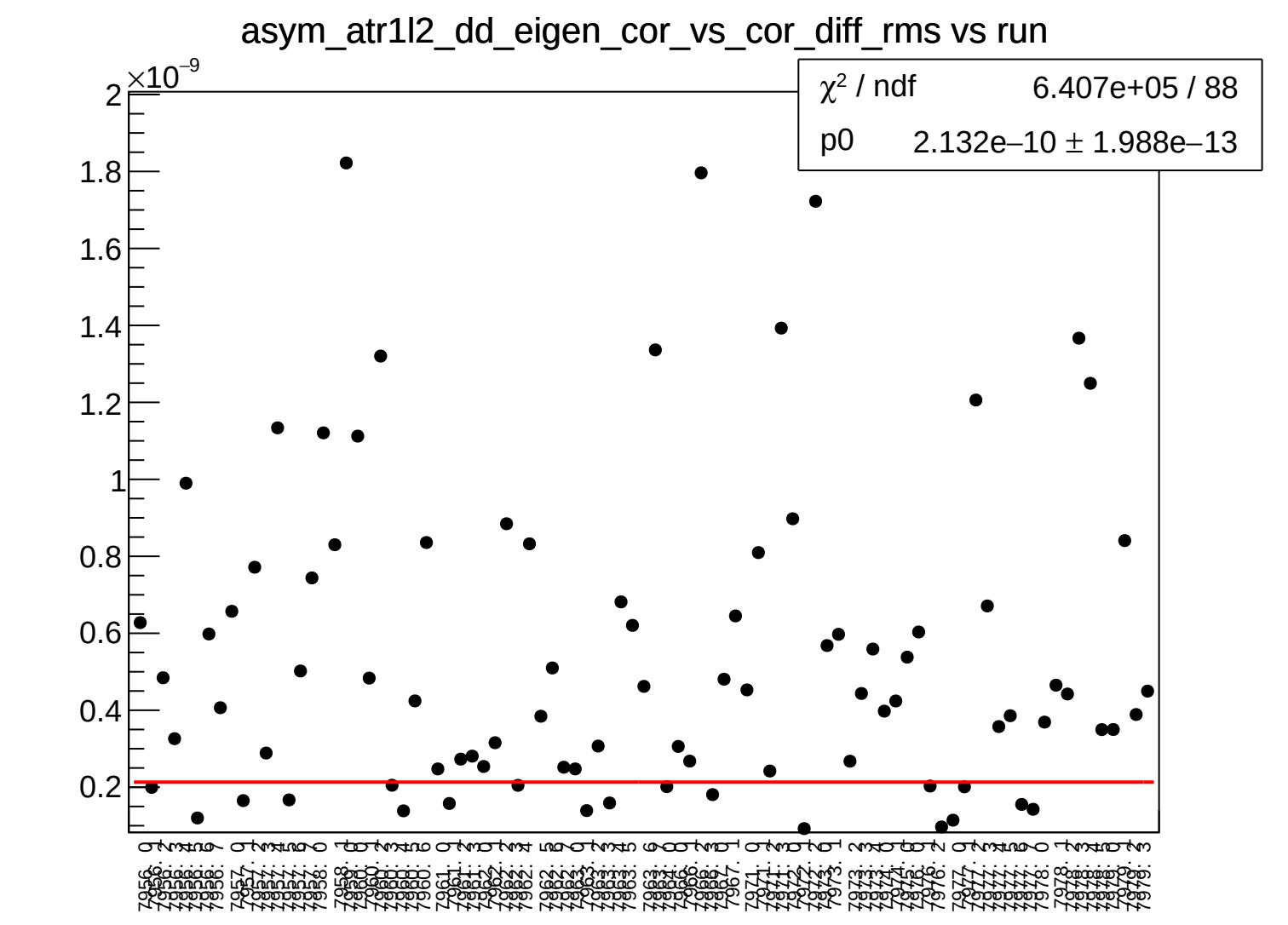

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 88
p0 0.1111 ± 0.1879
pull
Entries 89
Mean 133.9
Std Dev 0

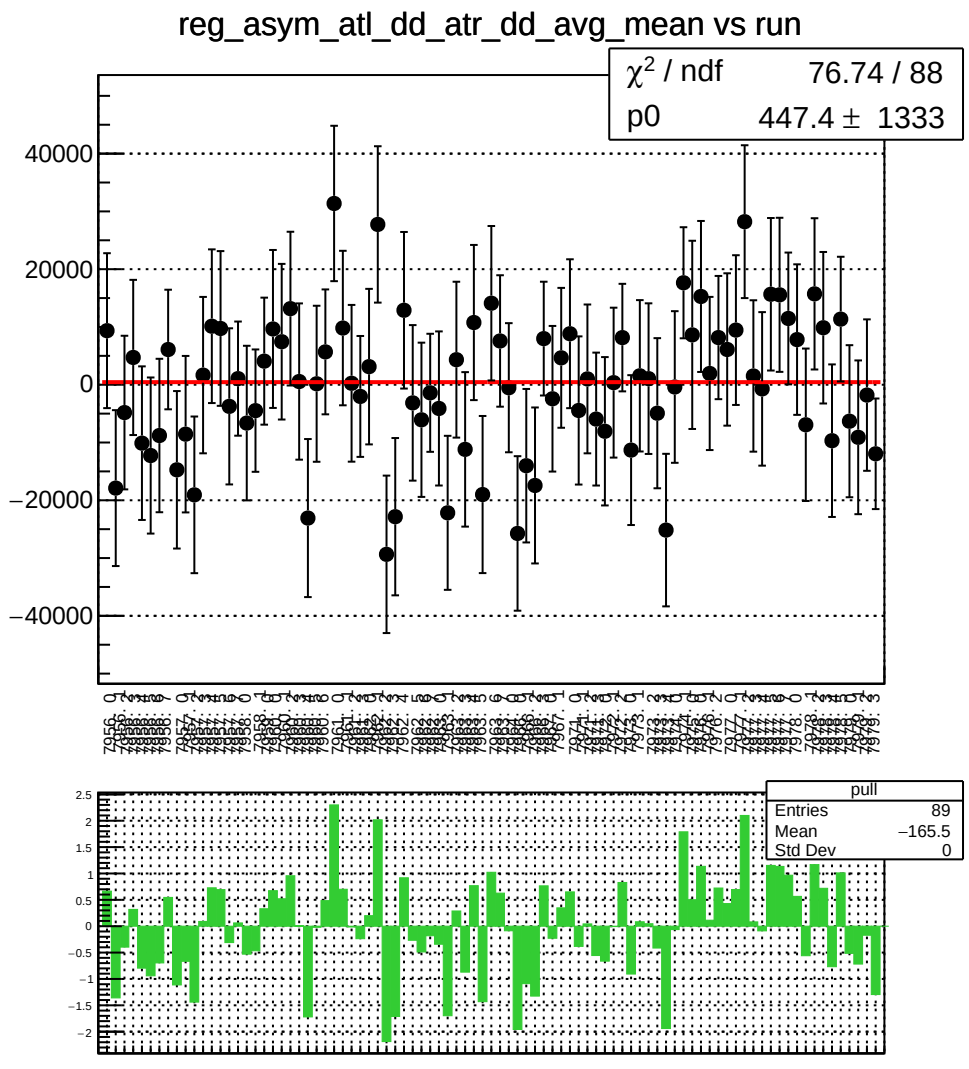

pull1D
Entries 89
Mean 0.02033
Std Dev 1.083

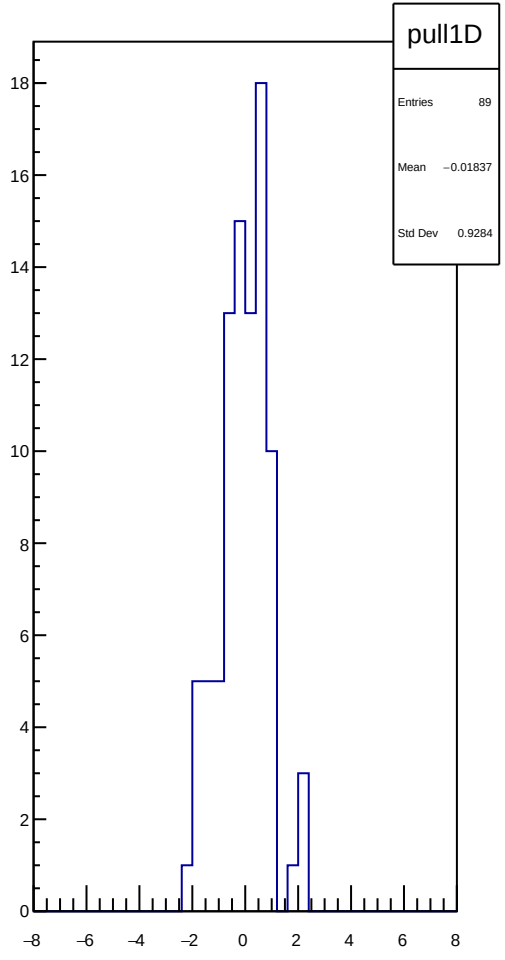

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.384e+05 / 88
p0 165.6 ± 0.1329
500
400
300
200
100

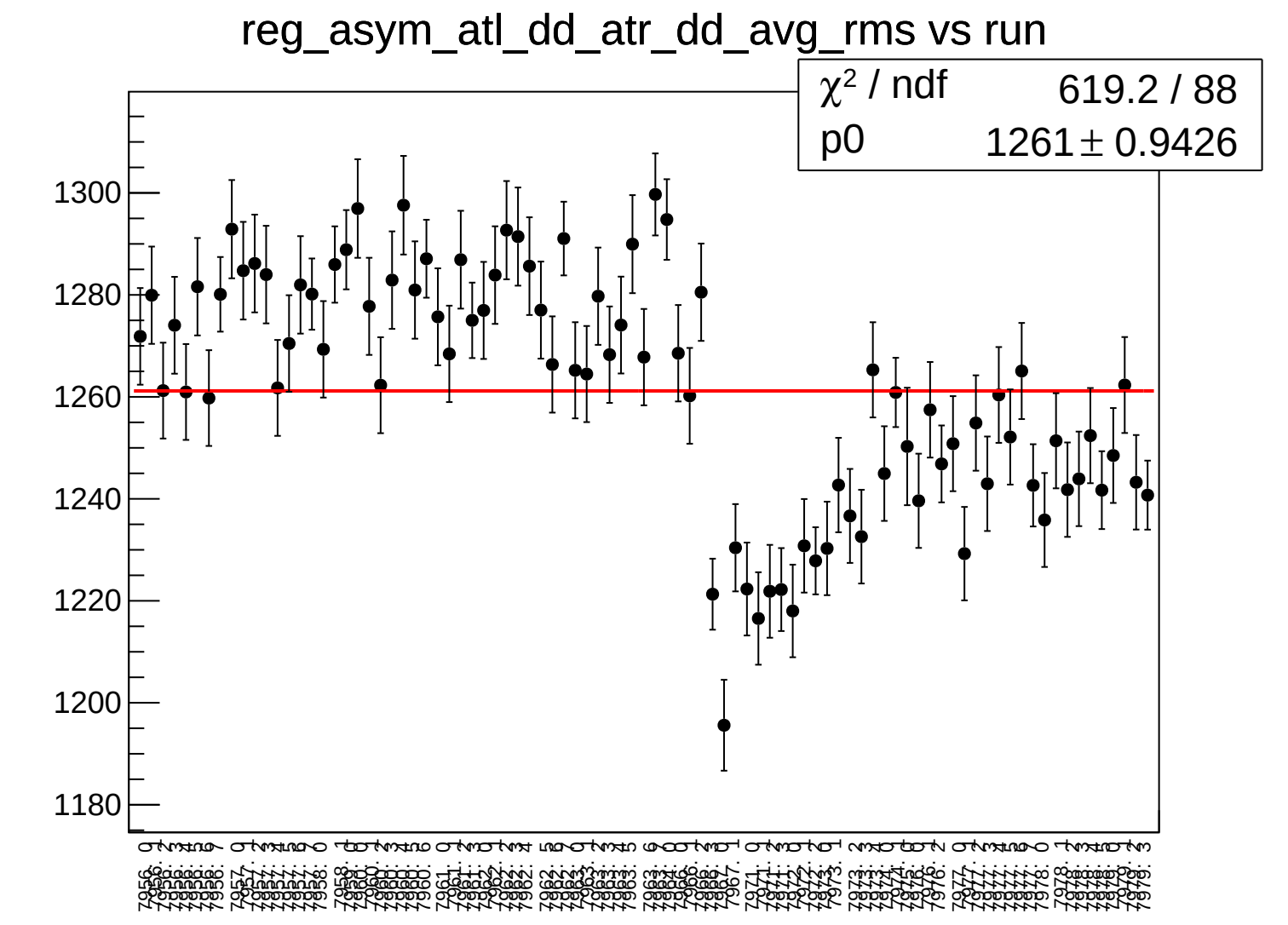

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.2 / 88
p0 1.153e−13 ± 2.812e−13
pull
Entries 89
Mean 77.69
Std Dev 23.13

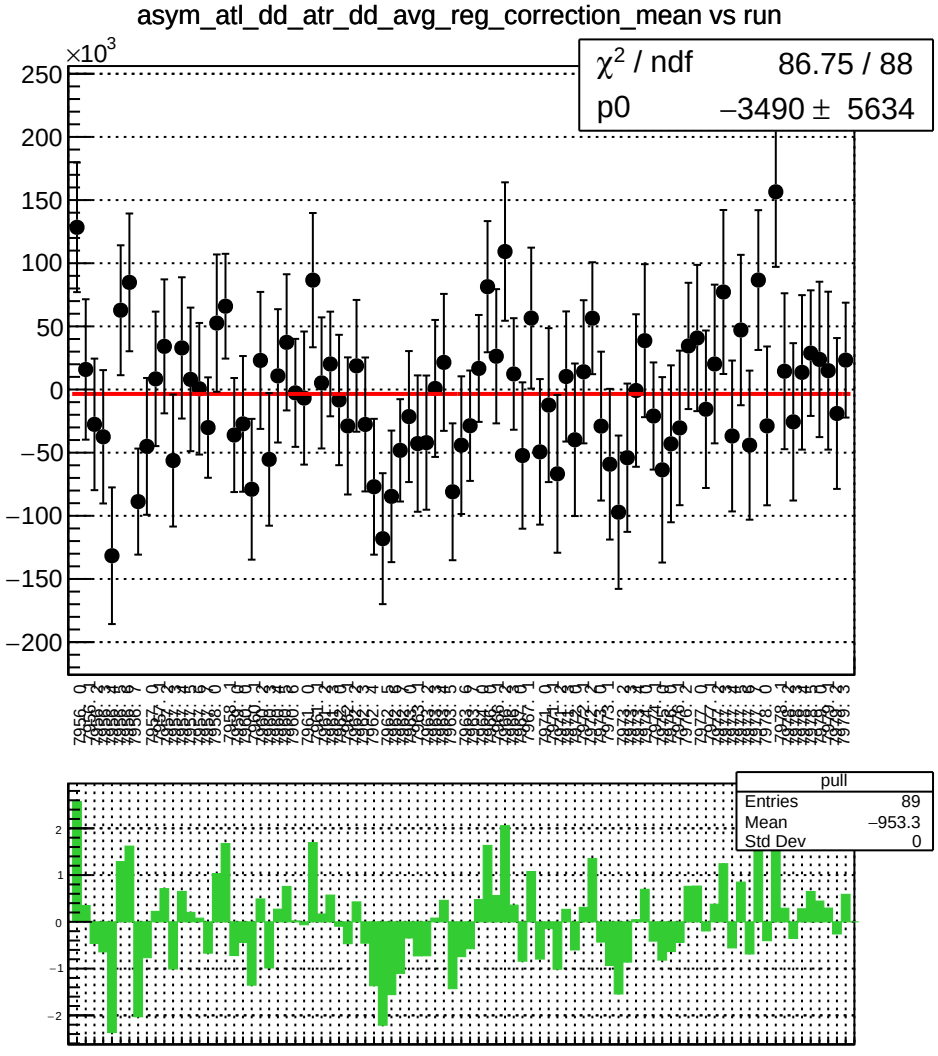

pull1D
Entries 89
Mean 0.0253
Std Dev 1.087

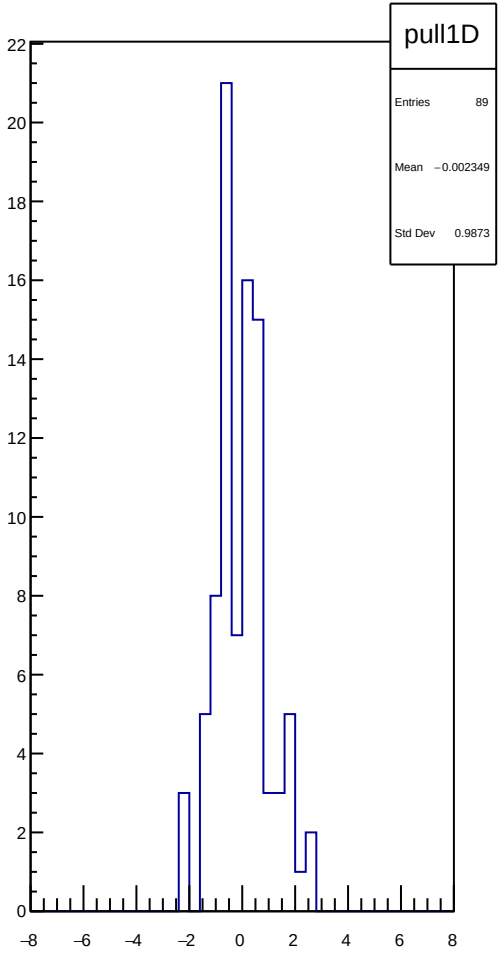

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.407e+05 / 88
p0 2.132e−10 ± 1.988e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

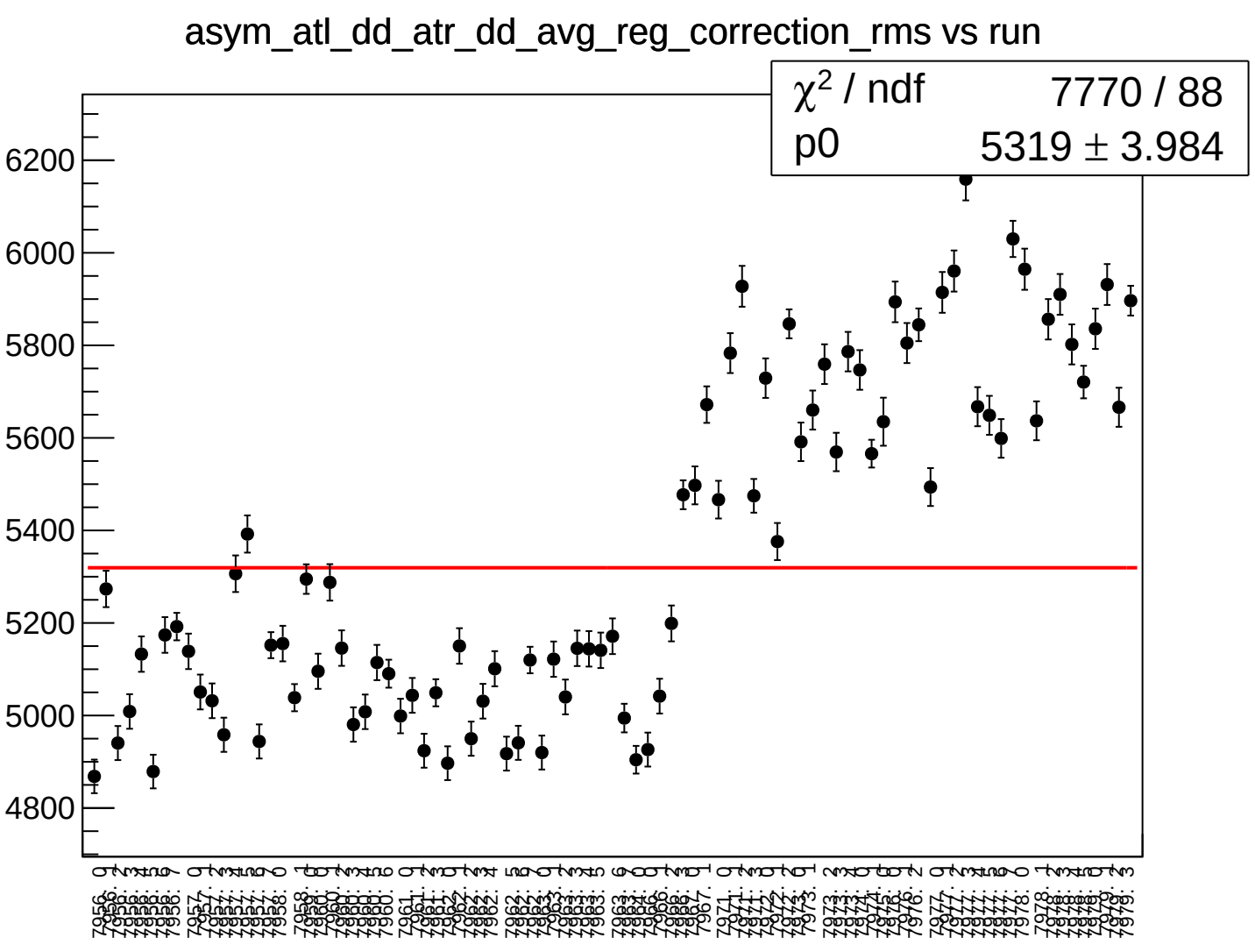

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.74 / 88
p0 447.4 ± 1333
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

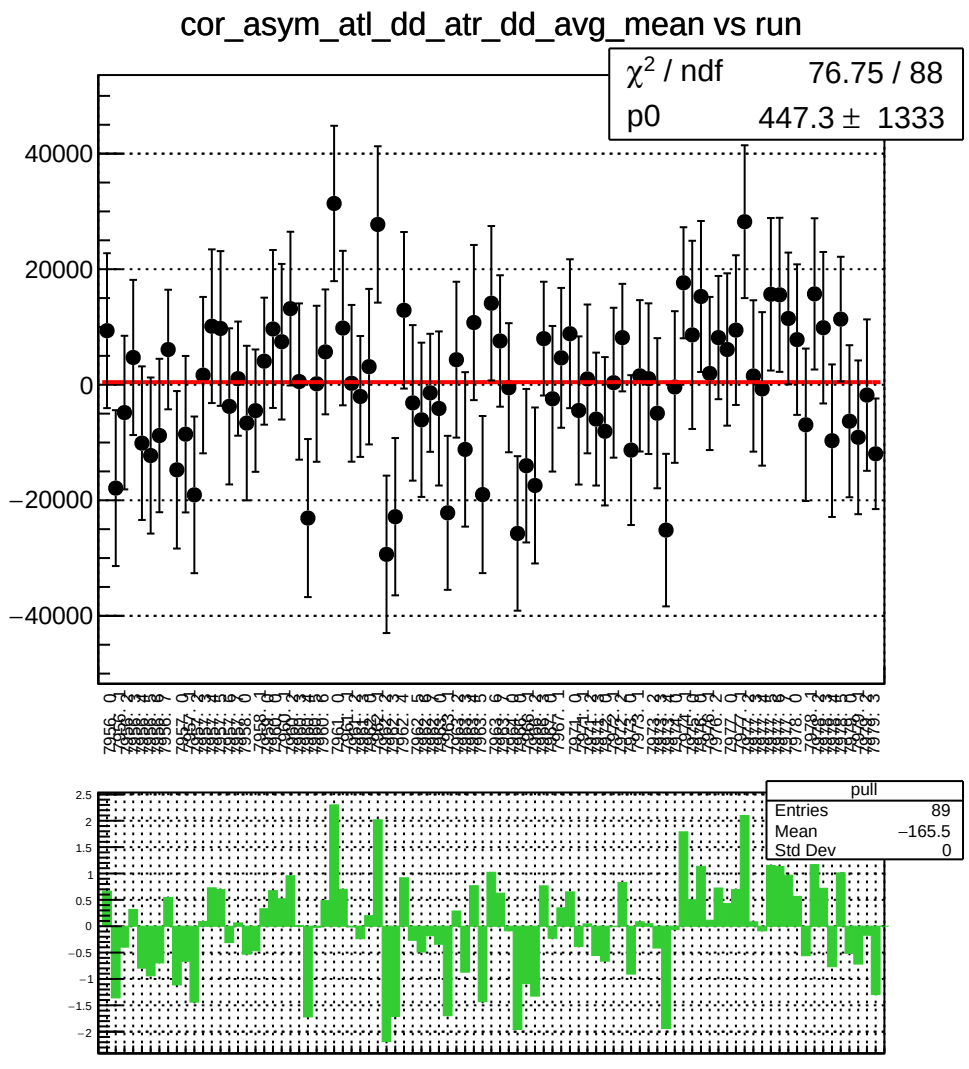

pull1D
Entries 89
Mean −0.01837
Std Dev 0.9284
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

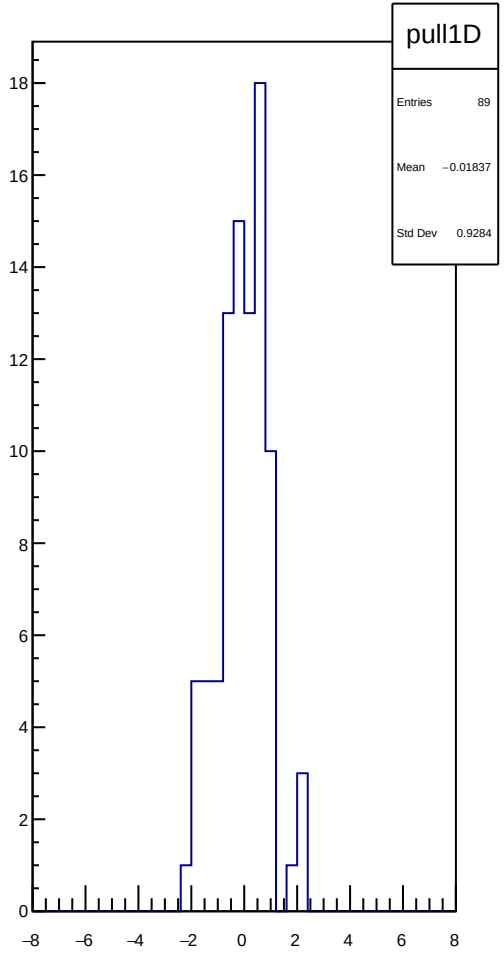

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 619.2 / 88
p0 1261 ± 0.9426
1300
1280
1260
1240
1220
1200
1180

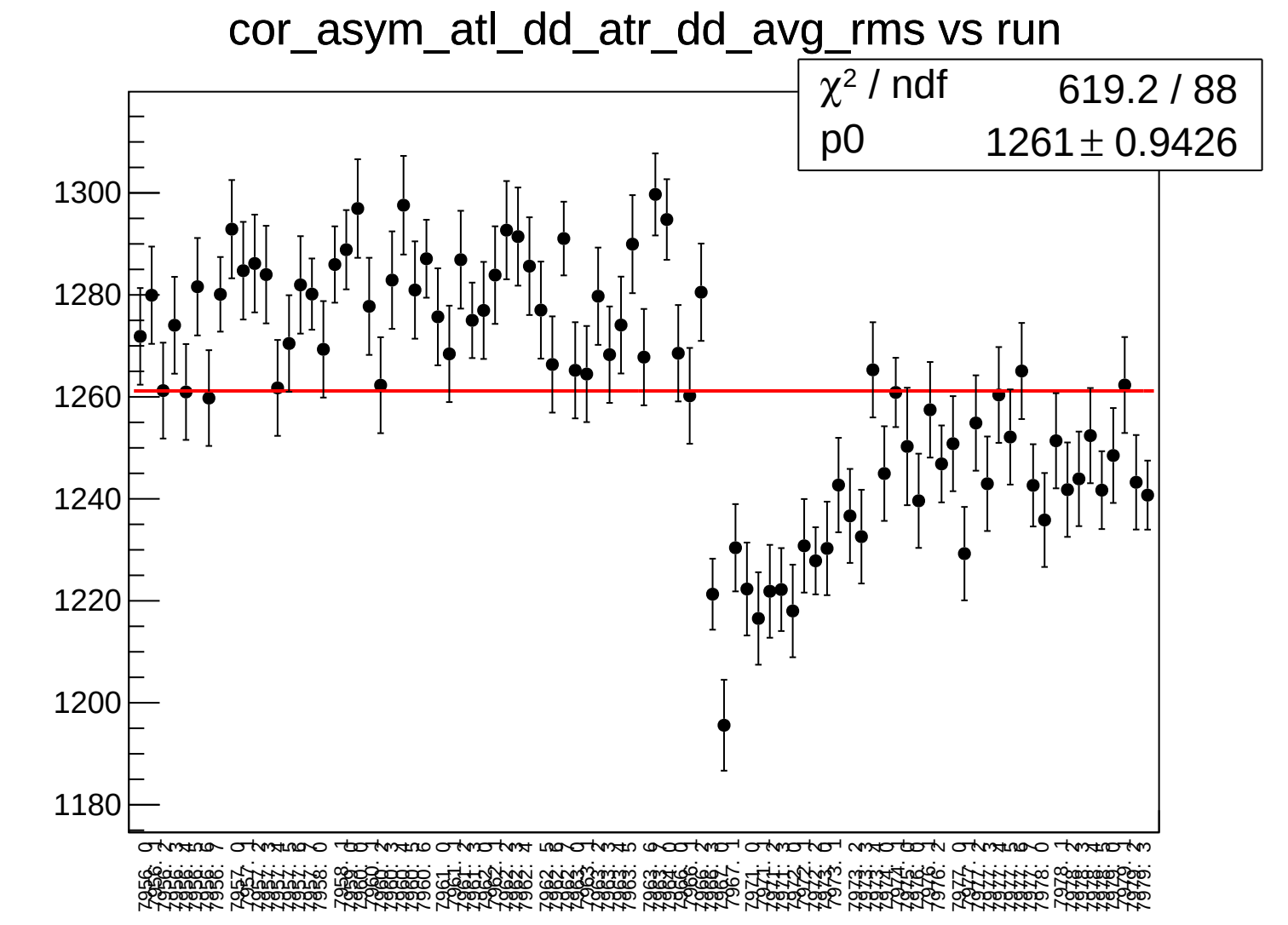

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.75 / 88
p0 −3490 ± 5634
pull
Entries 89
Mean −953.3
Std Dev 0

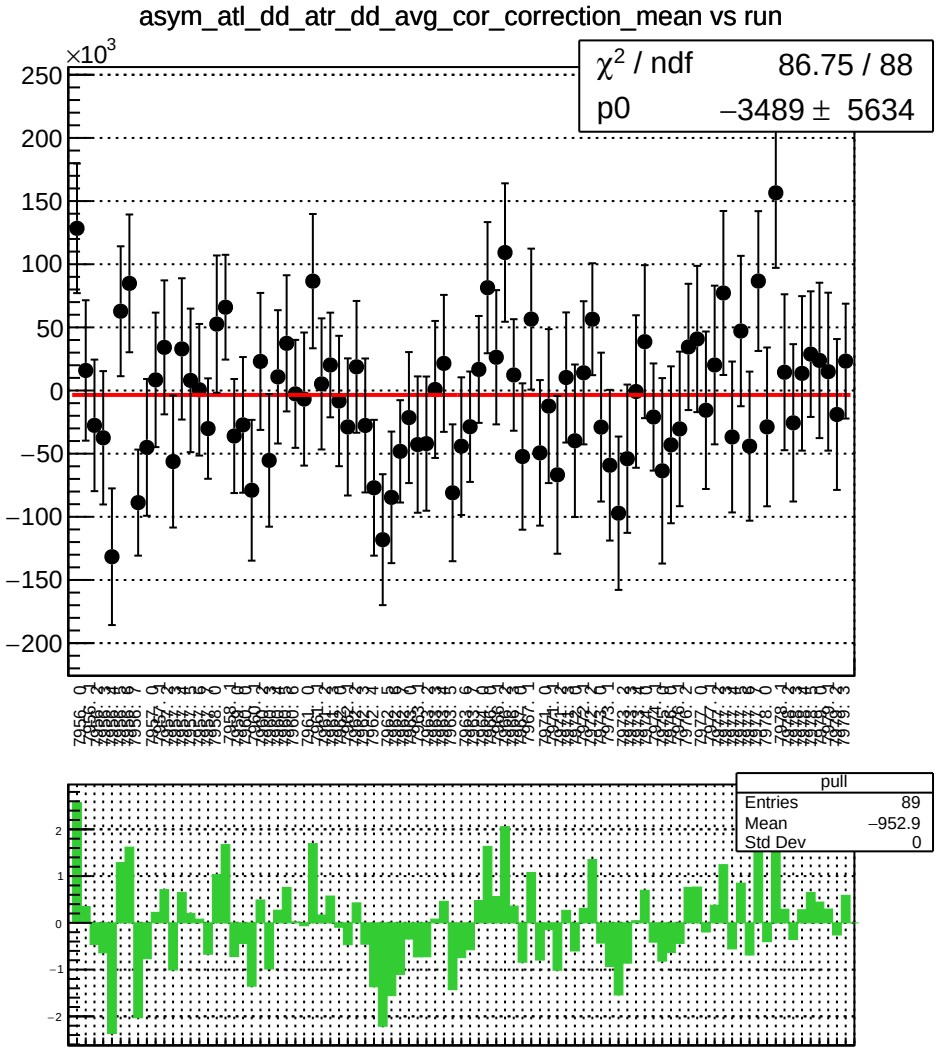

pull1D
Entries 89
Mean −0.002349
Std Dev 0.9873

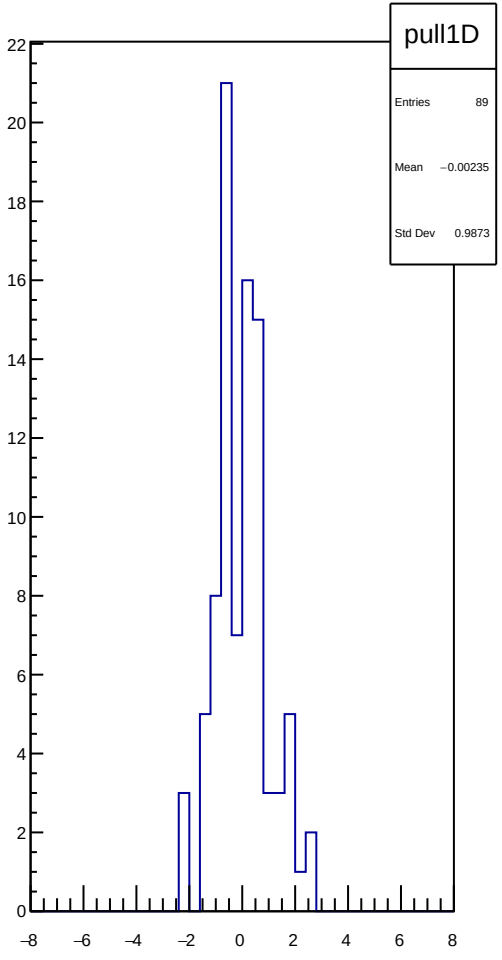

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 7770 / 88
p0 5319 ± 3.984
6200
6000
5800
5600
5400
5200
5000
4800

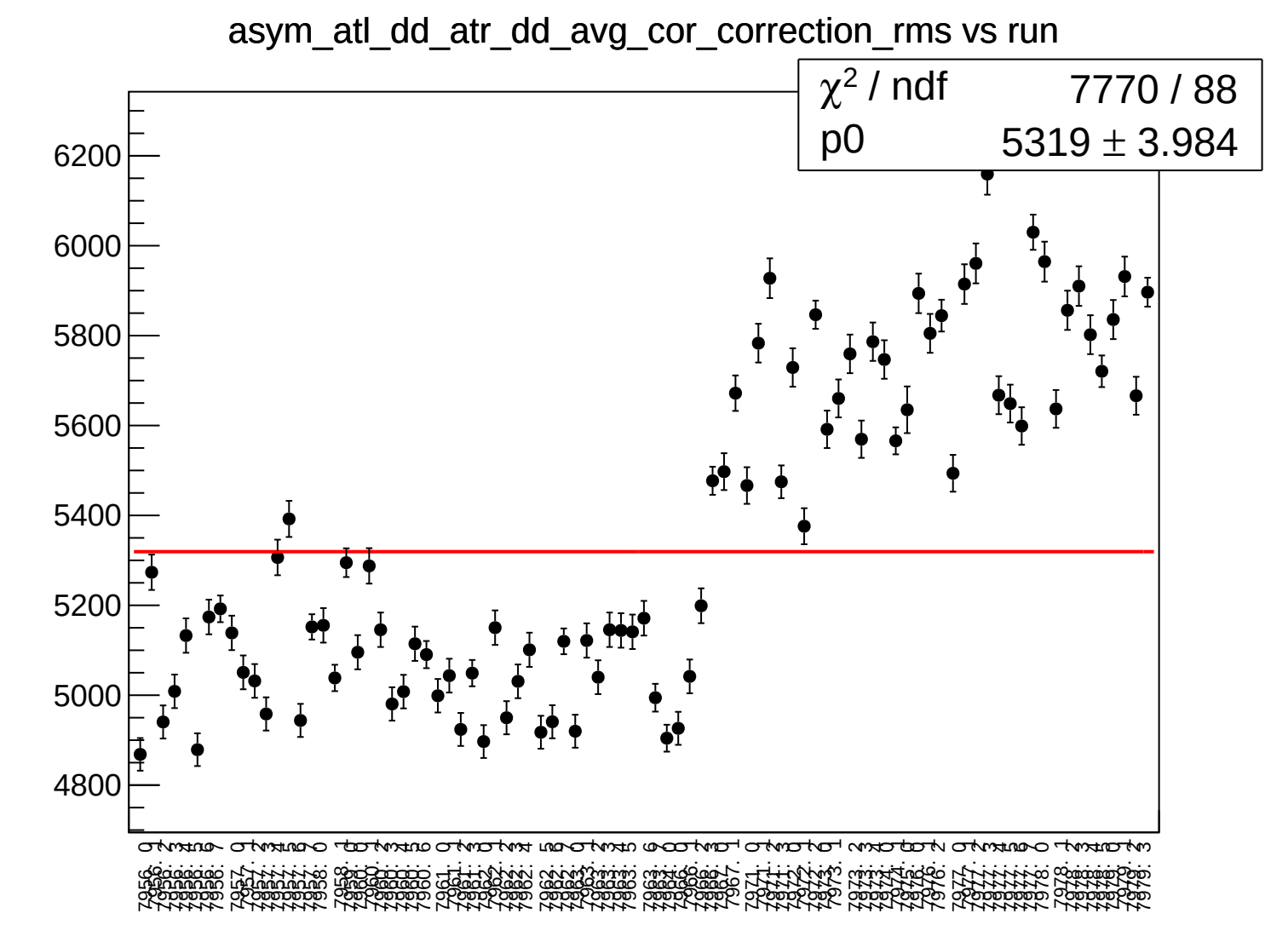

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.75 / 88
p0 447.3 ± 1333
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

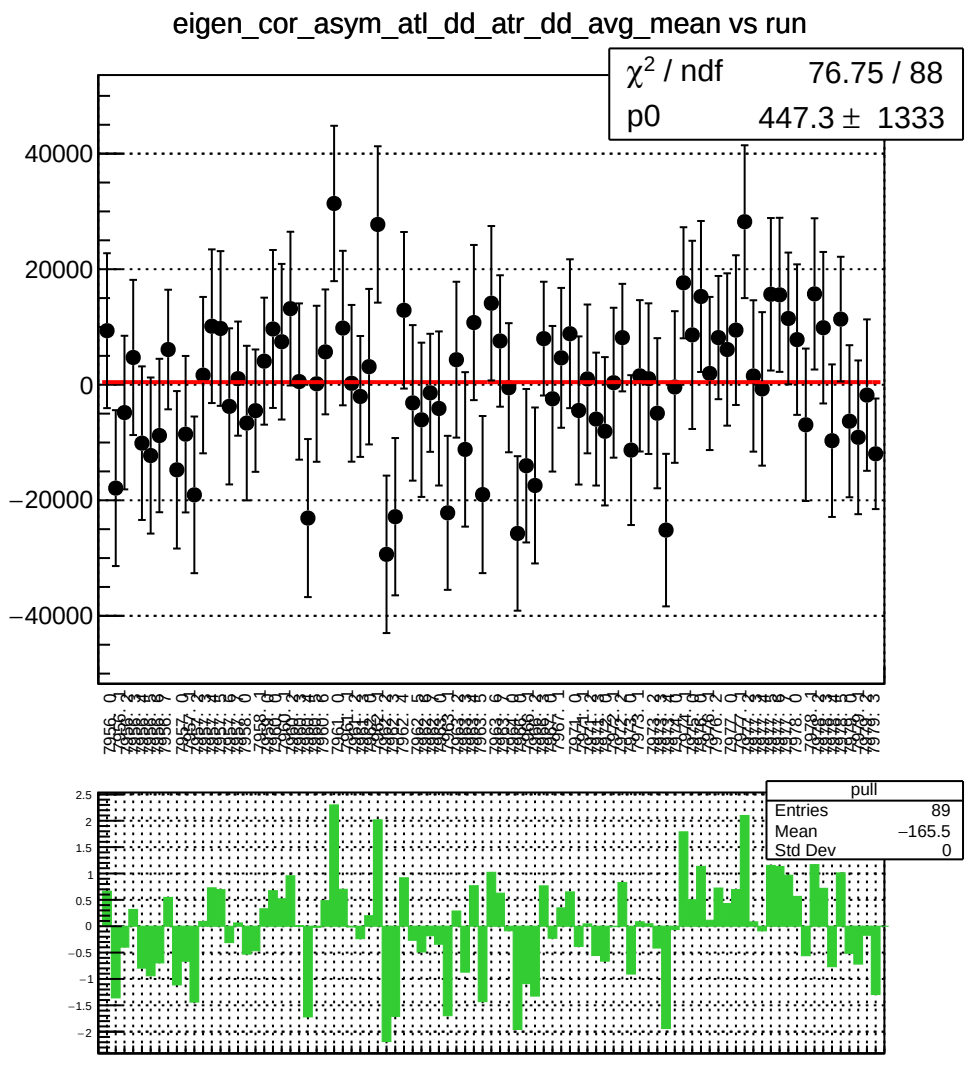

pull1D
Entries 89
Mean −0.01837
Std Dev 0.9284
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

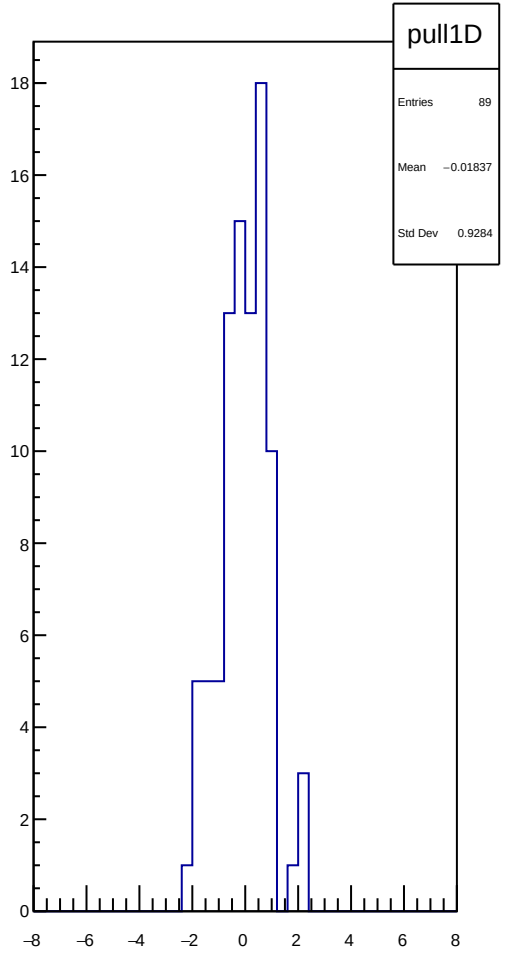

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 619.2 / 88
p0 1261 ± 0.9426
1300
1280
1260
1240
1220
1200
1180

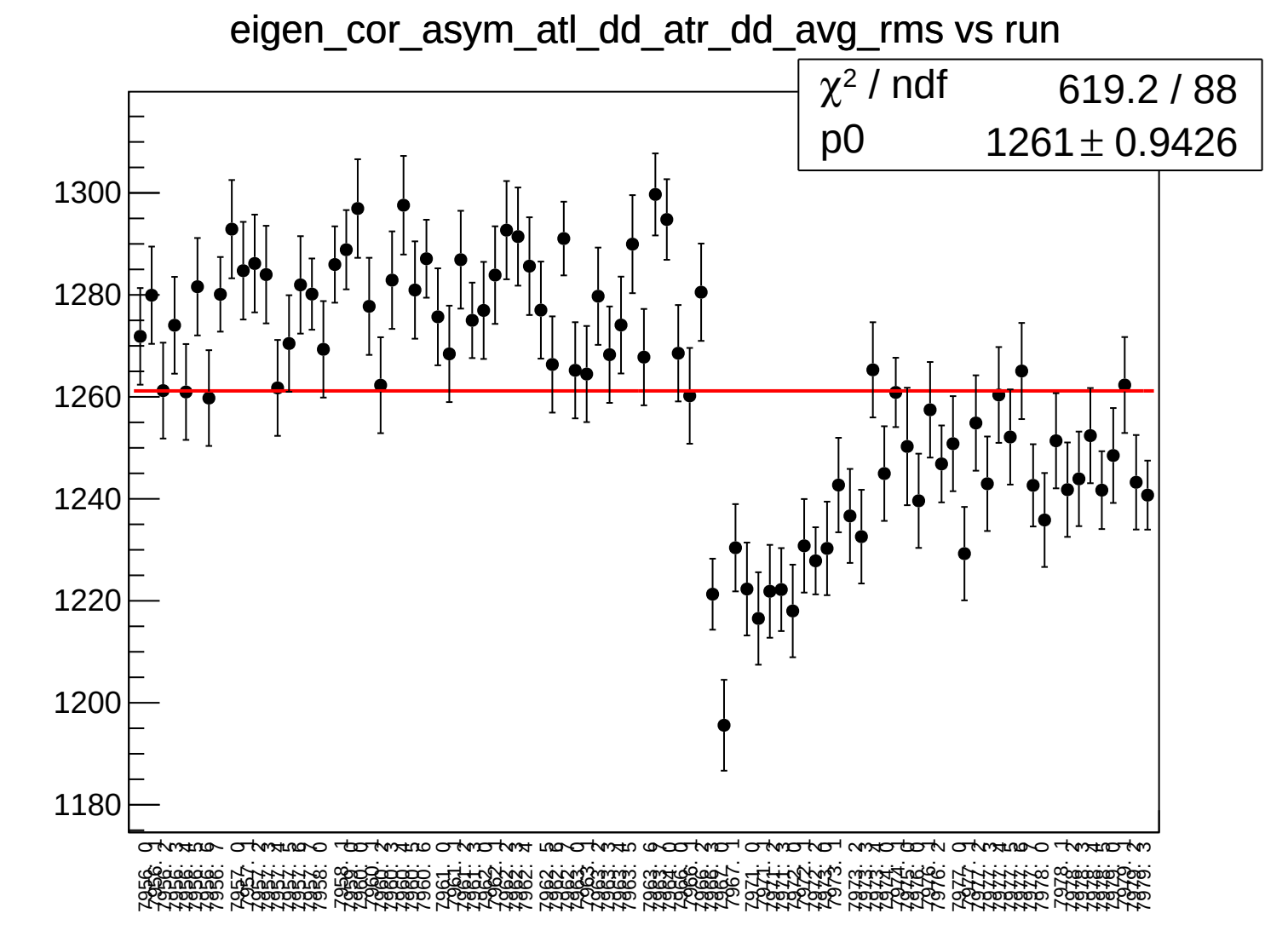

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.75 / 88
p0 −3489 ± 5634
pull
Entries 89
Mean −952.9
Std Dev 0

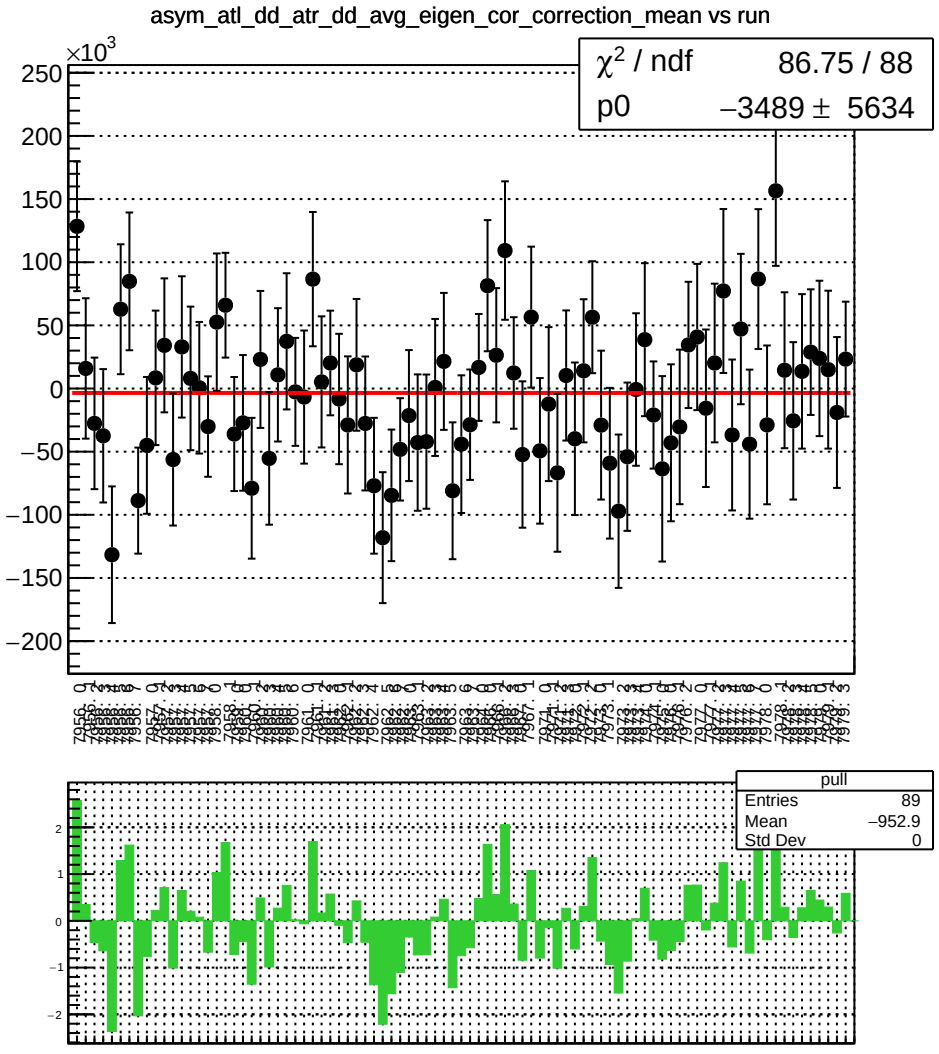

pull1D
Entries 89
Mean −0.00235
Std Dev 0.9873

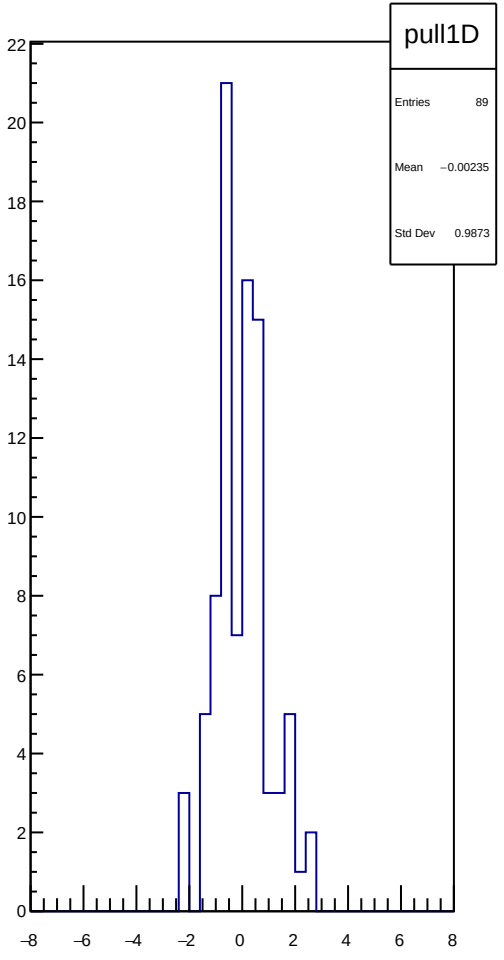

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
$\chi^2$ / ndf 7770 / 88
p0 5319 ± 3.984
6200
6000
5800
5600
5400
5200
5000
4800

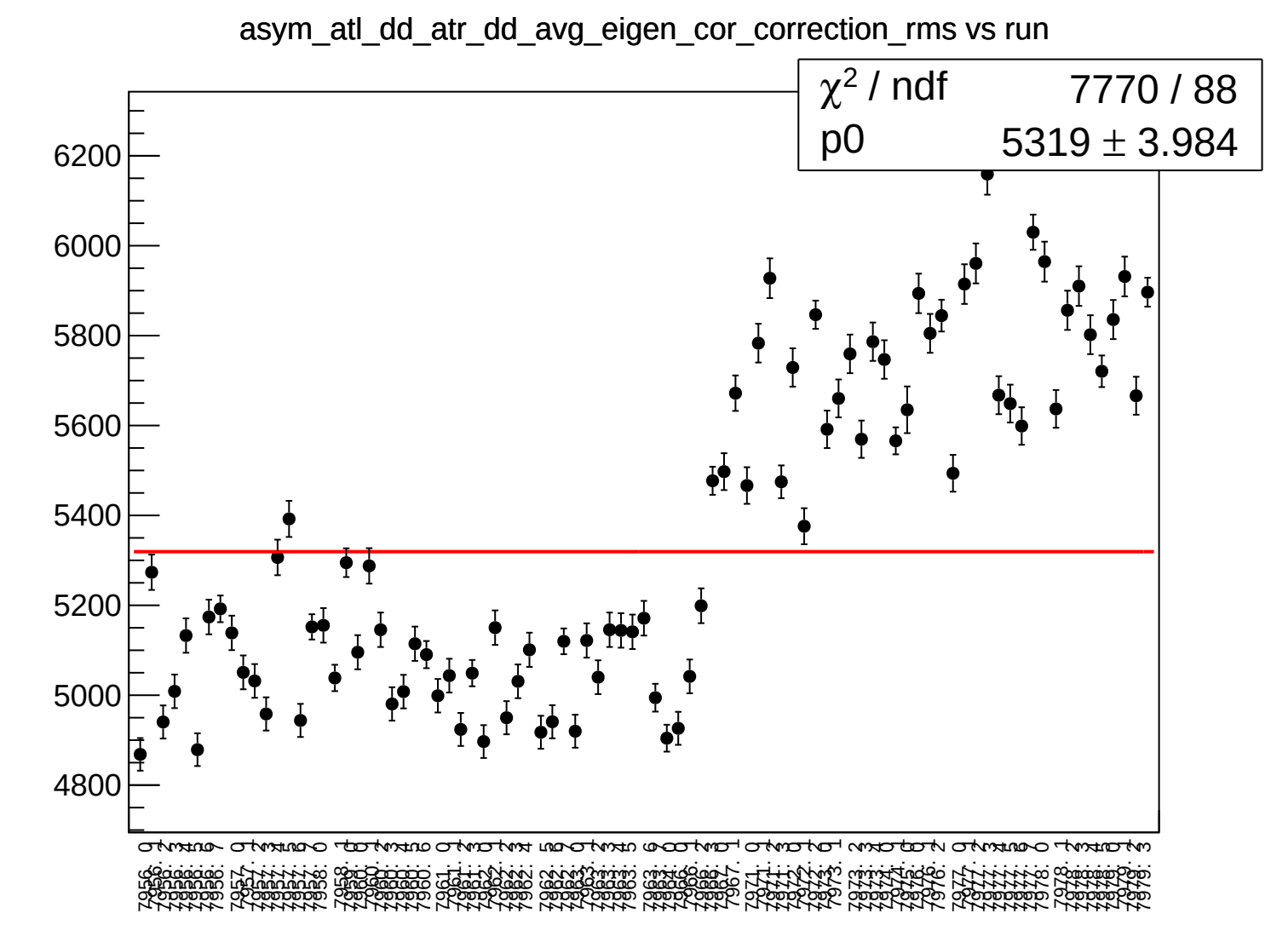

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.75 / 88
p0 447.3 ± 1333
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

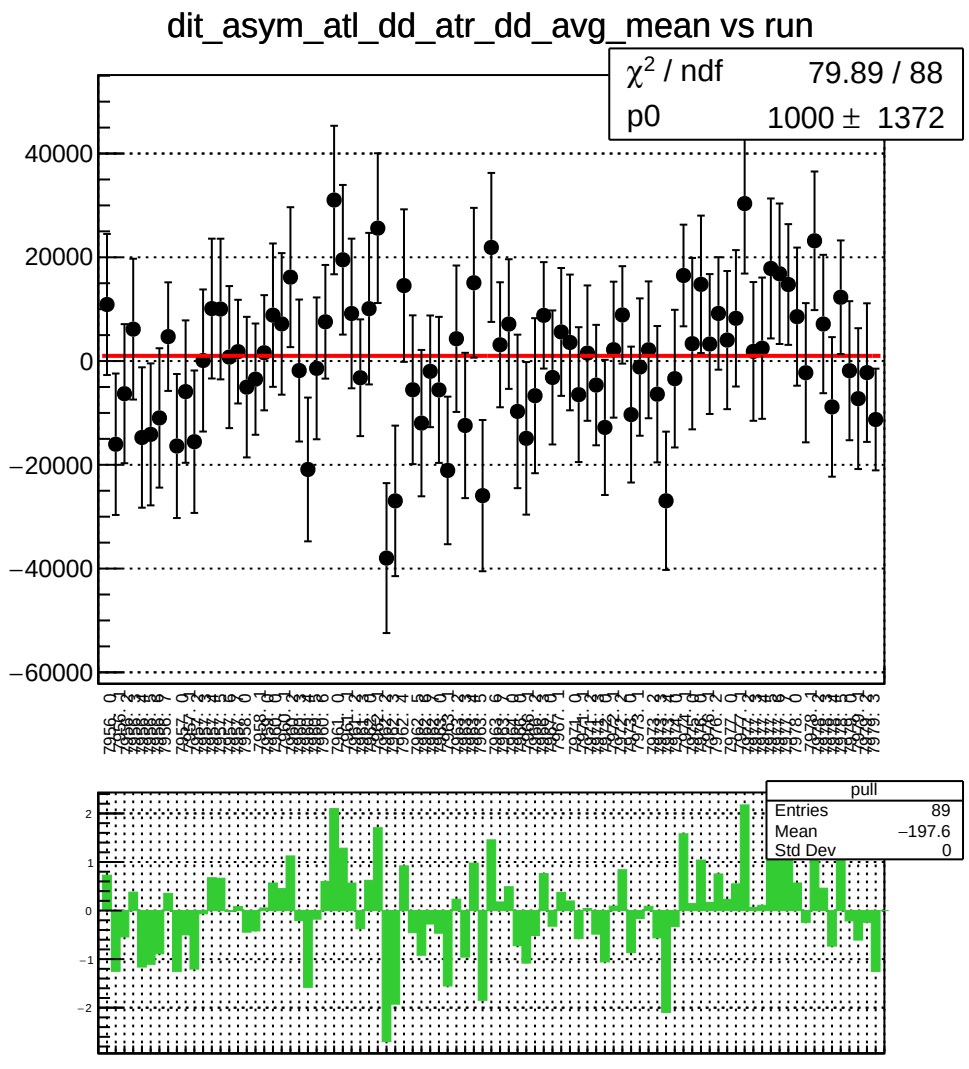

pull1D
Entries 89
Mean −0.01837
Std Dev 0.9284
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

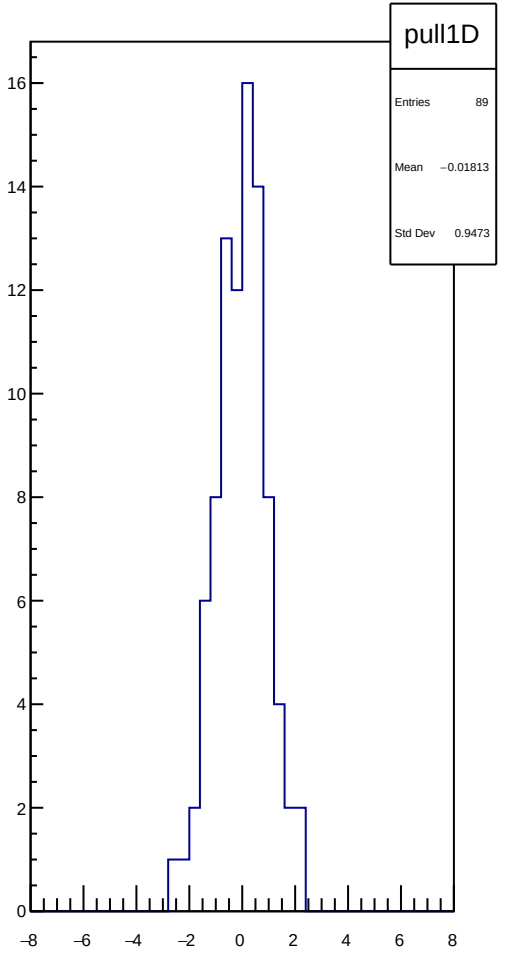

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 619.2 / 88
p0 1261 ± 0.9426
1300
1280
1260
1240
1220
1200
1180

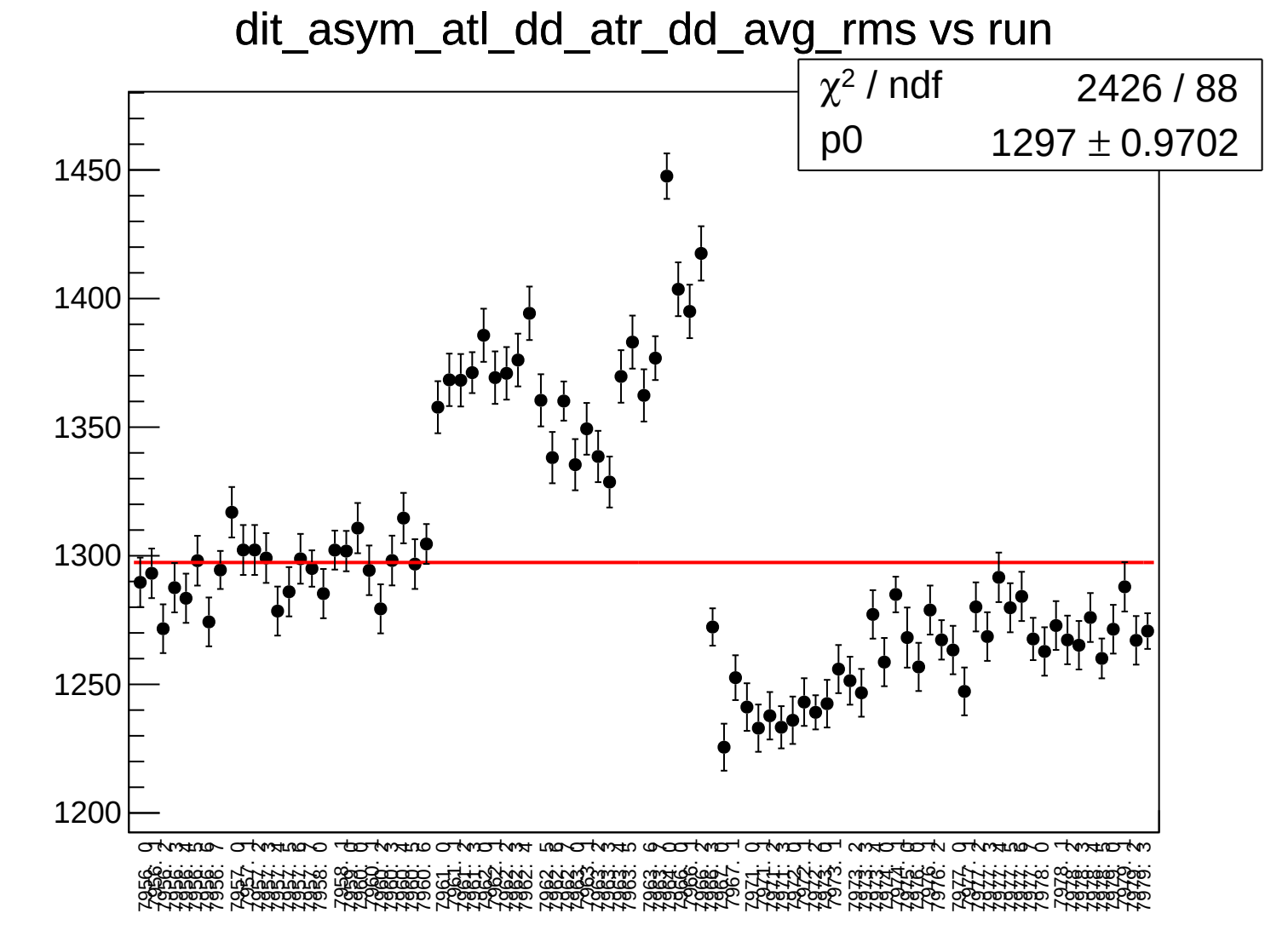

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.75 / 88
p0 −3489 ± 5634
pull
Entries 89
Mean −952.9
Std Dev 0

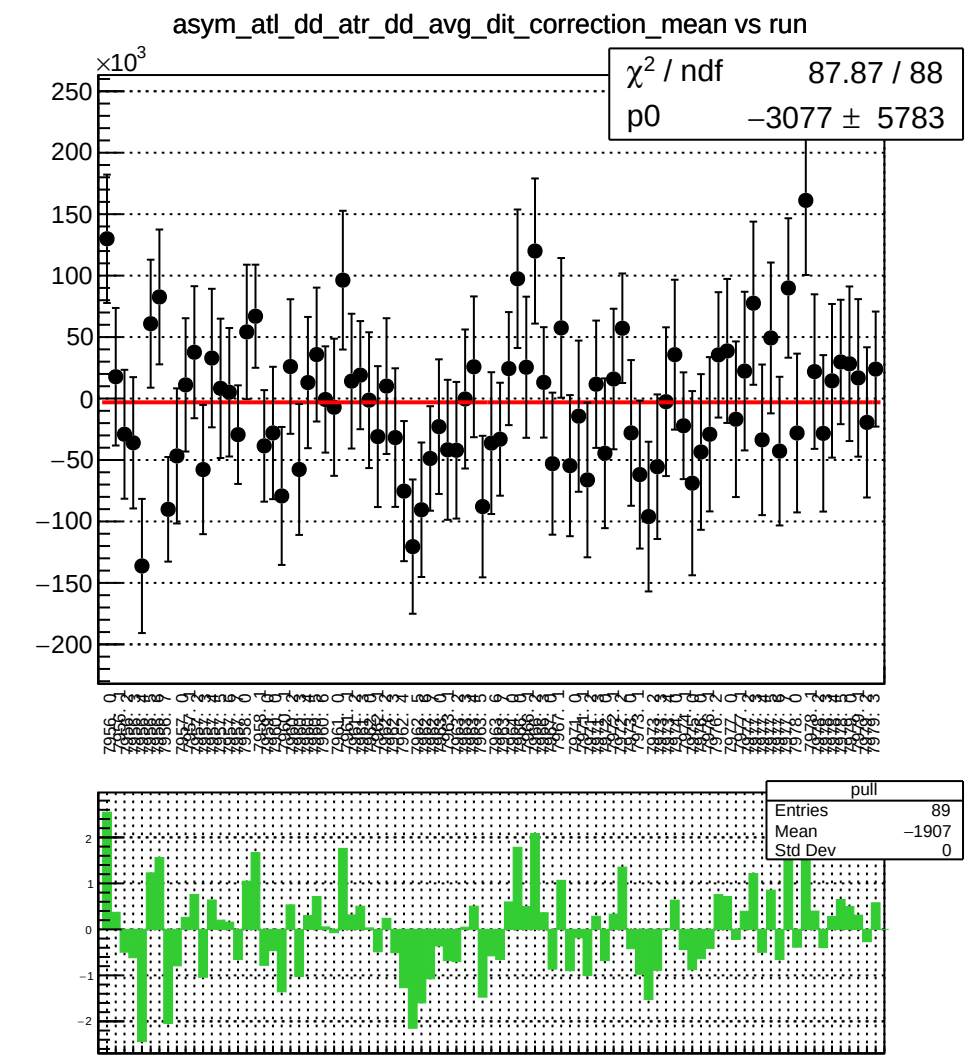

pull1D
Entries 89
Mean −0.00235
Std Dev 0.9873

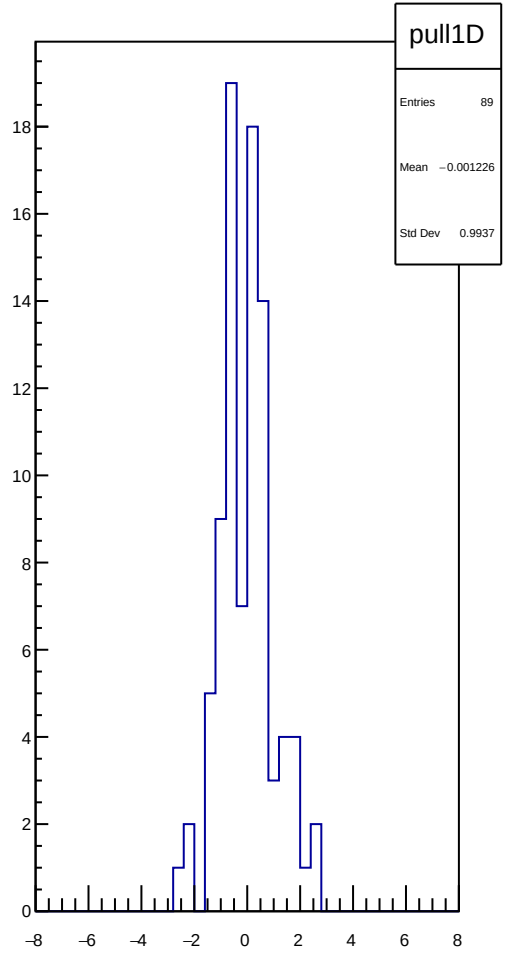

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7770 / 88
p0 5319 ± 3.984
6200
6000
5800
5600
5400
5200
5000
4800

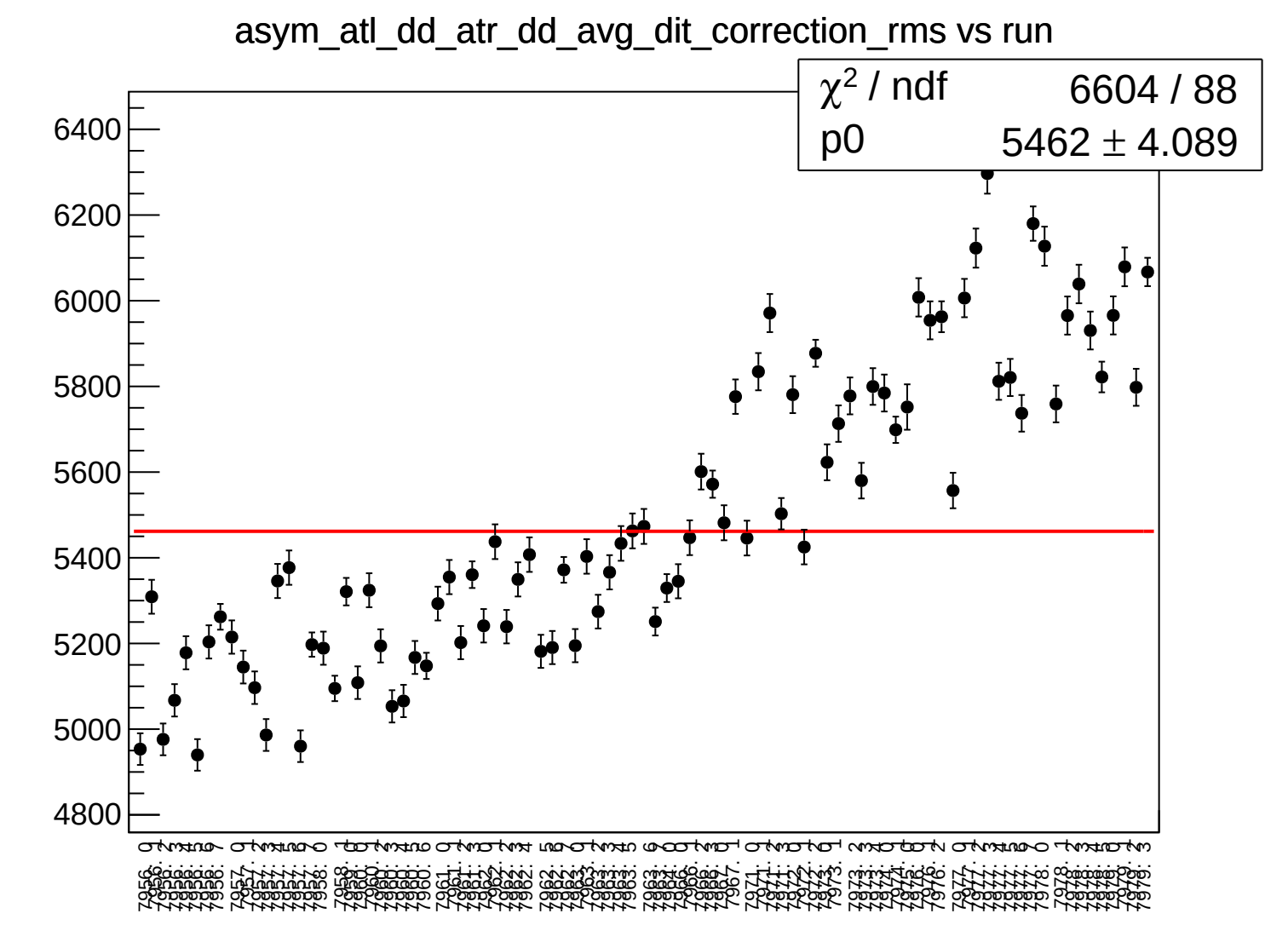

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 79.89 / 88
p0 1000 ± 1372
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −197.6
Std Dev 0
2
1
0
−1
−2

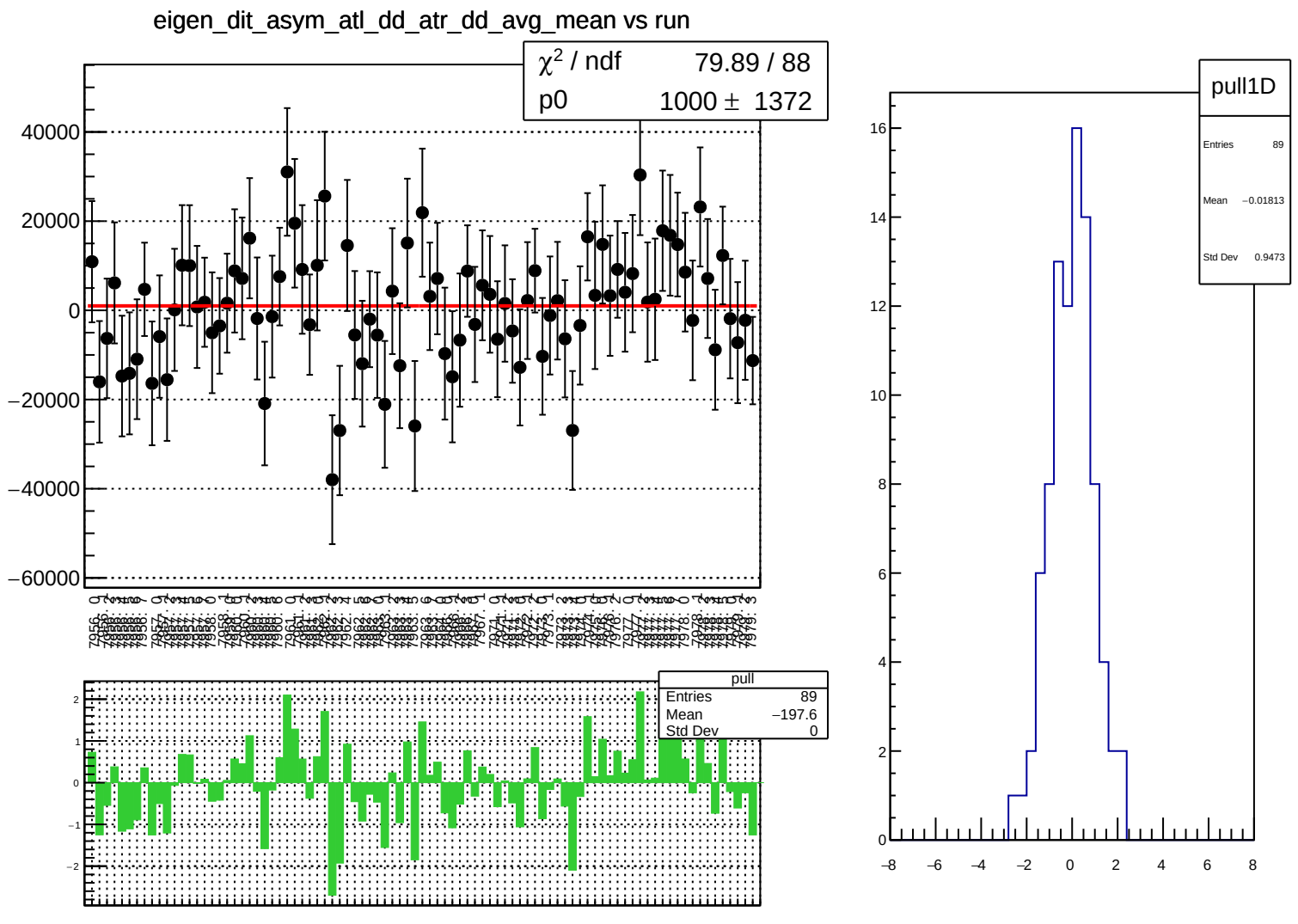

pull1D
Entries 89
Mean −0.01813
Std Dev 0.9473
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

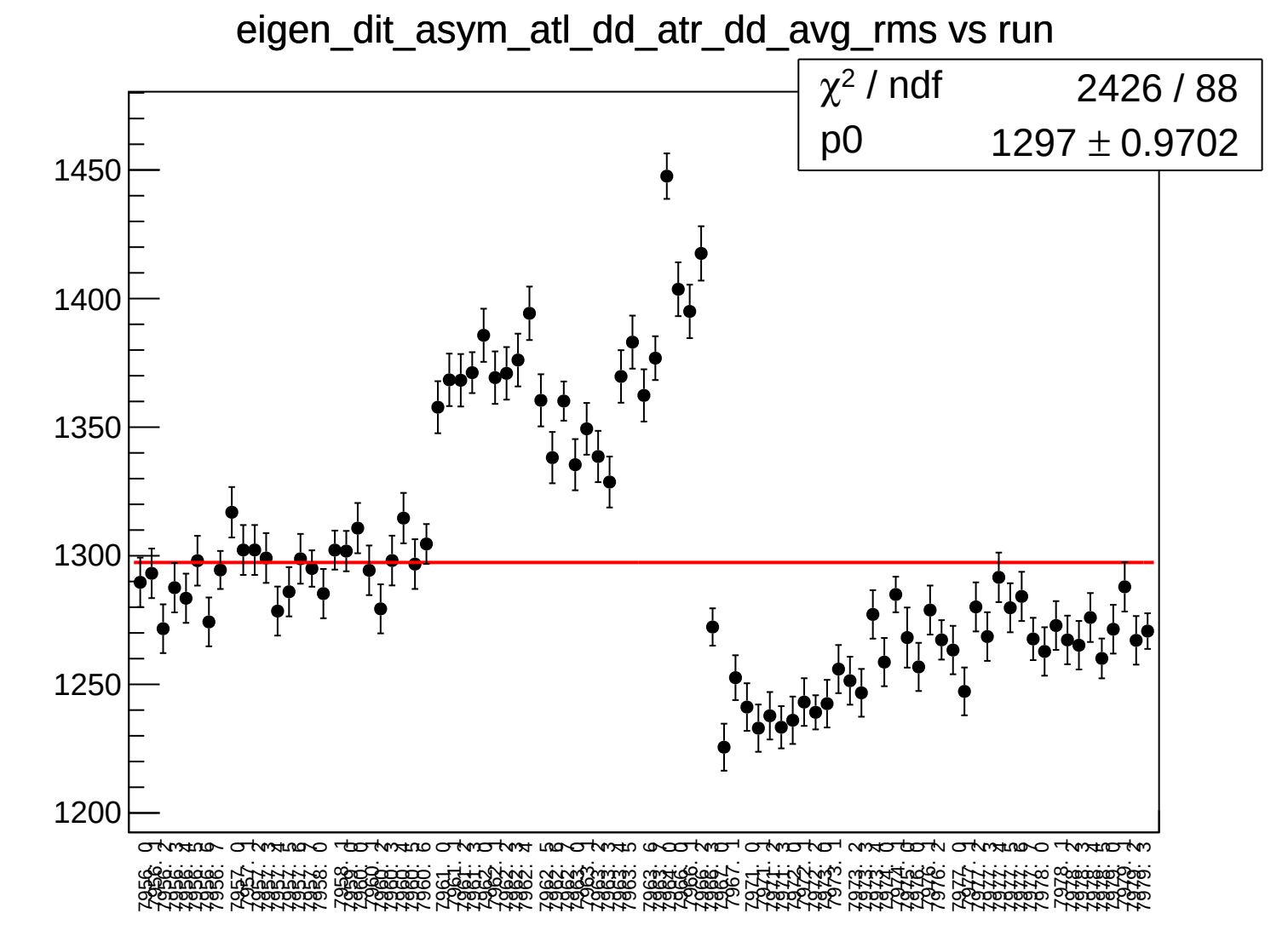

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2426 / 88
p0 1297 ± 0.9702
1450
1400
1350
1300
1250
1200

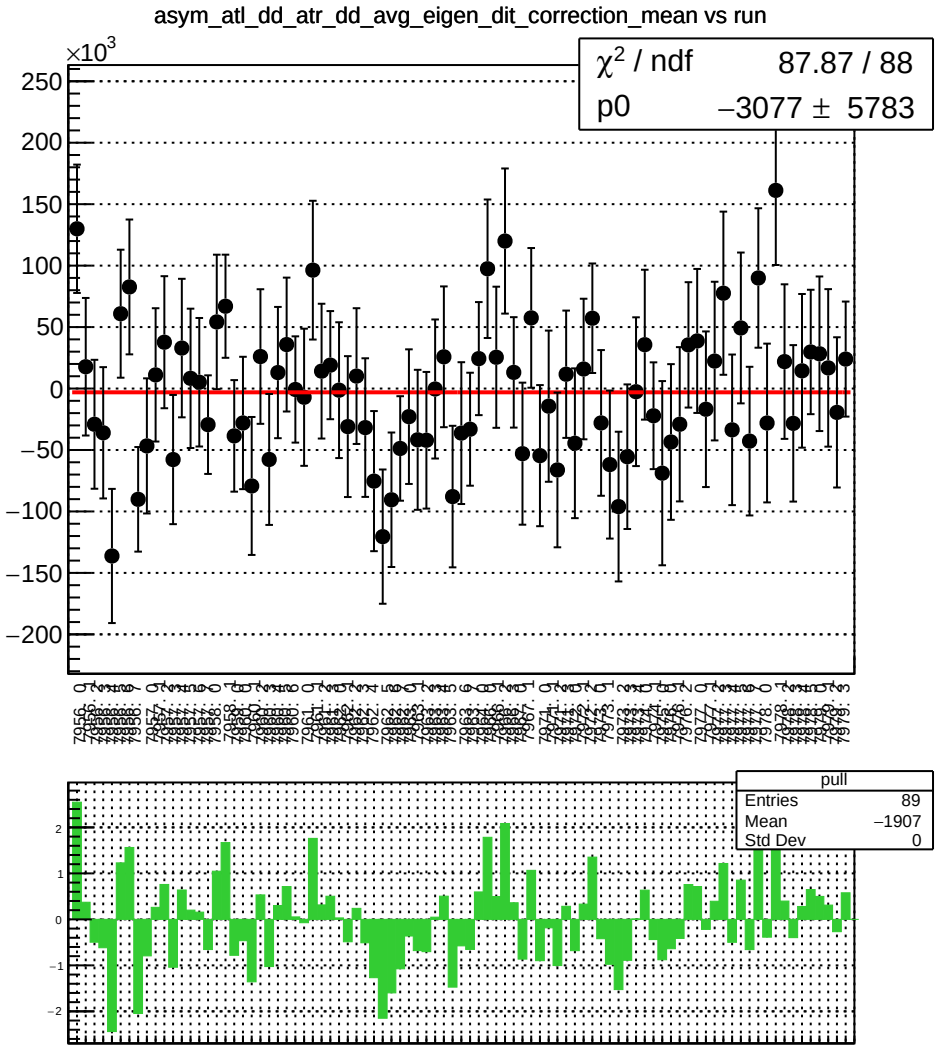

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.87 / 88
p0 −3077 ± 5783
pull
Entries 89
Mean −1907
Std Dev 0

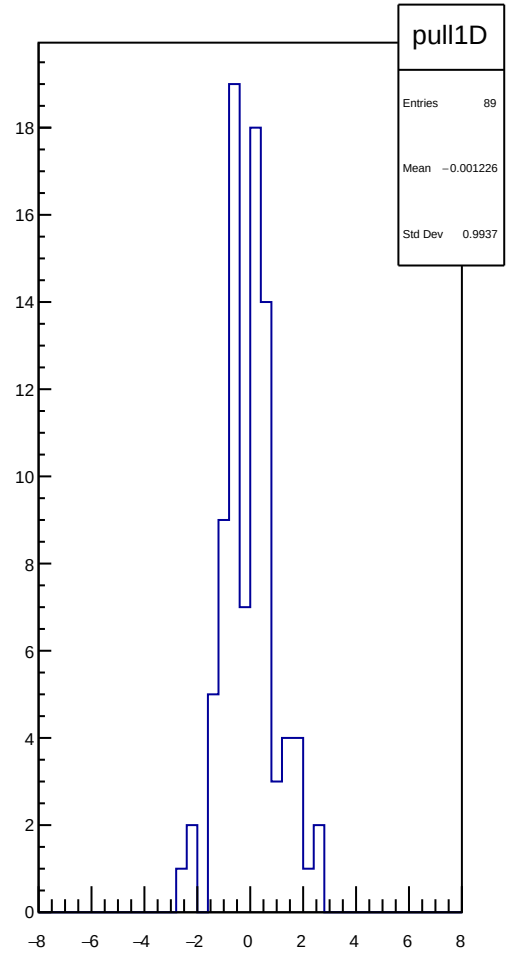

pull1D
Entries 89
Mean −0.001226
Std Dev 0.9937

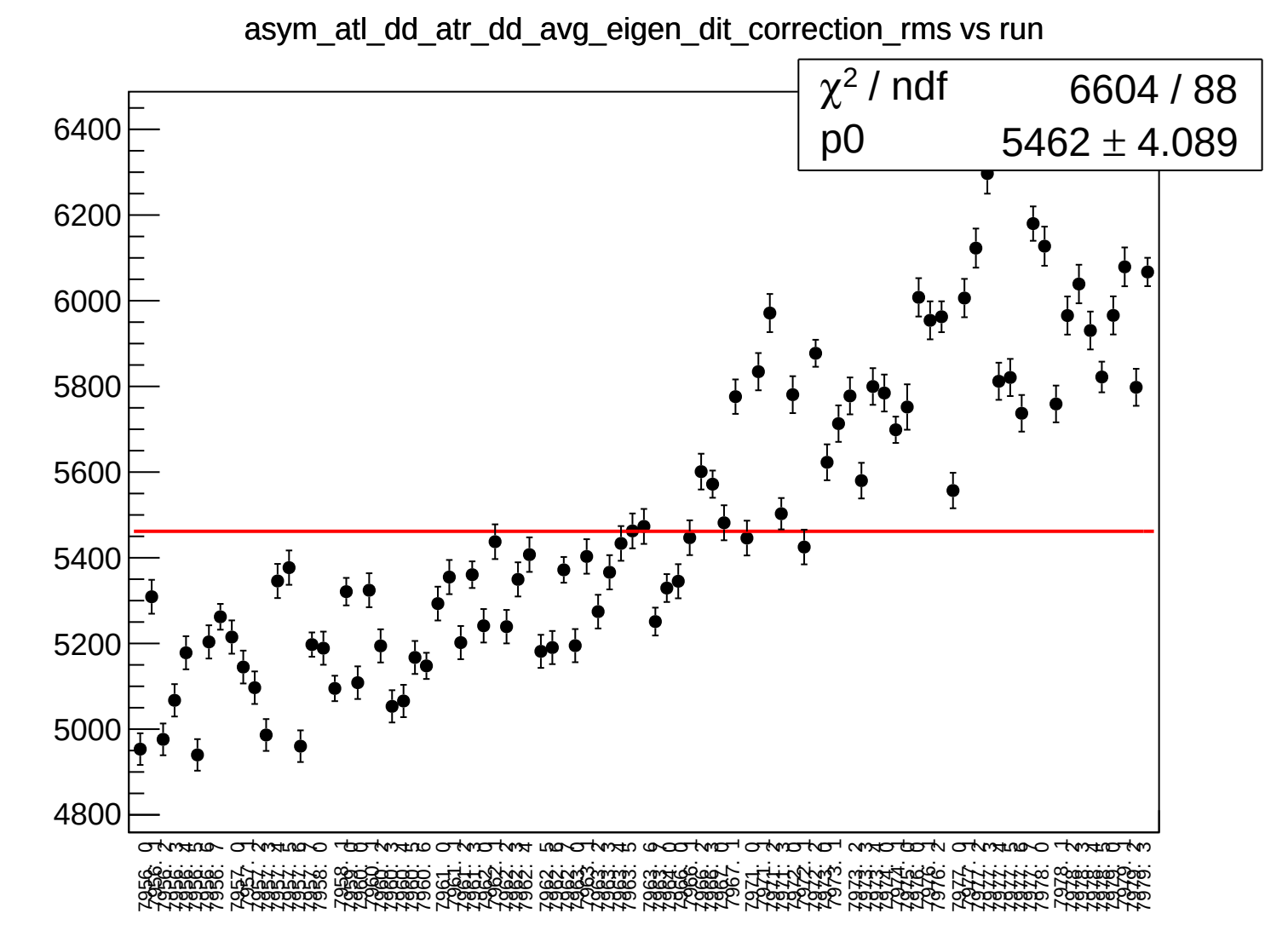

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 6604 / 88
p0 5462 ± 4.089
6400
6200
6000
5800
5600
5400
5200
5000
4800

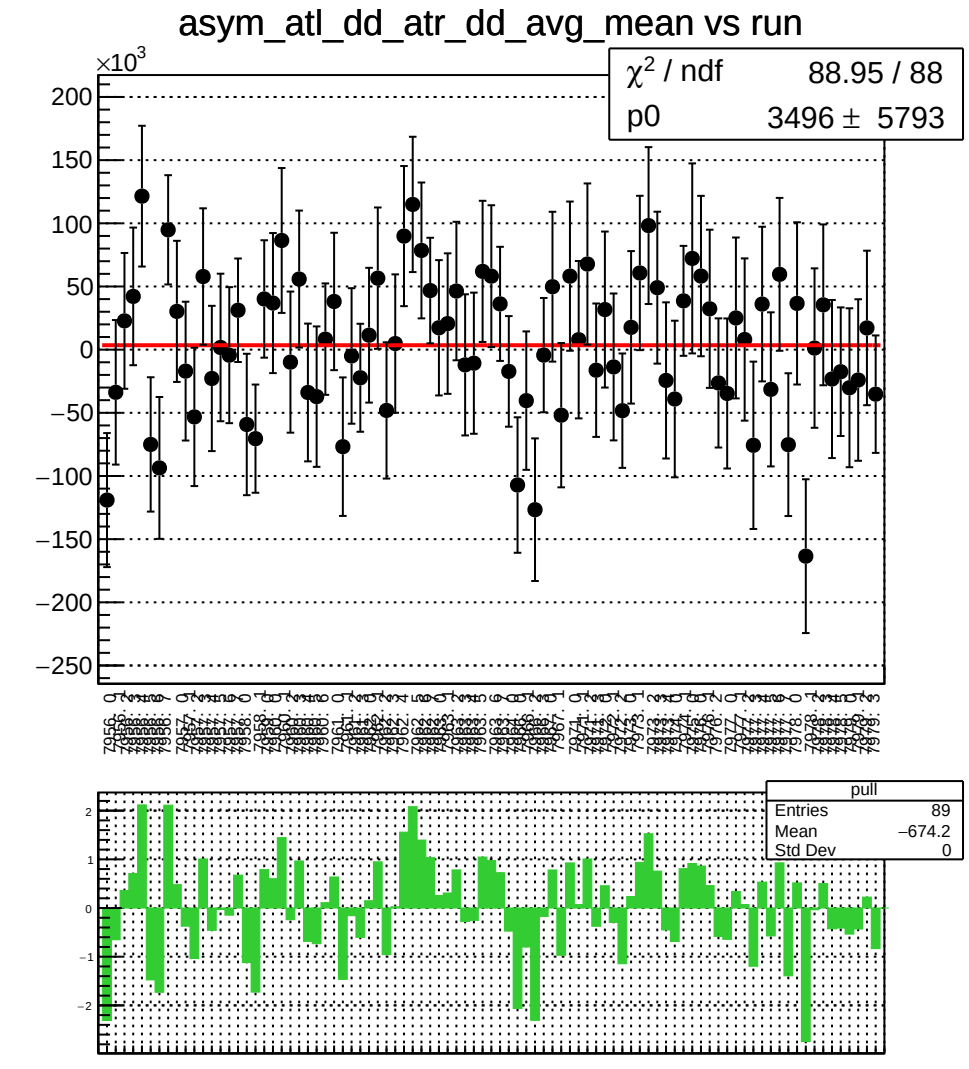

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 79.89 / 88
p0 1000 ± 1372
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −197.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01813
Std Dev 0.9473
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

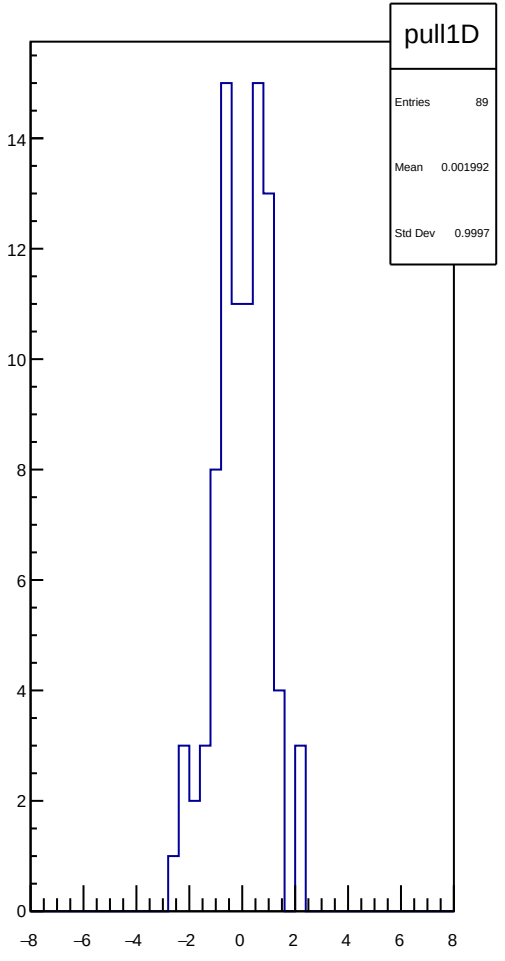

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2426 / 88
p0 1297 ± 0.9702
1450
1400
1350
1300
1250
1200

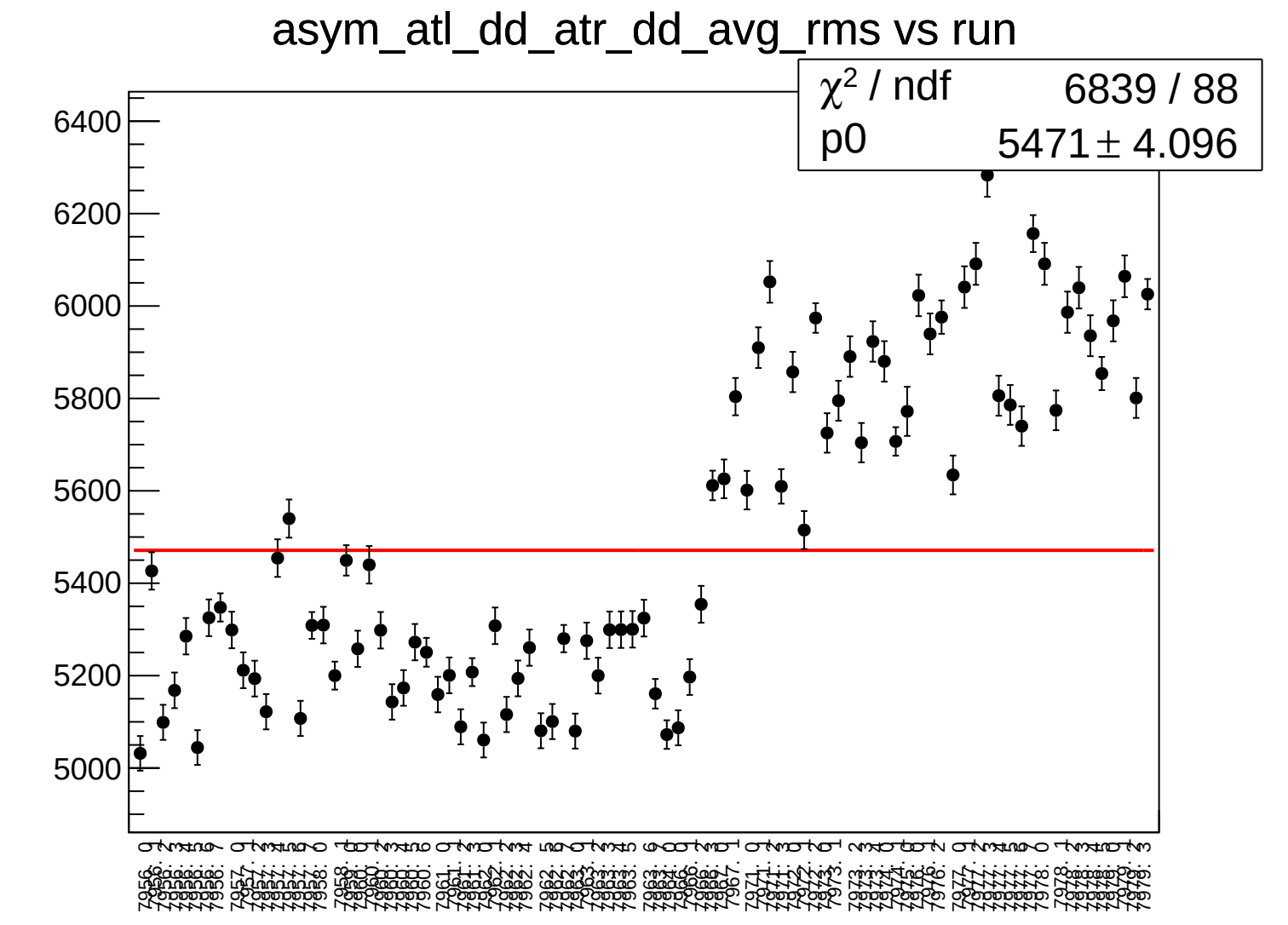

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.87 / 88
p0 −3077 ± 5783
pull
Entries 89
Mean −1907
Std Dev 0

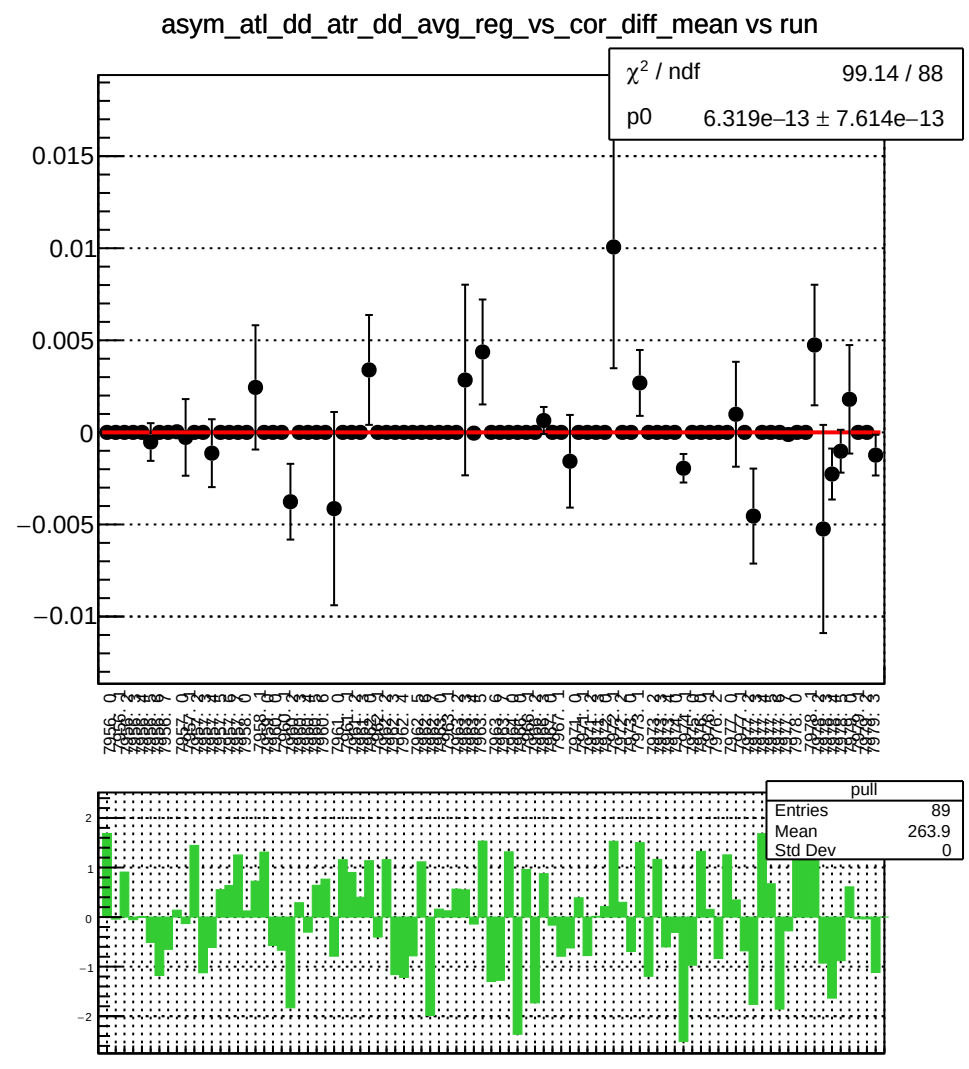

pull1D
Entries 89
Mean −0.001226
Std Dev 0.9937

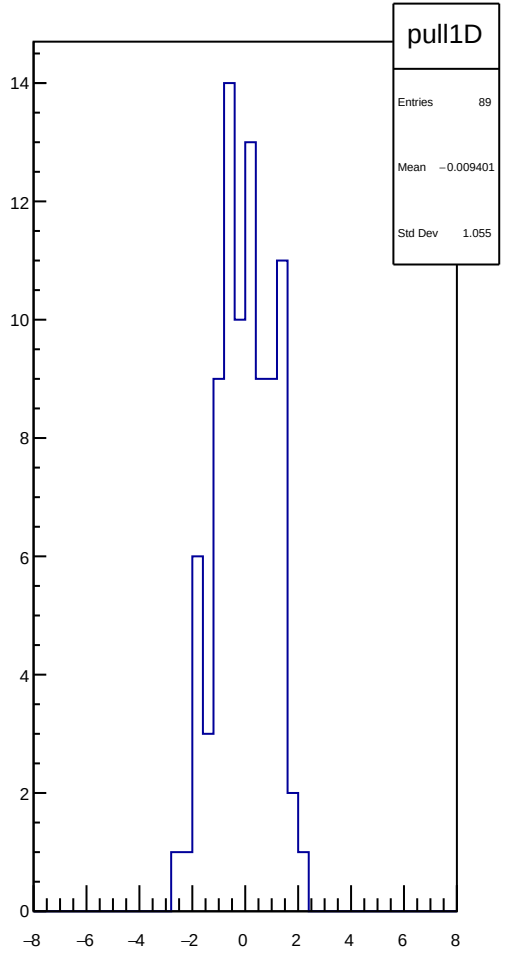

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6604 / 88
p0 5462 ± 4.089
6400
6200
6000
5800
5600
5400
5200
5000
4800

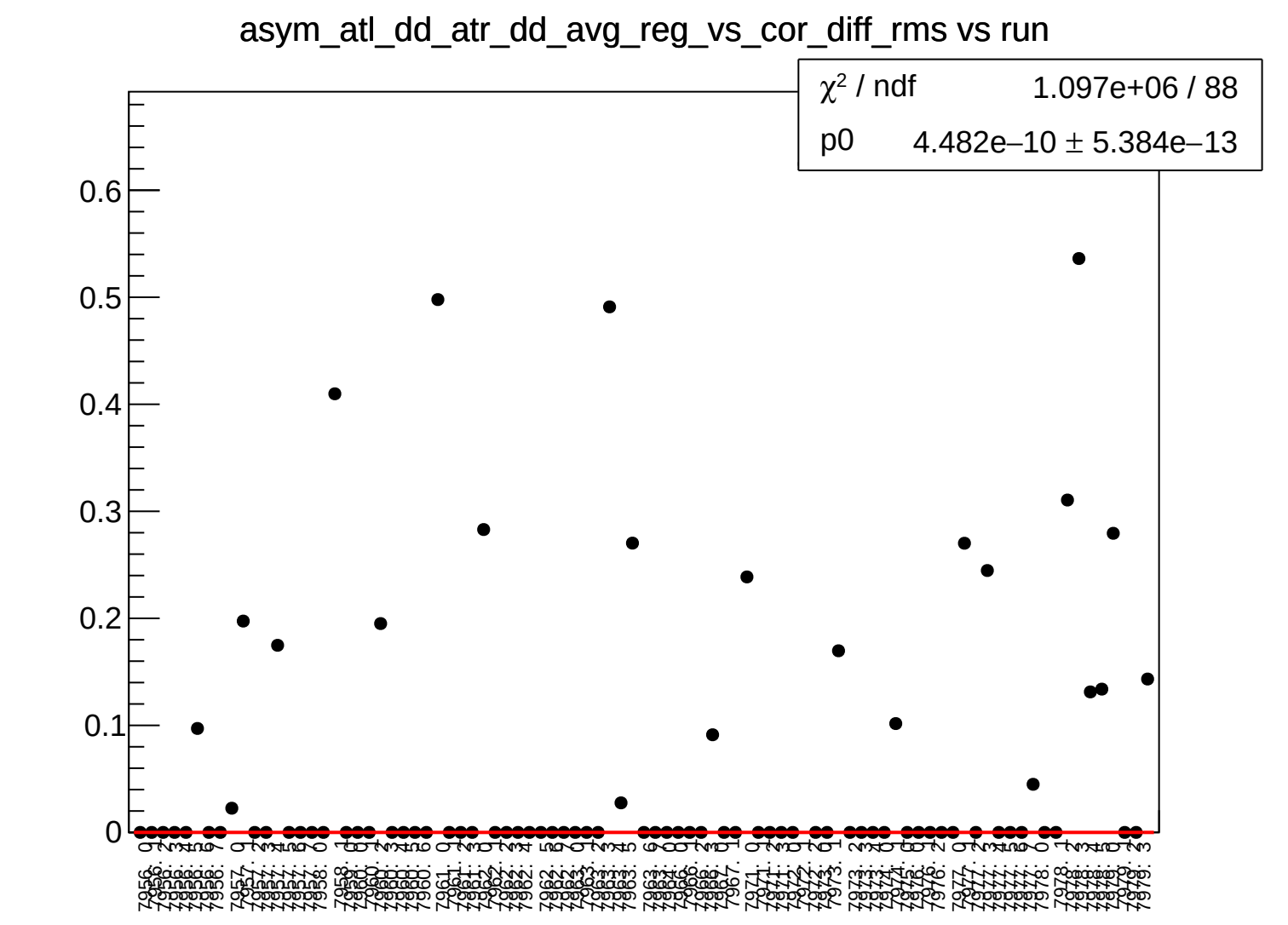

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 88.95 / 88
p0 3496 ± 5793
pull
Entries 89
Mean −674.2
Std Dev 0

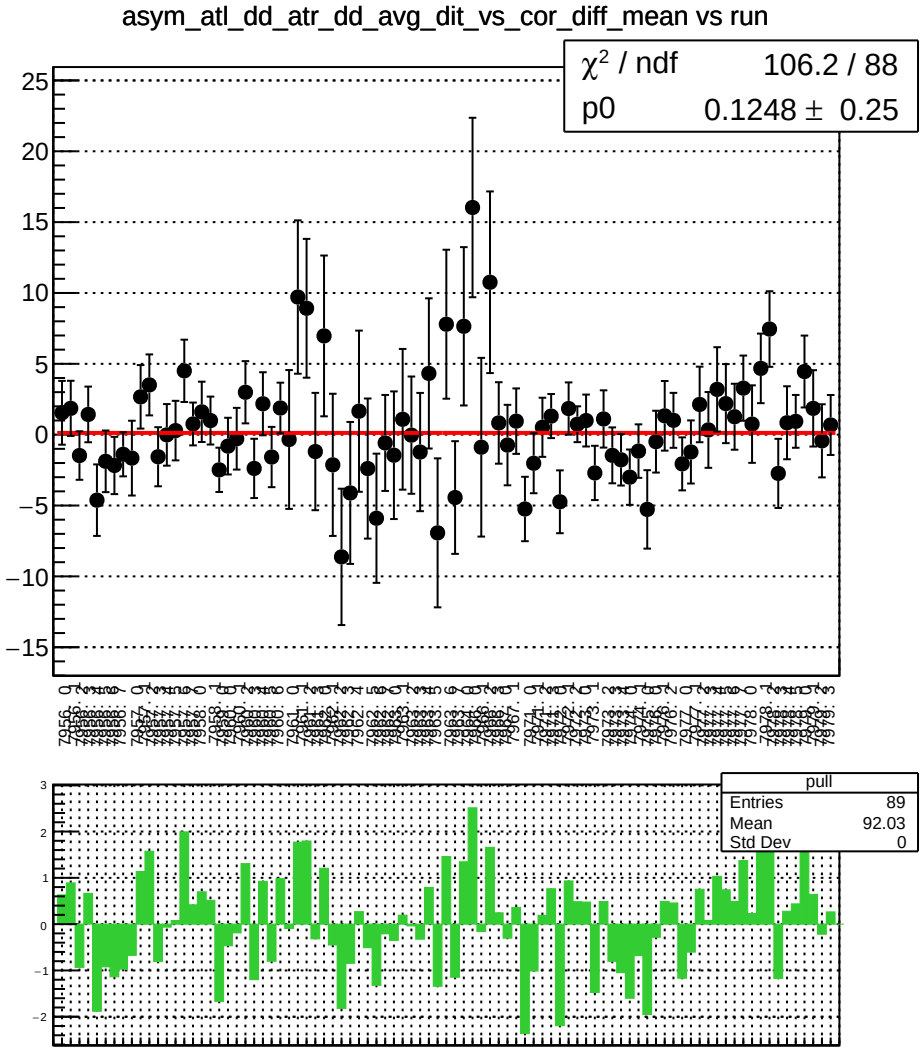

pull1D
Entries 89
Mean 0.001992
Std Dev 0.9997

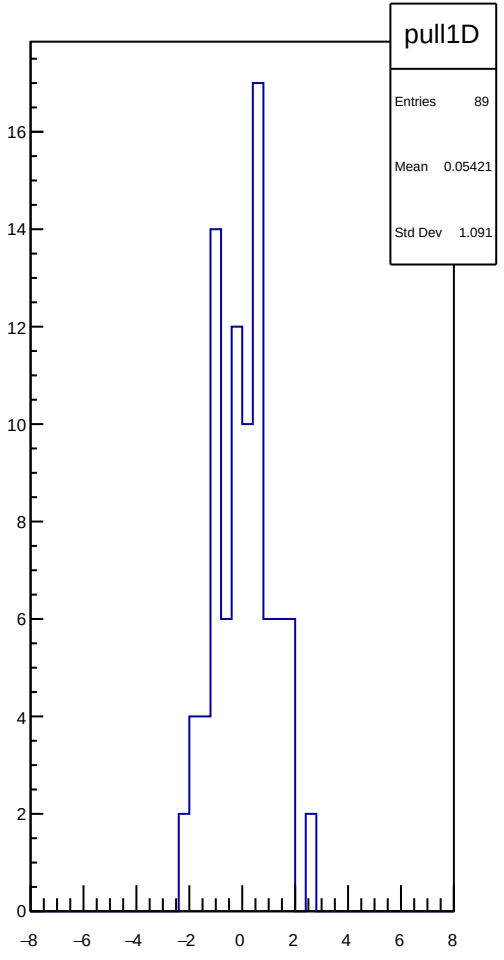

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 6839 / 88
p0 5471 ± 4.096
6400
6200
6000
5800
5600
5400
5200
5000

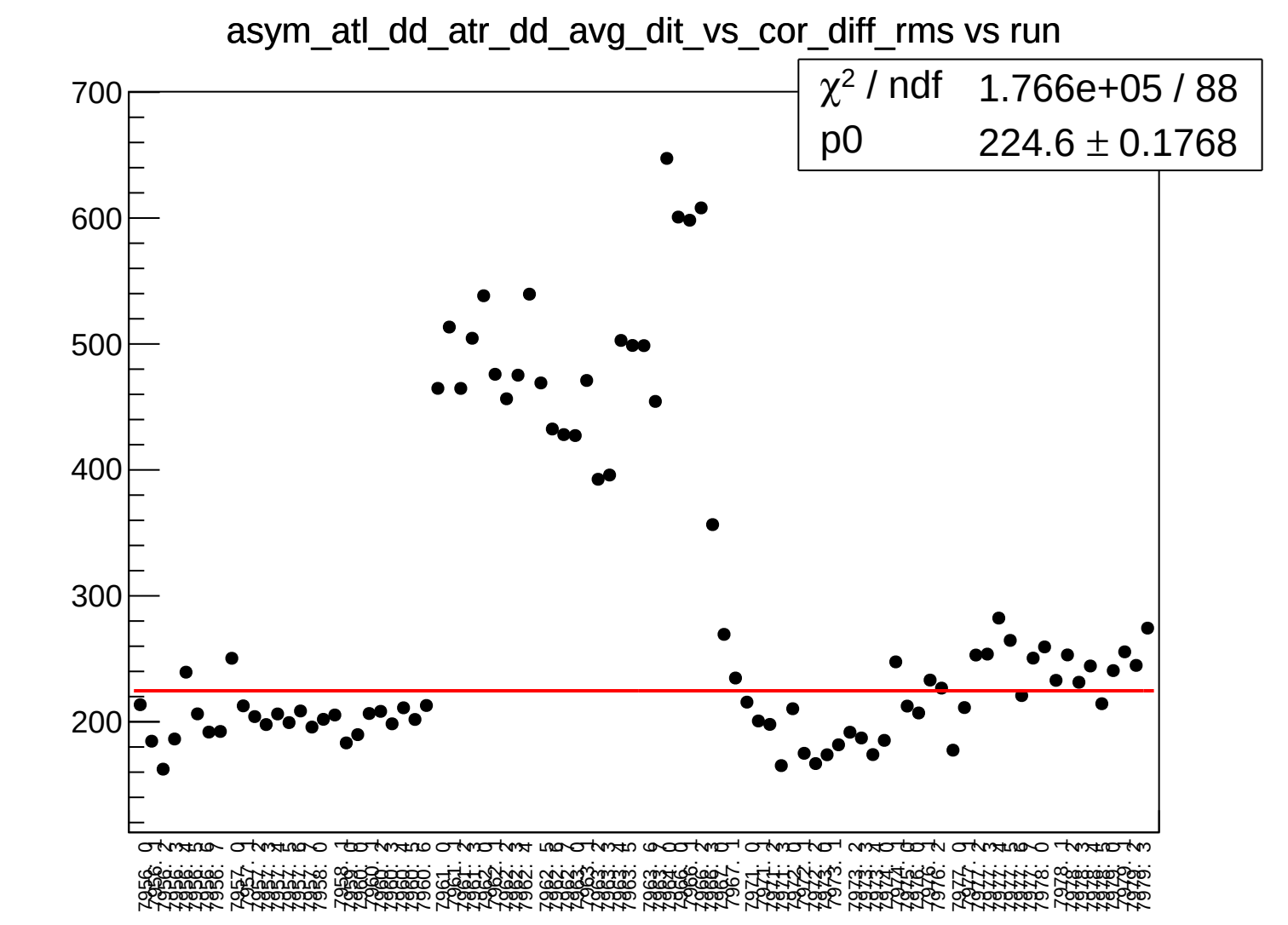

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.14 / 88
p0 6.319e−13 ± 7.614e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 263.9
Std Dev 0
2
1
0
−1
−2

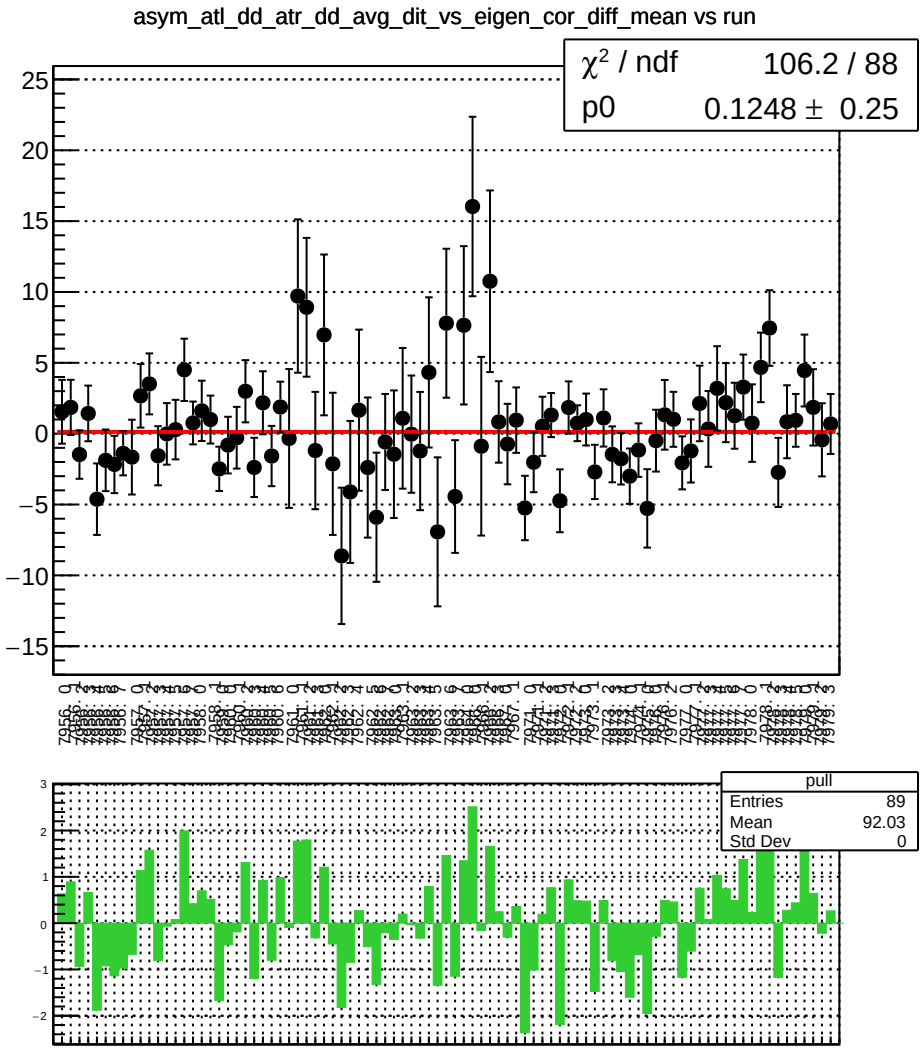

pull1D
Entries 89
Mean −0.009401
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

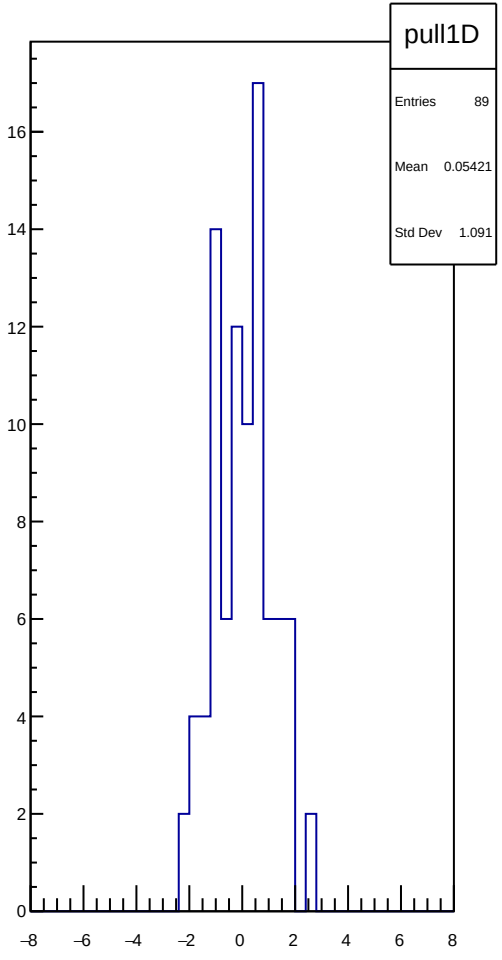

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.097e+06 / 88
p0 4.482e−10 ± 5.384e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

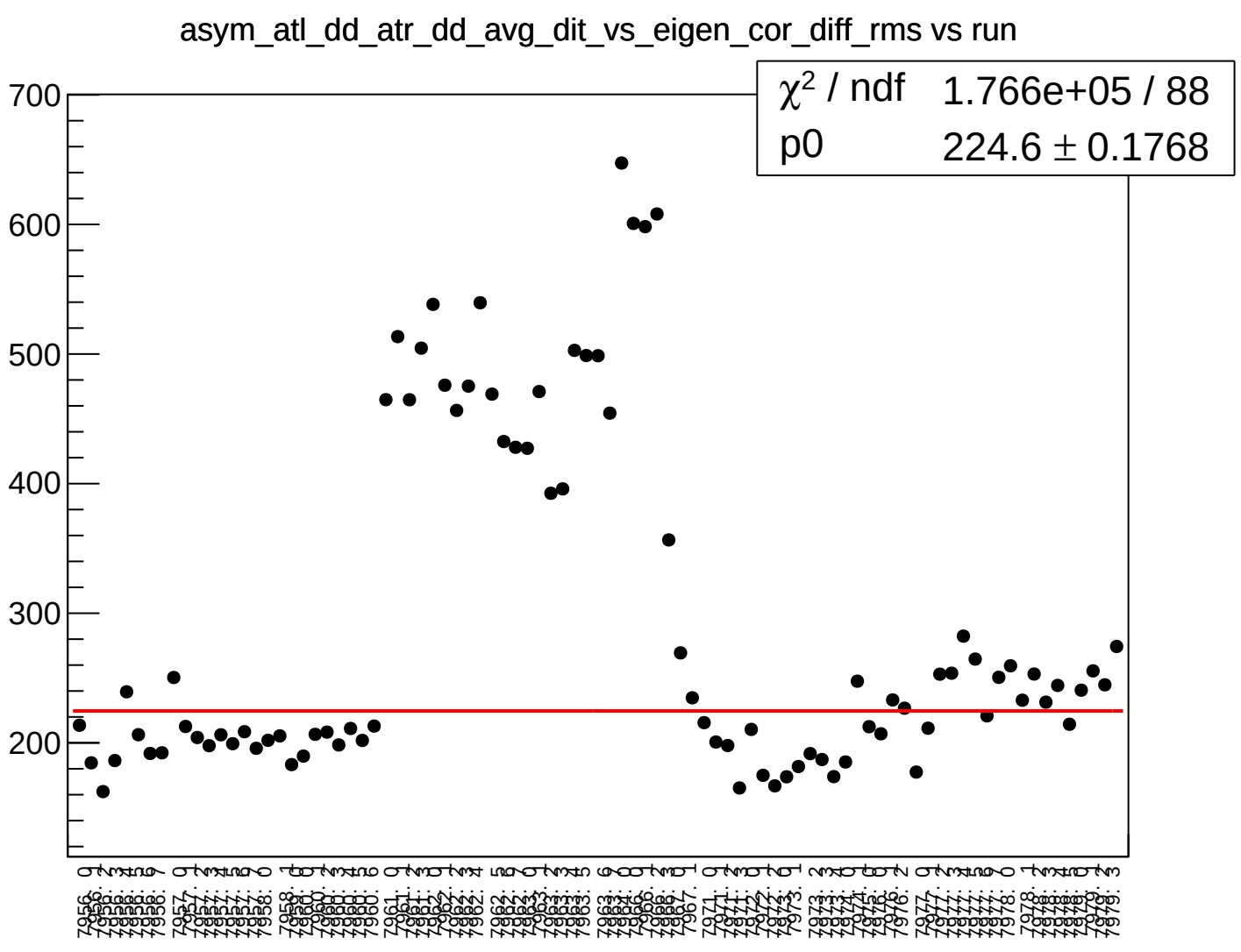

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 88
p0 0.1248 ± 0.25
pull
Entries 89
Mean 92.03
Std Dev 0

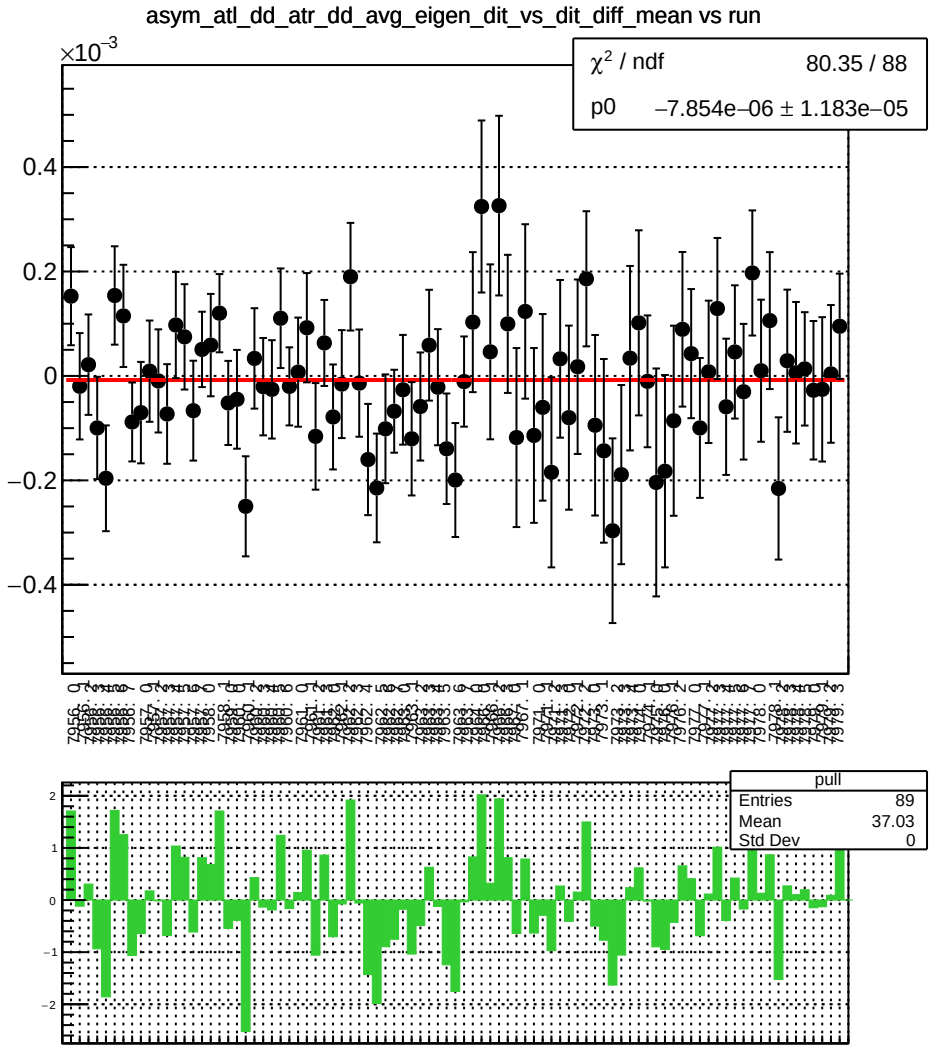

pull1D
Entries 89
Mean 0.05421
Std Dev 1.091

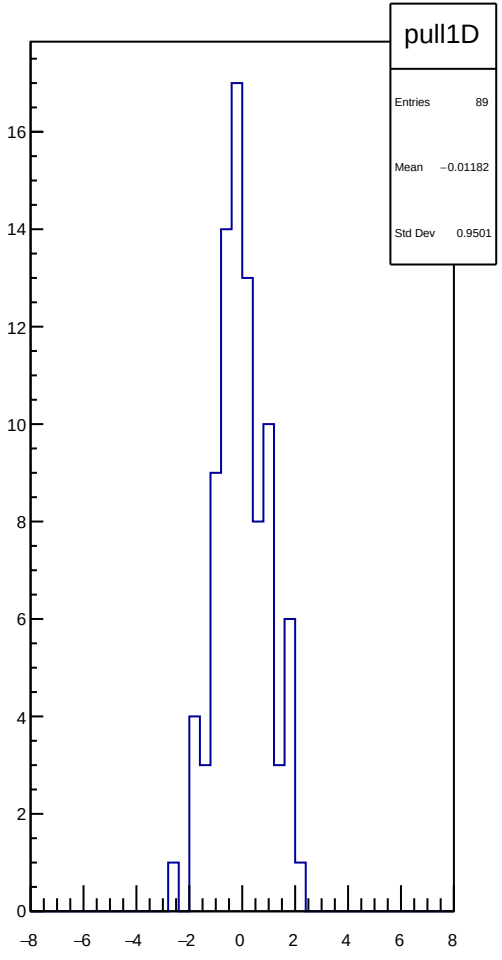

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 88
p0 224.6 ± 0.1768
700
600
500
400
300
200

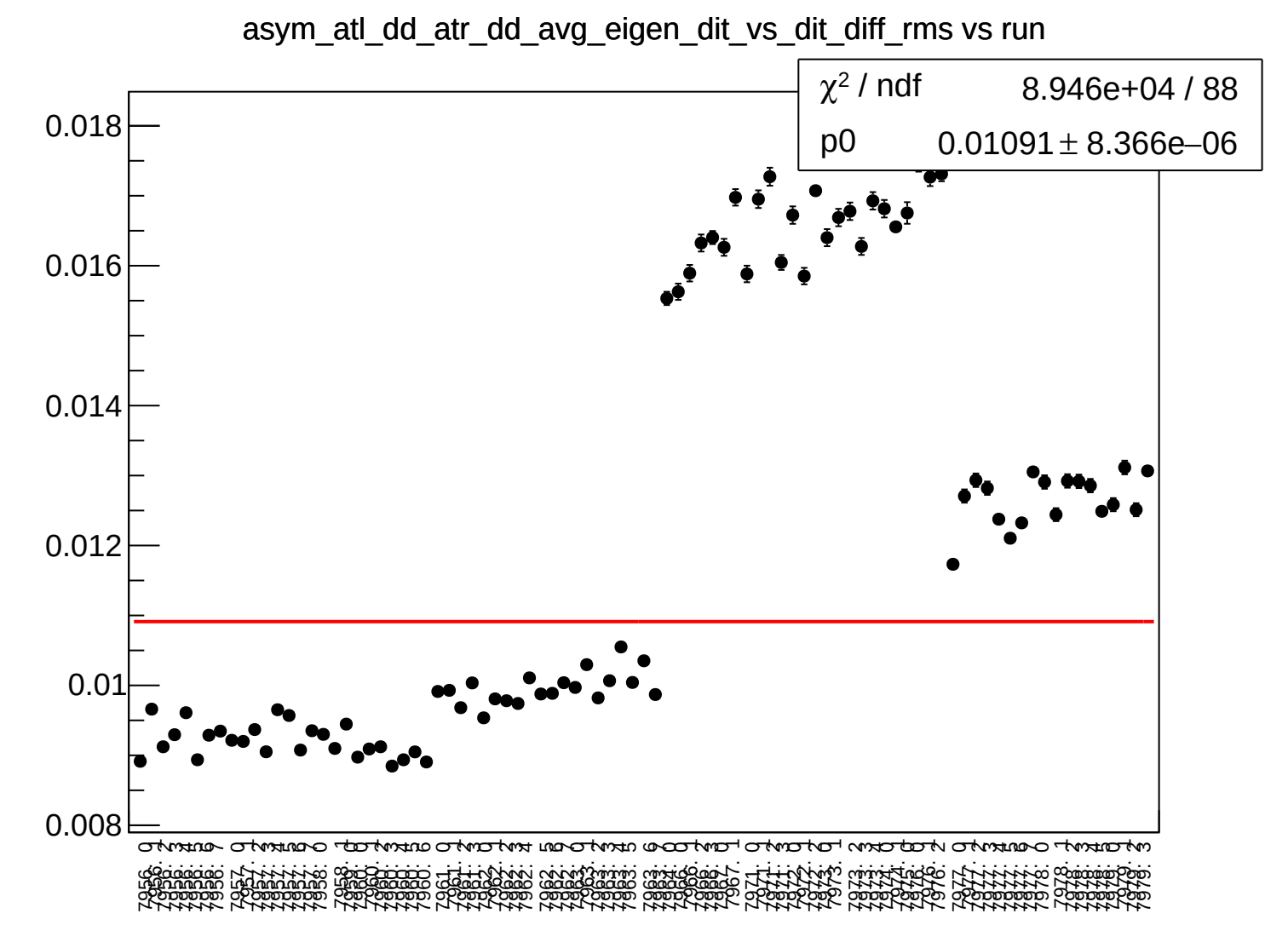

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 88
p0 0.1248 ± 0.25
pull
Entries 89
Mean 92.03
Std Dev 0

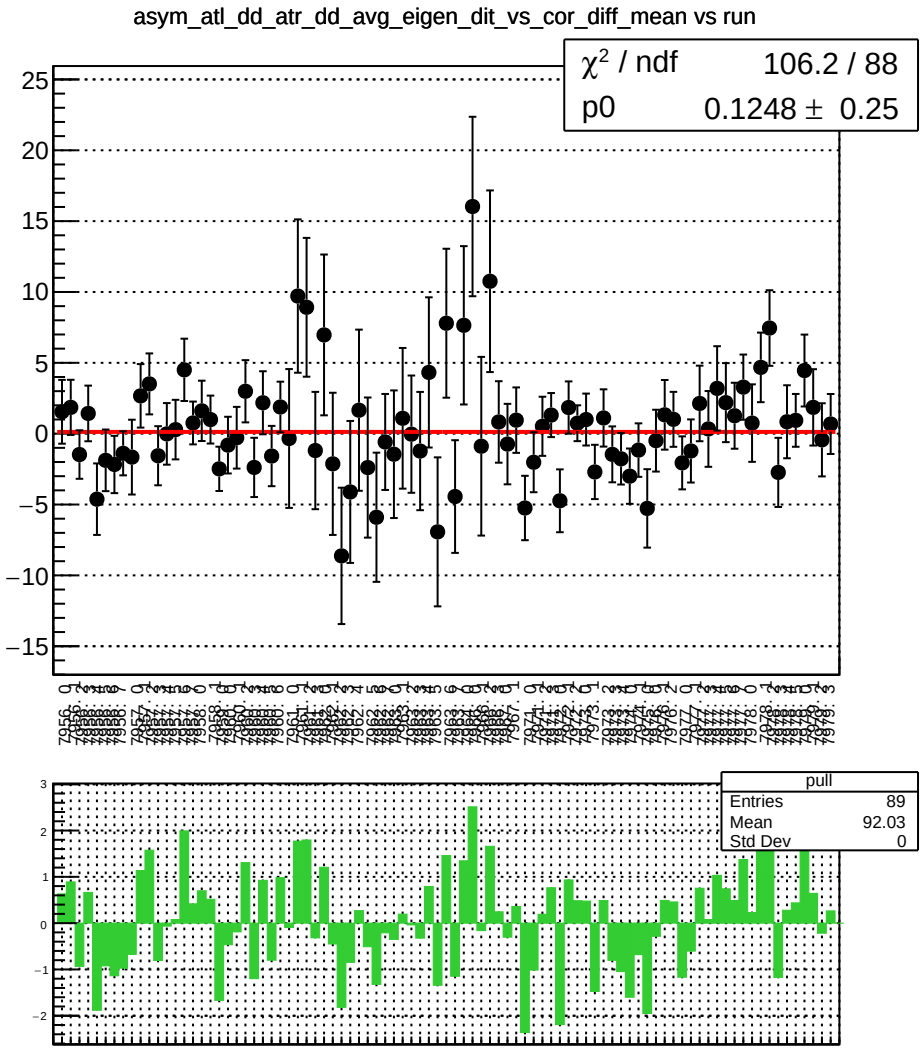

pull1D
Entries 89
Mean 0.05421
Std Dev 1.091

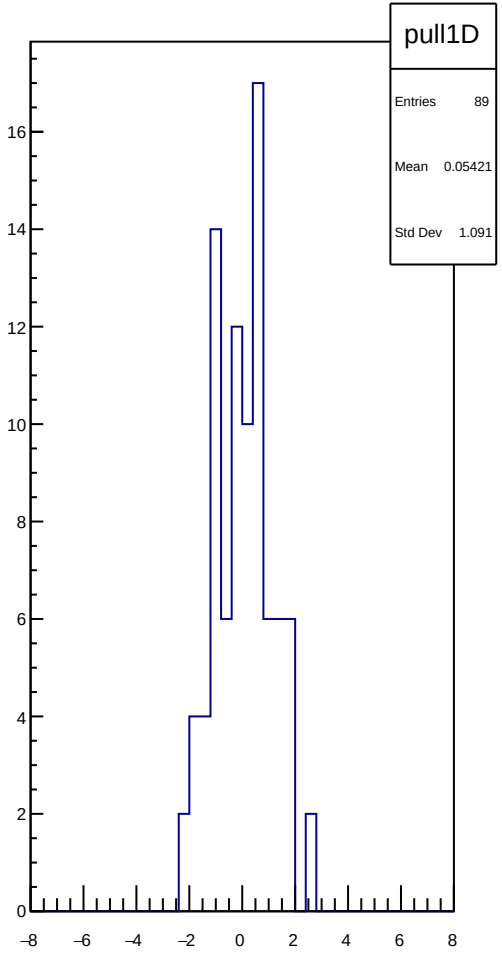

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 88
p0 224.6 ± 0.1768
700
600
500
400
300
200

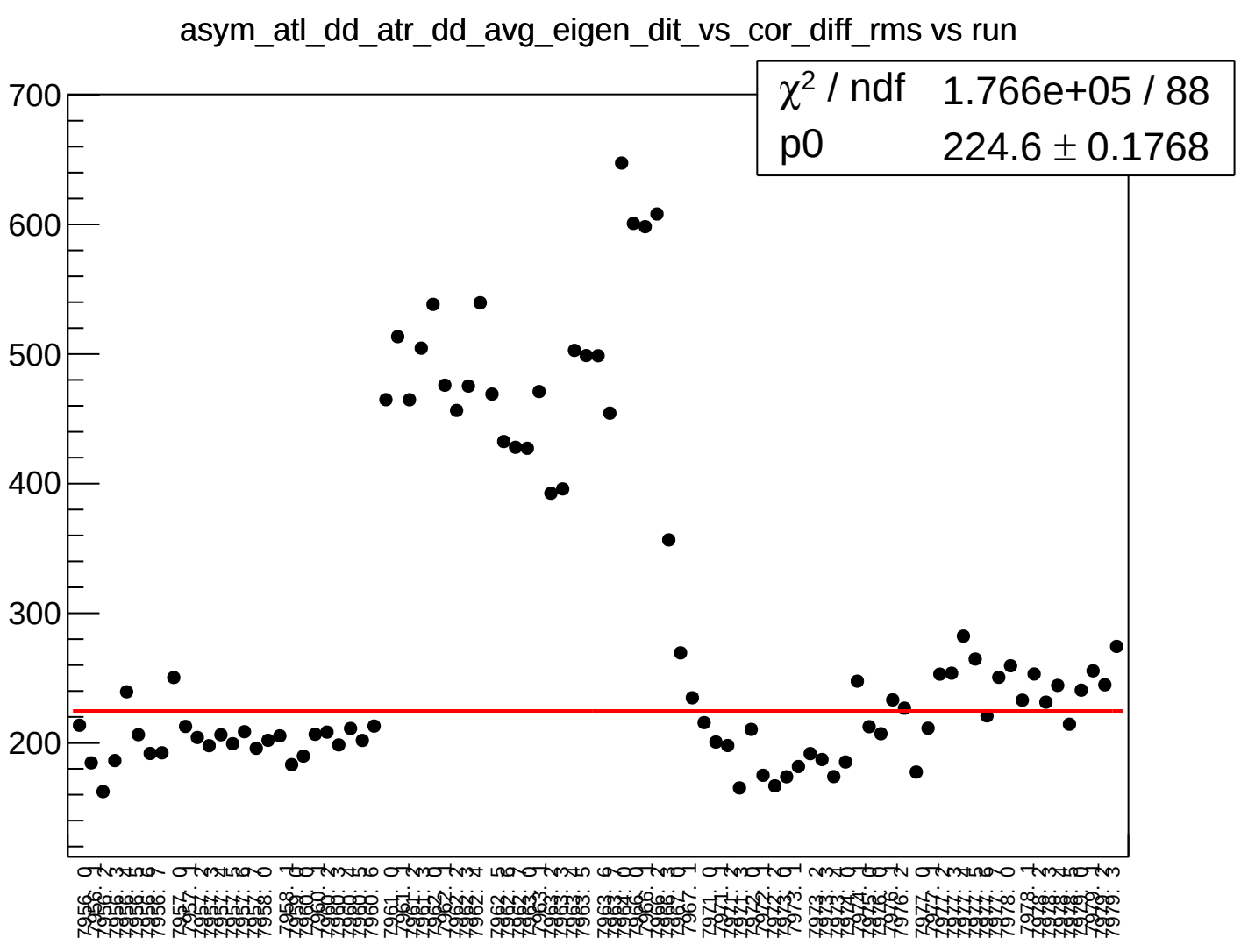

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.35 / 88
p0 −7.854e−06 ± 1.183e−05
pull
Entries 89
Mean 37.03
Std Dev 0

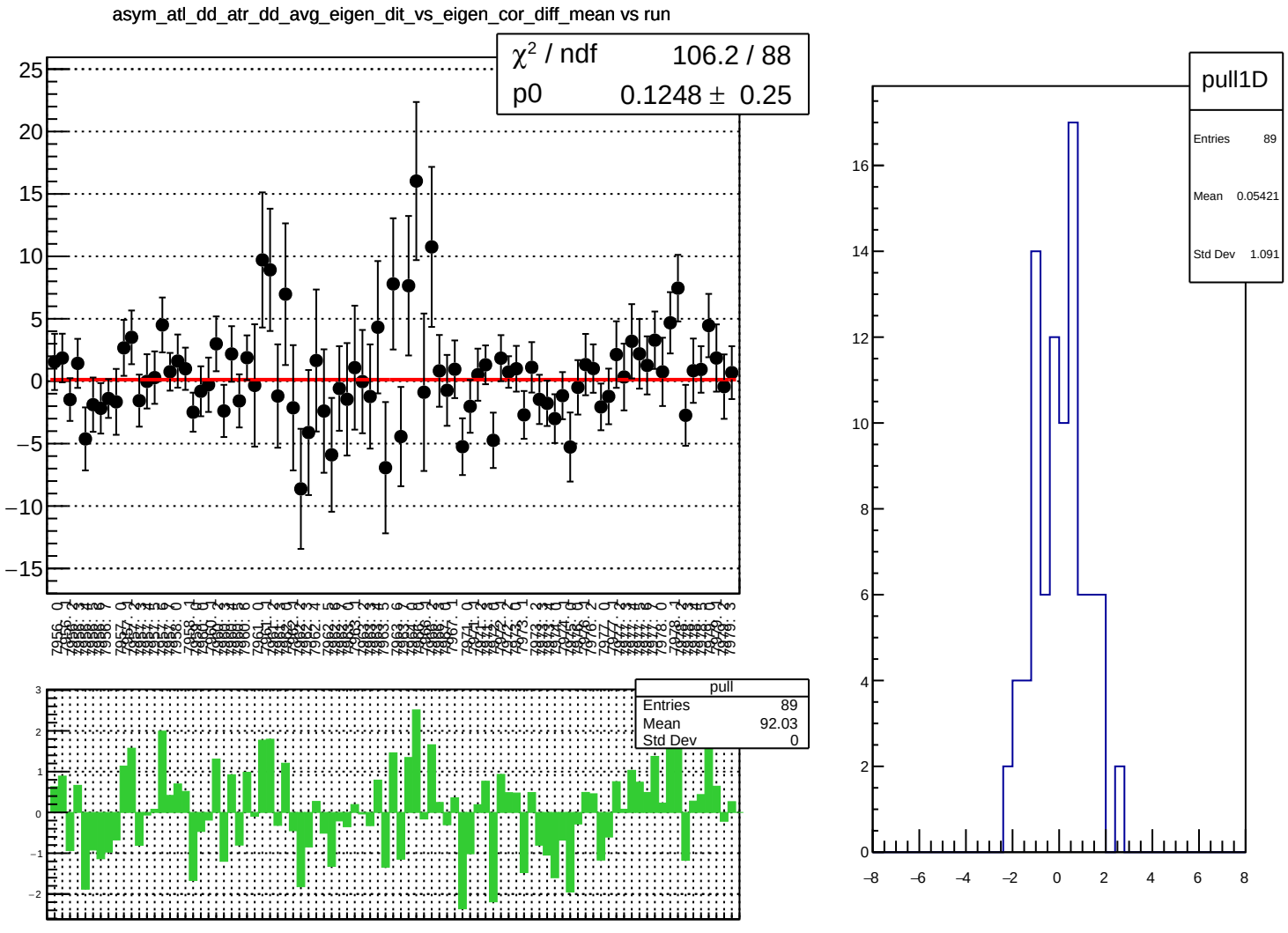

pull1D
Entries 89
Mean −0.01182
Std Dev 0.9501

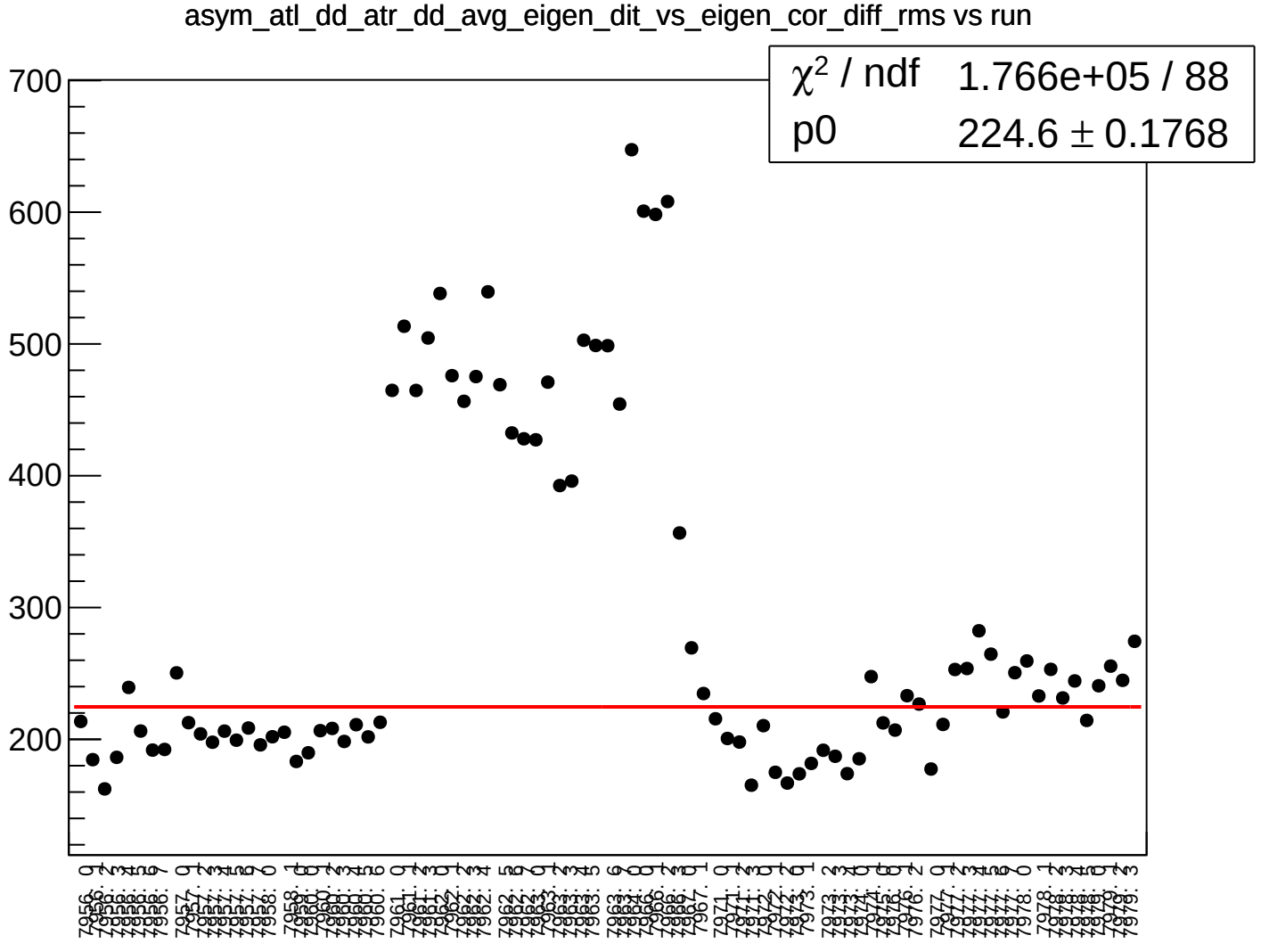

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.946e+04 / 88
p0 0.01091 ± 8.366e−06
0.018
0.016
0.014
0.012
0.01
0.008

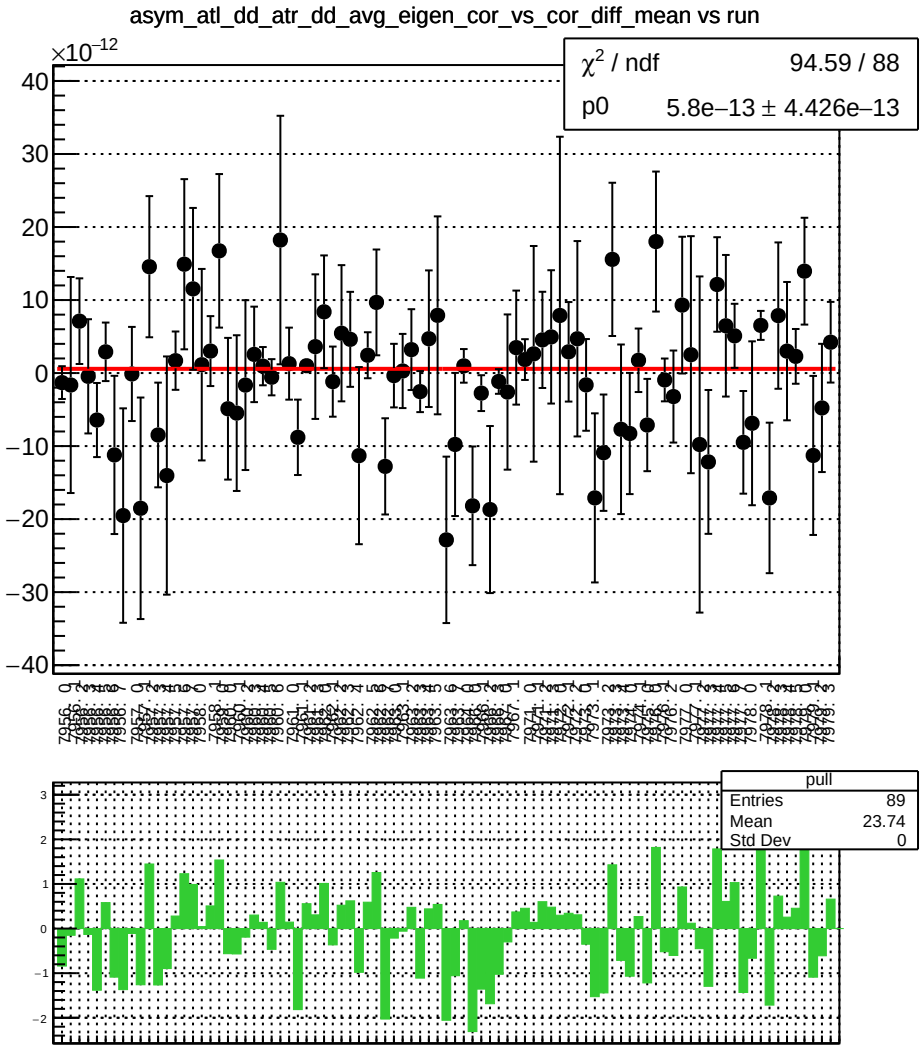

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 88
p0 0.1248 ± 0.25
pull
Entries 89
Mean 92.03
Std Dev 0

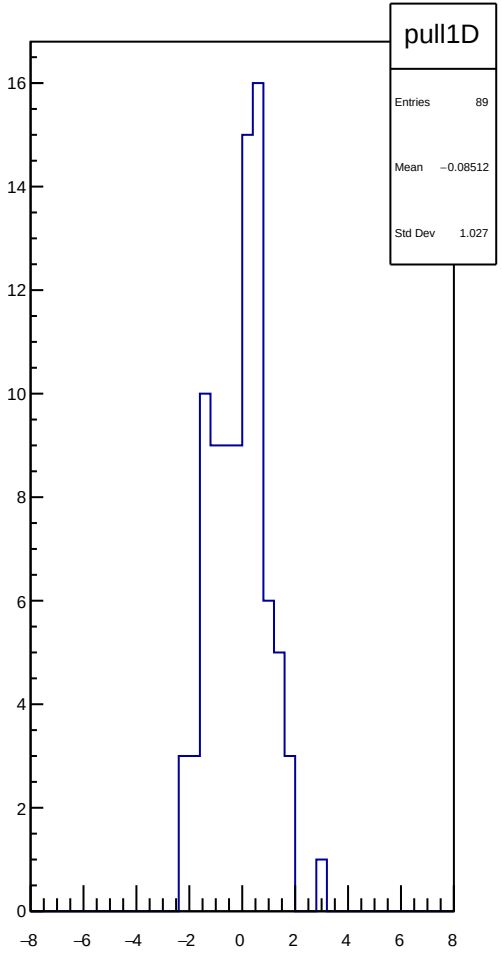

pull1D
Entries 89
Mean 0.05421
Std Dev 1.091

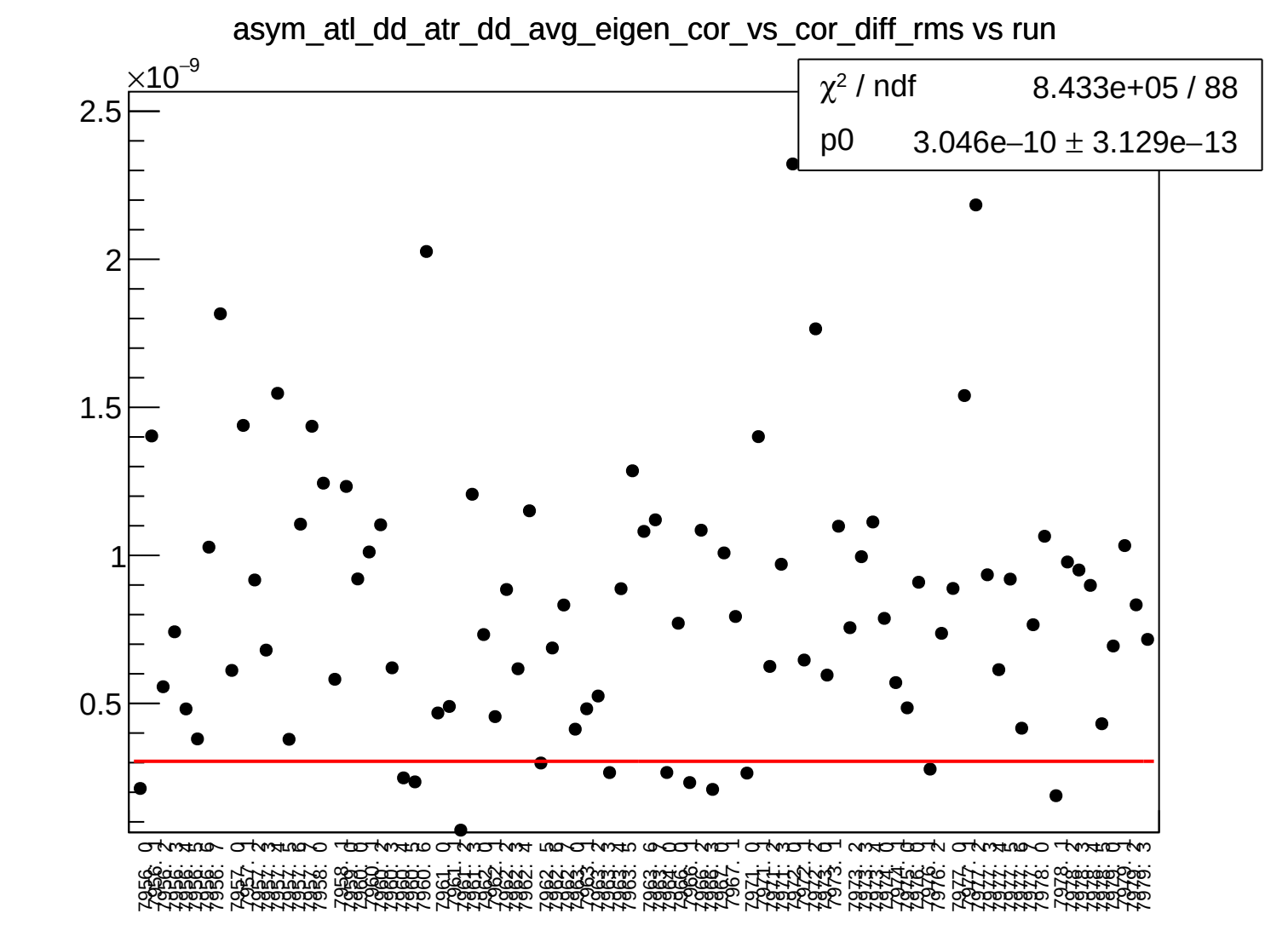

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 88
p0 224.6 ± 0.1768
700
600
500
400
300
200

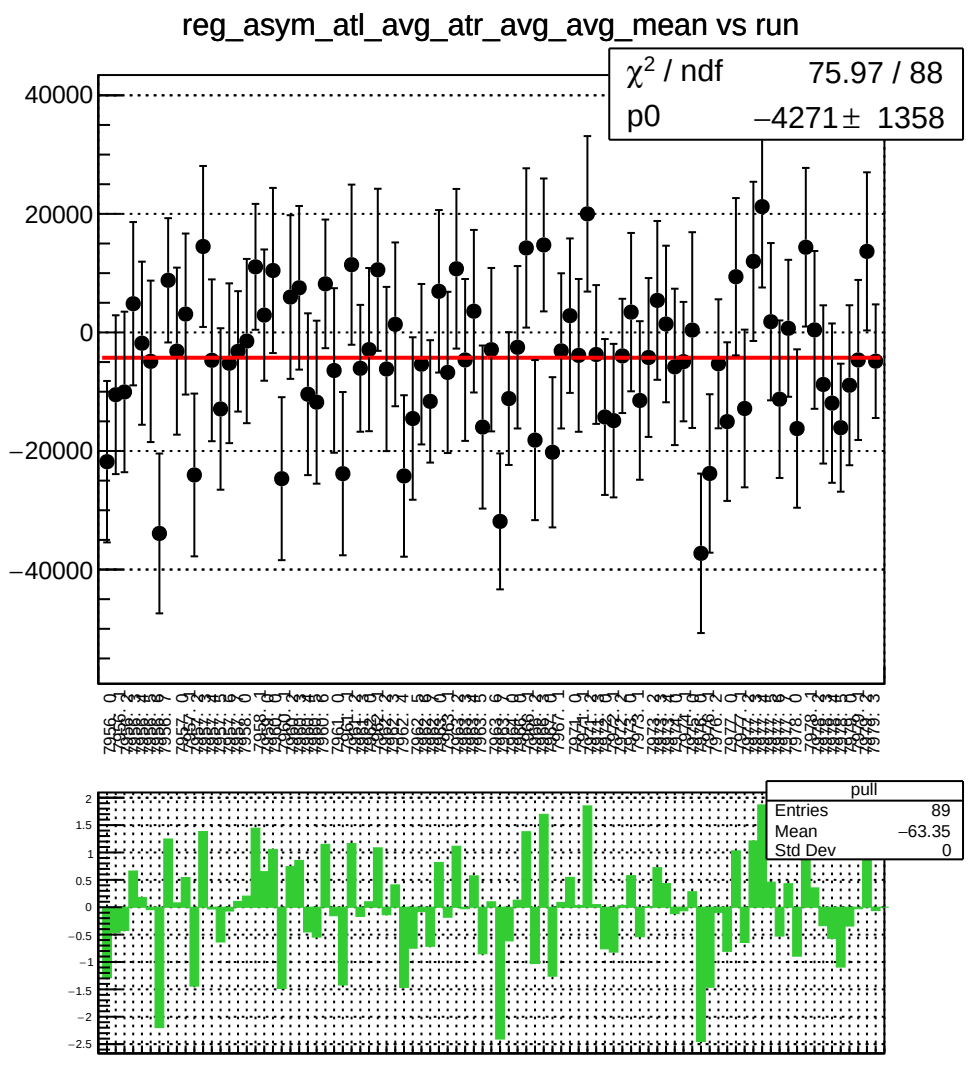

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 88
p0 0.1248 ± 0.25
pull
Entries 89
Mean 92.03
Std Dev 0
pull1D
Entries 89
Mean 0.05421
Std Dev 1.091

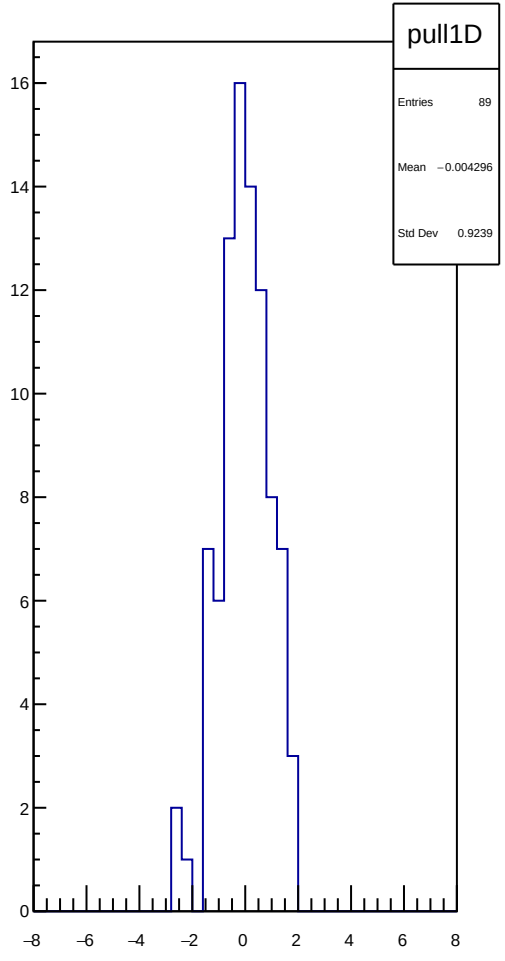

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 88
p0 224.6 ± 0.1768
700
600
500
400
300
200

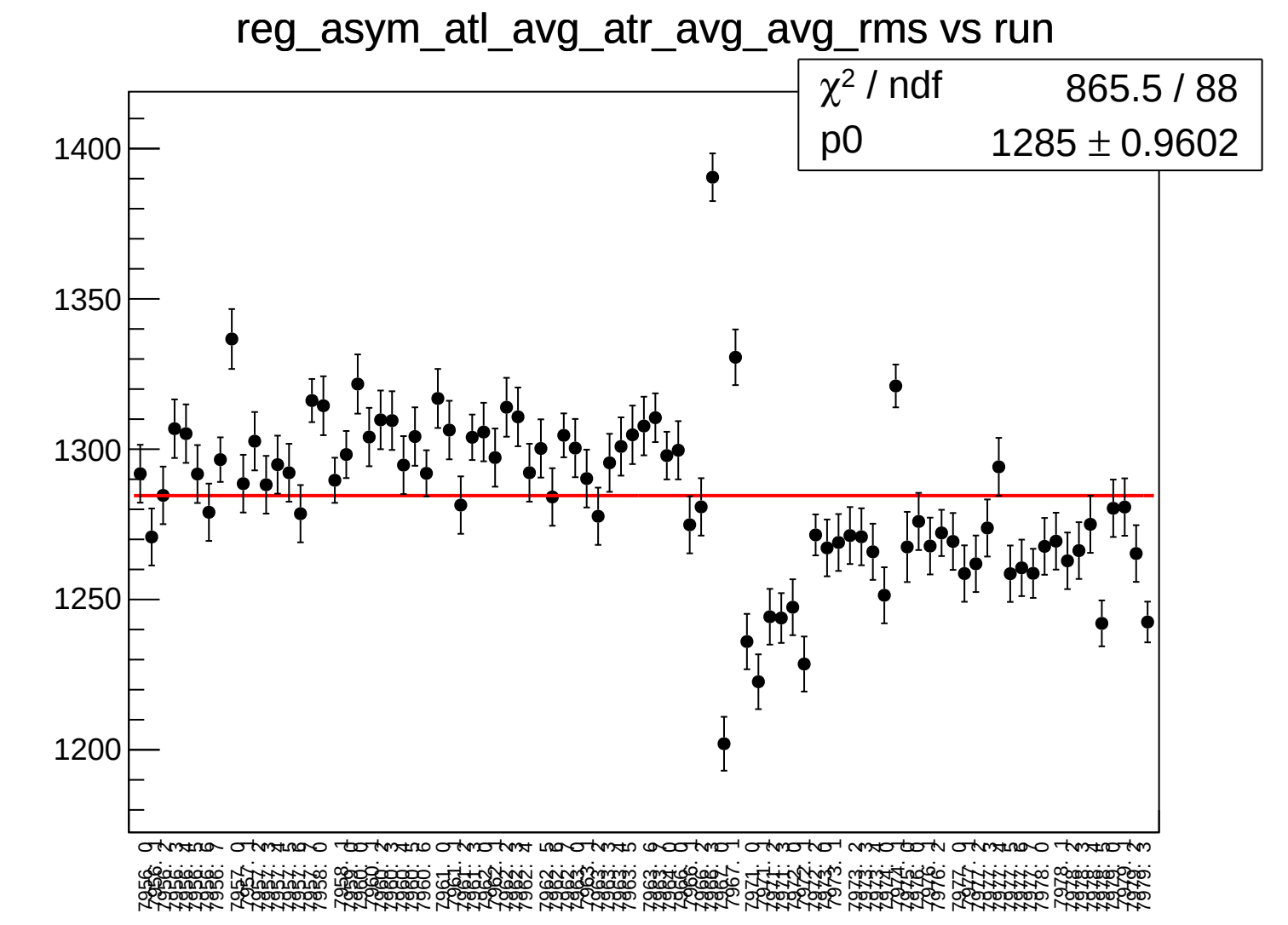

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.59 / 88
p0 5.8e−13 ± 4.426e−13
pull
Entries 89
Mean 23.74
Std Dev 0

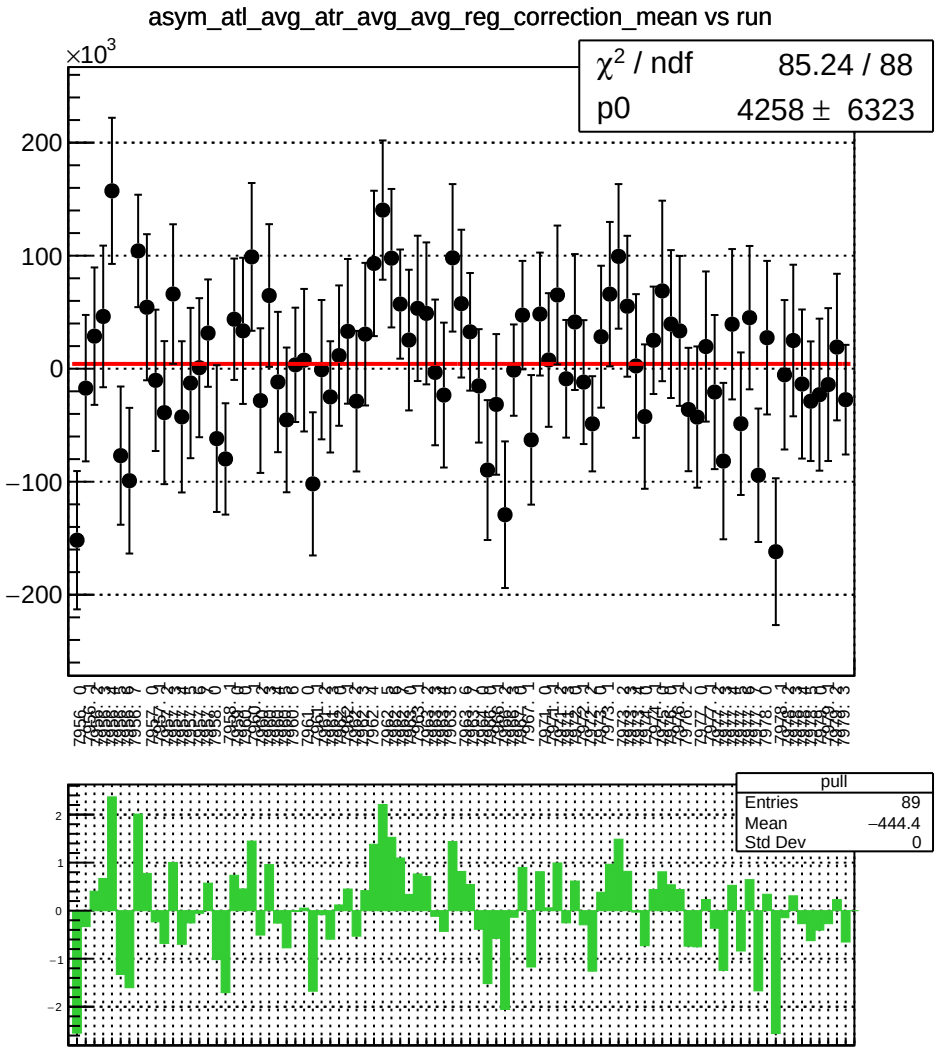

pull1D
Entries 89
Mean −0.08512
Std Dev 1.027

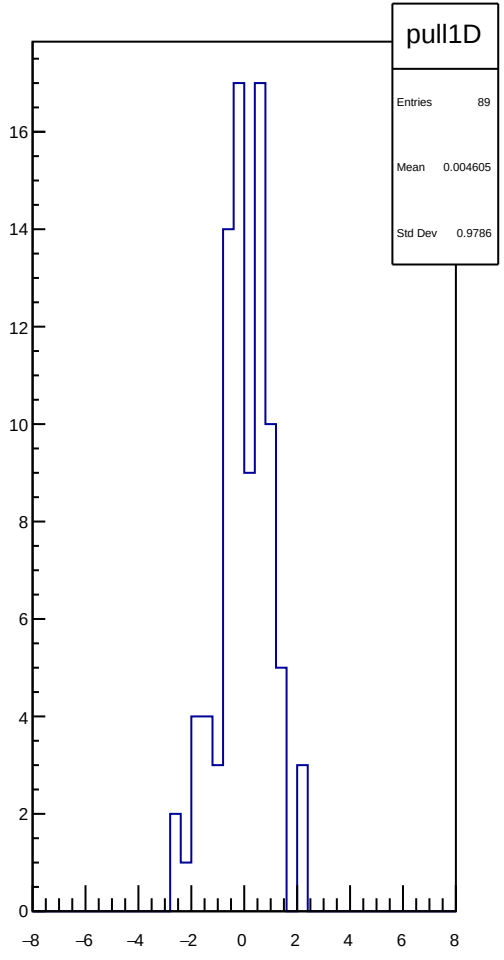

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 8.433e+05 / 88
p0 3.046e−10 ± 3.129e−13

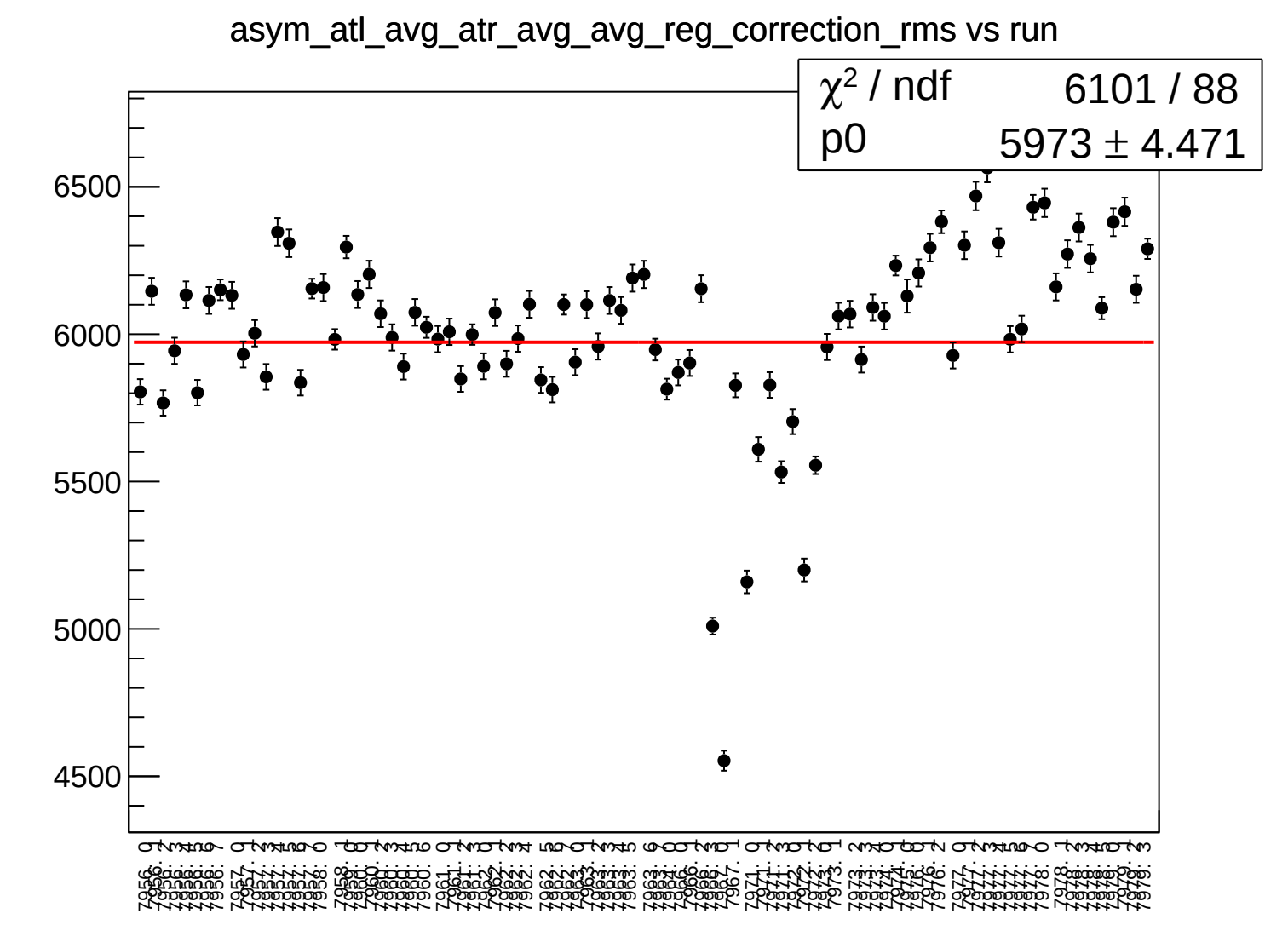

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 75.97 / 88
p0 −4271 ± 1358
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −63.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

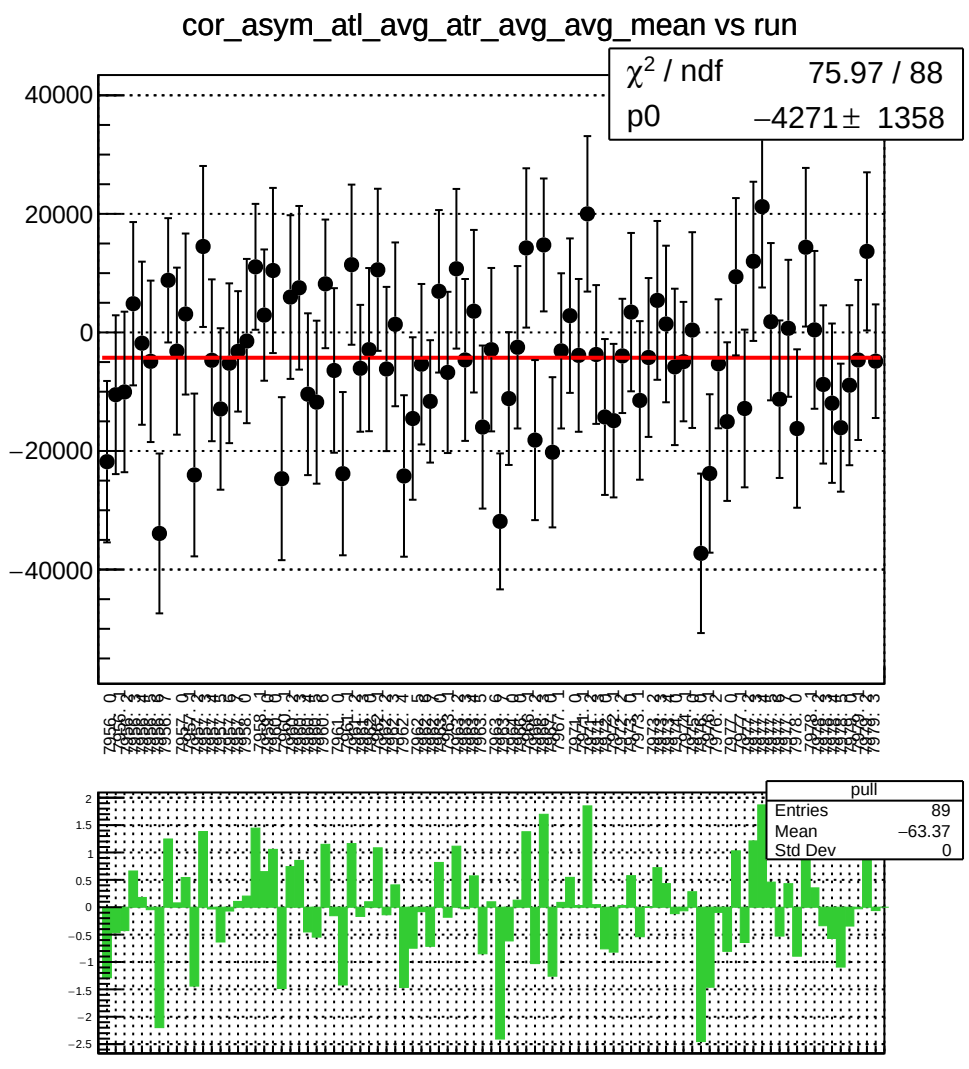

pull1D
Entries 89
Mean −0.004296
Std Dev 0.9239
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

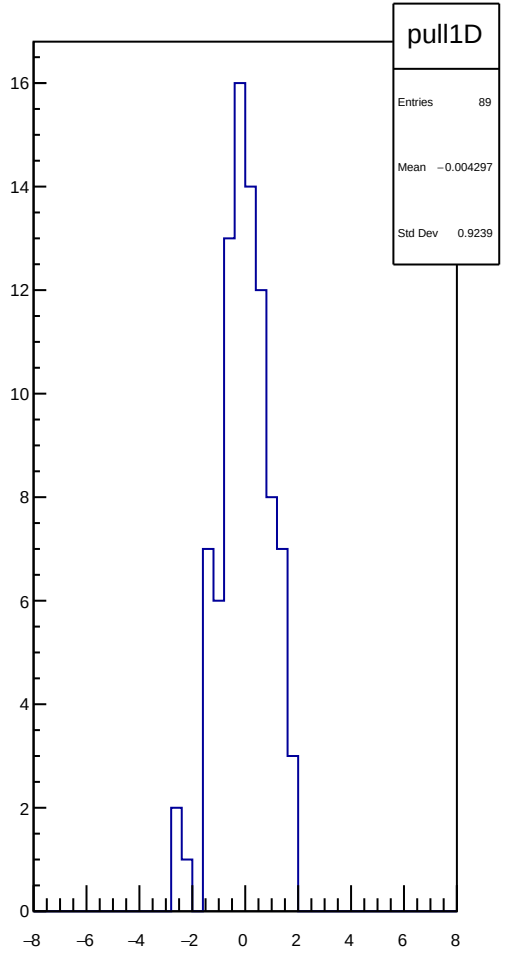

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 865.5 / 88
p0 1285 ± 0.9602
1400
1350
1300
1250
1200

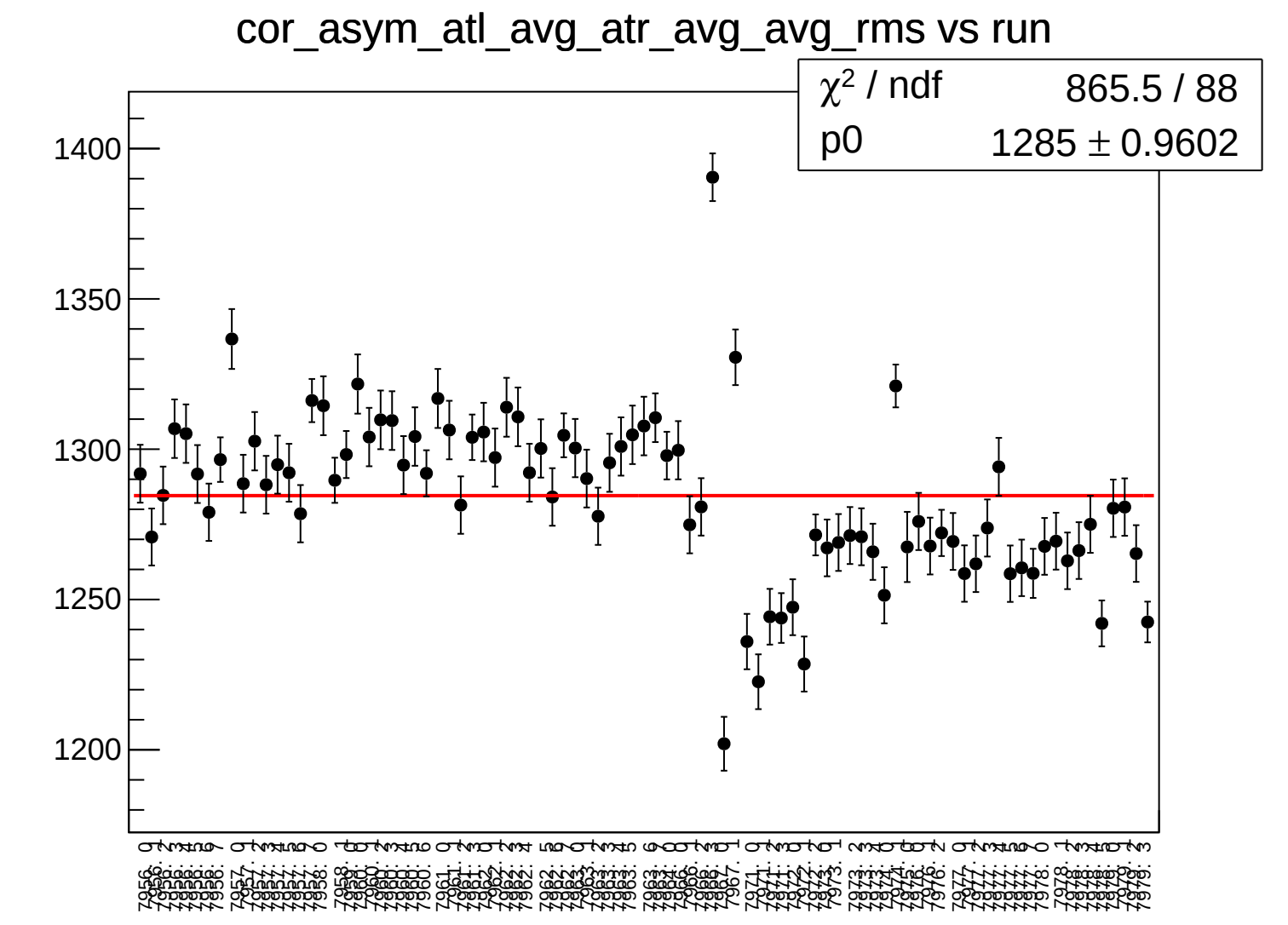

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.24 / 88
p0 4258 ± 6323
200
100
0
−100
−200
pull
Entries 89
Mean −444.4
Std Dev 0
2
1
0
−1
−2

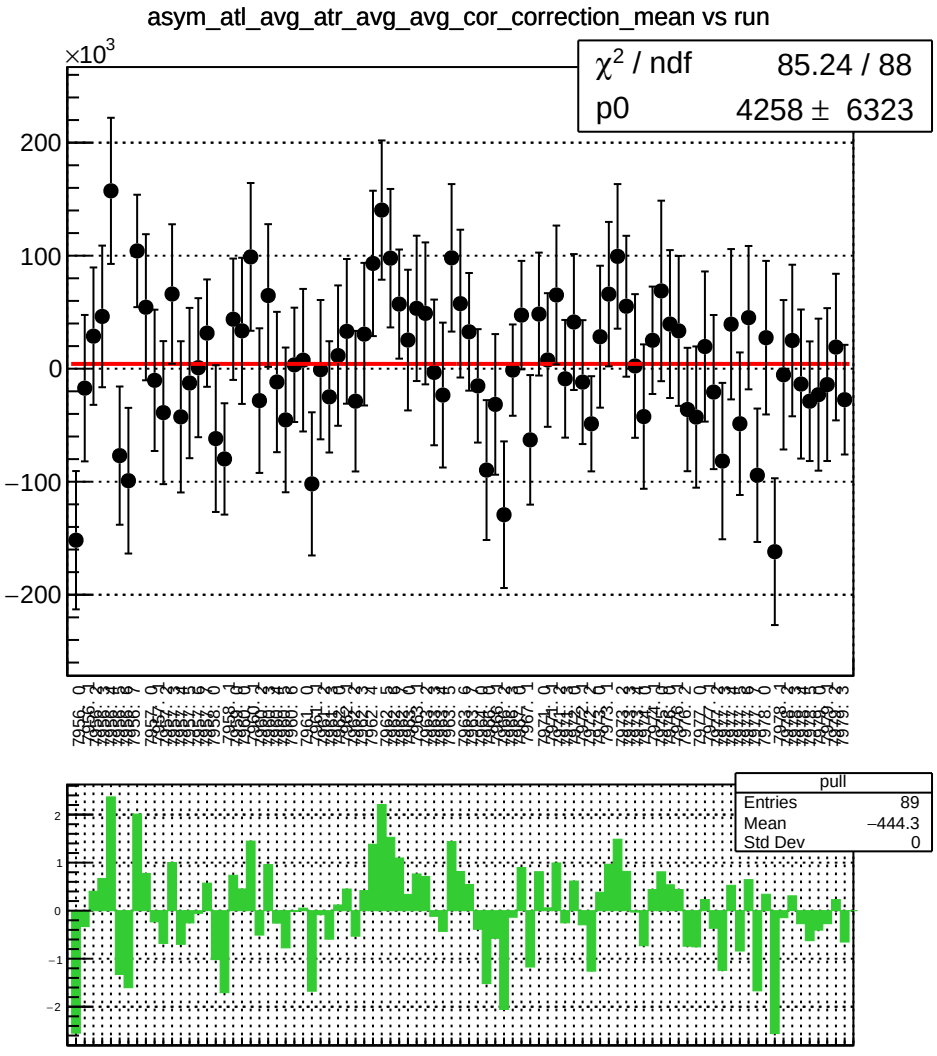

pull1D
Entries 89
Mean 0.004605
Std Dev 0.9786
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

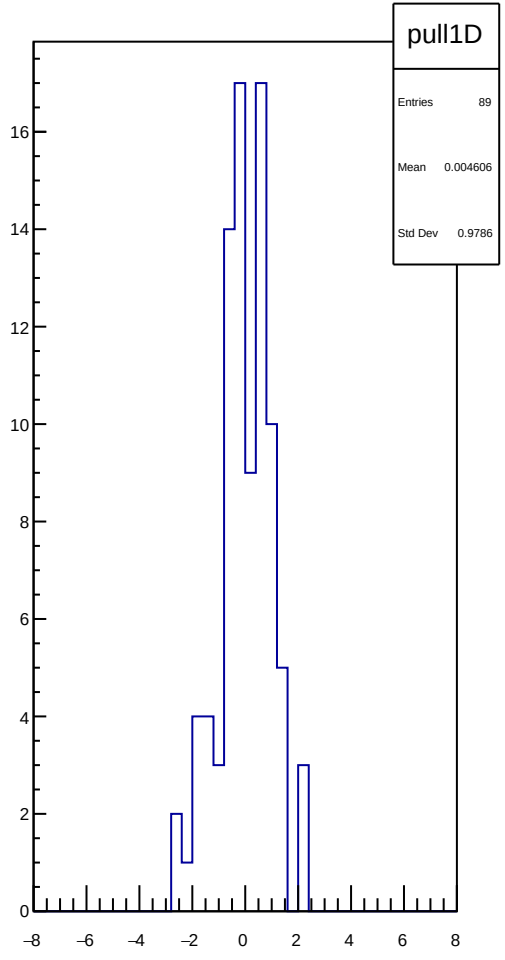

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 6101 / 88
p0 5973 ± 4.471
6500
6000
5500
5000
4500

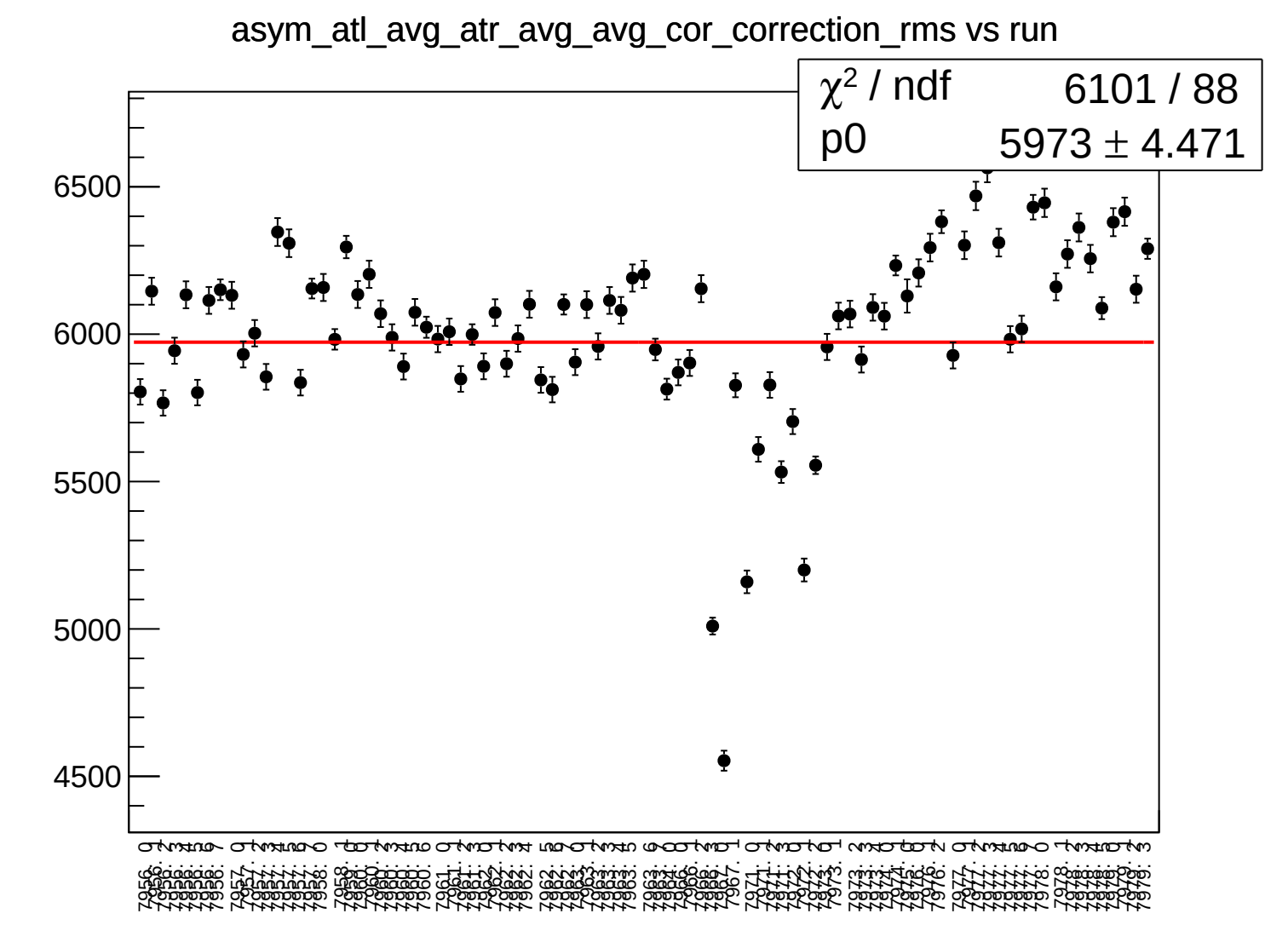

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 75.97 / 88
p0 −4271 ± 1358
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −63.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

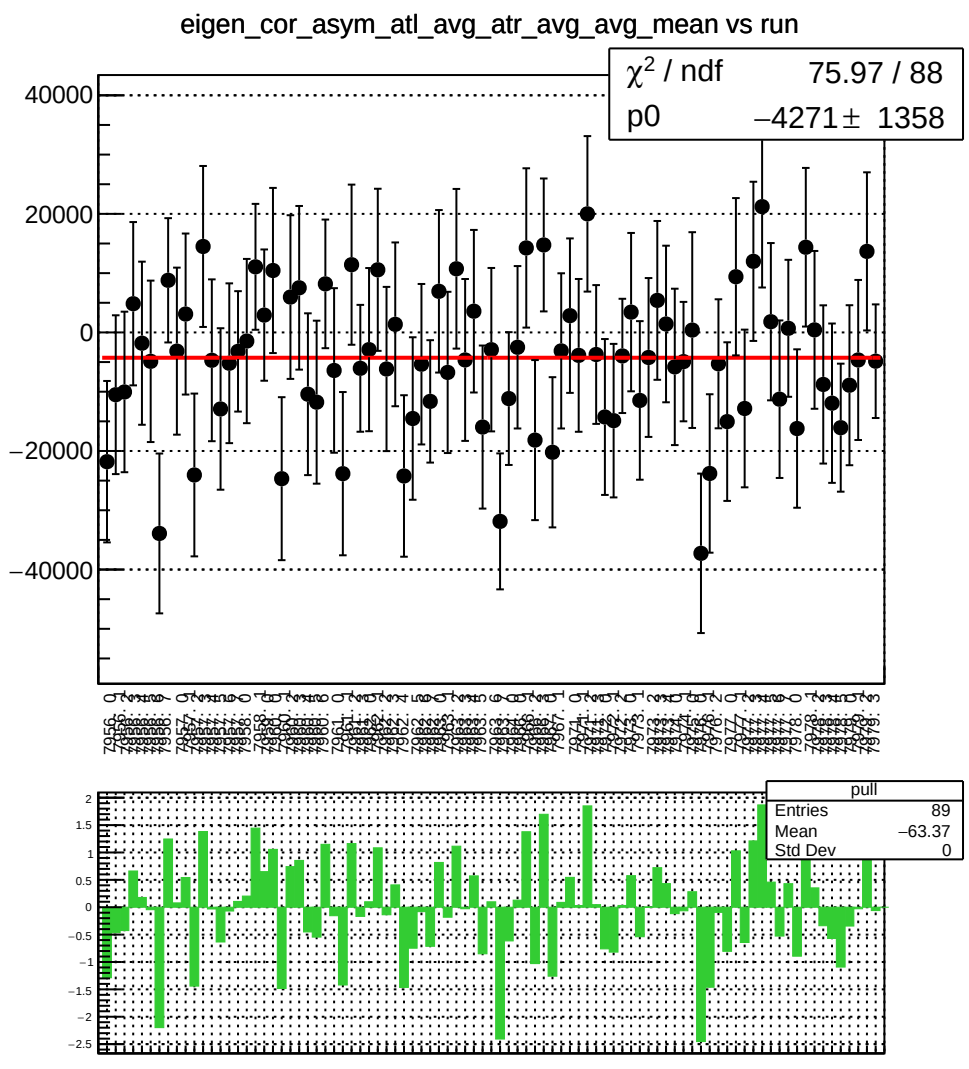

pull1D
Entries 89
Mean −0.004297
Std Dev 0.9239
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

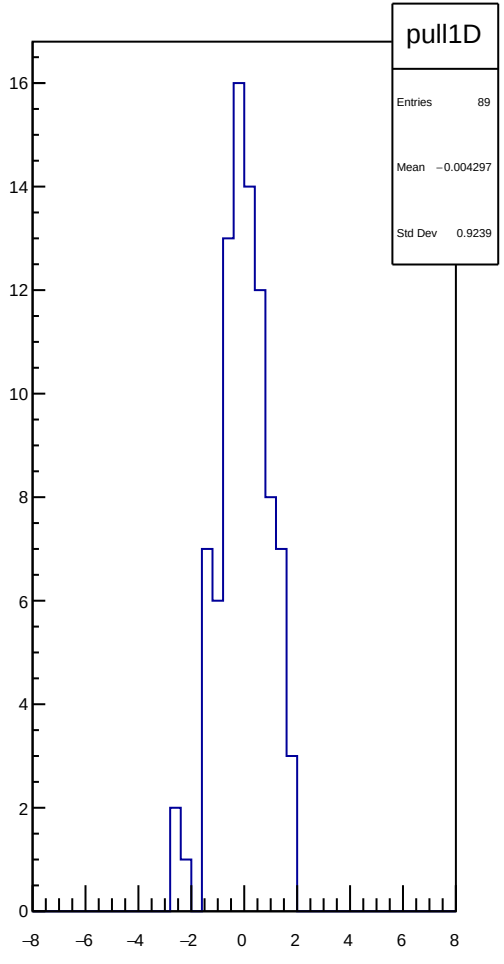

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 865.5 / 88
p0 1285 ± 0.9602
1400
1350
1300
1250
1200

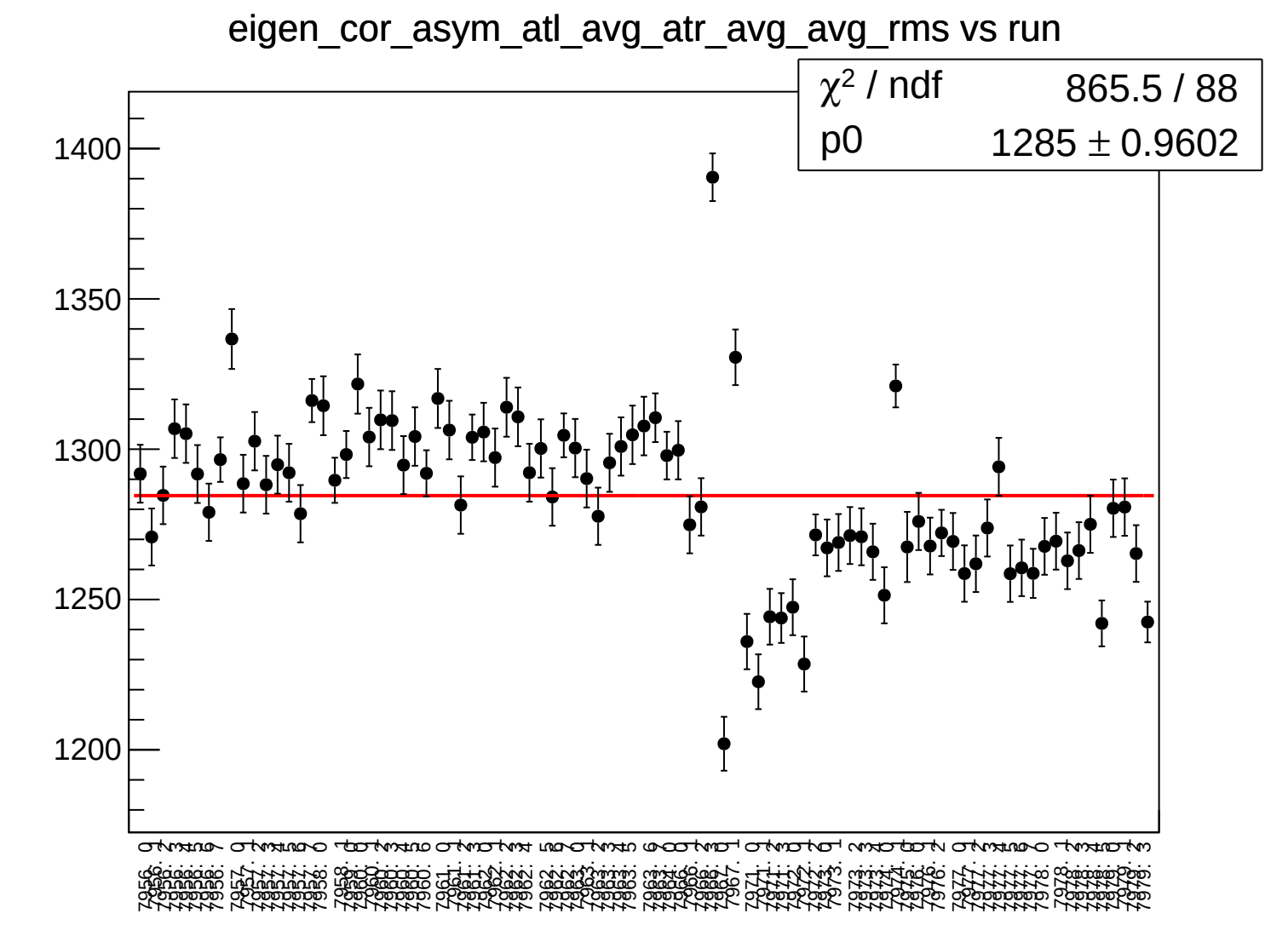

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.24 / 88
p0 4258 ± 6323
200
100
0
−100
−200
pull
Entries 89
Mean −444.3
Std Dev 0
2
1
0
−1
−2

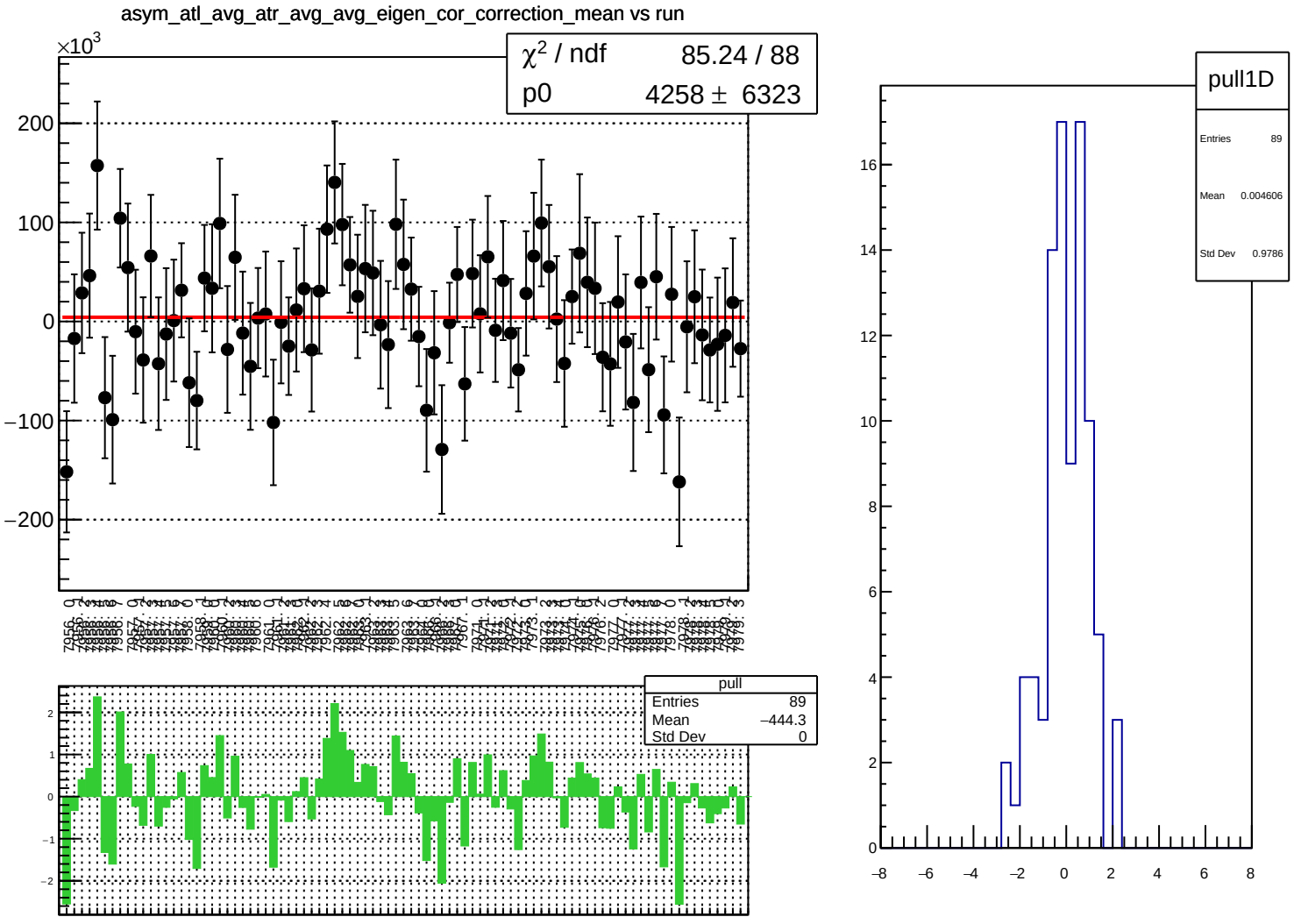

pull1D
Entries 89
Mean 0.004606
Std Dev 0.9786
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

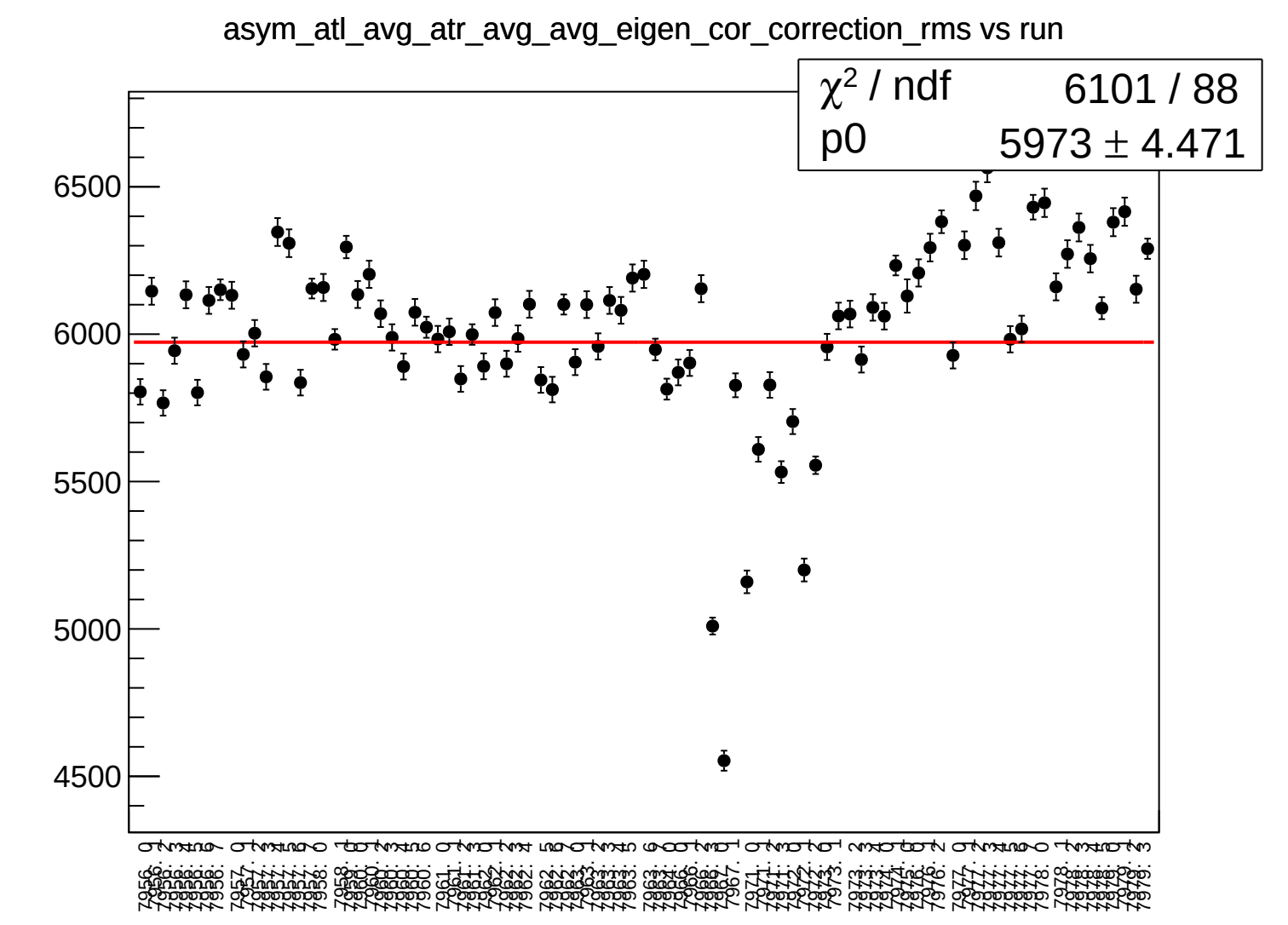

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 6101 / 88
p0 5973 ± 4.471
6500
6000
5500
5000
4500

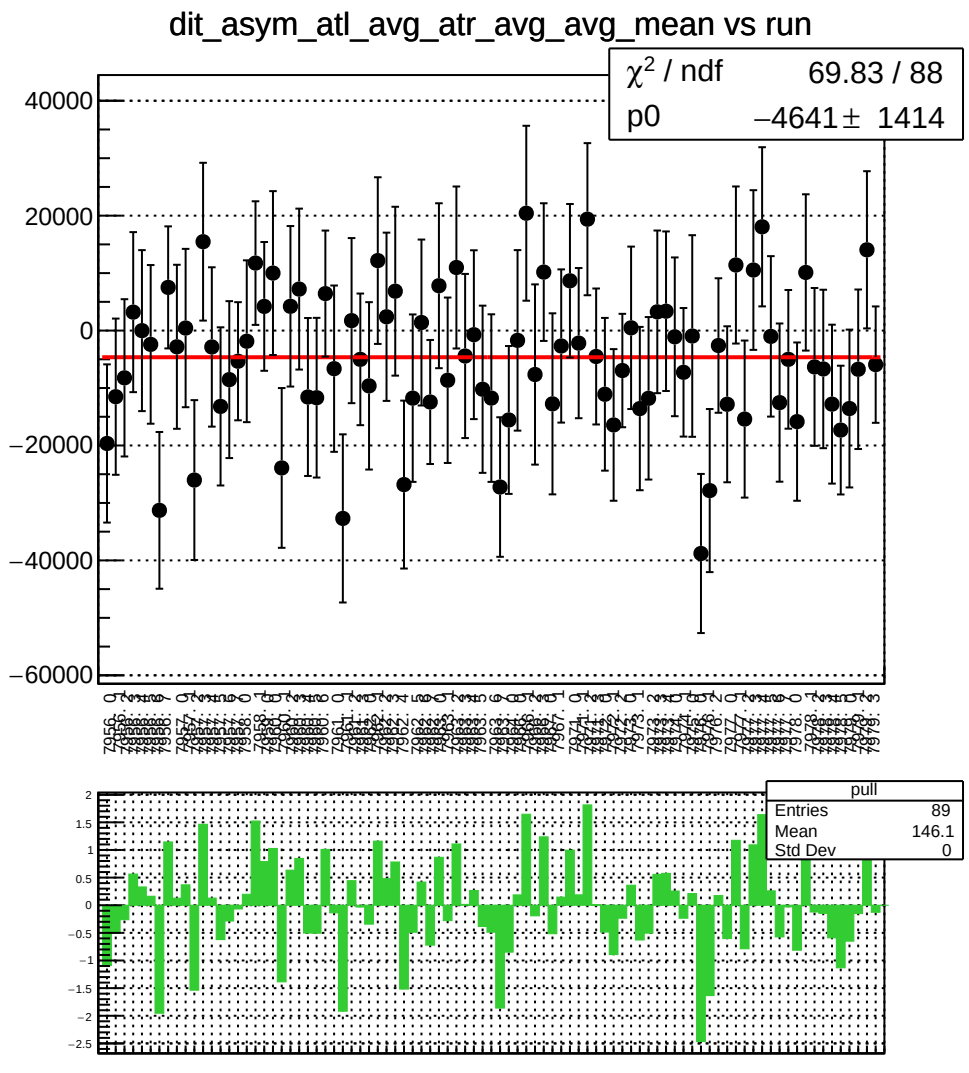

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 75.97 / 88
p0 −4271 ± 1358
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −63.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

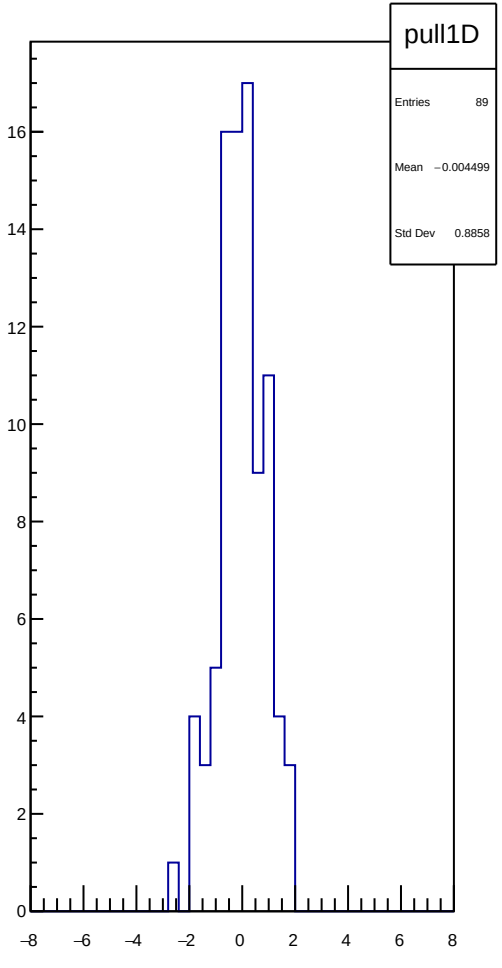

pull1D
Entries 89
Mean −0.004297
Std Dev 0.9239
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

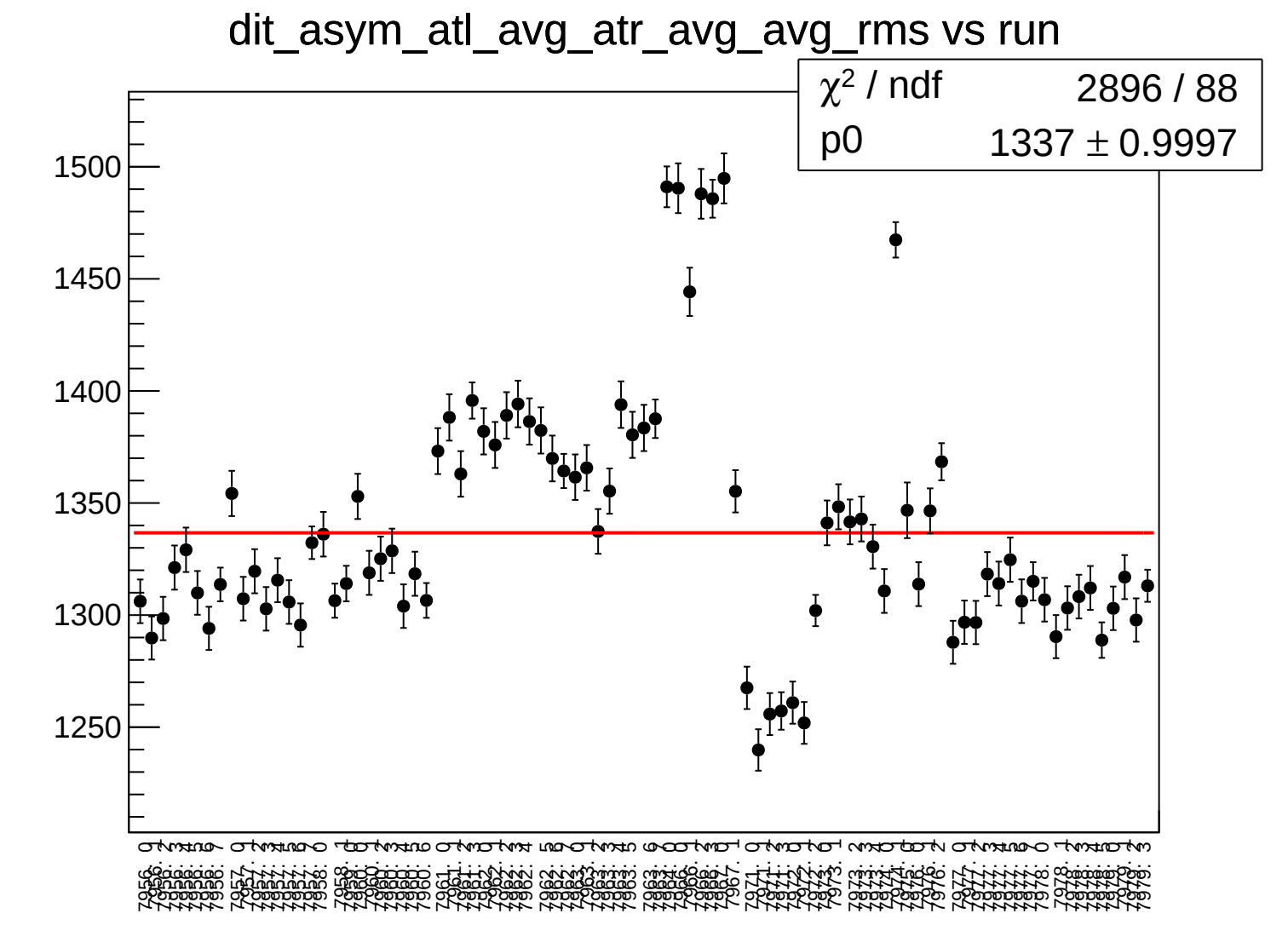

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 865.5 / 88
p0 1285 ± 0.9602
1400
1350
1300
1250
1200

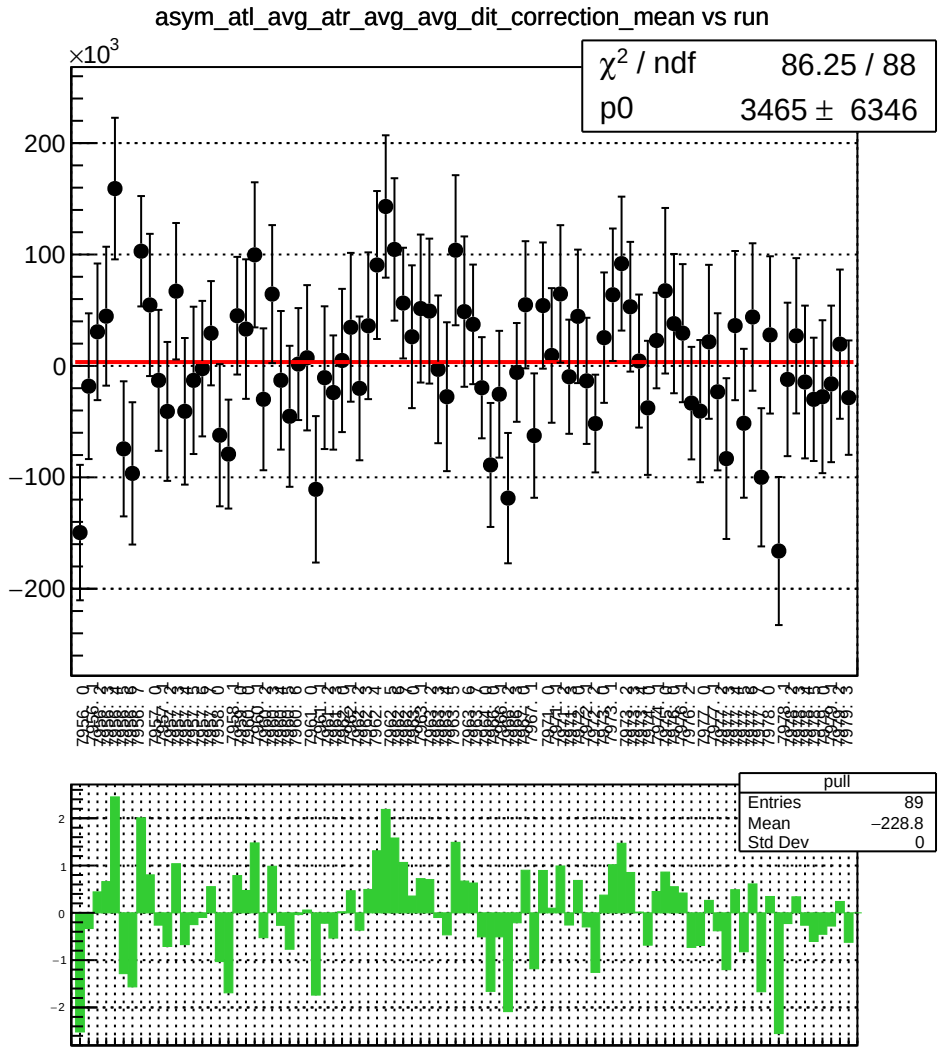

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.24 / 88
p0 4258 ± 6323
200
100
0
−100
−200
pull
Entries 89
Mean −444.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.004606
Std Dev 0.9786
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

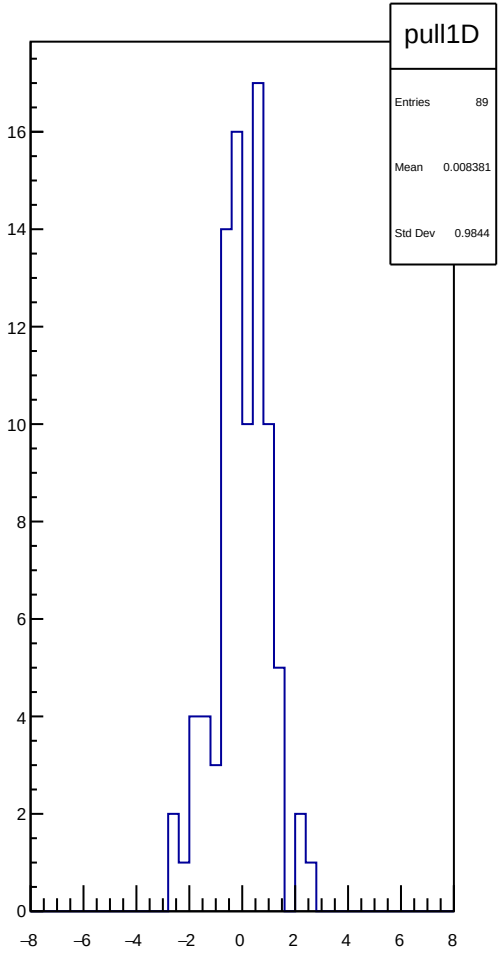

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6101 / 88
p0 5973 ± 4.471
6500
6000
5500
5000
4500

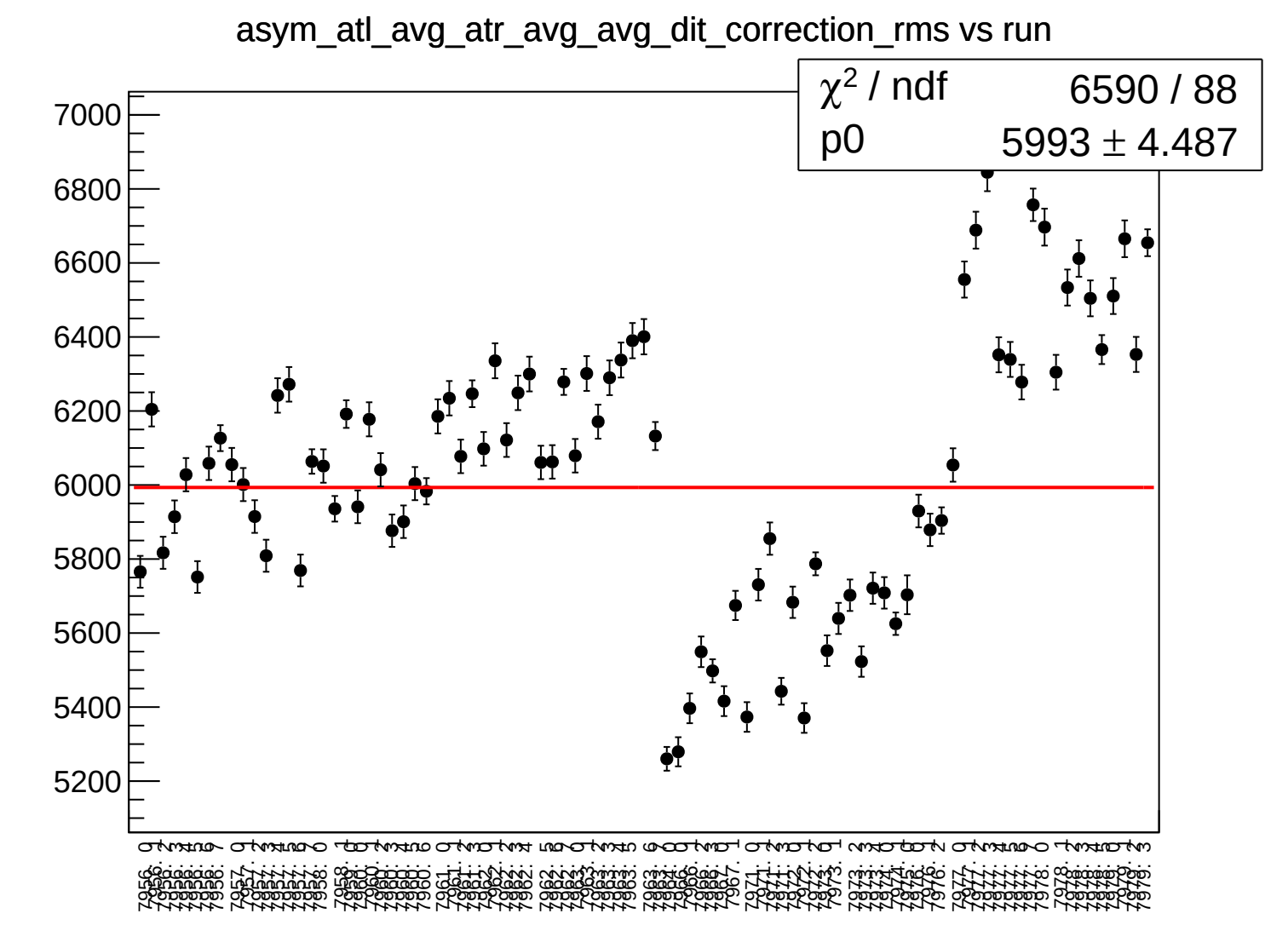

dit_asym_atl_avg_atr_avg_avg_mean vs run
$\chi^2$ / ndf 69.83 / 88
p0 −4641 ± 1414
pull
Entries 89
Mean 146.1
Std Dev 0

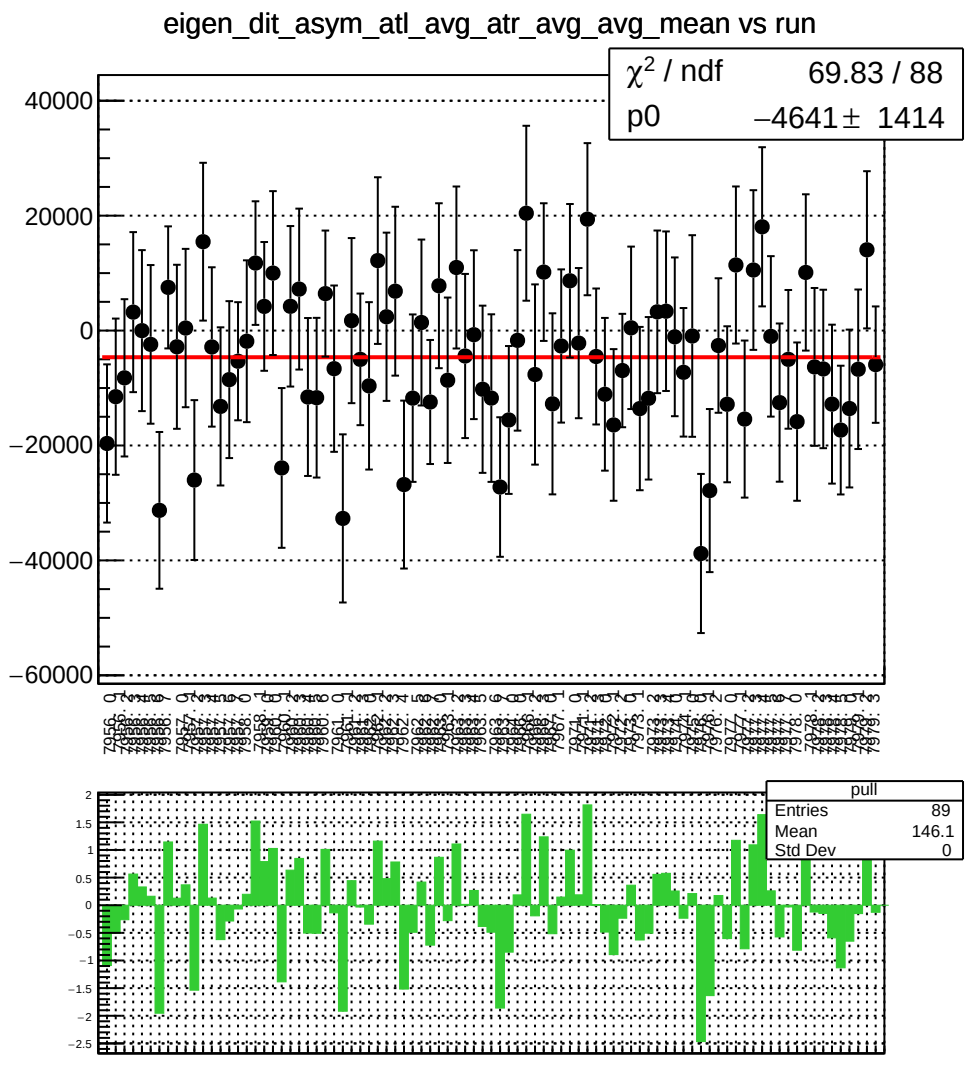

pull1D
Entries 89
Mean −0.004499
Std Dev 0.8858

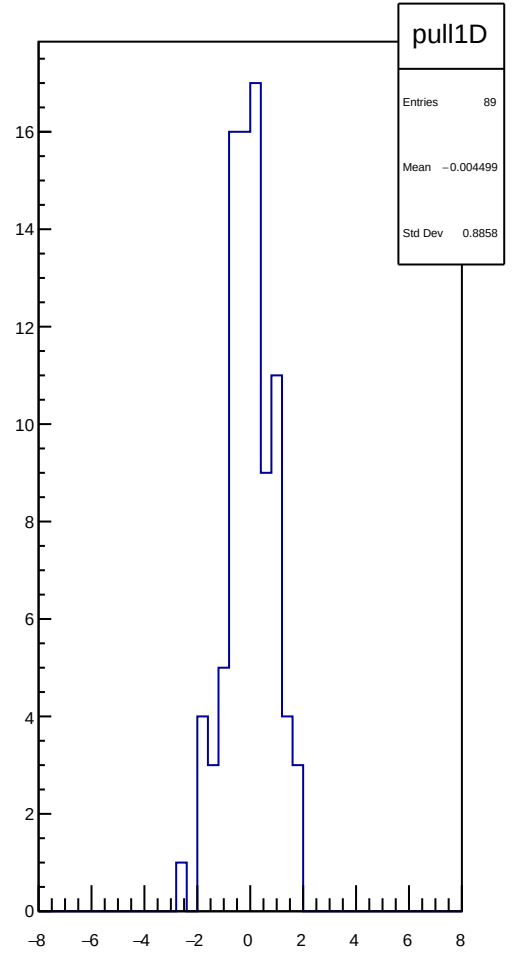

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2896 / 88
p0 1337 ± 0.9997
1500
1450
1400
1350
1300
1250

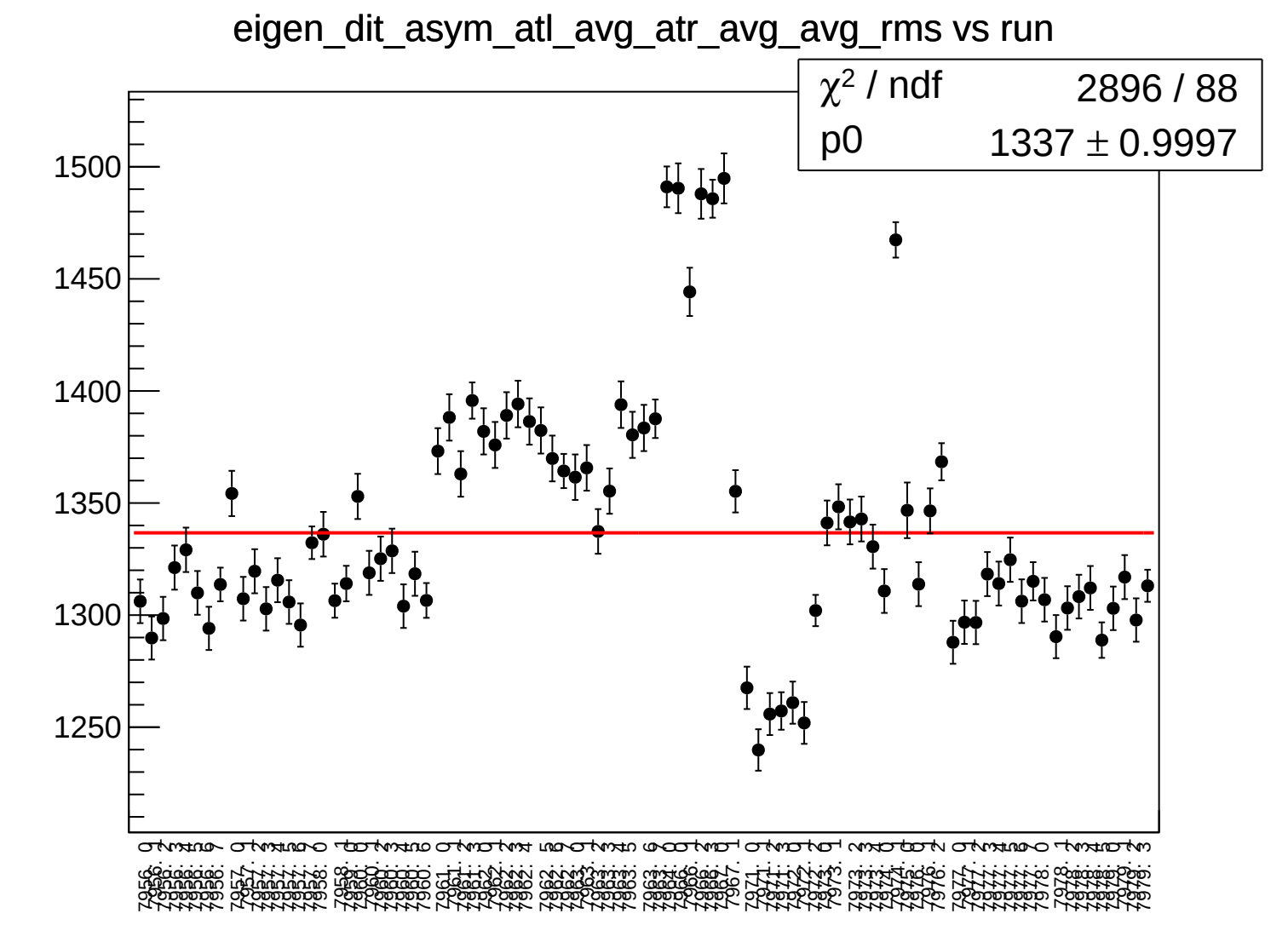

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.25 / 88
p0 3465 ± 6346
200
100
0
−100
−200
pull
Entries 89
Mean −228.8
Std Dev 0
2
1
0
−1
−2

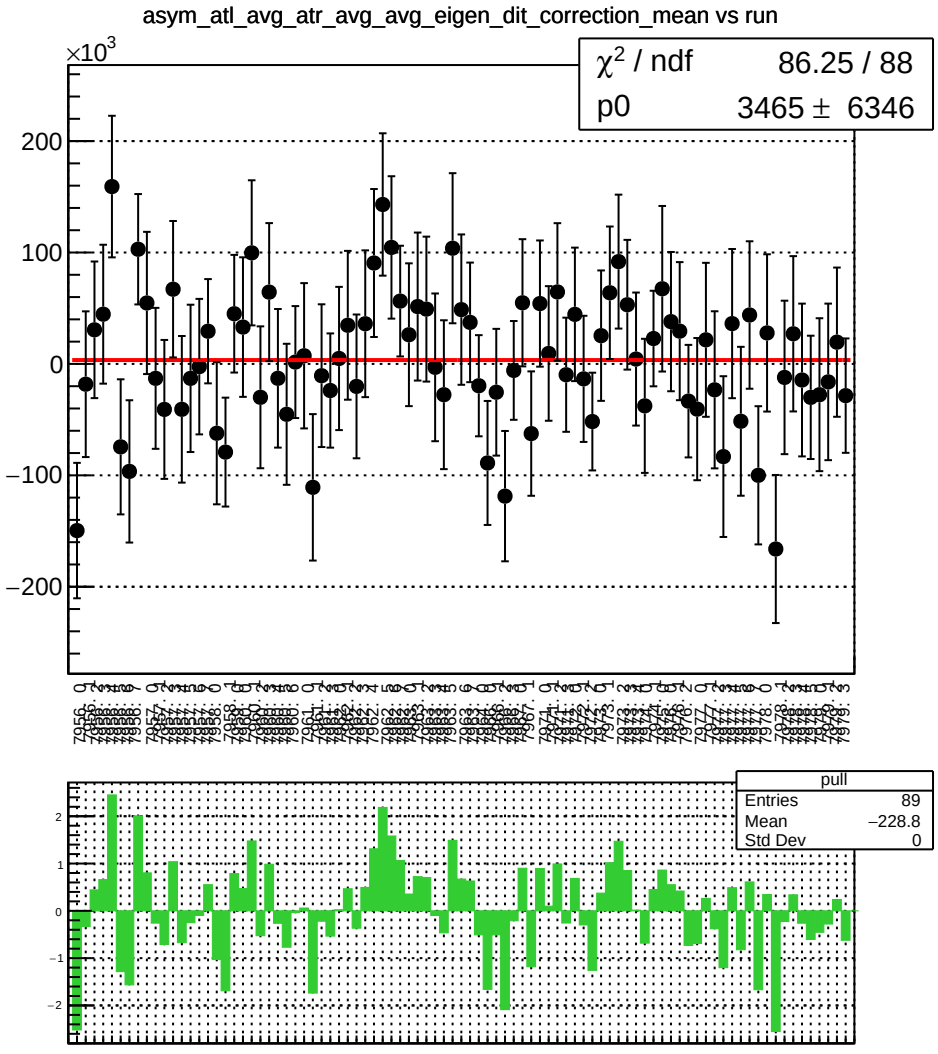

pull1D
Entries 89
Mean 0.008381
Std Dev 0.9844
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

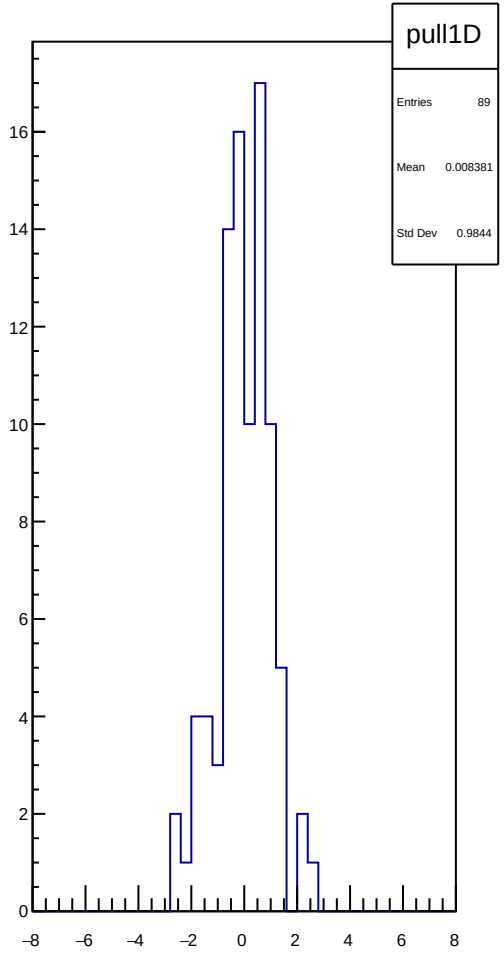

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 6590 / 88
p0 5993 ± 4.487
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

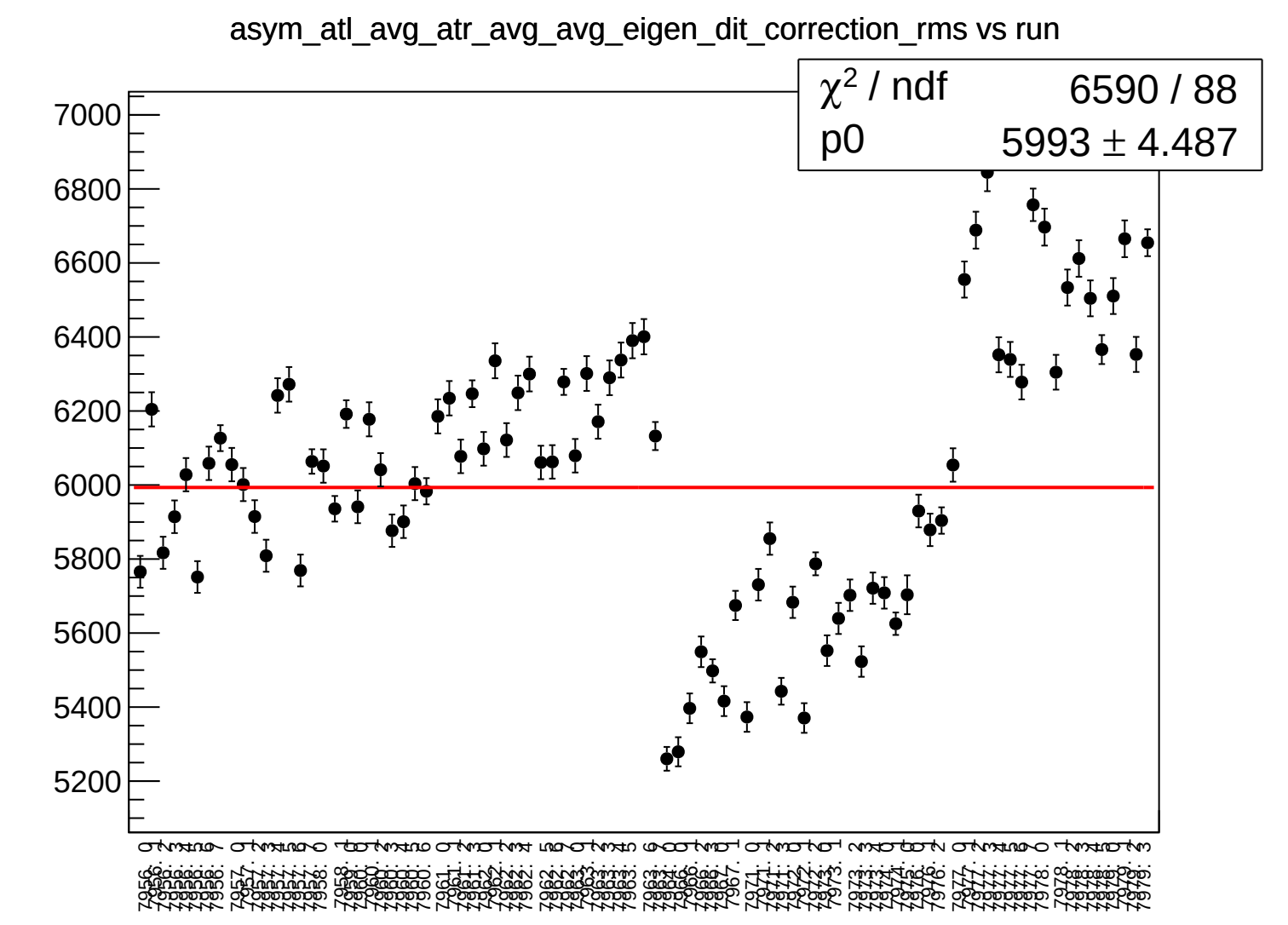

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 69.83 / 88
p0 −4641 ± 1414
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 146.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

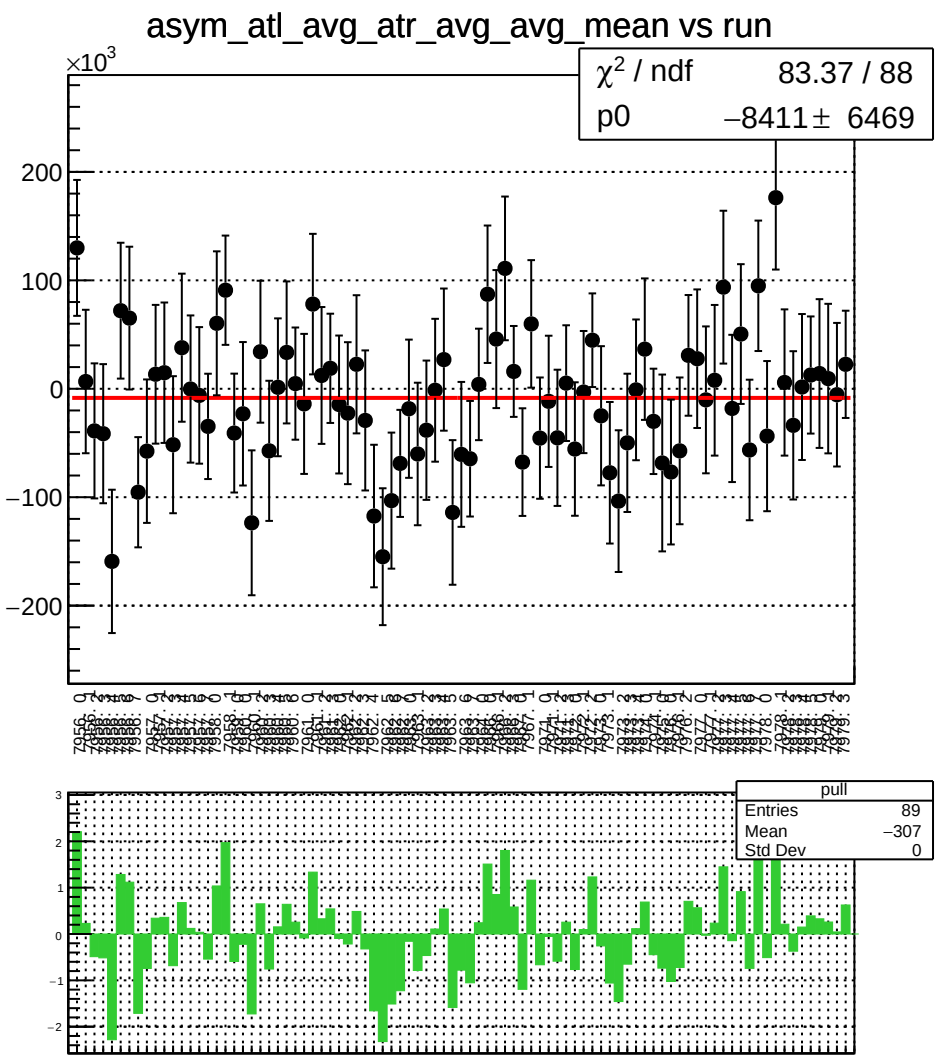

pull1D
Entries 89
Mean −0.004499
Std Dev 0.8858
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

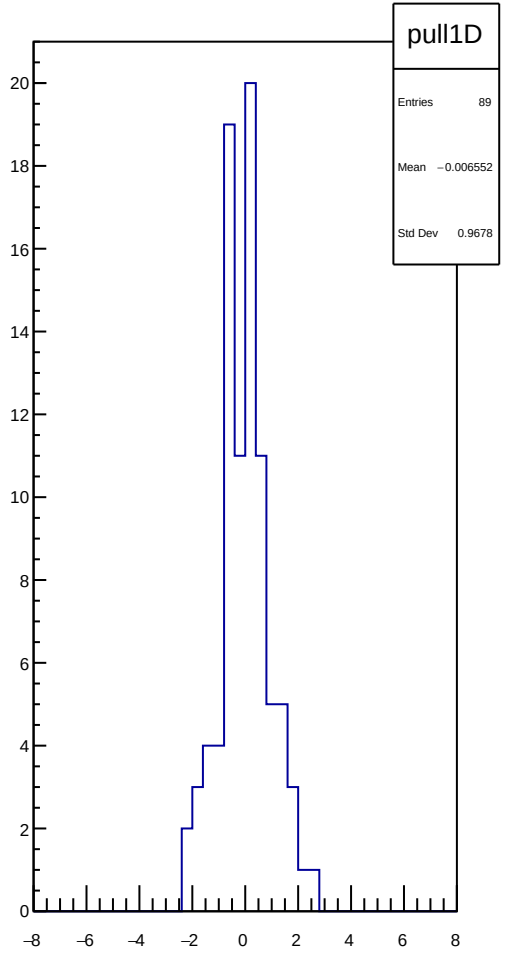

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2896 / 88
p0 1337 ± 0.9997
1500
1450
1400
1350
1300
1250

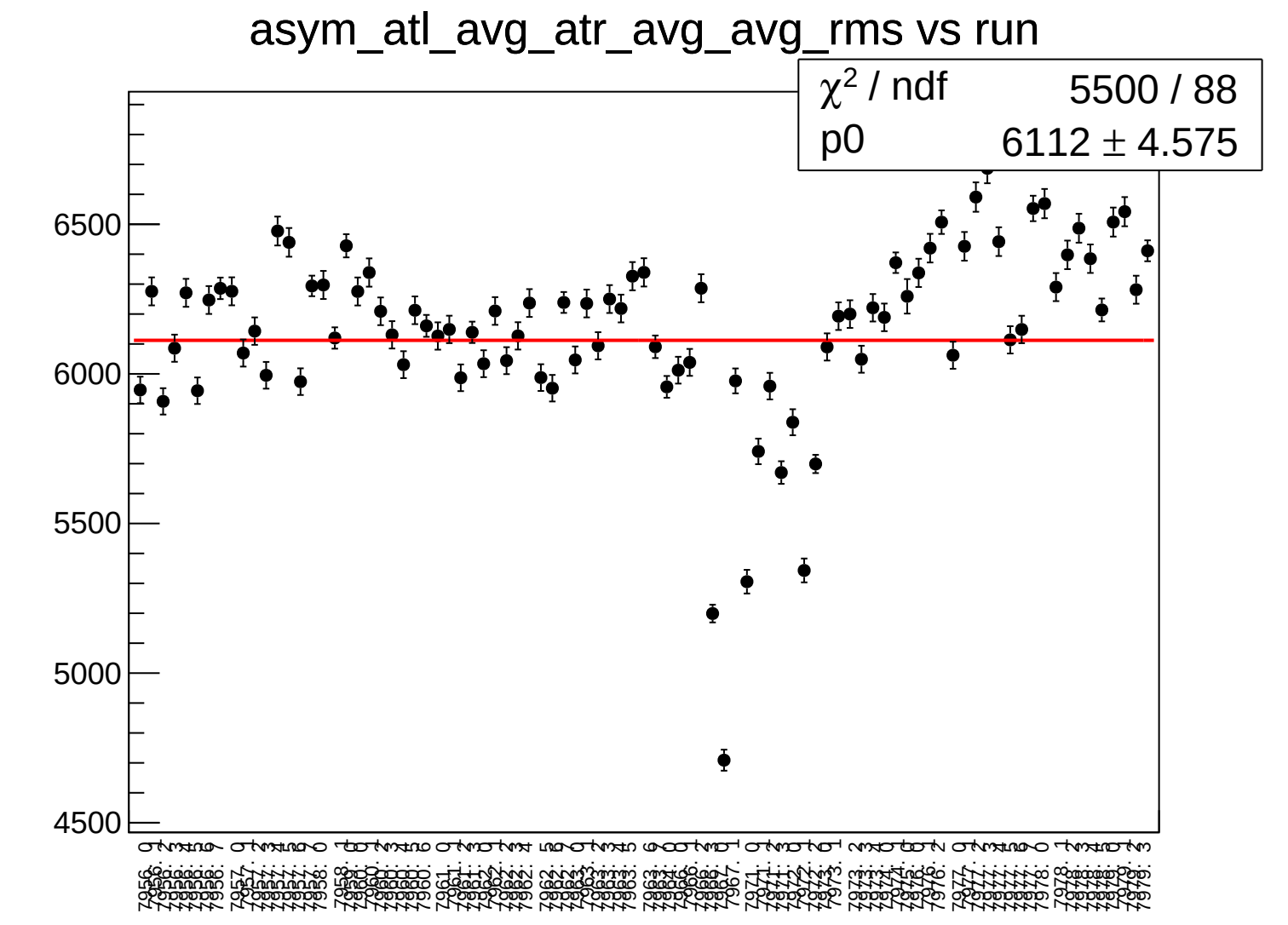

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.25 / 88
p0 3465 ± 6346
200
100
0
−100
−200
pull
Entries 89
Mean −228.8
Std Dev 0
2
1
0
−1
−2

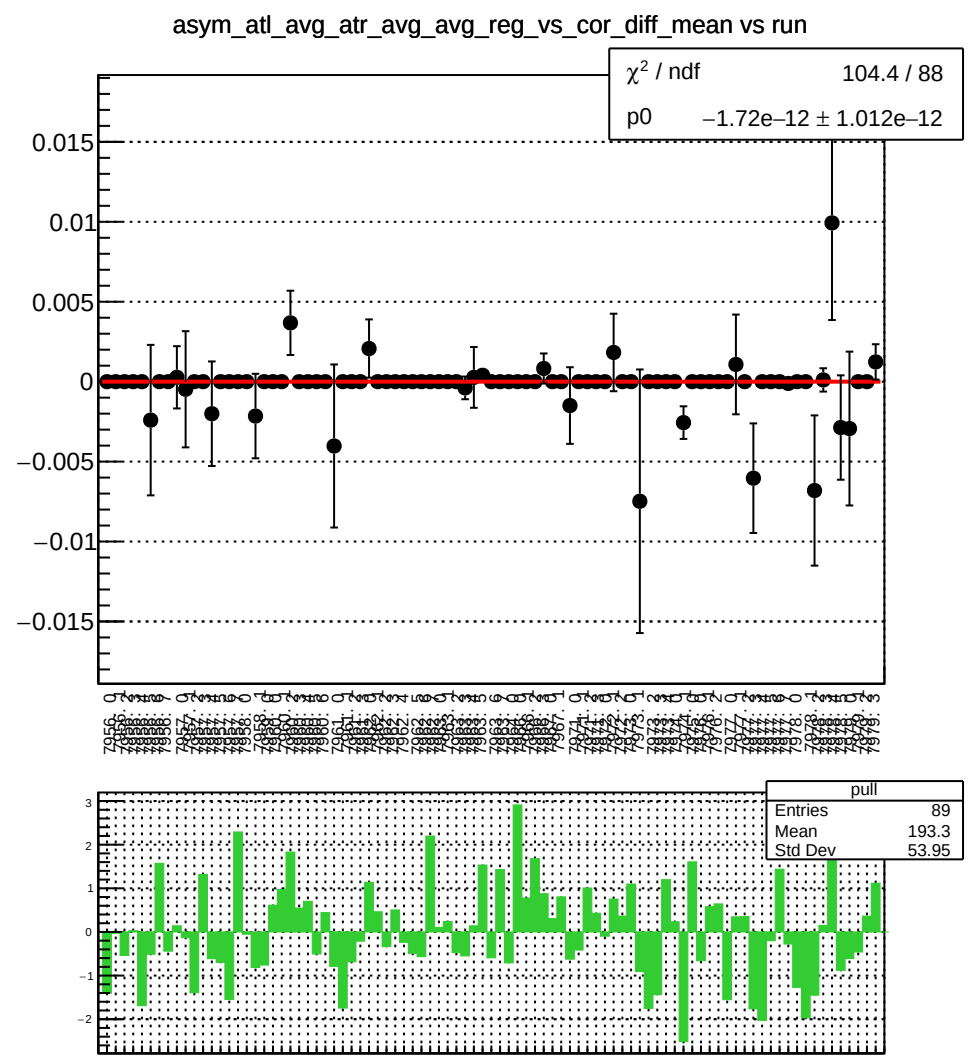

pull1D
Entries 89
Mean 0.008381
Std Dev 0.9844
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

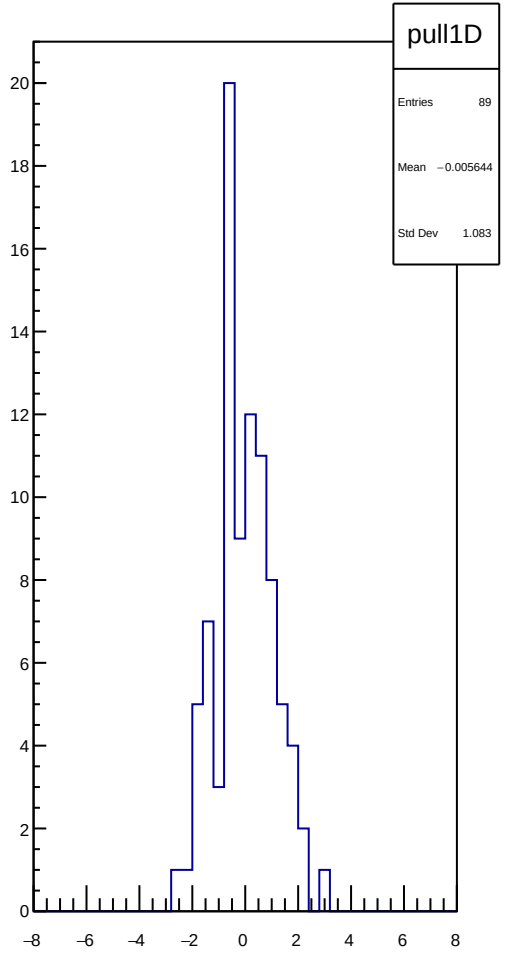

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6590 / 88
p0 5993 ± 4.487
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

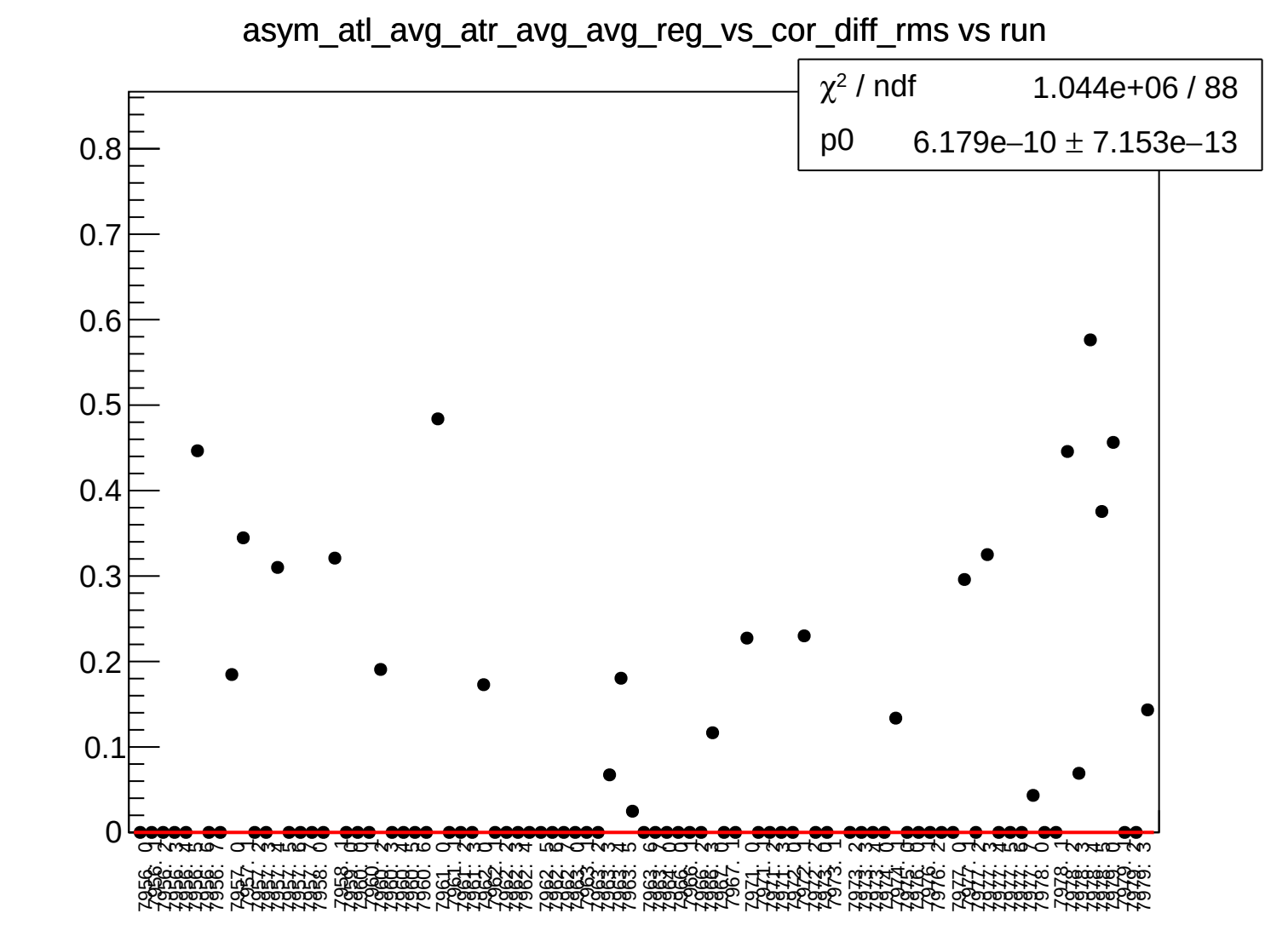

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 83.37 / 88
p0 −8411 ± 6469
×10³
200
100
0
−100
−200
pull
Entries 89
Mean −307
Std Dev 0
3
2
1
0
−1
−2

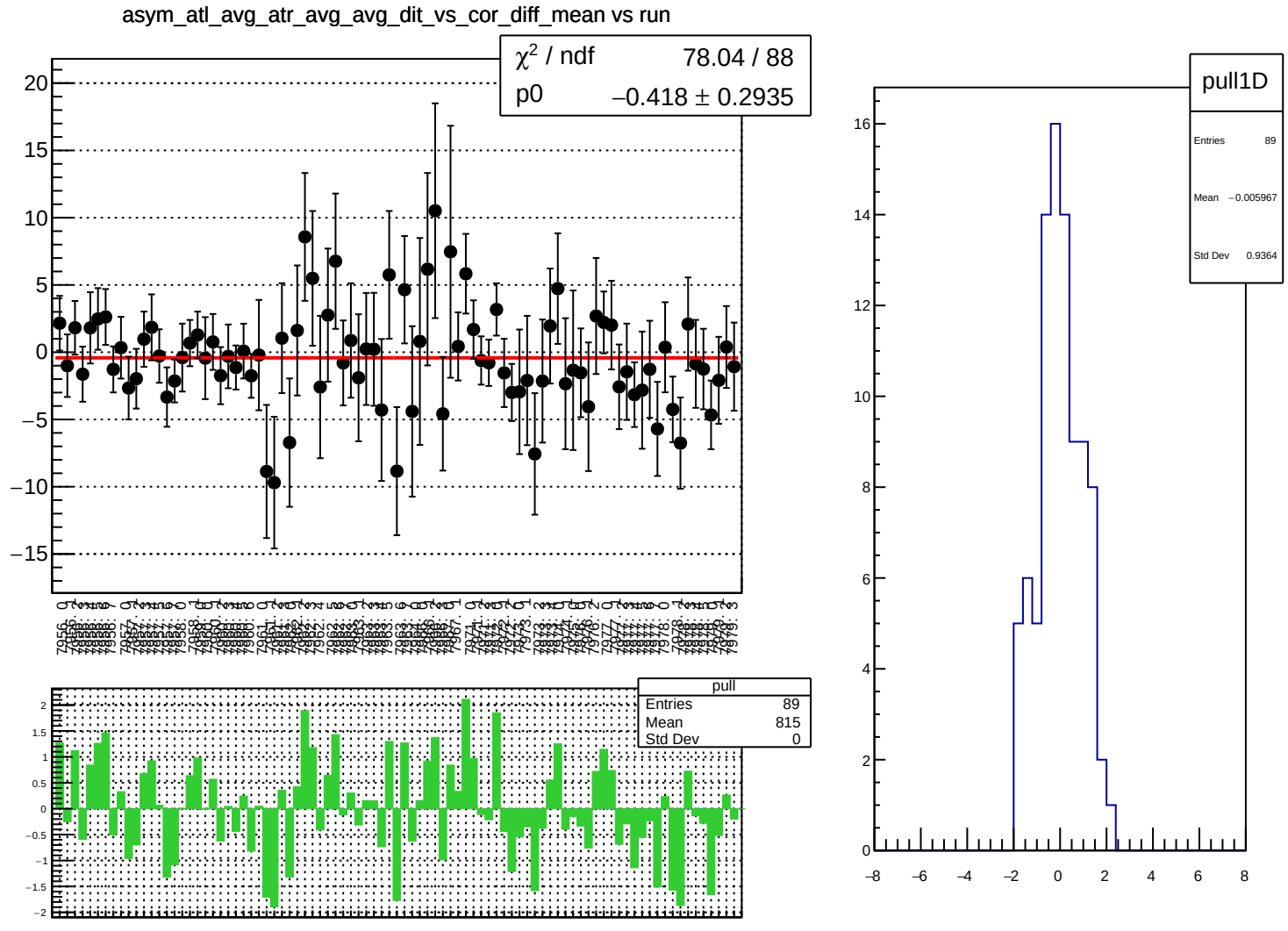

pull1D
Entries 89
Mean −0.006552
Std Dev 0.9678
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

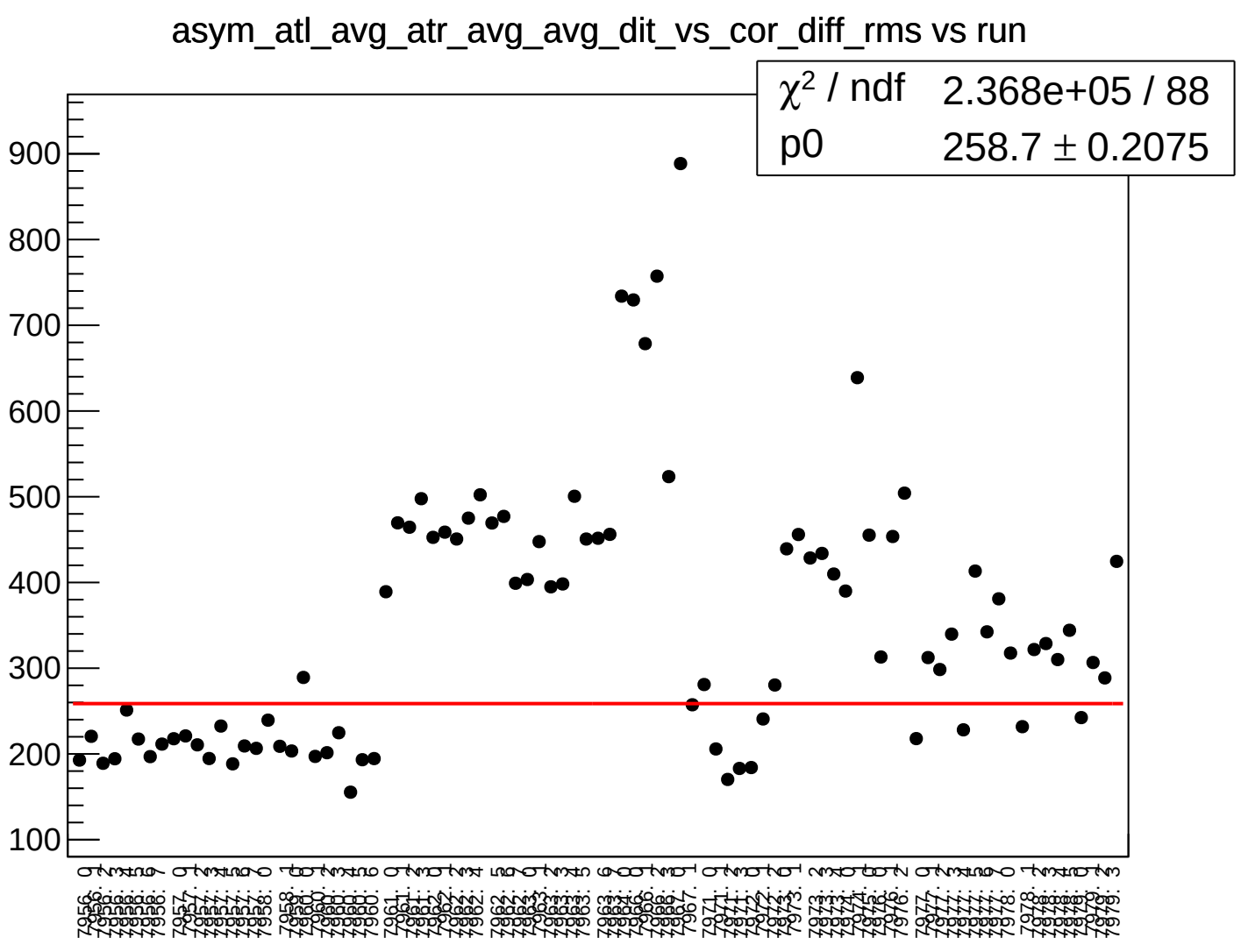

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5500 / 88
p0 6112 ± 4.575
6500
6000
5500
5000
4500

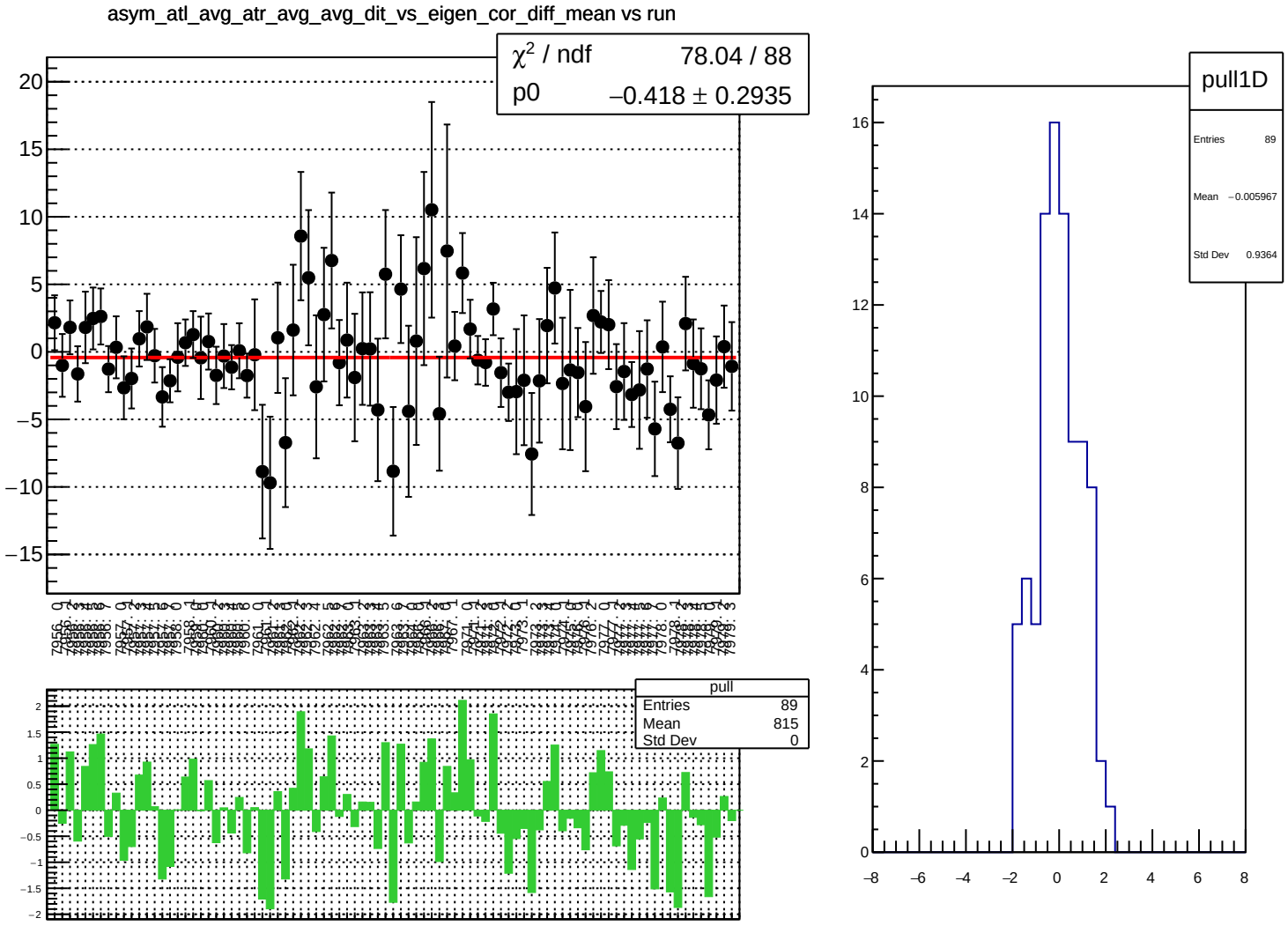

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.4 / 88
p0 −1.72e−12 ± 1.012e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 193.3
Std Dev 53.95
3
2
1
0
−1
−2

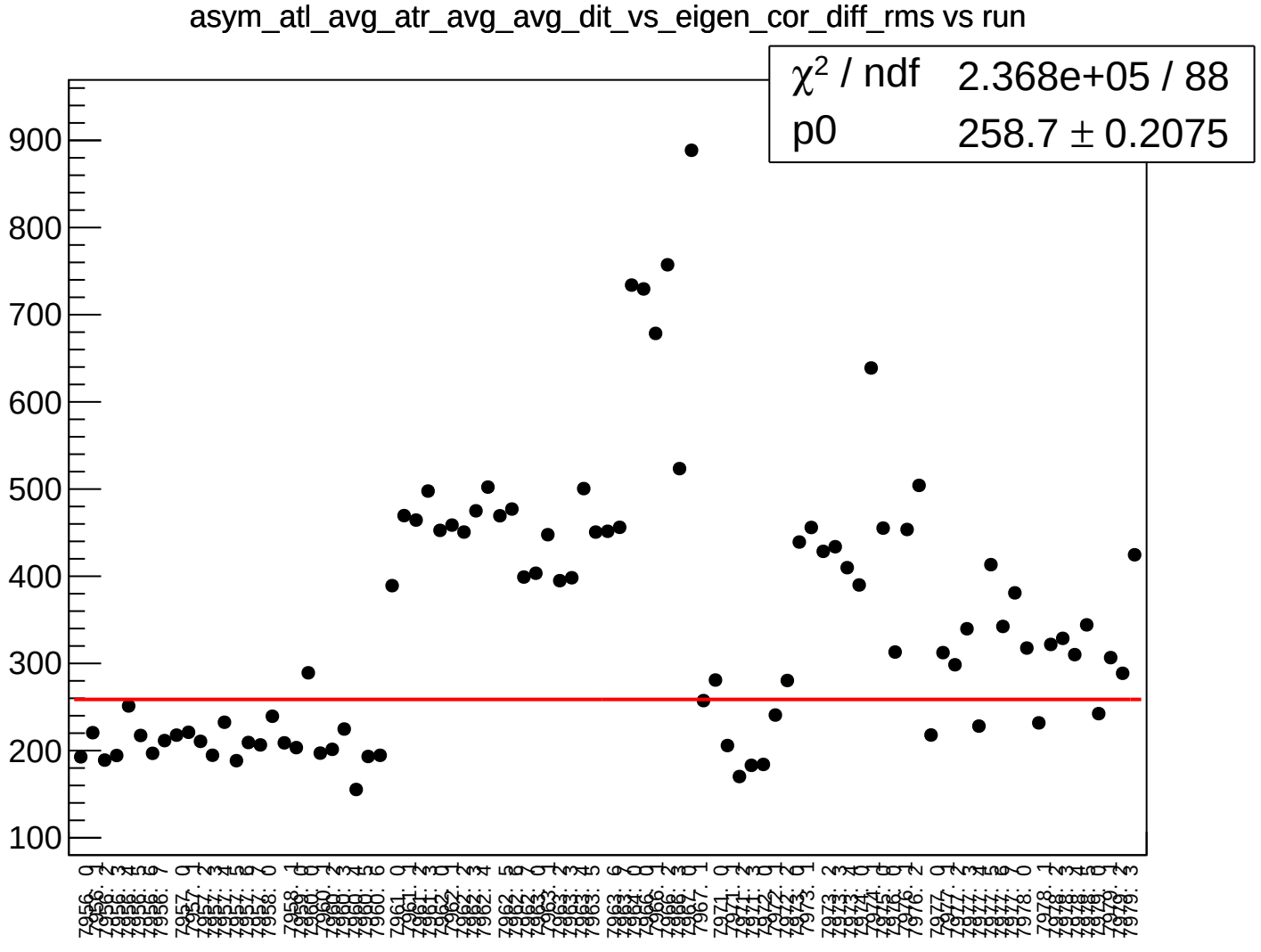

pull1D
Entries 89
Mean −0.005644
Std Dev 1.083
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

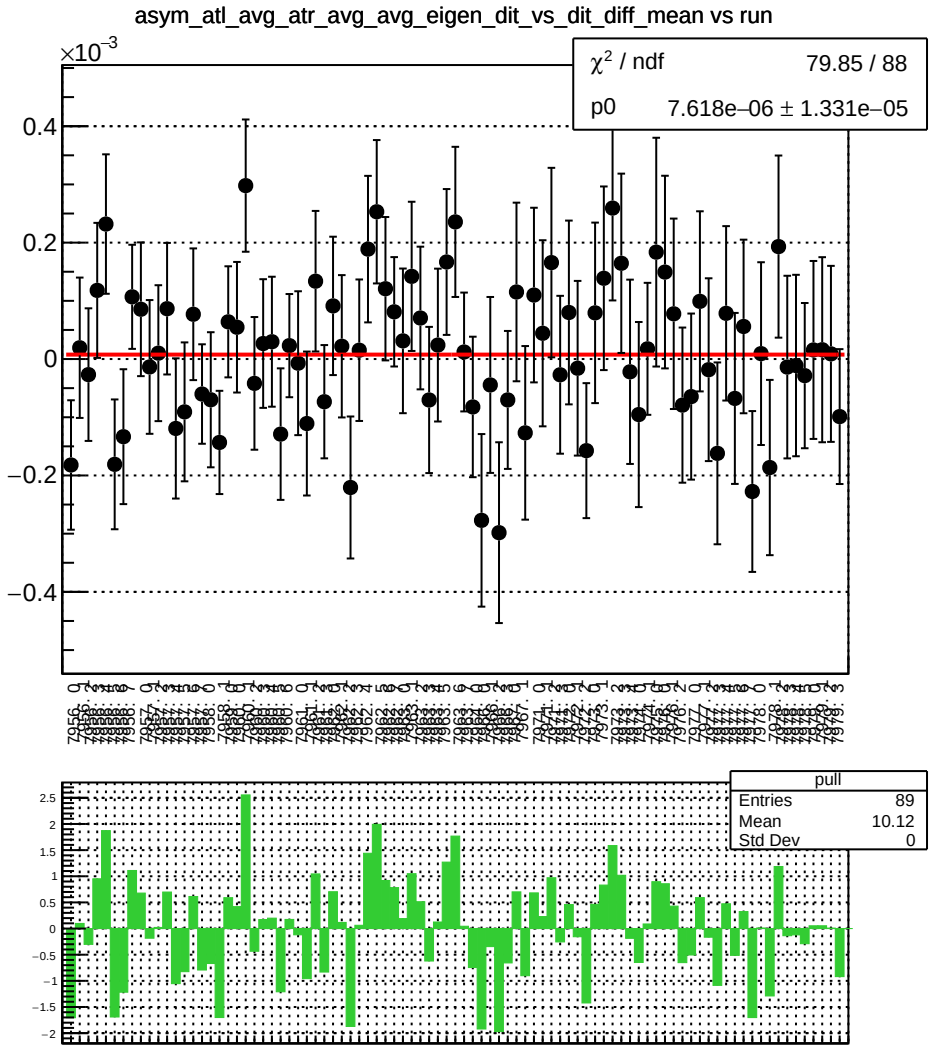

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.044e+06 / 88
p0 6.179e−10 ± 7.153e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

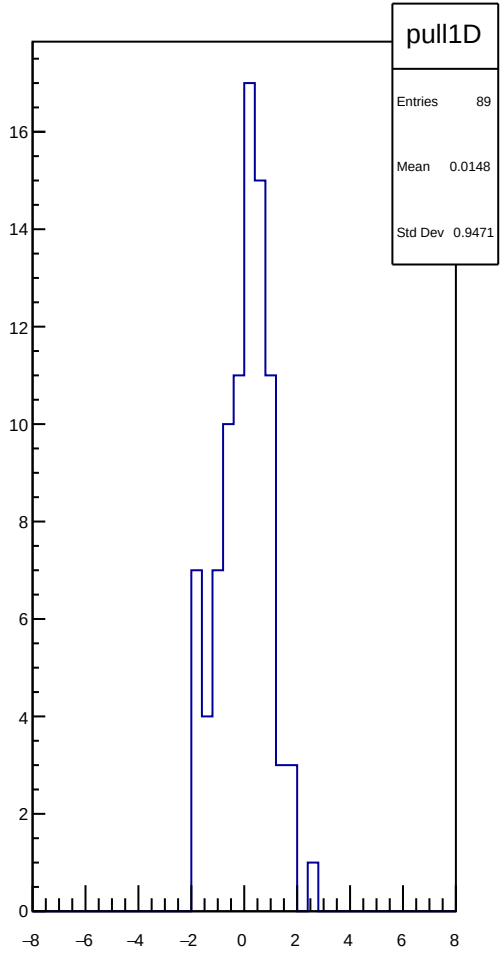

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.04 / 88
p0 −0.418 ± 0.2935
pull
Entries 89
Mean 815
Std Dev 0
pull1D
Entries 89
Mean −0.005967
Std Dev 0.9364

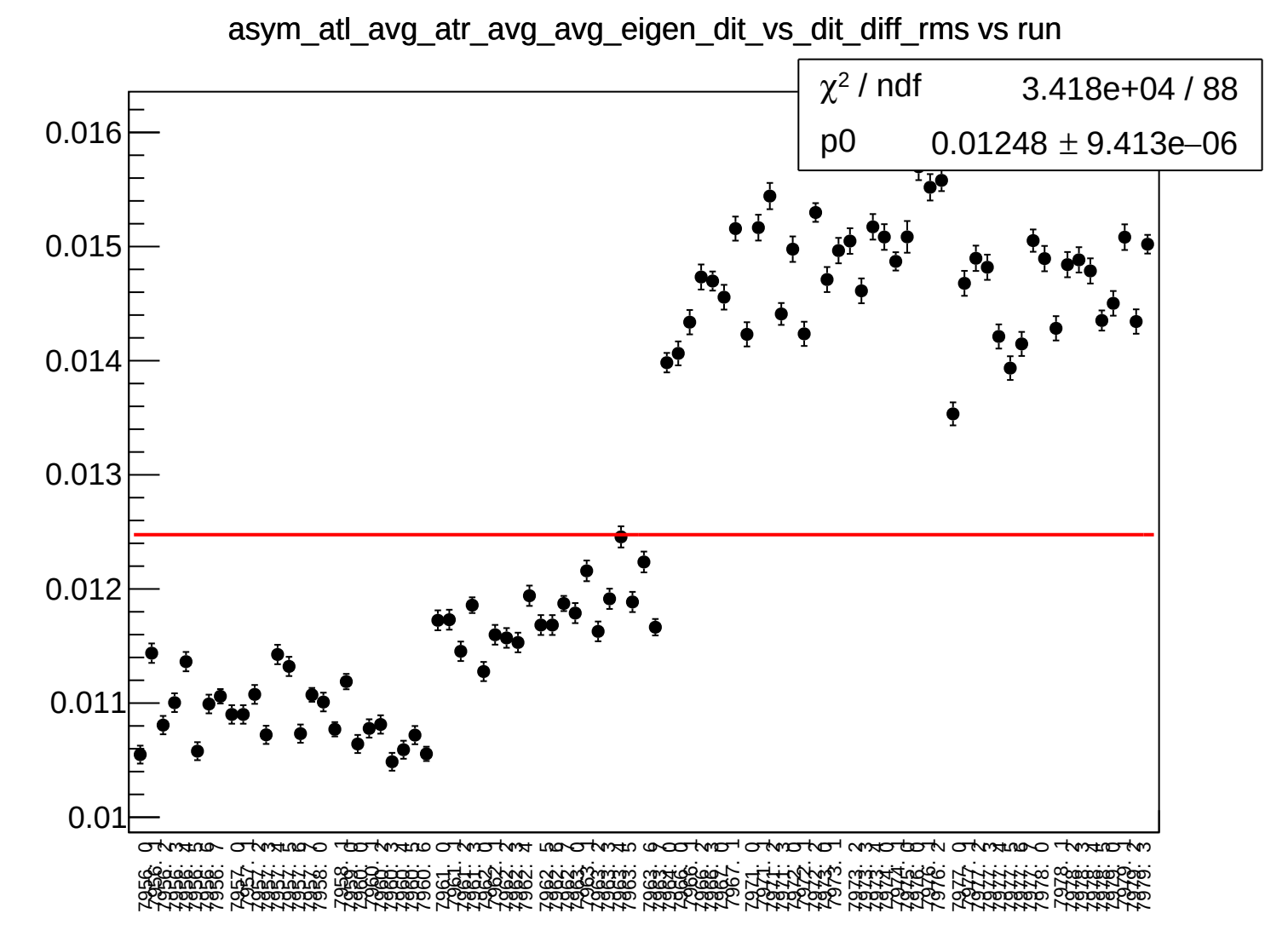

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.368e+05 / 88
p0 258.7 ± 0.2075
900
800
700
600
500
400
300
200
100

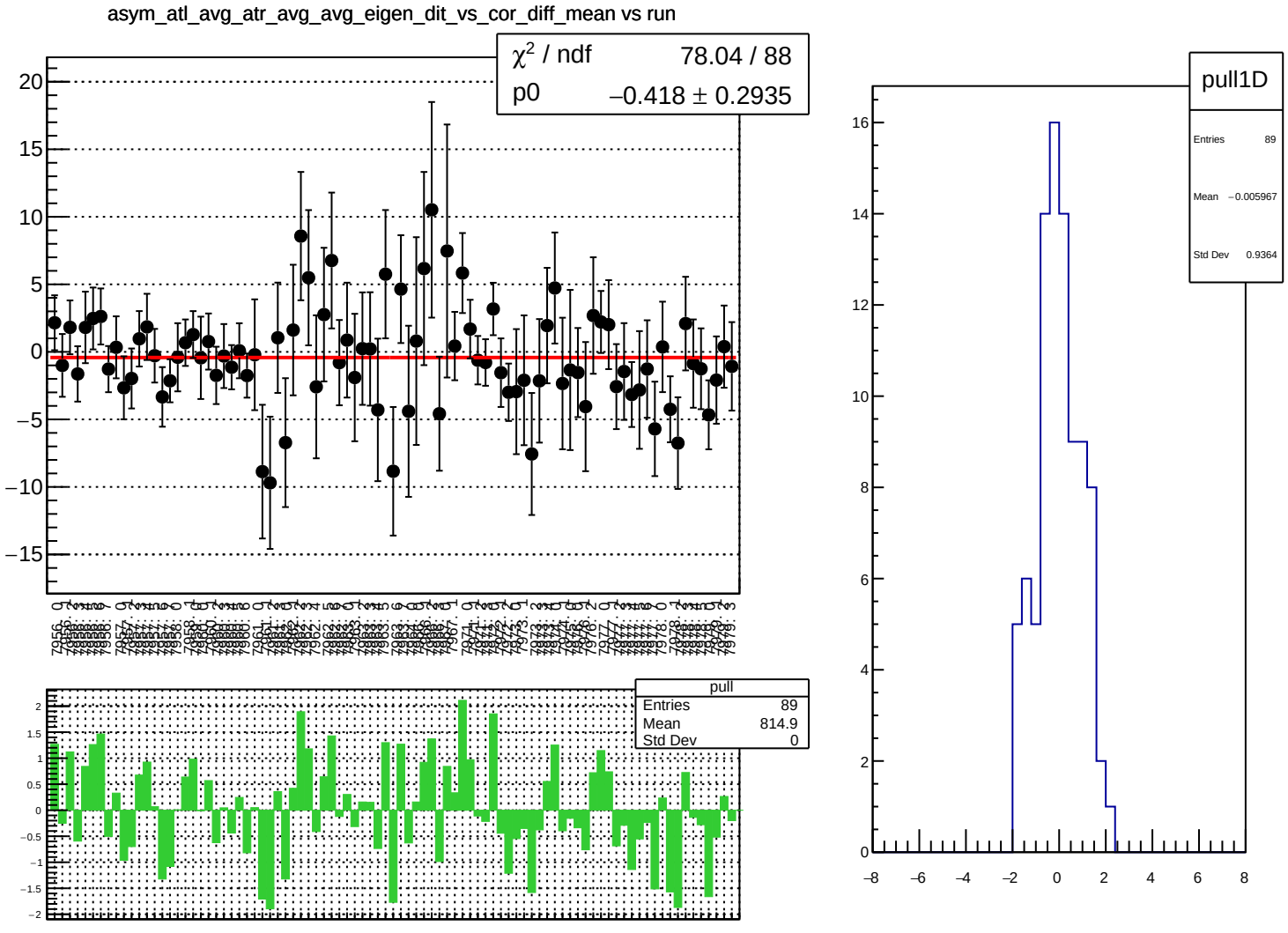

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.04 / 88
p0 −0.418 ± 0.2935
pull
Entries 89
Mean 815
Std Dev 0
pull1D
Entries 89
Mean −0.005967
Std Dev 0.9364

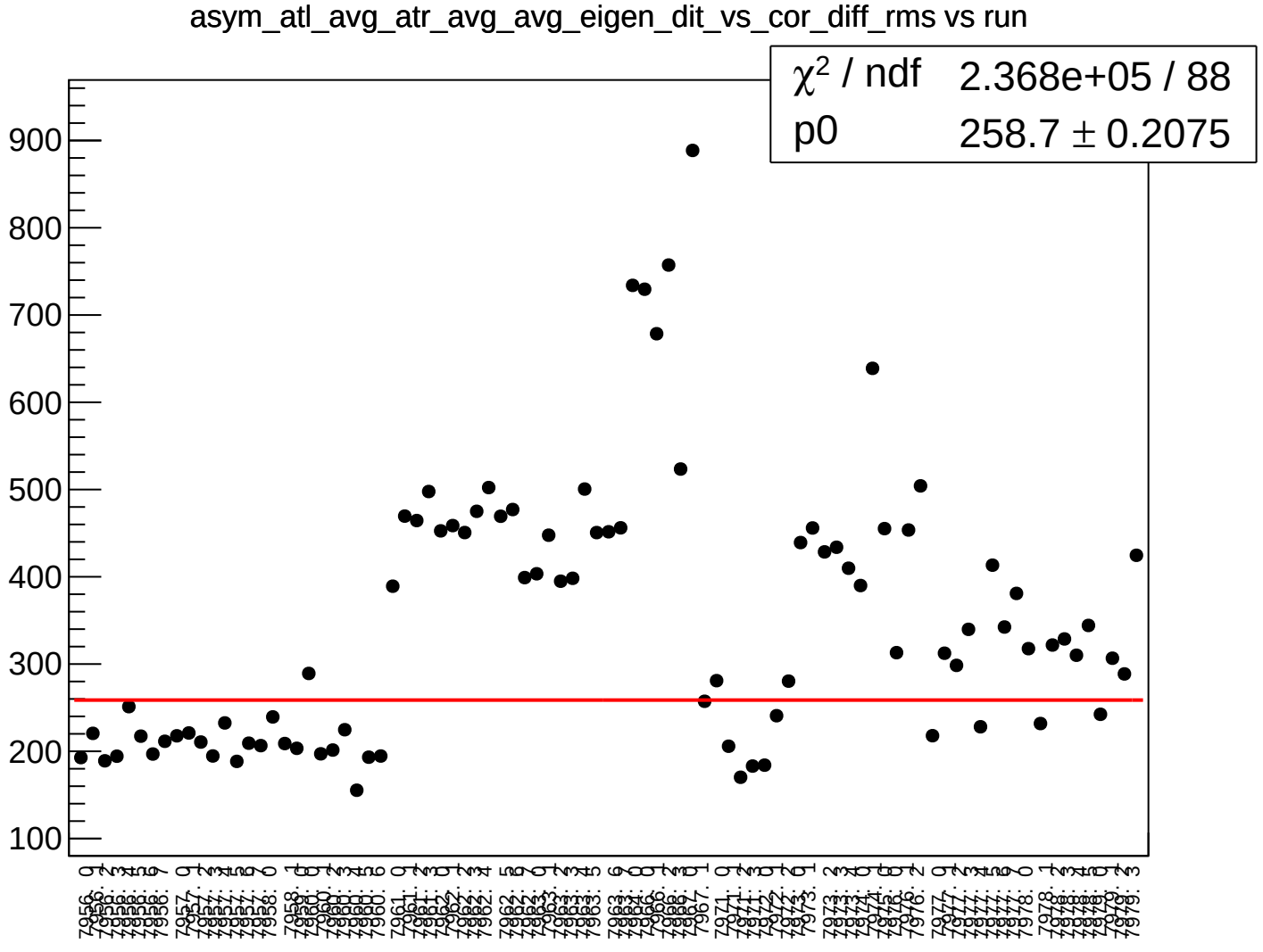

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.368e+05 / 88
p0 258.7 ± 0.2075
900
800
700
600
500
400
300
200
100

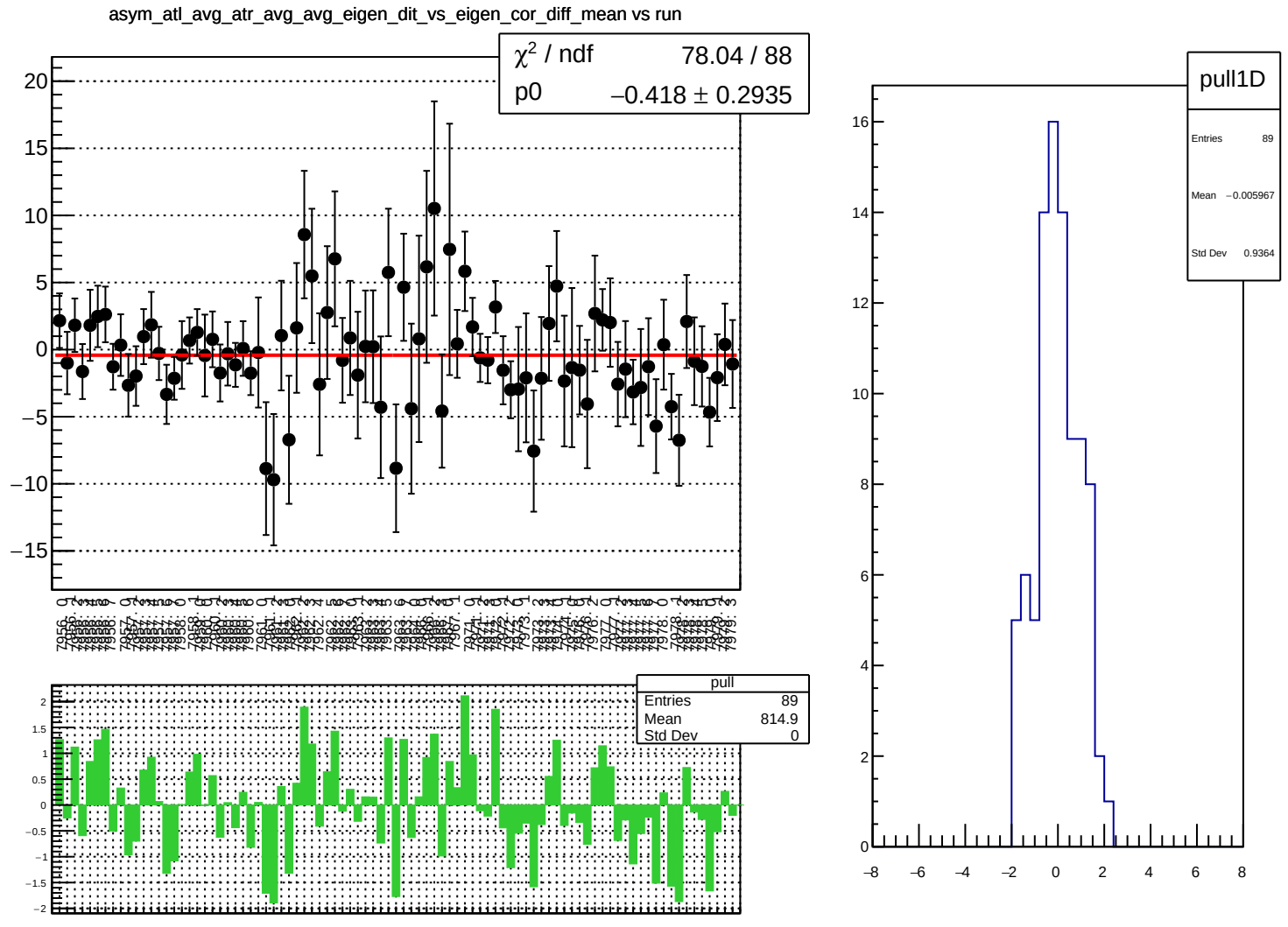

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.85 / 88
p0 7.618e−06 ± 1.331e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 10.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

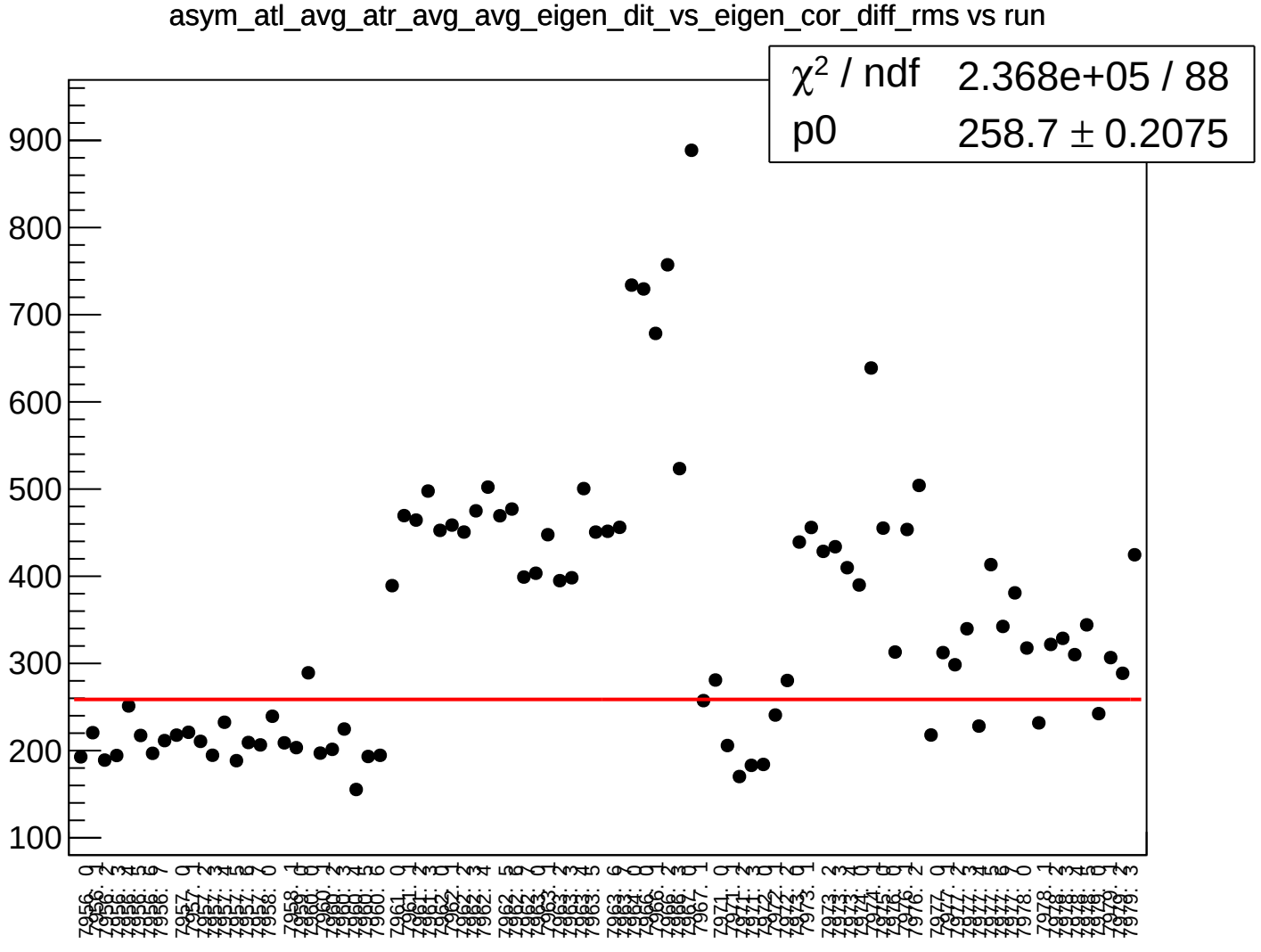

pull1D
Entries 89
Mean 0.0148
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

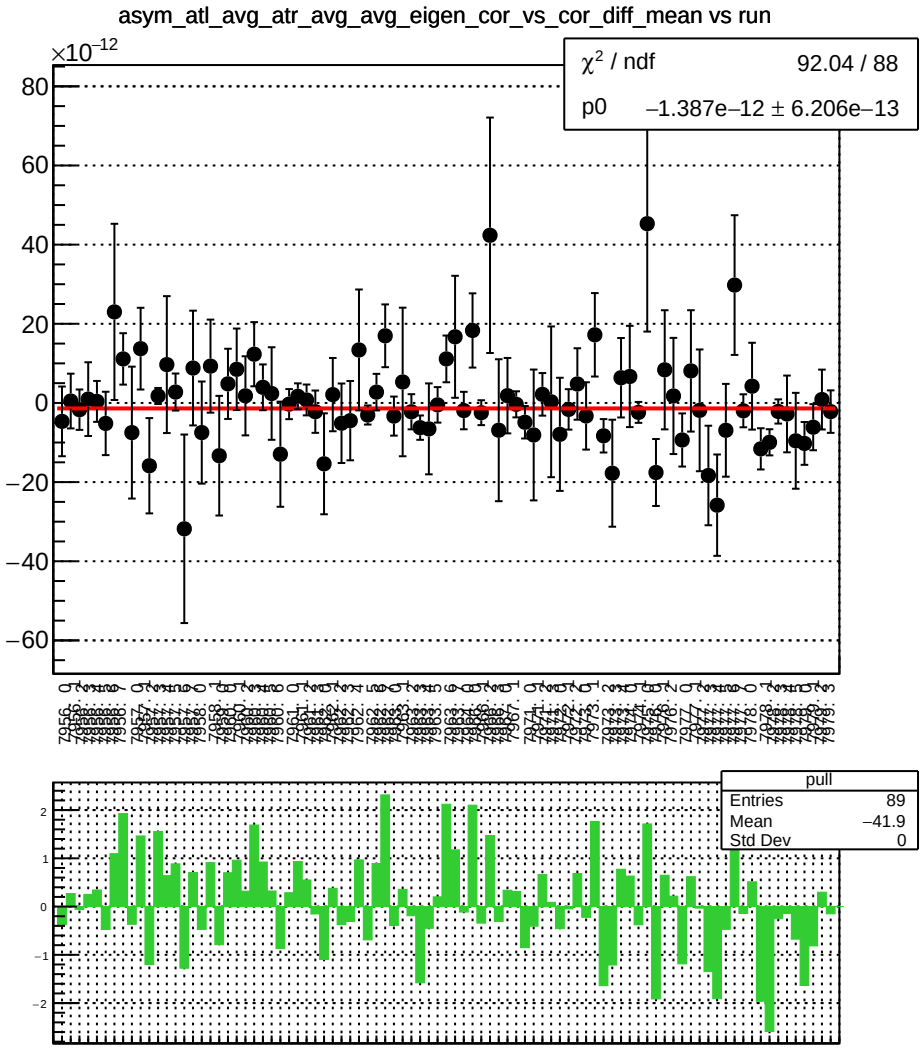

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.418e+04 / 88
p0 0.01248 ± 9.413e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

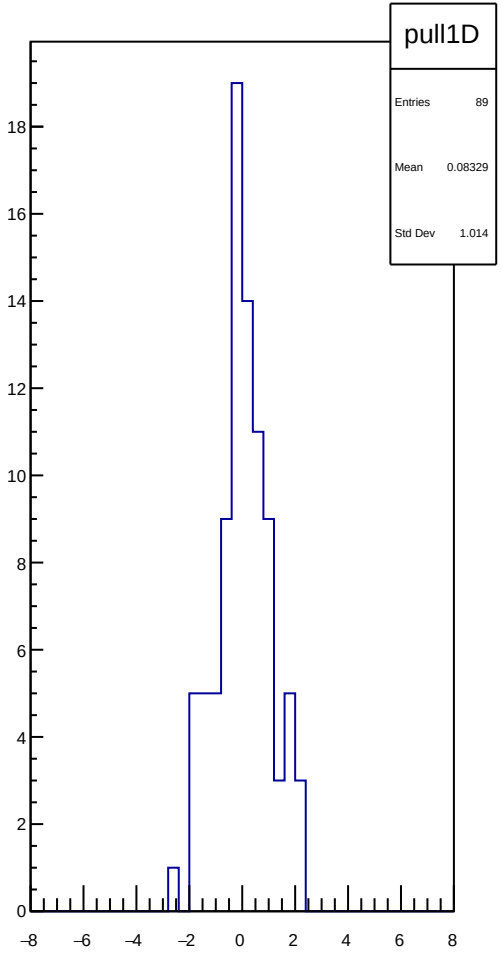

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.04 / 88
p0 −0.418 ± 0.2935
pull
Entries 89
Mean 814.9
Std Dev 0
pull1D
Entries 89
Mean −0.005967
Std Dev 0.9364

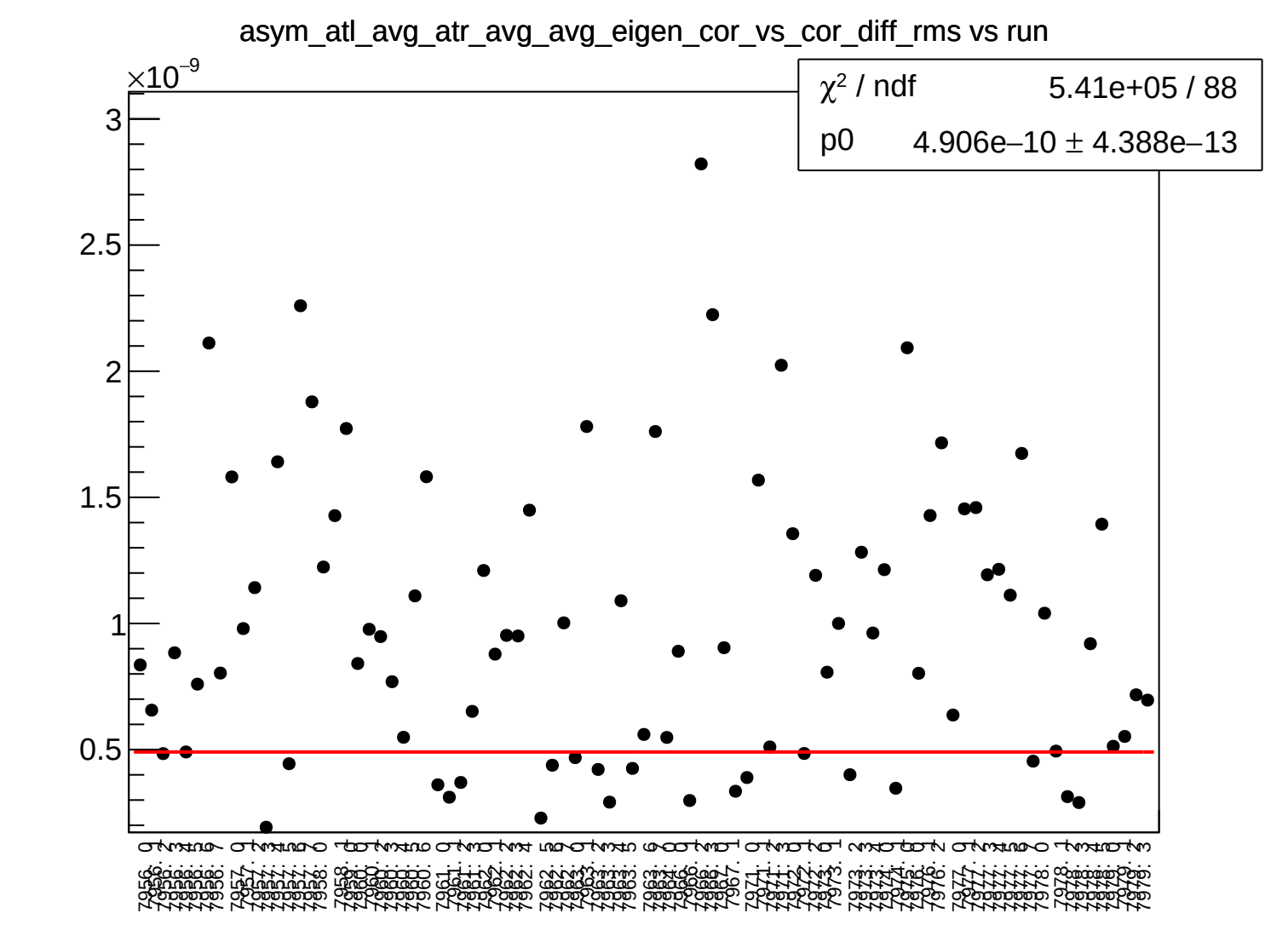

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.368e+05 / 88
p0 258.7 ± 0.2075
900
800
700
600
500
400
300
200
100

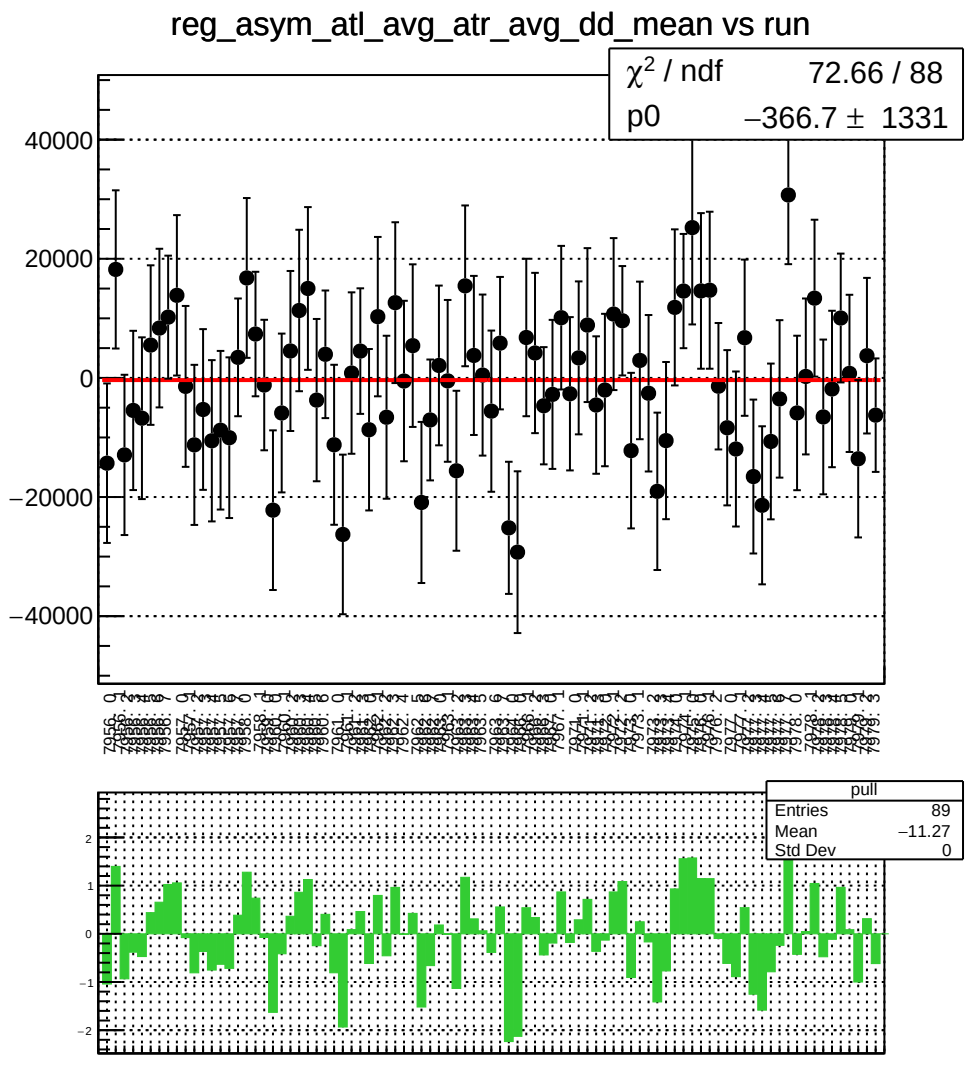

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.04 / 88
p0 −0.418 ± 0.2935
pull
Entries 89
Mean 814.9
Std Dev 0
pull1D
Entries 89
Mean −0.005967
Std Dev 0.9364

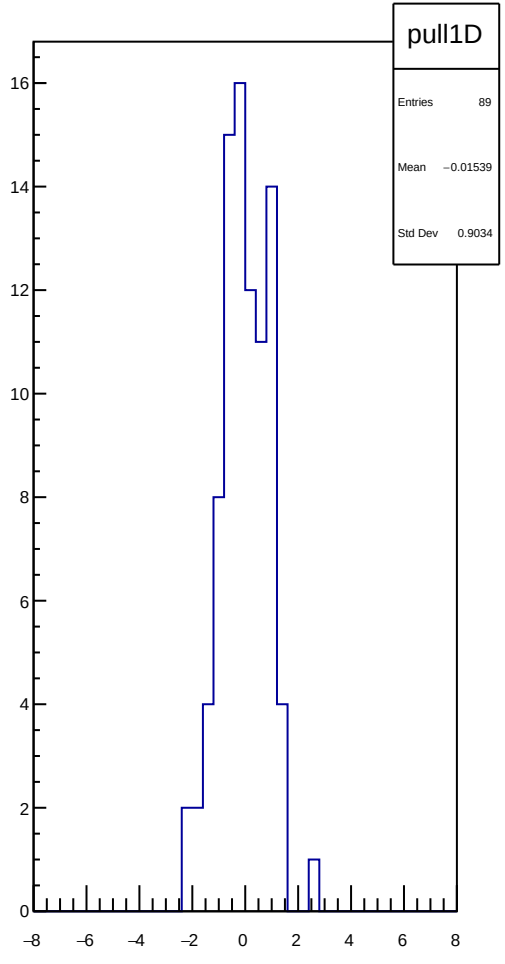

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.368e+05 / 88
p0 258.7 ± 0.2075
900
800
700
600
500
400
300
200
100

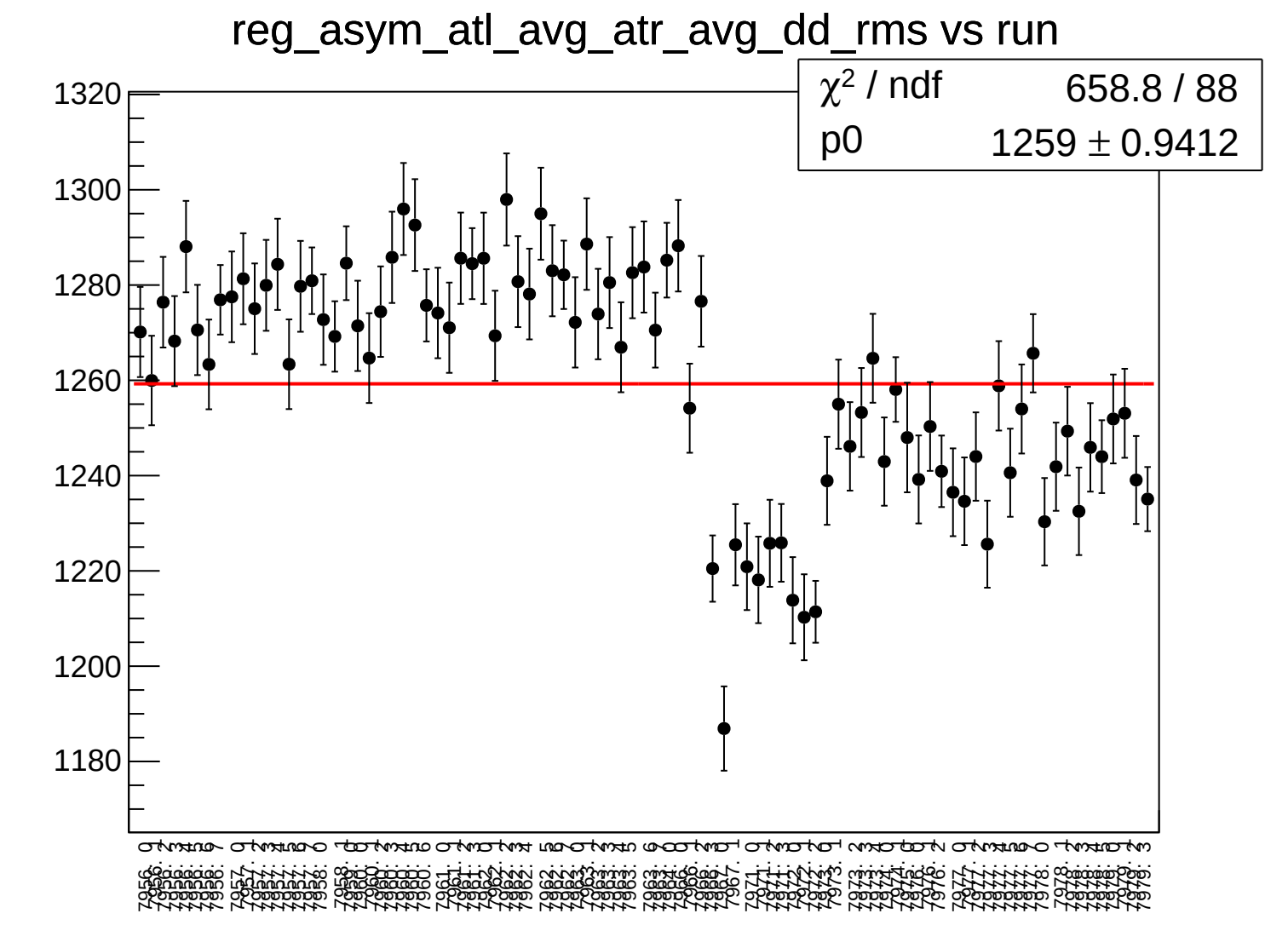

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.04 / 88
p0 −1.387e−12 ± 6.206e−13
pull
Entries 89
Mean −41.9
Std Dev 0

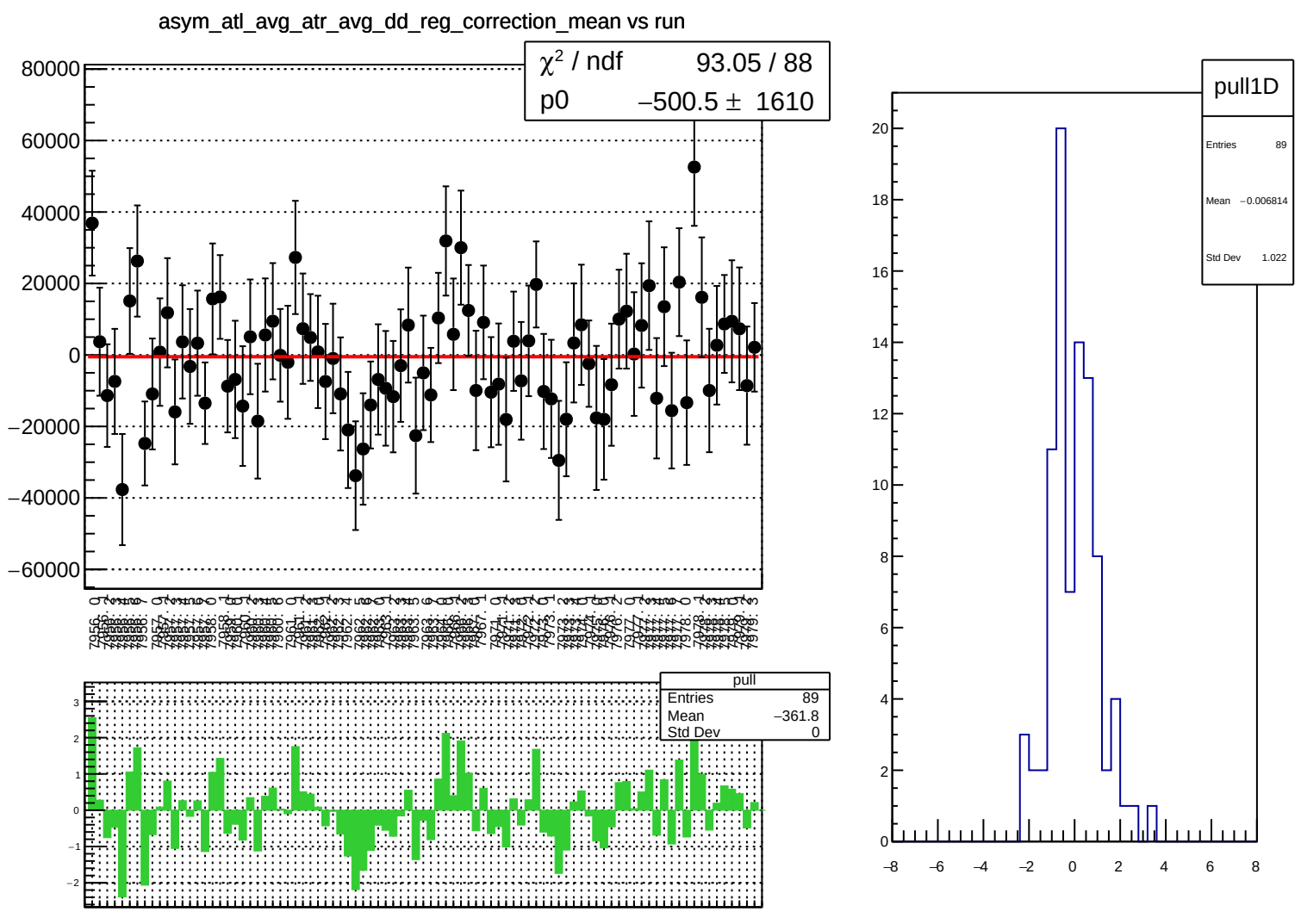

pull1D
Entries 89
Mean 0.08329
Std Dev 1.014

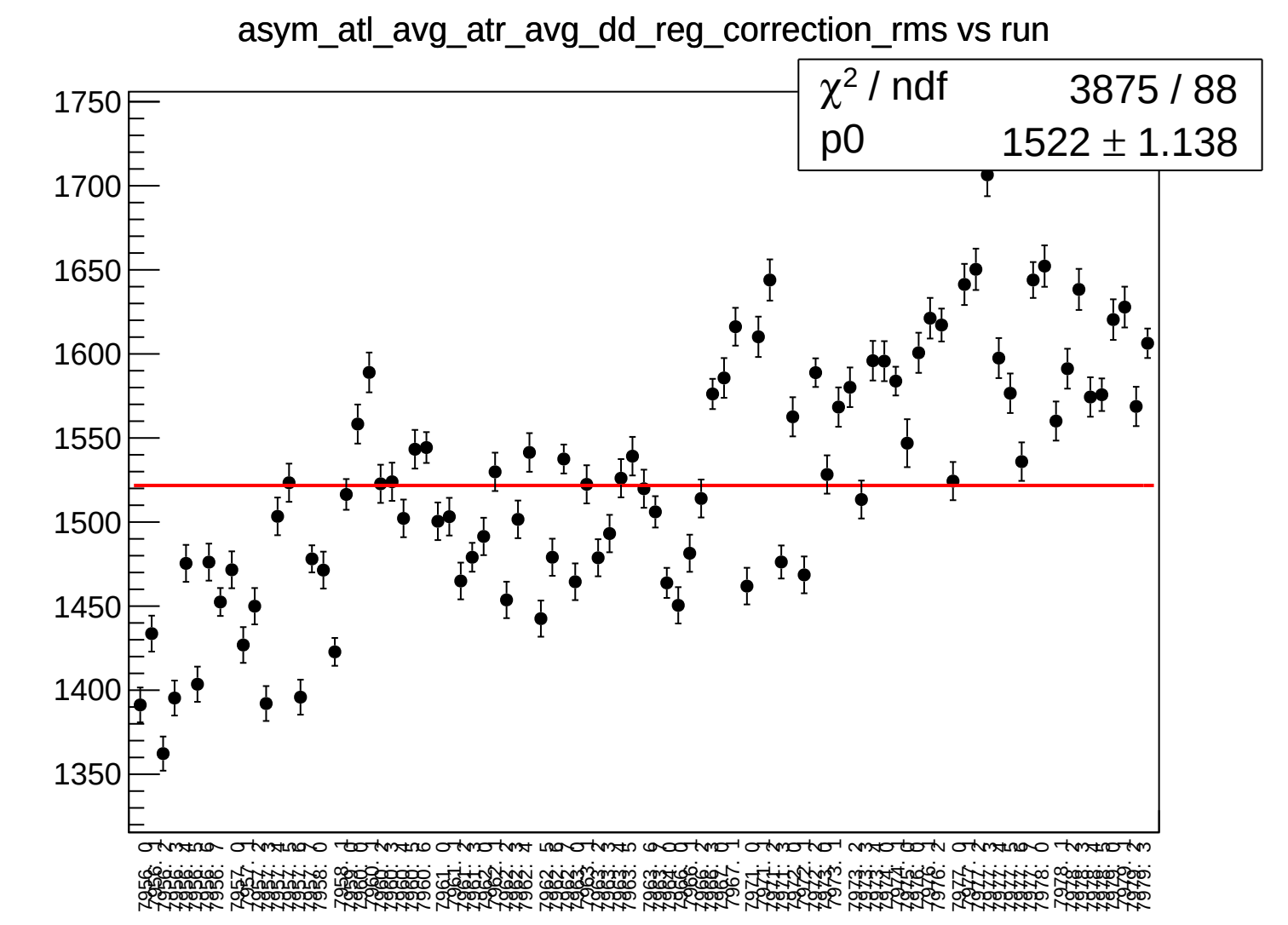

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.41e+05 / 88
p0 4.906e−10 ± 4.388e−13
3
2.5
2
1.5
1
0.5

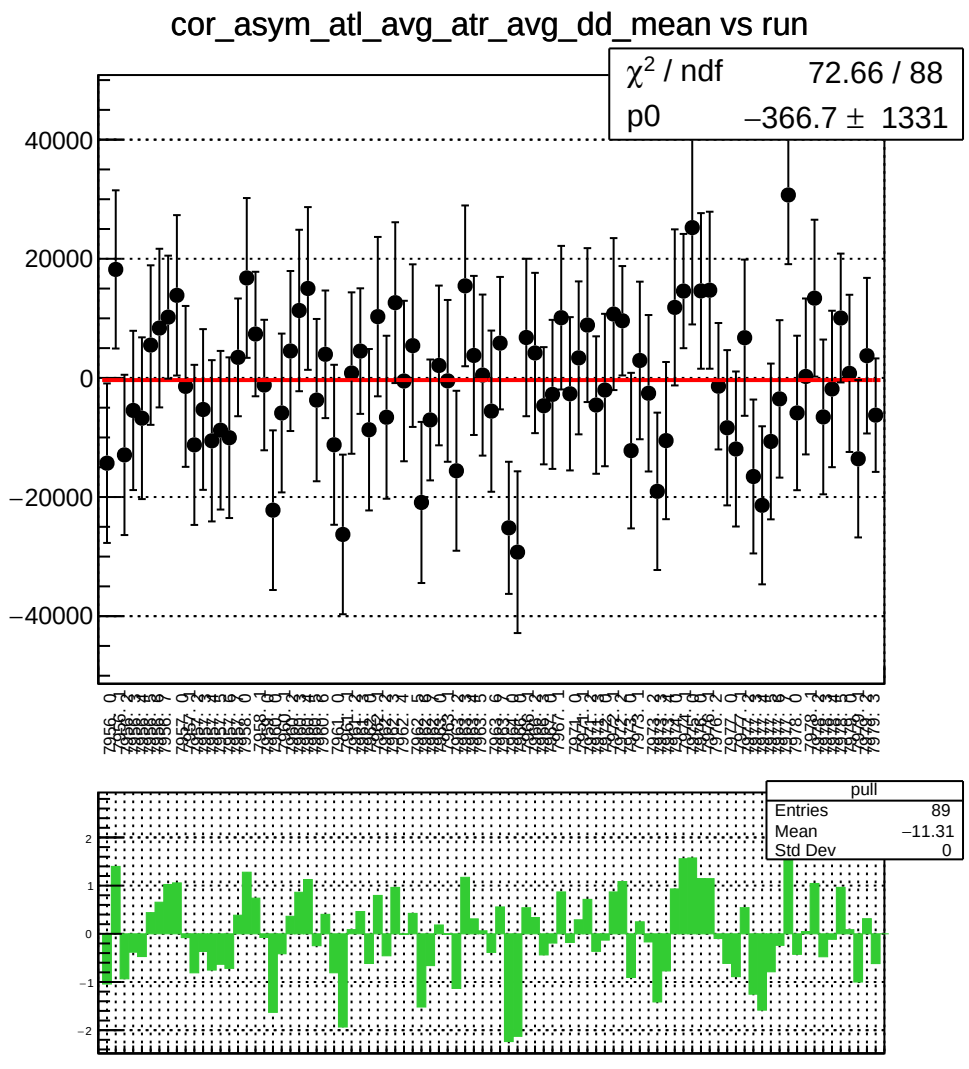

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 72.66 / 88
p0 −366.7 ± 1331
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −11.27
Std Dev 0
2
1
0
−1
−2

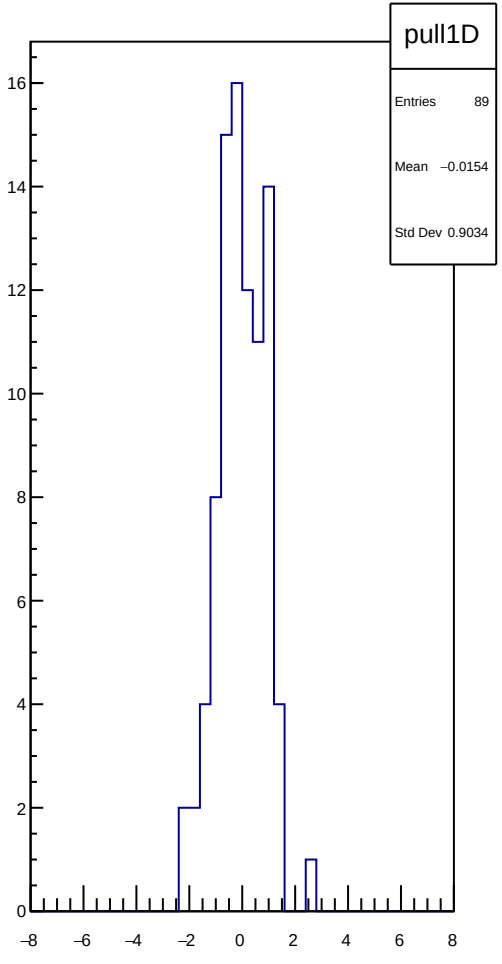

pull1D
Entries 89
Mean −0.01539
Std Dev 0.9034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

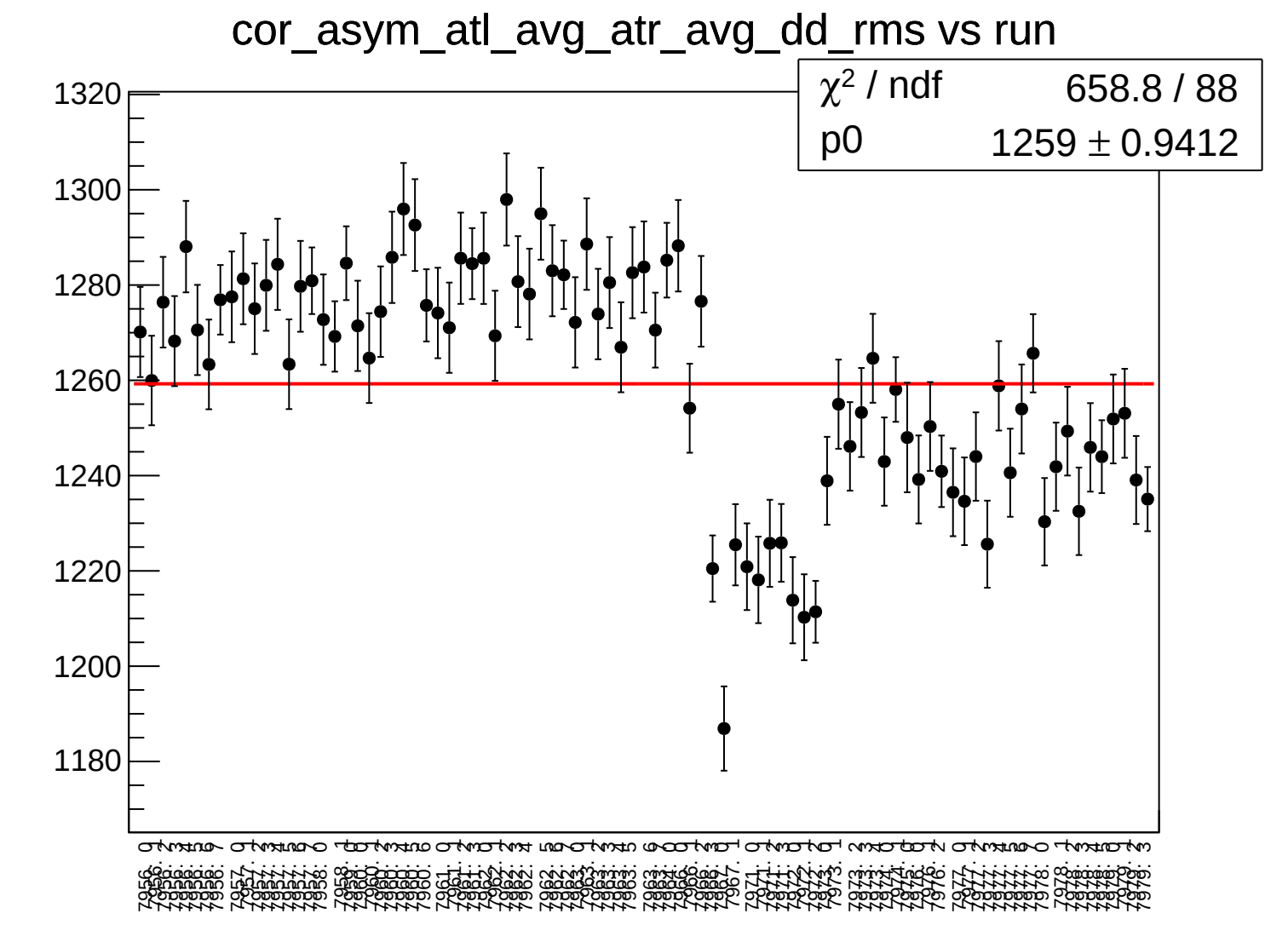

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 658.8 / 88
p0 1259 ± 0.9412
1320
1300
1280
1260
1240
1220
1200
1180

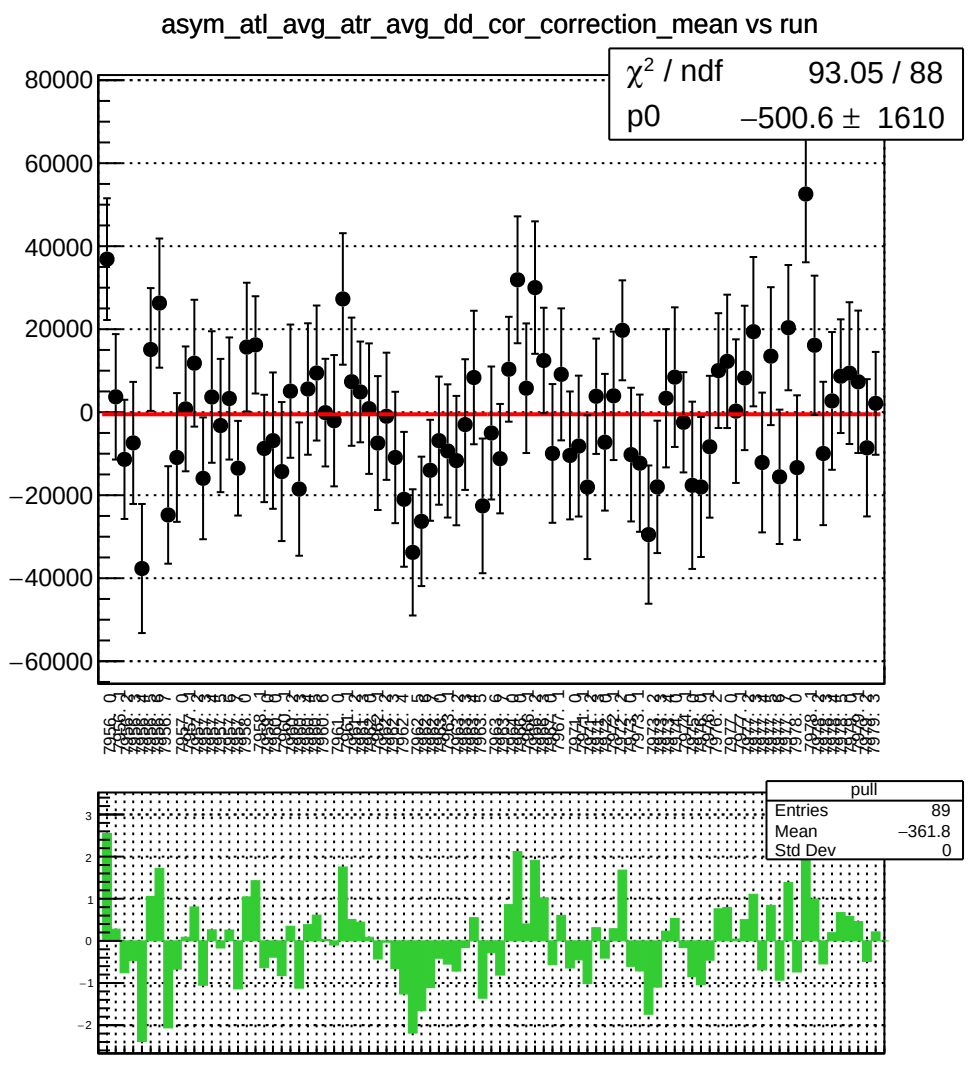

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 93.05 / 88
p0 −500.5 ± 1610
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −361.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.006814
Std Dev 1.022
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

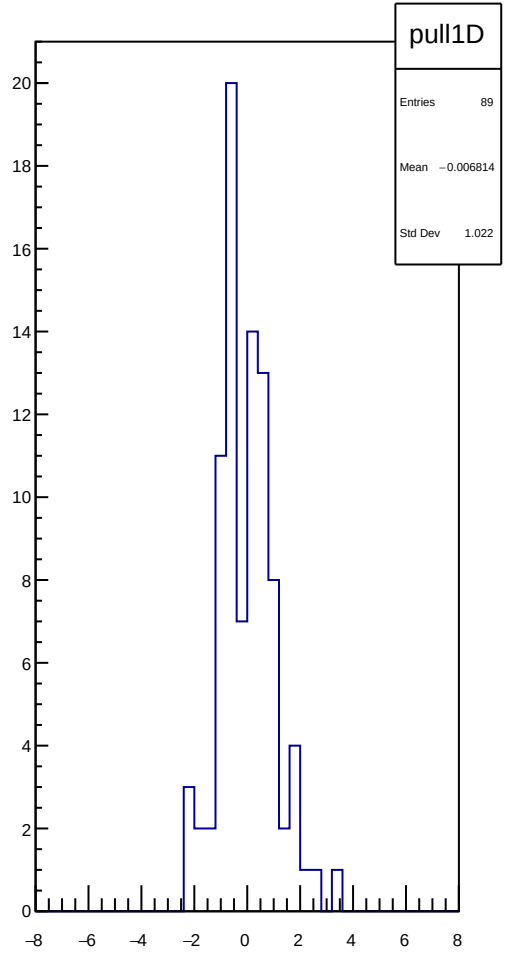

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 3875 / 88
p0 1522 ± 1.138
1750
1700
1650
1600
1550
1500
1450
1400
1350

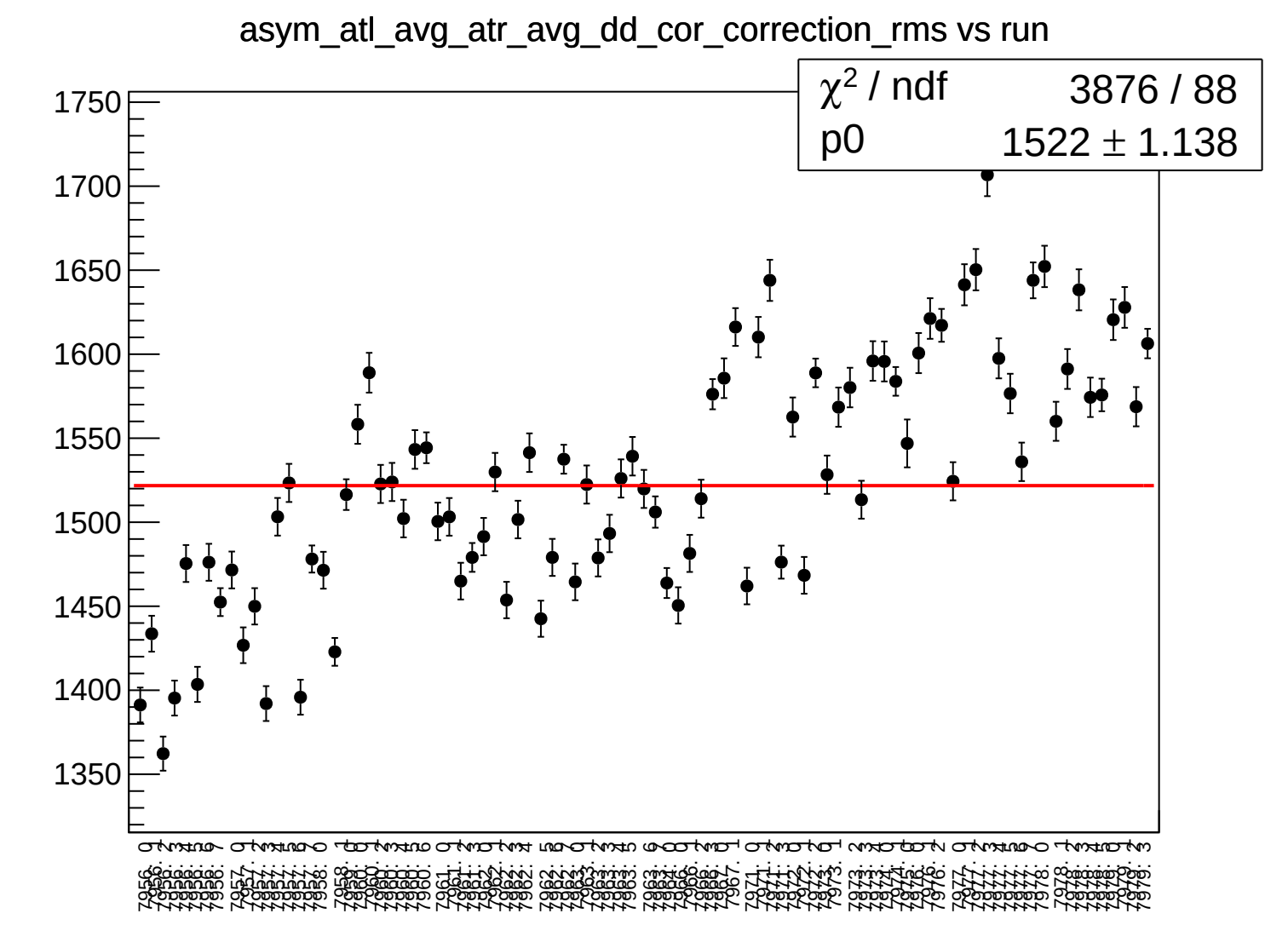

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 72.66 / 88
p0 −366.7 ± 1331
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −11.31
Std Dev 0
2
1
0
−1
−2

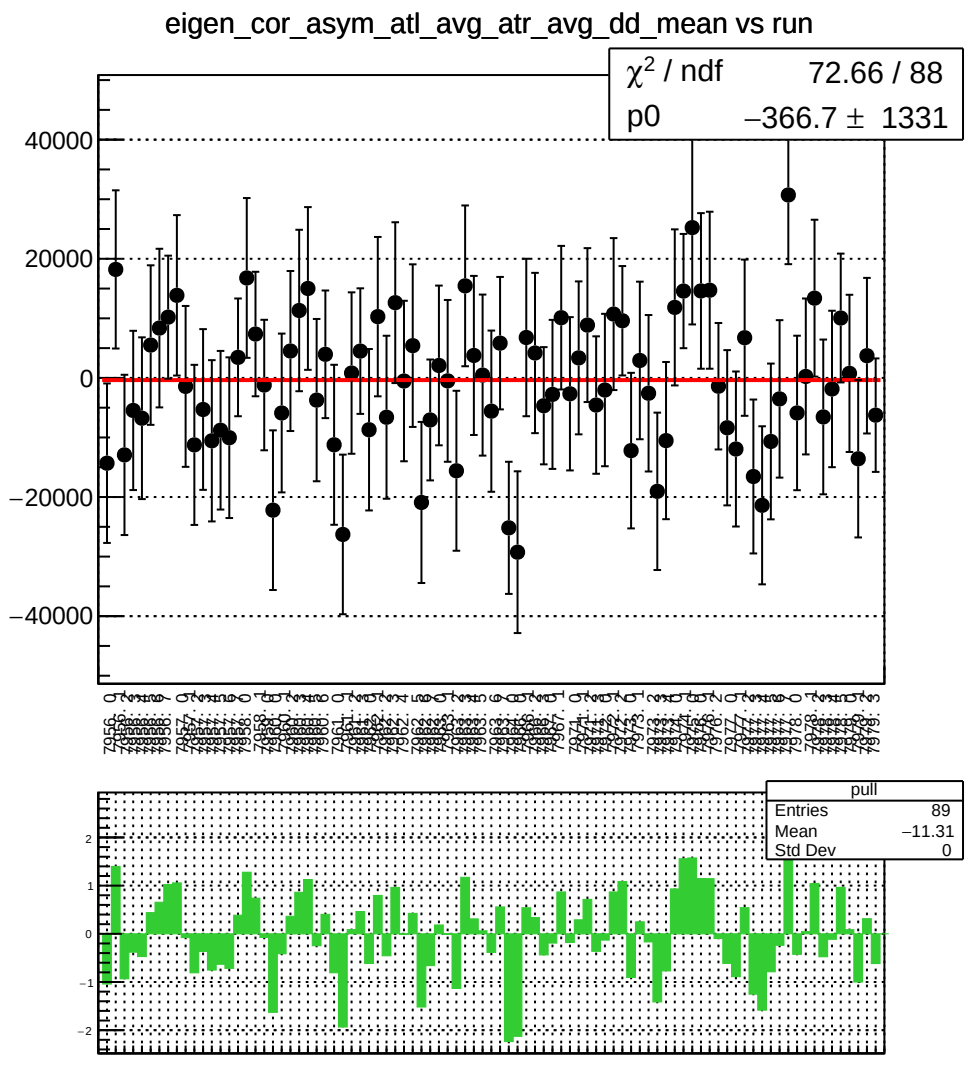

pull1D
Entries 89
Mean −0.0154
Std Dev 0.9034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

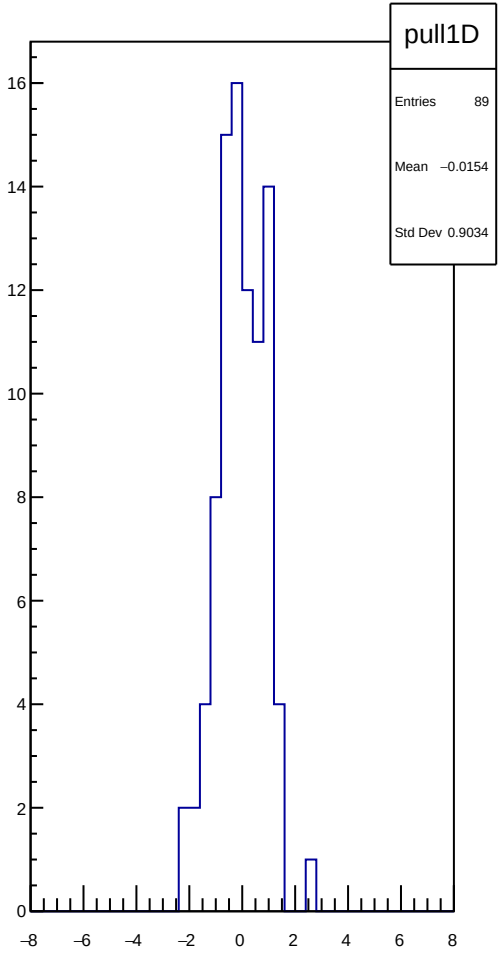

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 658.8 / 88
p0 1259 ± 0.9412
1320
1300
1280
1260
1240
1220
1200
1180

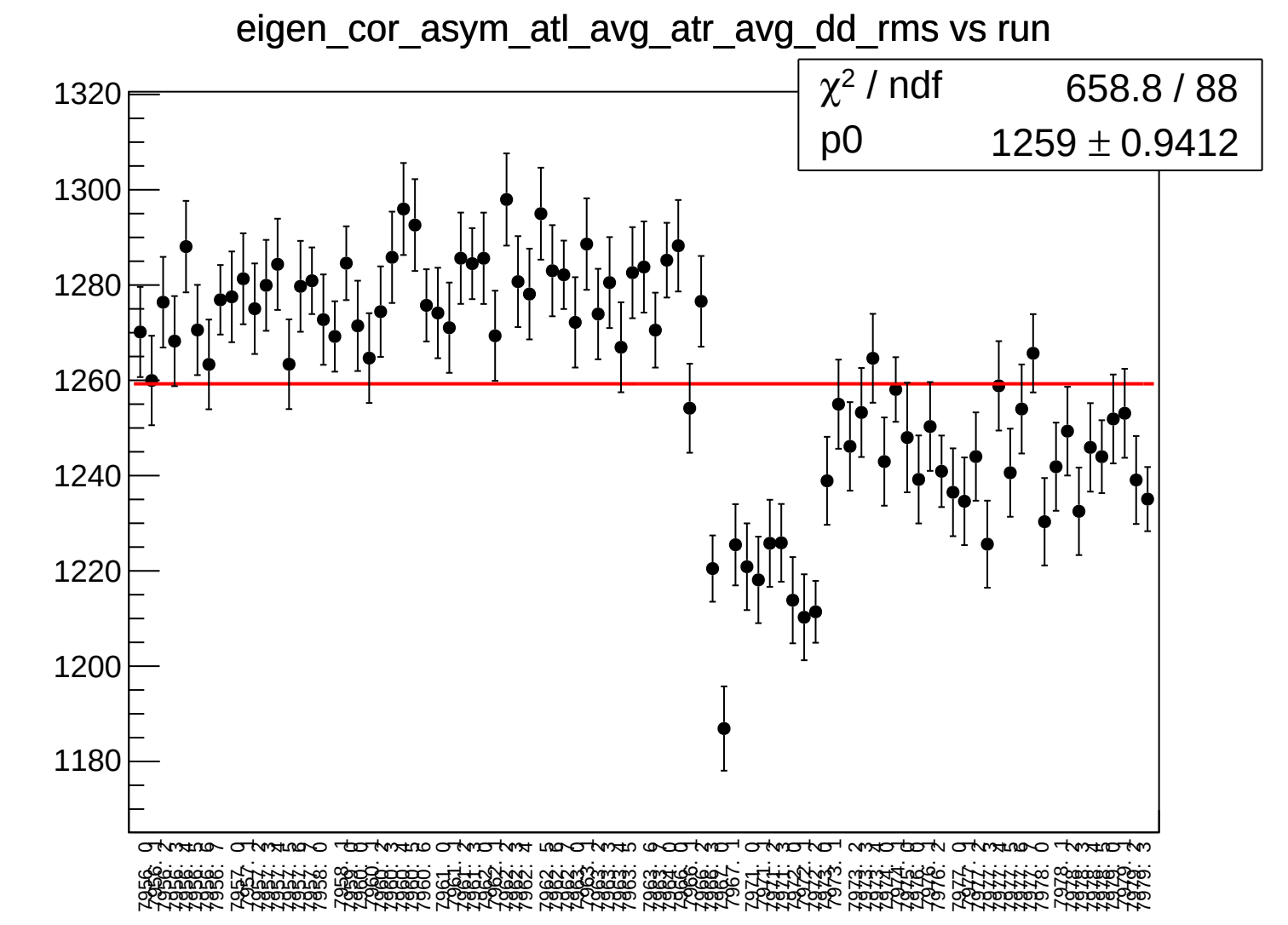

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 93.05 / 88
p0 −500.6 ± 1610
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −361.8
Std Dev 0
3
2
1
0
−1
−2

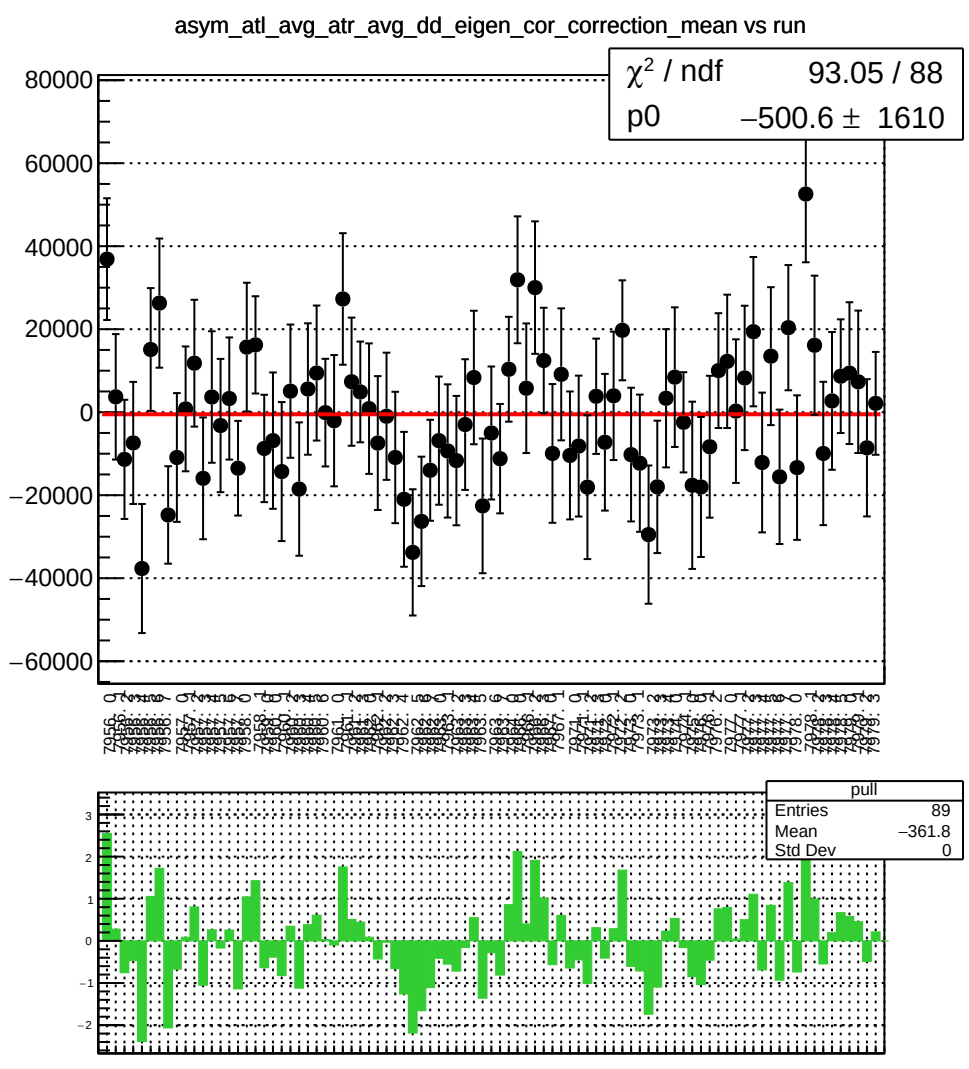

pull1D
Entries 89
Mean −0.006814
Std Dev 1.022
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

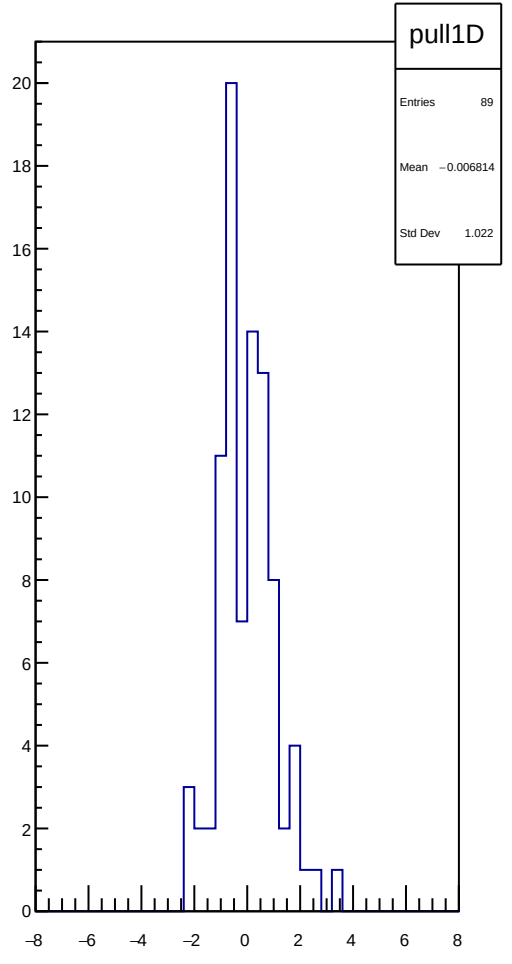

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 3876 / 88
p0 1522 ± 1.138
1750
1700
1650
1600
1550
1500
1450
1400
1350

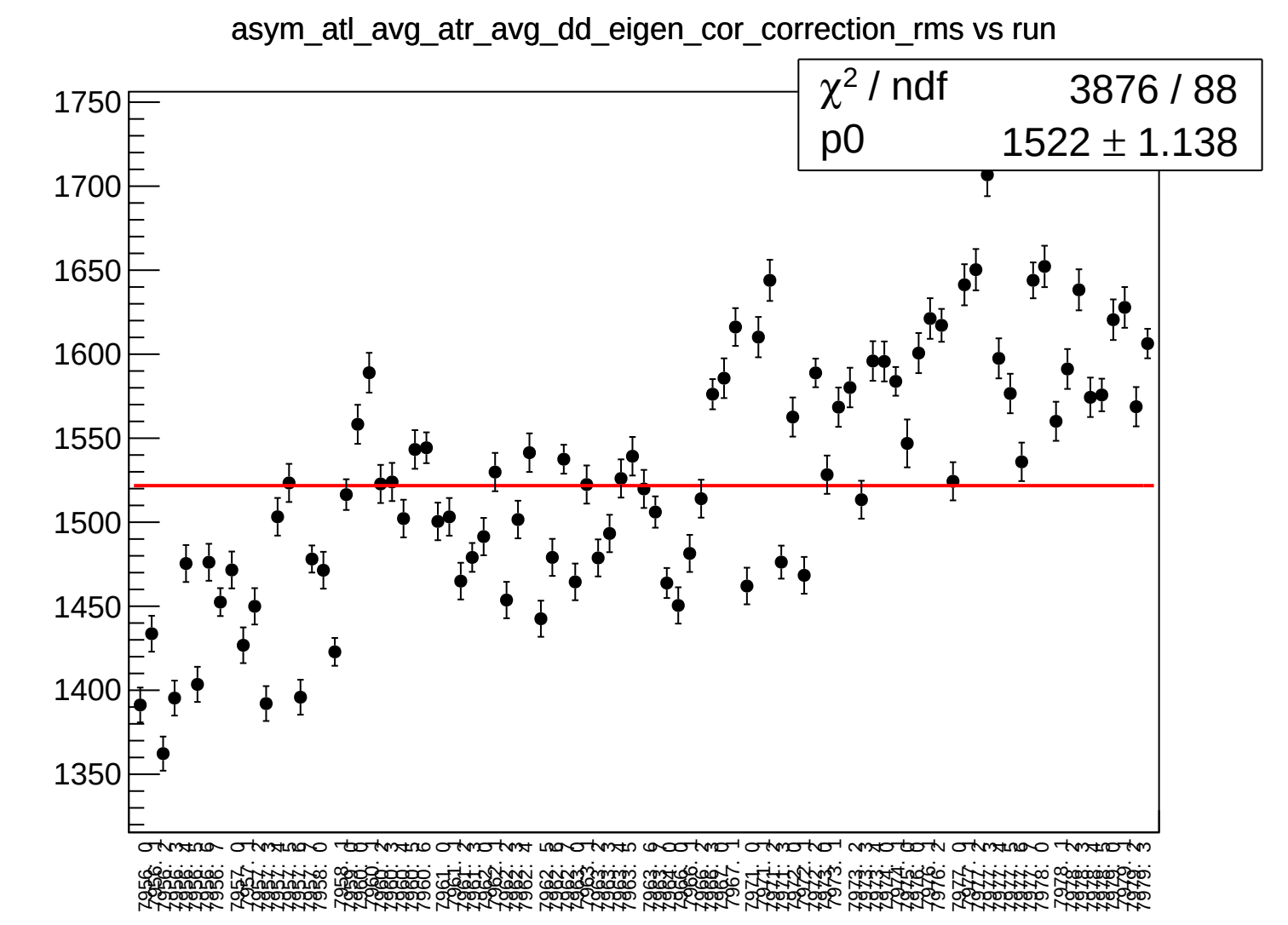

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 72.66 / 88
p0 −366.7 ± 1331
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −11.31
Std Dev 0
2
1
0
−1
−2

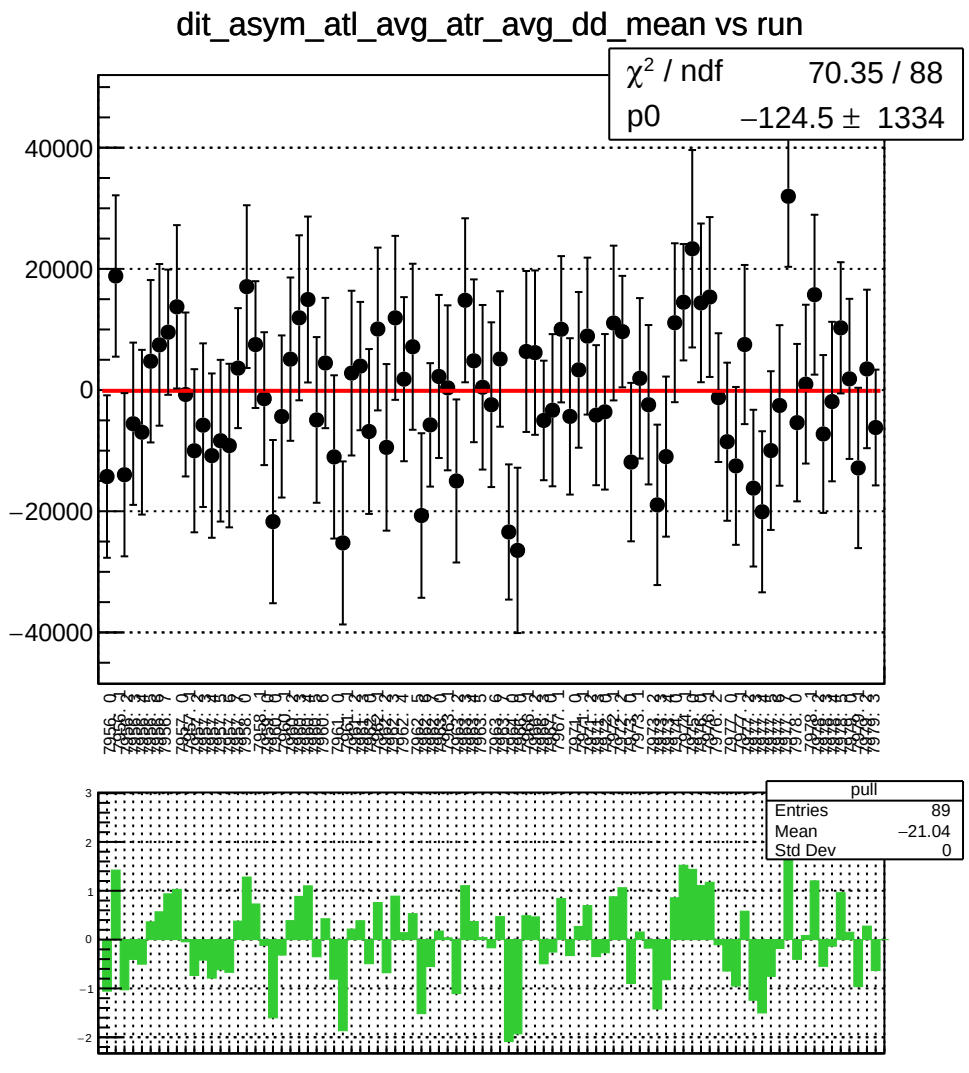

pull1D
Entries 89
Mean −0.0154
Std Dev 0.9034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

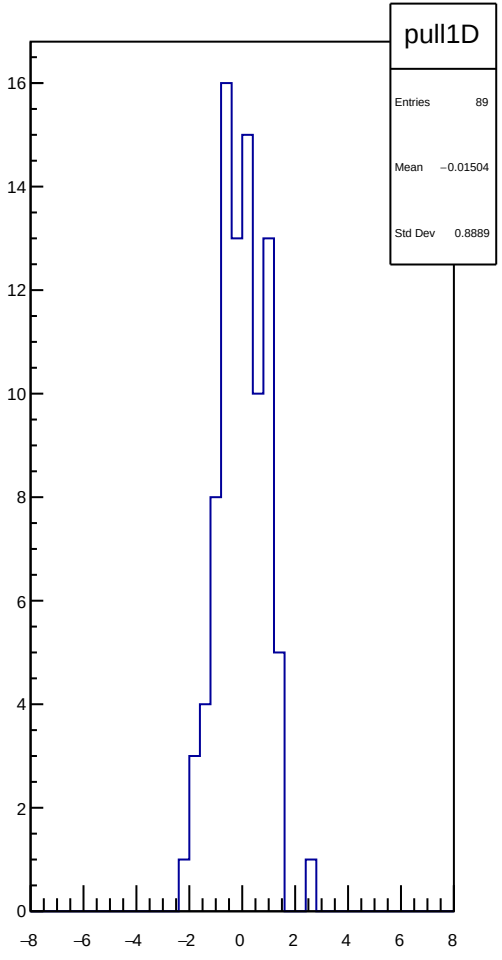

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 658.8 / 88
p0 1259 ± 0.9412
1320
1300
1280
1260
1240
1220
1200
1180

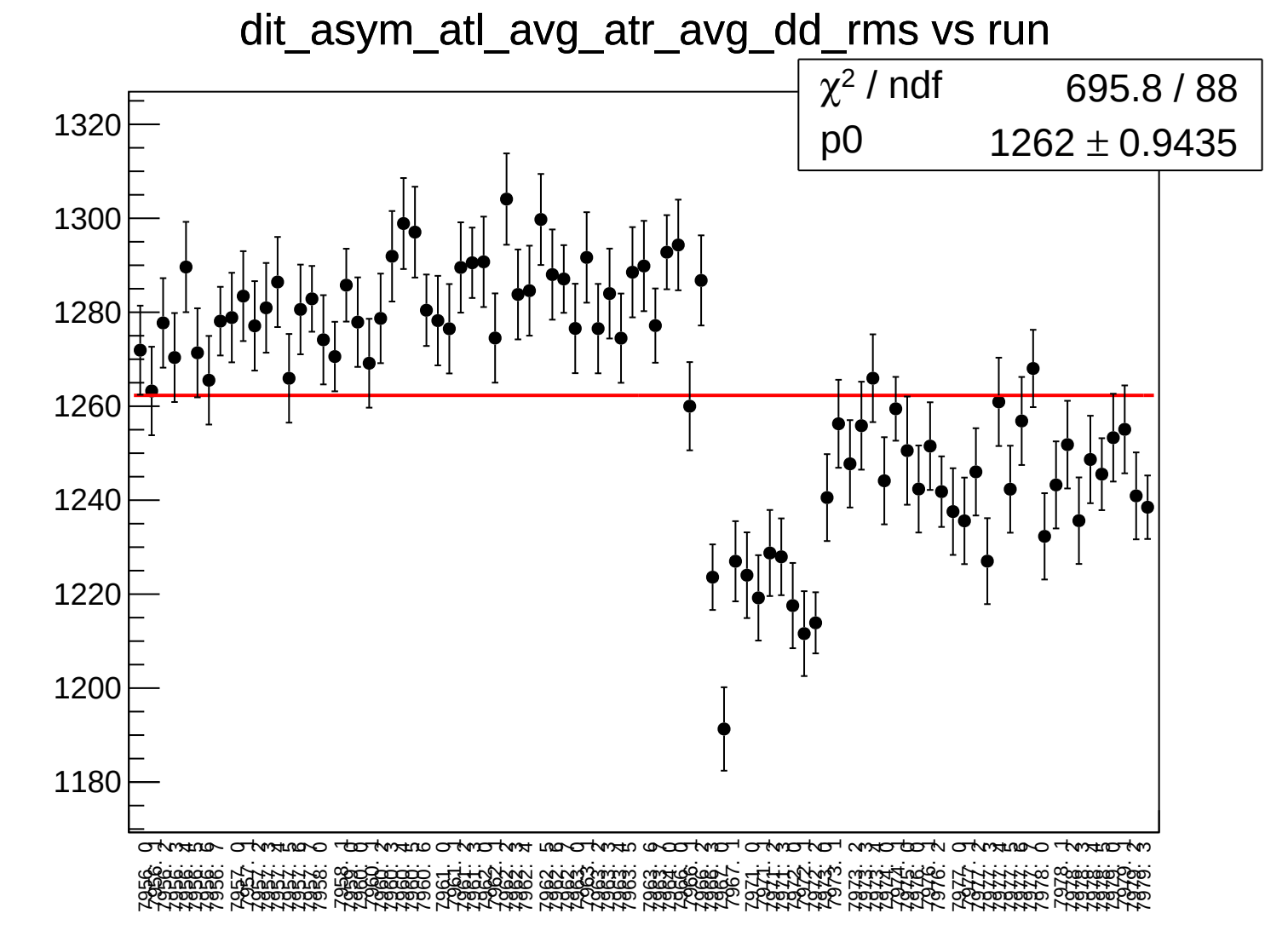

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.05 / 88
p0 −500.6 ± 1610
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −361.8
Std Dev 0
3
2
1
0
−1
−2

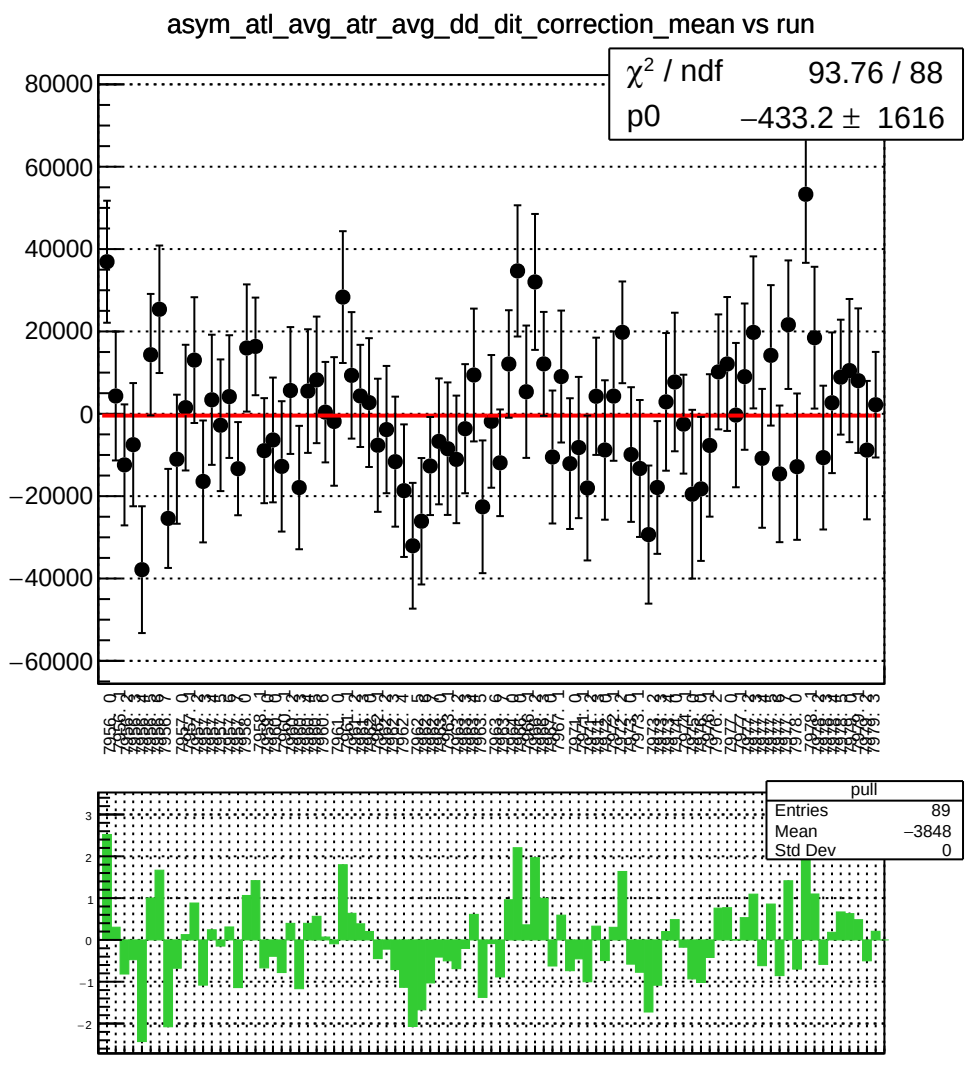

pull1D
Entries 89
Mean −0.006814
Std Dev 1.022
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

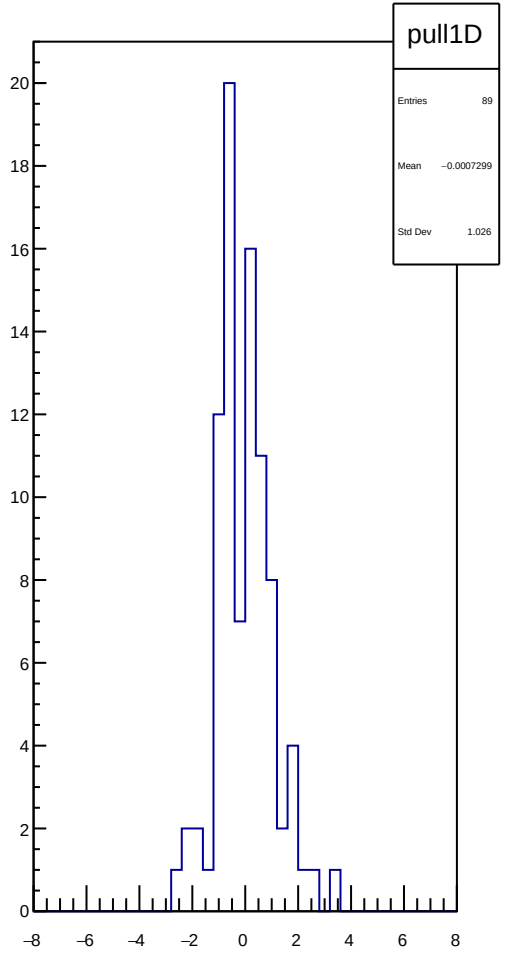

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3876 / 88
p0 1522 ± 1.138
1750
1700
1650
1600
1550
1500
1450
1400
1350

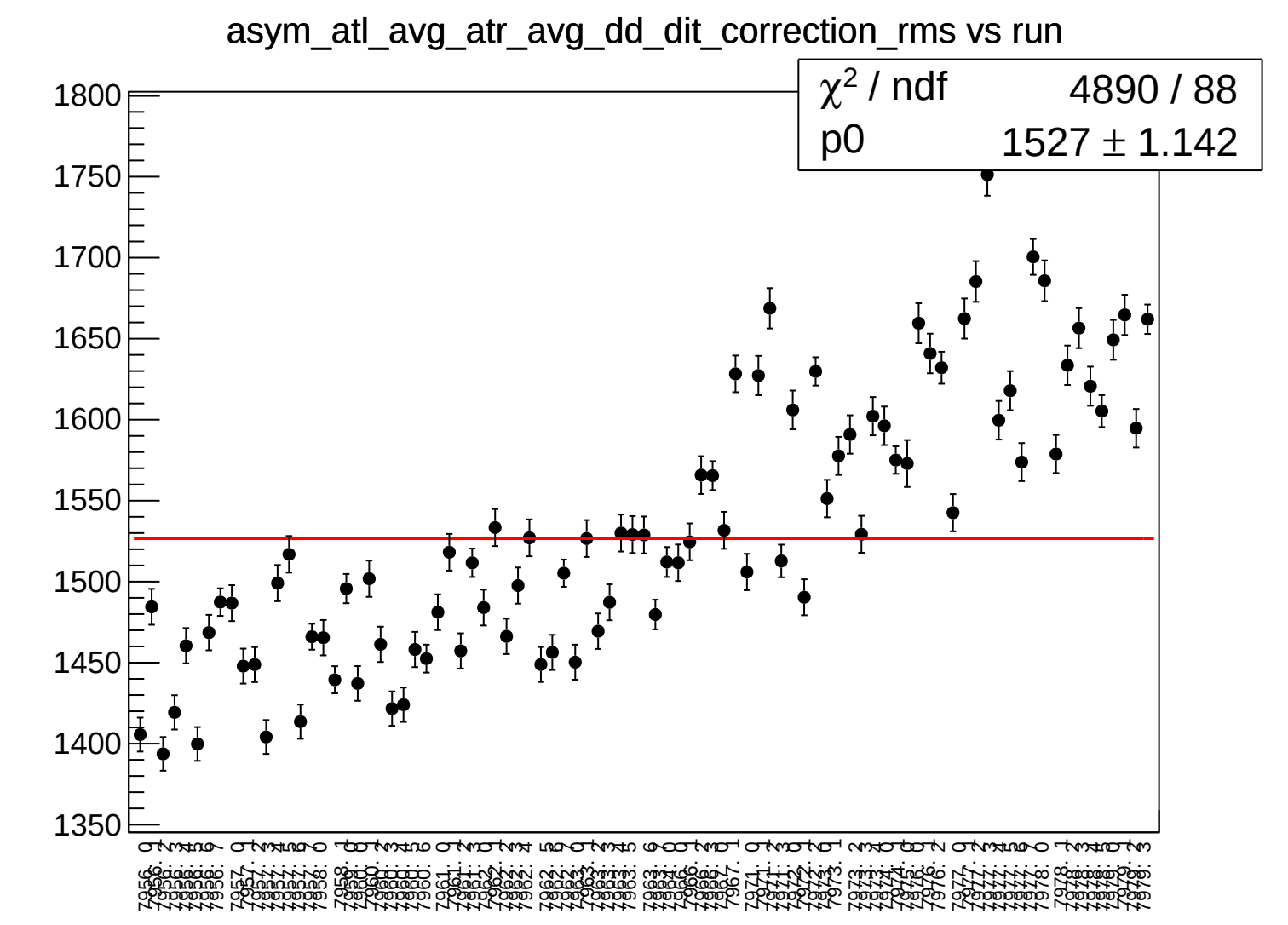

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 70.35 / 88
p0 −124.5 ± 1334
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −21.04
Std Dev 0
3
2
1
0
−1
−2

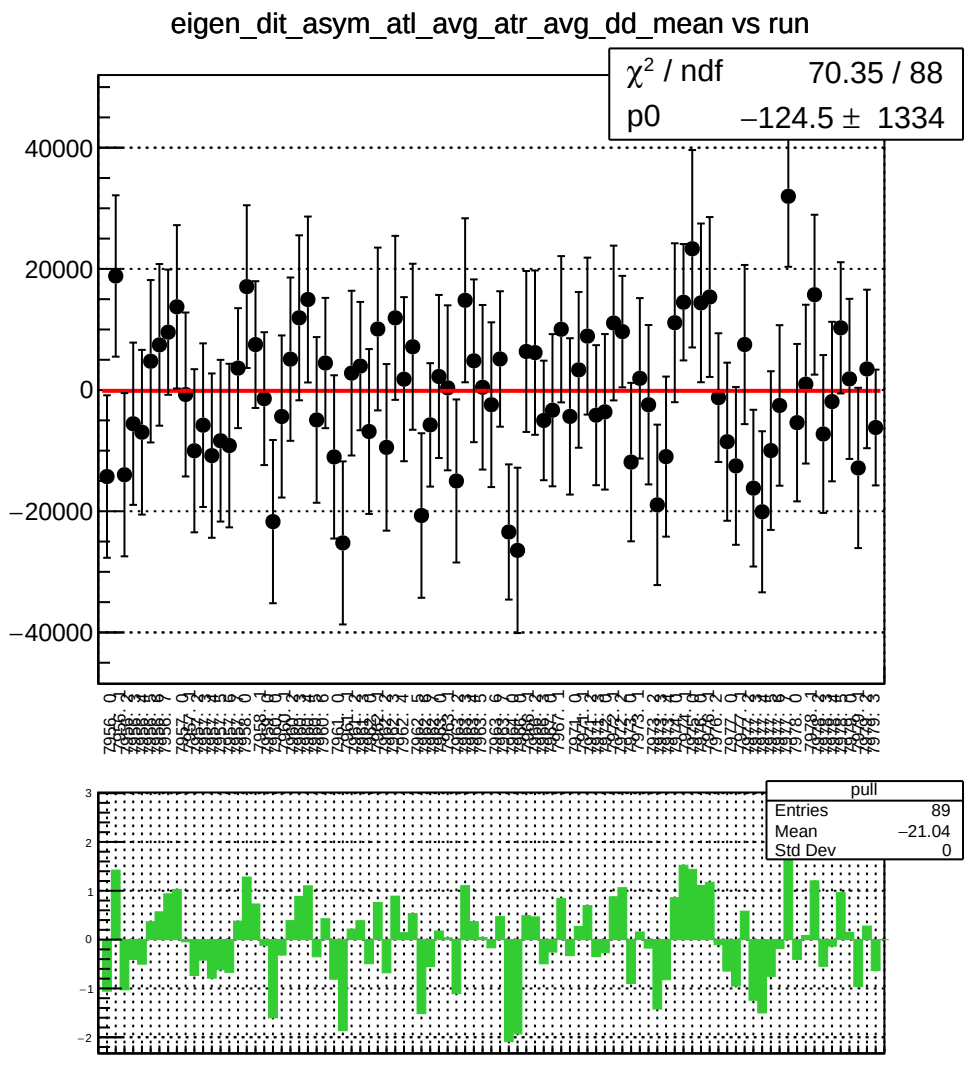

pull1D
Entries 89
Mean −0.01504
Std Dev 0.8889
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

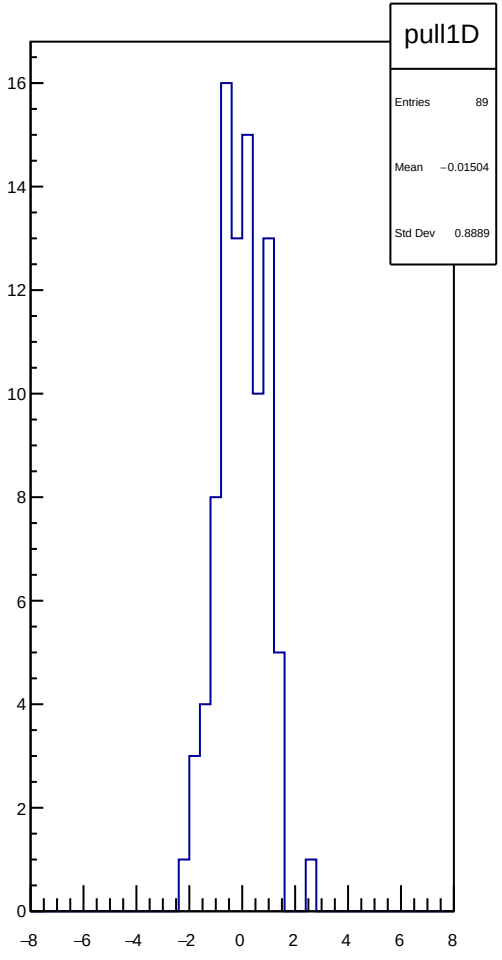

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 695.8 / 88
p0 1262 ± 0.9435
1320
1300
1280
1260
1240
1220
1200
1180

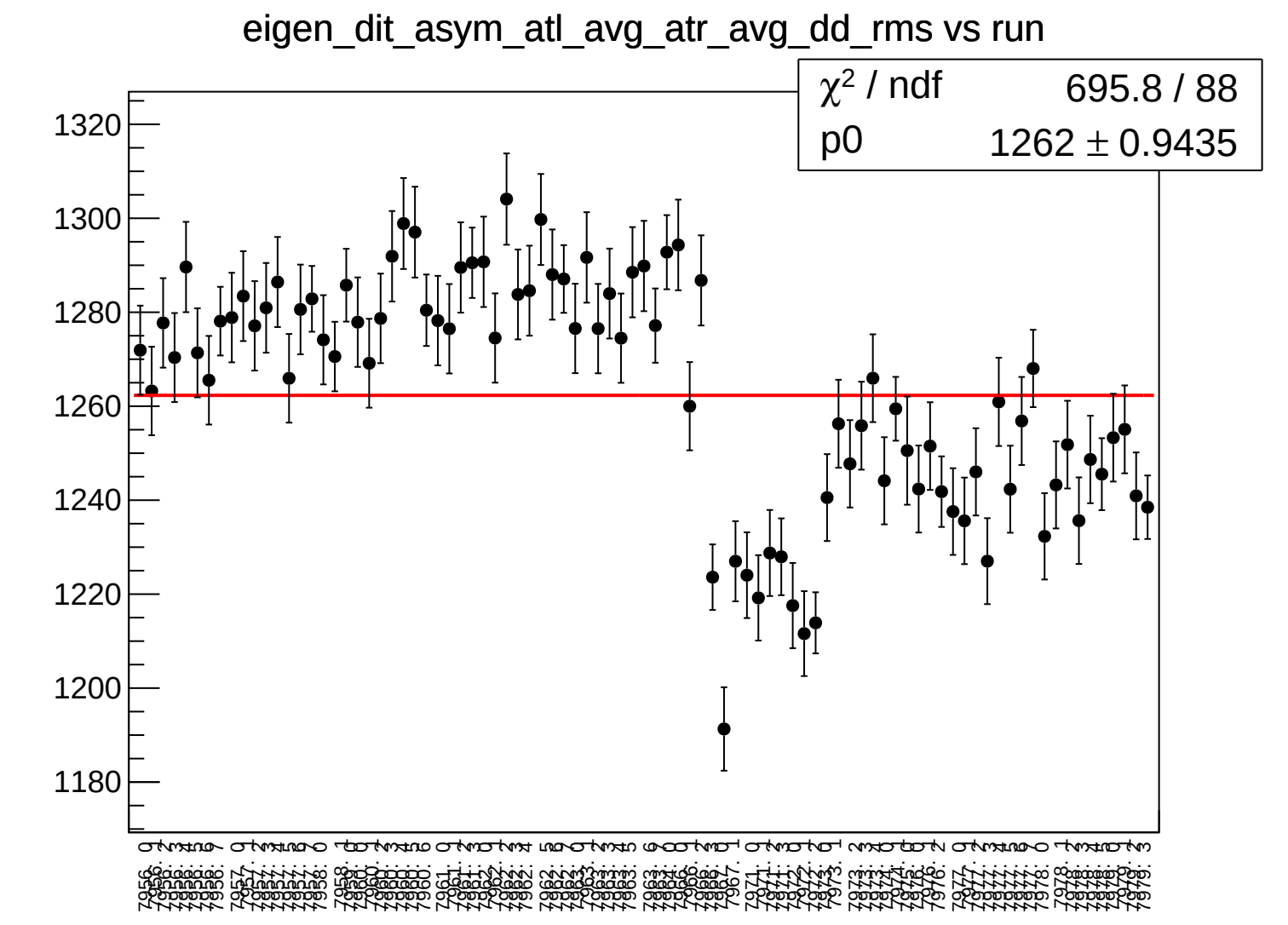

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 93.76 / 88
p0 −433.2 ± 1616
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −3848
Std Dev 0
3
2
1
0
−1
−2

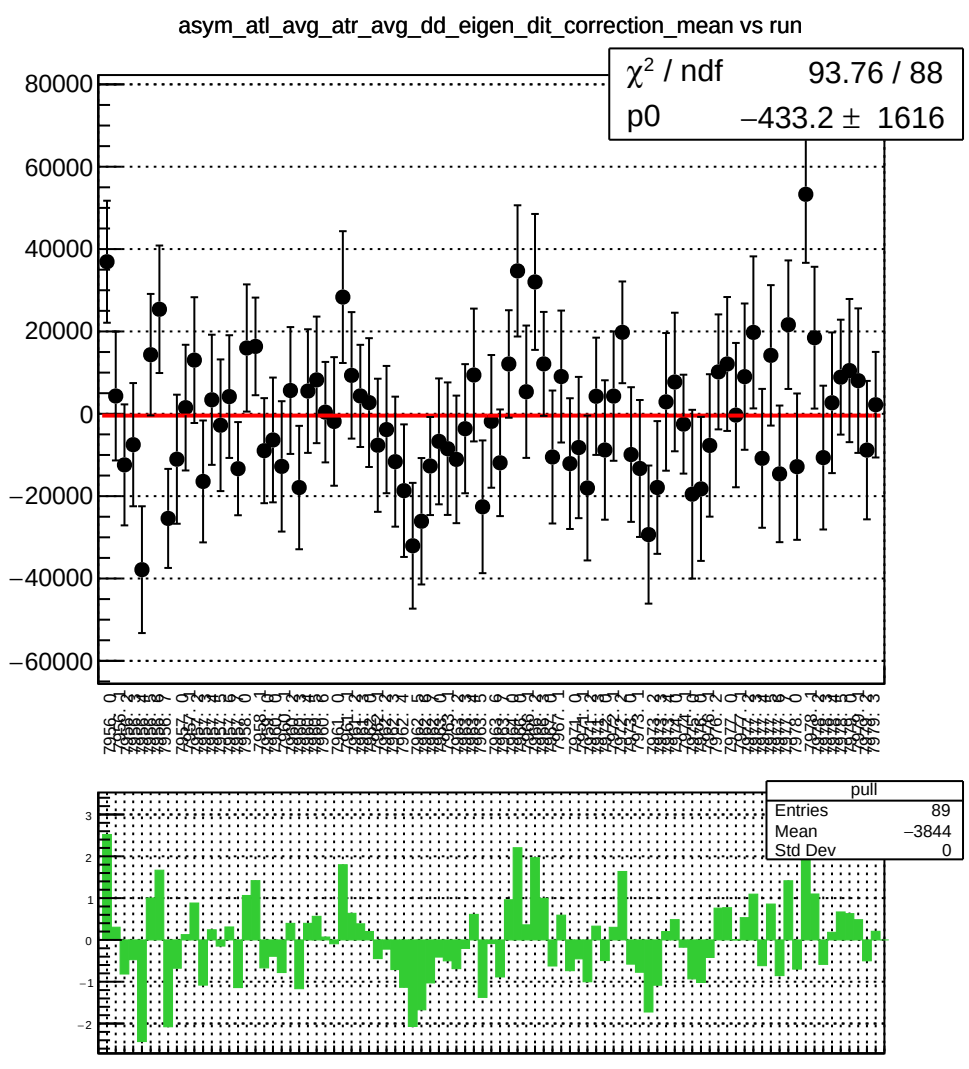

pull1D
Entries 89
Mean −0.0007299
Std Dev 1.026
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

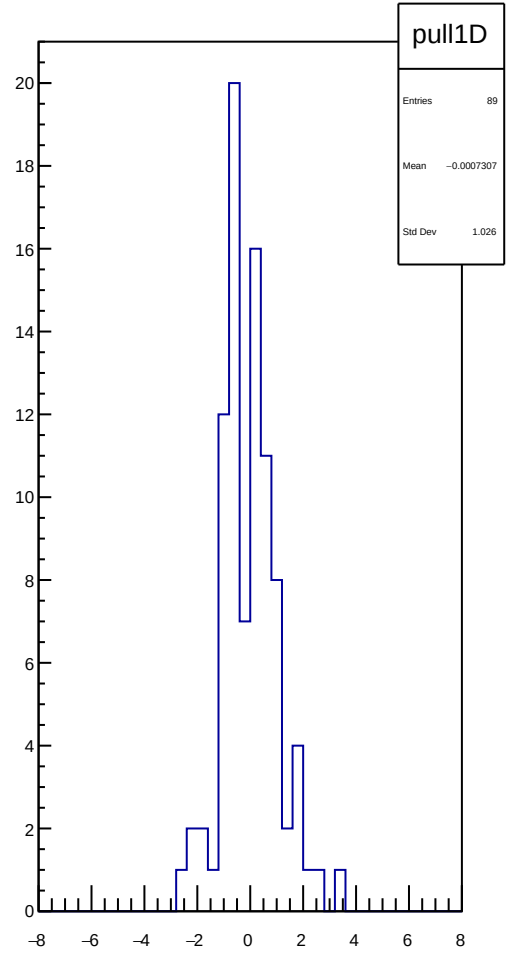

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 4890 / 88
p0 1527 ± 1.142
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

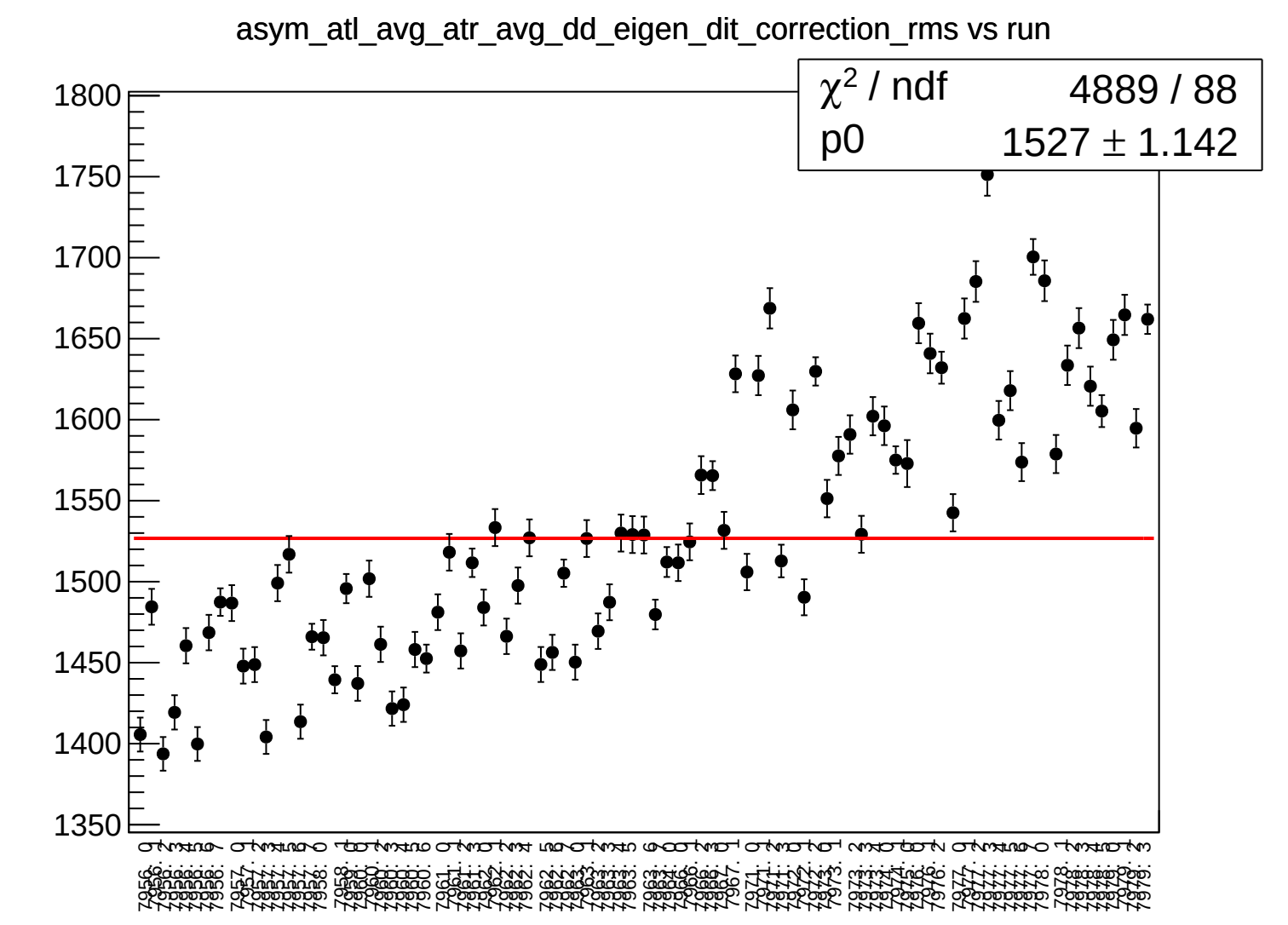

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 70.35 / 88
p0 −124.5 ± 1334
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −21.04
Std Dev 0
3
2
1
0
−1
−2

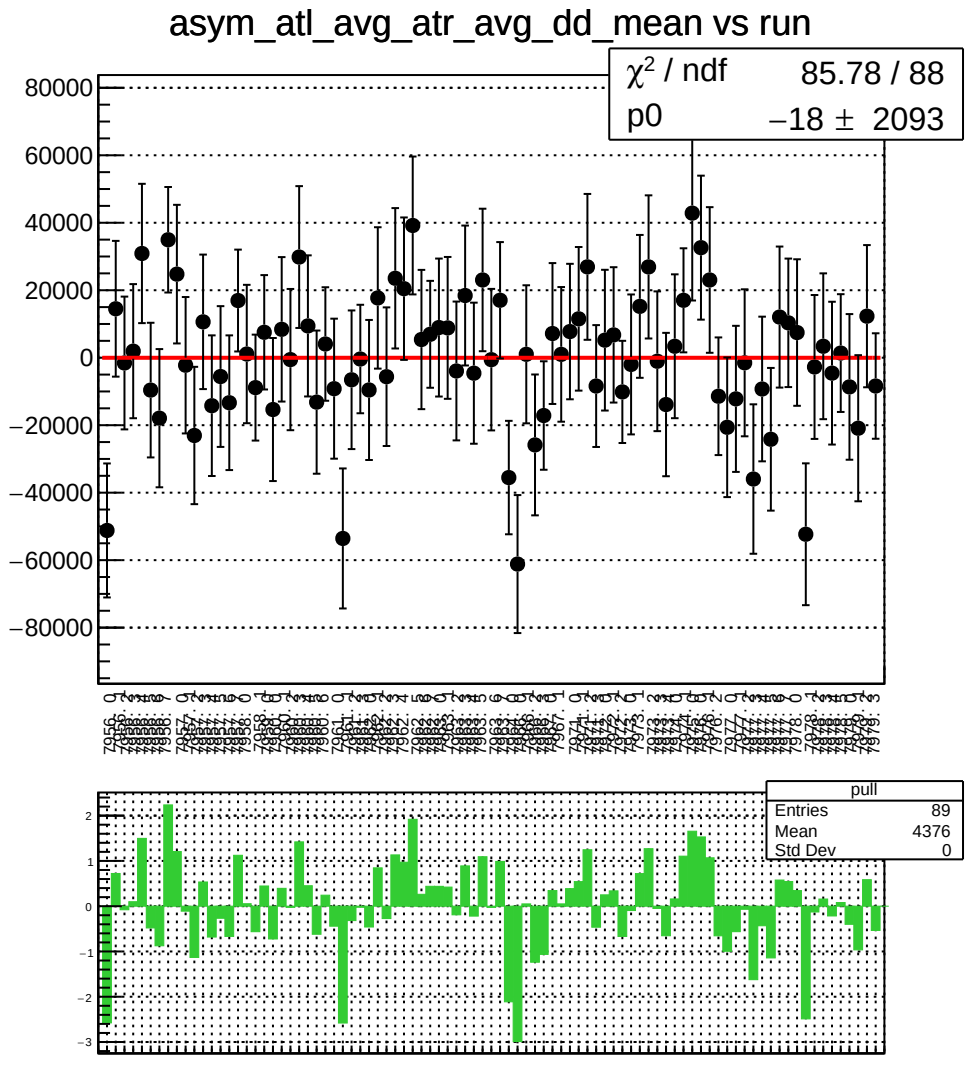

pull1D
Entries 89
Mean −0.01504
Std Dev 0.8889
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

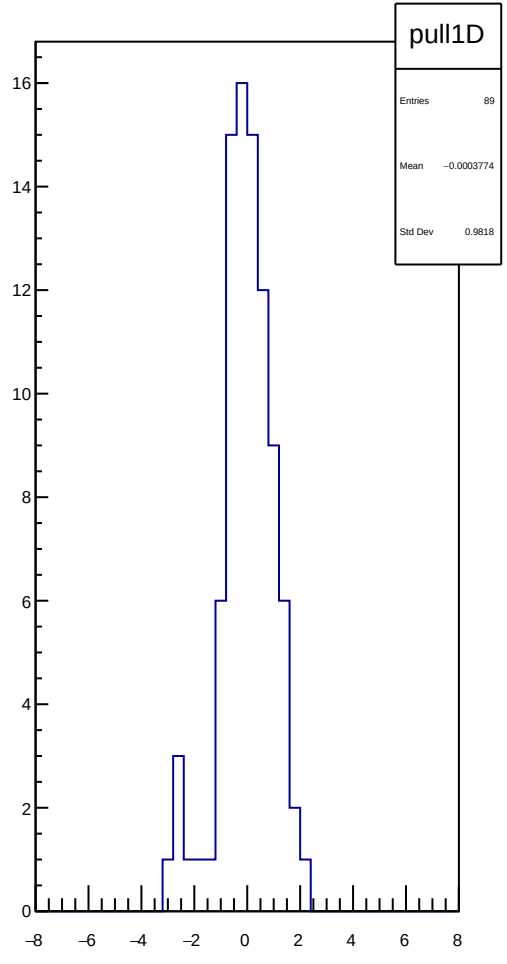

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 695.8 / 88
p0 1262 ± 0.9435
1320
1300
1280
1260
1240
1220
1200
1180

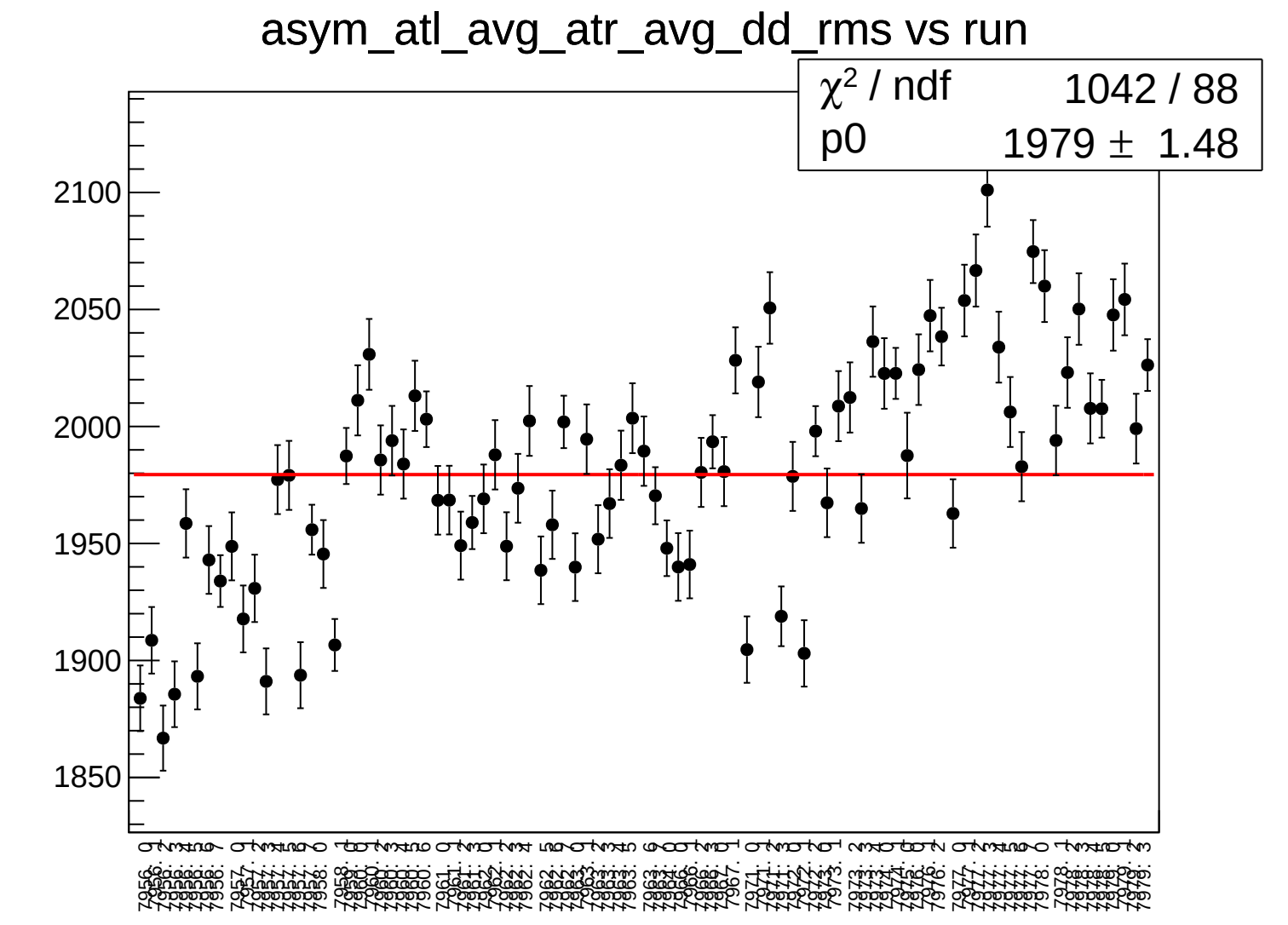

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.76 / 88
p0 −433.2 ± 1616
pull
Entries 89
Mean −3844
Std Dev 0

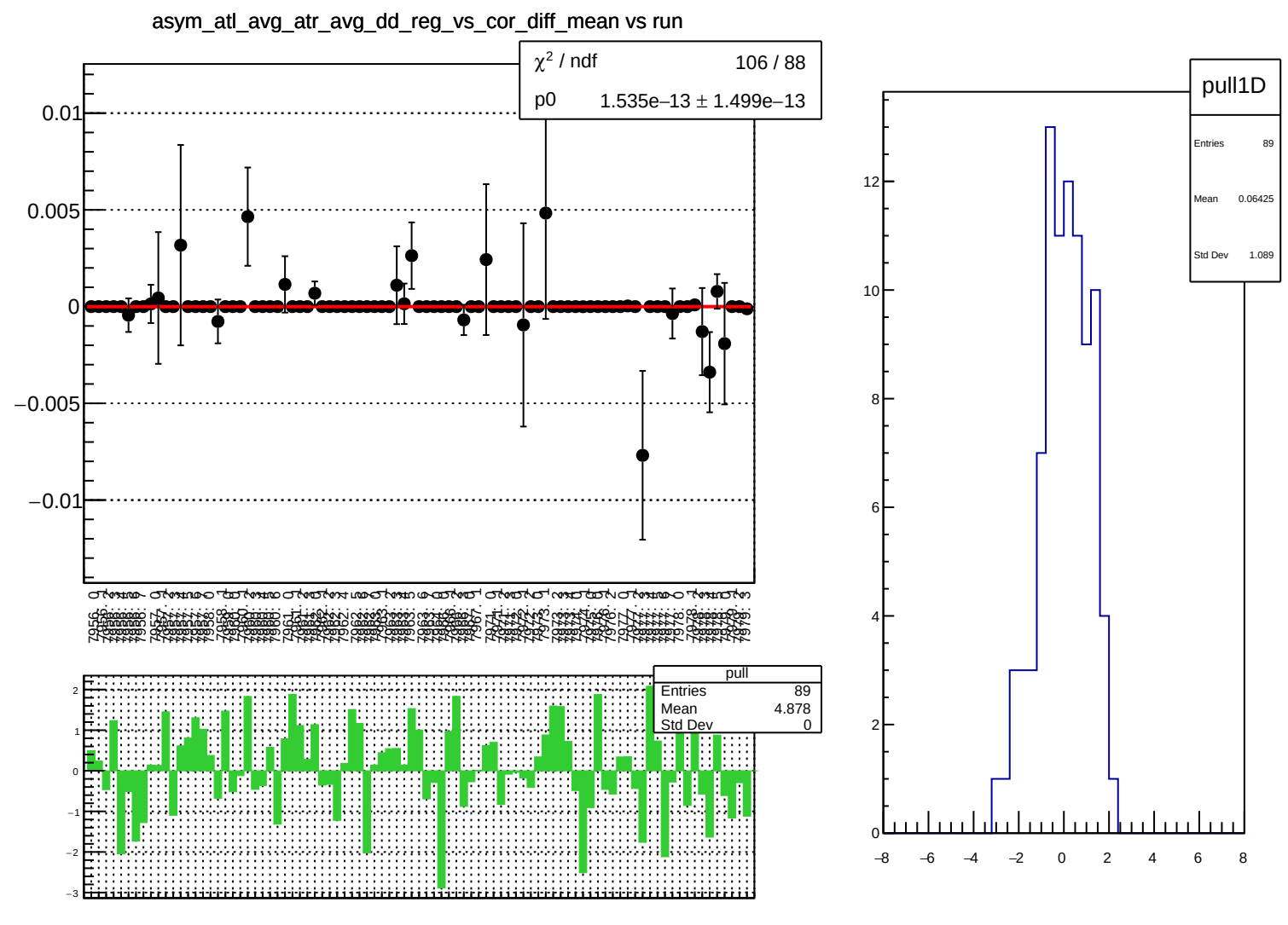

pull1D
Entries 89
Mean −0.0007307
Std Dev 1.026

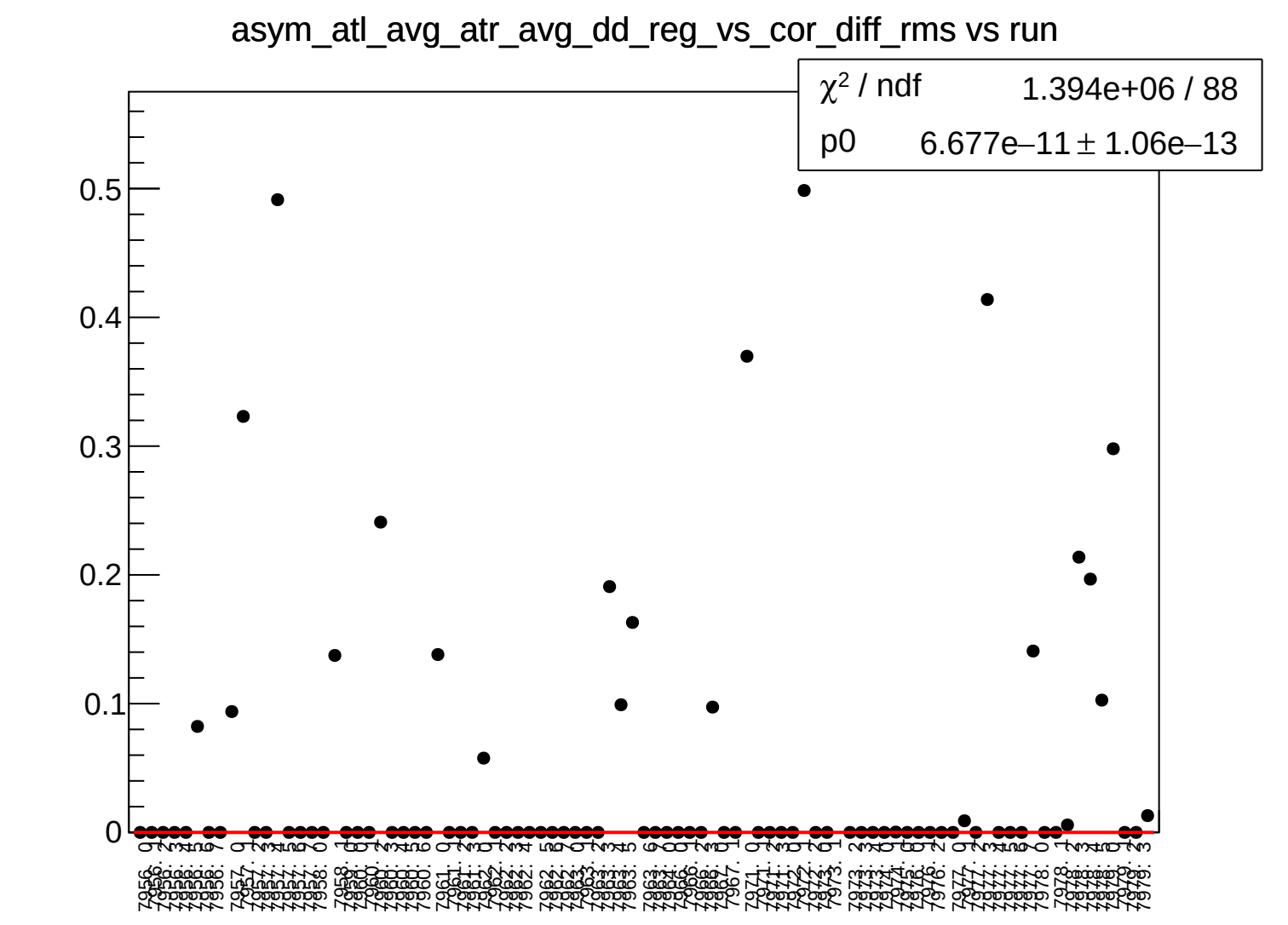

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4889 / 88
p0 1527 ± 1.142
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

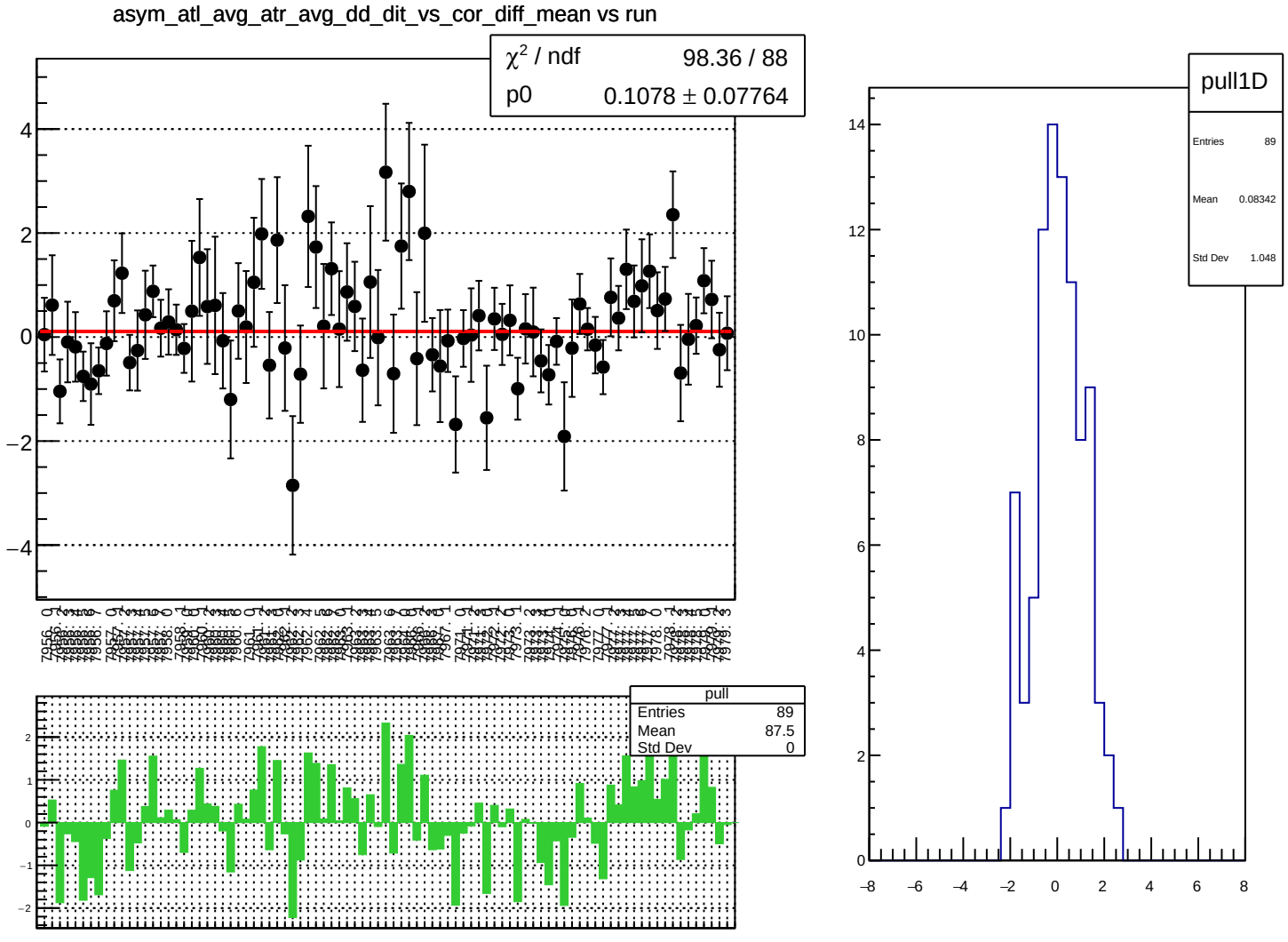

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 85.78 / 88
p0 −18 ± 2093
pull
Entries 89
Mean 4376
Std Dev 0

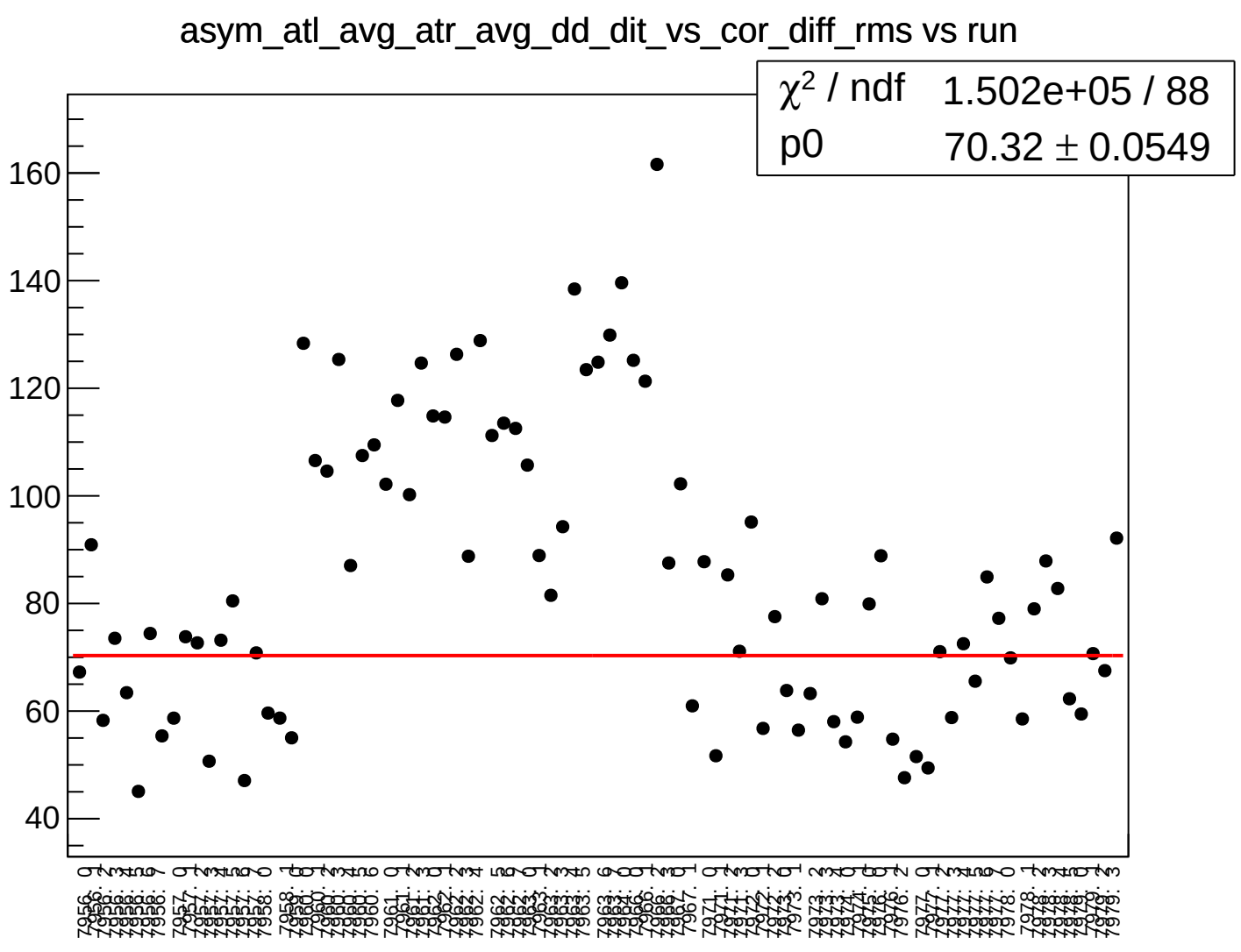

pull1D
Entries 89
Mean −0.0003774
Std Dev 0.9818

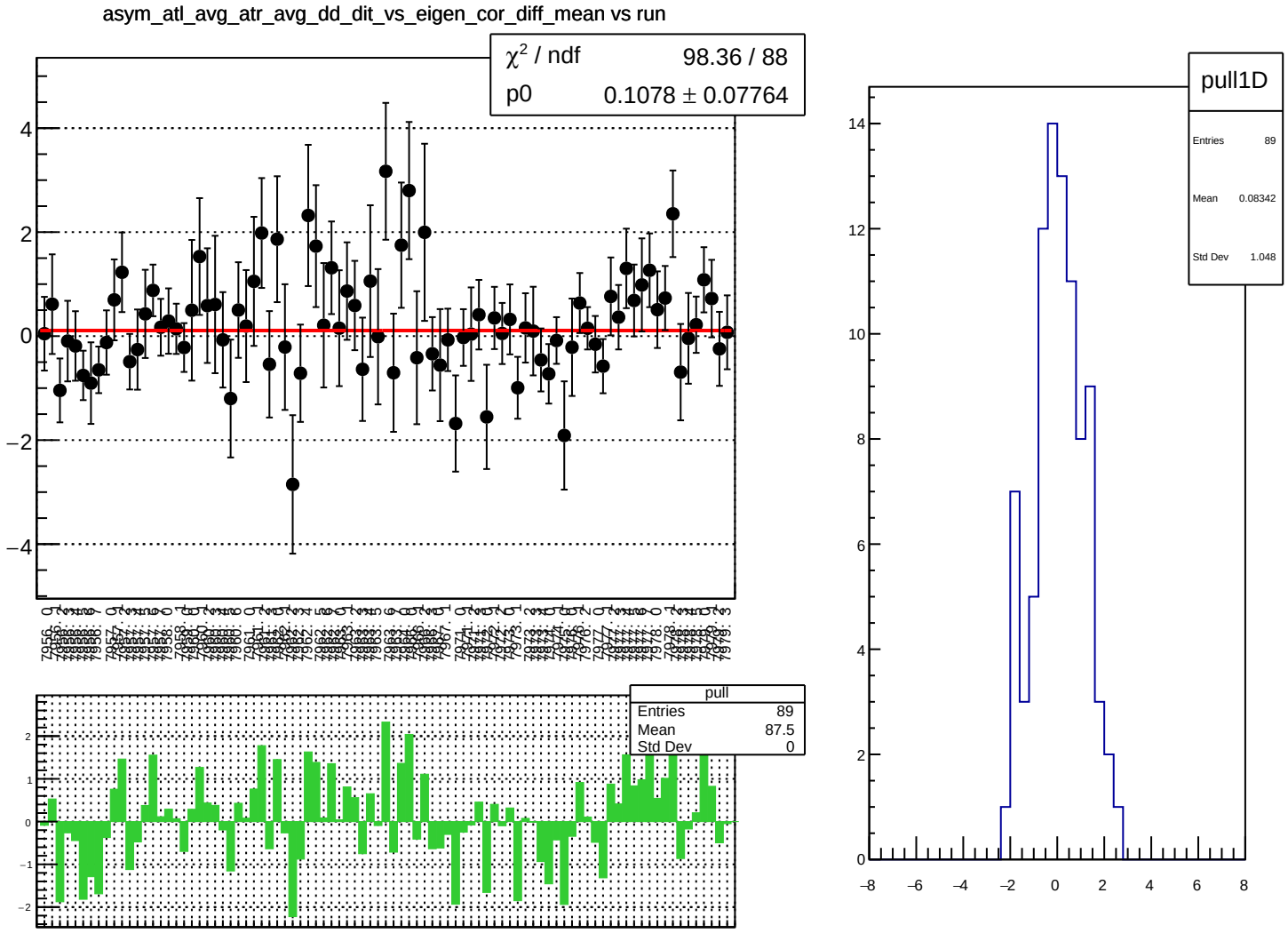

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1042 / 88
p0 1979 ± 1.48
2100
2050
2000
1950
1900
1850

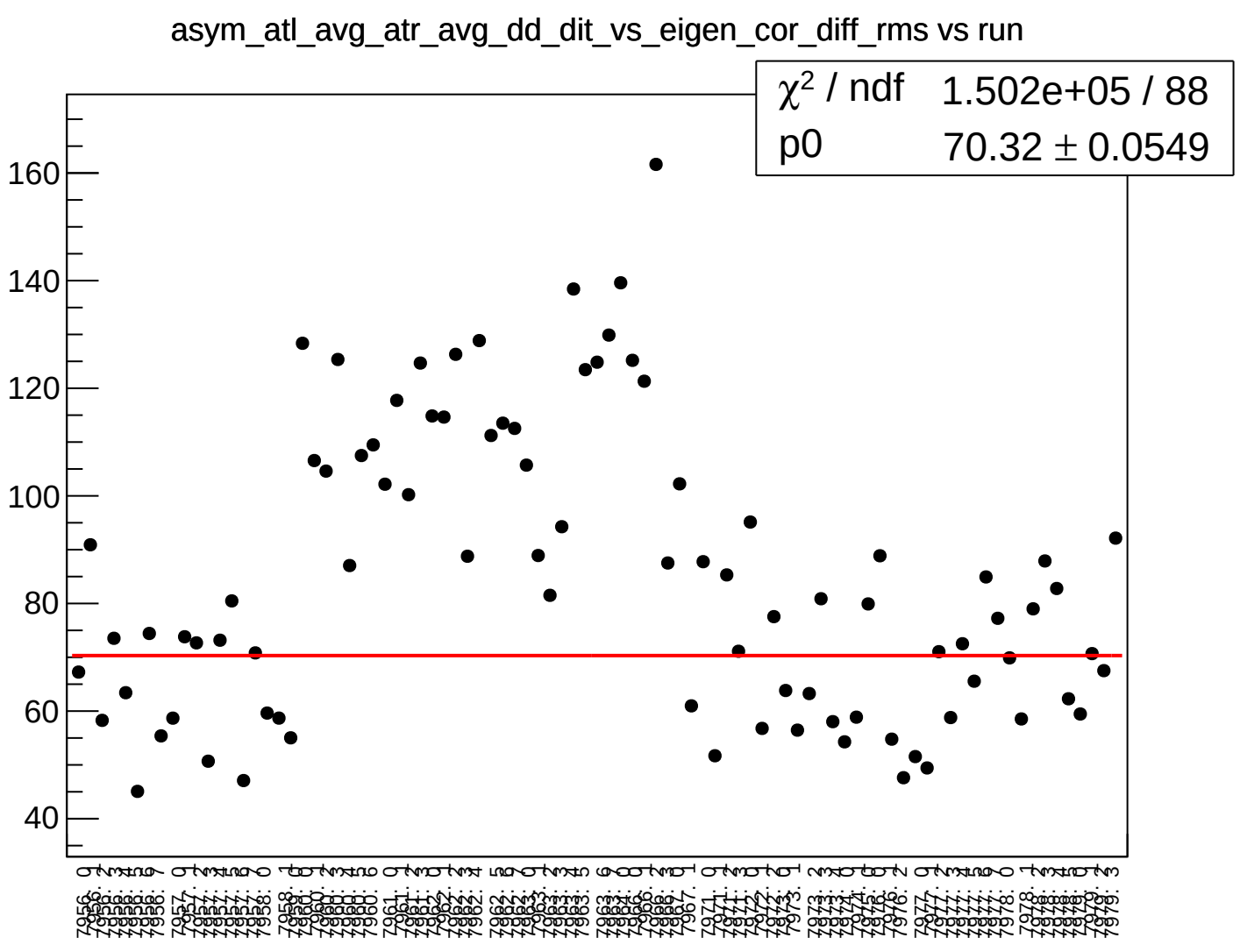

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 106 / 88
p0 1.535e−13 ± 1.499e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 4.878
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.06425
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

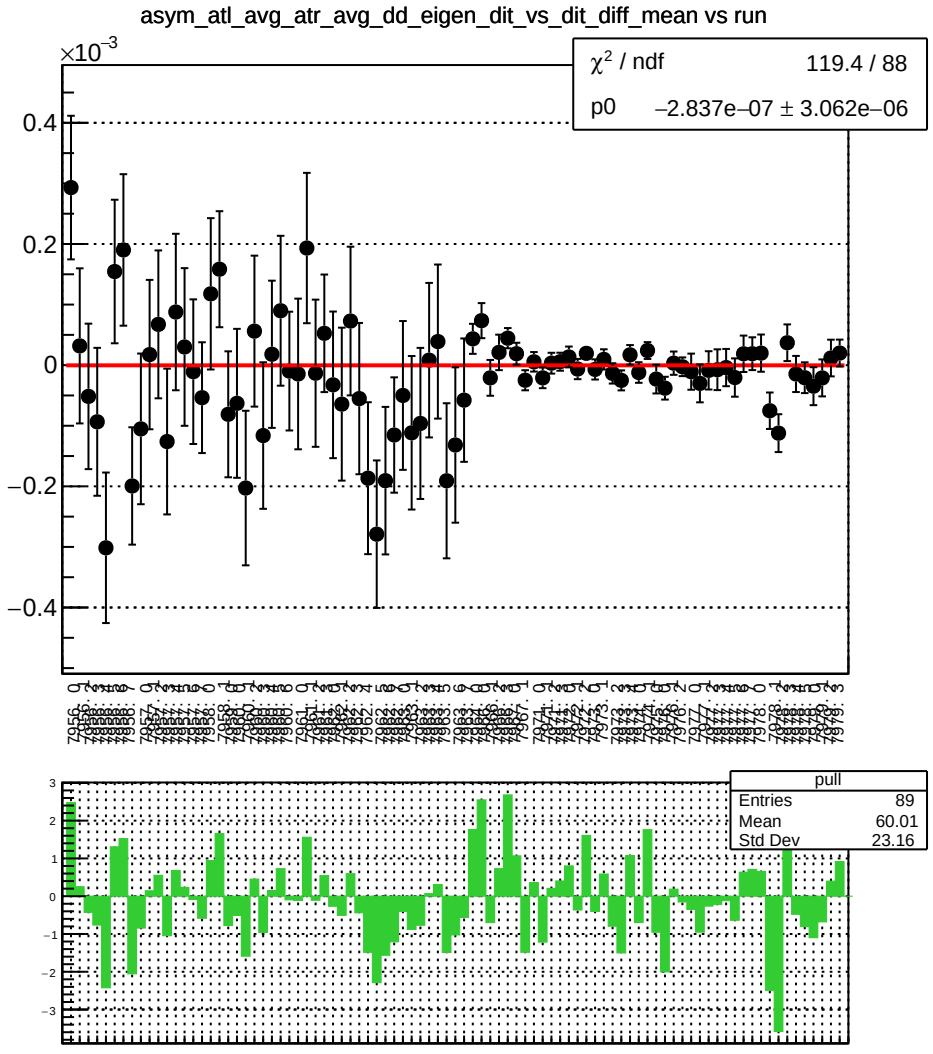

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.394e+06 / 88
p0 6.677e−11 ± 1.06e−13
0.5
0.4
0.3
0.2
0.1
0

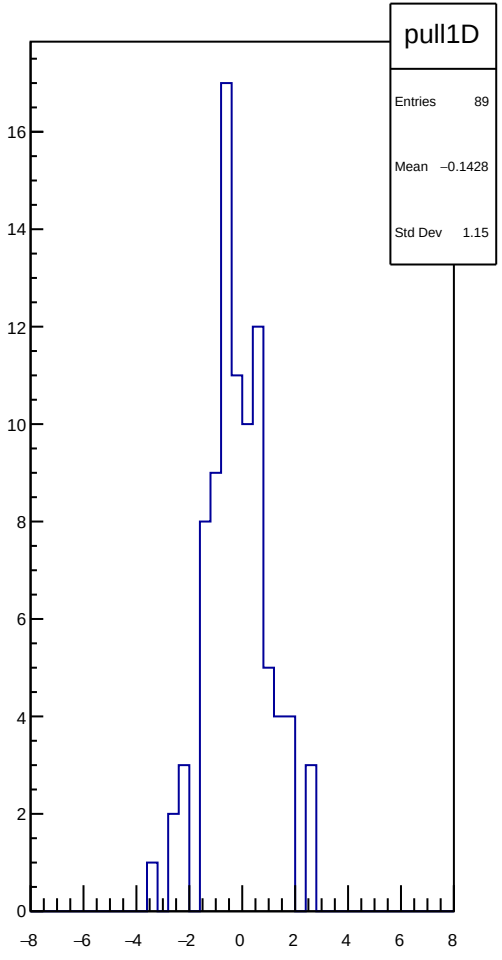

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.36 / 88
p0 0.1078 ± 0.07764
pull
Entries 89
Mean 87.5
Std Dev 0
pull1D
Entries 89
Mean 0.08342
Std Dev 1.048

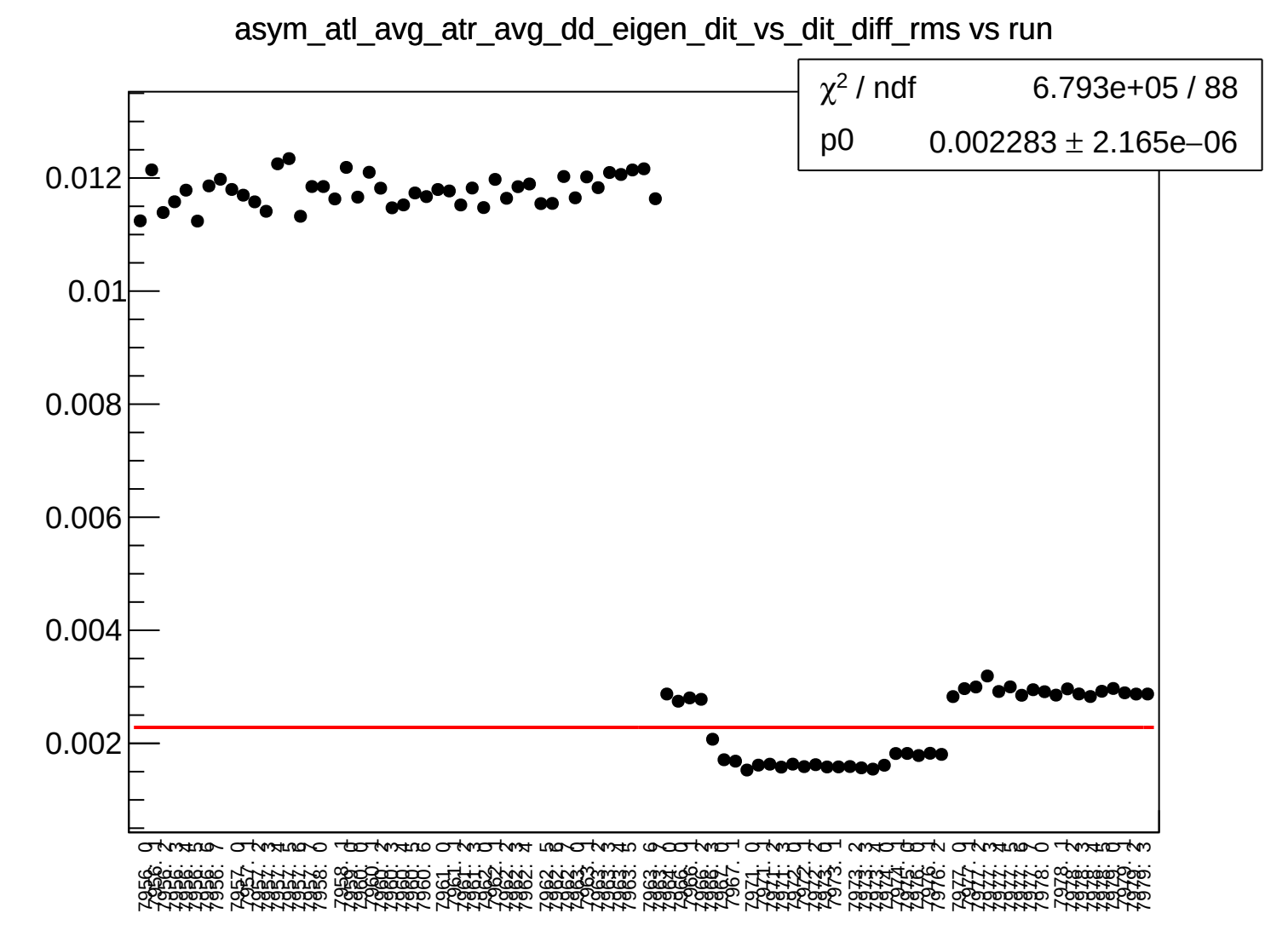

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.502e+05 / 88
p0 70.32 ± 0.0549
160
140
120
100
80
60
40

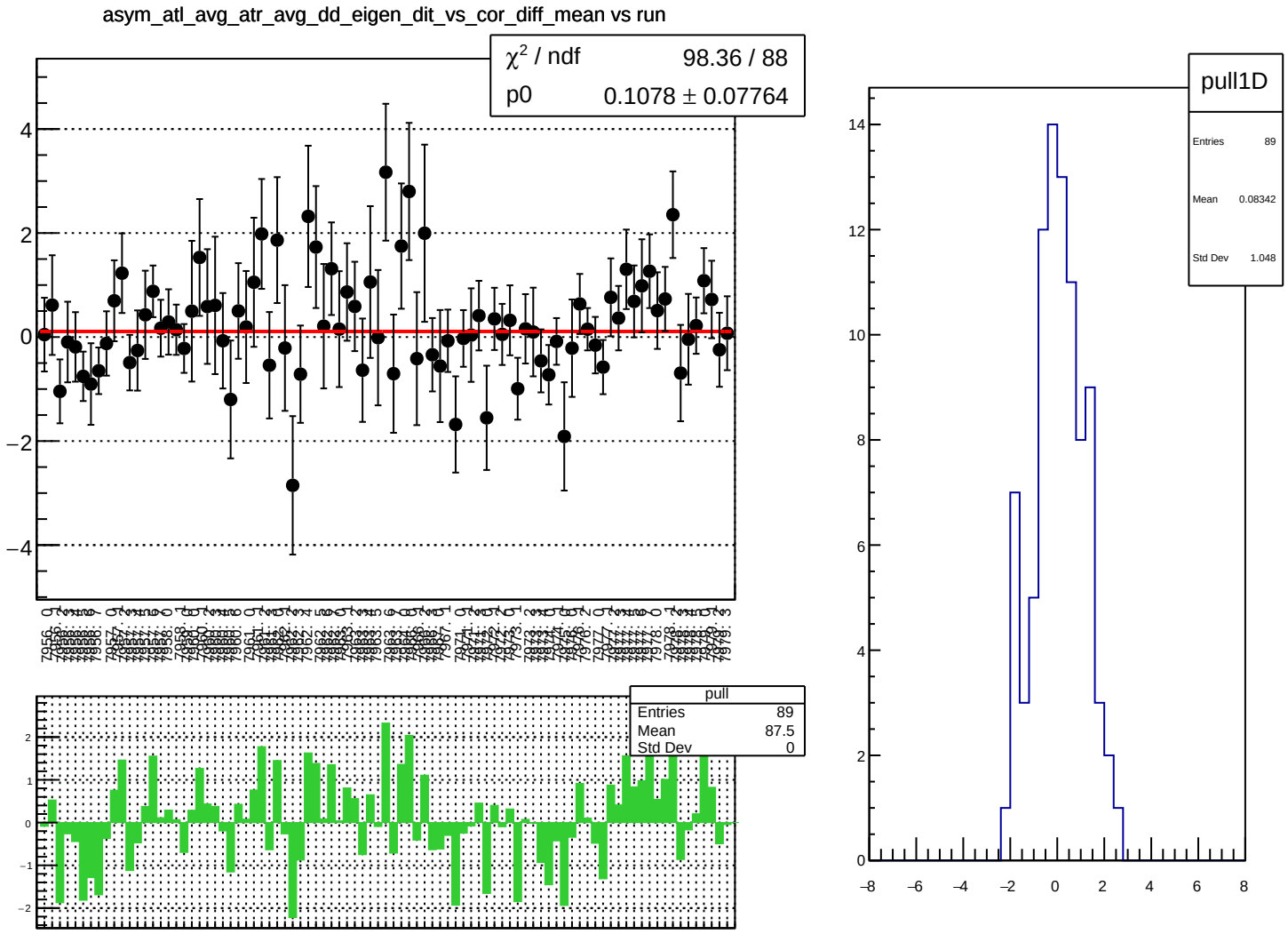

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.36 / 88
p0 0.1078 ± 0.07764
pull
Entries 89
Mean 87.5
Std Dev 0
pull1D
Entries 89
Mean 0.08342
Std Dev 1.048

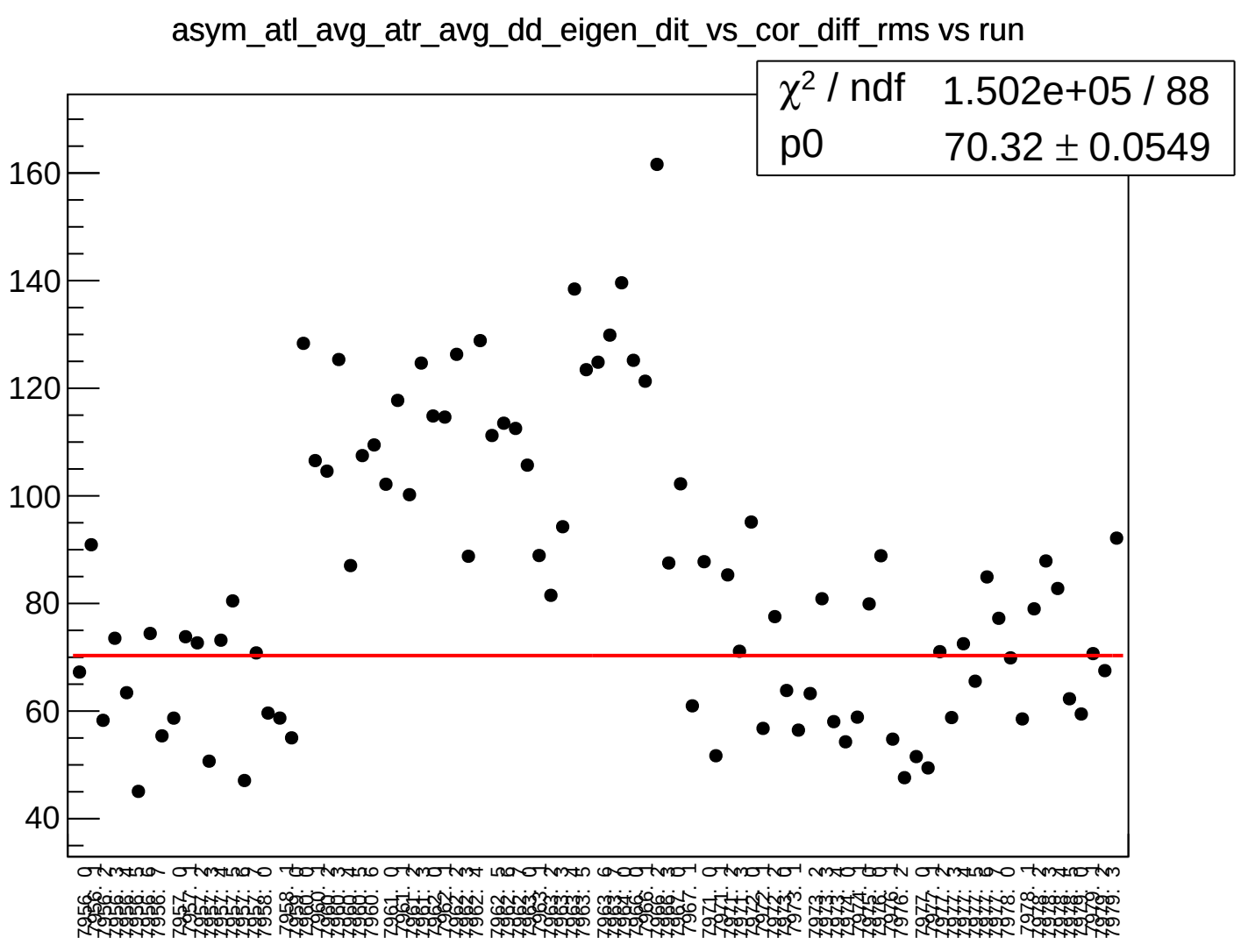

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.502e+05 / 88
p0 70.32 ± 0.0549
160
140
120
100
80
60
40

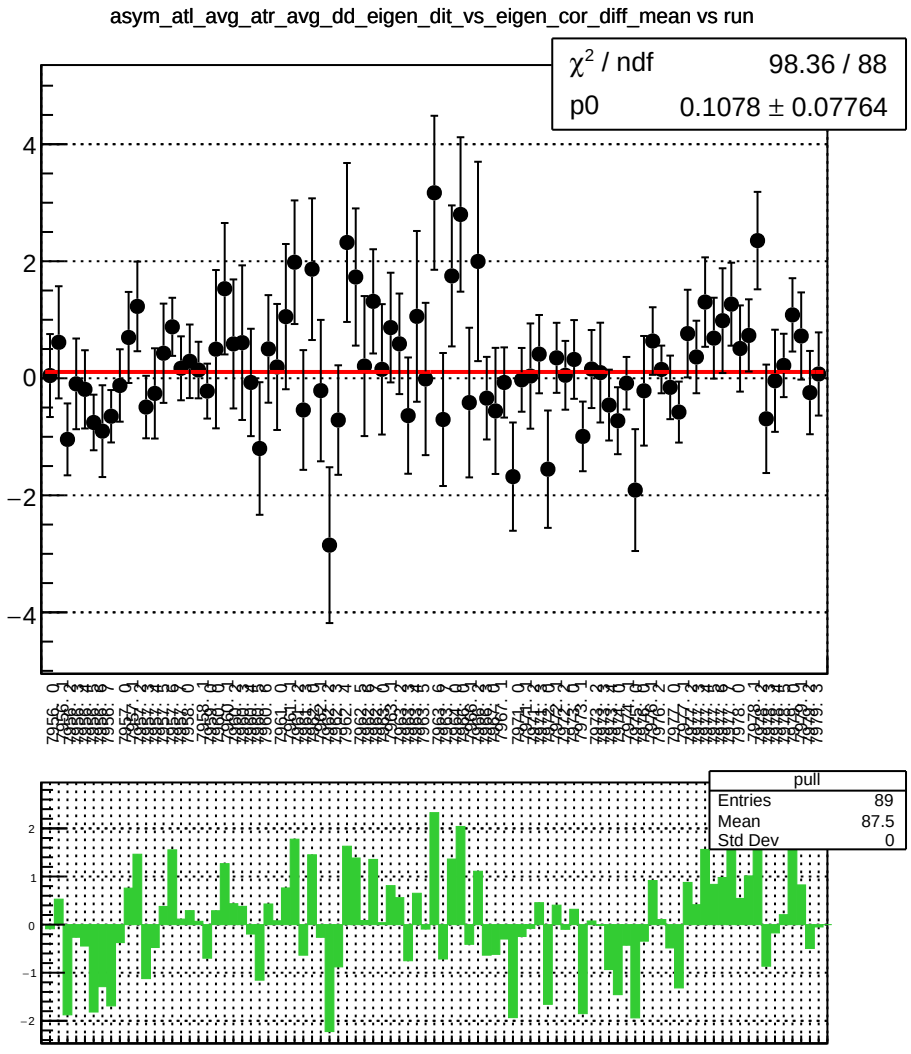

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 119.4 / 88
p0 −2.837e−07 ± 3.062e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 60.01
Std Dev 23.16
3
2
1
0
−1
−2
−3

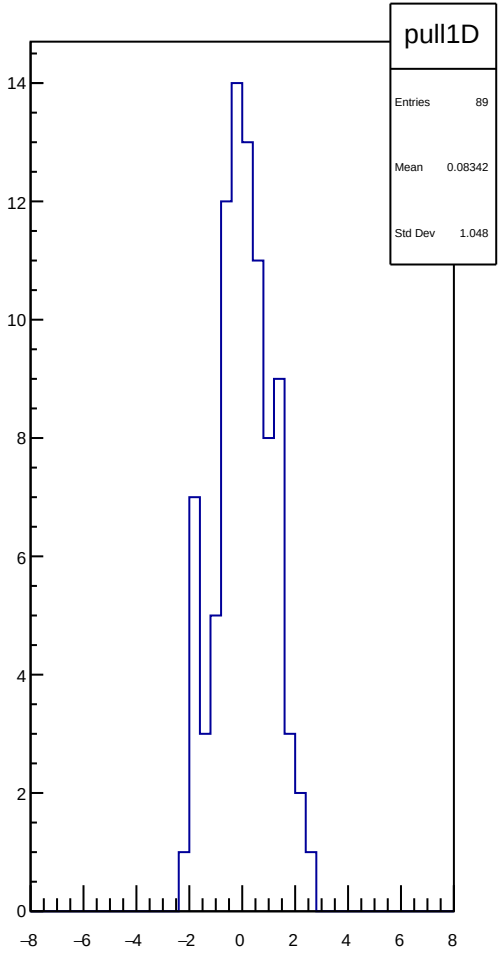

pull1D
Entries 89
Mean −0.1428
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

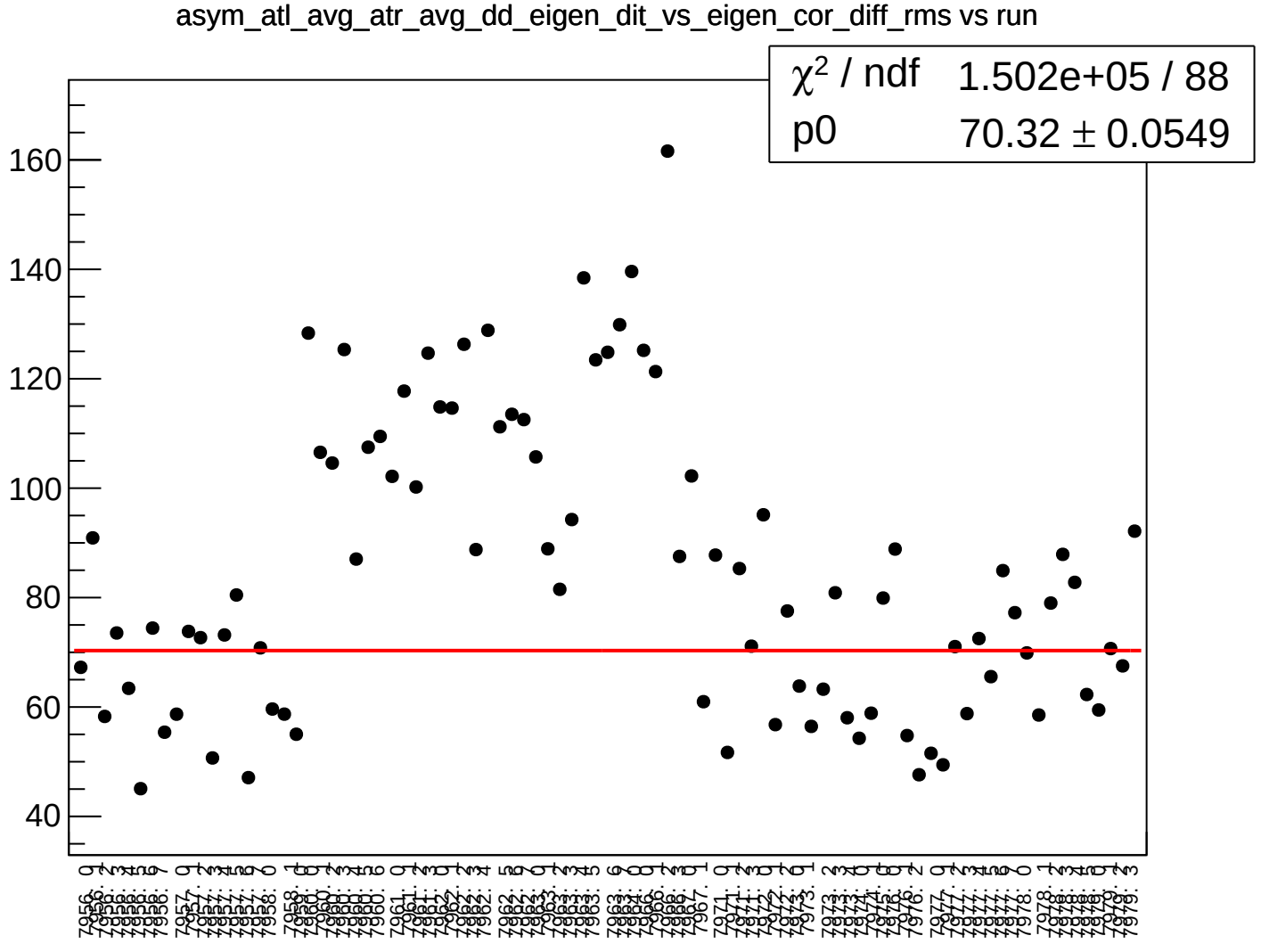

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.793e+05 / 88
p0 0.002283 ± 2.165e−06
0.012
0.01
0.008
0.006
0.004
0.002

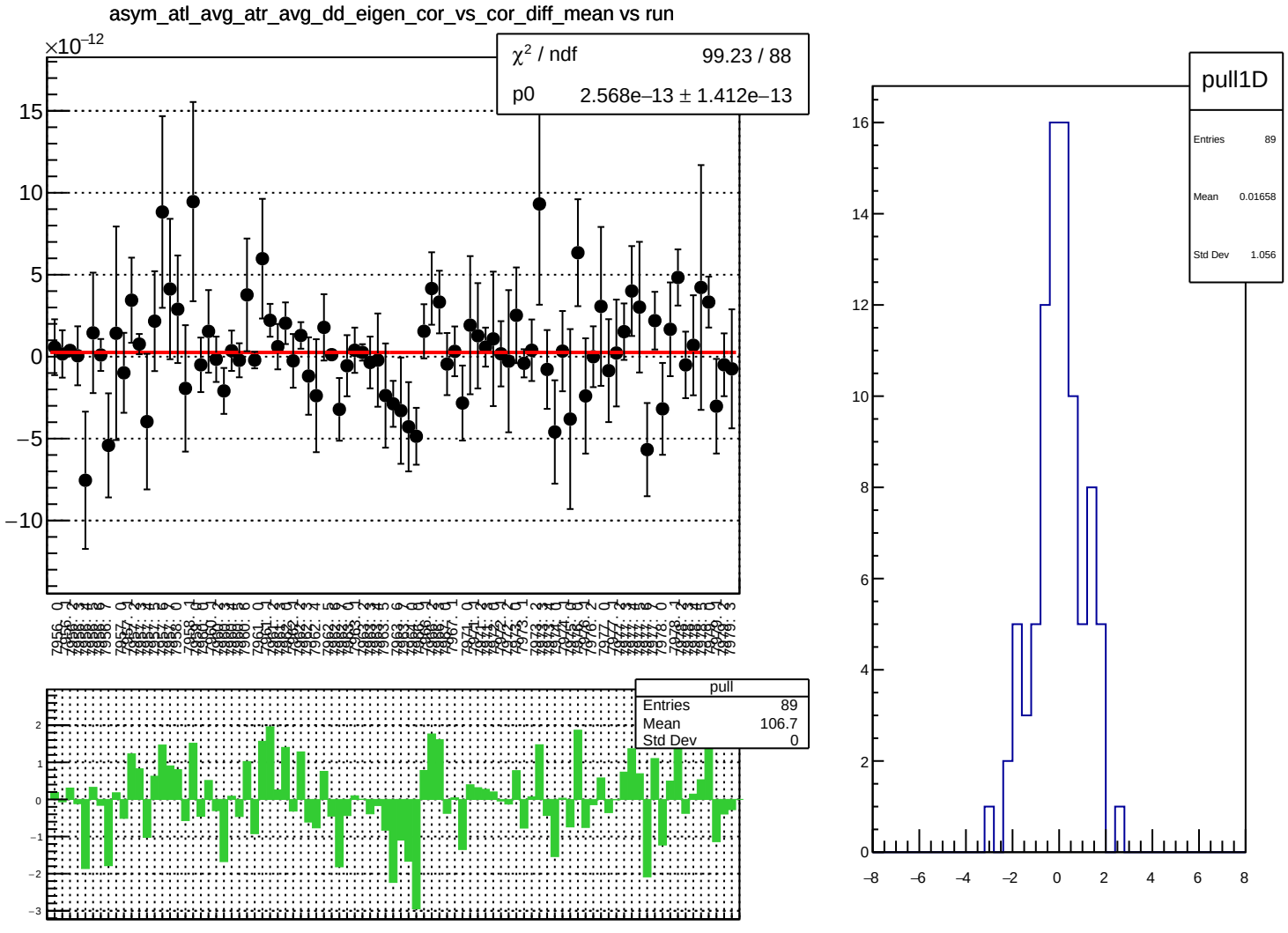

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.36 / 88
p0 0.1078 ± 0.07764
pull
Entries 89
Mean 87.5
Std Dev 0
pull1D
Entries 89
Mean 0.08342
Std Dev 1.048

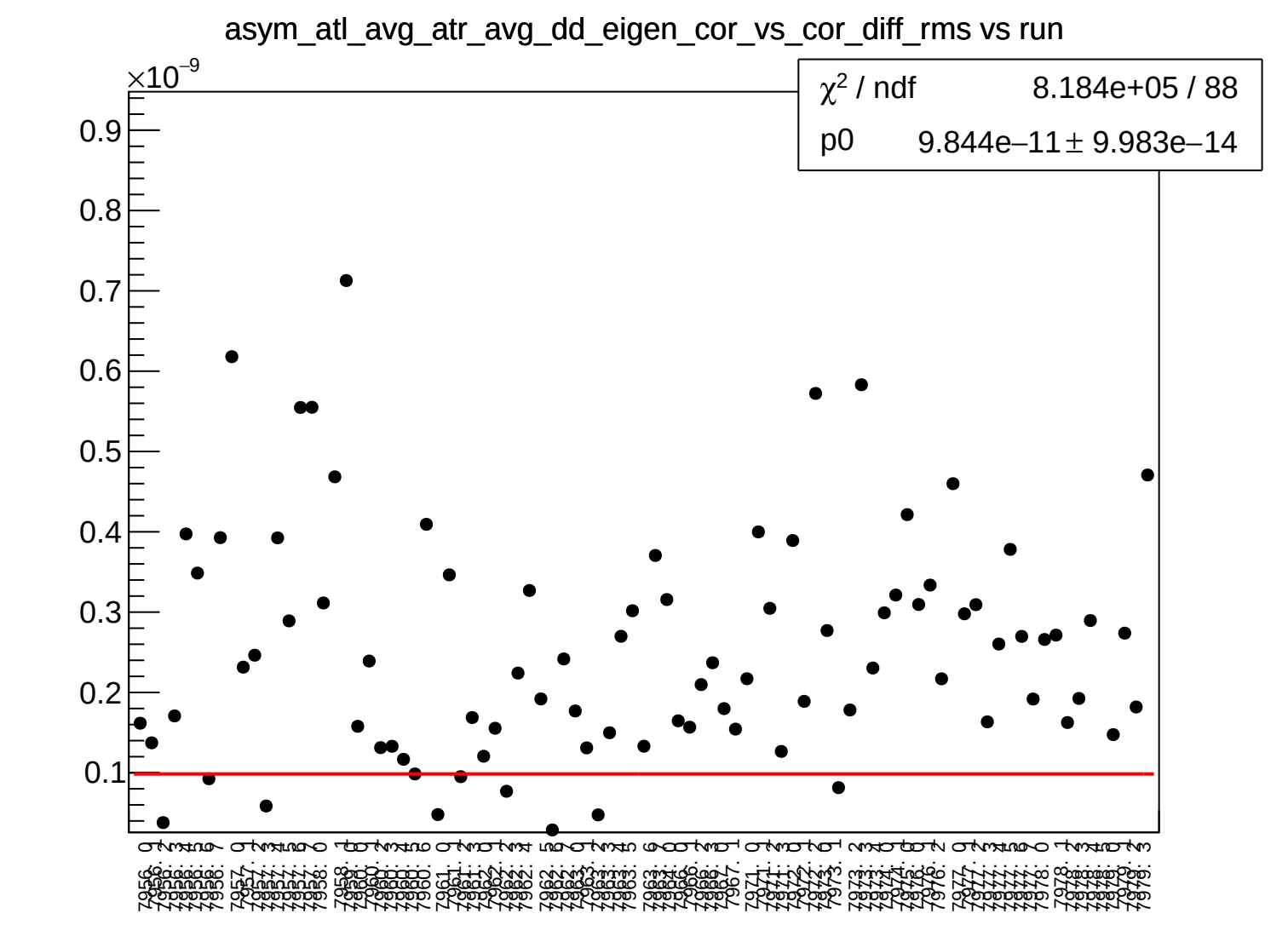

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.502e+05 / 88
p0 70.32 ± 0.0549
160
140
120
100
80
60
40

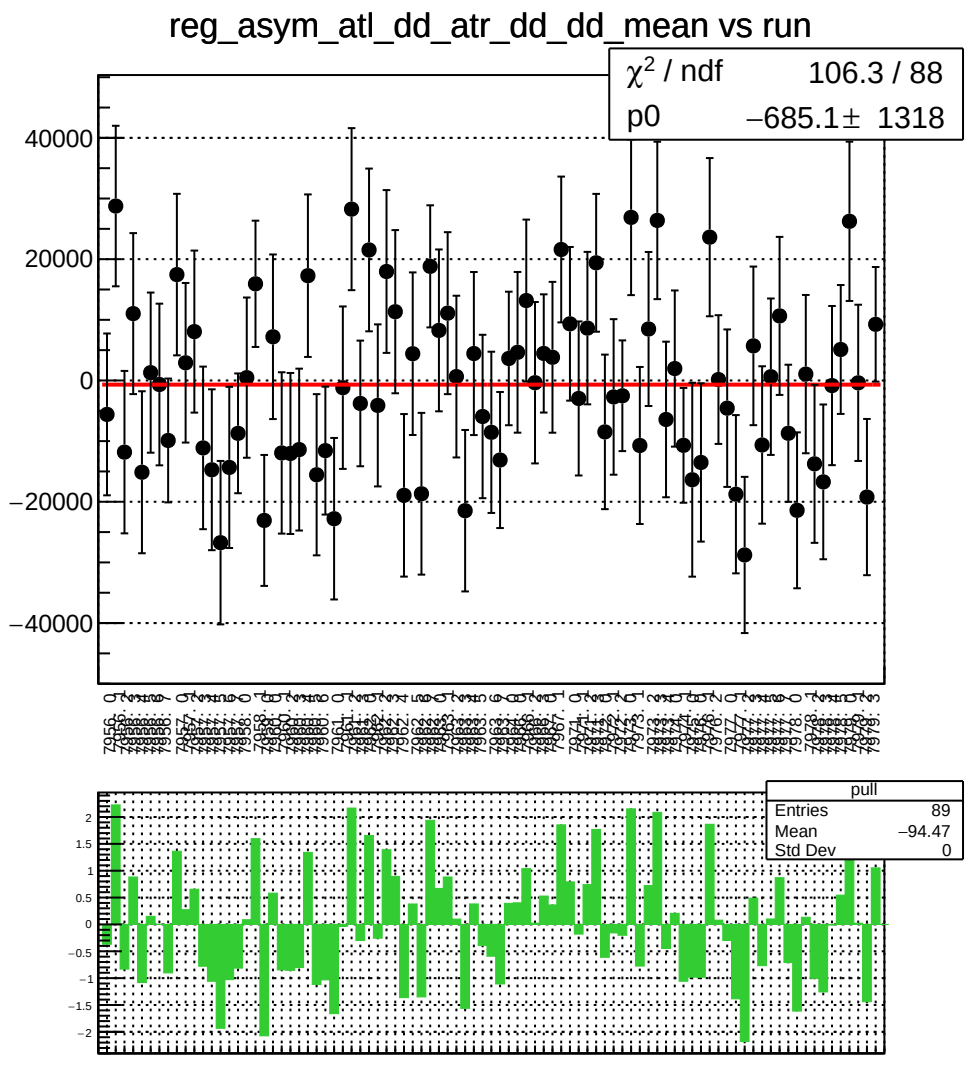

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.36 / 88
p0 0.1078 ± 0.07764
pull
Entries 89
Mean 87.5
Std Dev 0

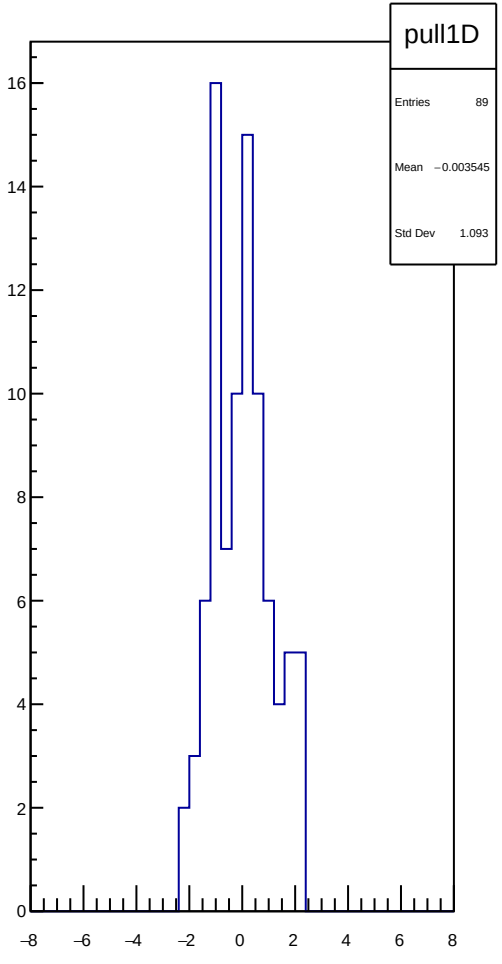

pull1D
Entries 89
Mean 0.08342
Std Dev 1.048

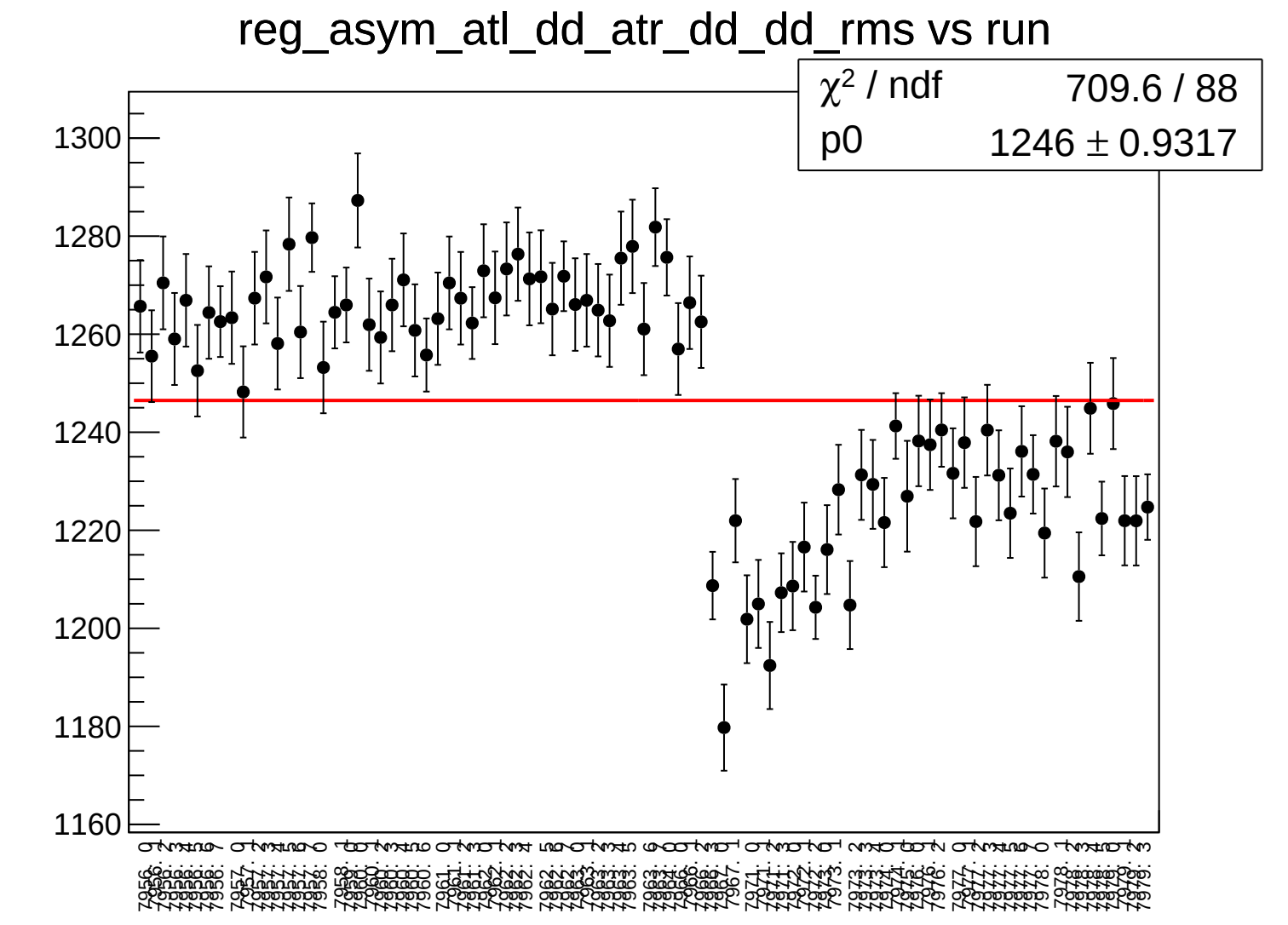

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.502e+05 / 88
p0 70.32 ± 0.0549
160
140
120
100
80
60
40

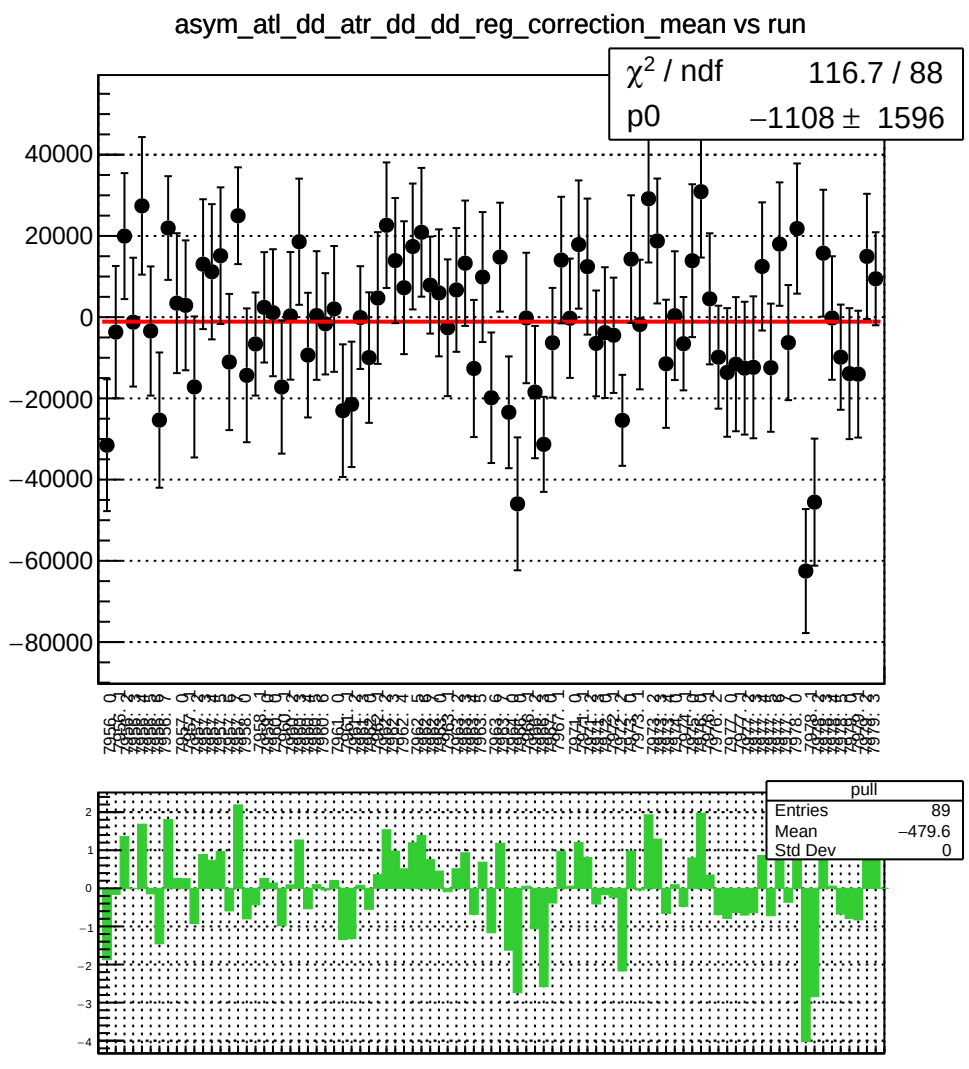

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.23 / 88
p0 2.568e−13 ± 1.412e−13
15
10
5
0
−5
−10
pull
Entries 89
Mean 106.7
Std Dev 0
pull1D
Entries 89
Mean 0.01658
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

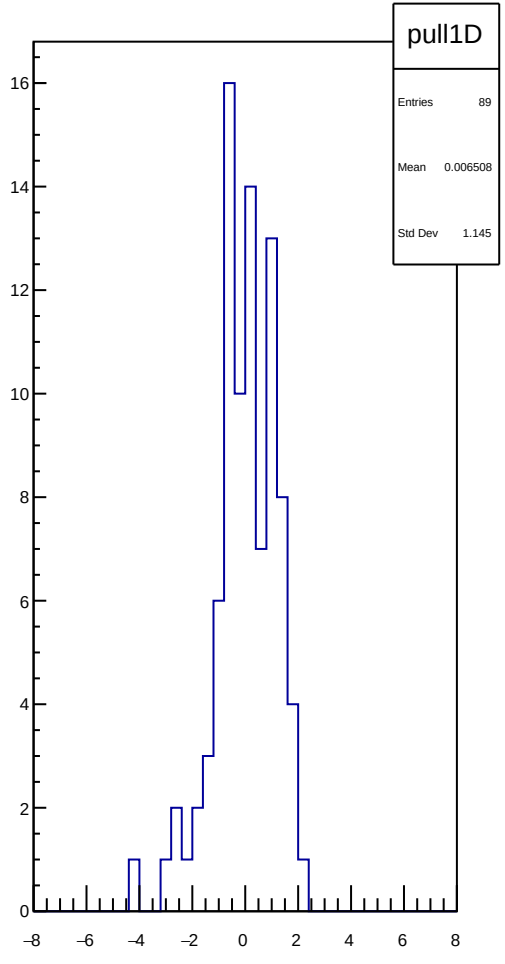

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.184e+05 / 88
p0 9.844e−11 ± 9.983e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

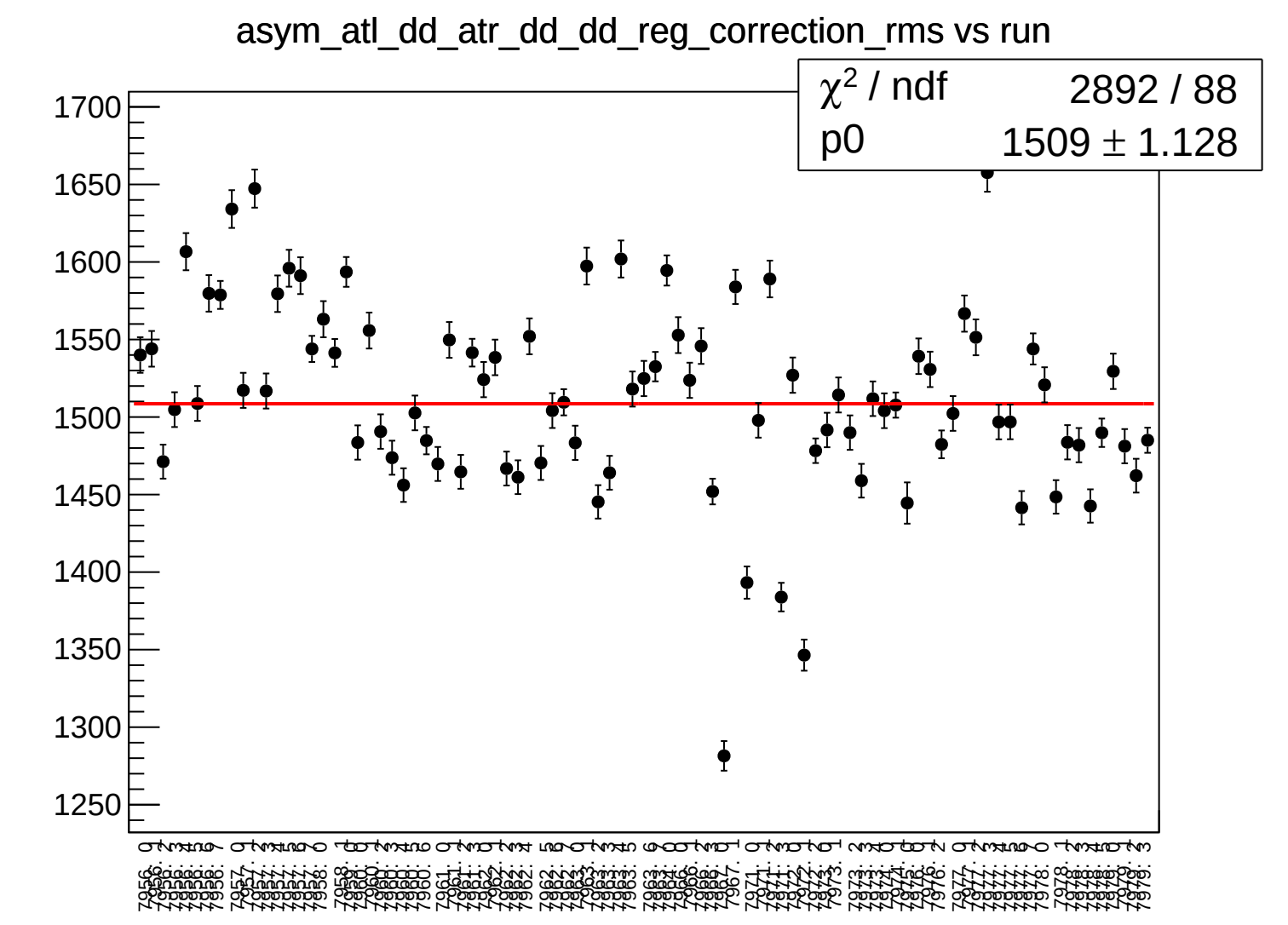

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 106.3 / 88
p0 −685.1± 1318
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −94.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

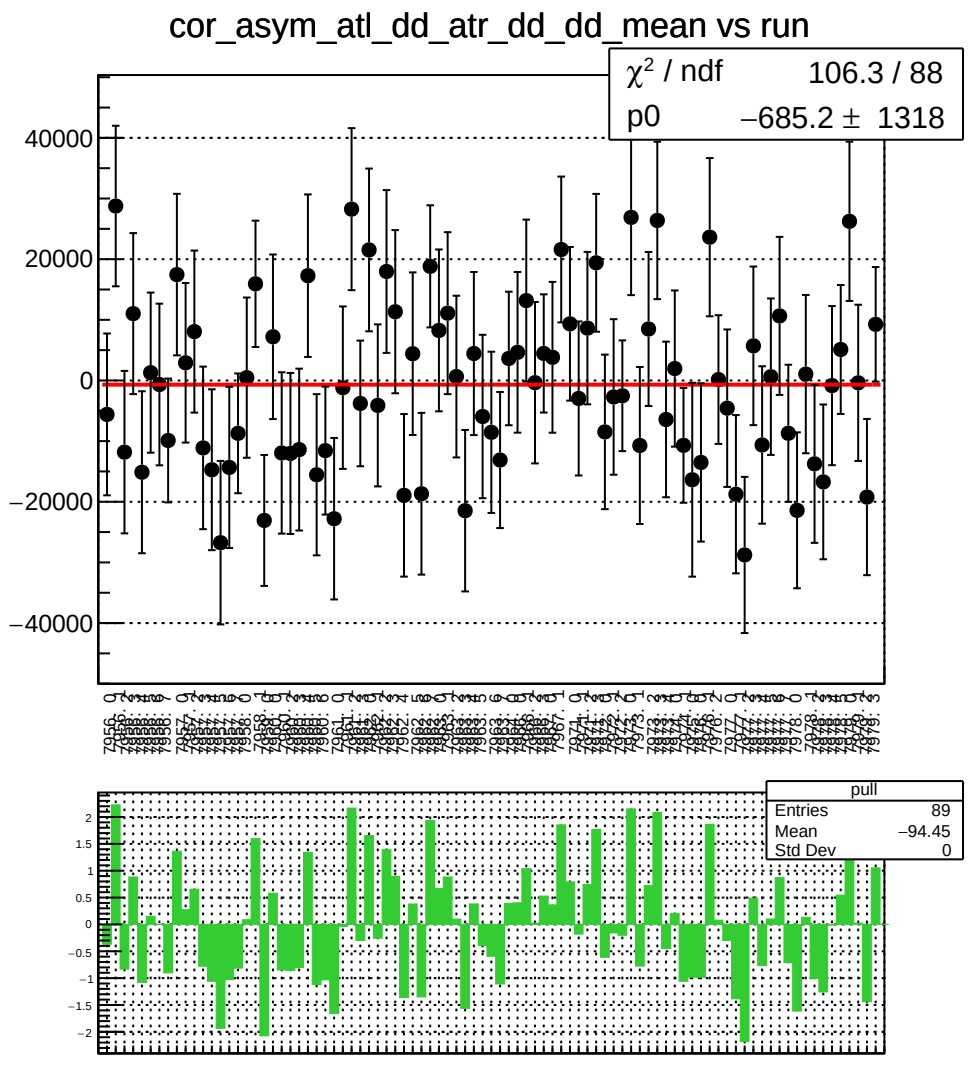

pull1D
Entries 89
Mean −0.003545
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

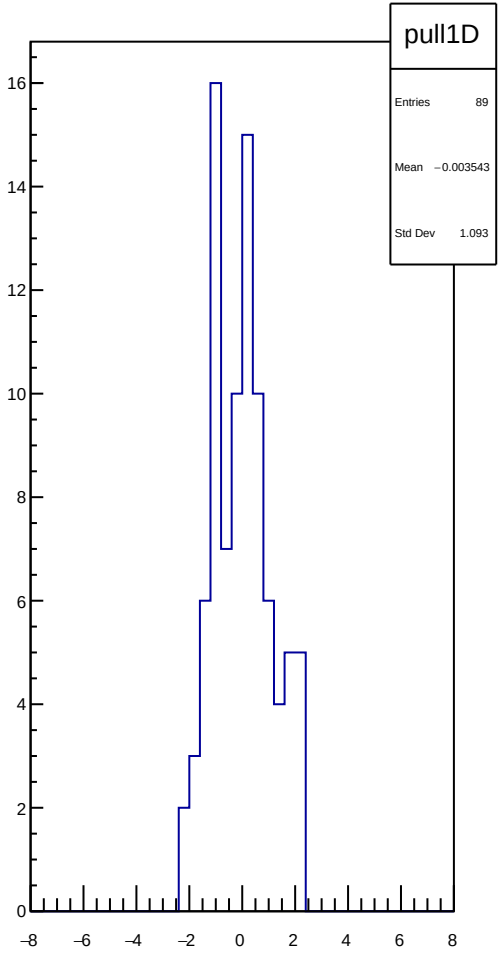

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 709.6 / 88
p0 1246 ± 0.9317
1300
1280
1260
1240
1220
1200
1180
1160

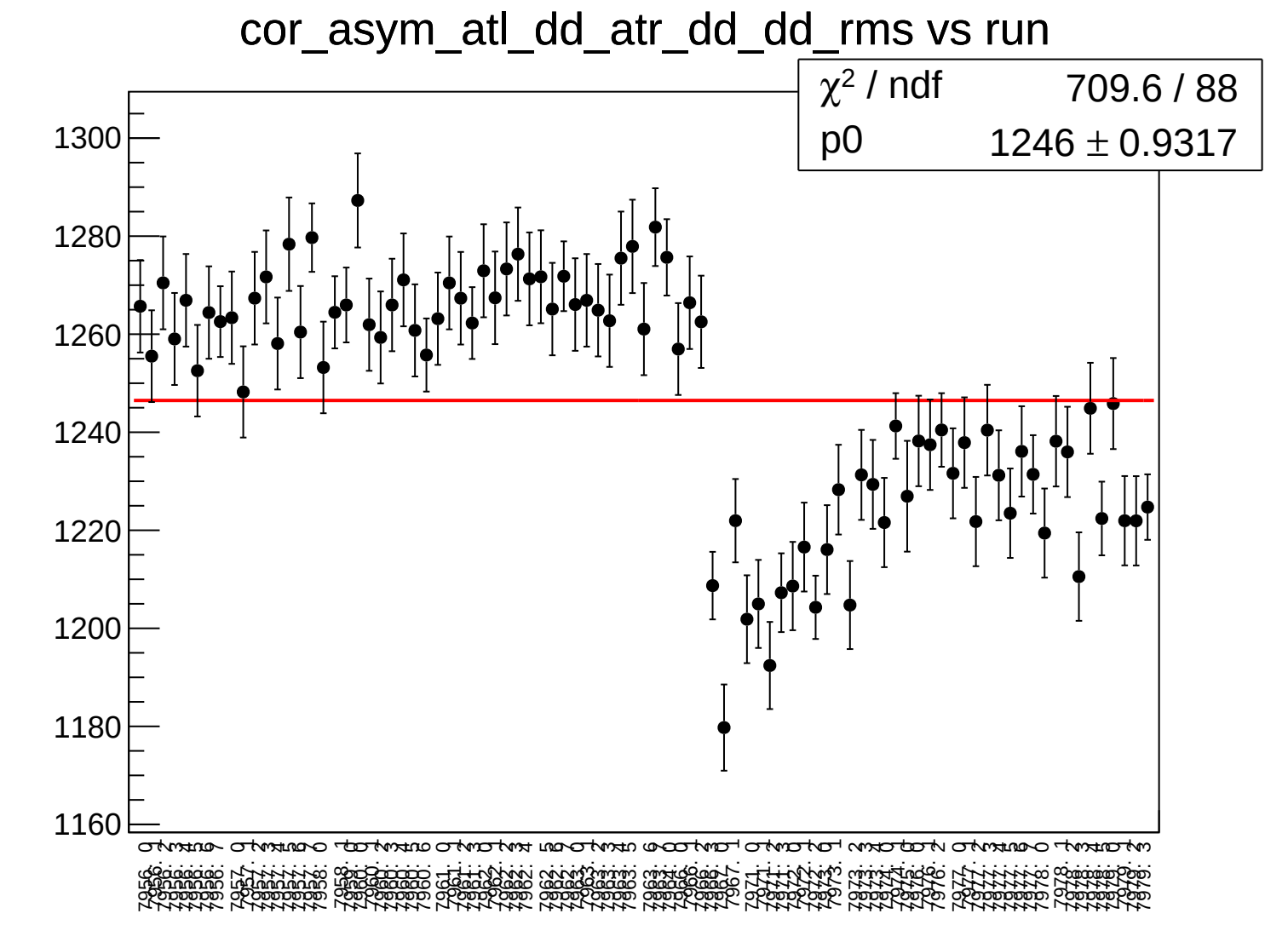

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 116.7 / 88
p0 −1108 ± 1596
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −479.6
Std Dev 0
2
1
0
−1
−2
−3
−4

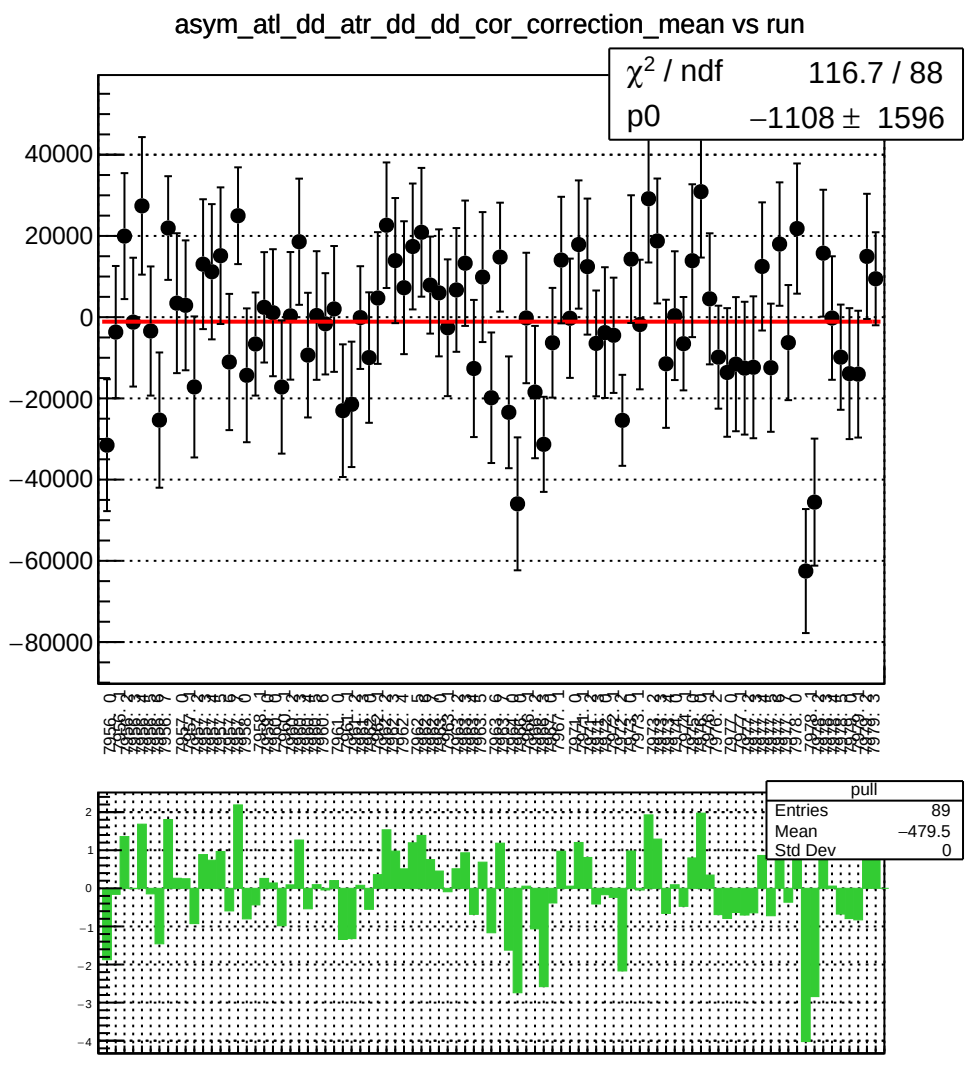

pull1D
Entries 89
Mean 0.006508
Std Dev 1.145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

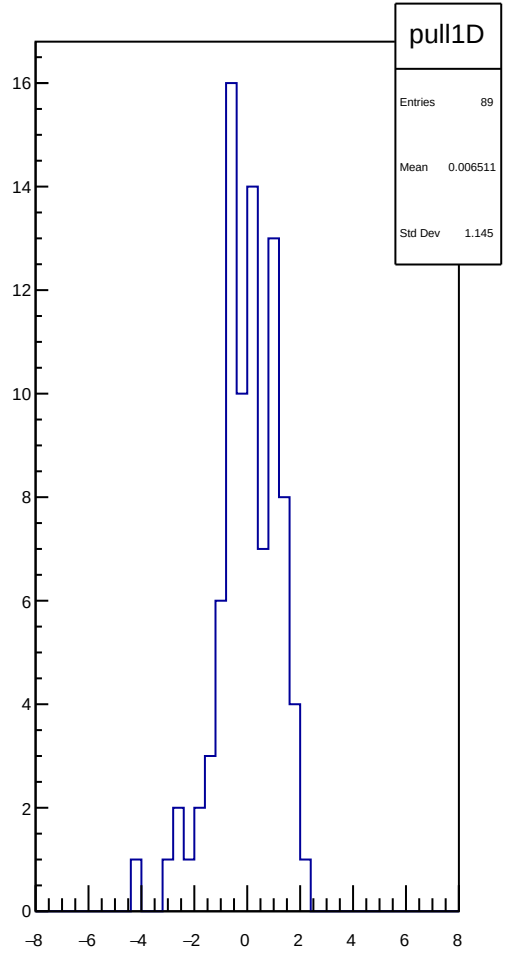

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2892 / 88
p0 1509 ± 1.128
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250

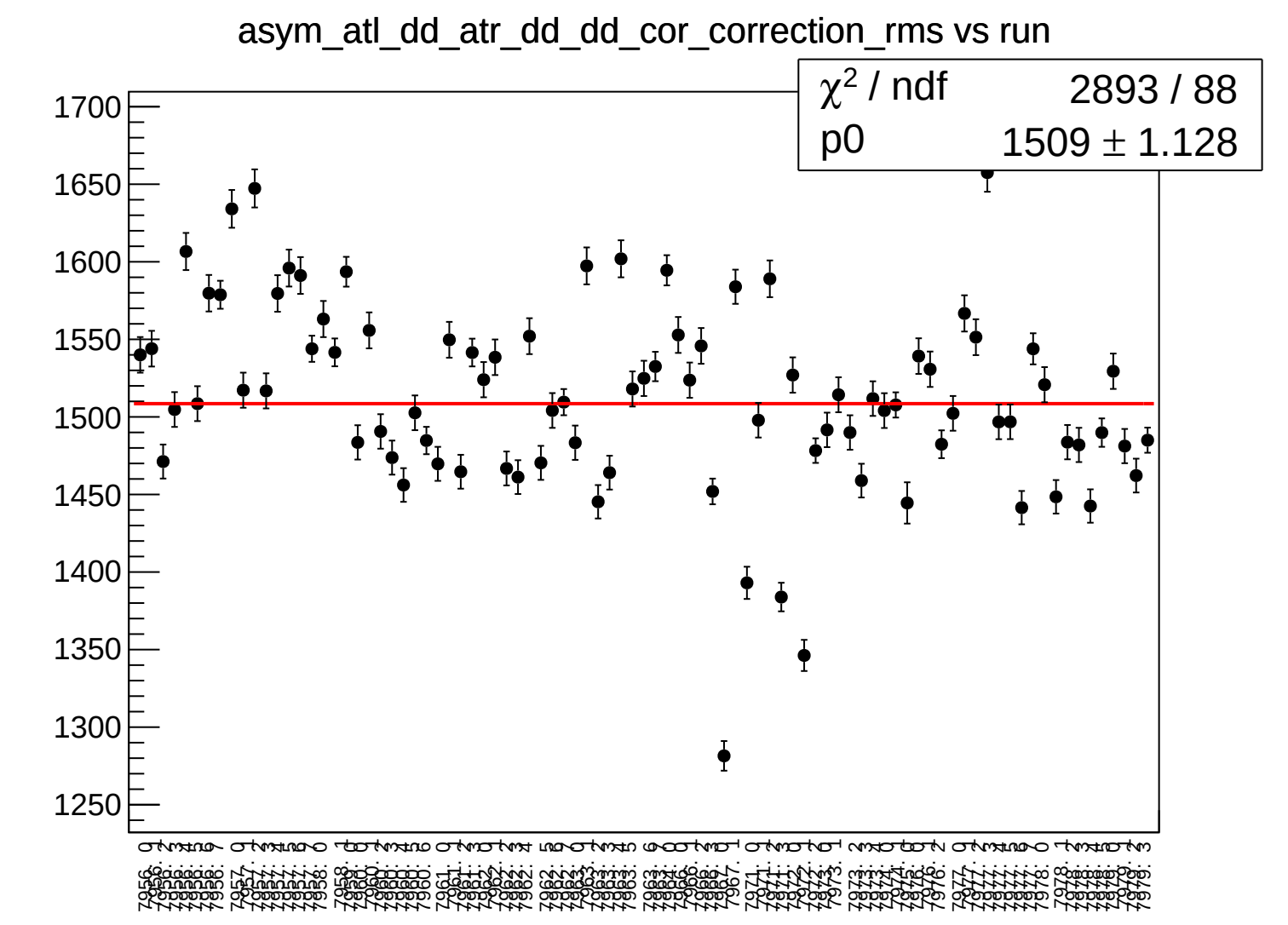

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 106.3 / 88
p0 −685.2 ± 1318
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −94.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

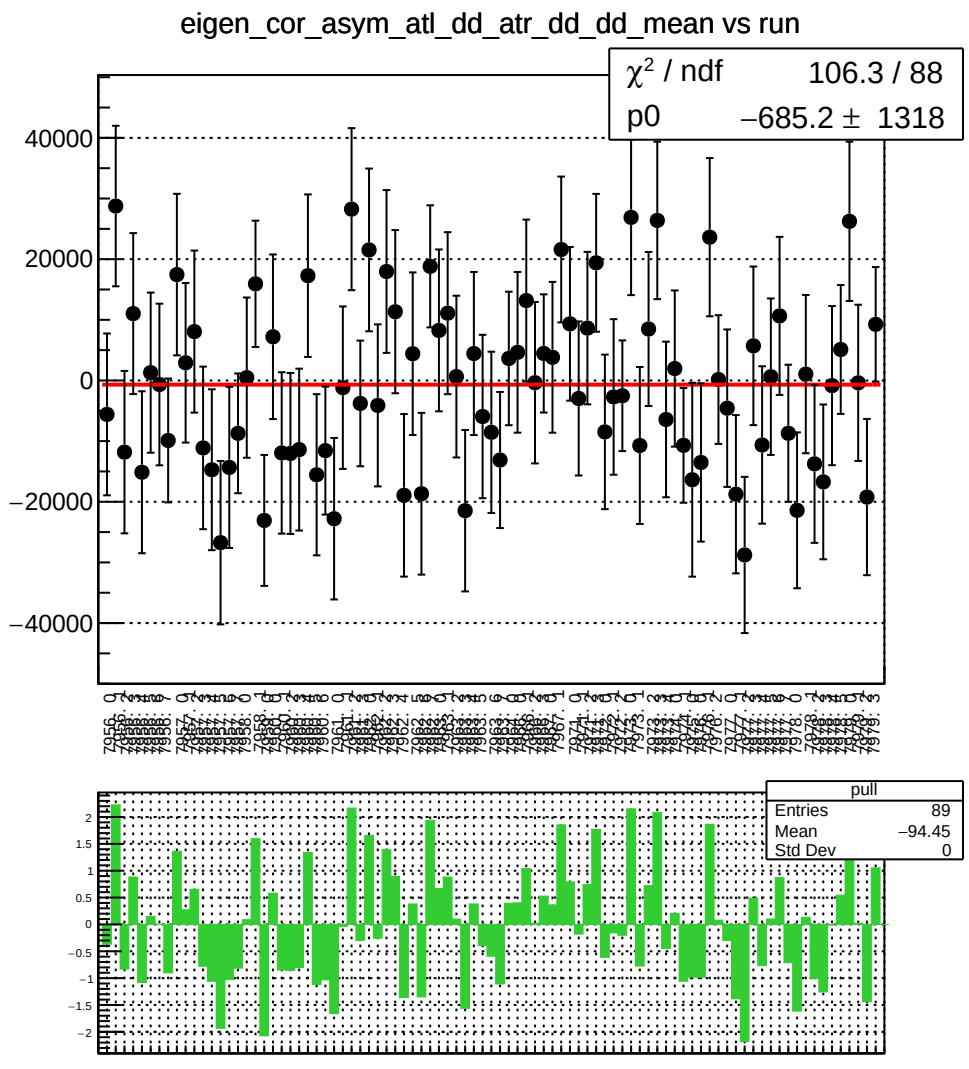

pull1D
Entries 89
Mean −0.003543
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

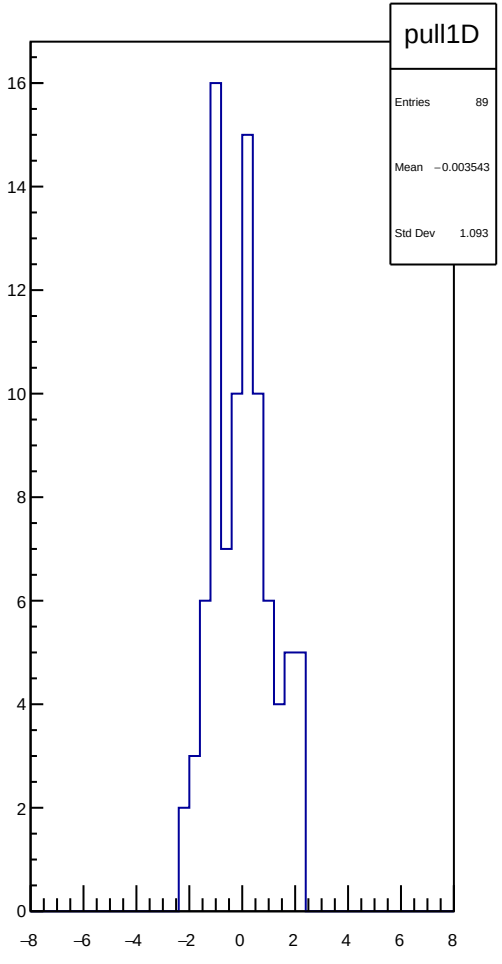

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 709.6 / 88
p0 1246 ± 0.9317
1300
1280
1260
1240
1220
1200
1180
1160

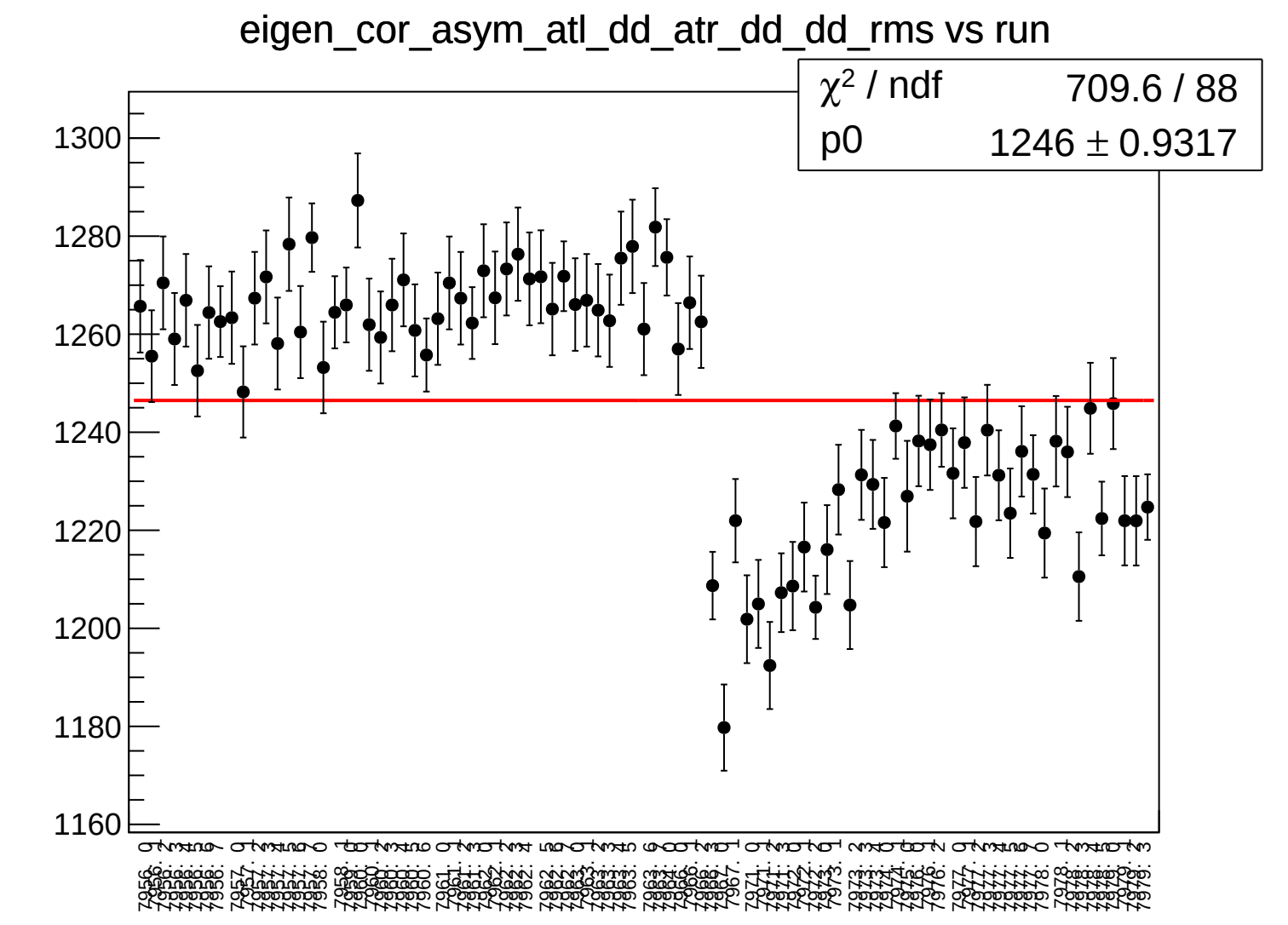

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 116.7 / 88
p0 −1108 ± 1596
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −479.5
Std Dev 0
2
1
0
−1
−2
−3
−4

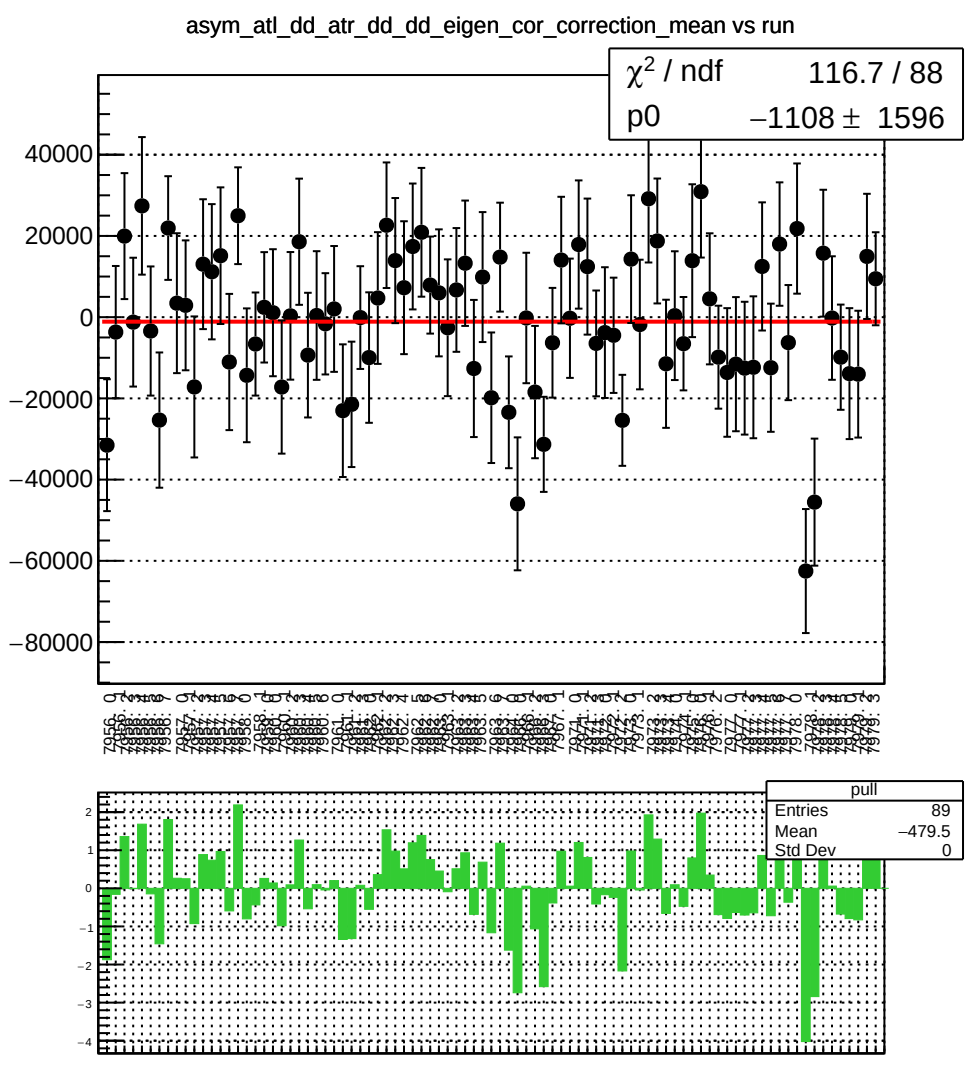

pull1D
Entries 89
Mean 0.006511
Std Dev 1.145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

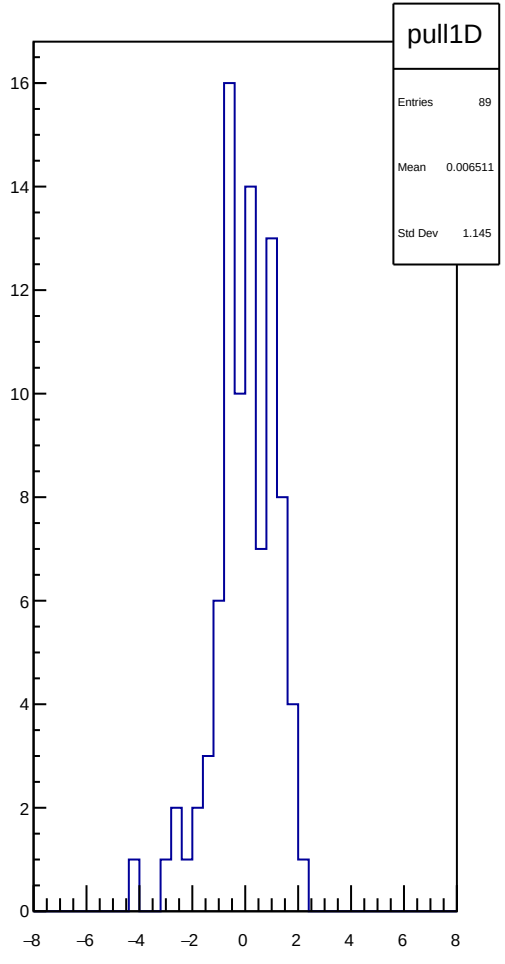

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 2893 / 88
p0 1509 ± 1.128
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250

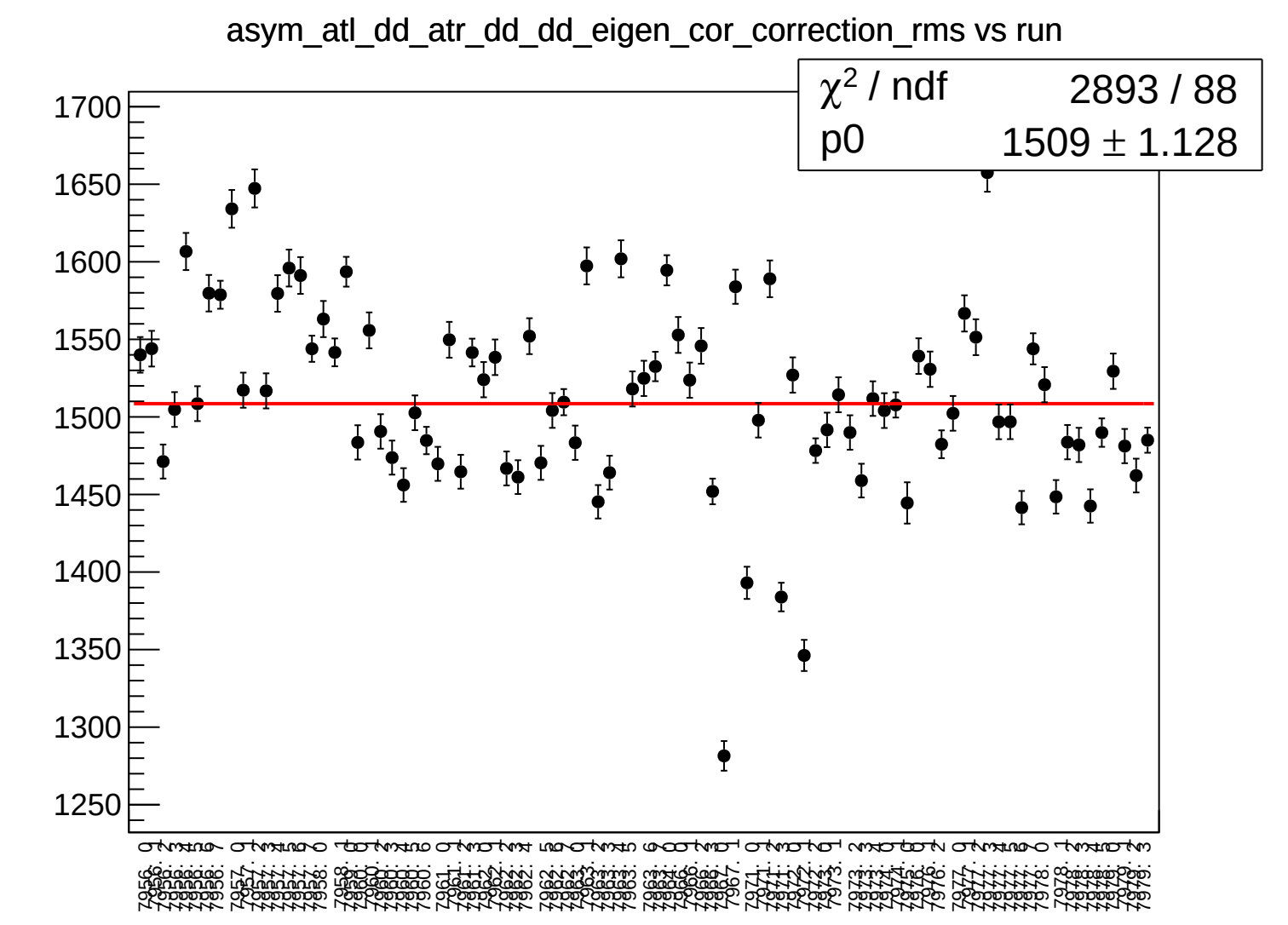

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 106.3 / 88
p0 −685.2 ± 1318
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −94.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

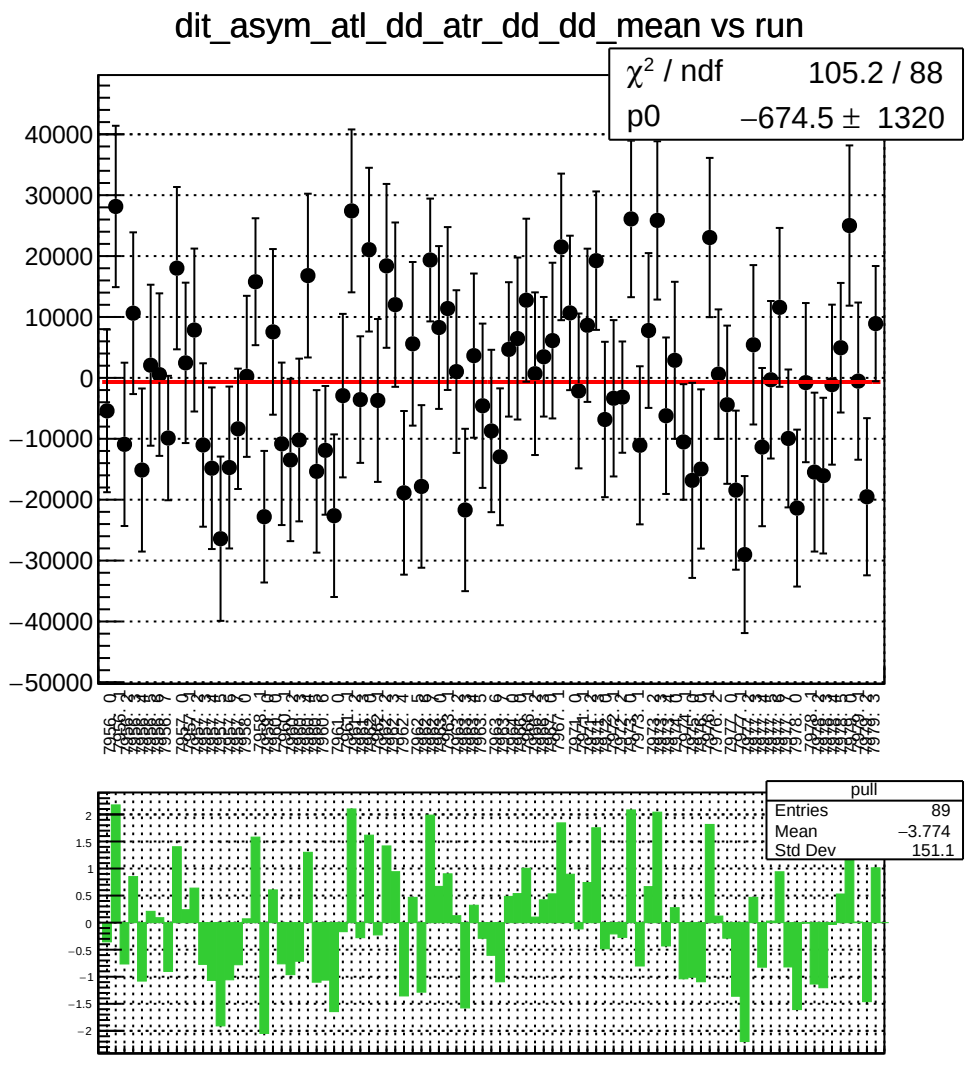

pull1D
Entries 89
Mean −0.003543
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

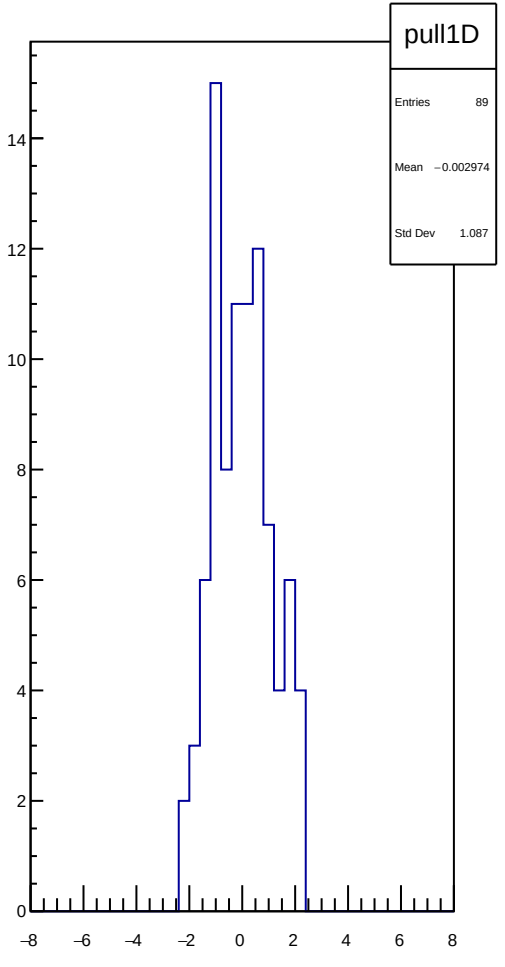

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 709.6 / 88
p0 1246 ± 0.9317
1300
1280
1260
1240
1220
1200
1180
1160

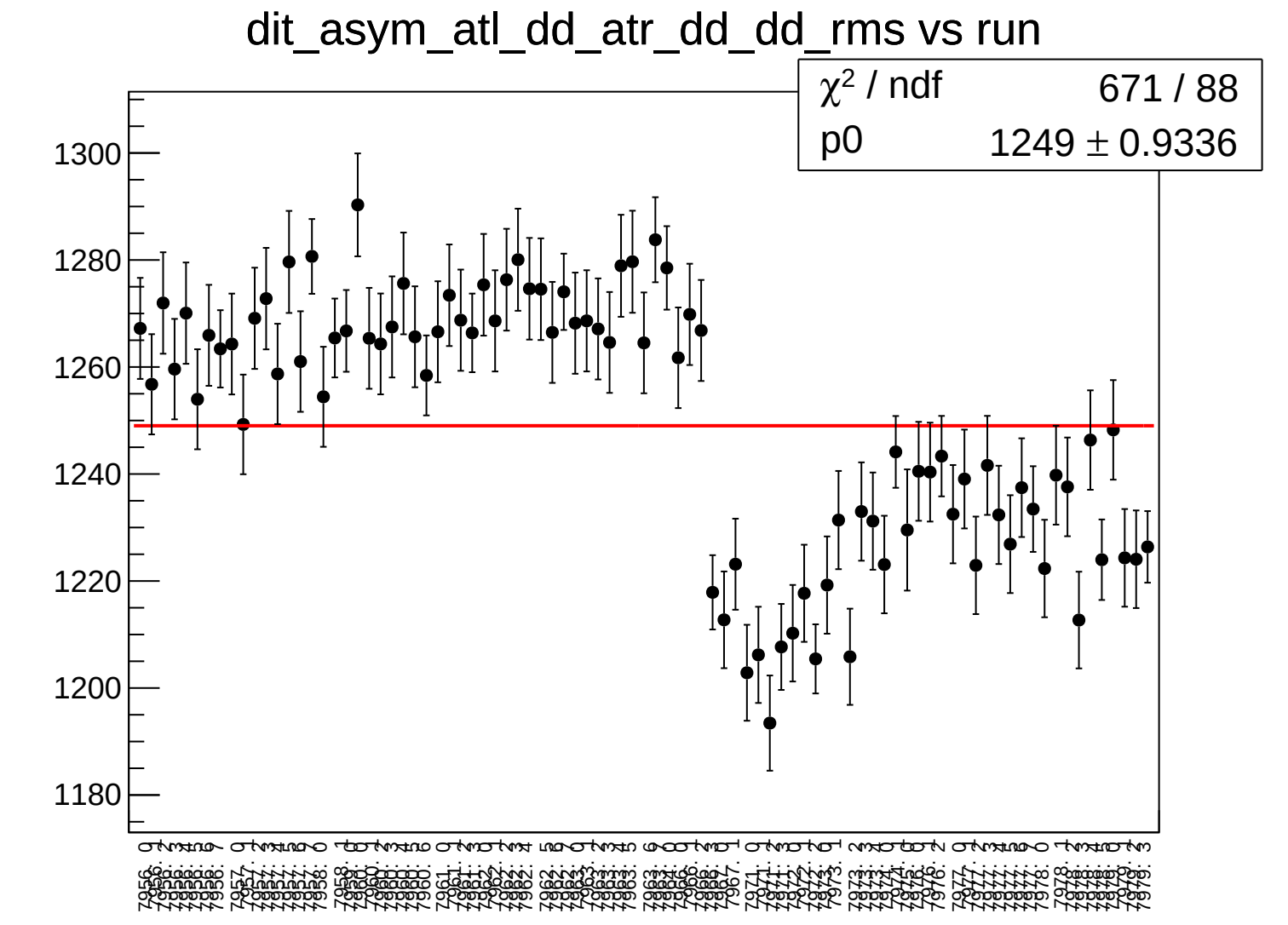

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 116.7 / 88
p0 −1108 ± 1596
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −479.5
Std Dev 0
2
1
0
−1
−2
−3
−4

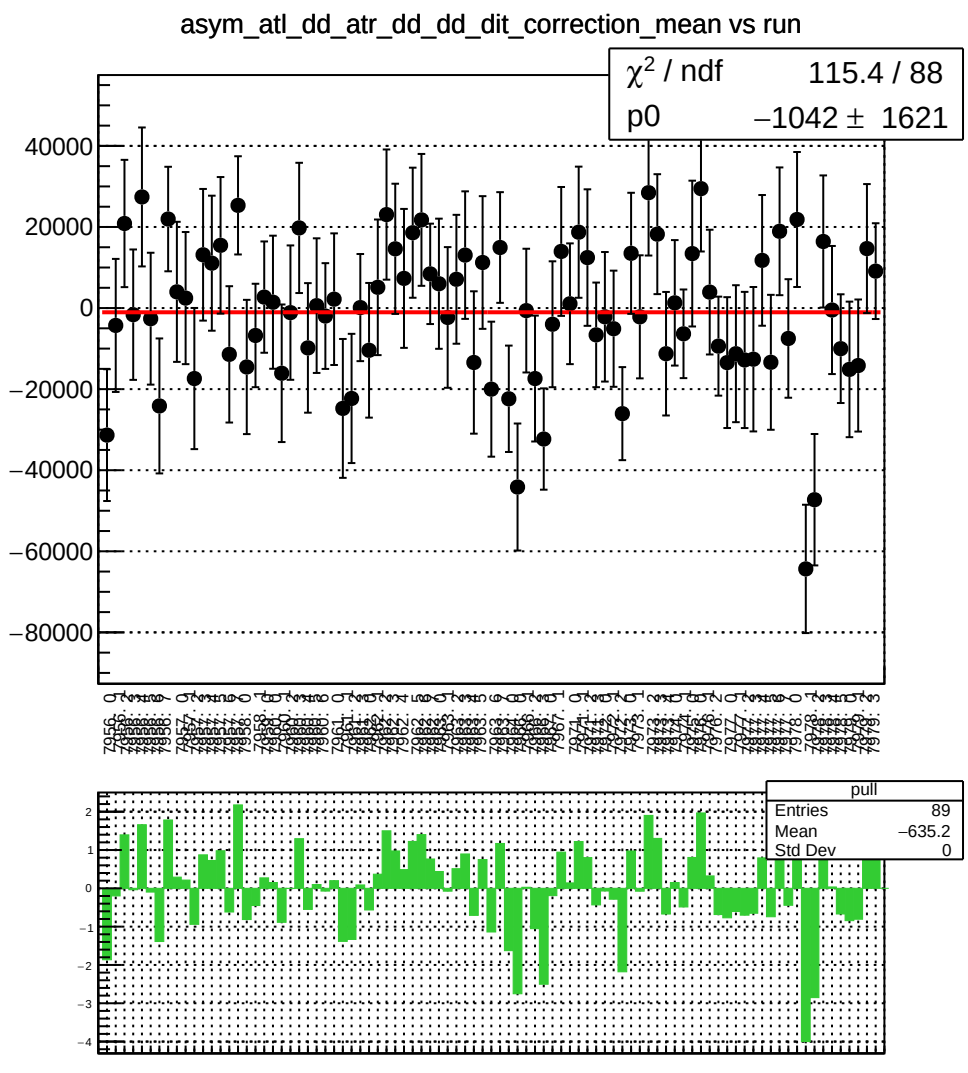

pull1D
Entries 89
Mean 0.006511
Std Dev 1.145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

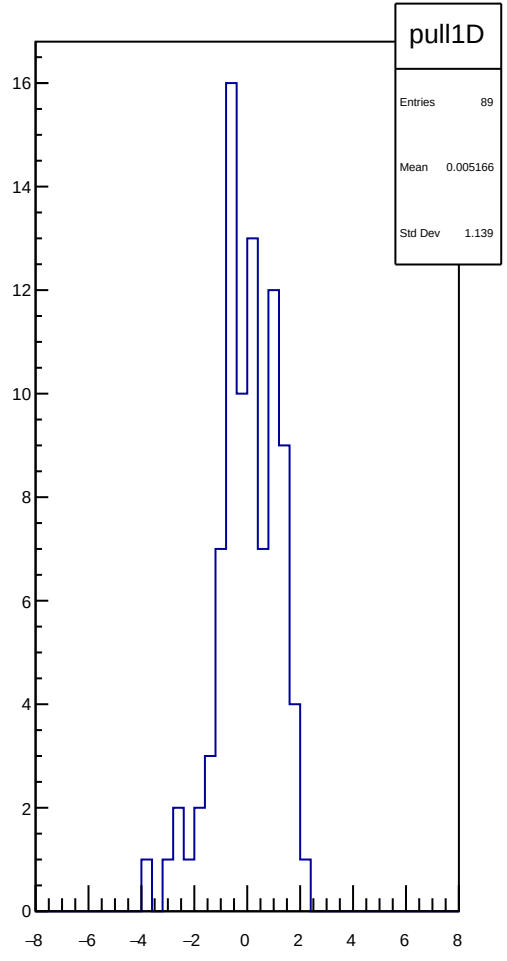

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2893 / 88
p0 1509 ± 1.128
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250

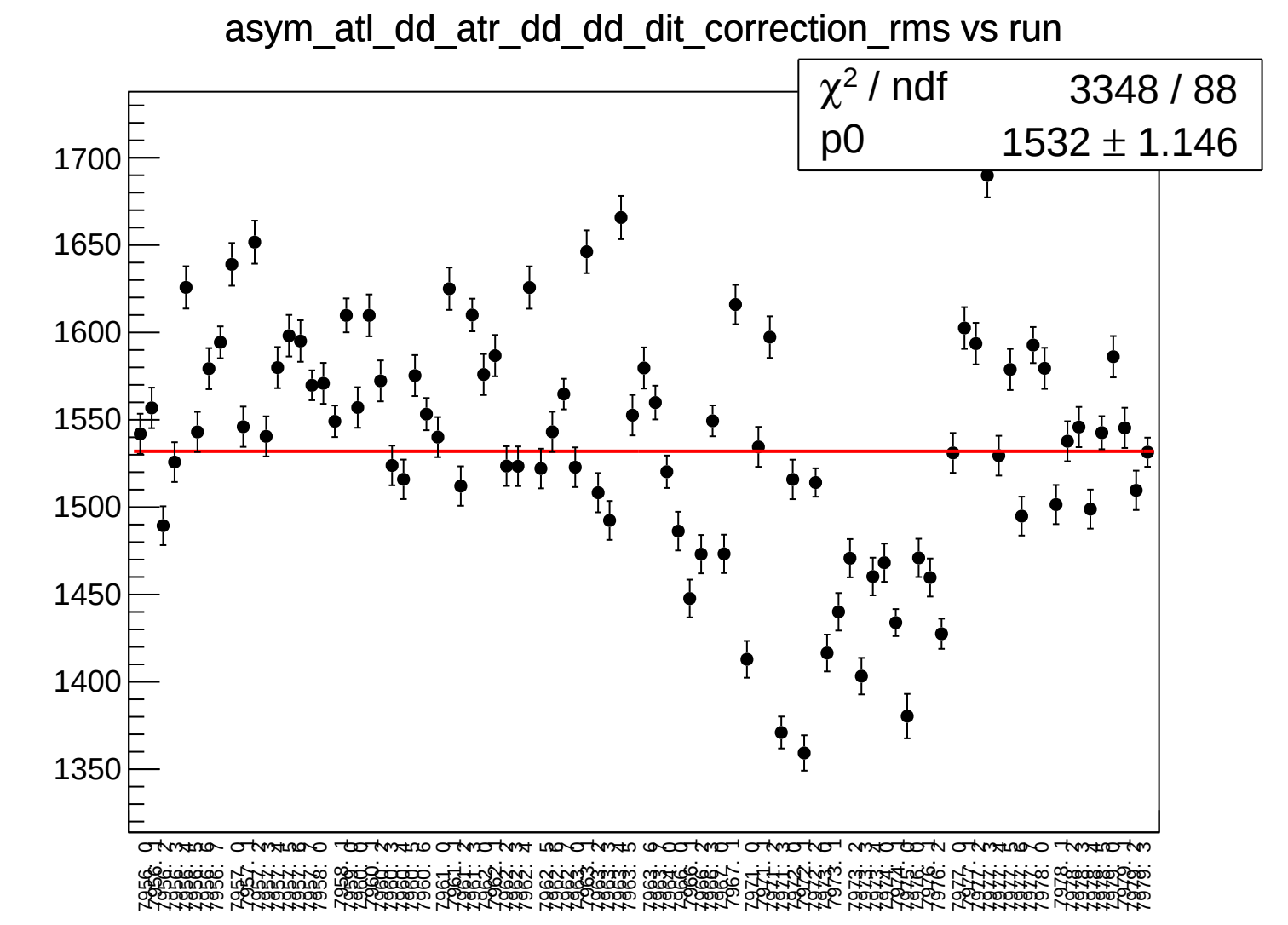

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 105.2 / 88
p0 −674.5 ± 1320
pull
Entries 89
Mean −3.774
Std Dev 151.1

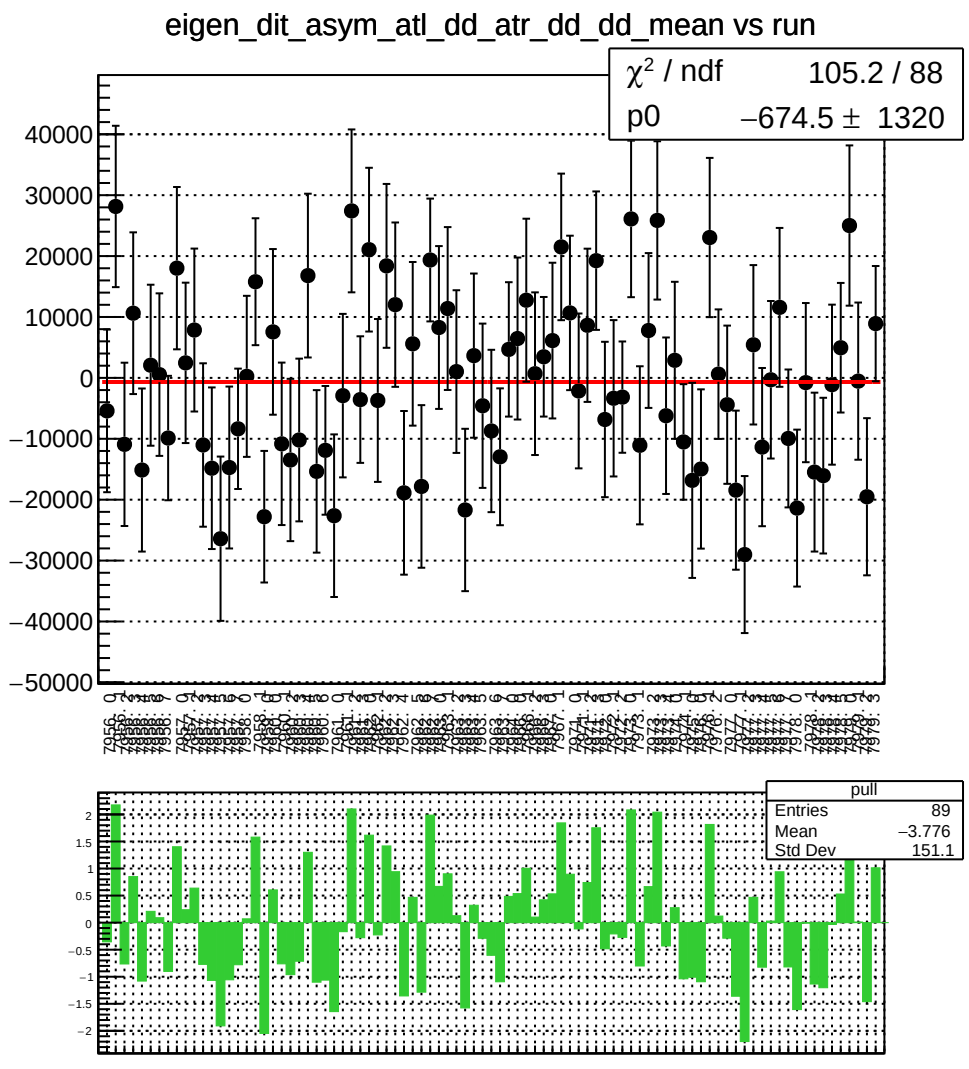

pull1D
Entries 89
Mean −0.002974
Std Dev 1.087

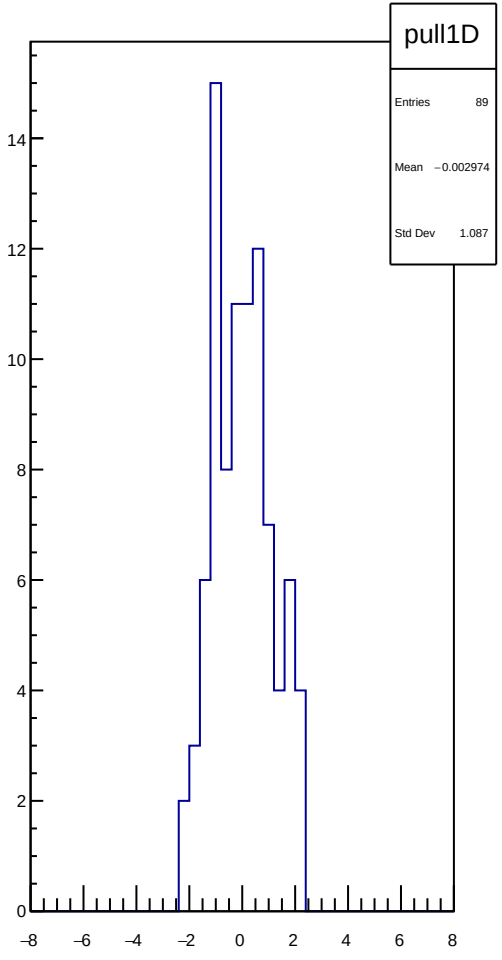

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 671 / 88
p0 1249 ± 0.9336
1300
1280
1260
1240
1220
1200
1180

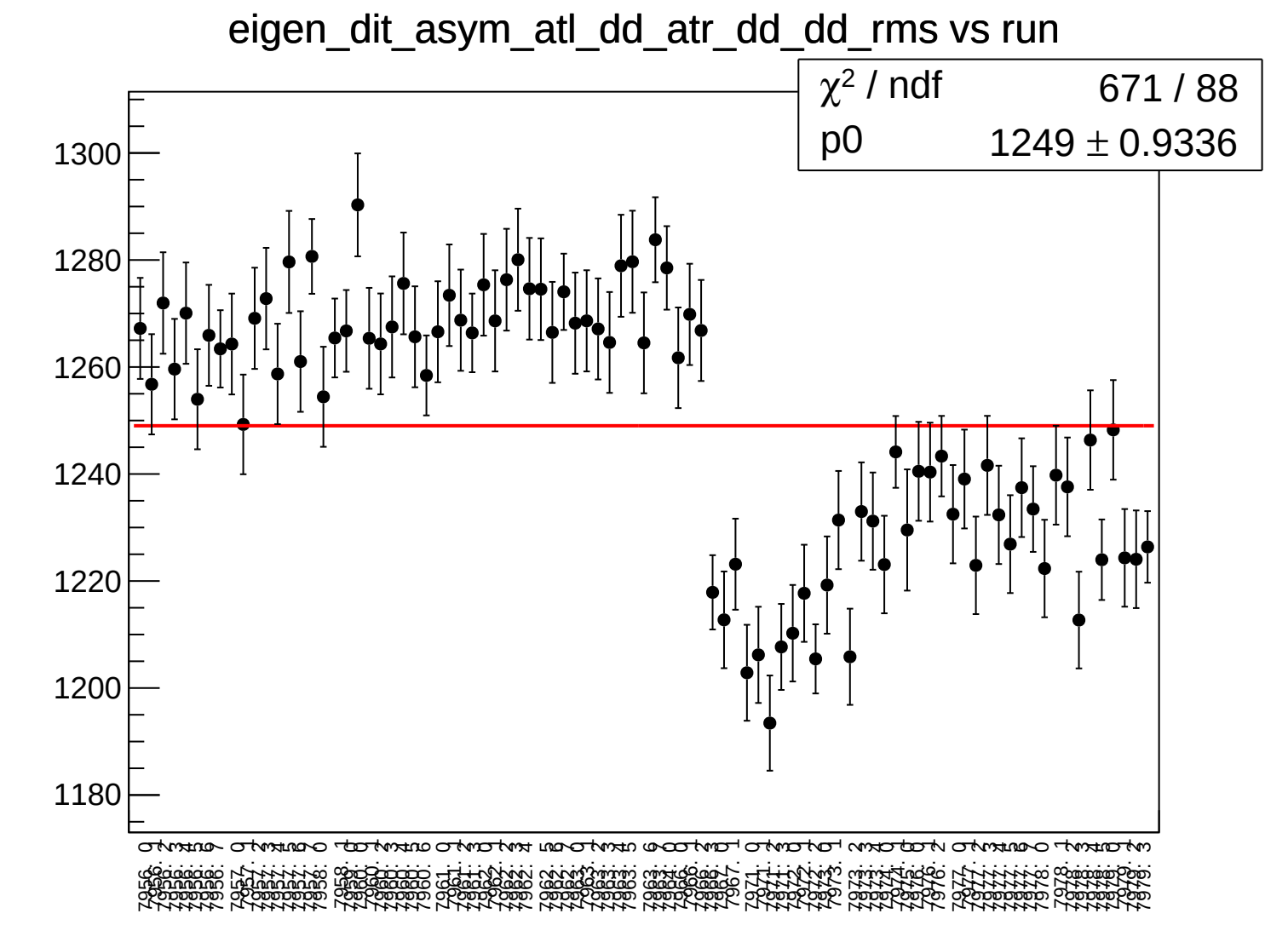

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 115.4 / 88
p0 −1042 ± 1621
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −635.2
Std Dev 0
2
1
0
−1
−2
−3
−4

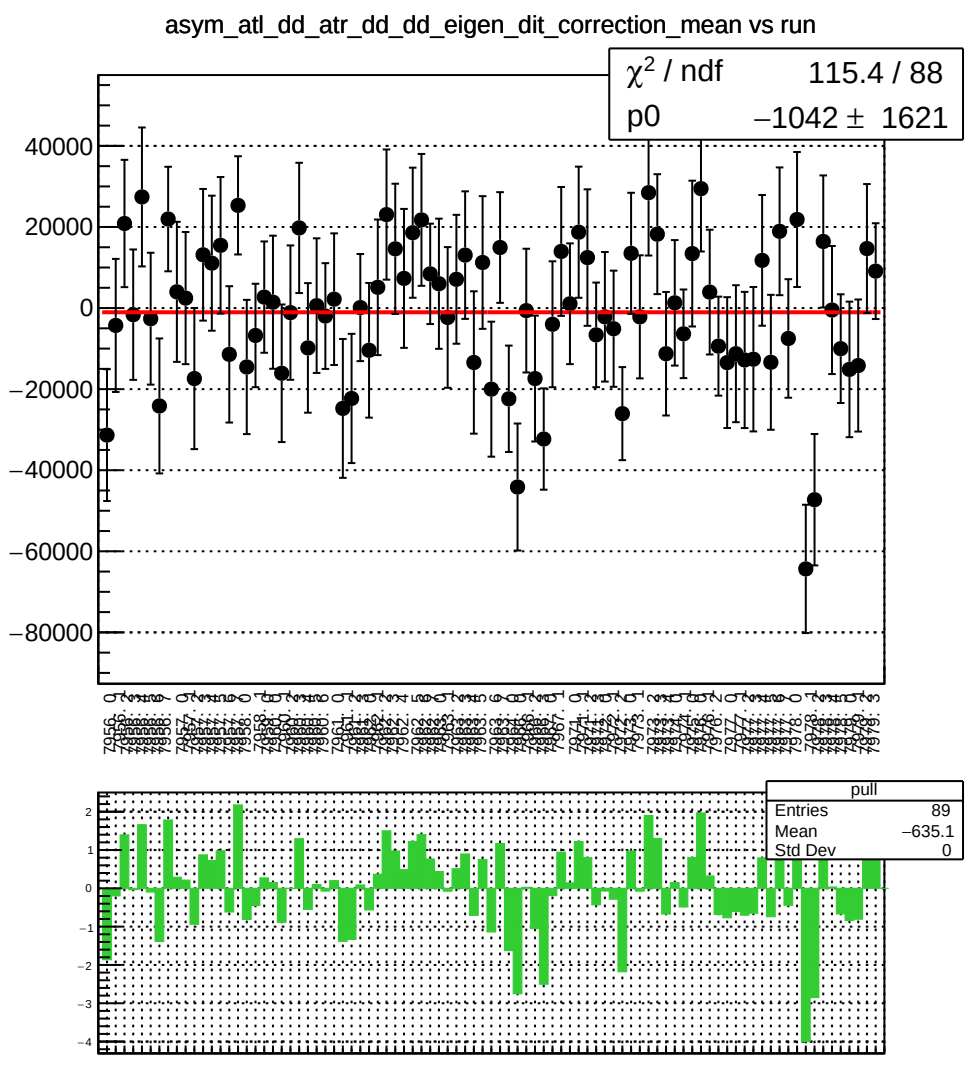

pull1D
Entries 89
Mean 0.005166
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

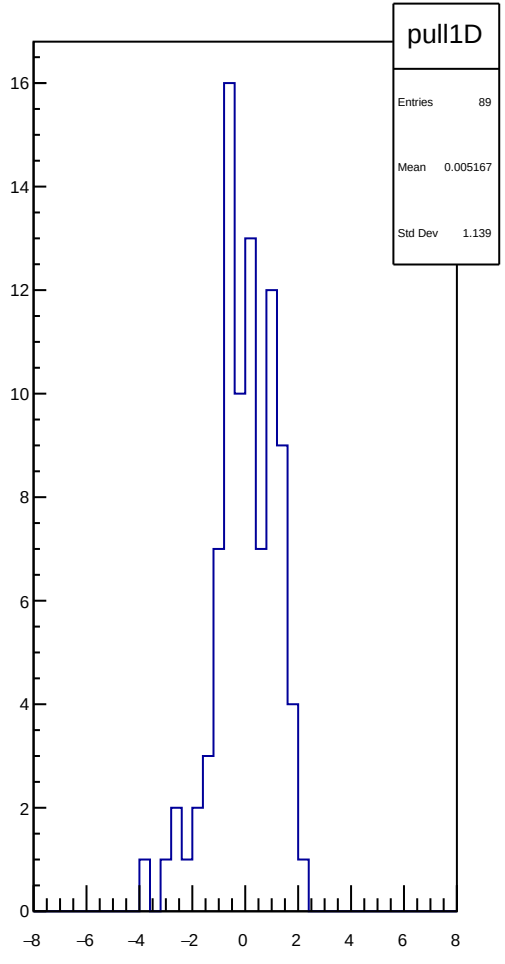

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 3348 / 88
p0 1532 ± 1.146
1700
1650
1600
1550
1500
1450
1400
1350

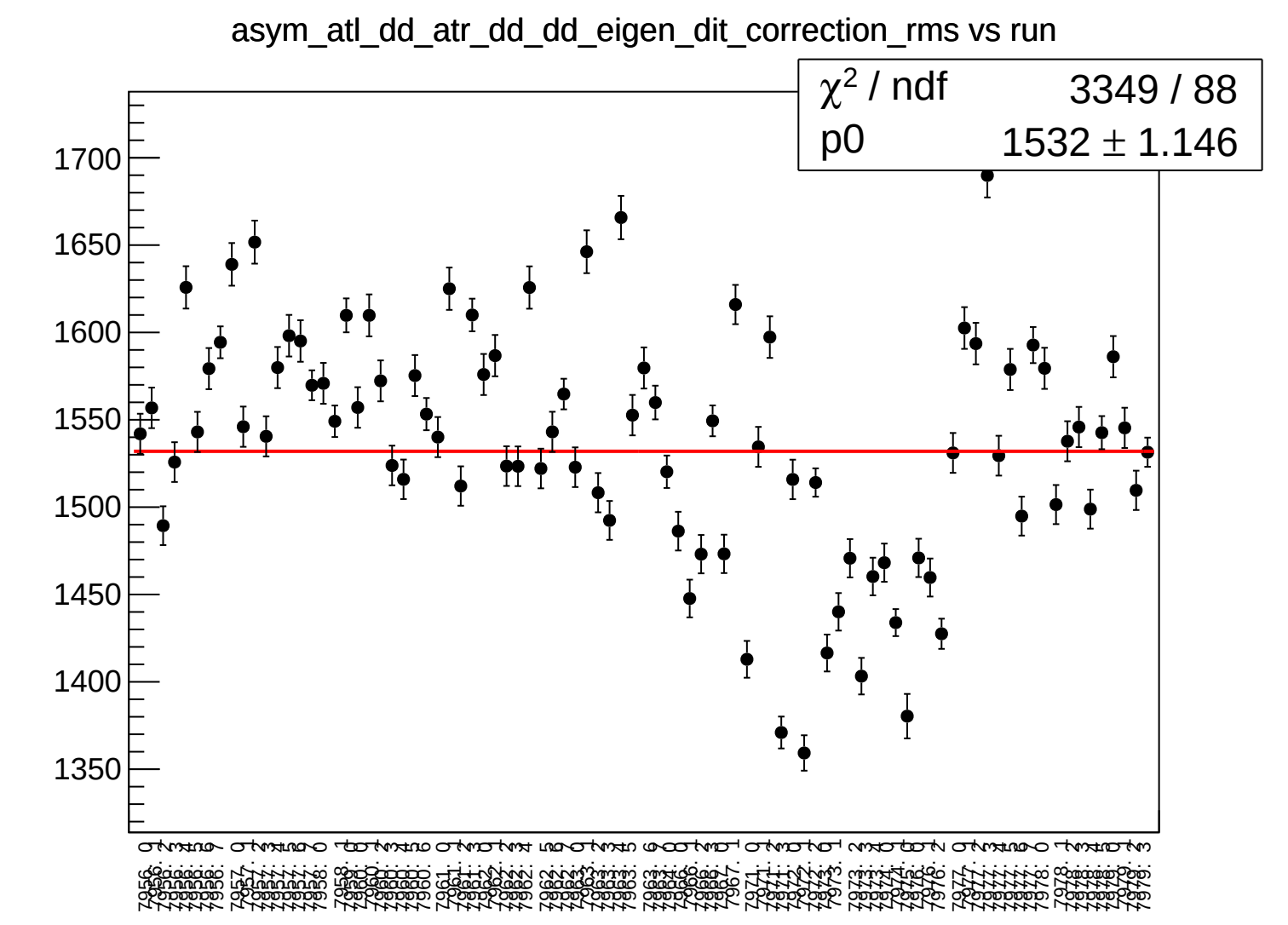

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 105.2 / 88
p0 −674.5 ± 1320
pull
Entries 89
Mean −3.776
Std Dev 151.1

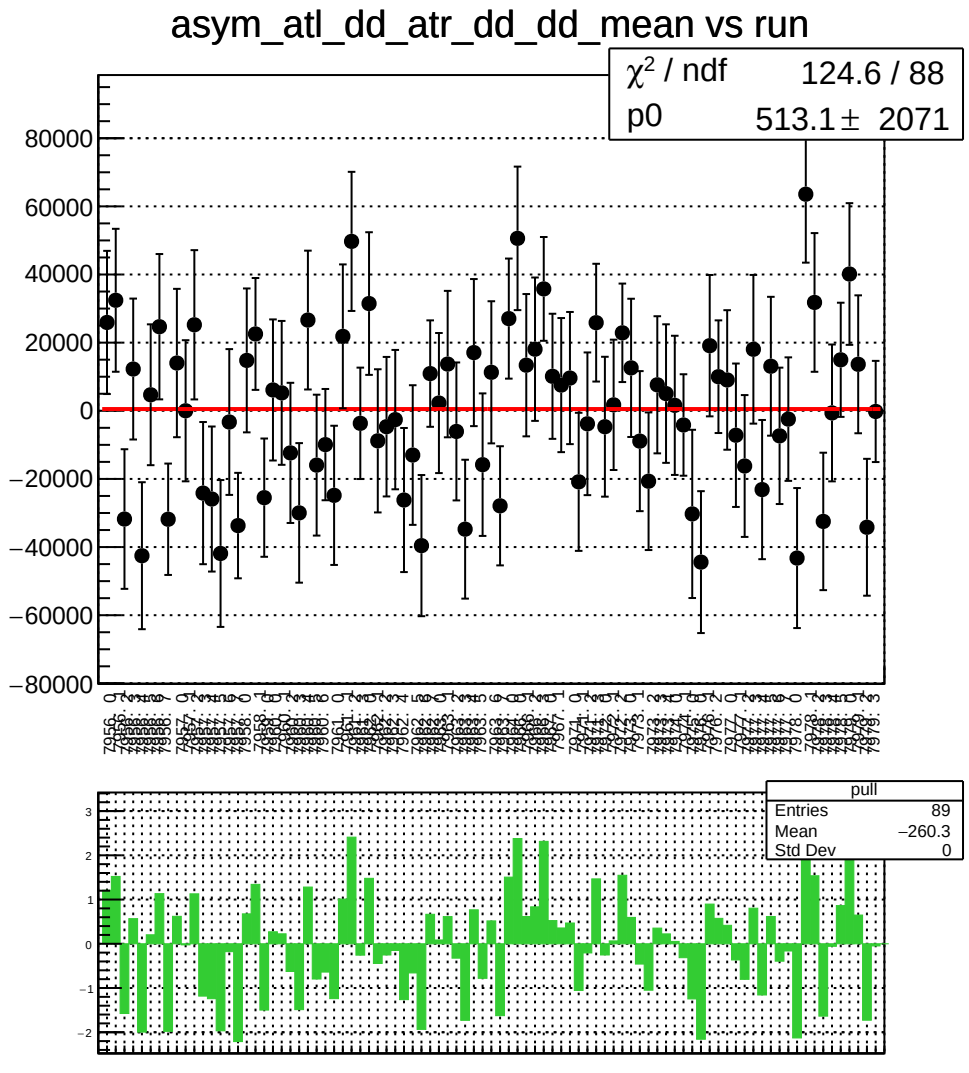

pull1D
Entries 89
Mean −0.002974
Std Dev 1.087

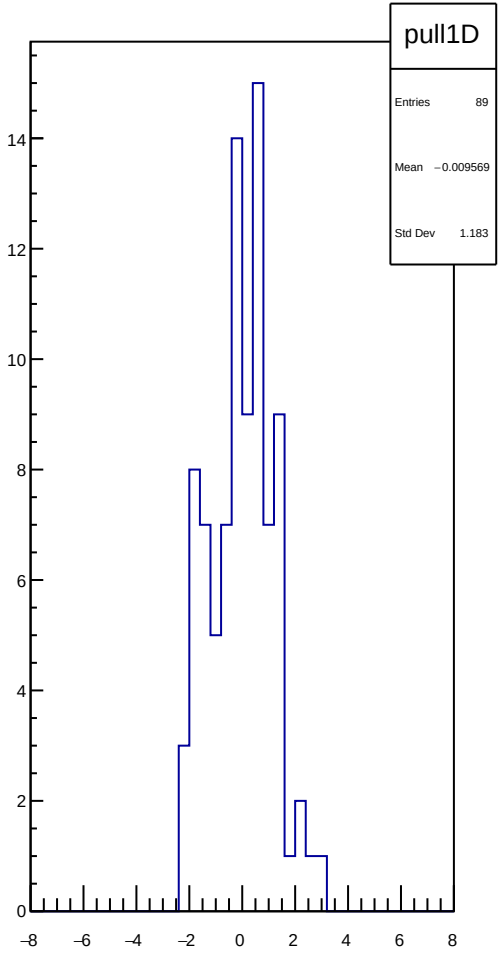

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 671 / 88
p0 1249 ± 0.9336
1300
1280
1260
1240
1220
1200
1180

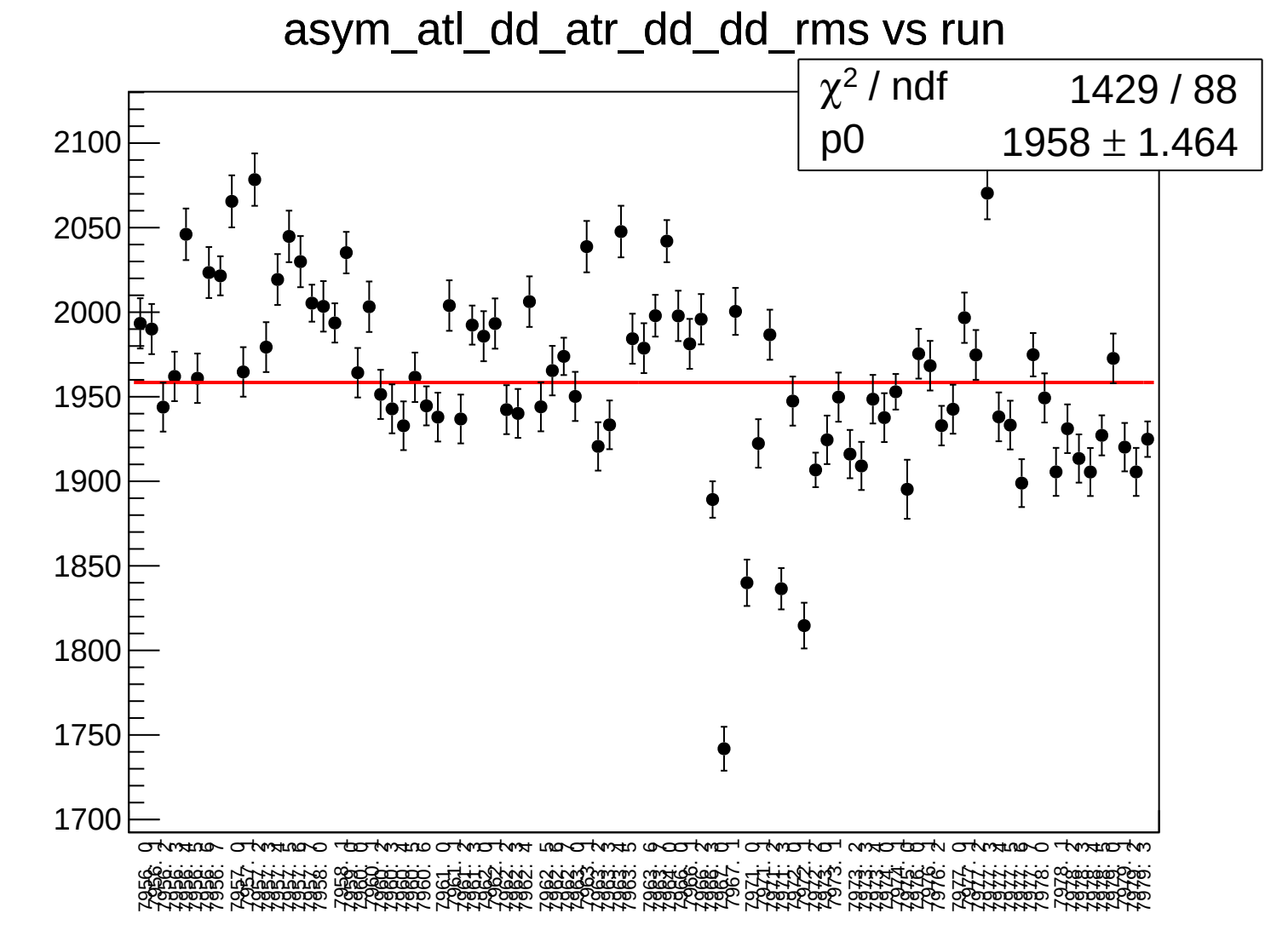

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 115.4 / 88
p0 −1042 ± 1621
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −635.1
Std Dev 0
2
1
0
−1
−2
−3
−4

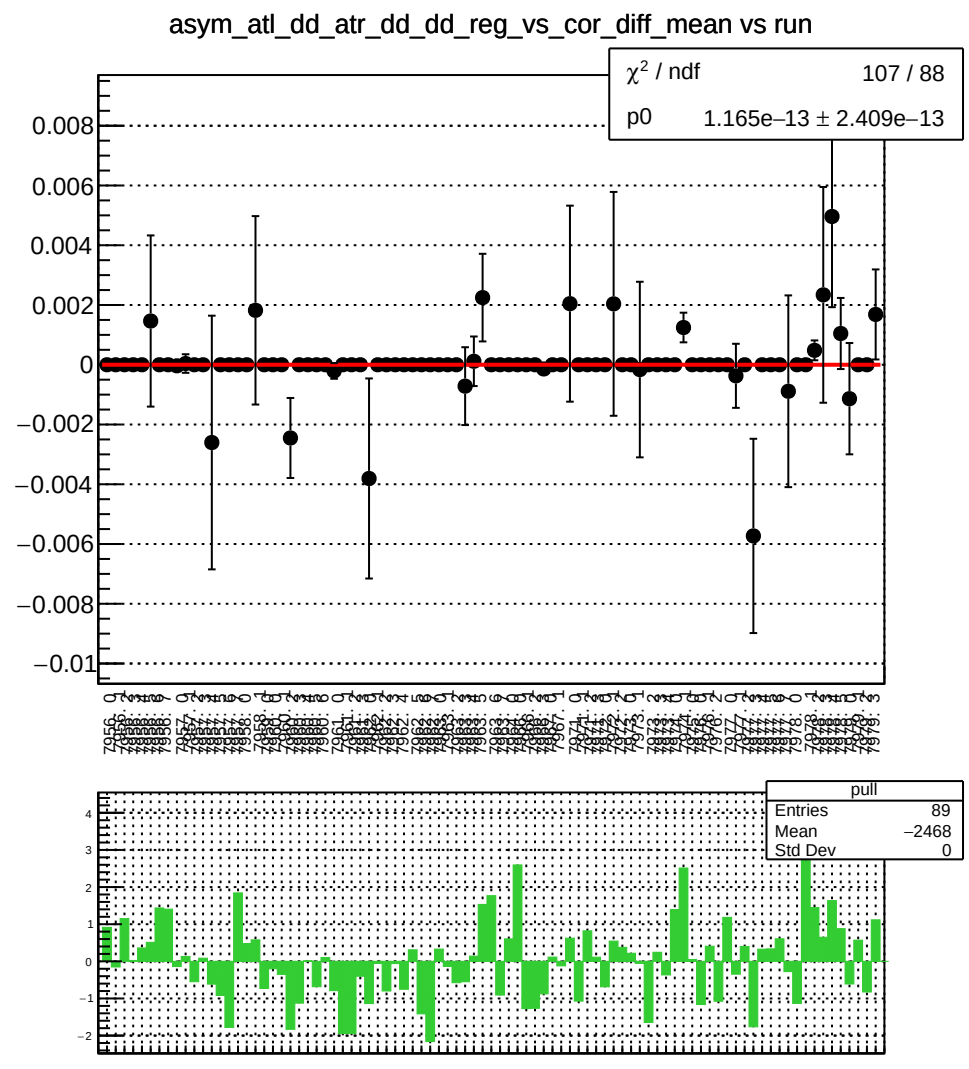

pull1D
Entries 89
Mean 0.005167
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

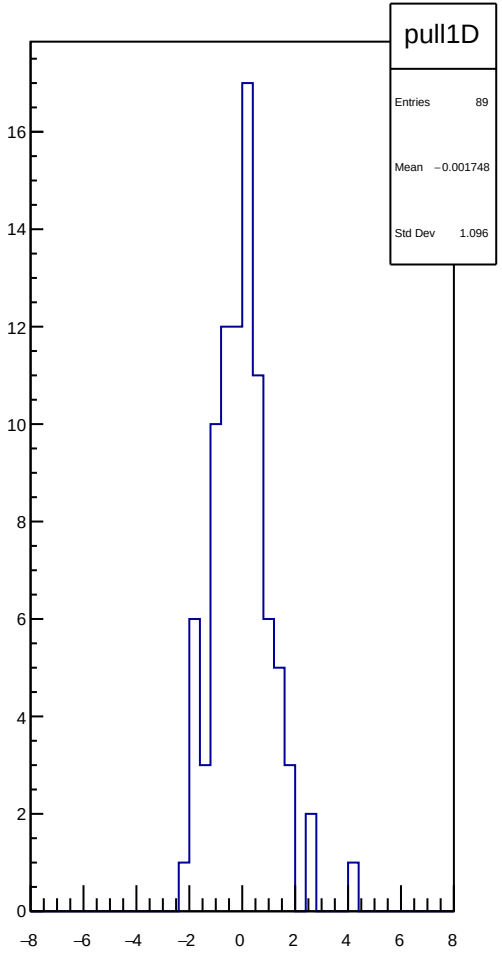

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3349 / 88
p0 1532 ± 1.146
1700
1650
1600
1550
1500
1450
1400
1350

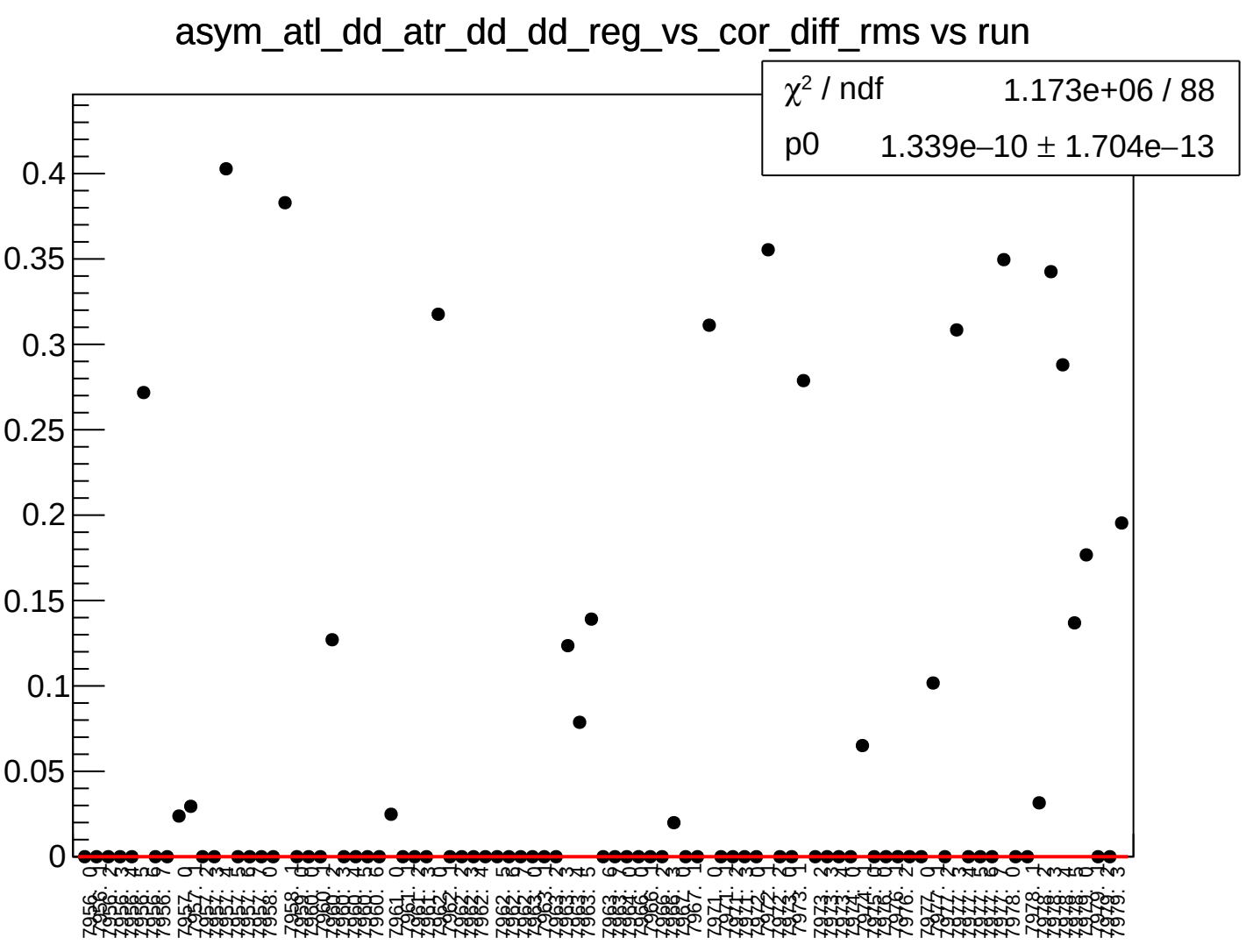

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 124.6 / 88
p0 513.1 ± 2071
pull
Entries 89
Mean −260.3
Std Dev 0

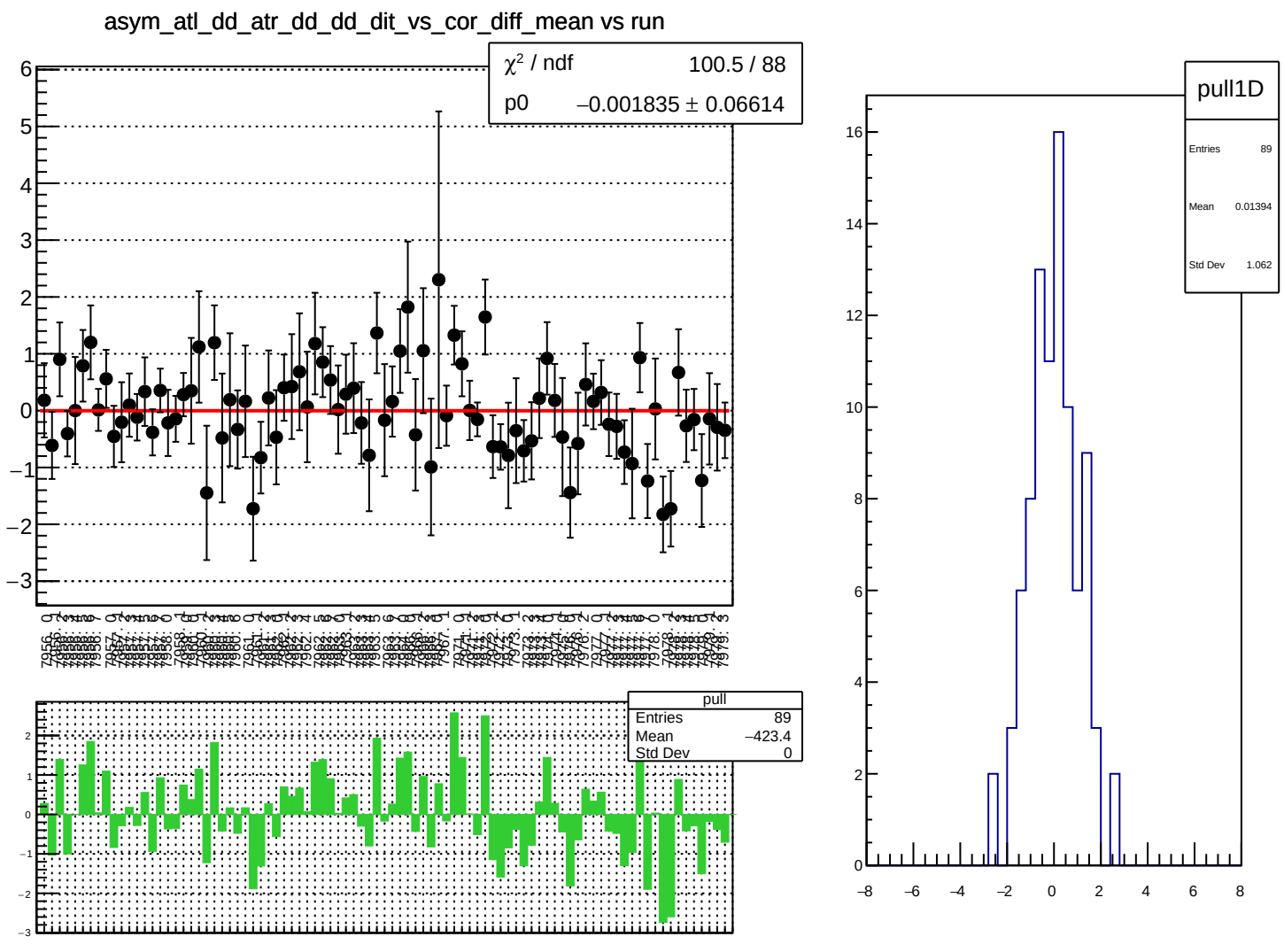

pull1D
Entries 89
Mean −0.009569
Std Dev 1.183

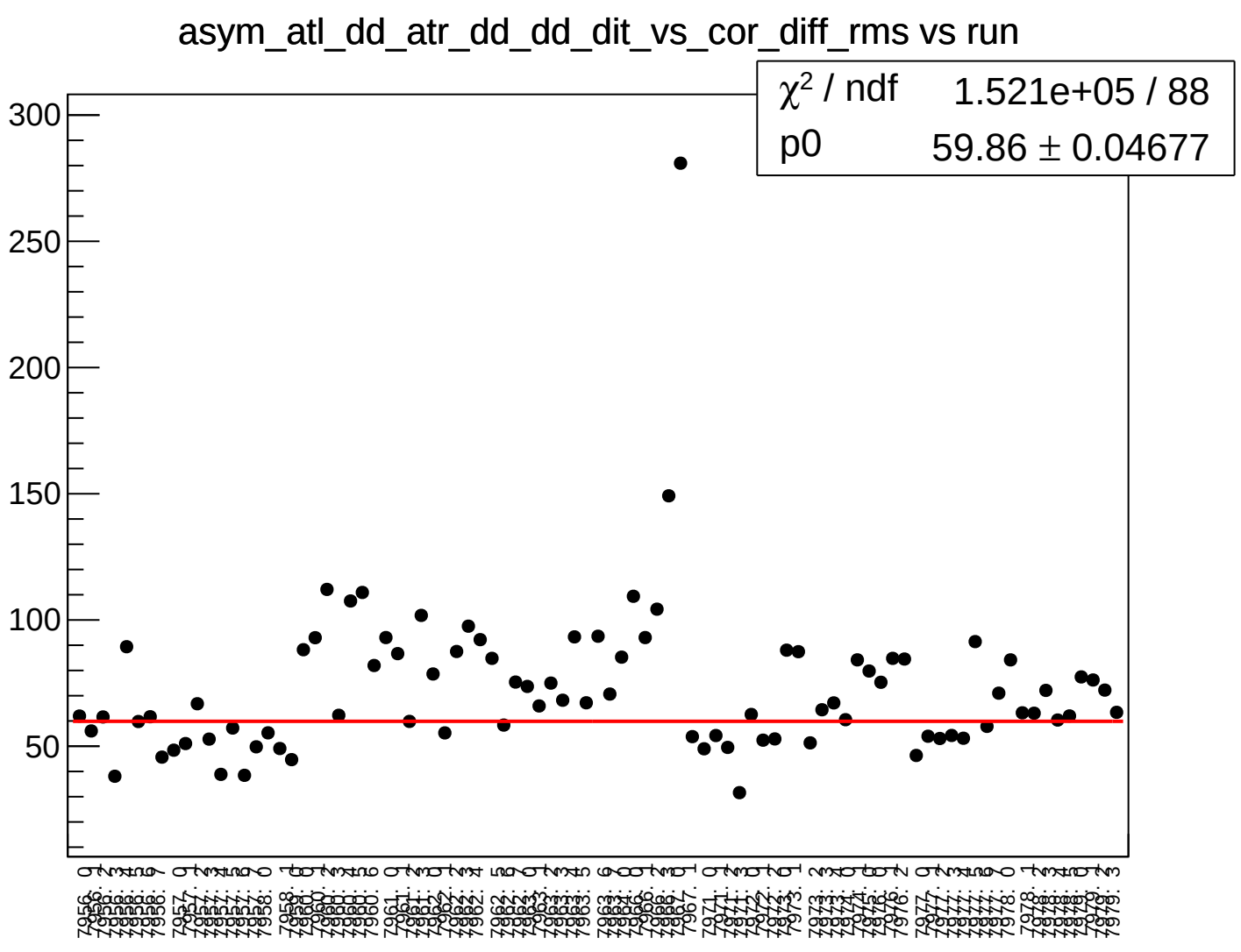

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1429 / 88
p0 1958 ± 1.464
2100
2050
2000
1950
1900
1850
1800
1750
1700

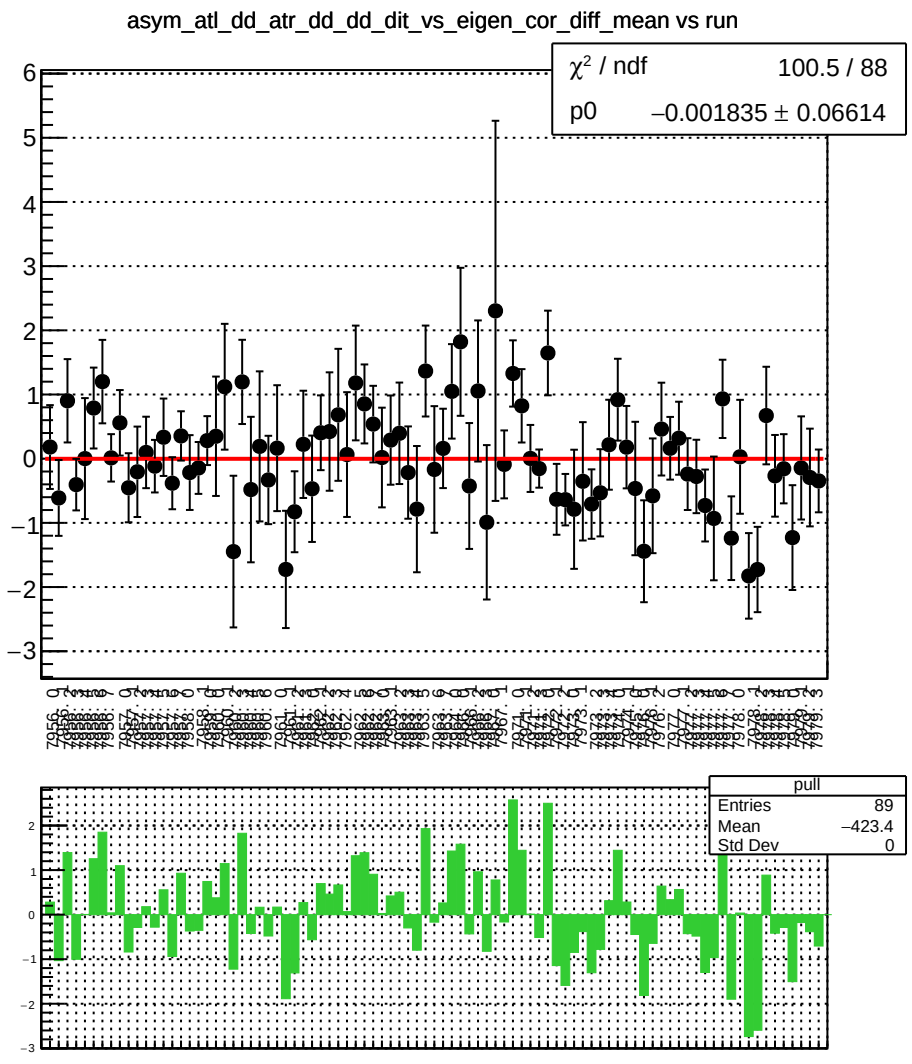

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107 / 88
p0 1.165e−13 ± 2.409e−13
pull
Entries 89
Mean −2468
Std Dev 0

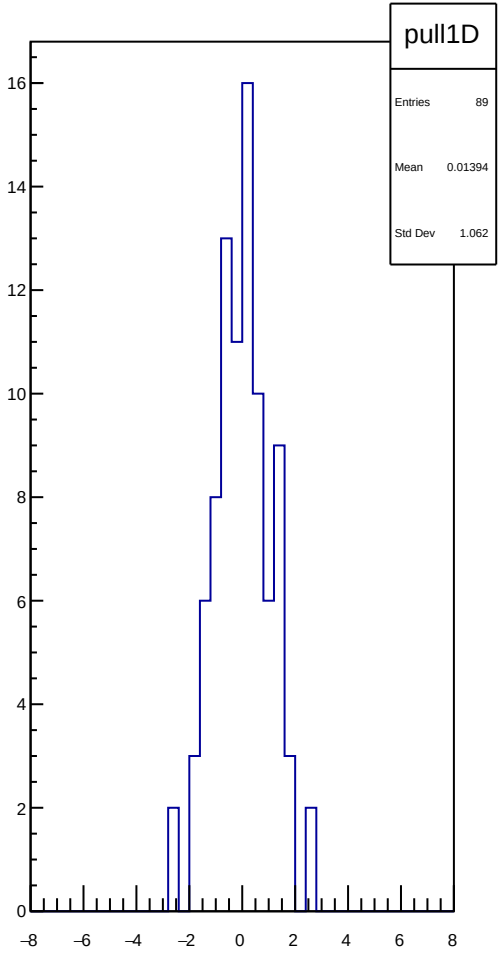

pull1D
Entries 89
Mean −0.001748
Std Dev 1.096

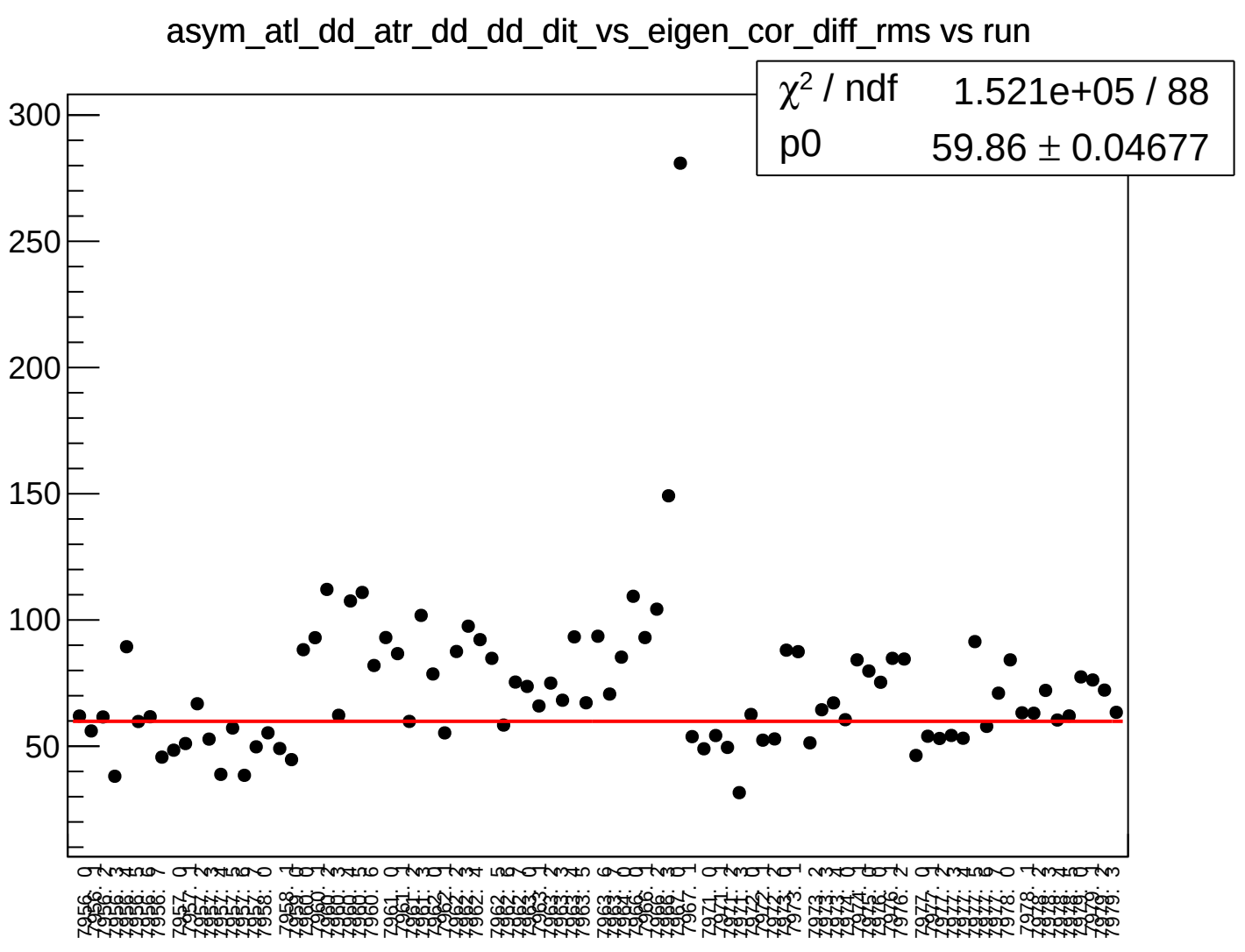

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.173e+06 / 88
p0 1.339e−10 ± 1.704e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

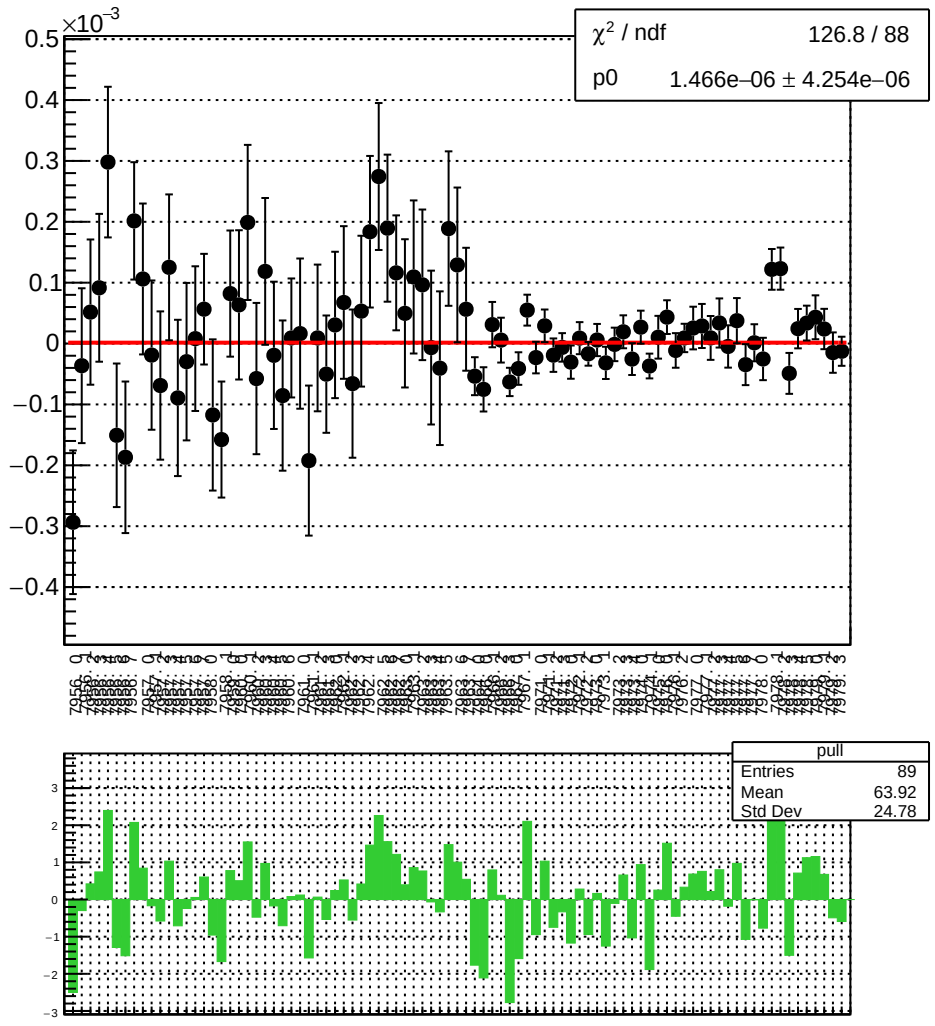

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 88
p0 −0.001835 ± 0.06614
pull
Entries 89
Mean −423.4
Std Dev 0
pull1D
Entries 89
Mean 0.01394
Std Dev 1.062

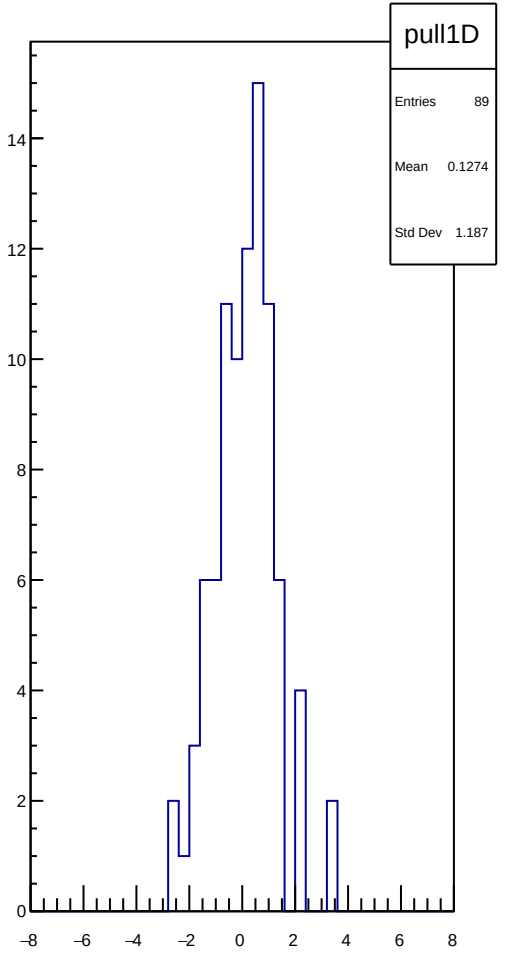

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 88
p0 59.86 ± 0.04677
300
250
200
150
100
50

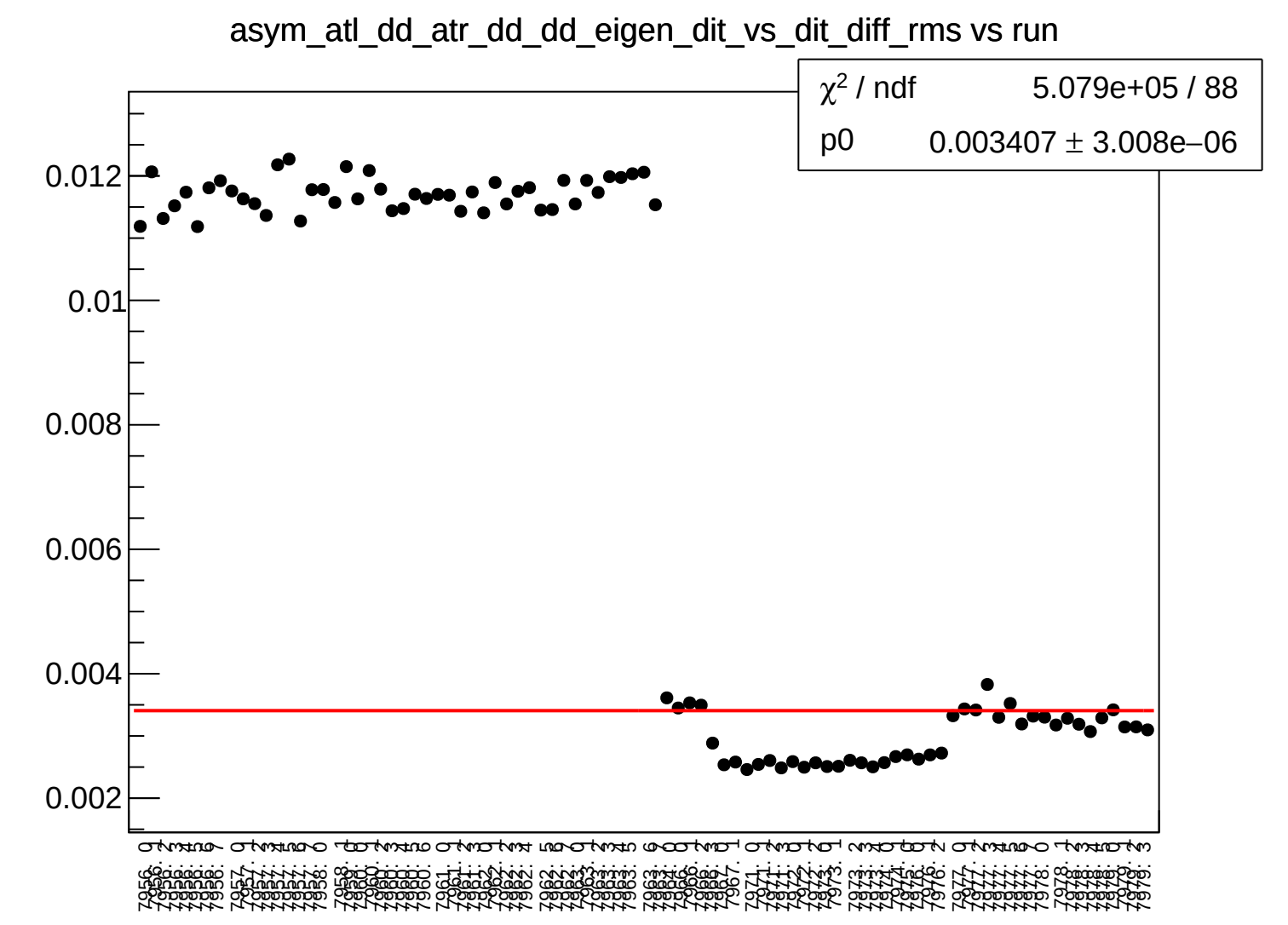

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 88
p0 −0.001835 ± 0.06614
pull
Entries 89
Mean −423.4
Std Dev 0

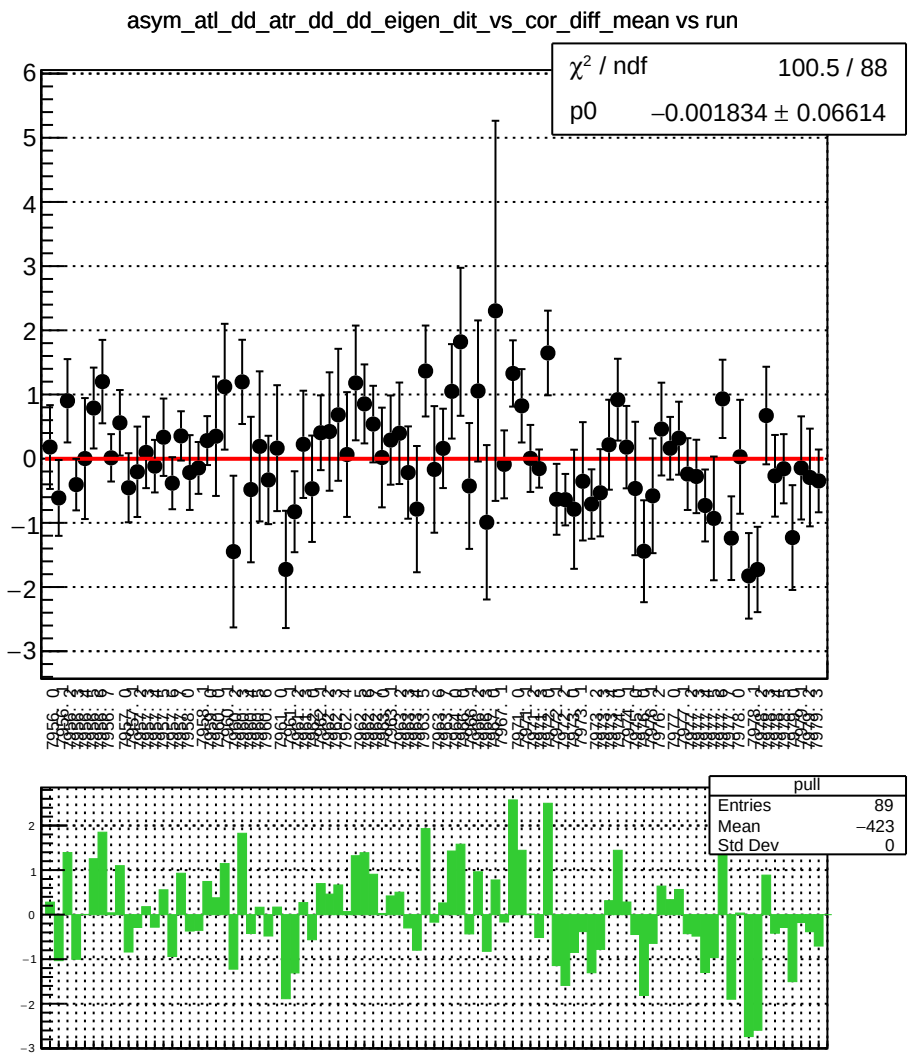

pull1D
Entries 89
Mean 0.01394
Std Dev 1.062

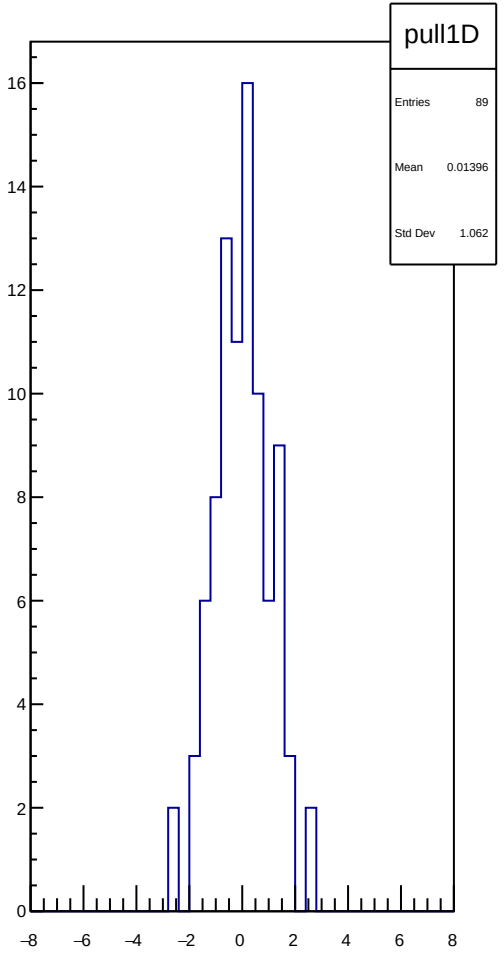

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 88
p0 59.86 ± 0.04677
300
250
200
150
100
50

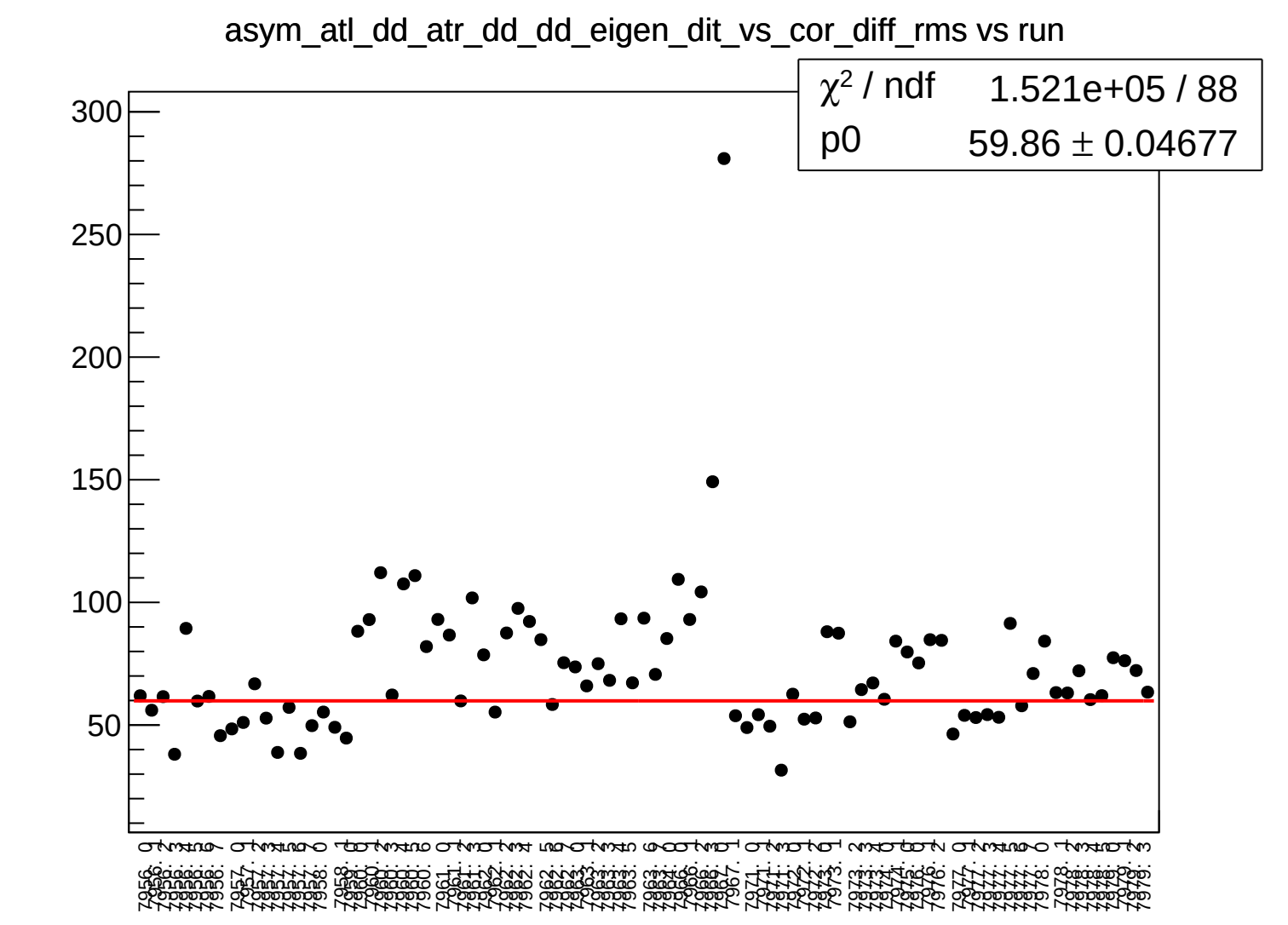

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 126.8 / 88
p0 1.466e−06 ± 4.254e−06
pull
Entries 89
Mean 63.92
Std Dev 24.78

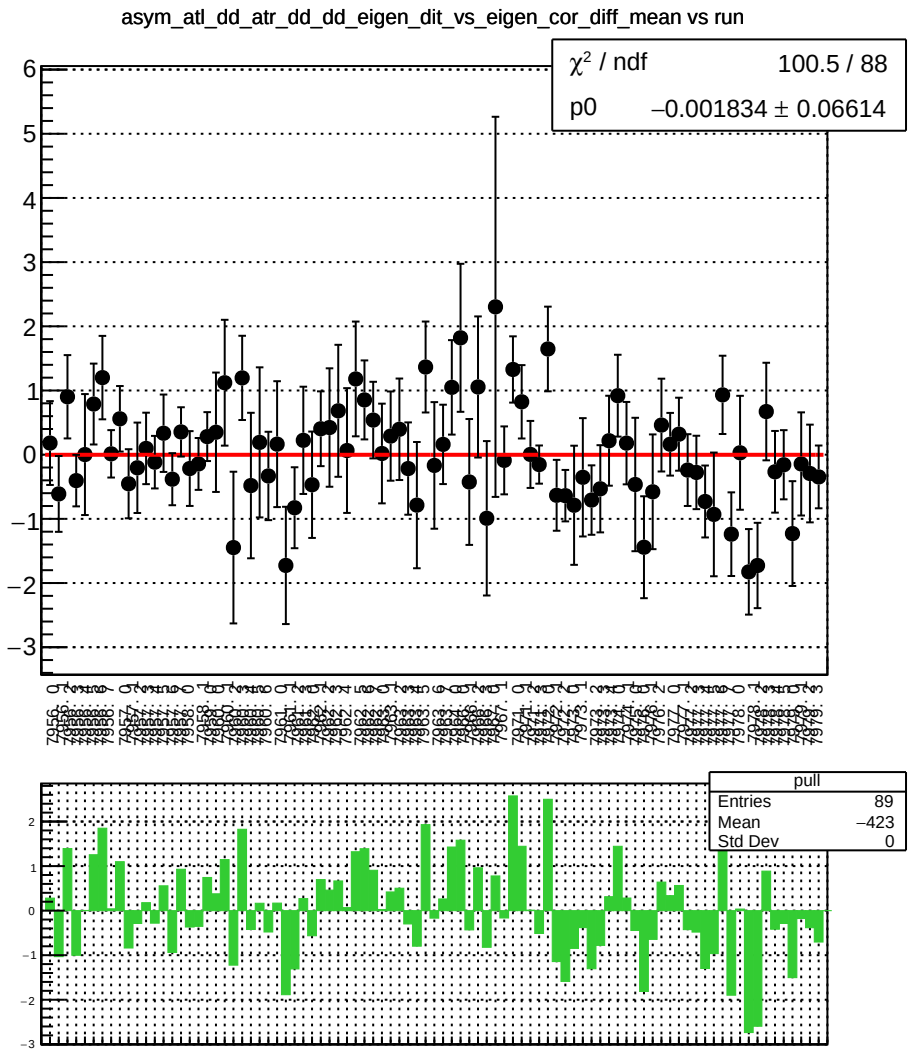

pull1D
Entries 89
Mean 0.1274
Std Dev 1.187

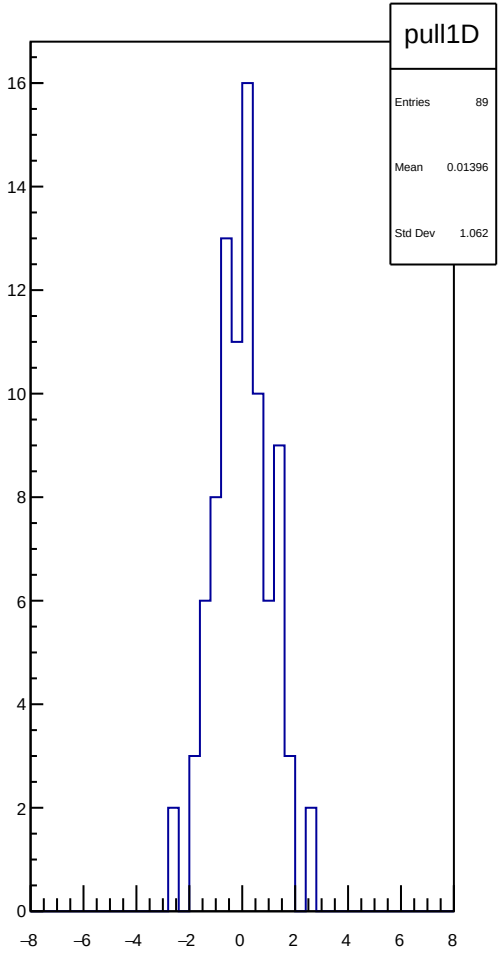

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.079e+05 / 88
p0 0.003407 ± 3.008e−06
0.012
0.01
0.008
0.006
0.004
0.002

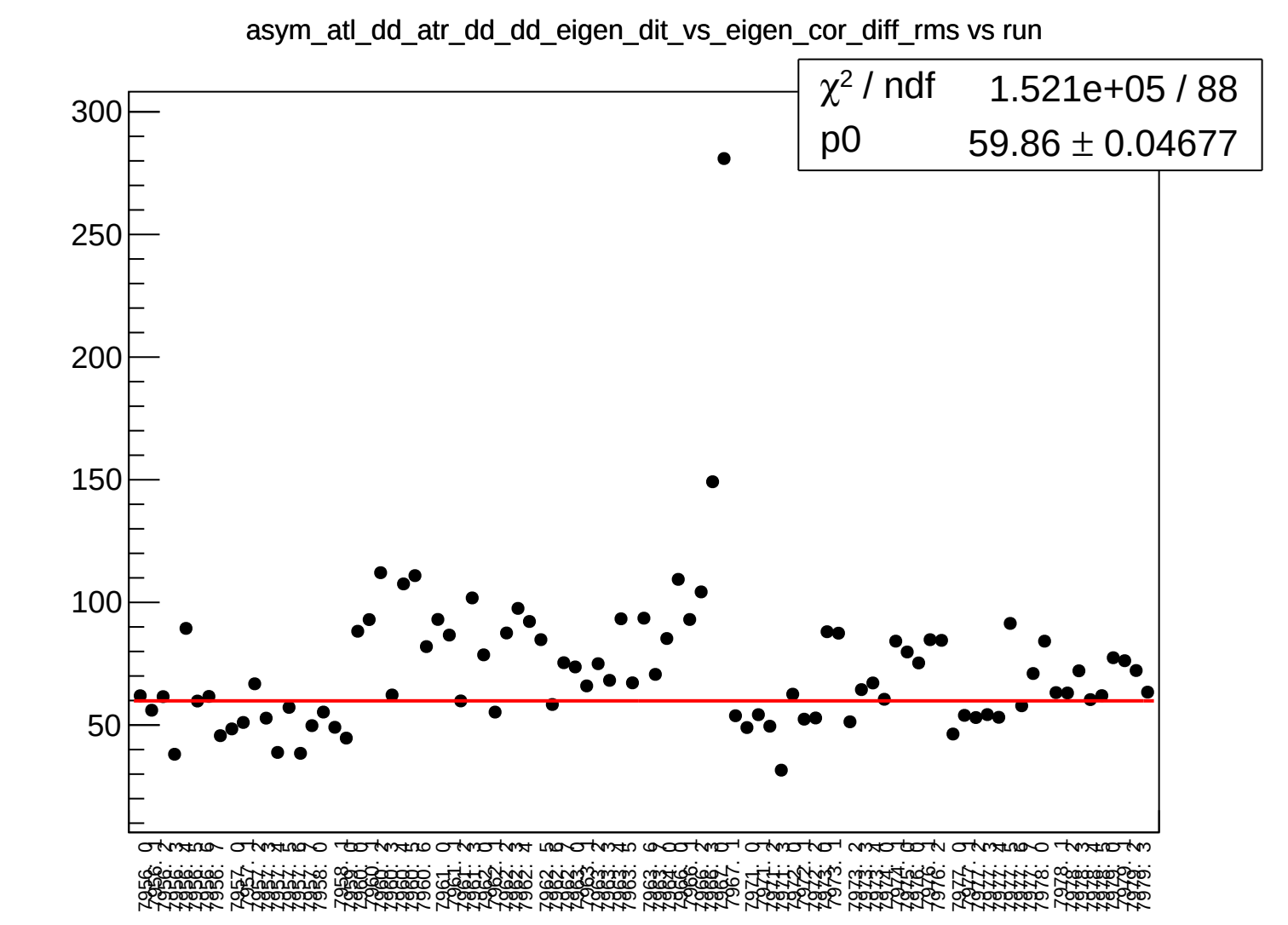

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 88
p0 −0.001834 ± 0.06614
pull
Entries 89
Mean −423
Std Dev 0

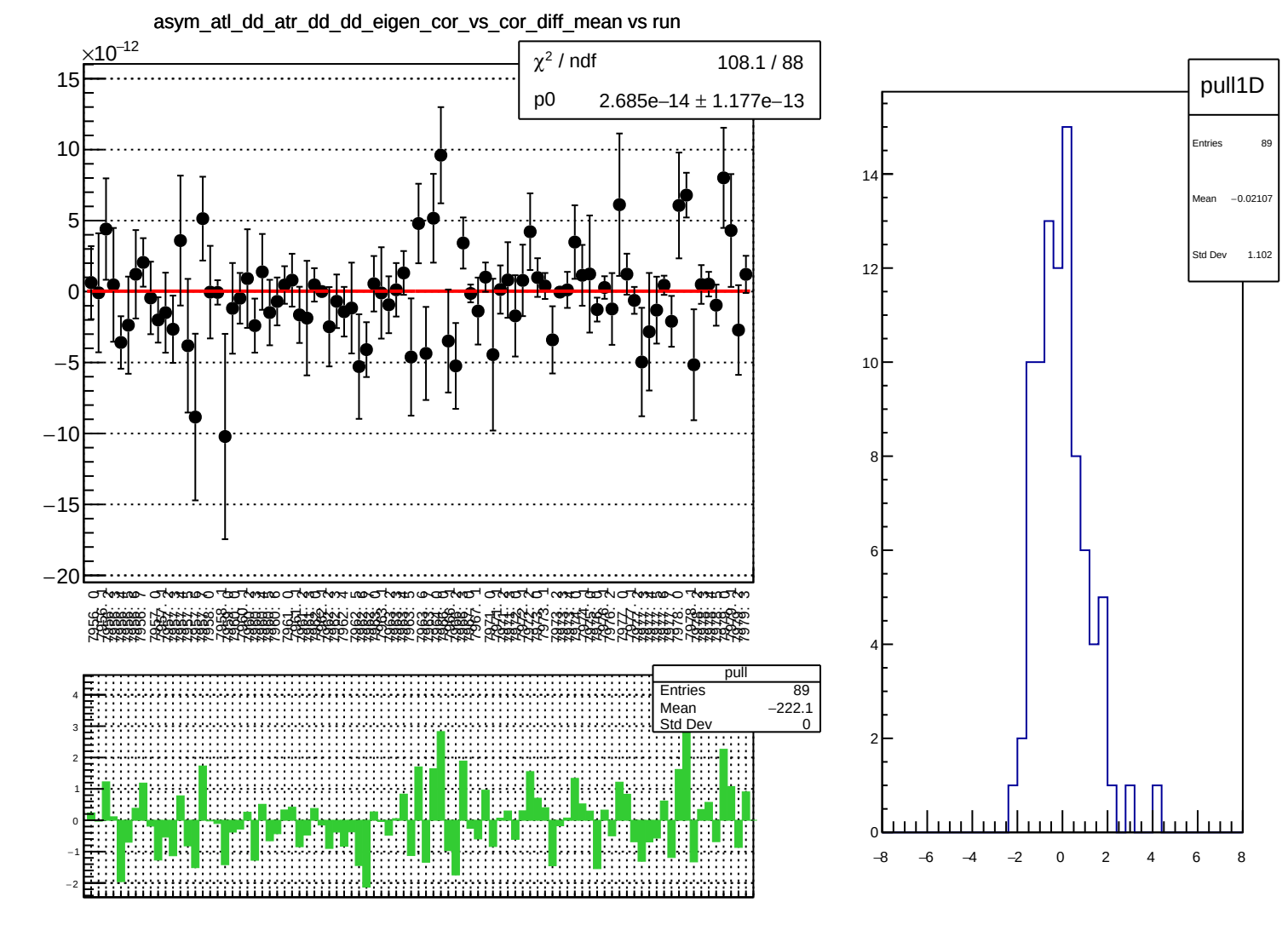

pull1D
Entries 89
Mean 0.01396
Std Dev 1.062

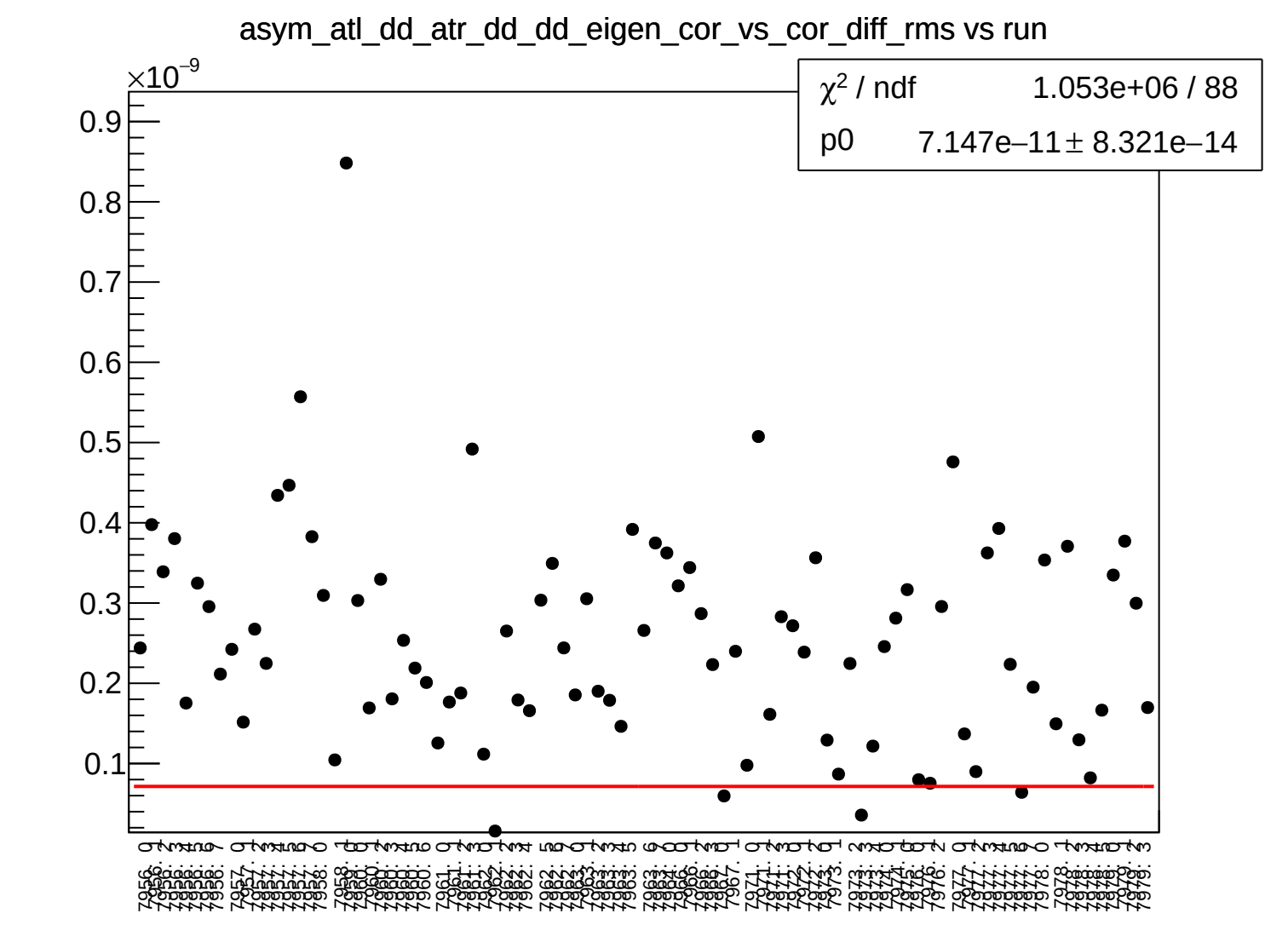

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 88
p0 59.86 ± 0.04677
300
250
200
150
100
50

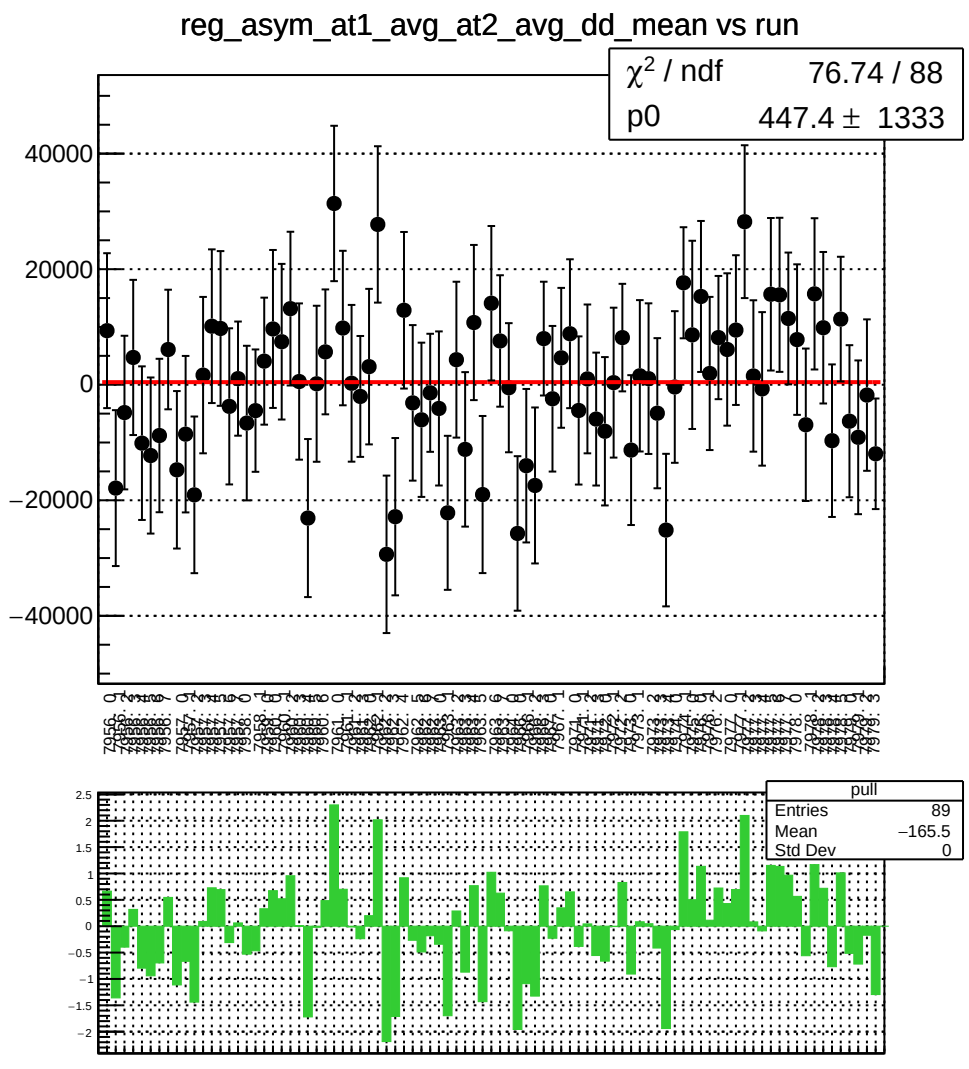

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 88
p0 −0.001834 ± 0.06614
pull
Entries 89
Mean −423
Std Dev 0

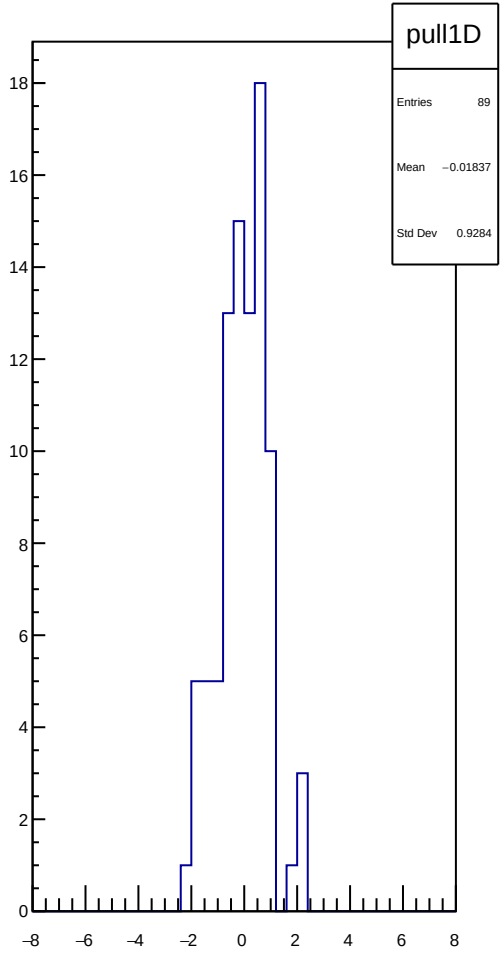

pull1D
Entries 89
Mean 0.01396
Std Dev 1.062

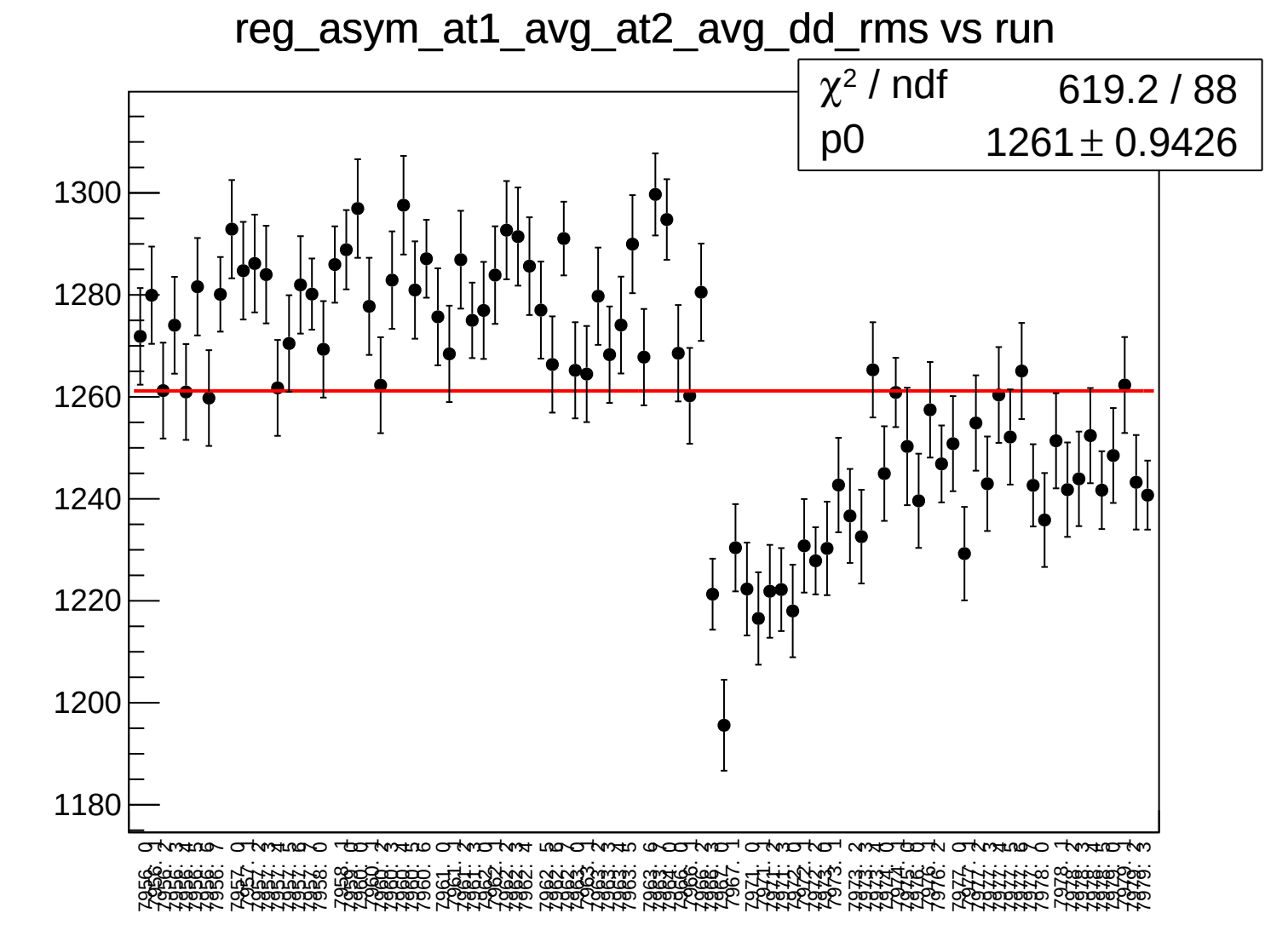

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 88
p0 59.86 ± 0.04677
300
250
200
150
100
50

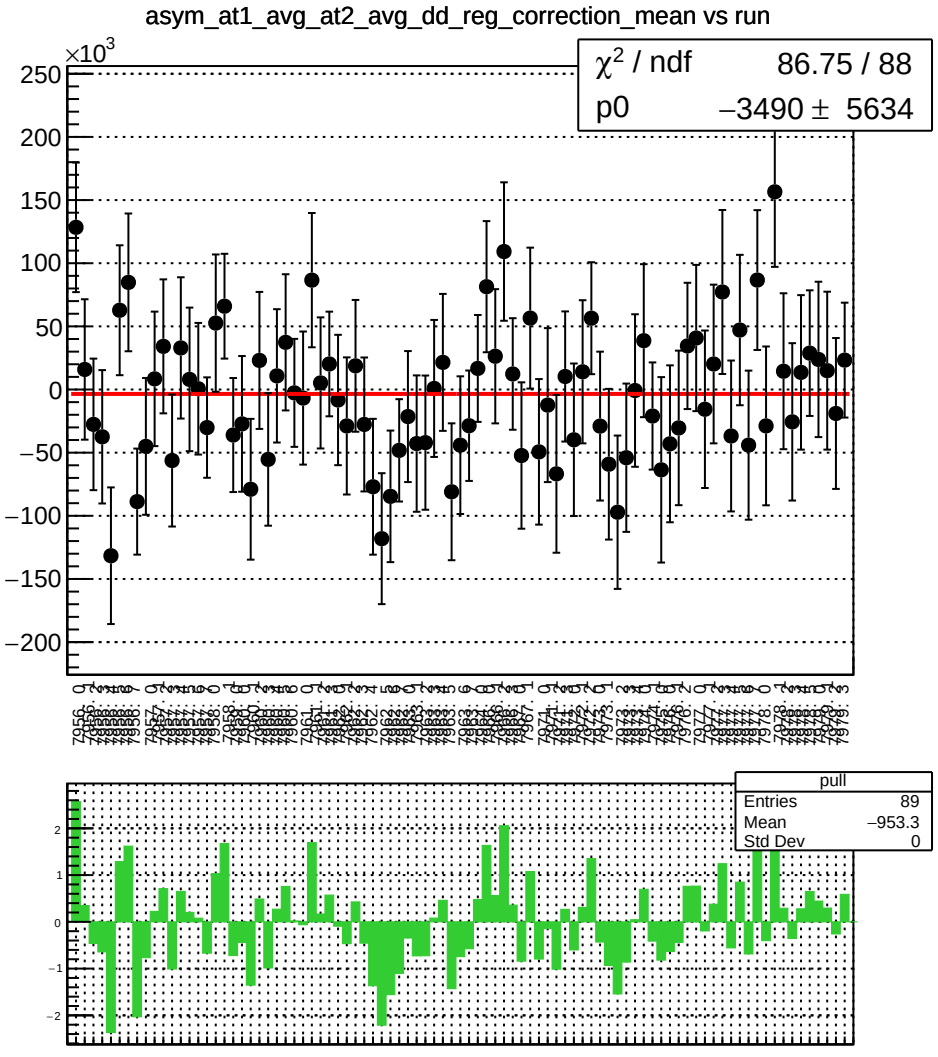

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.1 / 88
p0 2.685e−14 ± 1.177e−13
pull
Entries 89
Mean −222.1
Std Dev 0
pull1D
Entries 89
Mean −0.02107
Std Dev 1.102

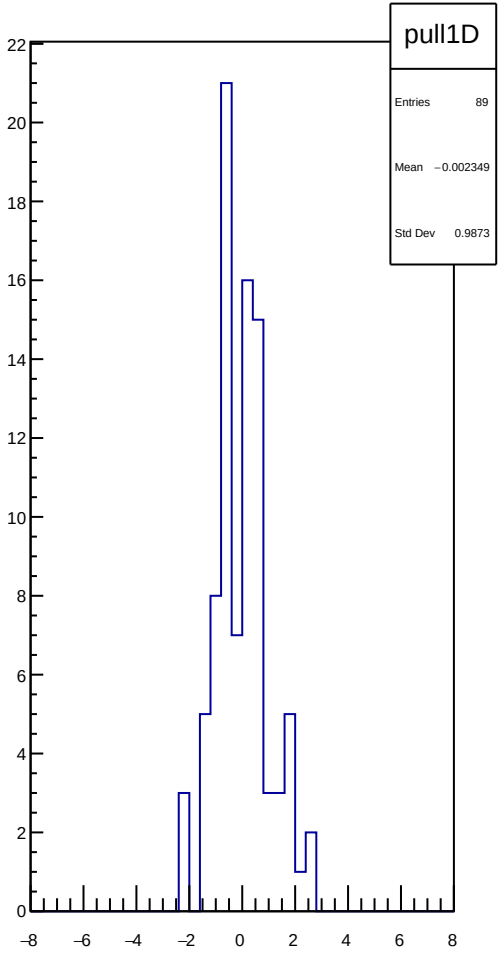

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.053e+06 / 88
p0 7.147e−11 ± 8.321e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

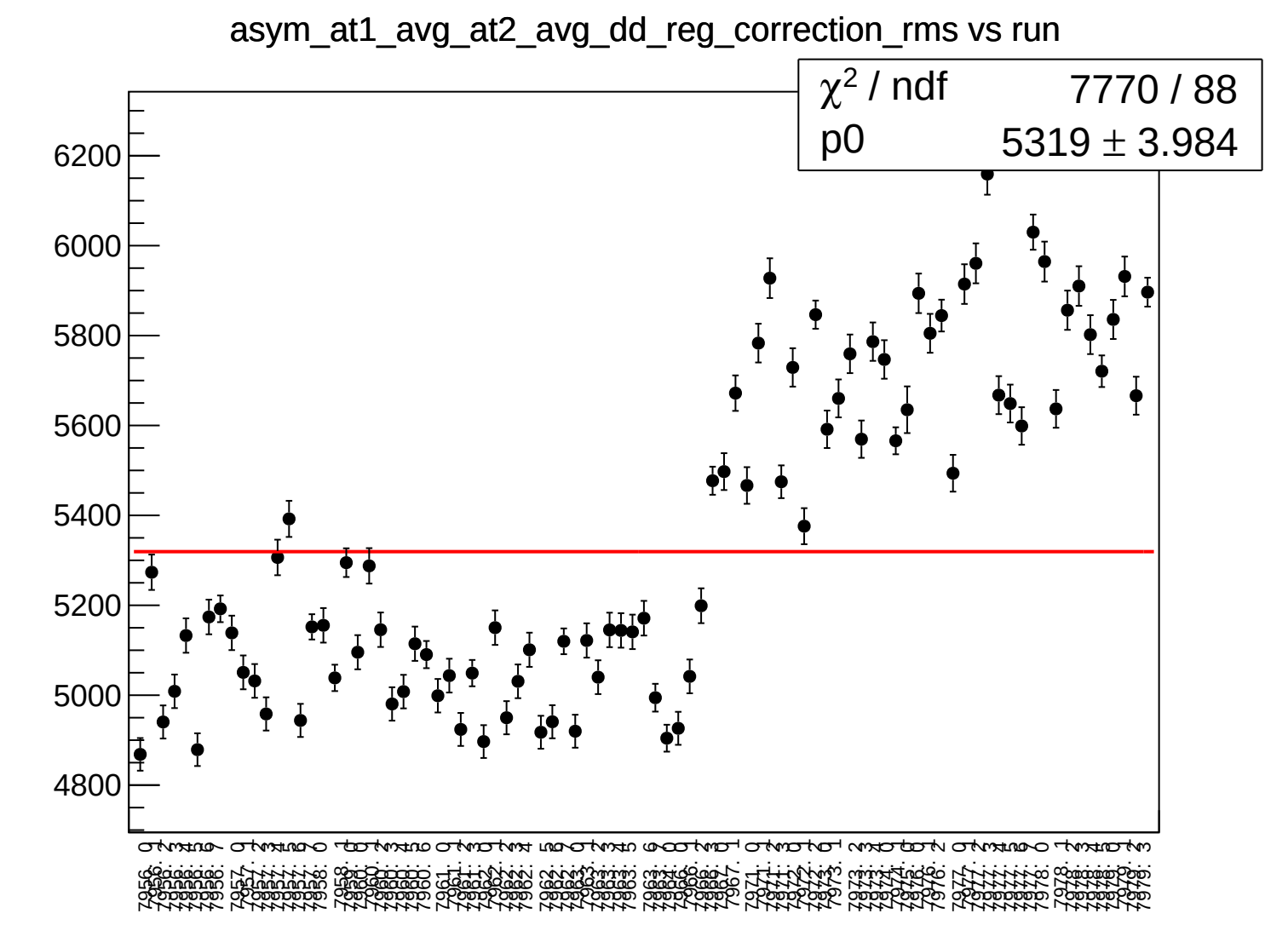

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.74 / 88
p0 447.4 ± 1333
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

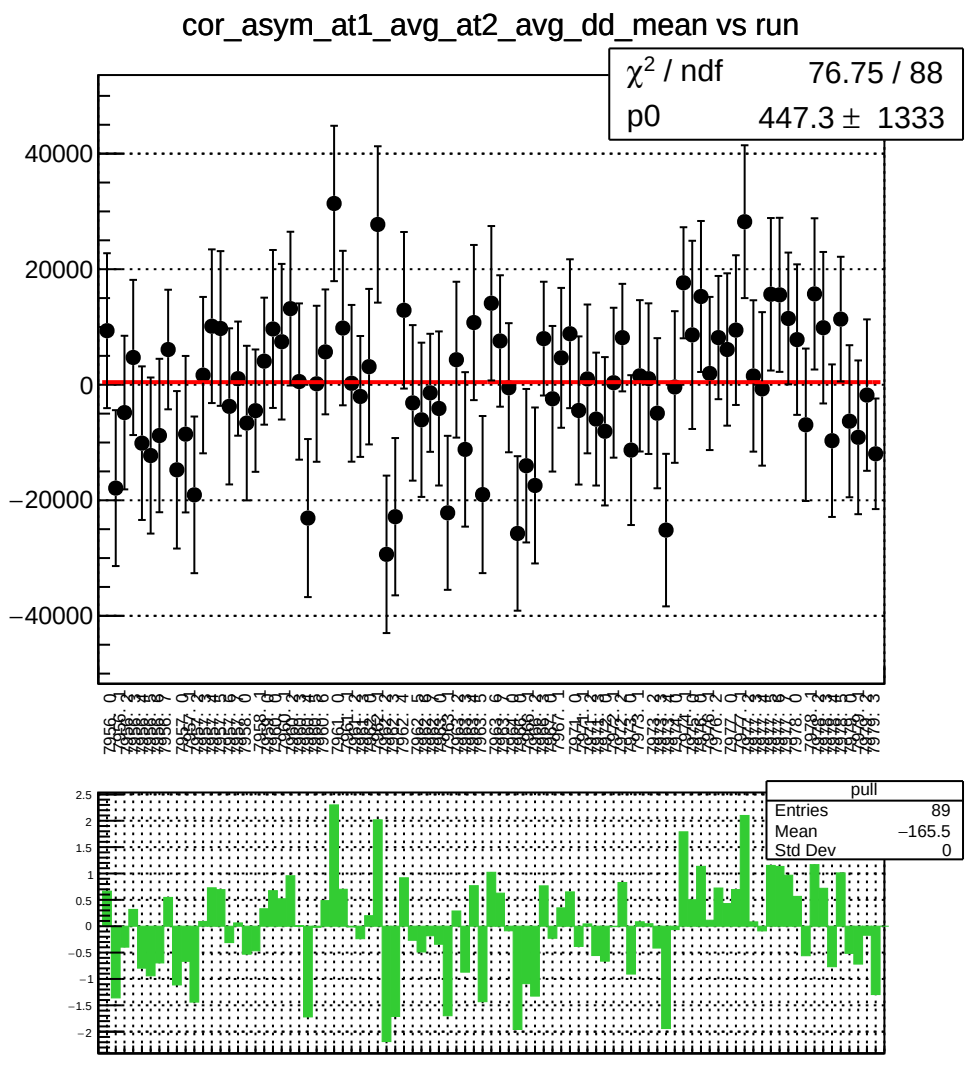

pull1D
Entries 89
Mean −0.01837
Std Dev 0.9284
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

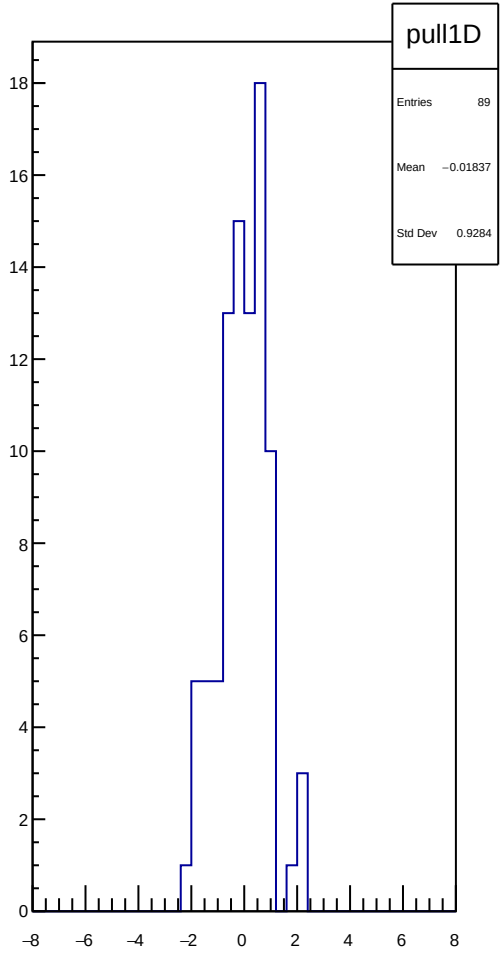

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 619.2 / 88
p0 1261 ± 0.9426
1300
1280
1260
1240
1220
1200
1180

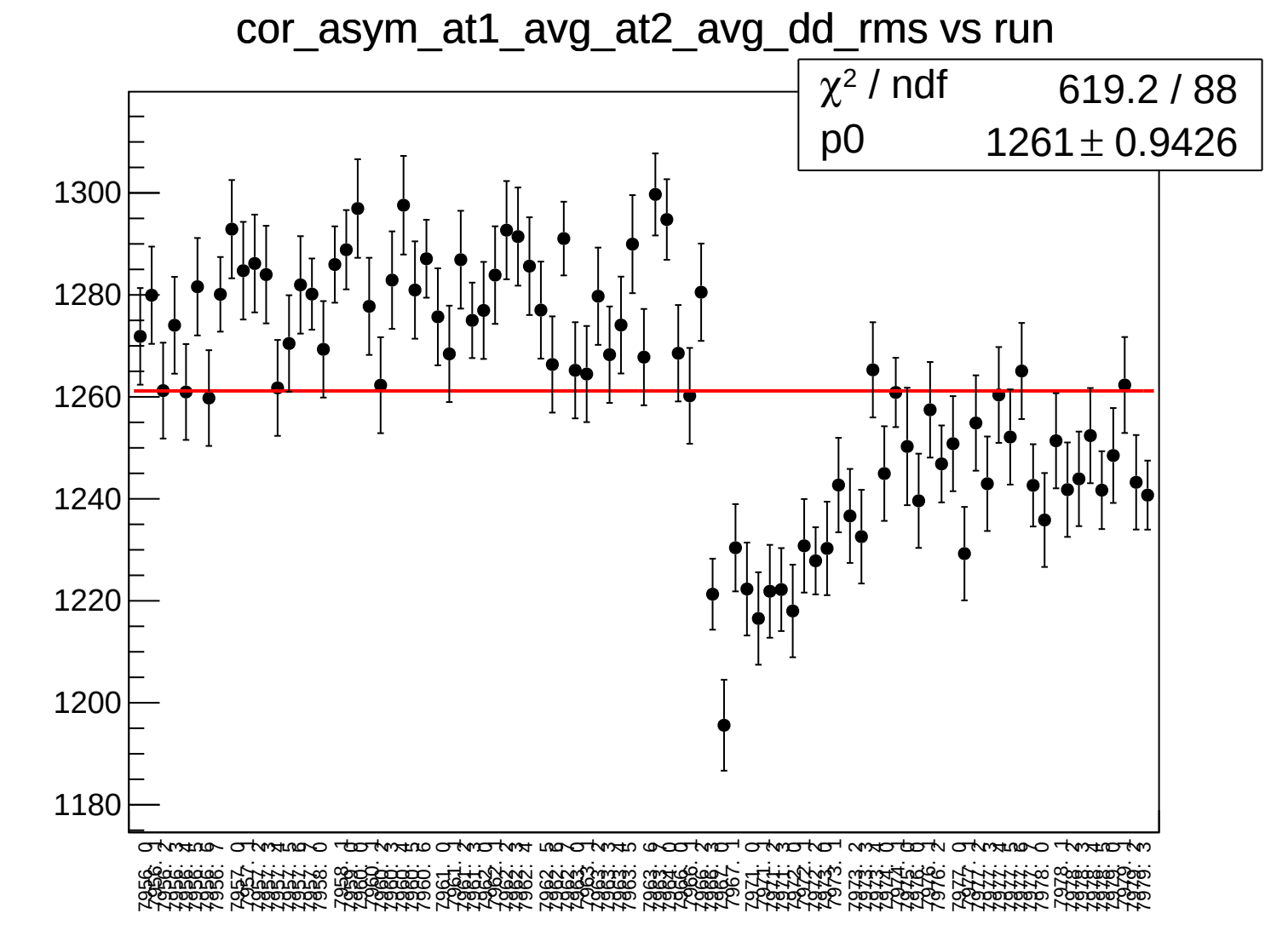

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.75 / 88
p0 −3490 ± 5634
pull
Entries 89
Mean −953.3
Std Dev 0

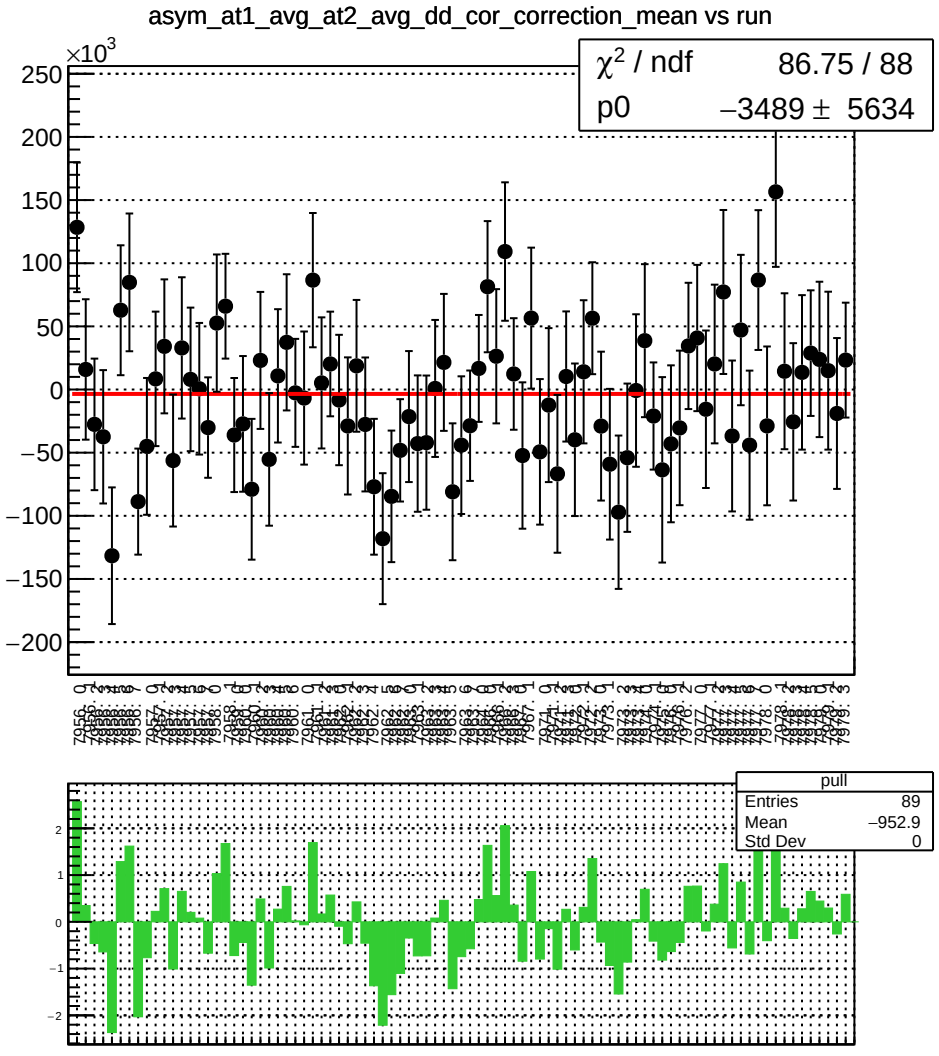

pull1D
Entries 89
Mean −0.002349
Std Dev 0.9873

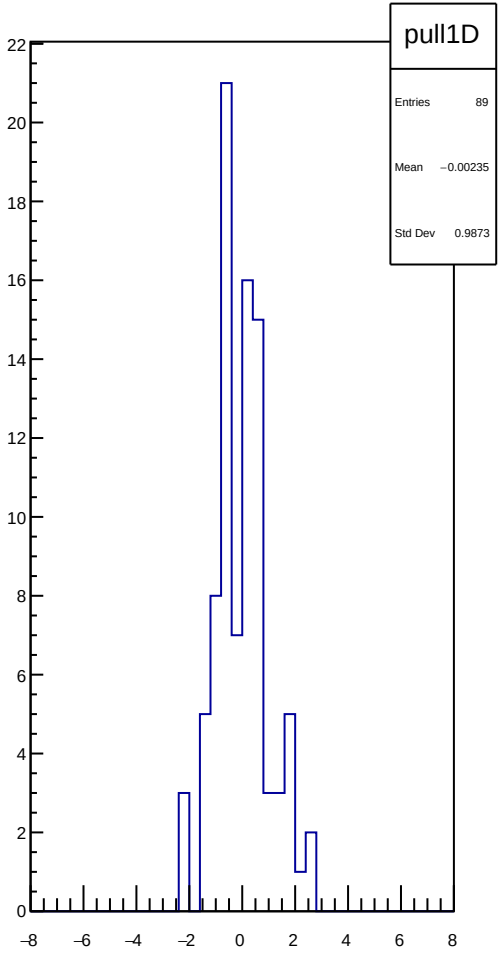

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
$\chi^2$ / ndf 7770 / 88
p0 5319 ± 3.984
6200
6000
5800
5600
5400
5200
5000
4800

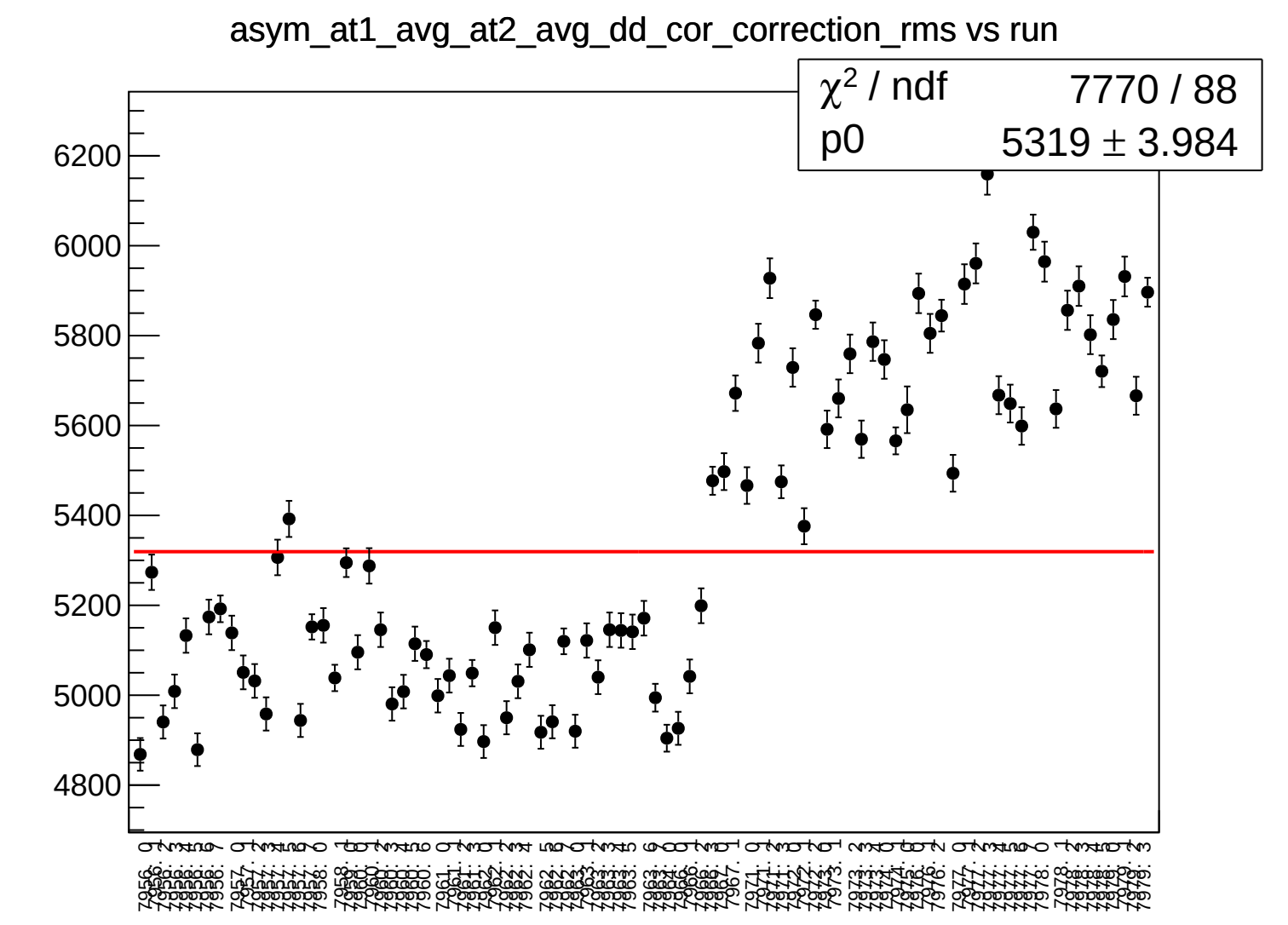

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.75 / 88
p0 447.3 ± 1333
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

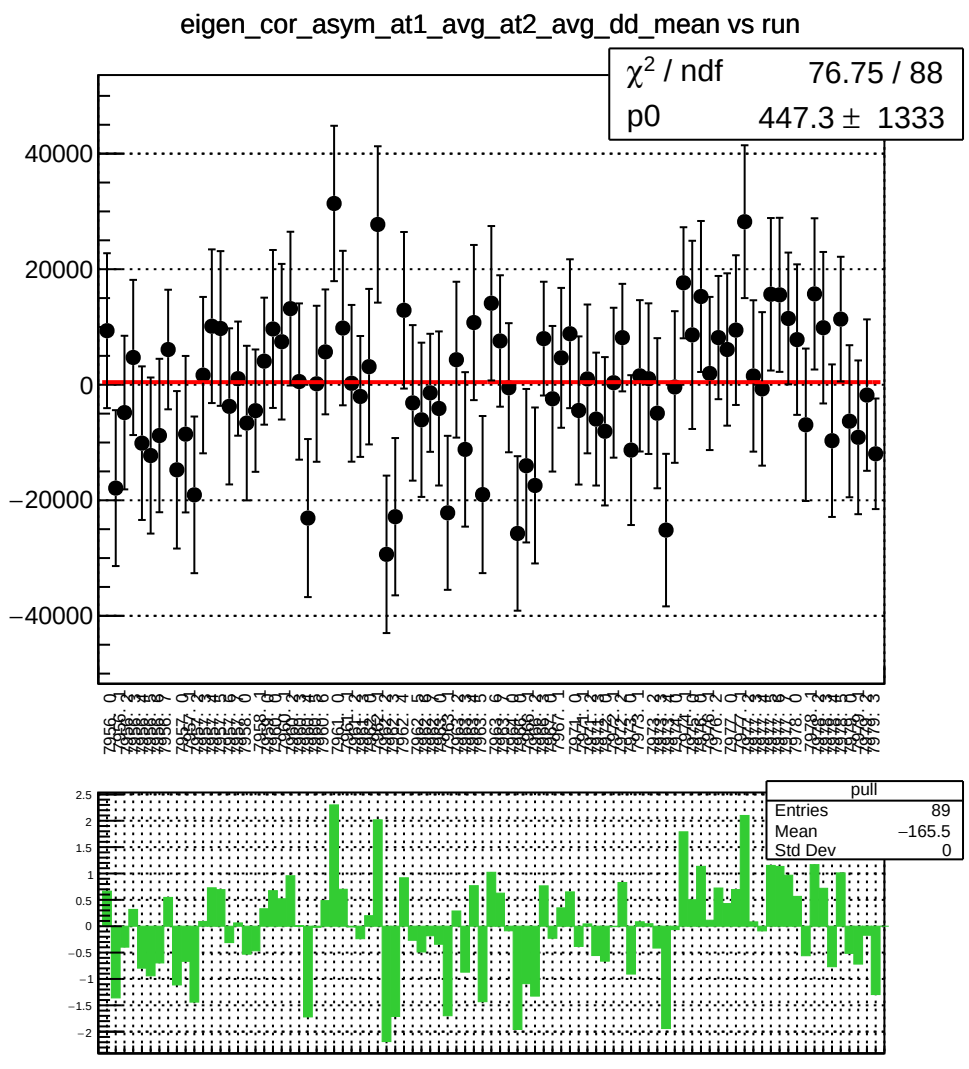

pull1D
Entries 89
Mean −0.01837
Std Dev 0.9284
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

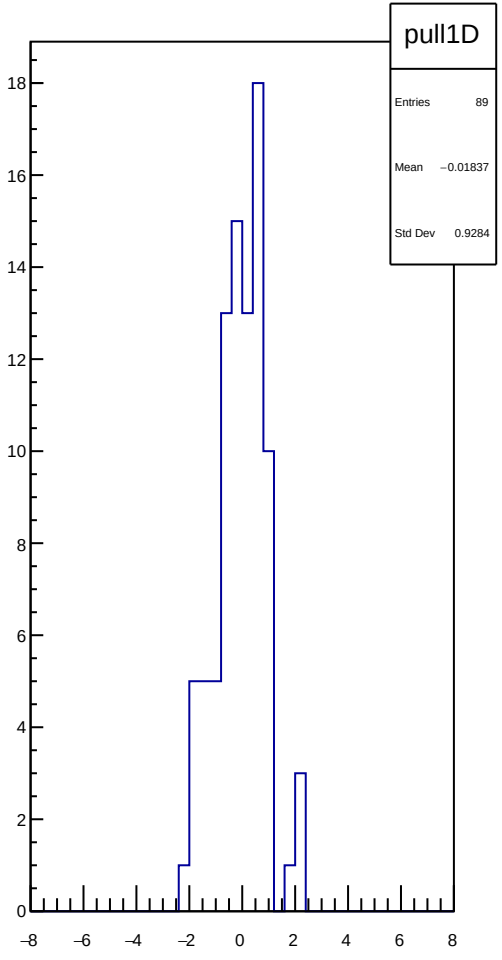

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 619.2 / 88
p0 1261 ± 0.9426
1300
1280
1260
1240
1220
1200
1180

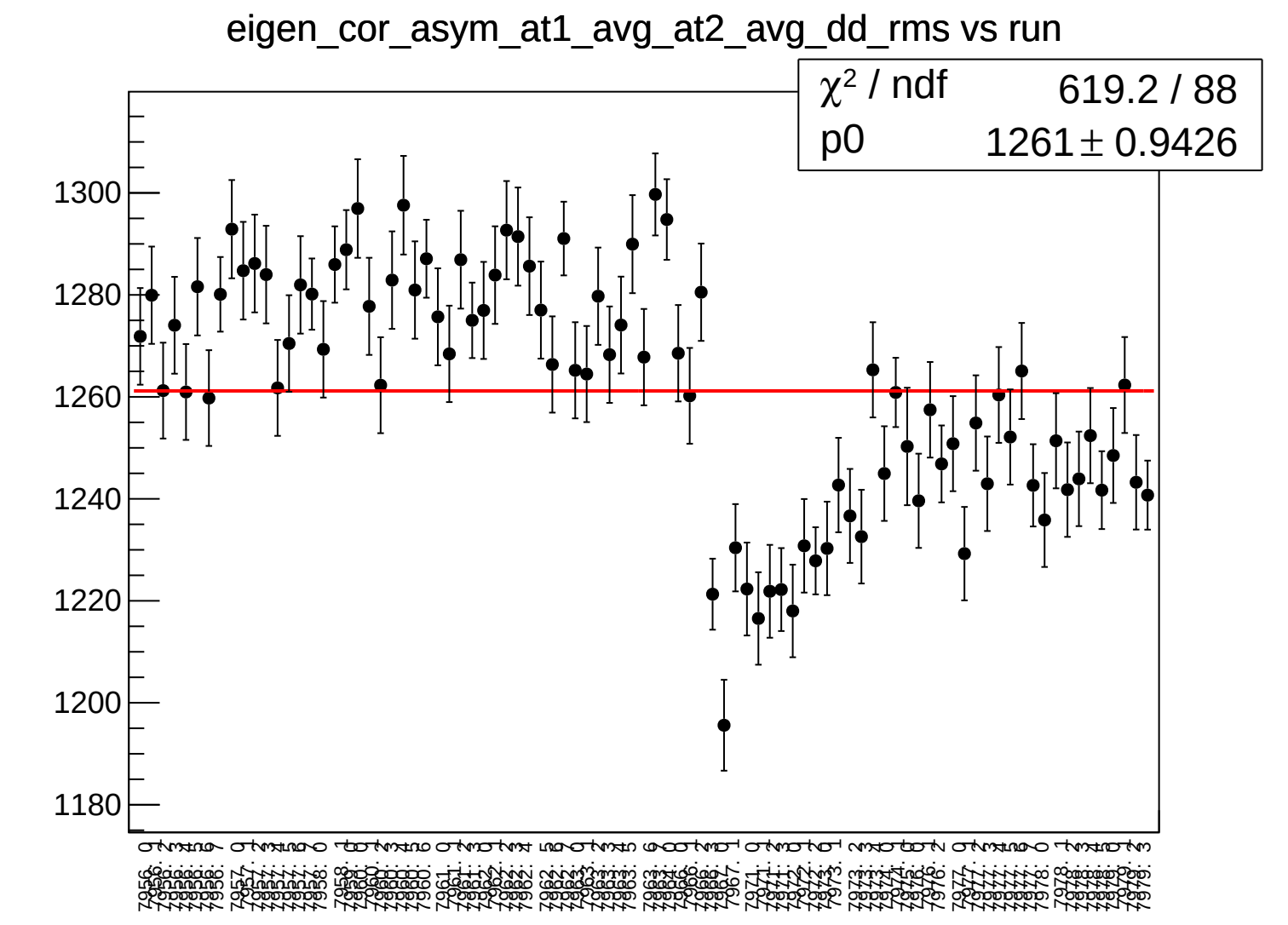

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.75 / 88
p0 −3489 ± 5634
pull
Entries 89
Mean −952.9
Std Dev 0

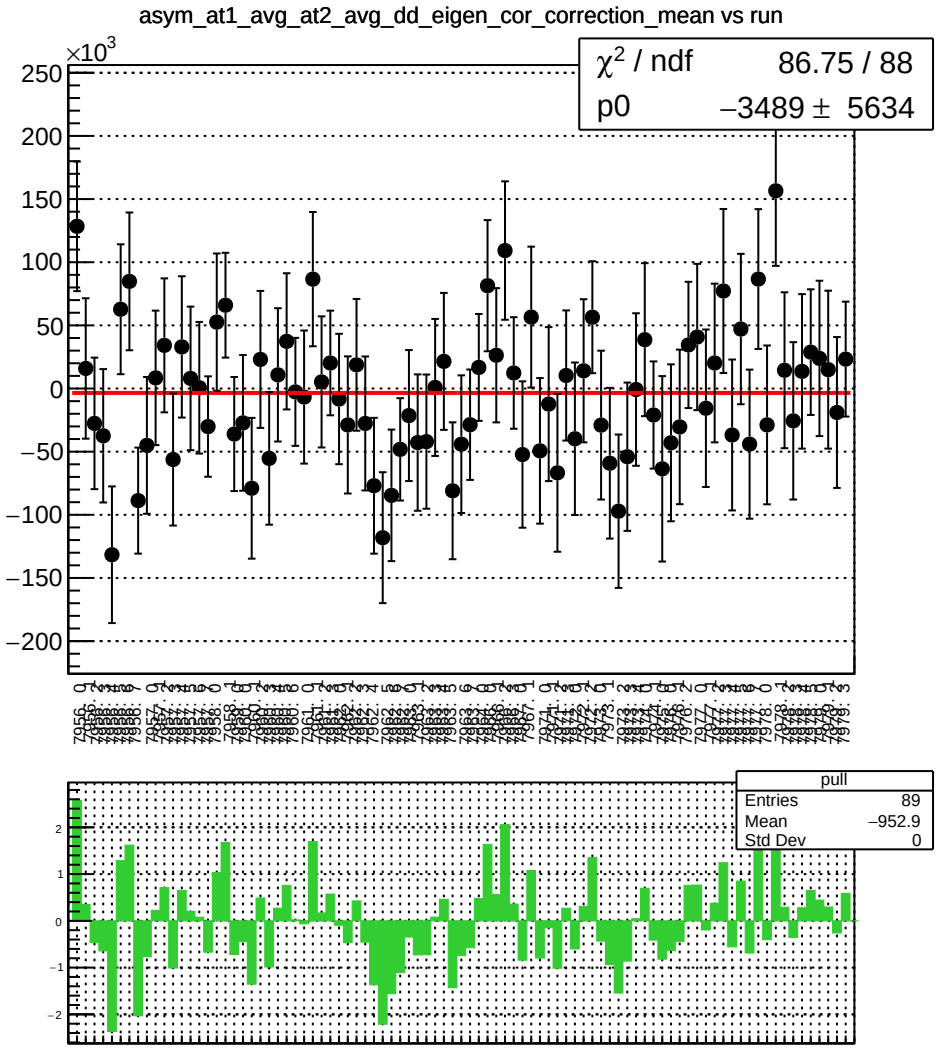

pull1D
Entries 89
Mean −0.00235
Std Dev 0.9873

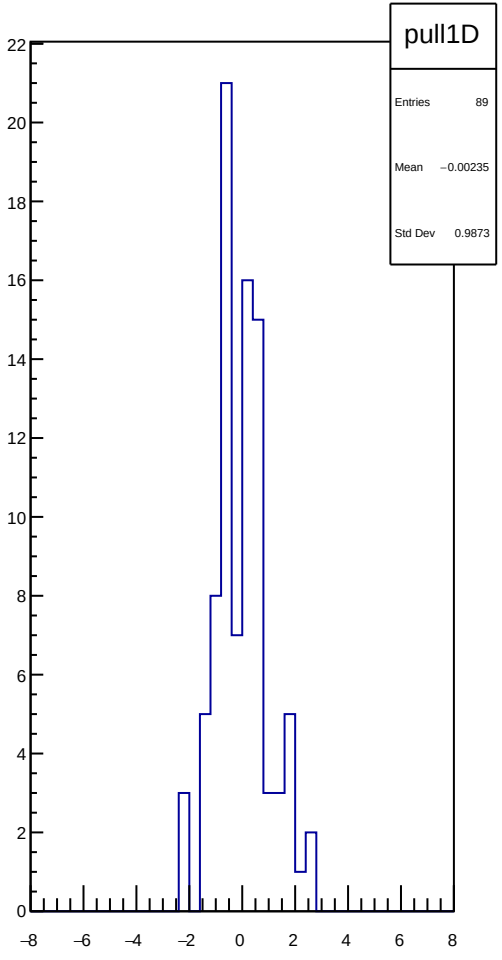

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 7770 / 88
p0 5319 ± 3.984
6200
6000
5800
5600
5400
5200
5000
4800

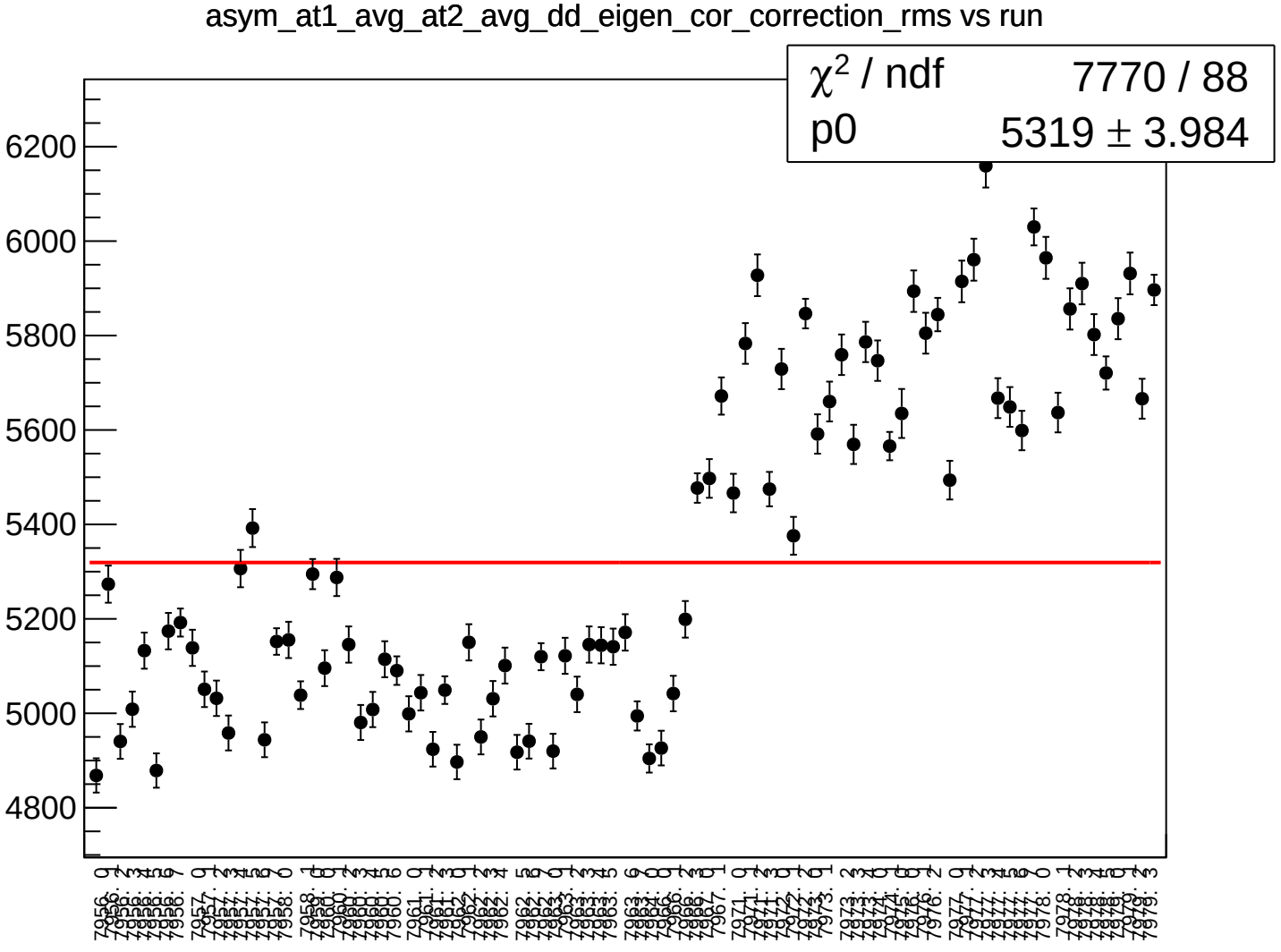

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.75 / 88
p0 447.3 ± 1333
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

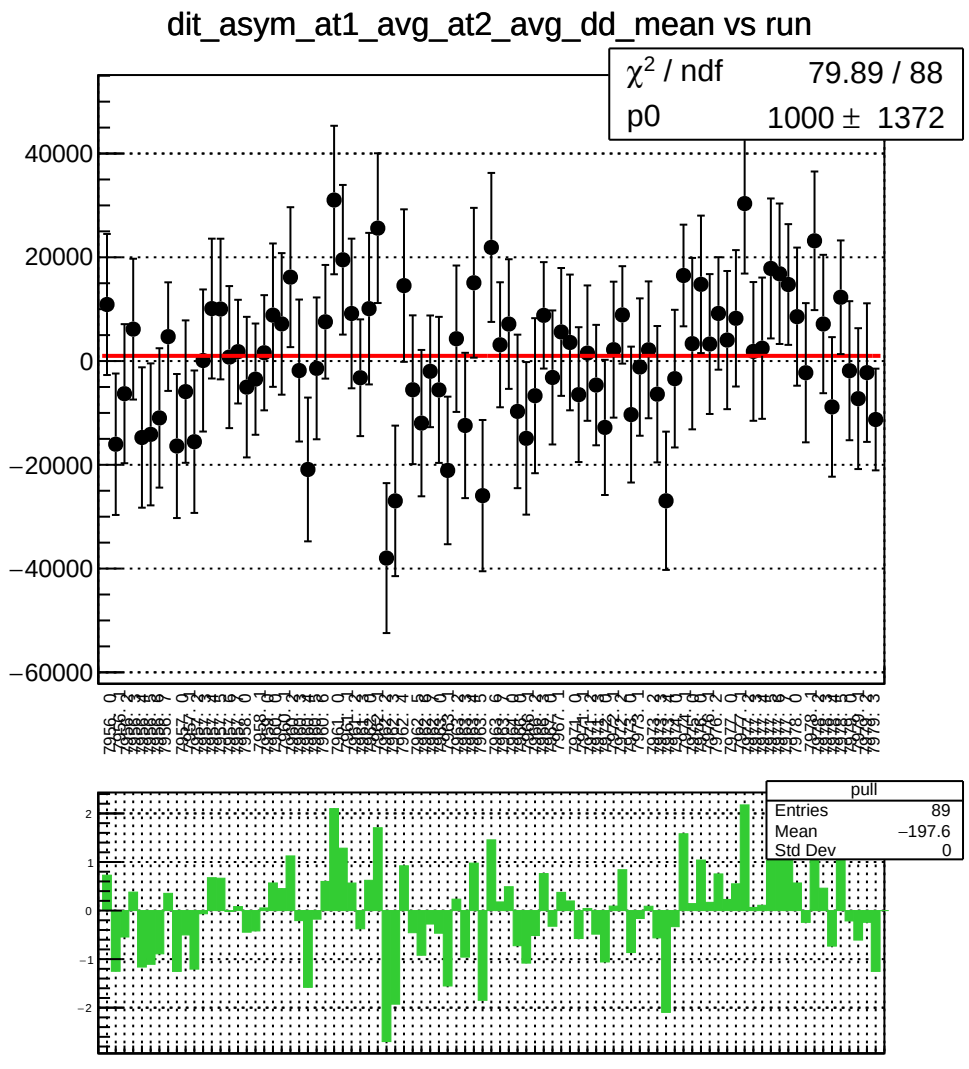

pull1D
Entries 89
Mean −0.01837
Std Dev 0.9284
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

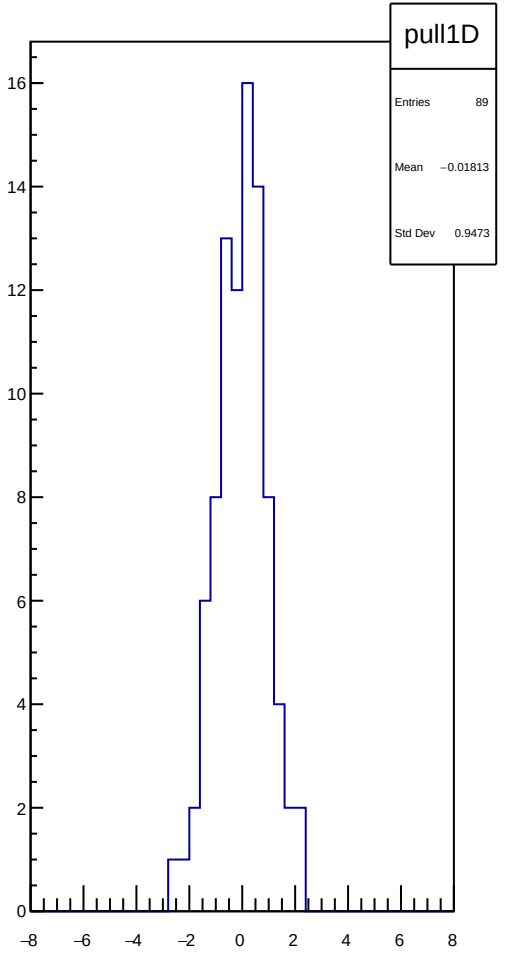

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 619.2 / 88
p0 1261 ± 0.9426
1300
1280
1260
1240
1220
1200
1180

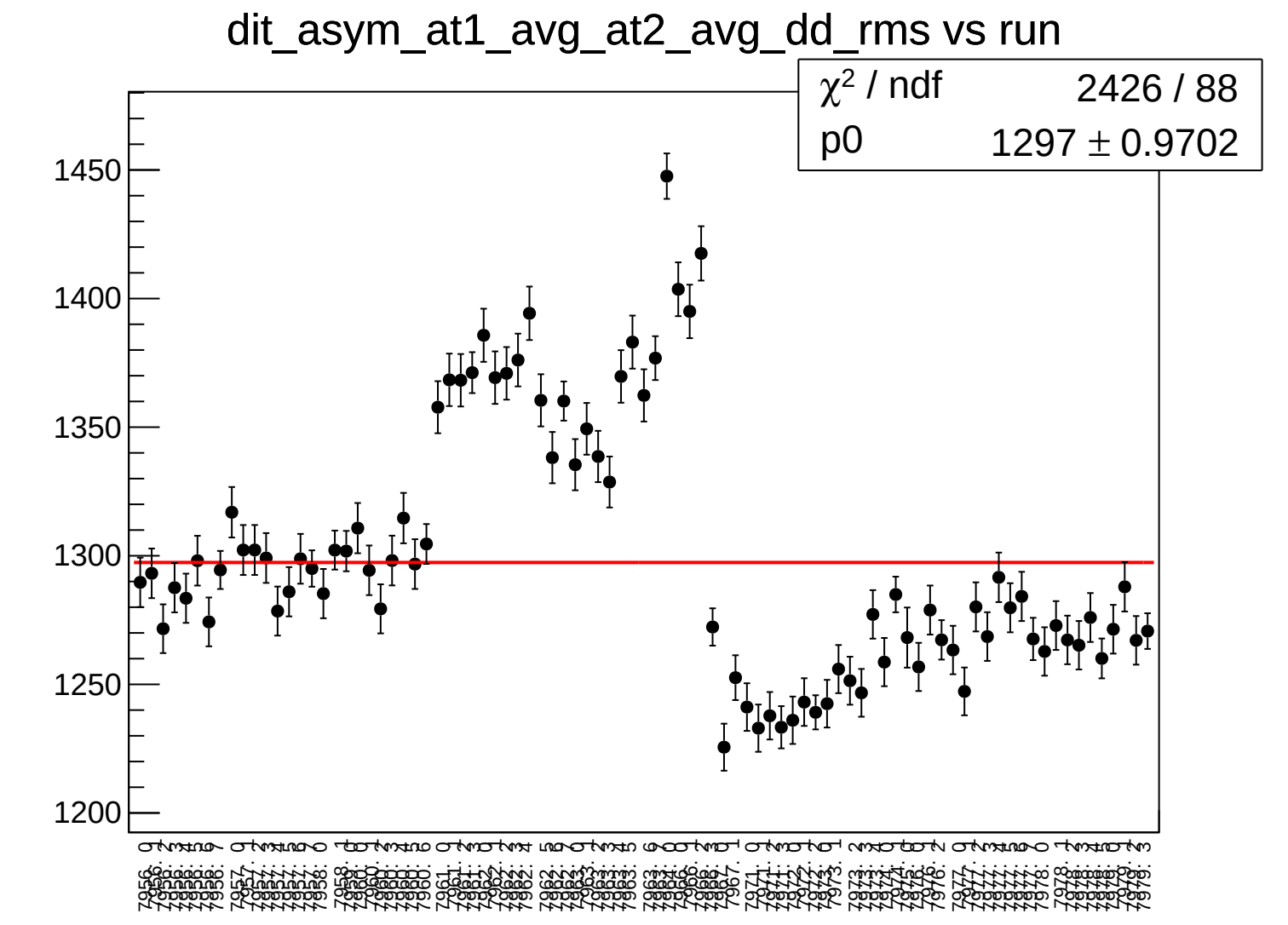

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.75 / 88
p0 −3489 ± 5634
pull
Entries 89
Mean −952.9
Std Dev 0

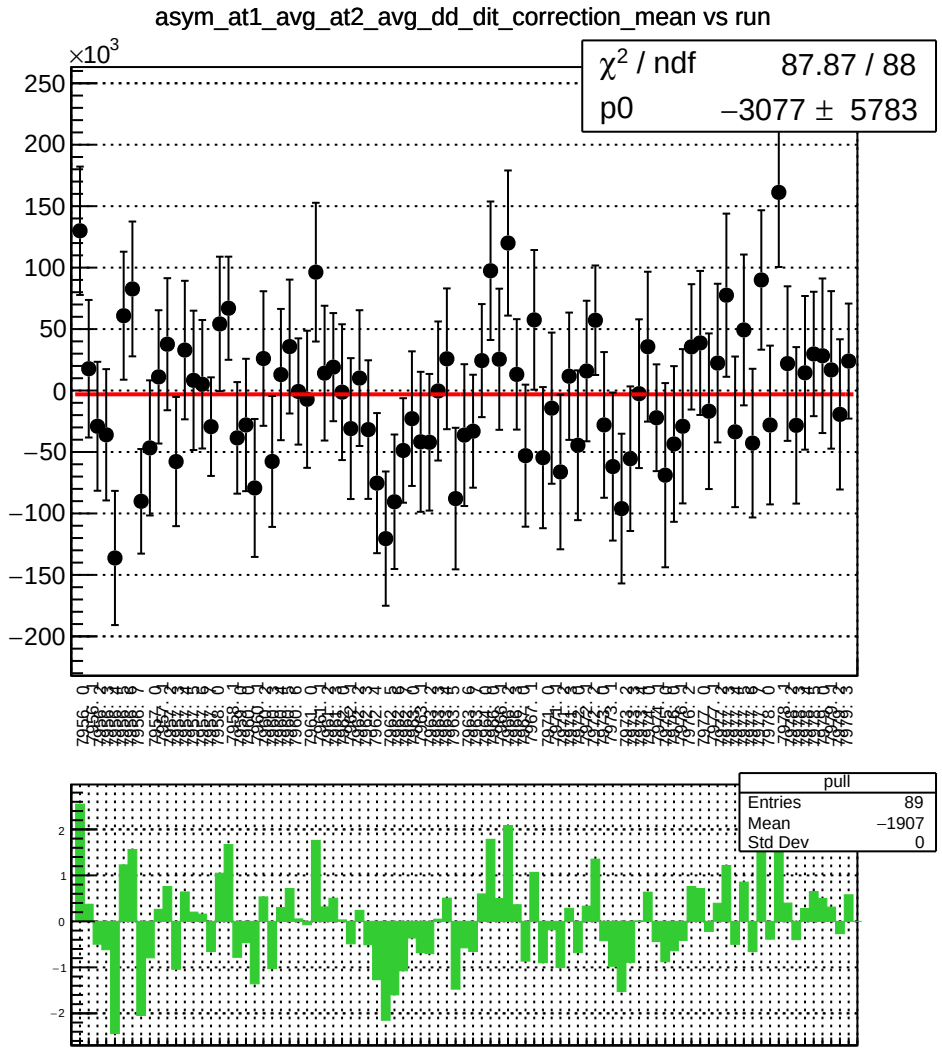

pull1D
Entries 89
Mean −0.00235
Std Dev 0.9873

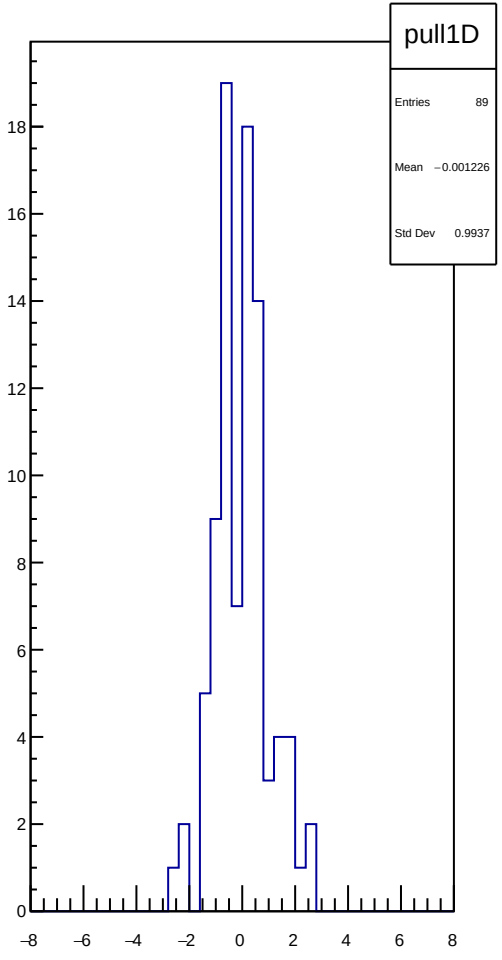

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7770 / 88
p0 5319 ± 3.984
6200
6000
5800
5600
5400
5200
5000
4800

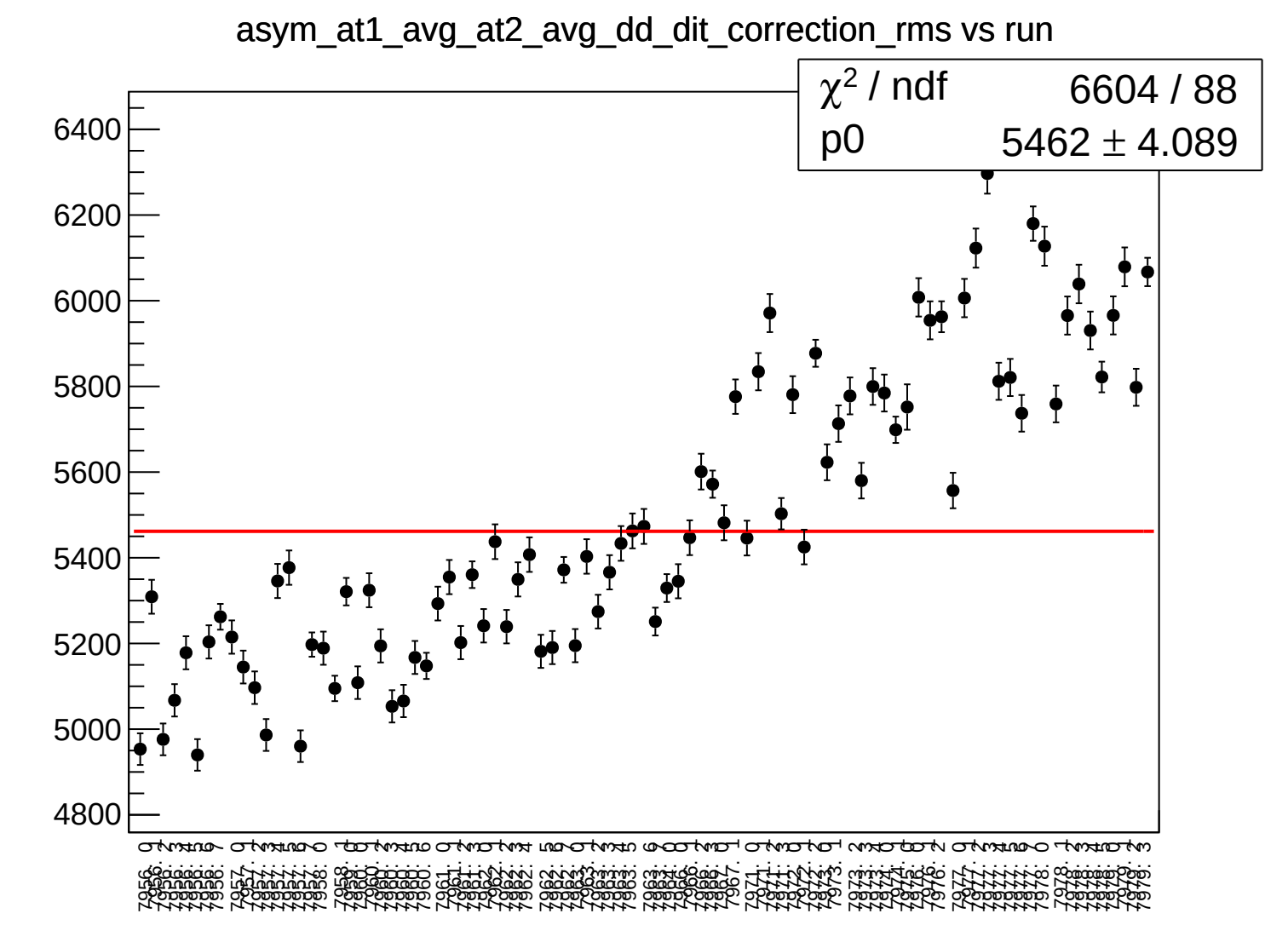

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 79.89 / 88
p0 1000 ± 1372
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −197.6
Std Dev 0
2
1
0
−1
−2

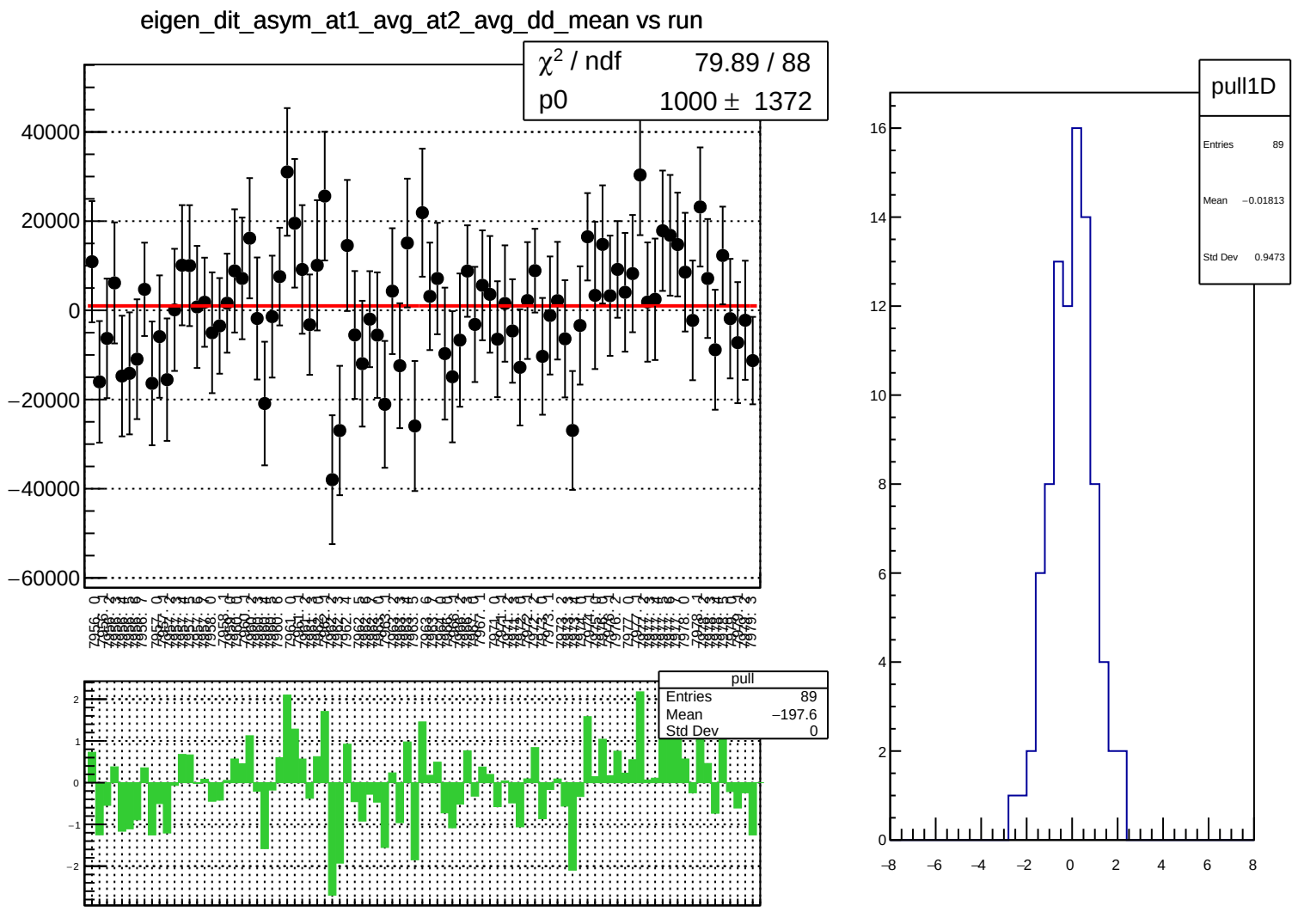

pull1D
Entries 89
Mean −0.01813
Std Dev 0.9473
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

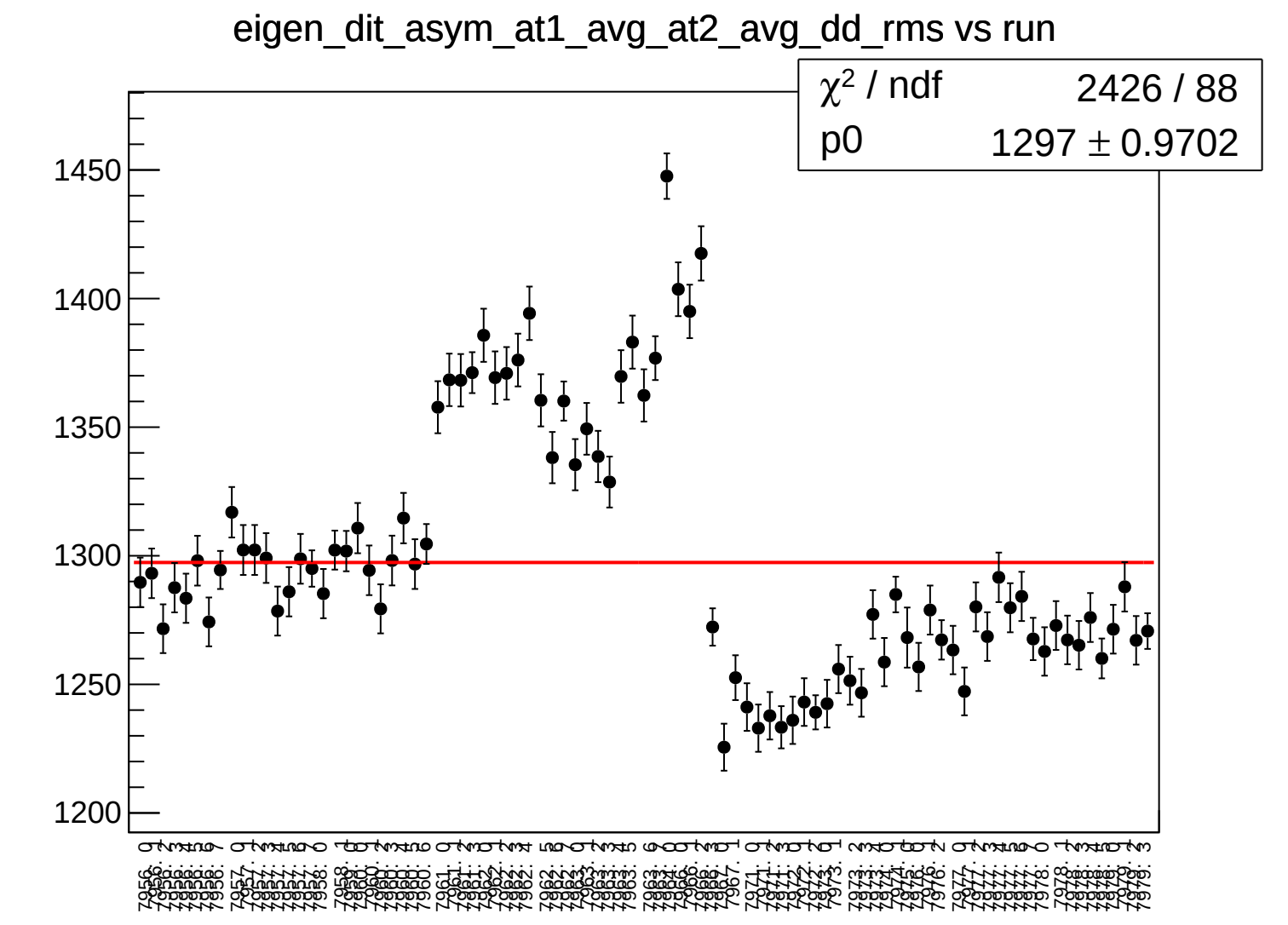

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2426 / 88
p0 1297 ± 0.9702
1450
1400
1350
1300
1250
1200

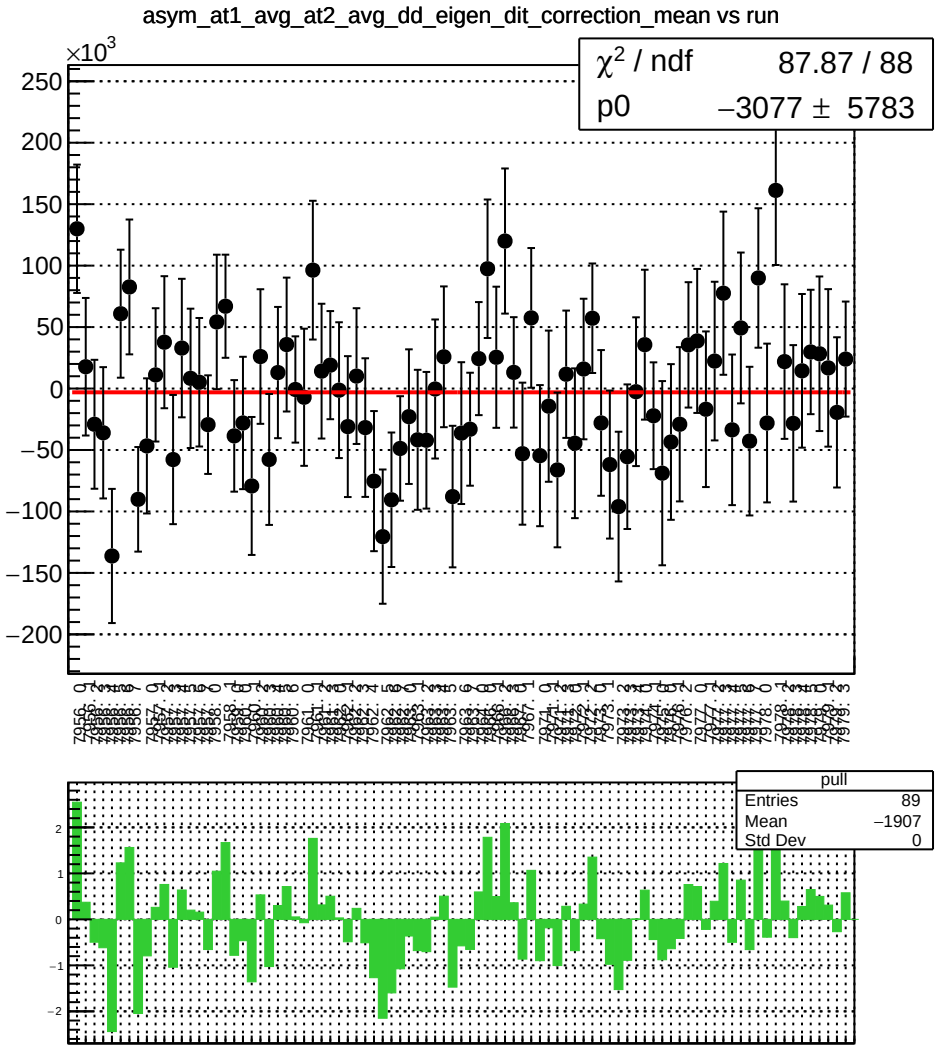

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.87 / 88
p0 −3077 ± 5783
pull
Entries 89
Mean −1907
Std Dev 0

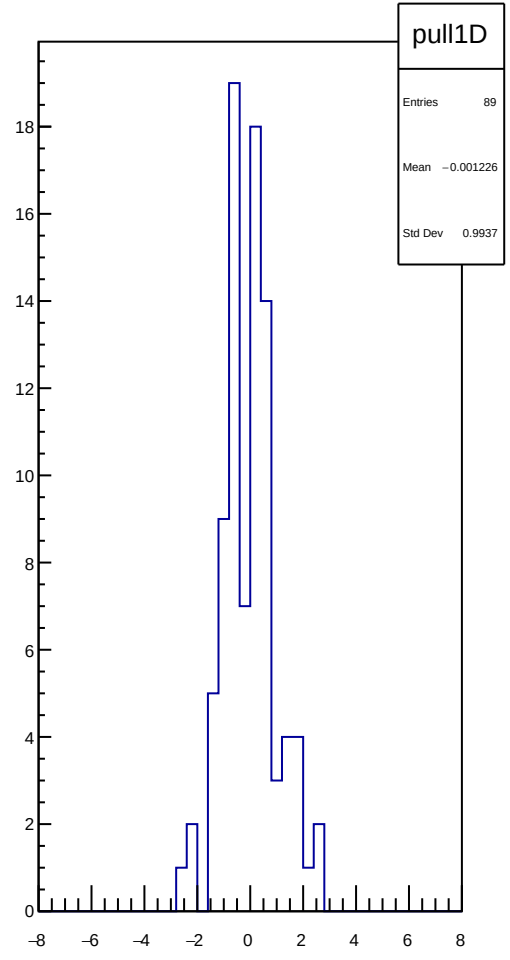

pull1D
Entries 89
Mean −0.001226
Std Dev 0.9937

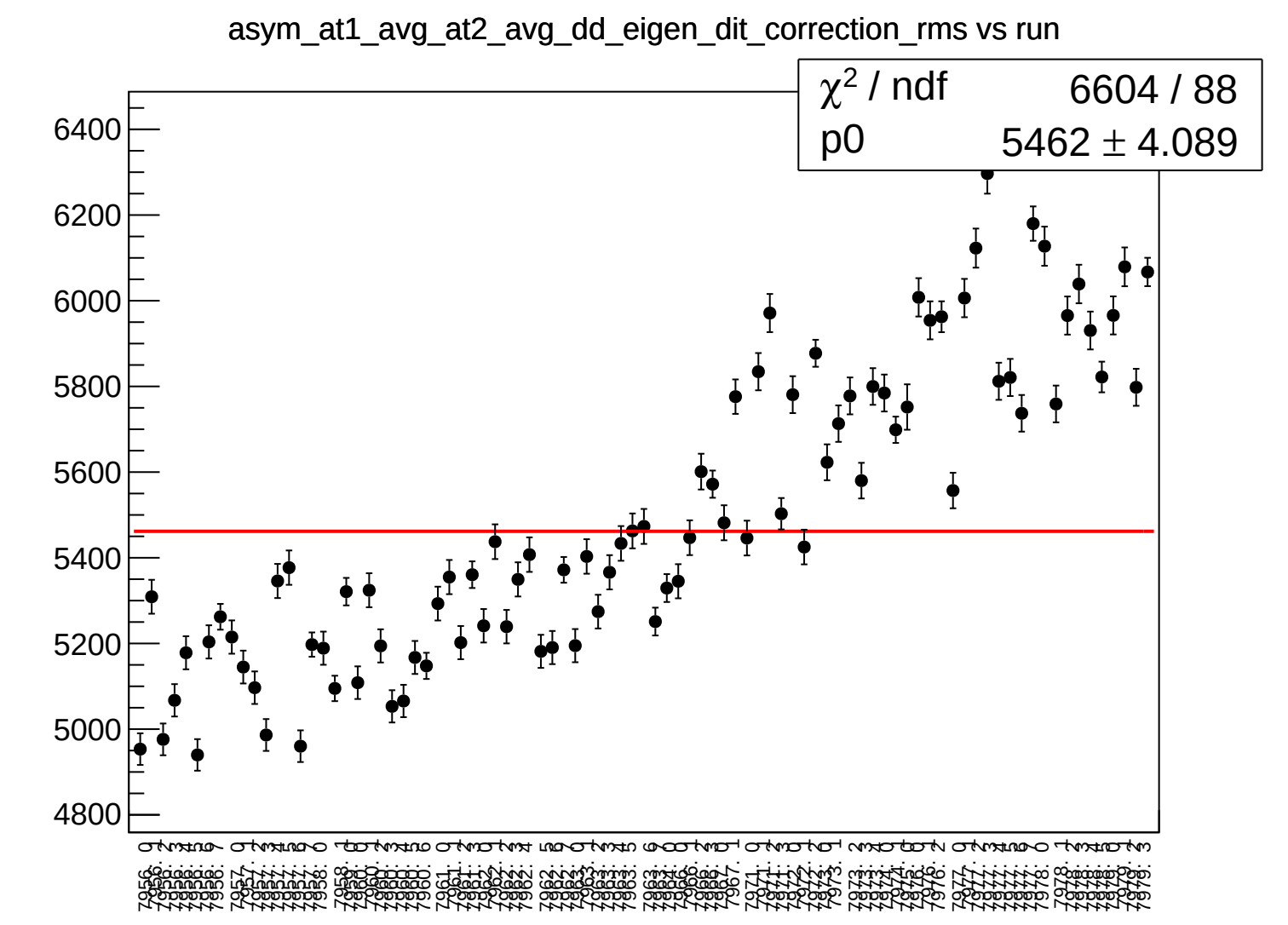

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 6604 / 88
p0 5462 ± 4.089
6400
6200
6000
5800
5600
5400
5200
5000
4800

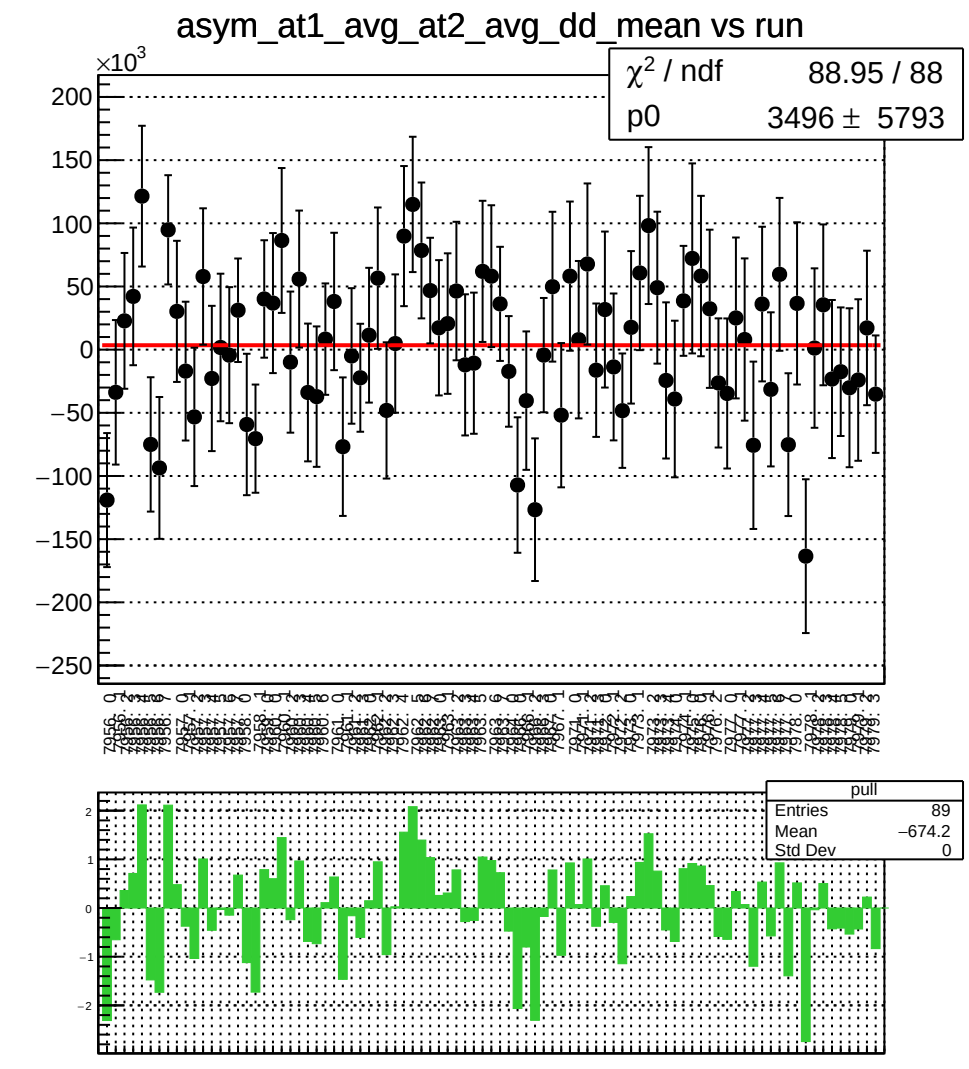

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 79.89 / 88
p0 1000 ± 1372
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −197.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01813
Std Dev 0.9473
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

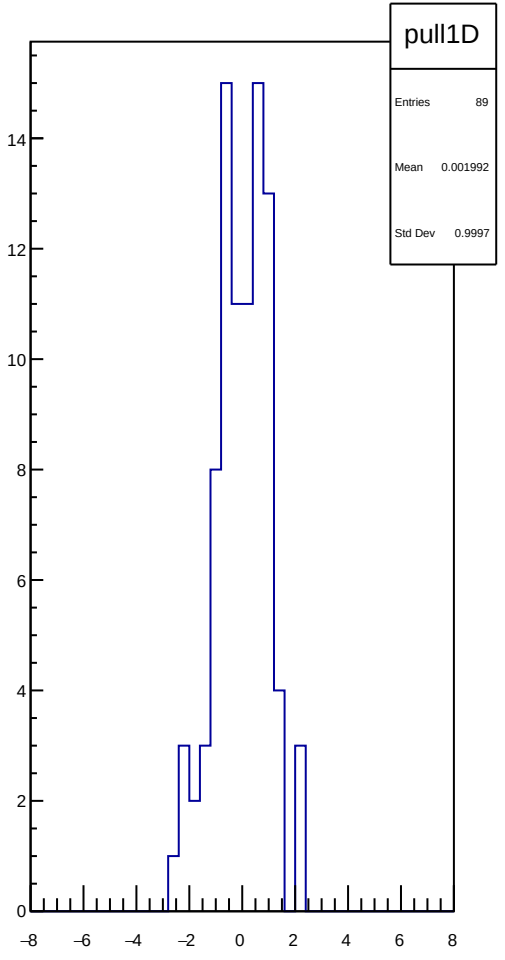

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2426 / 88
p0 1297 ± 0.9702
1450
1400
1350
1300
1250
1200

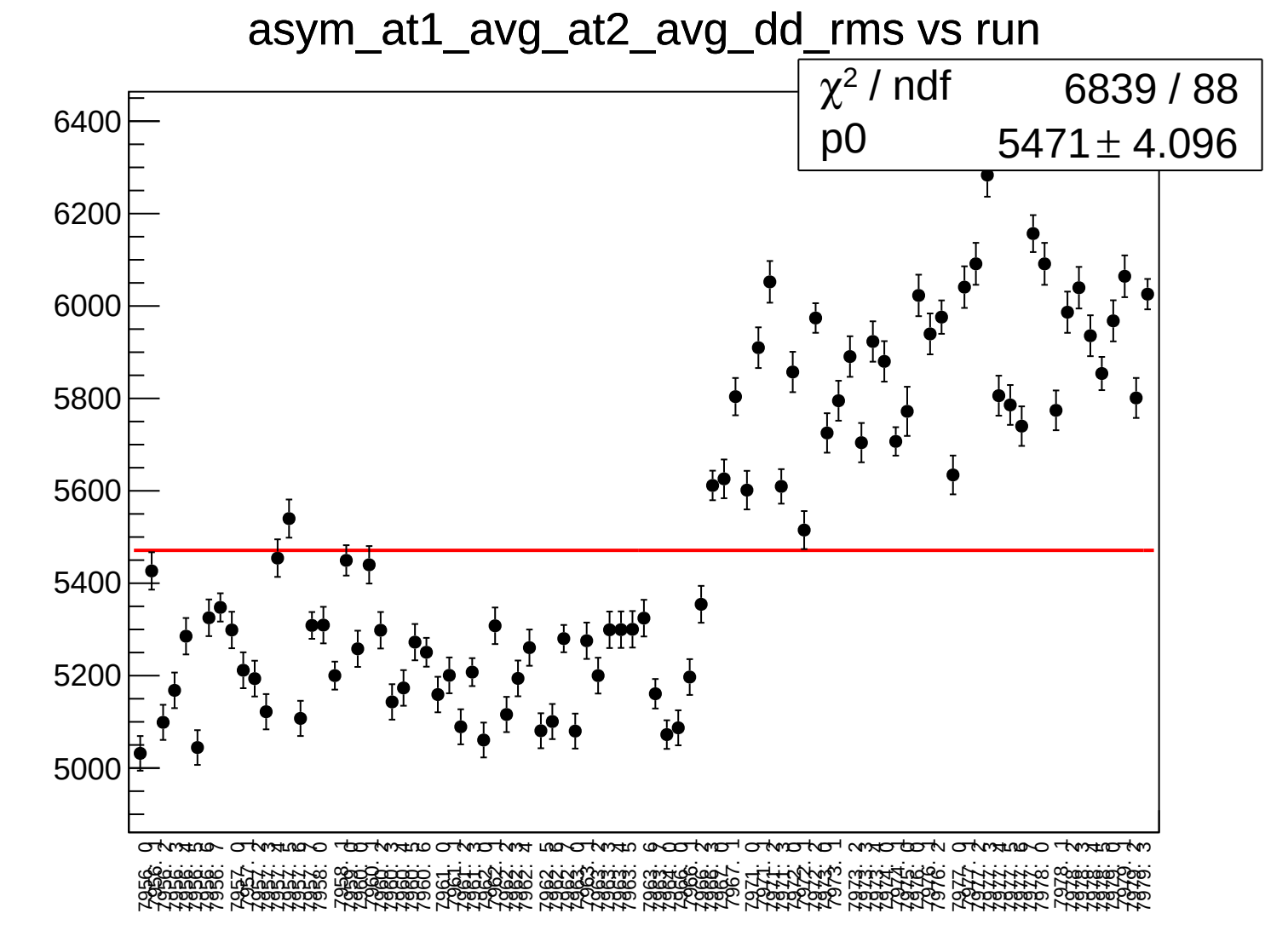

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.87 / 88
p0 −3077 ± 5783
pull
Entries 89
Mean −1907
Std Dev 0

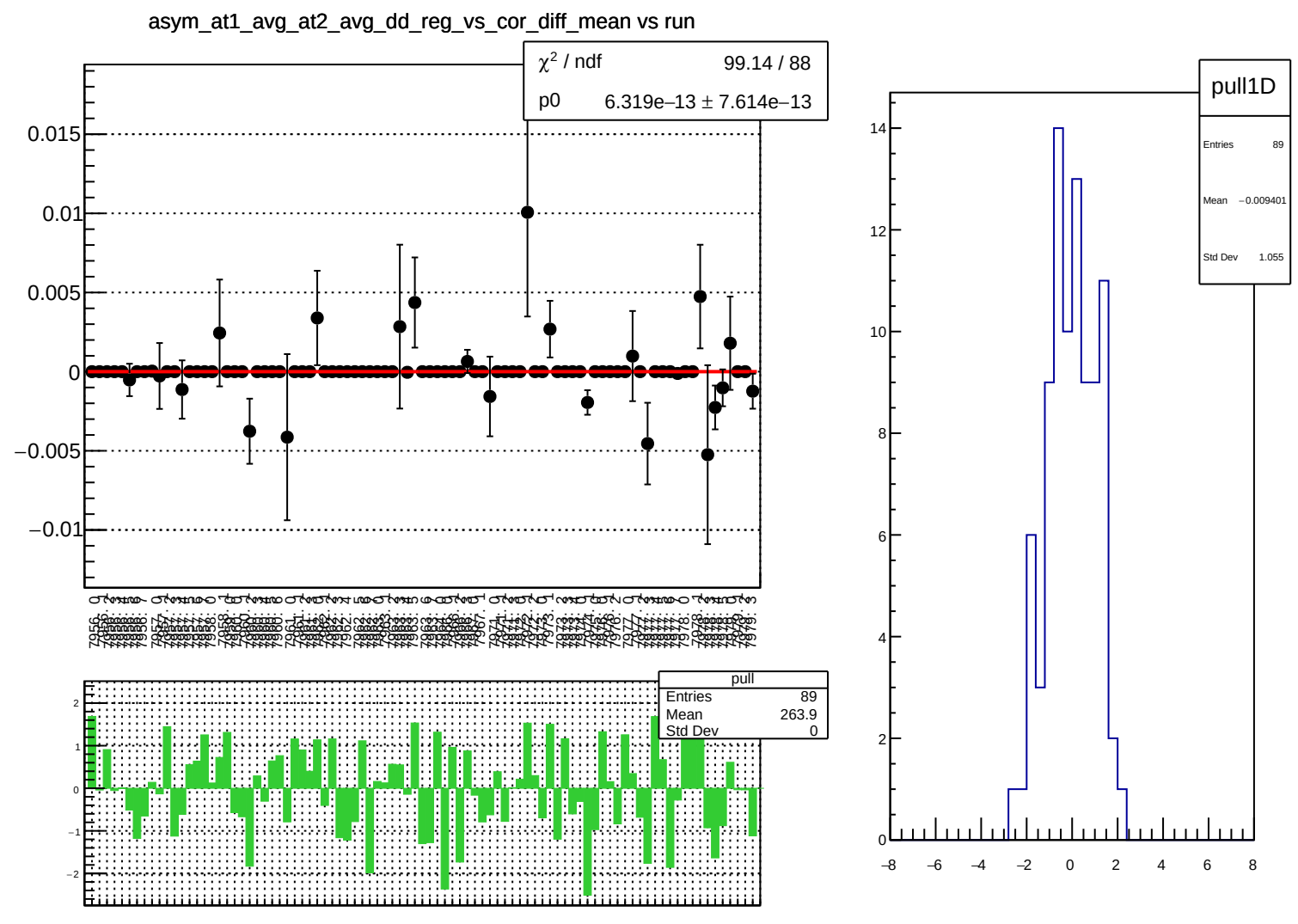

pull1D
Entries 89
Mean −0.001226
Std Dev 0.9937

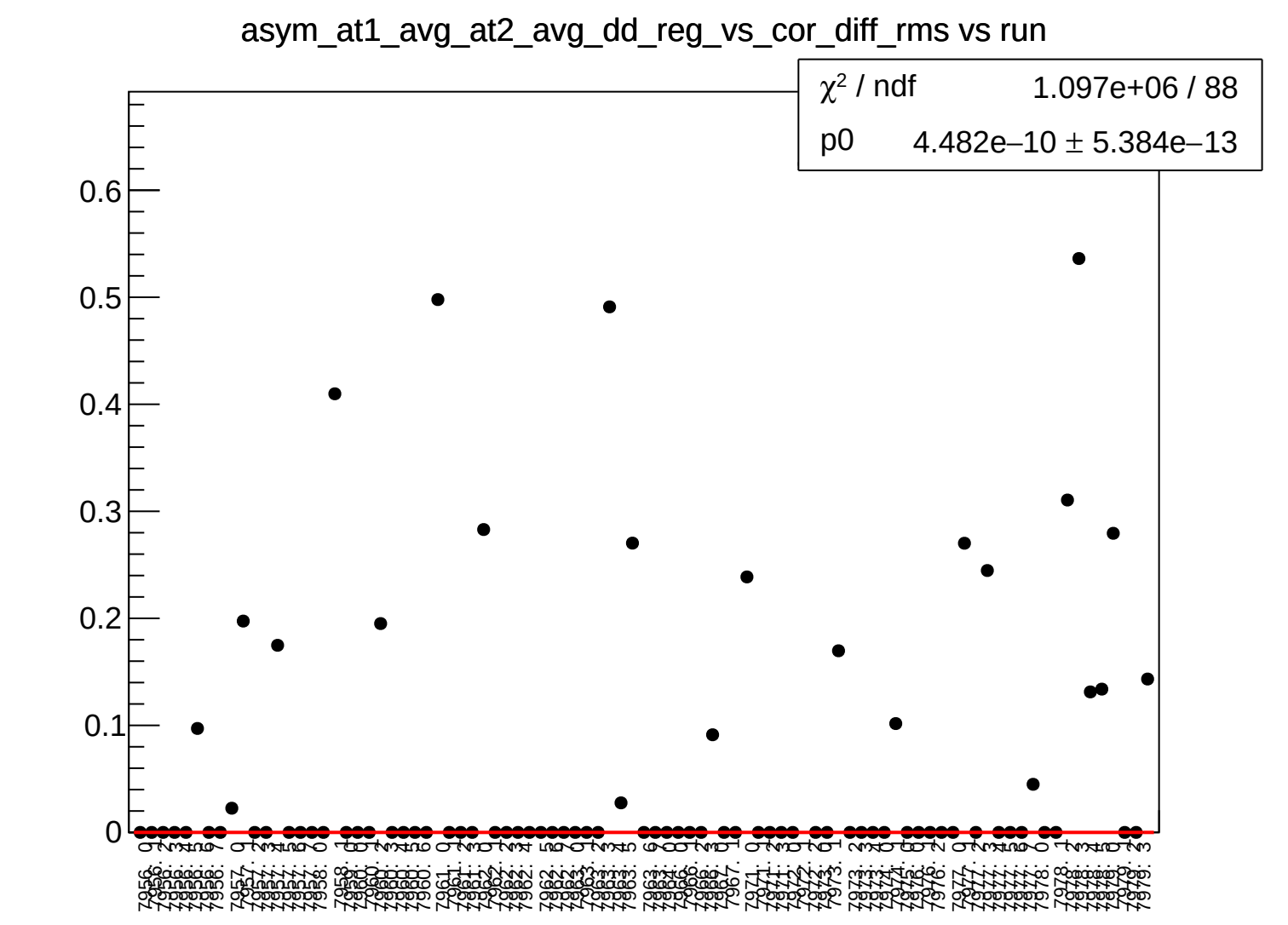

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6604 / 88
p0 5462 ± 4.089
6400
6200
6000
5800
5600
5400
5200
5000
4800

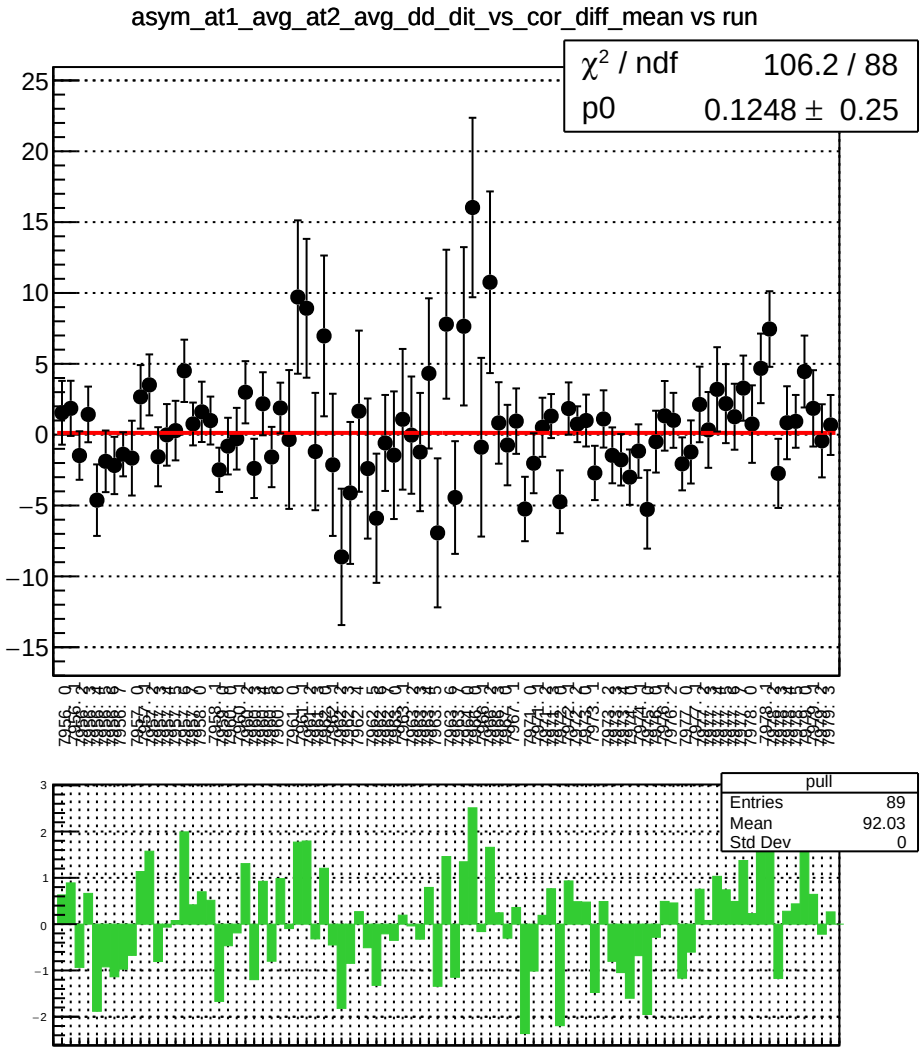

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 88.95 / 88
p0 3496 ± 5793
pull
Entries 89
Mean −674.2
Std Dev 0

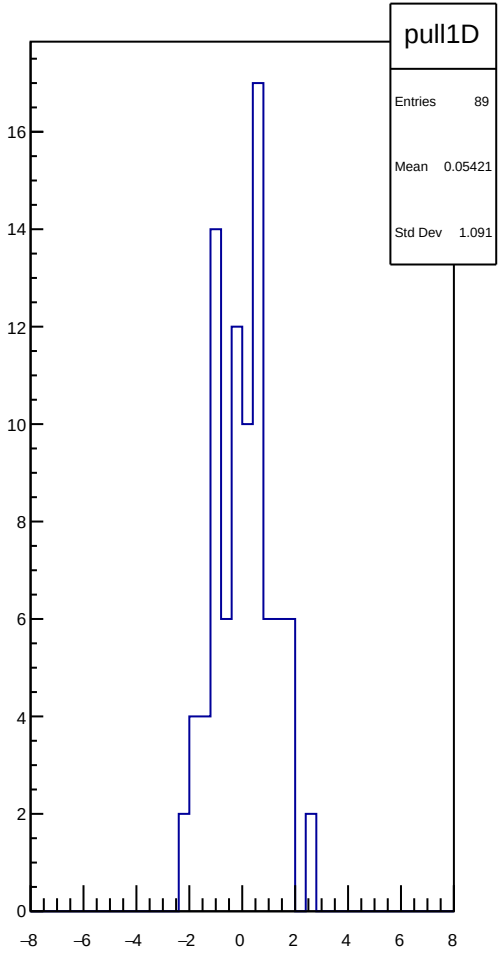

pull1D
Entries 89
Mean 0.001992
Std Dev 0.9997

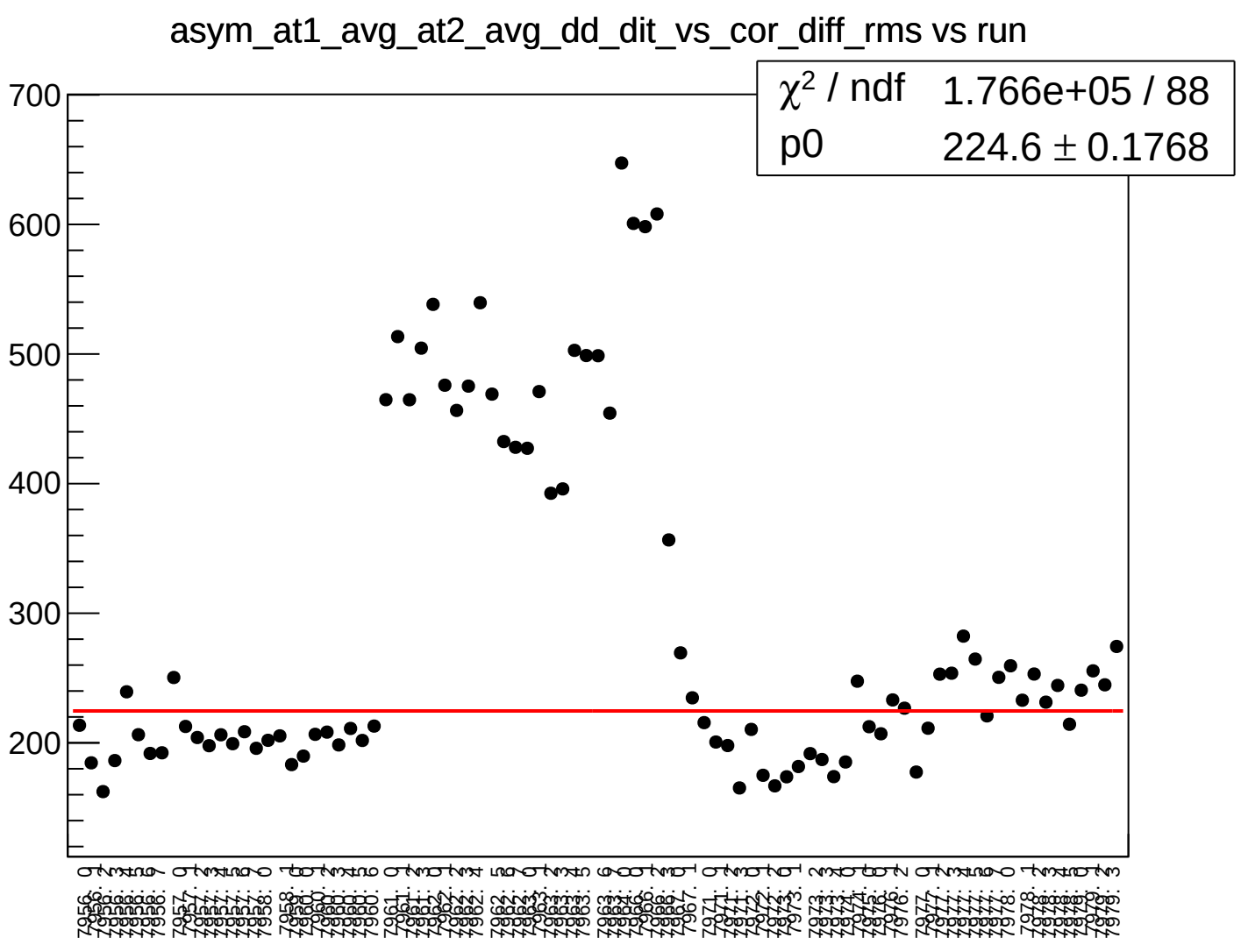

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 6839 / 88
p0 5471 ± 4.096
6400
6200
6000
5800
5600
5400
5200
5000

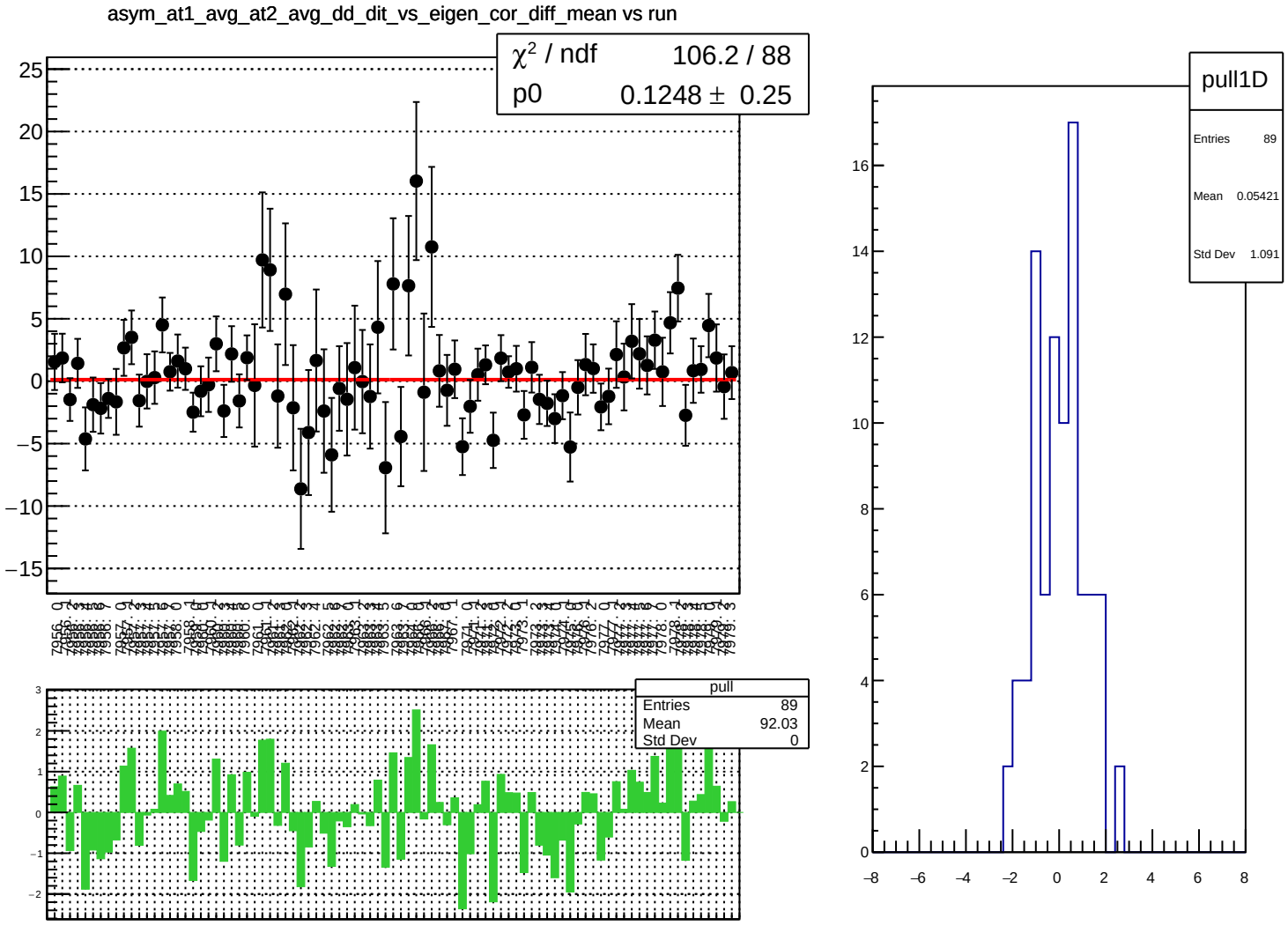

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.14 / 88
p0 6.319e−13 ± 7.614e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 263.9
Std Dev 0
pull1D
Entries 89
Mean −0.009401
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

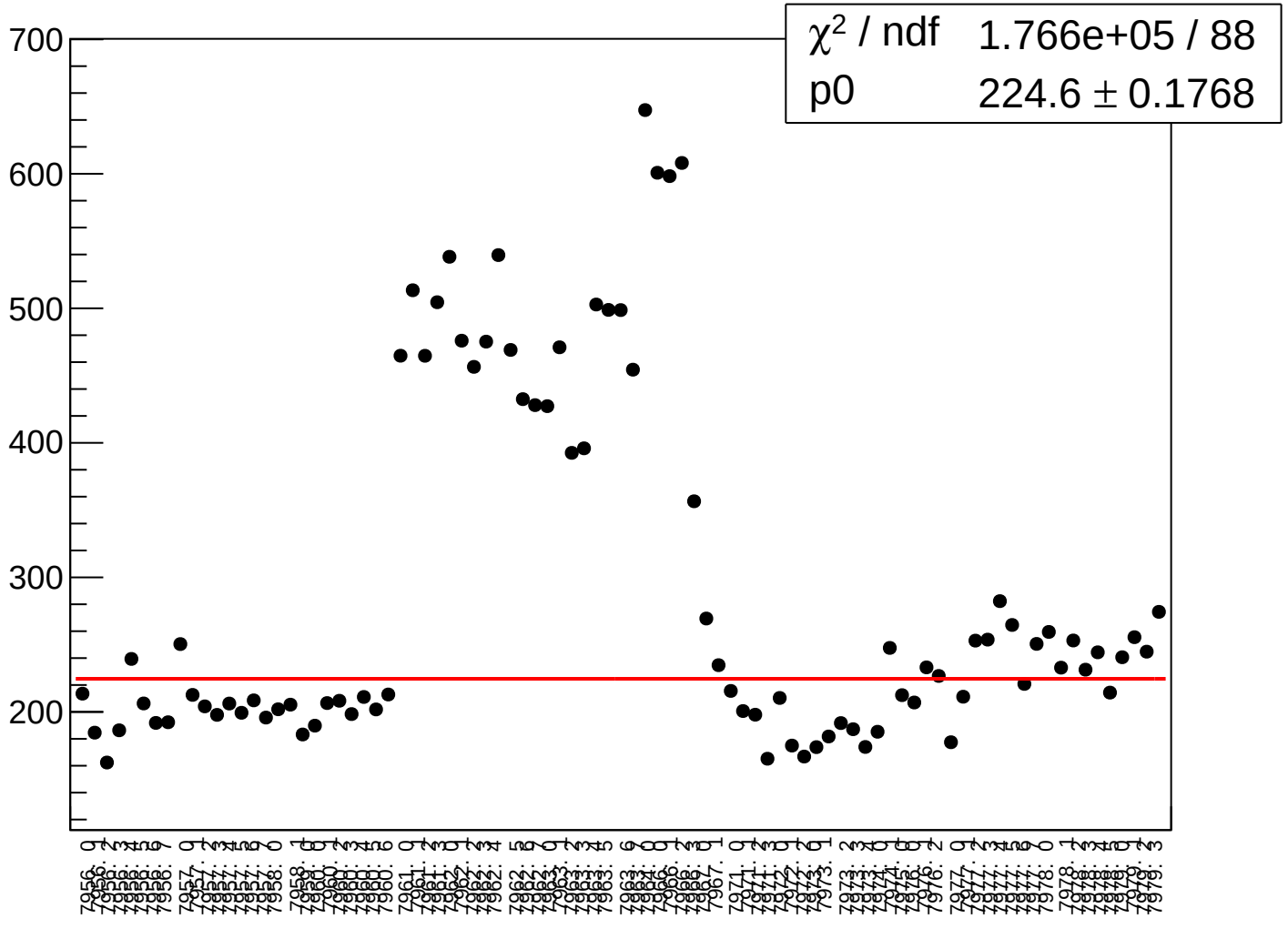

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.097e+06 / 88
p0 4.482e−10 ± 5.384e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

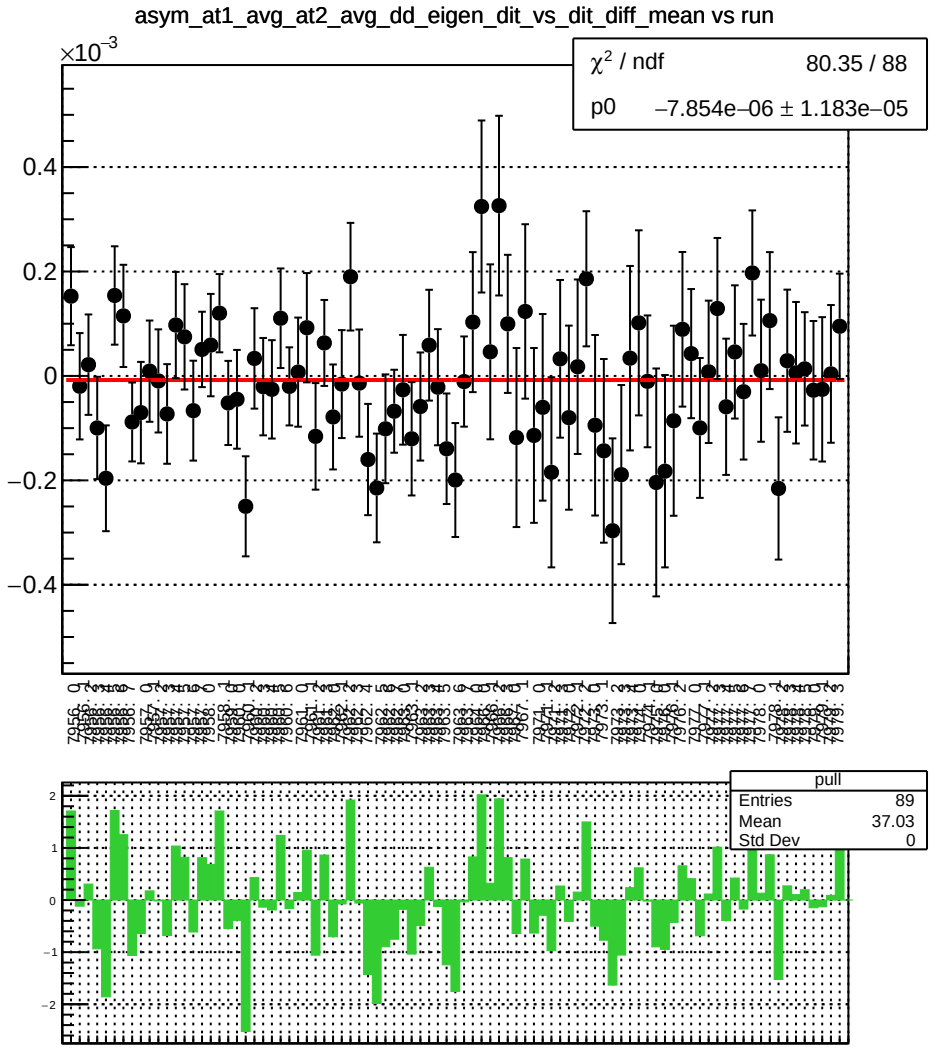

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 88
p0 0.1248 ± 0.25
pull
Entries 89
Mean 92.03
Std Dev 0

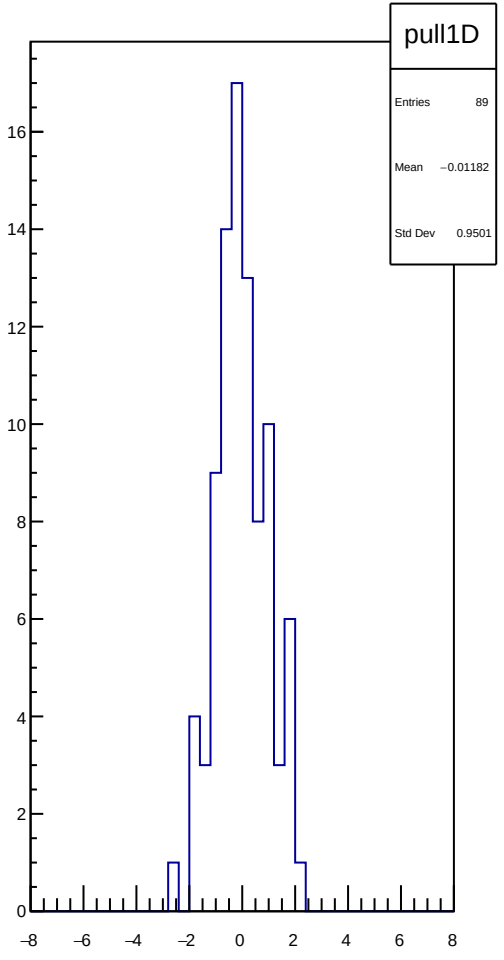

pull1D
Entries 89
Mean 0.05421
Std Dev 1.091

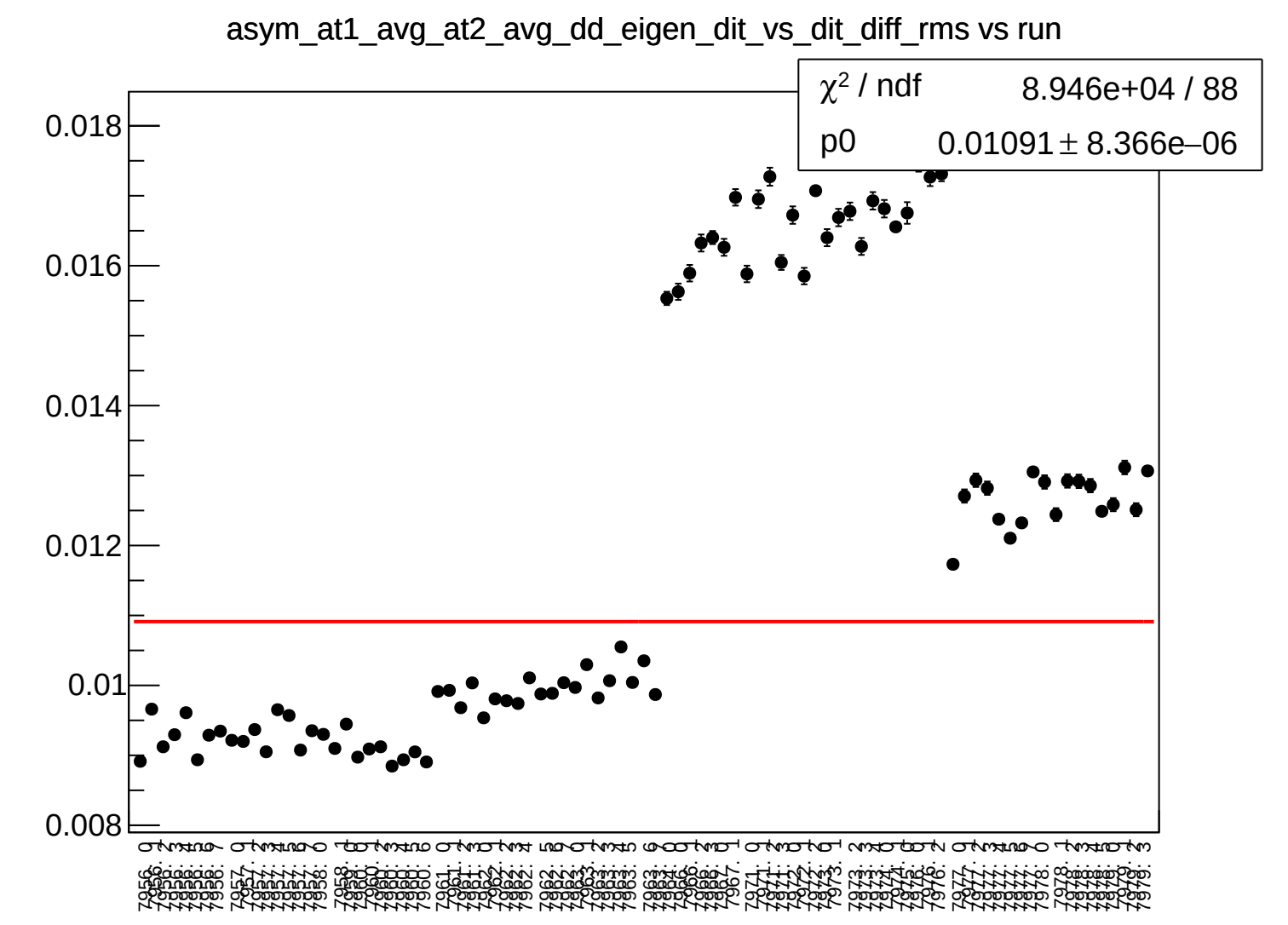

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 88
p0 224.6 ± 0.1768
700
600
500
400
300
200

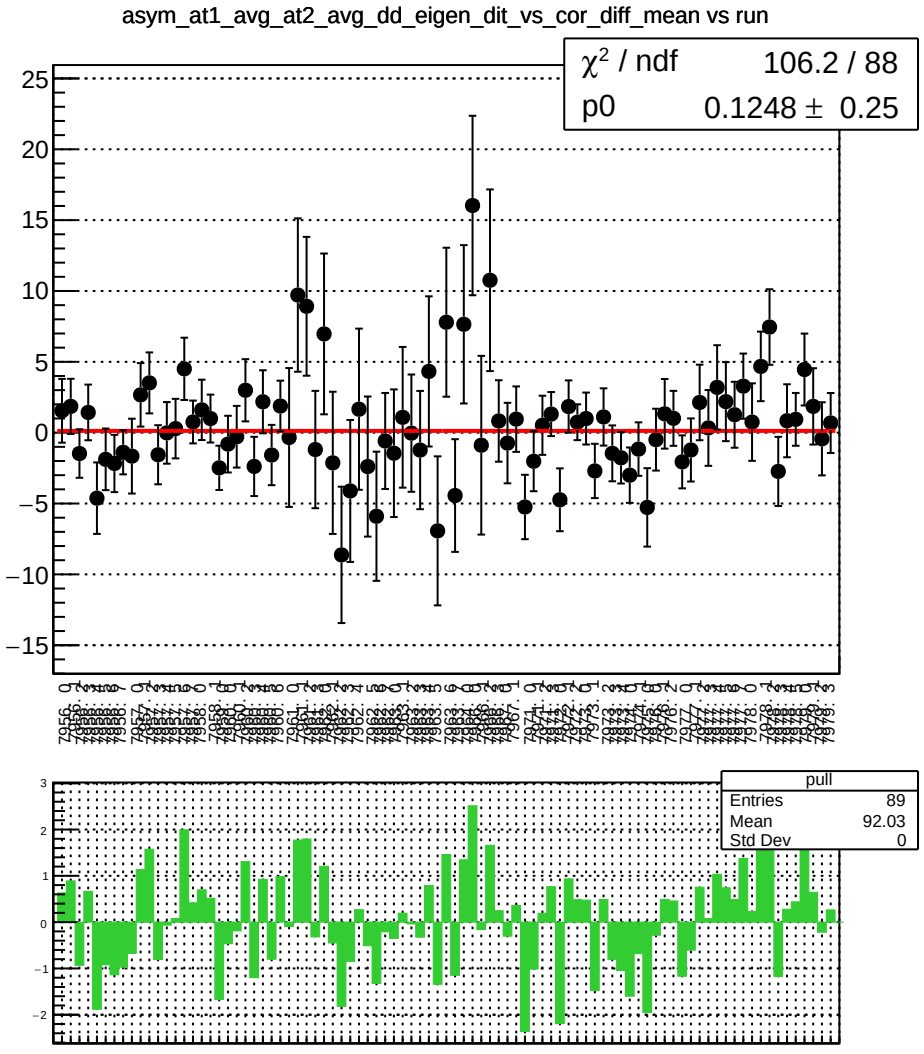

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 88
p0 0.1248 ± 0.25
pull
Entries 89
Mean 92.03
Std Dev 0
pull1D
Entries 89
Mean 0.05421
Std Dev 1.091

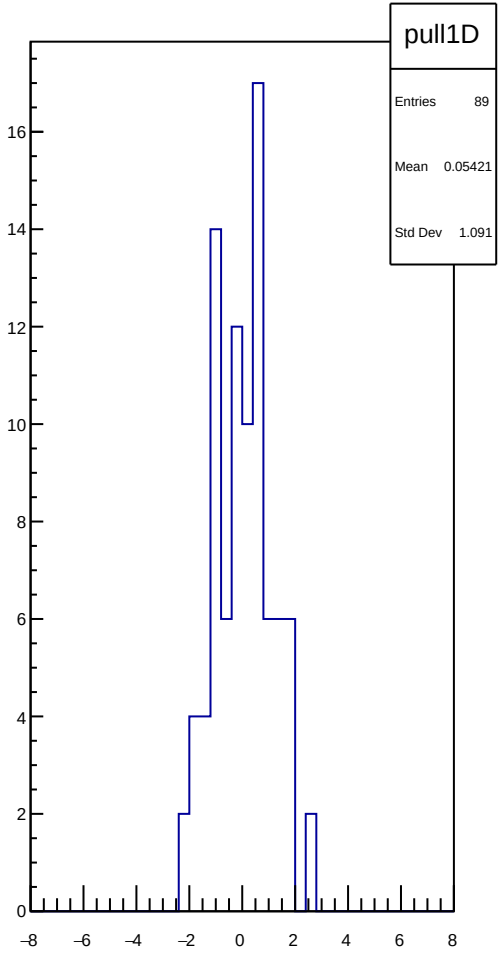

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 88
p0 224.6 ± 0.1768
700
600
500
400
300
200

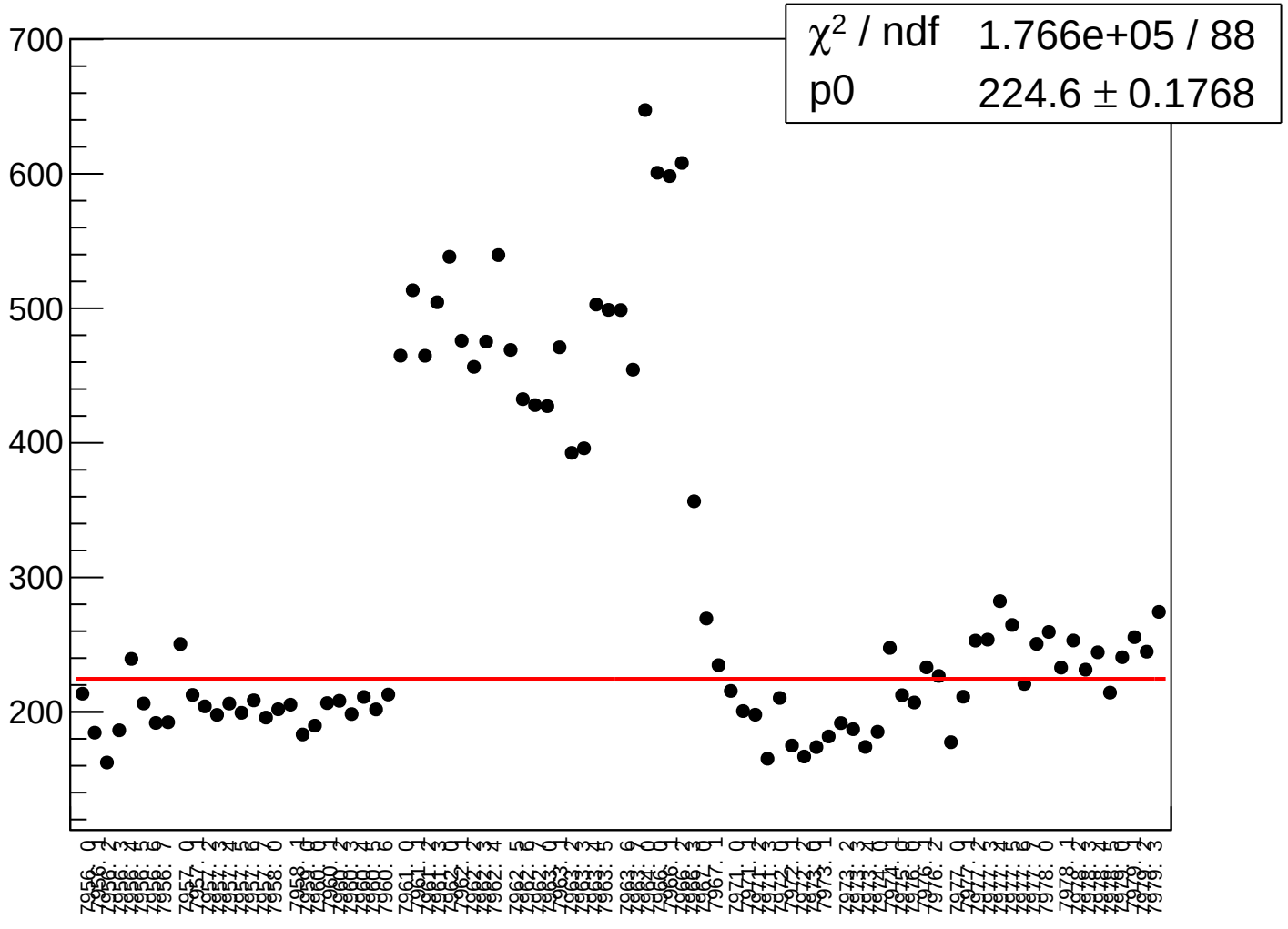

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.35 / 88
p0 −7.854e−06 ± 1.183e−05
pull
Entries 89
Mean 37.03
Std Dev 0

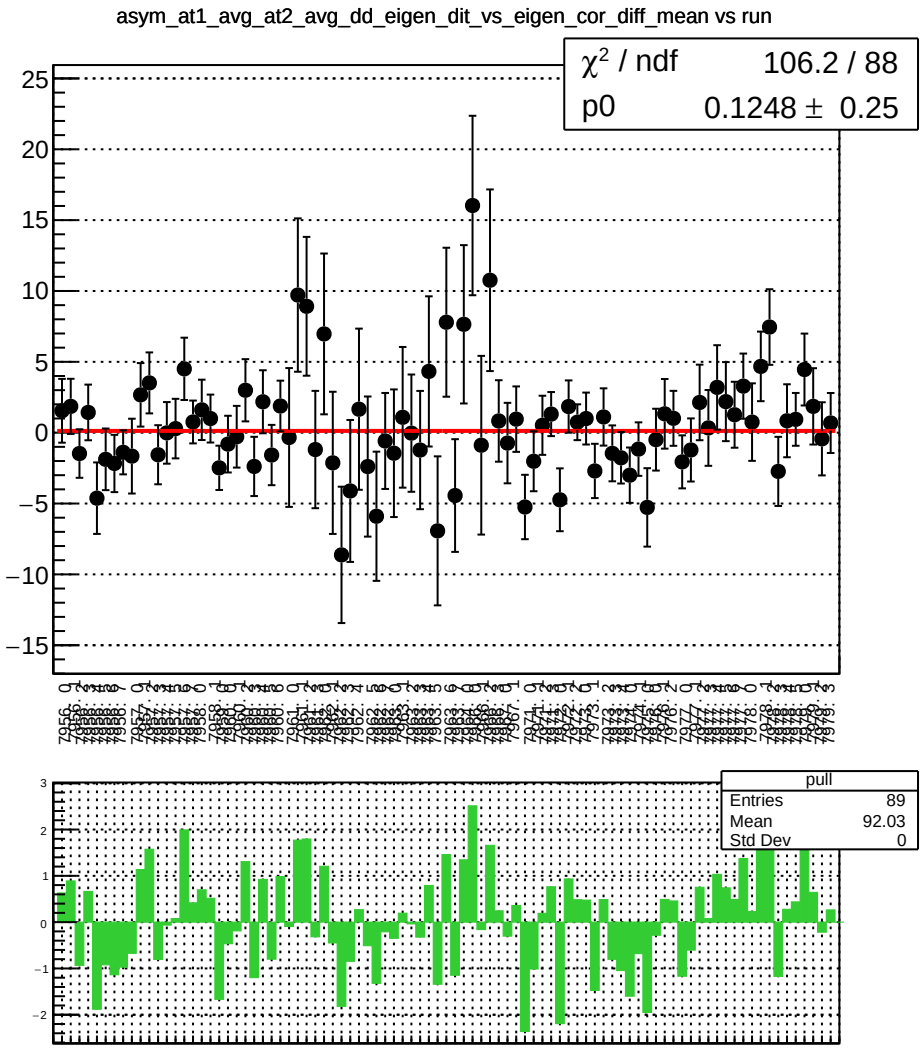

pull1D
Entries 89
Mean −0.01182
Std Dev 0.9501

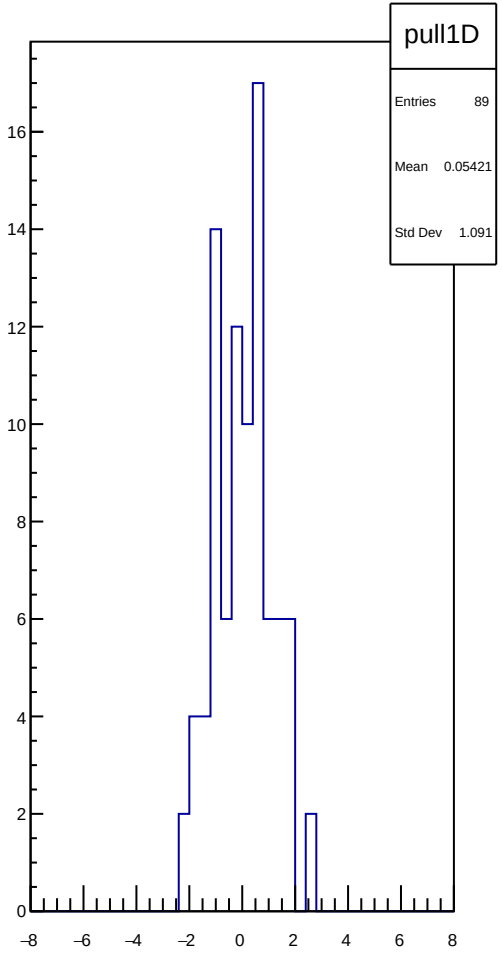

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.946e+04 / 88
p0 0.01091 ± 8.366e−06
0.018
0.016
0.014
0.012
0.01
0.008

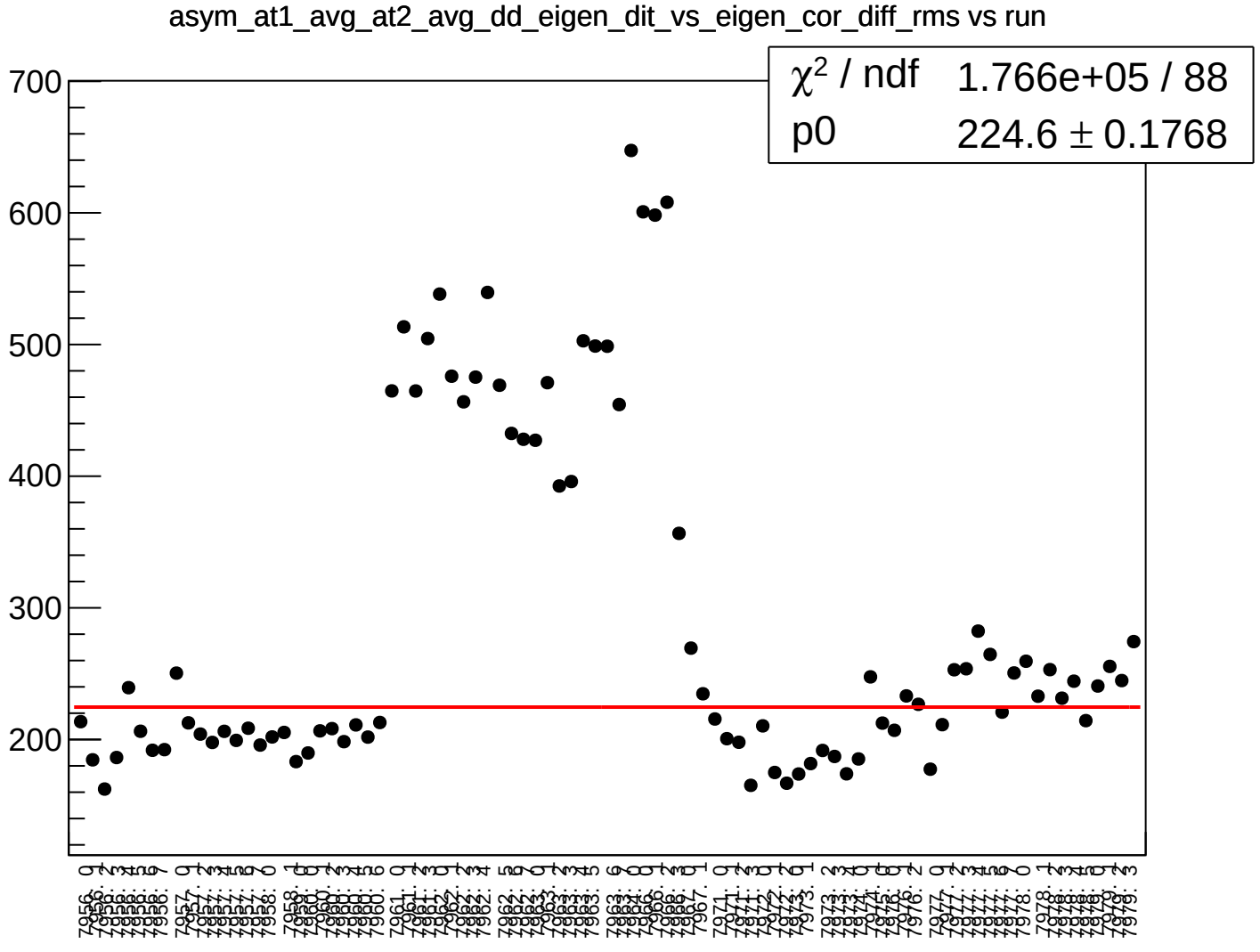

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 88
p0 0.1248 ± 0.25
pull
Entries 89
Mean 92.03
Std Dev 0

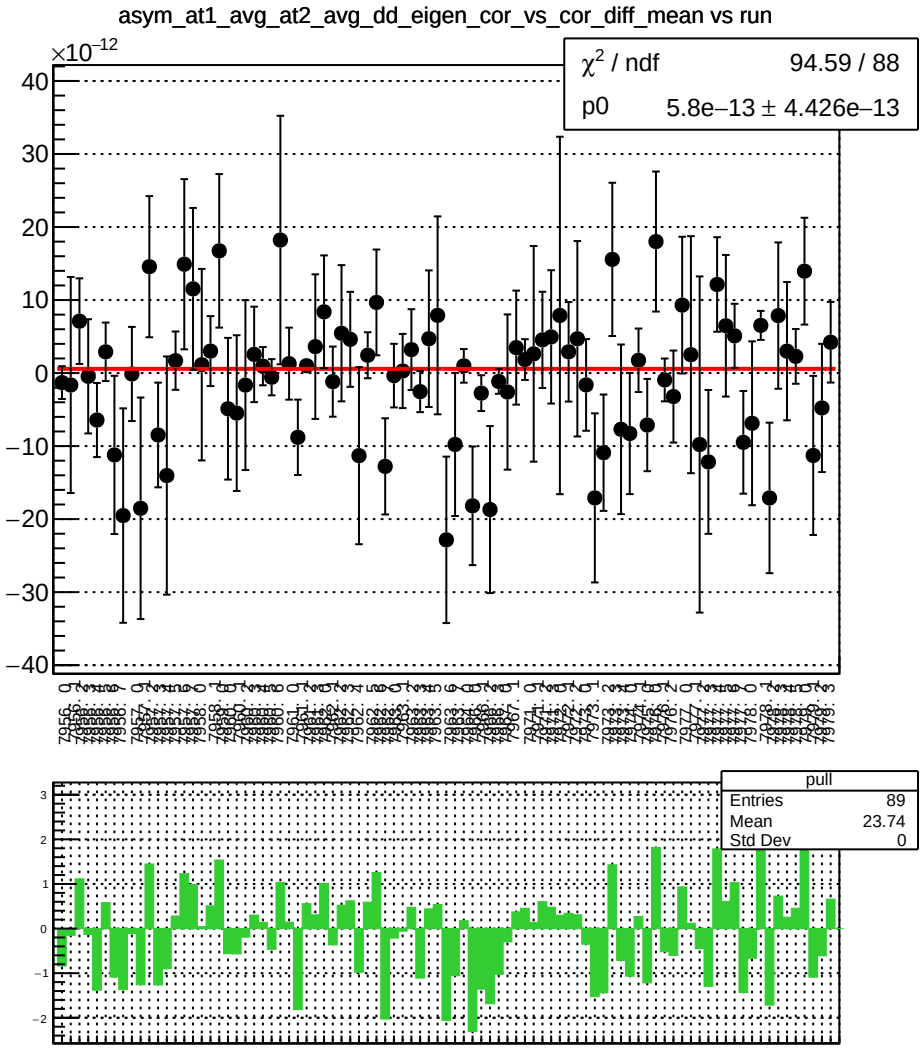

pull1D
Entries 89
Mean 0.05421
Std Dev 1.091

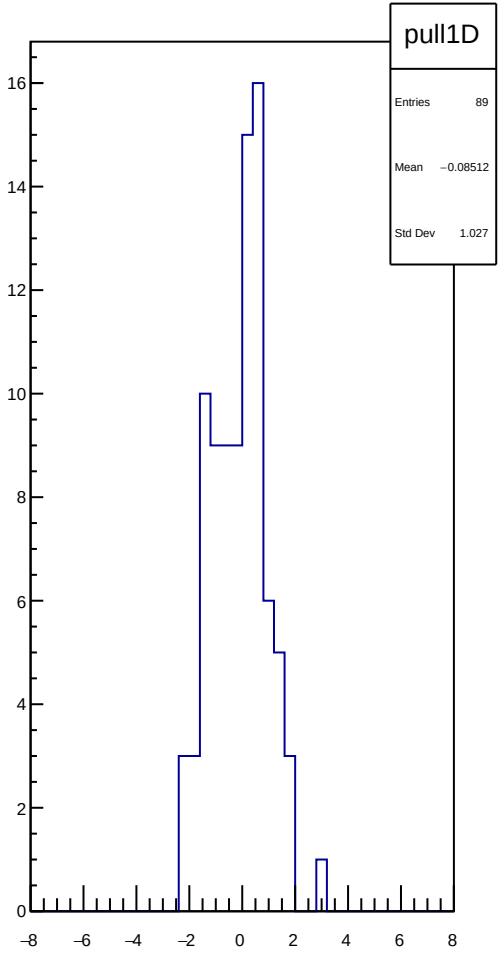

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 88
p0 224.6 ± 0.1768
700
600
500
400
300
200

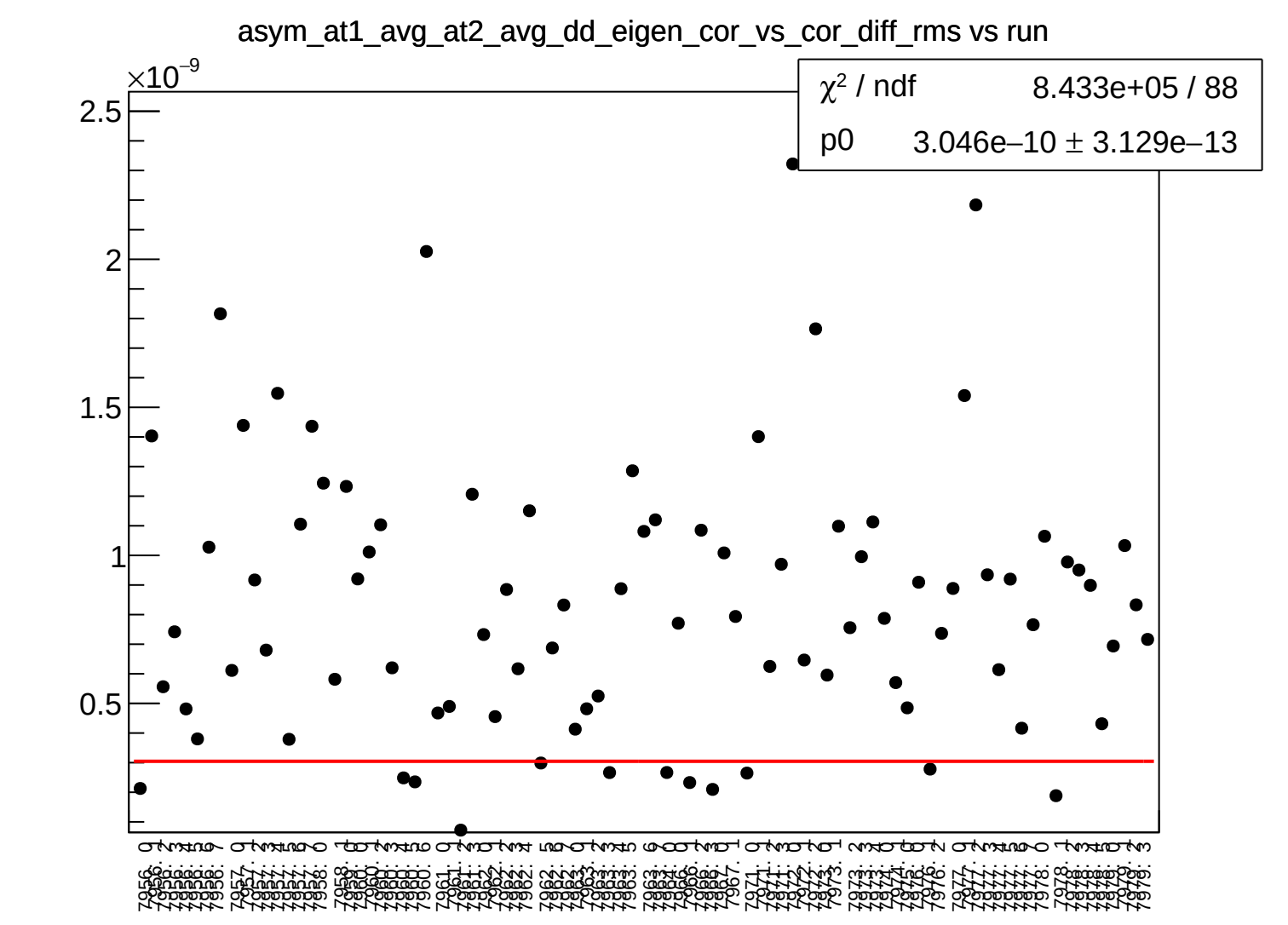

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 88
p0 0.1248 ± 0.25
pull
Entries 89
Mean 92.03
Std Dev 0

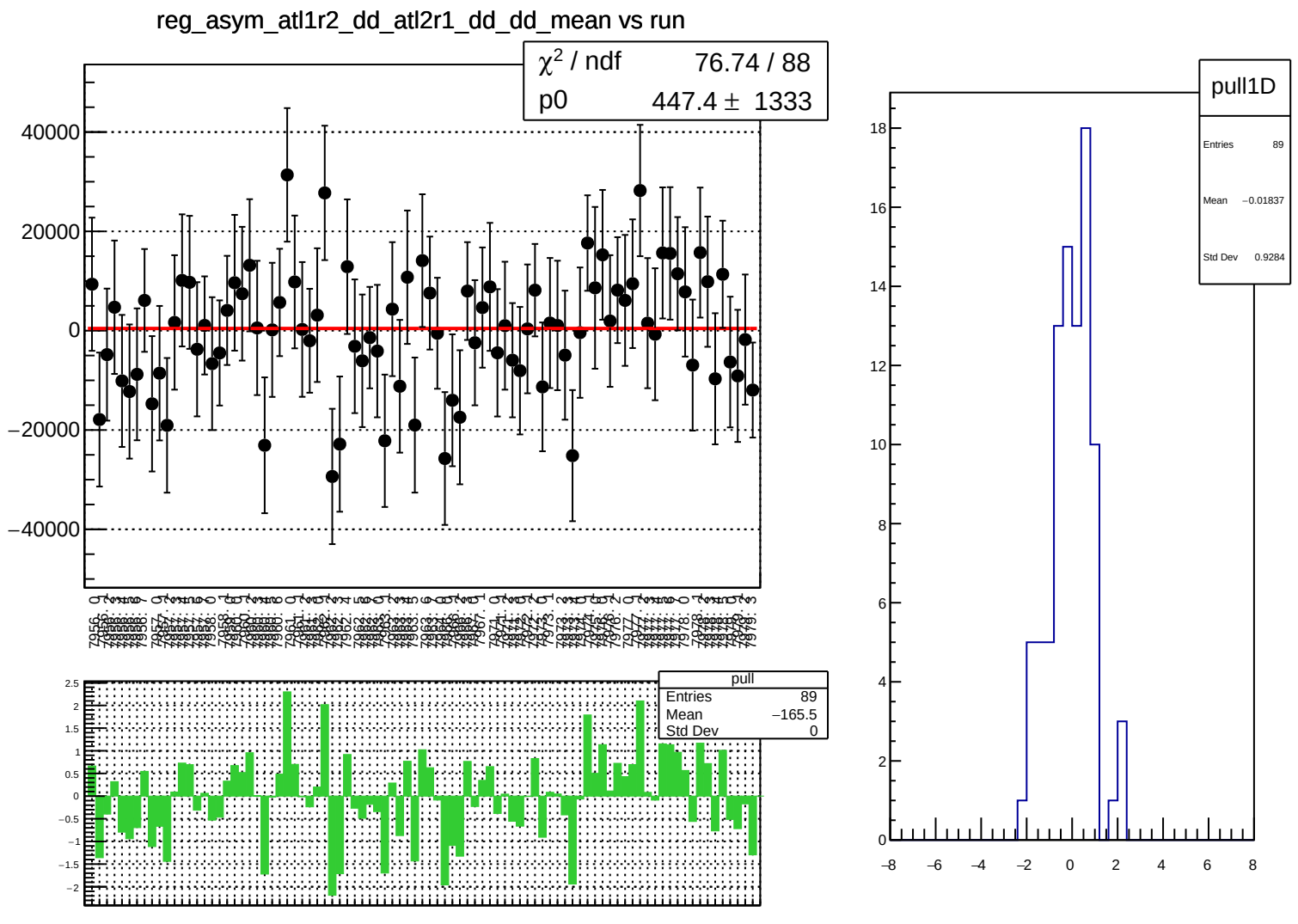

pull1D
Entries 89
Mean 0.05421
Std Dev 1.091

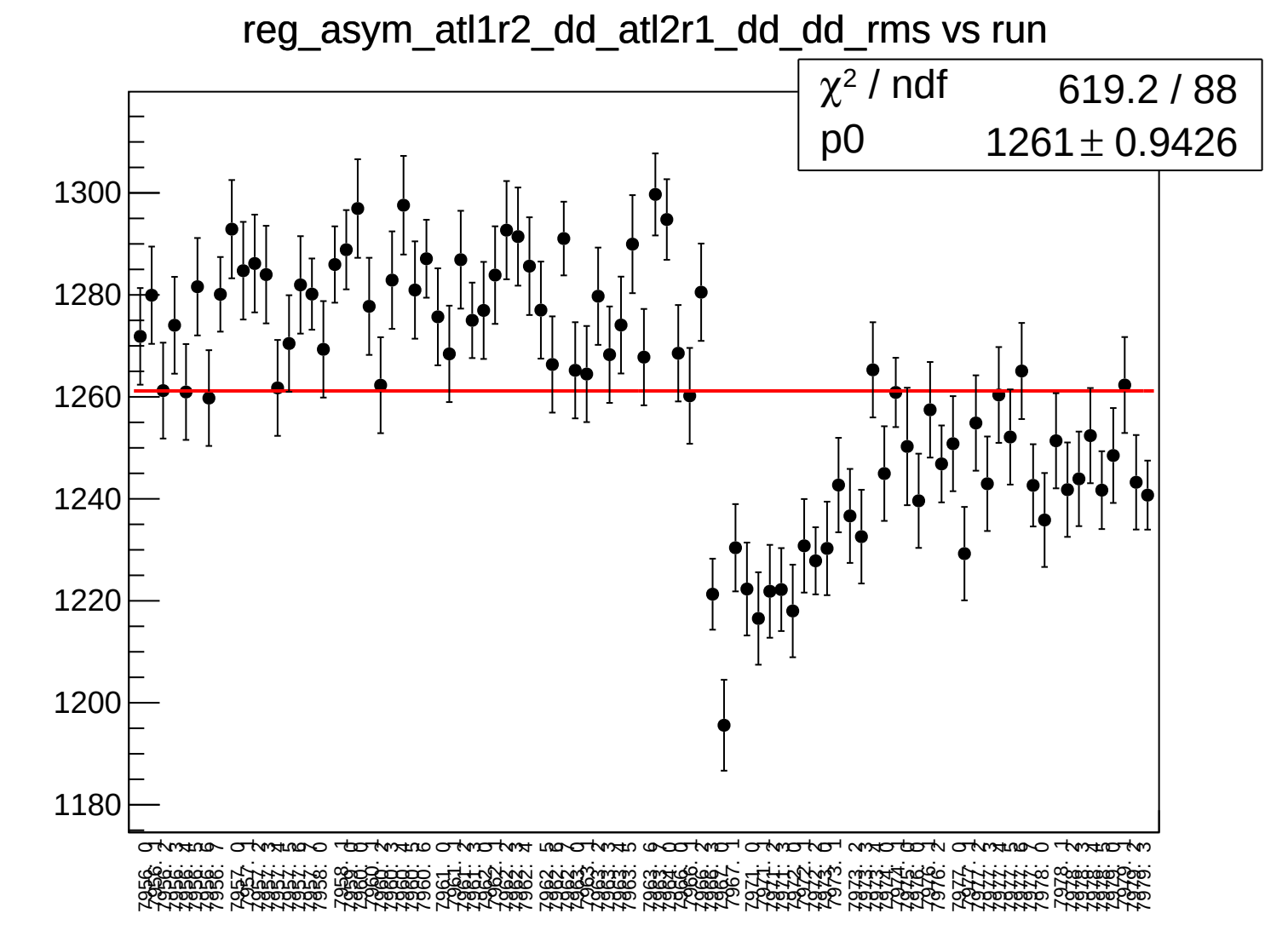

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 88
p0 224.6 ± 0.1768
700
600
500
400
300
200

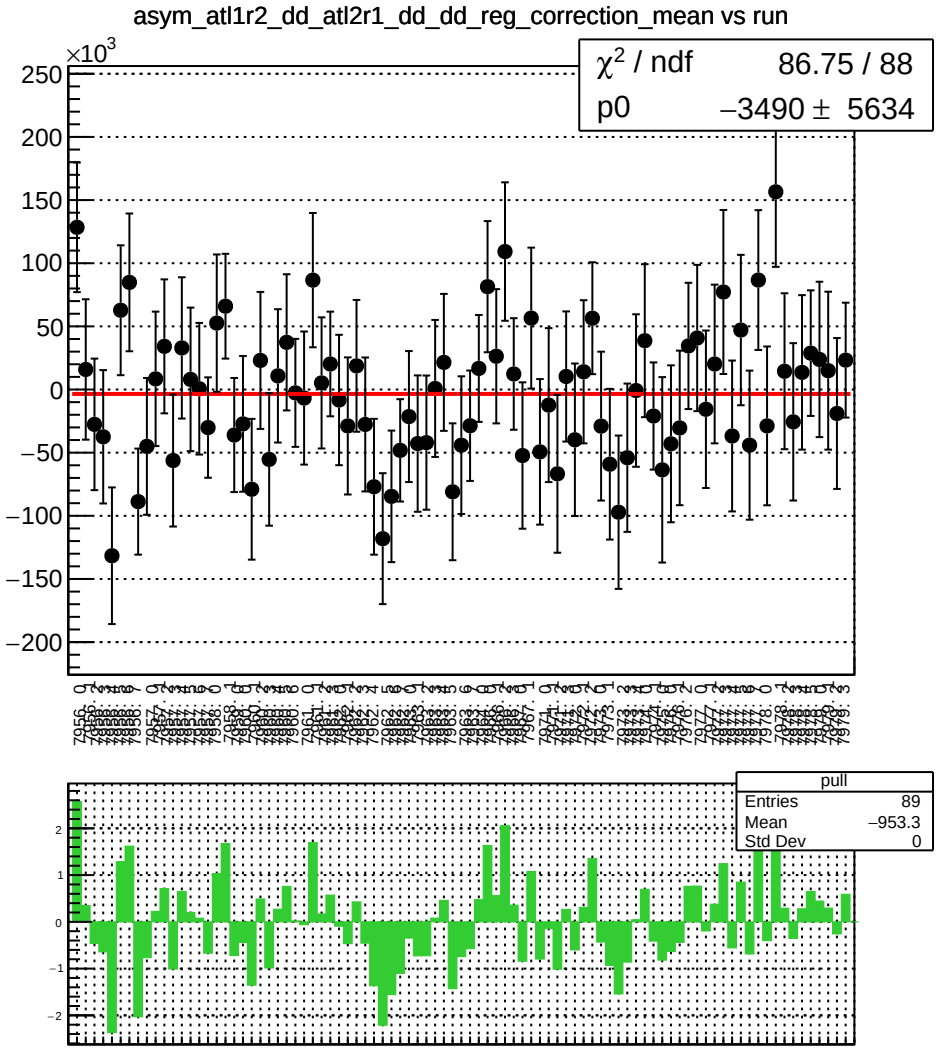

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.59 / 88
p0 5.8e−13 ± 4.426e−13
pull
Entries 89
Mean 23.74
Std Dev 0

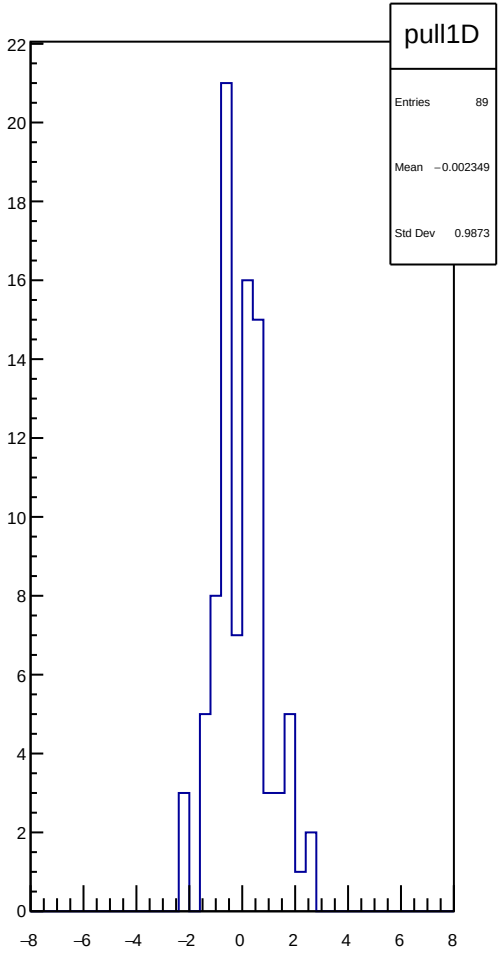

pull1D
Entries 89
Mean −0.08512
Std Dev 1.027

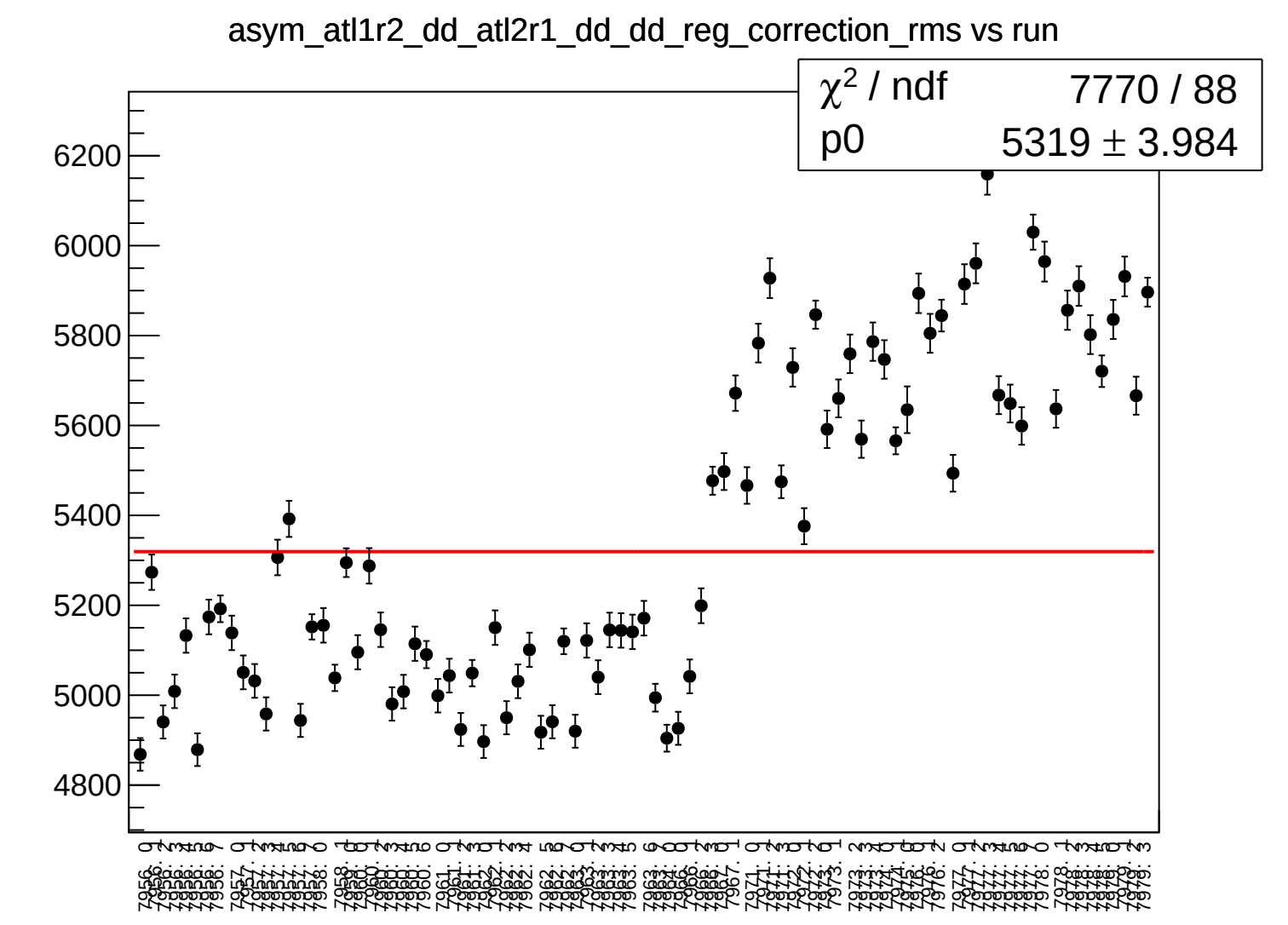

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 8.433e+05 / 88
p0 3.046e−10 ± 3.129e−13

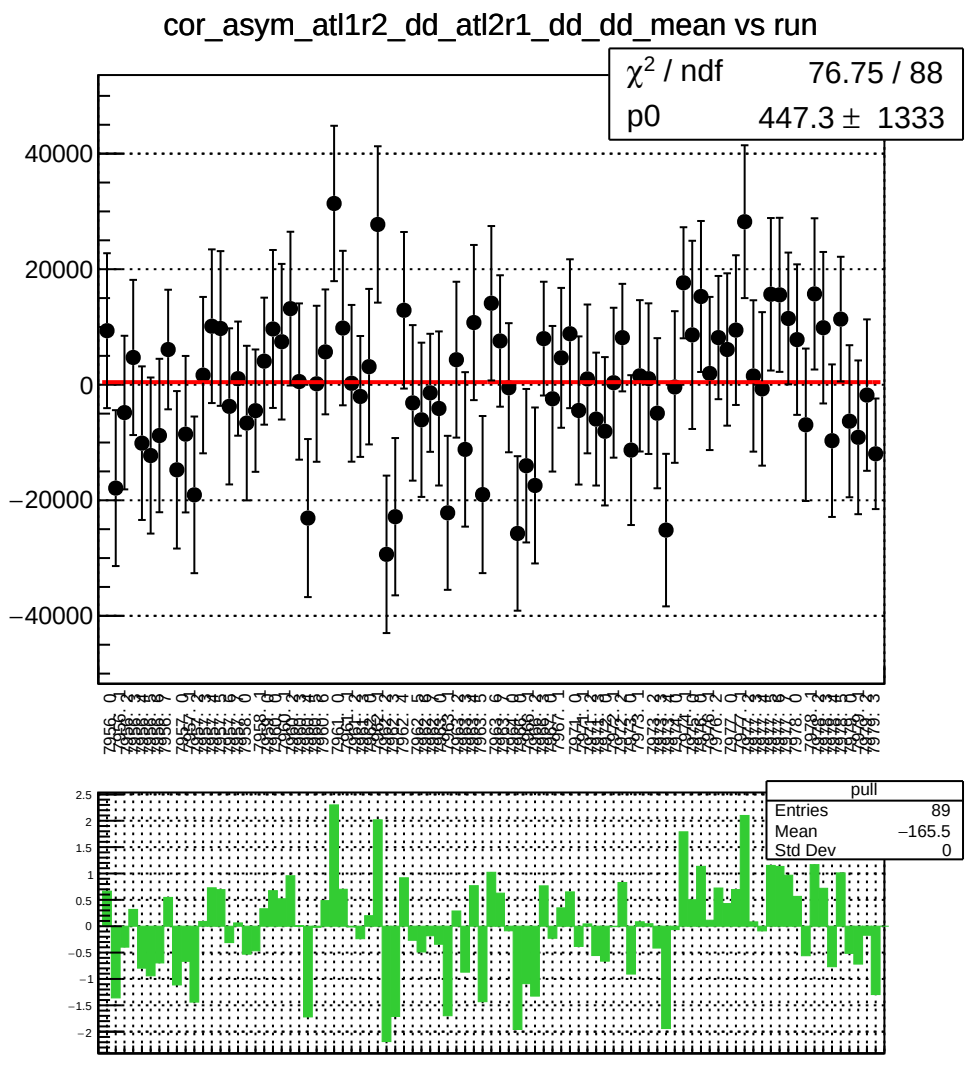

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.74 / 88
p0 447.4 ± 1333
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01837
Std Dev 0.9284
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

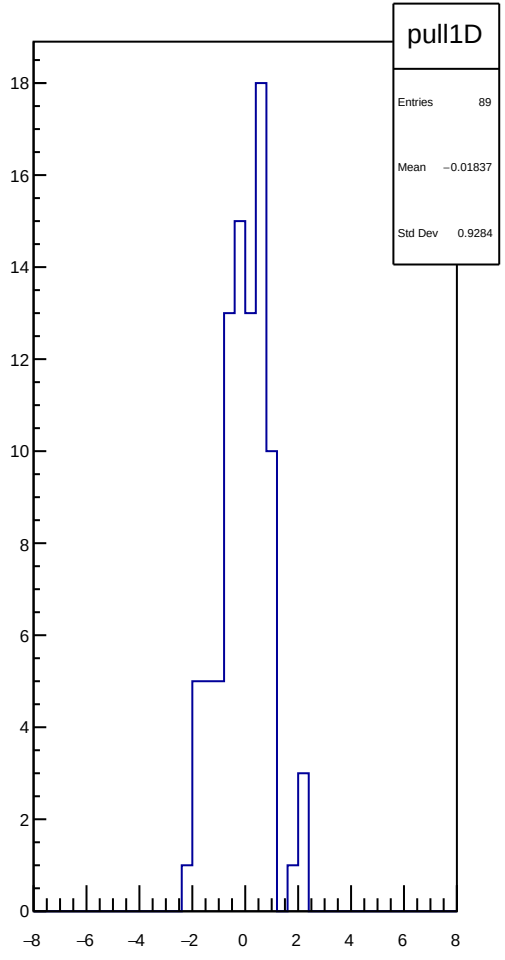

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 619.2 / 88
p0 1261 ± 0.9426
1300
1280
1260
1240
1220
1200
1180

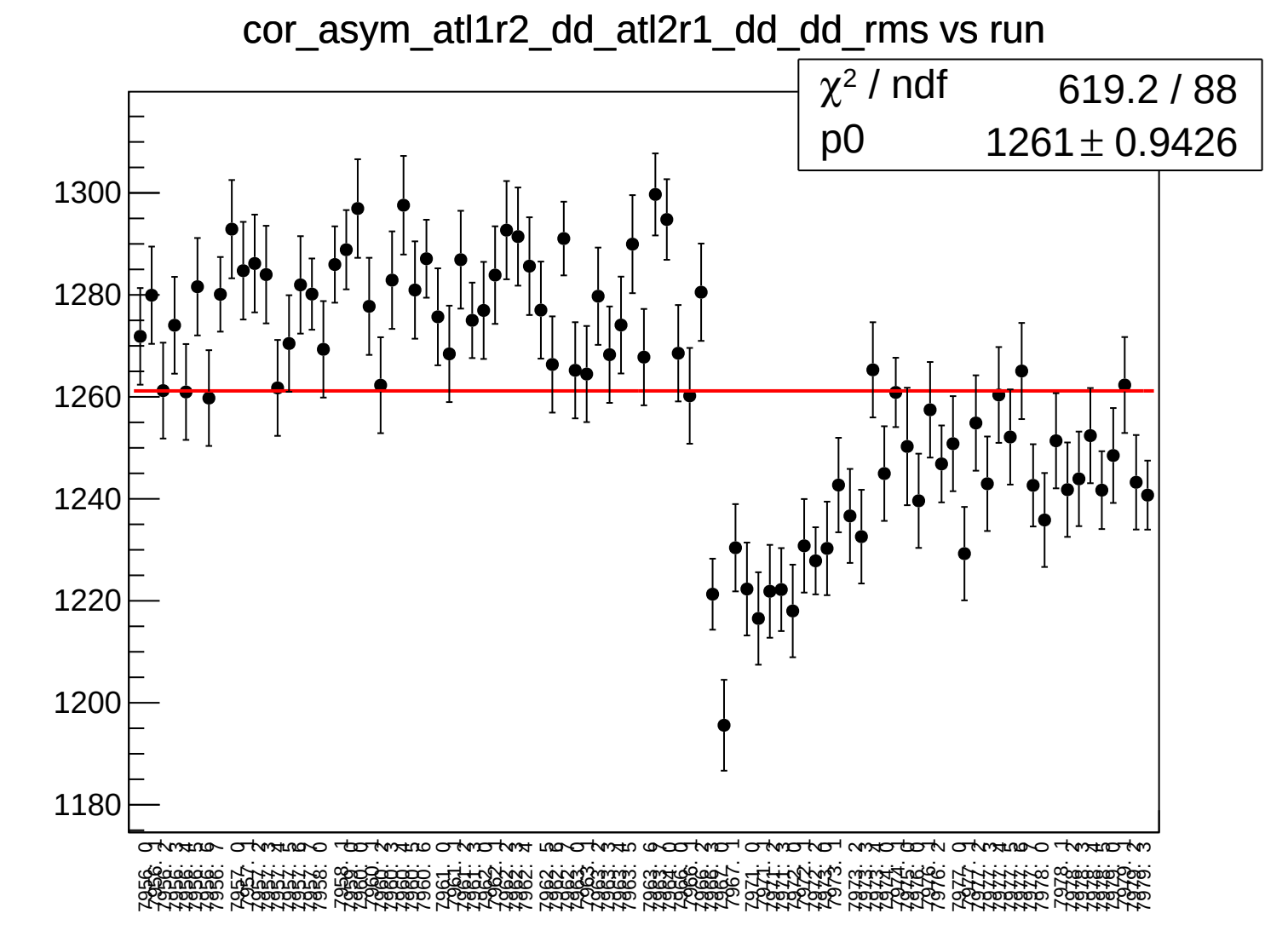

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.75 / 88
p0 −3490 ± 5634
pull
Entries 89
Mean −953.3
Std Dev 0

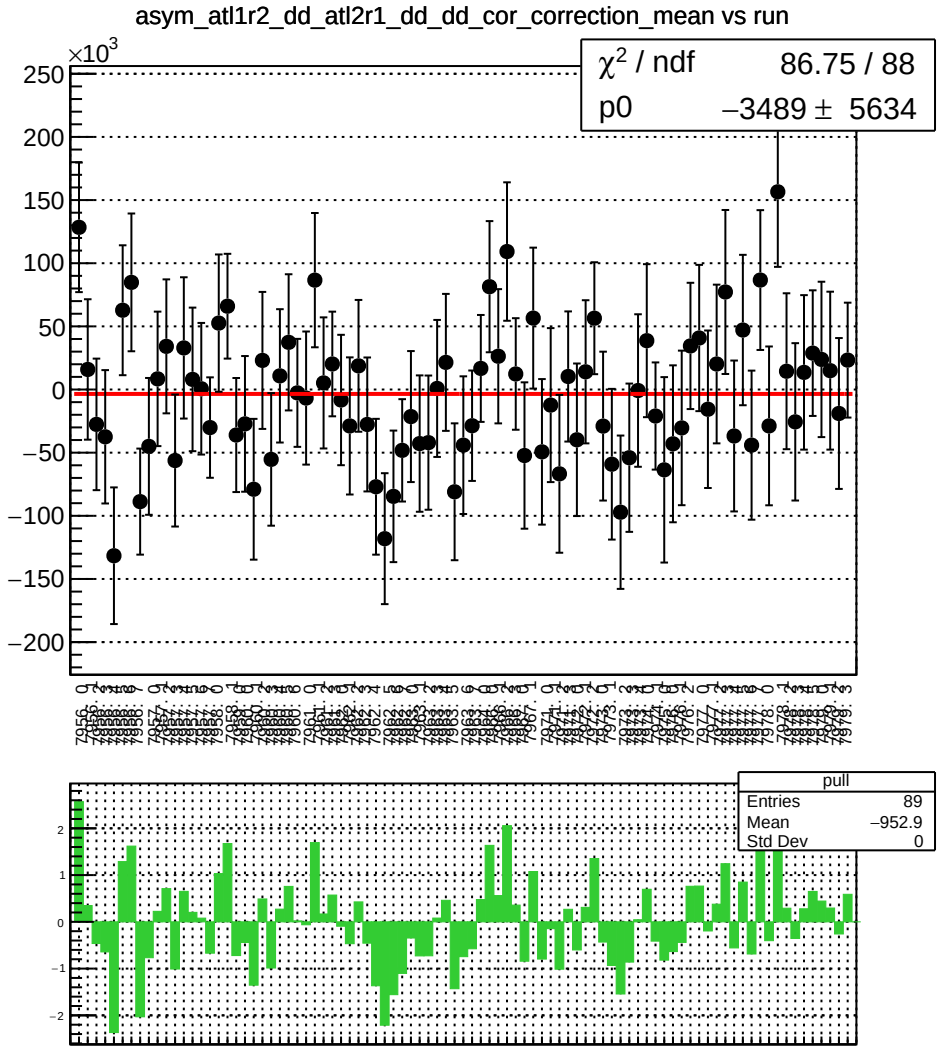

pull1D
Entries 89
Mean −0.002349
Std Dev 0.9873

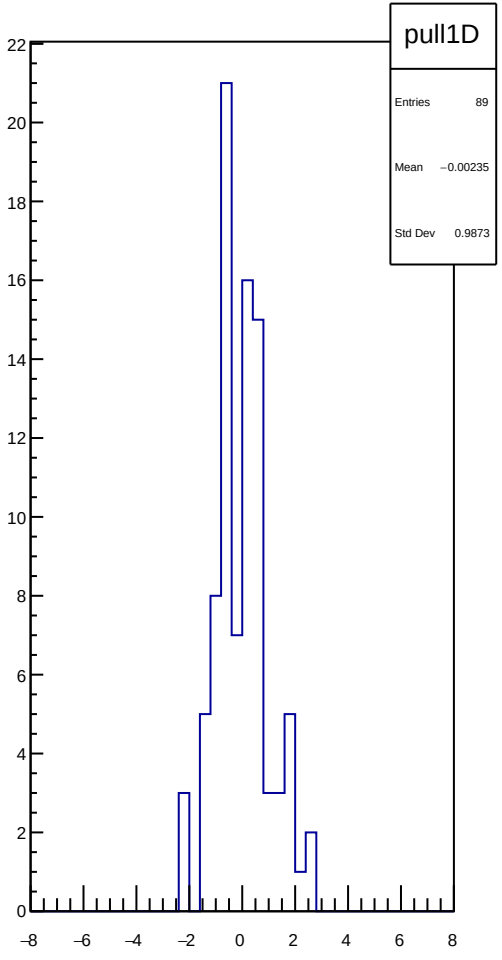

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 7770 / 88
p0 5319 ± 3.984
6200
6000
5800
5600
5400
5200
5000
4800

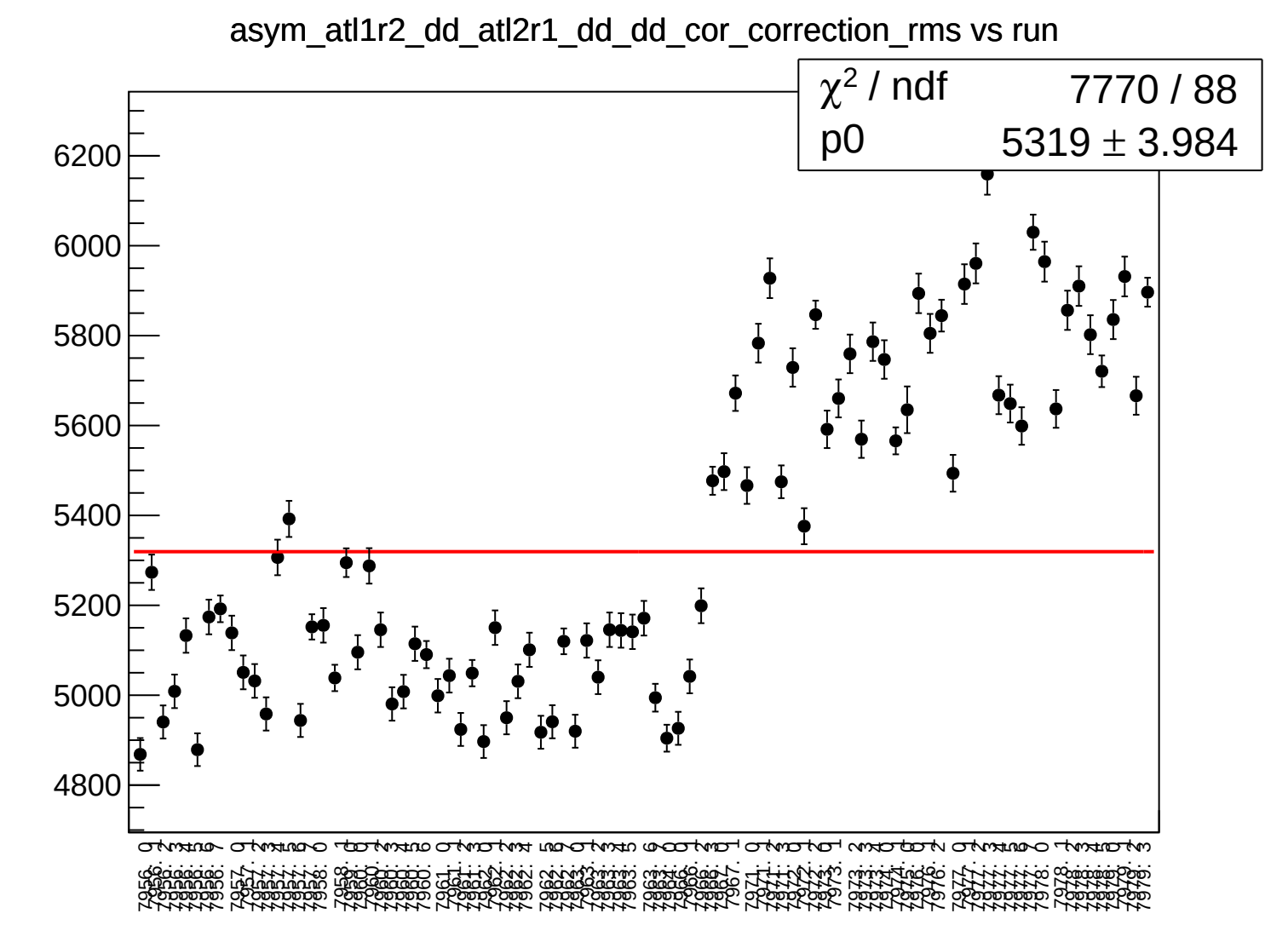

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.75 / 88
p0 447.3 ± 1333
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

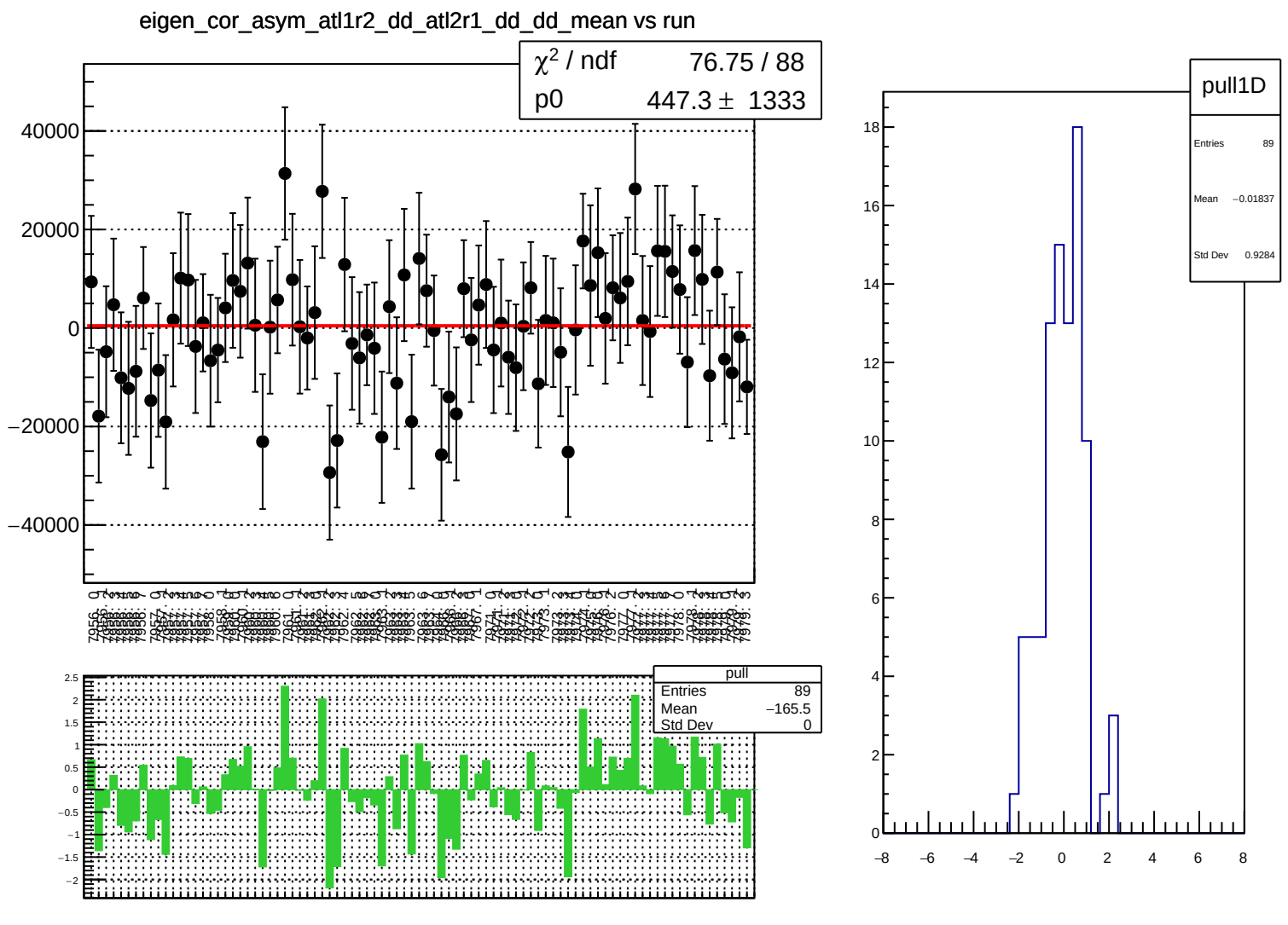

pull1D
Entries 89
Mean −0.01837
Std Dev 0.9284
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

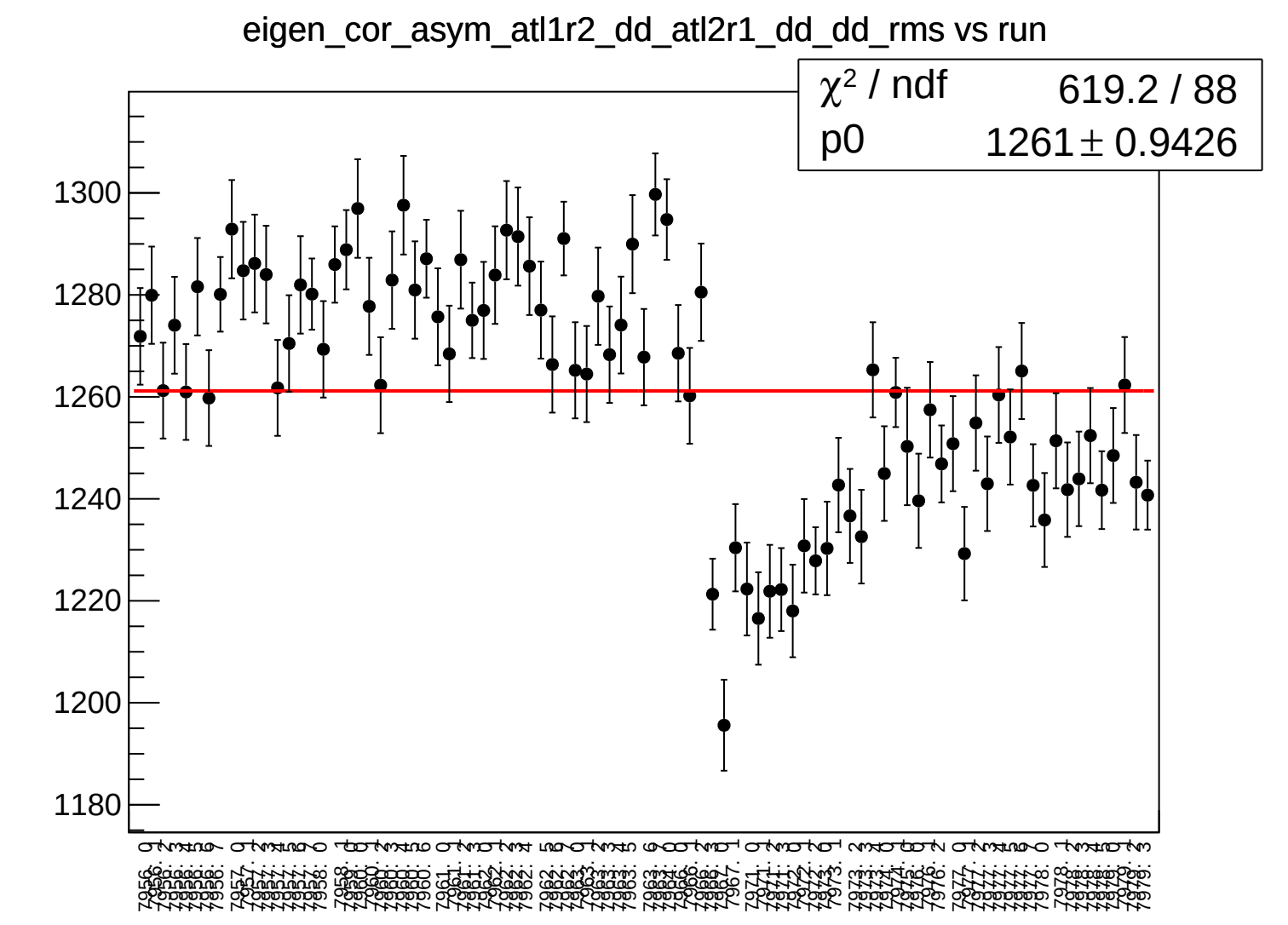

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 619.2 / 88
p0 1261 ± 0.9426
1300
1280
1260
1240
1220
1200
1180

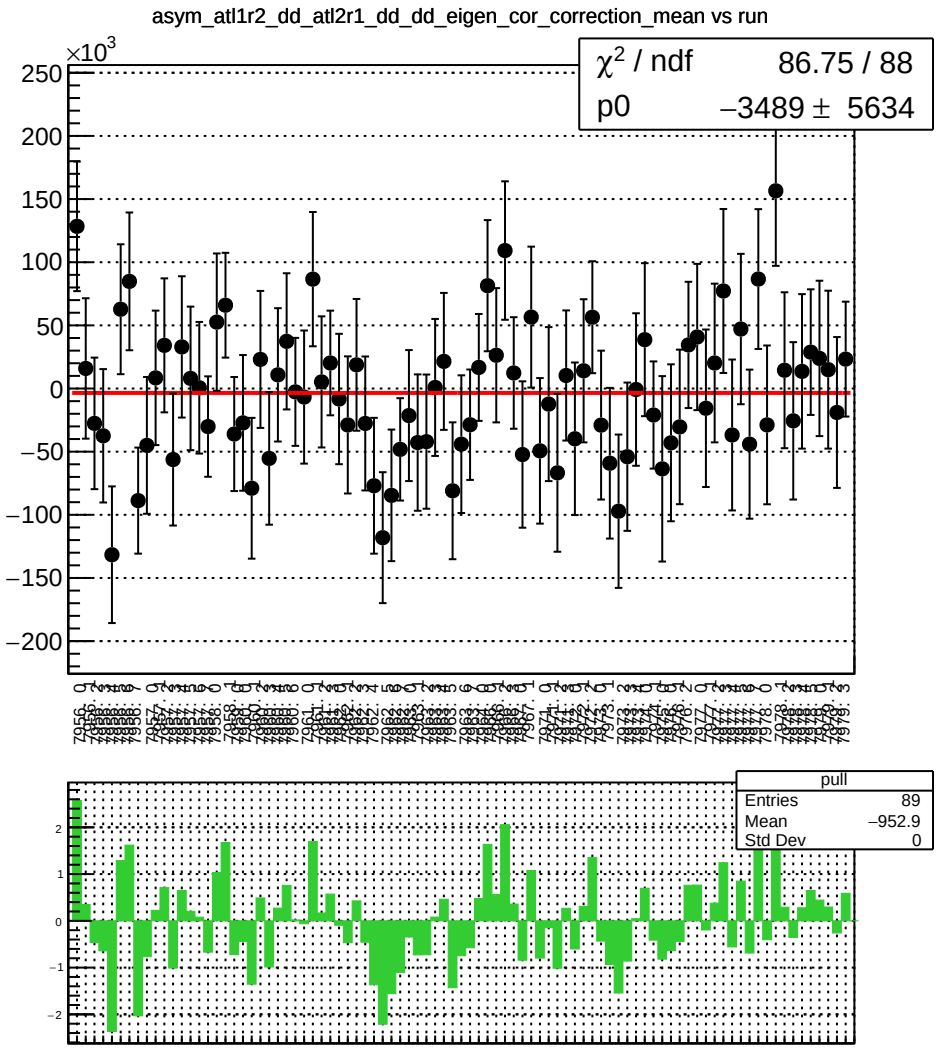

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.75 / 88
p0 −3489 ± 5634
pull
Entries 89
Mean −952.9
Std Dev 0

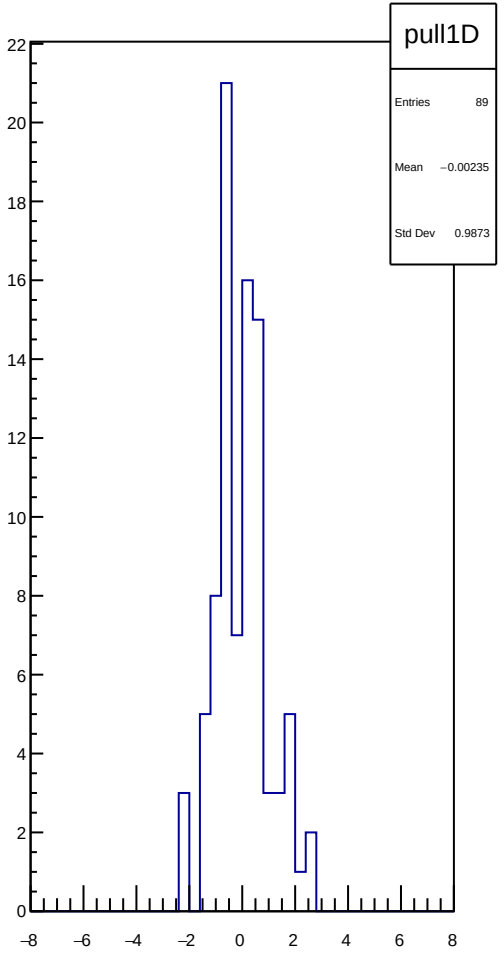

pull1D
Entries 89
Mean −0.00235
Std Dev 0.9873

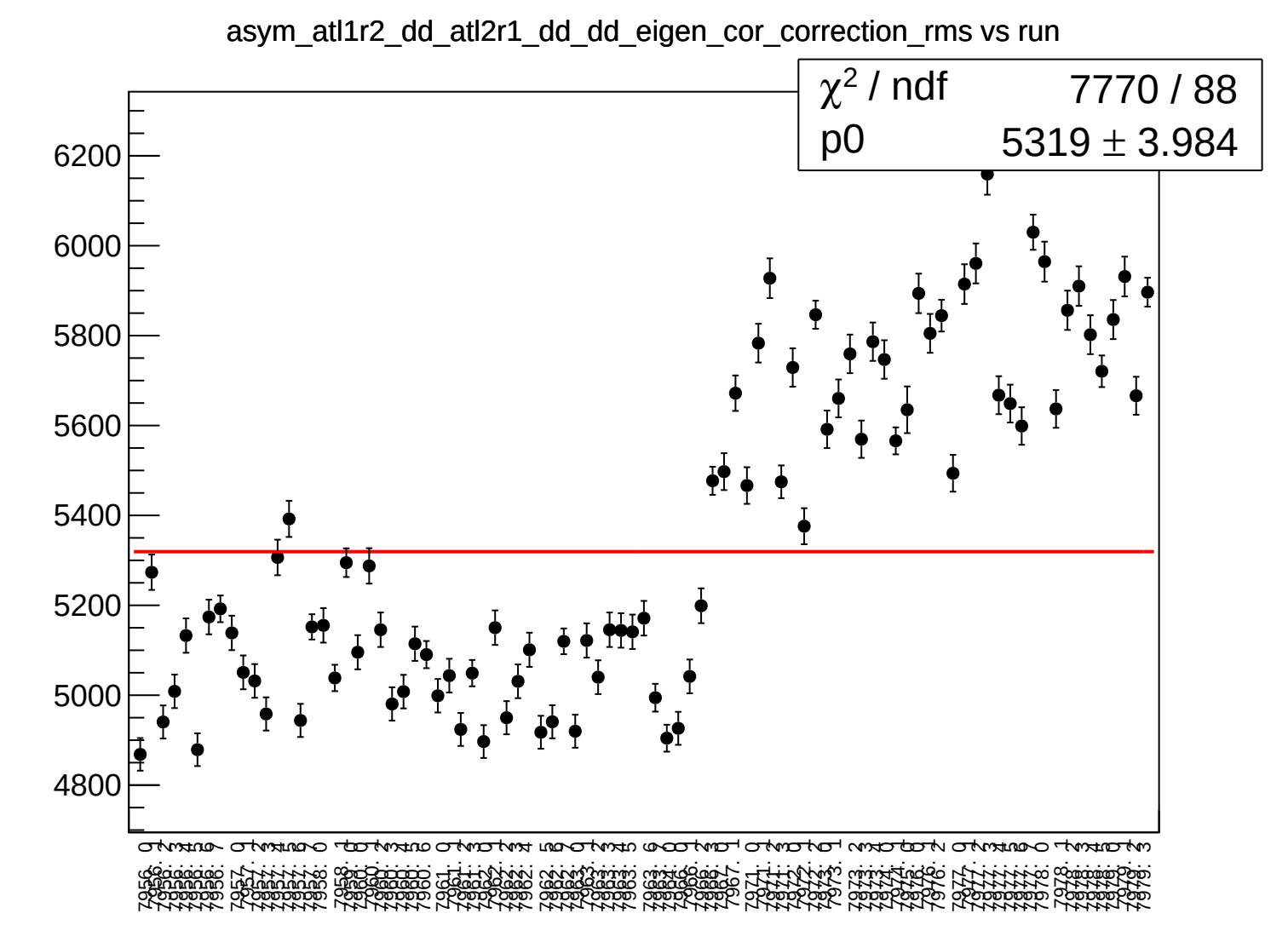

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 7770 / 88
p0 5319 ± 3.984
6200
6000
5800
5600
5400
5200
5000
4800

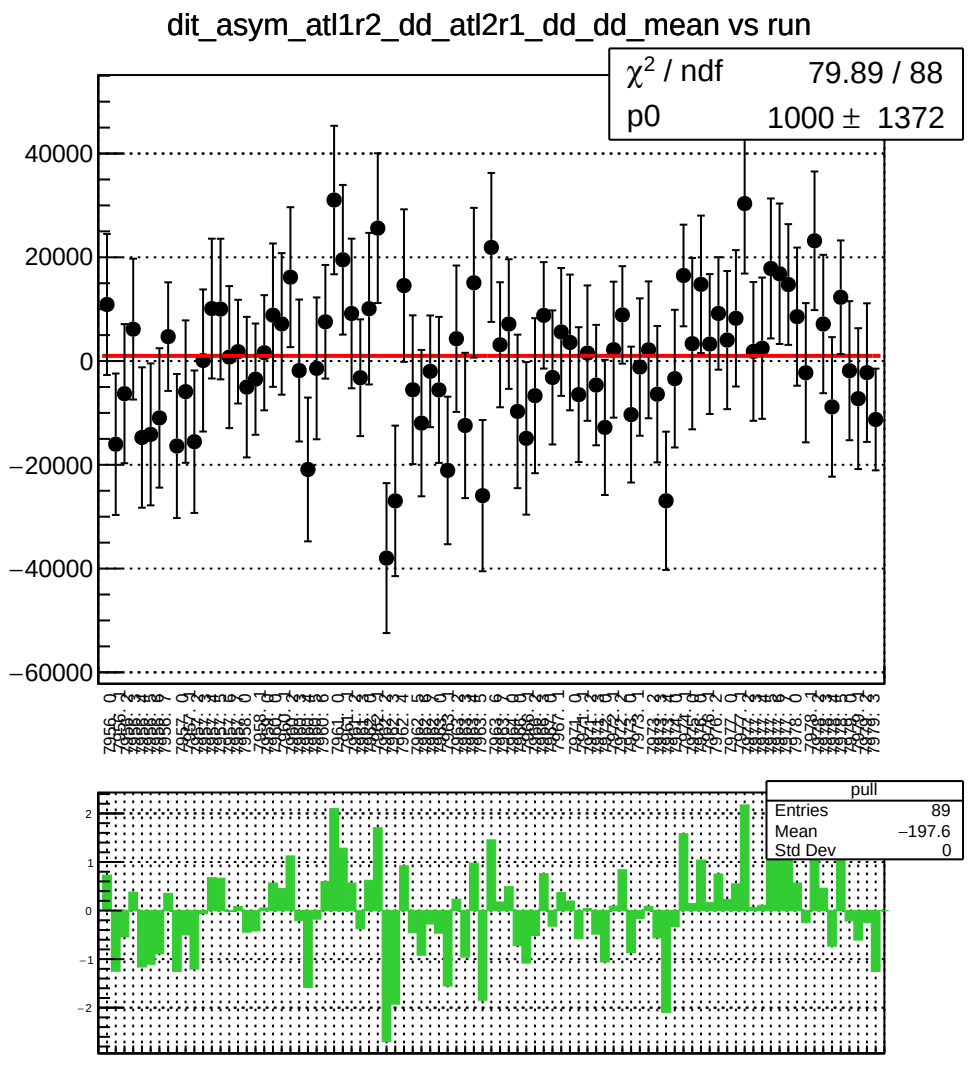

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.75 / 88
p0 447.3 ± 1333
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01837
Std Dev 0.9284
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

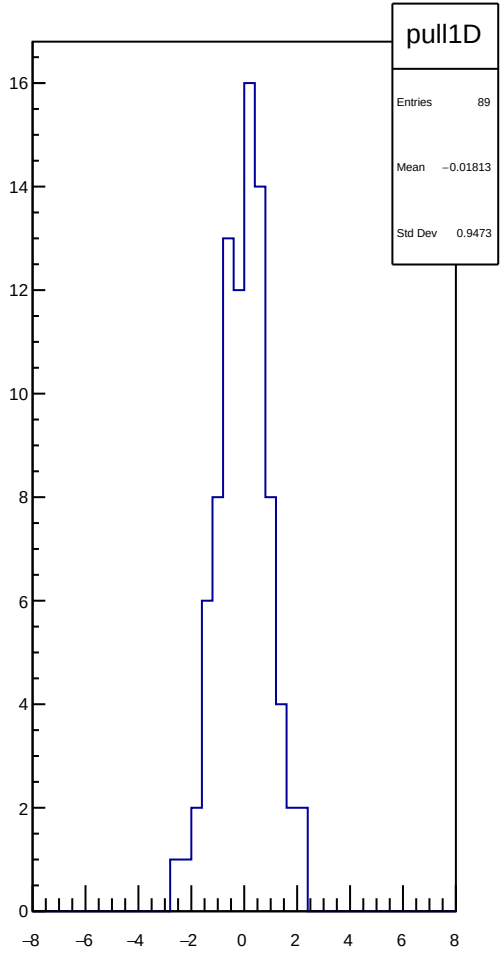

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 619.2 / 88
p0 1261 ± 0.9426
1300
1280
1260
1240
1220
1200
1180

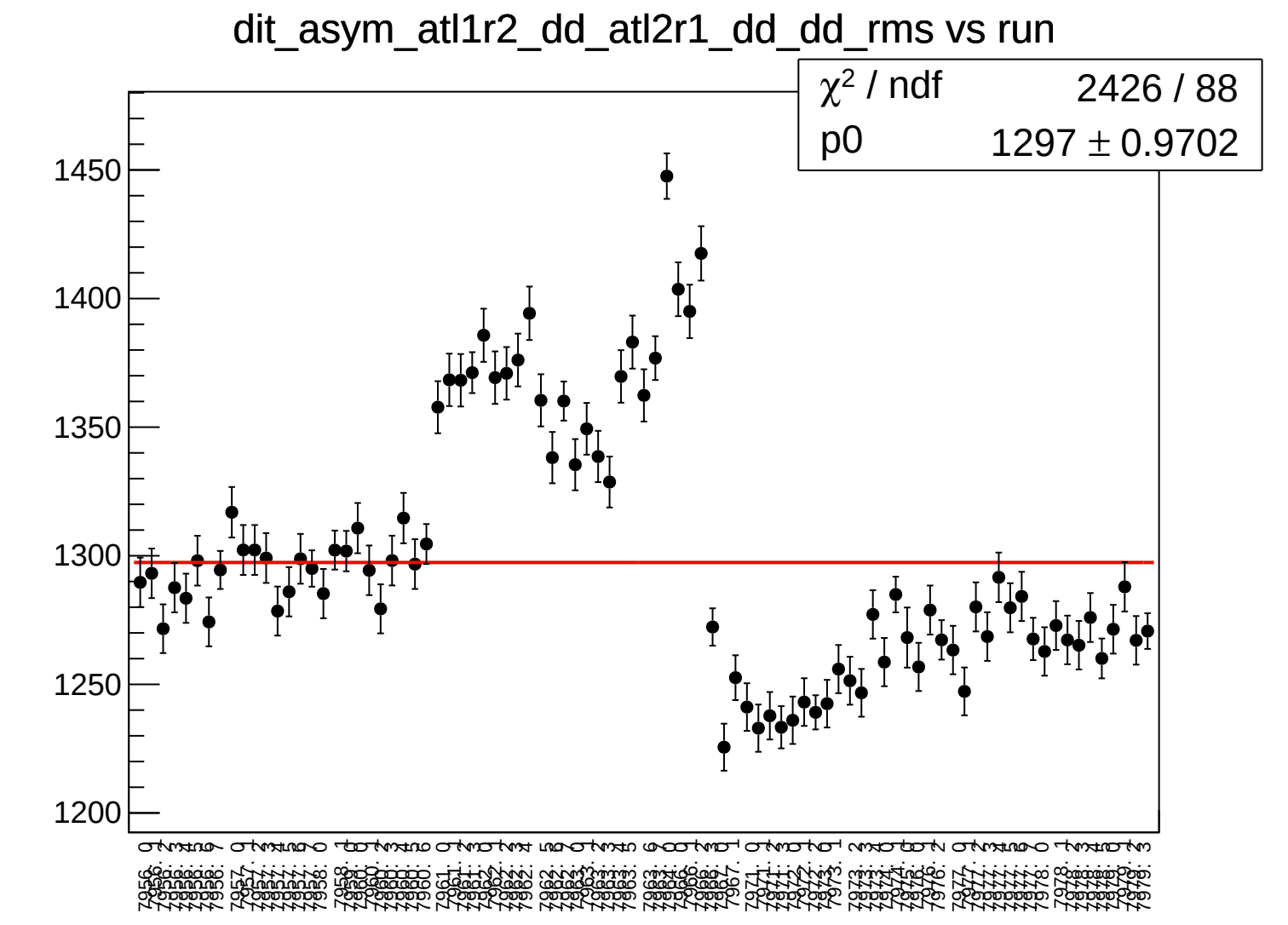

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.75 / 88
p0 −3489 ± 5634
250
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −952.9
Std Dev 0
2
1
0
−1
−2

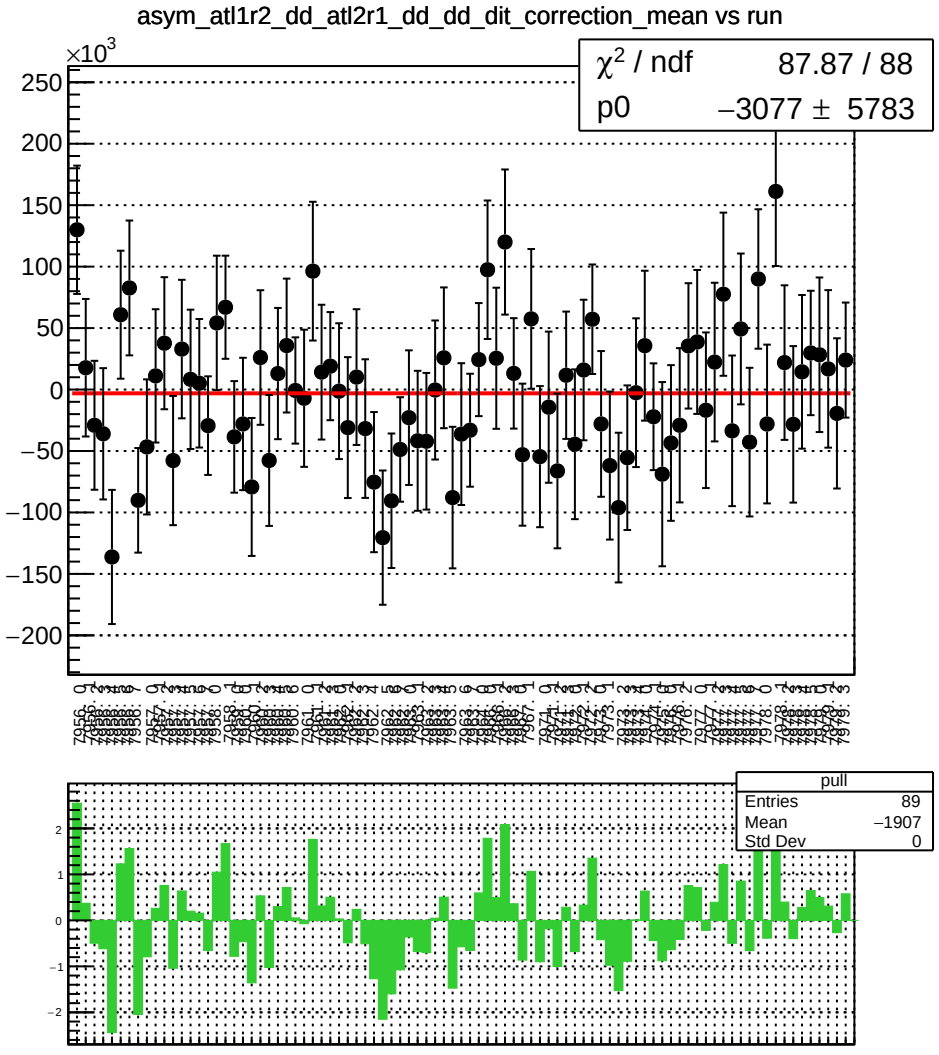

pull1D
Entries 89
Mean −0.00235
Std Dev 0.9873
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

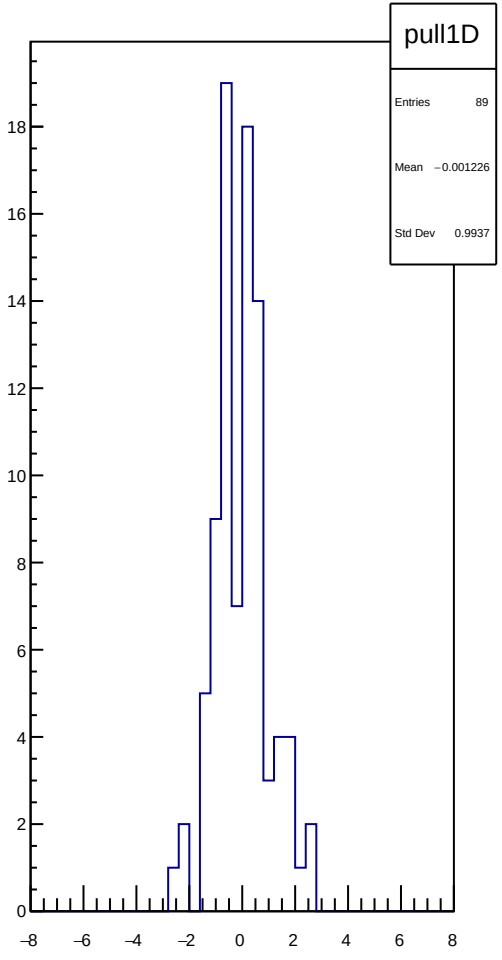

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7770 / 88
p0 5319 ± 3.984
6200
6000
5800
5600
5400
5200
5000
4800

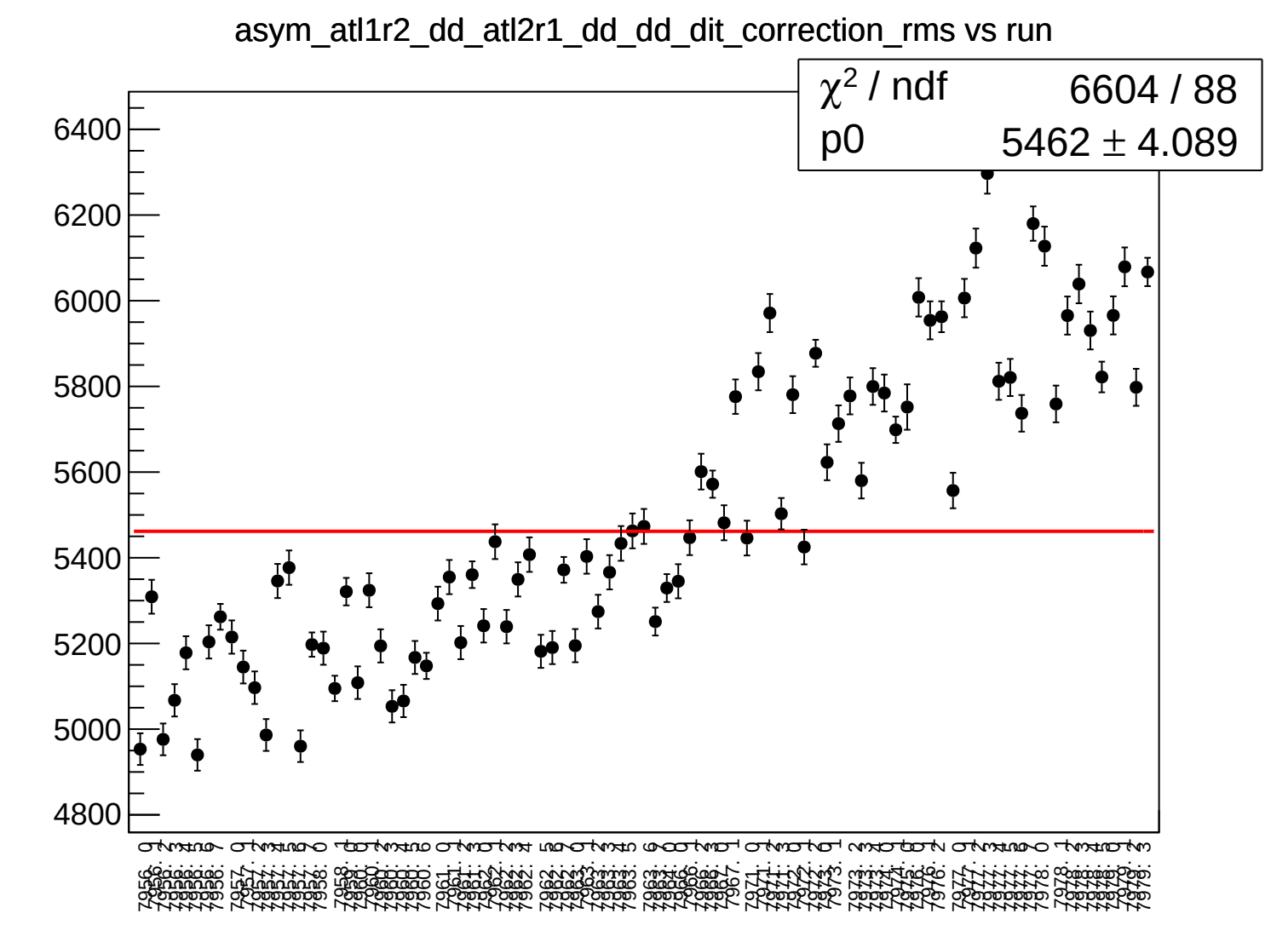

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 79.89 / 88
p0 1000 ± 1372
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −197.6
Std Dev 0
2
1
0
−1
−2

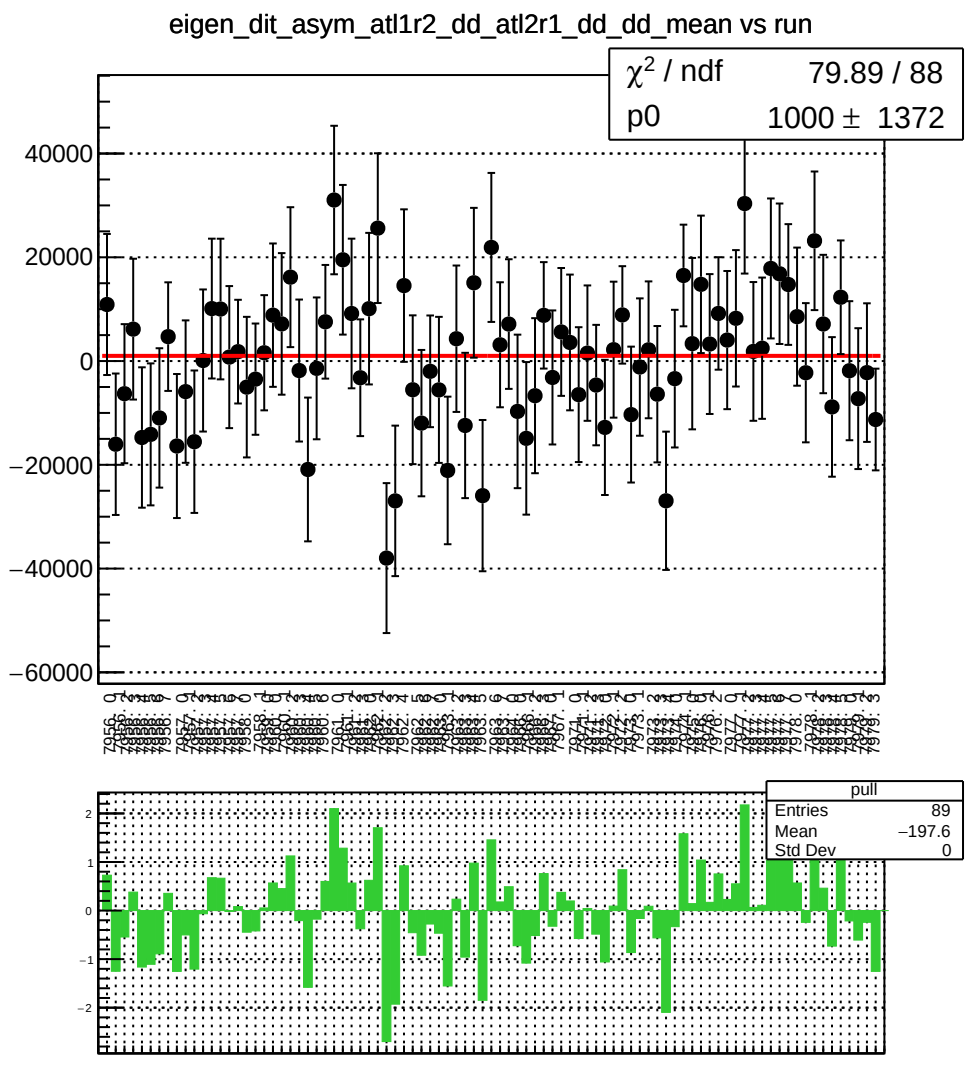

pull1D
Entries 89
Mean −0.01813
Std Dev 0.9473
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

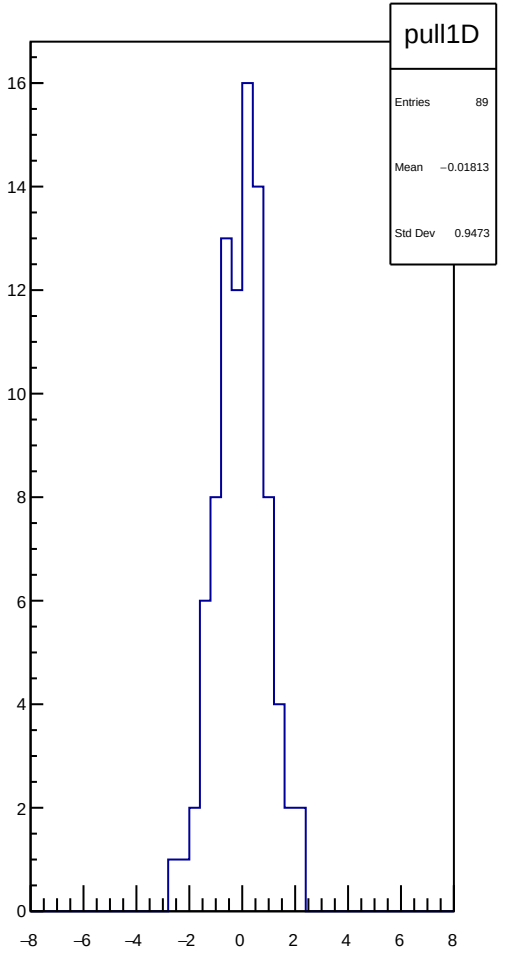

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2426 / 88
p0 1297 ± 0.9702
1450
1400
1350
1300
1250
1200

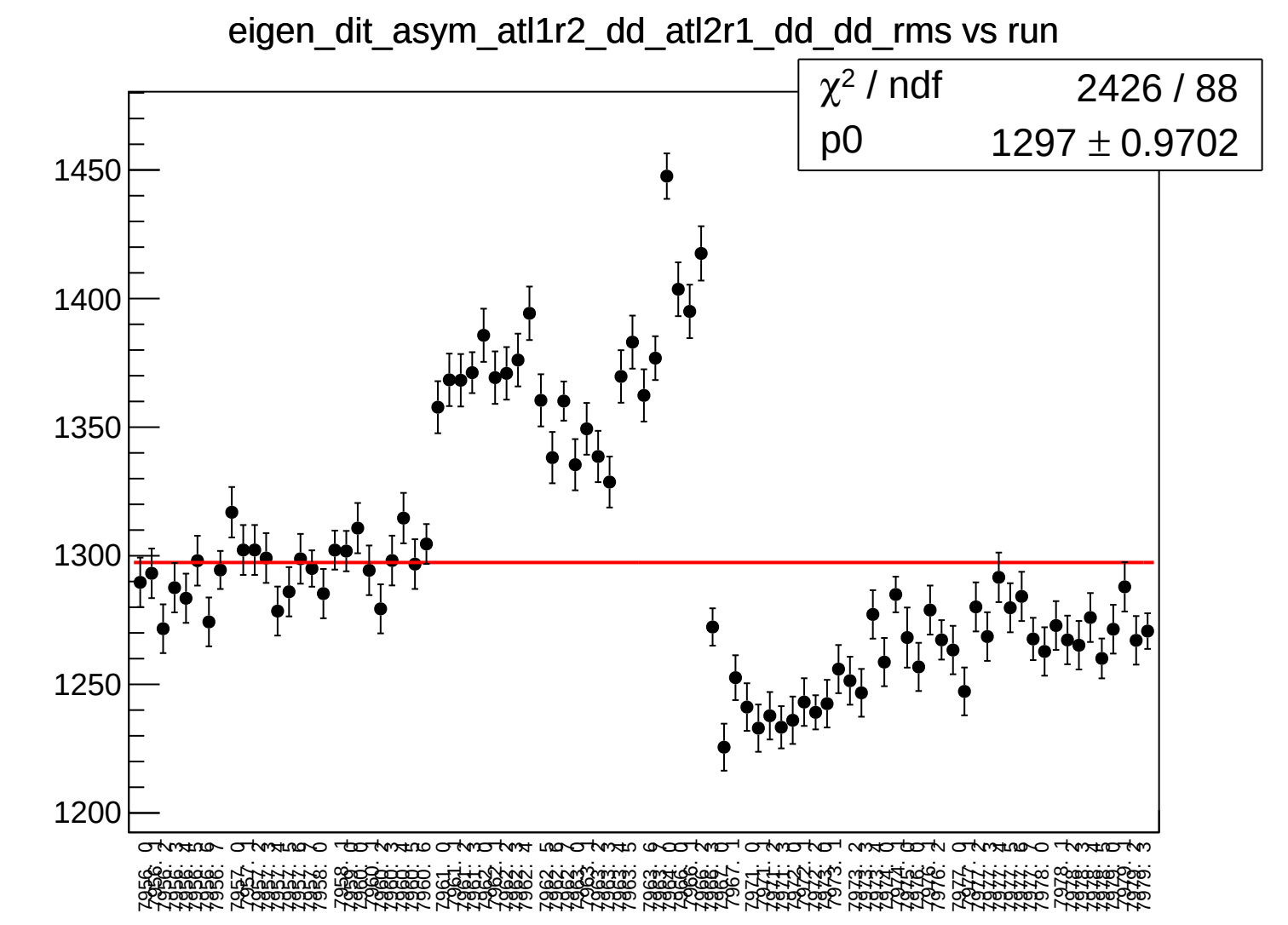

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.87 / 88
p0 −3077 ± 5783
pull
Entries 89
Mean −1907
Std Dev 0

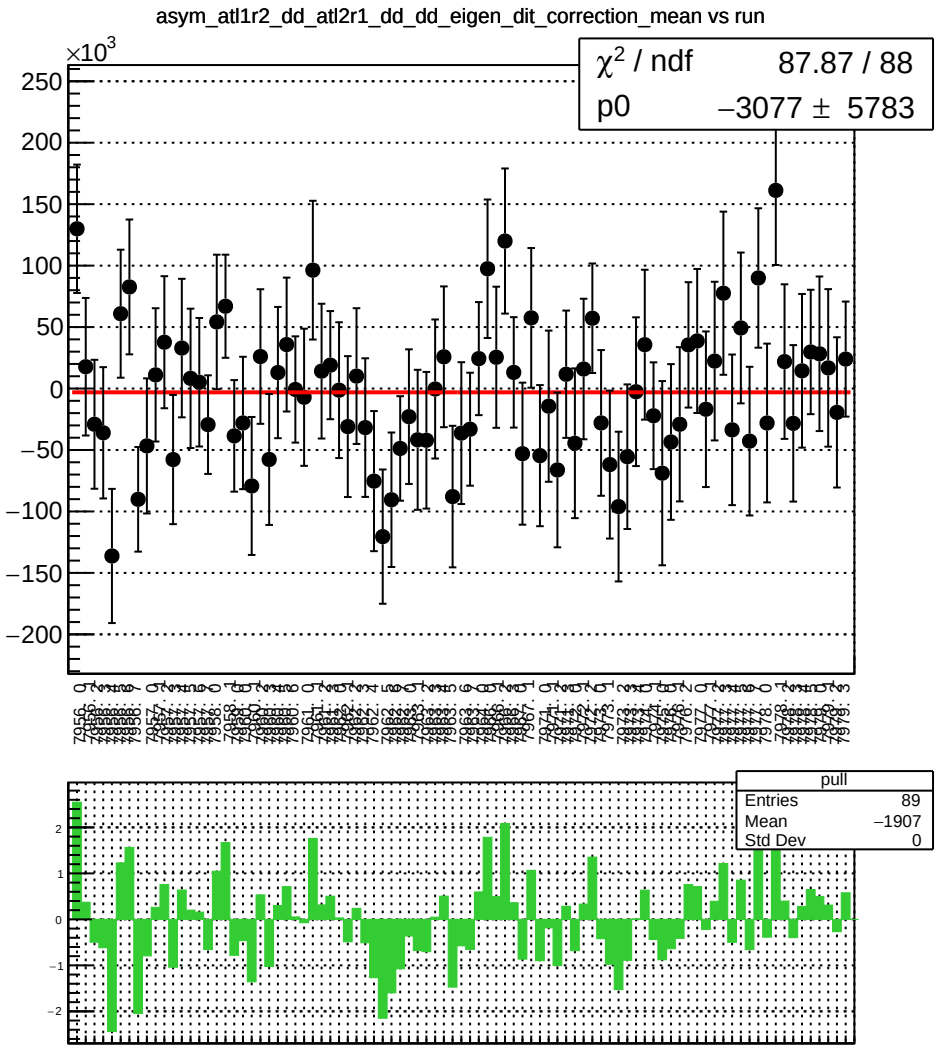

pull1D
Entries 89
Mean −0.001226
Std Dev 0.9937

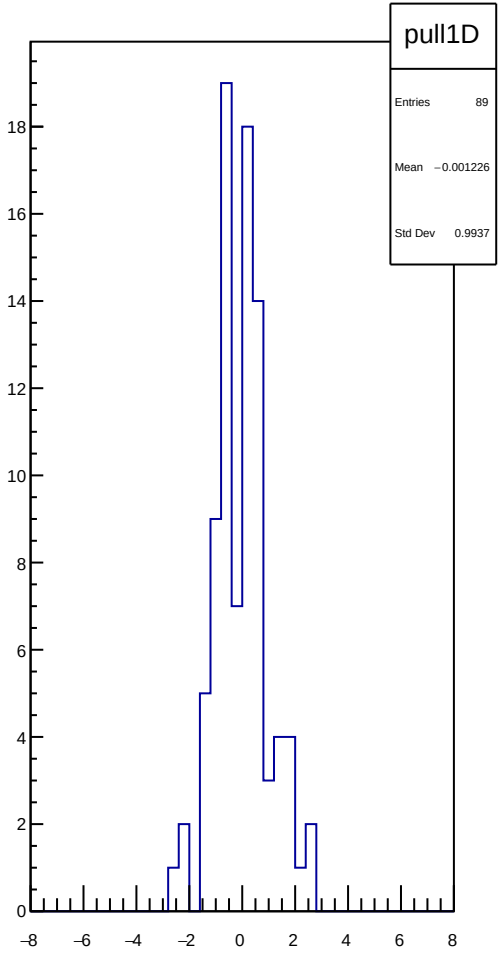

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 6604 / 88
p0 5462 ± 4.089
6400
6200
6000
5800
5600
5400
5200
5000
4800

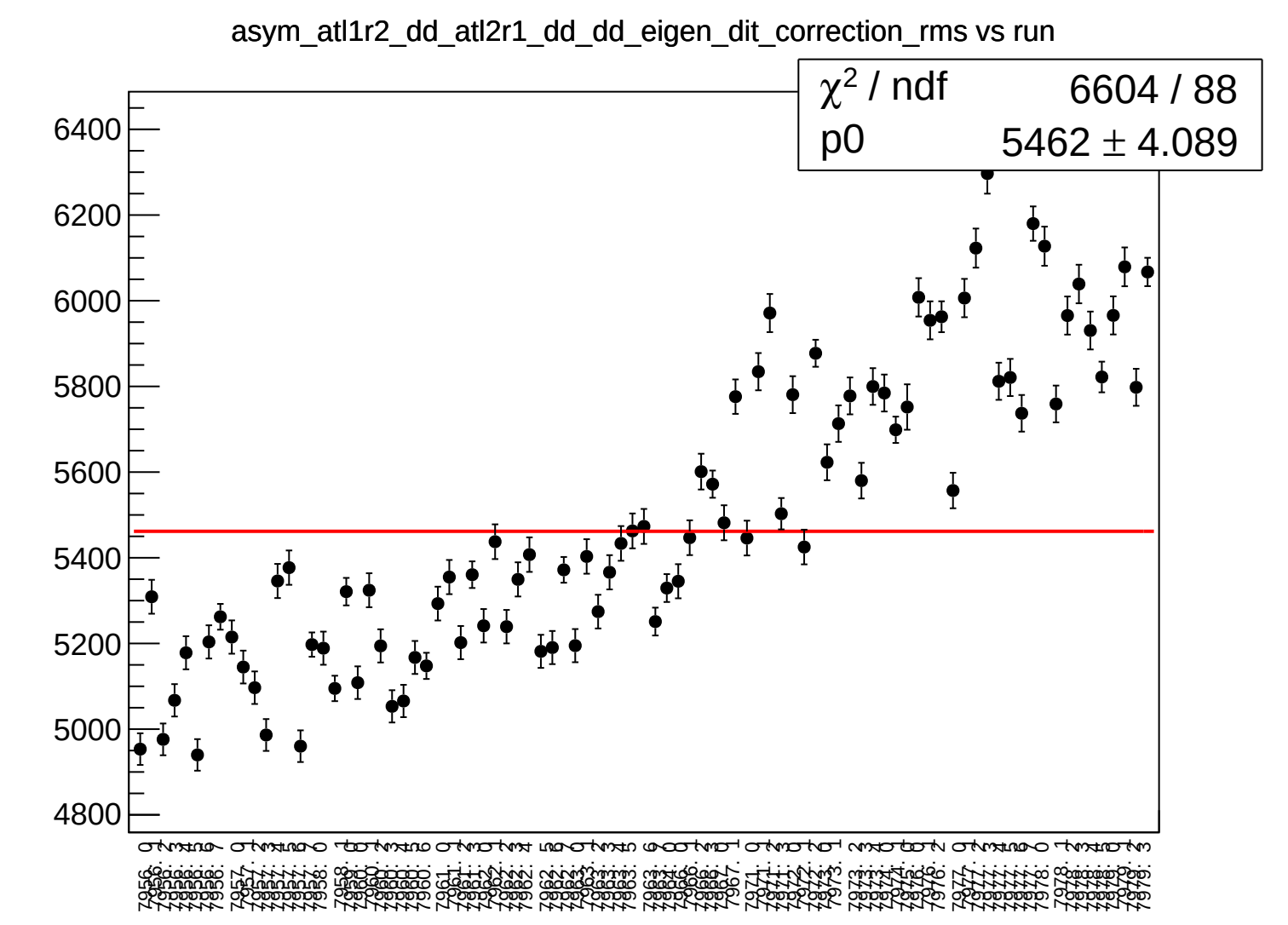

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 79.89 / 88
p0 1000 ± 1372
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −197.6
Std Dev 0
2
1
0
−1
−2

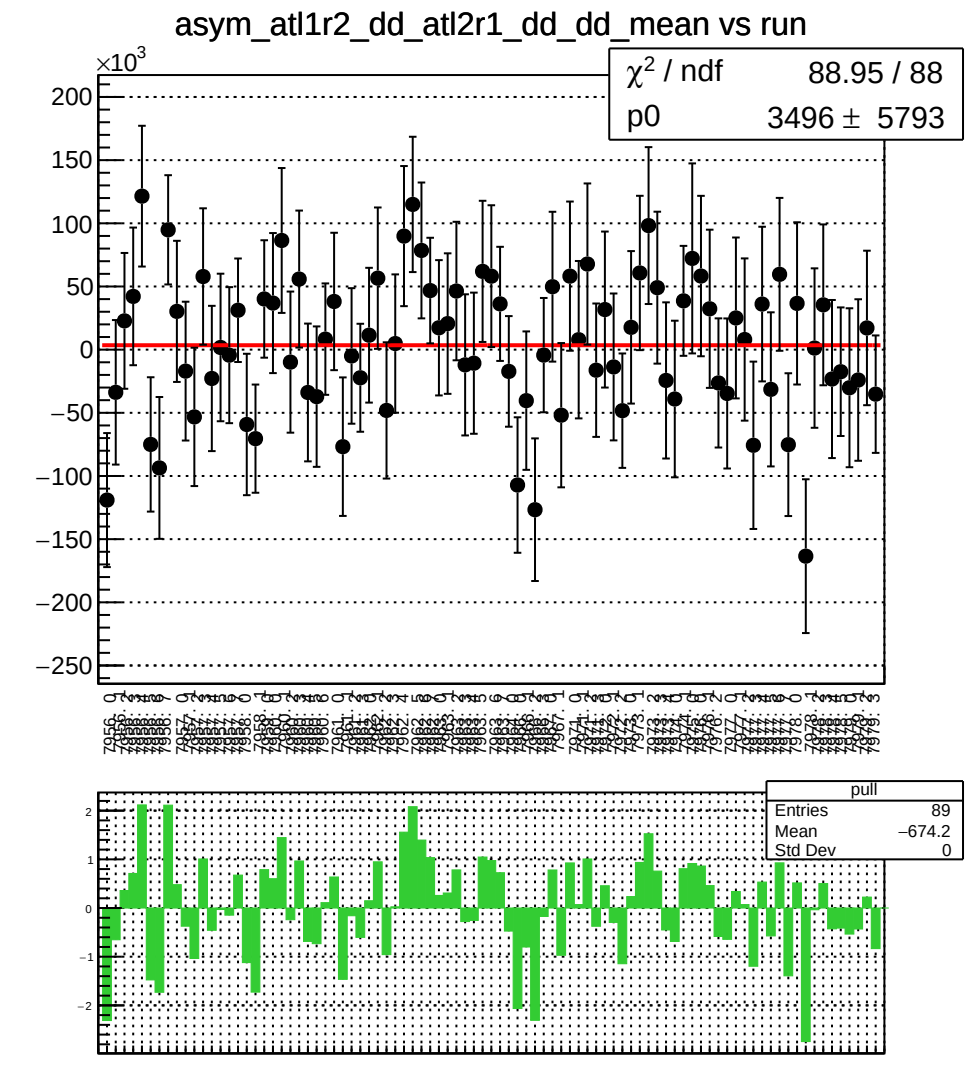

pull1D
Entries 89
Mean −0.01813
Std Dev 0.9473
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

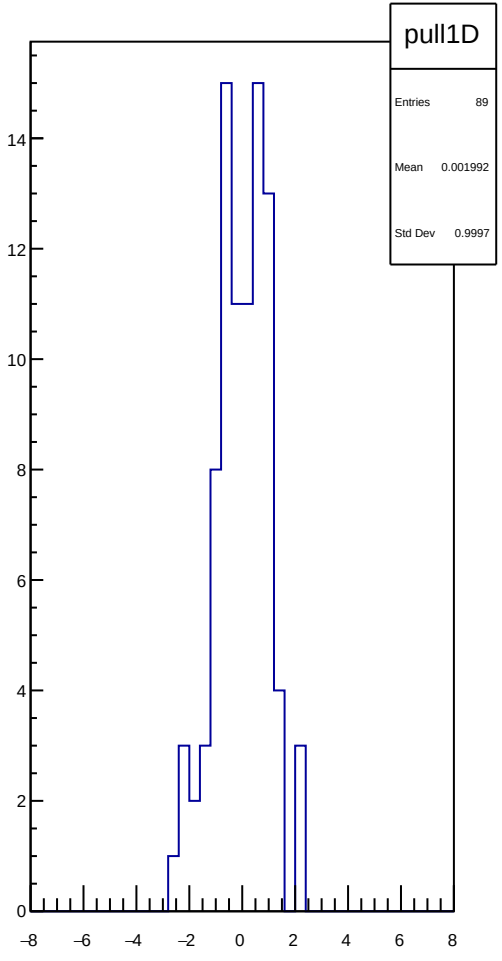

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2426 / 88
p0 1297 ± 0.9702
1450
1400
1350
1300
1250
1200

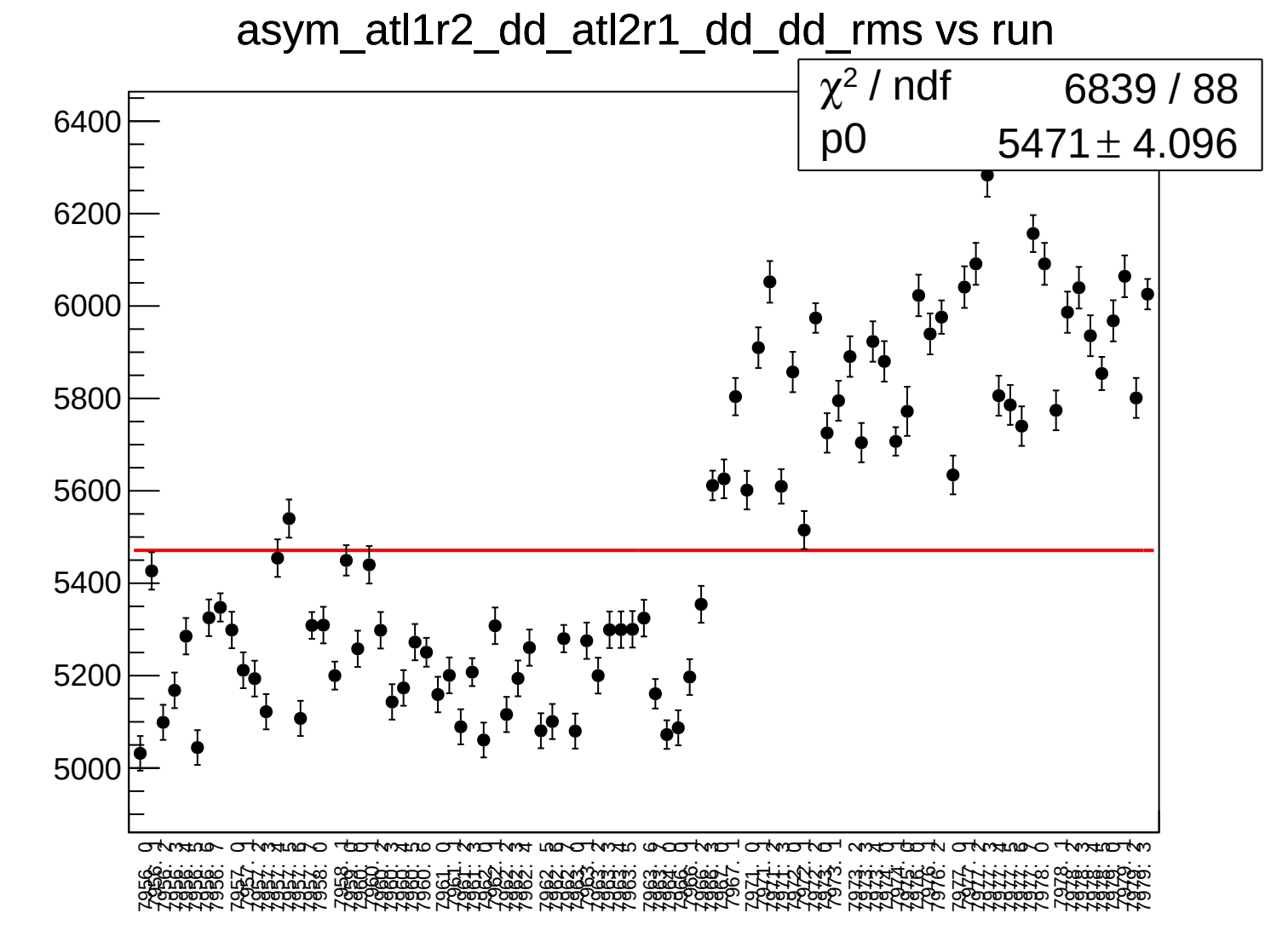

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.87 / 88
p0 −3077 ± 5783
pull
Entries 89
Mean −1907
Std Dev 0

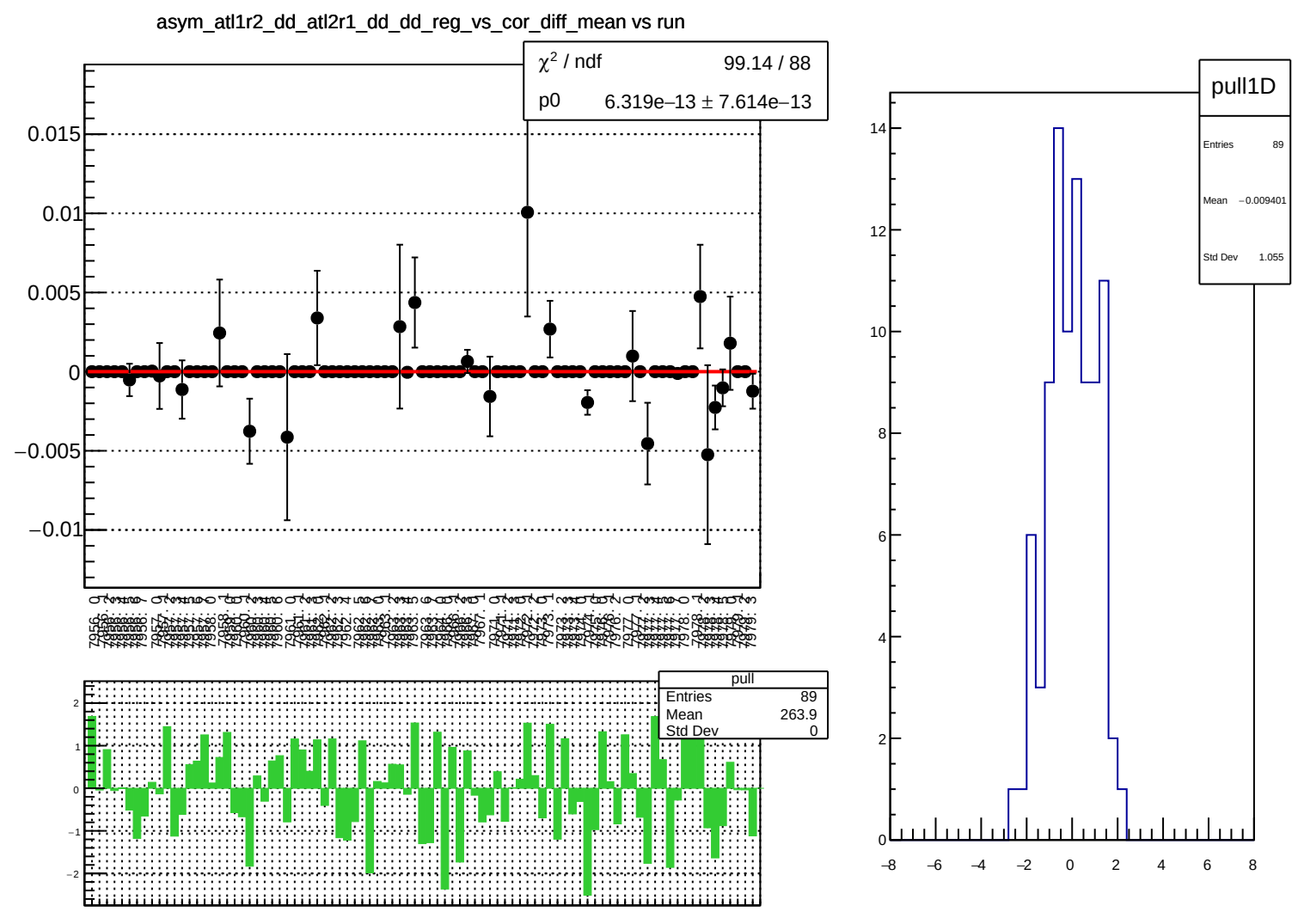

pull1D
Entries 89
Mean −0.001226
Std Dev 0.9937

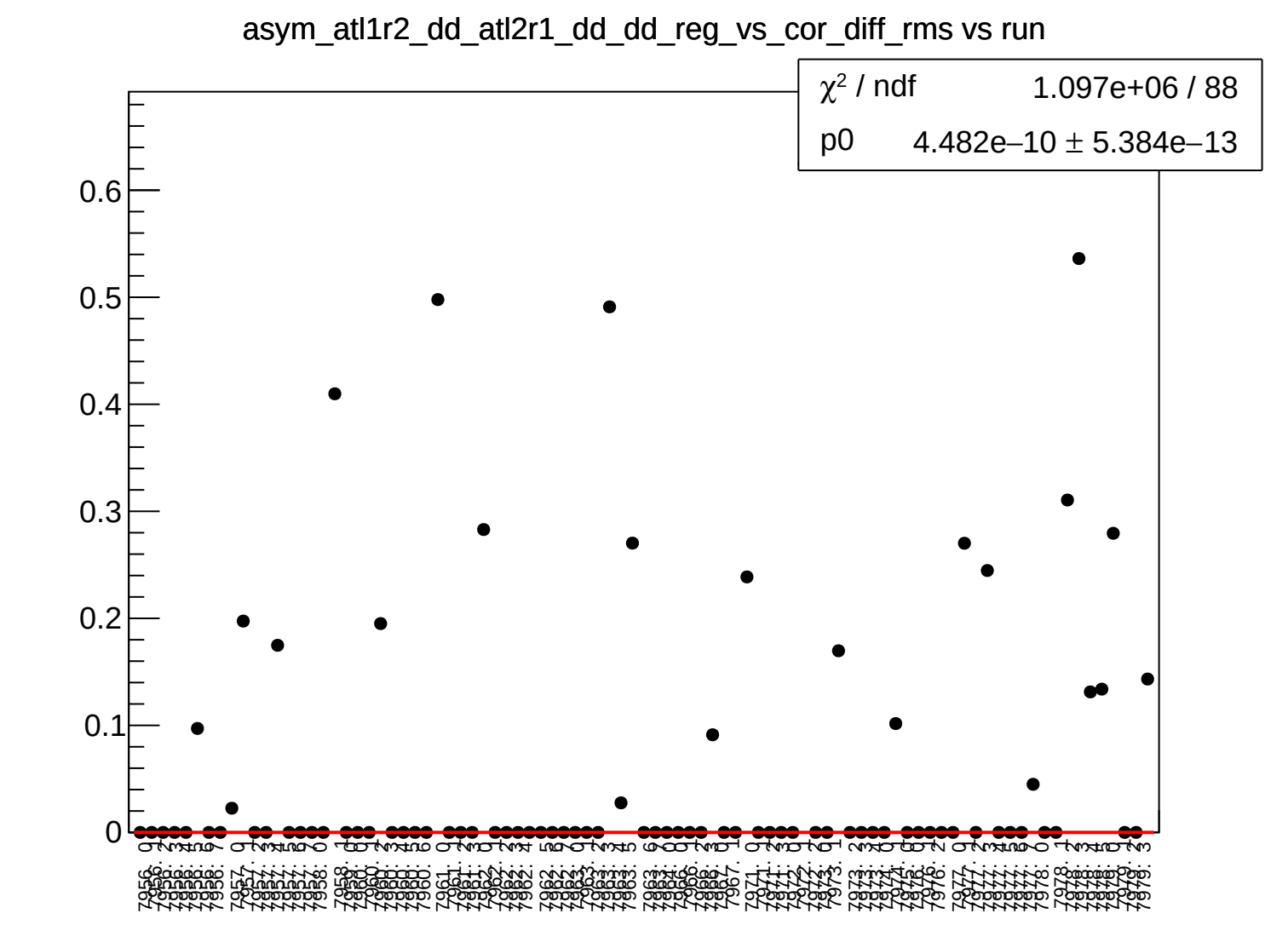

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6604 / 88
p0 5462 ± 4.089
6400
6200
6000
5800
5600
5400
5200
5000
4800

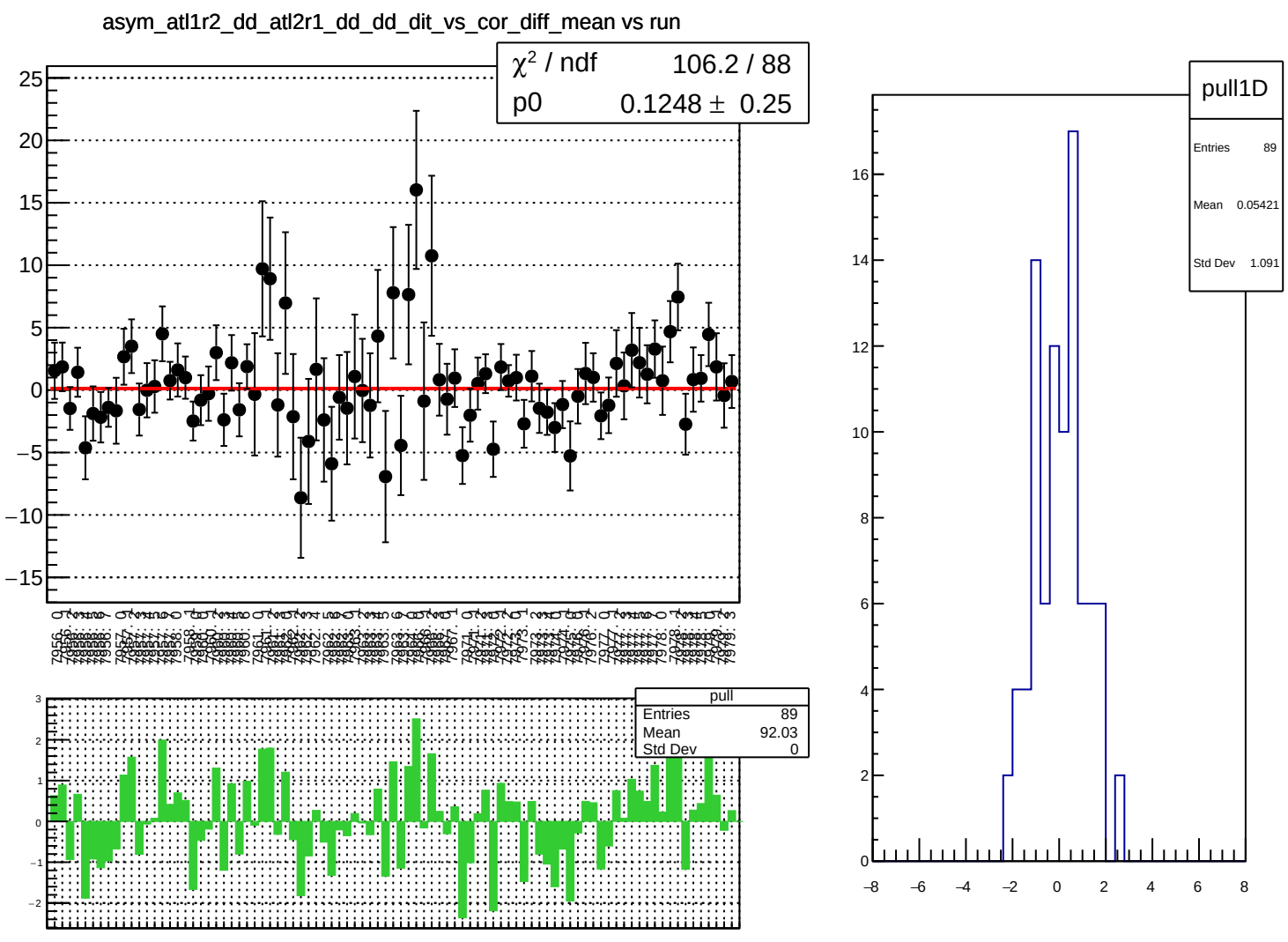

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 88.95 / 88
p0 3496 ± 5793
pull
Entries 89
Mean −674.2
Std Dev 0

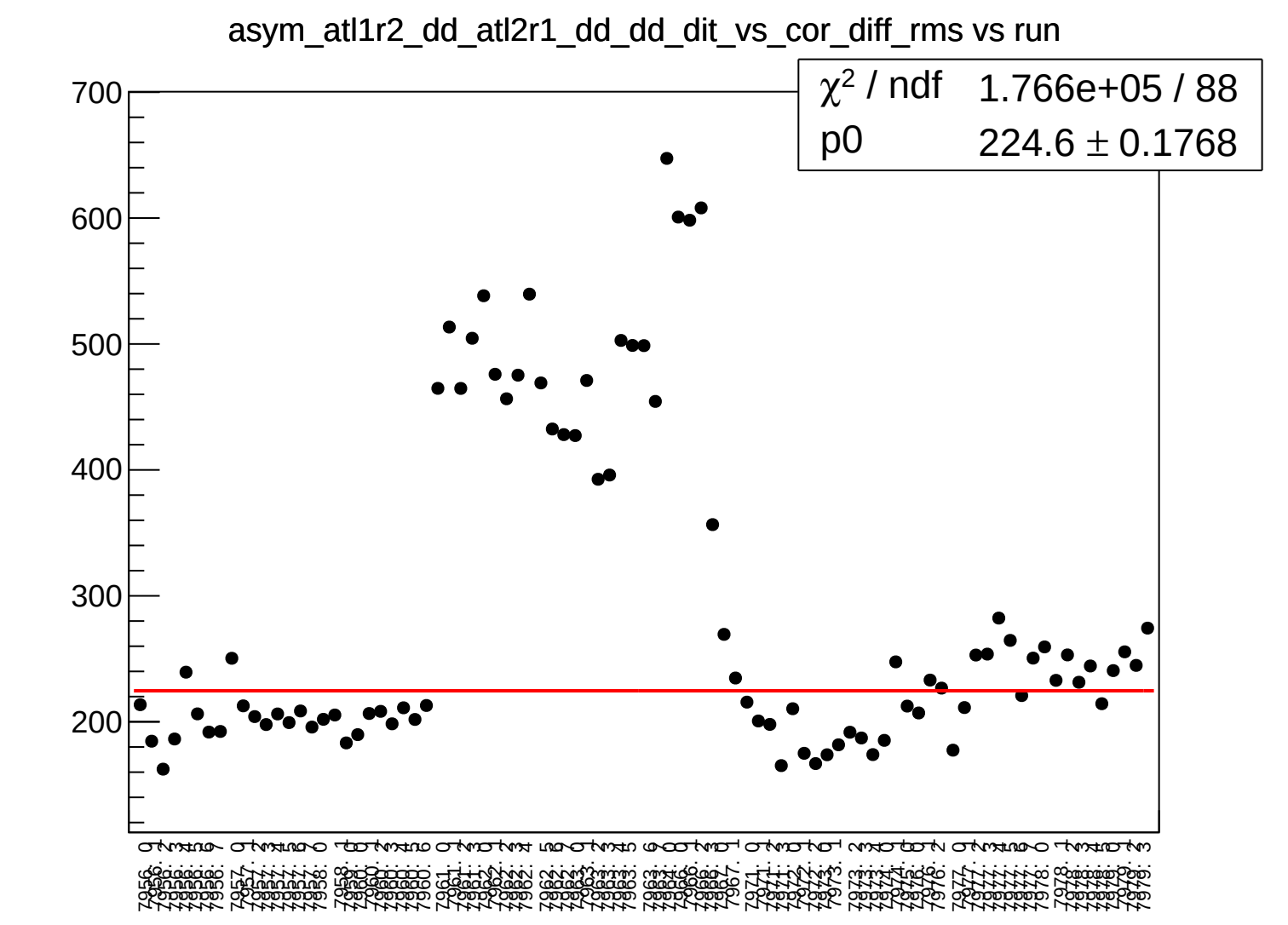

pull1D
Entries 89
Mean 0.001992
Std Dev 0.9997

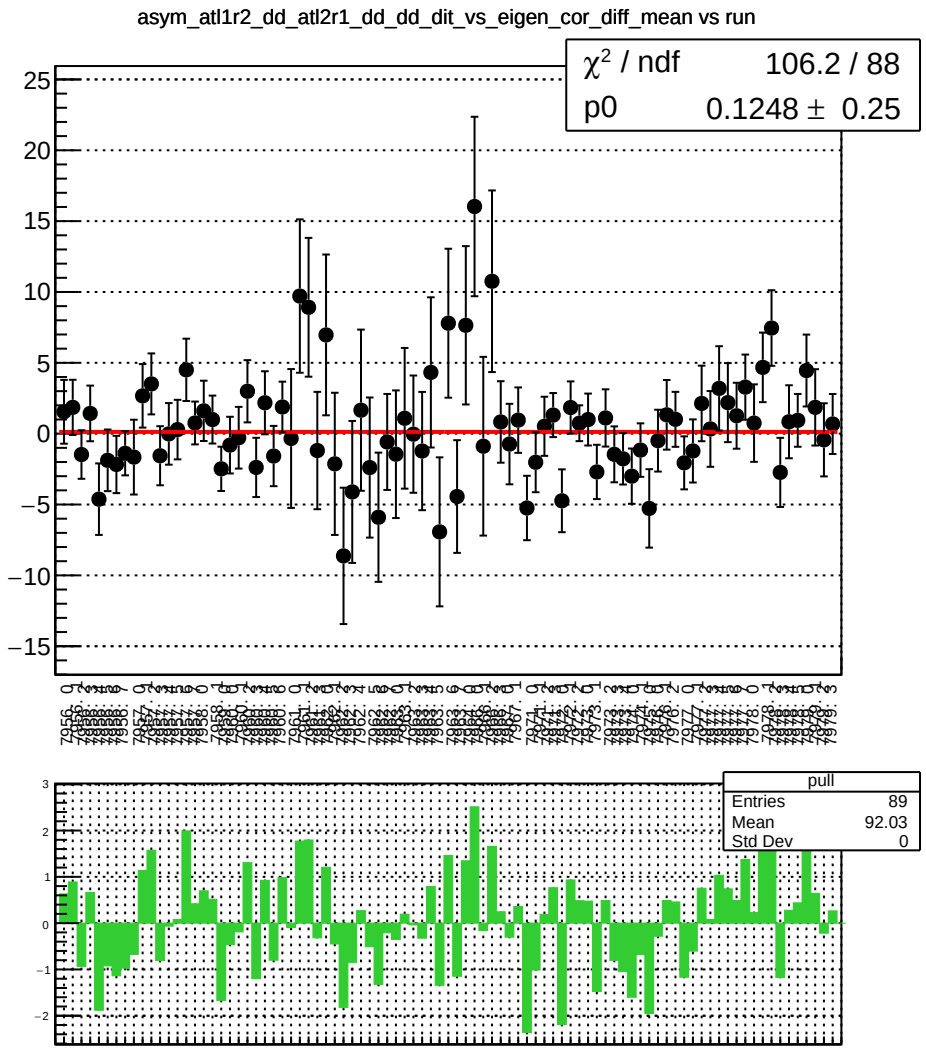

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 6839 / 88
p0 5471 ± 4.096
6400
6200
6000
5800
5600
5400
5200
5000

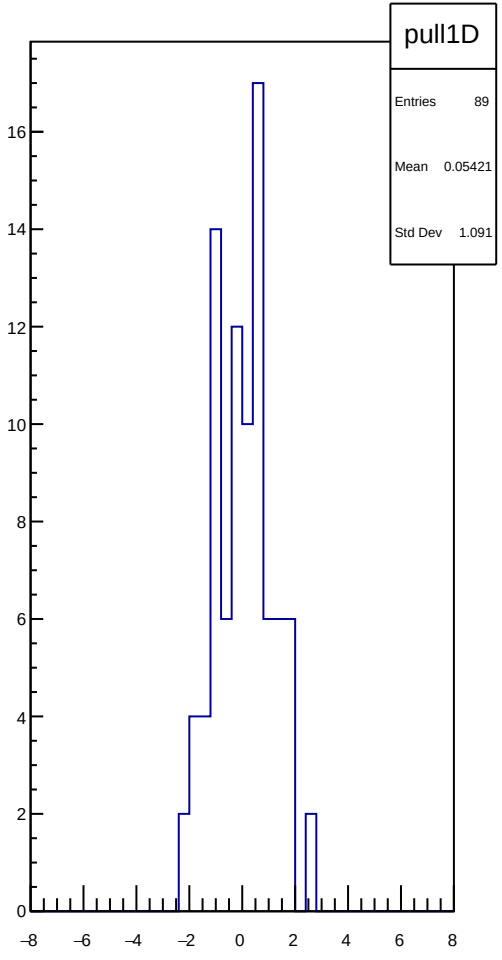

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.14 / 88
p0 6.319e−13 ± 7.614e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 263.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.009401
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

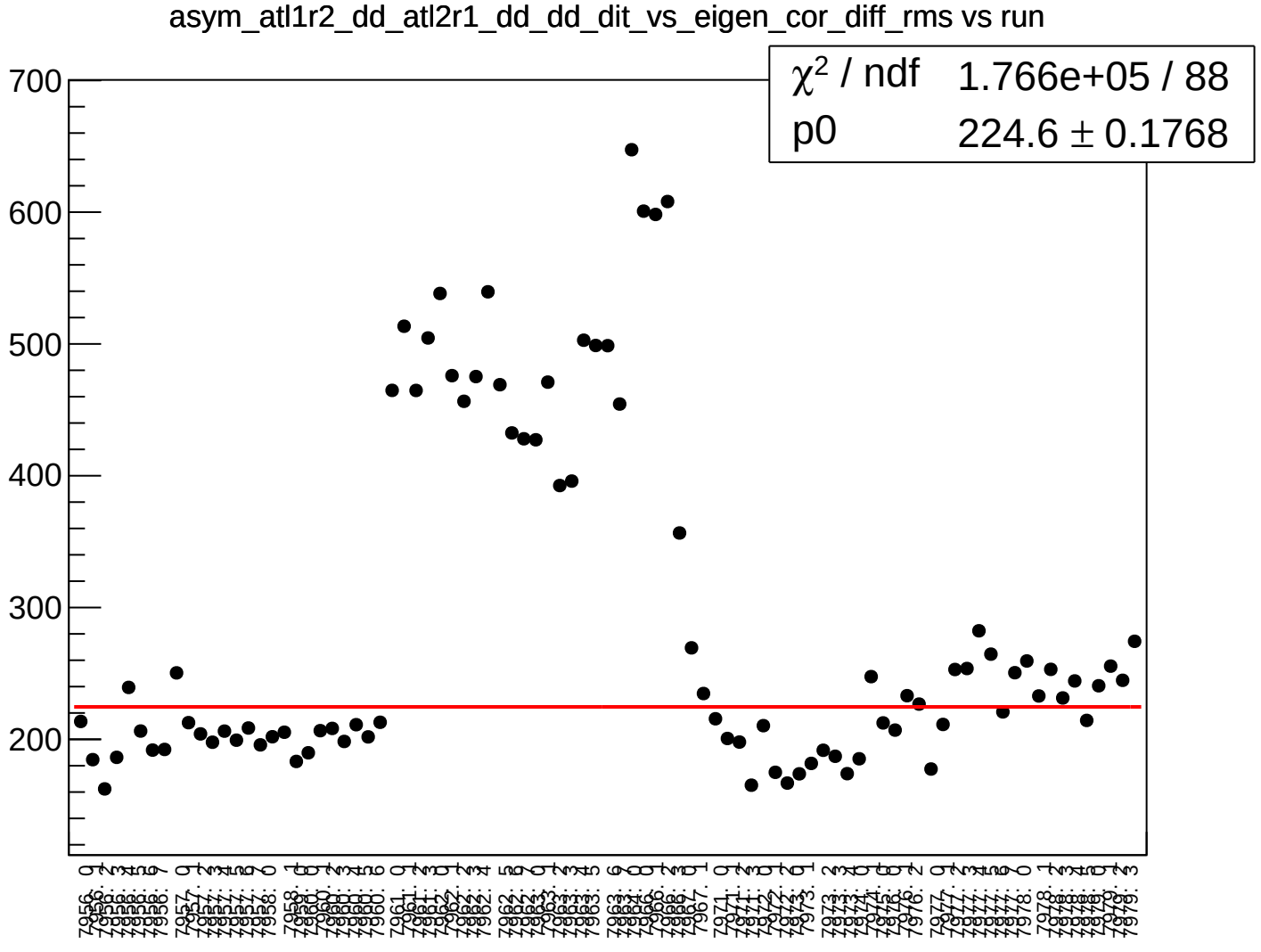

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.097e+06 / 88
p0 4.482e−10 ± 5.384e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

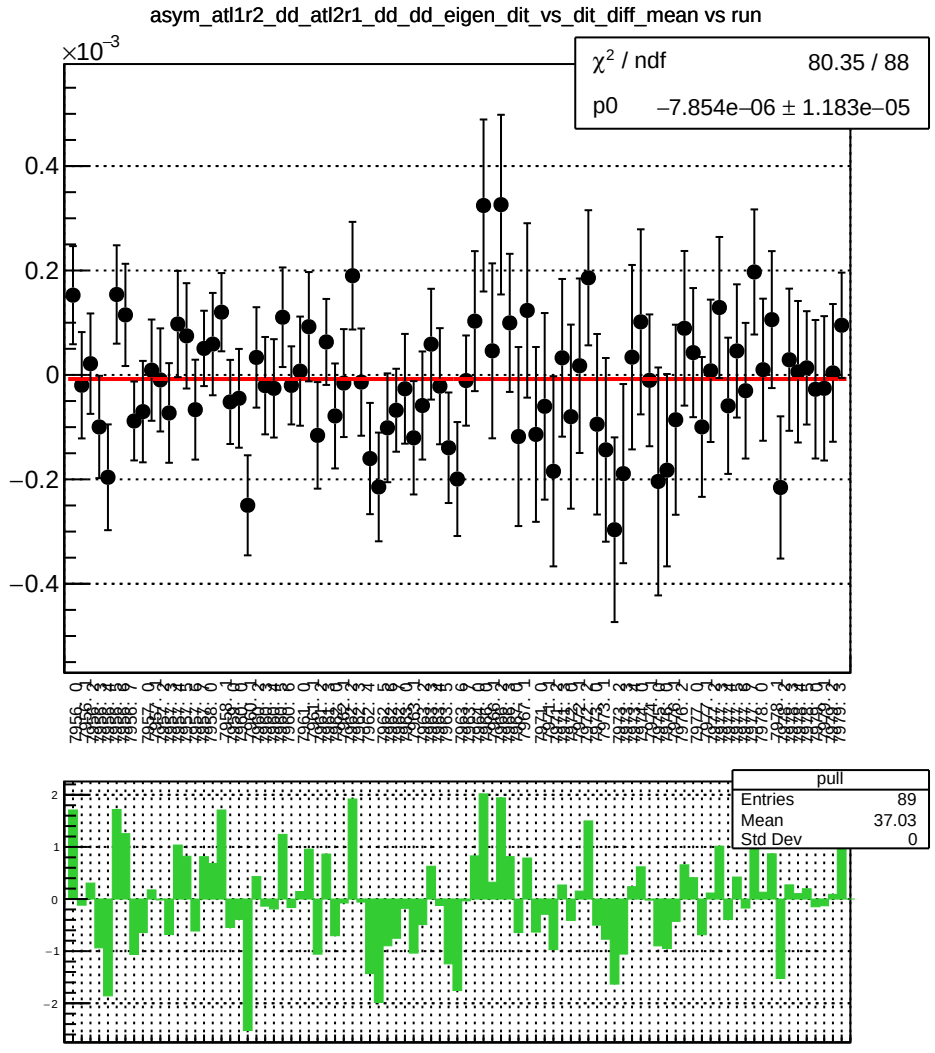

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 88
p0 0.1248 ± 0.25
pull
Entries 89
Mean 92.03
Std Dev 0
pull1D
Entries 89
Mean 0.05421
Std Dev 1.091

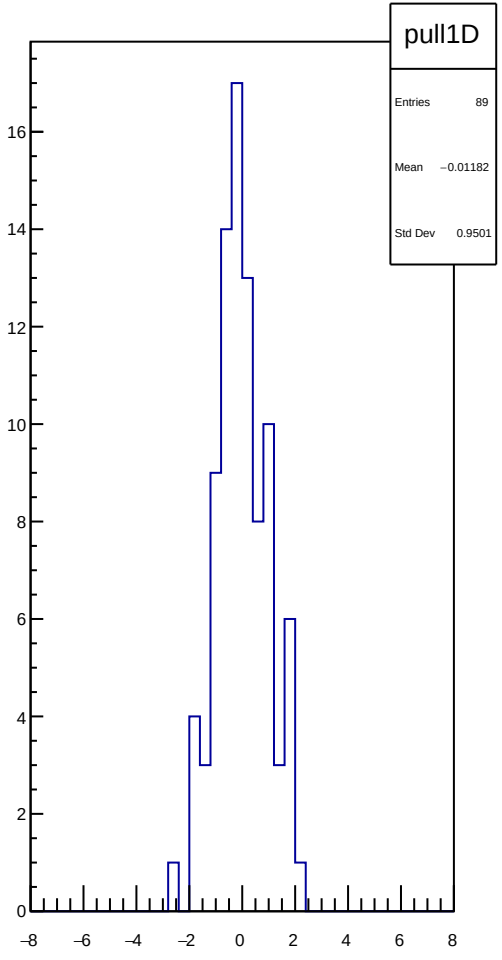

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 88
p0 224.6 ± 0.1768
700
600
500
400
300
200

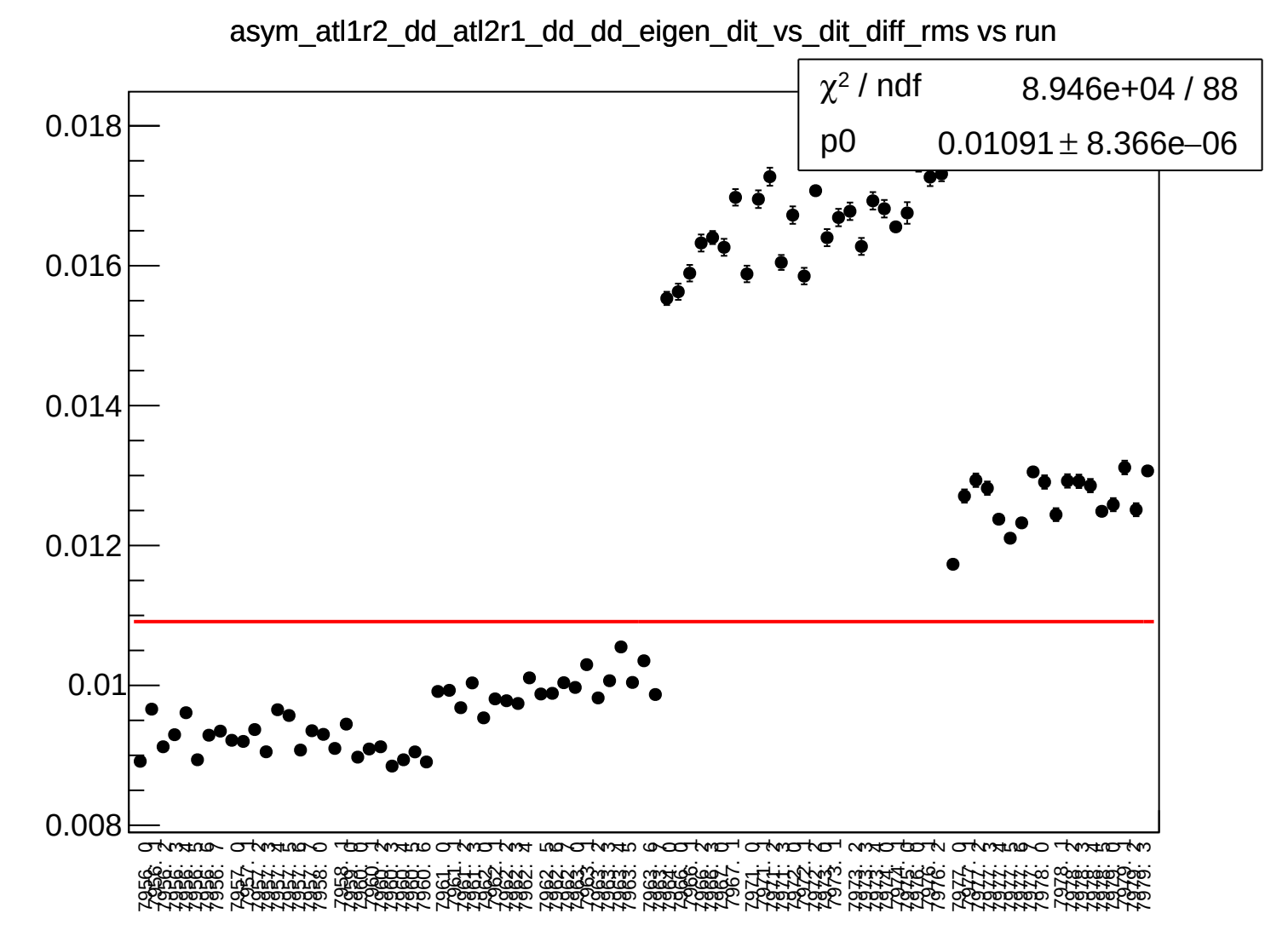

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 88
p0 0.1248 ± 0.25
pull
Entries 89
Mean 92.03
Std Dev 0

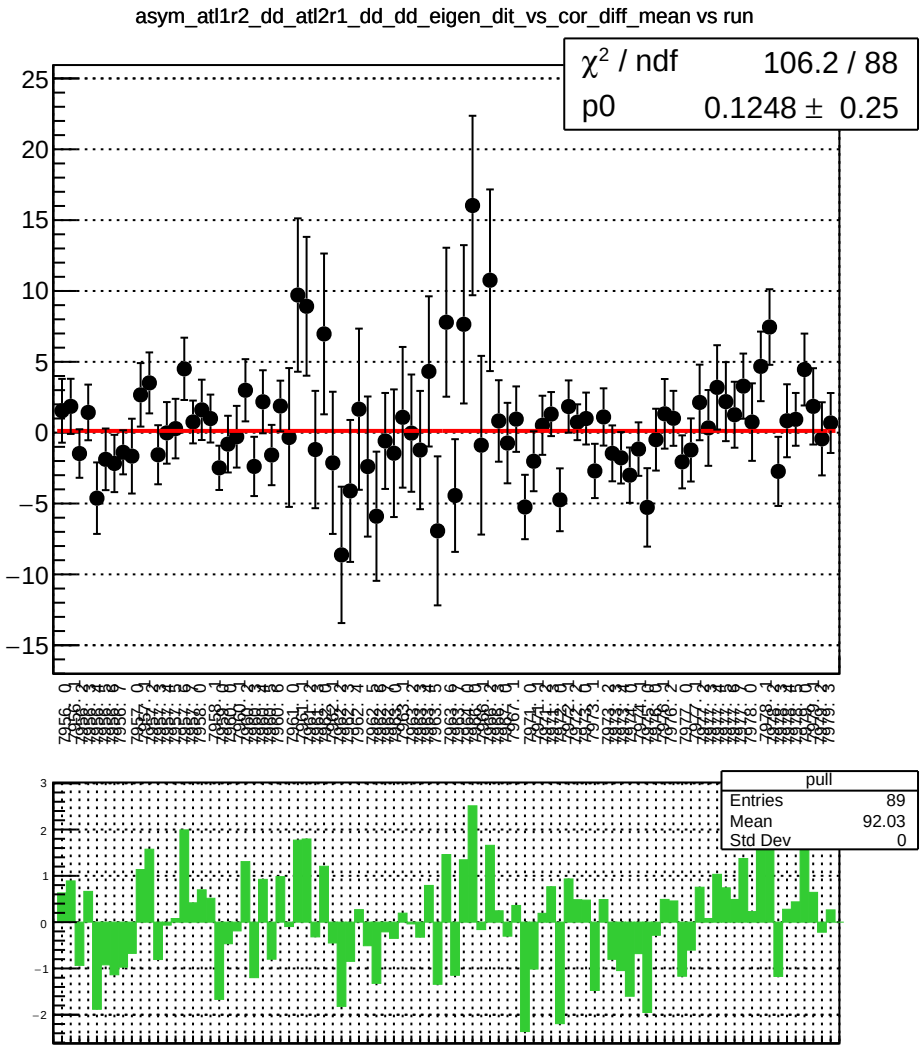

pull1D
Entries 89
Mean 0.05421
Std Dev 1.091

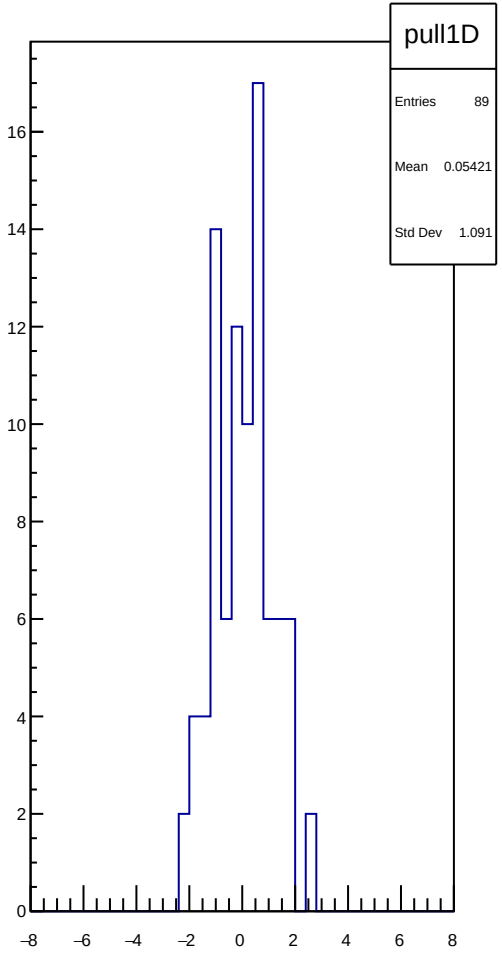

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 88
p0 224.6 ± 0.1768
700
600
500
400
300
200

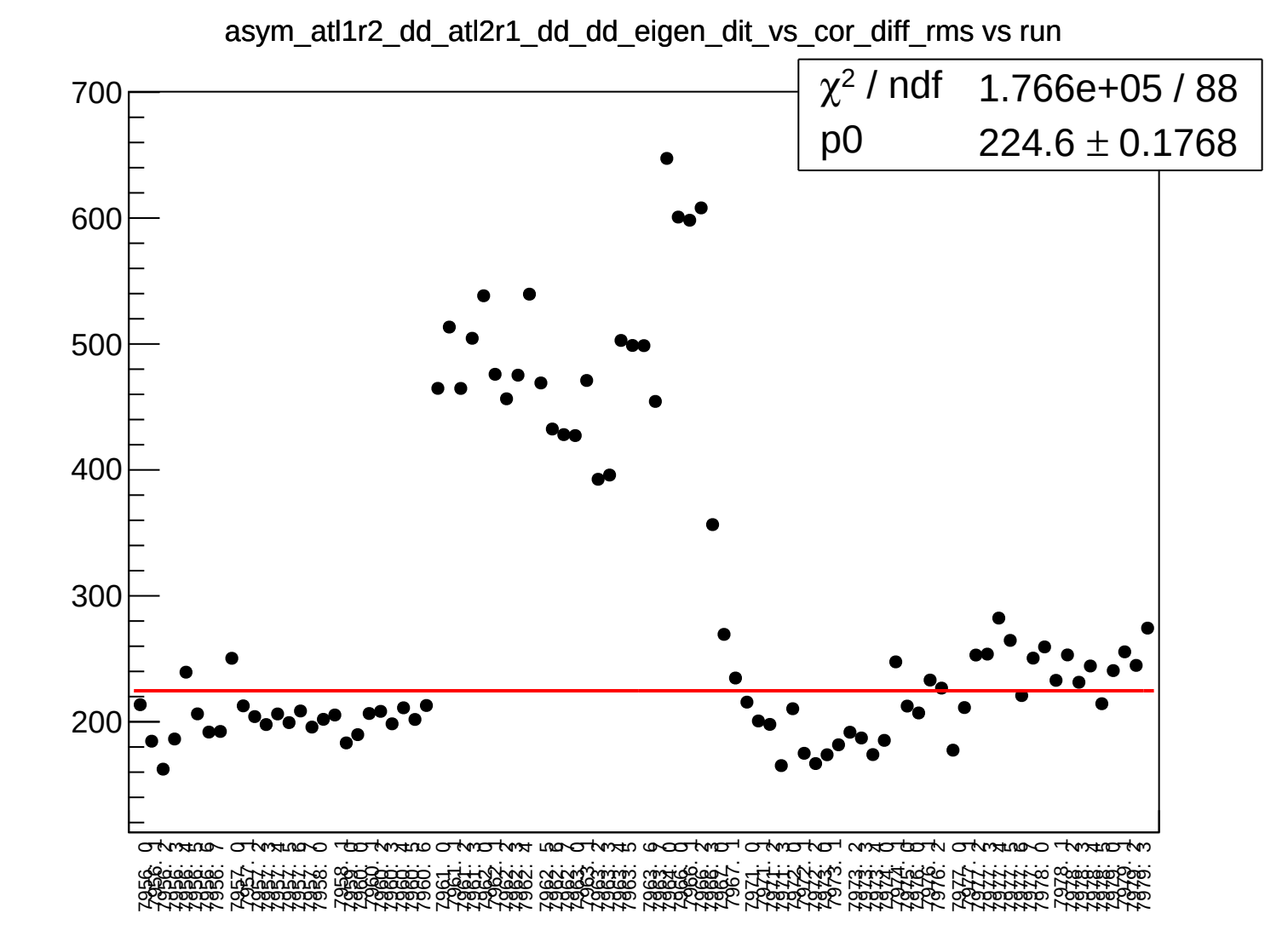

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 80.35 / 88
p0 −7.854e−06 ± 1.183e−05
pull
Entries 89
Mean 37.03
Std Dev 0

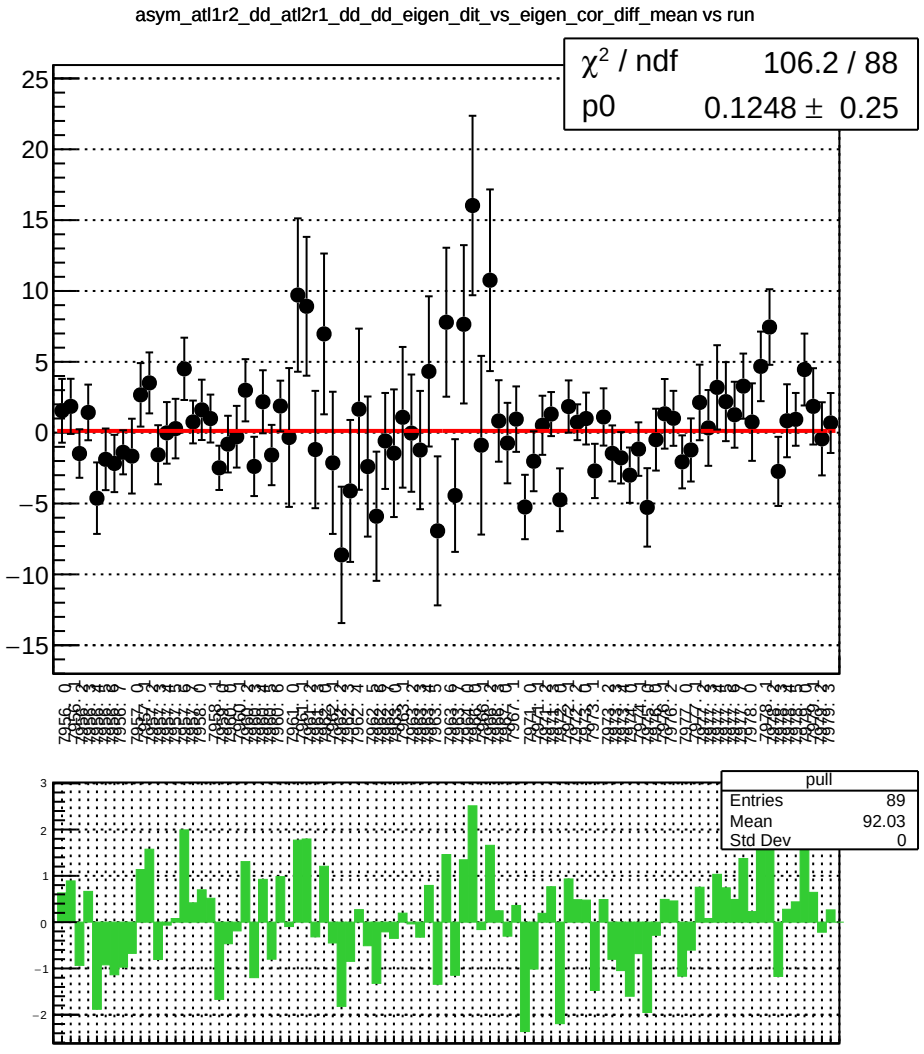

pull1D
Entries 89
Mean −0.01182
Std Dev 0.9501

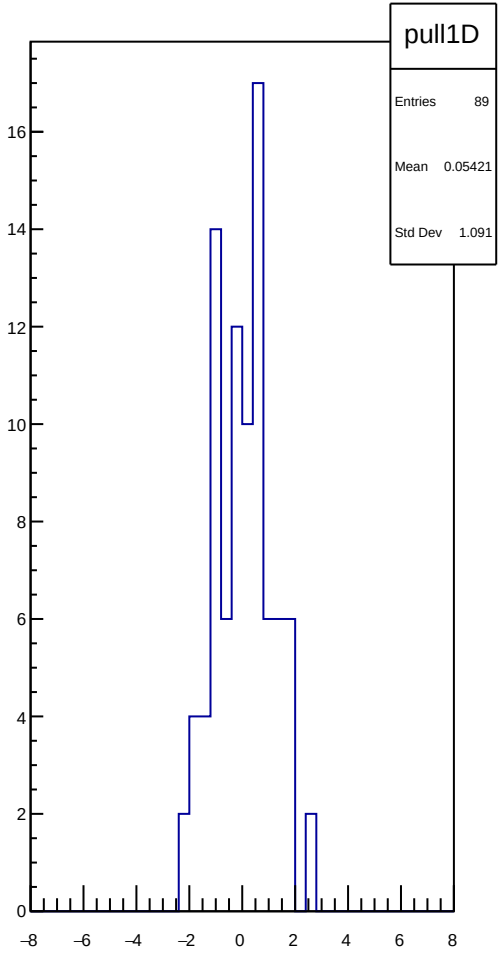

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.946e+04 / 88
p0 0.01091 ± 8.366e−06
0.018
0.016
0.014
0.012
0.01
0.008

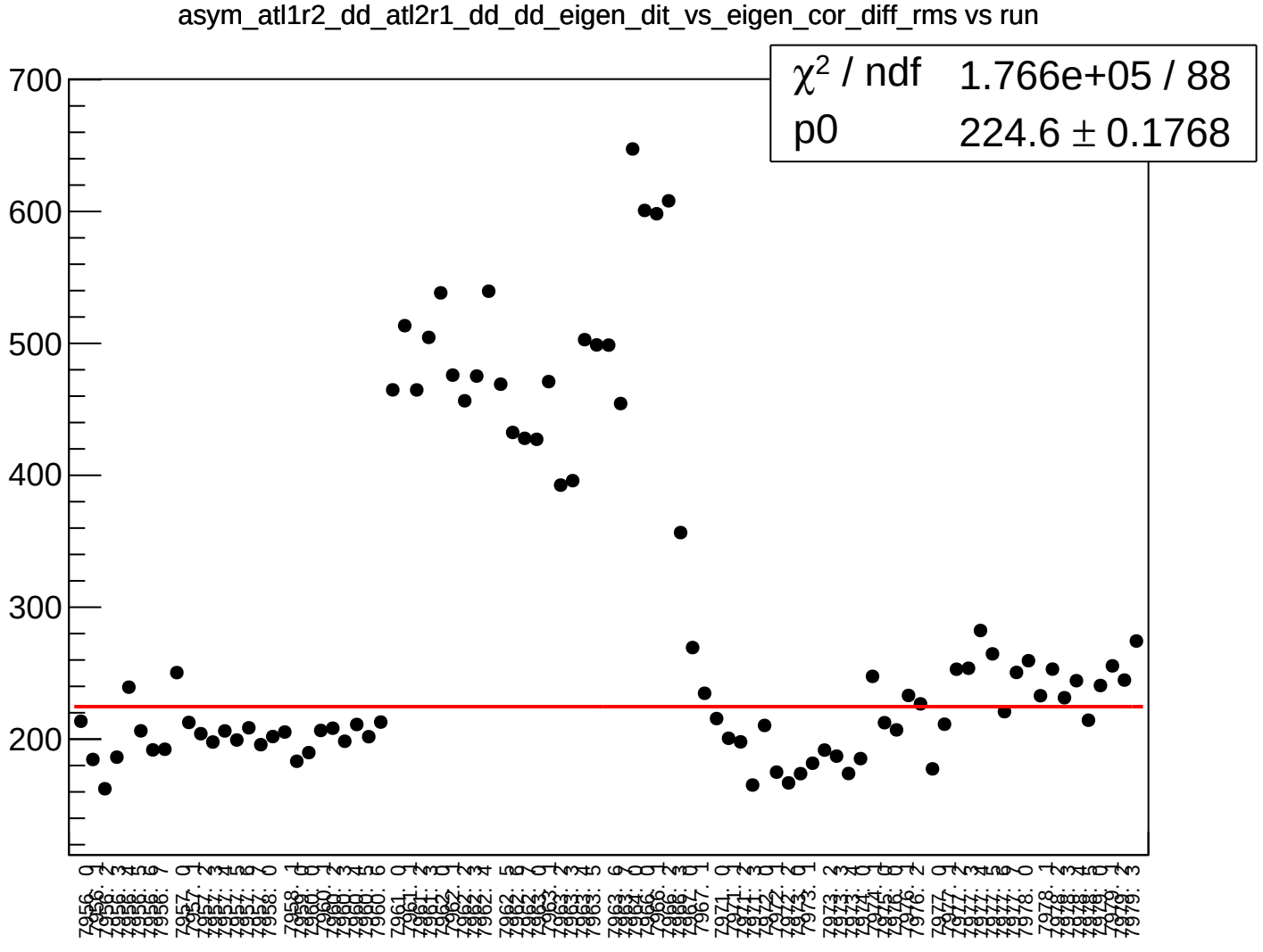

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 88
p0 0.1248 ± 0.25
pull
Entries 89
Mean 92.03
Std Dev 0

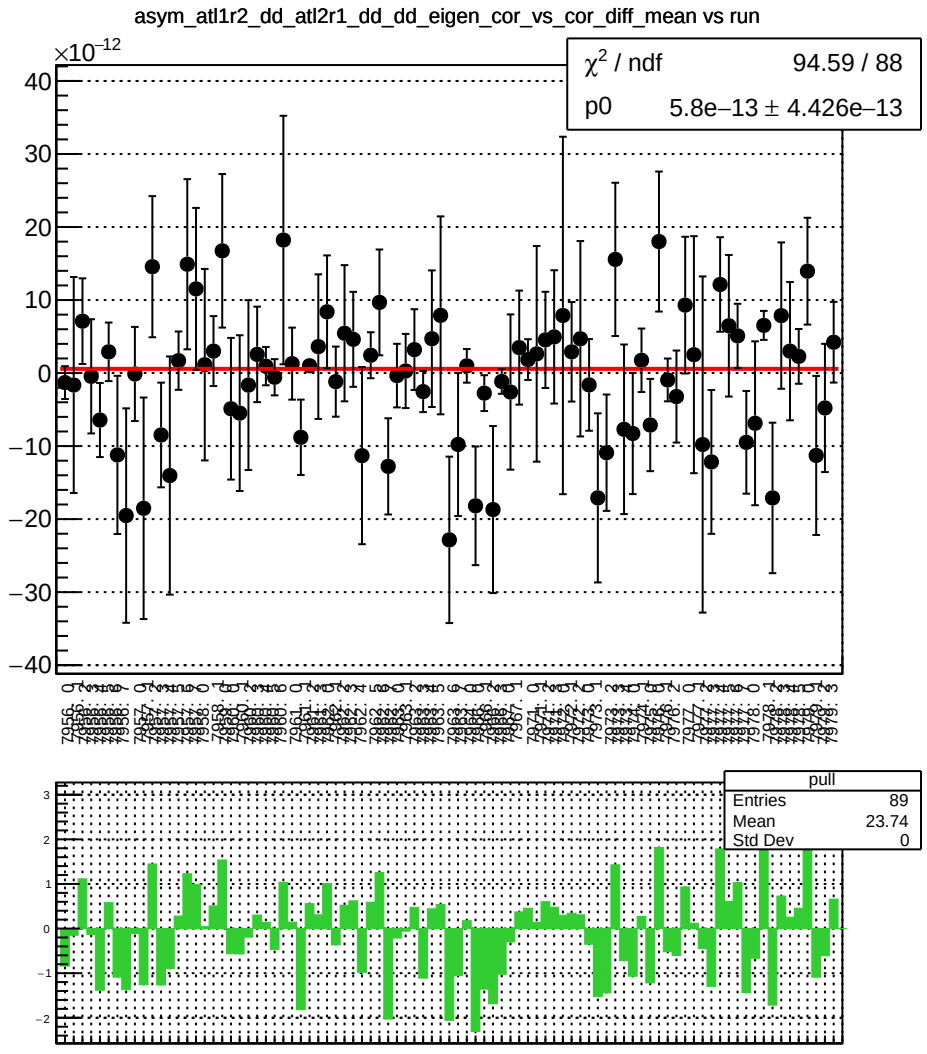

pull1D
Entries 89
Mean 0.05421
Std Dev 1.091

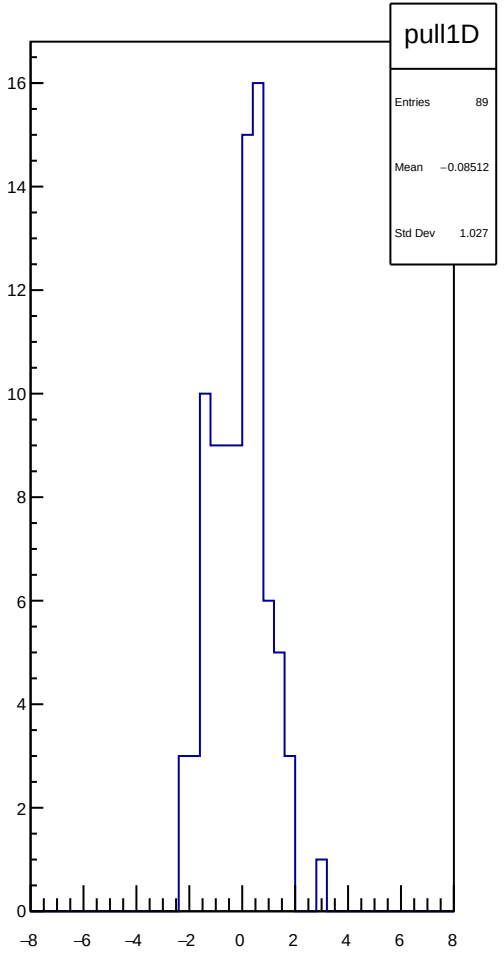

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 88
p0 224.6 ± 0.1768
700
600
500
400
300
200

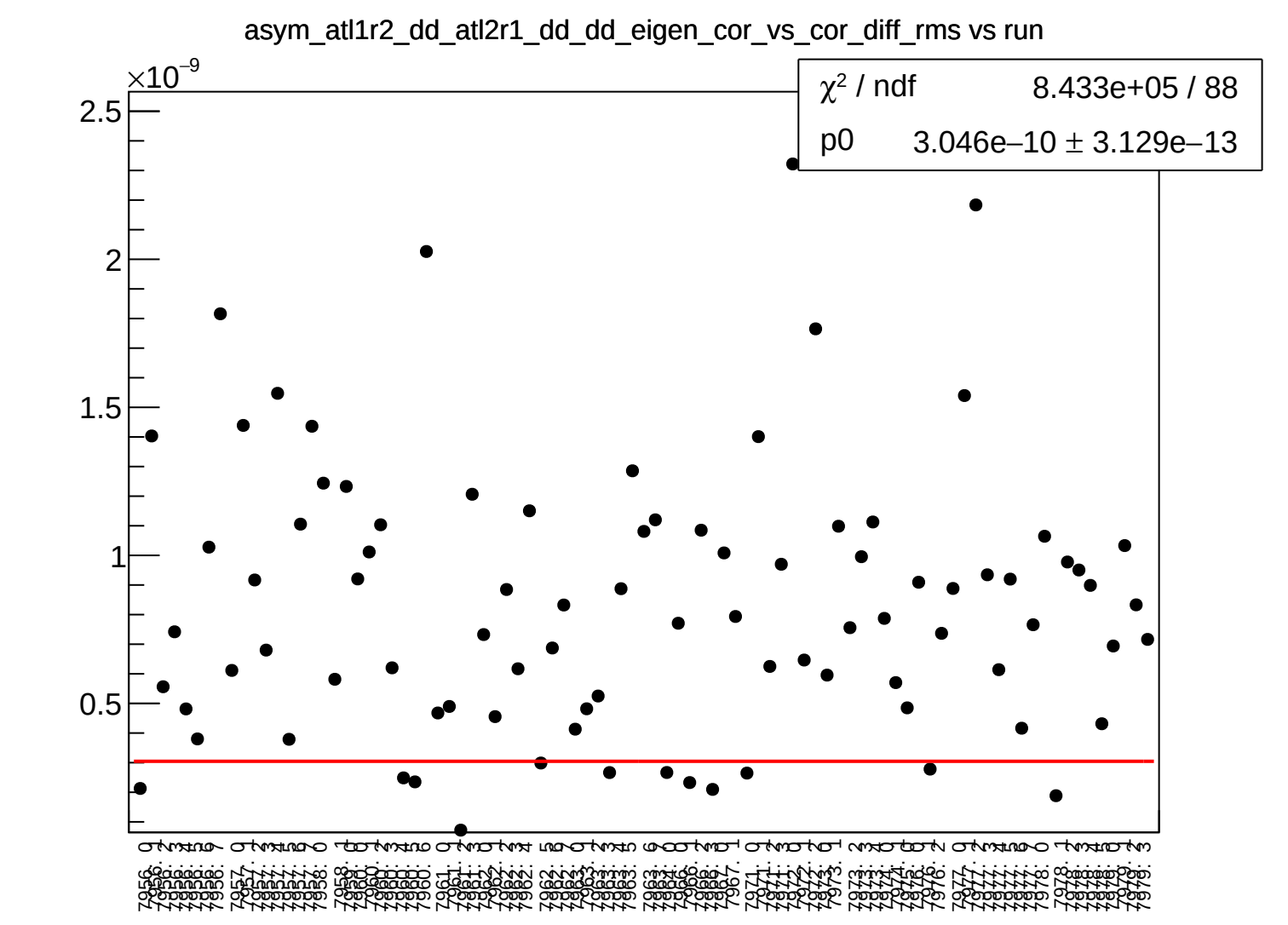

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 88
p0 0.1248 ± 0.25
pull
Entries 89
Mean 92.03
Std Dev 0

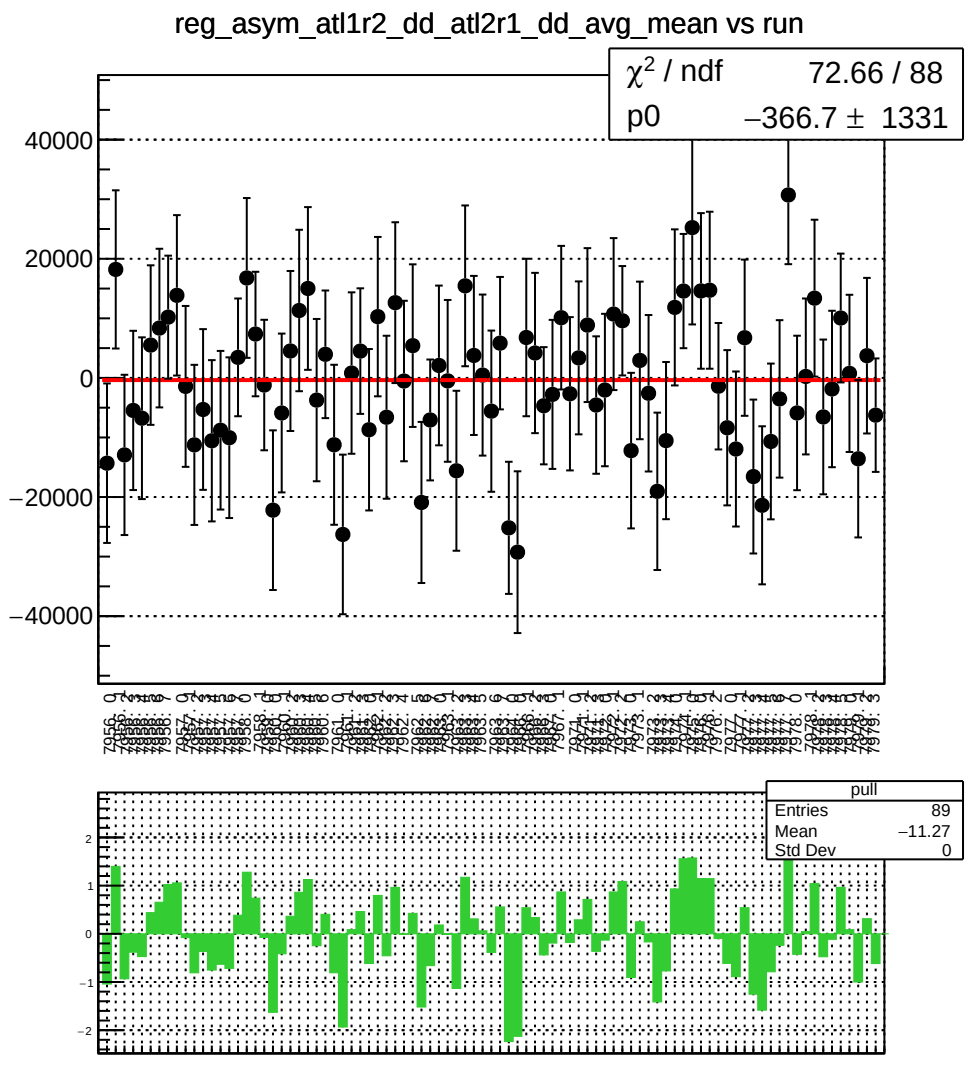

pull1D
Entries 89
Mean 0.05421
Std Dev 1.091

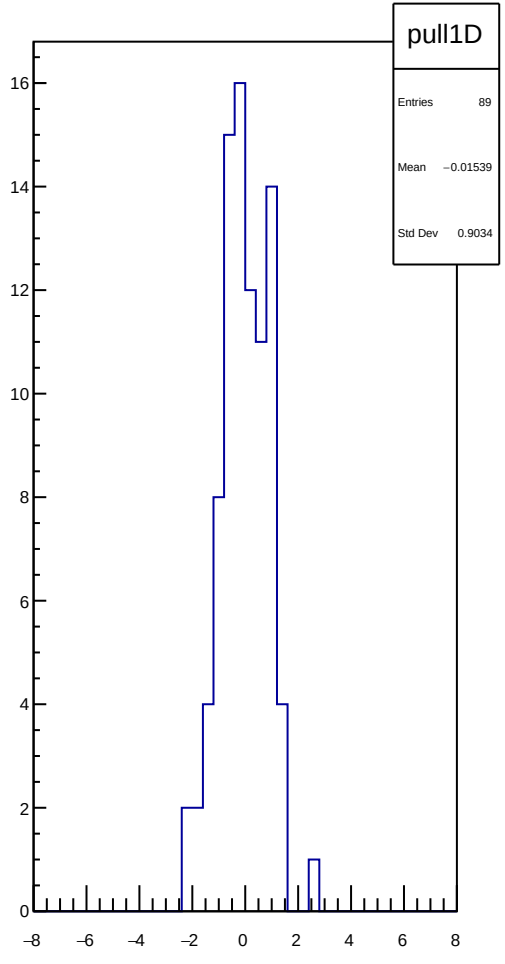

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.766e+05 / 88
p0 224.6 ± 0.1768
700
600
500
400
300
200

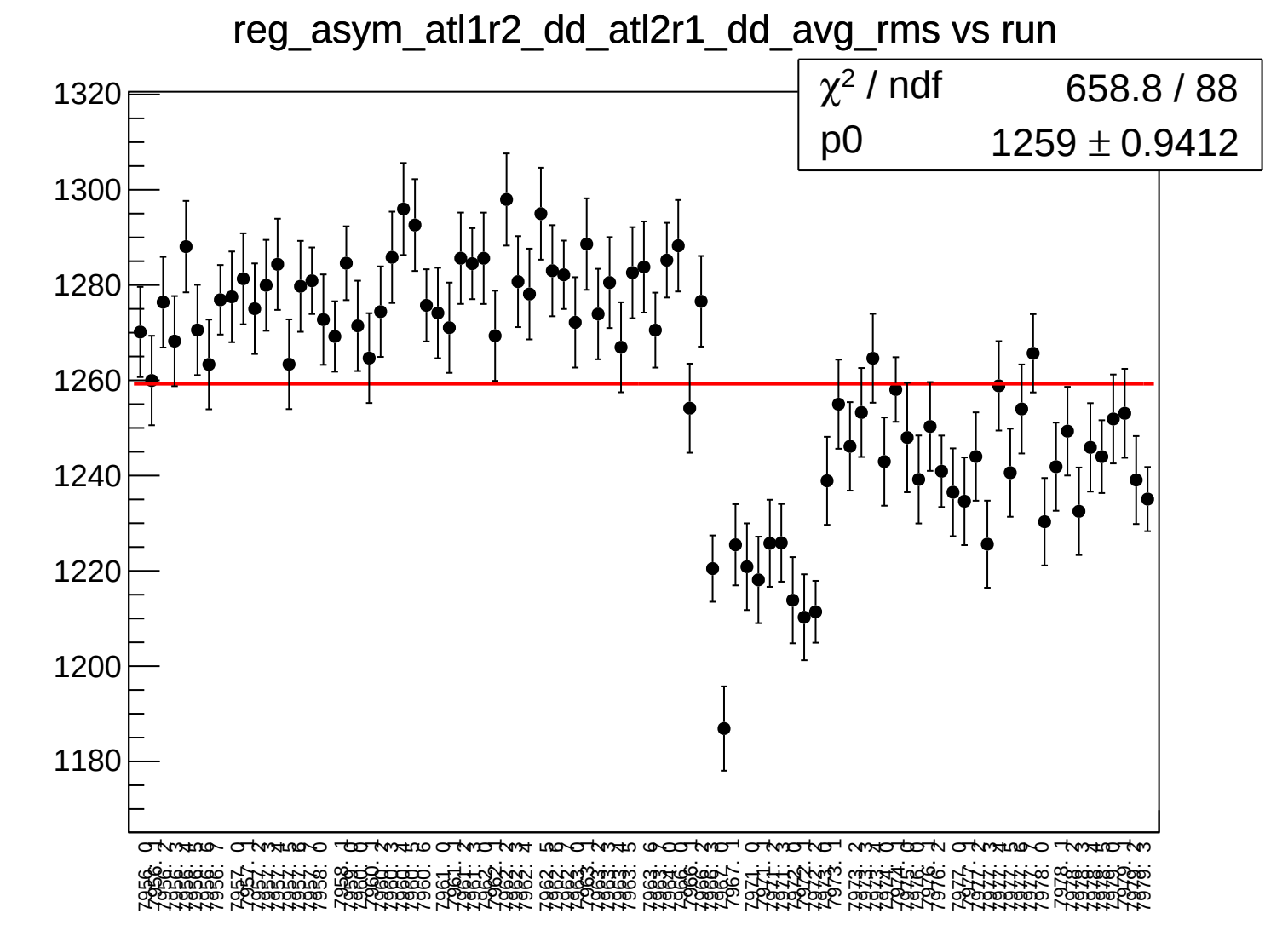

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.59 / 88
p0 5.8e−13 ± 4.426e−13
pull
Entries 89
Mean 23.74
Std Dev 0

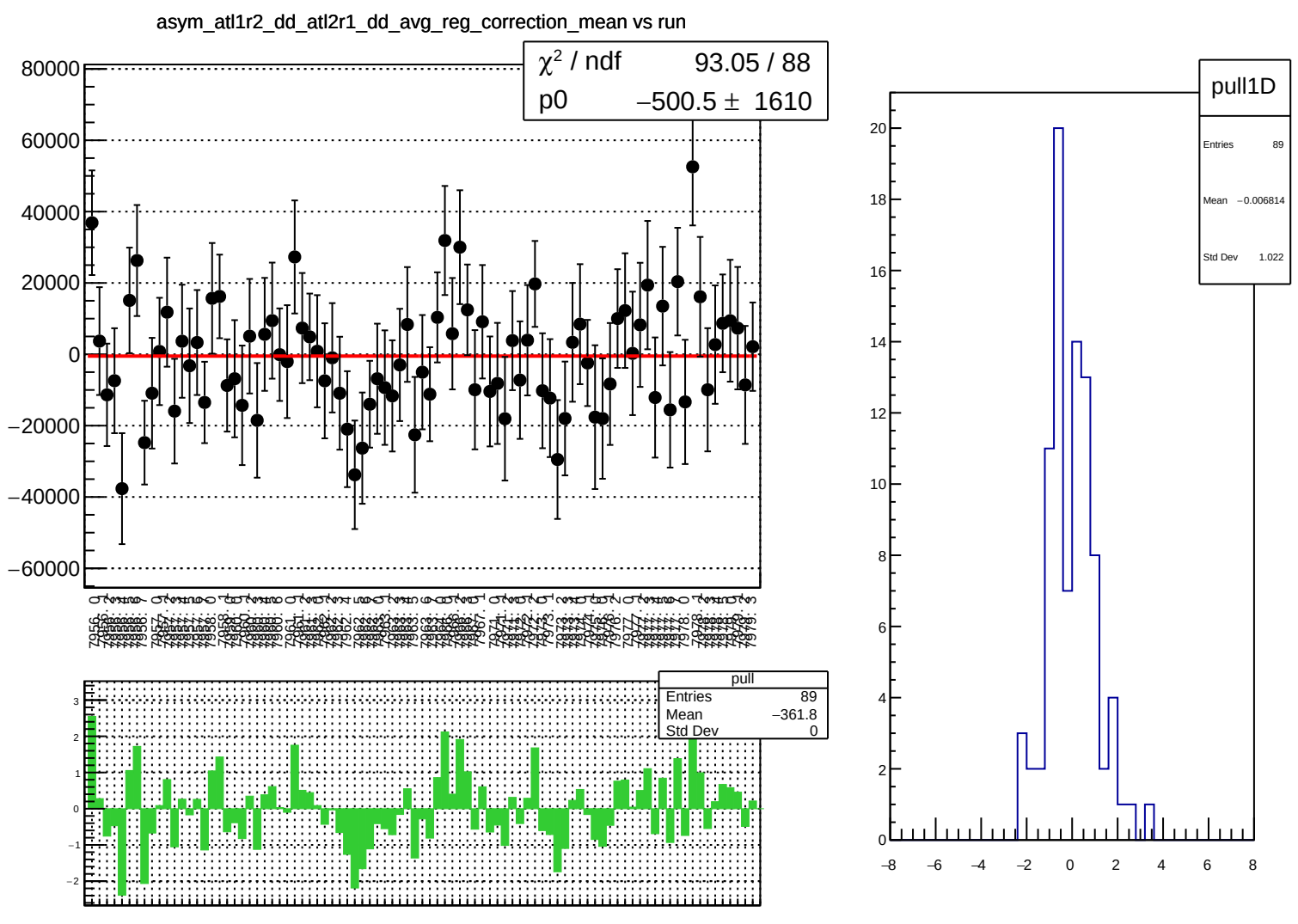

pull1D
Entries 89
Mean −0.08512
Std Dev 1.027

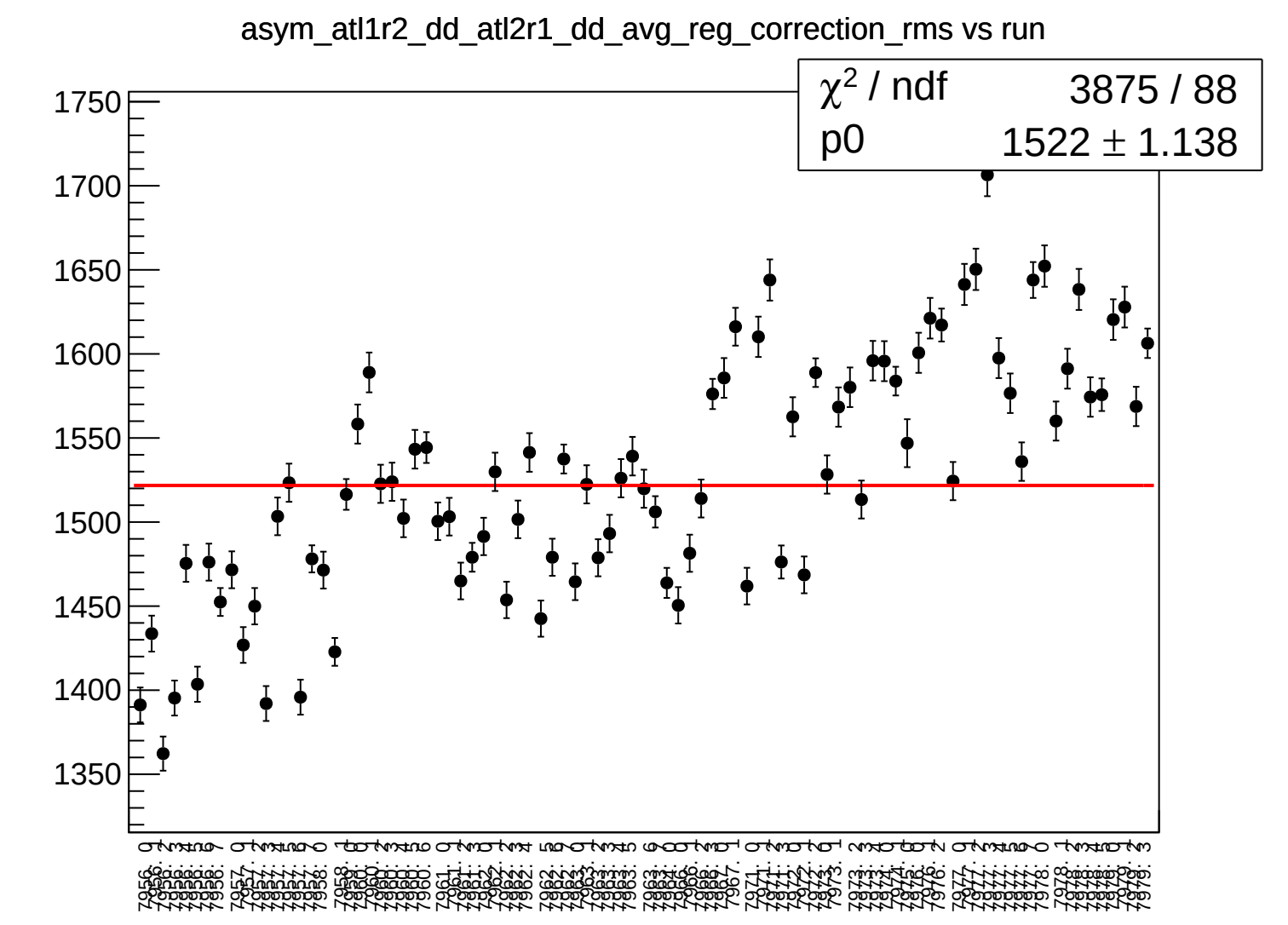

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 8.433e+05 / 88
p0 3.046e−10 ± 3.129e−13

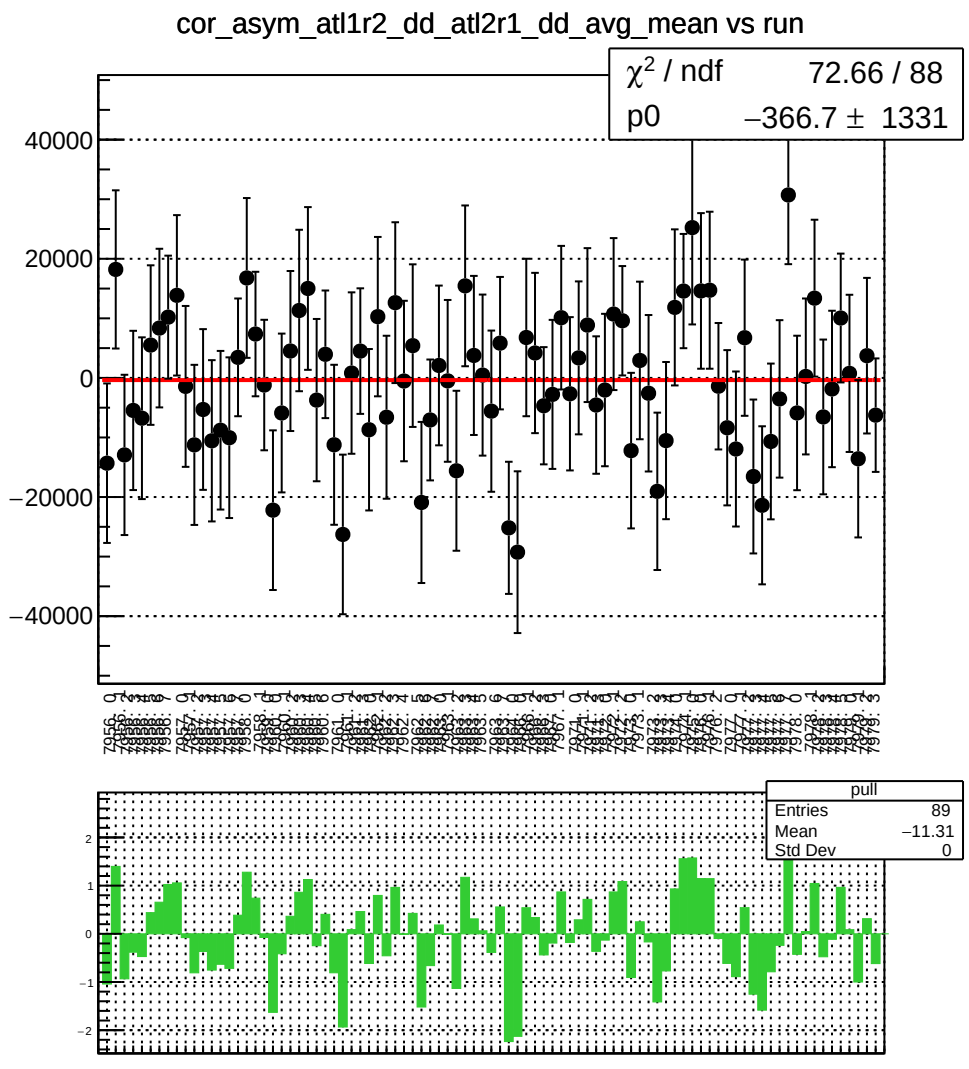

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 72.66 / 88
p0 −366.7 ± 1331
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −11.27
Std Dev 0
2
1
0
−1
−2

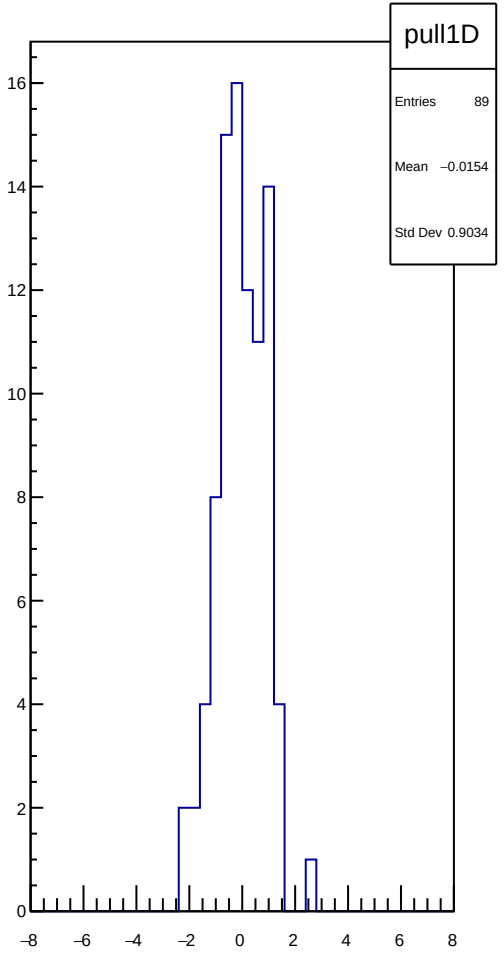

pull1D
Entries 89
Mean −0.01539
Std Dev 0.9034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

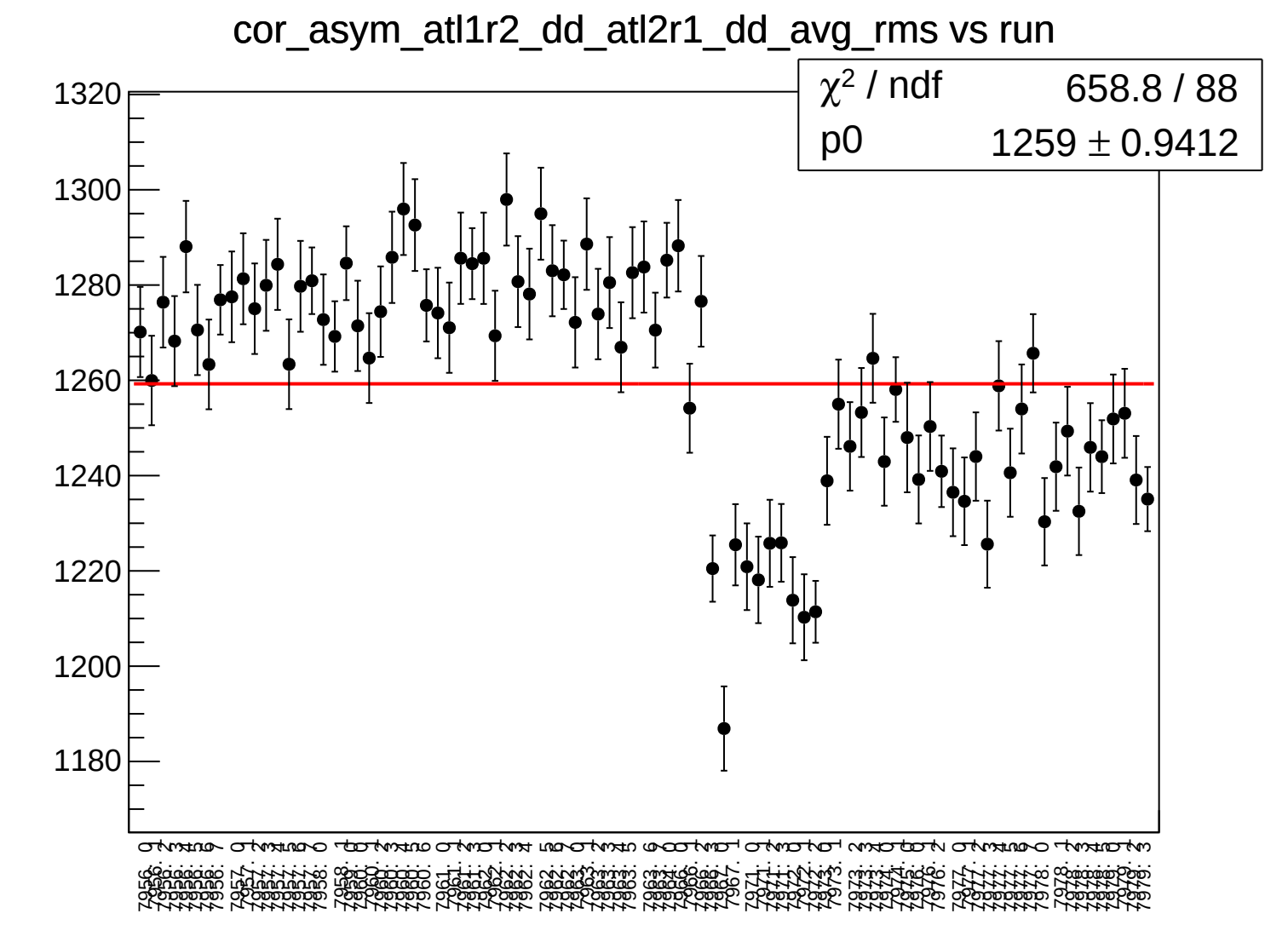

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 658.8 / 88
p0 1259 ± 0.9412
1320
1300
1280
1260
1240
1220
1200
1180

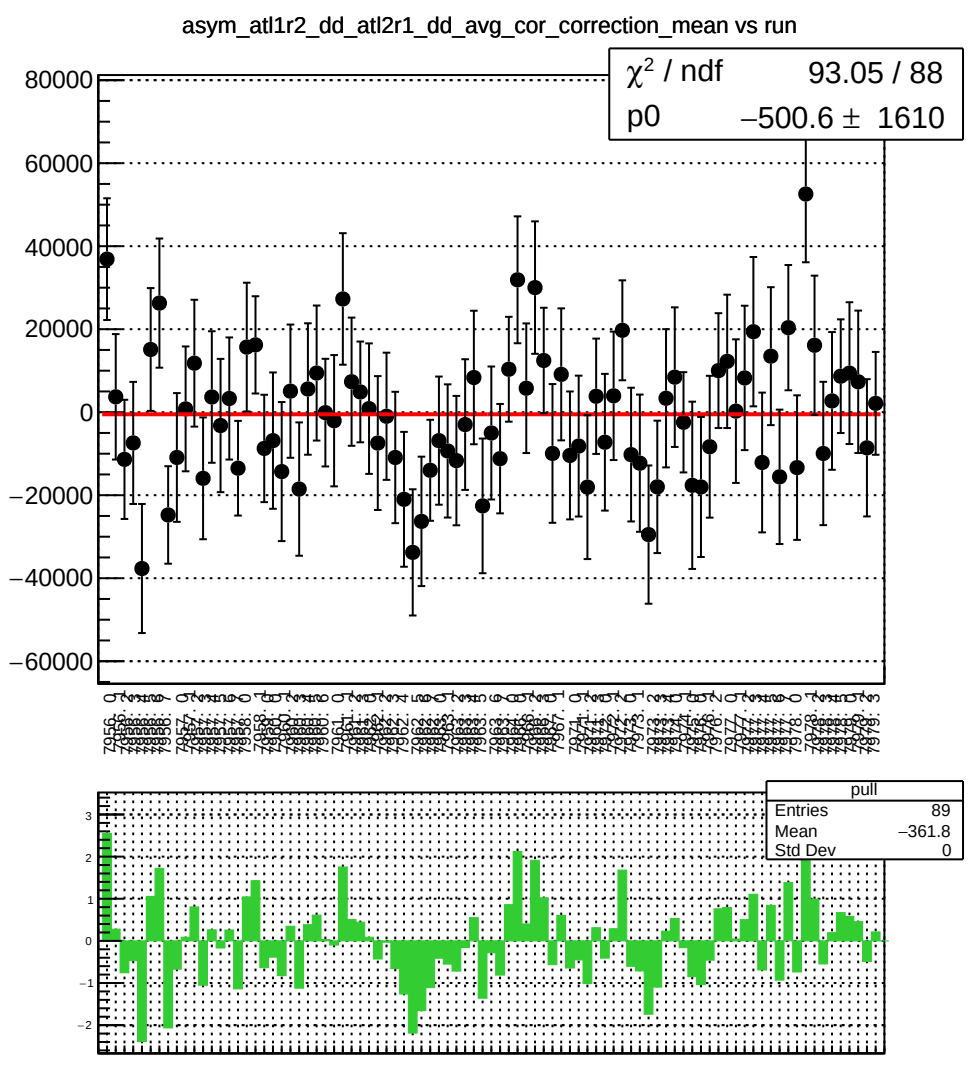

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 93.05 / 88
p0 −500.5 ± 1610
pull
Entries 89
Mean −361.8
Std Dev 0
pull1D
Entries 89
Mean −0.006814
Std Dev 1.022

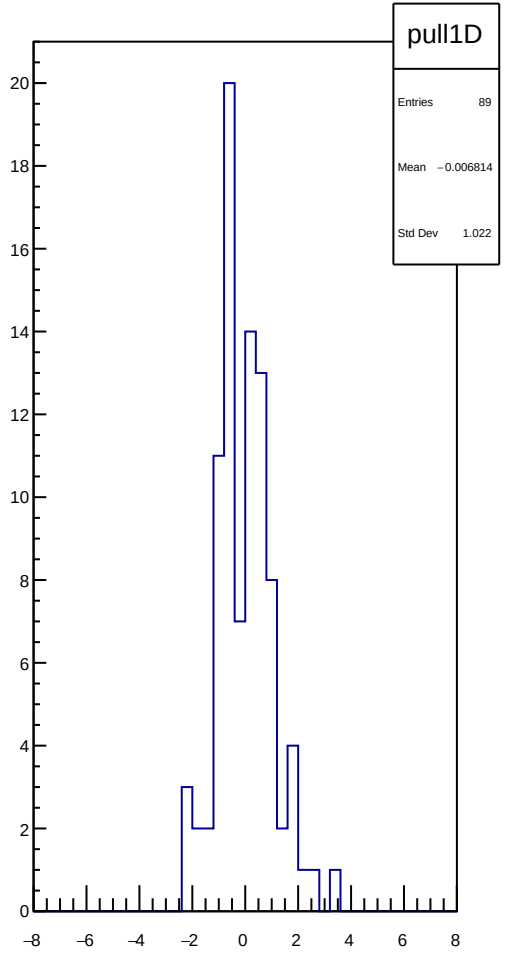

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 3875 / 88
p0 1522 ± 1.138
1750
1700
1650
1600
1550
1500
1450
1400
1350

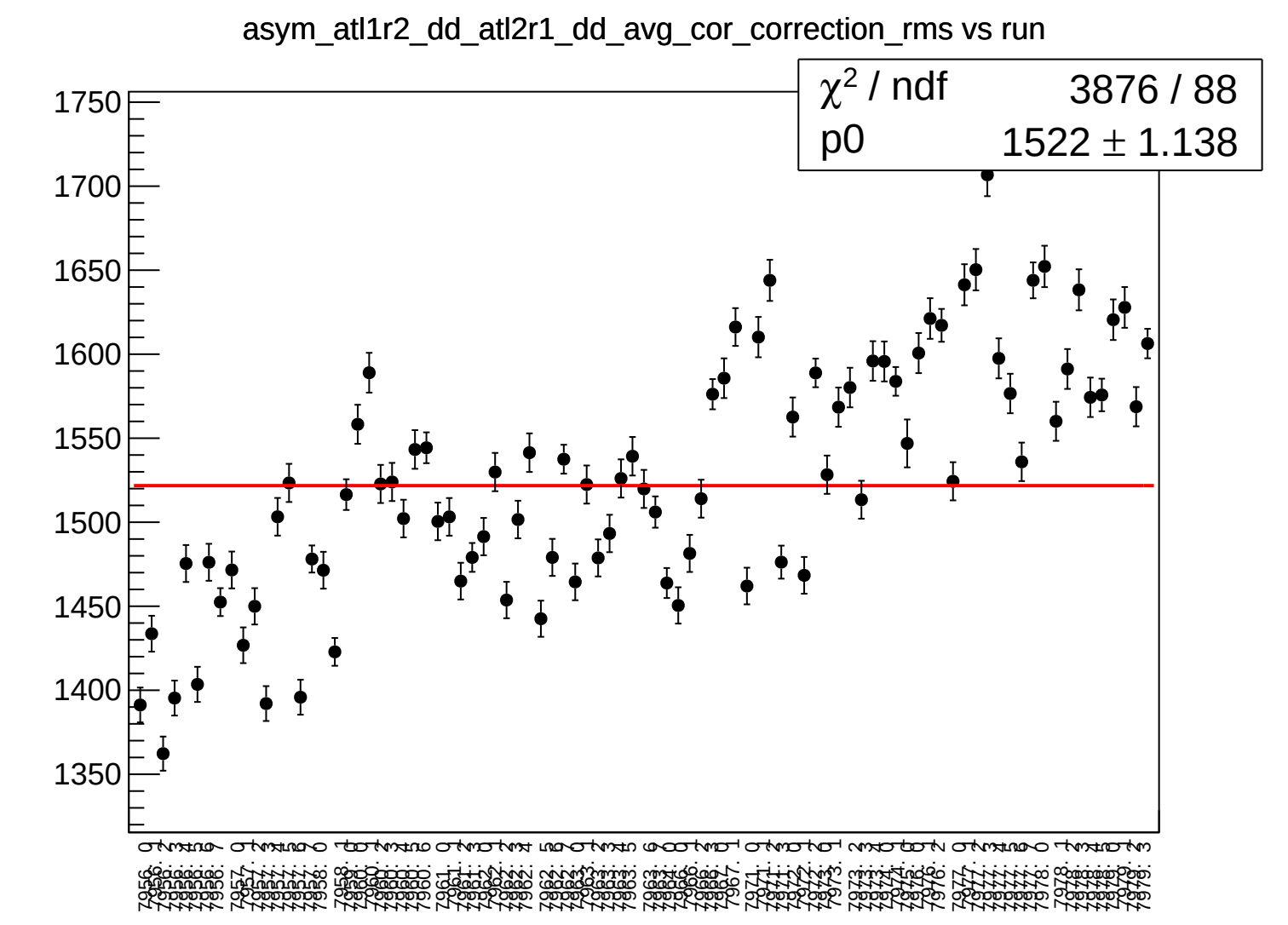

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 72.66 / 88
p0 −366.7 ± 1331
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −11.31
Std Dev 0
2
1
0
−1
−2

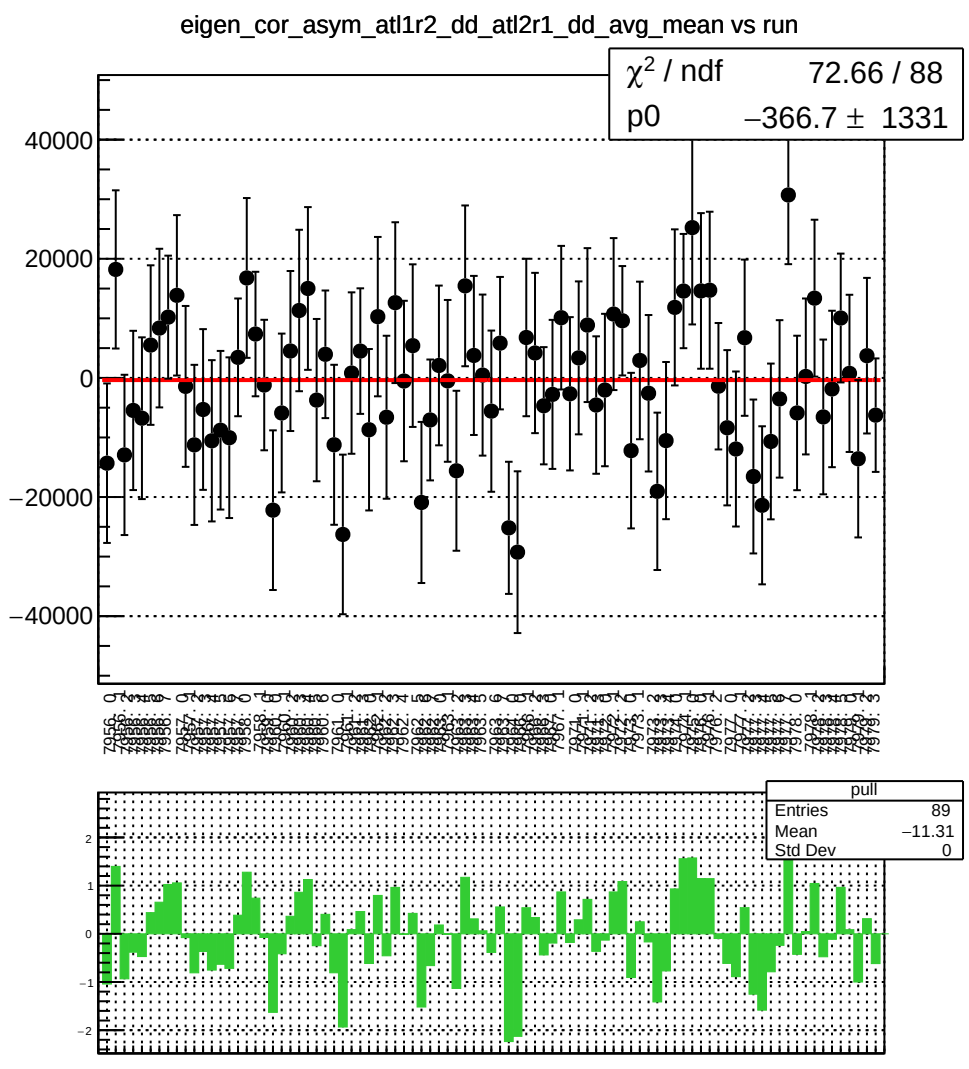

pull1D
Entries 89
Mean −0.0154
Std Dev 0.9034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

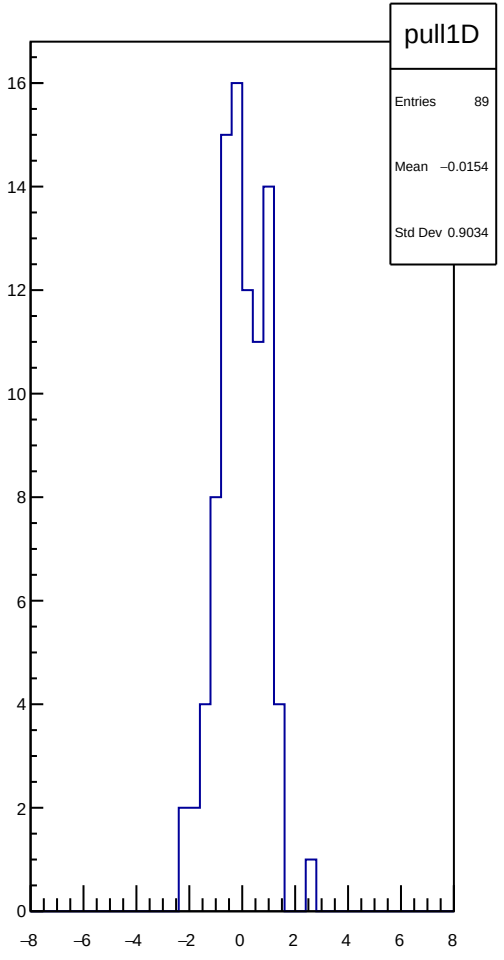

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 658.8 / 88
p0 1259 ± 0.9412
1320
1300
1280
1260
1240
1220
1200
1180

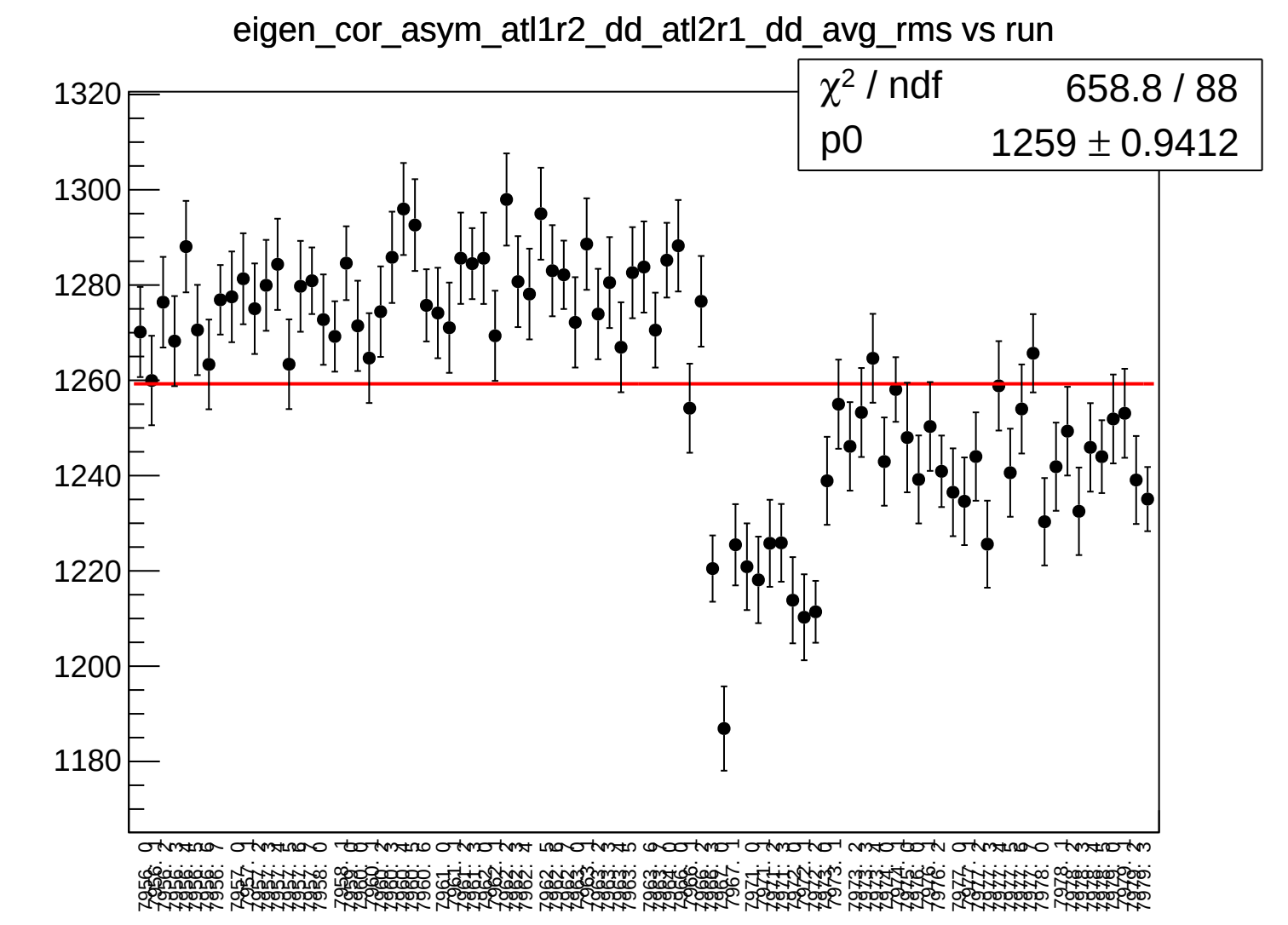

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 93.05 / 88
p0 −500.6 ± 1610
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −361.8
Std Dev 0
3
2
1
0
−1
−2

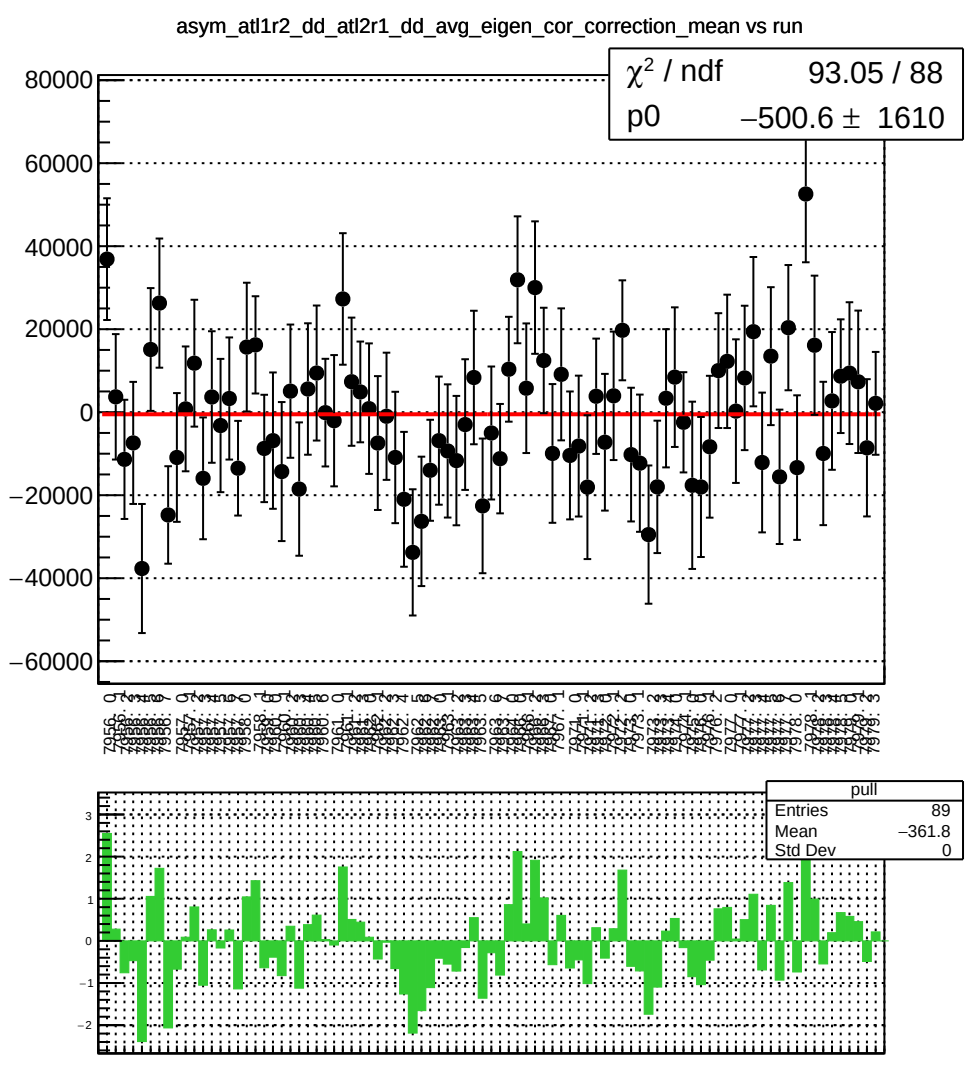

pull1D
Entries 89
Mean −0.006814
Std Dev 1.022
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

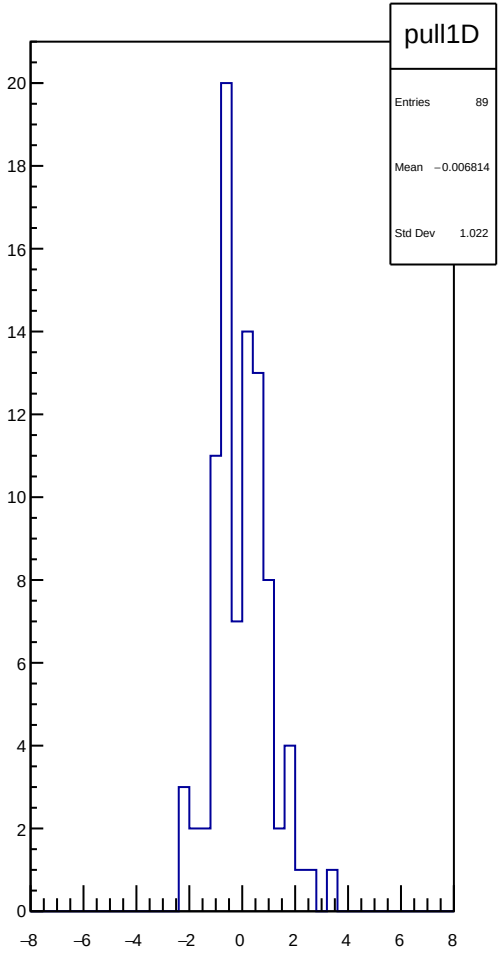

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 3876 / 88
p0 1522 ± 1.138
1750
1700
1650
1600
1550
1500
1450
1400
1350

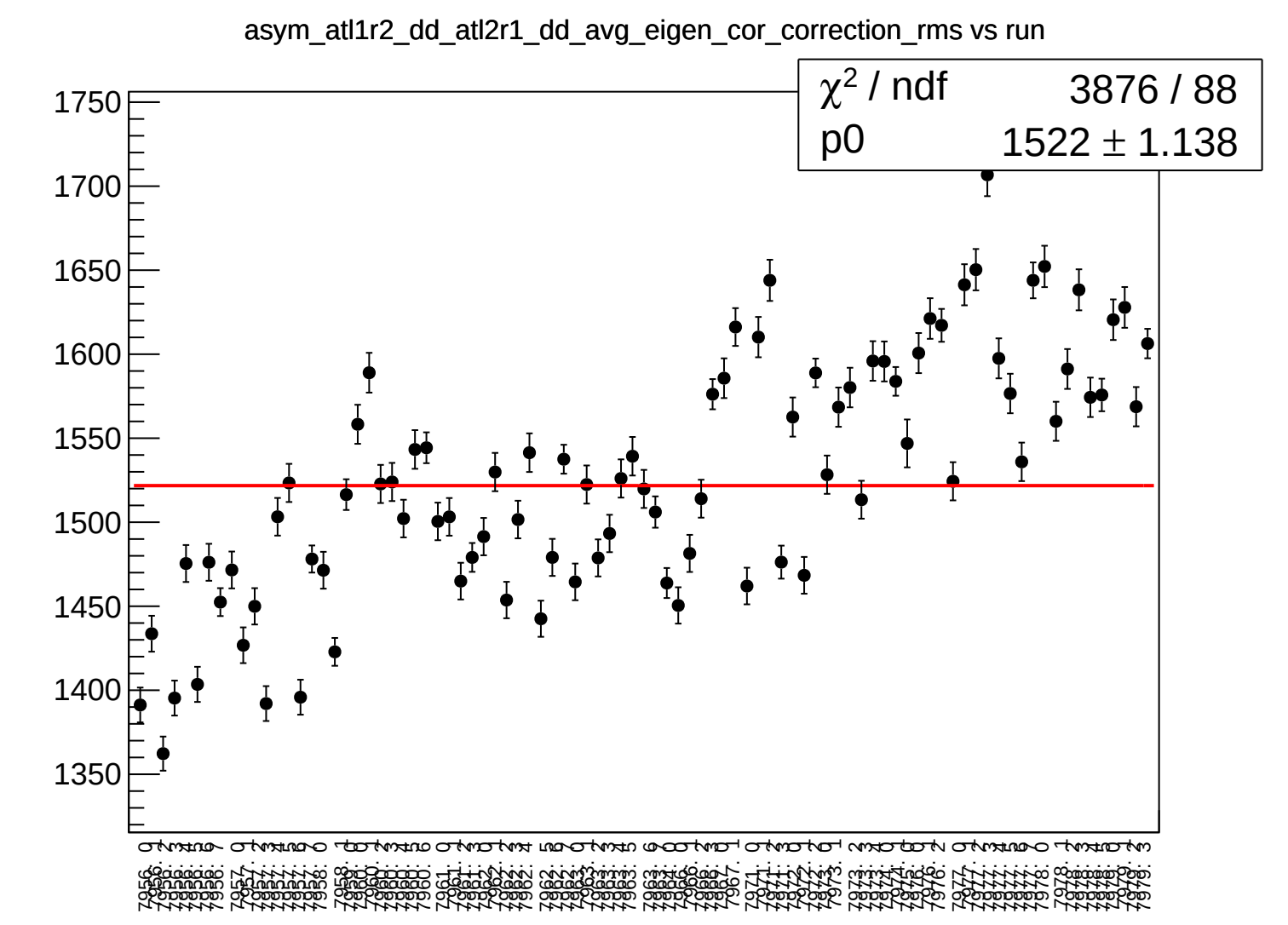

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 72.66 / 88
p0 −366.7 ± 1331
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −11.31
Std Dev 0
2
1
0
−1
−2

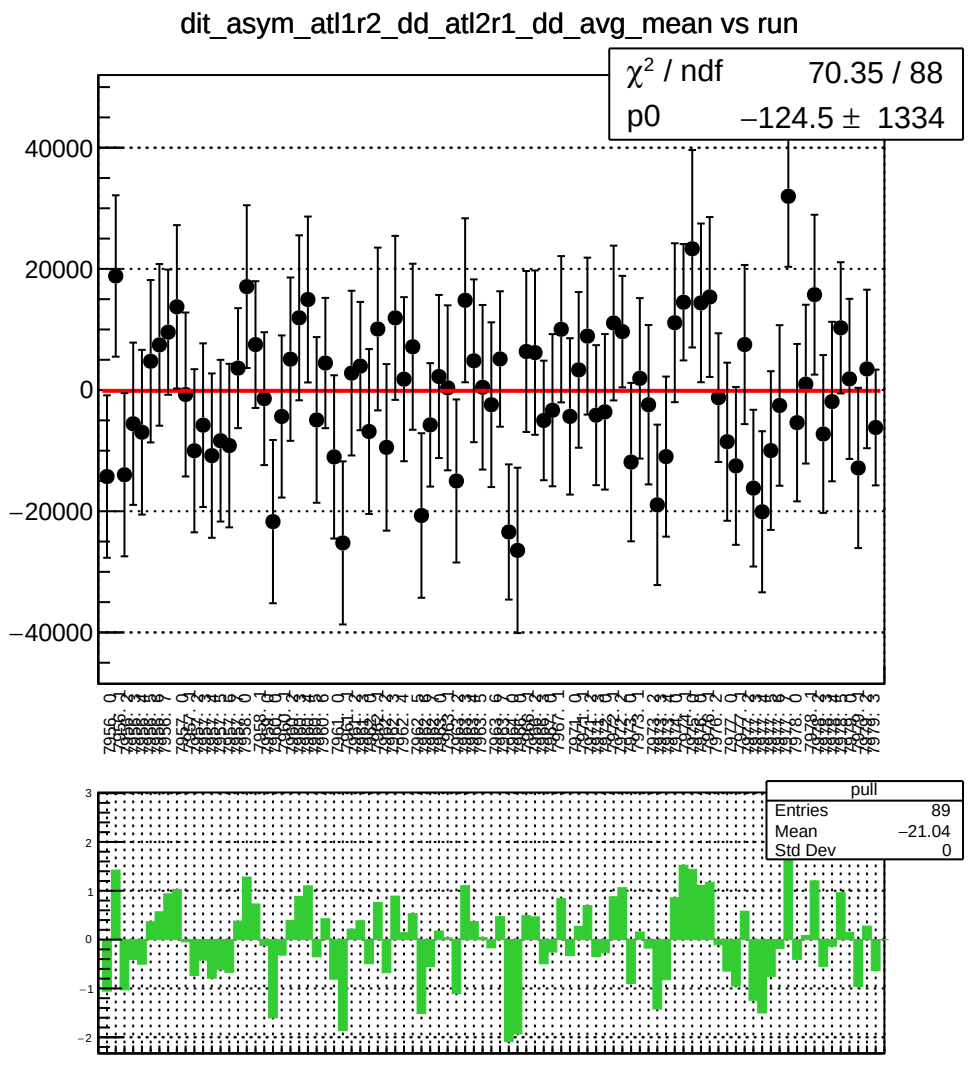

pull1D
Entries 89
Mean −0.0154
Std Dev 0.9034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

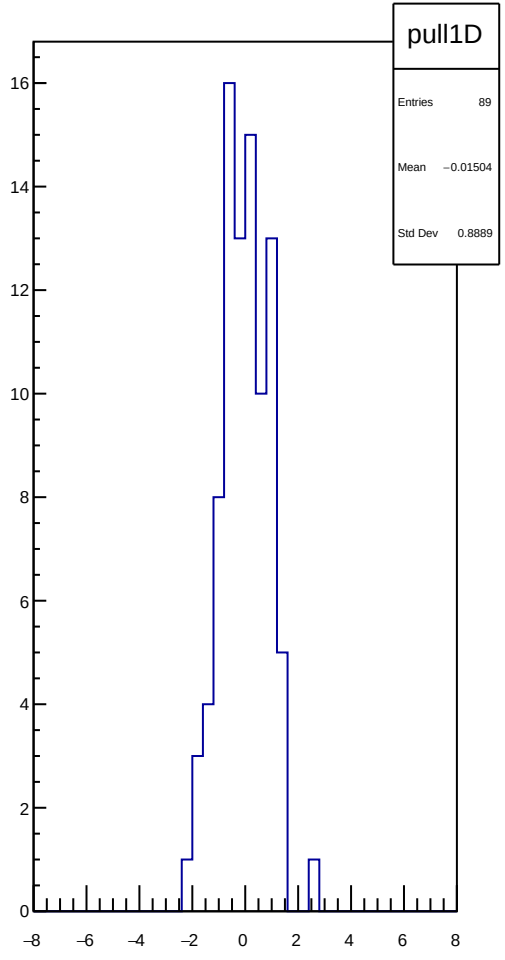

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 658.8 / 88
p0 1259 ± 0.9412
1320
1300
1280
1260
1240
1220
1200
1180

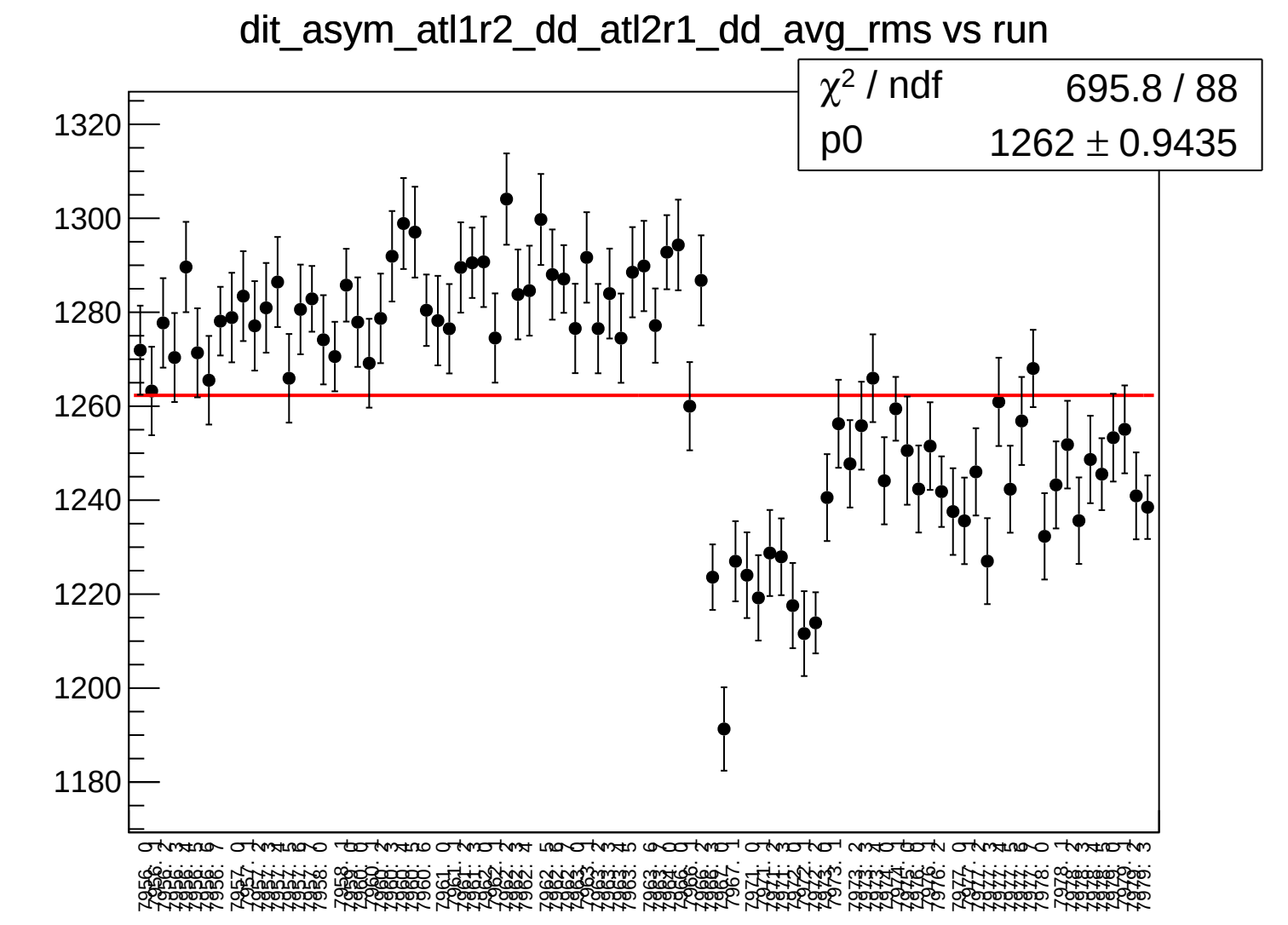

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.05 / 88
p0 −500.6 ± 1610
pull
Entries 89
Mean −361.8
Std Dev 0

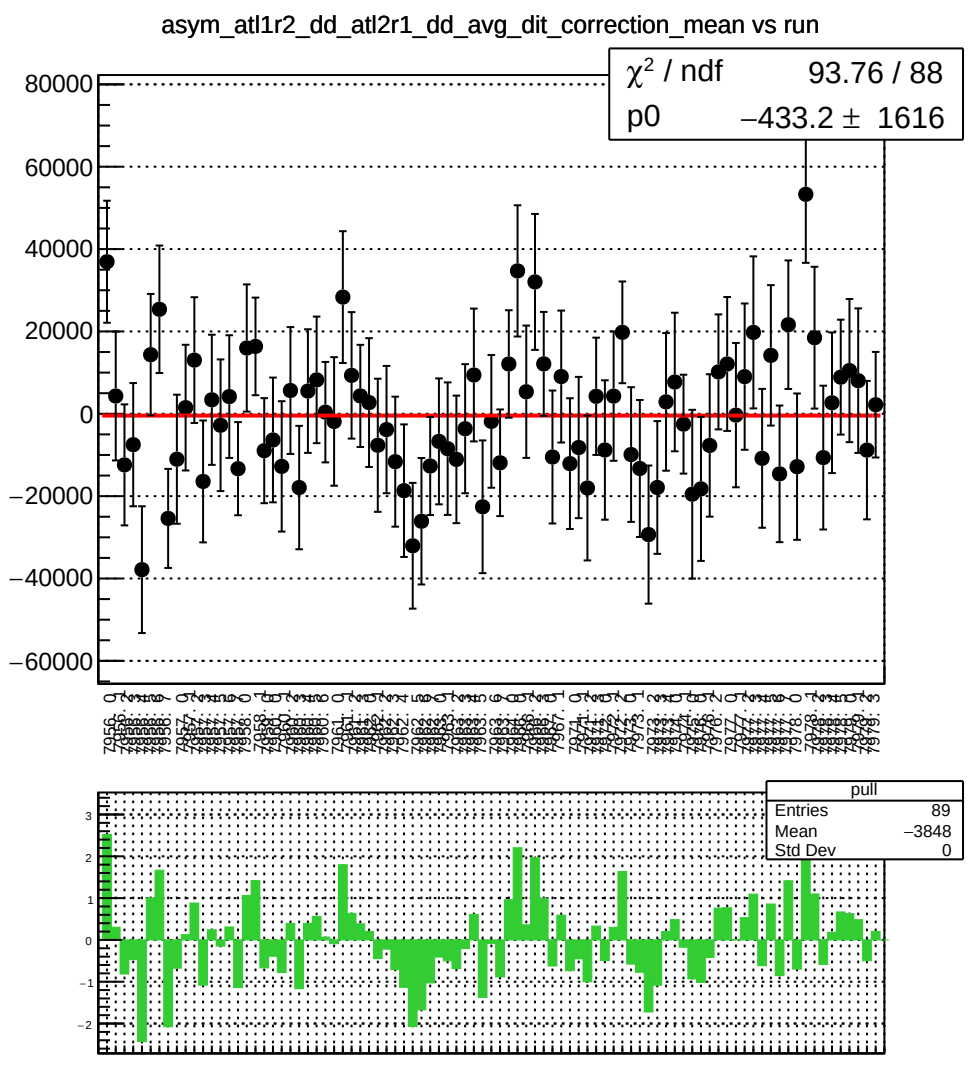

pull1D
Entries 89
Mean −0.006814
Std Dev 1.022

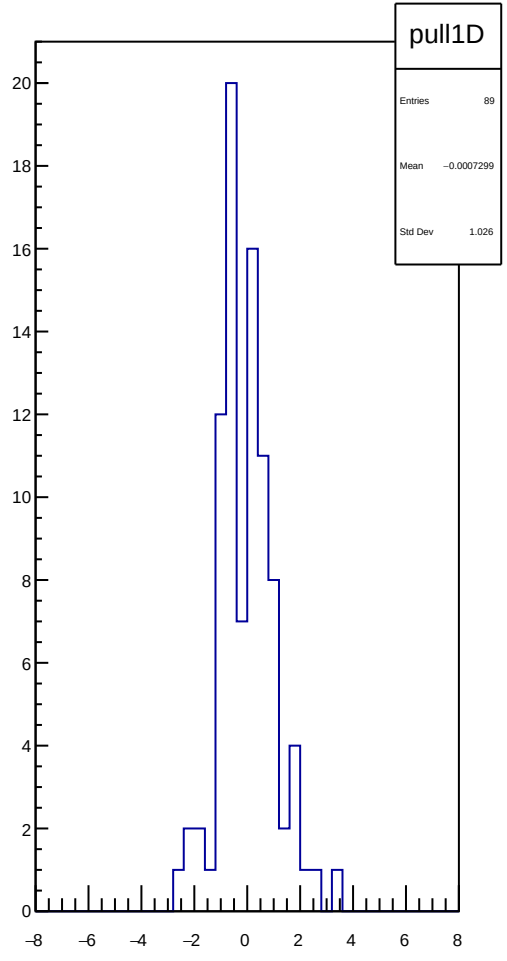

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3876 / 88
p0 1522 ± 1.138
1750
1700
1650
1600
1550
1500
1450
1400
1350

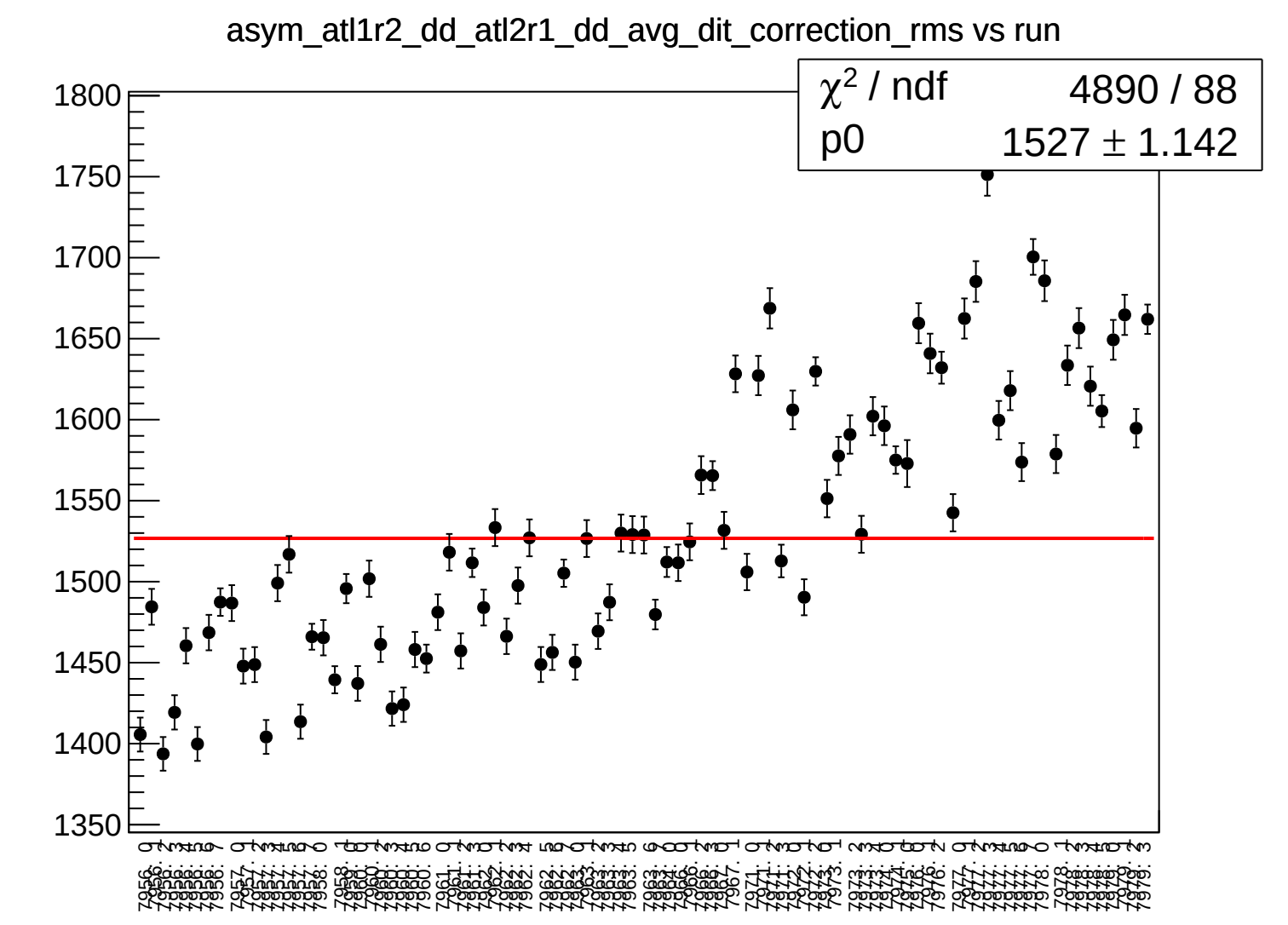

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 70.35 / 88
p0 −124.5 ± 1334
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −21.04
Std Dev 0
3
2
1
0
−1
−2

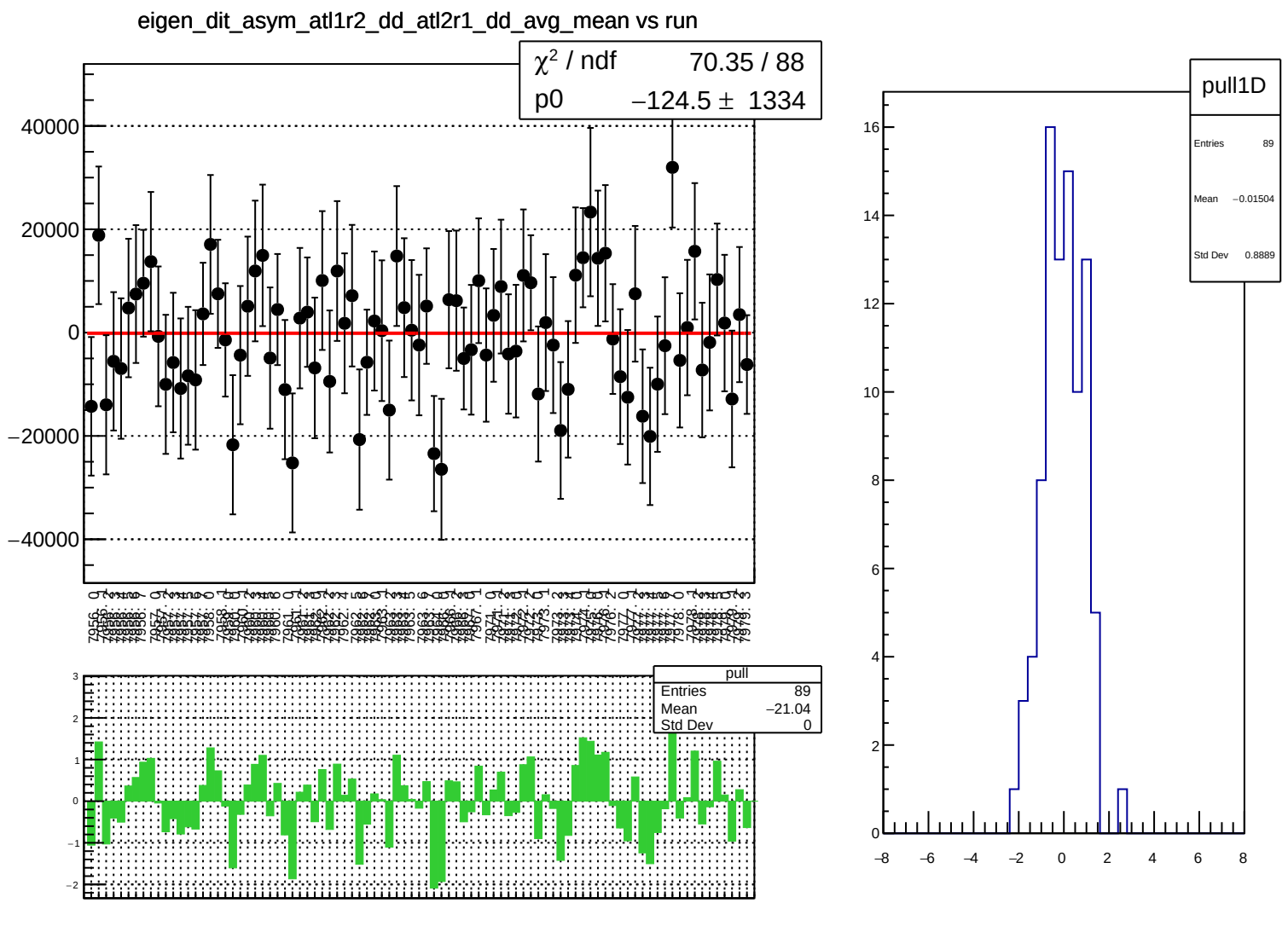

pull1D
Entries 89
Mean −0.01504
Std Dev 0.8889
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

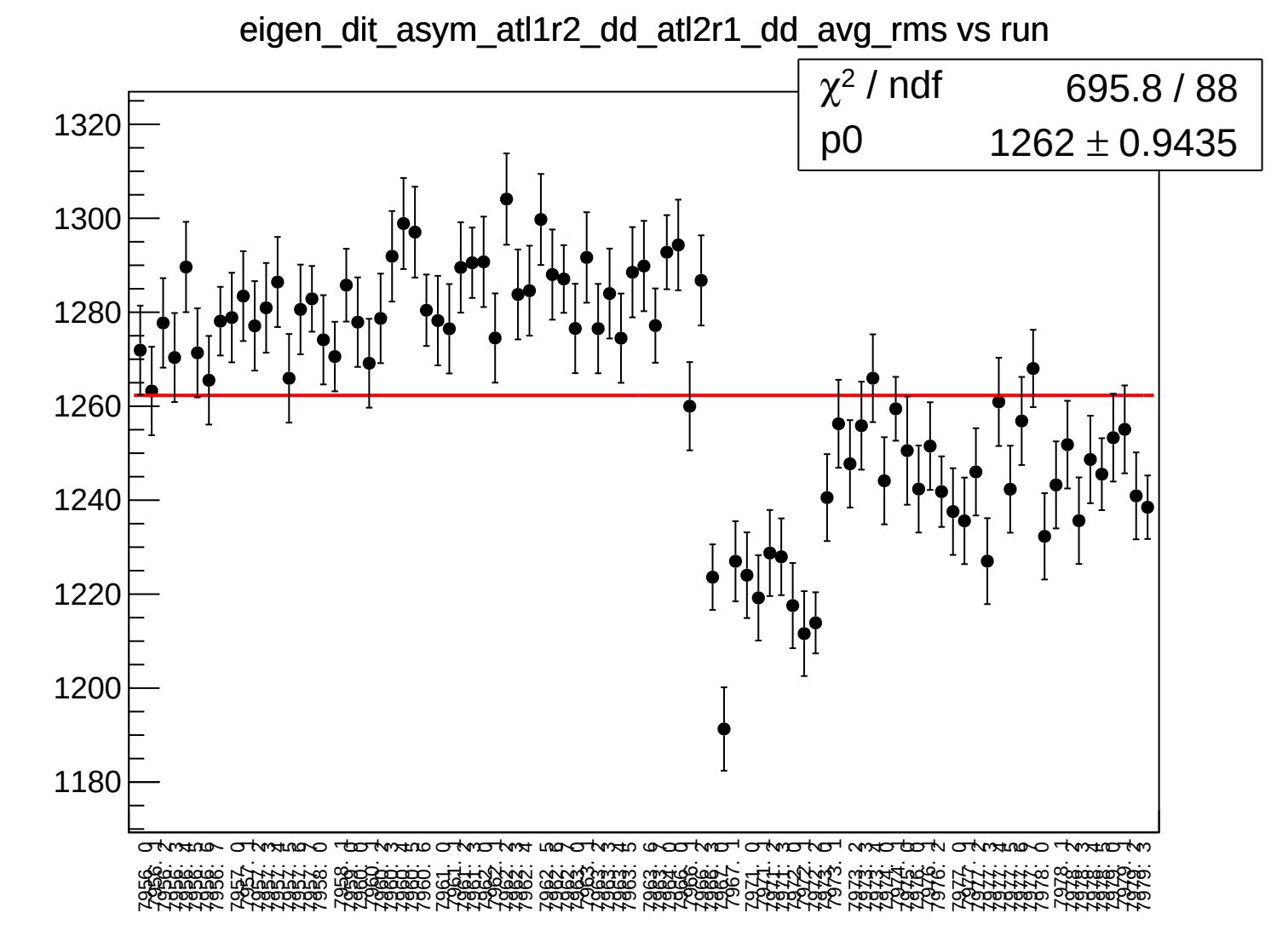

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 695.8 / 88
p0 1262 ± 0.9435
1320
1300
1280
1260
1240
1220
1200
1180

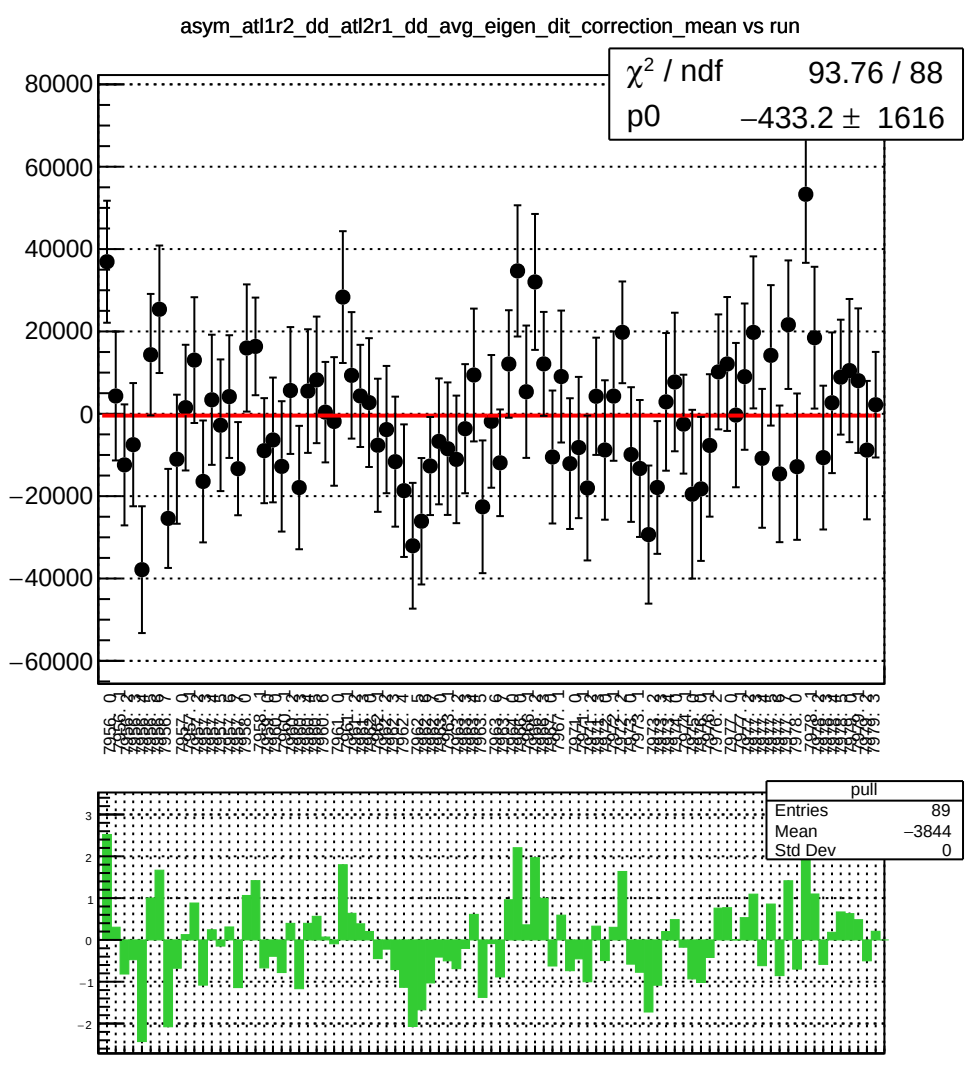

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 93.76 / 88
p0 −433.2 ± 1616
pull
Entries 89
Mean −3848
Std Dev 0

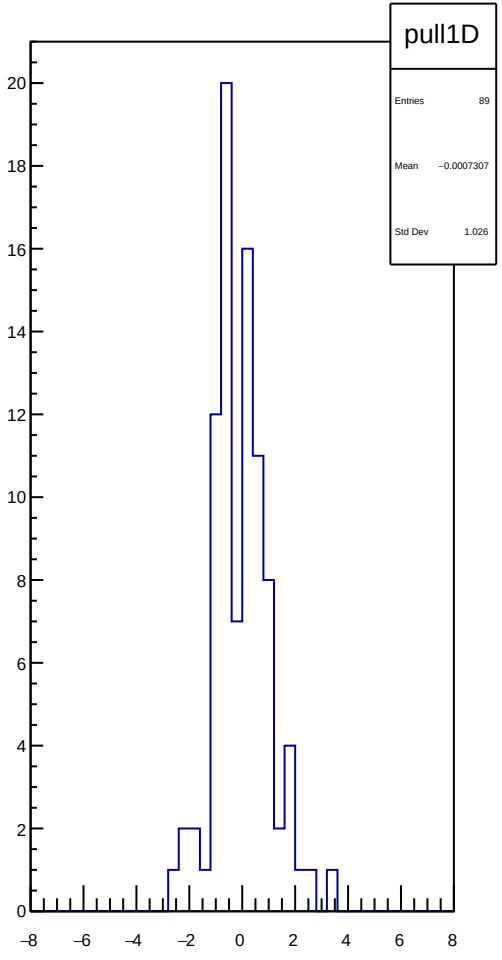

pull1D
Entries 89
Mean −0.0007299
Std Dev 1.026

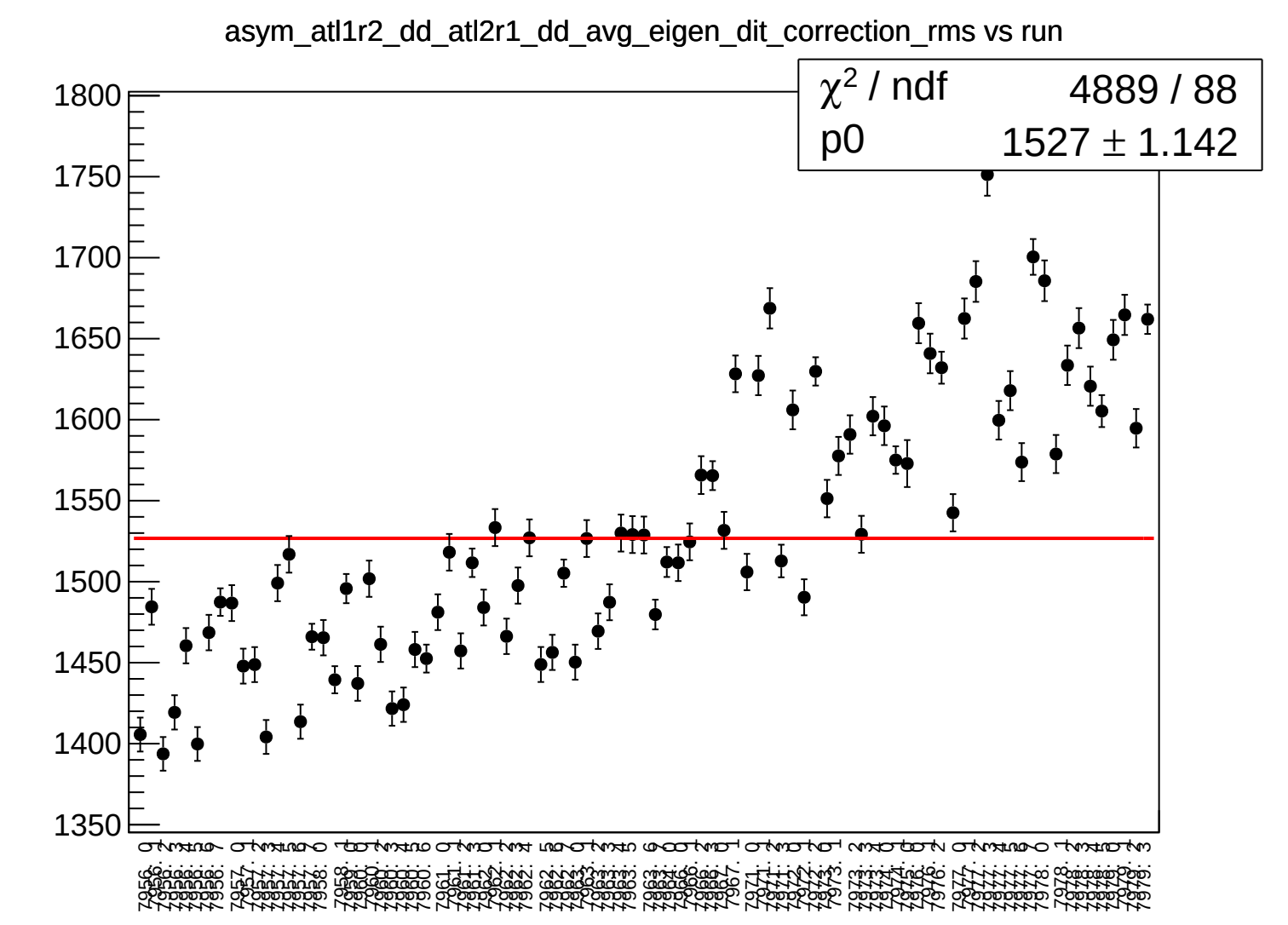

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 4890 / 88
p0 1527 ± 1.142
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

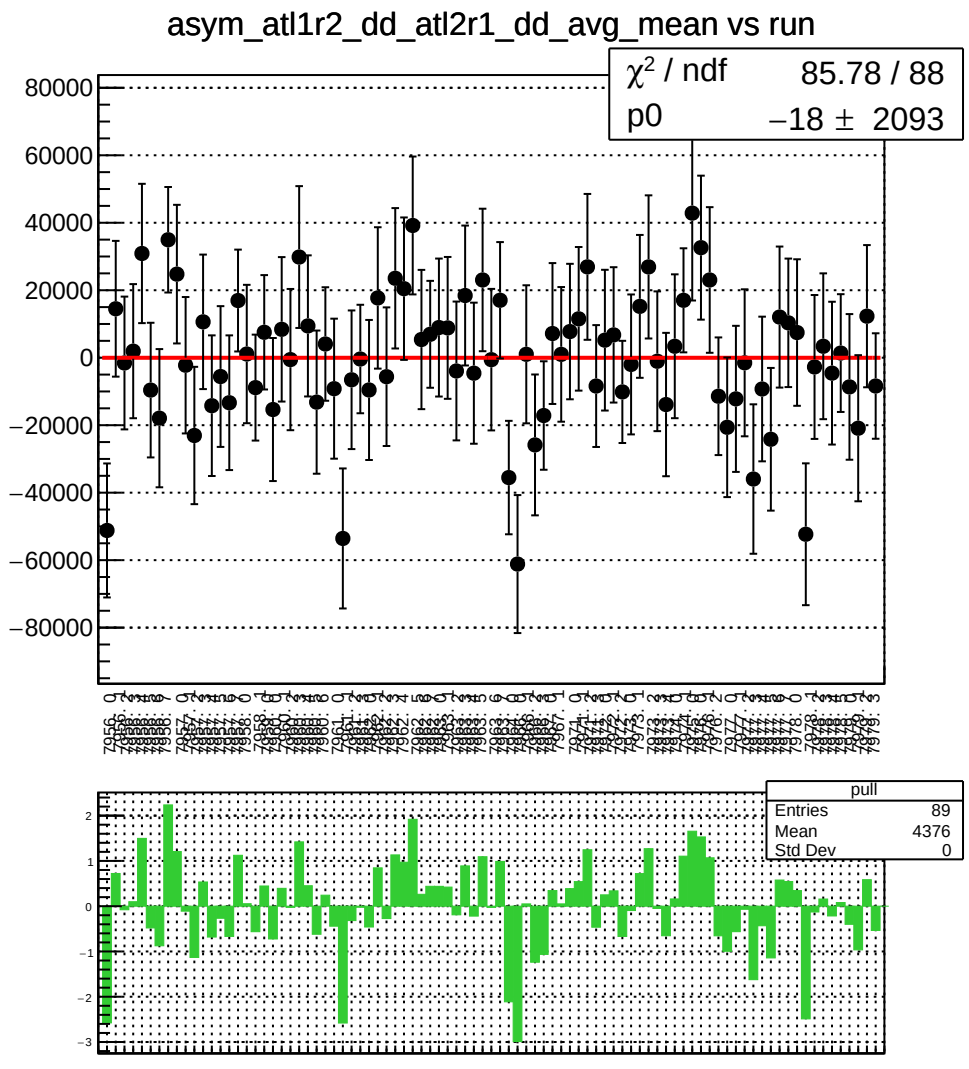

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 70.35 / 88
p0 −124.5 ± 1334
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −21.04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01504
Std Dev 0.8889
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

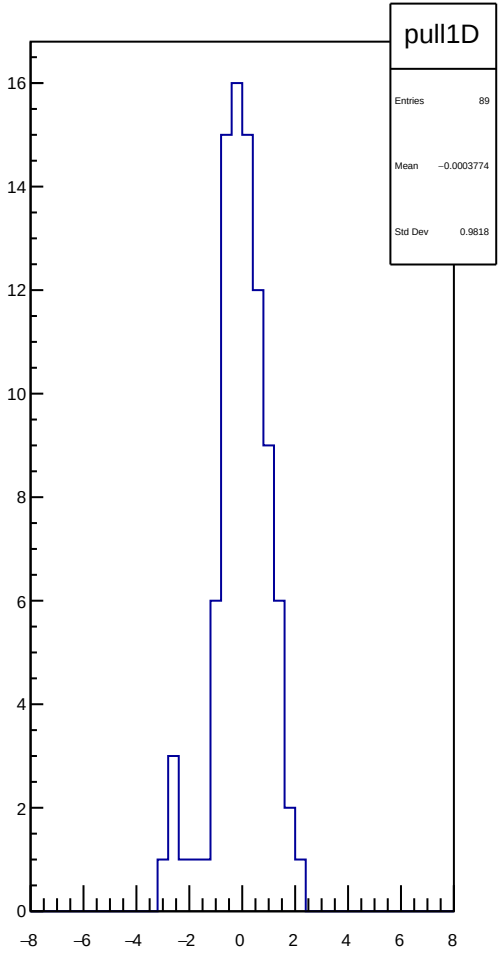

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 695.8 / 88
p0 1262 ± 0.9435
1320
1300
1280
1260
1240
1220
1200
1180

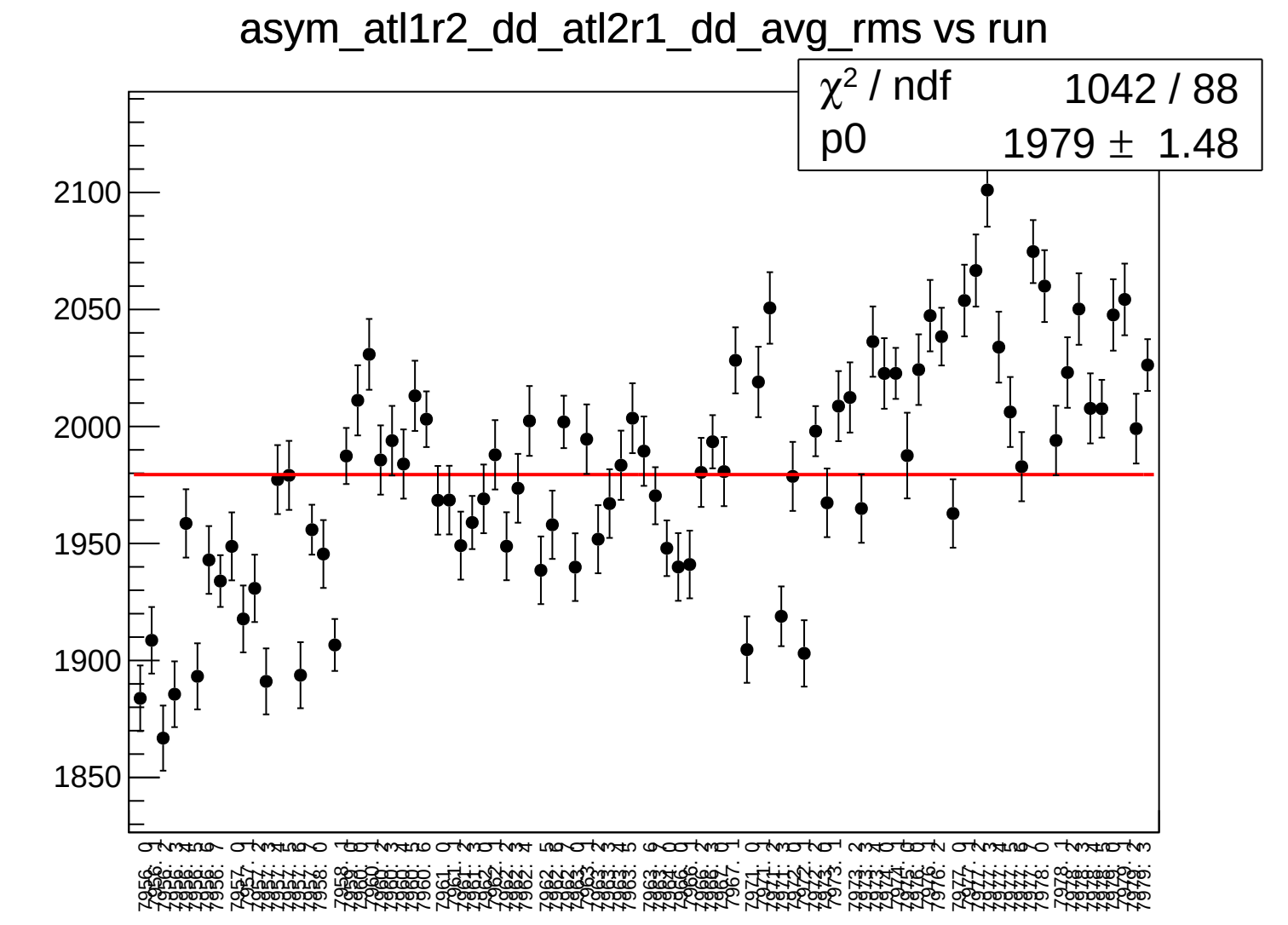

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 93.76 / 88
p0 −433.2 ± 1616
pull
Entries 89
Mean −3844
Std Dev 0

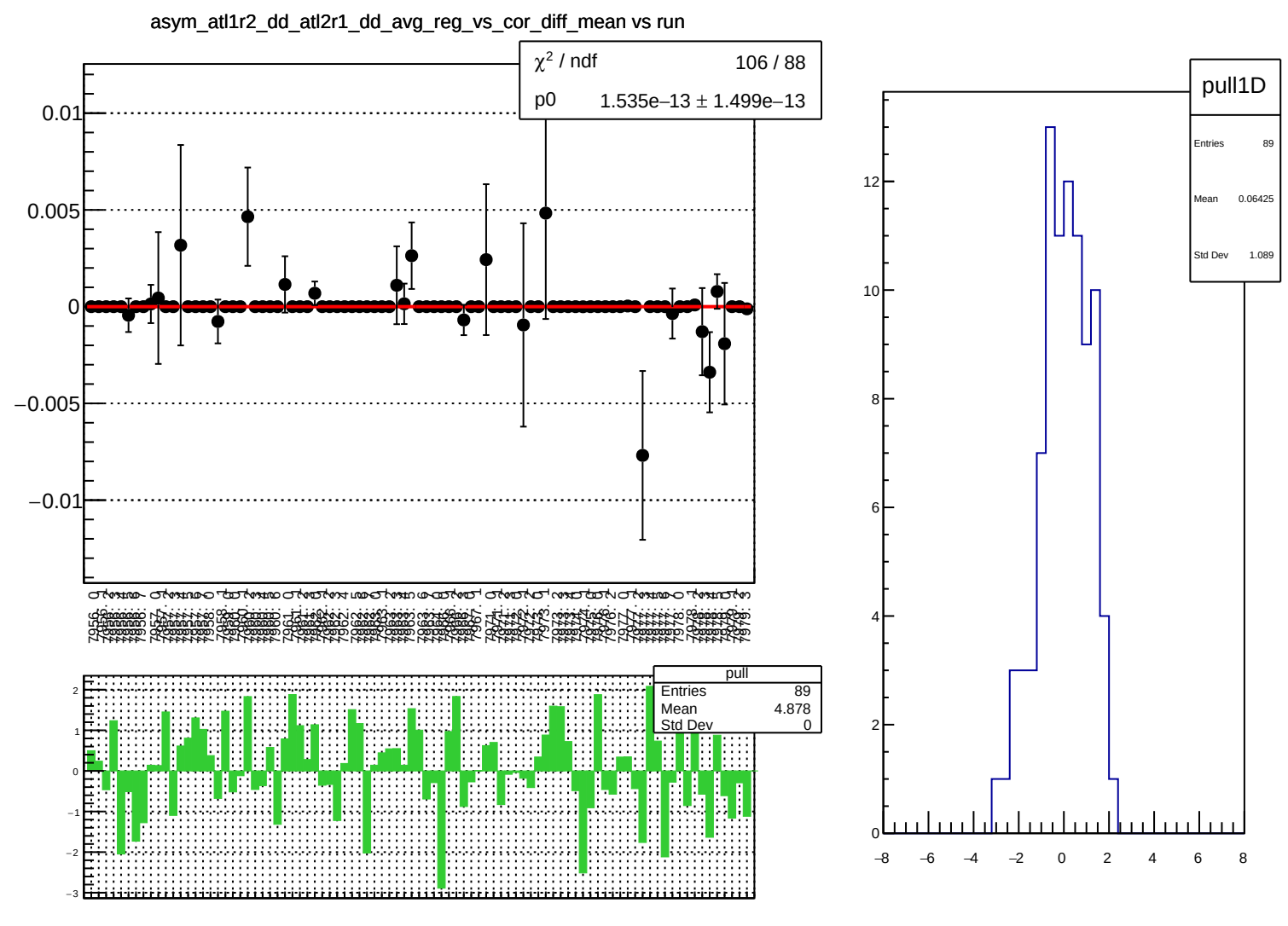

pull1D
Entries 89
Mean −0.0007307
Std Dev 1.026

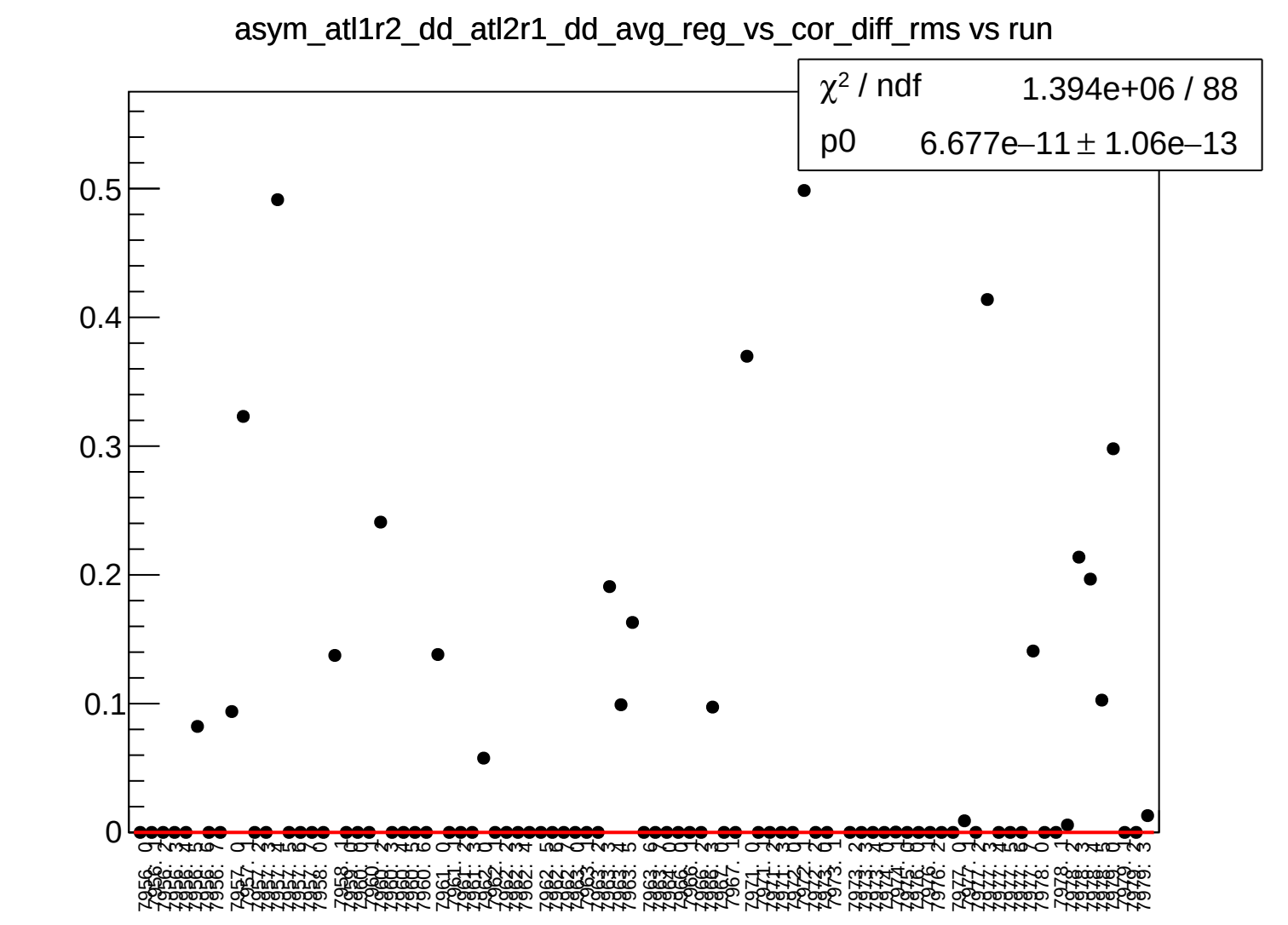

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4889 / 88
p0 1527 ± 1.142
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

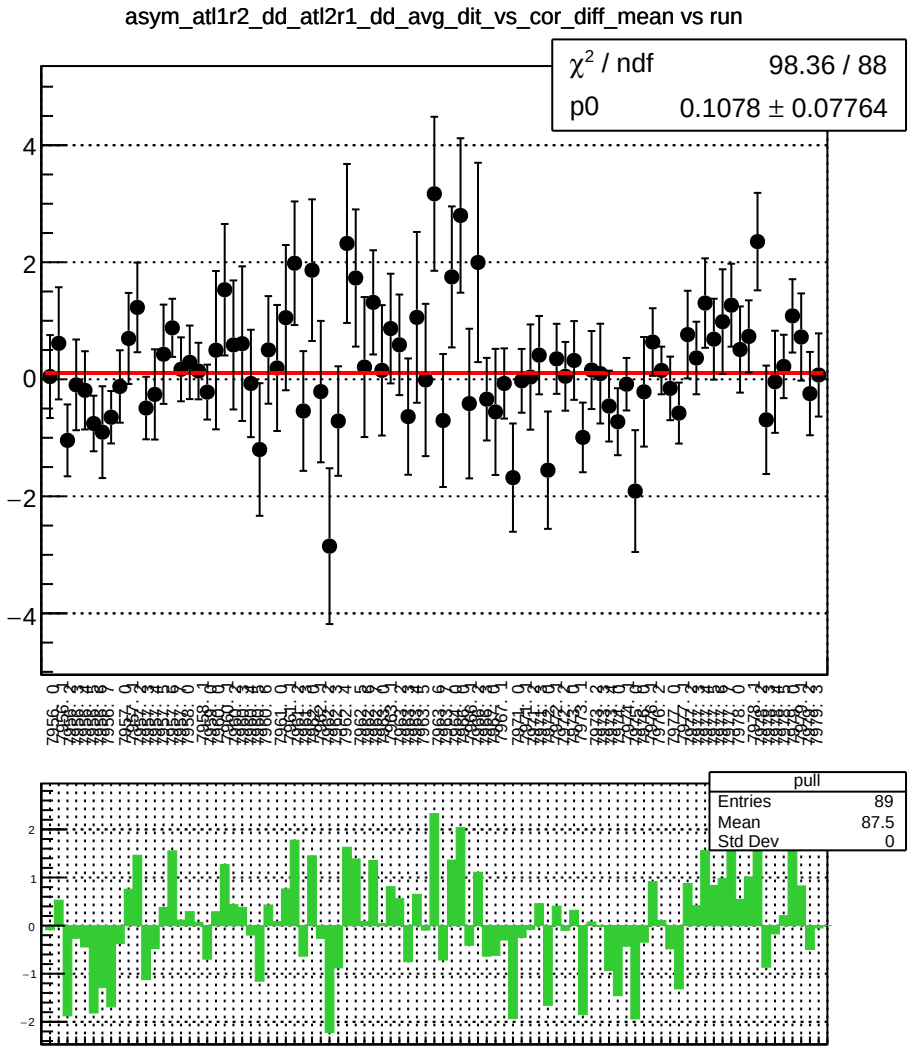

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 85.78 / 88
p0 −18 ± 2093
pull
Entries 89
Mean 4376
Std Dev 0

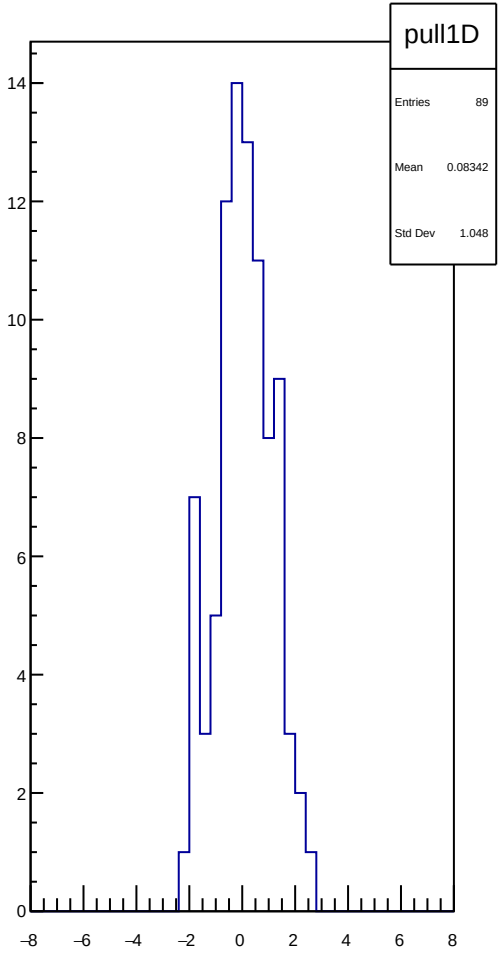

pull1D
Entries 89
Mean −0.0003774
Std Dev 0.9818

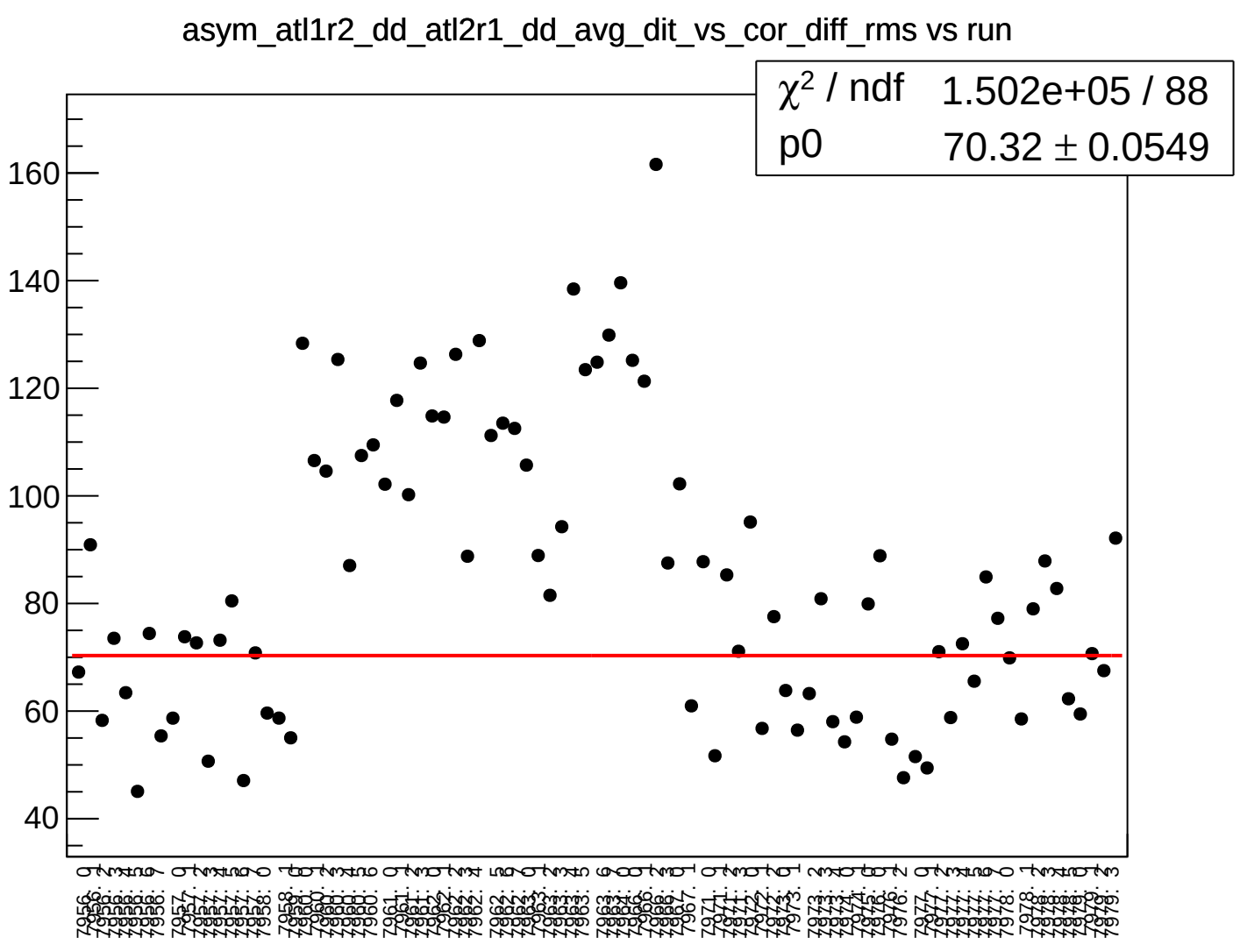

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1042 / 88
p0 1979 ± 1.48
2100
2050
2000
1950
1900
1850

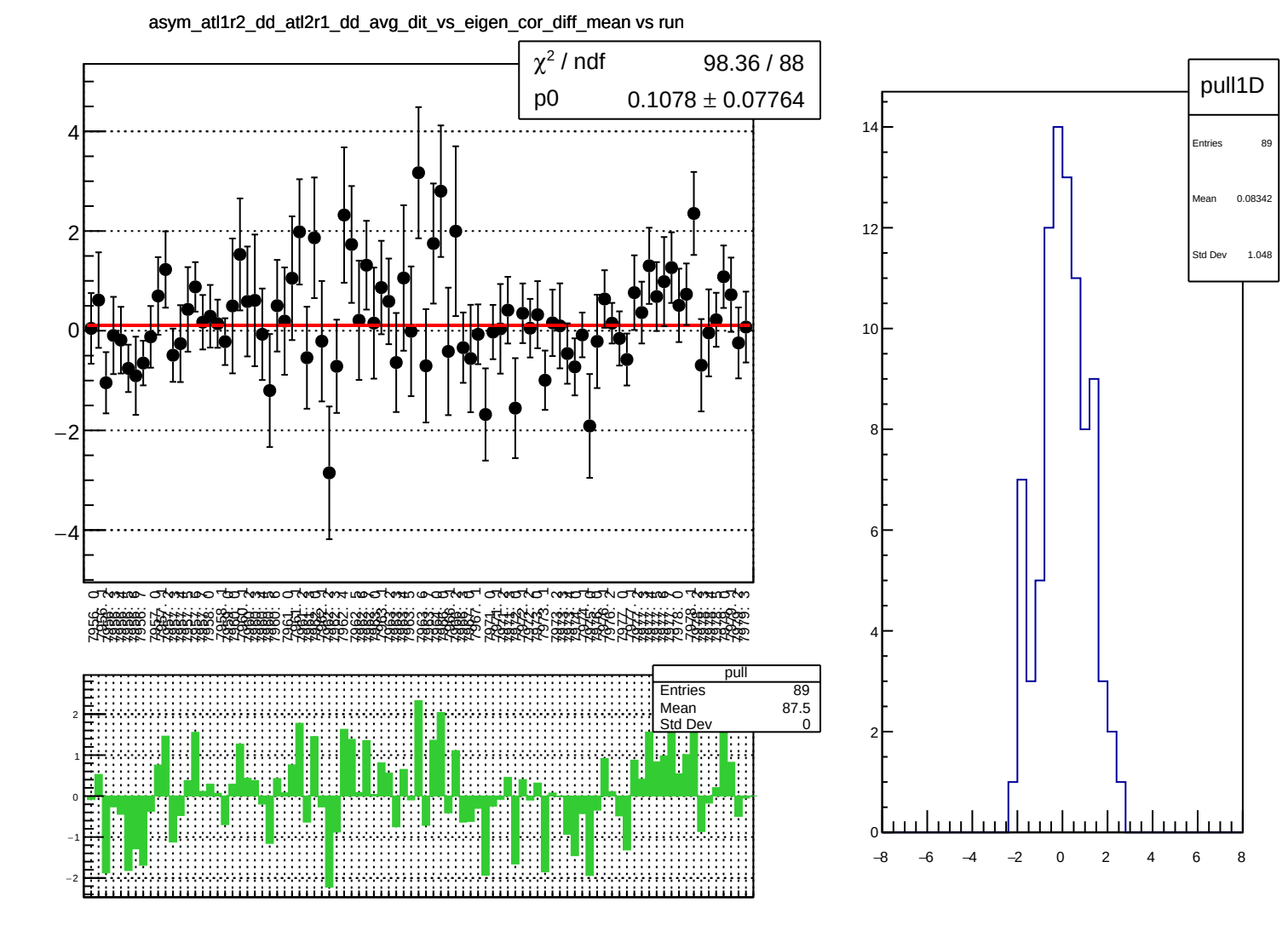

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106 / 88
p0 1.535e−13 ± 1.499e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 4.878
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.06425
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

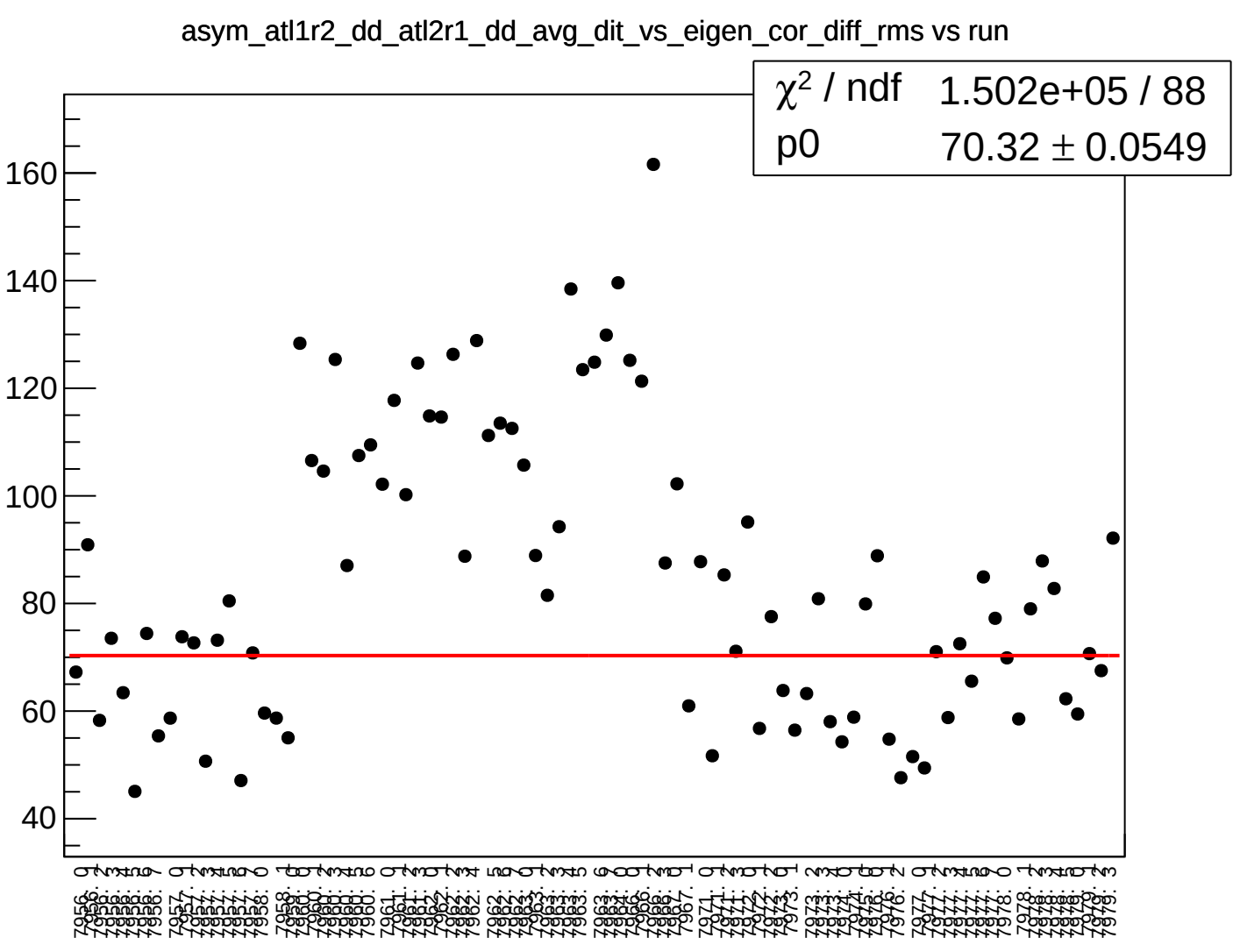

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.394e+06 / 88
p0 6.677e−11 ± 1.06e−13
0.5
0.4
0.3
0.2
0.1
0

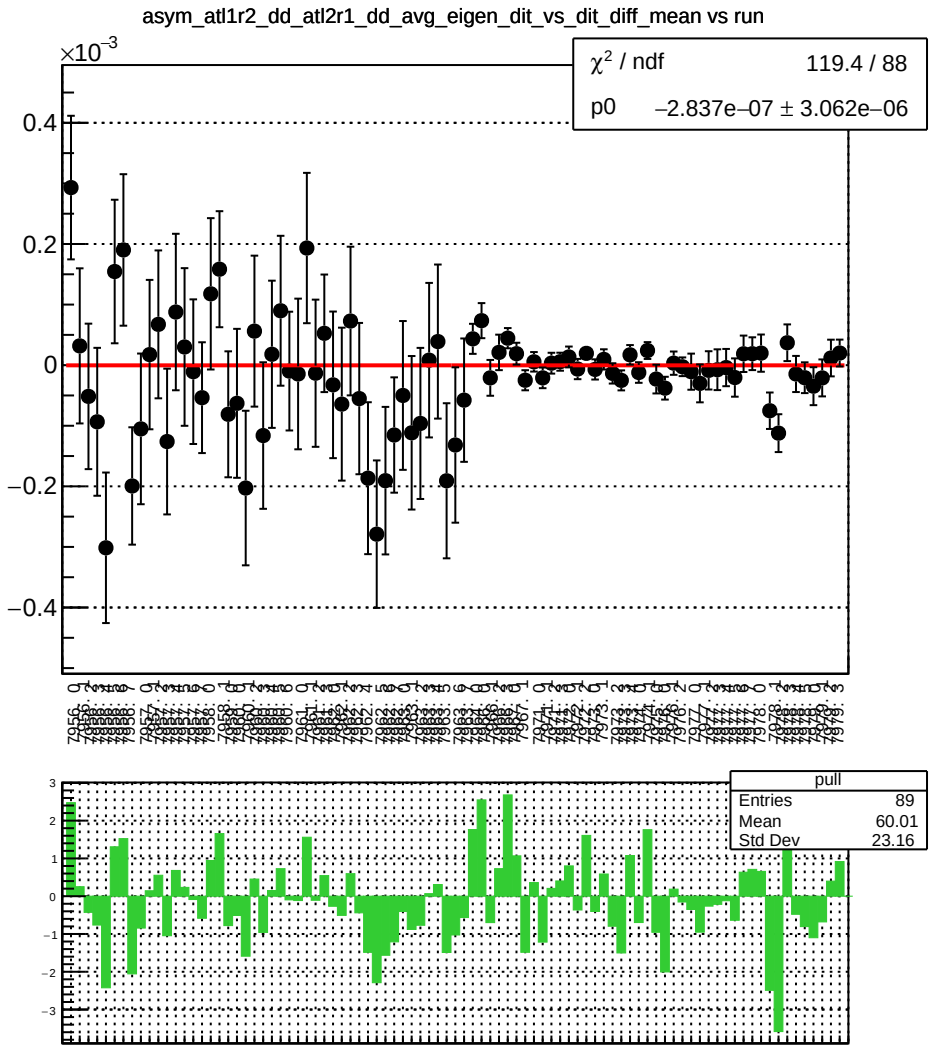

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.36 / 88
p0 0.1078 ± 0.07764
pull
Entries 89
Mean 87.5
Std Dev 0

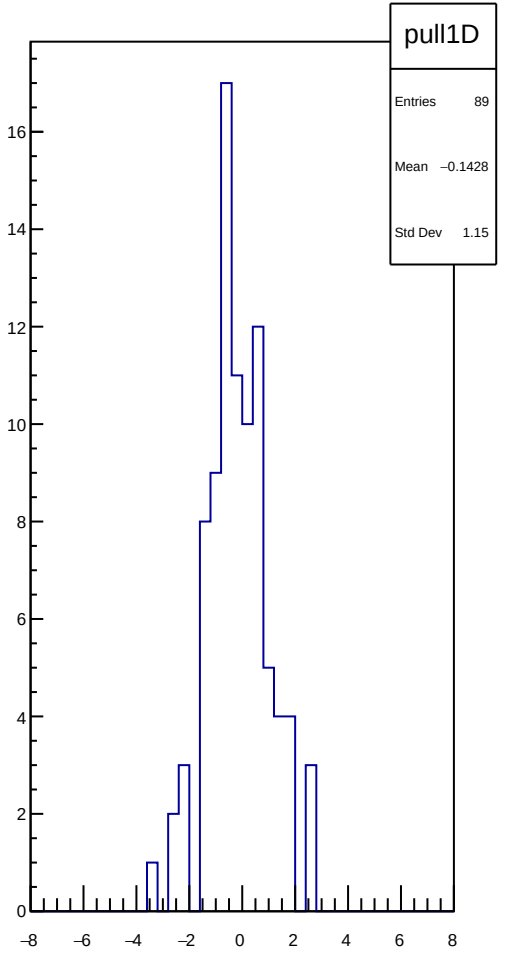

pull1D
Entries 89
Mean 0.08342
Std Dev 1.048

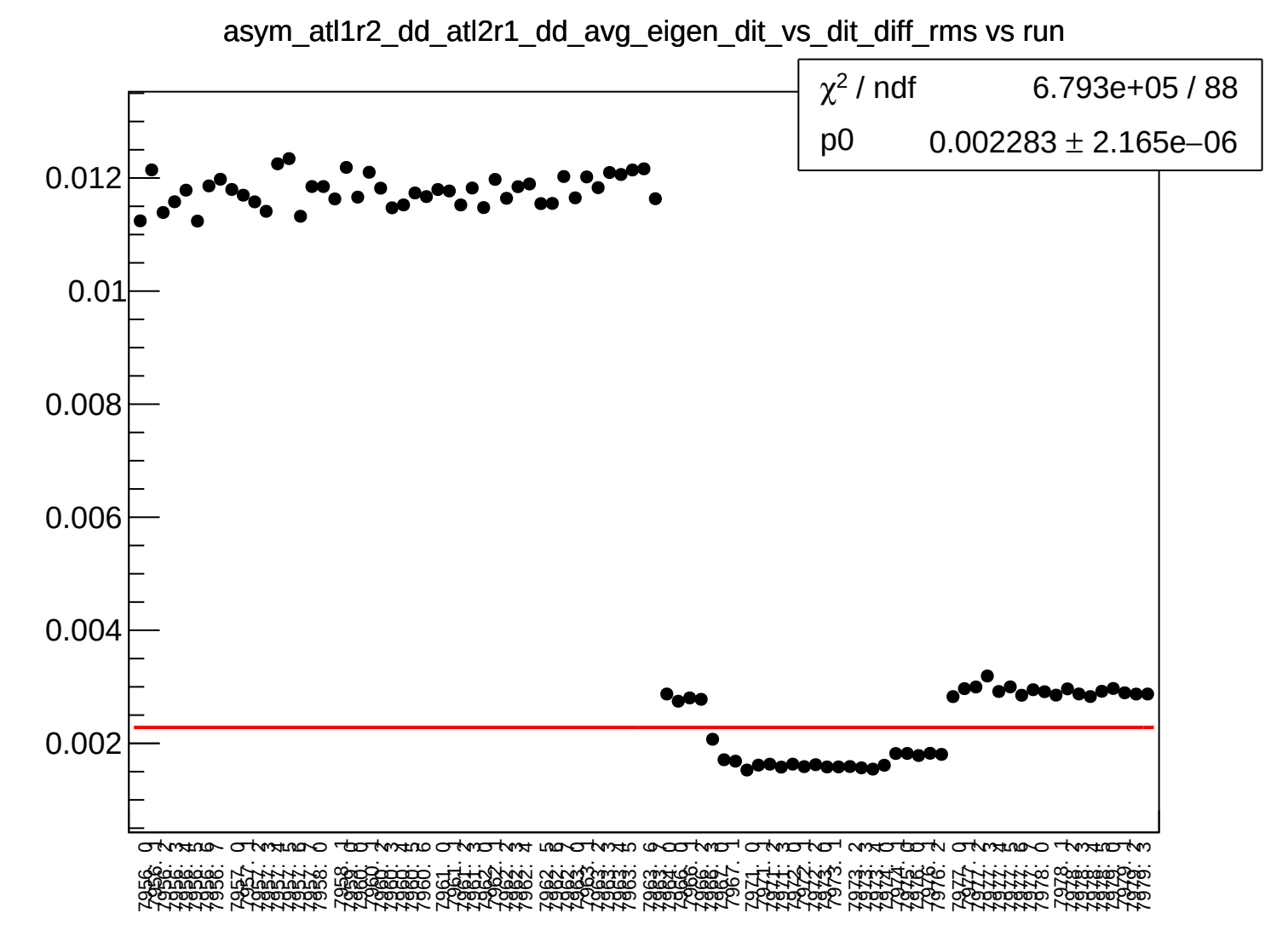

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.502e+05 / 88
p0 70.32 ± 0.0549
160
140
120
100
80
60
40

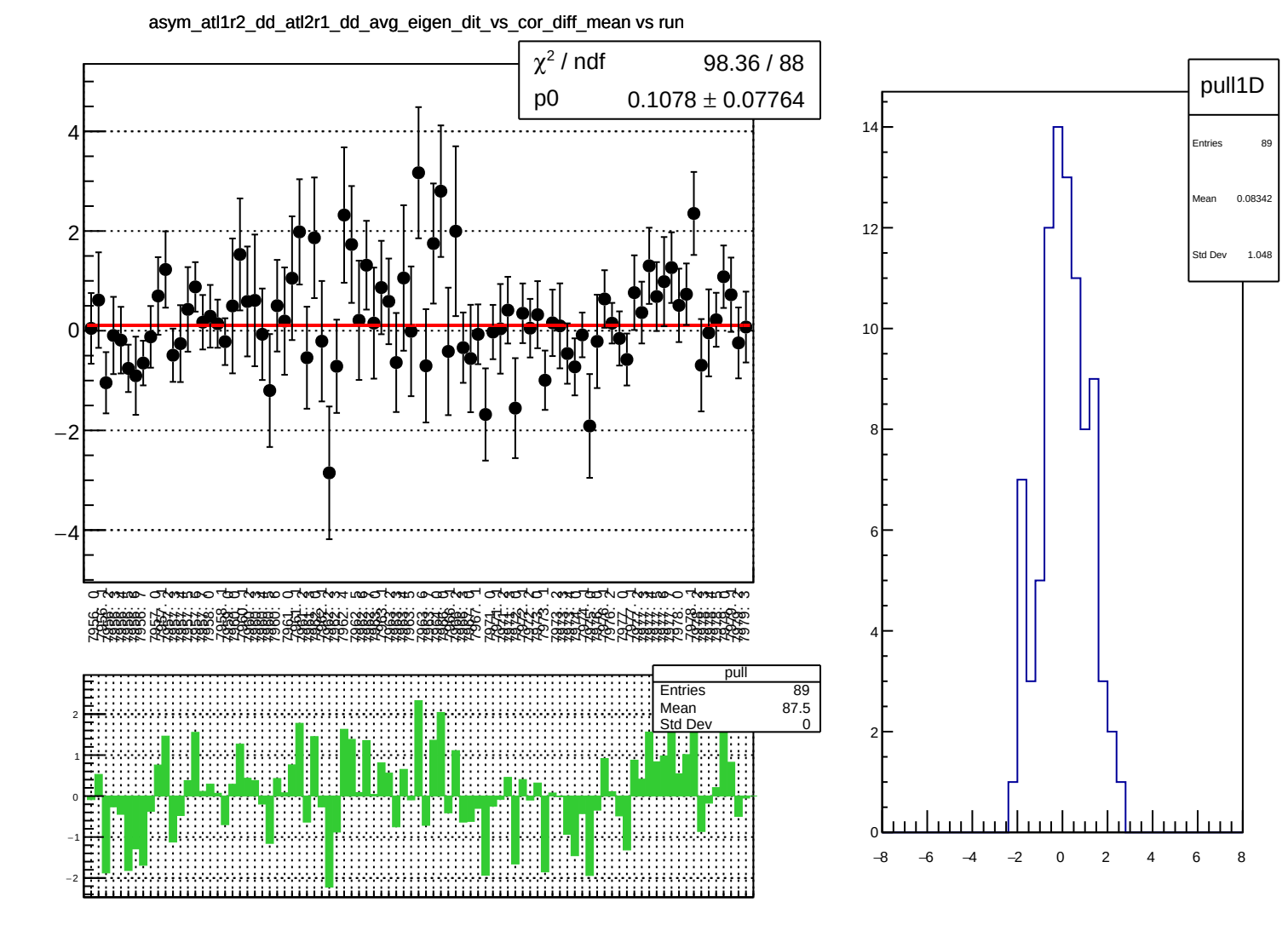

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.36 / 88
p0 0.1078 ± 0.07764
pull
Entries 89
Mean 87.5
Std Dev 0
pull1D
Entries 89
Mean 0.08342
Std Dev 1.048

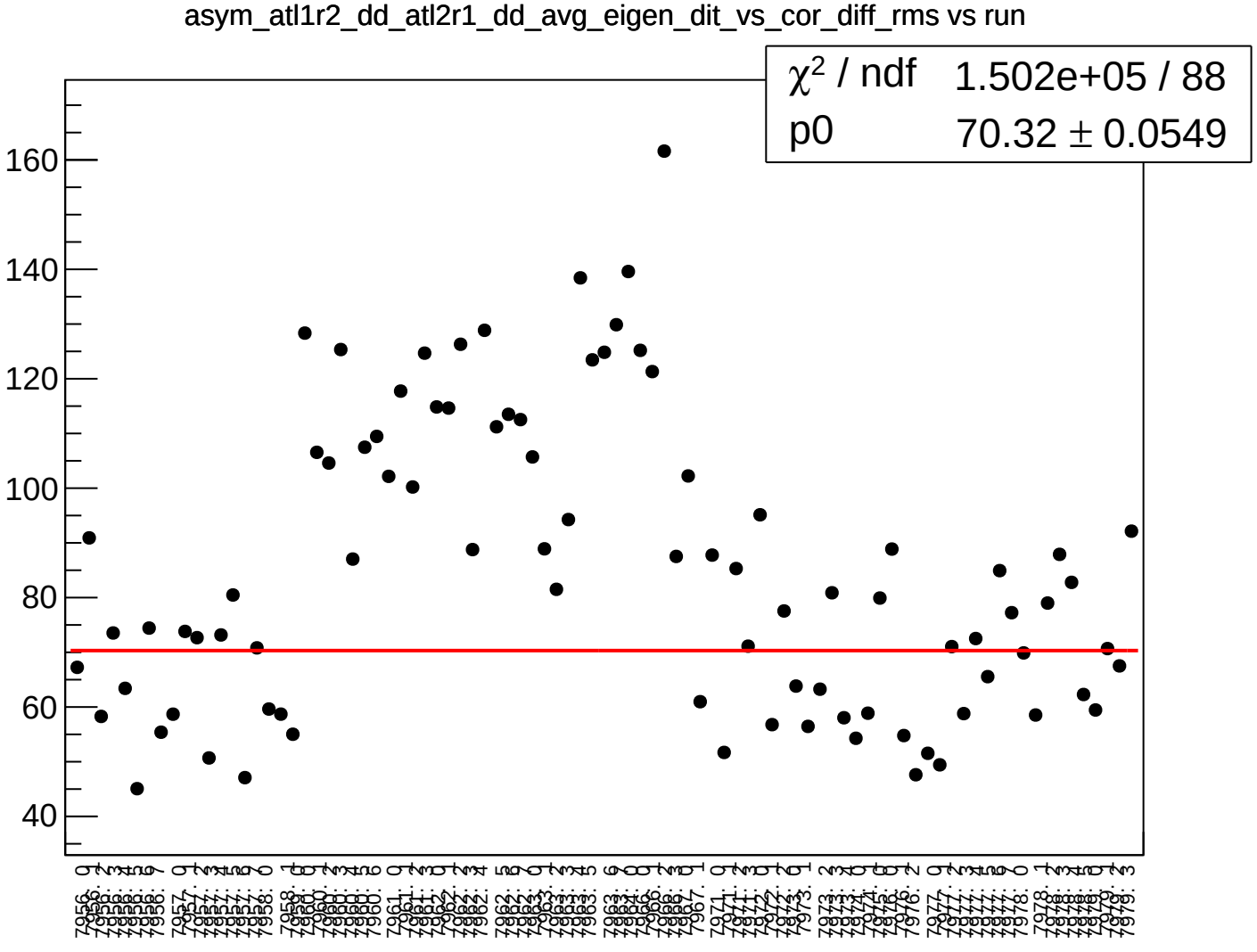

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.502e+05 / 88
p0 70.32 ± 0.0549
160
140
120
100
80
60
40

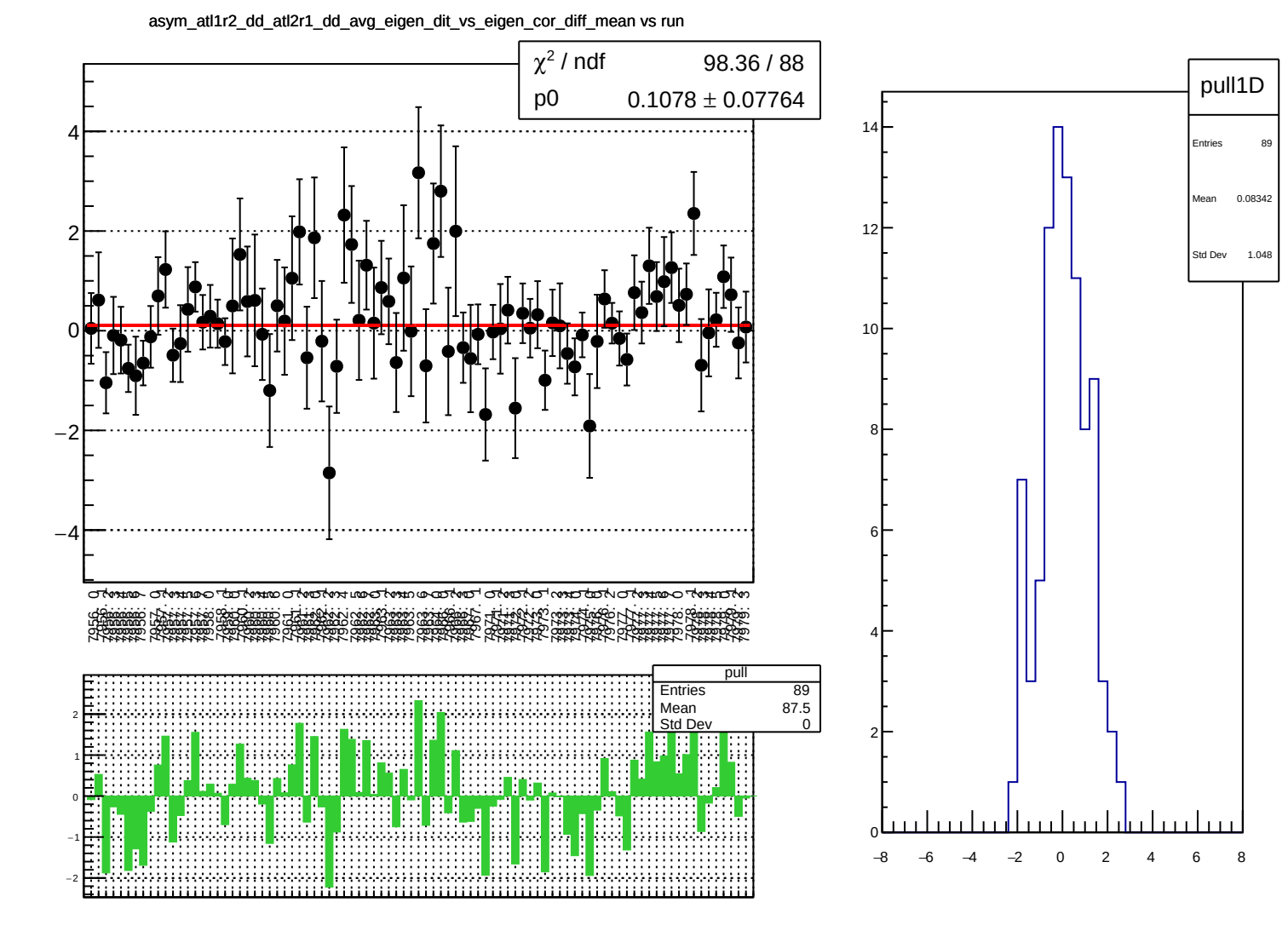

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 119.4 / 88
p0 −2.837e−07 ± 3.062e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 60.01
Std Dev 23.16
3
2
1
0
−1
−2
−3

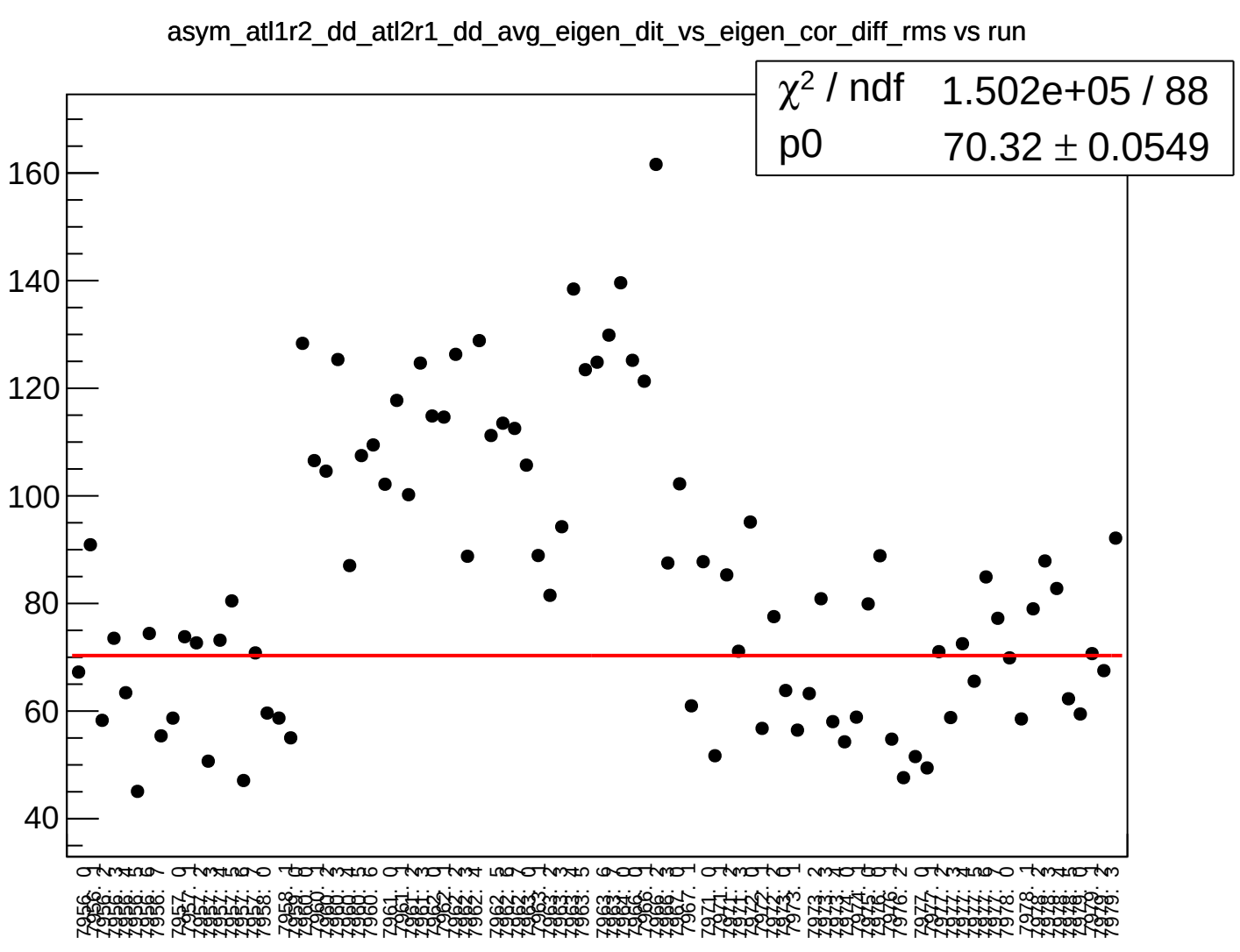

pull1D
Entries 89
Mean −0.1428
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

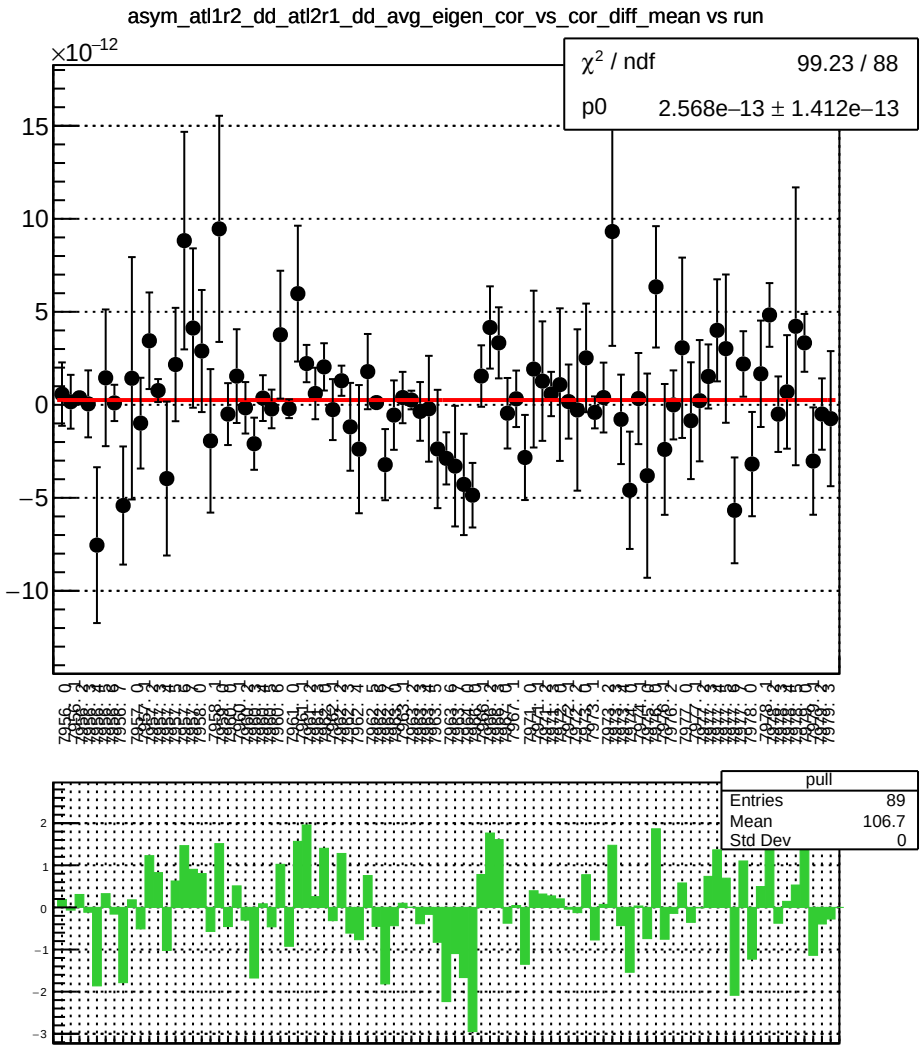

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.793e+05 / 88
p0 0.002283 ± 2.165e−06
0.012
0.01
0.008
0.006
0.004
0.002

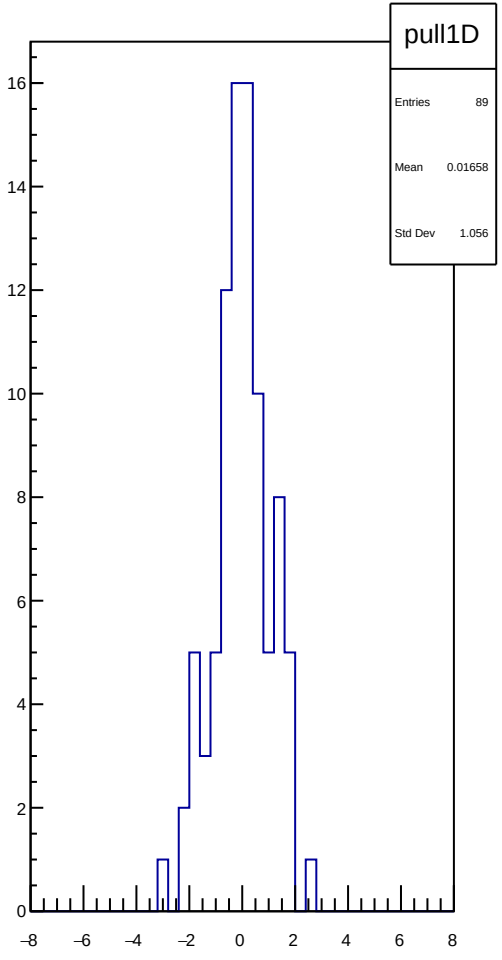

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.36 / 88
p0 0.1078 ± 0.07764
pull
Entries 89
Mean 87.5
Std Dev 0
pull1D
Entries 89
Mean 0.08342
Std Dev 1.048

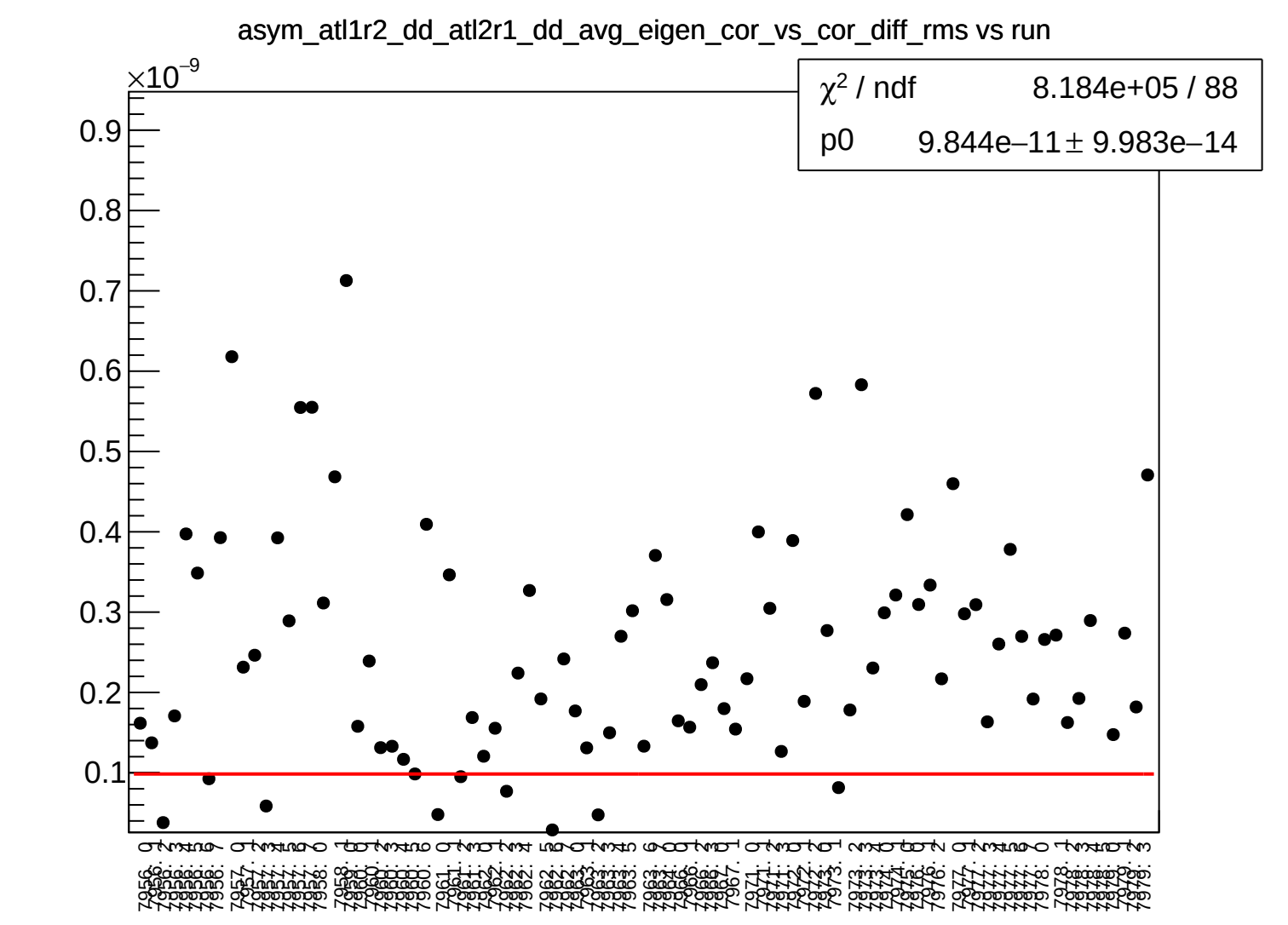

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.502e+05 / 88
p0 70.32 ± 0.0549
160
140
120
100
80
60
40

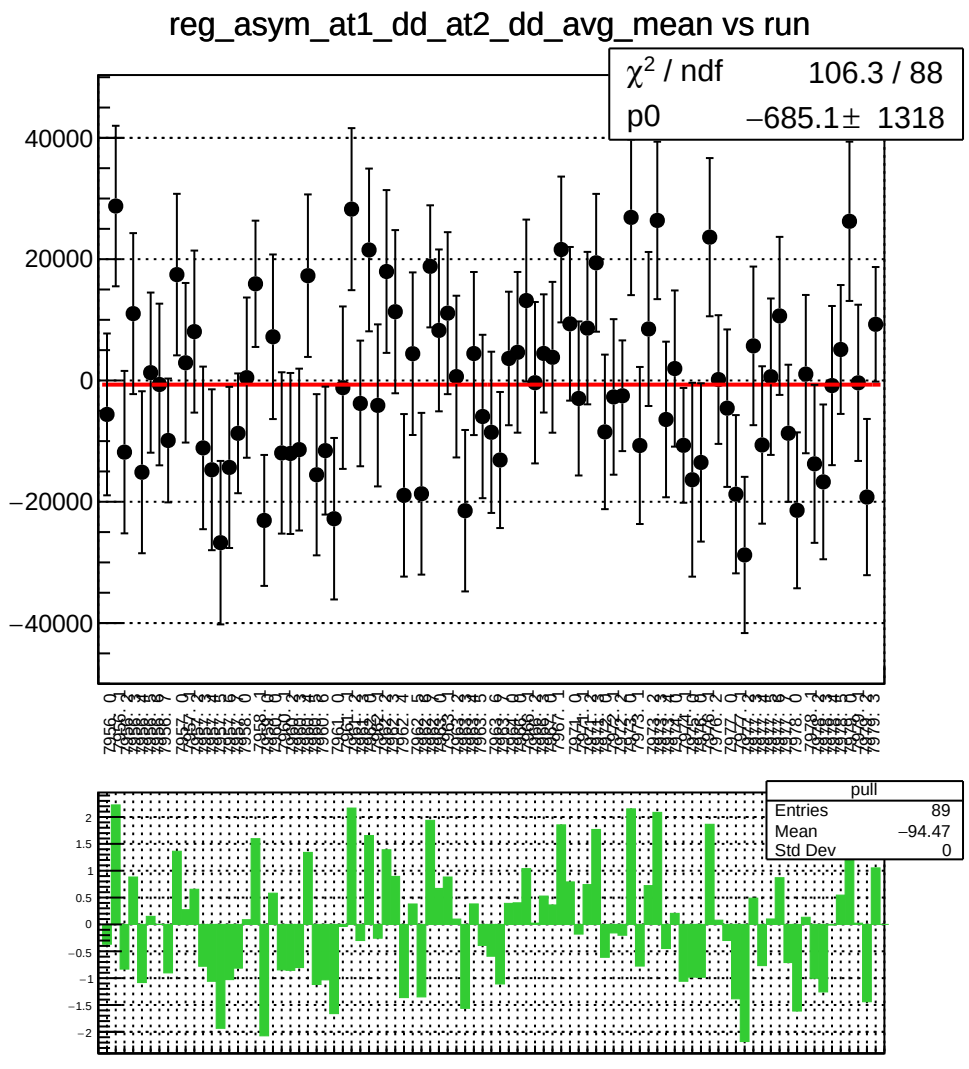

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.36 / 88
p0 0.1078 ± 0.07764
pull
Entries 89
Mean 87.5
Std Dev 0
pull1D
Entries 89
Mean 0.08342
Std Dev 1.048

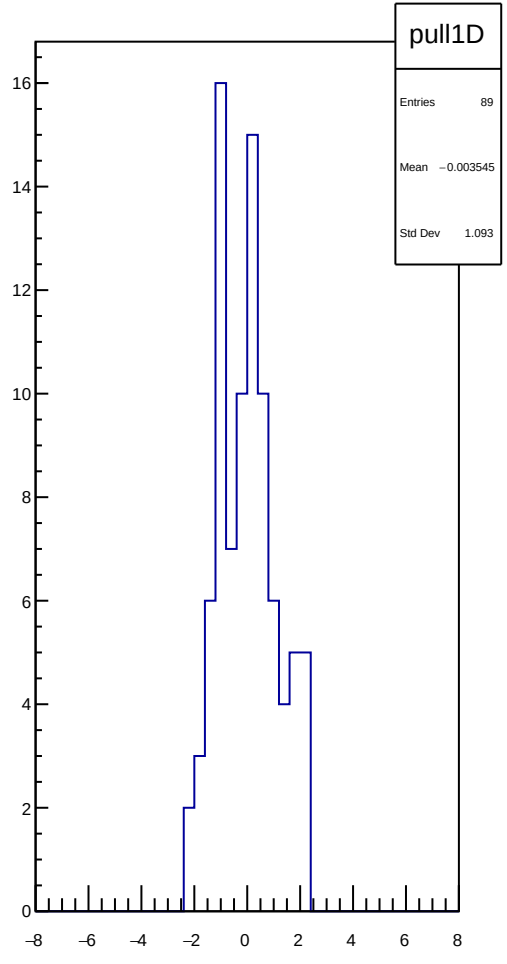

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.502e+05 / 88
p0 70.32 ± 0.0549
160
140
120
100
80
60
40

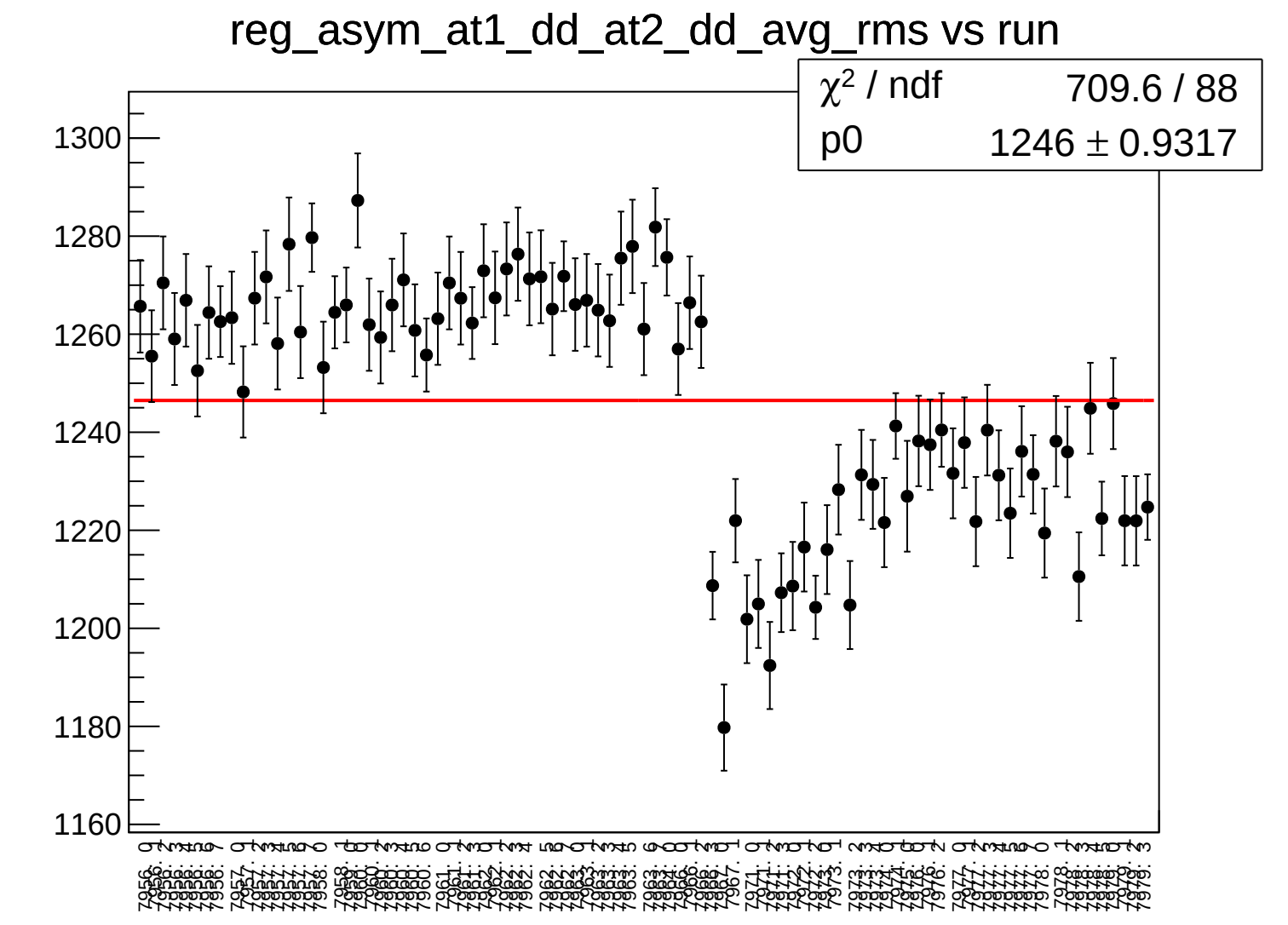

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.23 / 88
p0 2.568e−13 ± 1.412e−13
pull
Entries 89
Mean 106.7
Std Dev 0

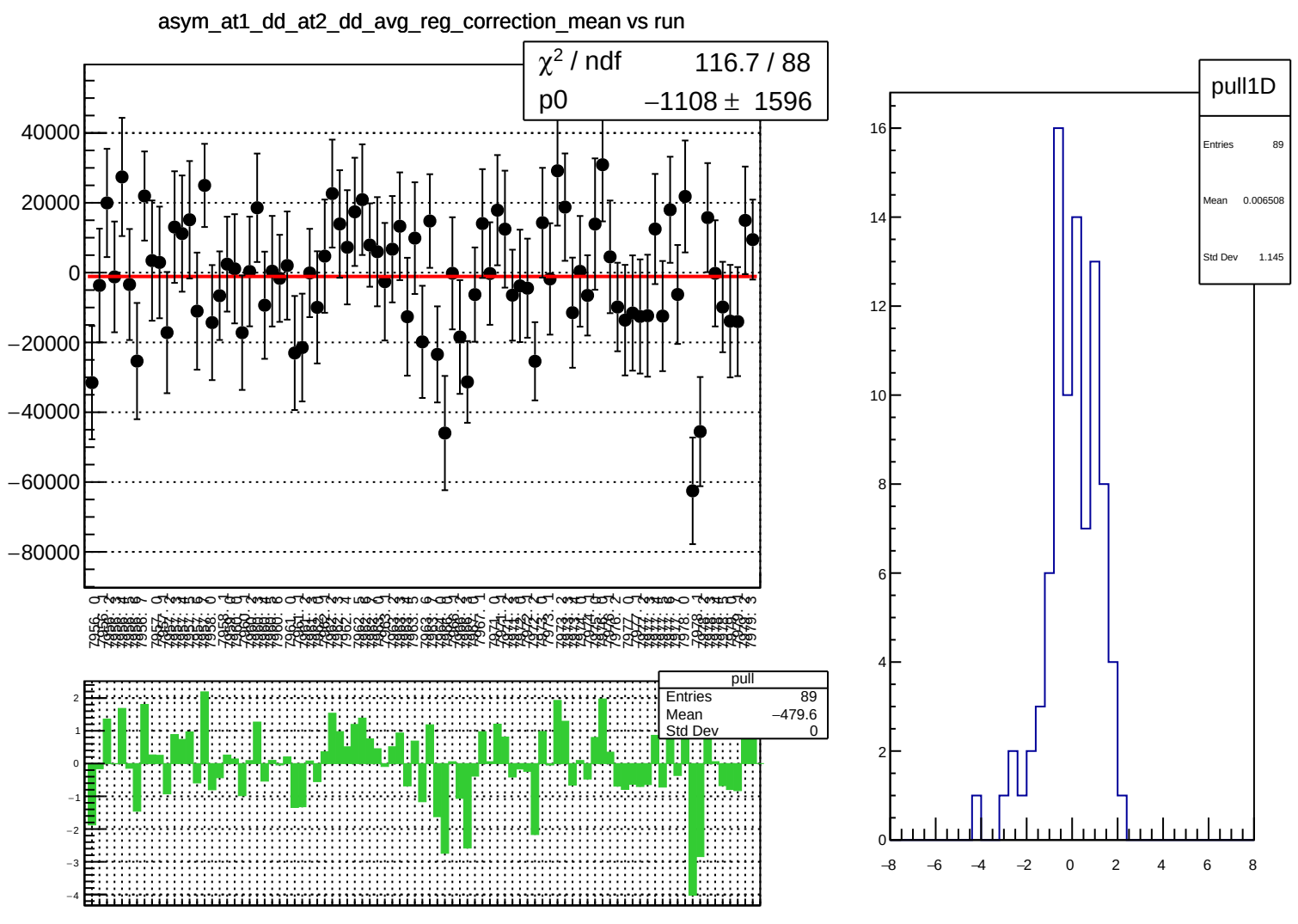

pull1D
Entries 89
Mean 0.01658
Std Dev 1.056

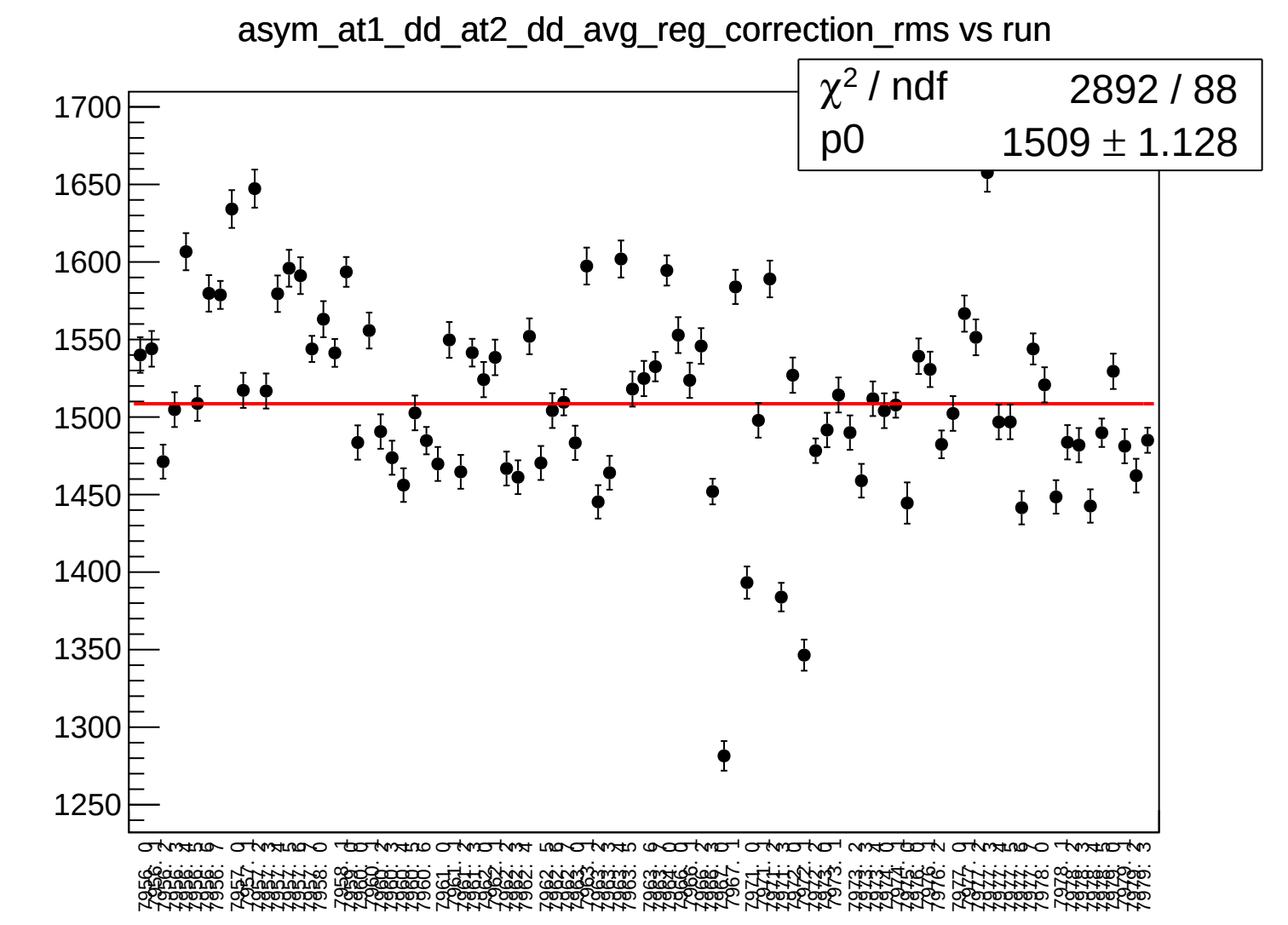

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.184e+05 / 88
p0 9.844e−11 ± 9.983e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

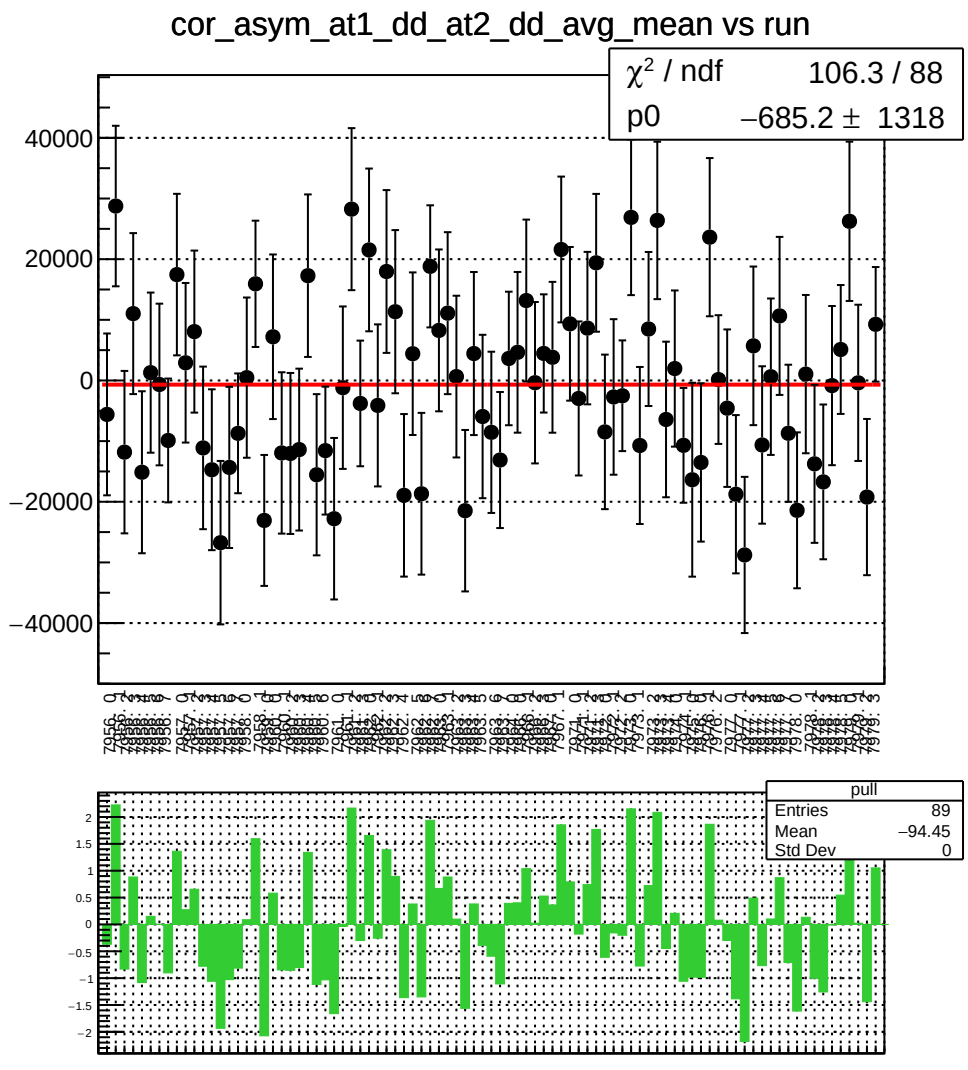

reg_asym_at1_dd_at2_dd_avg_mean vs run
$\chi^2$ / ndf 106.3 / 88
p0 −685.1± 1318
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −94.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

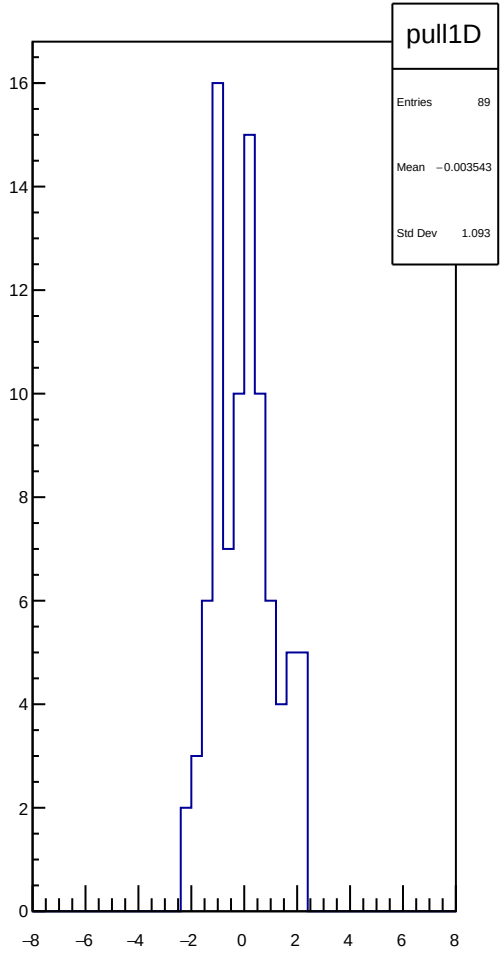

pull1D
Entries 89
Mean −0.003545
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

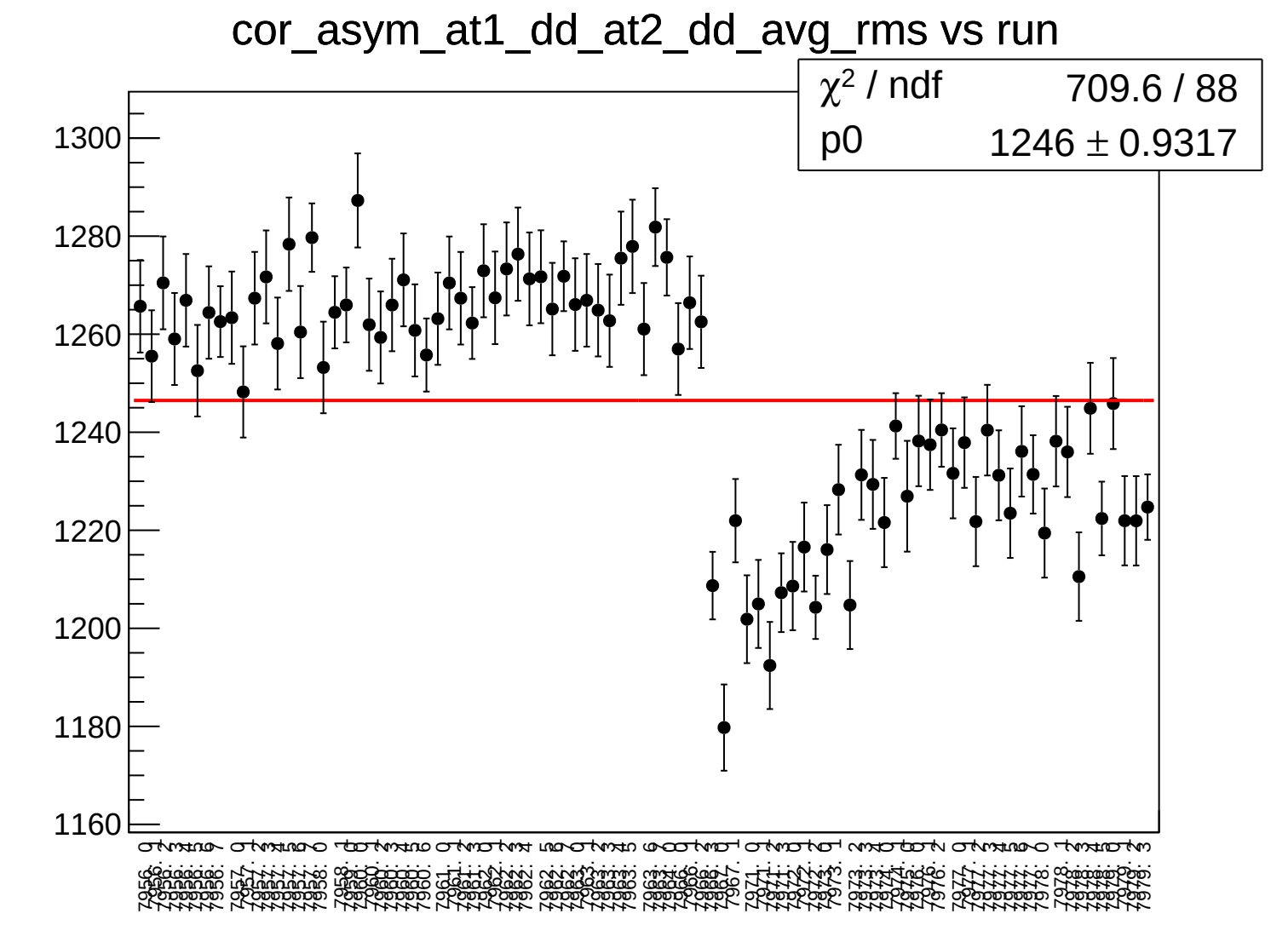

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 709.6 / 88
p0 1246 ± 0.9317
1300
1280
1260
1240
1220
1200
1180
1160

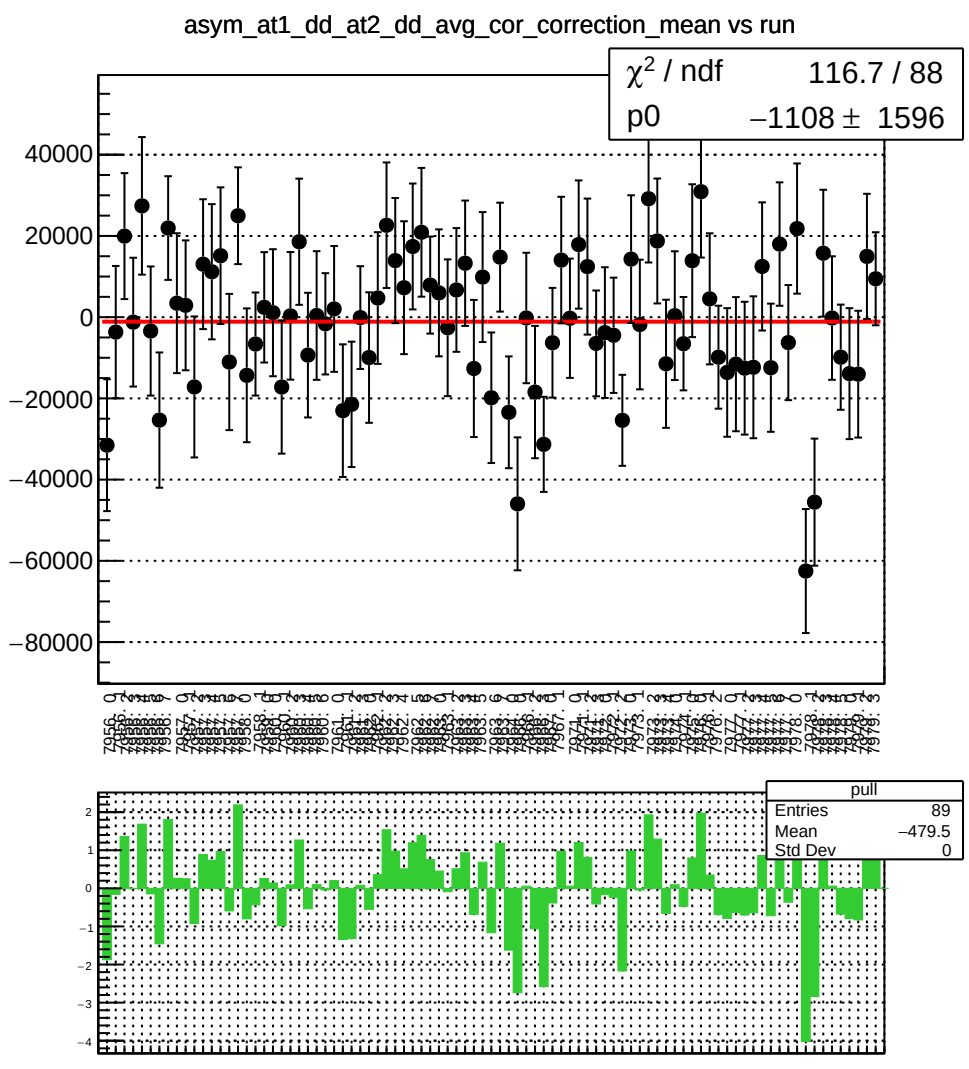

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 116.7 / 88
p0 −1108 ± 1596
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −479.6
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean 0.006508
Std Dev 1.145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

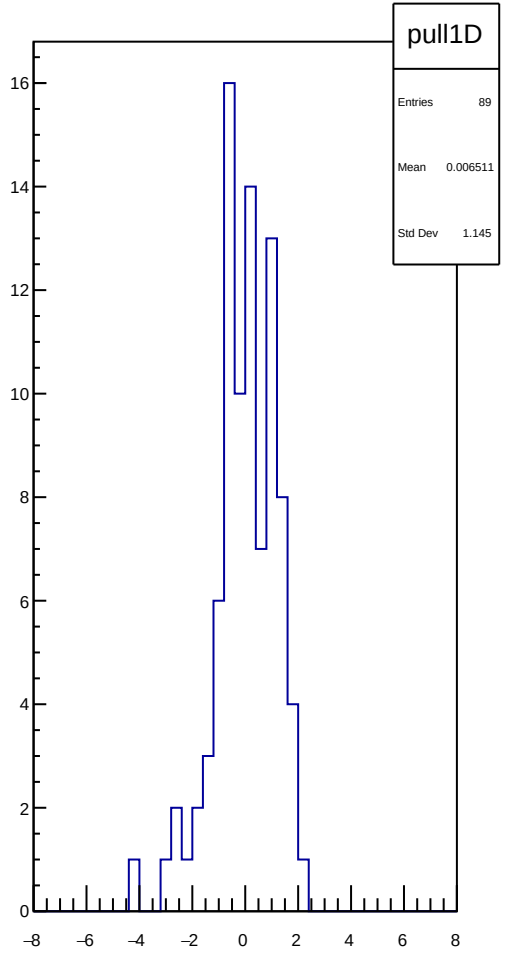

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 2892 / 88
p0 1509 ± 1.128
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250

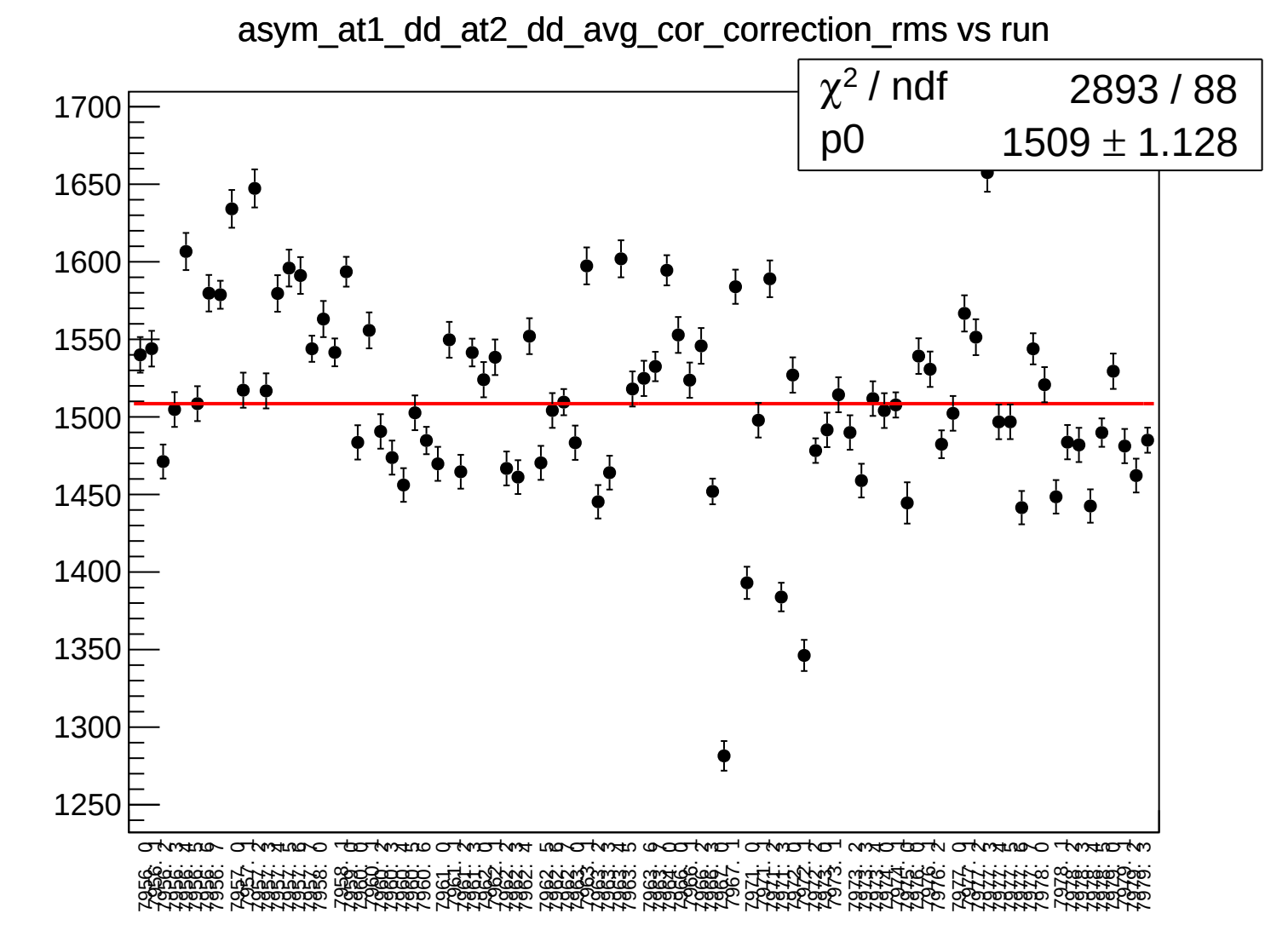

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 106.3 / 88
p0 −685.2 ± 1318
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −94.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

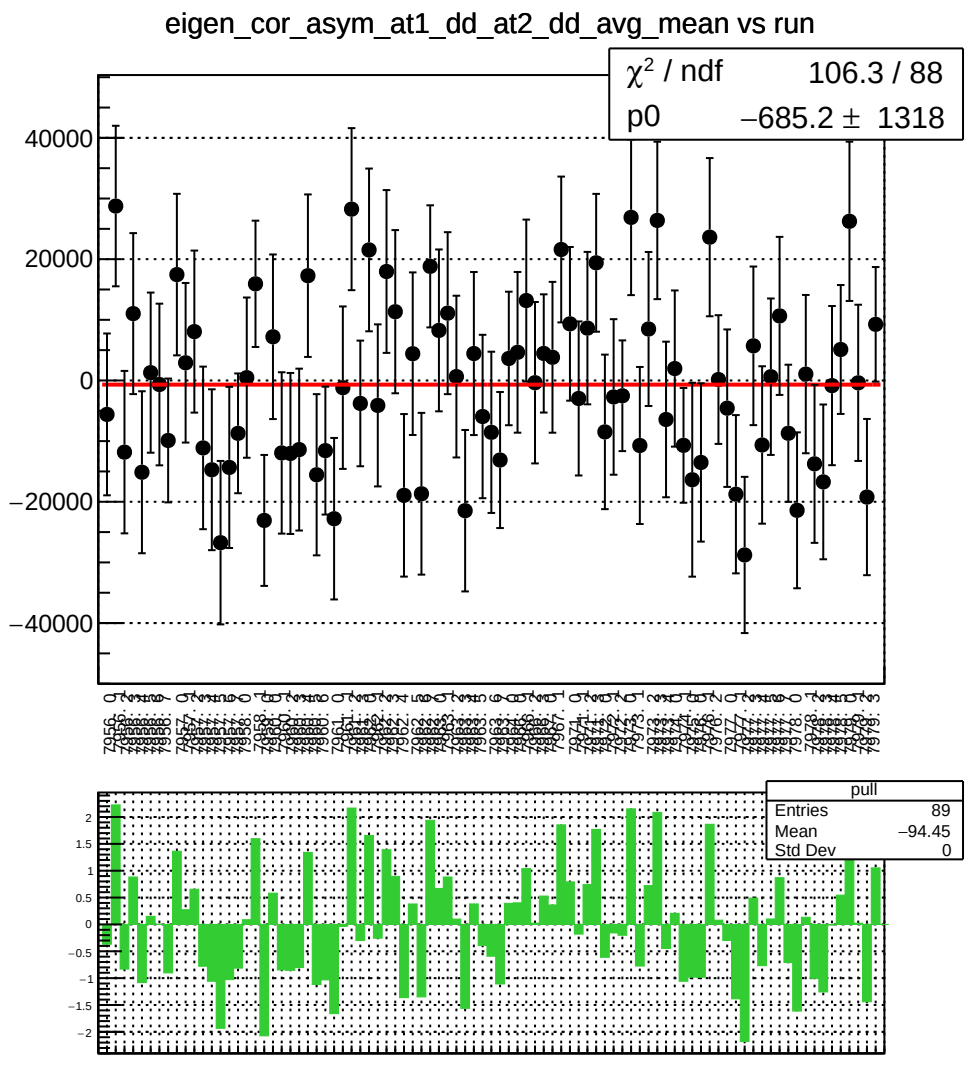

pull1D
Entries 89
Mean −0.003543
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

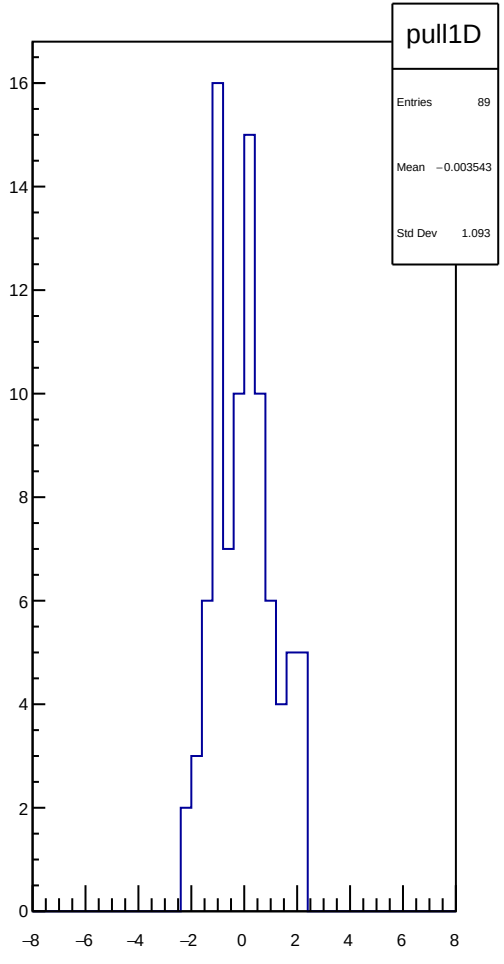

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 709.6 / 88
p0 1246 ± 0.9317
1300
1280
1260
1240
1220
1200
1180
1160

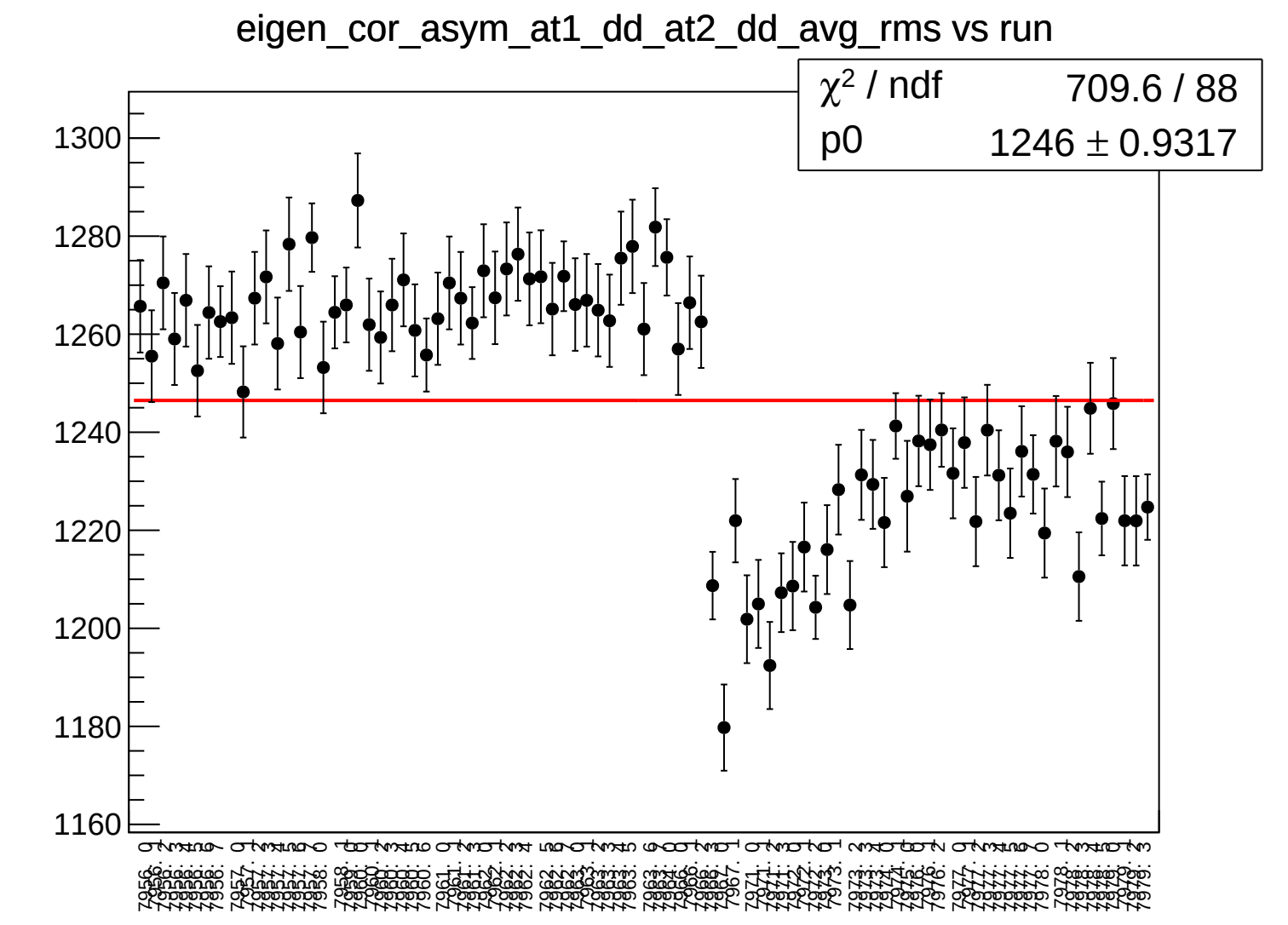

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 116.7 / 88
p0 −1108 ± 1596
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −479.5
Std Dev 0
2
1
0
−1
−2
−3
−4

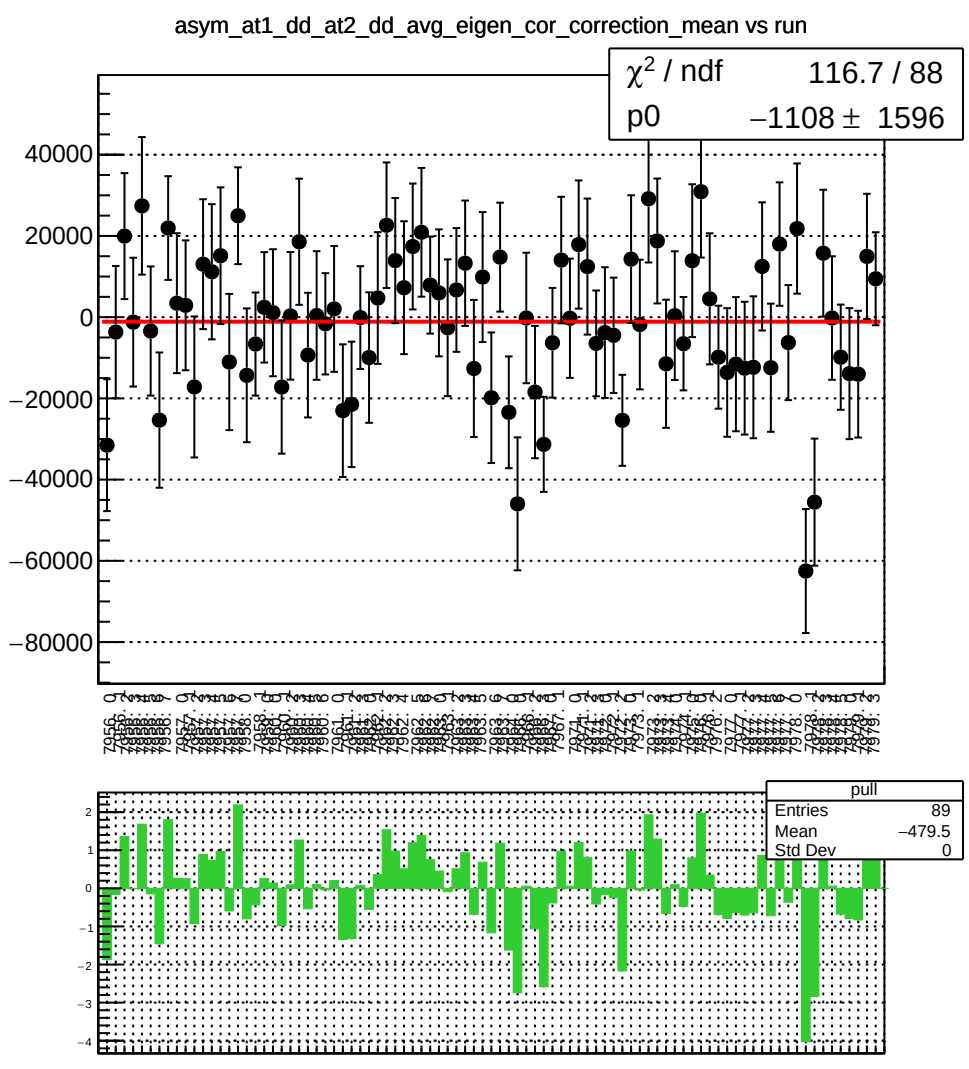

pull1D
Entries 89
Mean 0.006511
Std Dev 1.145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

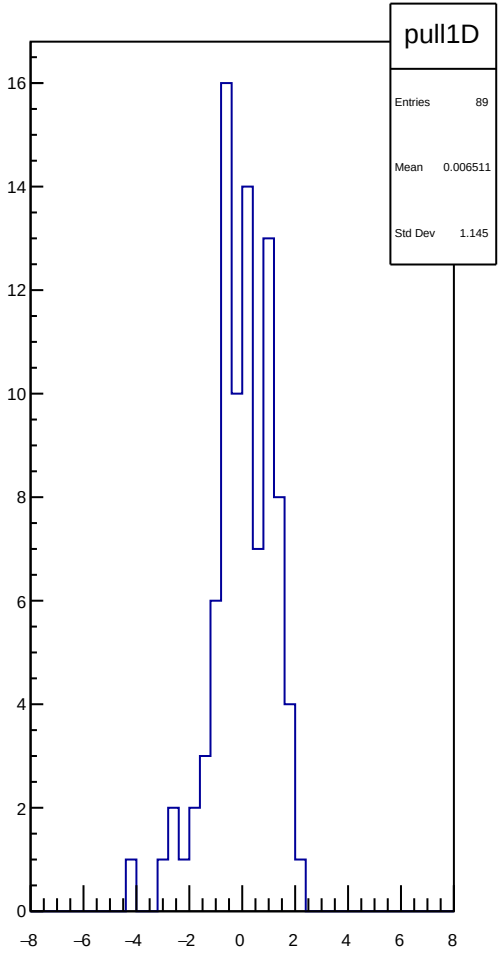

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 2893 / 88
p0 1509 ± 1.128
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250

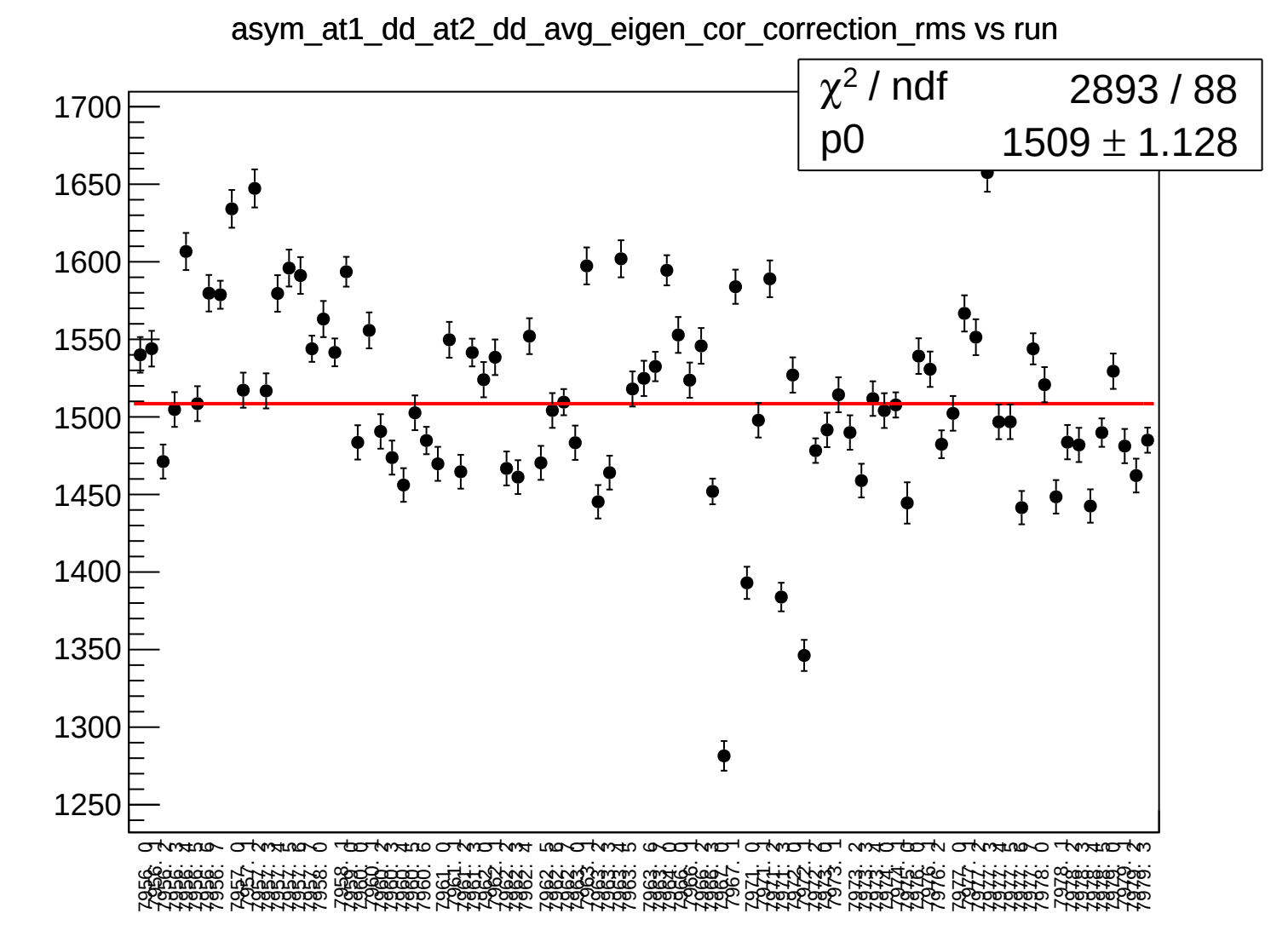

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 106.3 / 88
p0 −685.2 ± 1318
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −94.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

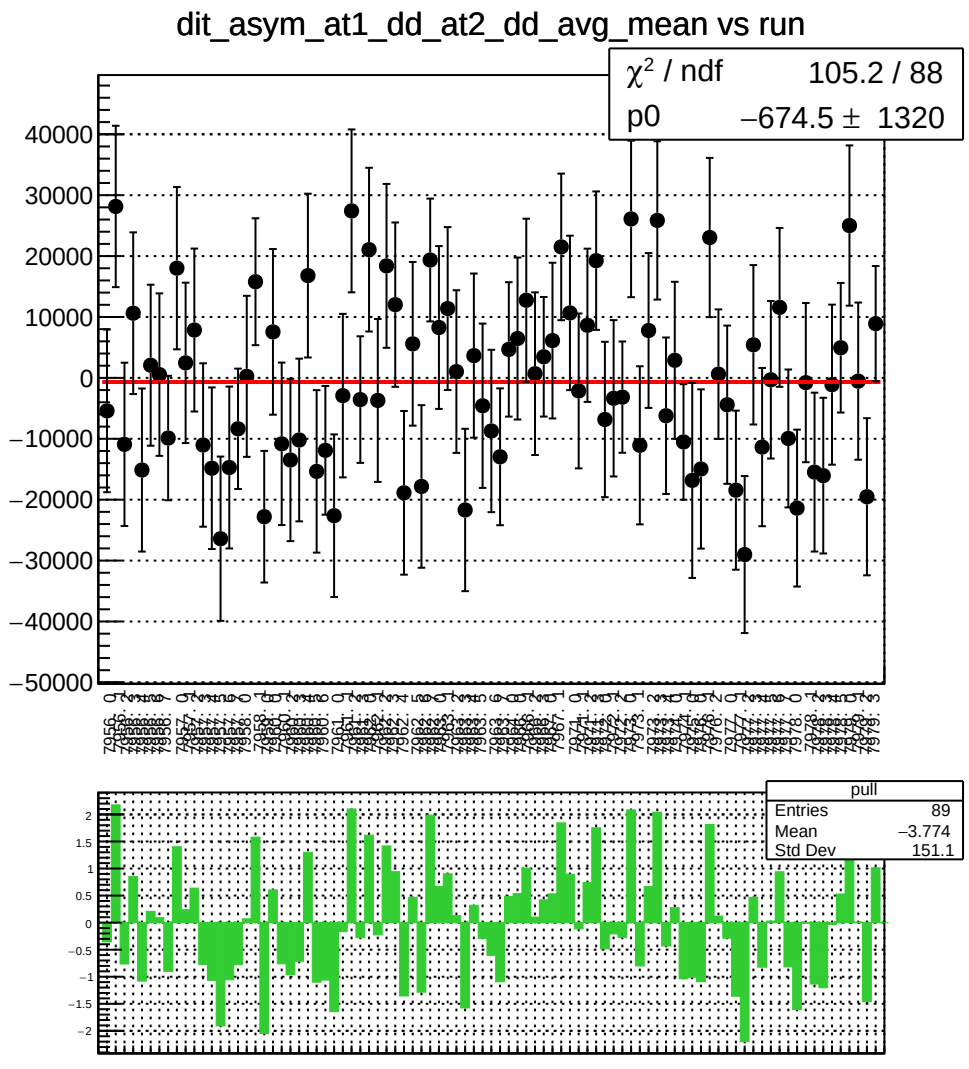

pull1D
Entries 89
Mean −0.003543
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

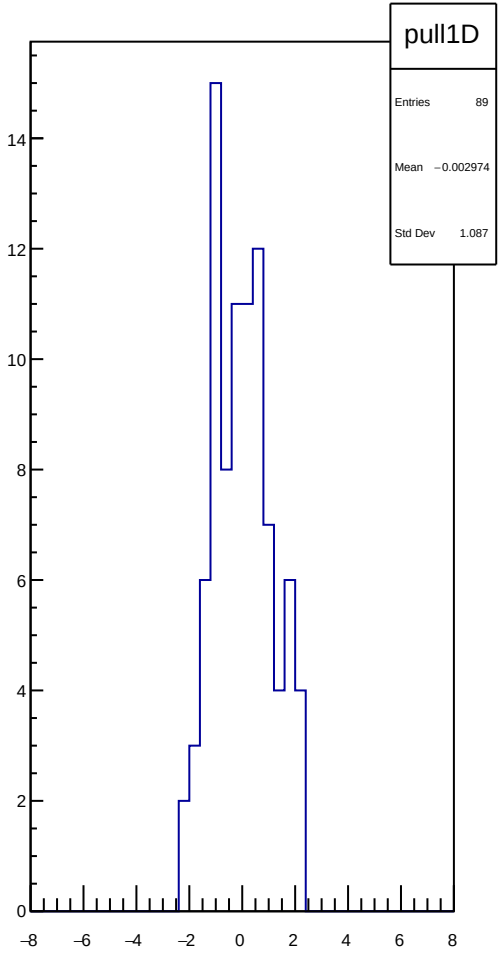

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 709.6 / 88
p0 1246 ± 0.9317
1300
1280
1260
1240
1220
1200
1180
1160

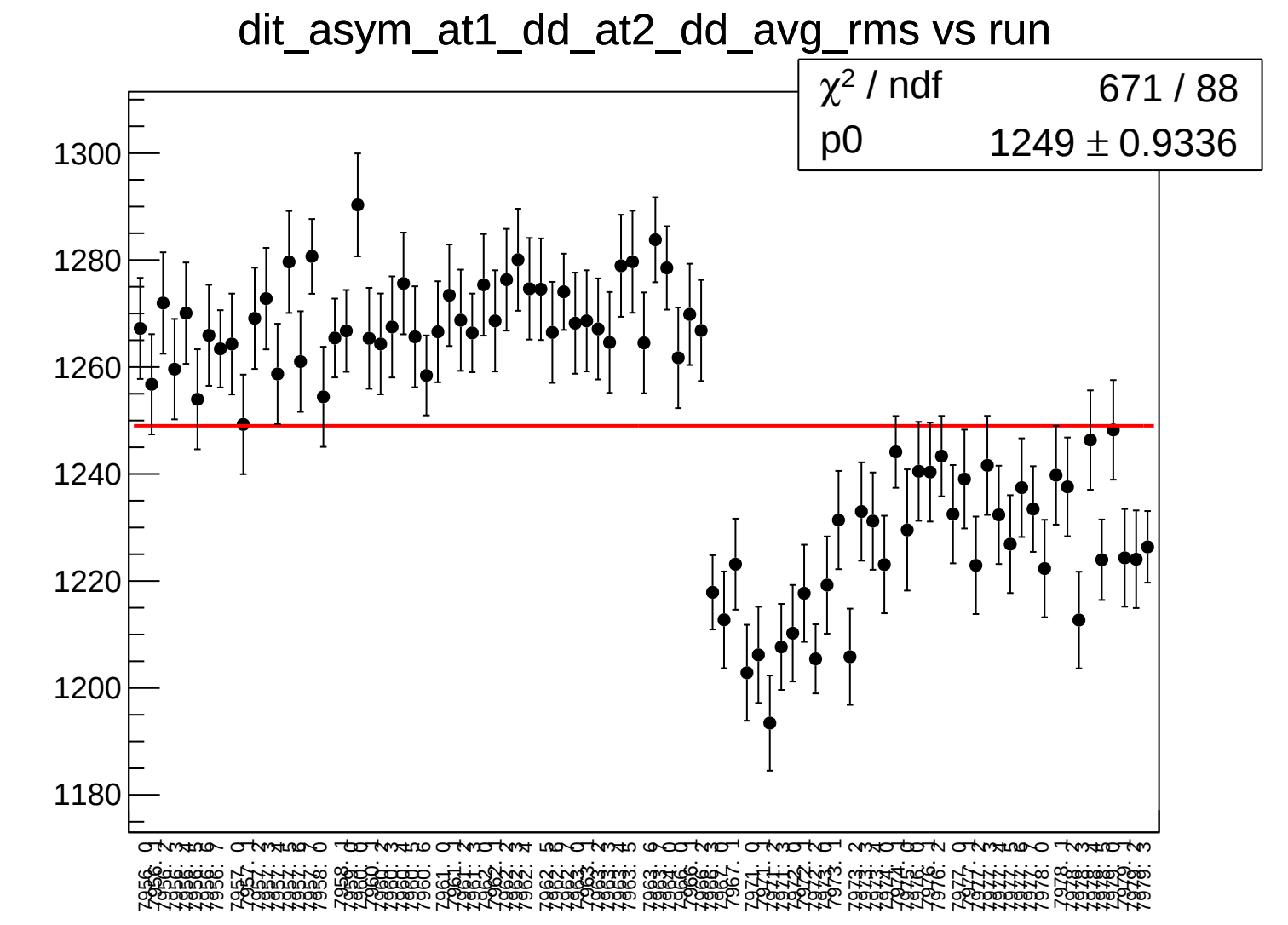

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 116.7 / 88
p0 −1108 ± 1596
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −479.5
Std Dev 0
2
1
0
−1
−2
−3
−4

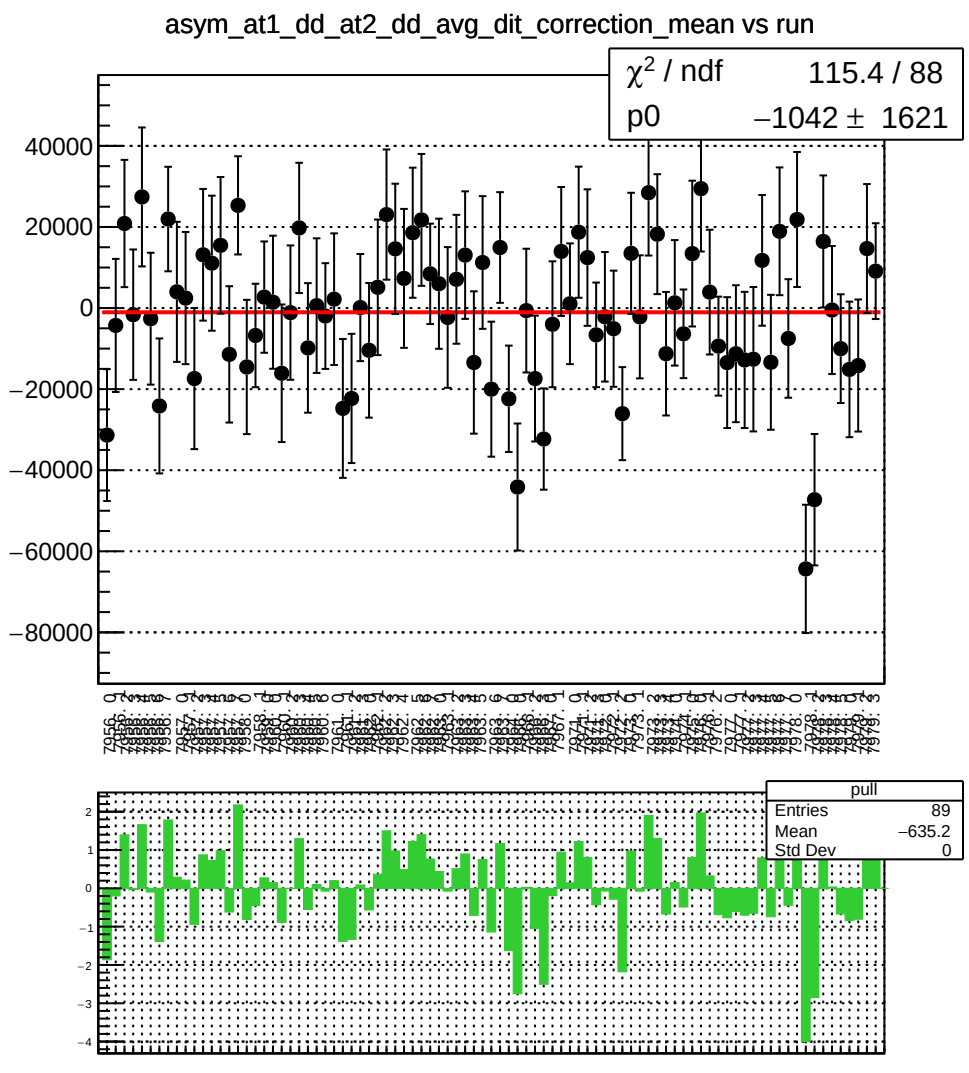

pull1D
Entries 89
Mean 0.006511
Std Dev 1.145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

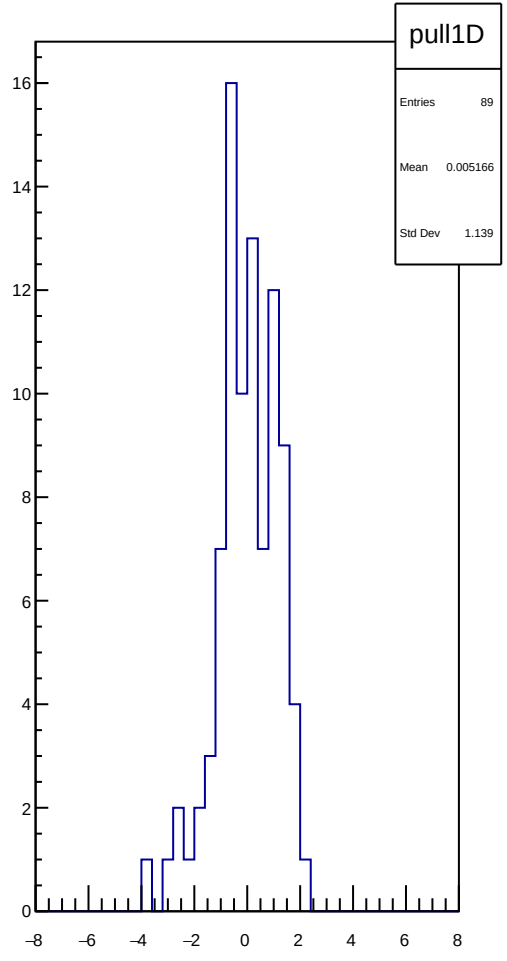

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2893 / 88
p0 1509 ± 1.128
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250

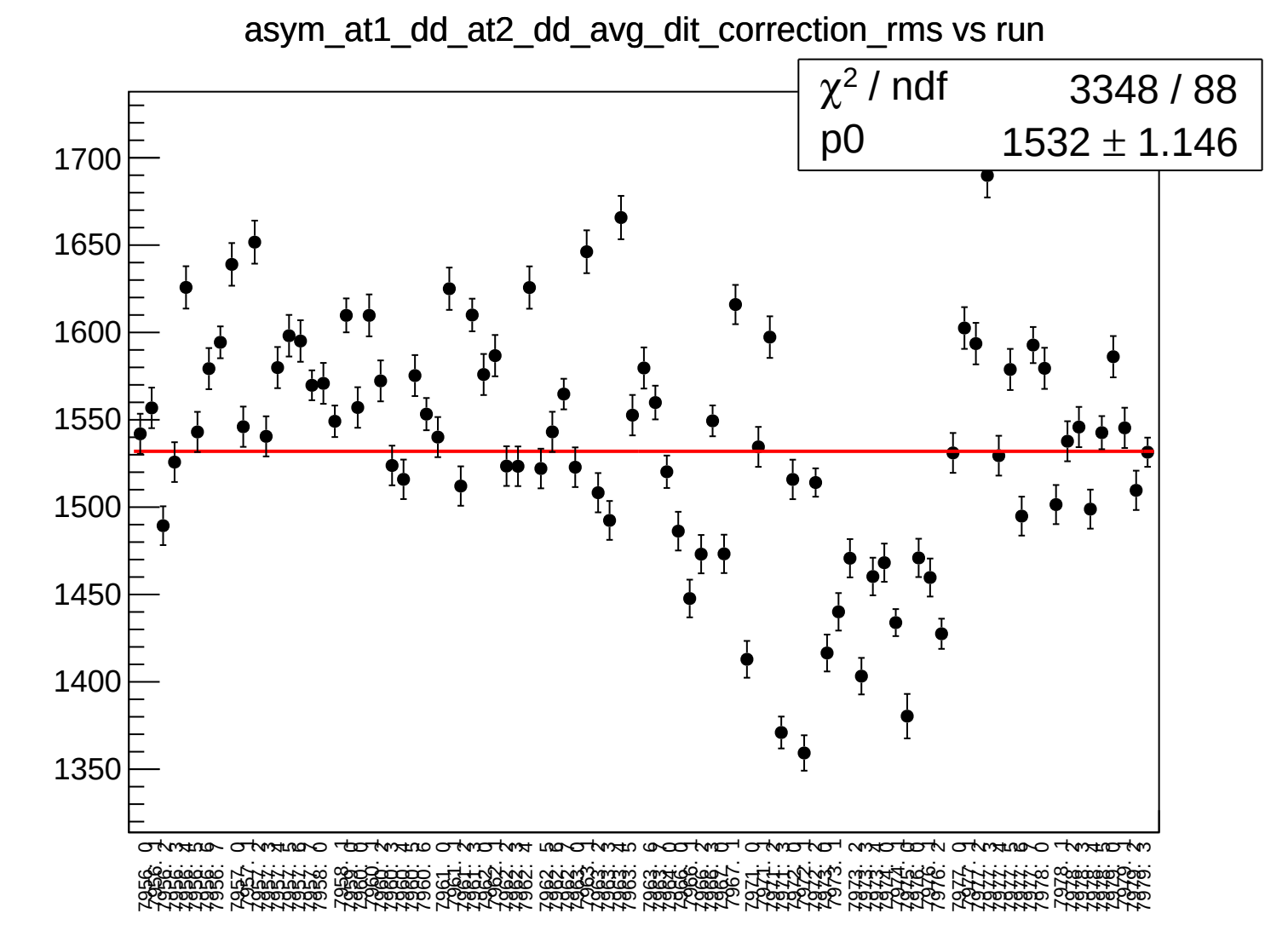

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 105.2 / 88
p0 −674.5 ± 1320
pull
Entries 89
Mean −3.774
Std Dev 151.1

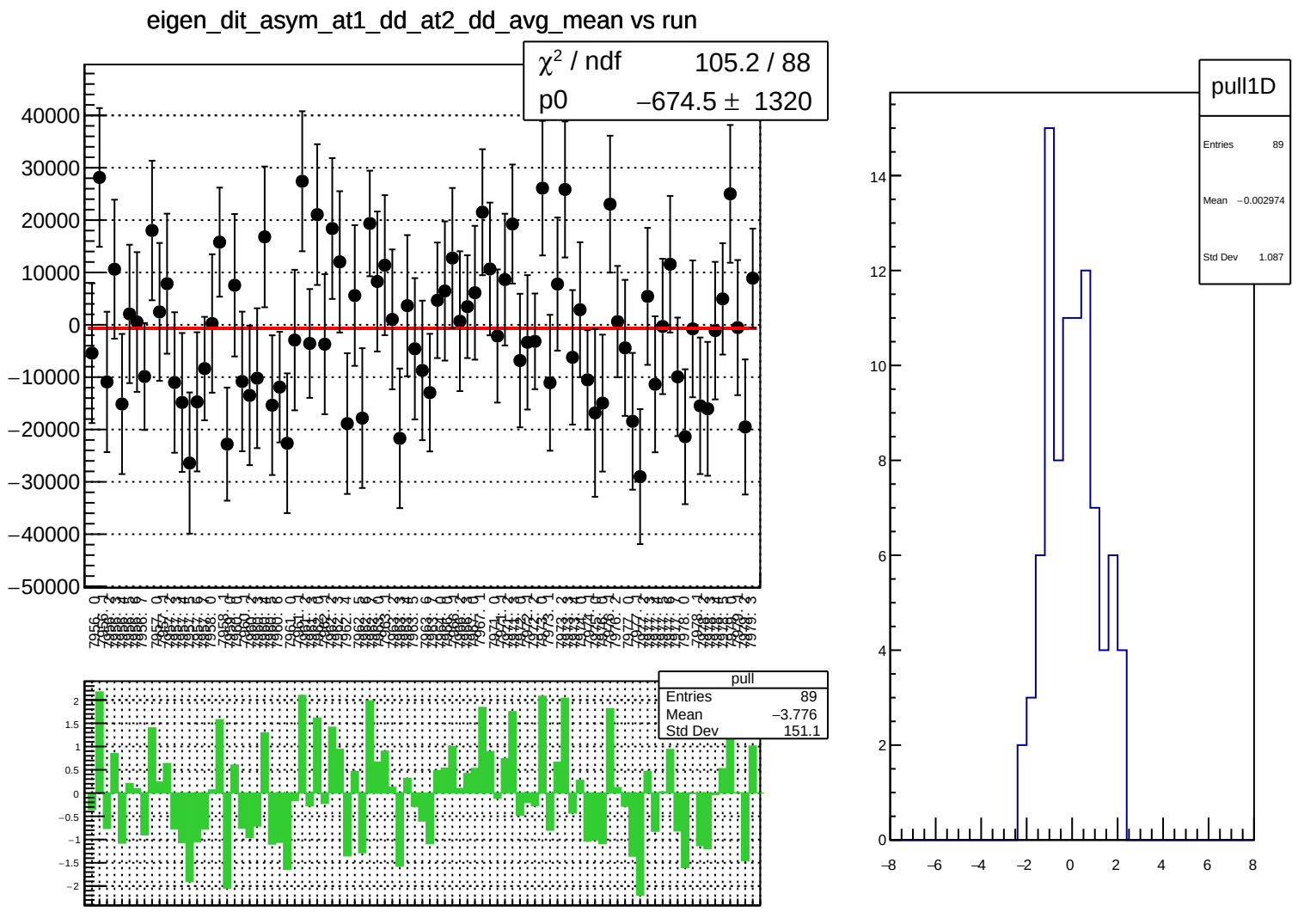

pull1D
Entries 89
Mean −0.002974
Std Dev 1.087

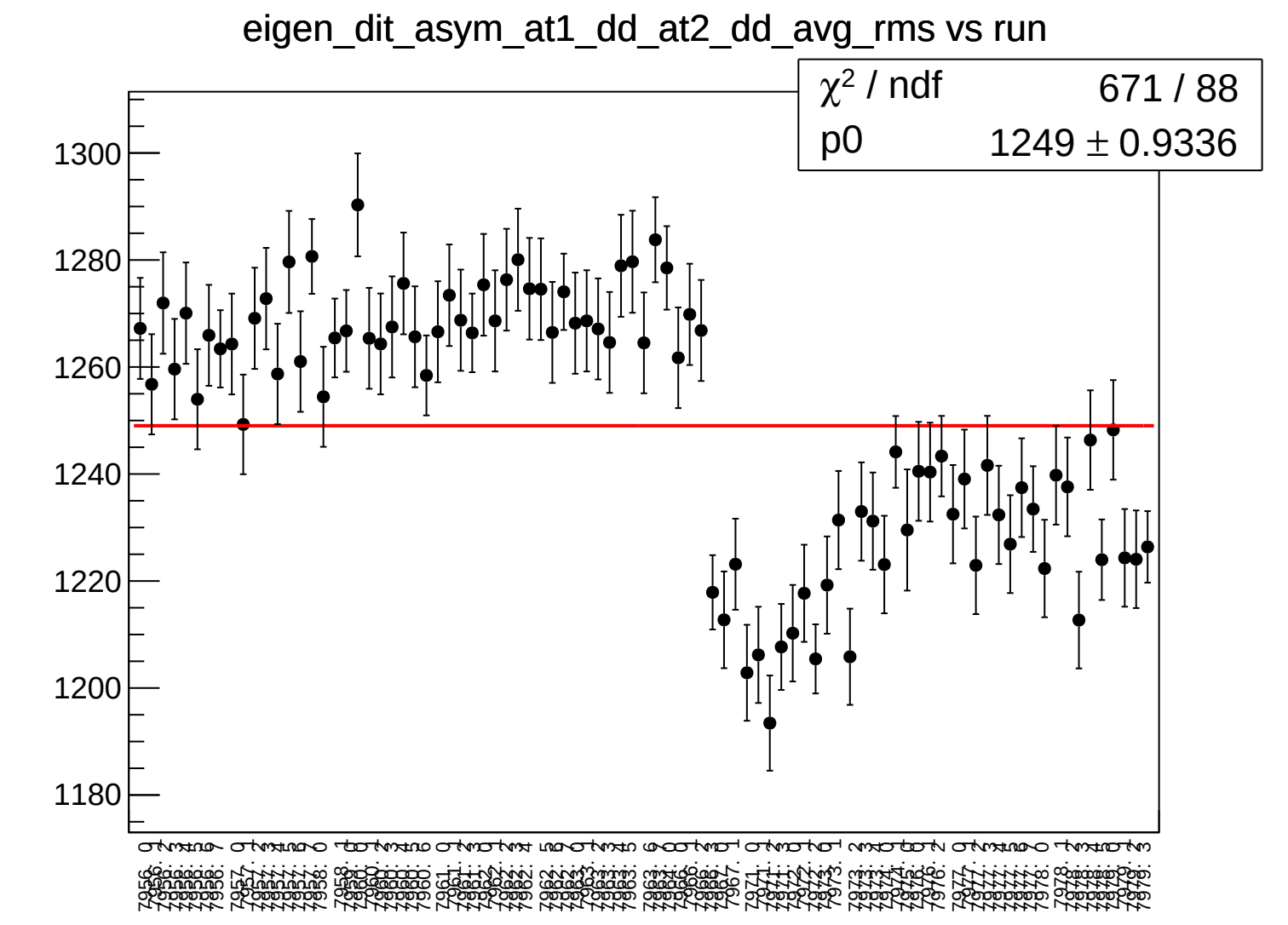

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 671 / 88
p0 1249 ± 0.9336
1300
1280
1260
1240
1220
1200
1180

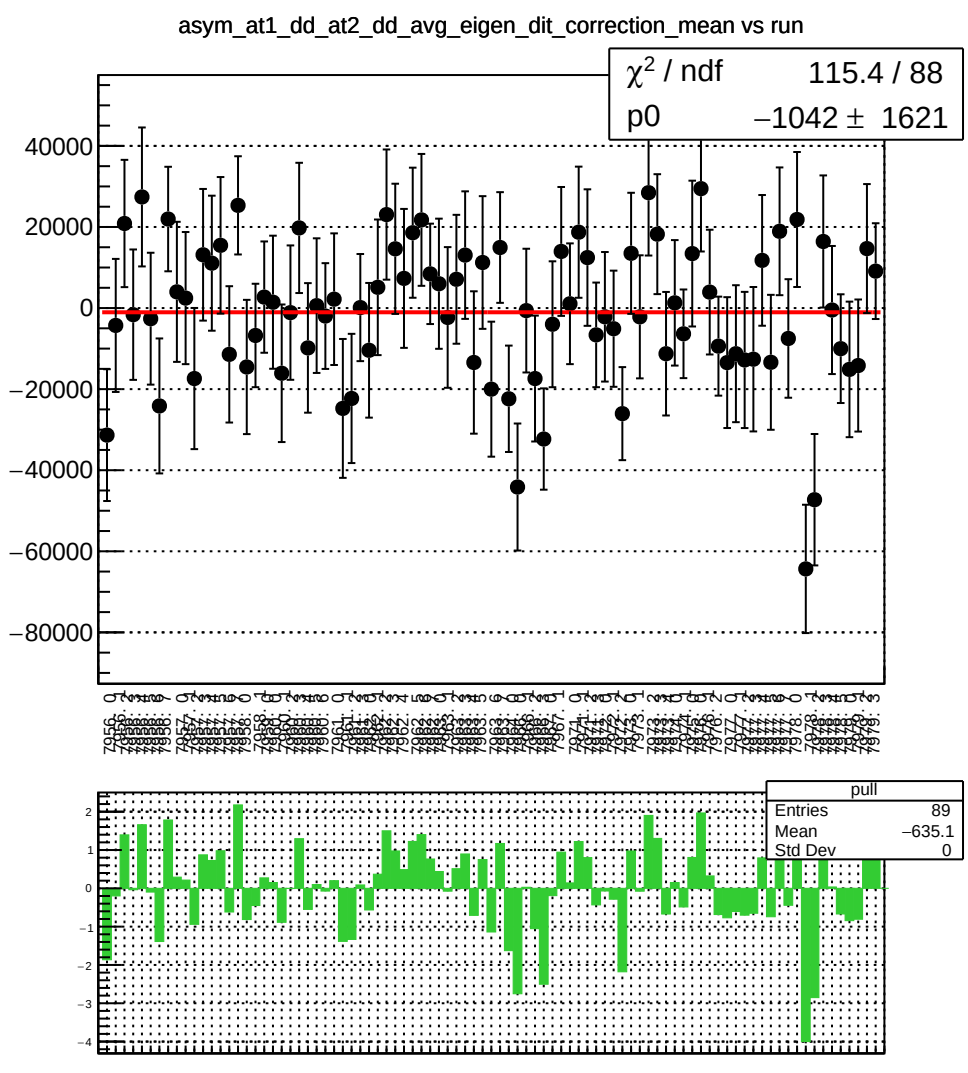

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 115.4 / 88
p0 −1042 ± 1621
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −635.2
Std Dev 0
2
1
0
−1
−2
−3
−4

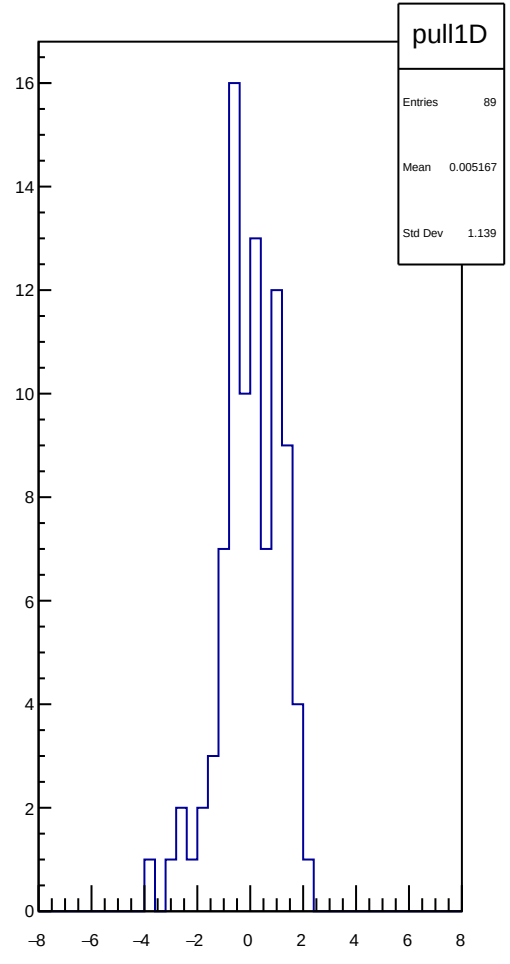

pull1D
Entries 89
Mean 0.005166
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

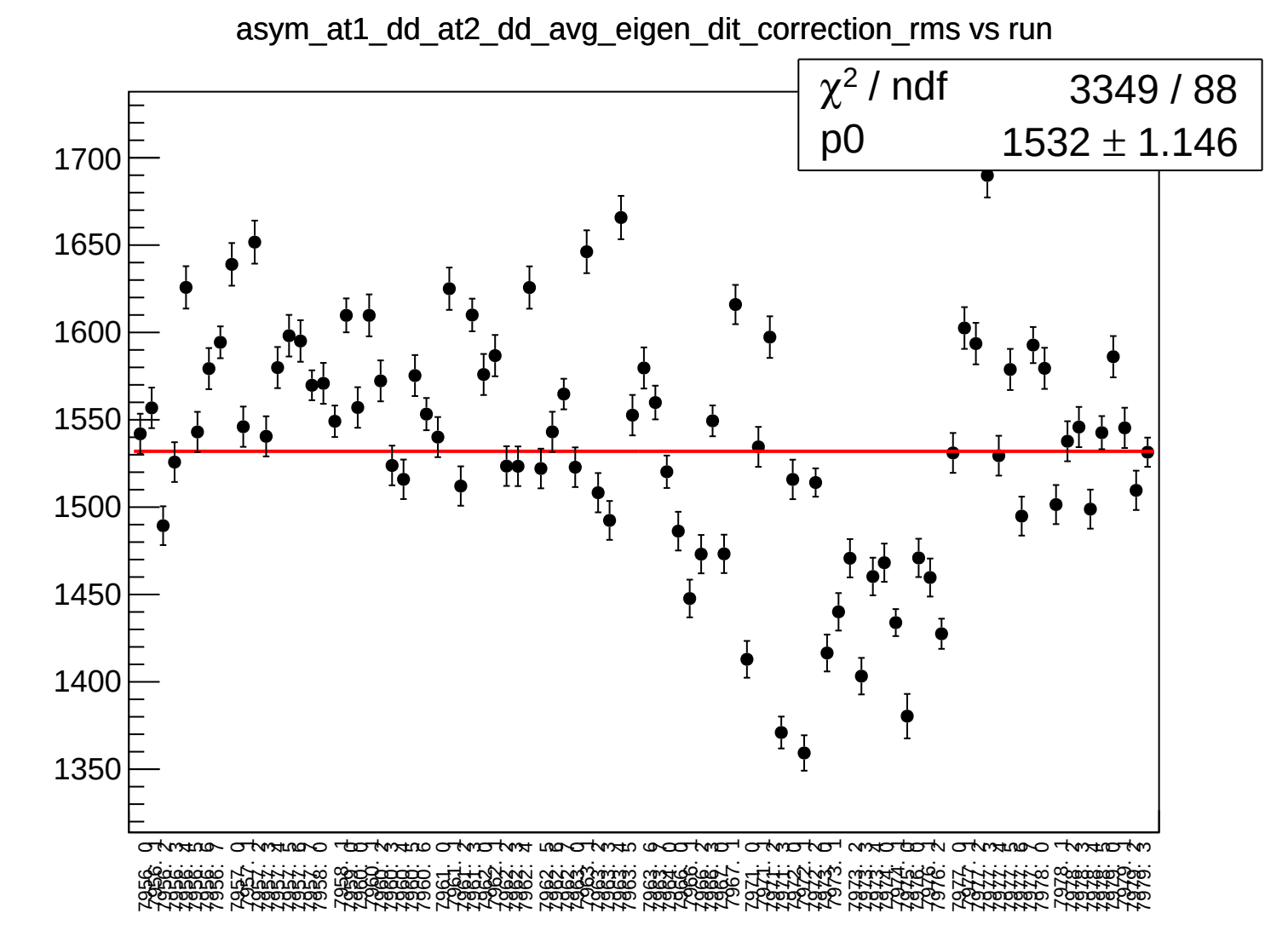

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 3348 / 88
p0 1532 ± 1.146
1700
1650
1600
1550
1500
1450
1400
1350

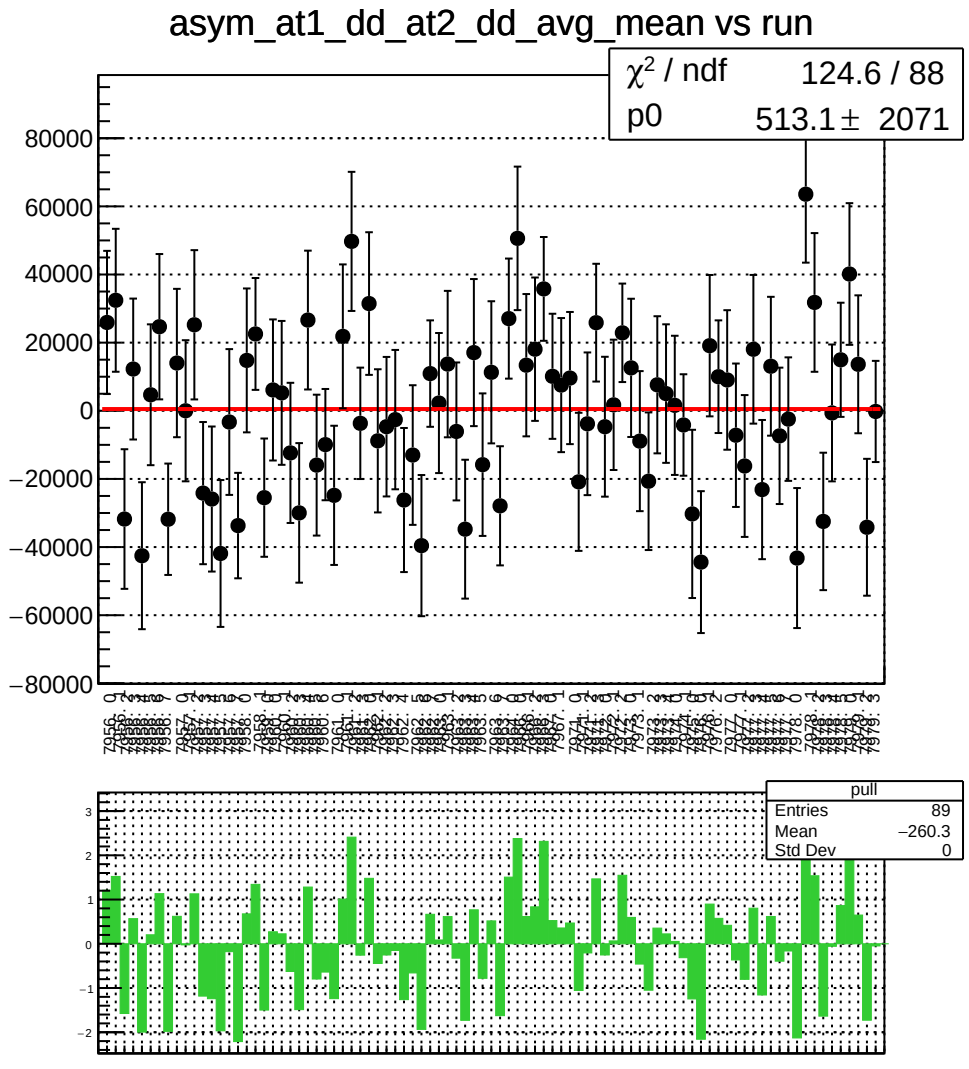

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 105.2 / 88
p0 −674.5 ± 1320
pull
Entries 89
Mean −3.776
Std Dev 151.1
pull1D
Entries 89
Mean −0.002974
Std Dev 1.087

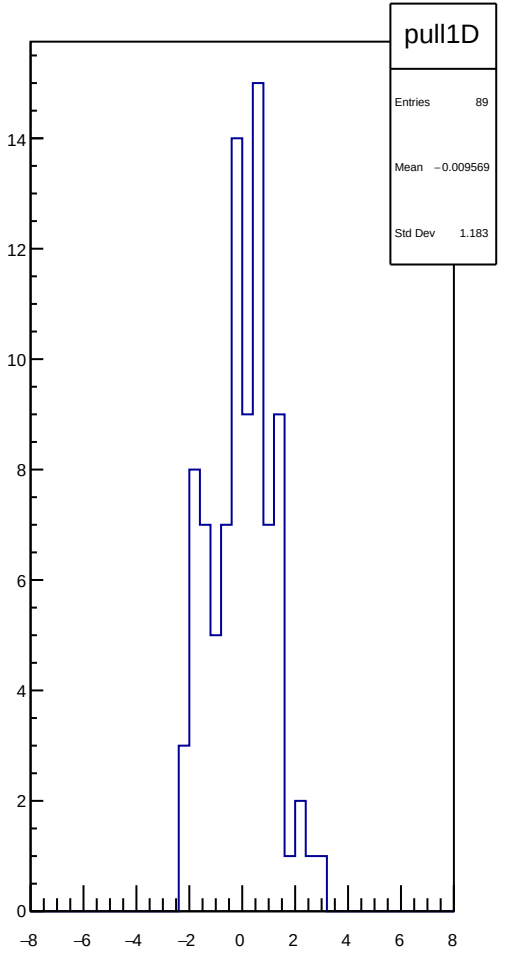

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 671 / 88
p0 1249 ± 0.9336
1300
1280
1260
1240
1220
1200
1180

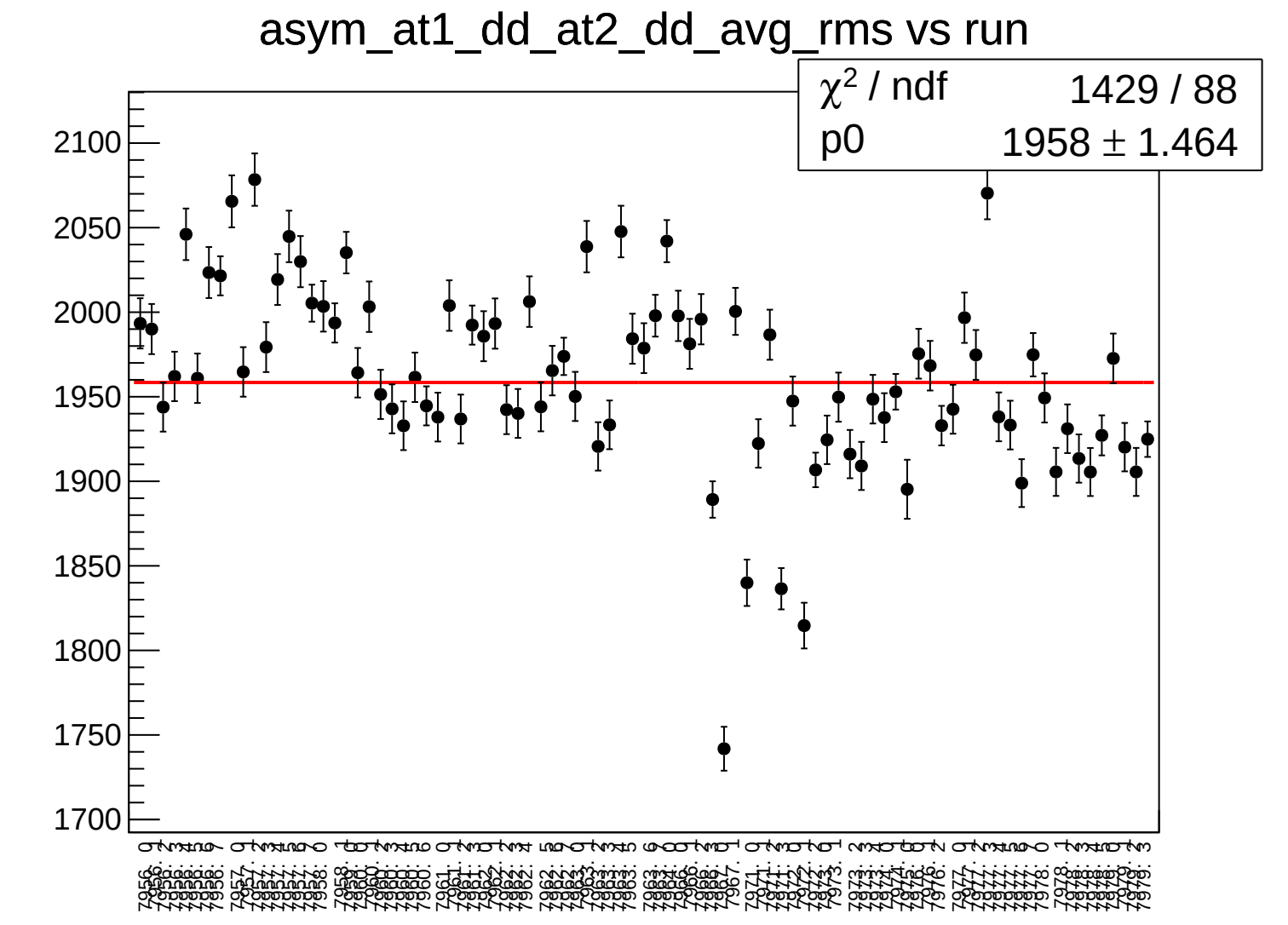

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 115.4 / 88
p0 −1042 ± 1621
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −635.1
Std Dev 0
2
1
0
−1
−2
−3
−4

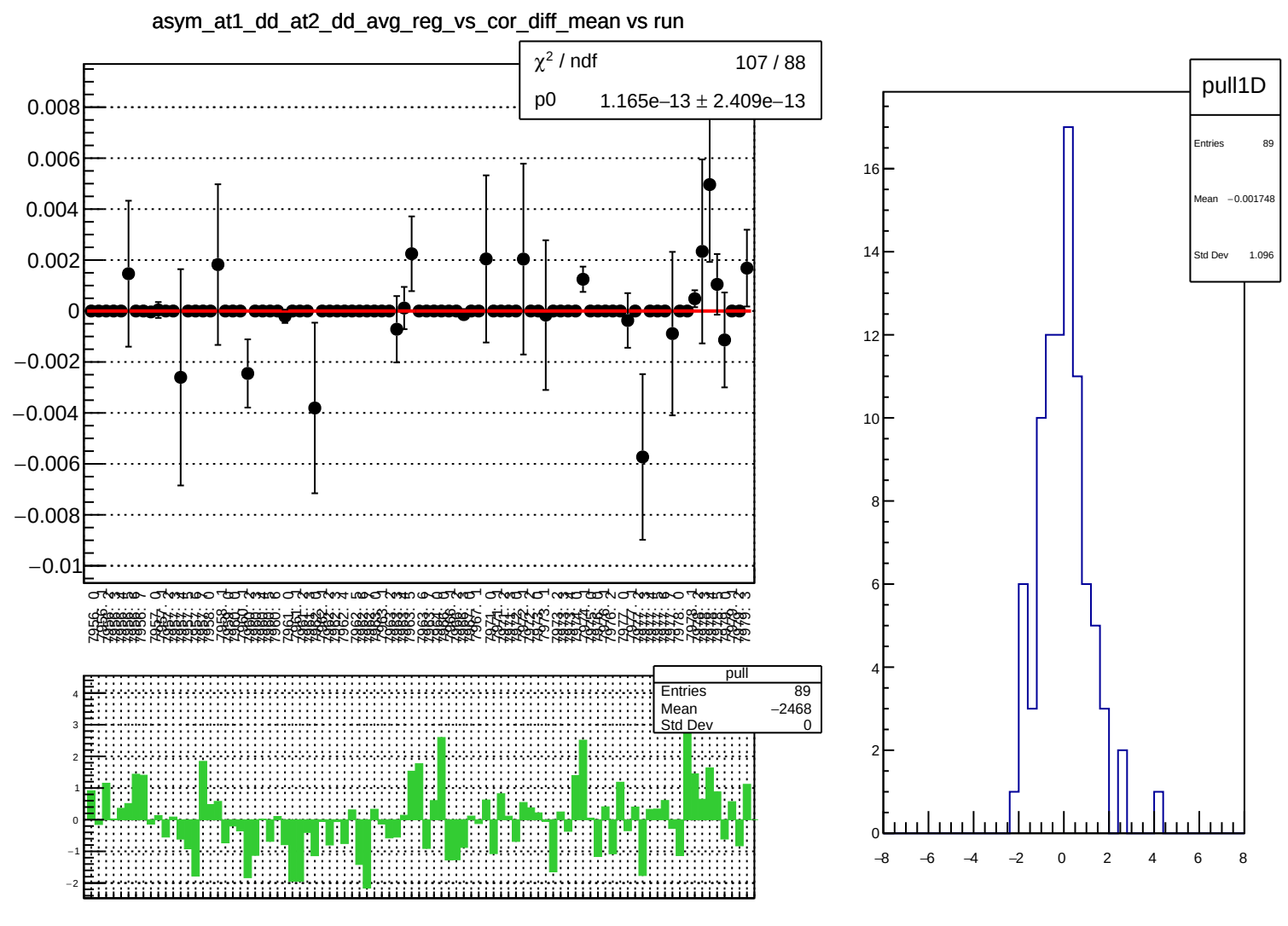

pull1D
Entries 89
Mean 0.005167
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

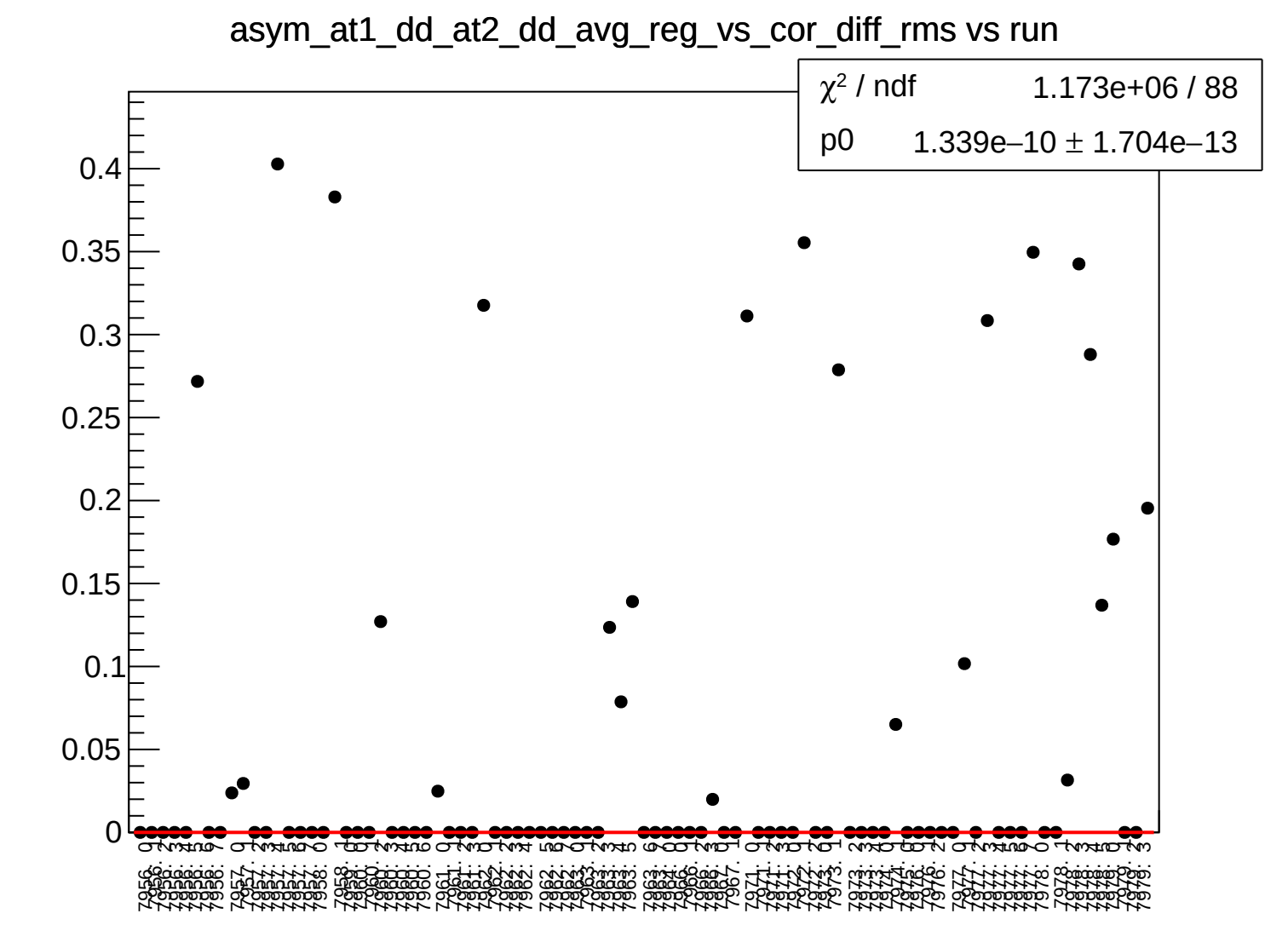

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3349 / 88
p0 1532 ± 1.146
1700
1650
1600
1550
1500
1450
1400
1350

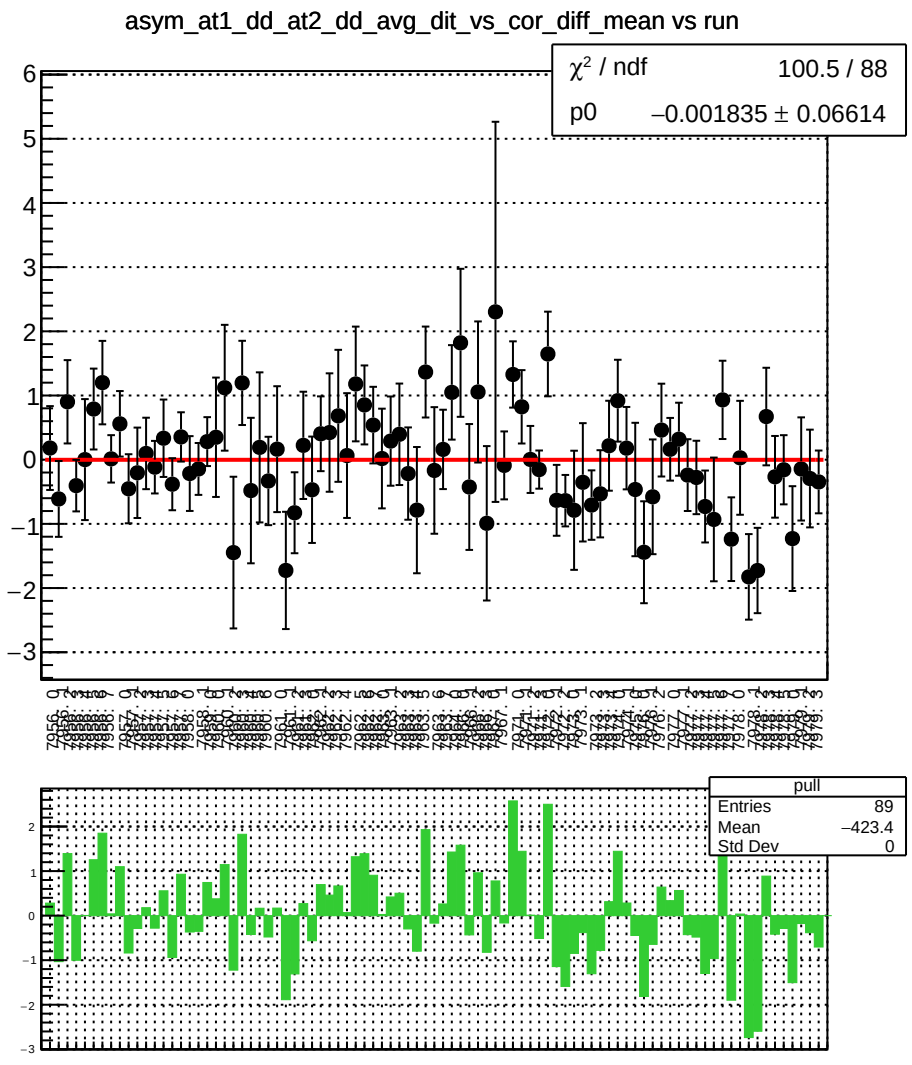

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 124.6 / 88
p0 513.1 ± 2071
pull
Entries 89
Mean −260.3
Std Dev 0

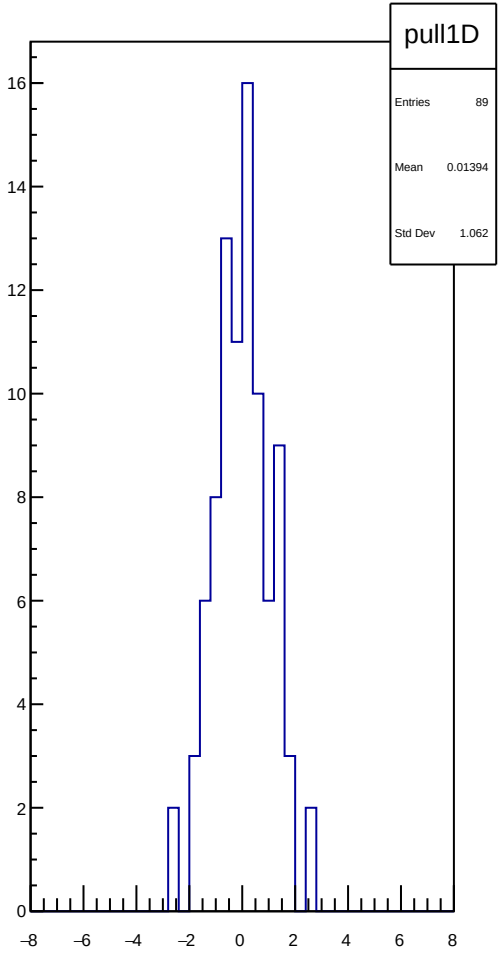

pull1D
Entries 89
Mean −0.009569
Std Dev 1.183

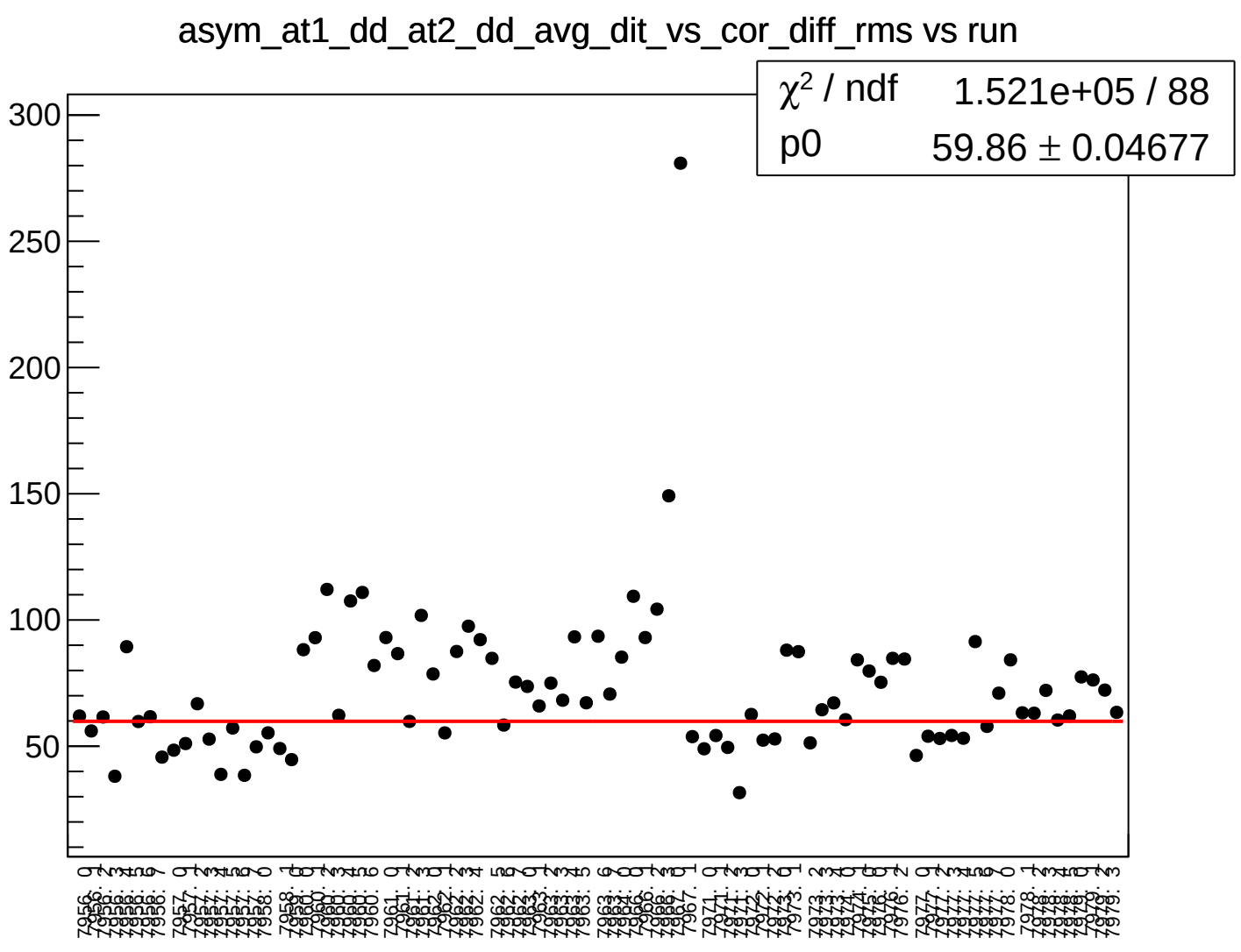

asym_at1_dd_at2_dd_avg_rms vs run
$\chi^2$ / ndf 1429 / 88
p0 1958 ± 1.464
2100
2050
2000
1950
1900
1850
1800
1750
1700

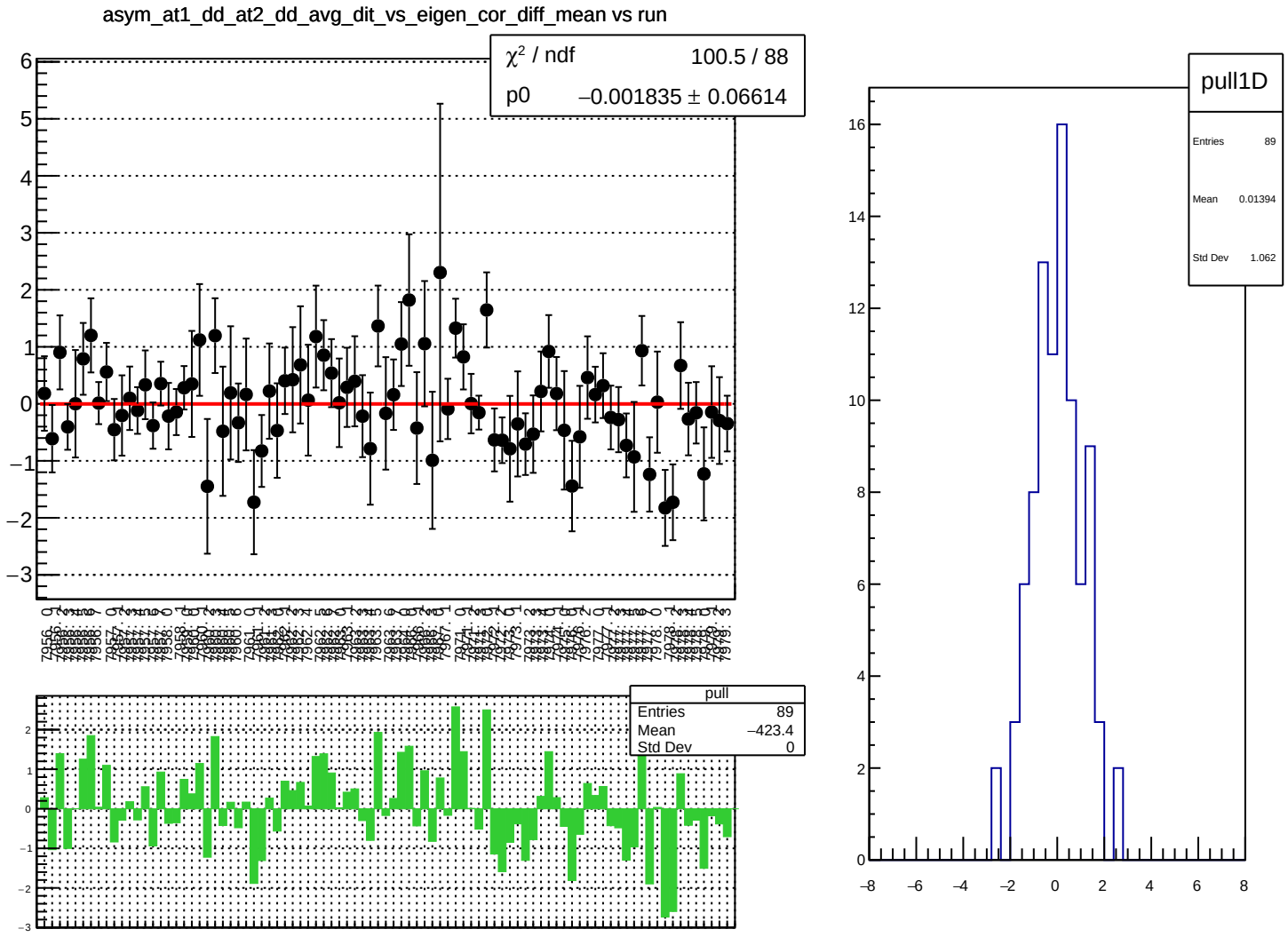

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 107 / 88
p0 1.165e−13 ± 2.409e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
pull
Entries 89
Mean −2468
Std Dev 0
pull1D
Entries 89
Mean −0.001748
Std Dev 1.096

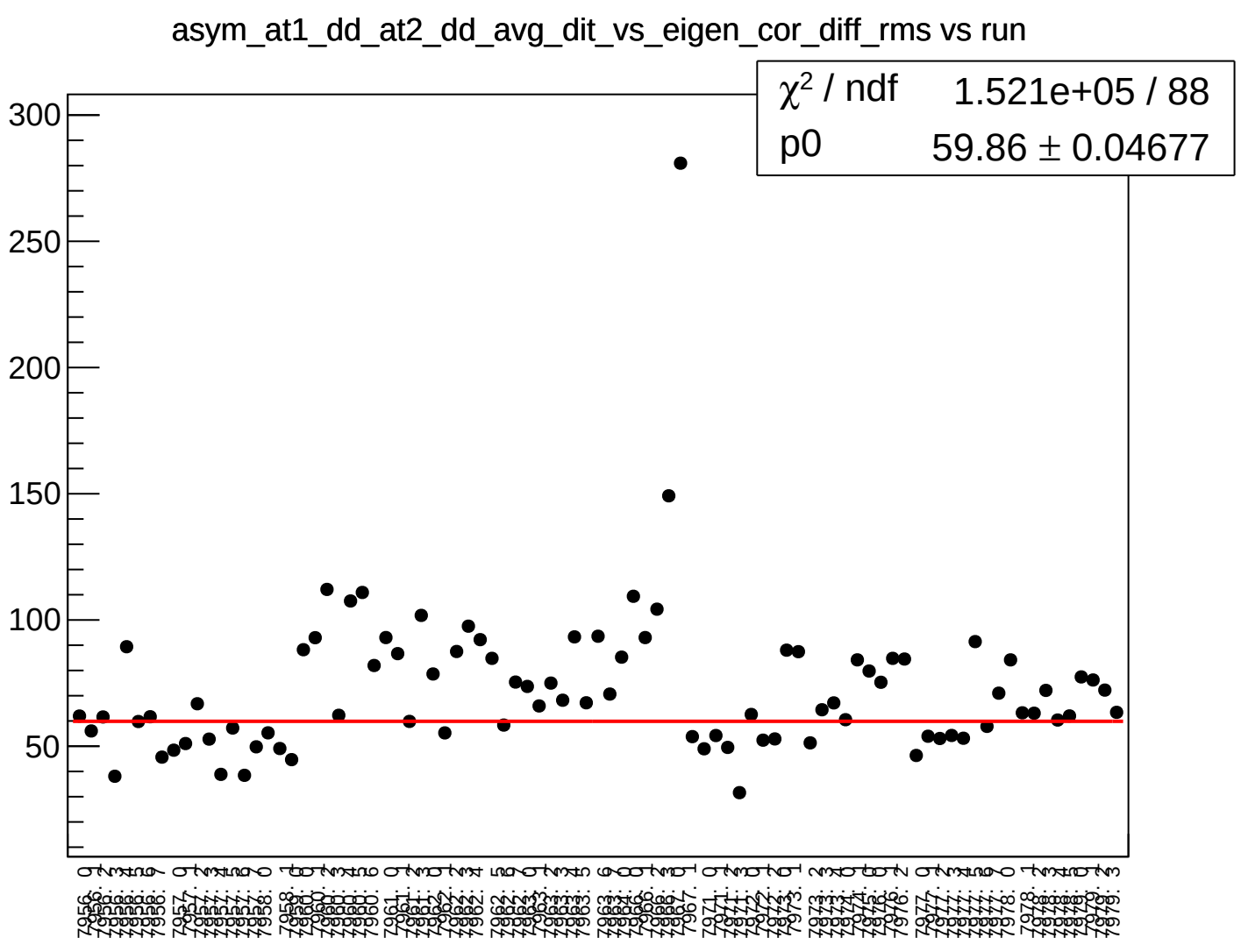

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.173e+06 / 88
p0 1.339e−10 ± 1.704e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

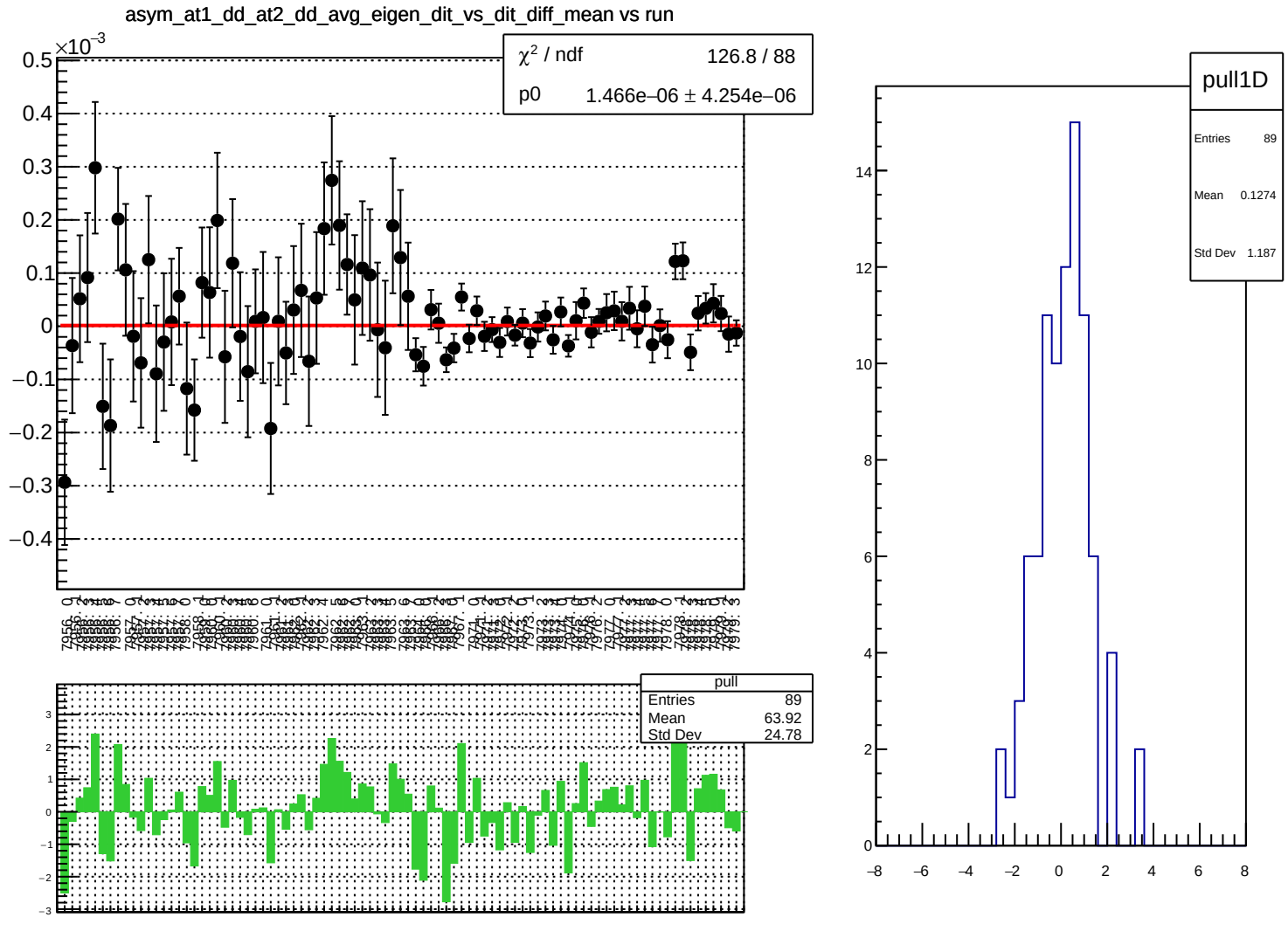

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 88
p0 −0.001835 ± 0.06614
pull
Entries 89
Mean −423.4
Std Dev 0

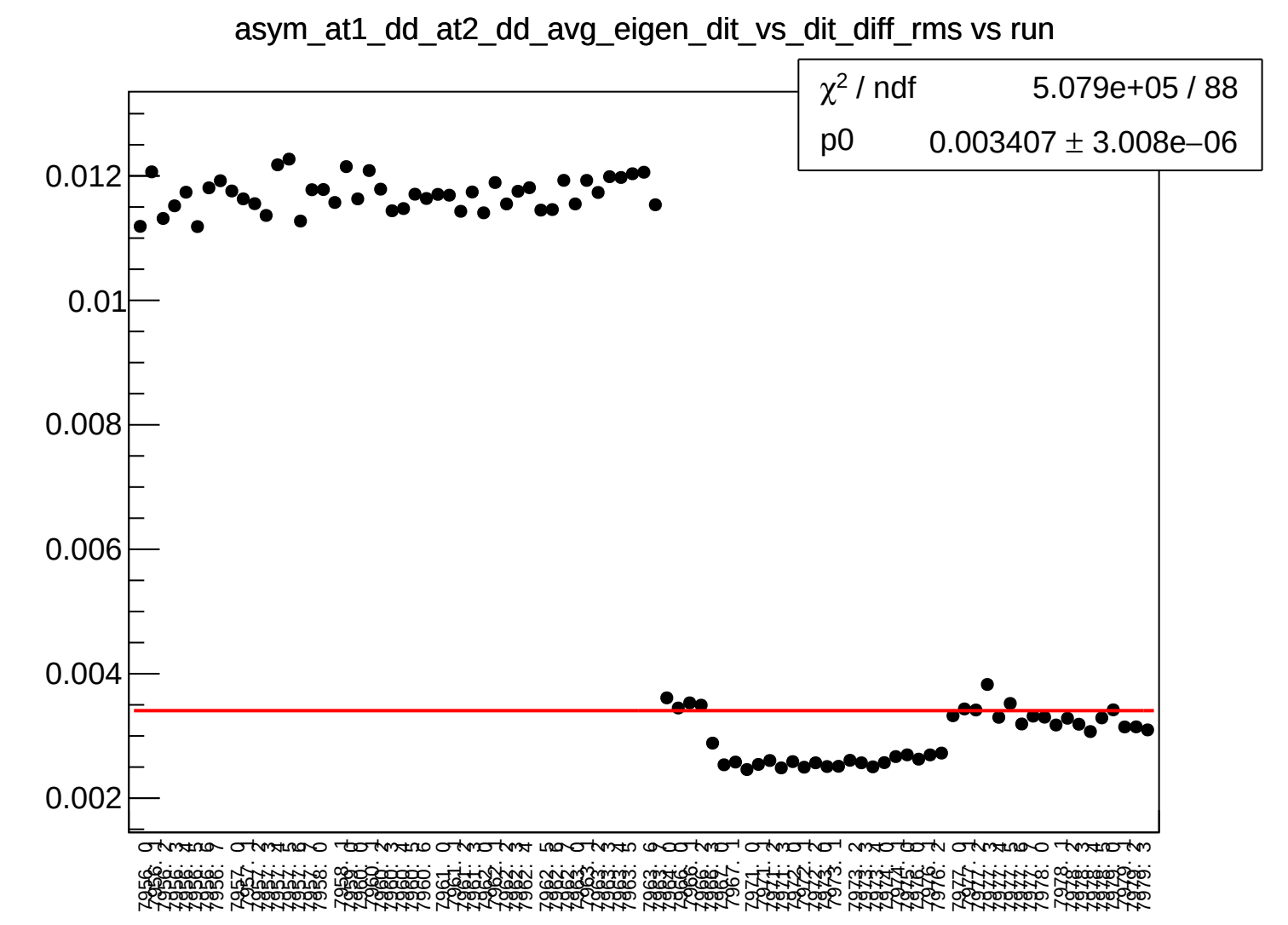

pull1D
Entries 89
Mean 0.01394
Std Dev 1.062

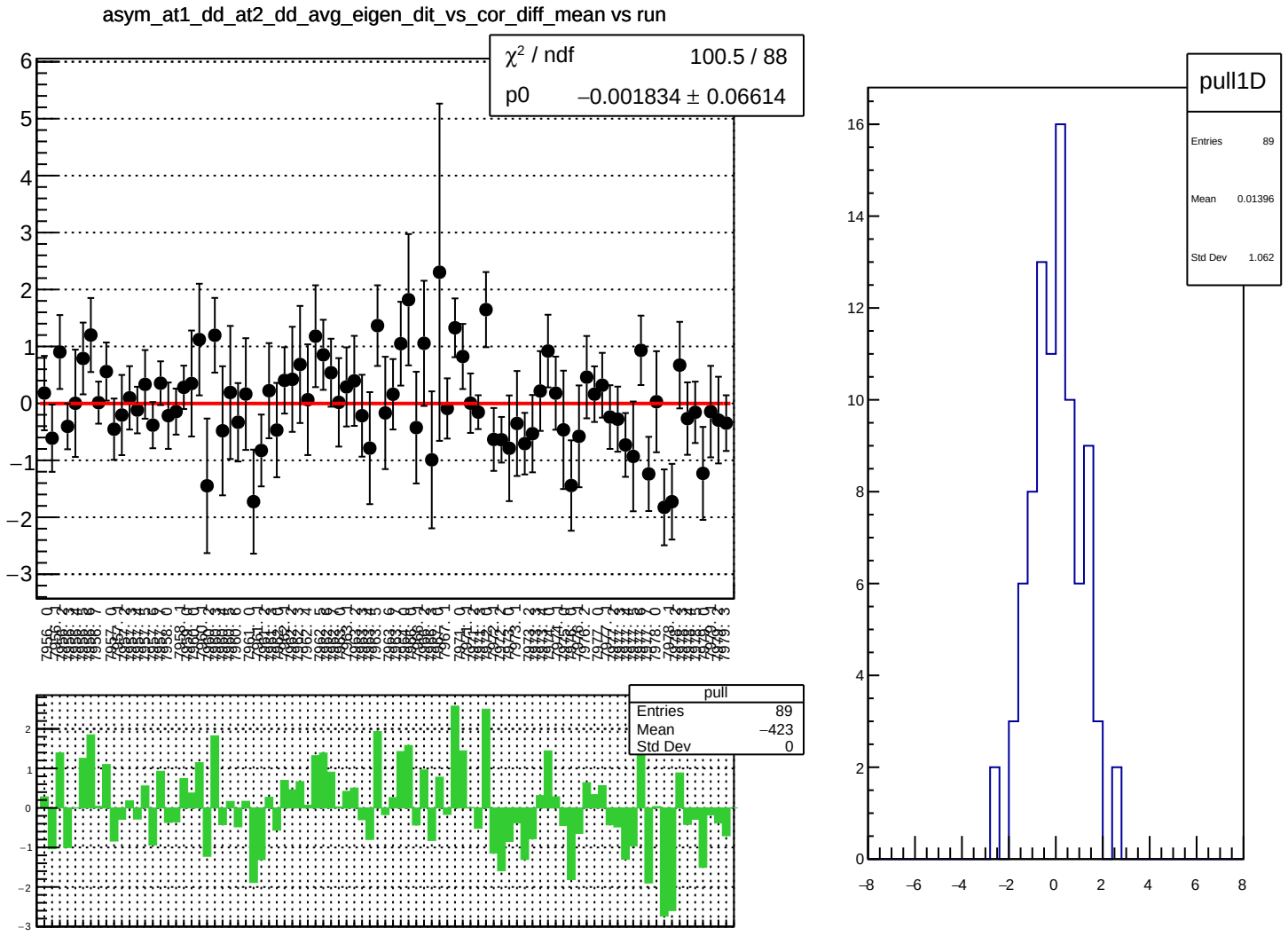

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 88
p0 59.86 ± 0.04677
300
250
200
150
100
50

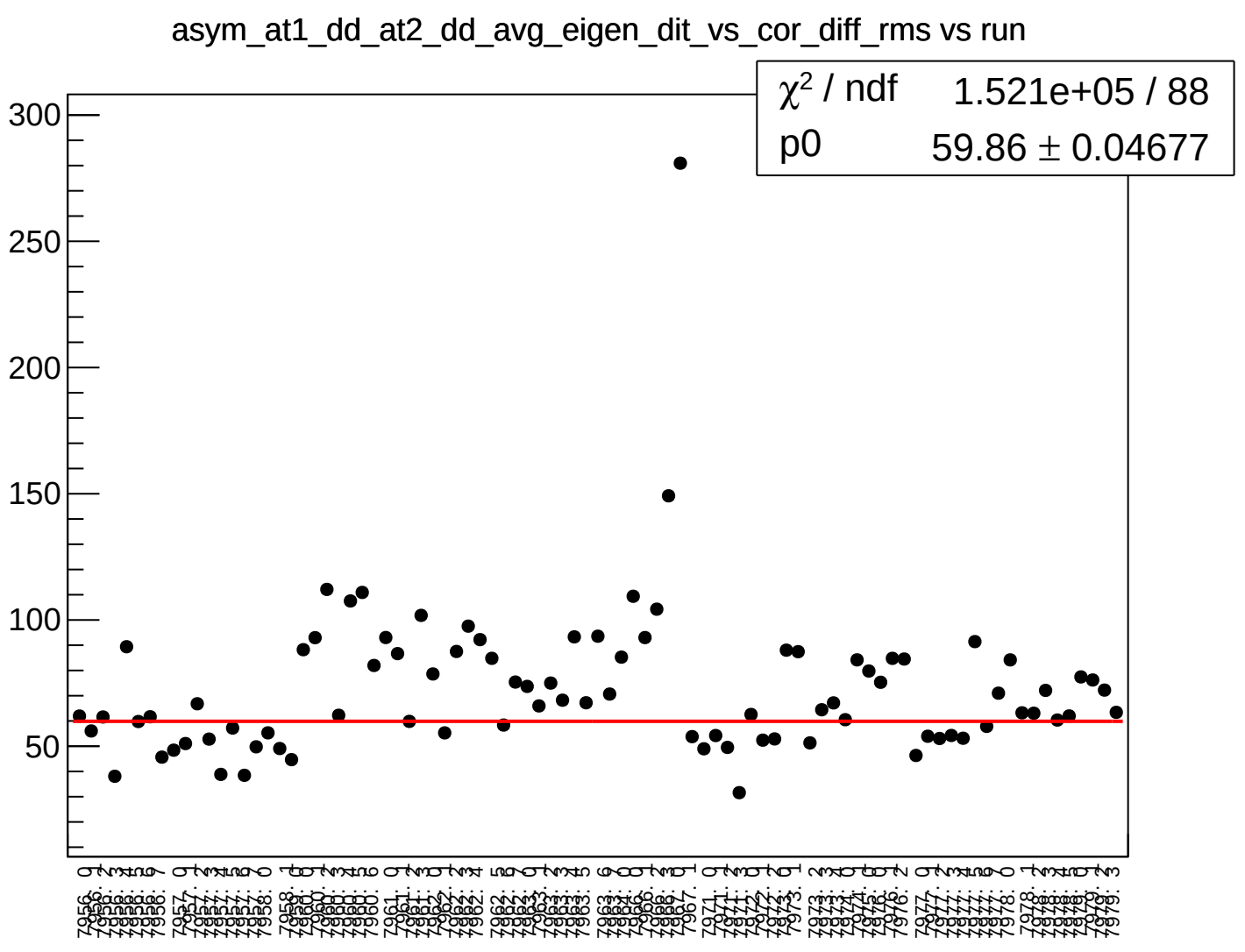

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 88
p0 −0.001835 ± 0.06614
pull
Entries 89
Mean −423.4
Std Dev 0
pull1D
Entries 89
Mean 0.01394
Std Dev 1.062

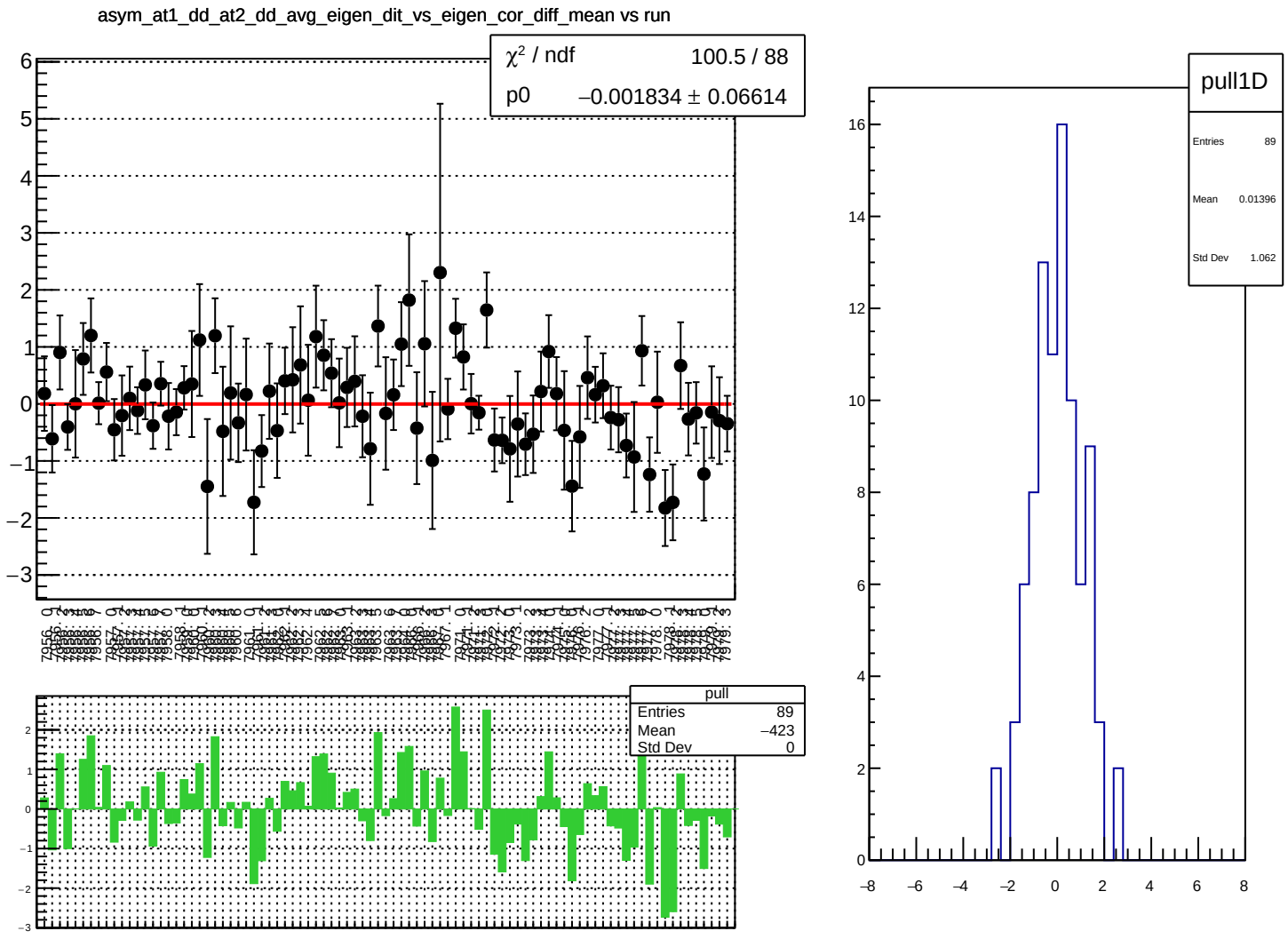

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 88
p0 59.86 ± 0.04677
300
250
200
150
100
50

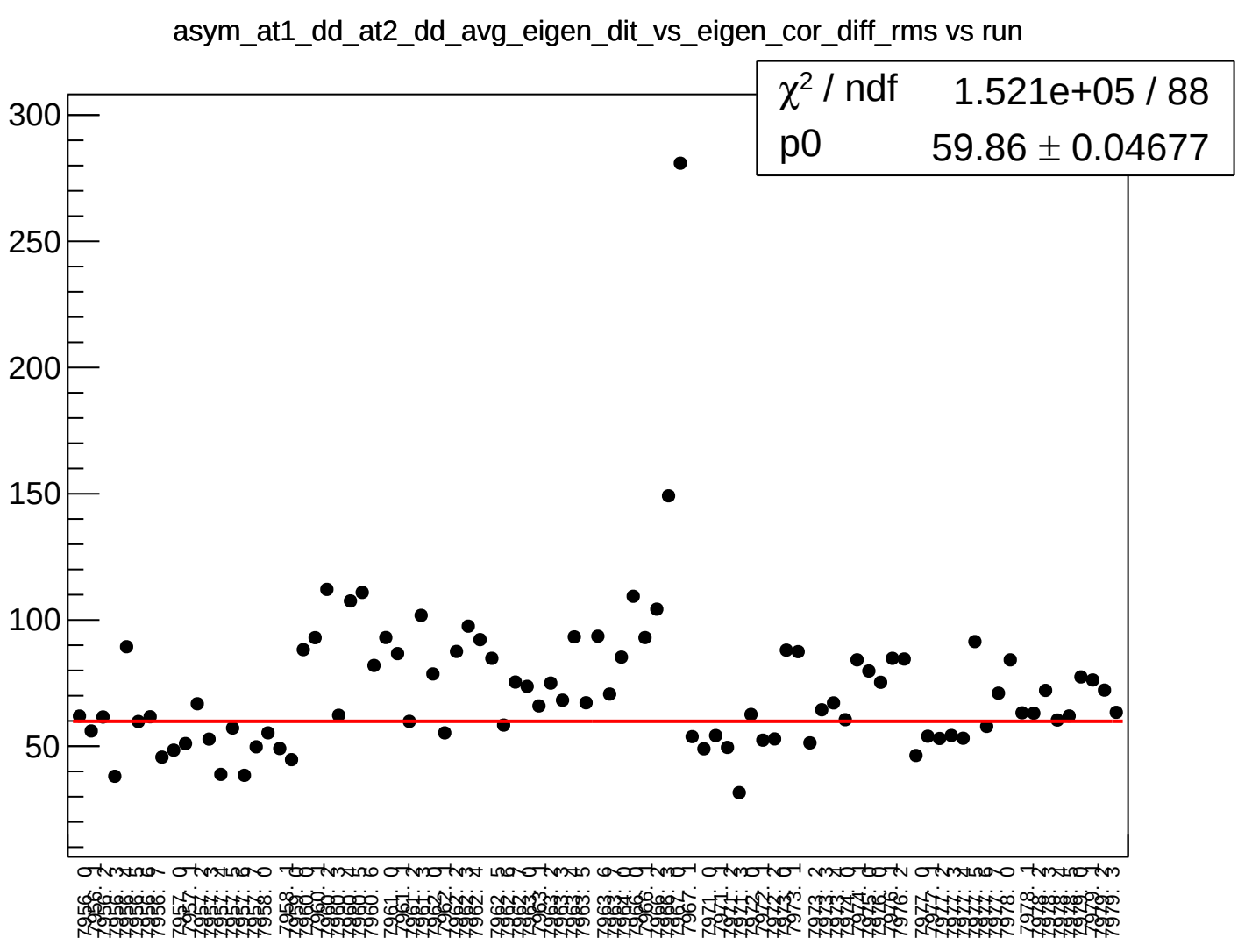

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 126.8 / 88
p0 1.466e−06 ± 4.254e−06
pull
Entries 89
Mean 63.92
Std Dev 24.78
pull1D
Entries 89
Mean 0.1274
Std Dev 1.187

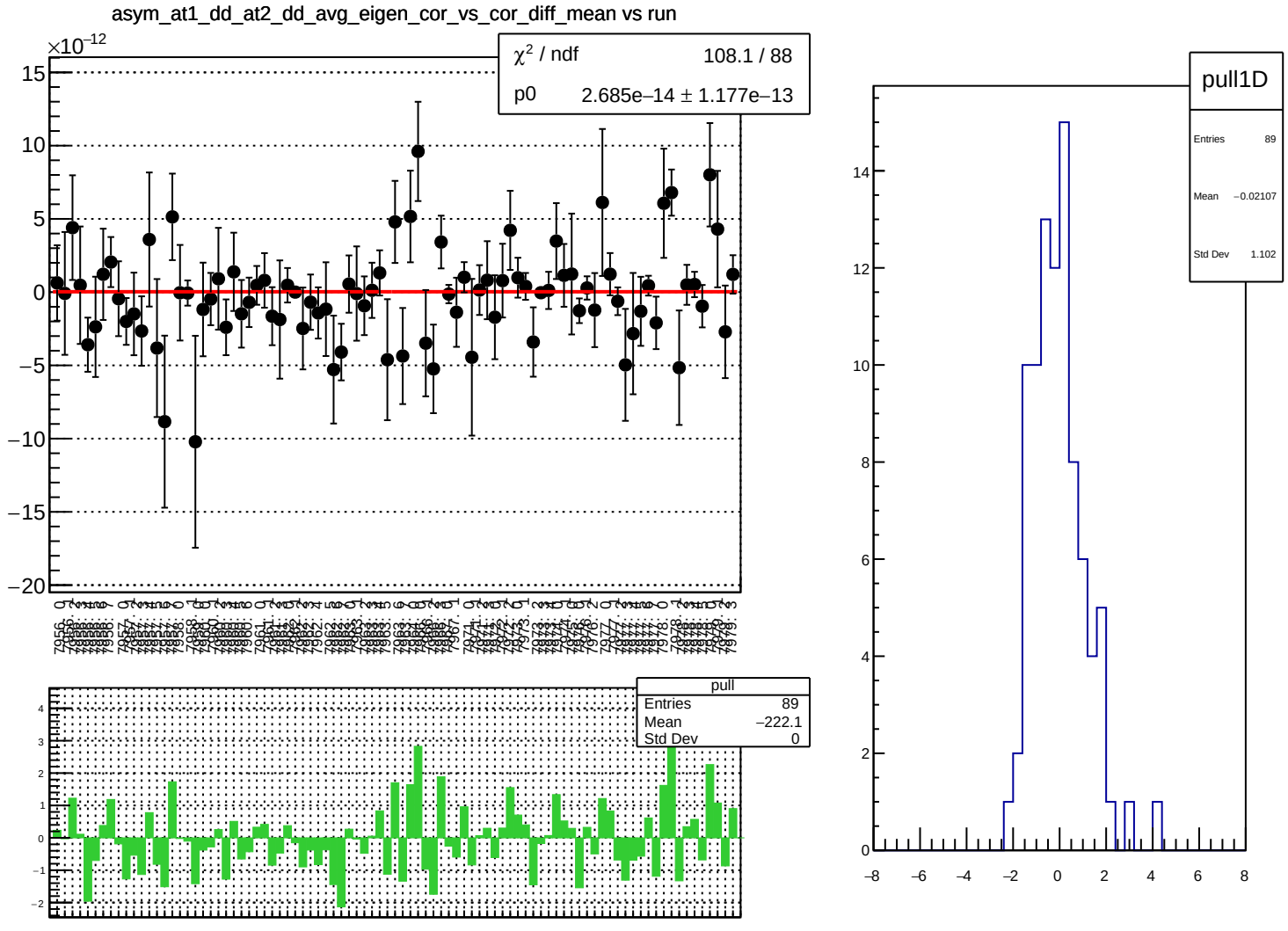

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.079e+05 / 88
p0 0.003407 ± 3.008e−06
0.012
0.01
0.008
0.006
0.004
0.002

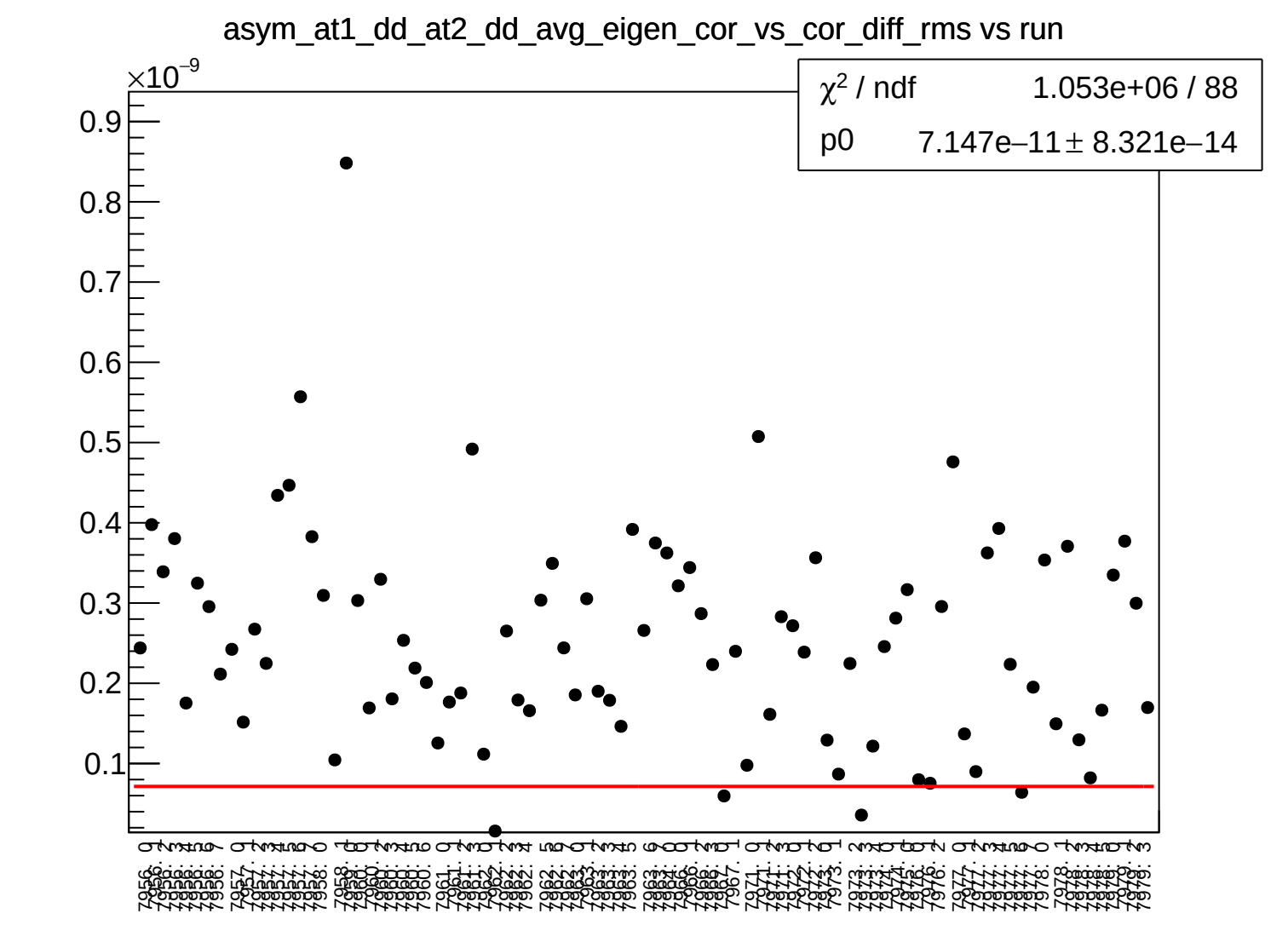

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 88
p0 −0.001834 ± 0.06614
pull
Entries 89
Mean −423
Std Dev 0
pull1D
Entries 89
Mean 0.01396
Std Dev 1.062

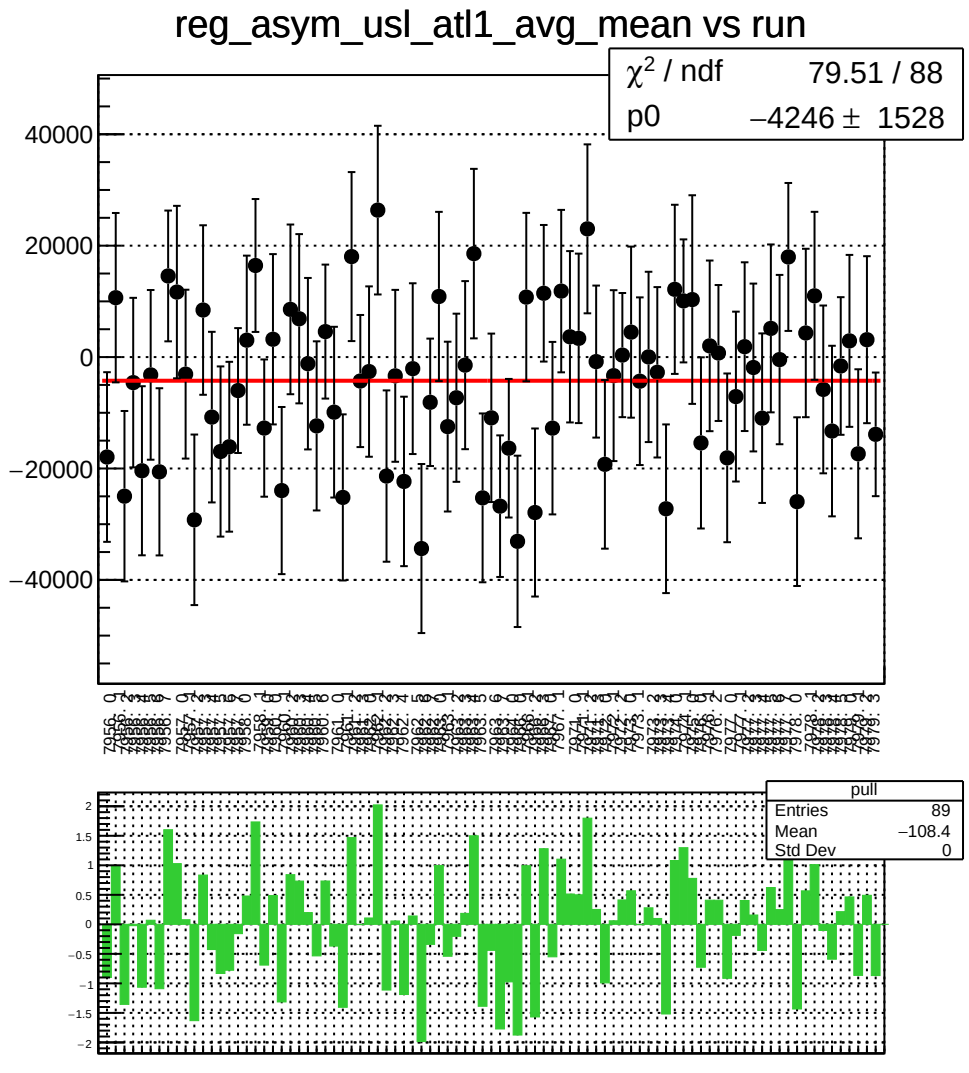

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 88
p0 59.86 ± 0.04677
300
250
200
150
100
50

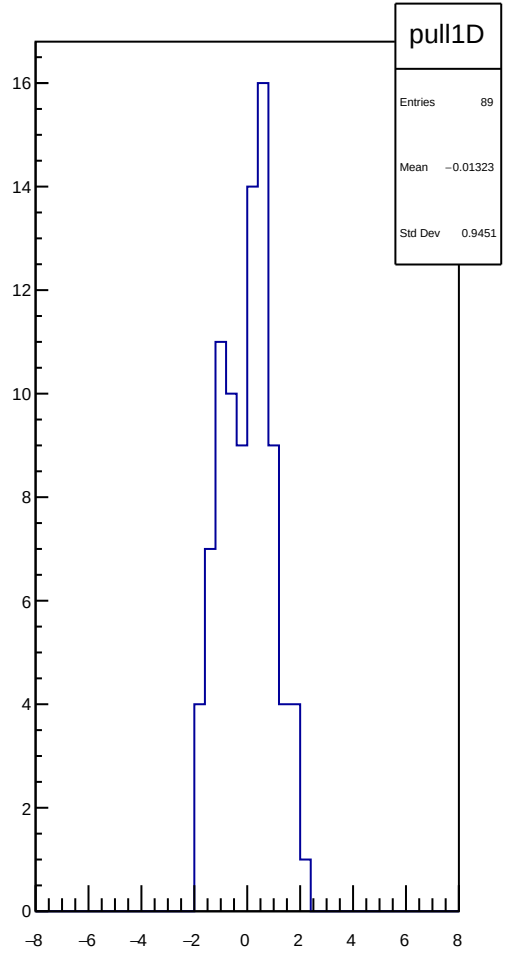

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 88
p0 −0.001834 ± 0.06614
pull
Entries 89
Mean −423
Std Dev 0
pull1D
Entries 89
Mean 0.01396
Std Dev 1.062

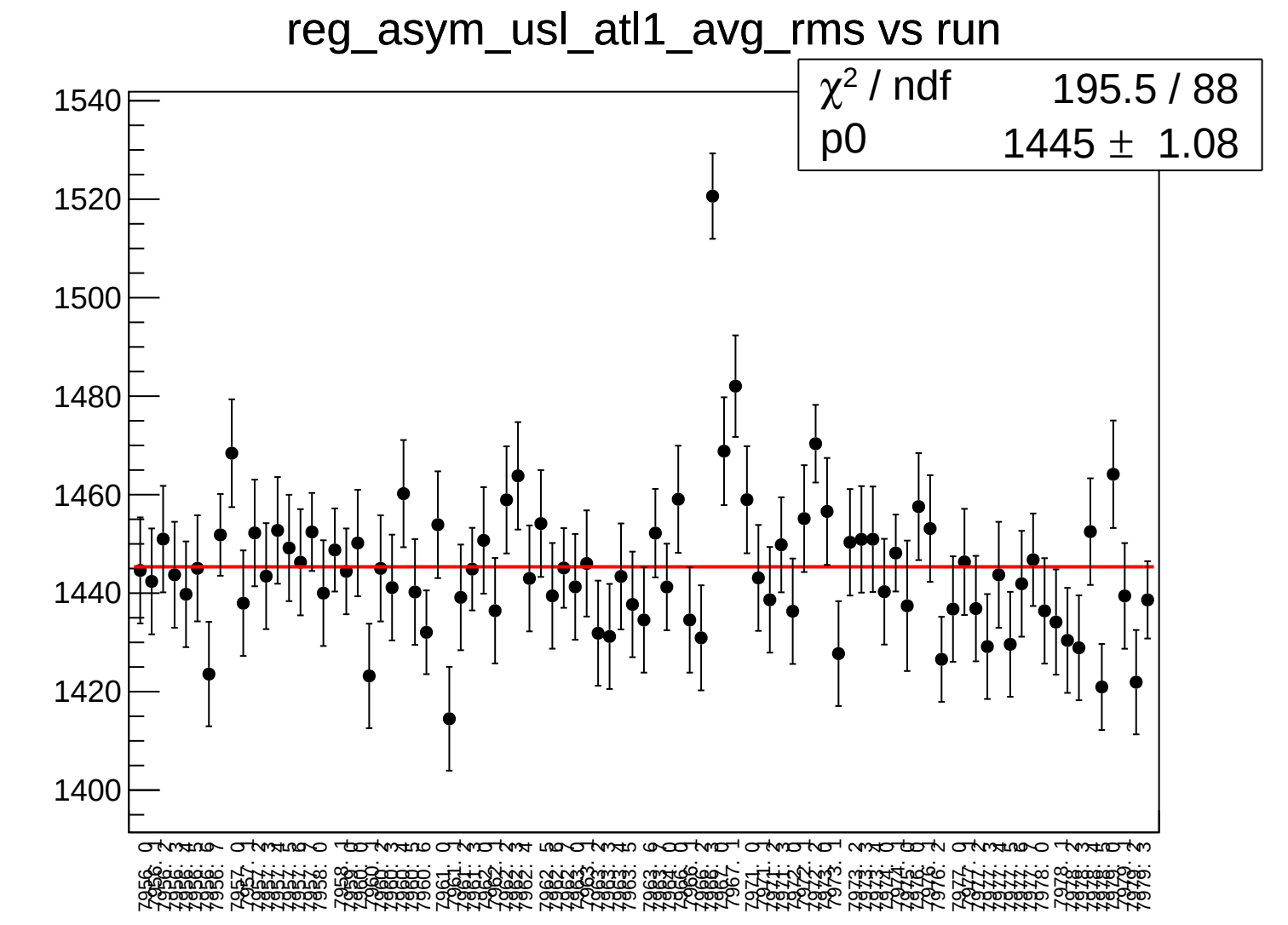

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.521e+05 / 88
p0 59.86 ± 0.04677
300
250
200
150
100
50

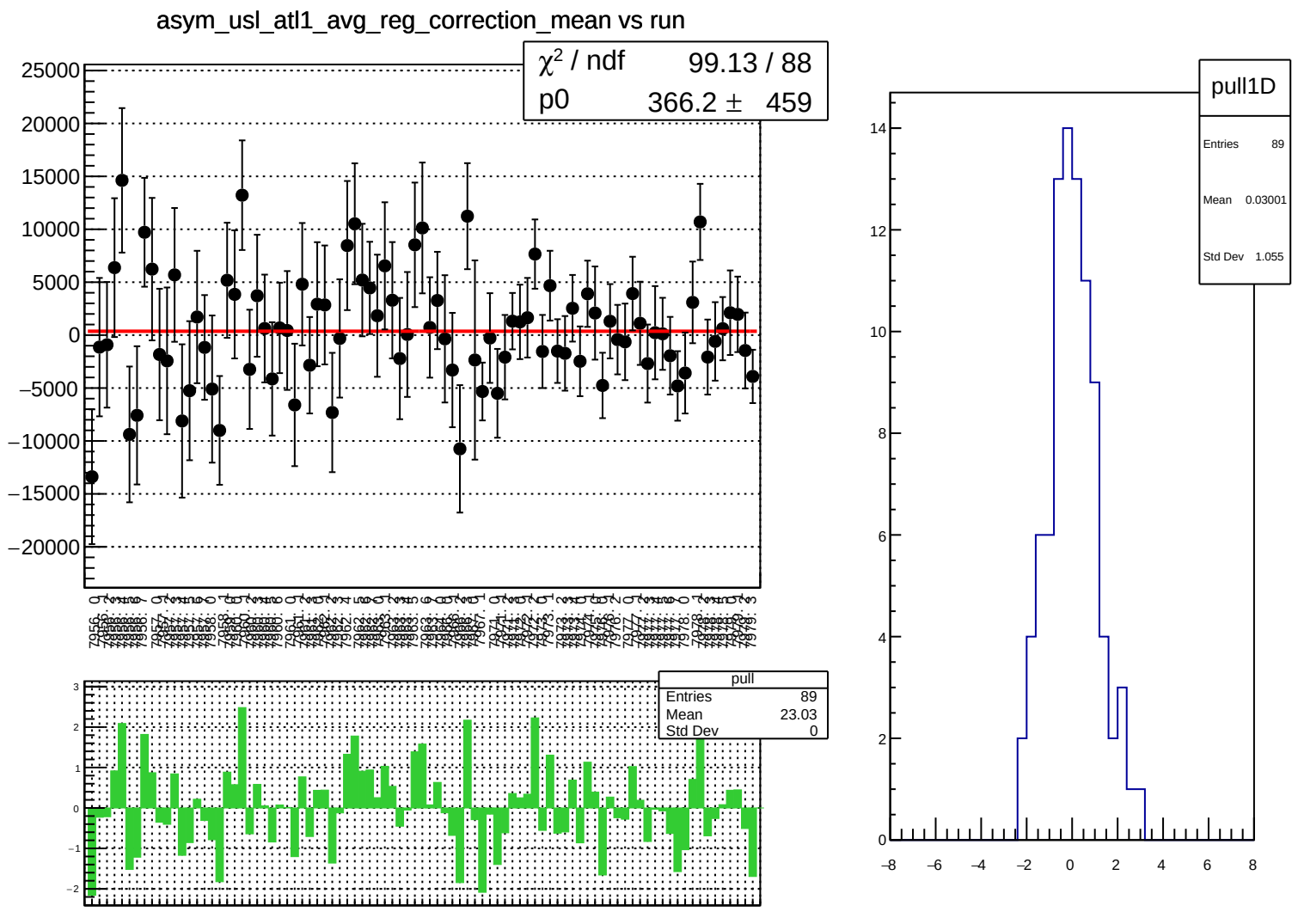

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.1 / 88
p0 2.685e−14 ± 1.177e−13
pull
Entries 89
Mean −222.1
Std Dev 0
pull1D
Entries 89
Mean −0.02107
Std Dev 1.102

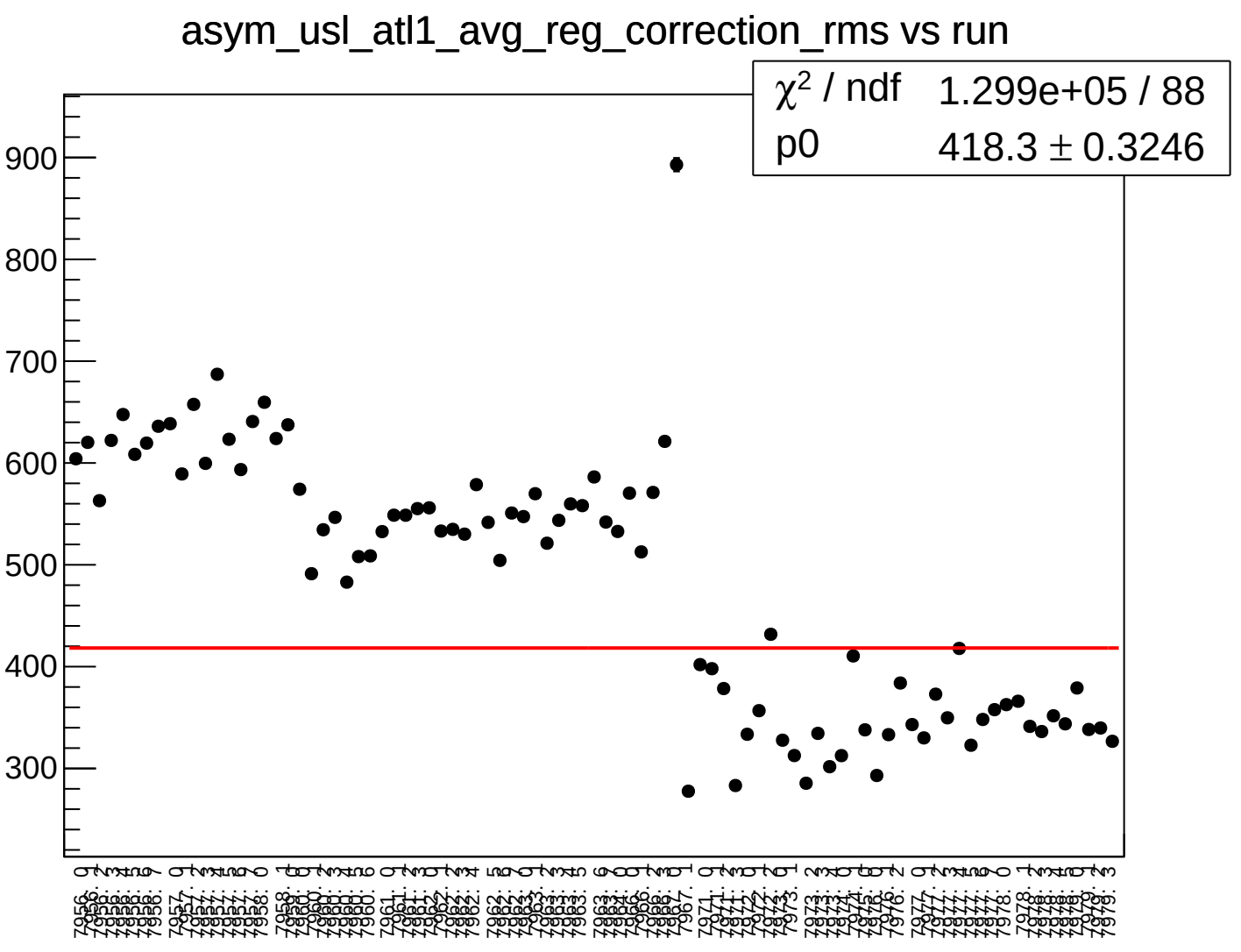

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.053e+06 / 88
p0 7.147e−11 ± 8.321e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

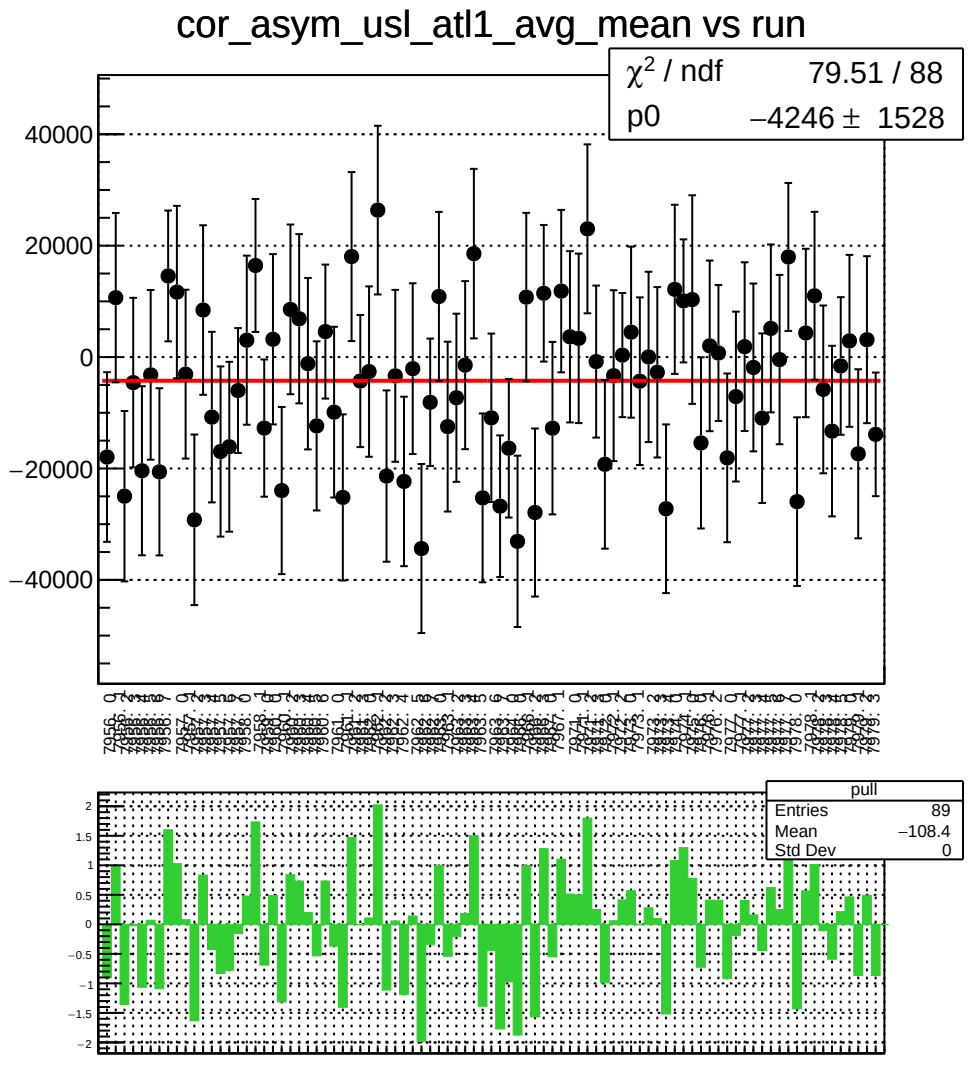

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.51 / 88
p0 −4246 ± 1528
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −108.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

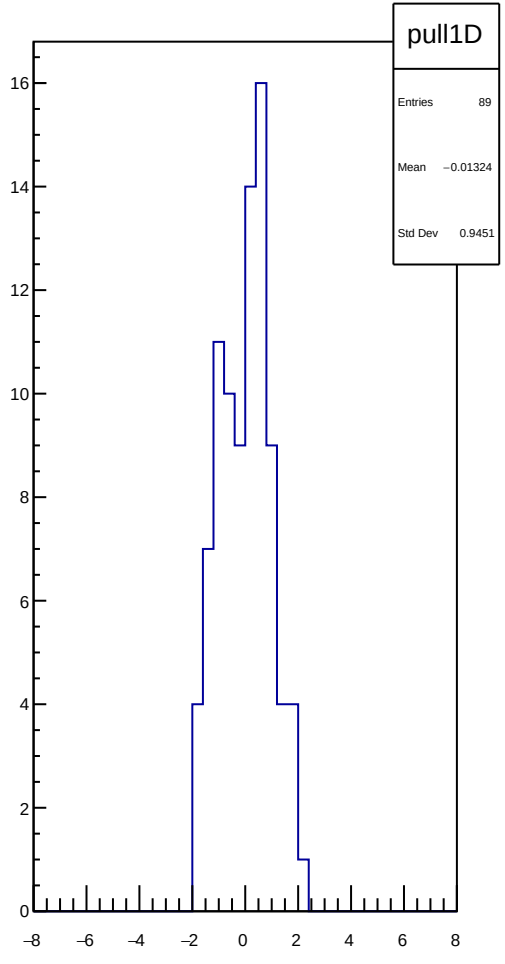

pull1D
Entries 89
Mean −0.01323
Std Dev 0.9451
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

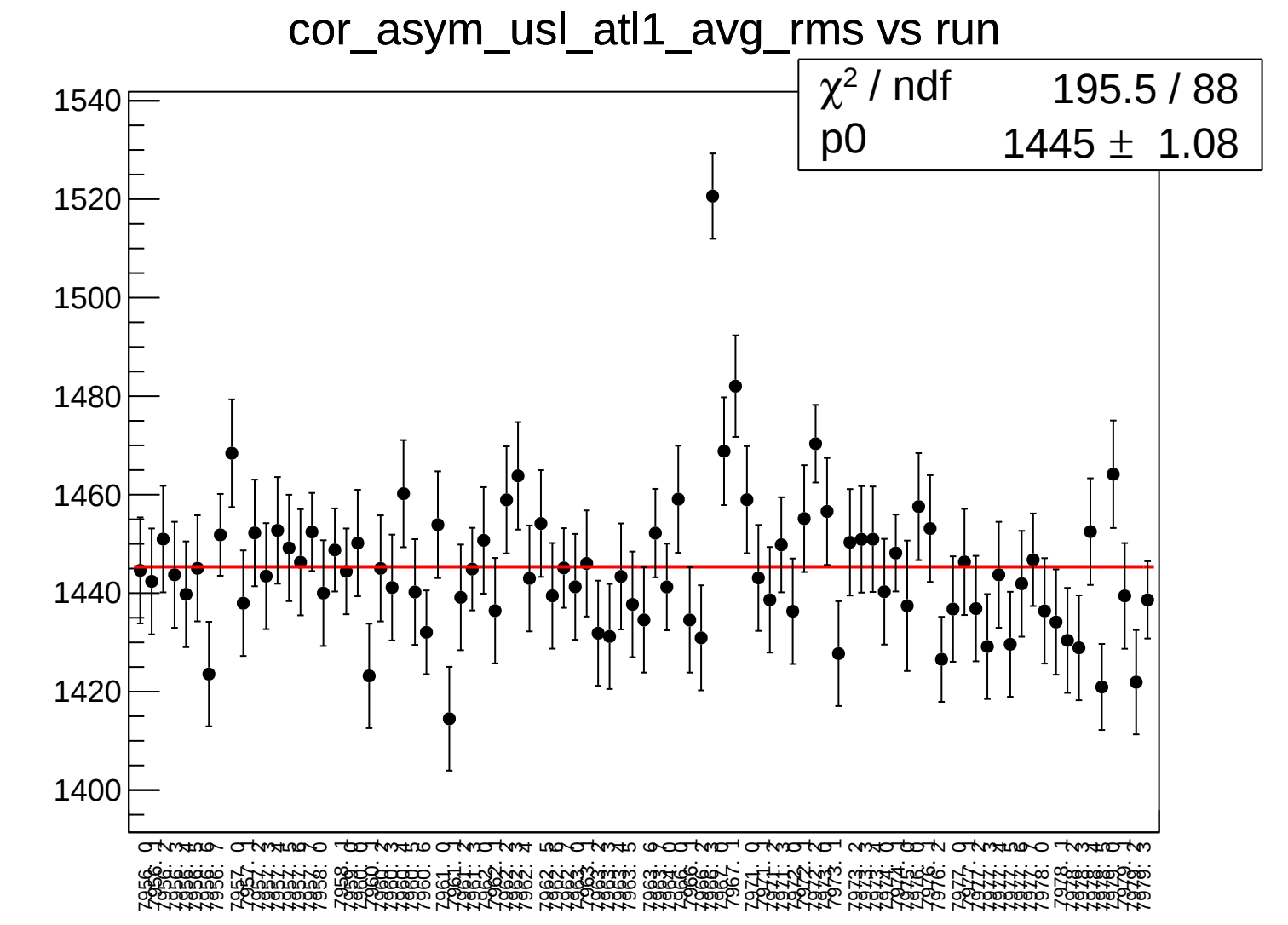

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 195.5 / 88
p0 1445 ± 1.08
1540
1520
1500
1480
1460
1440
1420
1400

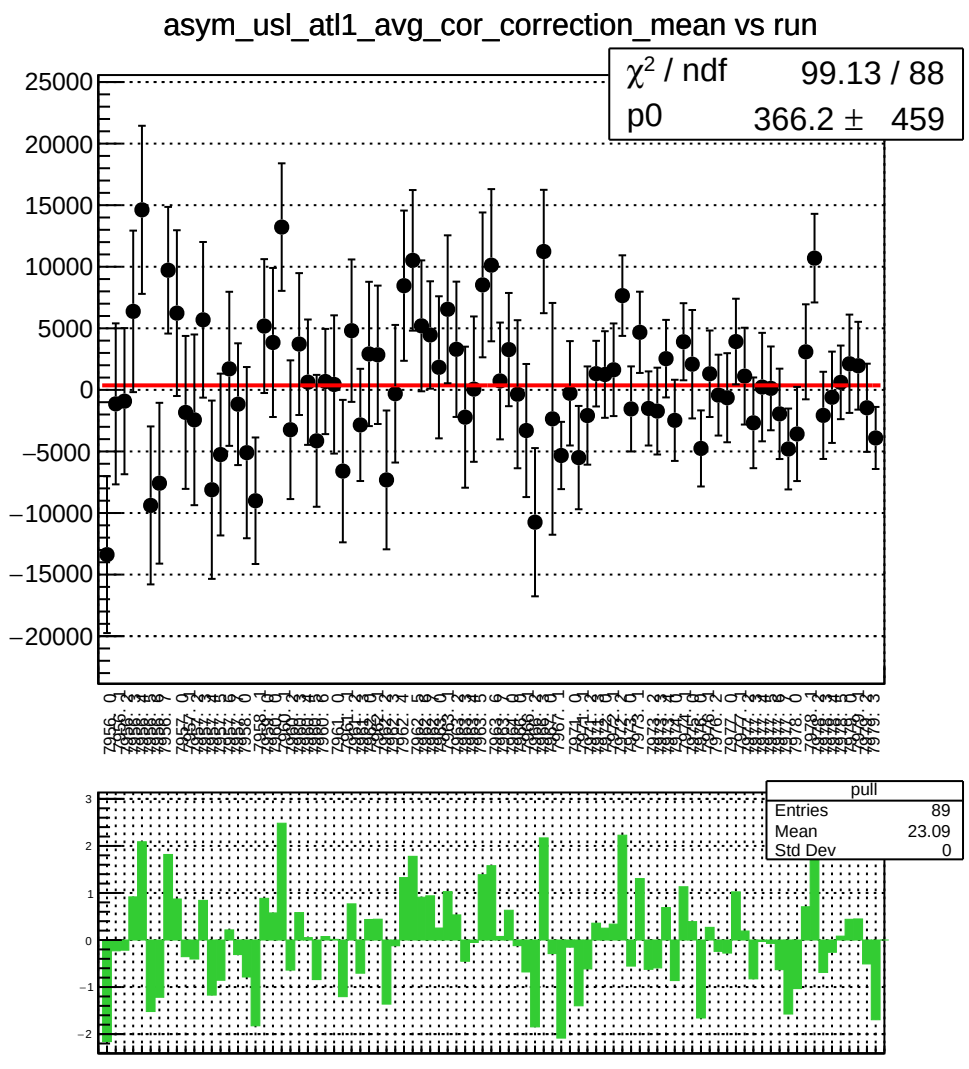

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 99.13 / 88
p0 366.2 ± 459
pull
Entries 89
Mean 23.03
Std Dev 0
pull1D
Entries 89
Mean 0.03001
Std Dev 1.055

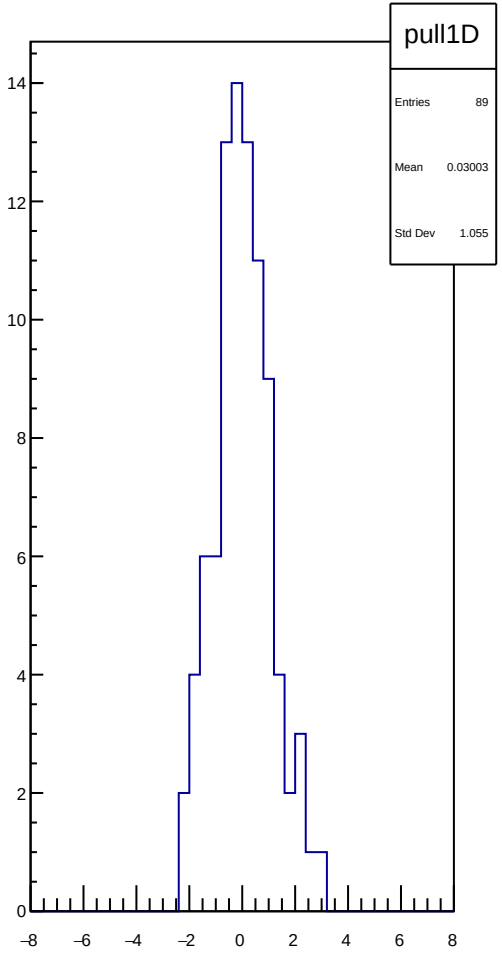

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.299e+05 / 88
p0 418.3 ± 0.3246
900
800
700
600
500
400
300

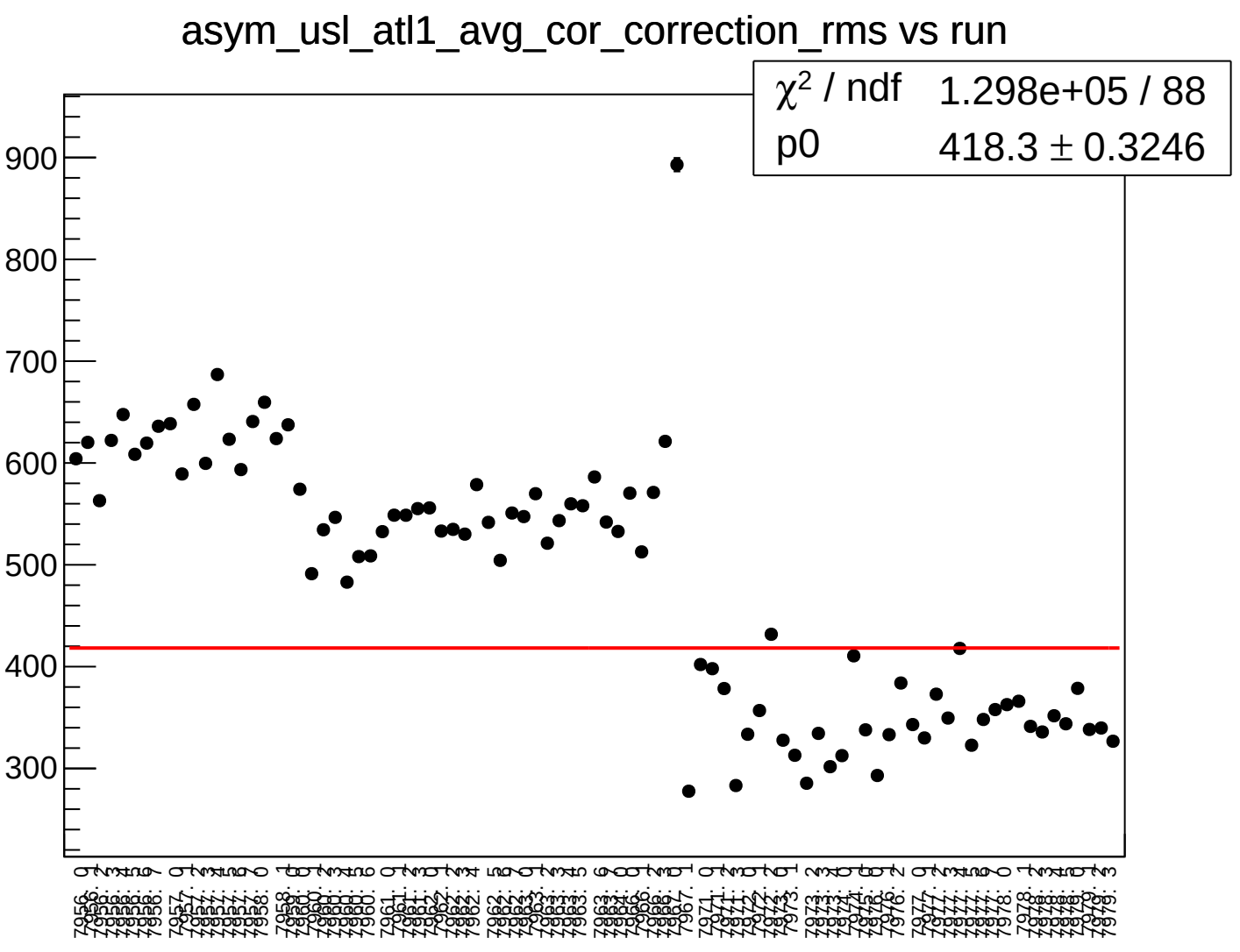

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.51 / 88
p0 −4246 ± 1528
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −108.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

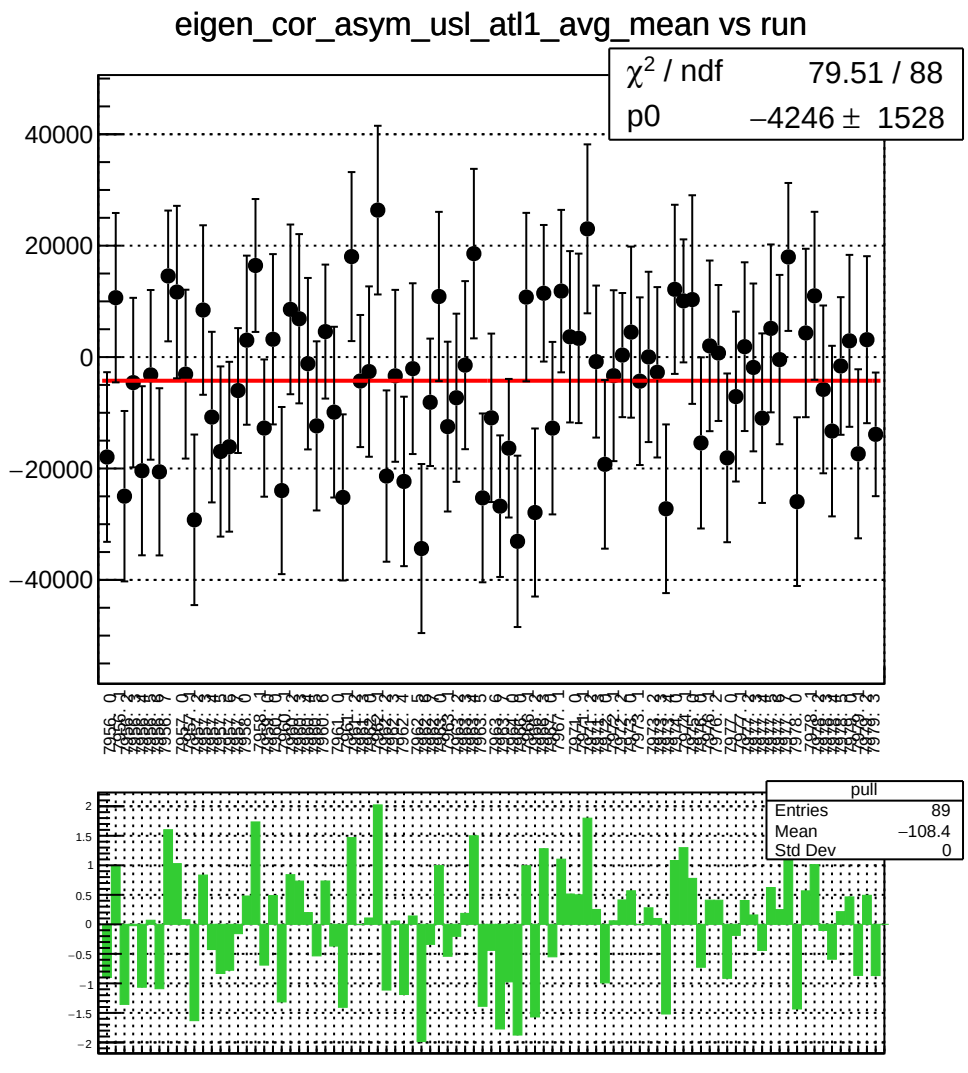

pull1D
Entries 89
Mean −0.01324
Std Dev 0.9451
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

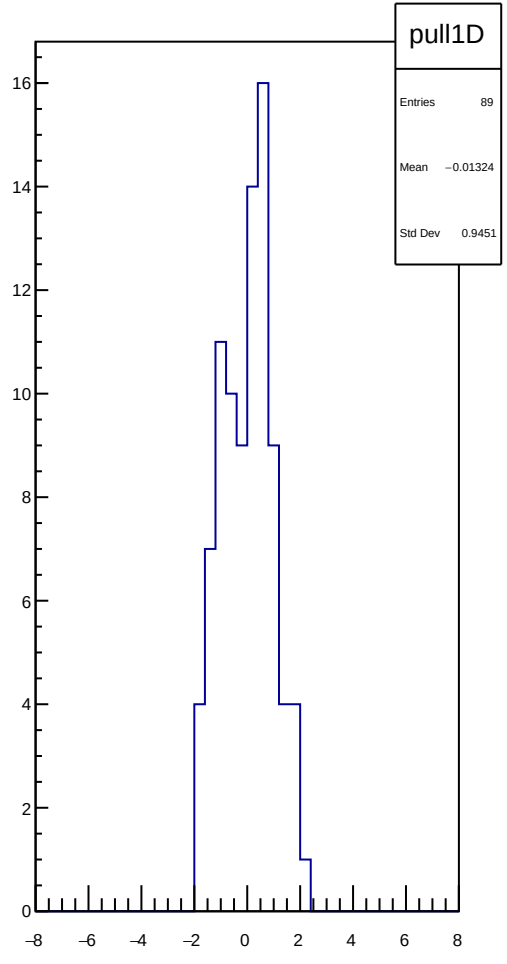

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 195.5 / 88
p0 1445 ± 1.08
1540
1520
1500
1480
1460
1440
1420
1400

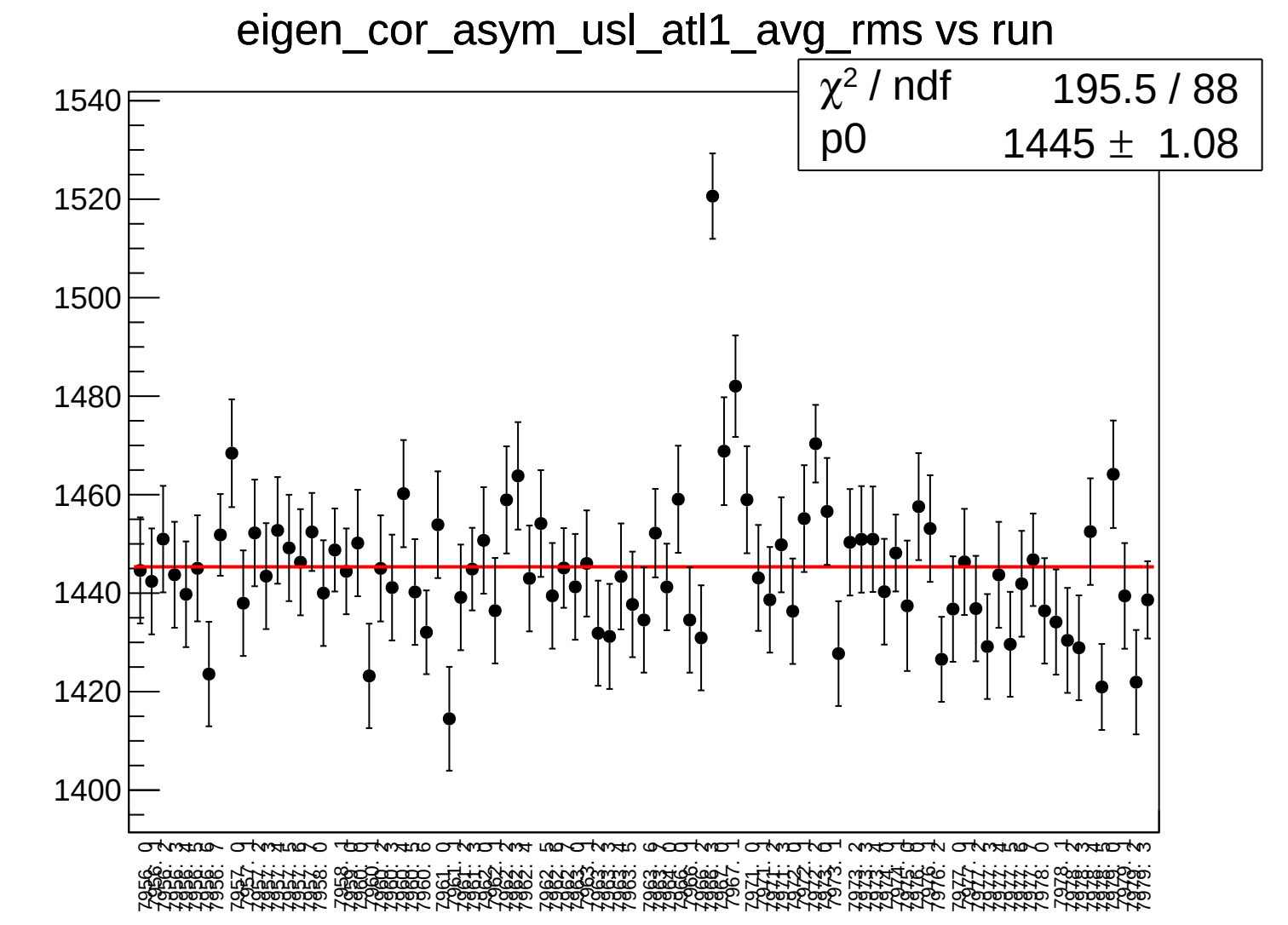

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 99.13 / 88
p0 366.2 ± 459
pull
Entries 89
Mean 23.09
Std Dev 0

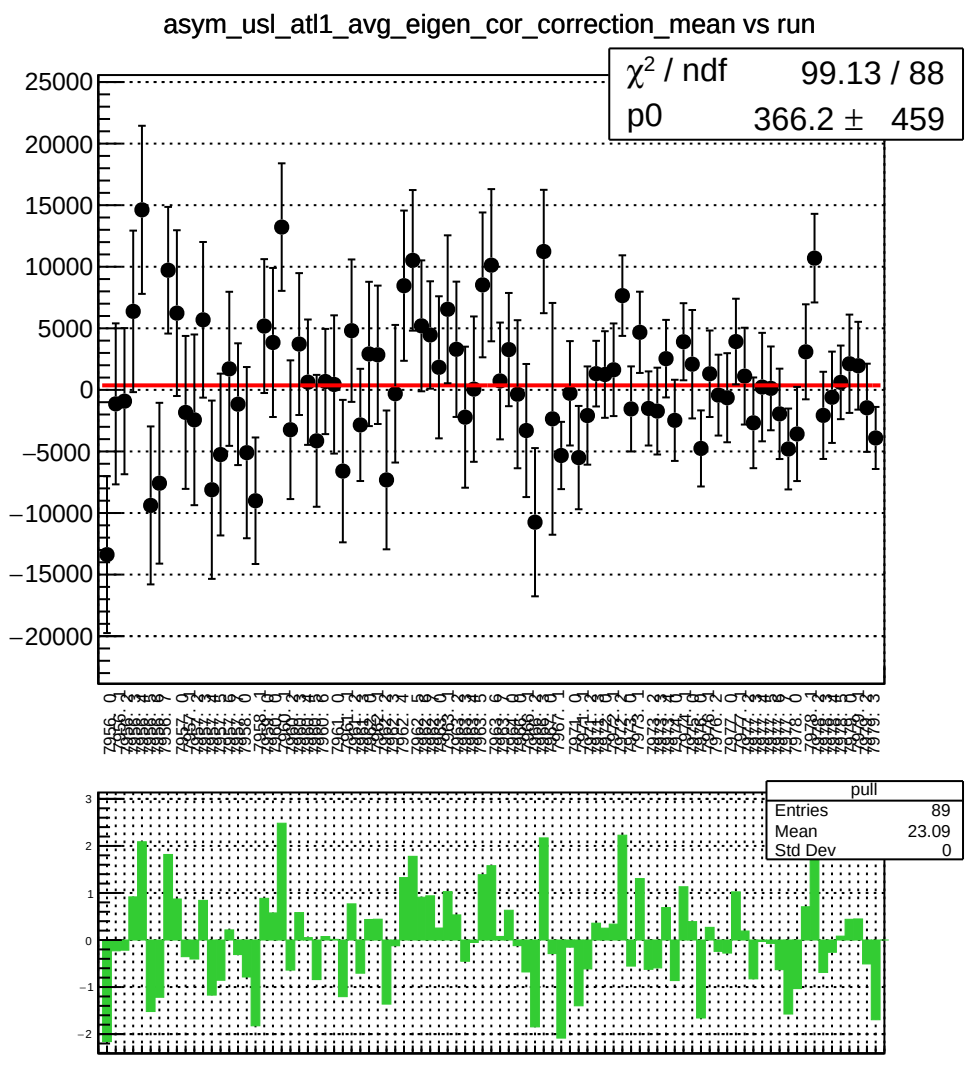

pull1D
Entries 89
Mean 0.03003
Std Dev 1.055

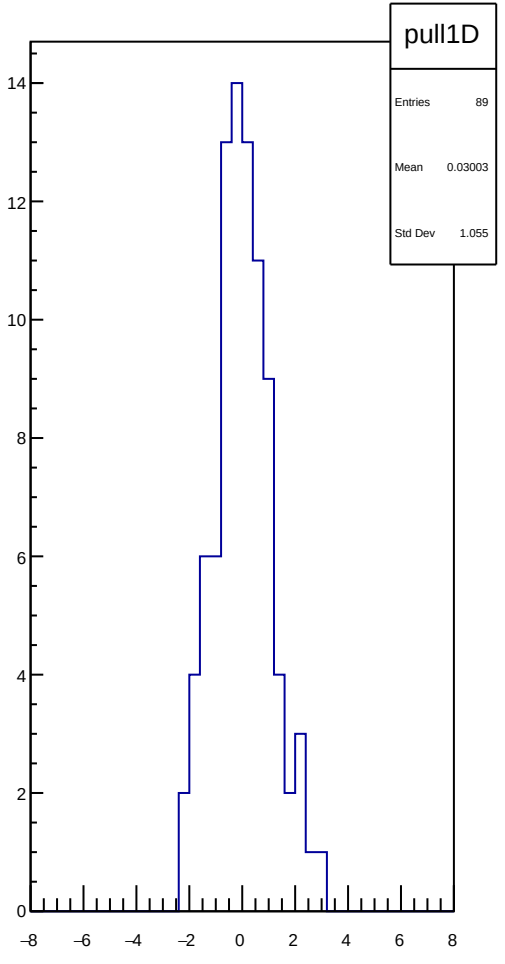

asym_usl_atl1_avg_cor_correction_rms vs run
$\chi^2$ / ndf 1.298e+05 / 88
p0 418.3 ± 0.3246
900
800
700
600
500
400
300

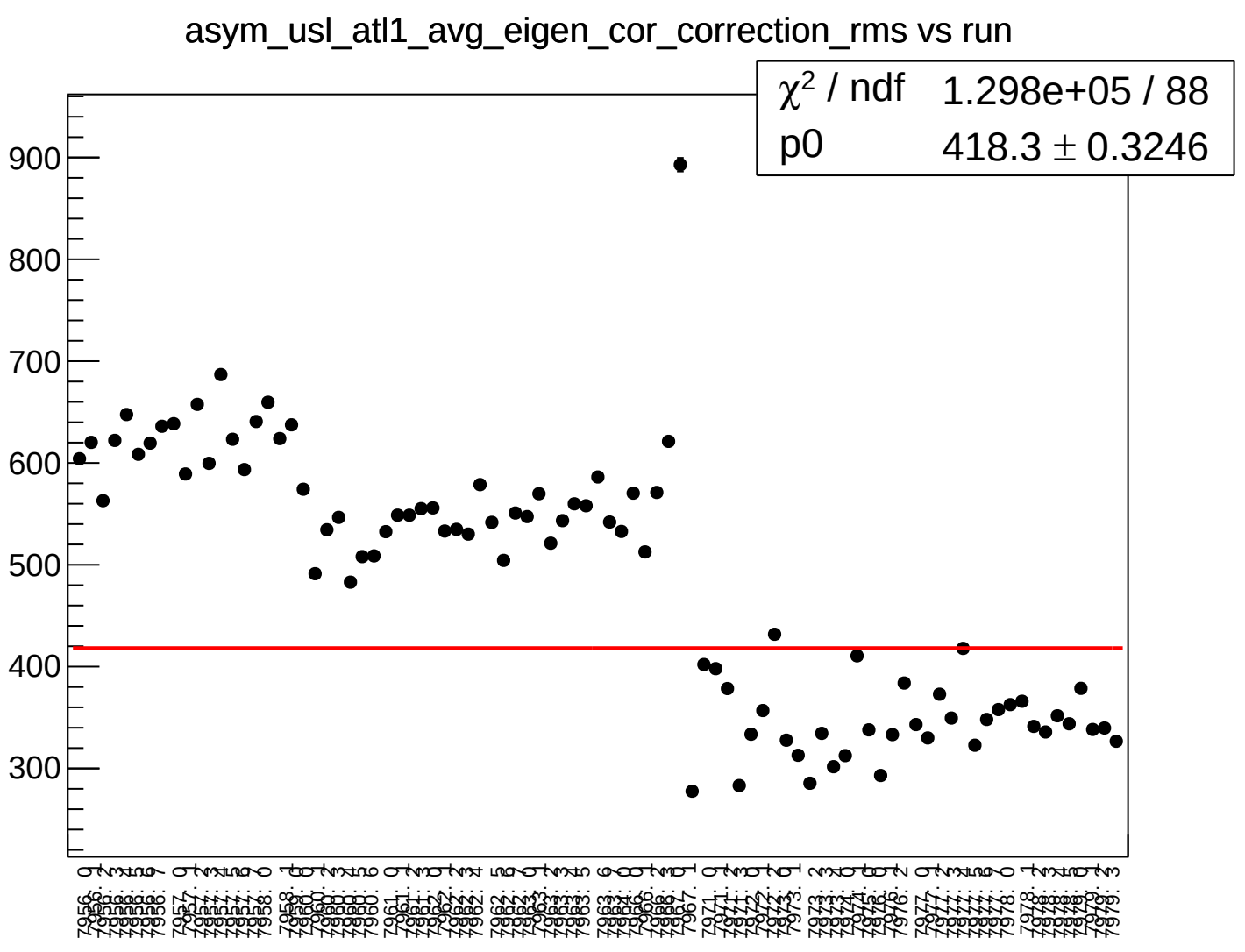

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 79.51 / 88
p0 −4246 ± 1528
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −108.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

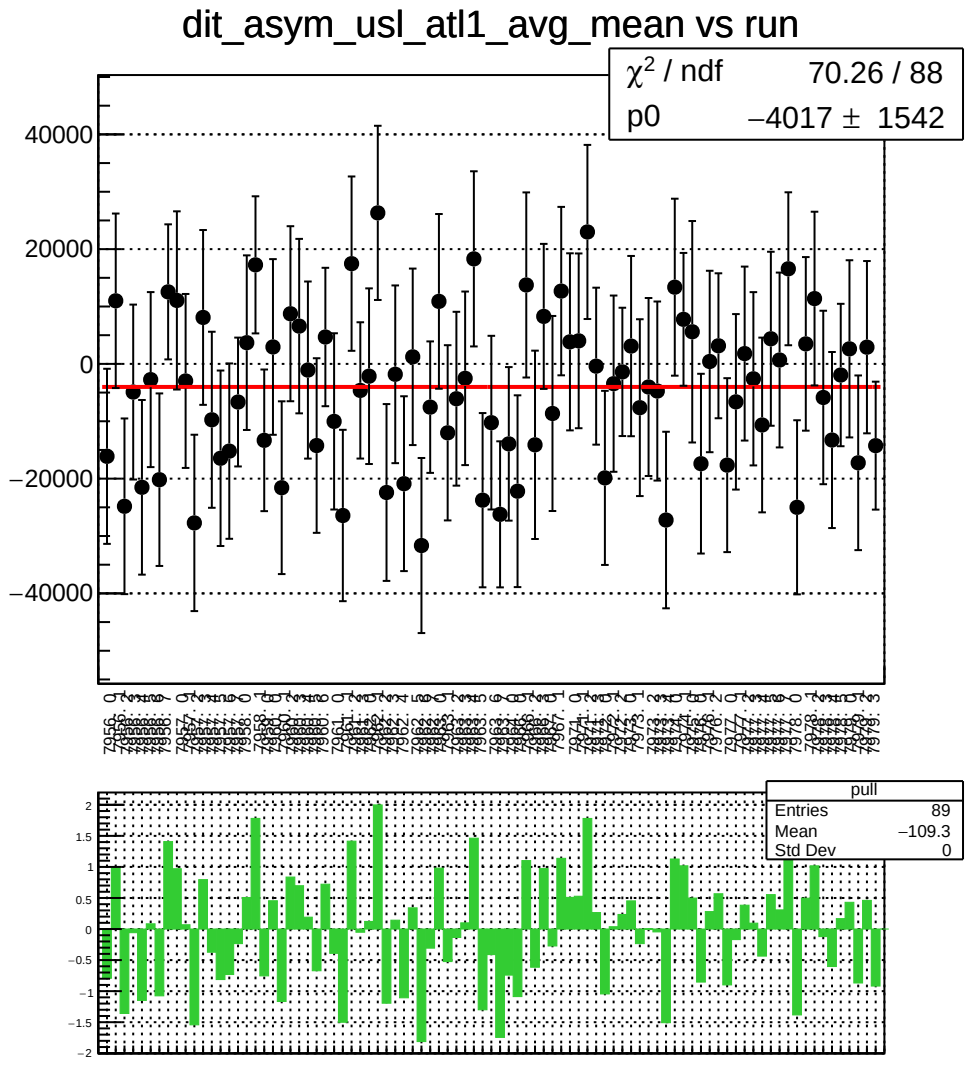

pull1D
Entries 89
Mean −0.01324
Std Dev 0.9451
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

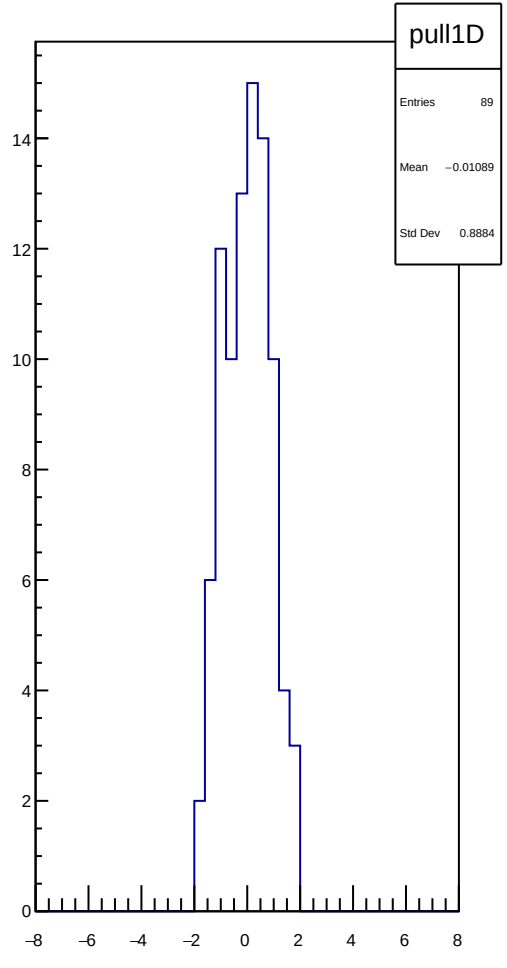

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 195.5 / 88
p0 1445 ± 1.08
1540
1520
1500
1480
1460
1440
1420
1400

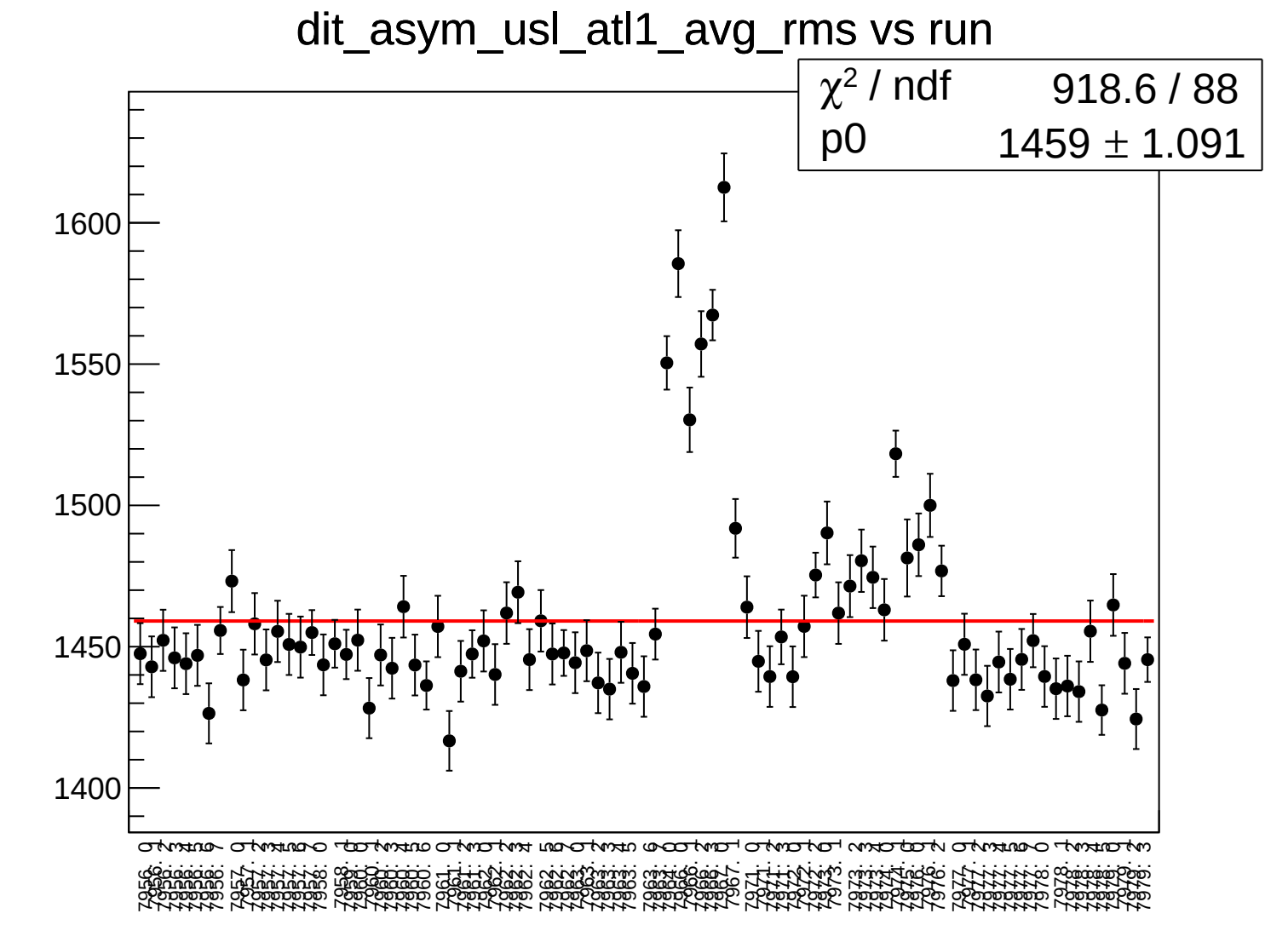

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.13 / 88
p0 366.2 ± 459
pull
Entries 89
Mean 23.09
Std Dev 0

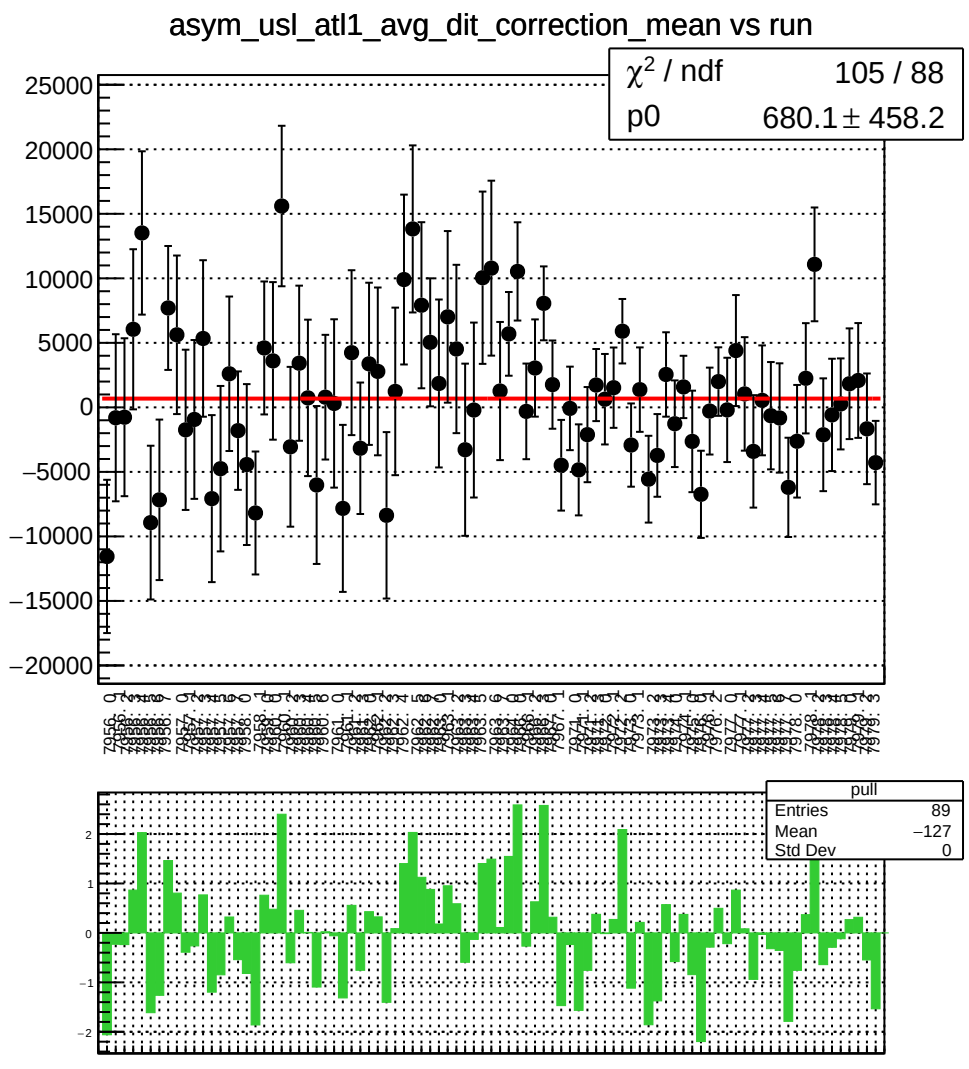

pull1D
Entries 89
Mean 0.03003
Std Dev 1.055

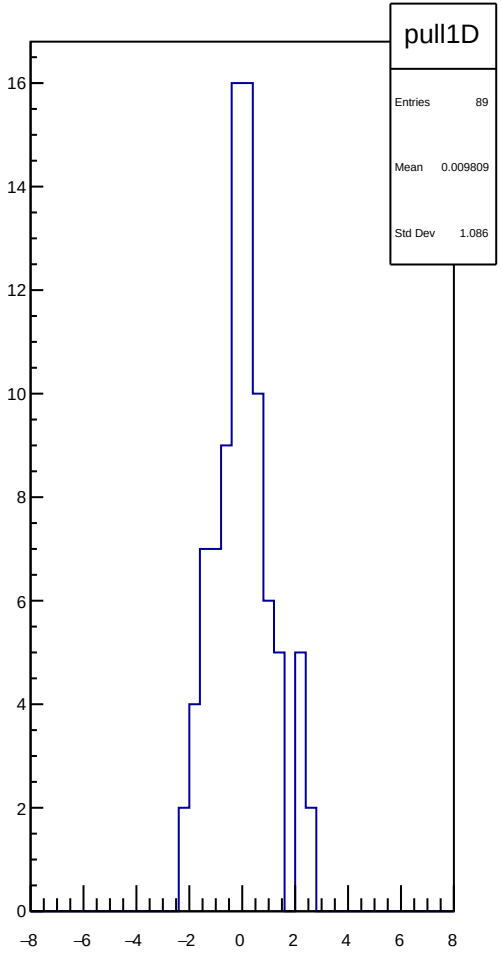

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.298e+05 / 88
p0 418.3 ± 0.3246
900
800
700
600
500
400
300

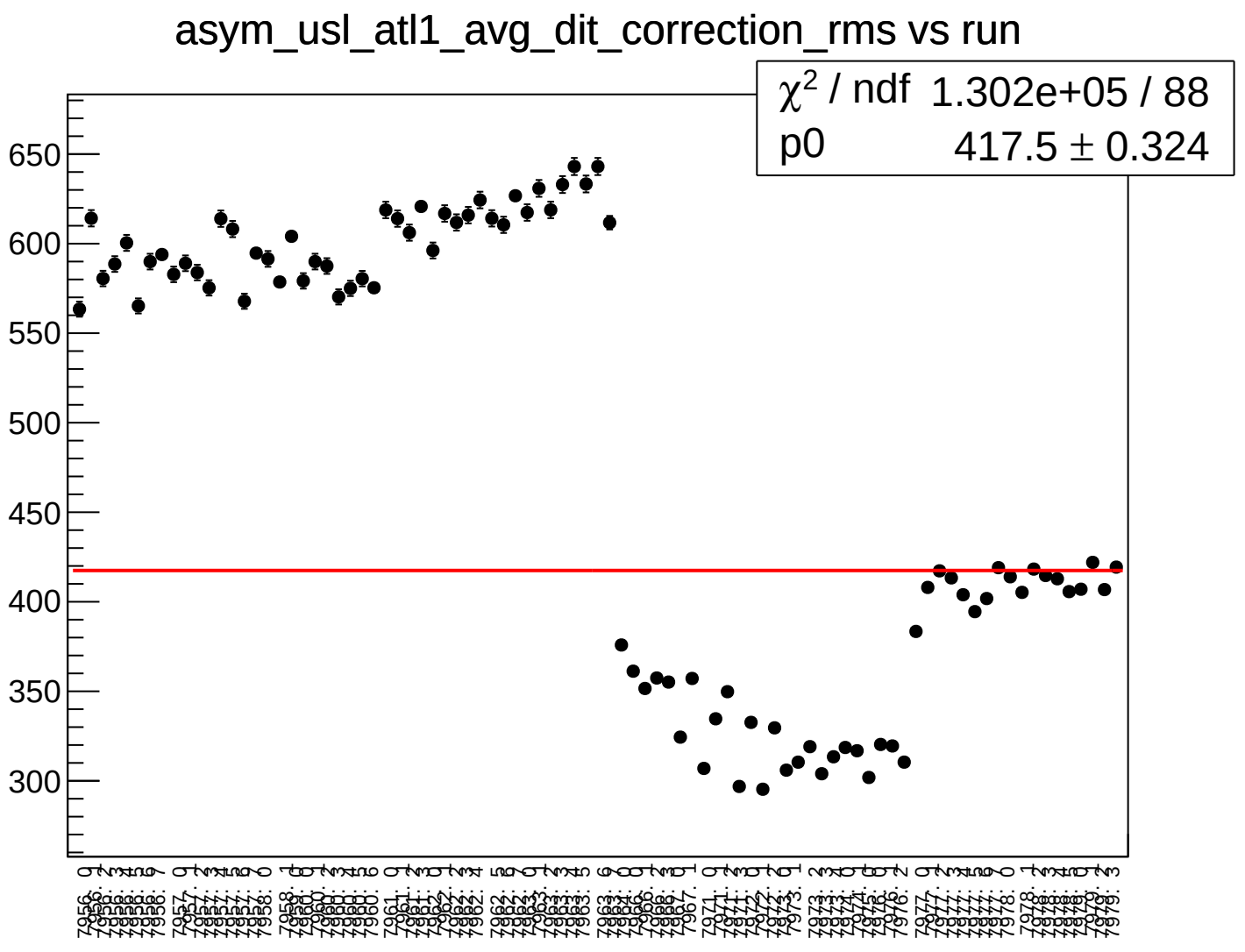

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 70.26 / 88
p0 −4017 ± 1542
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −109.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

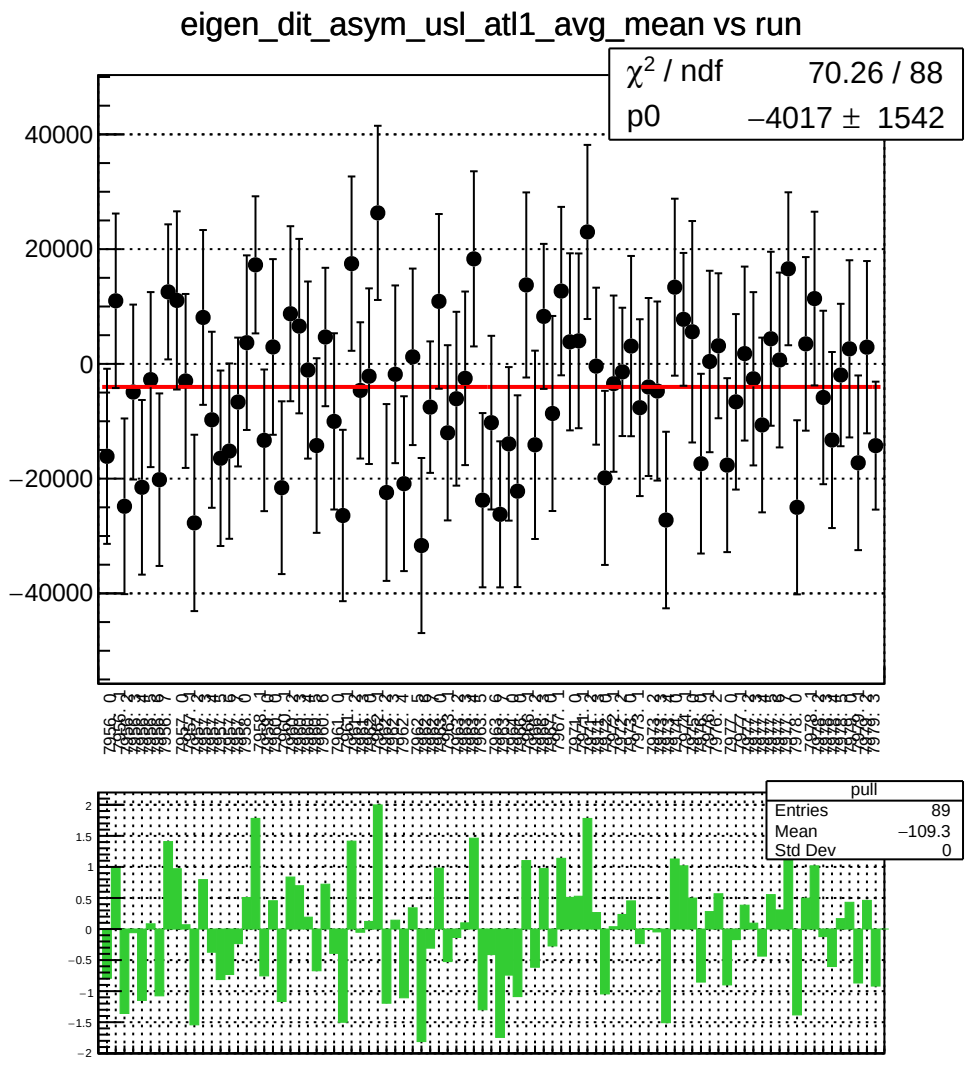

pull1D
Entries 89
Mean −0.01089
Std Dev 0.8884
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

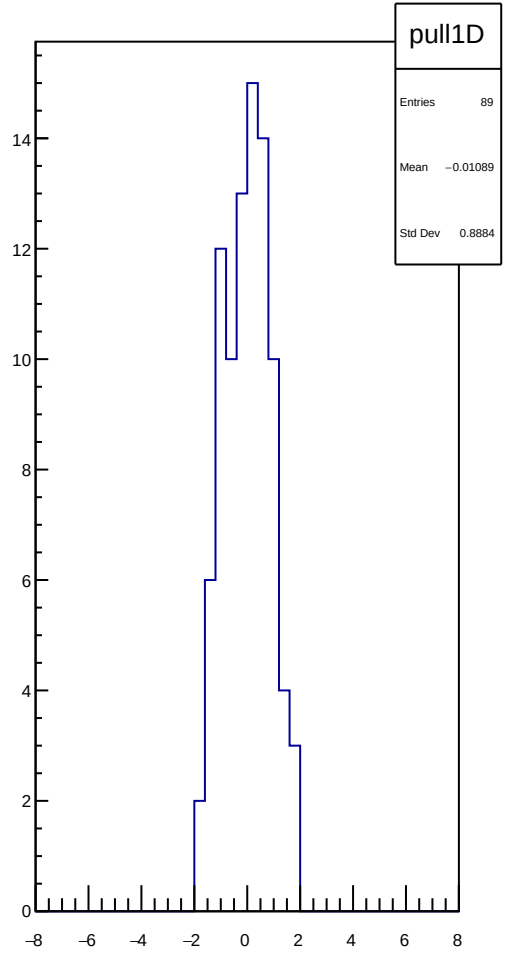

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 918.6 / 88
p0 1459 ± 1.091
1600
1550
1500
1450
1400

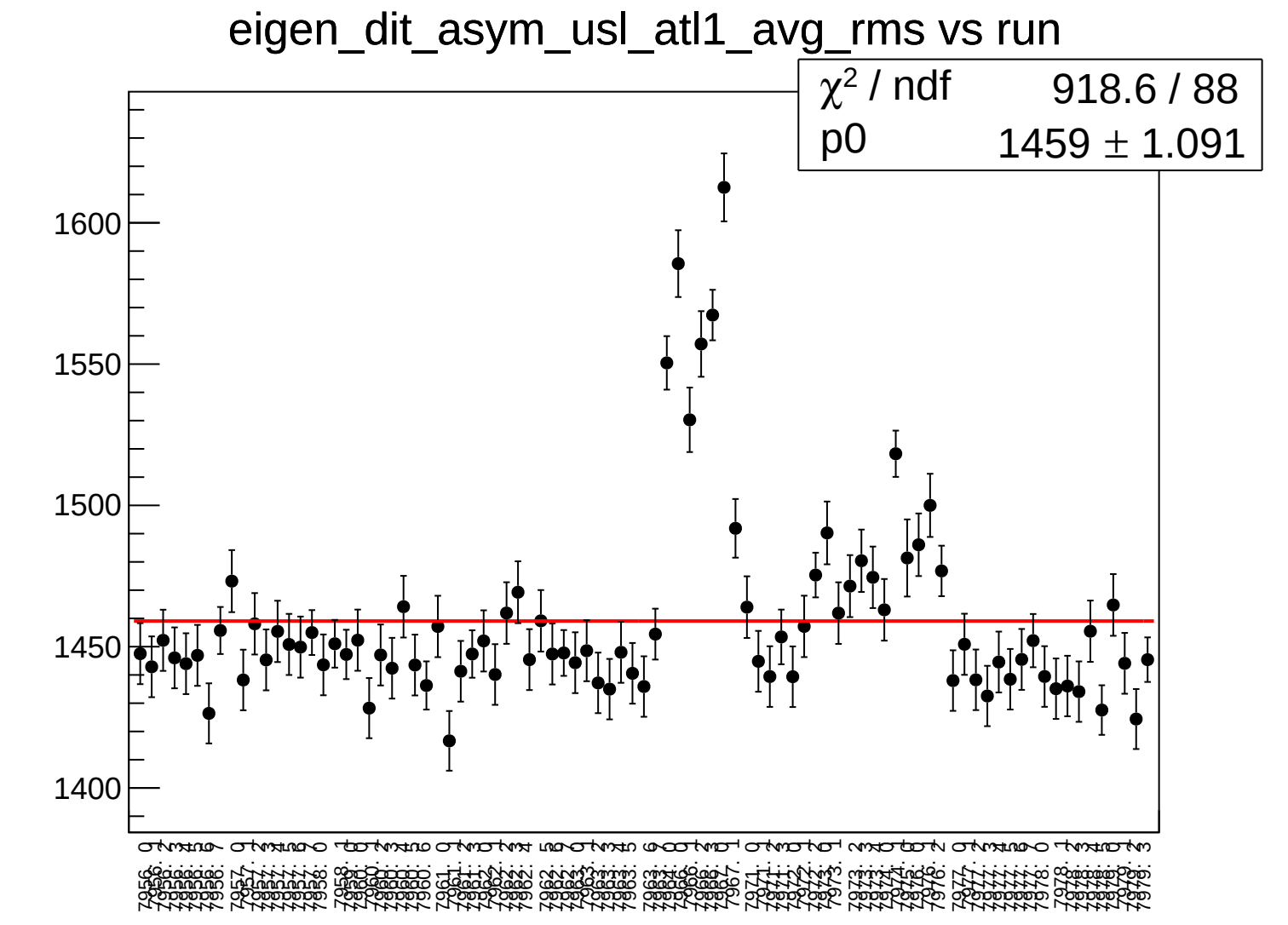

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 105 / 88
p0 680.1 ± 458.2
pull
Entries 89
Mean −127
Std Dev 0

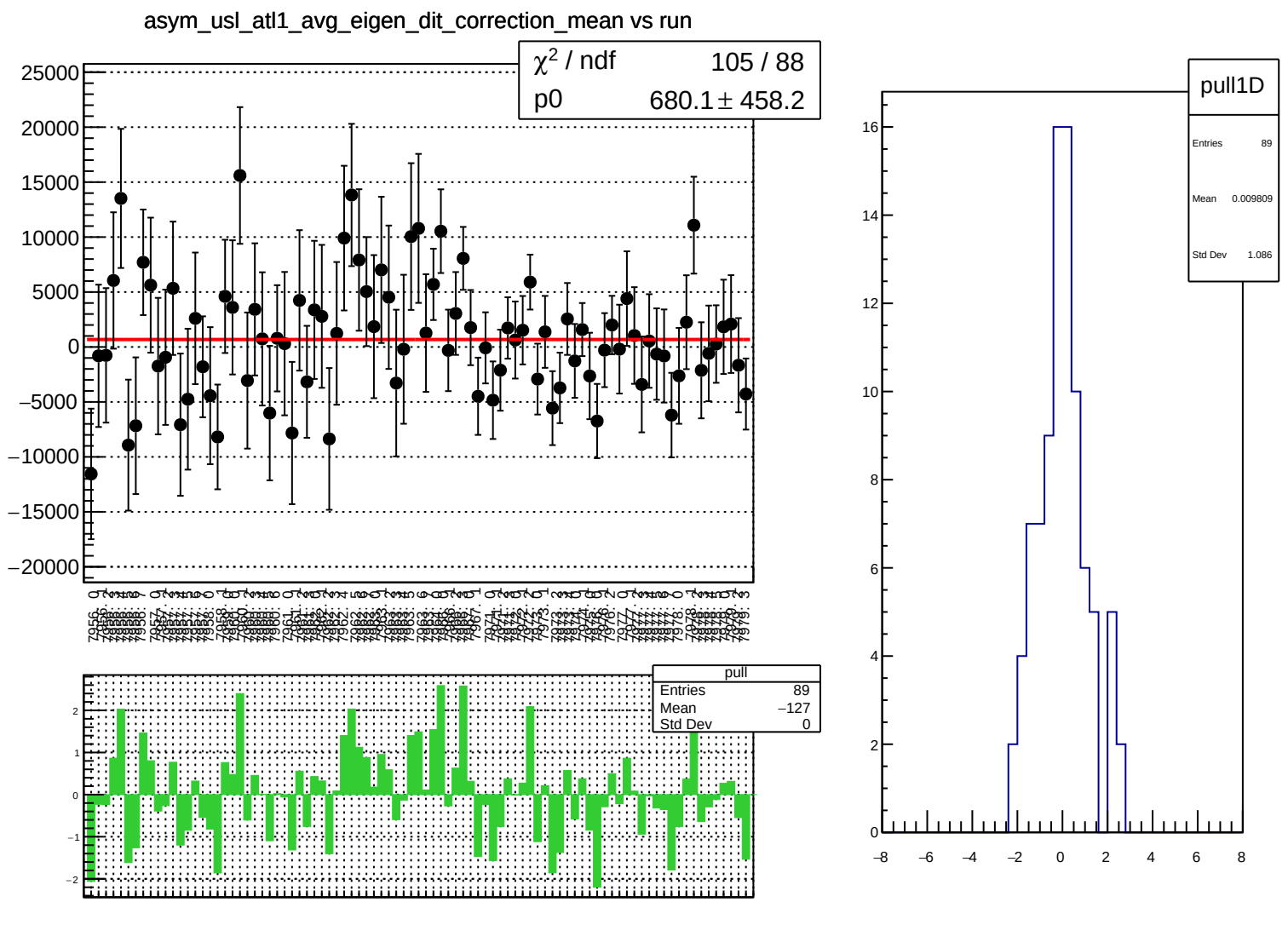

pull1D
Entries 89
Mean 0.009809
Std Dev 1.086

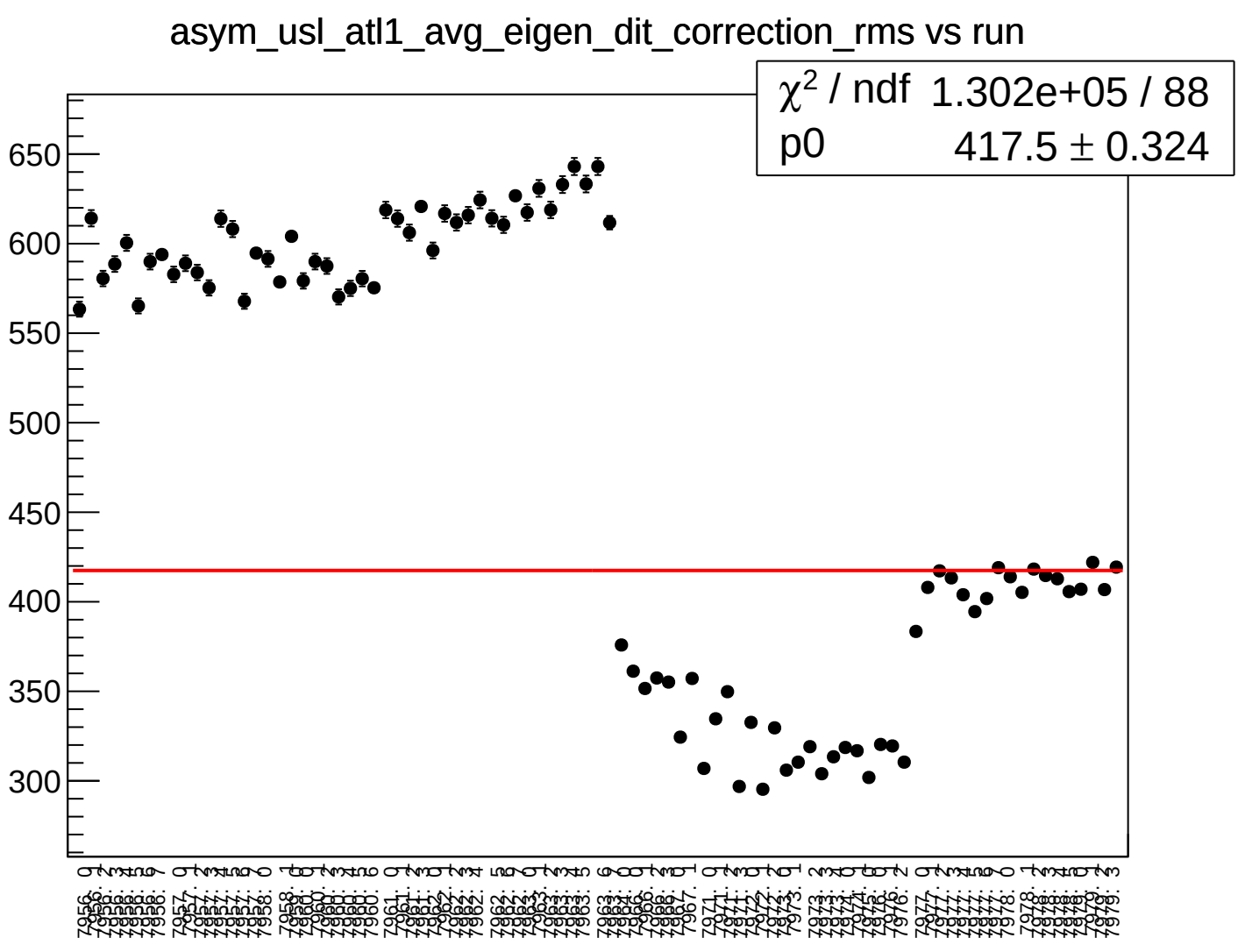

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1.302e+05 / 88
p0 417.5 ± 0.324
650
600
550
500
450
400
350
300

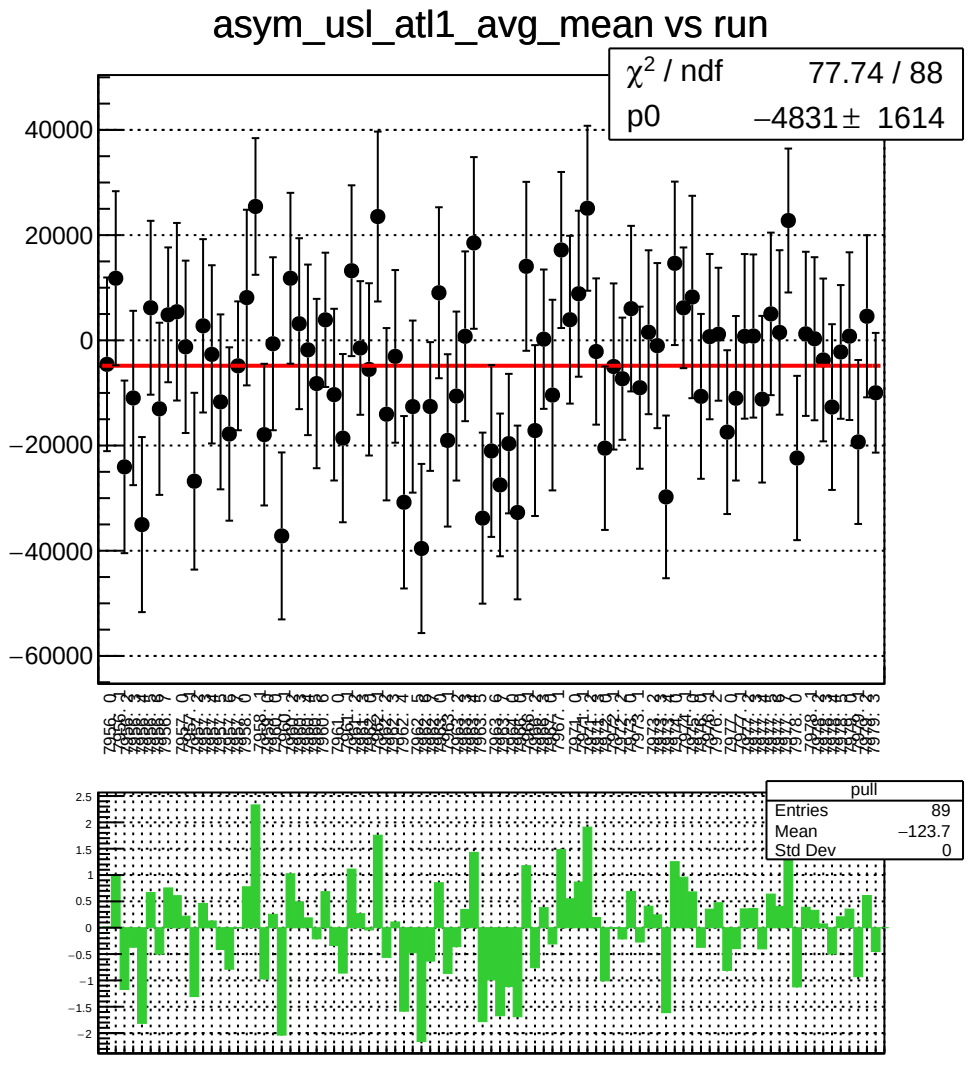

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 70.26 / 88
p0 −4017 ± 1542
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −109.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

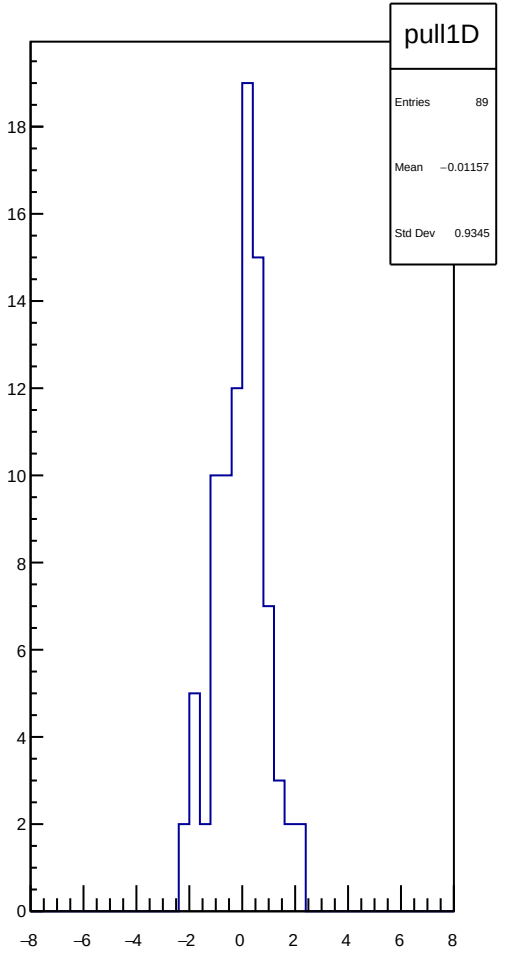

pull1D
Entries 89
Mean −0.01089
Std Dev 0.8884
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

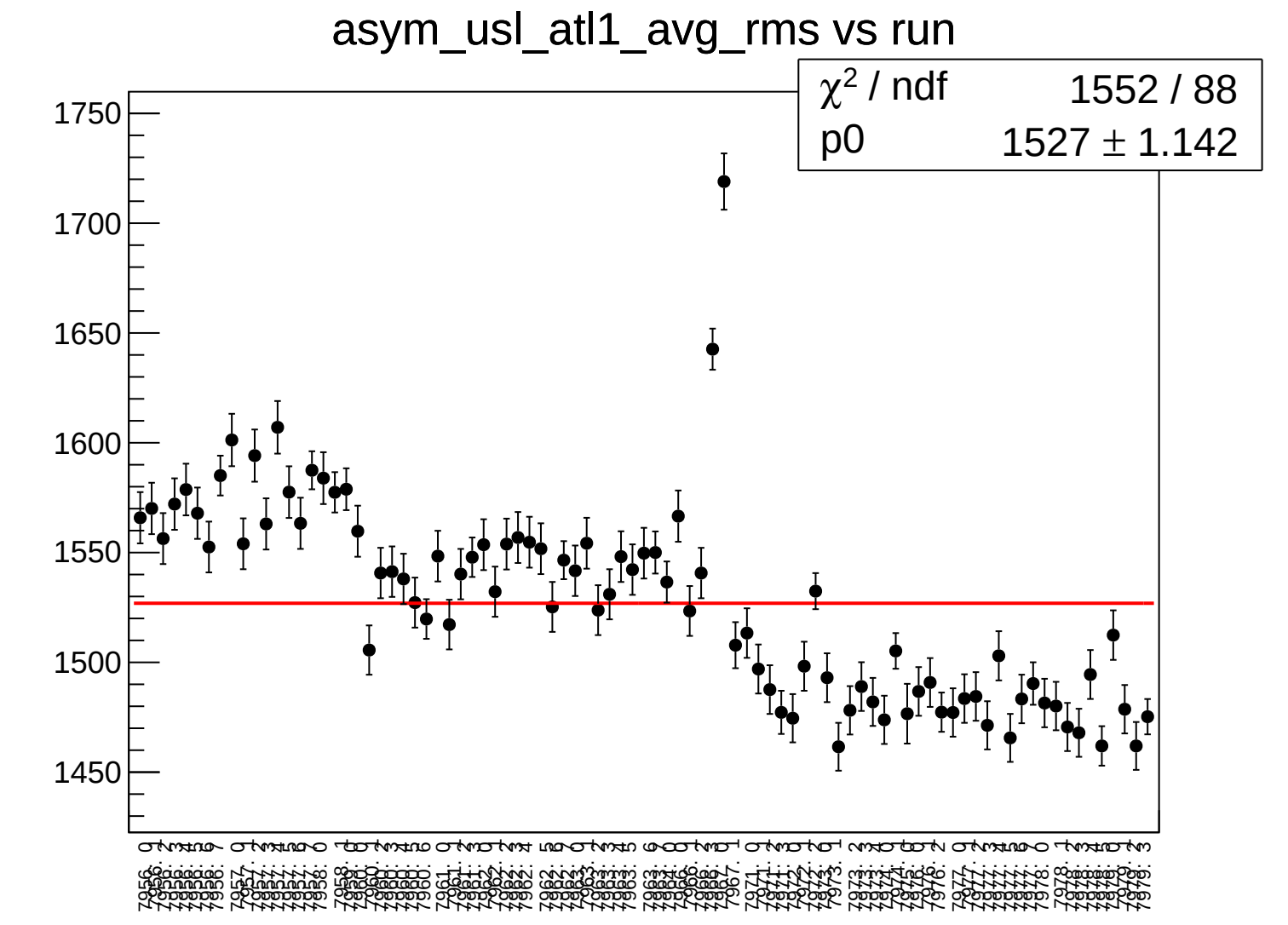

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 918.6 / 88
p0 1459 ± 1.091
1600
1550
1500
1450
1400

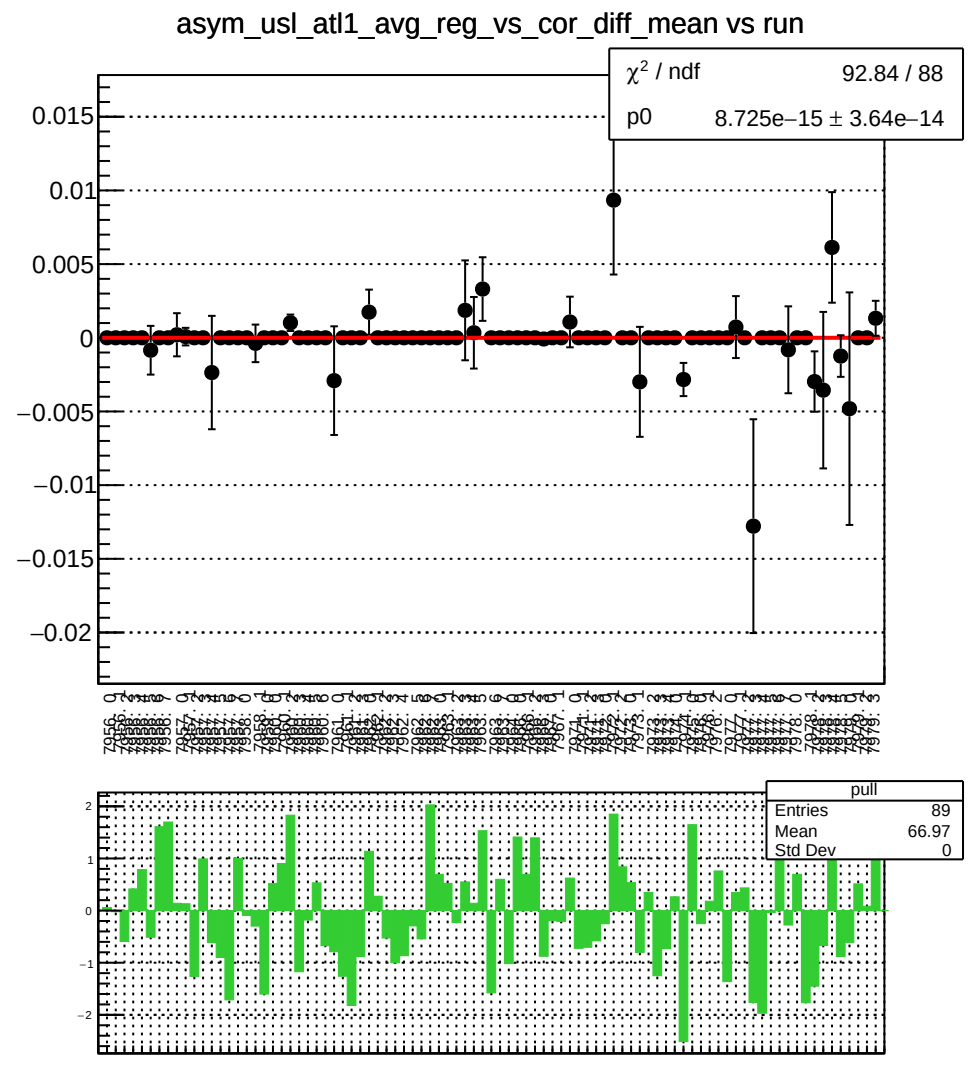

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 105 / 88
p0 680.1 ± 458.2
pull
Entries 89
Mean −127
Std Dev 0
pull1D
Entries 89
Mean 0.009809
Std Dev 1.086

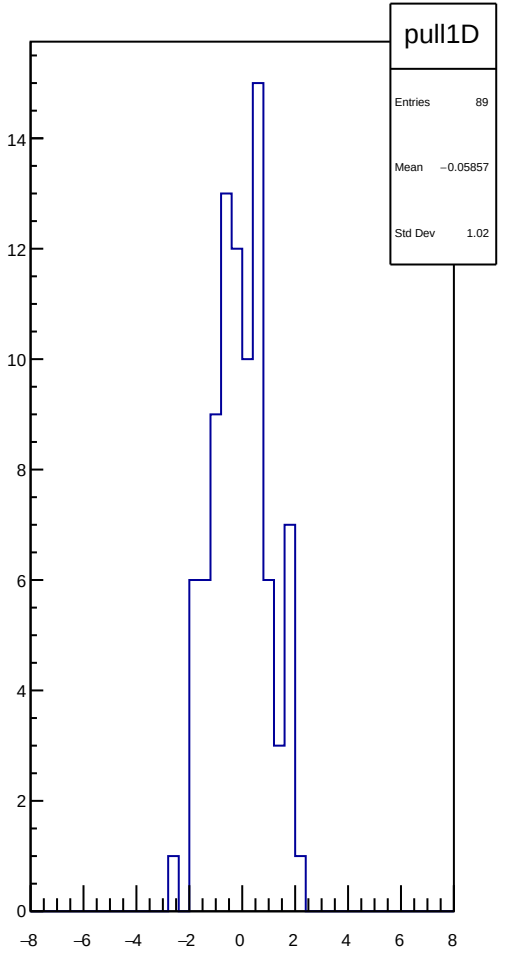

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.302e+05 / 88
p0 417.5 ± 0.324
650
600
550
500
450
400
350
300

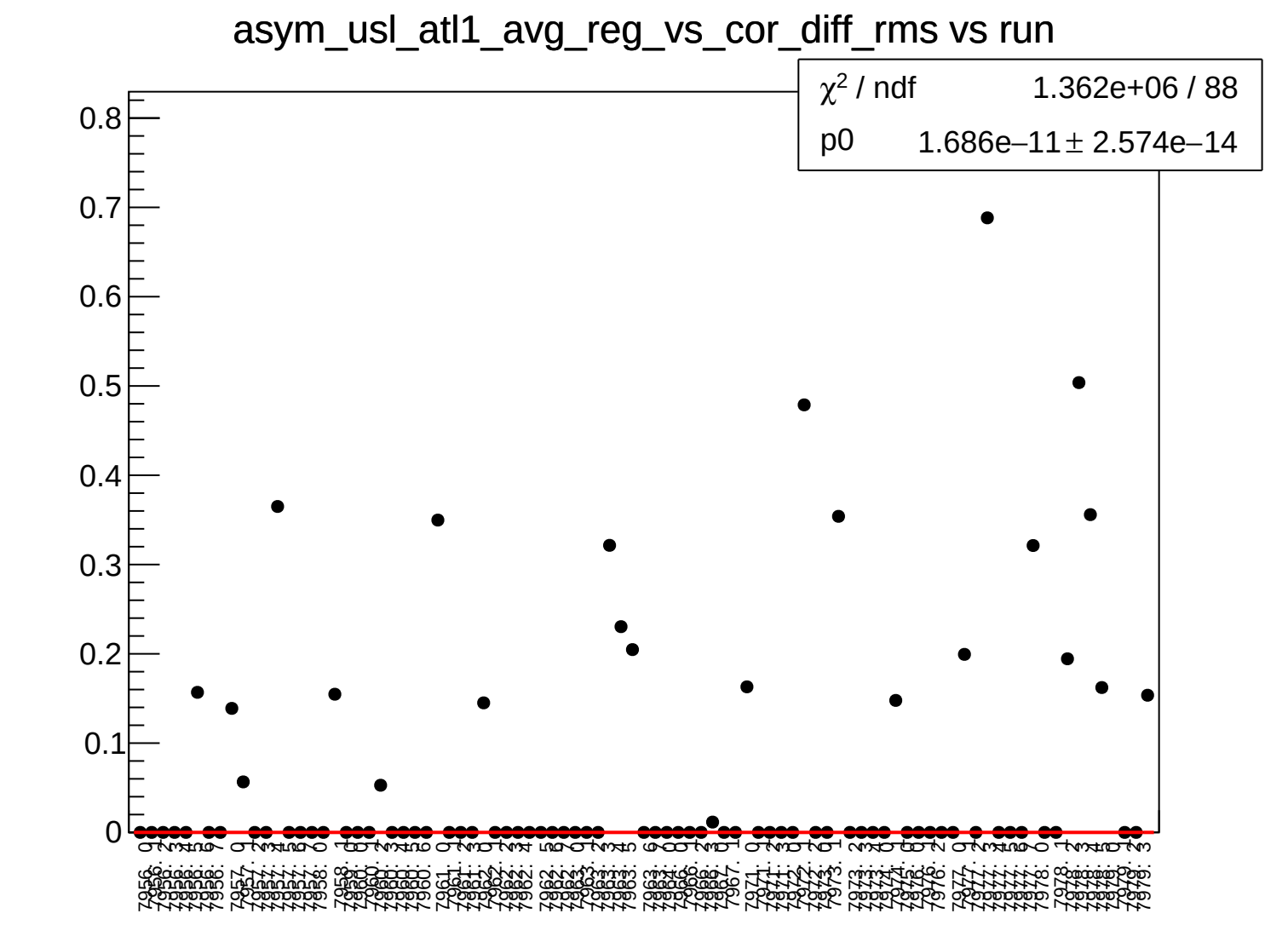

asym_usl_atl1_avg_mean vs run
χ² / ndf 77.74 / 88
p0 −4831 ± 1614
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −123.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

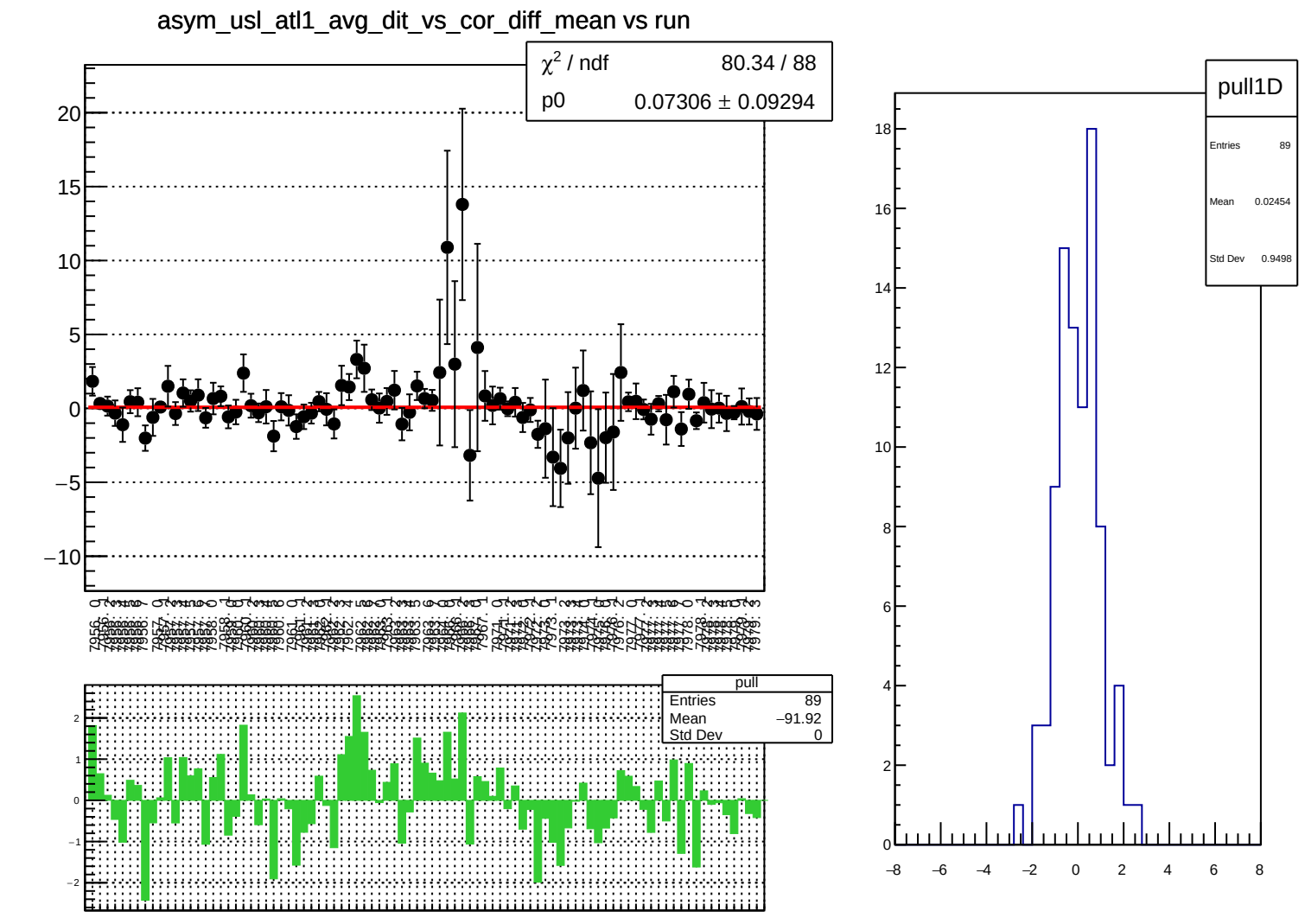

pull1D
Entries 89
Mean −0.01157
Std Dev 0.9345
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

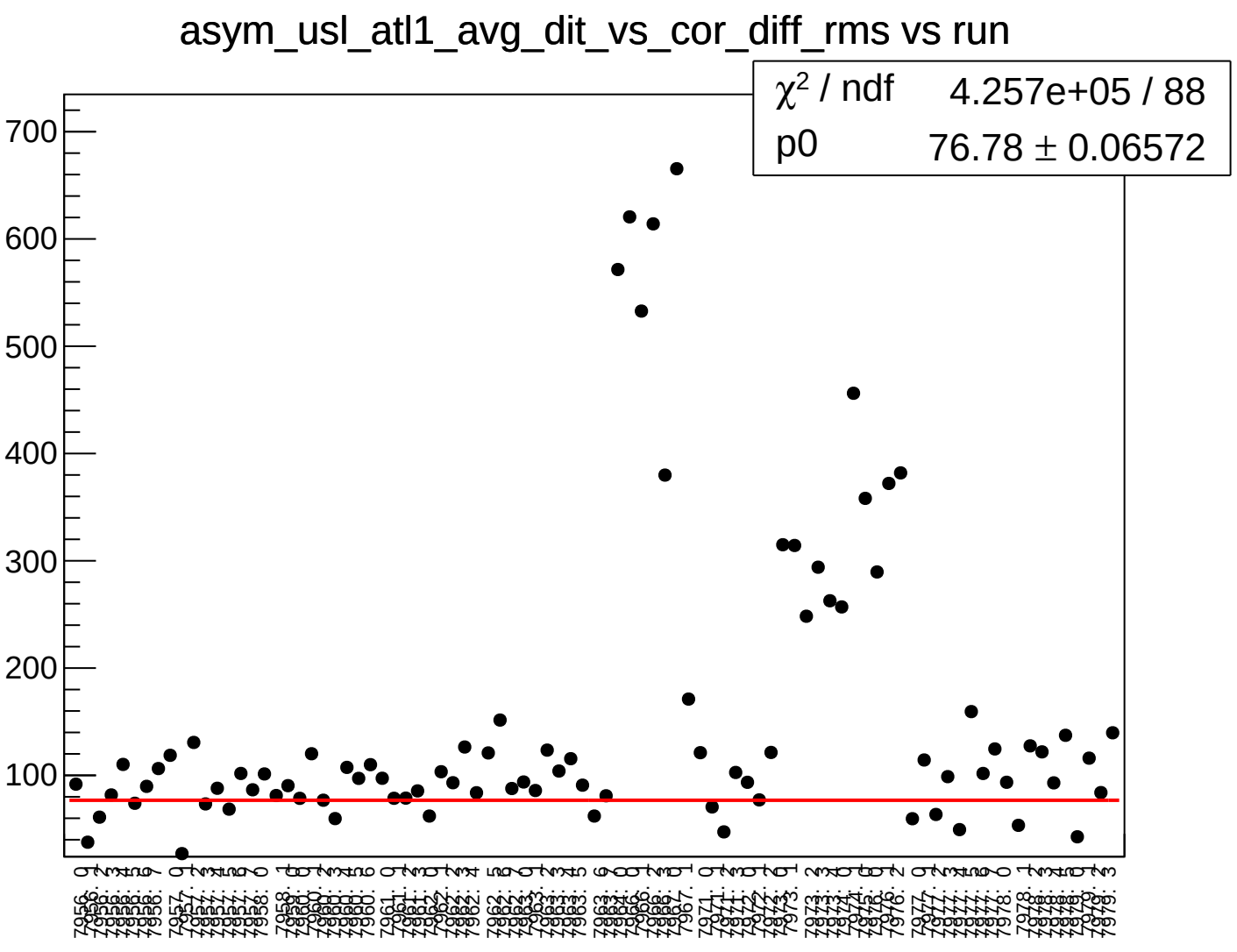

asym_usl_atl1_avg_rms vs run
χ² / ndf 1552 / 88
p0 1527 ± 1.142
1750
1700
1650
1600
1550
1500
1450

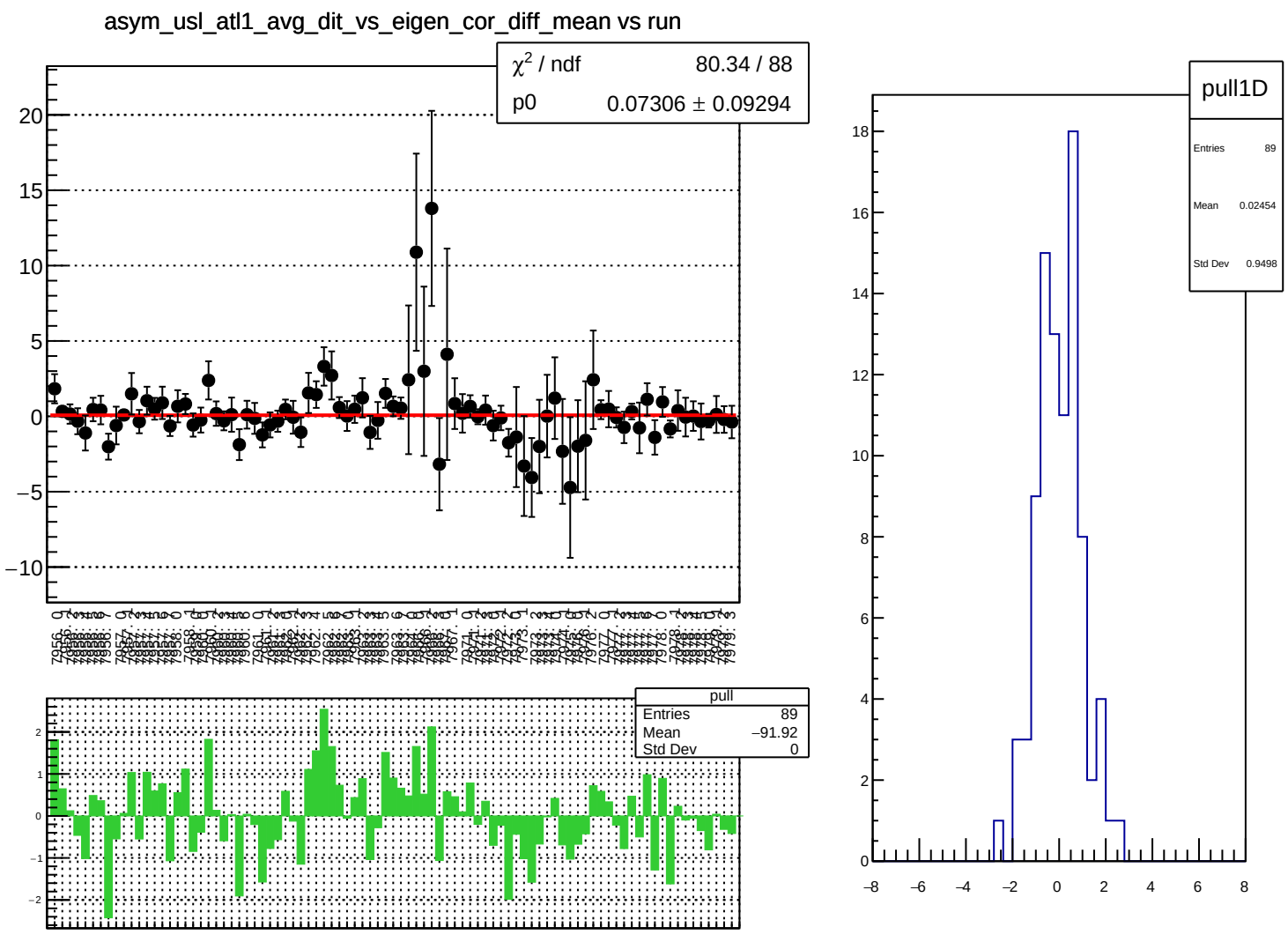

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.84 / 88
p0 8.725e−15 ± 3.64e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 66.97
Std Dev 0
2
1
0
−1
−2

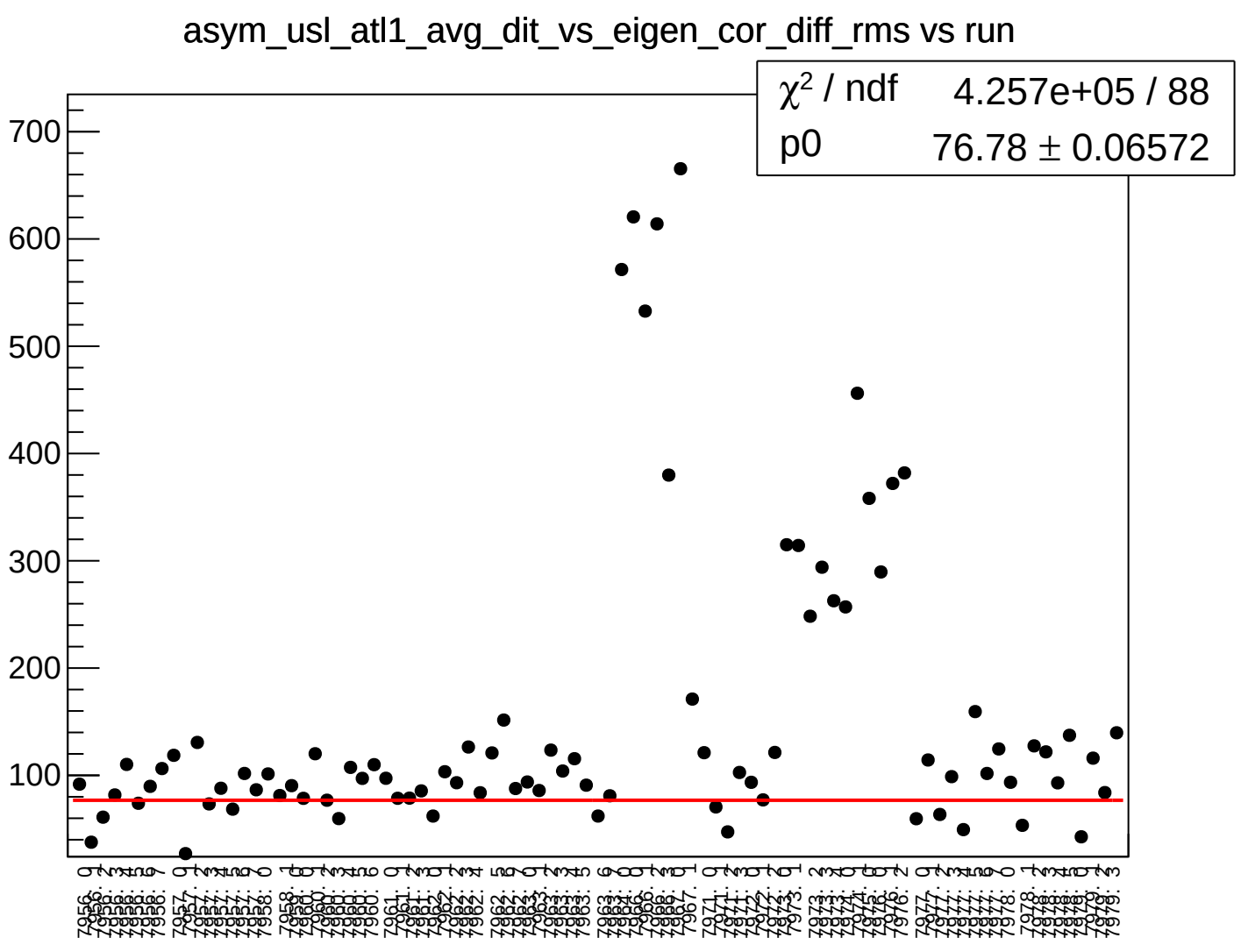

pull1D
Entries 89
Mean −0.05857
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

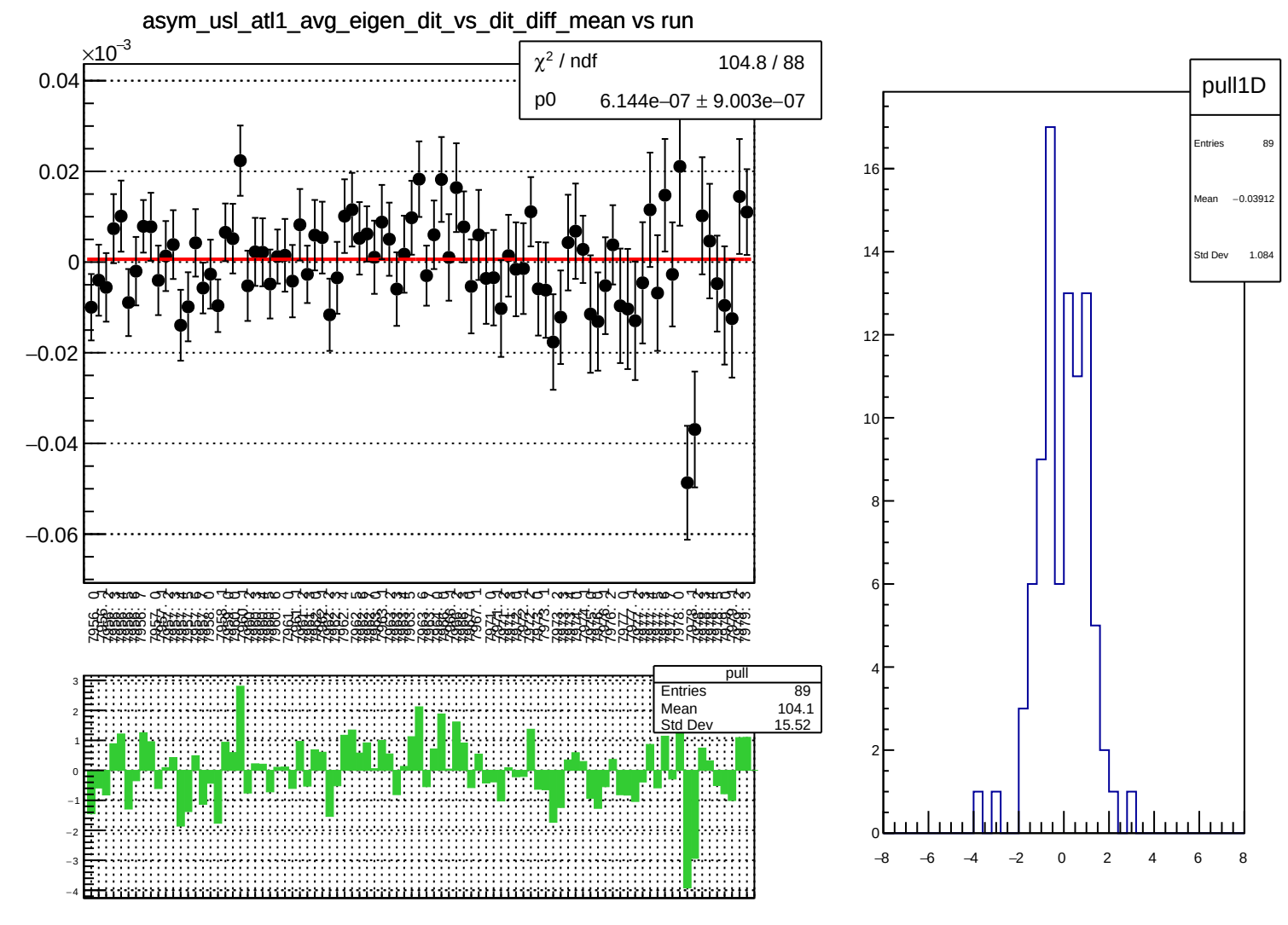

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.362e+06 / 88
p0 1.686e−11 ± 2.574e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

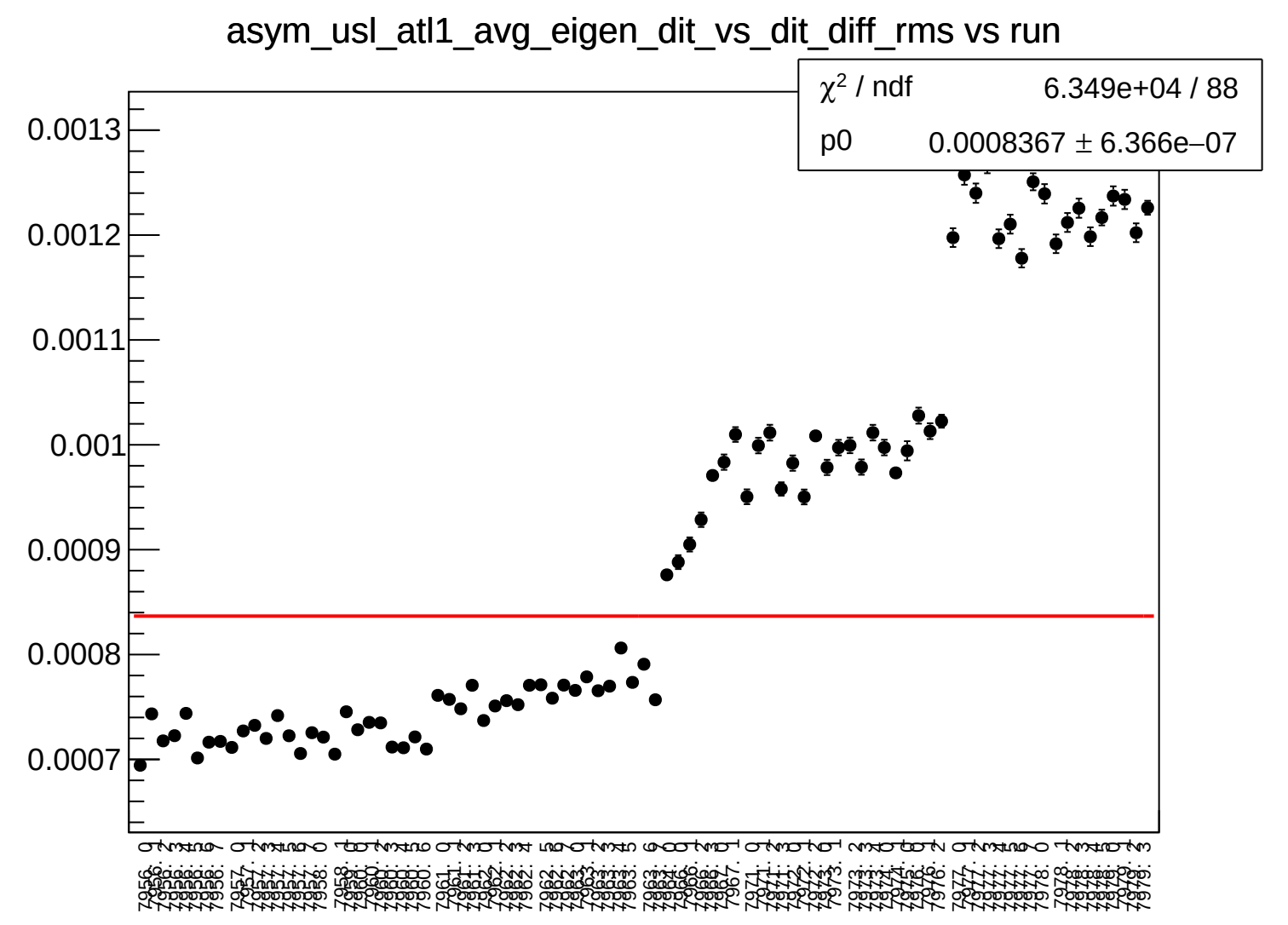

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.34 / 88
p0 0.07306 ± 0.09294
pull
Entries 89
Mean −91.92
Std Dev 0
pull1D
Entries 89
Mean 0.02454
Std Dev 0.9498

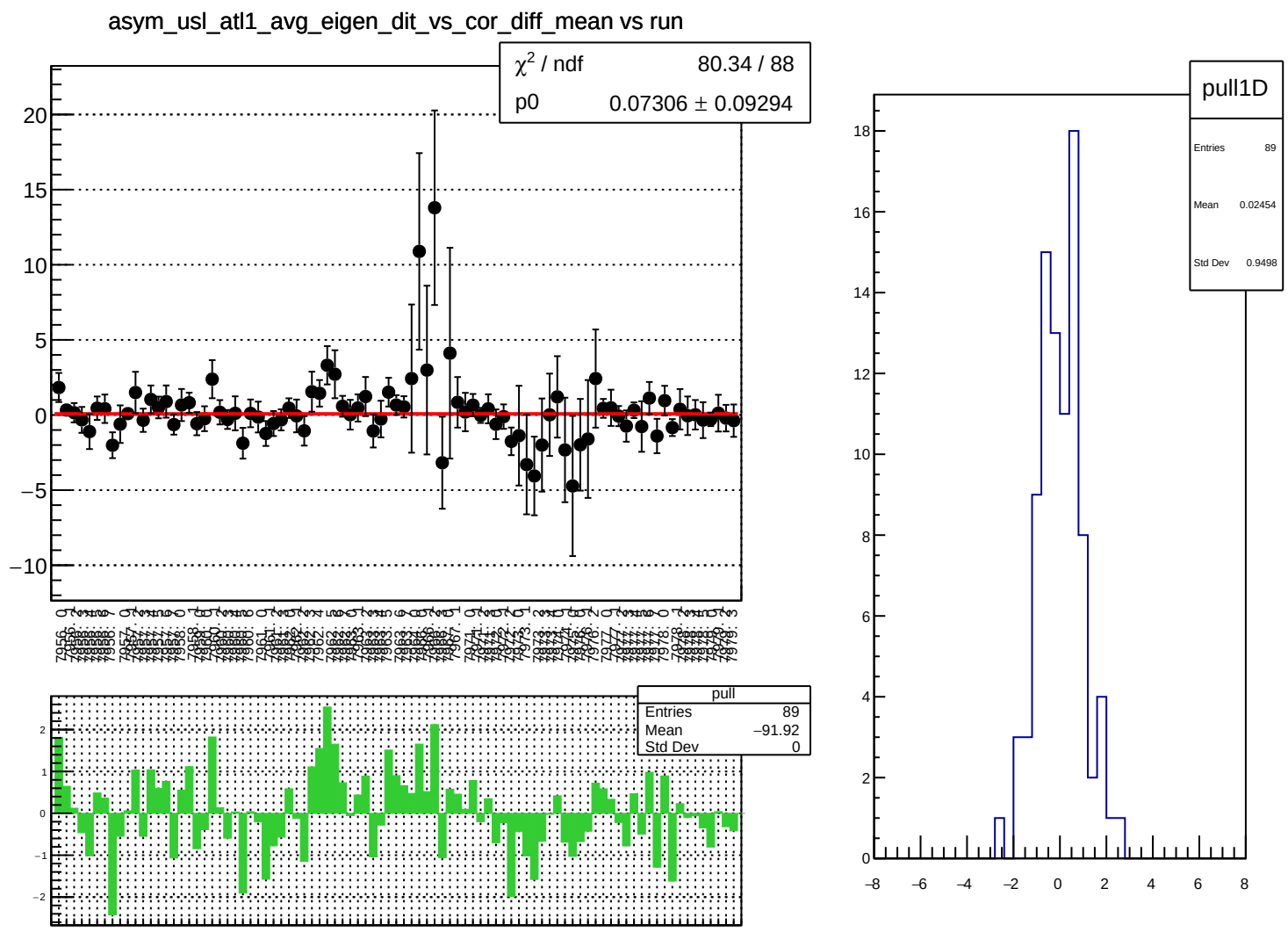

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.257e+05 / 88
p0 76.78 ± 0.06572
700
600
500
400
300
200
100

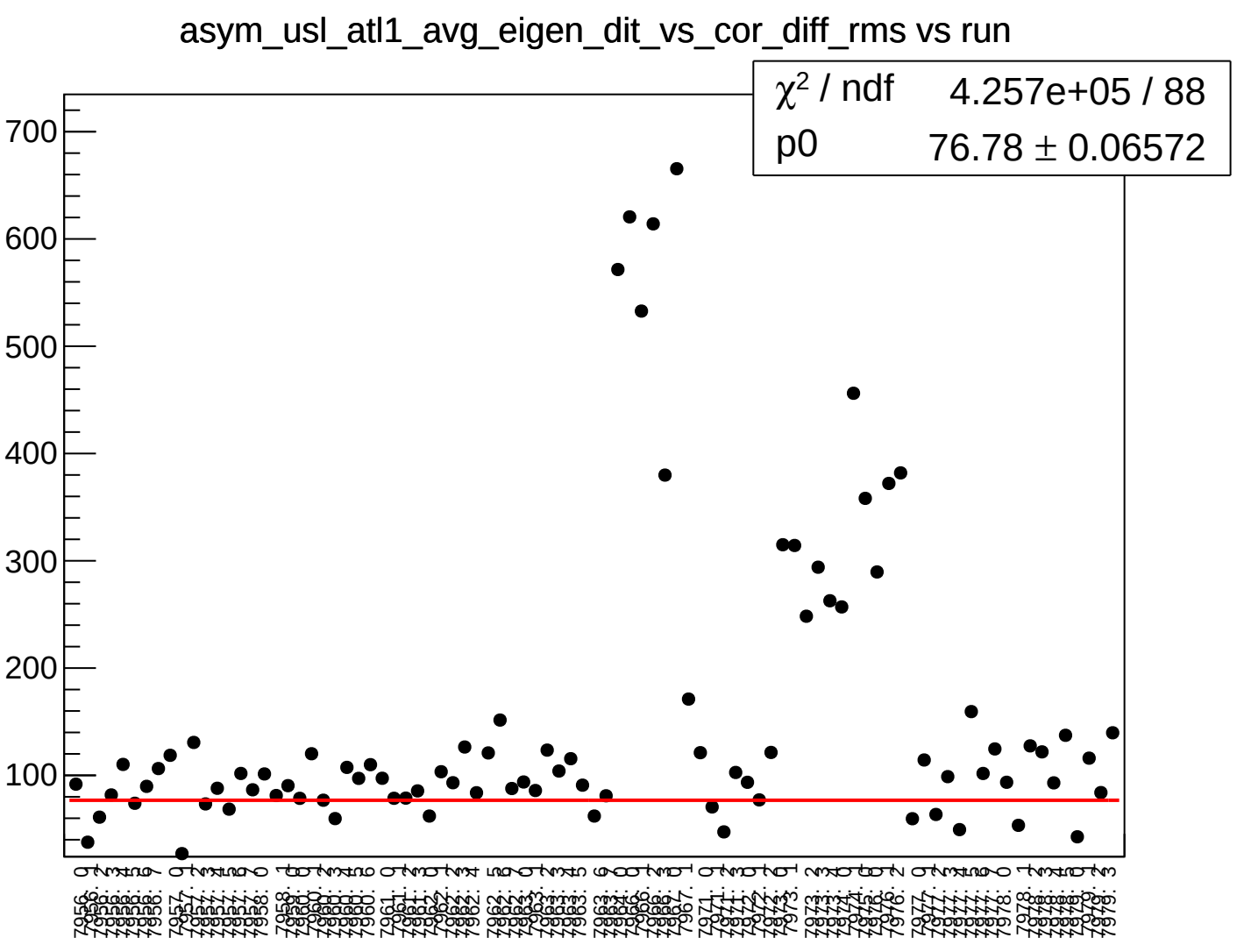

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.34 / 88
p0 0.07306 ± 0.09294
pull
Entries 89
Mean −91.92
Std Dev 0
pull1D
Entries 89
Mean 0.02454
Std Dev 0.9498

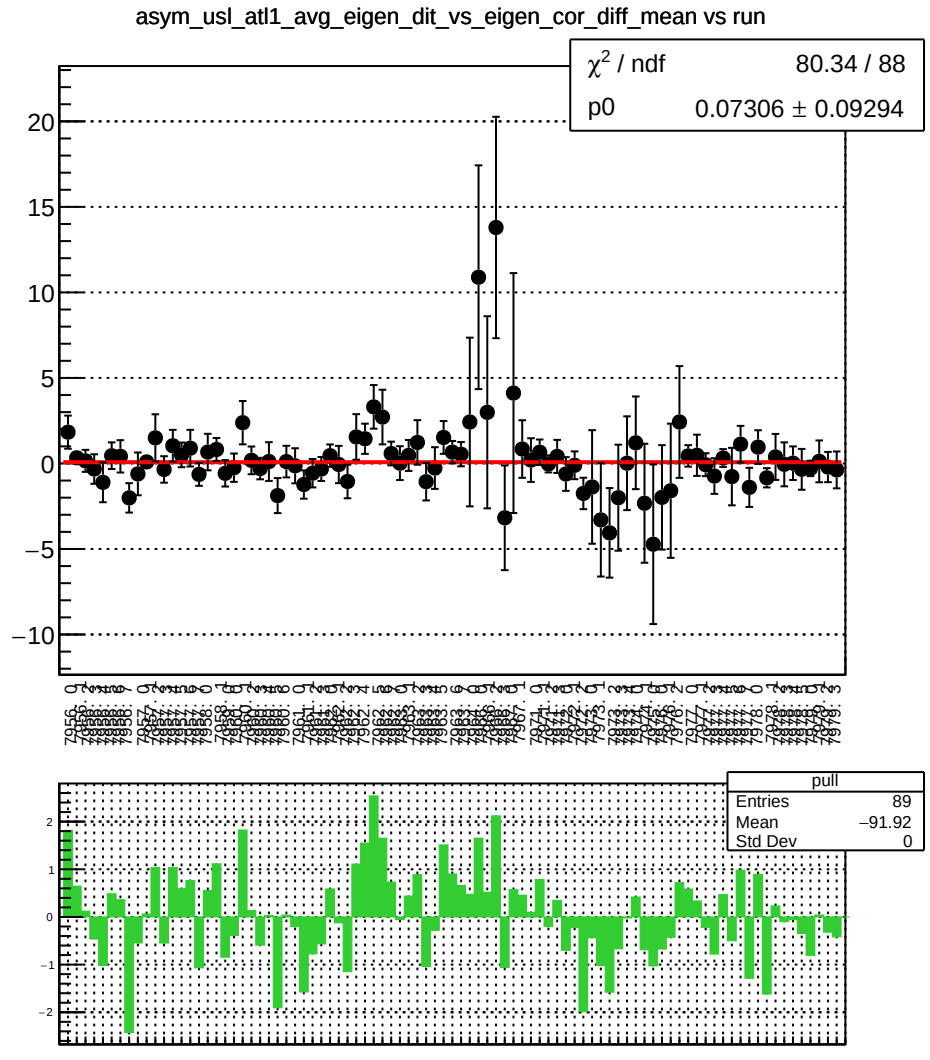

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.257e+05 / 88
p0 76.78 ± 0.06572
700
600
500
400
300
200
100

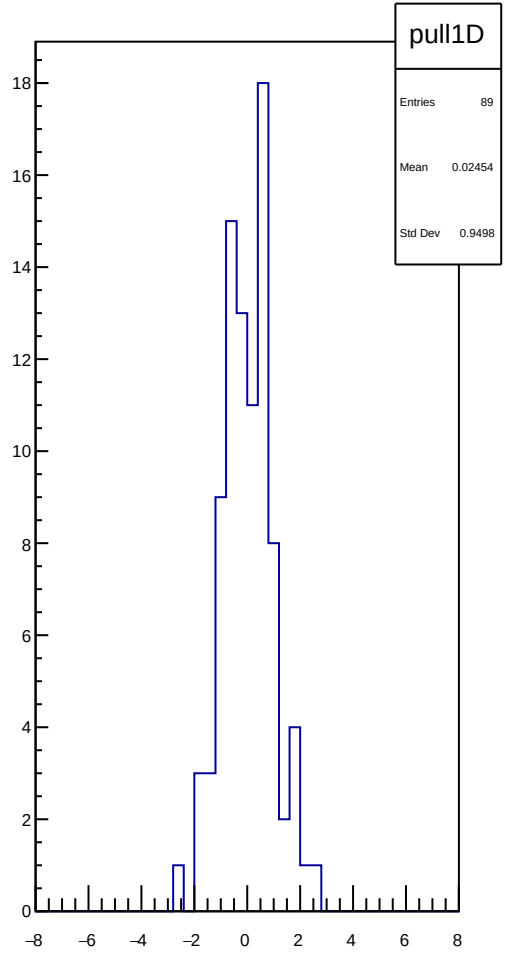

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.8 / 88
p0 6.144e−07 ± 9.003e−07
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 104.1
Std Dev 15.52
pull1D
Entries 89
Mean −0.03912
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

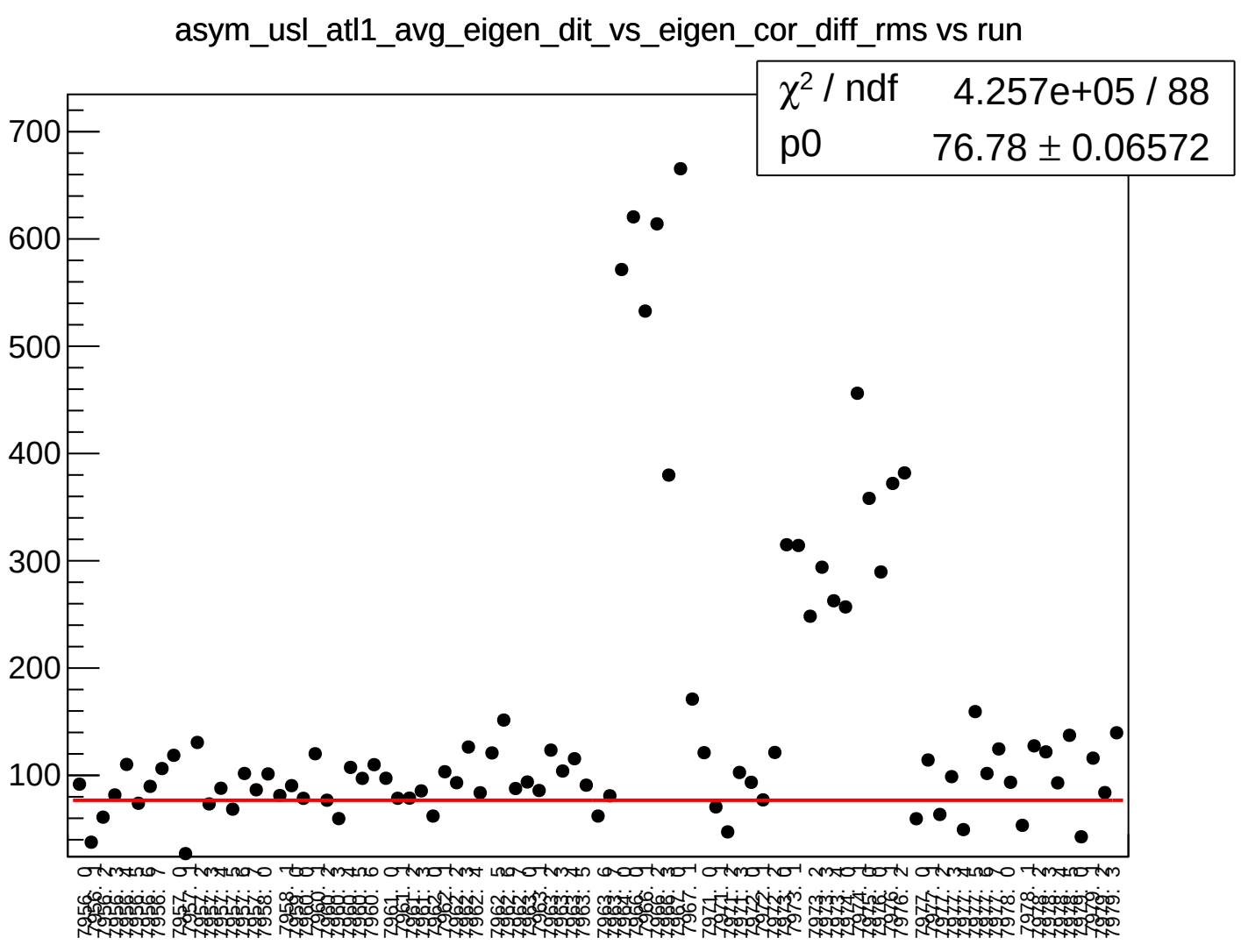

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.349e+04 / 88
p0 0.0008367 ± 6.366e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007

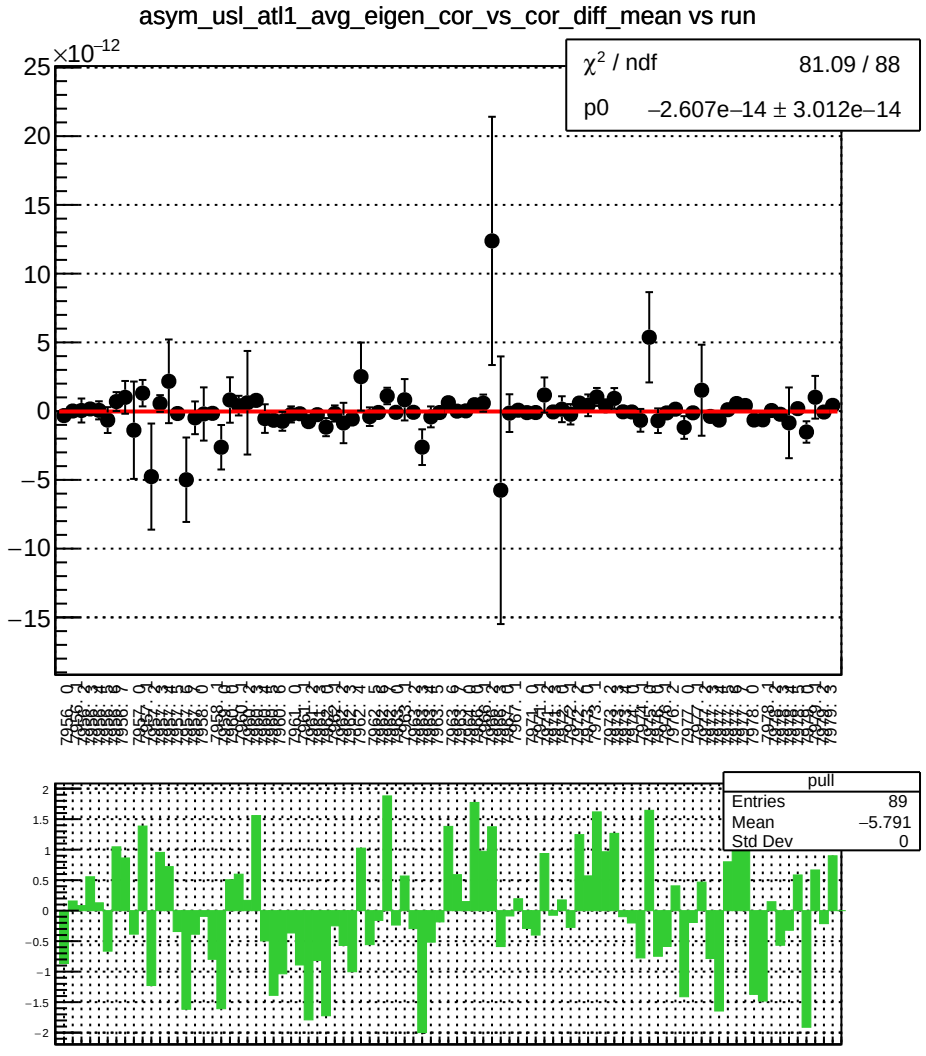

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.34 / 88
p0 0.07306 ± 0.09294
pull
Entries 89
Mean −91.92
Std Dev 0
pull1D
Entries 89
Mean 0.02454
Std Dev 0.9498

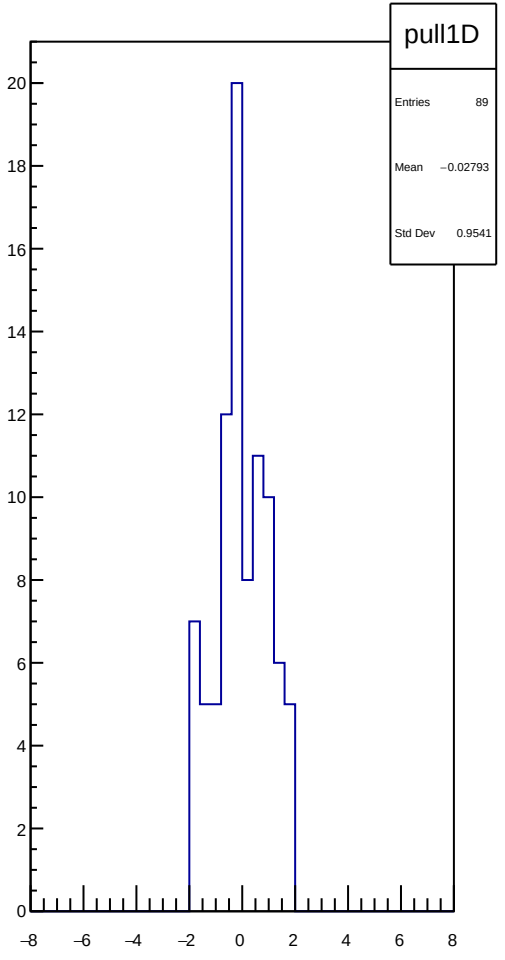

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.257e+05 / 88
p0 76.78 ± 0.06572
700
600
500
400
300
200
100

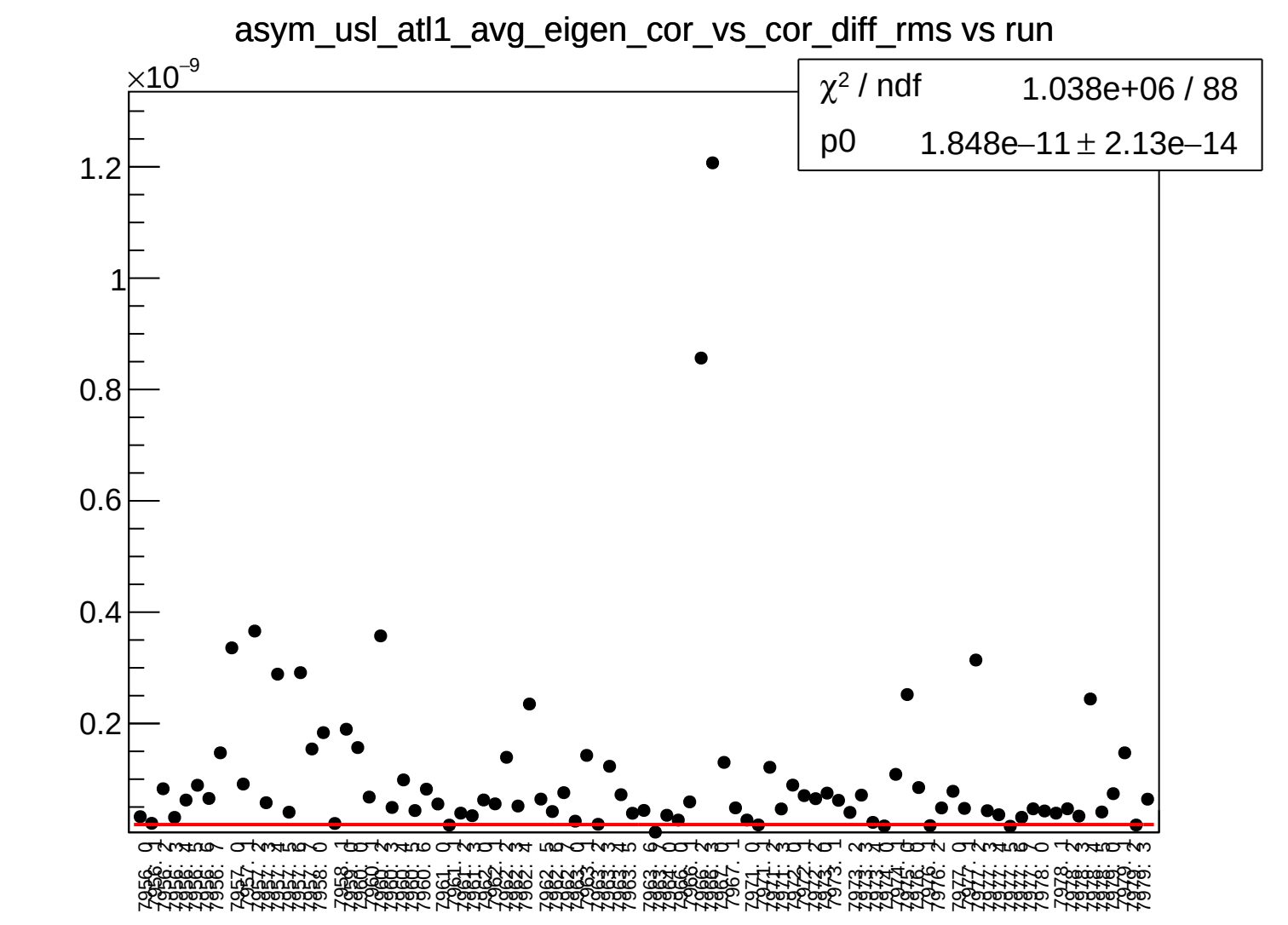

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.34 / 88
p0 0.07306 ± 0.09294
pull
Entries 89
Mean −91.92
Std Dev 0

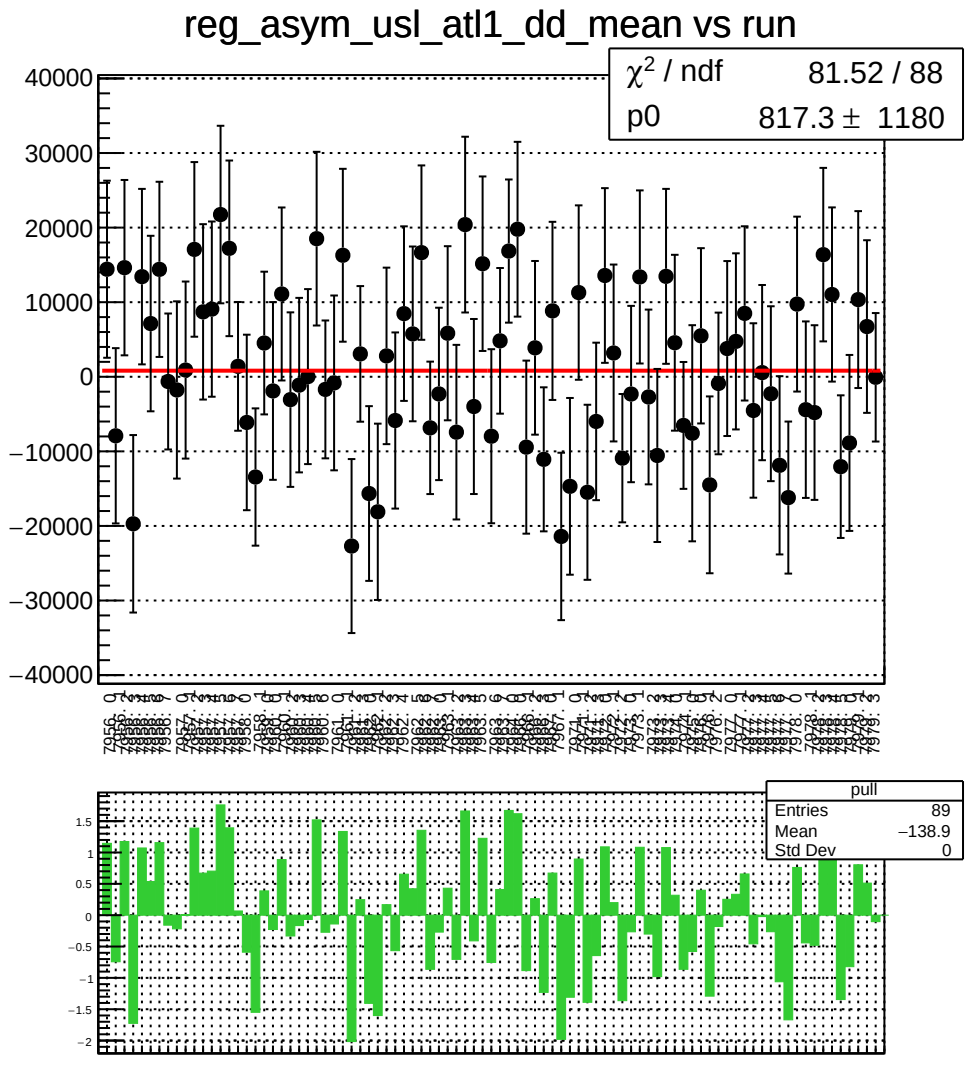

pull1D
Entries 89
Mean 0.02454
Std Dev 0.9498

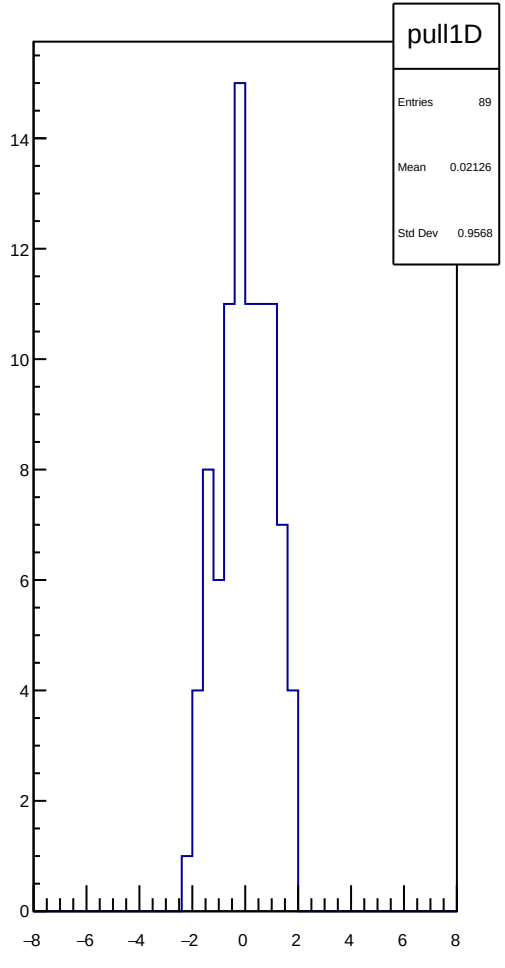

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.257e+05 / 88
p0 76.78 ± 0.06572
700
600
500
400
300
200
100

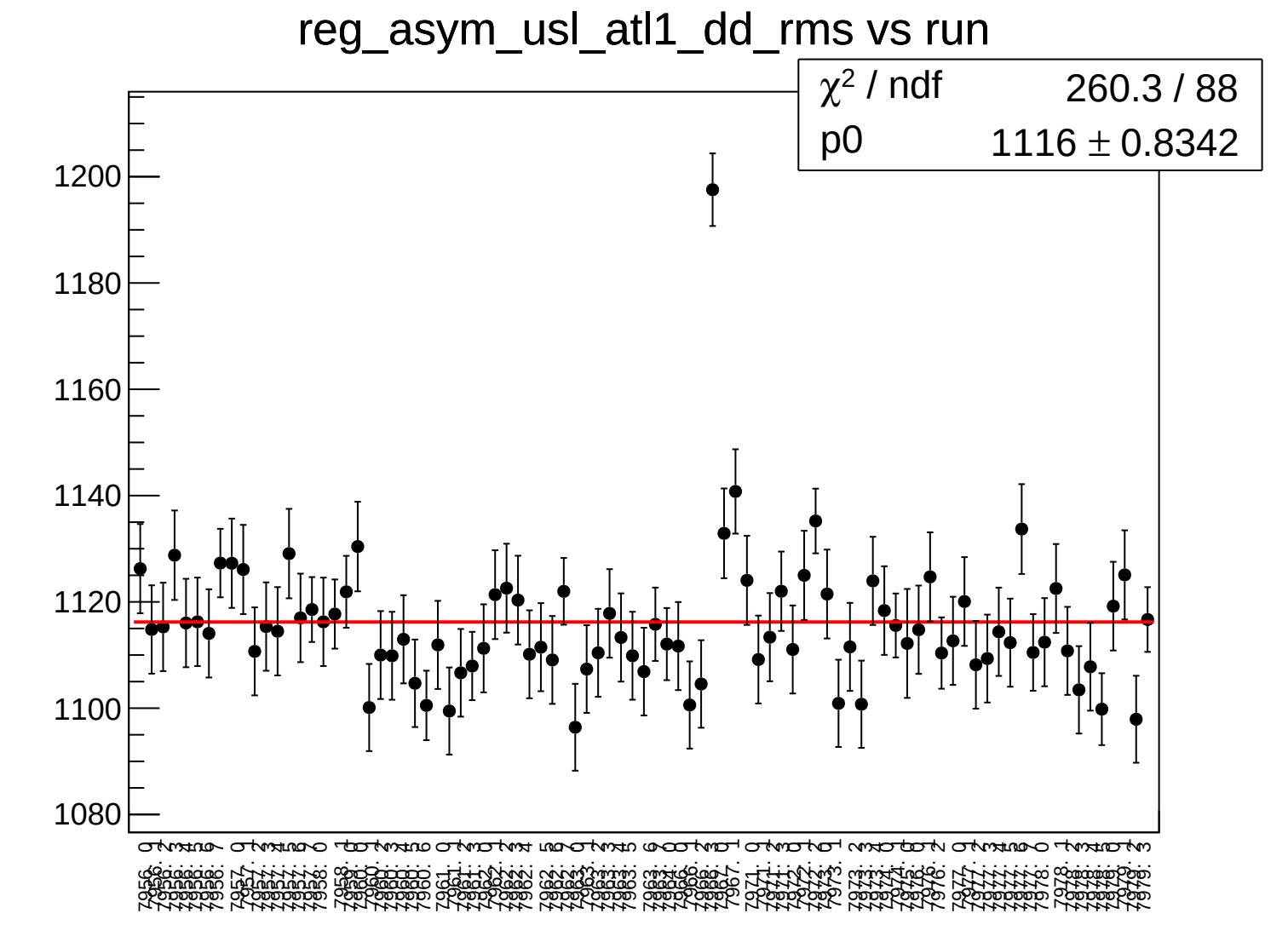

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.09 / 88
p0 −2.607e−14 ± 3.012e−14
pull
Entries 89
Mean −5.791
Std Dev 0

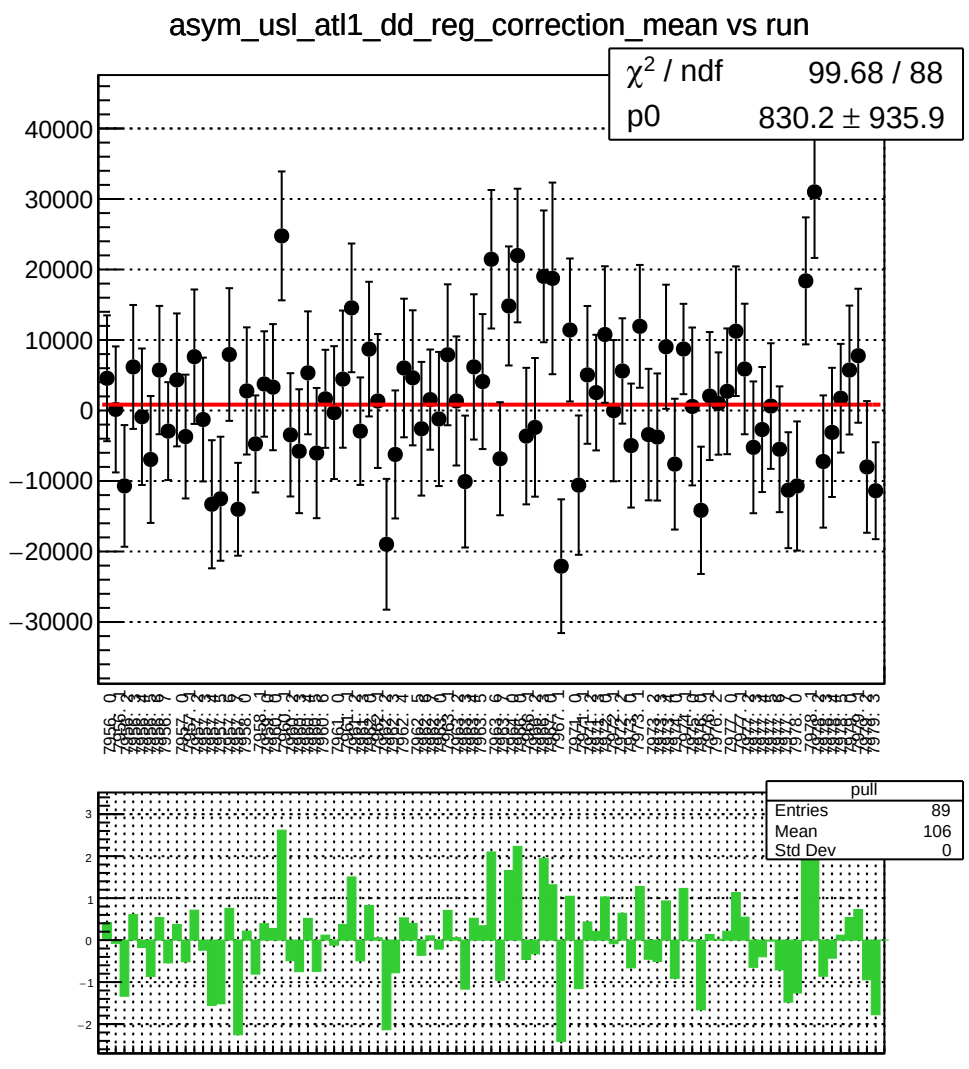

pull1D
Entries 89
Mean −0.02793
Std Dev 0.9541

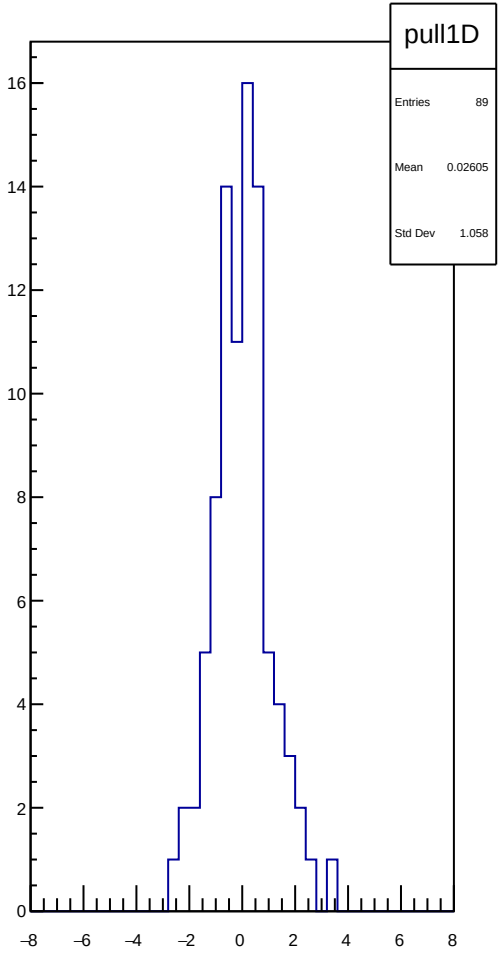

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.038e+06 / 88
p0 1.848e−11 ± 2.13e−14
1.2
1
0.8
0.6
0.4
0.2

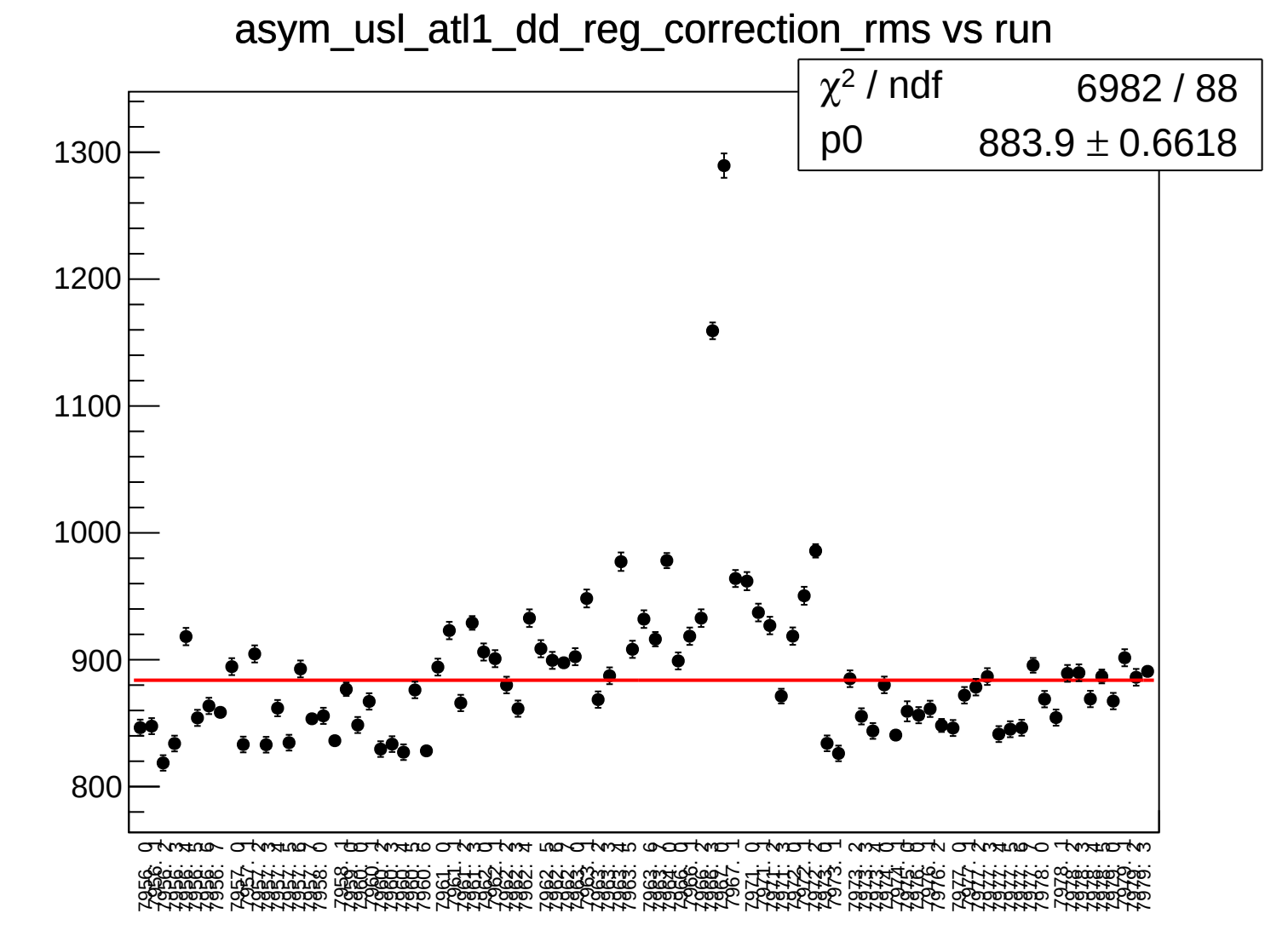

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 81.52 / 88
p0 817.3 ± 1180
pull
Entries 89
Mean −138.9
Std Dev 0

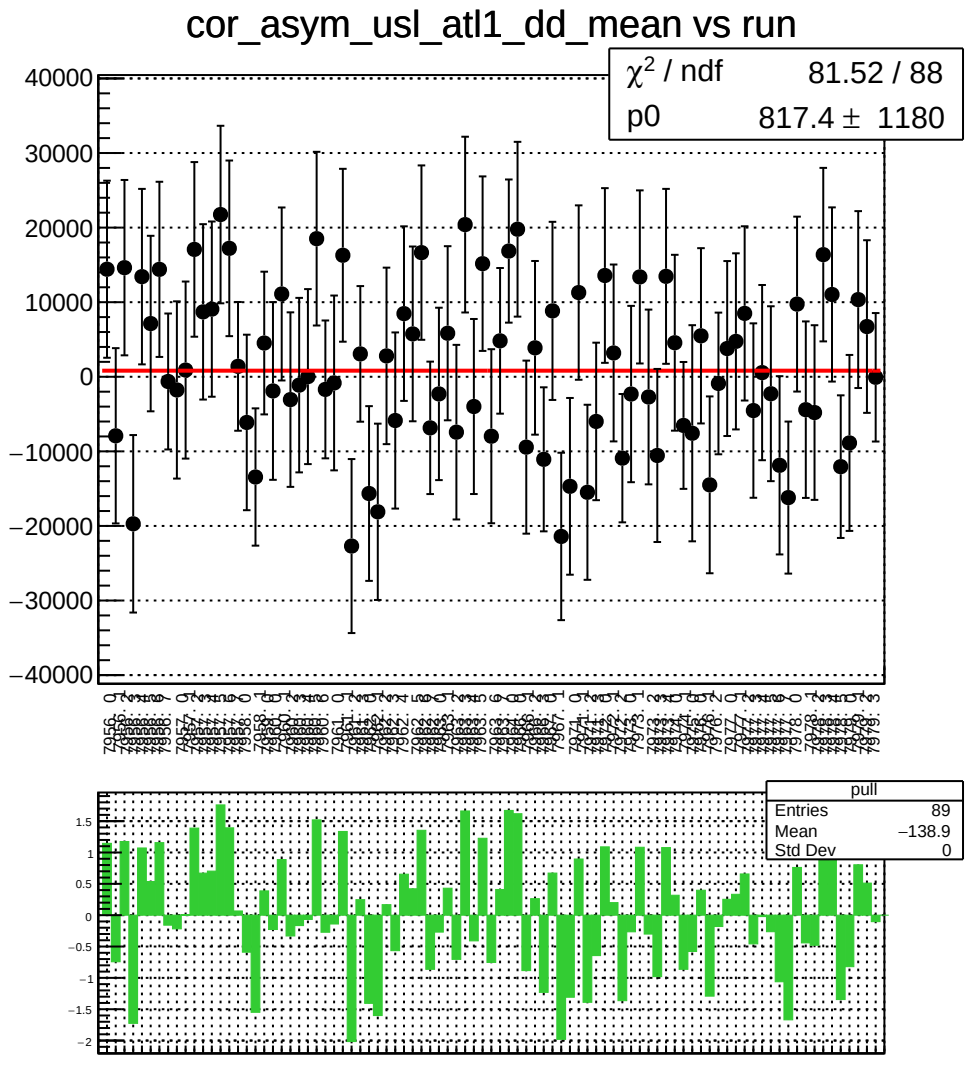

pull1D
Entries 89
Mean 0.02126
Std Dev 0.9568

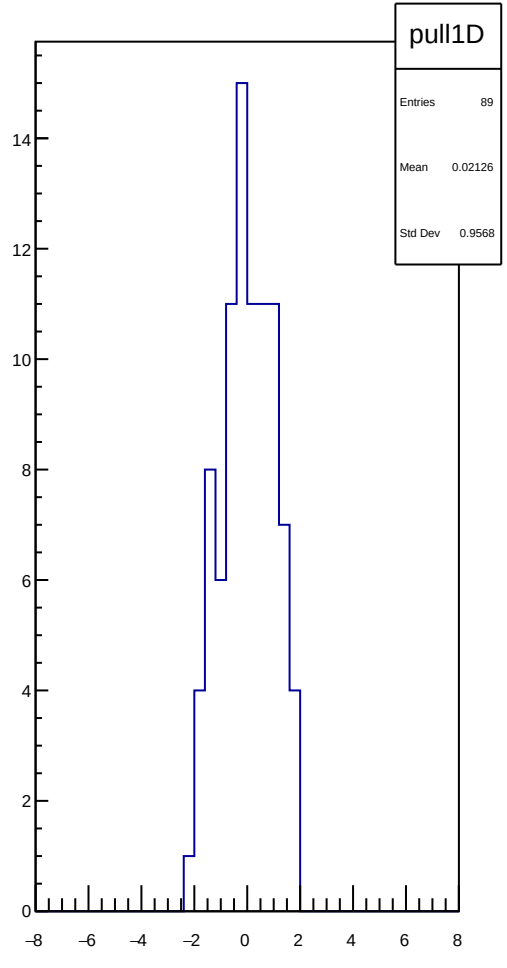

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 260.3 / 88
p0 1116 ± 0.8342
1200
1180
1160
1140
1120
1100
1080

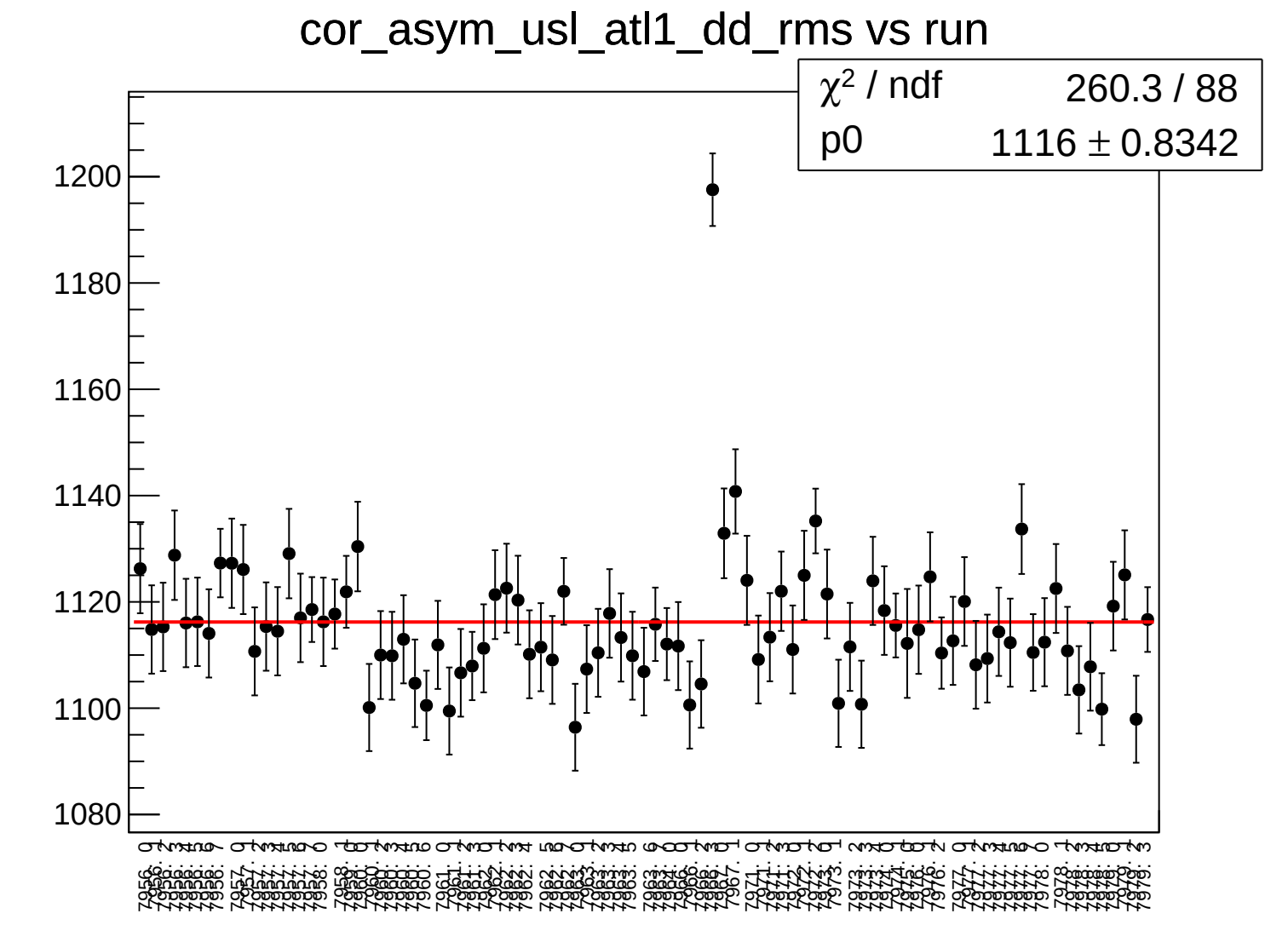

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 99.68 / 88
p0 830.2 ± 935.9
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 106
Std Dev 0
3
2
1
0
−1
−2

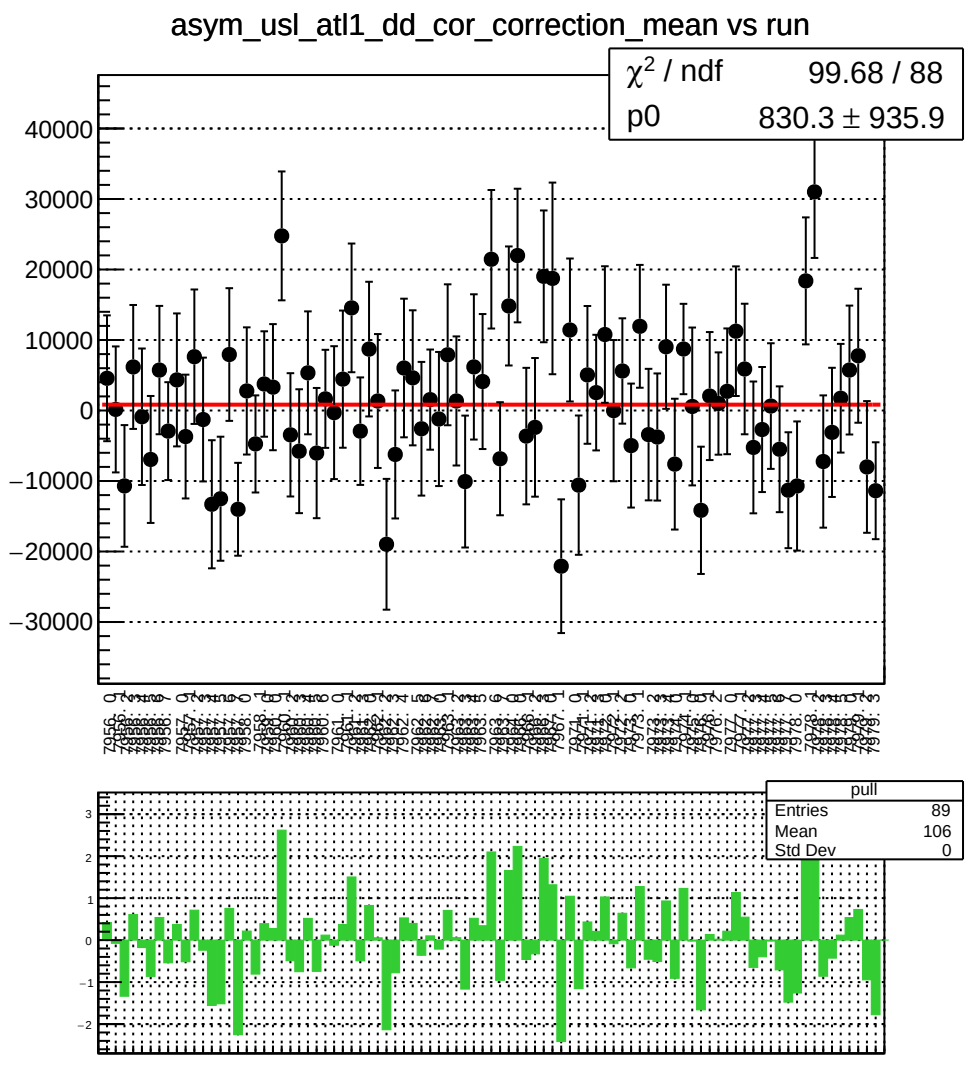

pull1D
Entries 89
Mean 0.02605
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

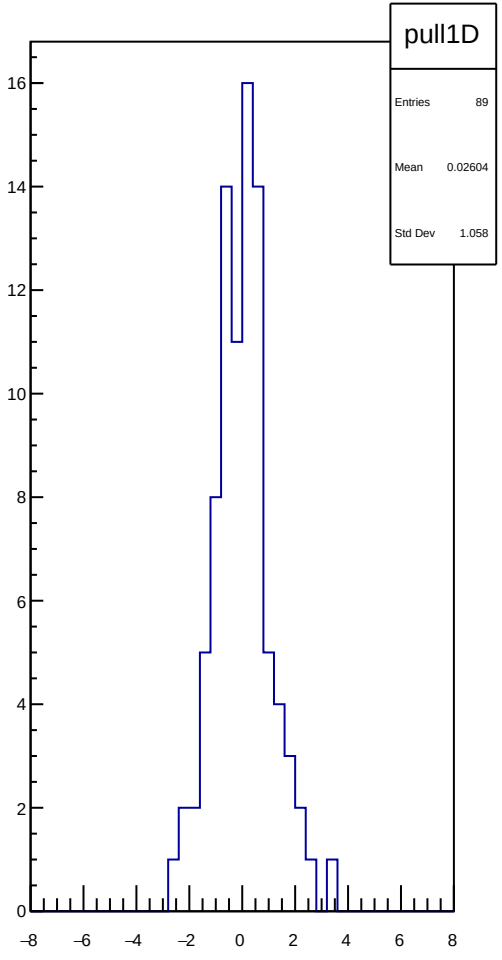

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 6982 / 88
p0 883.9 ± 0.6618
1300
1200
1100
1000
900
800

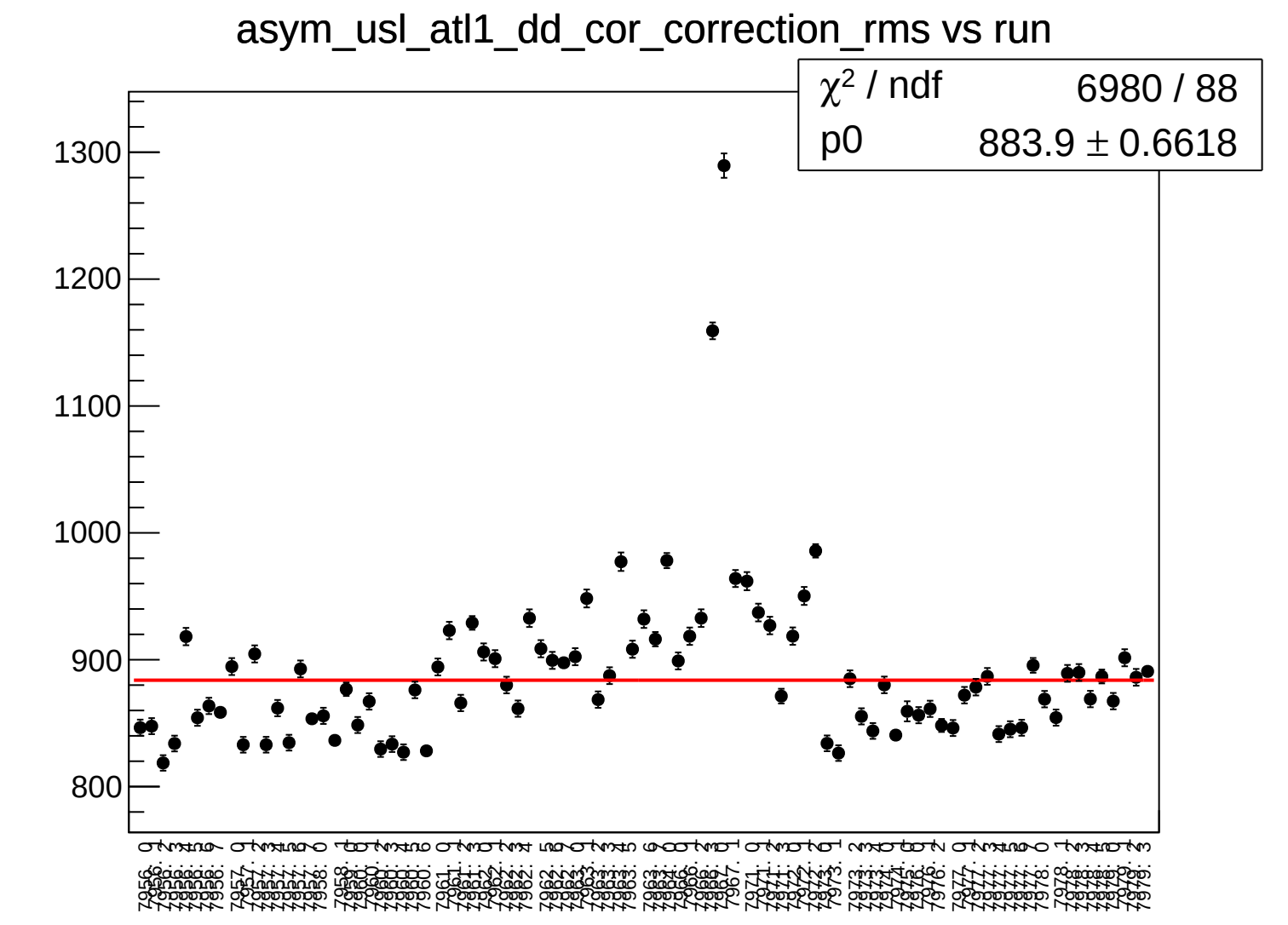

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 81.52 / 88
p0 817.4 ± 1180
pull
Entries 89
Mean −138.9
Std Dev 0

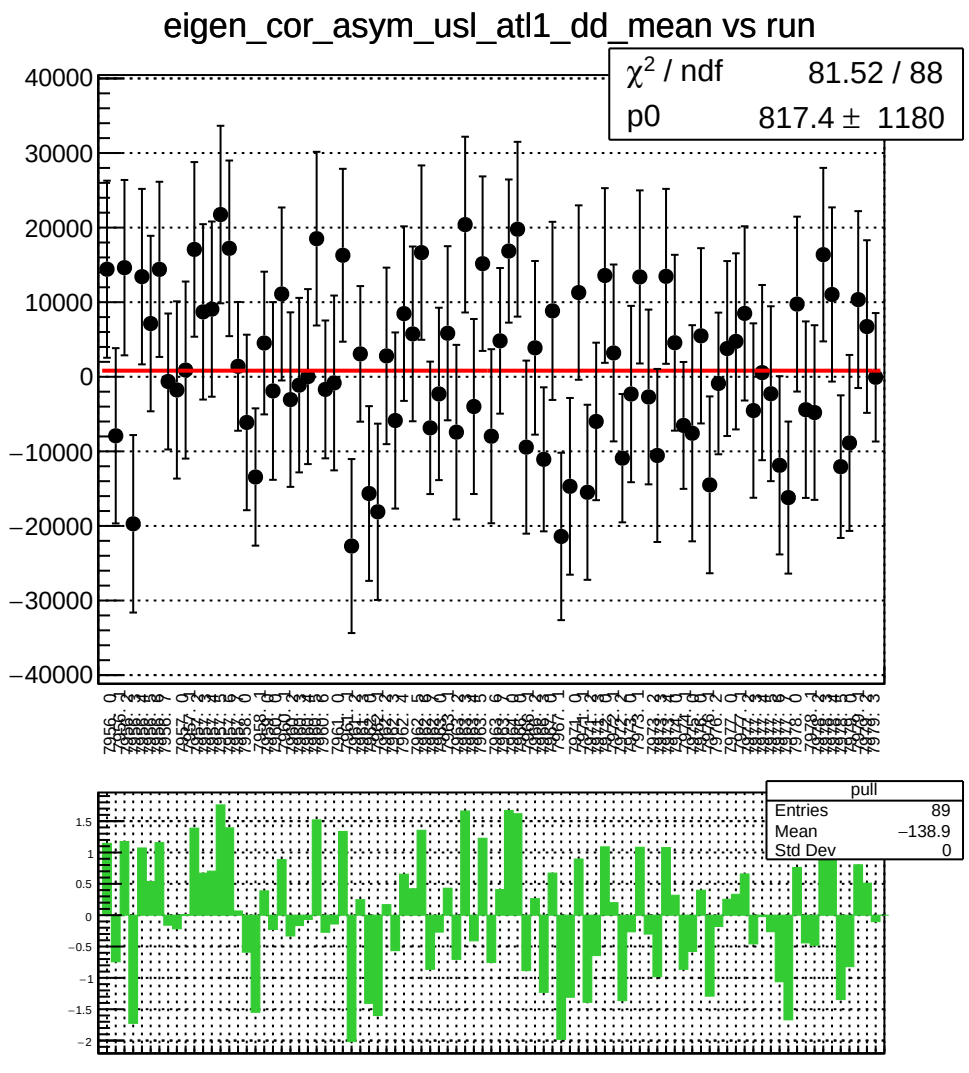

pull1D
Entries 89
Mean 0.02126
Std Dev 0.9568

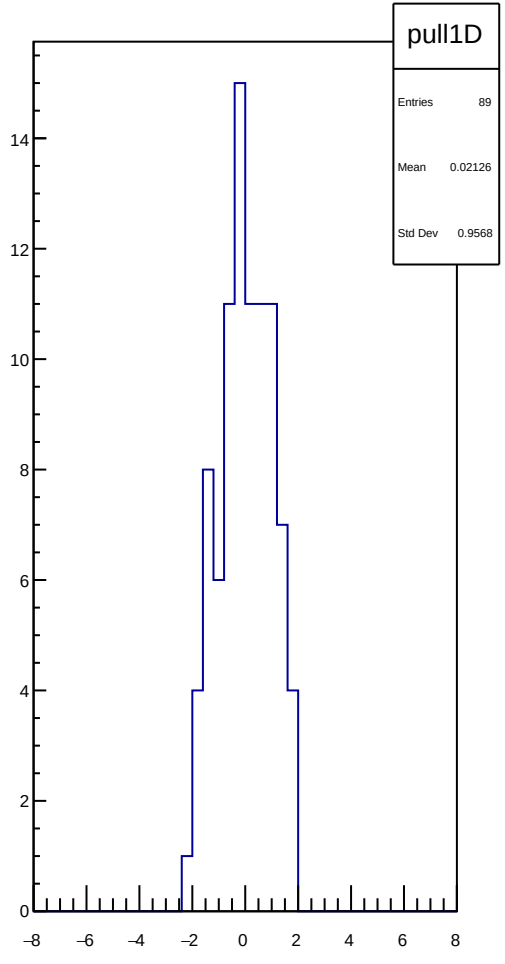

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 260.3 / 88
p0 1116 ± 0.8342
1200
1180
1160
1140
1120
1100
1080

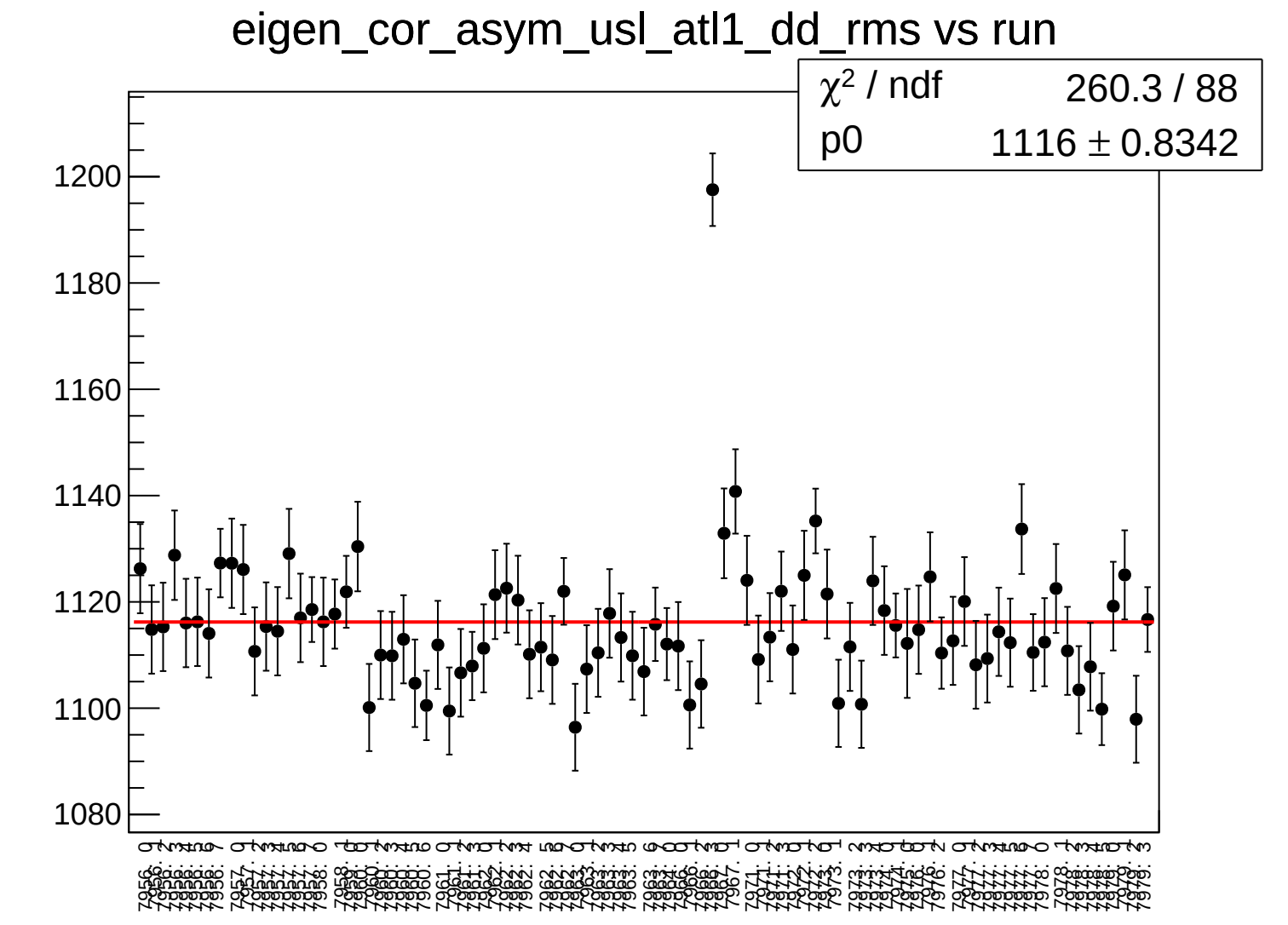

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 99.68 / 88
p0 830.3 ± 935.9
pull
Entries 89
Mean 106
Std Dev 0

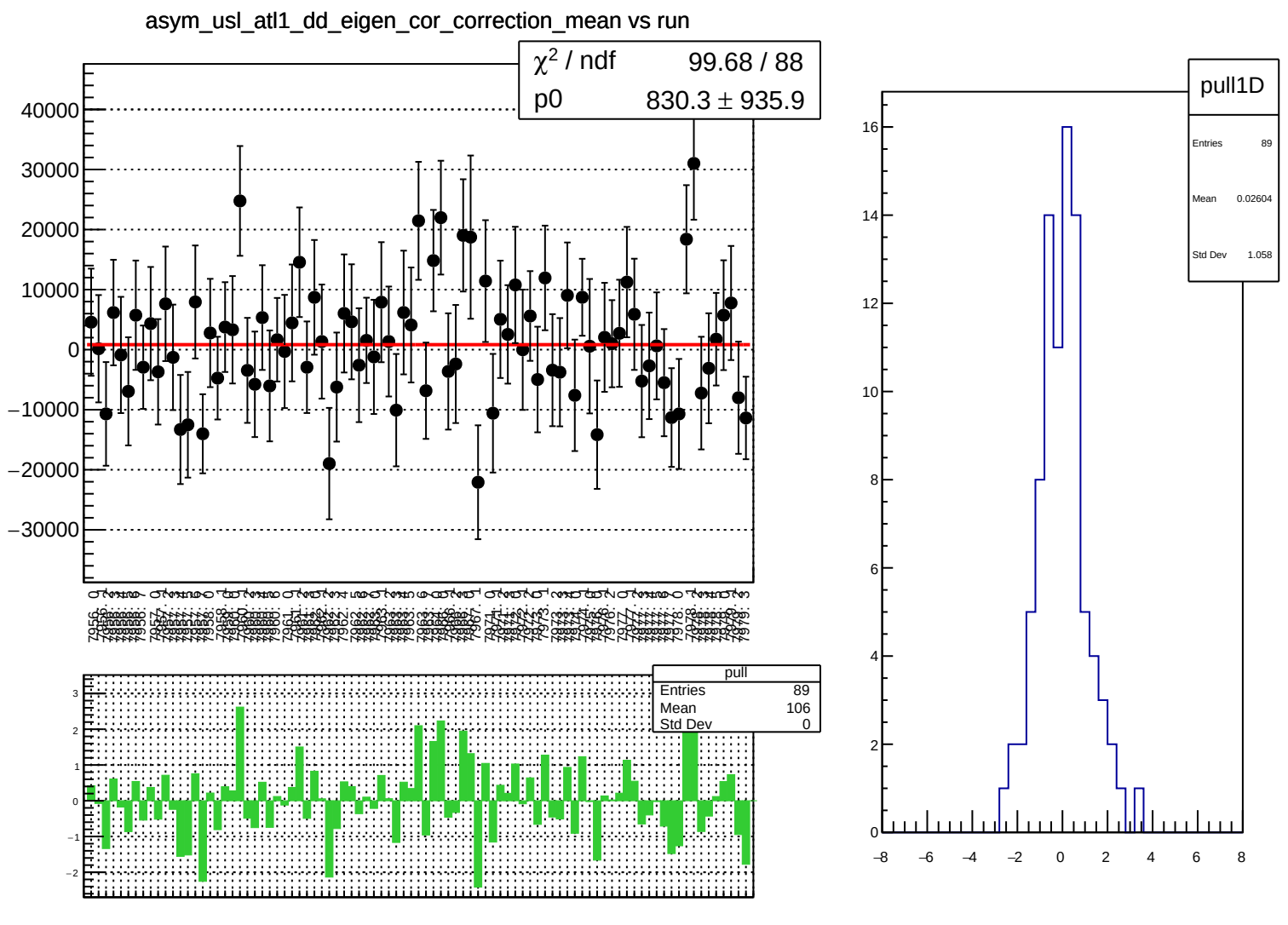

pull1D
Entries 89
Mean 0.02604
Std Dev 1.058

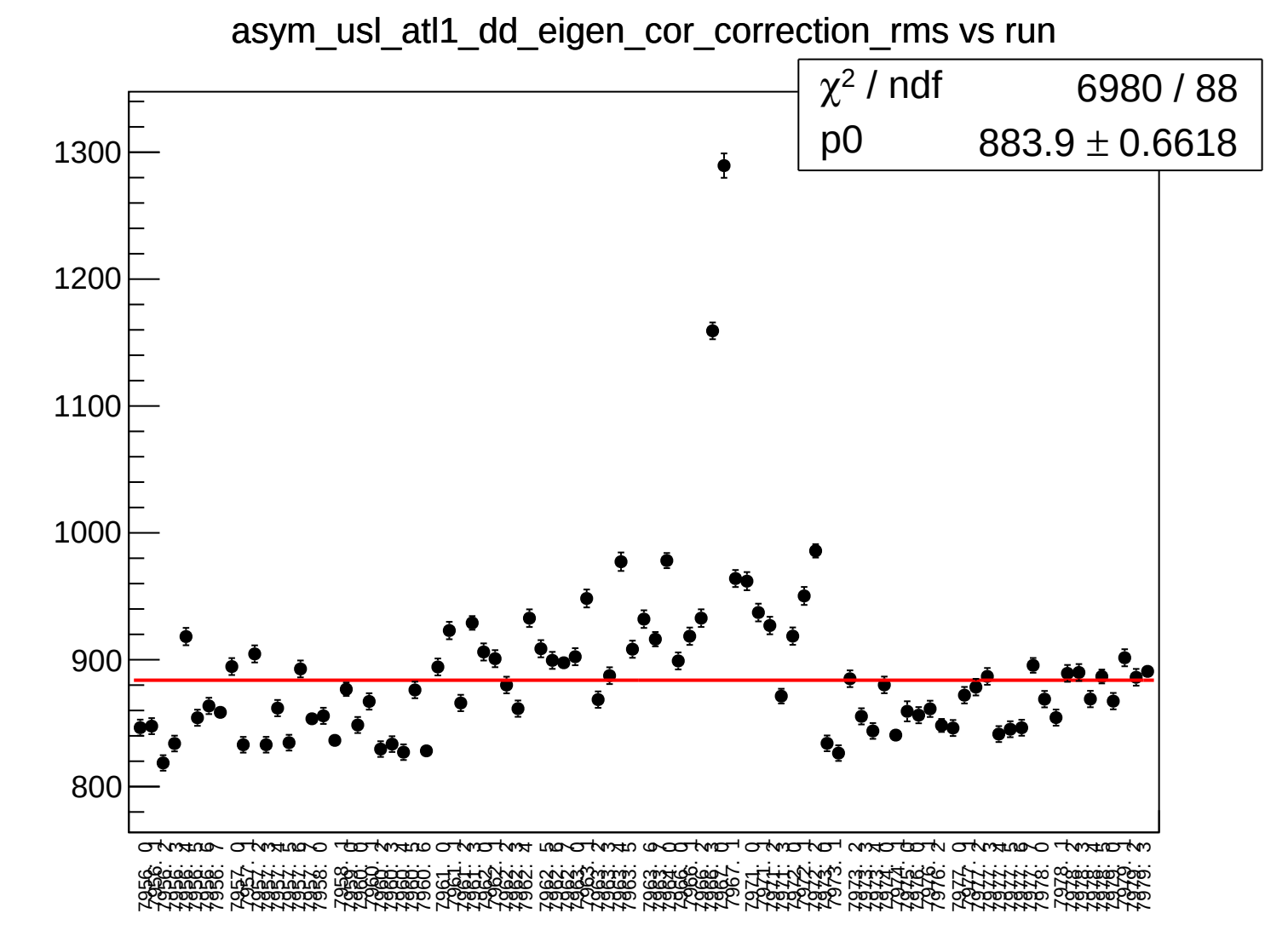

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 6980 / 88
p0 883.9 ± 0.6618
1300
1200
1100
1000
900
800

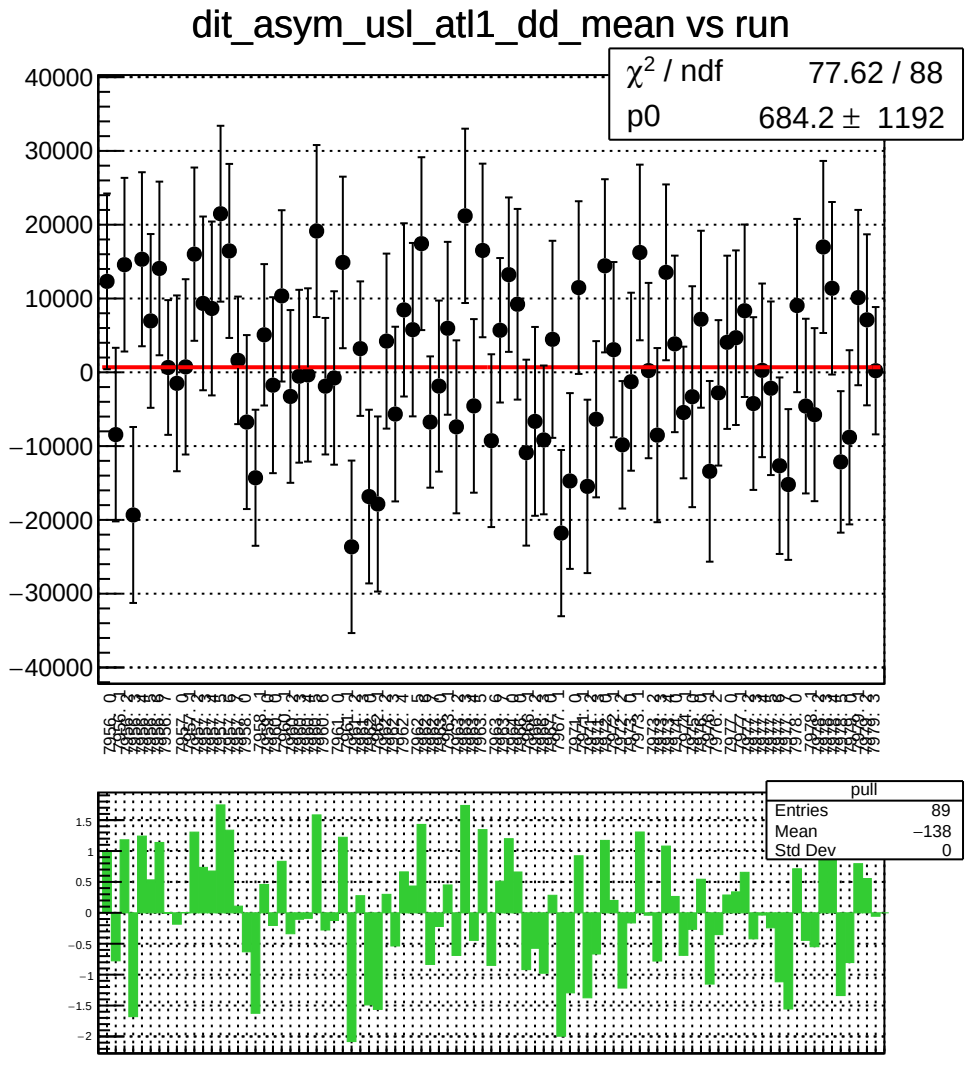

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 81.52 / 88
p0 817.4 ± 1180
pull
Entries 89
Mean −138.9
Std Dev 0

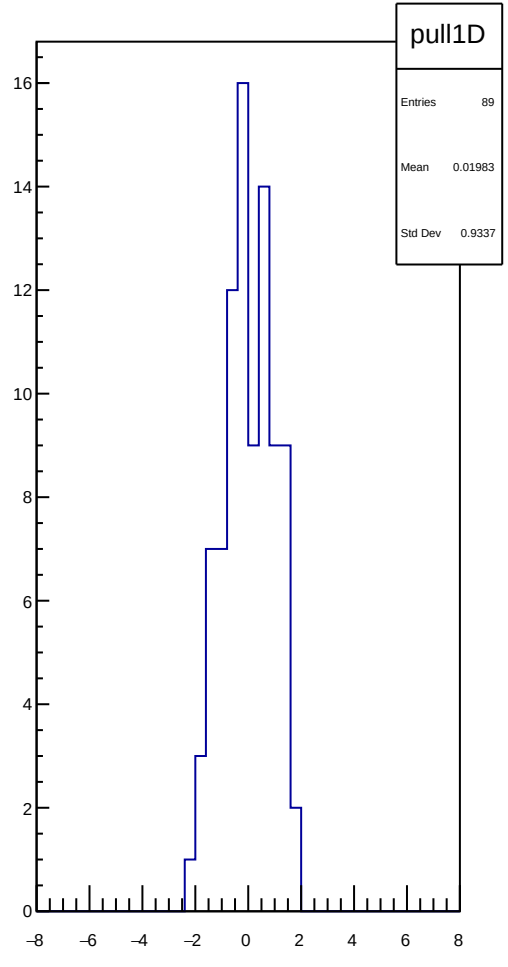

pull1D
Entries 89
Mean 0.02126
Std Dev 0.9568

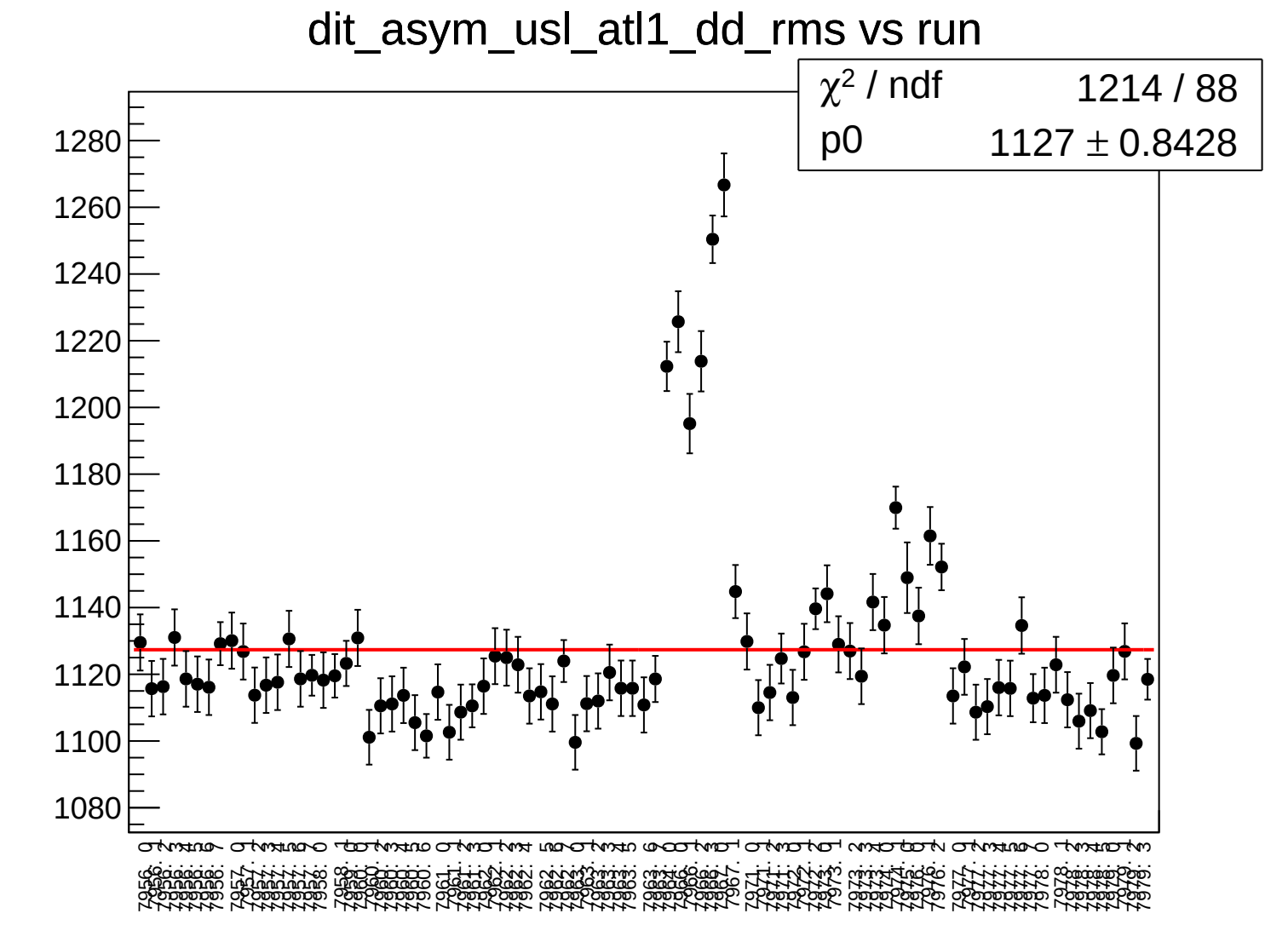

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 260.3 / 88
p0 1116 ± 0.8342
1200
1180
1160
1140
1120
1100
1080

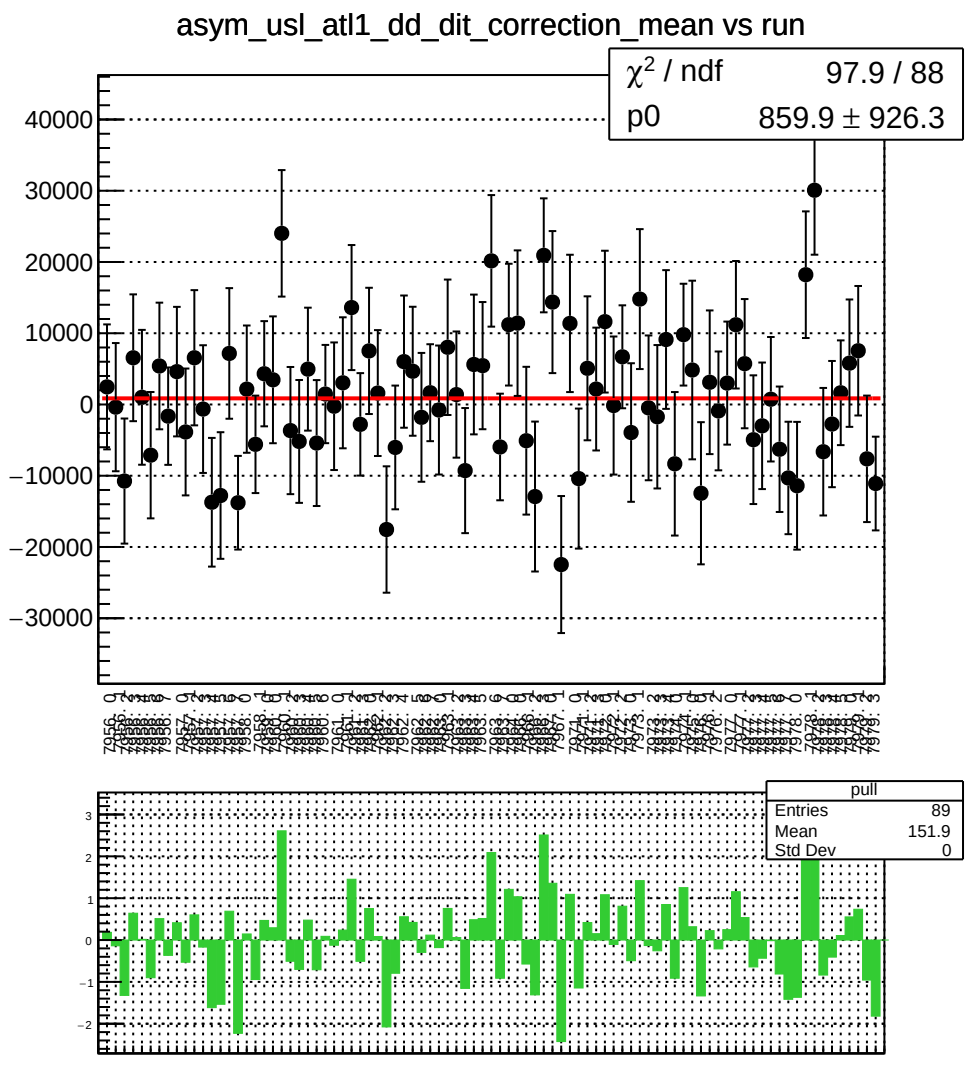

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.68 / 88
p0 830.3 ± 935.9
pull
Entries 89
Mean 106
Std Dev 0
pull1D
Entries 89
Mean 0.02604
Std Dev 1.058

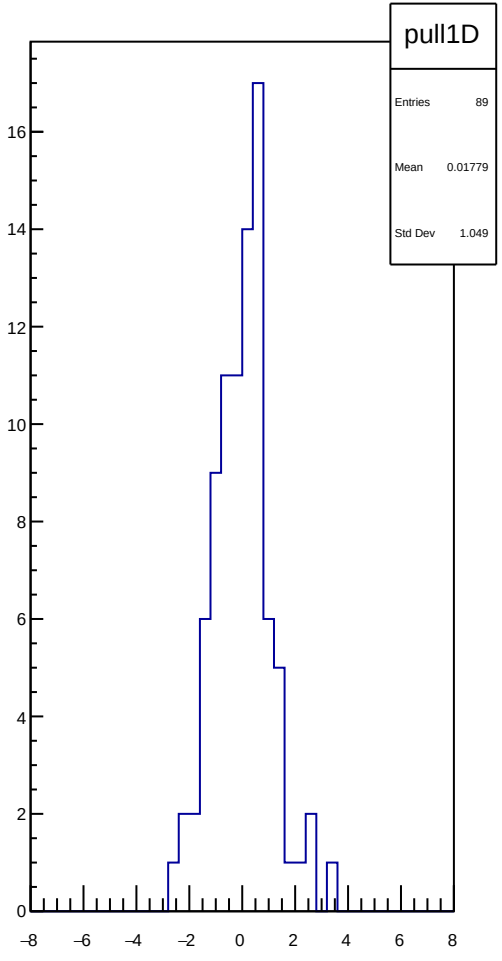

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6980 / 88
p0 883.9 ± 0.6618
1300
1200
1100
1000
900
800

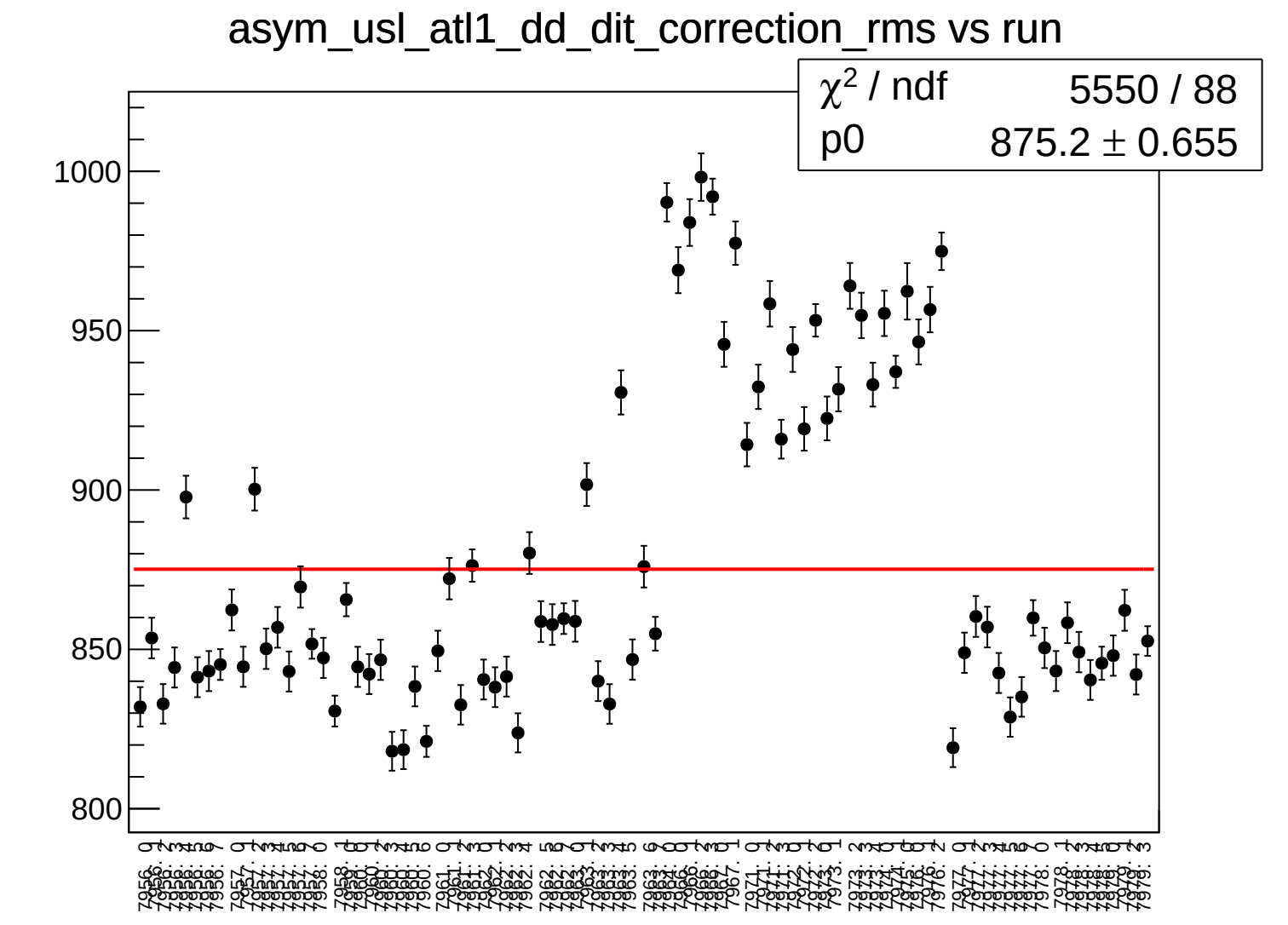

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 77.62 / 88
p0 684.2 ± 1192
pull
Entries 89
Mean −138
Std Dev 0

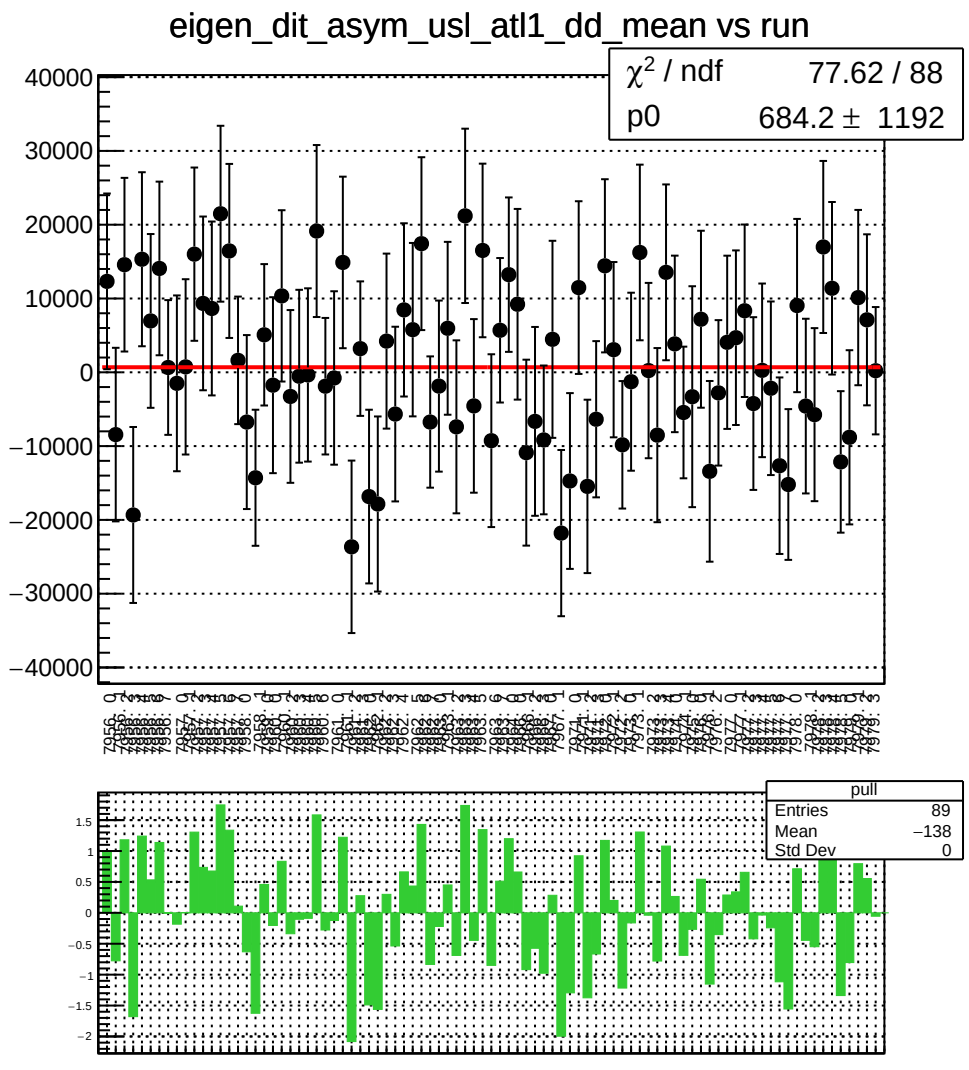

pull1D
Entries 89
Mean 0.01983
Std Dev 0.9337

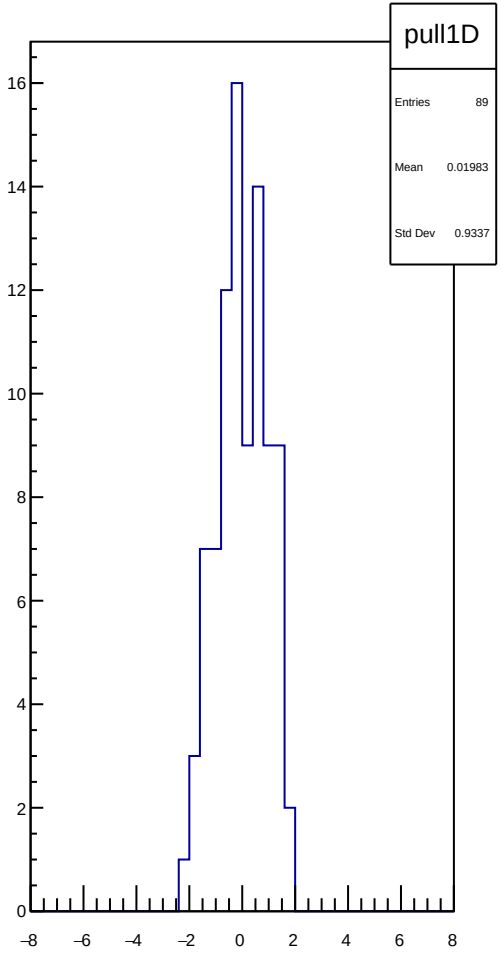

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 1214 / 88
p0 1127 ± 0.8428
1280
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080

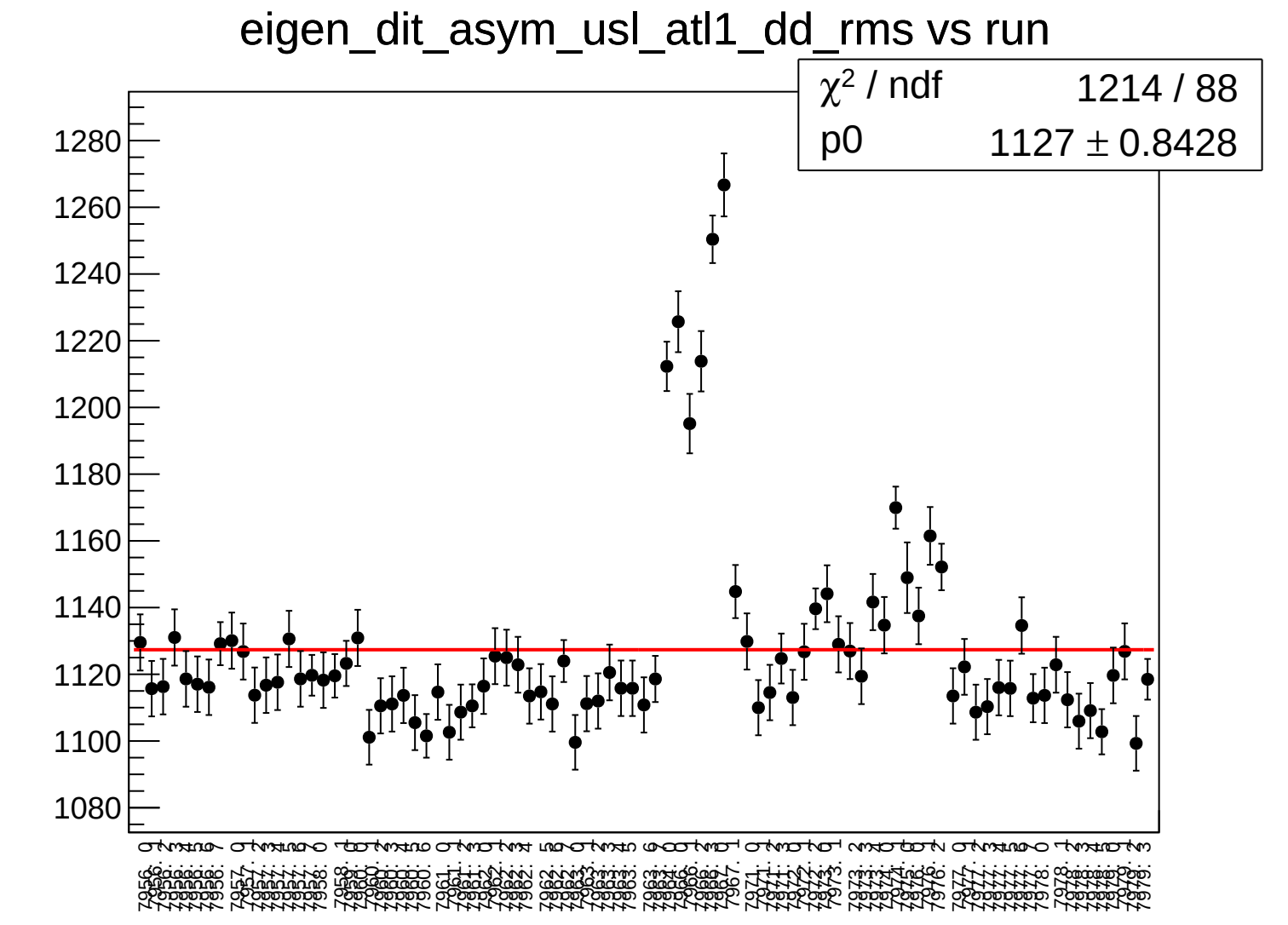

asym_usl_atl1_dd_dit_correction_mean vs run
$\chi^2$ / ndf 97.9 / 88
p0 859.9 ± 926.3
pull
Entries 89
Mean 151.9
Std Dev 0

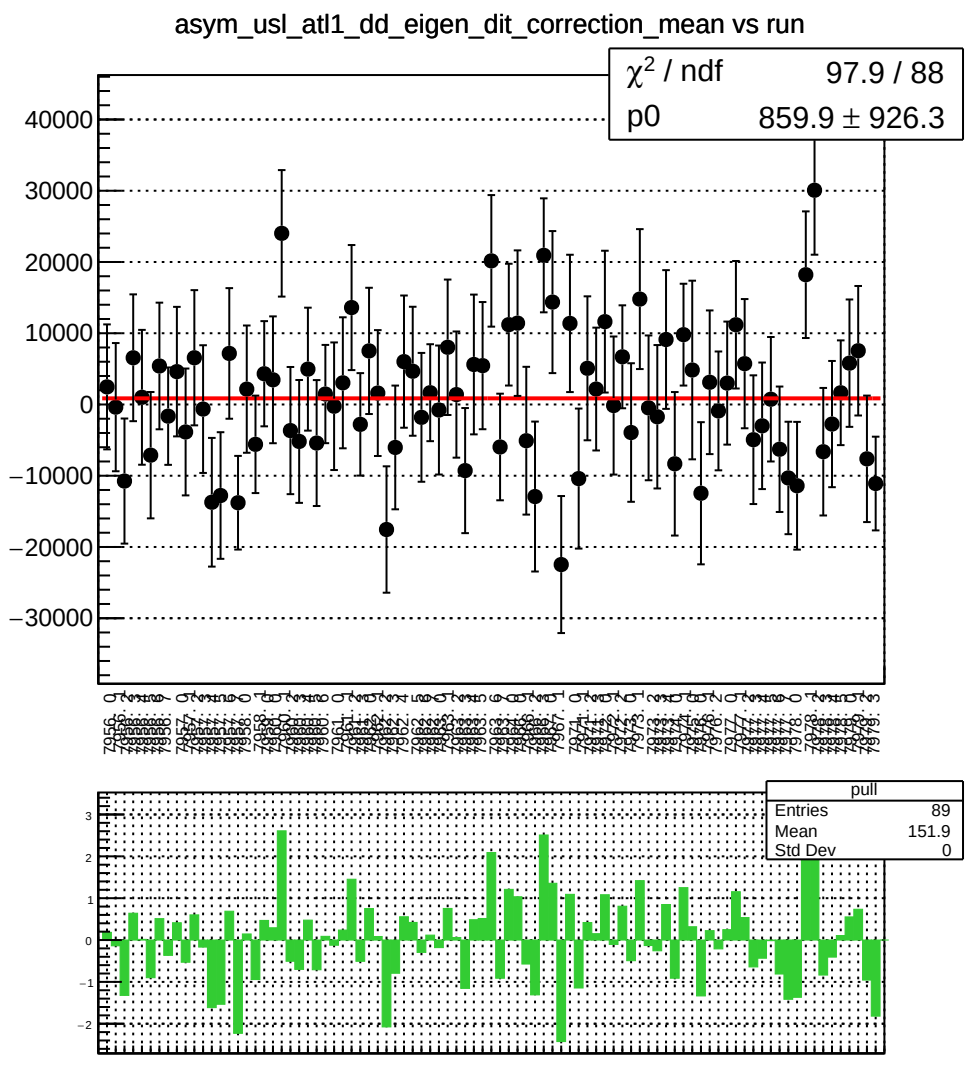

pull1D
Entries 89
Mean 0.01779
Std Dev 1.049

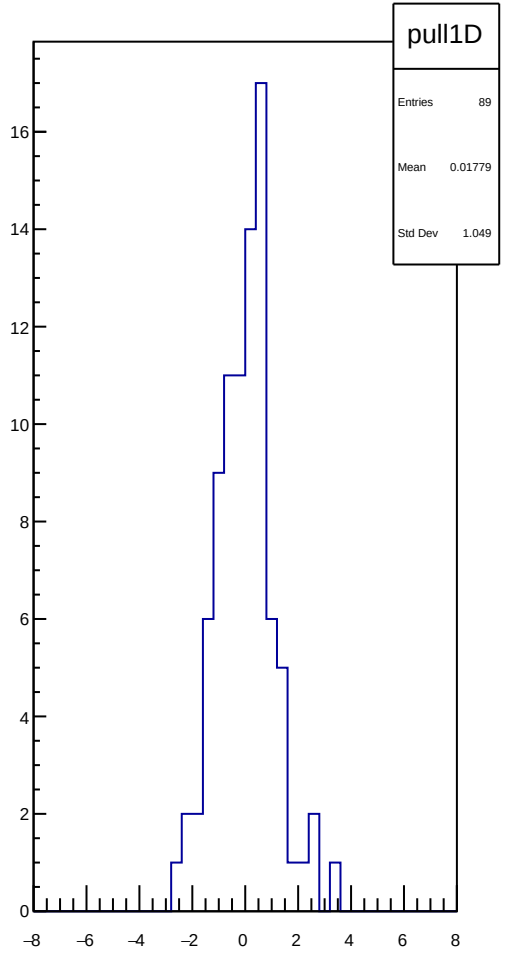

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 5550 / 88
p0 875.2 ± 0.655
1000
950
900
850
800

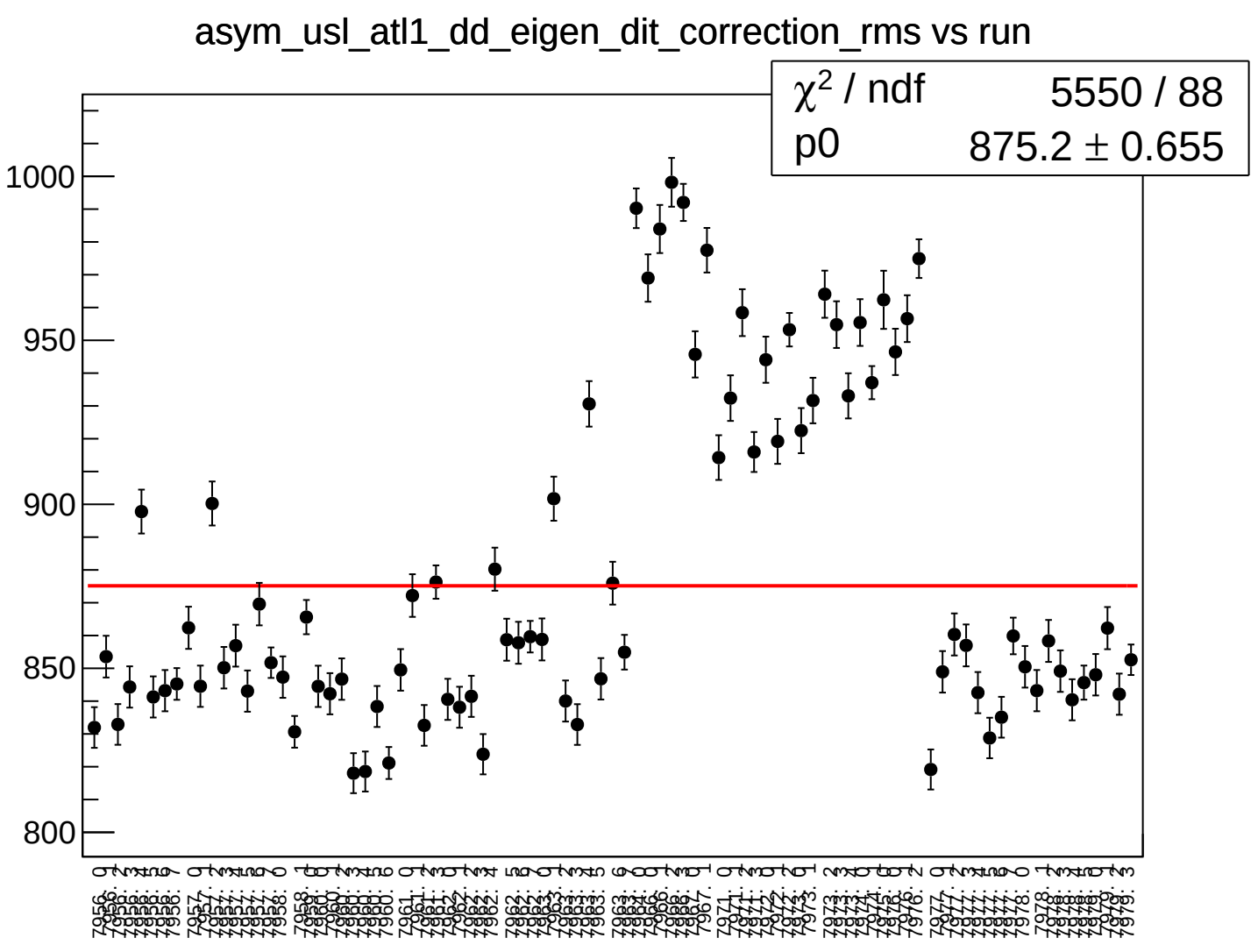

eigen_dit_asym_usl_atl1_dd_mean vs run
$\chi^2$ / ndf 77.62 / 88
p0 684.2 ± 1192
pull
Entries 89
Mean −138
Std Dev 0

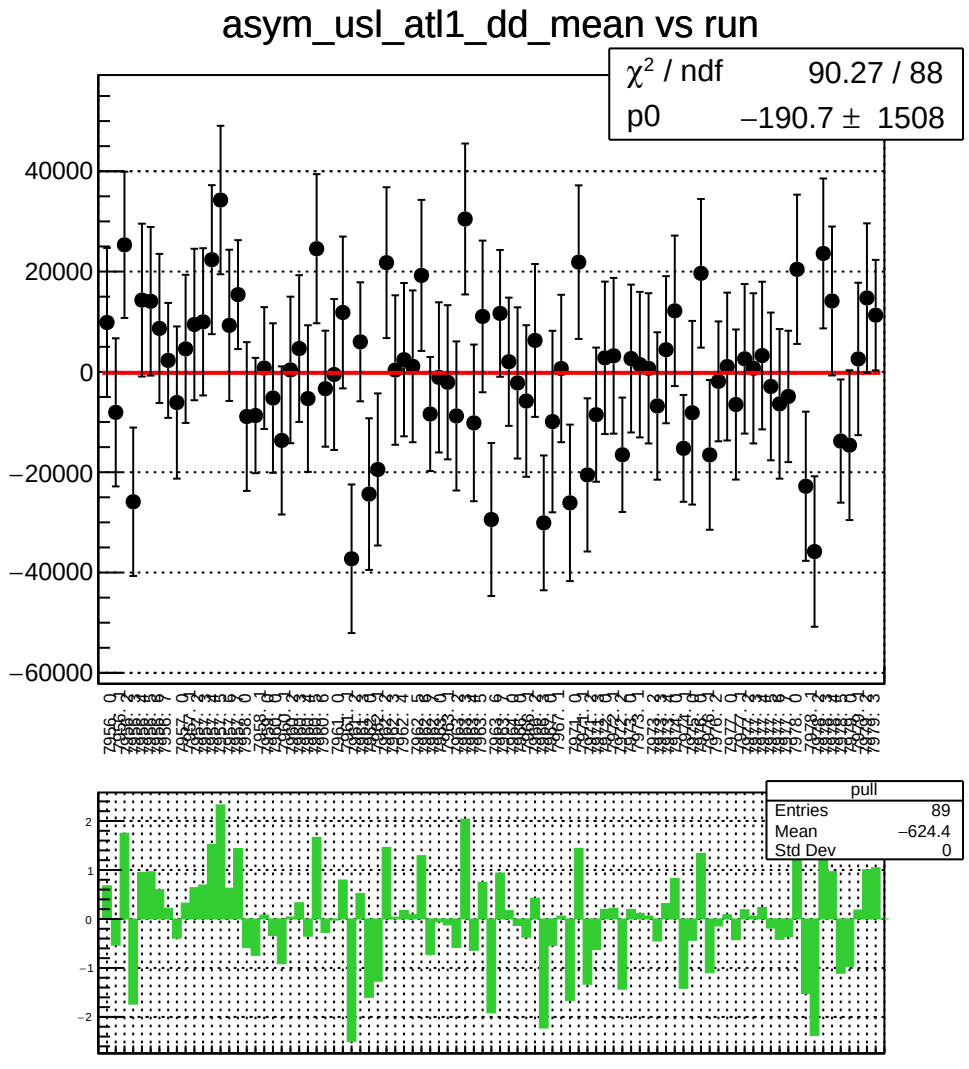

pull1D
Entries 89
Mean 0.01983
Std Dev 0.9337

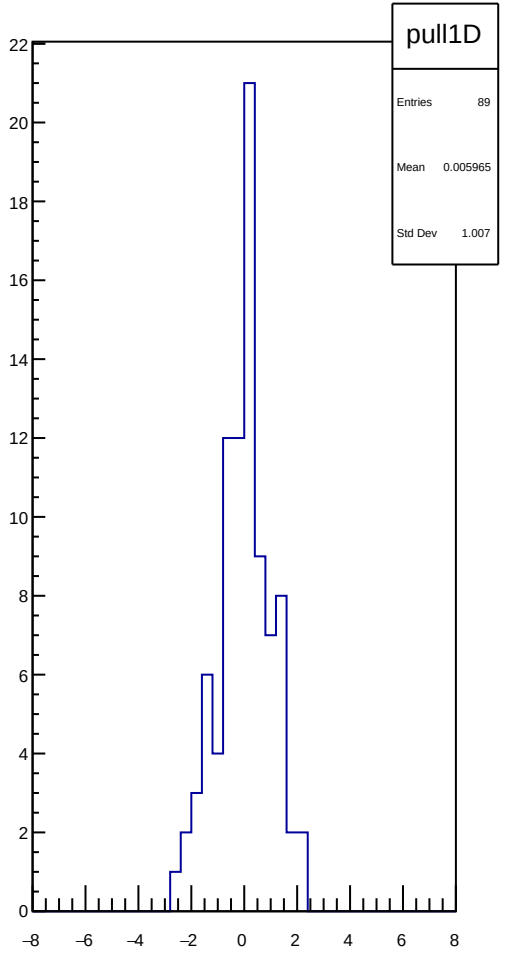

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 1214 / 88
p0 1127 ± 0.8428
1280
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080

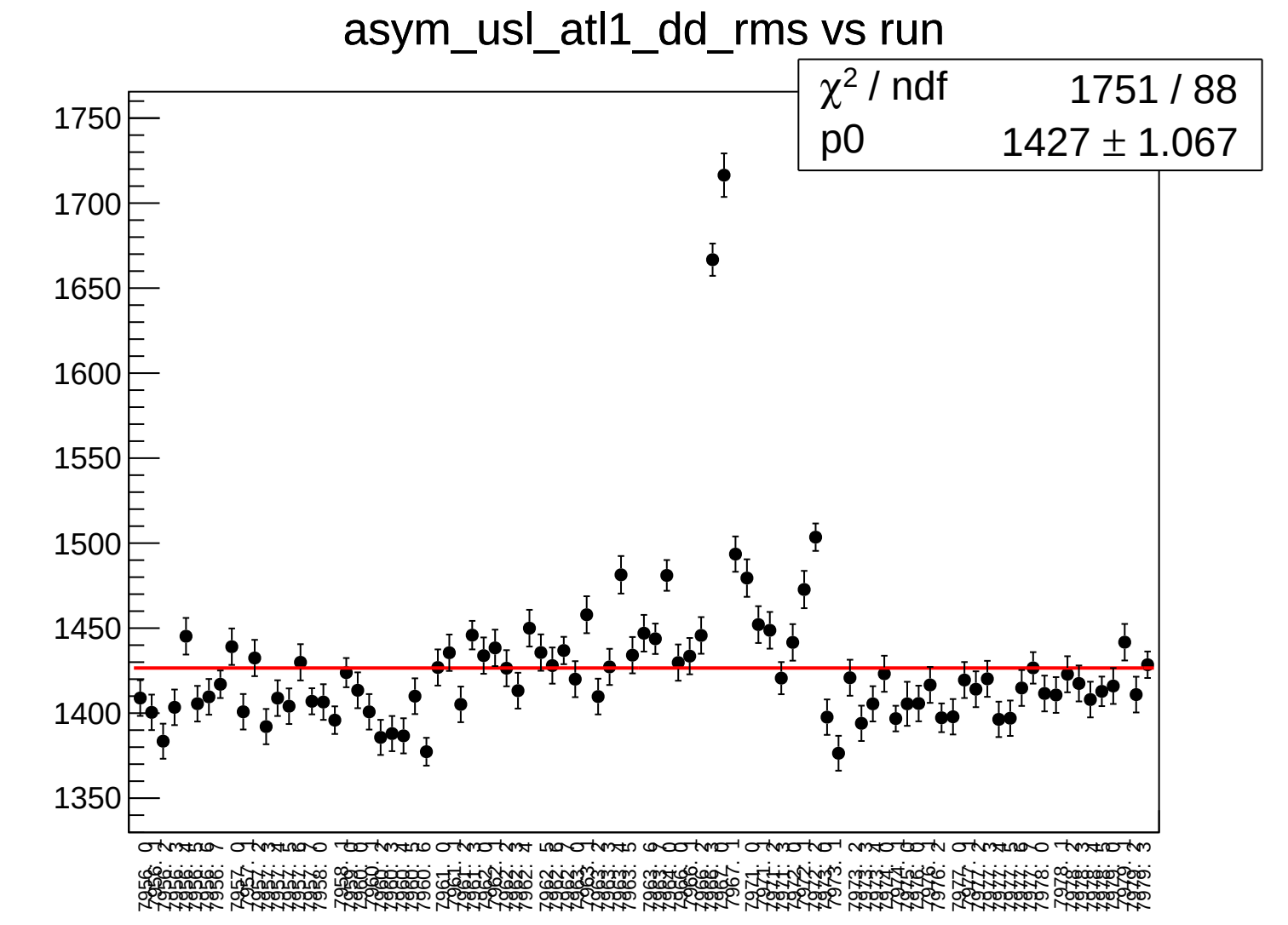

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.9 / 88
p0 859.9 ± 926.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 151.9
Std Dev 0
3
2
1
0
−1
−2

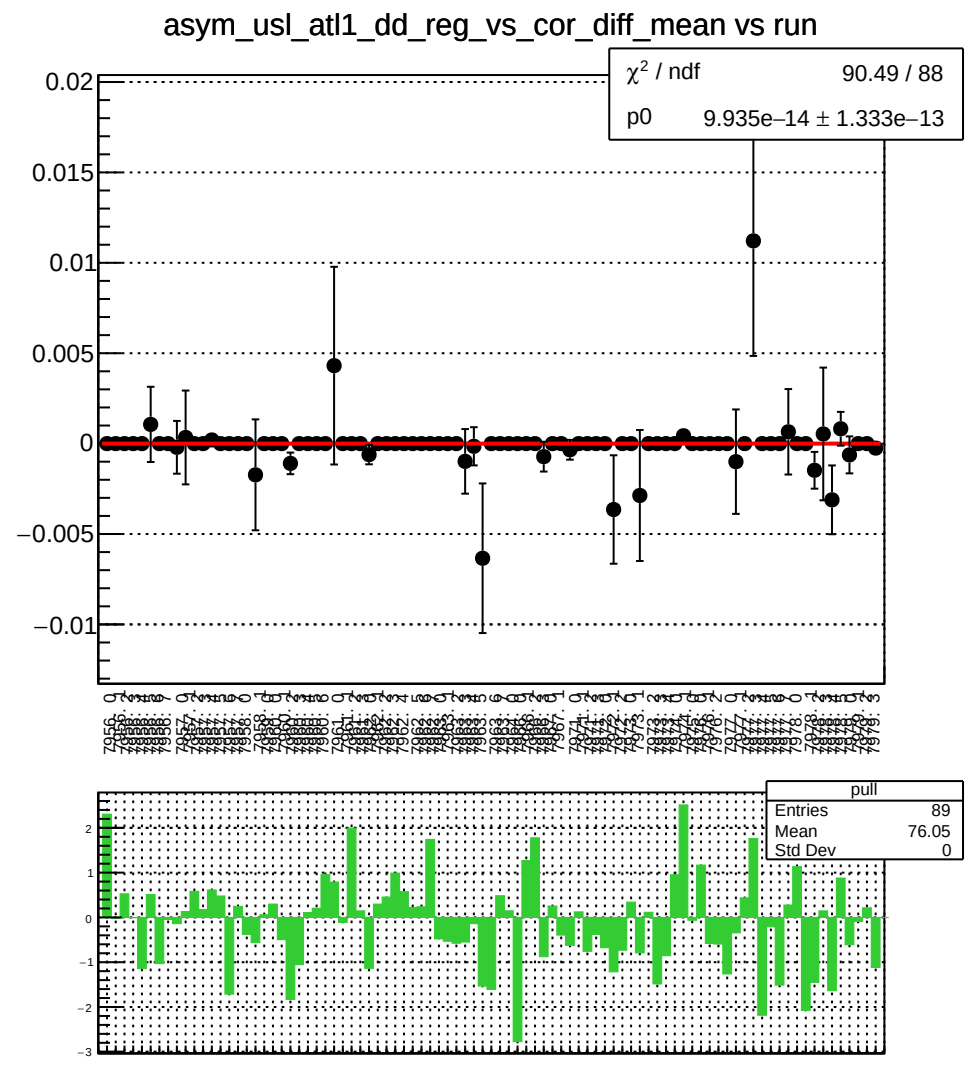

pull1D
Entries 89
Mean 0.01779
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

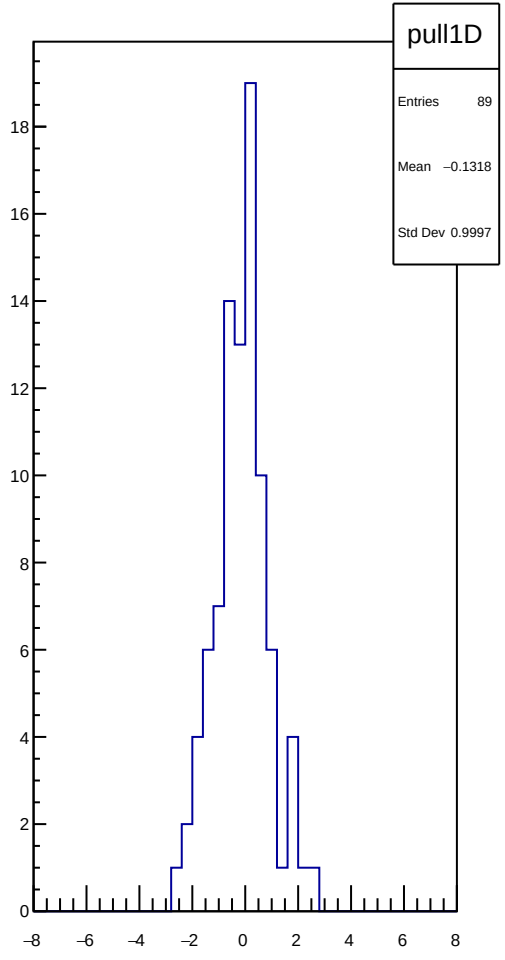

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 5550 / 88
p0 875.2 ± 0.655
1000
950
900
850
800

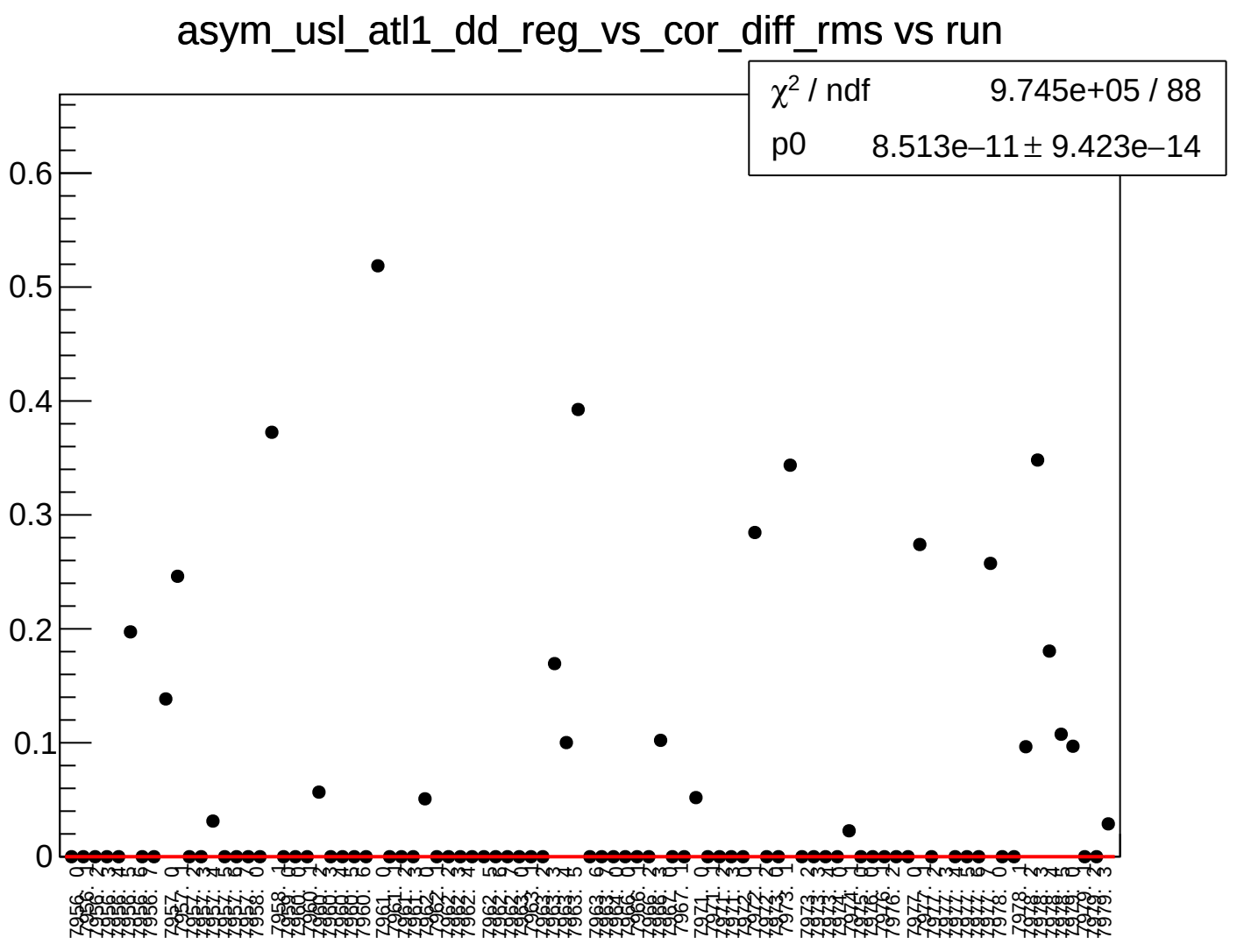

asym_usl_atl1_dd_mean vs run
χ² / ndf 90.27 / 88
p0 −190.7 ± 1508
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −624.4
Std Dev 0
2
1
0
−1
−2

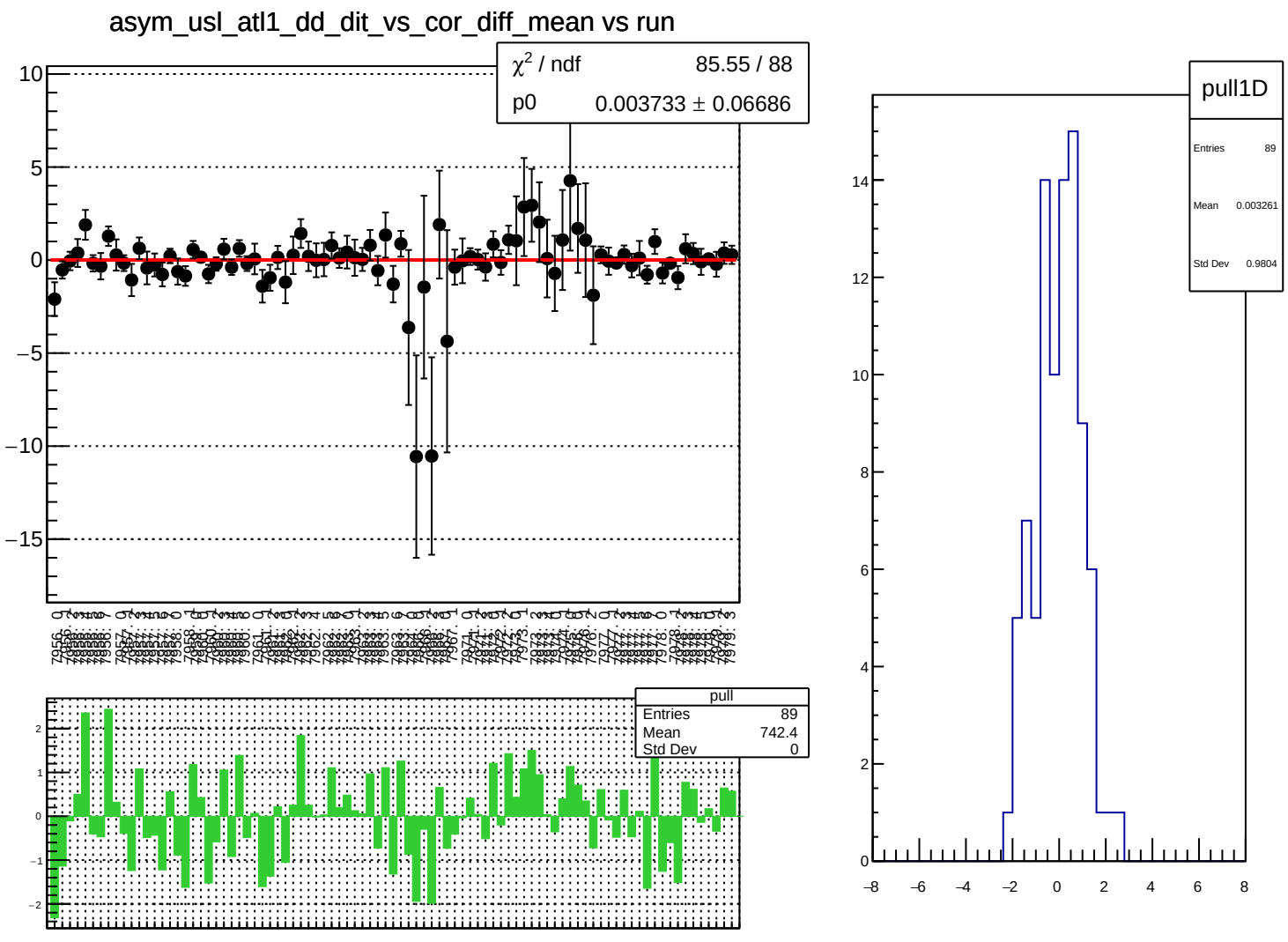

pull1D
Entries 89
Mean 0.005965
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

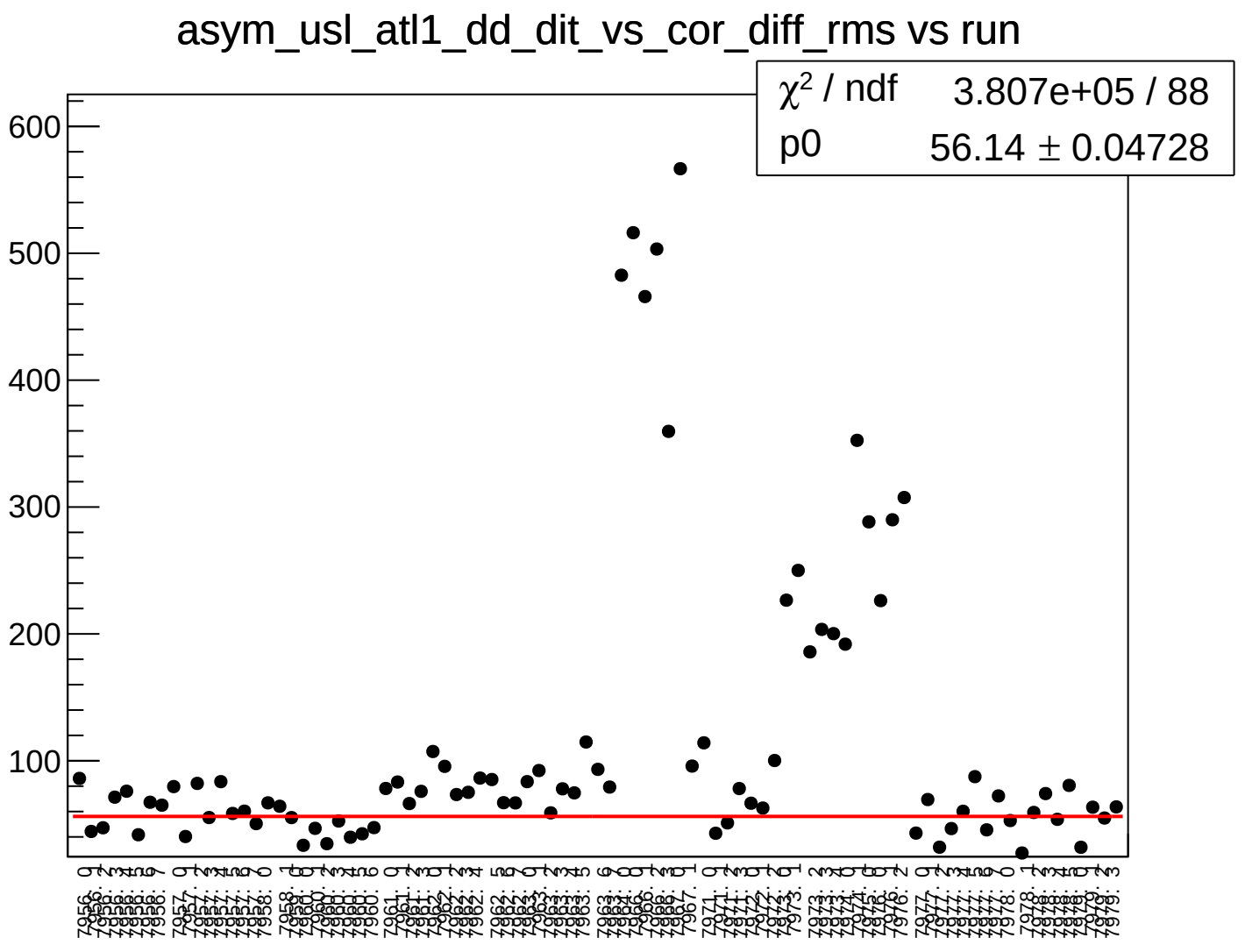

asym_usl_atl1_dd_rms vs run
χ² / ndf 1751 / 88
p0 1427 ± 1.067
1750
1700
1650
1600
1550
1500
1450
1400
1350

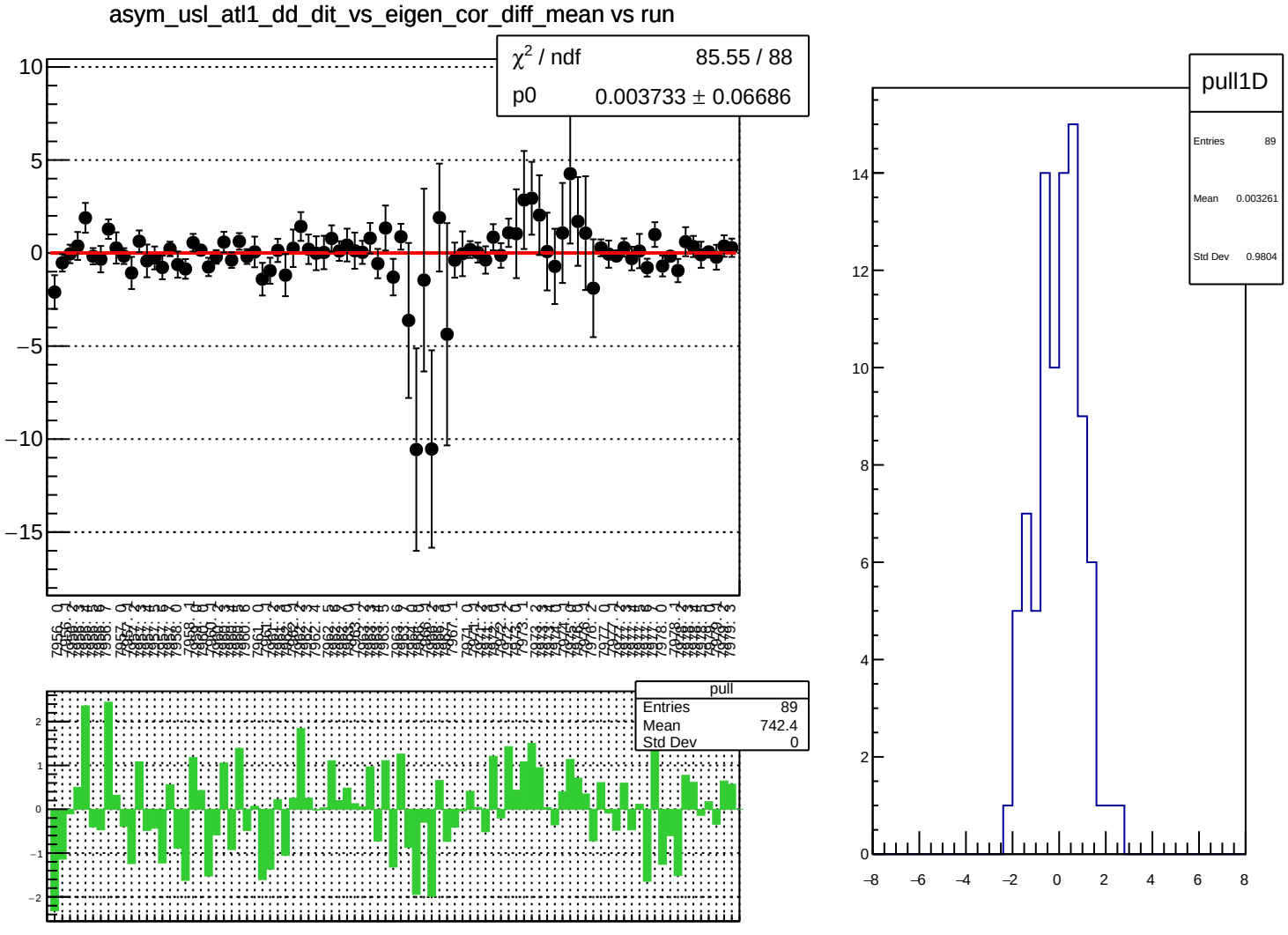

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.49 / 88
p0 9.935e−14 ± 1.333e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 76.05
Std Dev 0
2
1
0
−1
−2
−3

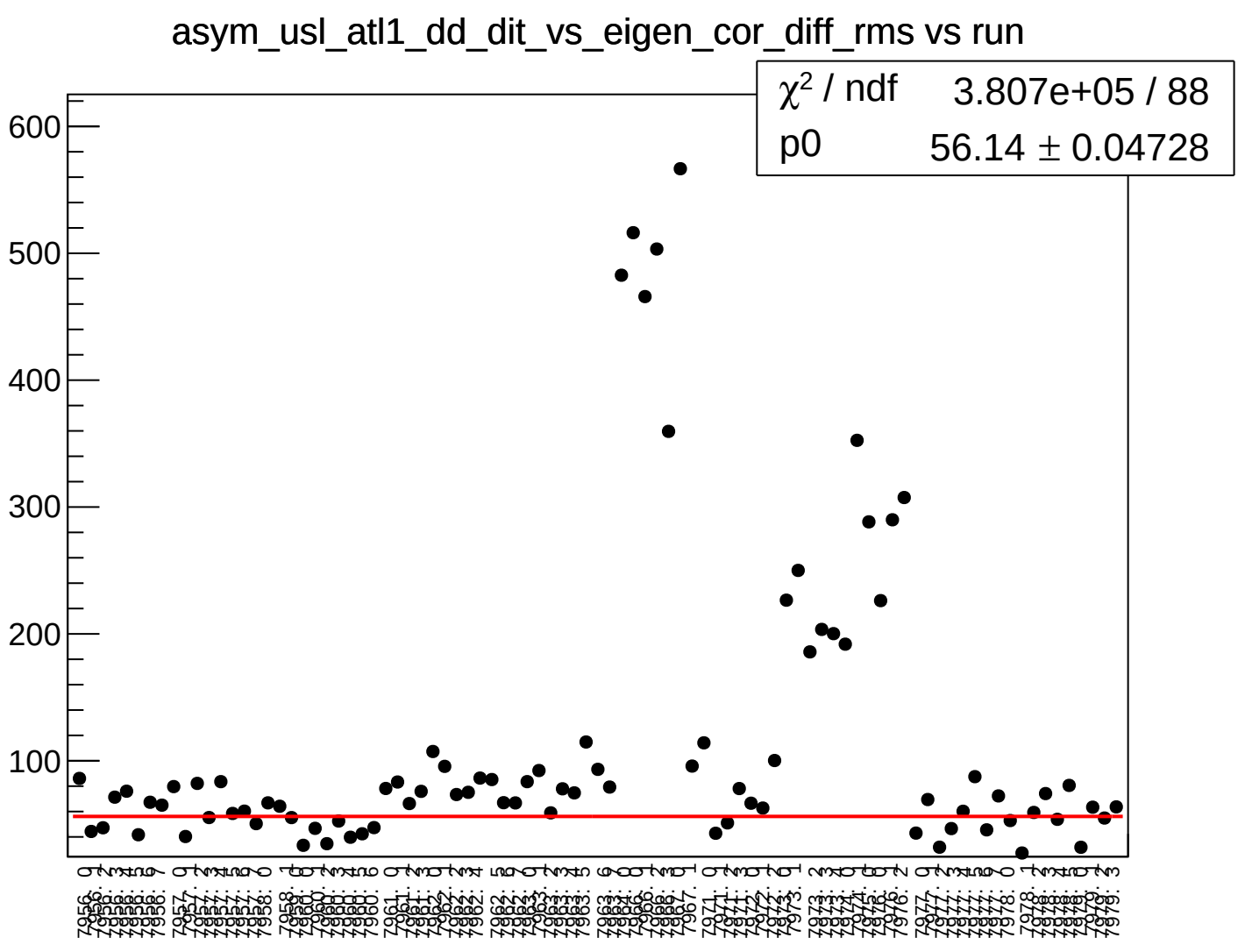

pull1D
Entries 89
Mean −0.1318
Std Dev 0.9997
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

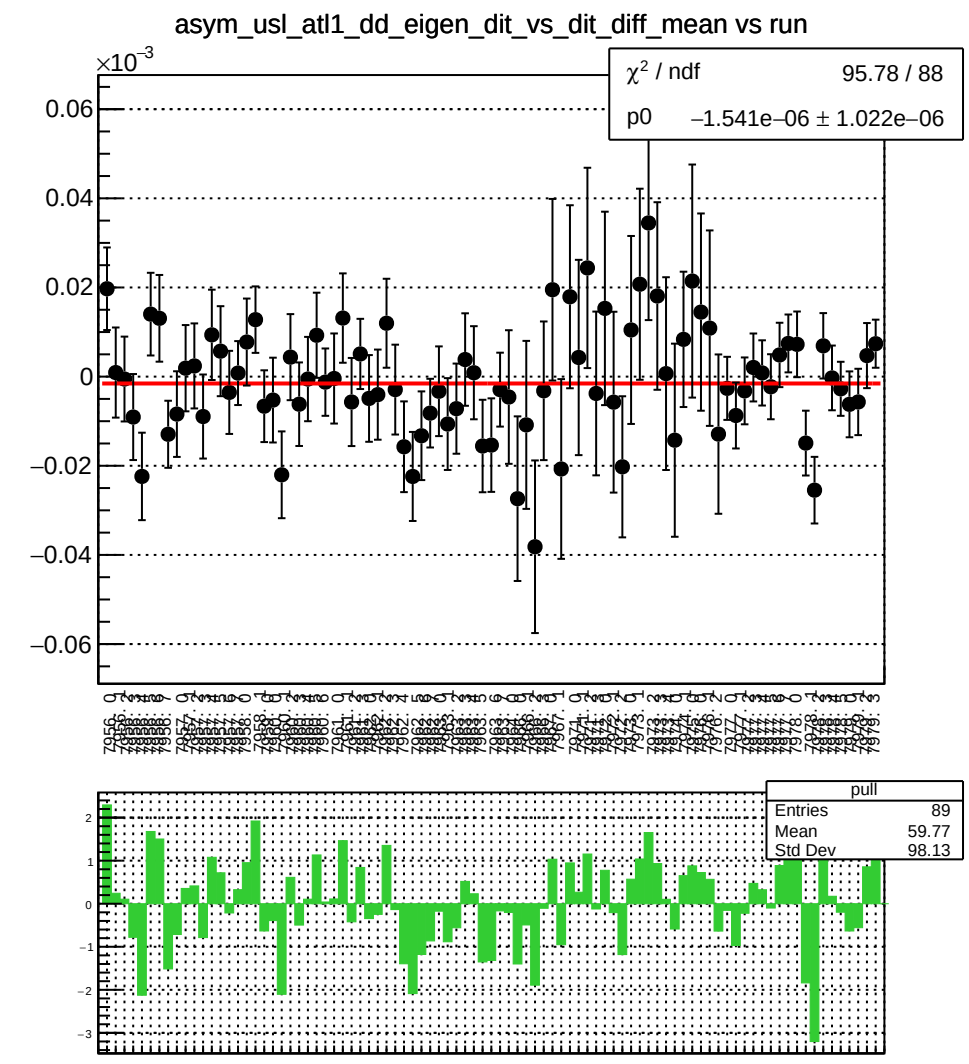

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.745e+05 / 88
p0 8.513e−11 ± 9.423e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

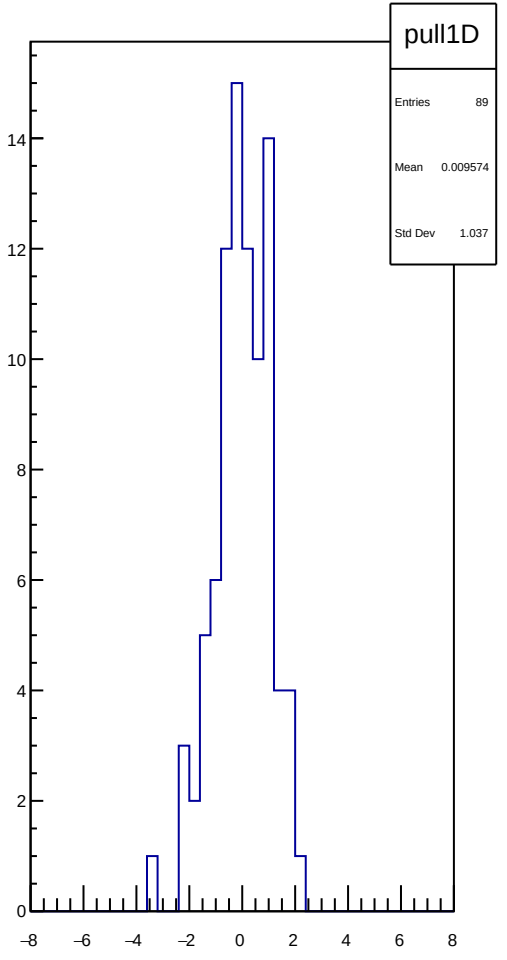

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.55 / 88
p0 0.003733 ± 0.06686
pull
Entries 89
Mean 742.4
Std Dev 0
pull1D
Entries 89
Mean 0.003261
Std Dev 0.9804

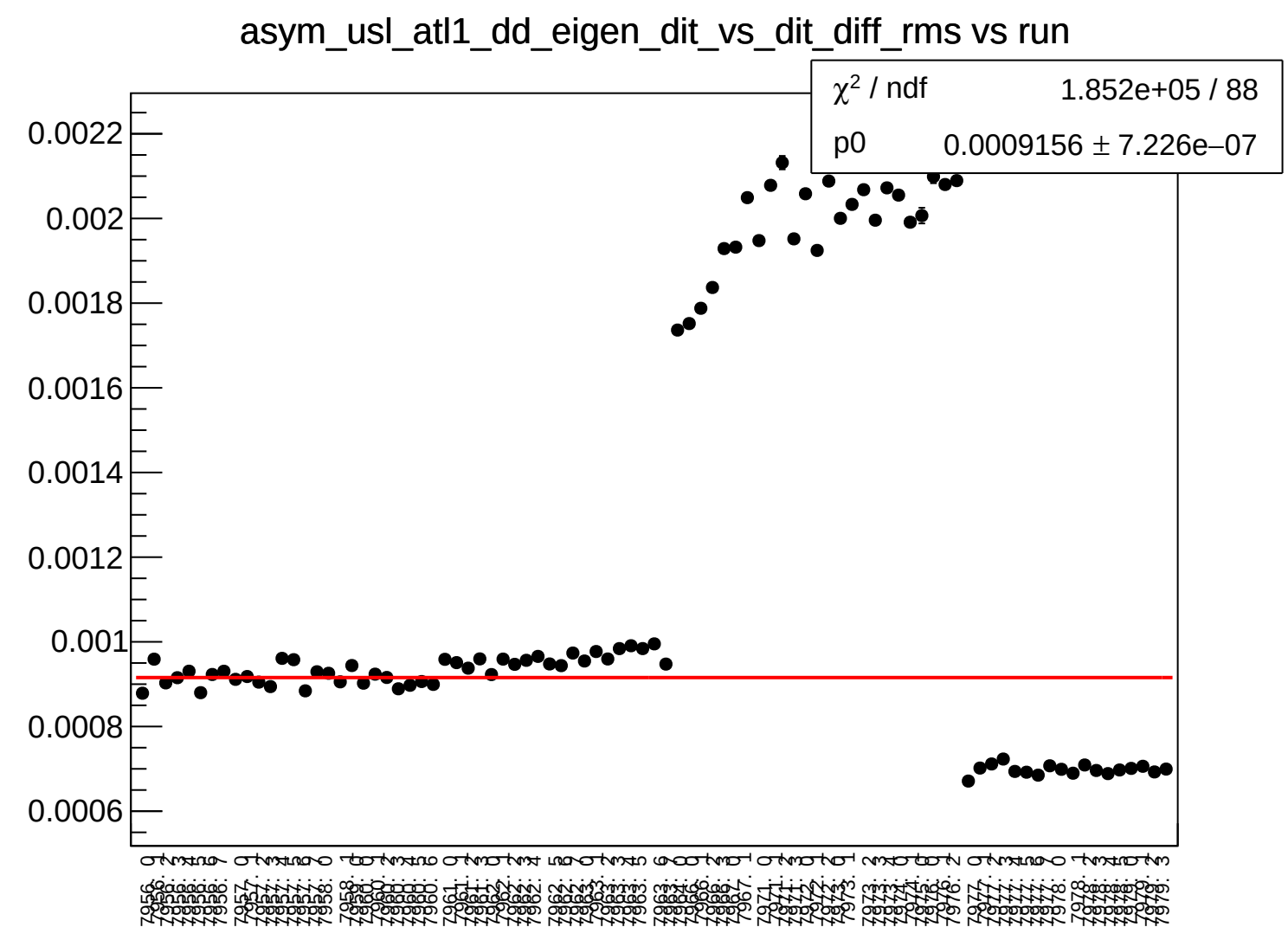

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.807e+05 / 88
p0 56.14 ± 0.04728
600
500
400
300
200
100

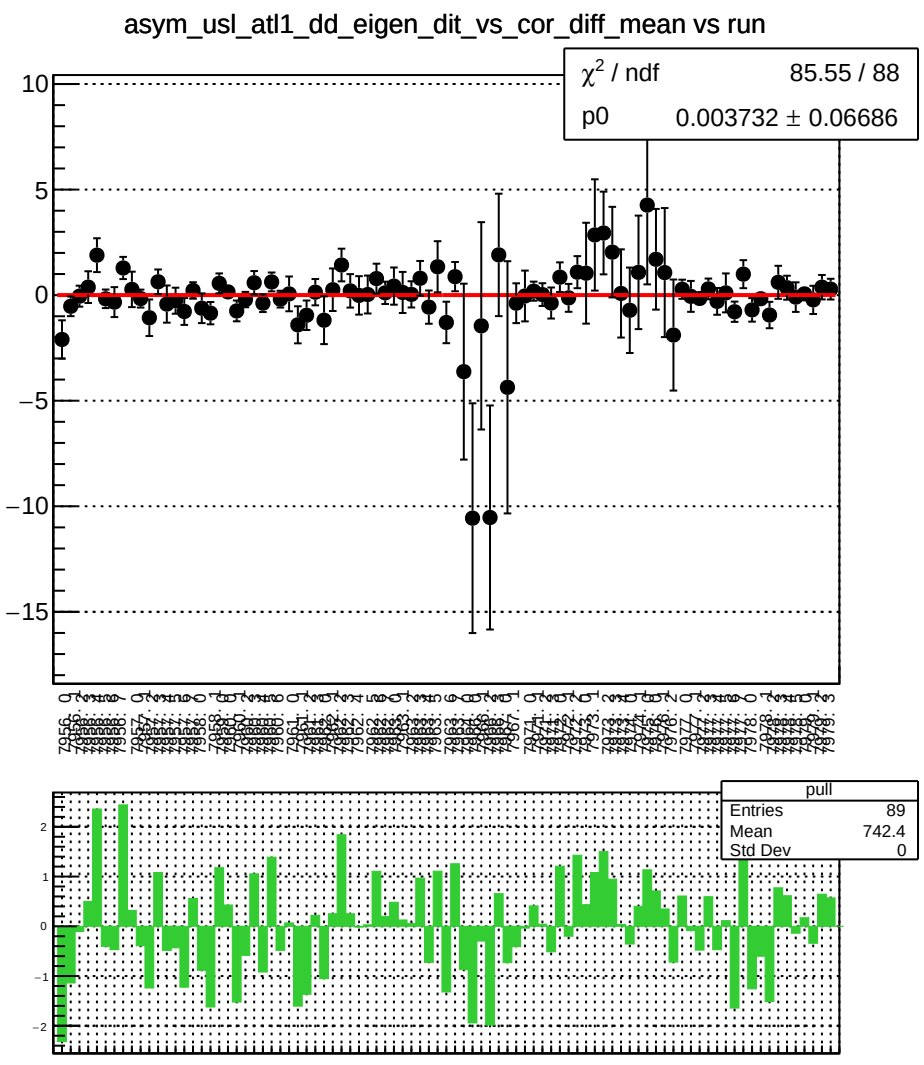

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.55 / 88
p0 0.003733 ± 0.06686
pull
Entries 89
Mean 742.4
Std Dev 0
pull1D
Entries 89
Mean 0.003261
Std Dev 0.9804

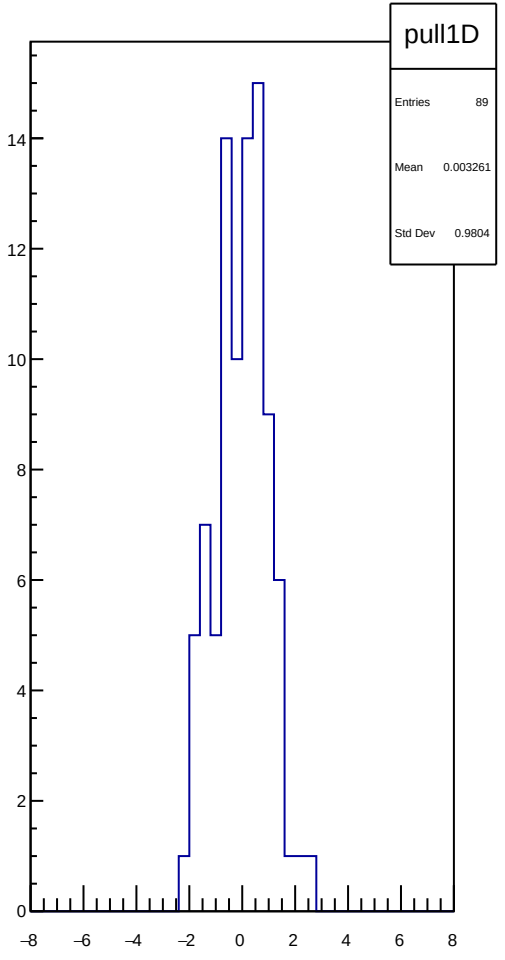

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.807e+05 / 88
p0 56.14 ± 0.04728
600
500
400
300
200
100

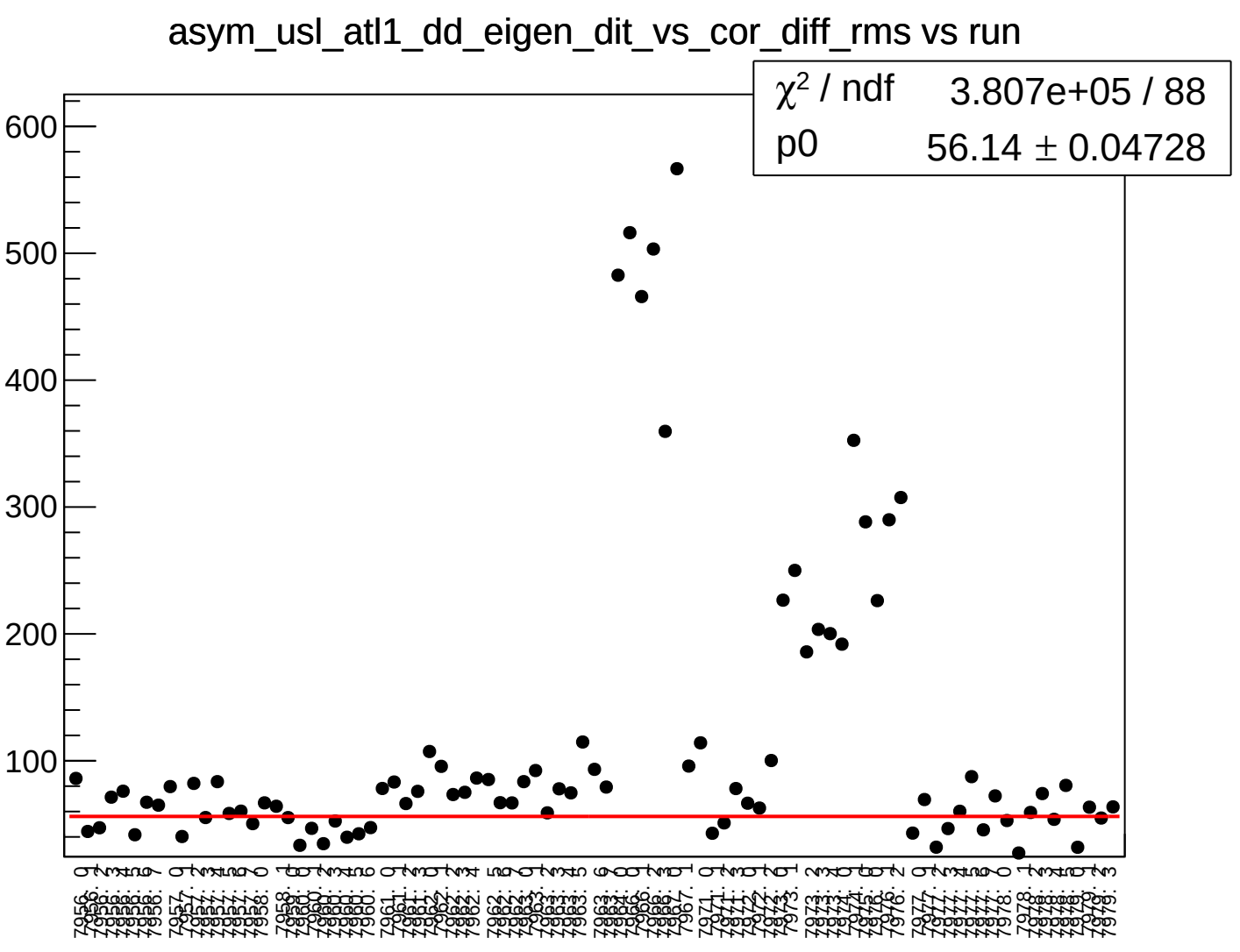

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.78 / 88
p0 −1.541e−06 ± 1.022e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 59.77
Std Dev 98.13
2
1
0
−1
−2
−3

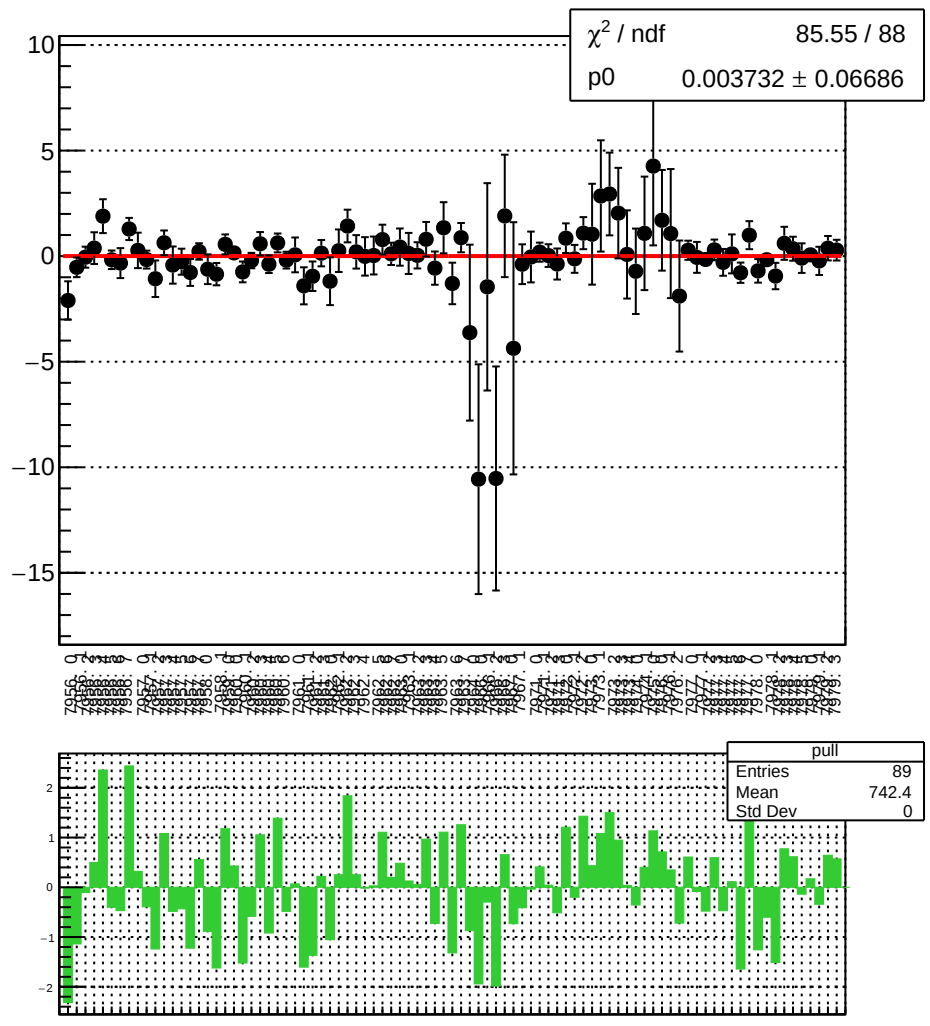

pull1D
Entries 89
Mean 0.009574
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

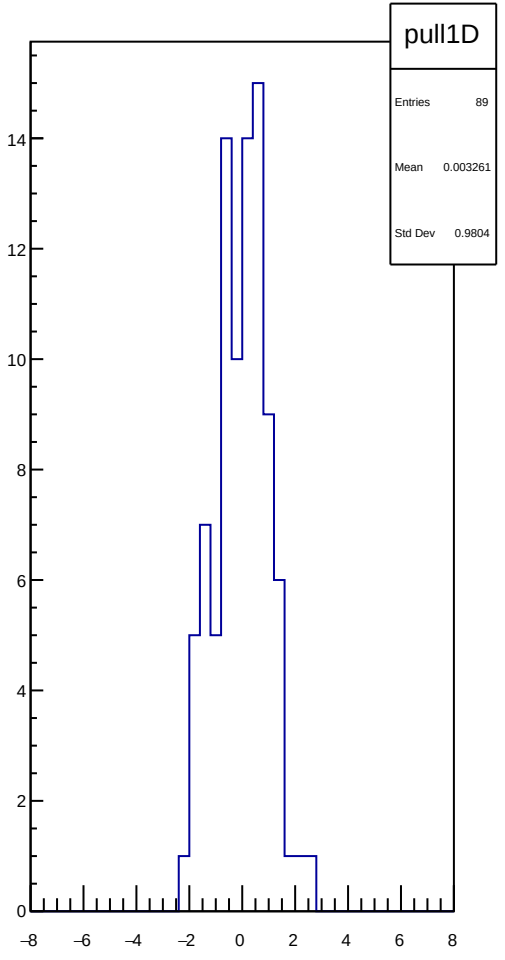

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.852e+05 / 88
p0 0.0009156 ± 7.226e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

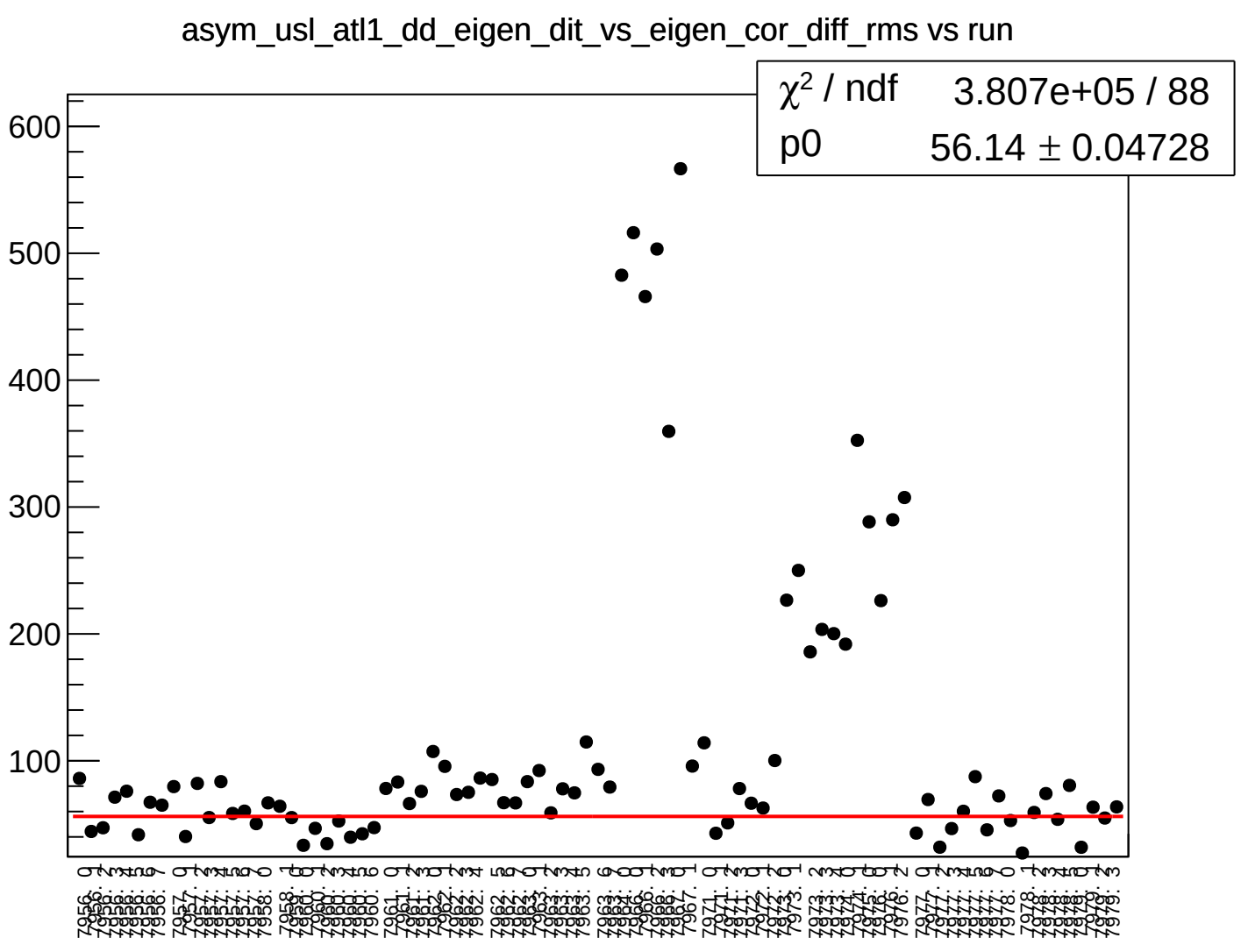

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.55 / 88
p0 0.003732 ± 0.06686
pull
Entries 89
Mean 742.4
Std Dev 0

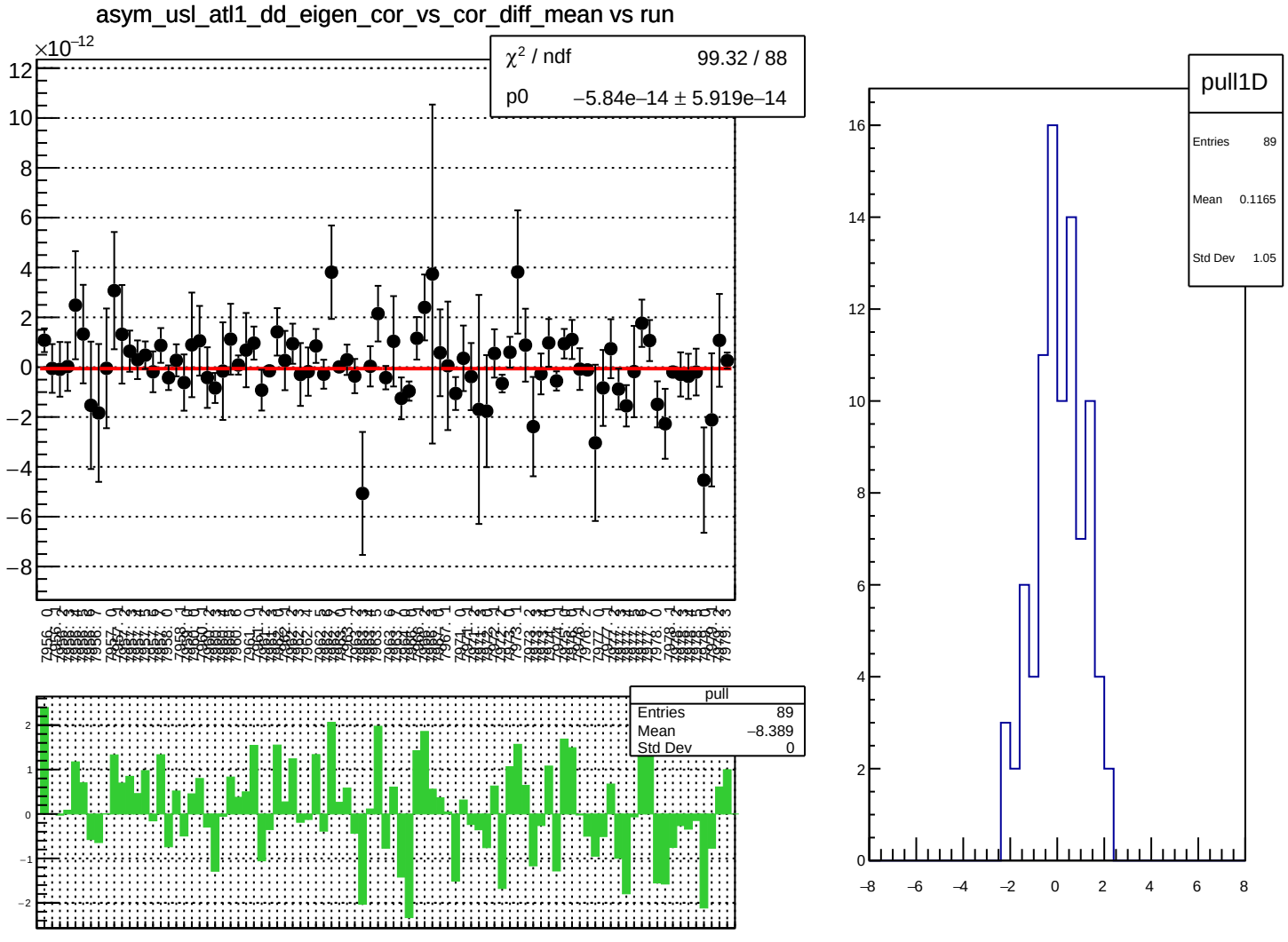

pull1D
Entries 89
Mean 0.003261
Std Dev 0.9804

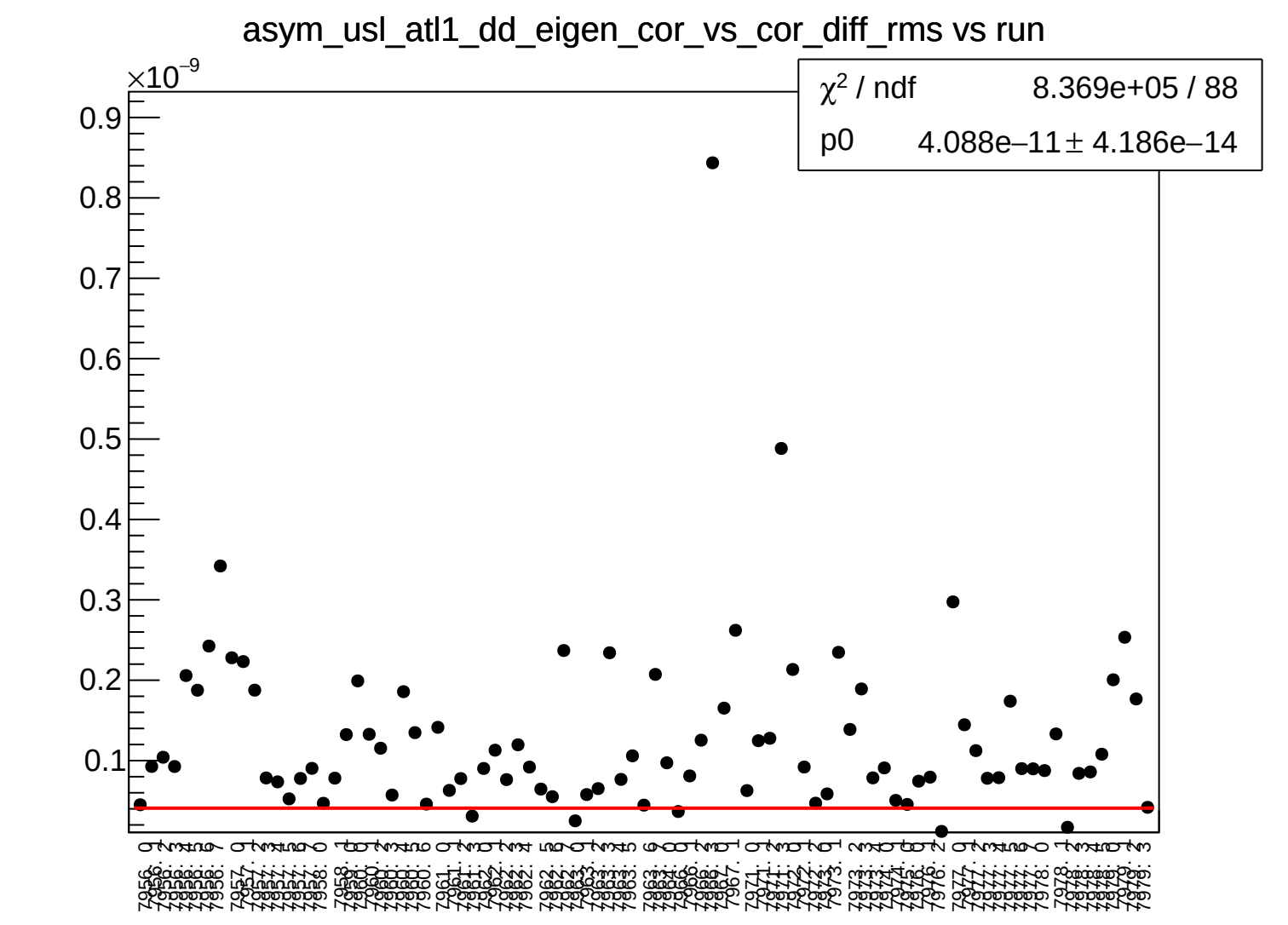

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.807e+05 / 88
p0 56.14 ± 0.04728
600
500
400
300
200
100

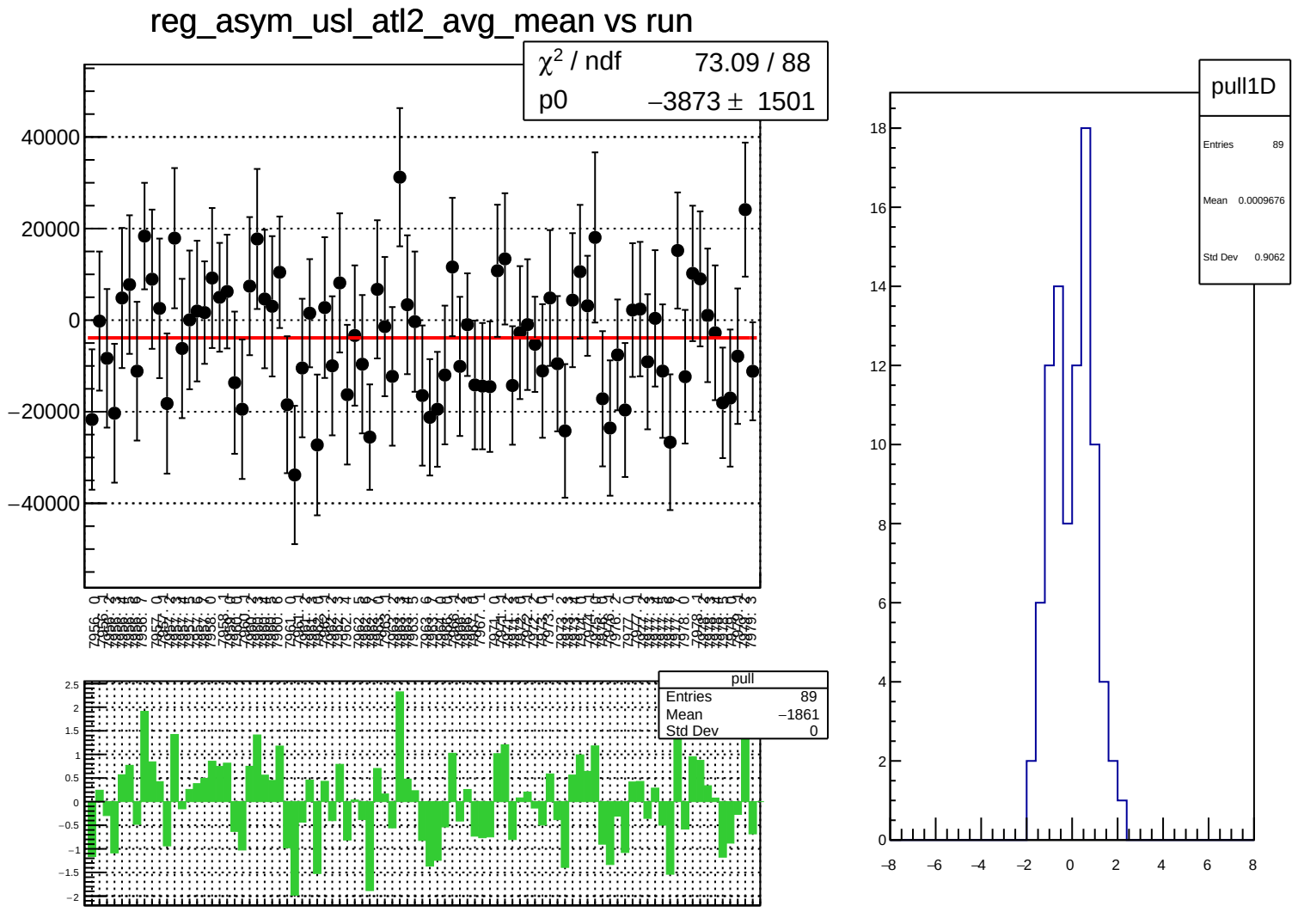

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.55 / 88
p0 0.003732 ± 0.06686
pull
Entries 89
Mean 742.4
Std Dev 0

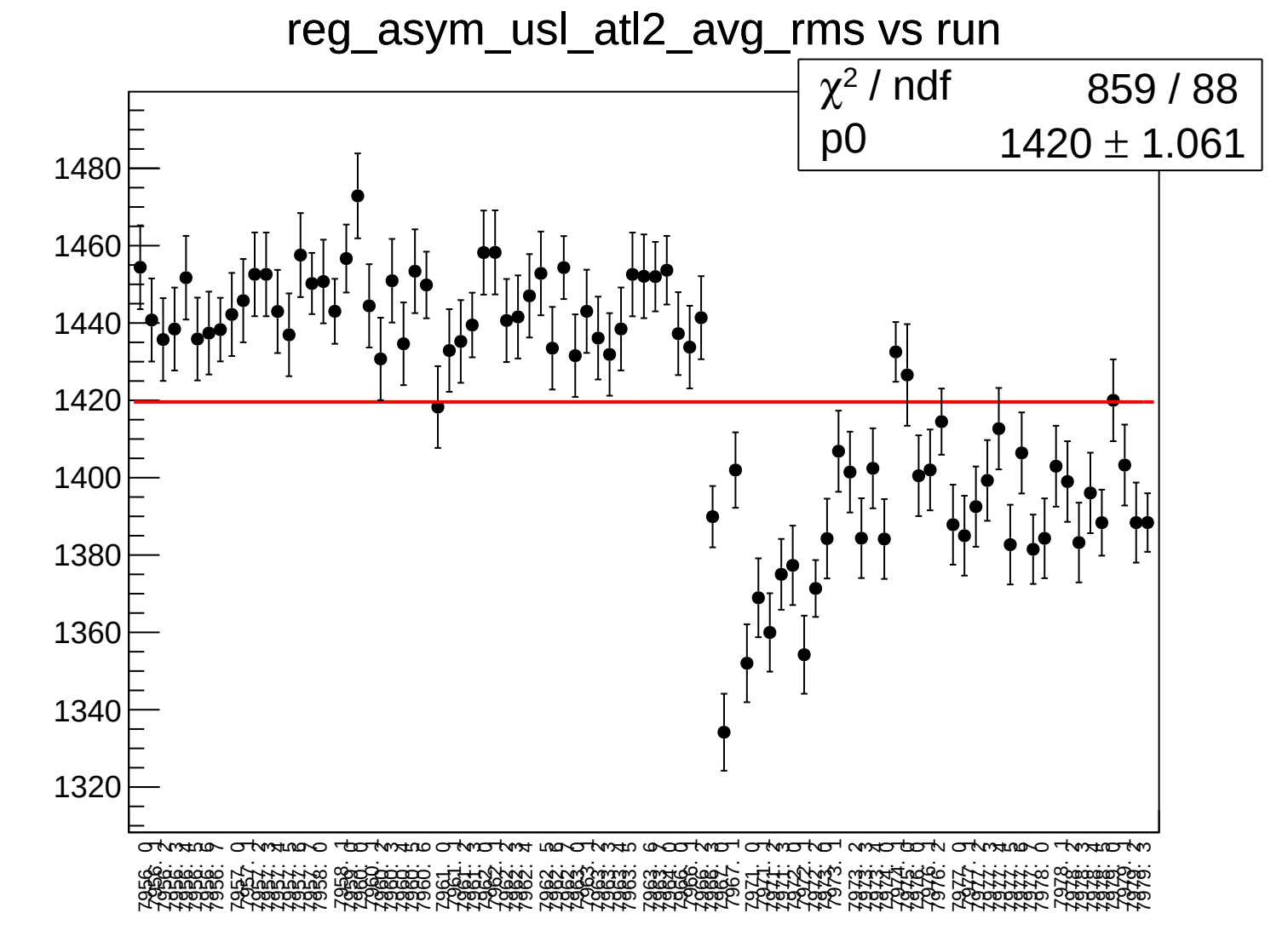

pull1D
Entries 89
Mean 0.003261
Std Dev 0.9804

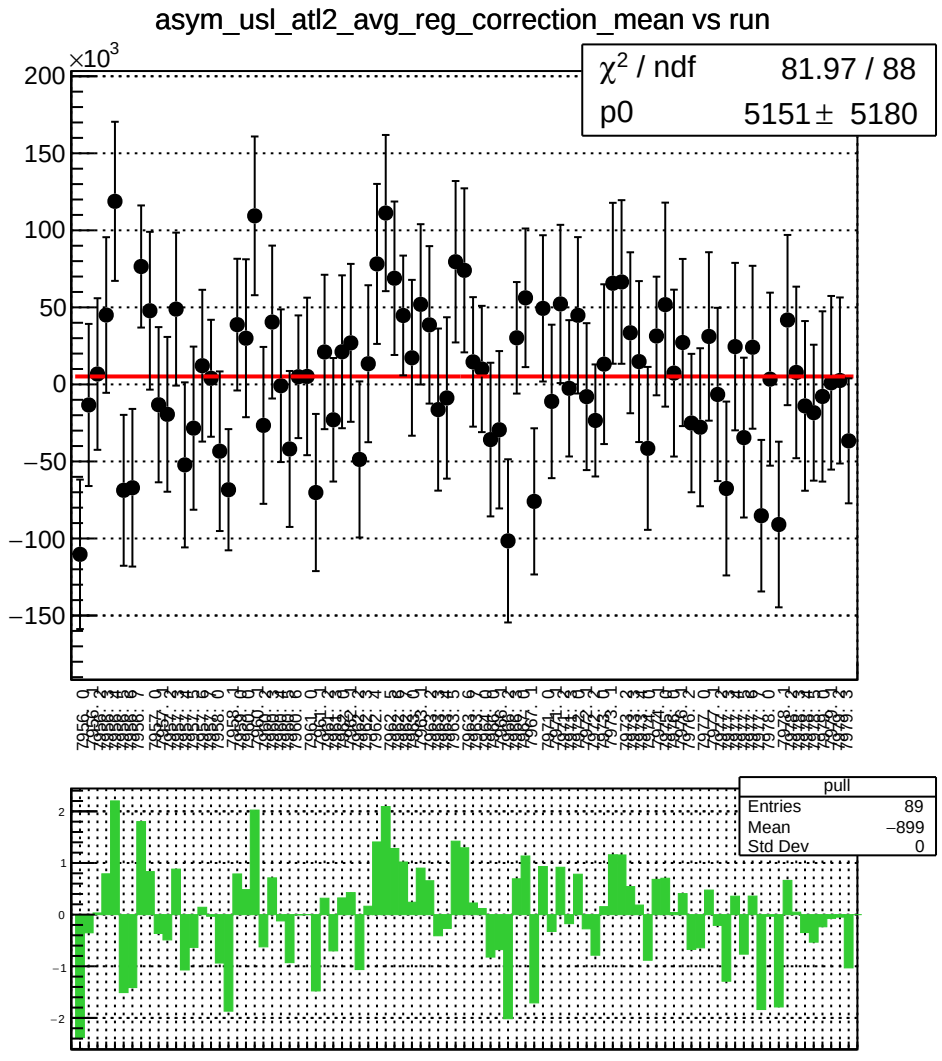

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.807e+05 / 88
p0 56.14 ± 0.04728
600
500
400
300
200
100

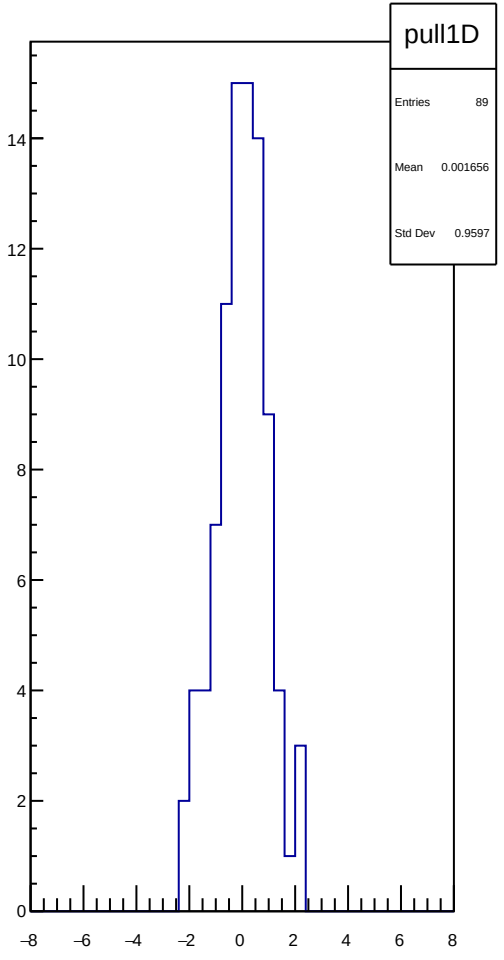

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.32 / 88
p0 −5.84e−14 ± 5.919e−14
pull
Entries 89
Mean −8.389
Std Dev 0
pull1D
Entries 89
Mean 0.1165
Std Dev 1.05

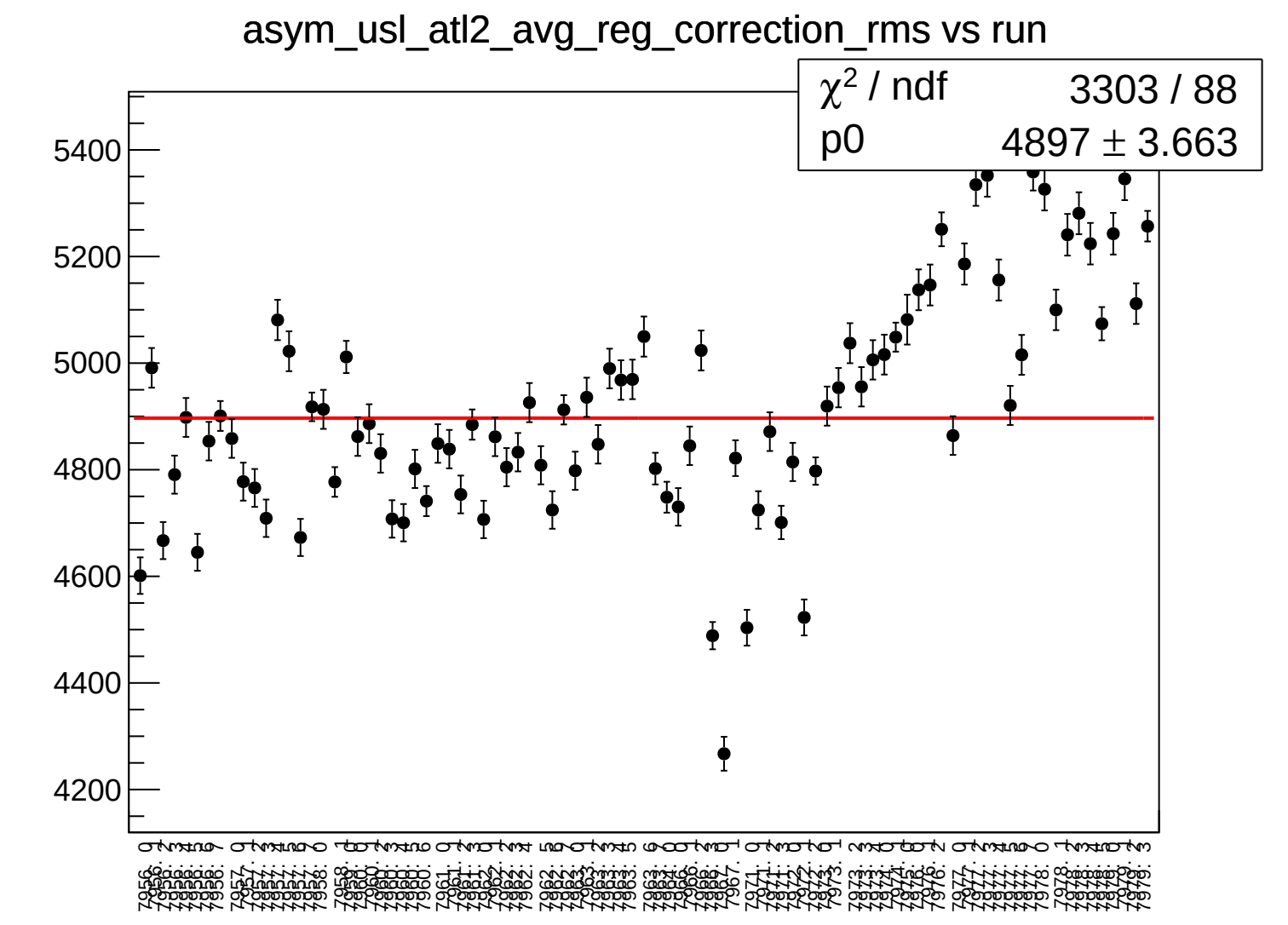

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.369e+05 / 88
p0 4.088e−11 ± 4.186e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

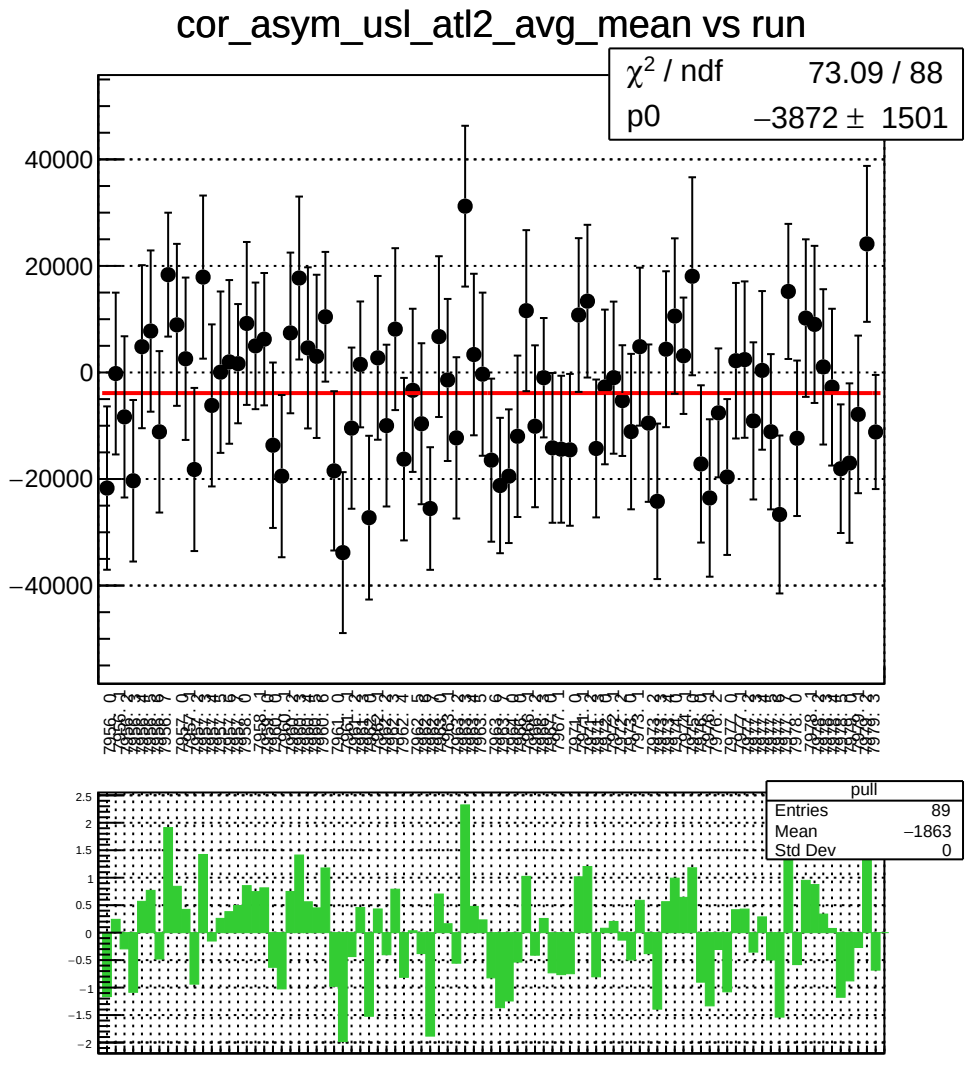

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 73.09 / 88
p0 −3873 ± 1501
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −1861
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.0009676
Std Dev 0.9062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

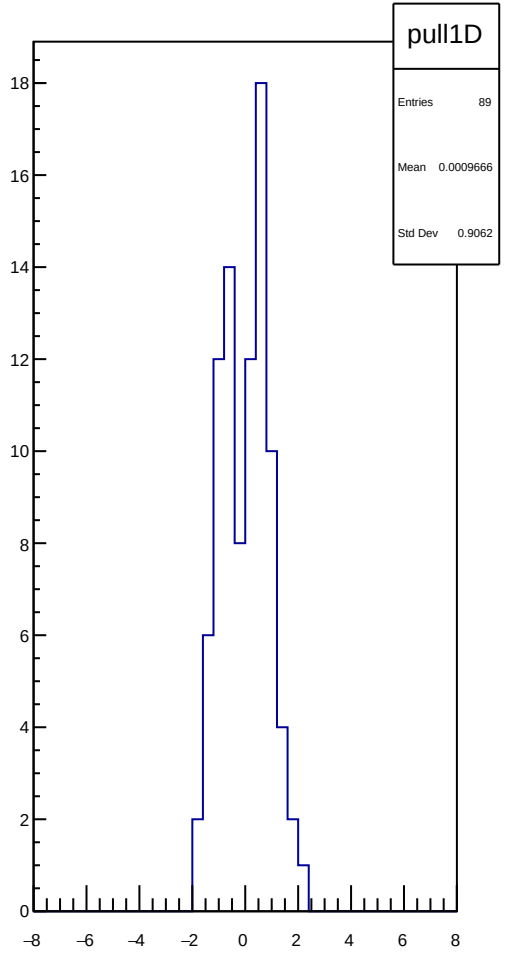

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 859 / 88
p0 1420 ± 1.061
1480
1460
1440
1420
1400
1380
1360
1340
1320

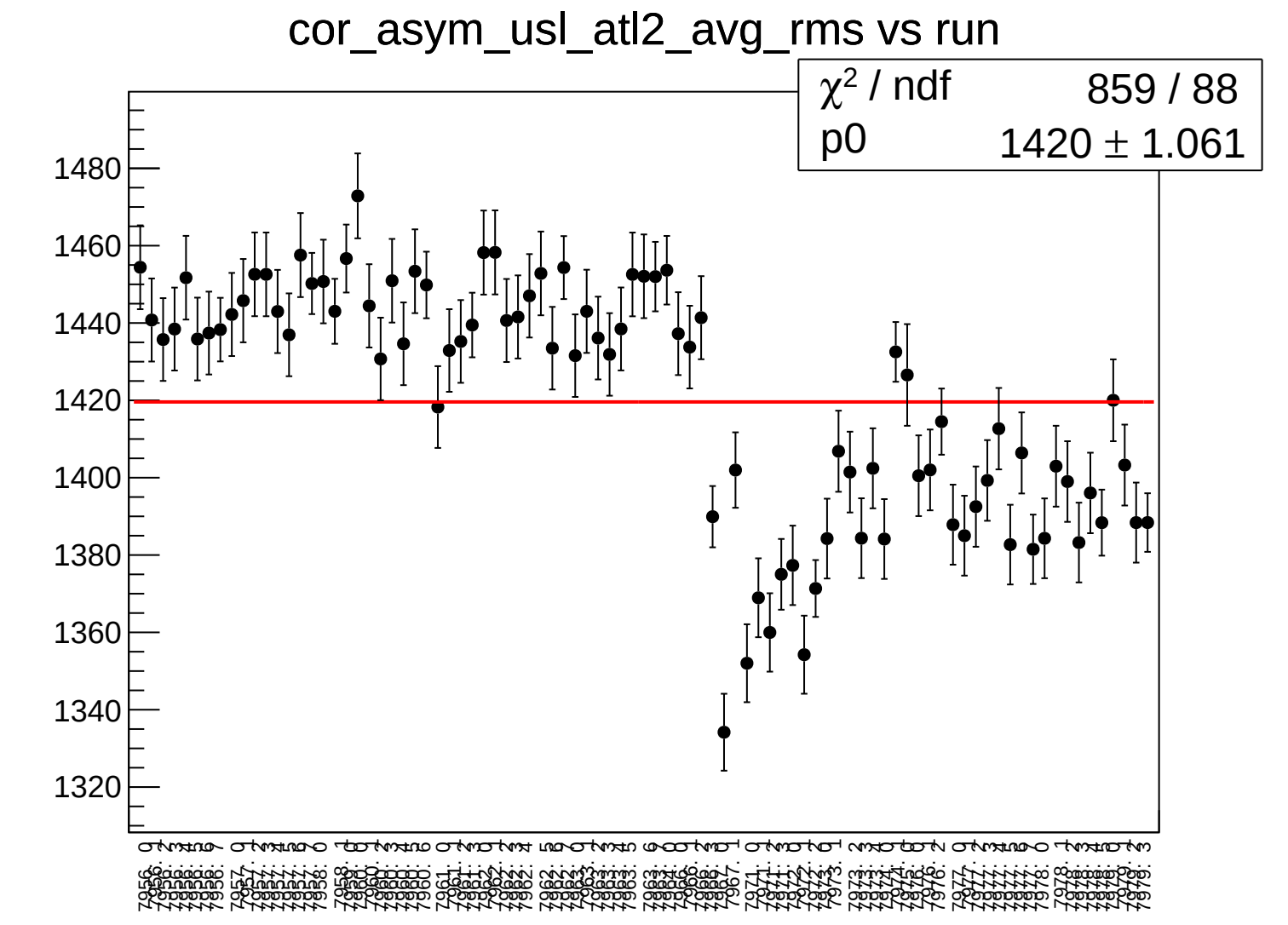

asym_usl_atl2_avg_reg_correction_mean vs run
χ² / ndf 81.97 / 88
p0 5151 ± 5180
×10³
pull
Entries 89
Mean −899
Std Dev 0

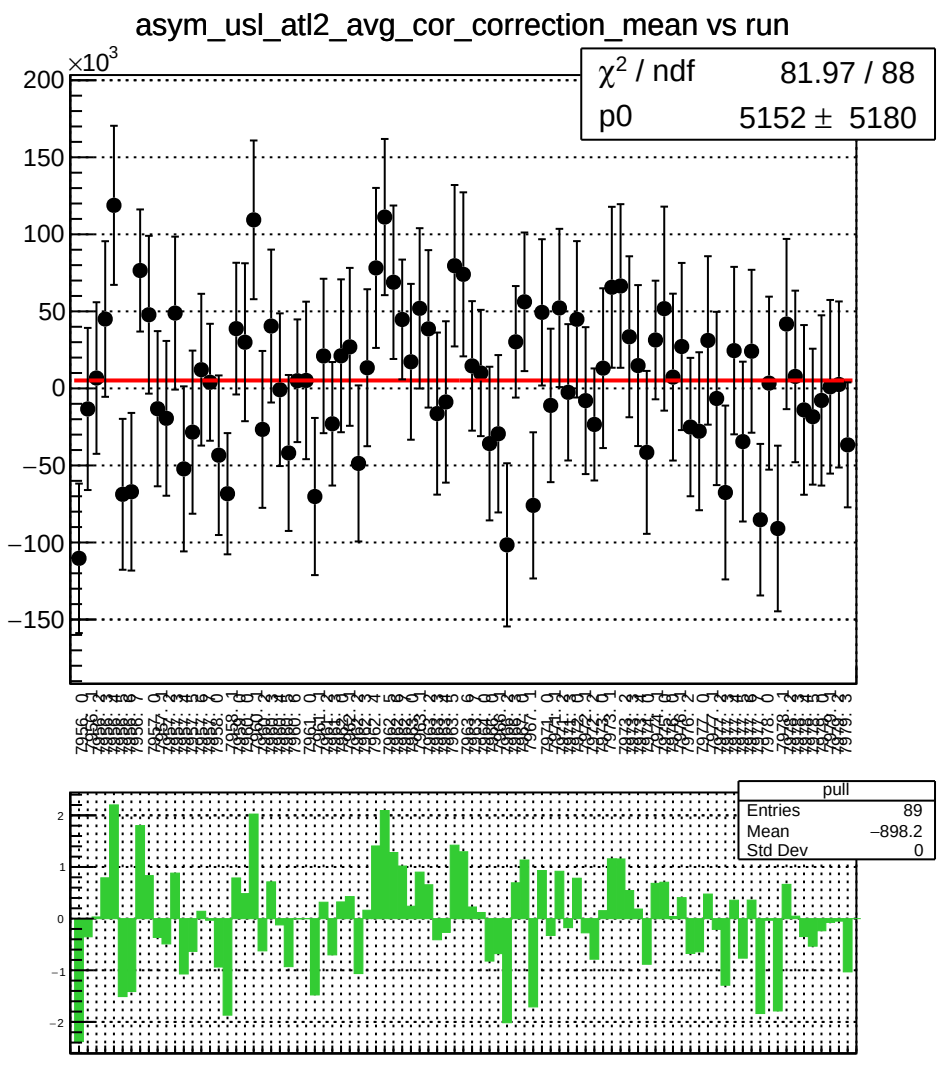

pull1D
Entries 89
Mean 0.001656
Std Dev 0.9597

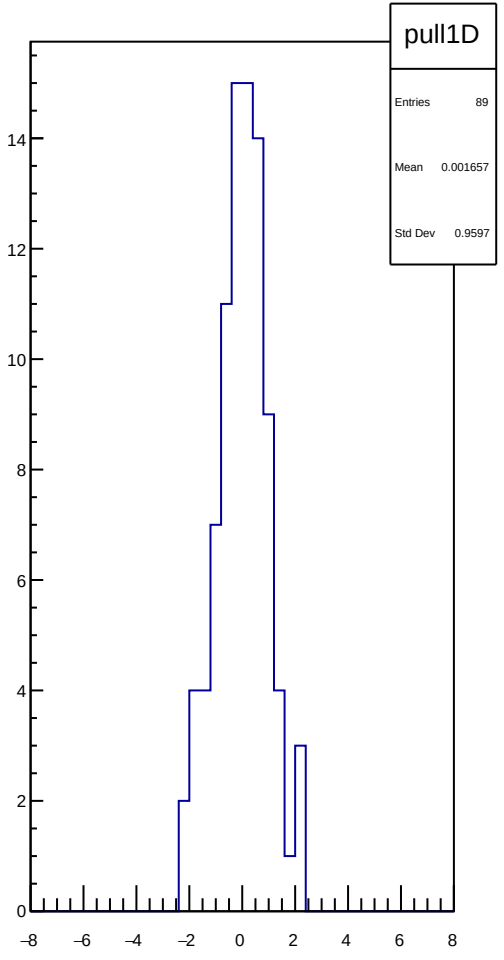

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 3303 / 88
p0 4897 ± 3.663
5400
5200
5000
4800
4600
4400
4200

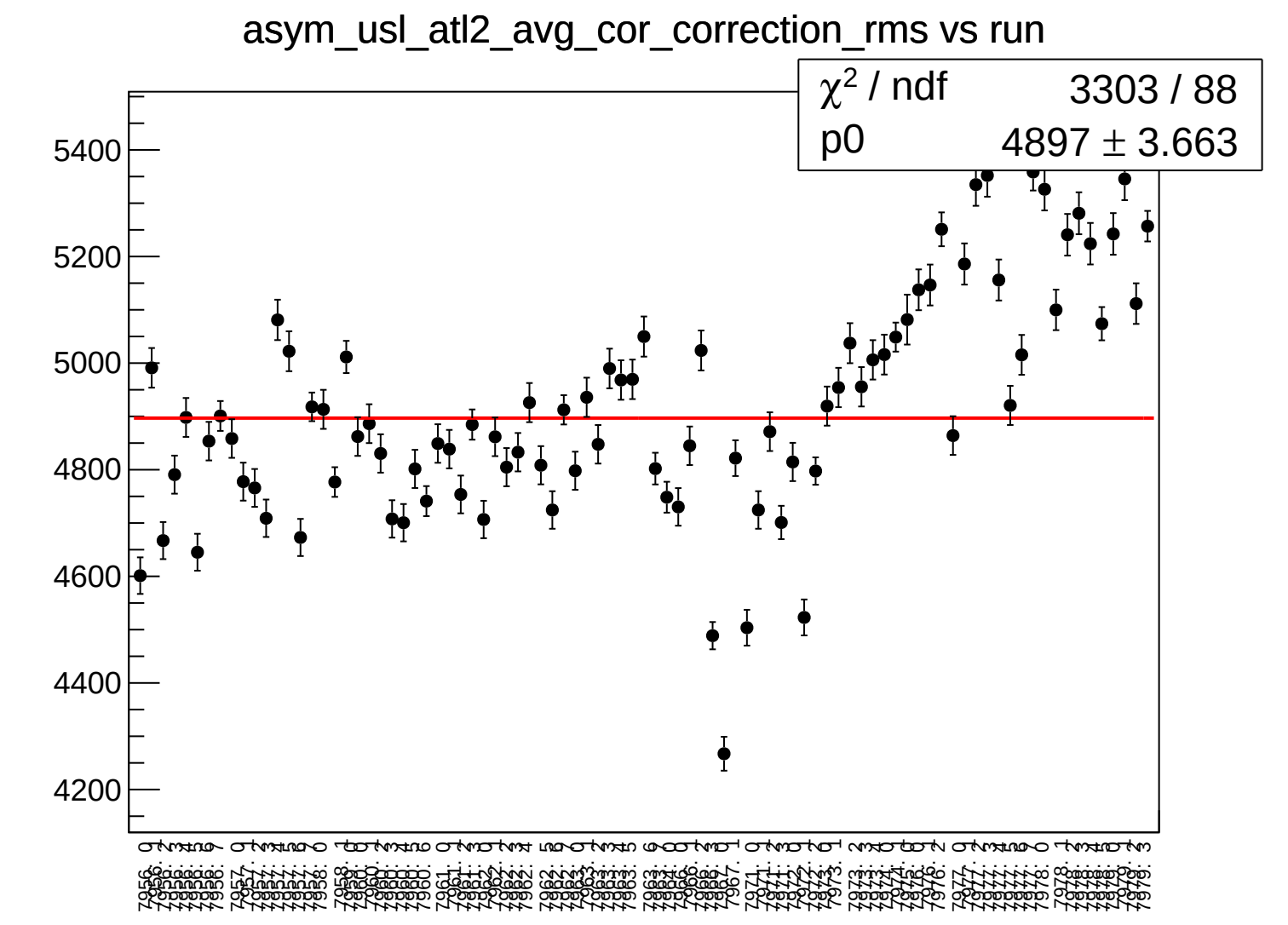

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 73.09 / 88
p0 −3872 ± 1501
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −1863
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

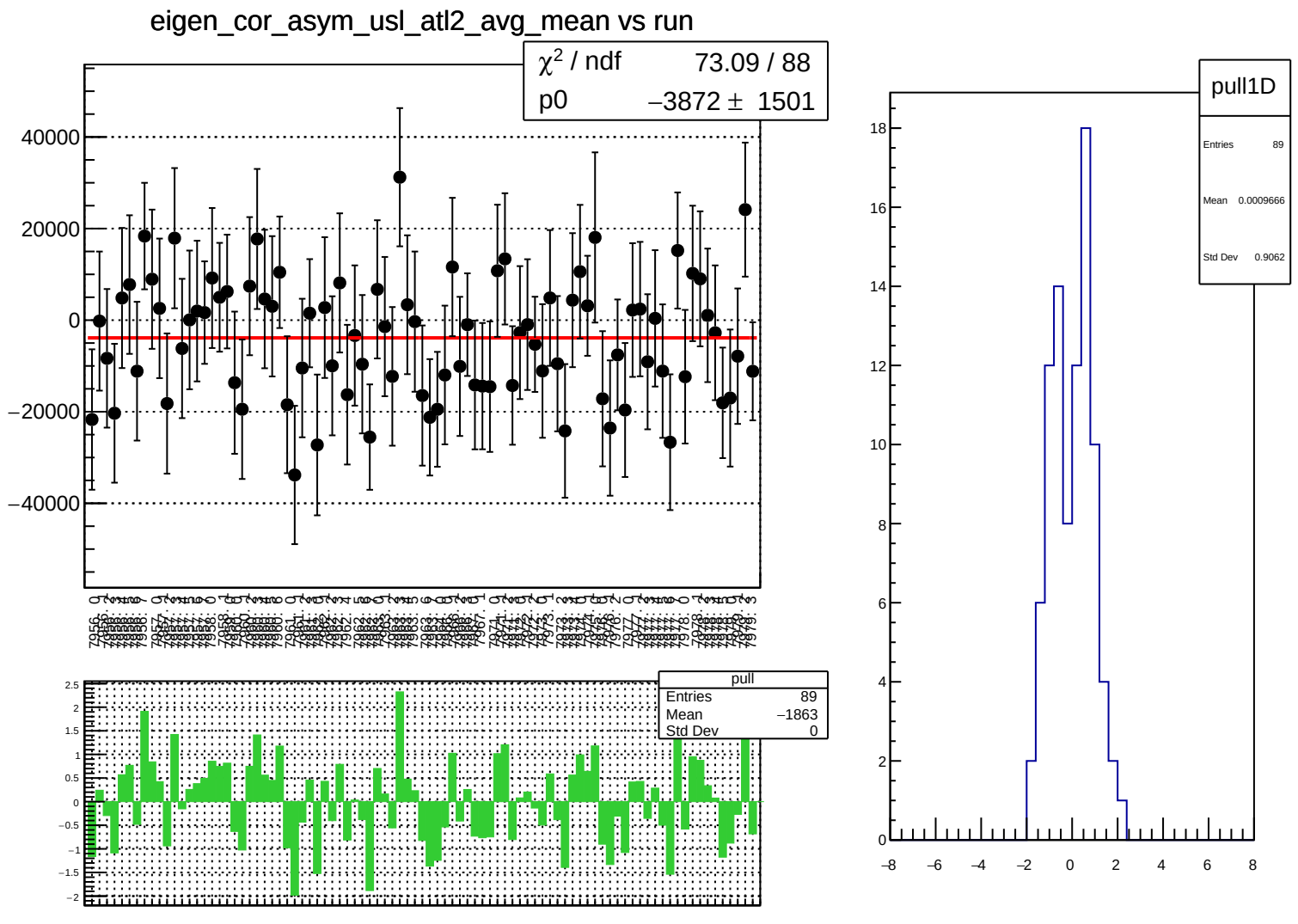

pull1D
Entries 89
Mean 0.0009666
Std Dev 0.9062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

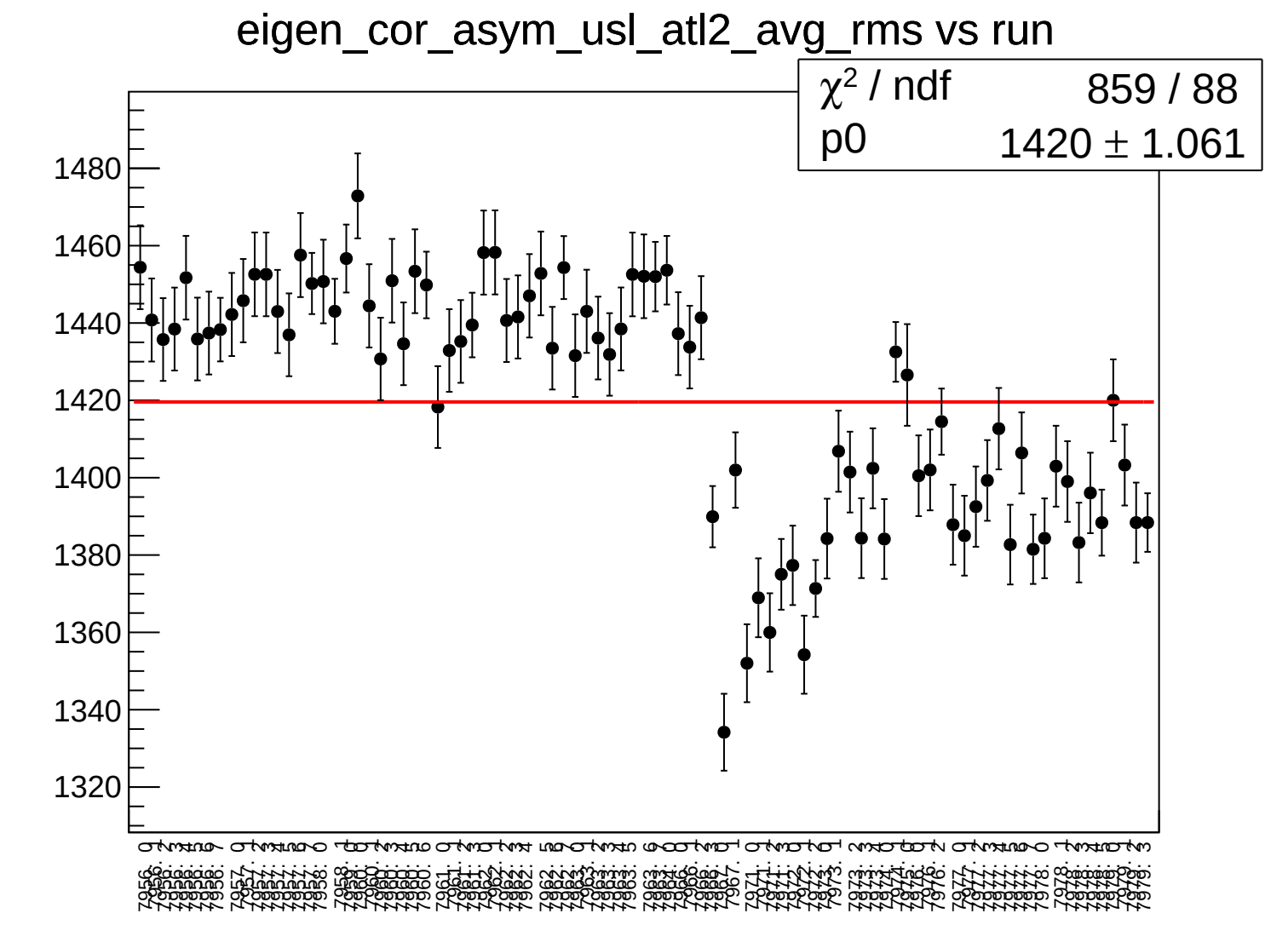

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 859 / 88
p0 1420 ± 1.061
1480
1460
1440
1420
1400
1380
1360
1340
1320

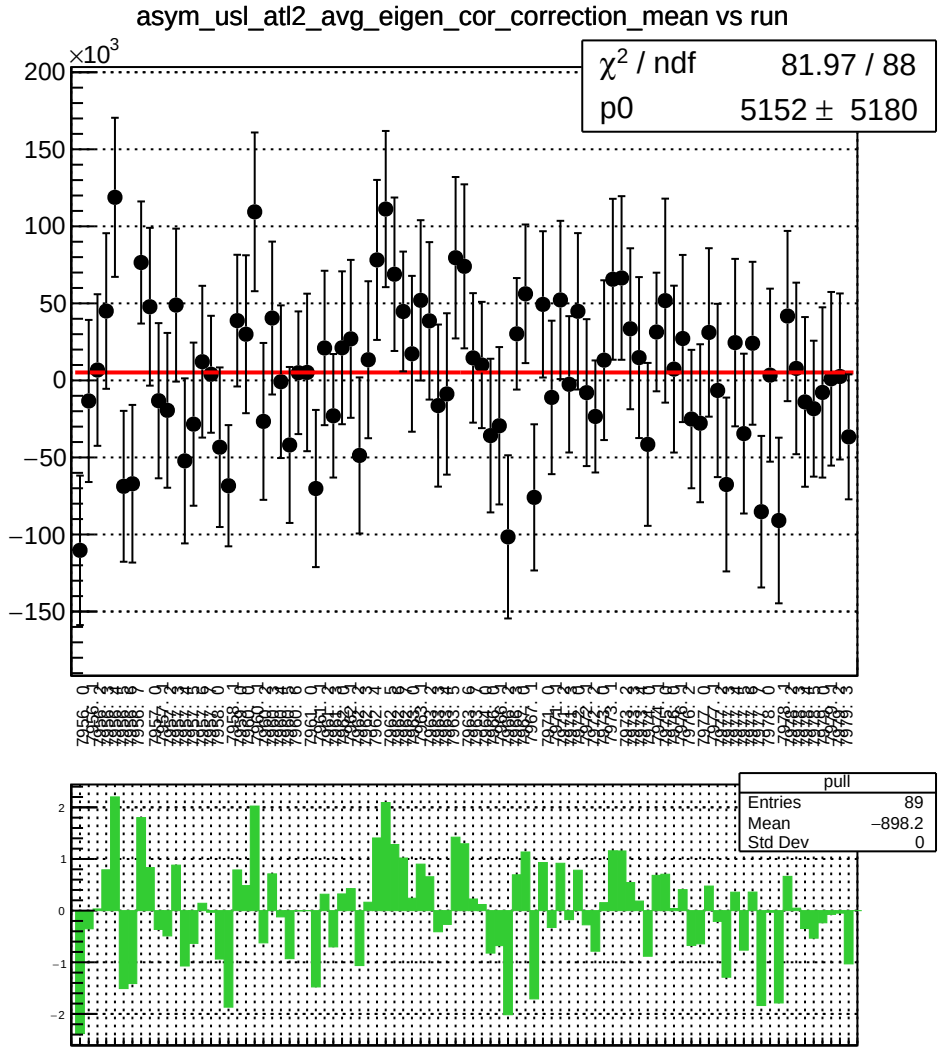

asym_usl_atl2_avg_cor_correction_mean vs run
χ² / ndf 81.97 / 88
p0 5152 ± 5180
×10³
pull
Entries 89
Mean −898.2
Std Dev 0

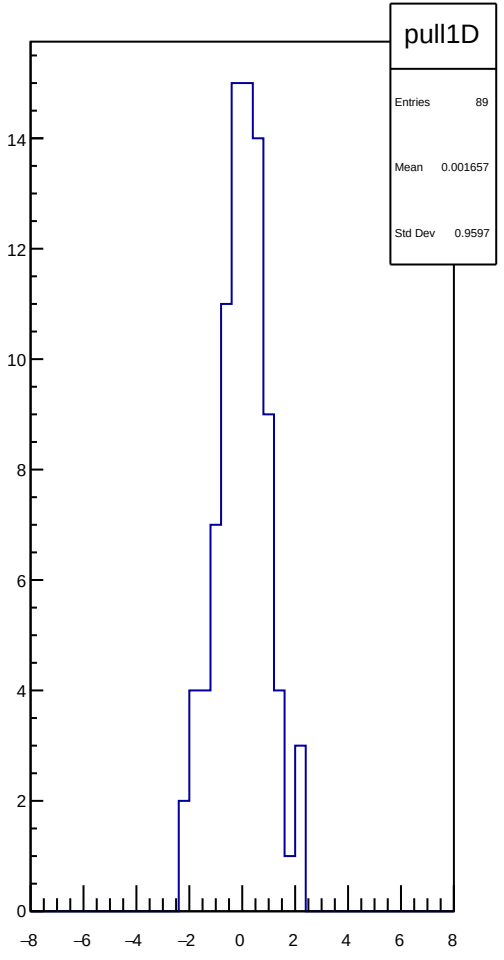

pull1D
Entries 89
Mean 0.001657
Std Dev 0.9597

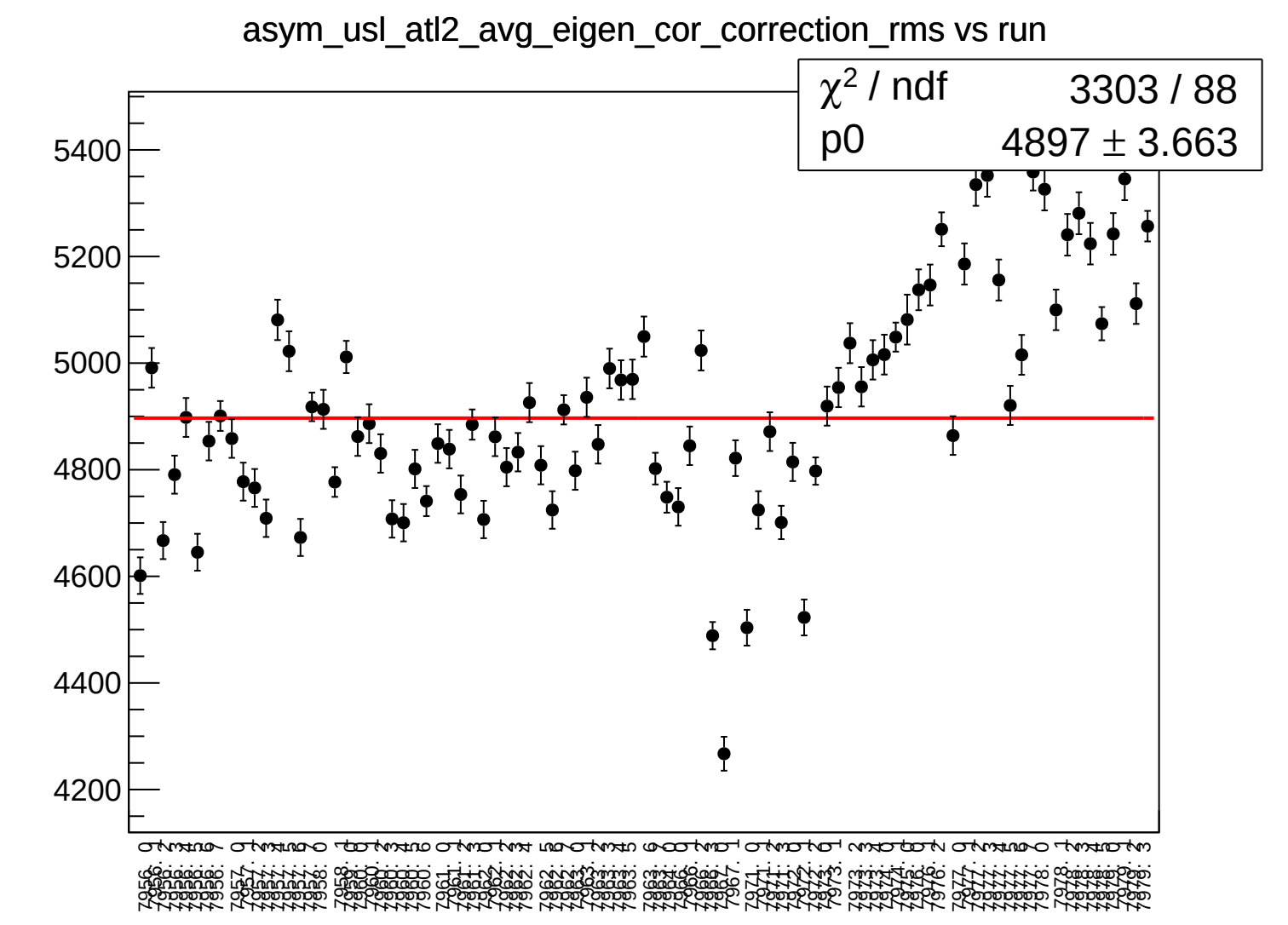

asym_usl_atl2_avg_cor_correction_rms vs run
$\chi^2$ / ndf 3303 / 88
p0 4897 ± 3.663
5400
5200
5000
4800
4600
4400
4200

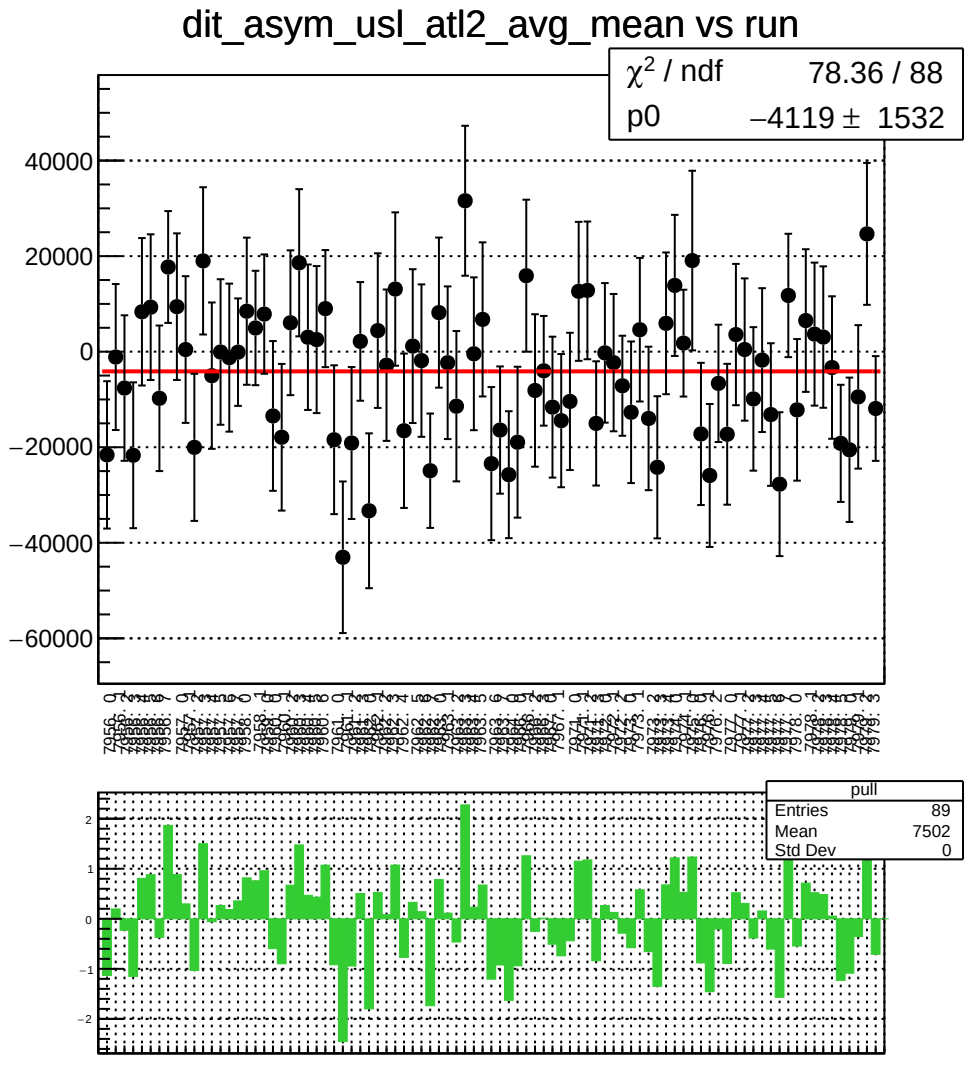

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 73.09 / 88
p0 −3872 ± 1501
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −1863
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.0009666
Std Dev 0.9062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

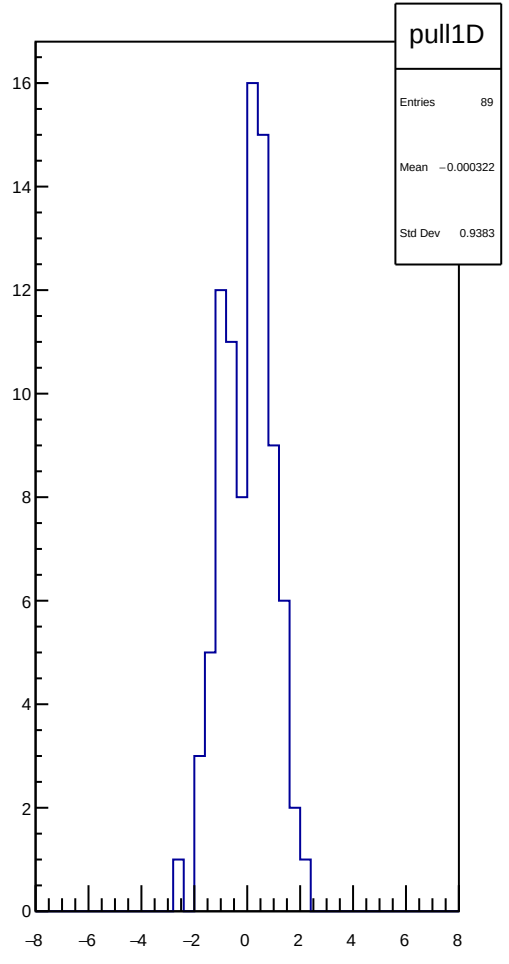

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 859 / 88
p0 1420 ± 1.061
1480
1460
1440
1420
1400
1380
1360
1340
1320

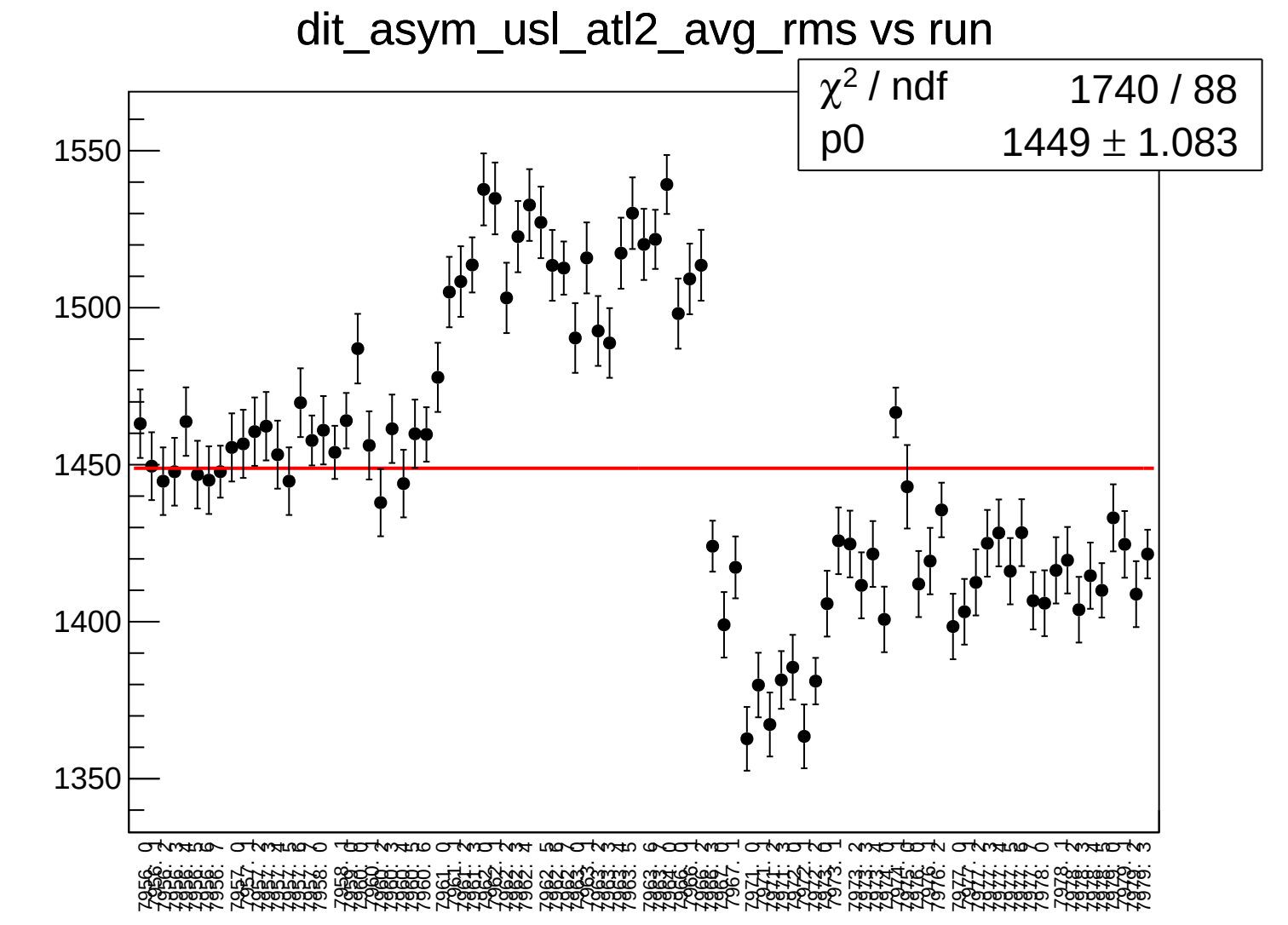

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.97 / 88
p0 5152 ± 5180
pull
Entries 89
Mean −898.2
Std Dev 0

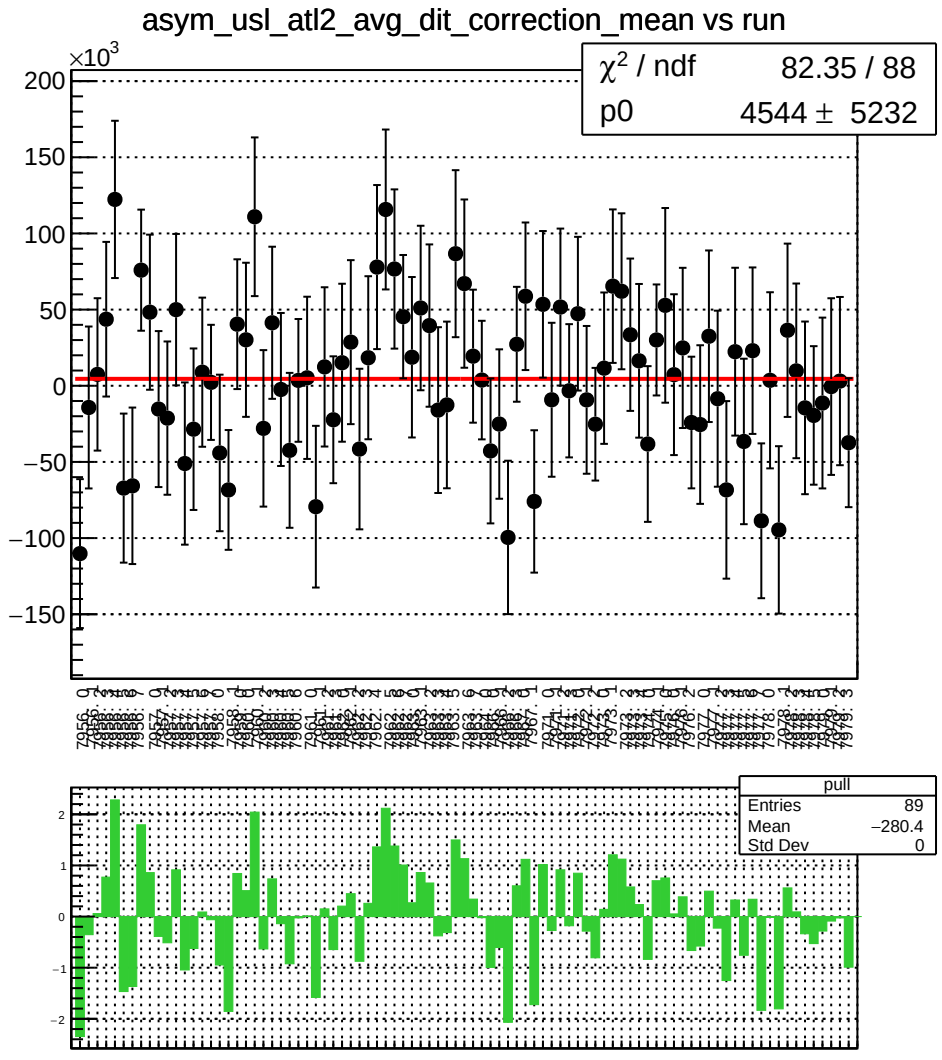

pull1D
Entries 89
Mean 0.001657
Std Dev 0.9597

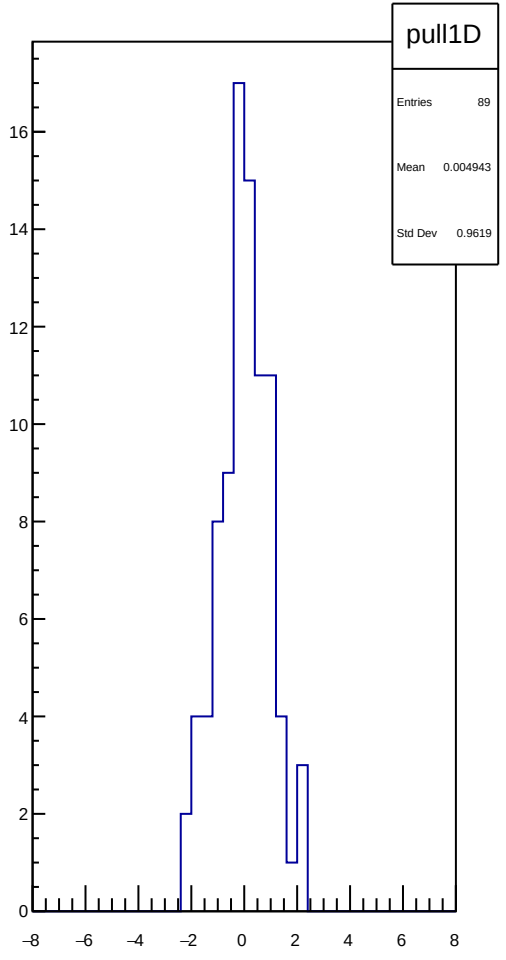

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3303 / 88
p0 4897 ± 3.663
5400
5200
5000
4800
4600
4400
4200

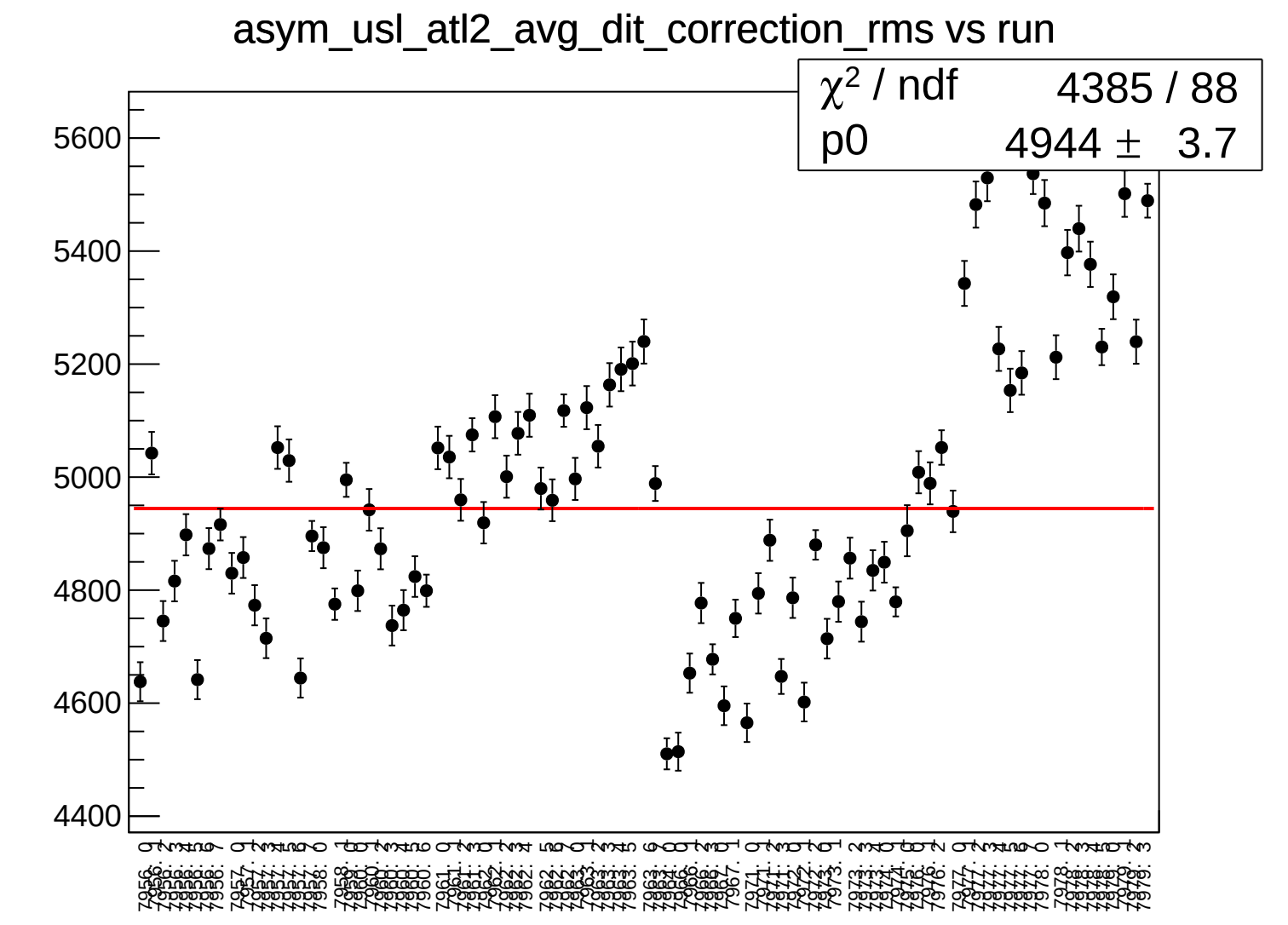

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 78.36 / 88
p0 −4119 ± 1532
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 7502
Std Dev 0
2
1
0
−1
−2

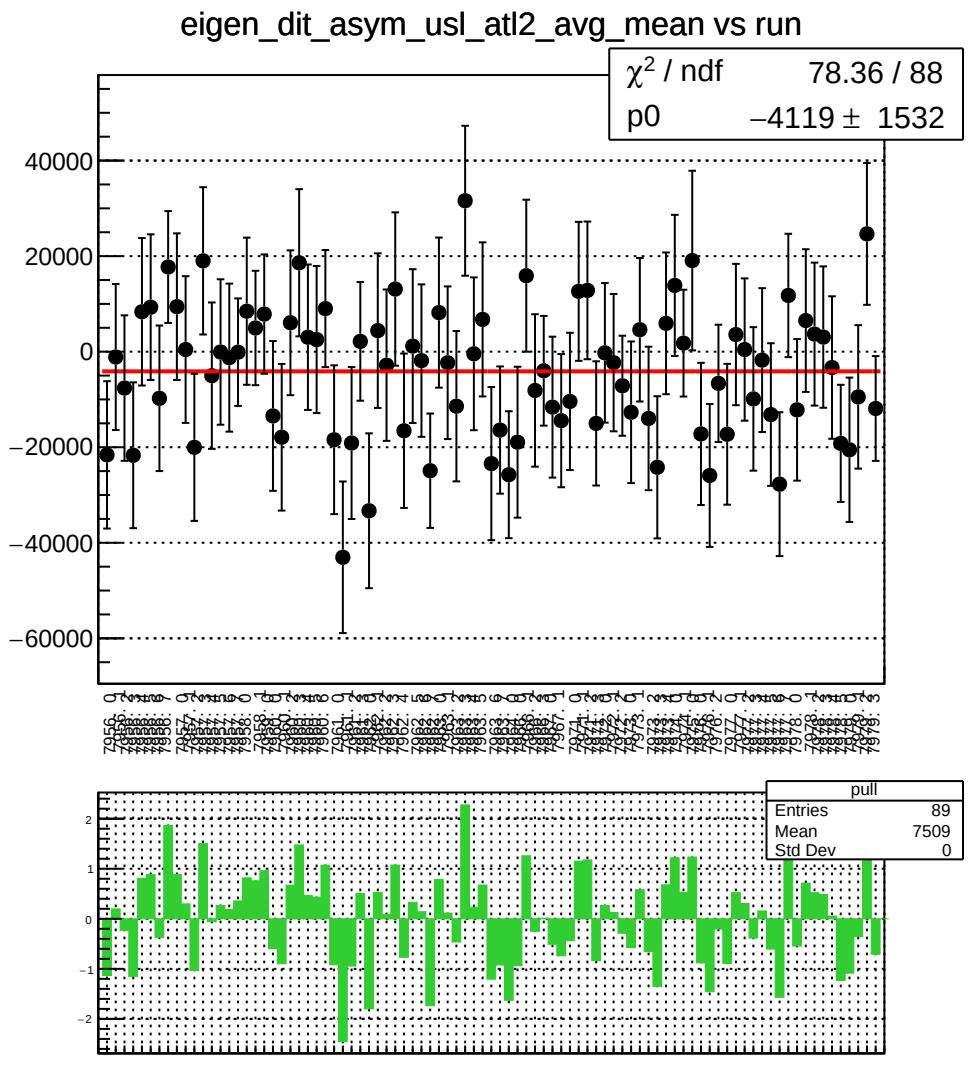

pull1D
Entries 89
Mean −0.000322
Std Dev 0.9383
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

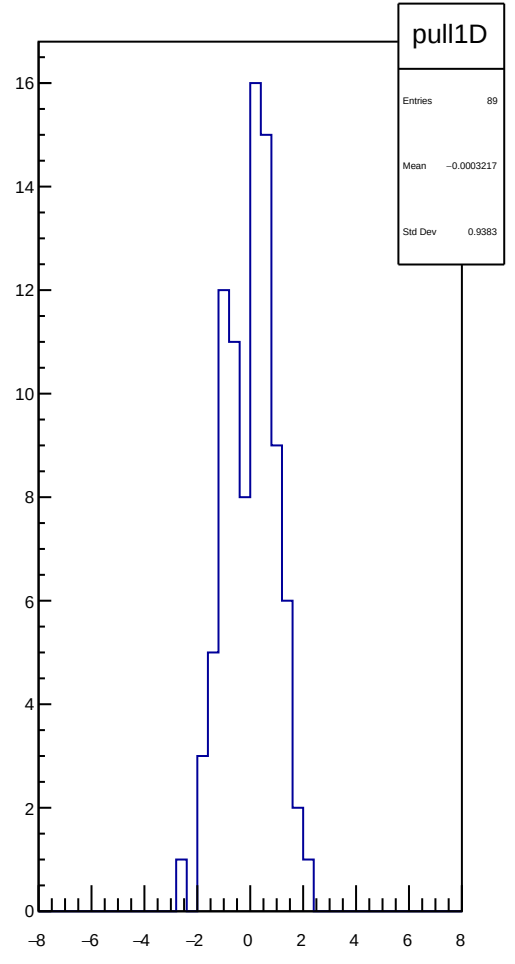

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1740 / 88
p0 1449 ± 1.083
1550
1500
1450
1400
1350

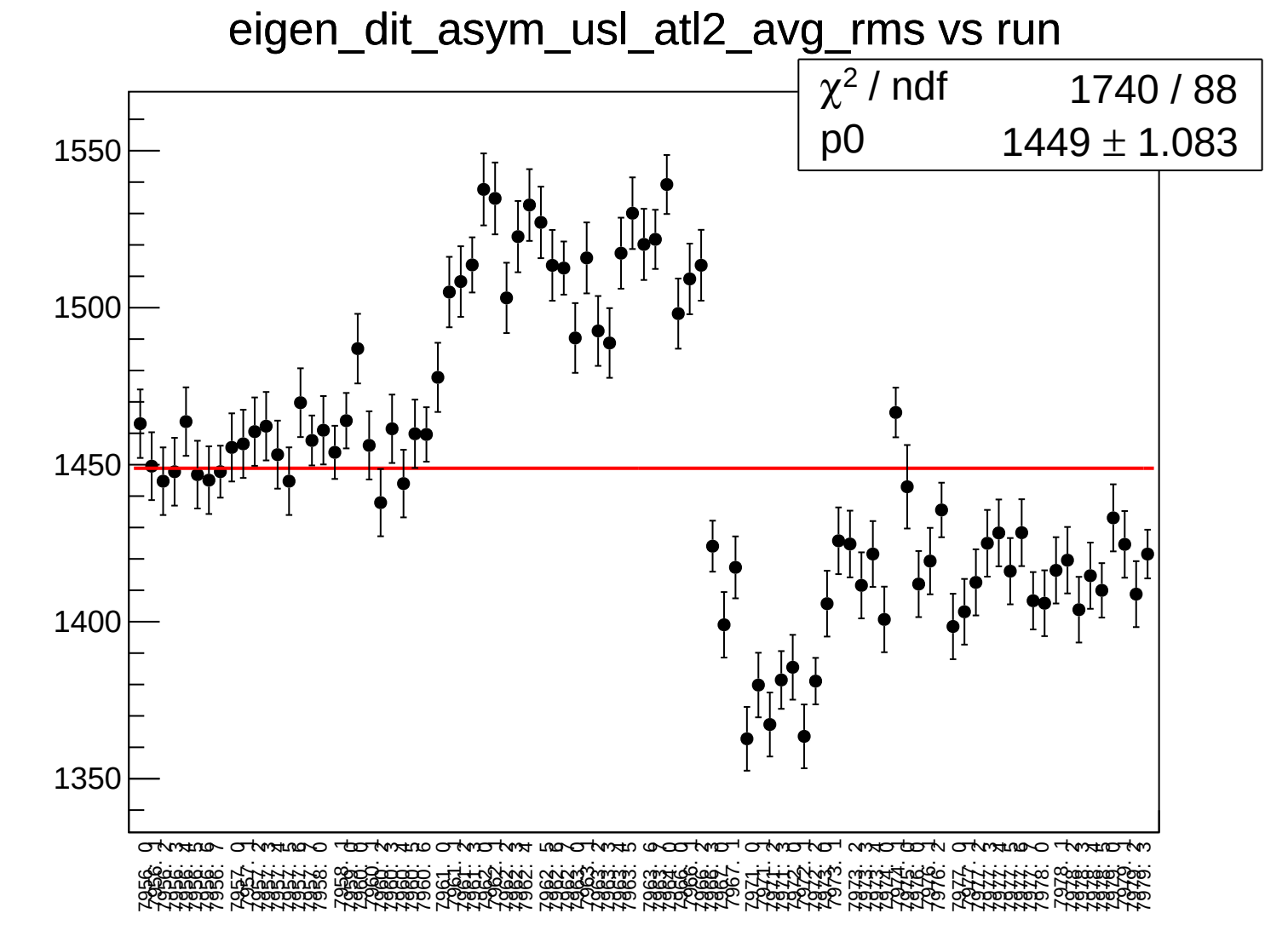

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.35 / 88
p0 4544 ± 5232
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −280.4
Std Dev 0
2
1
0
−1
−2

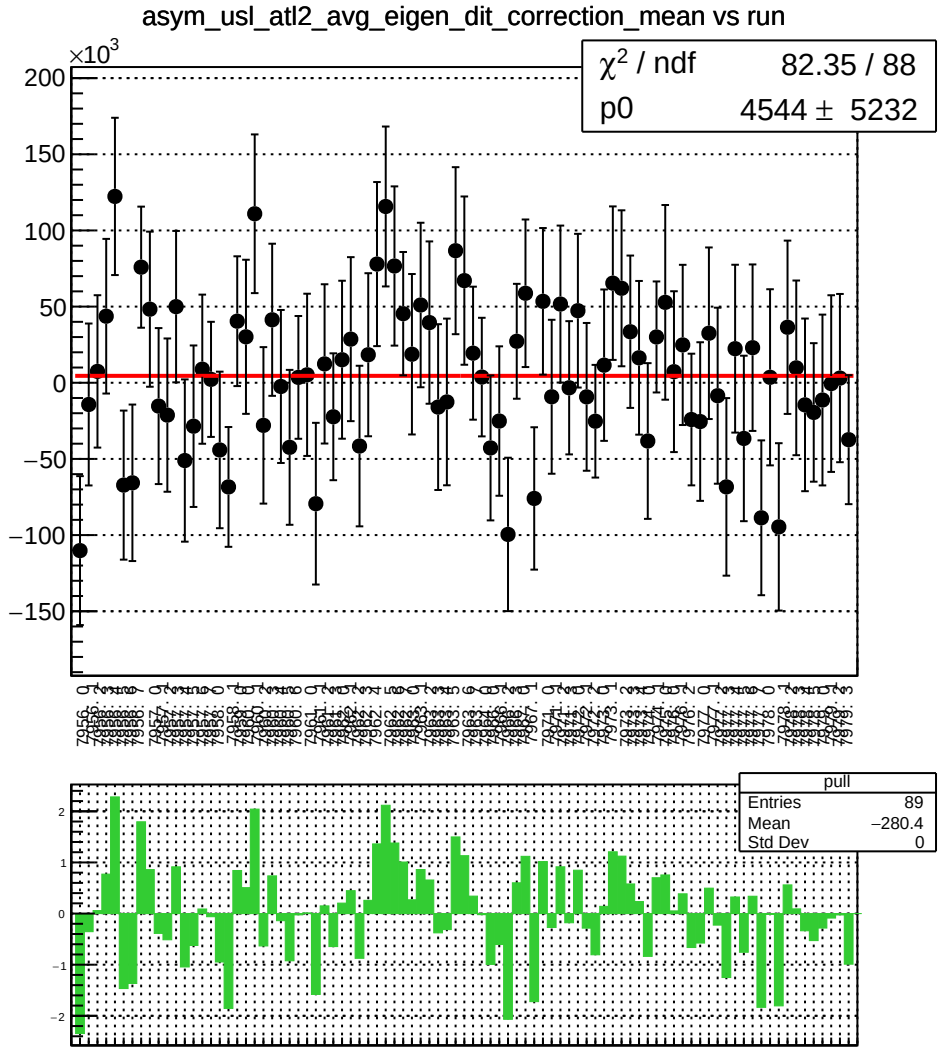

pull1D
Entries 89
Mean 0.004943
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

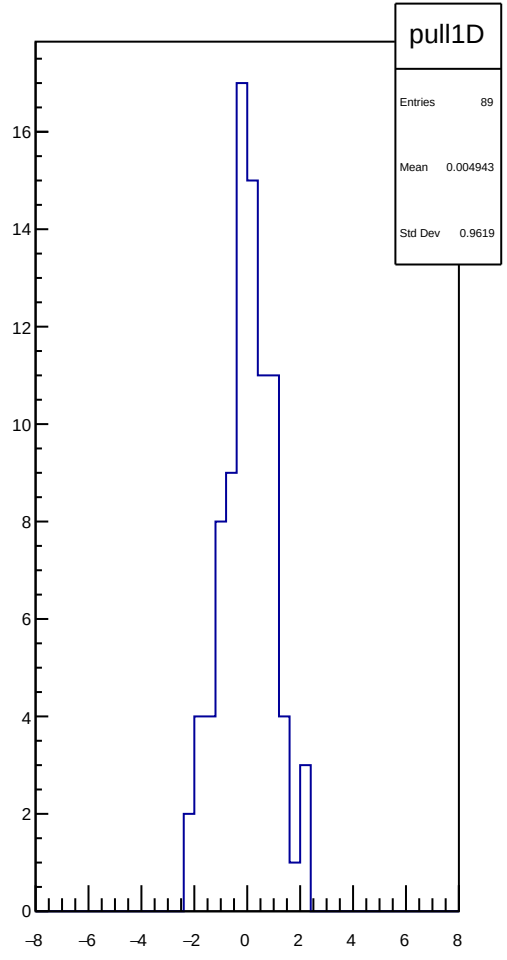

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 4385 / 88
p0 4944 ± 3.7
5600
5400
5200
5000
4800
4600
4400

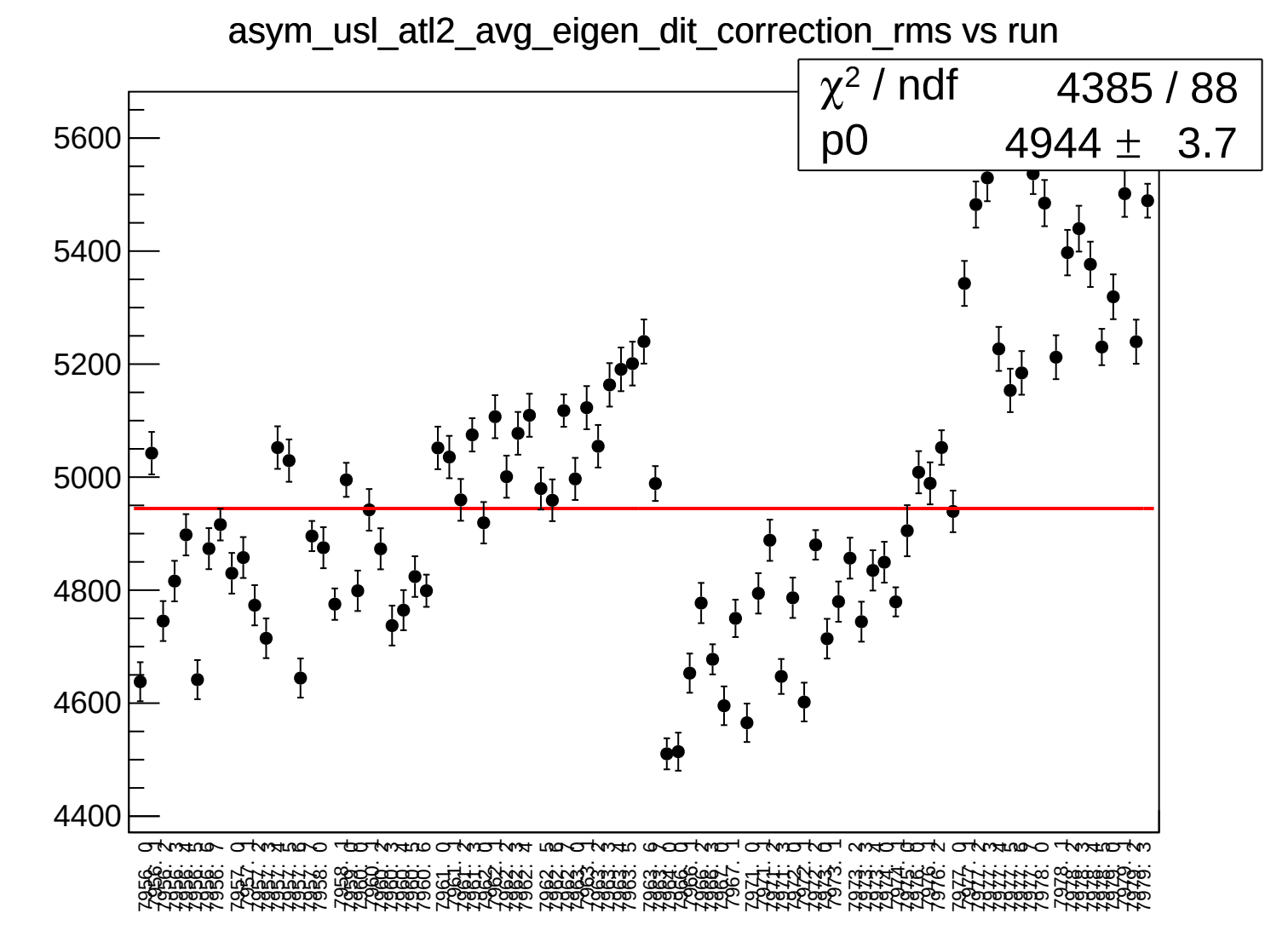

eigen_dit_asym_usl_atl2_avg_mean vs run
$\chi^2$ / ndf 78.36 / 88
p0 −4119 ± 1532
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 7509
Std Dev 0
2
1
0
−1
−2

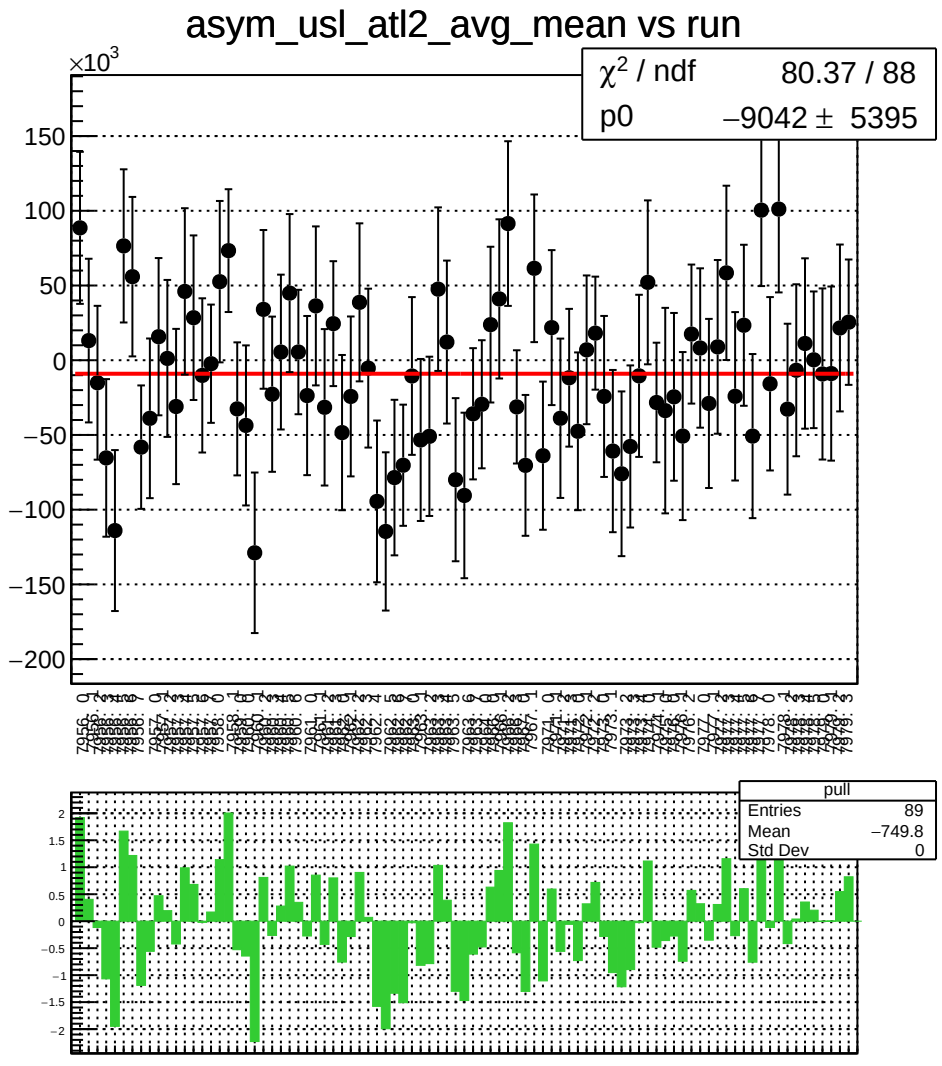

pull1D
Entries 89
Mean −0.0003217
Std Dev 0.9383
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

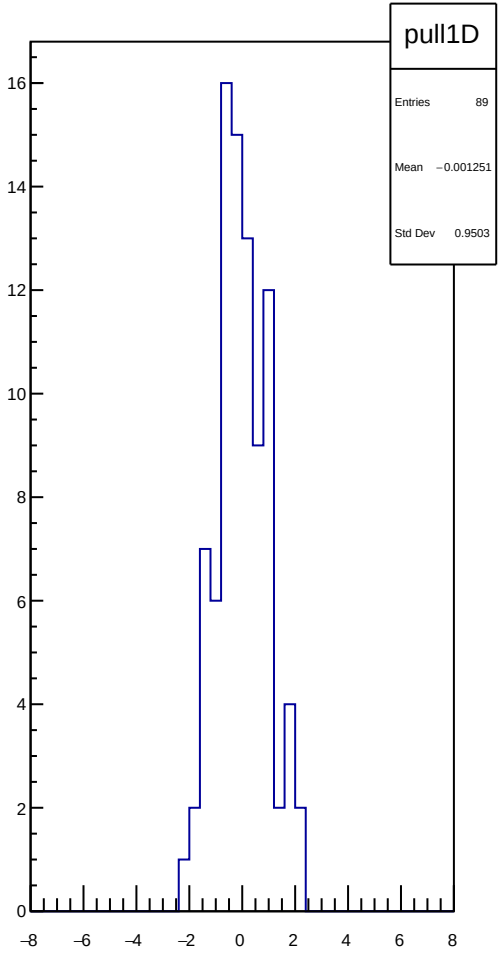

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1740 / 88
p0 1449 ± 1.083
1550
1500
1450
1400
1350

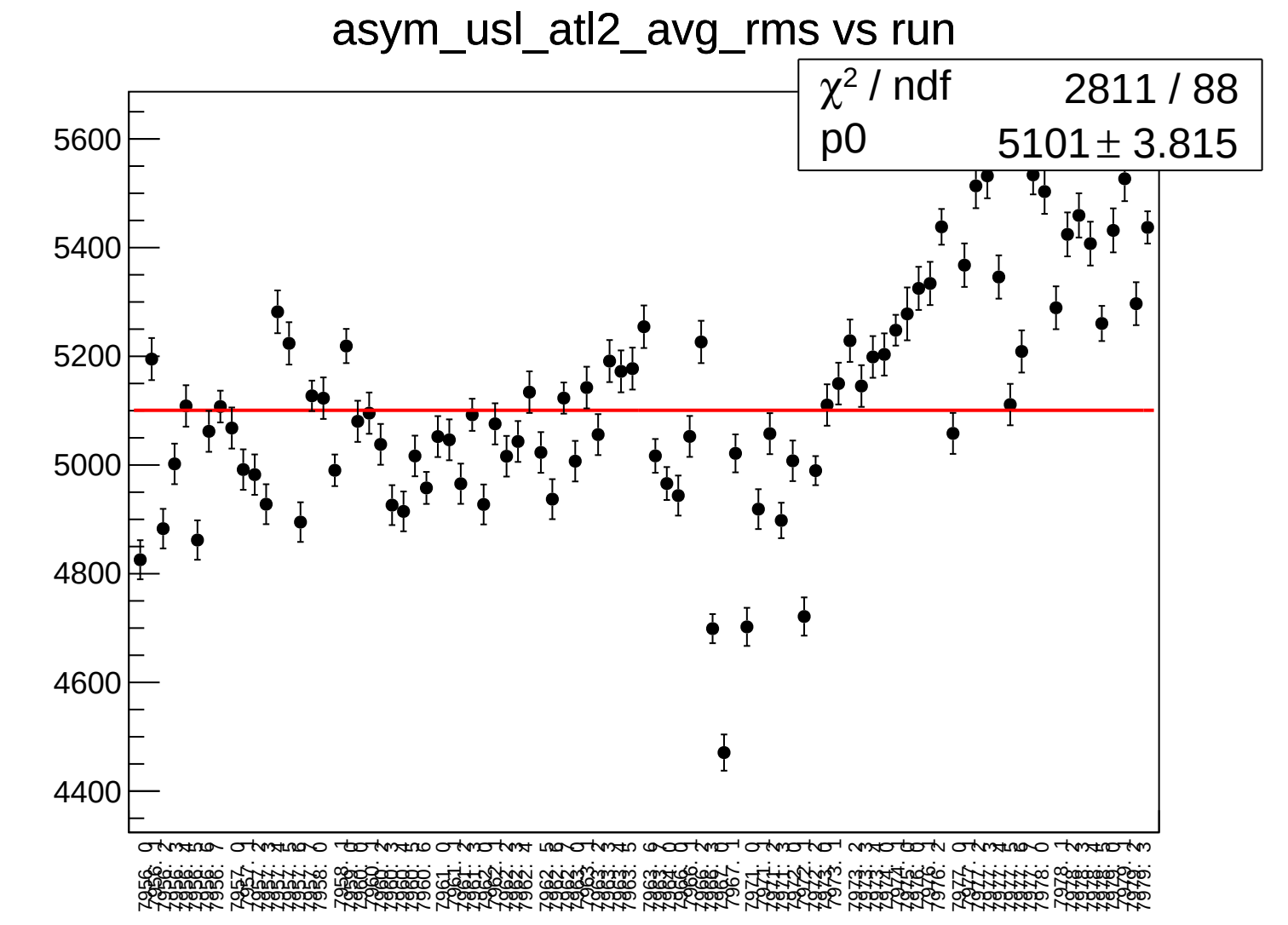

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.35 / 88
p0 4544 ± 5232
pull
Entries 89
Mean −280.4
Std Dev 0

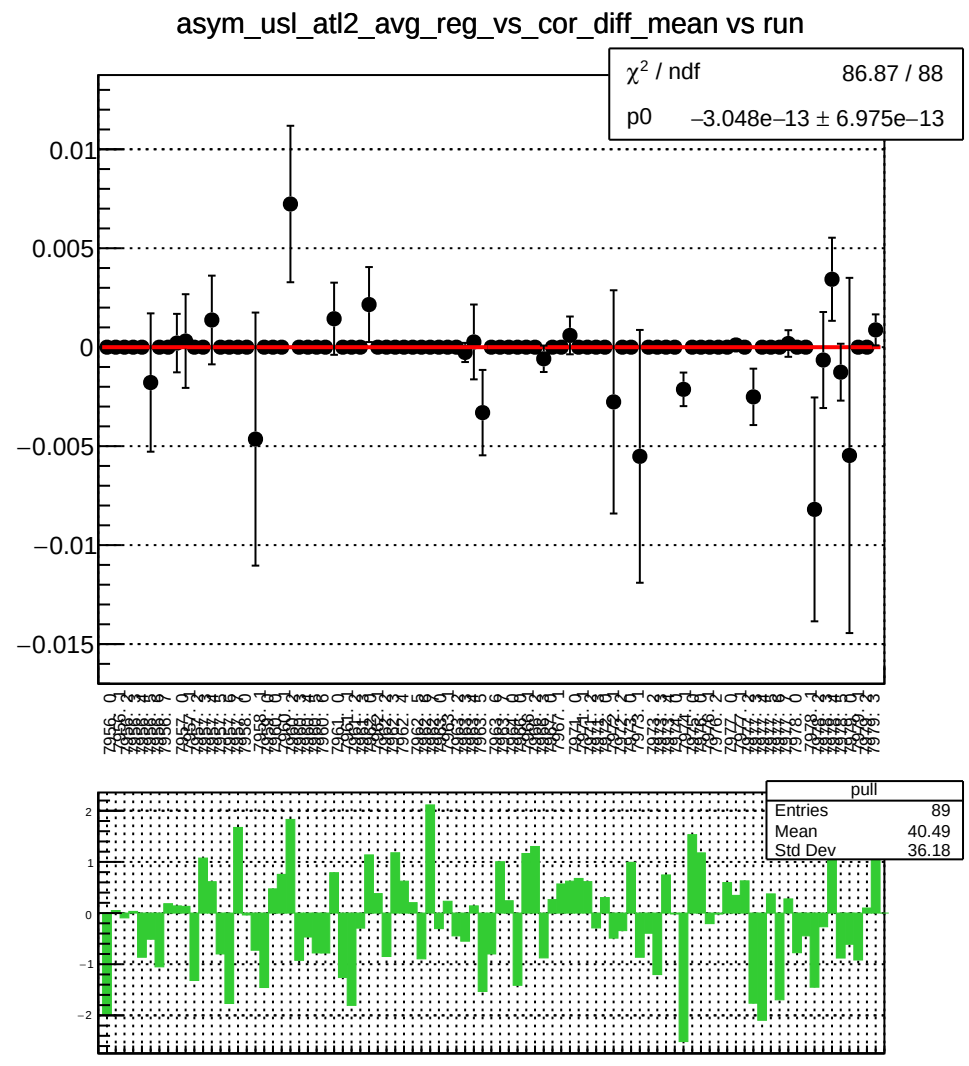

pull1D
Entries 89
Mean 0.004943
Std Dev 0.9619

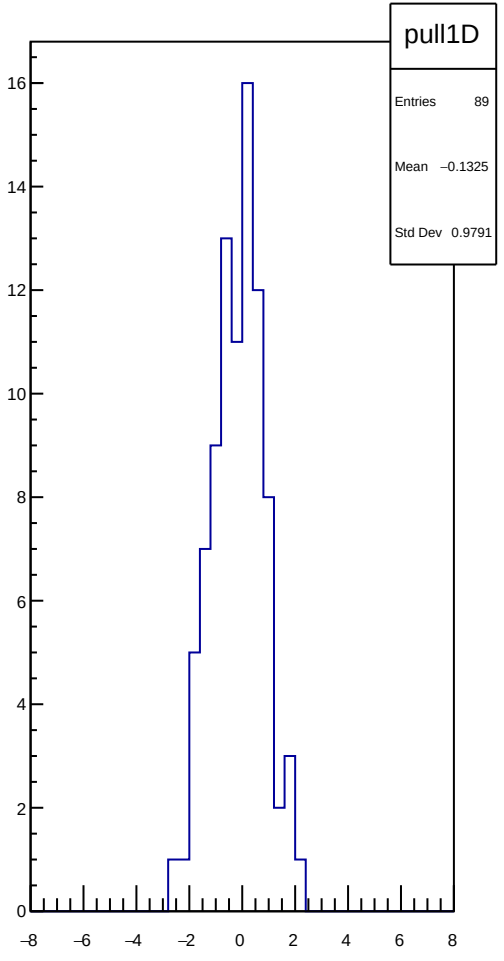

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4385 / 88
p0 4944 ± 3.7
5600
5400
5200
5000
4800
4600
4400

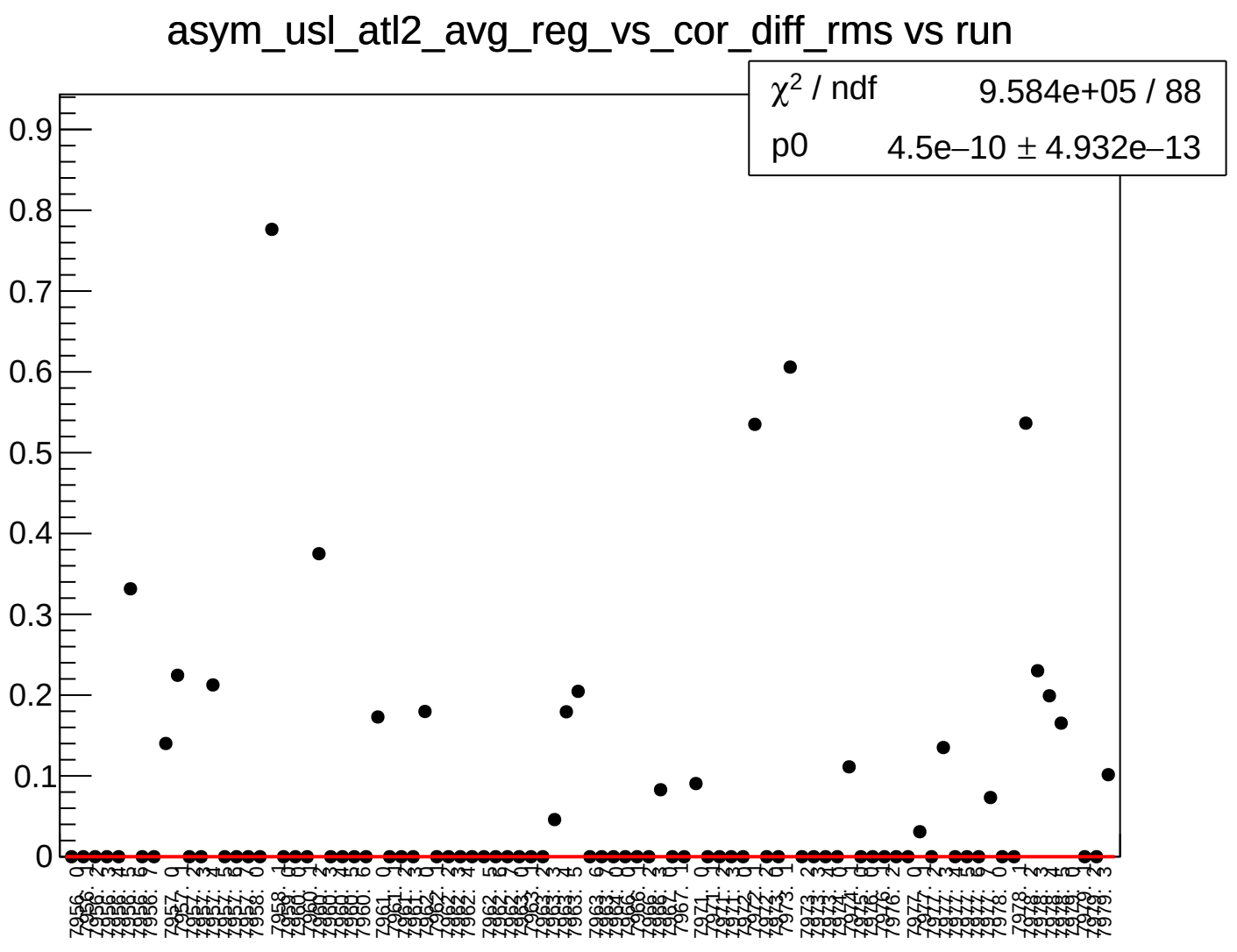

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 80.37 / 88
p0 −9042 ± 5395
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −749.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

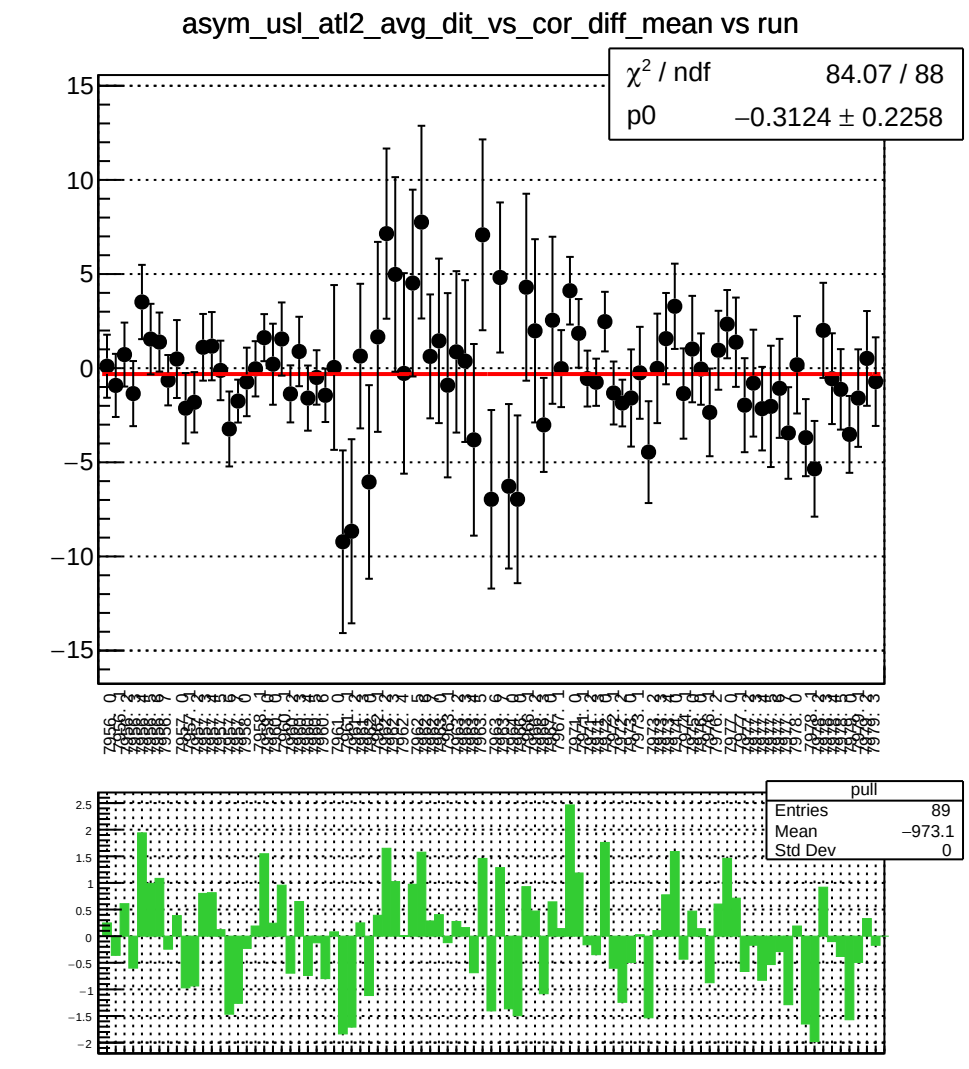

pull1D
Entries 89
Mean −0.001251
Std Dev 0.9503
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

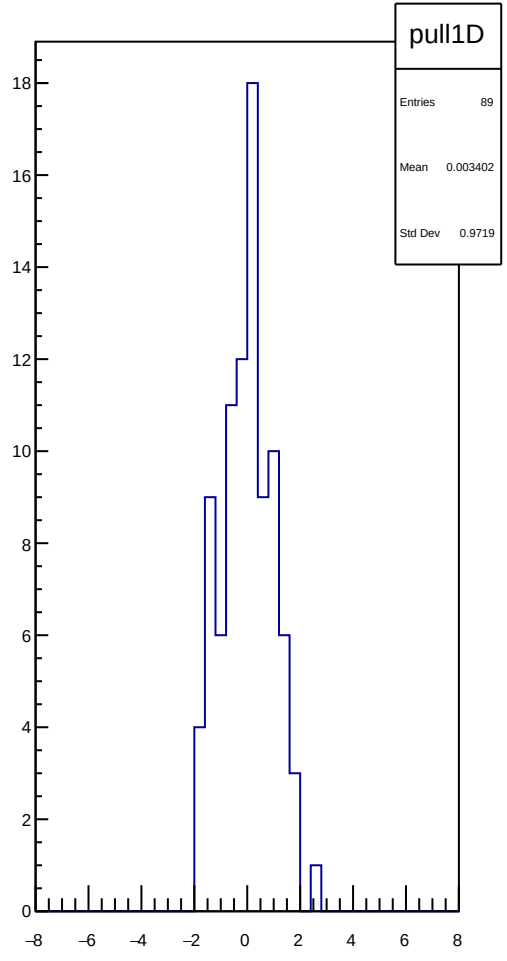

asym_usl_atl2_avg_rms vs run
χ² / ndf 2811 / 88
p0 5101 ± 3.815
5600
5400
5200
5000
4800
4600
4400

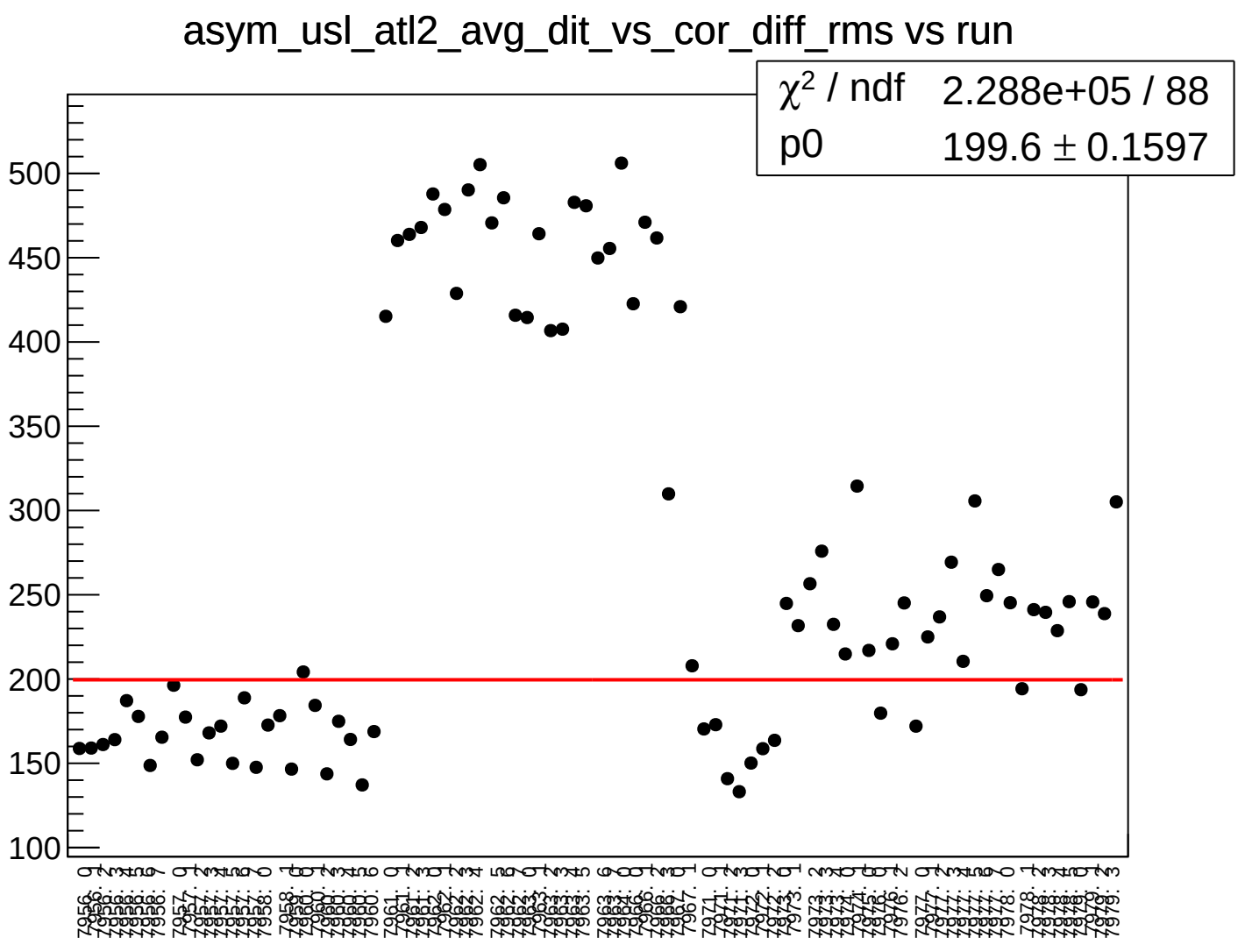

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.87 / 88
p0 −3.048e−13 ± 6.975e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 40.49
Std Dev 36.18
2
1
0
−1
−2

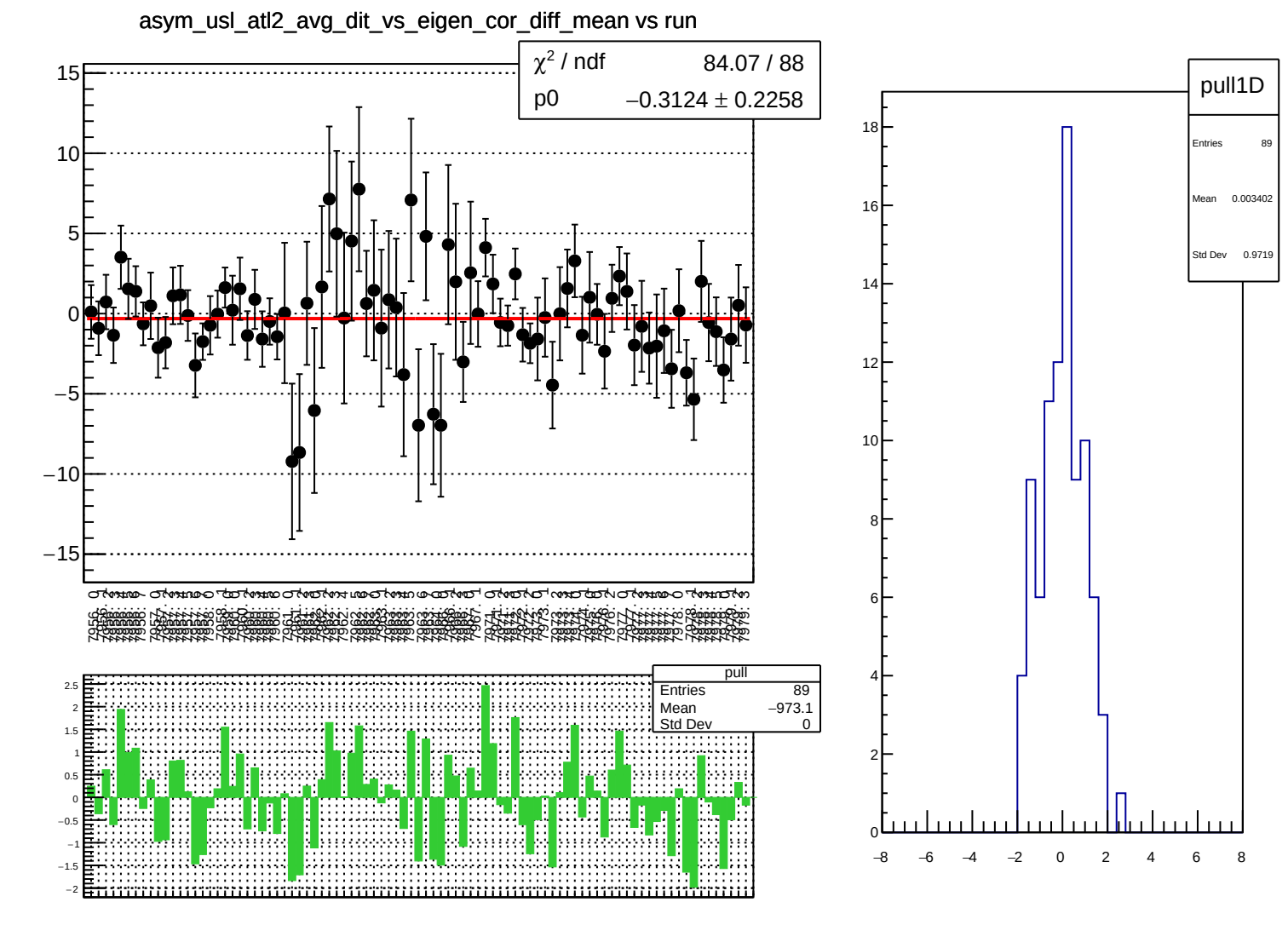

pull1D
Entries 89
Mean −0.1325
Std Dev 0.9791
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

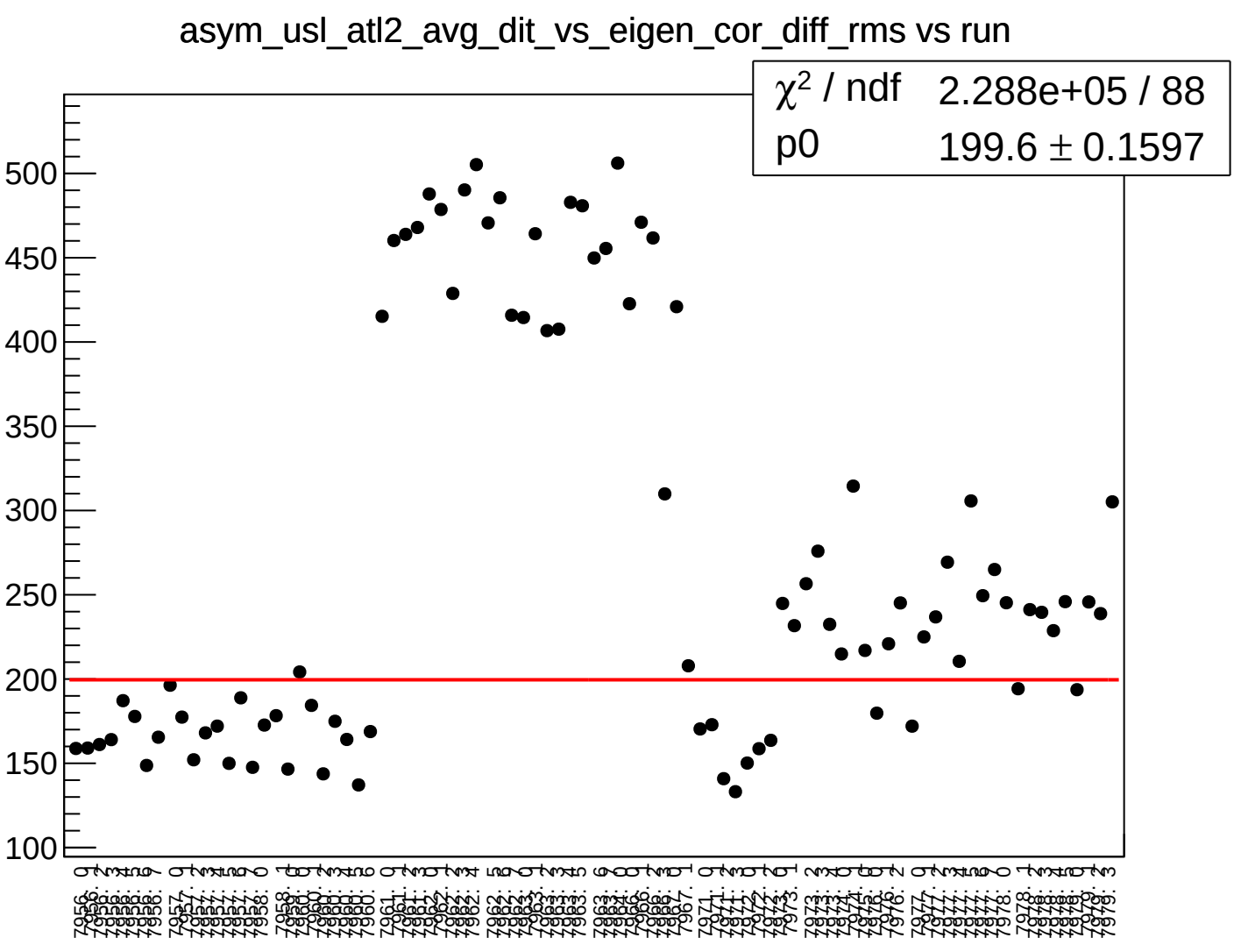

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.584e+05 / 88
p0 4.5e−10 ± 4.932e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

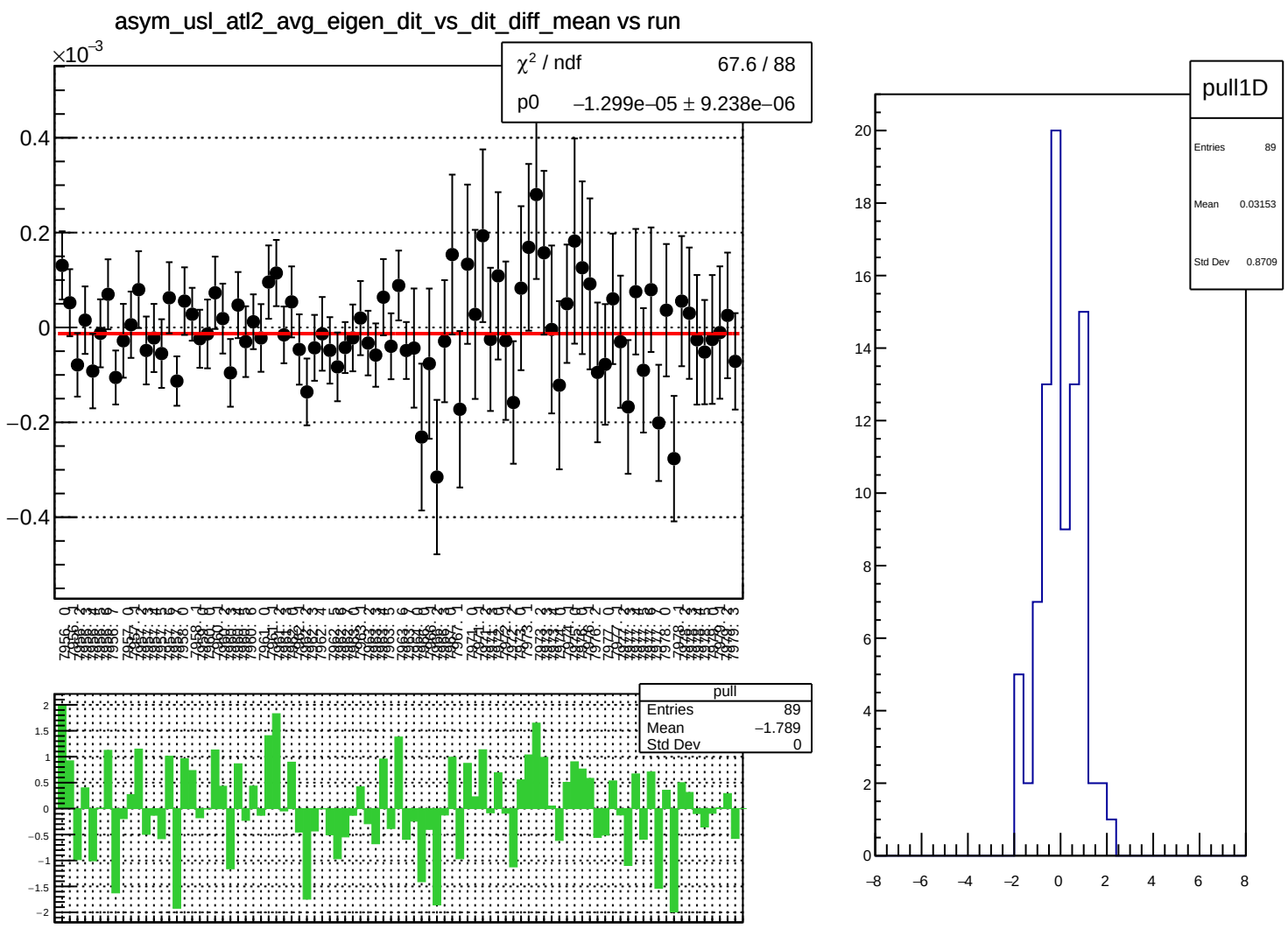

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.07 / 88
p0 −0.3124 ± 0.2258
pull
Entries 89
Mean −973.1
Std Dev 0

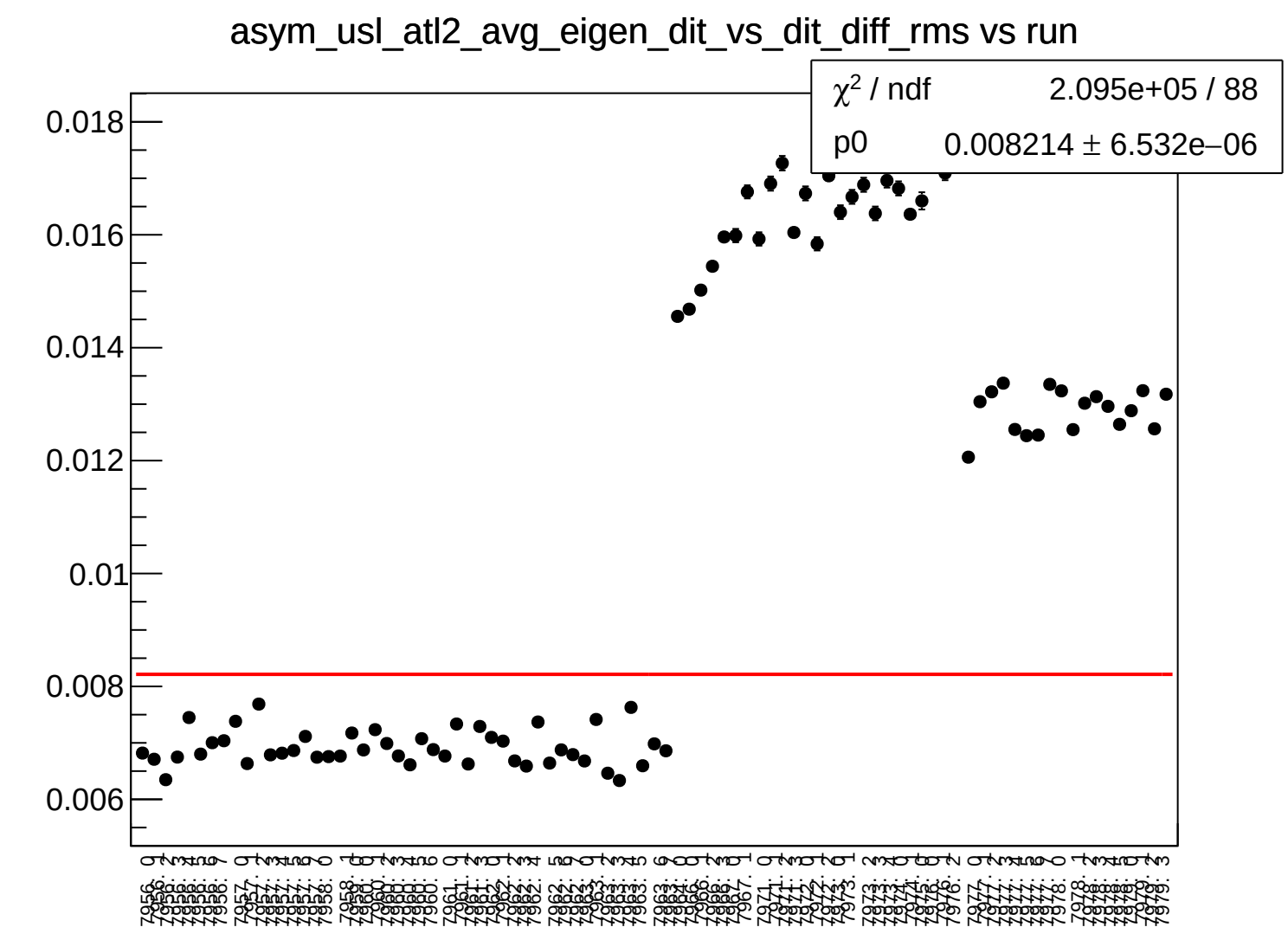

pull1D
Entries 89
Mean 0.003402
Std Dev 0.9719

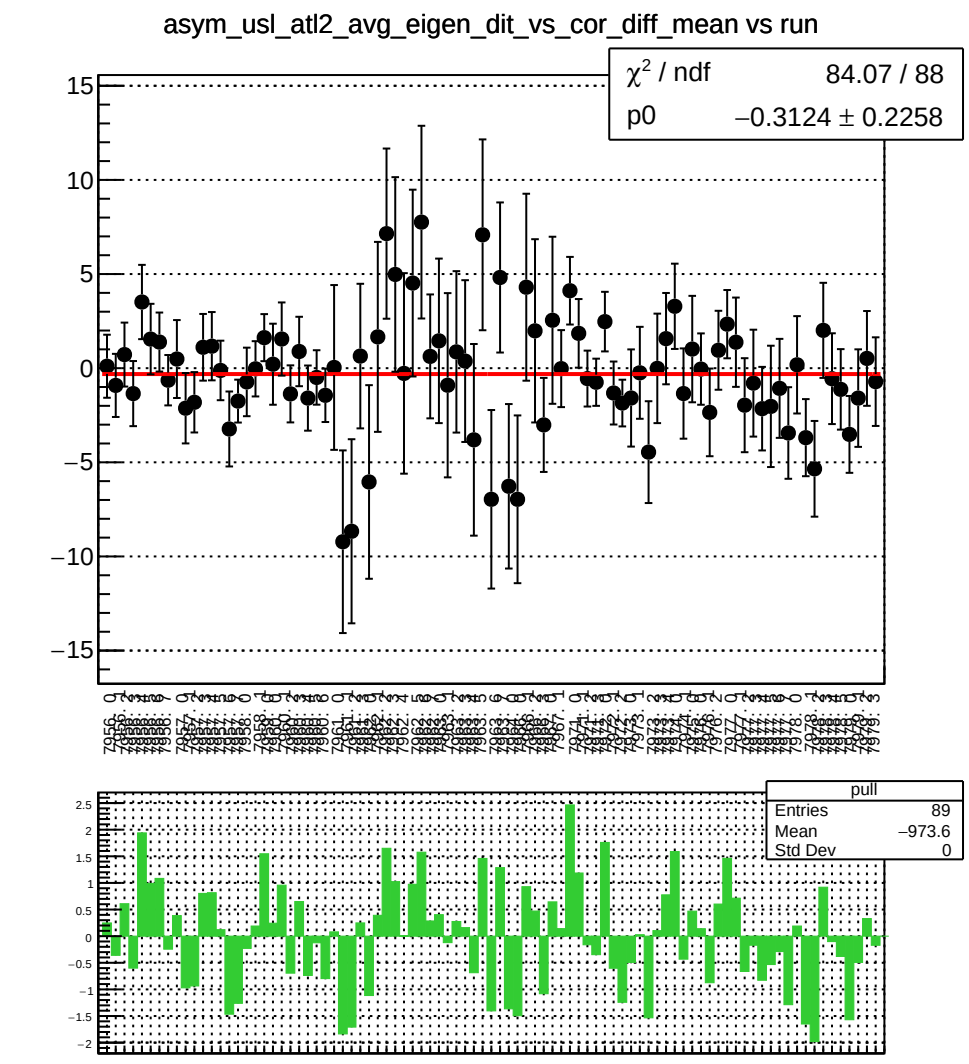

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.288e+05 / 88
p0 199.6 ± 0.1597
500
450
400
350
300
250
200
150
100

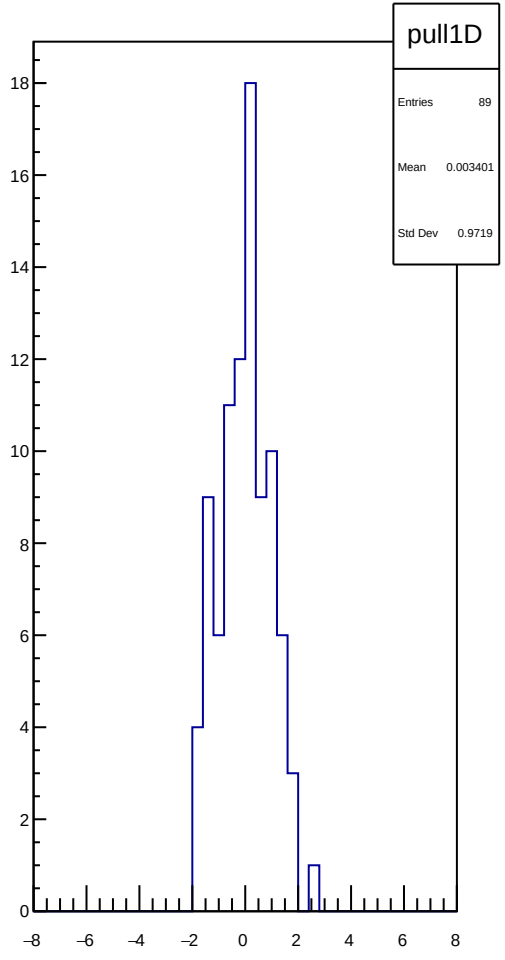

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.07 / 88
p0 −0.3124 ± 0.2258
pull
Entries 89
Mean −973.1
Std Dev 0
pull1D
Entries 89
Mean 0.003402
Std Dev 0.9719

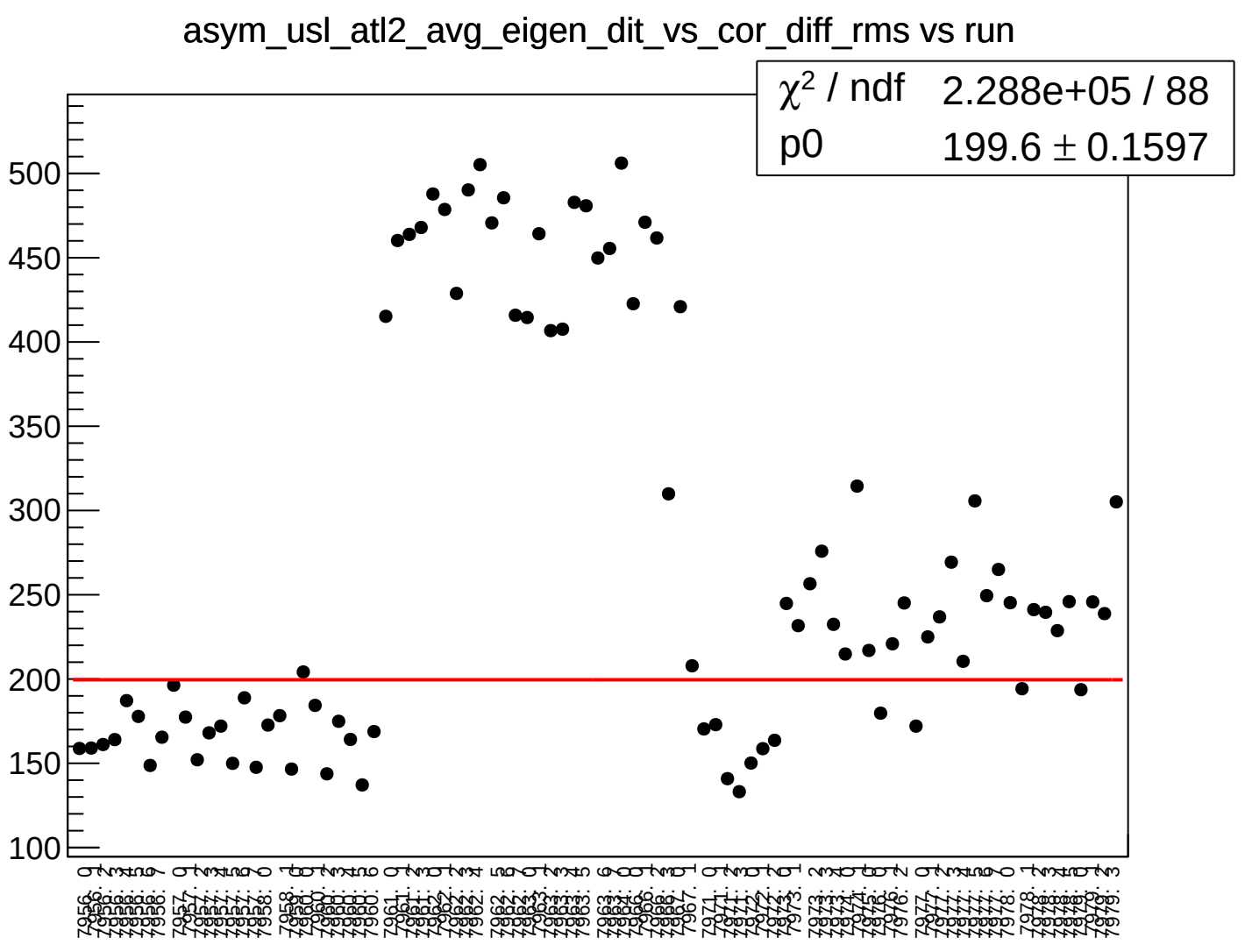

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.288e+05 / 88
p0 199.6 ± 0.1597
500
450
400
350
300
250
200
150
100

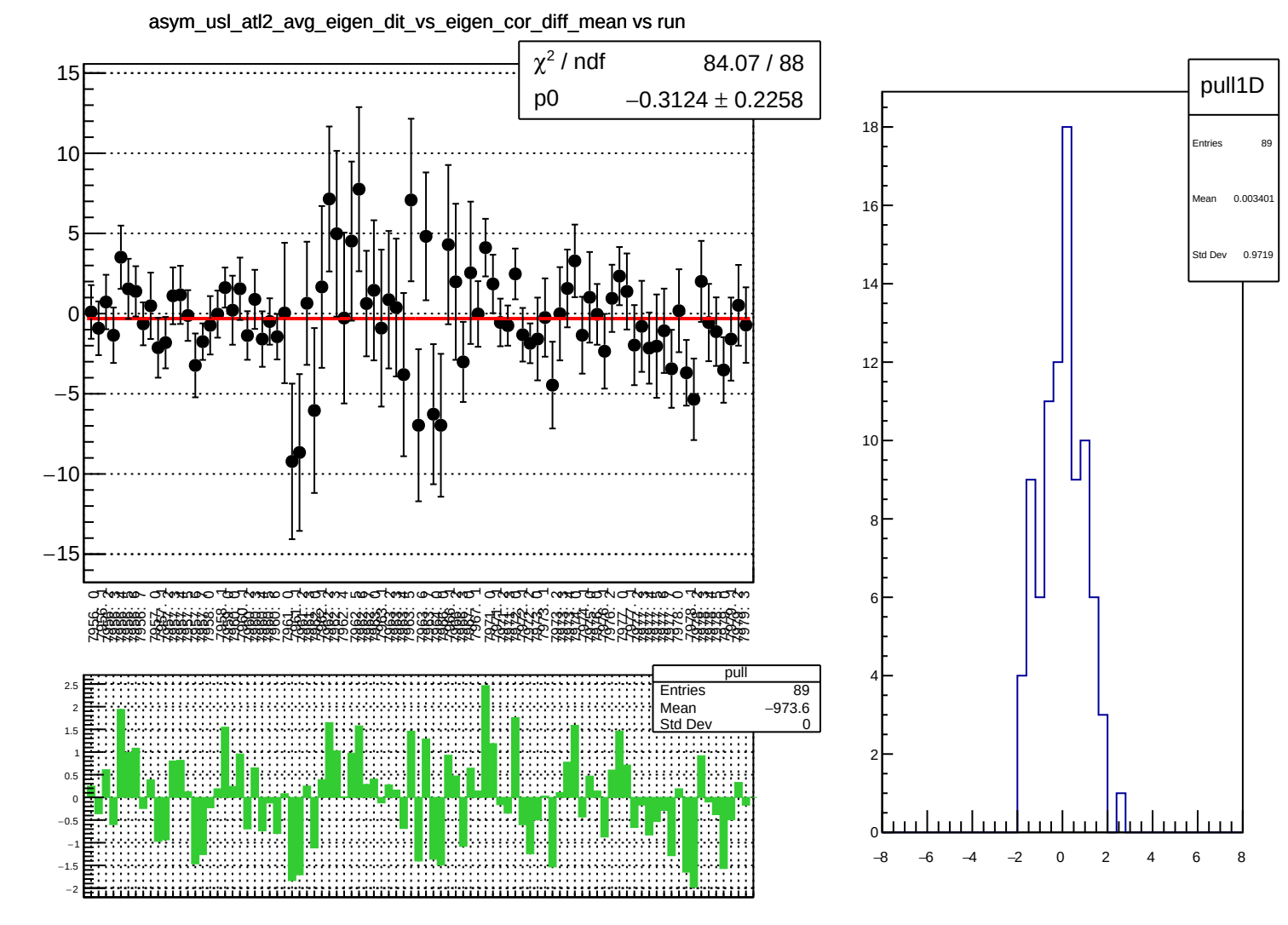

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.6 / 88
p0 −1.299e−05 ± 9.238e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean −1.789
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.03153
Std Dev 0.8709
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

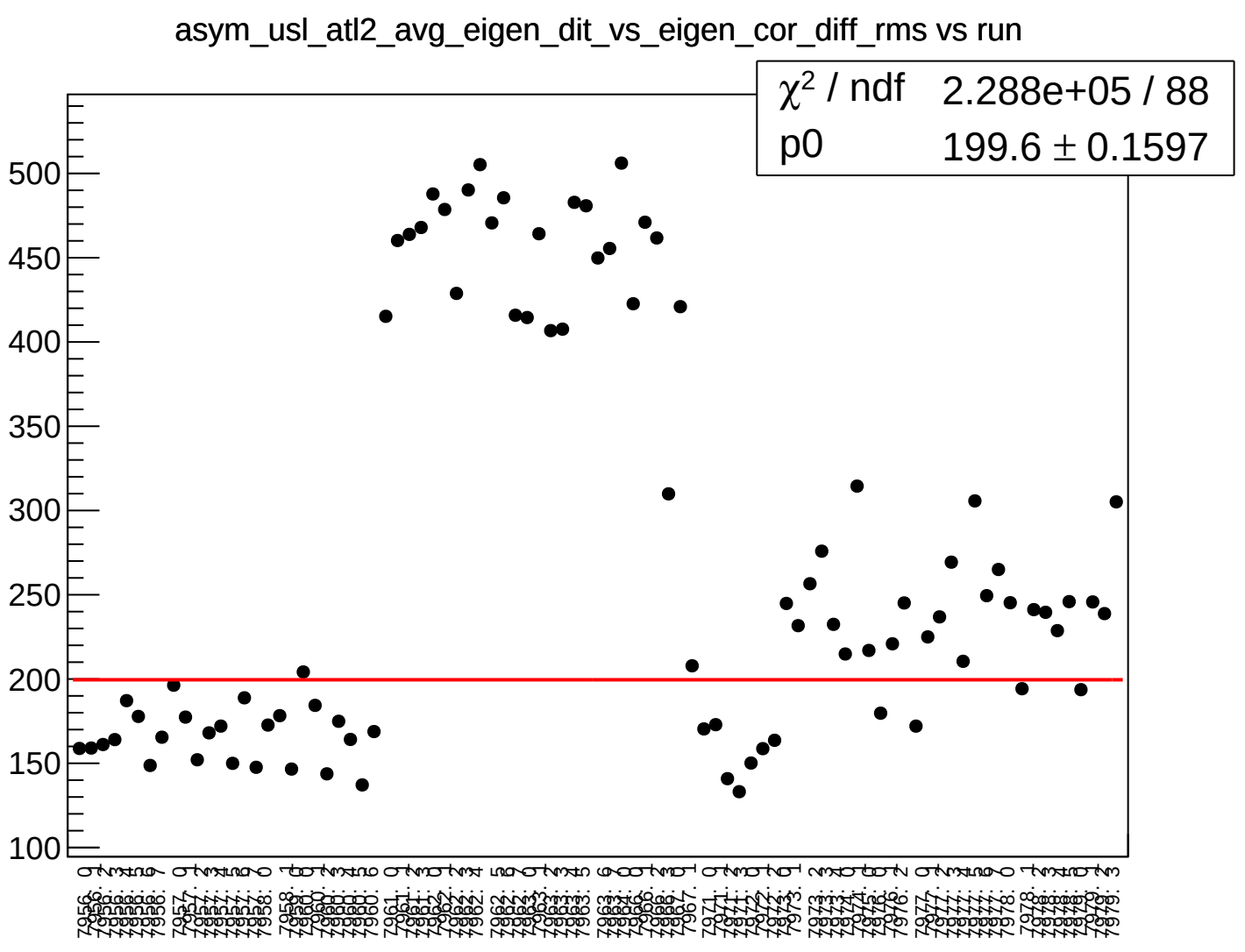

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.095e+05 / 88
p0 0.008214 ± 6.532e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

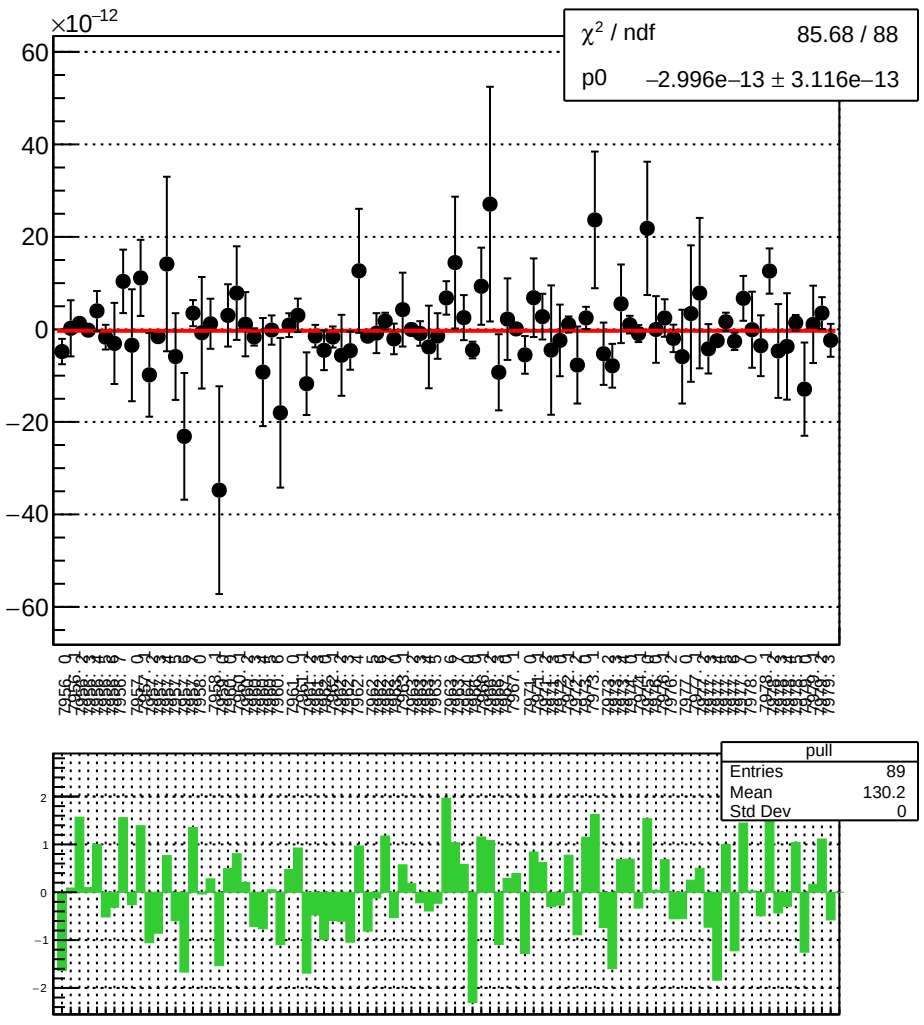

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.07 / 88
p0 −0.3124 ± 0.2258
pull
Entries 89
Mean −973.6
Std Dev 0

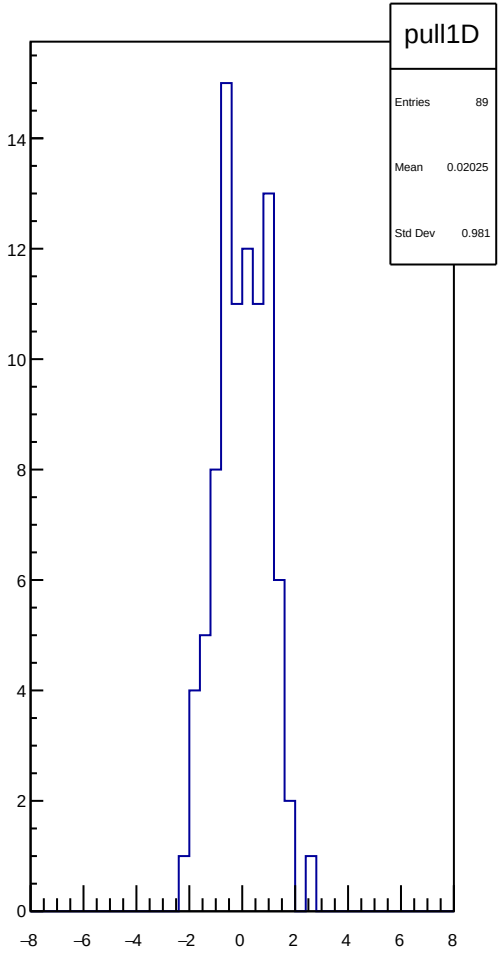

pull1D
Entries 89
Mean 0.003401
Std Dev 0.9719

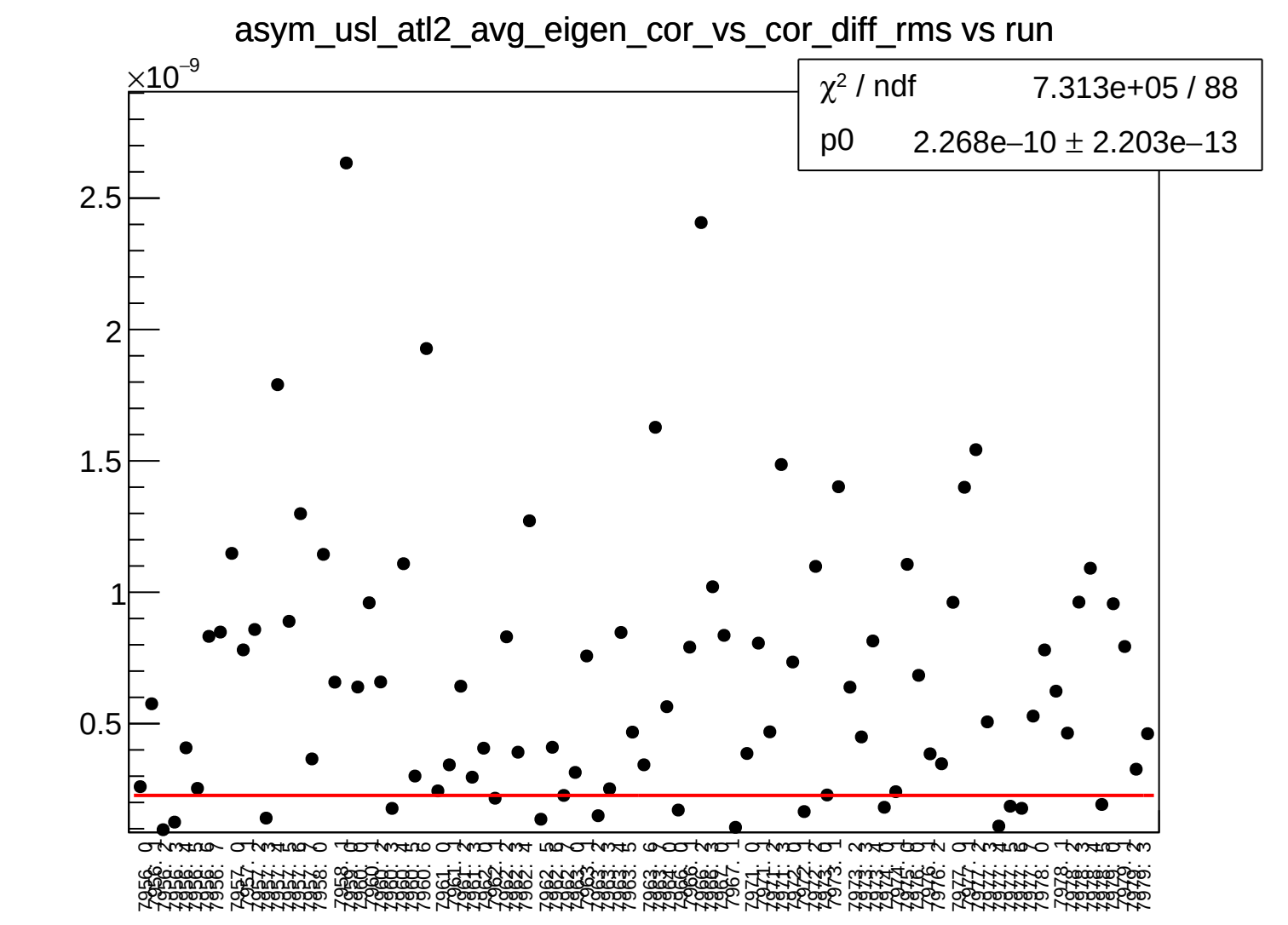

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.288e+05 / 88
p0 199.6 ± 0.1597
500
450
400
350
300
250
200
150
100

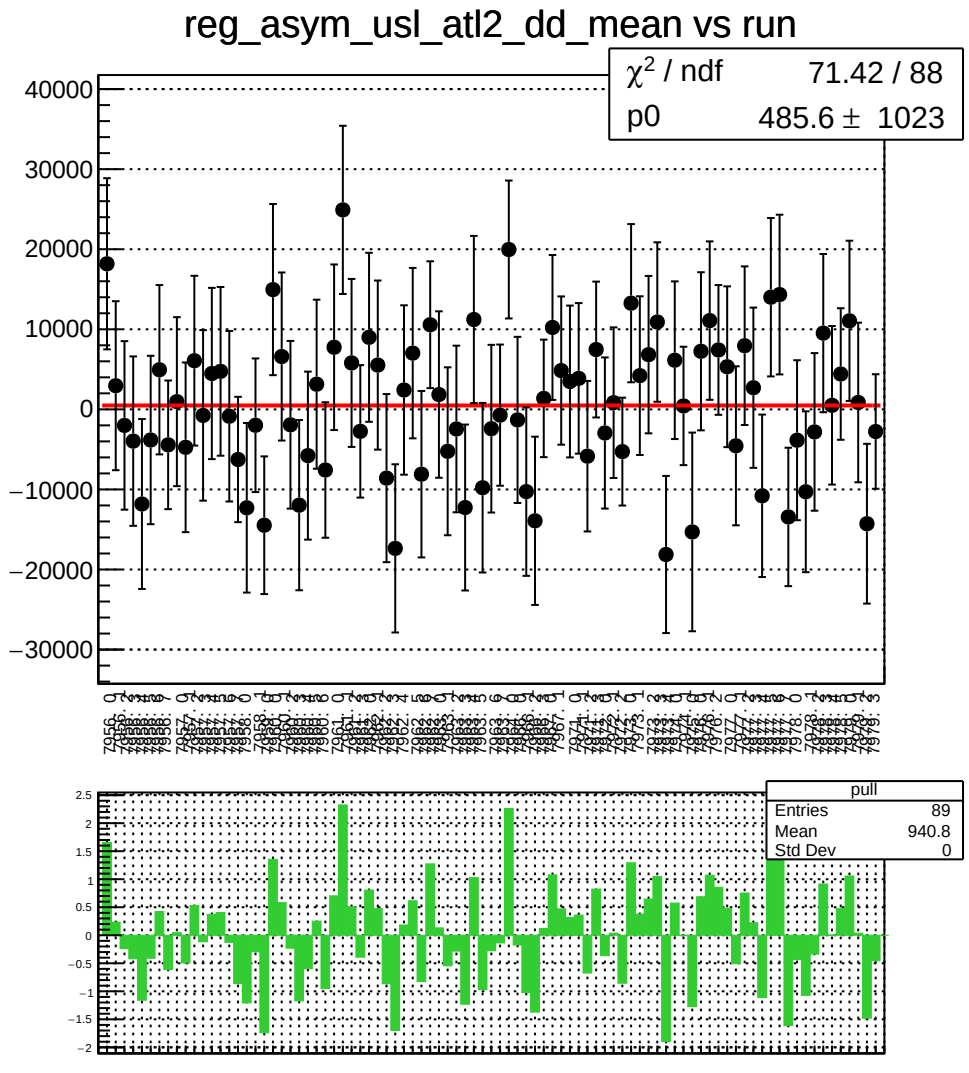

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.07 / 88
p0 −0.3124 ± 0.2258
pull
Entries 89
Mean −973.6
Std Dev 0
pull1D
Entries 89
Mean 0.003401
Std Dev 0.9719

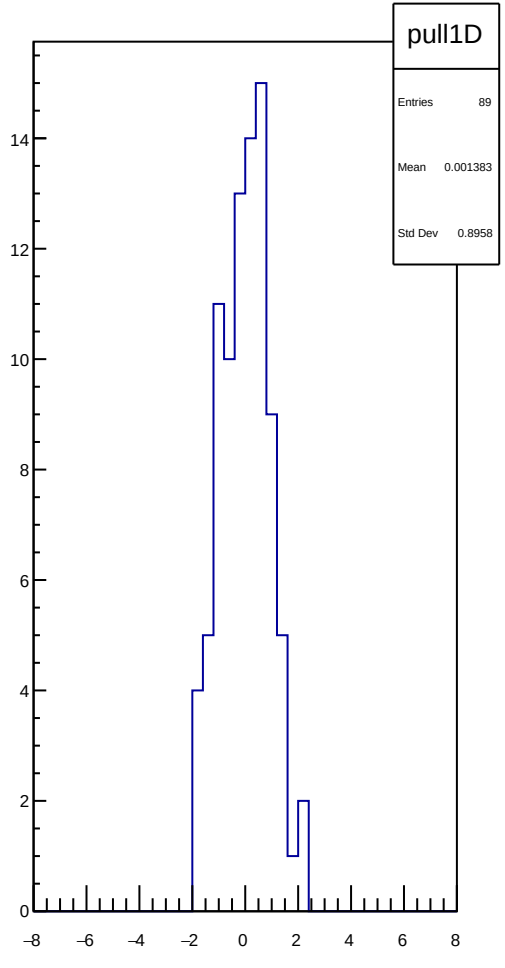

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.288e+05 / 88
p0 199.6 ± 0.1597
500
450
400
350
300
250
200
150
100

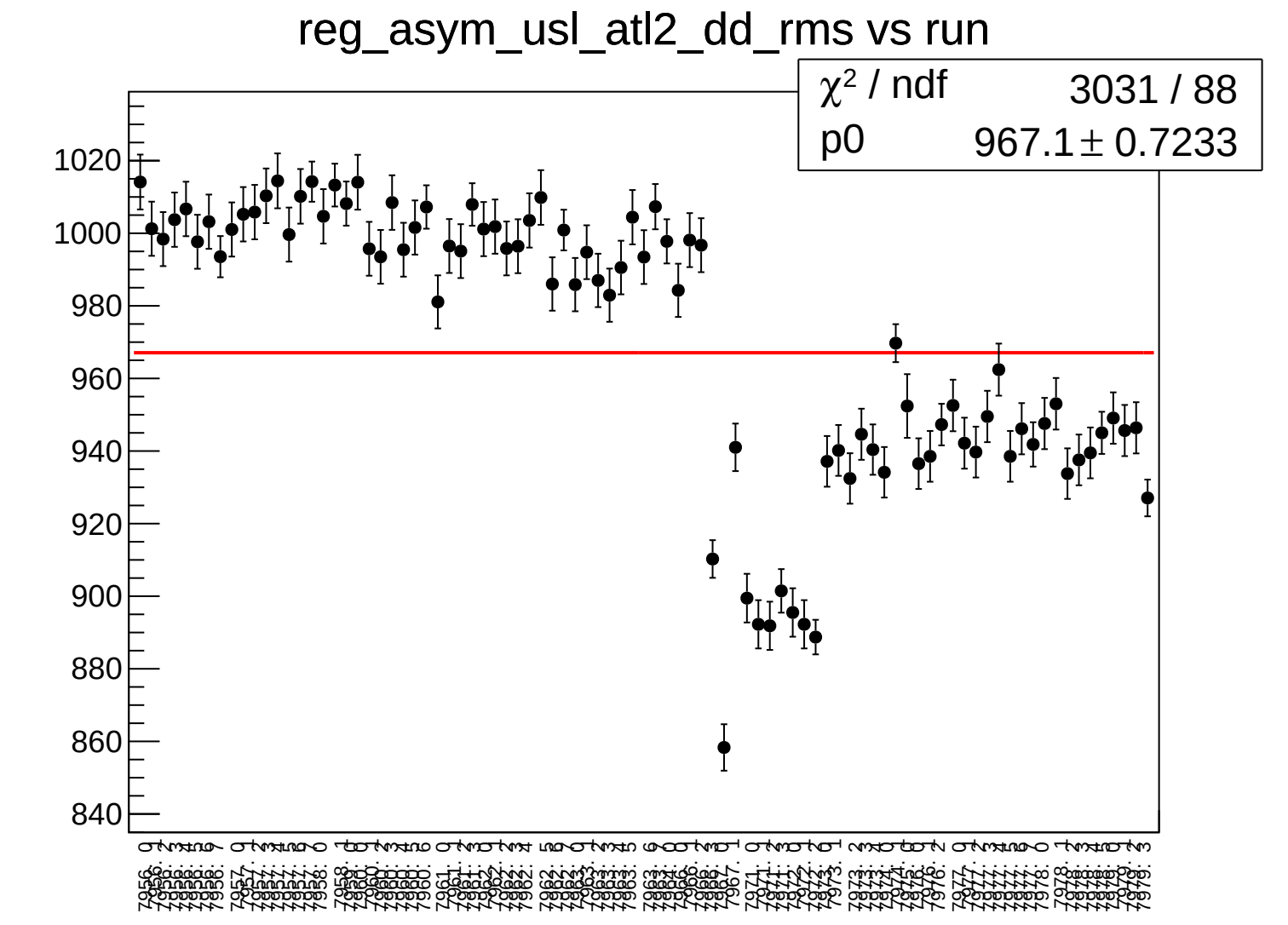

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.68 / 88
p0 −2.996e−13 ± 3.116e−13
pull
Entries 89
Mean 130.2
Std Dev 0

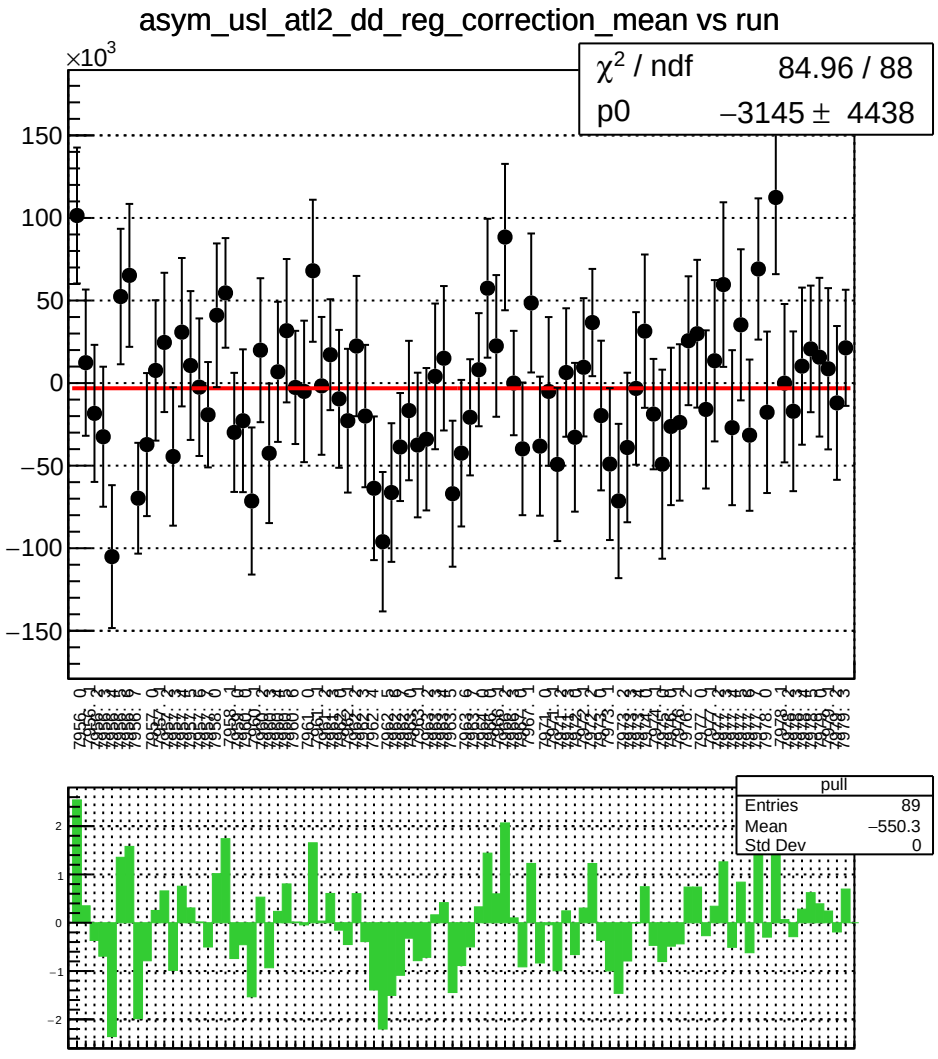

pull1D
Entries 89
Mean 0.02025
Std Dev 0.981

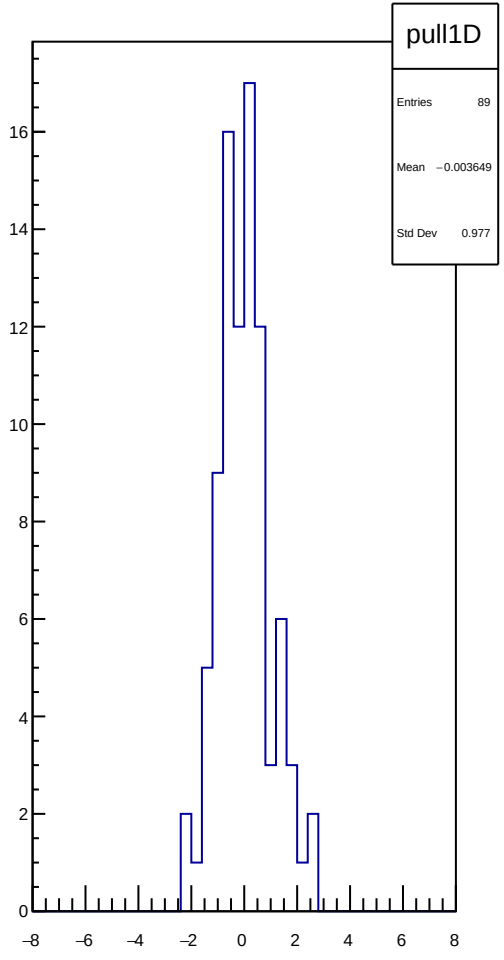

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.313e+05 / 88
p0 2.268e−10 ± 2.203e−13
2.5
2
1.5
1
0.5

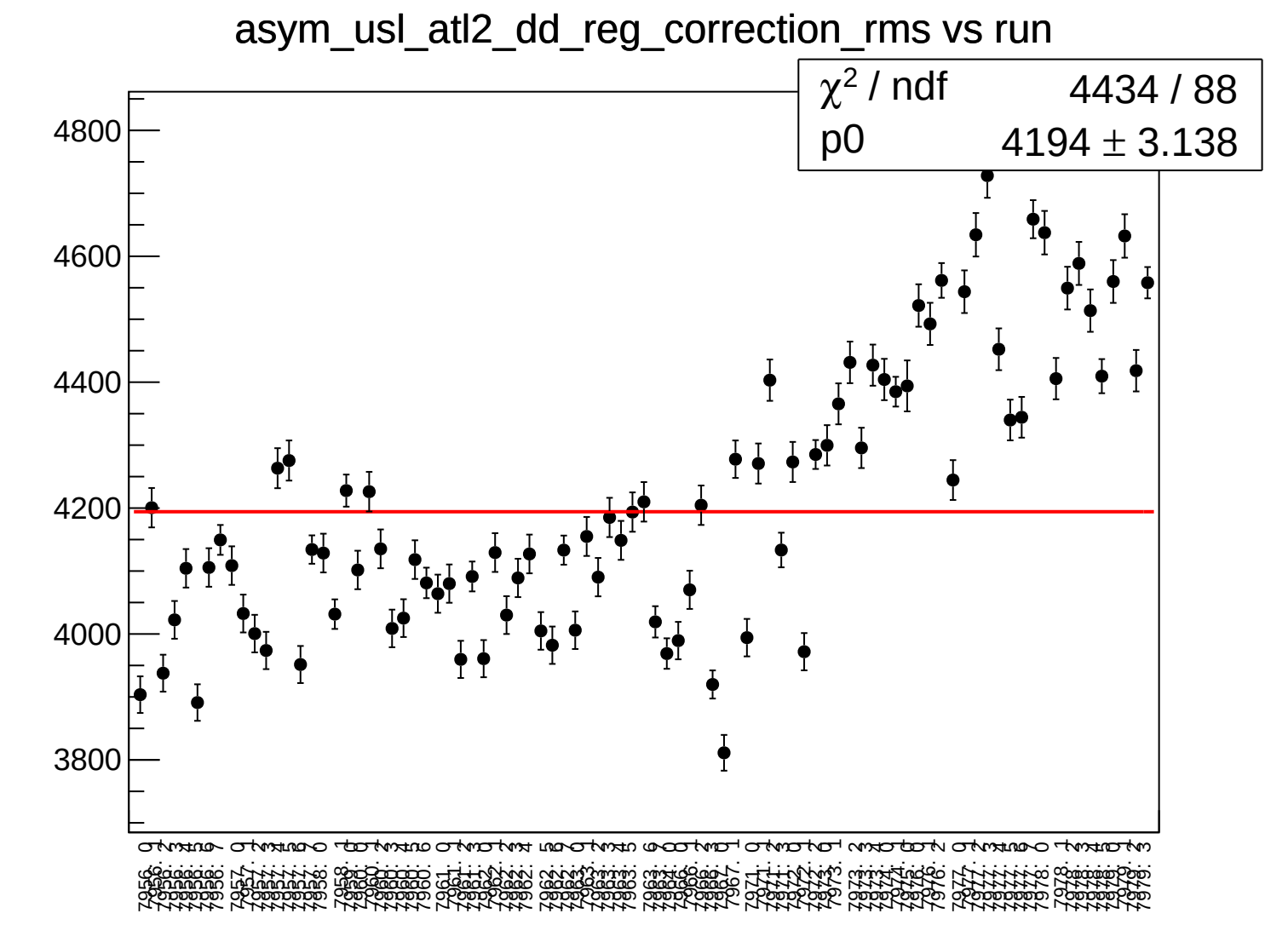

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.42 / 88
p0 485.6 ± 1023
pull
Entries 89
Mean 940.8
Std Dev 0

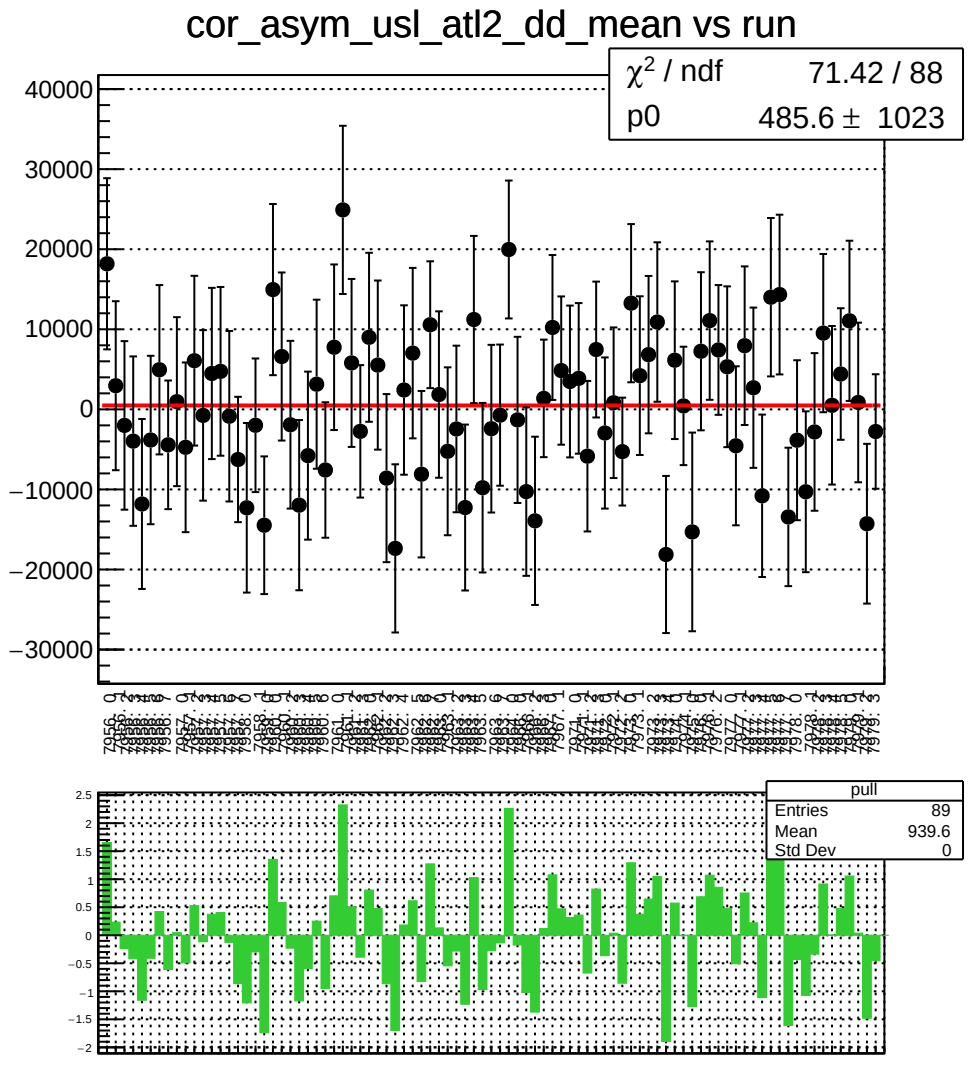

pull1D
Entries 89
Mean 0.001383
Std Dev 0.8958

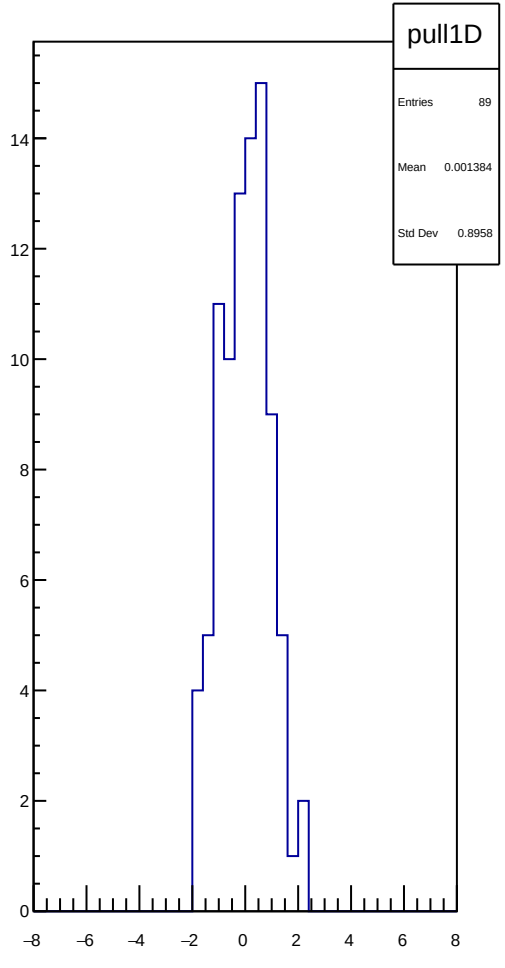

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 3031 / 88
p0 967.1 ± 0.7233
1020
1000
980
960
940
920
900
880
860
840

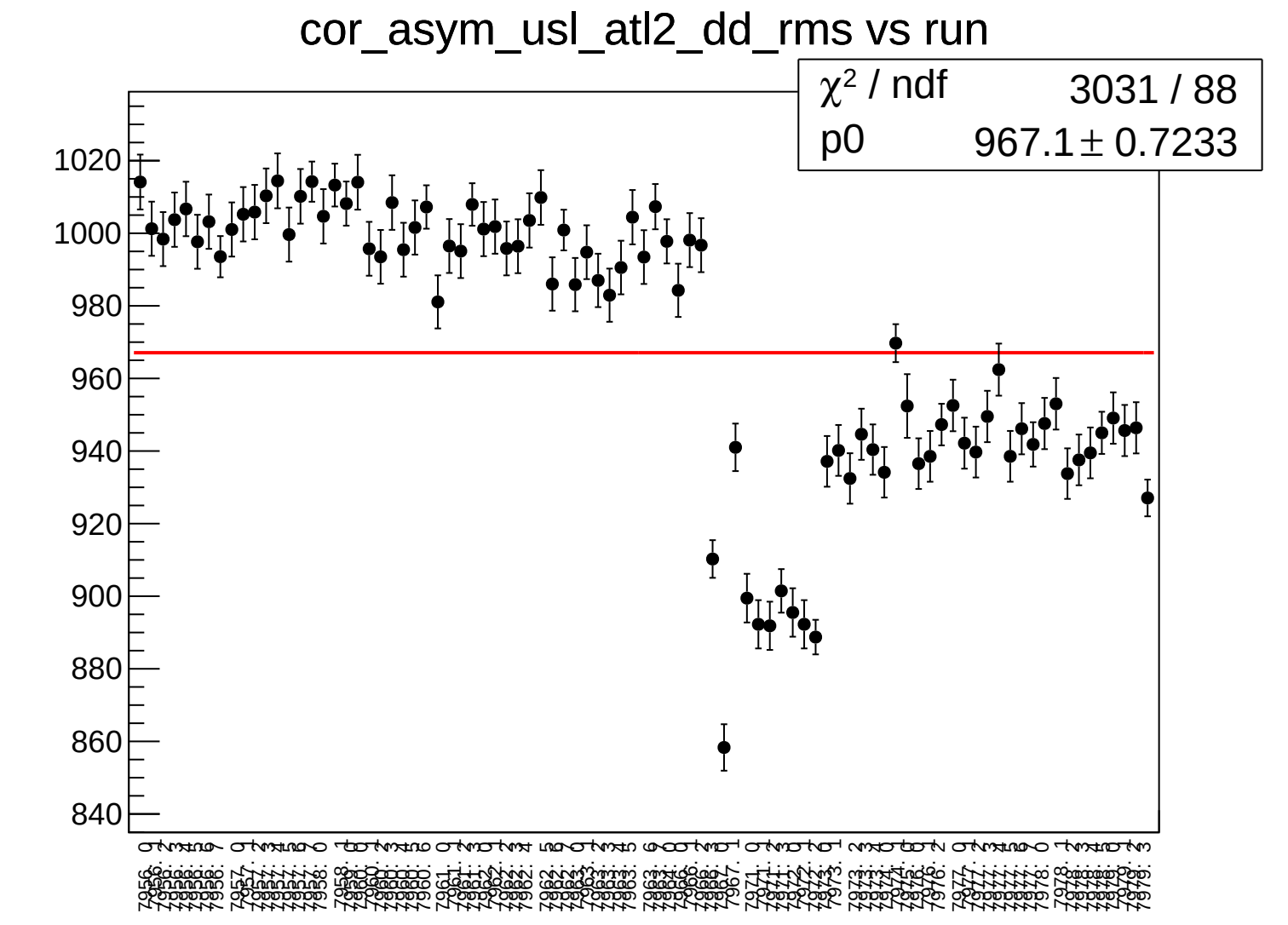

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.96 / 88
p0 −3145 ± 4438
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −550.3
Std Dev 0
2
1
0
−1
−2

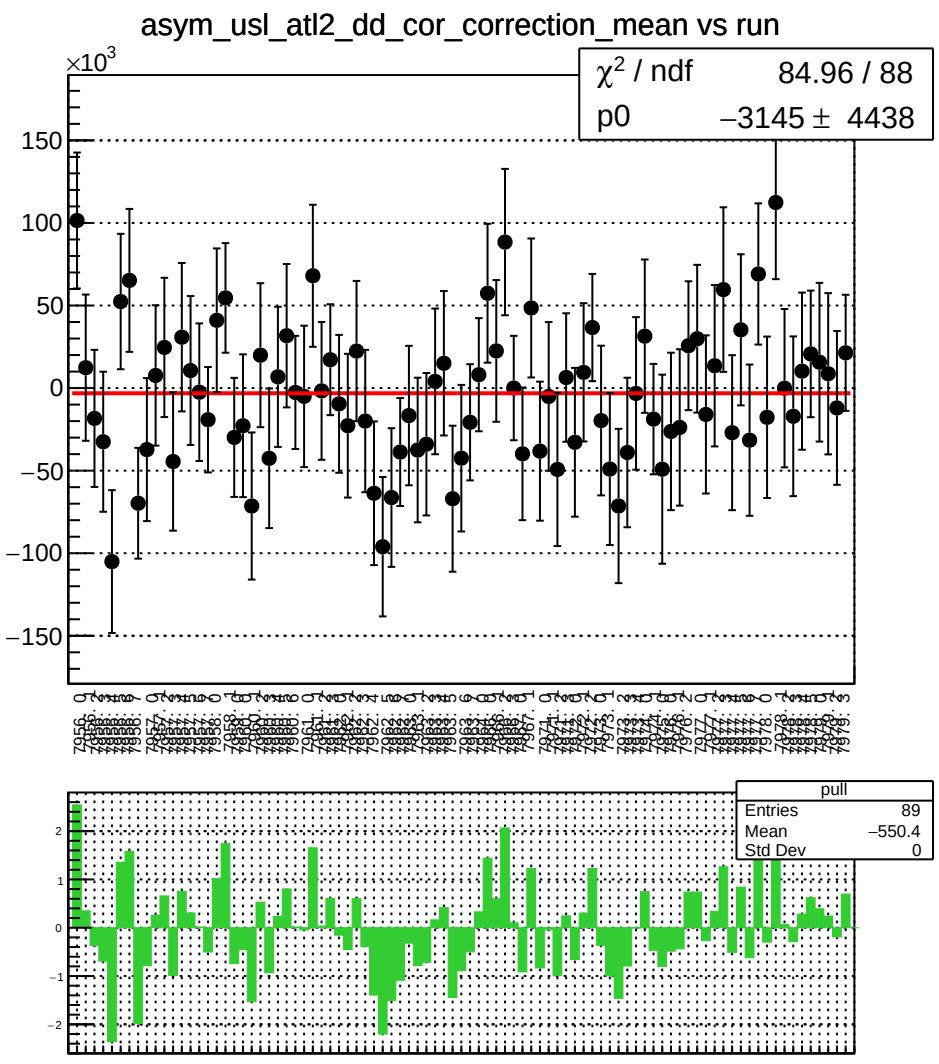

pull1D
Entries 89
Mean −0.003649
Std Dev 0.977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

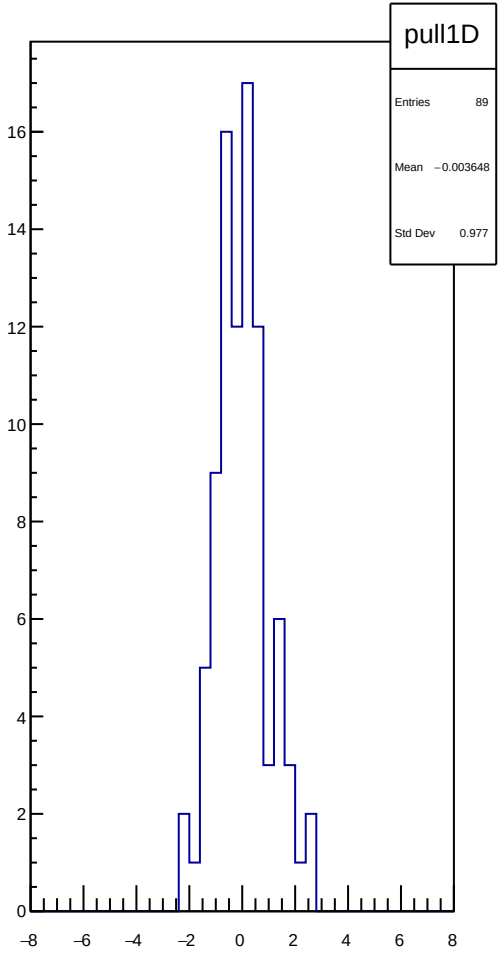

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 4434 / 88
p0 4194 ± 3.138
4800
4600
4400
4200
4000
3800

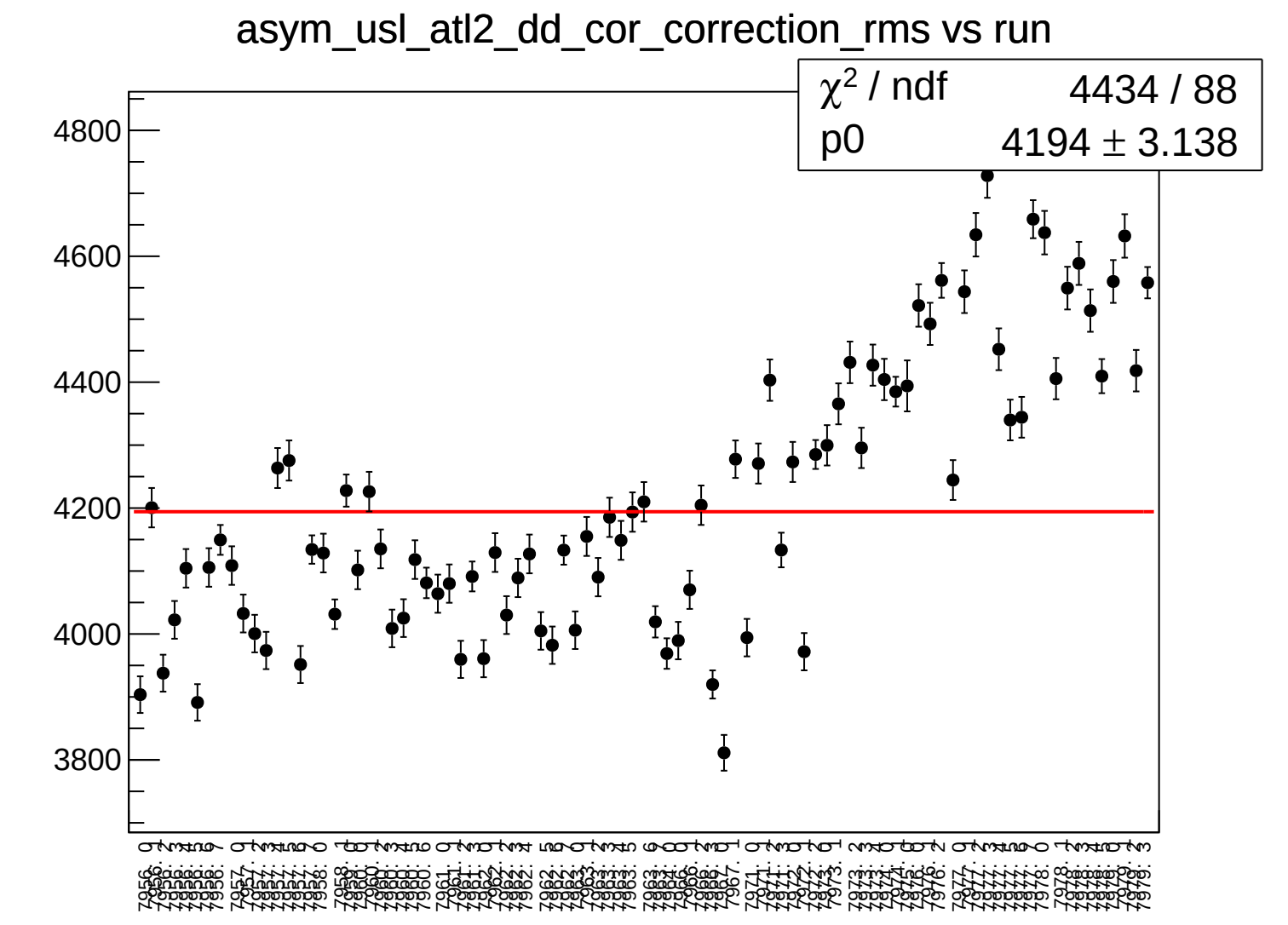

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.42 / 88
p0 485.6 ± 1023
pull
Entries 89
Mean 939.6
Std Dev 0

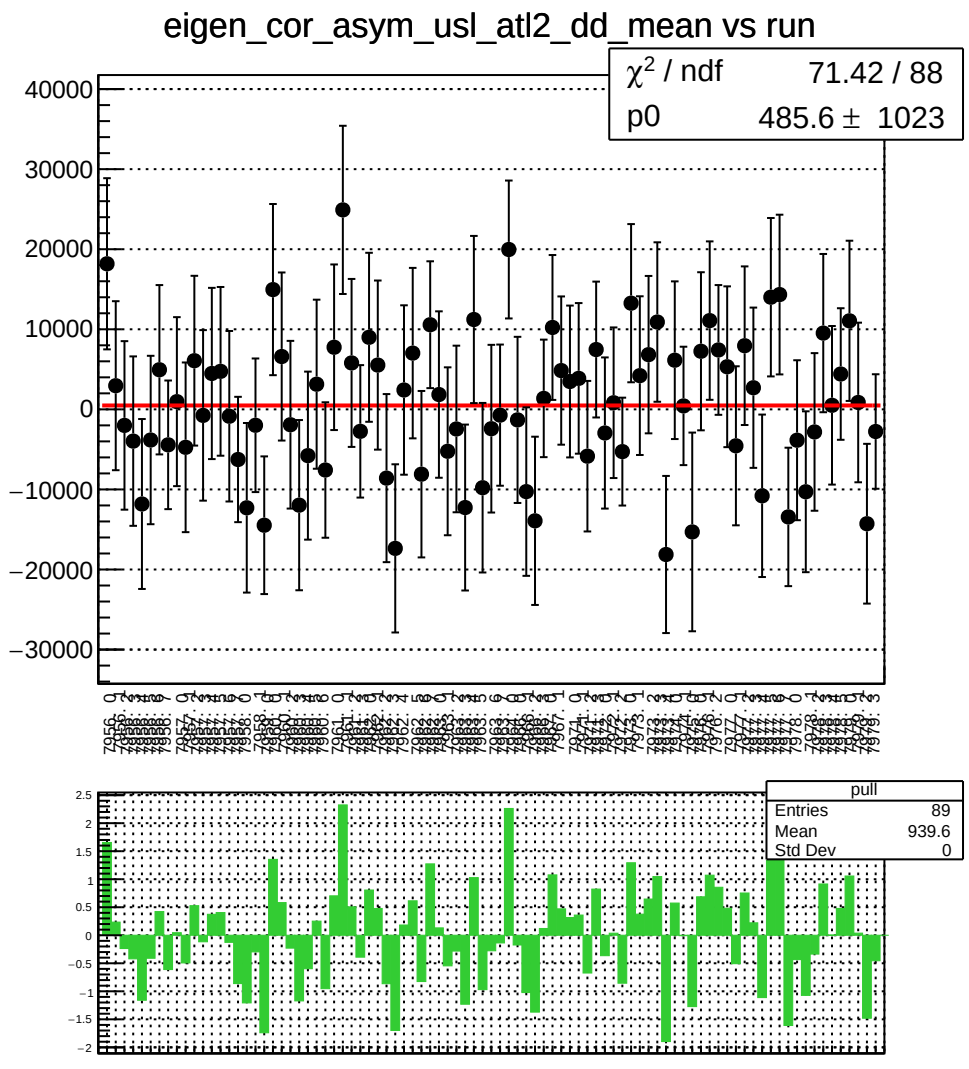

pull1D
Entries 89
Mean 0.001384
Std Dev 0.8958

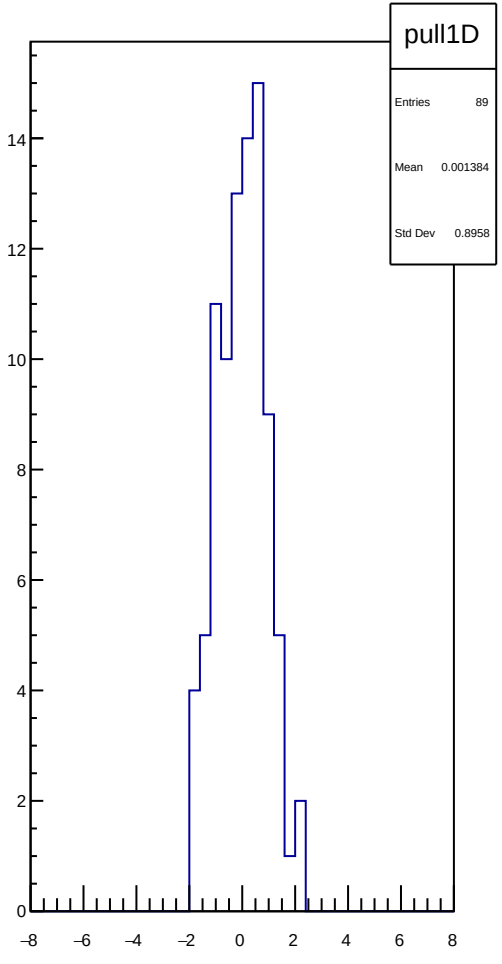

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 3031 / 88
p0 967.1 ± 0.7233
1020
1000
980
960
940
920
900
880
860
840

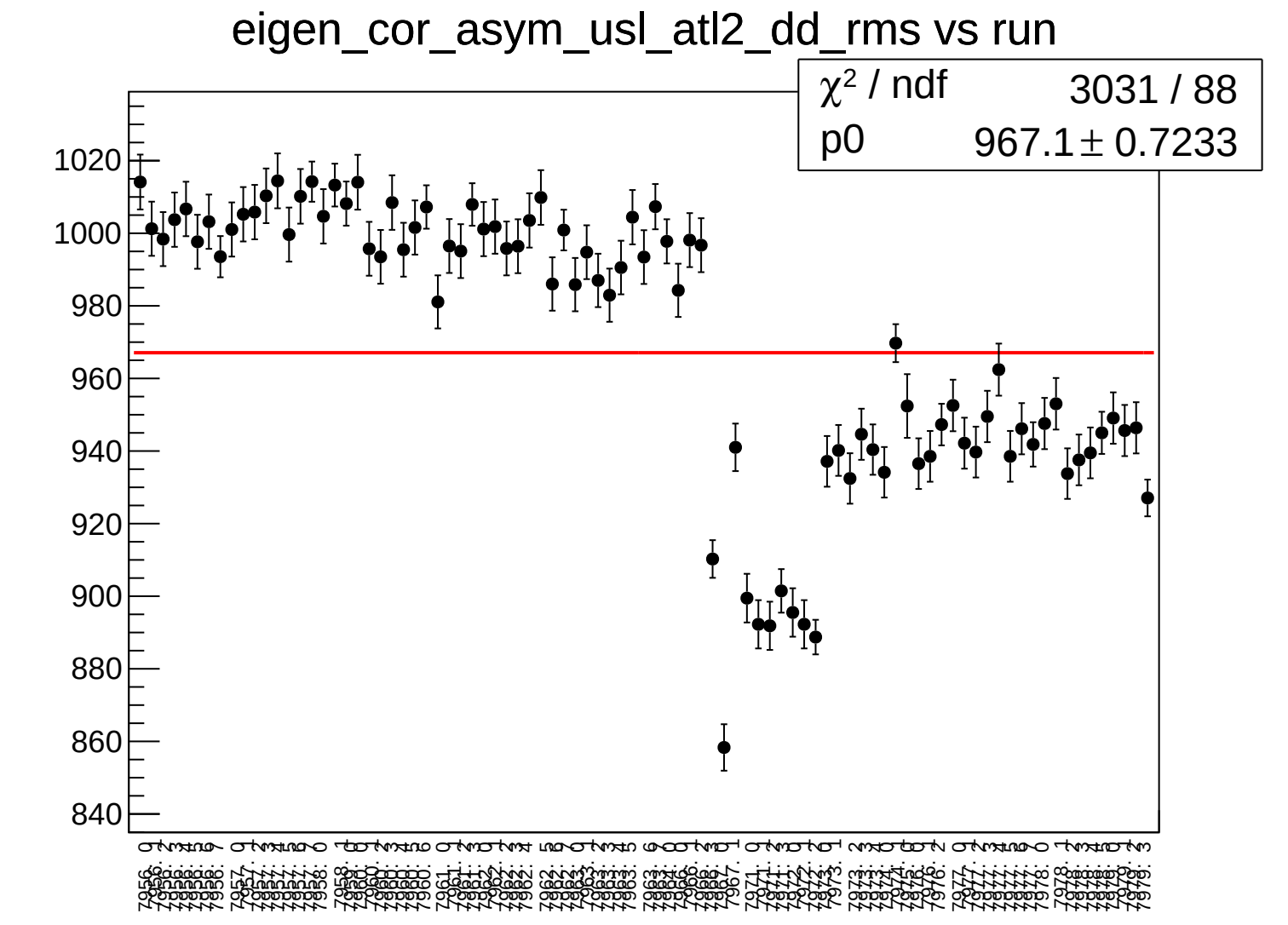

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.96 / 88
p0 −3145 ± 4438
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −550.4
Std Dev 0
2
1
0
−1
−2

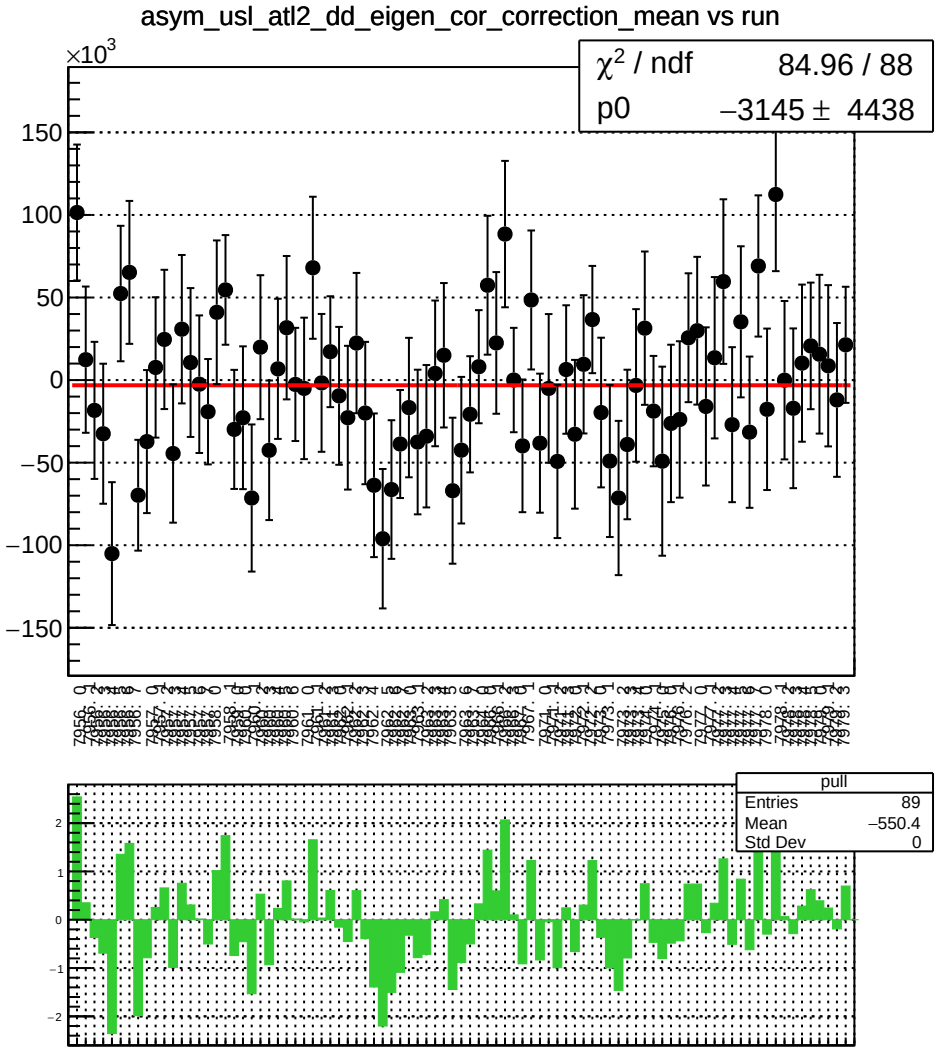

pull1D
Entries 89
Mean −0.003648
Std Dev 0.977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

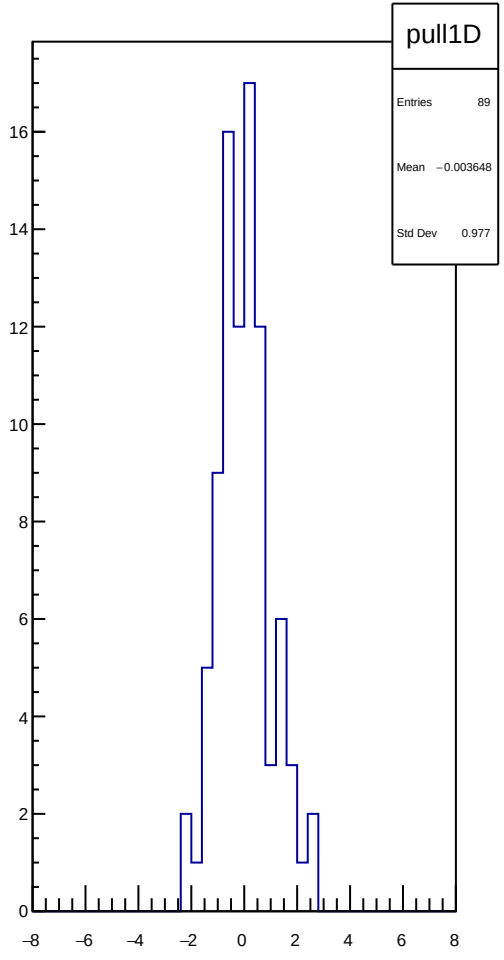

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 4434 / 88
p0 4194 ± 3.138
4800
4600
4400
4200
4000
3800

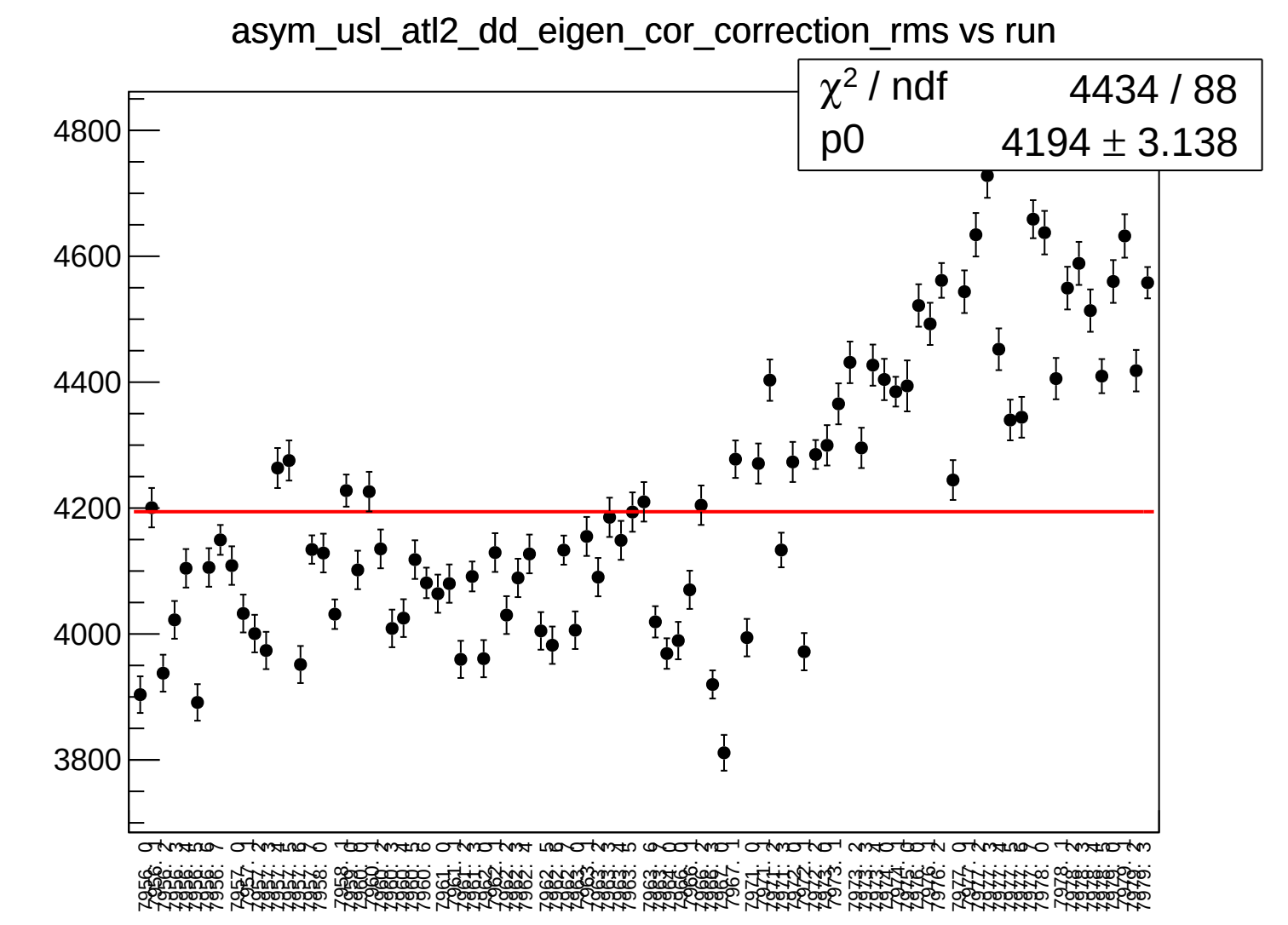

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 71.42 / 88
p0 485.6 ± 1023
pull
Entries 89
Mean 939.6
Std Dev 0

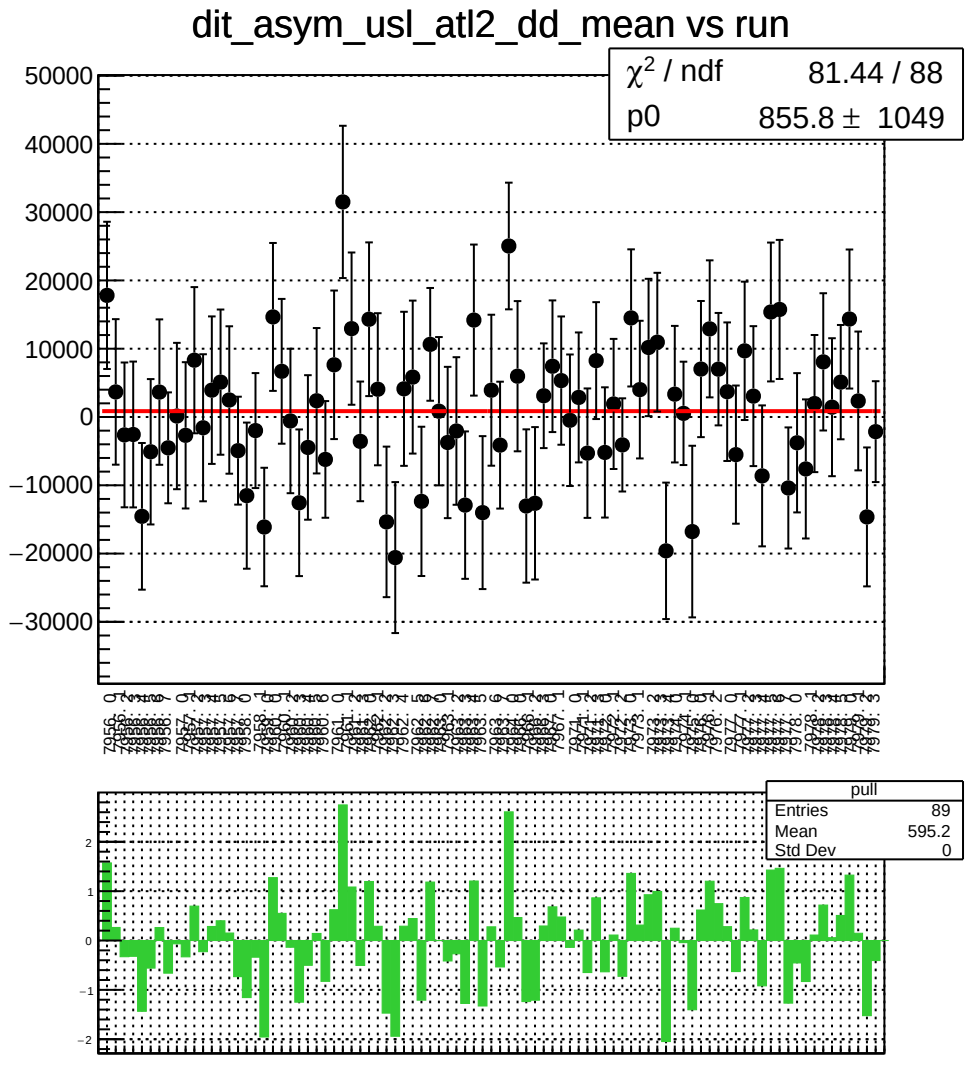

pull1D
Entries 89
Mean 0.001384
Std Dev 0.8958

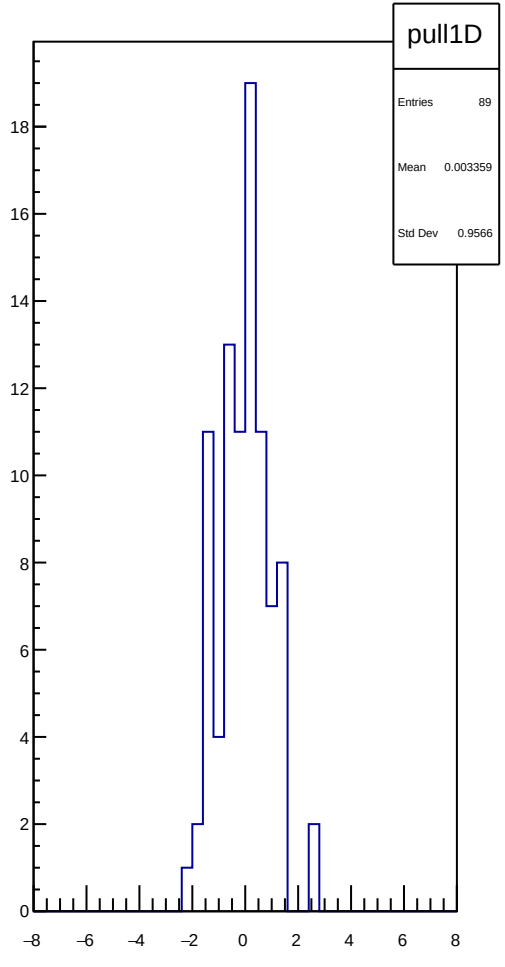

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 3031 / 88
p0 967.1 ± 0.7233
1020
1000
980
960
940
920
900
880
860
840

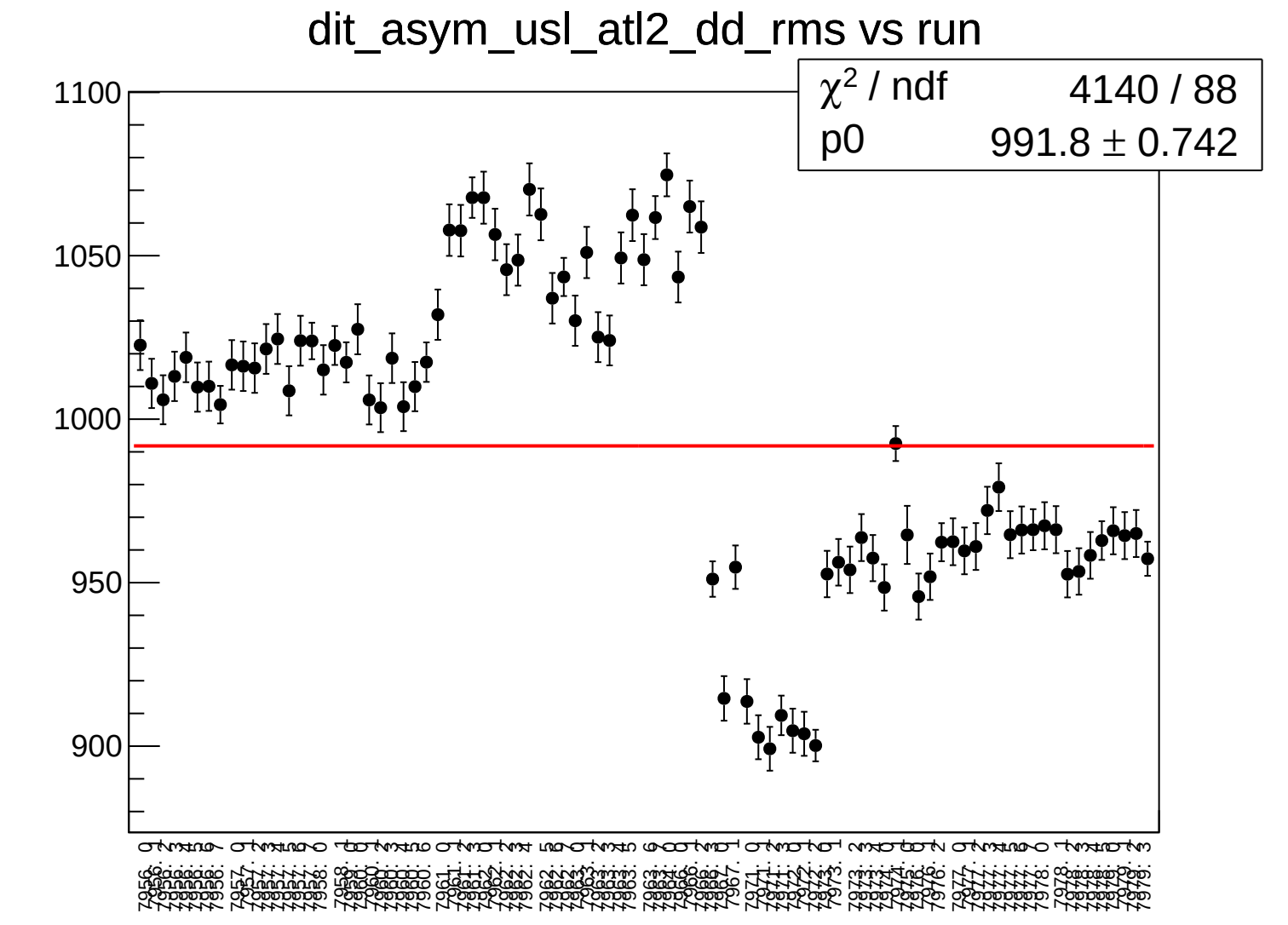

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 84.96 / 88
p0 −3145 ± 4438
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −550.4
Std Dev 0
2
1
0
−1
−2

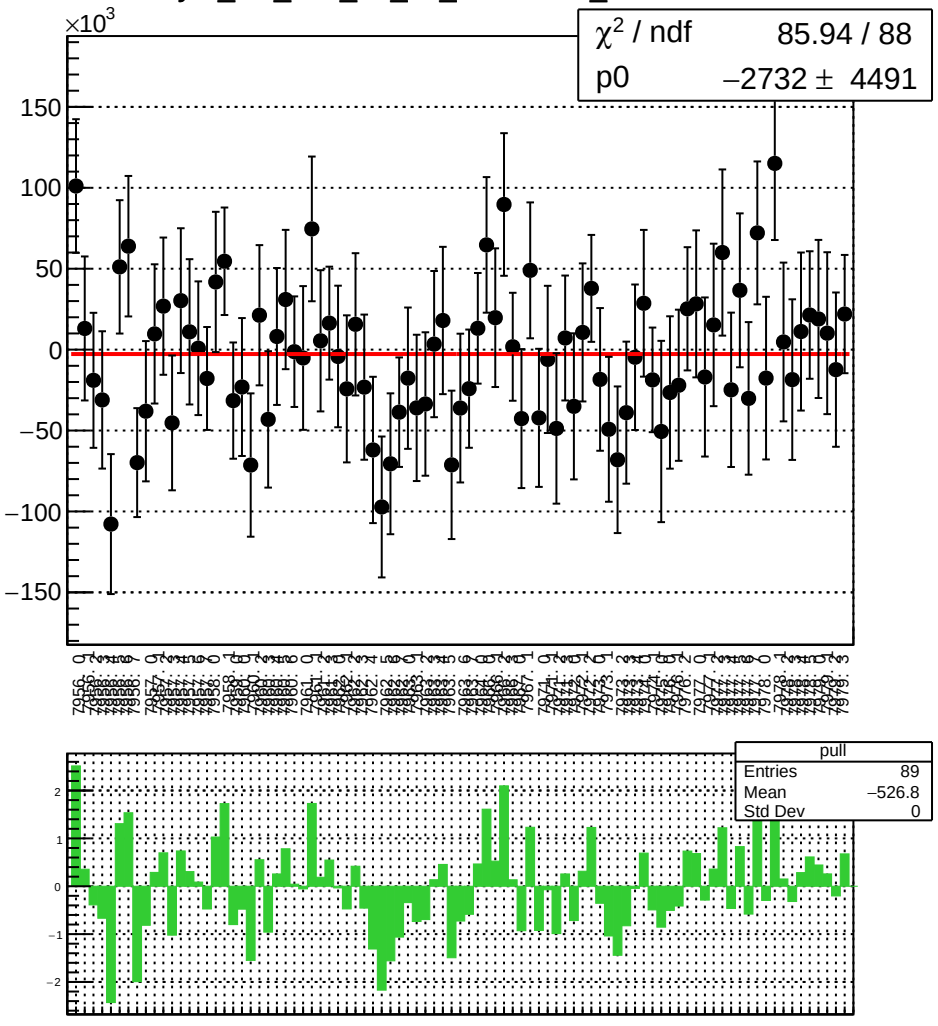

pull1D
Entries 89
Mean −0.003648
Std Dev 0.977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

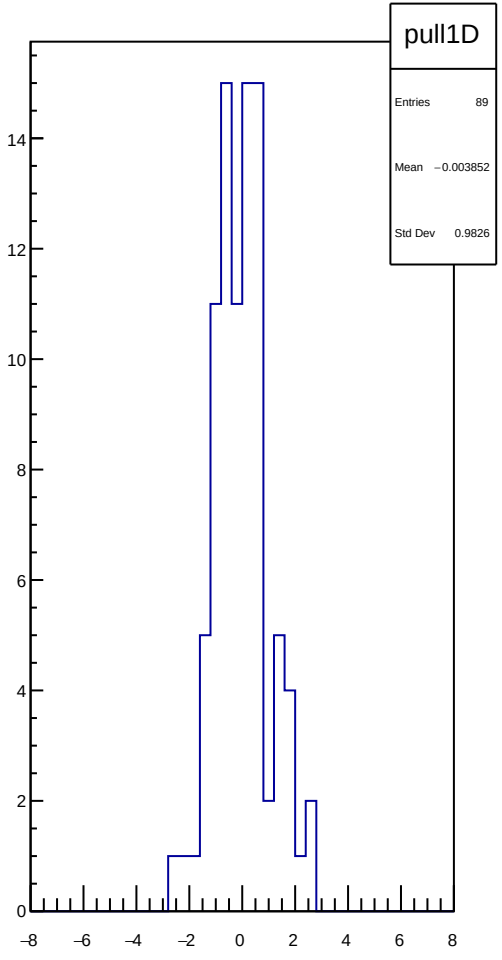

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4434 / 88
p0 4194 ± 3.138
4800
4600
4400
4200
4000
3800

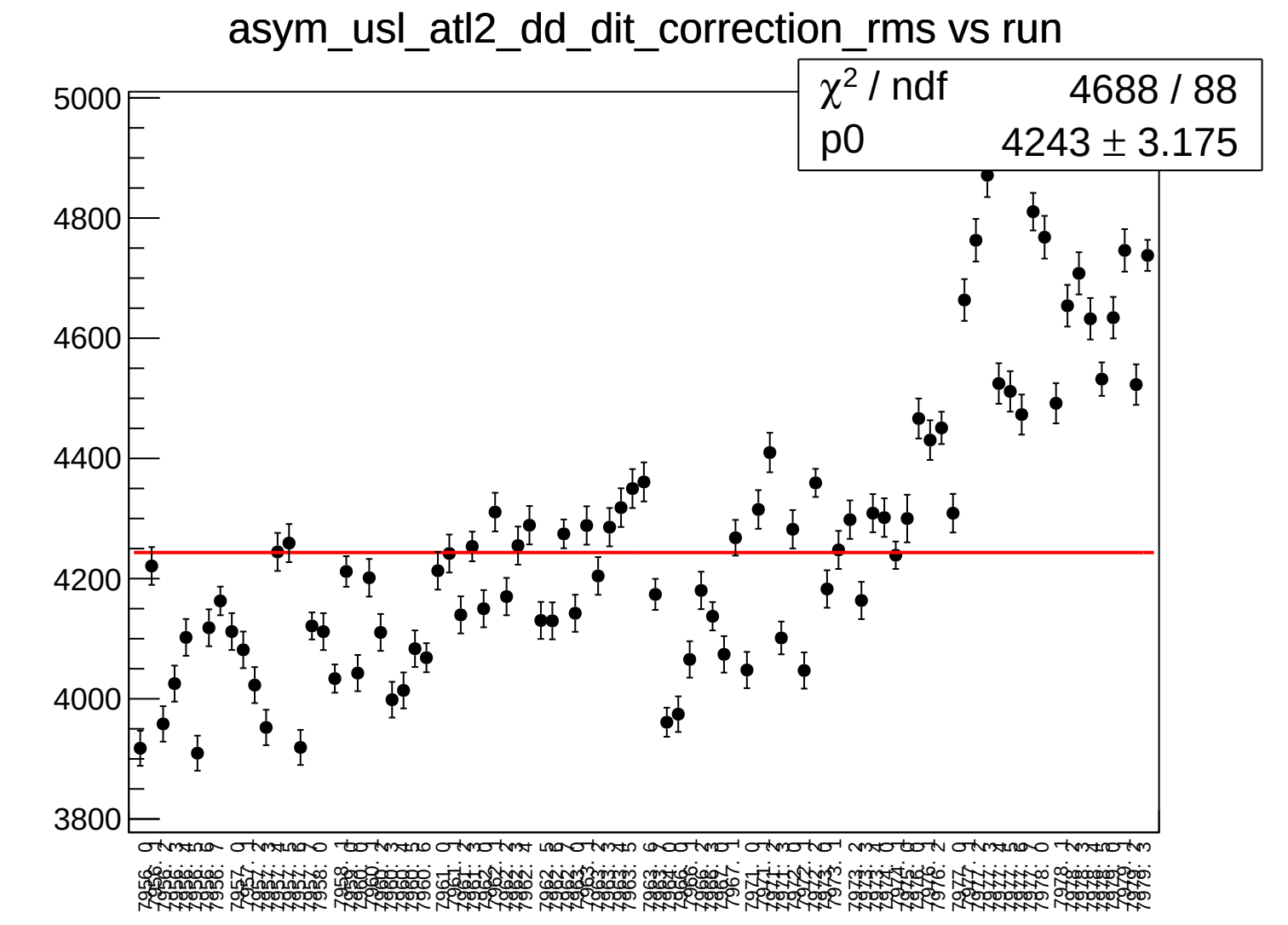

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 81.44 / 88
p0 855.8 ± 1049
pull
Entries 89
Mean 595.2
Std Dev 0

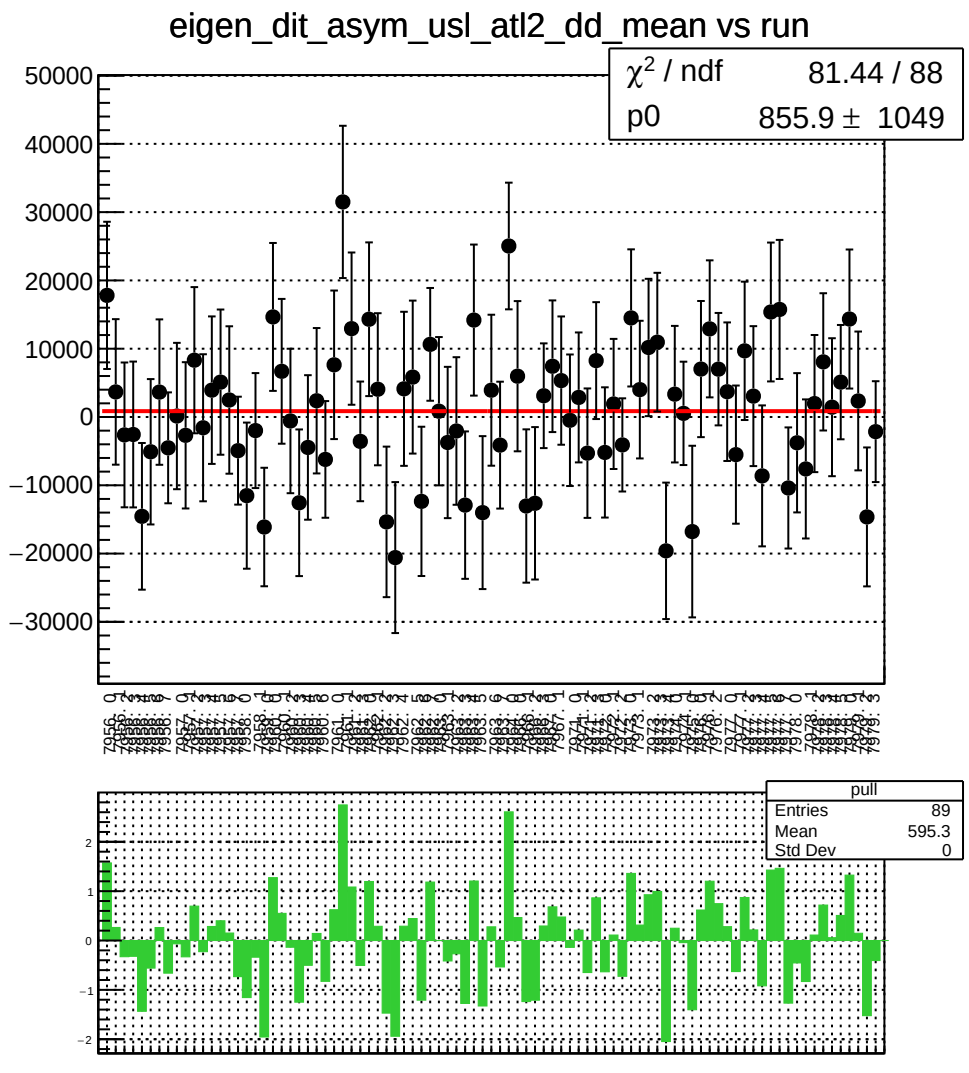

pull1D
Entries 89
Mean 0.003359
Std Dev 0.9566

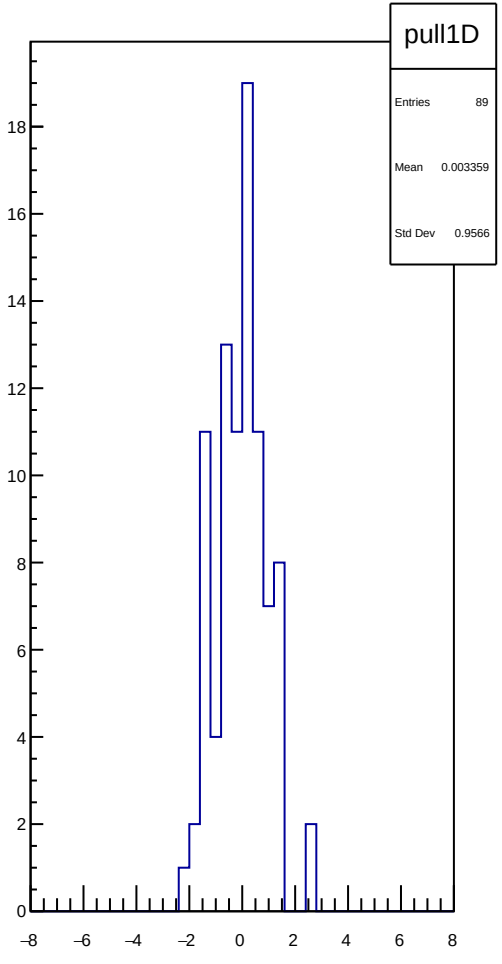

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 4140 / 88
p0 991.8 ± 0.742
1100
1050
1000
950
900

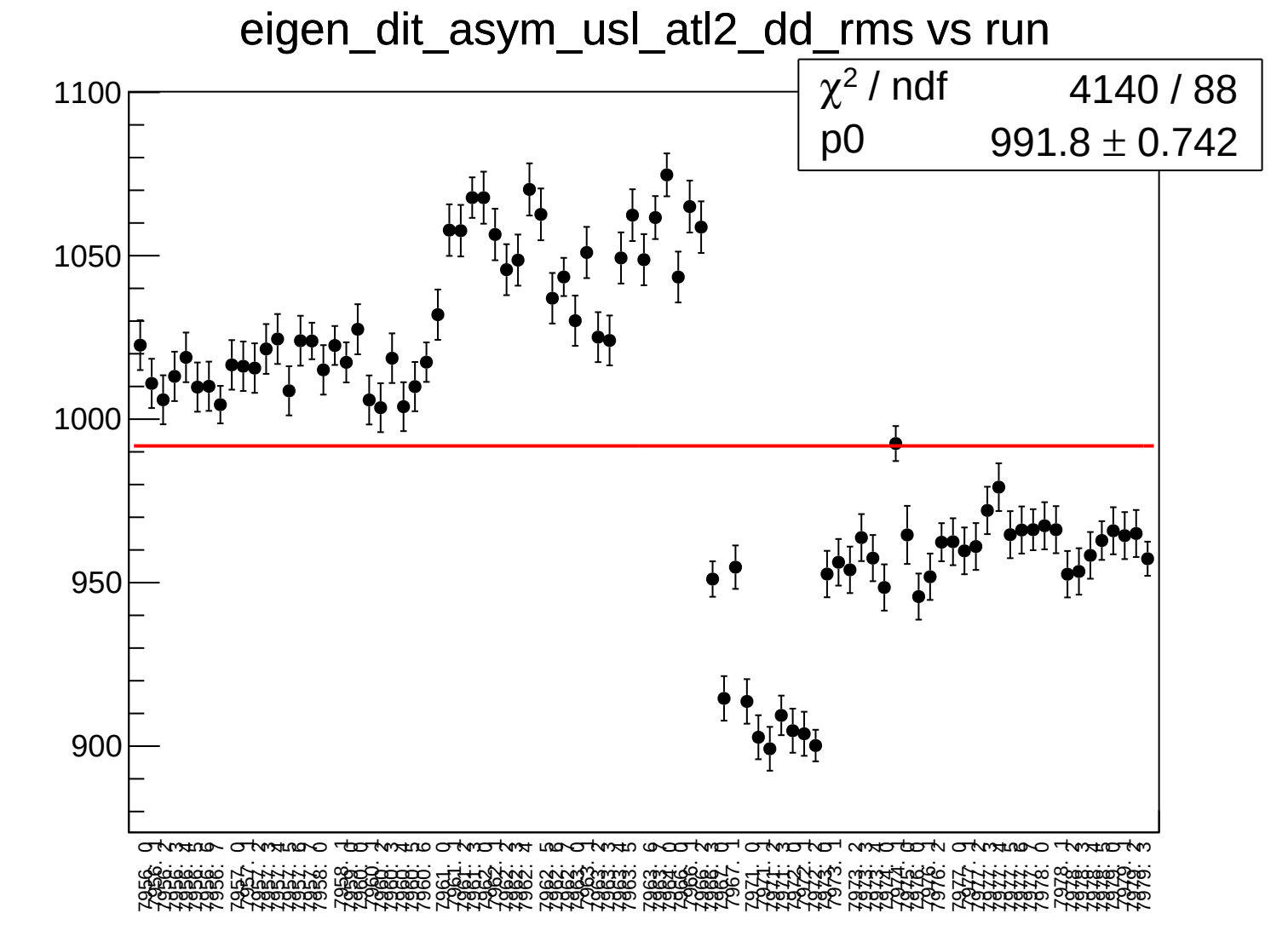

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.94 / 88
p0 −2732 ± 4491
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −526.8
Std Dev 0
2
1
0
−1
−2

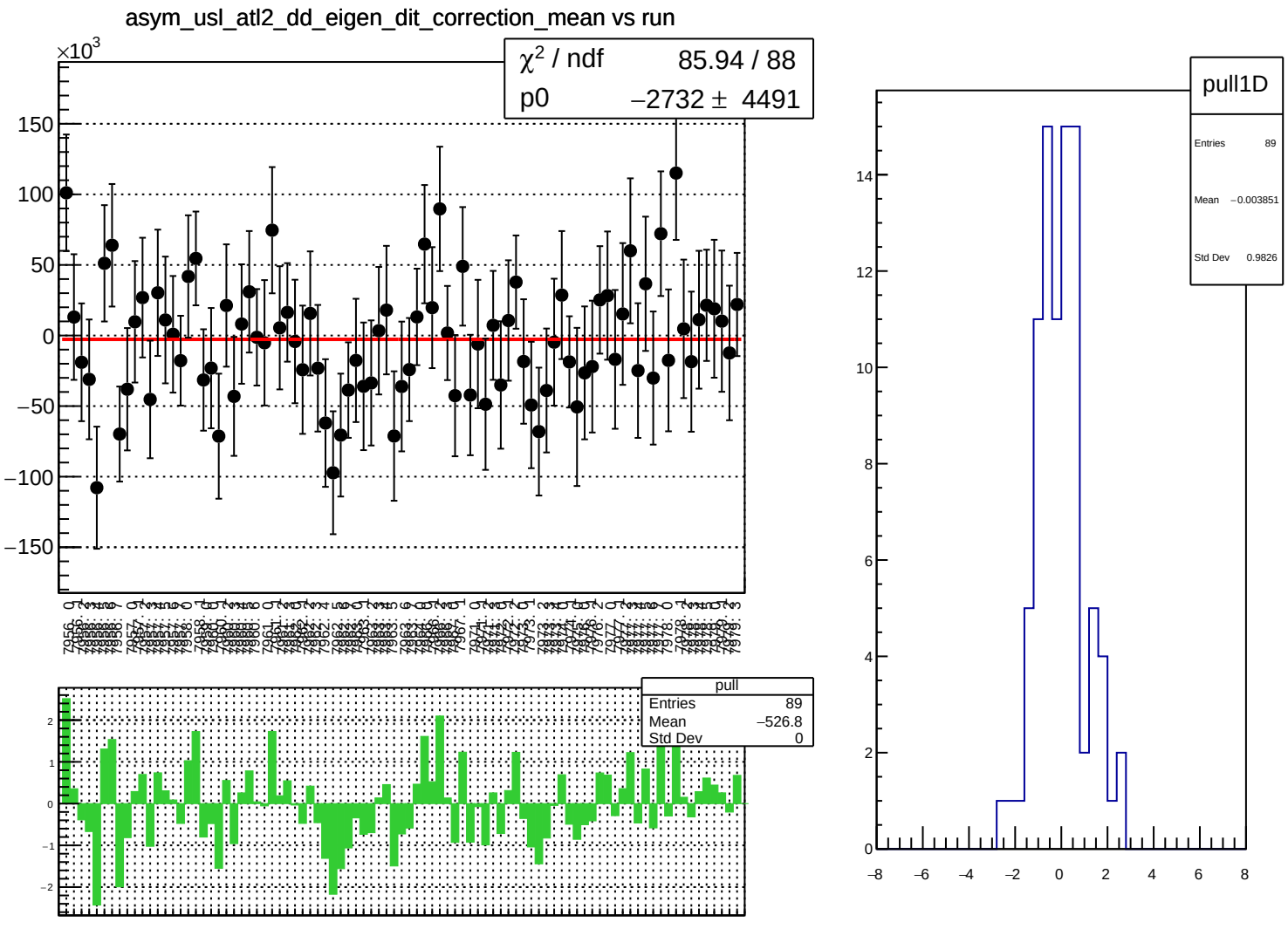

pull1D
Entries 89
Mean −0.003852
Std Dev 0.9826
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

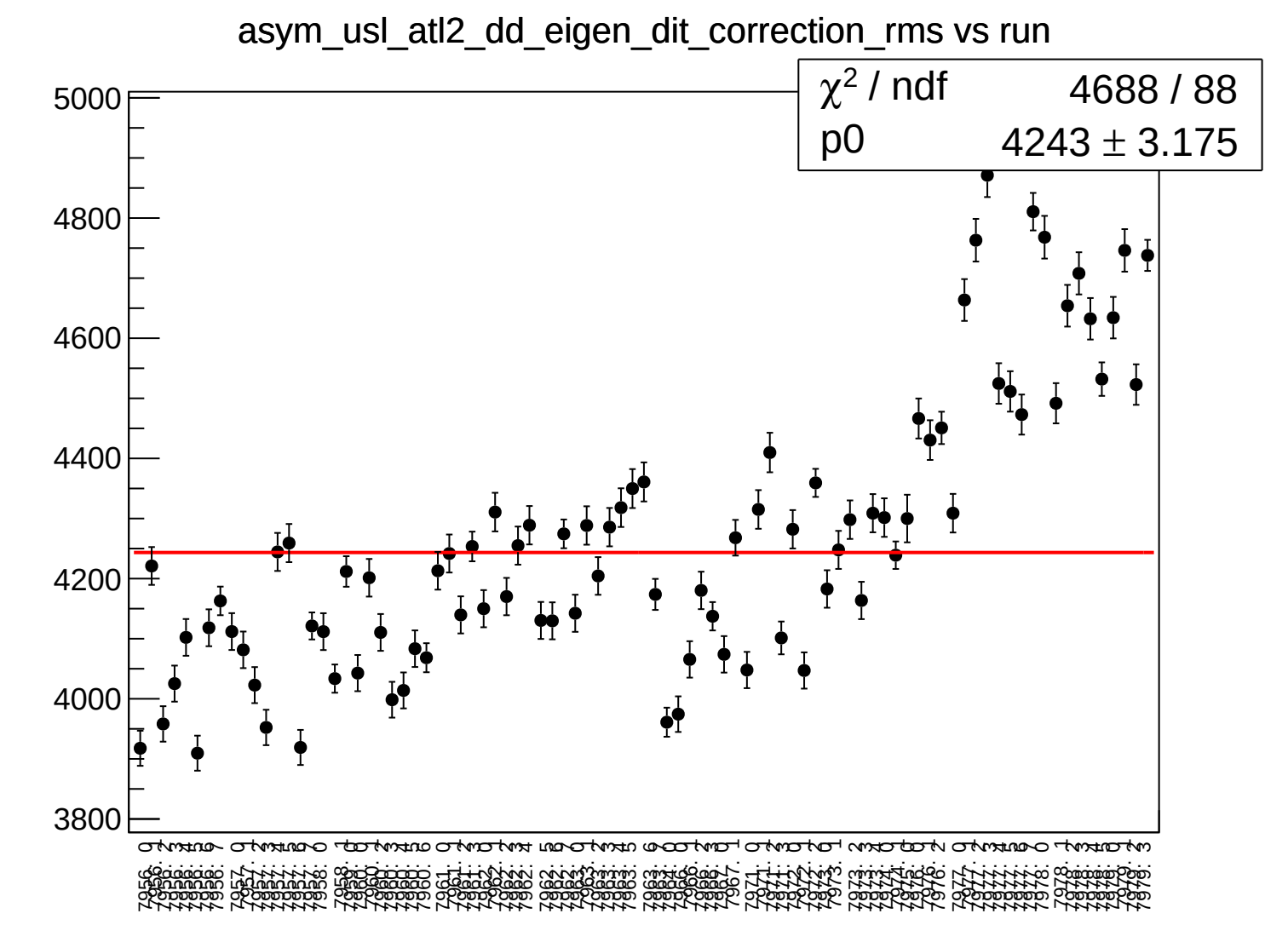

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 4688 / 88
p0 4243 ± 3.175
5000
4800
4600
4400
4200
4000
3800

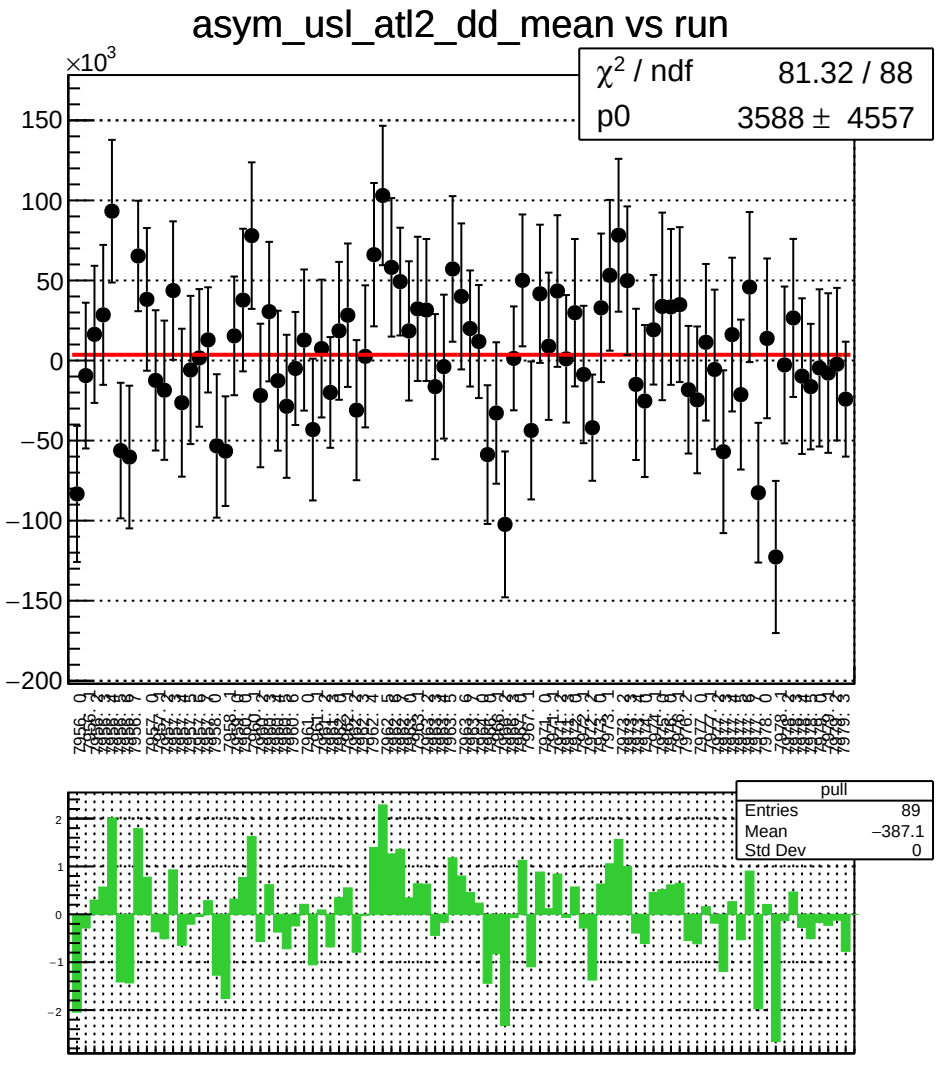

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 81.44 / 88
p0 855.9 ± 1049
pull
Entries 89
Mean 595.3
Std Dev 0

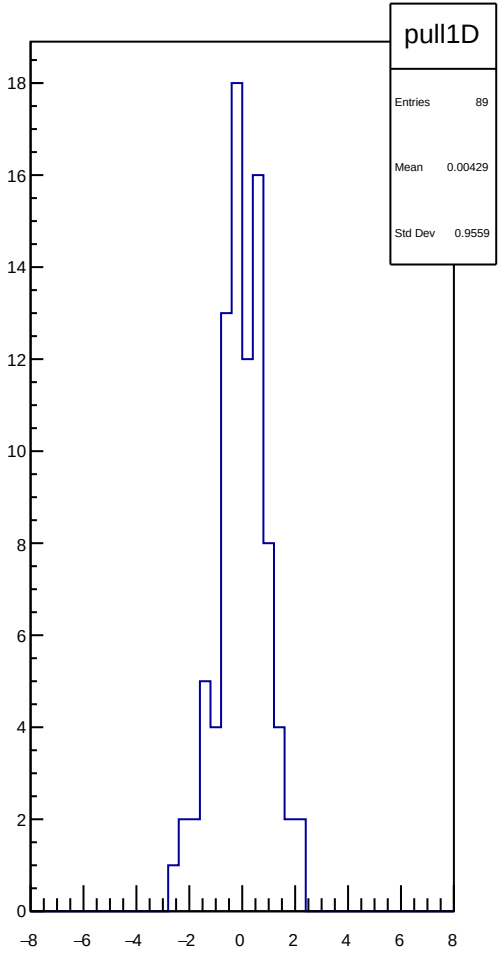

pull1D
Entries 89
Mean 0.003359
Std Dev 0.9566

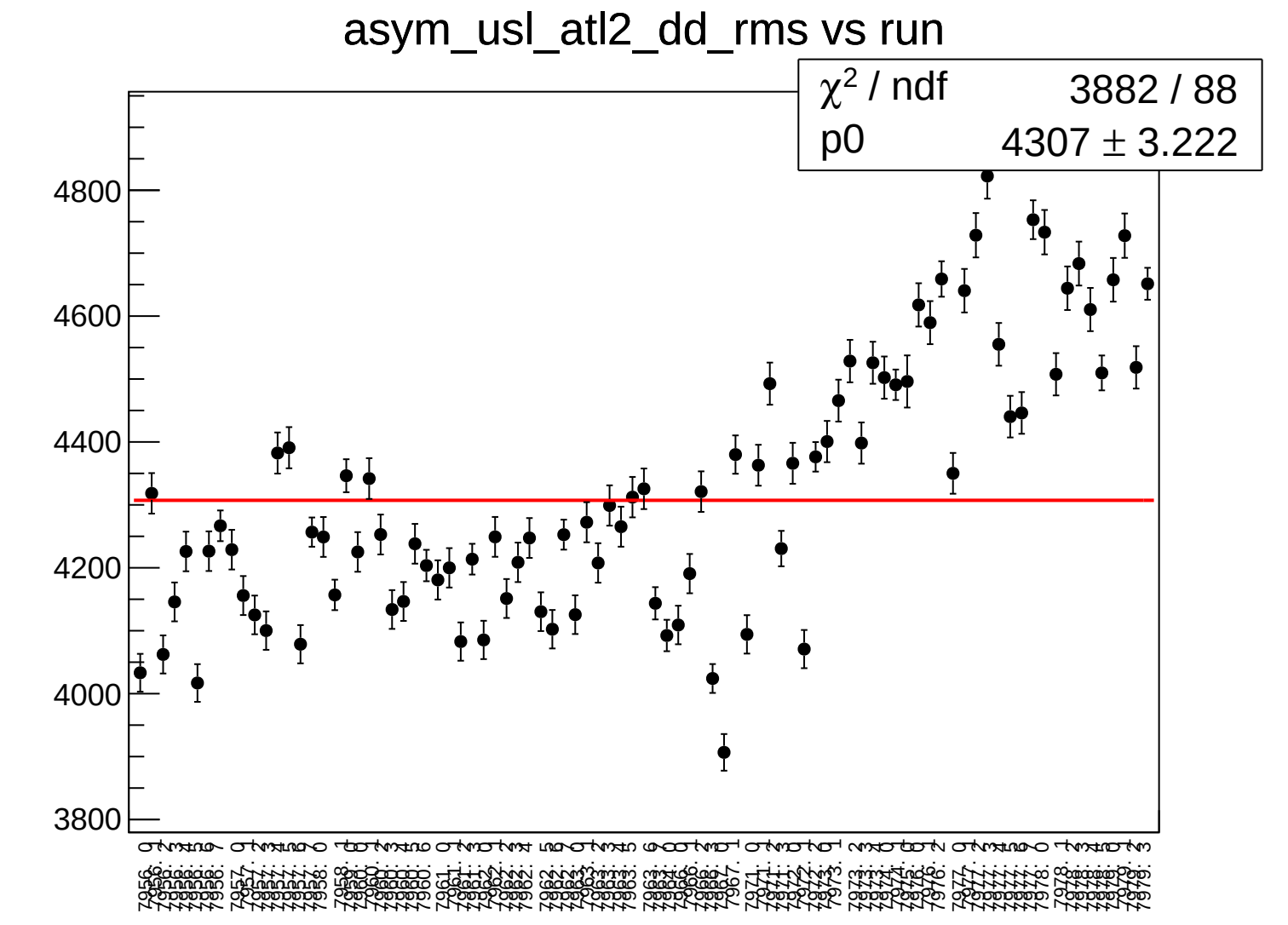

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 4140 / 88
p0 991.8 ± 0.742
1100
1050
1000
950
900

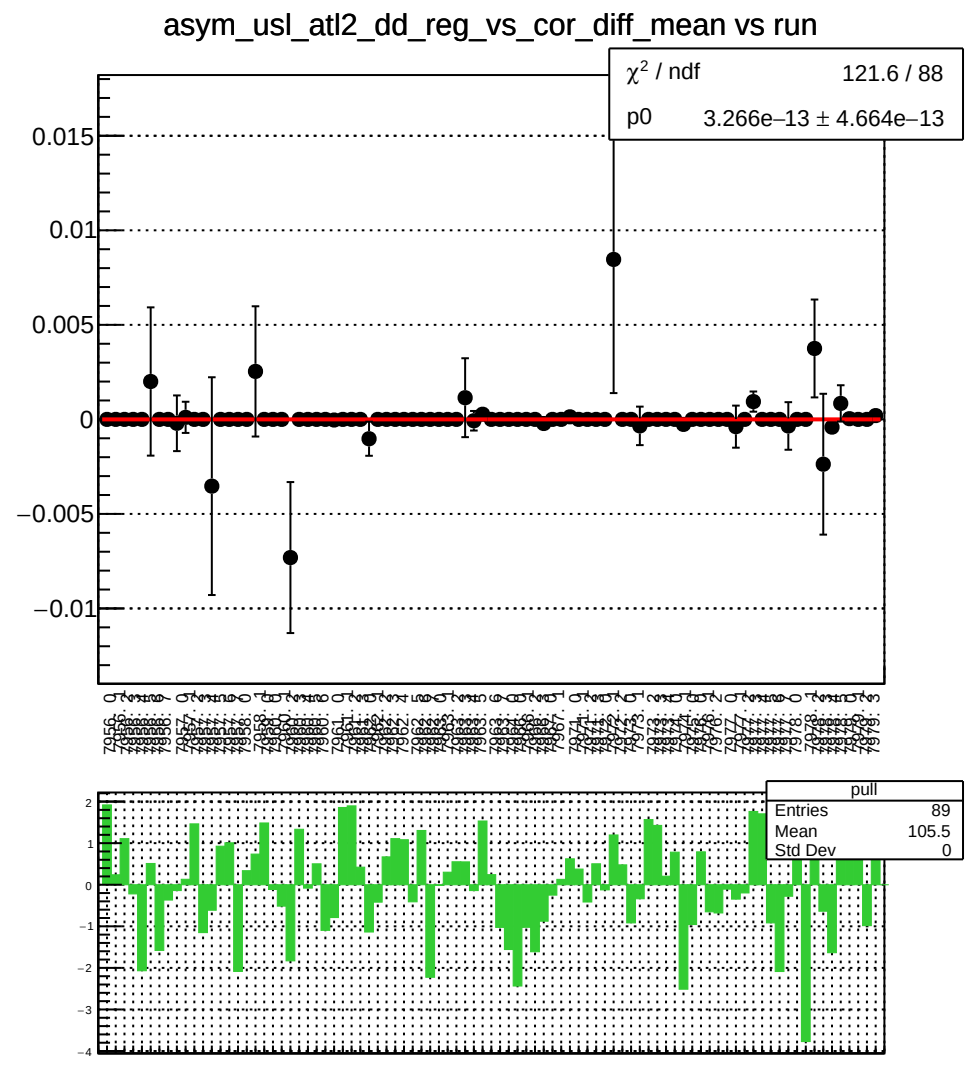

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.94 / 88
p0 −2732 ± 4491
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −526.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.003851
Std Dev 0.9826
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

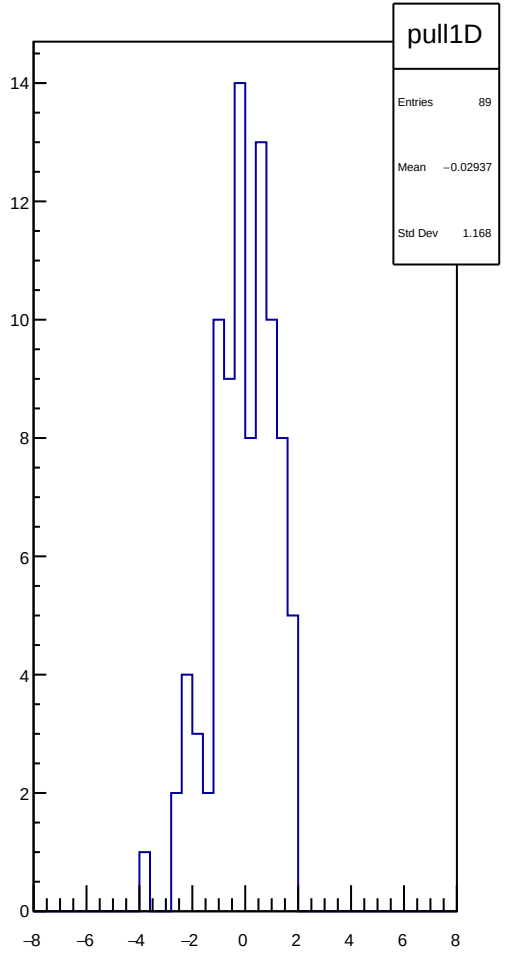

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4688 / 88
p0 4243 ± 3.175
5000
4800
4600
4400
4200
4000
3800

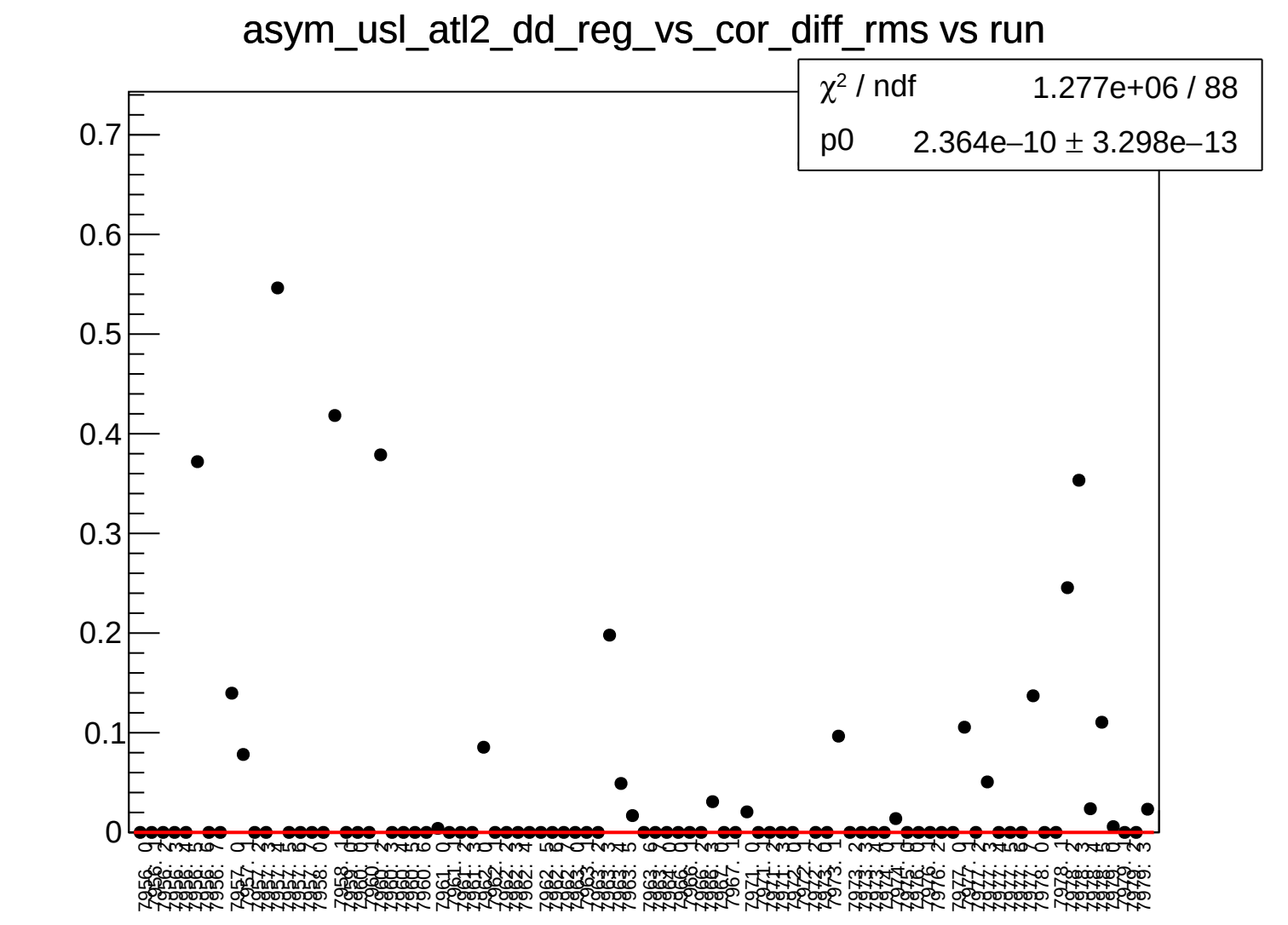

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 81.32 / 88
p0 3588 ± 4557
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −387.1
Std Dev 0
2
1
0
−1
−2

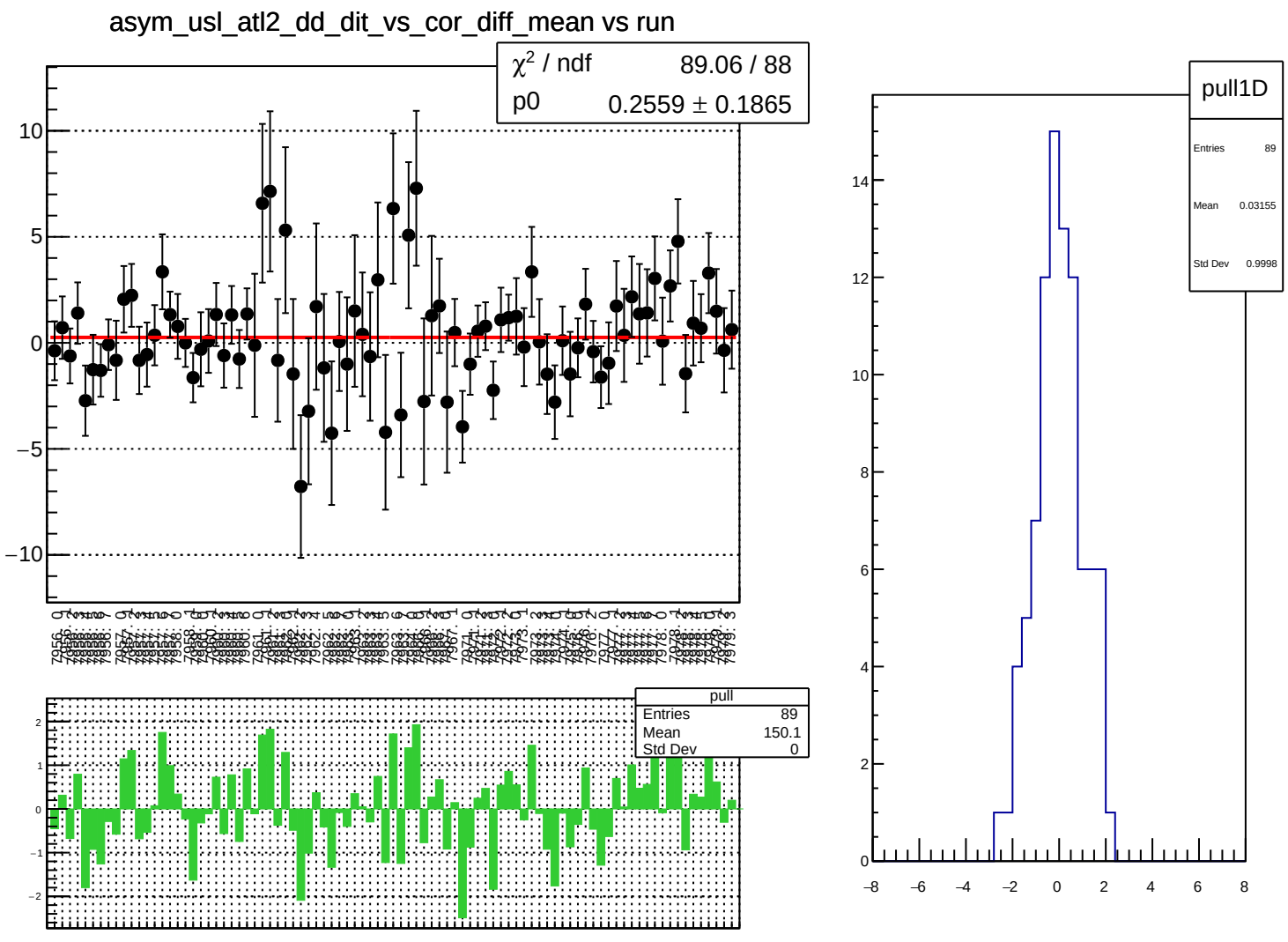

pull1D
Entries 89
Mean 0.00429
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

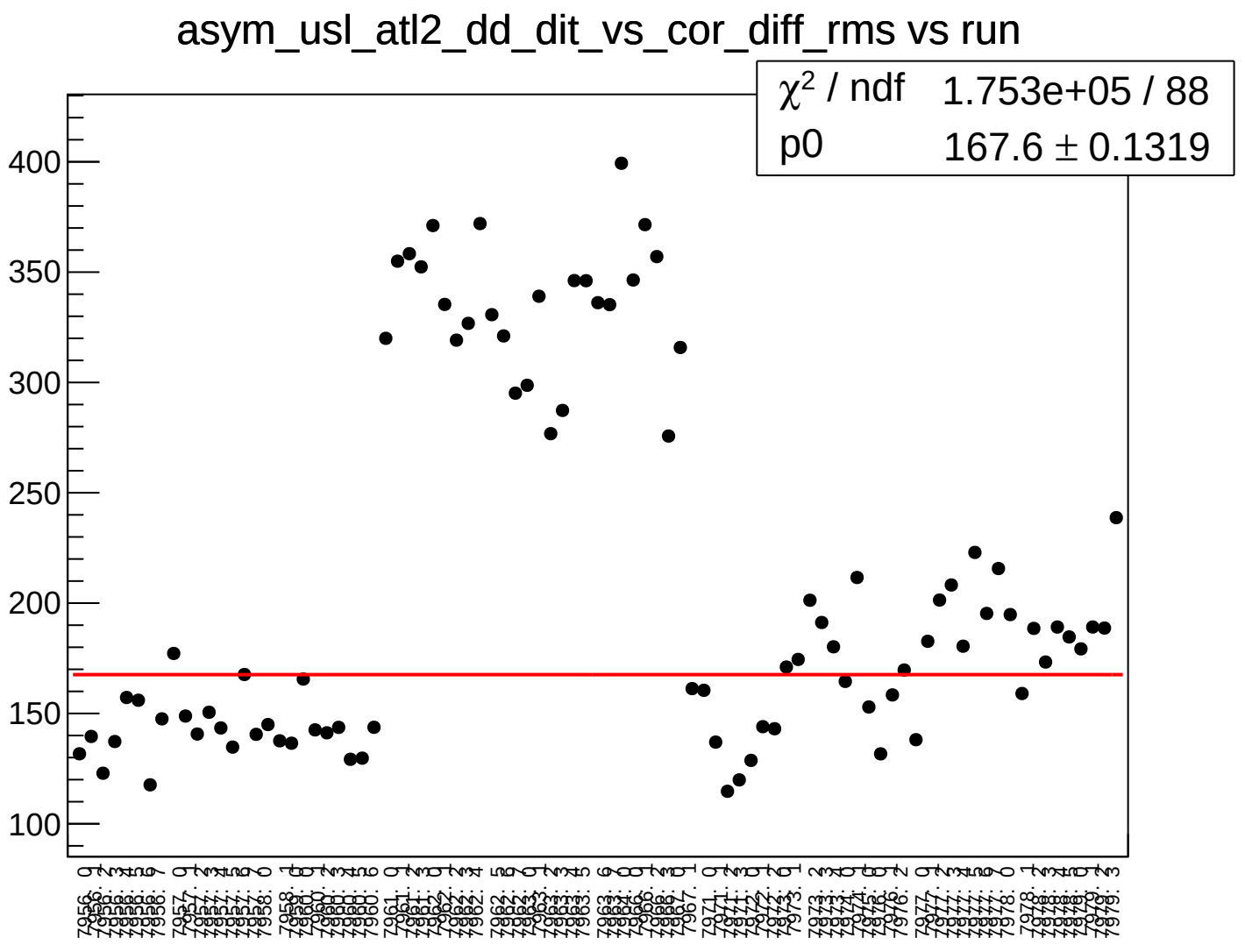

asym_usl_atl2_dd_rms vs run
χ² / ndf 3882 / 88
p0 4307 ± 3.222
4800
4600
4400
4200
4000
3800

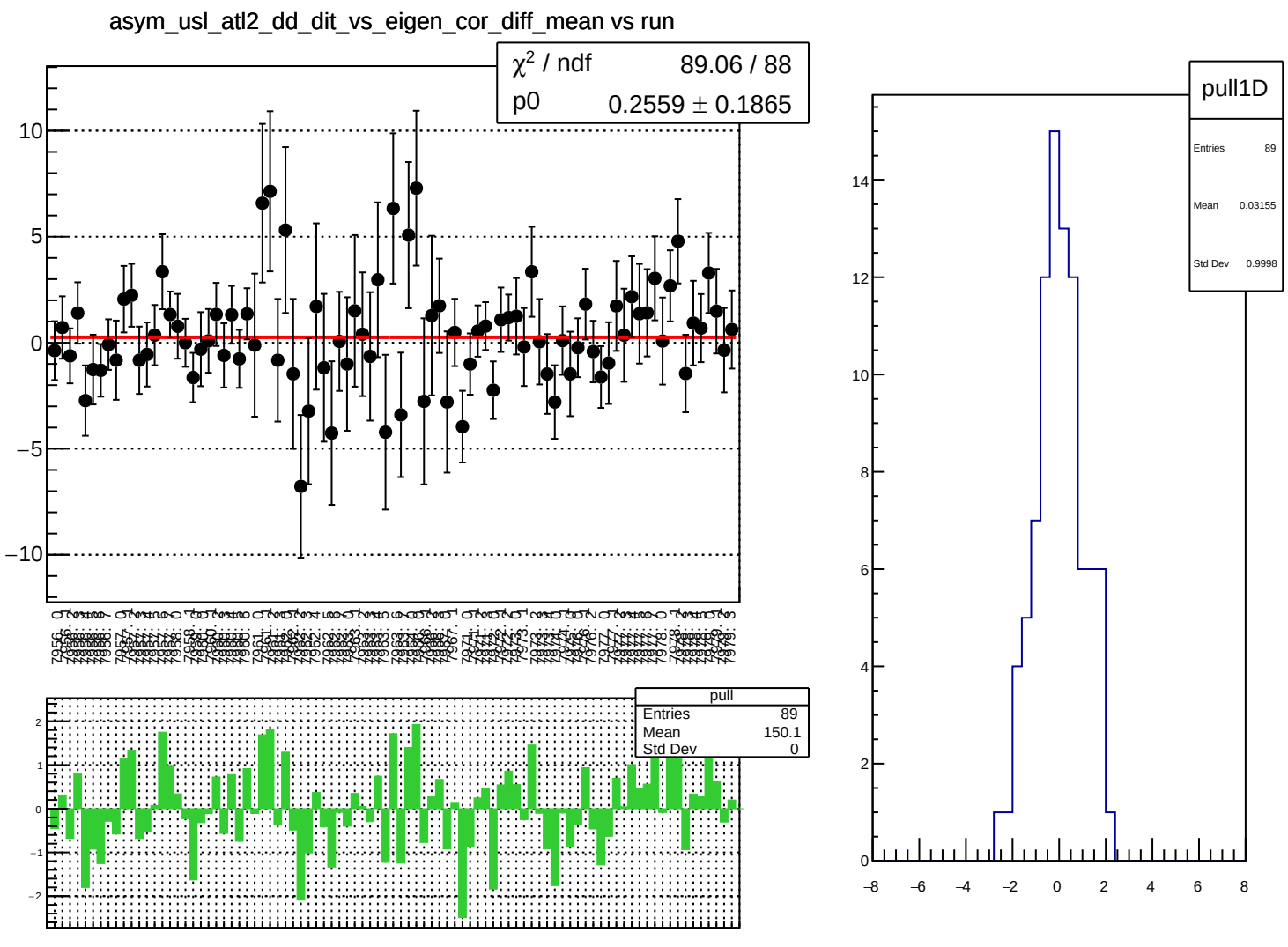

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 121.6 / 88
p0 3.266e−13 ± 4.664e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 105.5
Std Dev 0
2
1
0
−1
−2
−3
−4

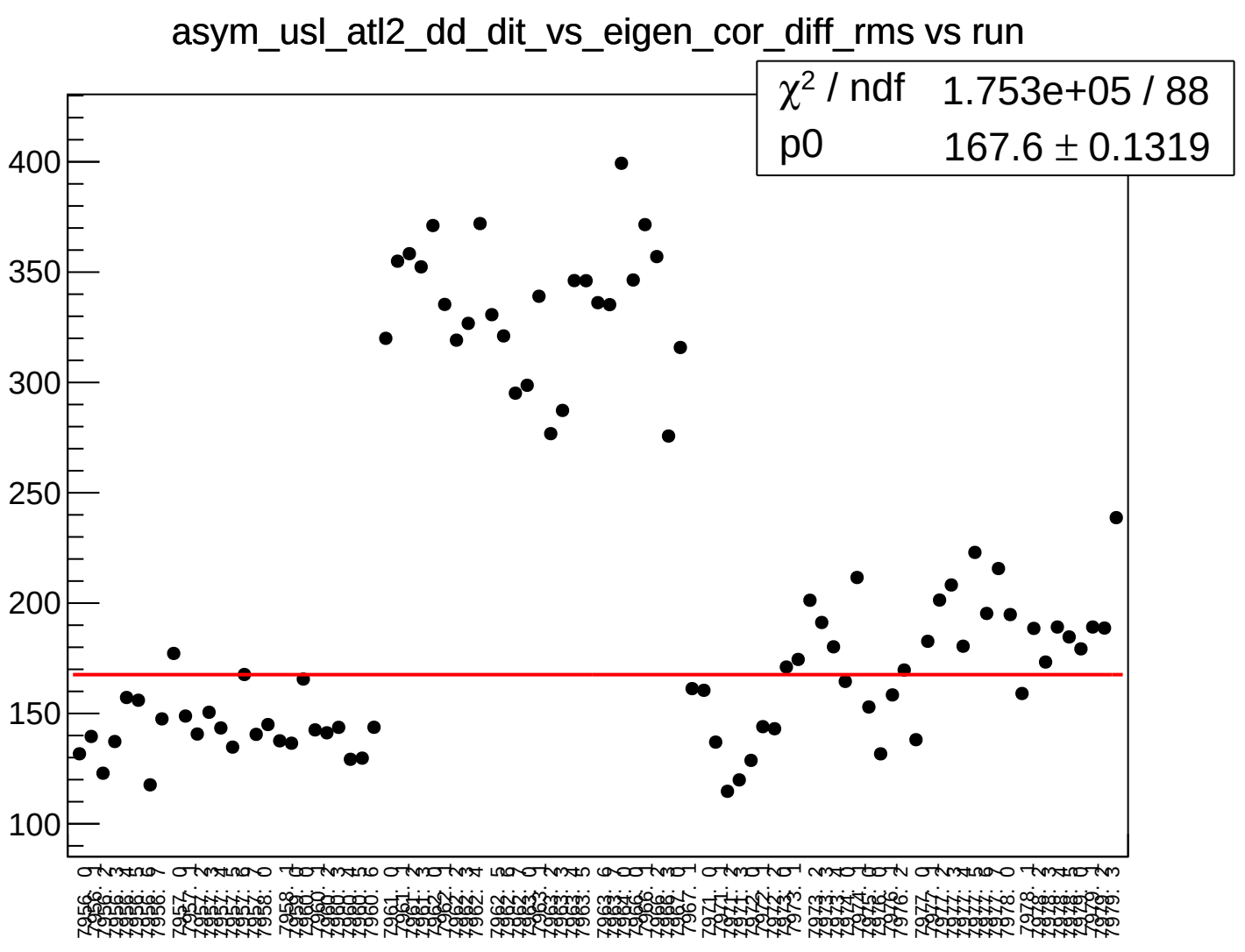

pull1D
Entries 89
Mean −0.02937
Std Dev 1.168
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

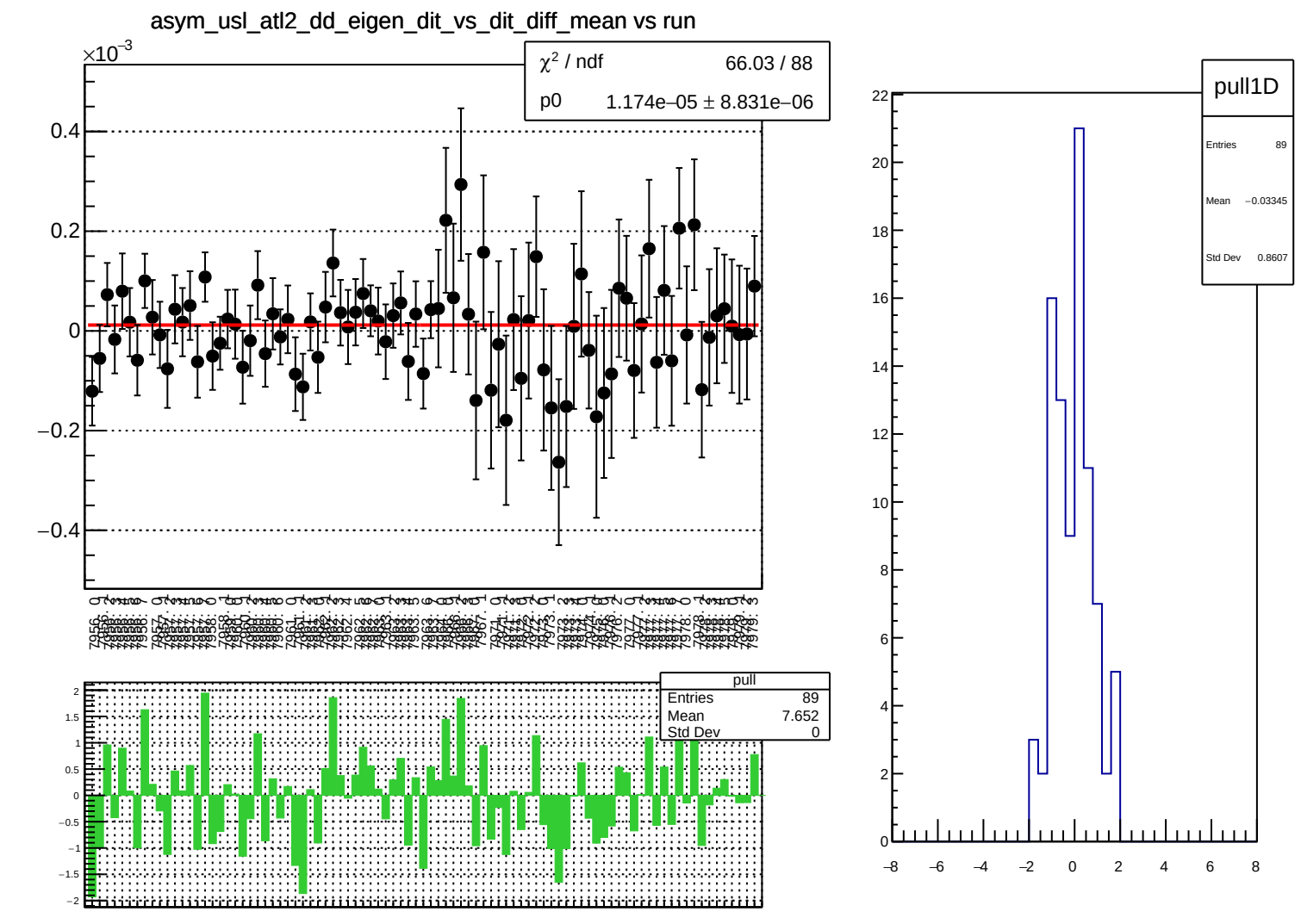

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.277e+06 / 88
p0 2.364e−10 ± 3.298e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

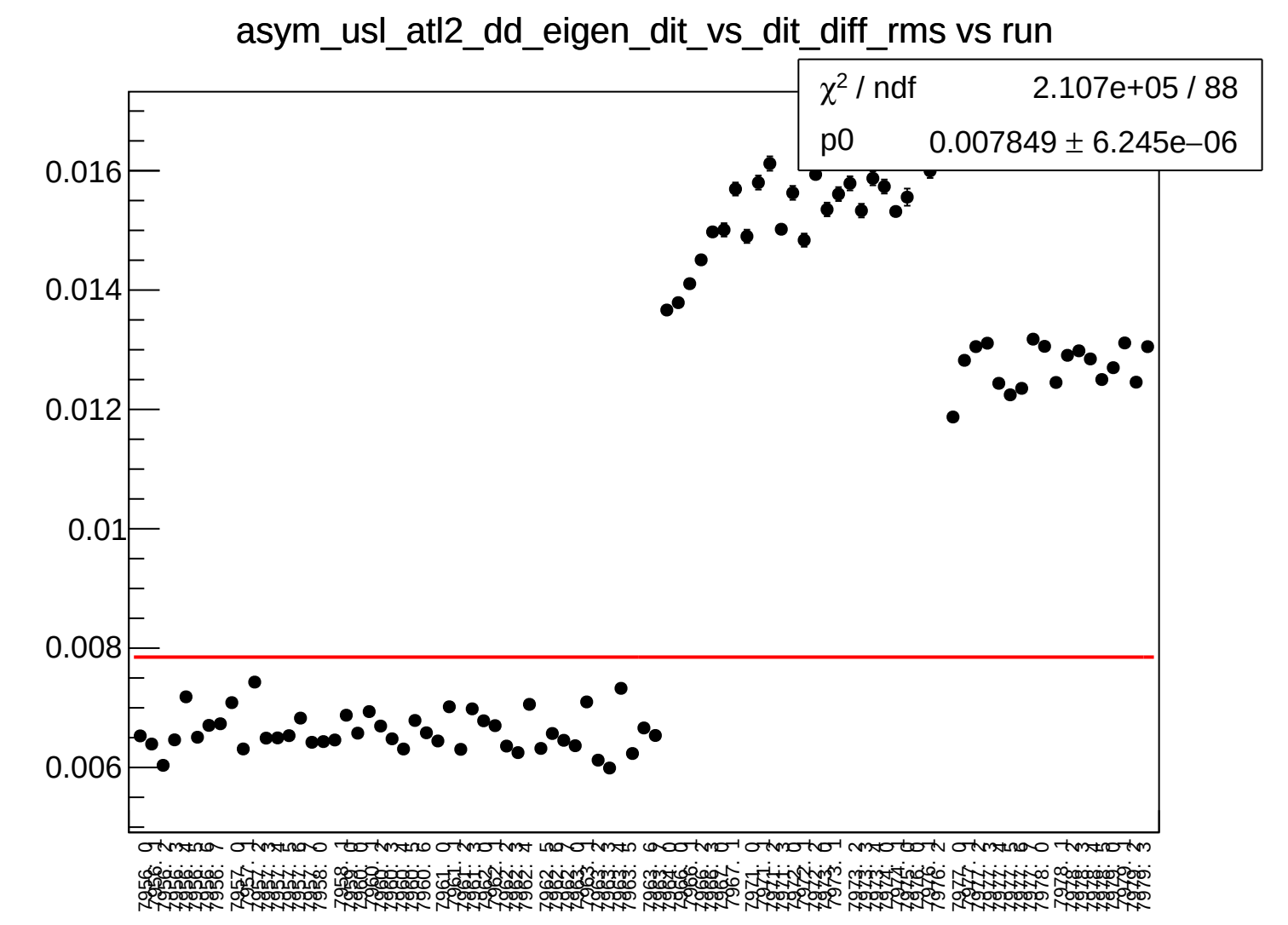

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.06 / 88
p0 0.2559 ± 0.1865
pull
Entries 89
Mean 150.1
Std Dev 0
pull1D
Entries 89
Mean 0.03155
Std Dev 0.9998

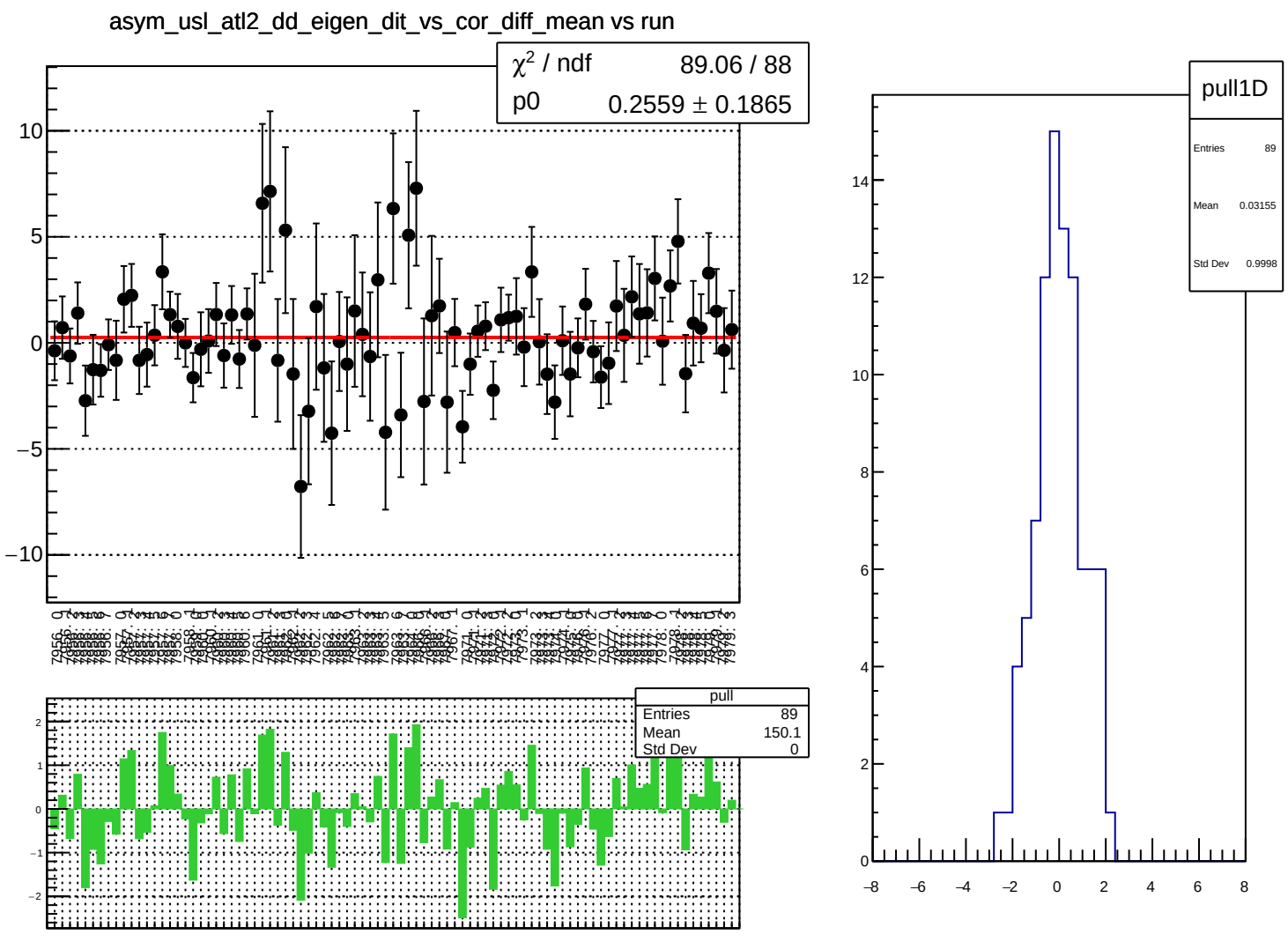

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.753e+05 / 88
p0 167.6 ± 0.1319
400
350
300
250
200
150
100

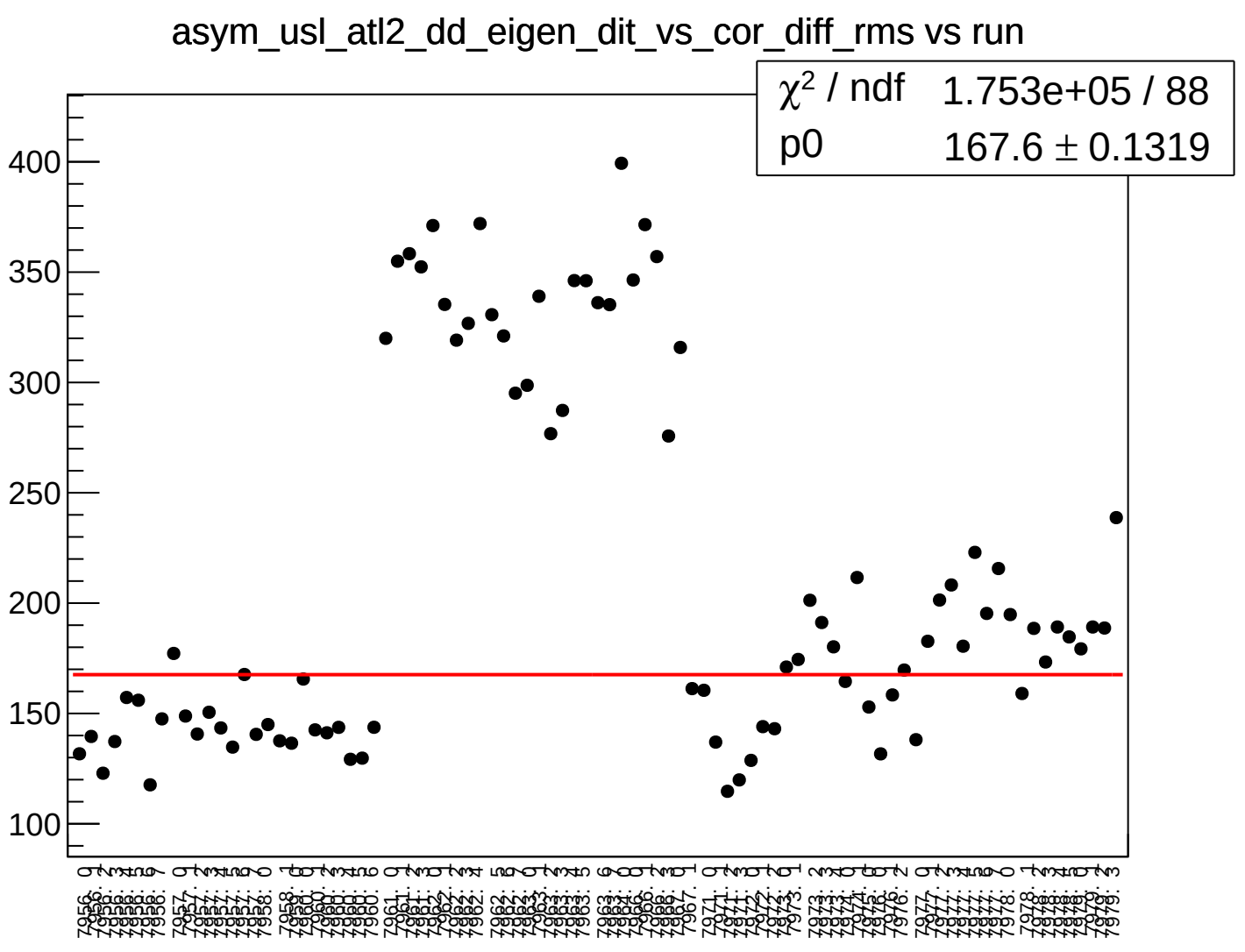

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.06 / 88
p0 0.2559 ± 0.1865
pull
Entries 89
Mean 150.1
Std Dev 0
pull1D
Entries 89
Mean 0.03155
Std Dev 0.9998

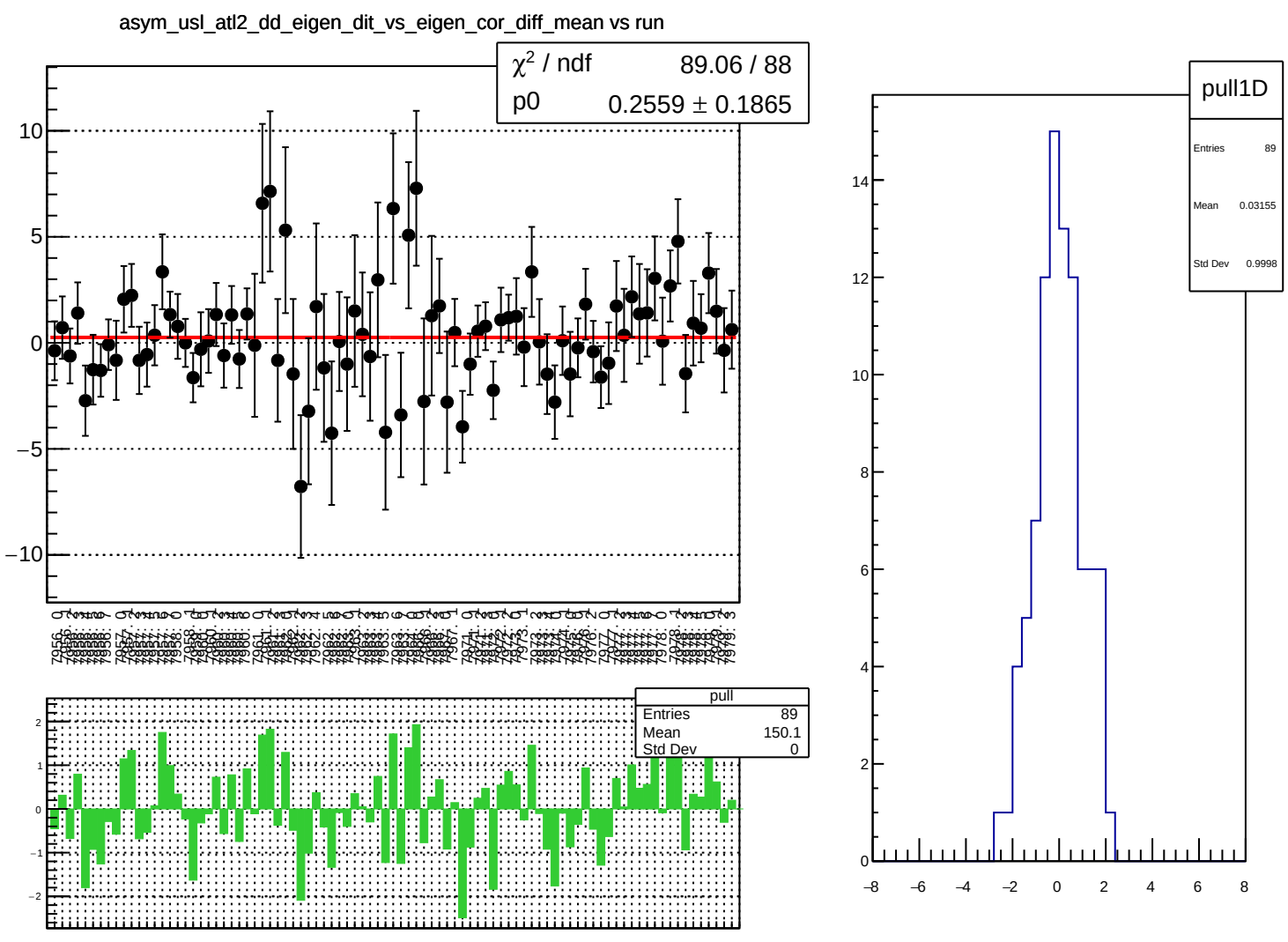

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.753e+05 / 88
p0 167.6 ± 0.1319
400
350
300
250
200
150
100

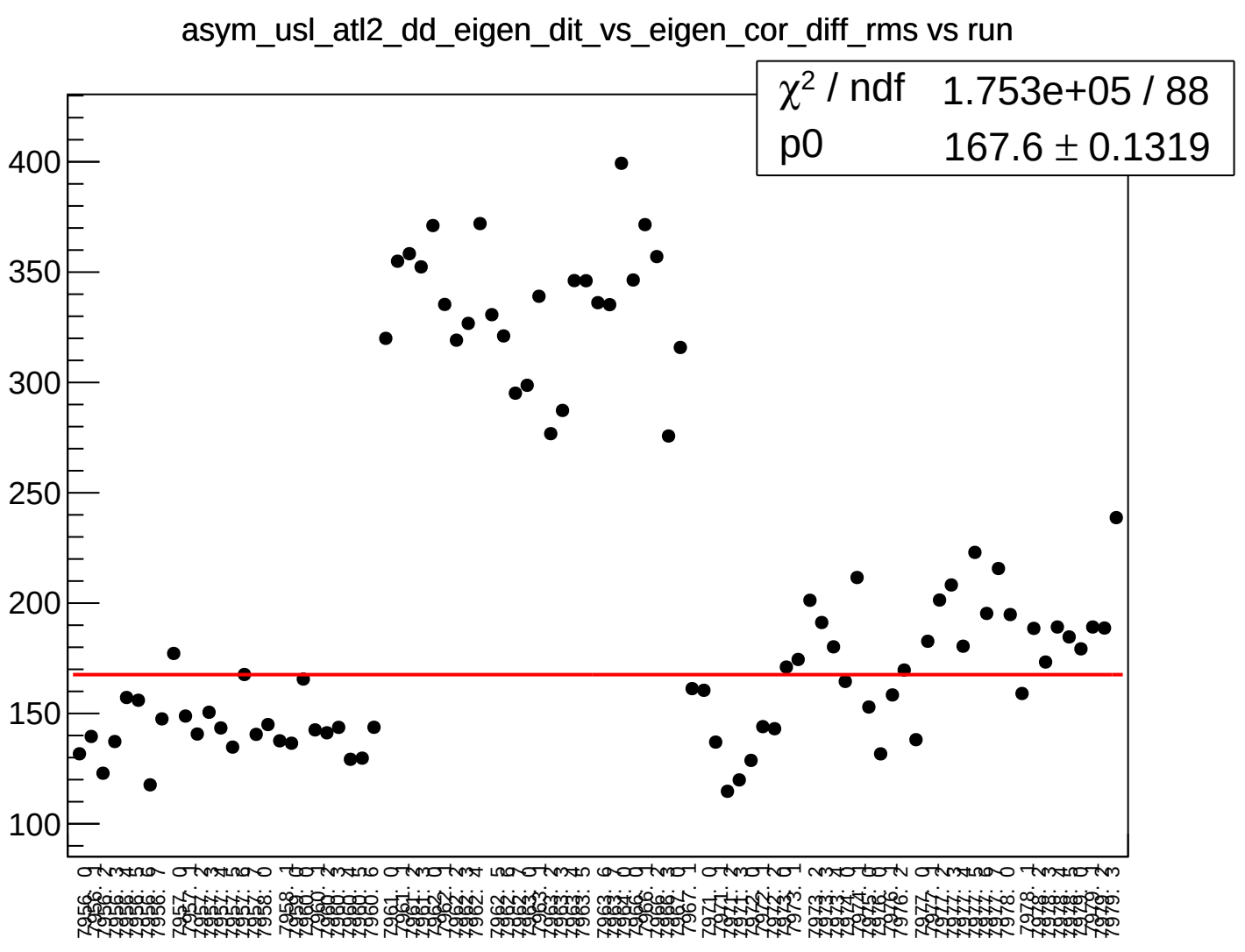

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 66.03 / 88
p0 1.174e−05 ± 8.831e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 7.652
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.03345
Std Dev 0.8607
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

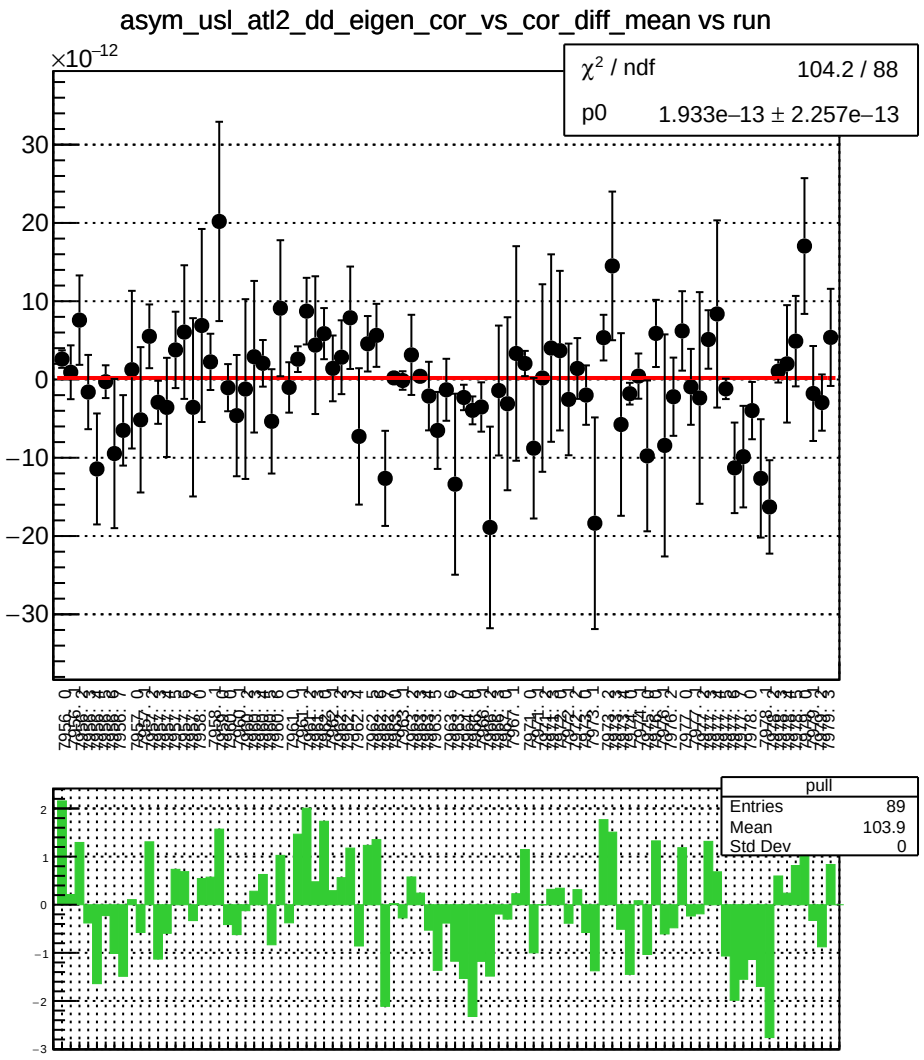

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.107e+05 / 88
p0 0.007849 ± 6.245e−06
0.016
0.014
0.012
0.01
0.008
0.006

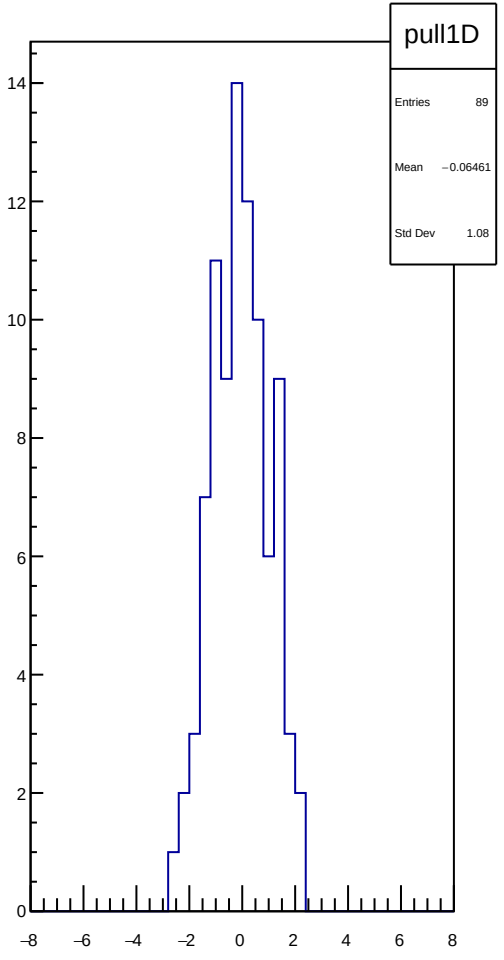

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.06 / 88
p0 0.2559 ± 0.1865
pull
Entries 89
Mean 150.1
Std Dev 0
pull1D
Entries 89
Mean 0.03155
Std Dev 0.9998

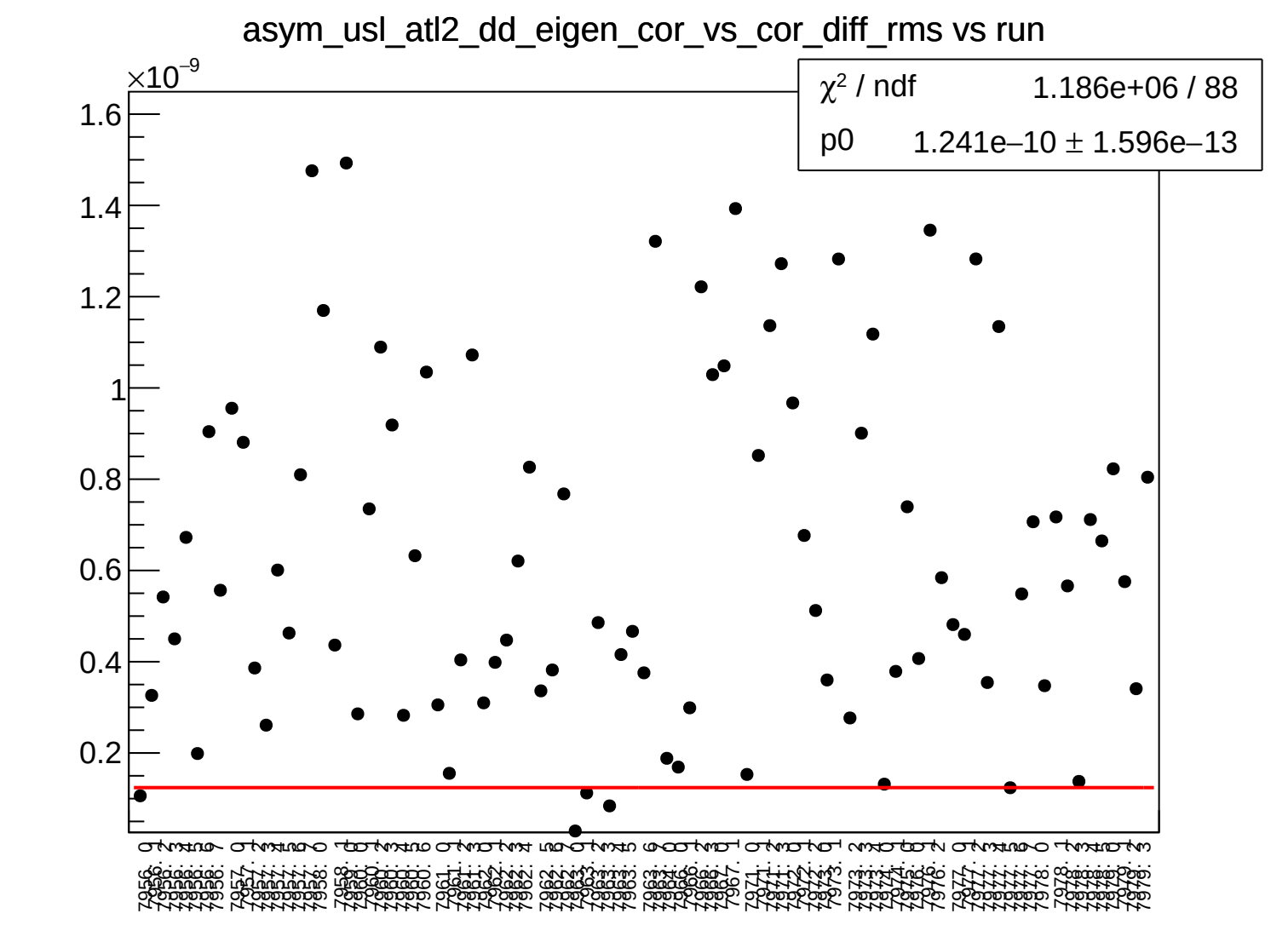

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.753e+05 / 88
p0 167.6 ± 0.1319
400
350
300
250
200
150
100

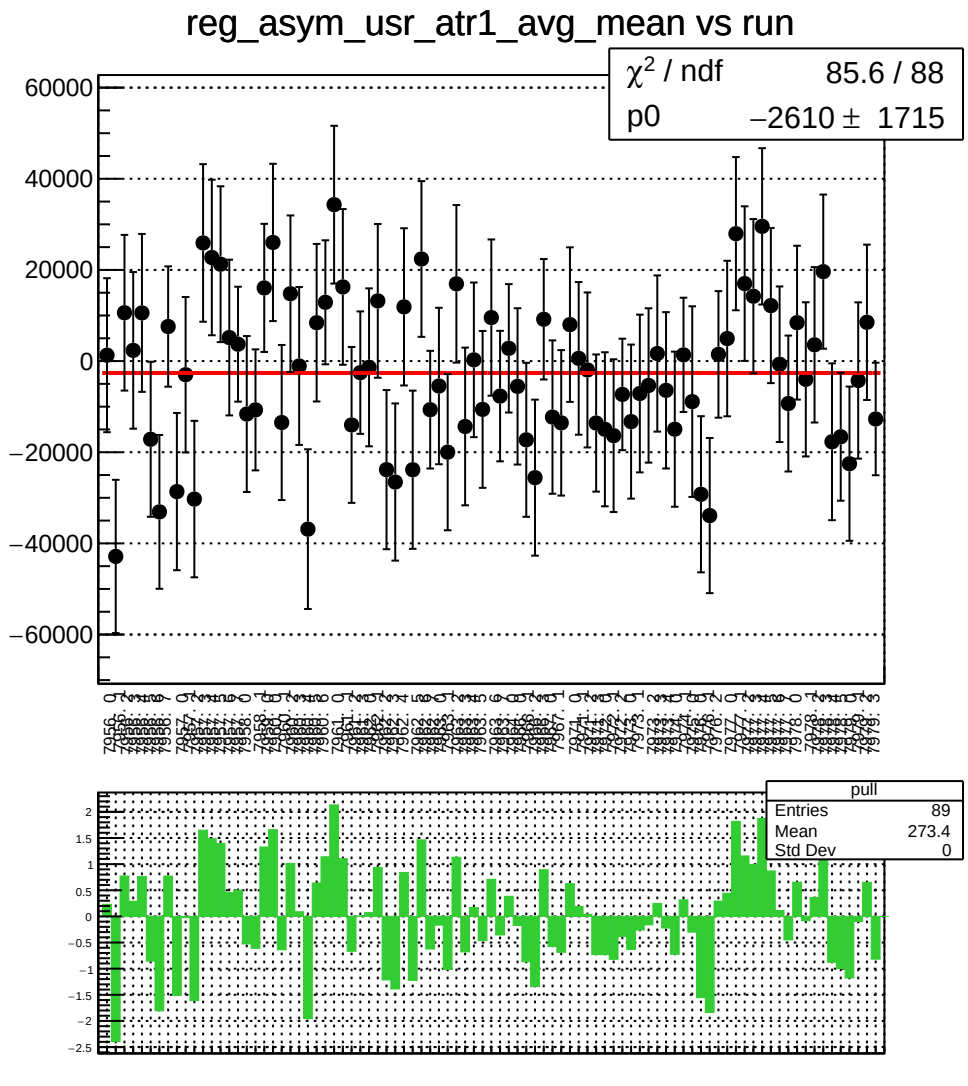

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.06 / 88
p0 0.2559 ± 0.1865
pull
Entries 89
Mean 150.1
Std Dev 0
pull1D
Entries 89
Mean 0.03155
Std Dev 0.9998

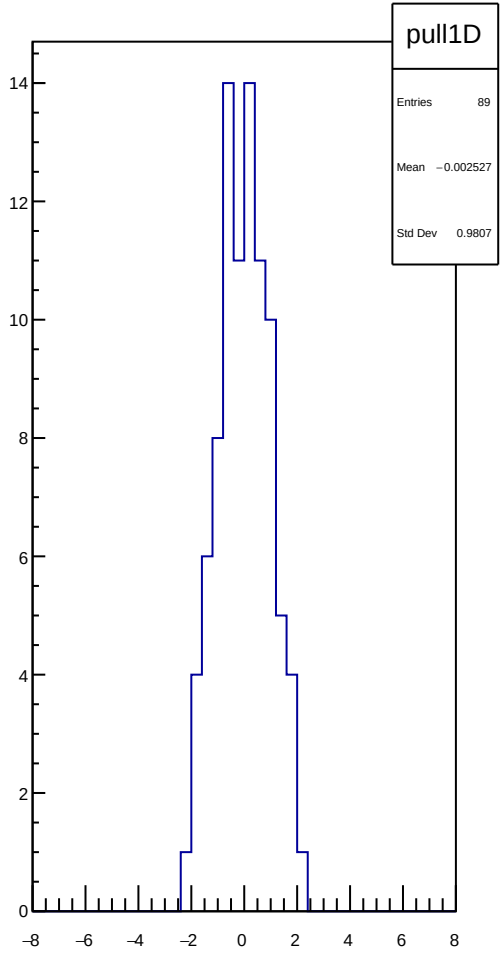

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.753e+05 / 88
p0 167.6 ± 0.1319
400
350
300
250
200
150
100

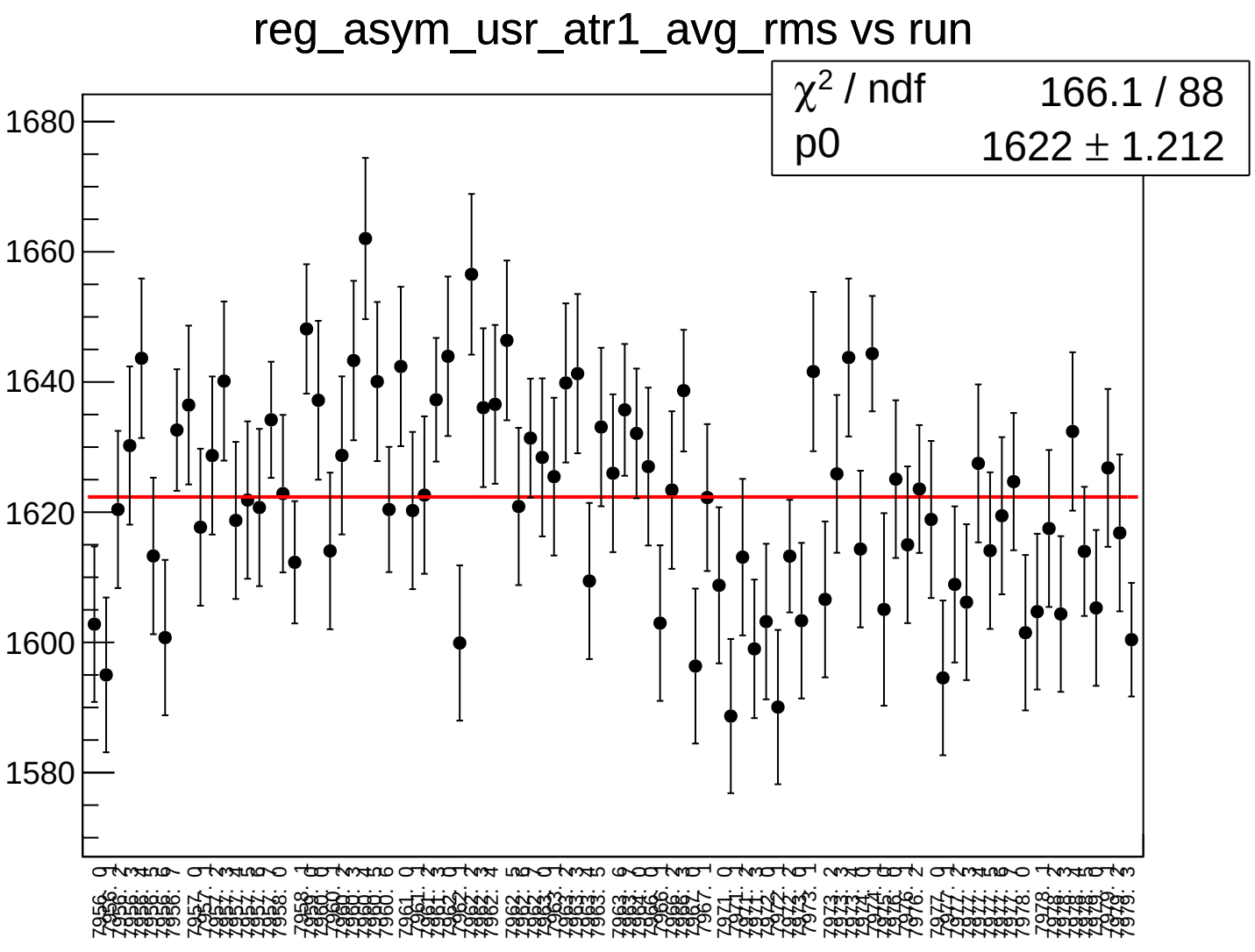

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.2 / 88
p0 1.933e−13 ± 2.257e−13
pull
Entries 89
Mean 103.9
Std Dev 0

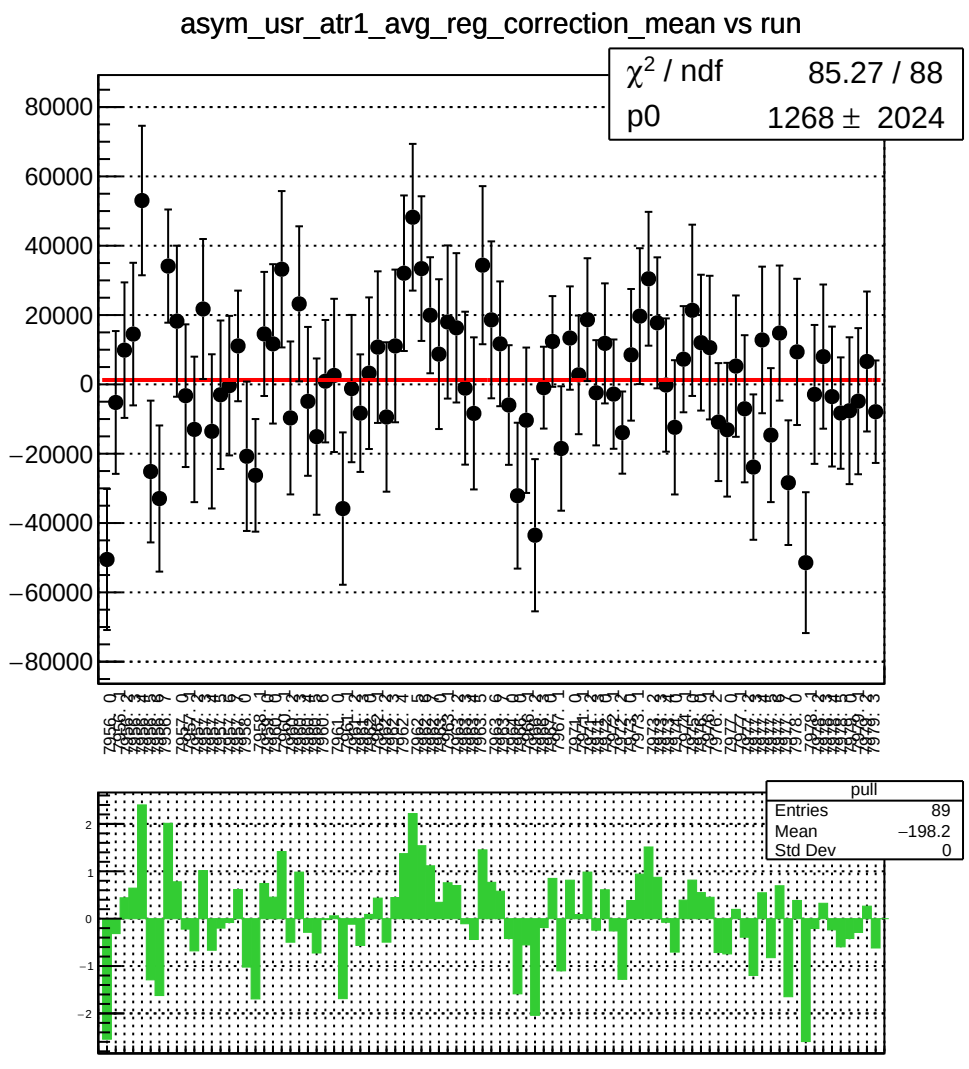

pull1D
Entries 89
Mean −0.06461
Std Dev 1.08

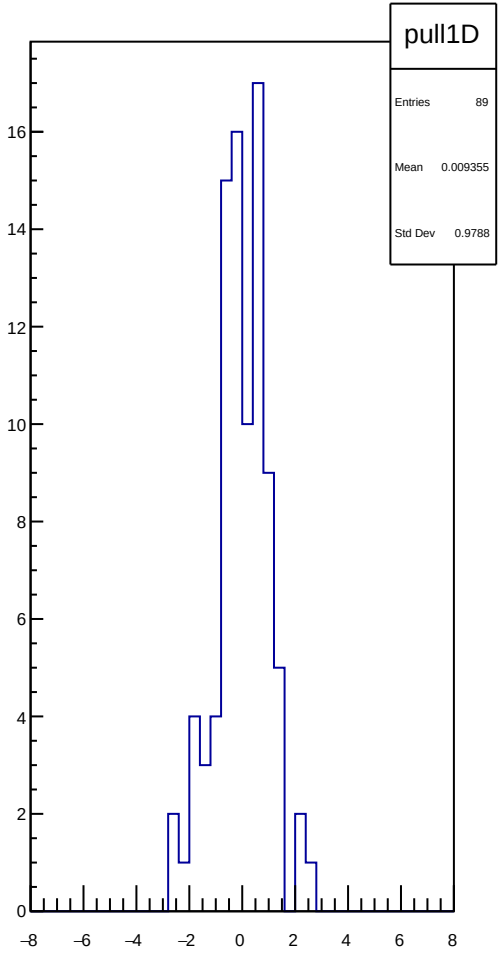

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.186e+06 / 88
p0 1.241e−10 ± 1.596e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

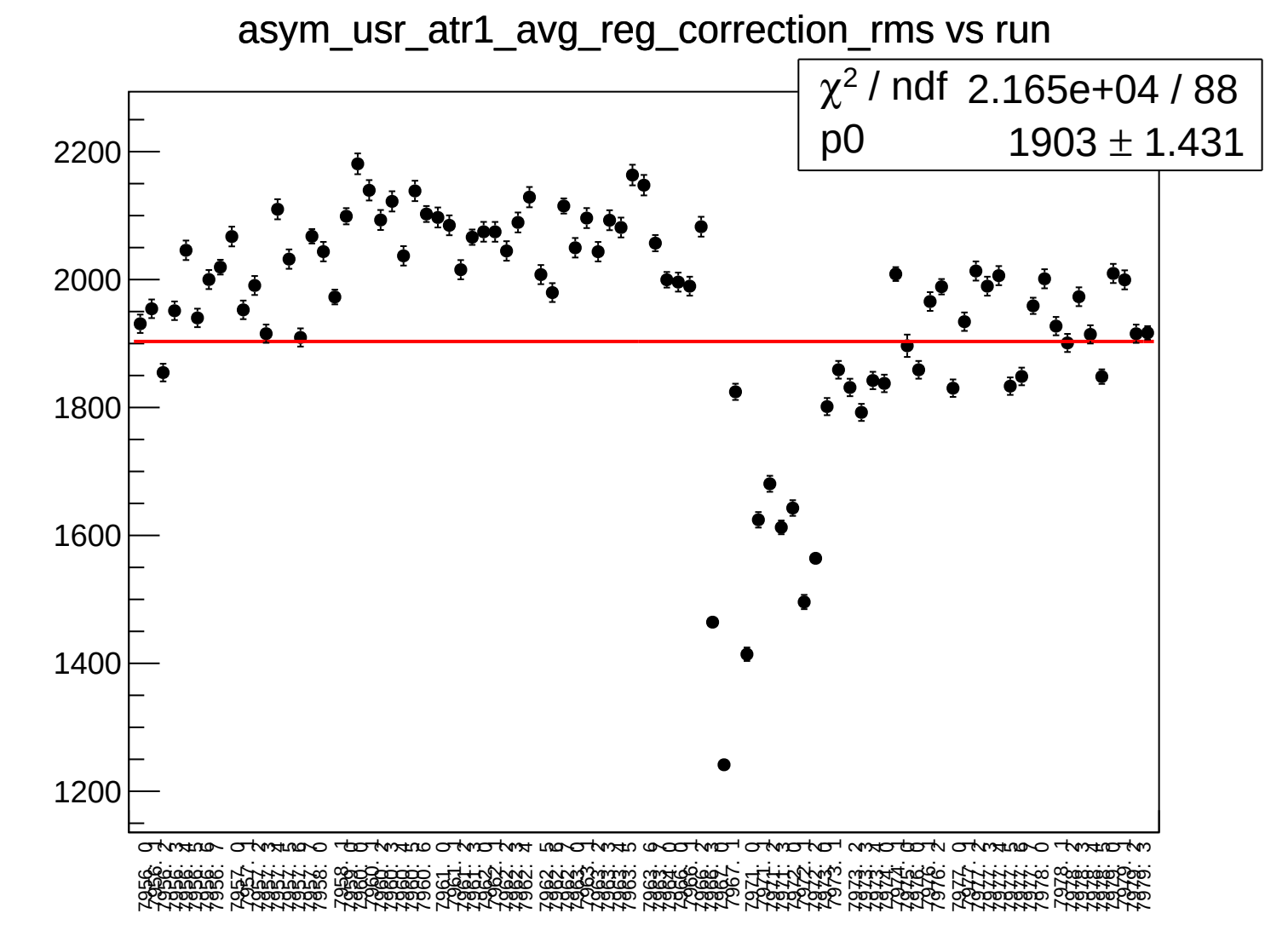

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 85.6 / 88
p0 −2610 ± 1715
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 273.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

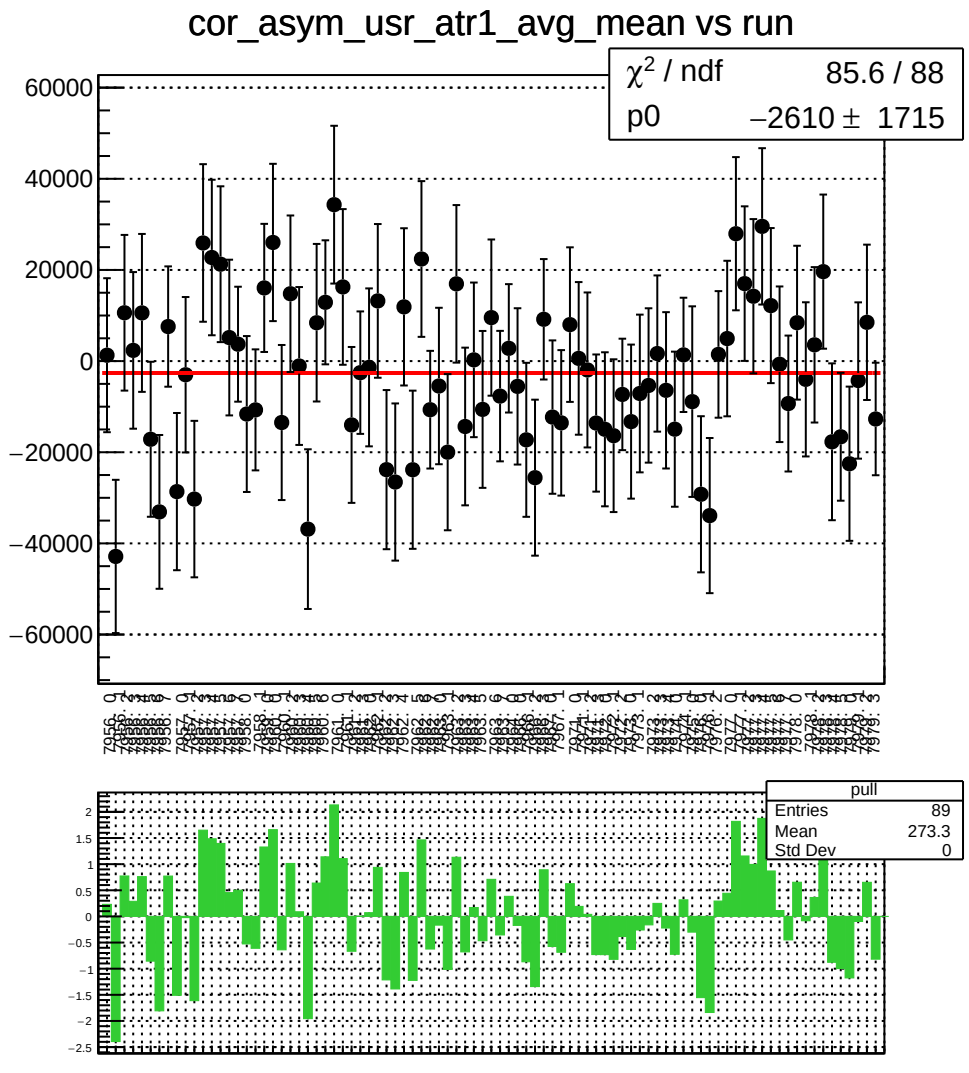

pull1D
Entries 89
Mean −0.002527
Std Dev 0.9807
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

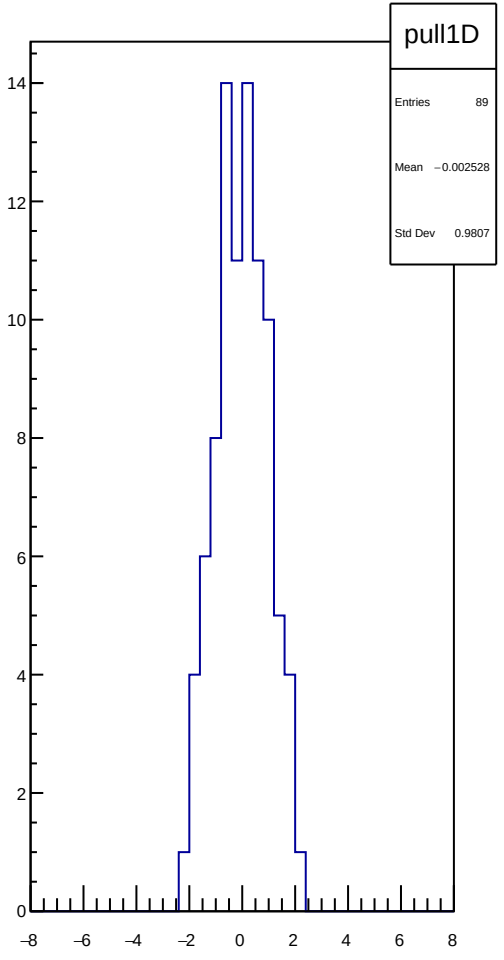

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 166.1 / 88
p0 1622 ± 1.212
1680
1660
1640
1620
1600
1580

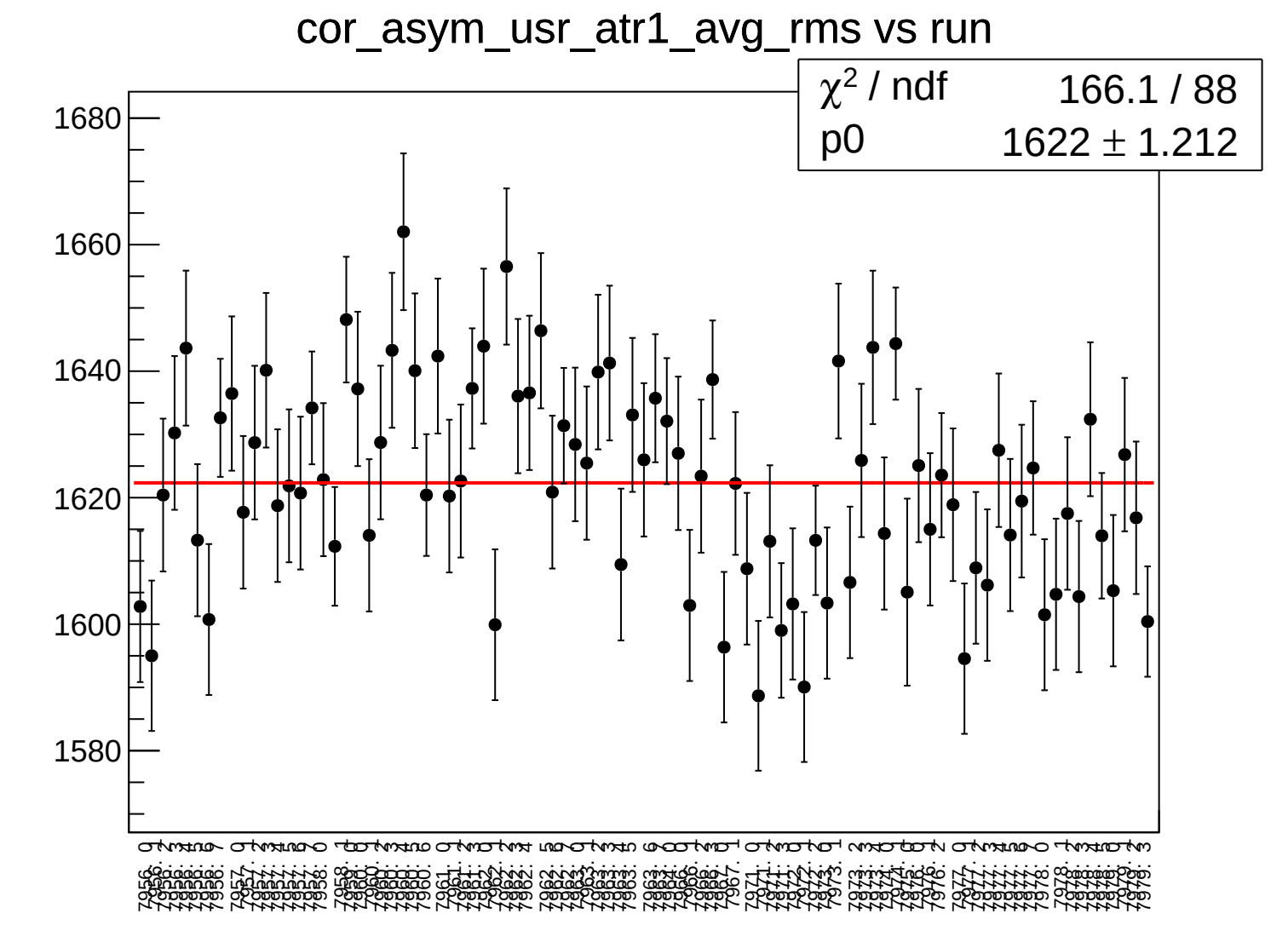

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 85.27 / 88
p0 1268 ± 2024
pull
Entries 89
Mean −198.2
Std Dev 0

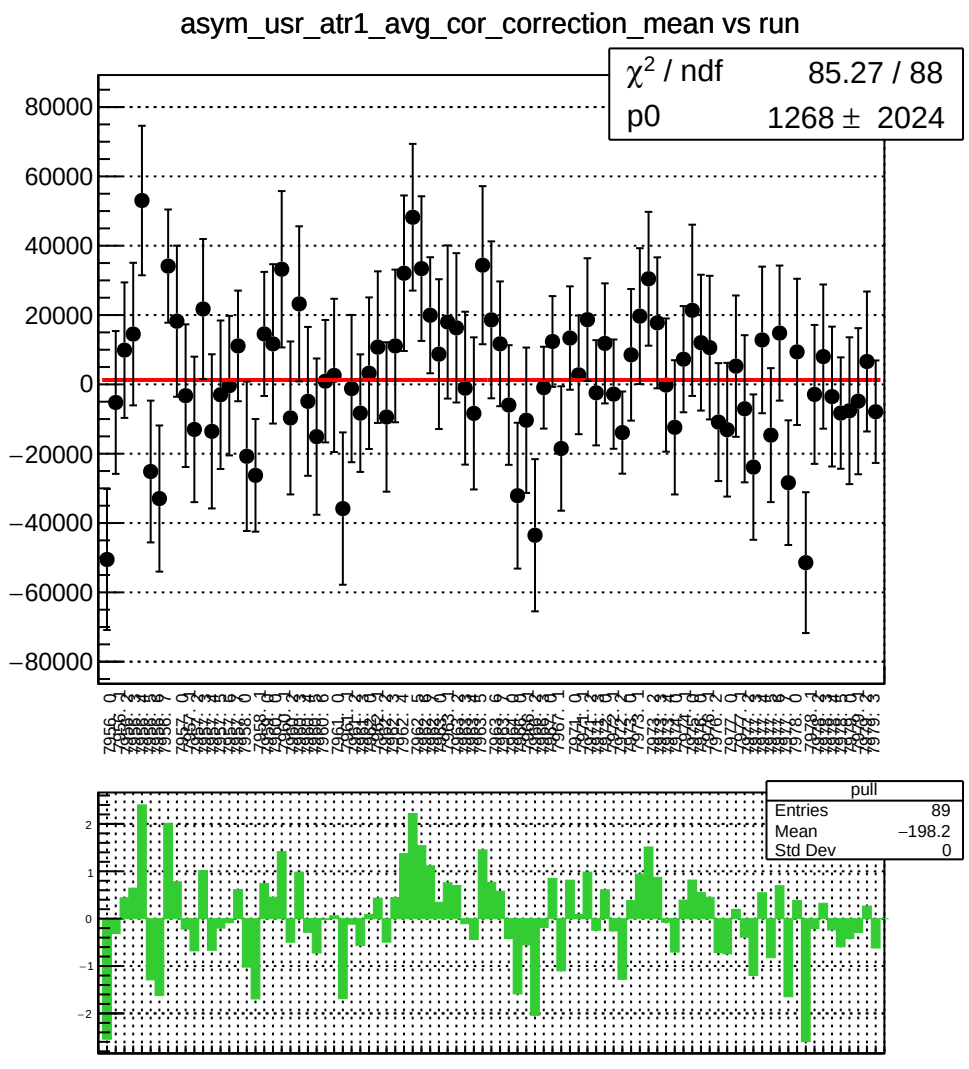

pull1D
Entries 89
Mean 0.009355
Std Dev 0.9788

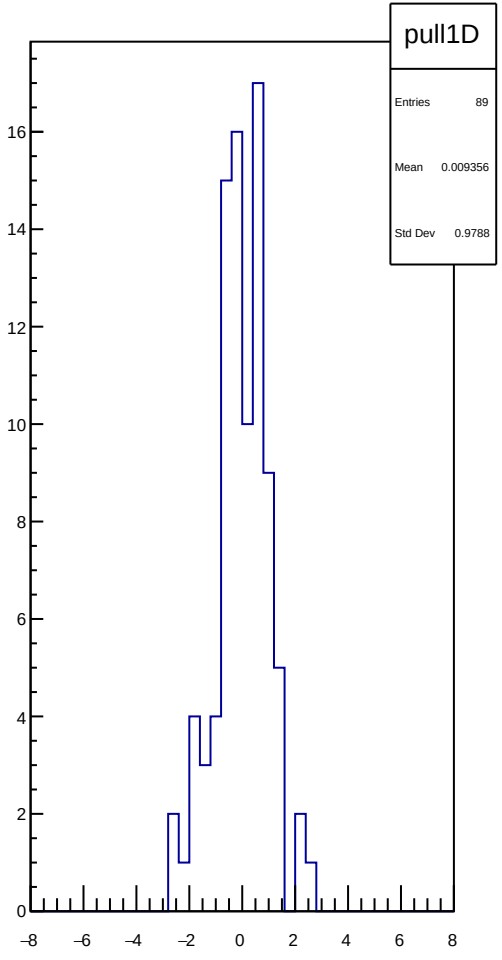

asym_usr_atr1_avg_reg_correction_rms vs run
$\chi^2$ / ndf 2.165e+04 / 88
p0 1903 ± 1.431
2200
2000
1800
1600
1400
1200

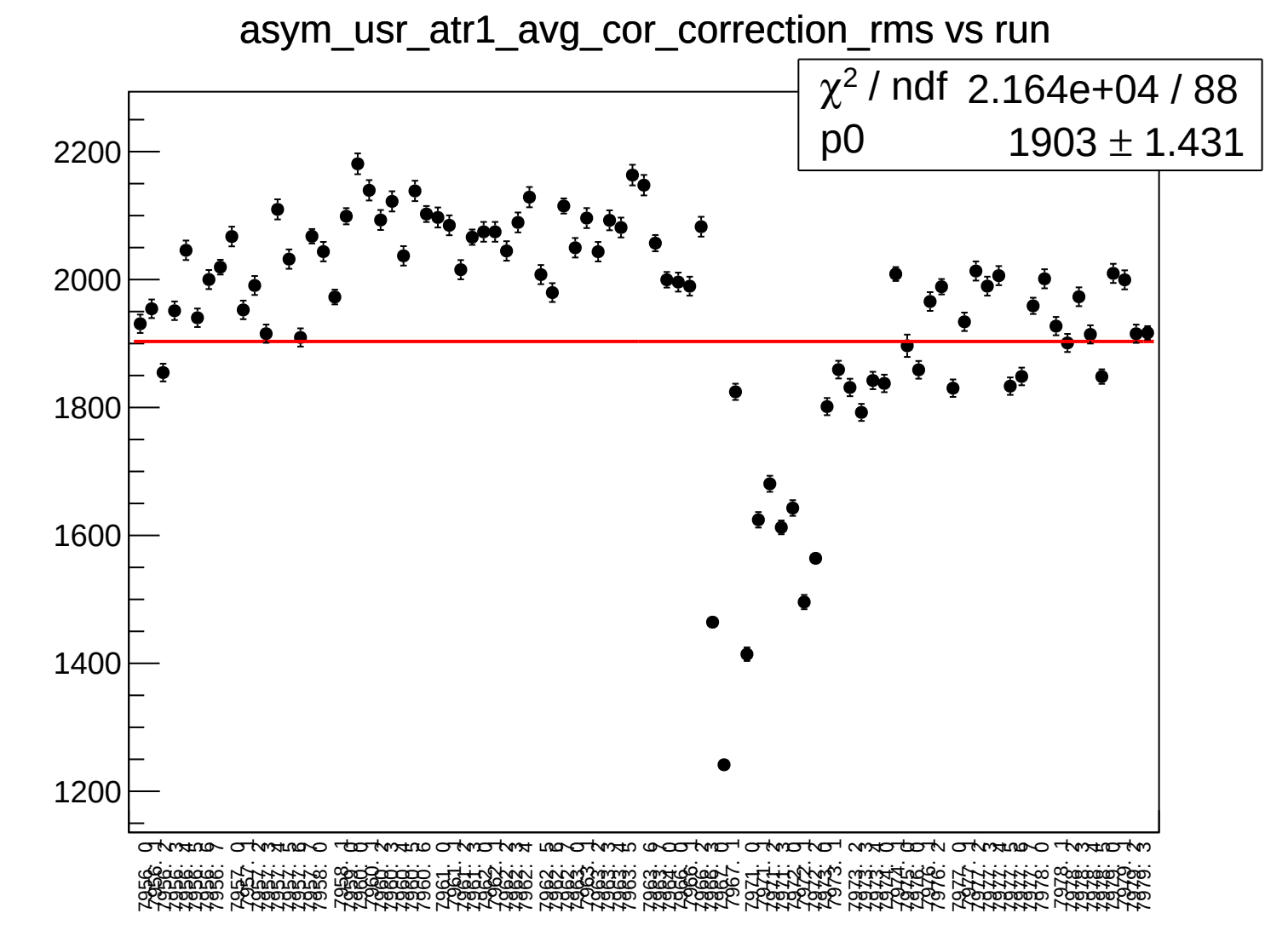

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 85.6 / 88
p0 −2610 ± 1715
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 273.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

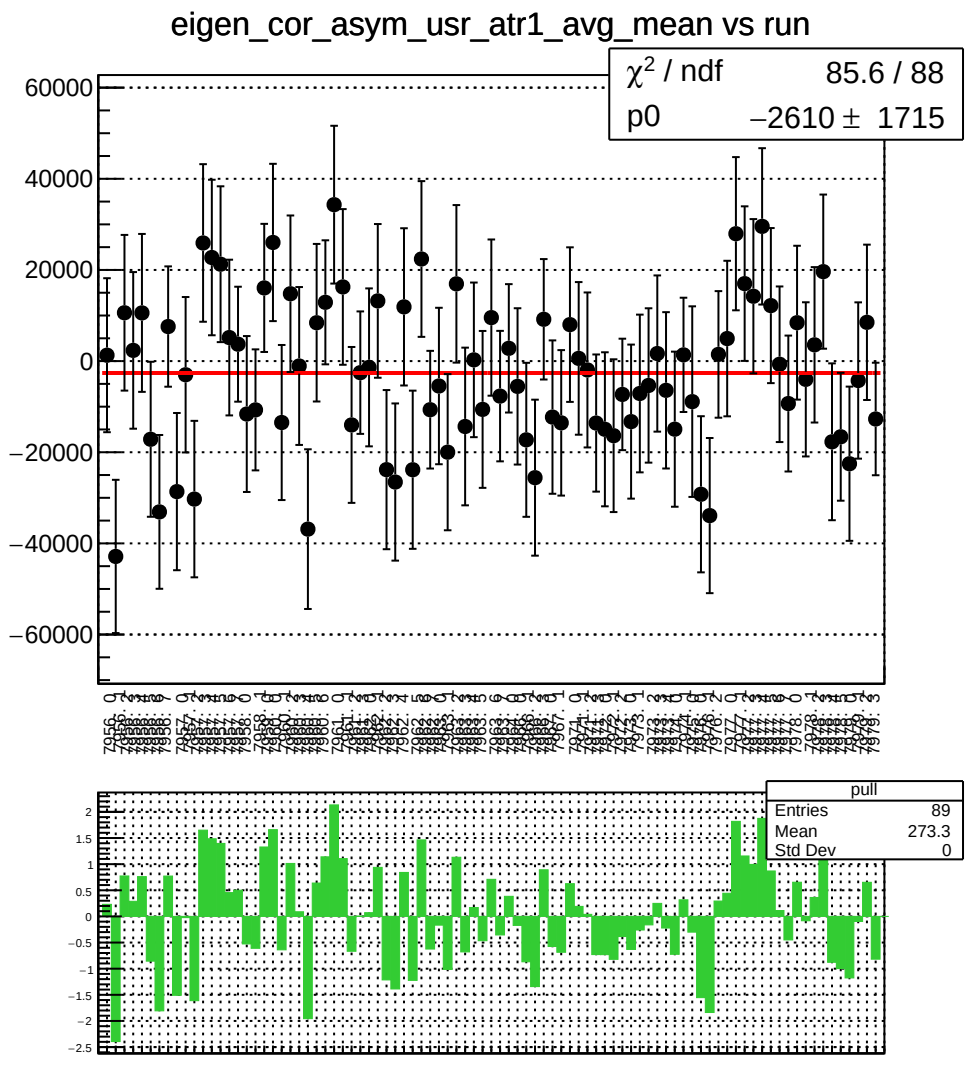

pull1D
Entries 89
Mean −0.002528
Std Dev 0.9807
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

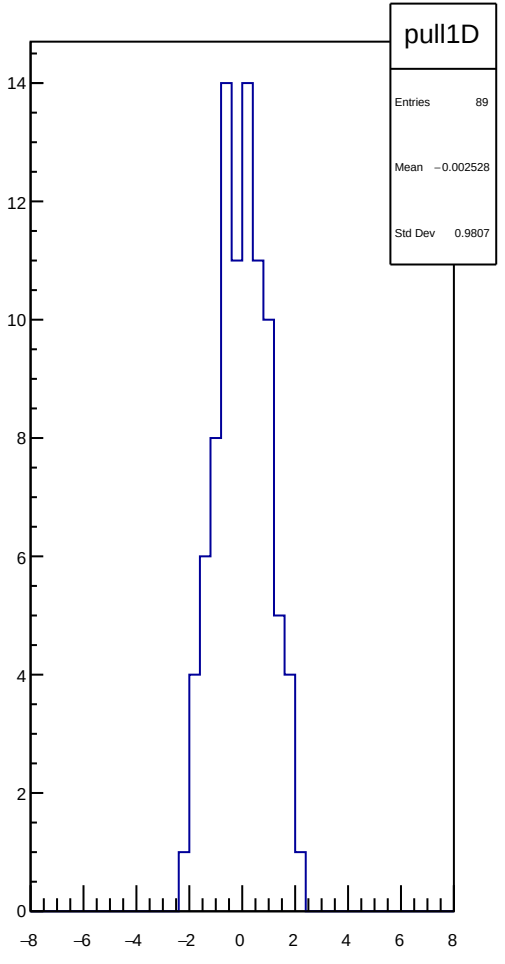

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 166.1 / 88
p0 1622 ± 1.212
1680
1660
1640
1620
1600
1580

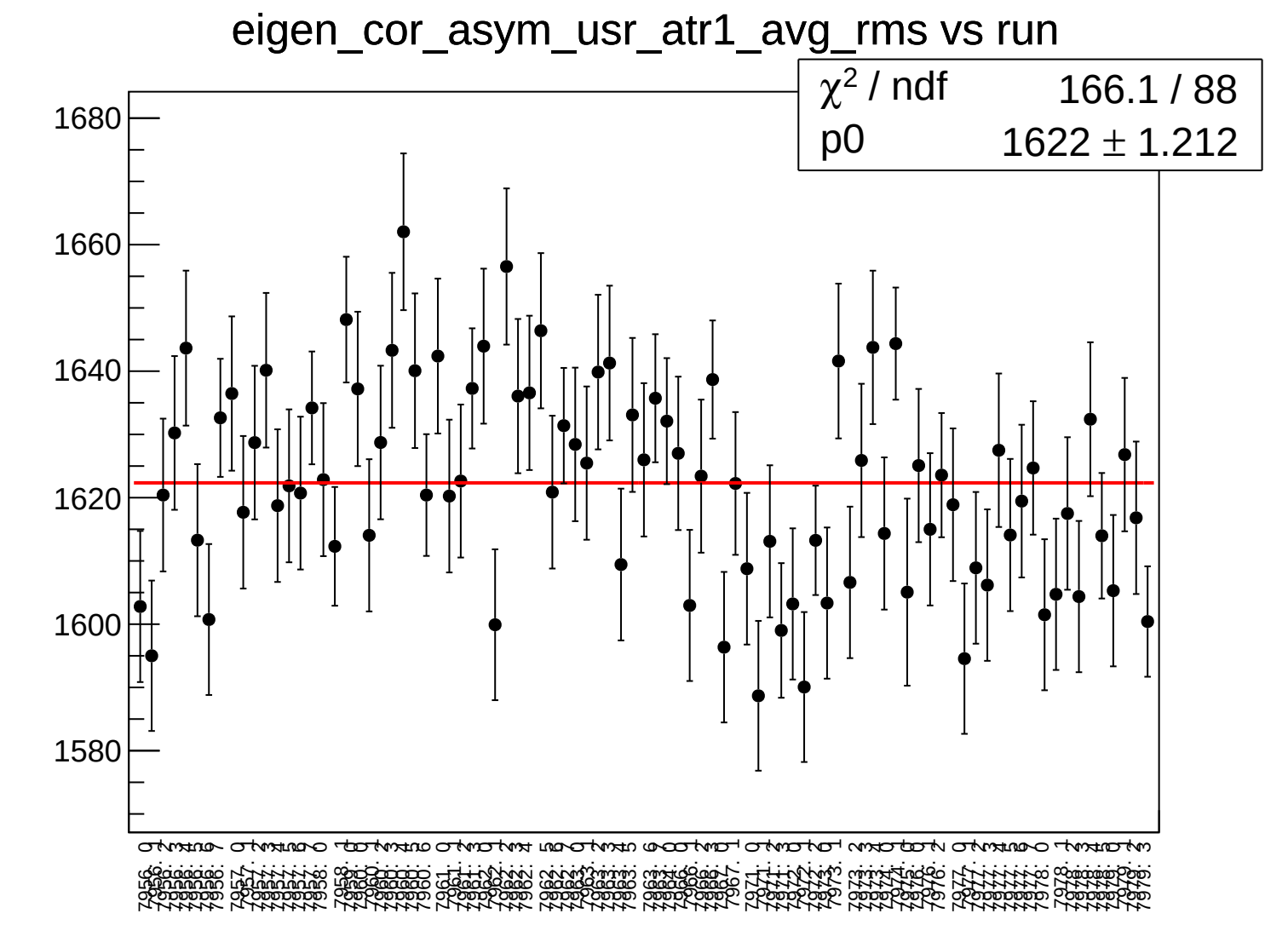

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 85.27 / 88
p0 1268 ± 2024
pull
Entries 89
Mean −198.2
Std Dev 0

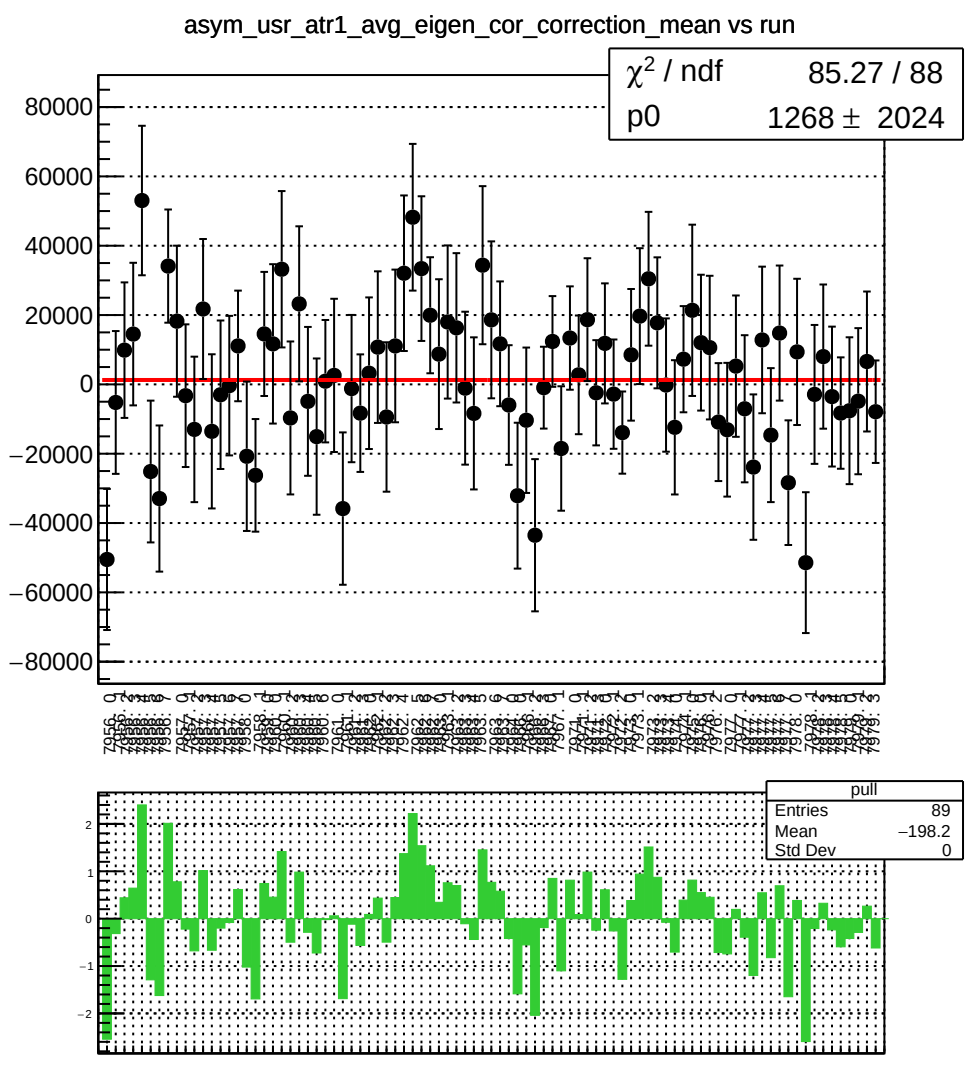

pull1D
Entries 89
Mean 0.009356
Std Dev 0.9788

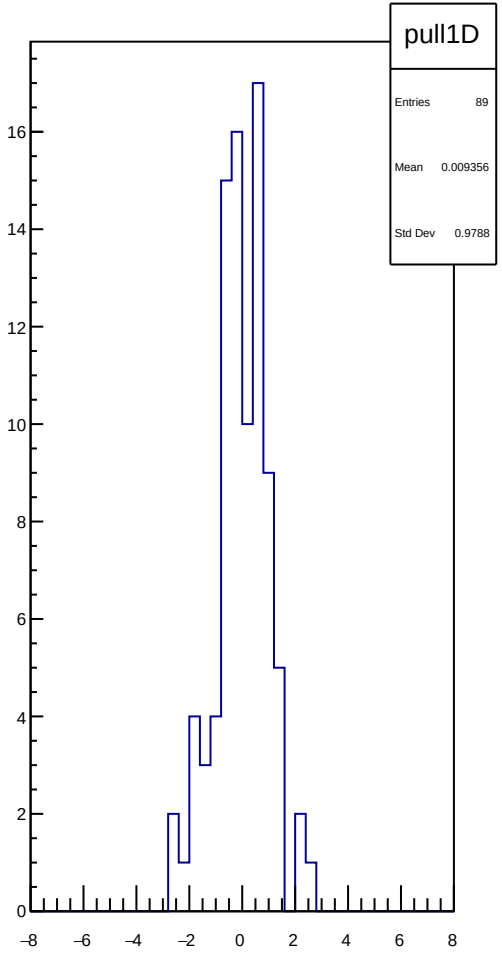

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 2.164e+04 / 88
p0 1903 ± 1.431
2200
2000
1800
1600
1400
1200

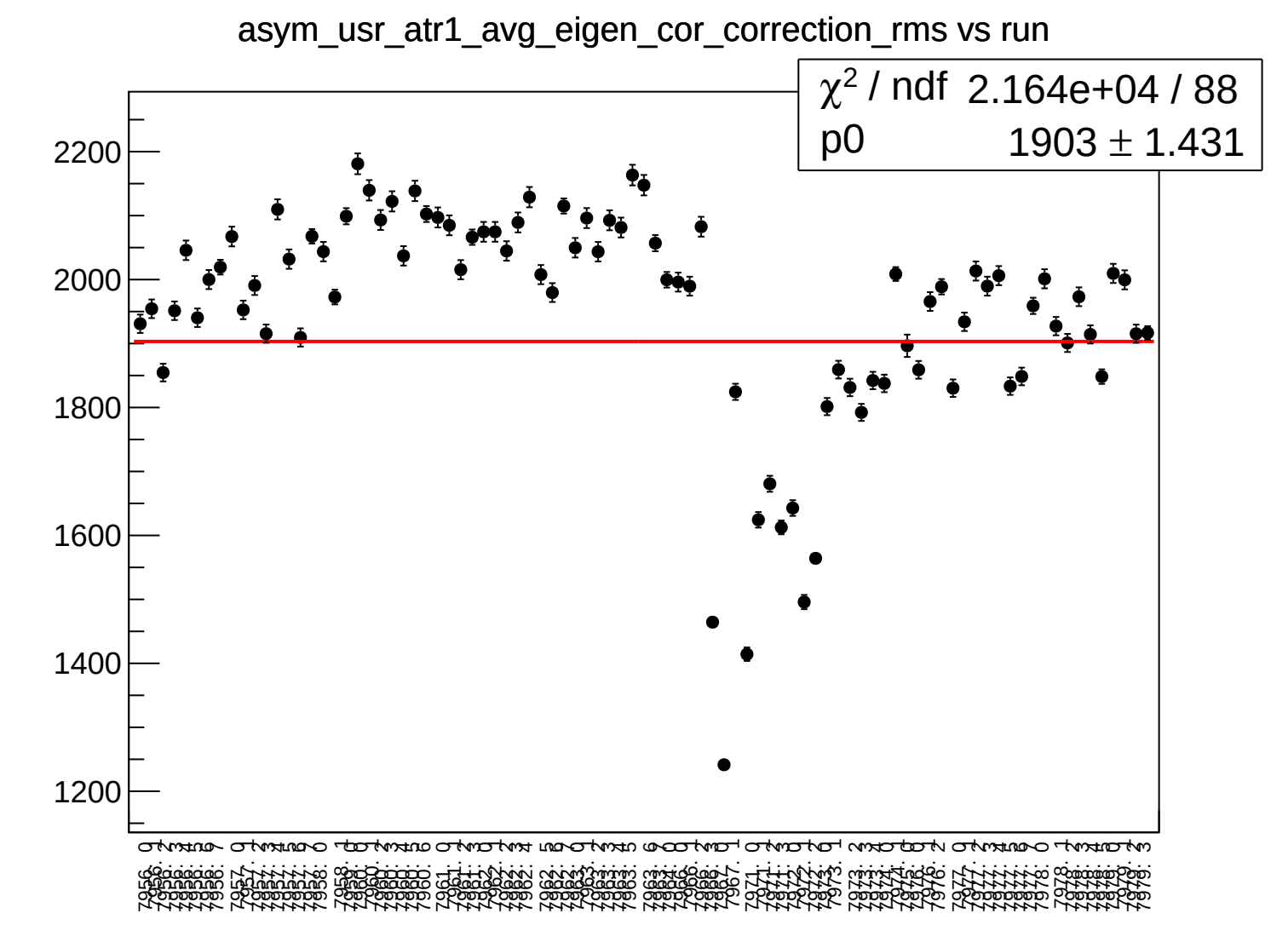

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 85.6 / 88
p0 −2610 ± 1715
pull
Entries 89
Mean 273.3
Std Dev 0

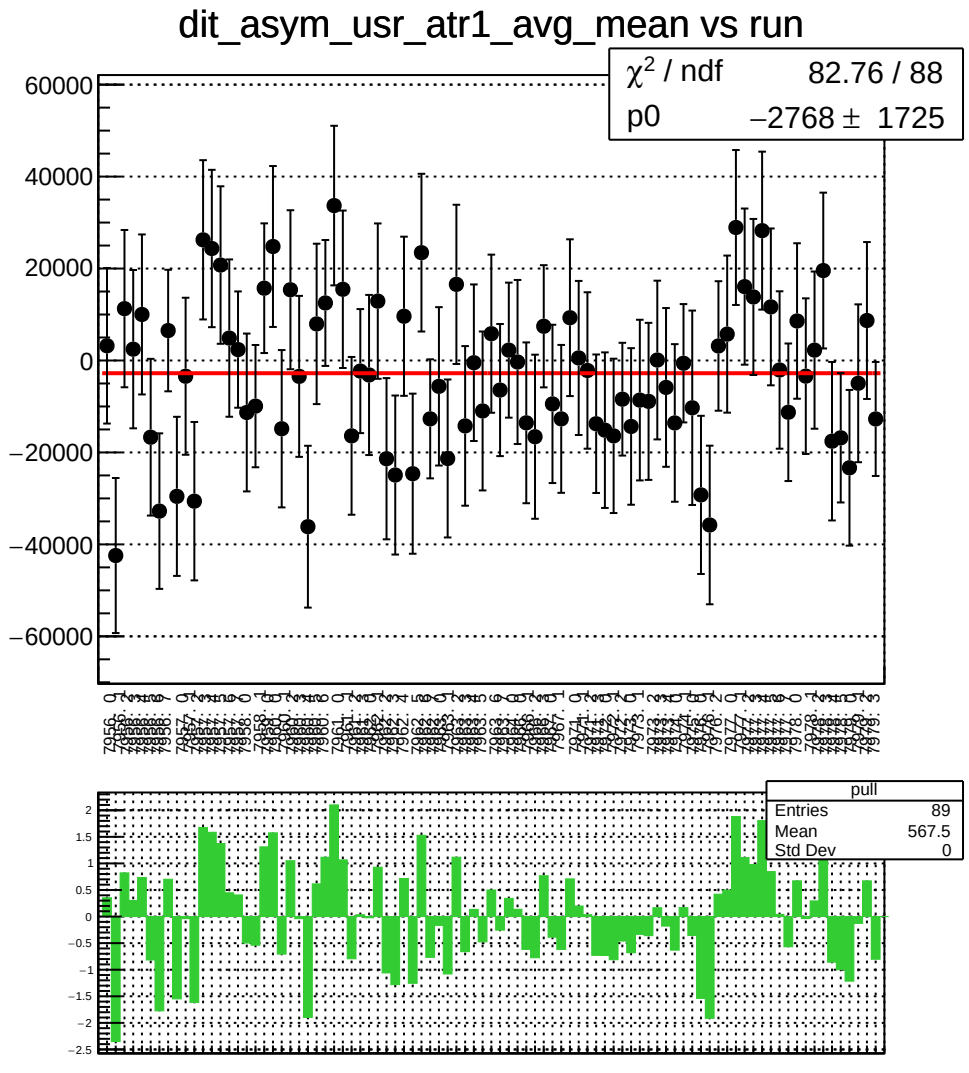

pull1D
Entries 89
Mean −0.002528
Std Dev 0.9807

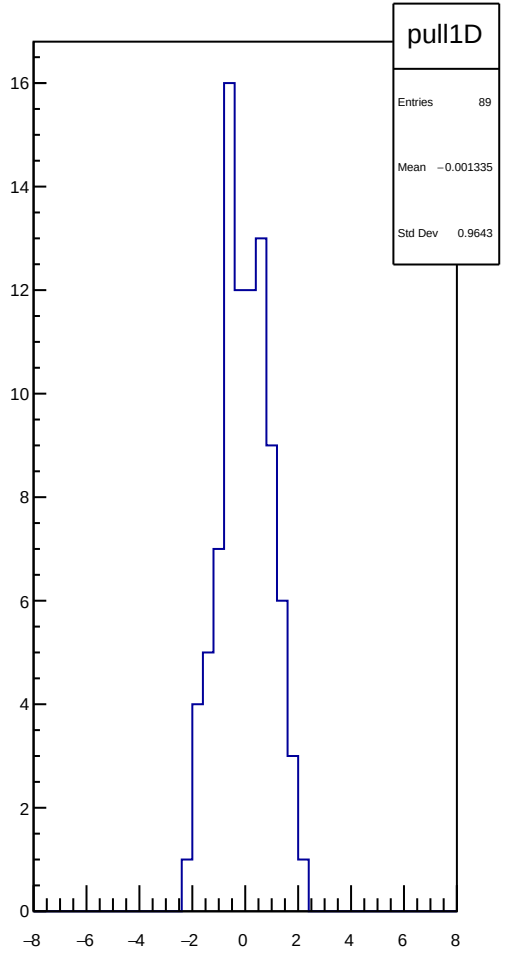

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 166.1 / 88
p0 1622 ± 1.212
1680
1660
1640
1620
1600
1580

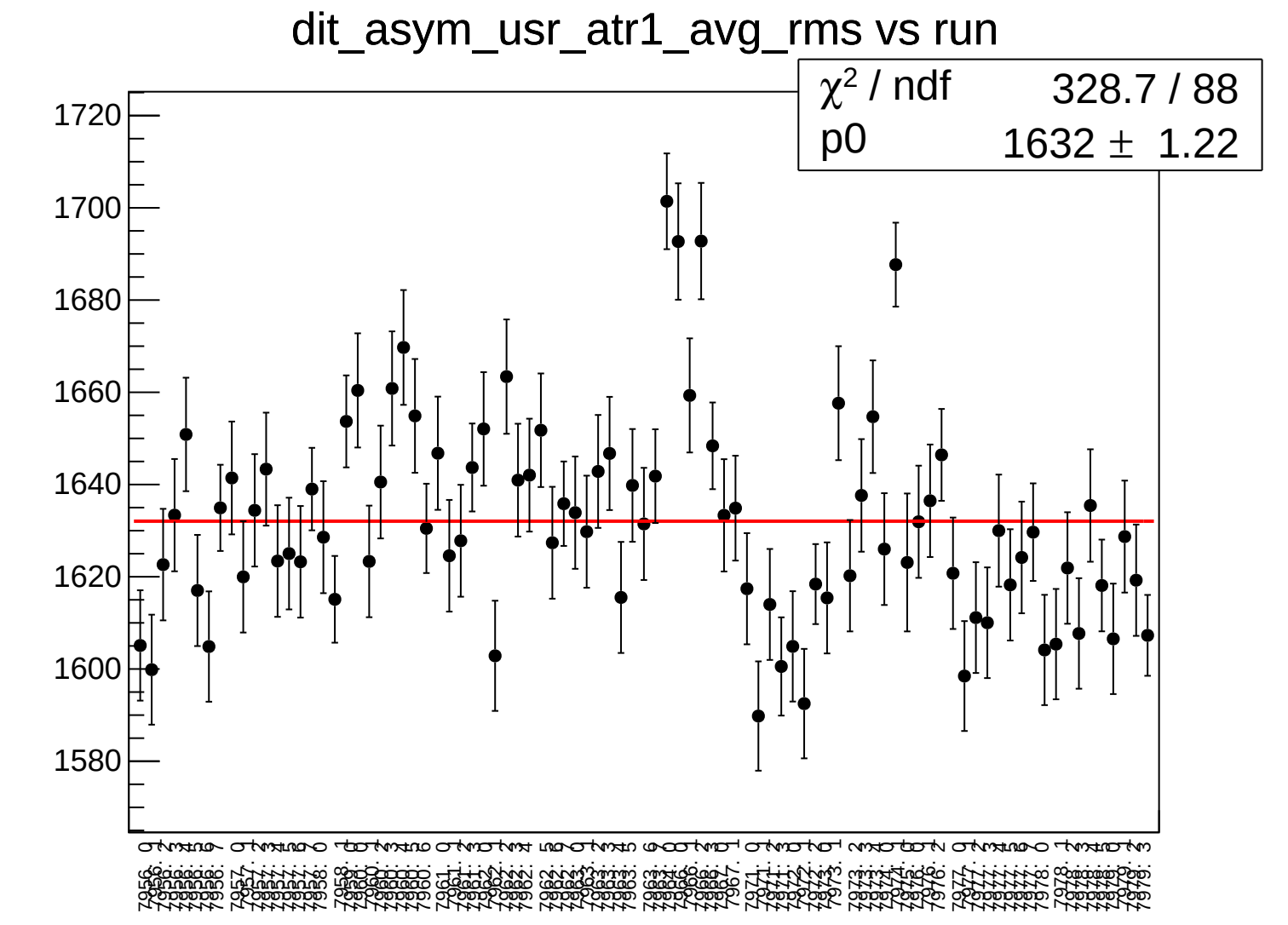

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.27 / 88
p0 1268 ± 2024
pull
Entries 89
Mean −198.2
Std Dev 0

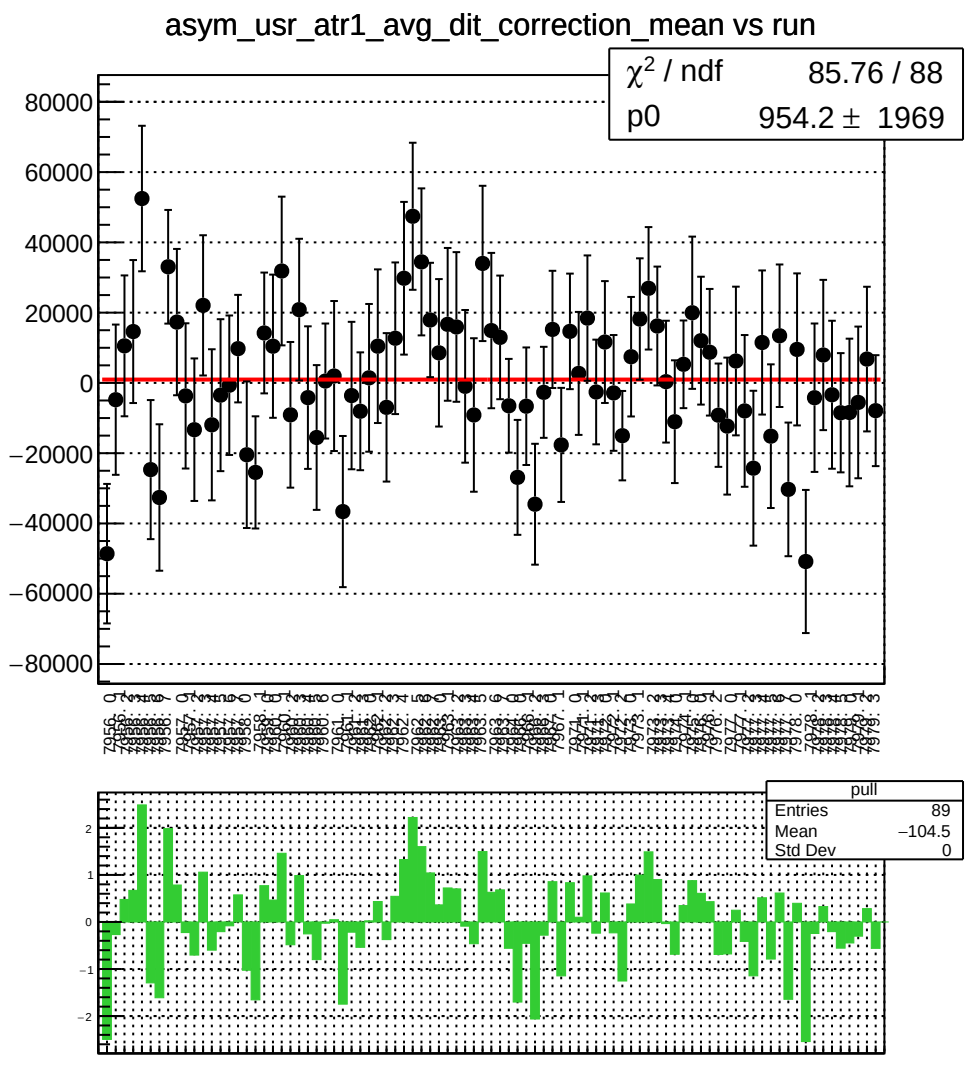

pull1D
Entries 89
Mean 0.009356
Std Dev 0.9788

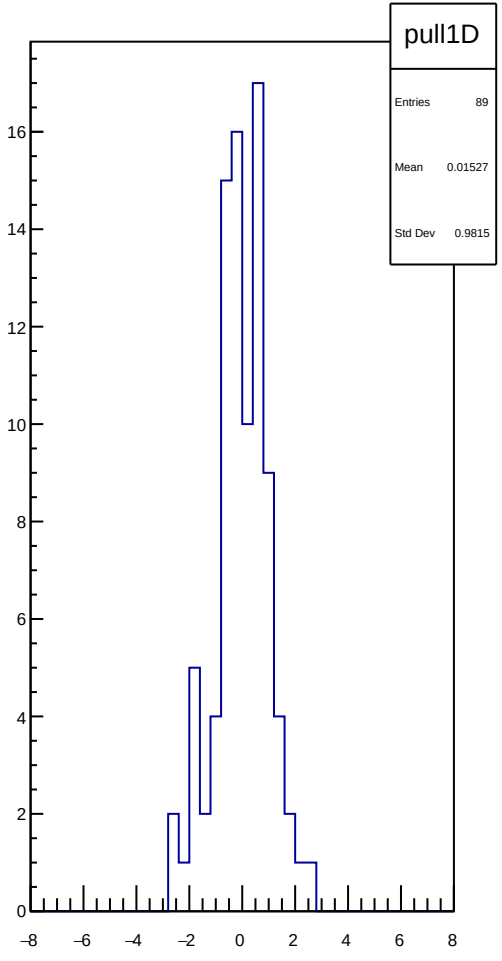

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.164e+04 / 88
p0 1903 ± 1.431
2200
2000
1800
1600
1400
1200

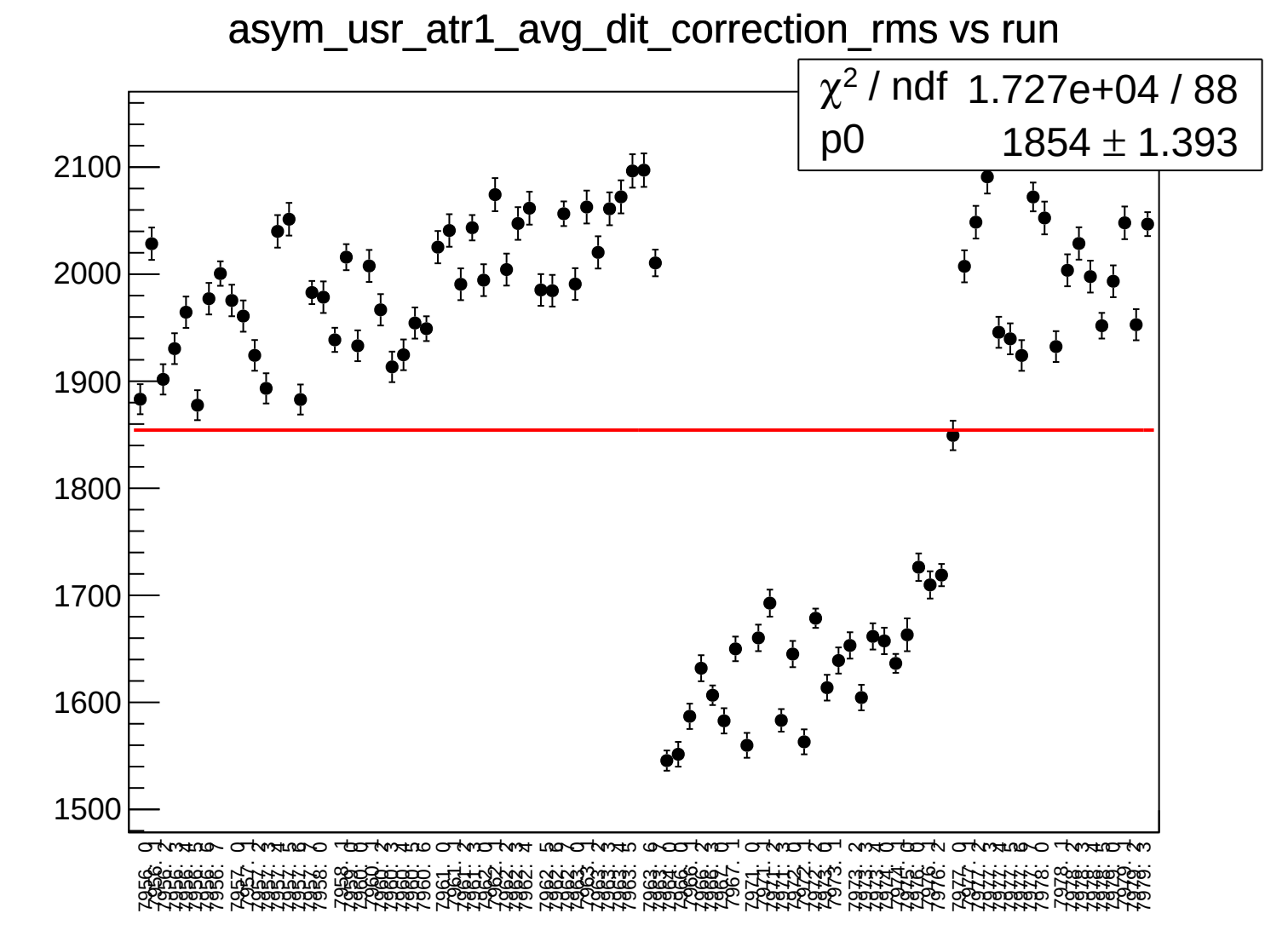

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 82.76 / 88
p0 −2768 ± 1725
pull
Entries 89
Mean 567.5
Std Dev 0

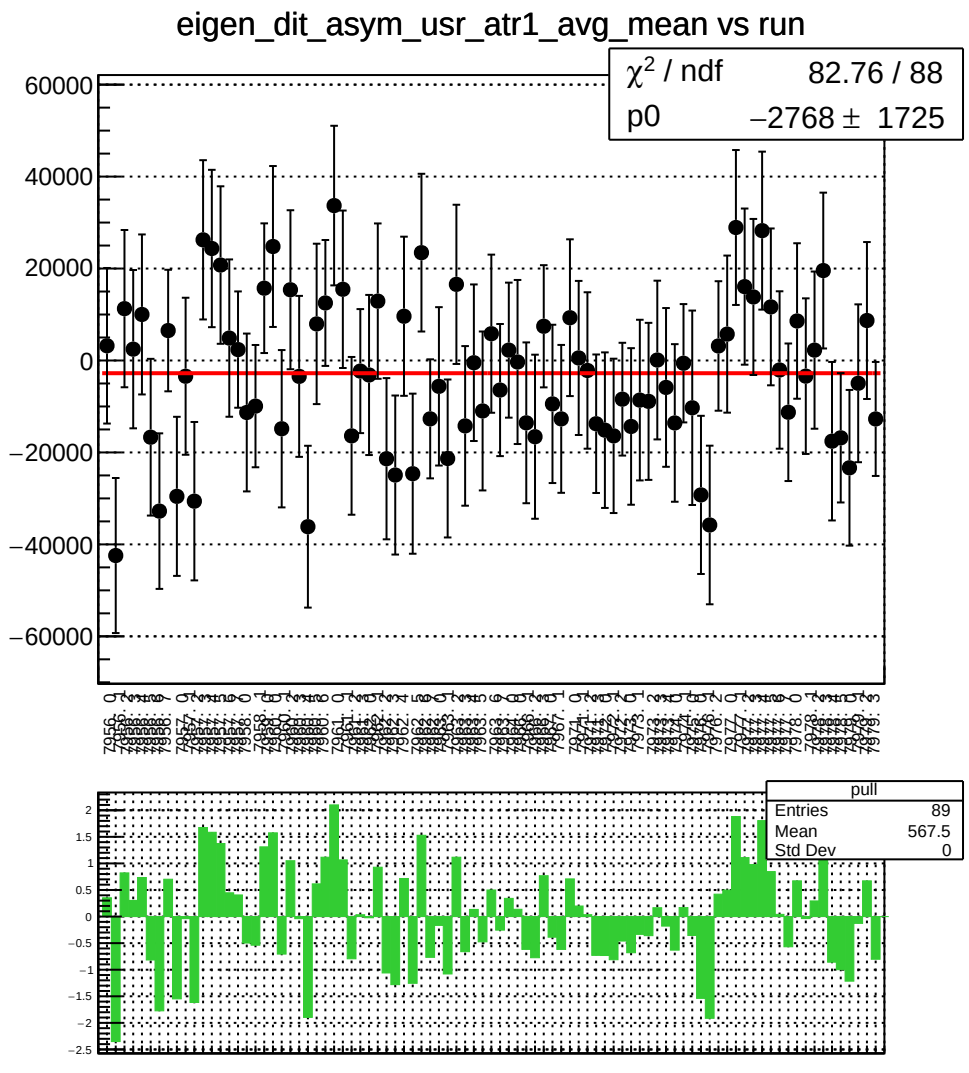

pull1D
Entries 89
Mean −0.001335
Std Dev 0.9643

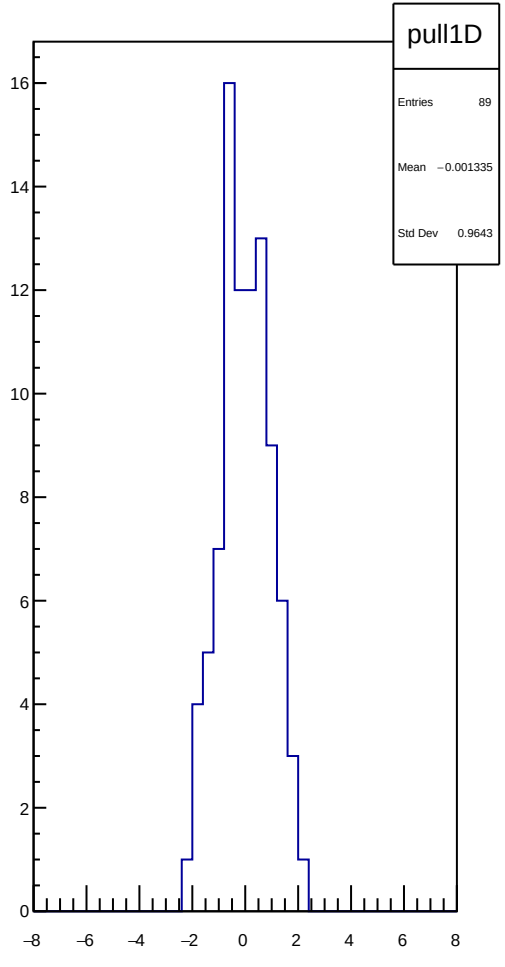

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 328.7 / 88
p0 1632 ± 1.22
1720
1700
1680
1660
1640
1620
1600
1580

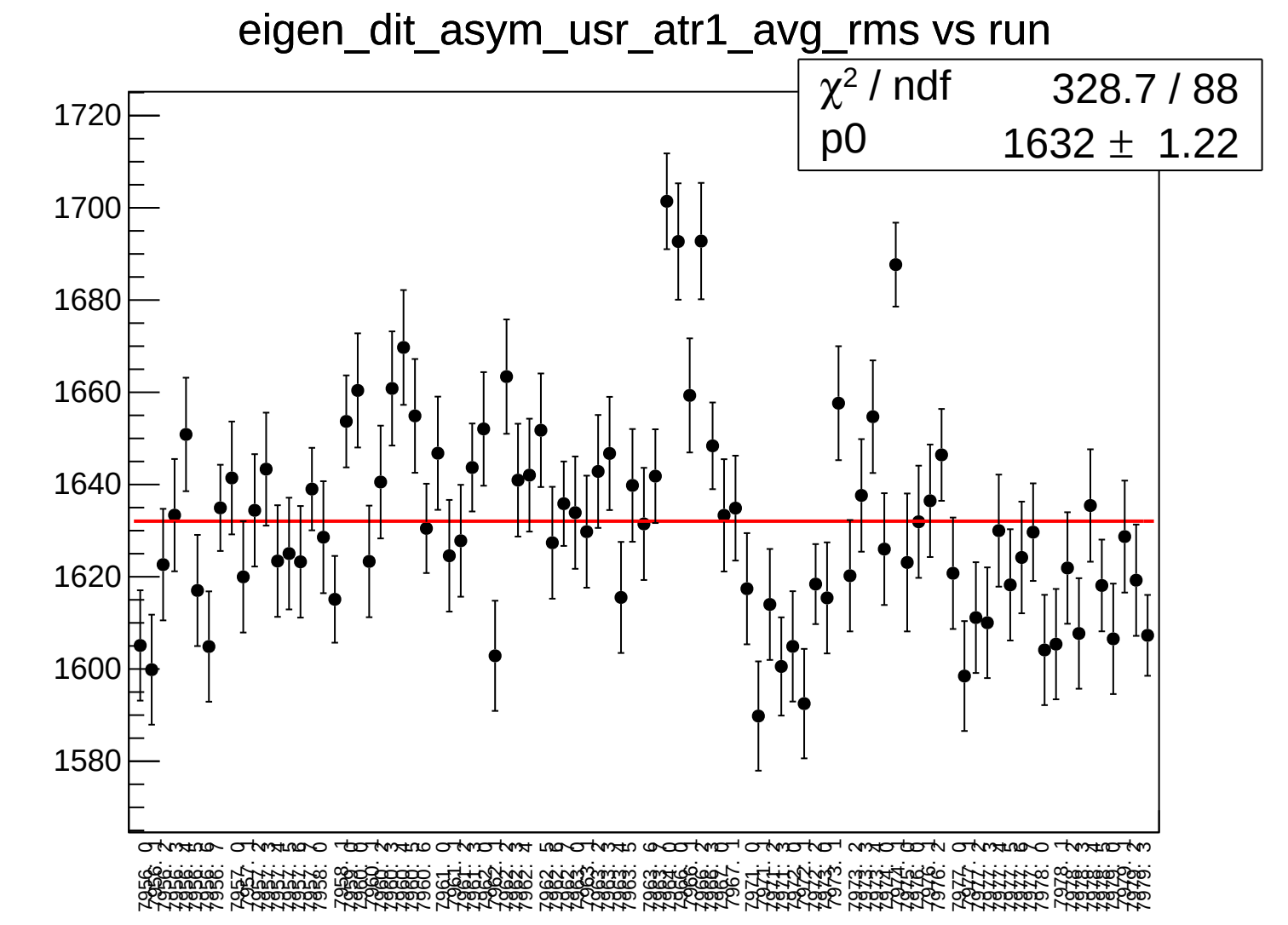

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 85.76 / 88
p0 954.2 ± 1969
pull
Entries 89
Mean −104.5
Std Dev 0

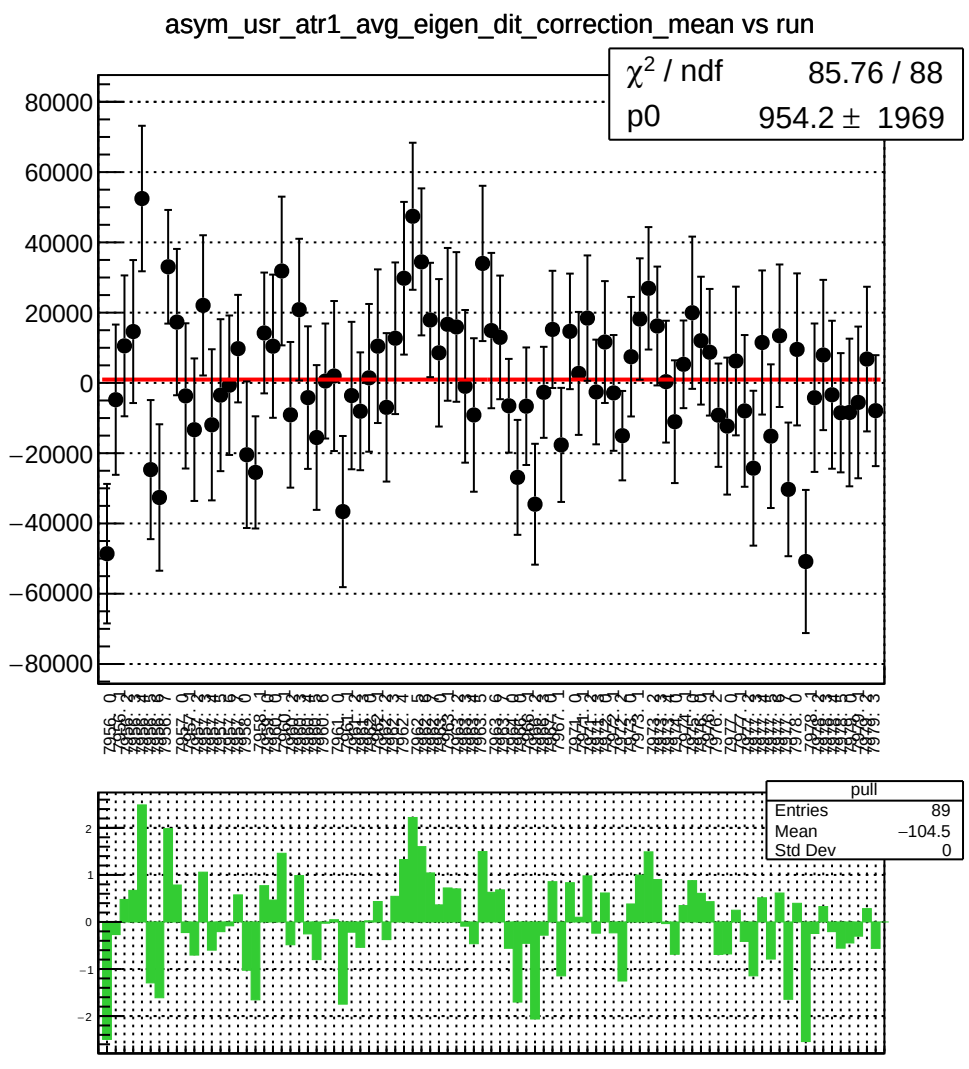

pull1D
Entries 89
Mean 0.01527
Std Dev 0.9815

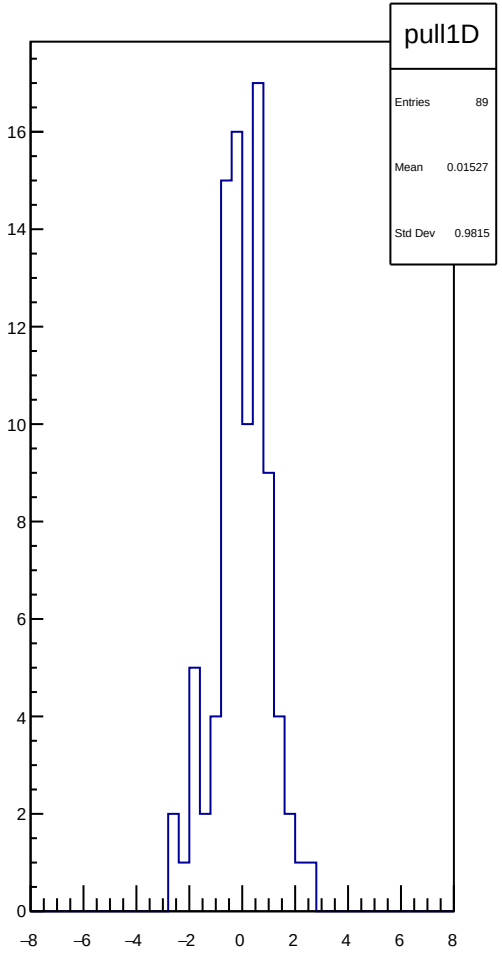

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1.727e+04 / 88
p0 1854 ± 1.393
2100
2000
1900
1800
1700
1600
1500

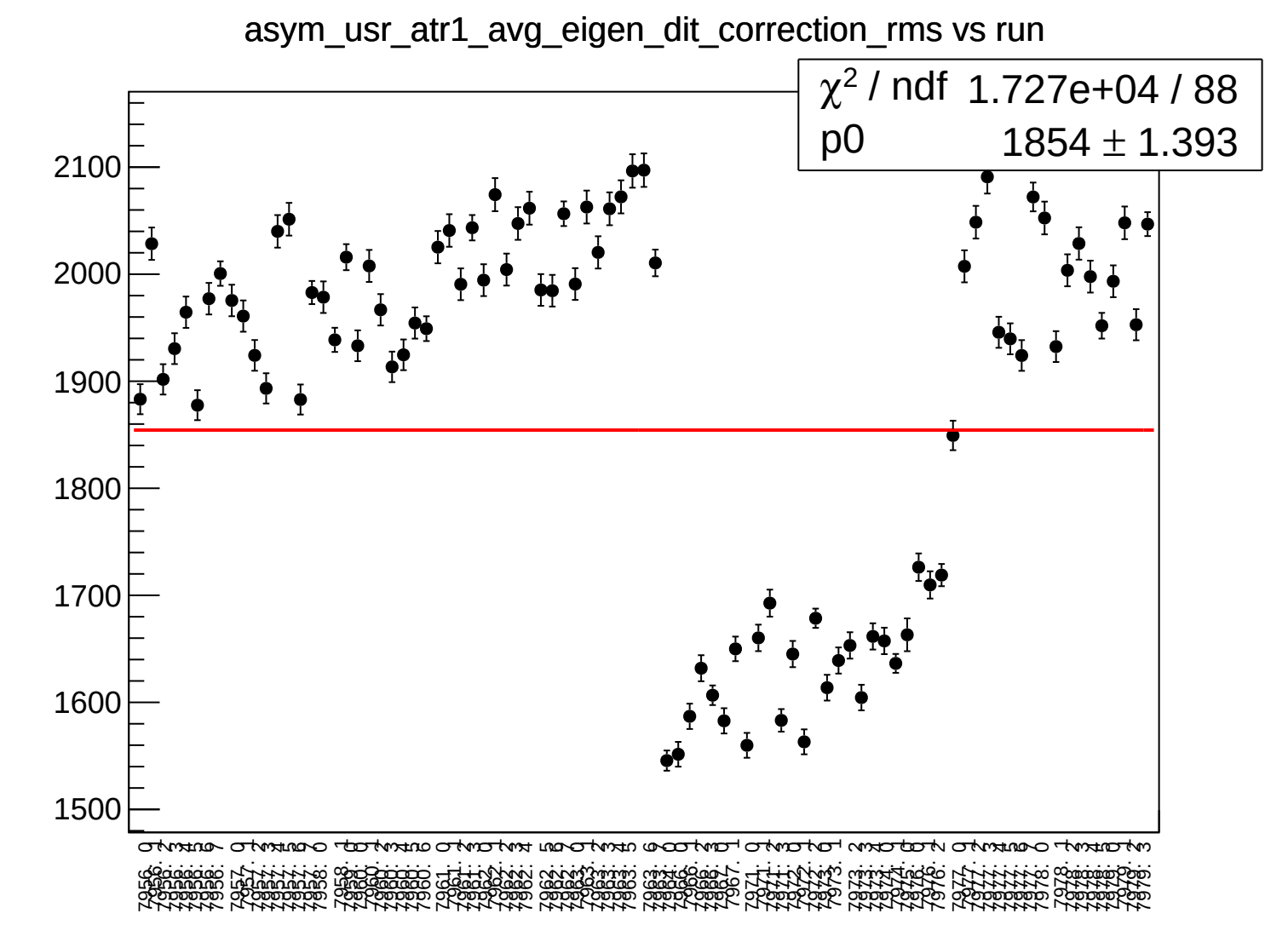

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 82.76 / 88
p0 −2768 ± 1725
pull
Entries 89
Mean 567.5
Std Dev 0

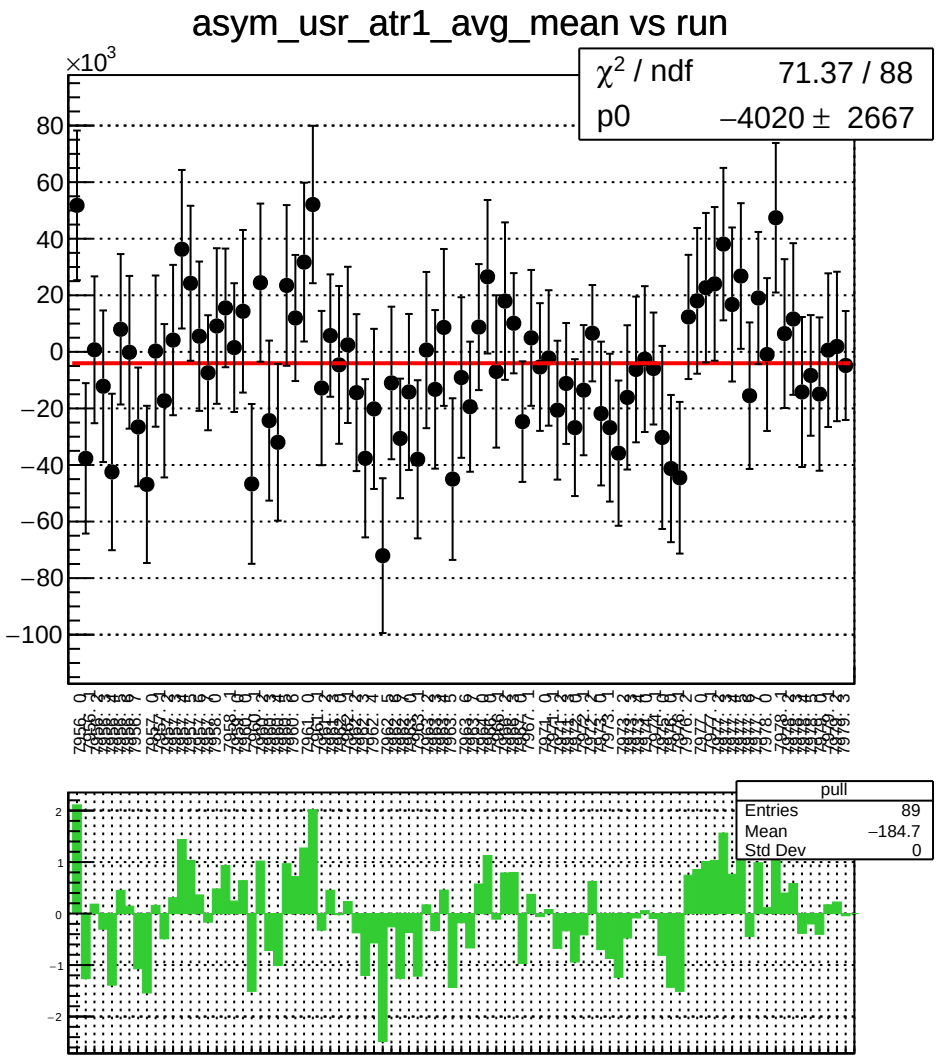

pull1D
Entries 89
Mean −0.001335
Std Dev 0.9643

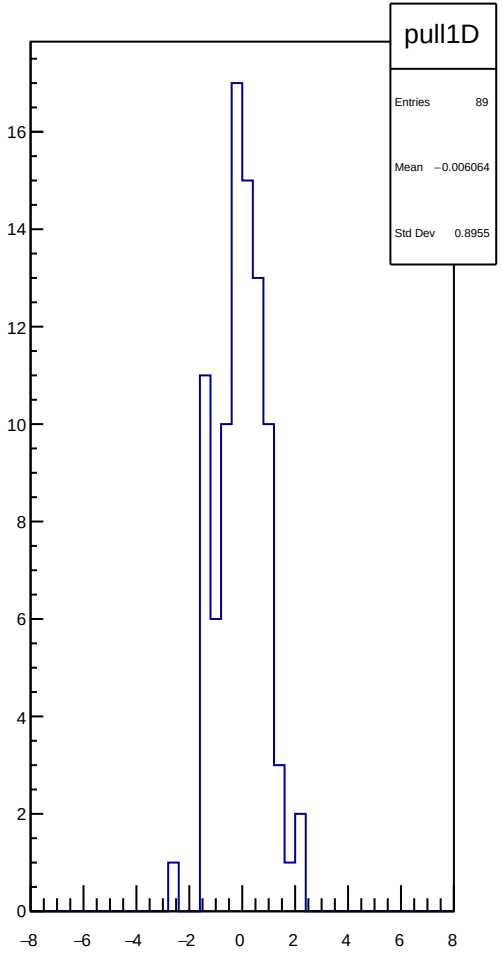

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 328.7 / 88
p0 1632 ± 1.22
1720
1700
1680
1660
1640
1620
1600
1580

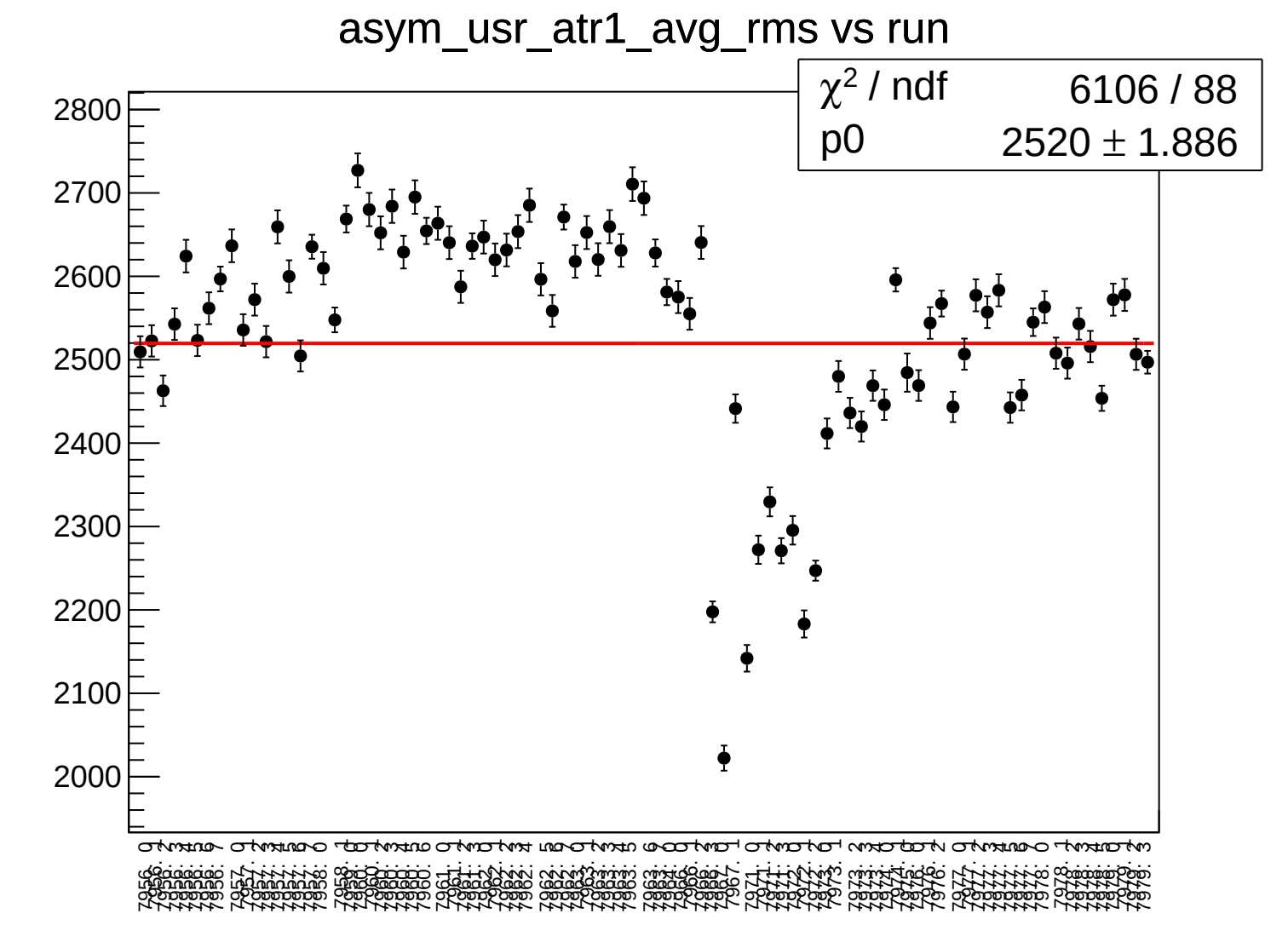

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.76 / 88
p0 954.2 ± 1969
pull
Entries 89
Mean −104.5
Std Dev 0

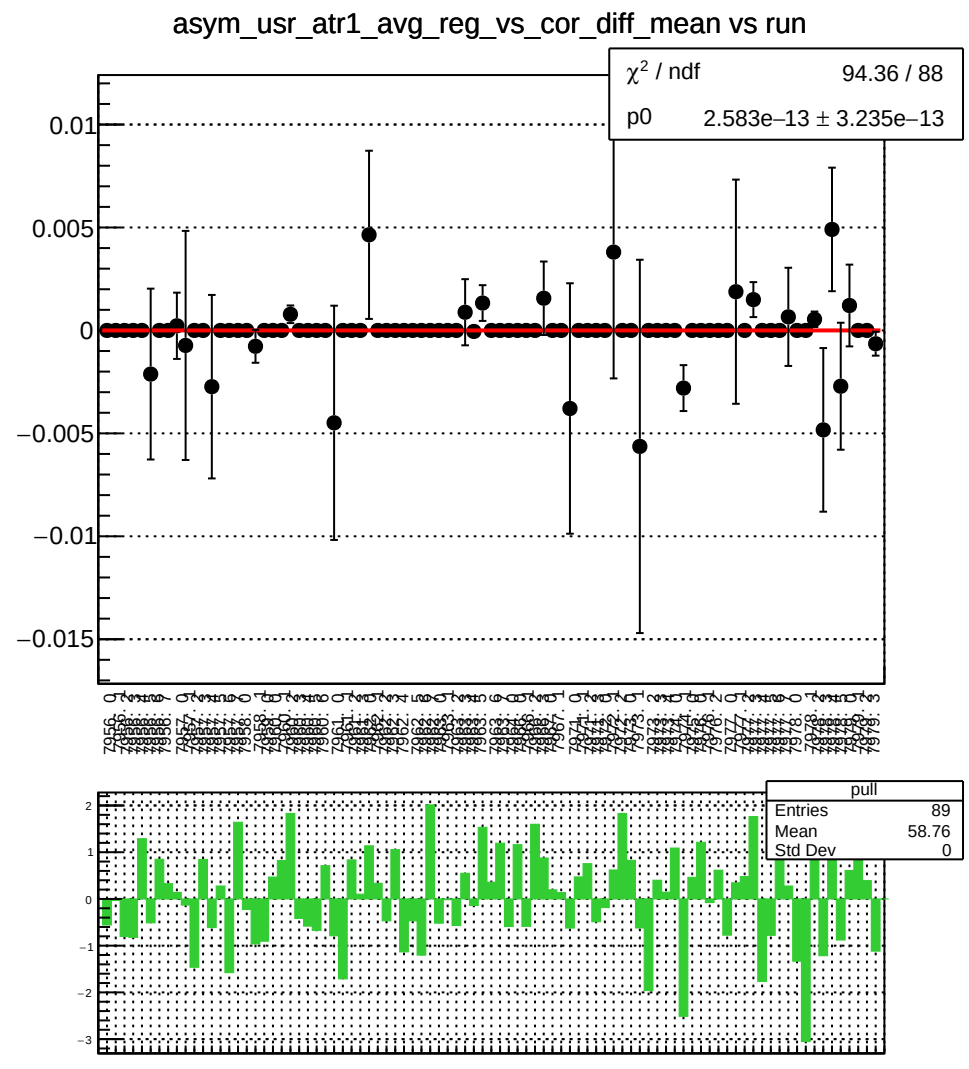

pull1D
Entries 89
Mean 0.01527
Std Dev 0.9815

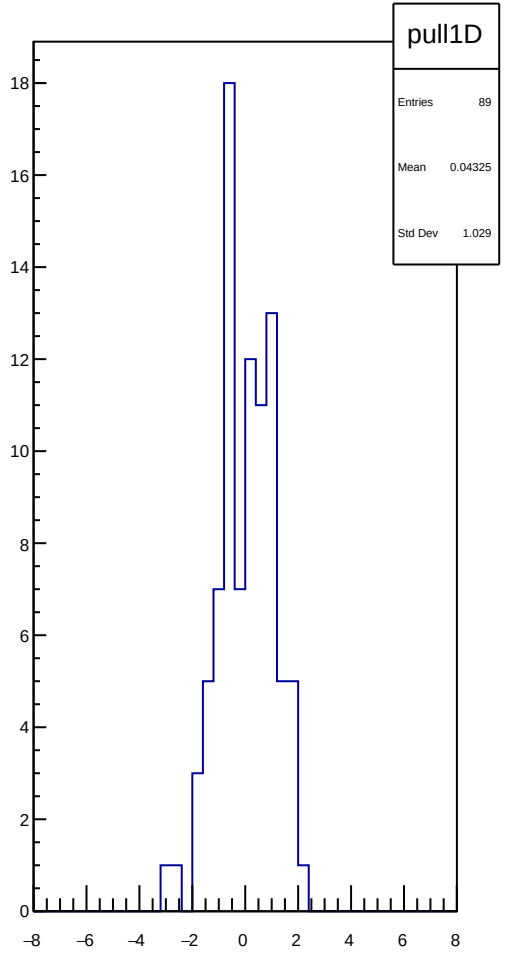

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.727e+04 / 88
p0 1854 ± 1.393
2100
2000
1900
1800
1700
1600
1500

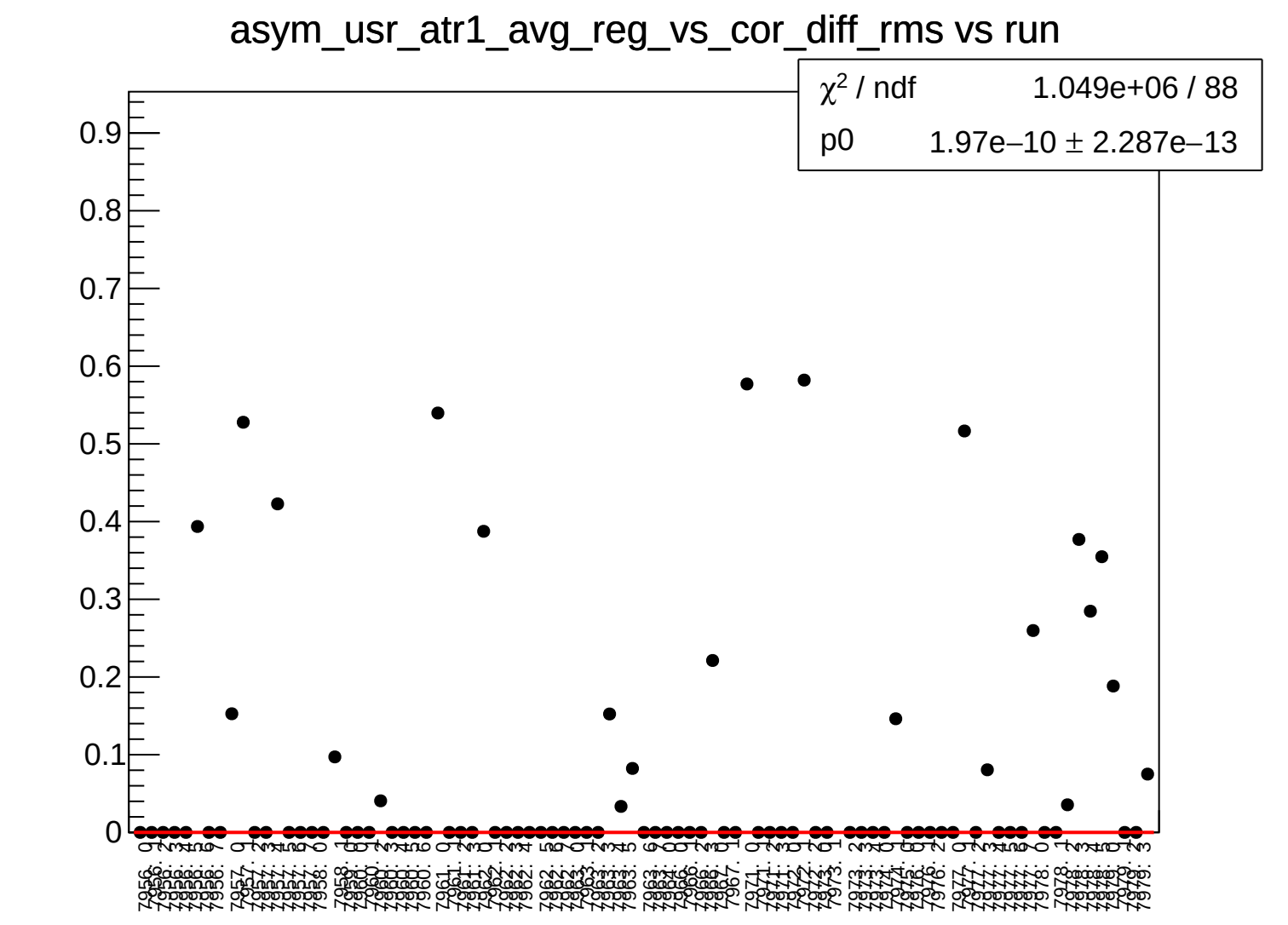

asym_usr_atr1_avg_mean vs run
×10^3
χ^2 / ndf 71.37 / 88
p0 −4020 ± 2667
pull
Entries 89
Mean −184.7
Std Dev 0

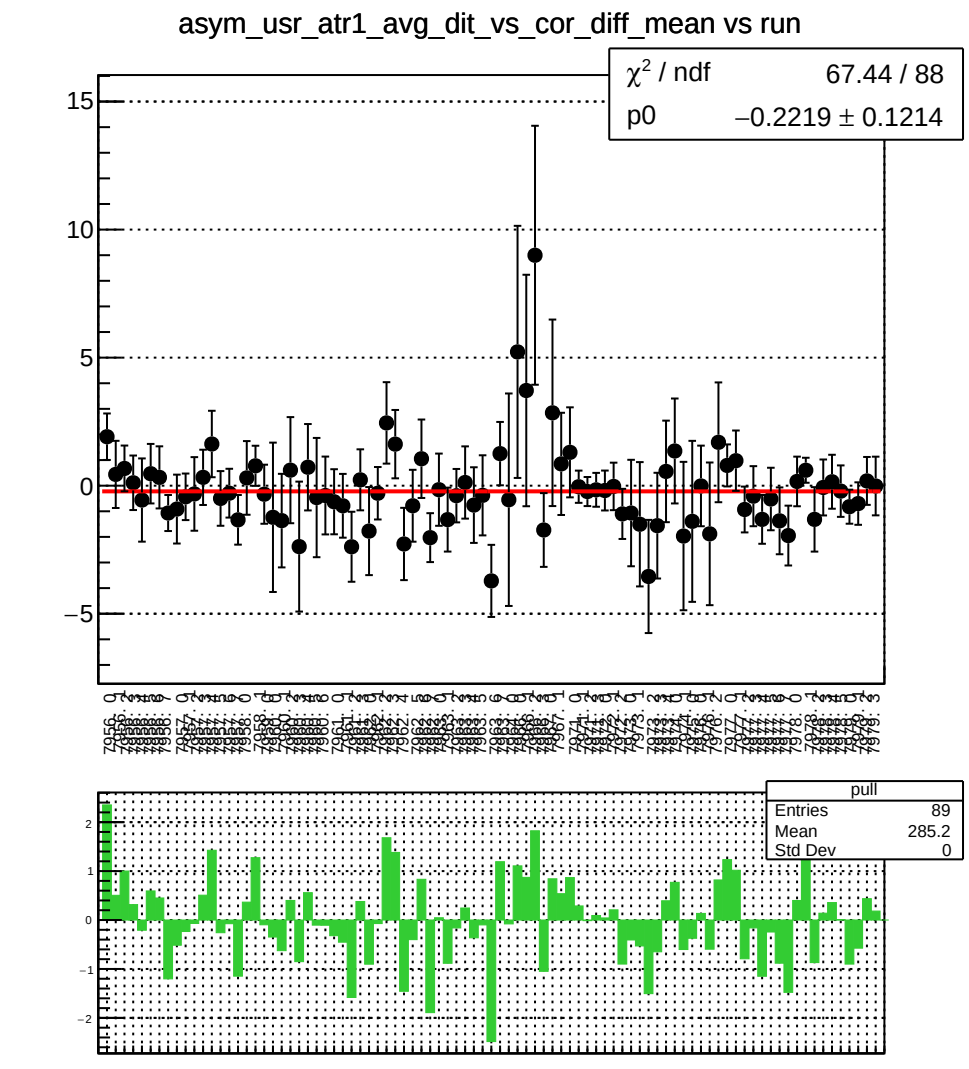

pull1D
Entries 89
Mean −0.006064
Std Dev 0.8955

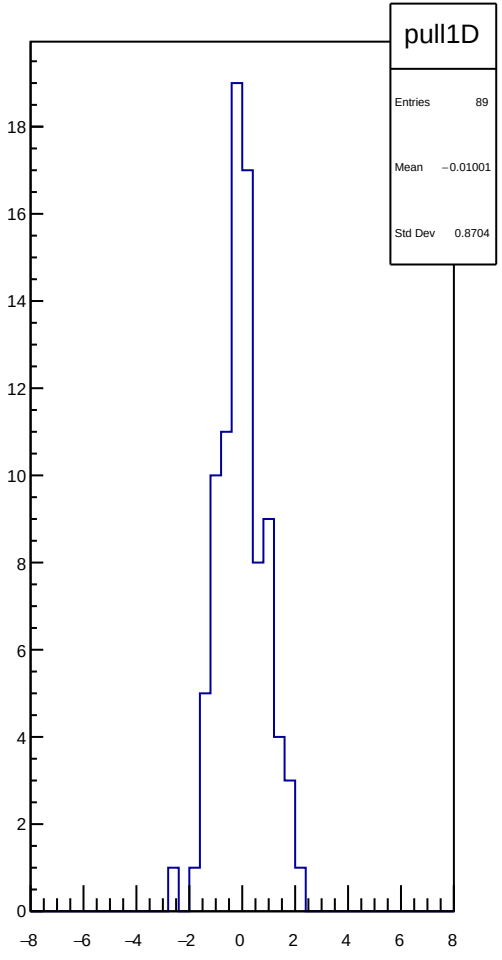

asym_usr_atr1_avg_rms vs run
χ² / ndf 6106 / 88
p0 2520 ± 1.886
2800
2700
2600
2500
2400
2300
2200
2100
2000

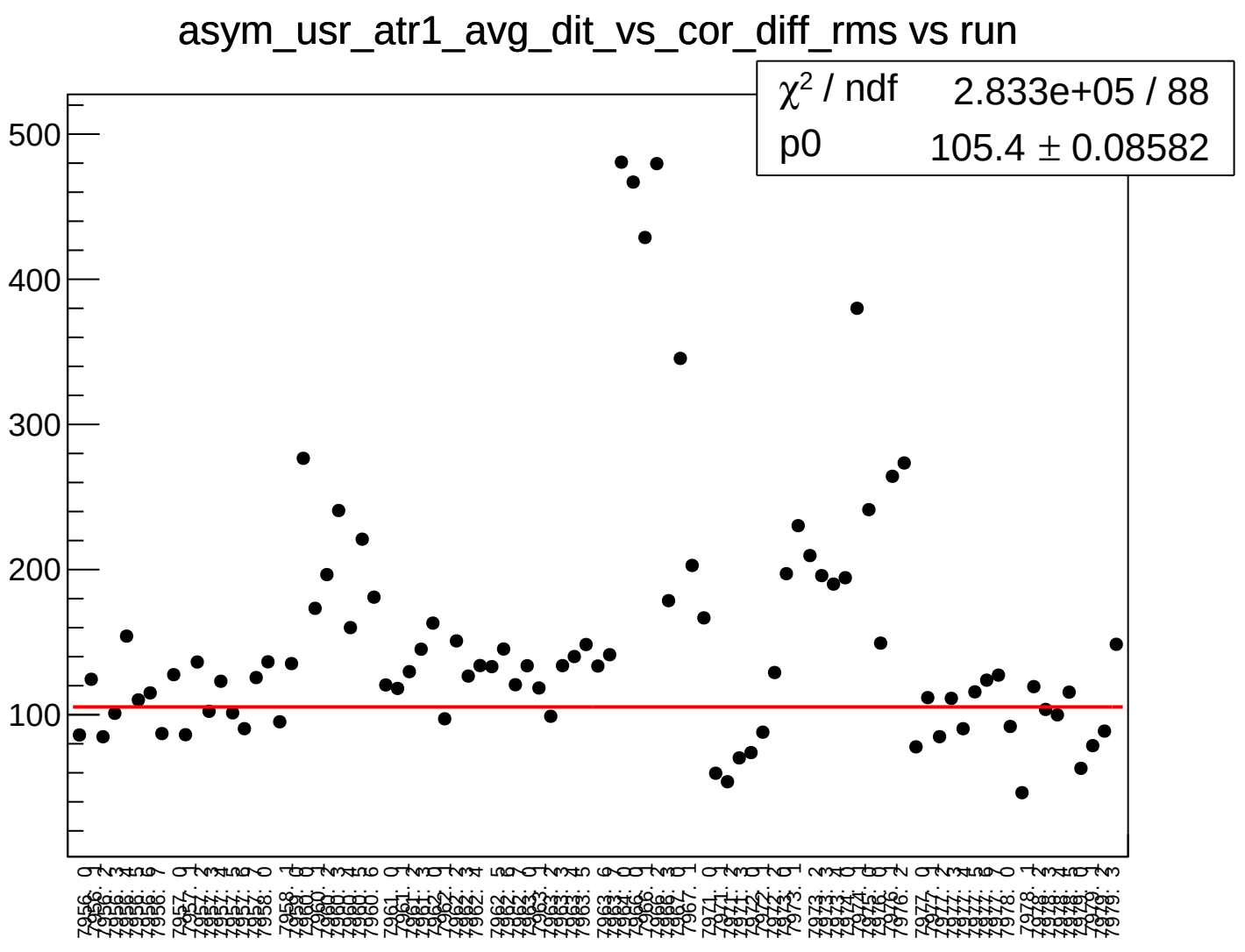

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.36 / 88
p0 2.583e−13 ± 3.235e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 58.76
Std Dev 0
2
1
0
−1
−2
−3

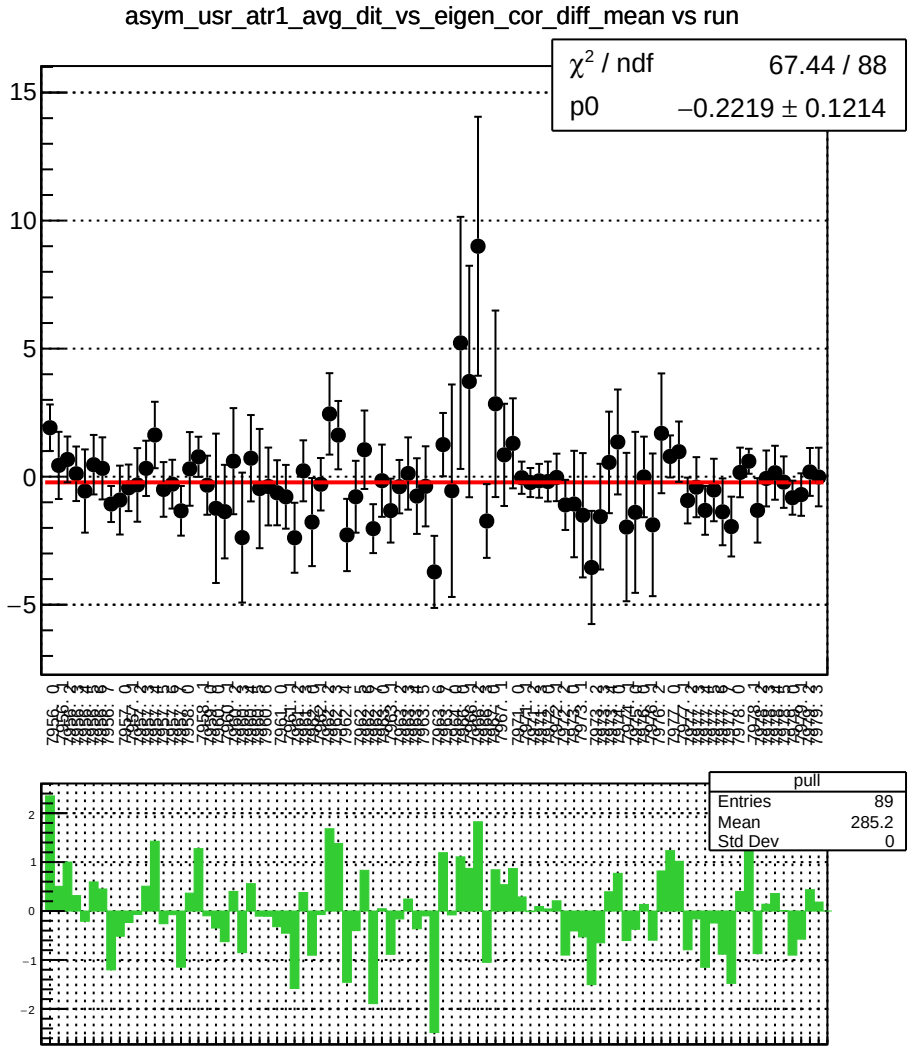

pull1D
Entries 89
Mean 0.04325
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

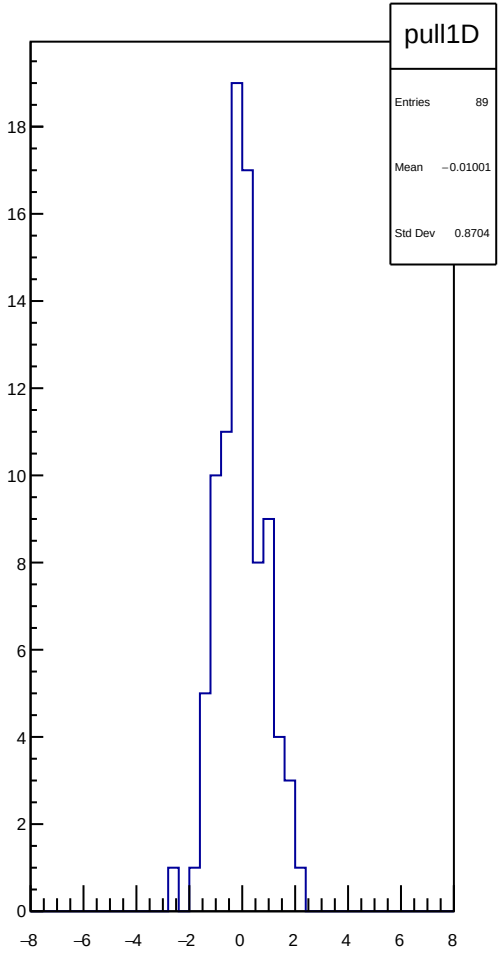

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.049e+06 / 88
p0 1.97e−10 ± 2.287e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

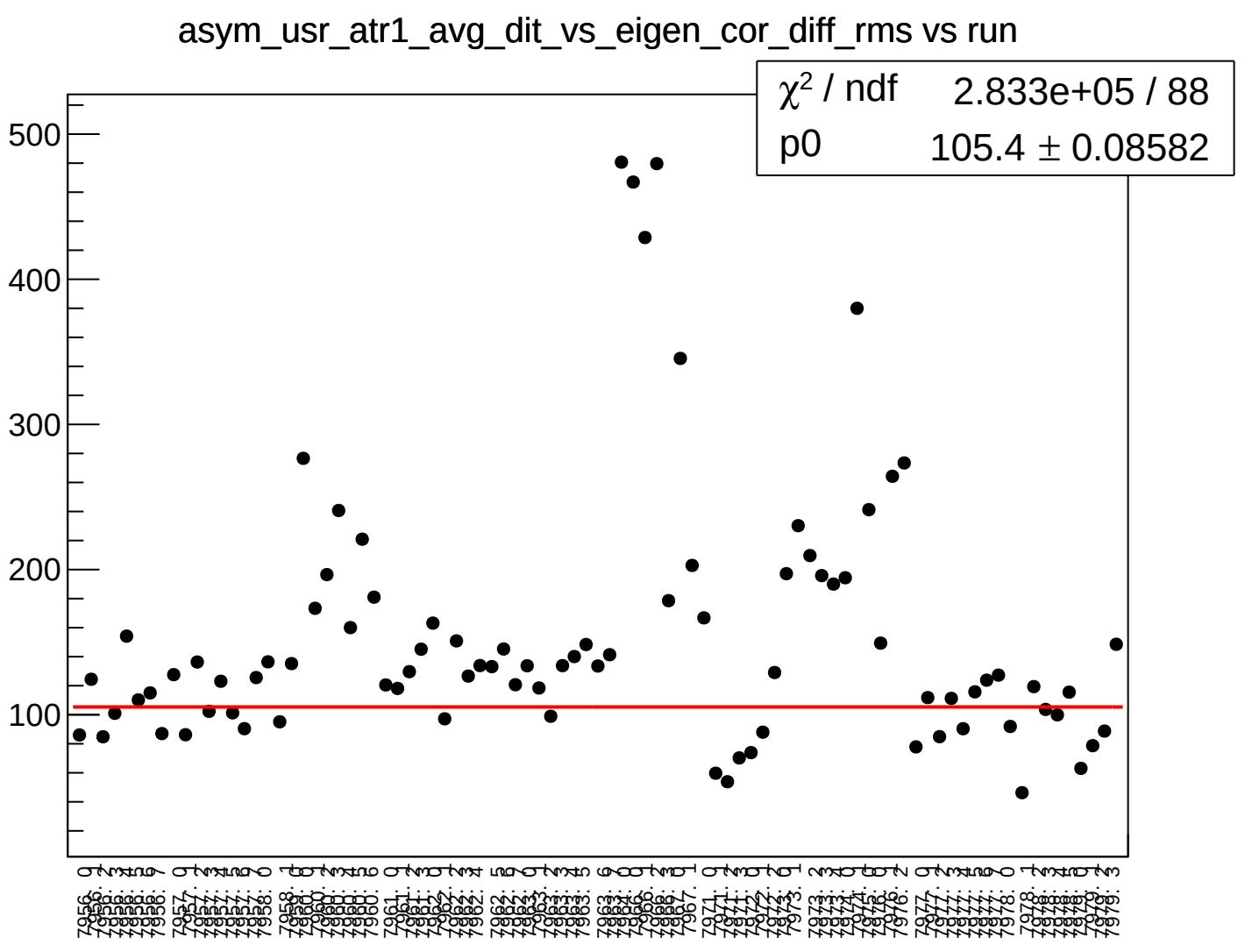

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.44 / 88
p0 −0.2219 ± 0.1214
pull
Entries 89
Mean 285.2
Std Dev 0

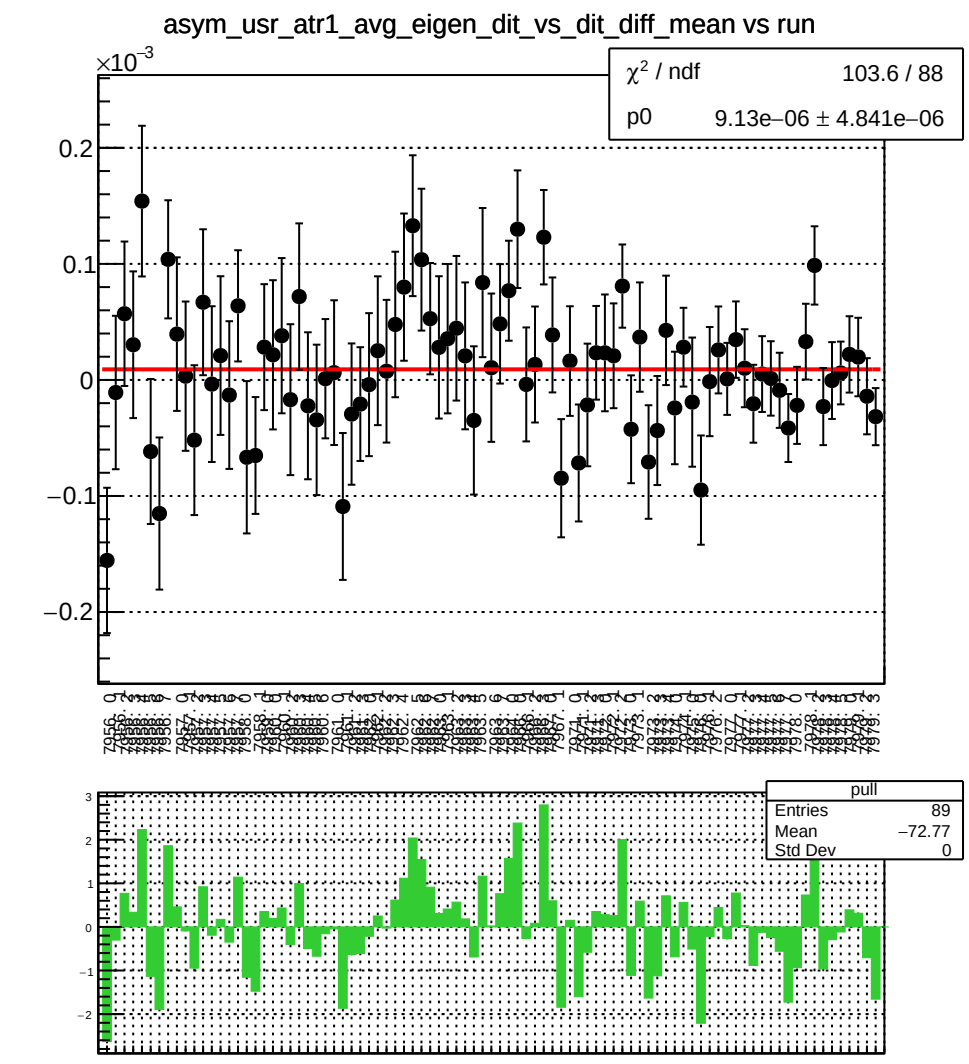

pull1D
Entries 89
Mean −0.01001
Std Dev 0.8704

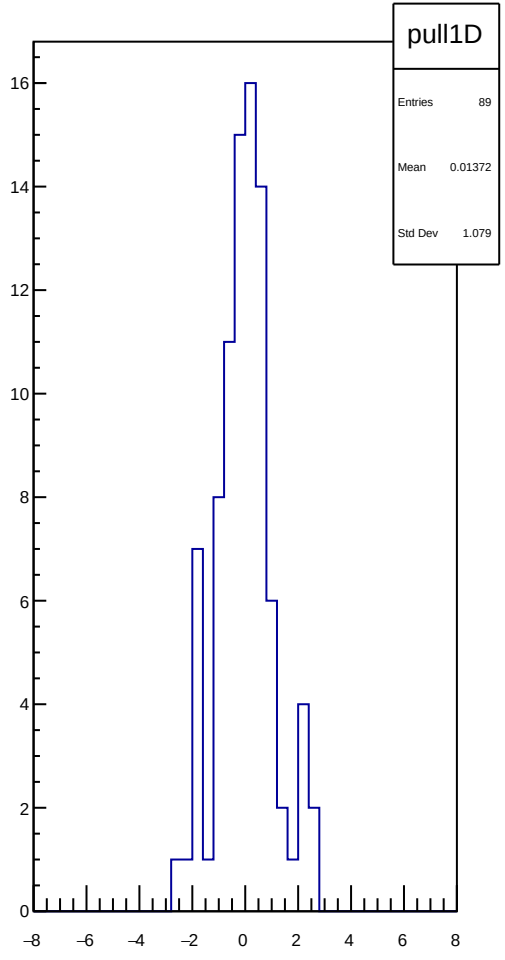

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.833e+05 / 88
p0 105.4 ± 0.08582
500
400
300
200
100

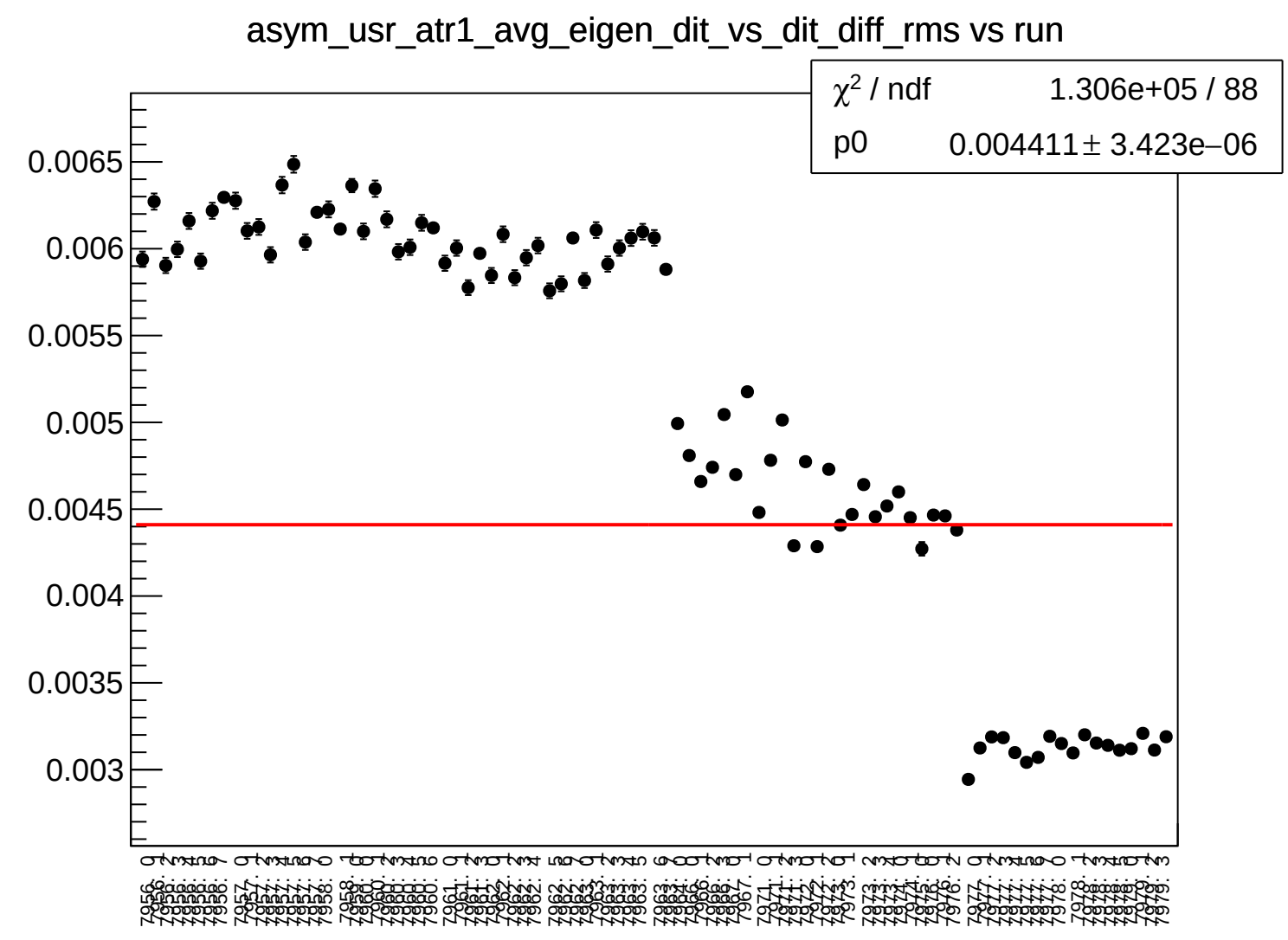

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.44 / 88
p0 −0.2219 ± 0.1214
15
10
5
0
−5
pull
Entries 89
Mean 285.2
Std Dev 0
2
1
0
−1
−2

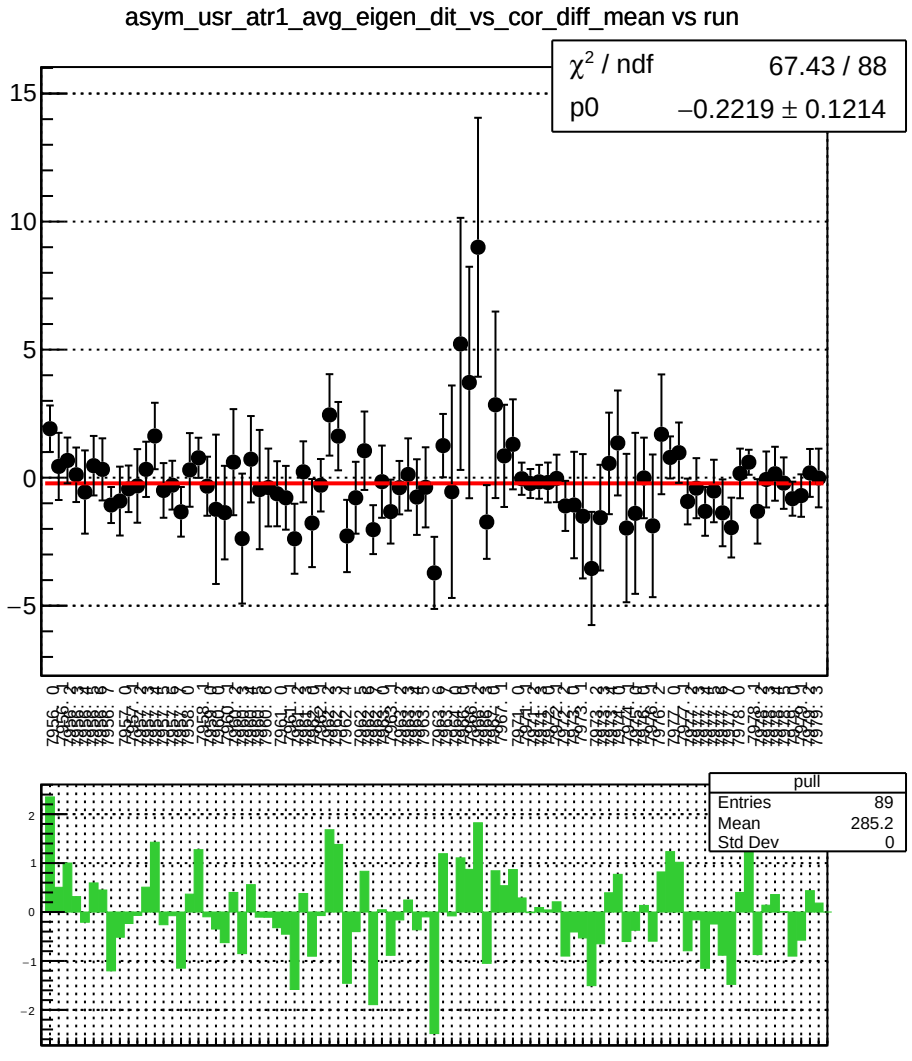

pull1D
Entries 89
Mean −0.01001
Std Dev 0.8704
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

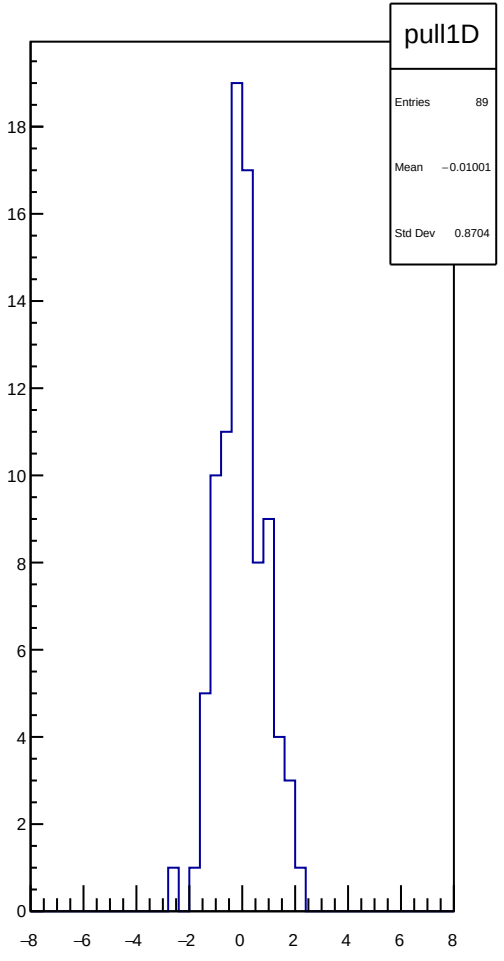

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.833e+05 / 88
p0 105.4 ± 0.08582
500
400
300
200
100

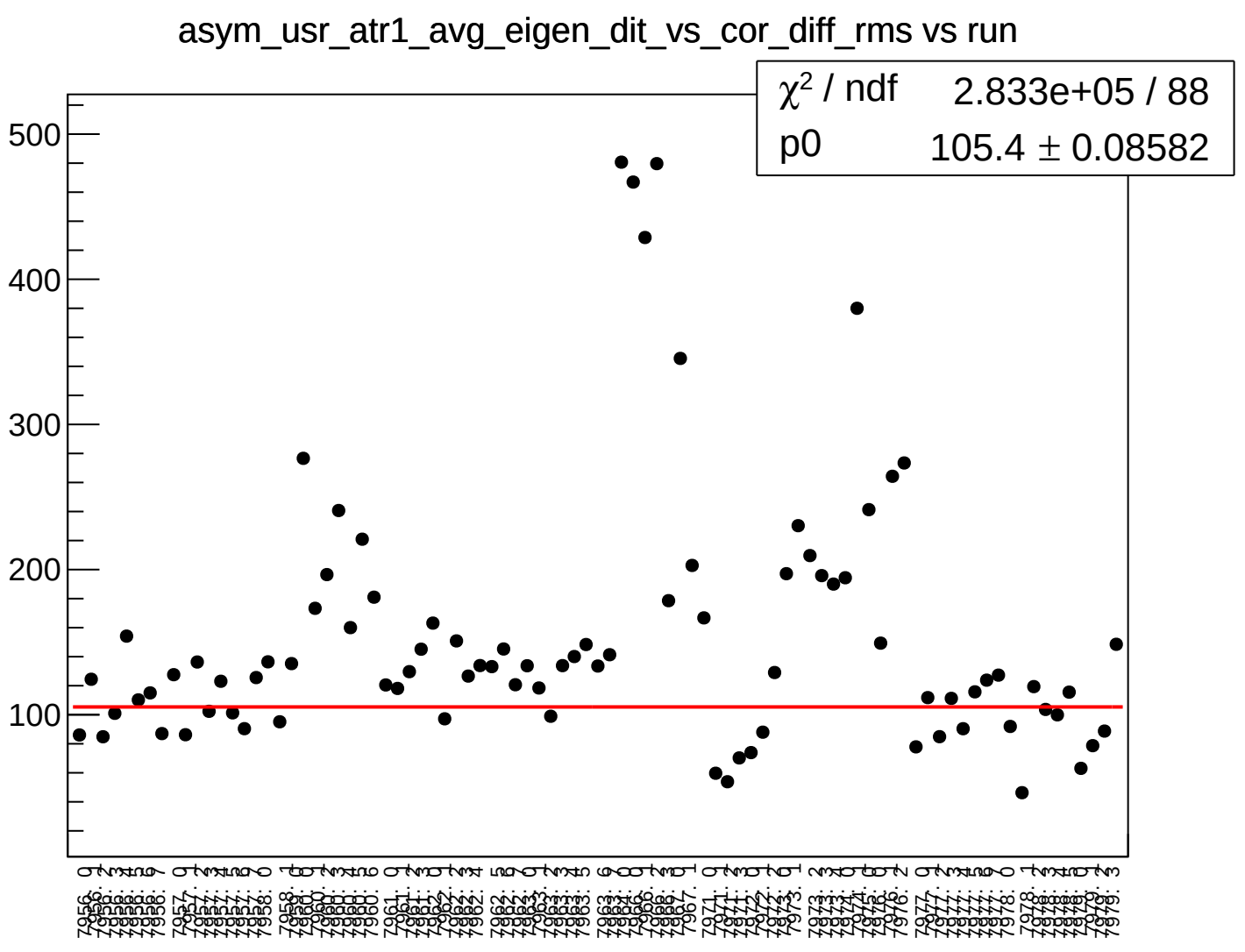

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.6 / 88
p0 9.13e−06 ± 4.841e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean −72.77
Std Dev 0
3
2
1
0
−1
−2

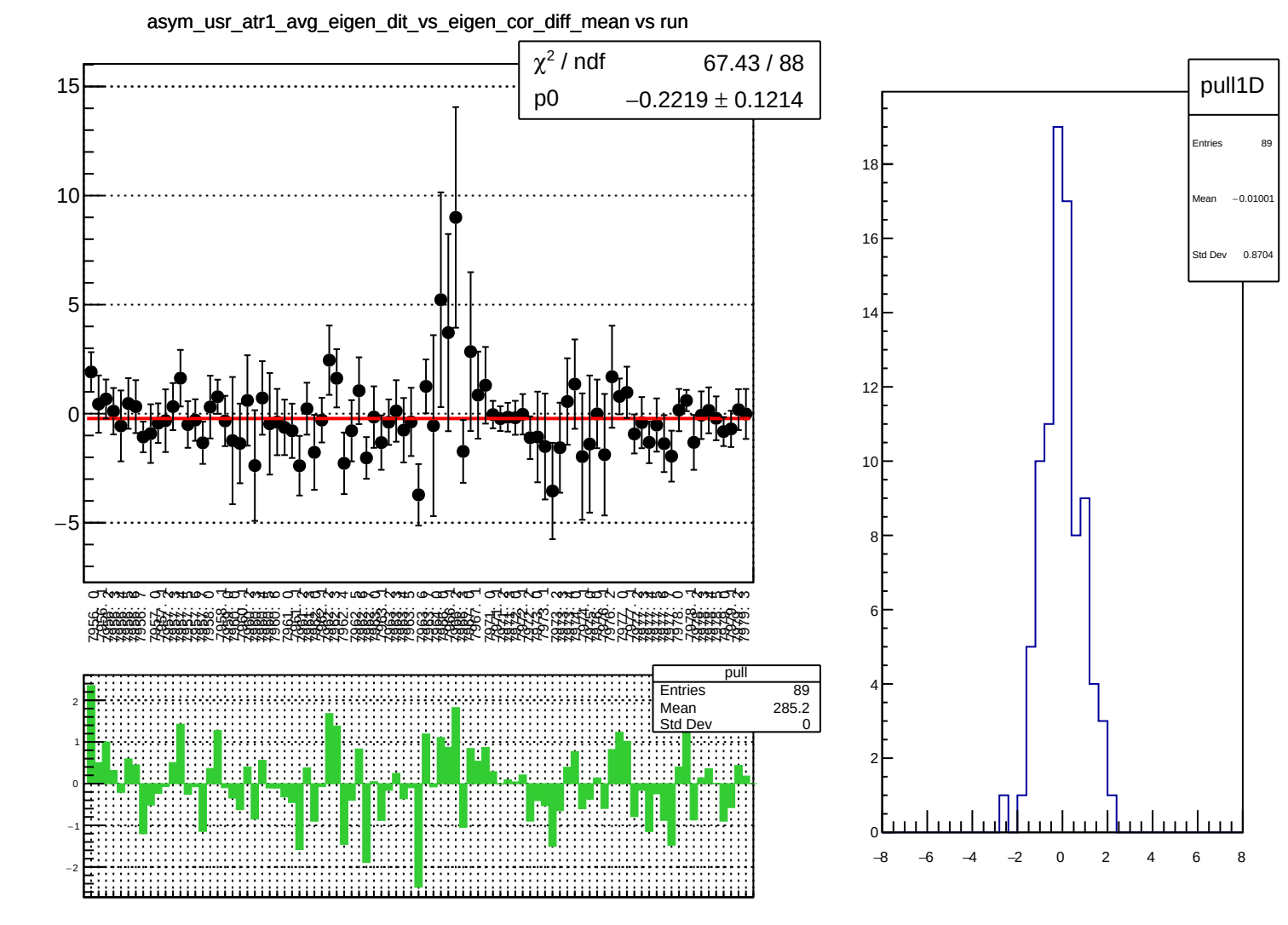

pull1D
Entries 89
Mean 0.01372
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

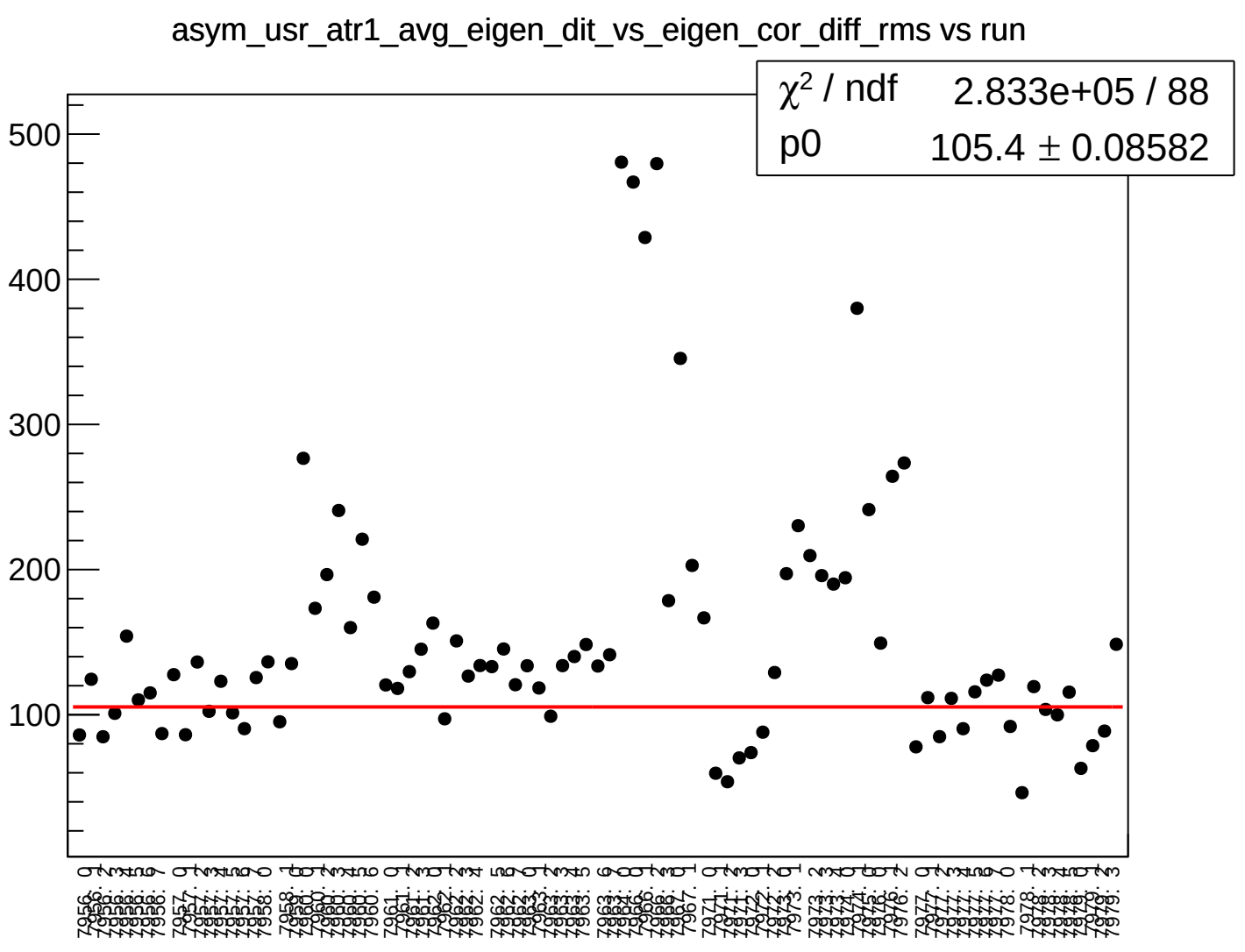

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.306e+05 / 88
p0 0.004411 ± 3.423e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

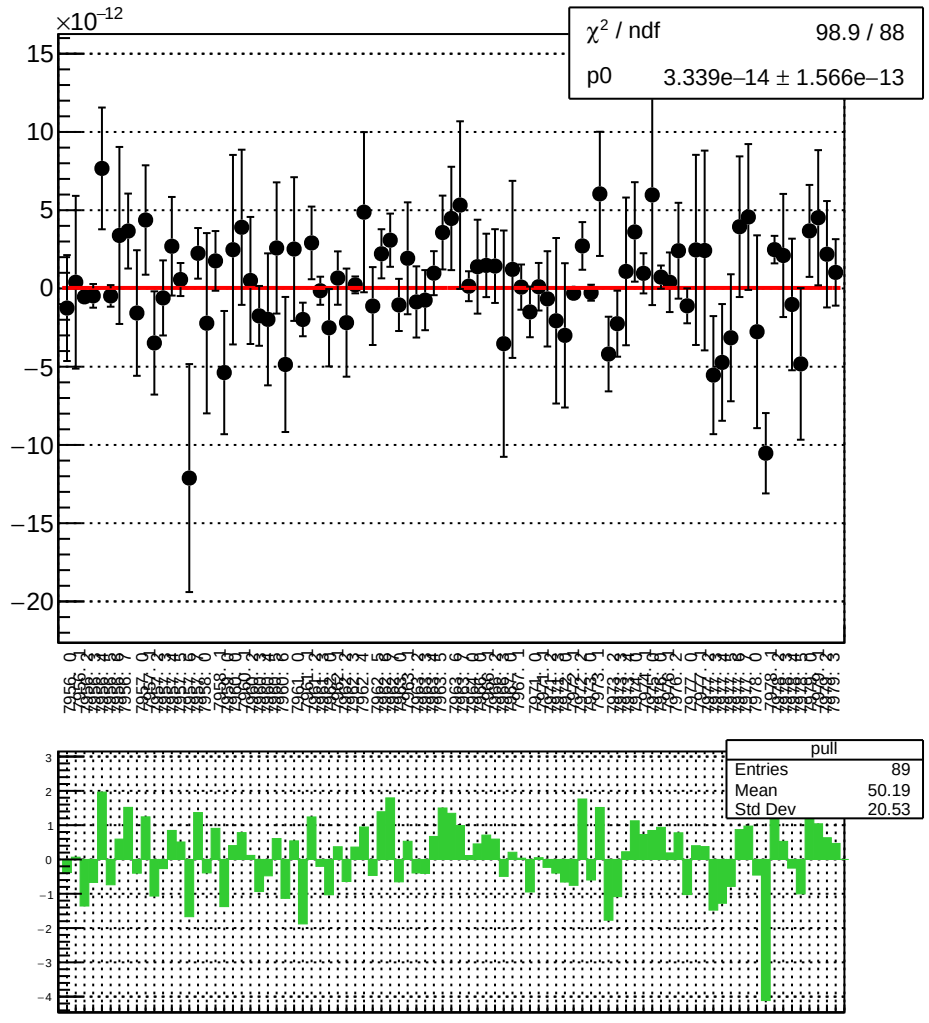

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.43 / 88
p0 −0.2219 ± 0.1214
pull
Entries 89
Mean 285.2
Std Dev 0

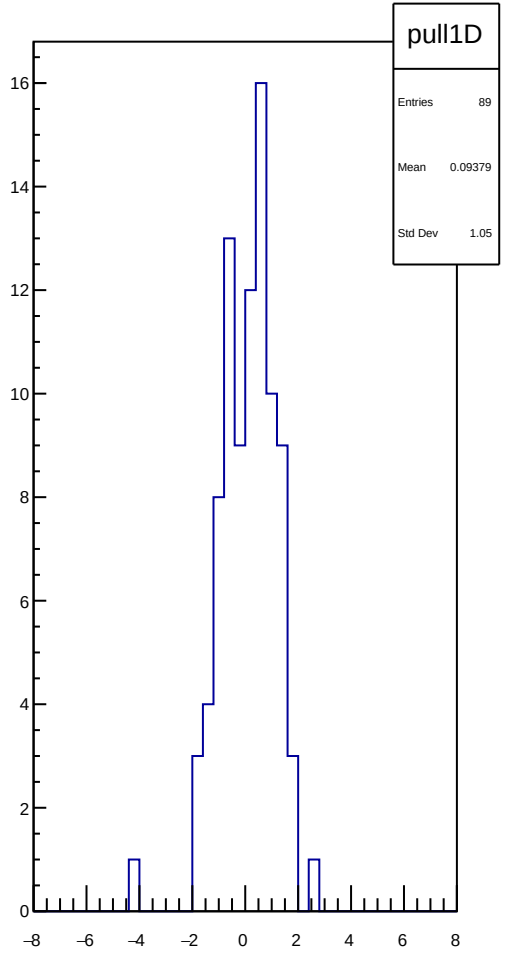

pull1D
Entries 89
Mean −0.01001
Std Dev 0.8704

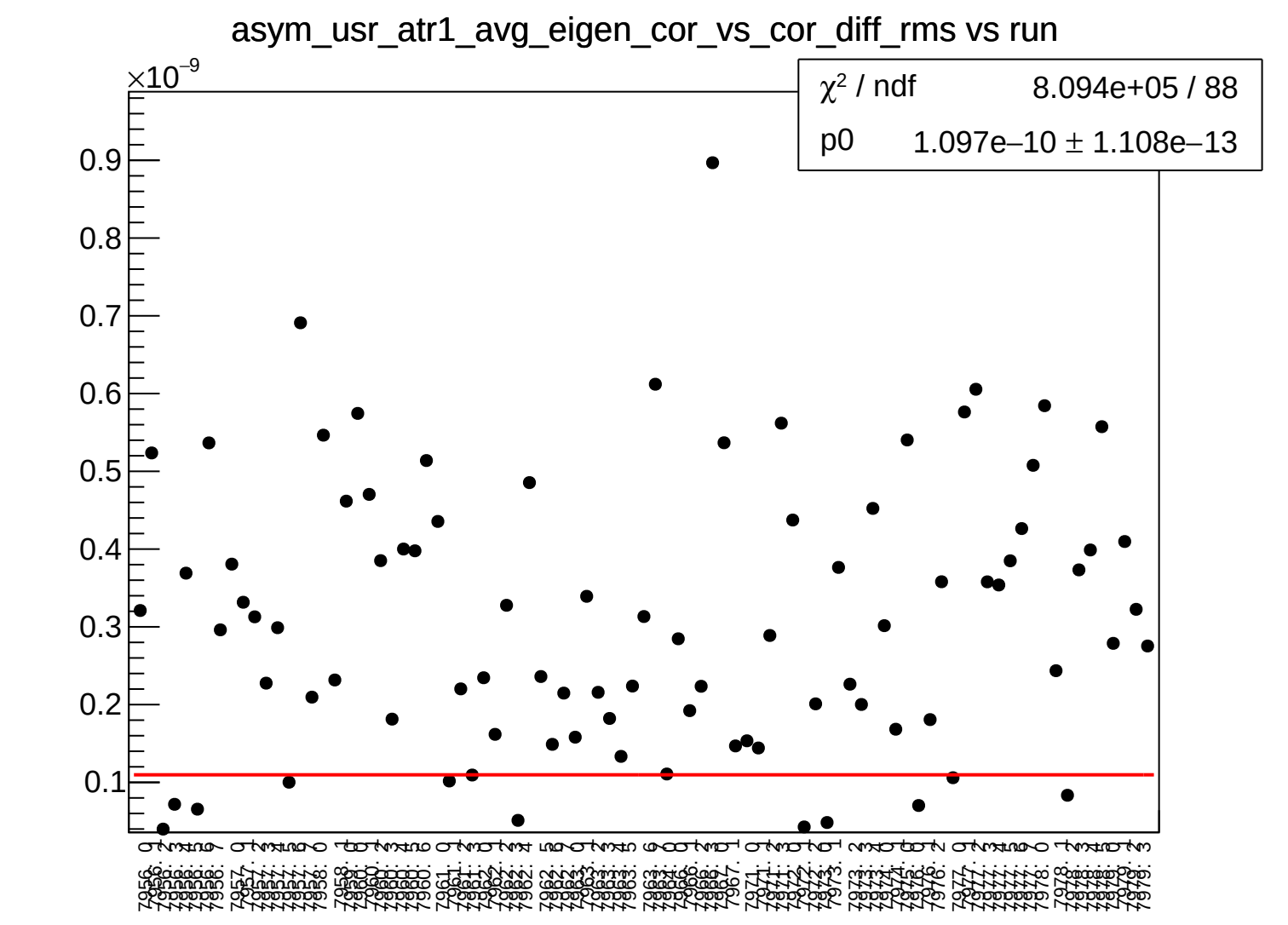

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.833e+05 / 88
p0 105.4 ± 0.08582
500
400
300
200
100

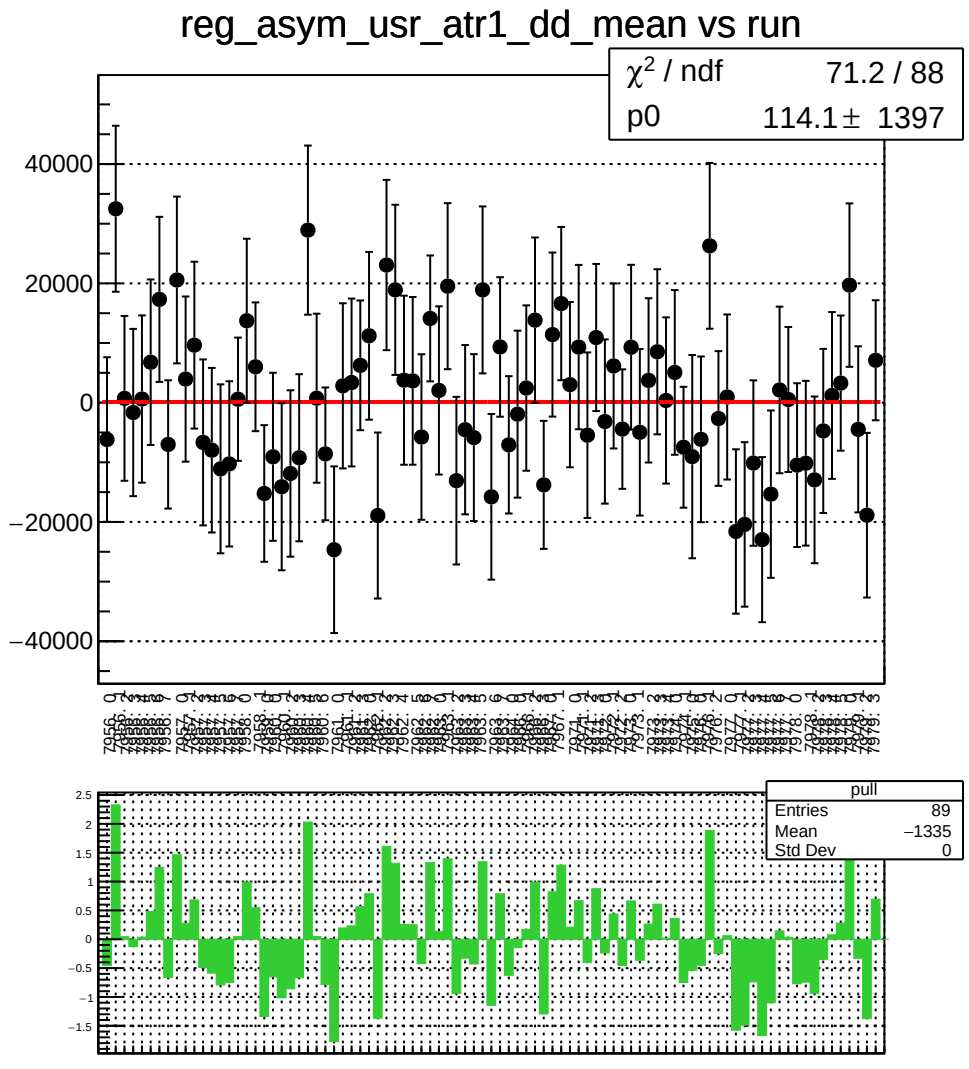

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.43 / 88
p0 −0.2219 ± 0.1214
pull
Entries 89
Mean 285.2
Std Dev 0
pull1D
Entries 89
Mean −0.01001
Std Dev 0.8704

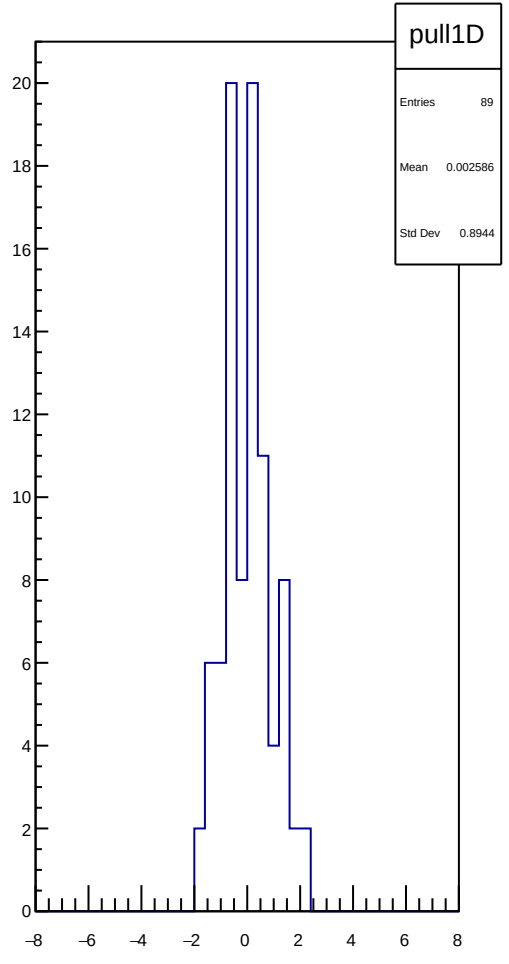

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.833e+05 / 88
p0 105.4 ± 0.08582
500
400
300
200
100

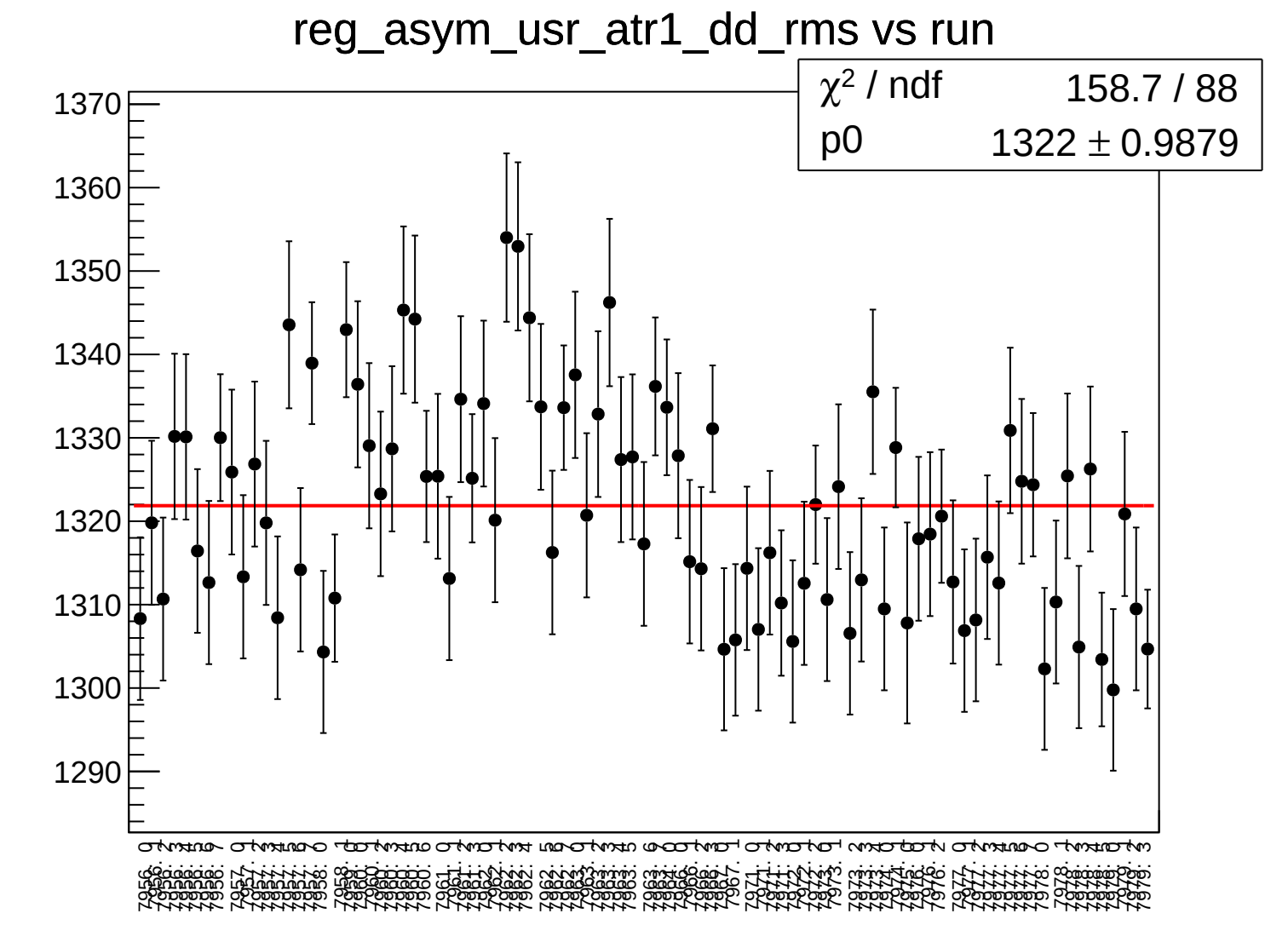

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.9 / 88
p0 3.339e−14 ± 1.566e−13
pull
Entries 89
Mean 50.19
Std Dev 20.53

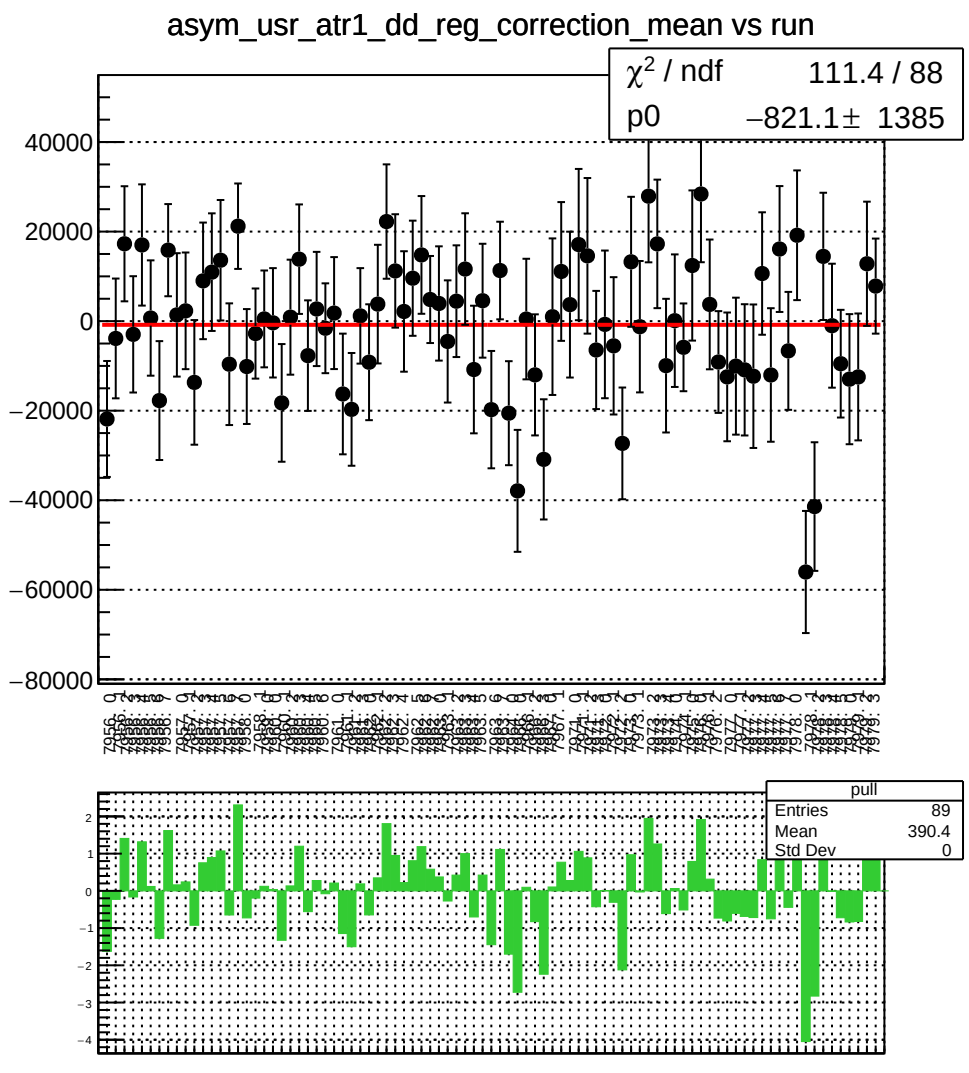

pull1D
Entries 89
Mean 0.09379
Std Dev 1.05

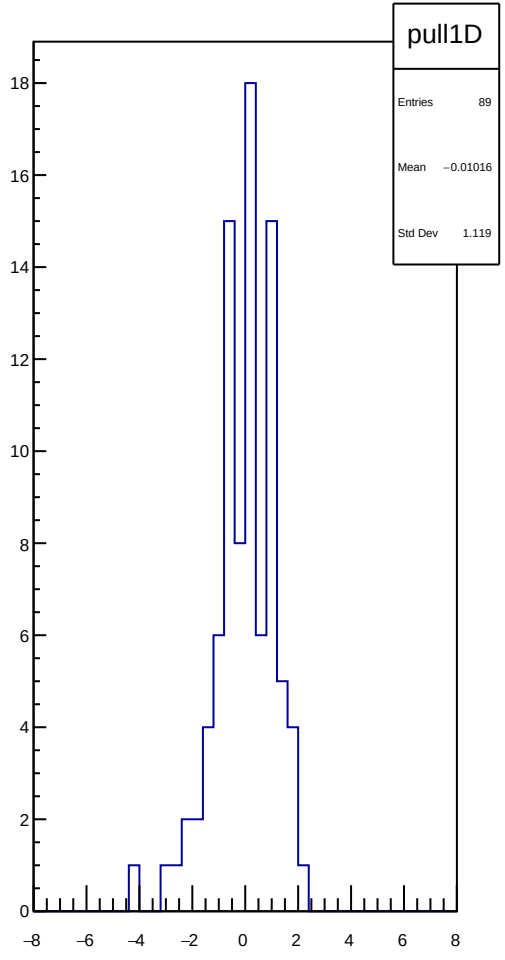

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.094e+05 / 88
p0 1.097e−10 ± 1.108e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

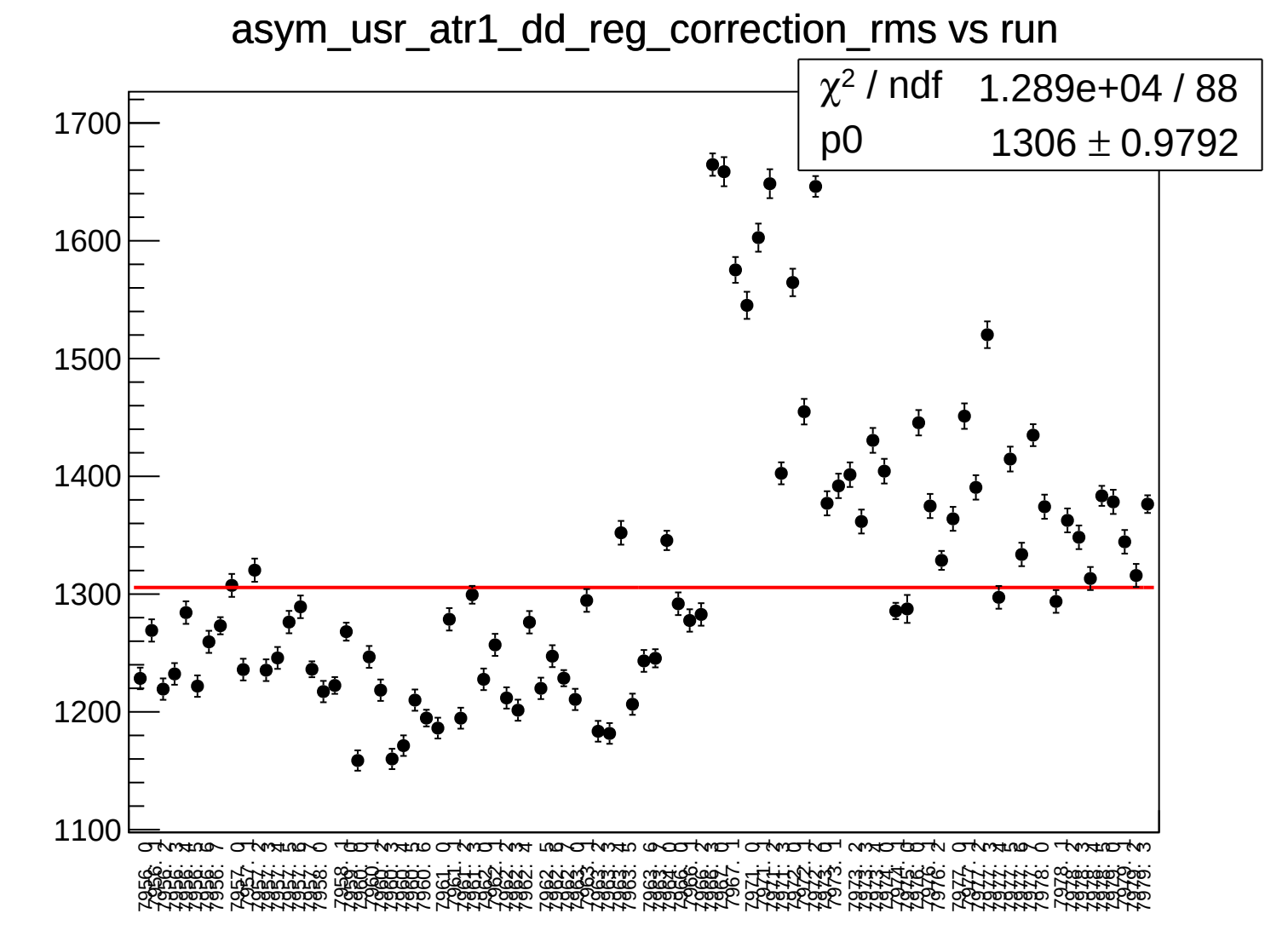

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 71.2 / 88
p0 114.1 ± 1397
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −1335
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

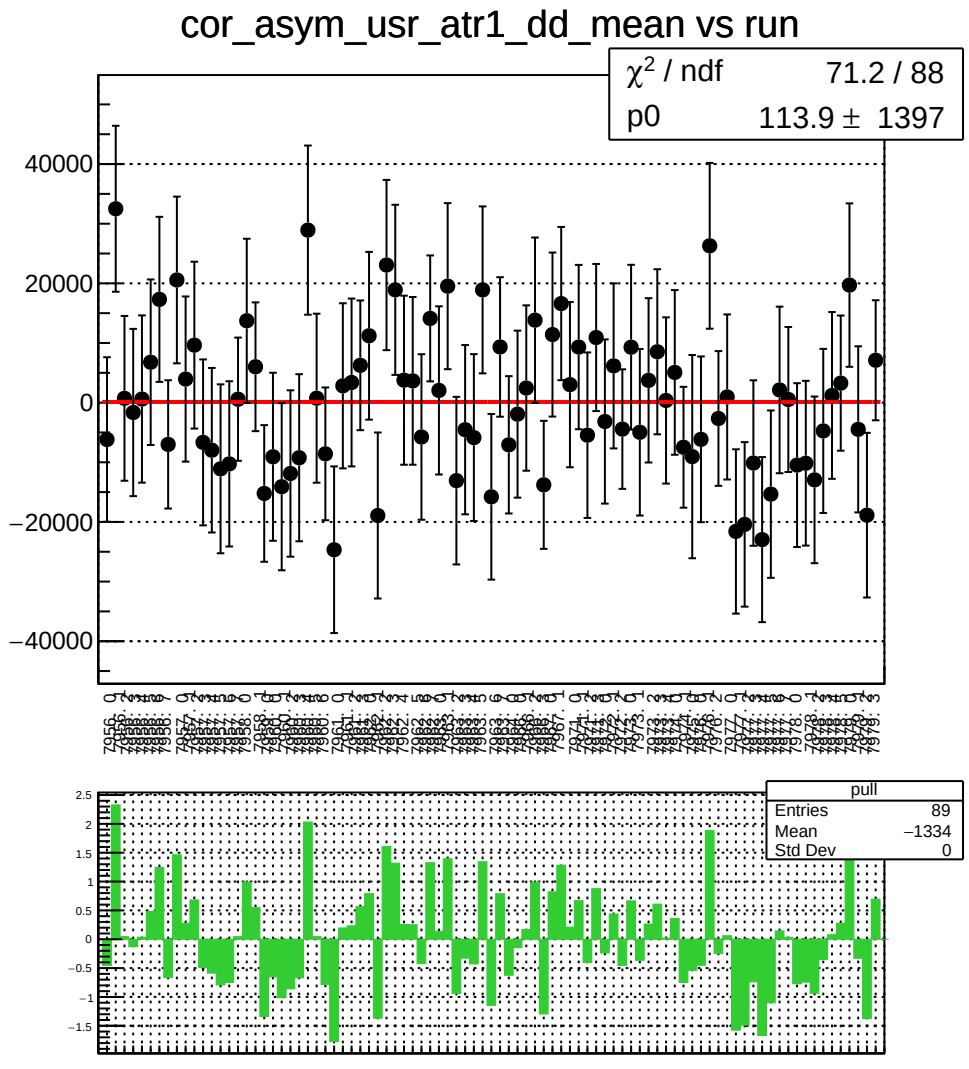

pull1D
Entries 89
Mean 0.002586
Std Dev 0.8944
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

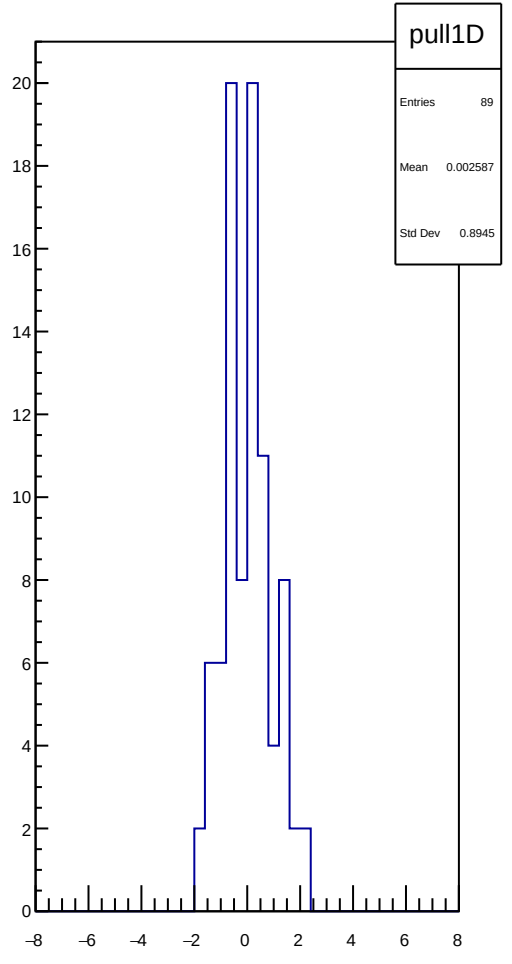

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 158.7 / 88
p0 1322 ± 0.9879
1370
1360
1350
1340
1330
1320
1310
1300
1290

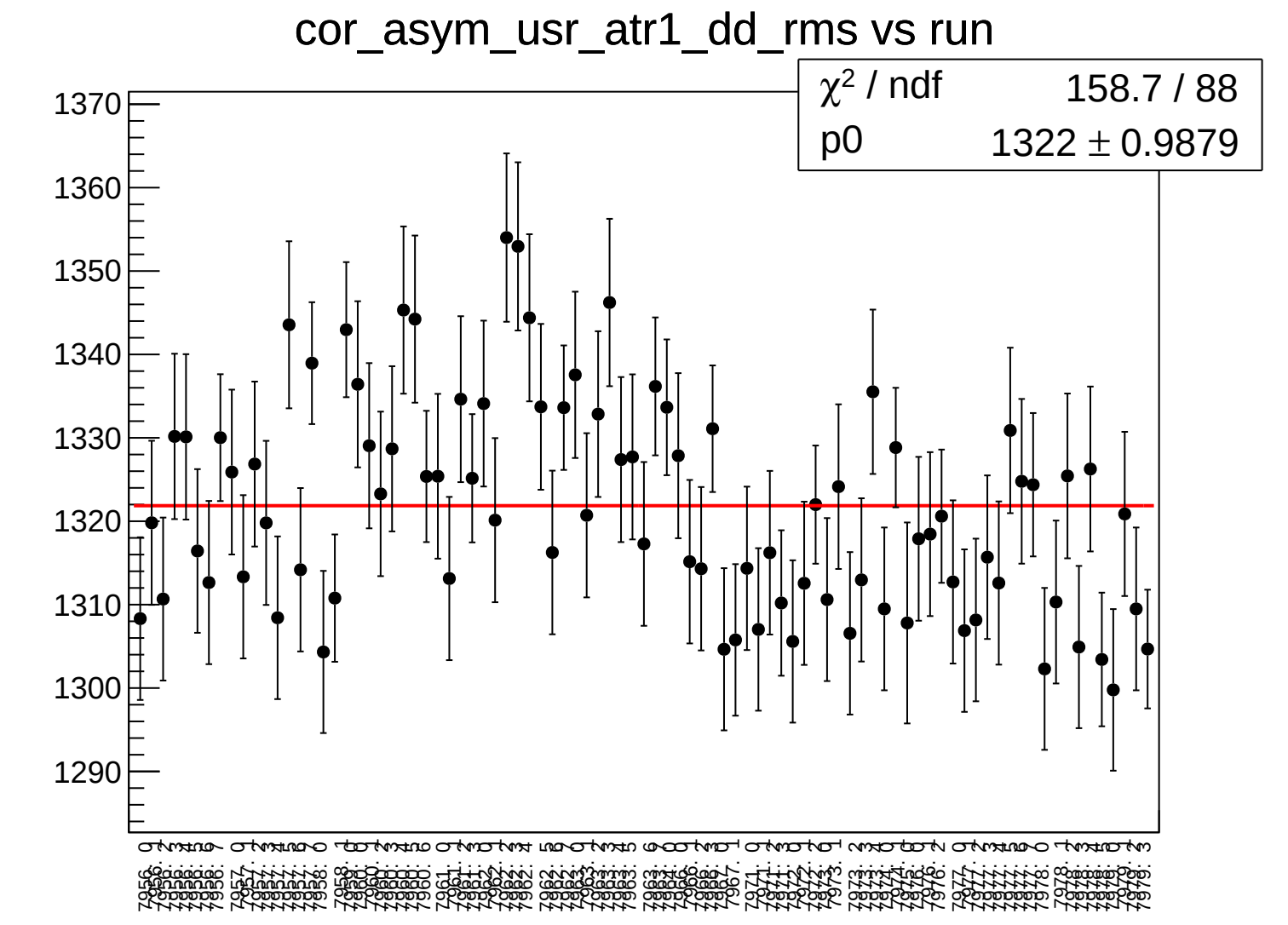

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 111.4 / 88
p0 −821.1± 1385
pull
Entries 89
Mean 390.4
Std Dev 0

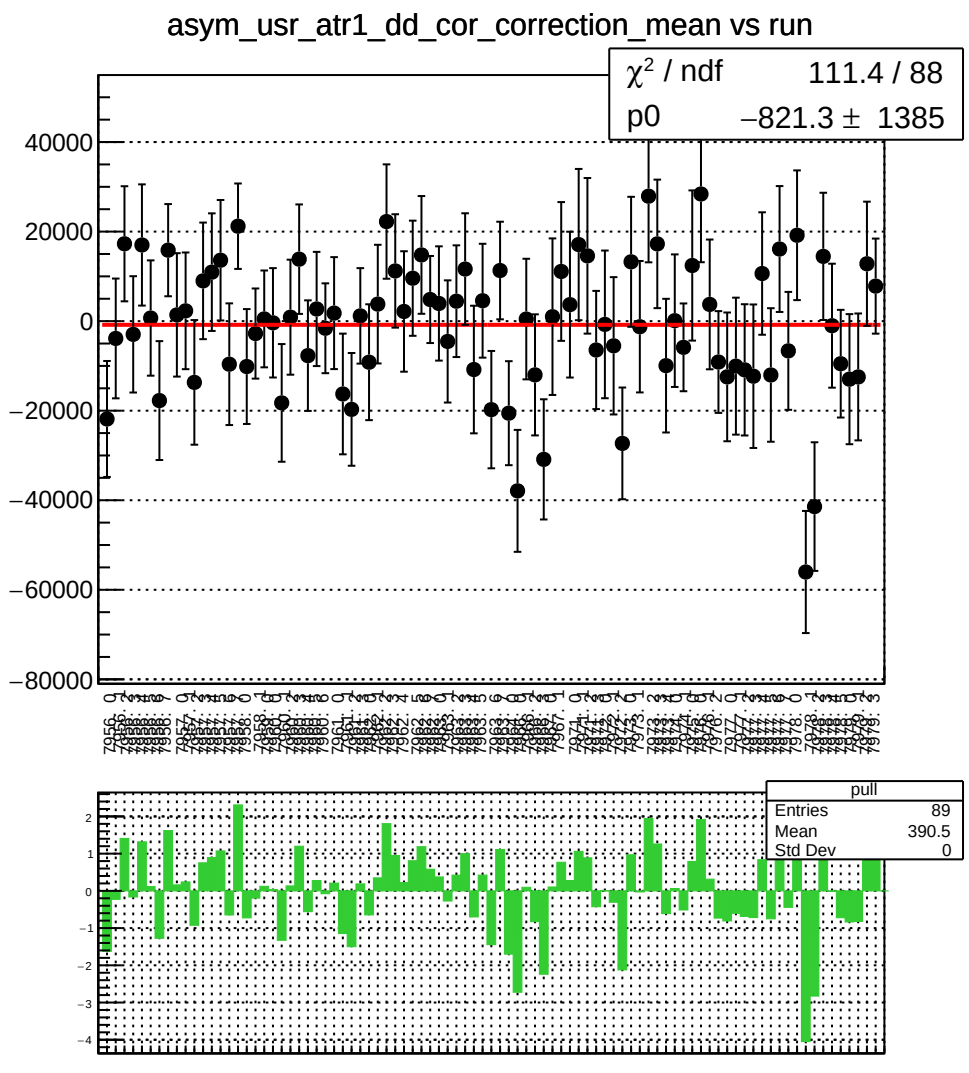

pull1D
Entries 89
Mean −0.01016
Std Dev 1.119

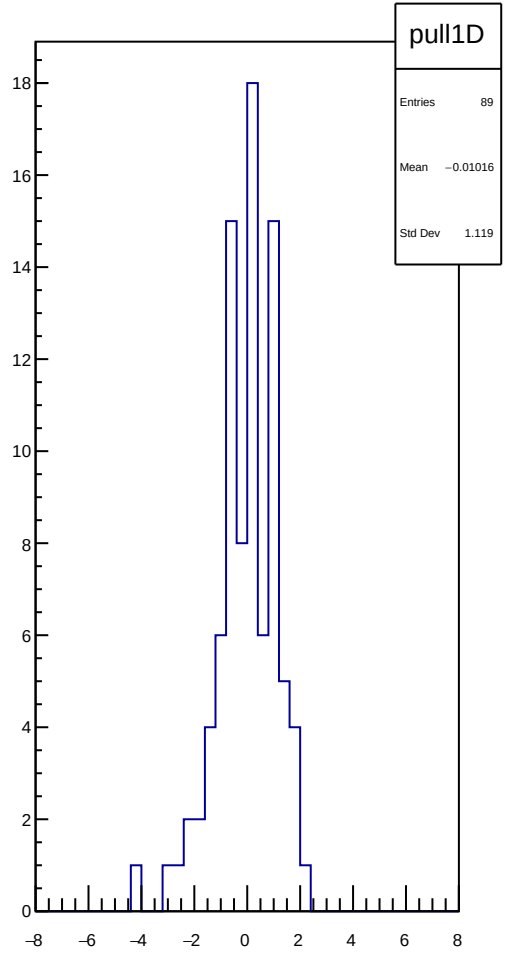

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.289e+04 / 88
p0 1306 ± 0.9792
1700
1600
1500
1400
1300
1200
1100

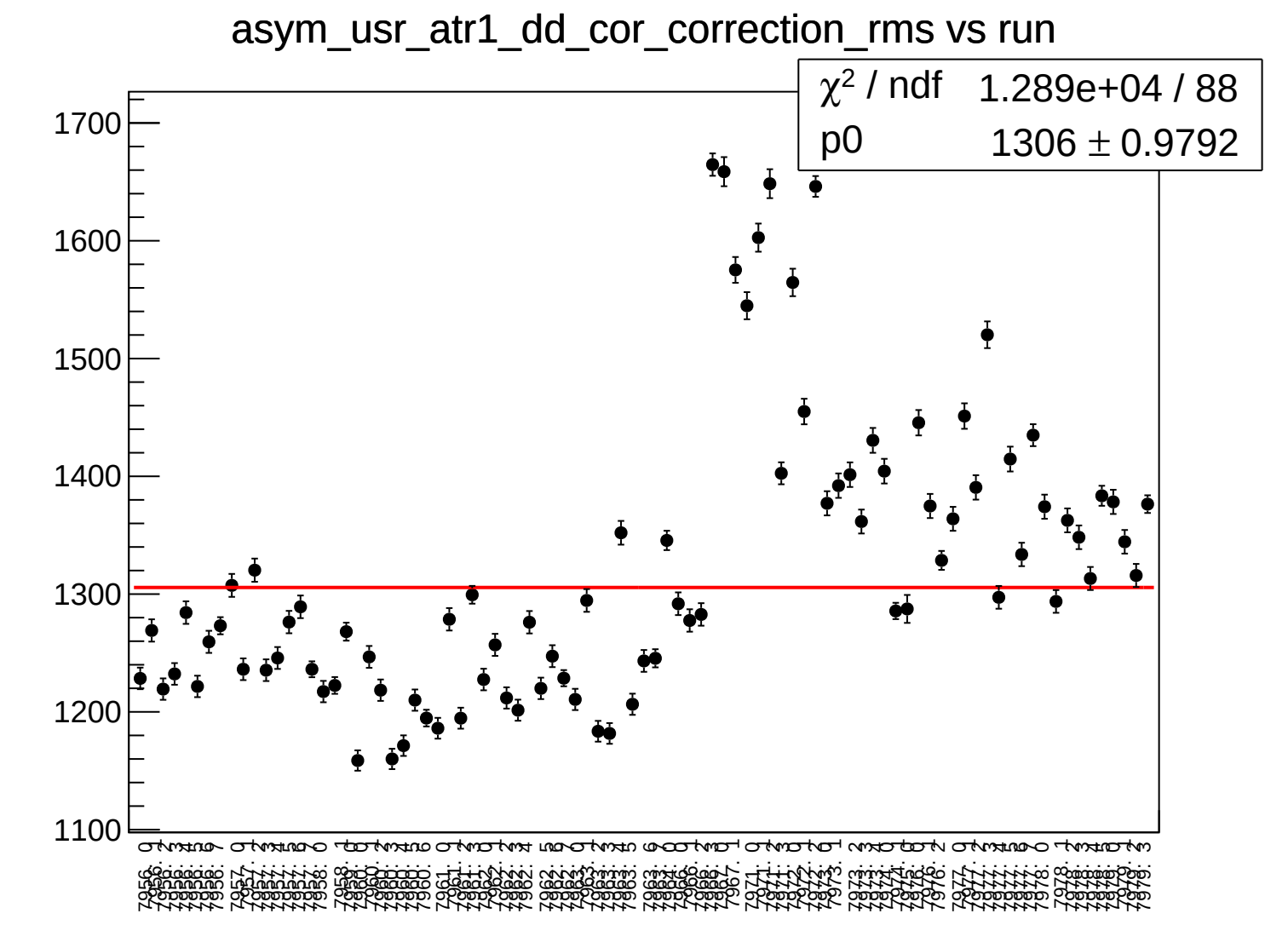

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 71.2 / 88
p0 113.9 ± 1397
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −1334
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

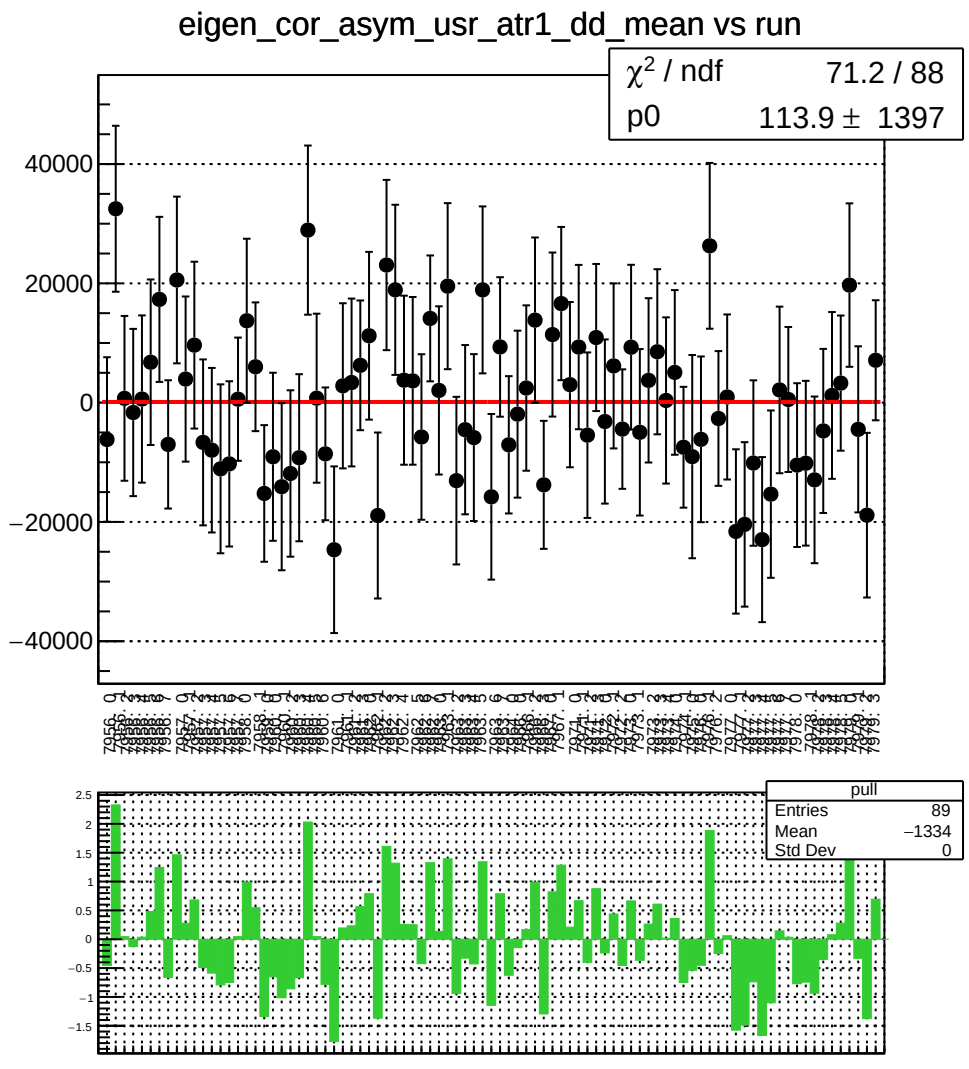

pull1D
Entries 89
Mean 0.002587
Std Dev 0.8945
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

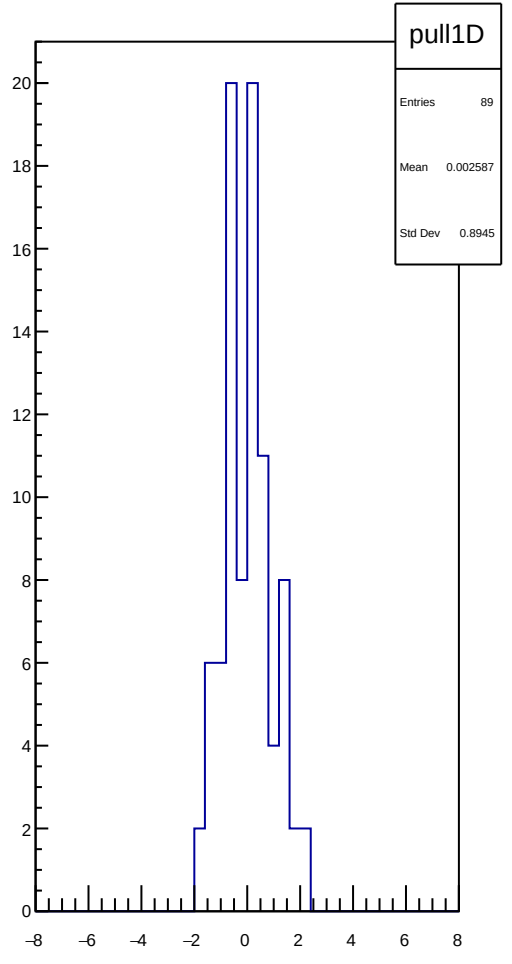

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 158.7 / 88
p0 1322 ± 0.9879
1370
1360
1350
1340
1330
1320
1310
1300
1290

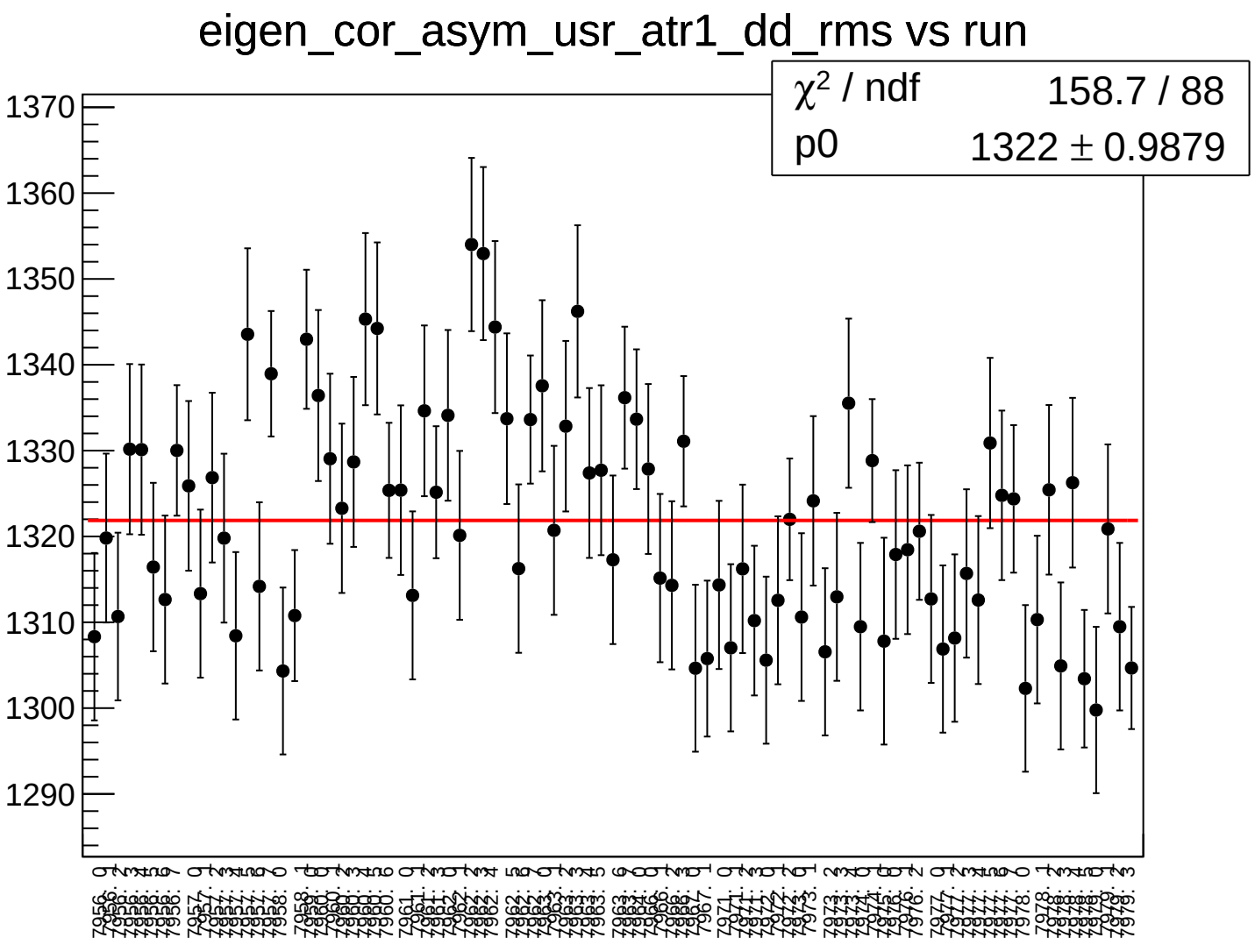

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 111.4 / 88
p0 −821.3 ± 1385
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 390.5
Std Dev 0
2
1
0
−1
−2
−3
−4

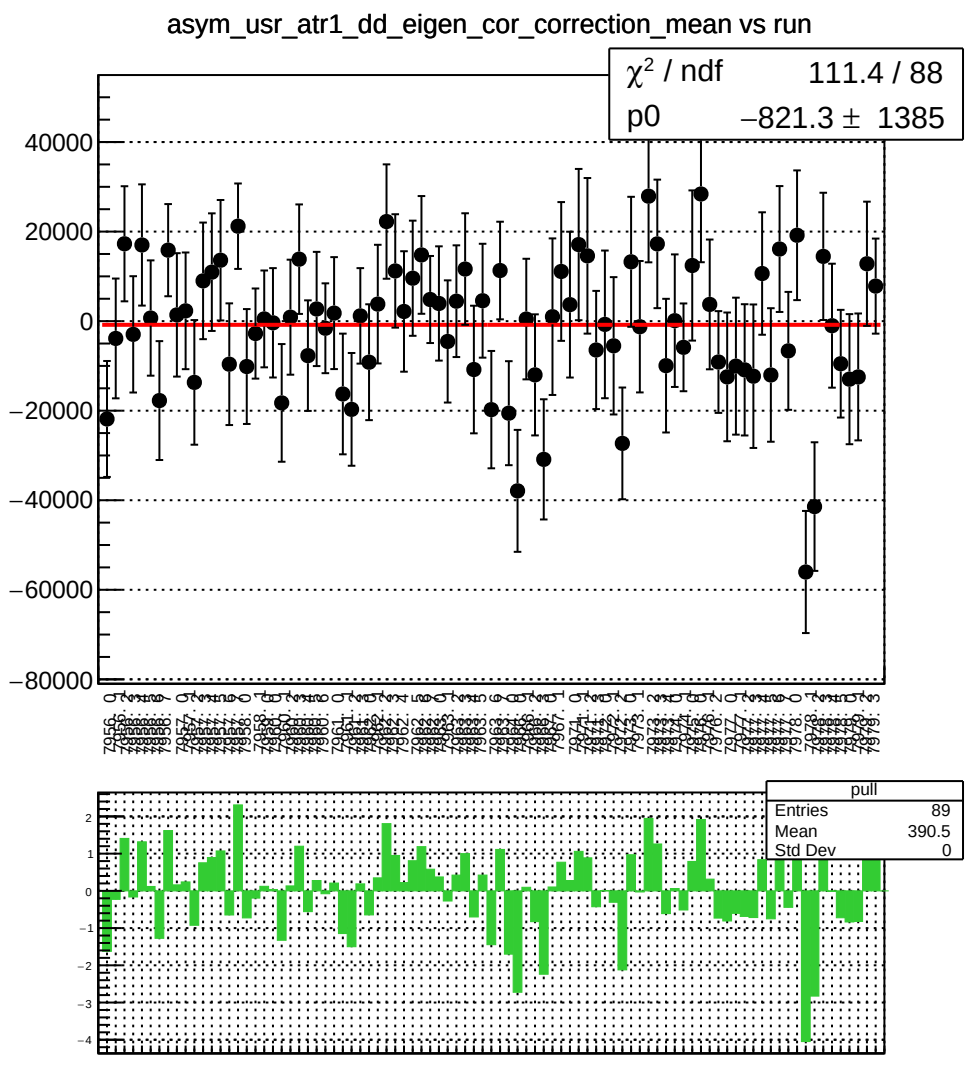

pull1D
Entries 89
Mean −0.01016
Std Dev 1.119
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

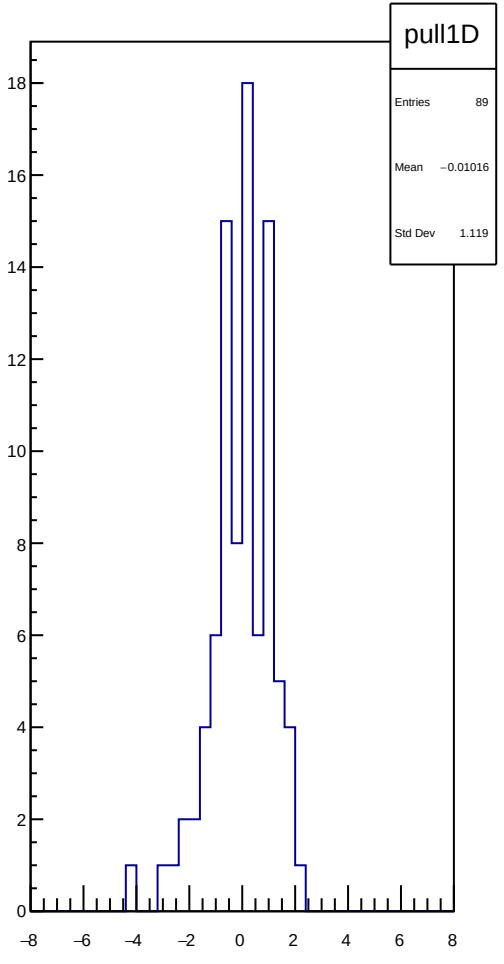

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.289e+04 / 88
p0 1306 ± 0.9792
1700
1600
1500
1400
1300
1200
1100

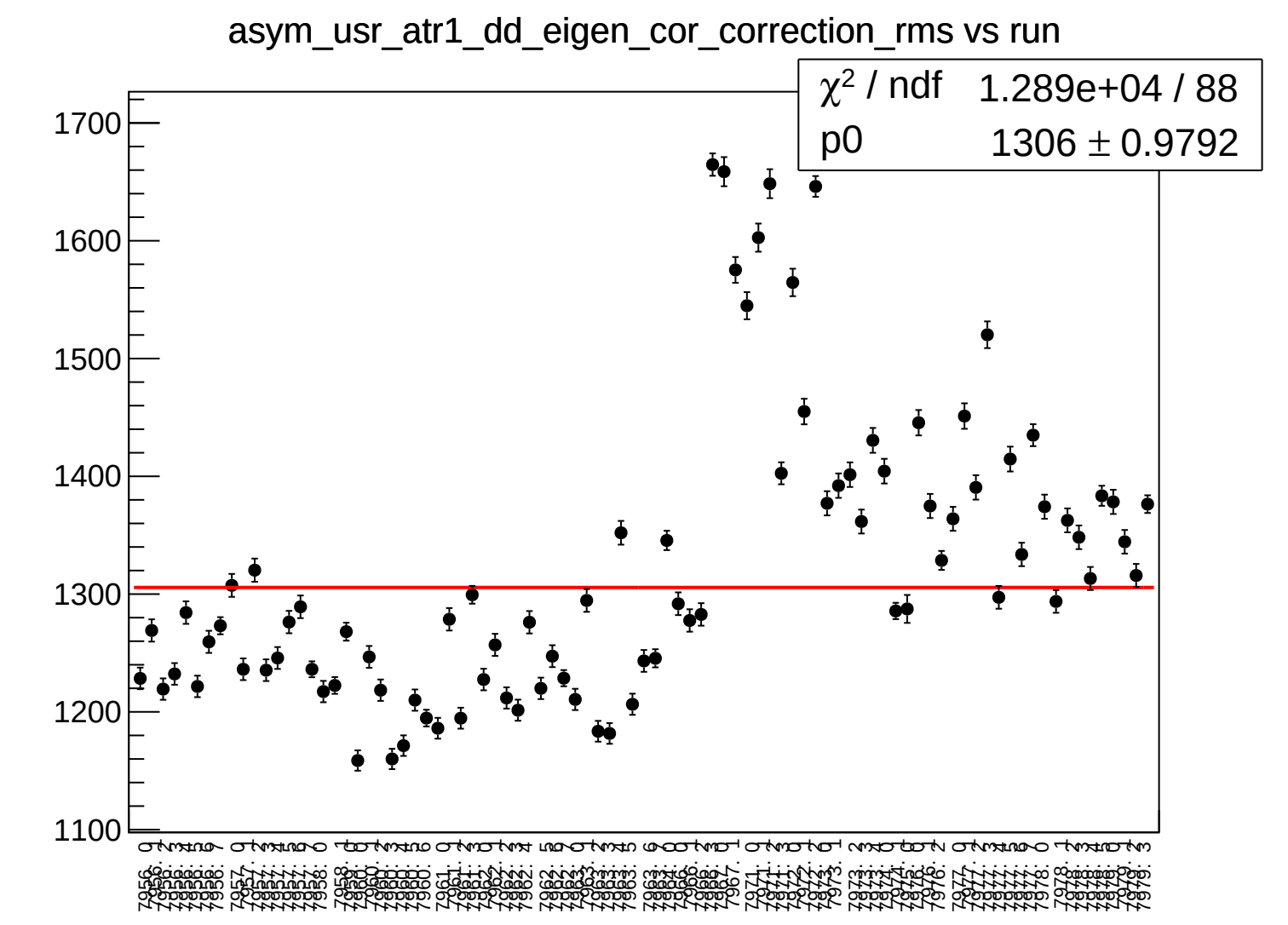

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 71.2 / 88
p0 113.9 ± 1397
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −1334
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

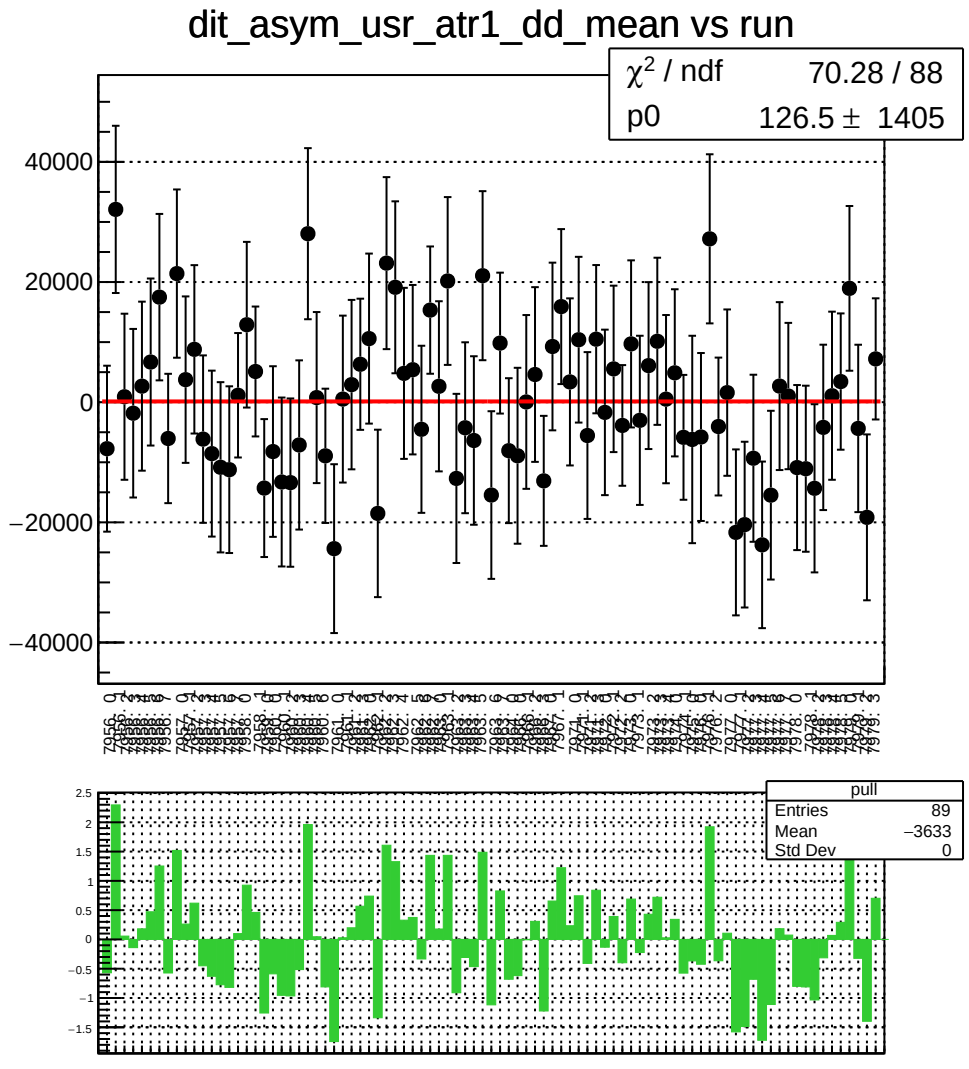

pull1D
Entries 89
Mean 0.002587
Std Dev 0.8945
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

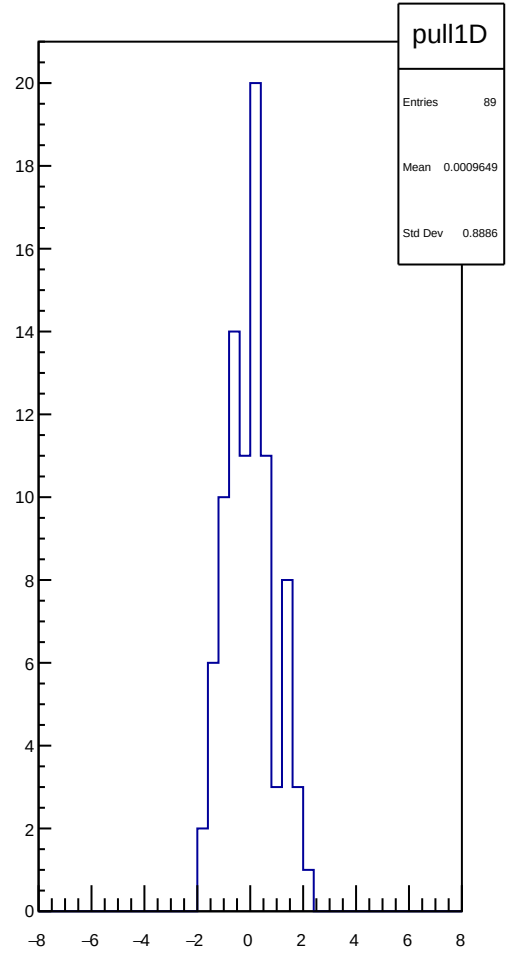

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 158.7 / 88
p0 1322 ± 0.9879
1370
1360
1350
1340
1330
1320
1310
1300
1290

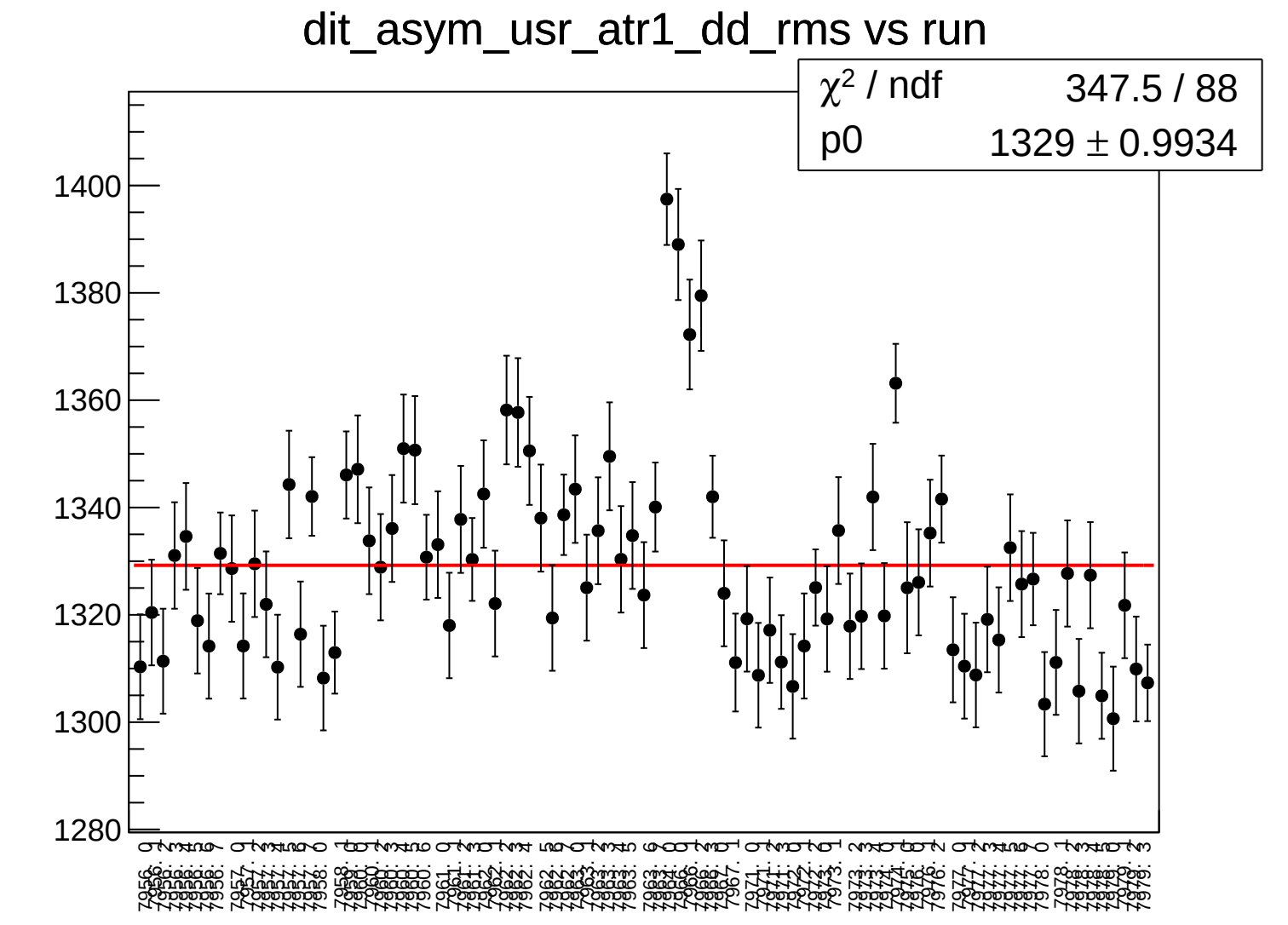

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 111.4 / 88
p0 −821.3 ± 1385
pull
Entries 89
Mean 390.5
Std Dev 0

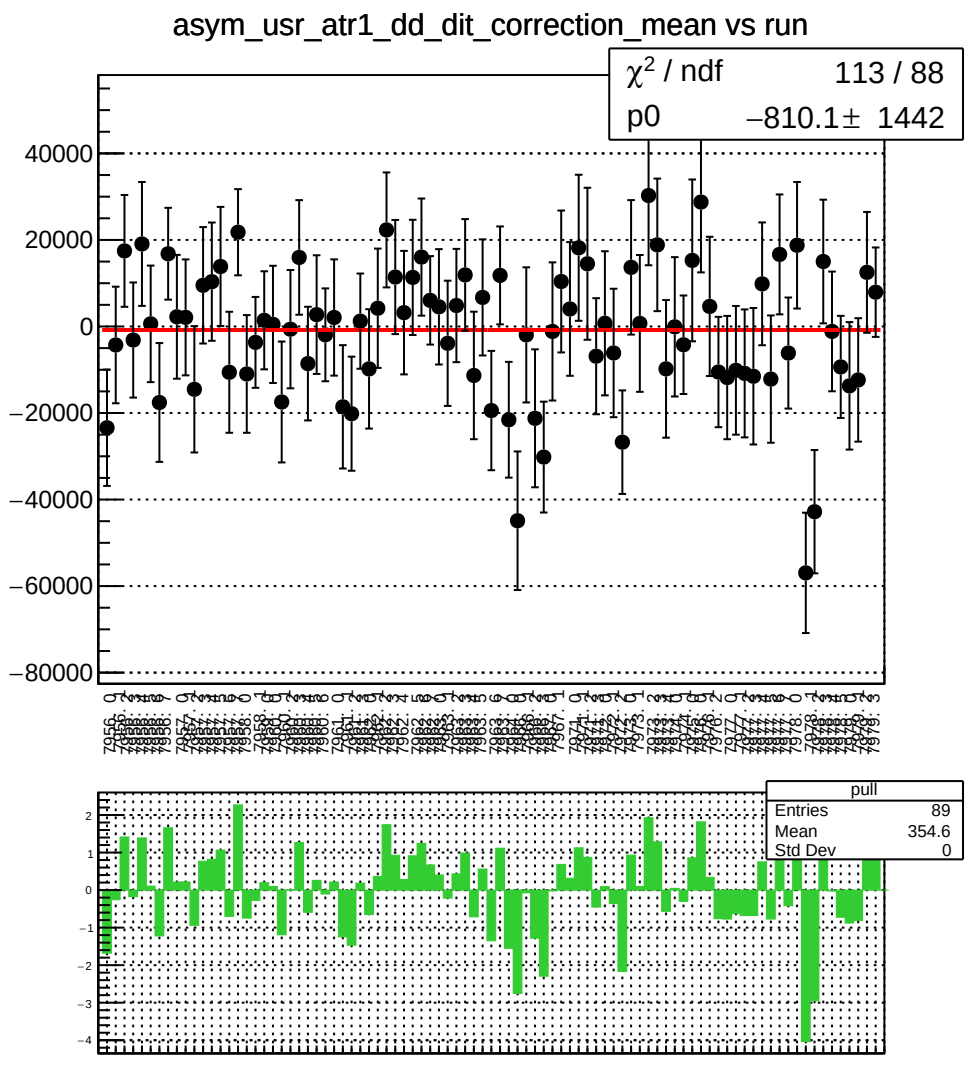

pull1D
Entries 89
Mean −0.01016
Std Dev 1.119

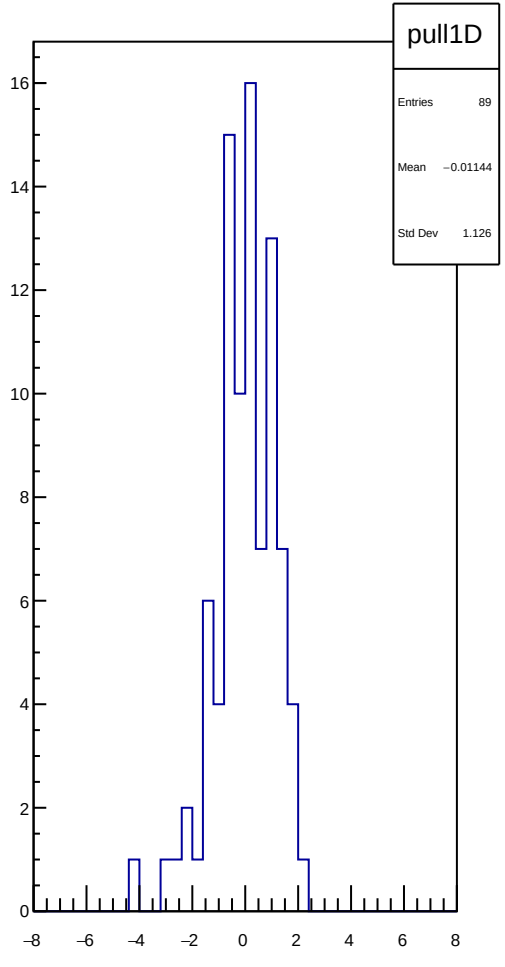

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.289e+04 / 88
p0 1306 ± 0.9792
1700
1600
1500
1400
1300
1200
1100

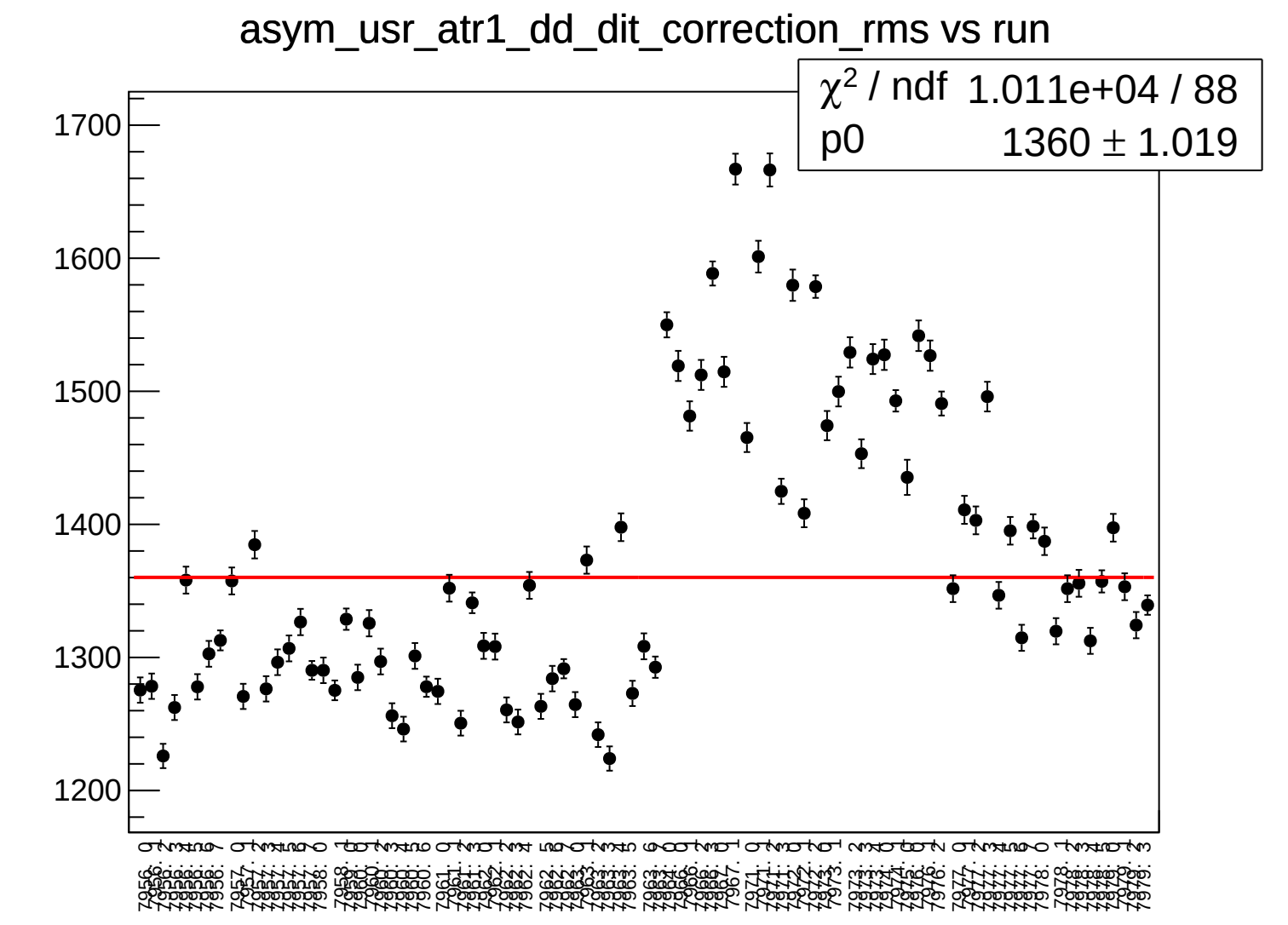

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 70.28 / 88
p0 126.5 ± 1405
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −3633
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

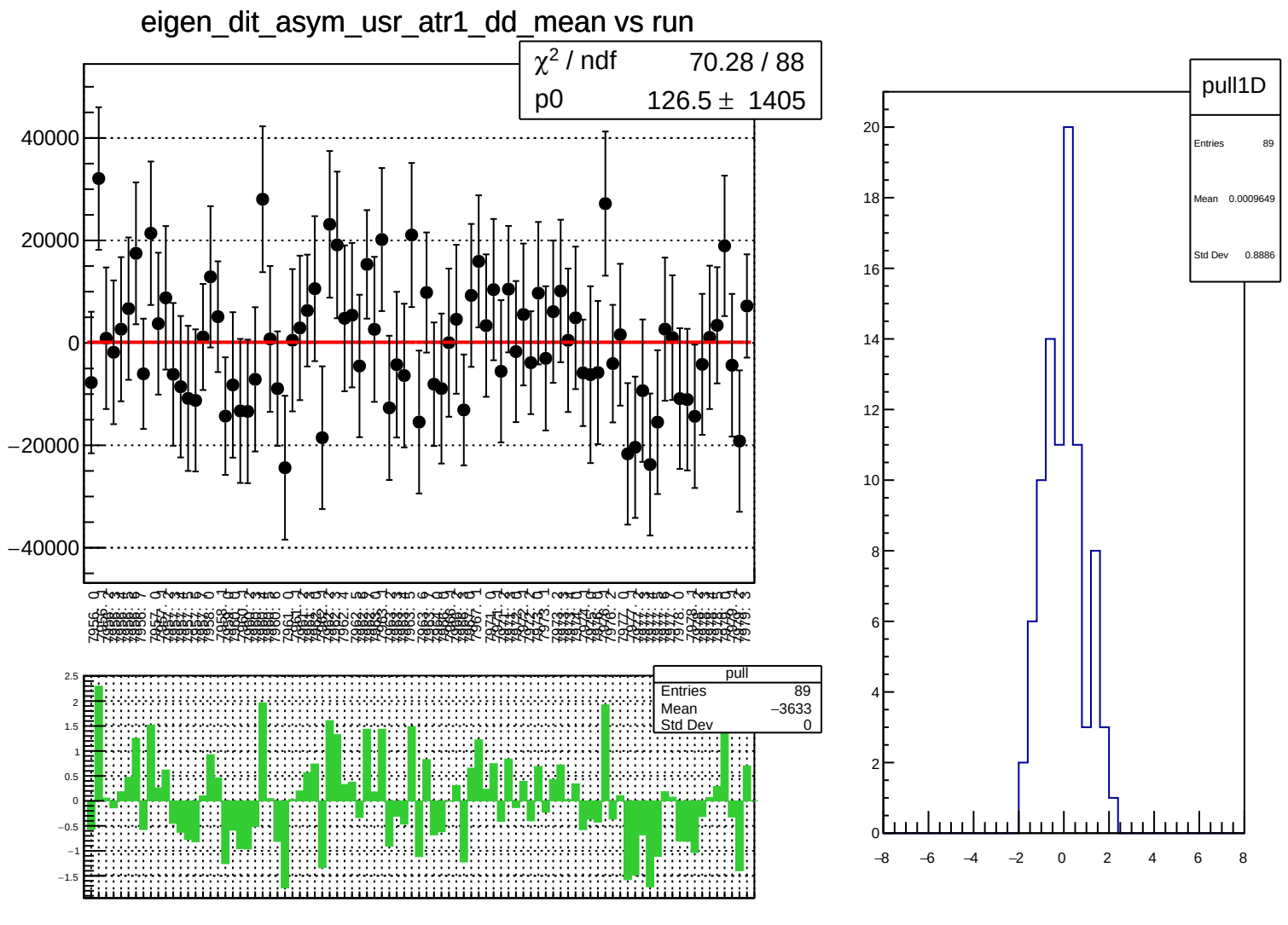

pull1D
Entries 89
Mean 0.0009649
Std Dev 0.8886
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

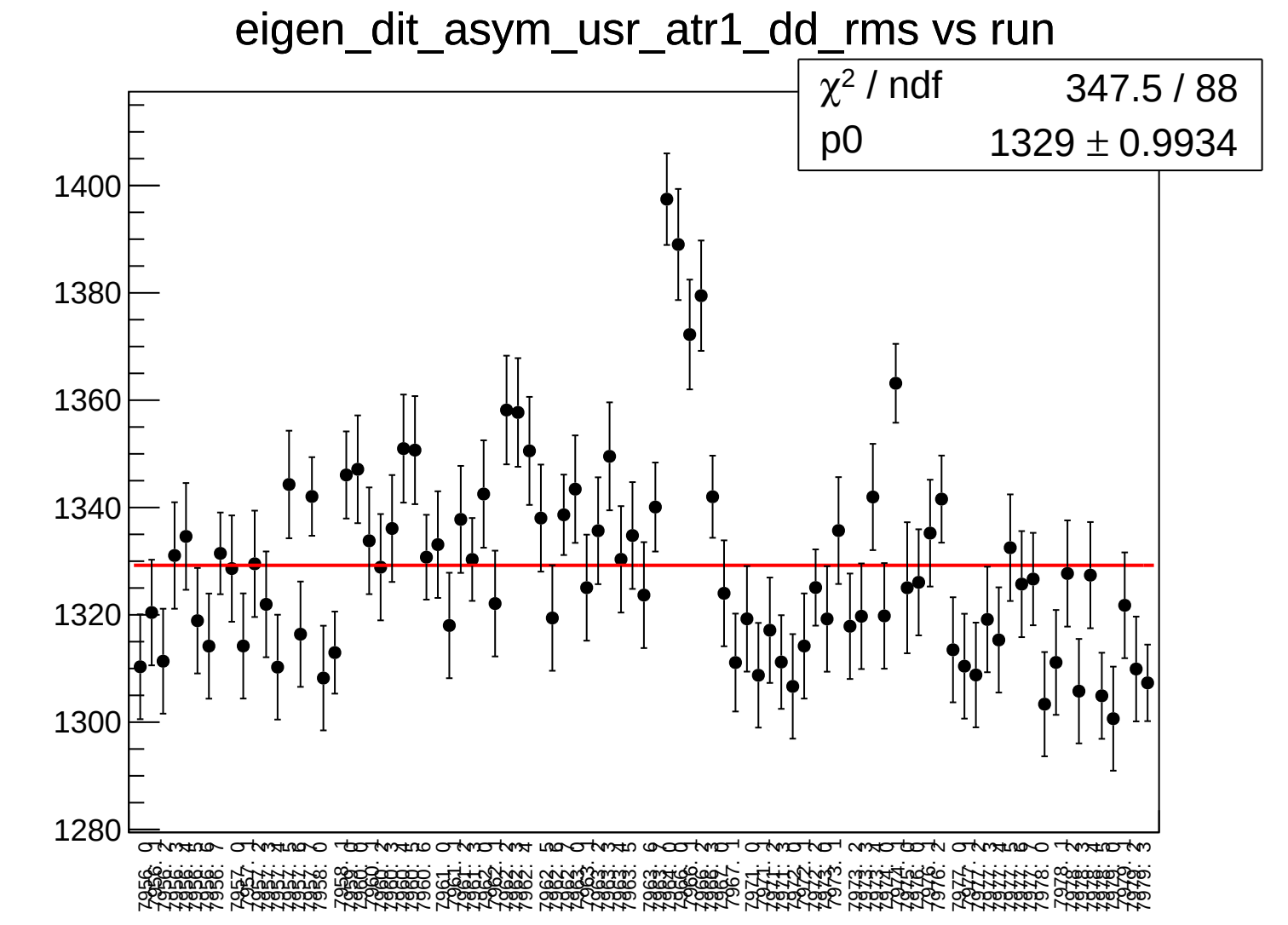

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 347.5 / 88
p0 1329 ± 0.9934
1400
1380
1360
1340
1320
1300
1280

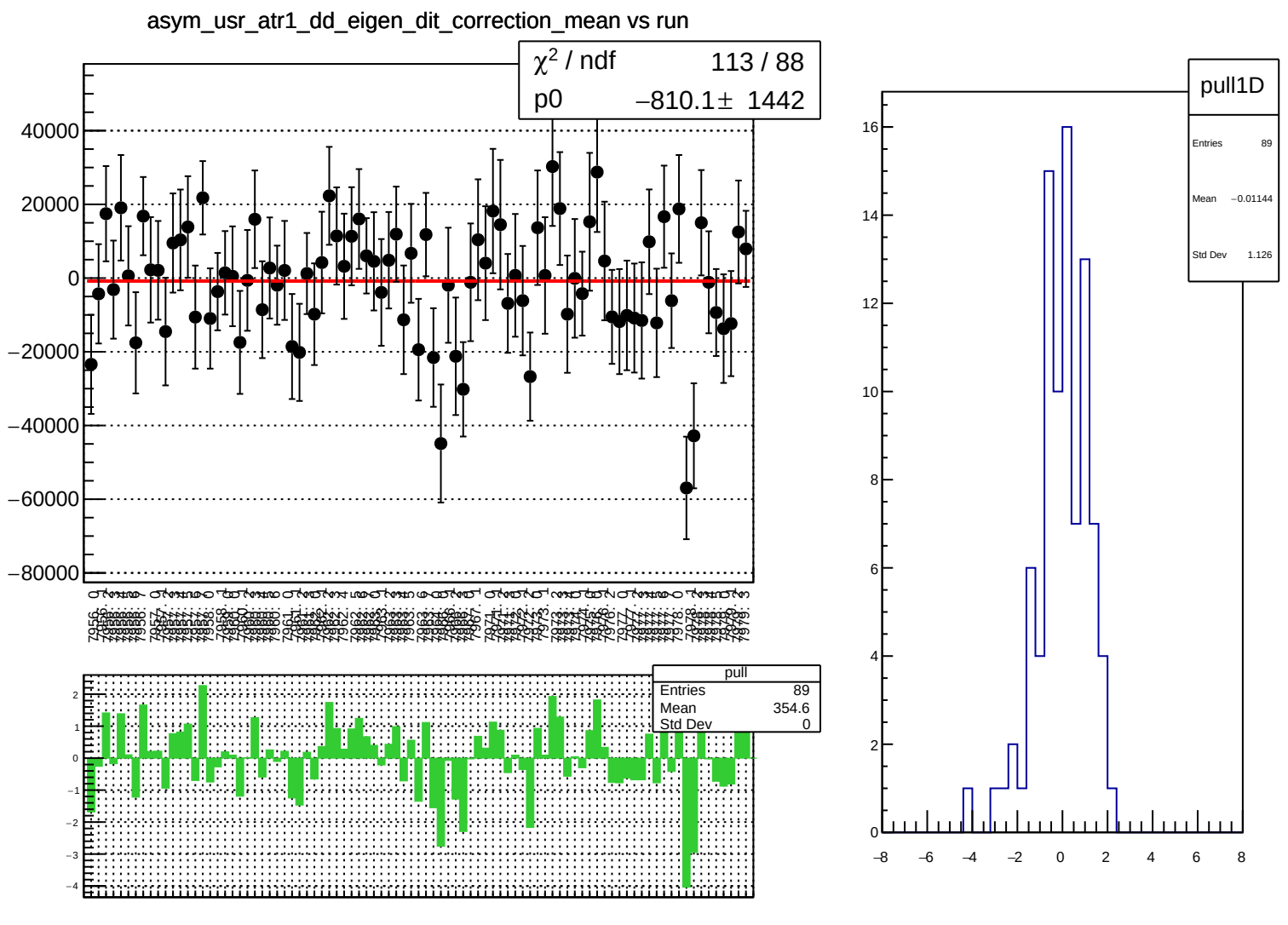

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 113 / 88
p0 −810.1± 1442
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 354.6
Std Dev 0
2
1
0
−1
−2
−3
−4

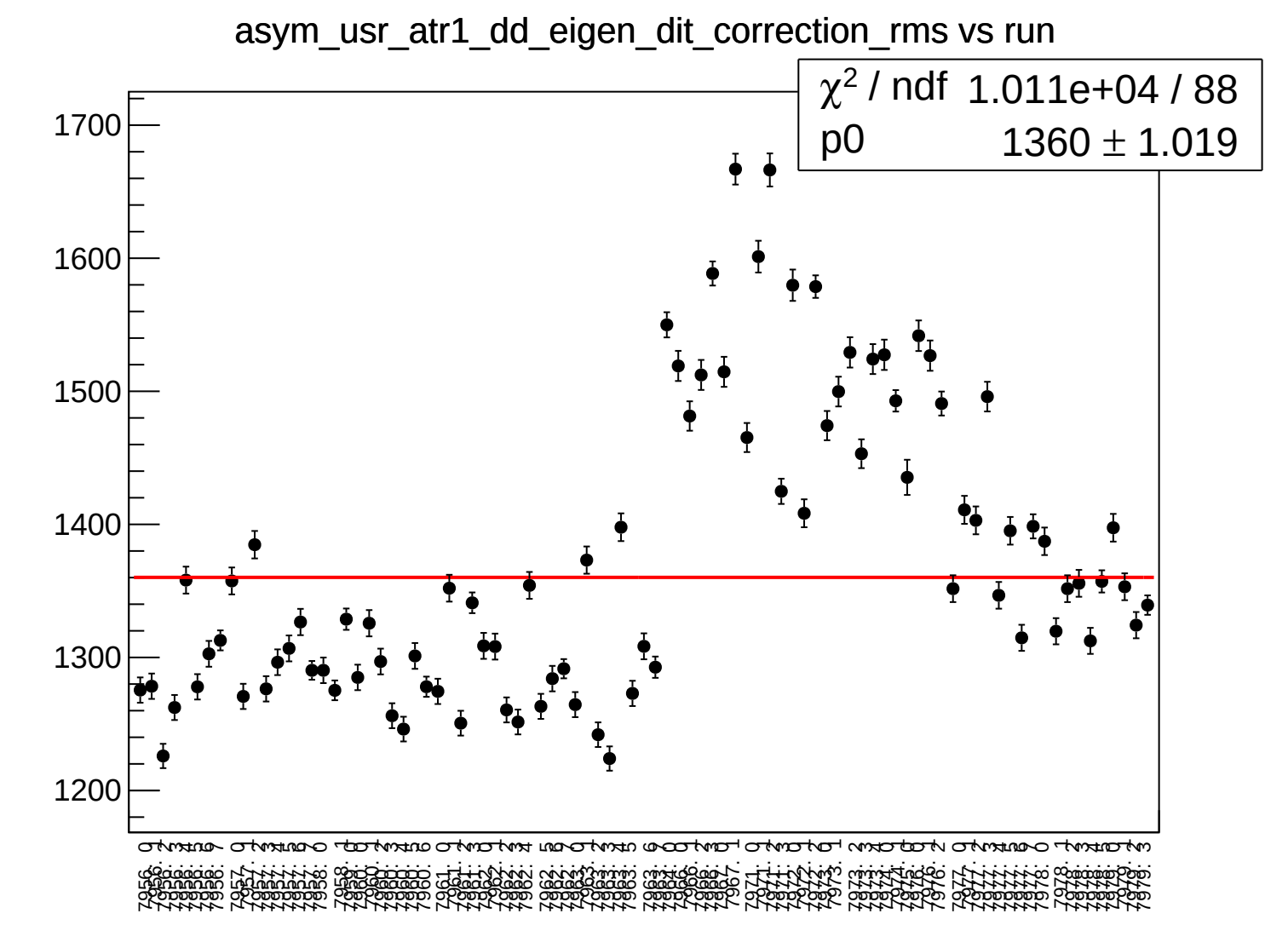

pull1D
Entries 89
Mean −0.01144
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

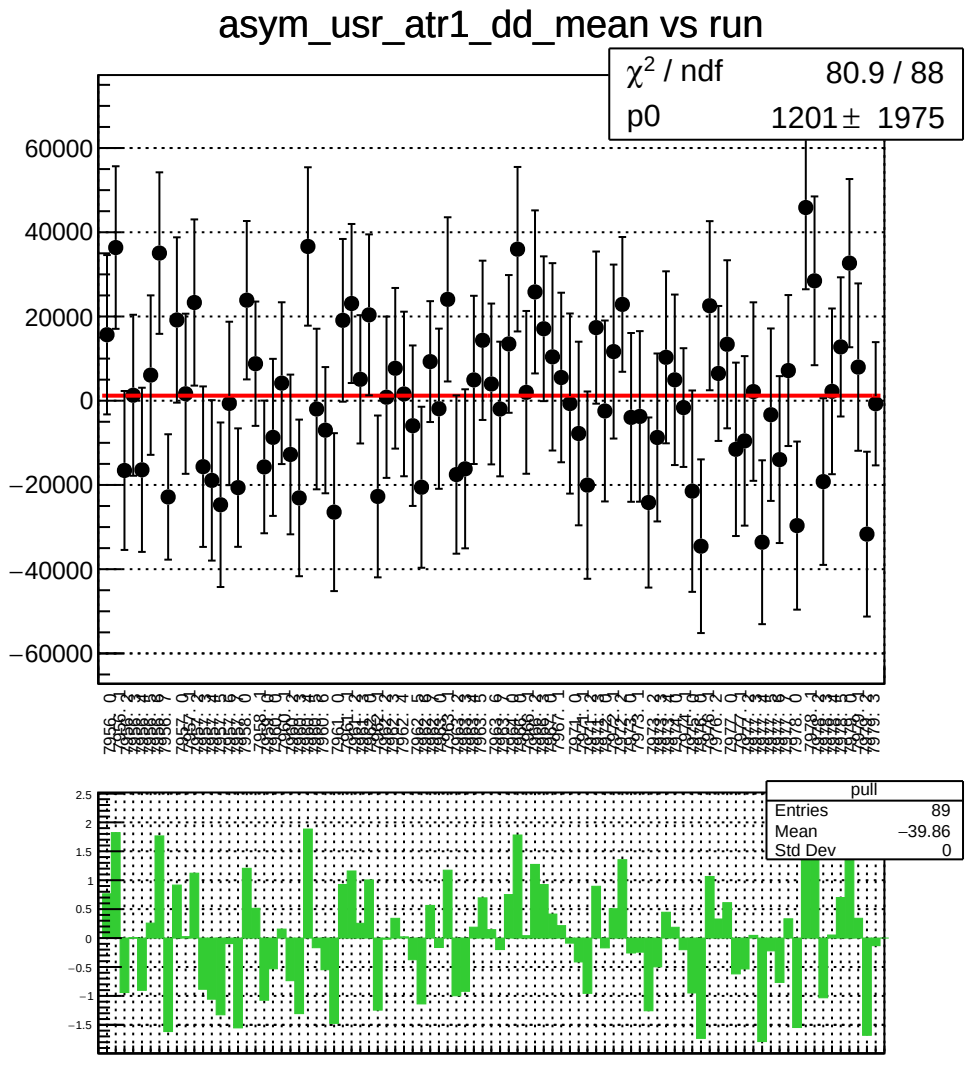

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.011e+04 / 88
p0 1360 ± 1.019
1700
1600
1500
1400
1300
1200

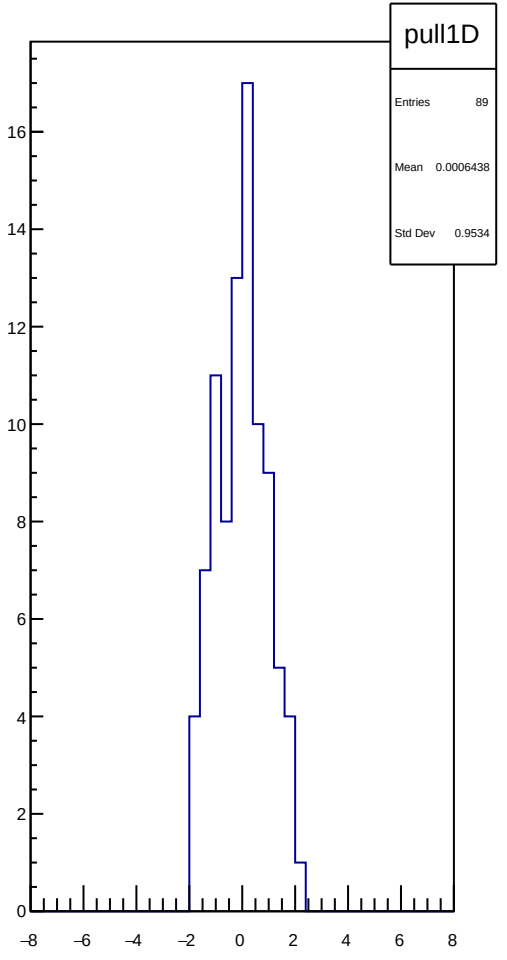

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 70.28 / 88
p0 126.5 ± 1405
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −3633
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.0009649
Std Dev 0.8886
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

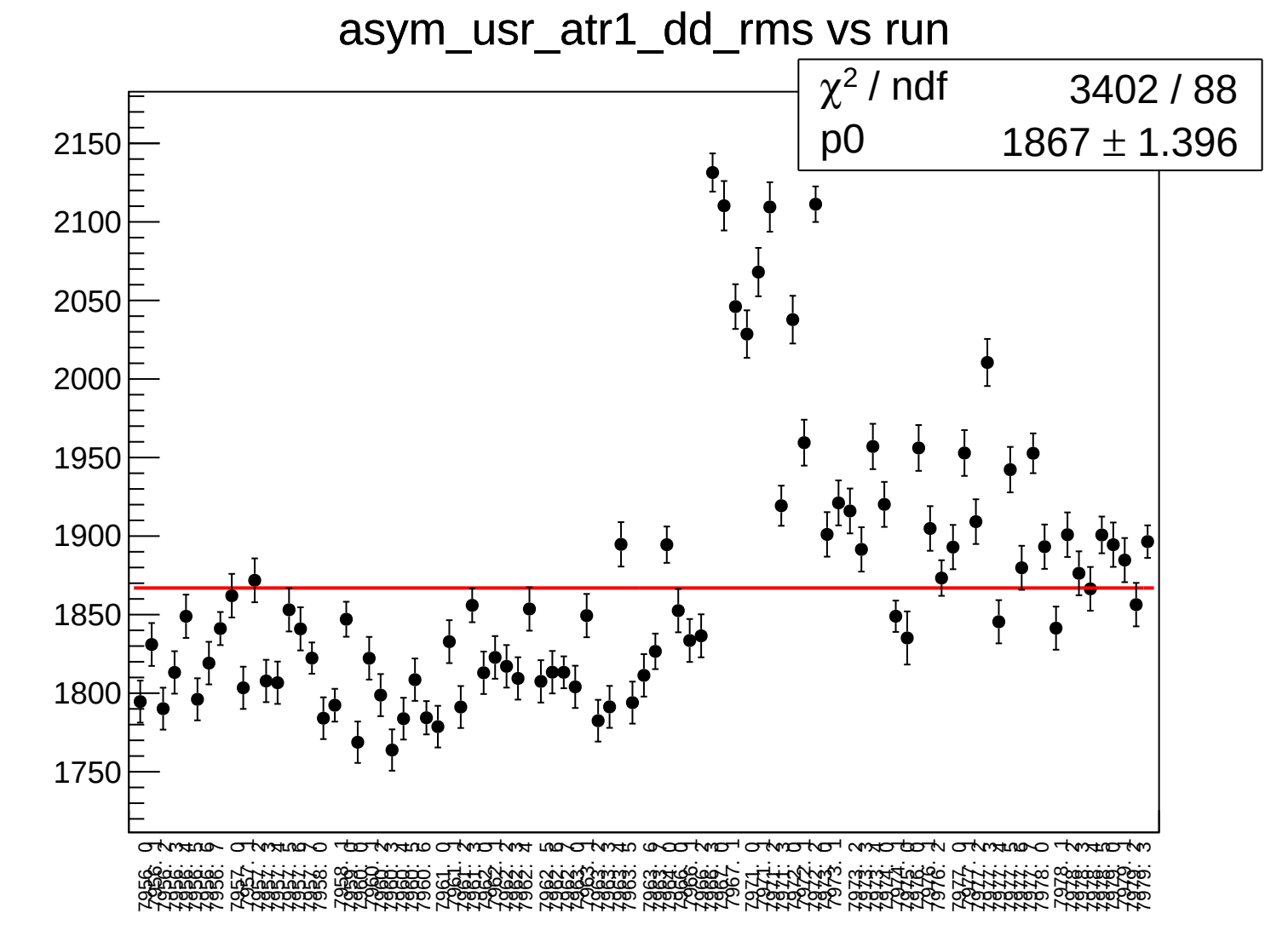

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 347.5 / 88
p0 1329 ± 0.9934
1400
1380
1360
1340
1320
1300
1280

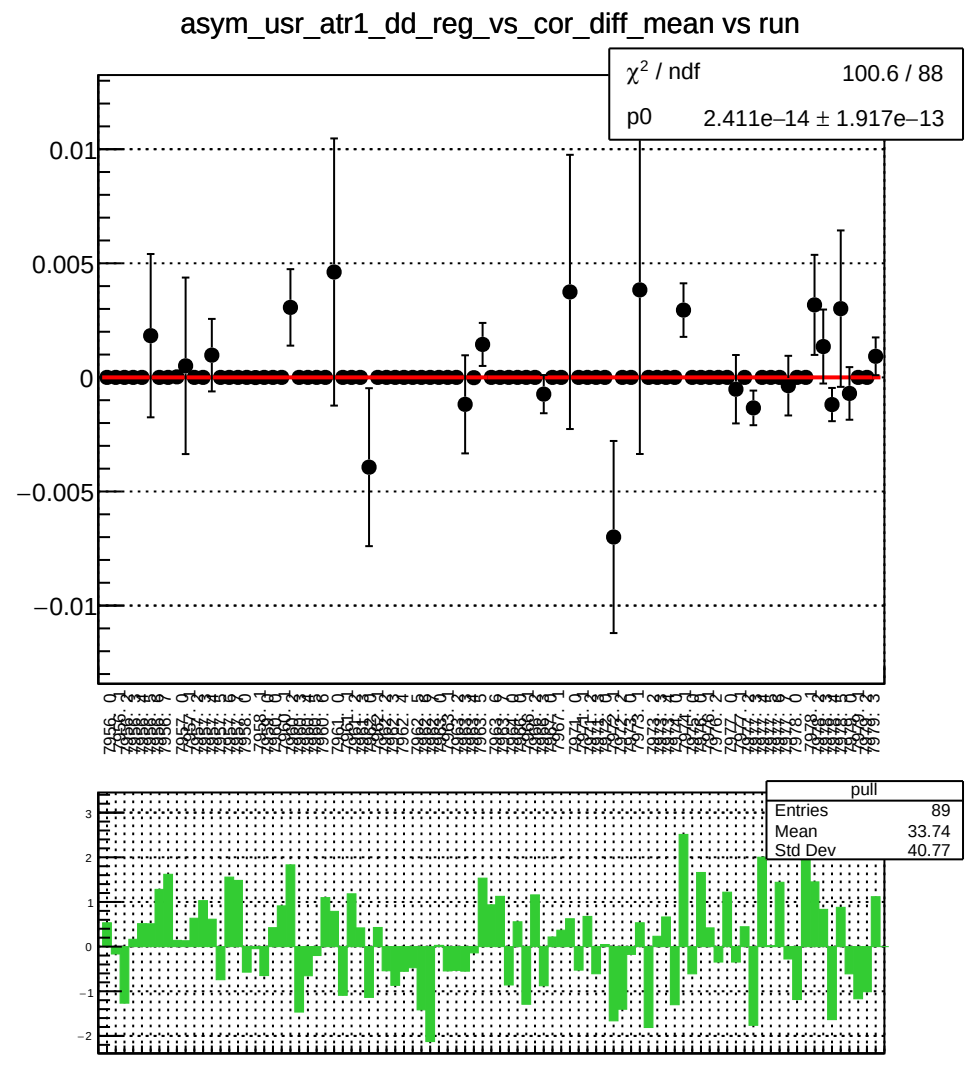

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 113 / 88
p0 −810.1± 1442
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 354.6
Std Dev 0
pull1D
Entries 89
Mean −0.01144
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

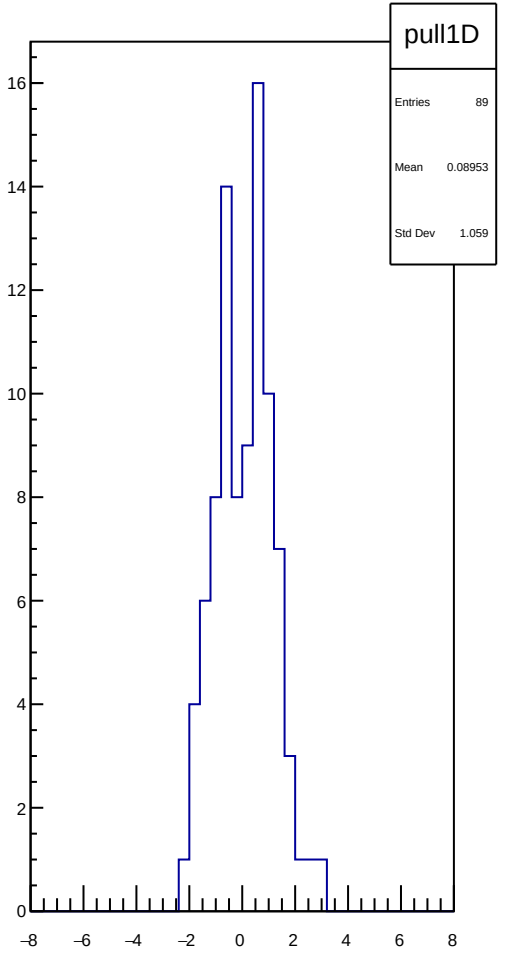

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.011e+04 / 88
p0 1360 ± 1.019
1700
1600
1500
1400
1300
1200

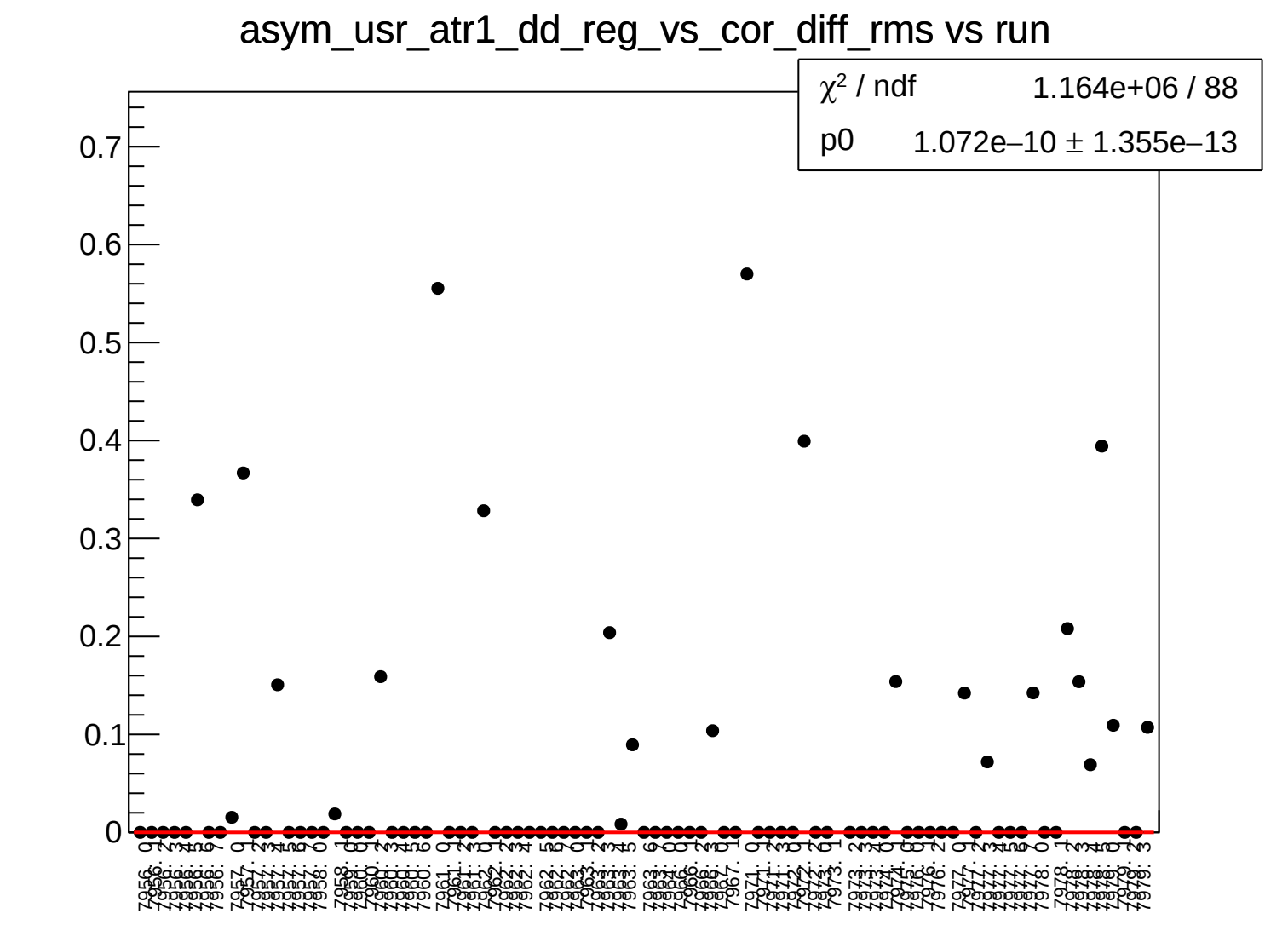

asym_usr_atr1_dd_mean vs run
χ² / ndf 80.9 / 88
p0 1201 ± 1975
pull
Entries 89
Mean −39.86
Std Dev 0

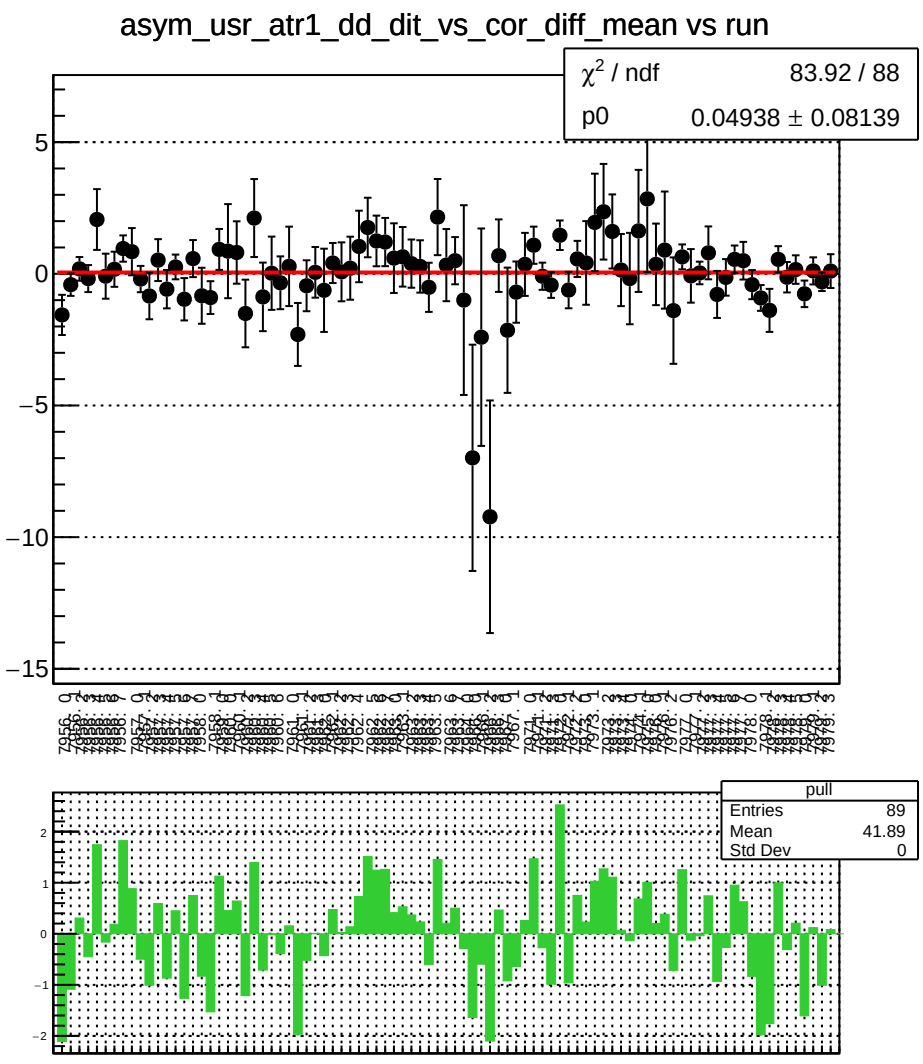

pull1D
Entries 89
Mean 0.0006438
Std Dev 0.9534

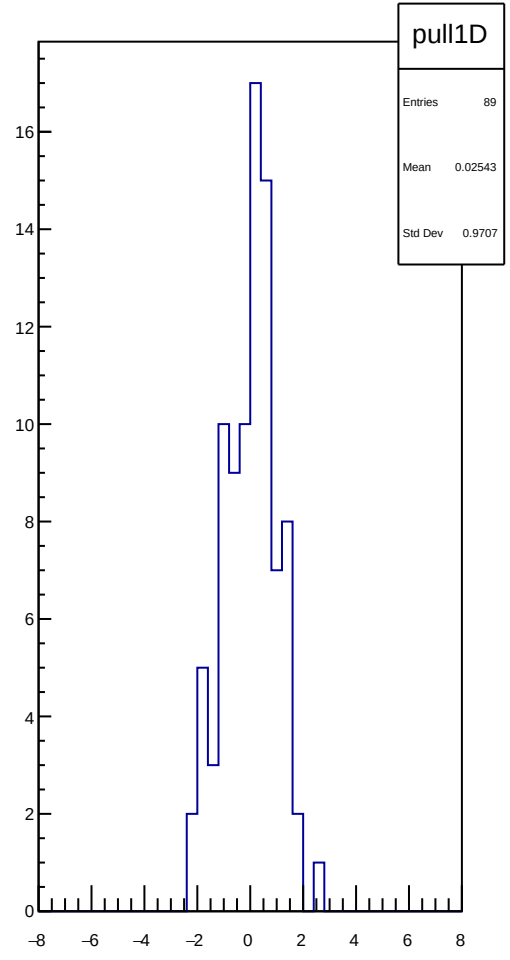

asym_usr_atr1_dd_rms vs run
χ² / ndf 3402 / 88
p0 1867 ± 1.396
2150
2100
2050
2000
1950
1900
1850
1800
1750

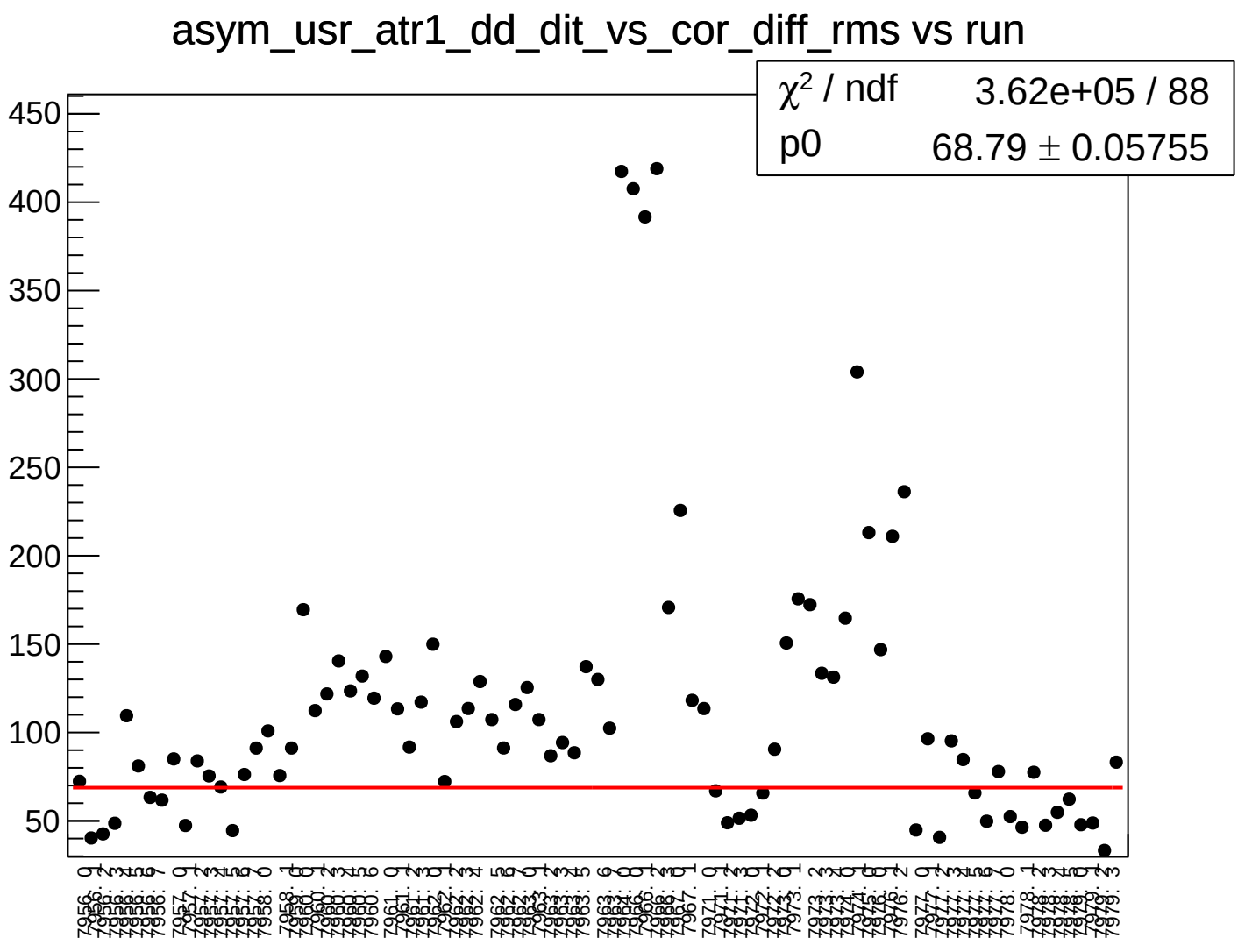

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 88
p0 2.411e−14 ± 1.917e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 33.74
Std Dev 40.77
3
2
1
0
−1
−2

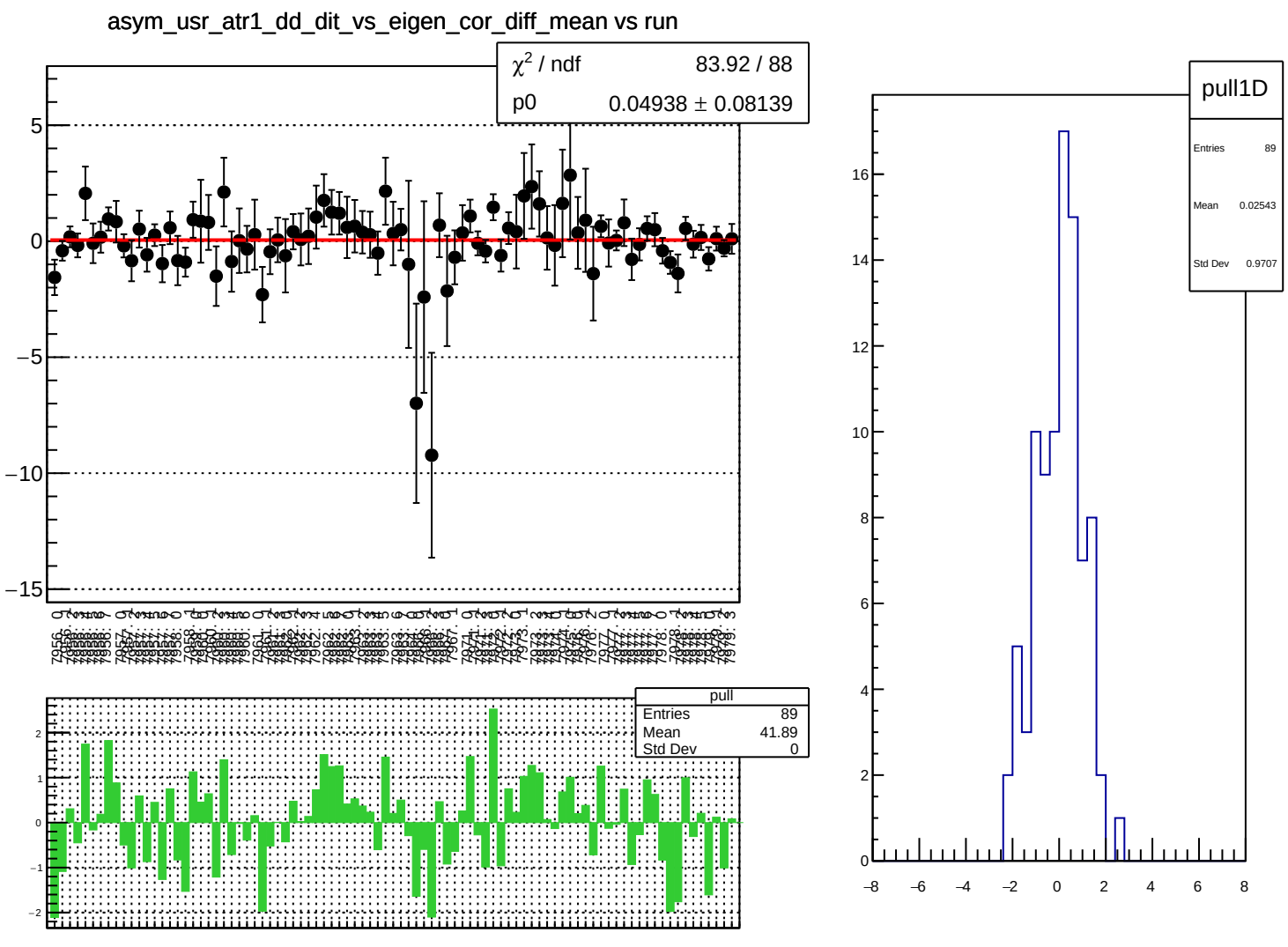

pull1D
Entries 89
Mean 0.08953
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

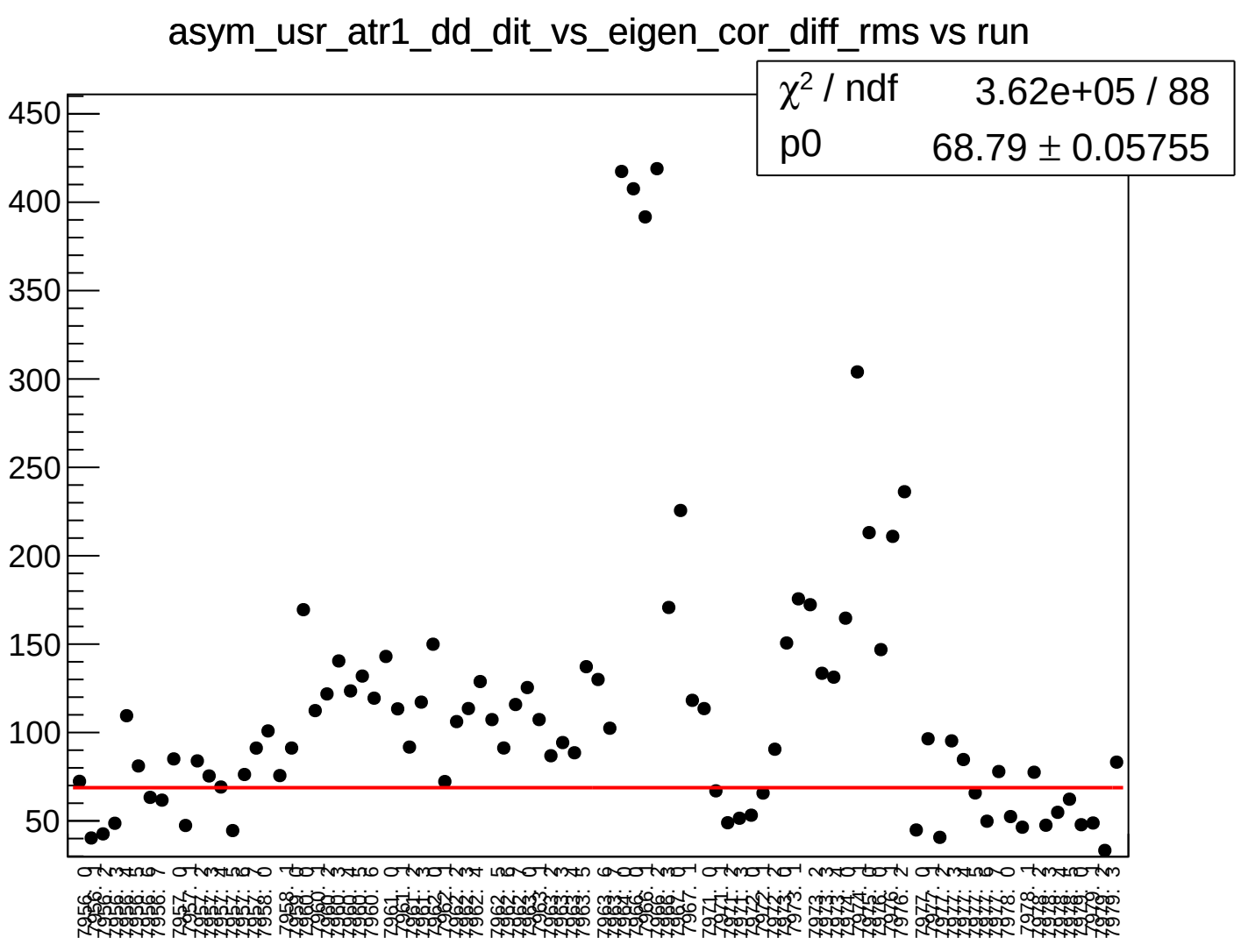

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.164e+06 / 88
p0 1.072e−10 ± 1.355e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

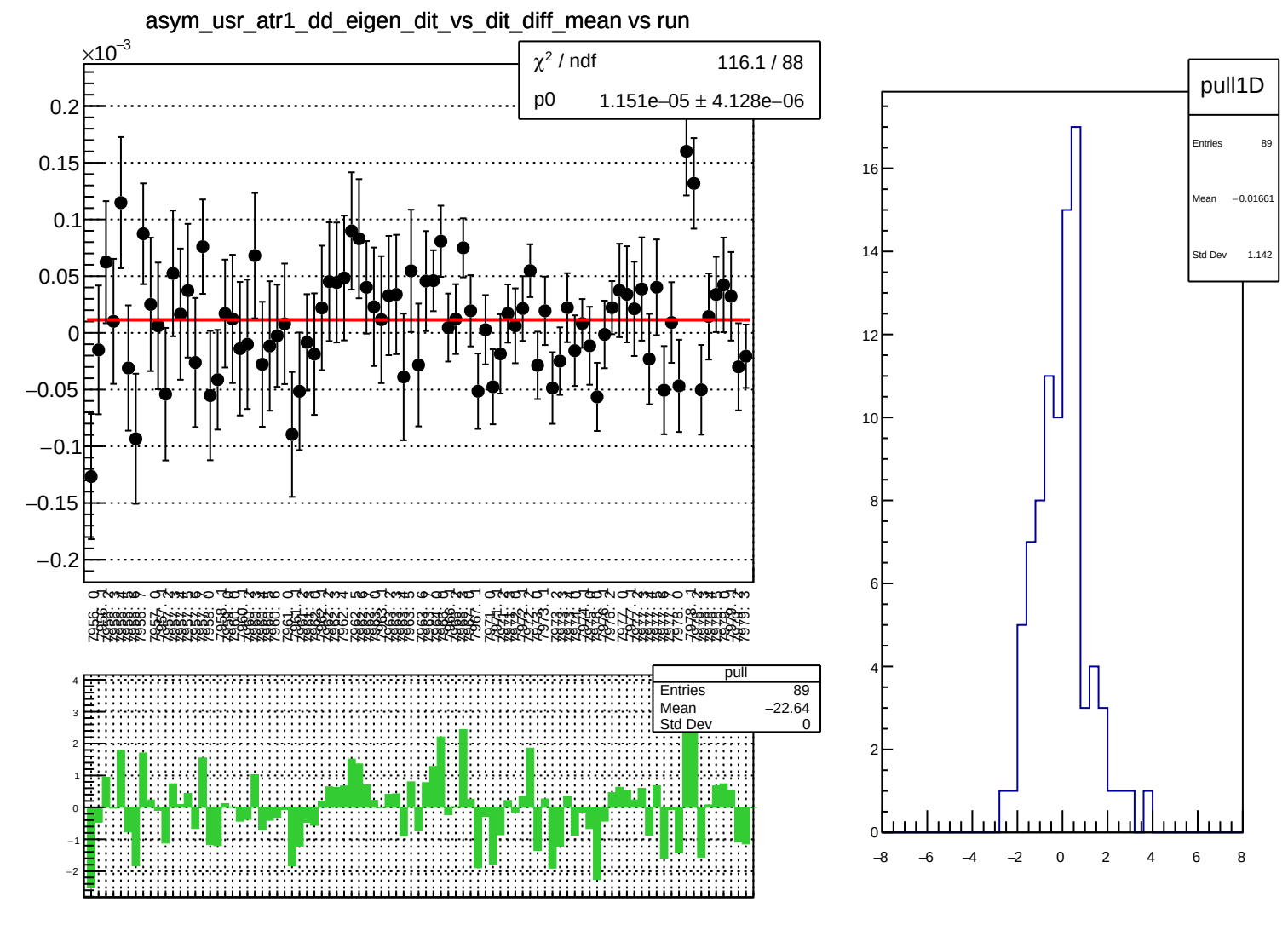

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.92 / 88
p0 0.04938 ± 0.08139
pull
Entries 89
Mean 41.89
Std Dev 0

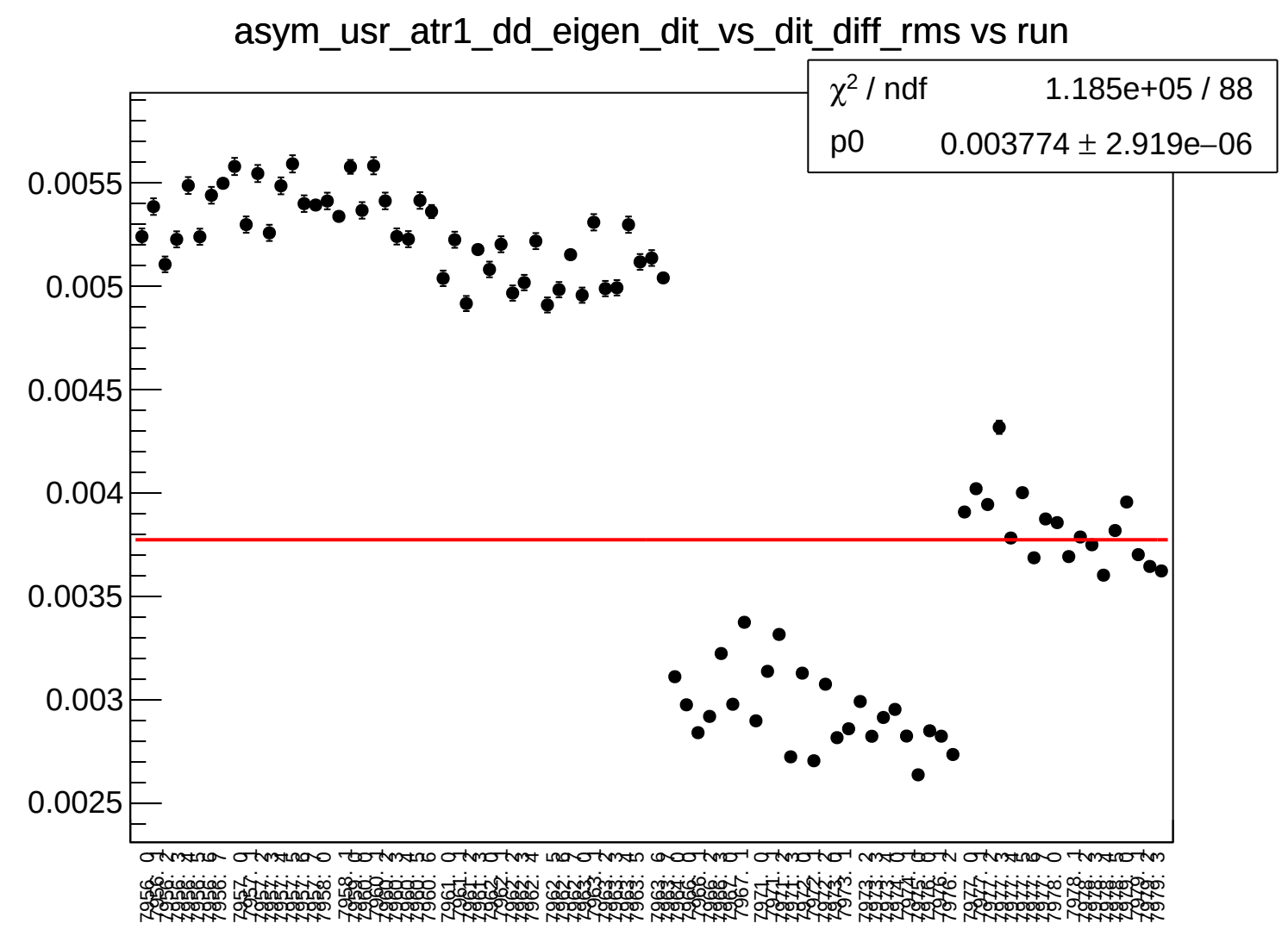

pull1D
Entries 89
Mean 0.02543
Std Dev 0.9707

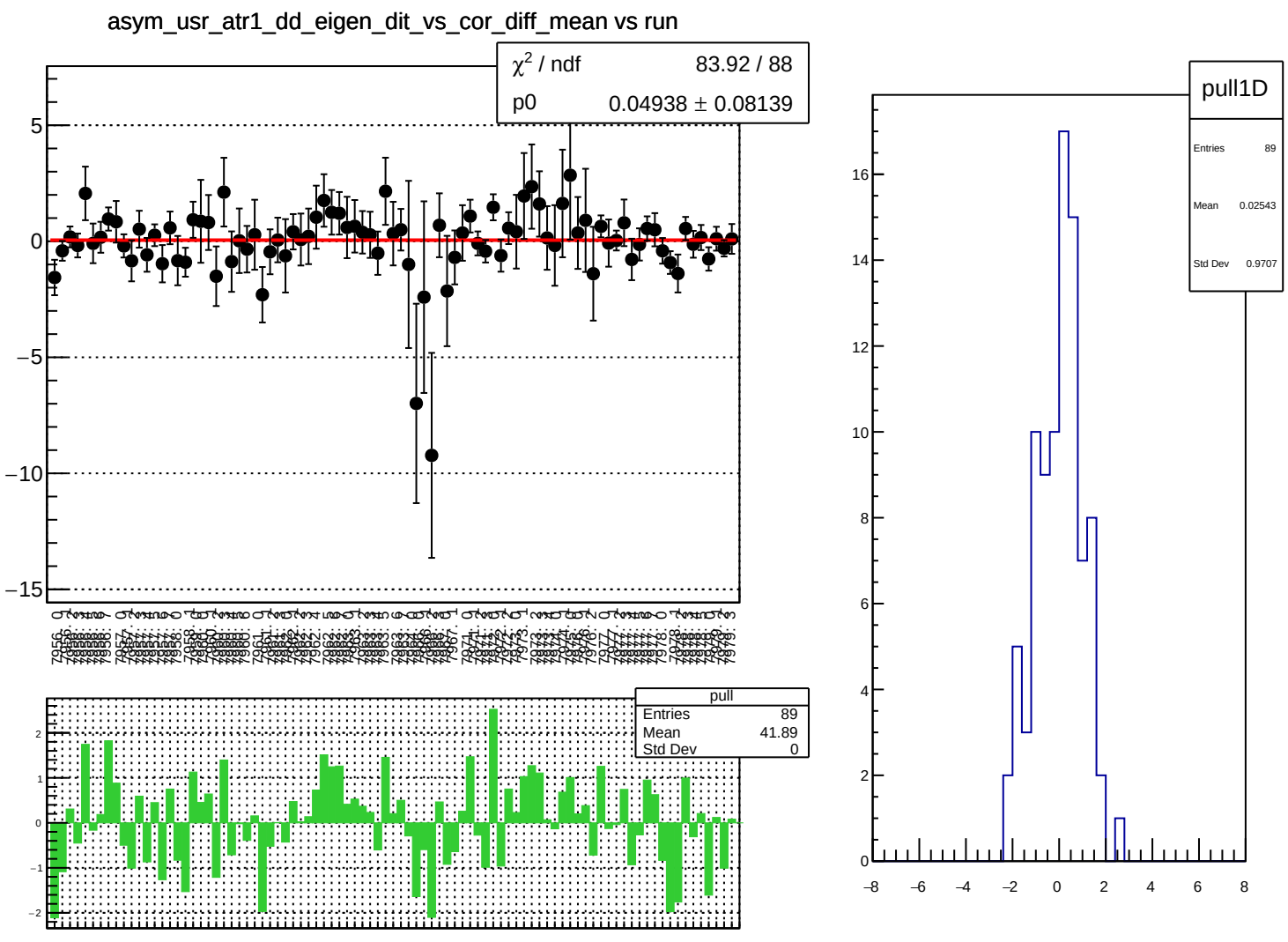

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.62e+05 / 88
p0 68.79 ± 0.05755
450
400
350
300
250
200
150
100
50

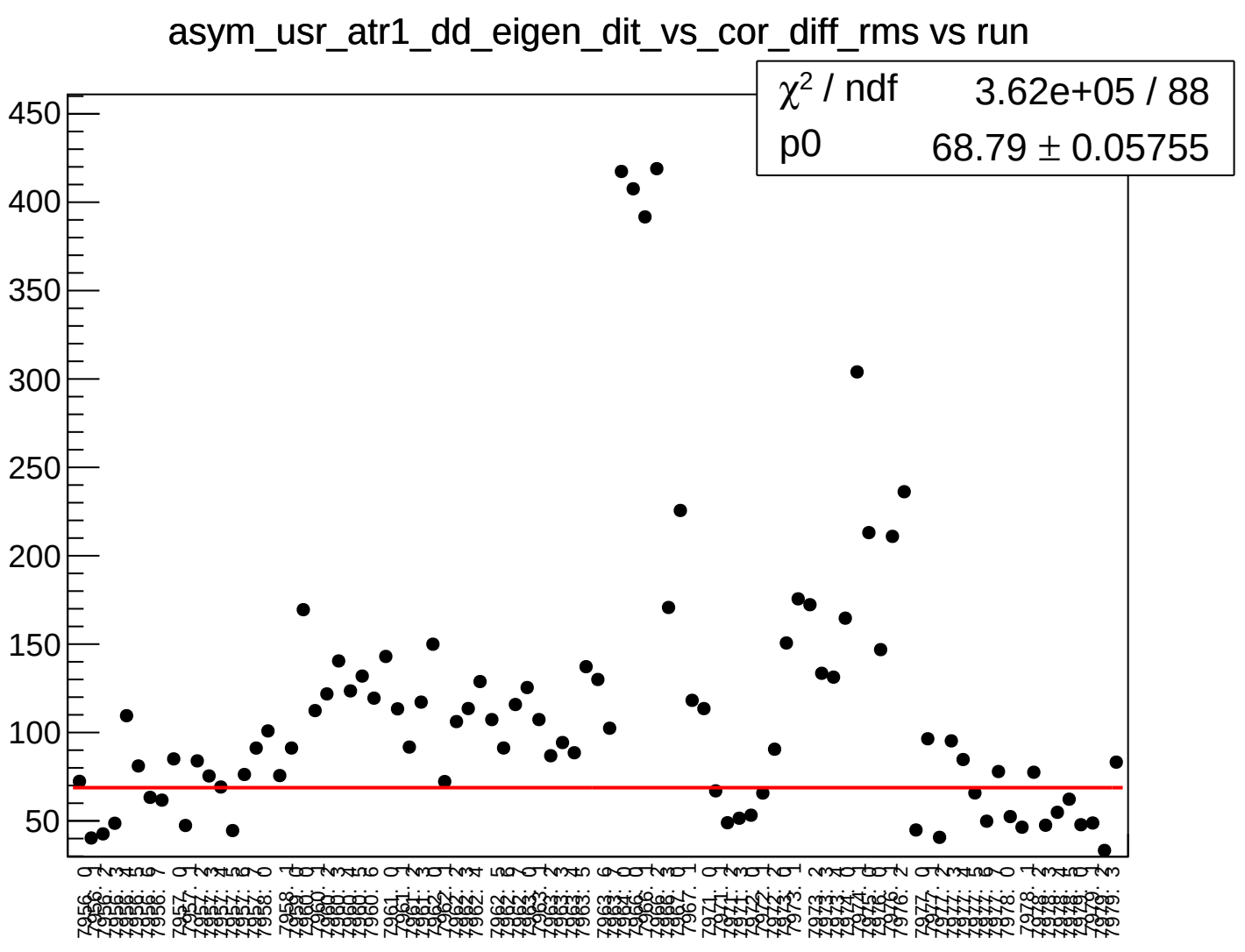

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.92 / 88
p0 0.04938 ± 0.08139
pull
Entries 89
Mean 41.89
Std Dev 0
pull1D
Entries 89
Mean 0.02543
Std Dev 0.9707

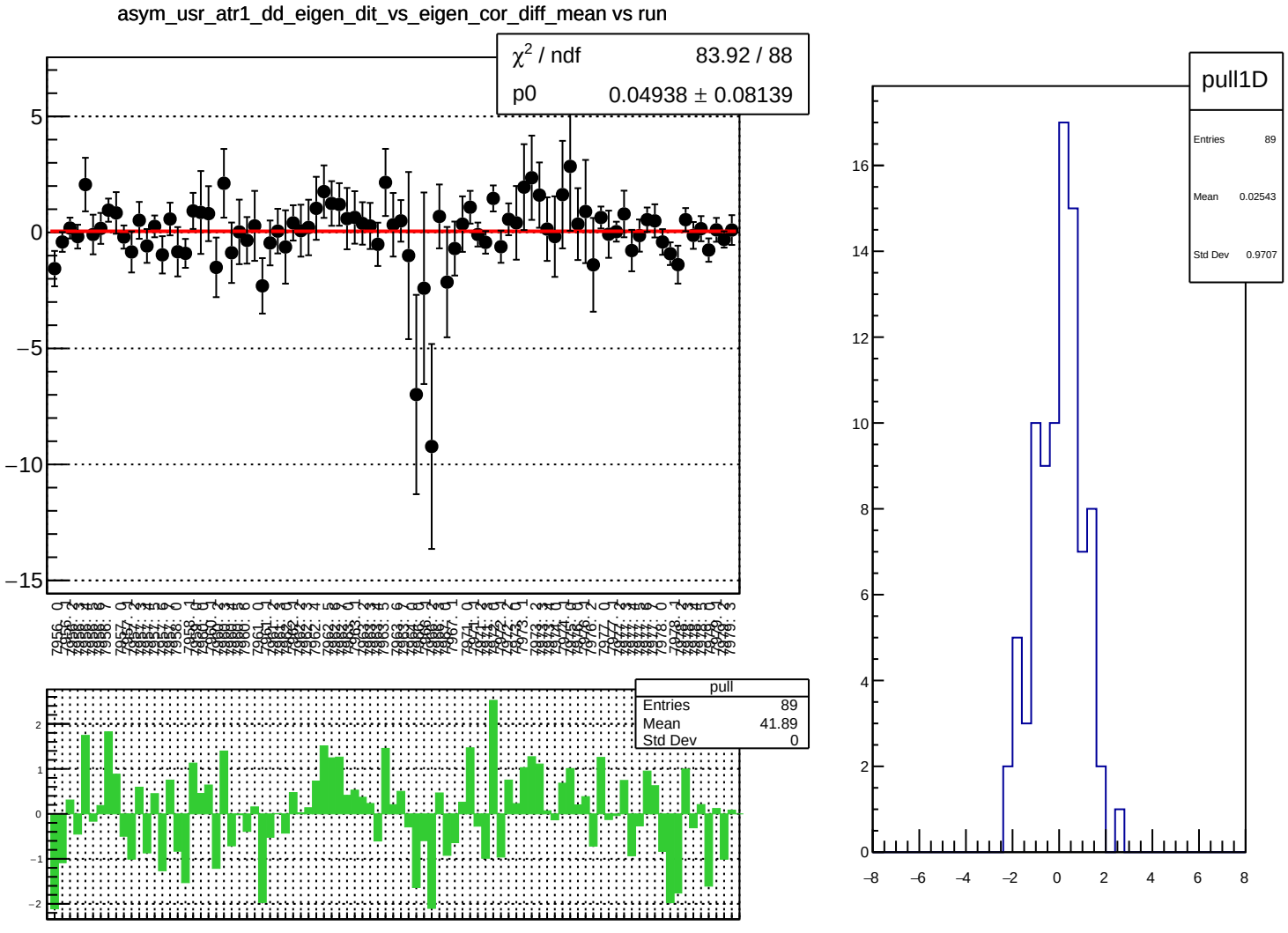

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.62e+05 / 88
p0 68.79 ± 0.05755
450
400
350
300
250
200
150
100
50

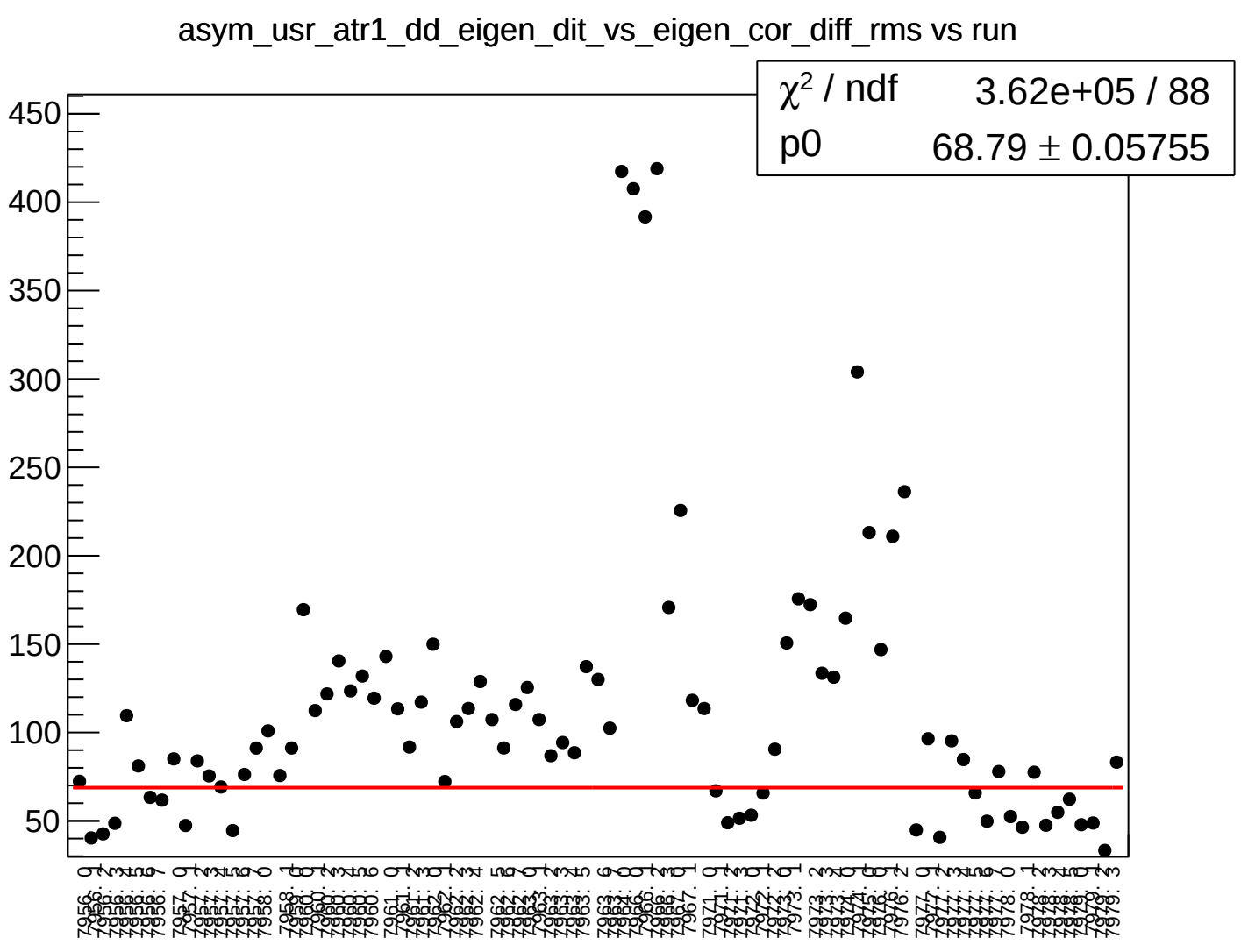

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116.1 / 88
p0 1.151e−05 ± 4.128e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 89
Mean −22.64
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01661
Std Dev 1.142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

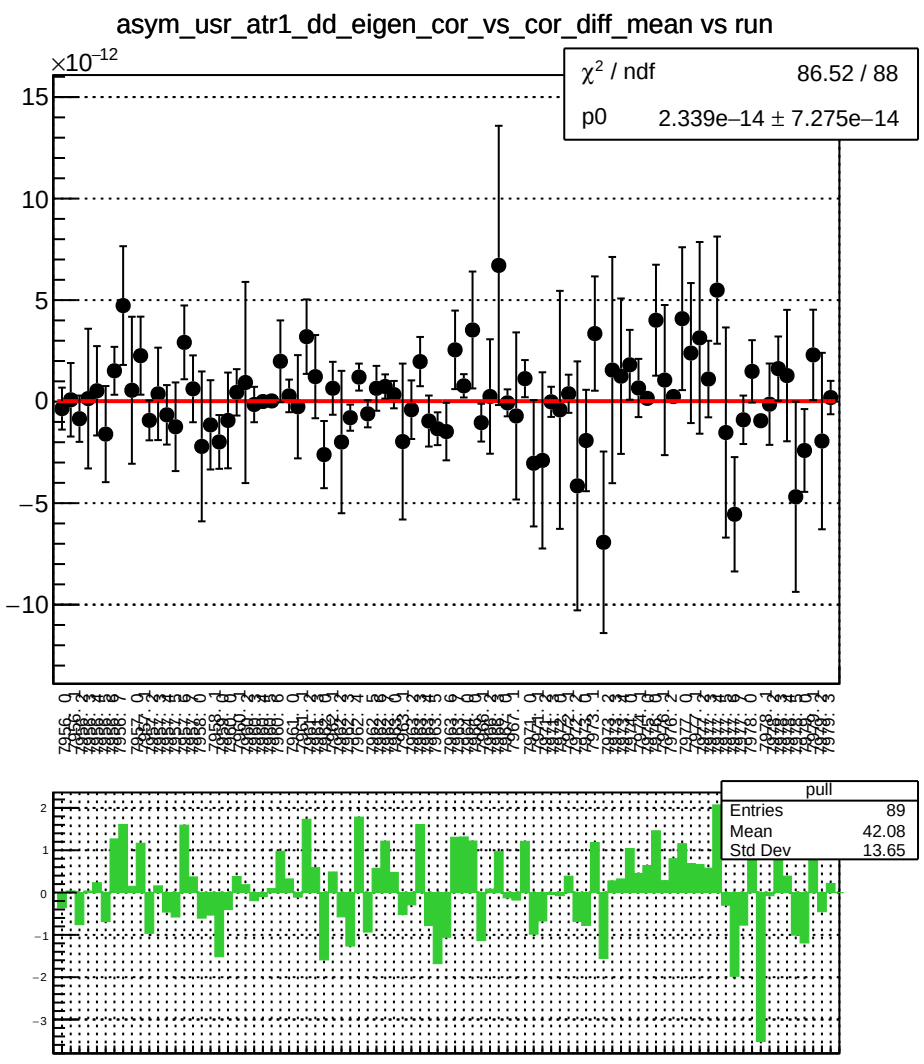

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.185e+05 / 88
p0 0.003774 ± 2.919e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

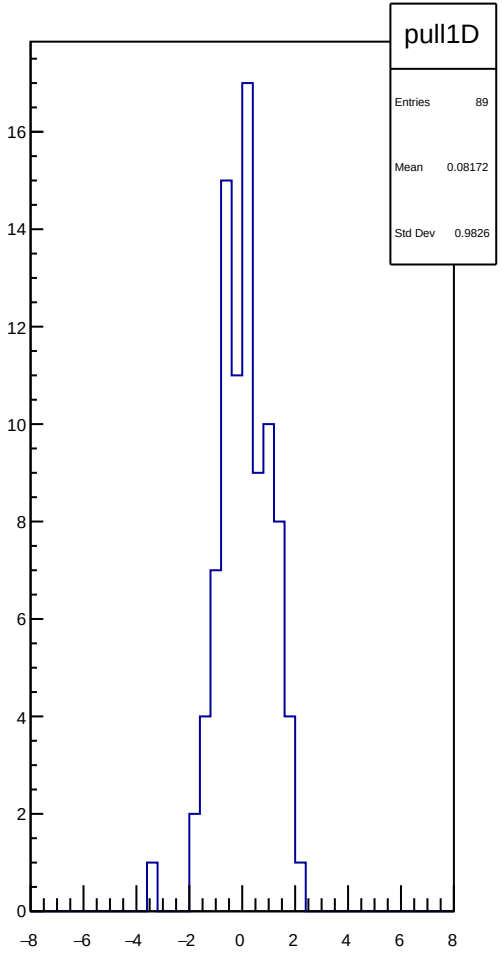

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.92 / 88
p0 0.04938 ± 0.08139
pull
Entries 89
Mean 41.89
Std Dev 0
pull1D
Entries 89
Mean 0.02543
Std Dev 0.9707

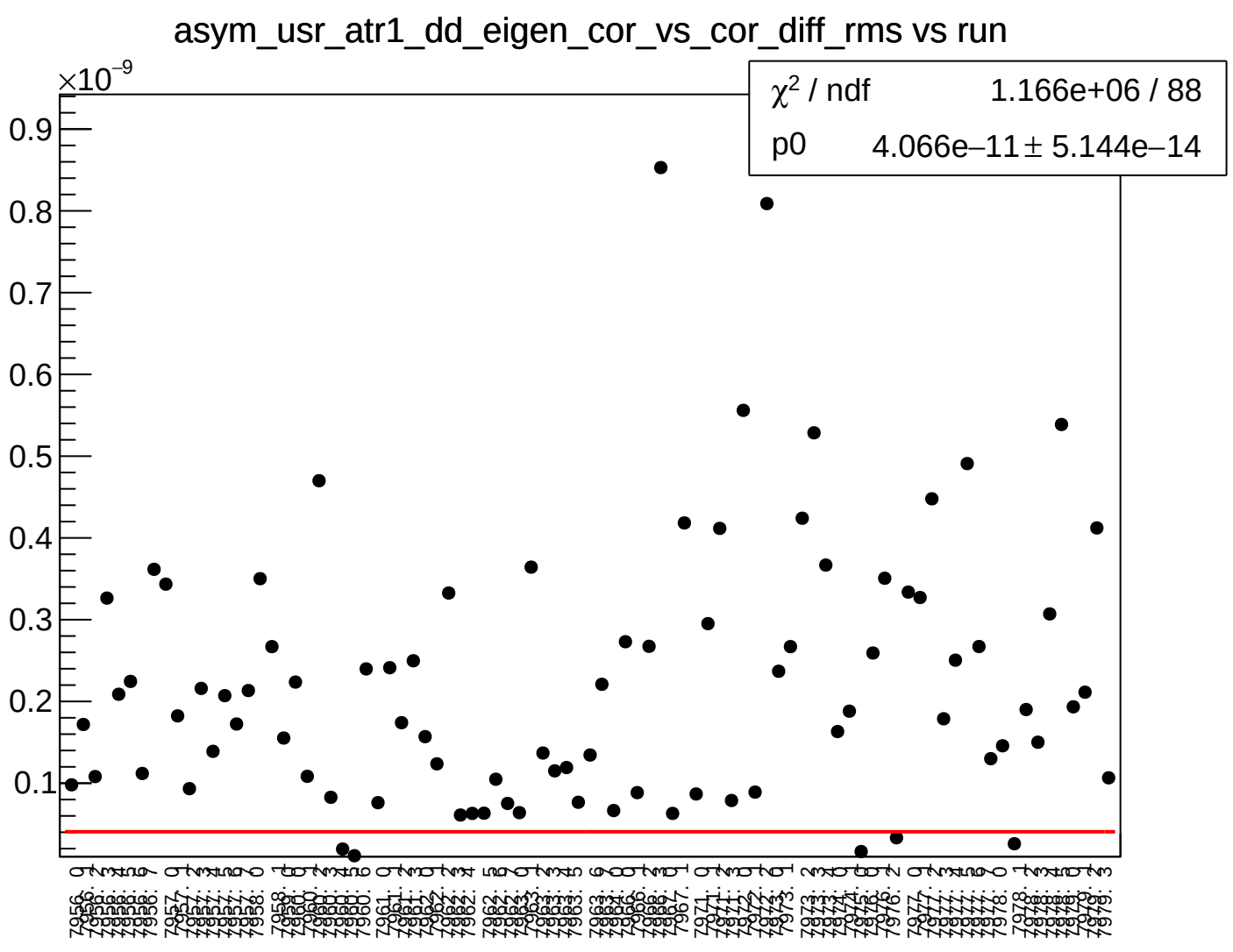

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.62e+05 / 88
p0 68.79 ± 0.05755
450
400
350
300
250
200
150
100
50

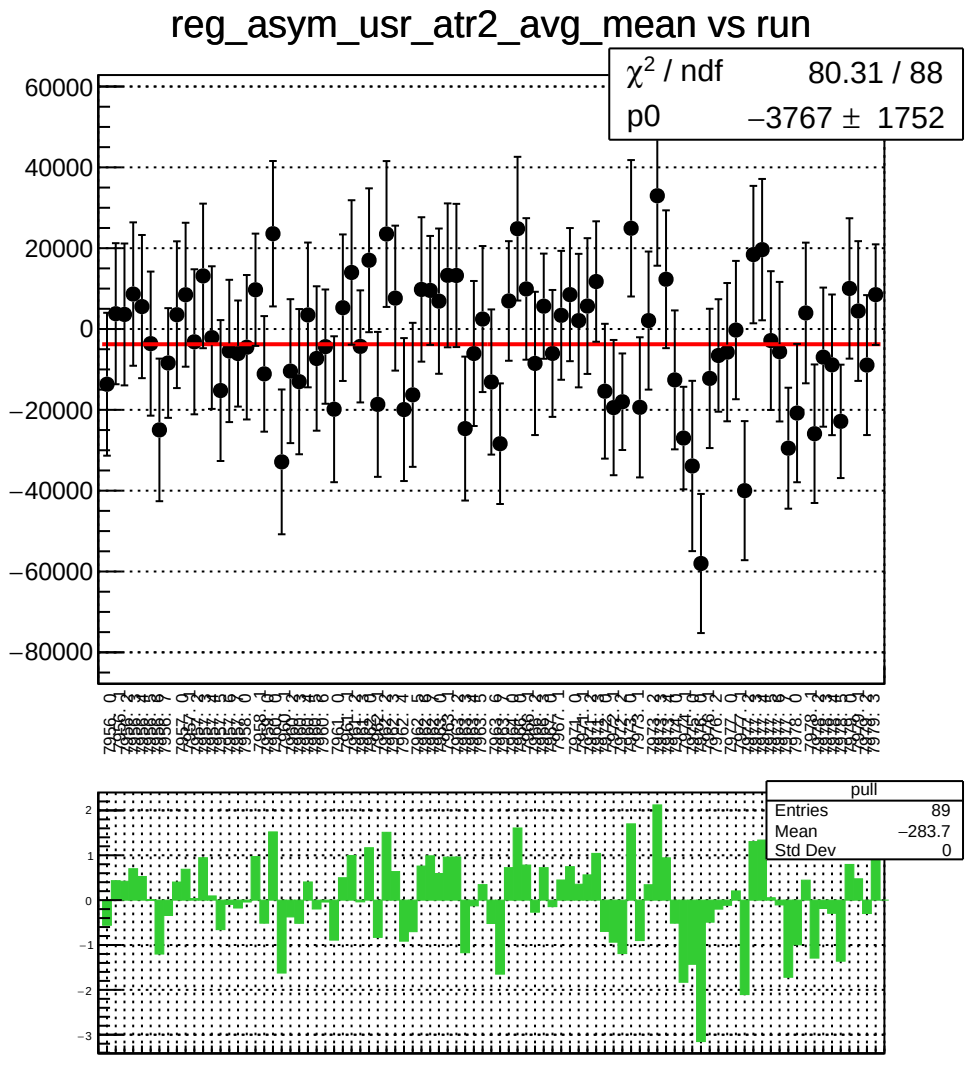

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.92 / 88
p0 0.04938 ± 0.08139
pull
Entries 89
Mean 41.89
Std Dev 0
pull1D
Entries 89
Mean 0.02543
Std Dev 0.9707

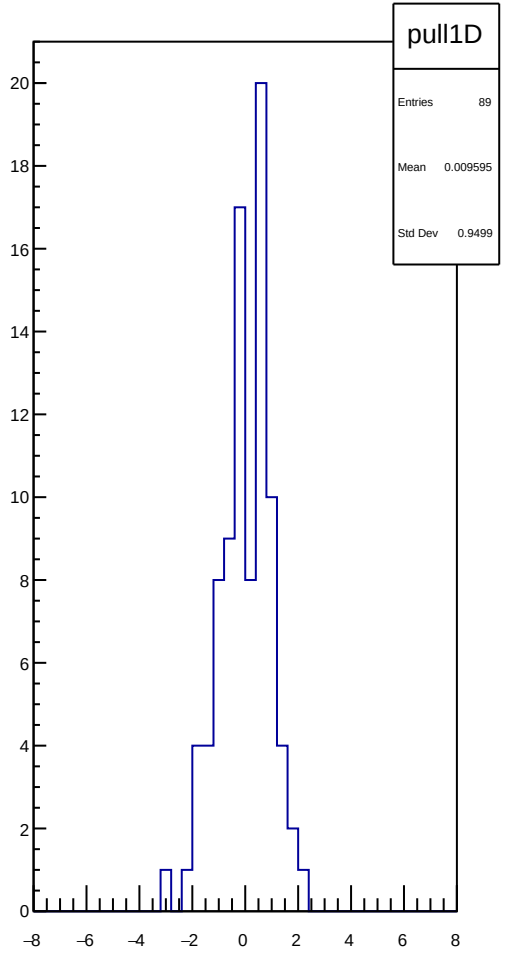

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 3.62e+05 / 88
p0 68.79 ± 0.05755
450
400
350
300
250
200
150
100
50

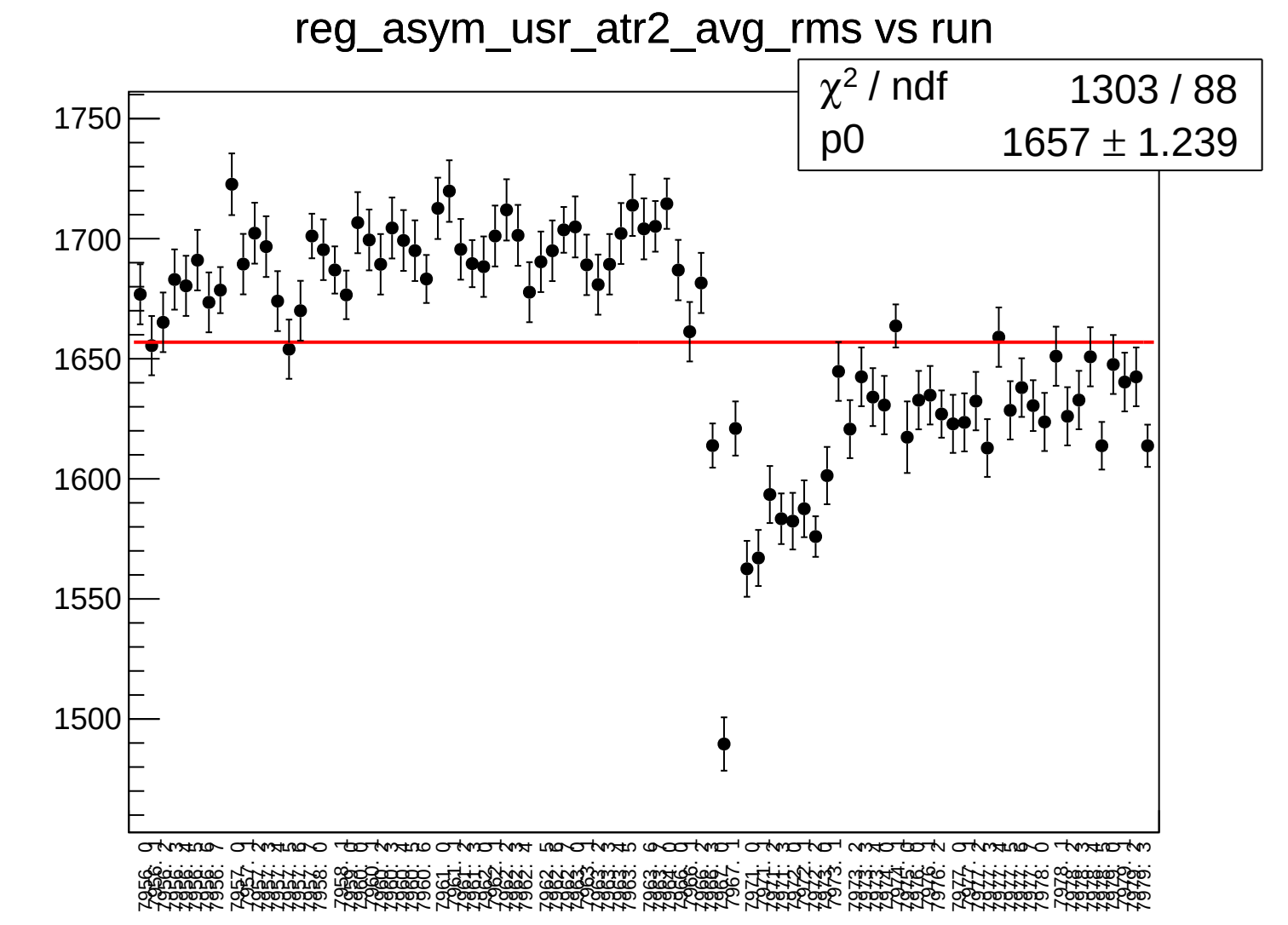

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.52 / 88
p0 2.339e−14 ± 7.275e−14
pull
Entries 89
Mean 42.08
Std Dev 13.65

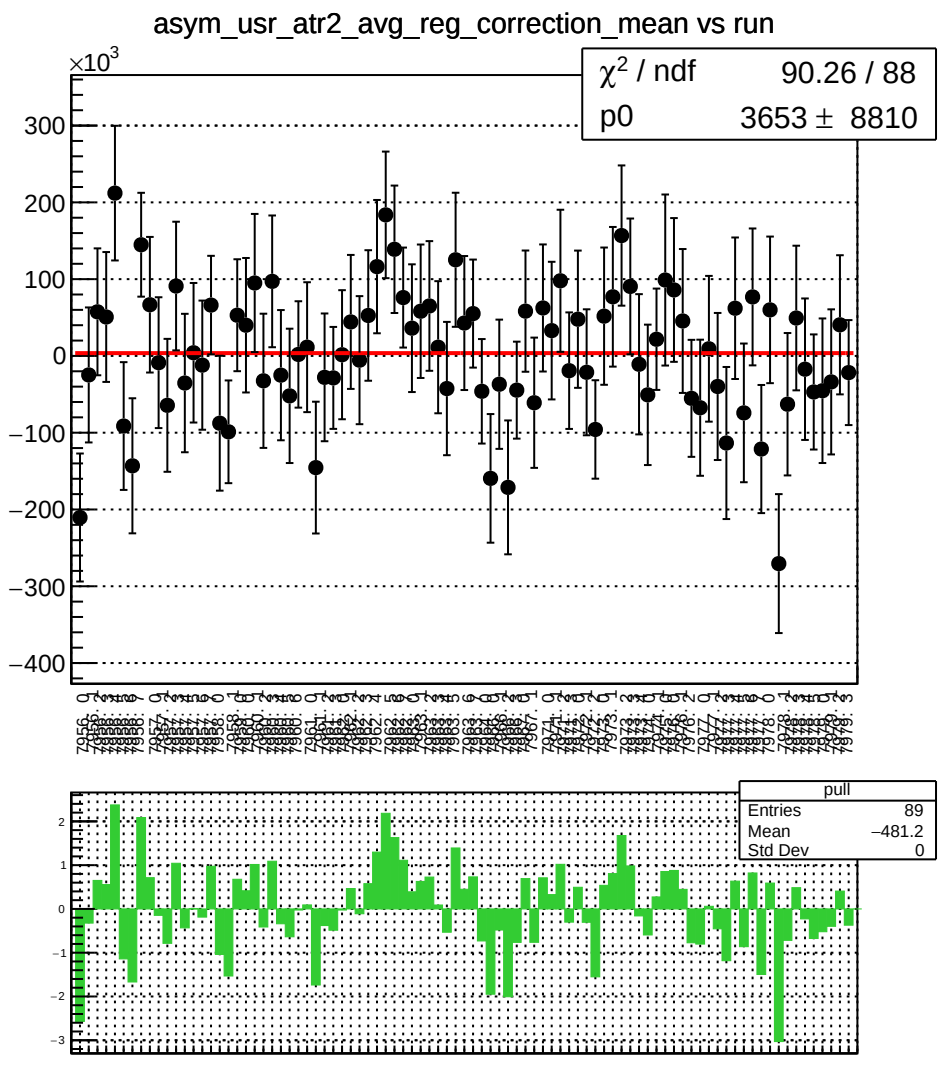

pull1D
Entries 89
Mean 0.08172
Std Dev 0.9826

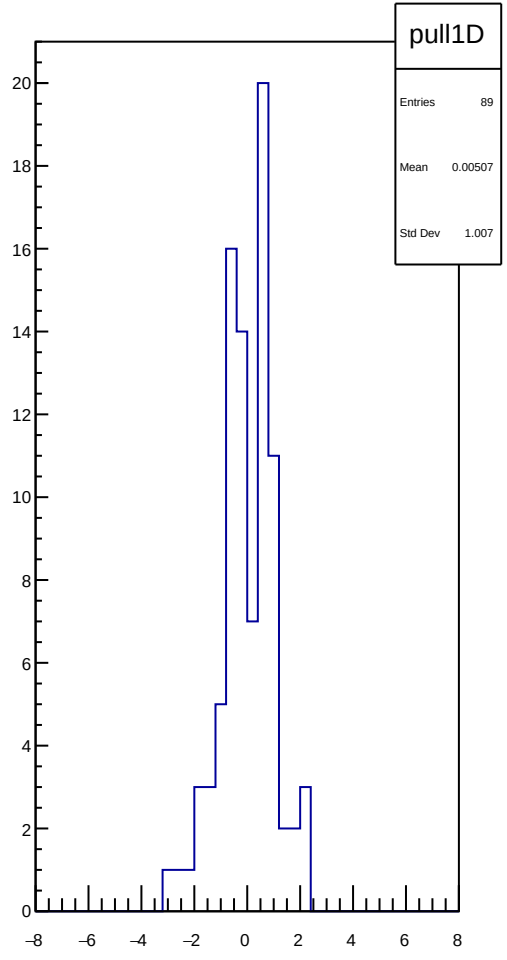

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.166e+06 / 88
p0 4.066e−11 ± 5.144e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

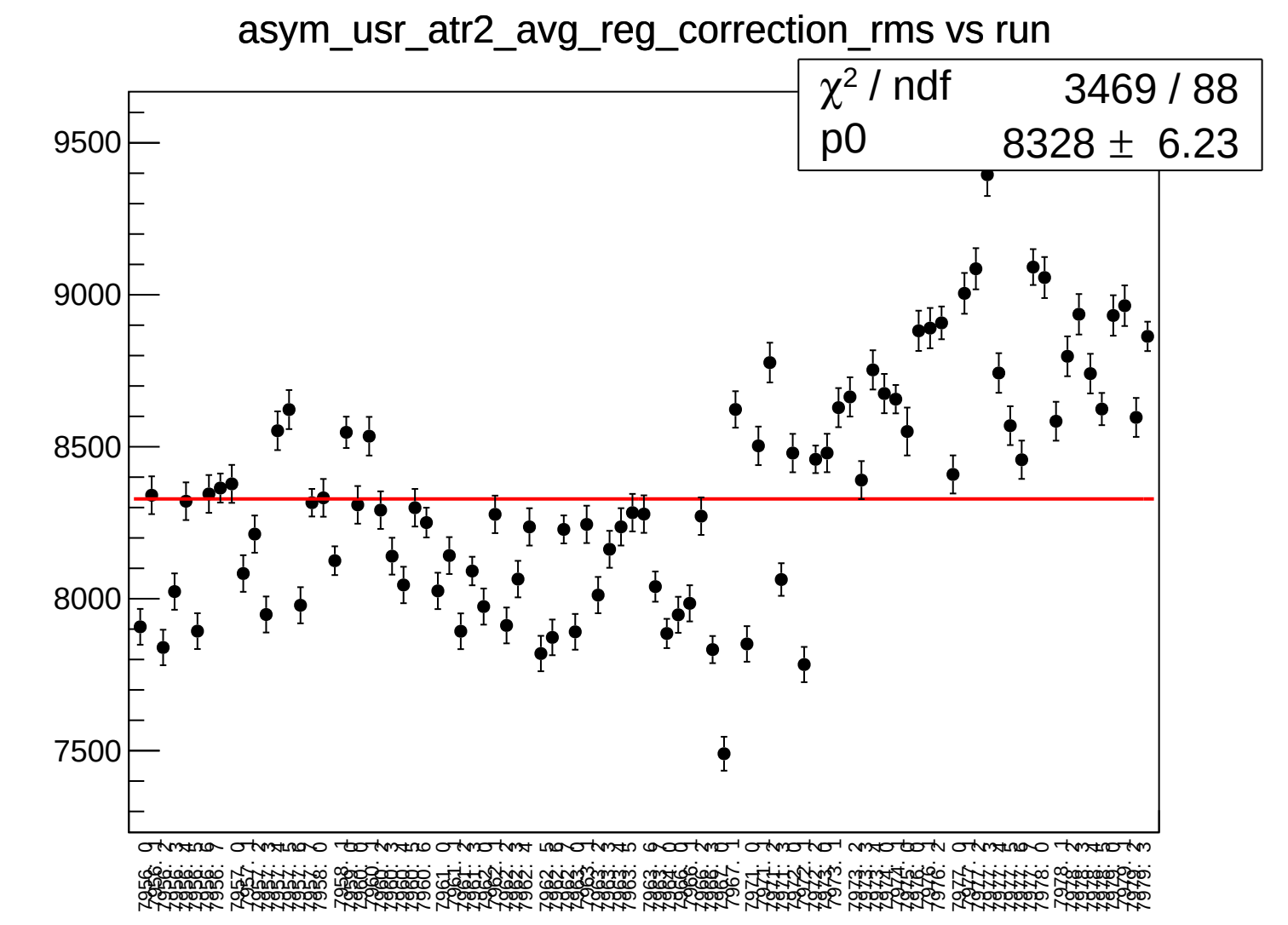

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.31 / 88
p0 −3767 ± 1752
pull
Entries 89
Mean −283.7
Std Dev 0

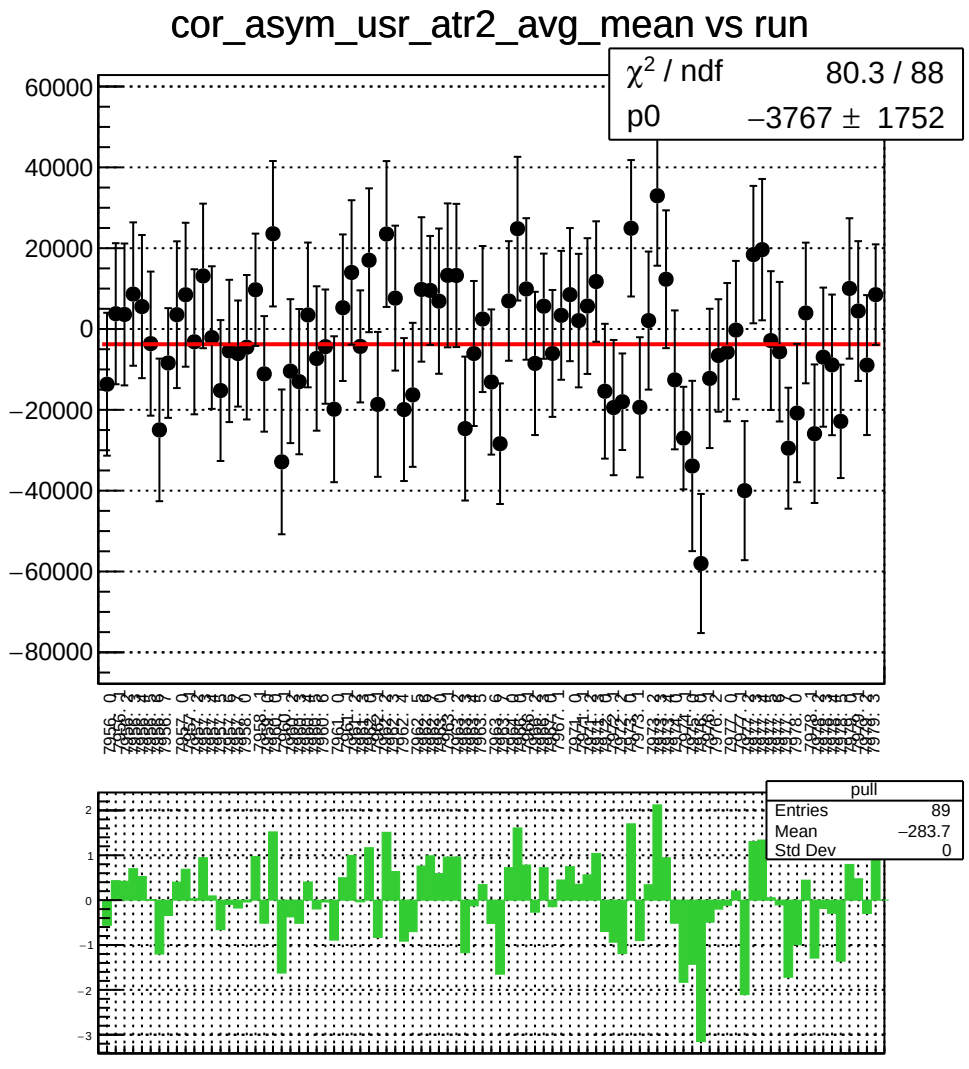

pull1D
Entries 89
Mean 0.009595
Std Dev 0.9499

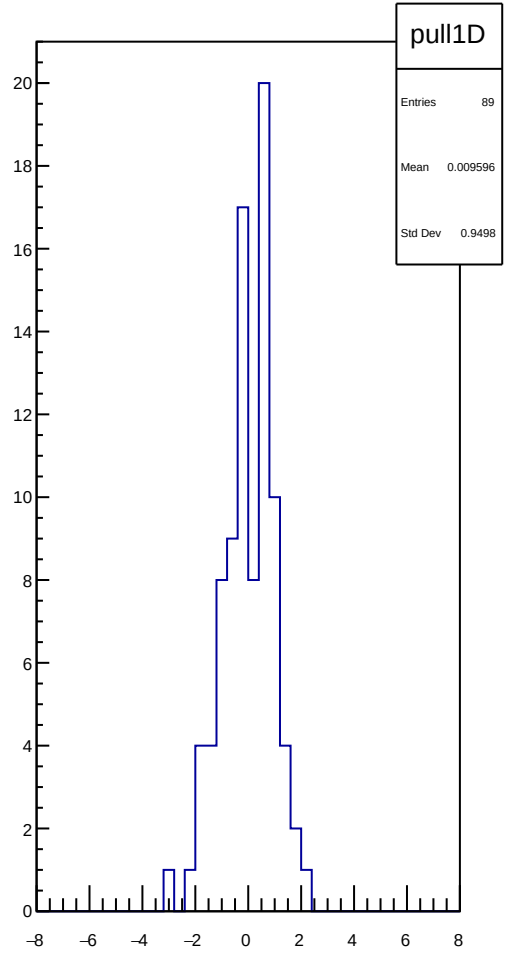

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 1303 / 88
p0 1657 ± 1.239
1750
1700
1650
1600
1550
1500

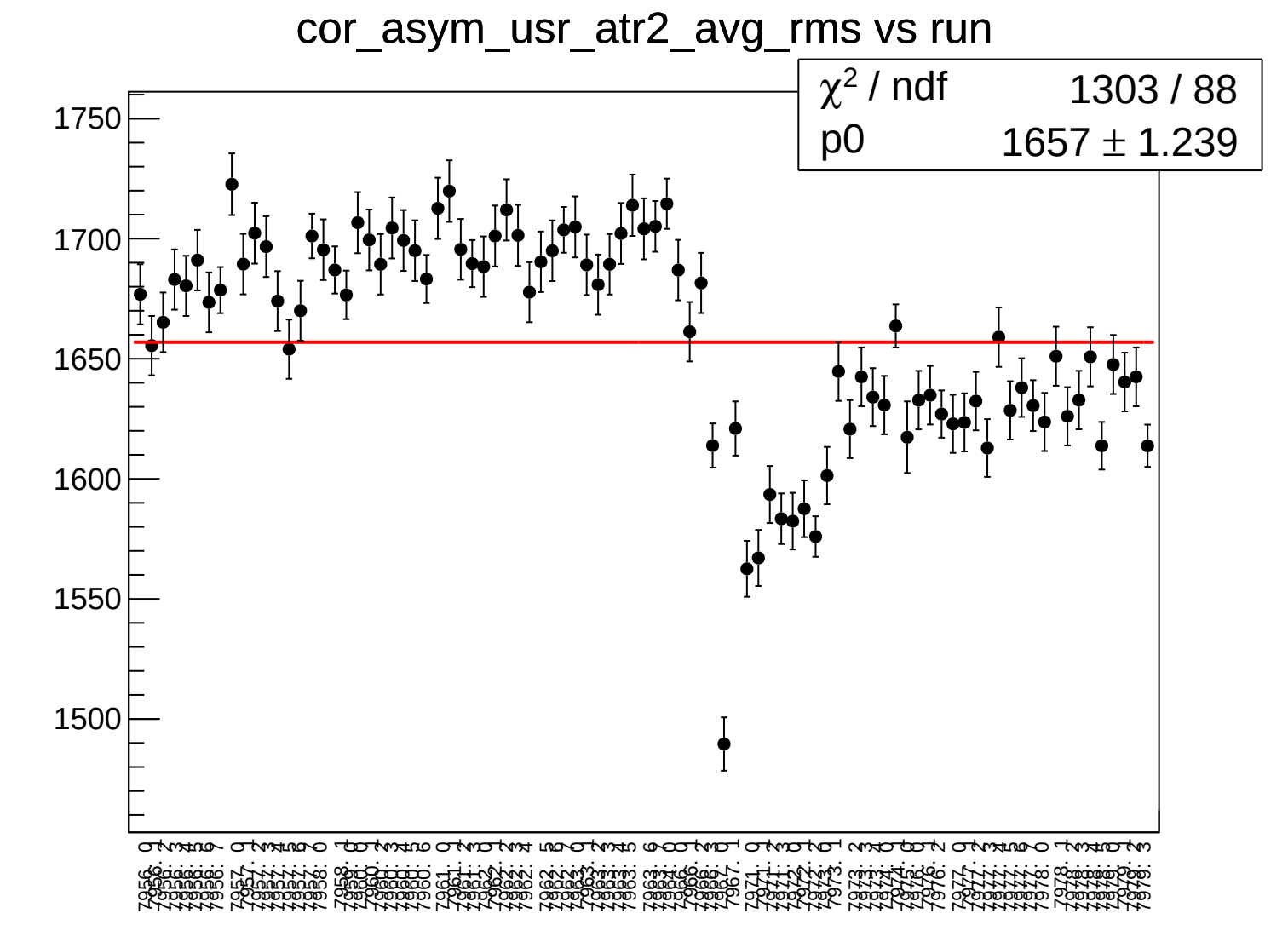

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.26 / 88
p0 3653 ± 8810
300
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean −481.2
Std Dev 0
2
1
0
−1
−2
−3

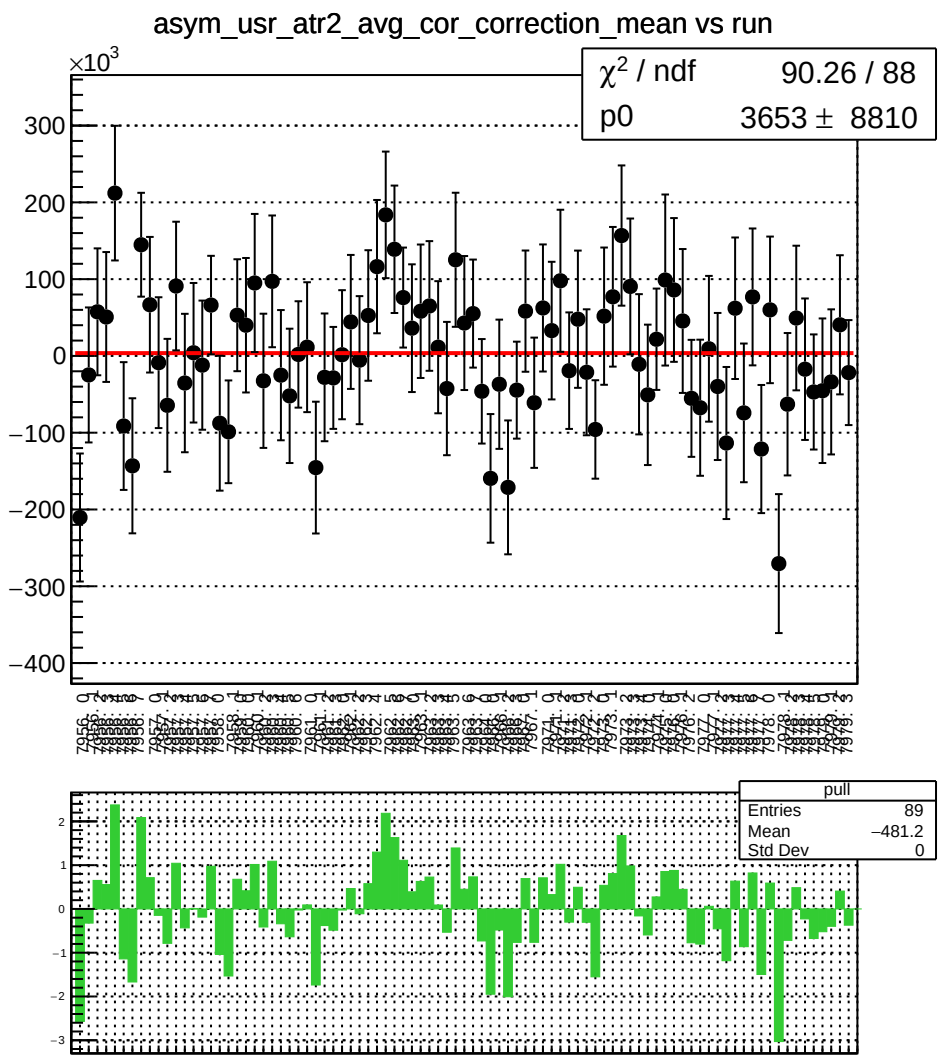

pull1D
Entries 89
Mean 0.00507
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

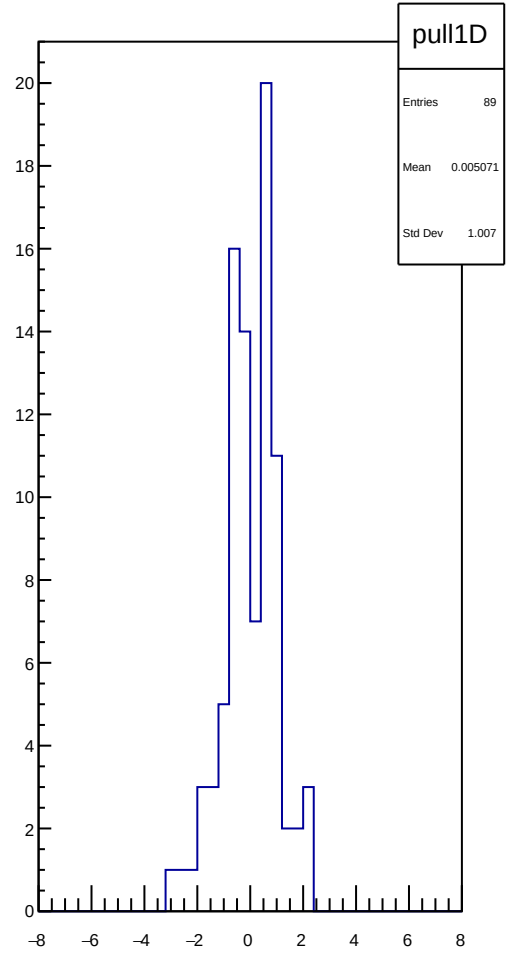

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 3469 / 88
p0 8328 ± 6.23
9500
9000
8500
8000
7500

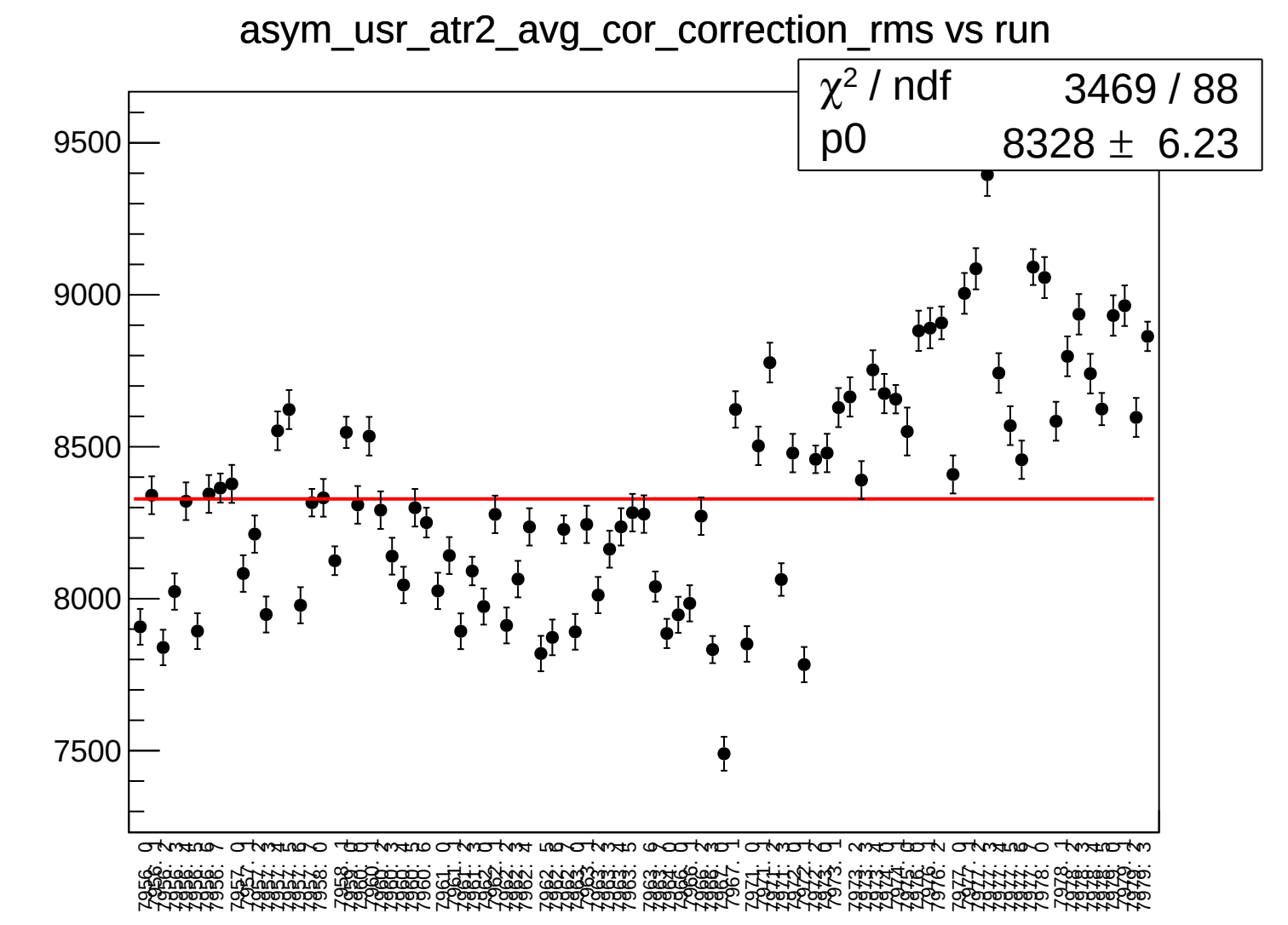

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.3 / 88
p0 −3767 ± 1752
pull
Entries 89
Mean −283.7
Std Dev 0

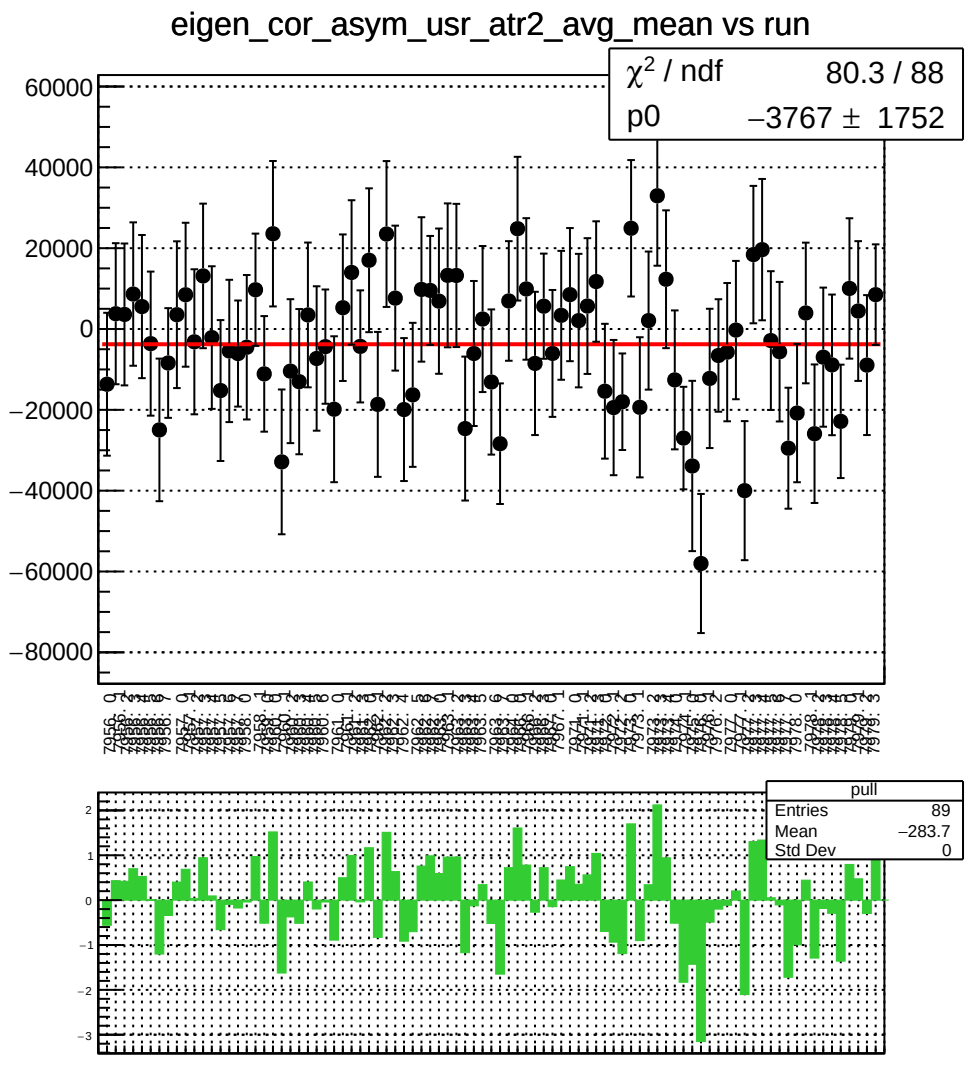

pull1D
Entries 89
Mean 0.009596
Std Dev 0.9498

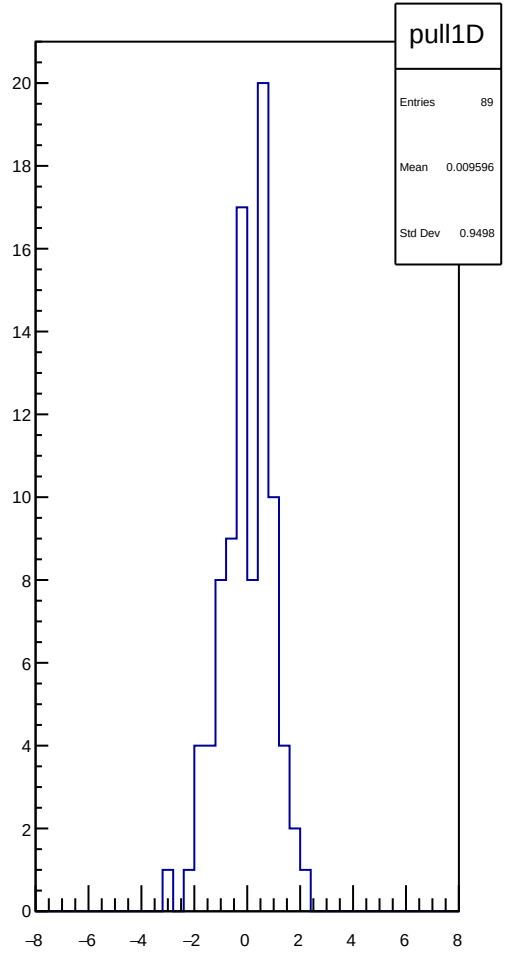

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1303 / 88
p0 1657 ± 1.239
1750
1700
1650
1600
1550
1500

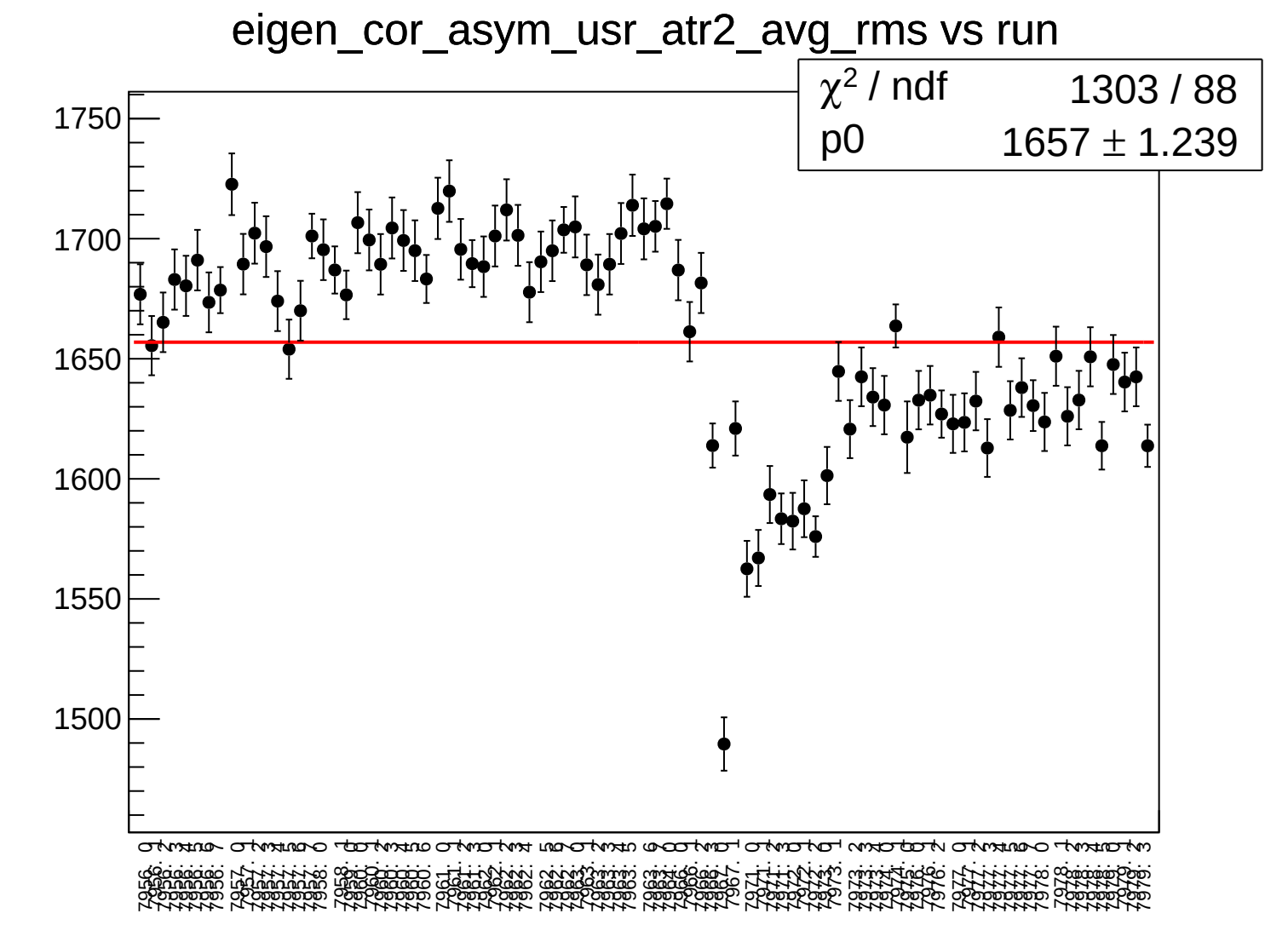

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 90.26 / 88
p0 3653 ± 8810
300
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean −481.2
Std Dev 0
2
1
0
−1
−2
−3

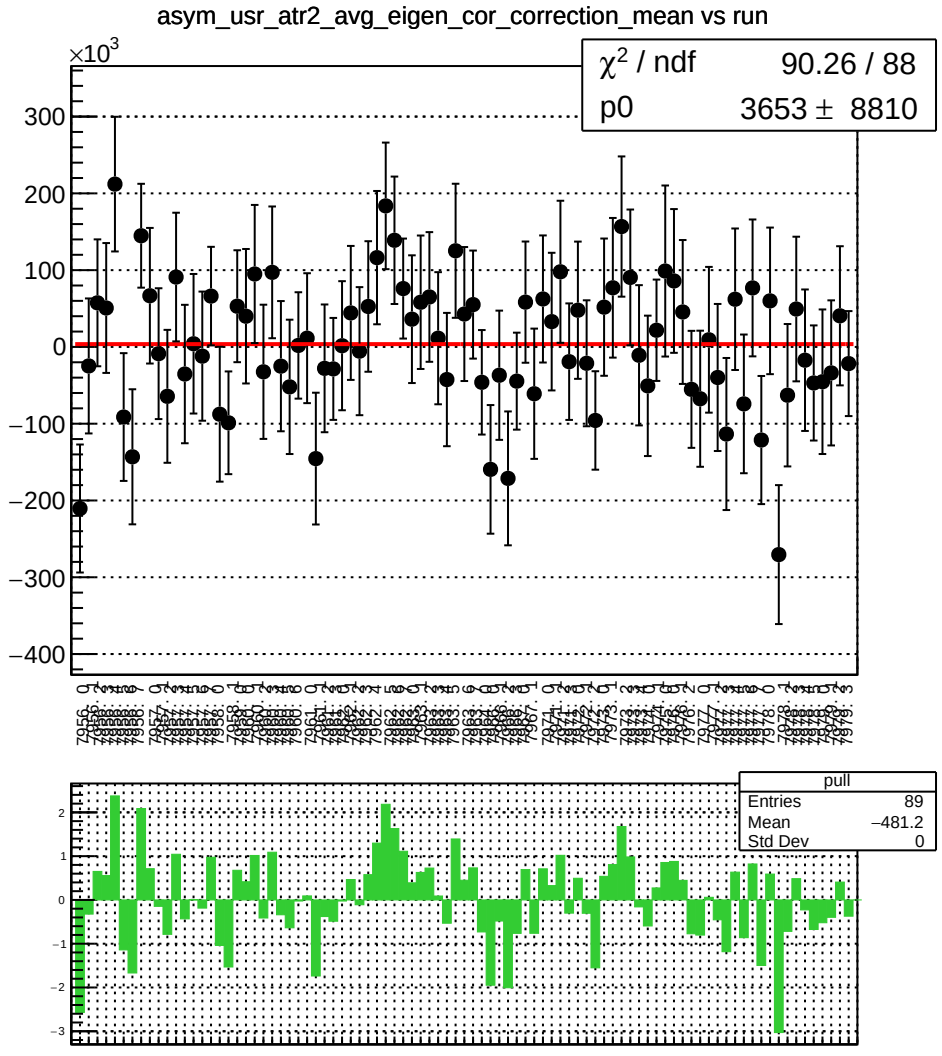

pull1D
Entries 89
Mean 0.005071
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

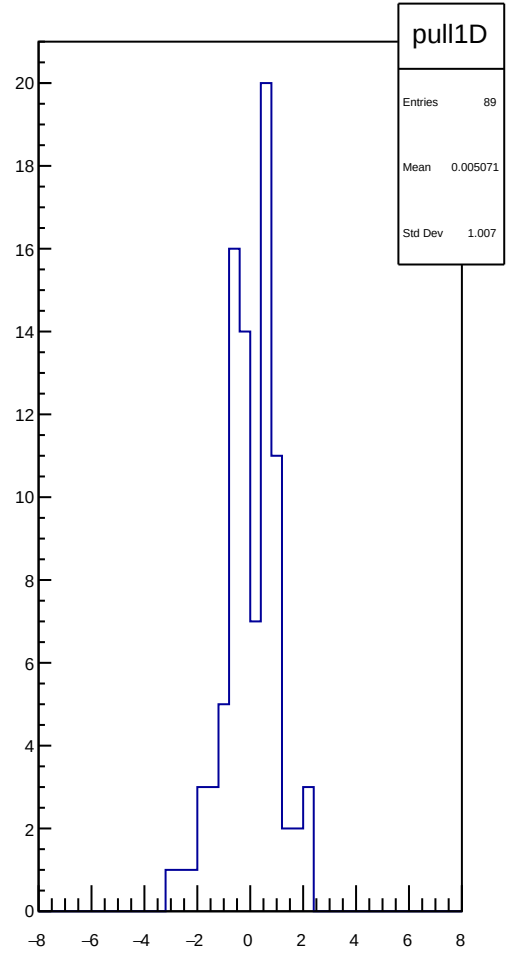

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 3469 / 88
p0 8328 ± 6.23
9500
9000
8500
8000
7500

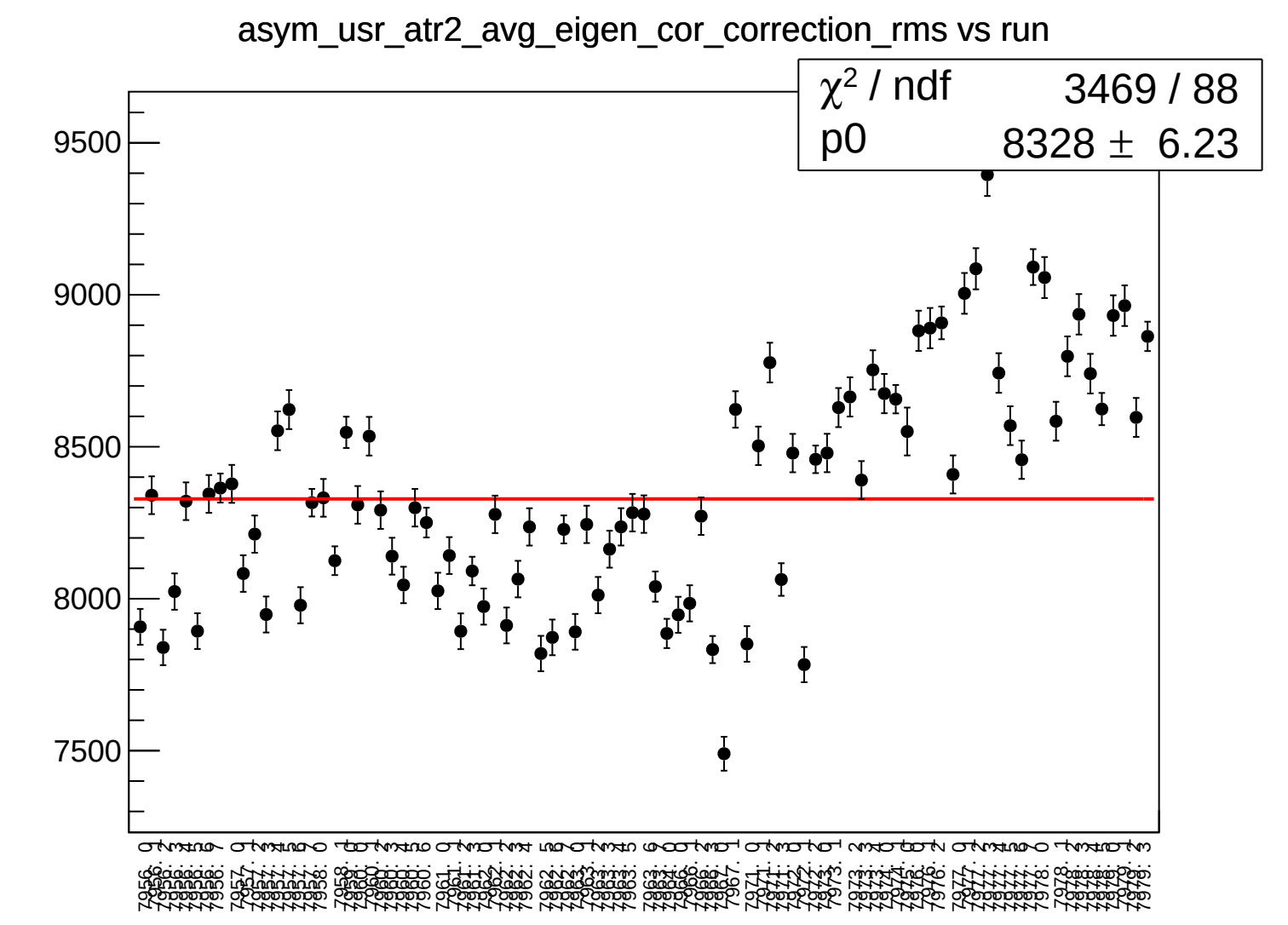

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.3 / 88
p0 −3767 ± 1752
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −283.7
Std Dev 0
2
1
0
−1
−2
−3

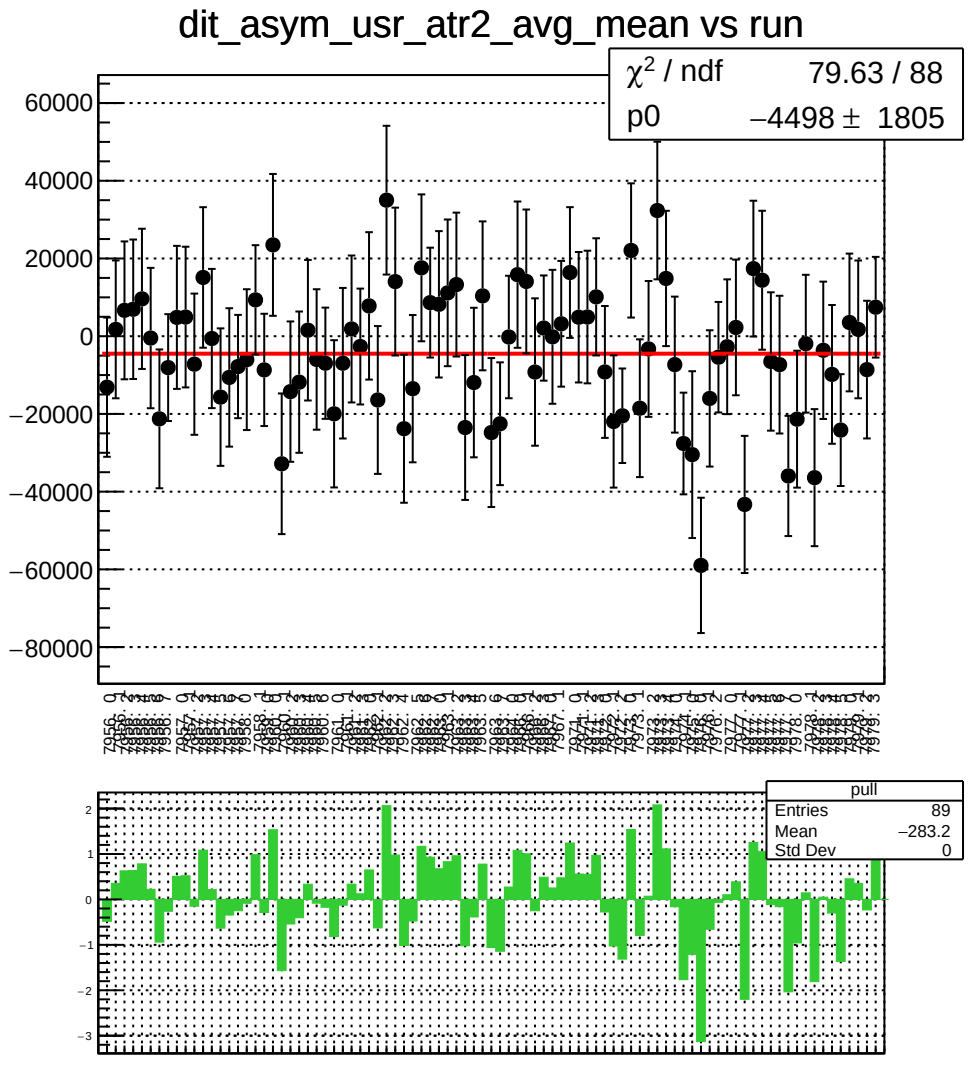

pull1D
Entries 89
Mean 0.009596
Std Dev 0.9498
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

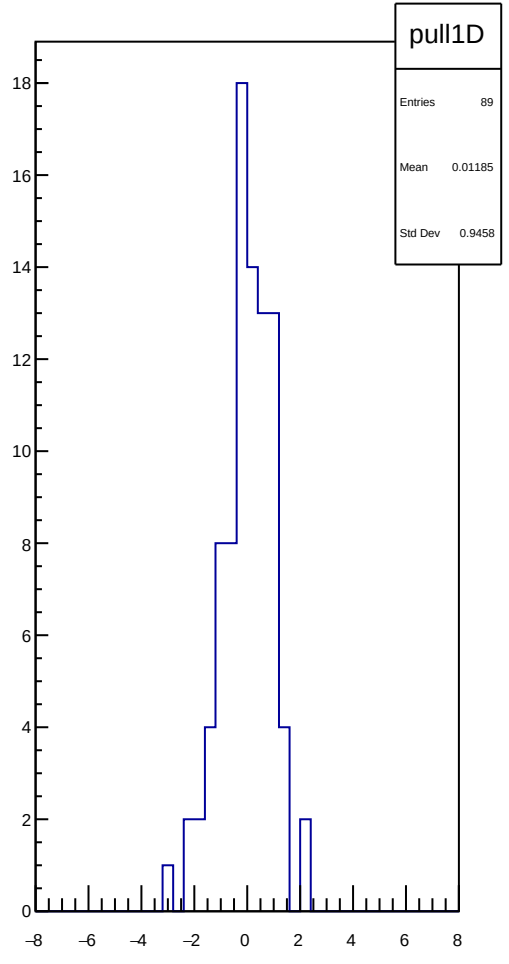

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1303 / 88
p0 1657 ± 1.239
1750
1700
1650
1600
1550
1500

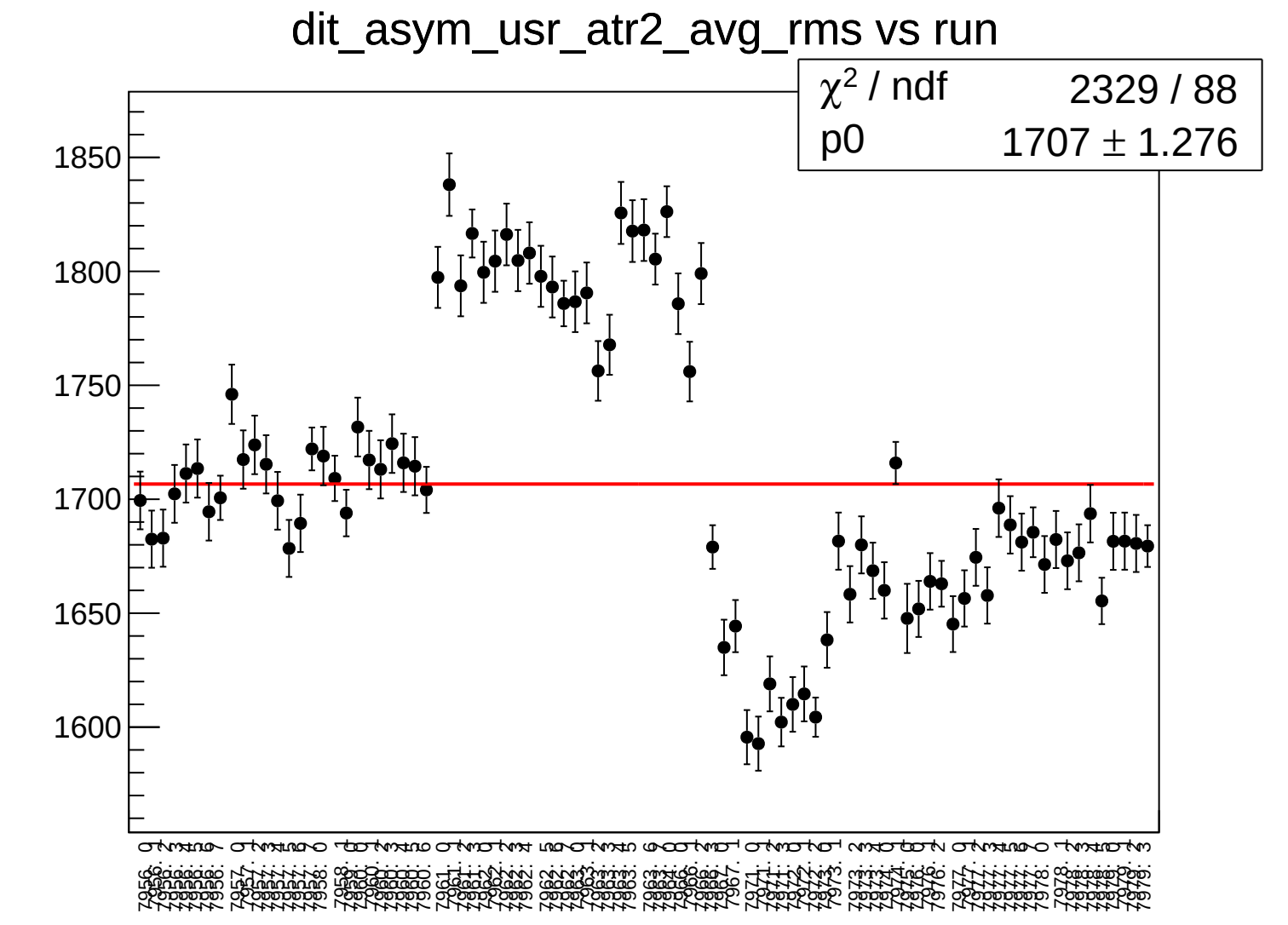

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.26 / 88
p0 3653 ± 8810
pull
Entries 89
Mean −481.2
Std Dev 0

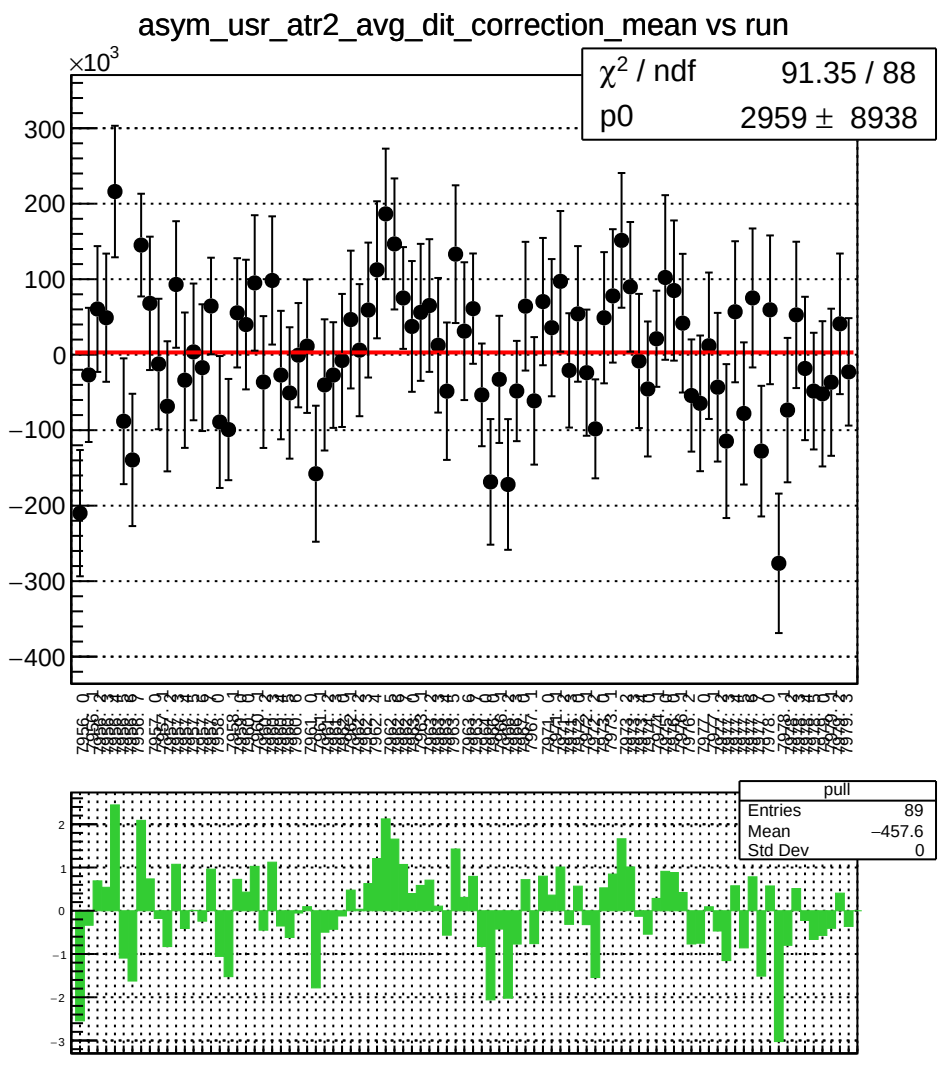

pull1D
Entries 89
Mean 0.005071
Std Dev 1.007

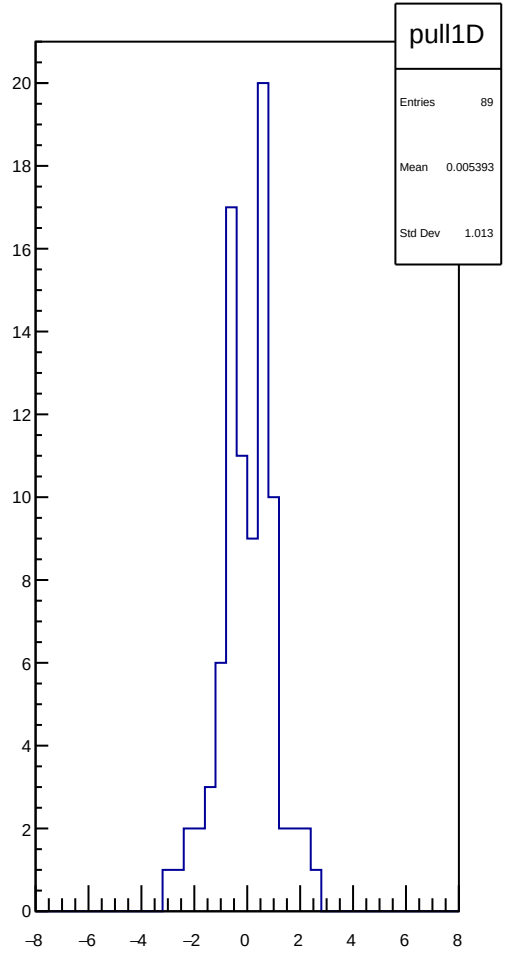

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3469 / 88
p0 8328 ± 6.23
9500
9000
8500
8000
7500

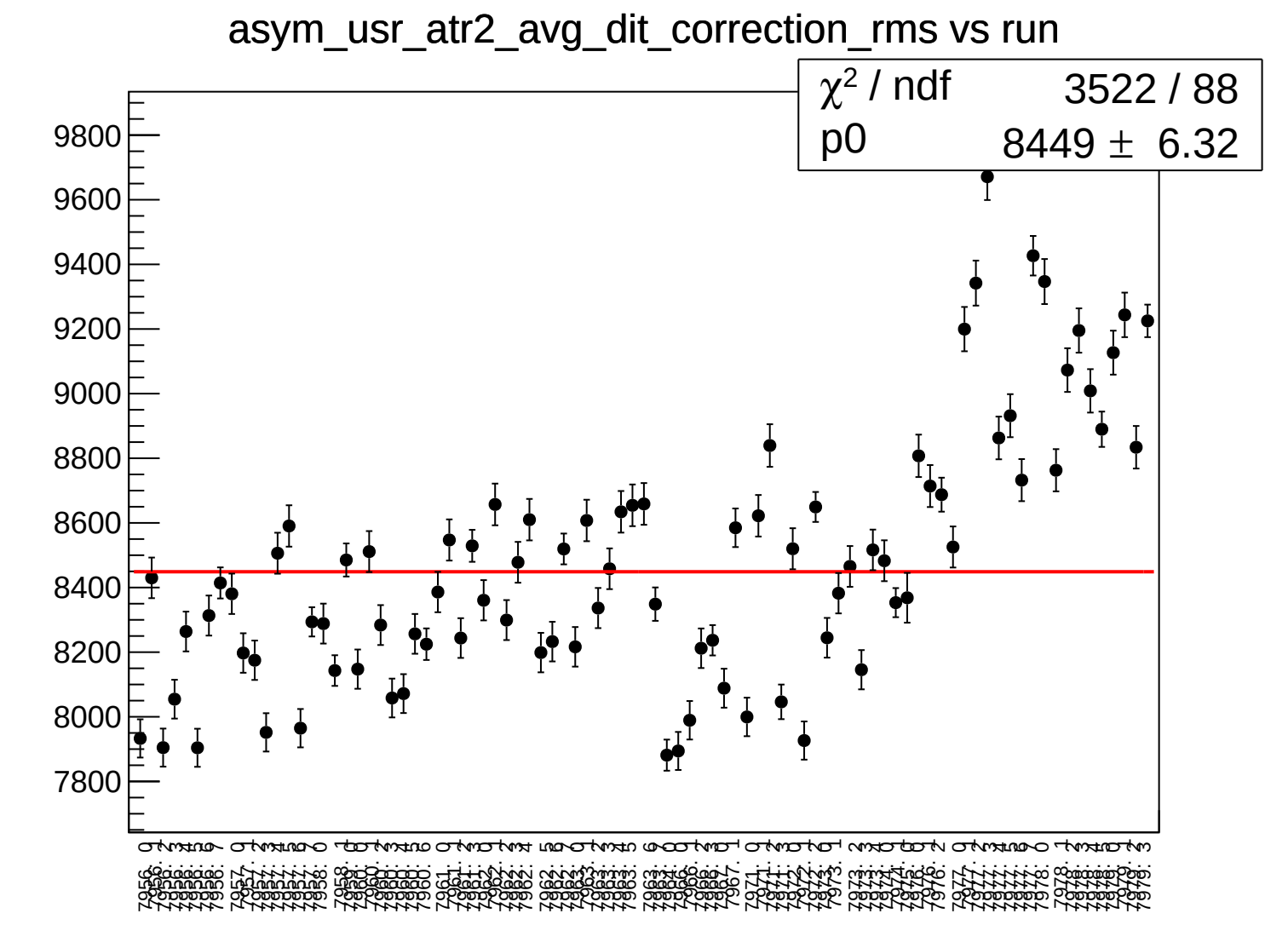

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 79.63 / 88
p0 −4498 ± 1805
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −283.2
Std Dev 0
2
1
0
−1
−2
−3

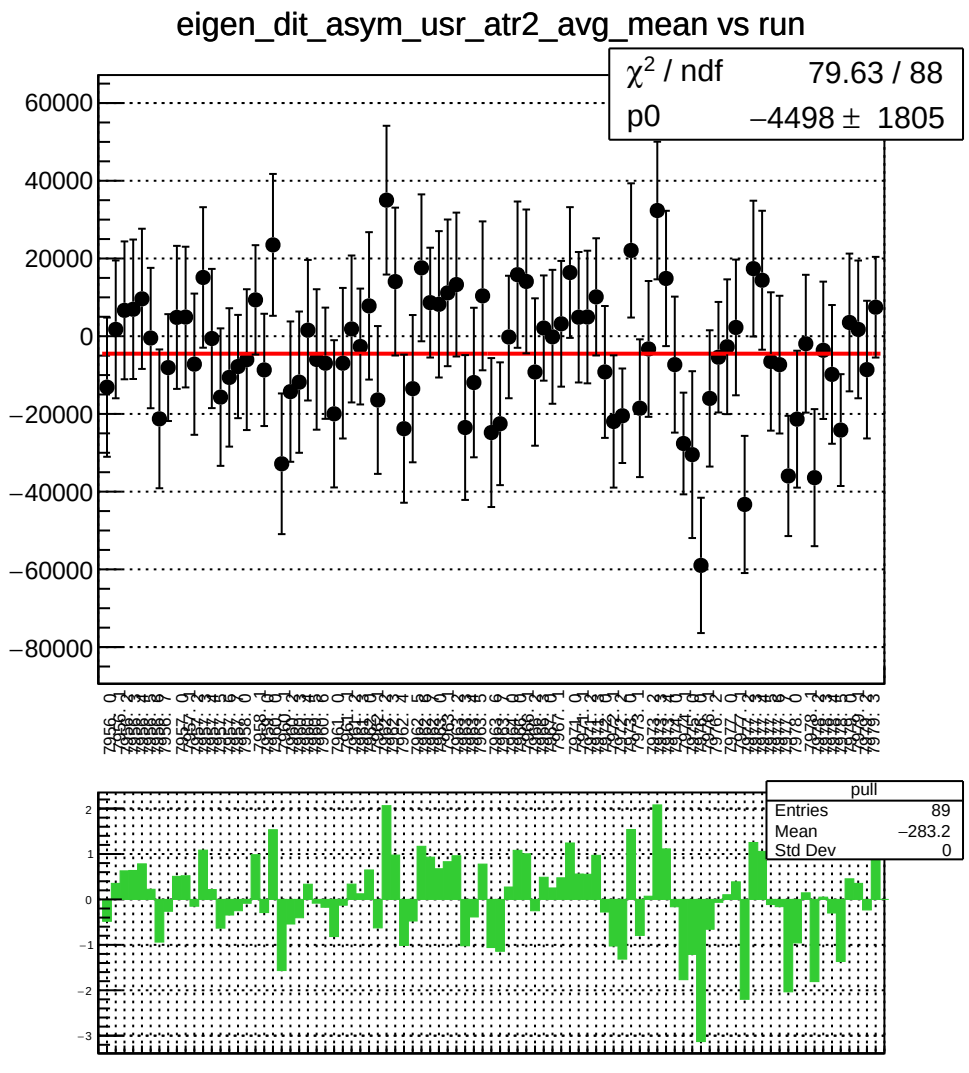

pull1D
Entries 89
Mean 0.01185
Std Dev 0.9458
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

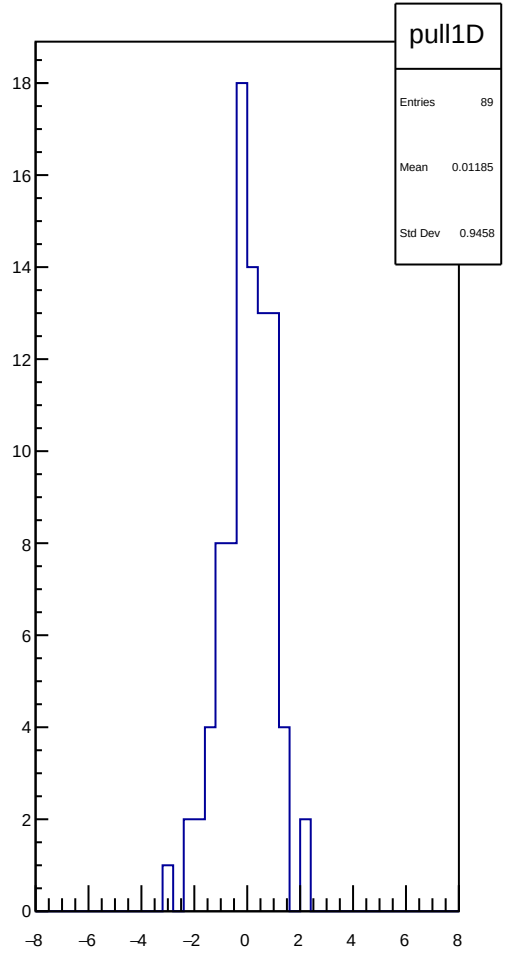

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 2329 / 88
p0 1707 ± 1.276
1850
1800
1750
1700
1650
1600

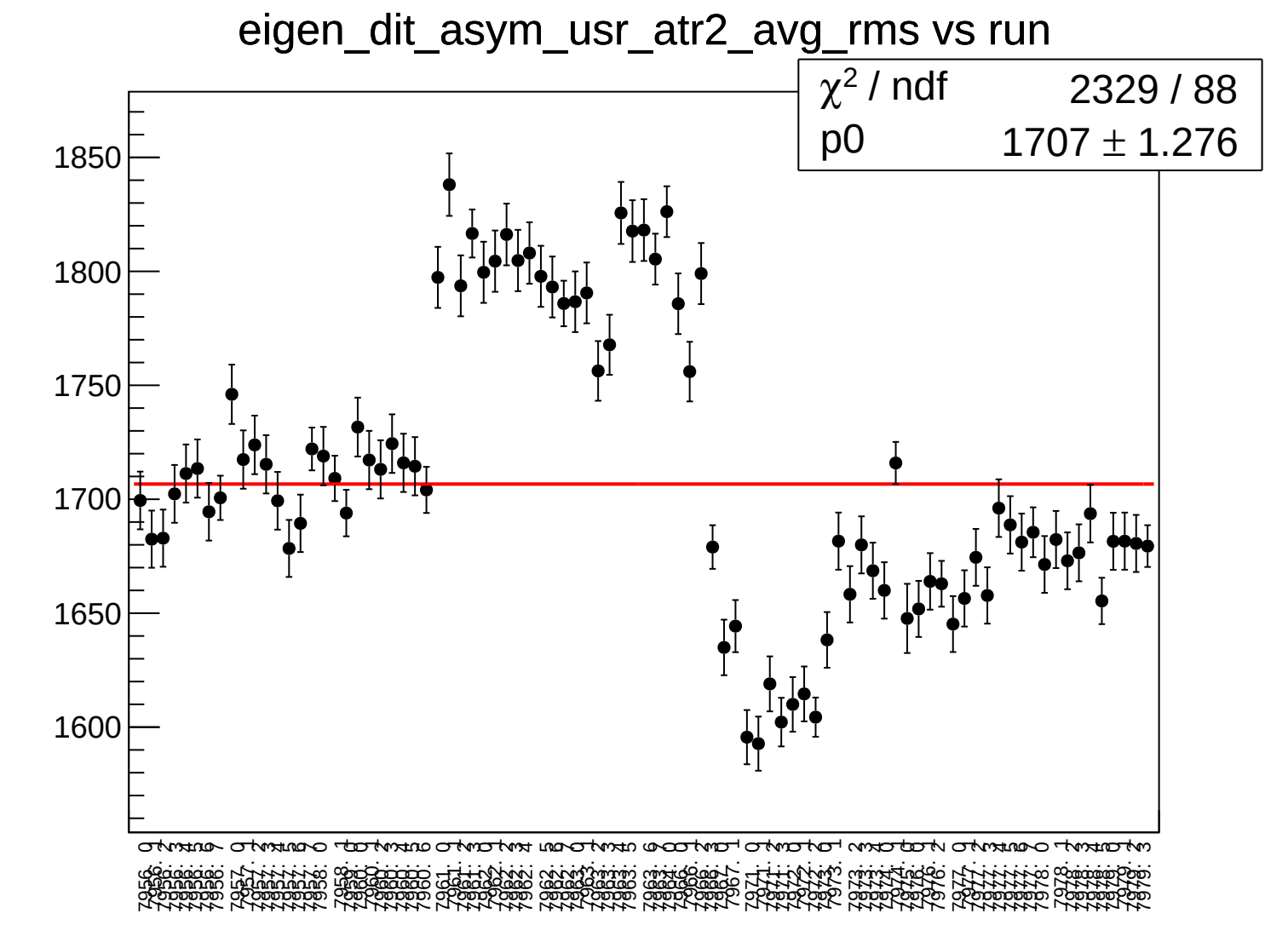

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.35 / 88
p0 2959 ± 8938
300
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean −457.6
Std Dev 0
2
1
0
−1
−2
−3

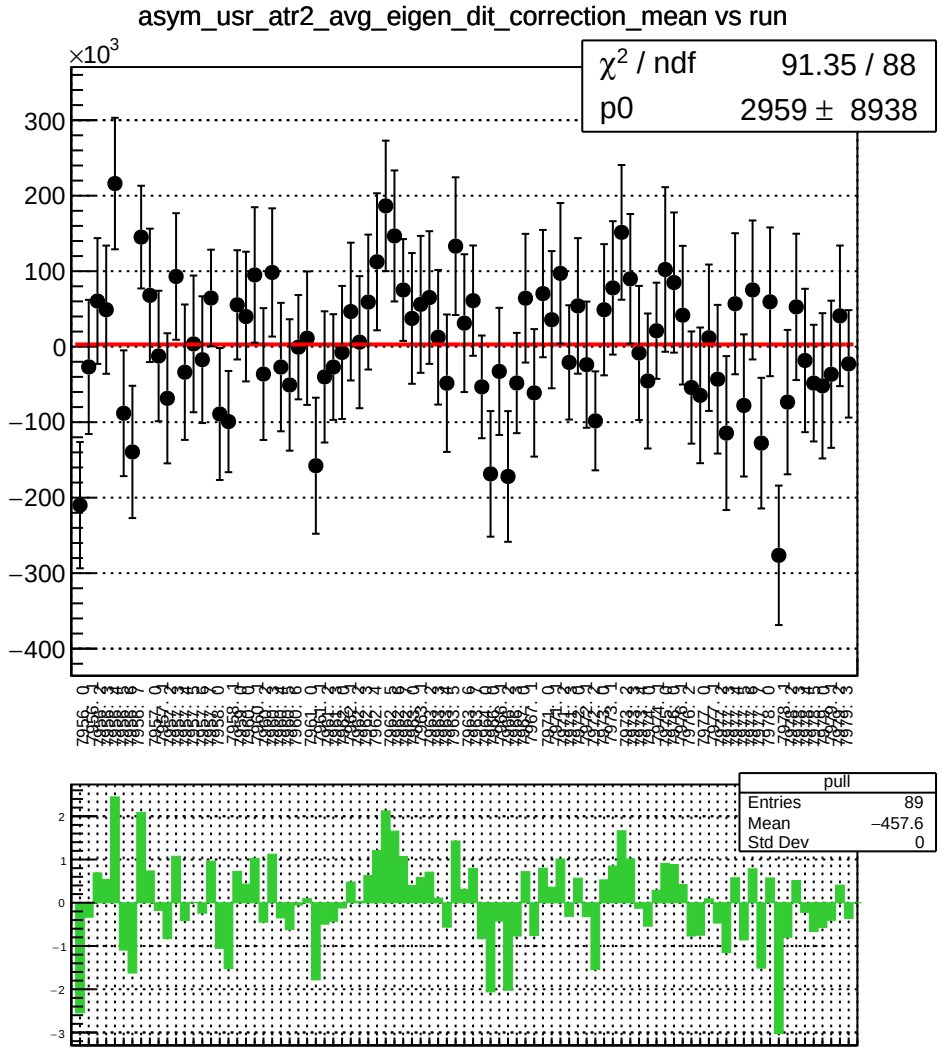

pull1D
Entries 89
Mean 0.005393
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

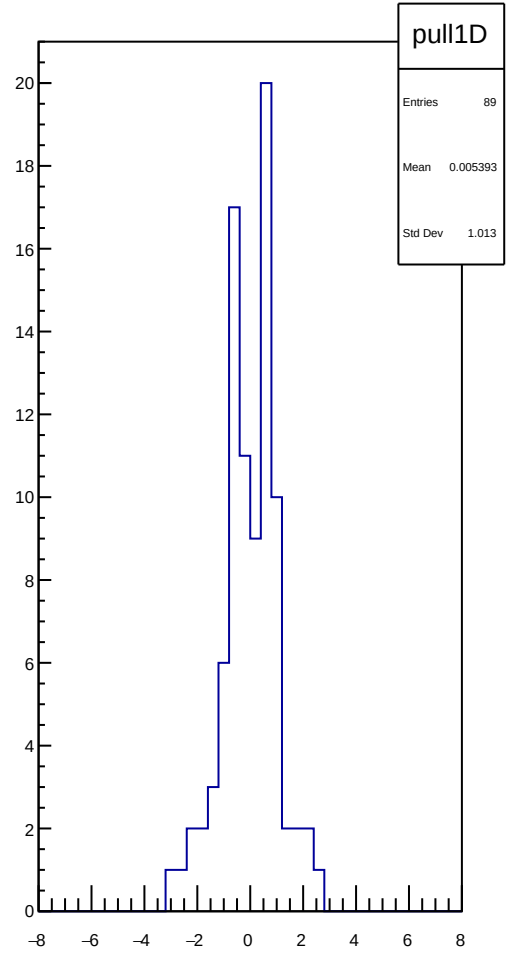

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 3522 / 88
p0 8449 ± 6.32
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

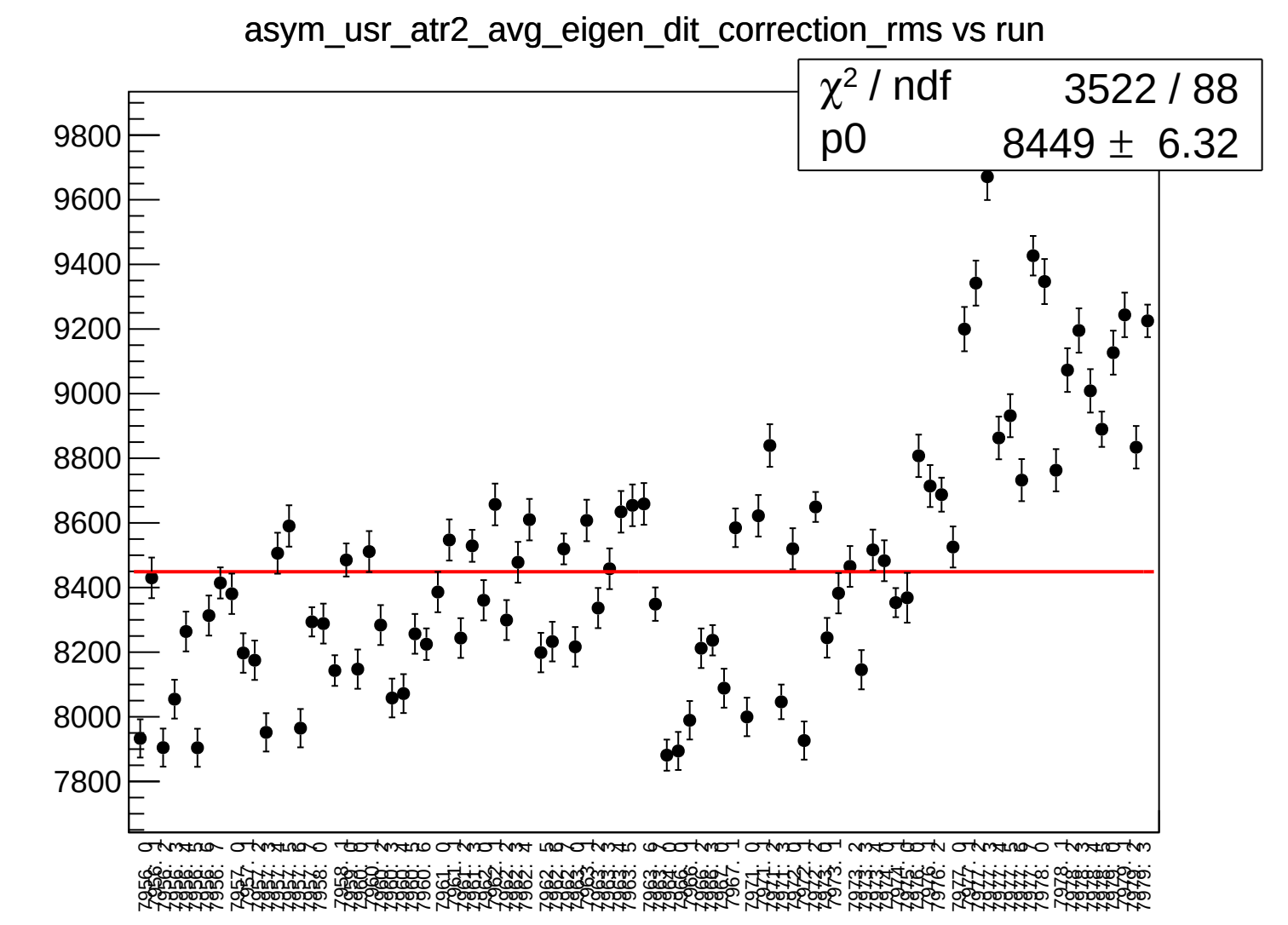

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 79.63 / 88
p0 −4498 ± 1805
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −283.2
Std Dev 0
2
1
0
−1
−2
−3

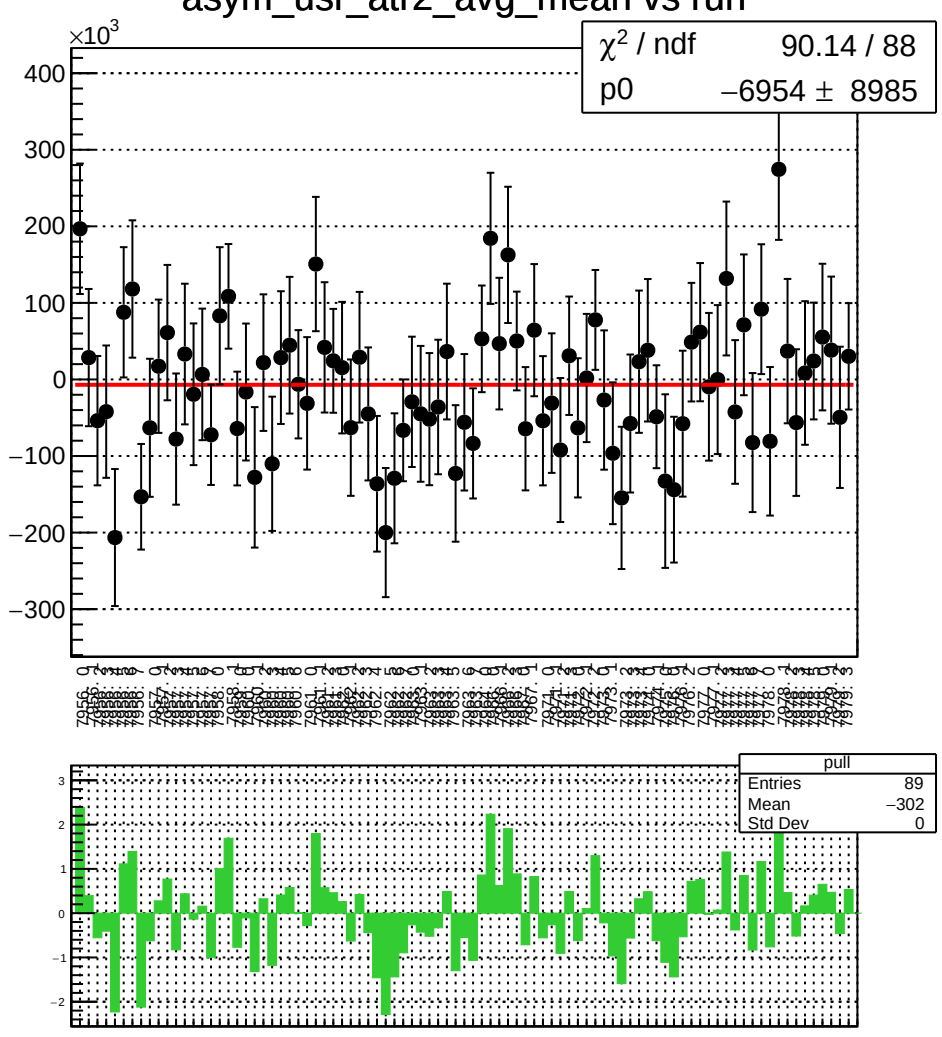

pull1D
Entries 89
Mean 0.01185
Std Dev 0.9458
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

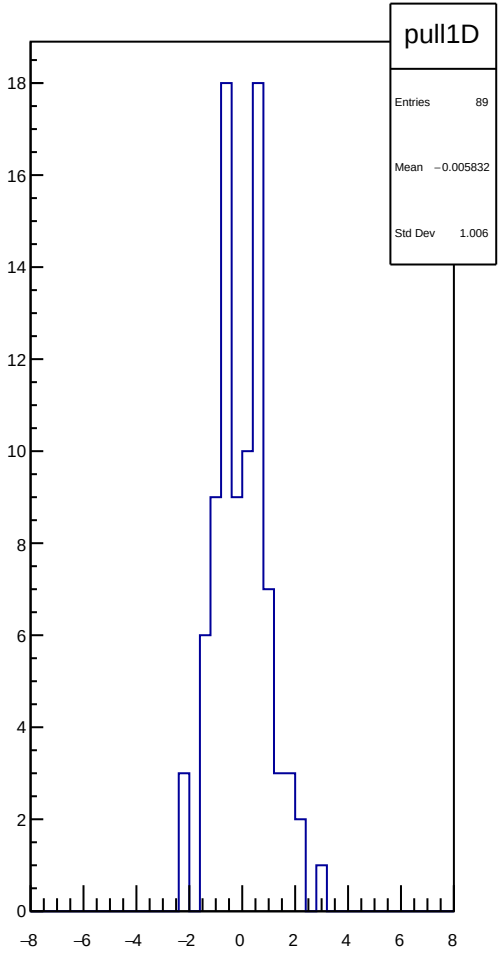

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 2329 / 88
p0 1707 ± 1.276
1850
1800
1750
1700
1650
1600

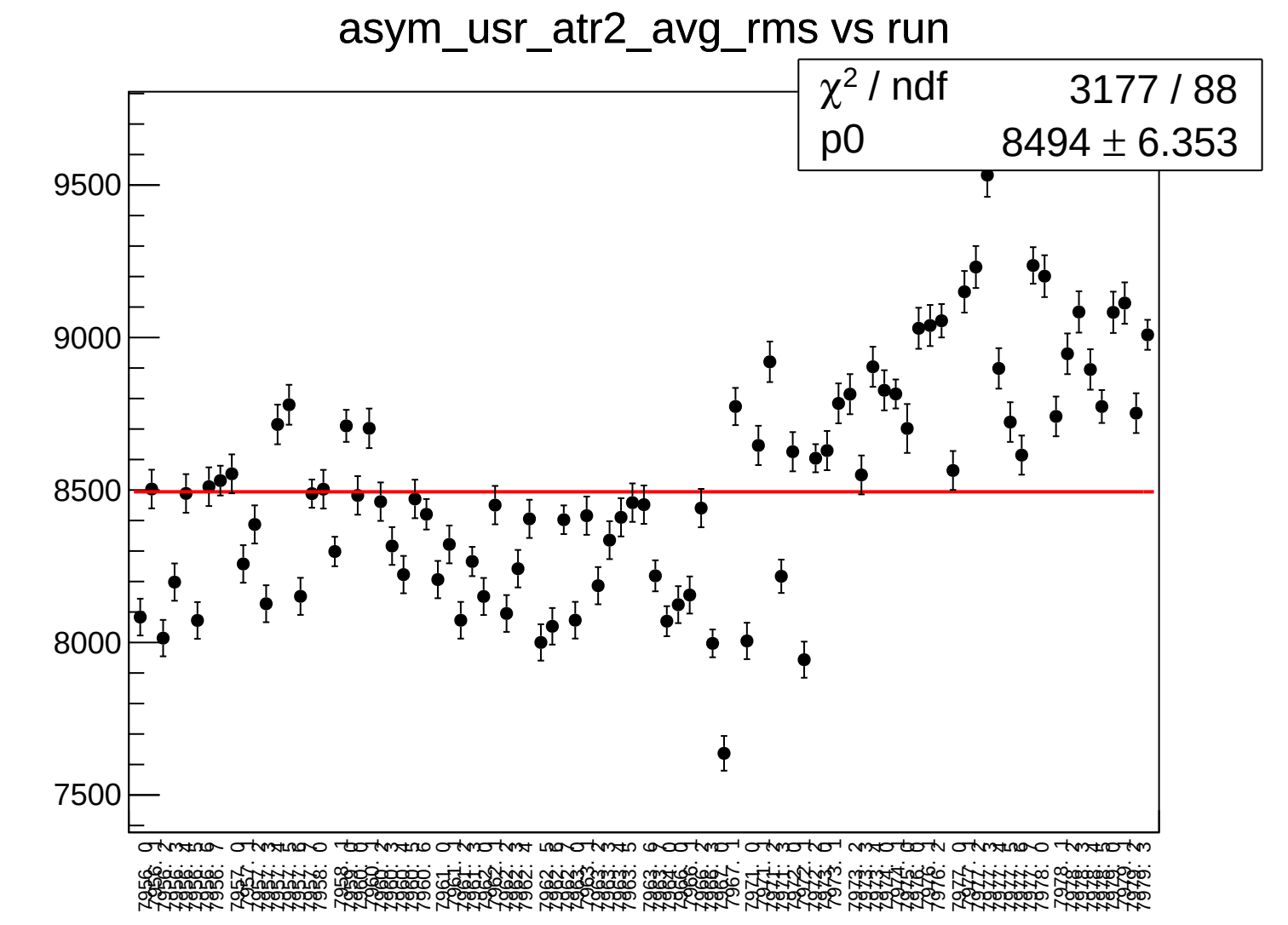

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.35 / 88
p0 2959 ± 8938
pull
Entries 89
Mean −457.6
Std Dev 0

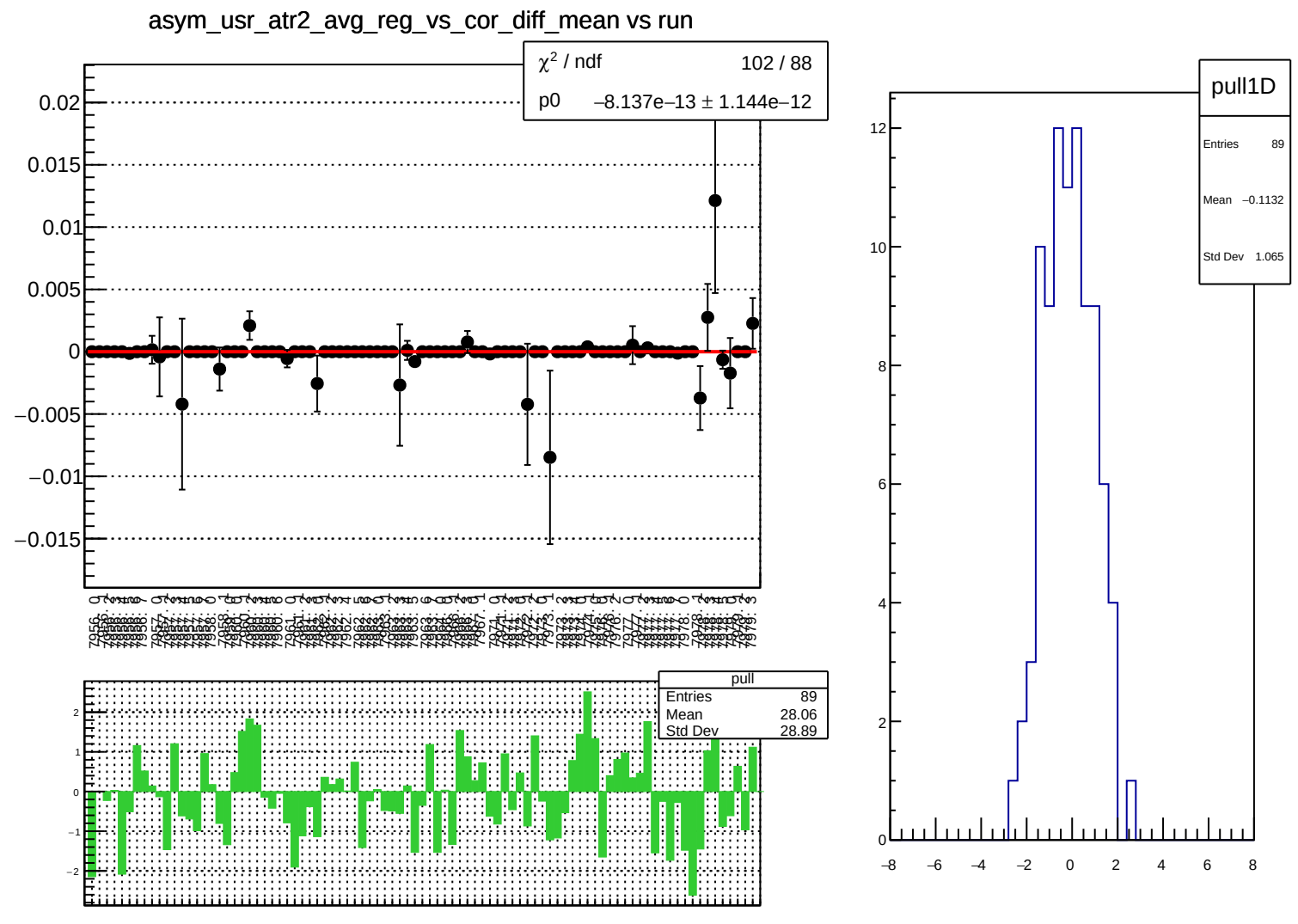

pull1D
Entries 89
Mean 0.005393
Std Dev 1.013

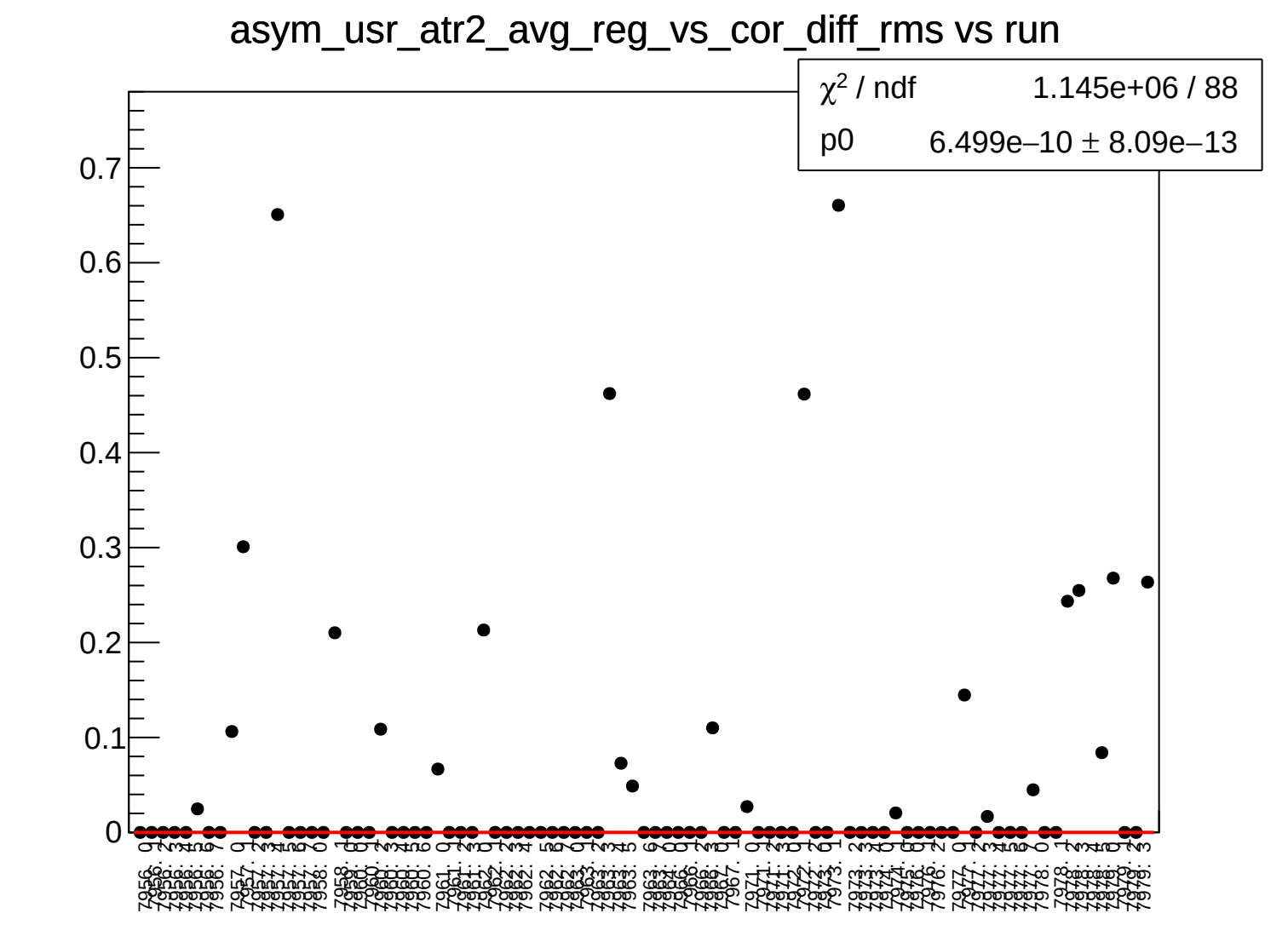

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3522 / 88
p0 8449 ± 6.32
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

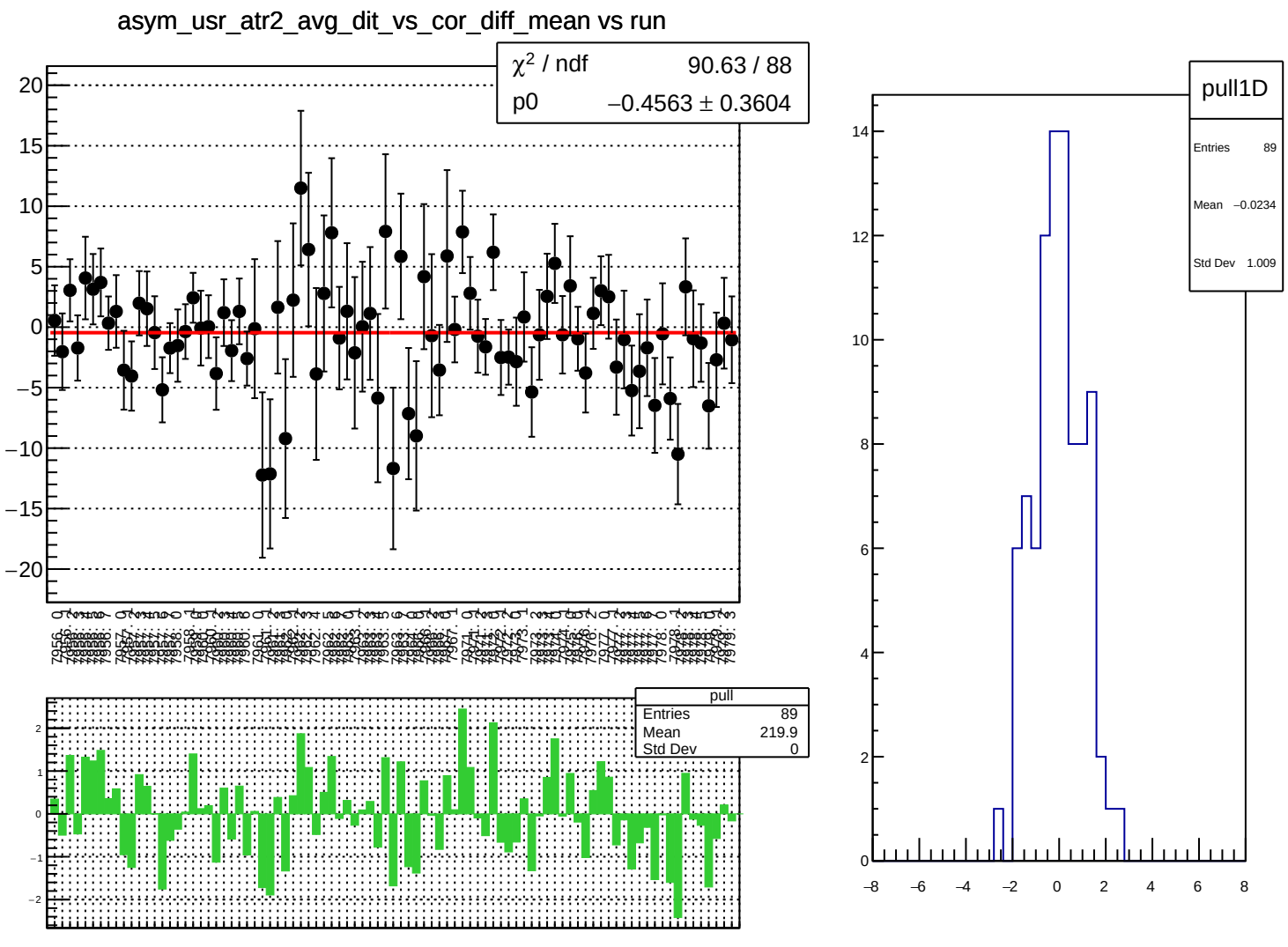

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 90.14 / 88
p0 −6954 ± 8985
pull
Entries 89
Mean −302
Std Dev 0

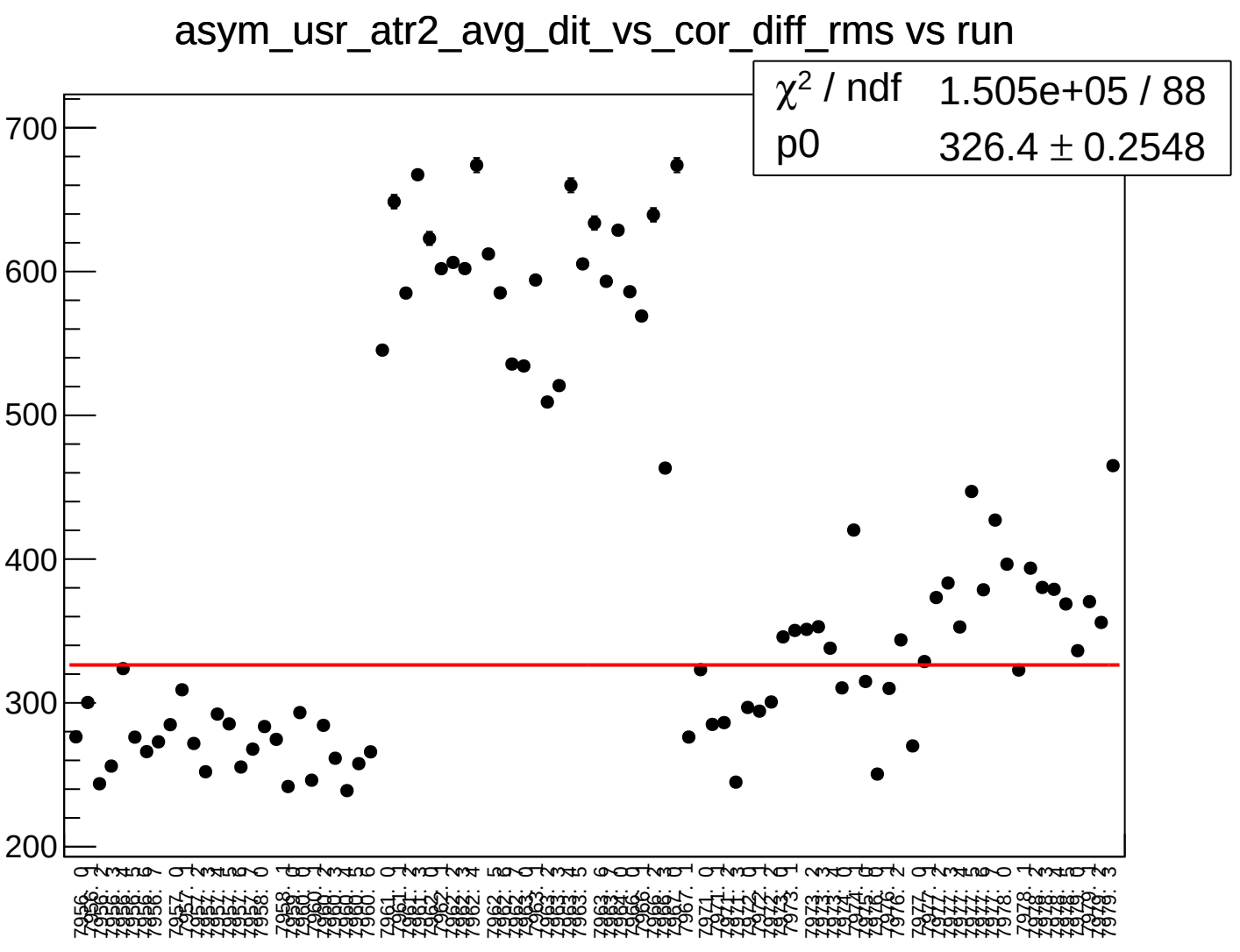

pull1D
Entries 89
Mean −0.005832
Std Dev 1.006

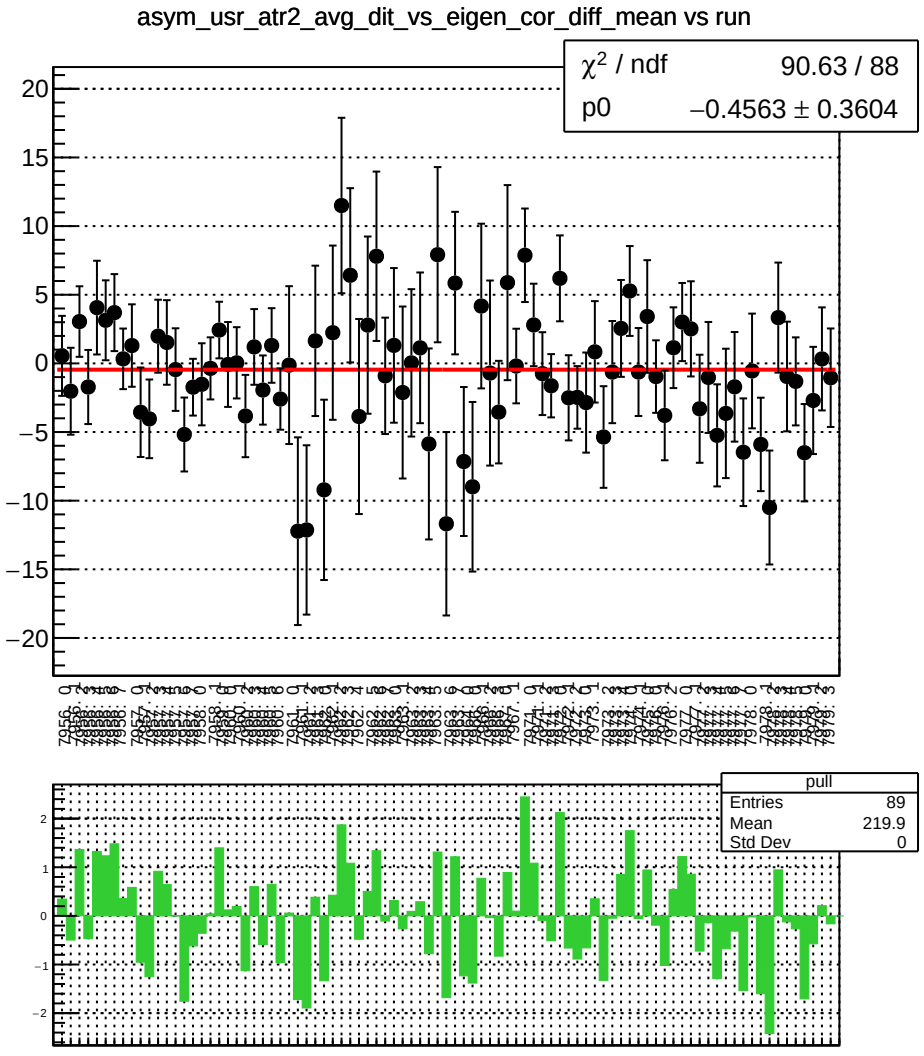

asym_usr_atr2_avg_rms vs run
$\chi^2$ / ndf 3177 / 88
p0 8494 ± 6.353
9500
9000
8500
8000
7500

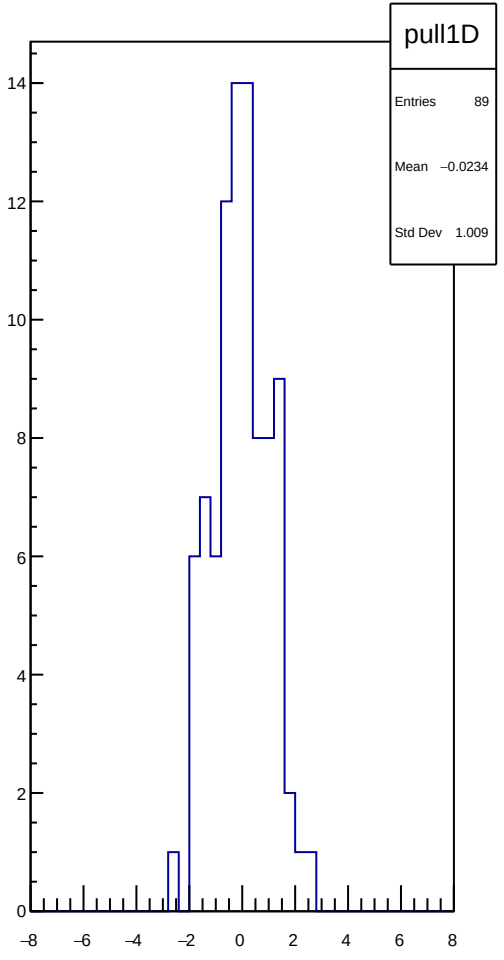

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102 / 88
p0 −8.137e−13 ± 1.144e−12
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 28.06
Std Dev 28.89
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.1132
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

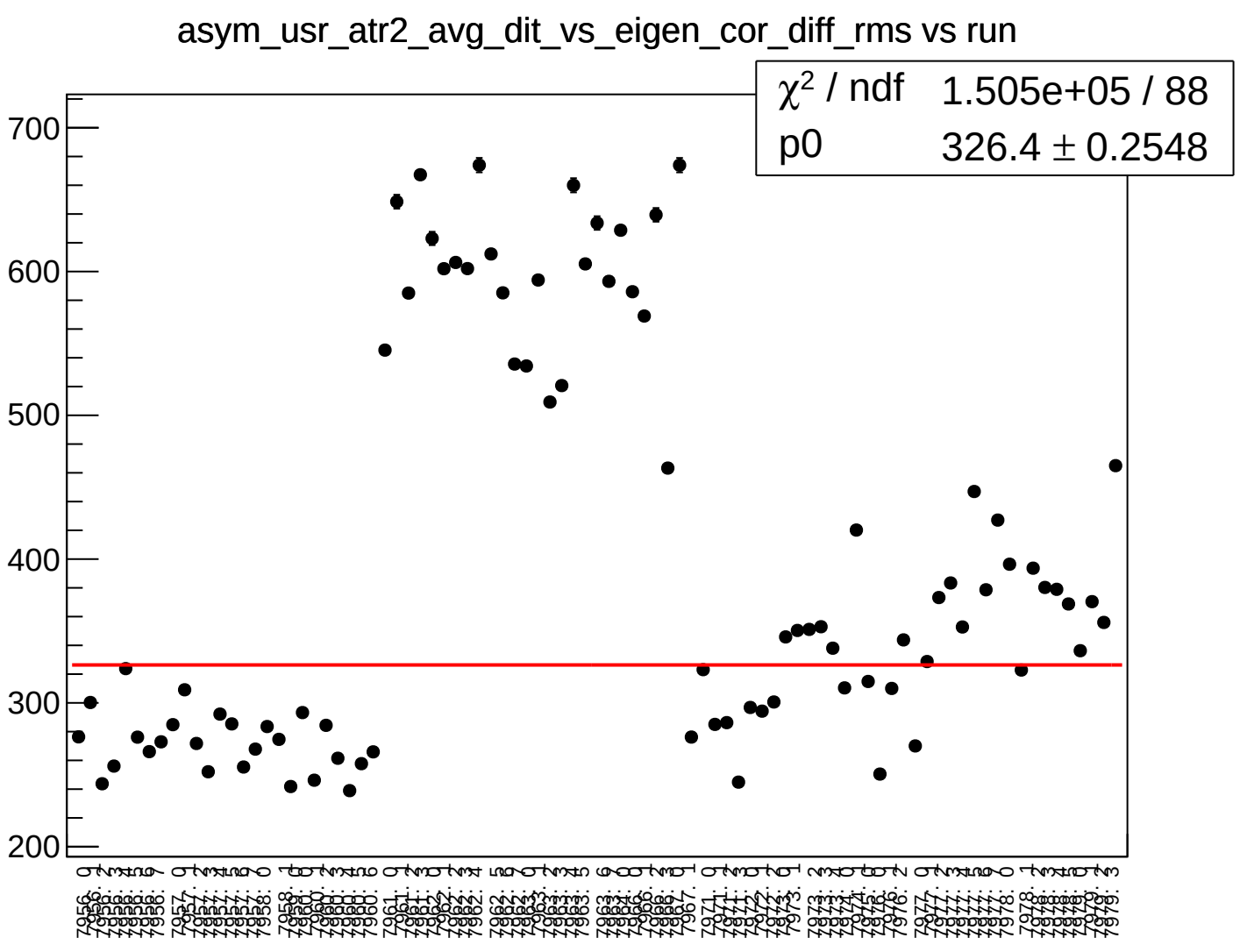

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 88
p0 6.499e−10 ± 8.09e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

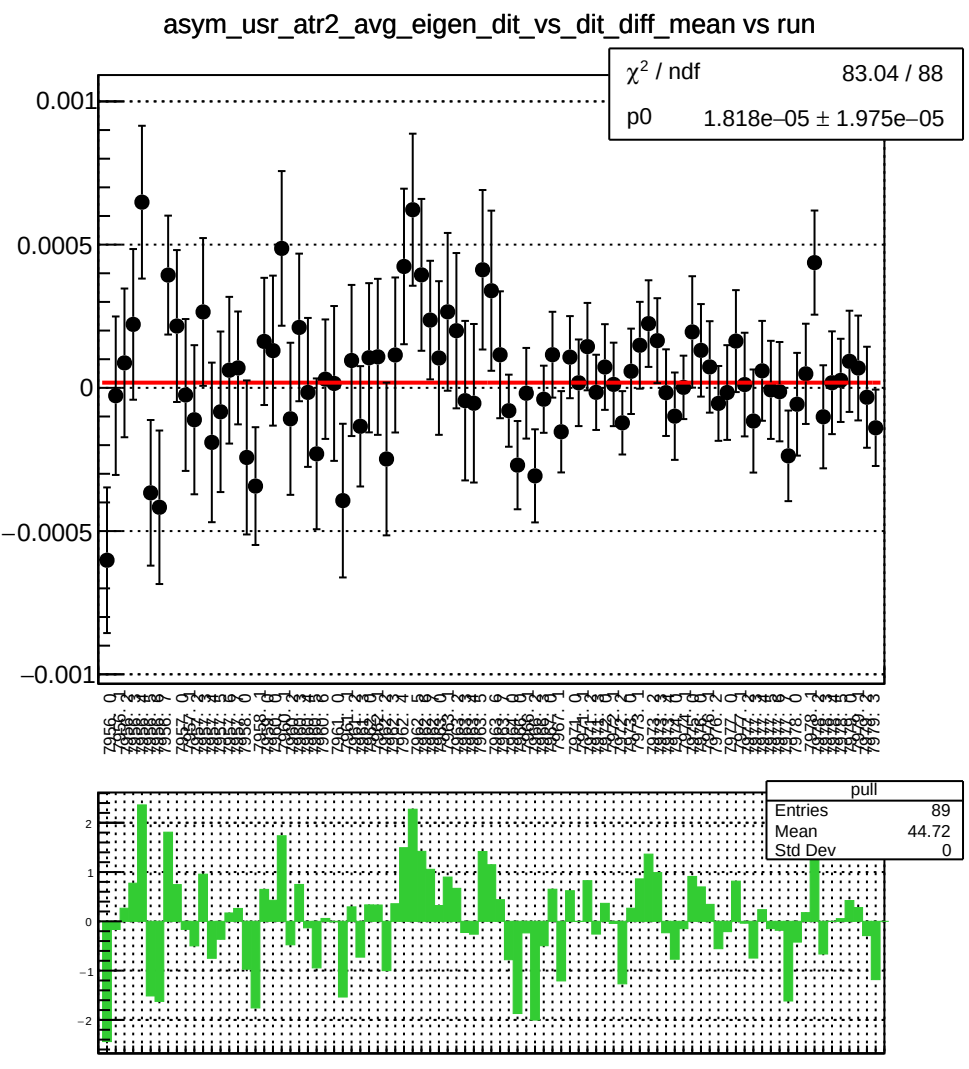

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.63 / 88
p0 −0.4563 ± 0.3604
pull
Entries 89
Mean 219.9
Std Dev 0
pull1D
Entries 89
Mean −0.0234
Std Dev 1.009

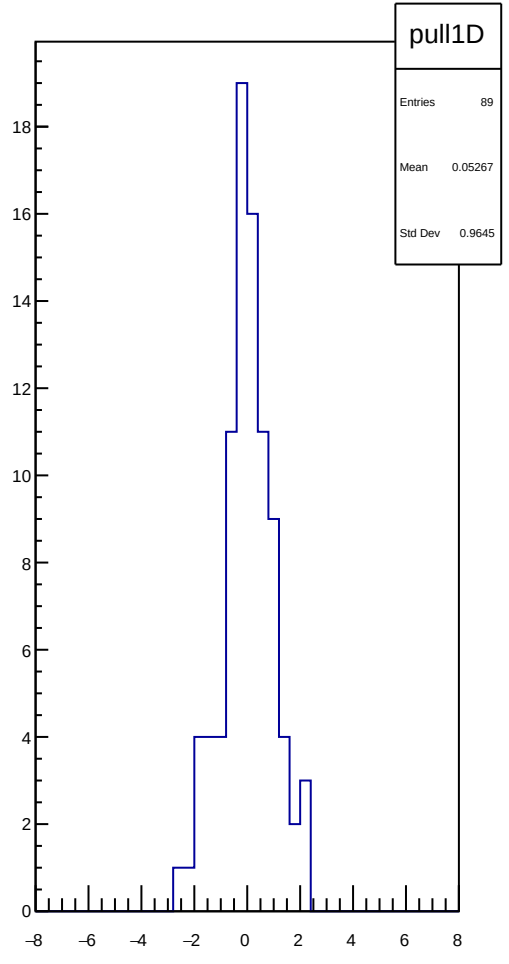

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.505e+05 / 88
p0 326.4 ± 0.2548
700
600
500
400
300
200

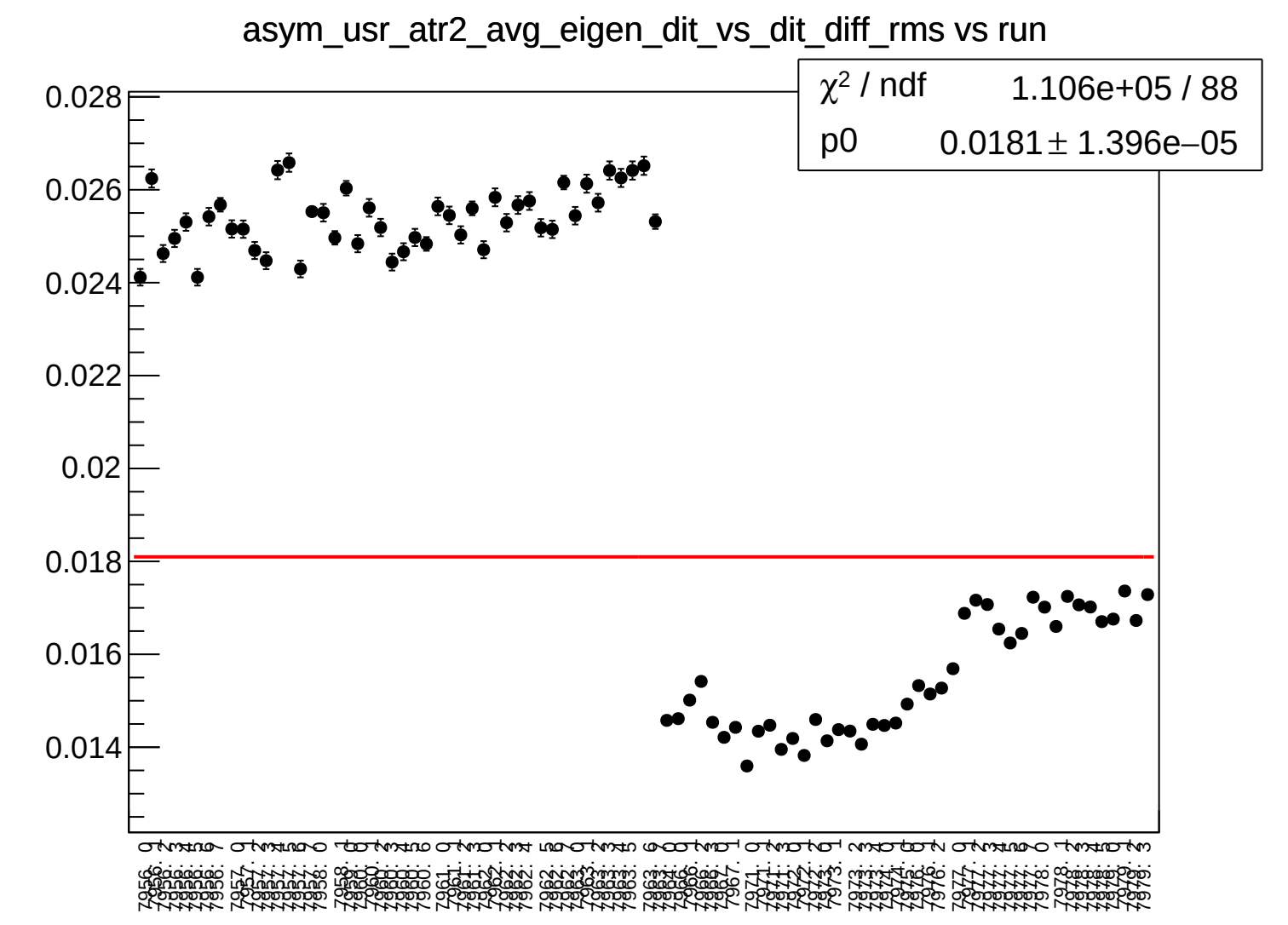

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.63 / 88
p0 −0.4563 ± 0.3604
pull
Entries 89
Mean 219.9
Std Dev 0

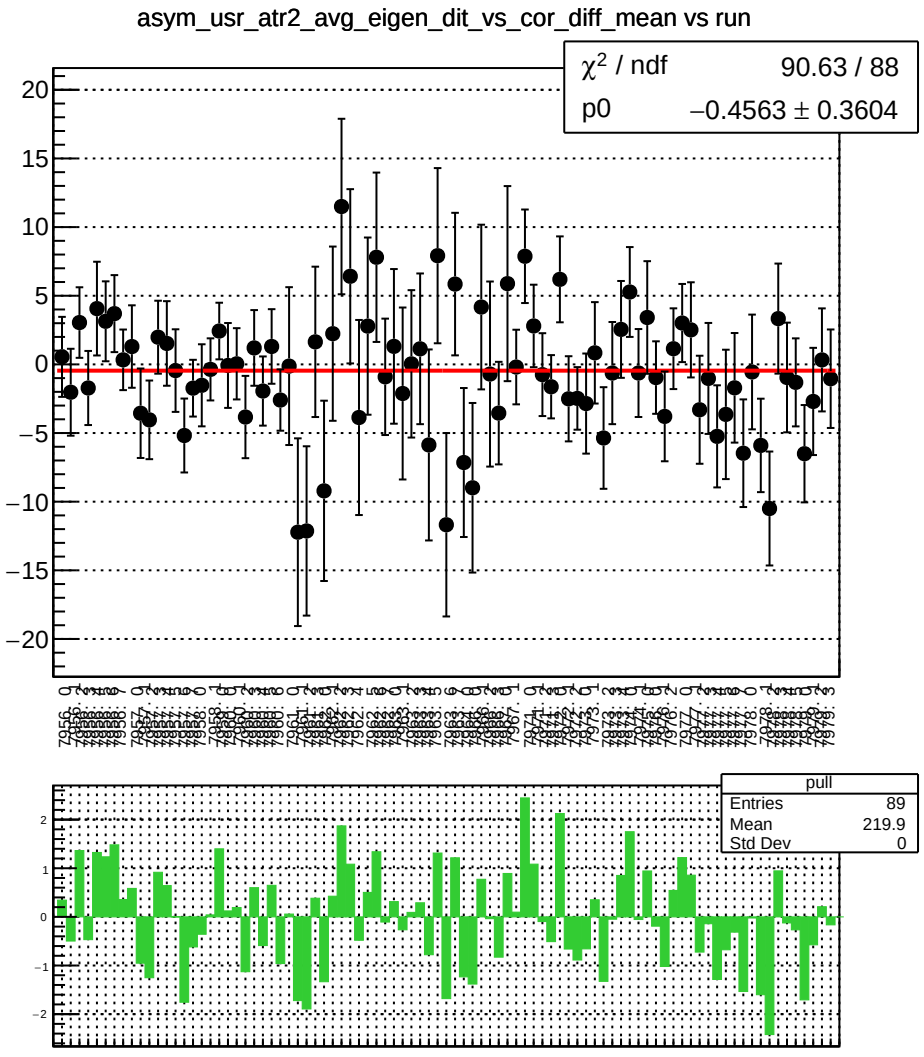

pull1D
Entries 89
Mean −0.0234
Std Dev 1.009

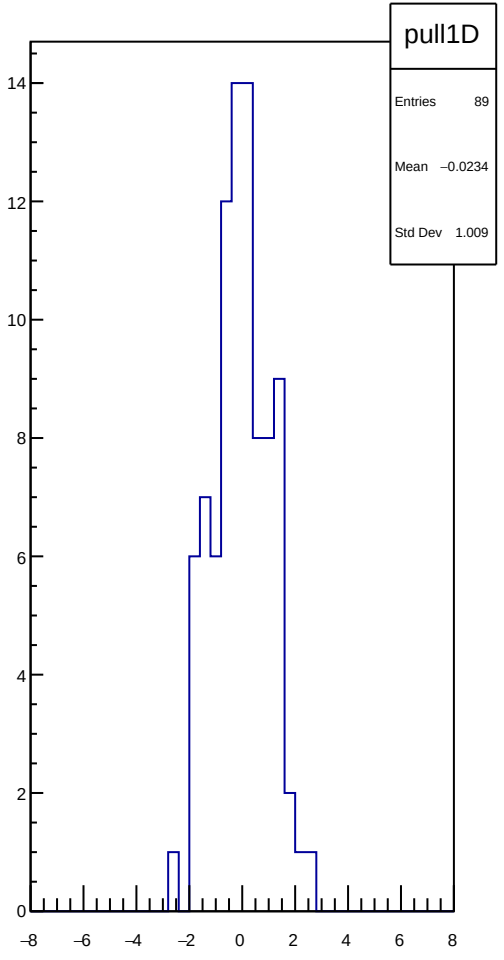

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.505e+05 / 88
p0 326.4 ± 0.2548
700
600
500
400
300
200

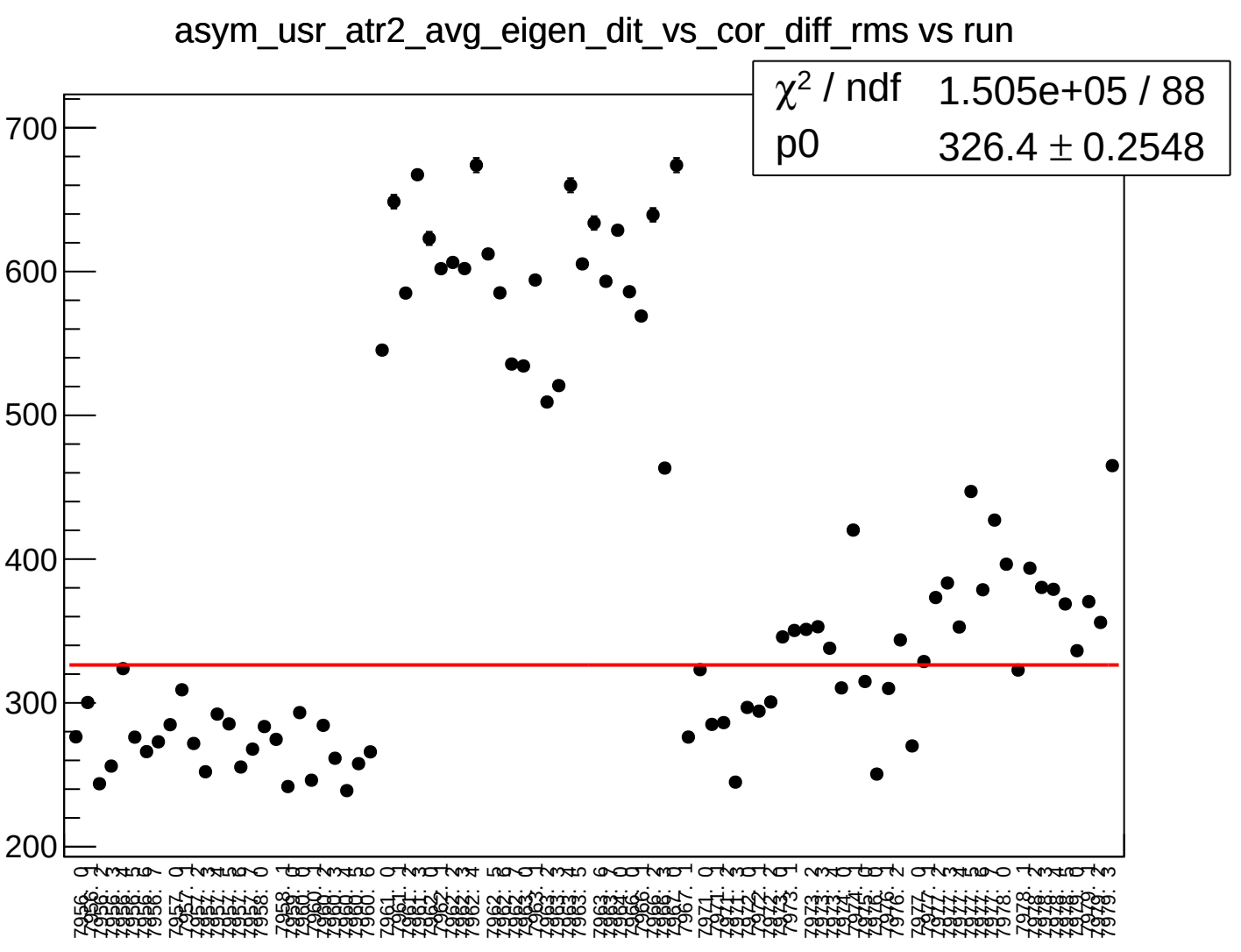

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 83.04 / 88
p0 1.818e−05 ± 1.975e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 44.72
Std Dev 0
2
1
0
−1
−2

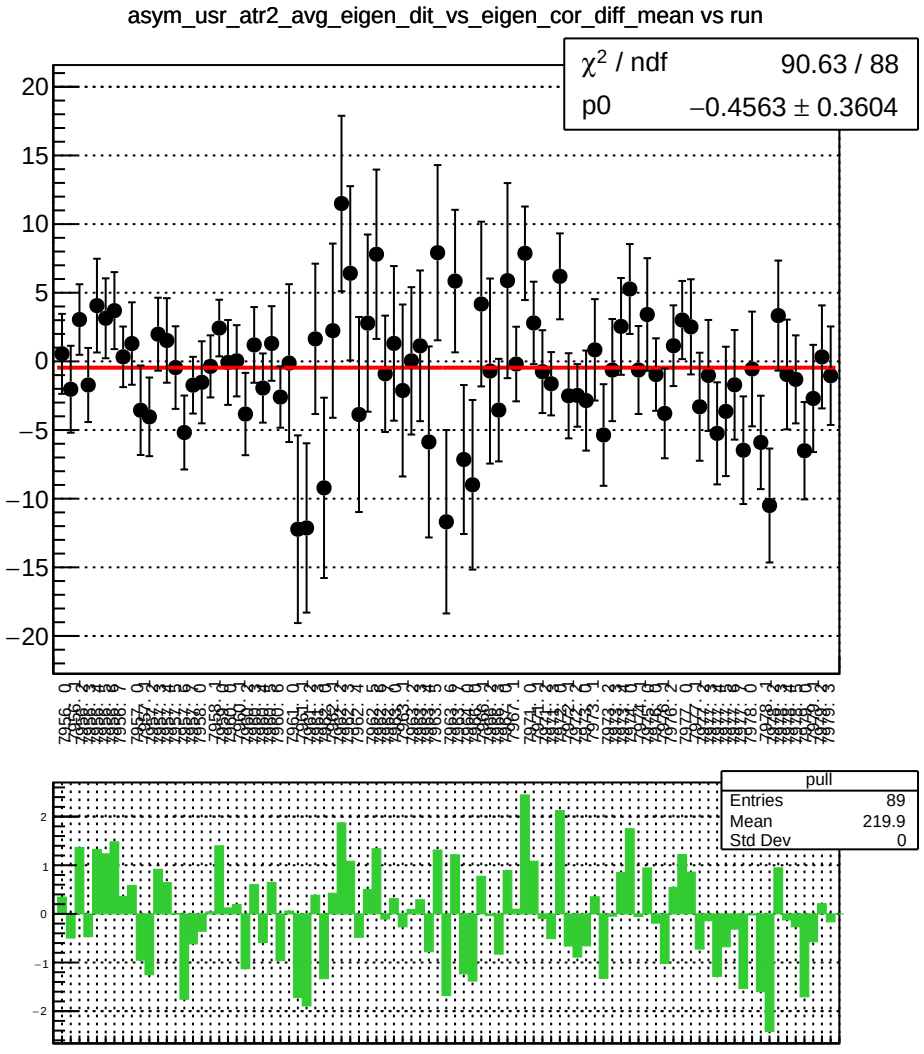

pull1D
Entries 89
Mean 0.05267
Std Dev 0.9645
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

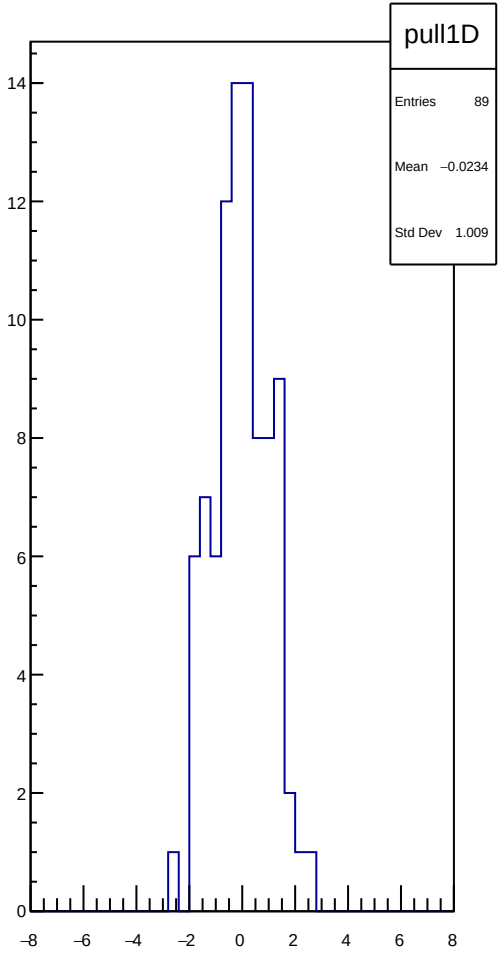

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.106e+05 / 88
p0 0.0181 ± 1.396e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

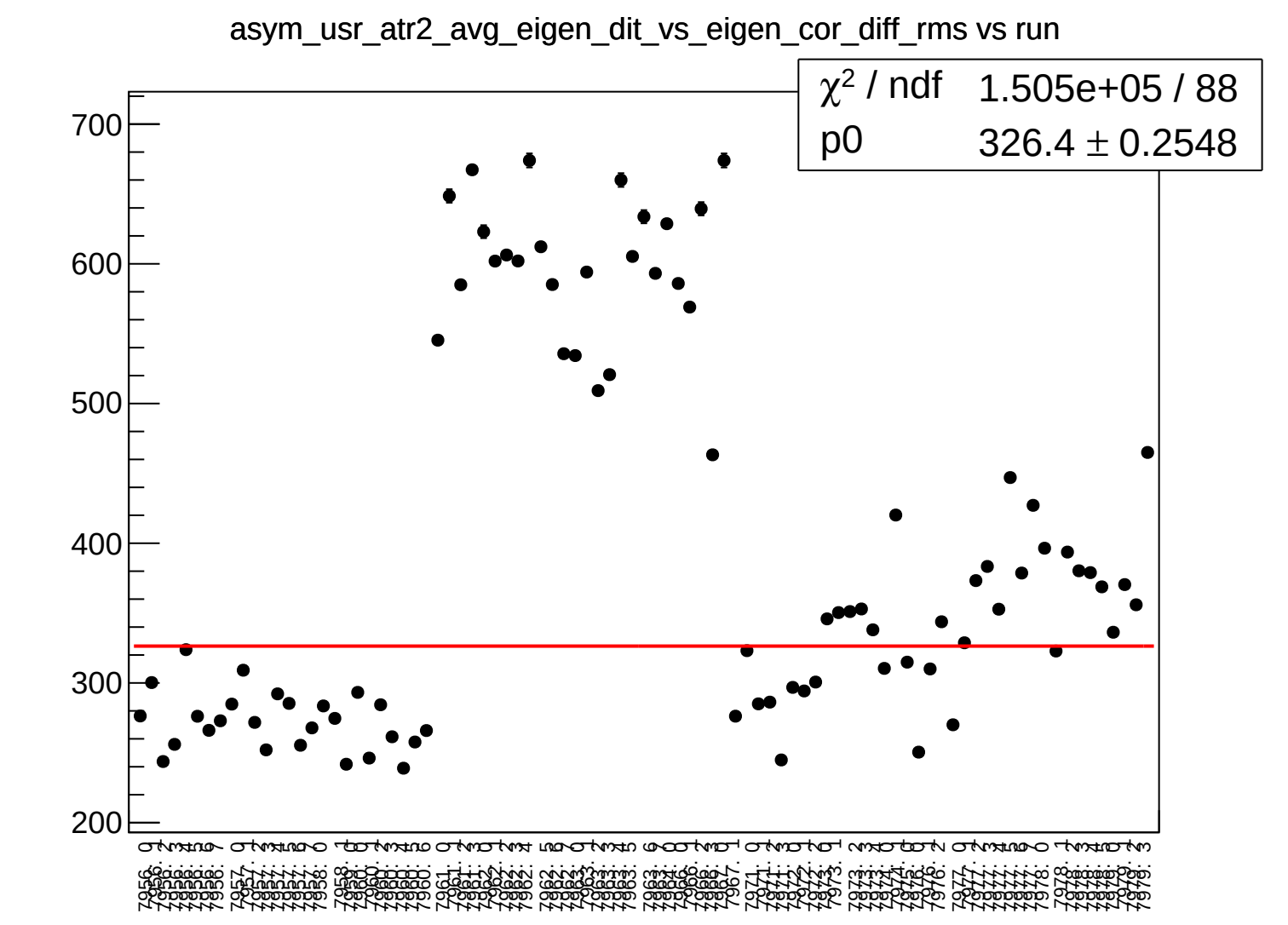

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.63 / 88
p0 −0.4563 ± 0.3604
pull
Entries 89
Mean 219.9
Std Dev 0

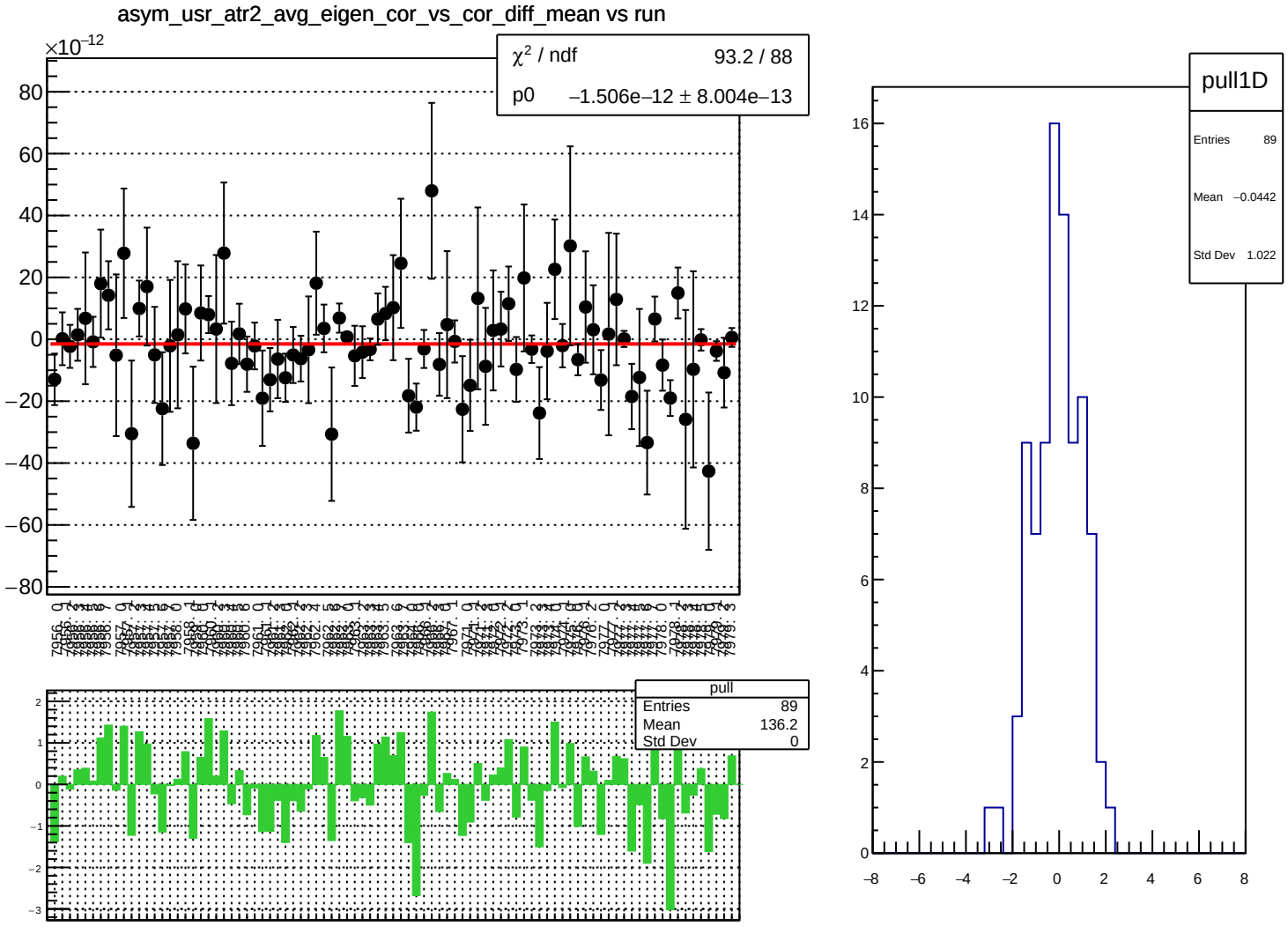

pull1D
Entries 89
Mean −0.0234
Std Dev 1.009

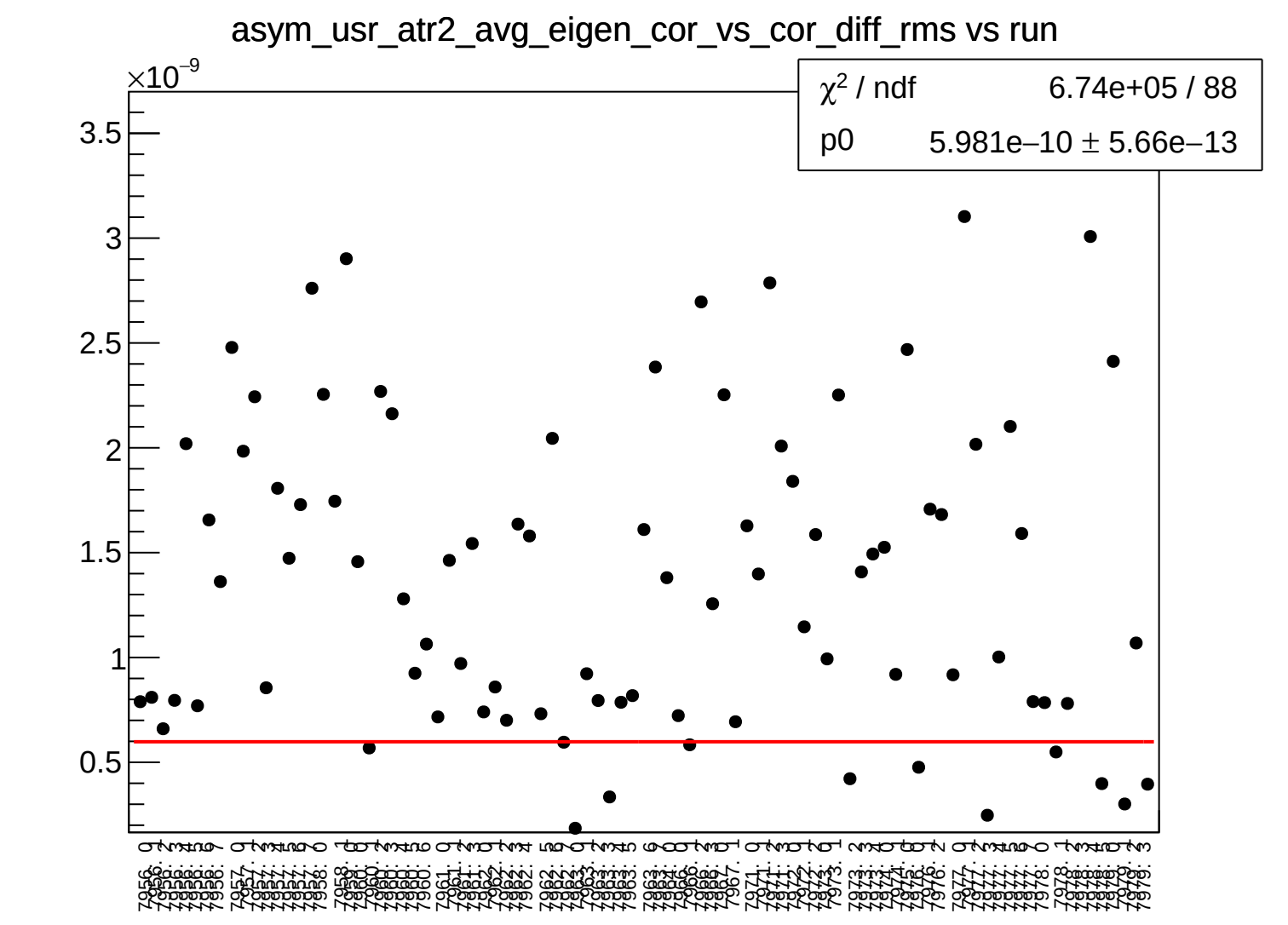

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.505e+05 / 88
p0 326.4 ± 0.2548
700
600
500
400
300
200

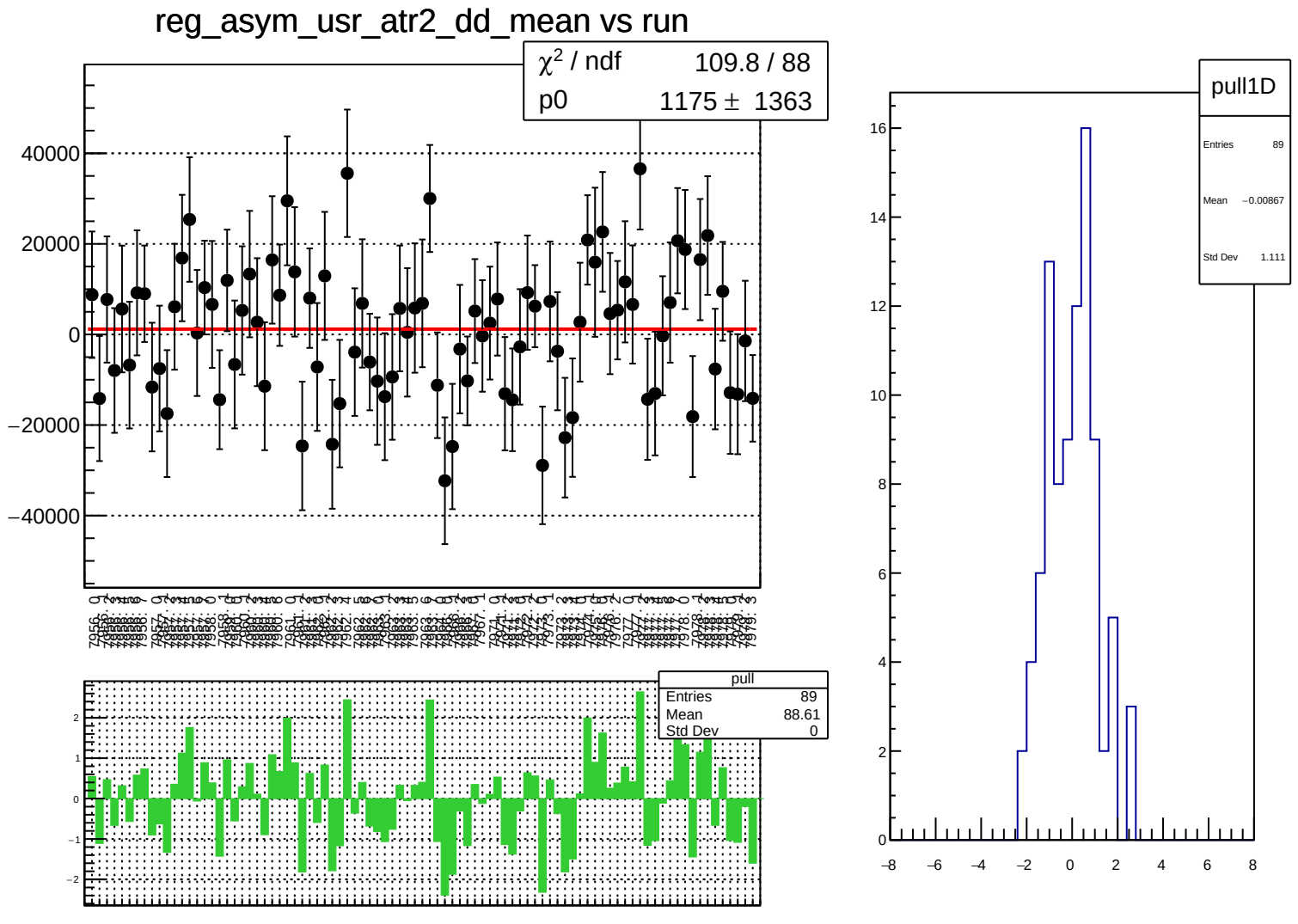

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.63 / 88
p0 −0.4563 ± 0.3604
pull
Entries 89
Mean 219.9
Std Dev 0

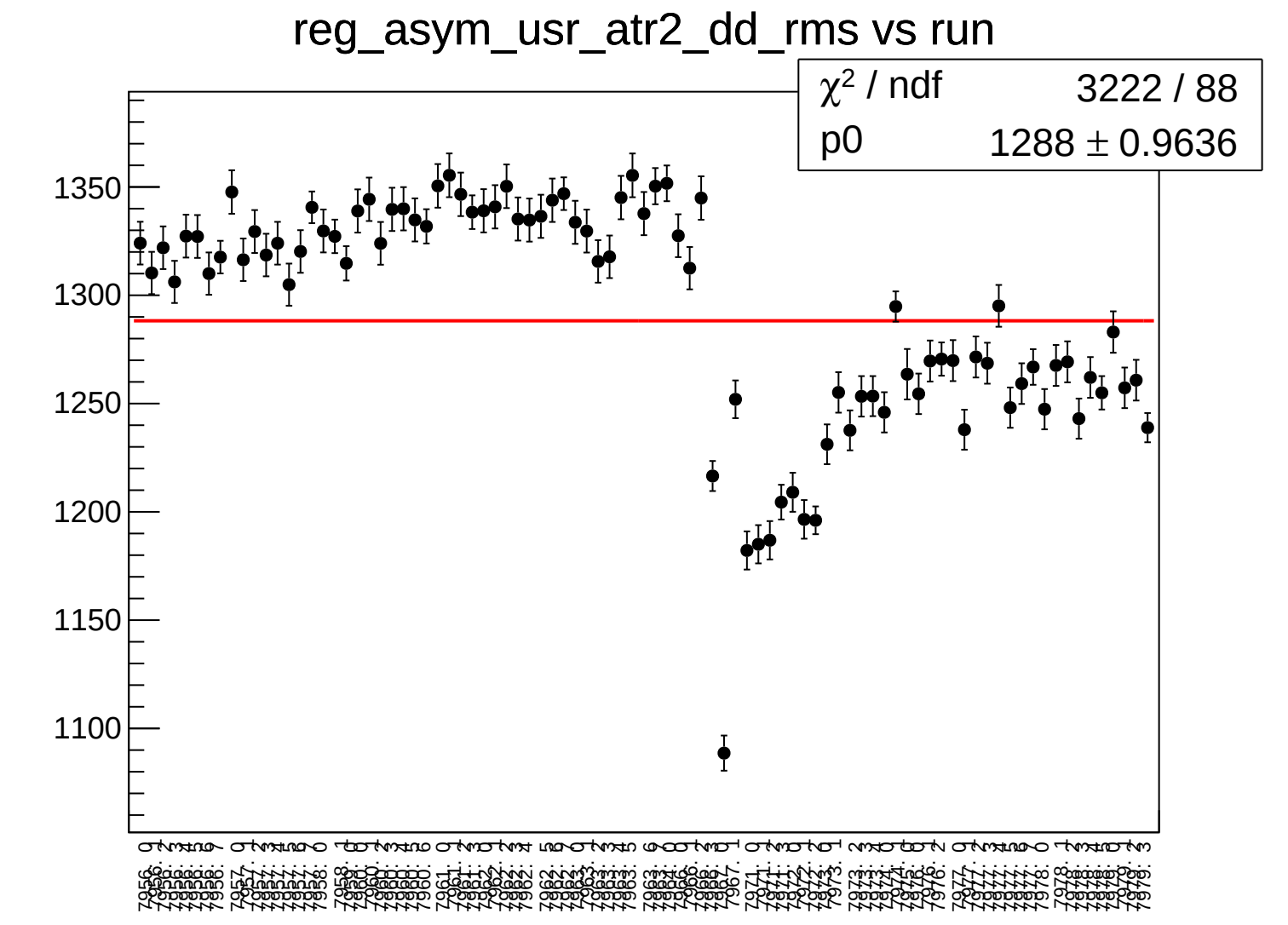

pull1D
Entries 89
Mean −0.0234
Std Dev 1.009

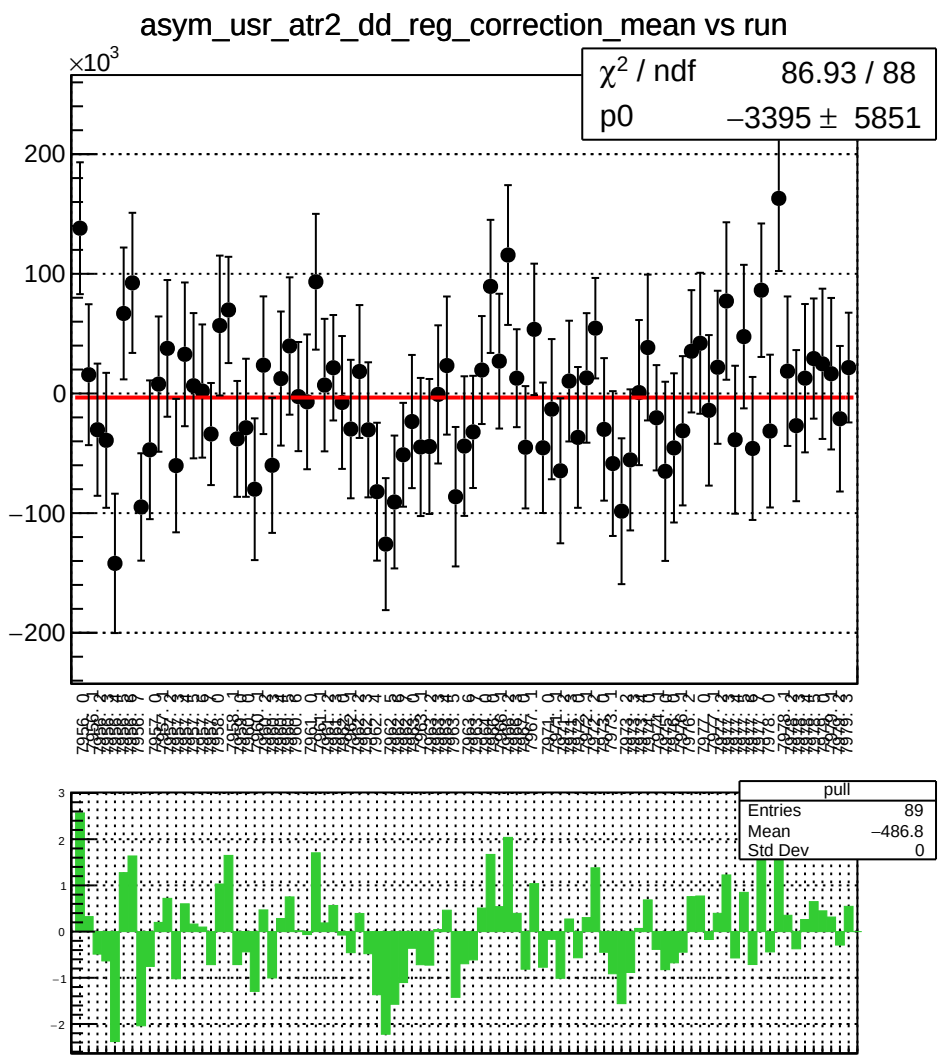

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.505e+05 / 88
p0 326.4 ± 0.2548
700
600
500
400
300
200

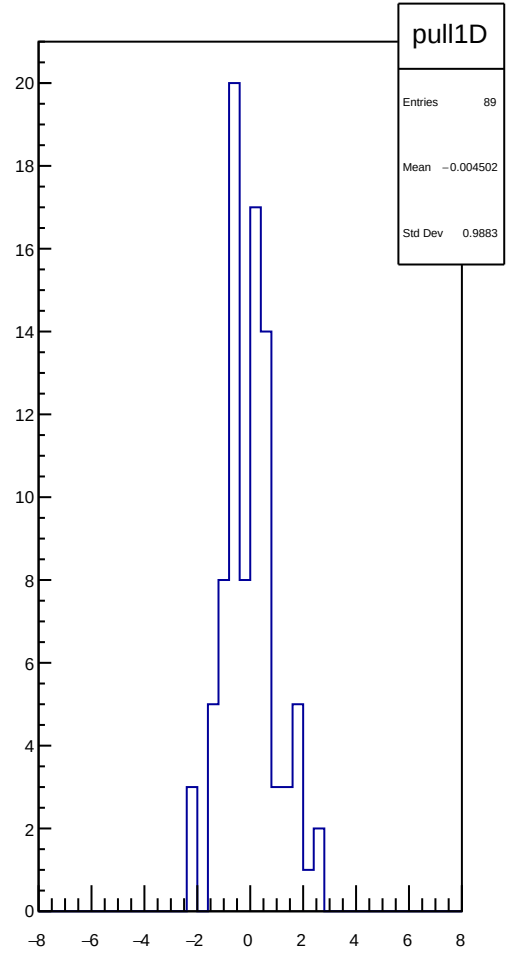

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.2 / 88
p0 −1.506e−12 ± 8.004e−13
pull
Entries 89
Mean 136.2
Std Dev 0
pull1D
Entries 89
Mean −0.0442
Std Dev 1.022

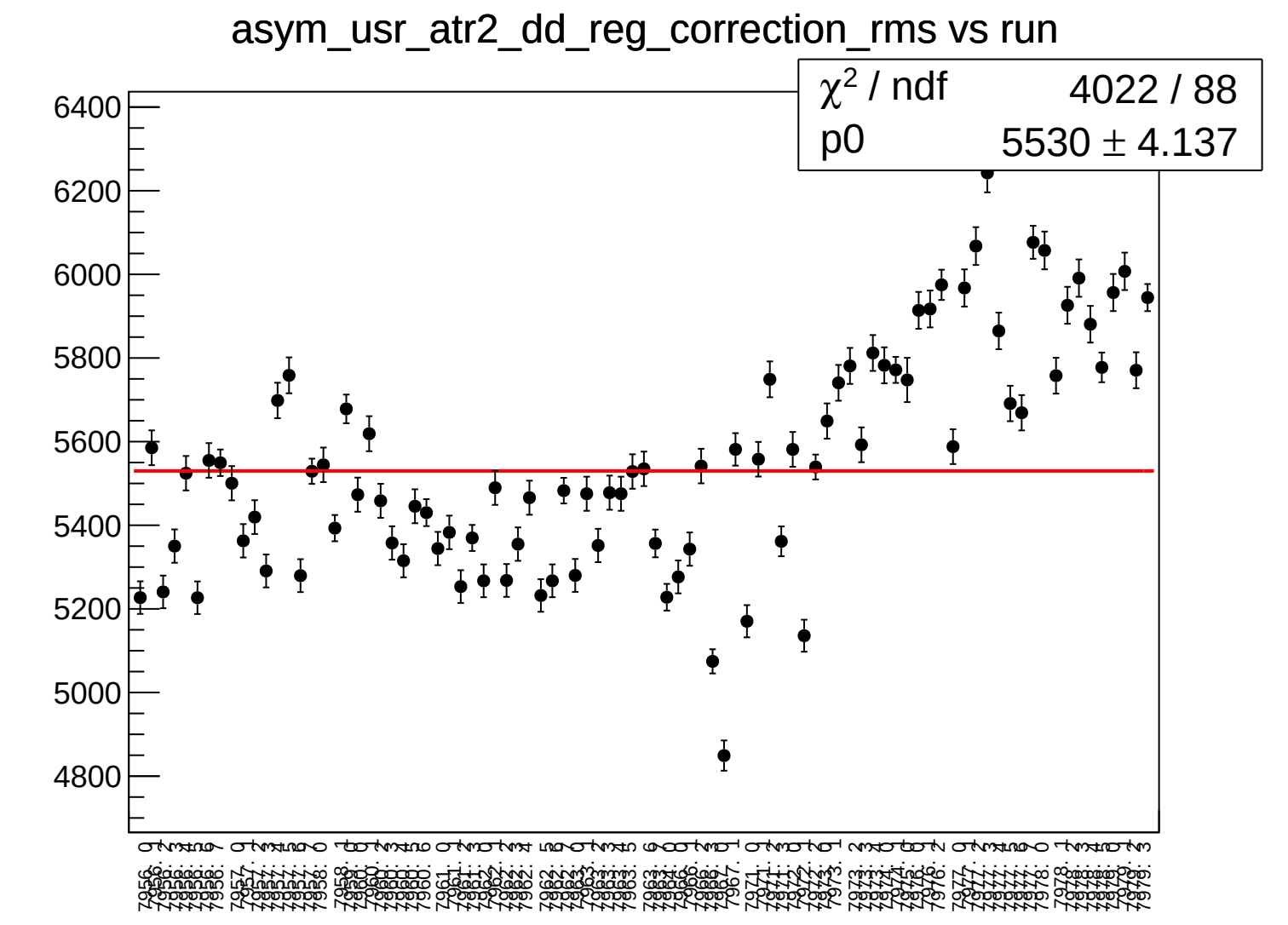

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.74e+05 / 88
p0 5.981e−10 ± 5.66e−13
3.5
3
2.5
2
1.5
1
0.5

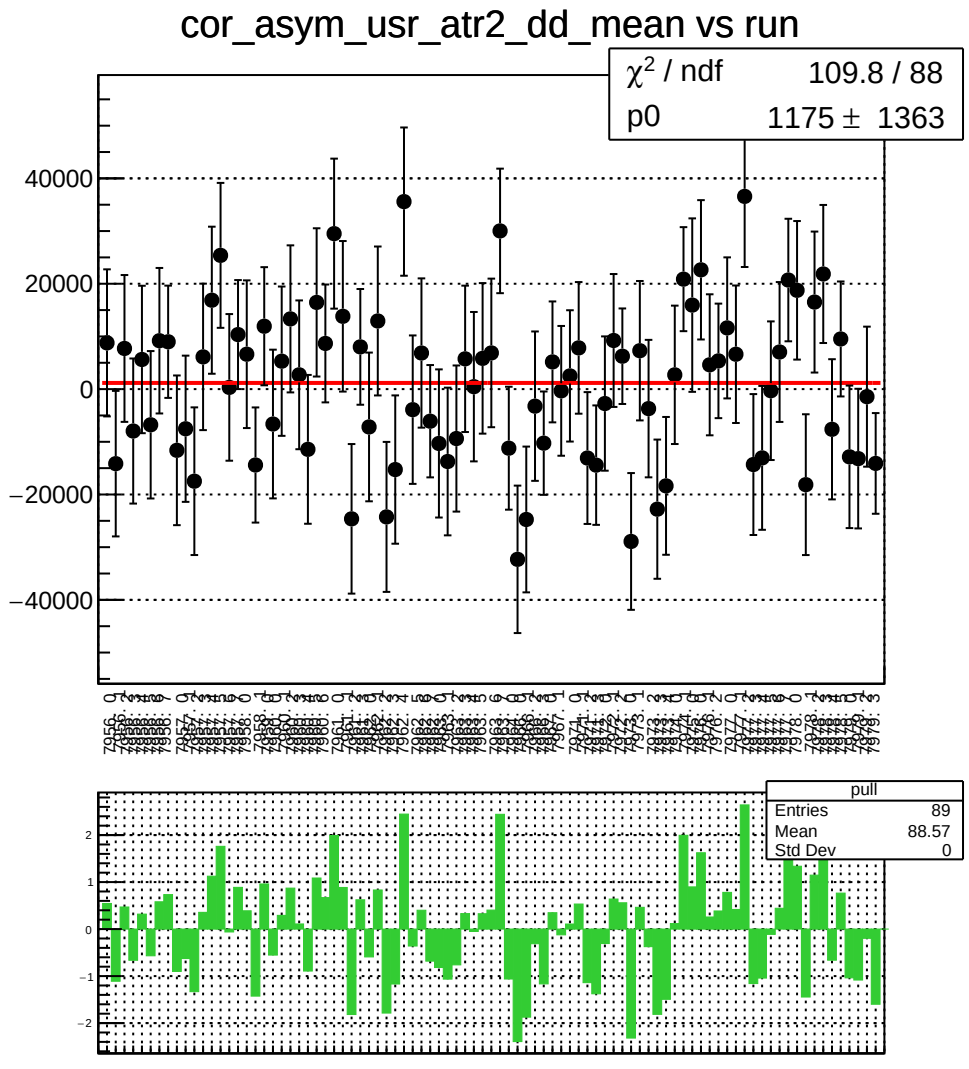

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 109.8 / 88
p0 1175 ± 1363
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 88.61
Std Dev 0
pull1D
Entries 89
Mean −0.00867
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

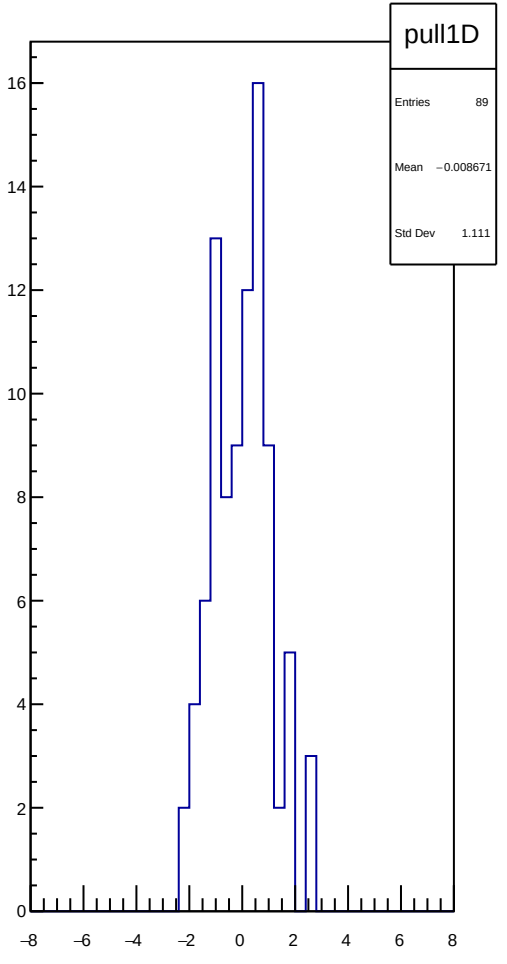

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 3222 / 88
p0 1288 ± 0.9636
1350
1300
1250
1200
1150
1100

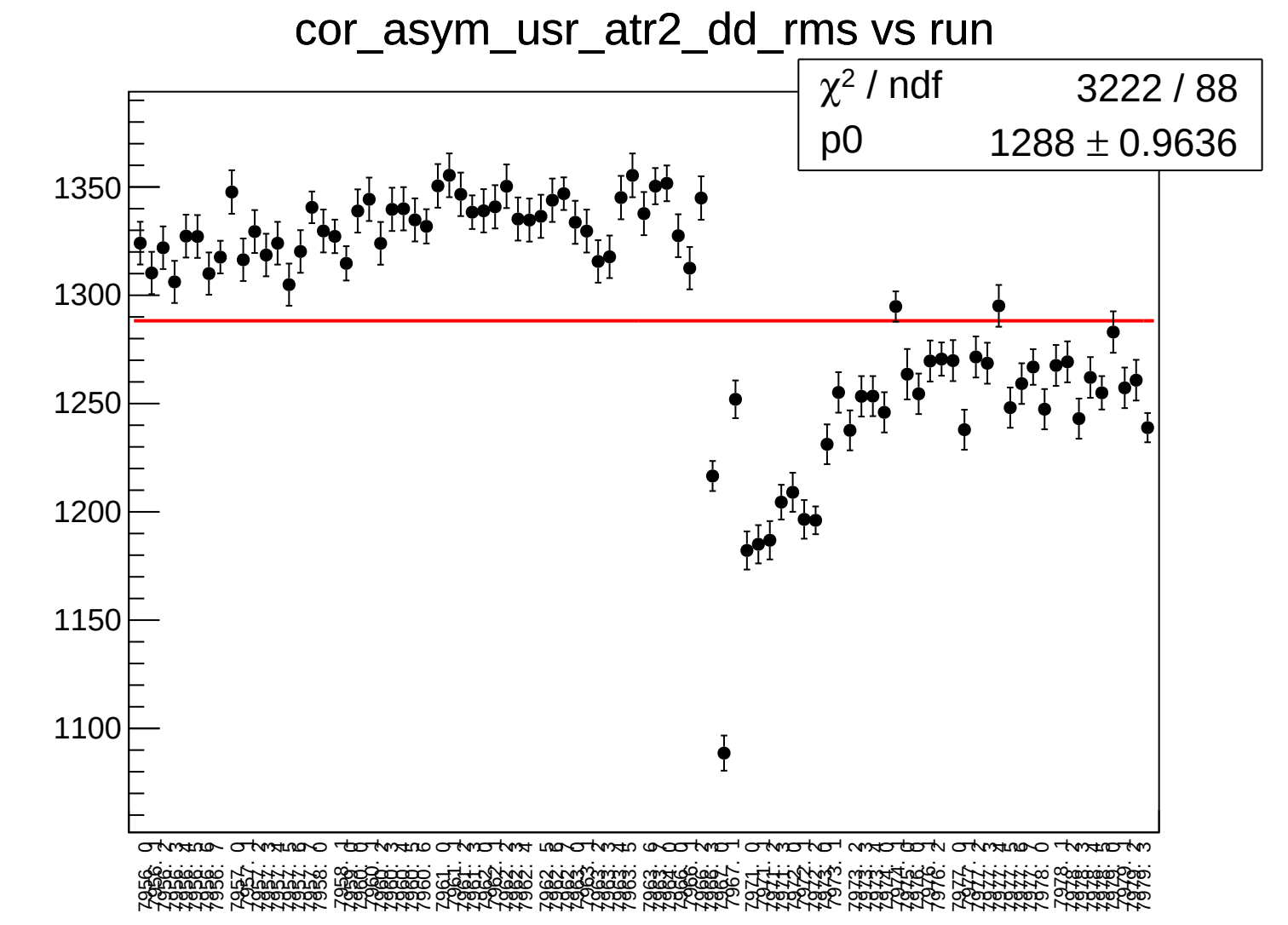

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.93 / 88
p0 −3395 ± 5851
200
100
0
−100
−200
pull
Entries 89
Mean −486.8
Std Dev 0
3
2
1
0
−1
−2

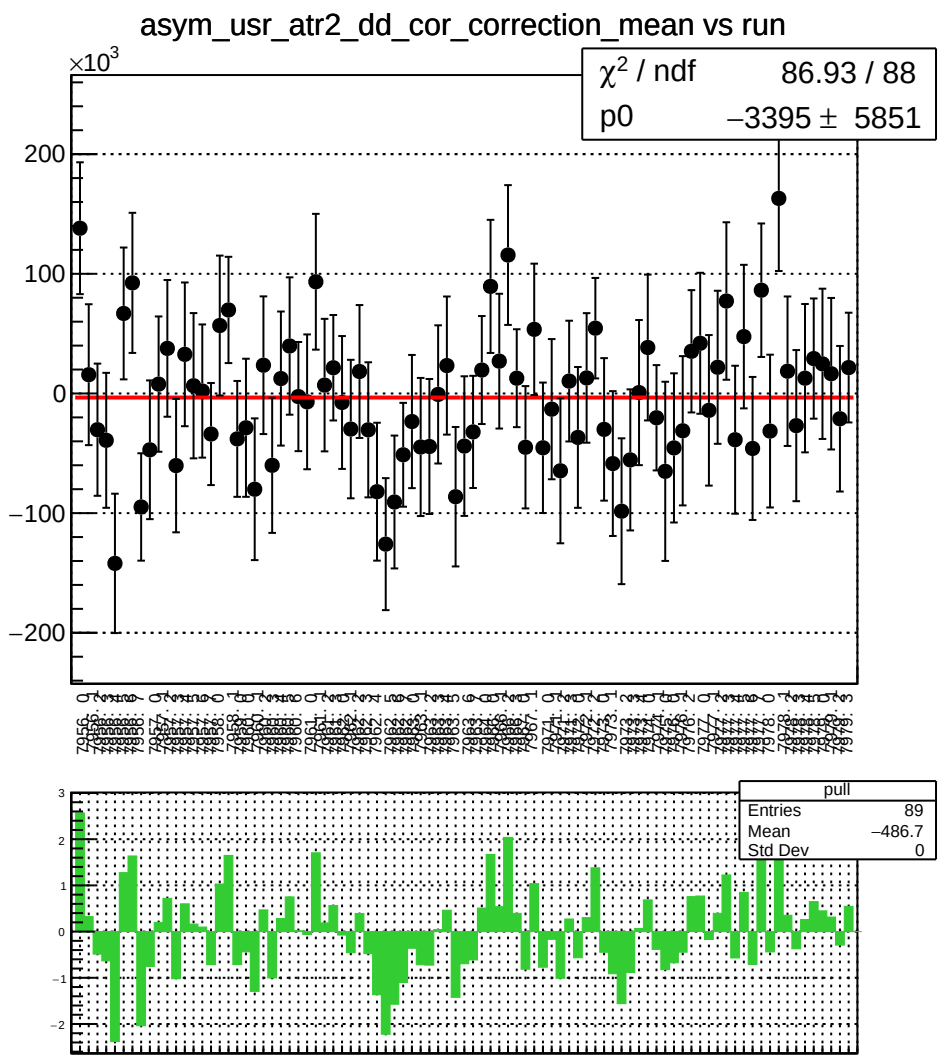

pull1D
Entries 89
Mean −0.004502
Std Dev 0.9883
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

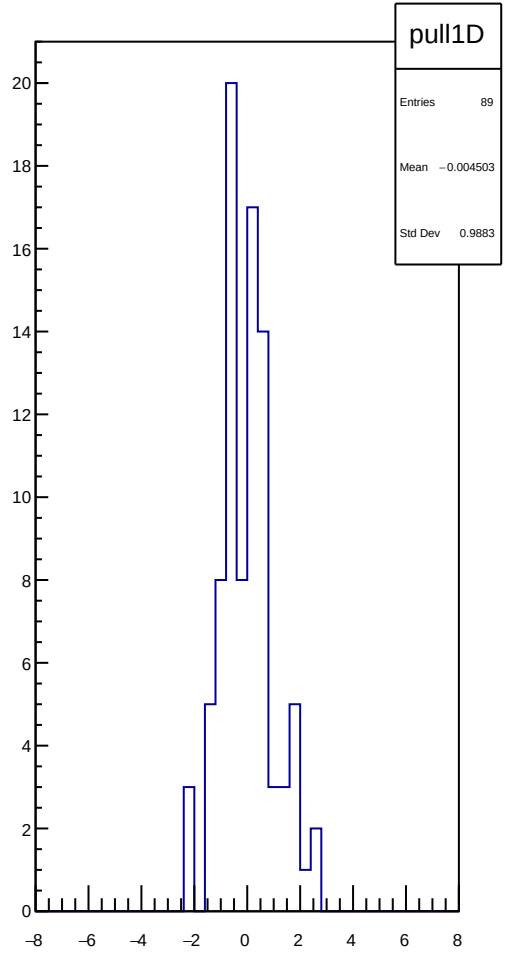

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 4022 / 88
p0 5530 ± 4.137
6400
6200
6000
5800
5600
5400
5200
5000
4800

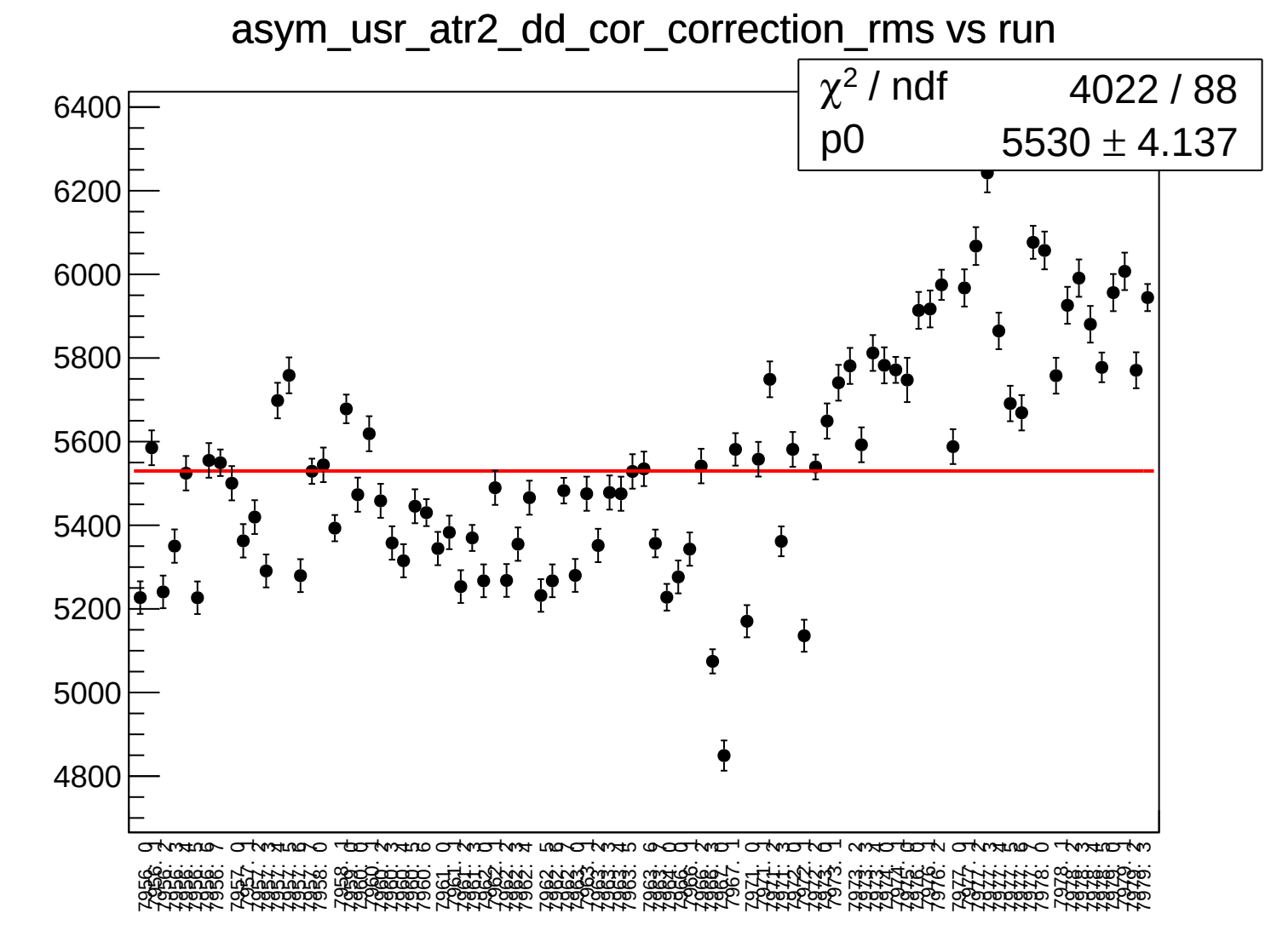

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 109.8 / 88
p0 1175 ± 1363
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 88.57
Std Dev 0
2
1
0
−1
−2

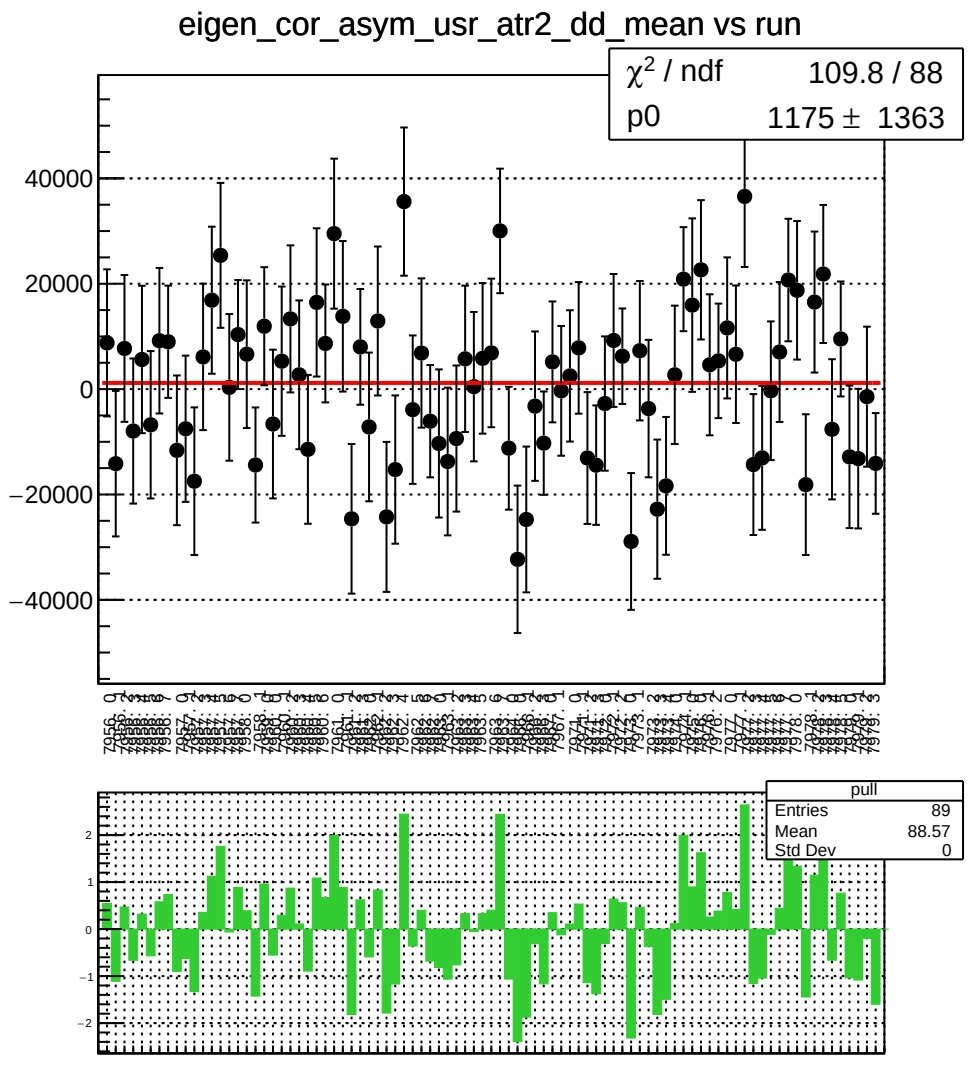

pull1D
Entries 89
Mean −0.008671
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

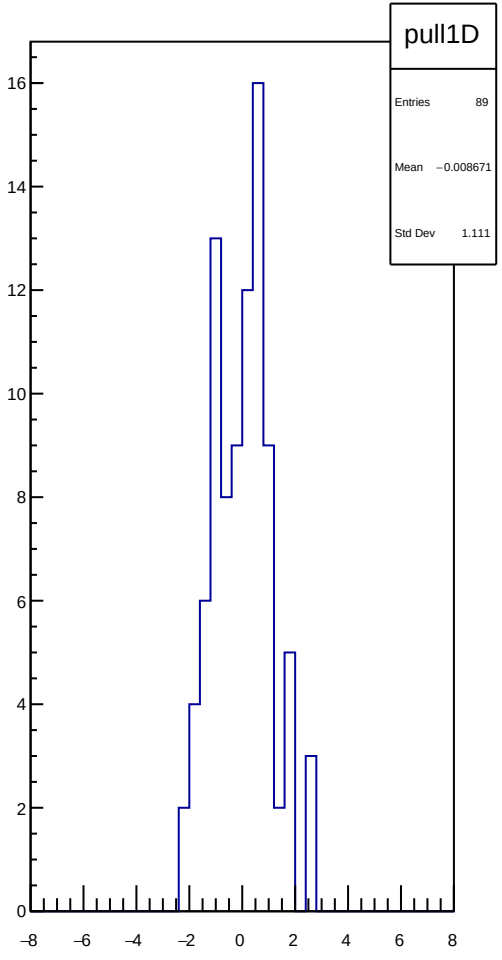

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 3222 / 88
p0 1288 ± 0.9636
1350
1300
1250
1200
1150
1100

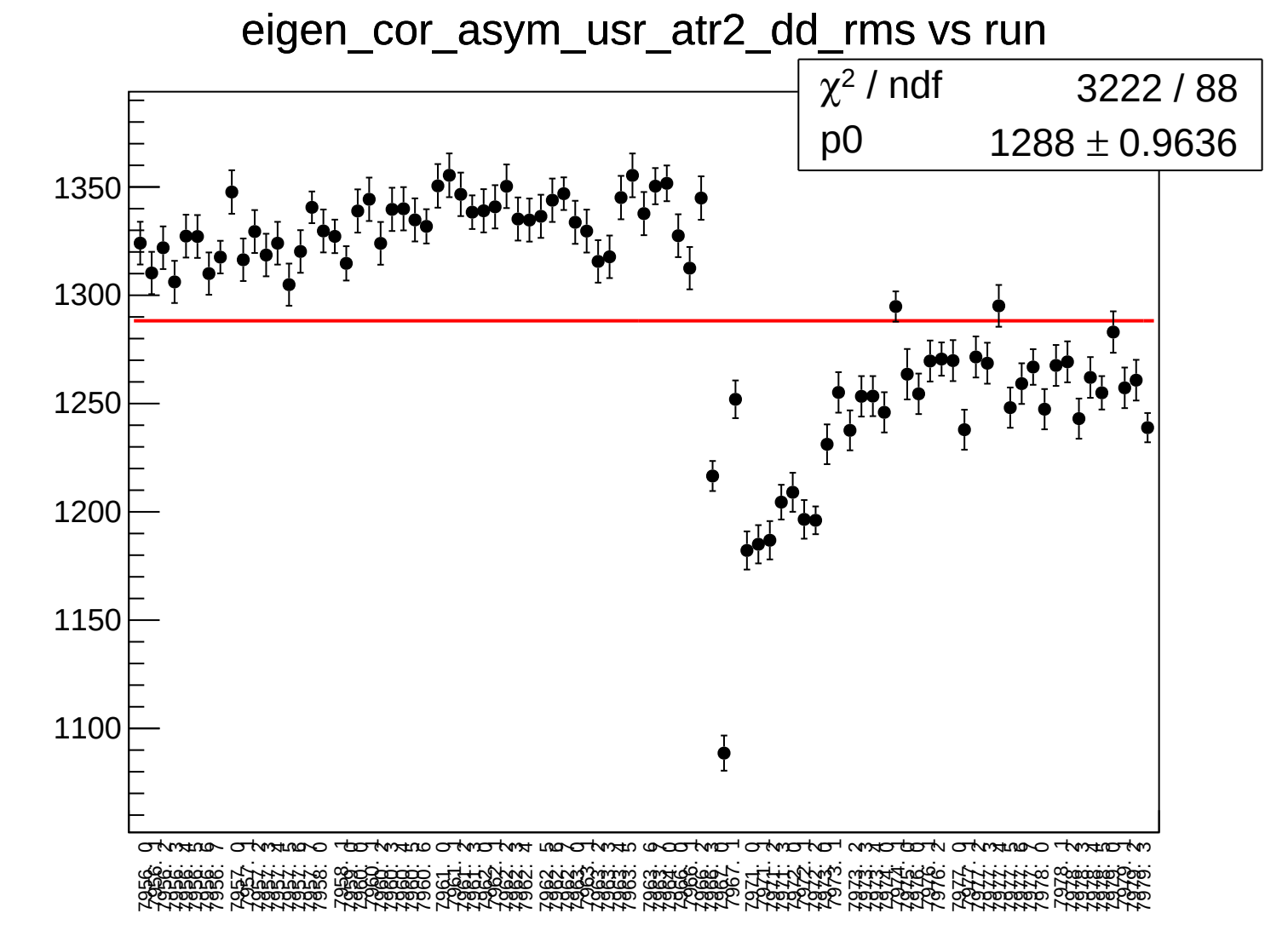

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.93 / 88
p0 −3395 ± 5851
200
100
0
−100
−200
pull
Entries 89
Mean −486.7
Std Dev 0
3
2
1
0
−1
−2

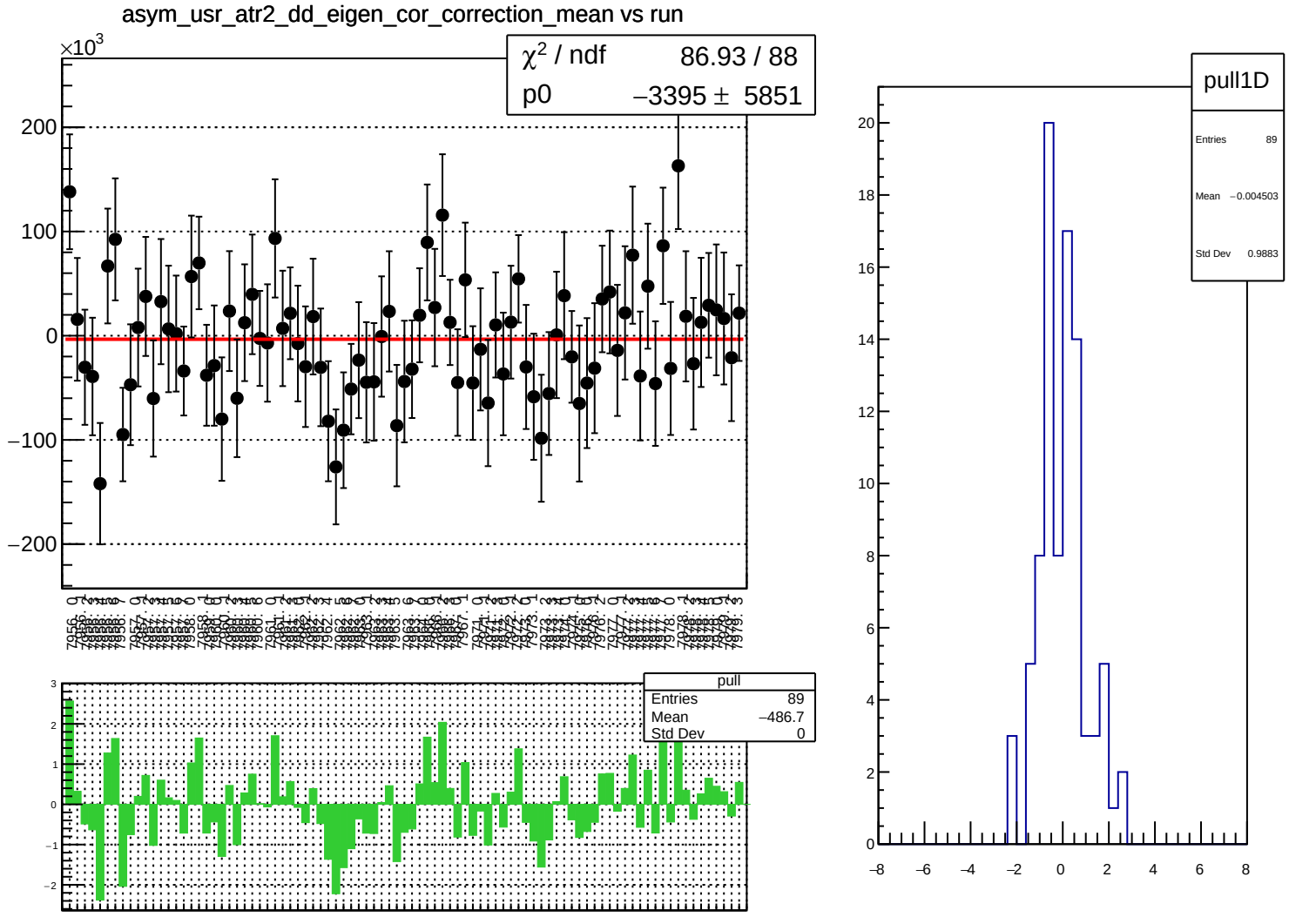

pull1D
Entries 89
Mean −0.004503
Std Dev 0.9883
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

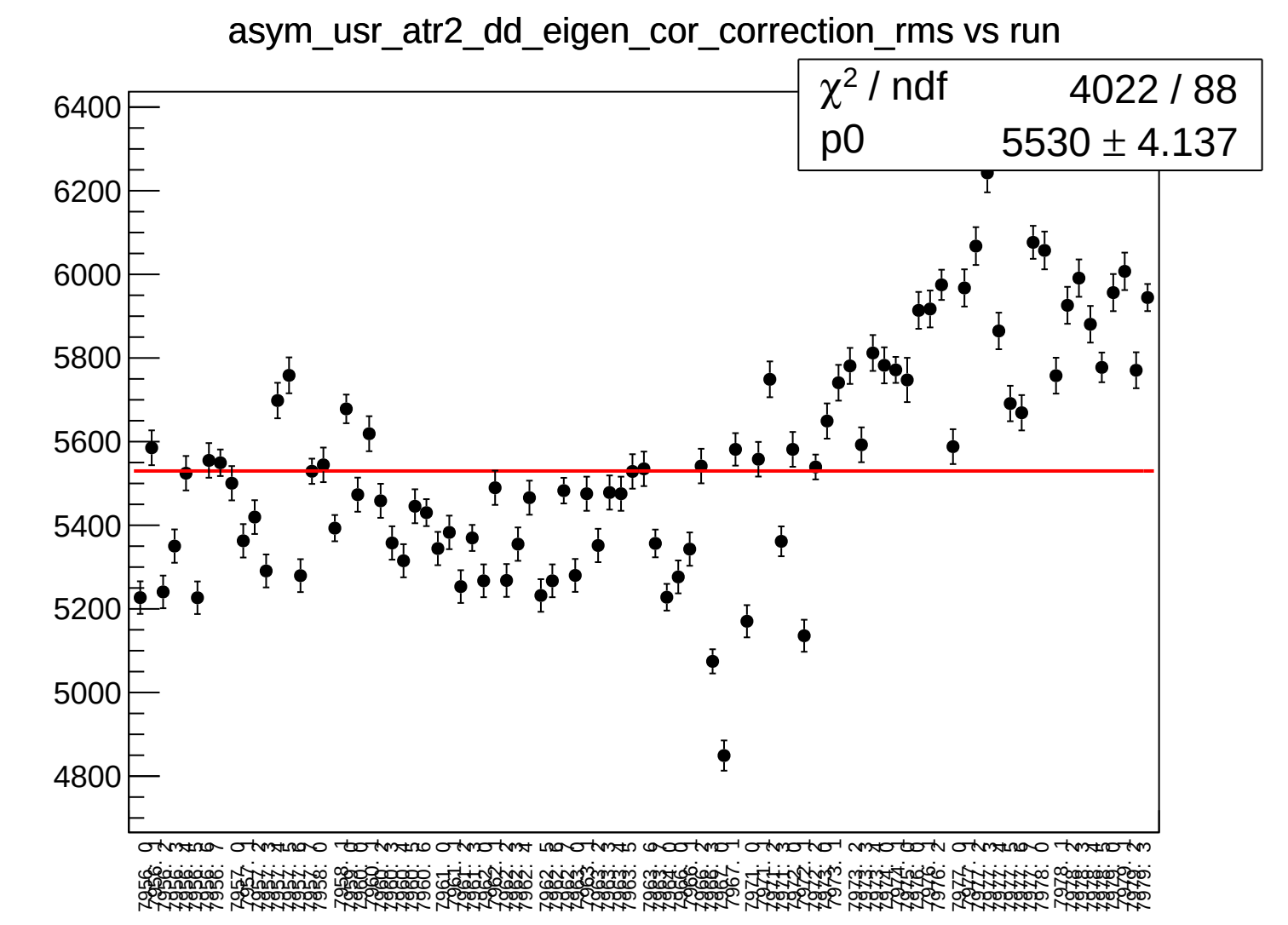

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 4022 / 88
p0 5530 ± 4.137
6400
6200
6000
5800
5600
5400
5200
5000
4800

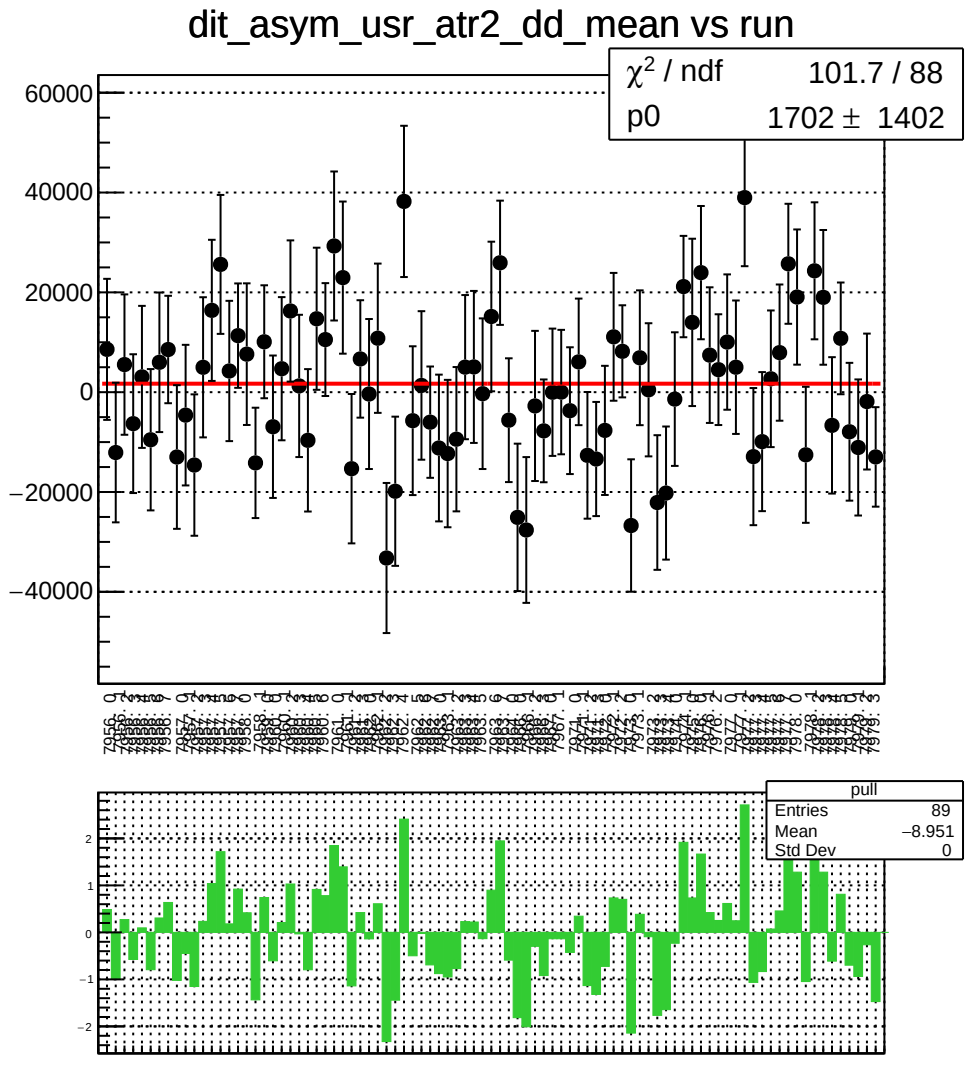

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 109.8 / 88
p0 1175 ± 1363
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 88.57
Std Dev 0
2
1
0
−1
−2

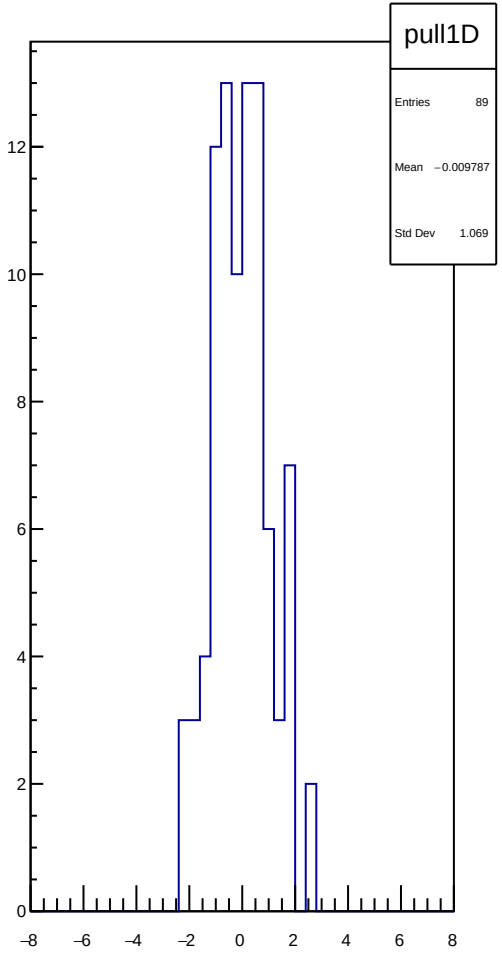

pull1D
Entries 89
Mean −0.008671
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

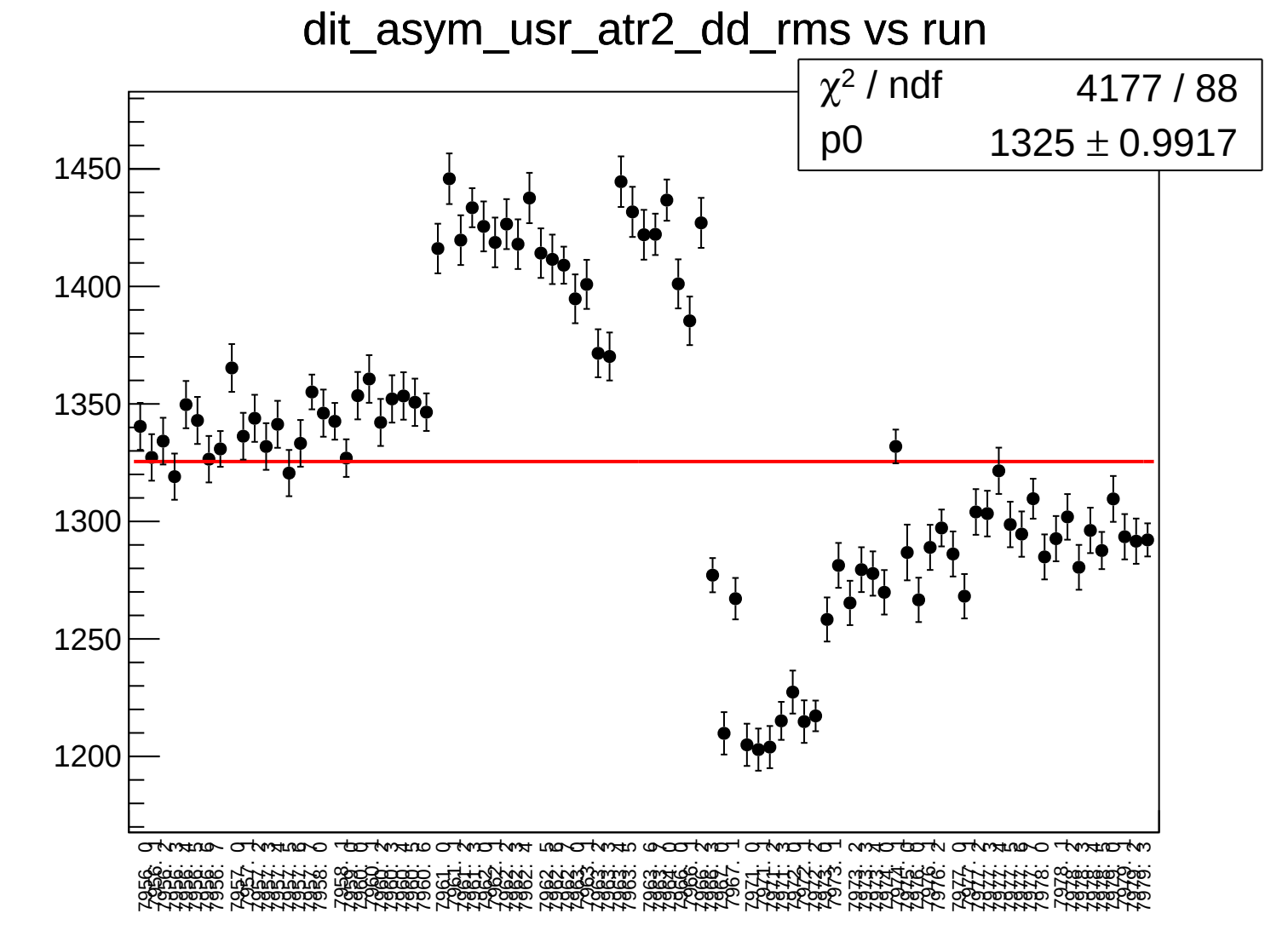

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 3222 / 88
p0 1288 ± 0.9636
1350
1300
1250
1200
1150
1100

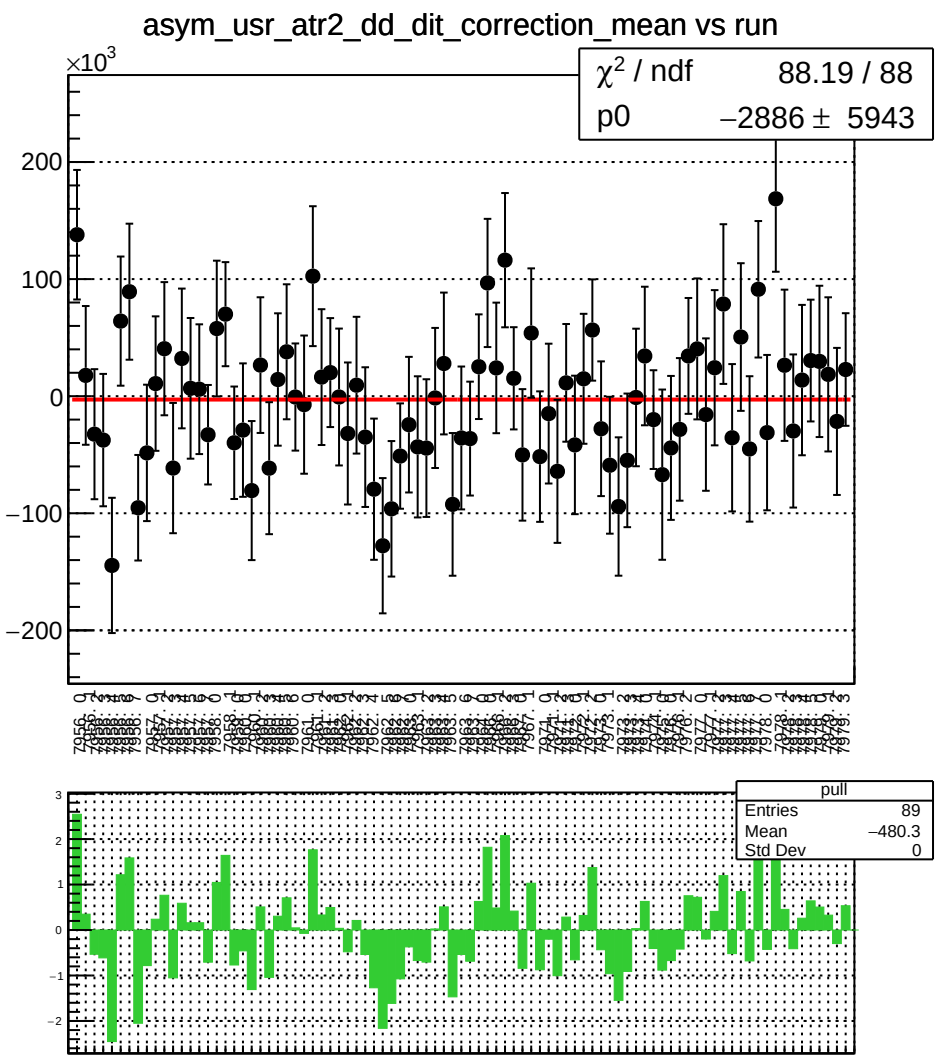

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.93 / 88
p0 −3395 ± 5851
200
100
0
−100
−200
pull
Entries 89
Mean −486.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.004503
Std Dev 0.9883
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

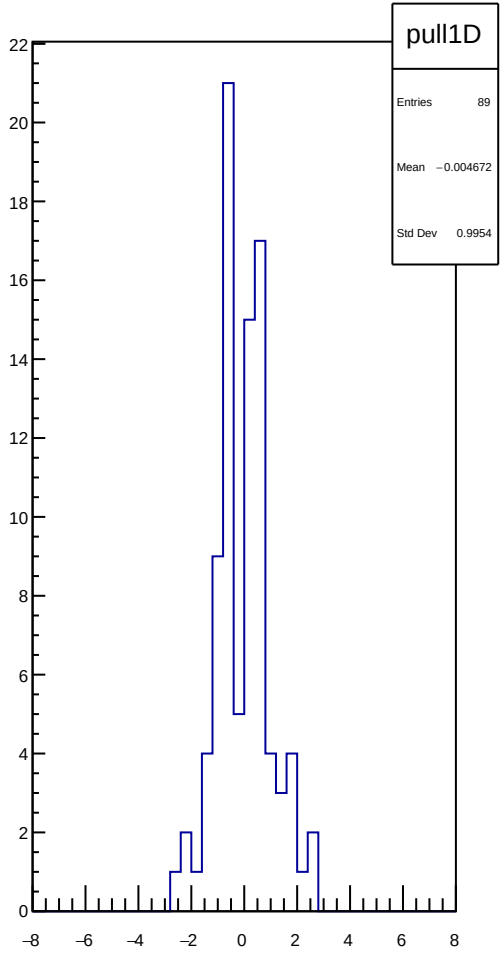

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4022 / 88
p0 5530 ± 4.137
6400
6200
6000
5800
5600
5400
5200
5000
4800

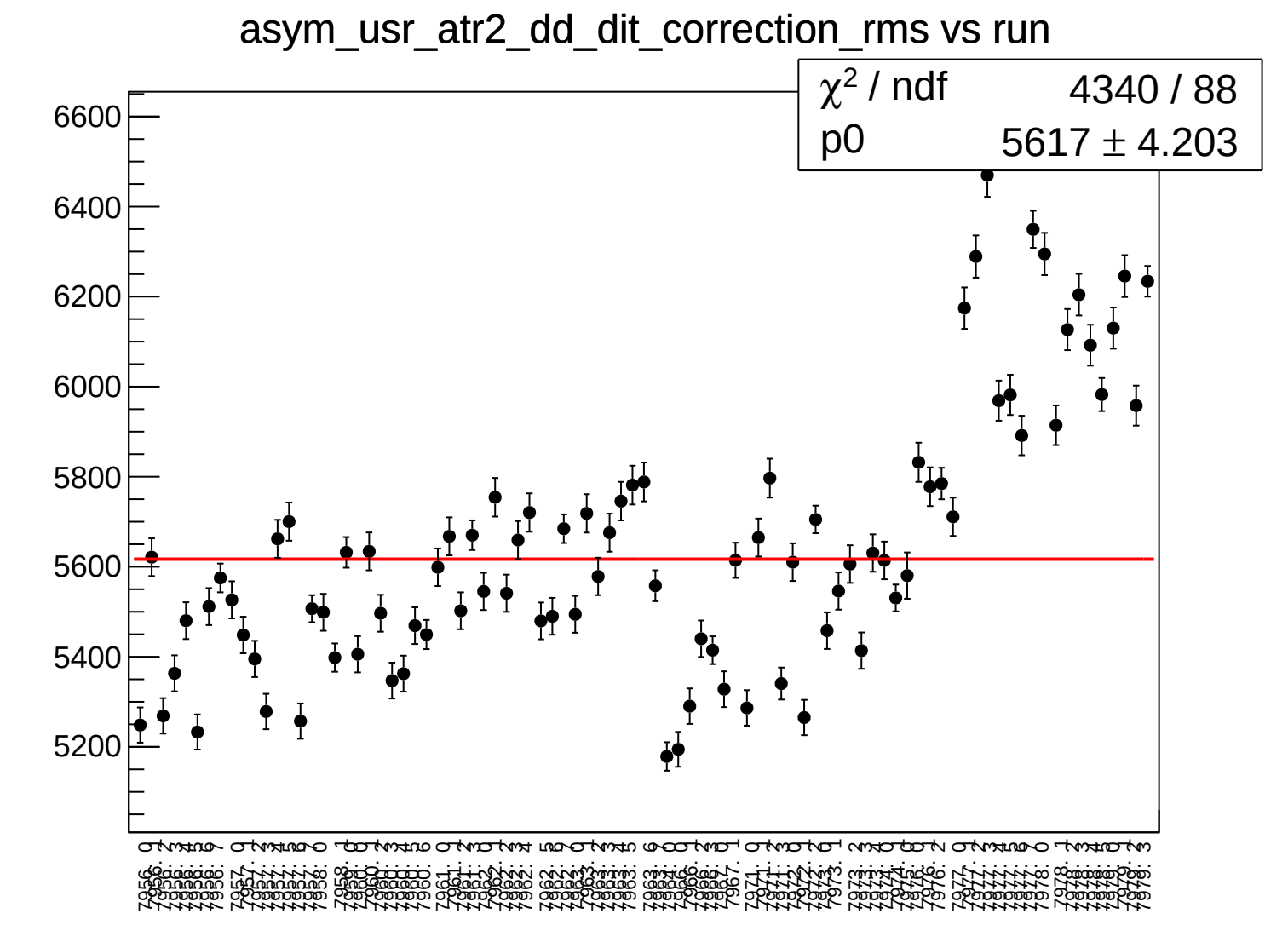

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 101.7 / 88
p0 1702 ± 1402
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −8.951
Std Dev 0
2
1
0
−1
−2

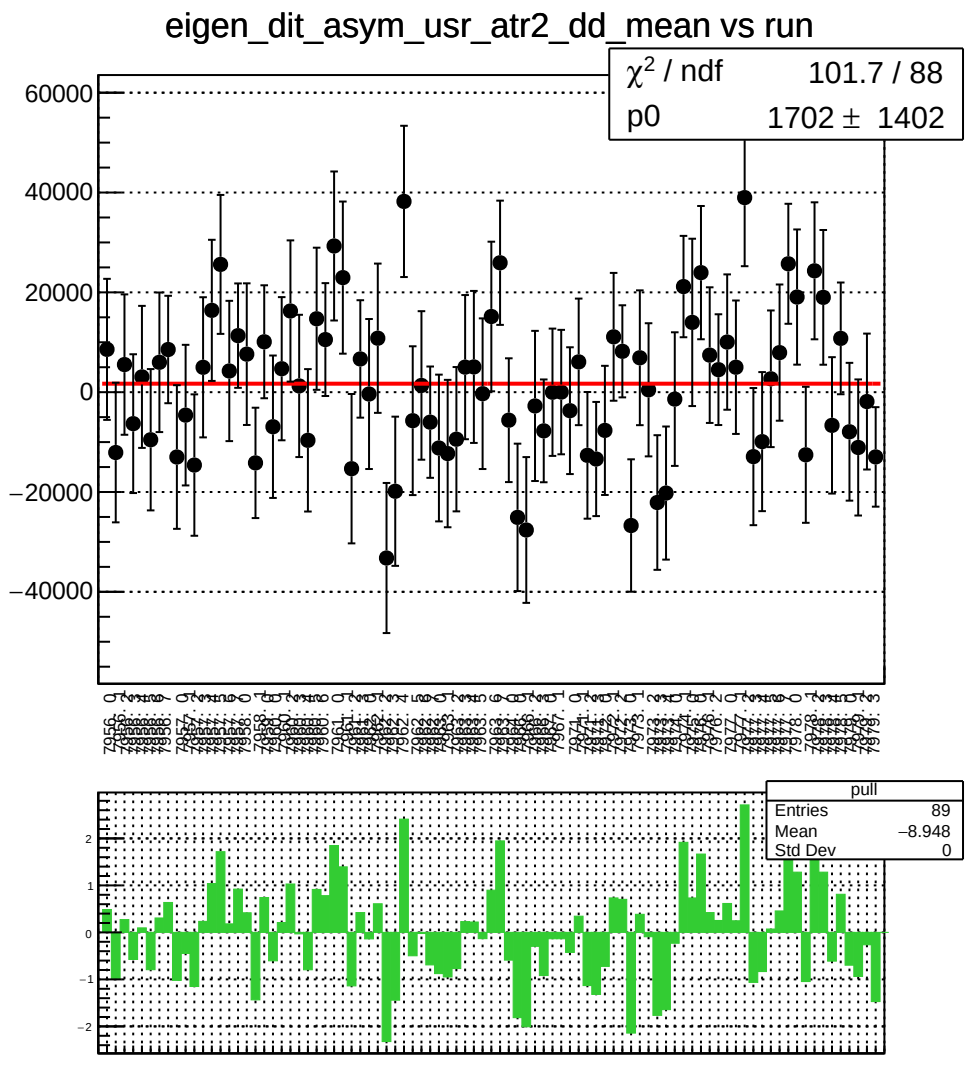

pull1D
Entries 89
Mean −0.009787
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

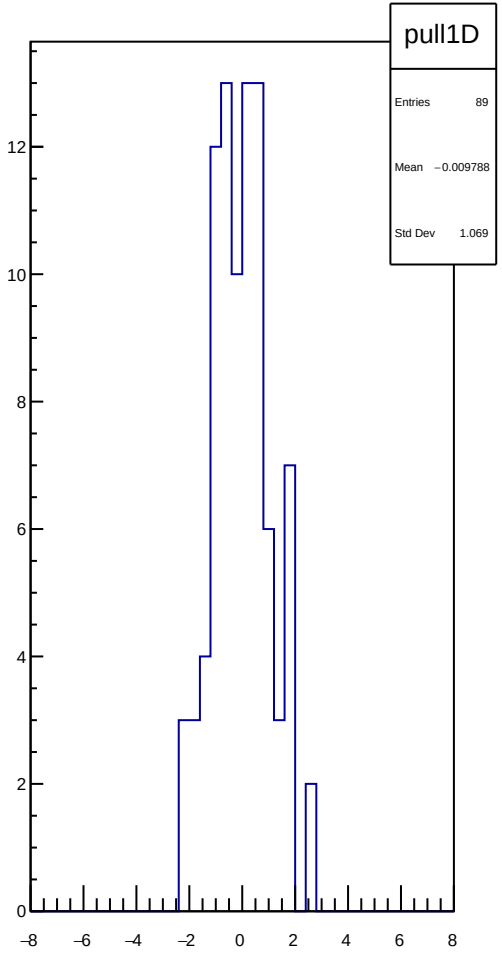

dit_asym_usr_atr2_dd_rms vs run
$\chi^2$ / ndf 4177 / 88
p0 1325 ± 0.9917
1450
1400
1350
1300
1250
1200

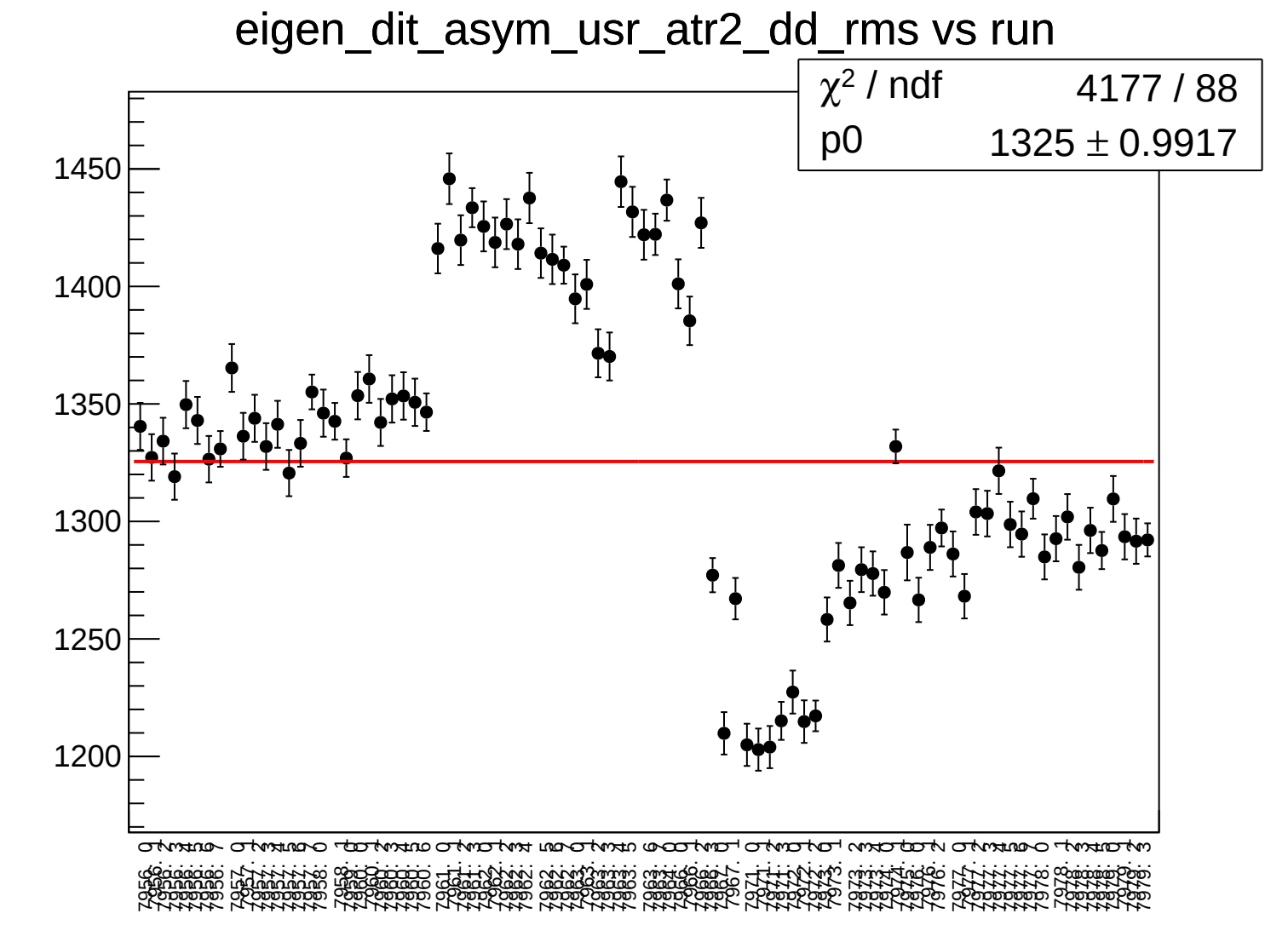

asym_usr_atr2_dd_dit_correction_mean vs run
χ² / ndf 88.19 / 88
p0 −2886 ± 5943
×10³
200
100
0
−100
−200
pull
Entries 89
Mean −480.3
Std Dev 0
3
2
1
0
−1
−2

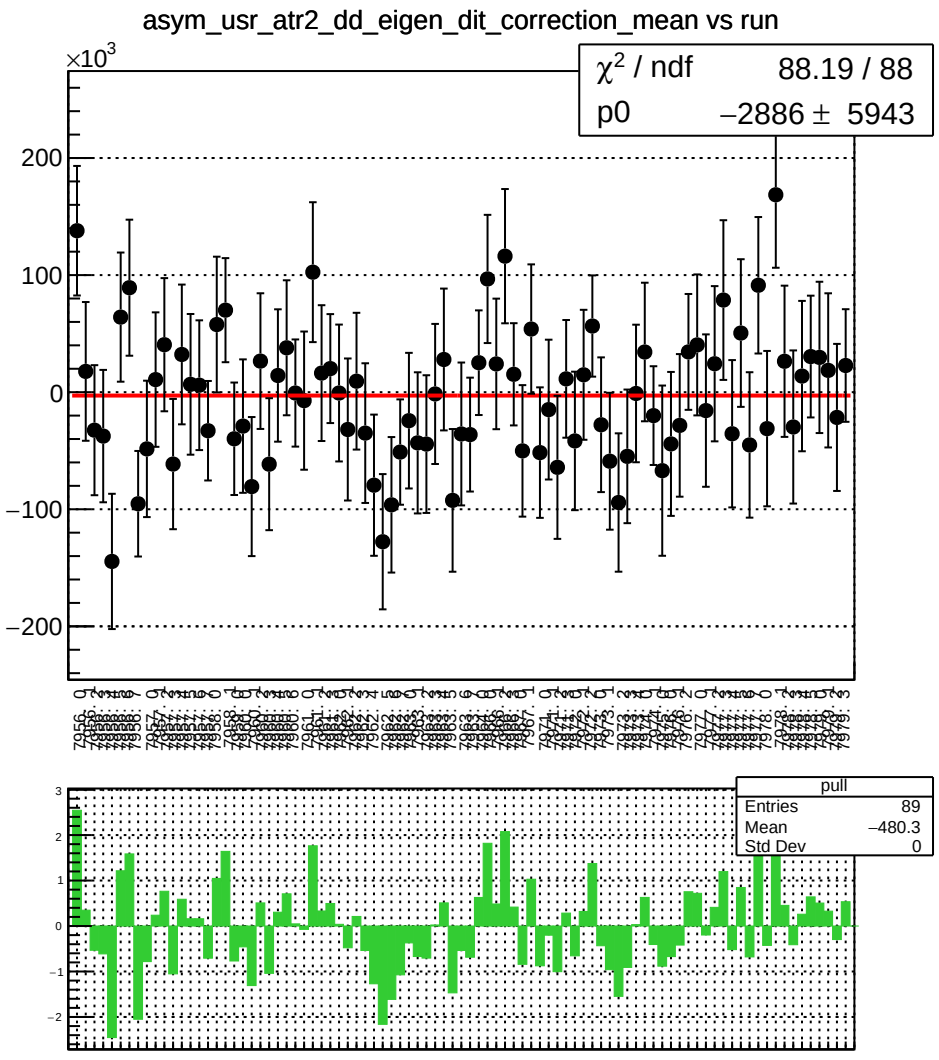

pull1D
Entries 89
Mean −0.004672
Std Dev 0.9954
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

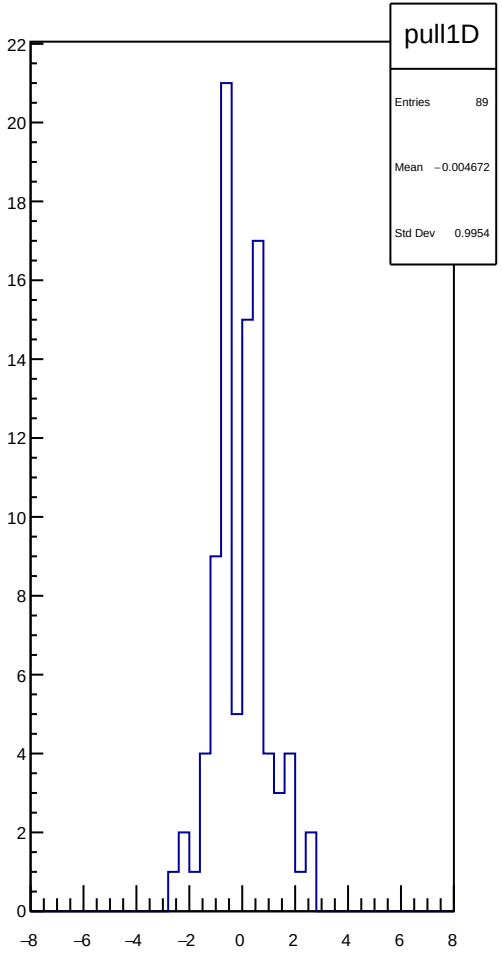

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 4340 / 88
p0 5617 ± 4.203
6600
6400
6200
6000
5800
5600
5400
5200

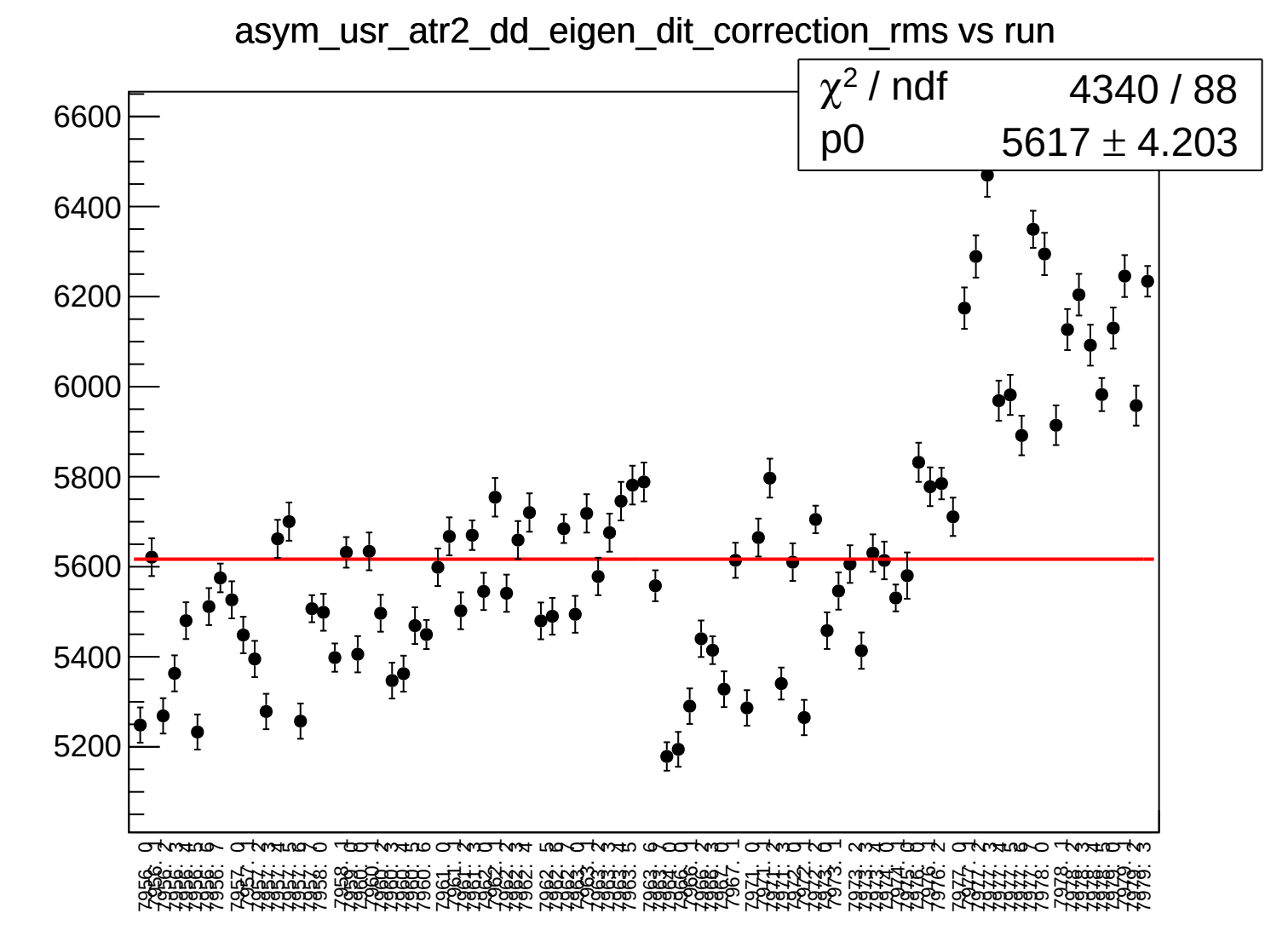

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 101.7 / 88
p0 1702 ± 1402
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −8.948
Std Dev 0
2
1
0
−1
−2

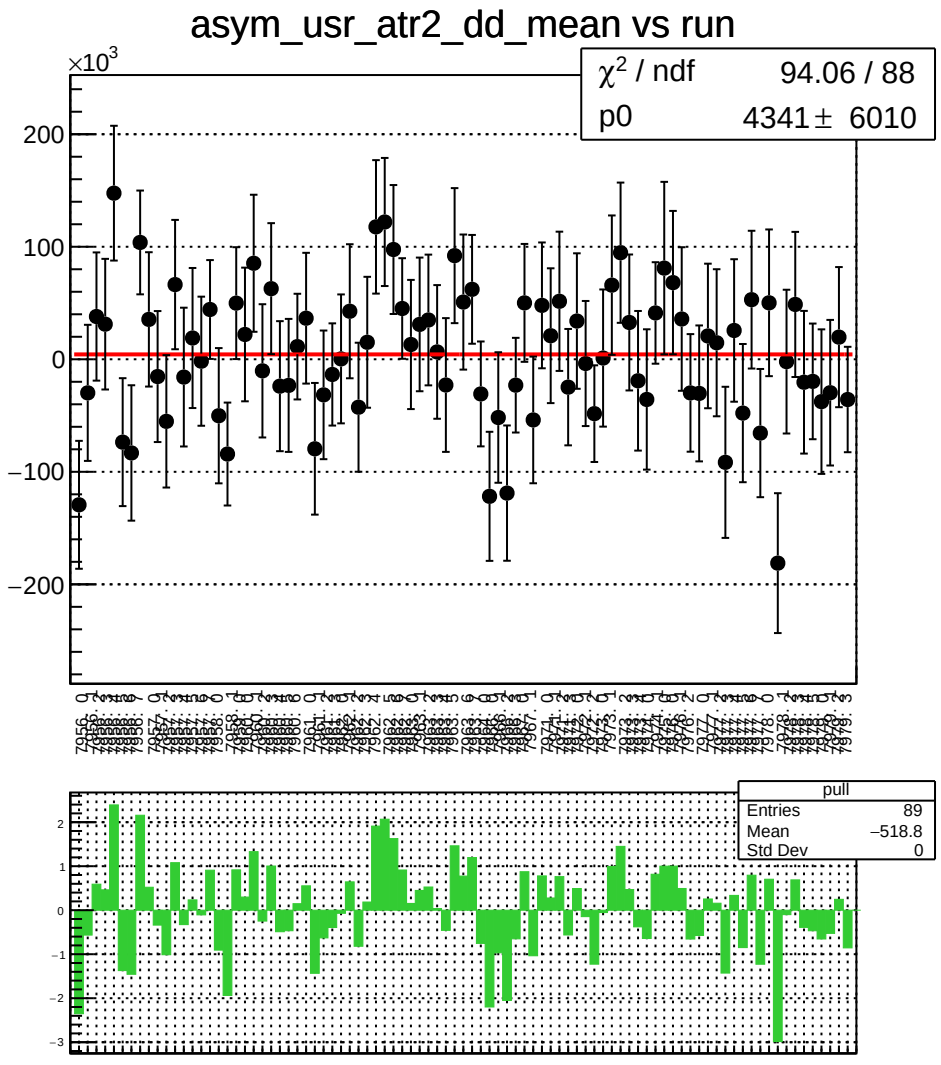

pull1D
Entries 89
Mean −0.009788
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

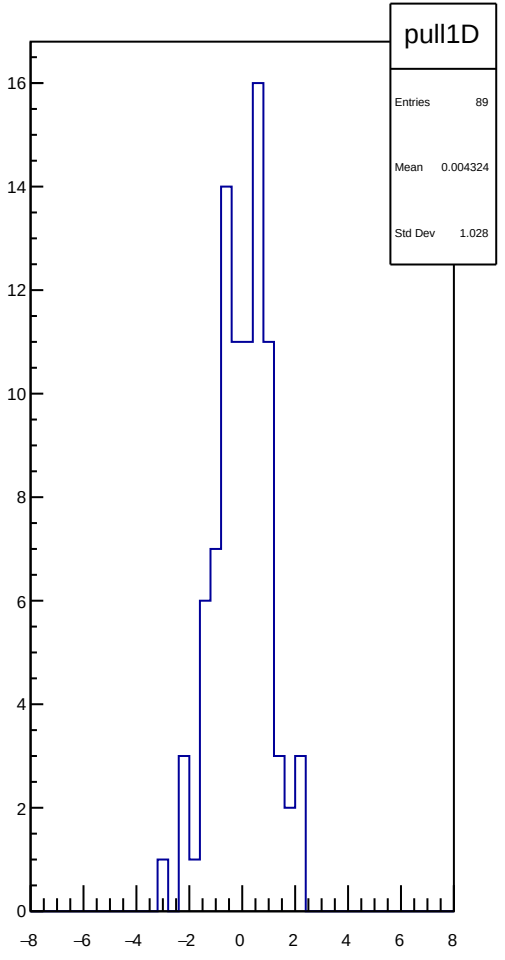

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 4177 / 88
p0 1325 ± 0.9917
1450
1400
1350
1300
1250
1200

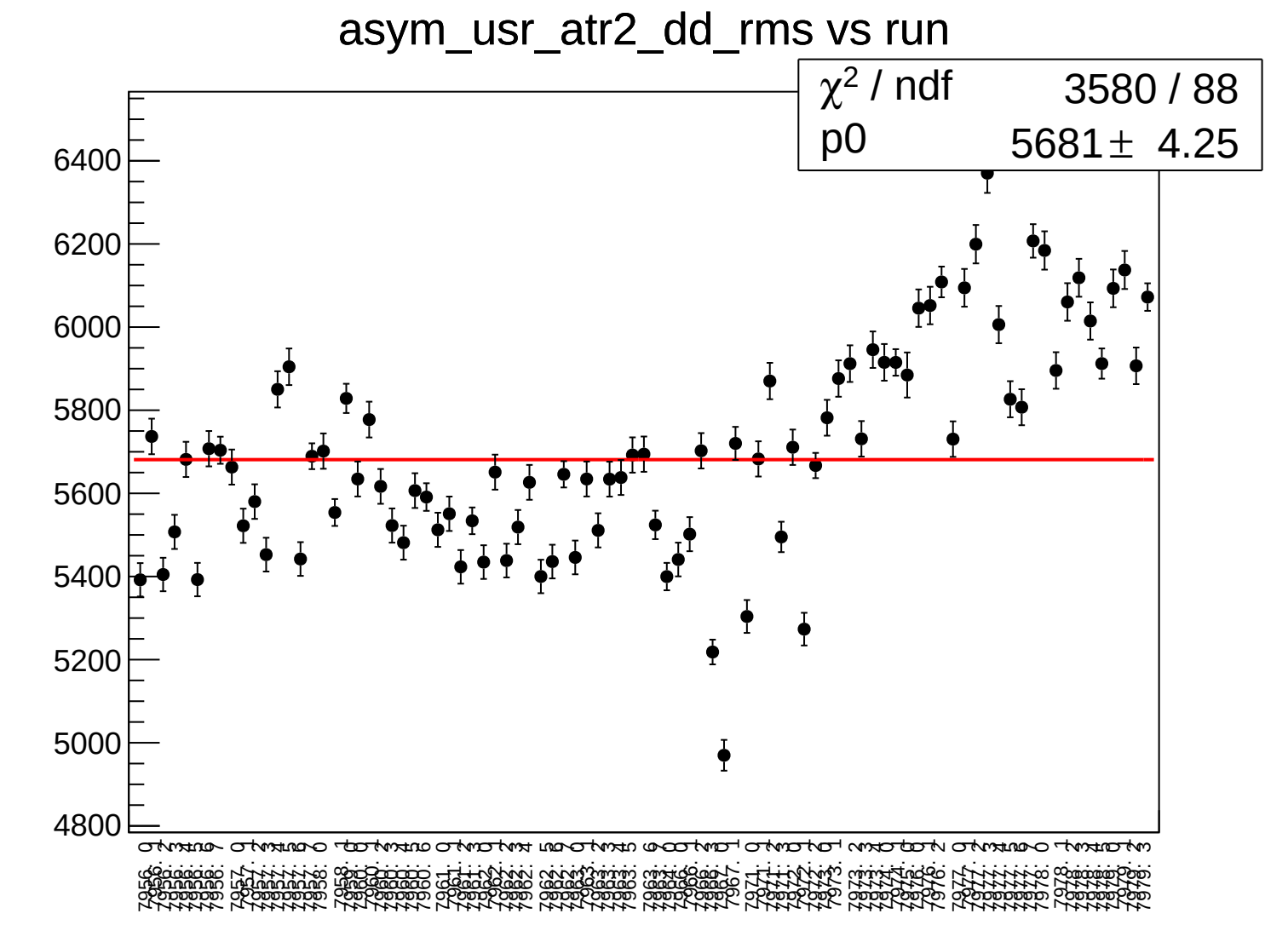

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.19 / 88
p0 −2886 ± 5943
200
100
0
−100
−200
pull
Entries 89
Mean −480.3
Std Dev 0
3
2
1
0
−1
−2

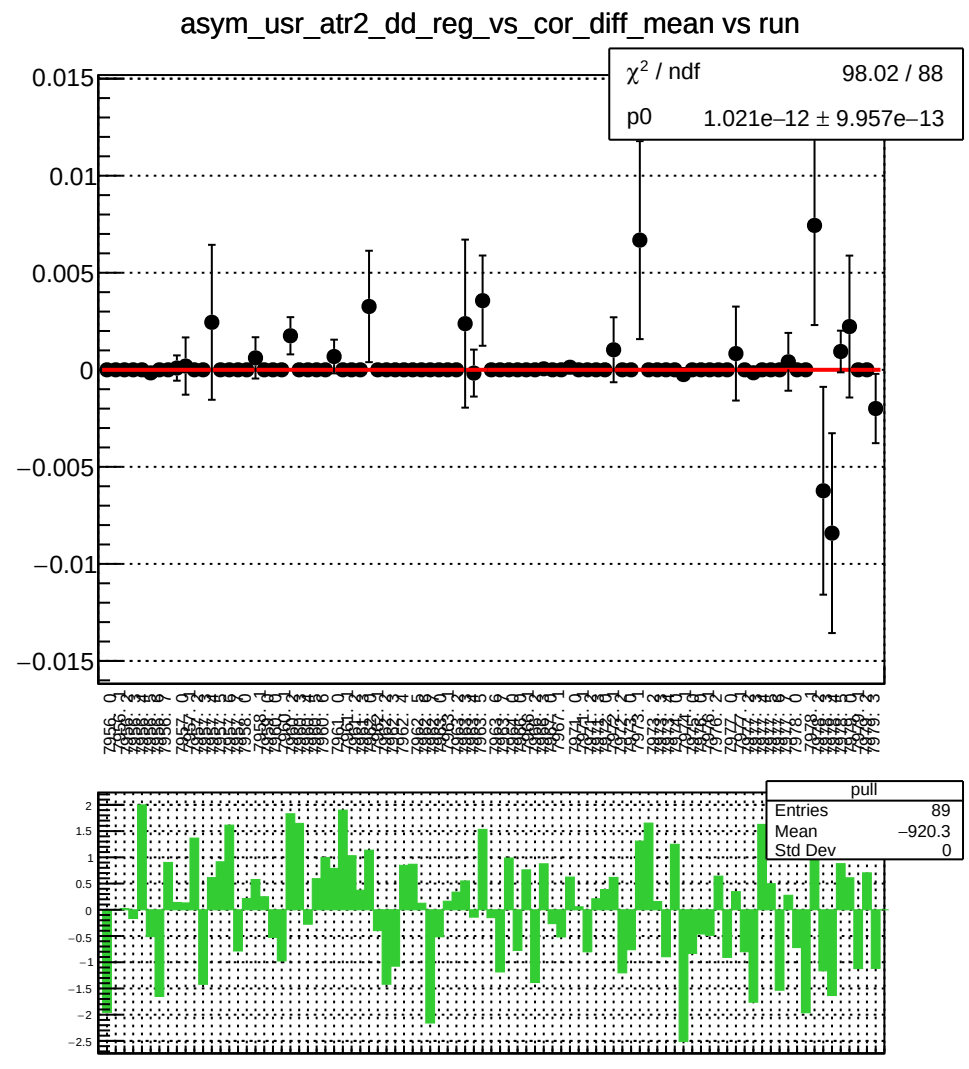

pull1D
Entries 89
Mean −0.004672
Std Dev 0.9954
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

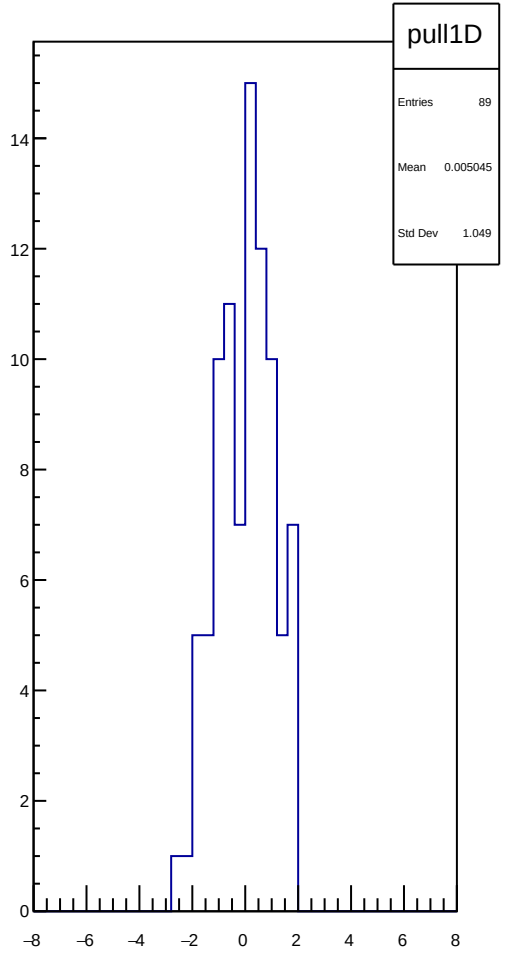

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4340 / 88
p0 5617 ± 4.203
6600
6400
6200
6000
5800
5600
5400
5200

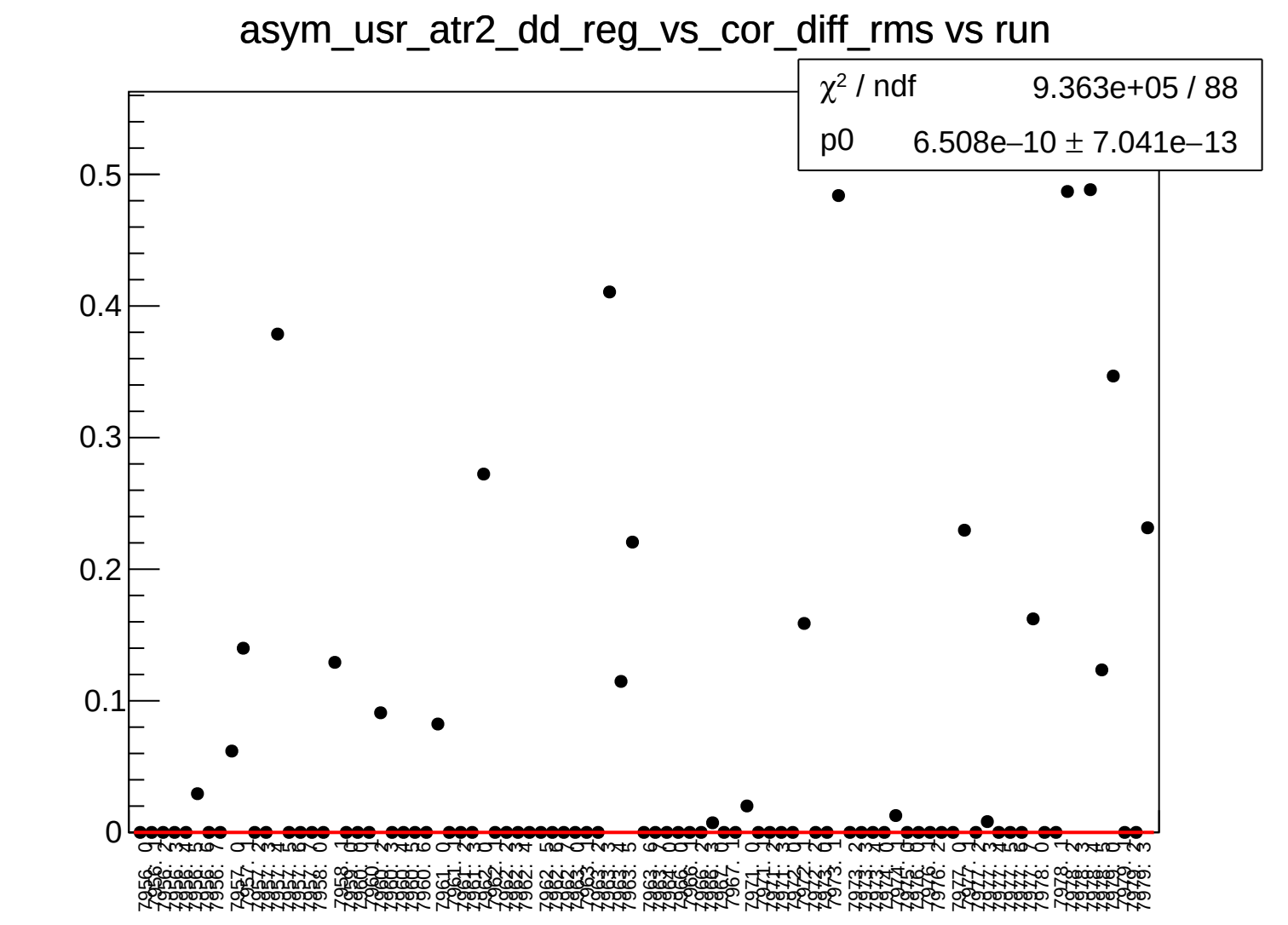

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 94.06 / 88
p0 4341 ± 6010
200
100
0
−100
−200
pull
Entries 89
Mean −518.8
Std Dev 0
2
1
0
−1
−2
−3

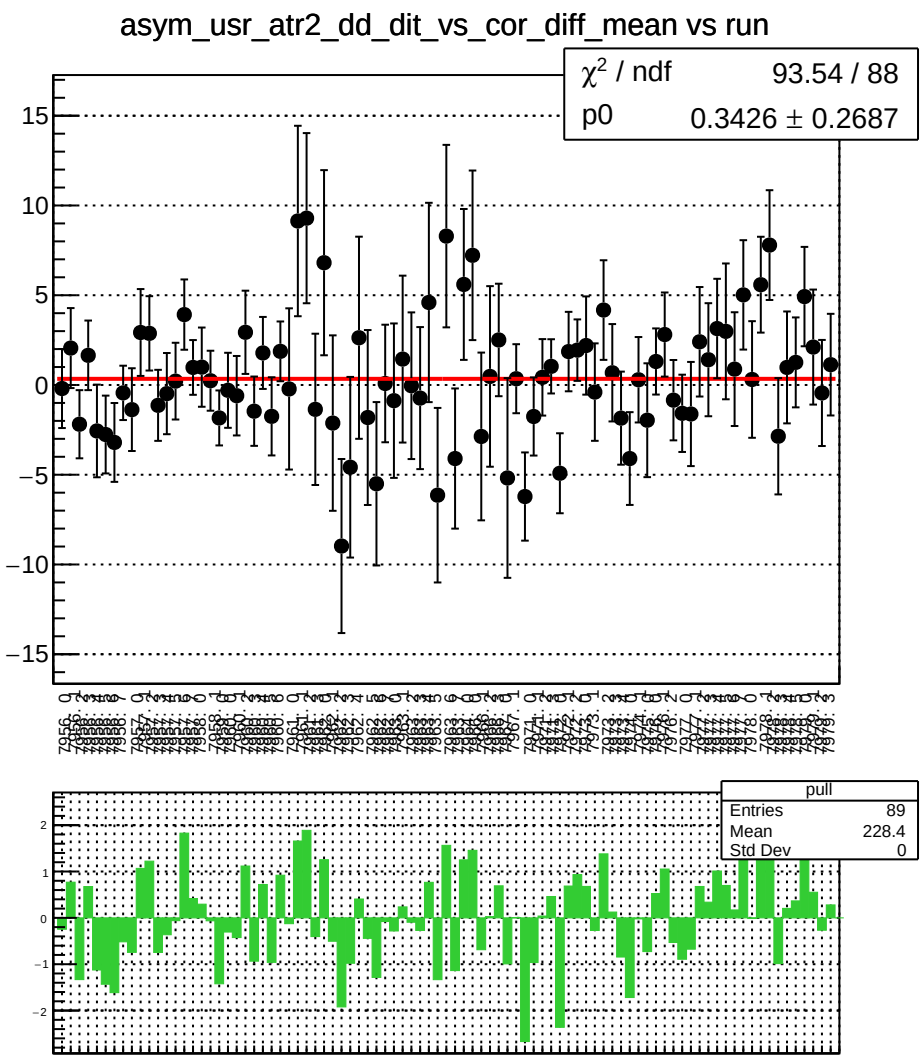

pull1D
Entries 89
Mean 0.004324
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

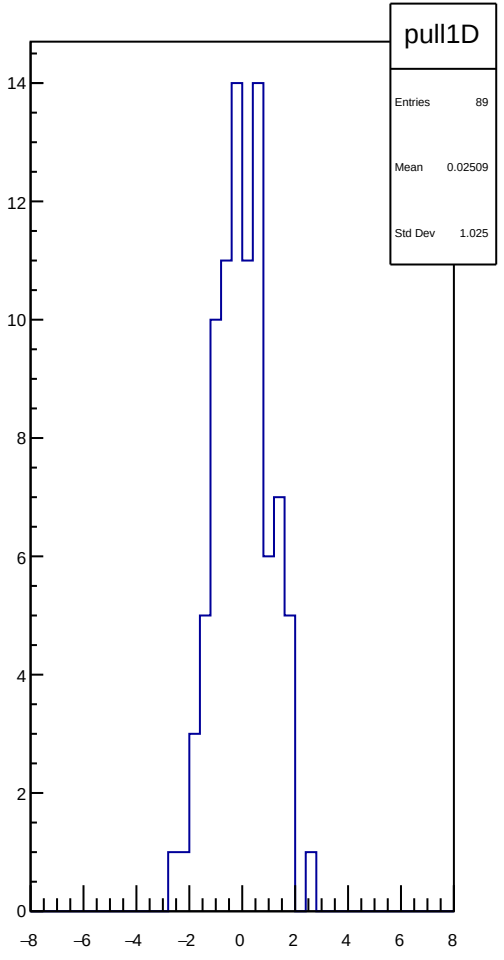

asym_usr_atr2_dd_rms vs run
χ² / ndf 3580 / 88
p0 5681 ± 4.25
6400
6200
6000
5800
5600
5400
5200
5000
4800

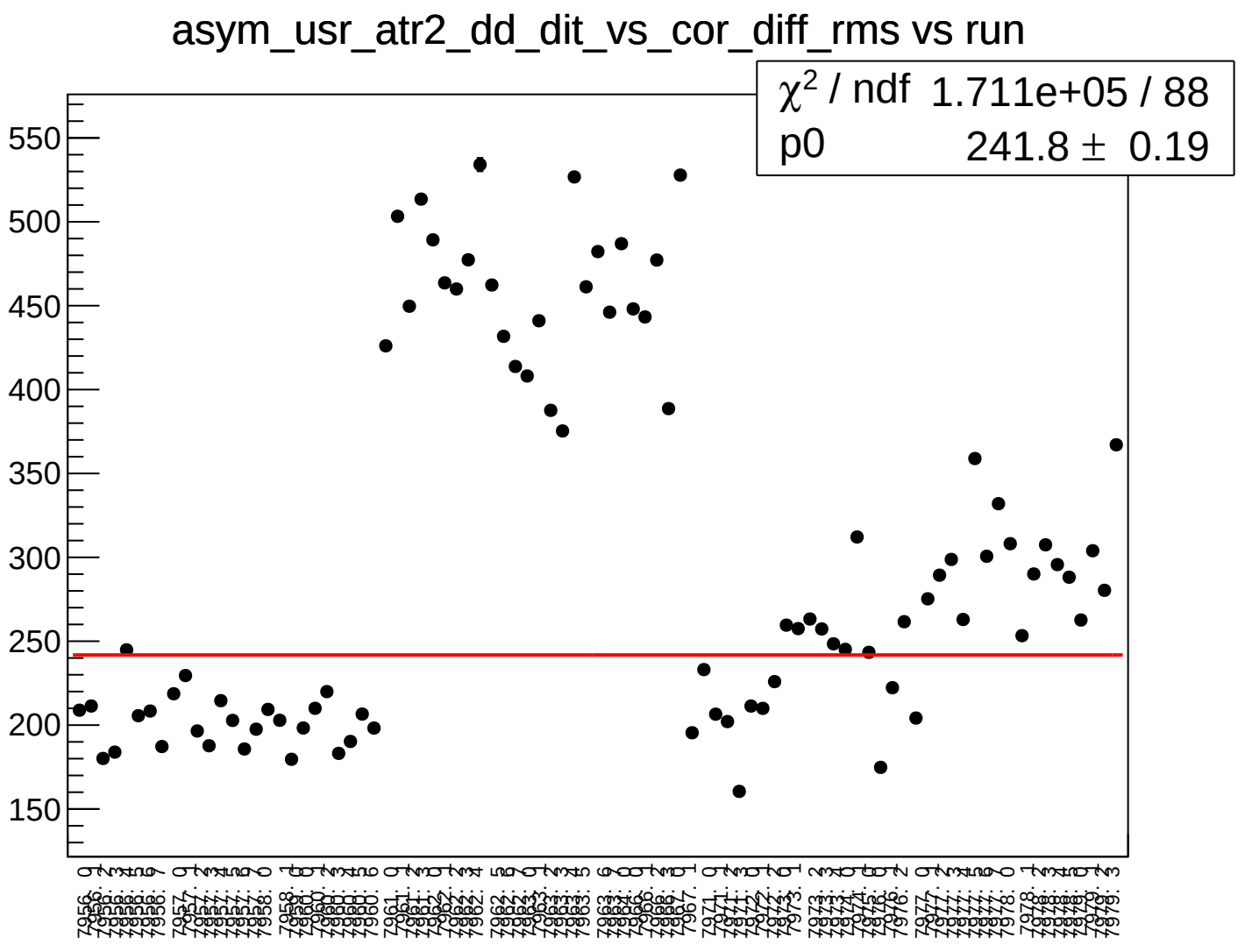

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.02 / 88
p0 1.021e−12 ± 9.957e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean −920.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

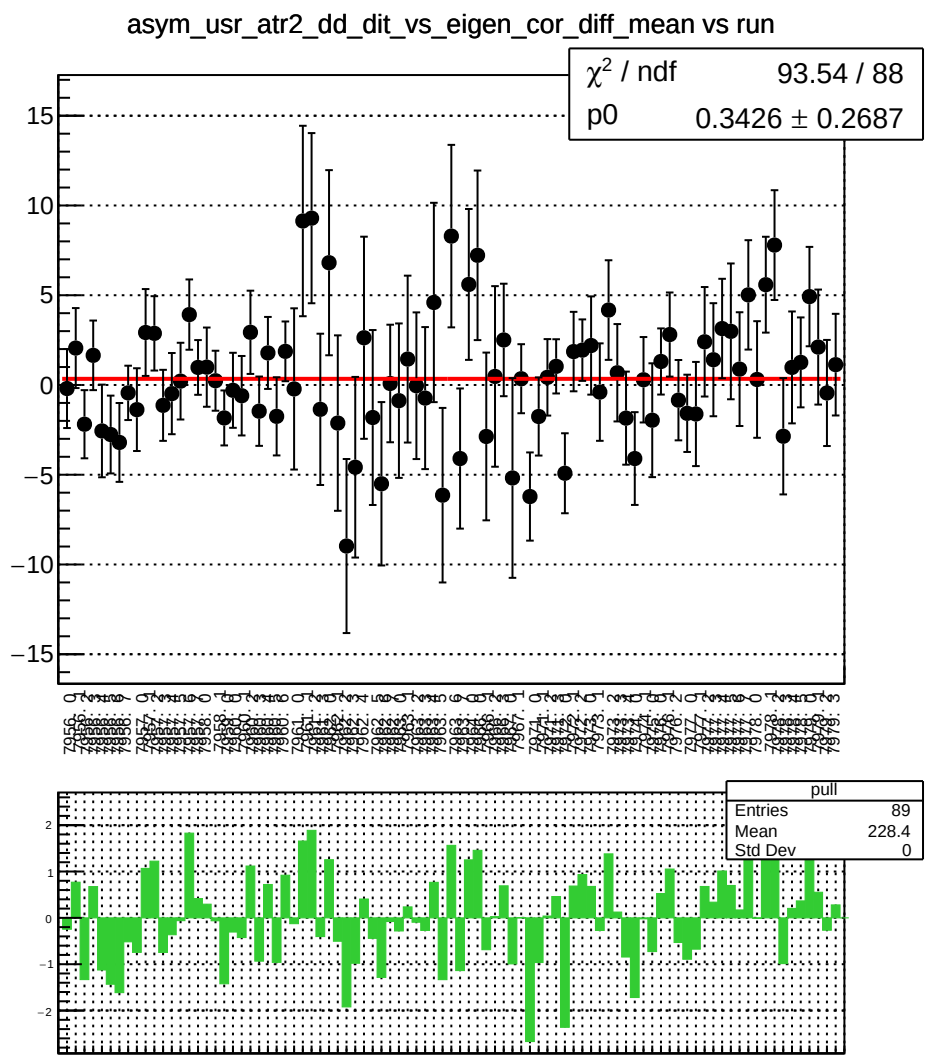

pull1D
Entries 89
Mean 0.005045
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

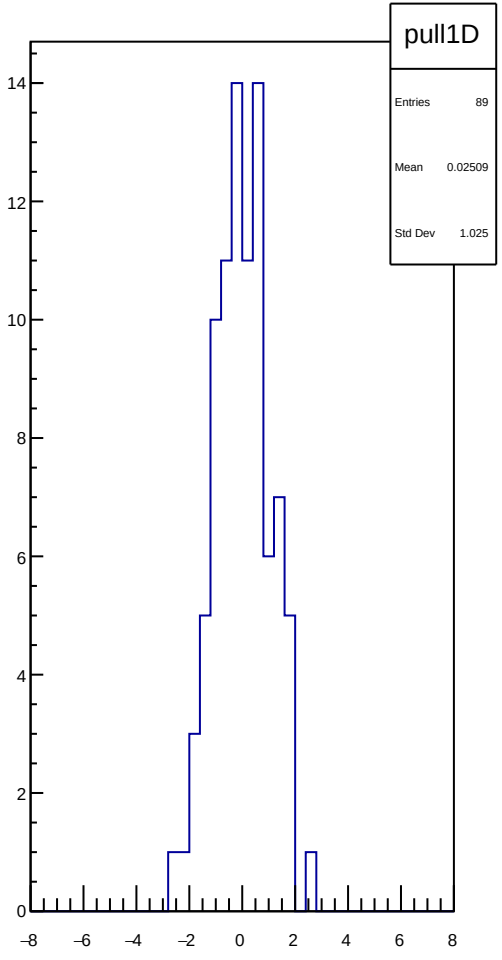

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.363e+05 / 88
p0 6.508e−10 ± 7.041e−13
0.5
0.4
0.3
0.2
0.1
0

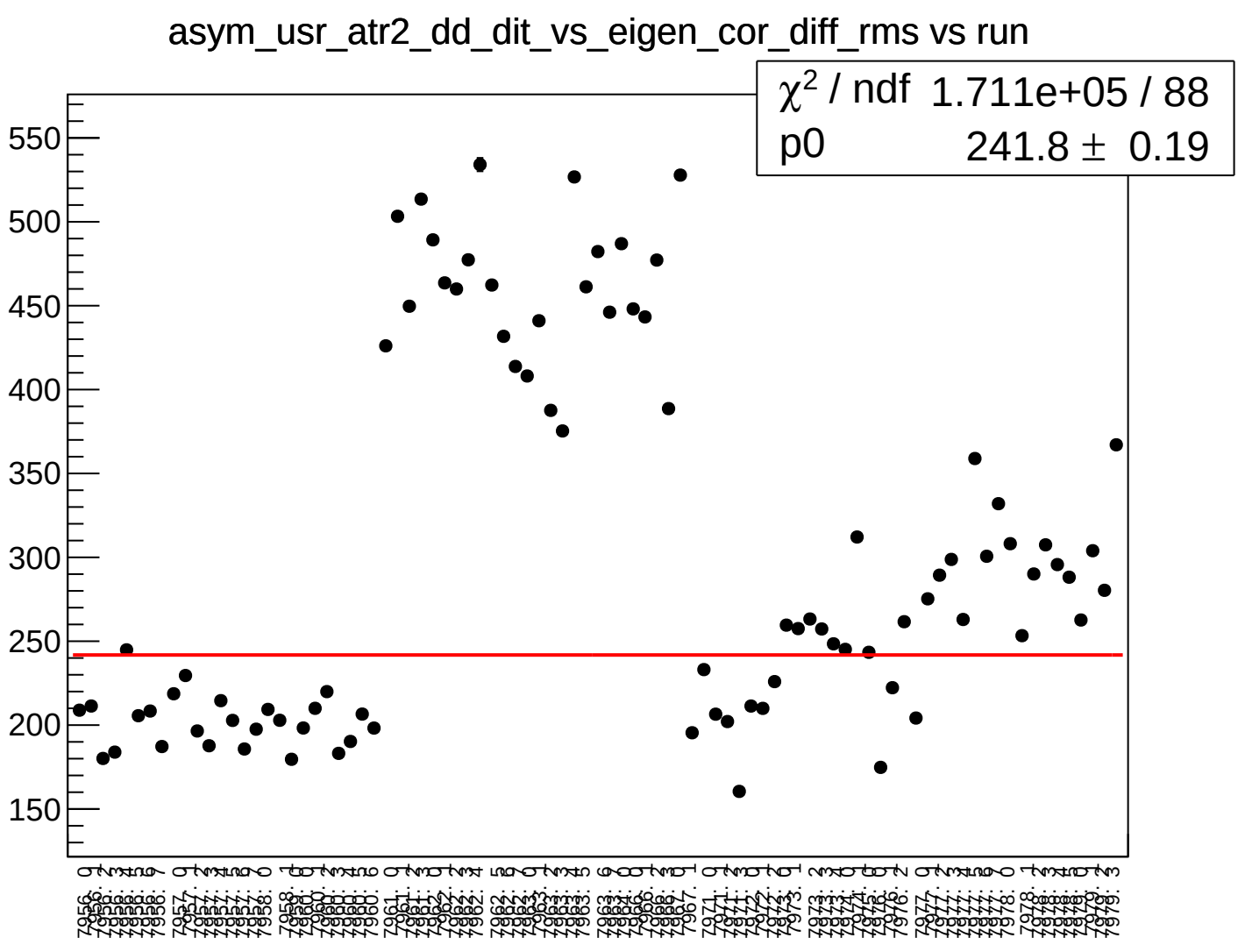

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.54 / 88
p0 0.3426 ± 0.2687
pull
Entries 89
Mean 228.4
Std Dev 0

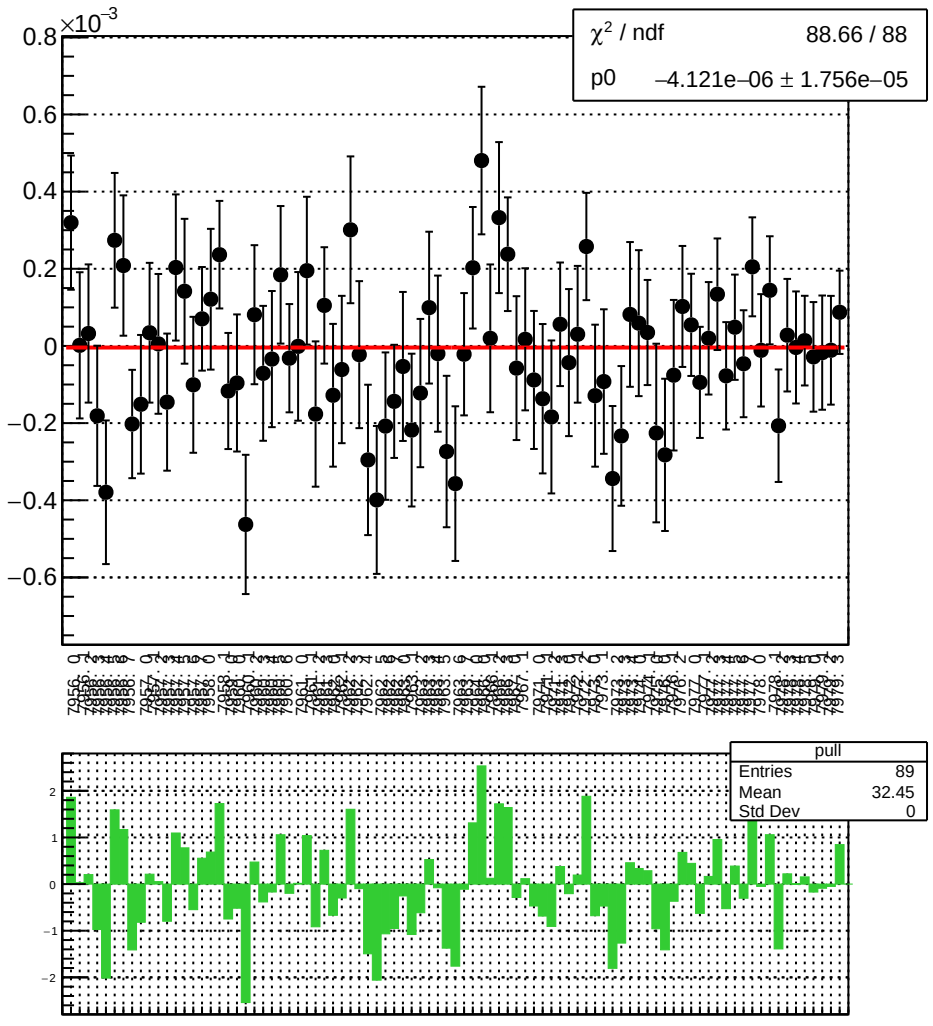

pull1D
Entries 89
Mean 0.02509
Std Dev 1.025

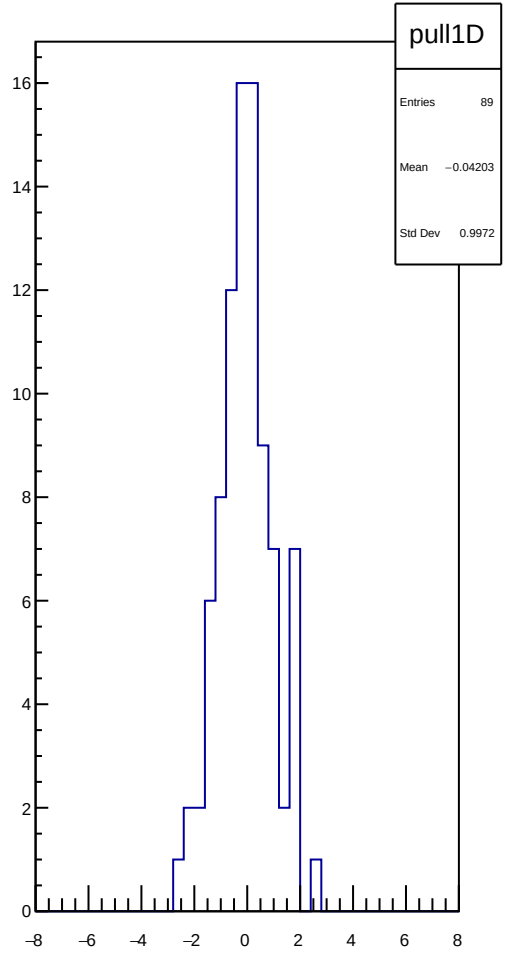

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.711e+05 / 88
p0 241.8 ± 0.19
550
500
450
400
350
300
250
200
150

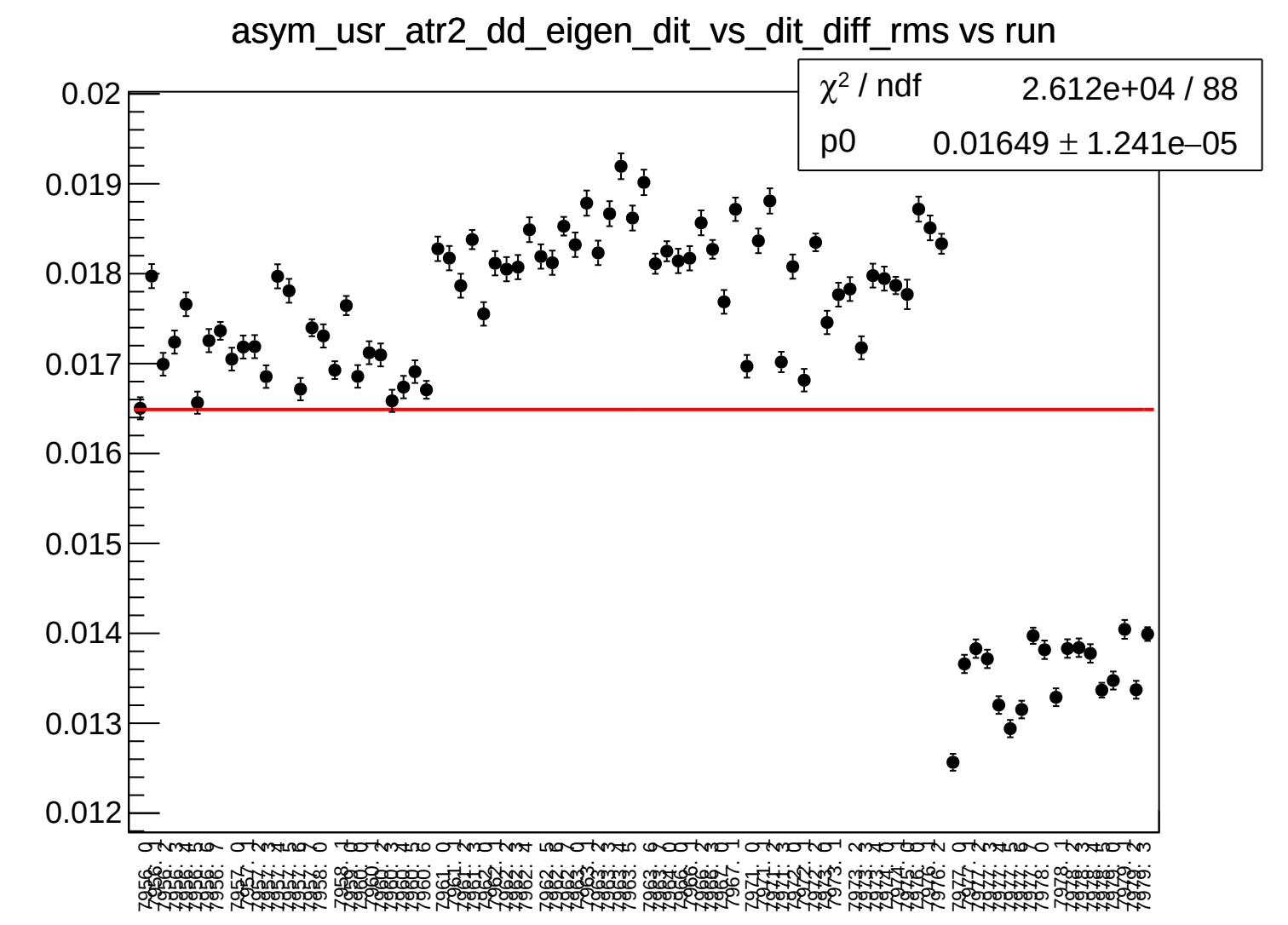

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.54 / 88
p0 0.3426 ± 0.2687
pull
Entries 89
Mean 228.4
Std Dev 0

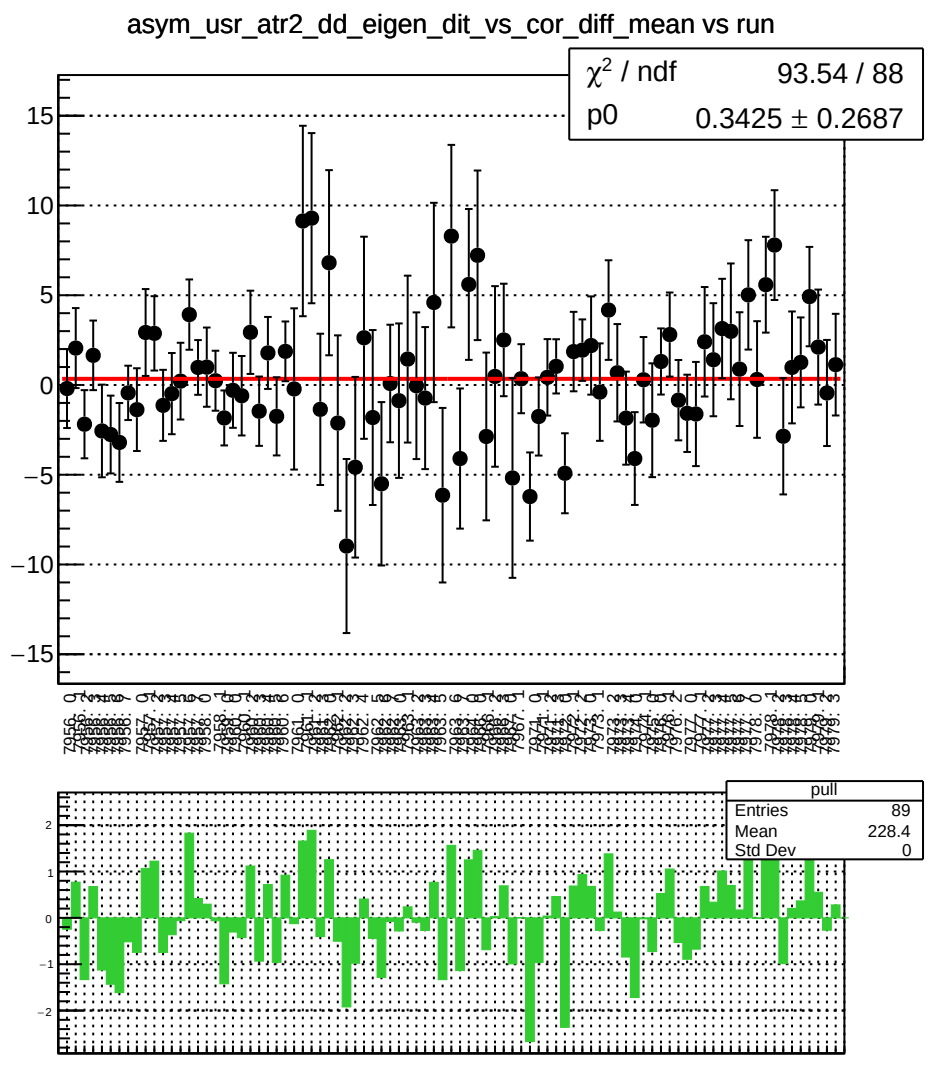

pull1D
Entries 89
Mean 0.02509
Std Dev 1.025

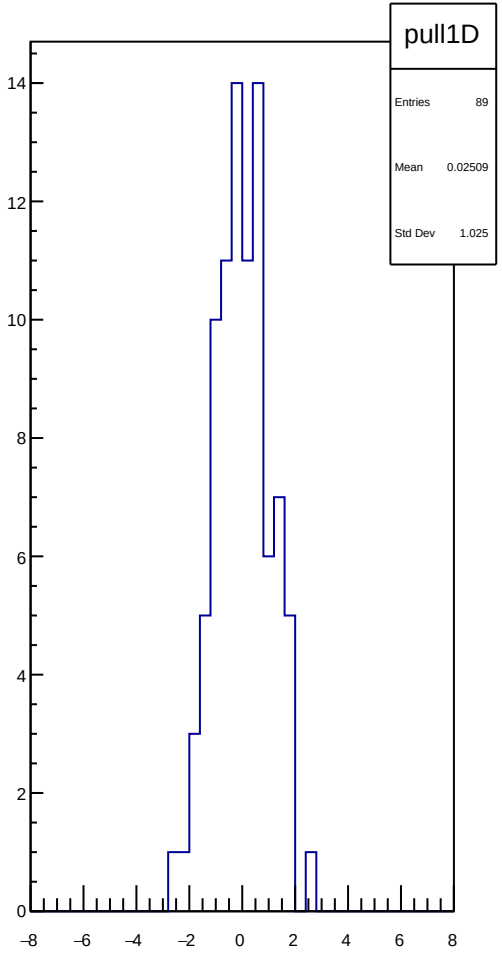

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.711e+05 / 88
p0 241.8 ± 0.19
550
500
450
400
350
300
250
200
150

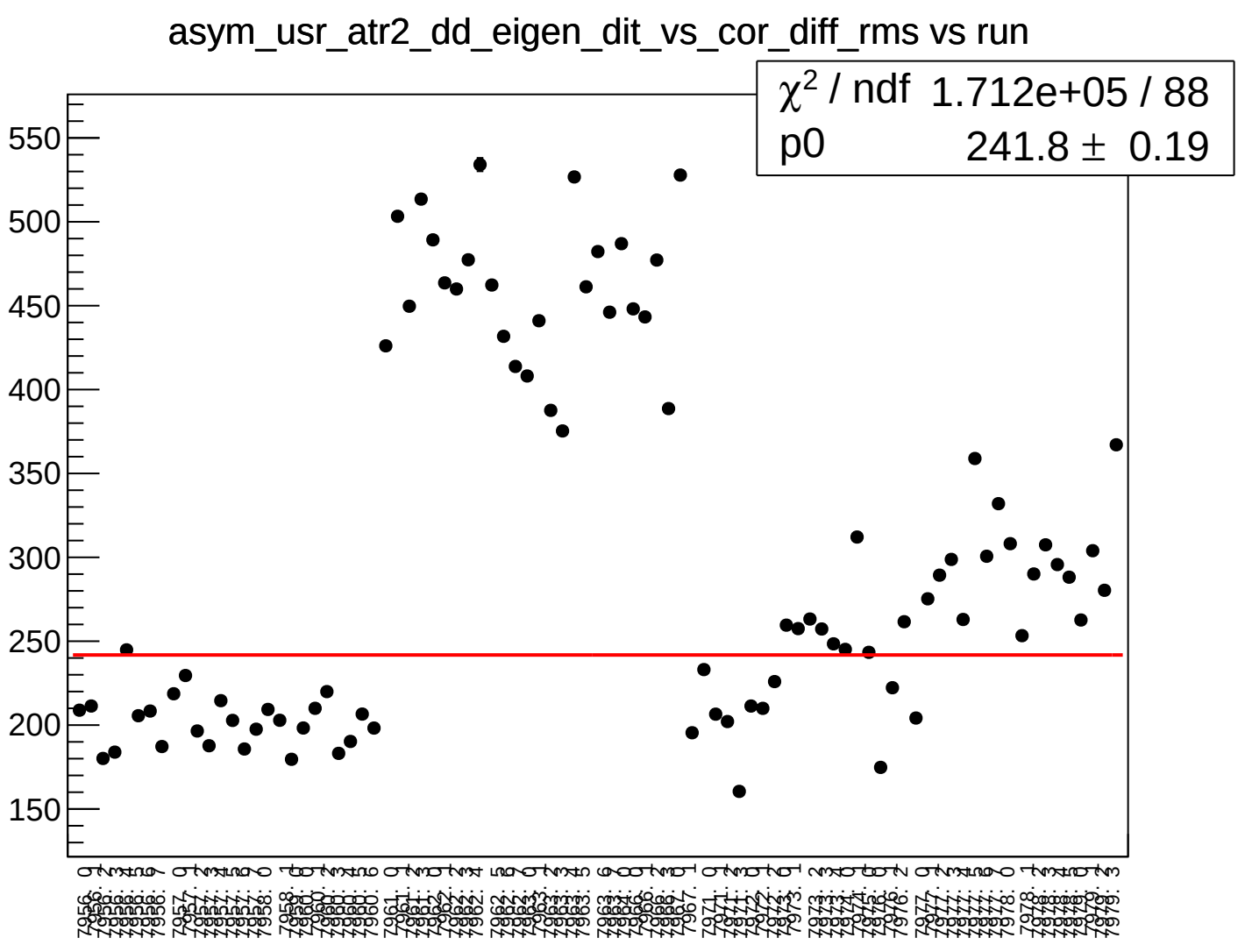

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.66 / 88
p0 −4.121e−06 ± 1.756e−05
pull
Entries 89
Mean 32.45
Std Dev 0

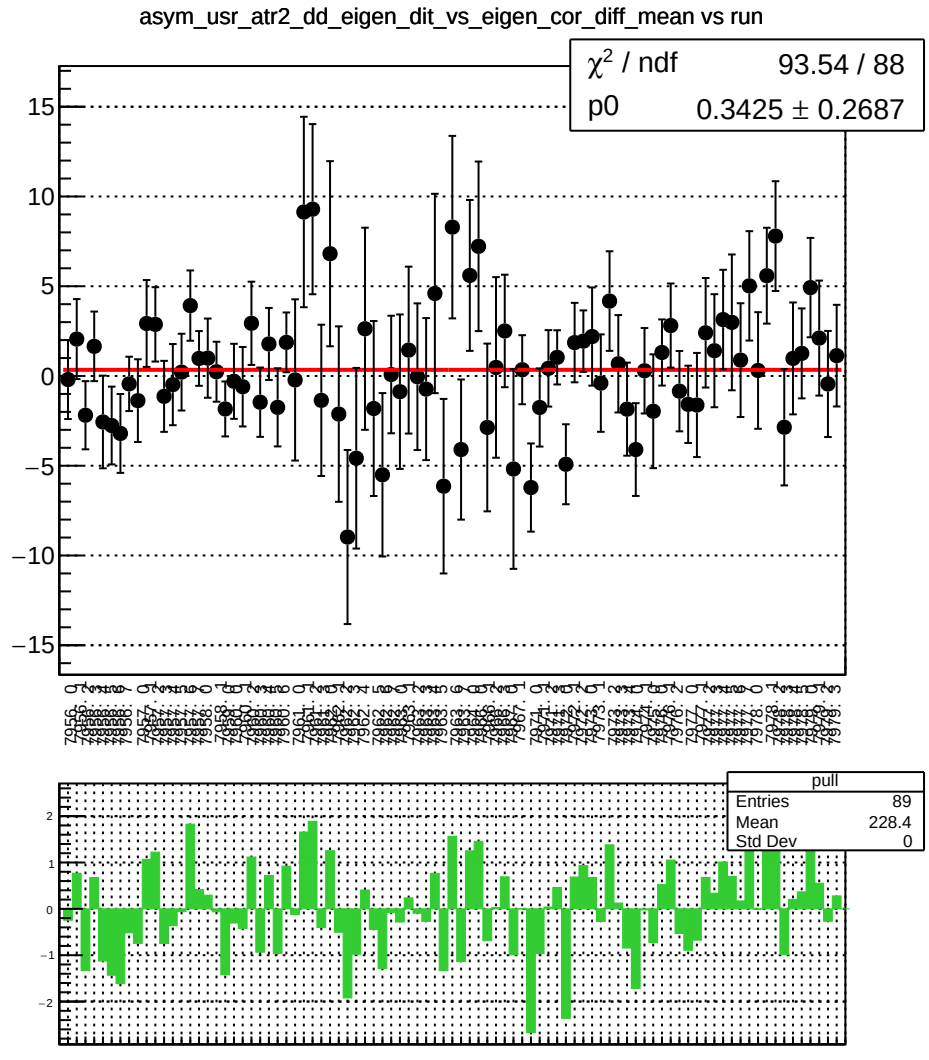

pull1D
Entries 89
Mean −0.04203
Std Dev 0.9972

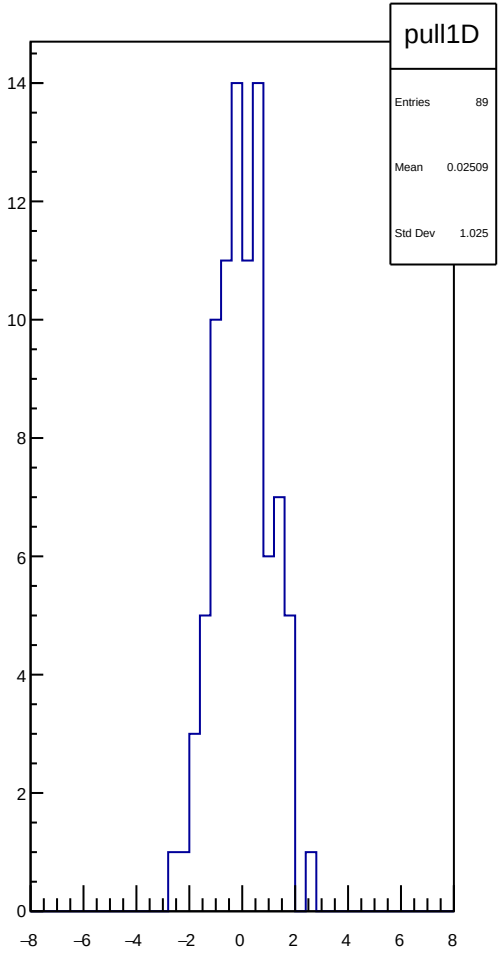

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.612e+04 / 88
p0 0.01649 ± 1.241e−05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012

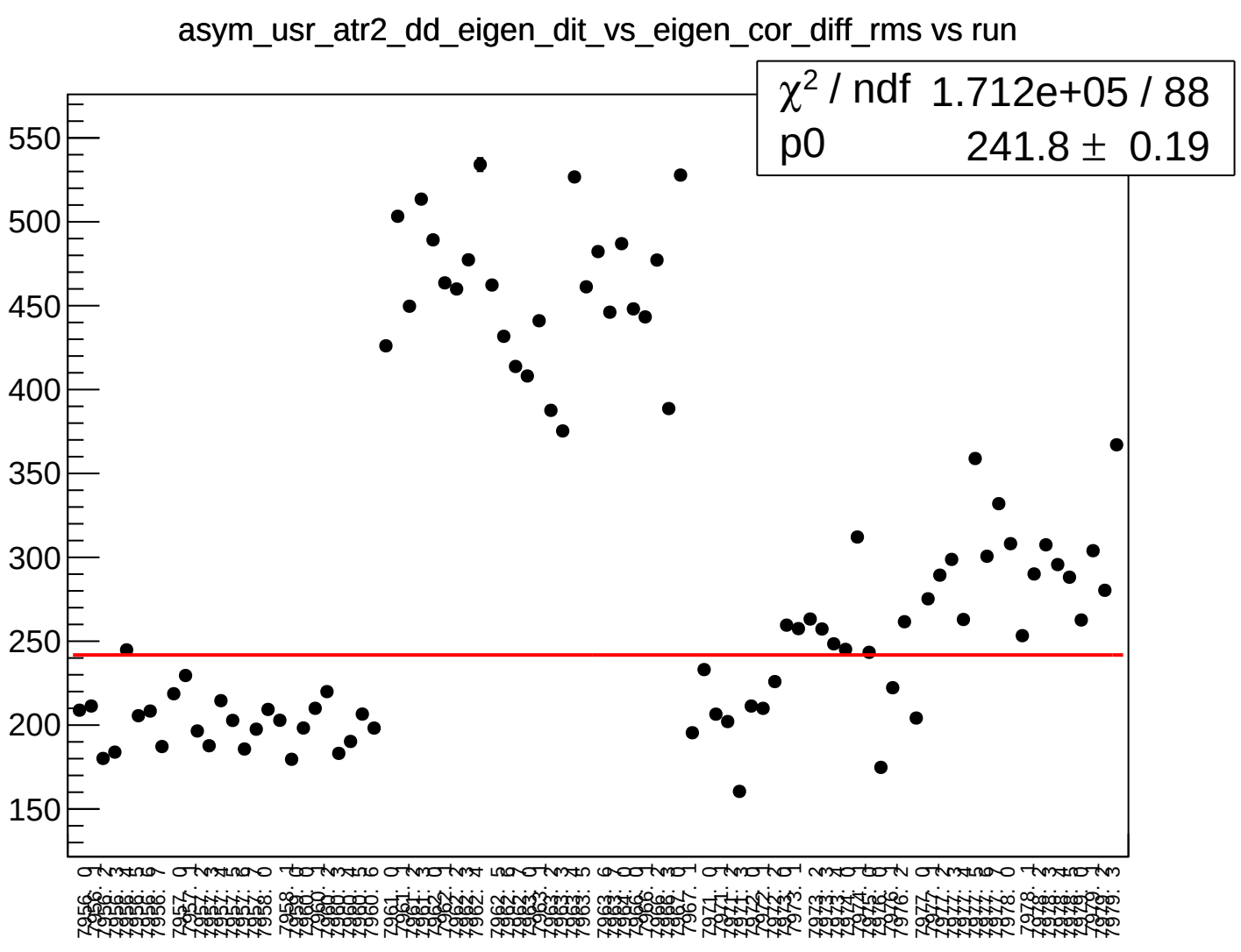

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.54 / 88
p0 0.3425 ± 0.2687
pull
Entries 89
Mean 228.4
Std Dev 0

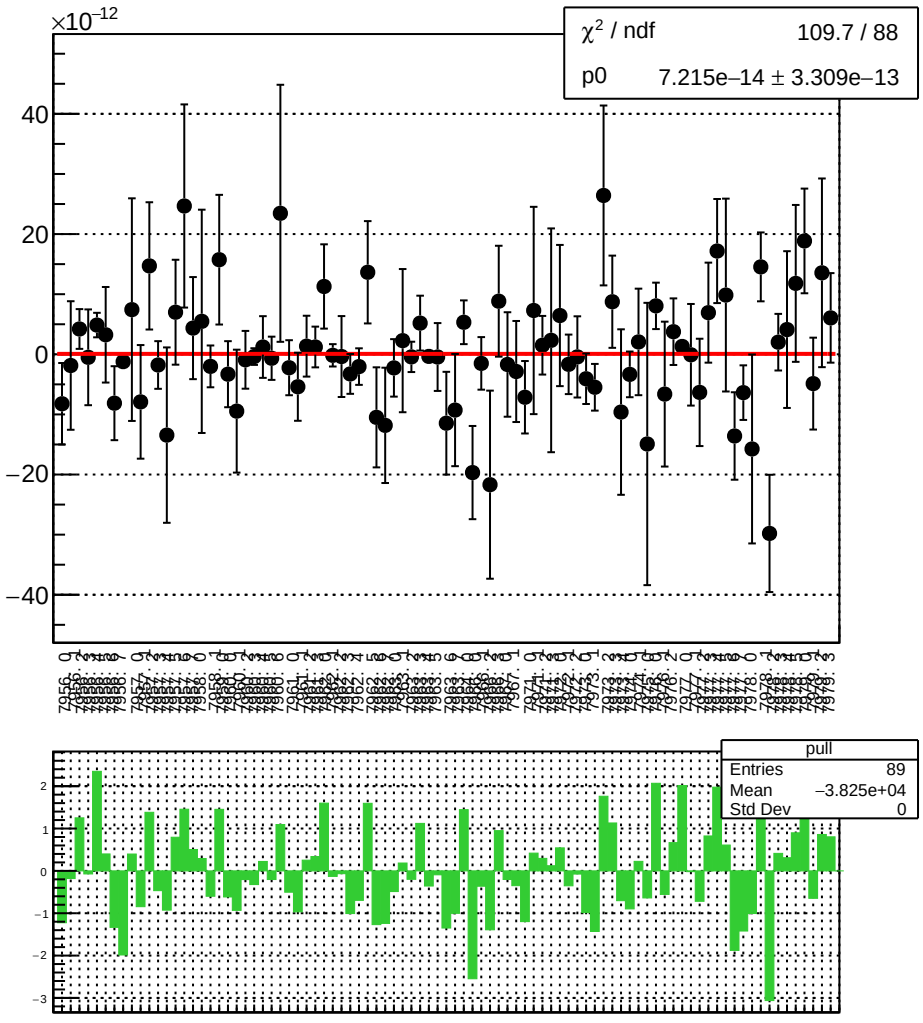

pull1D
Entries 89
Mean 0.02509
Std Dev 1.025

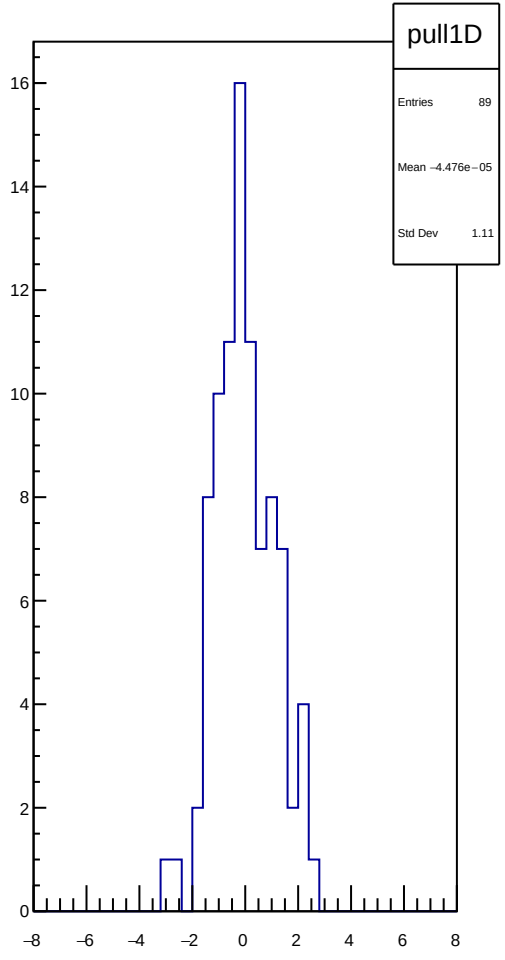

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.712e+05 / 88
p0 241.8 ± 0.19
550
500
450
400
350
300
250
200
150

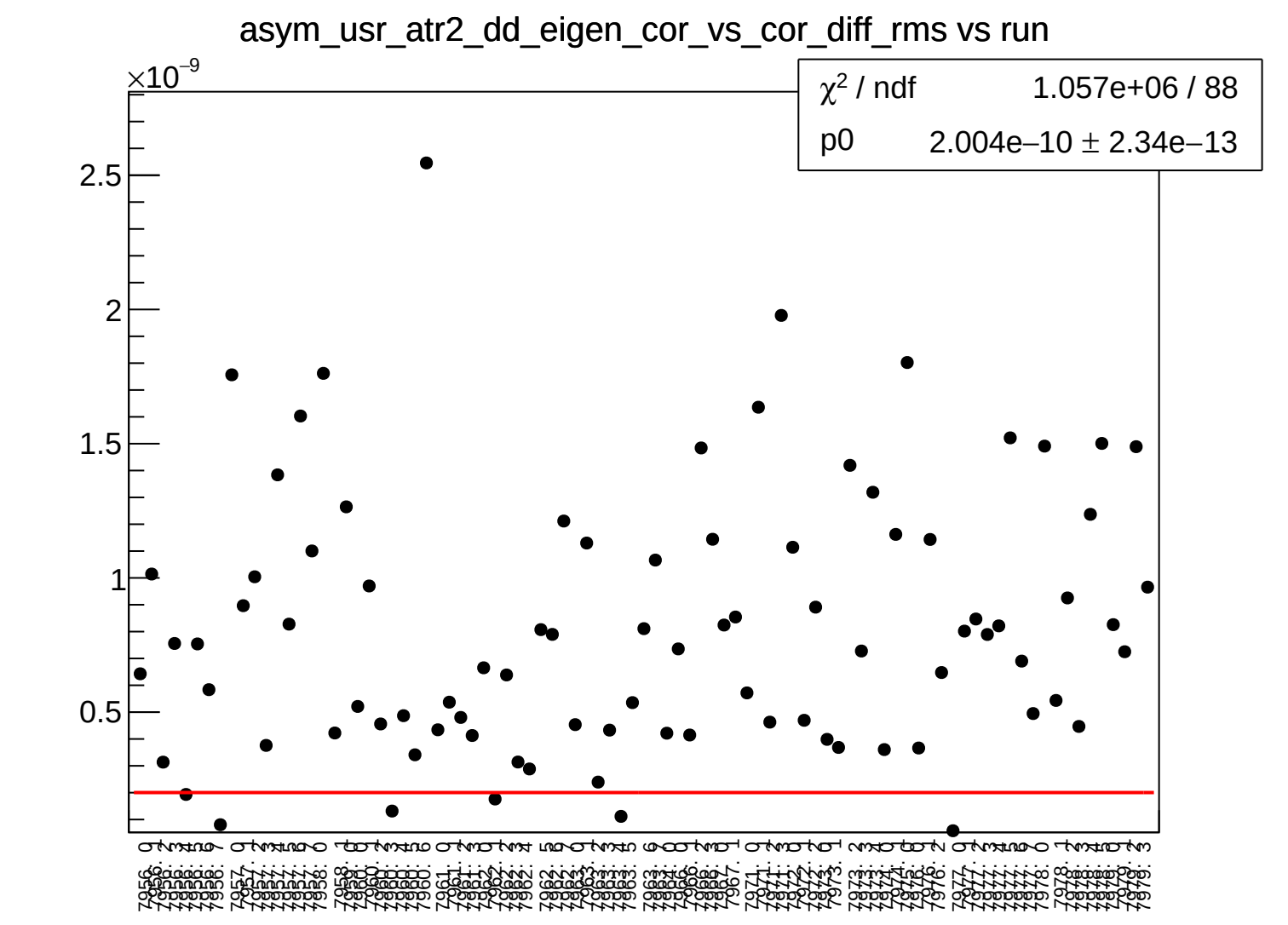

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.54 / 88
p0 0.3425 ± 0.2687
pull
Entries 89
Mean 228.4
Std Dev 0

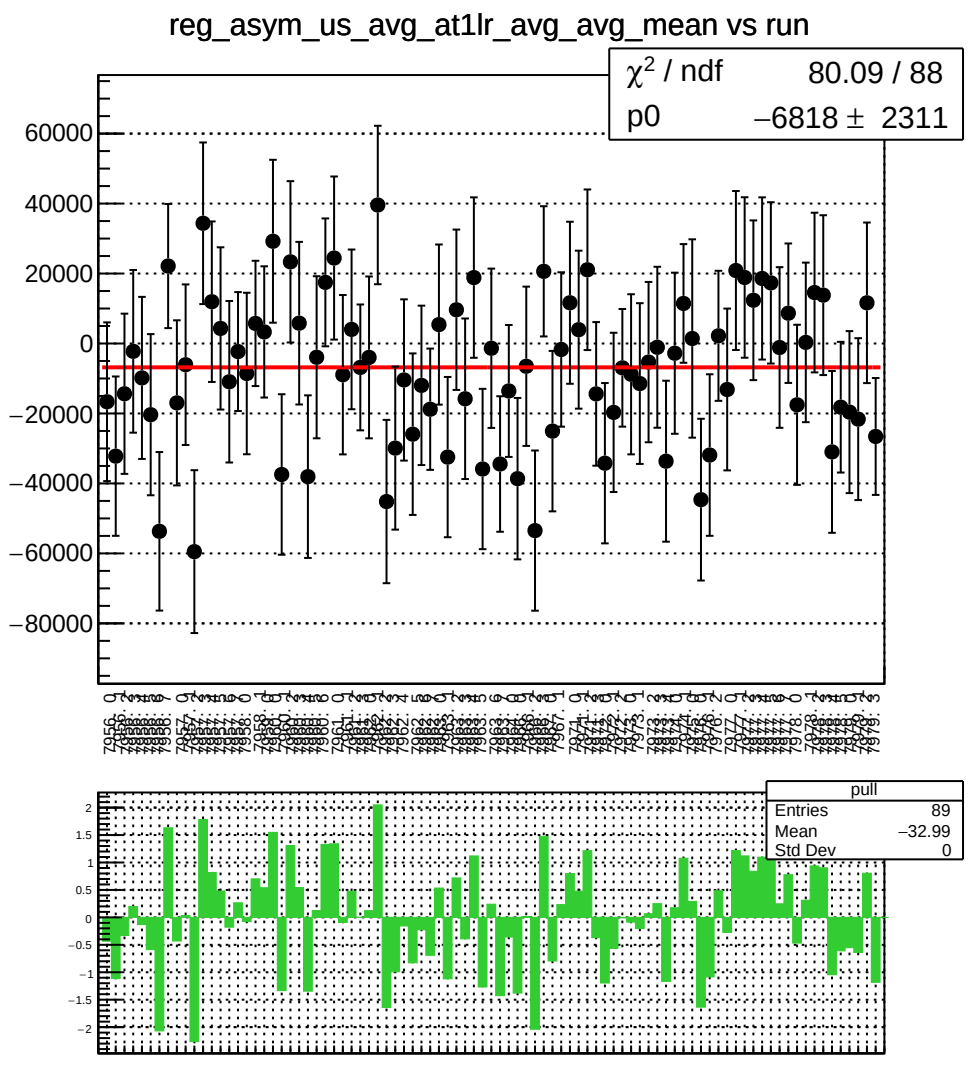

pull1D
Entries 89
Mean 0.02509
Std Dev 1.025

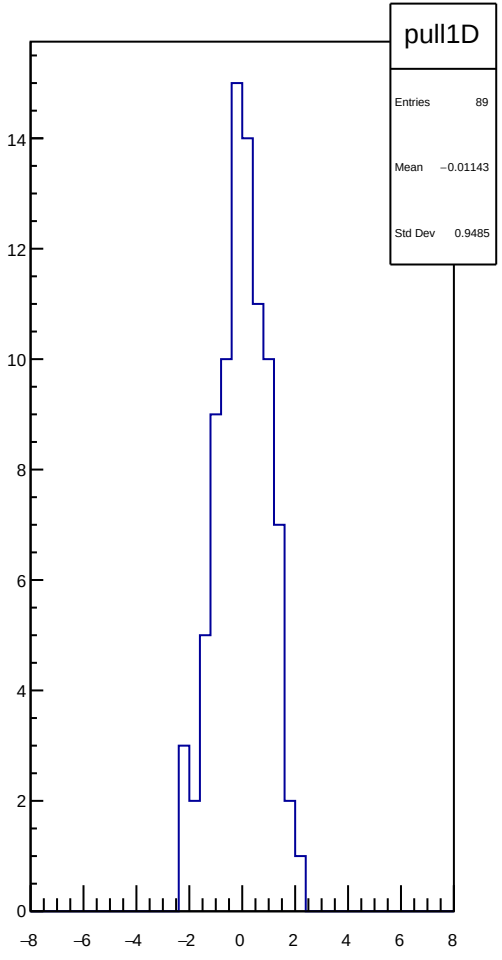

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.712e+05 / 88
p0 241.8 ± 0.19
550
500
450
400
350
300
250
200
150

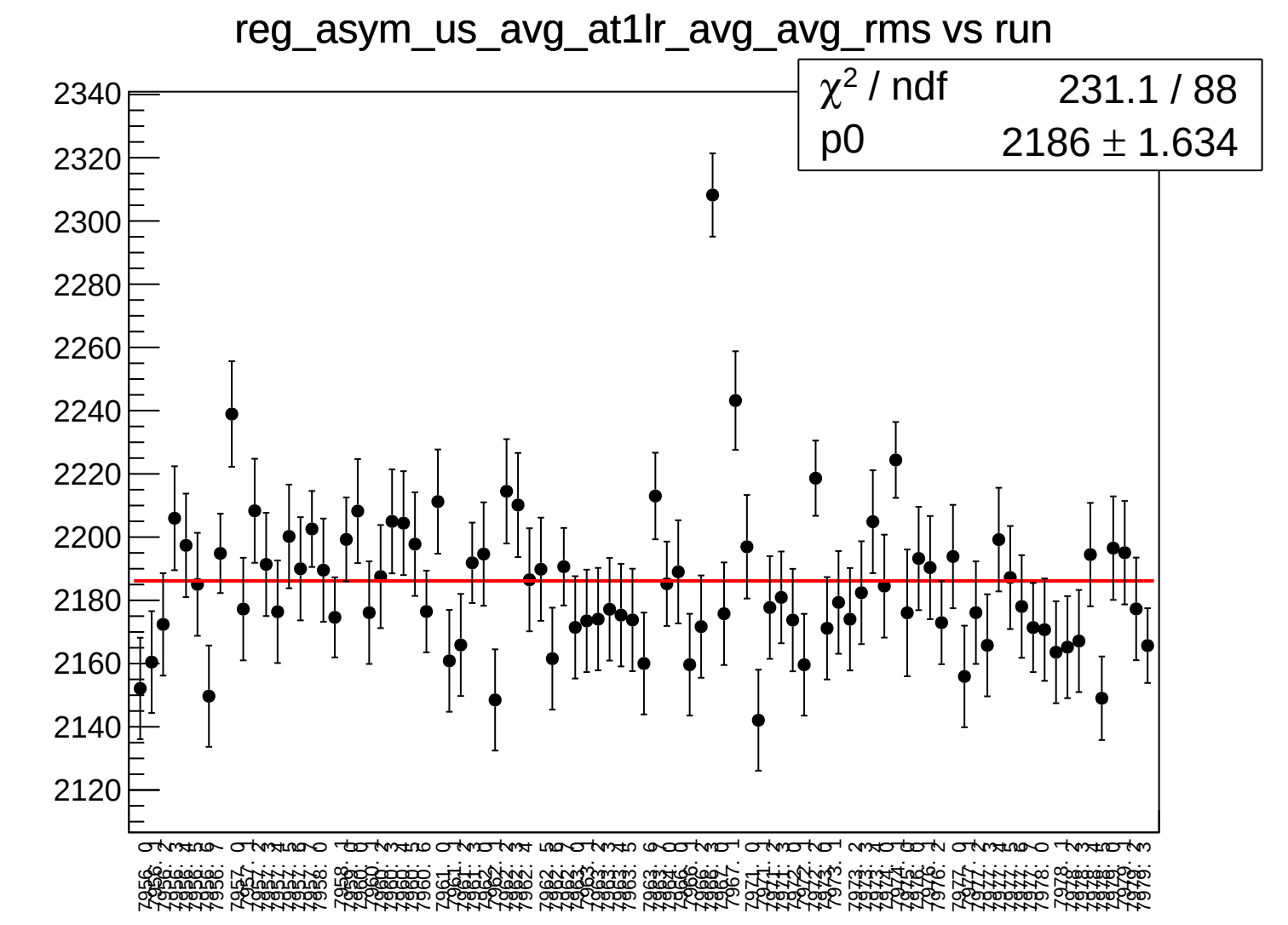

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.7 / 88
p0 7.215e−14 ± 3.309e−13
40
20
0
−20
−40
pull
Entries 89
Mean −3.825e+04
Std Dev 0
2
1
0
−1
−2
−3

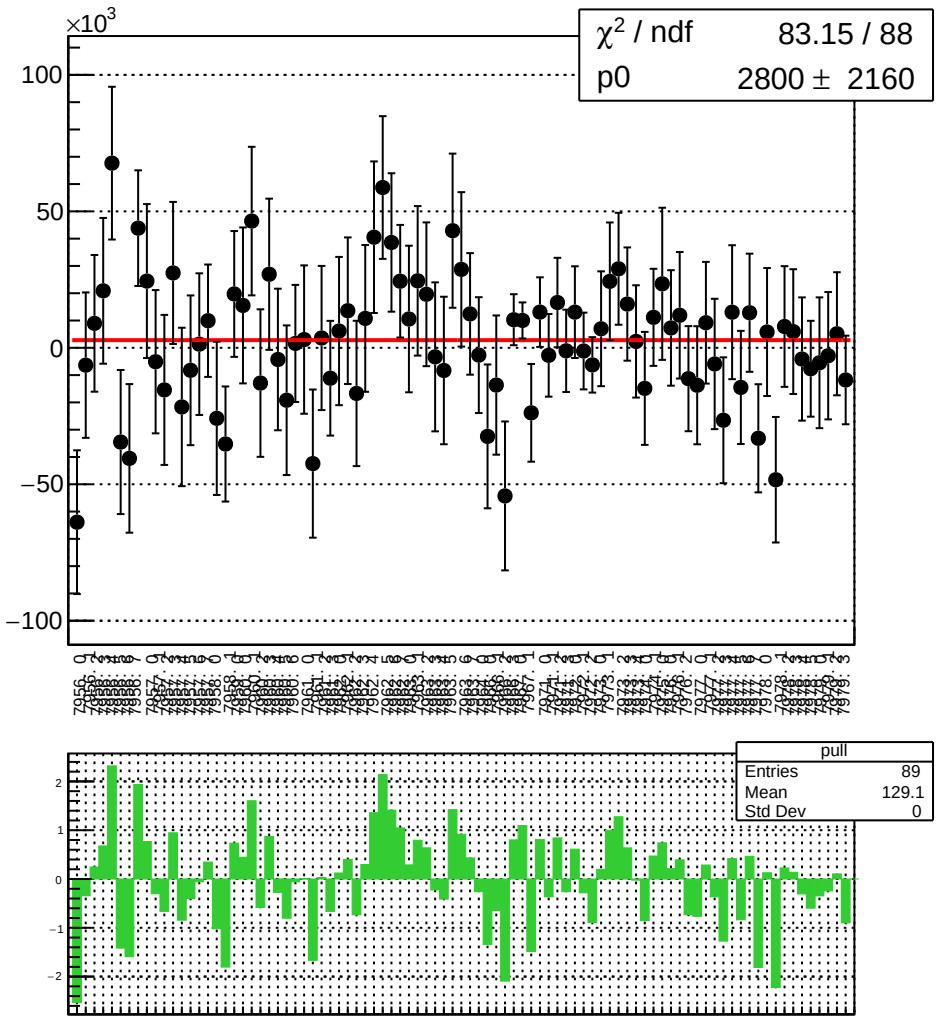

pull1D
Entries 89
Mean −4.476e−05
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

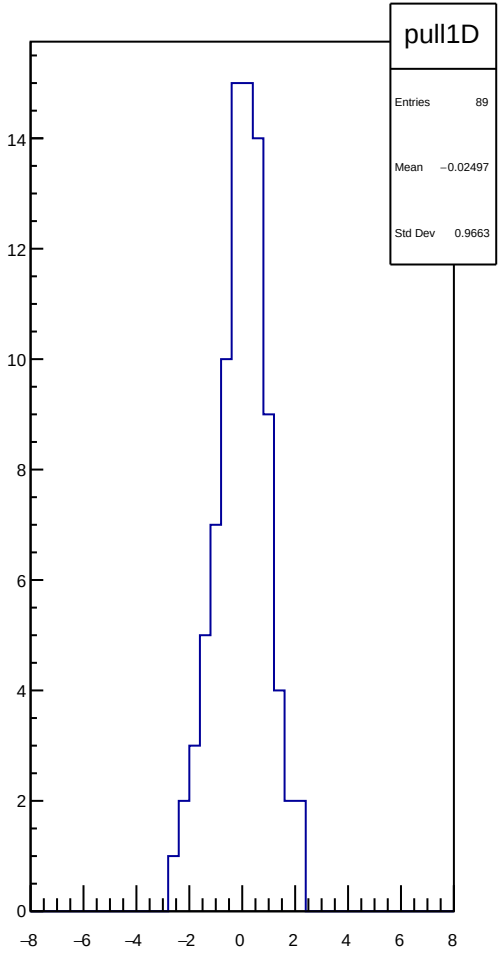

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.057e+06 / 88
p0 2.004e−10 ± 2.34e−13
2.5
2
1.5
1
0.5

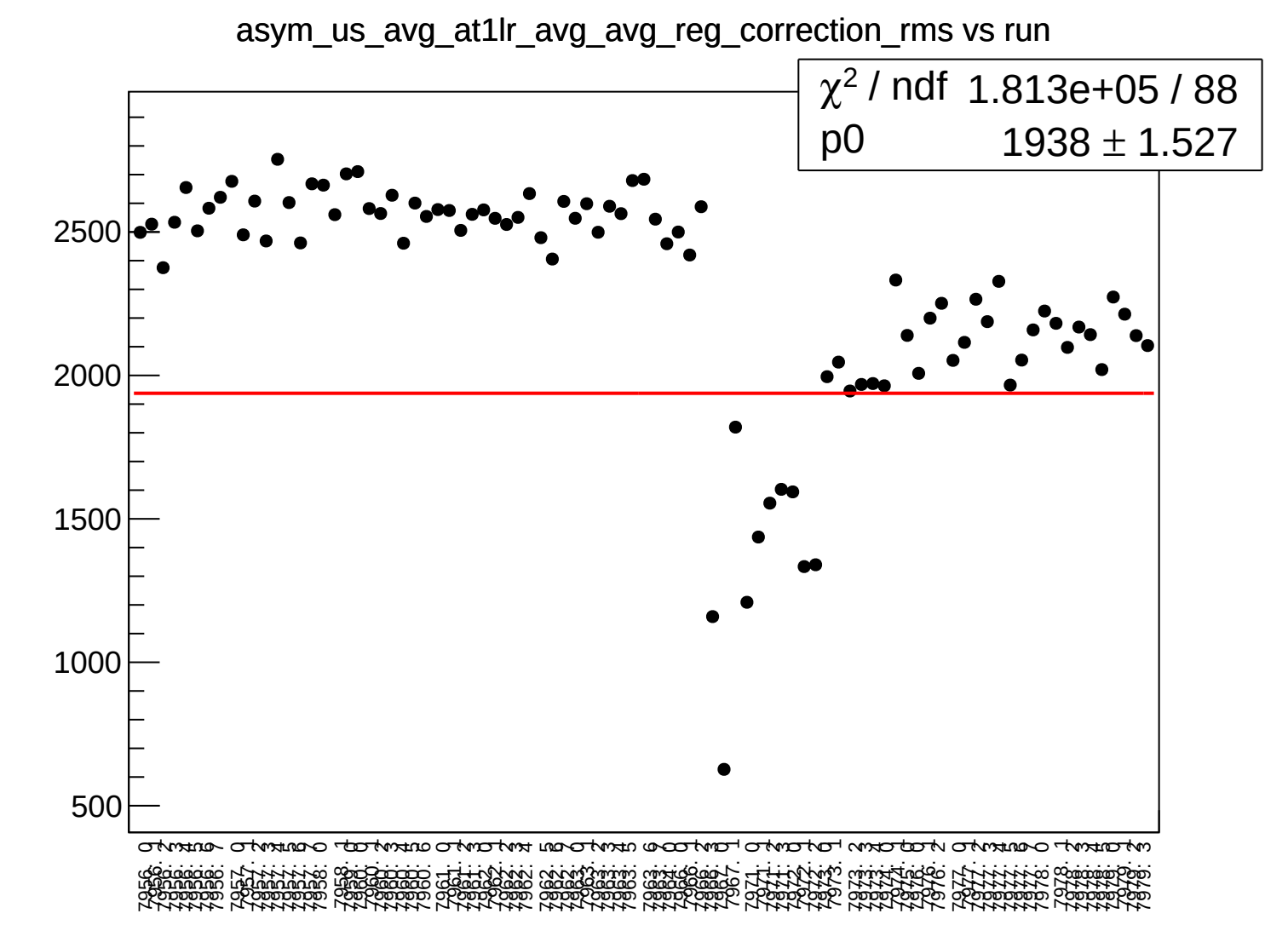

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 80.09 / 88
p0 −6818 ± 2311
pull
Entries 89
Mean −32.99
Std Dev 0

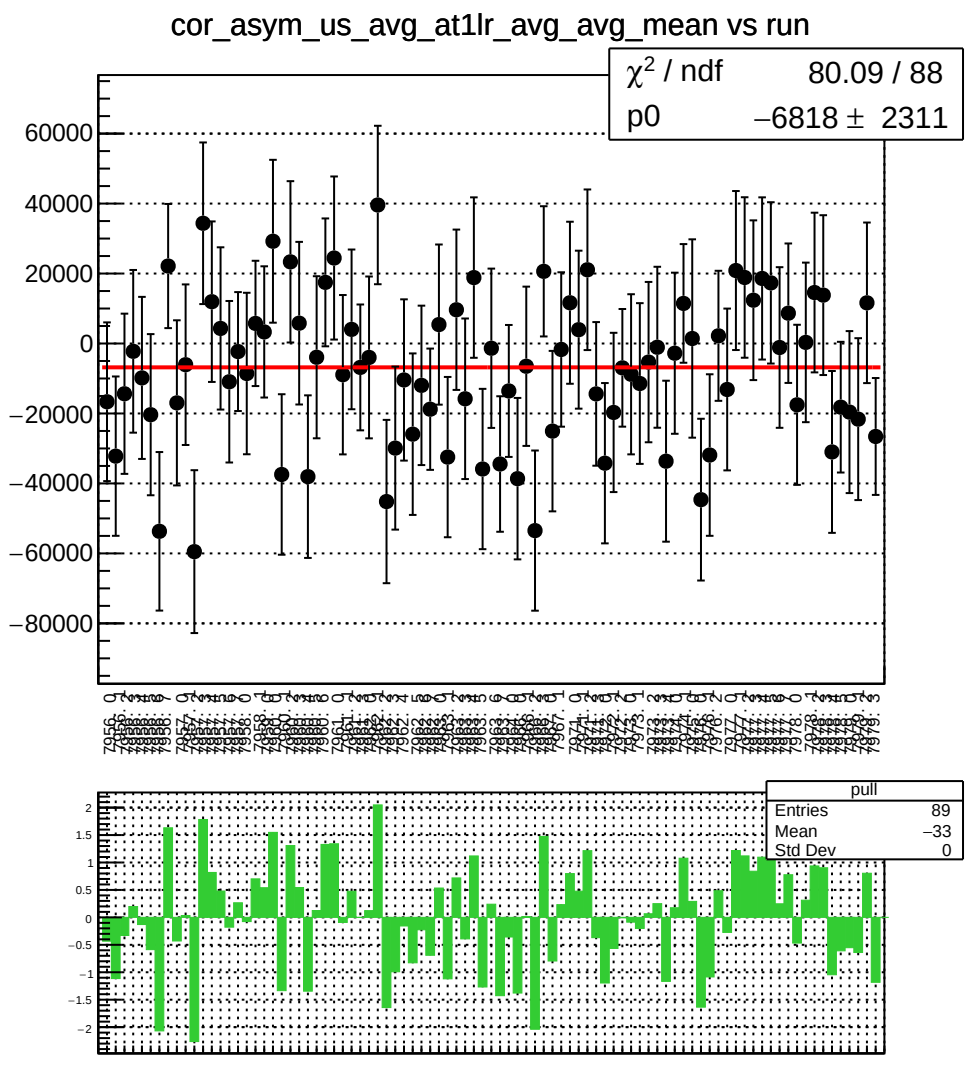

pull1D
Entries 89
Mean −0.01143
Std Dev 0.9485

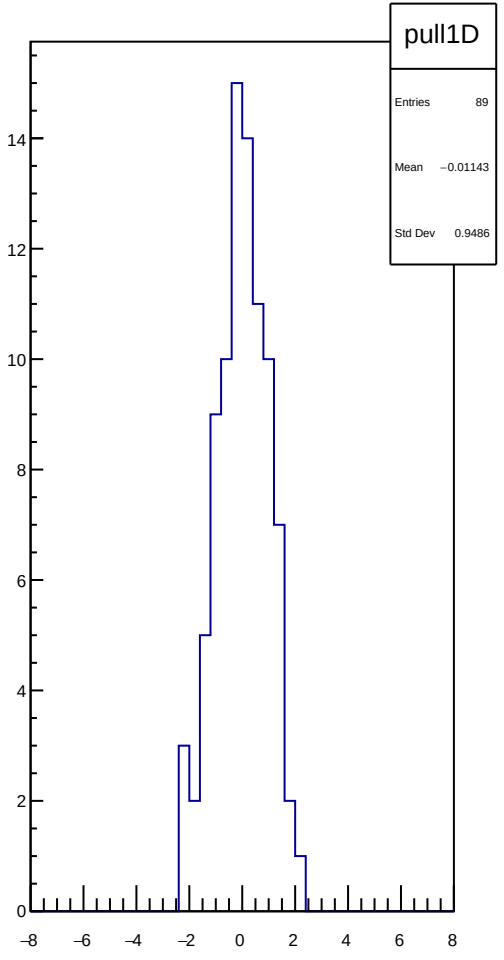

reg_asym_us_avg_at1lr_avg_avg_rms vs run
$\chi^2$ / ndf 231.1 / 88
p0 2186 ± 1.634
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

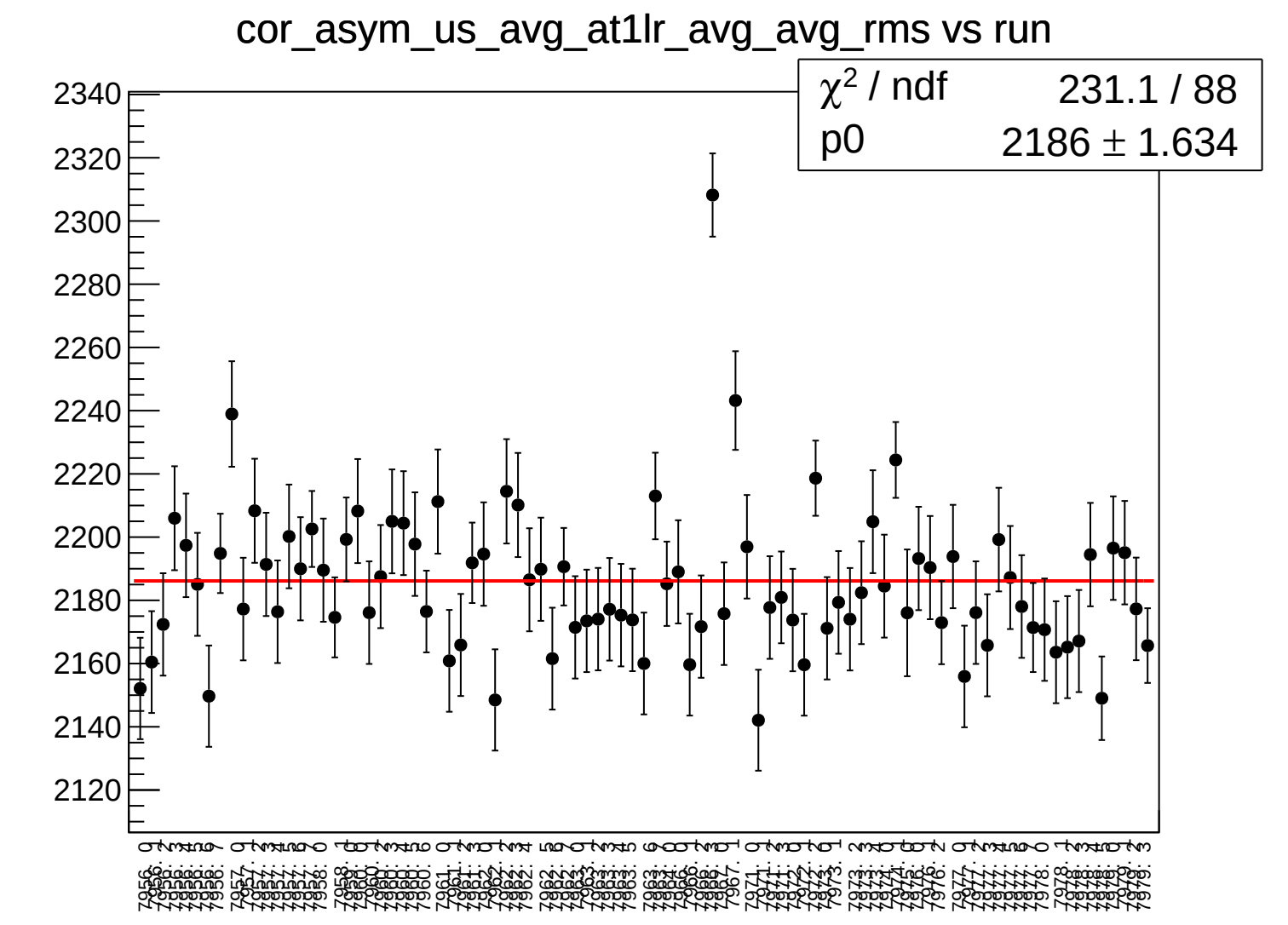

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 83.15 / 88
p0 2800 ± 2160
100
50
0
−50
−100
pull
Entries 89
Mean 129.1
Std Dev 0
2
1
0
−1
−2

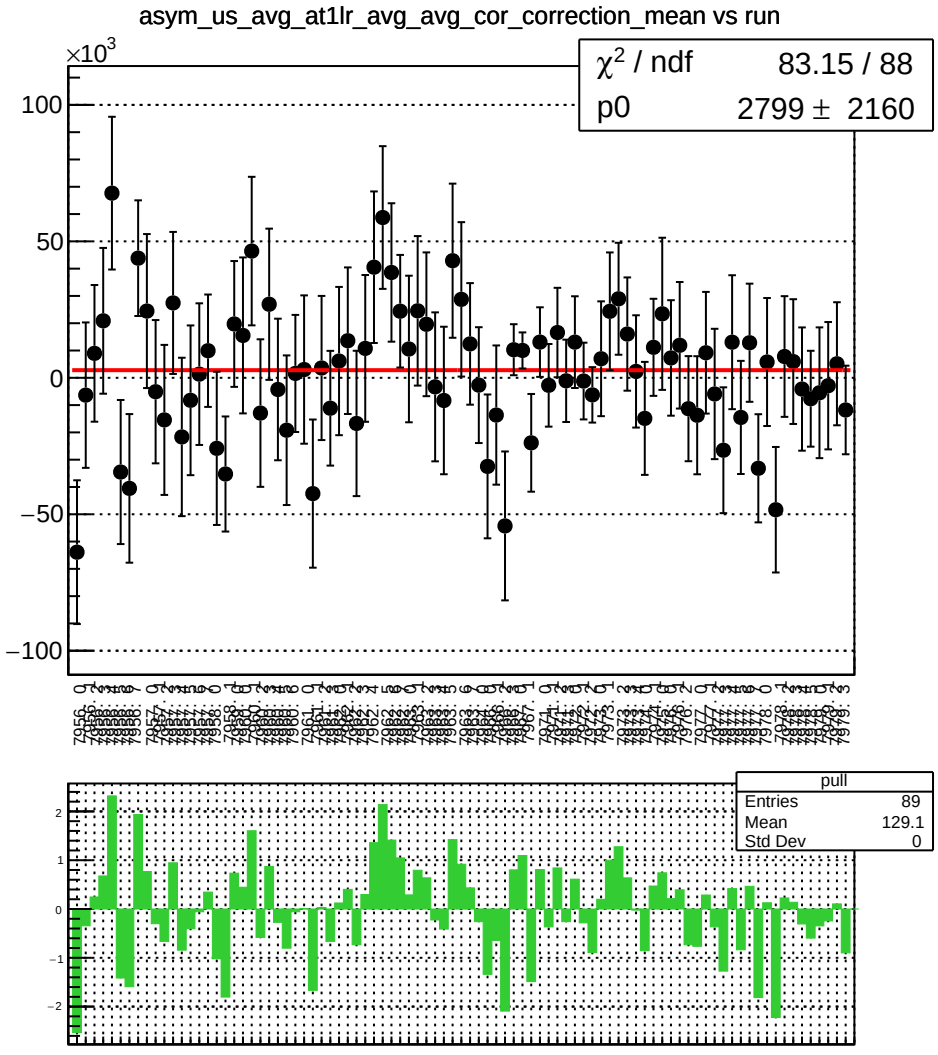

pull1D
Entries 89
Mean −0.02497
Std Dev 0.9663
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

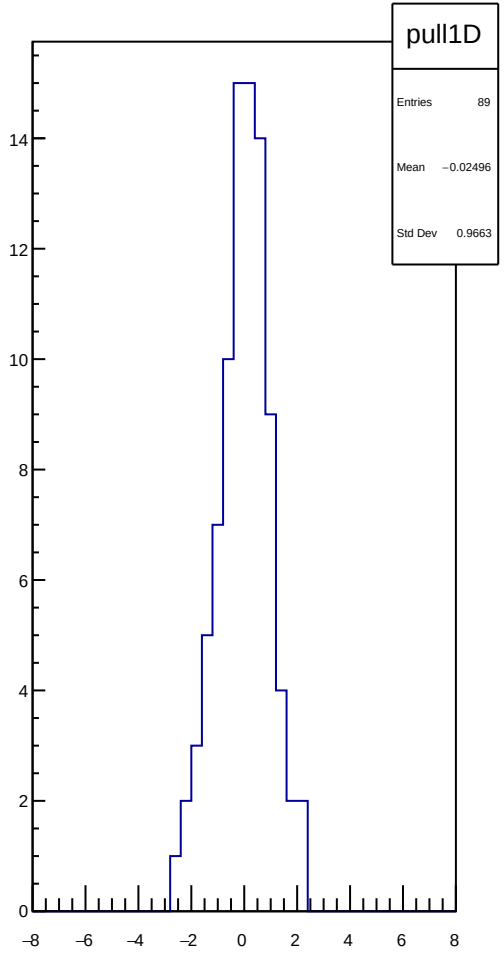

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.813e+05 / 88
p0 1938 ± 1.527
2500
2000
1500
1000
500

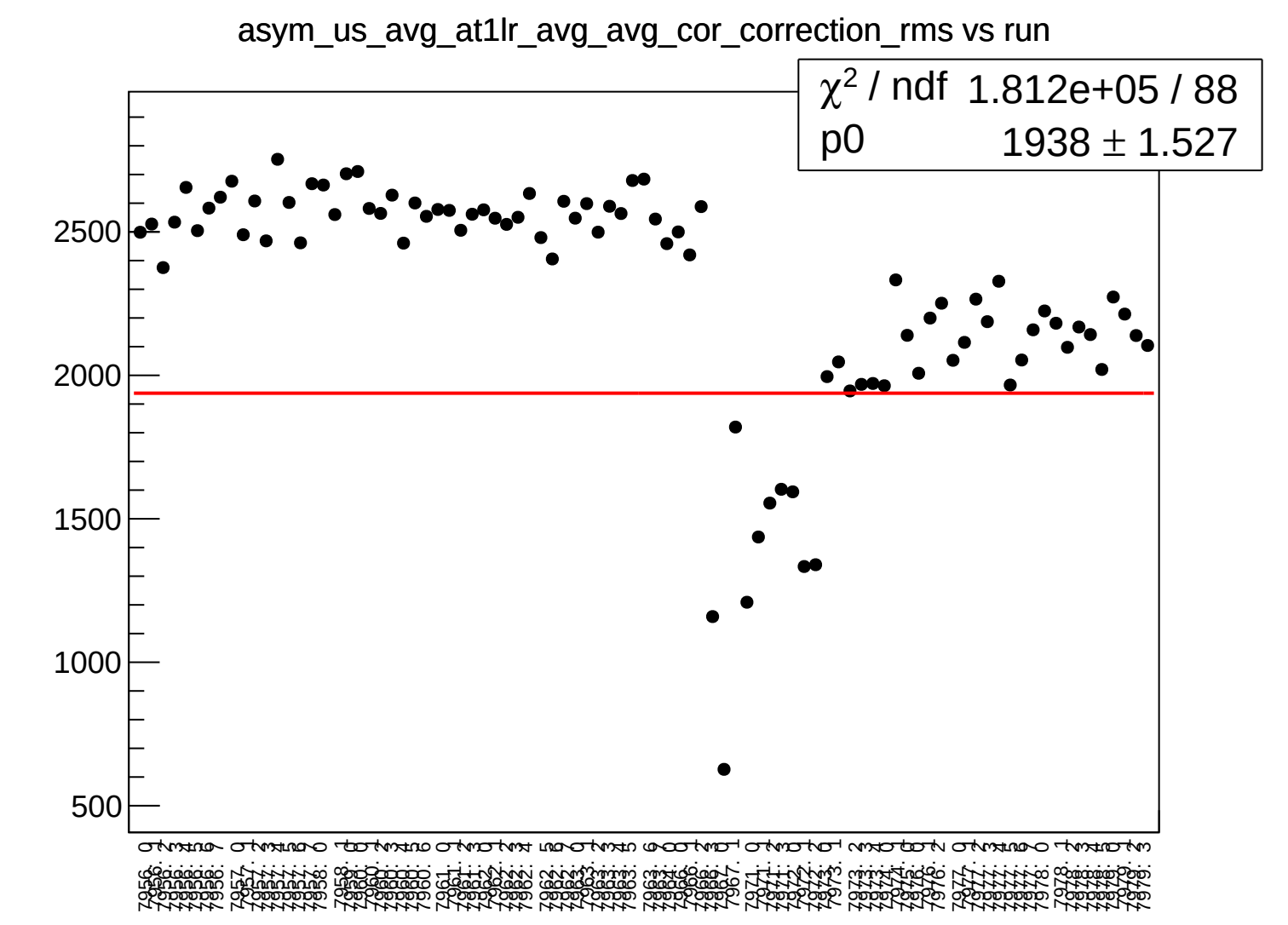

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 80.09 / 88
p0 −6818 ± 2311
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

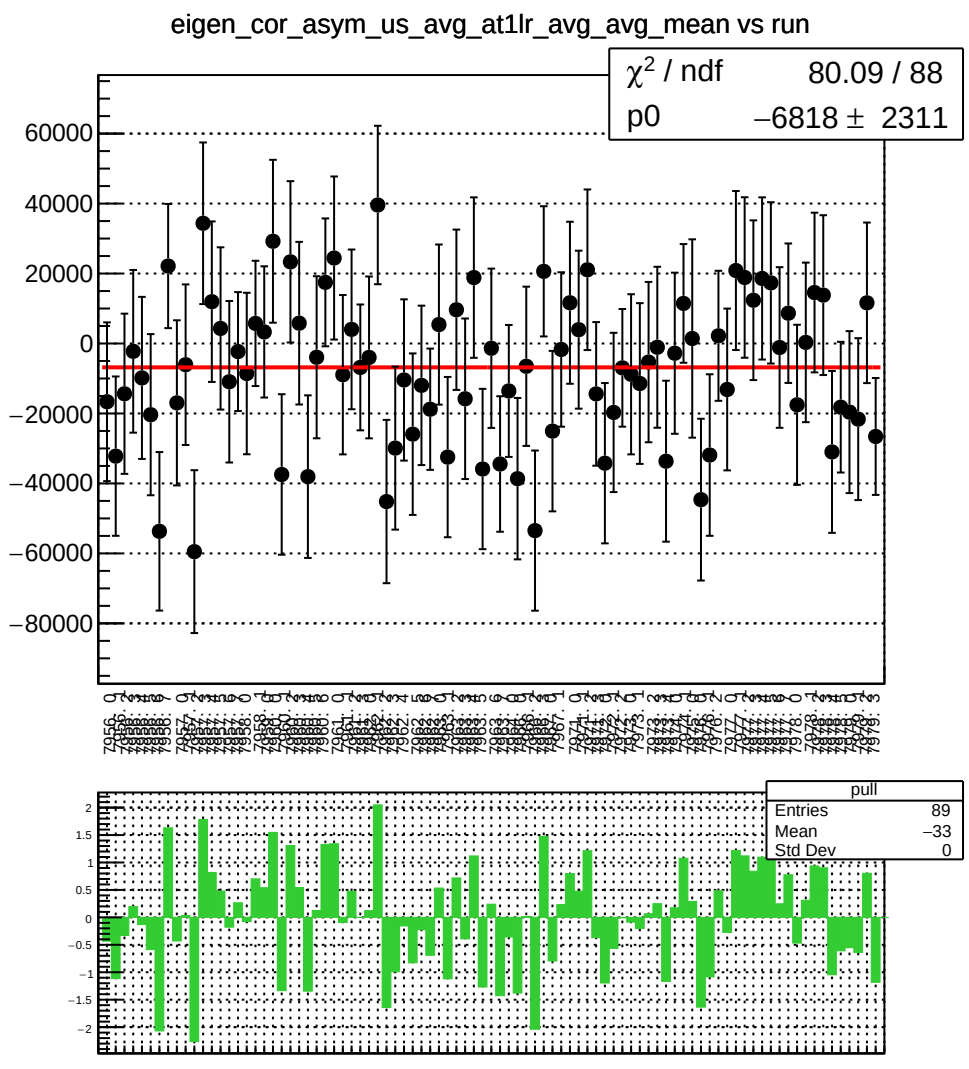

pull1D
Entries 89
Mean −0.01143
Std Dev 0.9486
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

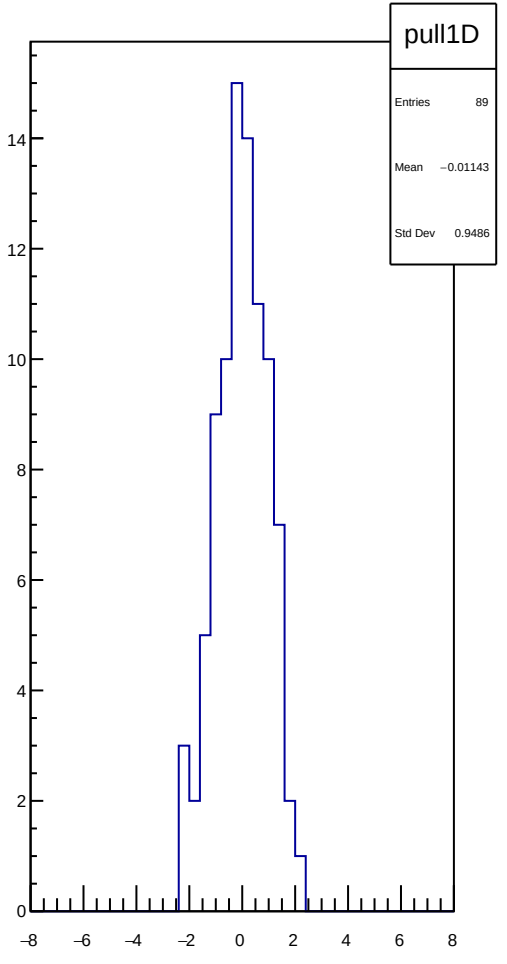

cor_asym_us_avg_at1lr_avg_avg_rms vs run
$\chi^2$ / ndf 231.1 / 88
p0 2186 ± 1.634
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

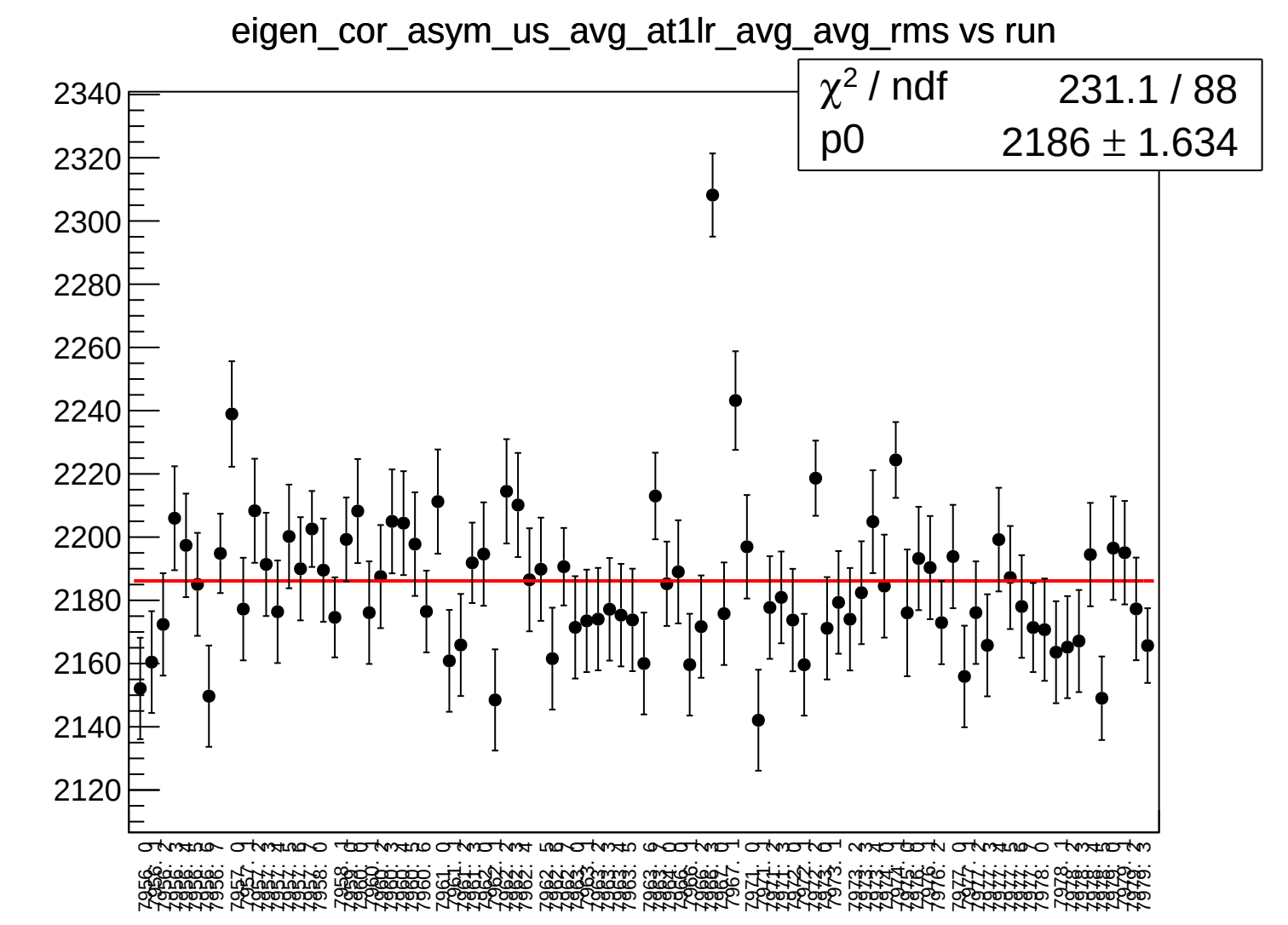

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 83.15 / 88
p0 2799 ± 2160
100
50
0
−50
−100
pull
Entries 89
Mean 129.1
Std Dev 0
2
1
0
−1
−2

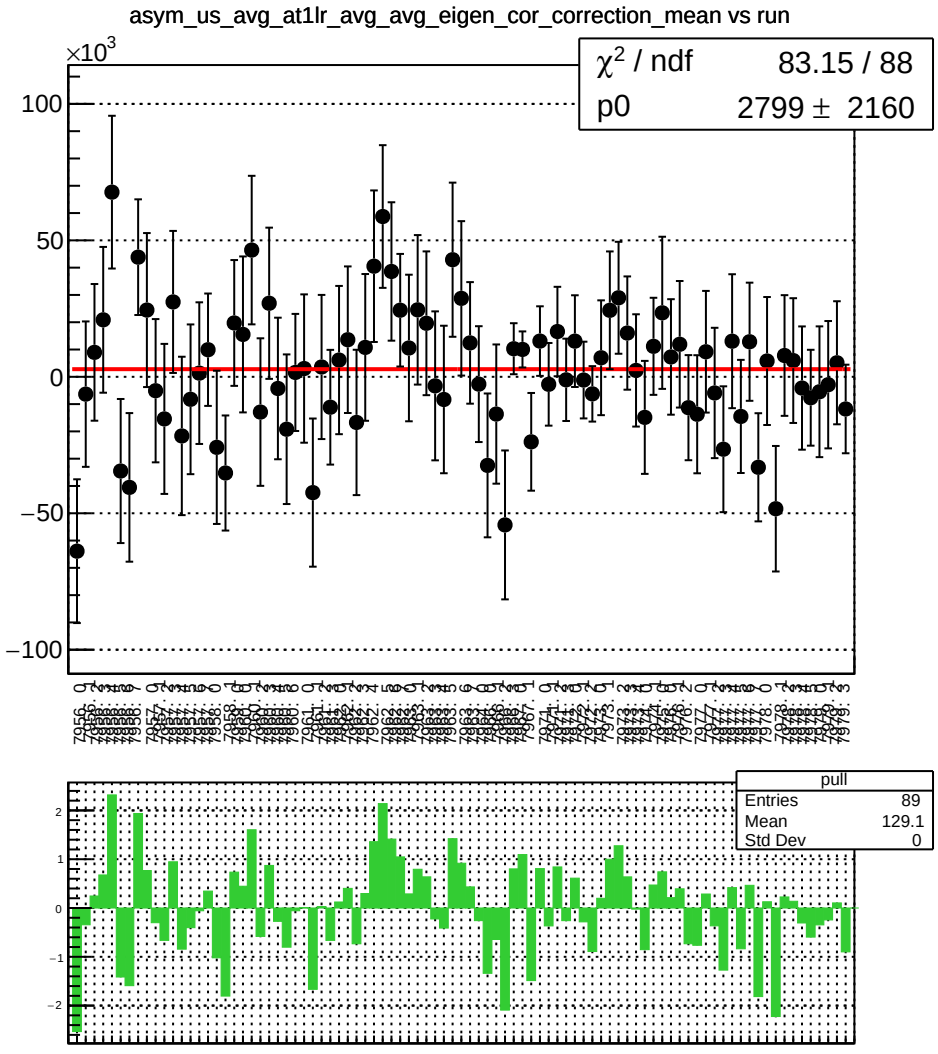

pull1D
Entries 89
Mean −0.02496
Std Dev 0.9663
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

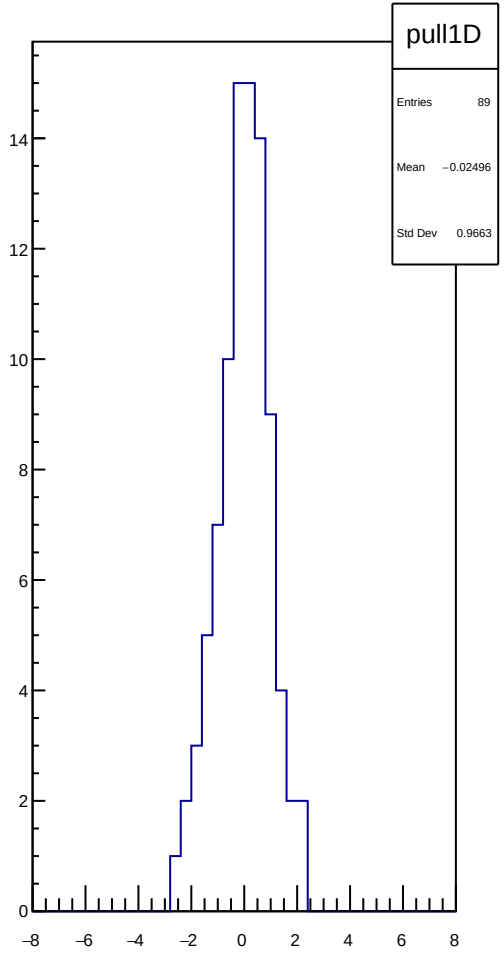

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.812e+05 / 88
p0 1938 ± 1.527
2500
2000
1500
1000
500

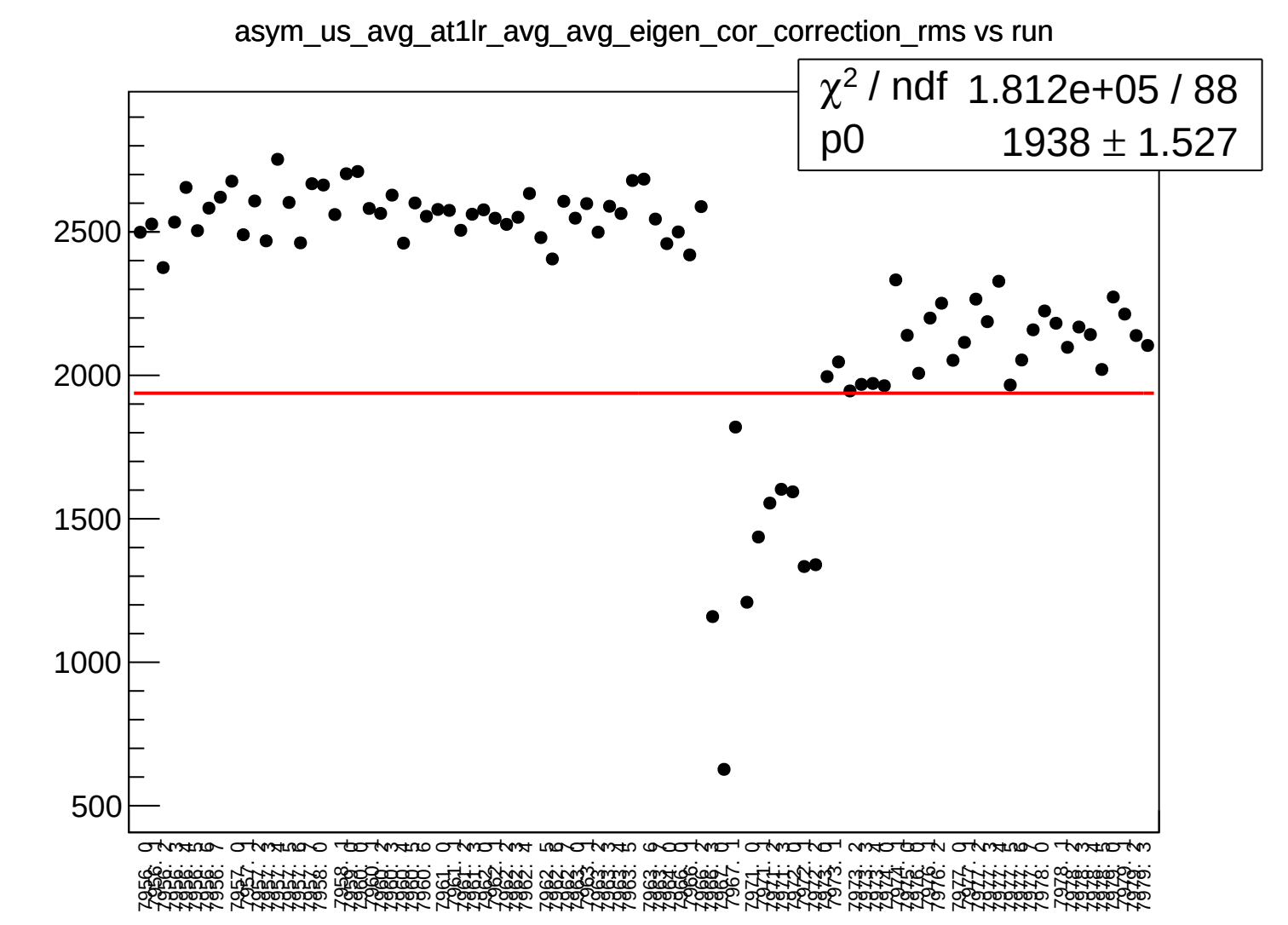

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 80.09 / 88
p0 −6818 ± 2311
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

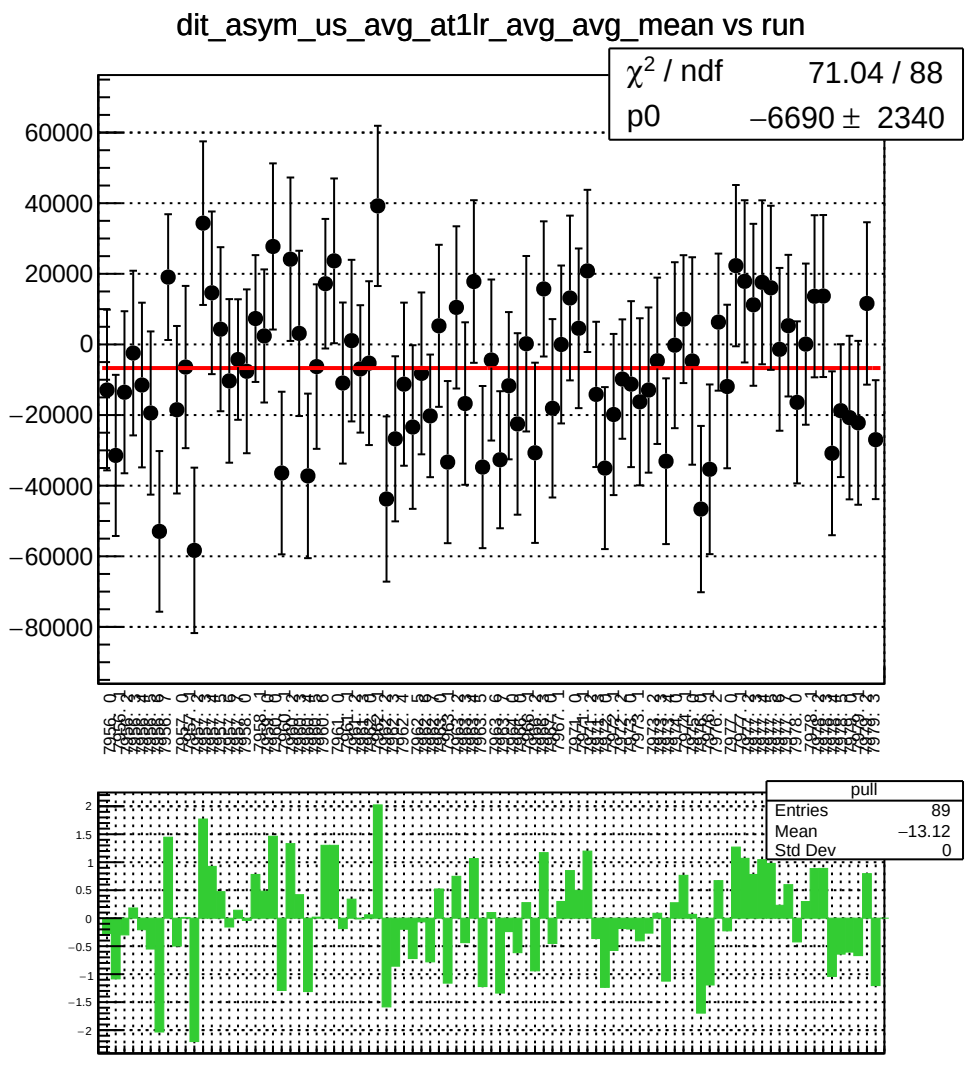

pull1D
Entries 89
Mean −0.01143
Std Dev 0.9486
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

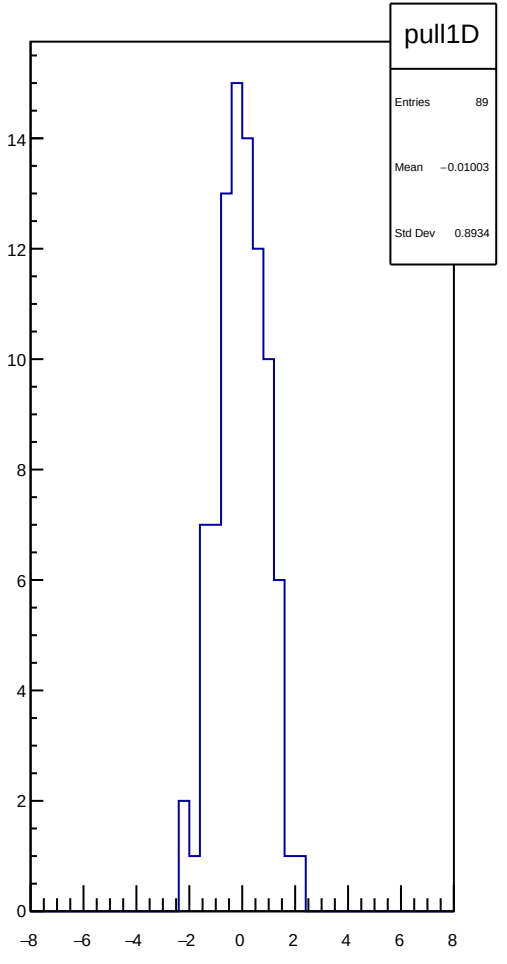

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 231.1 / 88
p0 2186 ± 1.634
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

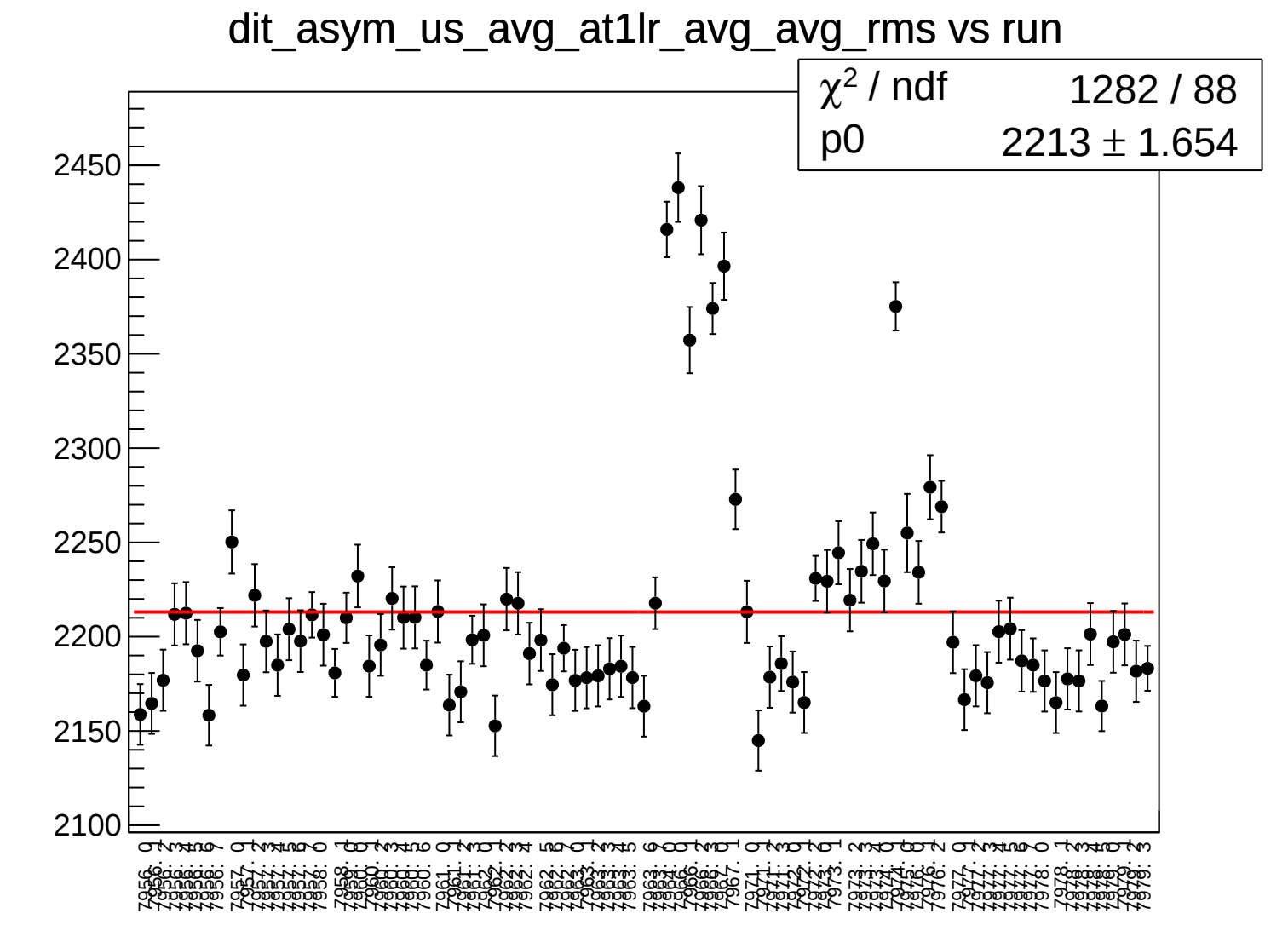

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 83.15 / 88
p0 2799 ± 2160
100
50
0
−50
−100
pull
Entries 89
Mean 129.1
Std Dev 0
2
1
0
−1
−2

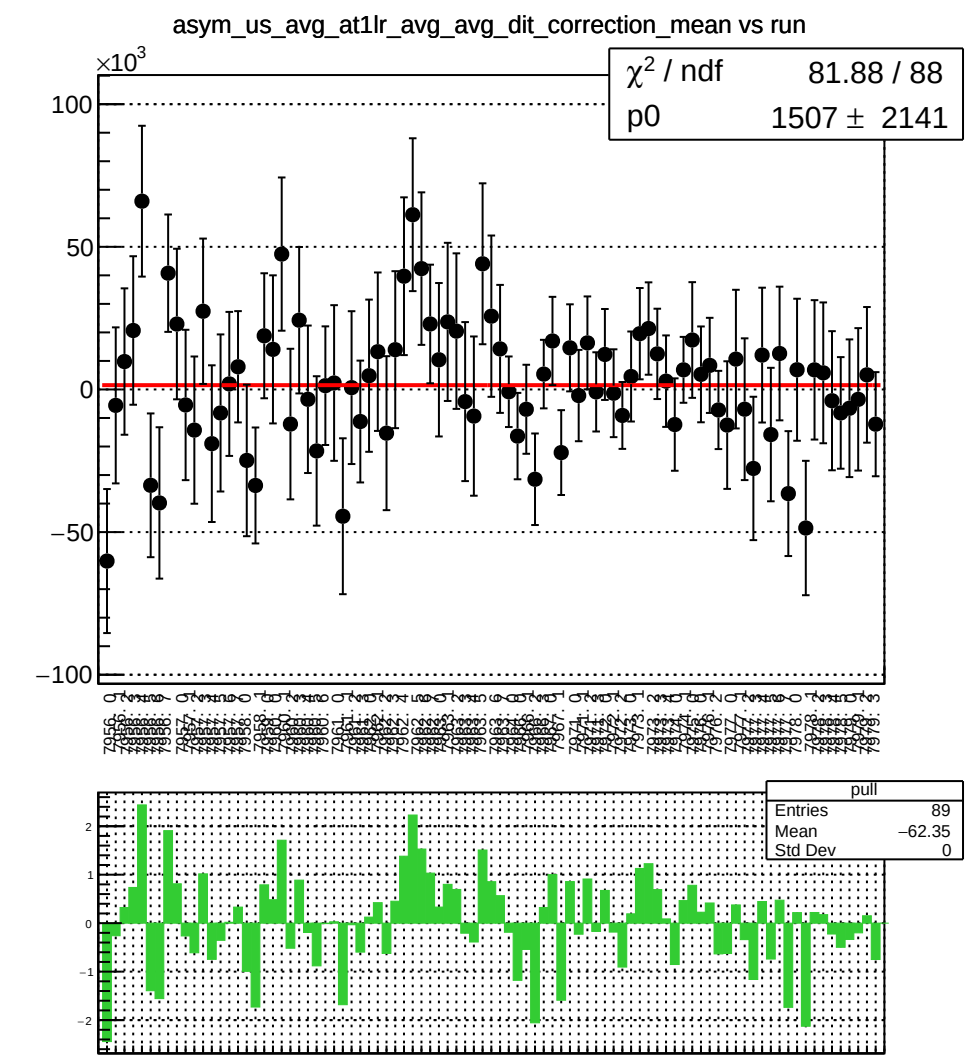

pull1D
Entries 89
Mean −0.02496
Std Dev 0.9663
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

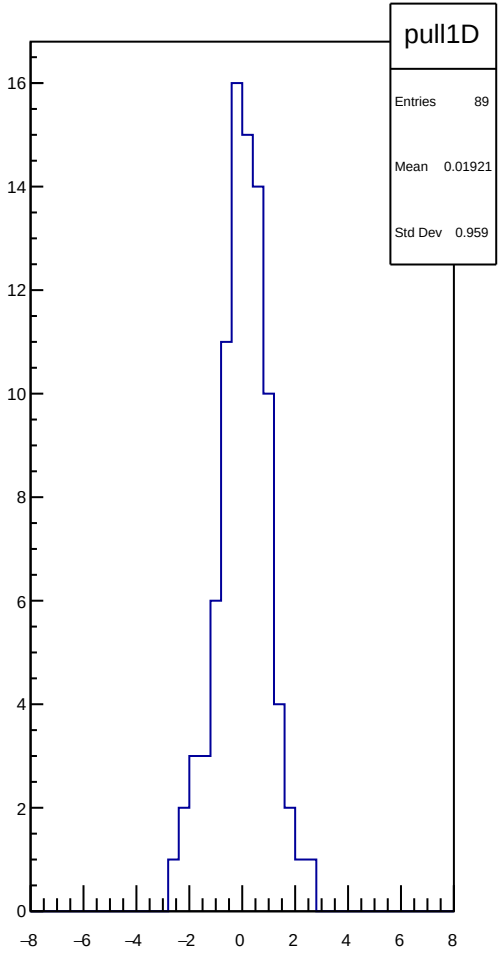

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.812e+05 / 88
p0 1938 ± 1.527
2500
2000
1500
1000
500

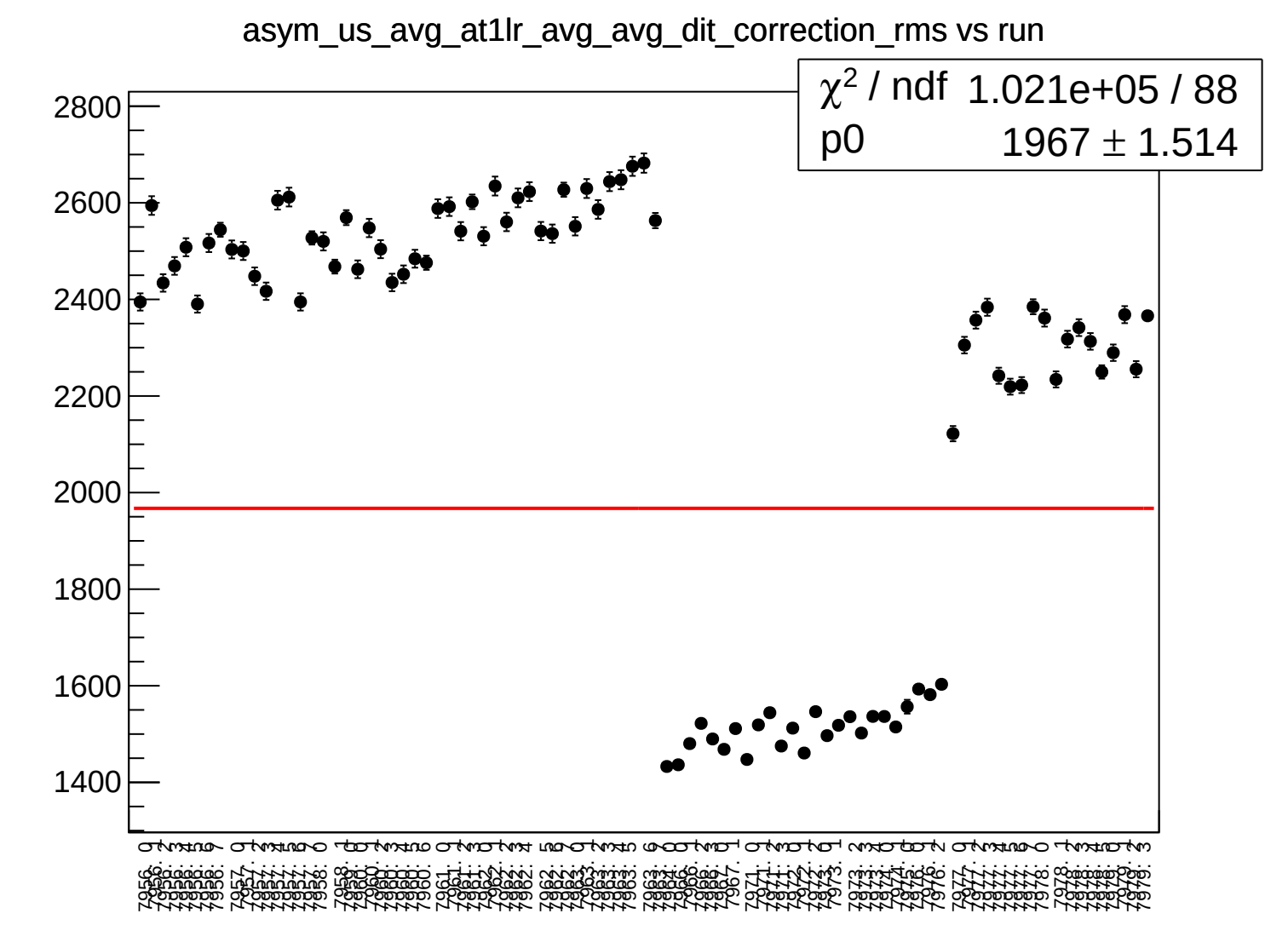

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 71.04 / 88
p0 −6690 ± 2340
pull
Entries 89
Mean −13.12
Std Dev 0

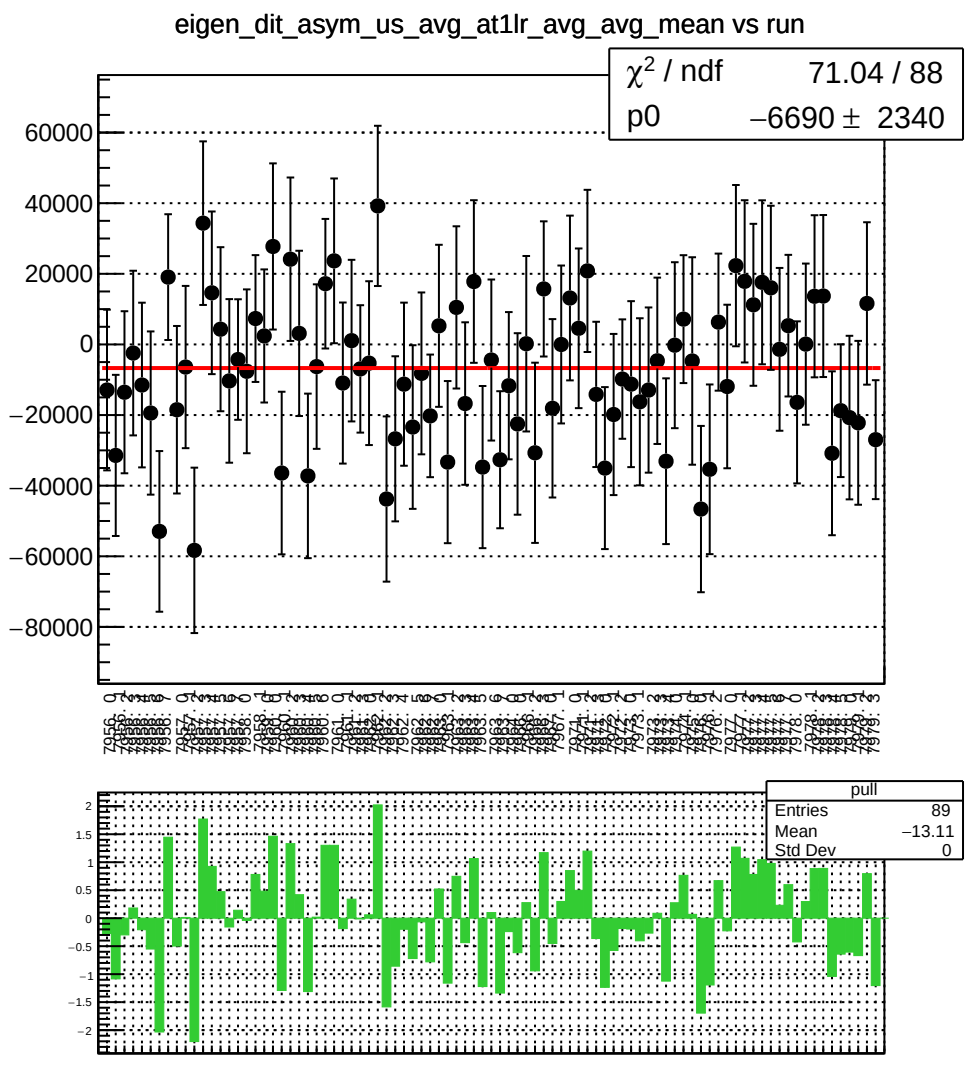

pull1D
Entries 89
Mean −0.01003
Std Dev 0.8934

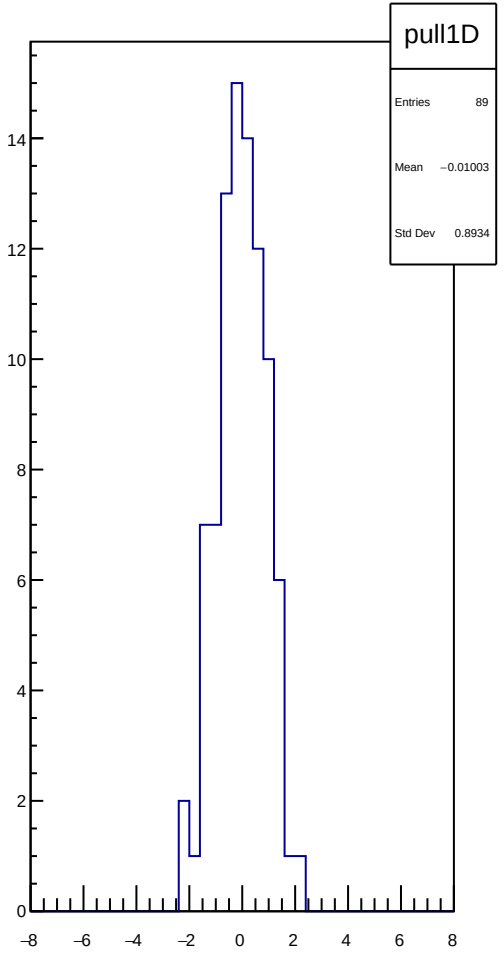

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1282 / 88
p0 2213 ± 1.654
2450
2400
2350
2300
2250
2200
2150
2100

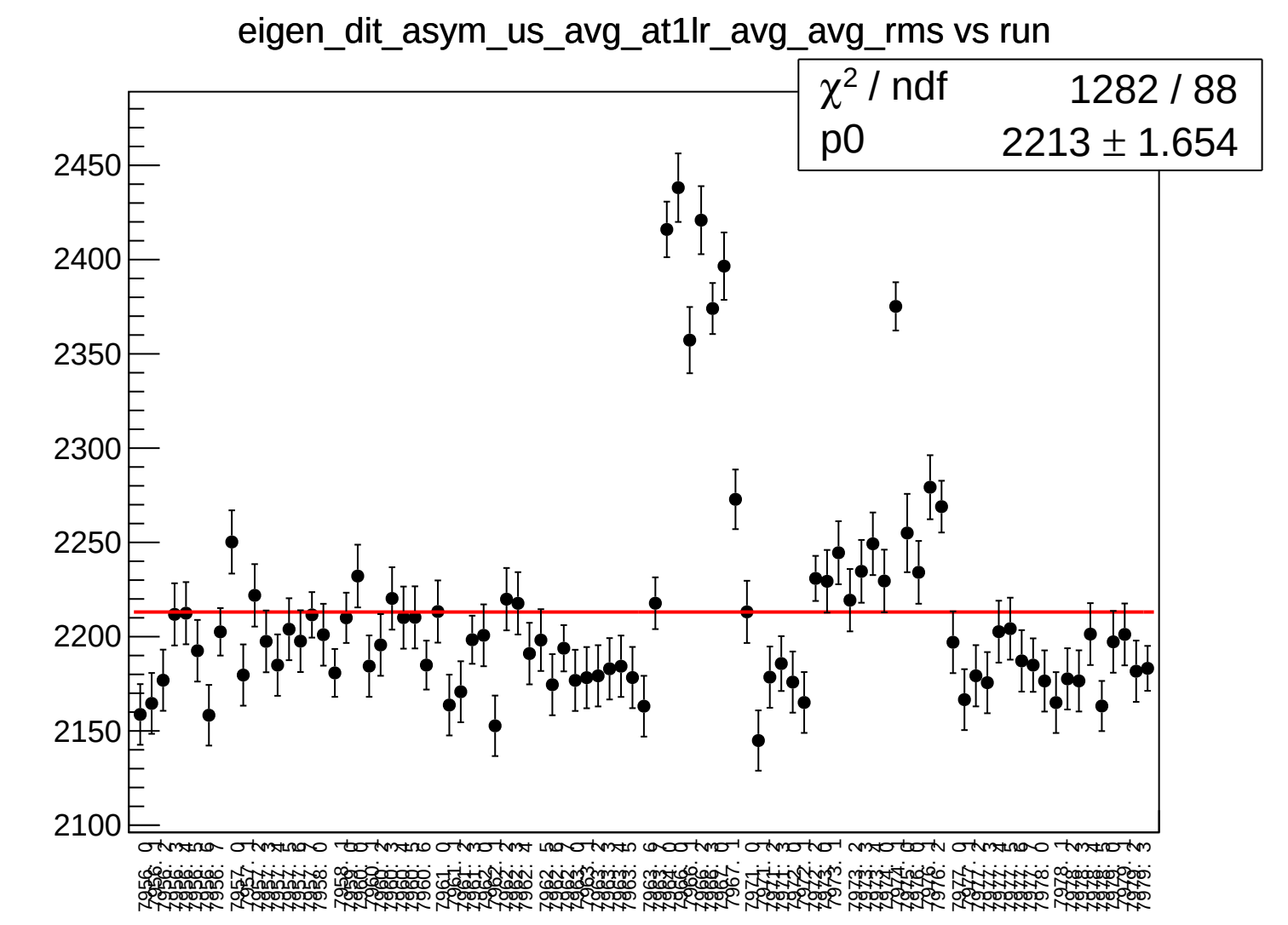

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.88 / 88
p0 1507 ± 2141
100
50
0
−50
−100
pull
Entries 89
Mean −62.35
Std Dev 0
2
1
0
−1
−2

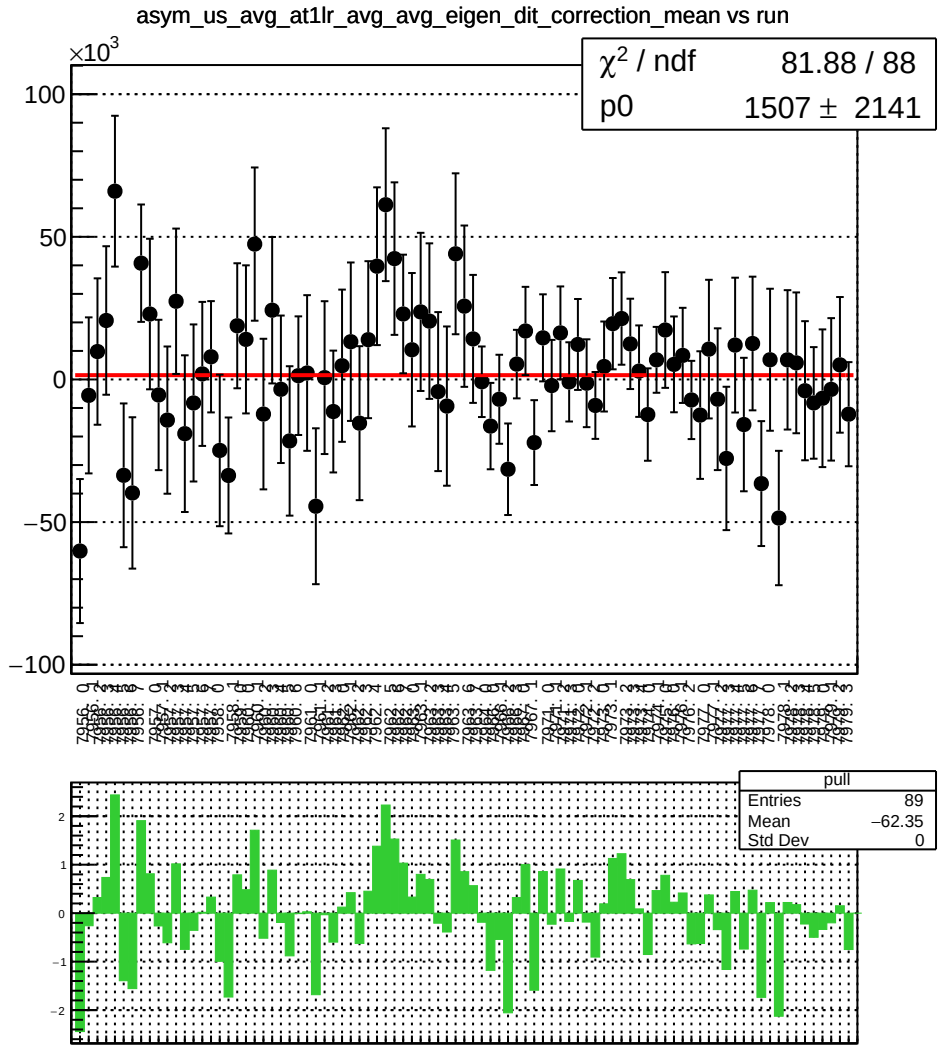

pull1D
Entries 89
Mean 0.01921
Std Dev 0.959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

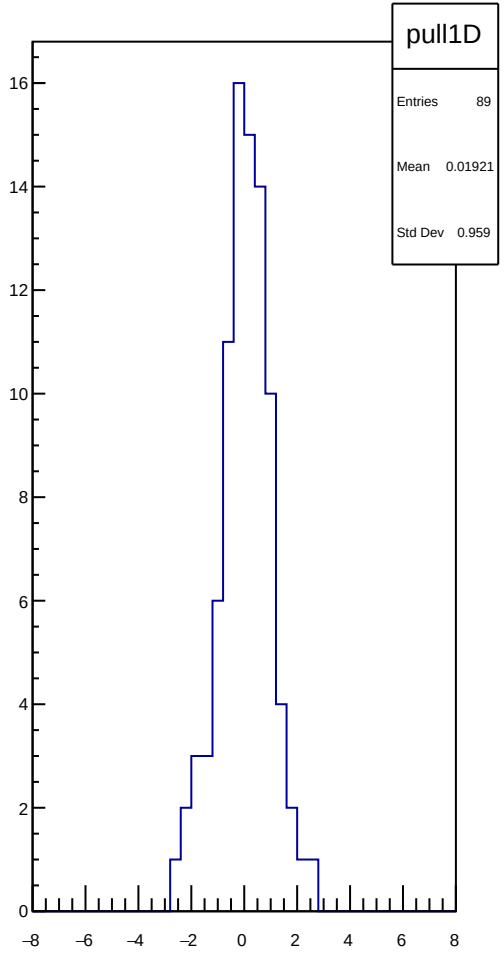

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.021e+05 / 88
p0 1967 ± 1.514
2800
2600
2400
2200
2000
1800
1600
1400

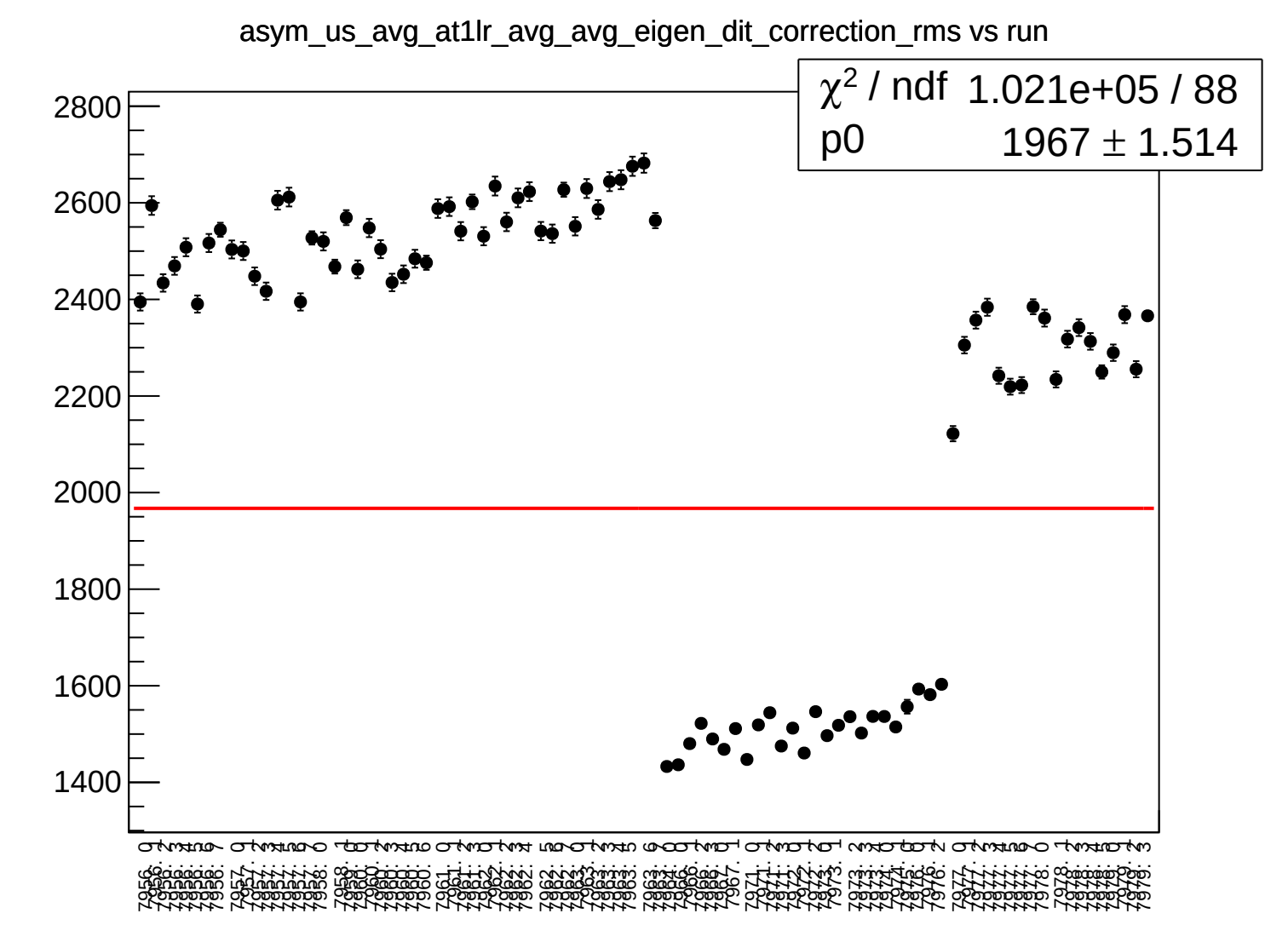

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 71.04 / 88
p0 −6690 ± 2340
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −13.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

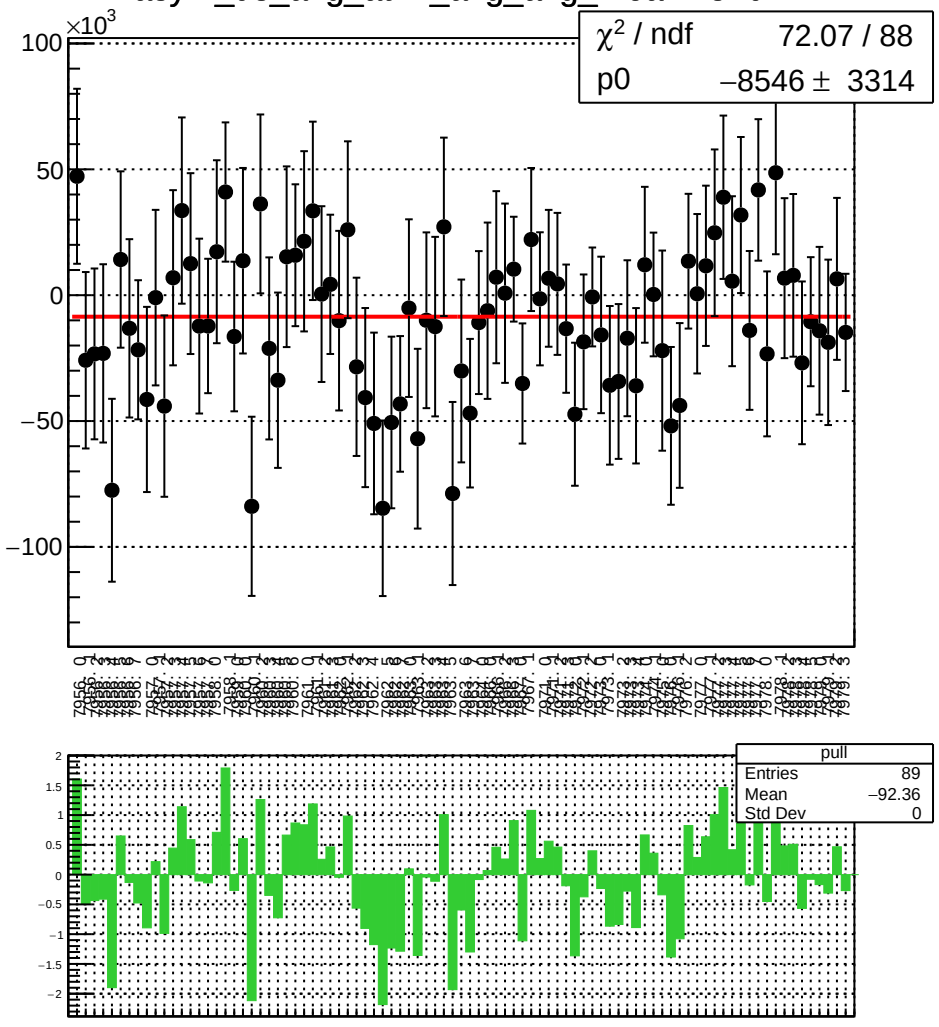

pull1D
Entries 89
Mean −0.01003
Std Dev 0.8934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

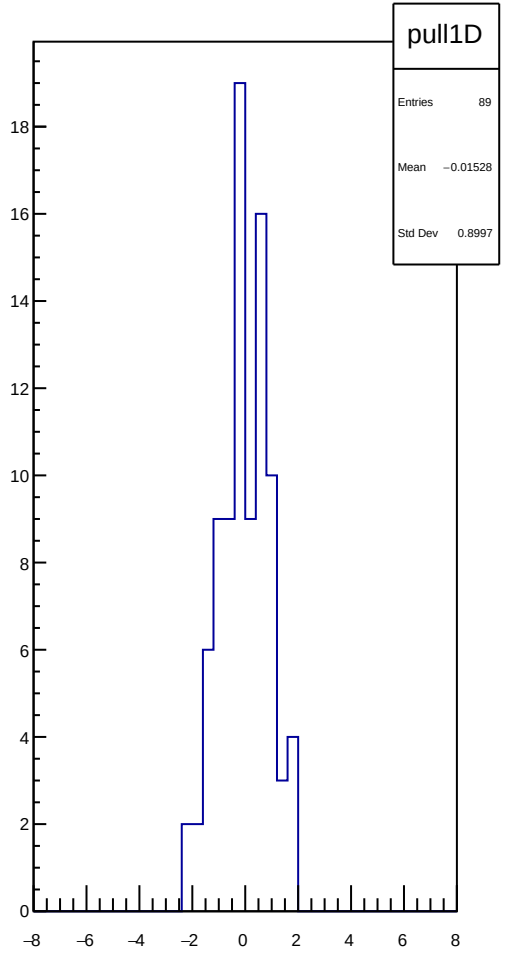

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1282 / 88
p0 2213 ± 1.654
2450
2400
2350
2300
2250
2200
2150
2100

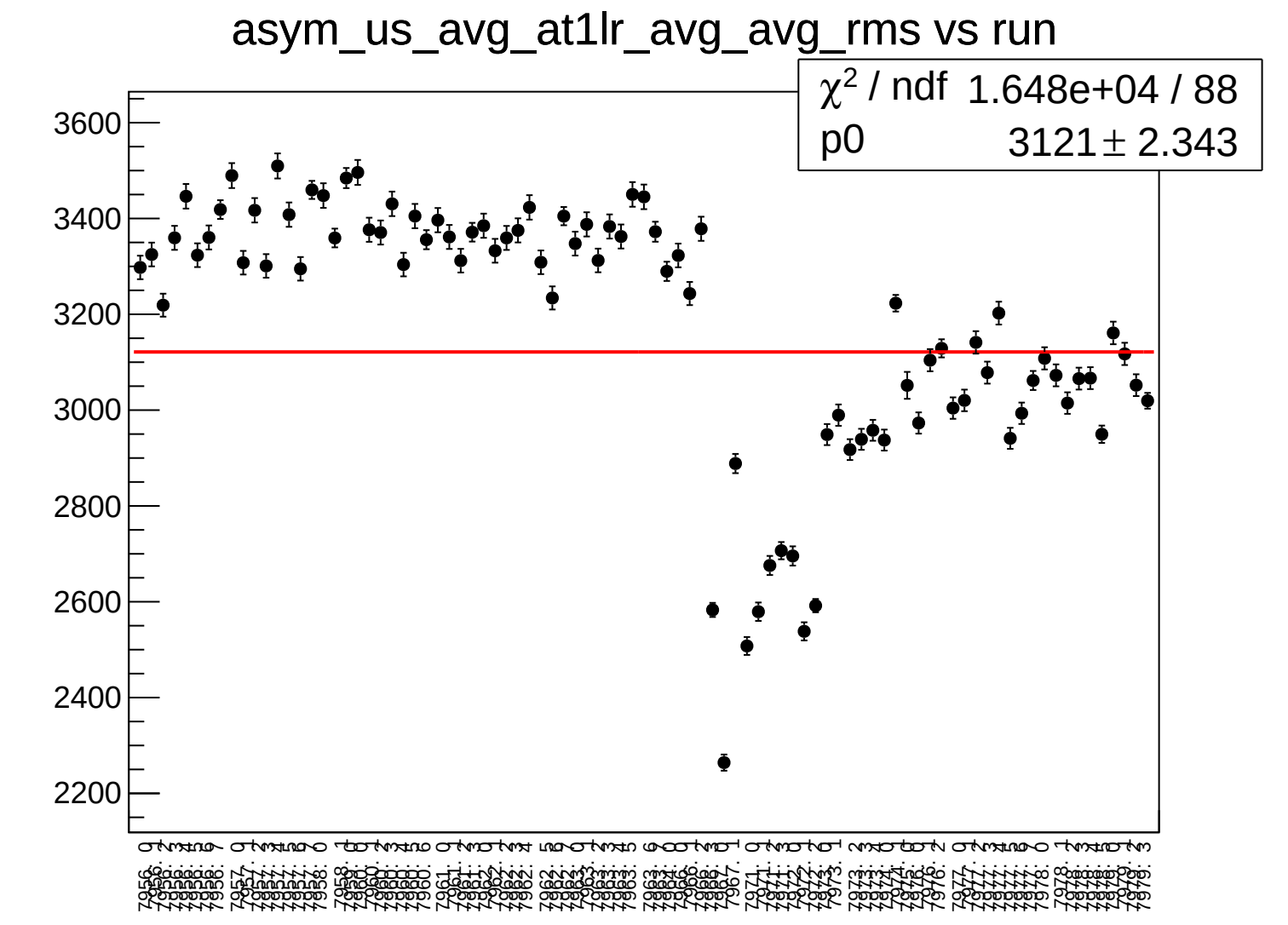

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.88 / 88
p0 1507 ± 2141
100
50
0
−50
−100
pull
Entries 89
Mean −62.35
Std Dev 0
2
1
0
−1
−2

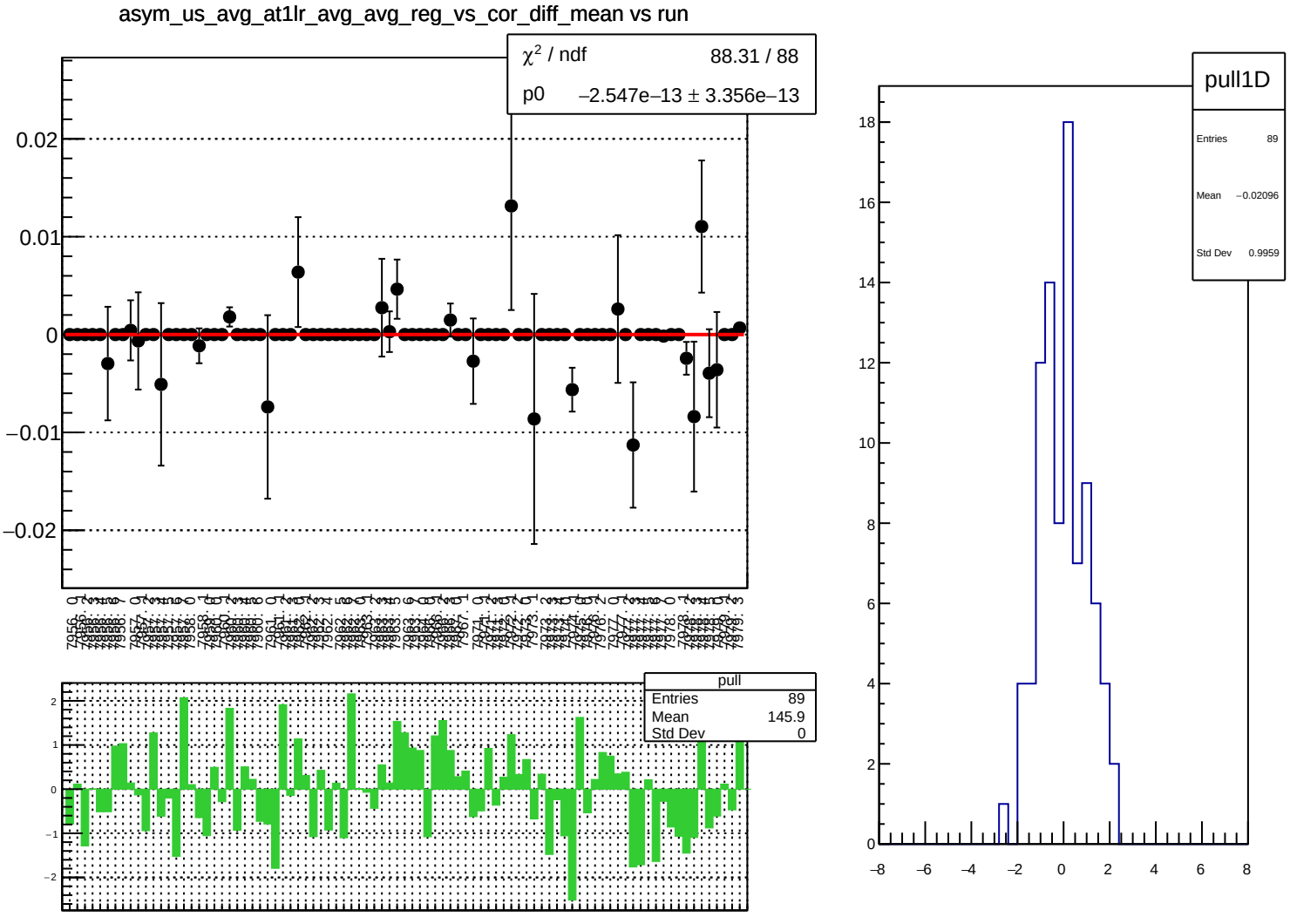

pull1D
Entries 89
Mean 0.01921
Std Dev 0.959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

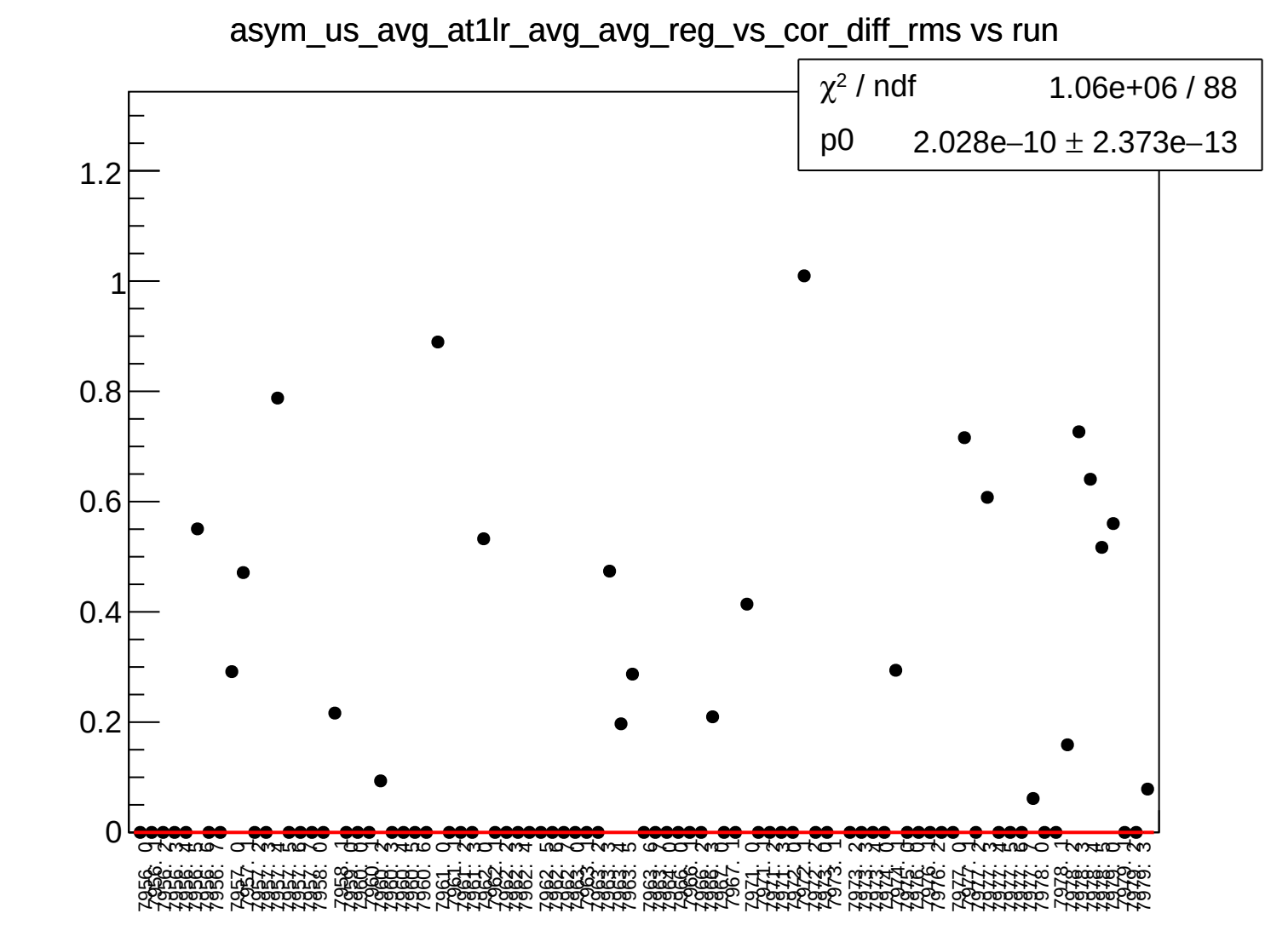

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.021e+05 / 88
p0 1967 ± 1.514
2800
2600
2400
2200
2000
1800
1600
1400

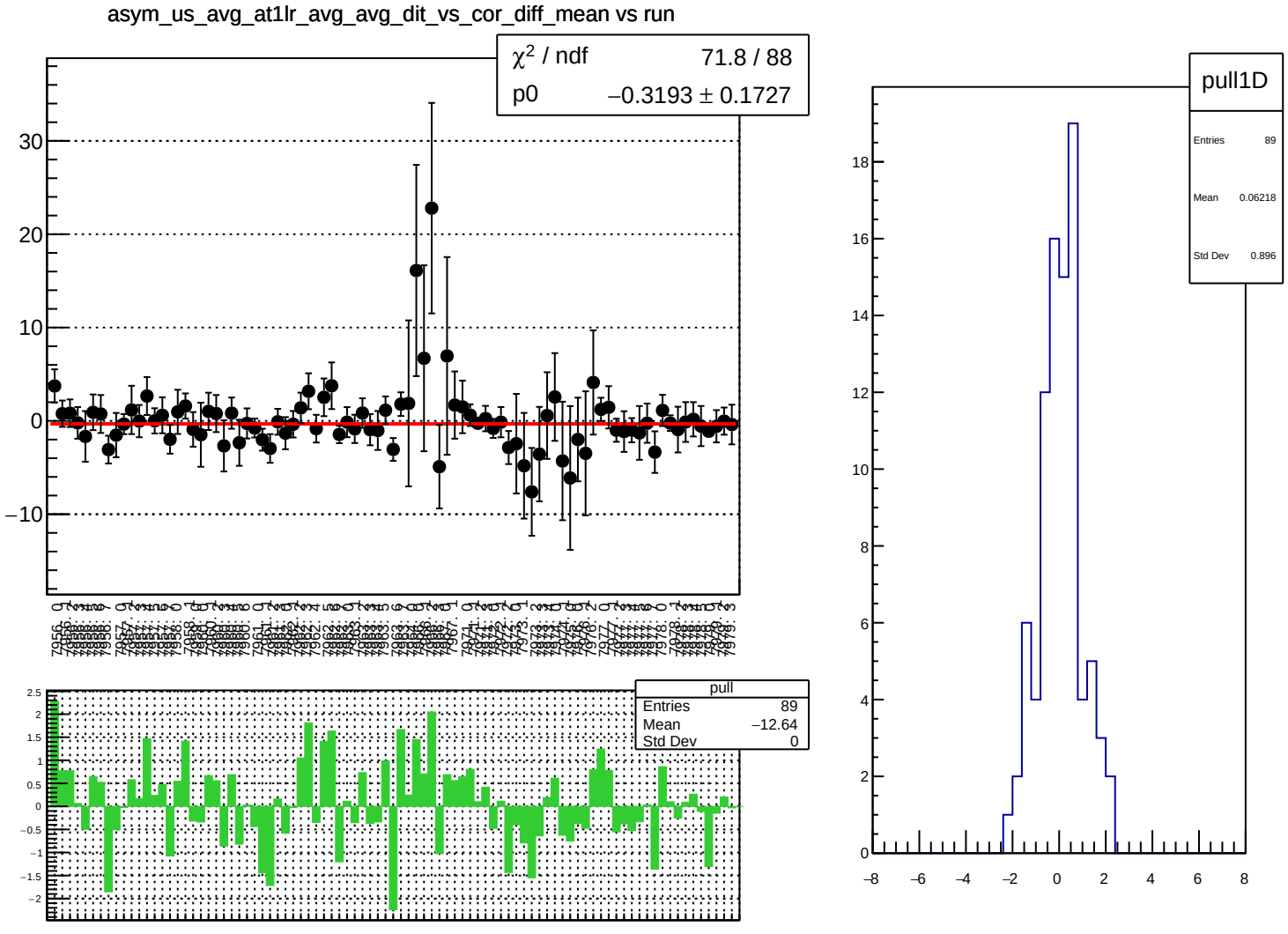

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 72.07 / 88
p0 −8546 ± 3314
100
50
0
−50
−100
pull
Entries 89
Mean −92.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

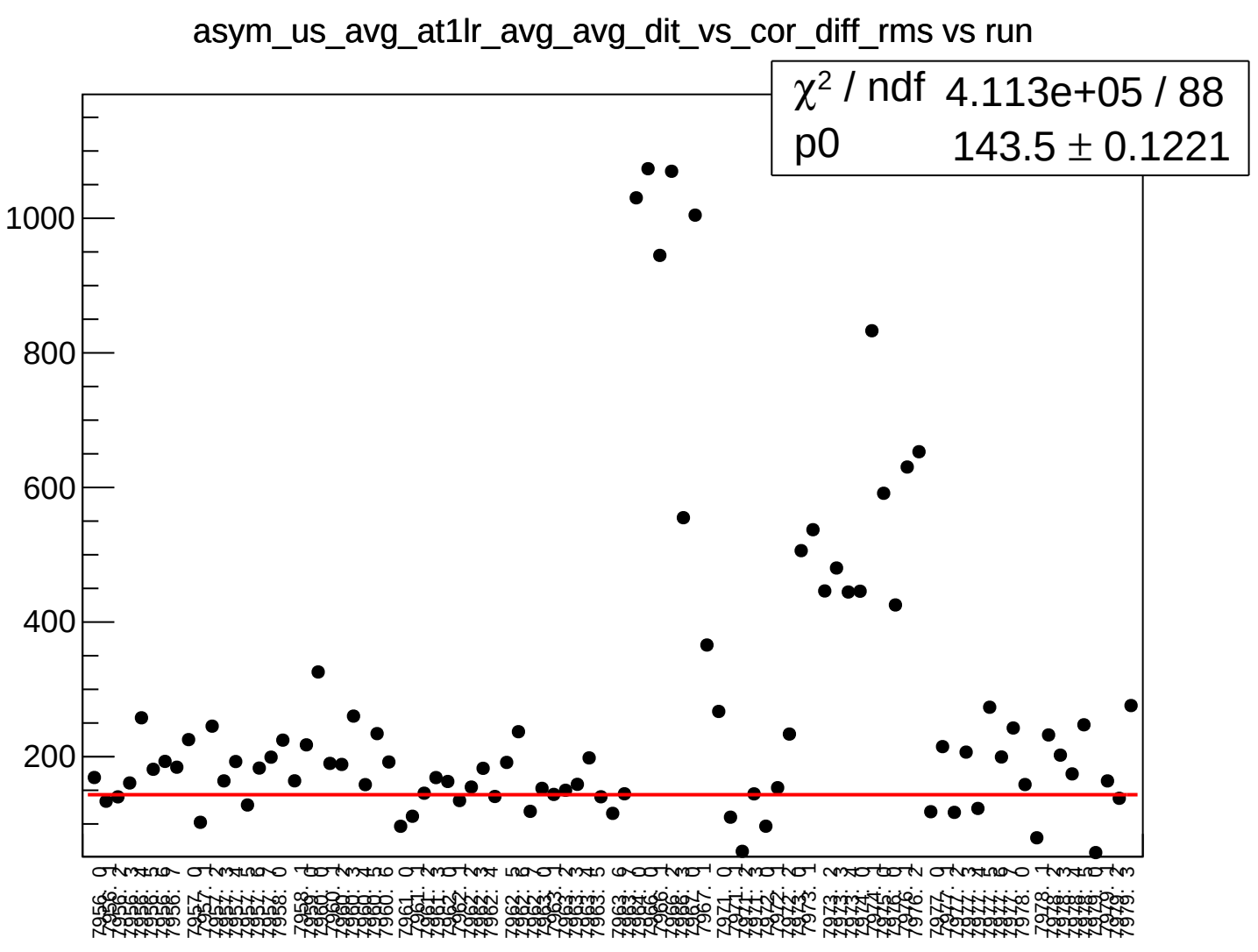

pull1D
Entries 89
Mean −0.01528
Std Dev 0.8997
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

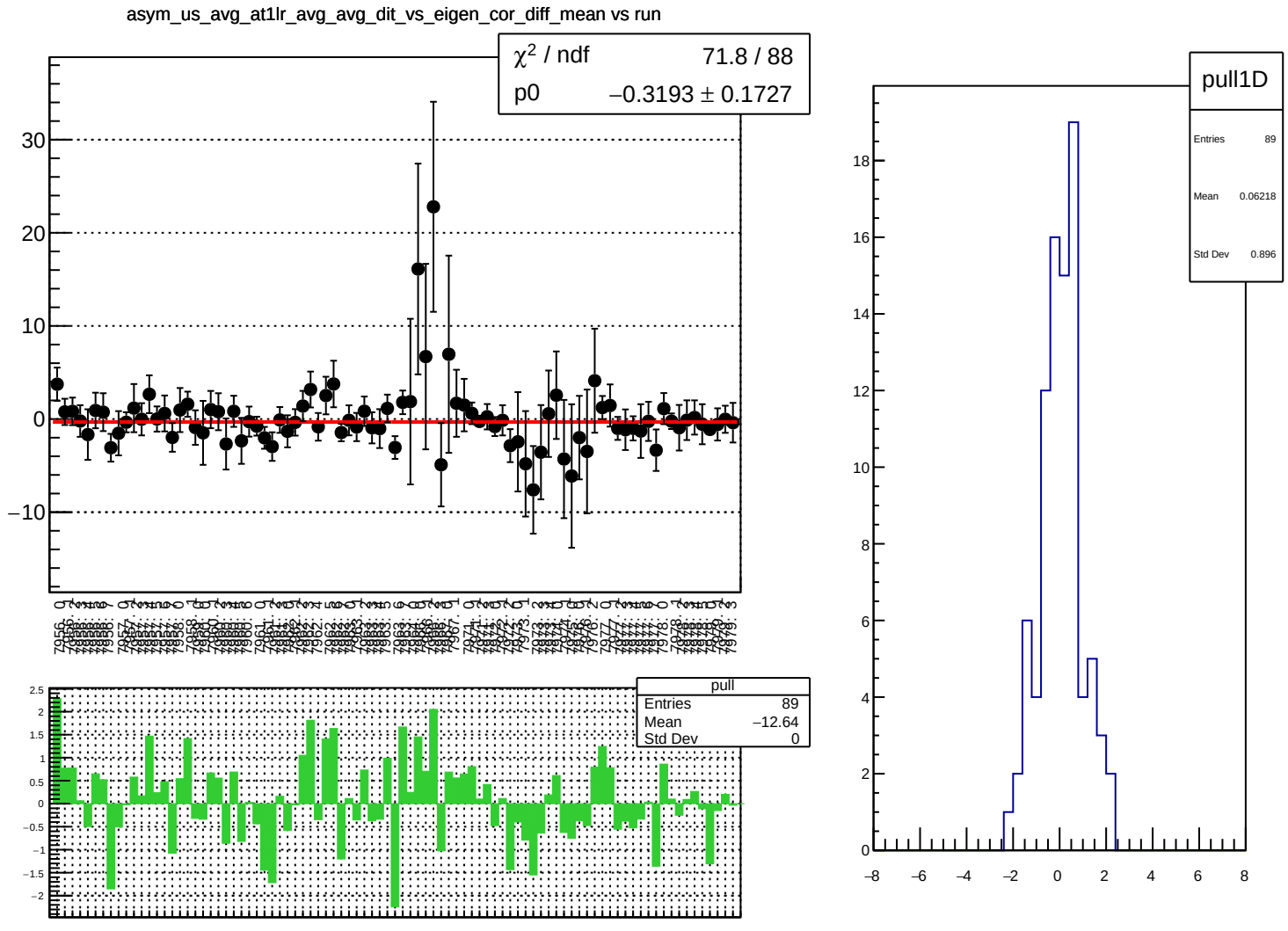

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1.648e+04 / 88
p0 3121 ± 2.343
3600
3400
3200
3000
2800
2600
2400
2200

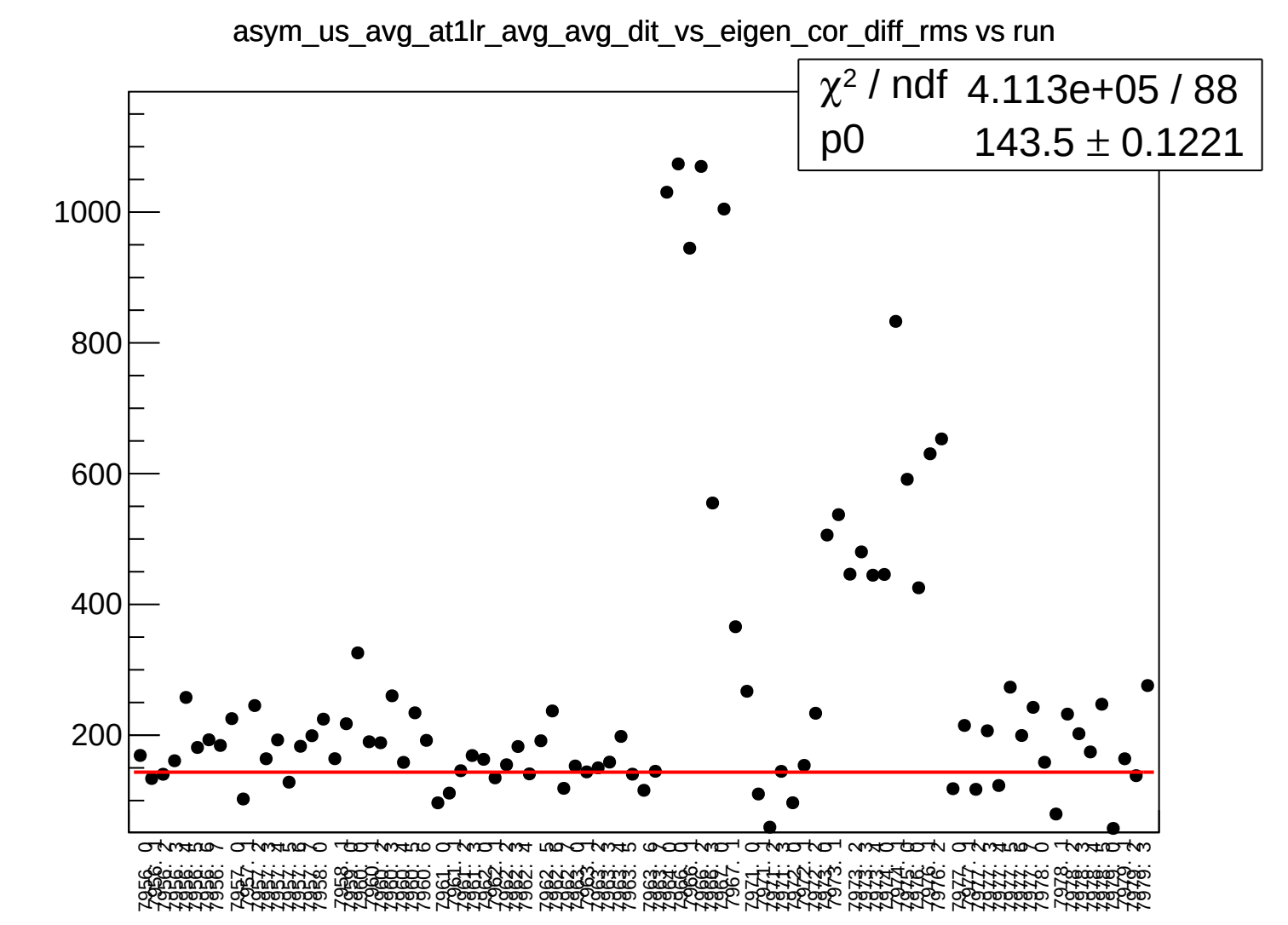

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.31 / 88
p0 −2.547e−13 ± 3.356e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 145.9
Std Dev 0
pull1D
Entries 89
Mean −0.02096
Std Dev 0.9959
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

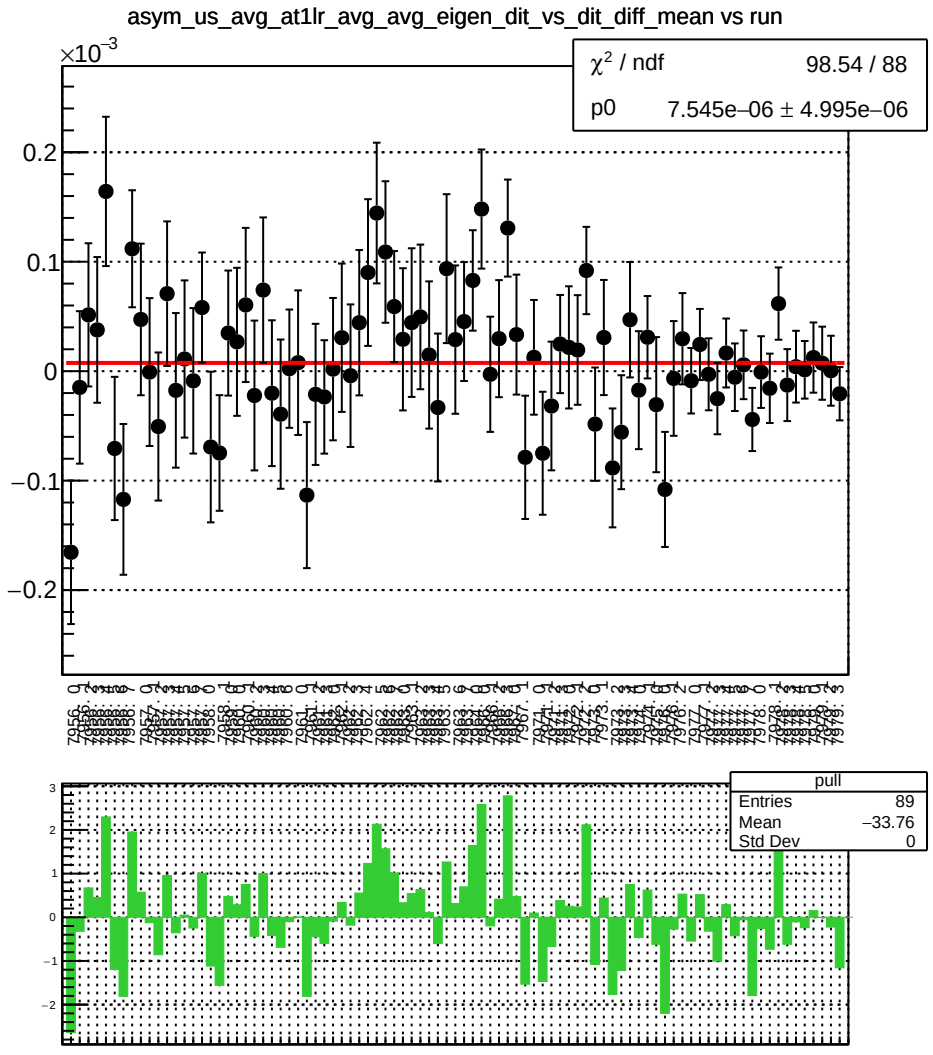

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.06e+06 / 88
p0 2.028e−10 ± 2.373e−13
1.2
1
0.8
0.6
0.4
0.2
0

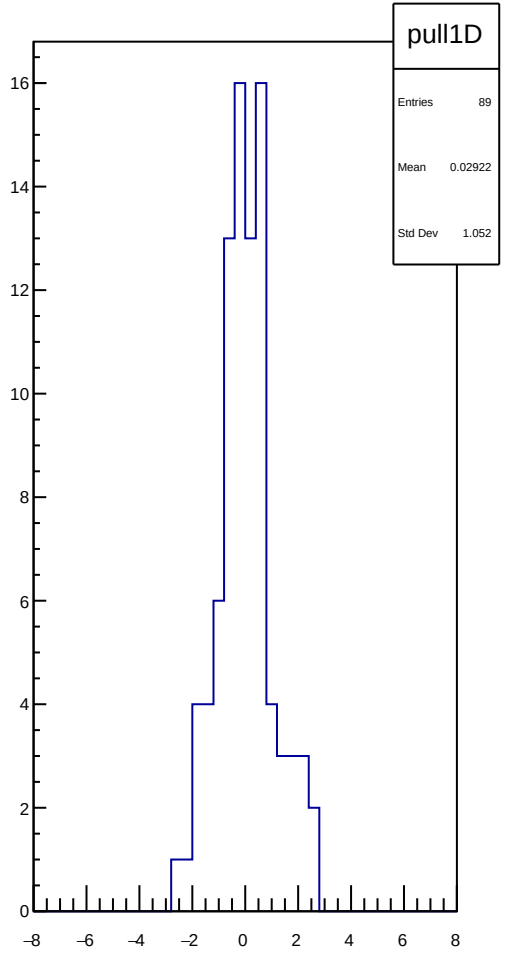

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.8 / 88
p0 −0.3193 ± 0.1727
30
20
10
0
−10
pull
Entries 89
Mean −12.64
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.06218
Std Dev 0.896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

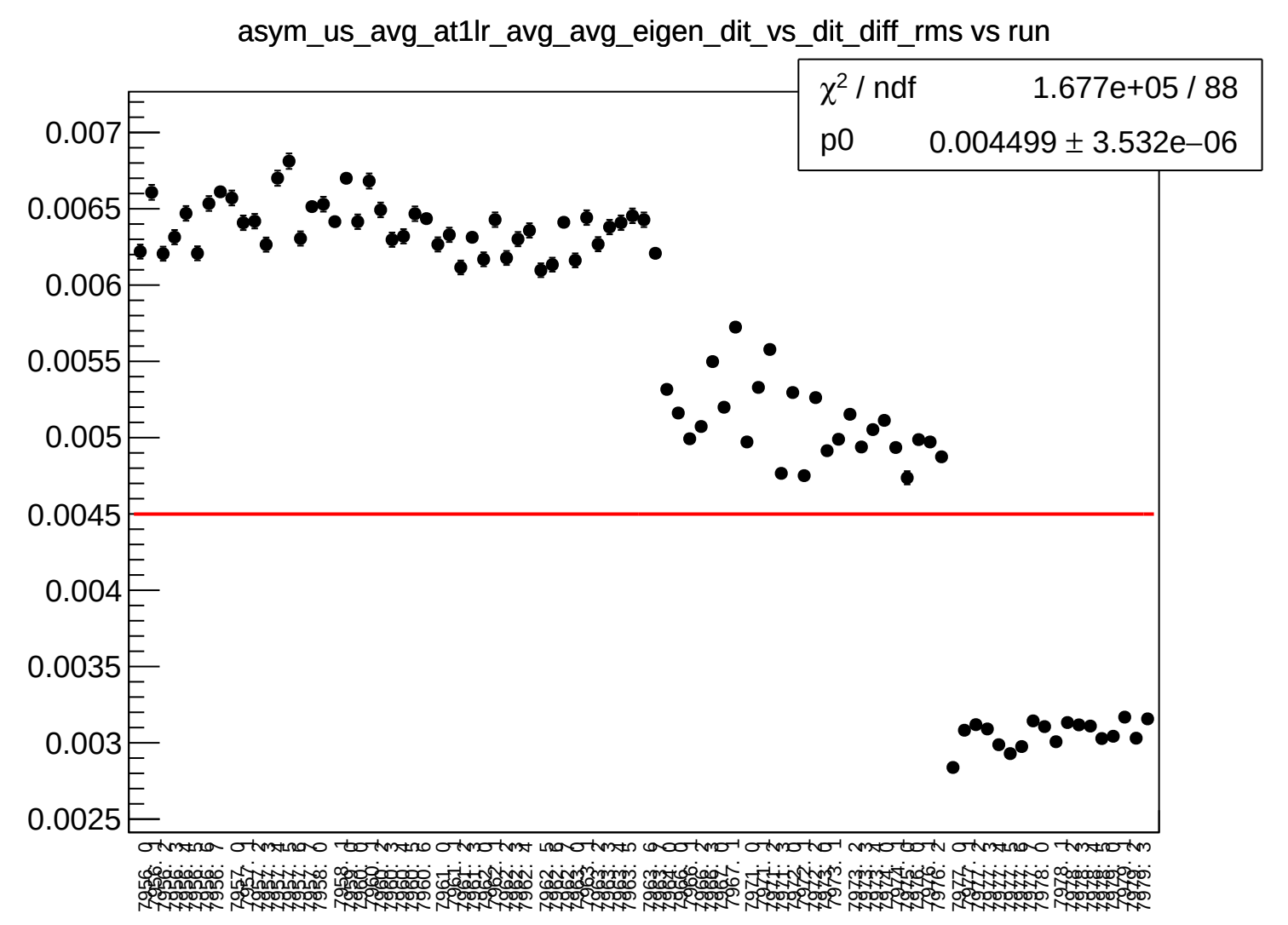

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.113e+05 / 88
p0 143.5 ± 0.1221
1000
800
600
400
200

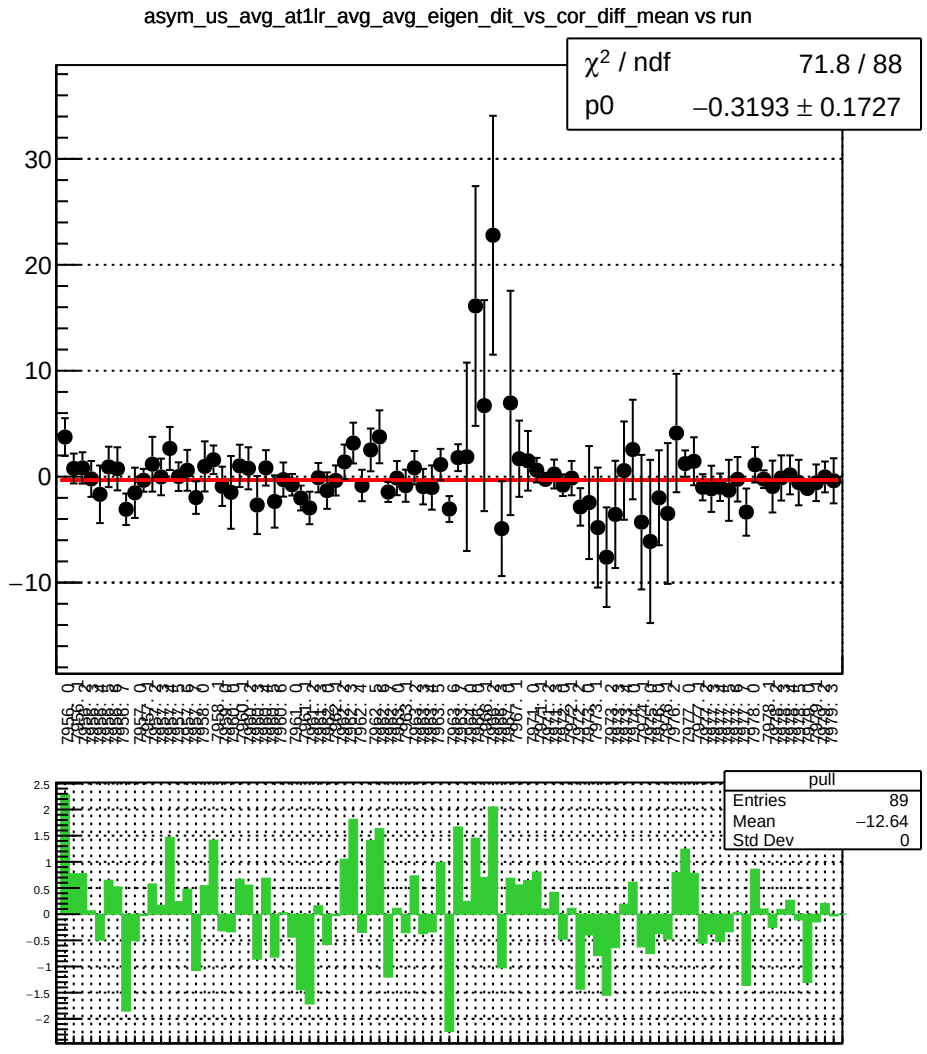

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.8 / 88
p0 −0.3193 ± 0.1727
30
20
10
0
−10
pull
Entries 89
Mean −12.64
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.06218
Std Dev 0.896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

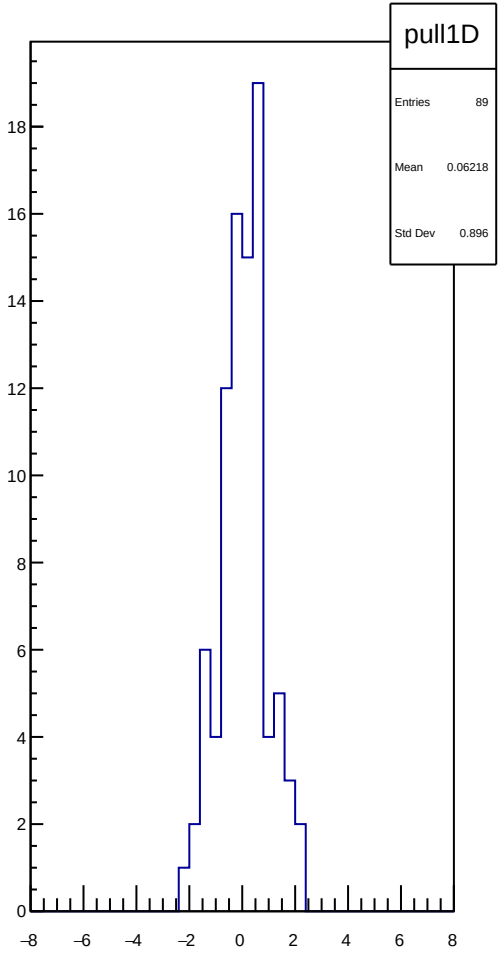

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.113e+05 / 88
p0 143.5 ± 0.1221
1000
800
600
400
200

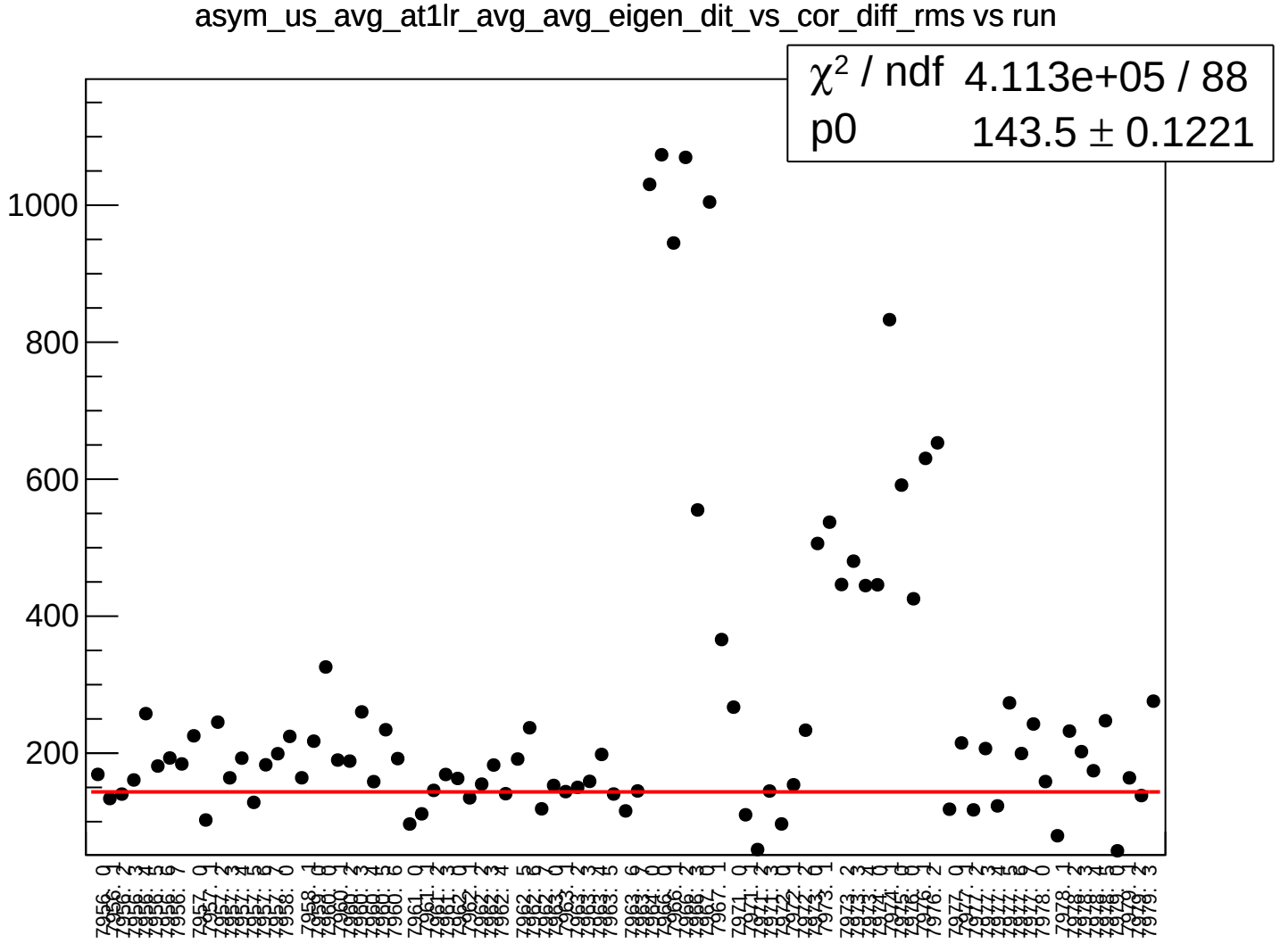

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.54 / 88
p0 7.545e−06 ± 4.995e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean −33.76
Std Dev 0
3
2
1
0
−1
−2

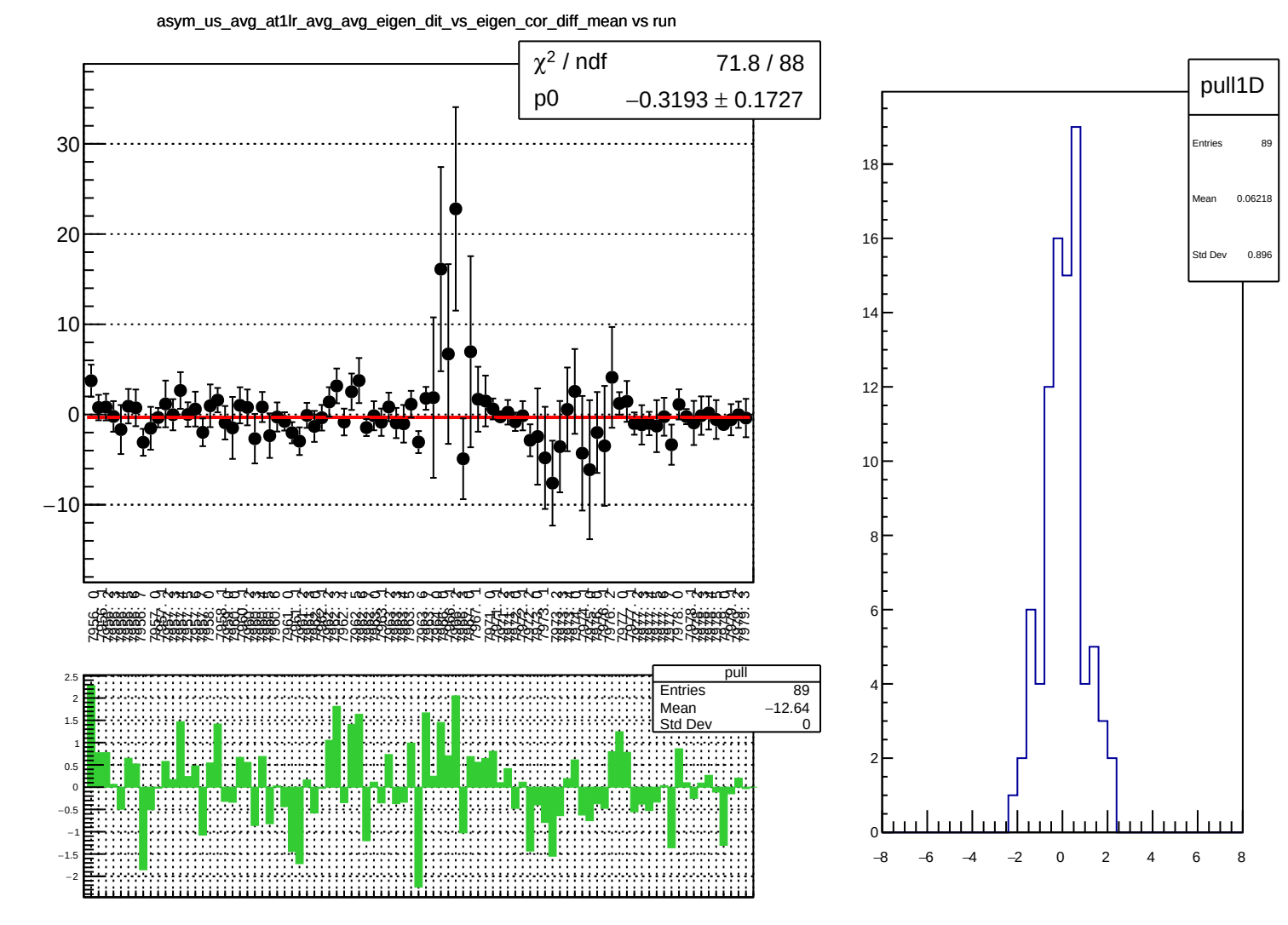

pull1D
Entries 89
Mean 0.02922
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

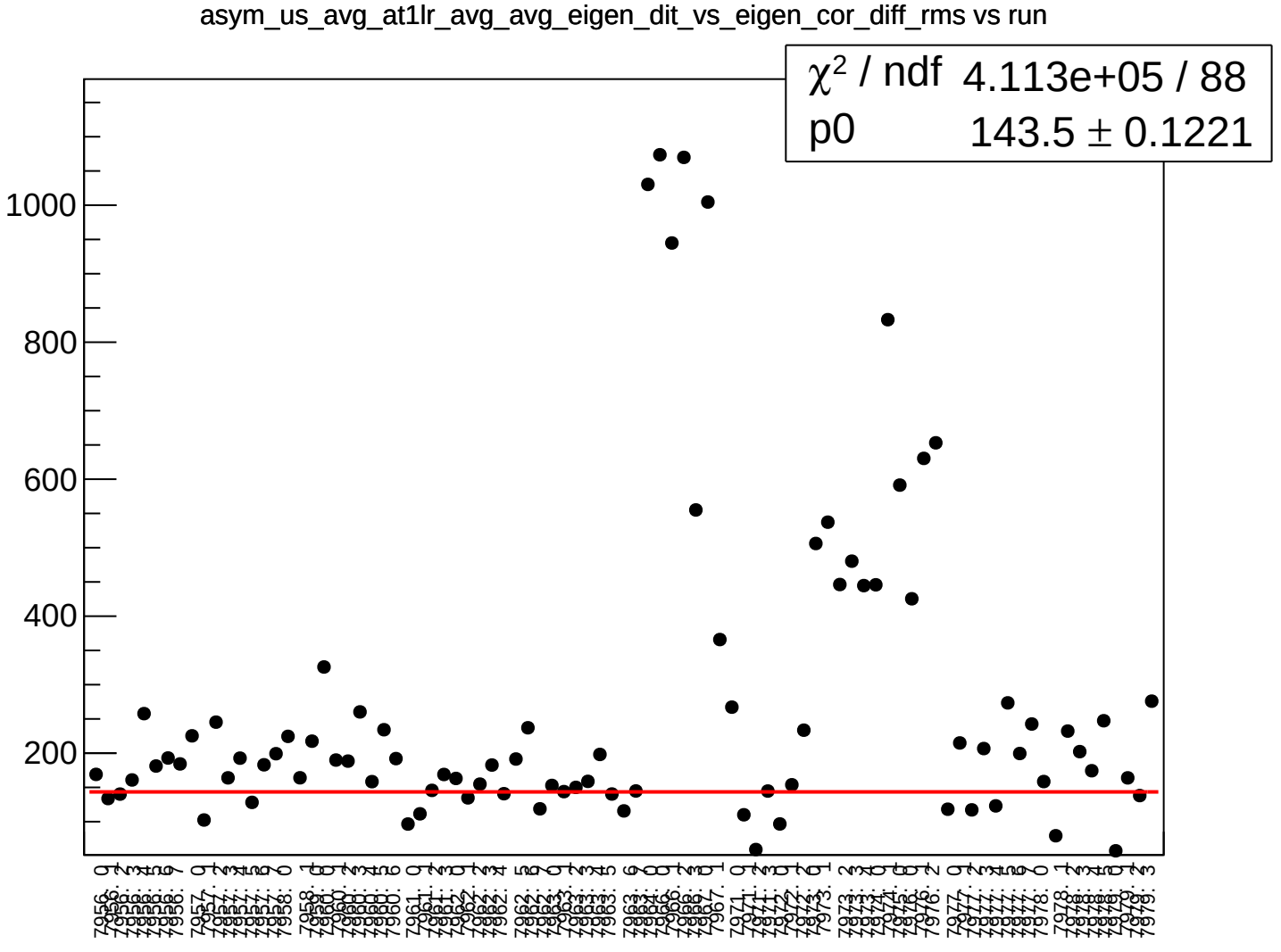

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.677e+05 / 88
p0 0.004499 ± 3.532e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

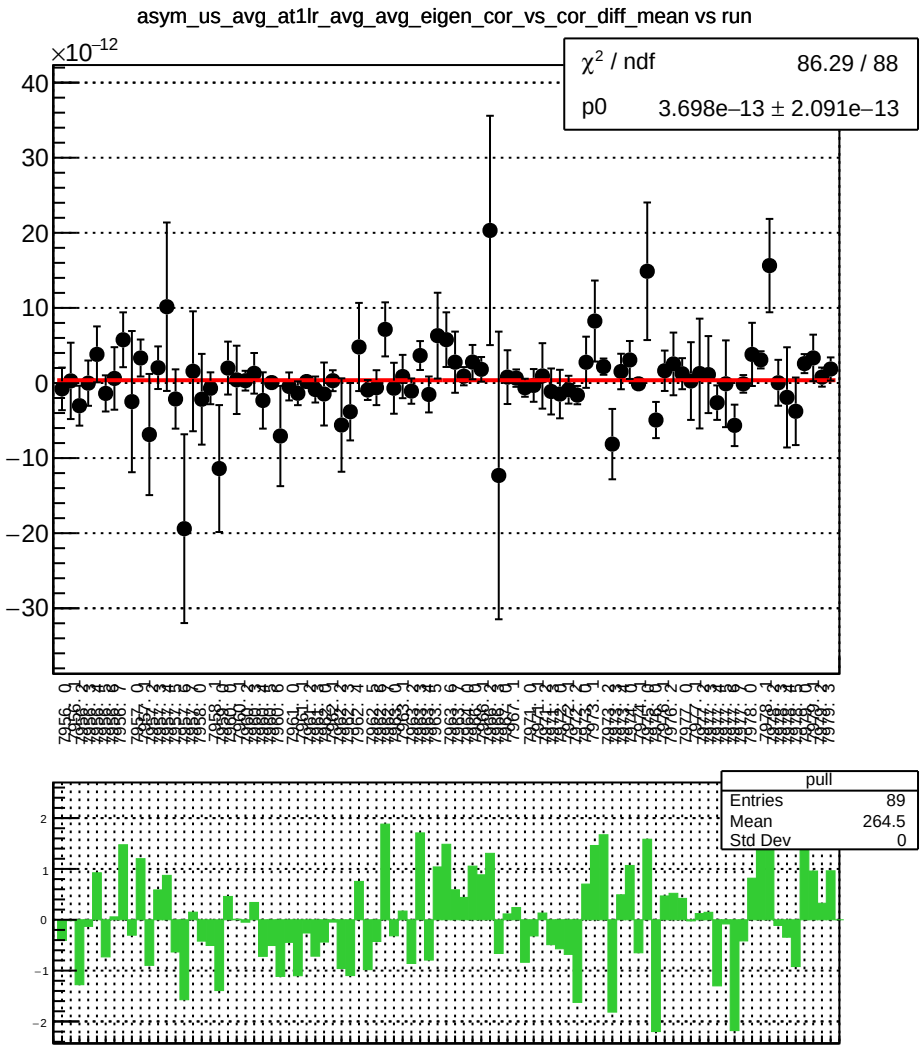

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.8 / 88
p0 −0.3193 ± 0.1727
30
20
10
0
−10
pull
Entries 89
Mean −12.64
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

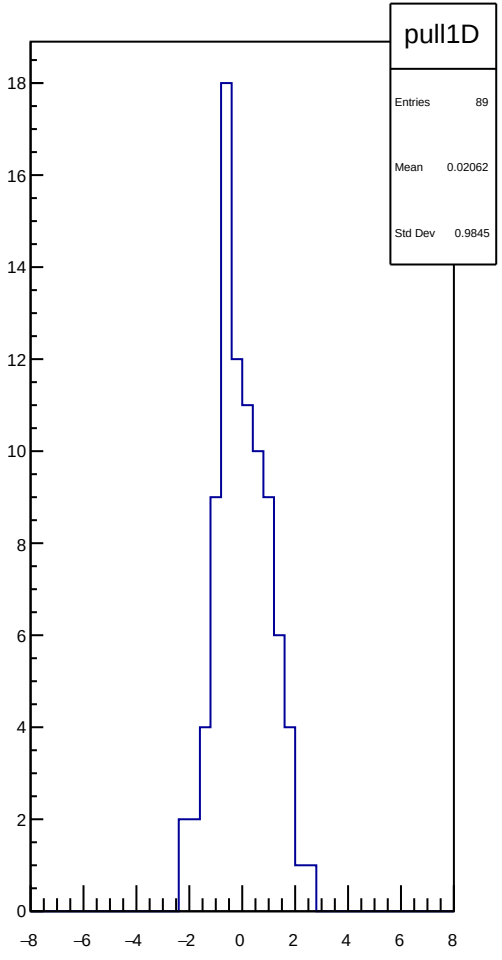

pull1D
Entries 89
Mean 0.06218
Std Dev 0.896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

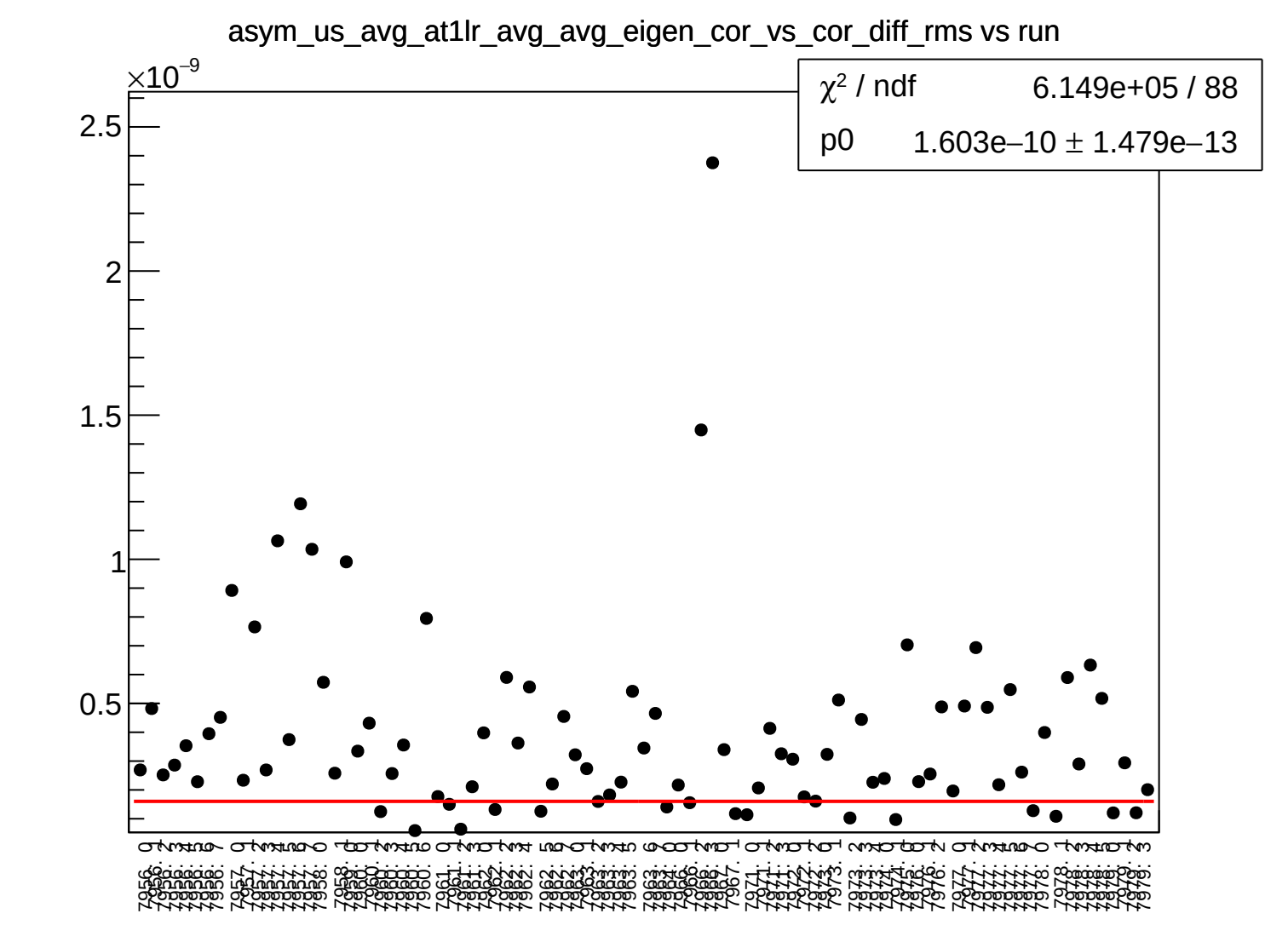

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.113e+05 / 88
p0 143.5 ± 0.1221
1000
800
600
400
200

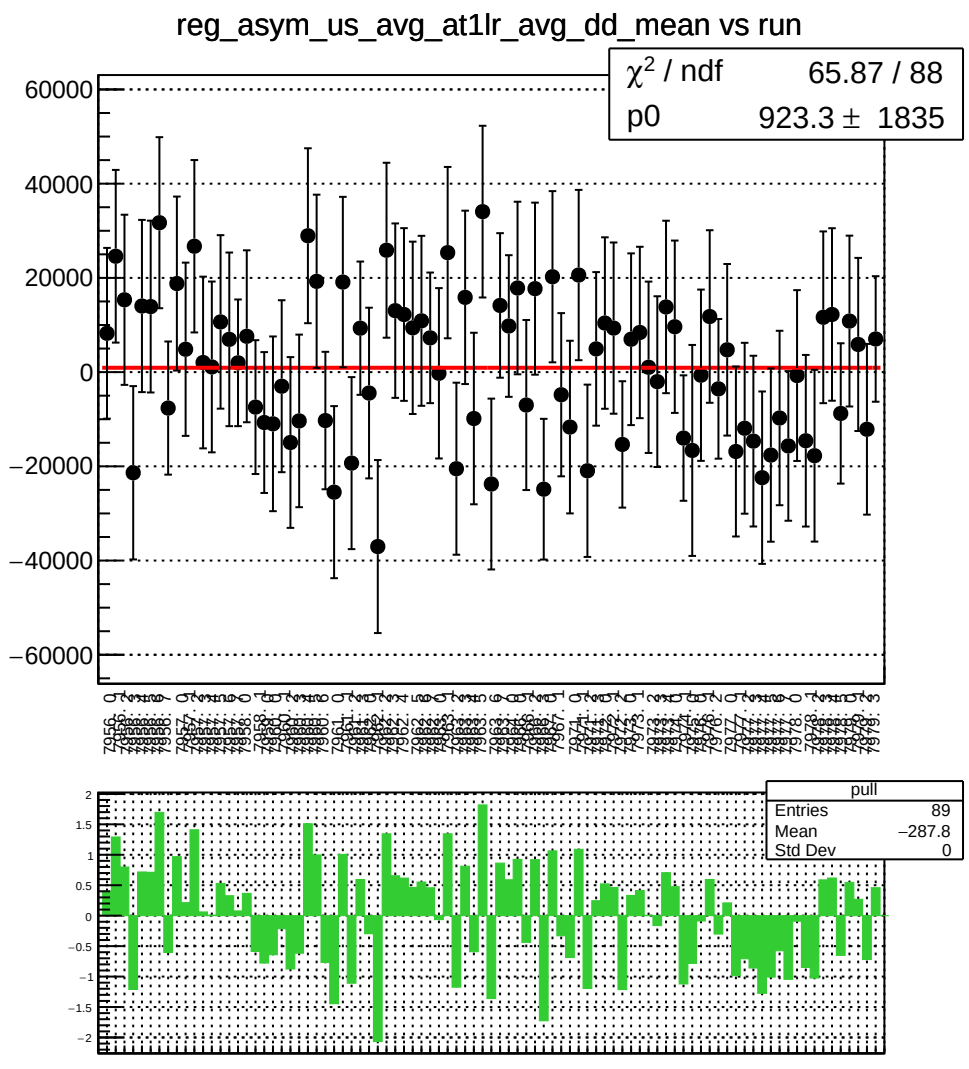

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.8 / 88
p0 −0.3193 ± 0.1727
30
20
10
0
−10
pull
Entries 89
Mean −12.64
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.06218
Std Dev 0.896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

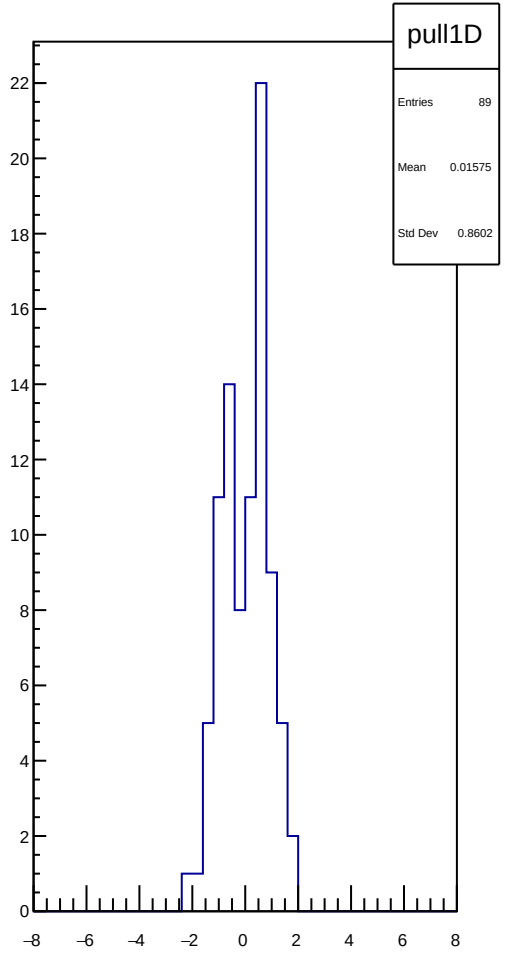

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.113e+05 / 88
p0 143.5 ± 0.1221
1000
800
600
400
200

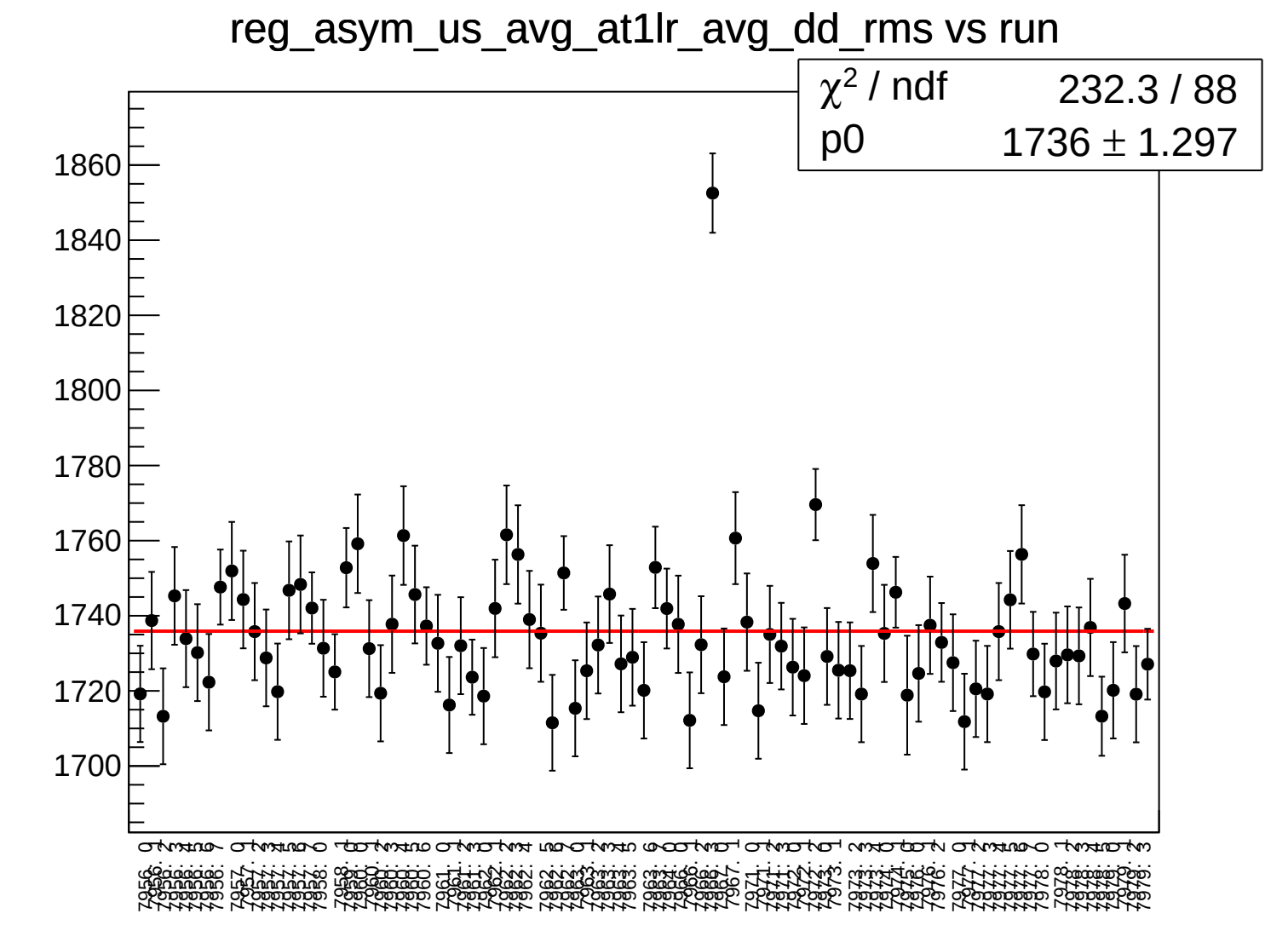

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.29 / 88
p0 3.698e−13 ± 2.091e−13
pull
Entries 89
Mean 264.5
Std Dev 0

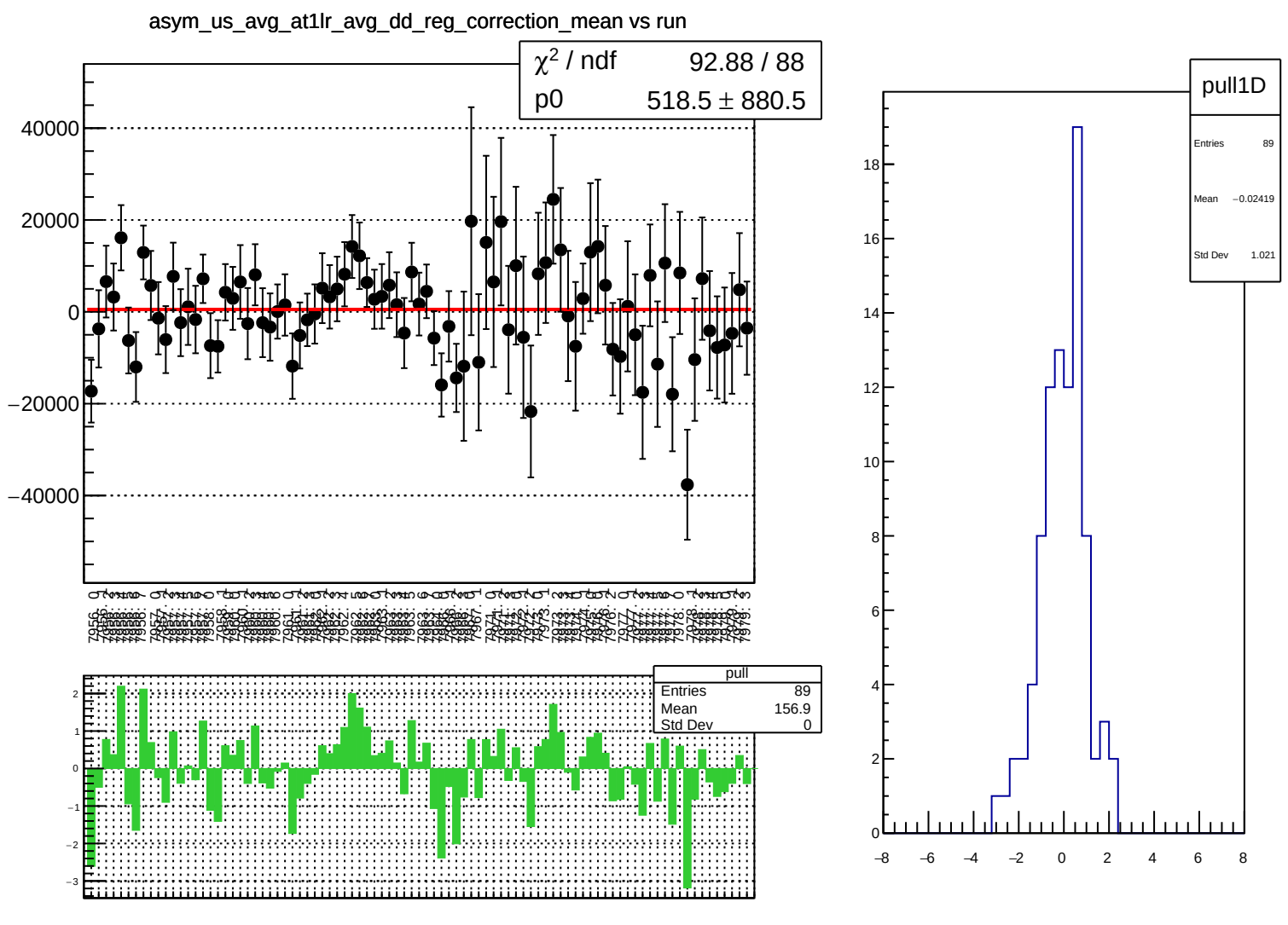

pull1D
Entries 89
Mean 0.02062
Std Dev 0.9845

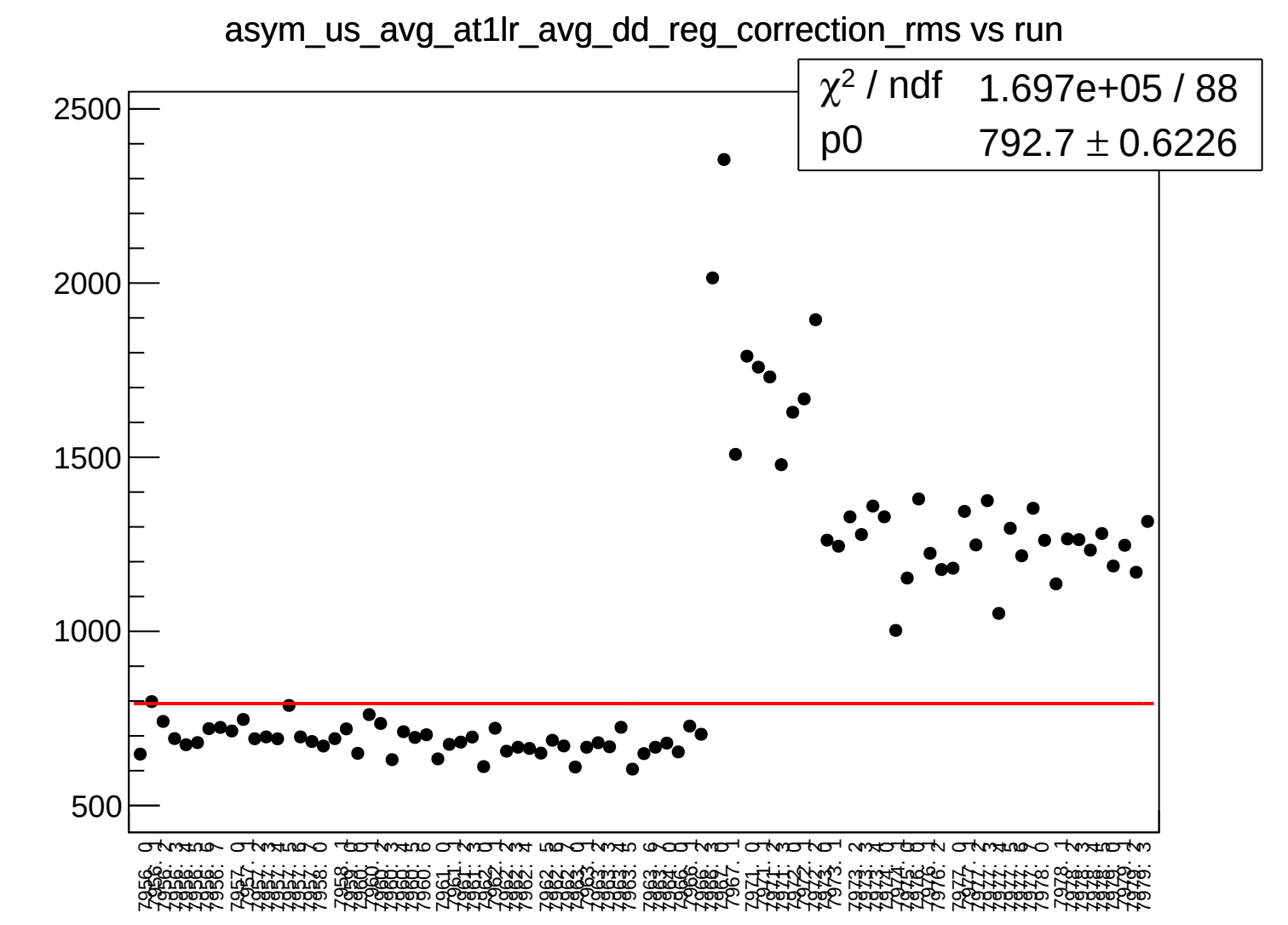

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 6.149e+05 / 88
p0 1.603e−10 ± 1.479e−13

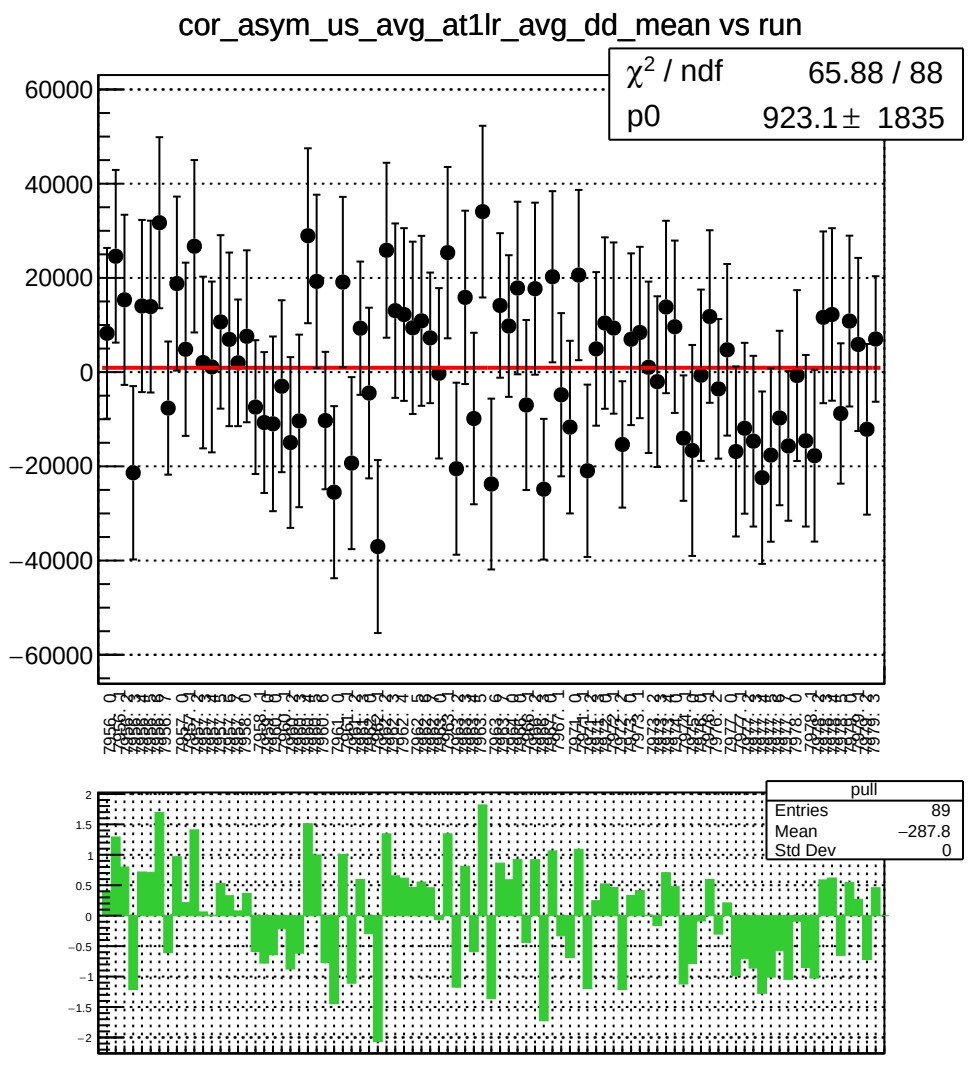

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 65.87 / 88
p0 923.3 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −287.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

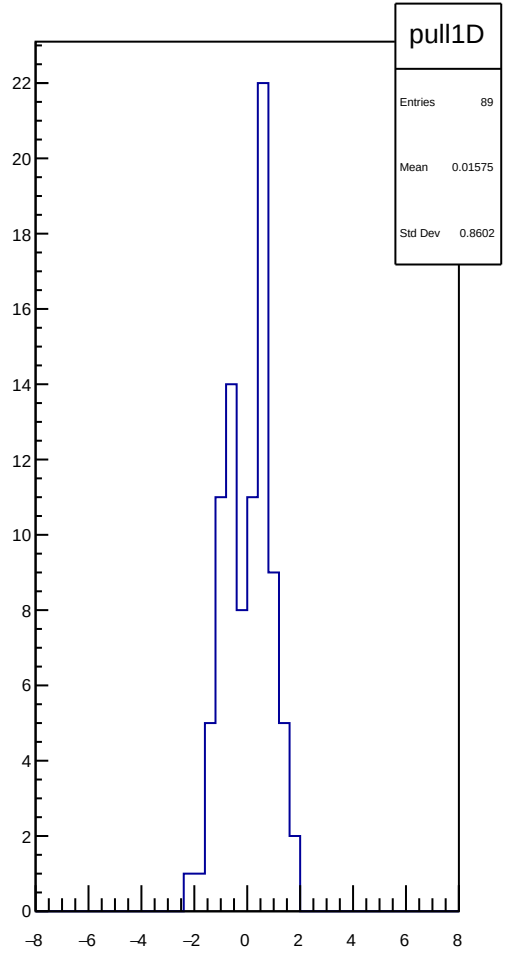

pull1D
Entries 89
Mean 0.01575
Std Dev 0.8602
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

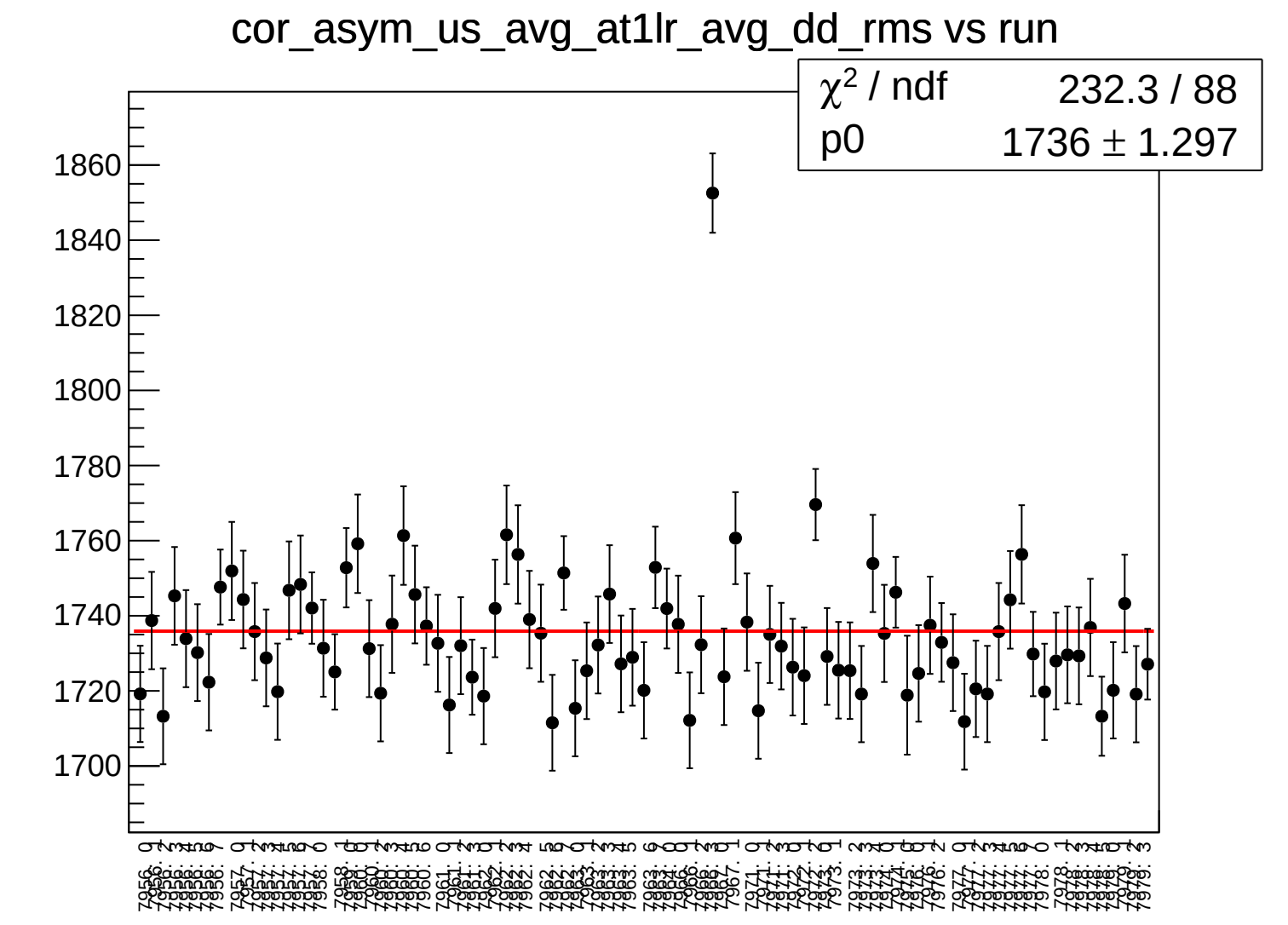

reg_asym_us_avg_at1lr_avg_dd_rms vs run
$\chi^2$ / ndf 232.3 / 88
p0 1736 ± 1.297
1860
1840
1820
1800
1780
1760
1740
1720
1700

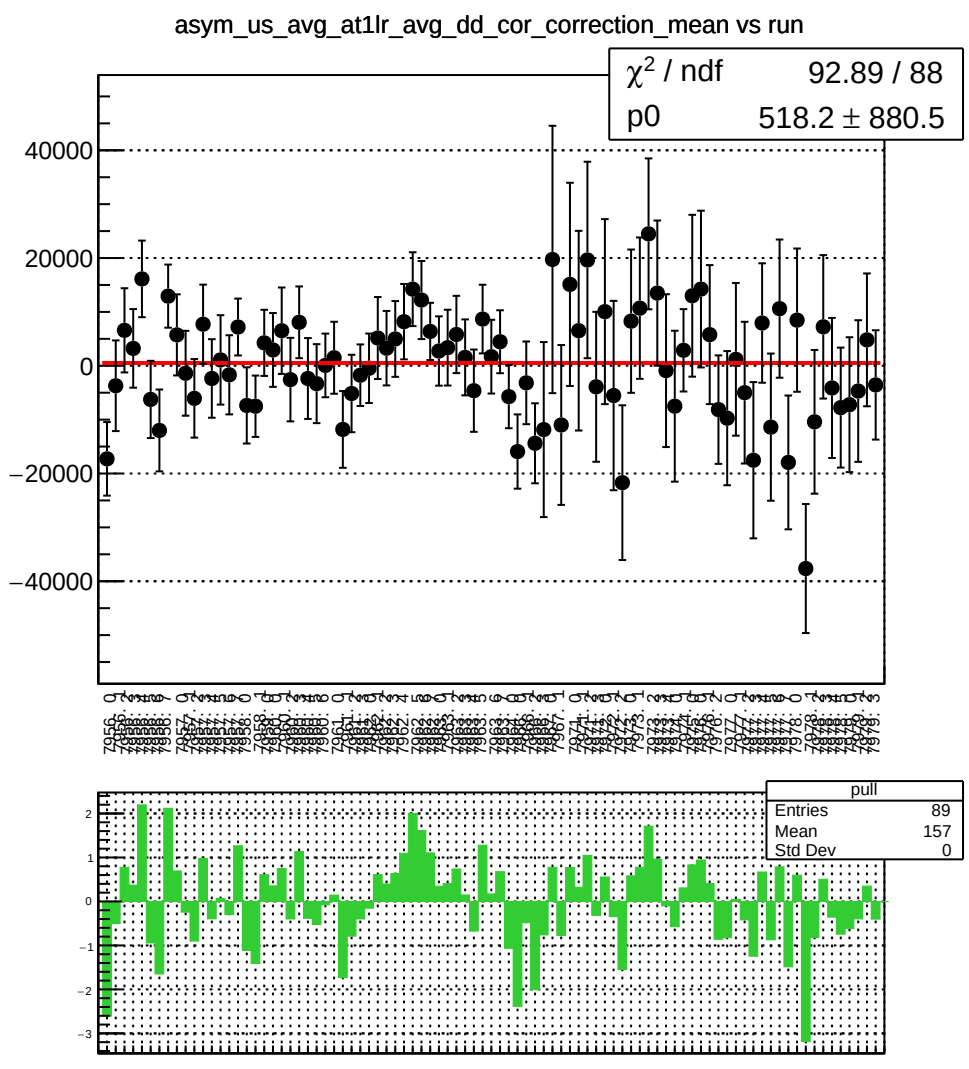

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 92.88 / 88
p0 518.5 ± 880.5
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 156.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.02419
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

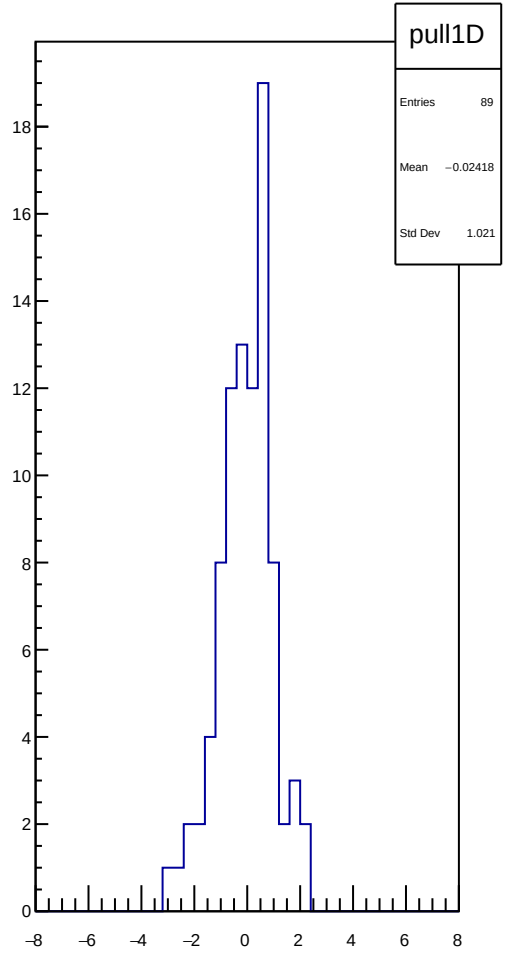

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.697e+05 / 88
p0 792.7 ± 0.6226
2500
2000
1500
1000
500

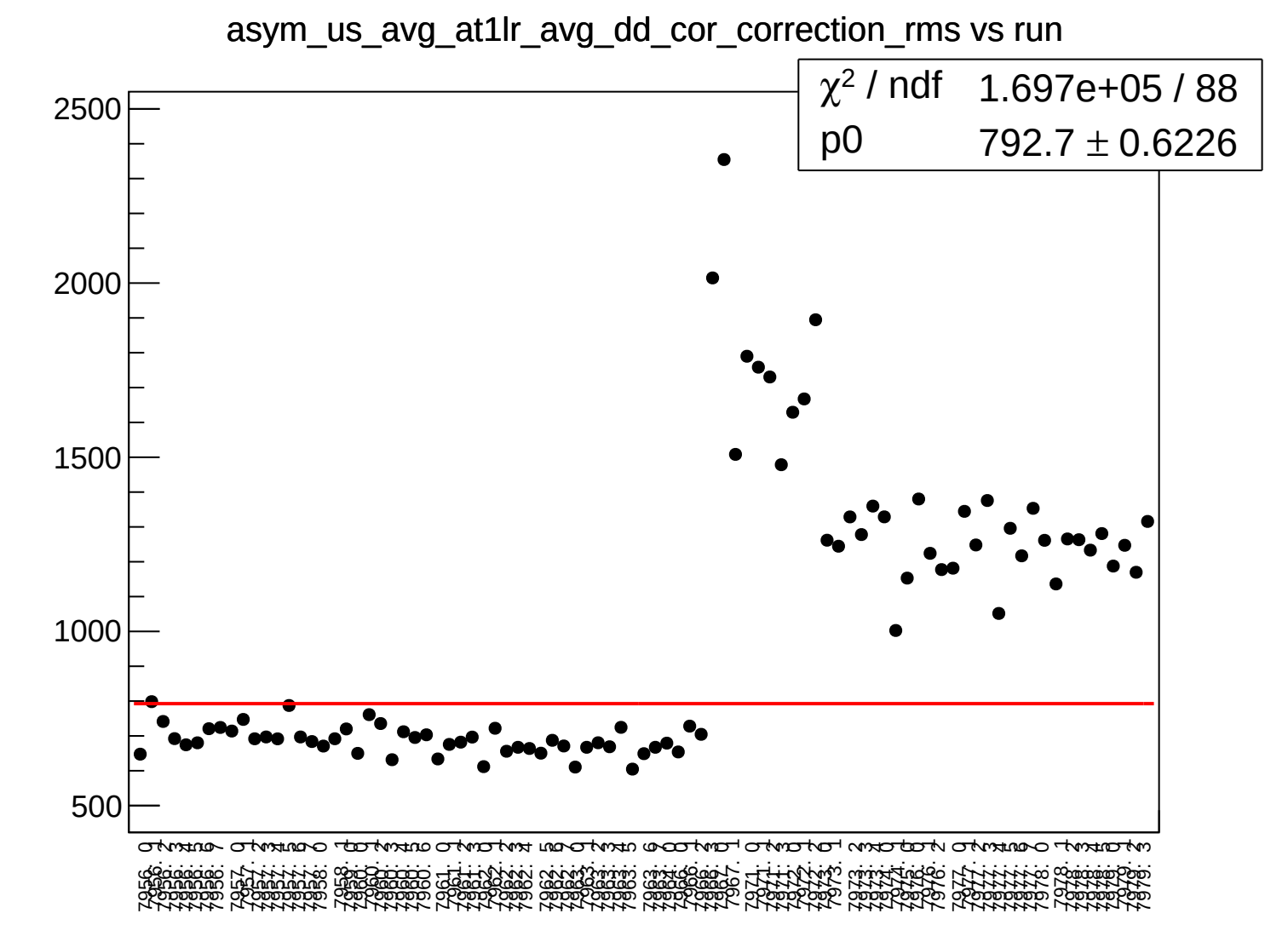

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 65.88 / 88
p0 923.1 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −287.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

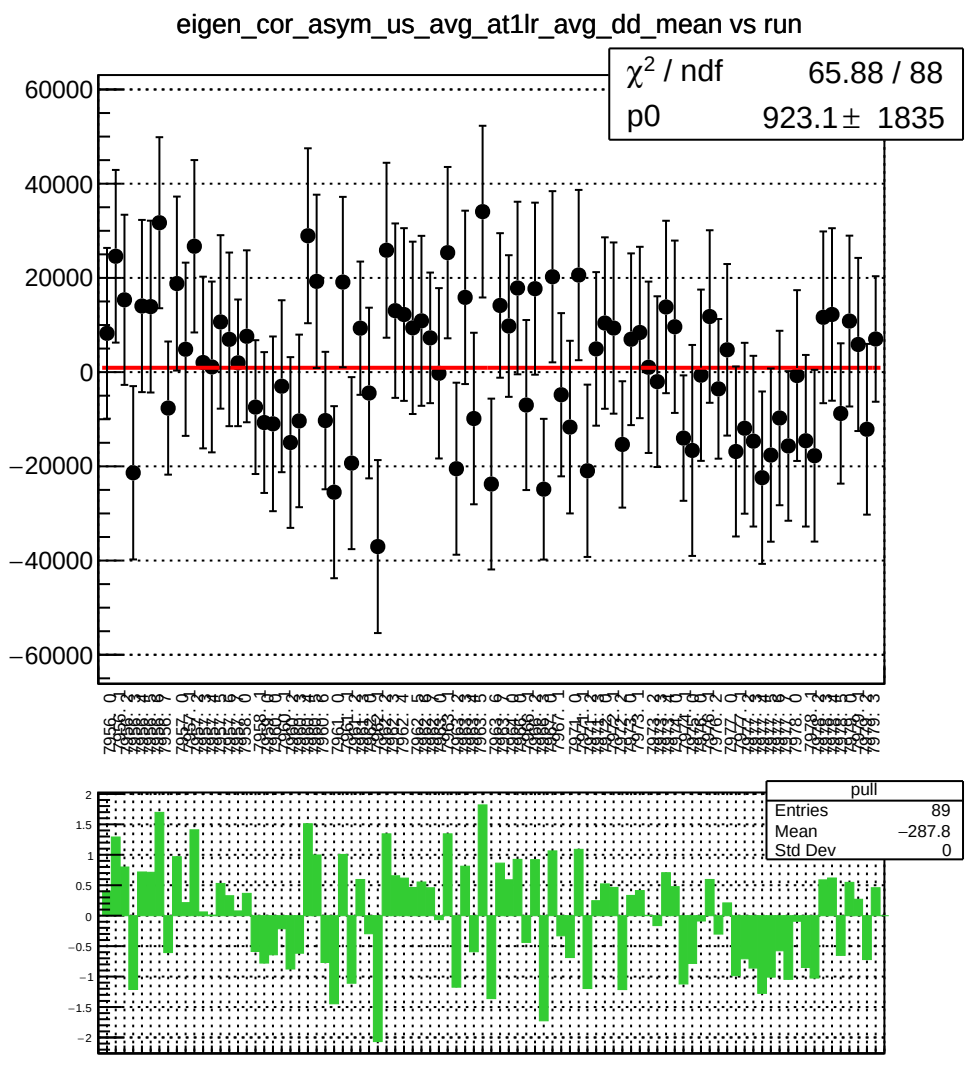

pull1D
Entries 89
Mean 0.01575
Std Dev 0.8602
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

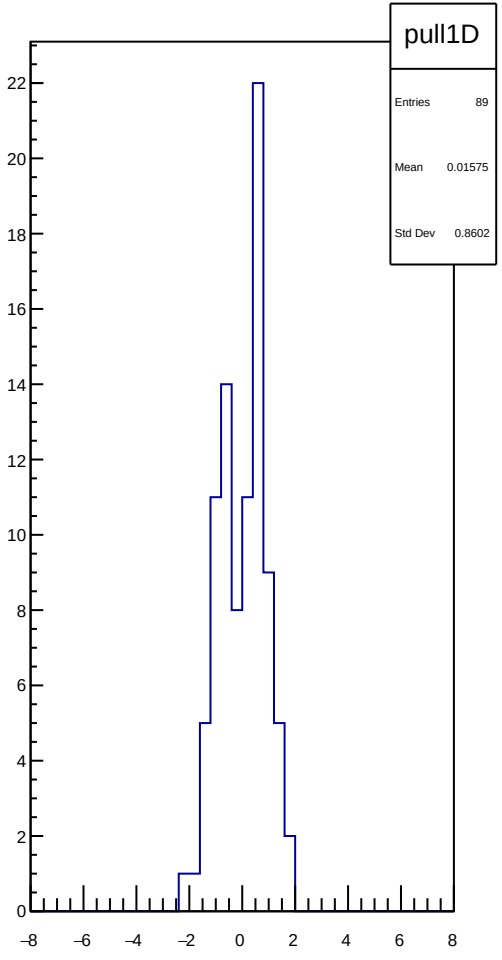

cor_asym_us_avg_at1lr_avg_dd_rms vs run
$\chi^2$ / ndf 232.3 / 88
p0 1736 ± 1.297
1860
1840
1820
1800
1780
1760
1740
1720
1700

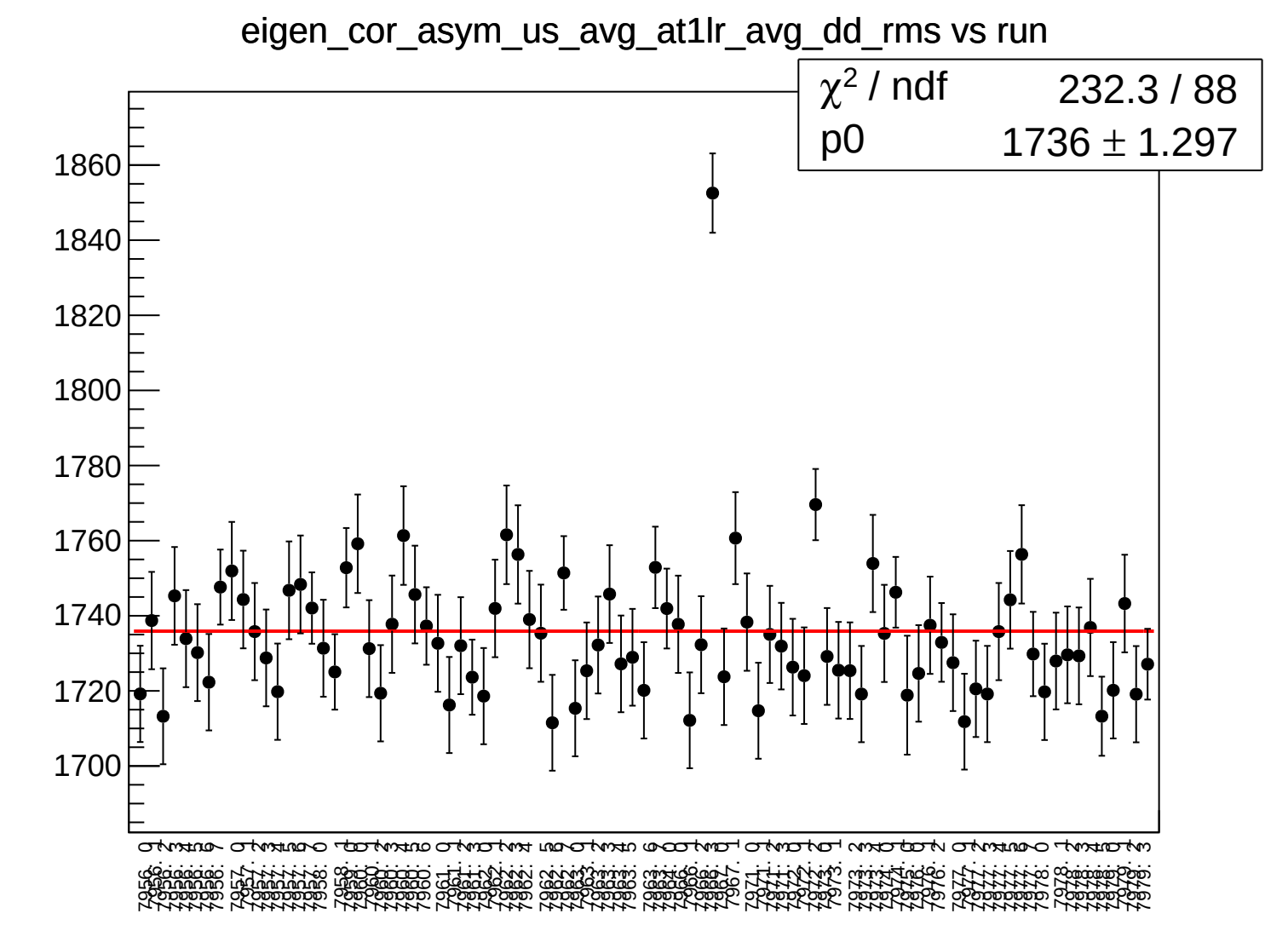

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 92.89 / 88
p0 518.2 ± 880.5
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 157
Std Dev 0
2
1
0
−1
−2
−3

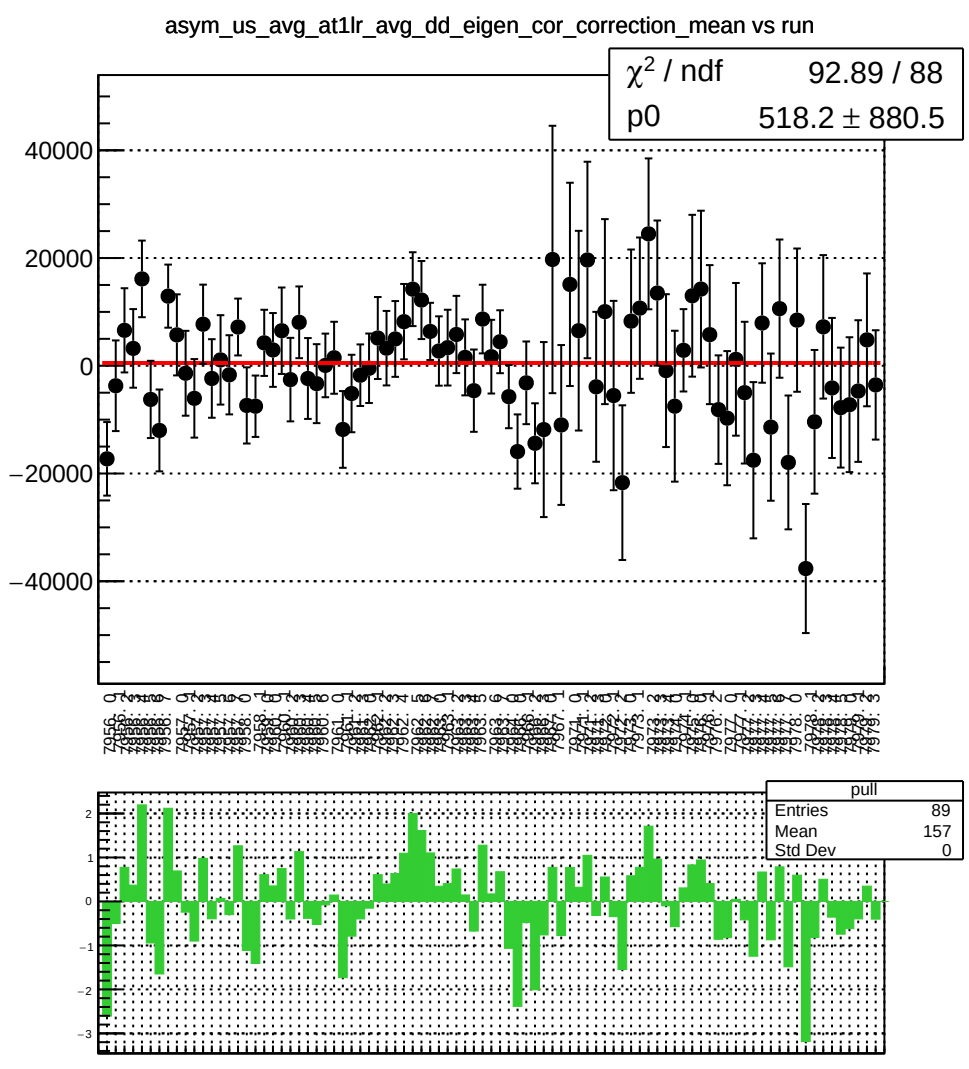

pull1D
Entries 89
Mean −0.02418
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

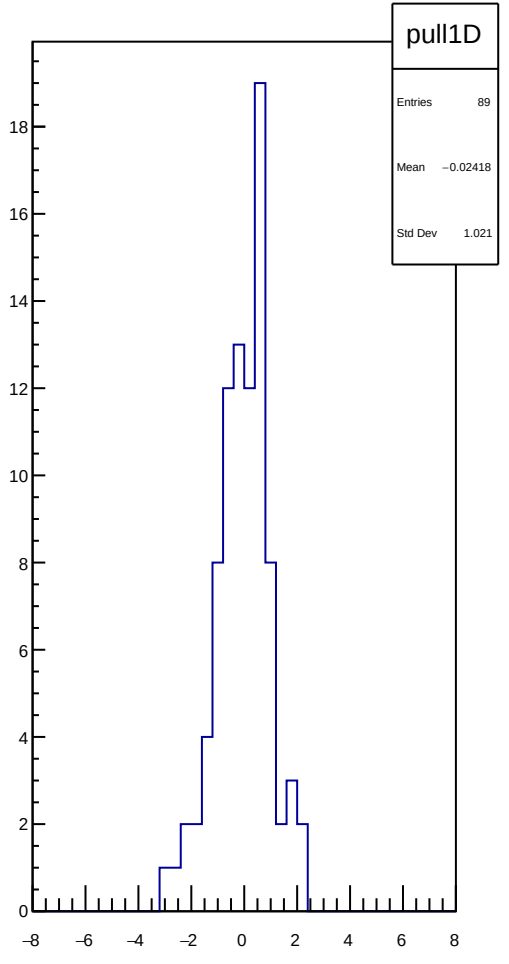

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.697e+05 / 88
p0 792.7 ± 0.6226
2500
2000
1500
1000
500

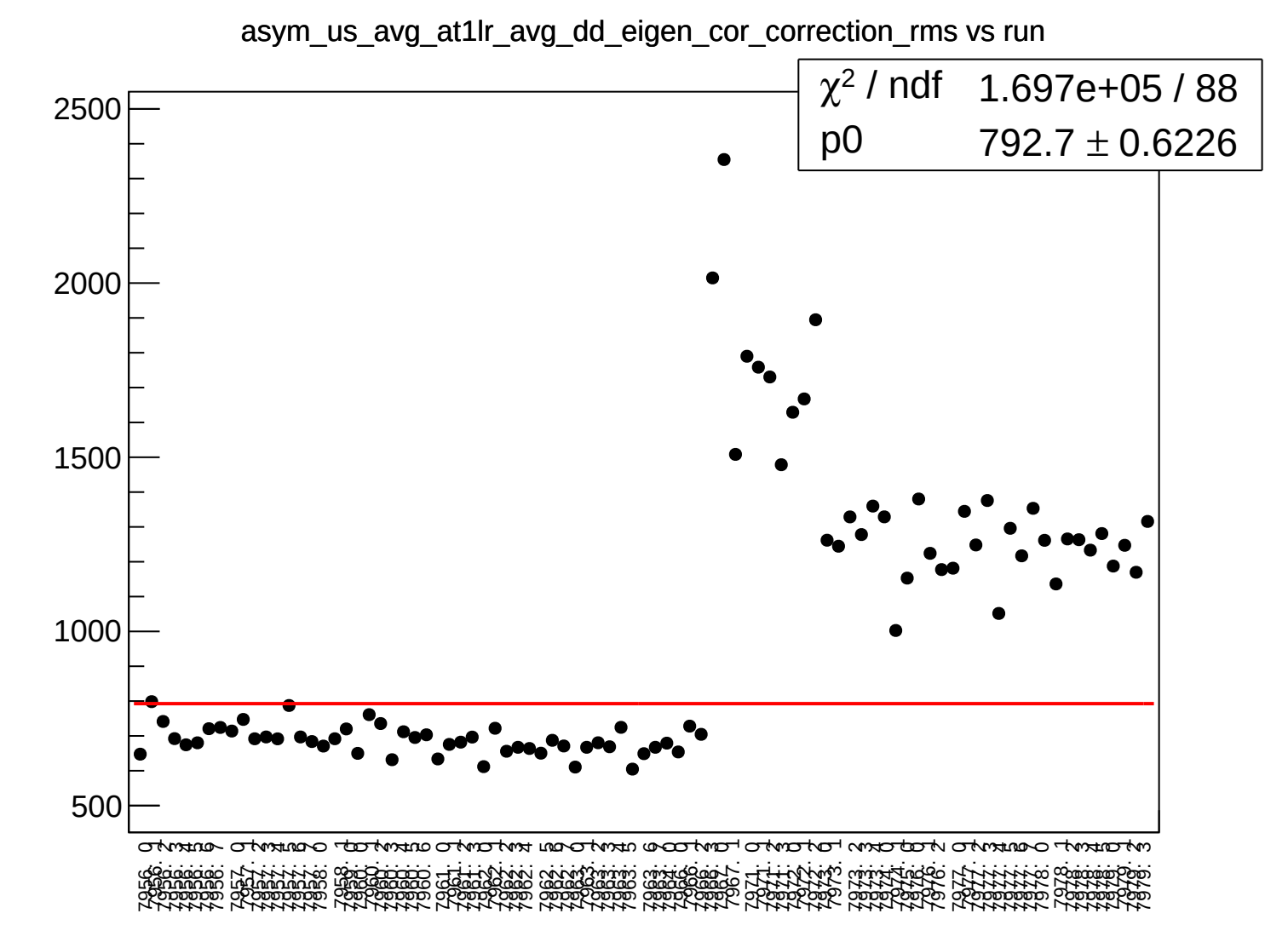

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 65.88 / 88
p0 923.1 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −287.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

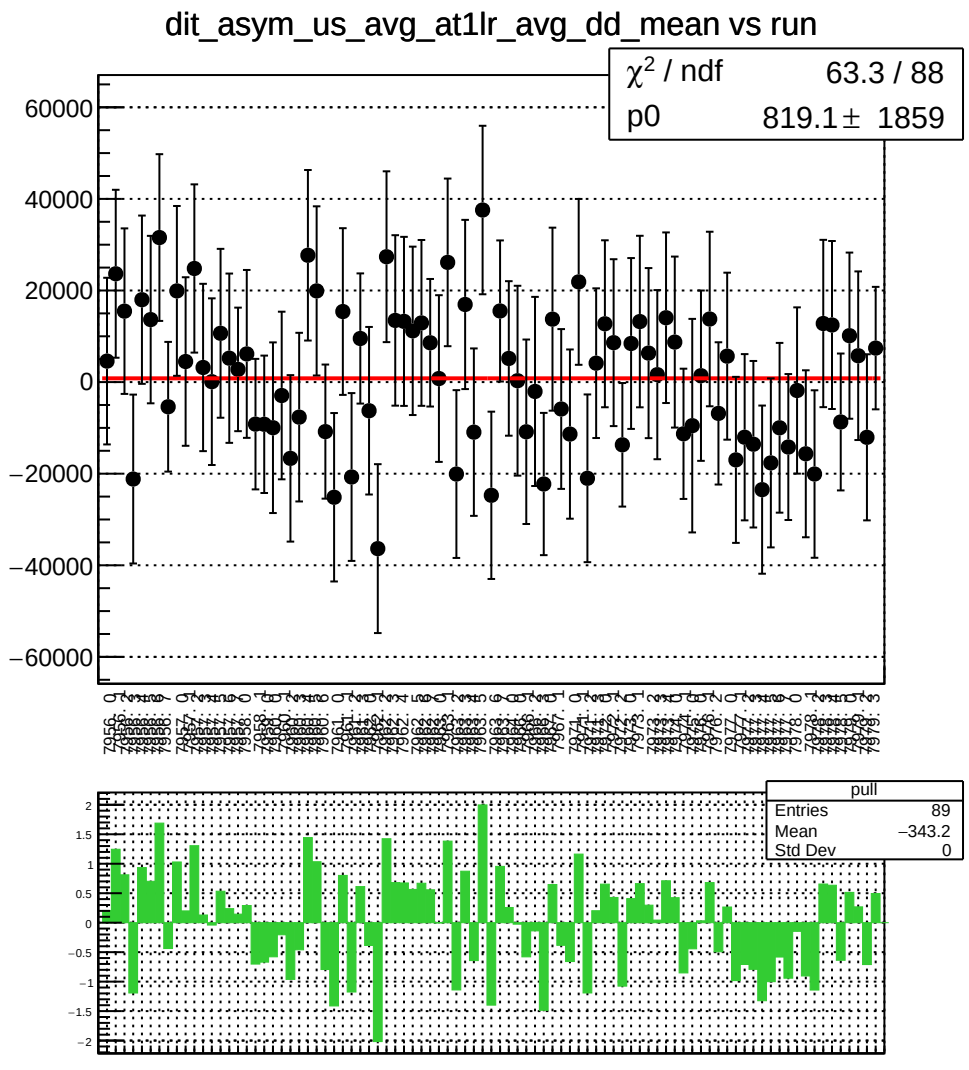

pull1D
Entries 89
Mean 0.01575
Std Dev 0.8602
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

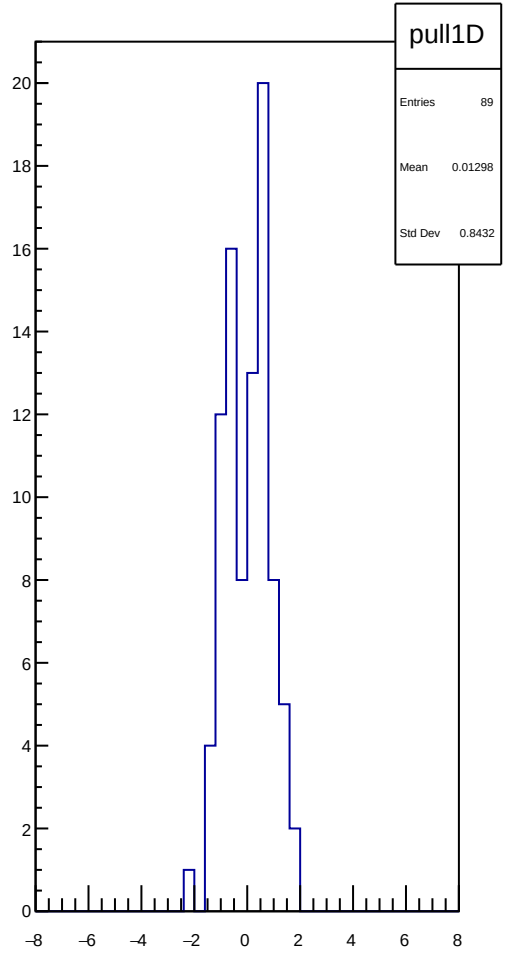

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 232.3 / 88
p0 1736 ± 1.297
1860
1840
1820
1800
1780
1760
1740
1720
1700

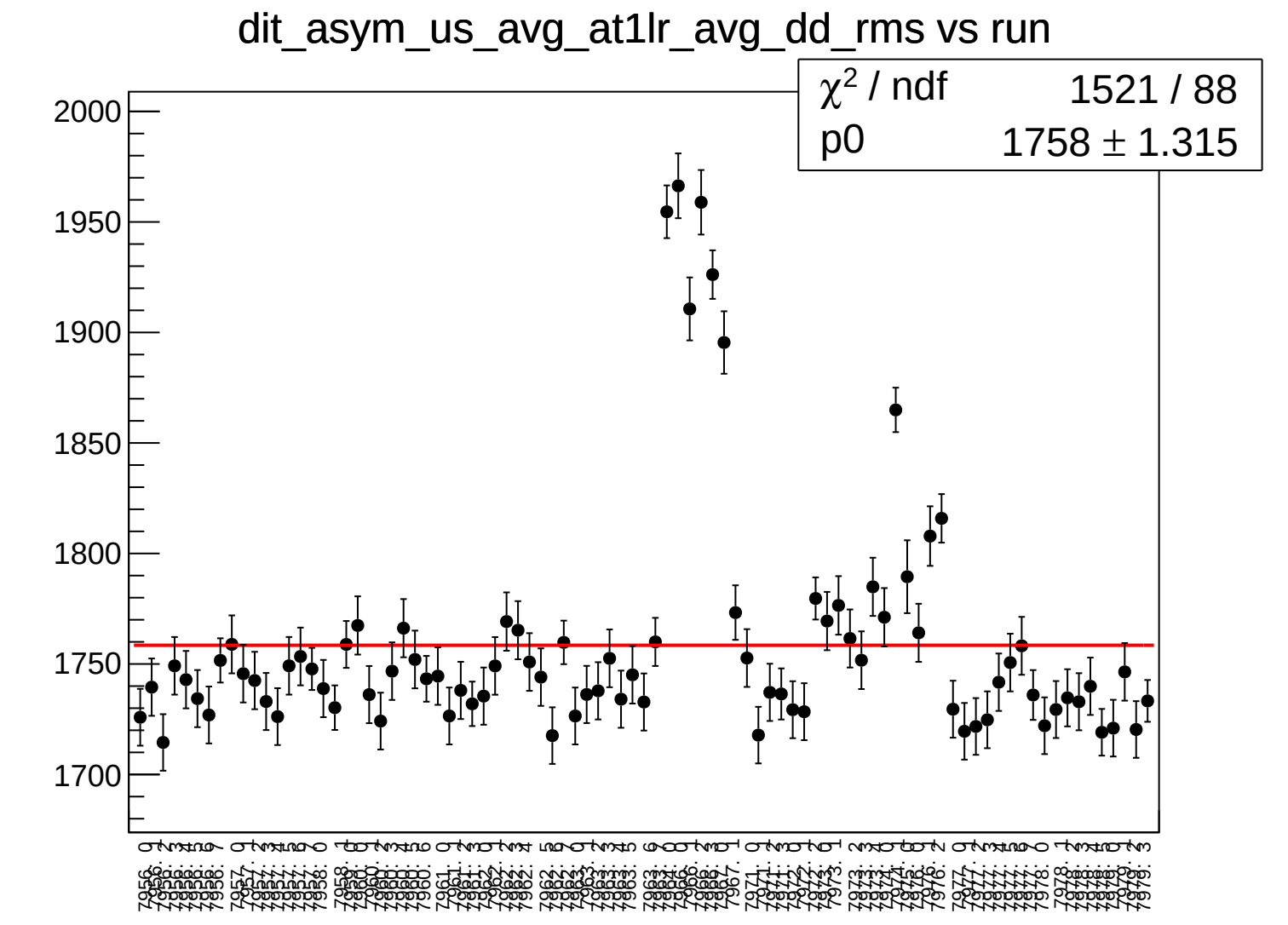

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.89 / 88
p0 518.2 ± 880.5
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 157
Std Dev 0
2
1
0
−1
−2
−3

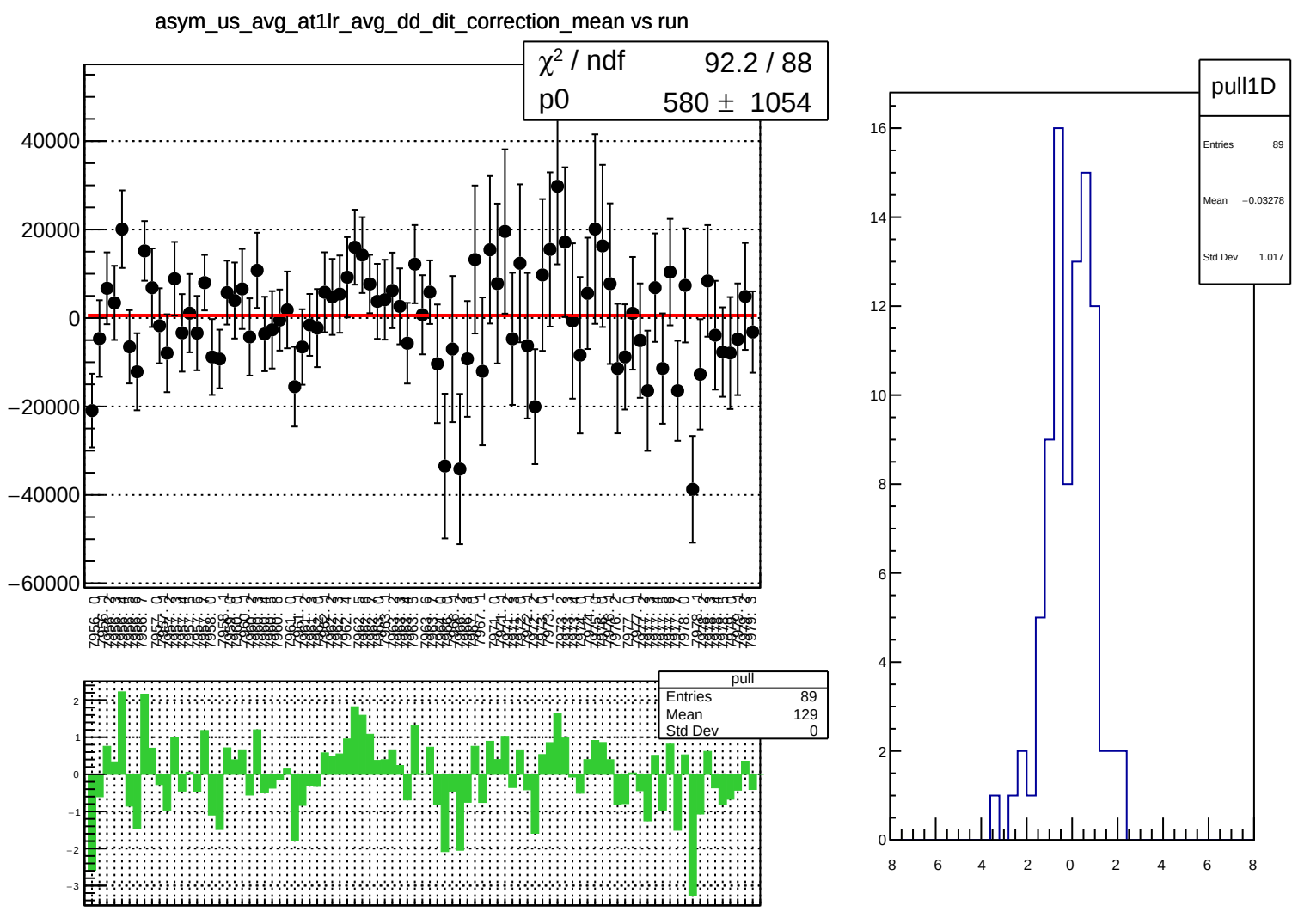

pull1D
Entries 89
Mean −0.02418
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

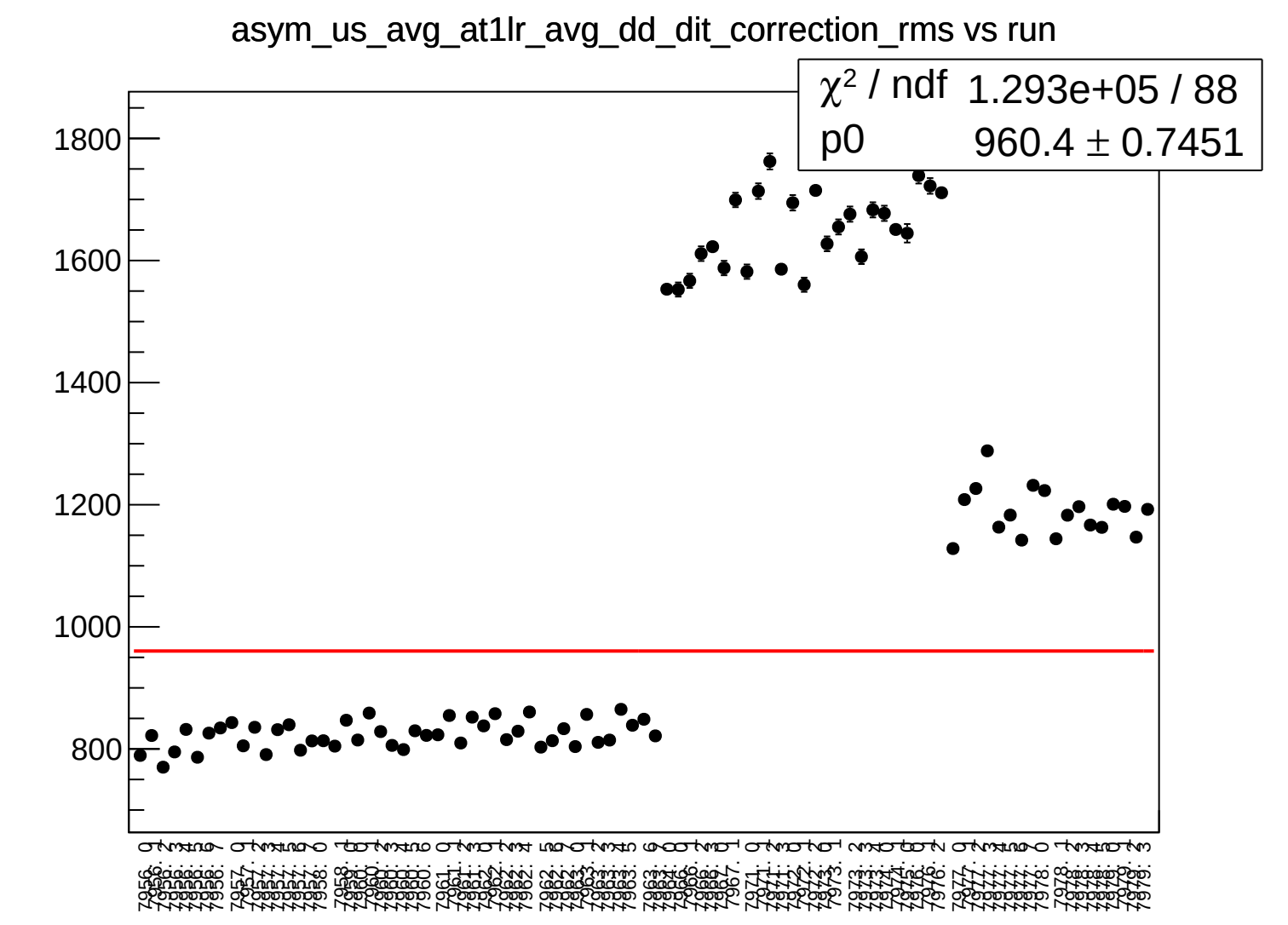

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.697e+05 / 88
p0 792.7 ± 0.6226
2500
2000
1500
1000
500

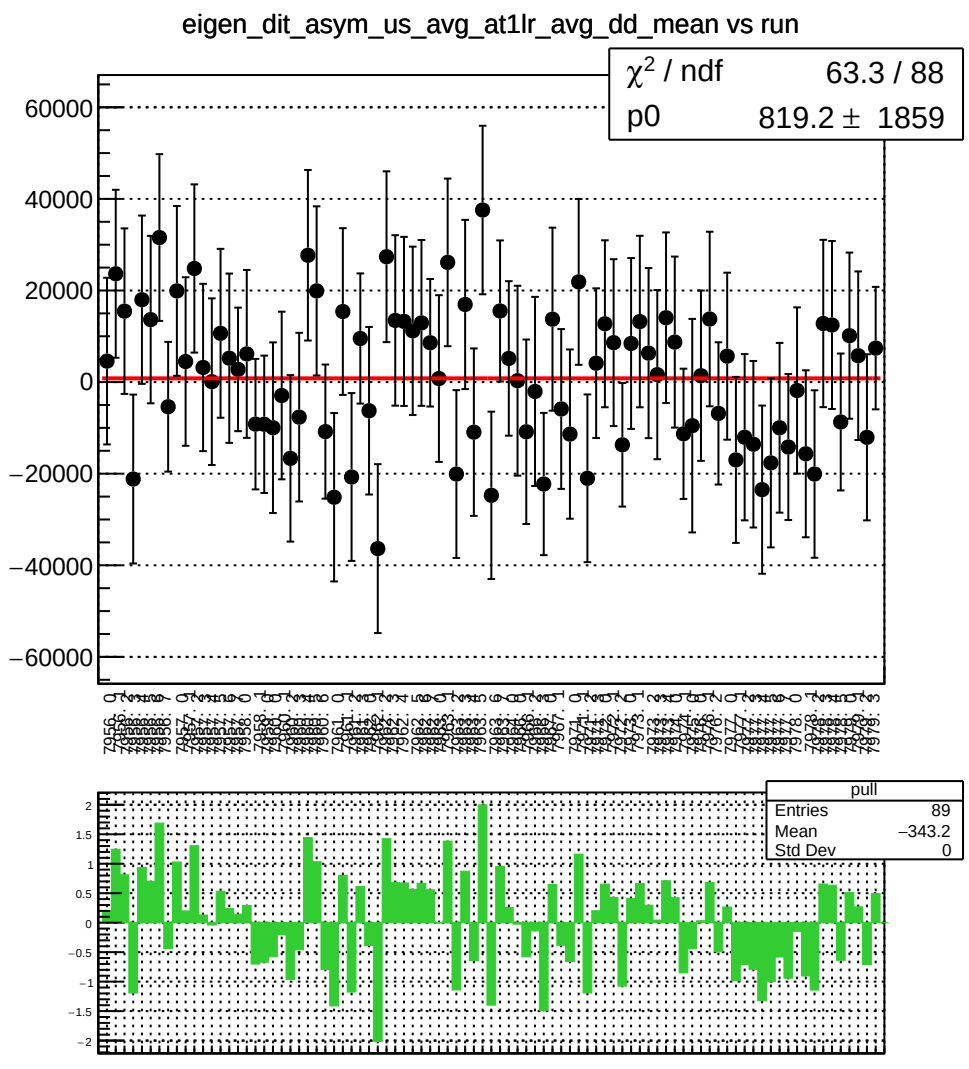

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 63.3 / 88
p0 819.1 ± 1859
pull
Entries 89
Mean −343.2
Std Dev 0

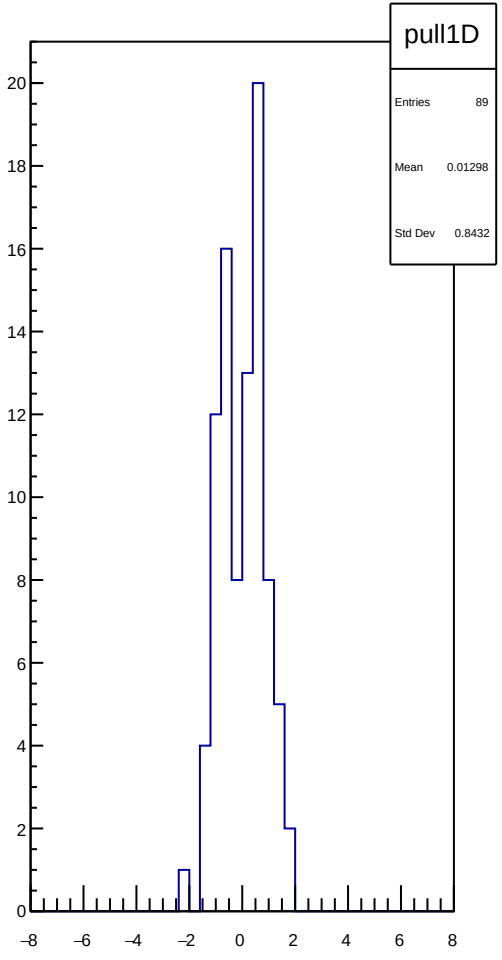

pull1D
Entries 89
Mean 0.01298
Std Dev 0.8432

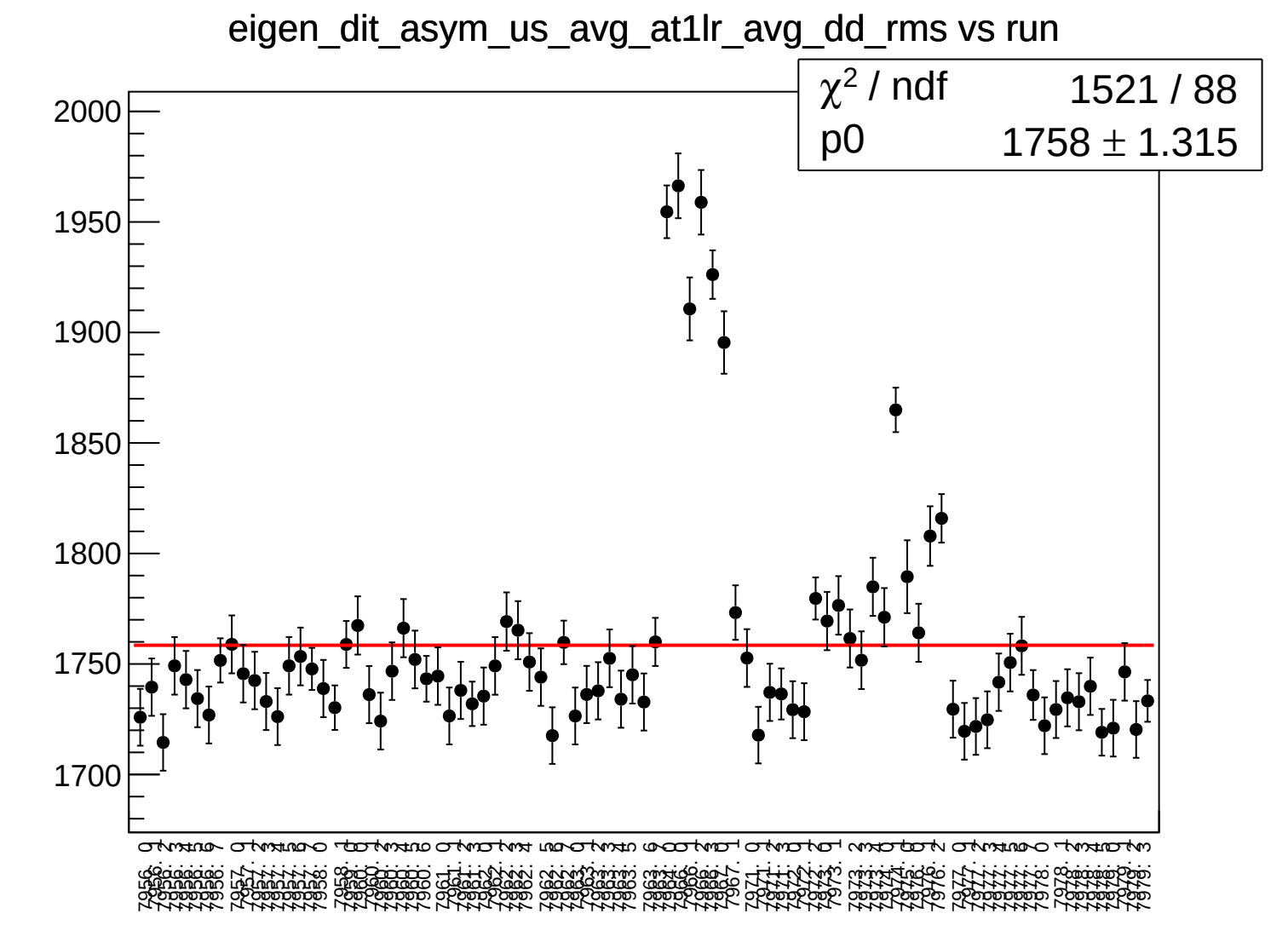

dit_asym_us_avg_at1lr_avg_dd_rms vs run
$\chi^2$ / ndf 1521 / 88
p0 1758 ± 1.315
2000
1950
1900
1850
1800
1750
1700

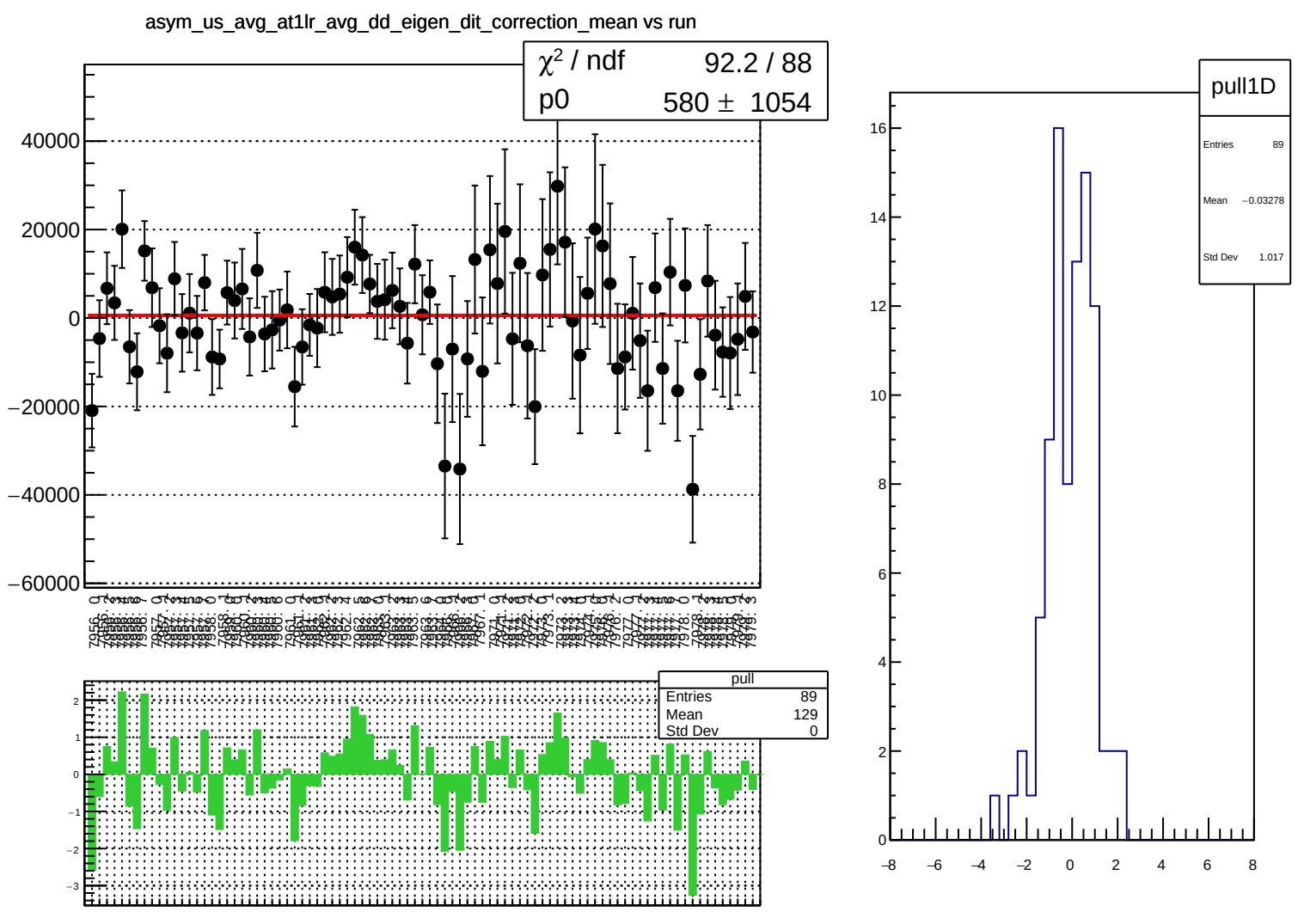

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 92.2 / 88
p0 580 ± 1054
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 129
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.03278
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

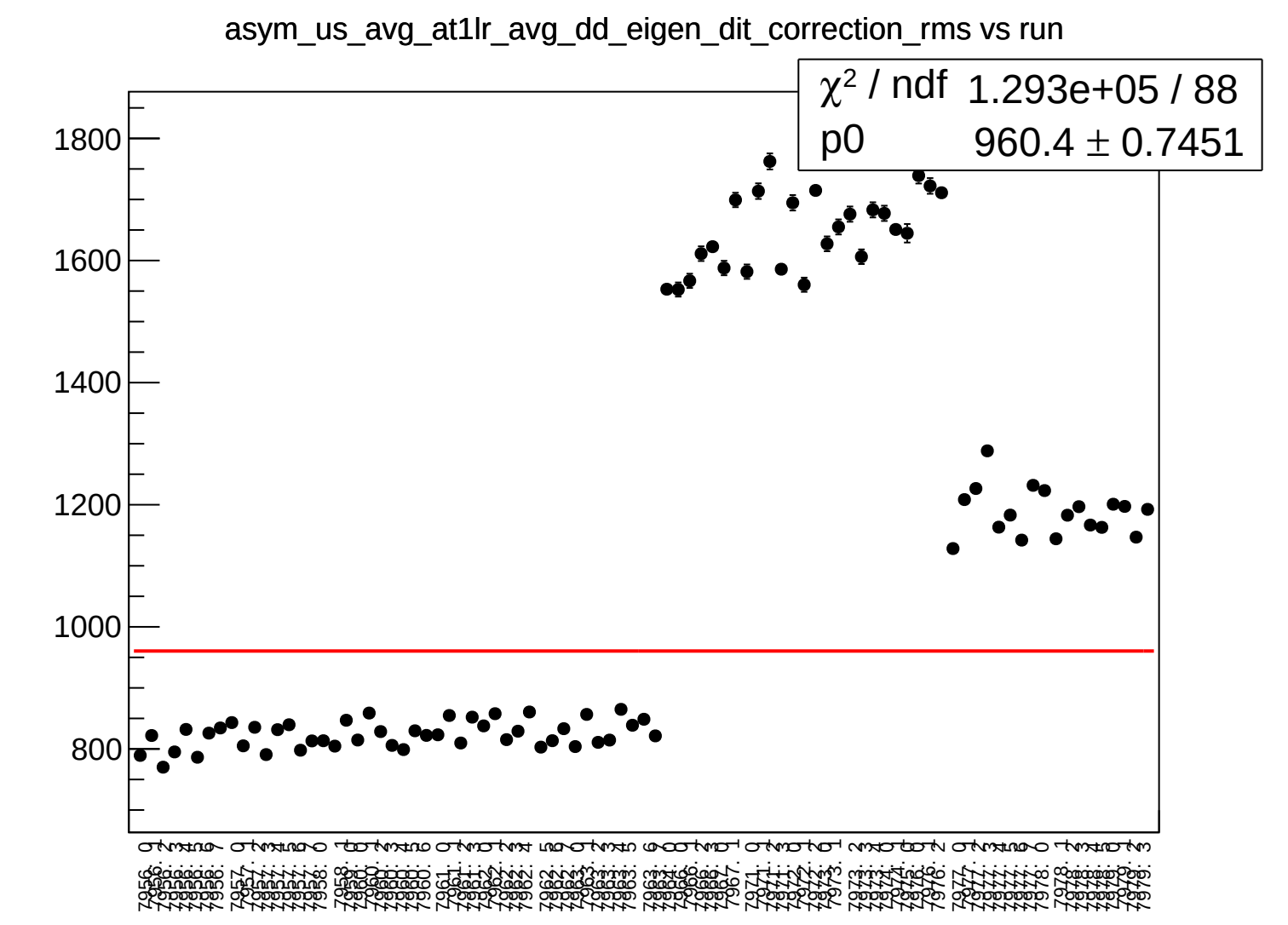

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.293e+05 / 88
p0 960.4 ± 0.7451
1800
1600
1400
1200
1000
800

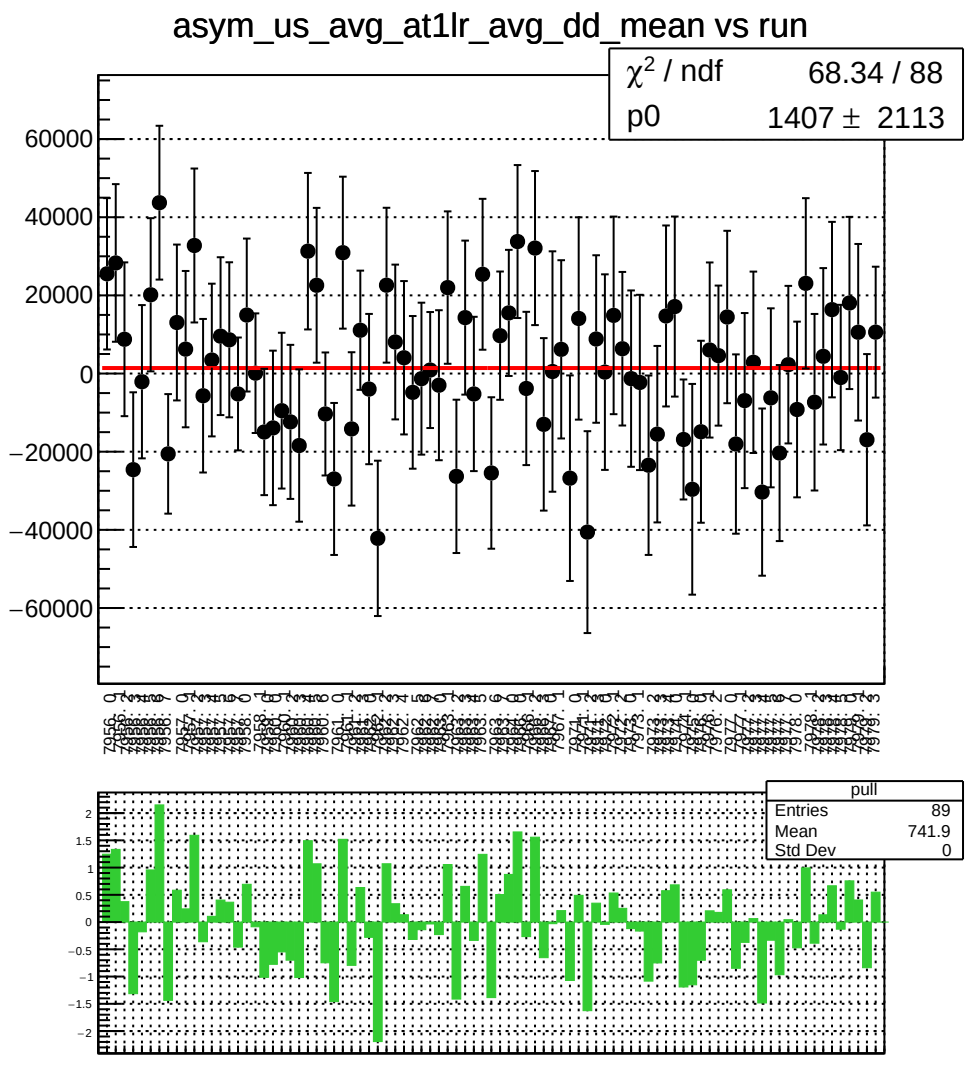

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 63.3 / 88
p0 819.2 ± 1859
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −343.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

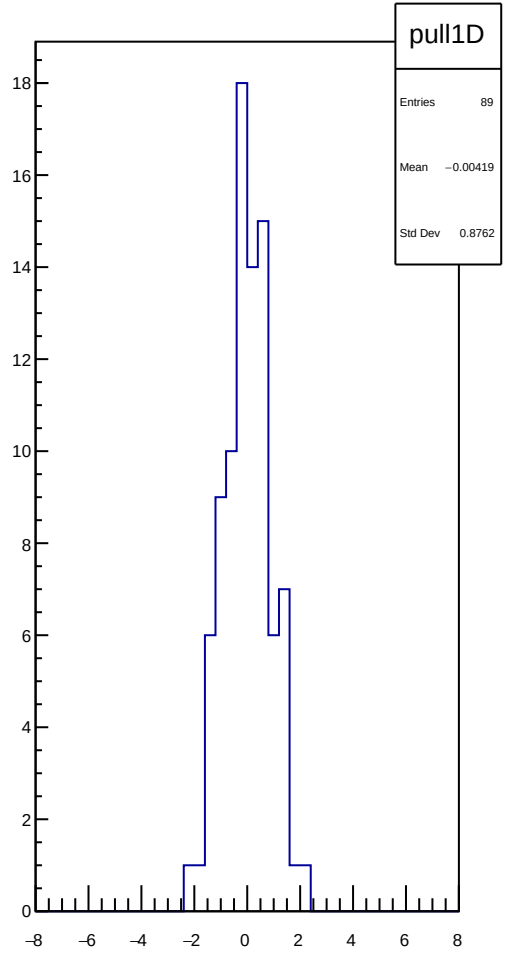

pull1D
Entries 89
Mean 0.01298
Std Dev 0.8432
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

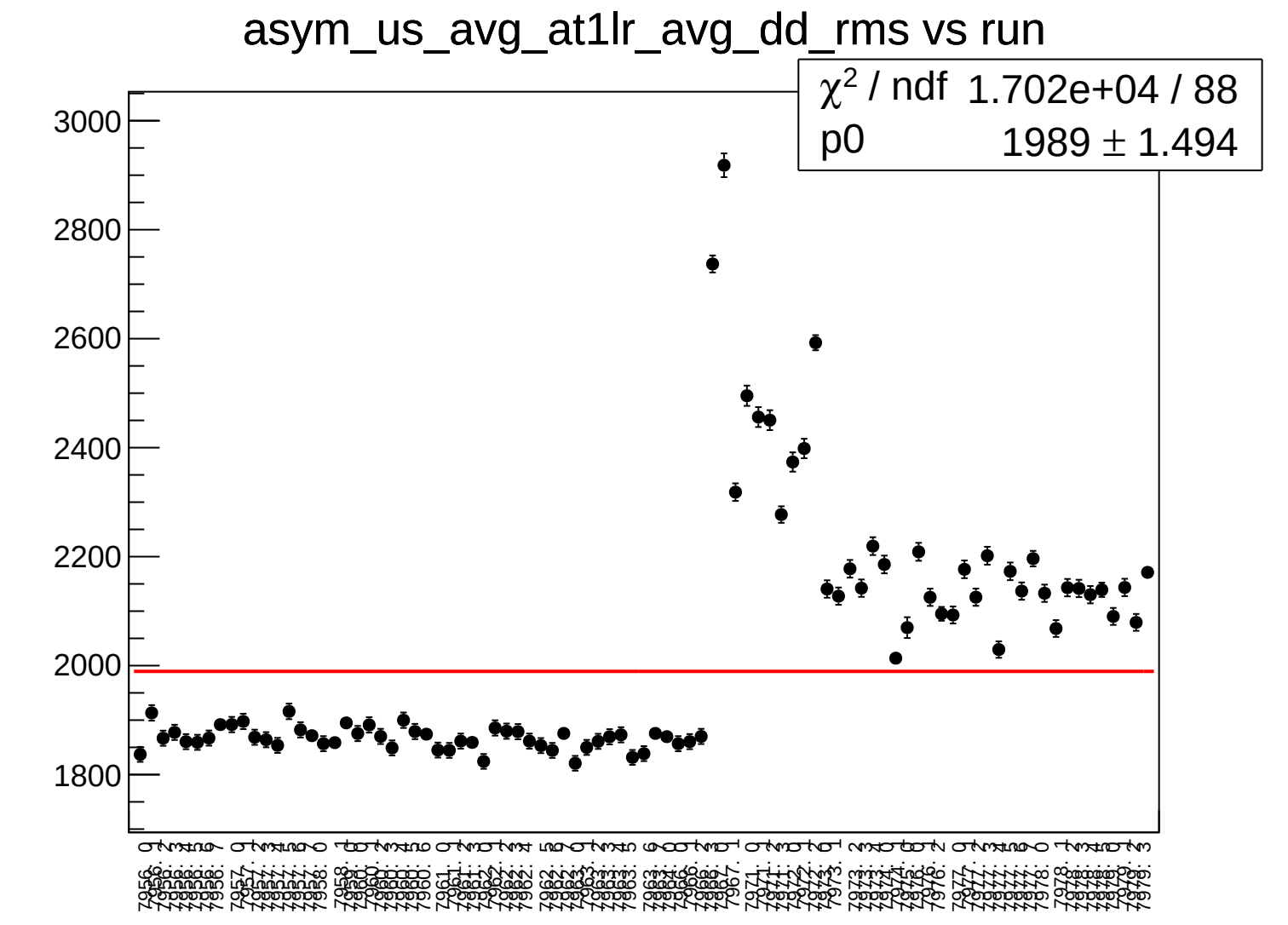

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
$\chi^2$ / ndf 1521 / 88
p0 1758 ± 1.315
2000
1950
1900
1850
1800
1750
1700

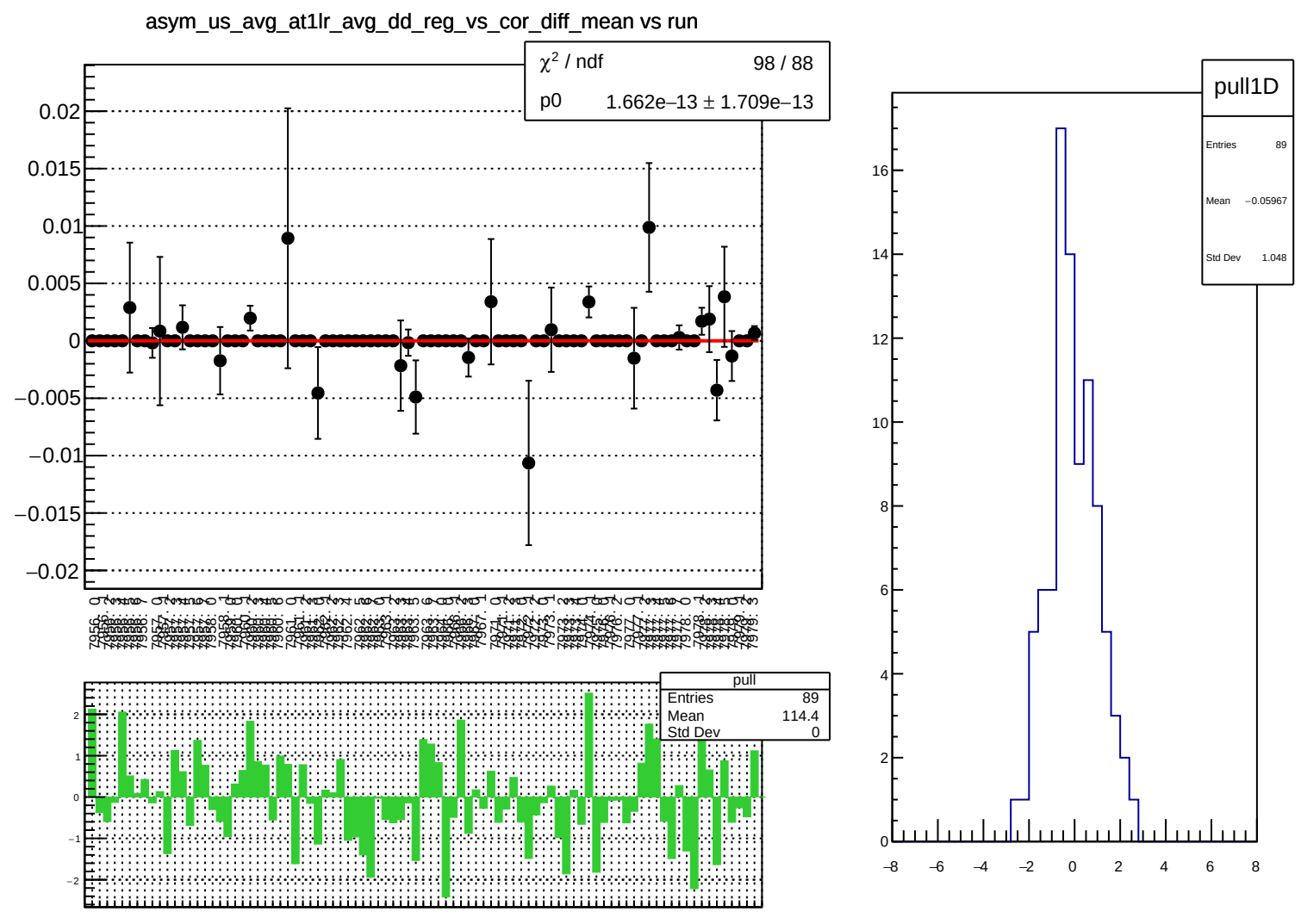

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.2 / 88
p0 580 ± 1054
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 129
Std Dev 0
pull1D
Entries 89
Mean −0.03278
Std Dev 1.017

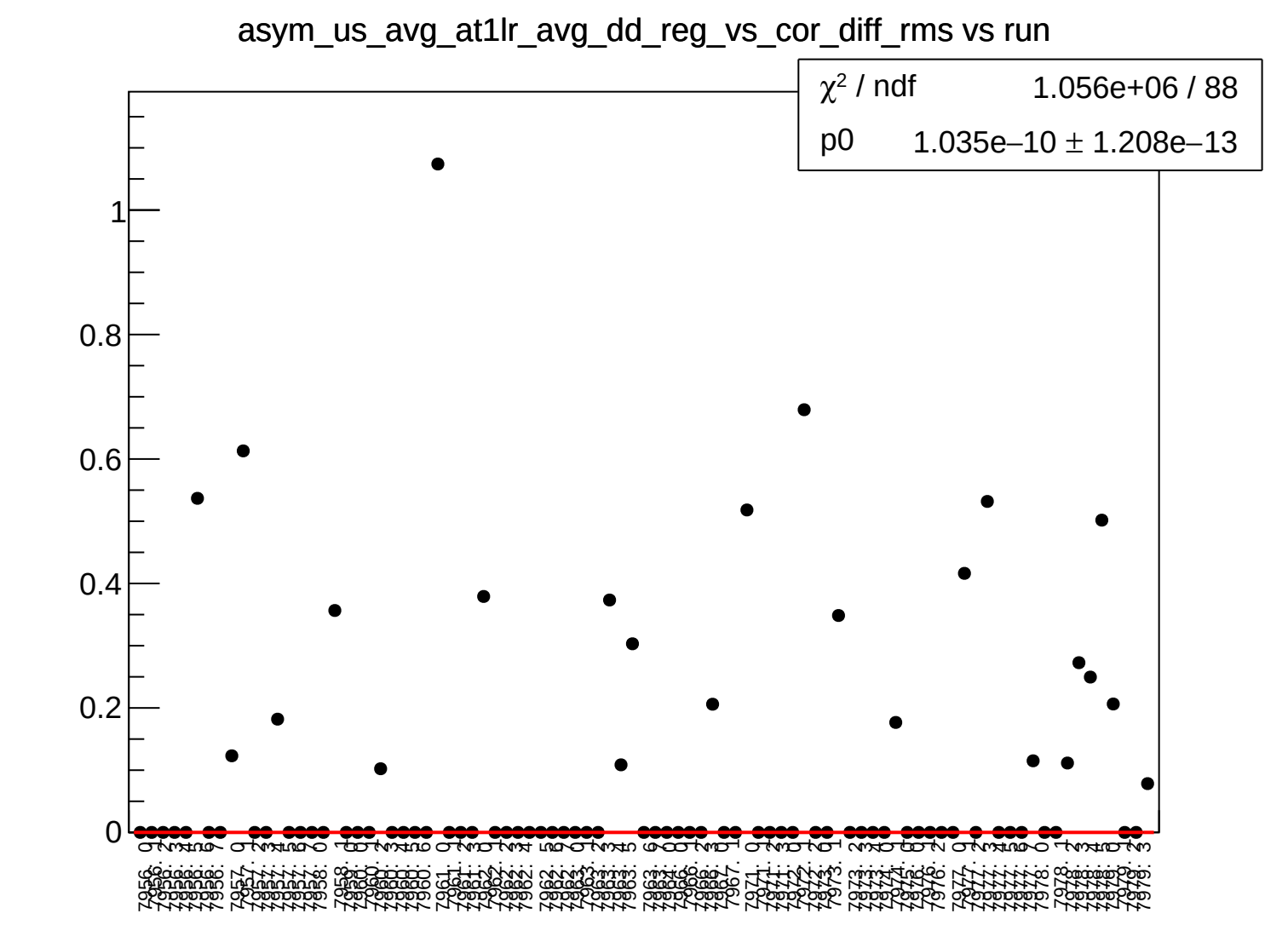

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.293e+05 / 88
p0 960.4 ± 0.7451
1800
1600
1400
1200
1000
800

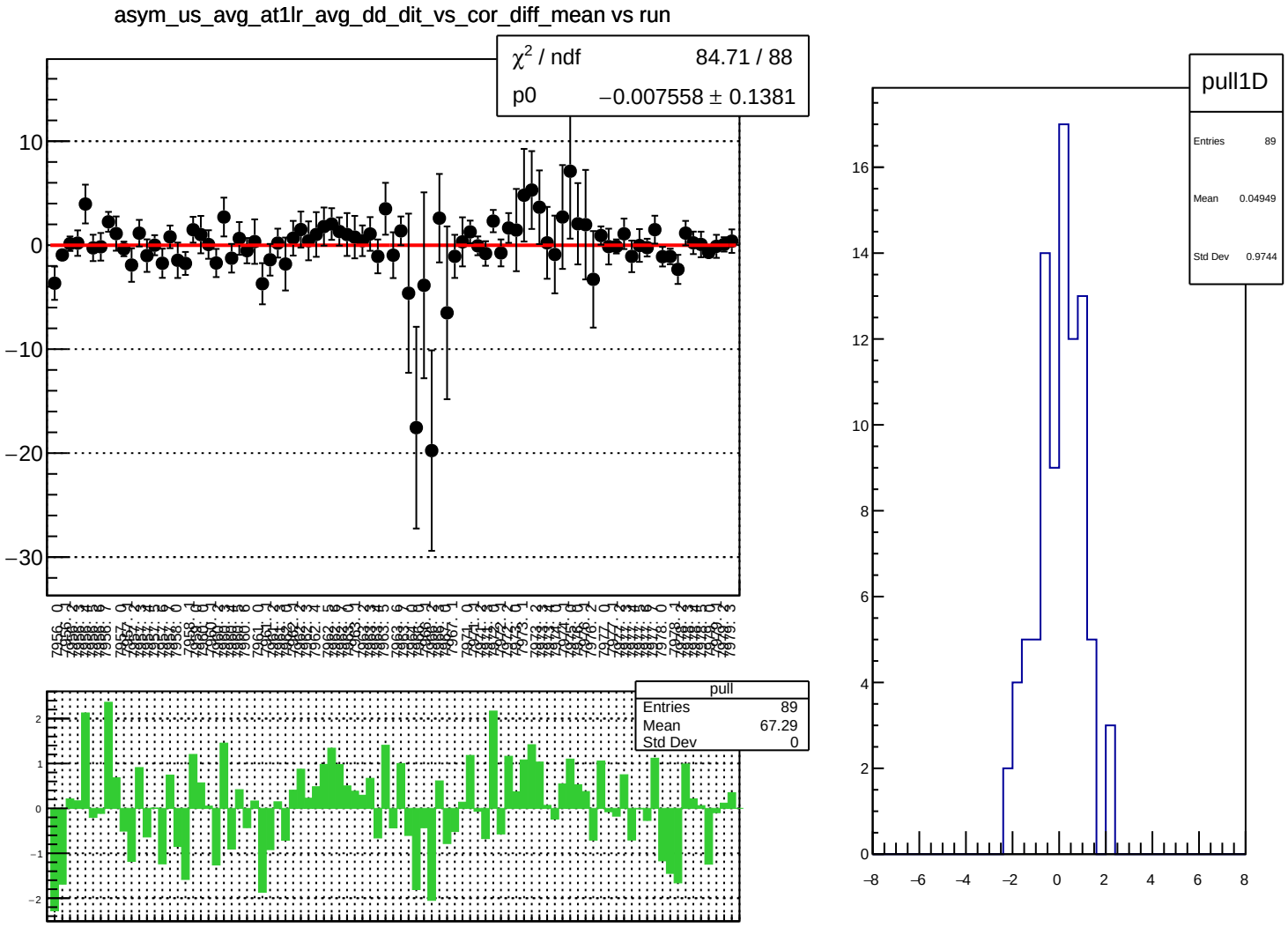

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 68.34 / 88
p0 1407 ± 2113
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 741.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

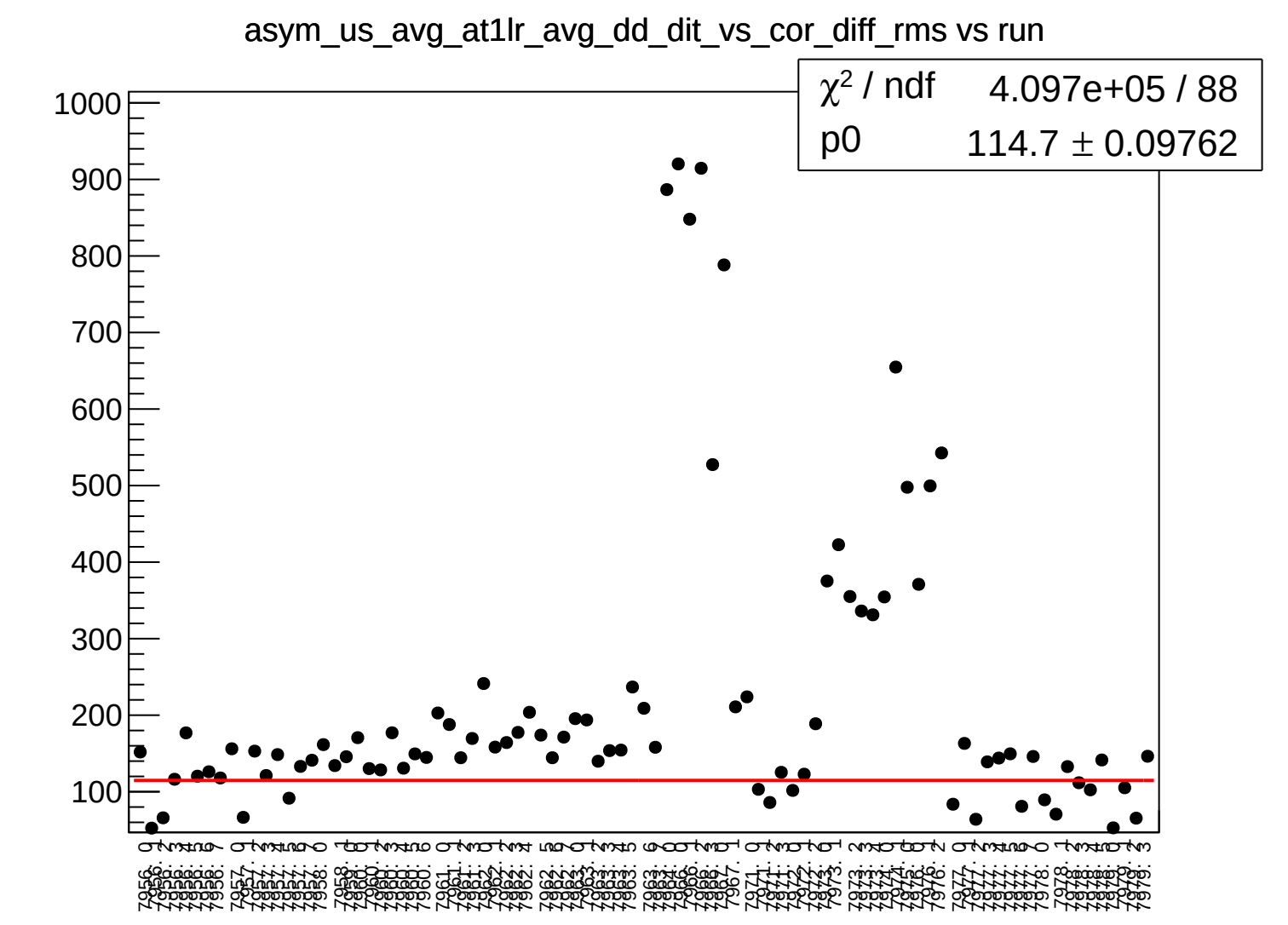

pull1D
Entries 89
Mean −0.00419
Std Dev 0.8762
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

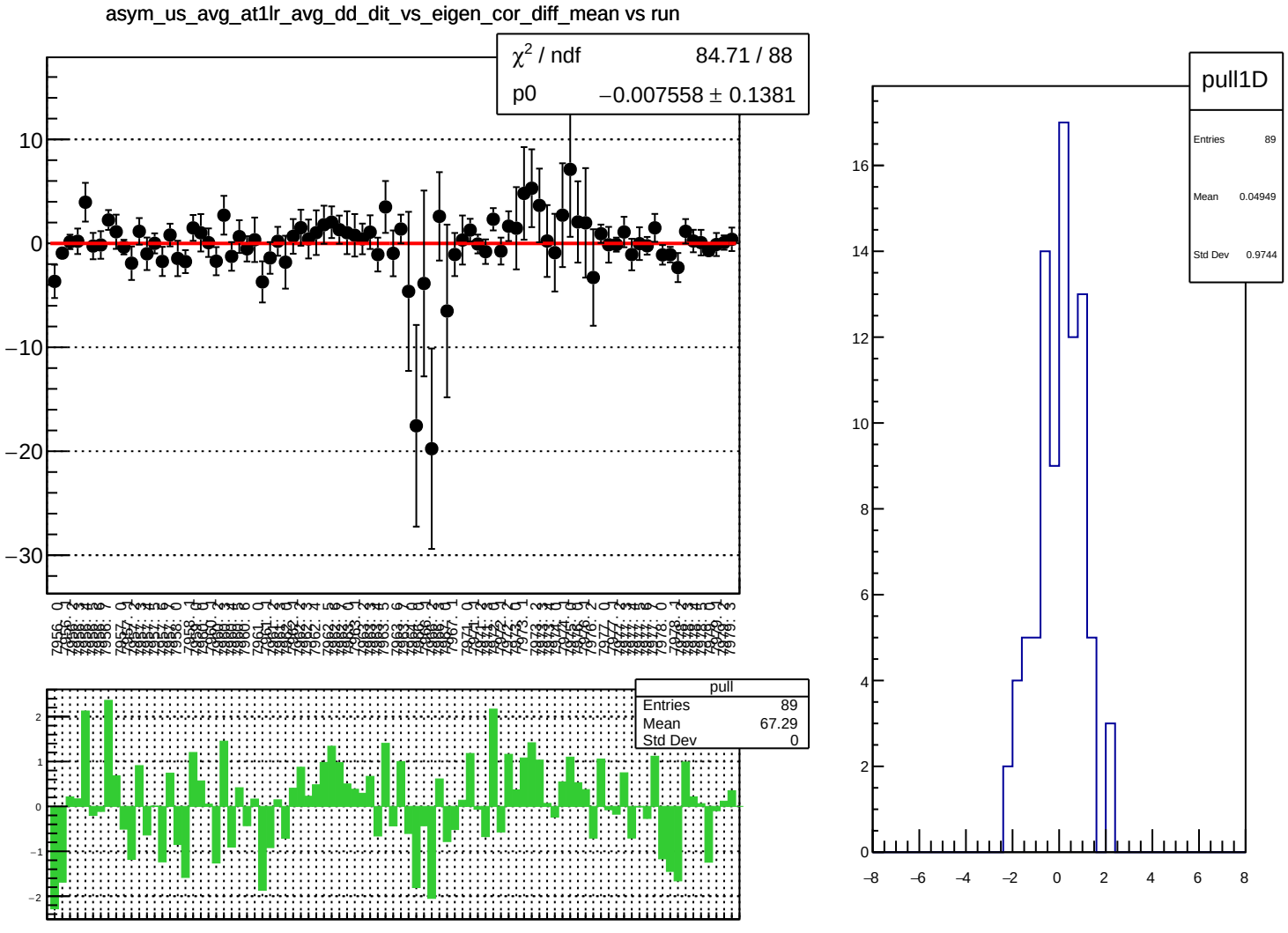

asym_us_avg_at1lr_avg_dd_rms vs run
$\chi^2$ / ndf 1.702e+04 / 88
p0 1989 ± 1.494
3000
2800
2600
2400
2200
2000
1800

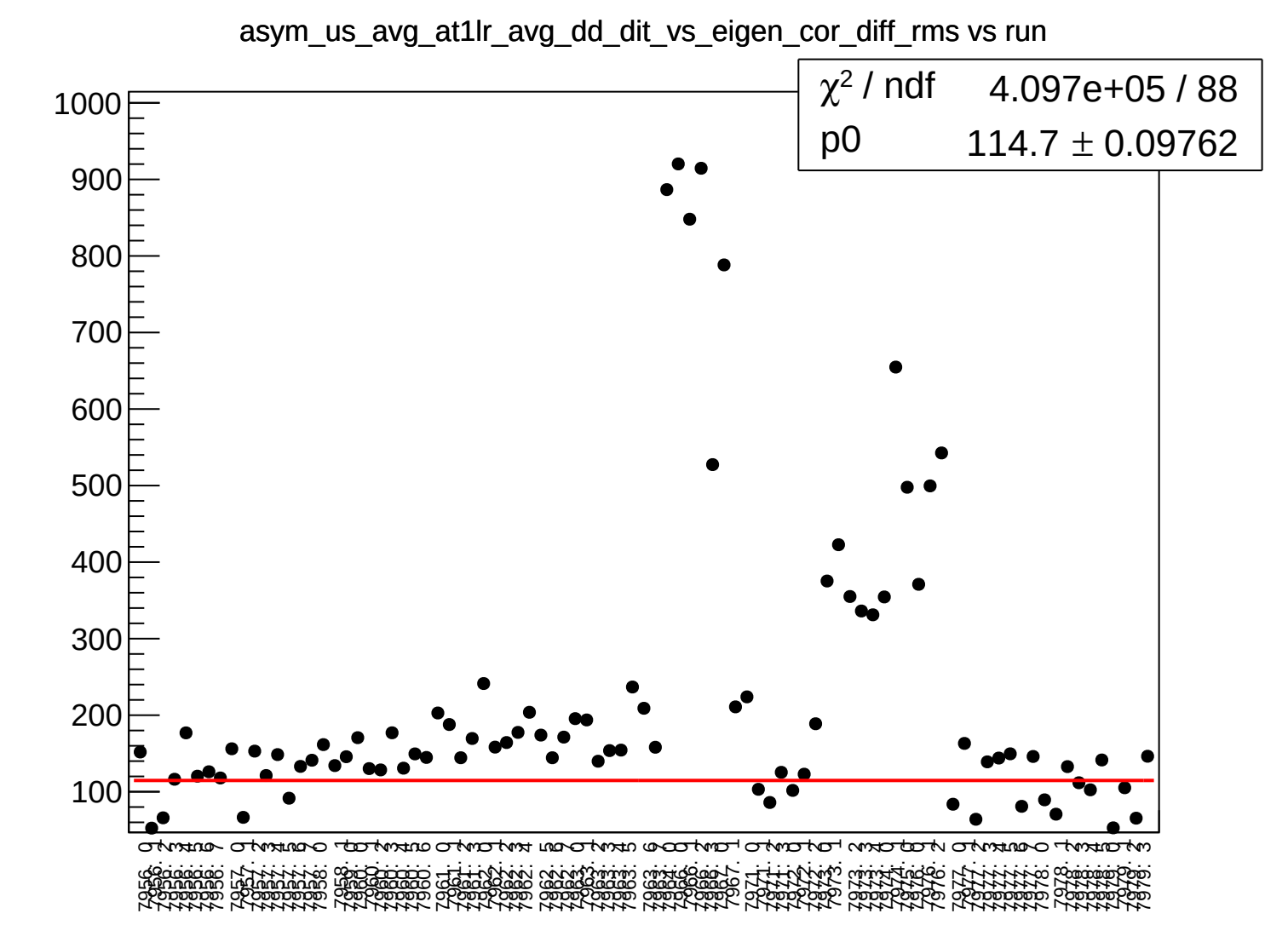

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98 / 88
p0 1.662e−13 ± 1.709e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 114.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.05967
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

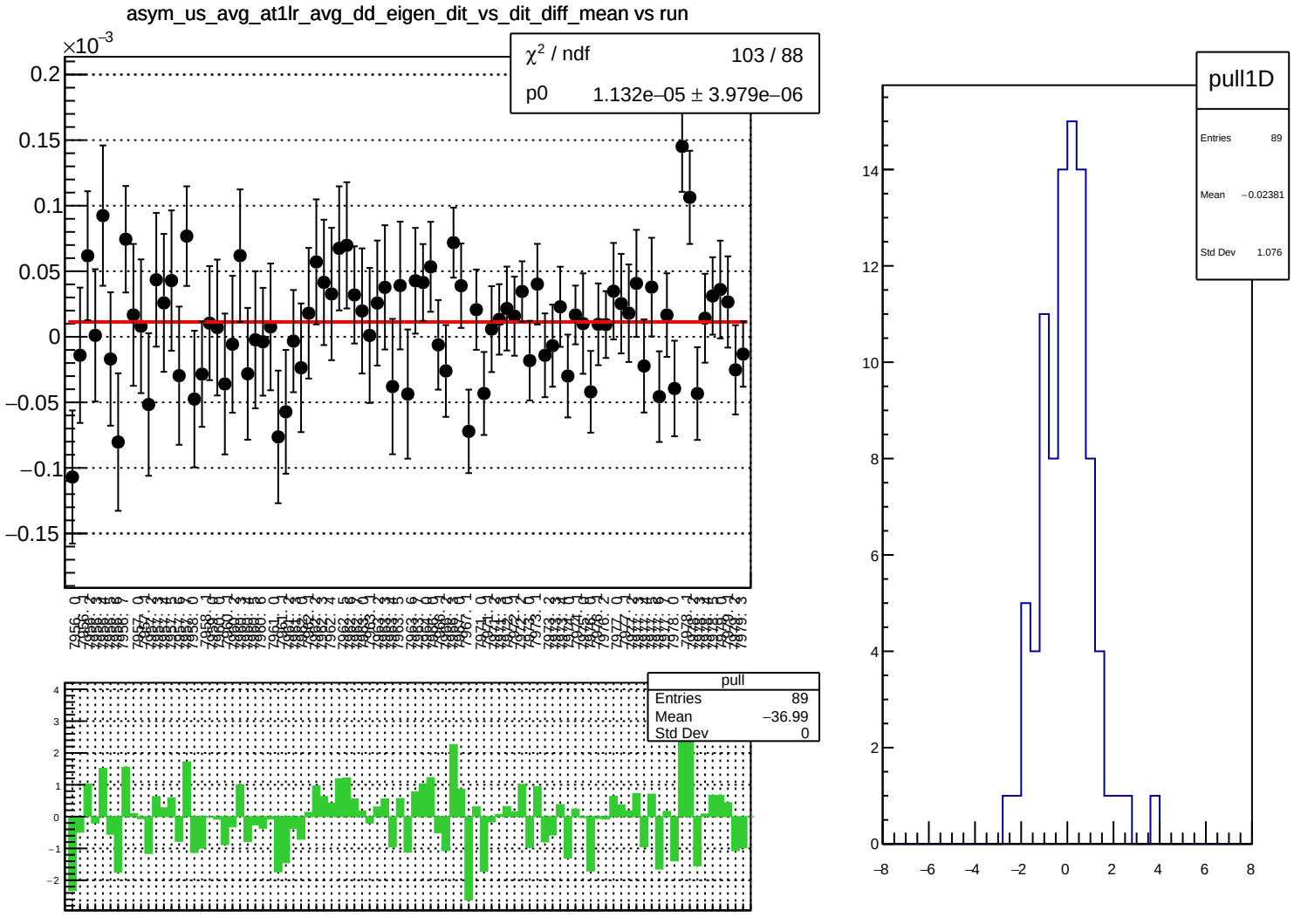

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.056e+06 / 88
p0 1.035e−10 ± 1.208e−13
1
0.8
0.6
0.4
0.2
0

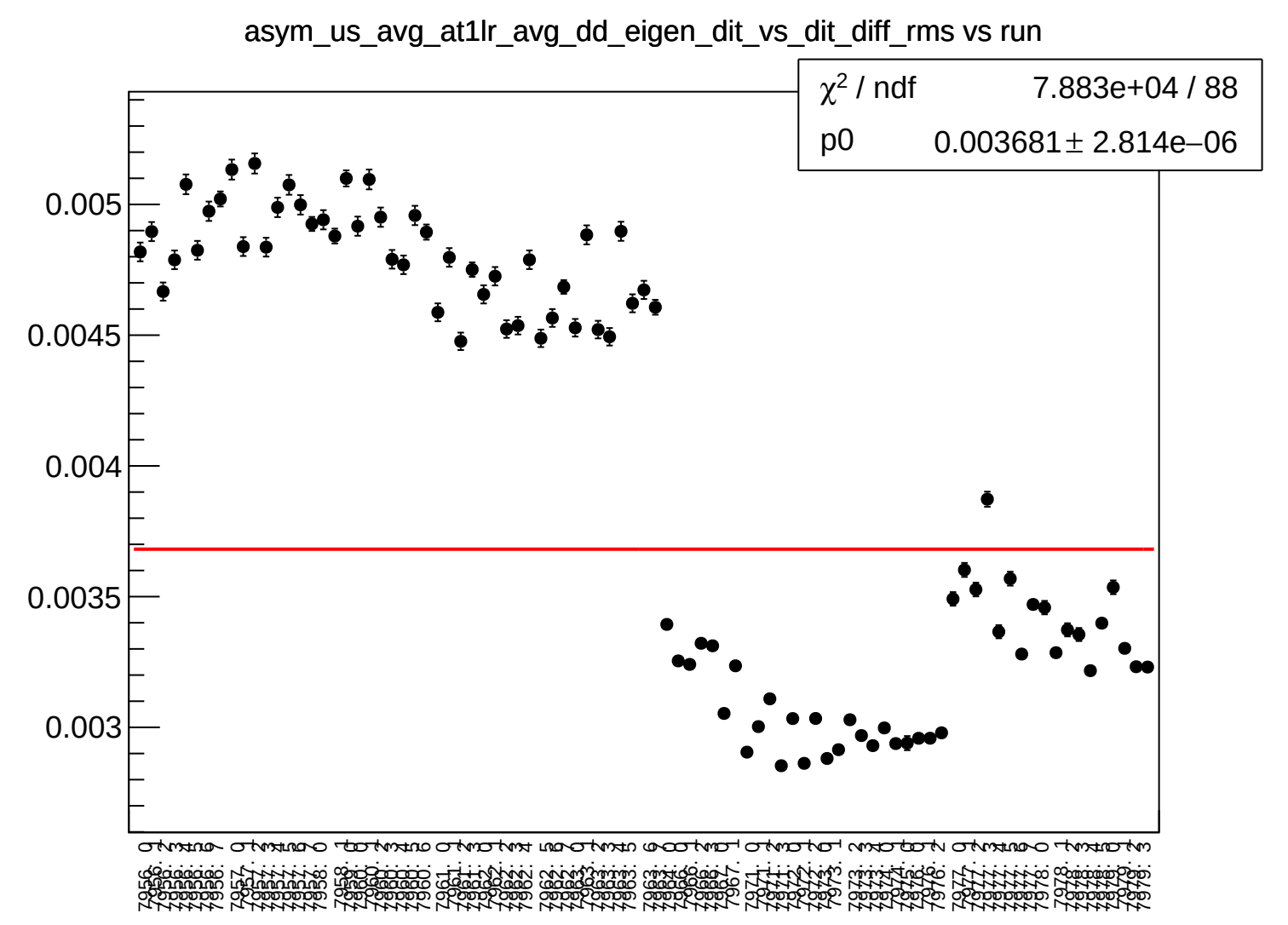

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.71 / 88
p0 −0.007558 ± 0.1381
pull
Entries 89
Mean 67.29
Std Dev 0
pull1D
Entries 89
Mean 0.04949
Std Dev 0.9744

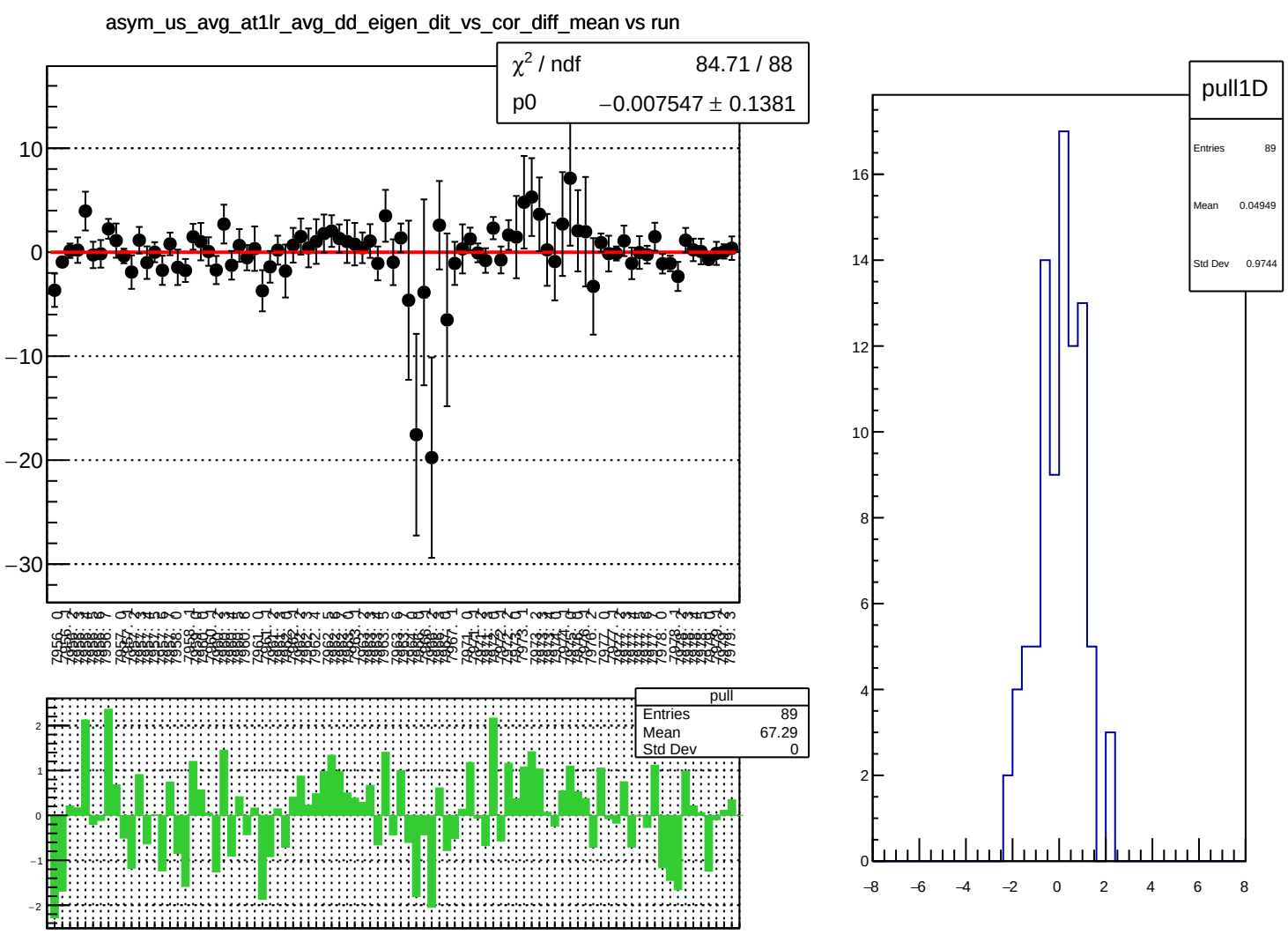

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.097e+05 / 88
p0 114.7 ± 0.09762
1000
900
800
700
600
500
400
300
200
100

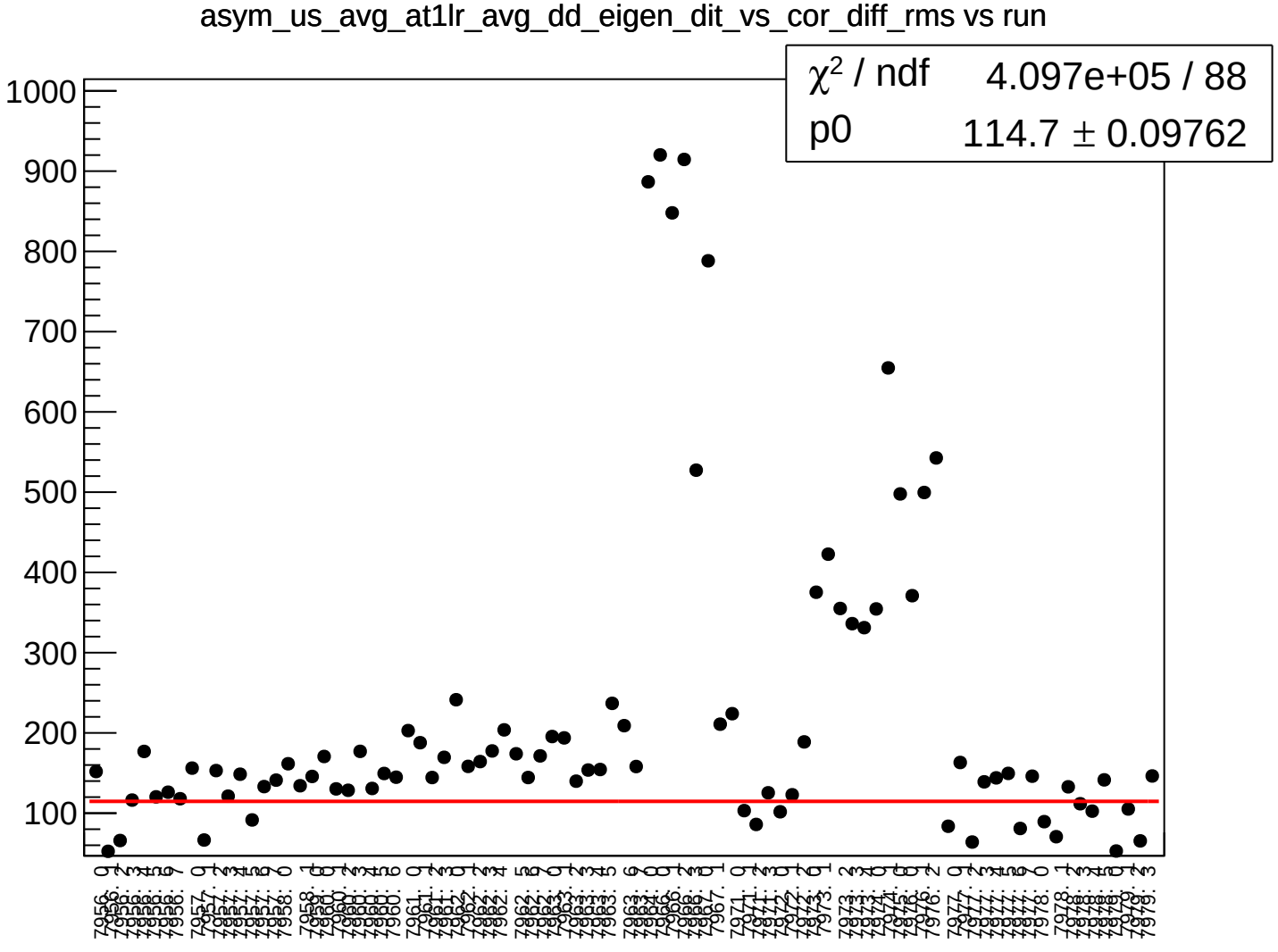

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.71 / 88
p0 −0.007558 ± 0.1381
pull
Entries 89
Mean 67.29
Std Dev 0
pull1D
Entries 89
Mean 0.04949
Std Dev 0.9744

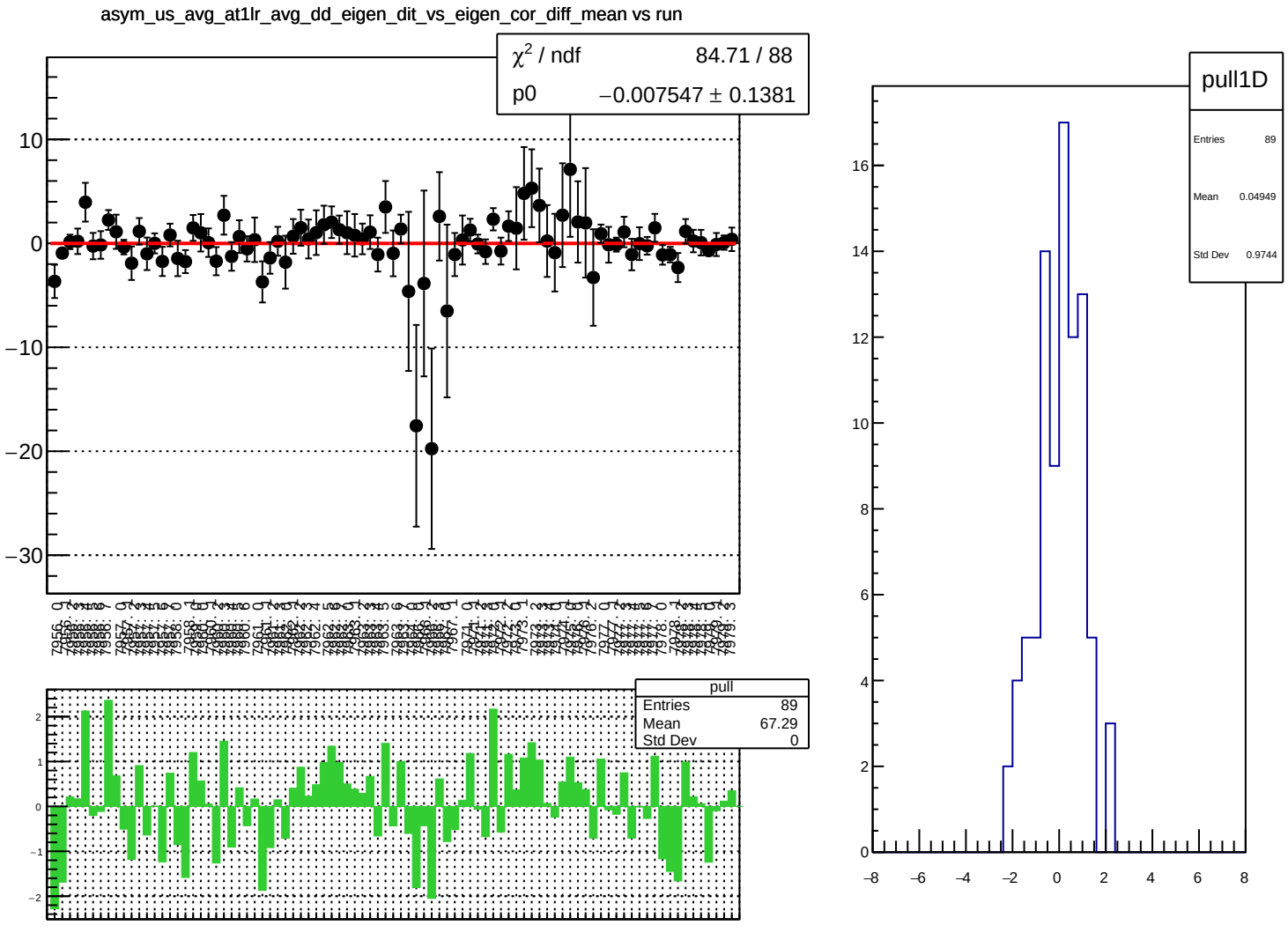

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.097e+05 / 88
p0 114.7 ± 0.09762
1000
900
800
700
600
500
400
300
200
100

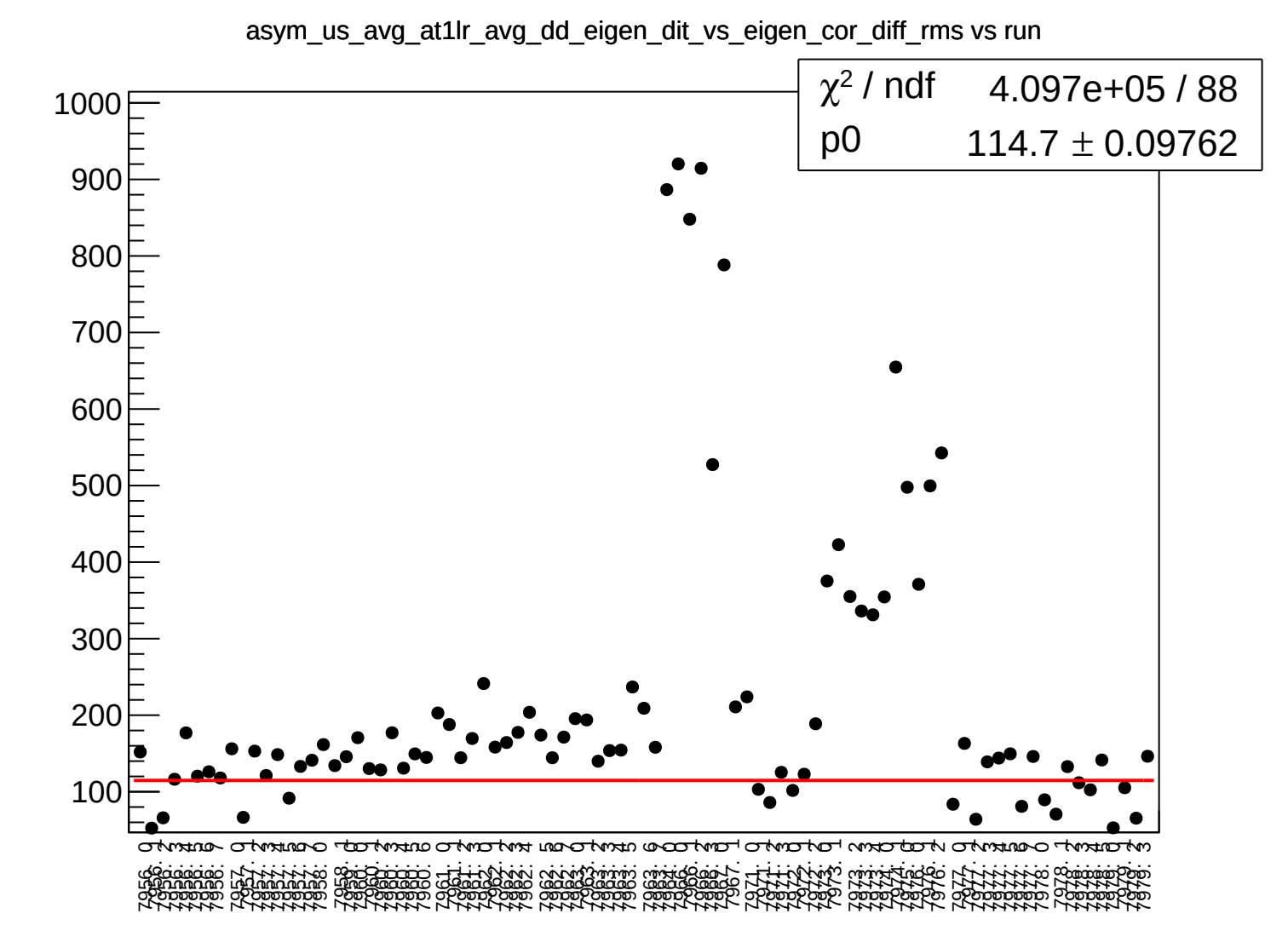

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103 / 88
p0 1.132e−05 ± 3.979e−06
pull
Entries 89
Mean −36.99
Std Dev 0
pull1D
Entries 89
Mean −0.02381
Std Dev 1.076

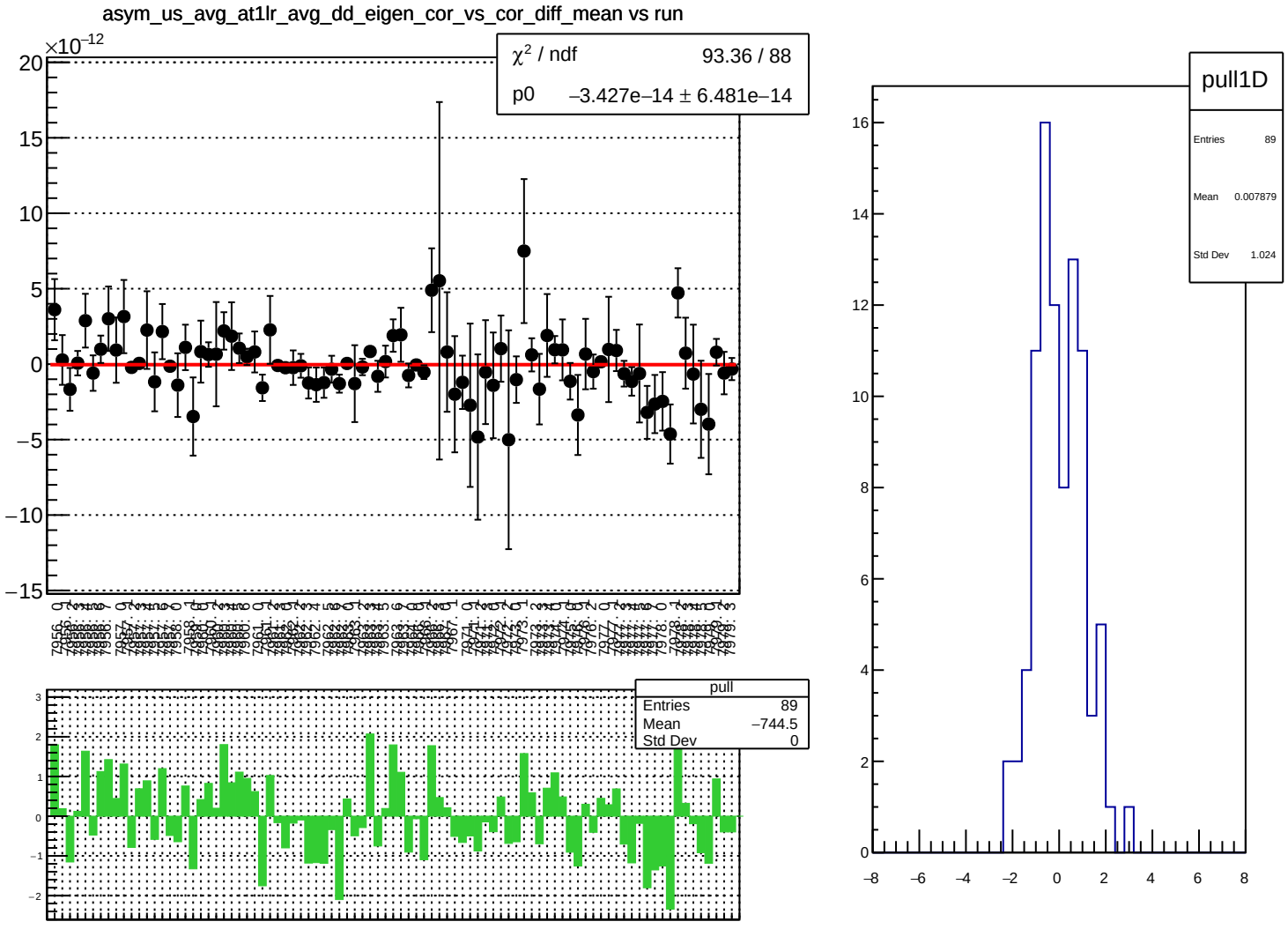

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.883e+04 / 88
p0 0.003681 ± 2.814e−06
0.005
0.0045
0.004
0.0035
0.003

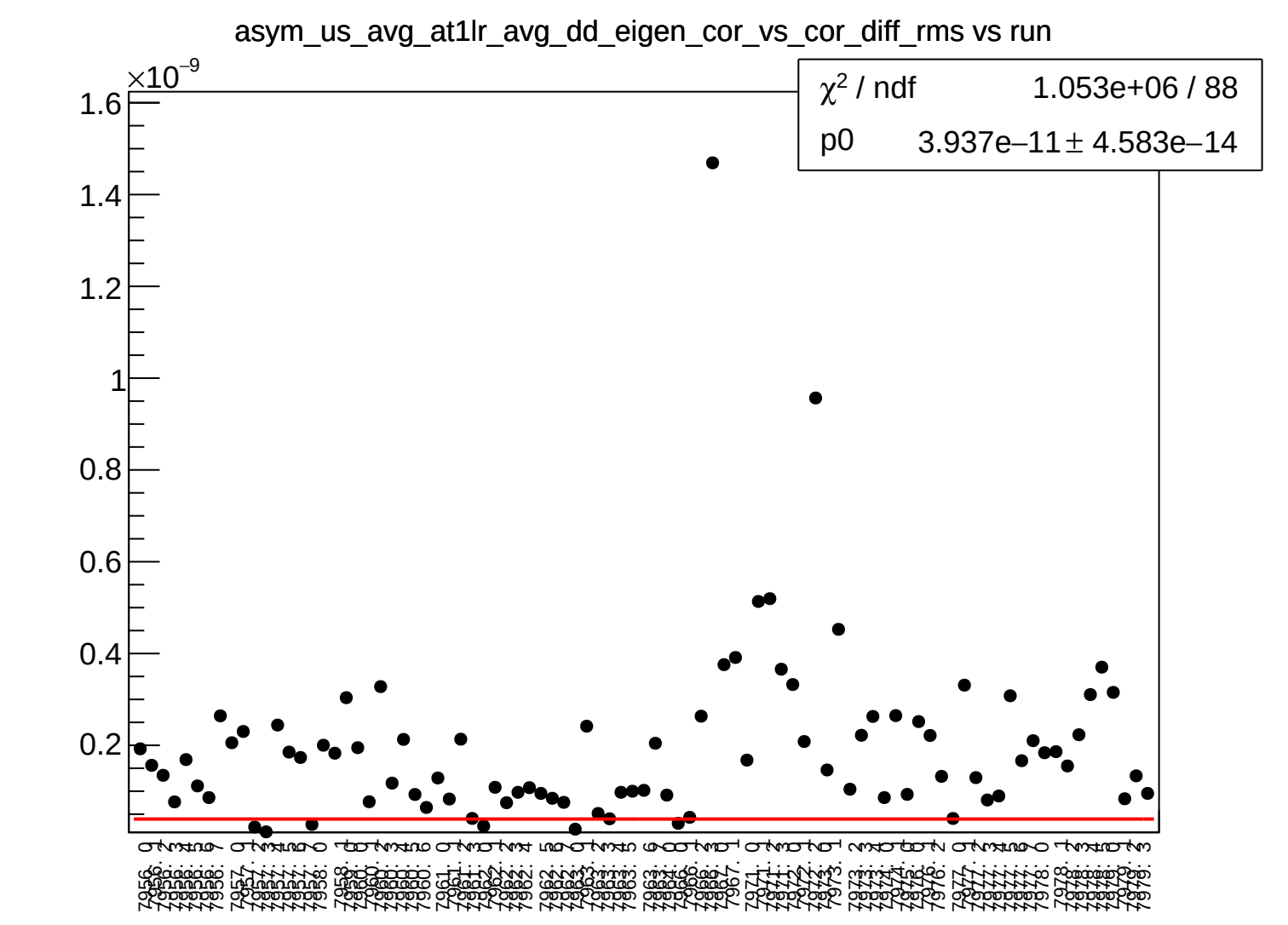

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.71 / 88
p0 −0.007547 ± 0.1381
pull
Entries 89
Mean 67.29
Std Dev 0
pull1D
Entries 89
Mean 0.04949
Std Dev 0.9744

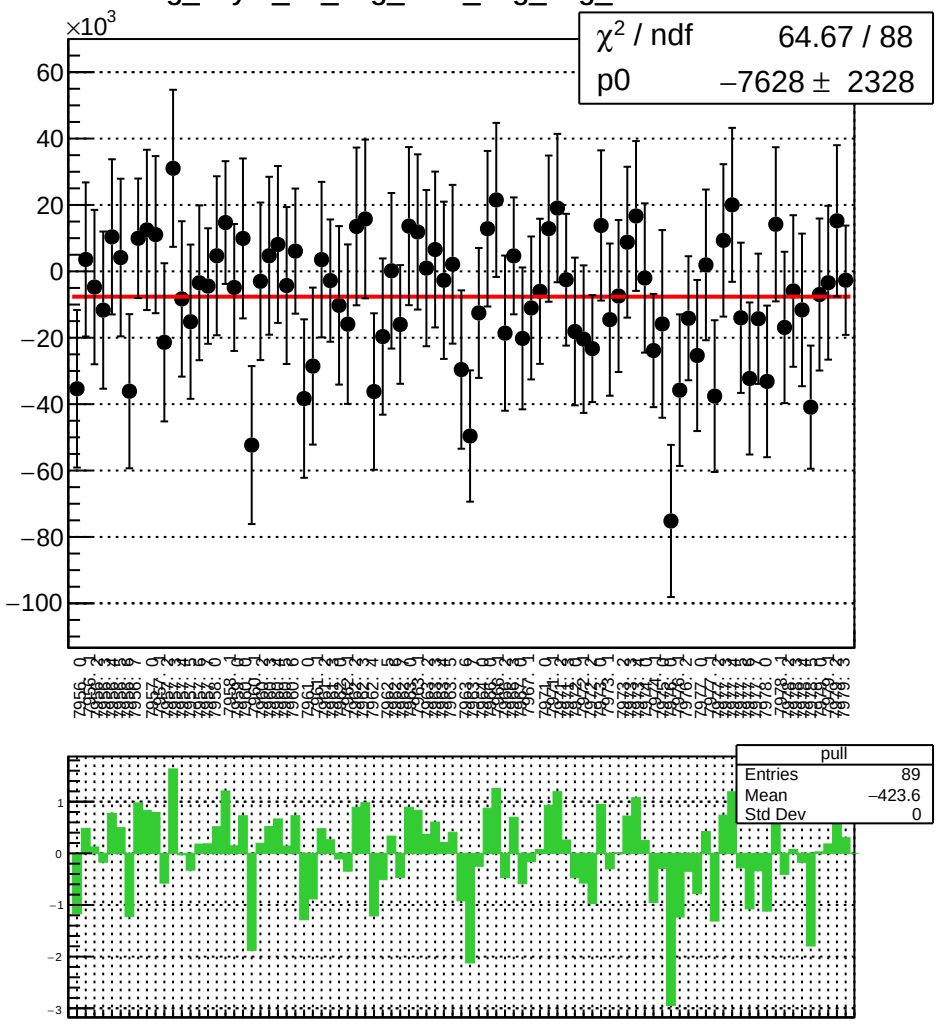

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.097e+05 / 88
p0 114.7 ± 0.09762
1000
900
800
700
600
500
400
300
200
100

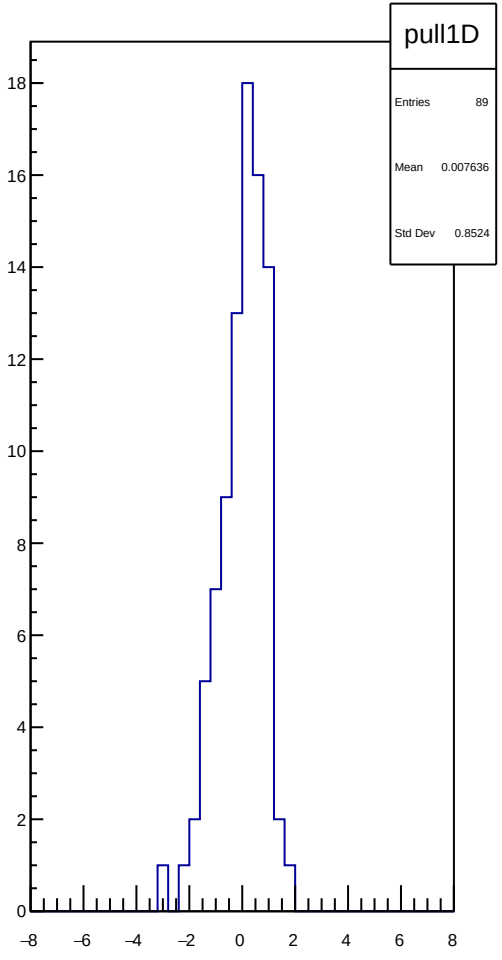

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.71 / 88
p0 −0.007547 ± 0.1381
pull
Entries 89
Mean 67.29
Std Dev 0
pull1D
Entries 89
Mean 0.04949
Std Dev 0.9744

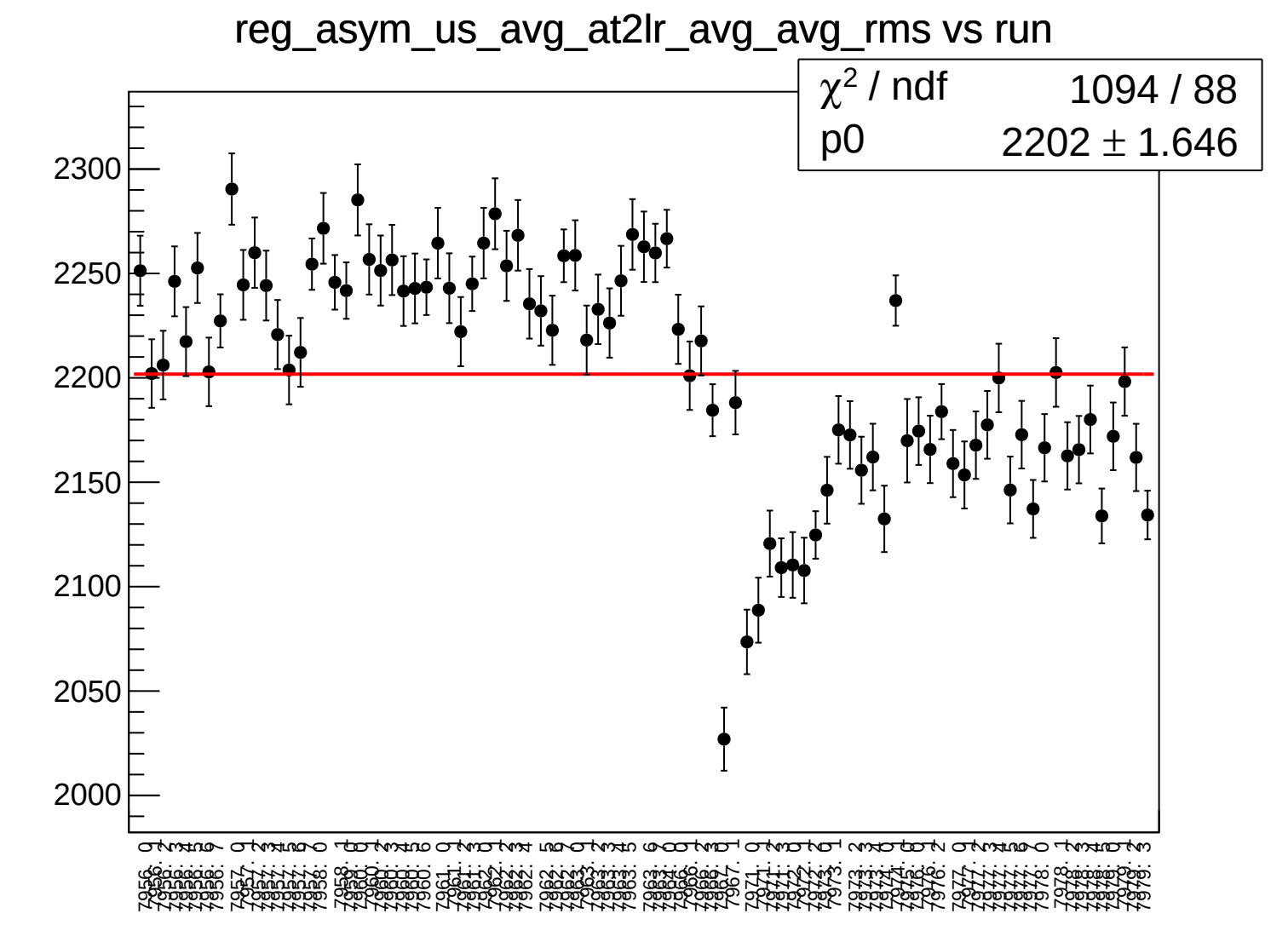

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.097e+05 / 88
p0 114.7 ± 0.09762
1000
900
800
700
600
500
400
300
200
100

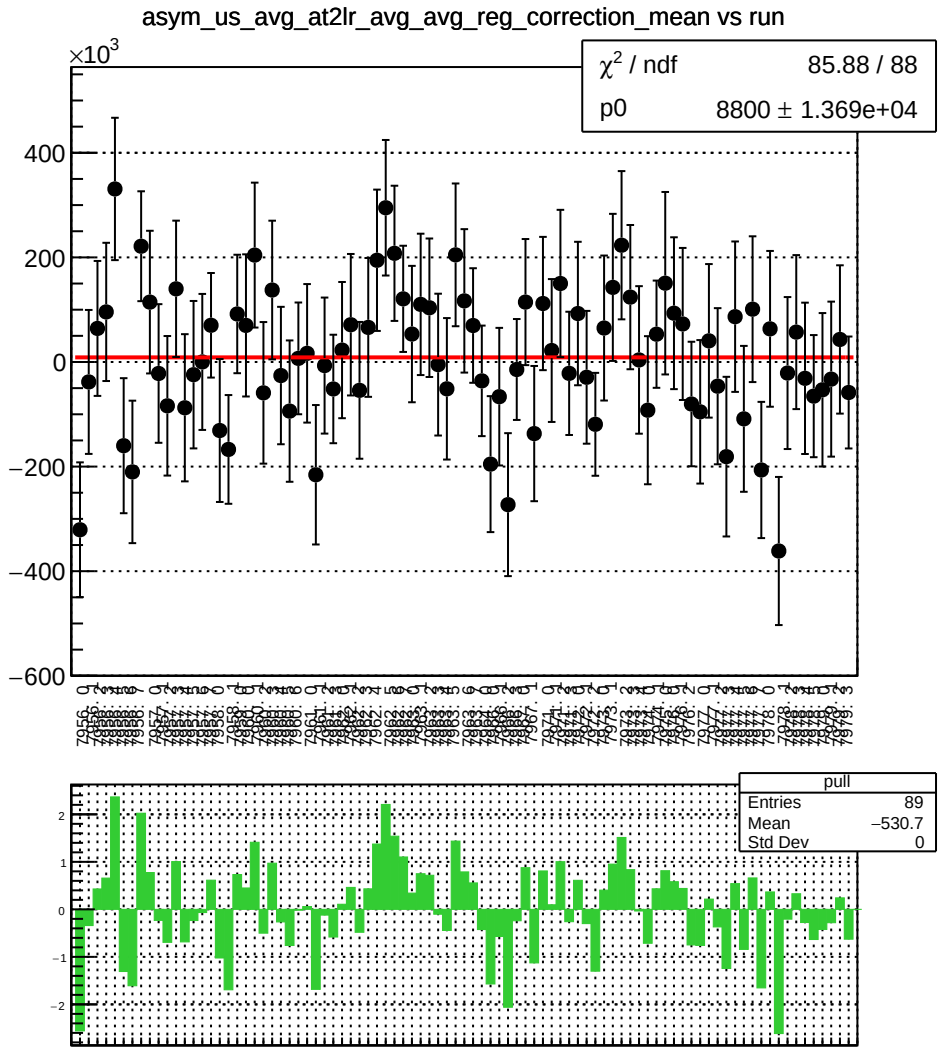

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.36 / 88
p0 −3.427e−14 ± 6.481e−14
pull
Entries 89
Mean −744.5
Std Dev 0
pull1D
Entries 89
Mean 0.007879
Std Dev 1.024

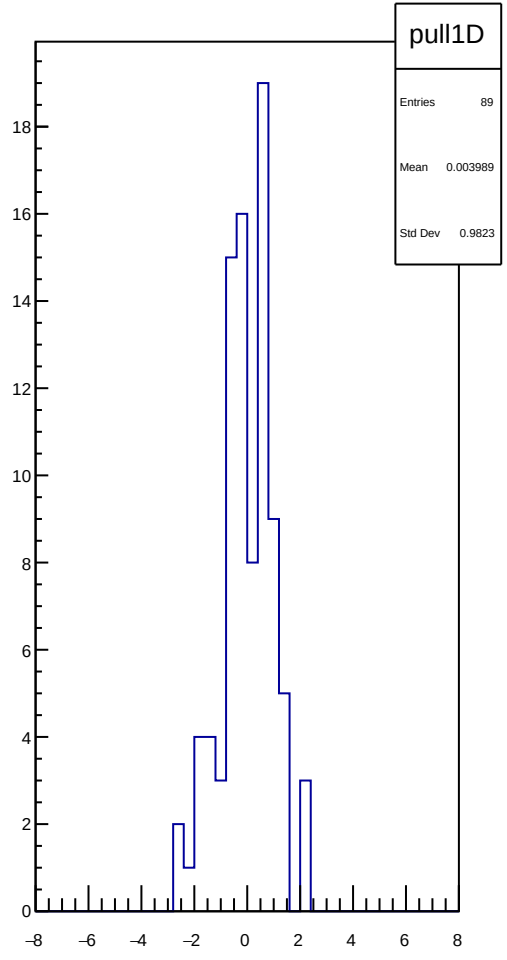

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.053e+06 / 88
p0 3.937e−11 ± 4.583e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

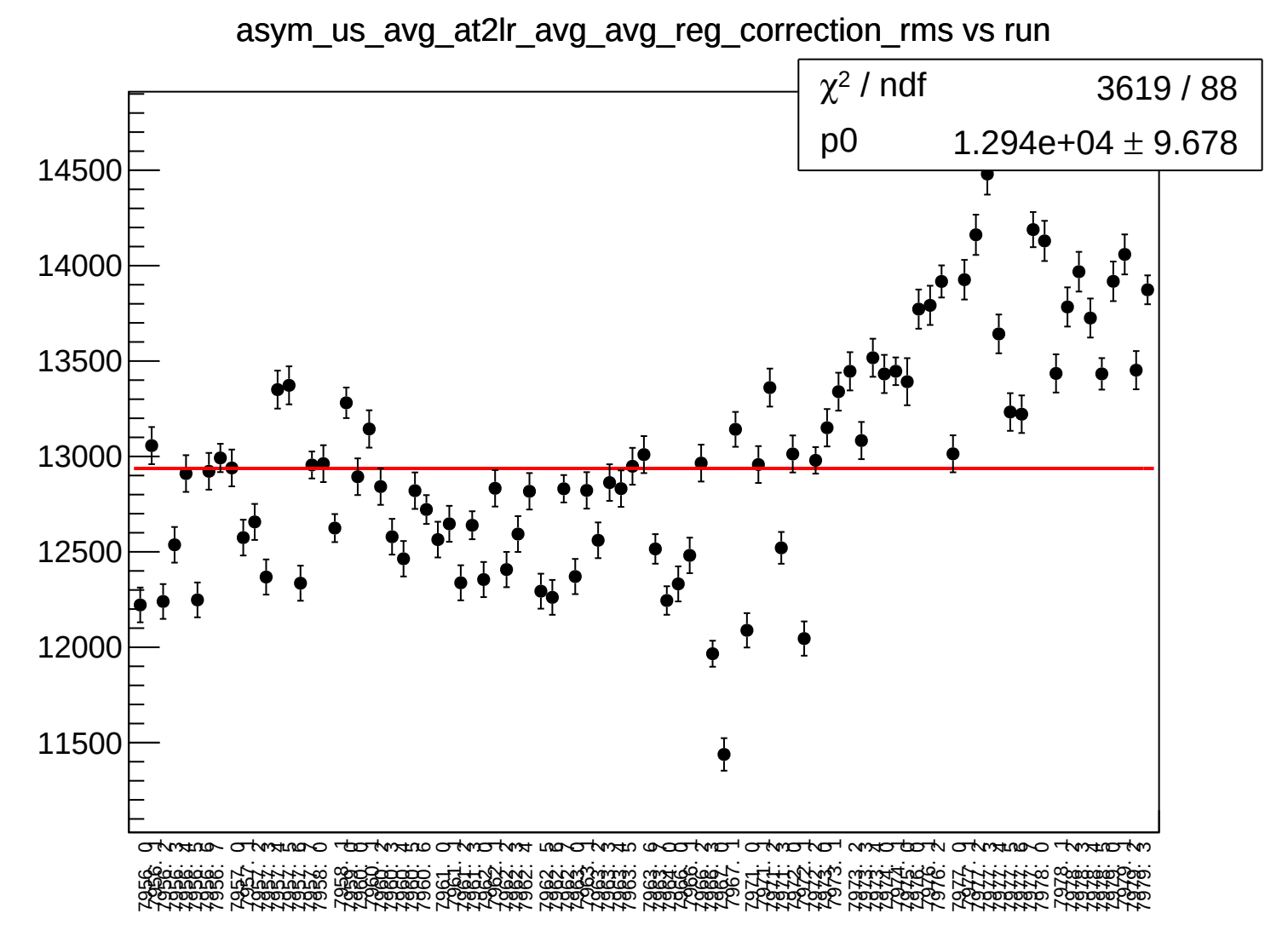

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 64.67 / 88
p0 −7628 ± 2328
pull
Entries 89
Mean −423.6
Std Dev 0

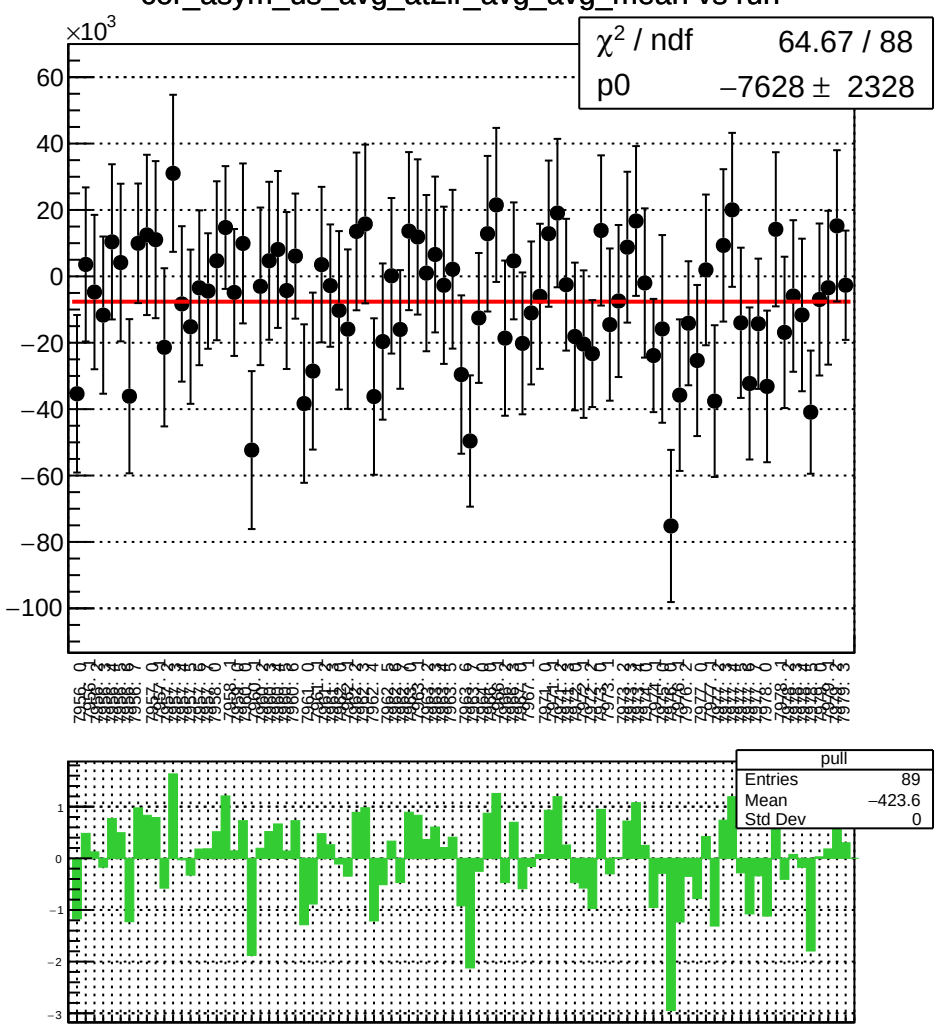

pull1D
Entries 89
Mean 0.007636
Std Dev 0.8524

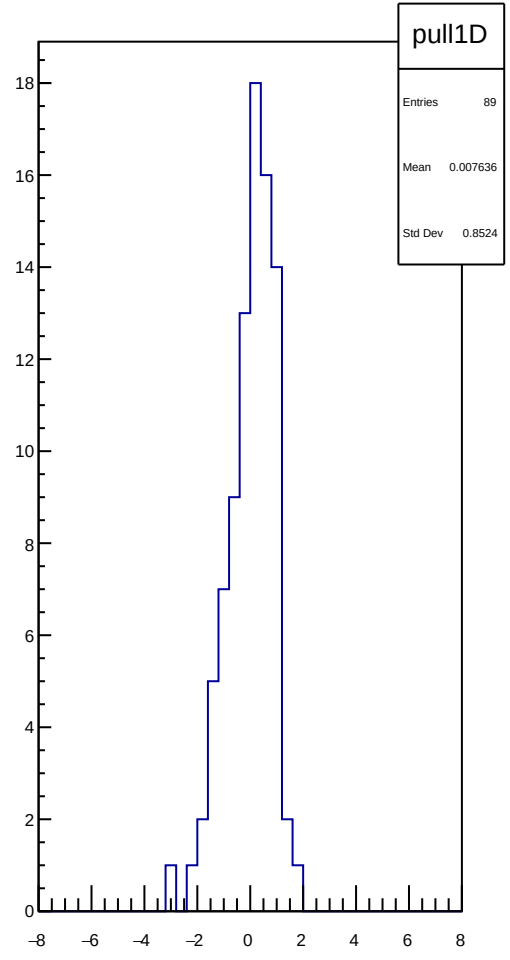

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1094 / 88
p0 2202 ± 1.646
2300
2250
2200
2150
2100
2050
2000

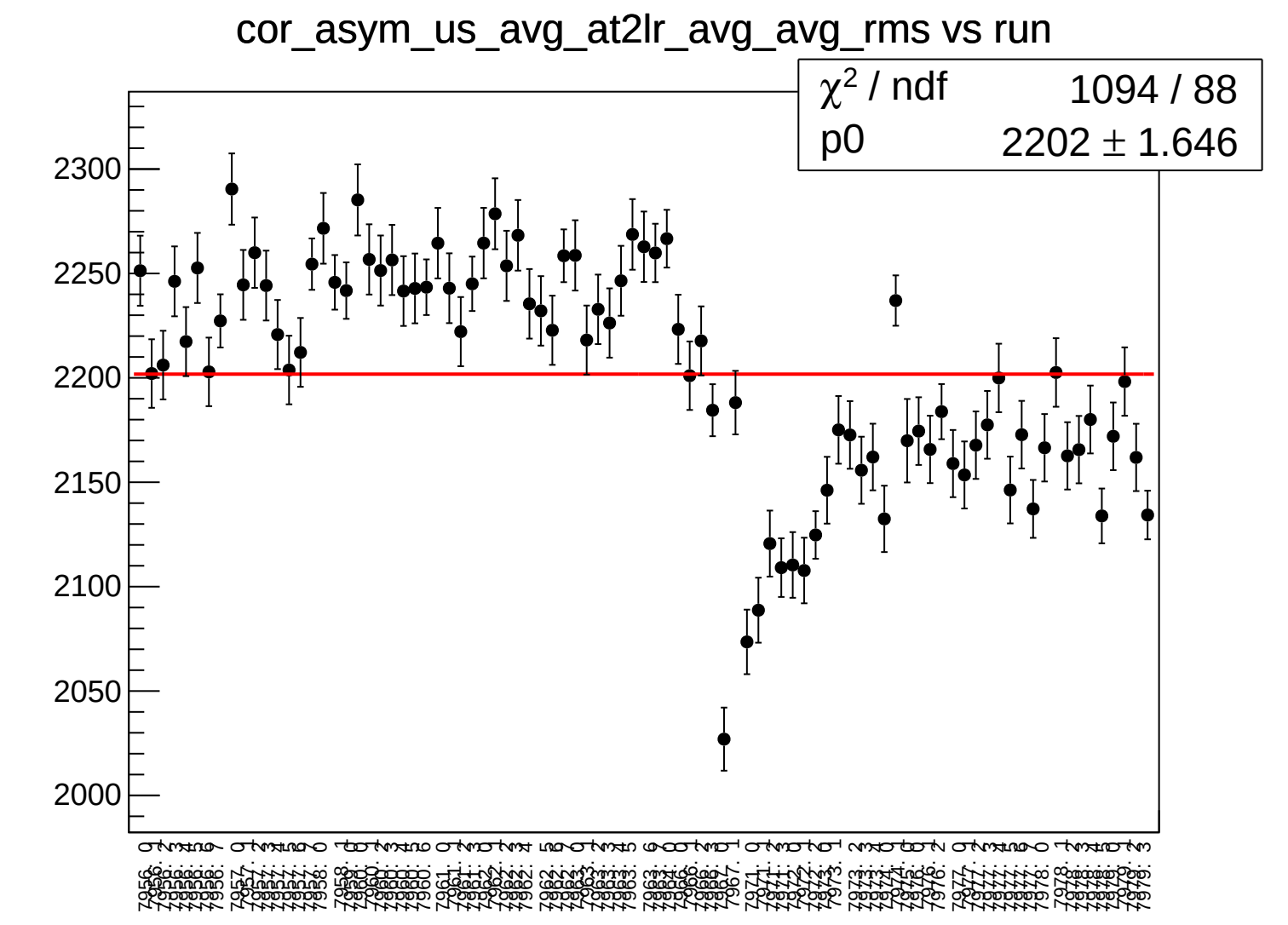

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.88 / 88
p0 8800 ± 1.369e+04
pull
Entries 89
Mean −530.7
Std Dev 0

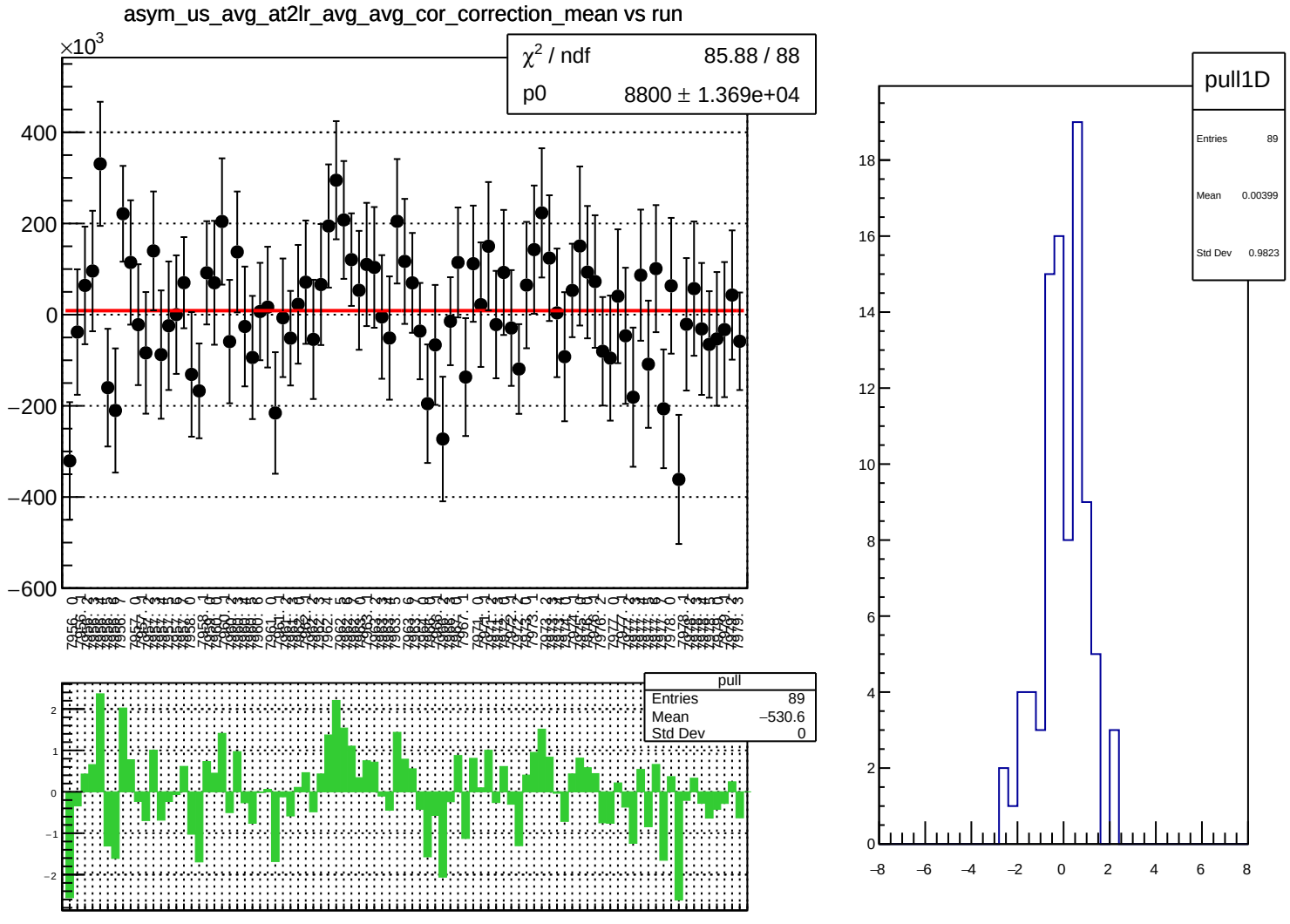

pull1D
Entries 89
Mean 0.003989
Std Dev 0.9823

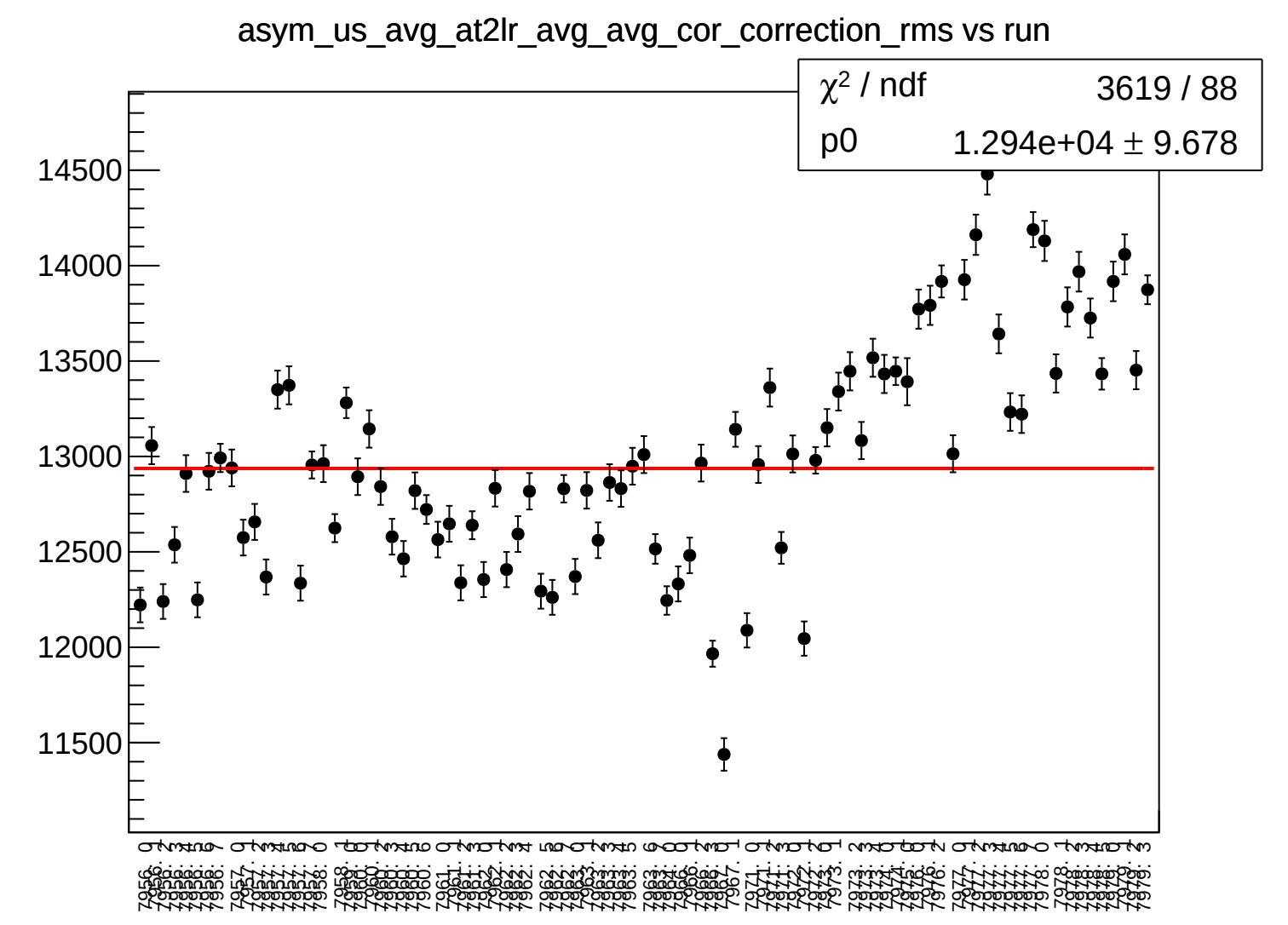

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3619 / 88
p0 1.294e+04 ± 9.678
14500
14000
13500
13000
12500
12000
11500

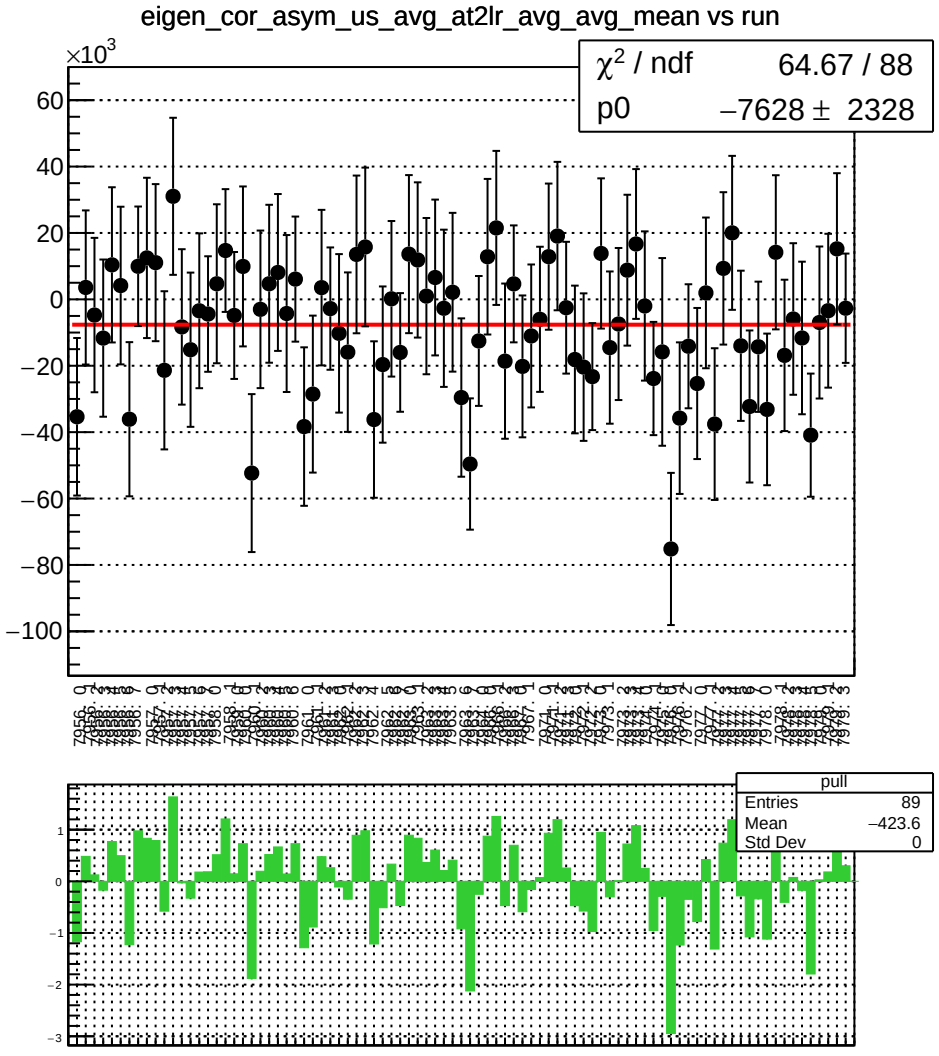

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 64.67 / 88
p0 −7628 ± 2328
pull
Entries 89
Mean −423.6
Std Dev 0

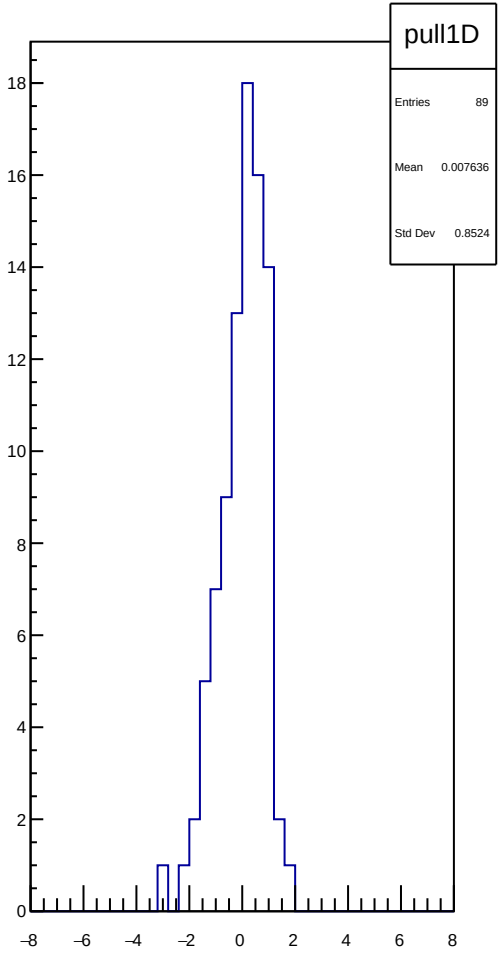

pull1D
Entries 89
Mean 0.007636
Std Dev 0.8524

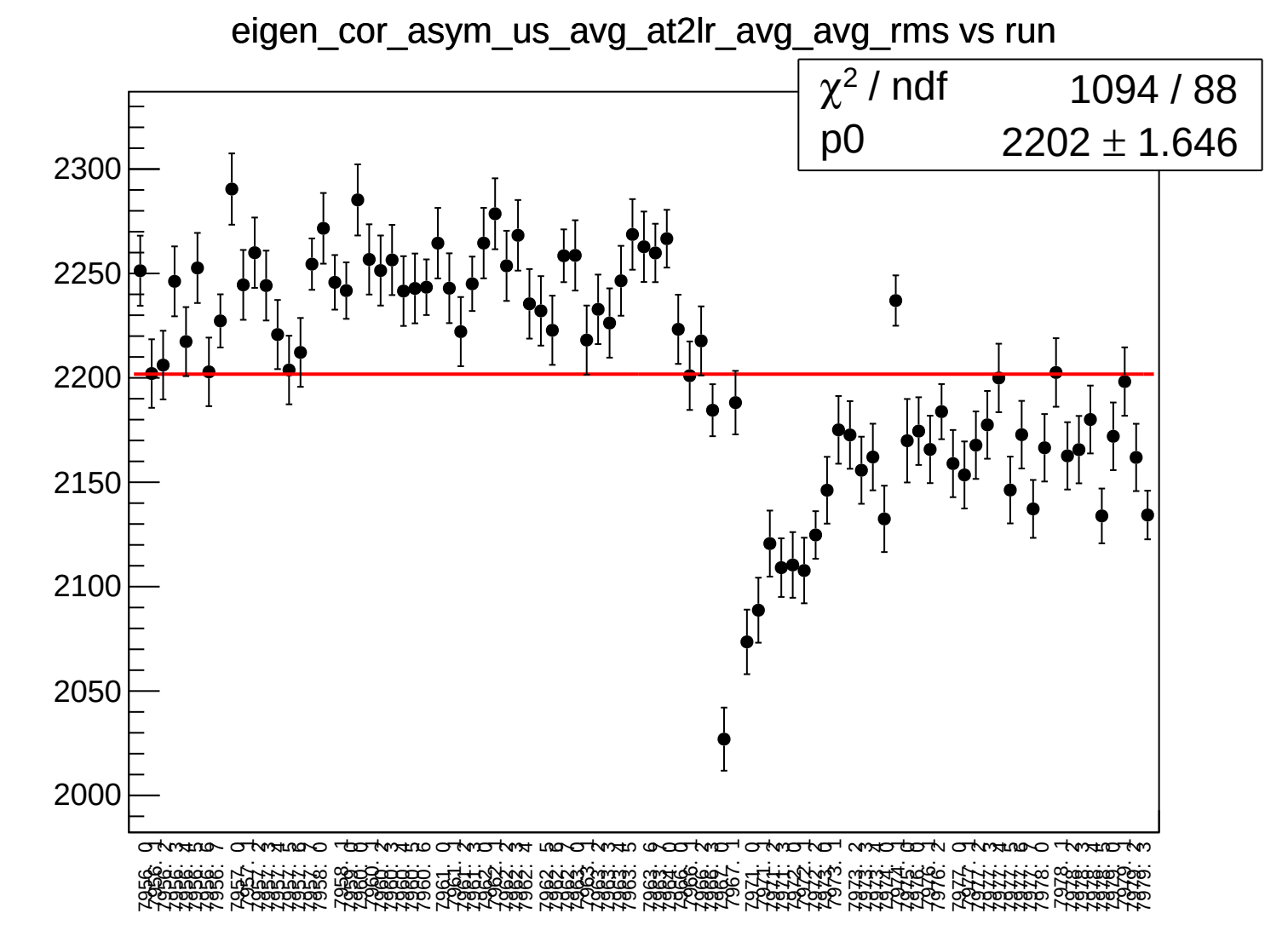

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1094 / 88
p0 2202 ± 1.646
2300
2250
2200
2150
2100
2050
2000

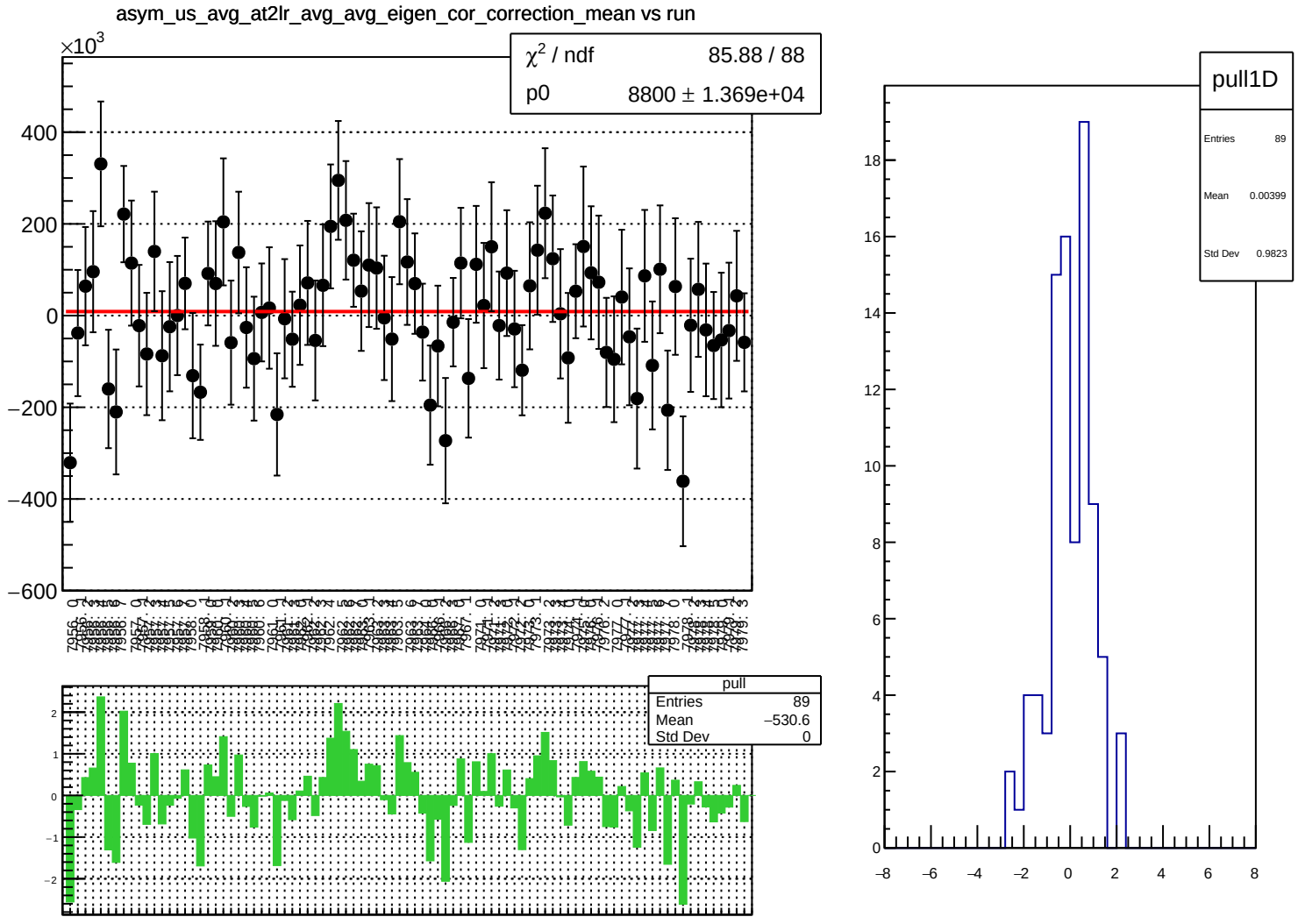

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.88 / 88
p0 8800 ± 1.369e+04
400
200
0
−200
−400
−600
pull
Entries 89
Mean −530.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.00399
Std Dev 0.9823
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

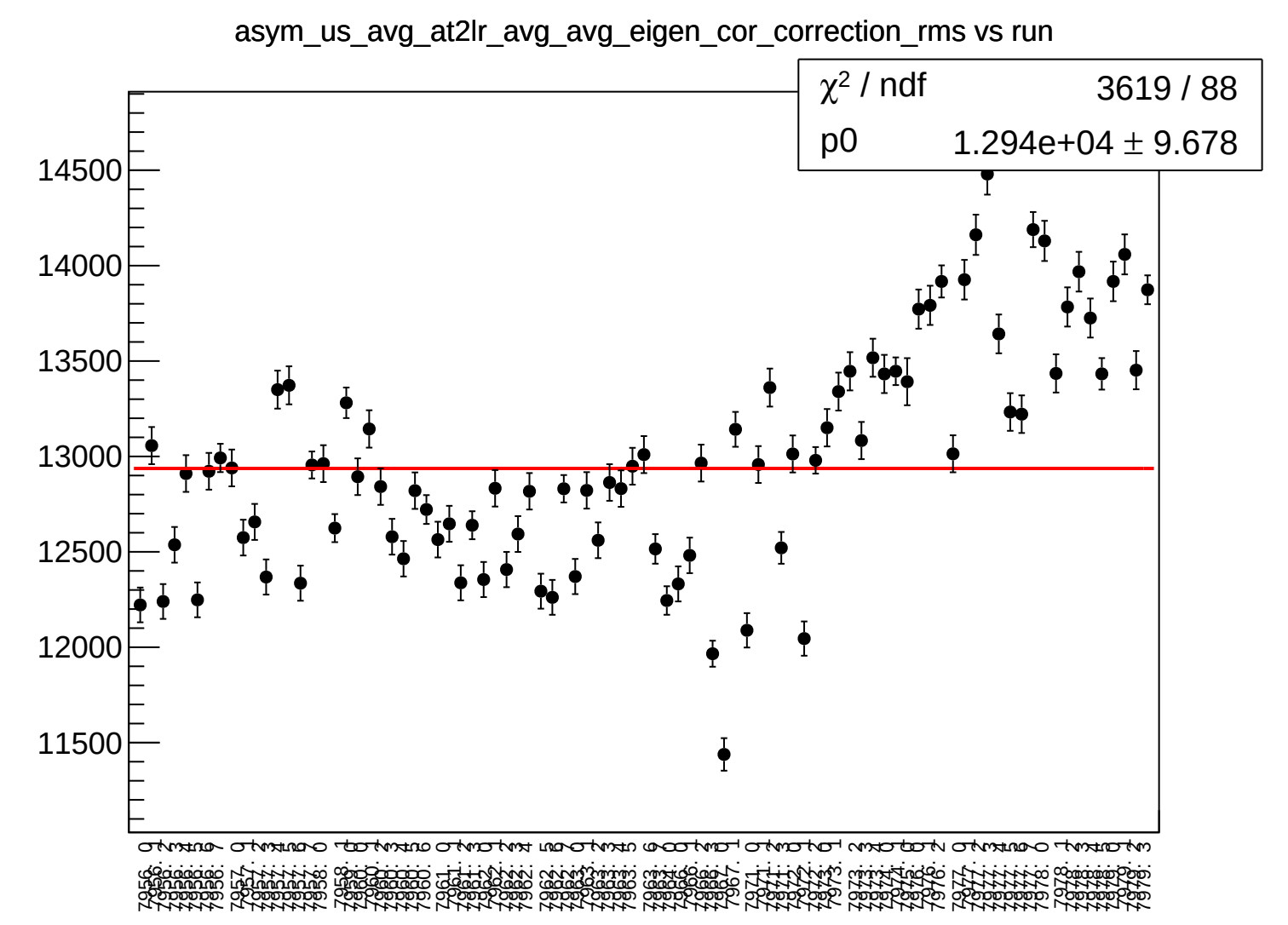

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3619 / 88
p0 1.294e+04 ± 9.678
14500
14000
13500
13000
12500
12000
11500

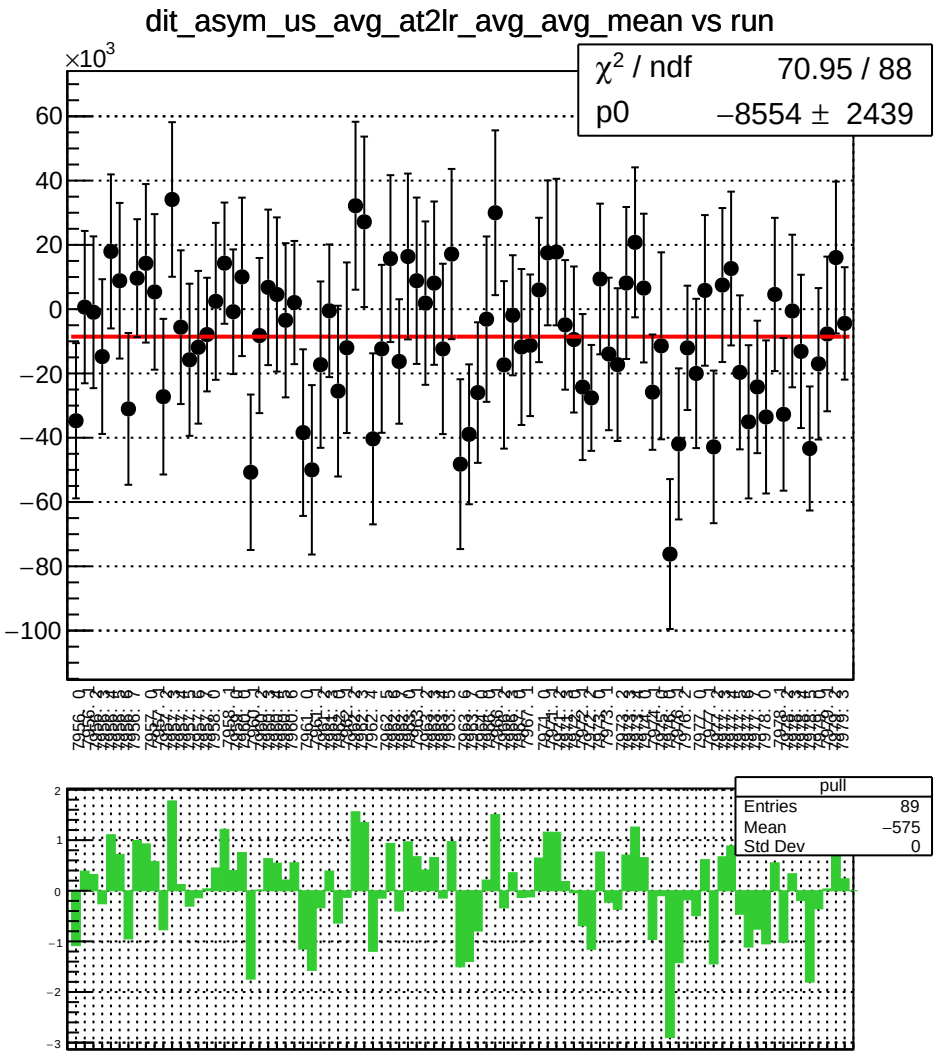

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 64.67 / 88
p0 −7628 ± 2328
pull
Entries 89
Mean −423.6
Std Dev 0

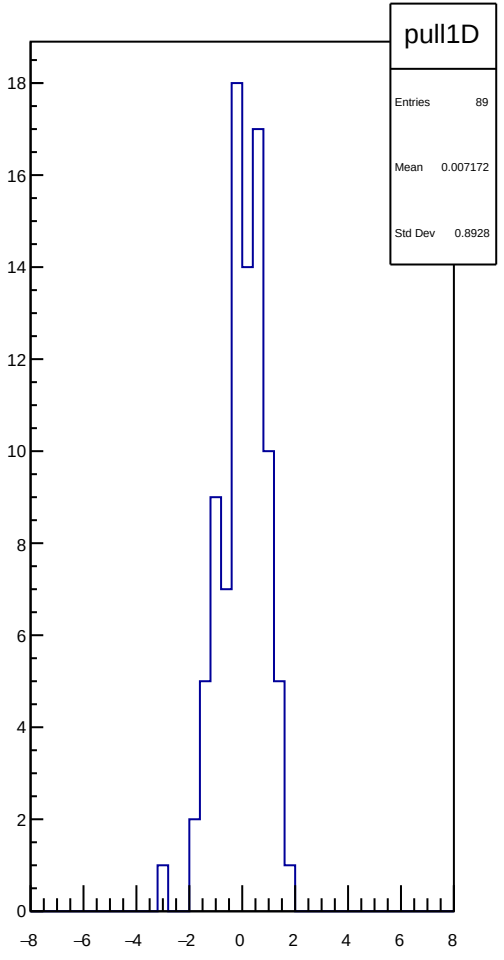

pull1D
Entries 89
Mean 0.007636
Std Dev 0.8524

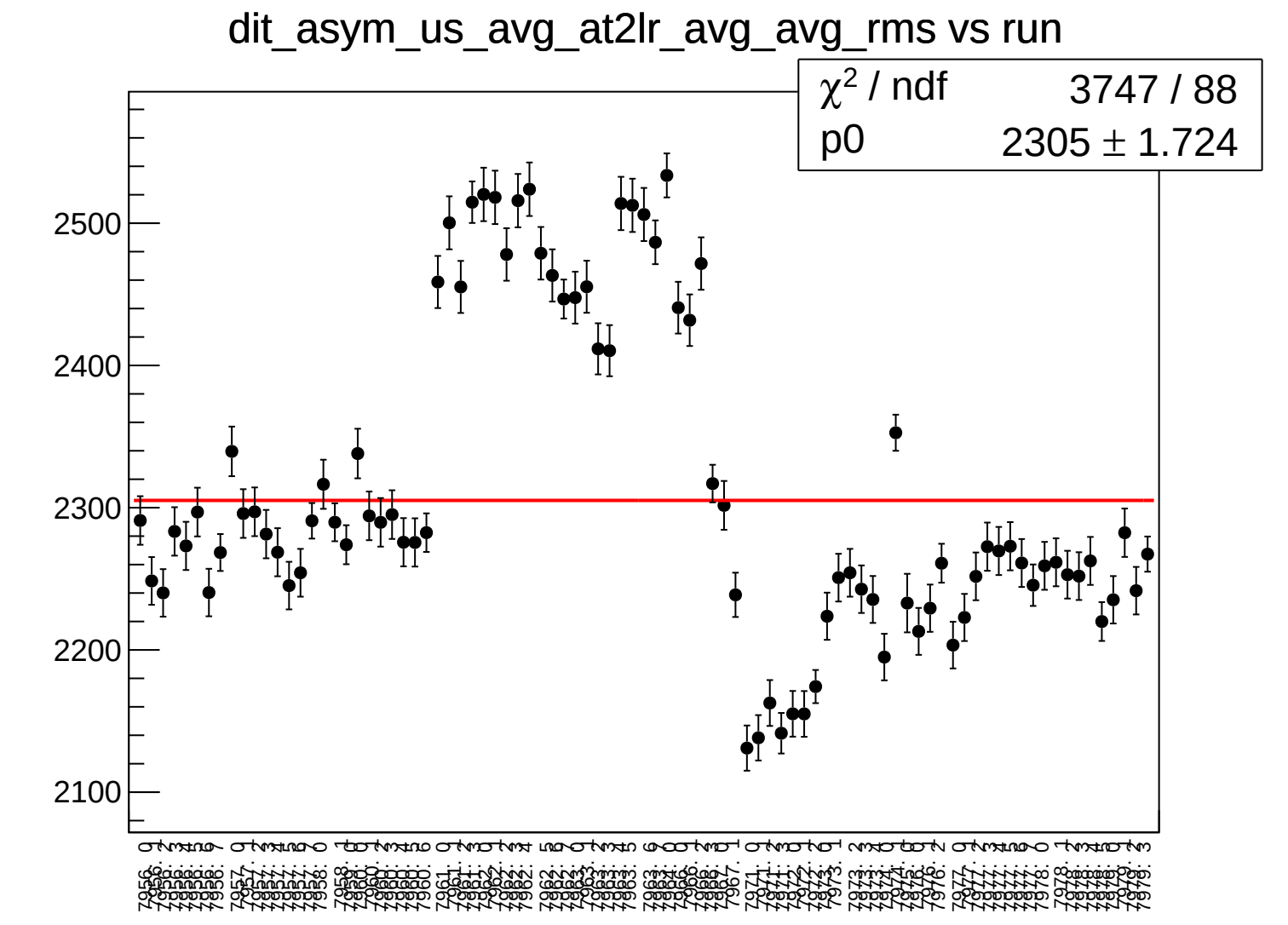

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1094 / 88
p0 2202 ± 1.646
2300
2250
2200
2150
2100
2050
2000

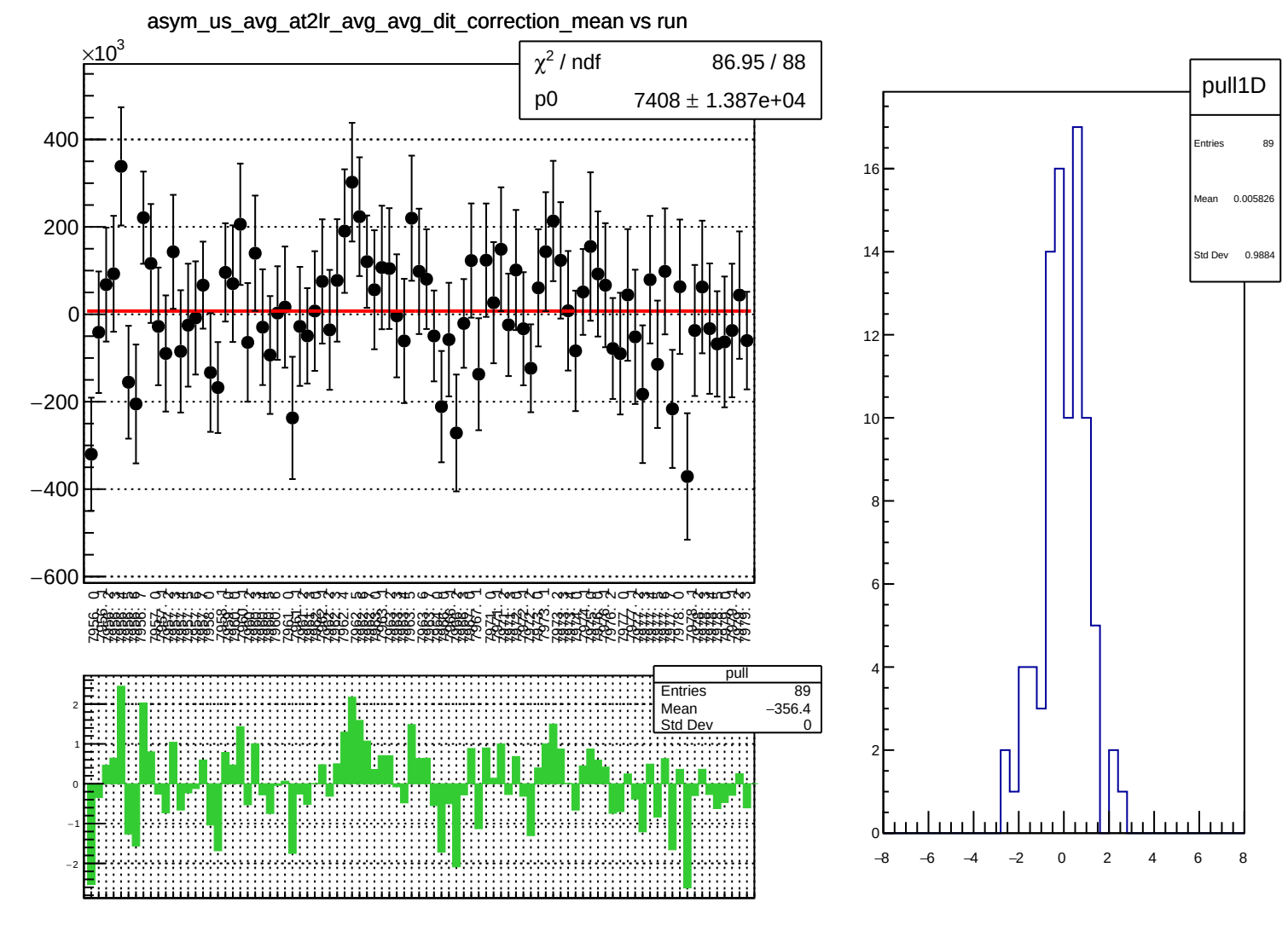

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.88 / 88
p0 8800 ± 1.369e+04
400
200
0
−200
−400
−600
pull
Entries 89
Mean −530.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.00399
Std Dev 0.9823
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

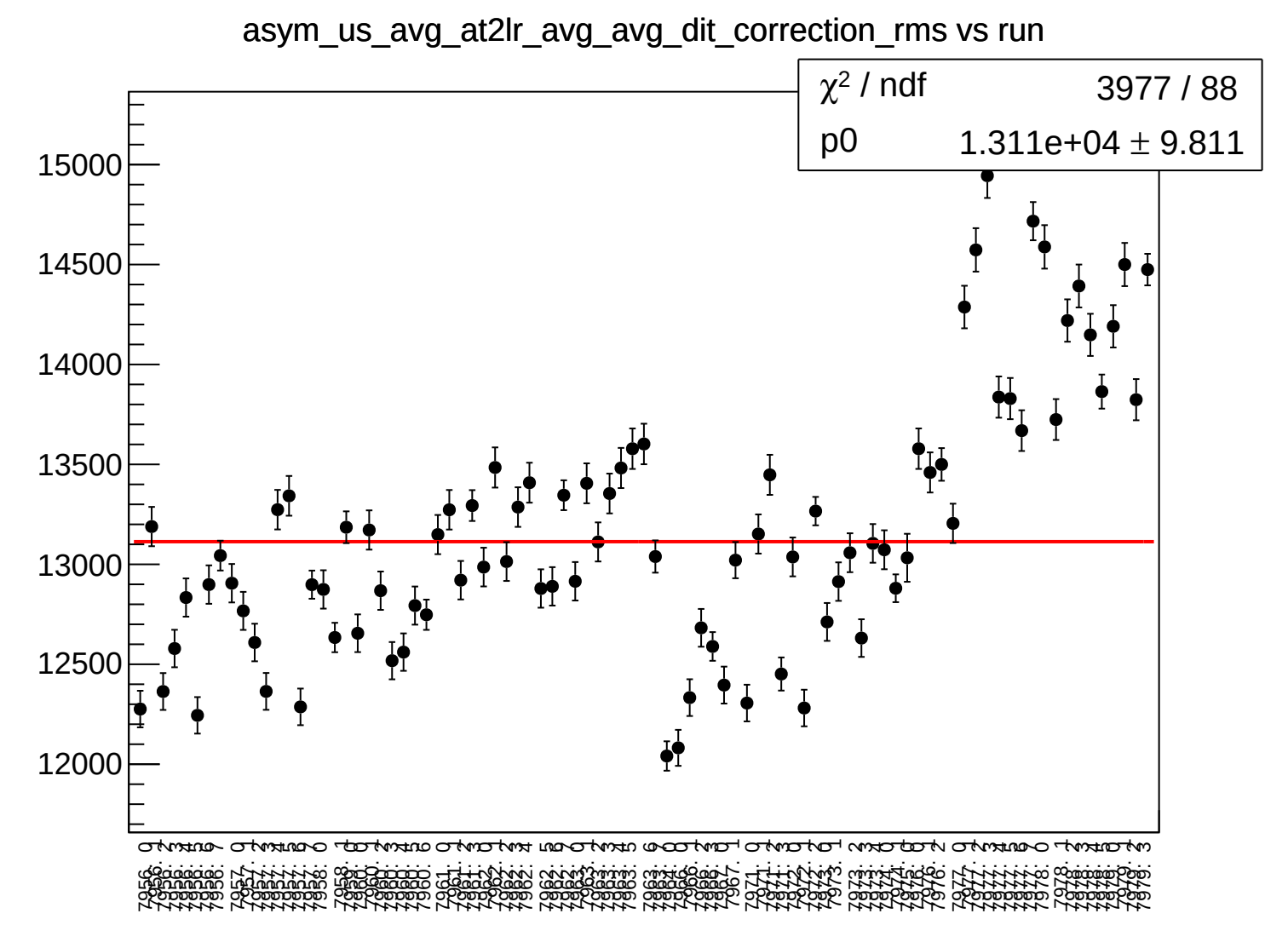

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3619 / 88
p0 1.294e+04 ± 9.678
14500
14000
13500
13000
12500
12000
11500

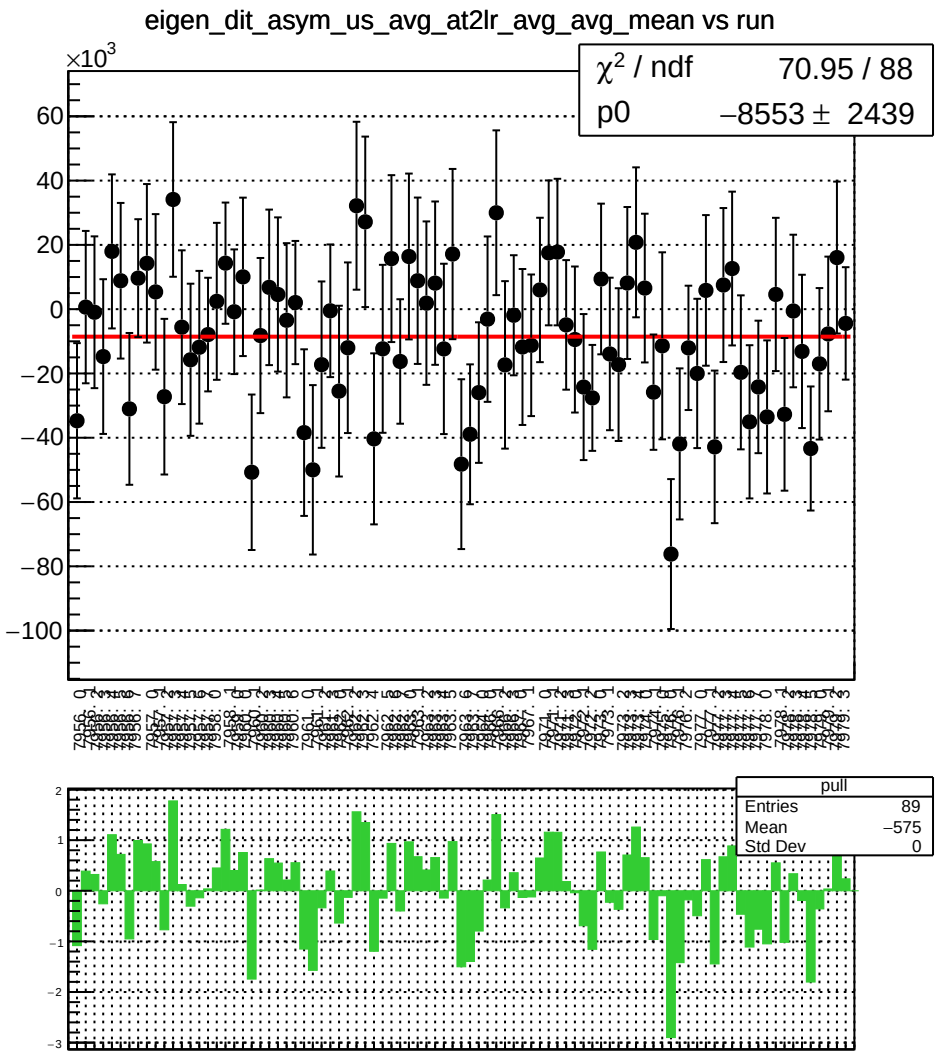

dit_asym_us_avg_at2lr_avg_avg_mean vs run
$\chi^2$ / ndf 70.95 / 88
p0 −8554 ± 2439
×10^3
pull
Entries 89
Mean −575
Std Dev 0

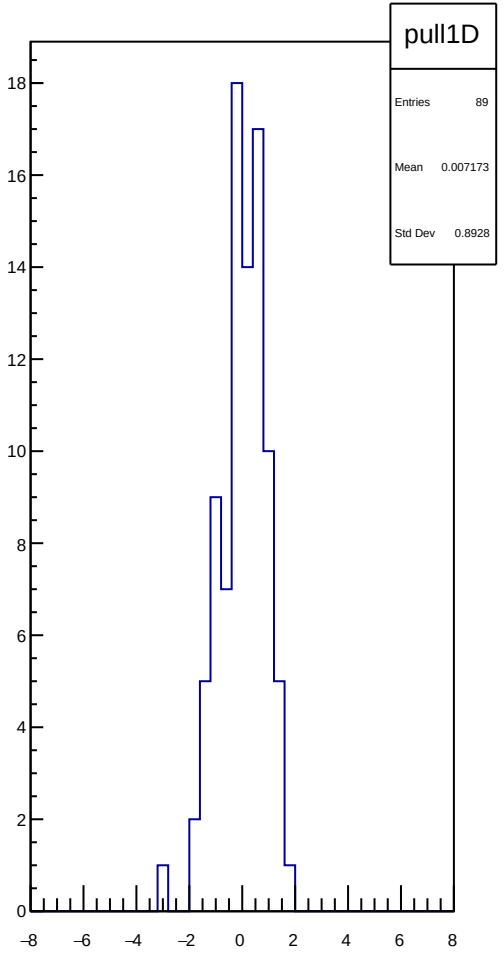

pull1D
Entries 89
Mean 0.007172
Std Dev 0.8928

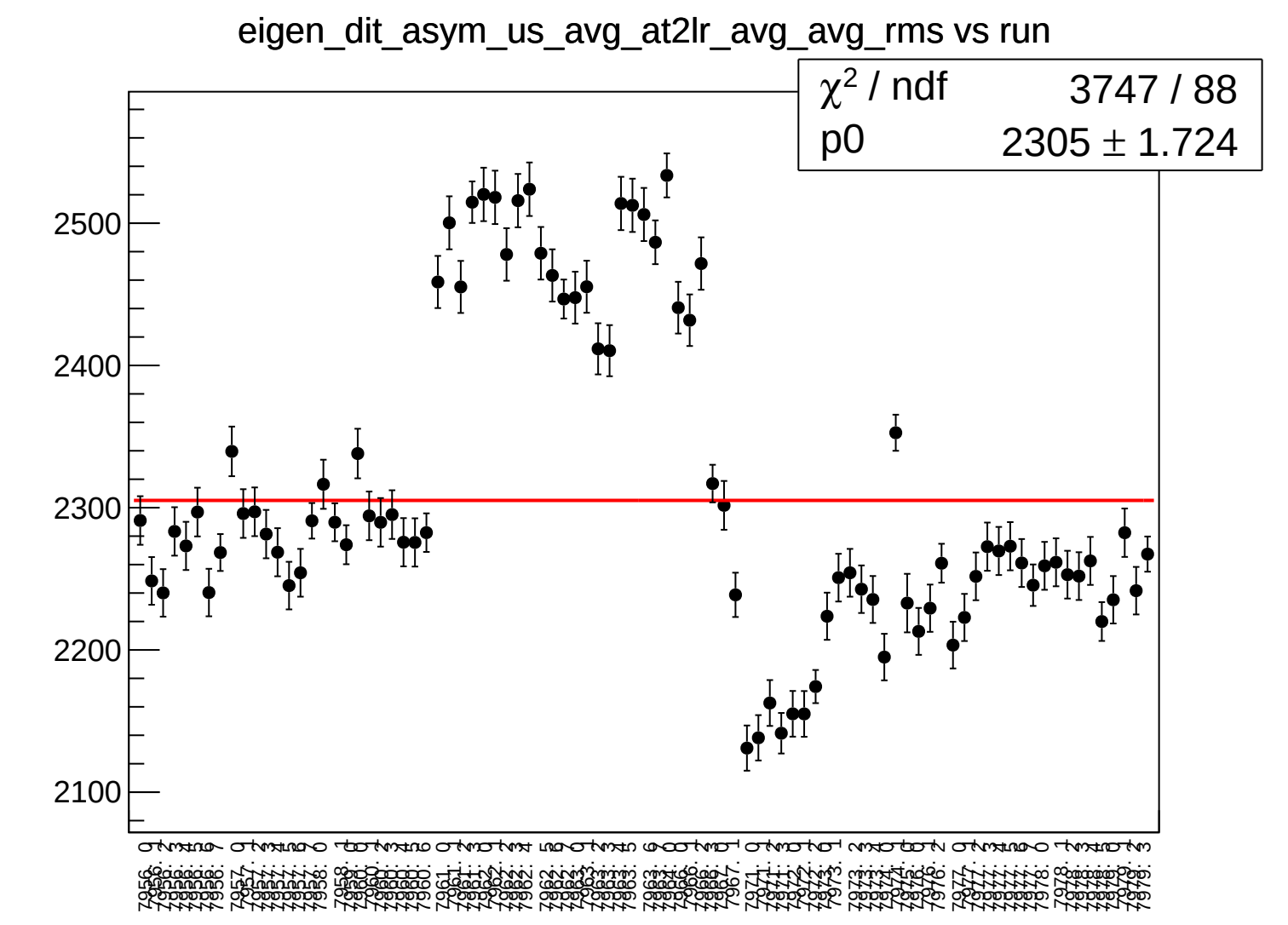

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3747 / 88
p0 2305 ± 1.724
2500
2400
2300
2200
2100

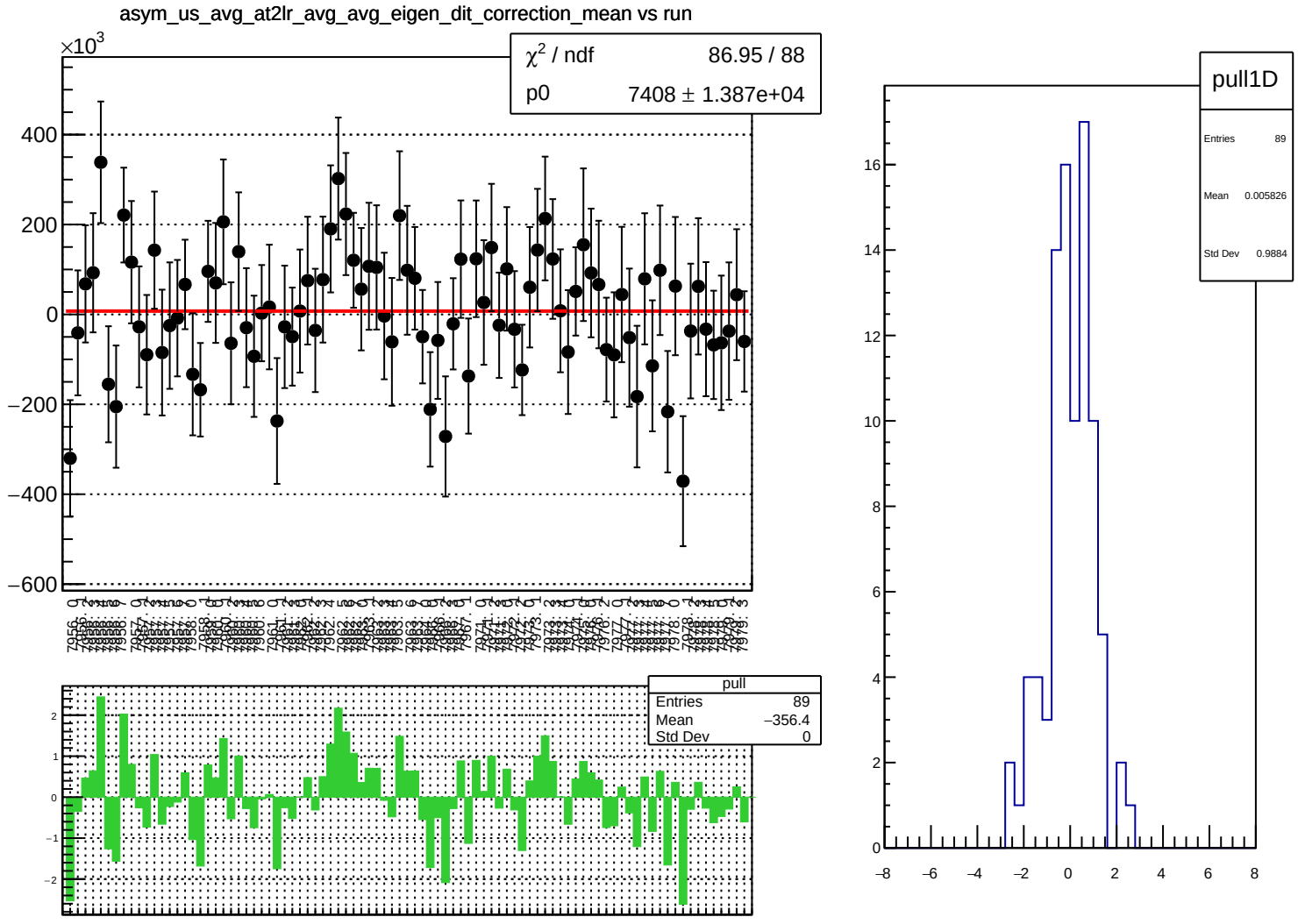

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.95 / 88
p0 7408 ± 1.387e+04
400
200
0
−200
−400
−600
pull
Entries 89
Mean −356.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.005826
Std Dev 0.9884
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

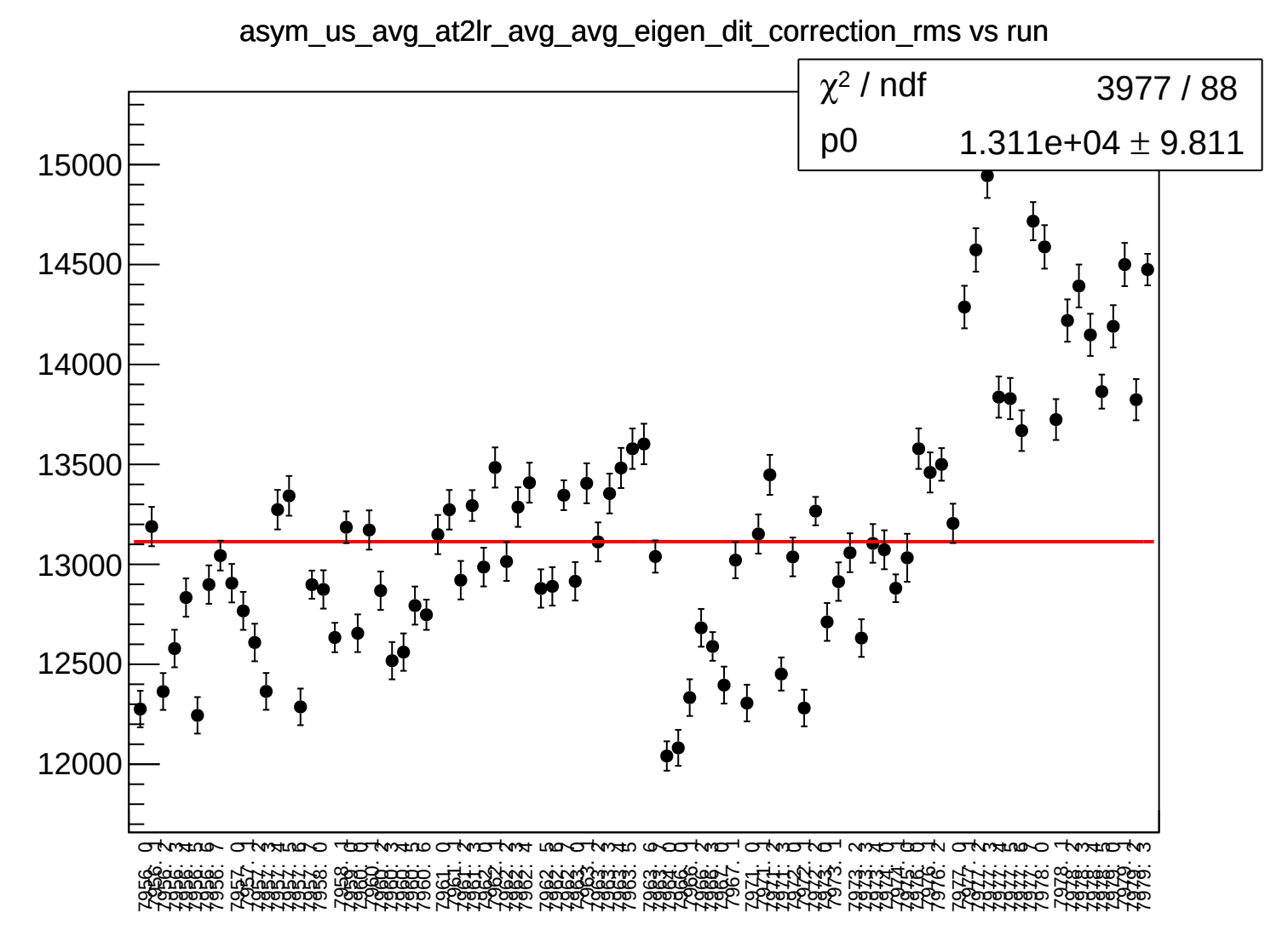

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3977 / 88
p0 1.311e+04 ± 9.811
15000
14500
14000
13500
13000
12500
12000

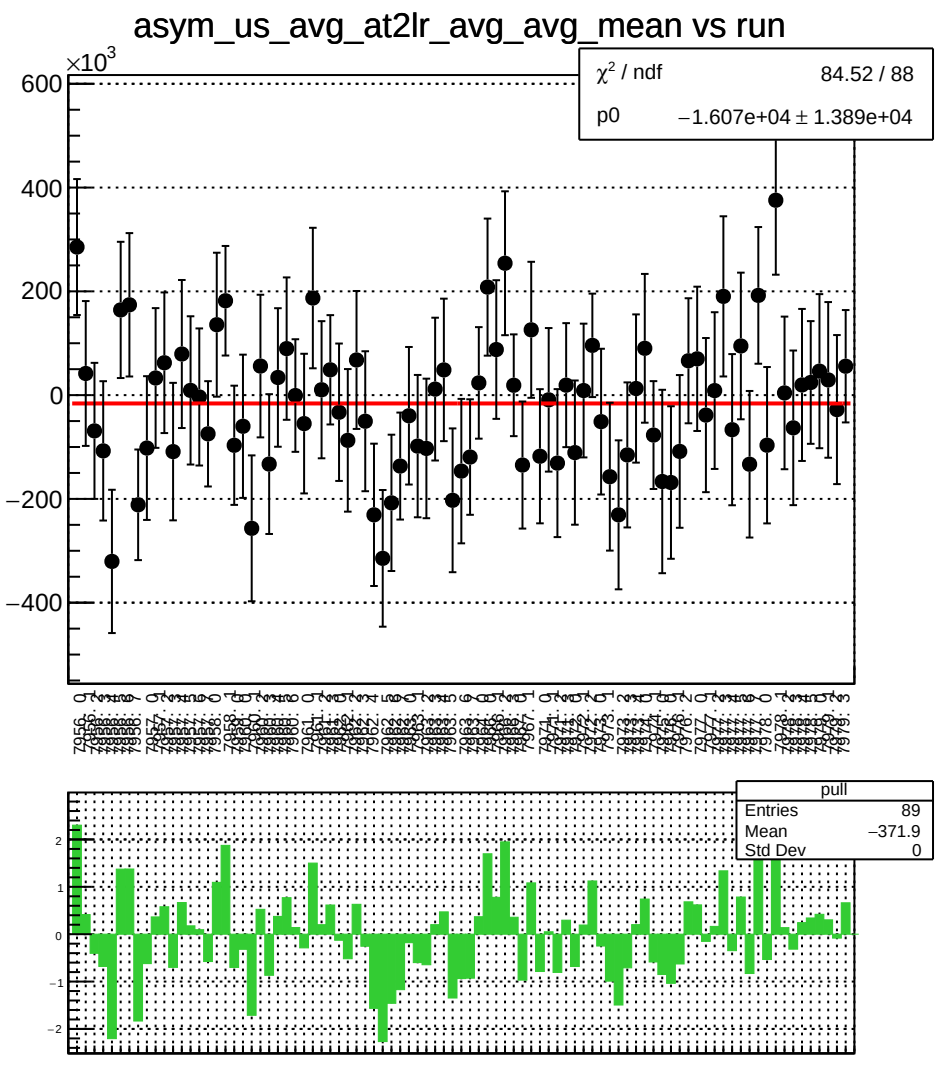

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 70.95 / 88
p0 −8553 ± 2439
pull
Entries 89
Mean −575
Std Dev 0

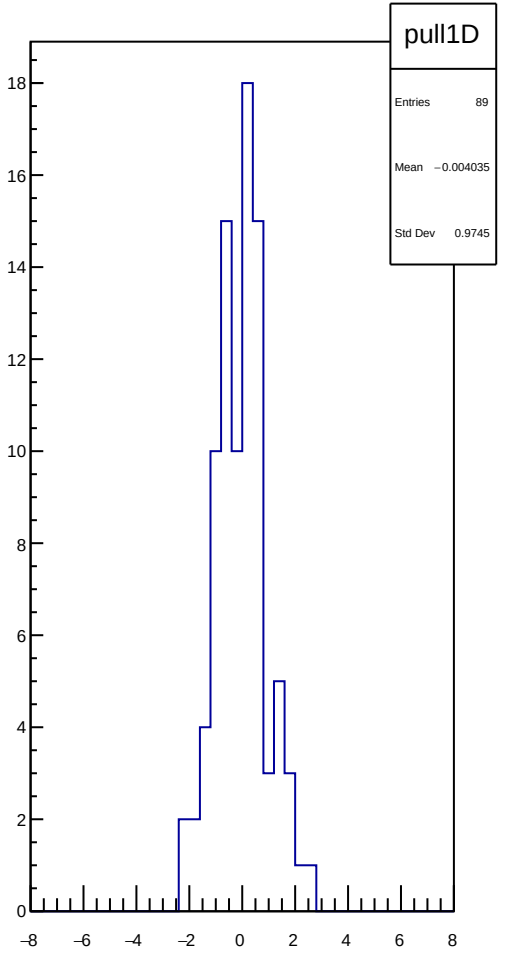

pull1D
Entries 89
Mean 0.007173
Std Dev 0.8928

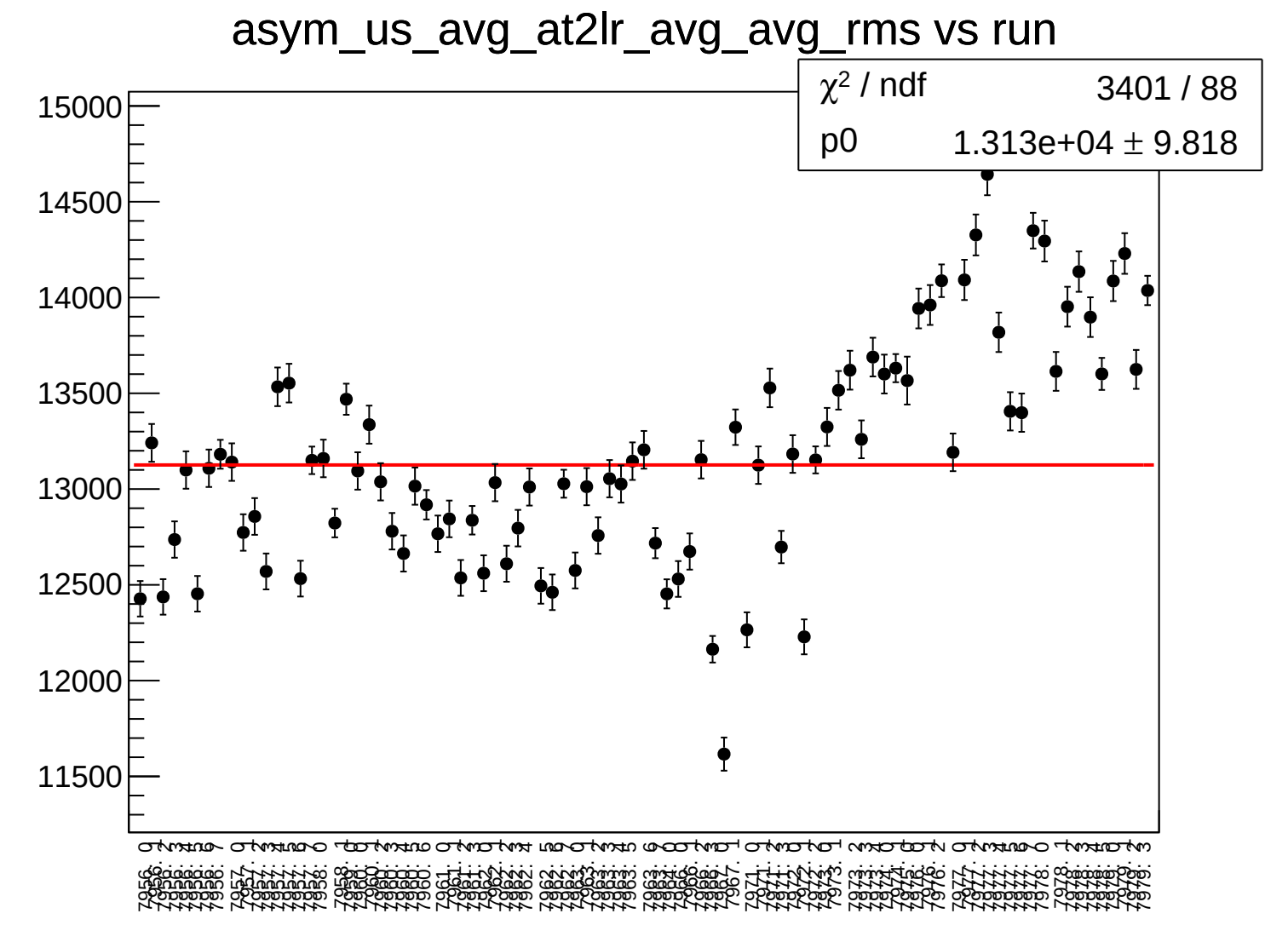

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3747 / 88
p0 2305 ± 1.724
2500
2400
2300
2200
2100

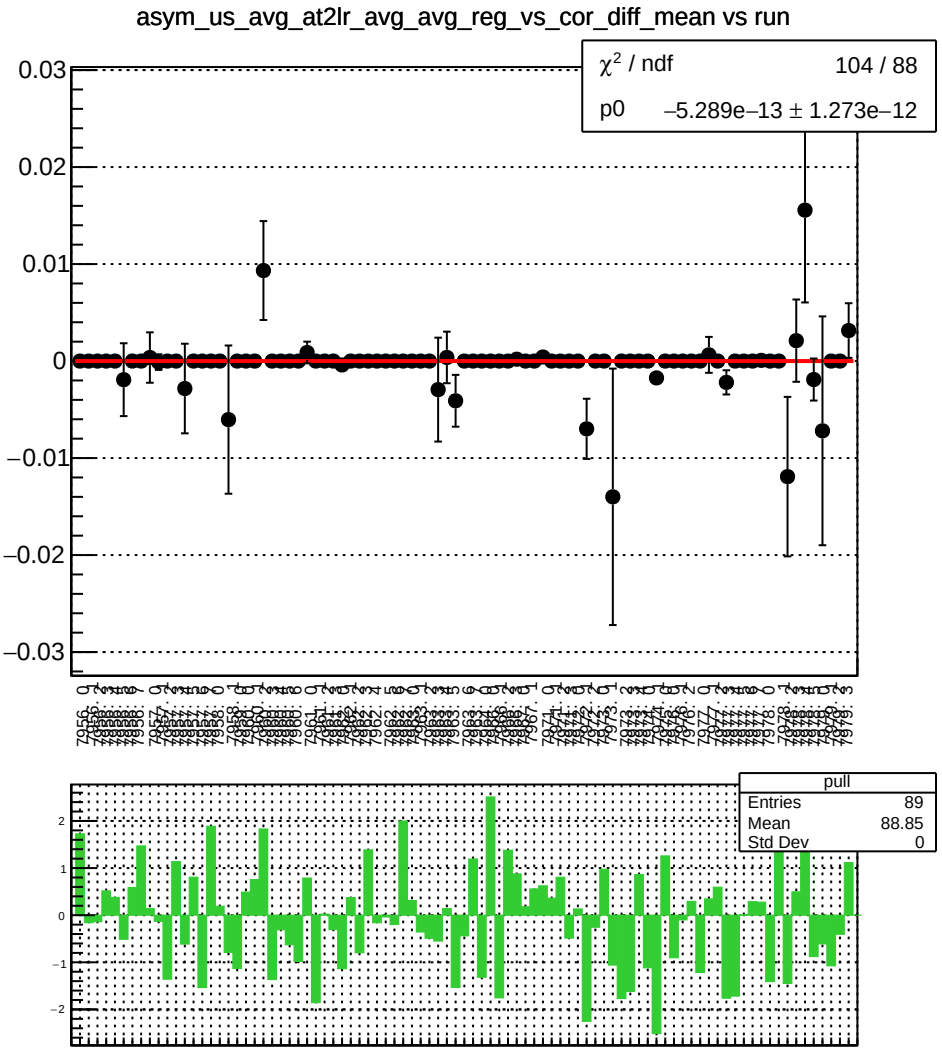

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.95 / 88
p0 7408 ± 1.387e+04
400
200
0
−200
−400
−600
pull
Entries 89
Mean −356.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.005826
Std Dev 0.9884
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

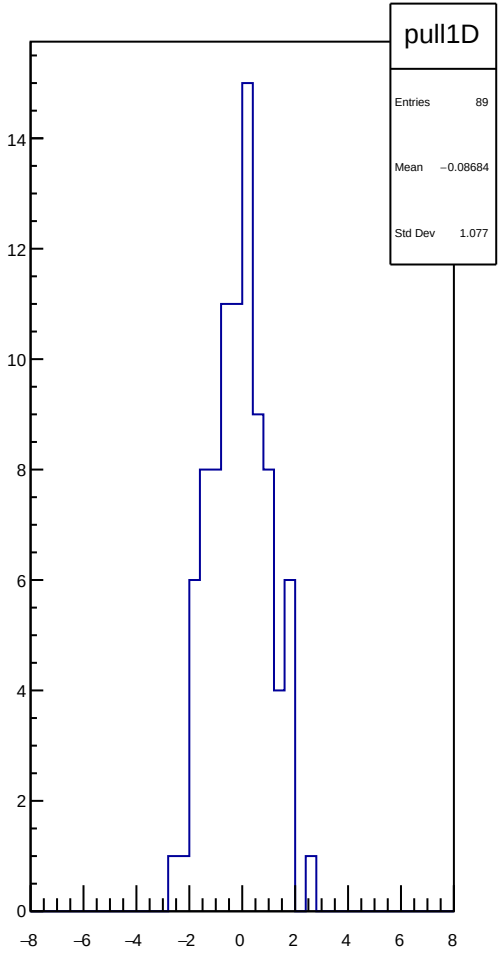

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3977 / 88
p0 1.311e+04 ± 9.811
15000
14500
14000
13500
13000
12500
12000

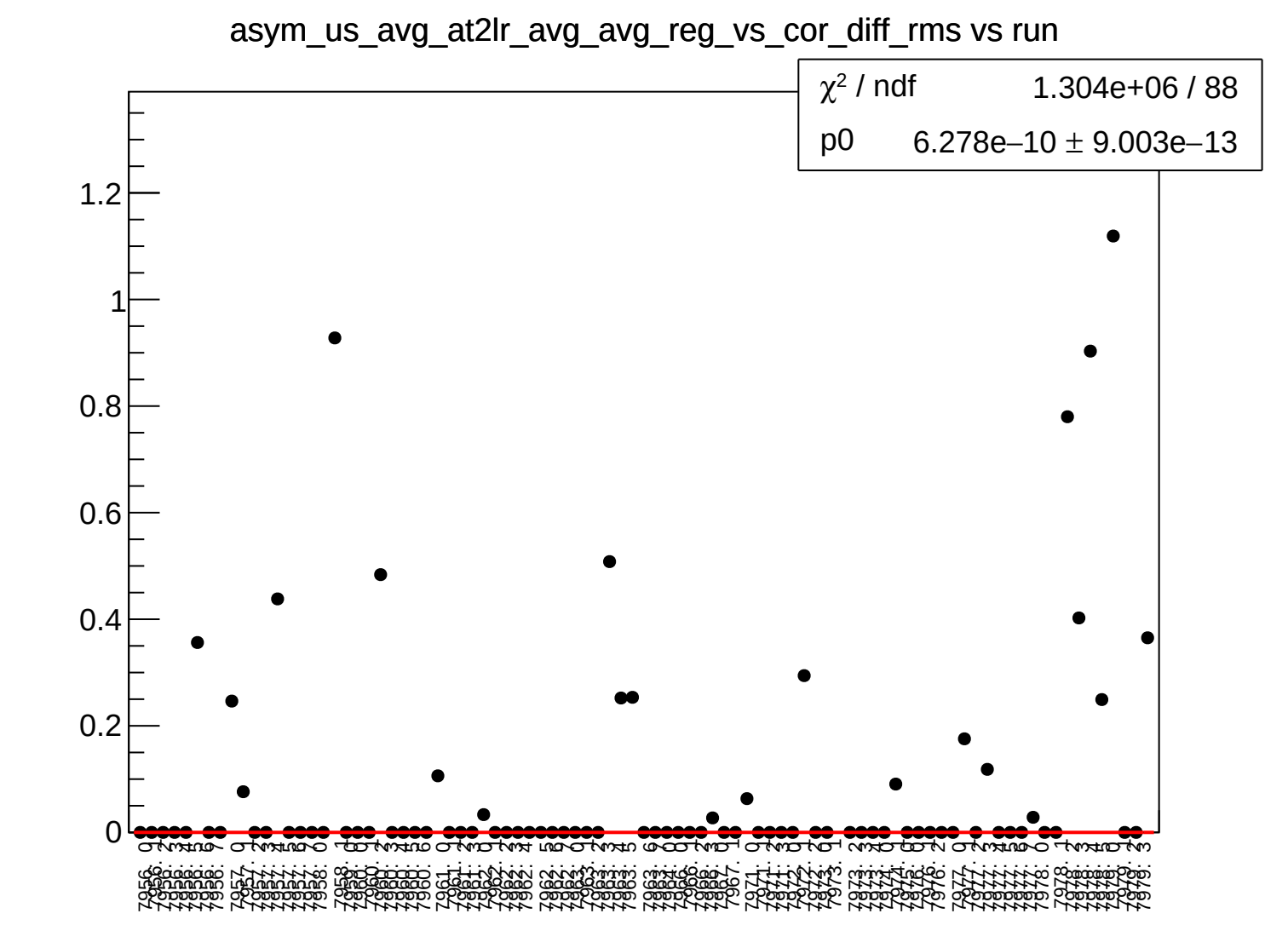

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 84.52 / 88
p0 −1.607e+04 ± 1.389e+04
pull
Entries 89
Mean −371.9
Std Dev 0
2
1
0
−1
−2

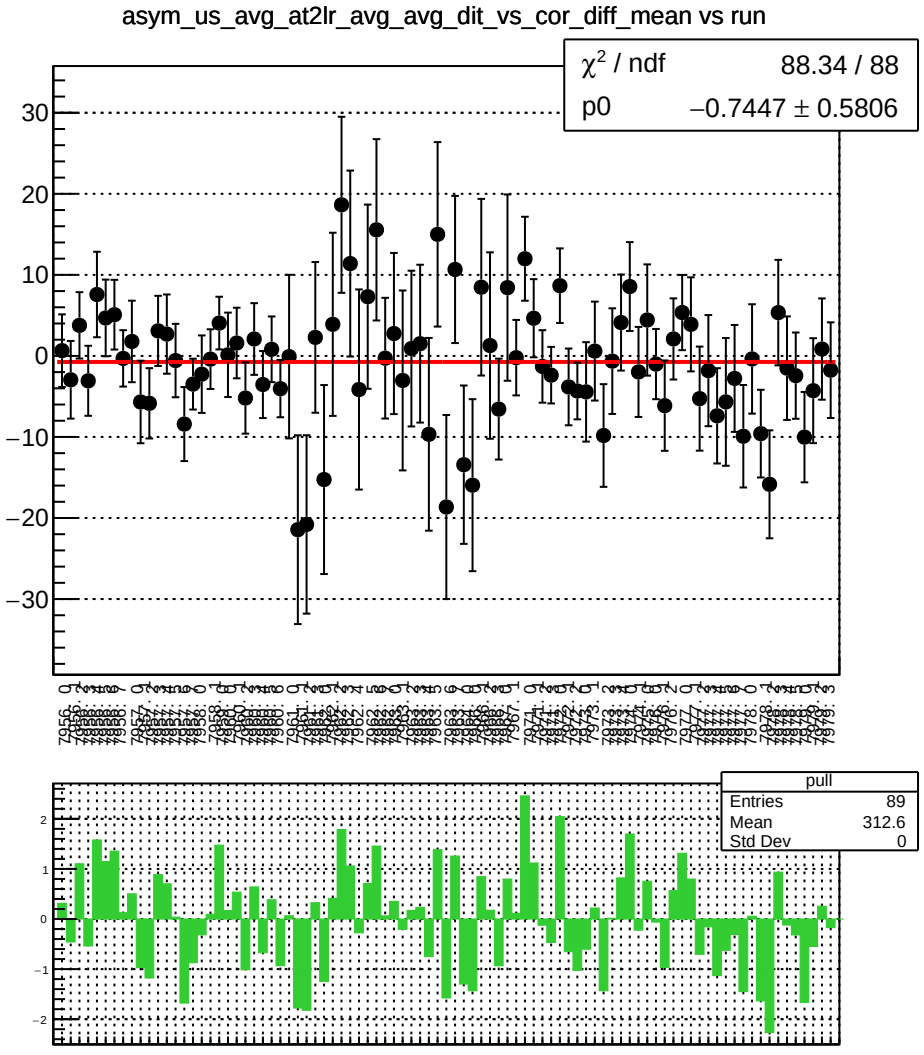

pull1D
Entries 89
Mean −0.004035
Std Dev 0.9745
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

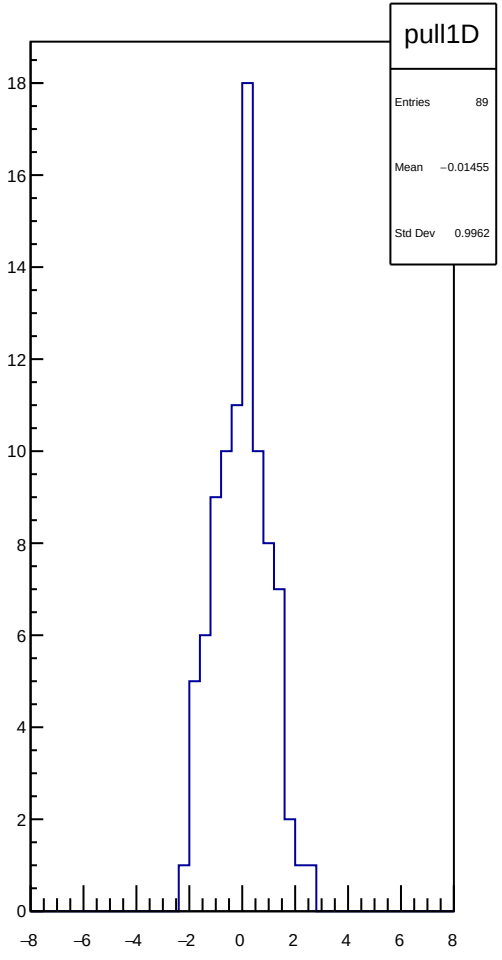

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3401 / 88
p0 1.313e+04 ± 9.818
15000
14500
14000
13500
13000
12500
12000
11500

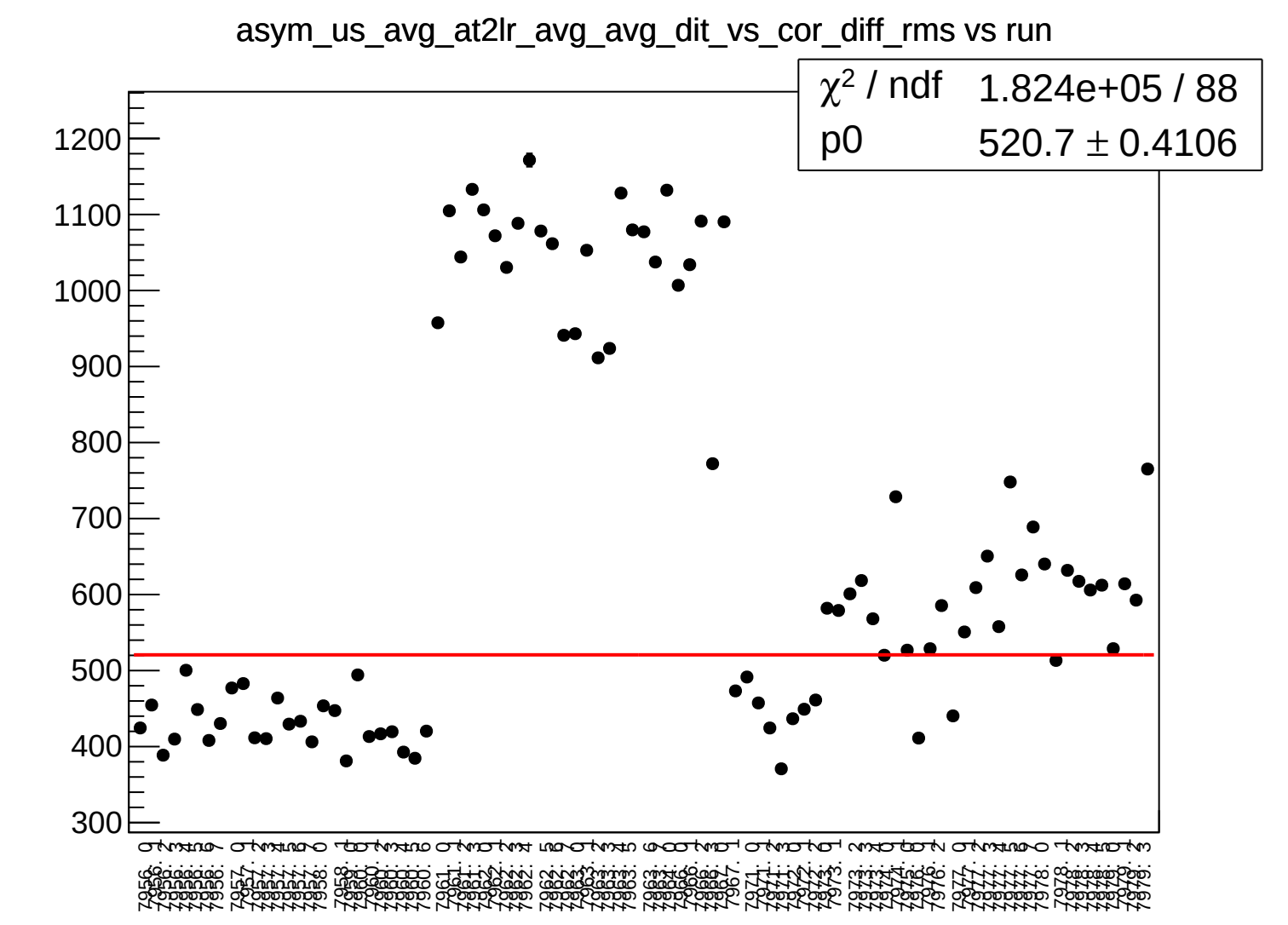

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104 / 88
p0 −5.289e−13 ± 1.273e−12
pull
Entries 89
Mean 88.85
Std Dev 0

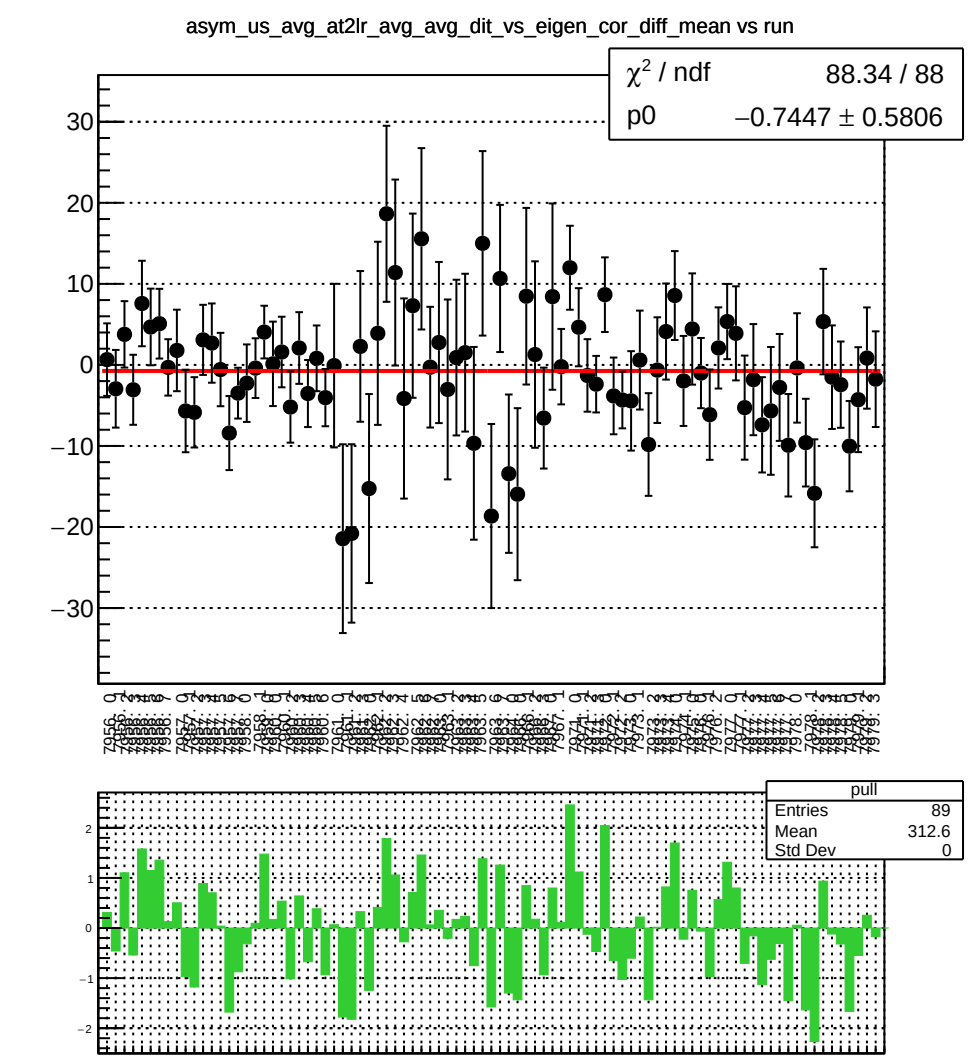

pull1D
Entries 89
Mean −0.08684
Std Dev 1.077

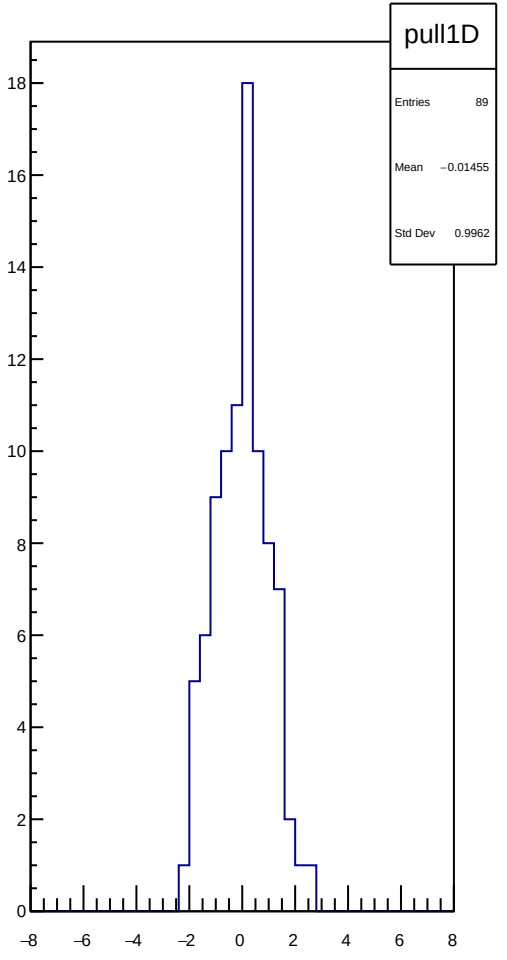

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.304e+06 / 88
p0 6.278e−10 ± 9.003e−13
1.2
1
0.8
0.6
0.4
0.2
0

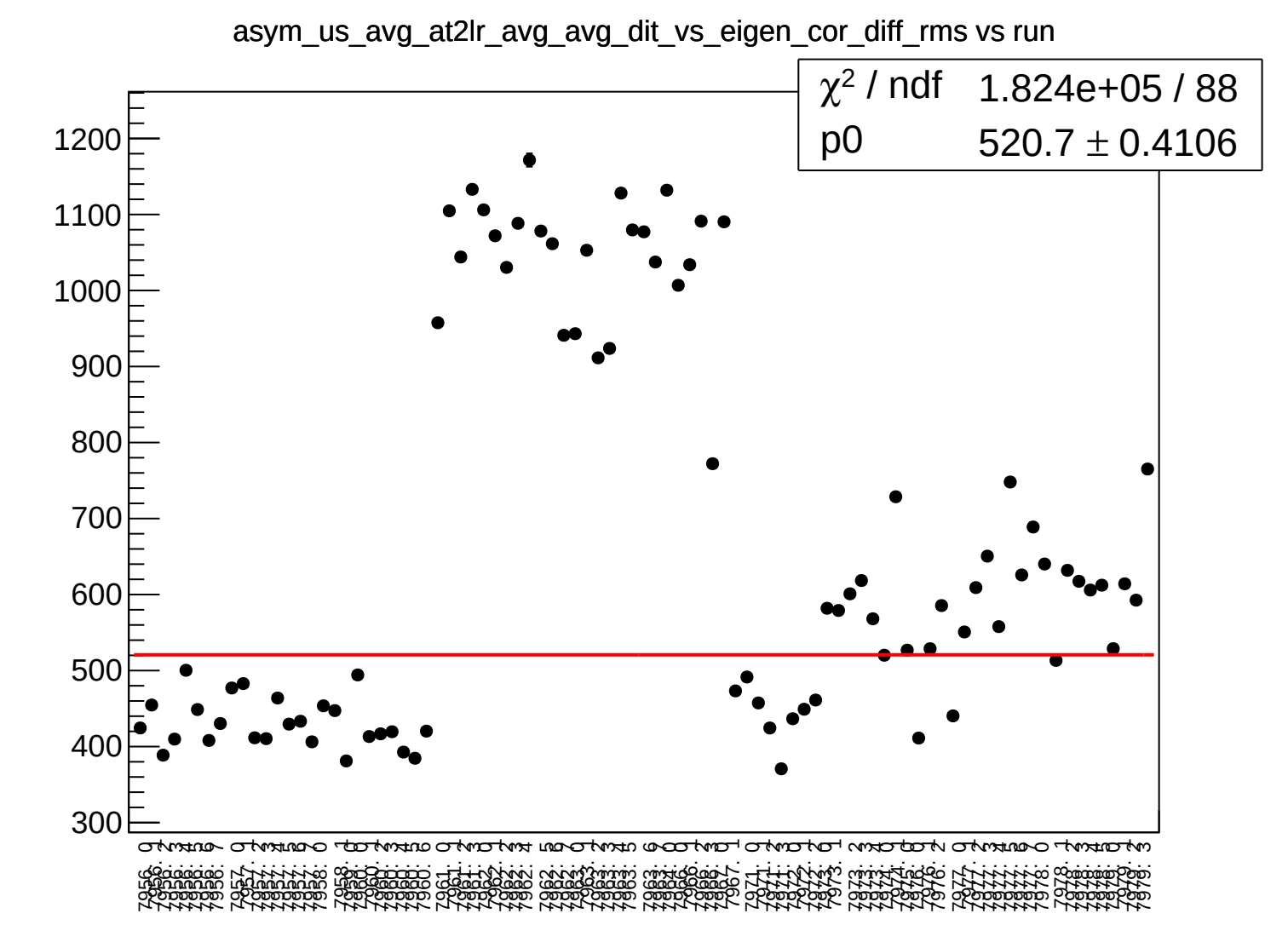

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.34 / 88
p0 −0.7447 ± 0.5806
pull
Entries 89
Mean 312.6
Std Dev 0

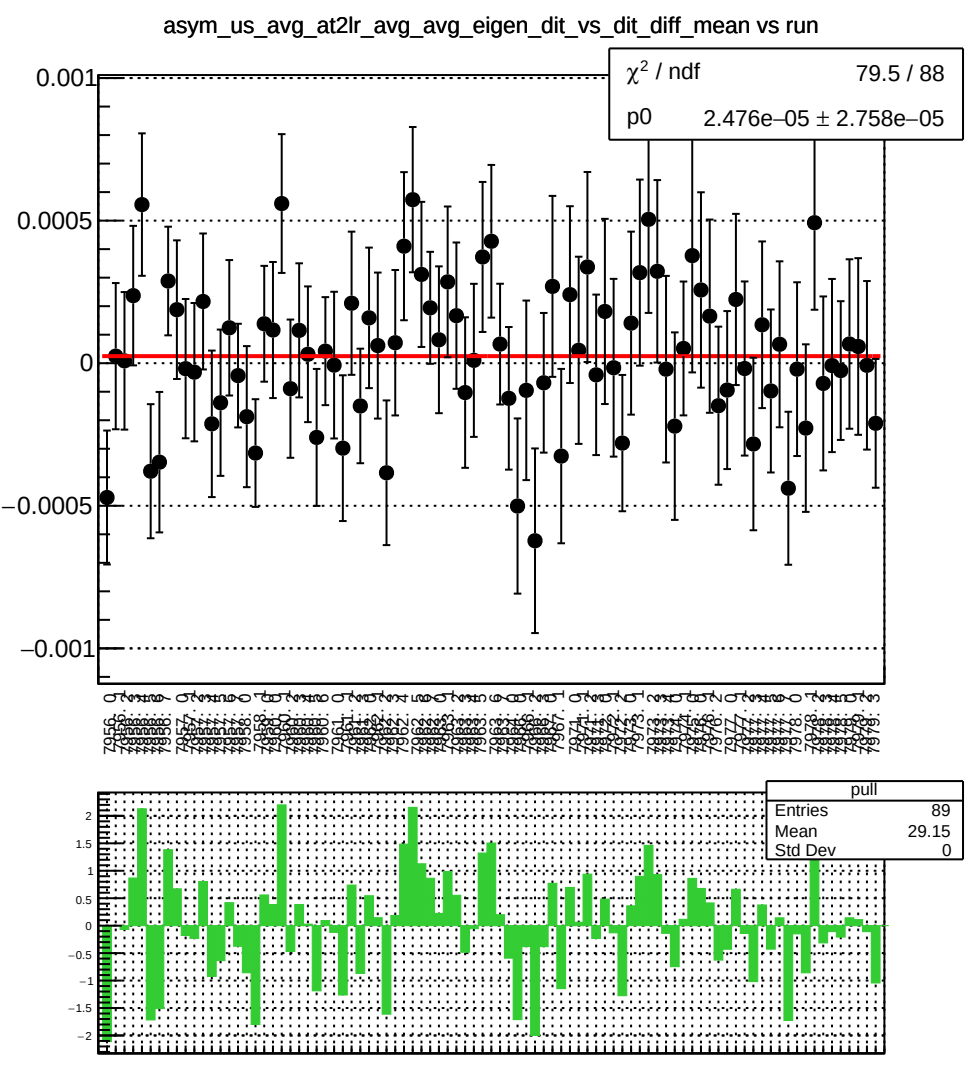

pull1D
Entries 89
Mean −0.01455
Std Dev 0.9962

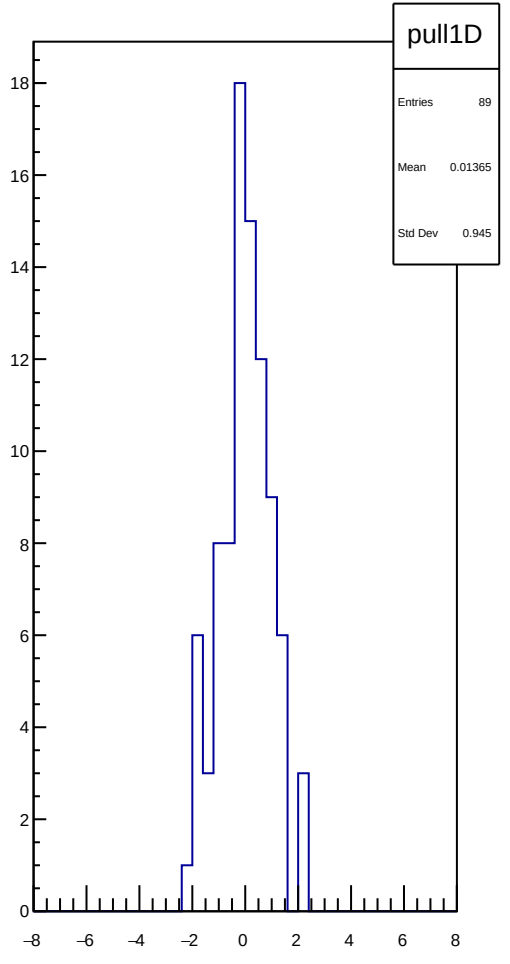

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.824e+05 / 88
p0 520.7 ± 0.4106
1200
1100
1000
900
800
700
600
500
400
300

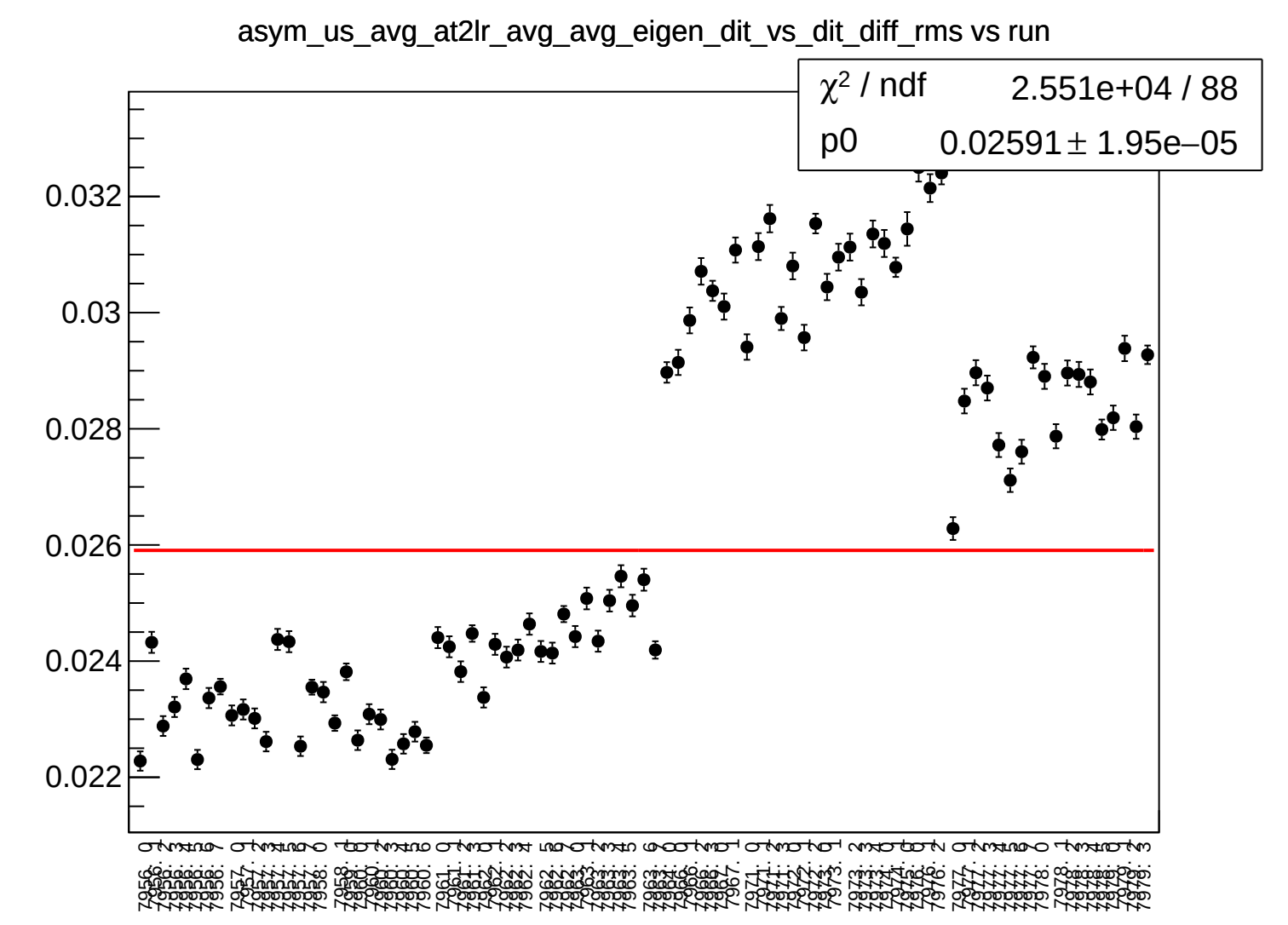

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.34 / 88
p0 −0.7447 ± 0.5806
pull
Entries 89
Mean 312.6
Std Dev 0

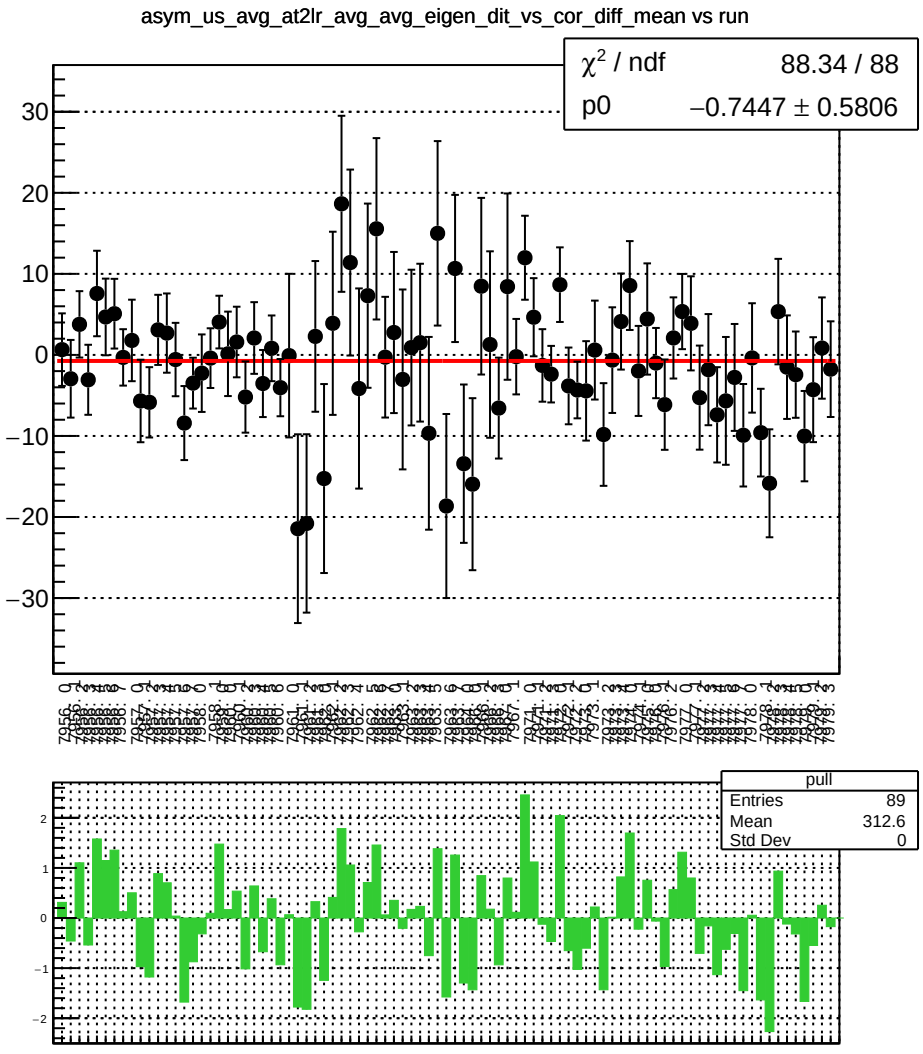

pull1D
Entries 89
Mean −0.01455
Std Dev 0.9962

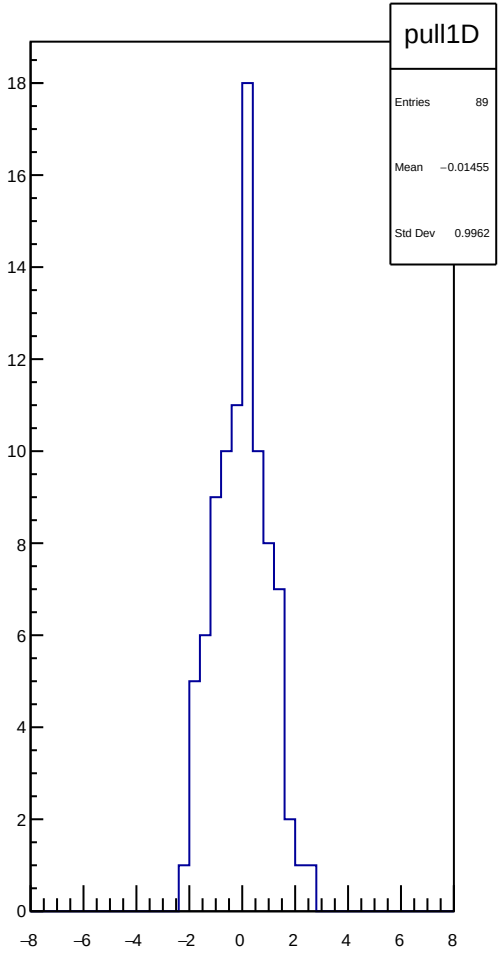

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.824e+05 / 88
p0 520.7 ± 0.4106
1200
1100
1000
900
800
700
600
500
400
300

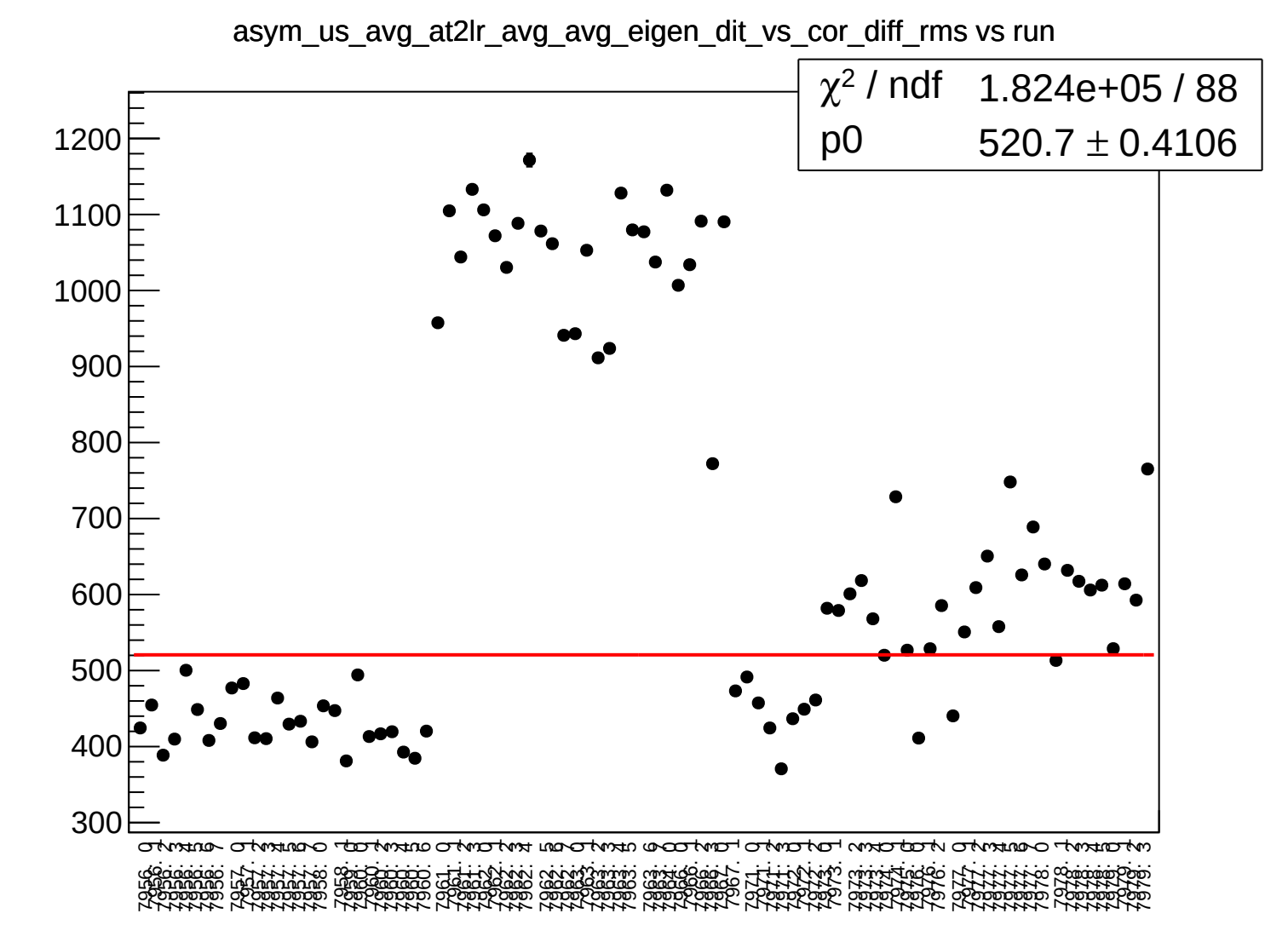

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 79.5 / 88
p0 2.476e−05 ± 2.758e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 29.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

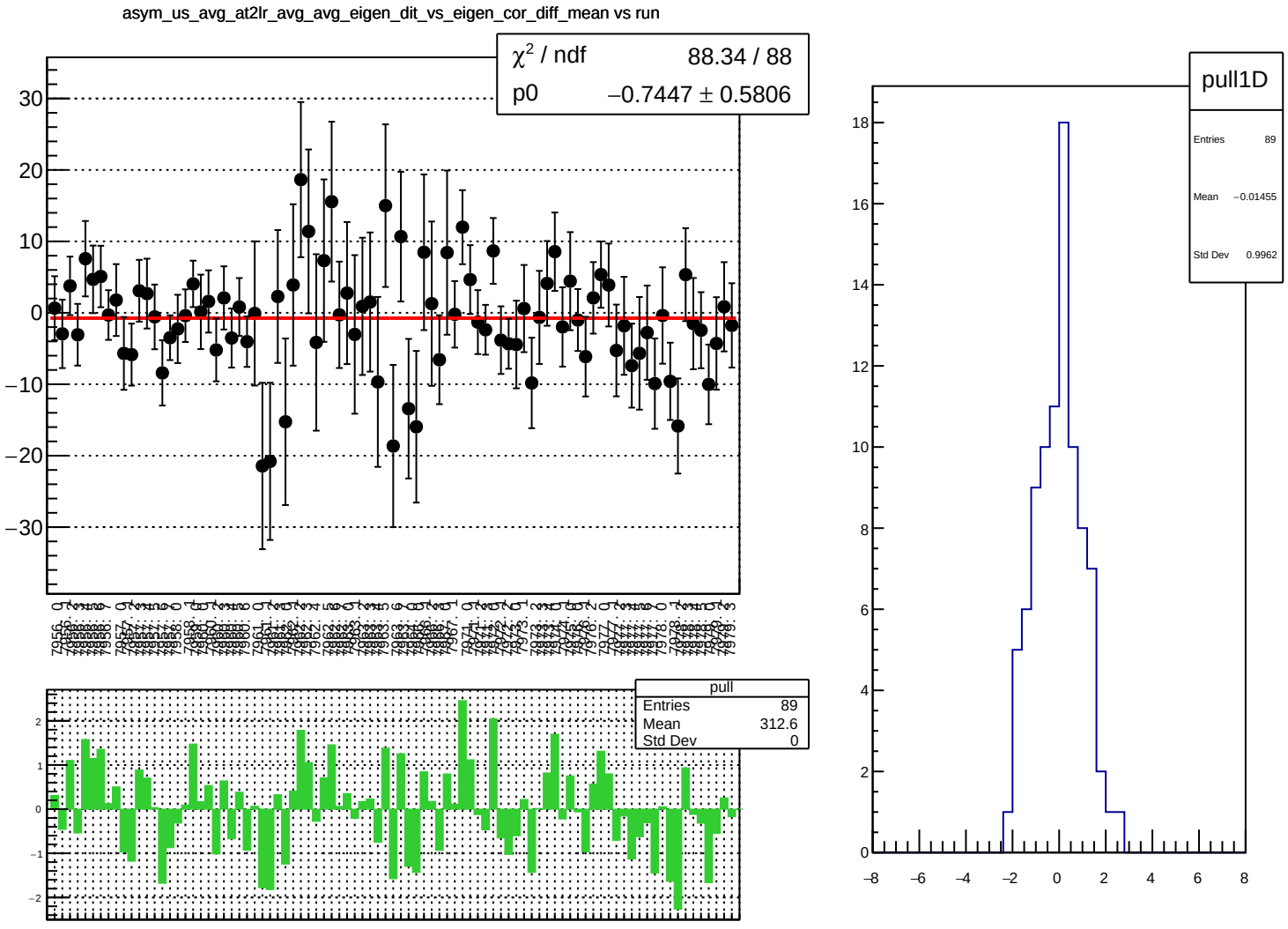

pull1D
Entries 89
Mean 0.01365
Std Dev 0.945
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

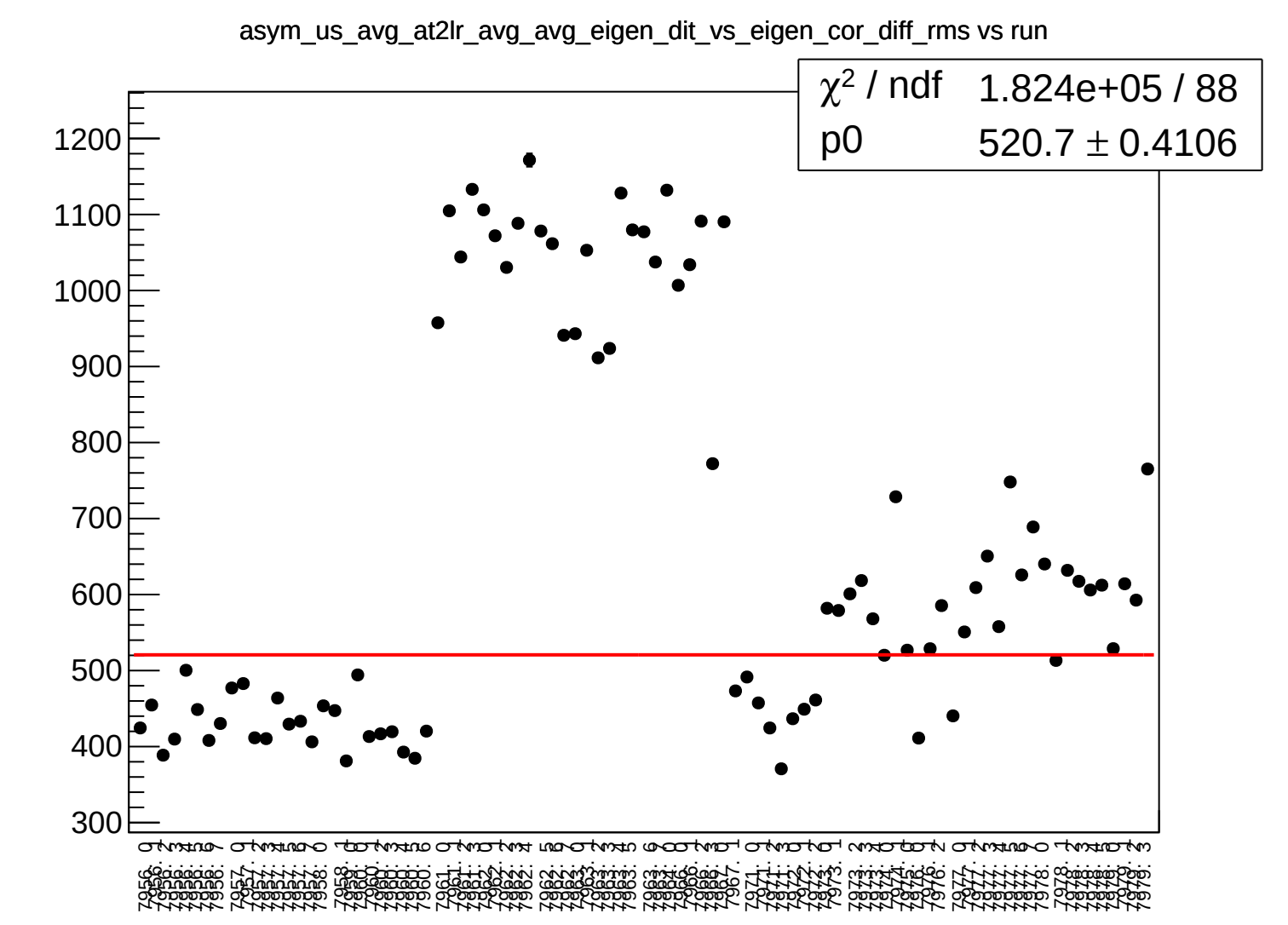

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.551e+04 / 88
p0 0.02591 ± 1.95e−05
0.032
0.03
0.028
0.026
0.024
0.022

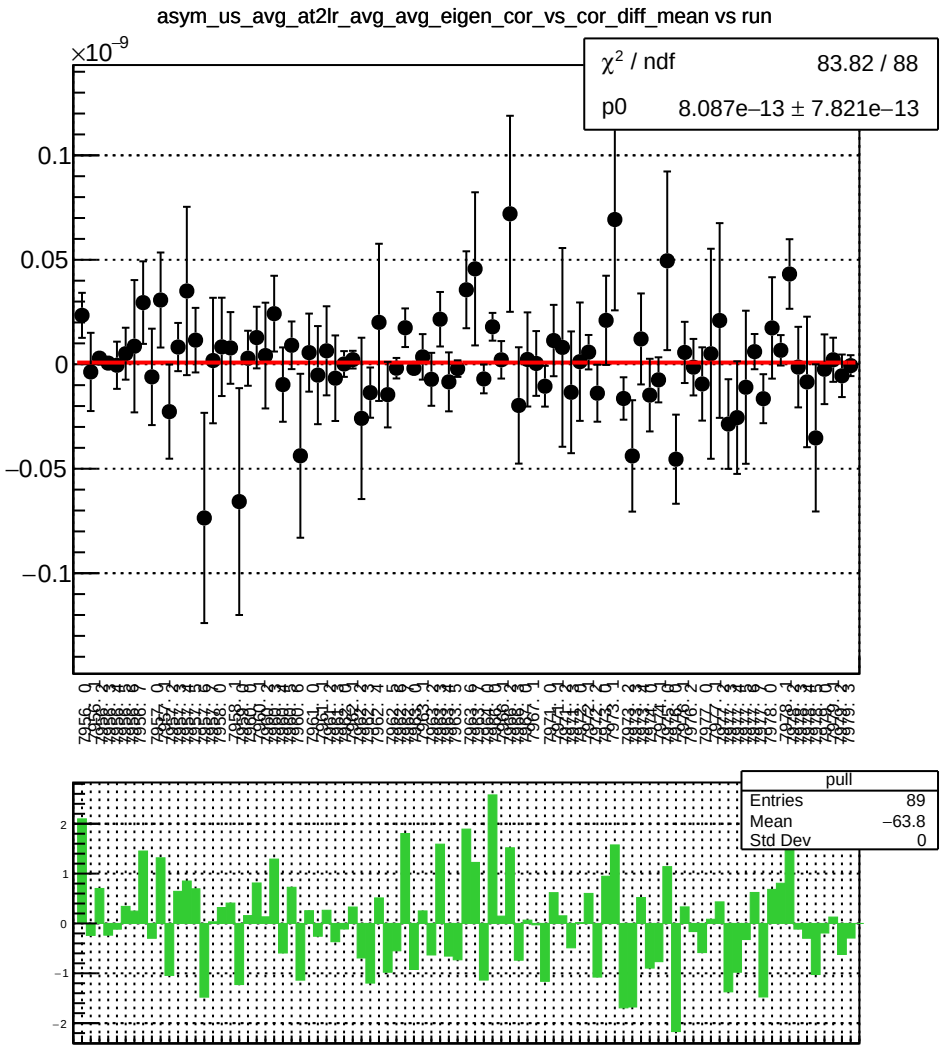

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.34 / 88
p0 −0.7447 ± 0.5806
pull
Entries 89
Mean 312.6
Std Dev 0

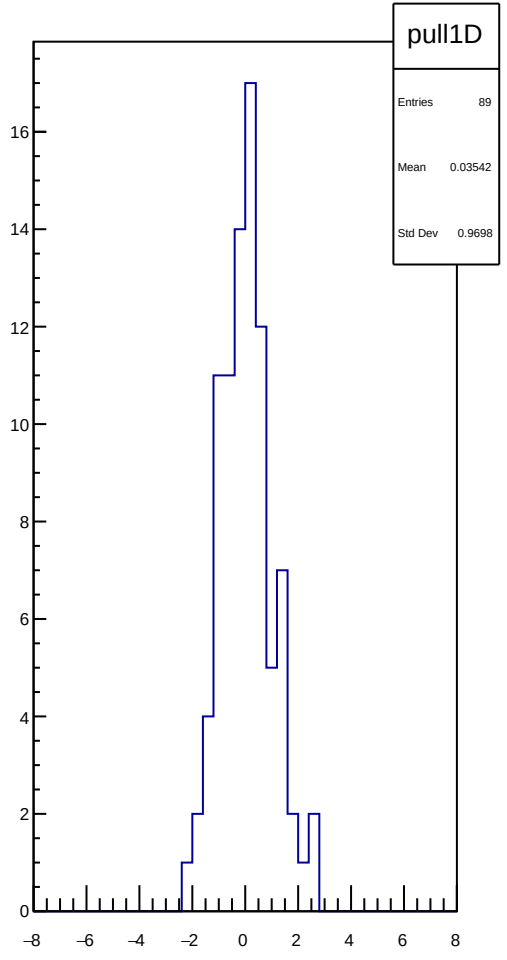

pull1D
Entries 89
Mean −0.01455
Std Dev 0.9962

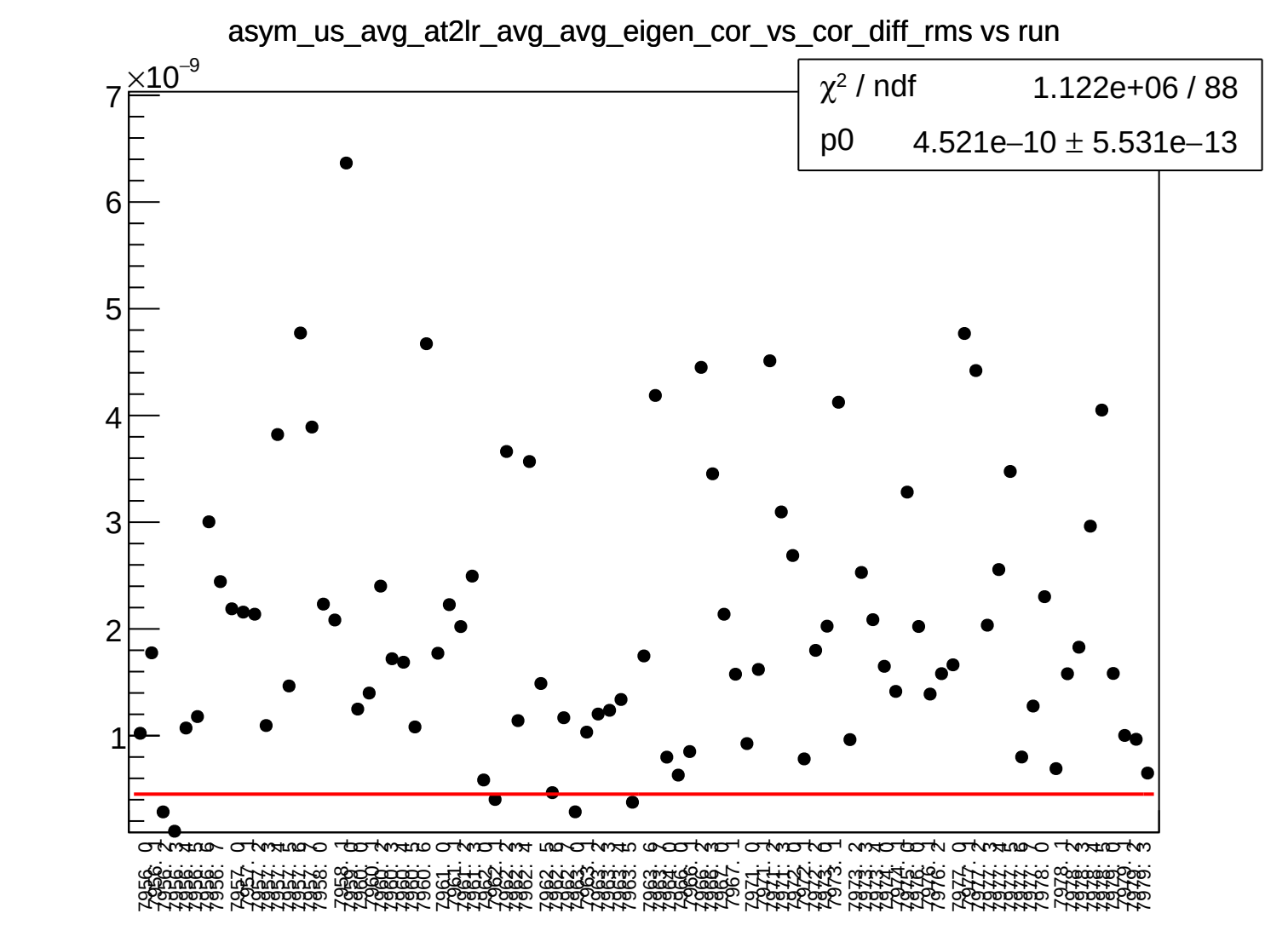

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.824e+05 / 88
p0 520.7 ± 0.4106
1200
1100
1000
900
800
700
600
500
400
300

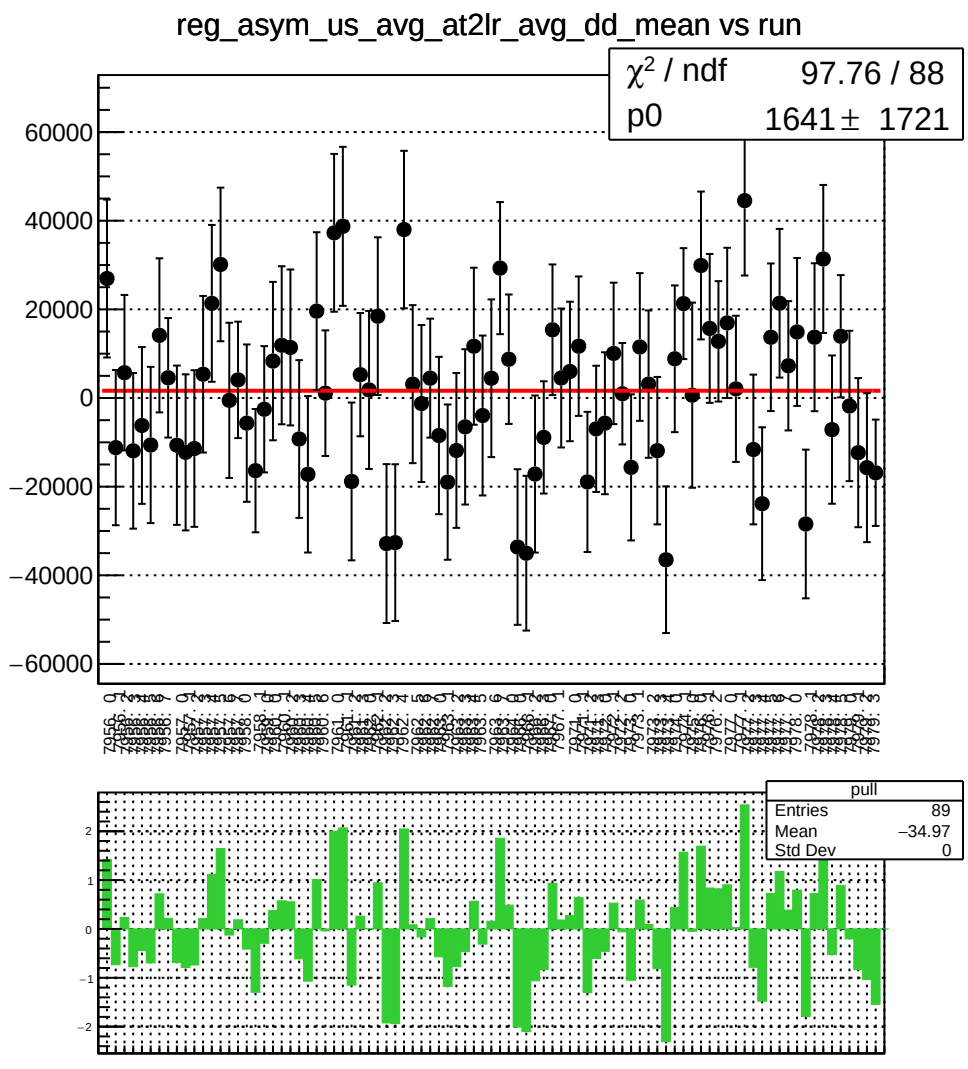

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.34 / 88
p0 −0.7447 ± 0.5806
pull
Entries 89
Mean 312.6
Std Dev 0
pull1D
Entries 89
Mean −0.01455
Std Dev 0.9962

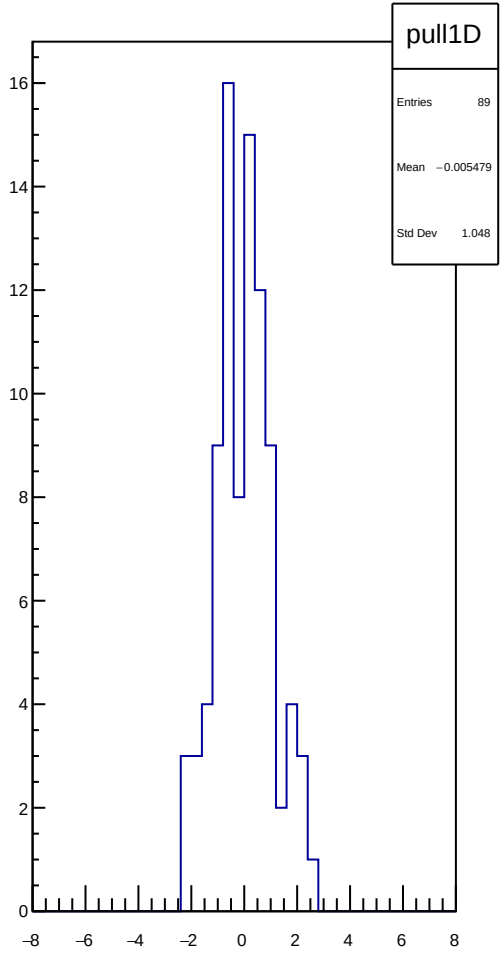

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.824e+05 / 88
p0 520.7 ± 0.4106
1200
1100
1000
900
800
700
600
500
400
300

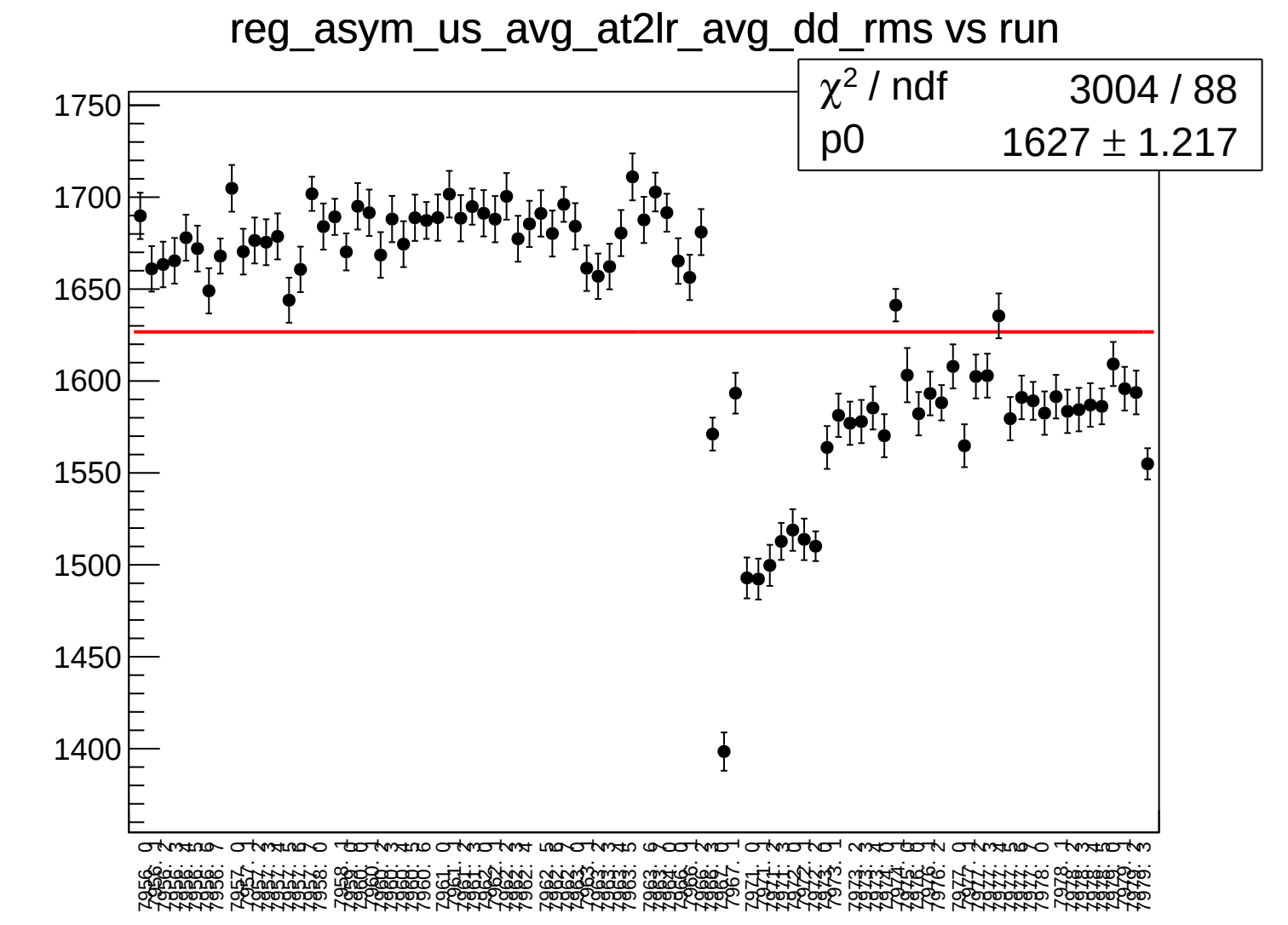

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 83.82 / 88
p0 8.087e−13 ± 7.821e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −63.8
Std Dev 0
2
1
0
−1
−2

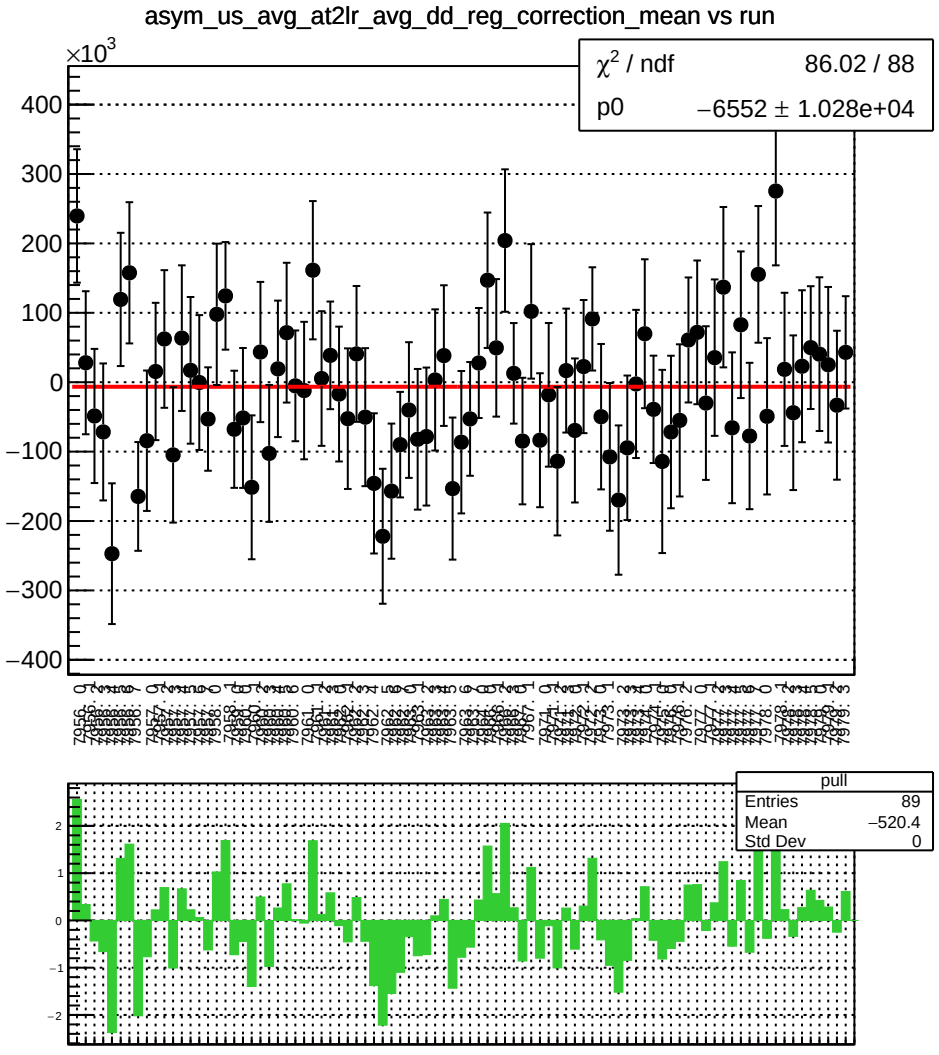

pull1D
Entries 89
Mean 0.03542
Std Dev 0.9698
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

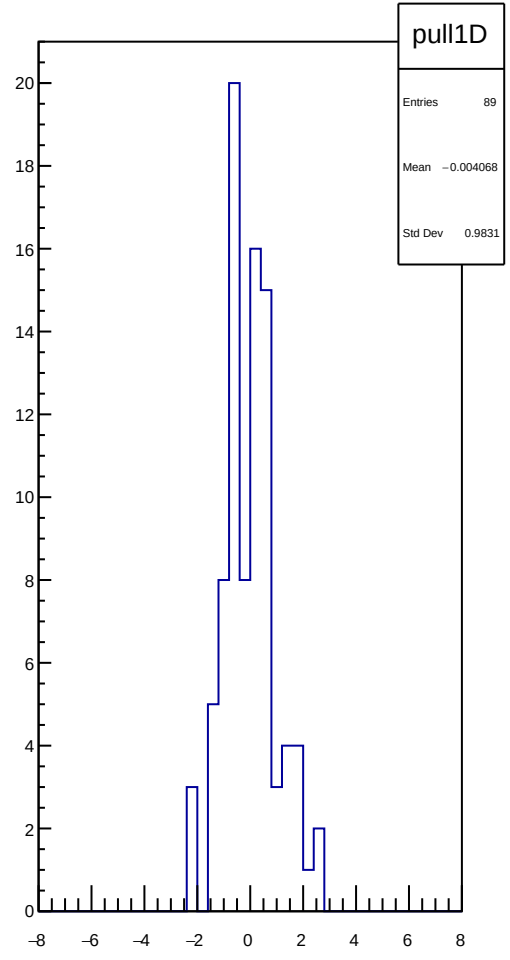

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.122e+06 / 88
p0 4.521e−10 ± 5.531e−13
7
6
5
4
3
2
1

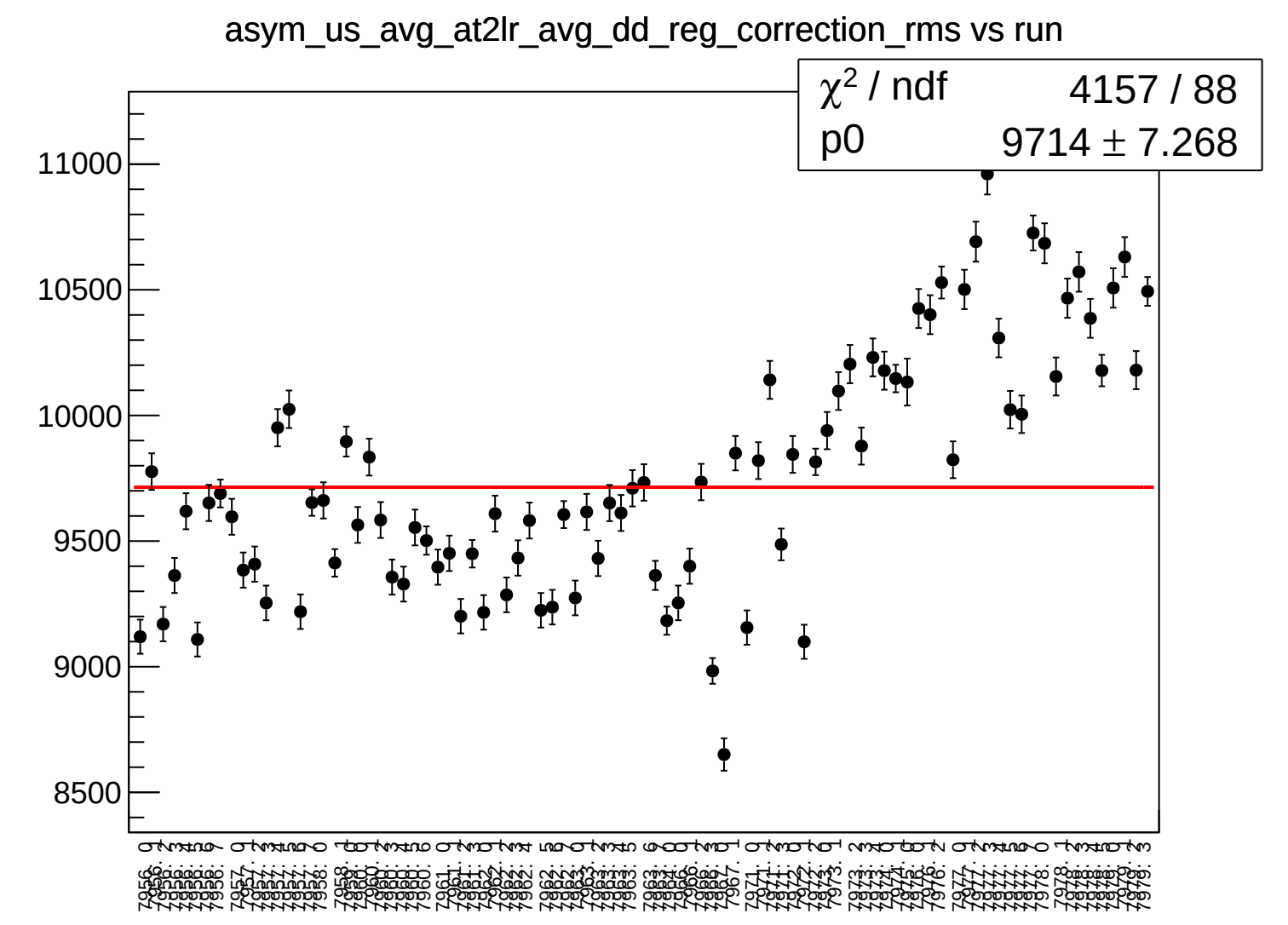

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 97.76 / 88
p0 1641 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −34.97
Std Dev 0
2
1
0
−1
−2

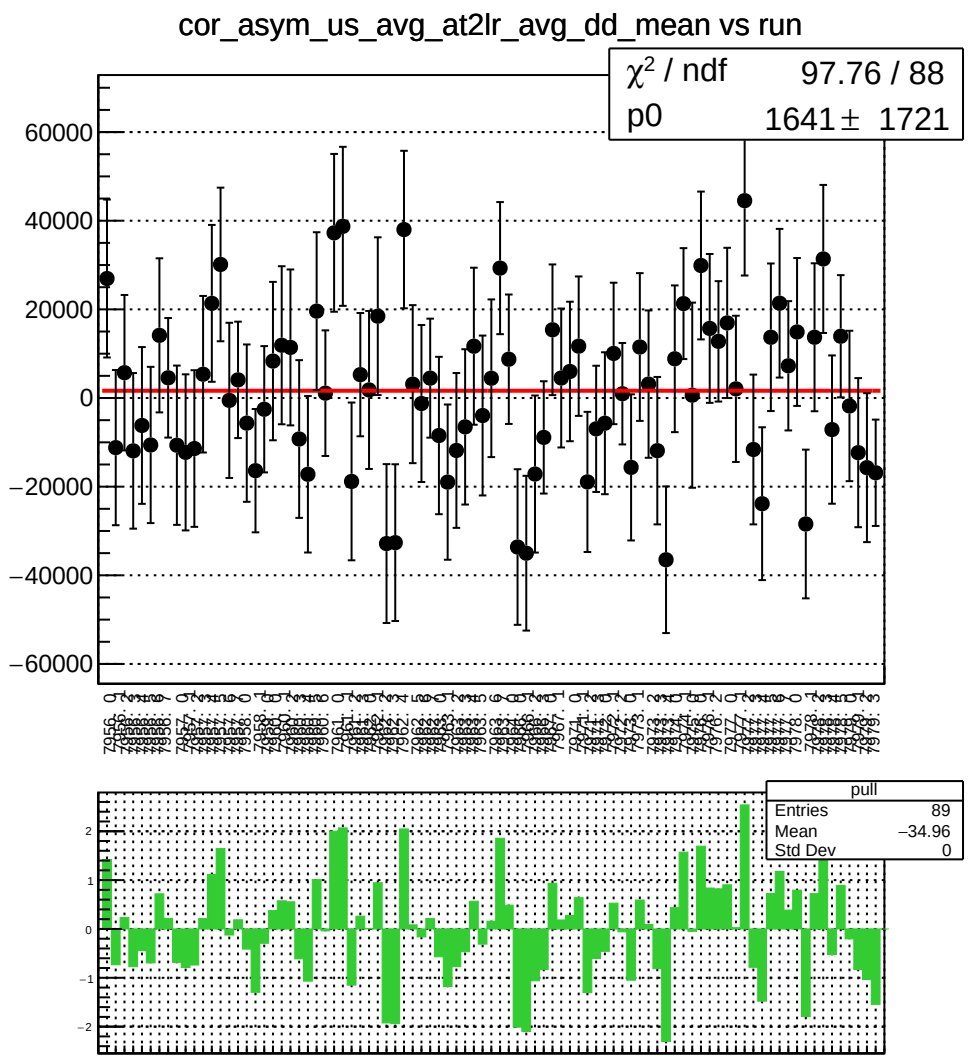

pull1D
Entries 89
Mean −0.005479
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

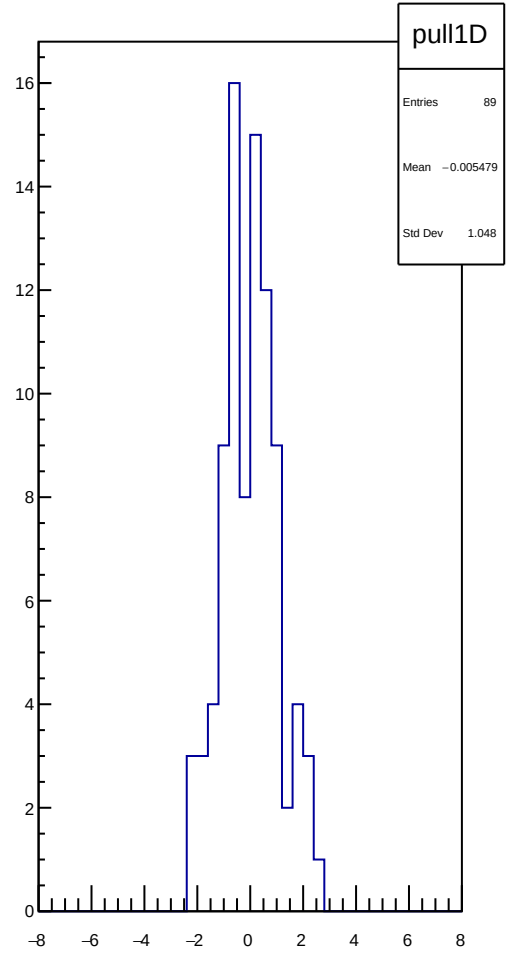

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3004 / 88
p0 1627 ± 1.217
1750
1700
1650
1600
1550
1500
1450
1400

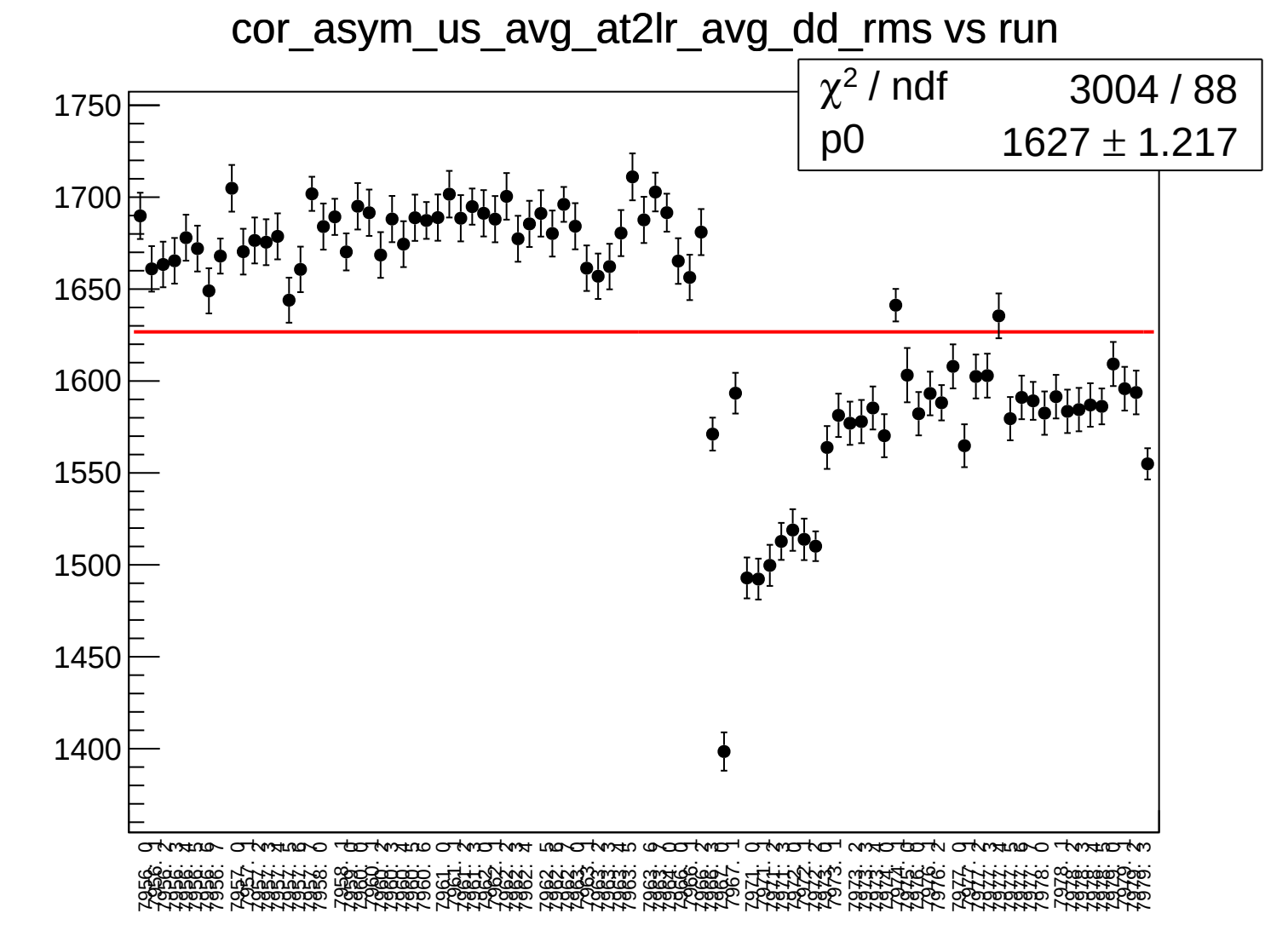

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.02 / 88
p0 −6552 ± 1.028e+04
pull
Entries 89
Mean −520.4
Std Dev 0

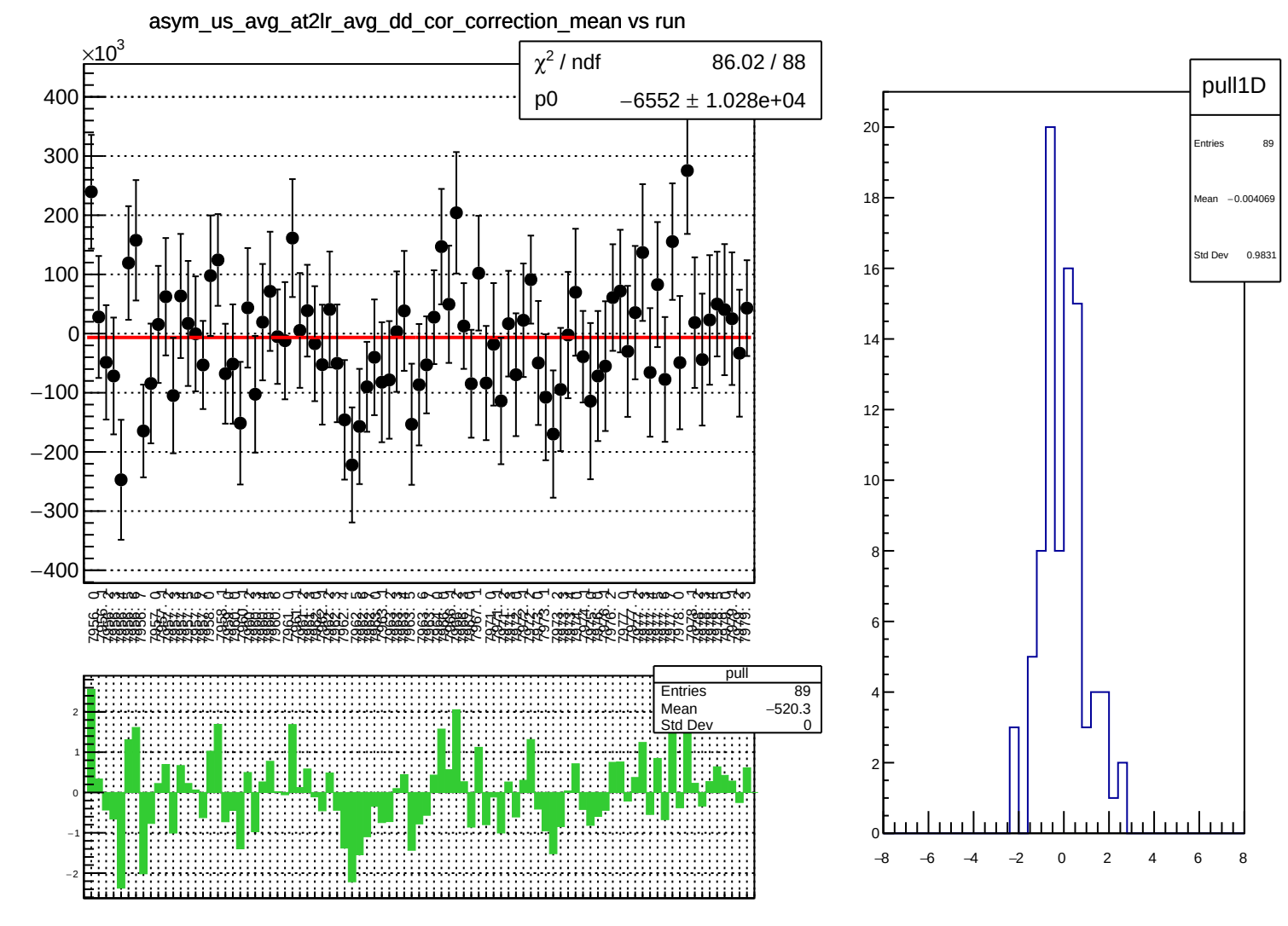

pull1D
Entries 89
Mean −0.004068
Std Dev 0.9831

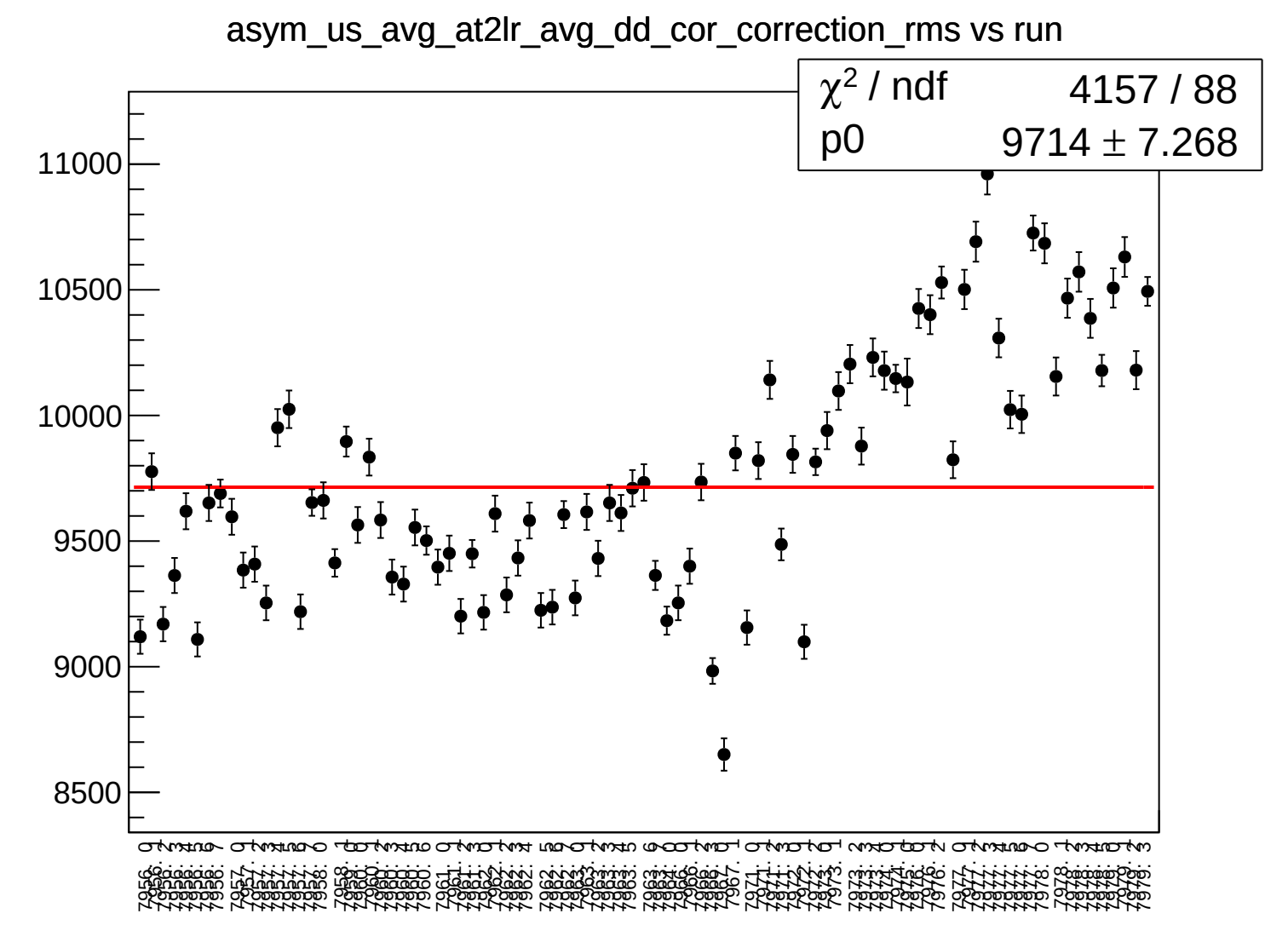

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 4157 / 88
p0 9714 ± 7.268
11000
10500
10000
9500
9000
8500

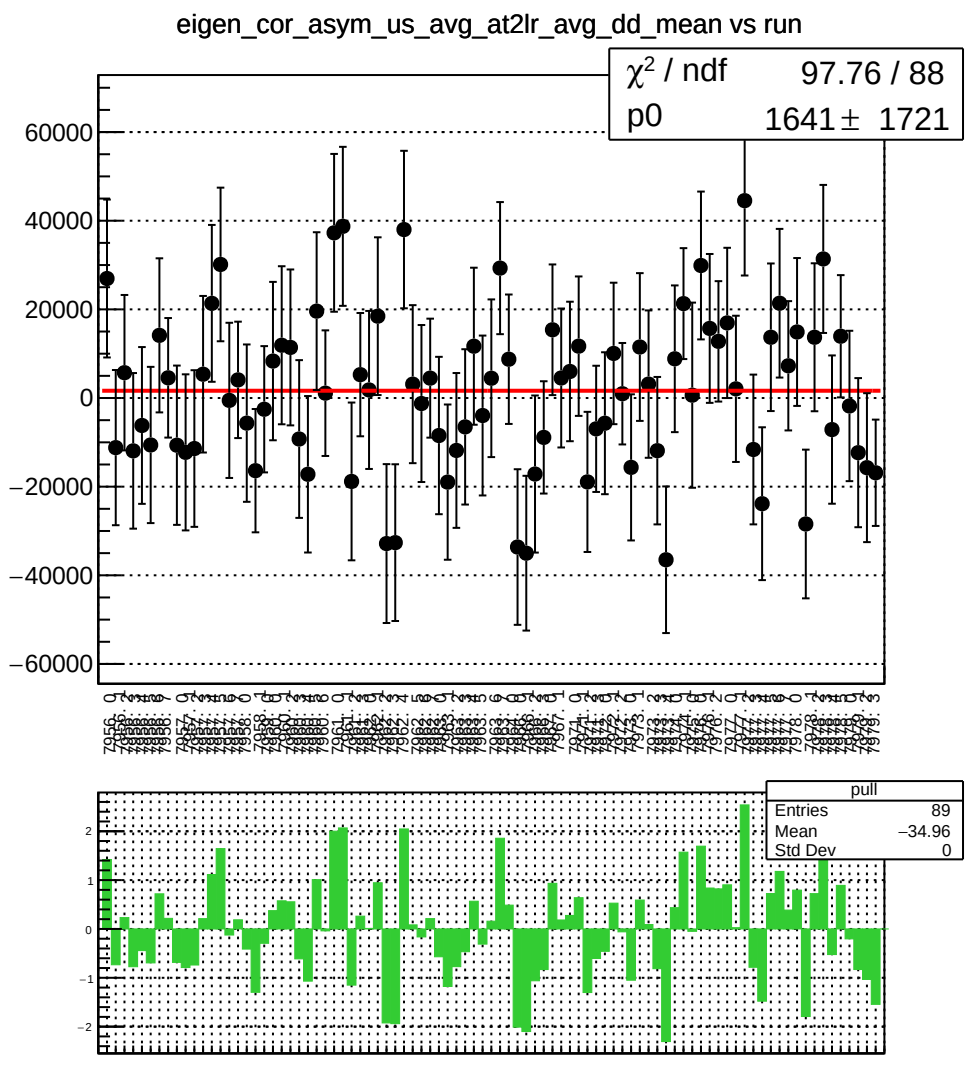

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 97.76 / 88
p0 1641 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −34.96
Std Dev 0
2
1
0
−1
−2

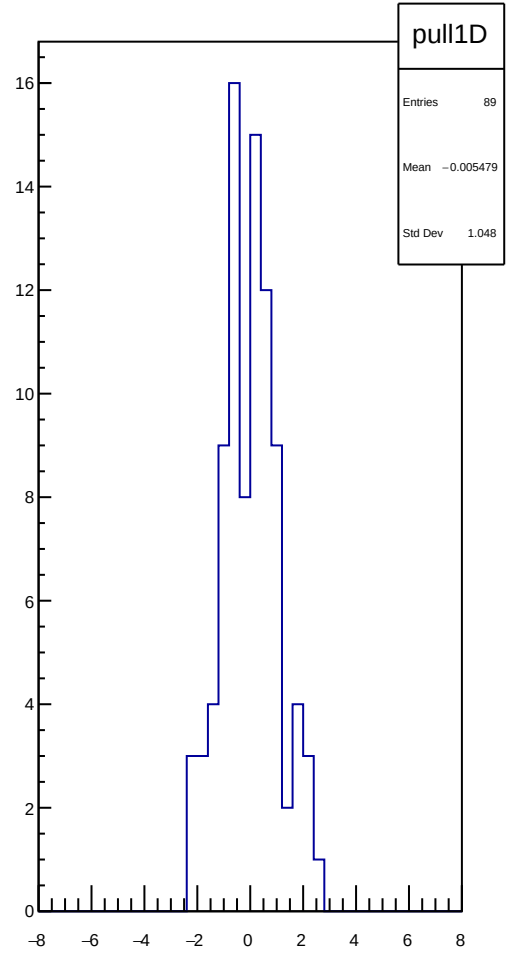

pull1D
Entries 89
Mean −0.005479
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

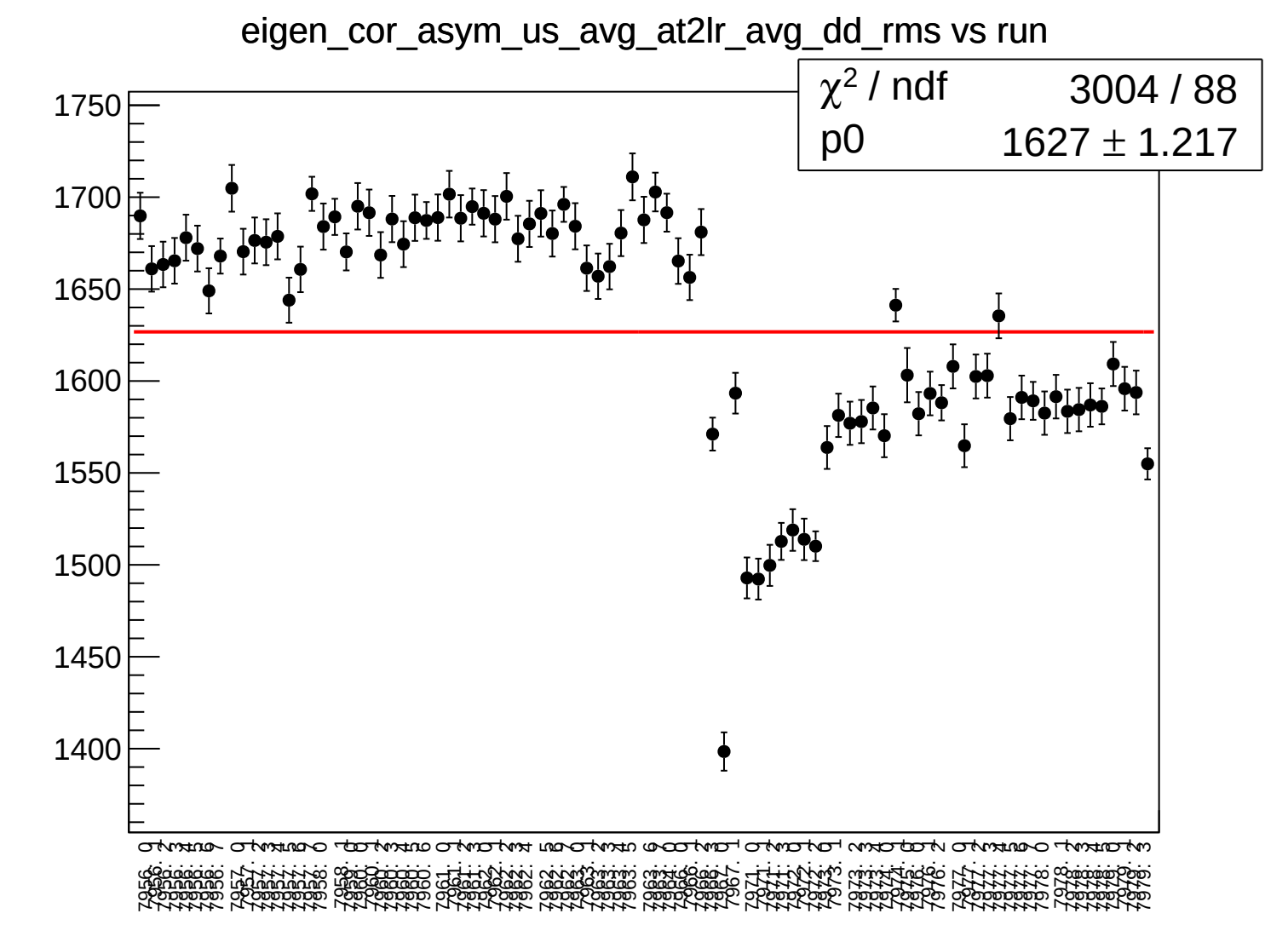

cor_asym_us_avg_at2lr_avg_dd_rms vs run
$\chi^2$ / ndf 3004 / 88
p0 1627 ± 1.217
1750
1700
1650
1600
1550
1500
1450
1400

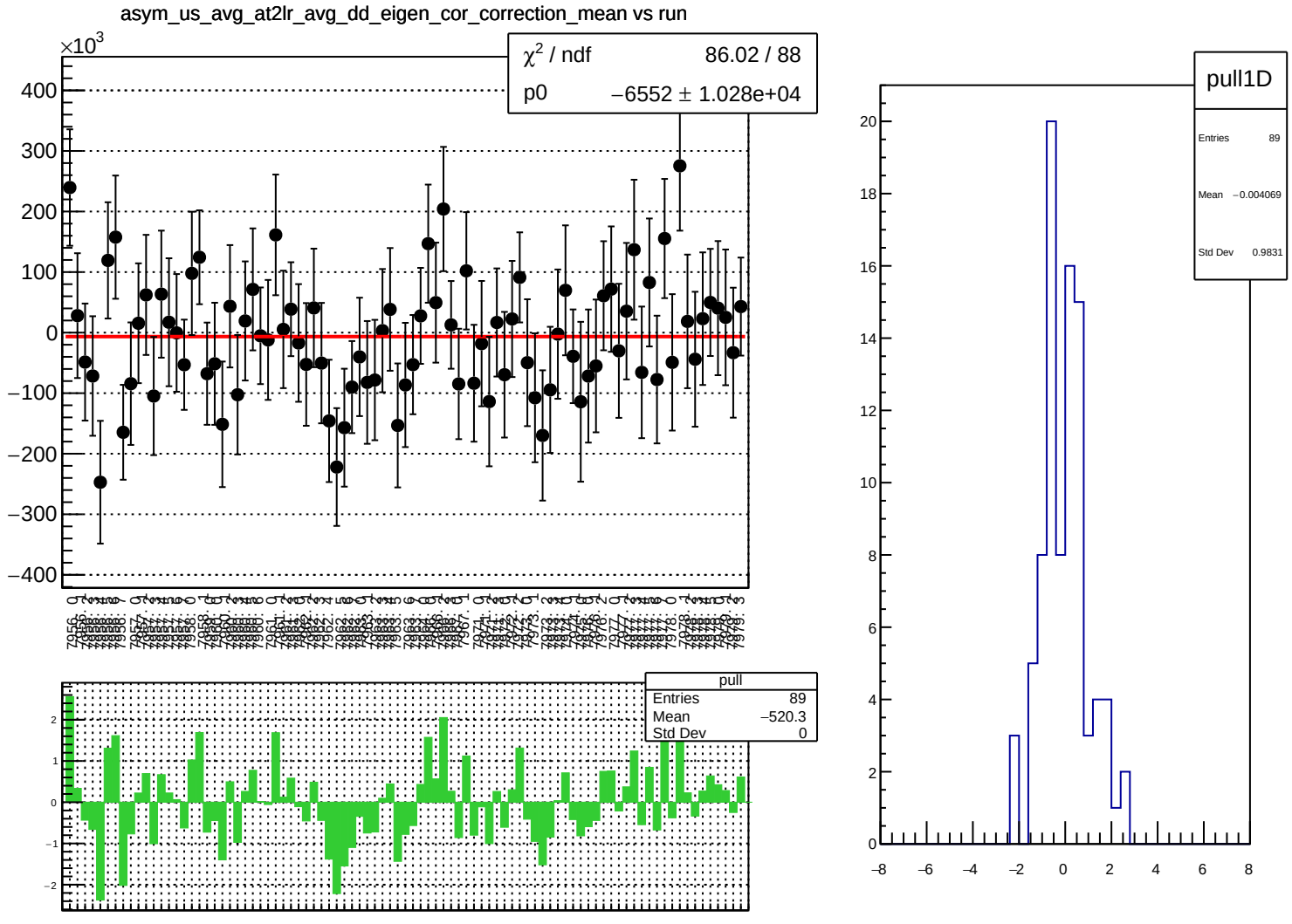

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.02 / 88
p0 −6552 ± 1.028e+04
pull
Entries 89
Mean −520.3
Std Dev 0
pull1D
Entries 89
Mean −0.004069
Std Dev 0.9831

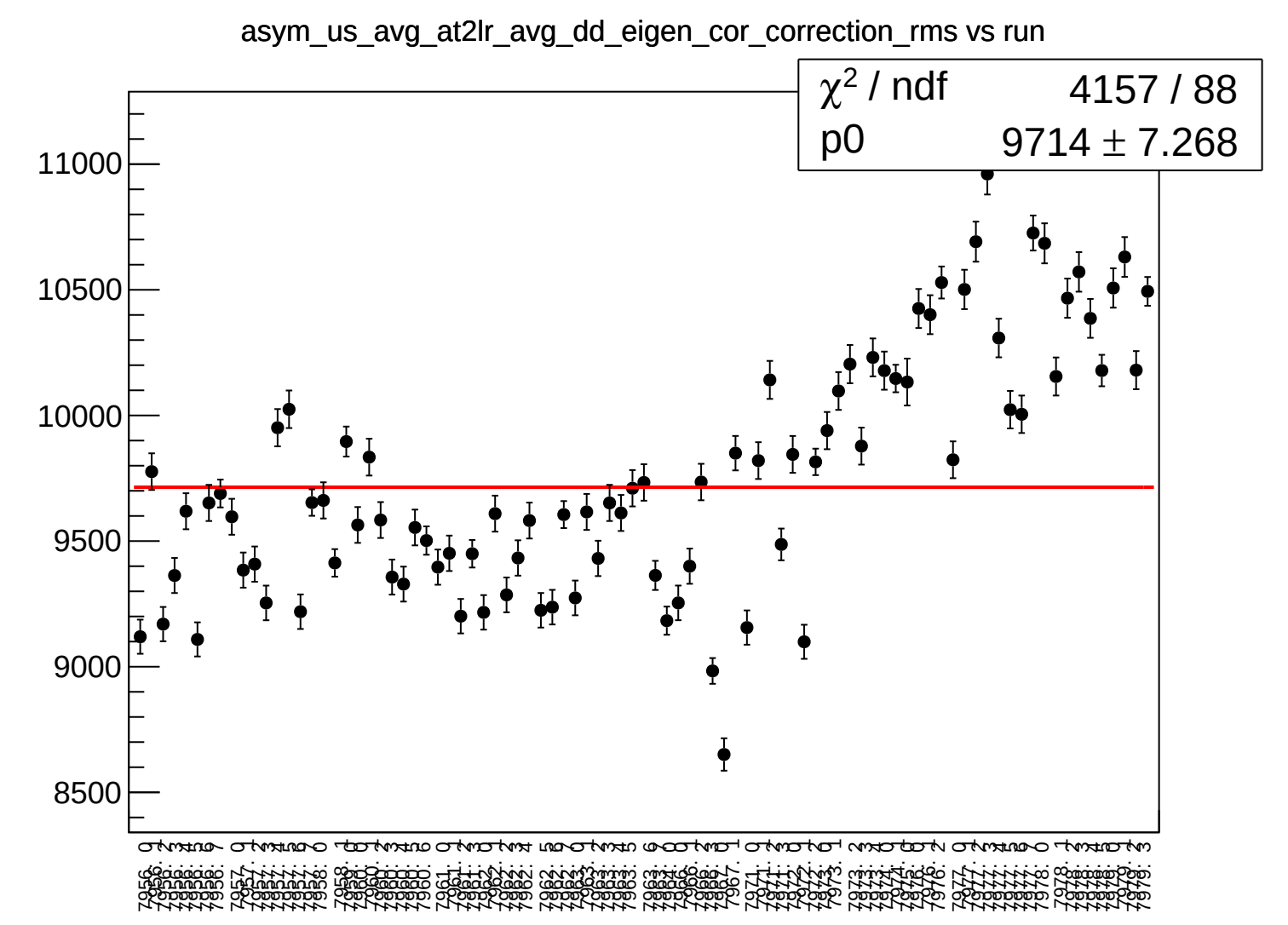

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 4157 / 88
p0 9714 ± 7.268
11000
10500
10000
9500
9000
8500

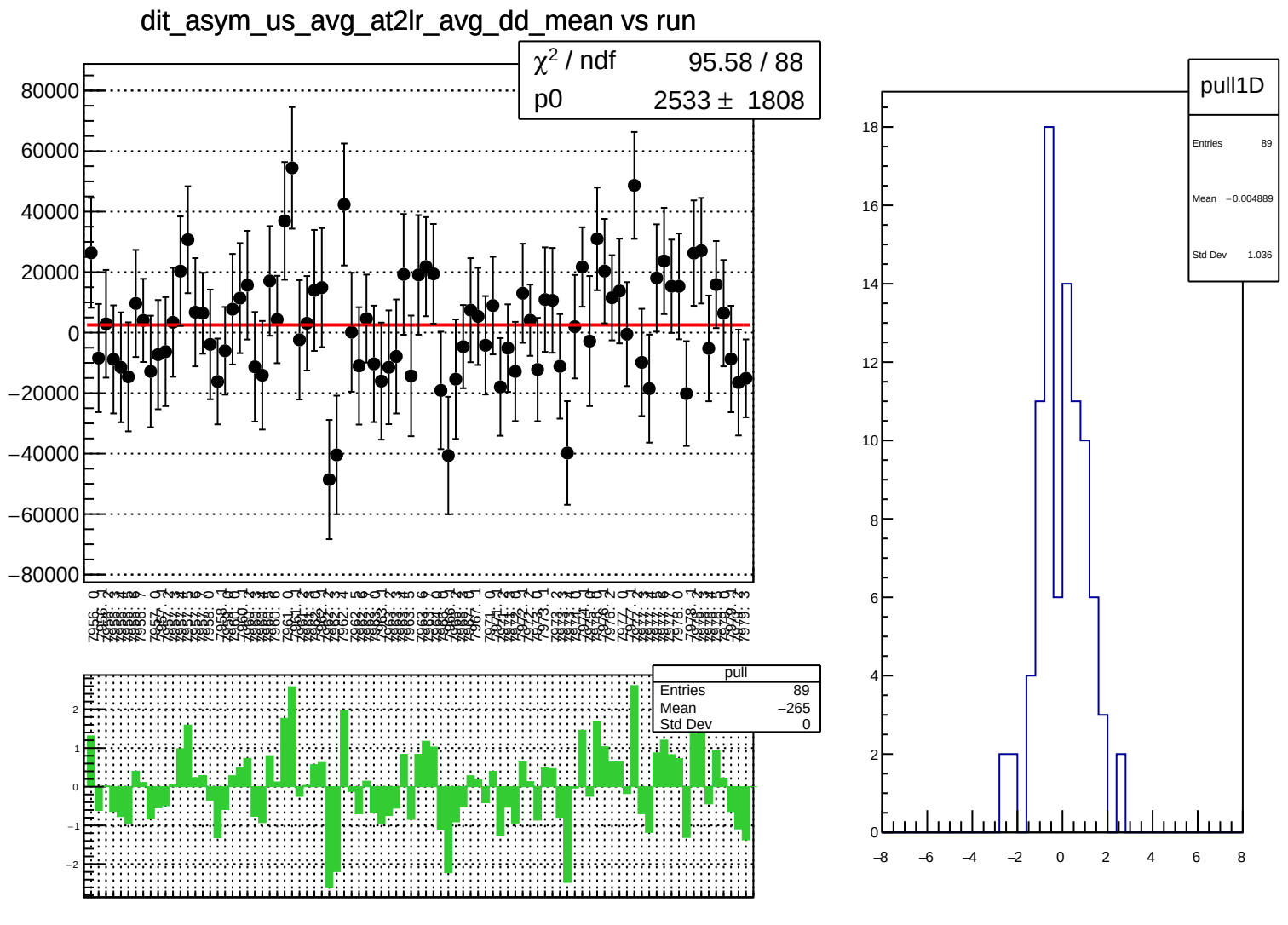

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 97.76 / 88
p0 1641 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −34.96
Std Dev 0
2
1
0
−1
−2

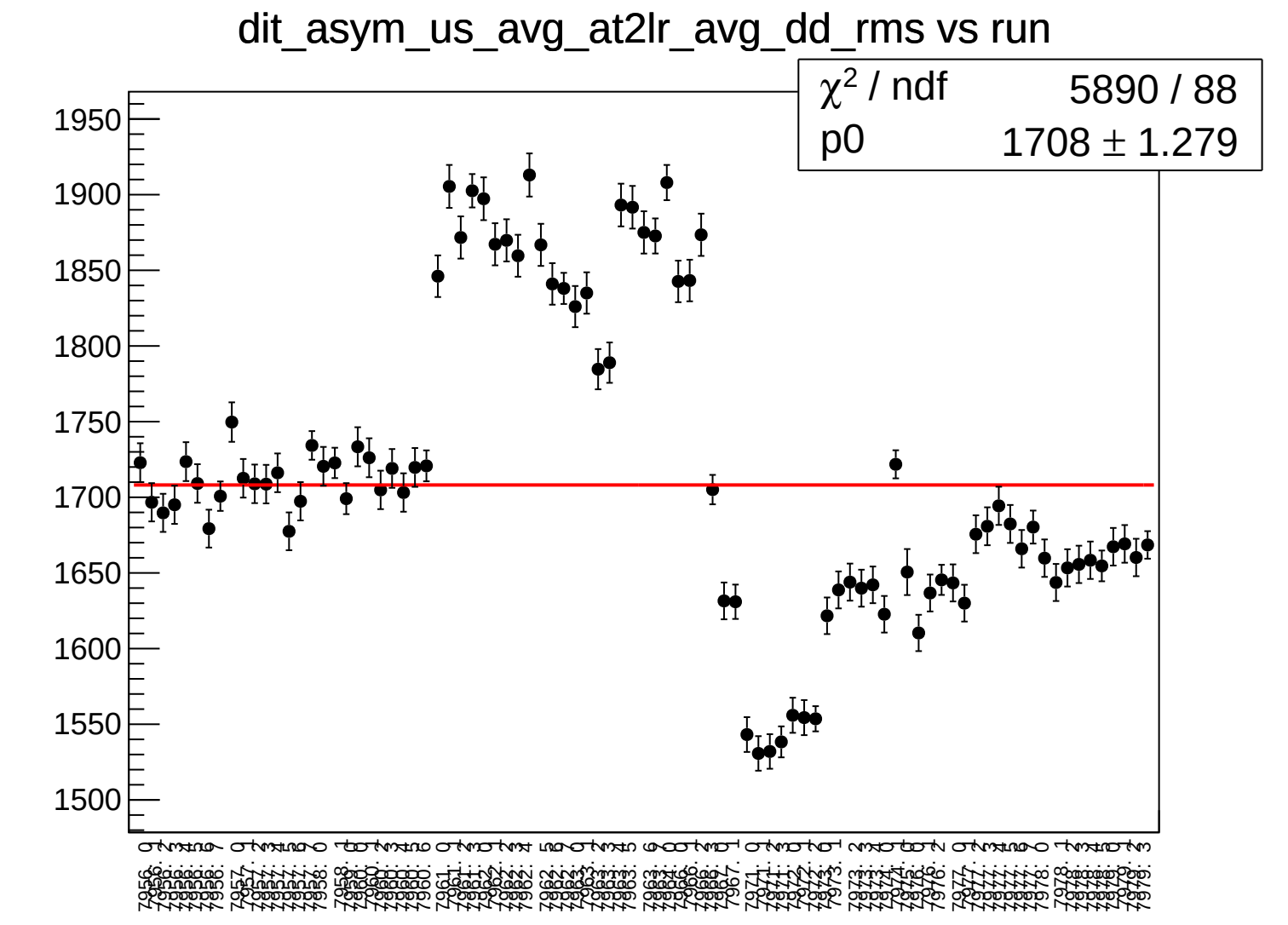

pull1D
Entries 89
Mean −0.005479
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

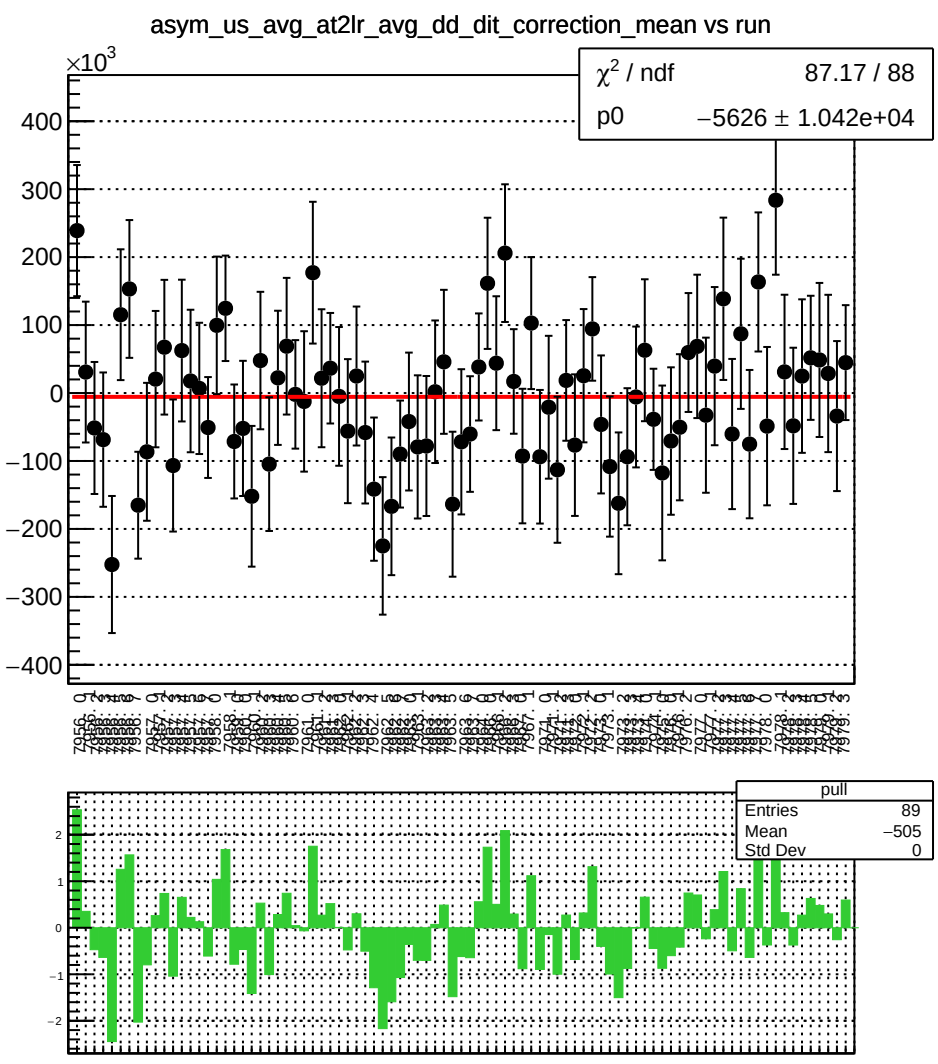

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3004 / 88
p0 1627 ± 1.217
1750
1700
1650
1600
1550
1500
1450
1400

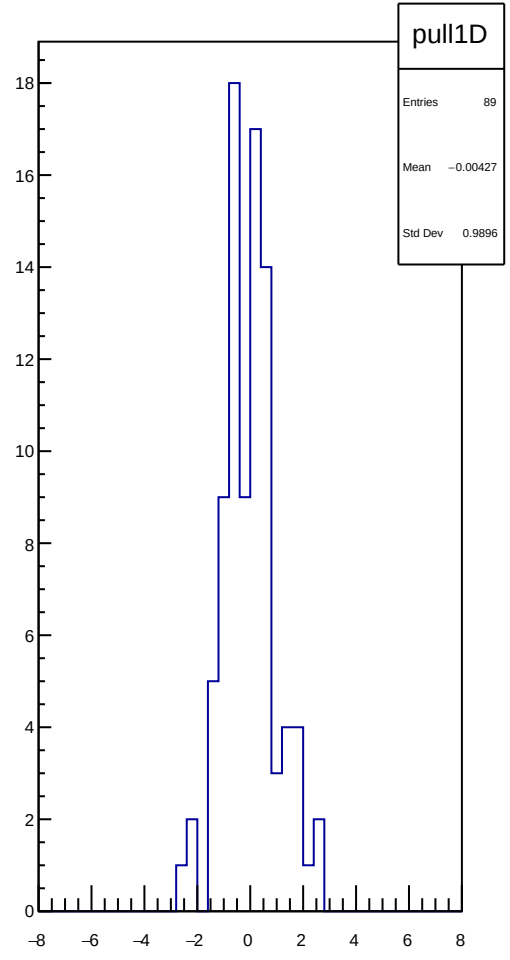

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.02 / 88
p0 −6552 ± 1.028e+04
pull
Entries 89
Mean −520.3
Std Dev 0
pull1D
Entries 89
Mean −0.004069
Std Dev 0.9831

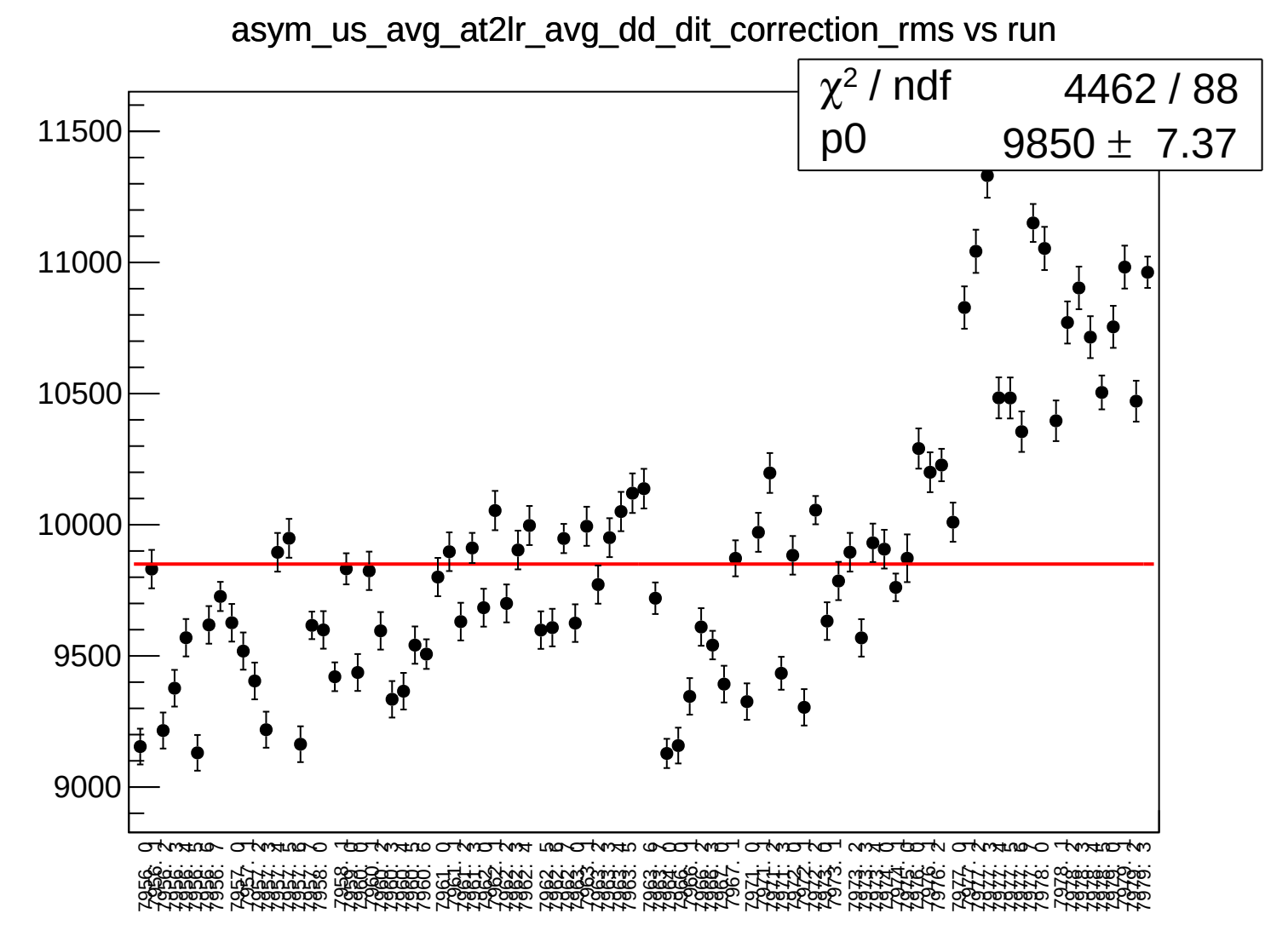

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4157 / 88
p0 9714 ± 7.268
11000
10500
10000
9500
9000
8500

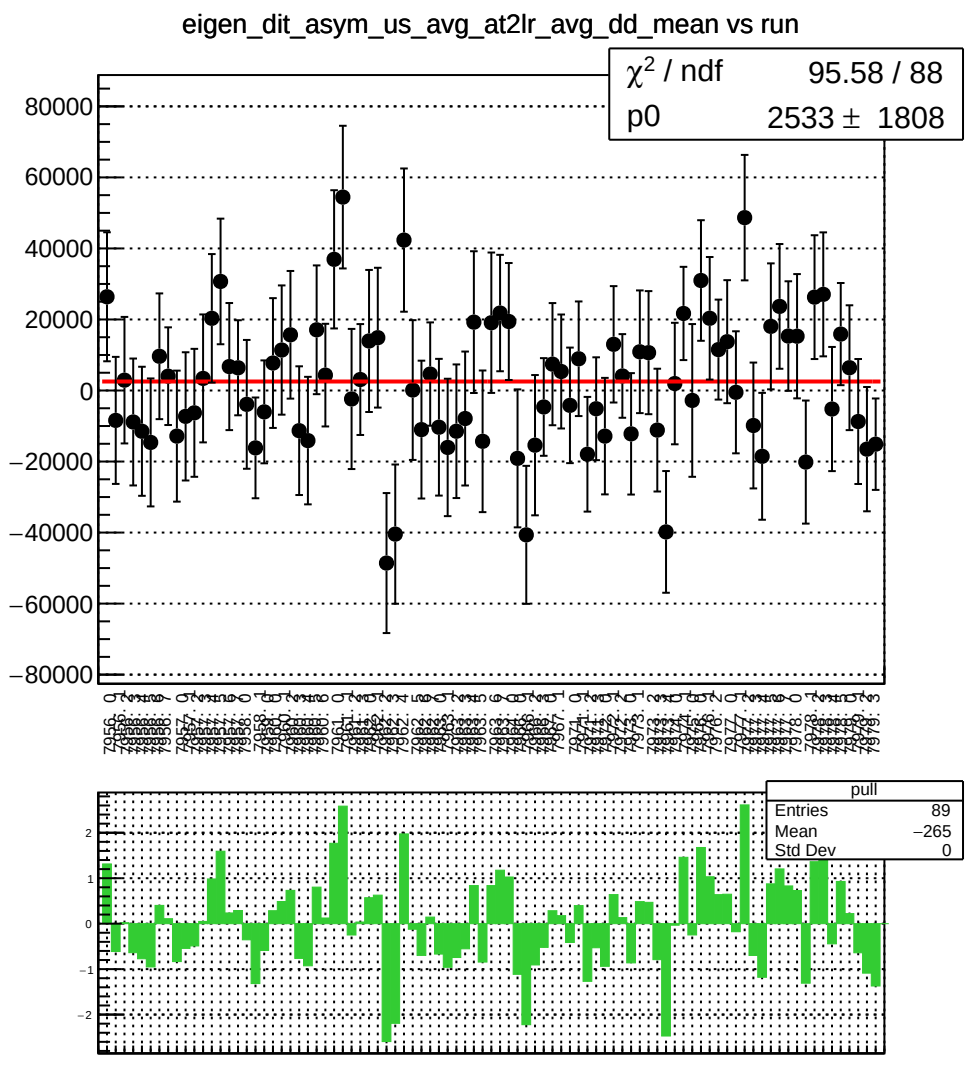

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.58 / 88
p0 2533 ± 1808
pull
Entries 89
Mean −265
Std Dev 0
pull1D
Entries 89
Mean −0.004889
Std Dev 1.036

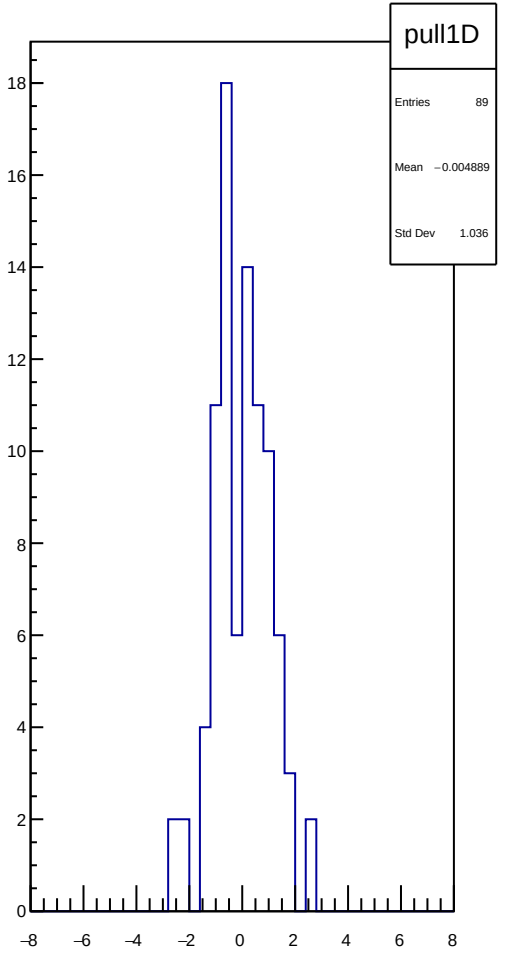

dit_asym_us_avg_at2lr_avg_dd_rms vs run
$\chi^2$ / ndf 5890 / 88
p0 1708 ± 1.279
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

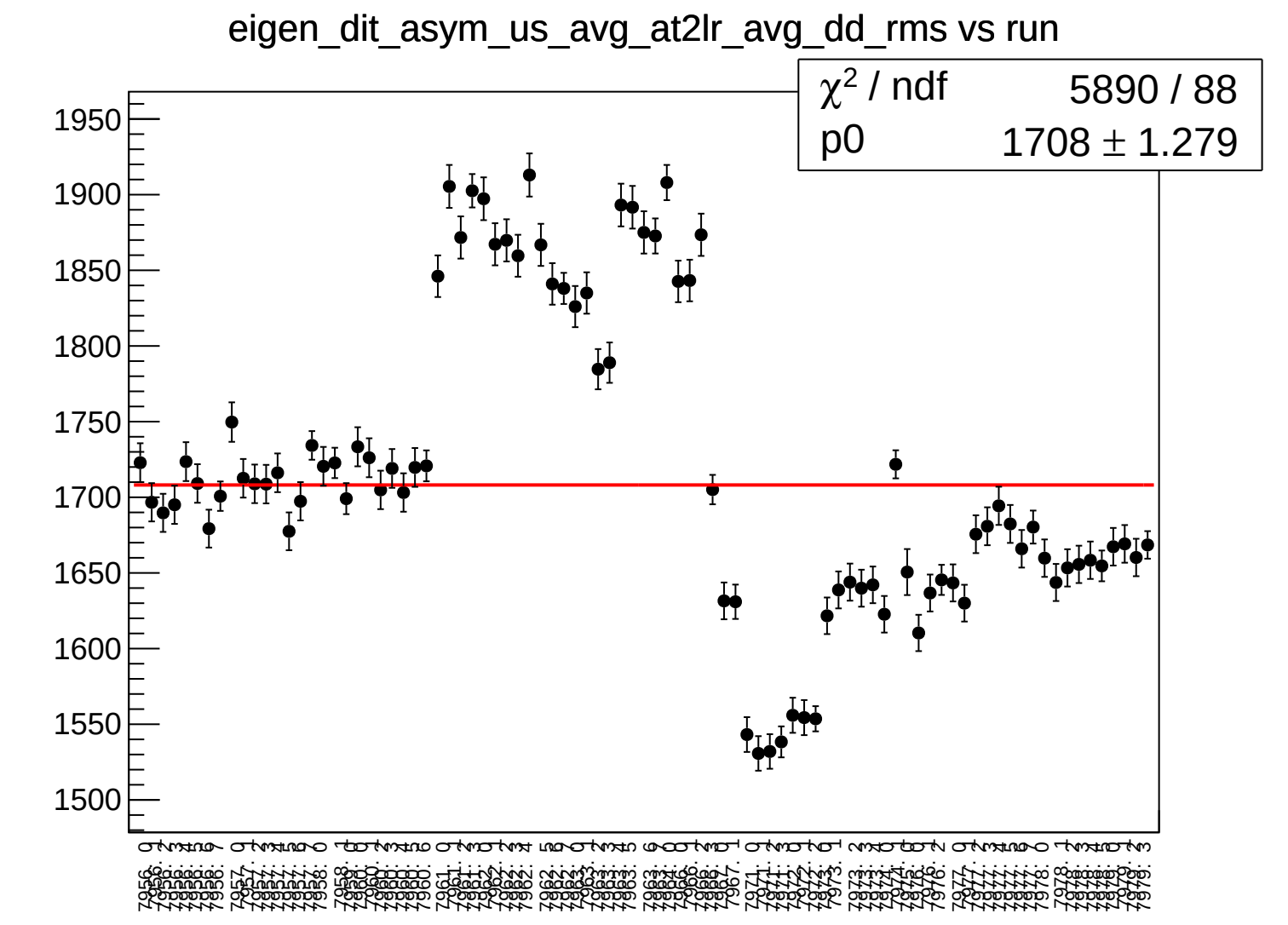

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.17 / 88
p0 −5626 ± 1.042e+04
pull
Entries 89
Mean −505
Std Dev 0

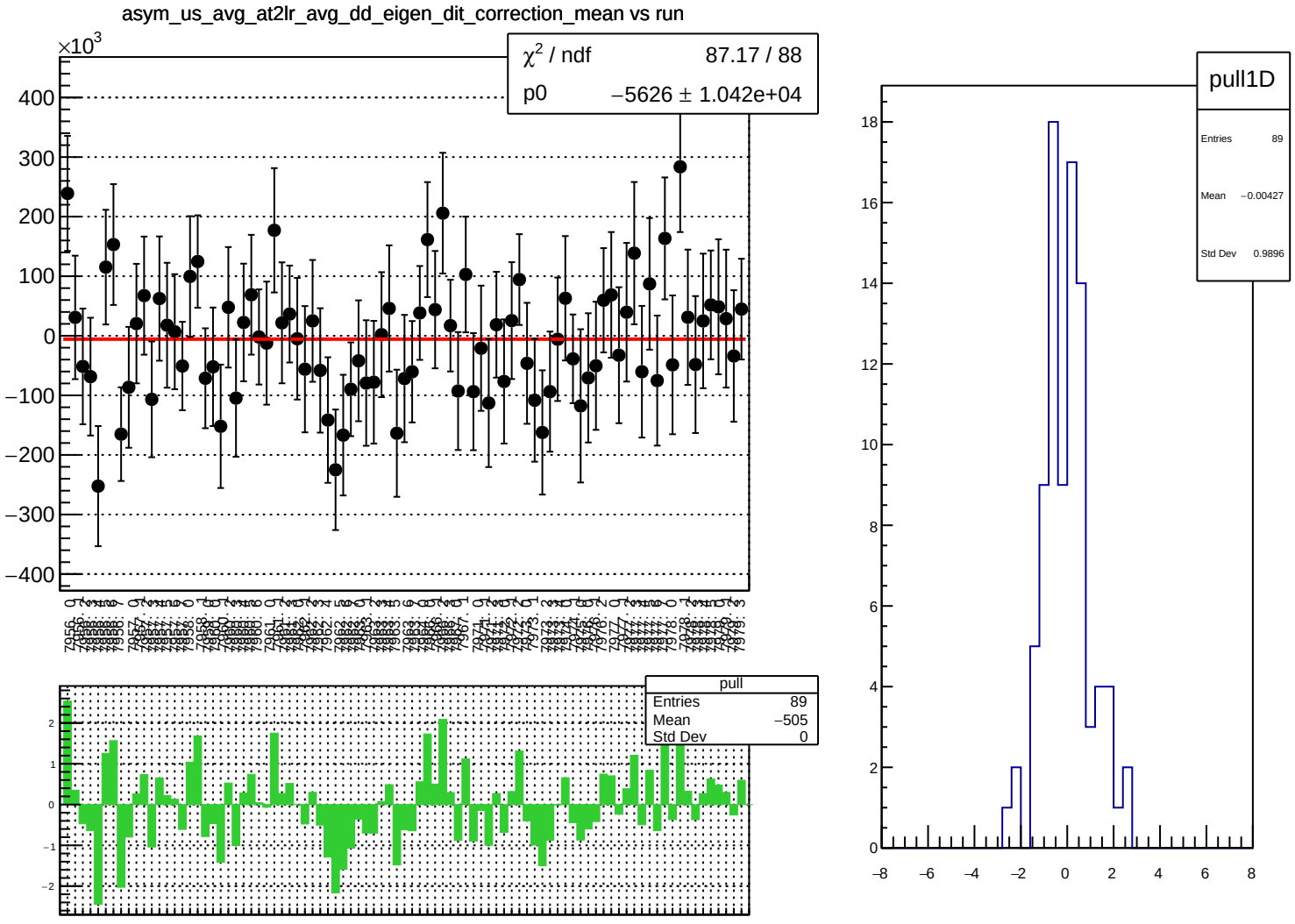

pull1D
Entries 89
Mean −0.00427
Std Dev 0.9896

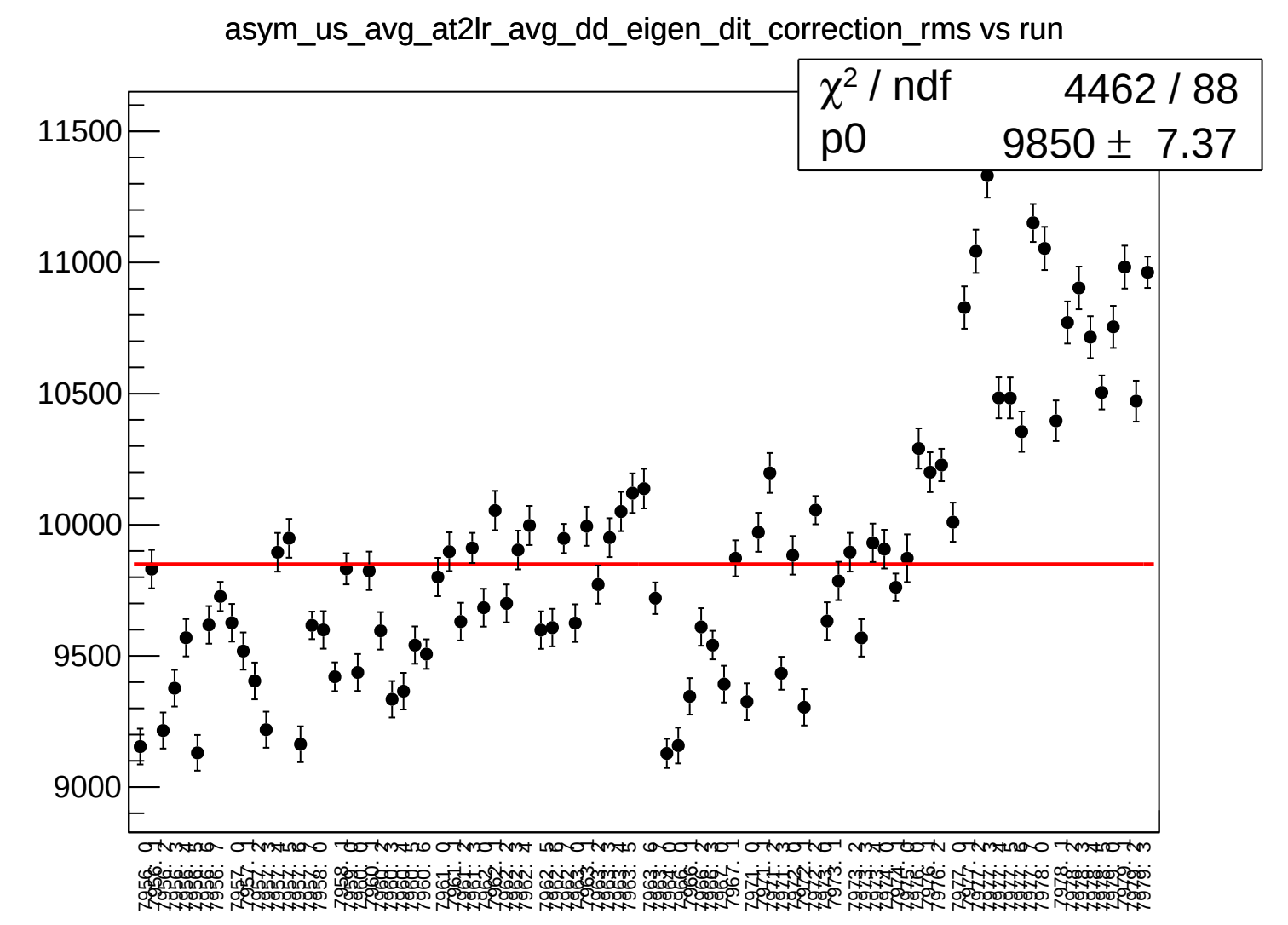

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 4462 / 88
p0 9850 ± 7.37
11500
11000
10500
10000
9500
9000

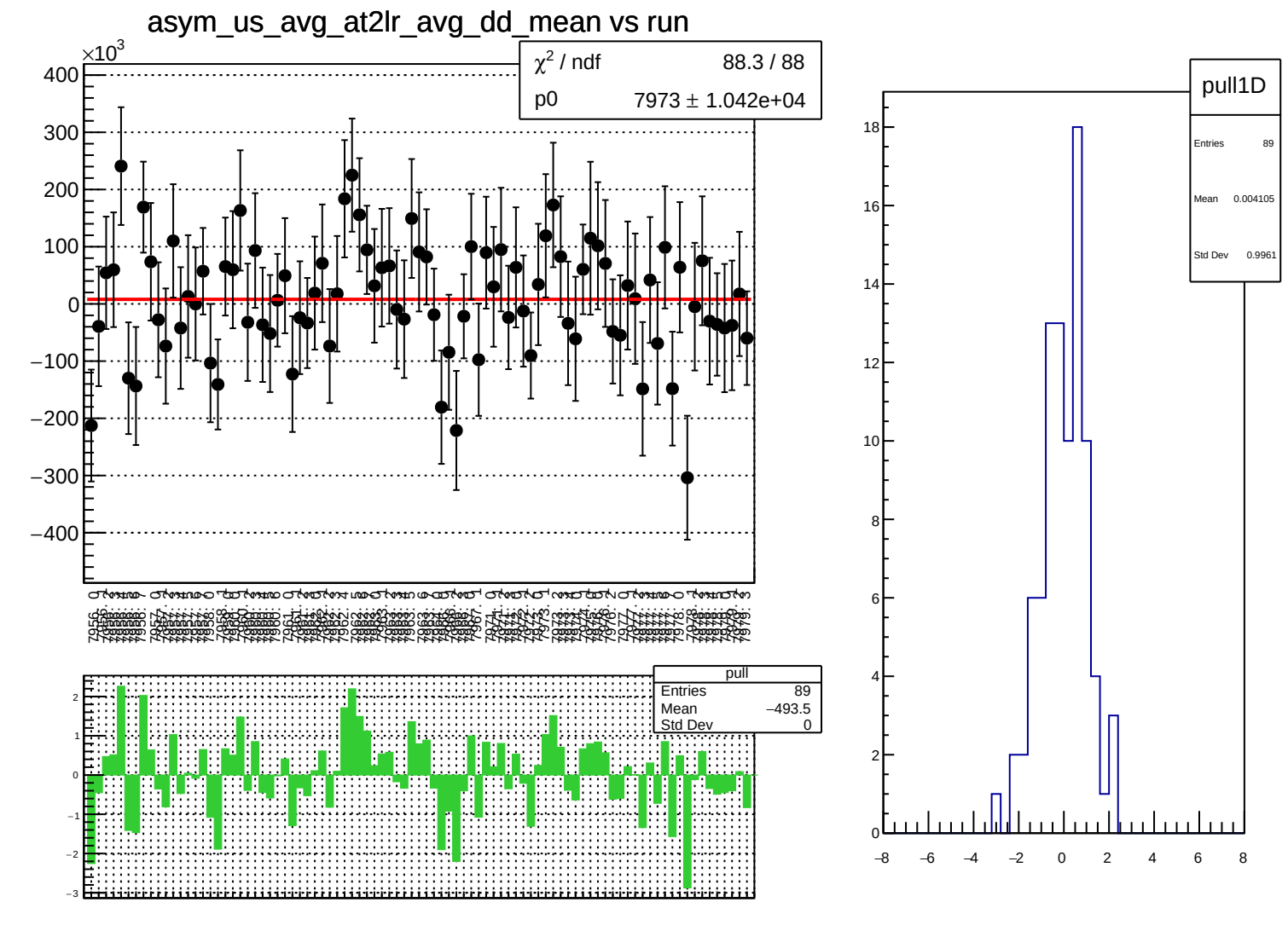

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.58 / 88
p0 2533 ± 1808
pull
Entries 89
Mean −265
Std Dev 0

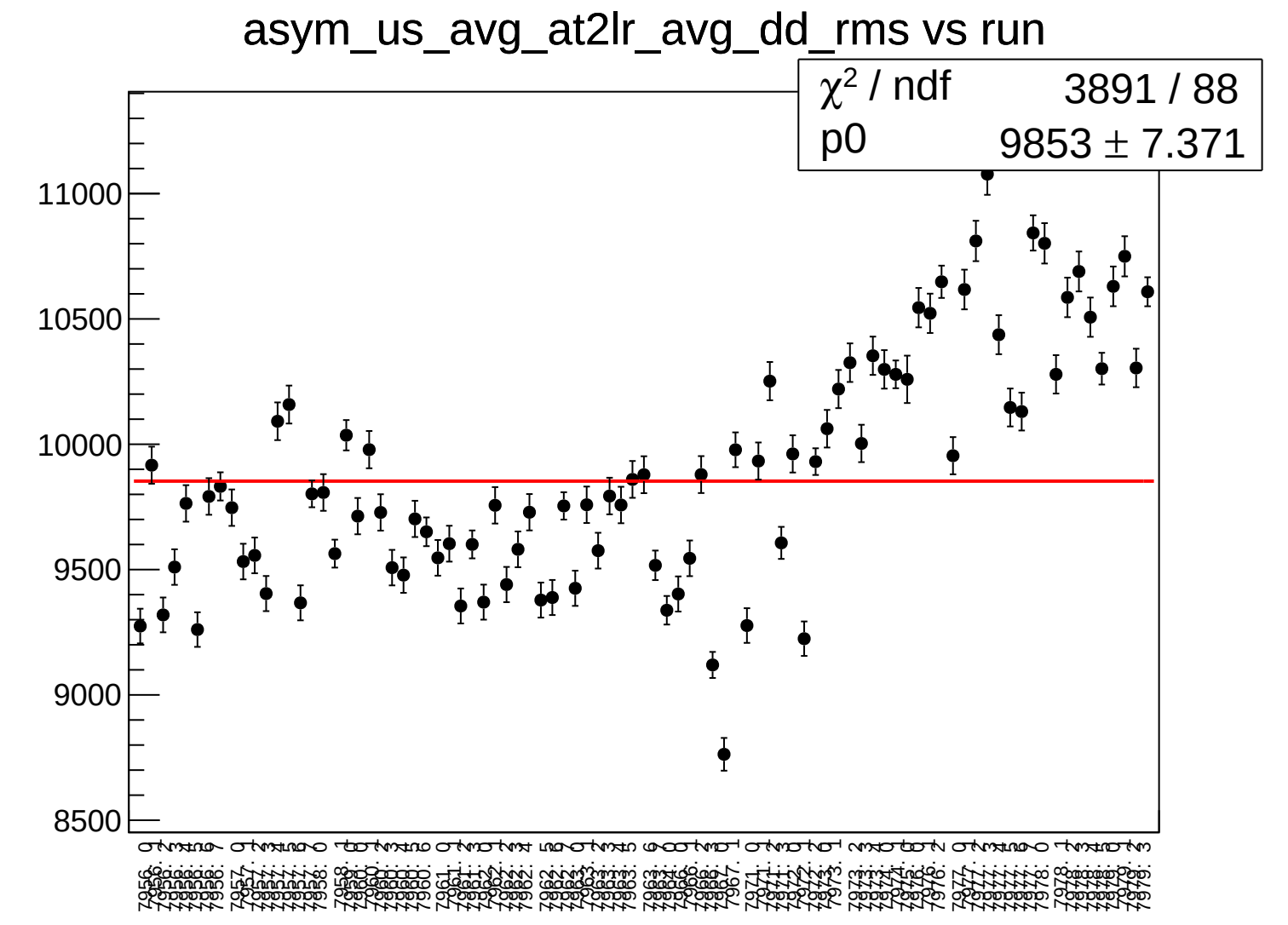

pull1D
Entries 89
Mean −0.004889
Std Dev 1.036

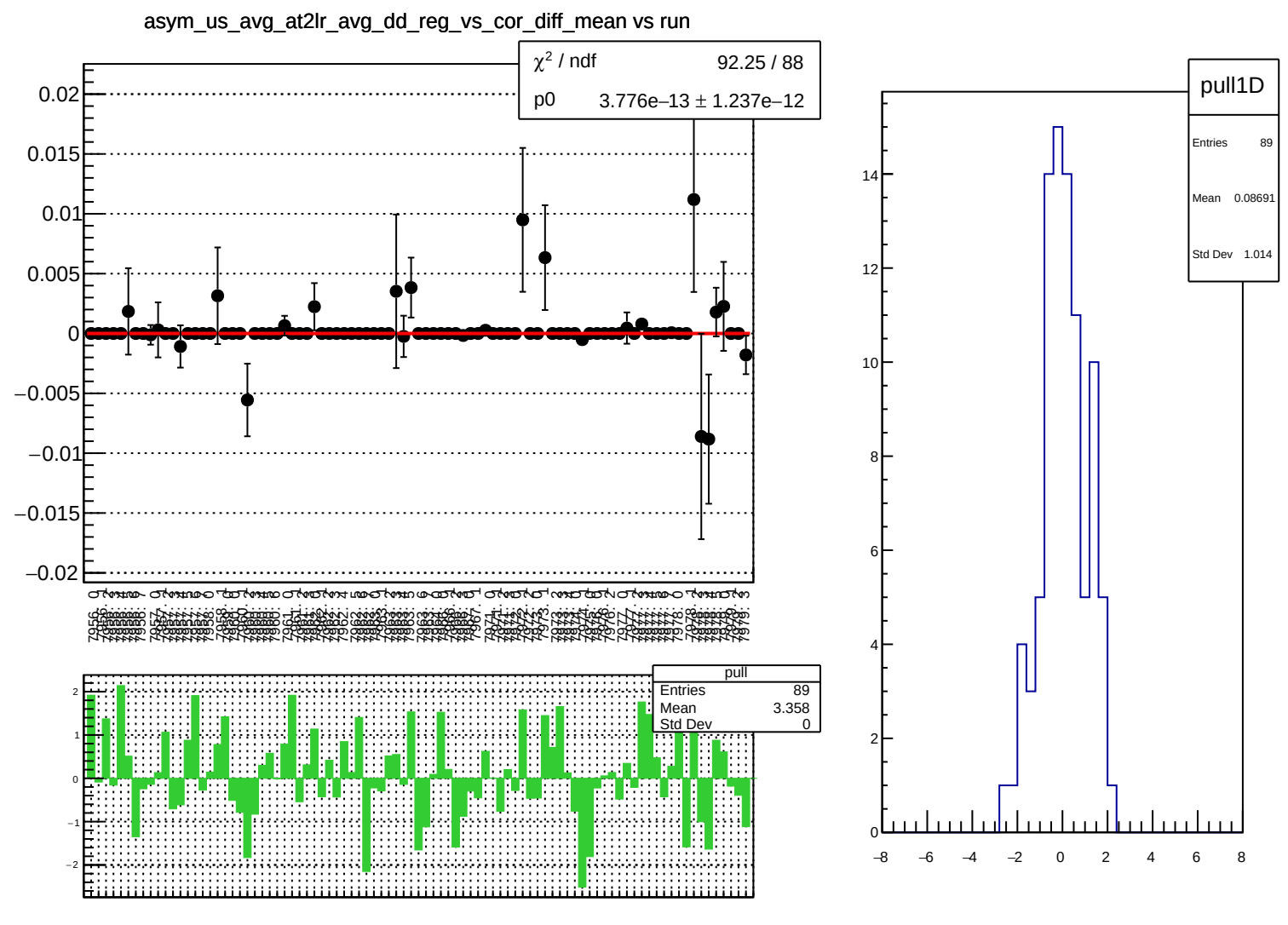

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 5890 / 88
p0 1708 ± 1.279
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

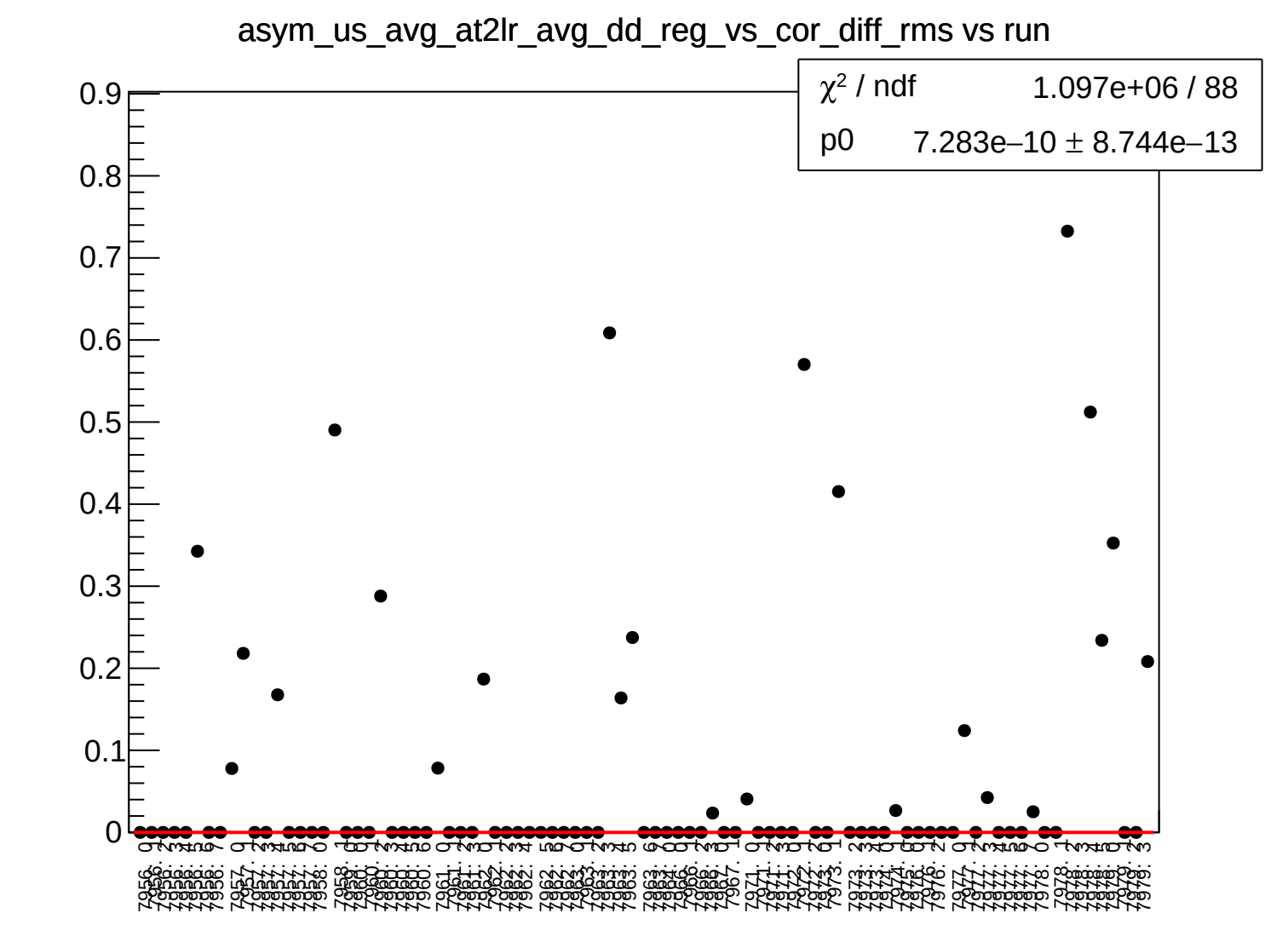

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.17 / 88
p0 −5626 ± 1.042e+04
pull
Entries 89
Mean −505
Std Dev 0
pull1D
Entries 89
Mean −0.00427
Std Dev 0.9896

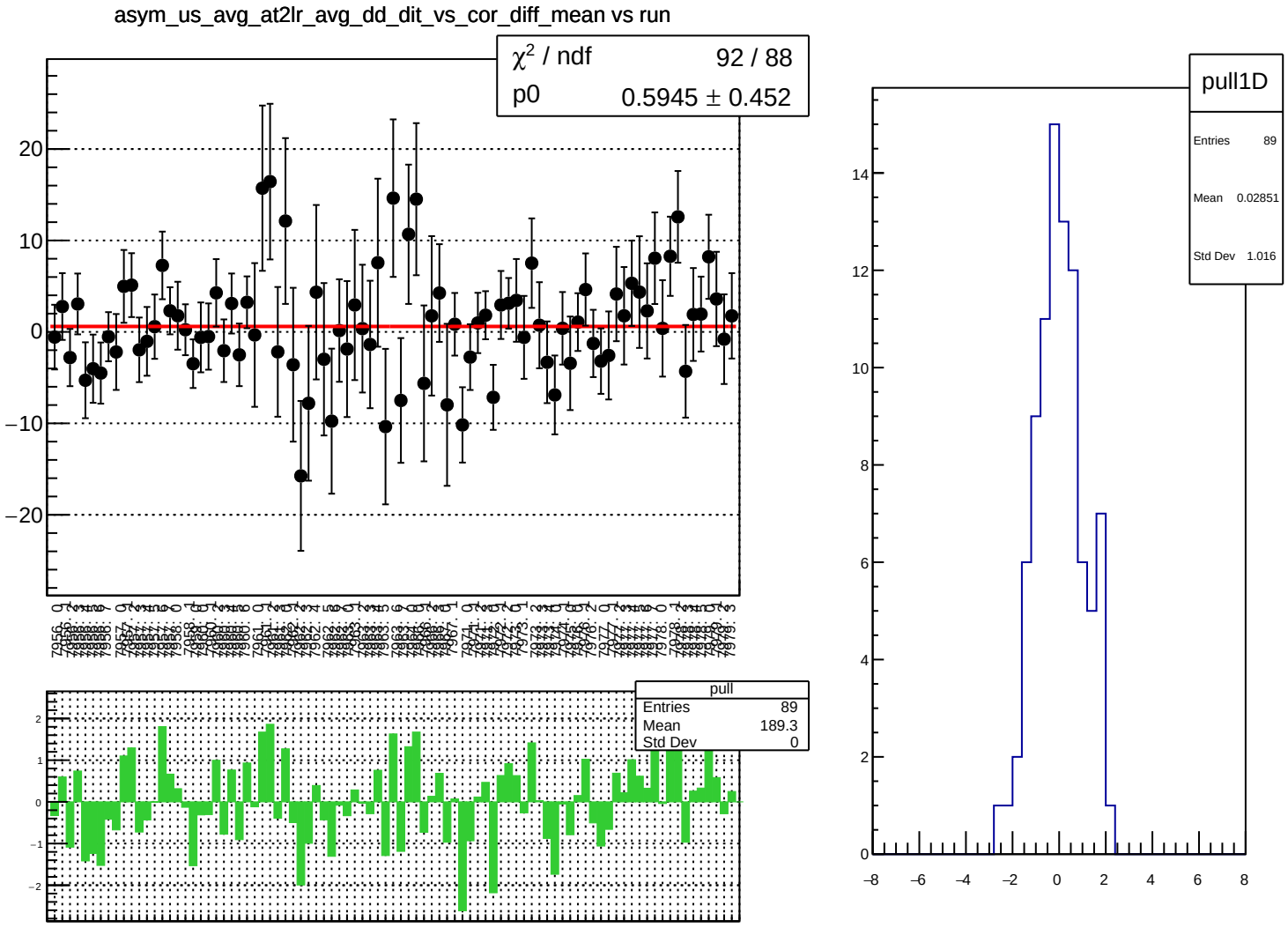

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4462 / 88
p0 9850 ± 7.37
11500
11000
10500
10000
9500
9000

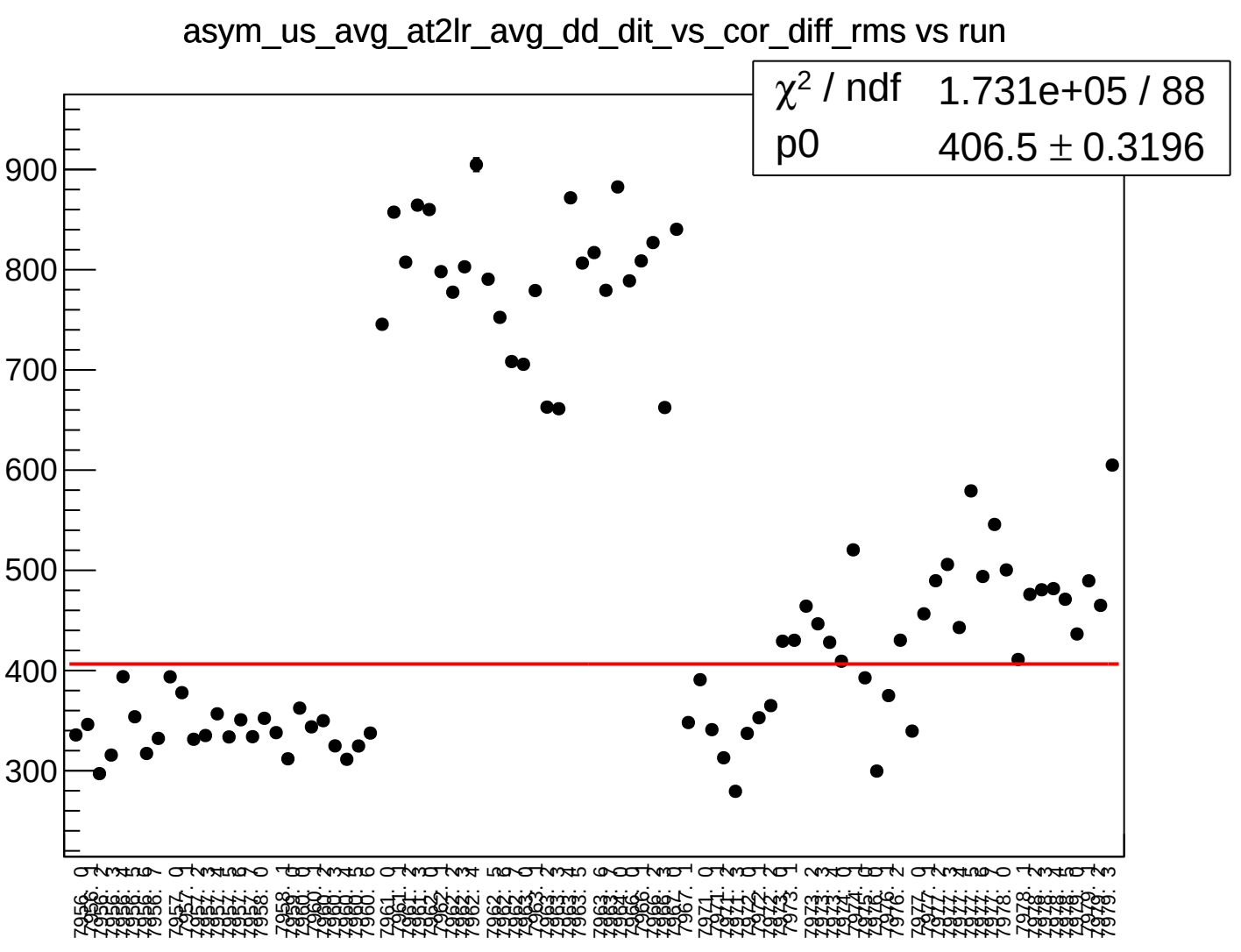

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 88.3 / 88
p0 7973 ± 1.042e+04
pull
Entries 89
Mean −493.5
Std Dev 0
pull1D
Entries 89
Mean 0.004105
Std Dev 0.9961

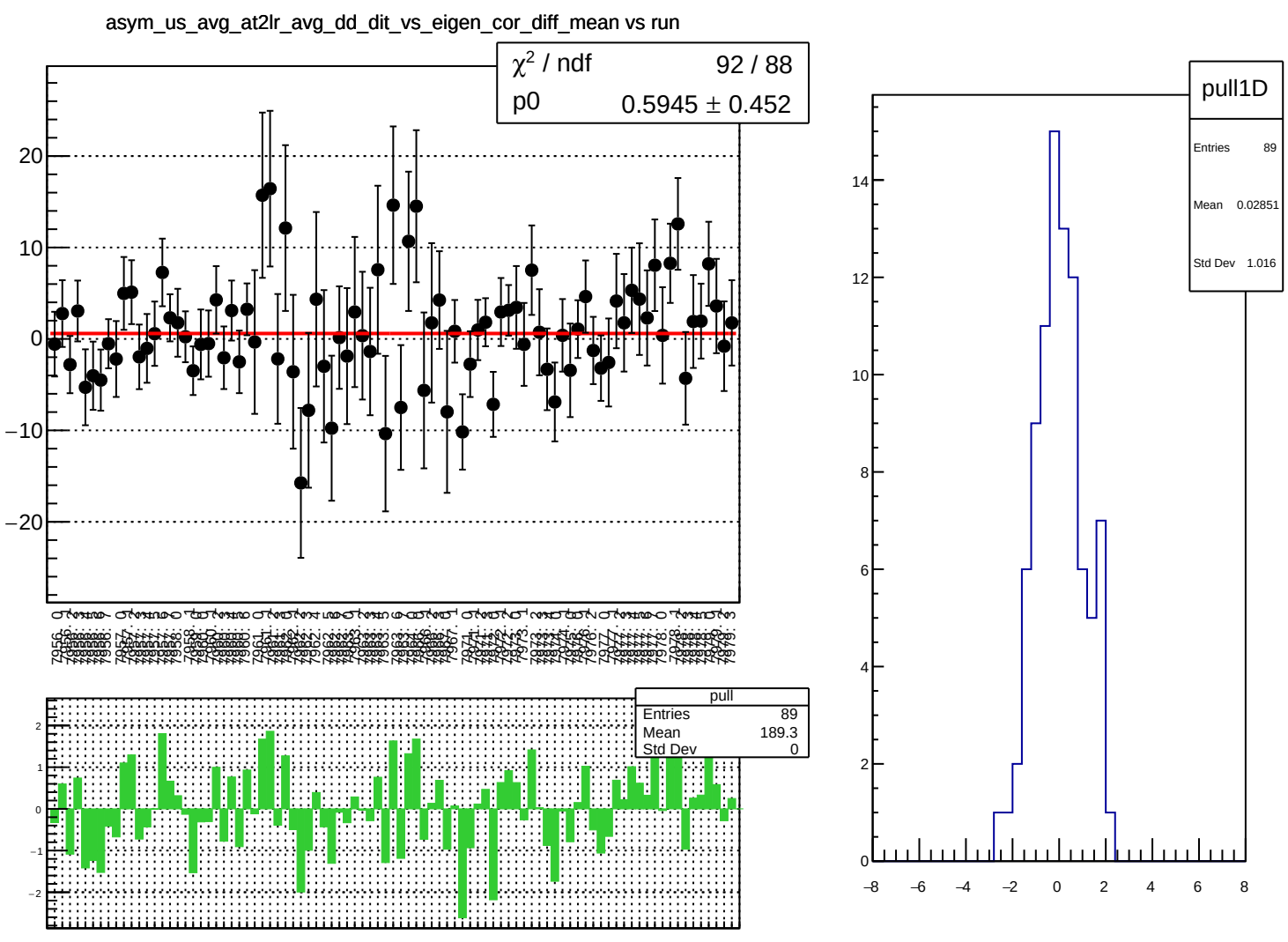

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3891 / 88
p0 9853 ± 7.371
11000
10500
10000
9500
9000
8500

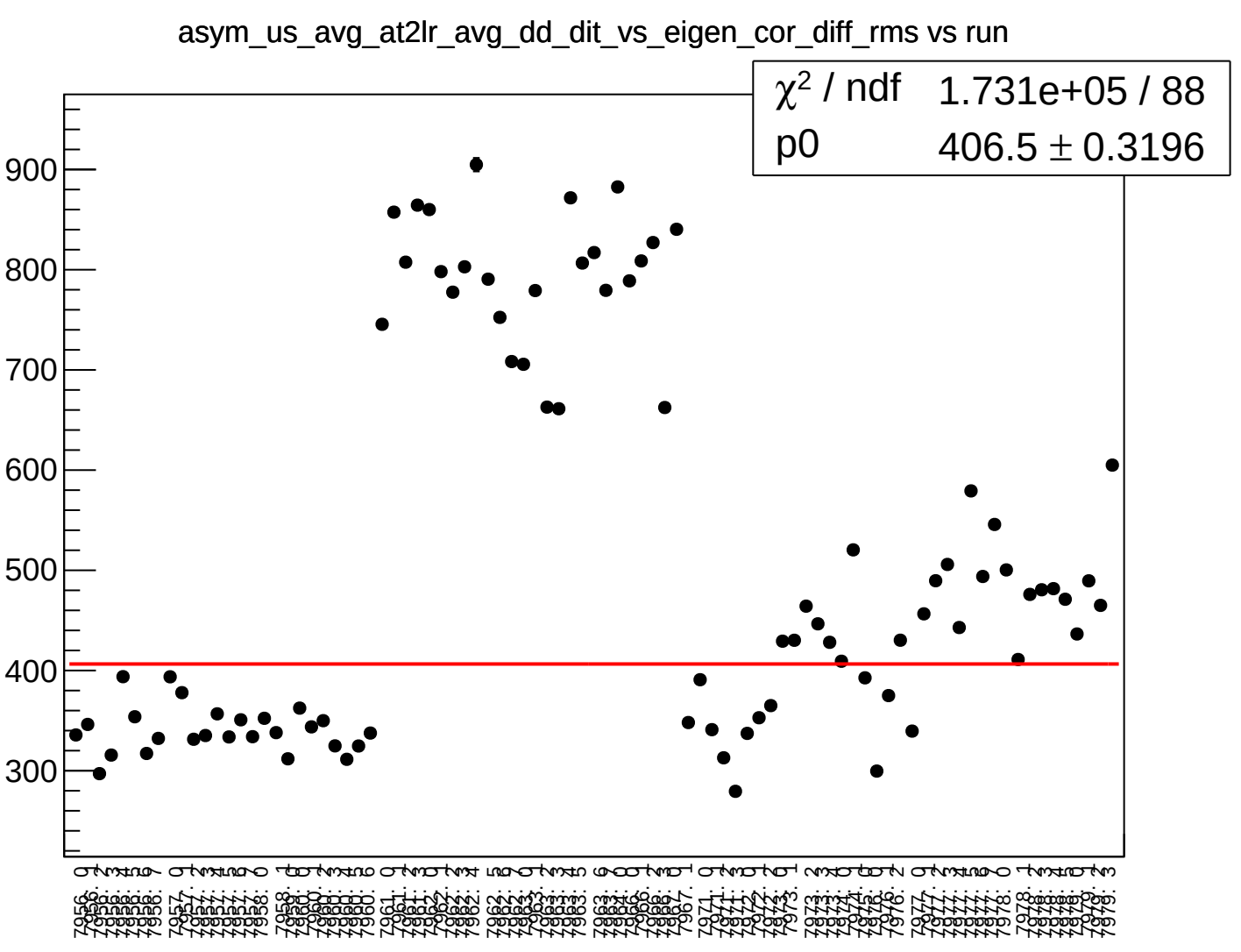

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.25 / 88
p0 3.776e−13 ± 1.237e−12
pull
Entries 89
Mean 3.358
Std Dev 0
pull1D
Entries 89
Mean 0.08691
Std Dev 1.014

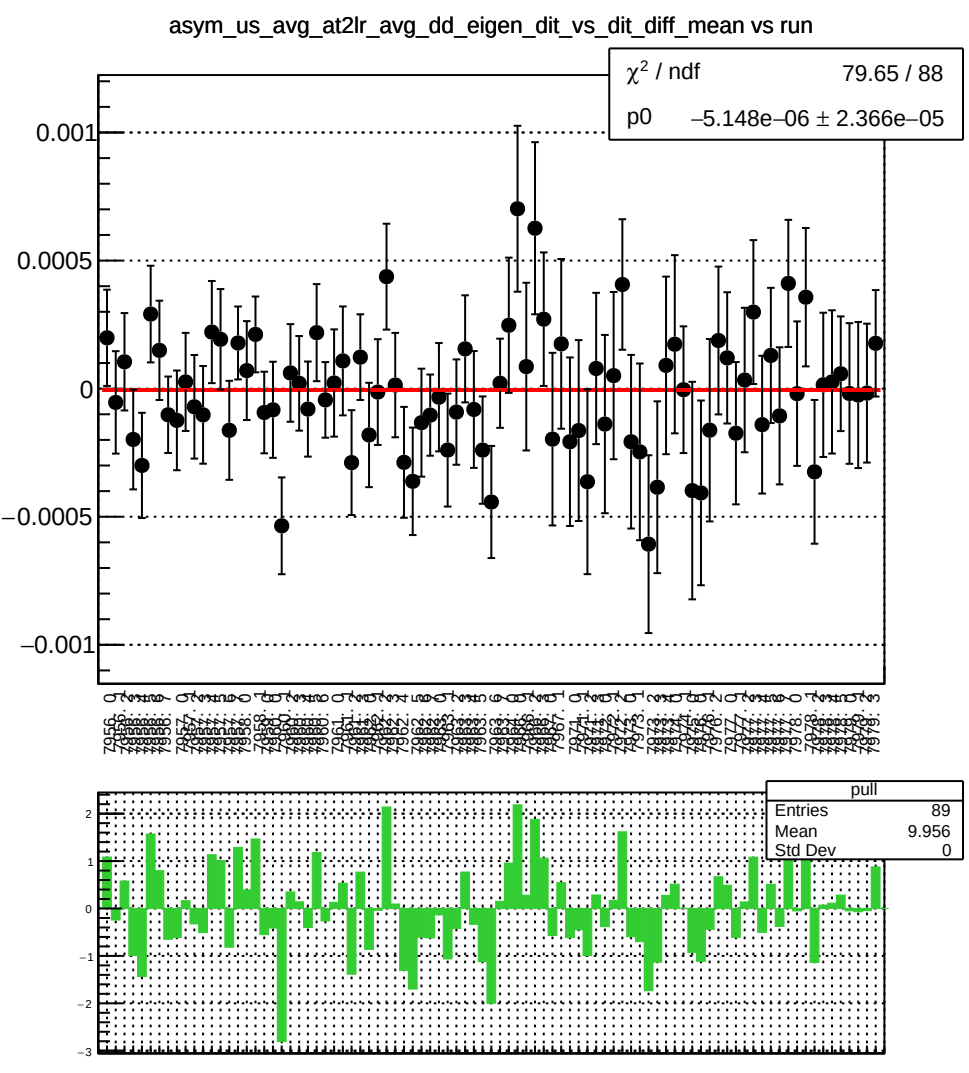

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.097e+06 / 88
p0 7.283e−10 ± 8.744e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

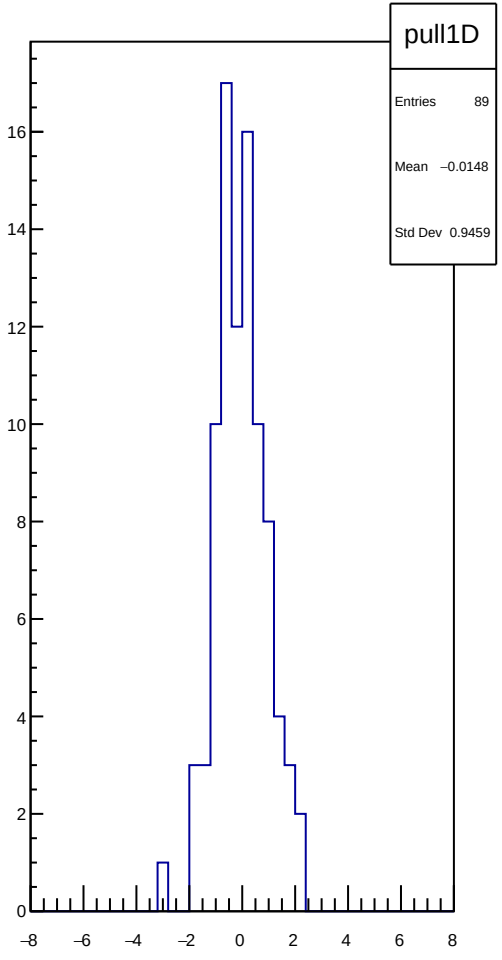

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92 / 88
p0 0.5945 ± 0.452
pull
Entries 89
Mean 189.3
Std Dev 0
pull1D
Entries 89
Mean 0.02851
Std Dev 1.016

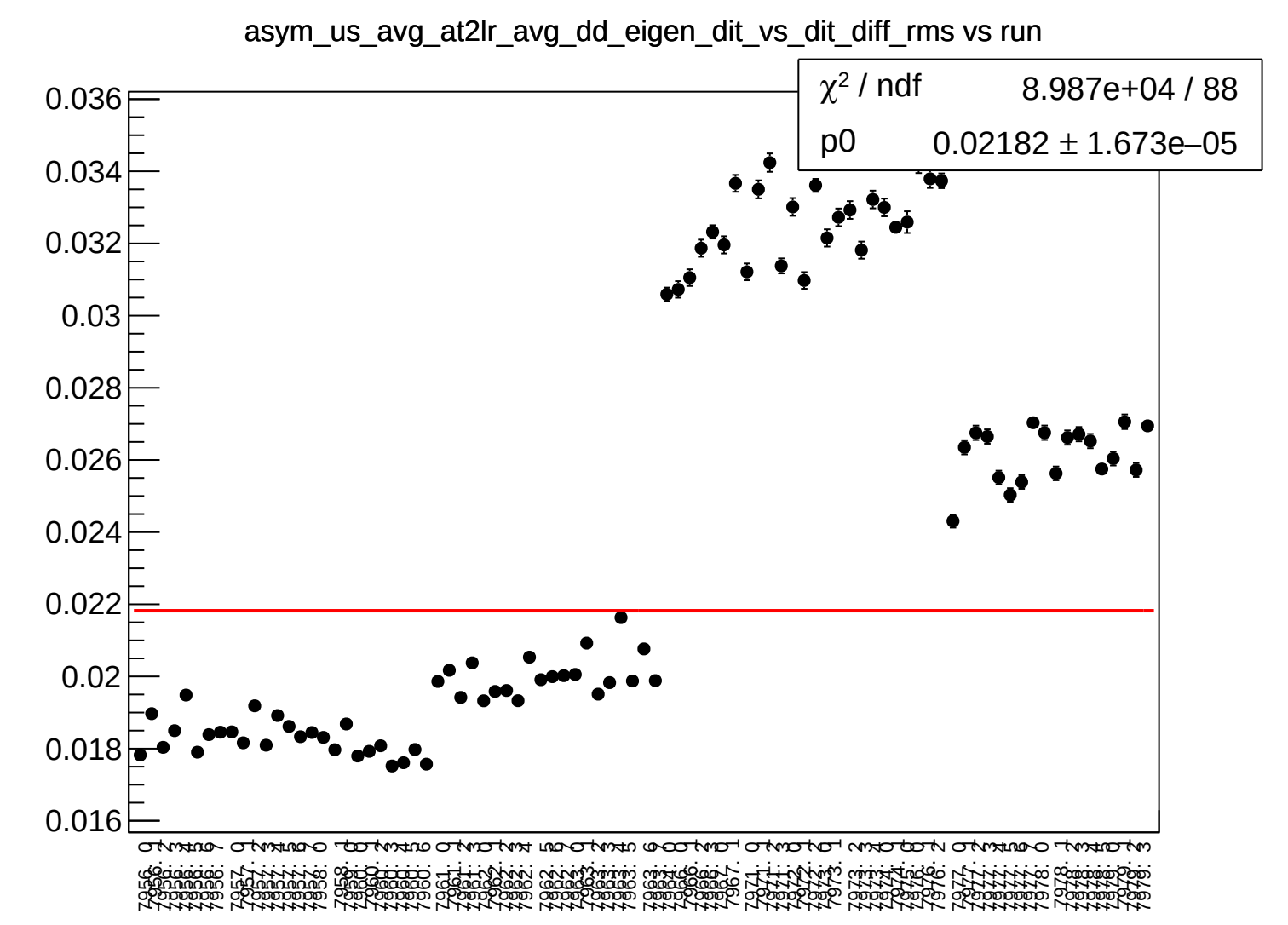

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 88
p0 406.5 ± 0.3196
900
800
700
600
500
400
300

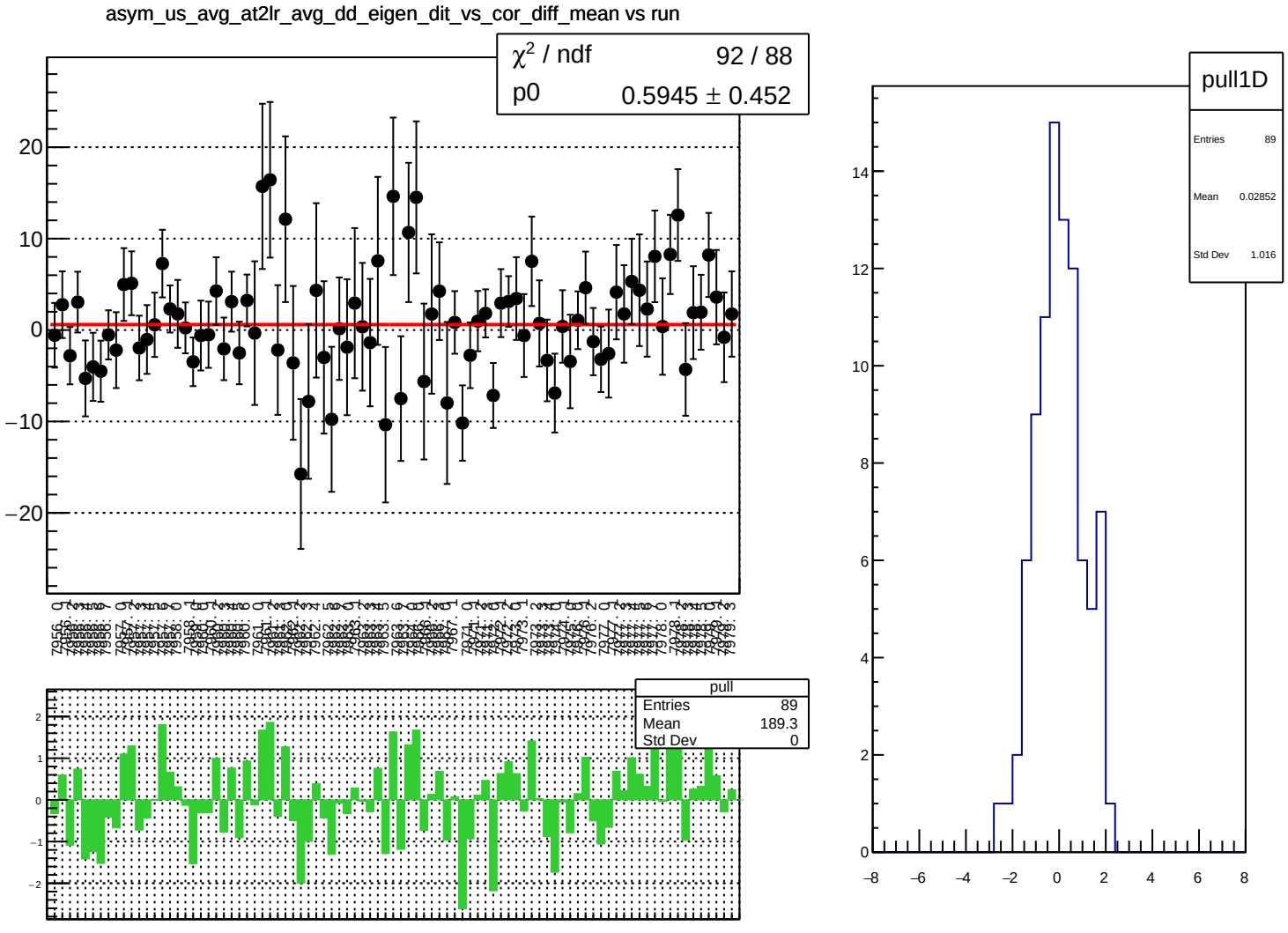

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92 / 88
p0 0.5945 ± 0.452
20
10
0
−10
−20
pull
Entries 89
Mean 189.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02851
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

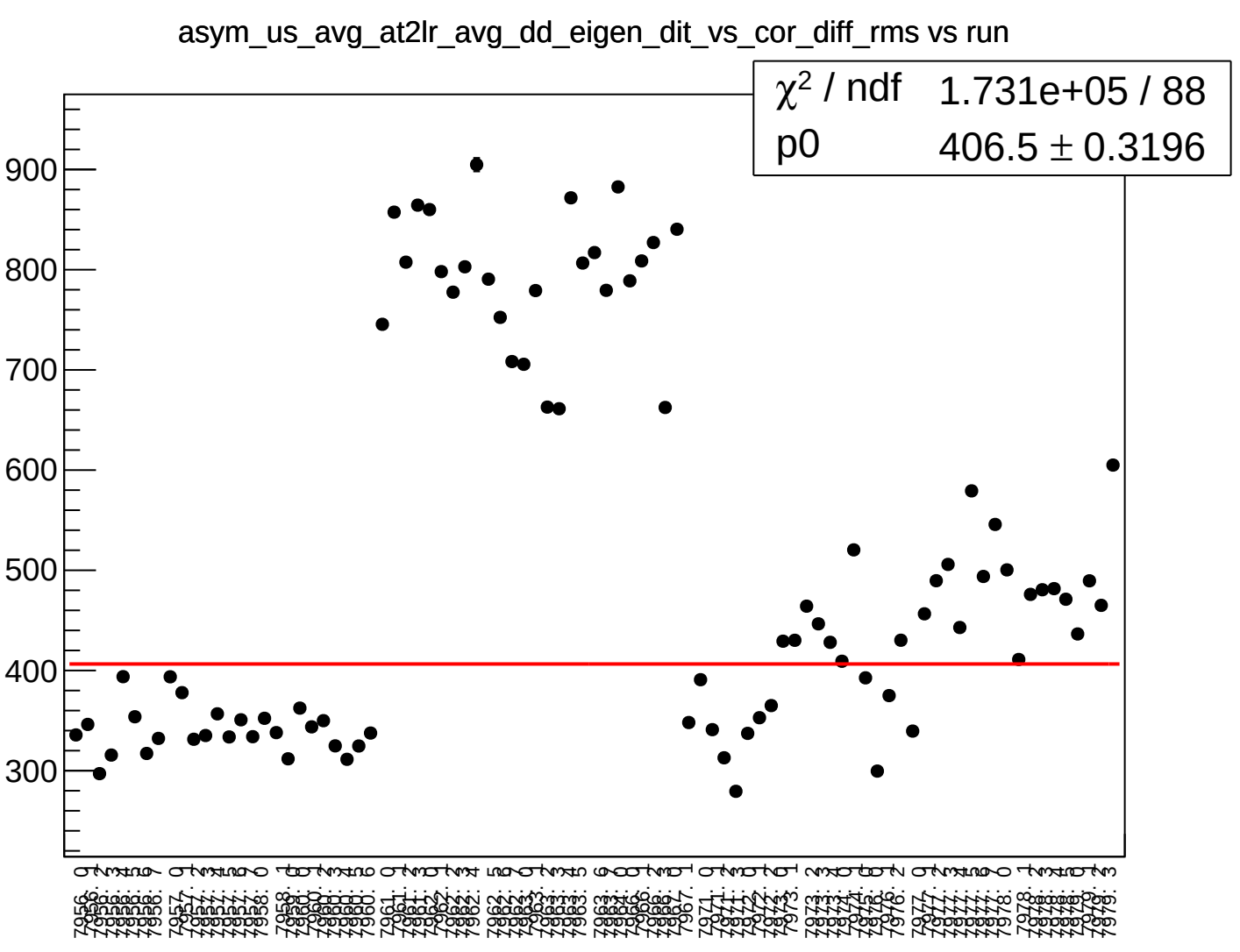

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 88
p0 406.5 ± 0.3196
900
800
700
600
500
400
300

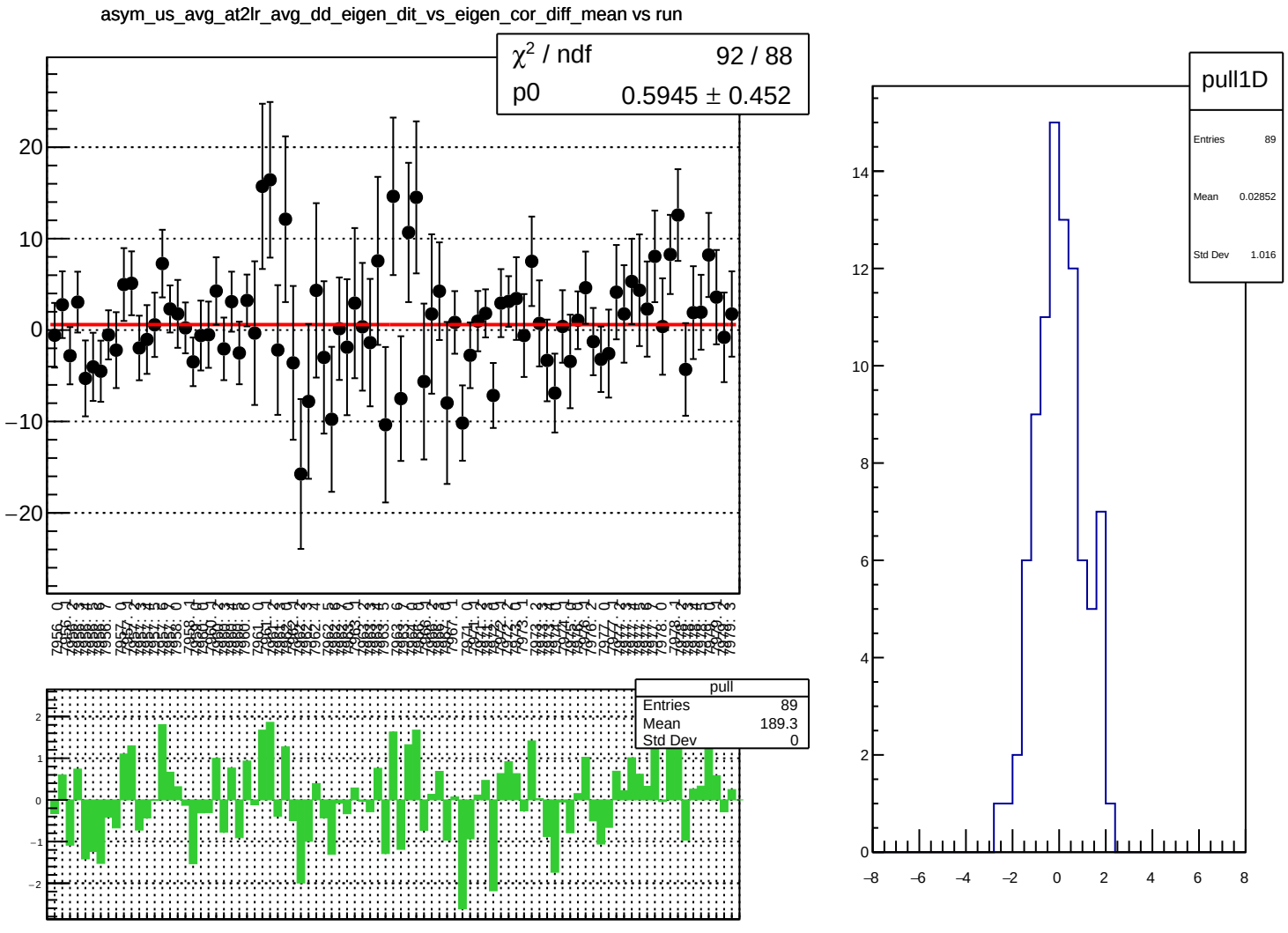

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 79.65 / 88
p0 −5.148e−06 ± 2.366e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 9.956
Std Dev 0
2
1
0
−1
−2
−3

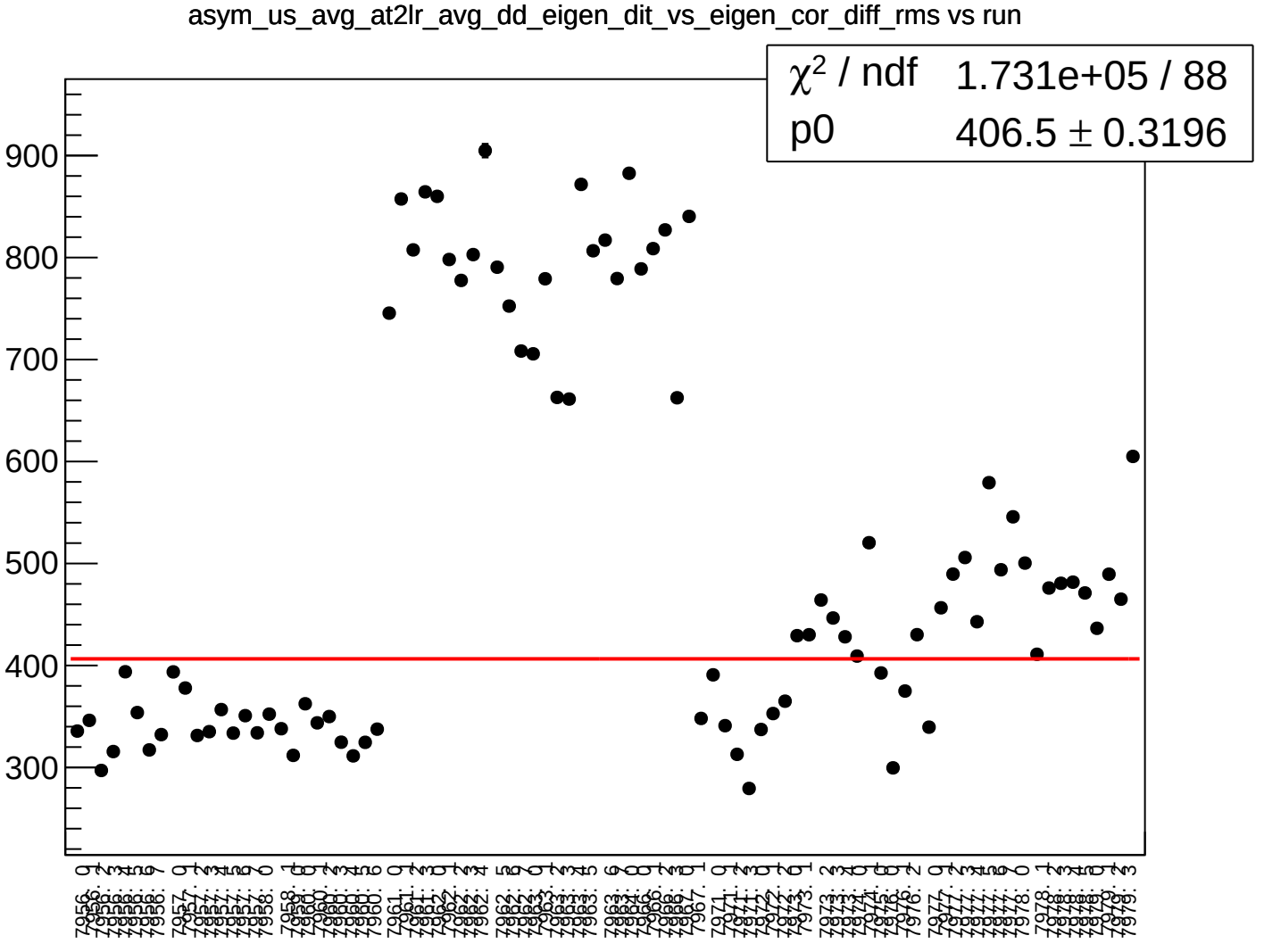

pull1D
Entries 89
Mean −0.0148
Std Dev 0.9459
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

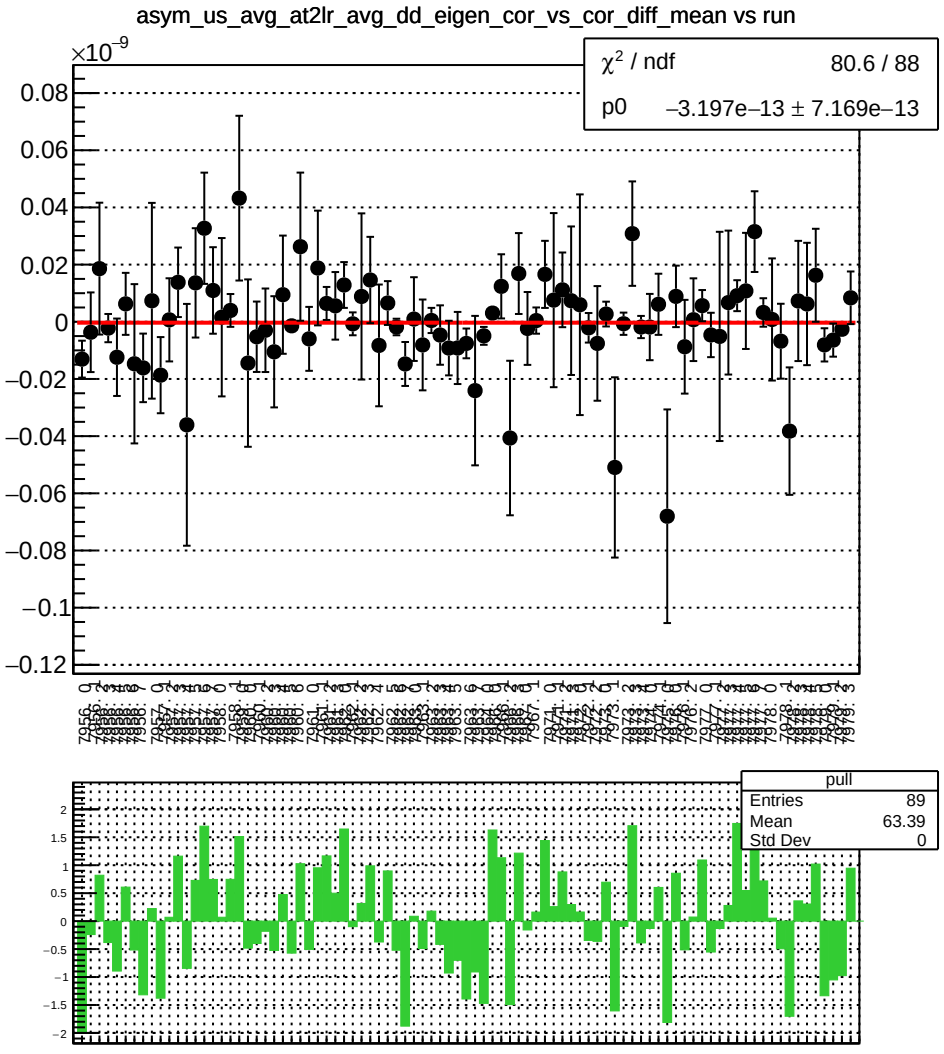

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.987e+04 / 88
p0 0.02182 ± 1.673e−05
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

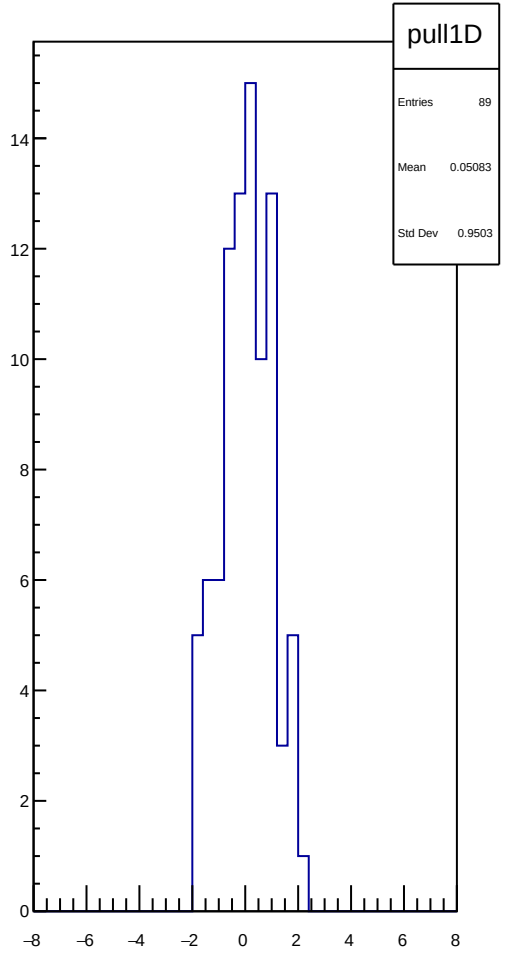

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92 / 88
p0 0.5945 ± 0.452
pull
Entries 89
Mean 189.3
Std Dev 0
pull1D
Entries 89
Mean 0.02852
Std Dev 1.016

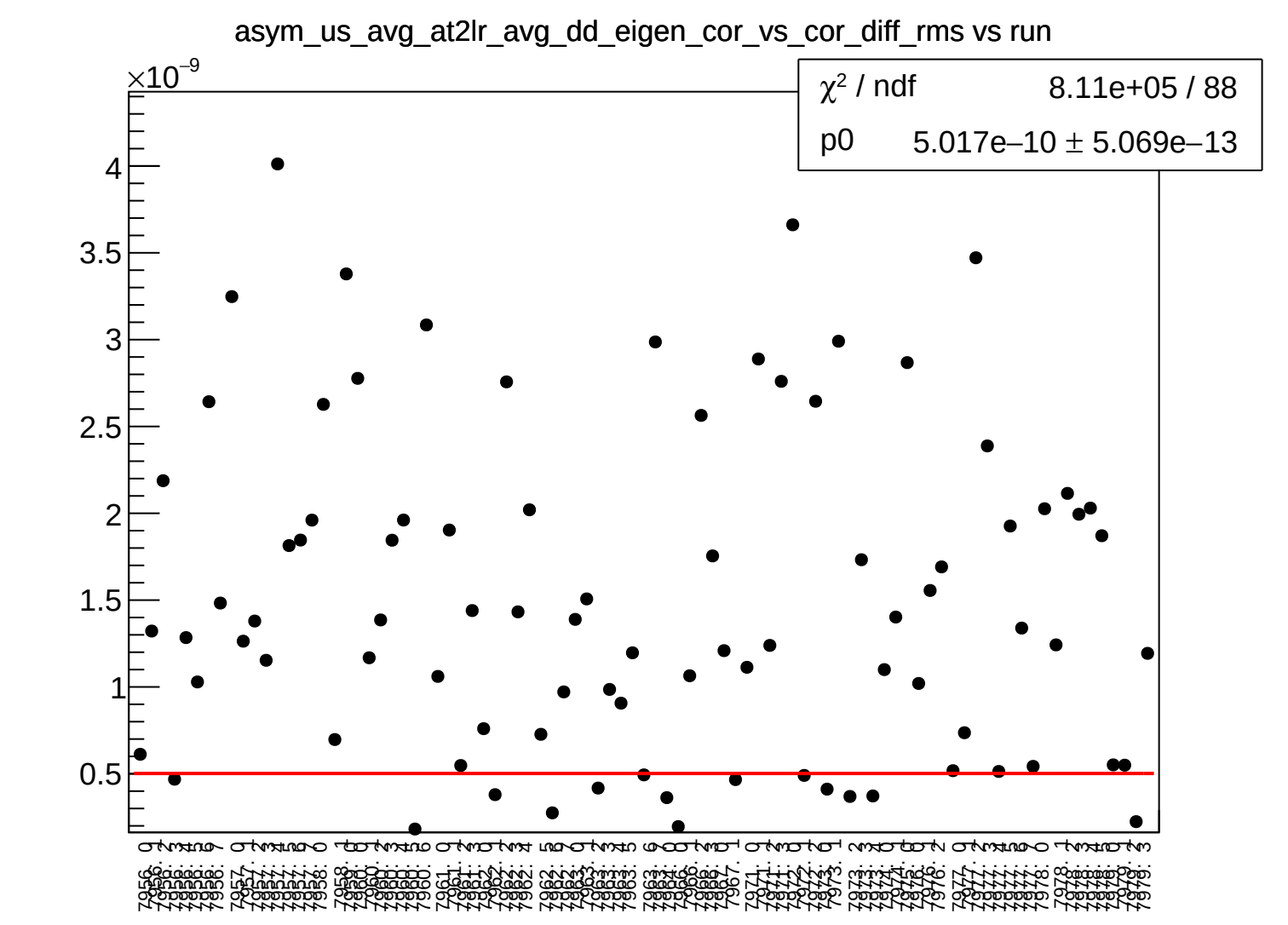

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 88
p0 406.5 ± 0.3196
900
800
700
600
500
400
300

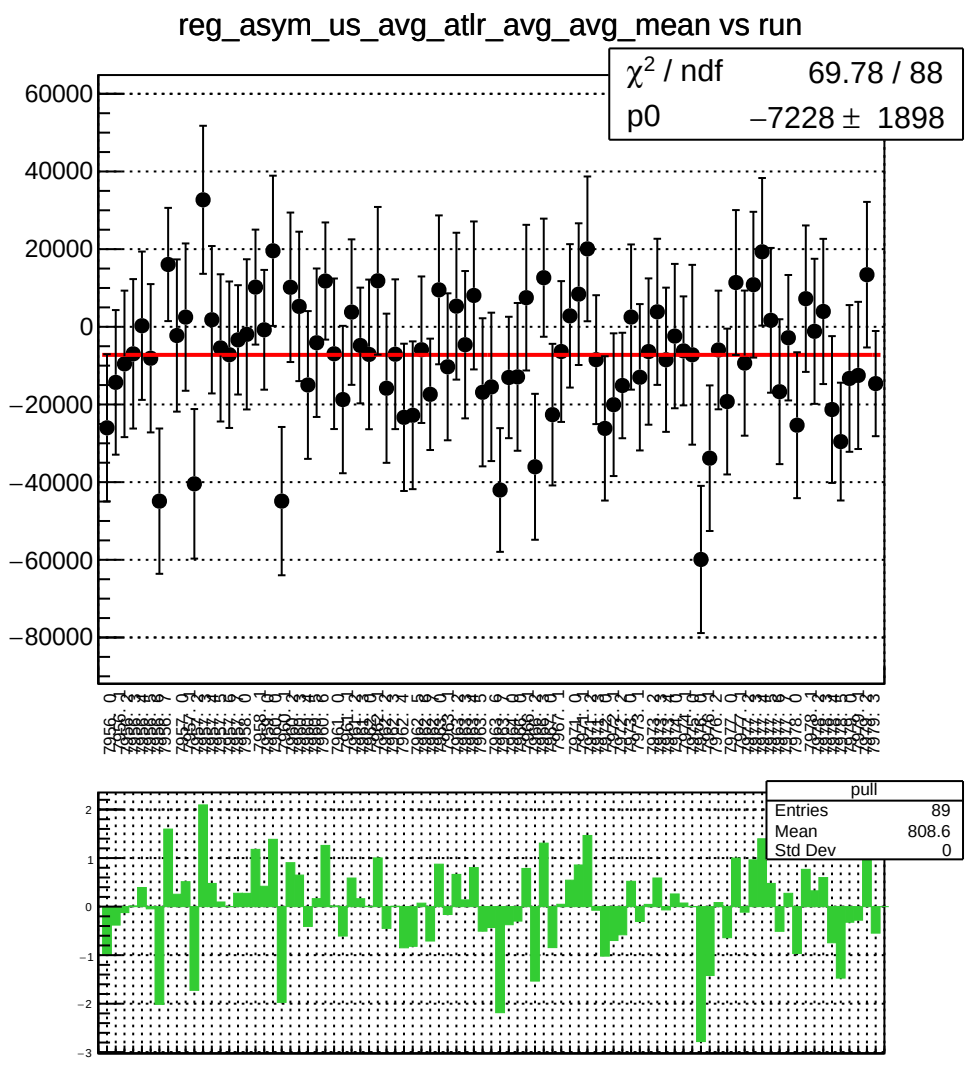

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92 / 88
p0 0.5945 ± 0.452
pull
Entries 89
Mean 189.3
Std Dev 0
pull1D
Entries 89
Mean 0.02852
Std Dev 1.016

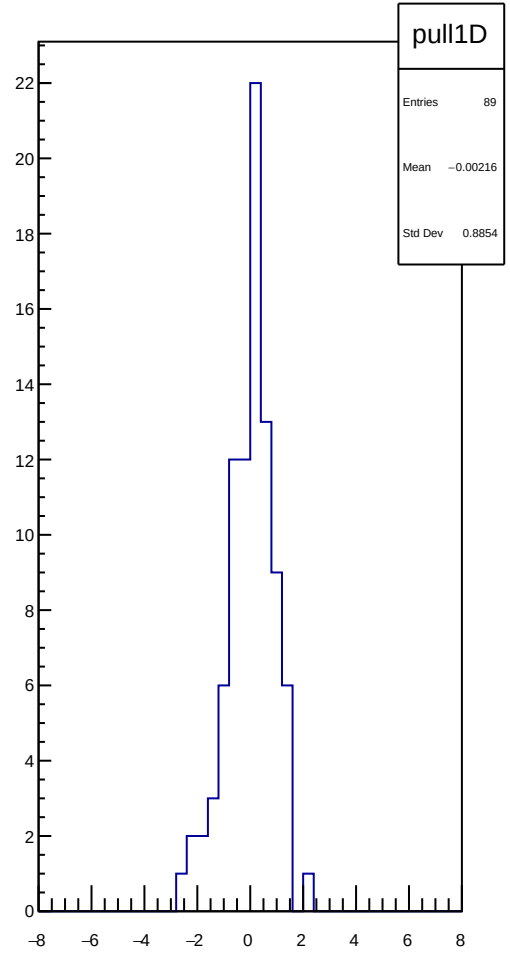

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 88
p0 406.5 ± 0.3196
900
800
700
600
500
400
300

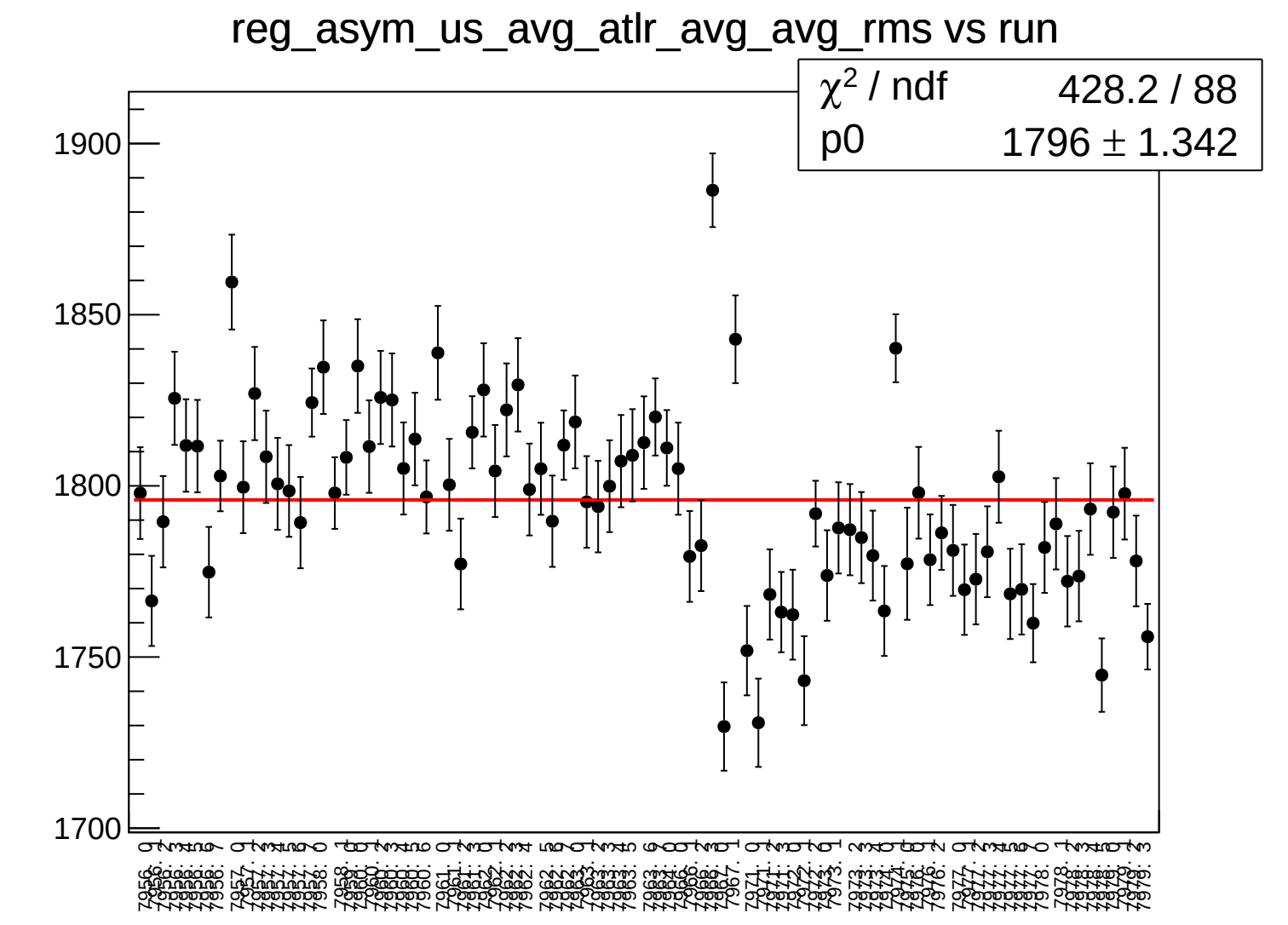

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 80.6 / 88
p0 −3.197e−13 ± 7.169e−13
pull
Entries 89
Mean 63.39
Std Dev 0

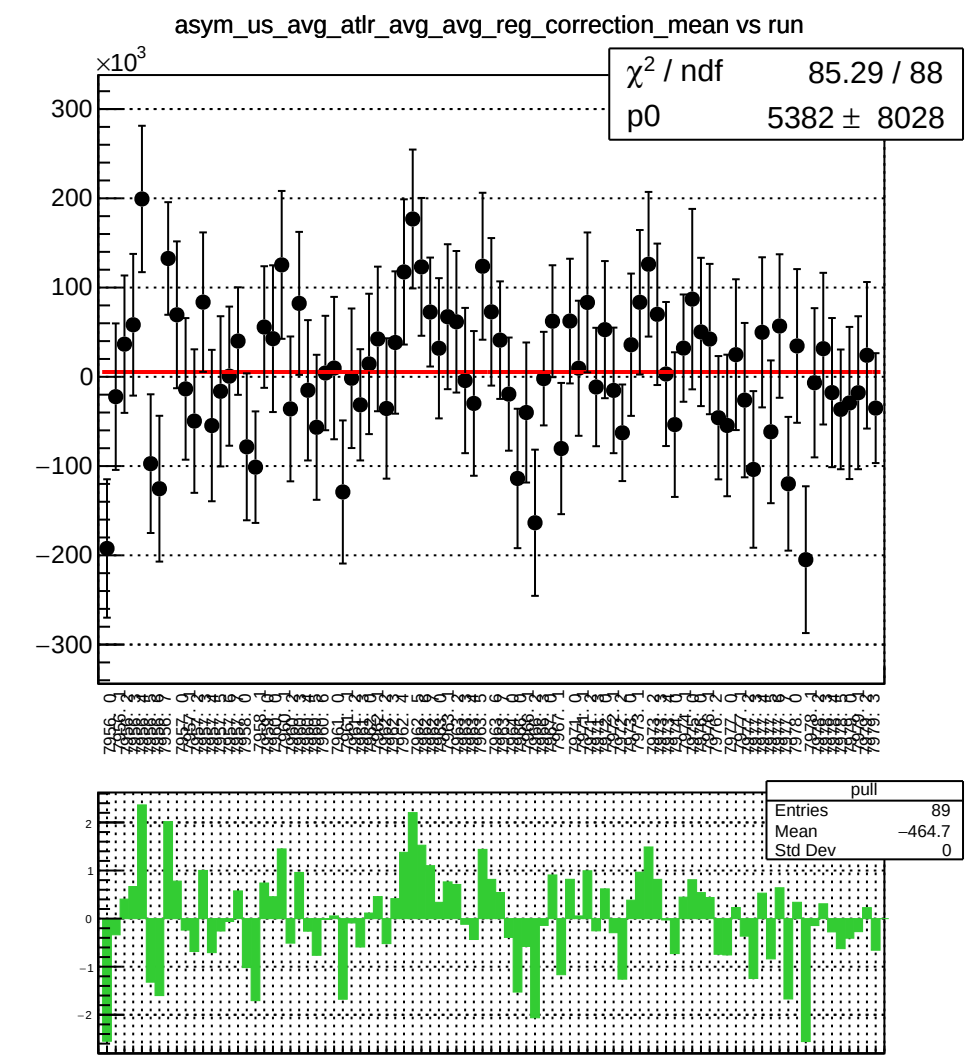

pull1D
Entries 89
Mean 0.05083
Std Dev 0.9503

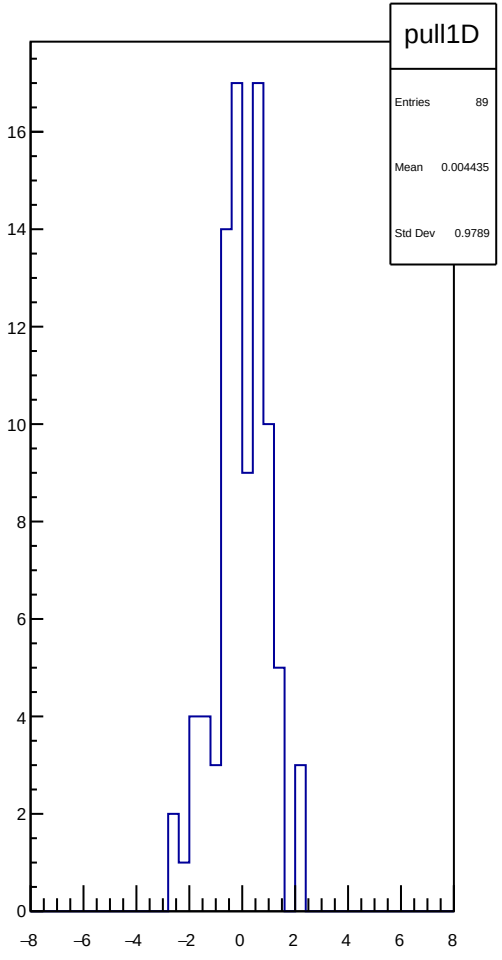

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.11e+05 / 88
p0 5.017e−10 ± 5.069e−13
4
3.5
3
2.5
2
1.5
1
0.5

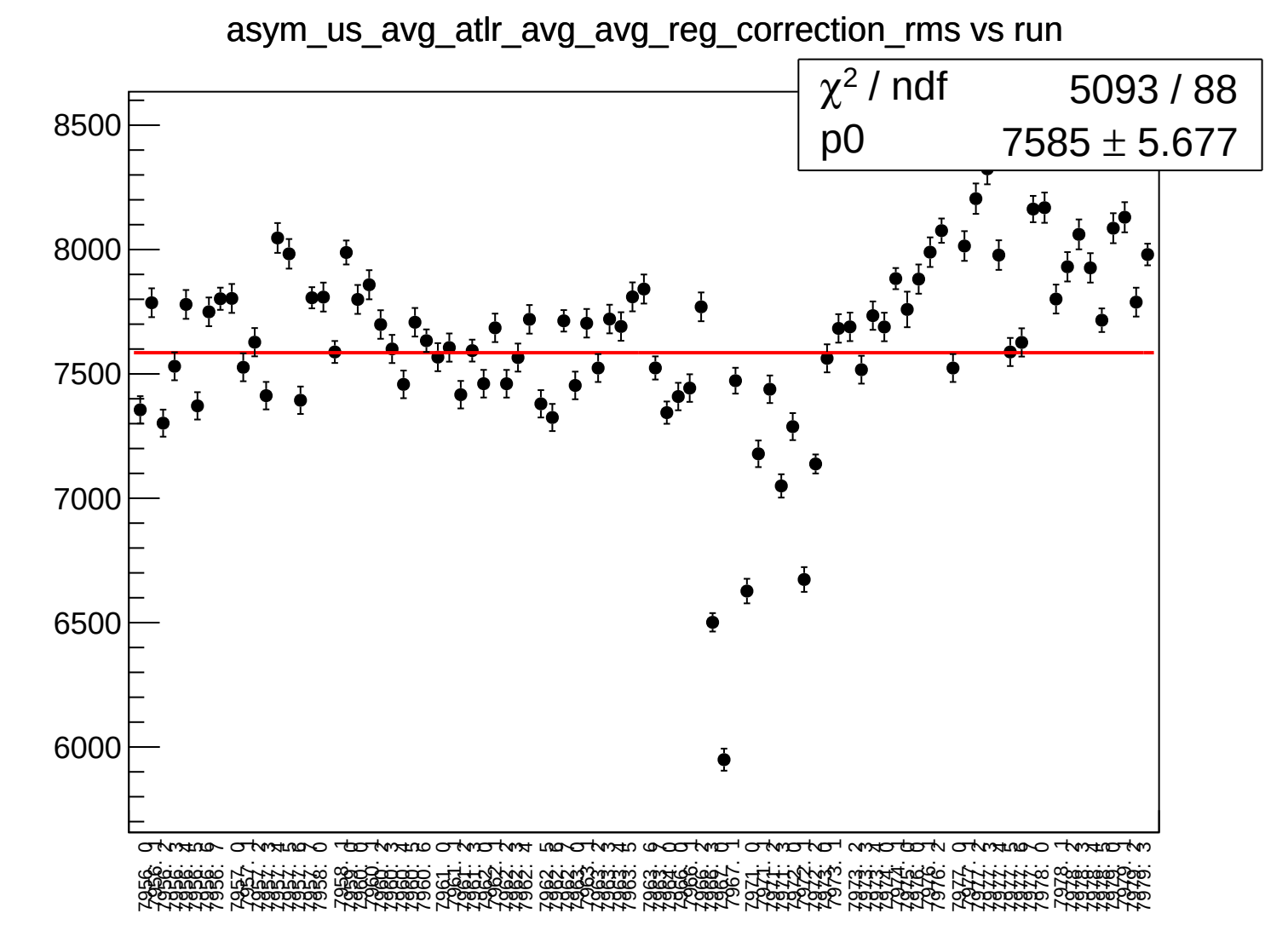

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 69.78 / 88
p0 −7228 ± 1898
pull
Entries 89
Mean 808.6
Std Dev 0

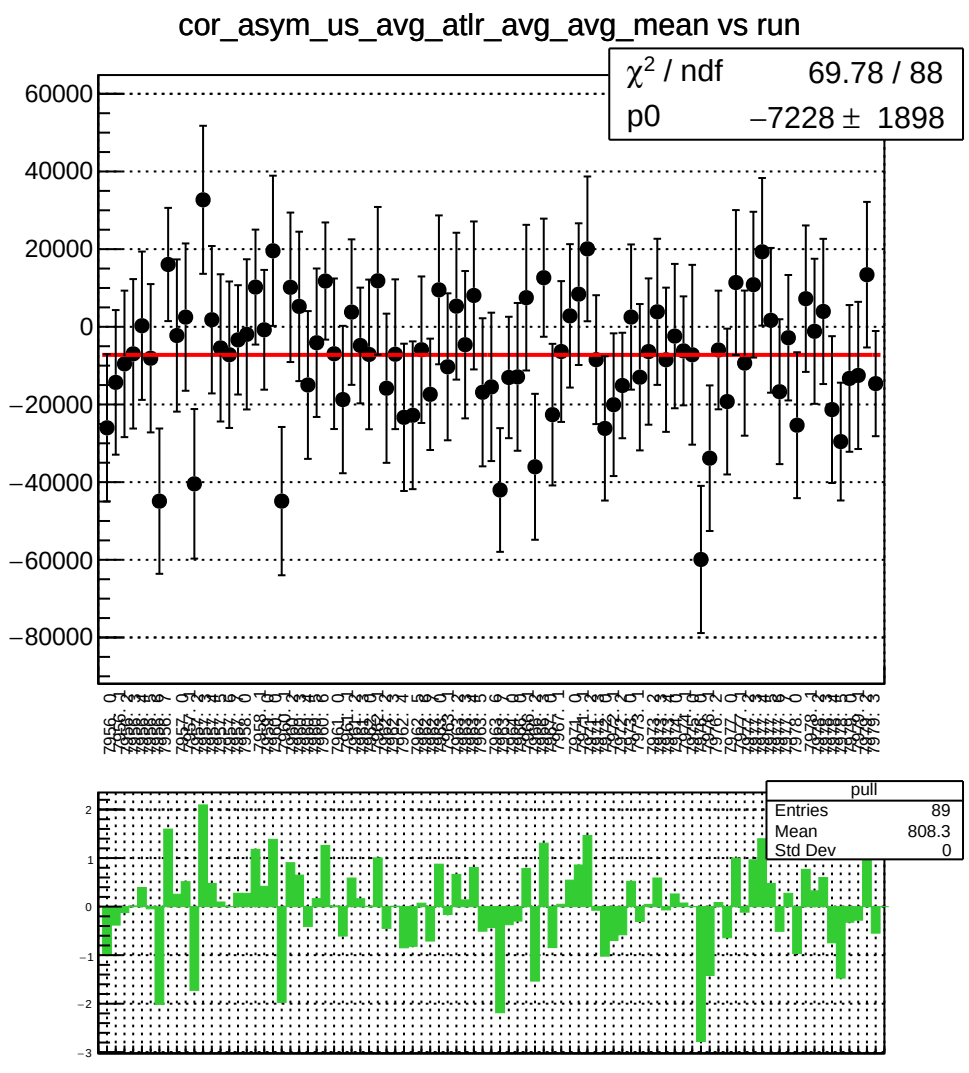

pull1D
Entries 89
Mean −0.00216
Std Dev 0.8854

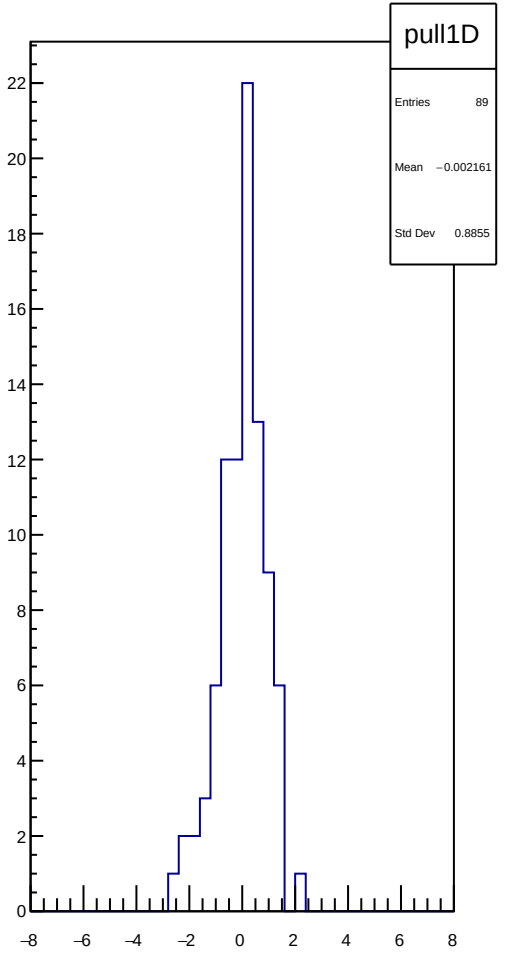

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 428.2 / 88
p0 1796 ± 1.342
1900
1850
1800
1750
1700

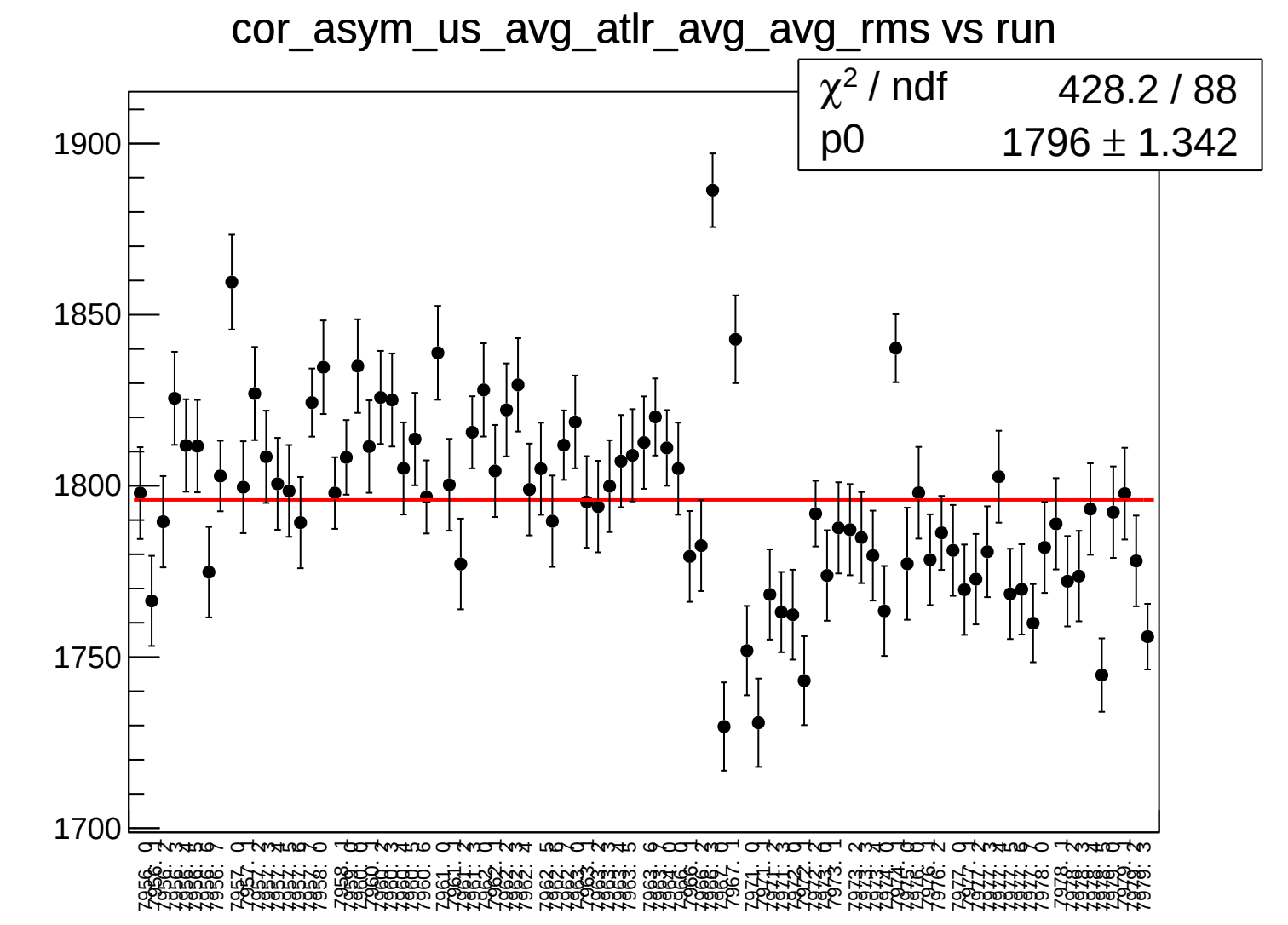

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.29 / 88
p0 5382 ± 8028
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −464.7
Std Dev 0
2
1
0
−1
−2

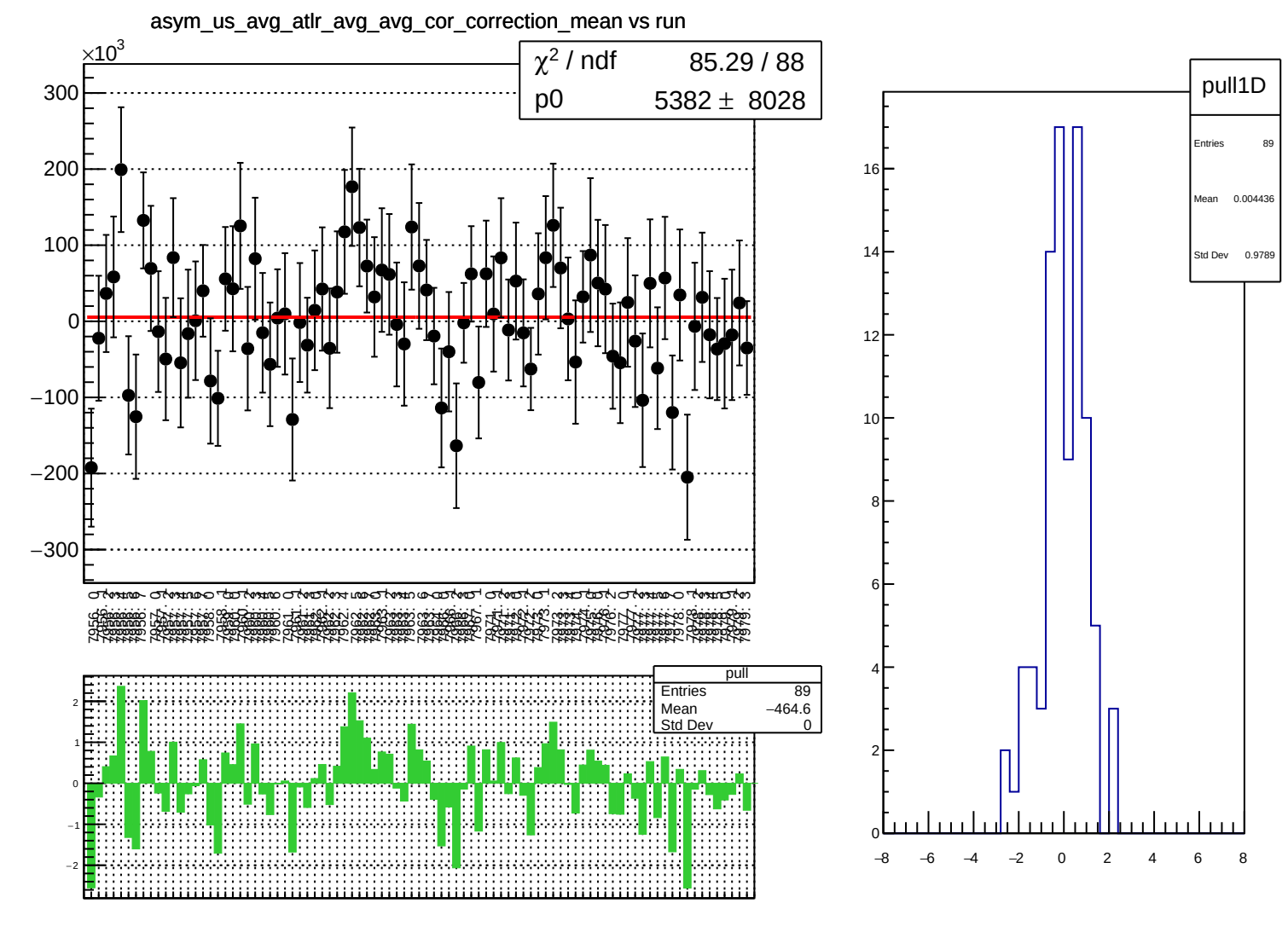

pull1D
Entries 89
Mean 0.004435
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

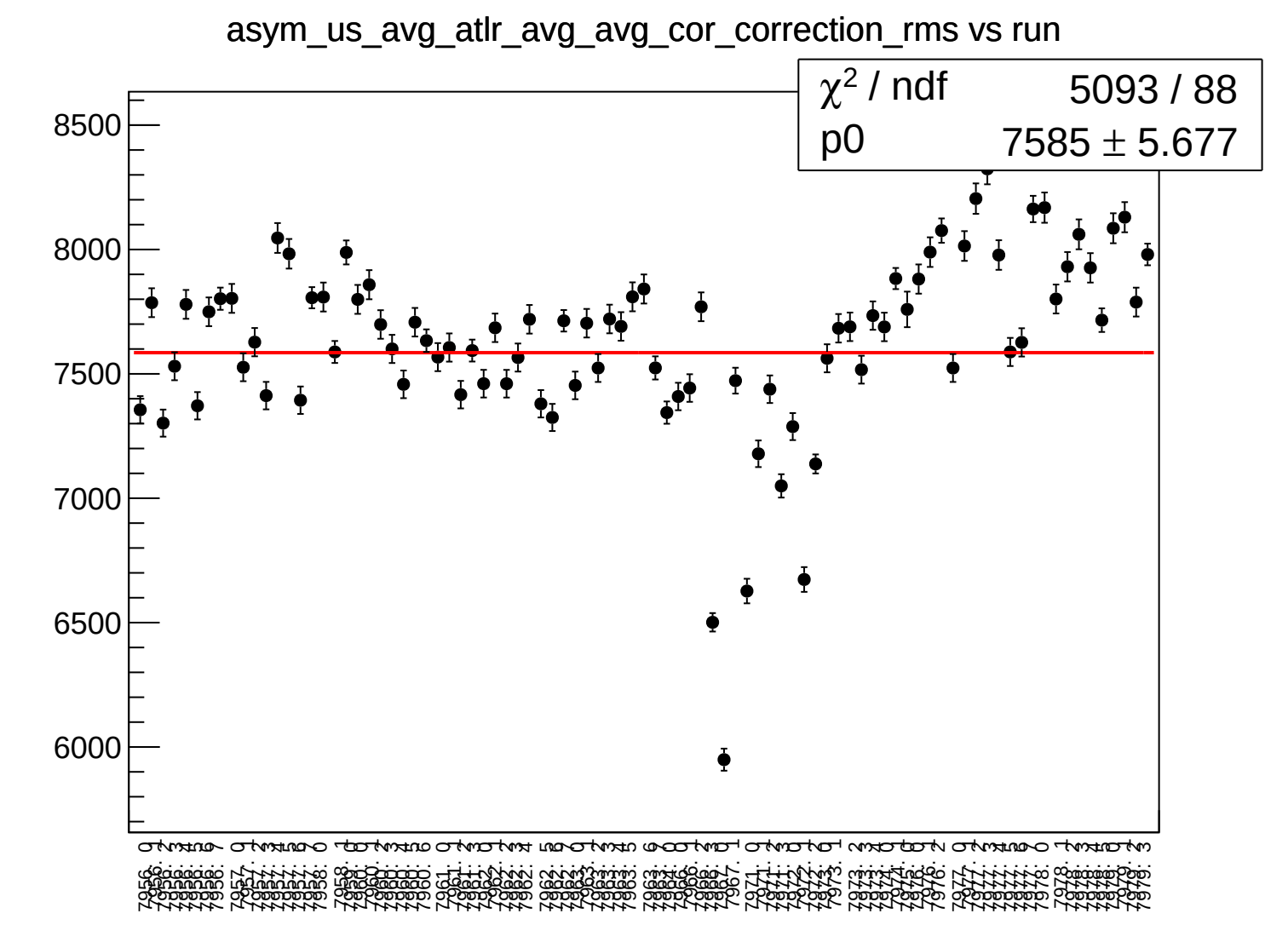

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 5093 / 88
p0 7585 ± 5.677
8500
8000
7500
7000
6500
6000

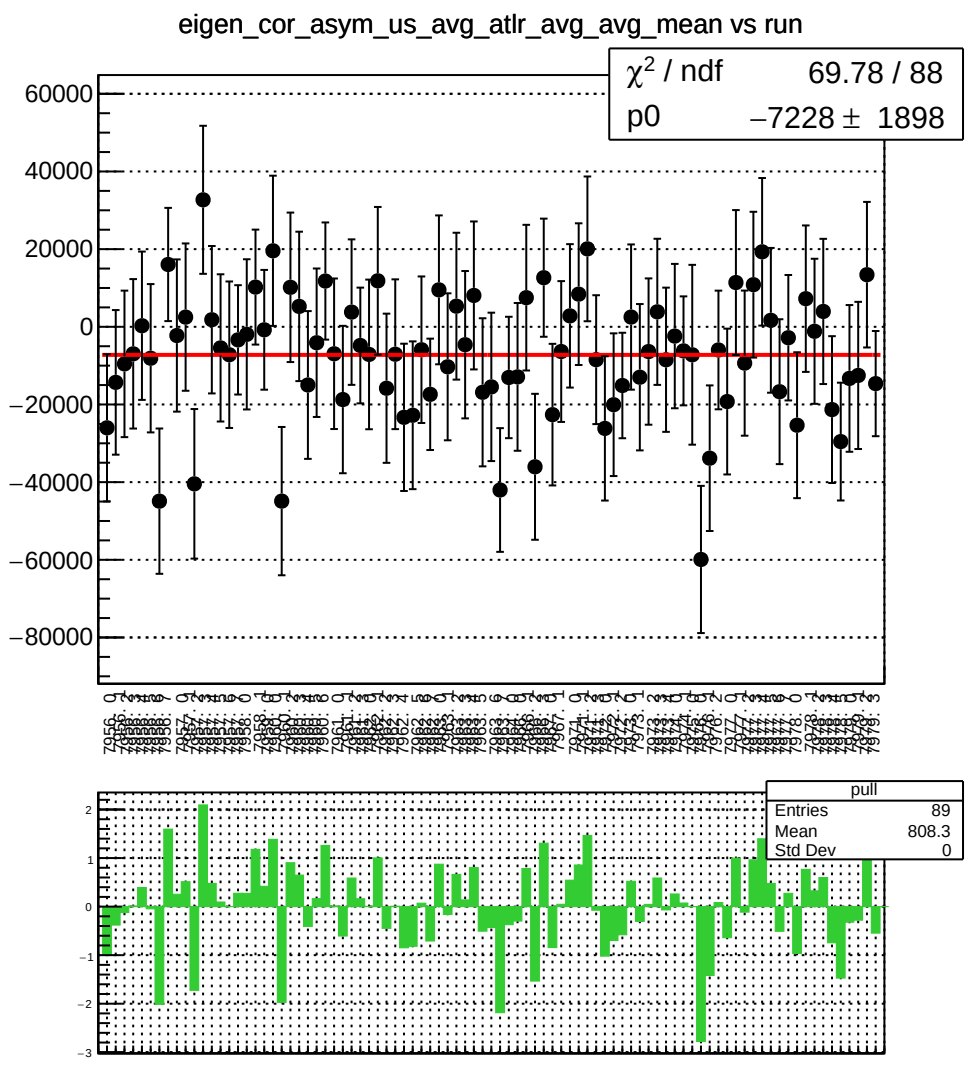

cor_asym_us_avg_atlr_avg_avg_mean vs run
$\chi^2$ / ndf 69.78 / 88
p0 −7228 ± 1898
pull
Entries 89
Mean 808.3
Std Dev 0

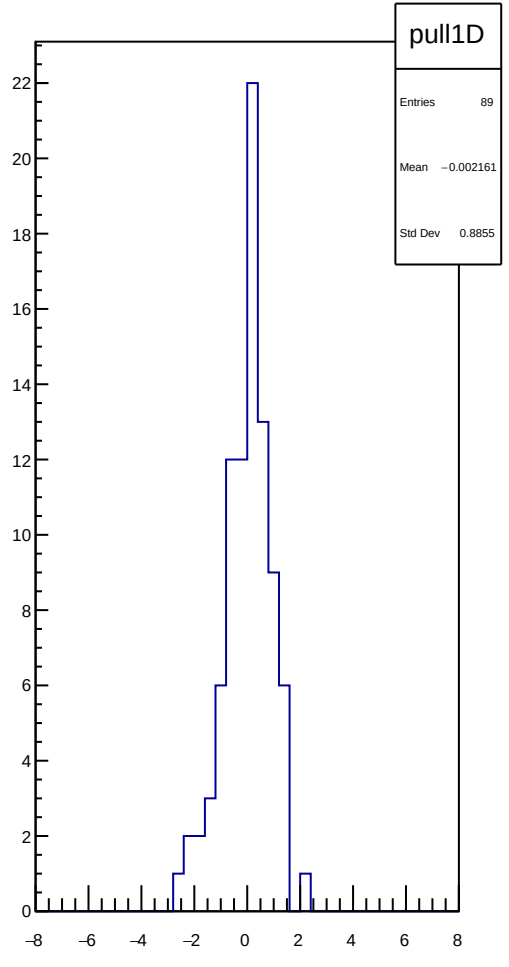

pull1D
Entries 89
Mean −0.002161
Std Dev 0.8855

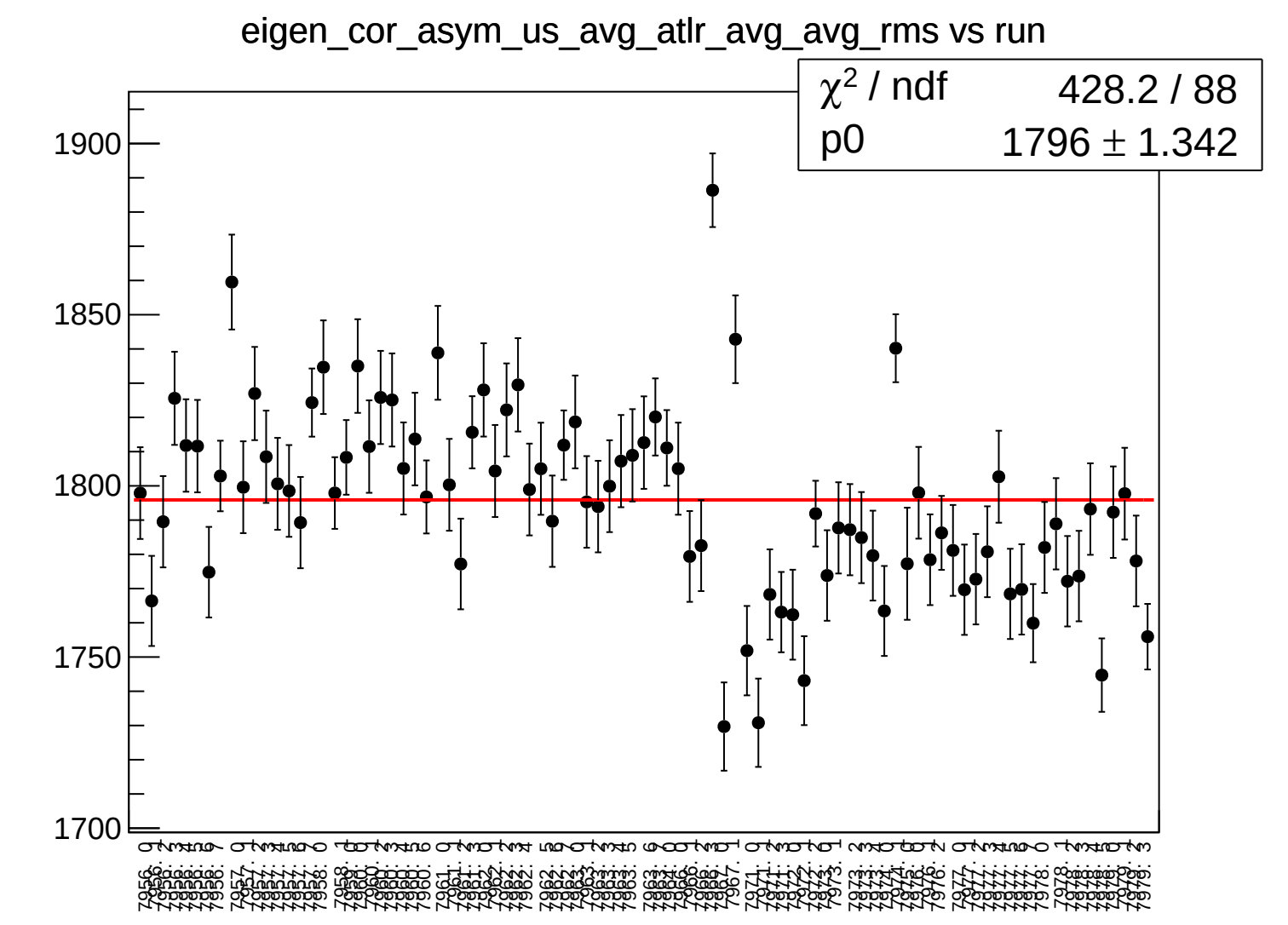

cor_asym_us_avg_atlr_avg_avg_rms vs run
$\chi^2$ / ndf 428.2 / 88
p0 1796 ± 1.342
1900
1850
1800
1750
1700

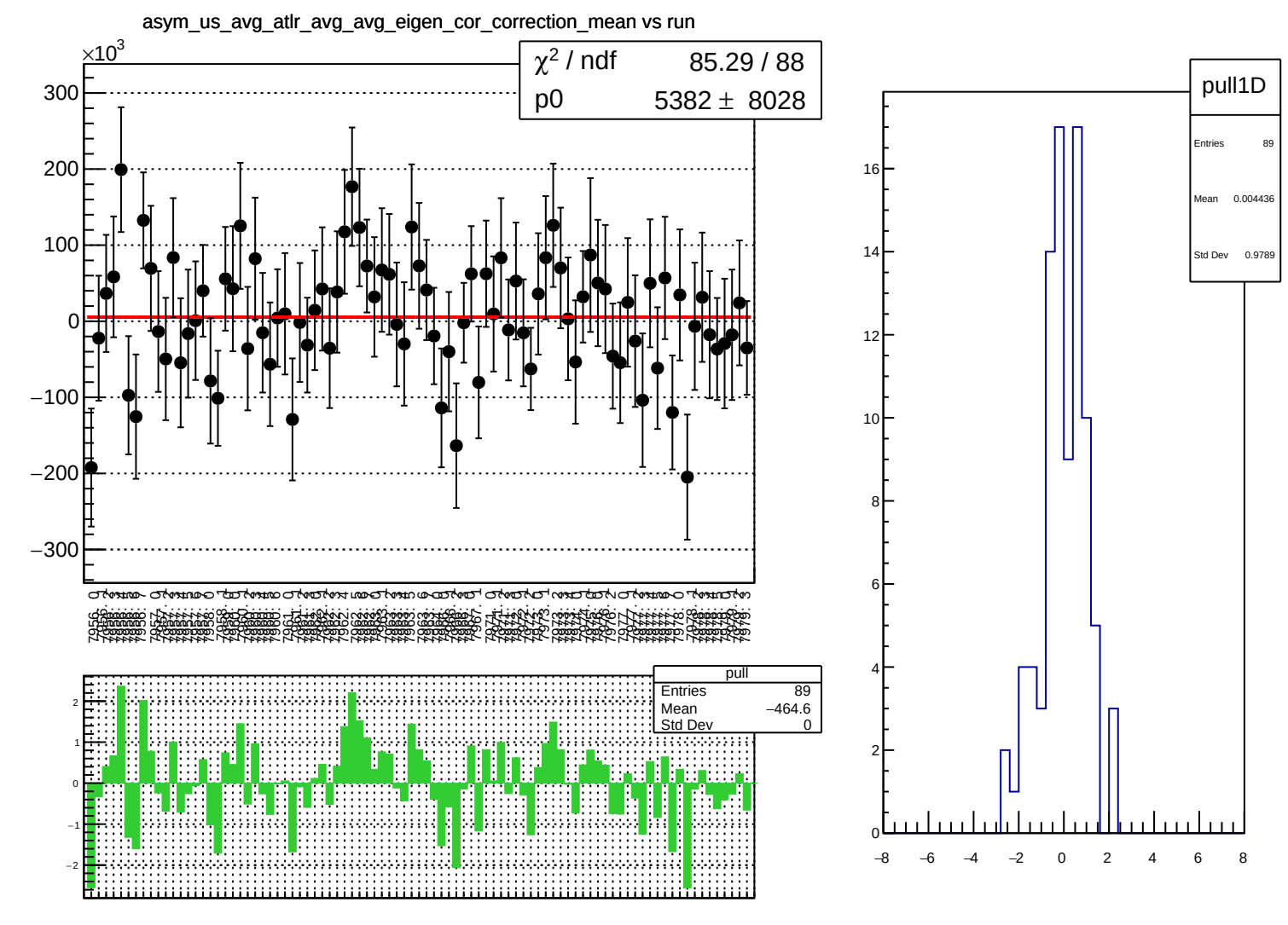

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.29 / 88
p0 5382 ± 8028
pull
Entries 89
Mean −464.6
Std Dev 0
pull1D
Entries 89
Mean 0.004436
Std Dev 0.9789

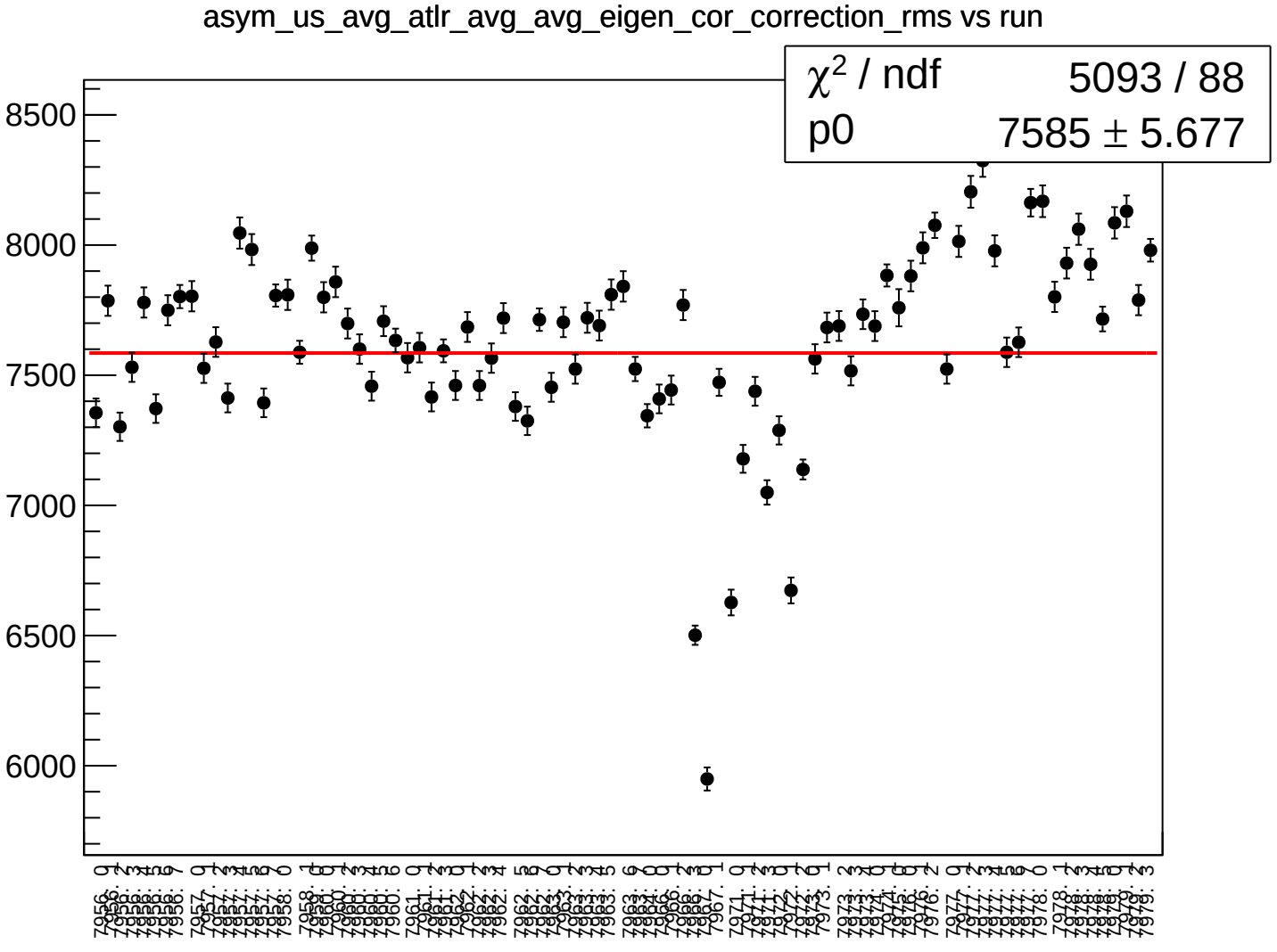

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 5093 / 88
p0 7585 ± 5.677
8500
8000
7500
7000
6500
6000

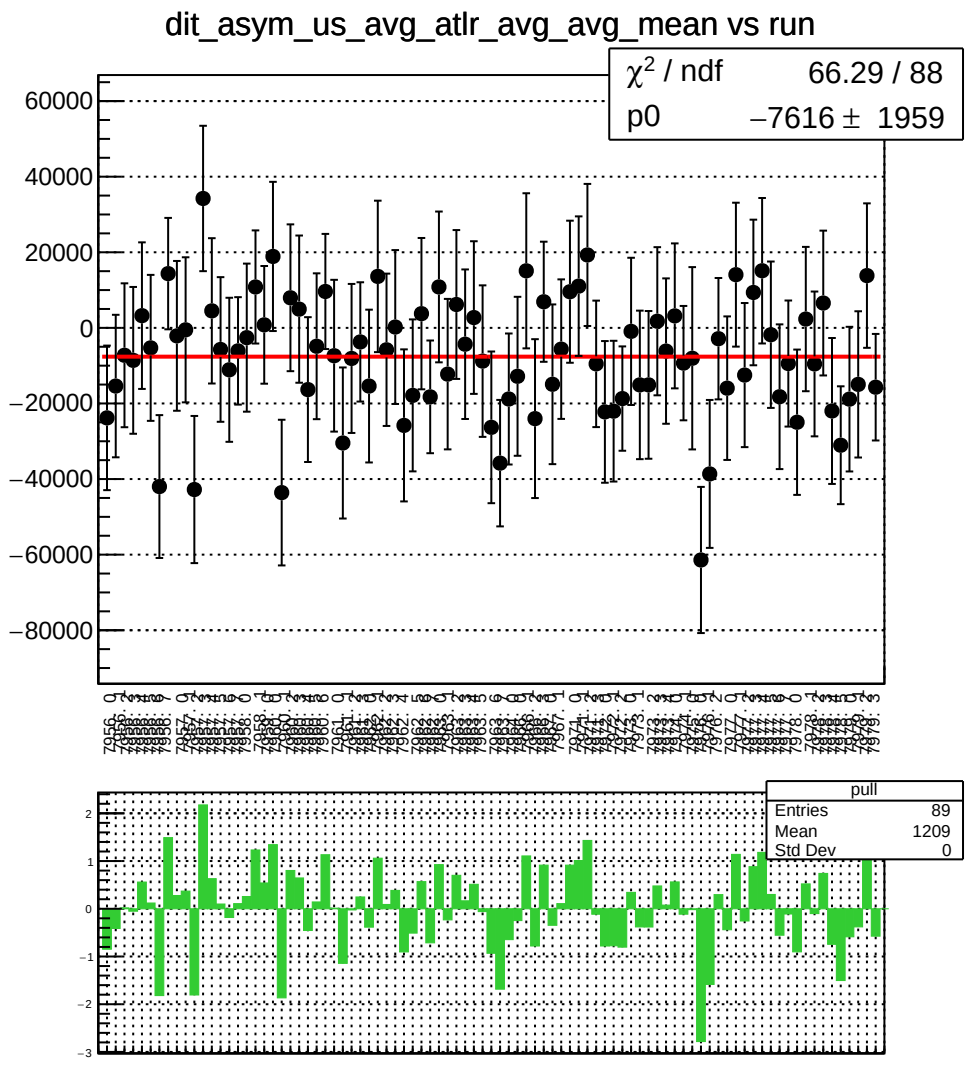

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 69.78 / 88
p0 −7228 ± 1898
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 808.3
Std Dev 0
2
1
0
−1
−2
−3

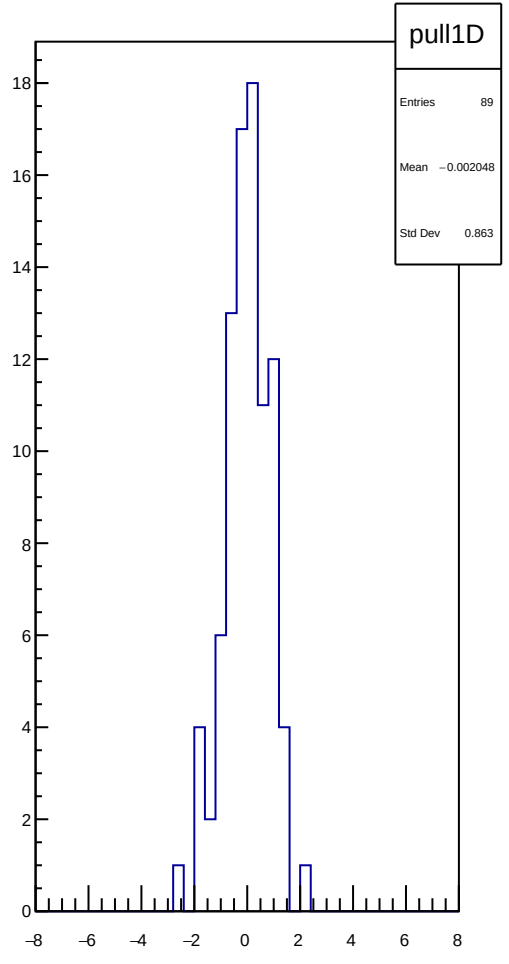

pull1D
Entries 89
Mean −0.002161
Std Dev 0.8855
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

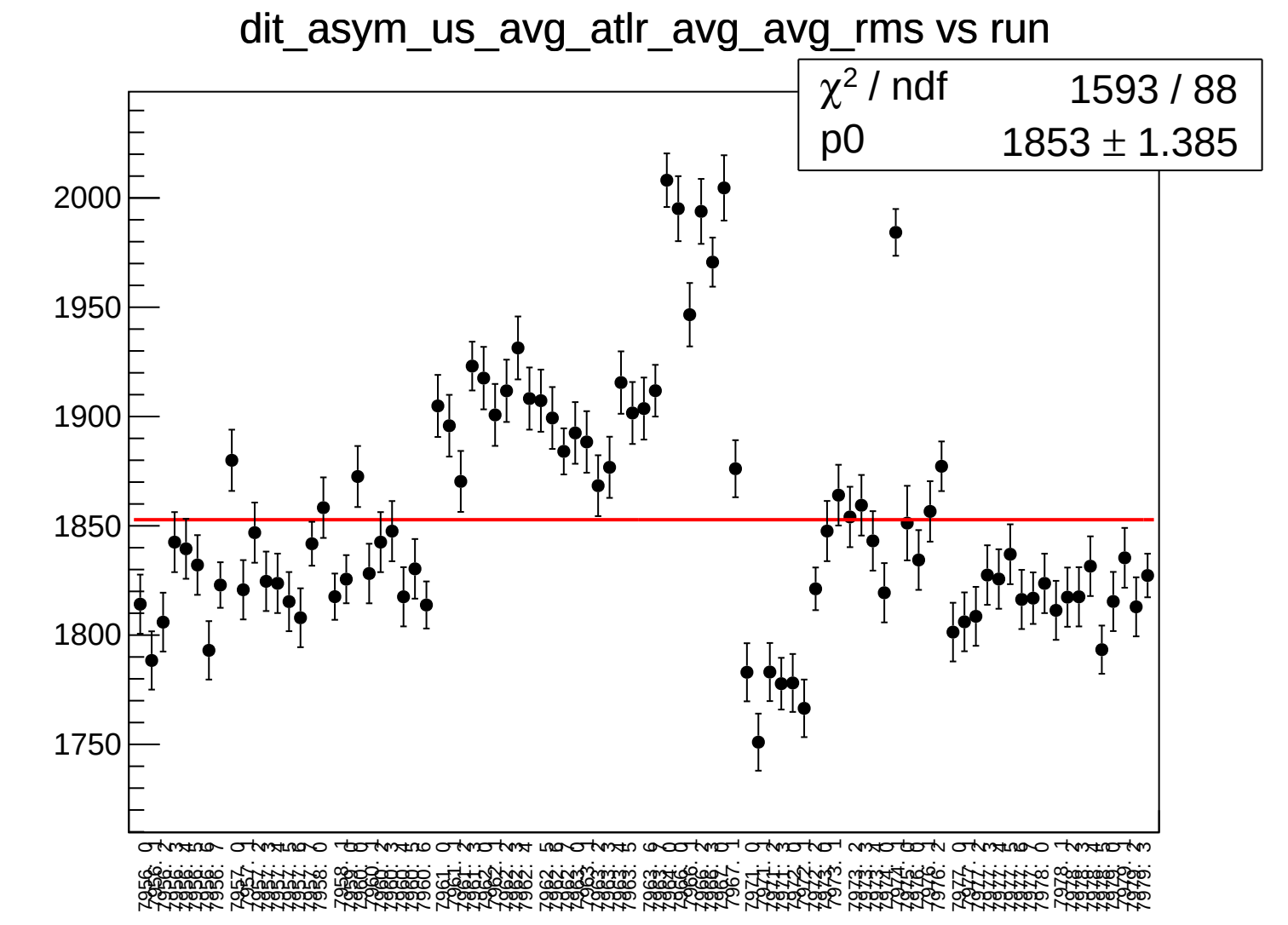

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 428.2 / 88
p0 1796 ± 1.342
1900
1850
1800
1750
1700

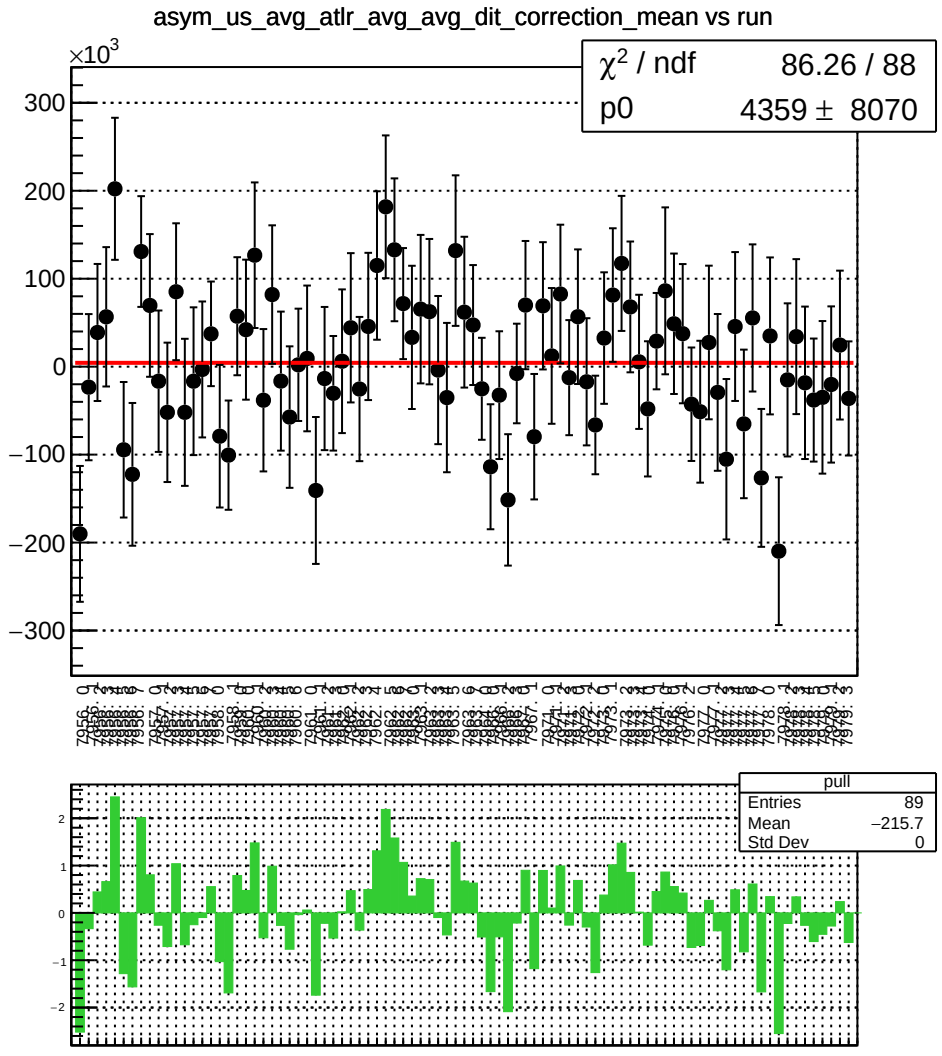

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.29 / 88
p0 5382 ± 8028
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −464.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.004436
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

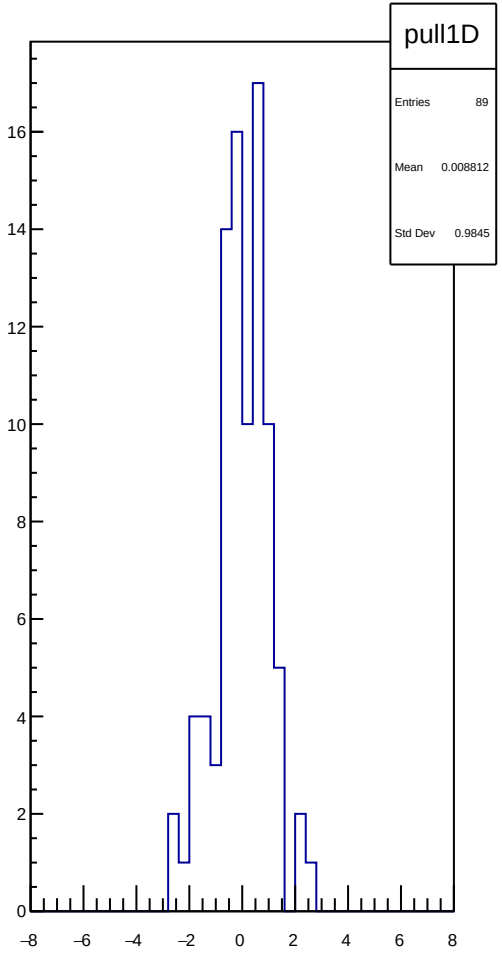

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5093 / 88
p0 7585 ± 5.677
8500
8000
7500
7000
6500
6000

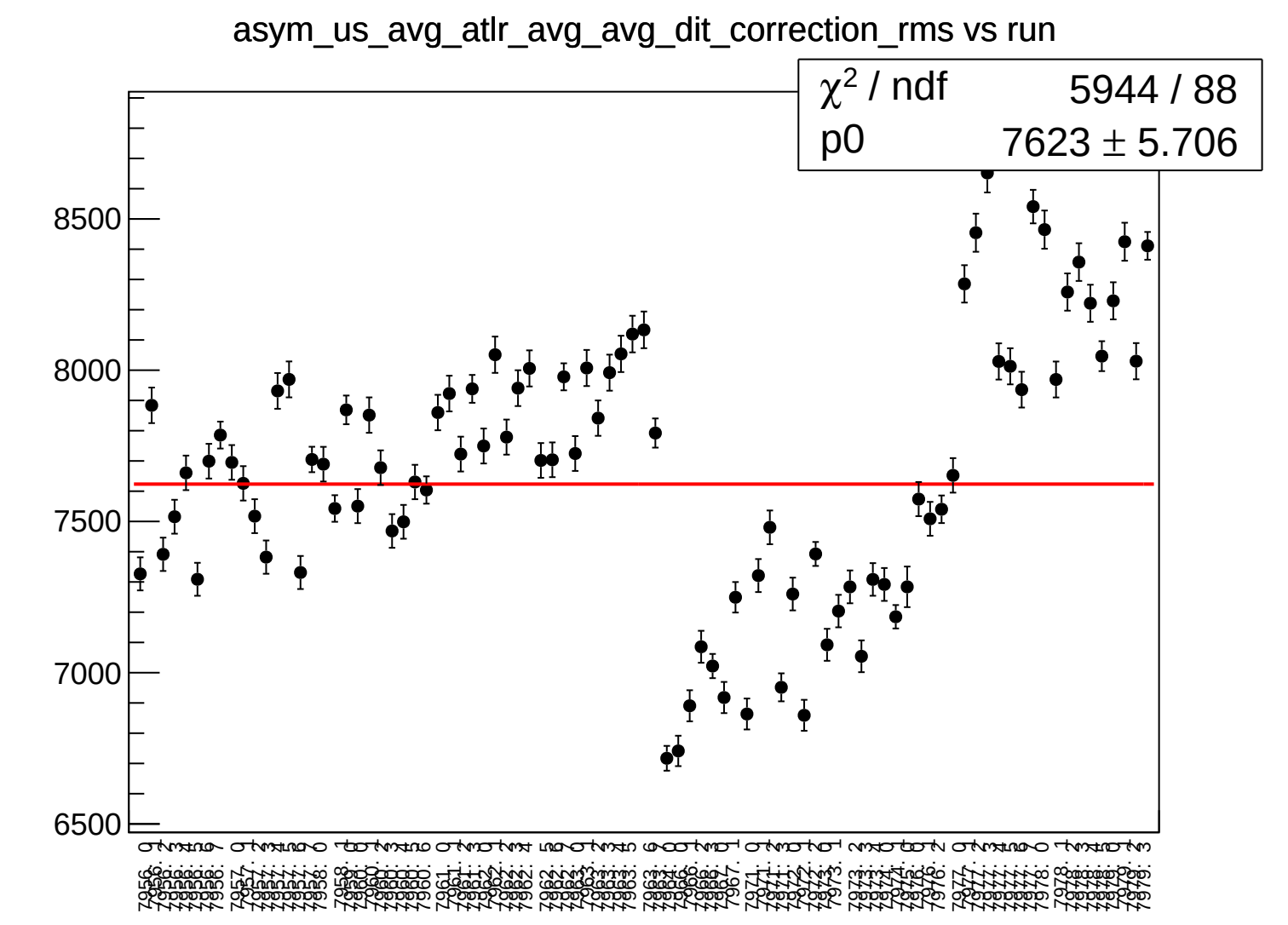

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 66.29 / 88
p0 −7616 ± 1959
pull
Entries 89
Mean 1209
Std Dev 0

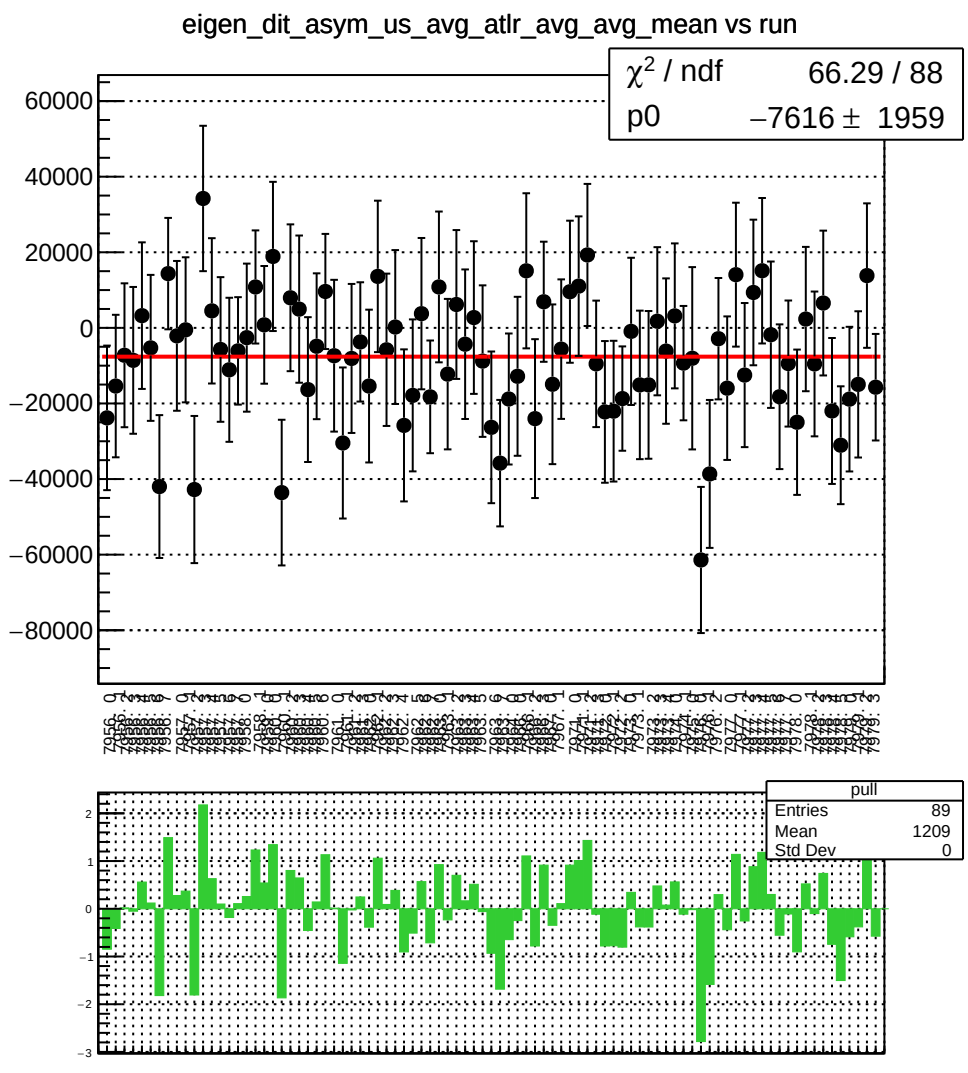

pull1D
Entries 89
Mean −0.002048
Std Dev 0.863

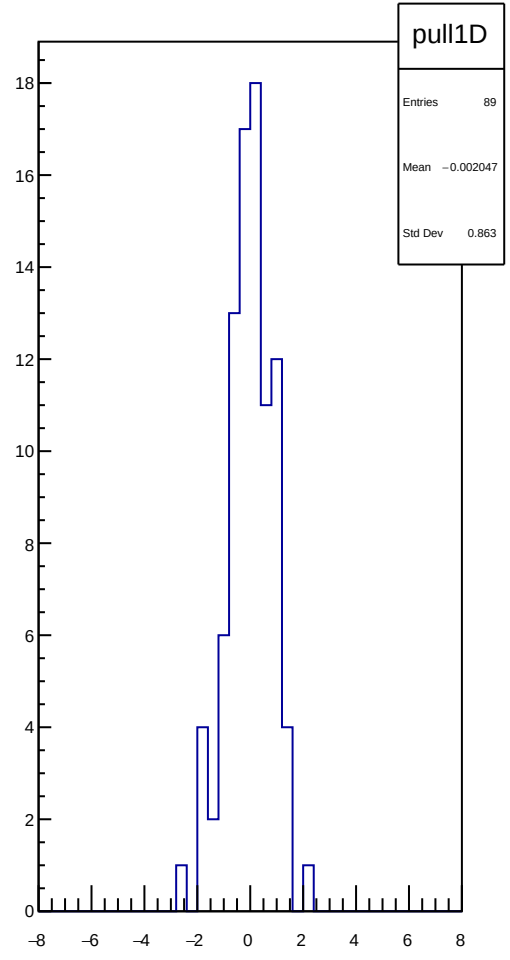

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1593 / 88
p0 1853 ± 1.385
2000
1950
1900
1850
1800
1750

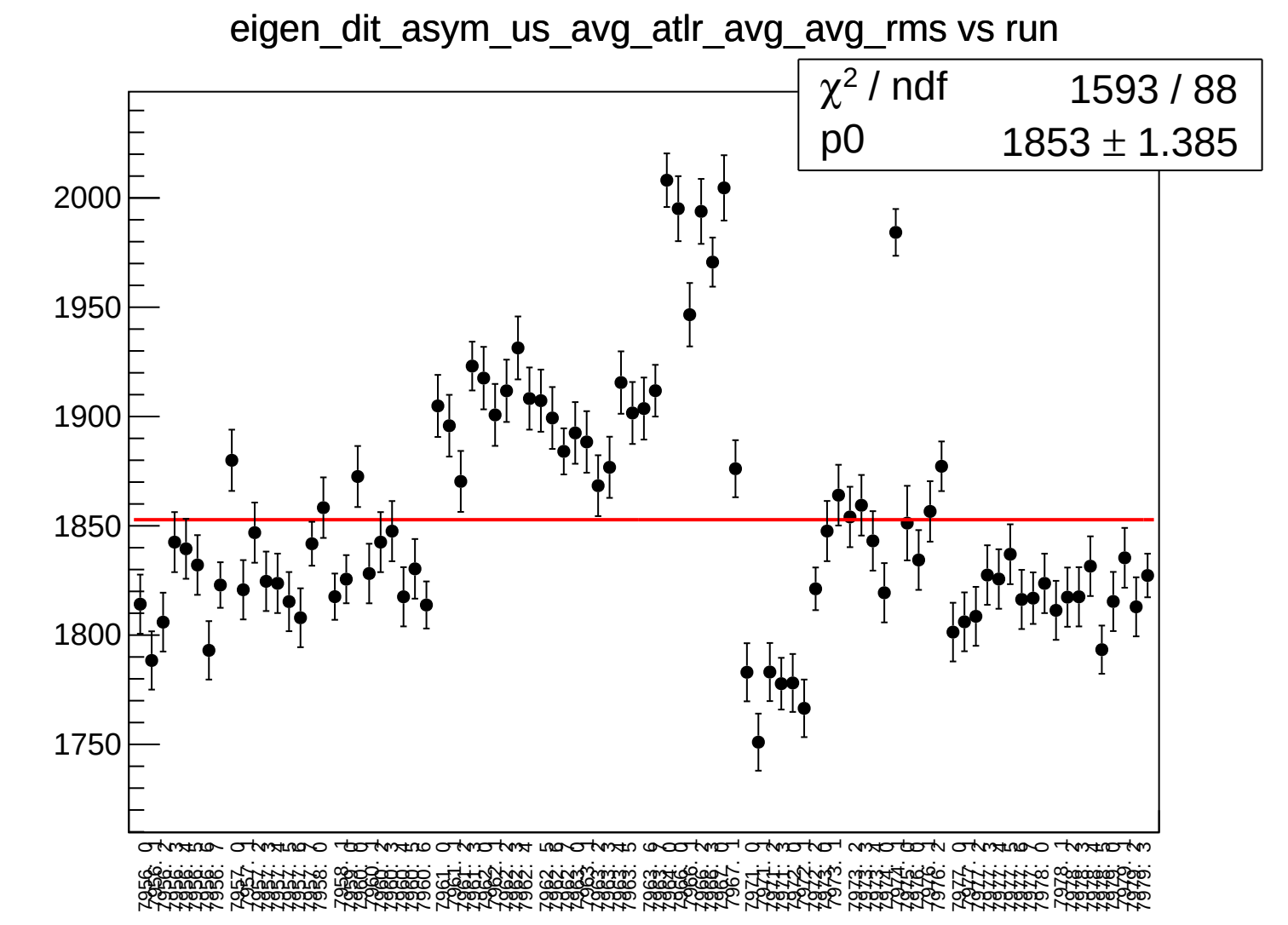

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.26 / 88
p0 4359 ± 8070
pull
Entries 89
Mean −215.7
Std Dev 0

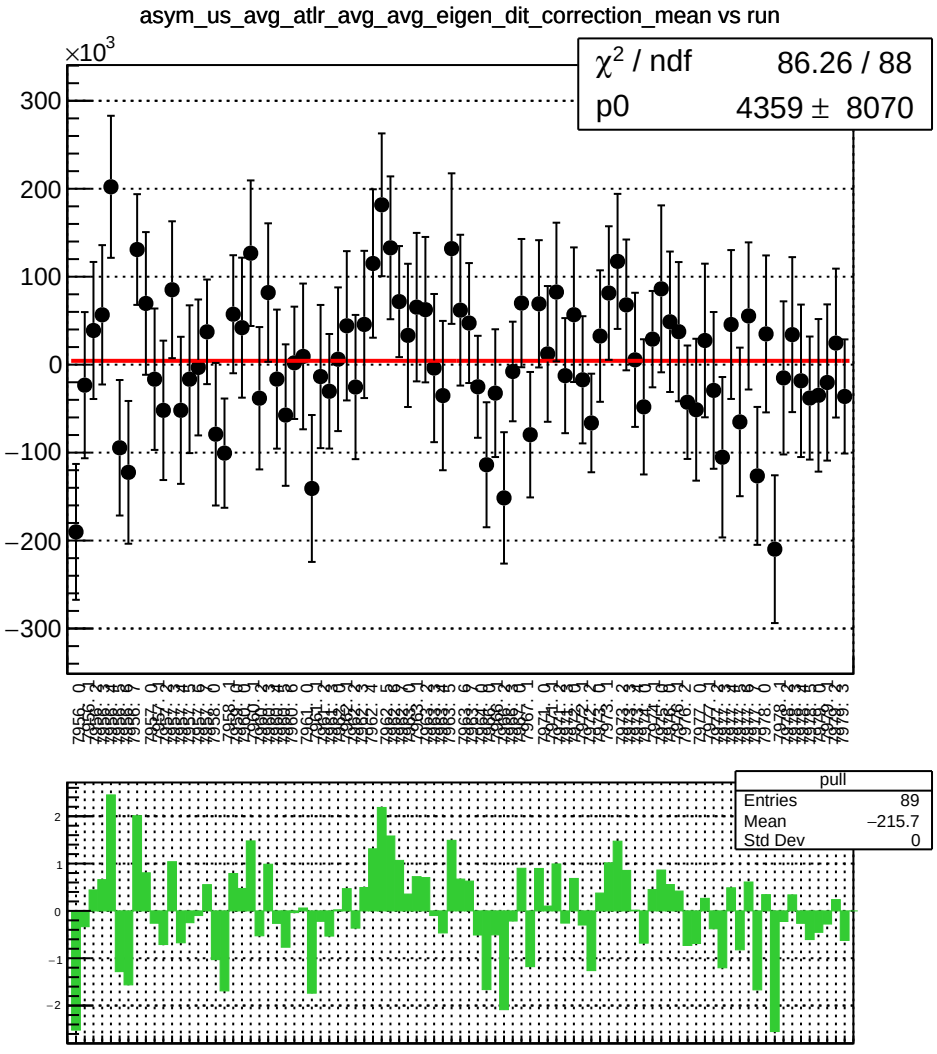

pull1D
Entries 89
Mean 0.008812
Std Dev 0.9845

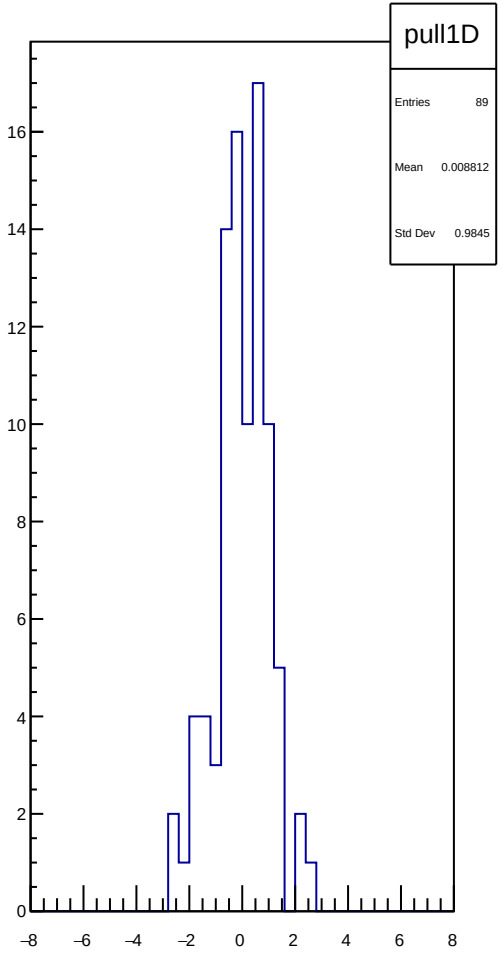

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 5944 / 88
p0 7623 ± 5.706
8500
8000
7500
7000
6500

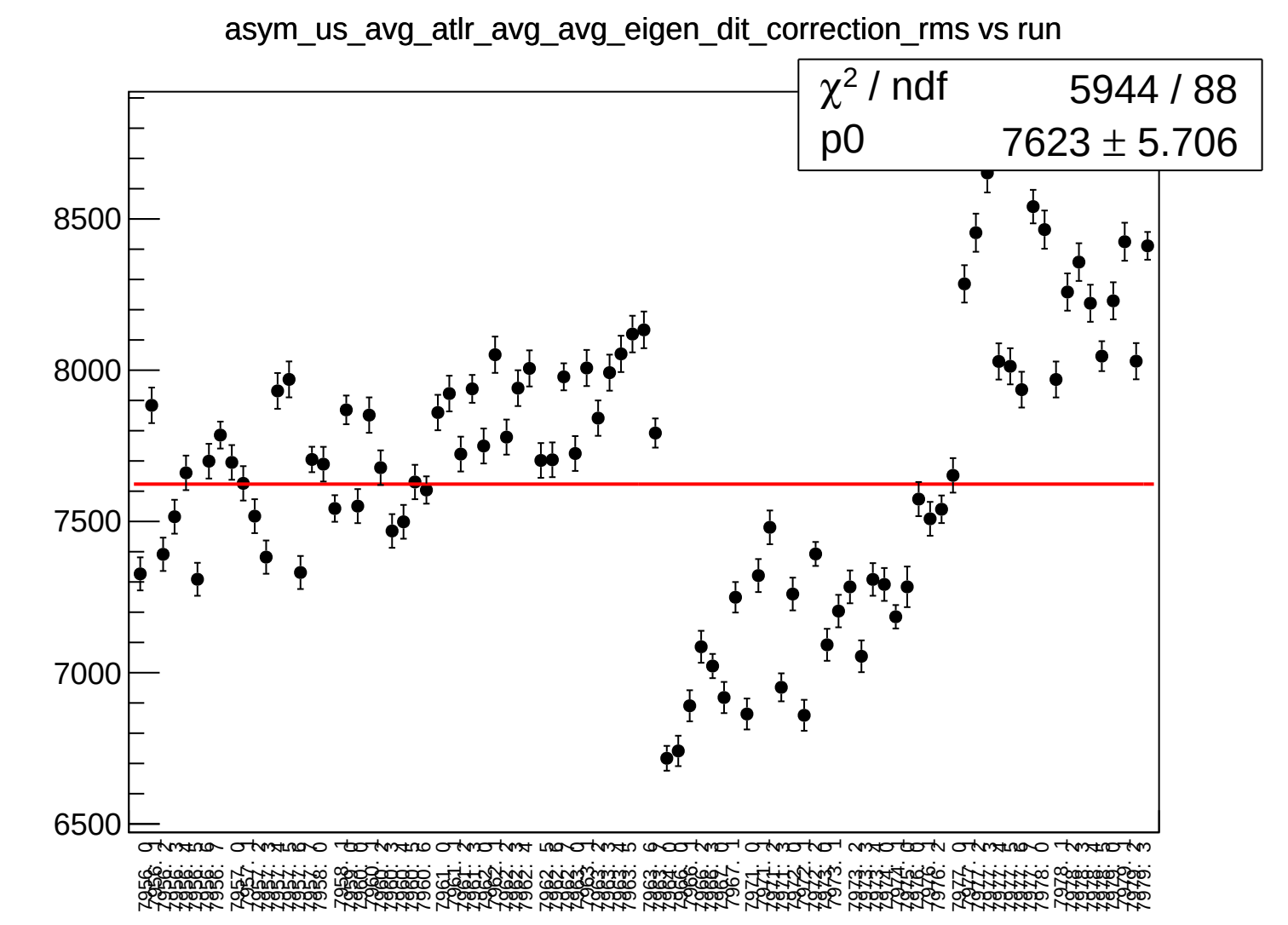

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 66.29 / 88
p0 −7616 ± 1959
pull
Entries 89
Mean 1209
Std Dev 0

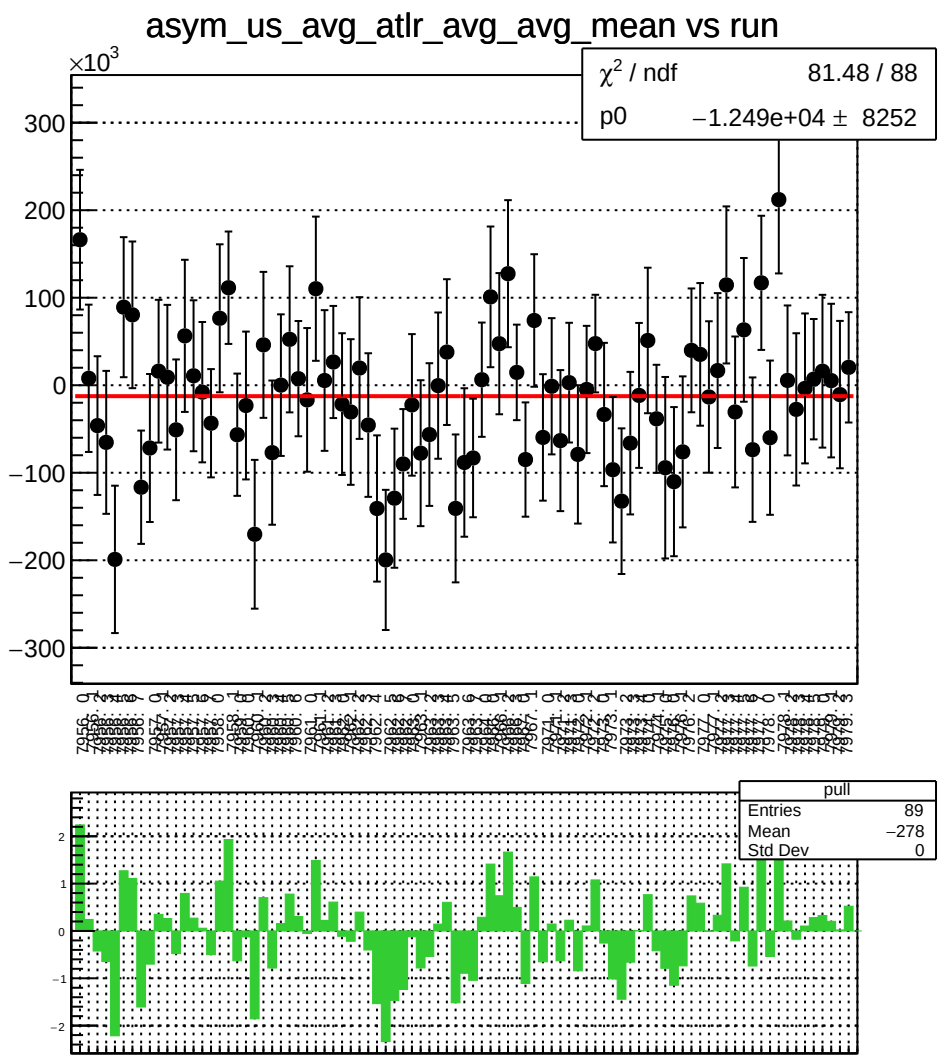

pull1D
Entries 89
Mean −0.002047
Std Dev 0.863

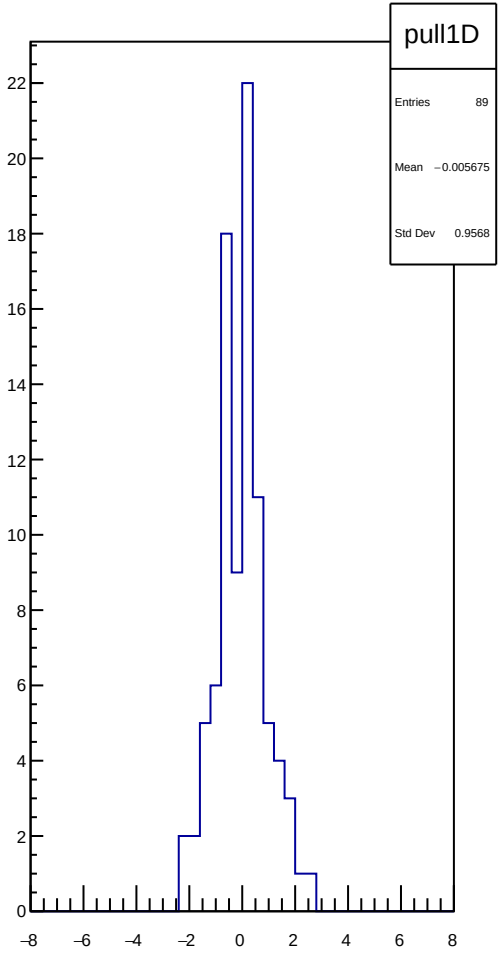

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1593 / 88
p0 1853 ± 1.385
2000
1950
1900
1850
1800
1750

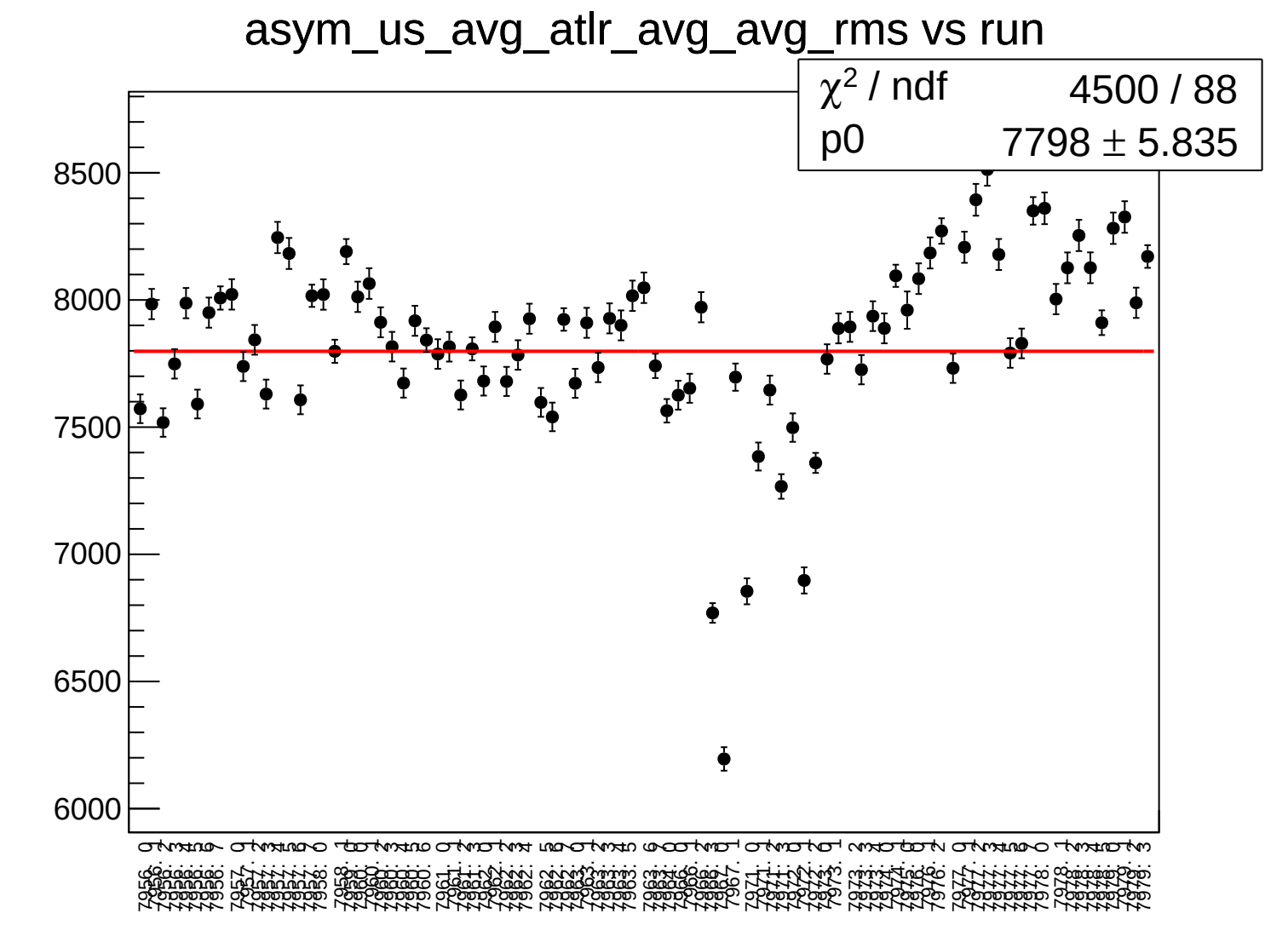

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.26 / 88
p0 4359 ± 8070
pull
Entries 89
Mean −215.7
Std Dev 0

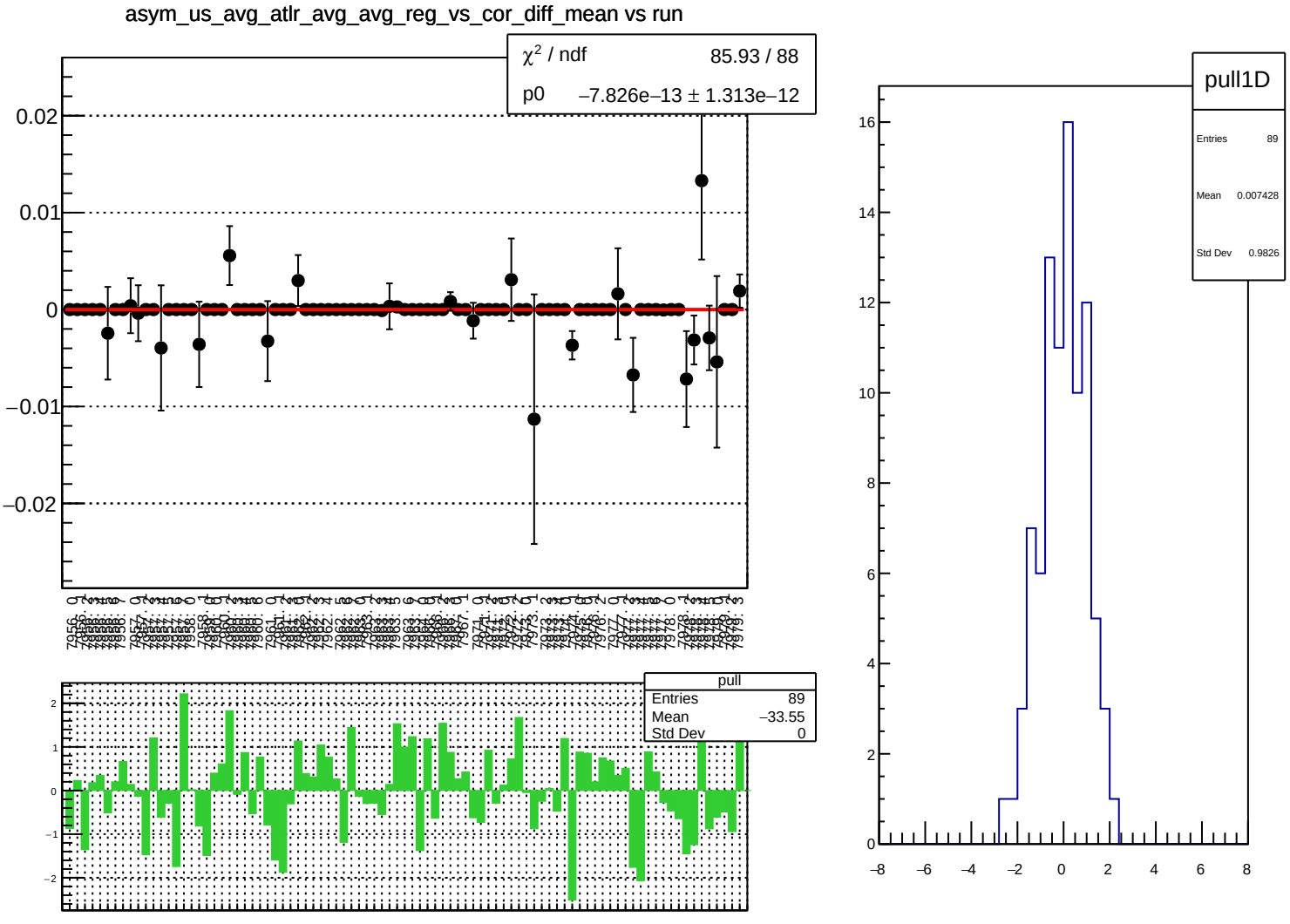

pull1D
Entries 89
Mean 0.008812
Std Dev 0.9845

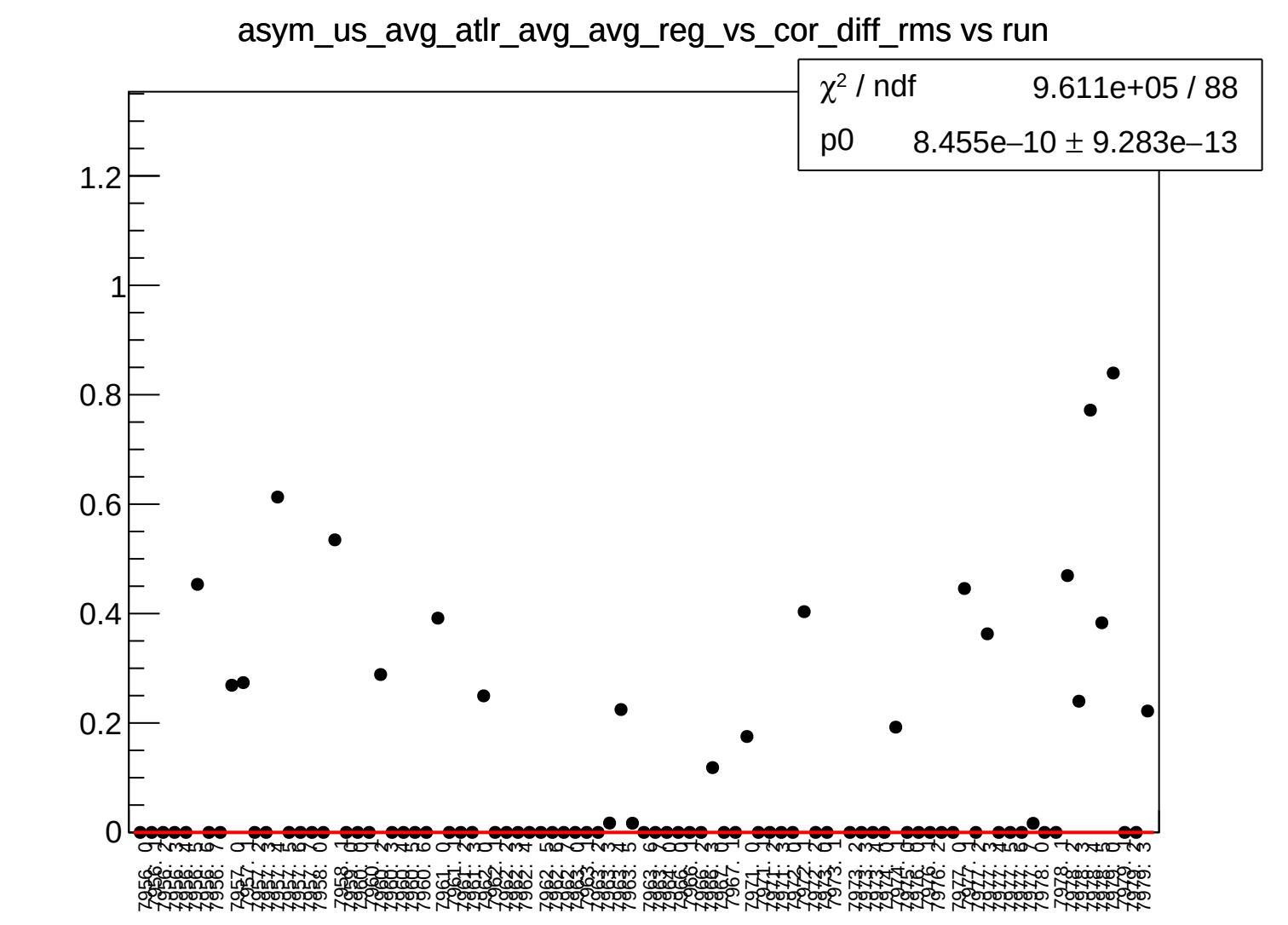

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5944 / 88
p0 7623 ± 5.706
8500
8000
7500
7000
6500

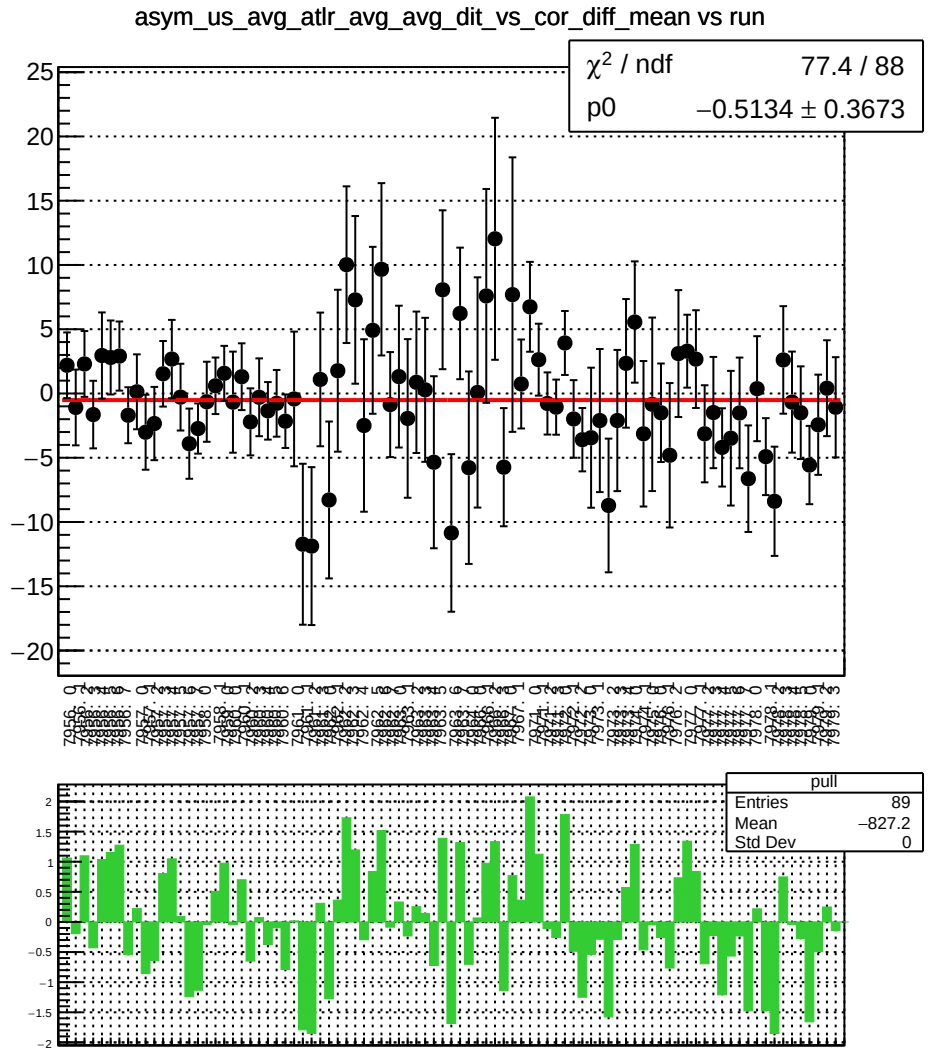

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 81.48 / 88
p0 −1.249e+04 ± 8252
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −278
Std Dev 0
2
1
0
−1
−2

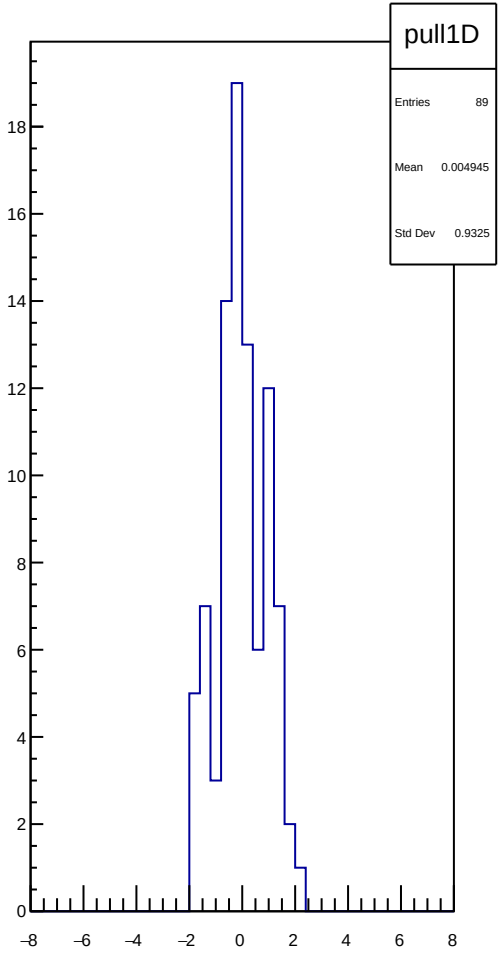

pull1D
Entries 89
Mean −0.005675
Std Dev 0.9568
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

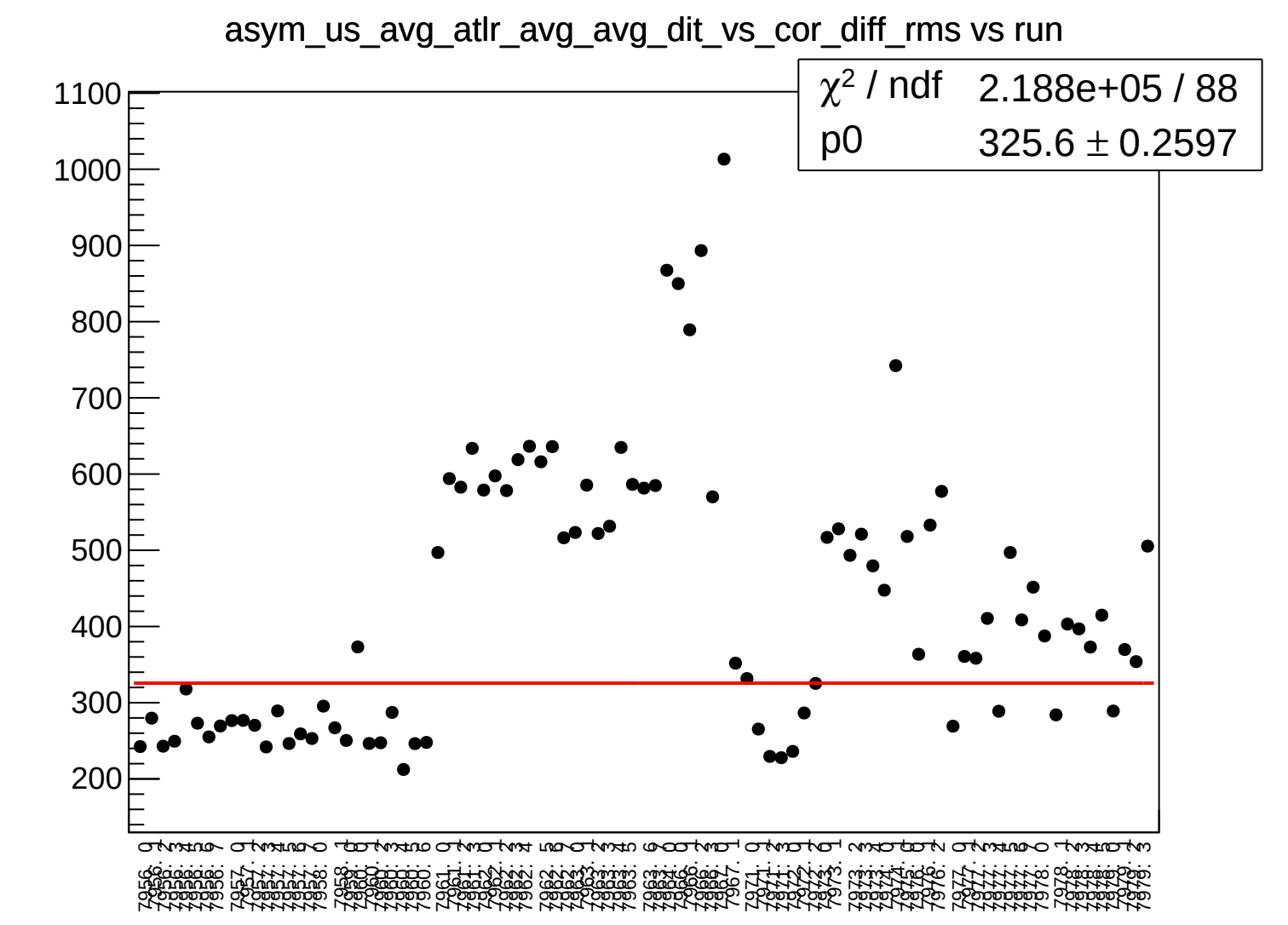

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4500 / 88
p0 7798 ± 5.835
8500
8000
7500
7000
6500
6000

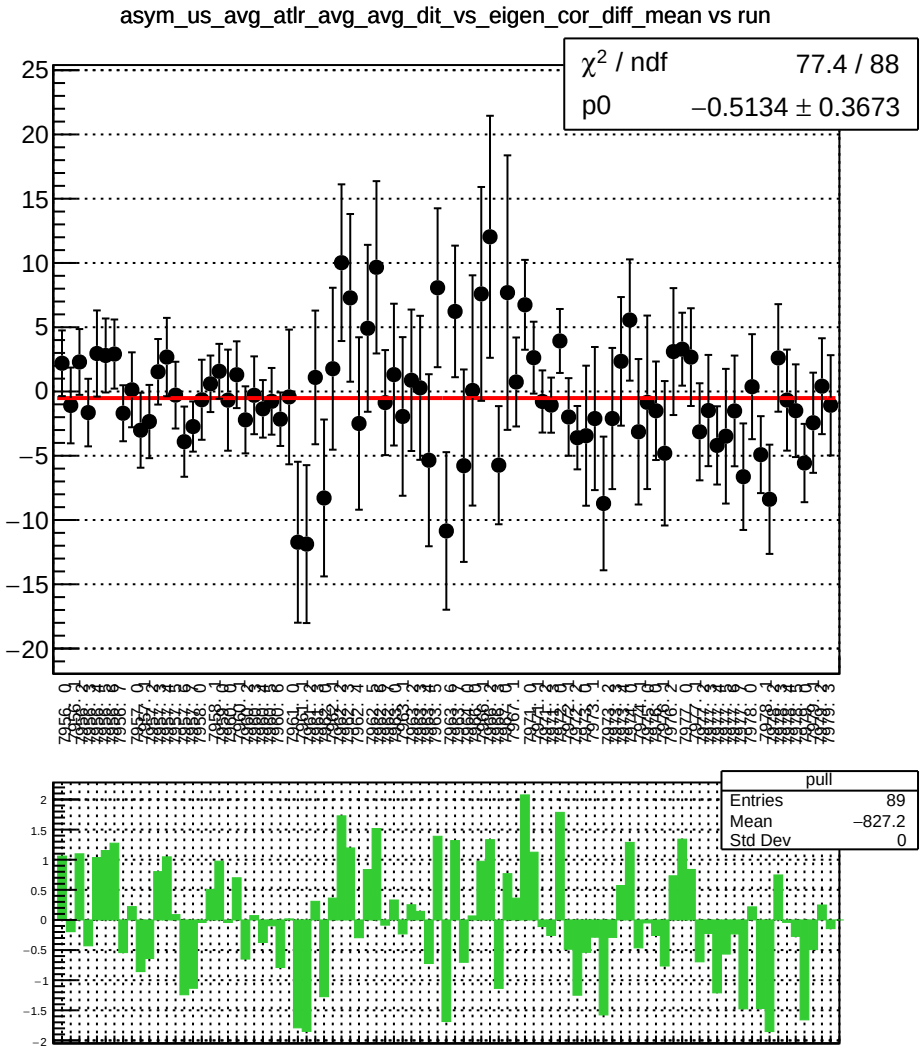

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.93 / 88
p0 −7.826e−13 ± 1.313e−12
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean −33.55
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.007428
Std Dev 0.9826
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

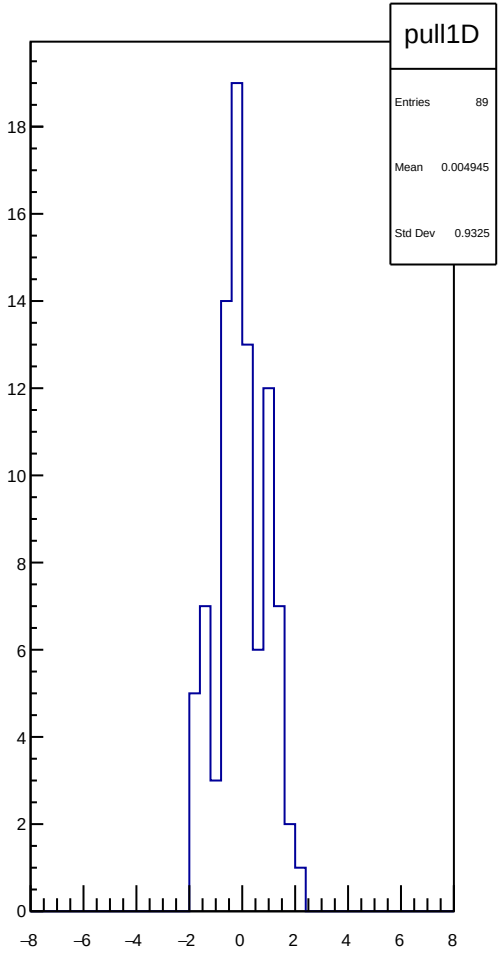

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.611e+05 / 88
p0 8.455e−10 ± 9.283e−13
1.2
1
0.8
0.6
0.4
0.2
0

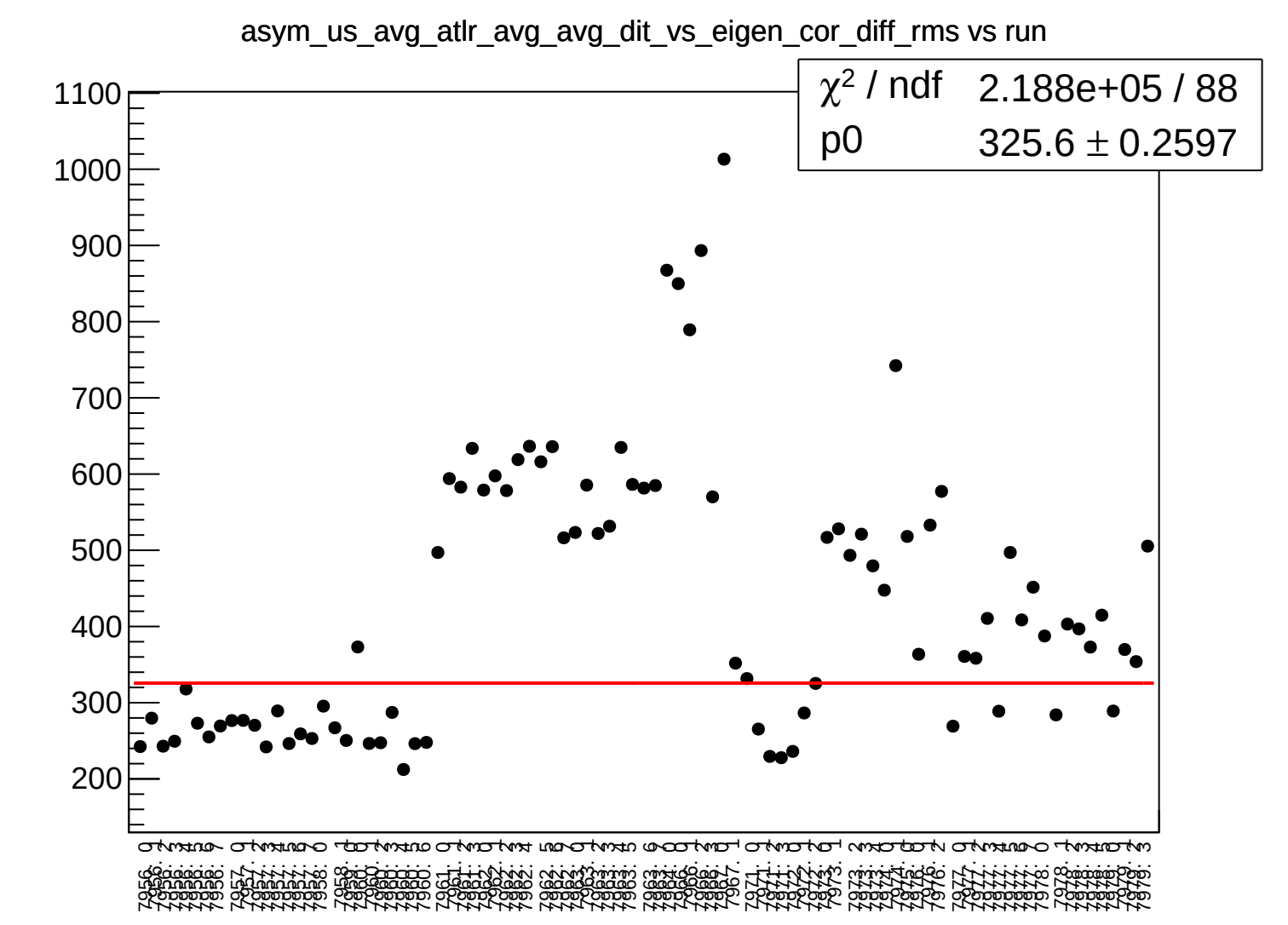

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.4 / 88
p0 −0.5134 ± 0.3673
pull
Entries 89
Mean −827.2
Std Dev 0

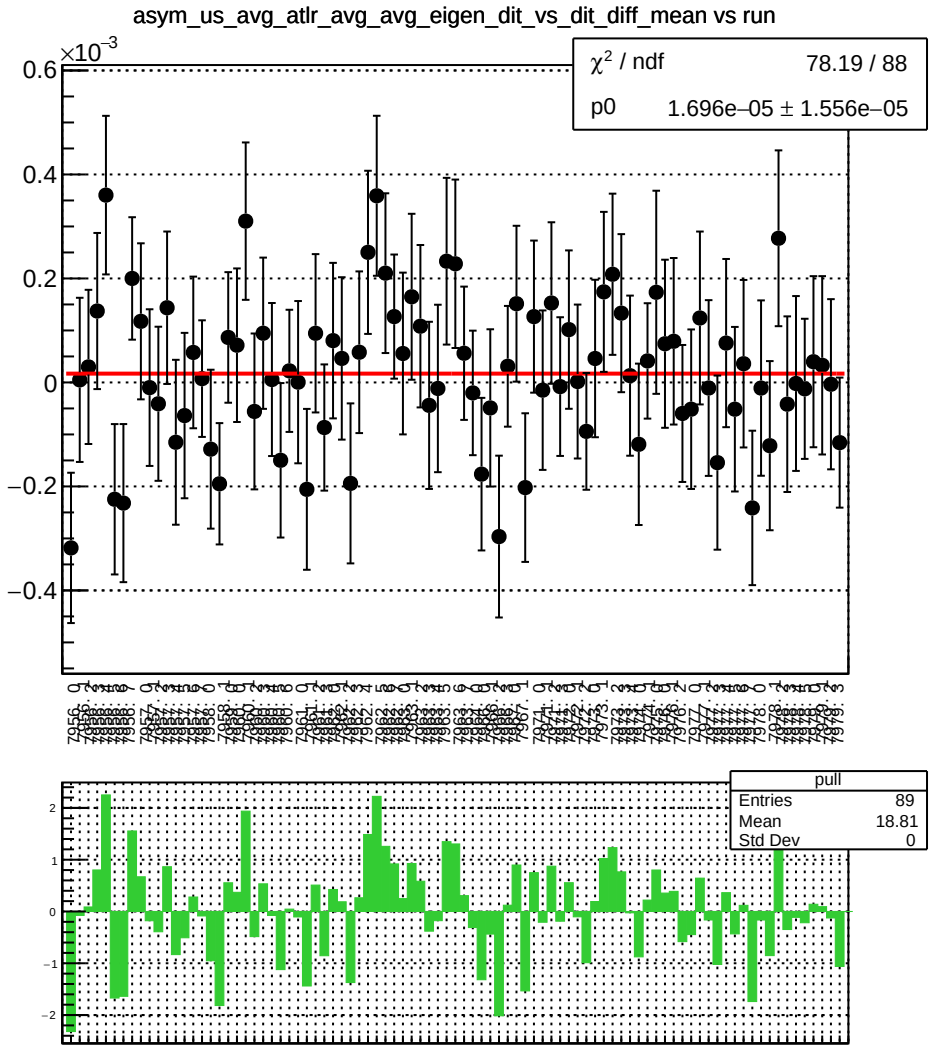

pull1D
Entries 89
Mean 0.004945
Std Dev 0.9325

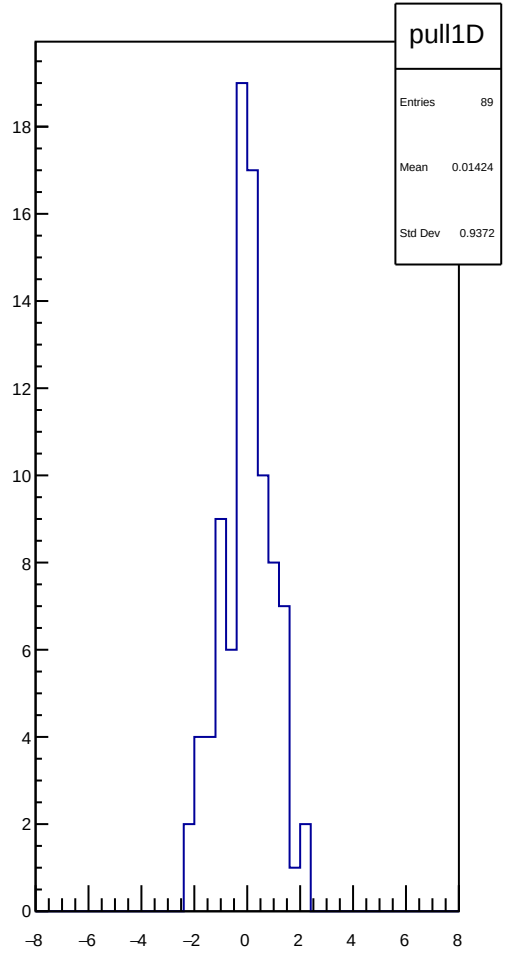

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.188e+05 / 88
p0 325.6 ± 0.2597
1100
1000
900
800
700
600
500
400
300
200

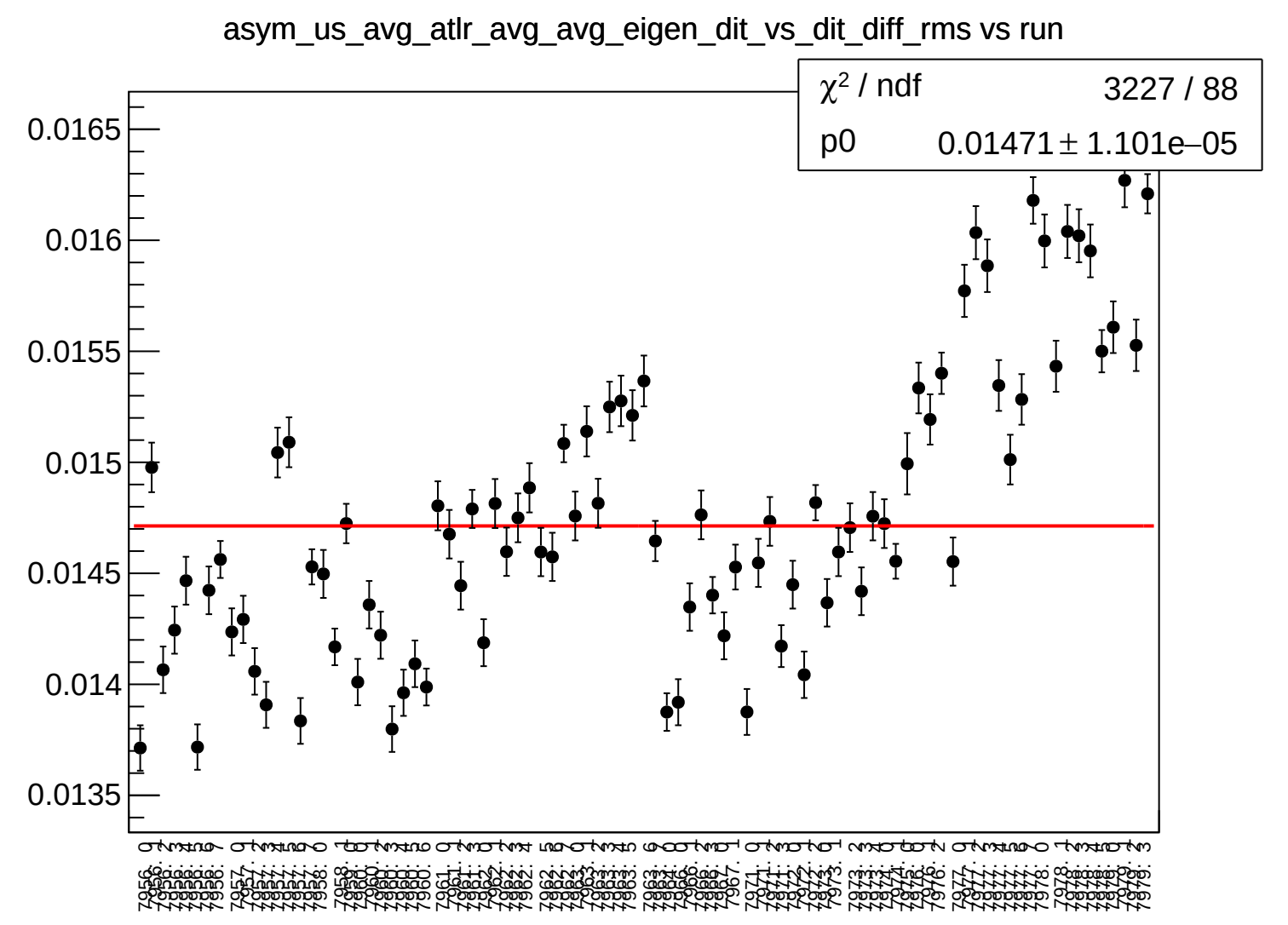

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.4 / 88
p0 −0.5134 ± 0.3673
pull
Entries 89
Mean −827.2
Std Dev 0

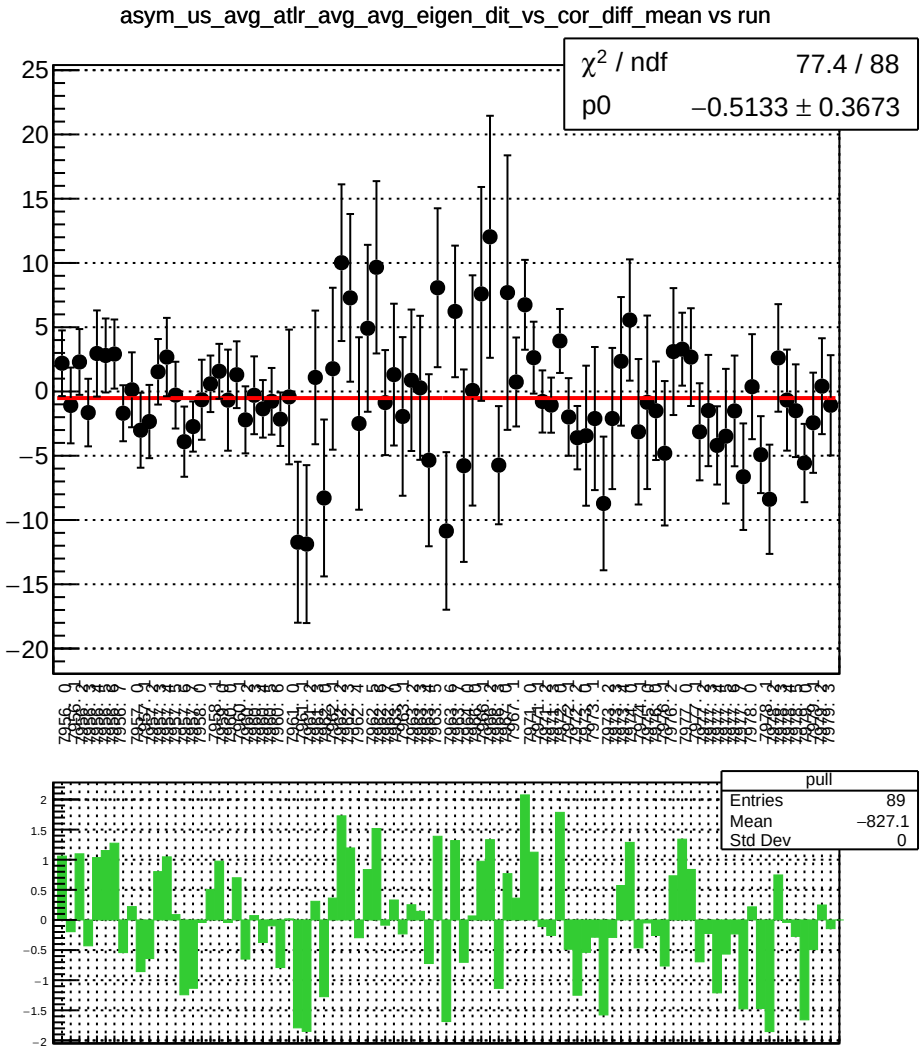

pull1D
Entries 89
Mean 0.004945
Std Dev 0.9325

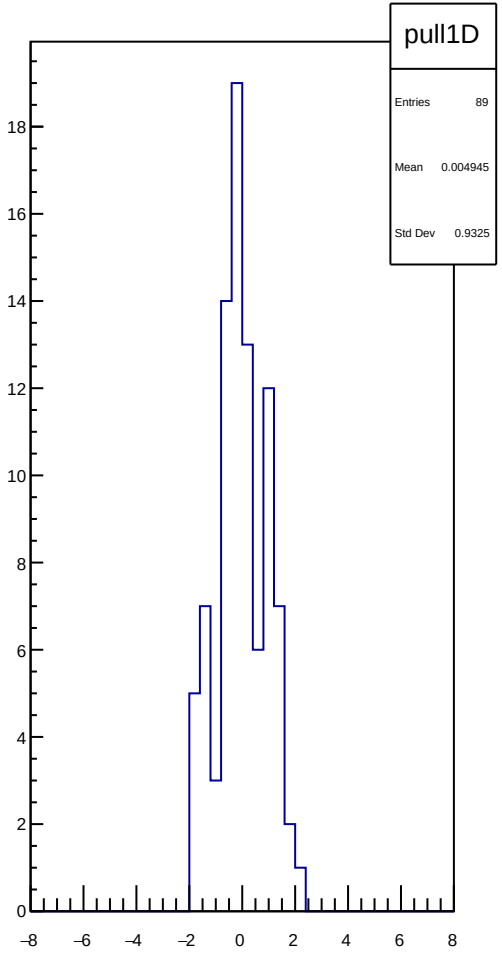

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.188e+05 / 88
p0 325.6 ± 0.2597
1100
1000
900
800
700
600
500
400
300
200

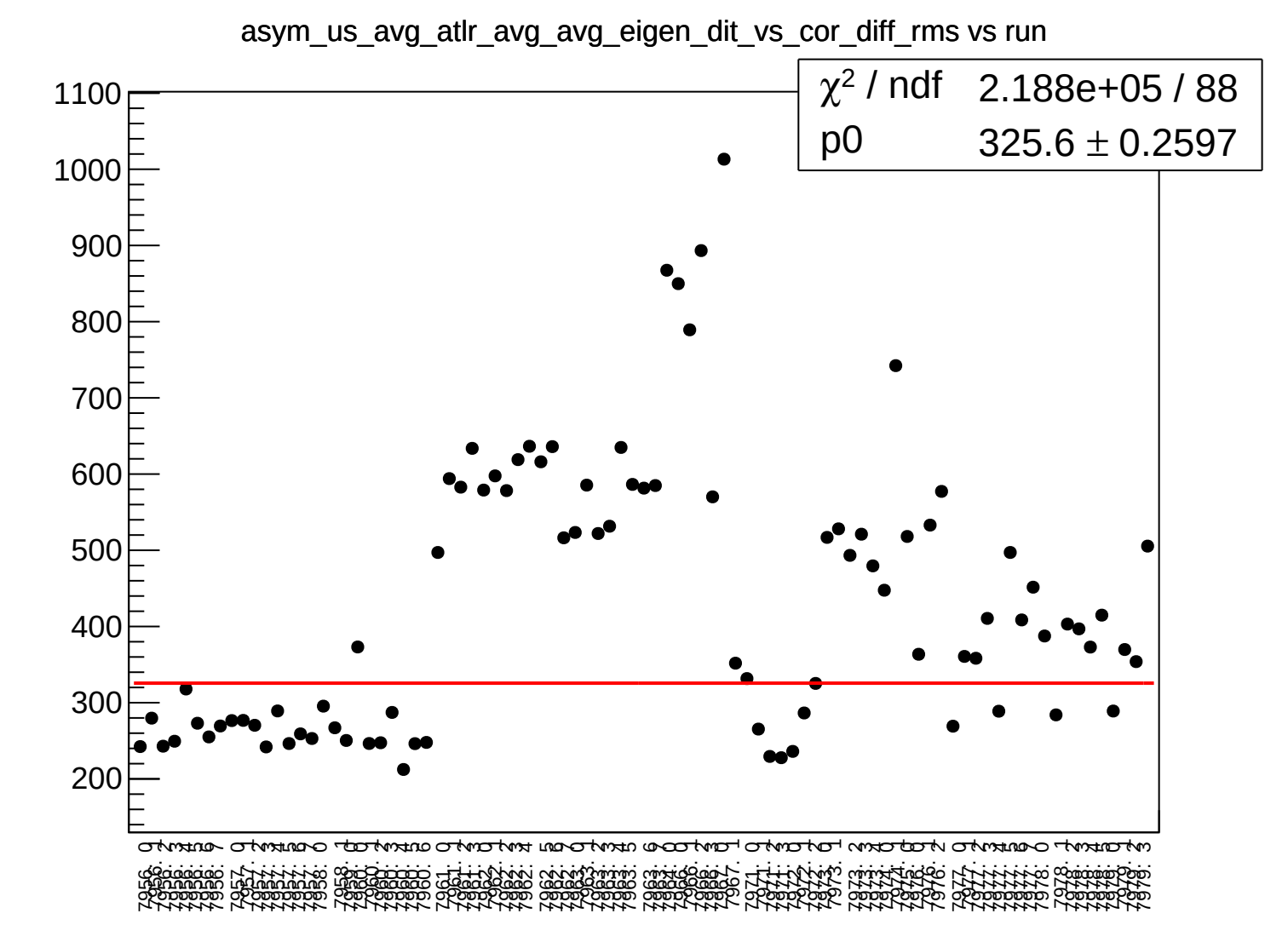

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.19 / 88
p0 1.696e−05 ± 1.556e−05
pull
Entries 89
Mean 18.81
Std Dev 0

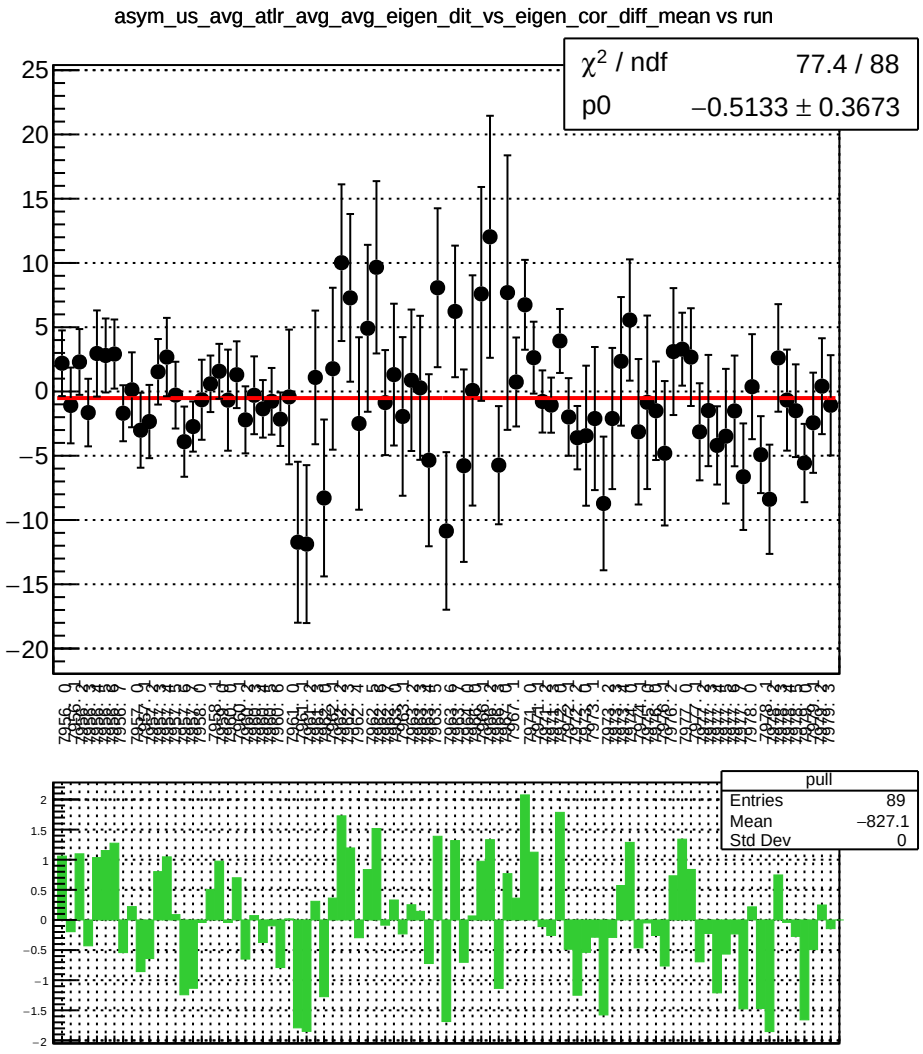

pull1D
Entries 89
Mean 0.01424
Std Dev 0.9372

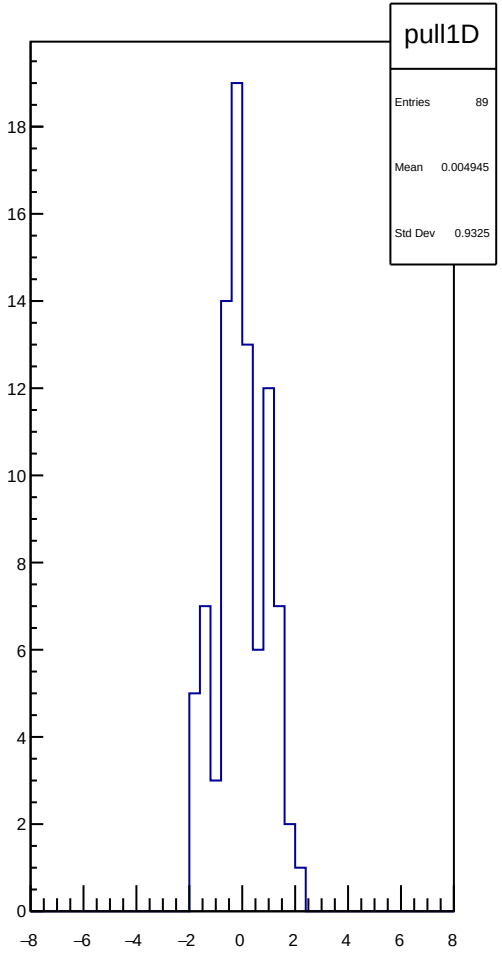

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3227 / 88
p0 0.01471 ± 1.101e−05
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135

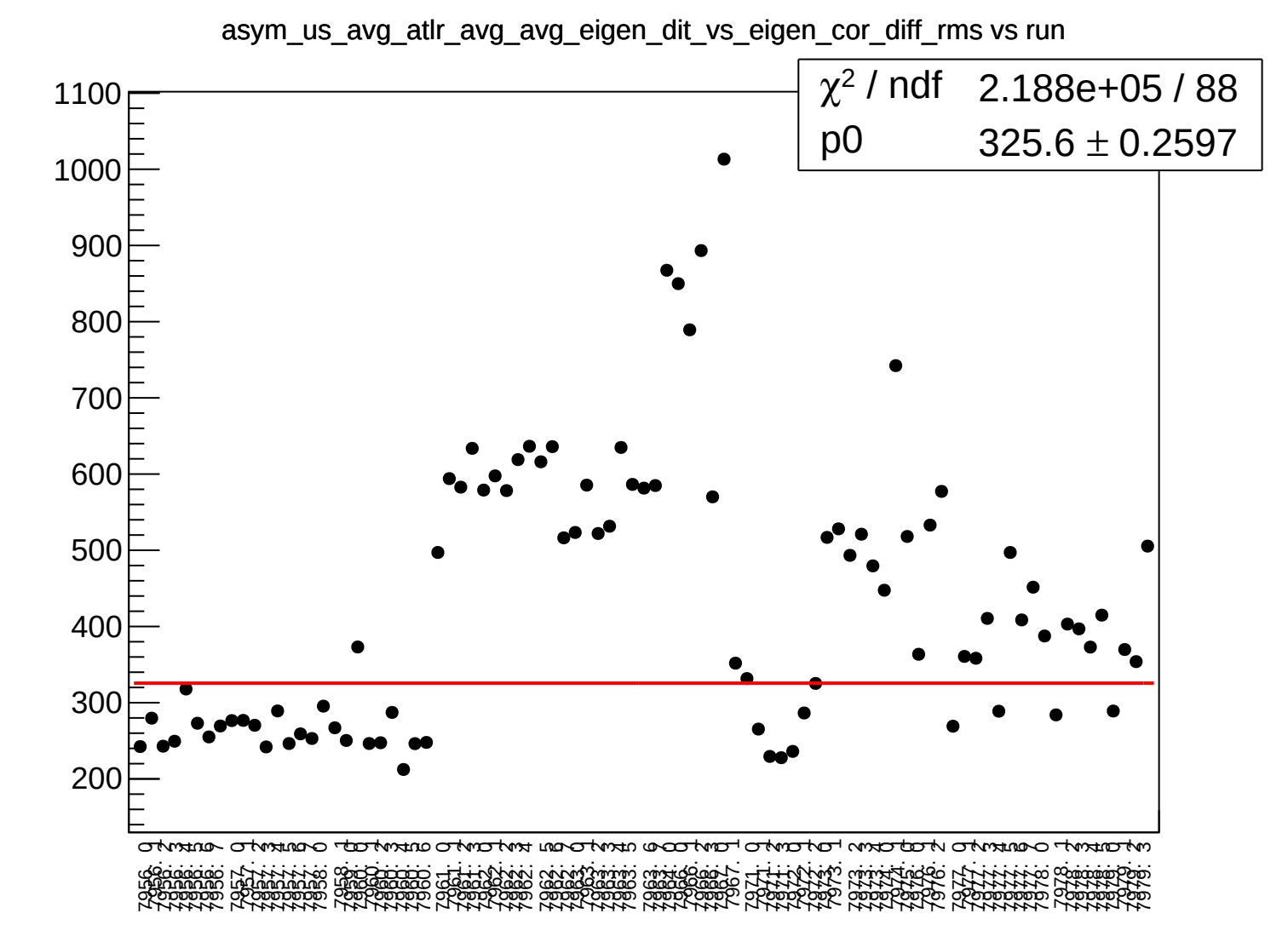

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.4 / 88
p0 −0.5133 ± 0.3673
pull
Entries 89
Mean −827.1
Std Dev 0

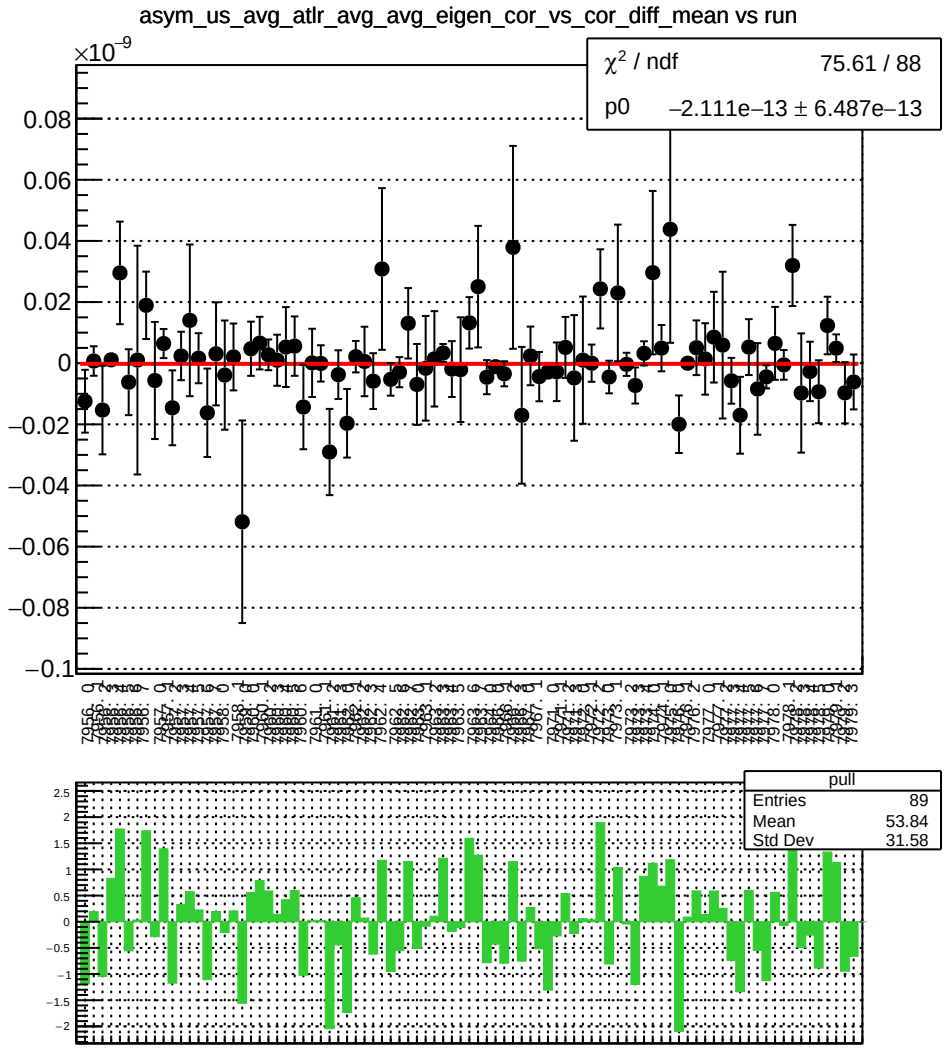

pull1D
Entries 89
Mean 0.004945
Std Dev 0.9325

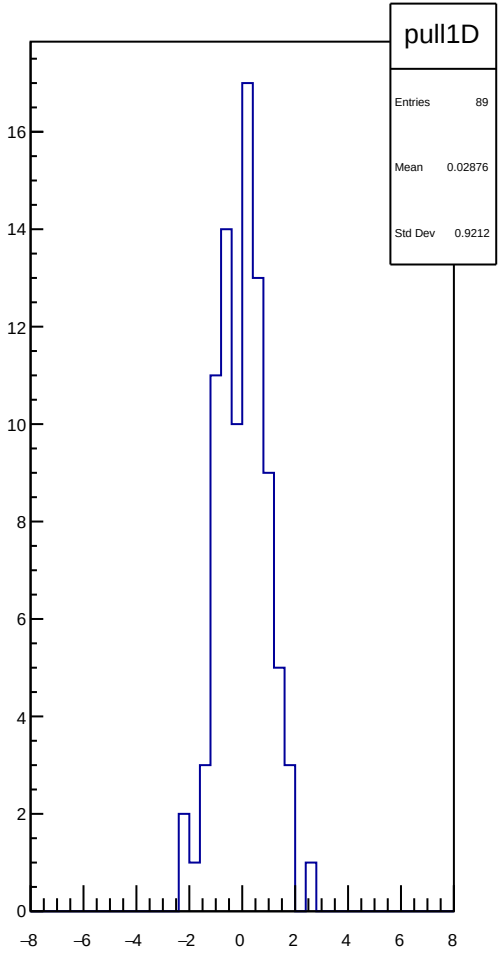

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.188e+05 / 88
p0 325.6 ± 0.2597
1100
1000
900
800
700
600
500
400
300
200

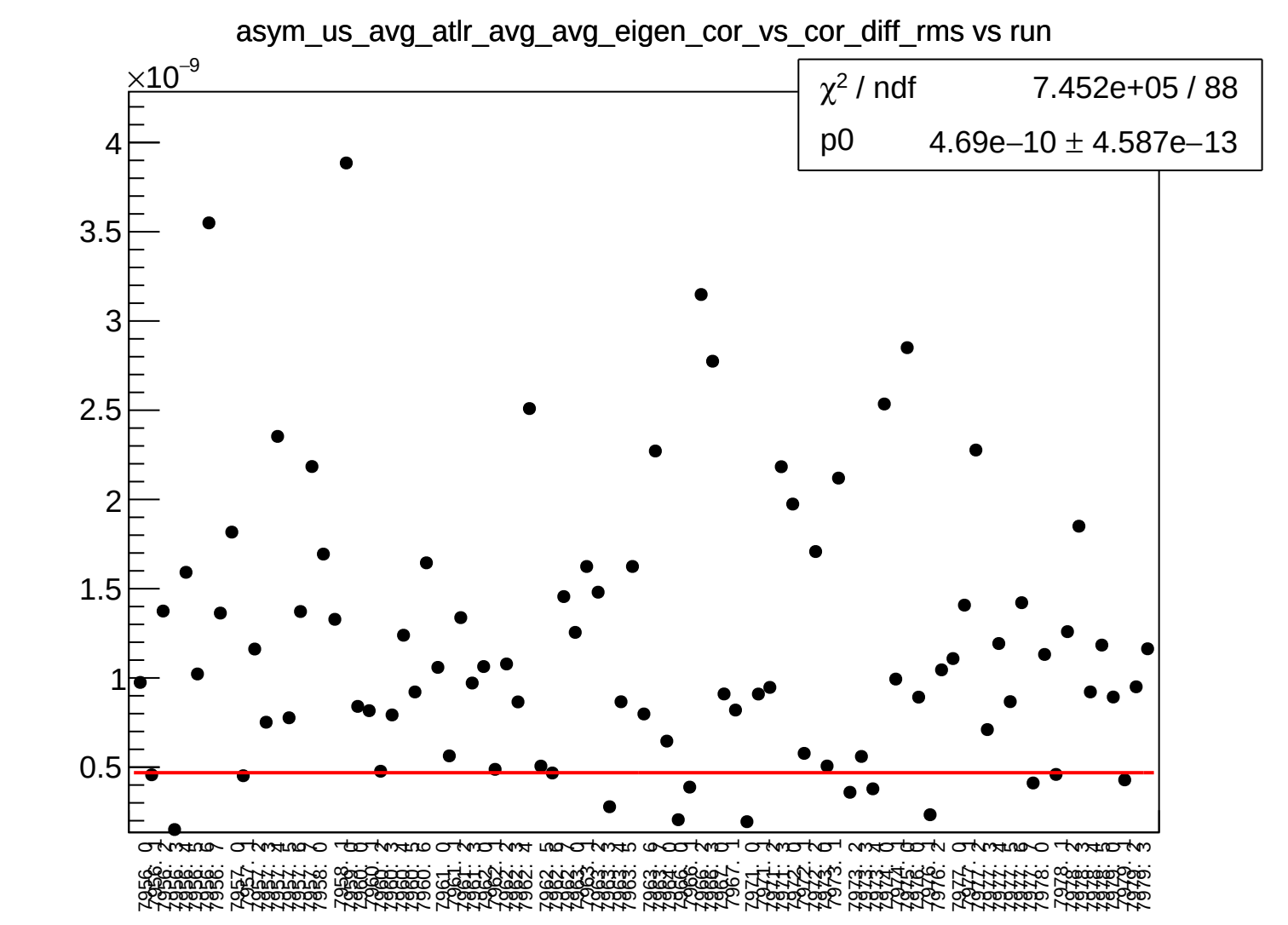

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.4 / 88
p0 −0.5133 ± 0.3673
pull
Entries 89
Mean −827.1
Std Dev 0

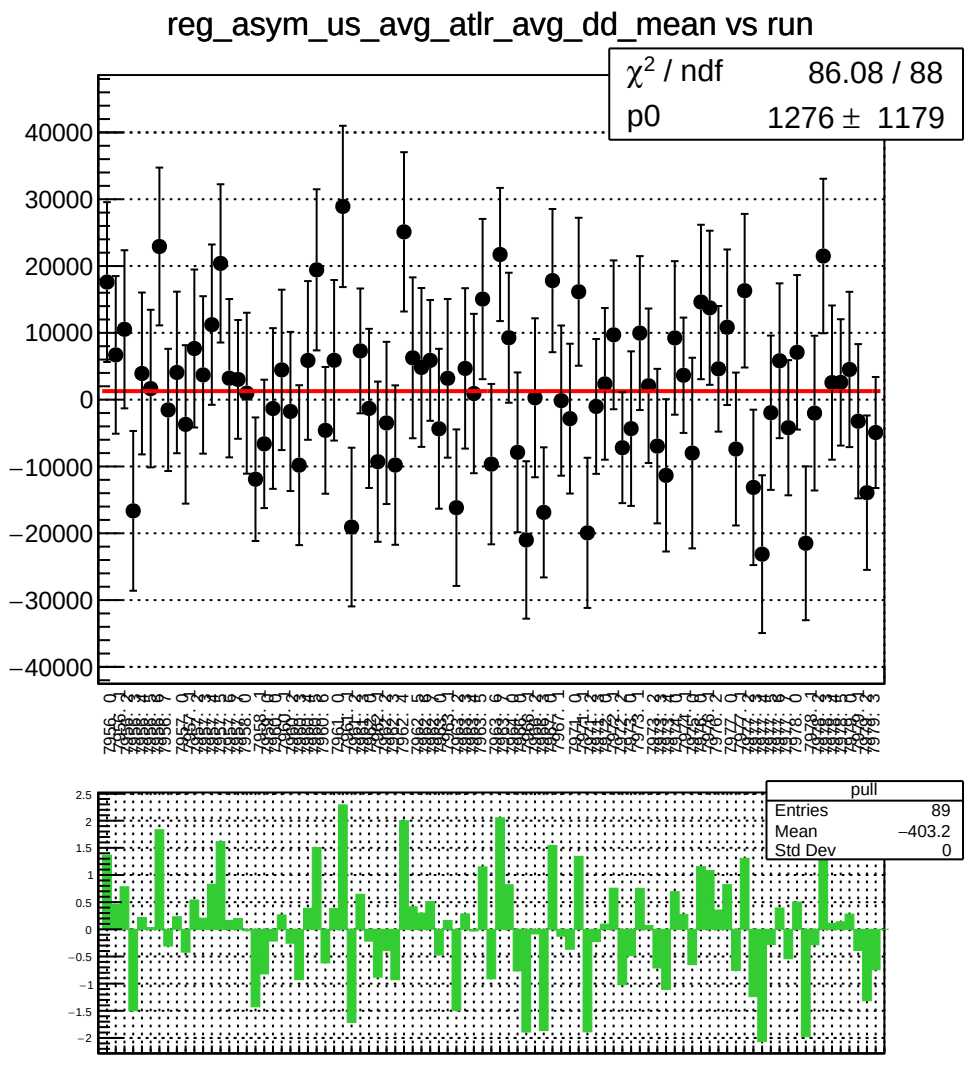

pull1D
Entries 89
Mean 0.004945
Std Dev 0.9325

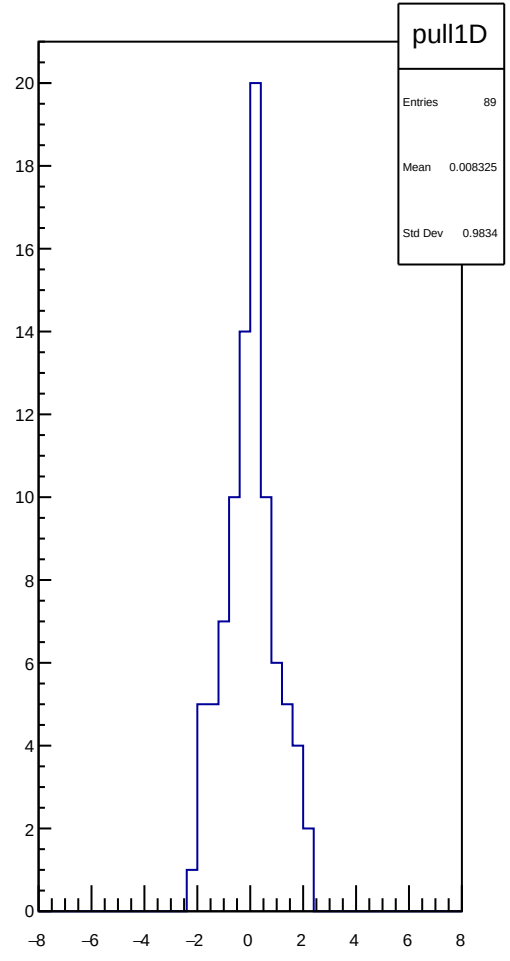

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.188e+05 / 88
p0 325.6 ± 0.2597
1100
1000
900
800
700
600
500
400
300
200

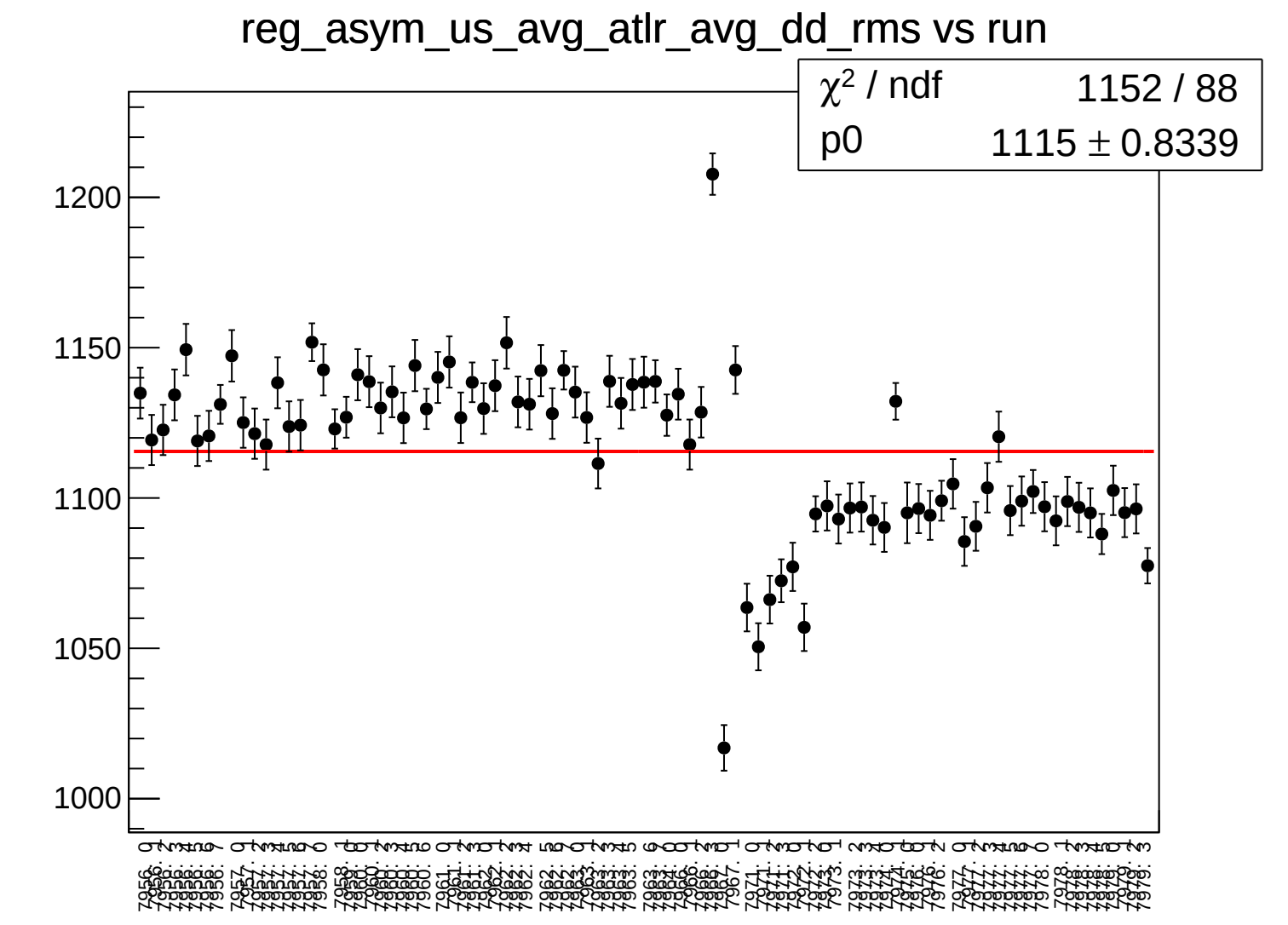

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 75.61 / 88
p0 −2.111e−13 ± 6.487e−13
pull
Entries 89
Mean 53.84
Std Dev 31.58

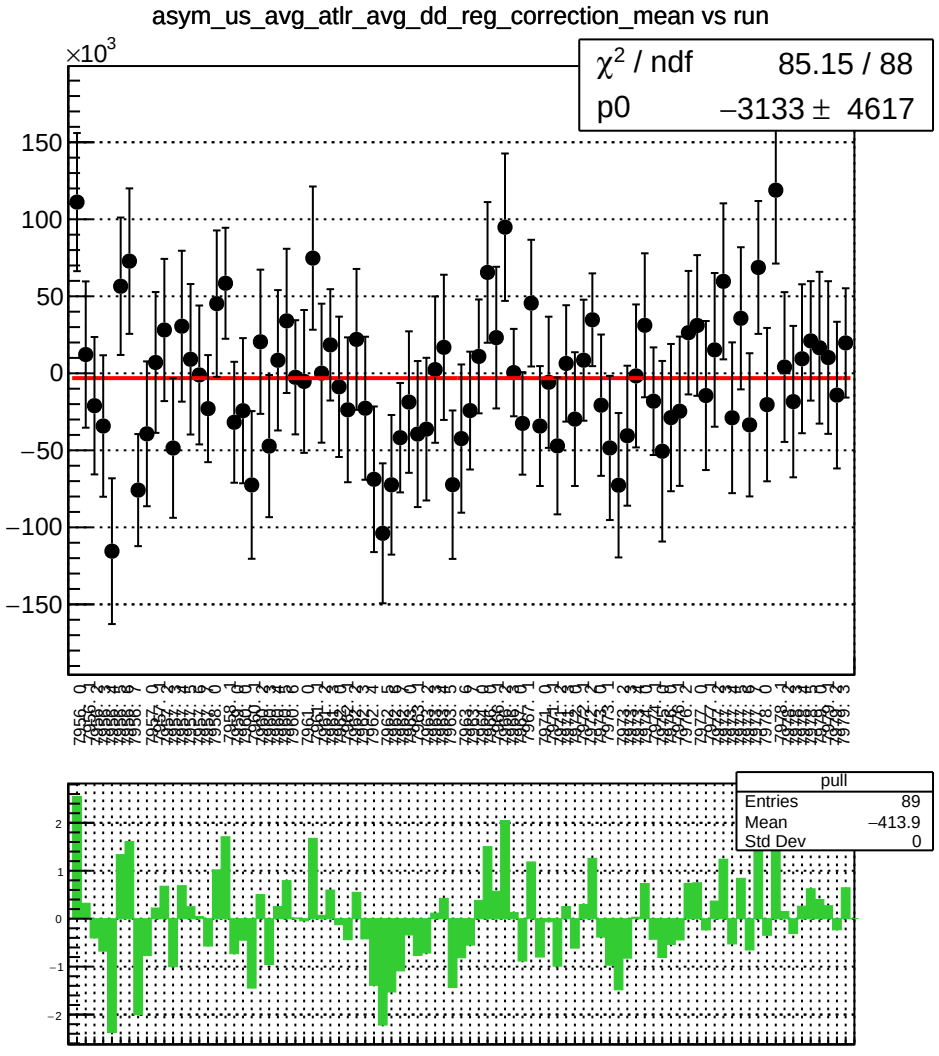

pull1D
Entries 89
Mean 0.02876
Std Dev 0.9212

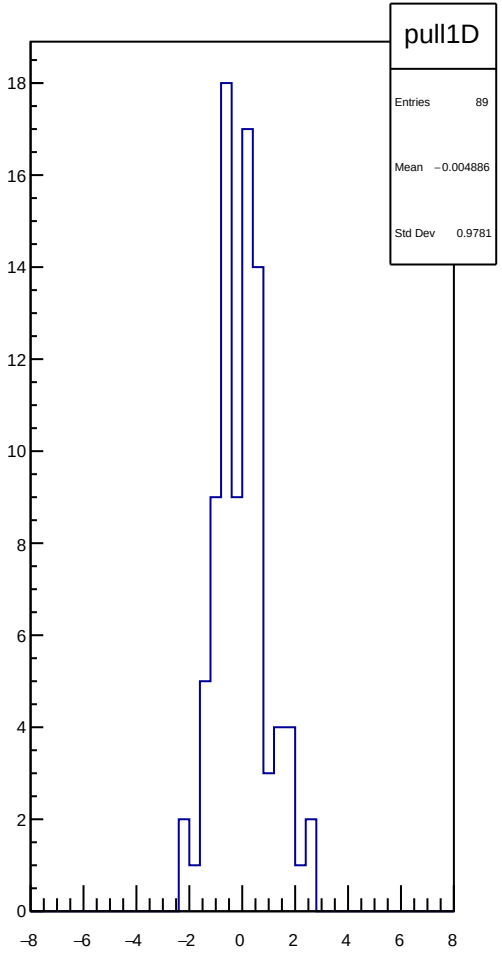

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.452e+05 / 88
p0 4.69e−10 ± 4.587e−13
4
3.5
3
2.5
2
1.5
1
0.5

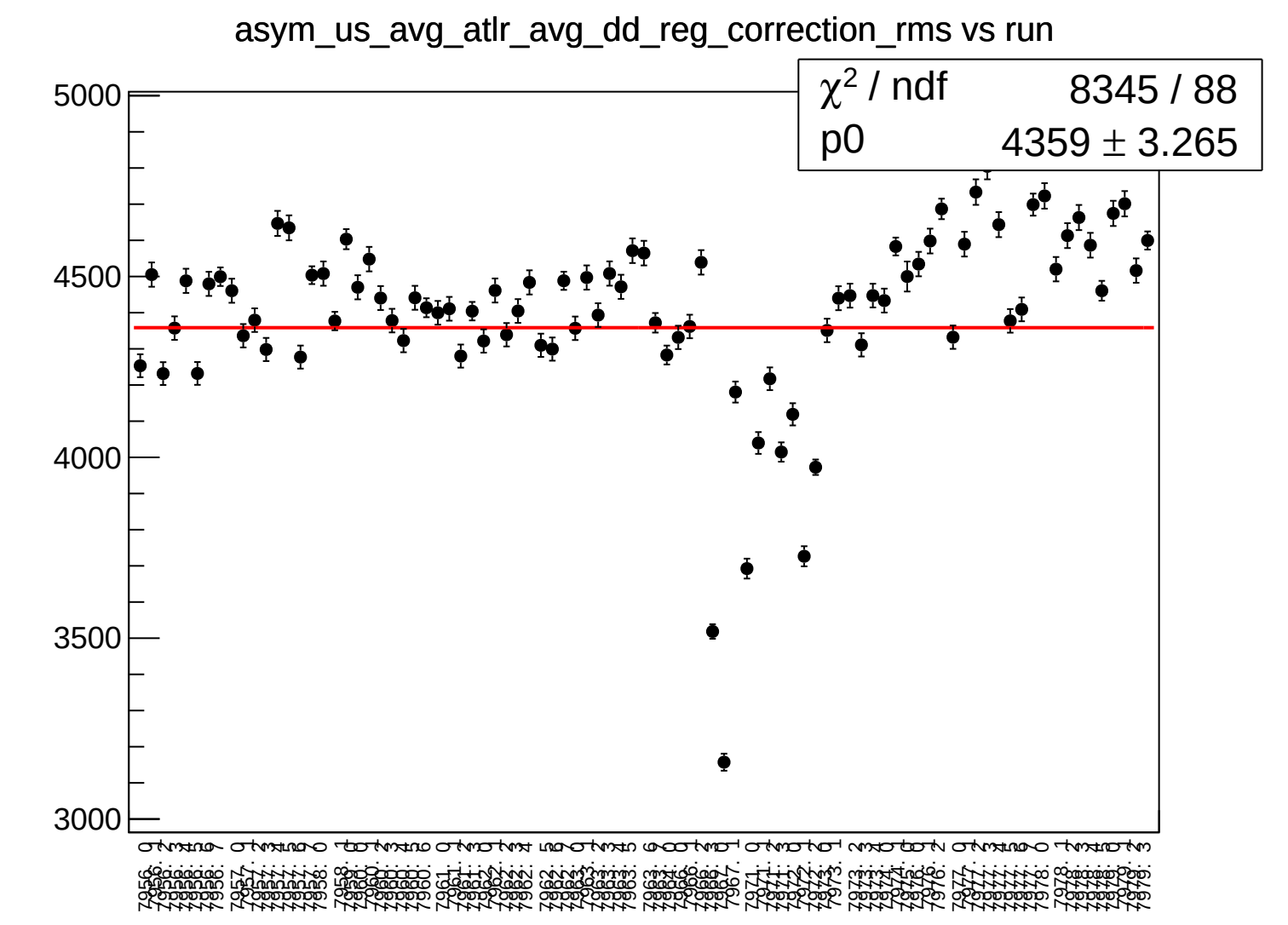

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 86.08 / 88
p0 1276 ± 1179
pull
Entries 89
Mean −403.2
Std Dev 0

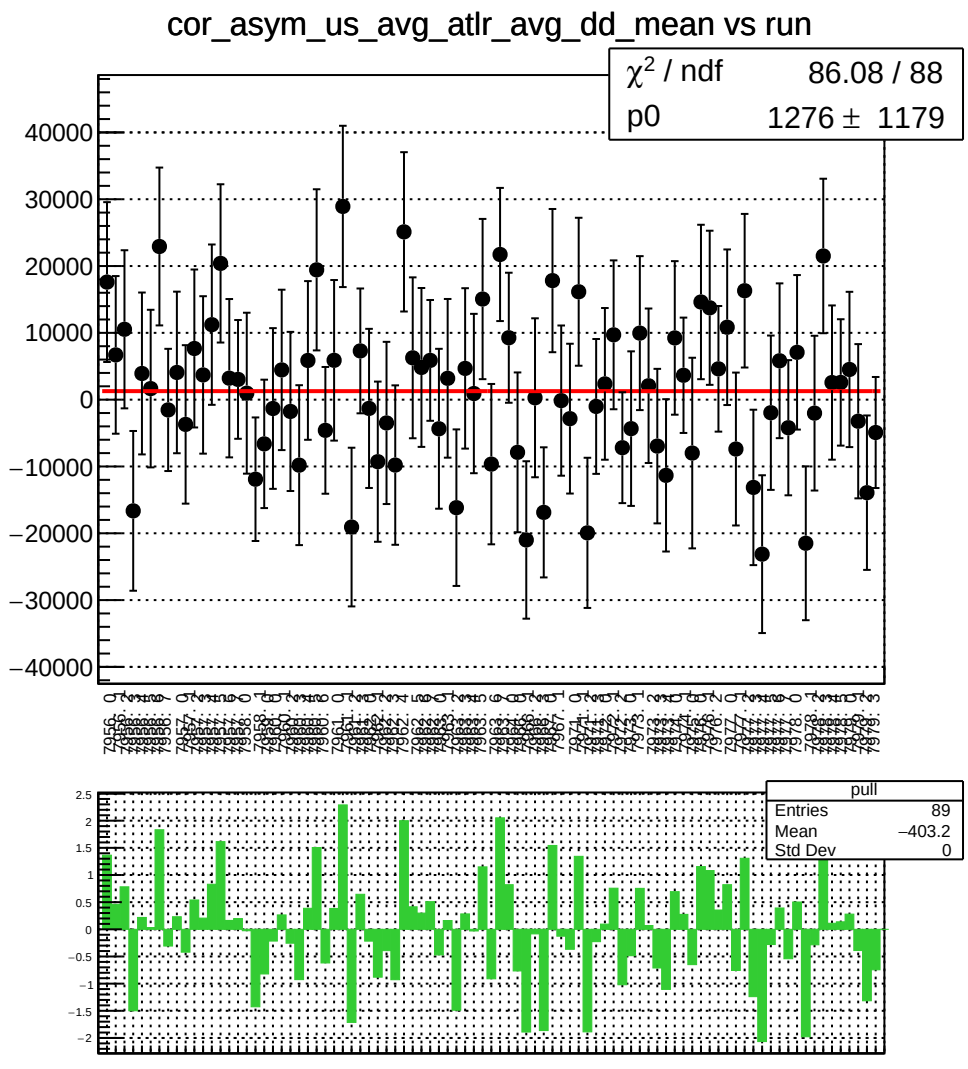

pull1D
Entries 89
Mean 0.008325
Std Dev 0.9834

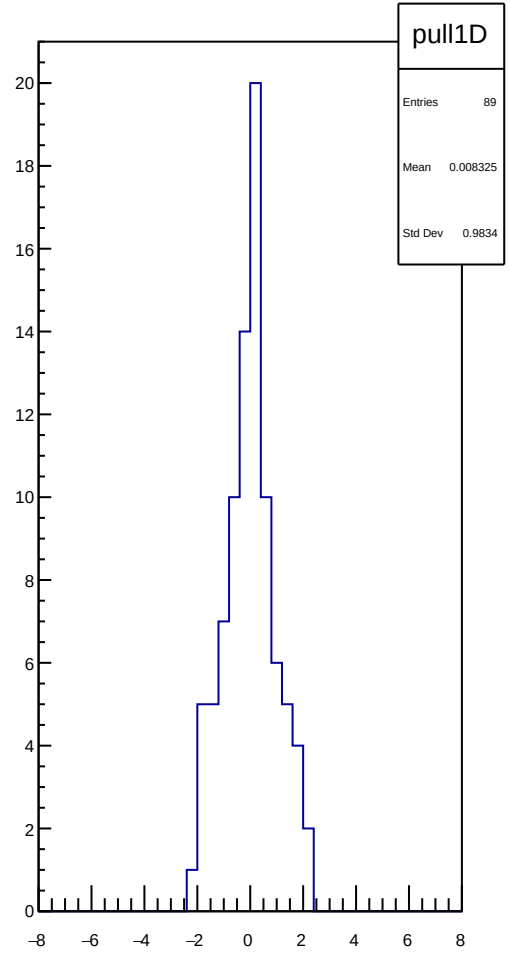

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1152 / 88
p0 1115 ± 0.8339
1200
1150
1100
1050
1000

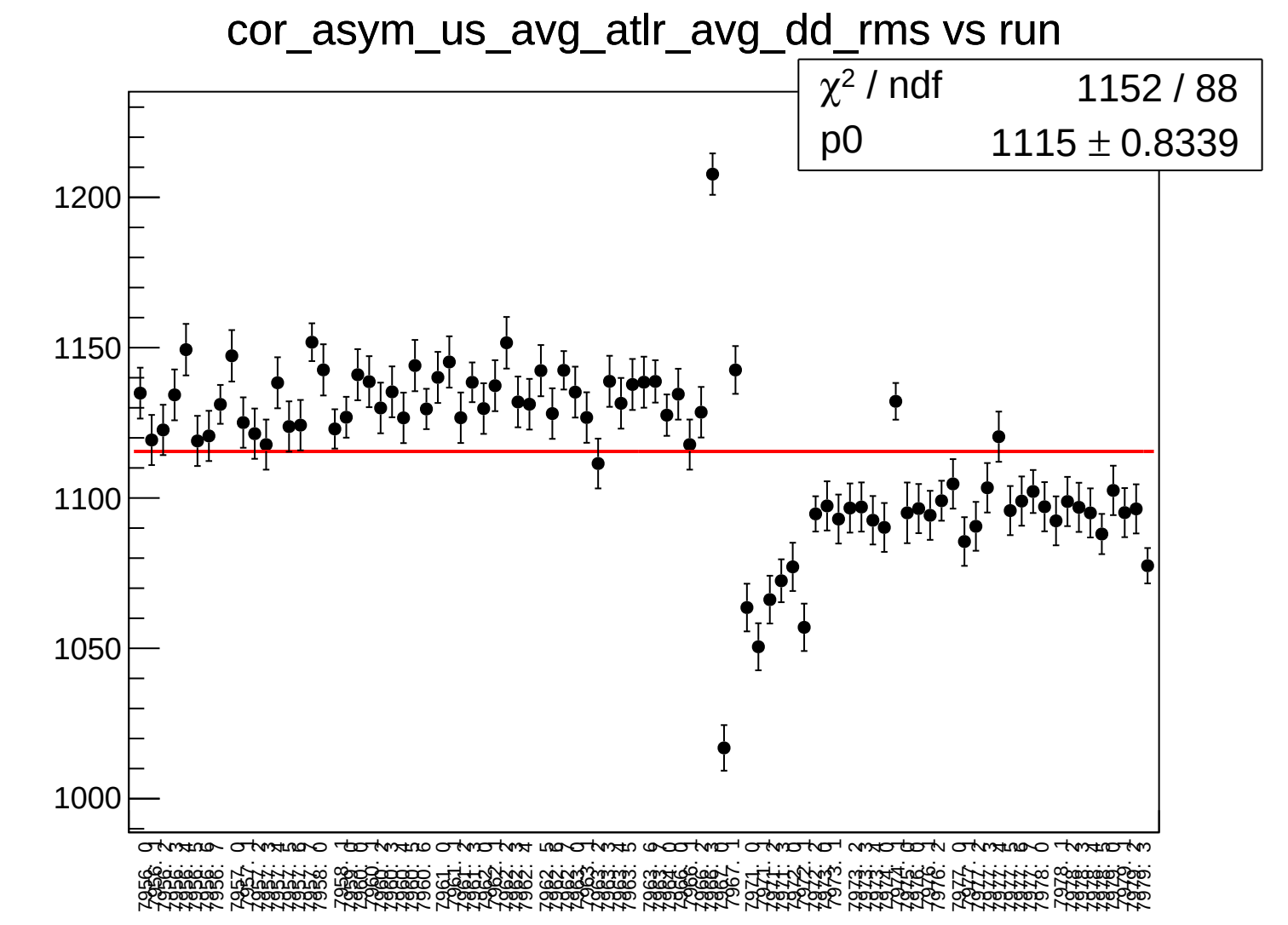

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.15 / 88
p0 −3133 ± 4617
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −413.9
Std Dev 0
2
1
0
−1
−2

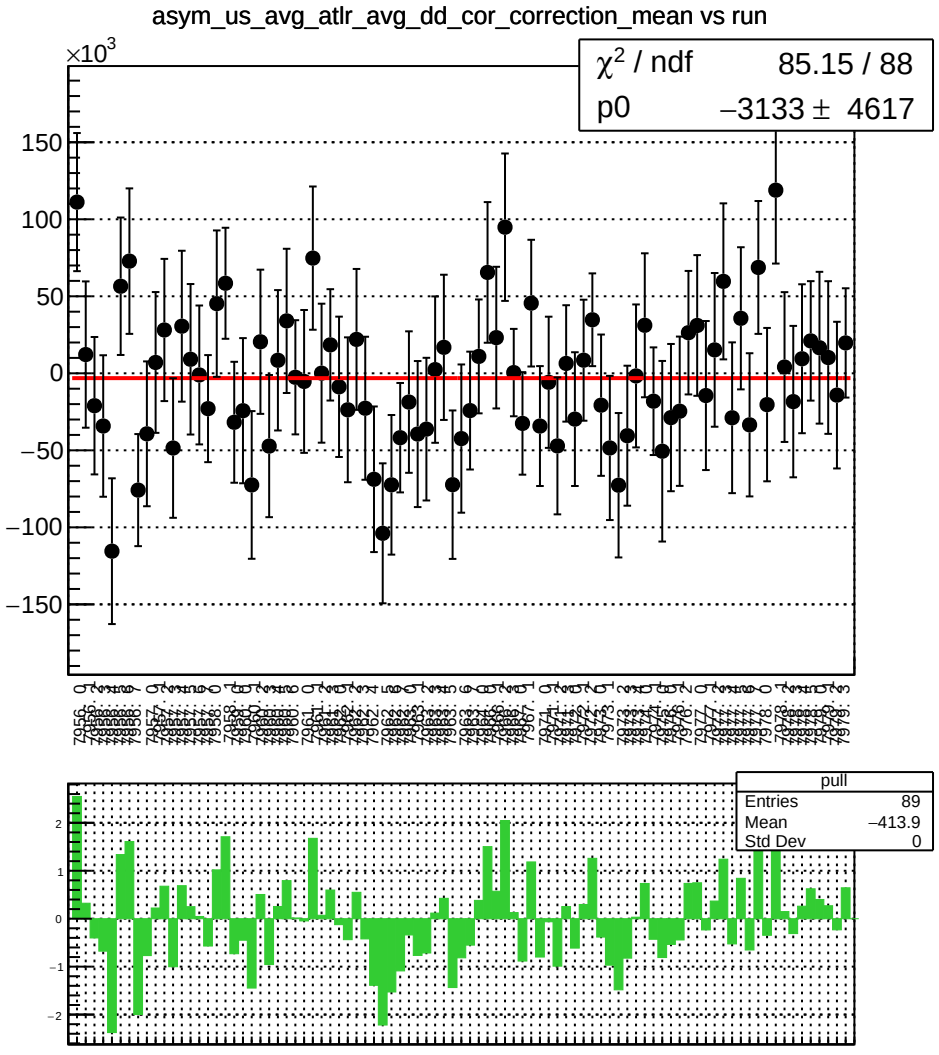

pull1D
Entries 89
Mean −0.004886
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

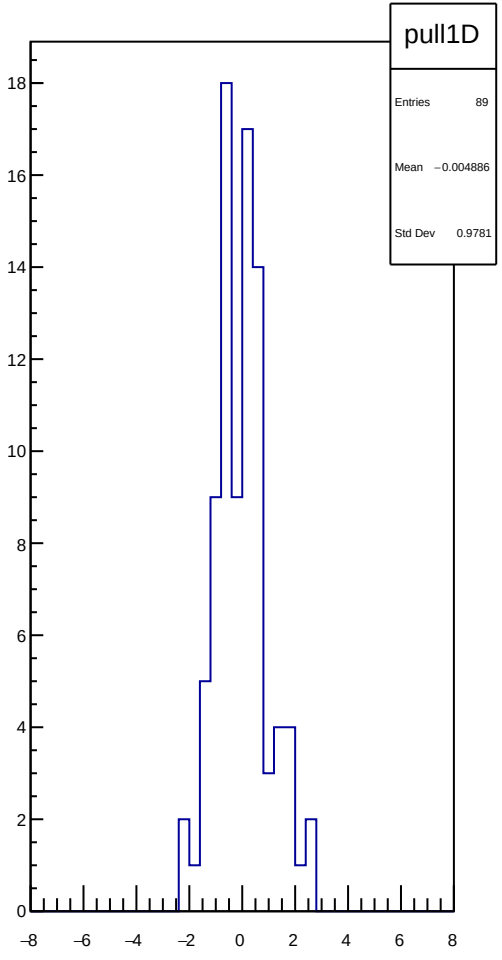

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 8345 / 88
p0 4359 ± 3.265
5000
4500
4000
3500
3000

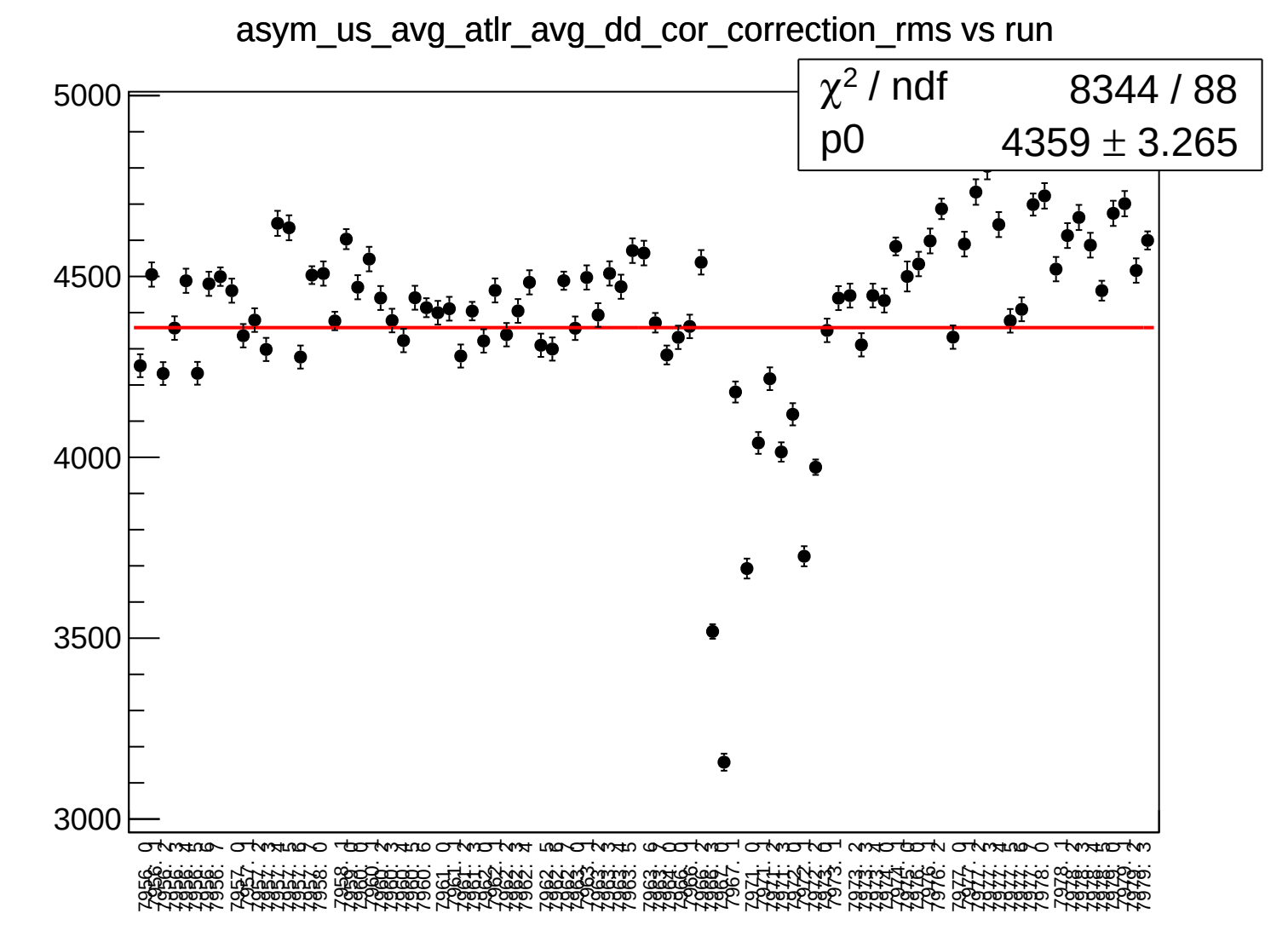

cor_asym_us_avg_atlr_avg_dd_mean vs run
$\chi^2$ / ndf 86.08 / 88
p0 1276 ± 1179
pull
Entries 89
Mean −403.2
Std Dev 0

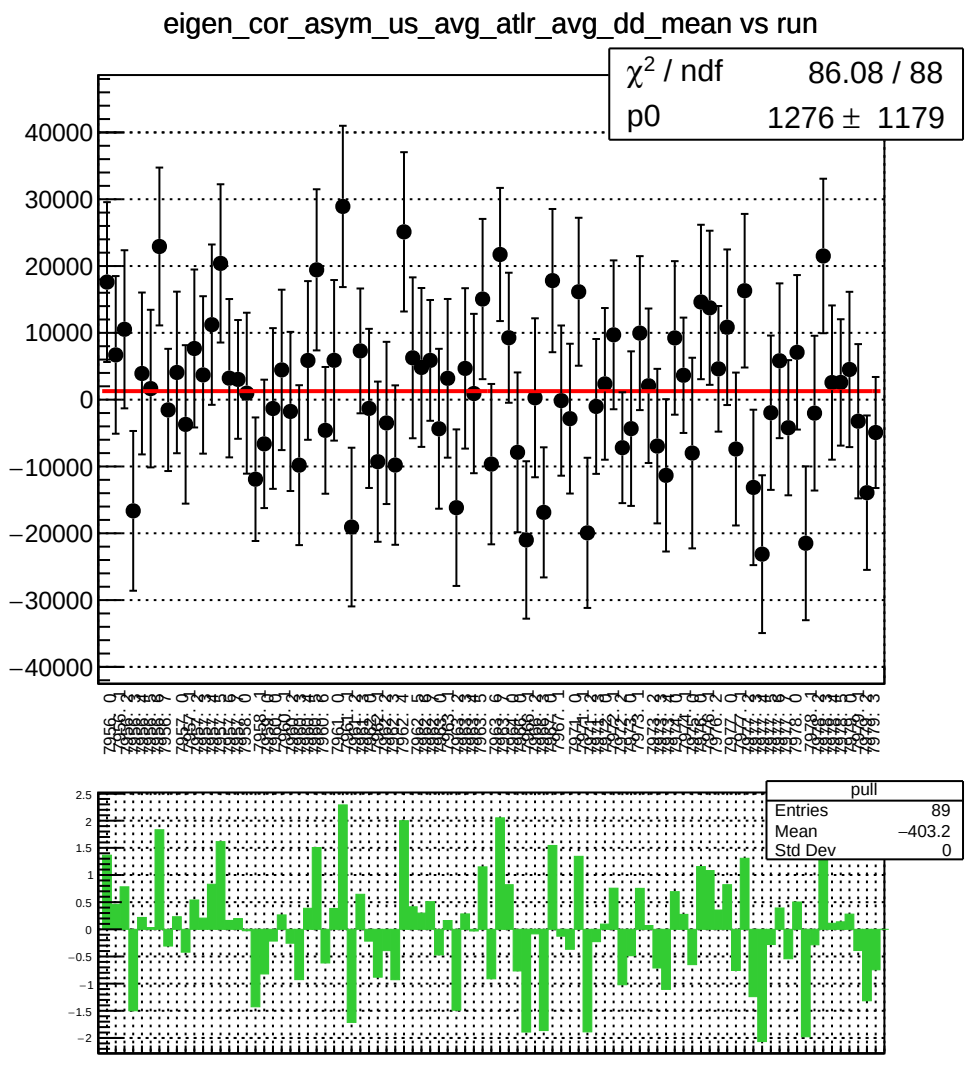

pull1D
Entries 89
Mean 0.008325
Std Dev 0.9834

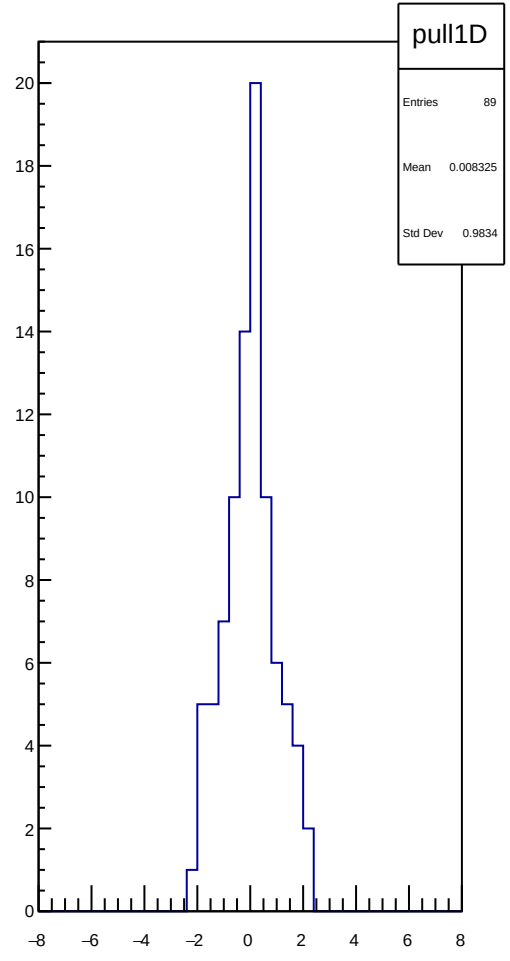

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1152 / 88
p0 1115 ± 0.8339
1200
1150
1100
1050
1000

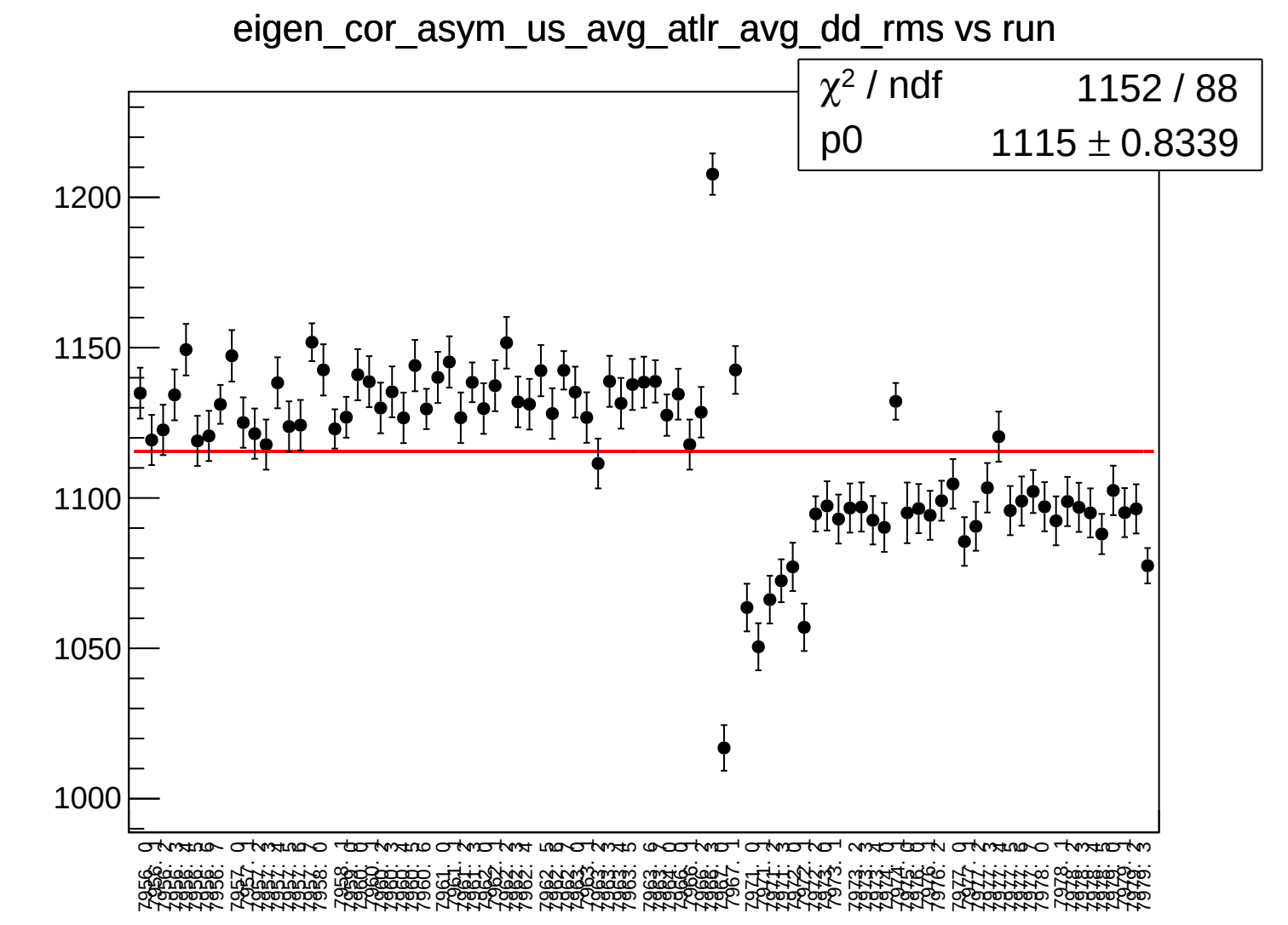

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.15 / 88
p0 −3133 ± 4617
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −413.9
Std Dev 0
2
1
0
−1
−2

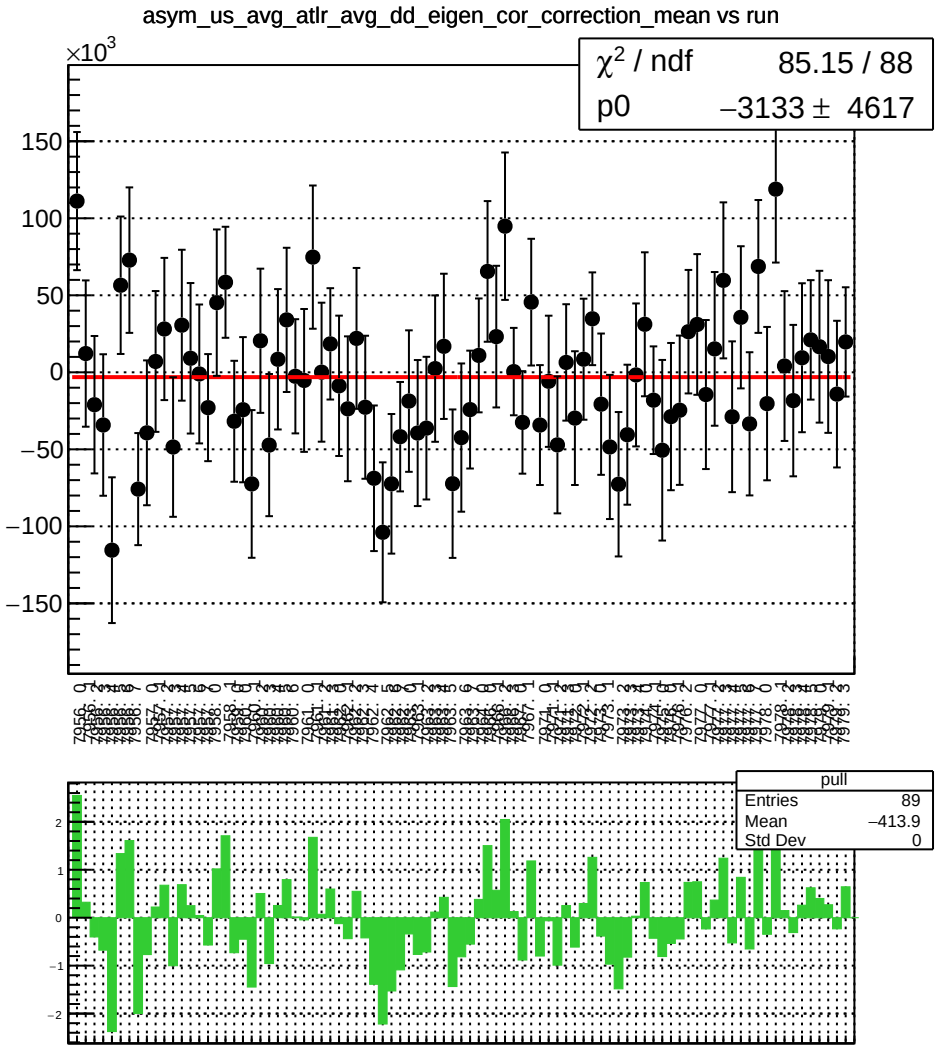

pull1D
Entries 89
Mean −0.004886
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

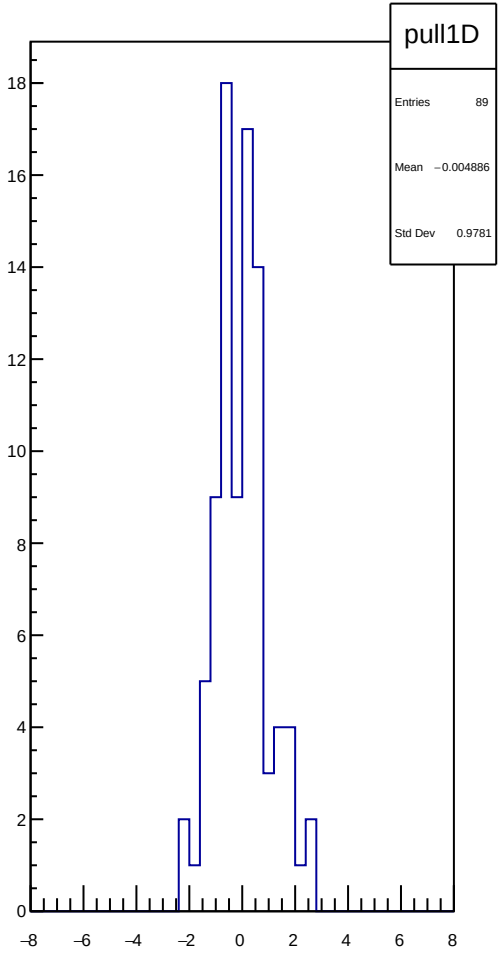

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 8344 / 88
p0 4359 ± 3.265
5000
4500
4000
3500
3000

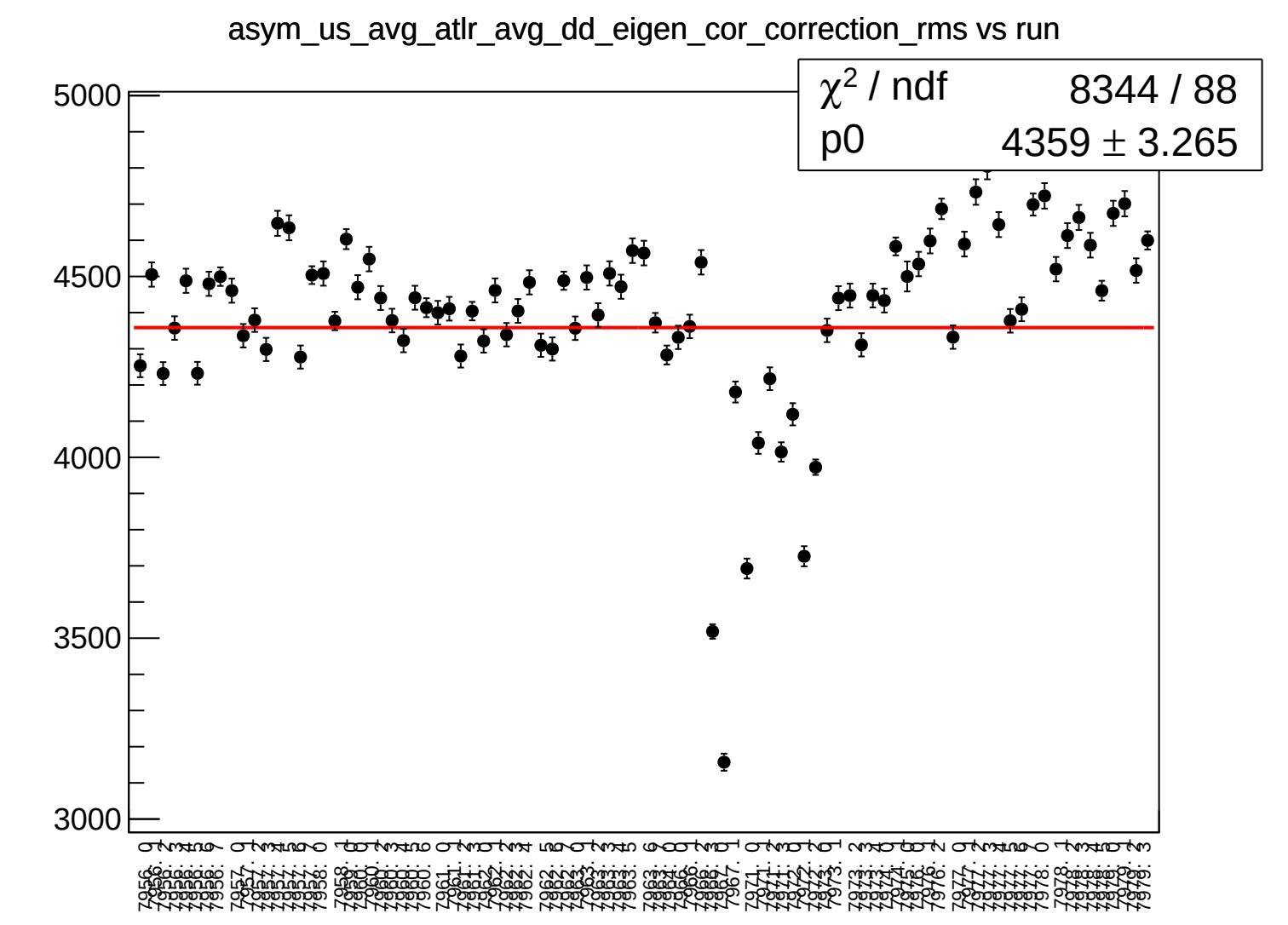

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 86.08 / 88
p0 1276 ± 1179
pull
Entries 89
Mean −403.2
Std Dev 0

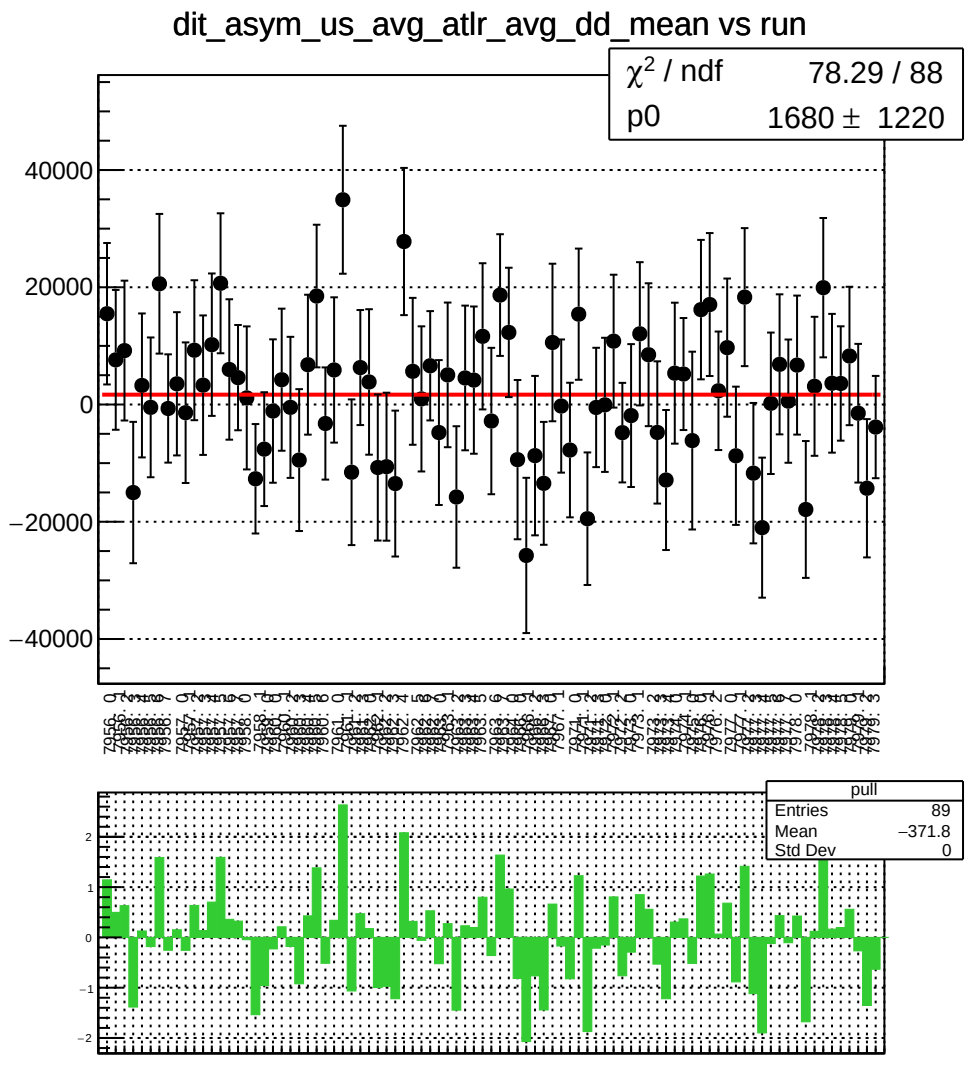

pull1D
Entries 89
Mean 0.008325
Std Dev 0.9834

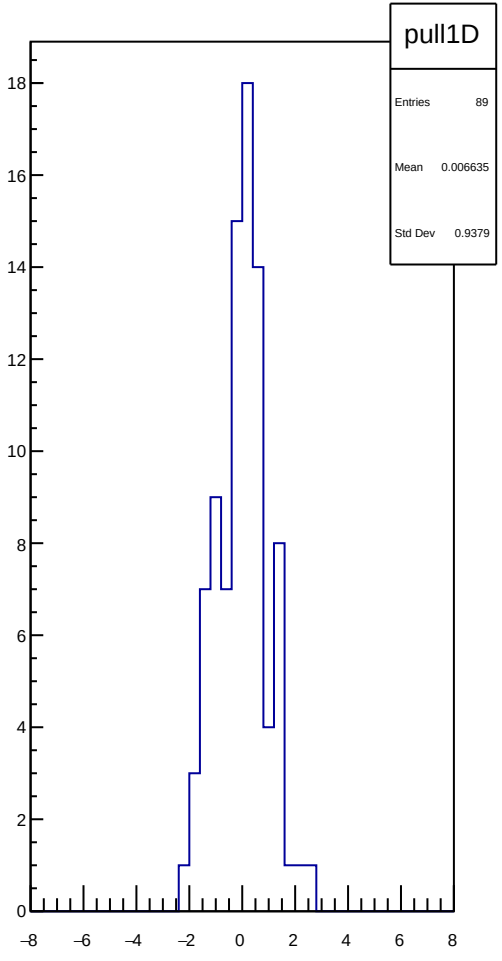

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1152 / 88
p0 1115 ± 0.8339
1200
1150
1100
1050
1000

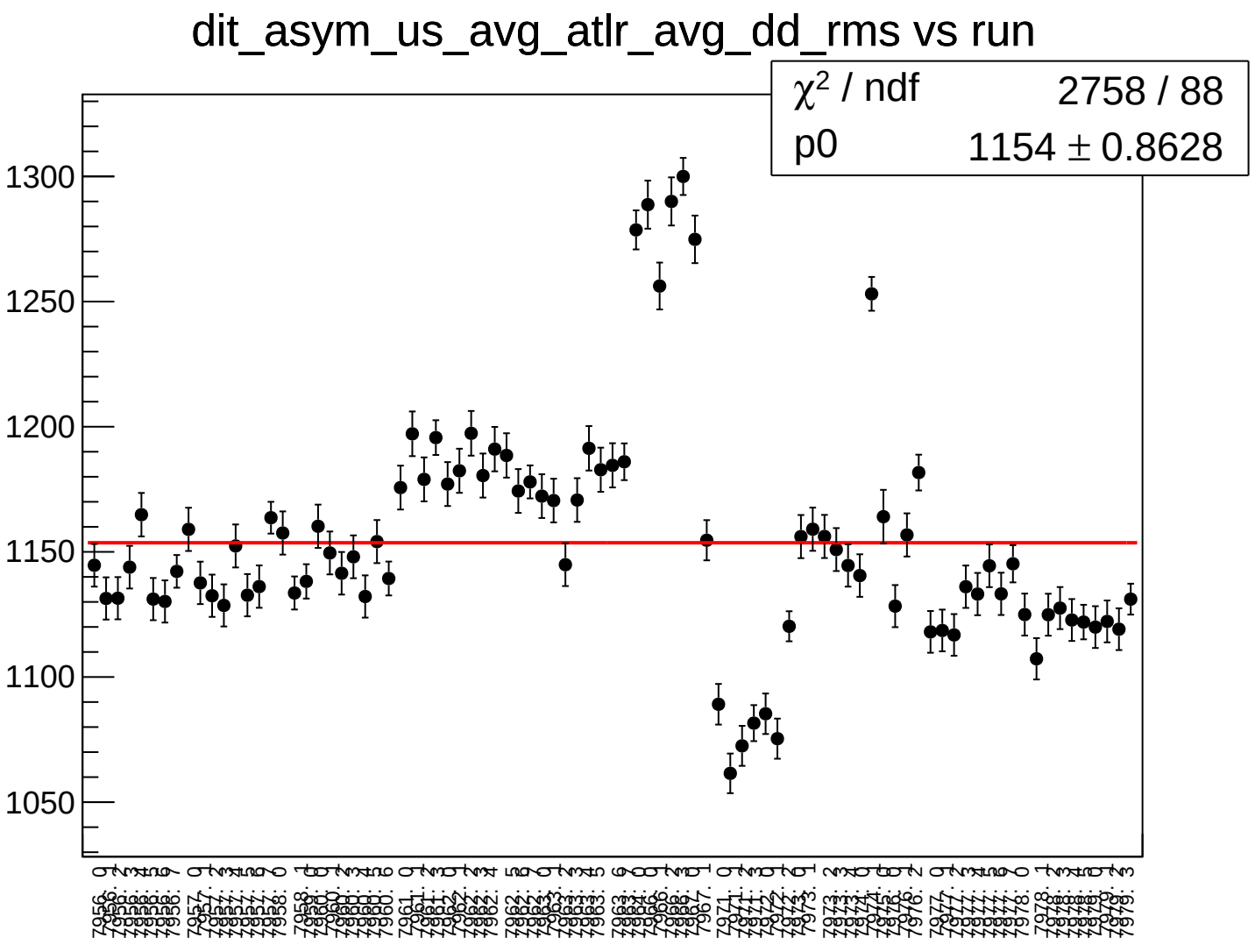

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.15 / 88
p0 −3133 ± 4617
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −413.9
Std Dev 0
2
1
0
−1
−2

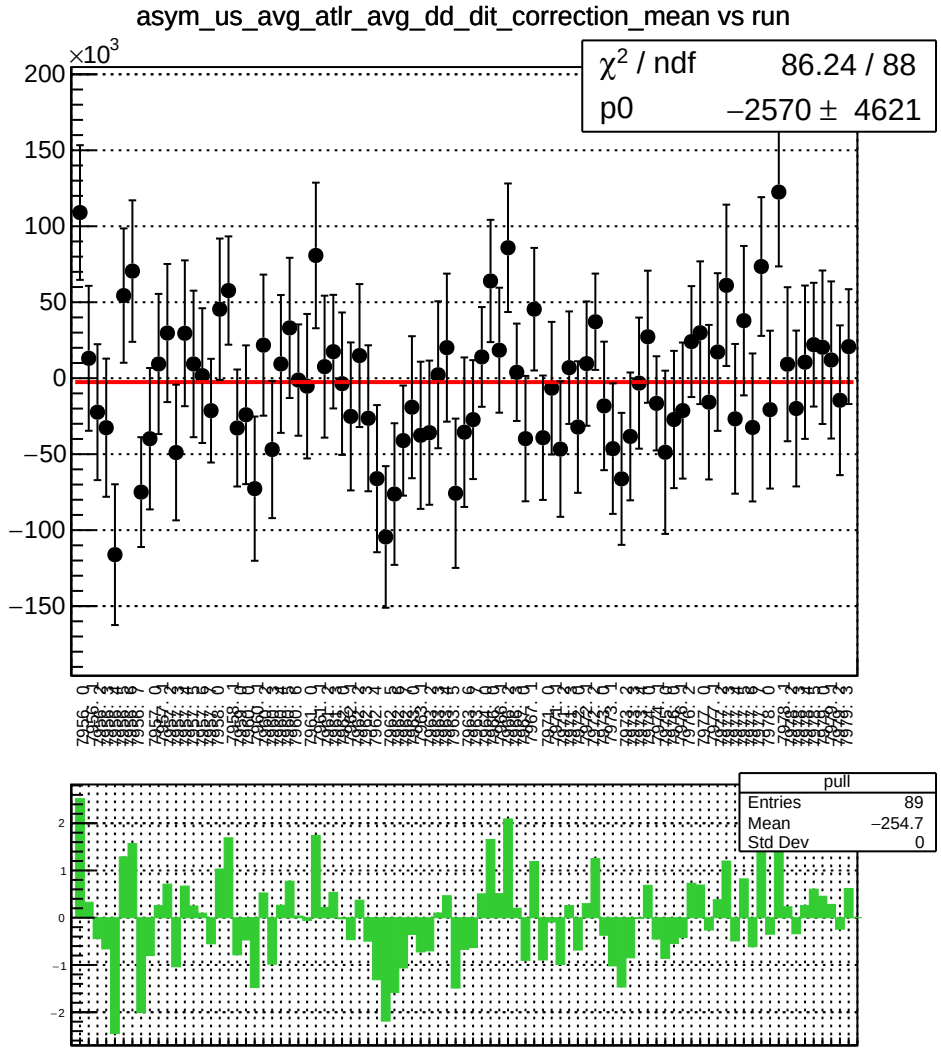

pull1D
Entries 89
Mean −0.004886
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

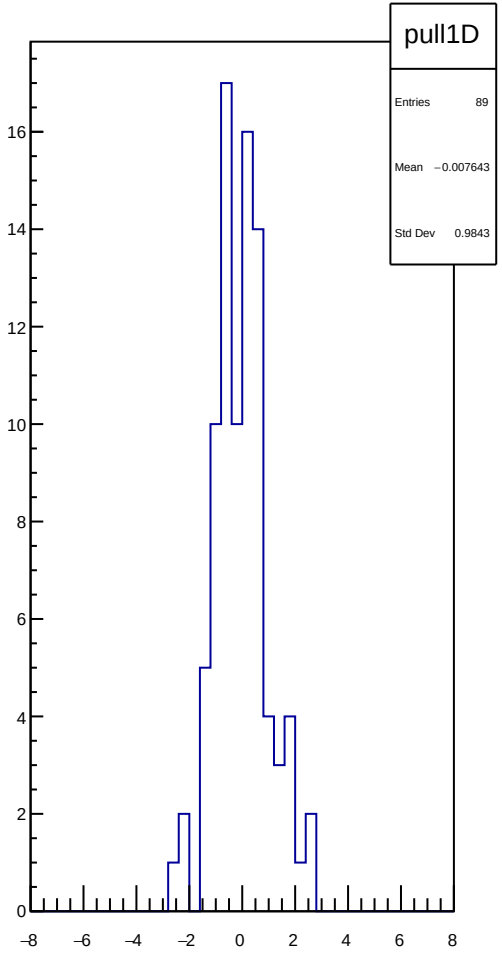

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 8344 / 88
p0 4359 ± 3.265
5000
4500
4000
3500
3000

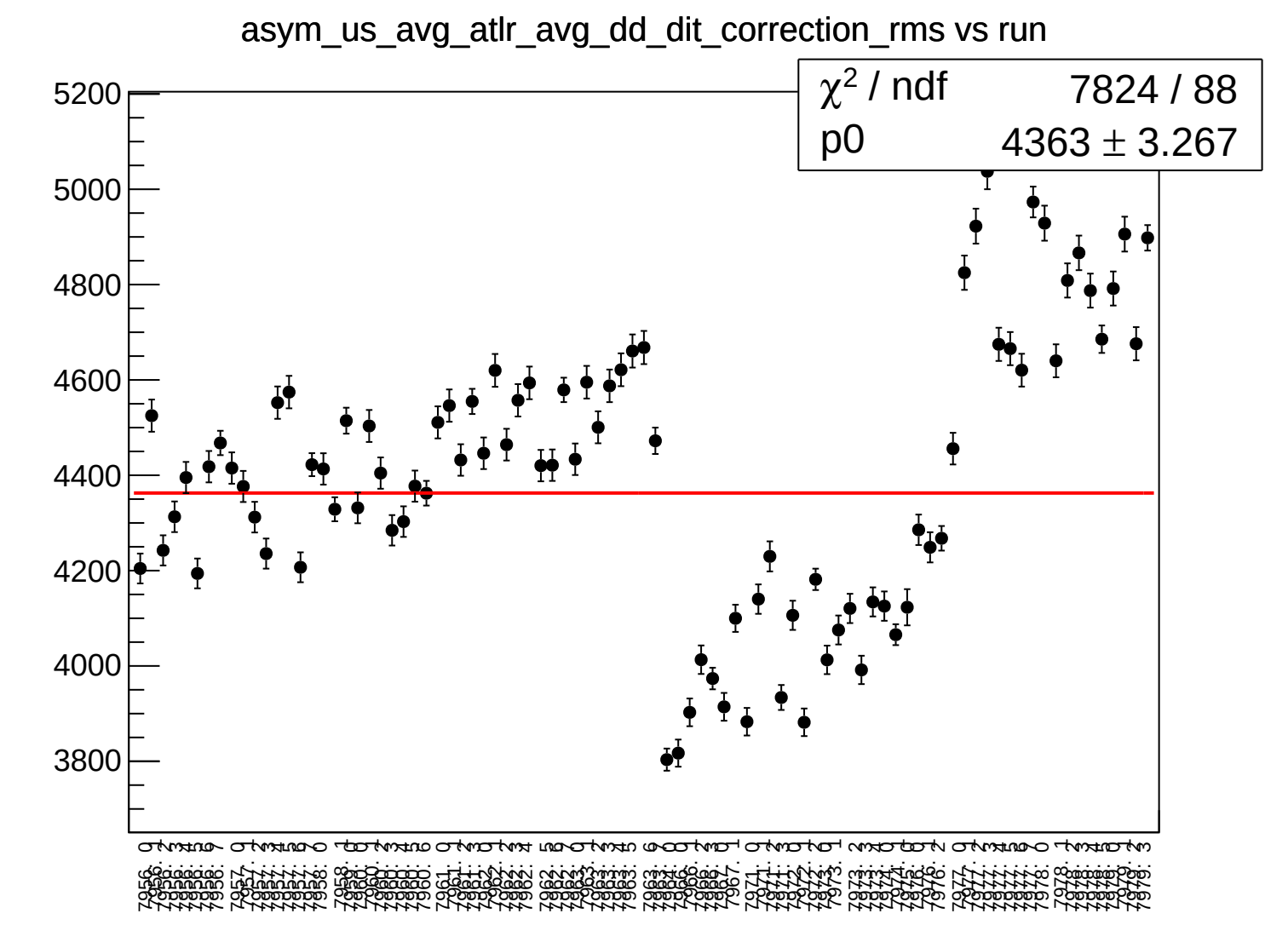

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 78.29 / 88
p0 1680 ± 1220
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −371.8
Std Dev 0
2
1
0
−1
−2

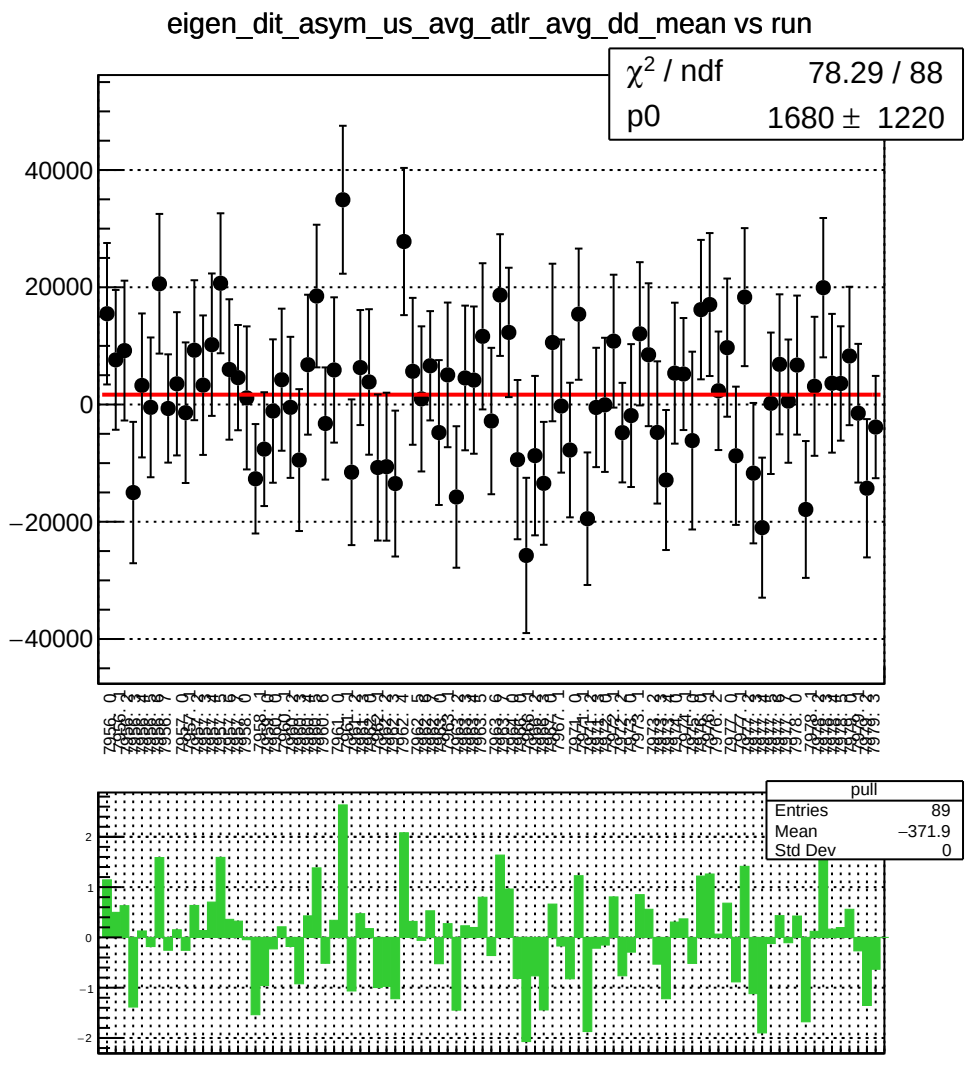

pull1D
Entries 89
Mean 0.006635
Std Dev 0.9379
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

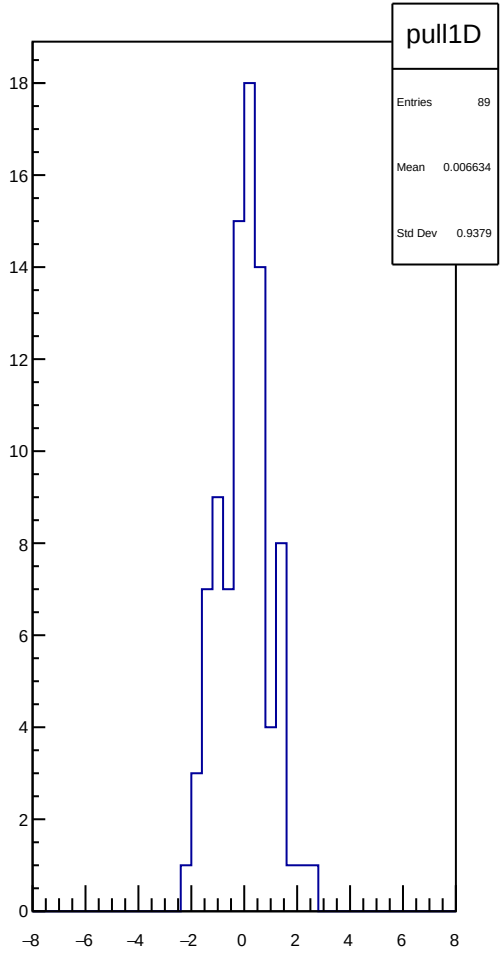

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2758 / 88
p0 1154 ± 0.8628
1300
1250
1200
1150
1100
1050

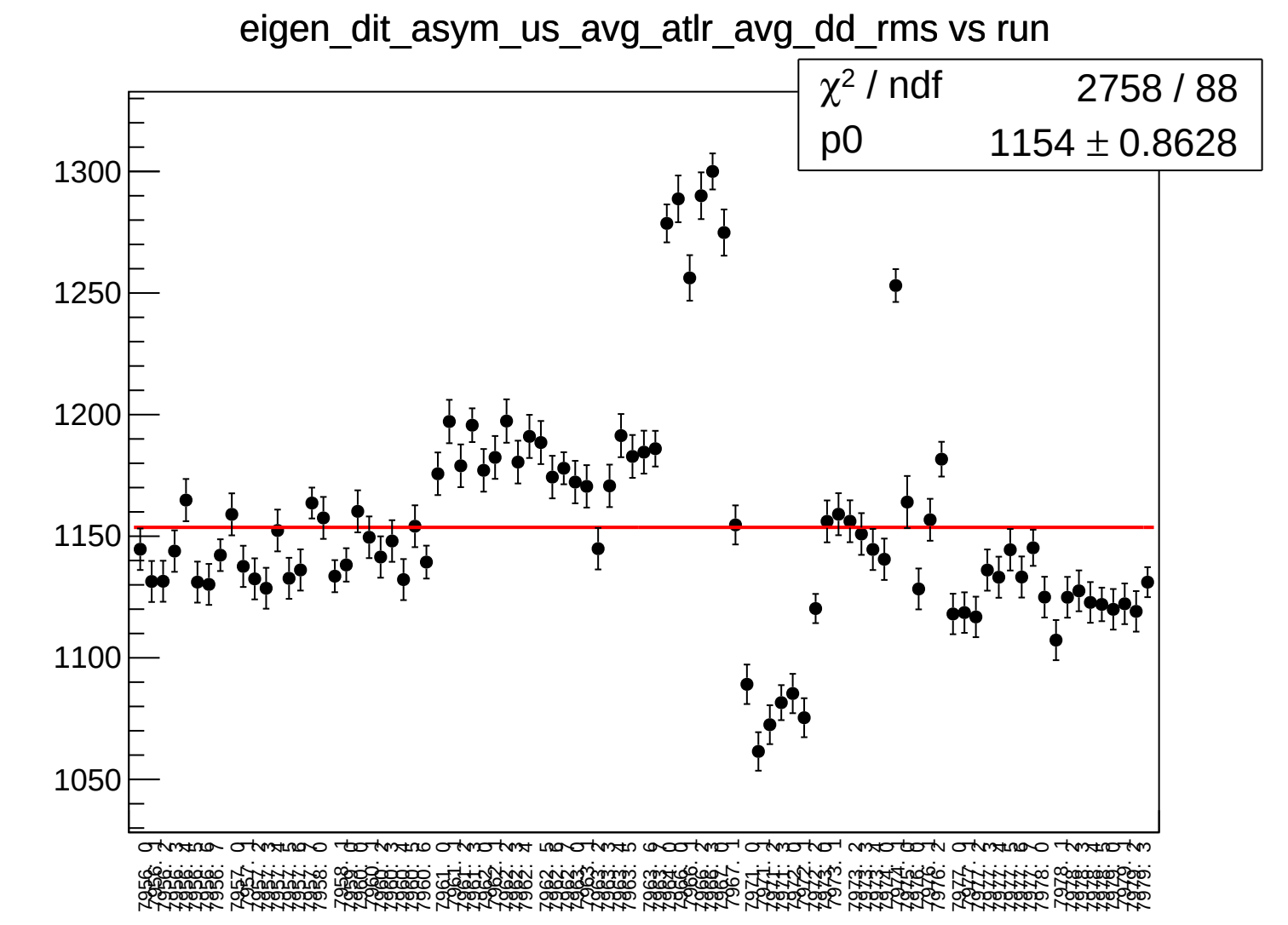

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.24 / 88
p0 −2570 ± 4621
pull
Entries 89
Mean −254.7
Std Dev 0

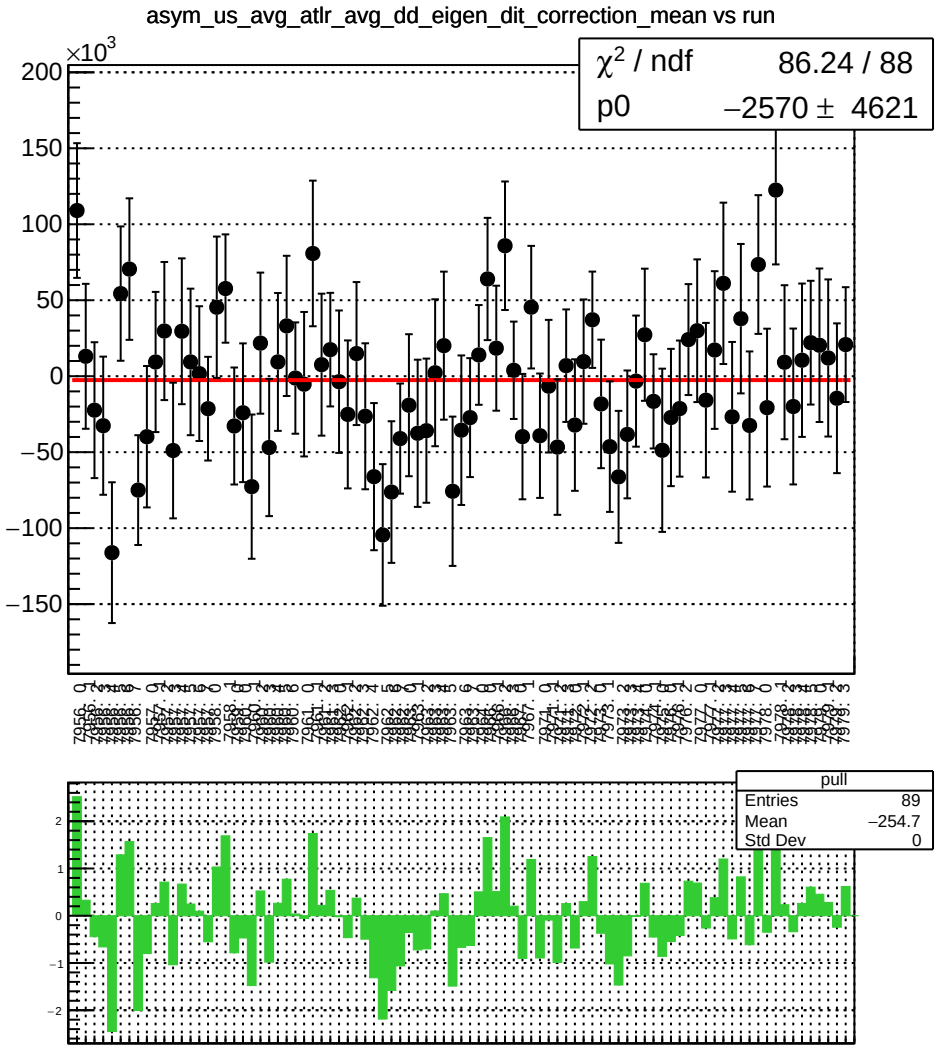

pull1D
Entries 89
Mean −0.007643
Std Dev 0.9843

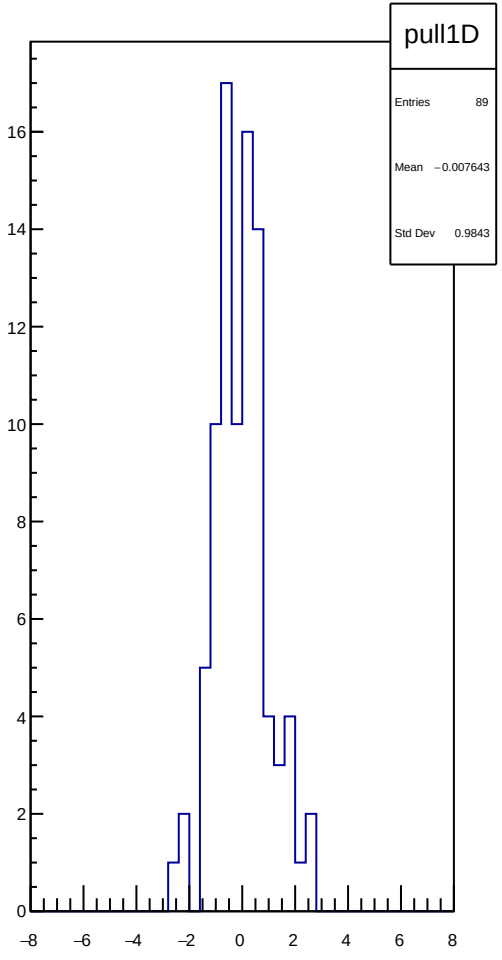

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 7824 / 88
p0 4363 ± 3.267
5200
5000
4800
4600
4400
4200
4000
3800

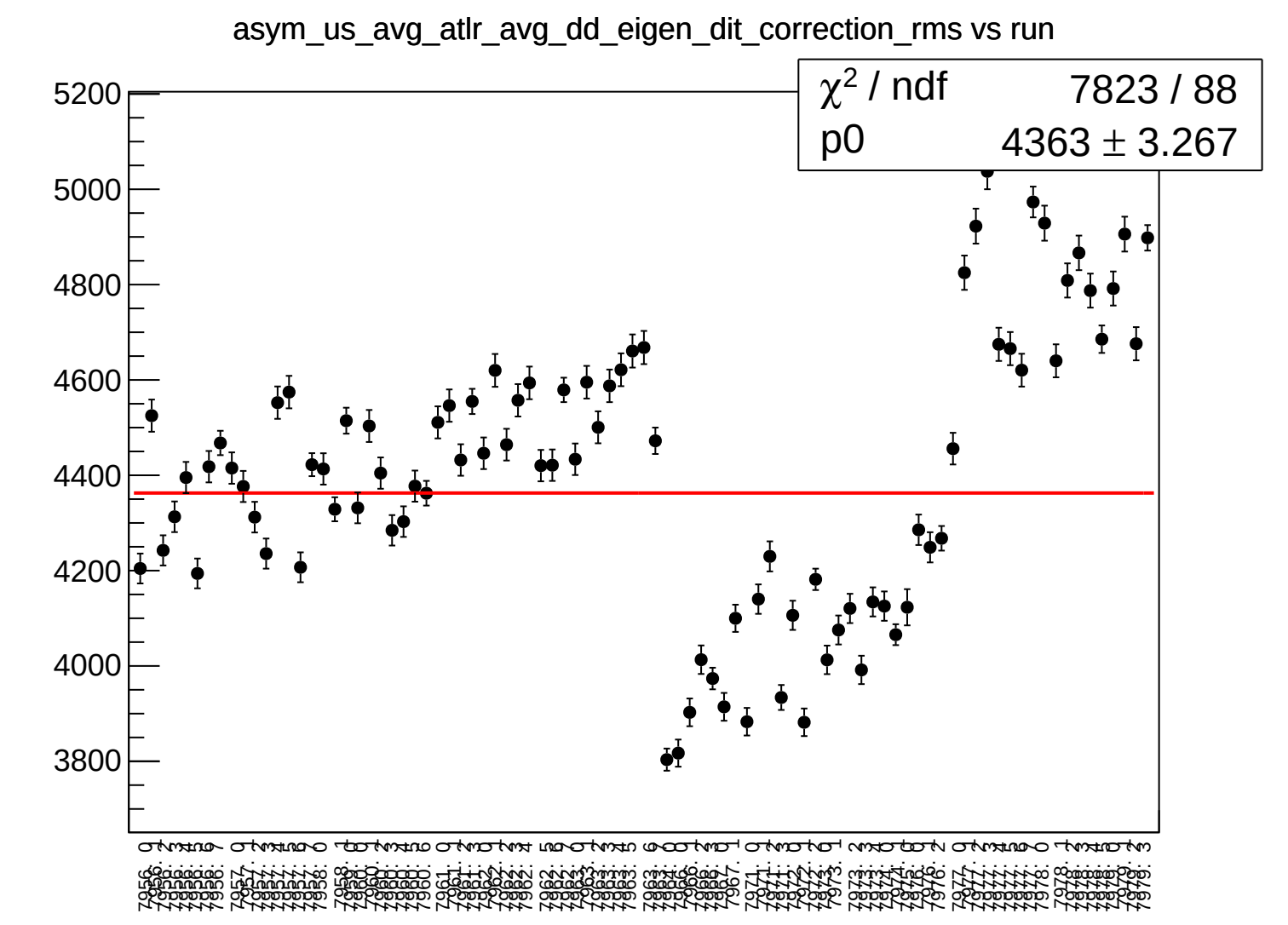

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 78.29 / 88
p0 1680 ± 1220
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −371.9
Std Dev 0
2
1
0
−1
−2

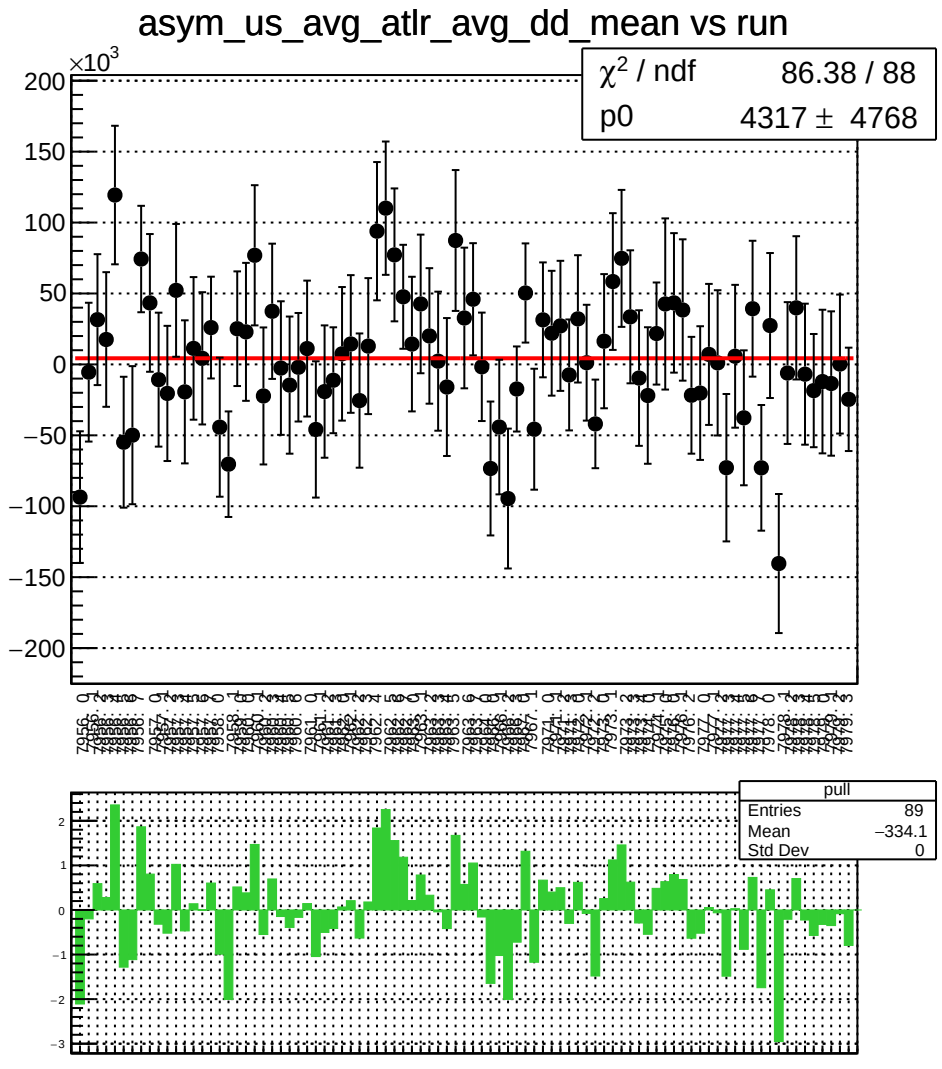

pull1D
Entries 89
Mean 0.006634
Std Dev 0.9379
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

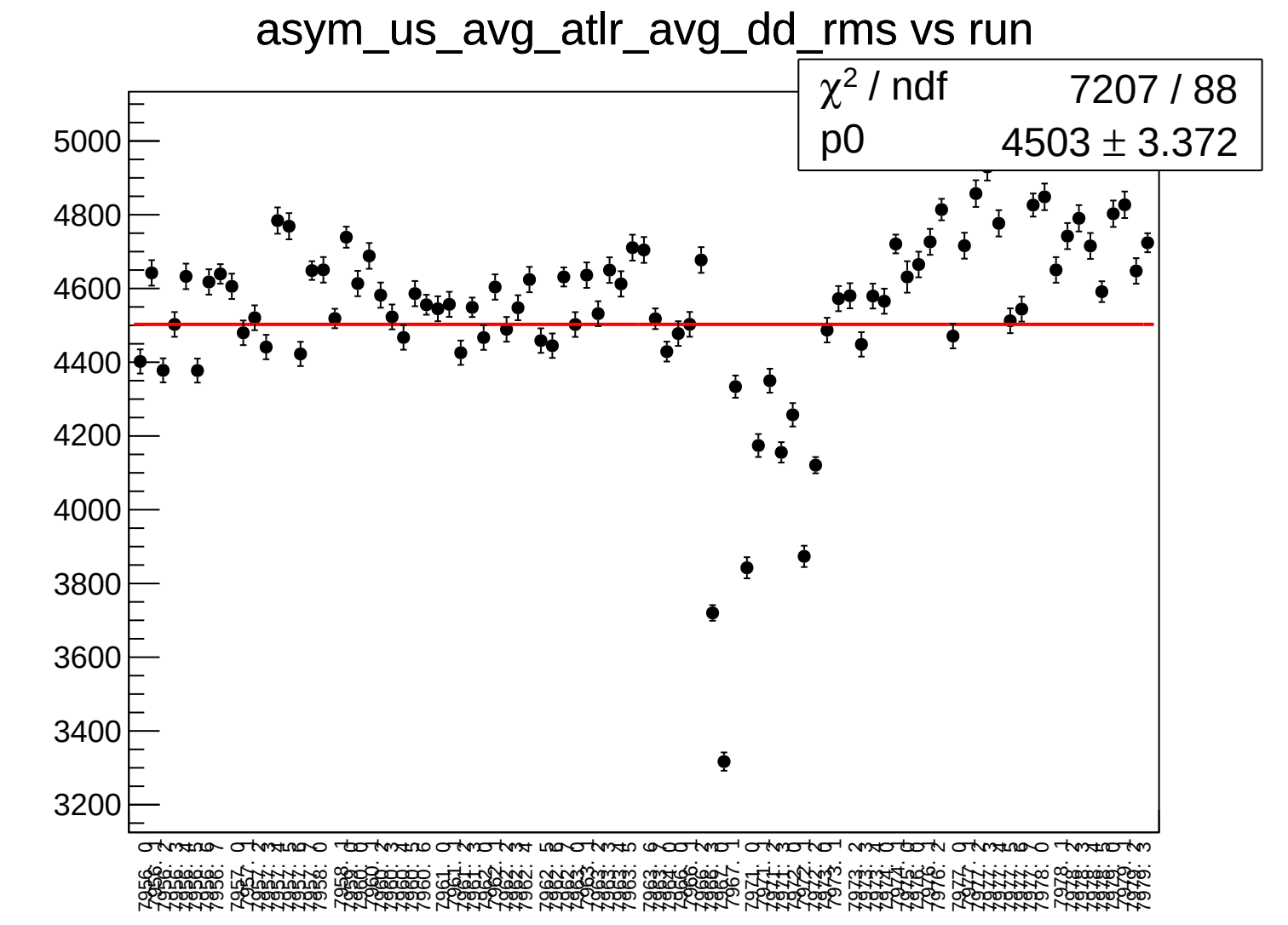

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2758 / 88
p0 1154 ± 0.8628
1300
1250
1200
1150
1100
1050

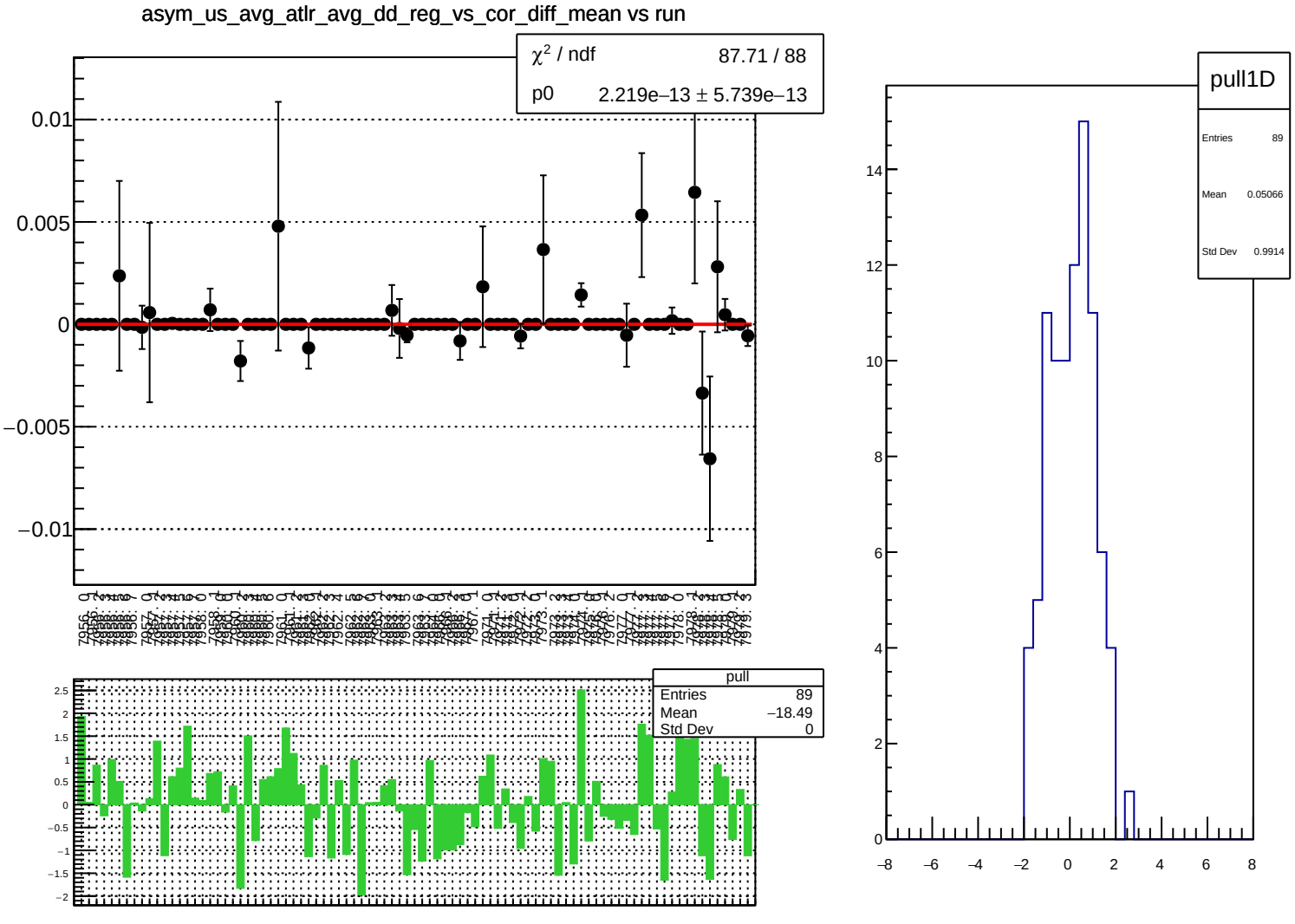

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.24 / 88
p0 −2570 ± 4621
pull
Entries 89
Mean −254.7
Std Dev 0

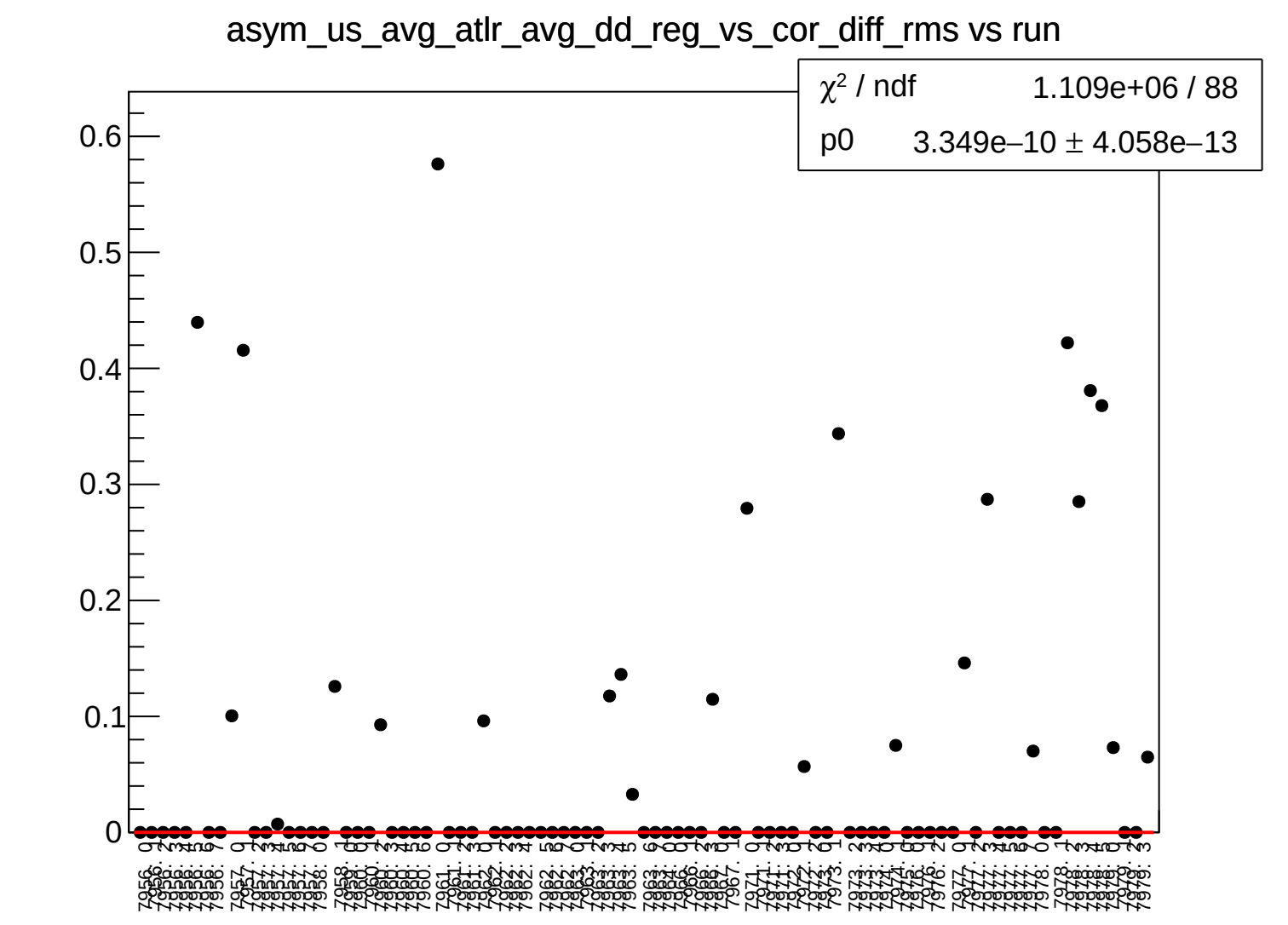

pull1D
Entries 89
Mean −0.007643
Std Dev 0.9843

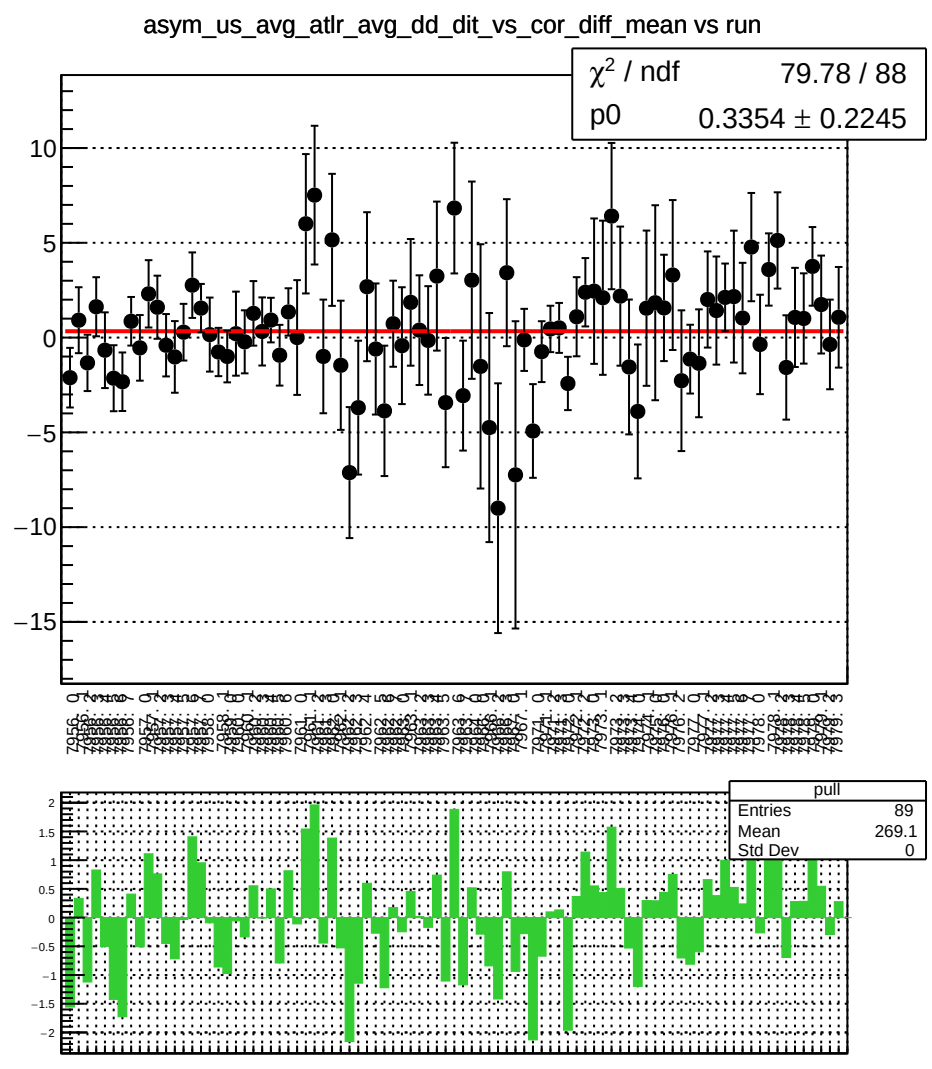

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7823 / 88
p0 4363 ± 3.267
5200
5000
4800
4600
4400
4200
4000
3800

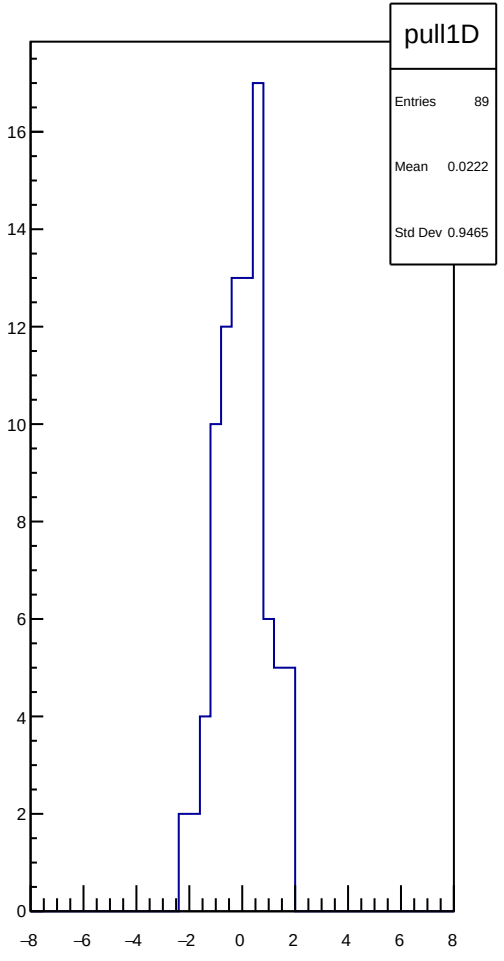

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 86.38 / 88
p0 4317 ± 4768
pull
Entries 89
Mean −334.1
Std Dev 0
pull1D
Entries 89
Mean 0.008153
Std Dev 0.9852

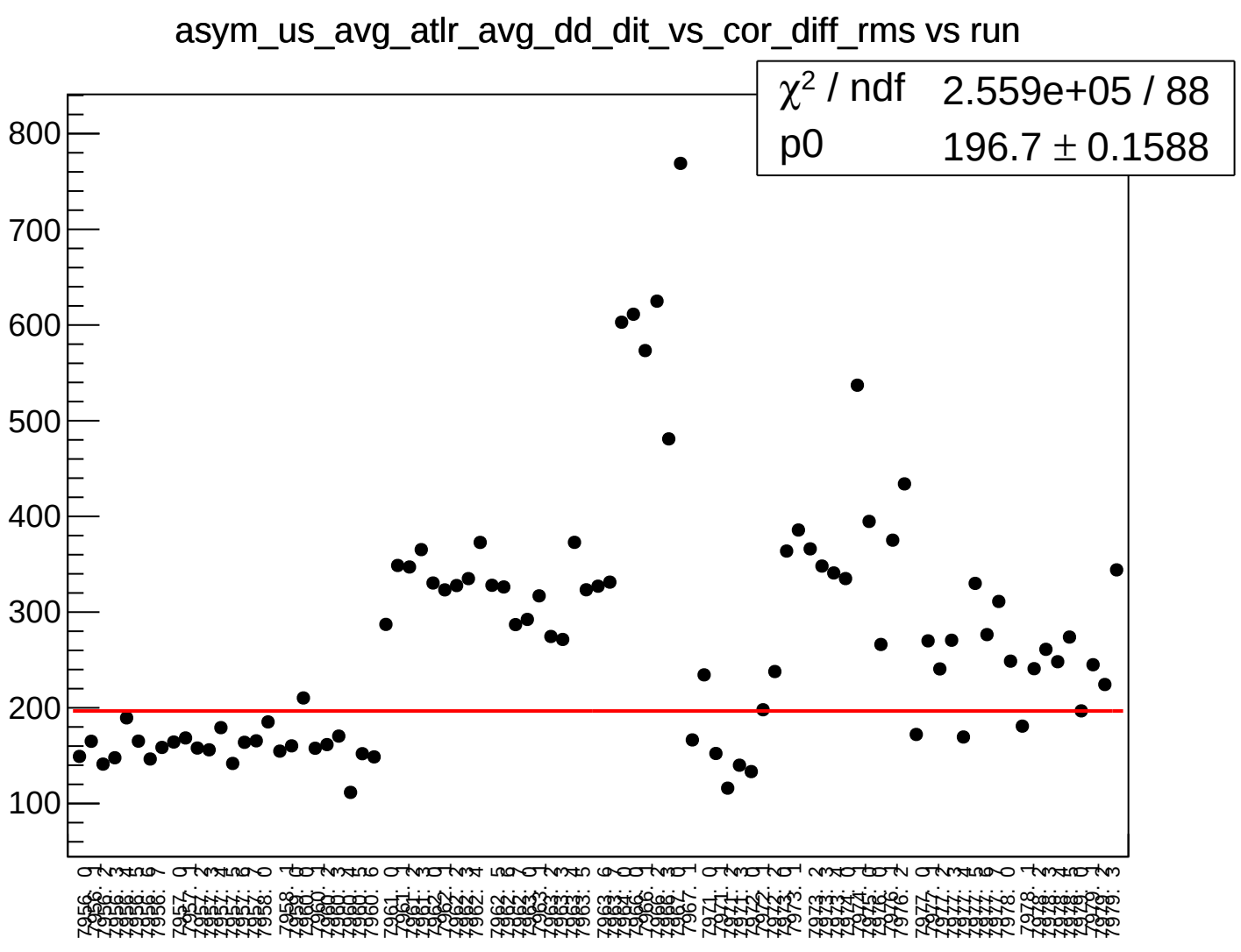

asym_us_avg_atlr_avg_dd_rms vs run
$\chi^2$ / ndf 7207 / 88
p0 4503 ± 3.372
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

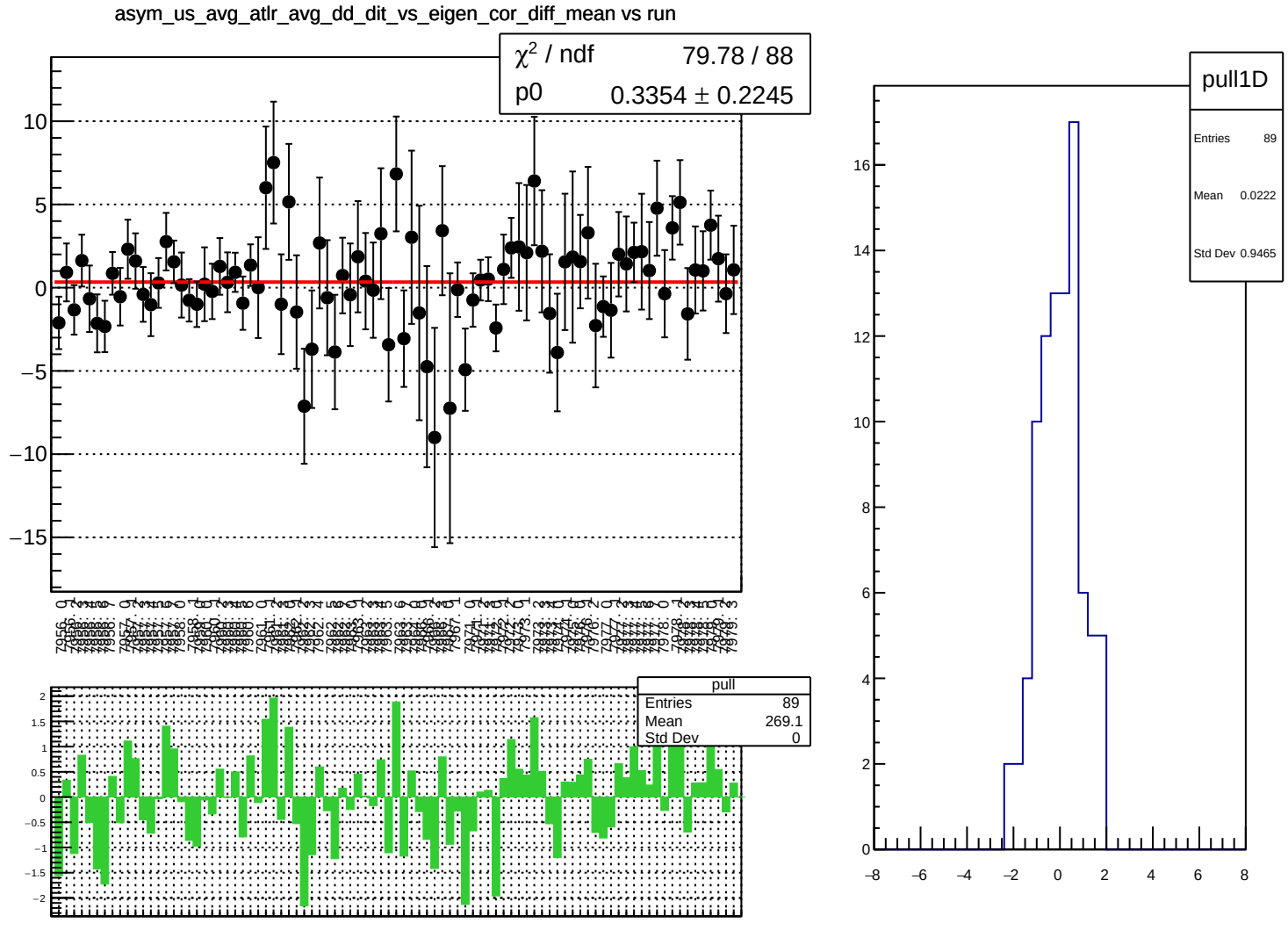

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.71 / 88
p0 2.219e−13 ± 5.739e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean −18.49
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.05066
Std Dev 0.9914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

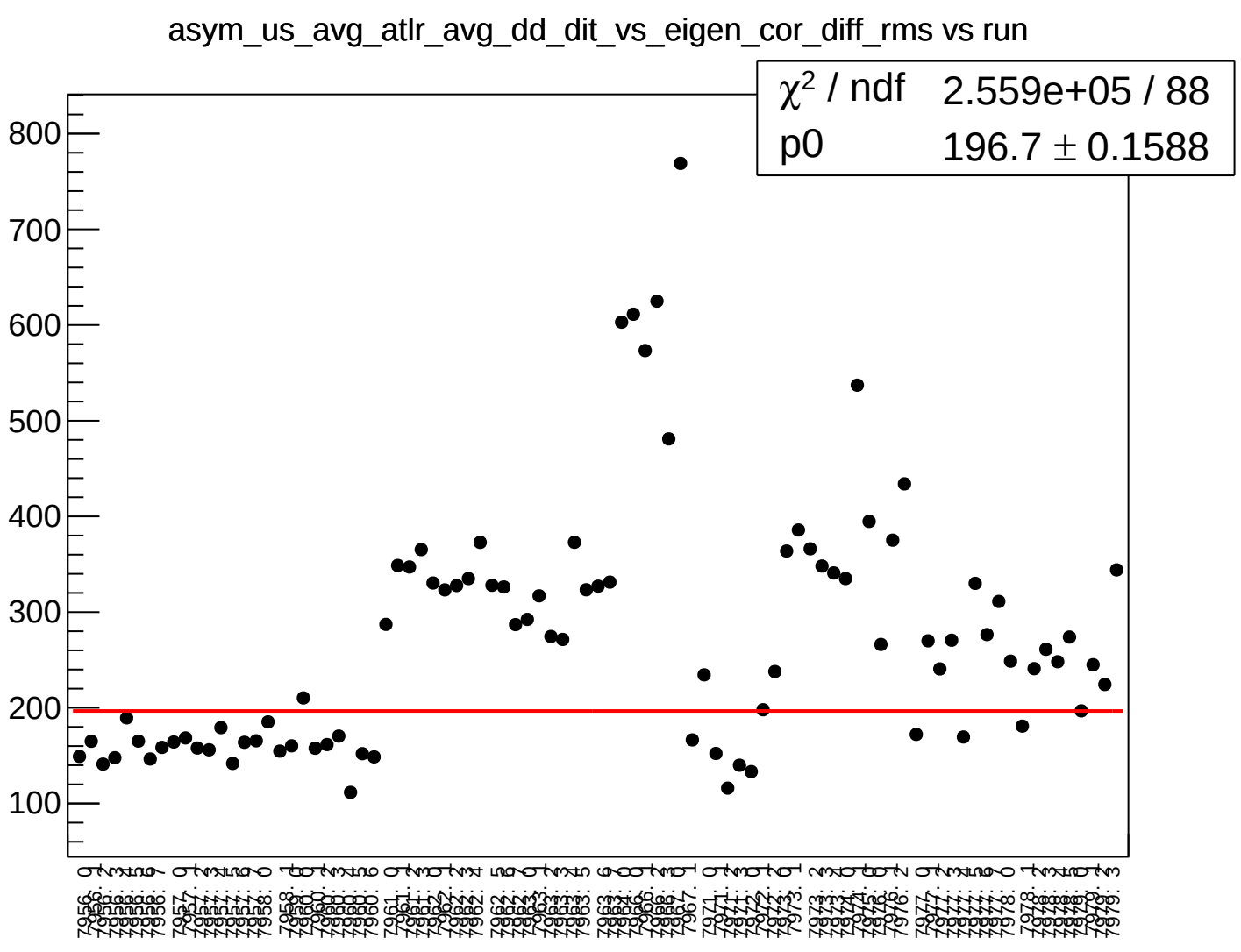

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.109e+06 / 88
p0 3.349e−10 ± 4.058e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

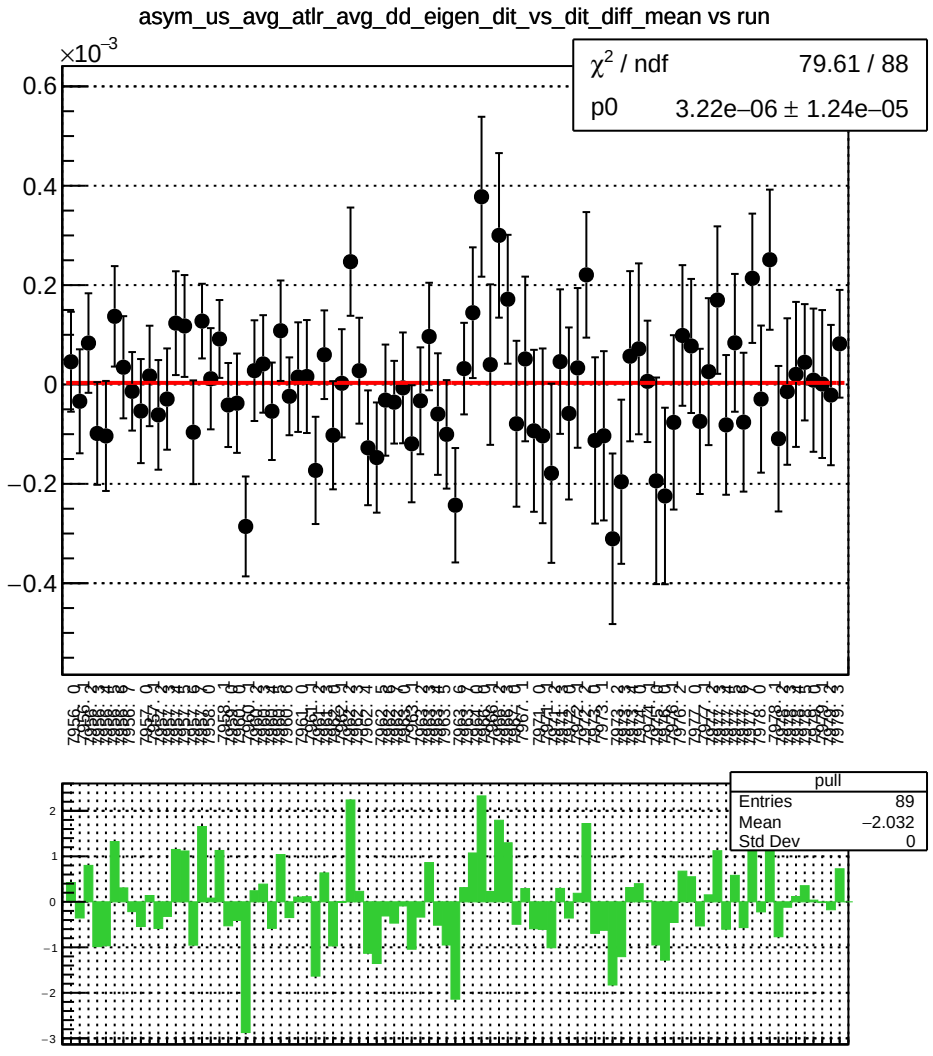

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.78 / 88
p0 0.3354 ± 0.2245
pull
Entries 89
Mean 269.1
Std Dev 0

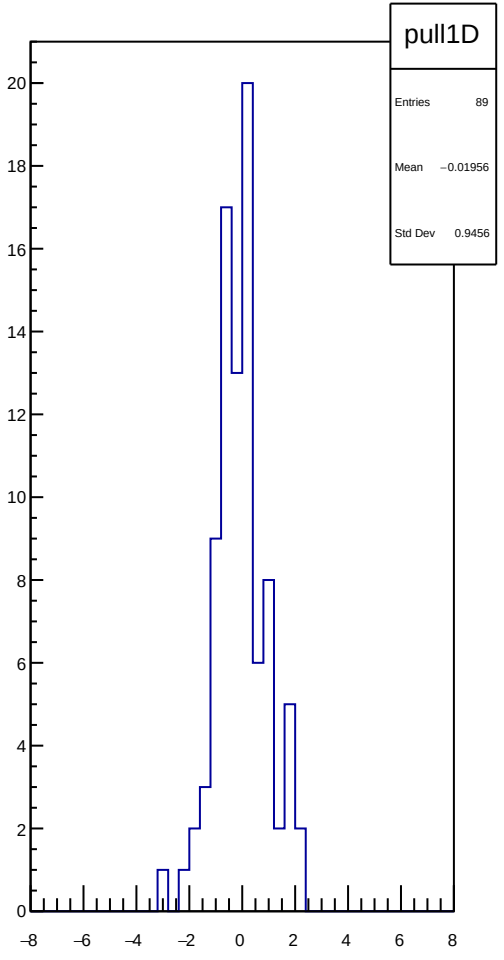

pull1D
Entries 89
Mean 0.0222
Std Dev 0.9465

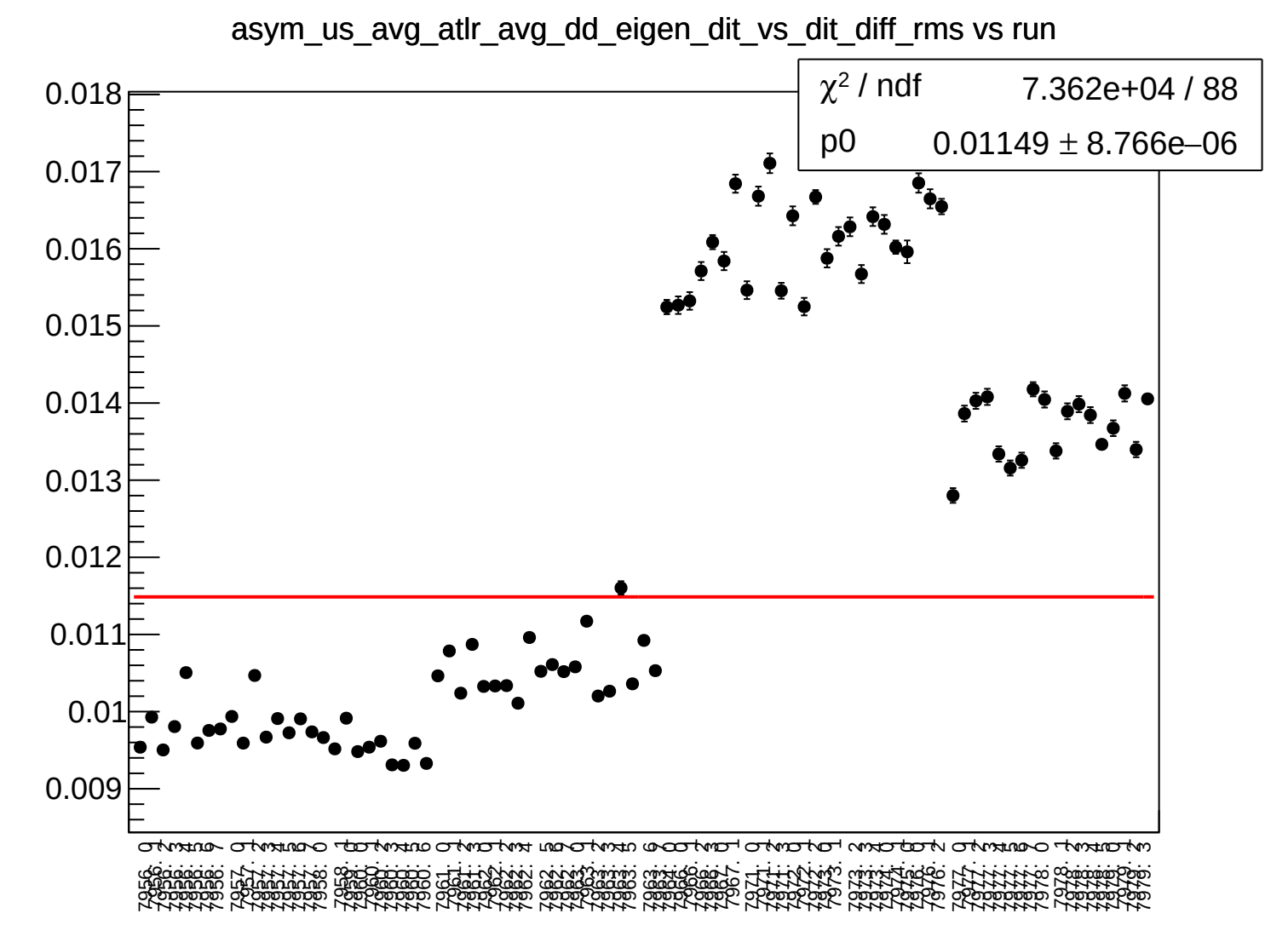

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.559e+05 / 88
p0 196.7 ± 0.1588
800
700
600
500
400
300
200
100

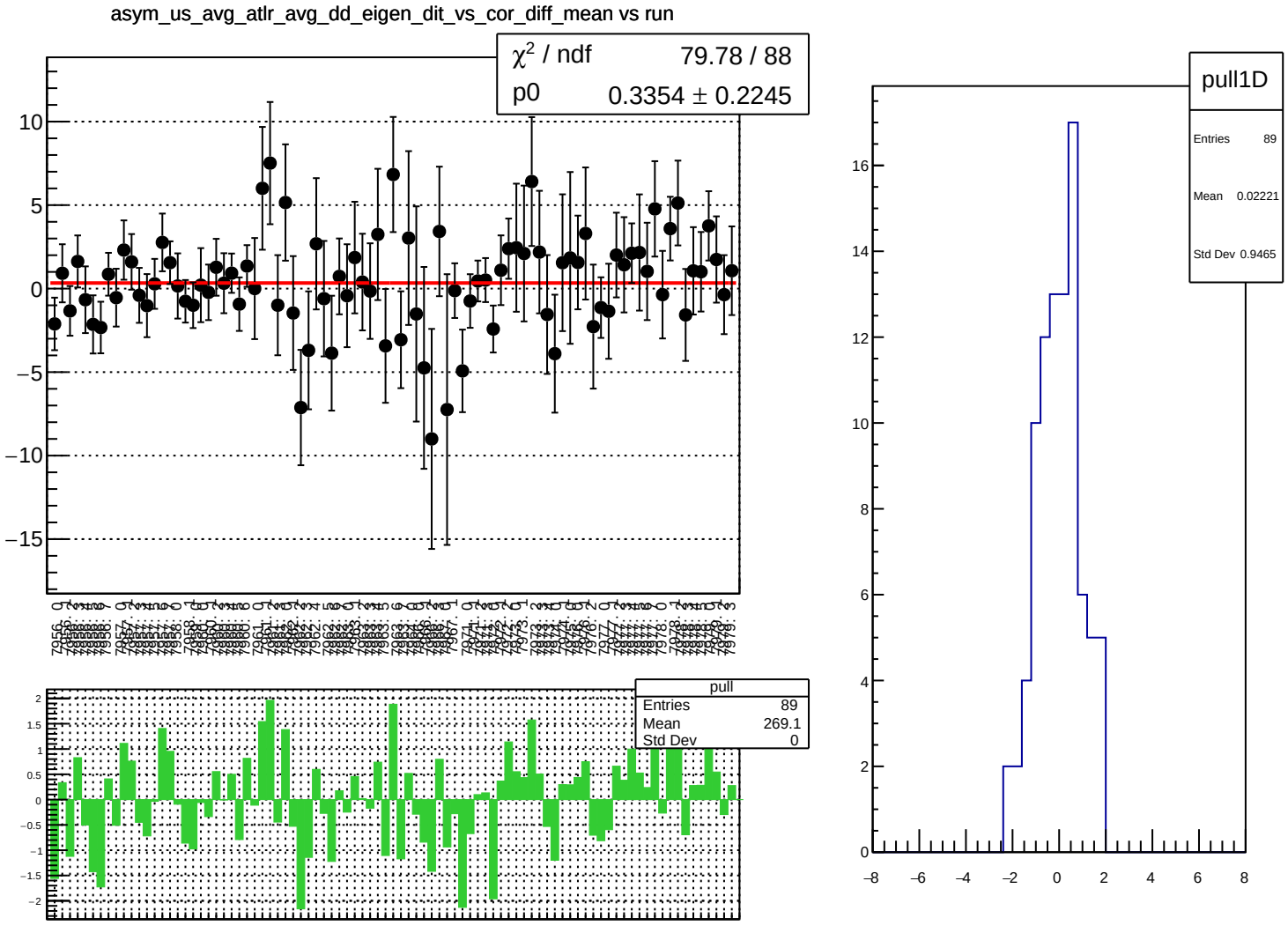

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.78 / 88
p0 0.3354 ± 0.2245
pull
Entries 89
Mean 269.1
Std Dev 0
pull1D
Entries 89
Mean 0.0222
Std Dev 0.9465

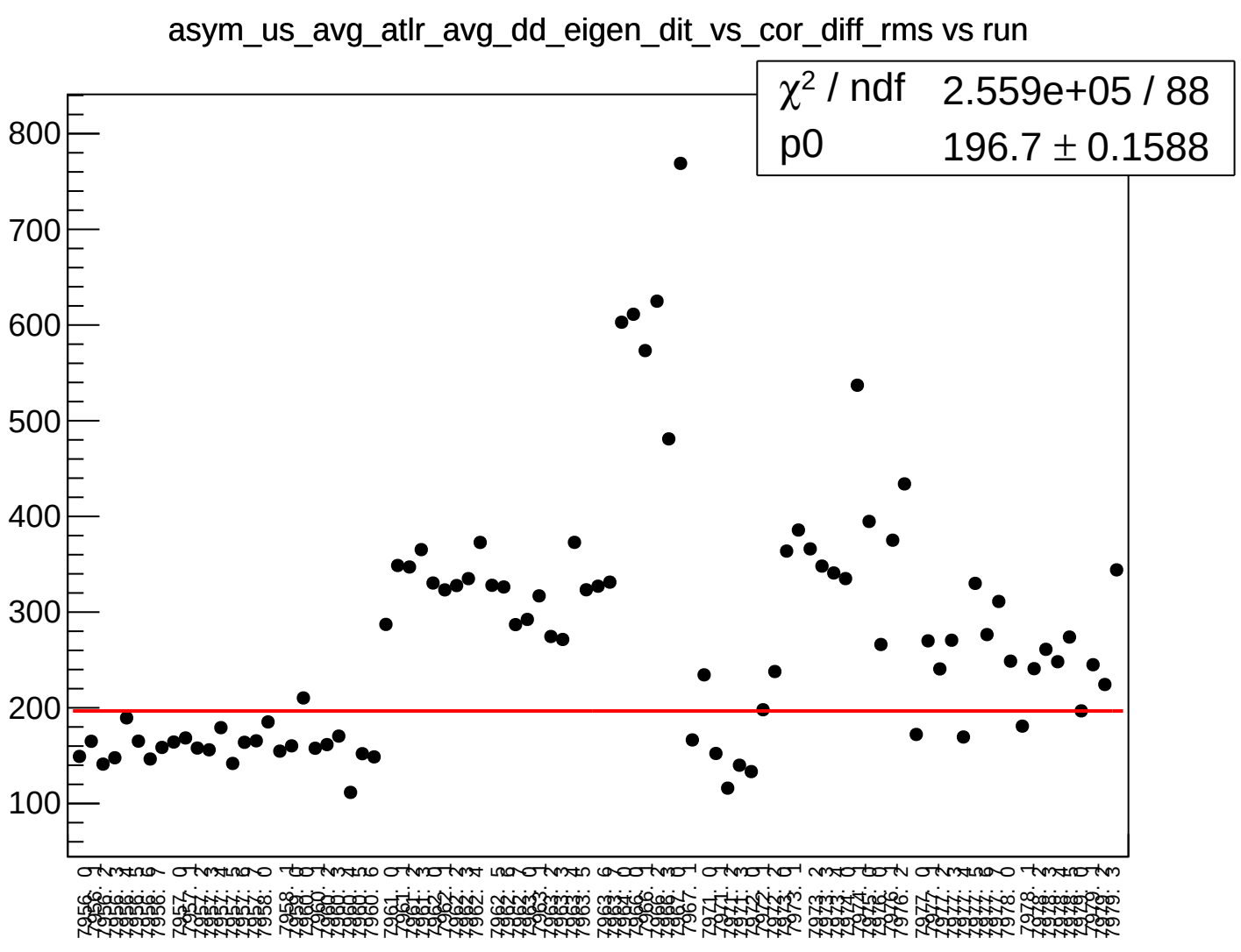

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.559e+05 / 88
p0 196.7 ± 0.1588
800
700
600
500
400
300
200
100

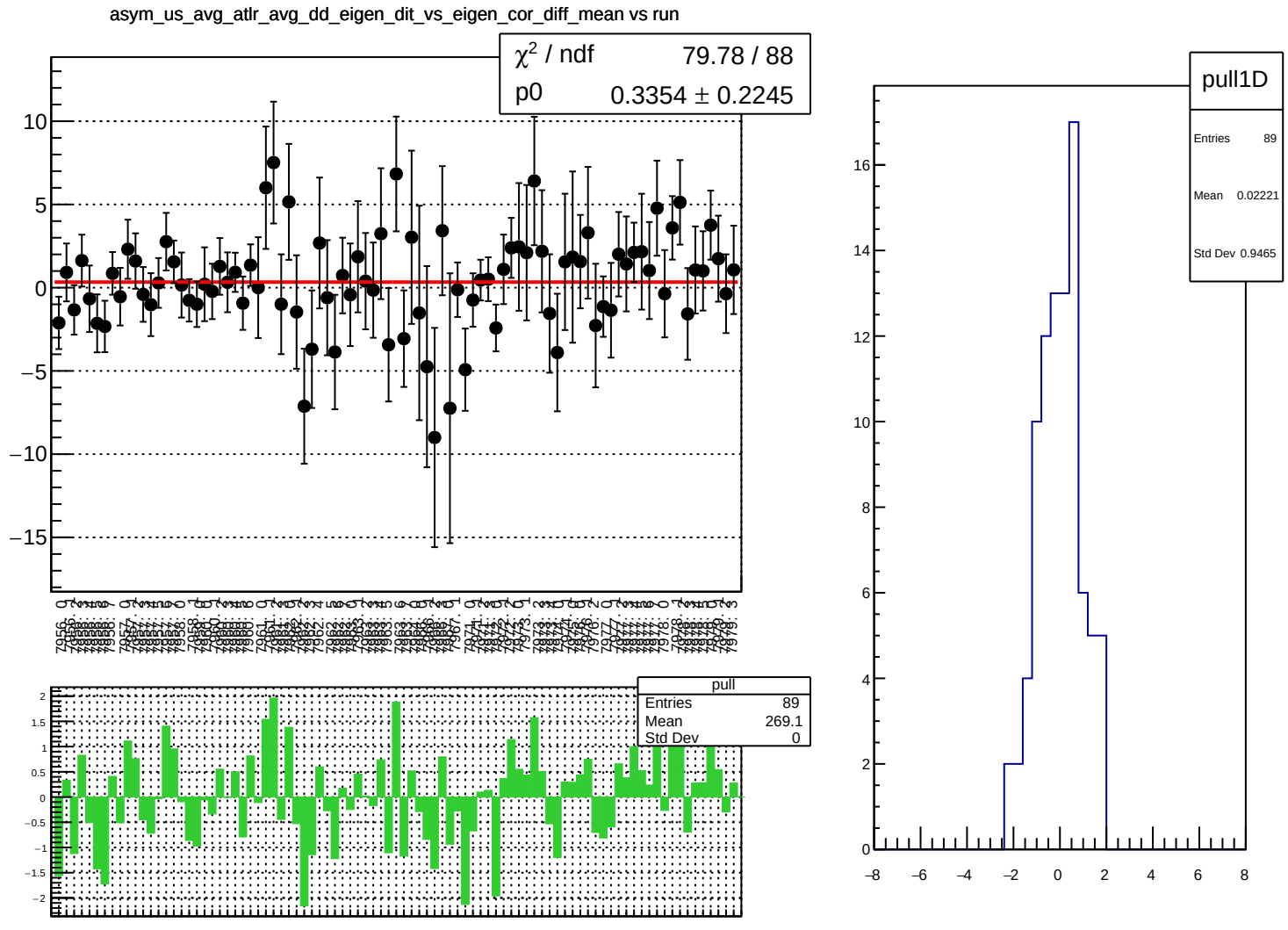

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 79.61 / 88
p0 3.22e−06 ± 1.24e−05
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean −2.032
Std Dev 0
2
1
0
−1
−2
−3

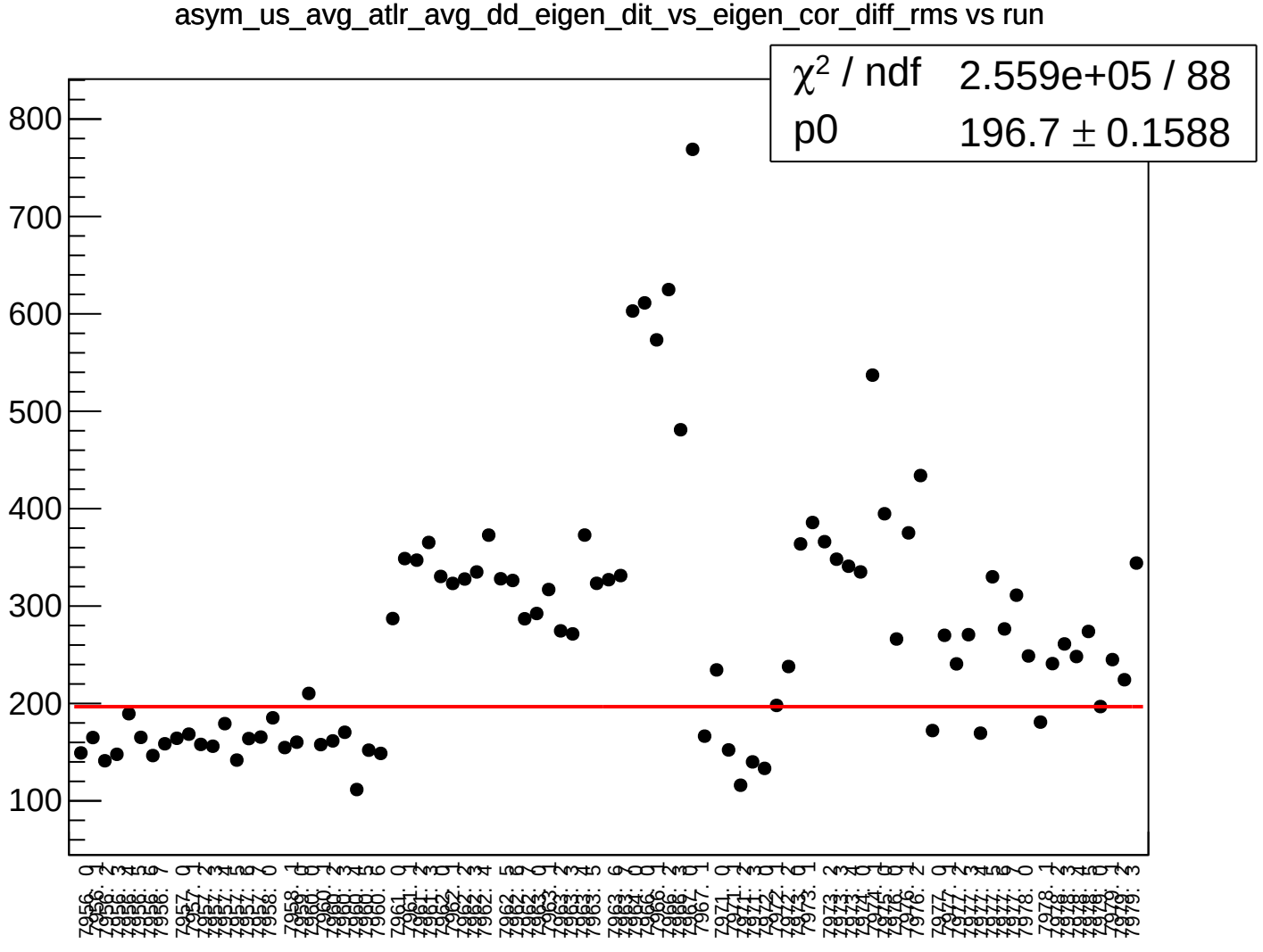

pull1D
Entries 89
Mean −0.01956
Std Dev 0.9456
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

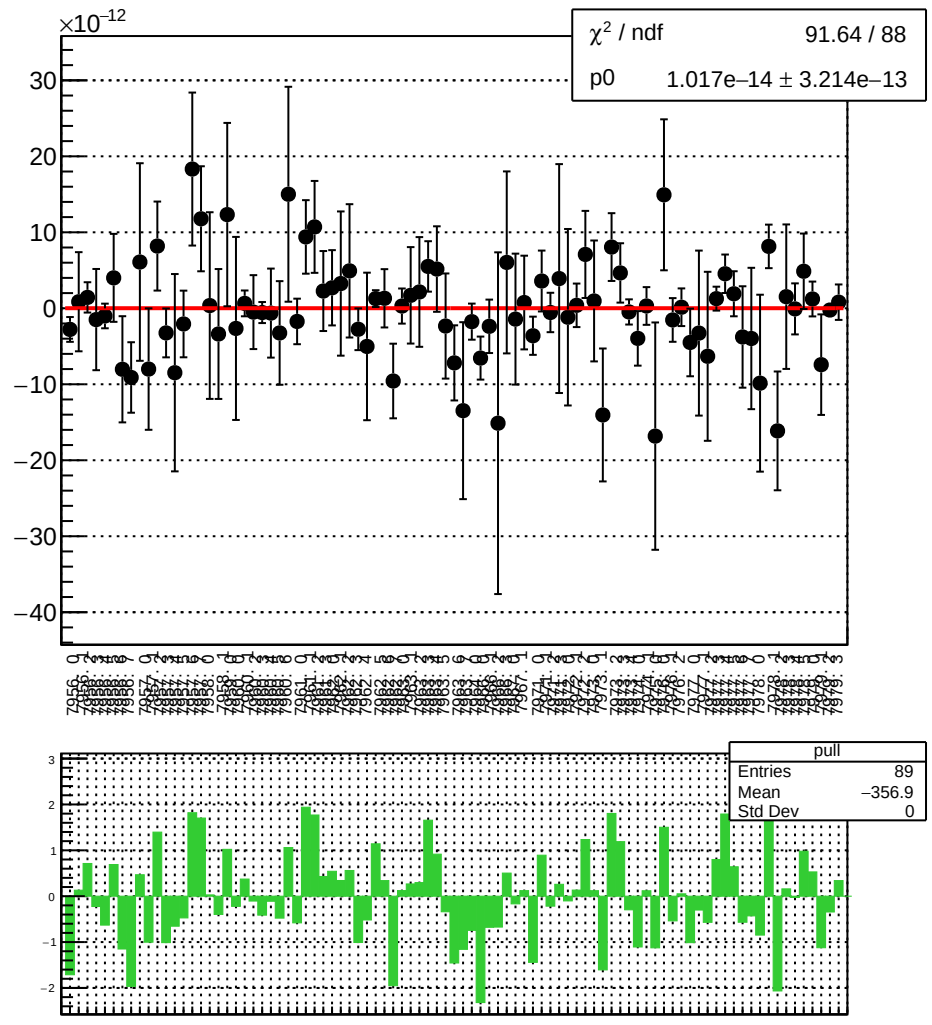

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.362e+04 / 88
p0 0.01149 ± 8.766e−06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

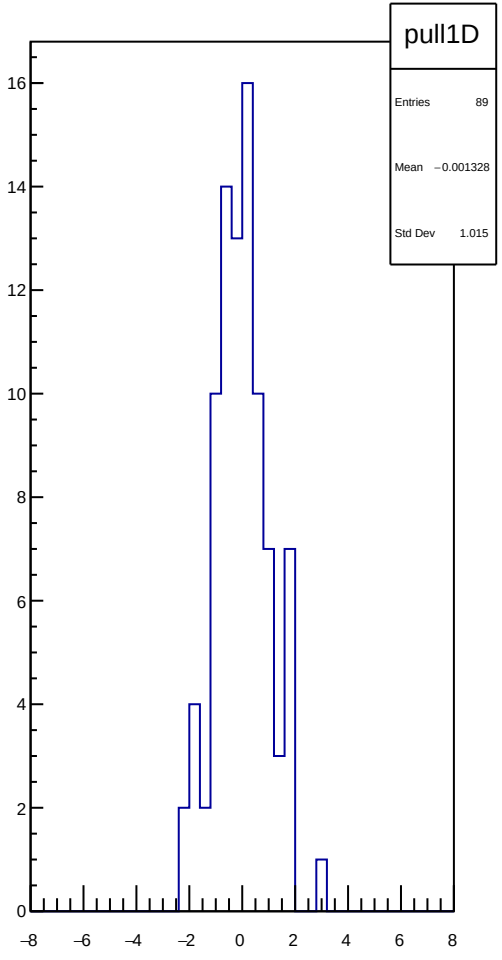

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.78 / 88
p0 0.3354 ± 0.2245
pull
Entries 89
Mean 269.1
Std Dev 0
pull1D
Entries 89
Mean 0.02221
Std Dev 0.9465

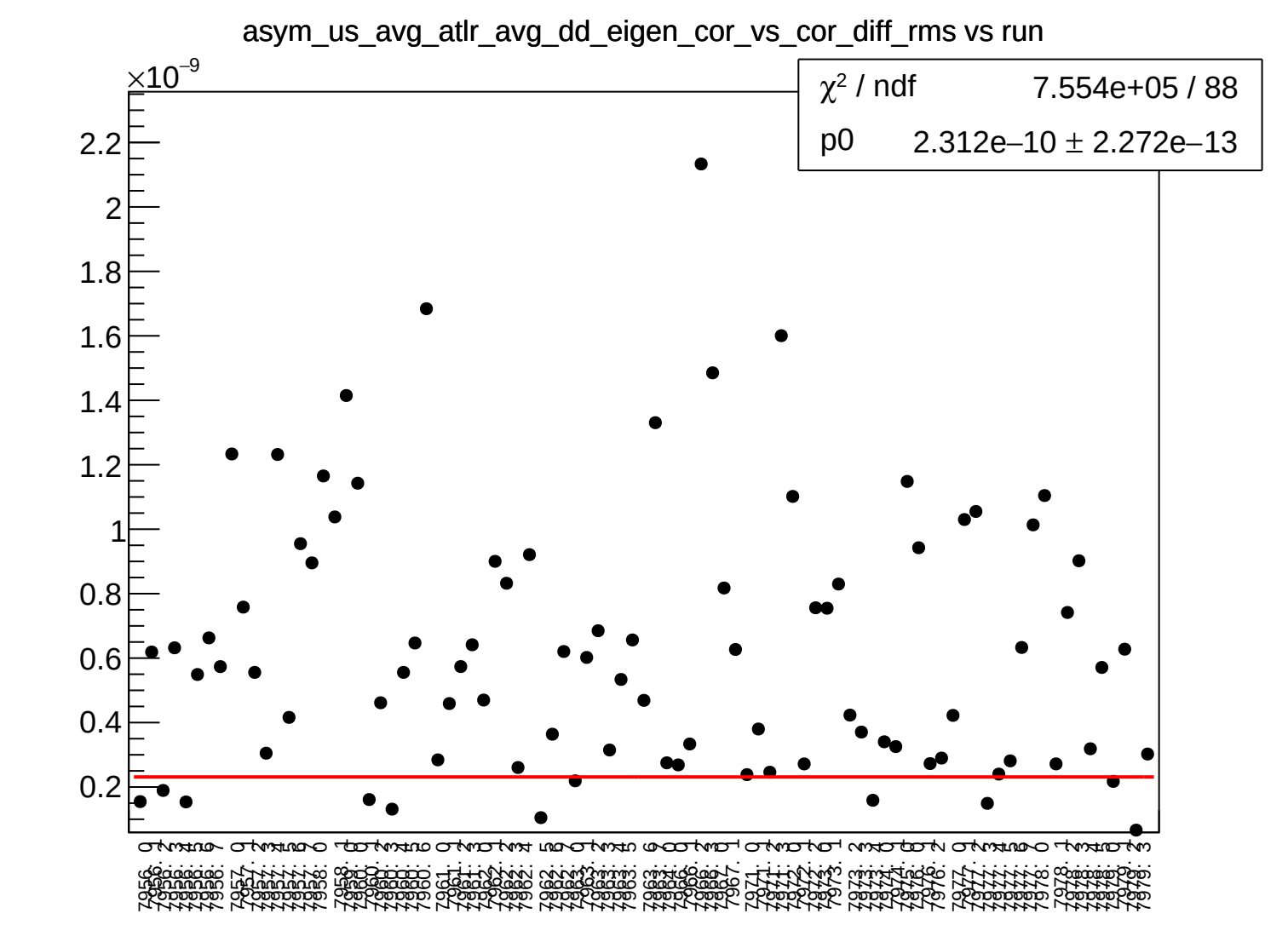

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.559e+05 / 88
p0 196.7 ± 0.1588
800
700
600
500
400
300
200
100

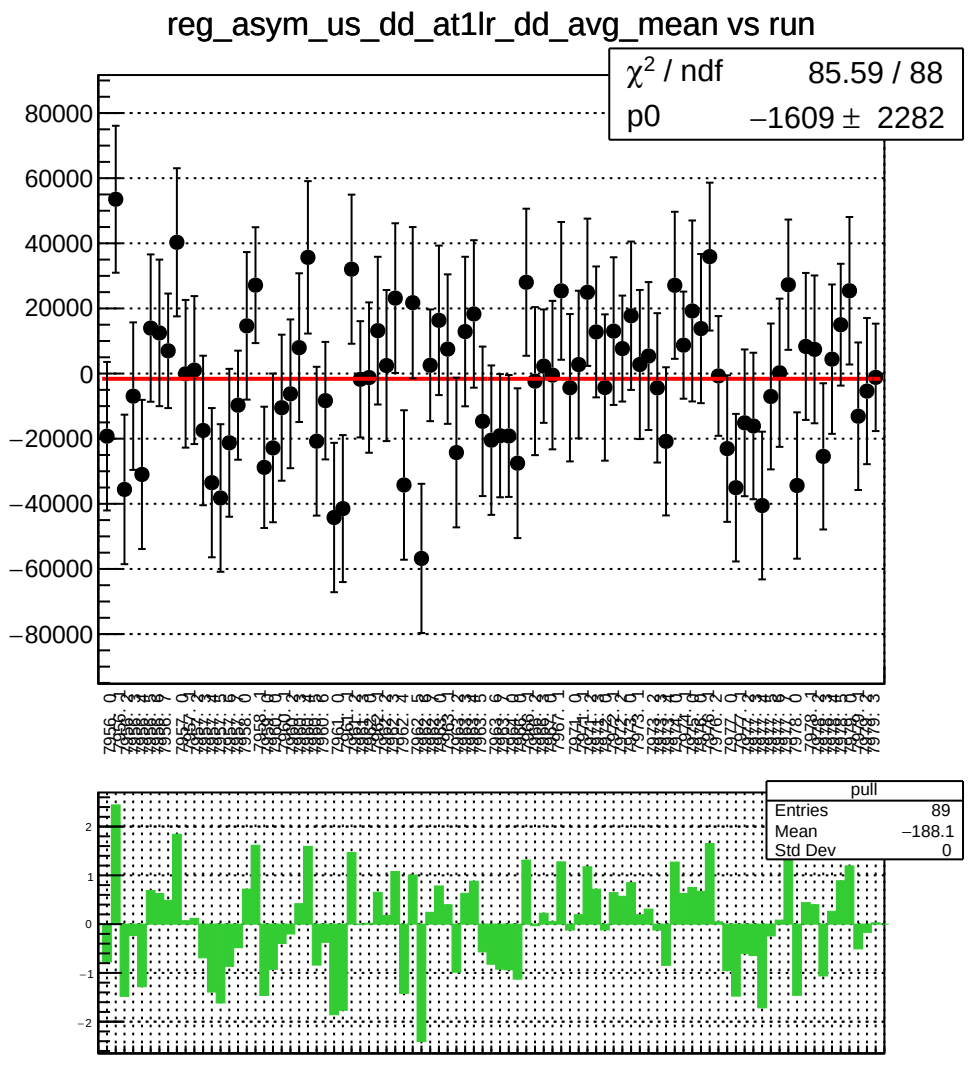

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.78 / 88
p0 0.3354 ± 0.2245
pull
Entries 89
Mean 269.1
Std Dev 0
pull1D
Entries 89
Mean 0.02221
Std Dev 0.9465

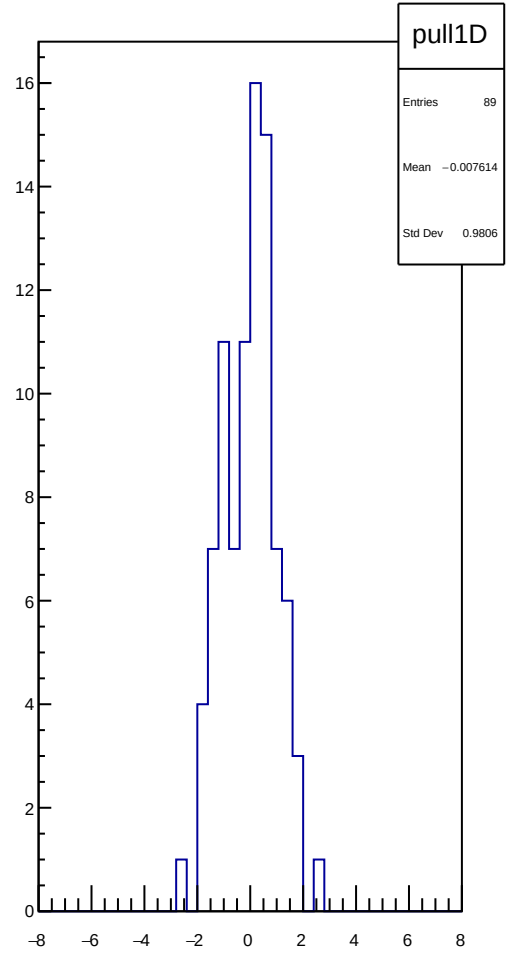

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.559e+05 / 88
p0 196.7 ± 0.1588
800
700
600
500
400
300
200
100

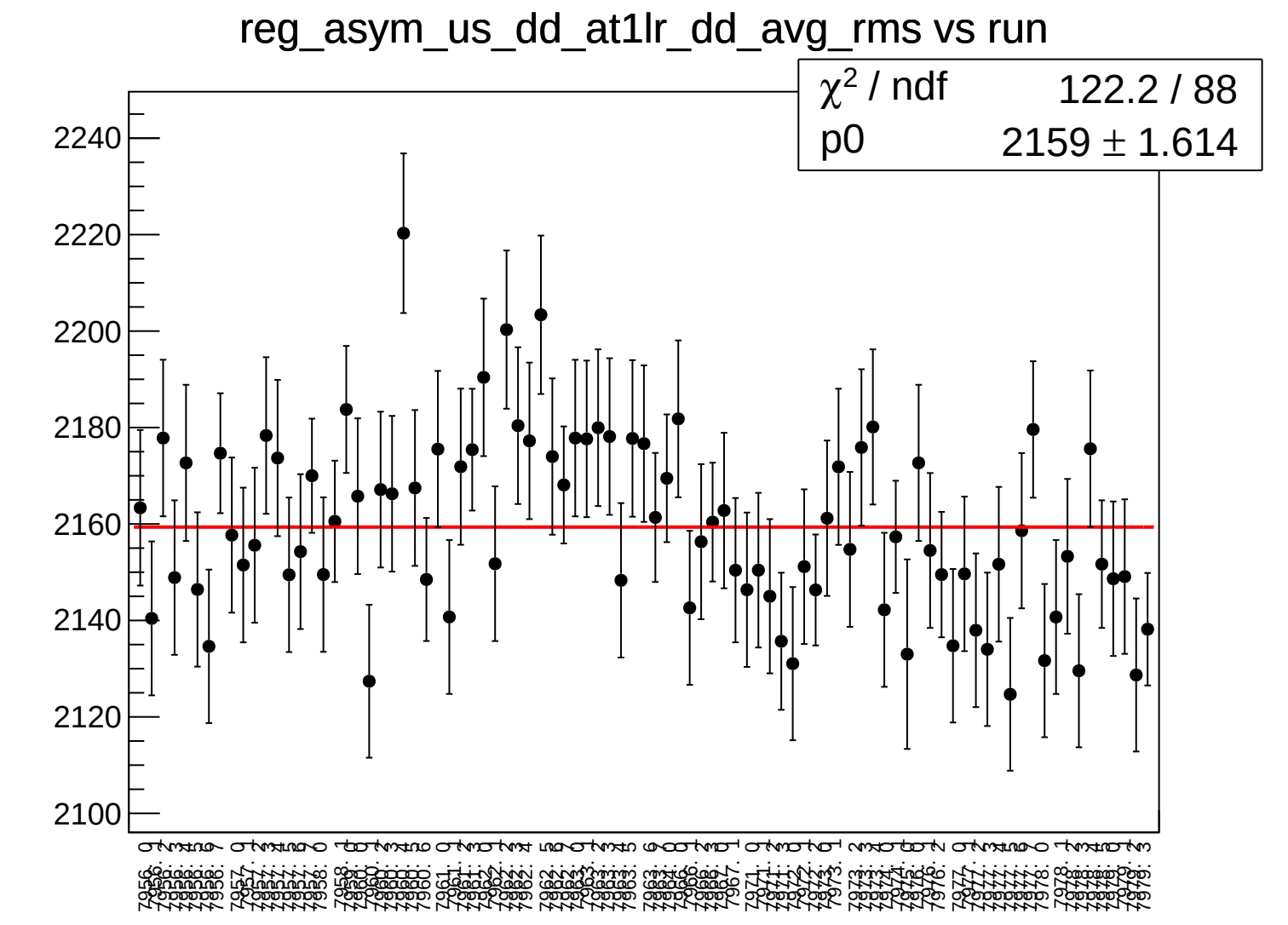

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.64 / 88
p0 1.017e−14 ± 3.214e−13
pull
Entries 89
Mean −356.9
Std Dev 0

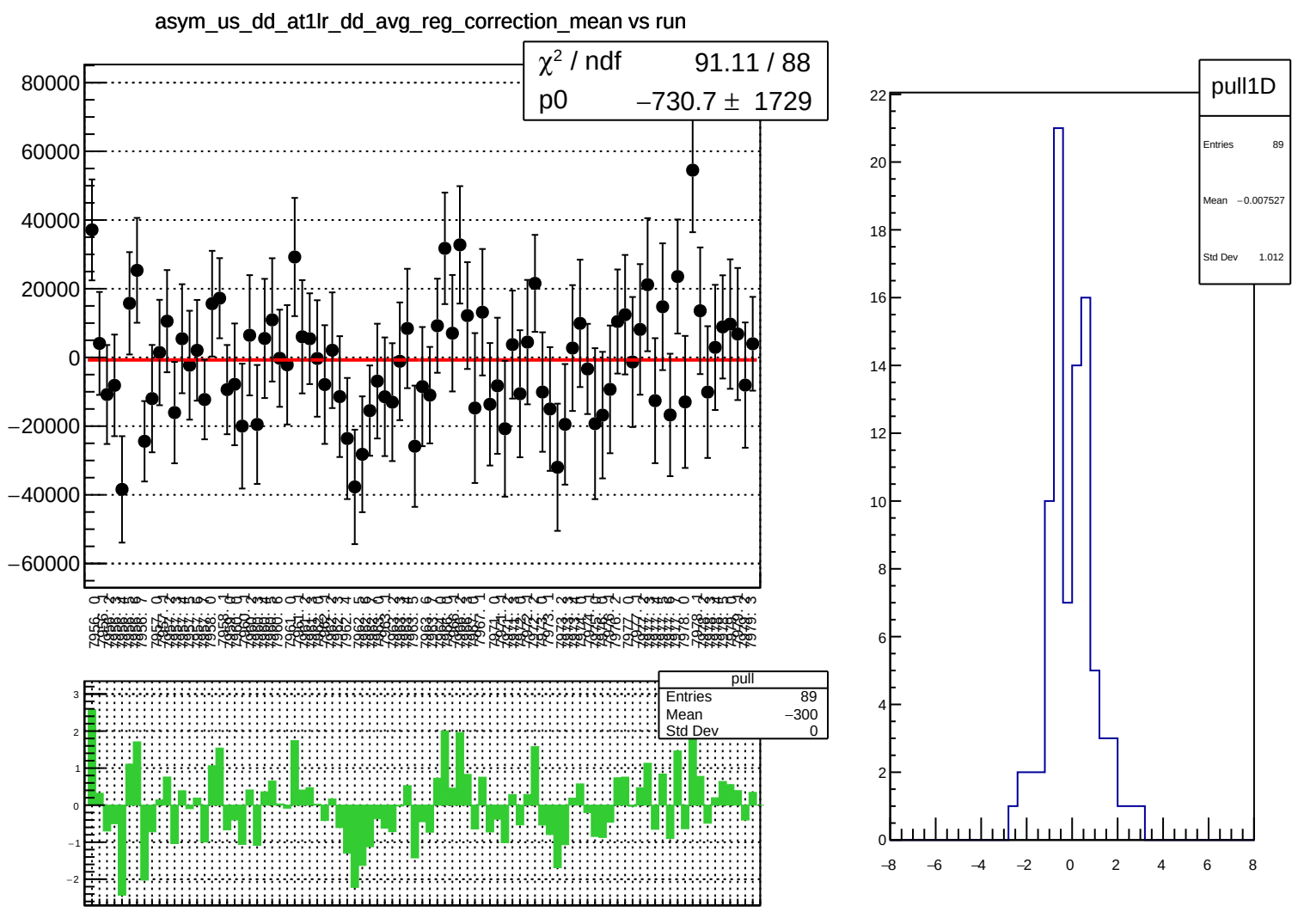

pull1D
Entries 89
Mean −0.001328
Std Dev 1.015

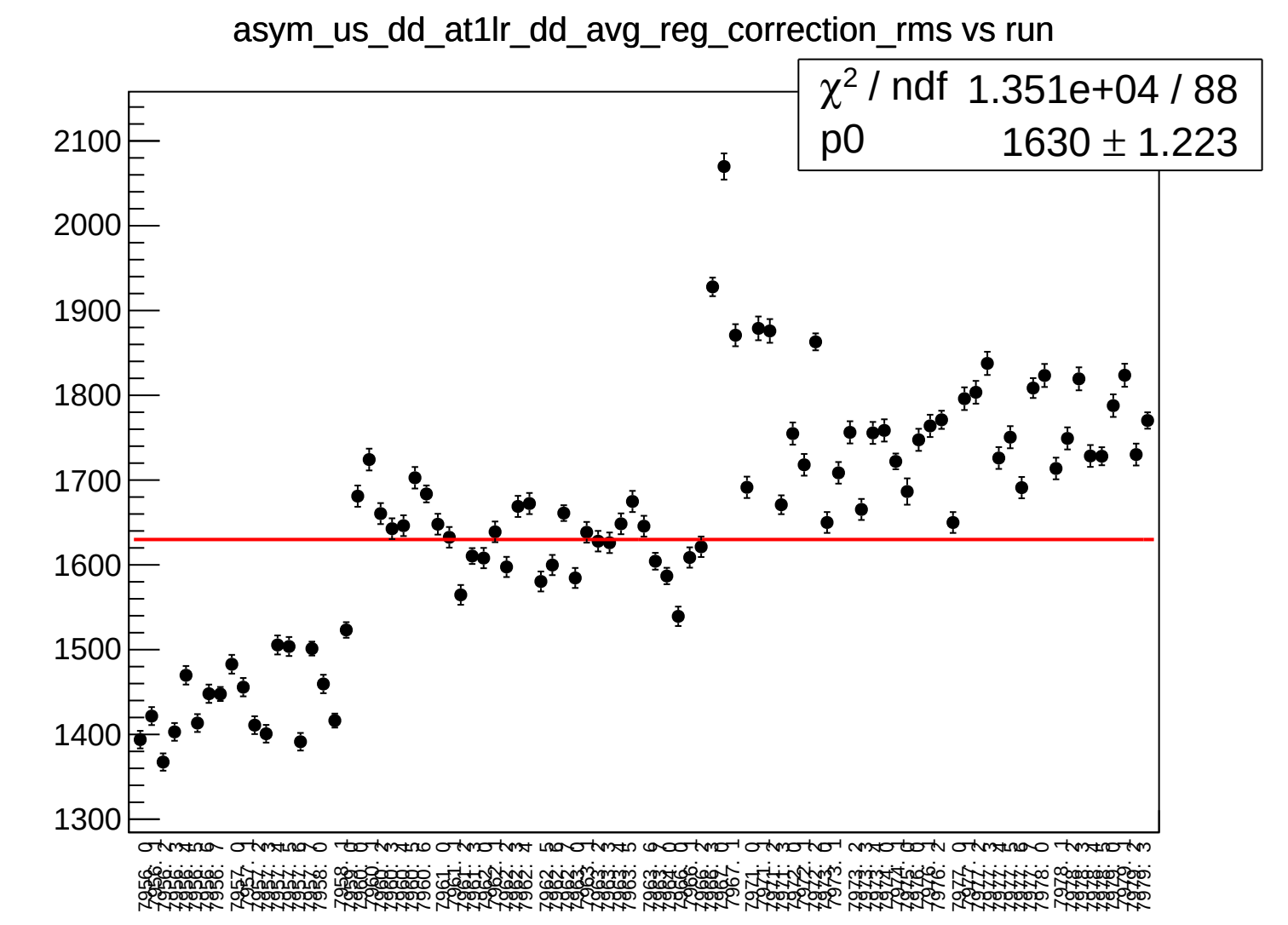

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.554e+05 / 88
p0 2.312e−10 ± 2.272e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

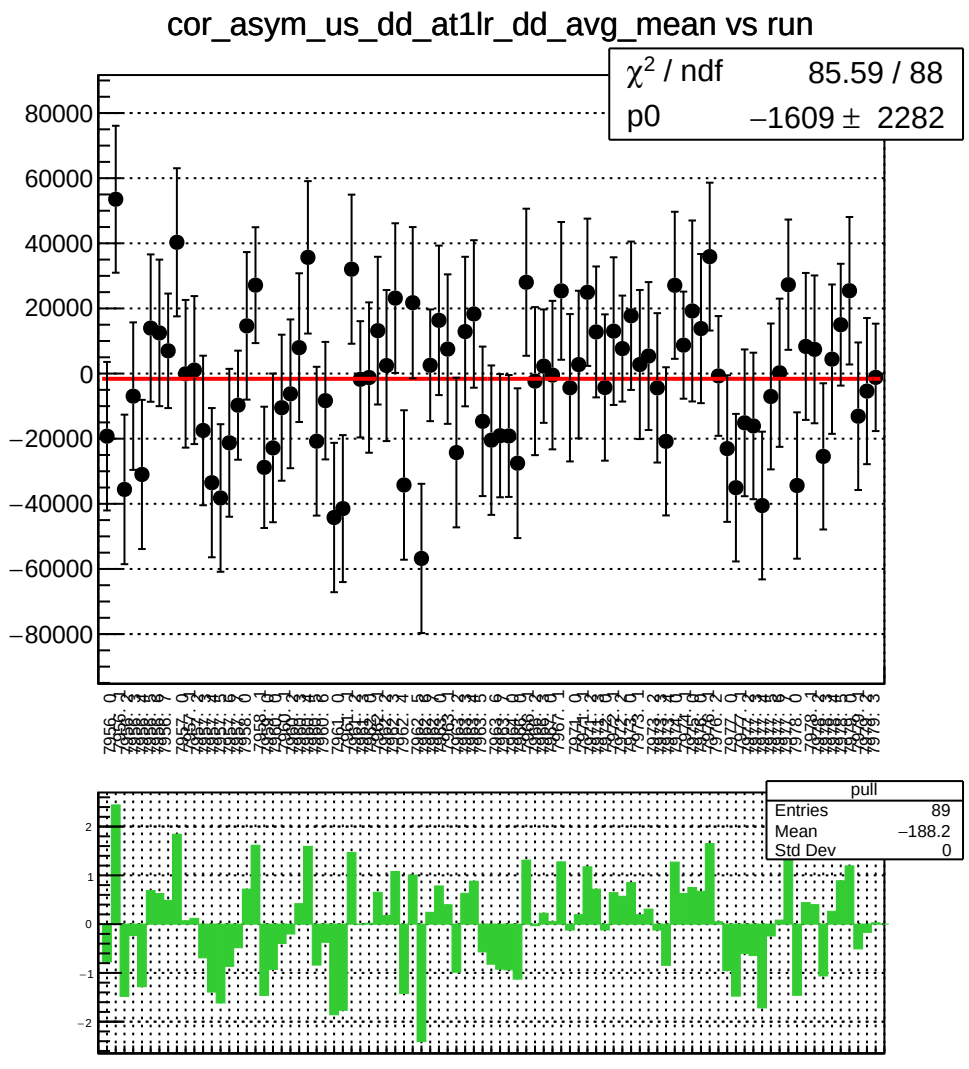

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 85.59 / 88
p0 −1609 ± 2282
pull
Entries 89
Mean −188.1
Std Dev 0

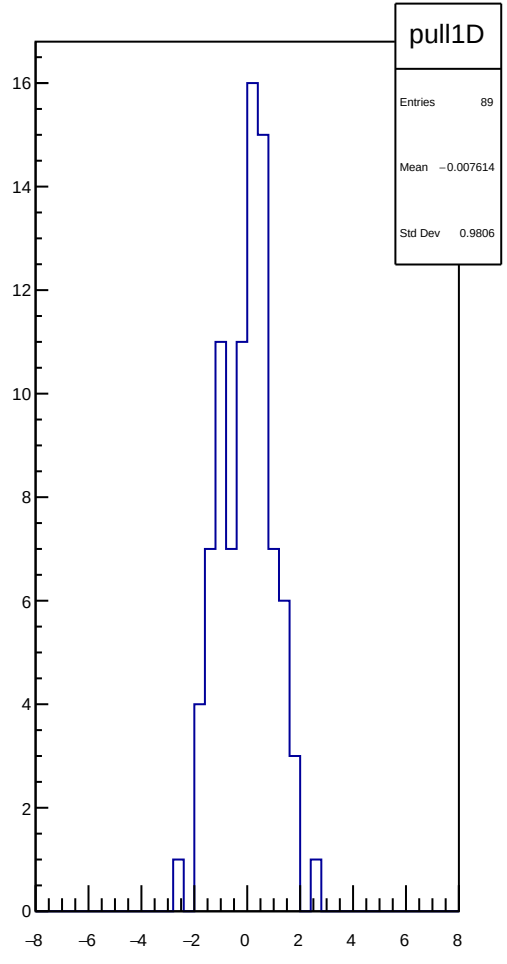

pull1D
Entries 89
Mean −0.007614
Std Dev 0.9806

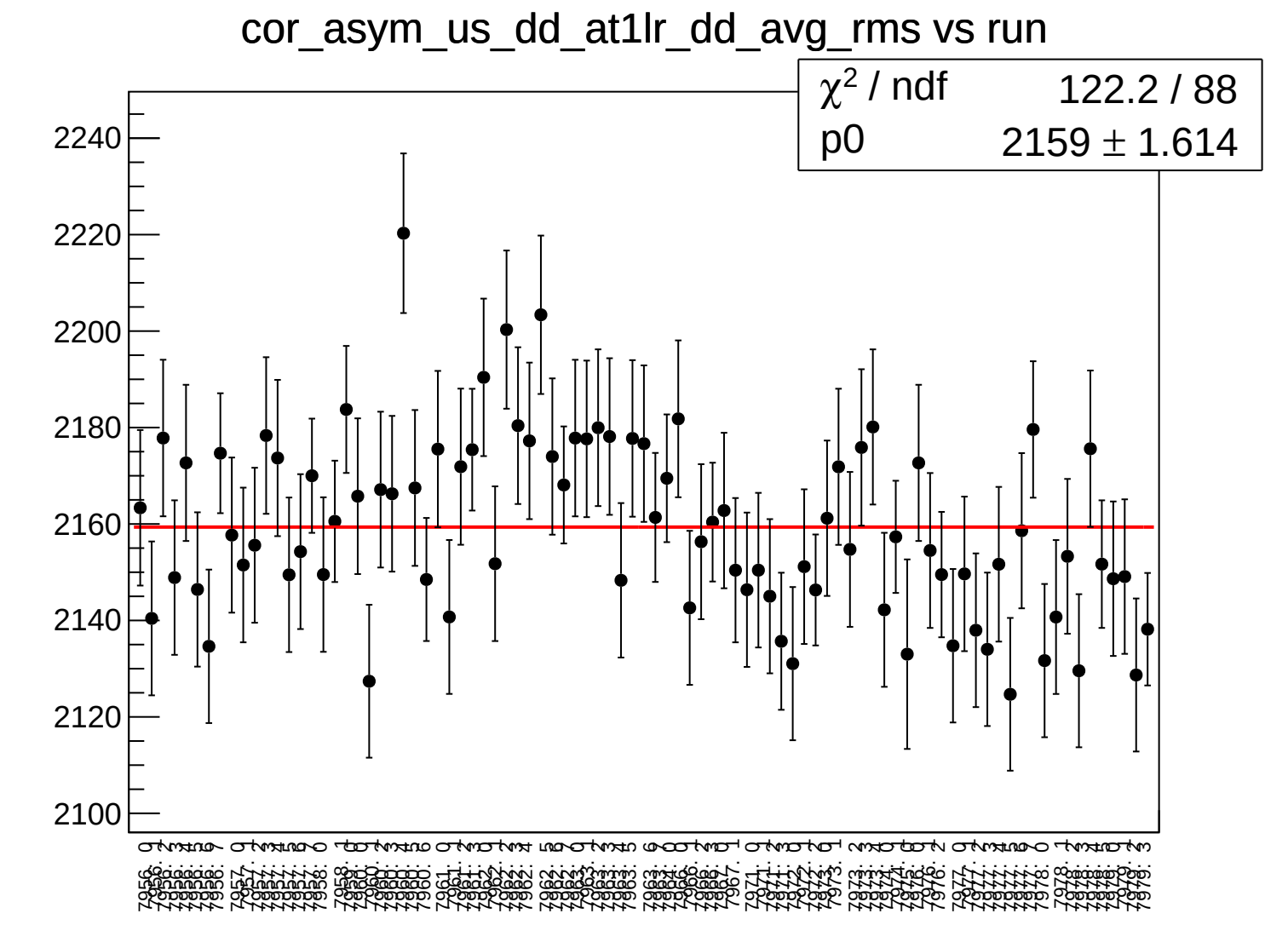

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 122.2 / 88
p0 2159 ± 1.614
2240
2220
2200
2180
2160
2140
2120
2100

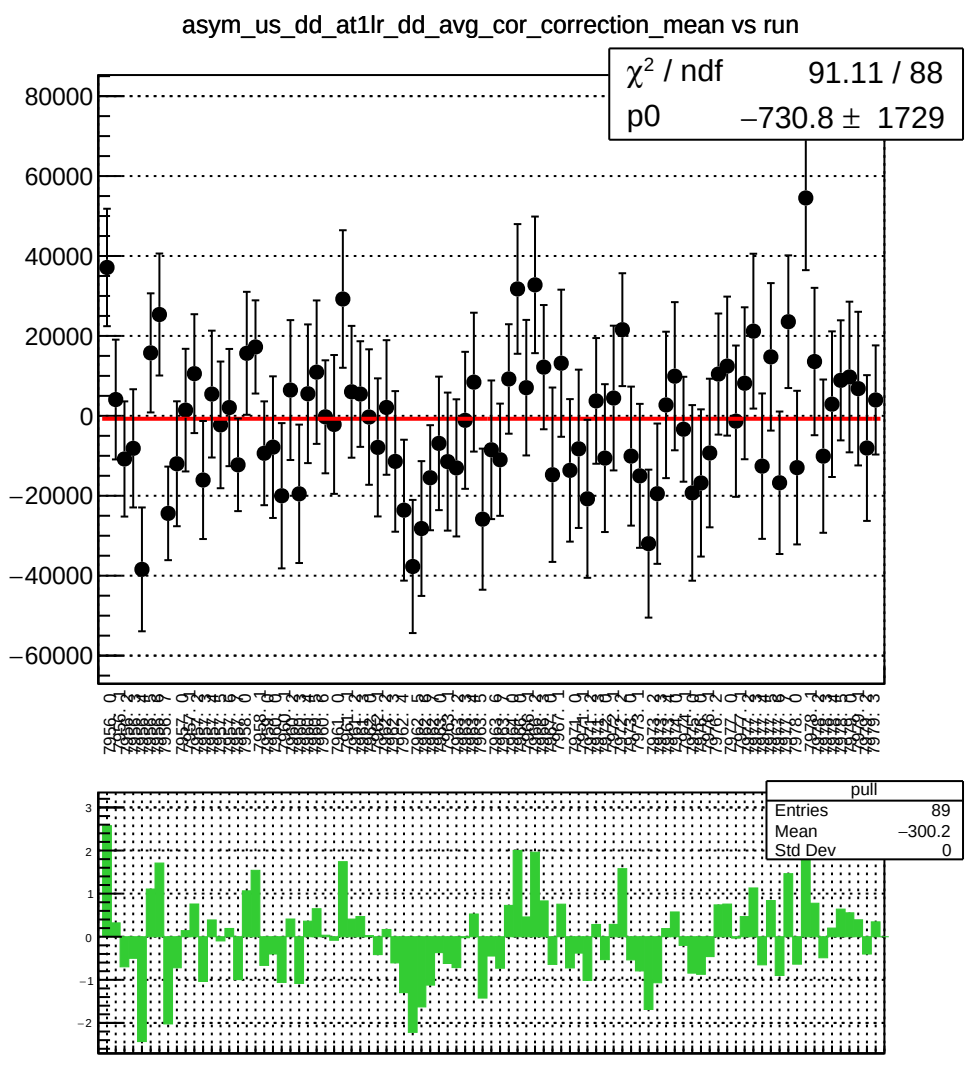

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 91.11 / 88
p0 −730.7 ± 1729
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −300
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.007527
Std Dev 1.012
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

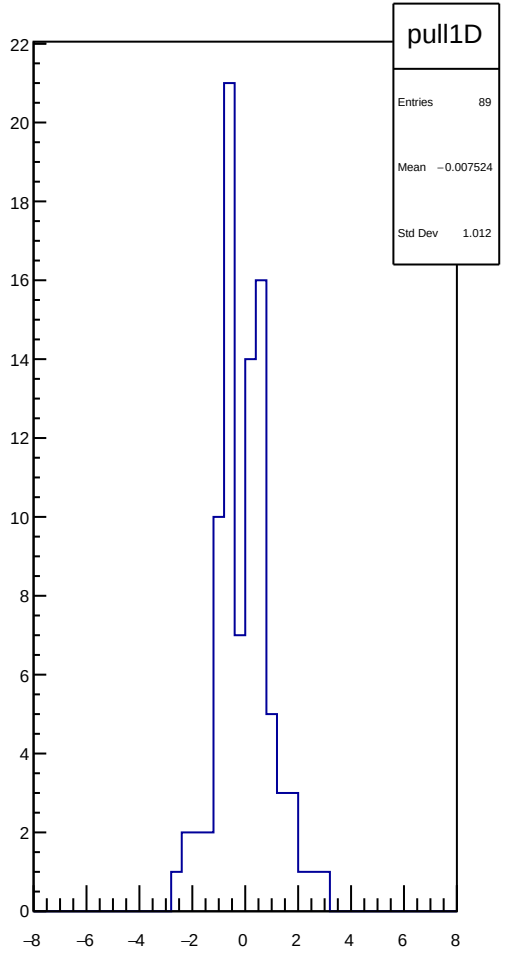

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.351e+04 / 88
p0 1630 ± 1.223
2100
2000
1900
1800
1700
1600
1500
1400
1300

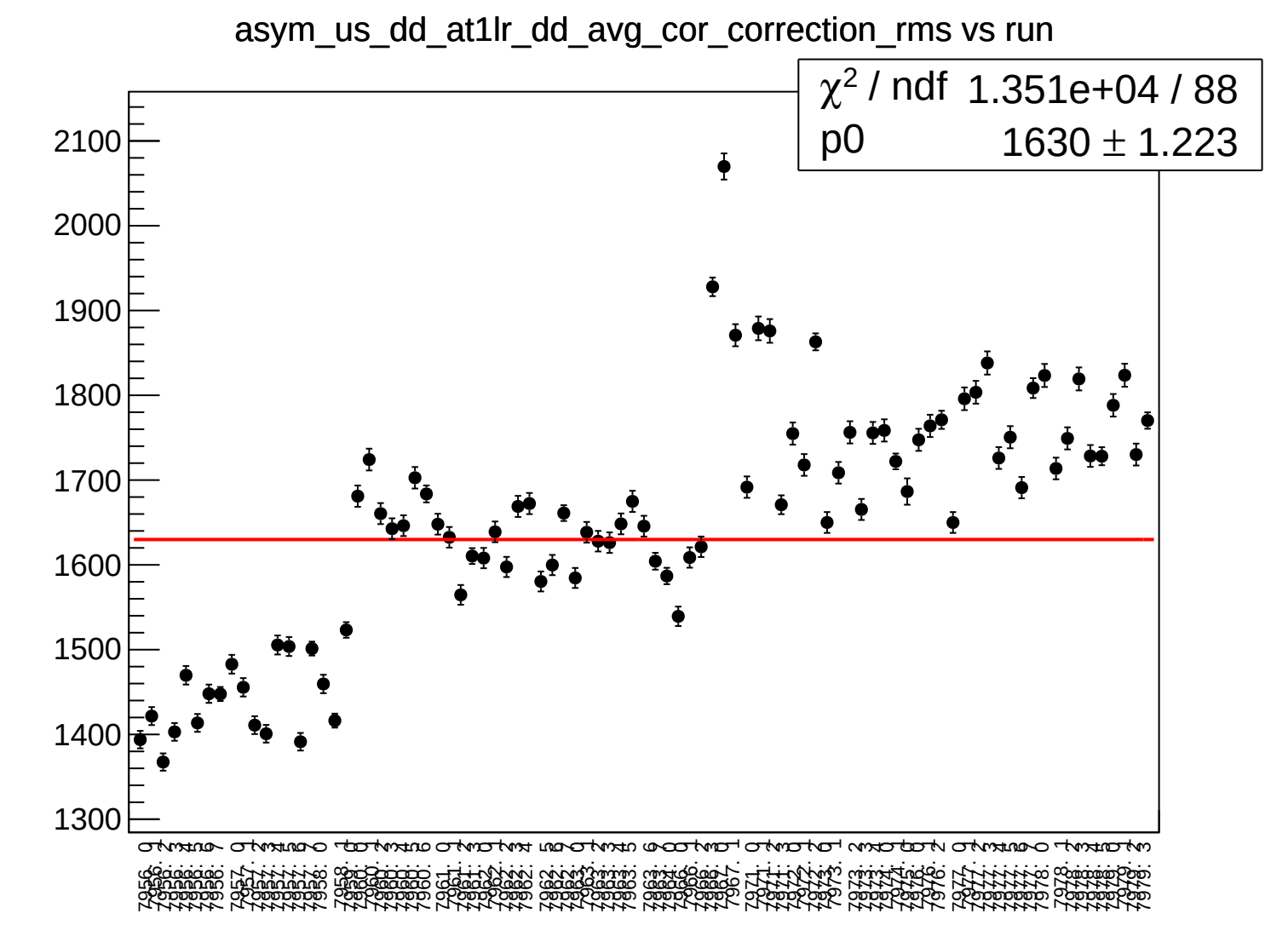

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 85.59 / 88
p0 −1609 ± 2282
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −188.2
Std Dev 0
2
1
0
−1
−2

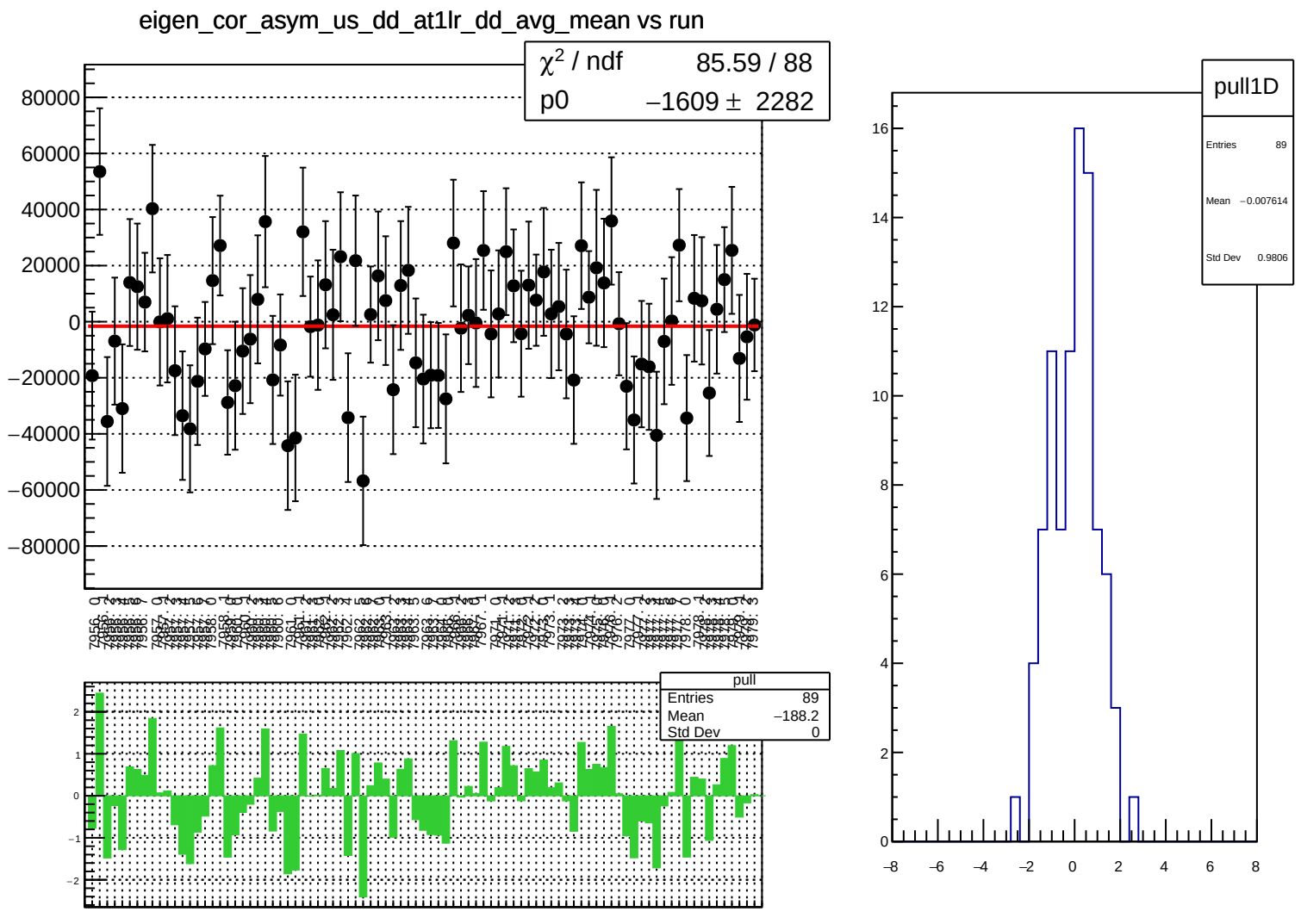

pull1D
Entries 89
Mean −0.007614
Std Dev 0.9806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

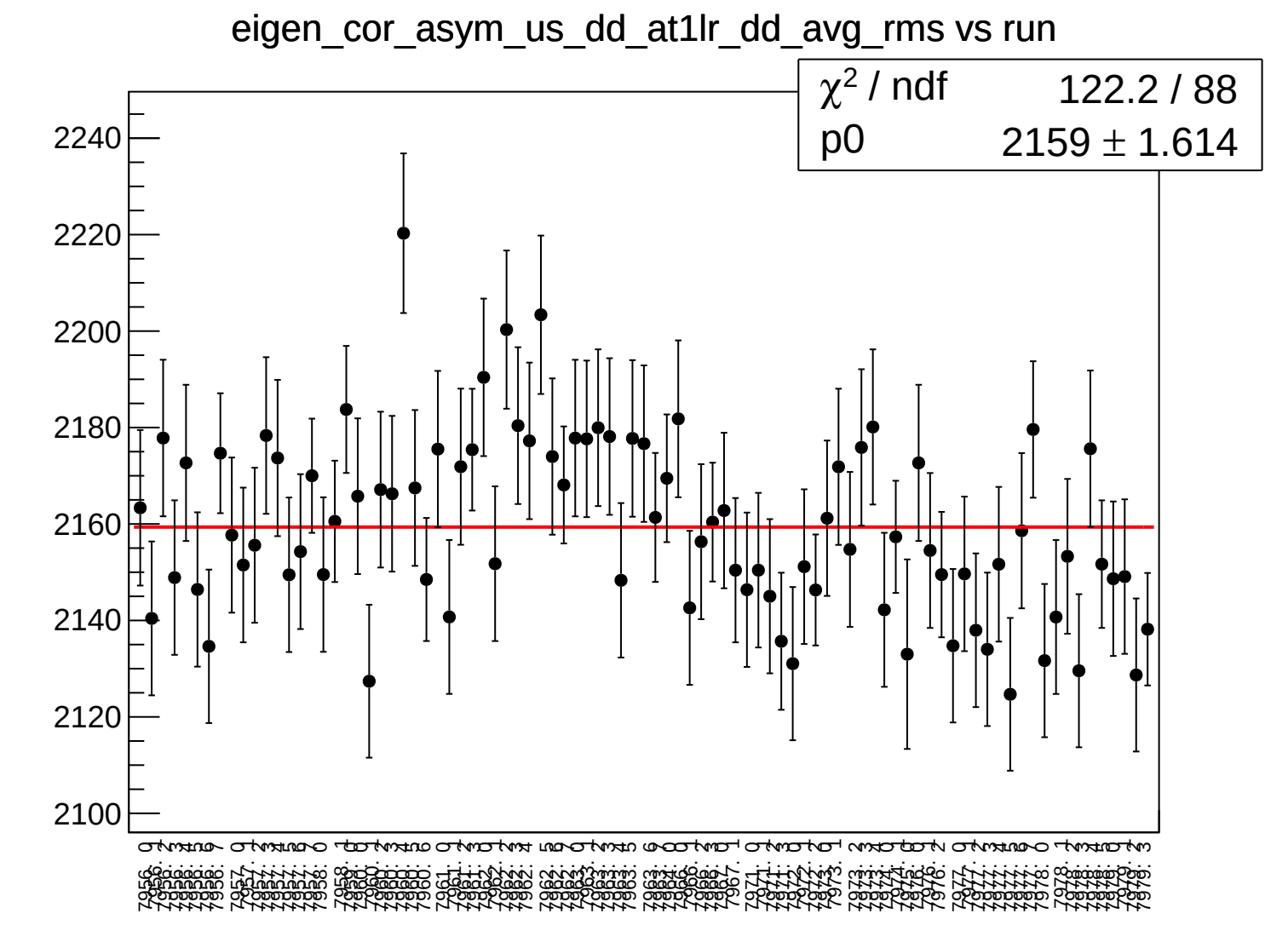

cor_asym_us_dd_at1lr_dd_avg_rms vs run
$\chi^2$ / ndf 122.2 / 88
p0 2159 ± 1.614
2240
2220
2200
2180
2160
2140
2120
2100

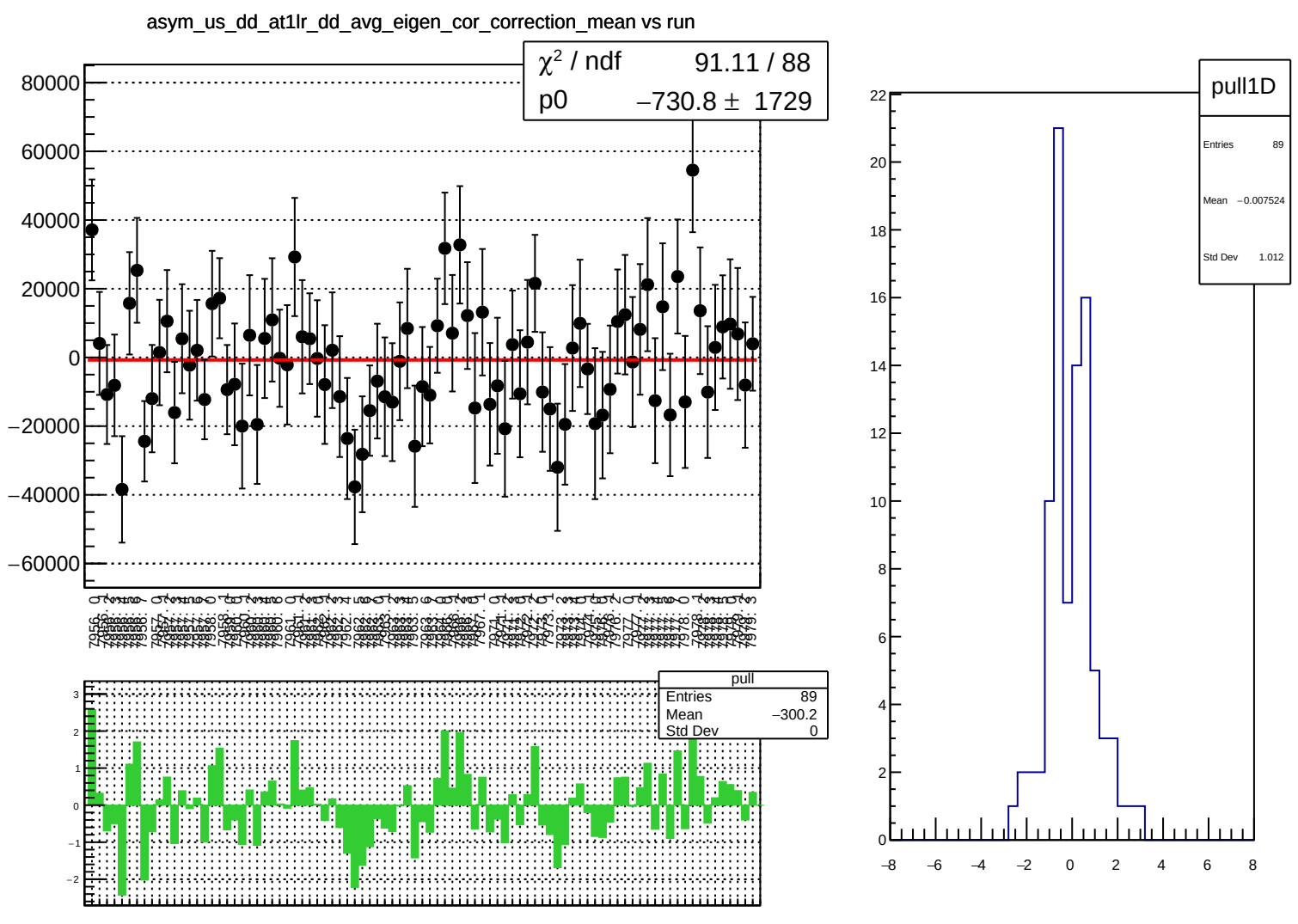

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 91.11 / 88
p0 −730.8 ± 1729
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −300.2
Std Dev 0
3
2
1
0
−1
−2

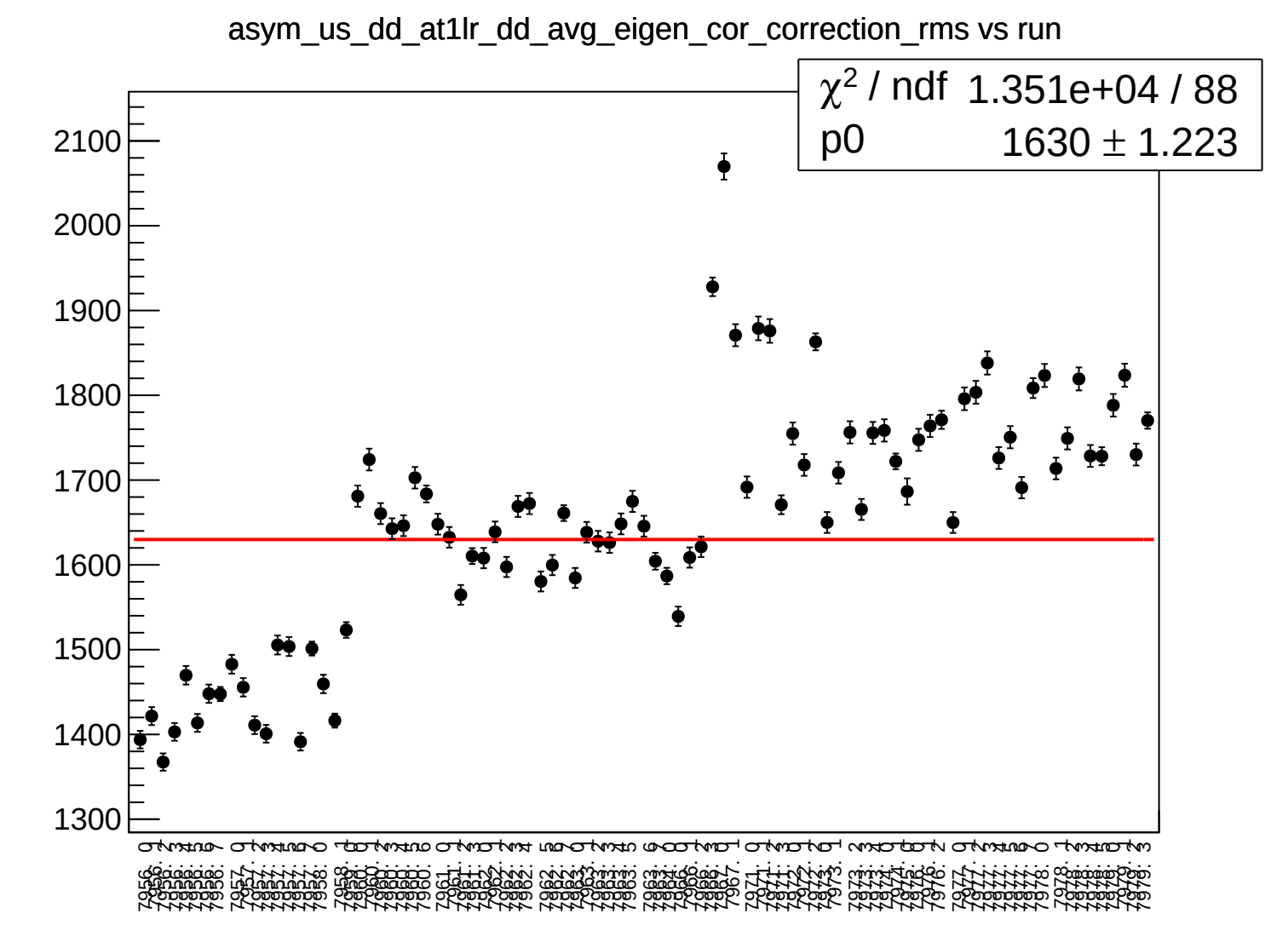

pull1D
Entries 89
Mean −0.007524
Std Dev 1.012
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

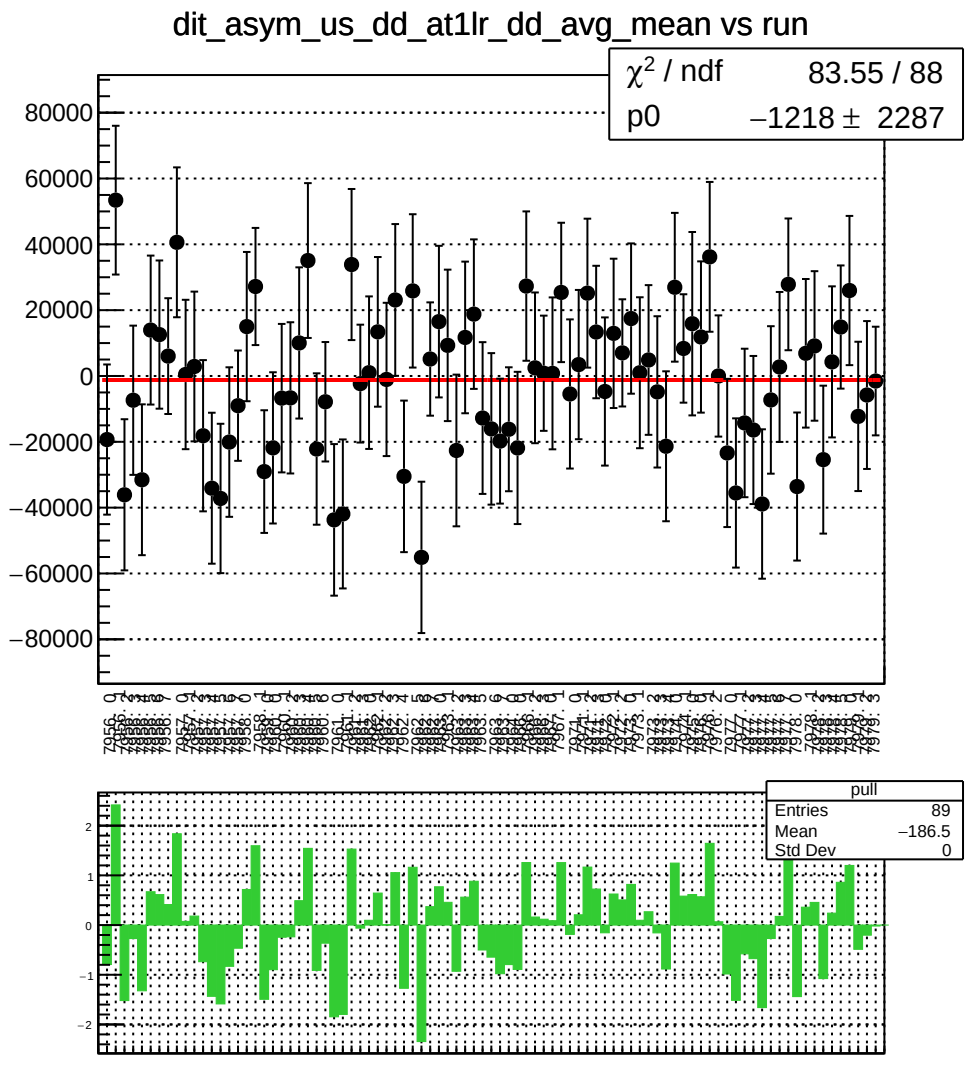

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.351e+04 / 88
p0 1630 ± 1.223
2100
2000
1900
1800
1700
1600
1500
1400
1300

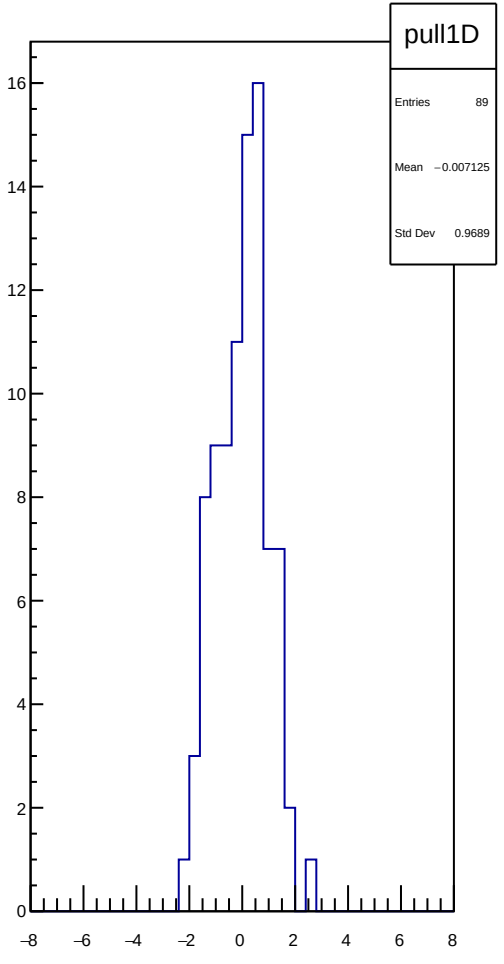

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 85.59 / 88
p0 −1609 ± 2282
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −188.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.007614
Std Dev 0.9806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

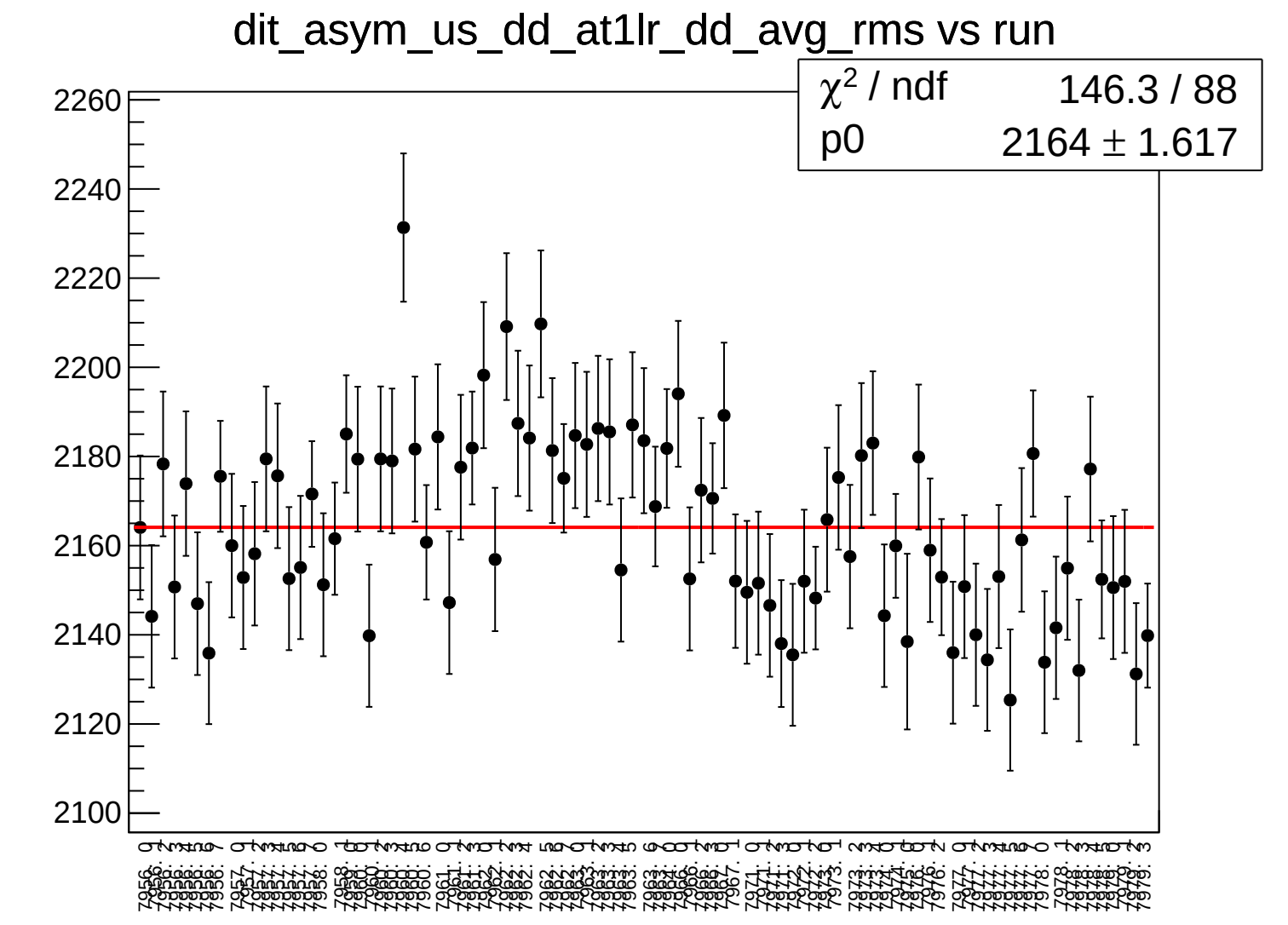

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
$\chi^2$ / ndf 122.2 / 88
p0 2159 ± 1.614
2240
2220
2200
2180
2160
2140
2120
2100

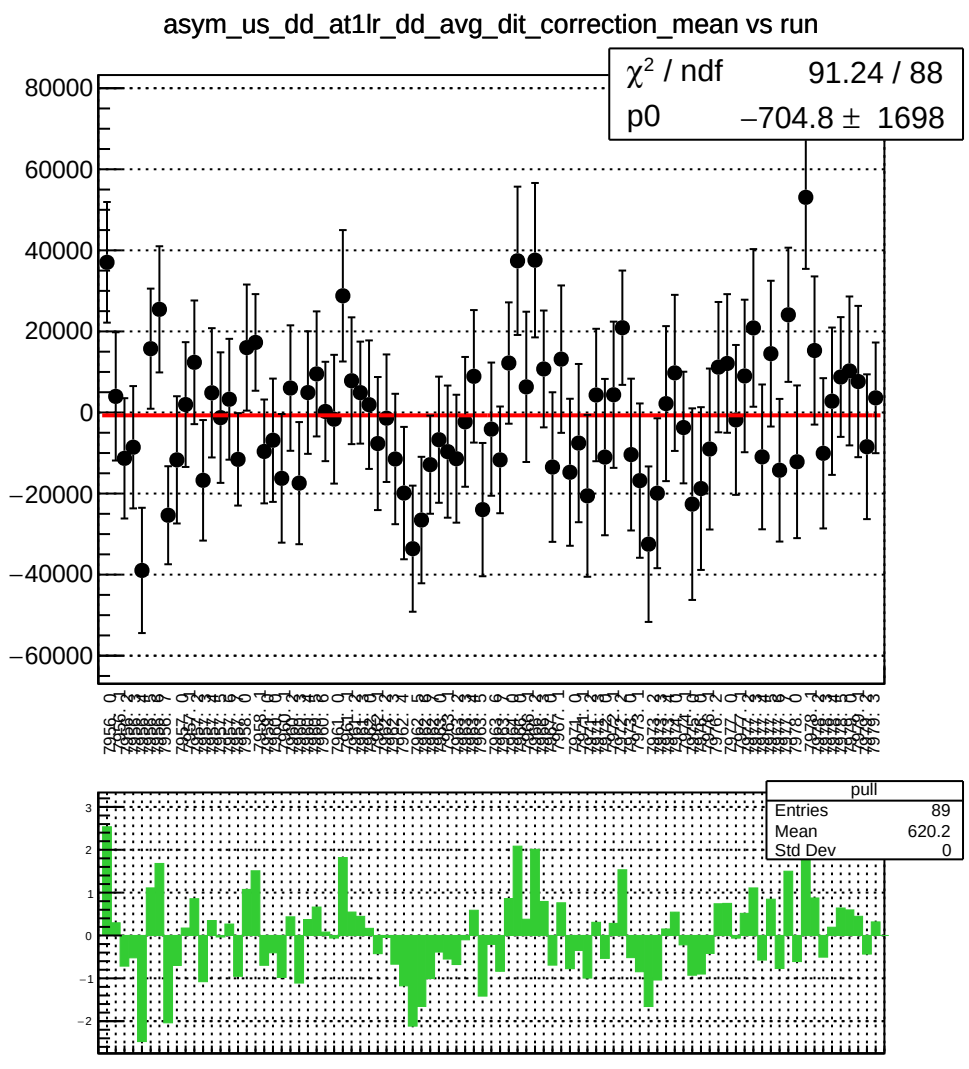

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.11 / 88
p0 −730.8 ± 1729
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −300.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.007524
Std Dev 1.012
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

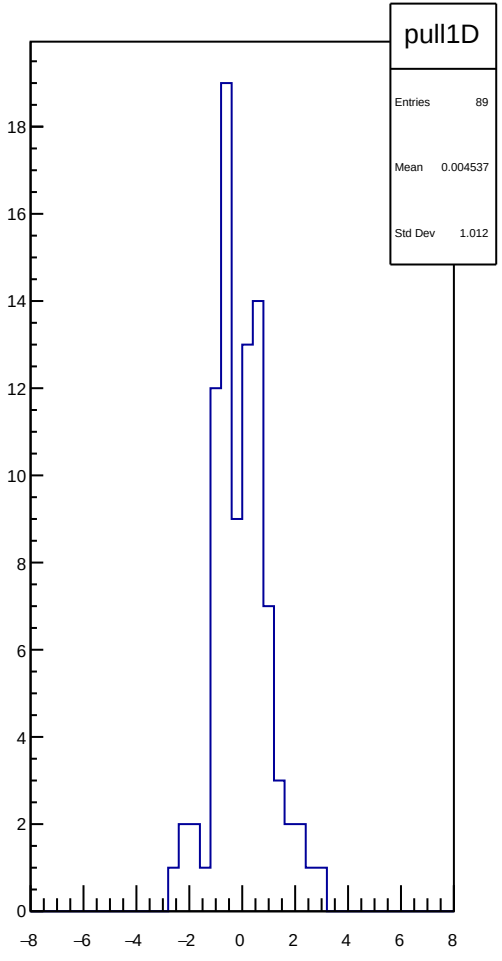

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.351e+04 / 88
p0 1630 ± 1.223
2100
2000
1900
1800
1700
1600
1500
1400
1300

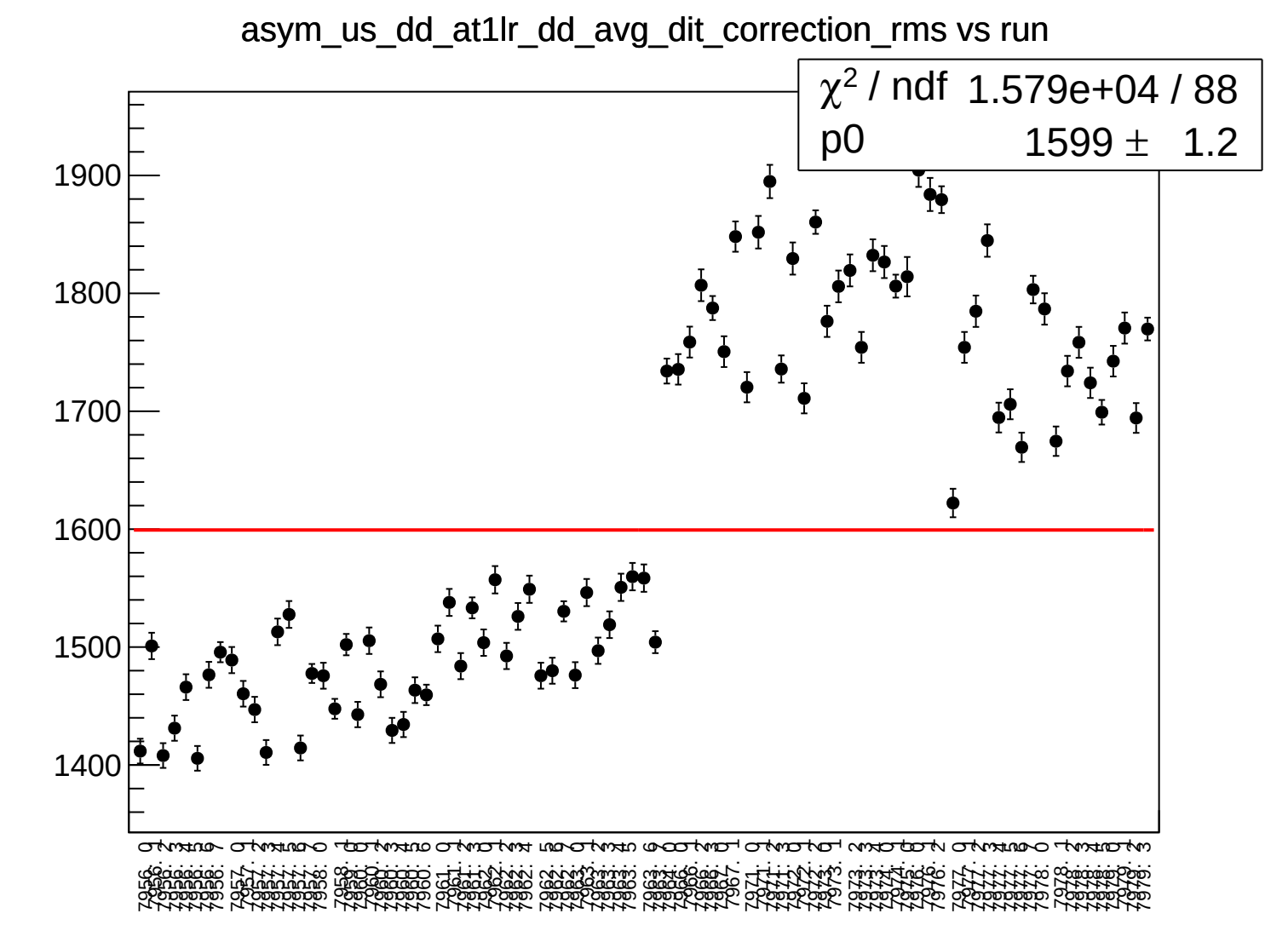

dit_asym_us_dd_at1lr_dd_avg_mean vs run
$\chi^2$ / ndf 83.55 / 88
p0 −1218 ± 2287
pull
Entries 89
Mean −186.5
Std Dev 0

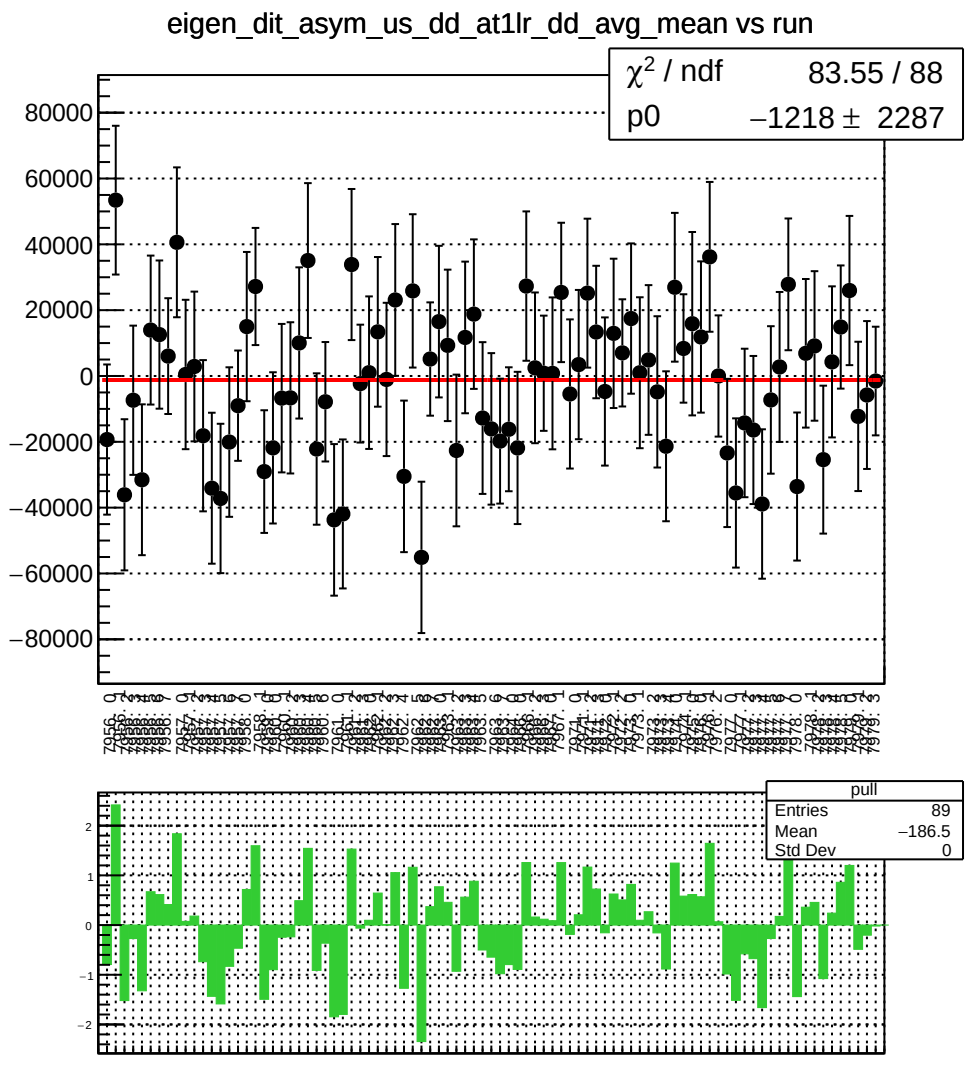

pull1D
Entries 89
Mean −0.007125
Std Dev 0.9689

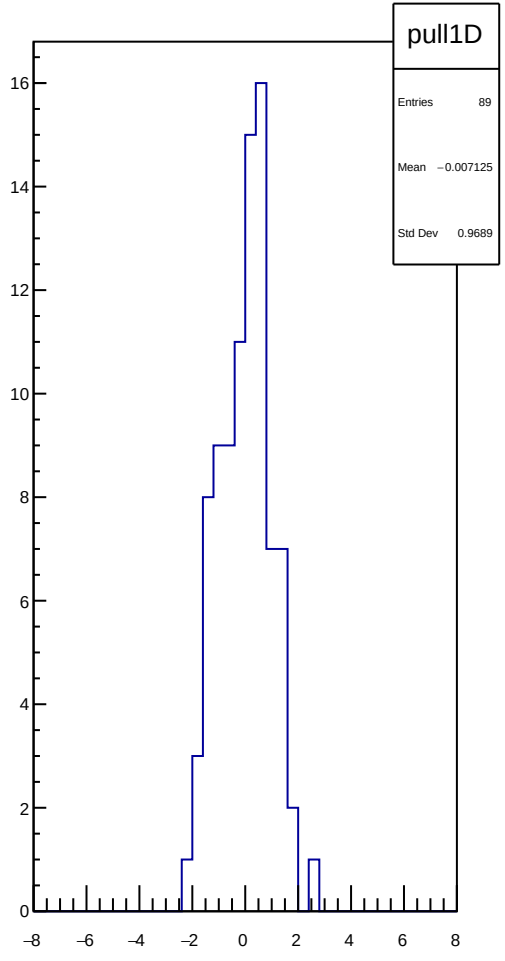

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 146.3 / 88
p0 2164 ± 1.617
2260
2240
2220
2200
2180
2160
2140
2120
2100

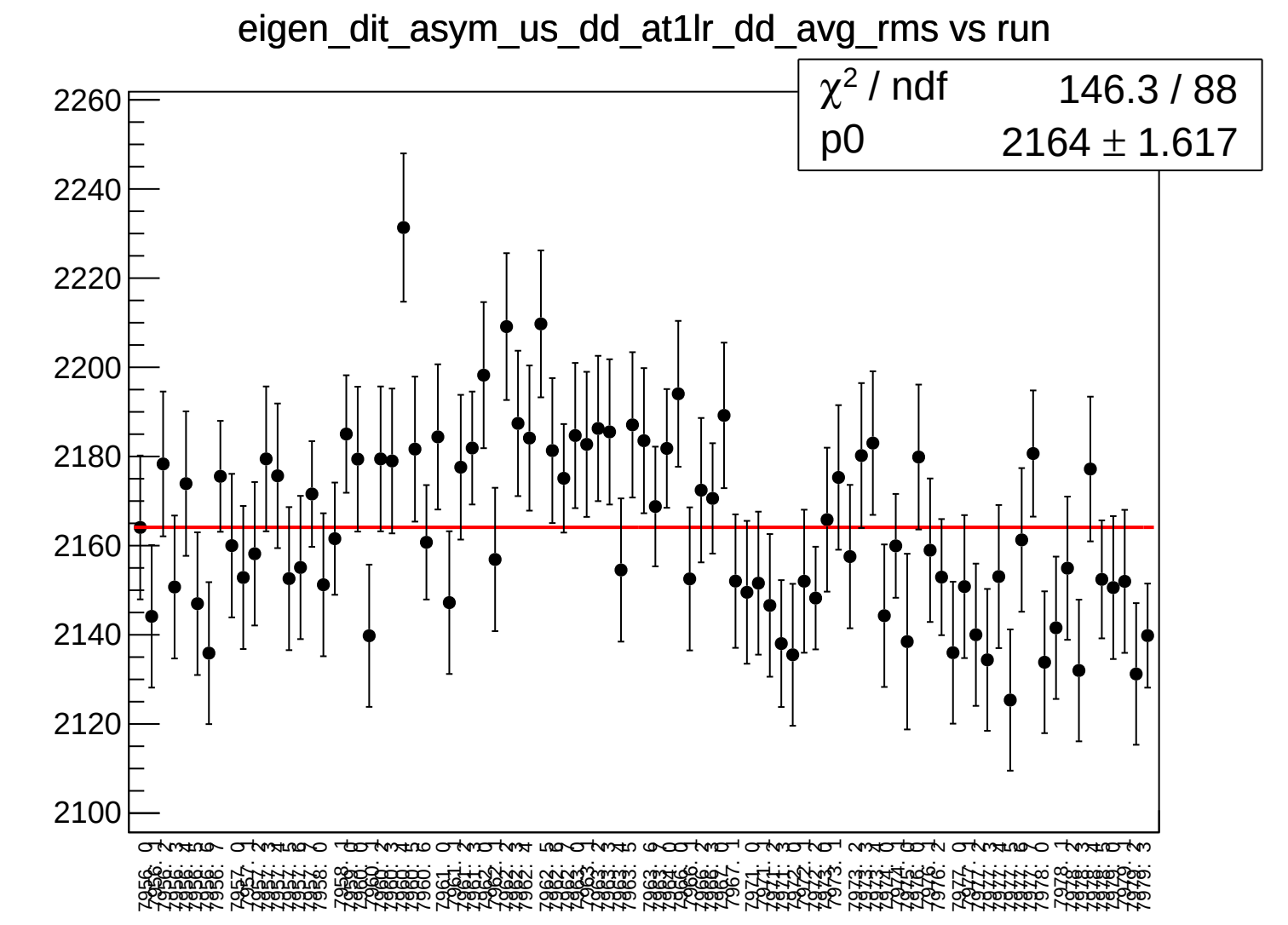

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 91.24 / 88
p0 −704.8 ± 1698
pull
Entries 89
Mean 620.2
Std Dev 0

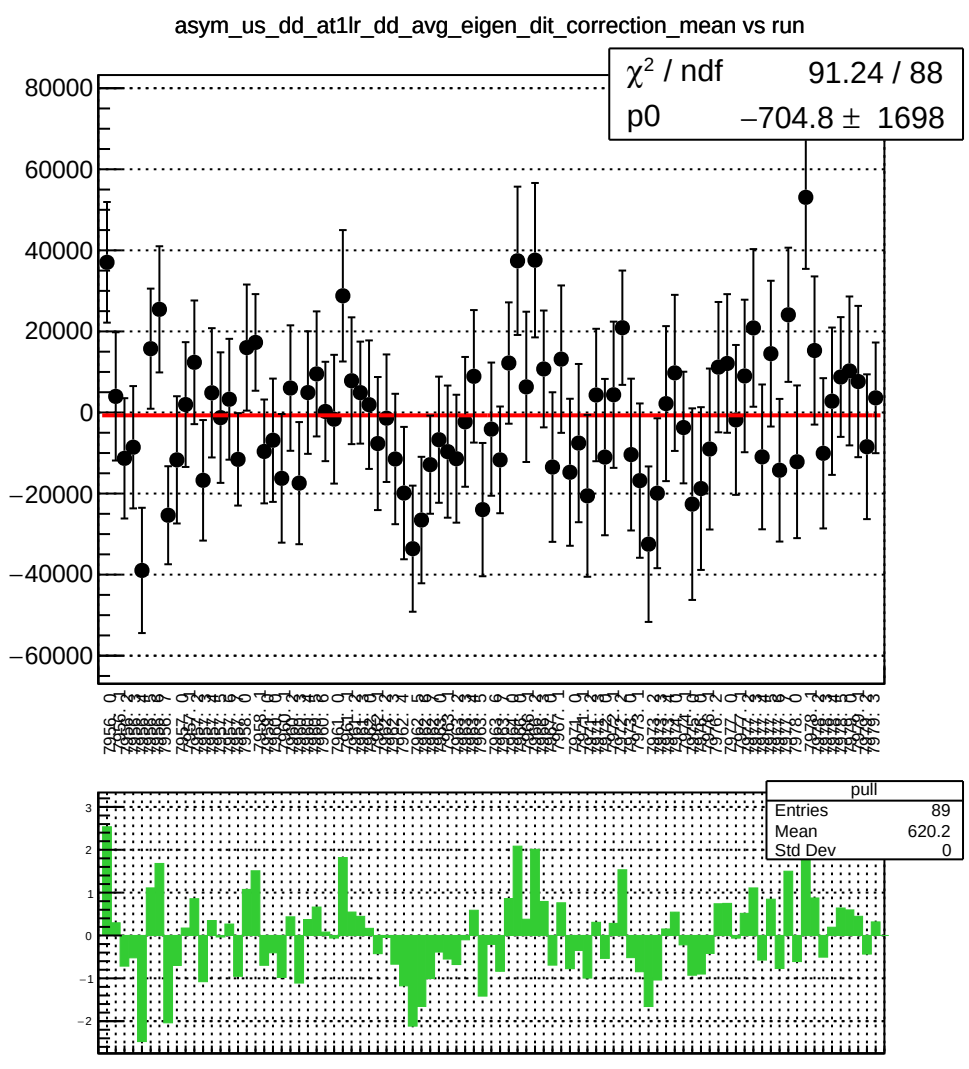

pull1D
Entries 89
Mean 0.004537
Std Dev 1.012

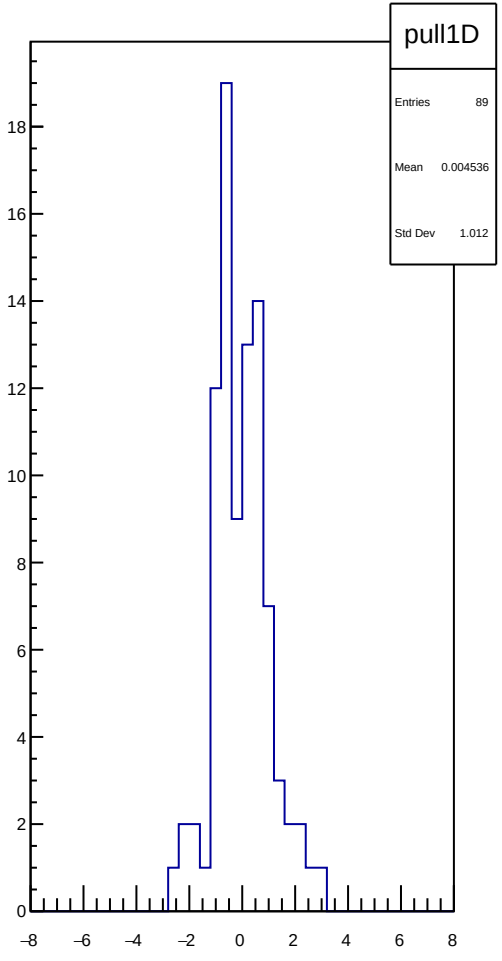

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.579e+04 / 88
p0 1599 ± 1.2
1900
1800
1700
1600
1500
1400

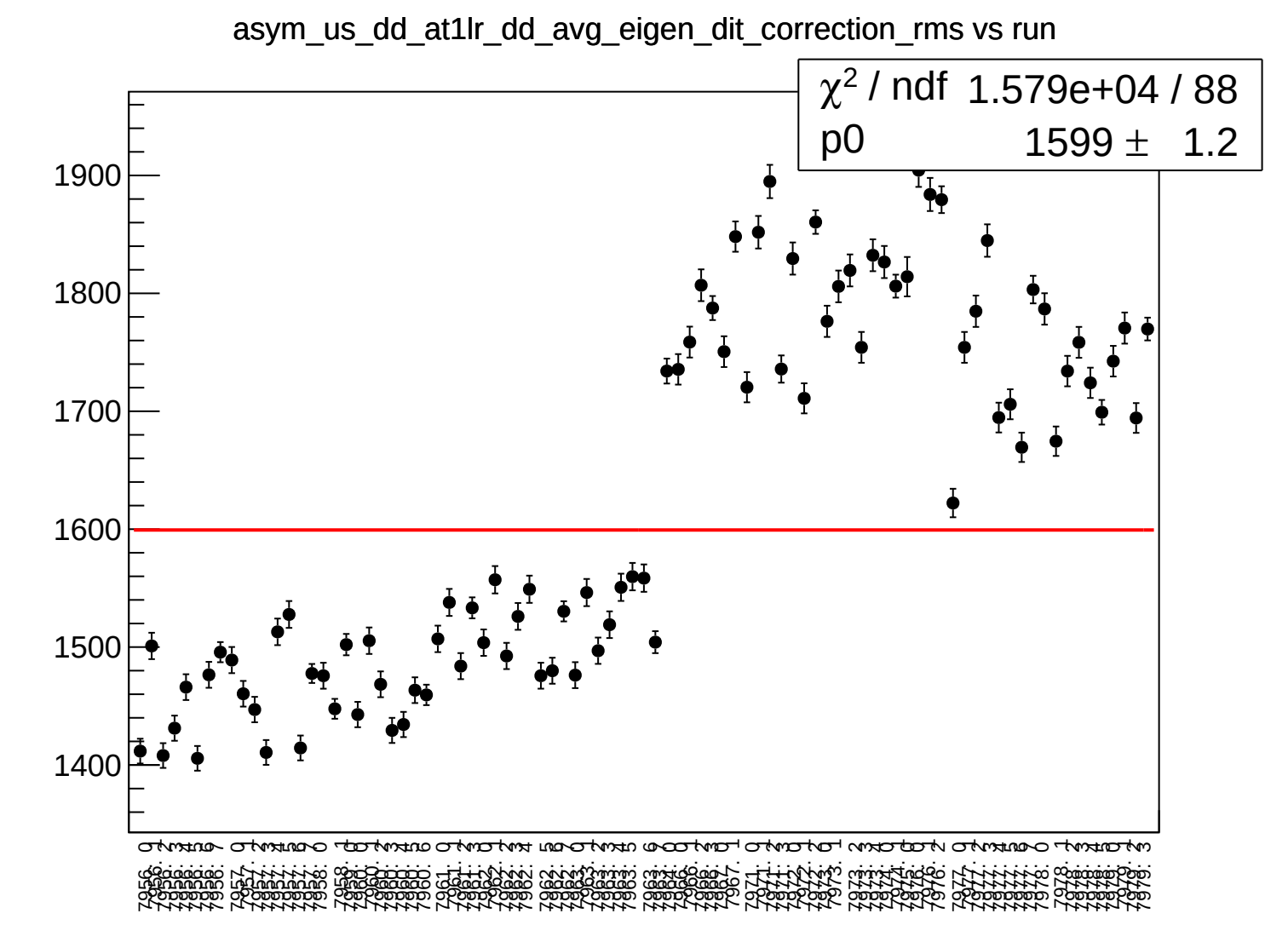

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 83.55 / 88
p0 −1218 ± 2287
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −186.5
Std Dev 0
2
1
0
−1
−2

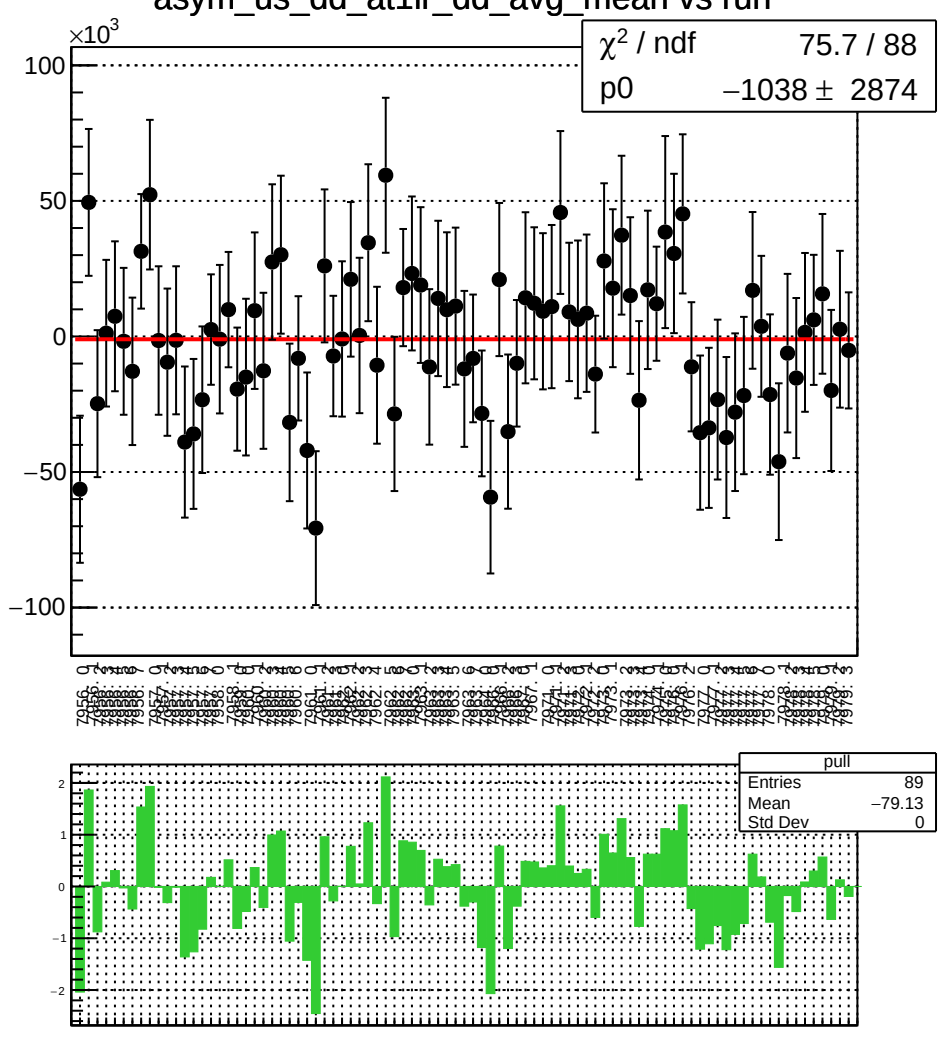

pull1D
Entries 89
Mean −0.007125
Std Dev 0.9689
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

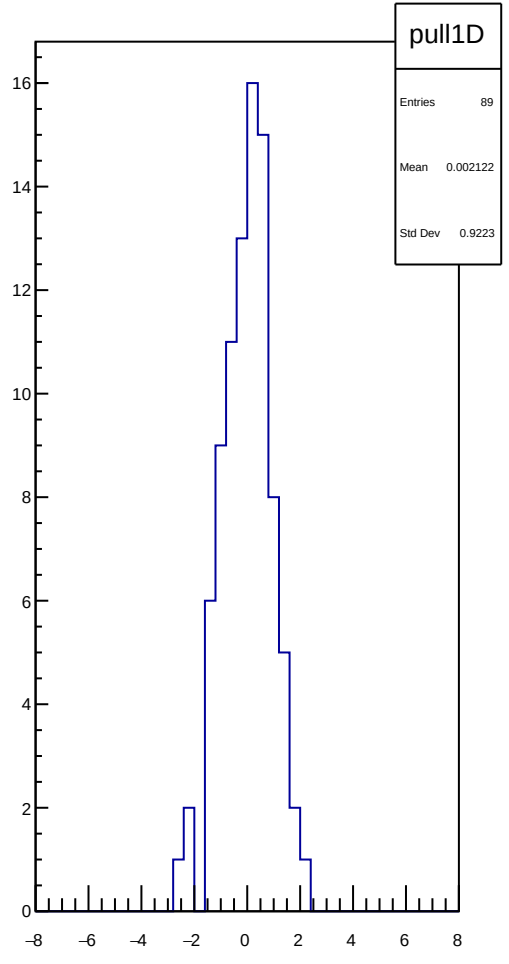

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 146.3 / 88
p0 2164 ± 1.617
2260
2240
2220
2200
2180
2160
2140
2120
2100

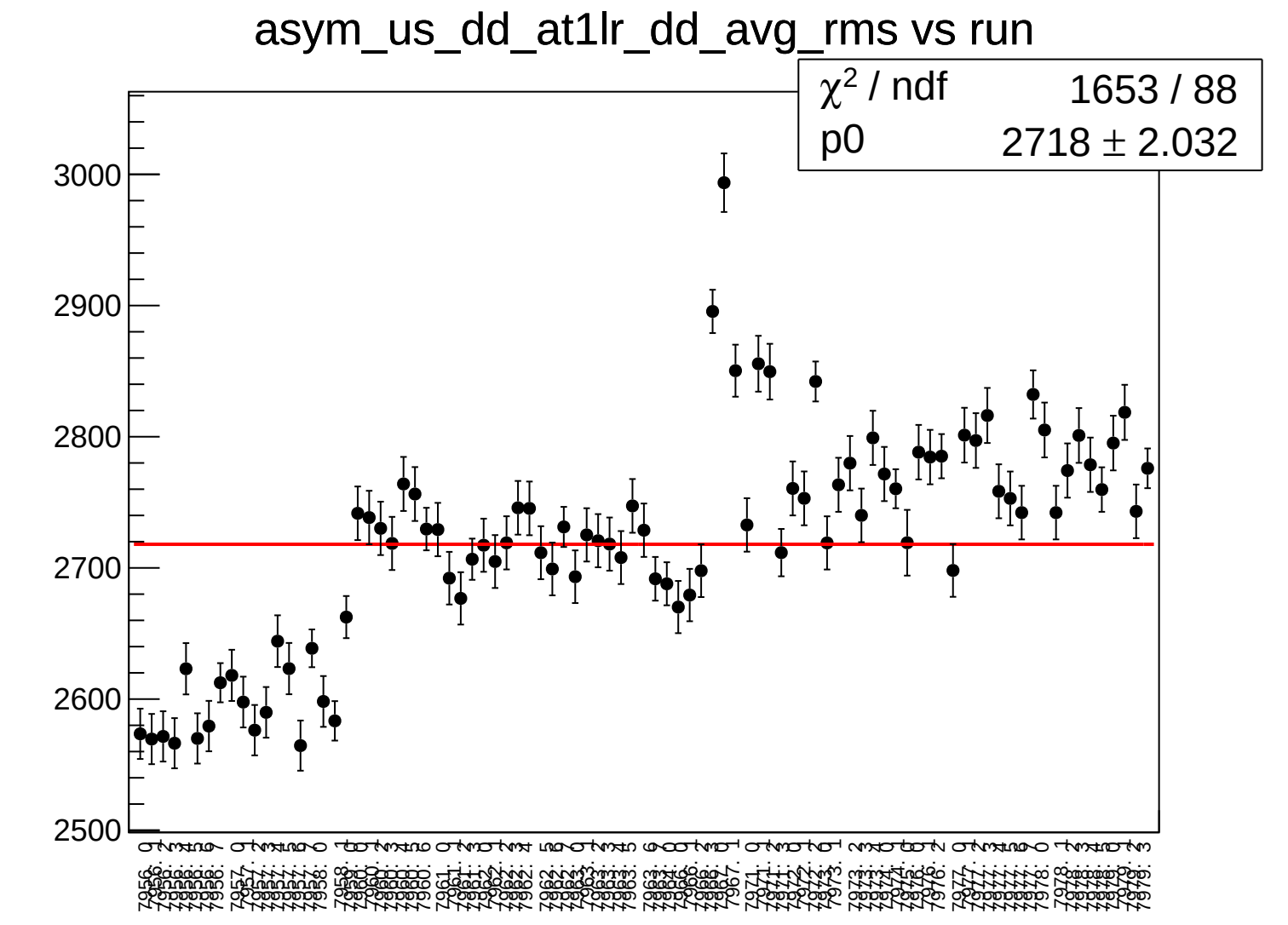

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.24 / 88
p0 −704.8 ± 1698
pull
Entries 89
Mean 620.2
Std Dev 0

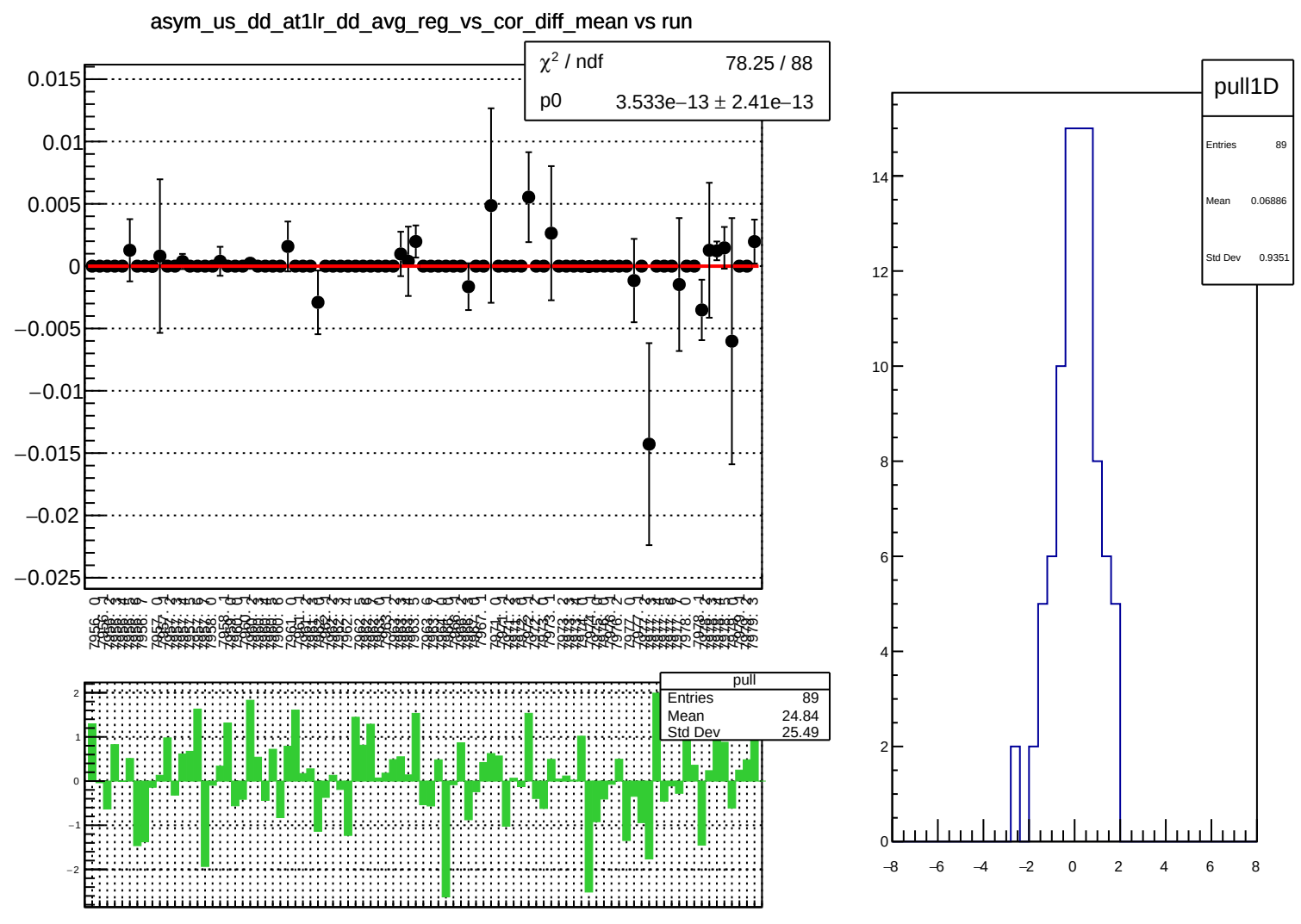

pull1D
Entries 89
Mean 0.004536
Std Dev 1.012

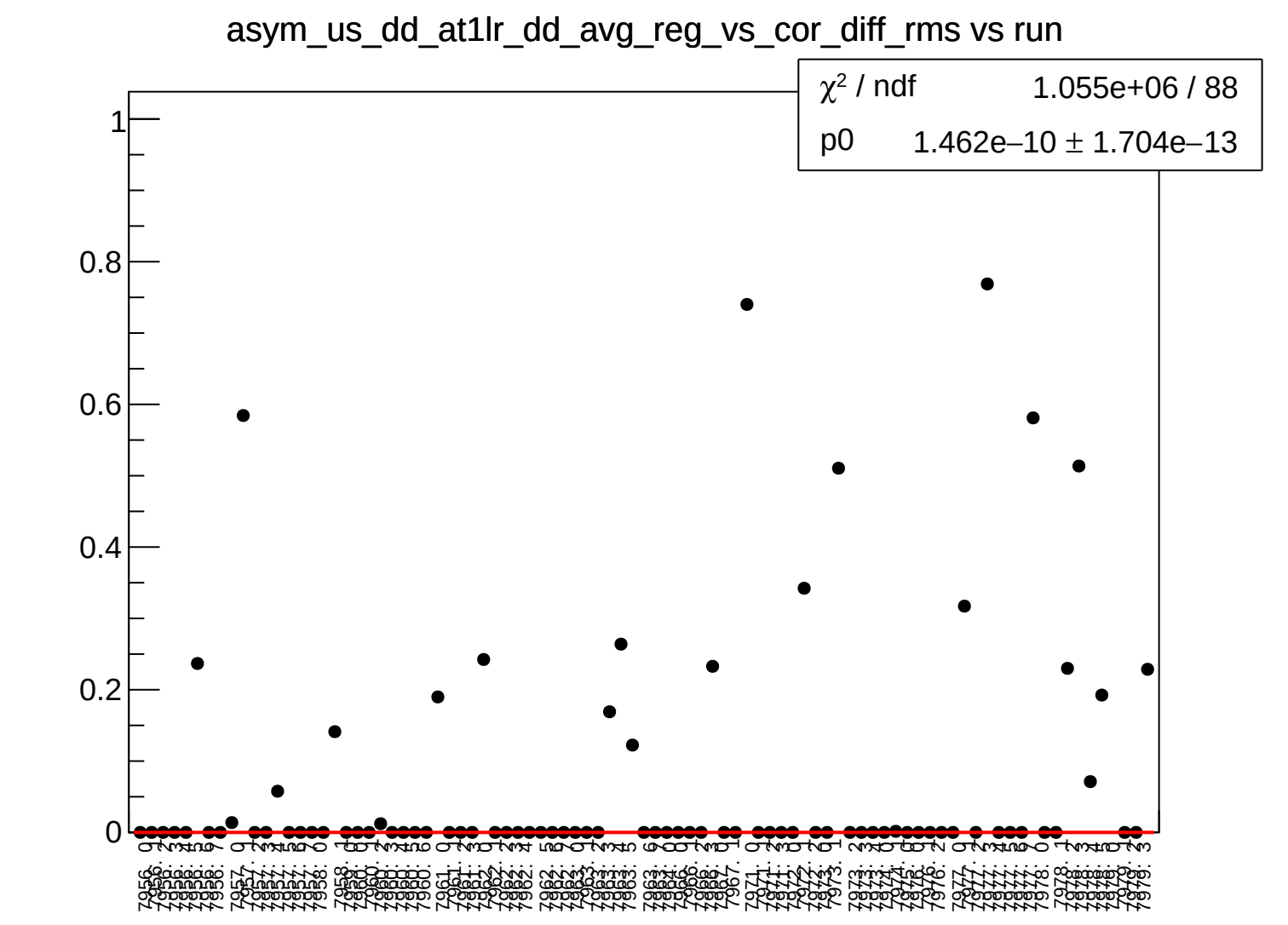

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.579e+04 / 88
p0 1599 ± 1.2
1900
1800
1700
1600
1500
1400

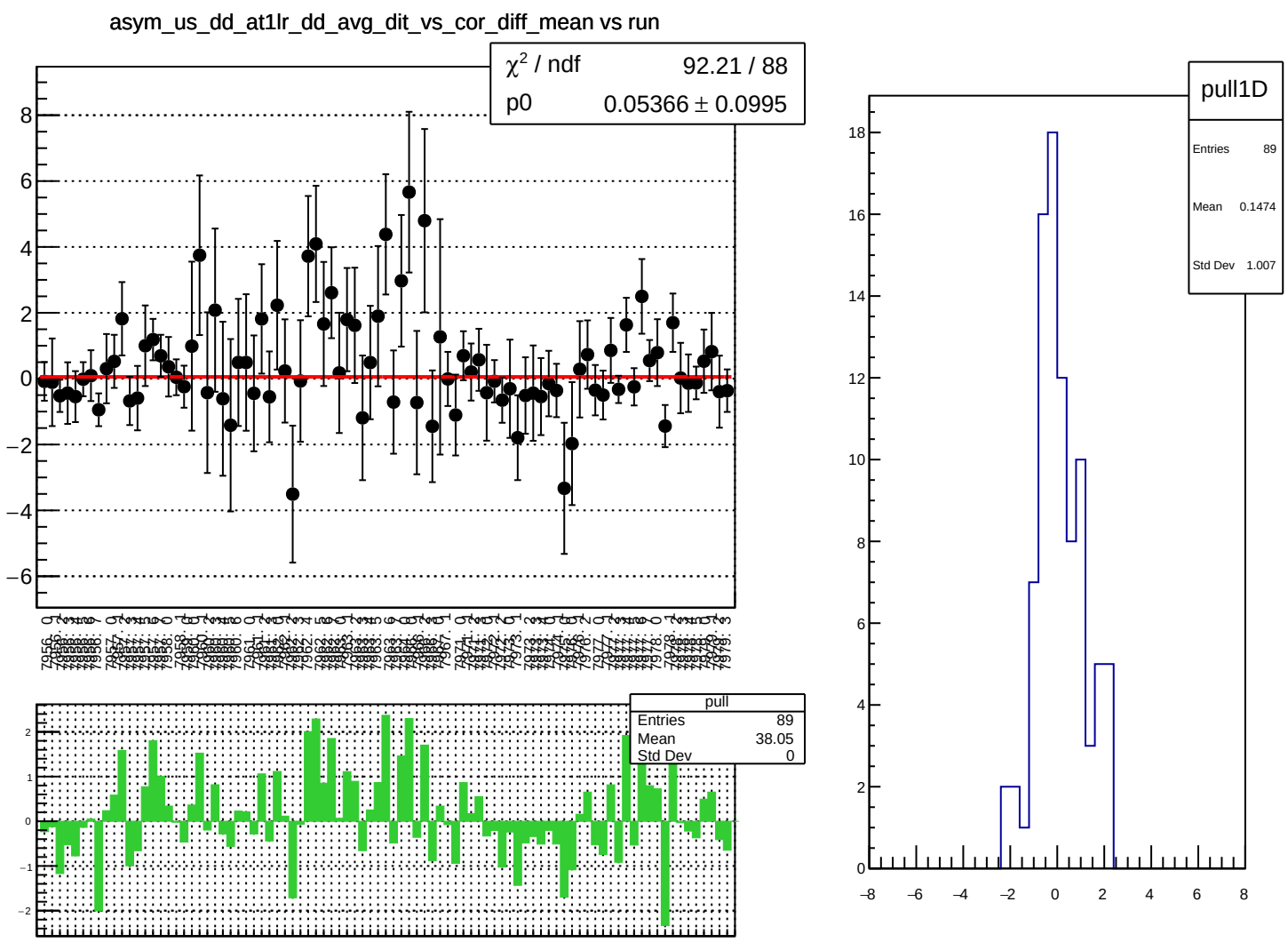

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 75.7 / 88
p0 −1038 ± 2874
100
50
0
−50
−100
pull
Entries 89
Mean −79.13
Std Dev 0
2
1
0
−1
−2

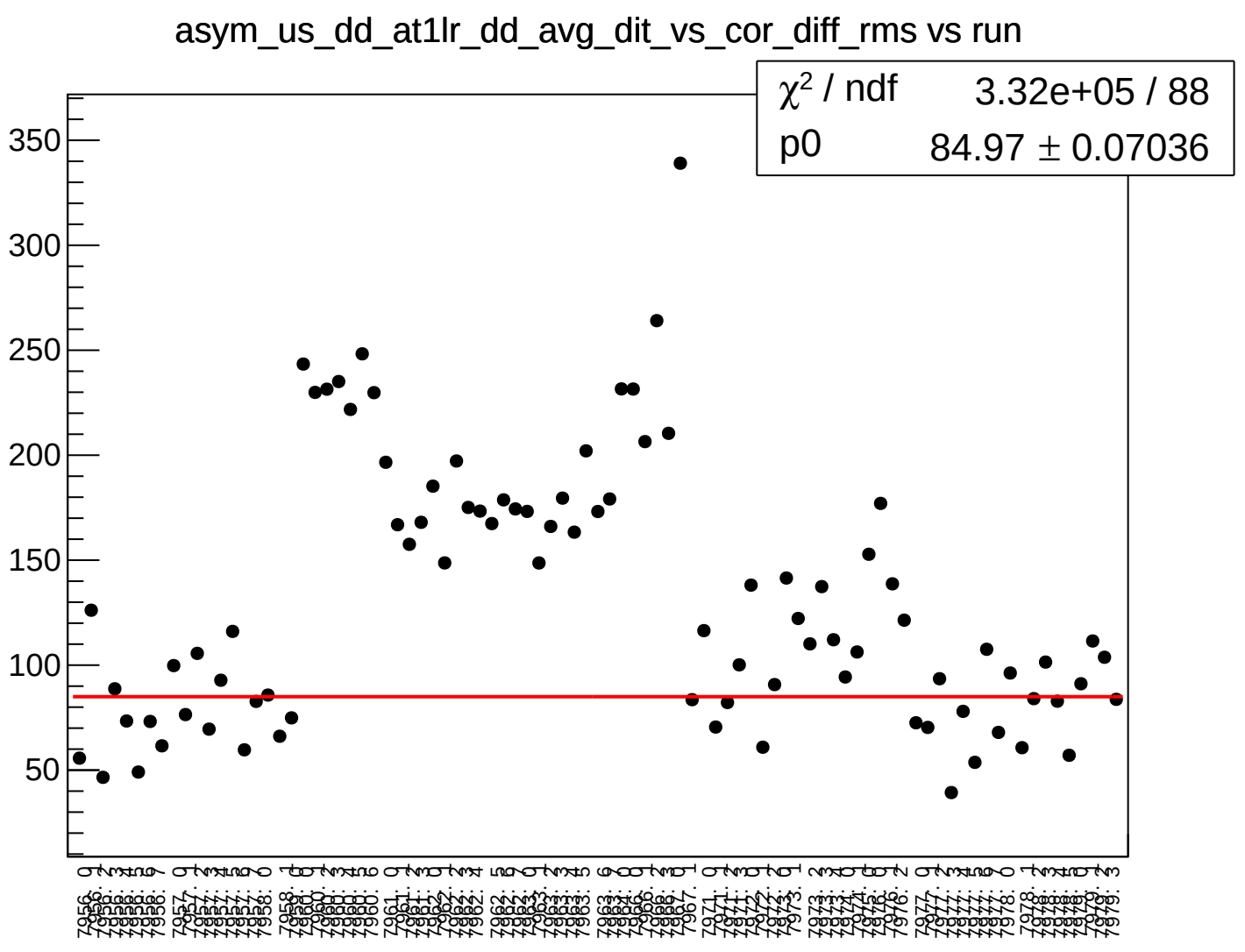

pull1D
Entries 89
Mean 0.002122
Std Dev 0.9223
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

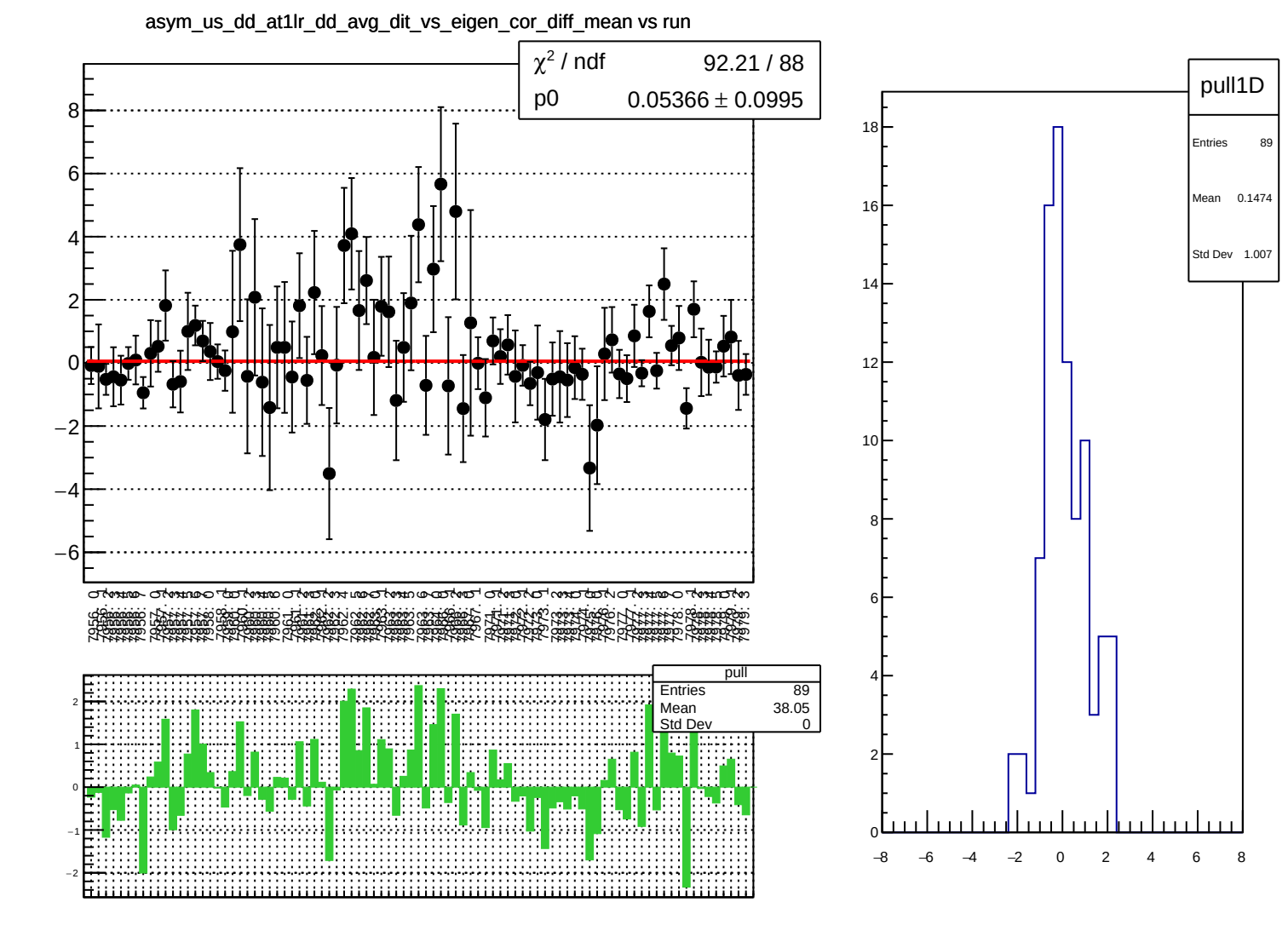

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1653 / 88
p0 2718 ± 2.032
3000
2900
2800
2700
2600
2500

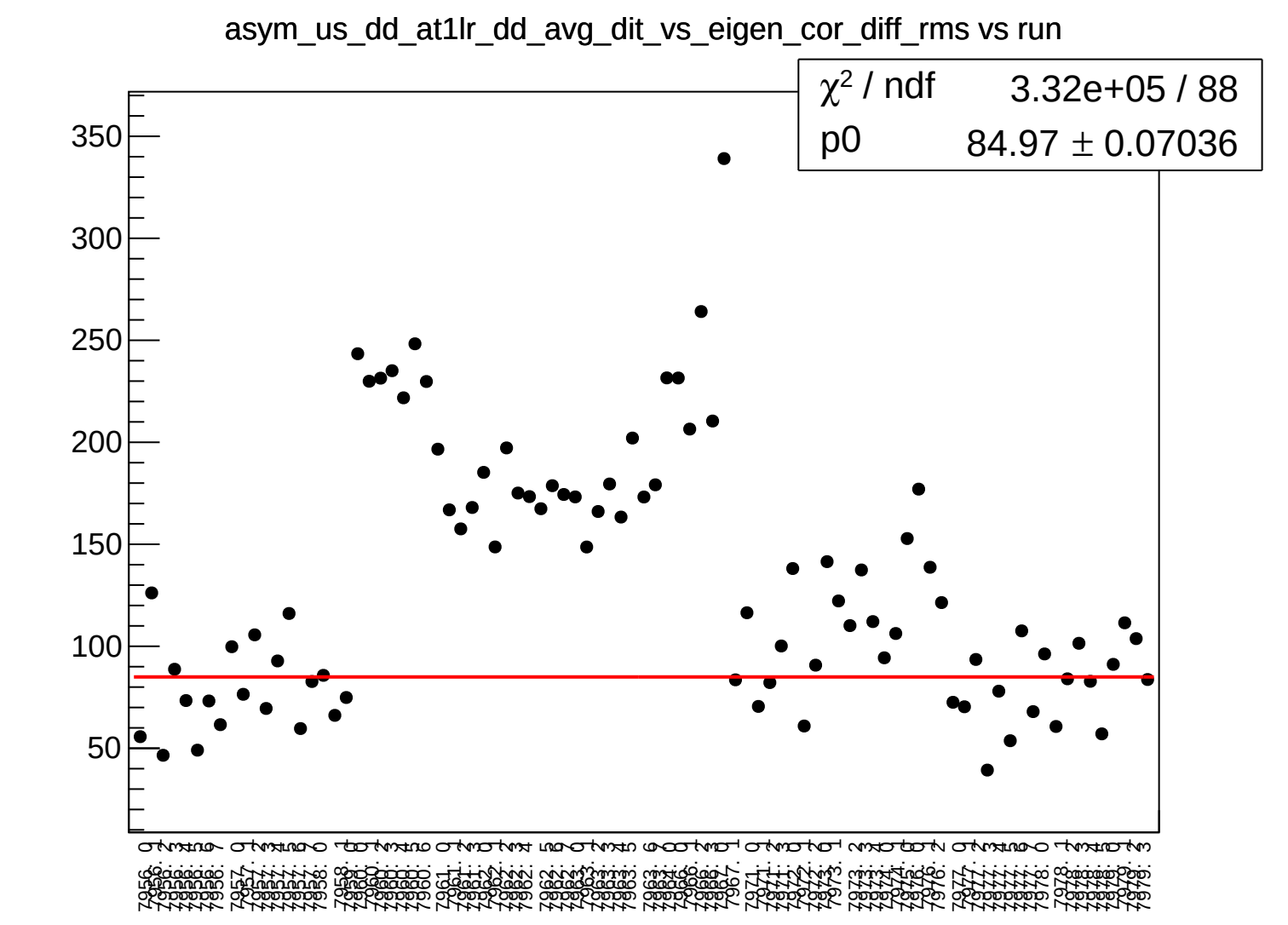

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.25 / 88
p0 3.533e−13 ± 2.41e−13
pull
Entries 89
Mean 24.84
Std Dev 25.49
pull1D
Entries 89
Mean 0.06886
Std Dev 0.9351

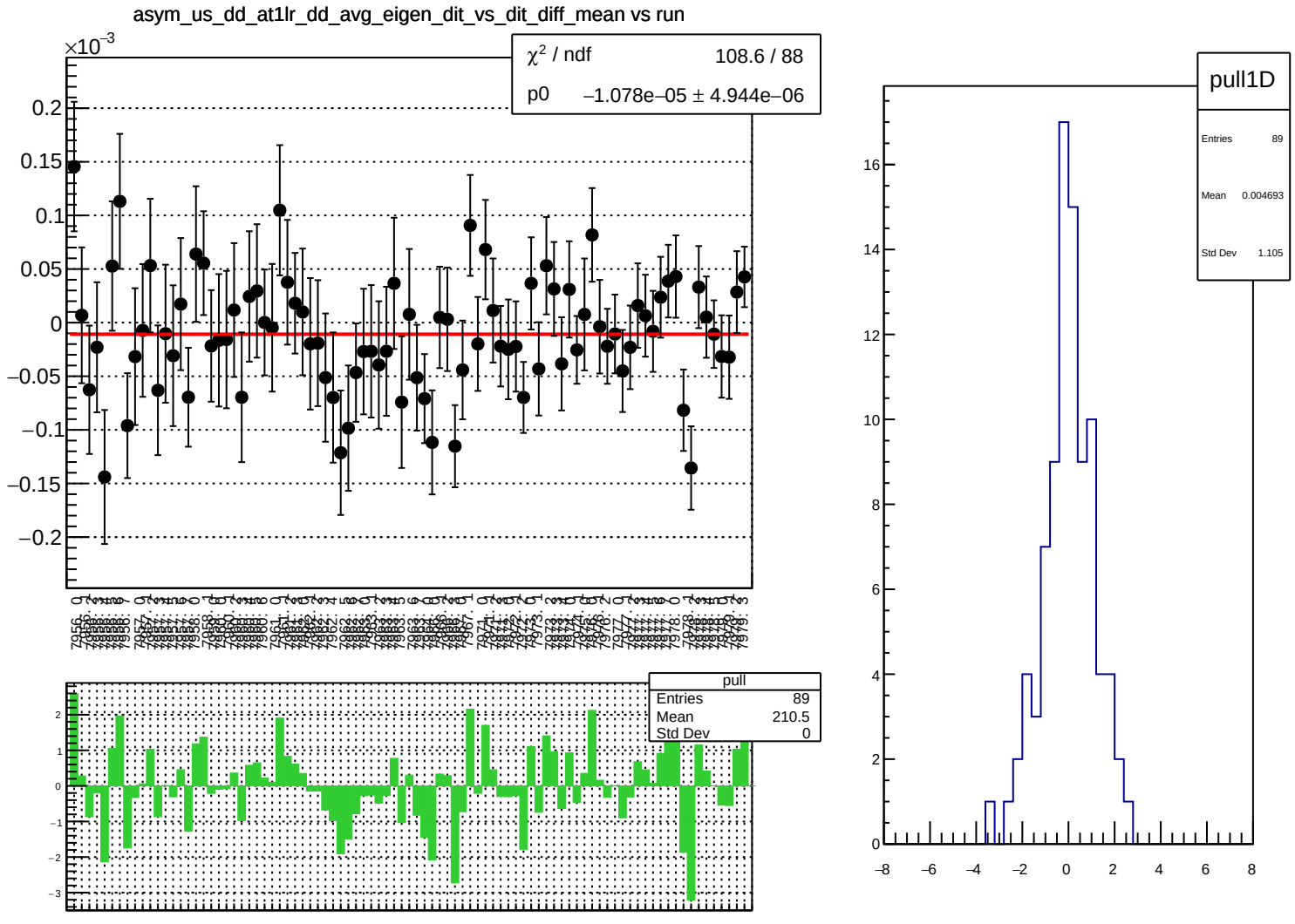

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.055e+06 / 88
p0 1.462e−10 ± 1.704e−13
1
0.8
0.6
0.4
0.2
0

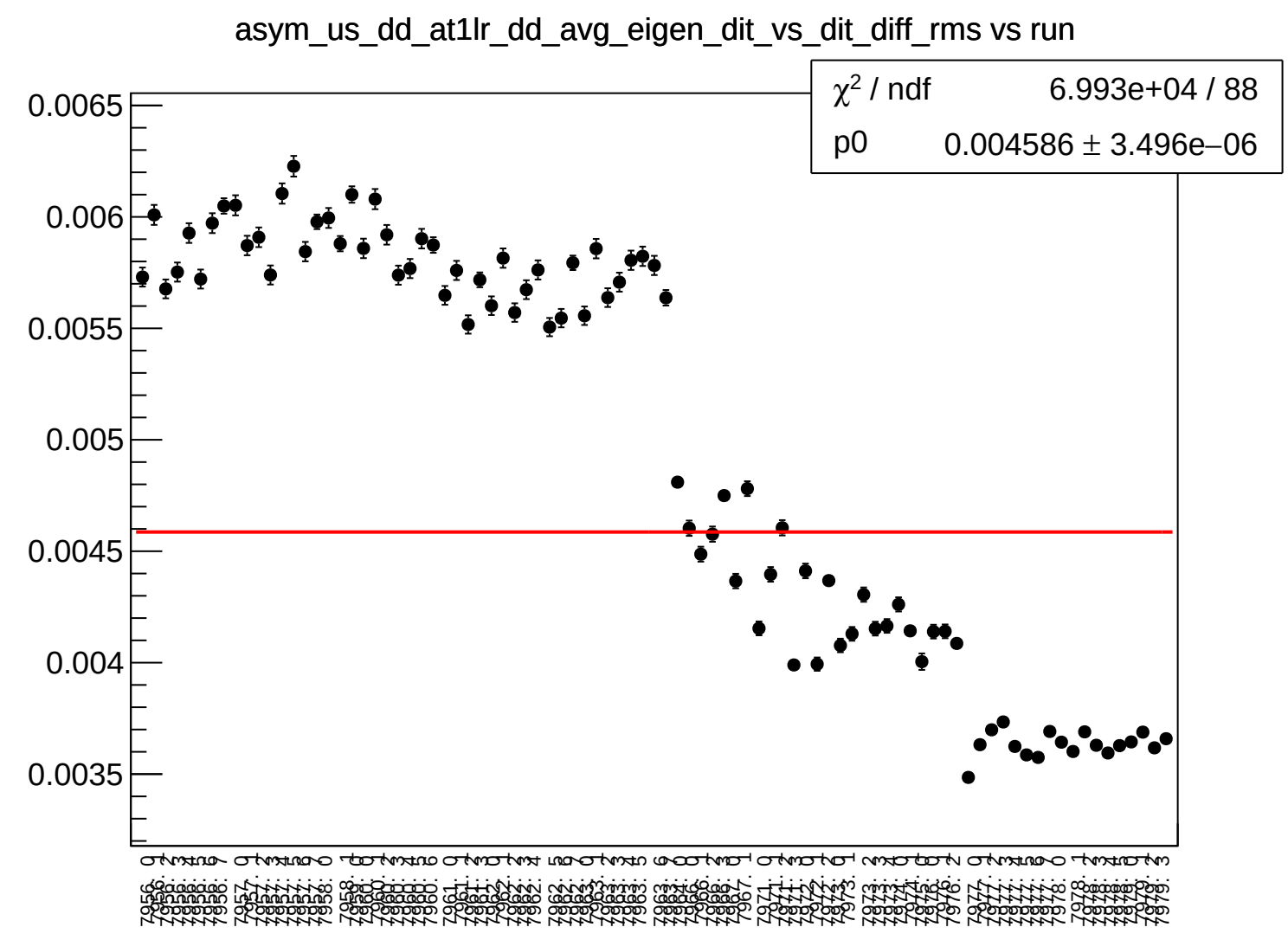

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.21 / 88
p0 0.05366 ± 0.0995
pull
Entries 89
Mean 38.05
Std Dev 0
pull1D
Entries 89
Mean 0.1474
Std Dev 1.007

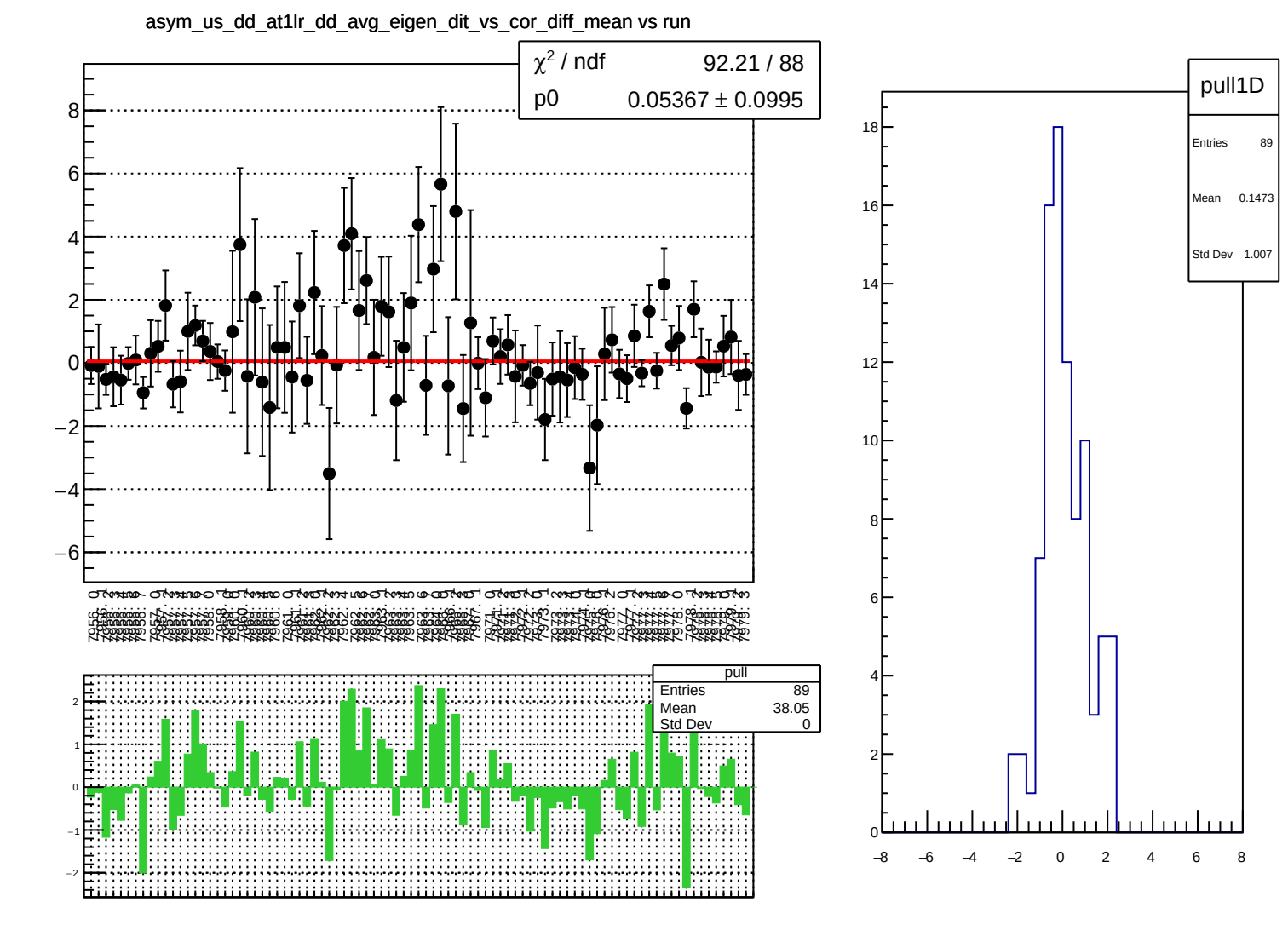

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.32e+05 / 88
p0 84.97 ± 0.07036
350
300
250
200
150
100
50

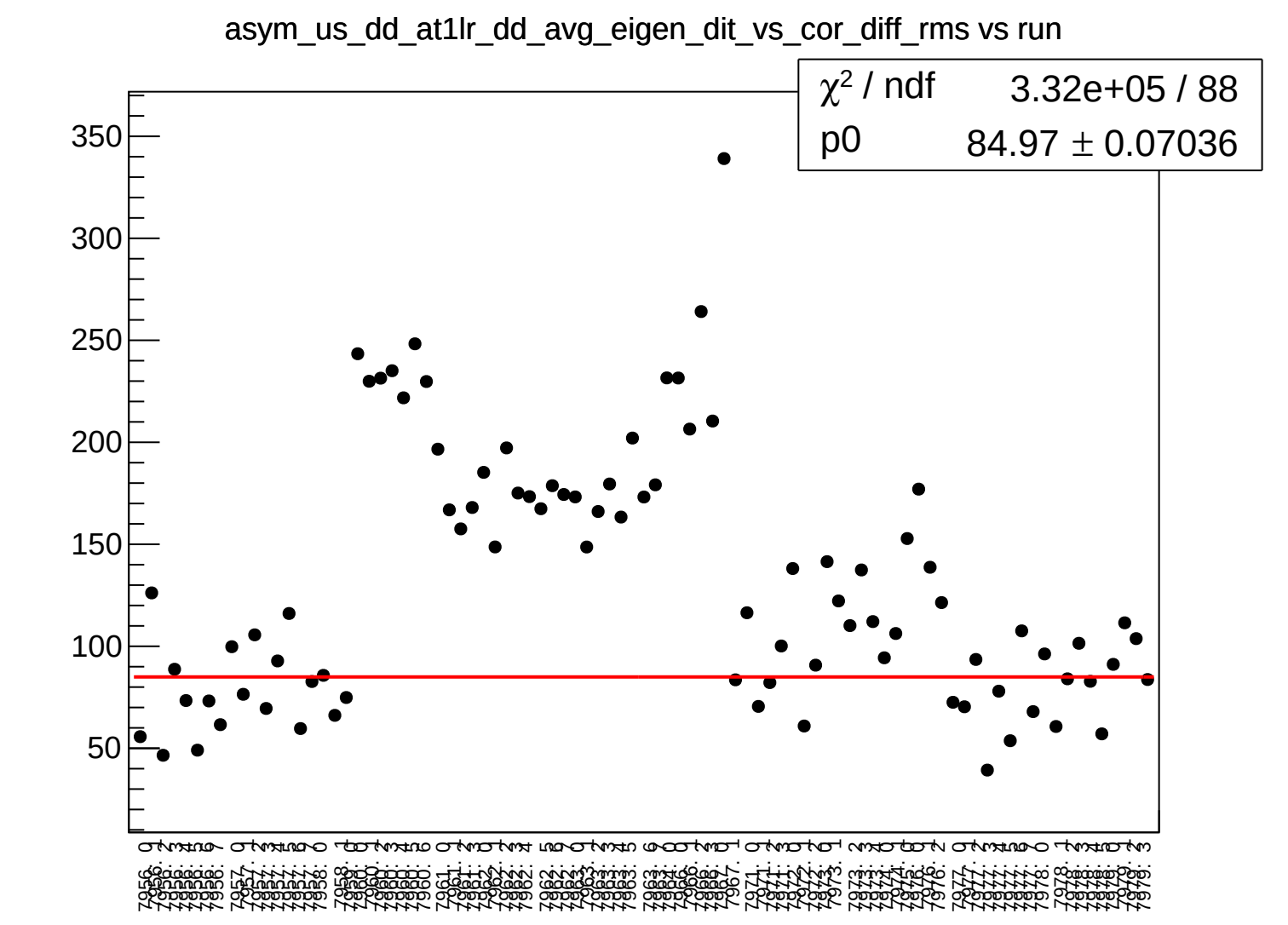

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.21 / 88
p0 0.05366 ± 0.0995
pull
Entries 89
Mean 38.05
Std Dev 0
pull1D
Entries 89
Mean 0.1474
Std Dev 1.007

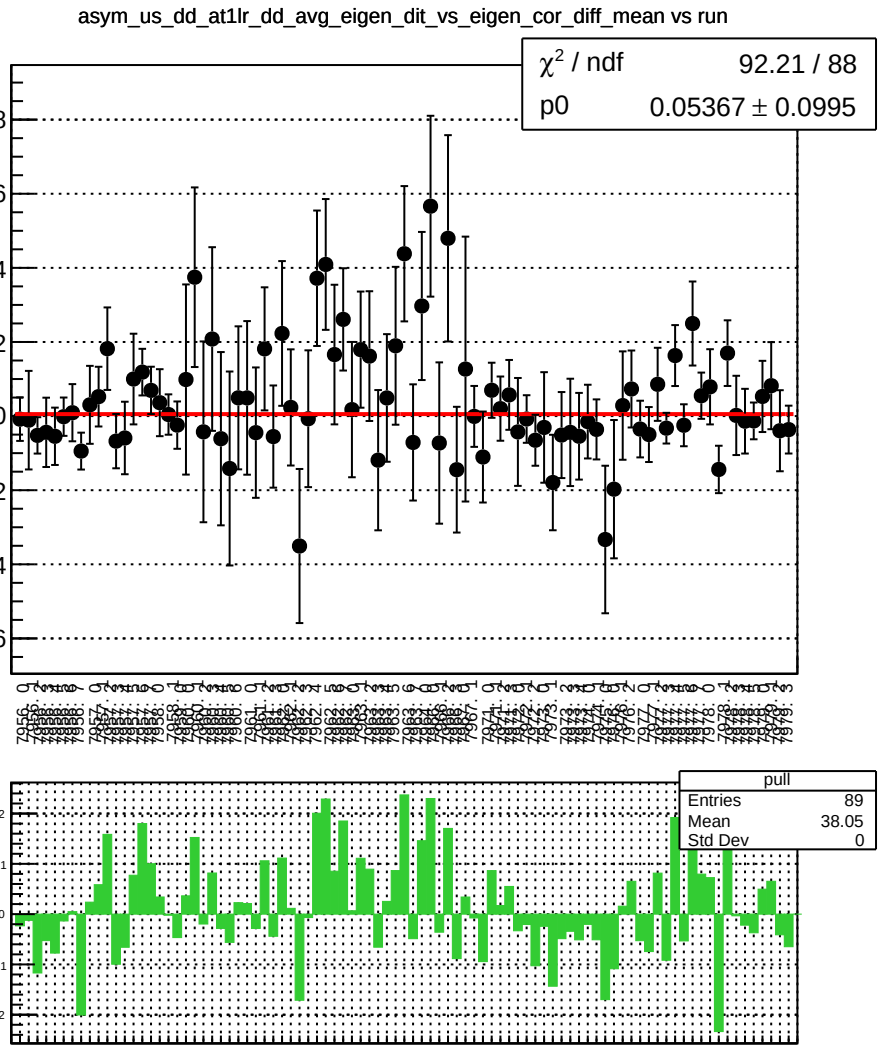

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.32e+05 / 88
p0 84.97 ± 0.07036
350
300
250
200
150
100
50

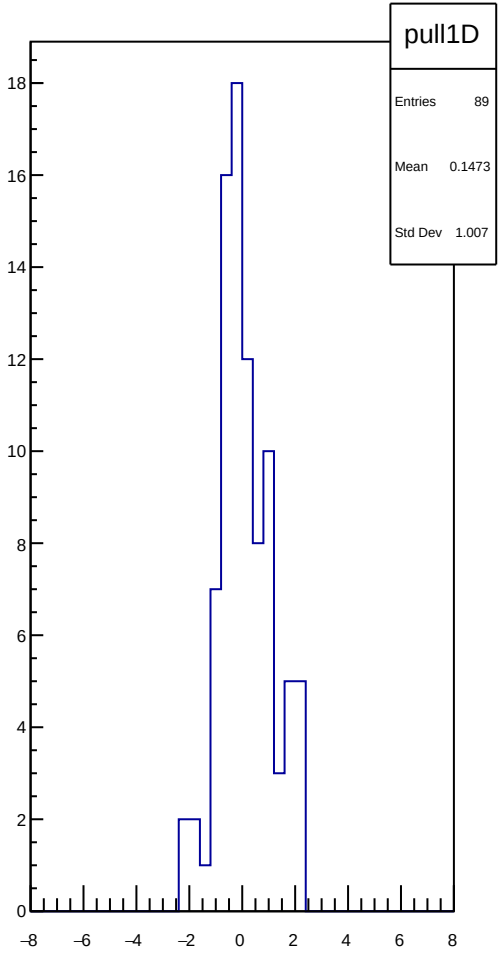

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.6 / 88
p0 −1.078e−05 ± 4.944e−06
pull
Entries 89
Mean 210.5
Std Dev 0
pull1D
Entries 89
Mean 0.004693
Std Dev 1.105

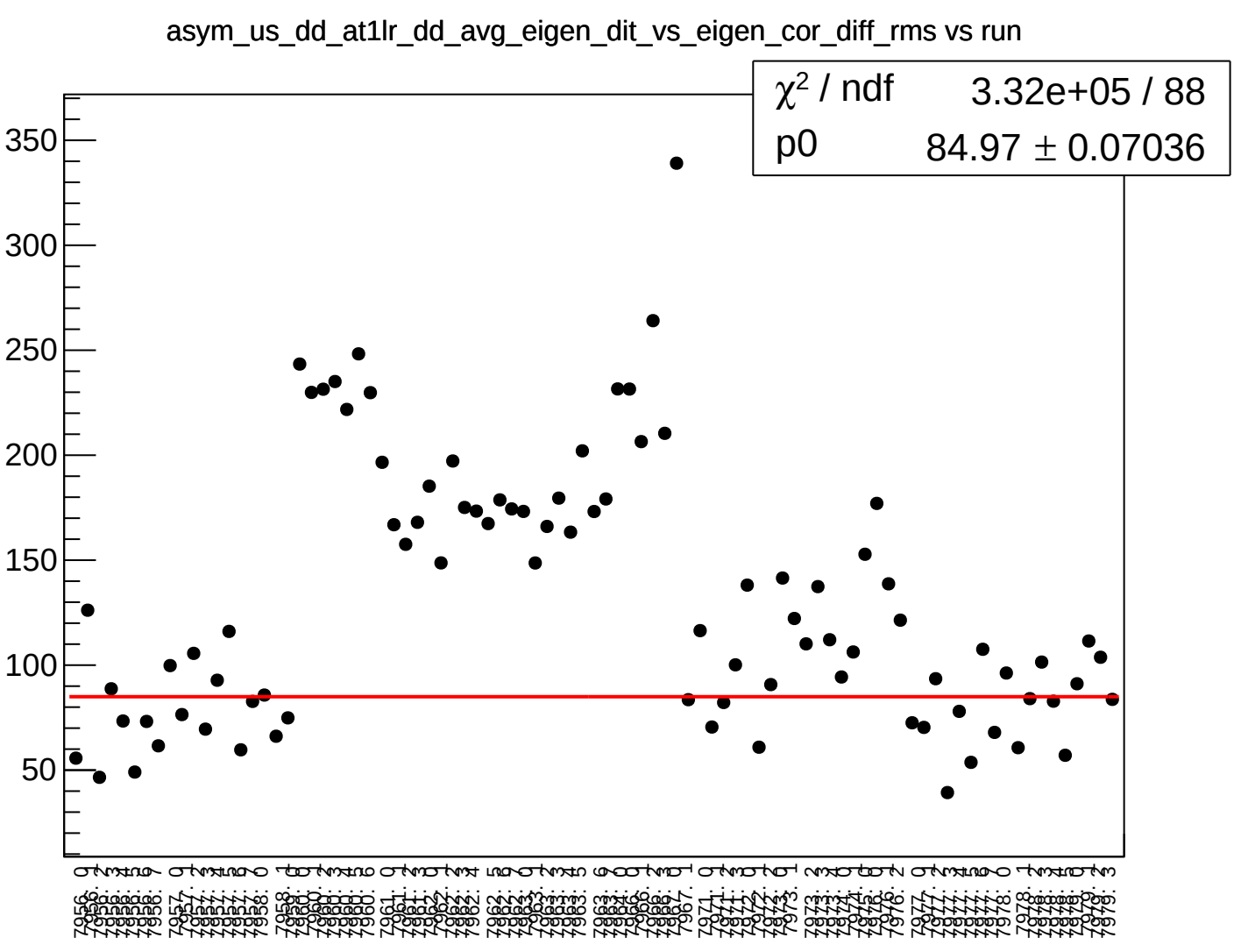

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.993e+04 / 88
p0 0.004586 ± 3.496e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

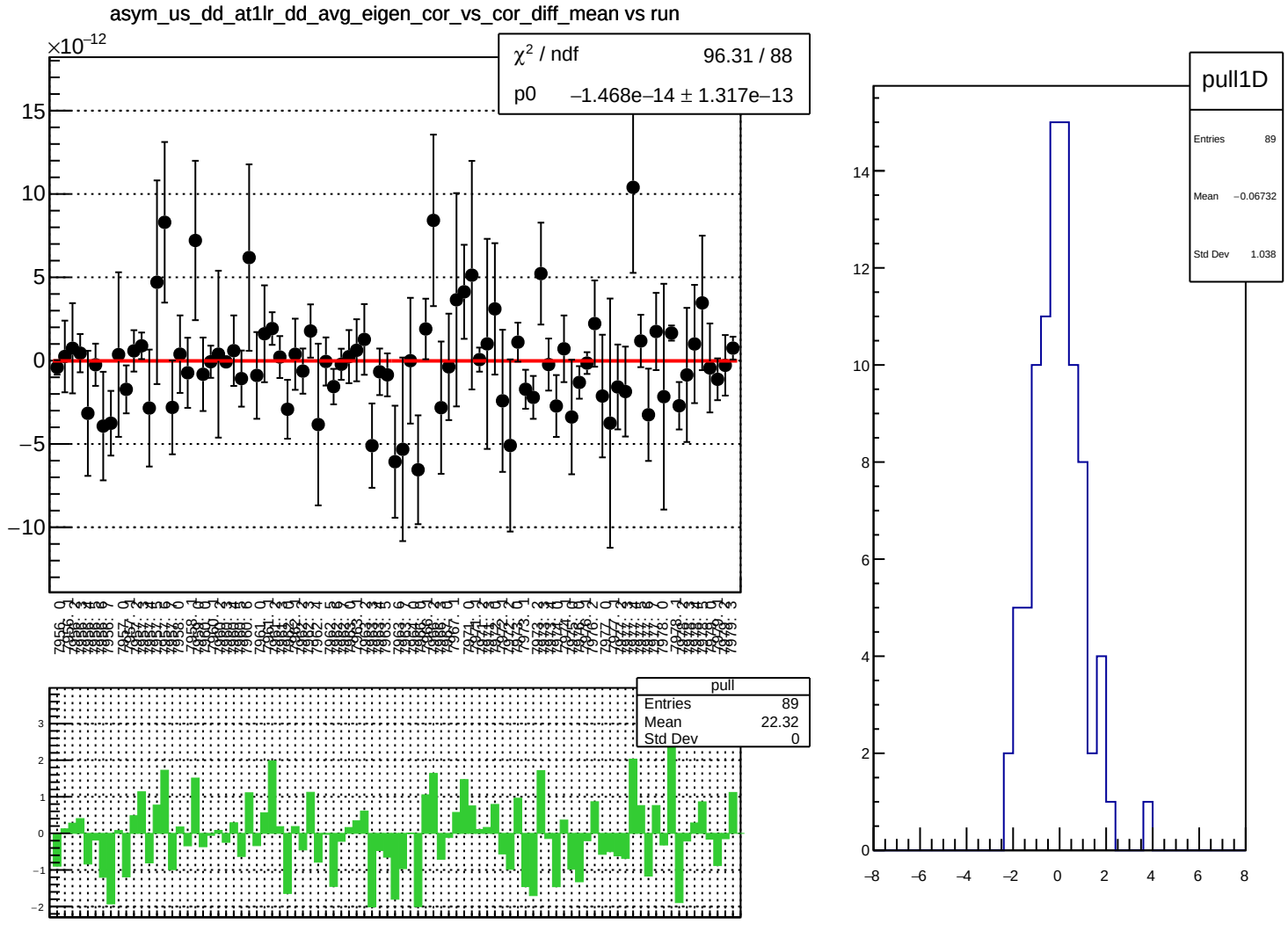

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.21 / 88
p0 0.05367 ± 0.0995
pull
Entries 89
Mean 38.05
Std Dev 0
pull1D
Entries 89
Mean 0.1473
Std Dev 1.007

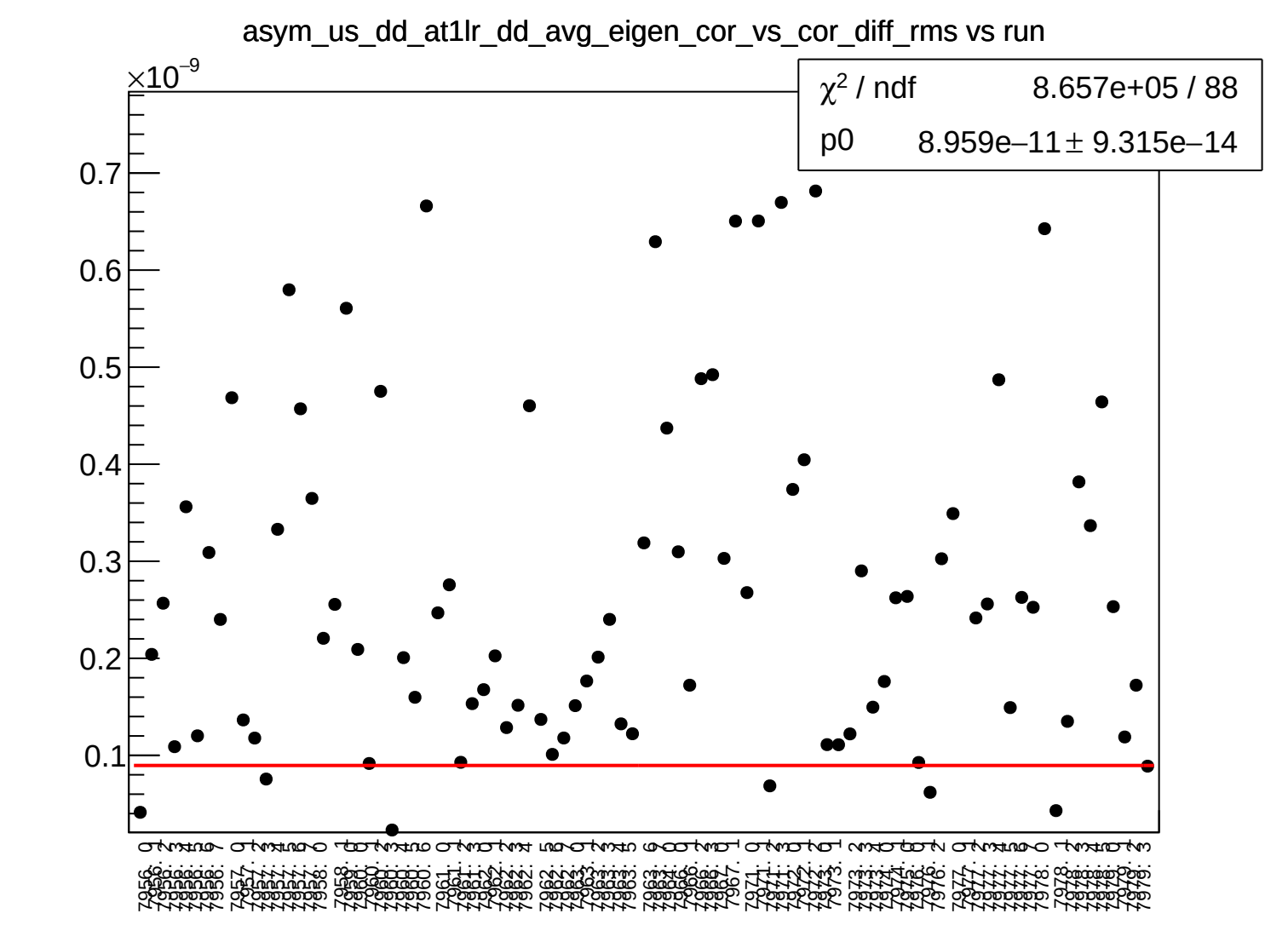

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.32e+05 / 88
p0 84.97 ± 0.07036
350
300
250
200
150
100
50

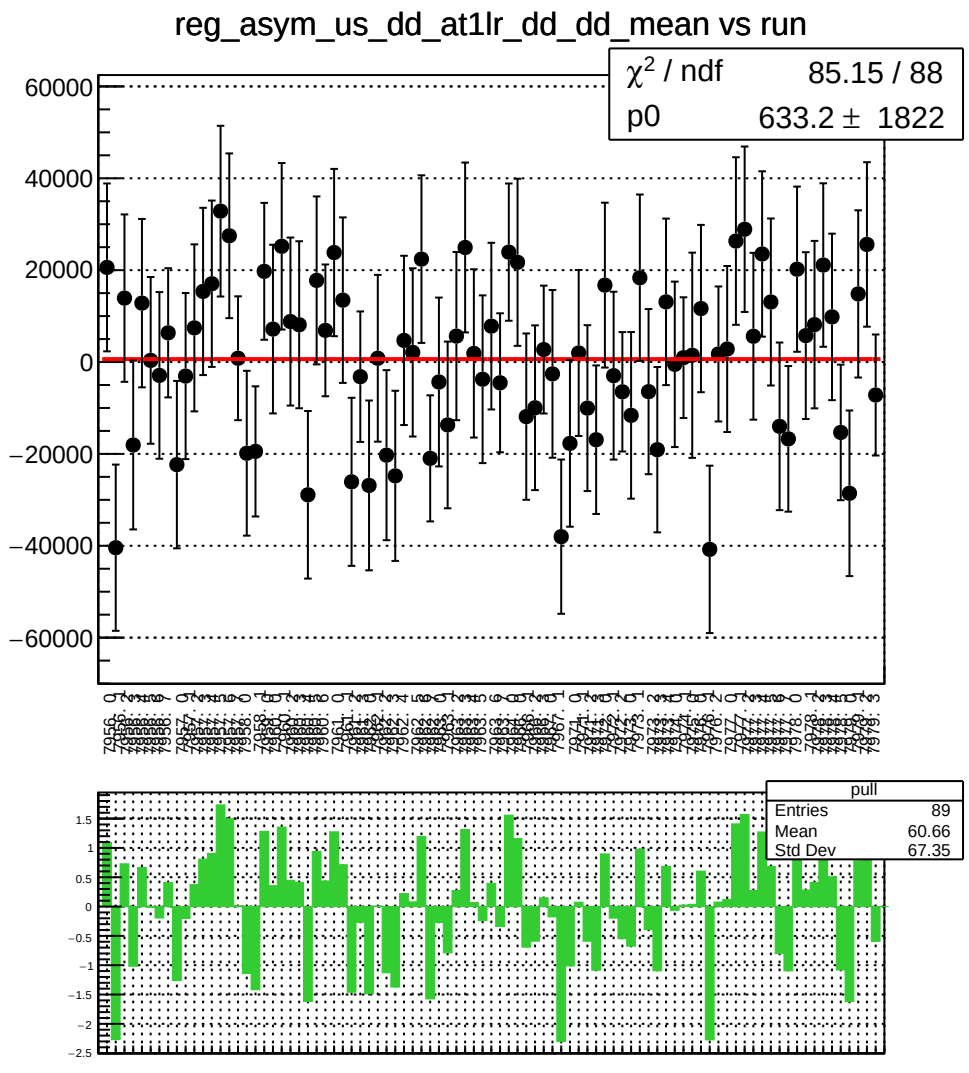

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.21 / 88
p0 0.05367 ± 0.0995
pull
Entries 89
Mean 38.05
Std Dev 0

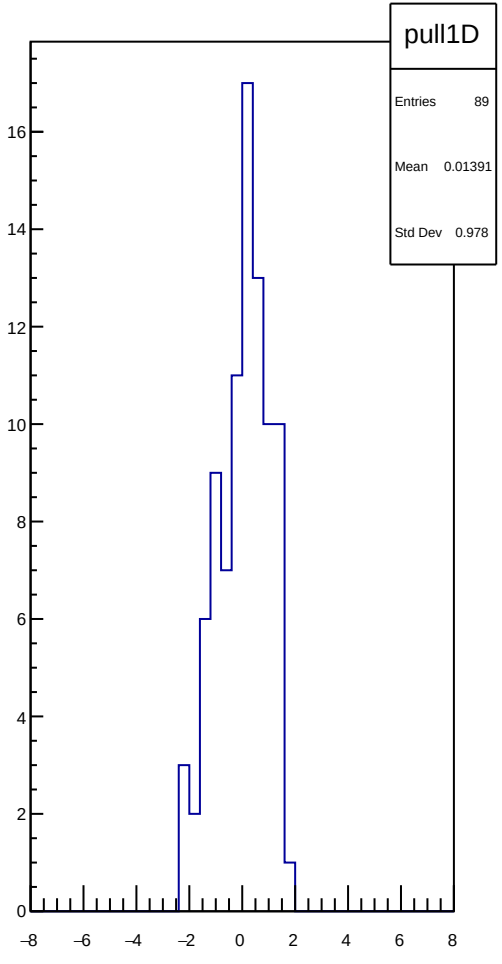

pull1D
Entries 89
Mean 0.1473
Std Dev 1.007

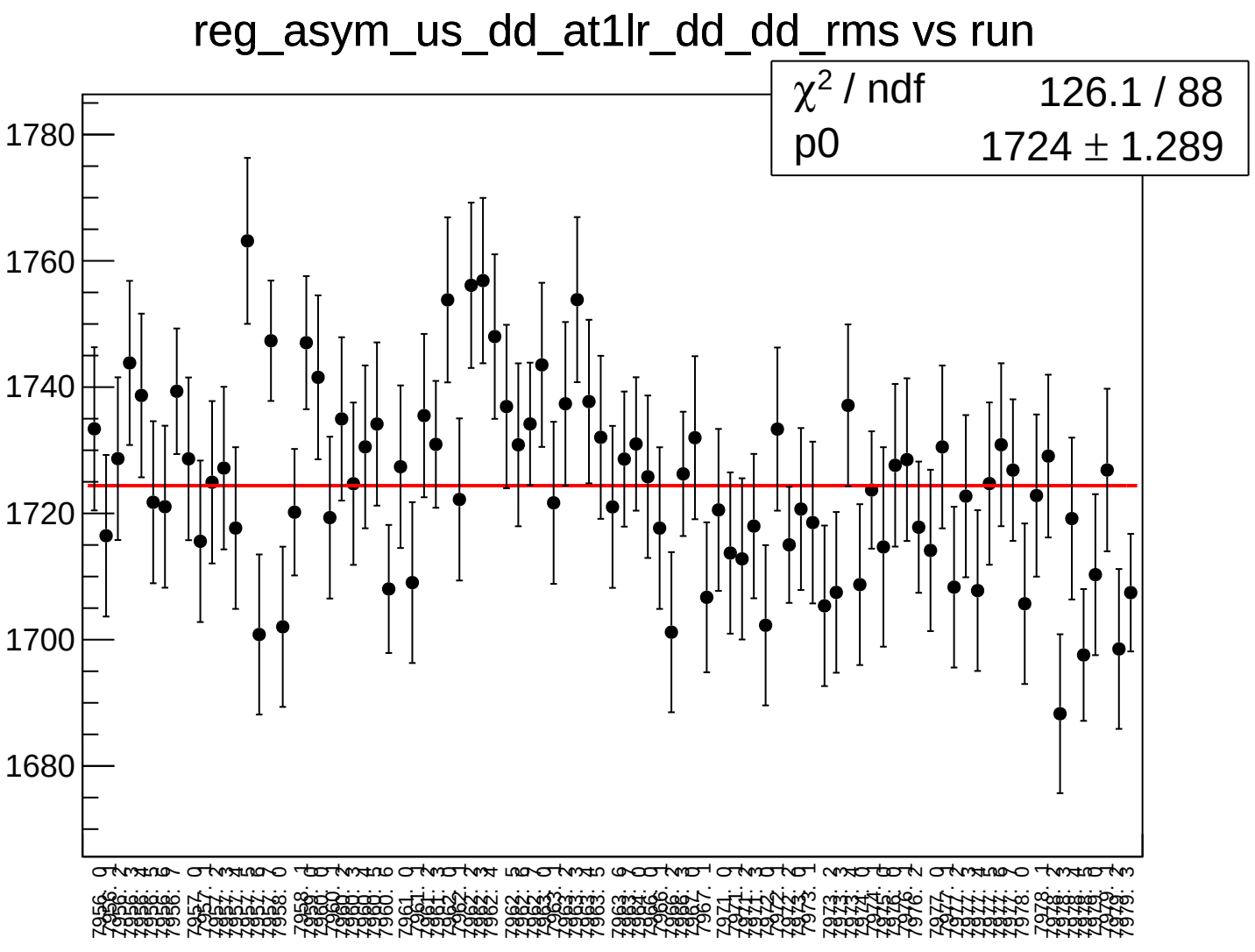

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.32e+05 / 88
p0 84.97 ± 0.07036
350
300
250
200
150
100
50

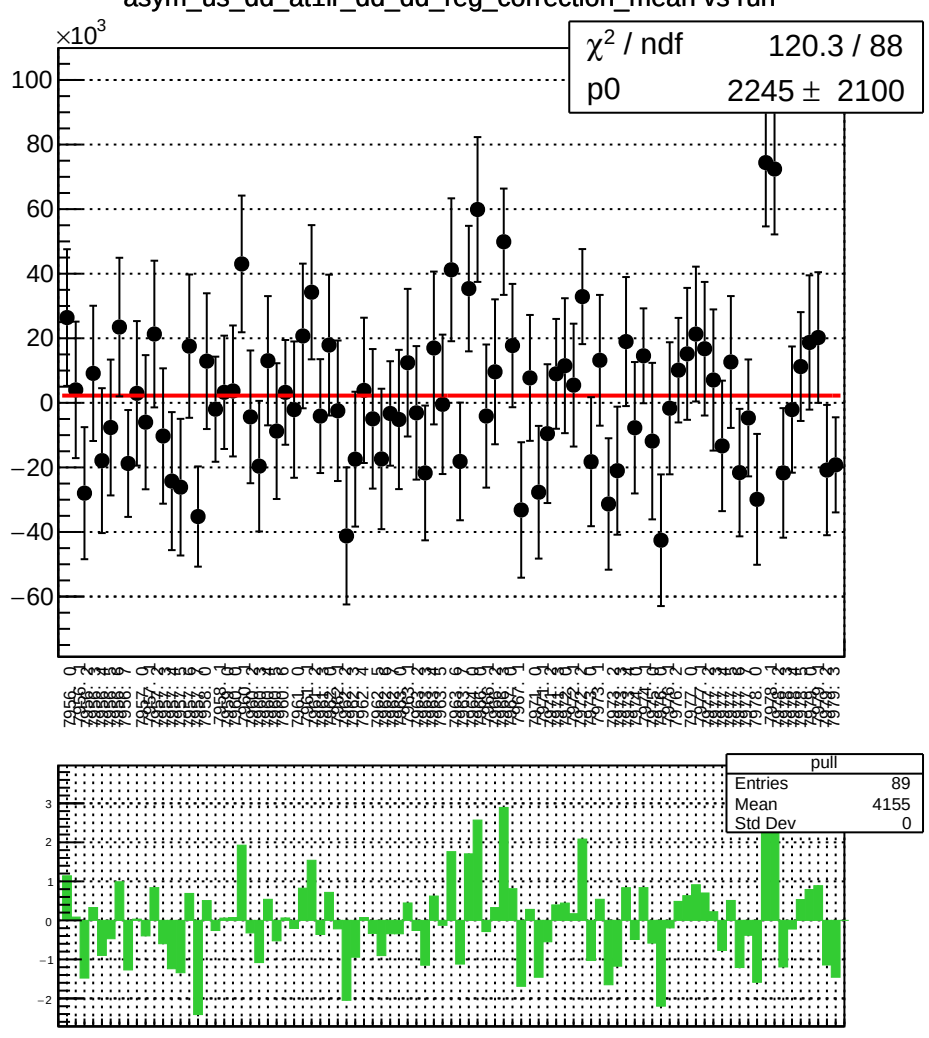

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.31 / 88
p0 −1.468e−14 ± 1.317e−13
15
10
5
0
−5
−10
pull
Entries 89
Mean 22.32
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.06732
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

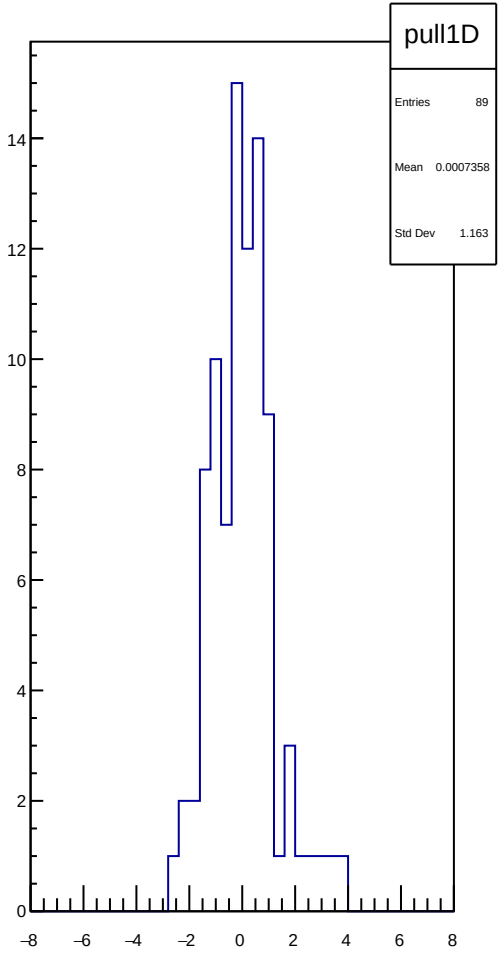

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.657e+05 / 88
p0 8.959e−11 ± 9.315e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

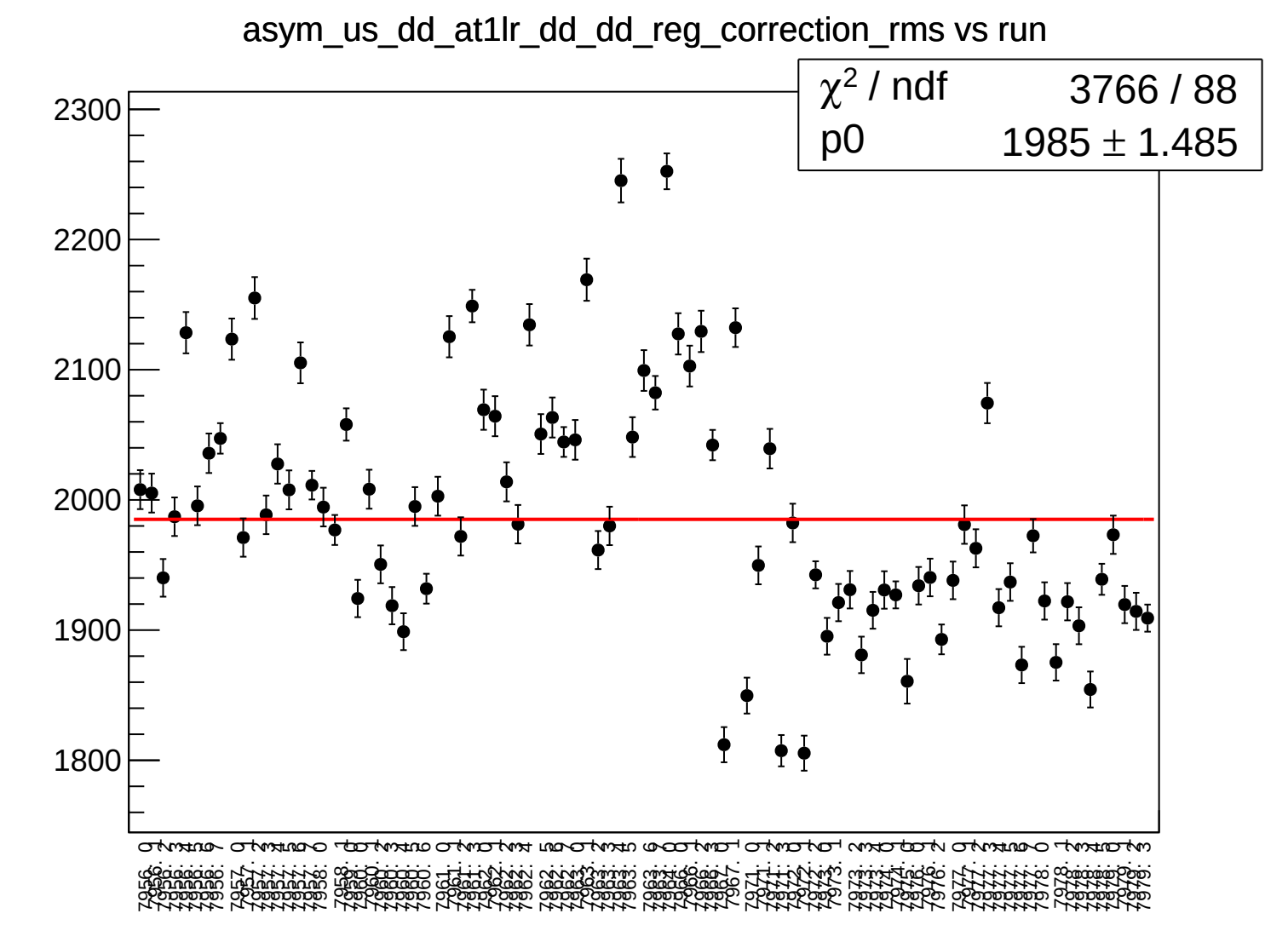

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 85.15 / 88
p0 633.2 ± 1822
pull
Entries 89
Mean 60.66
Std Dev 67.35

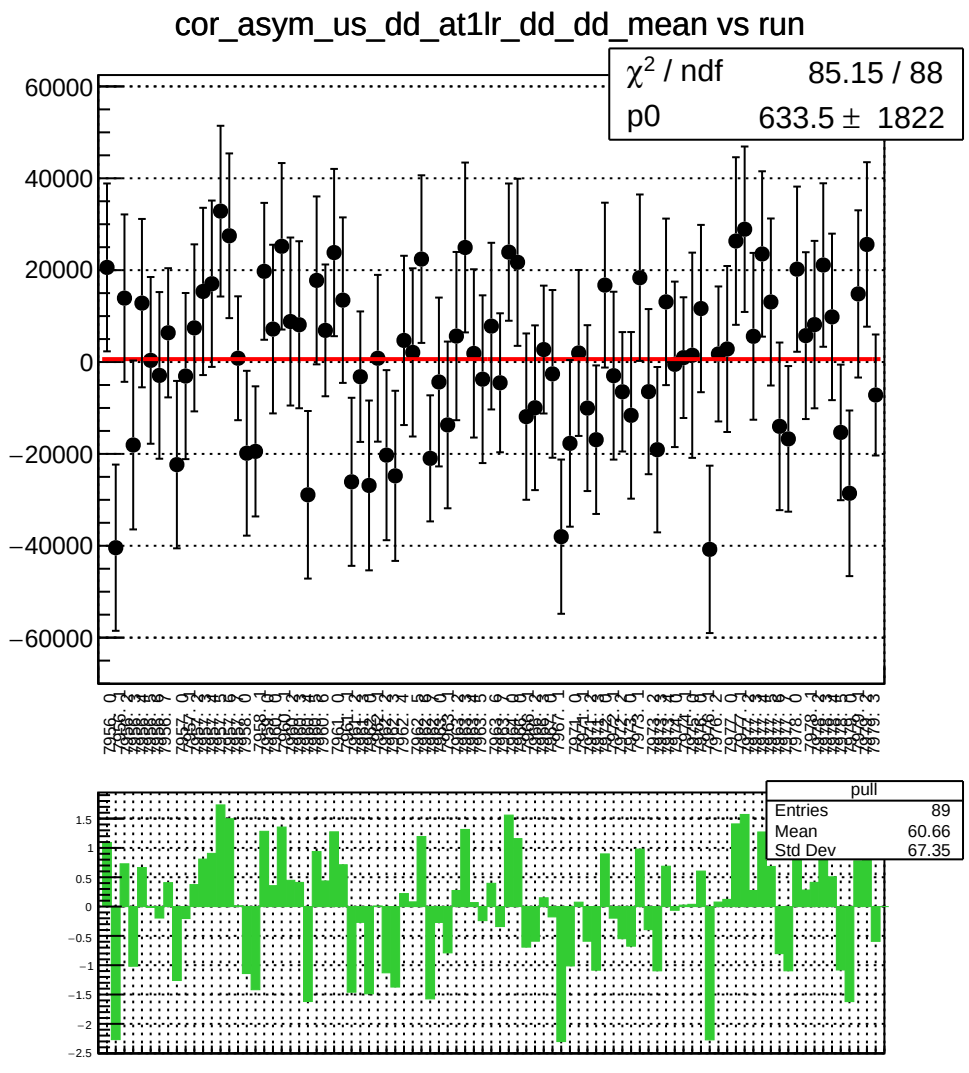

pull1D
Entries 89
Mean 0.01391
Std Dev 0.978

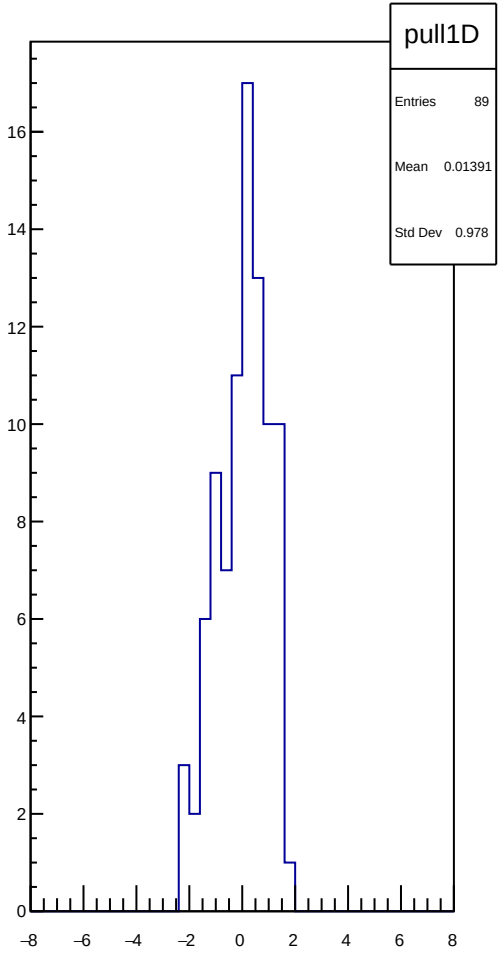

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 126.1 / 88
p0 1724 ± 1.289
1780
1760
1740
1720
1700
1680

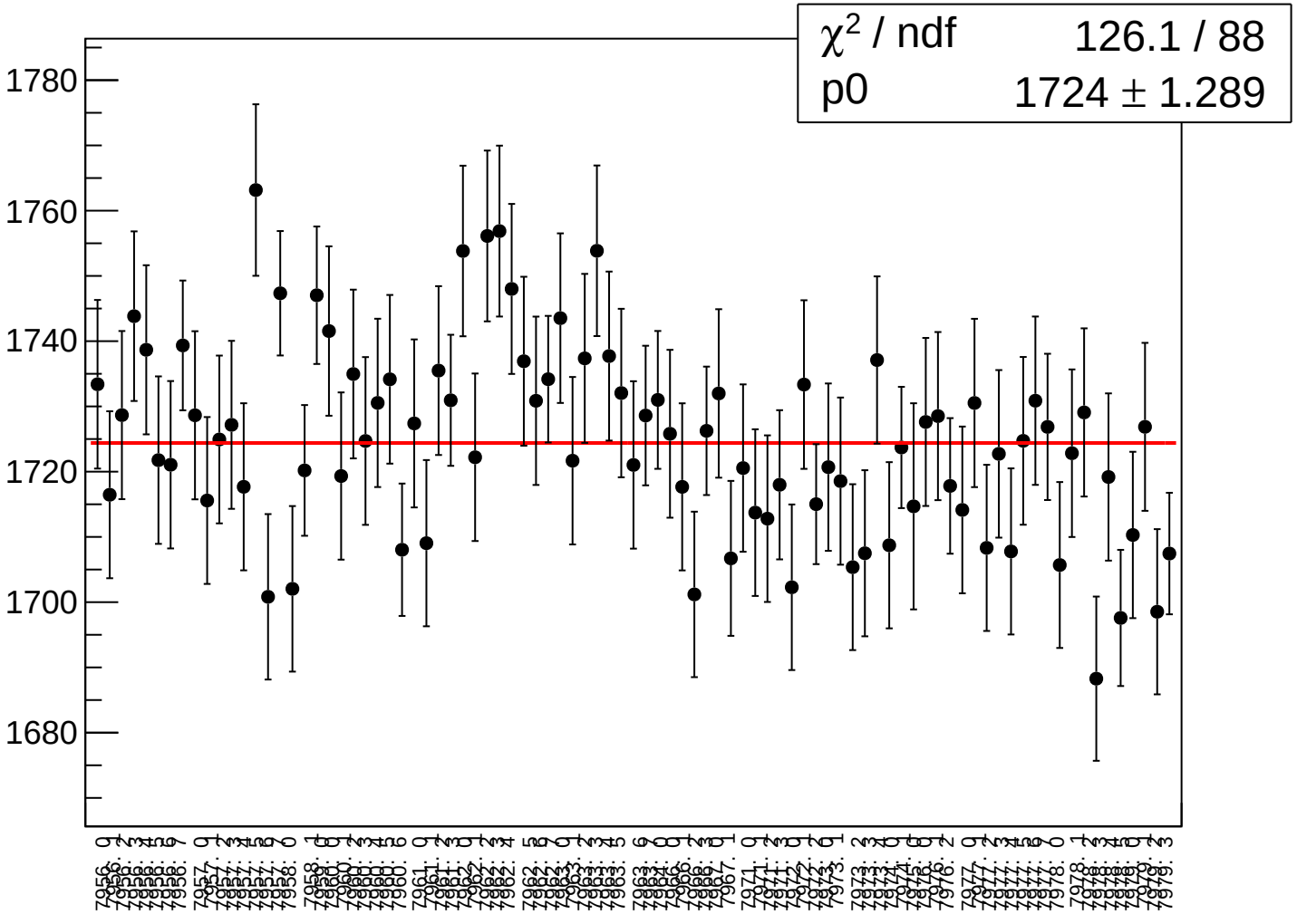

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 120.3 / 88
p0 2245 ± 2100
pull
Entries 89
Mean 4155
Std Dev 0

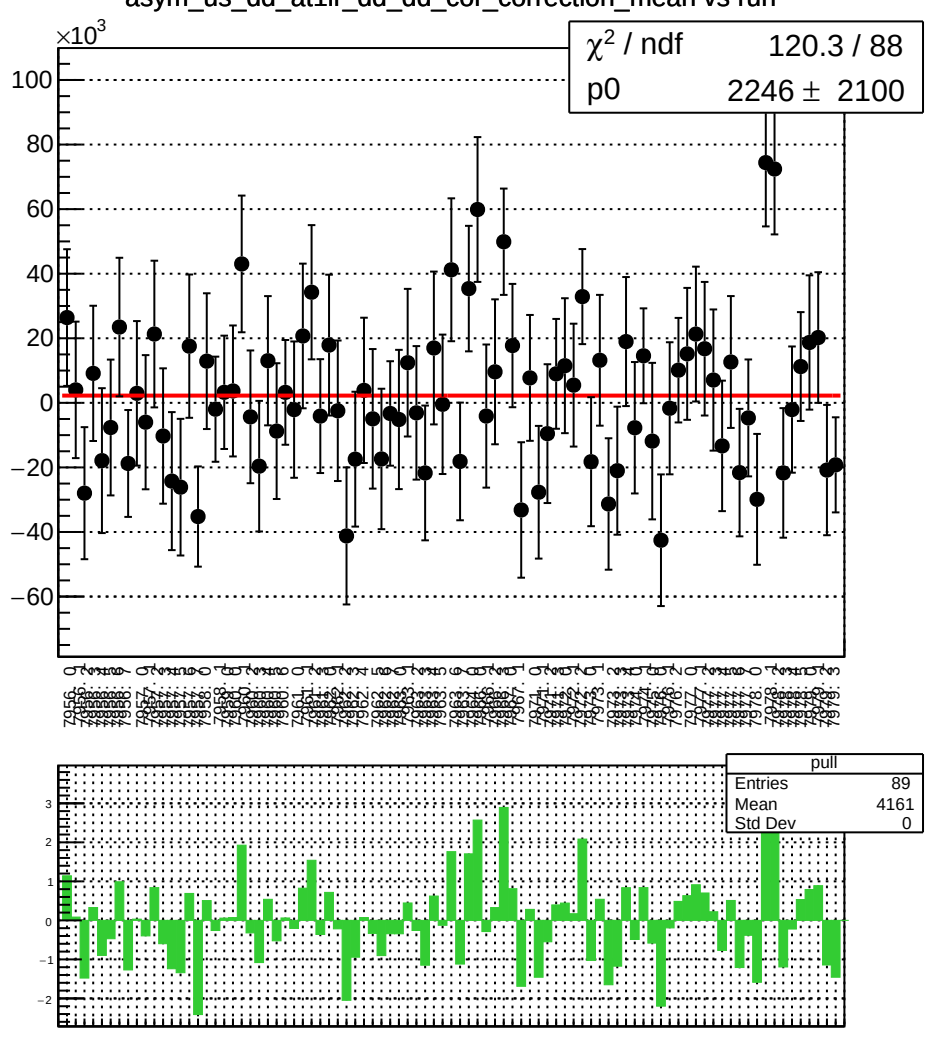

pull1D
Entries 89
Mean 0.0007358
Std Dev 1.163

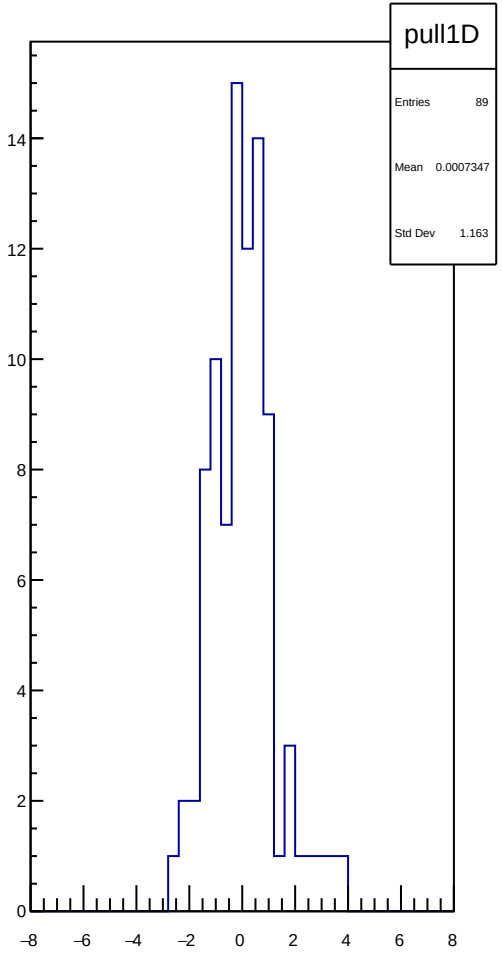

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3766 / 88
p0 1985 ± 1.485
2300
2200
2100
2000
1900
1800

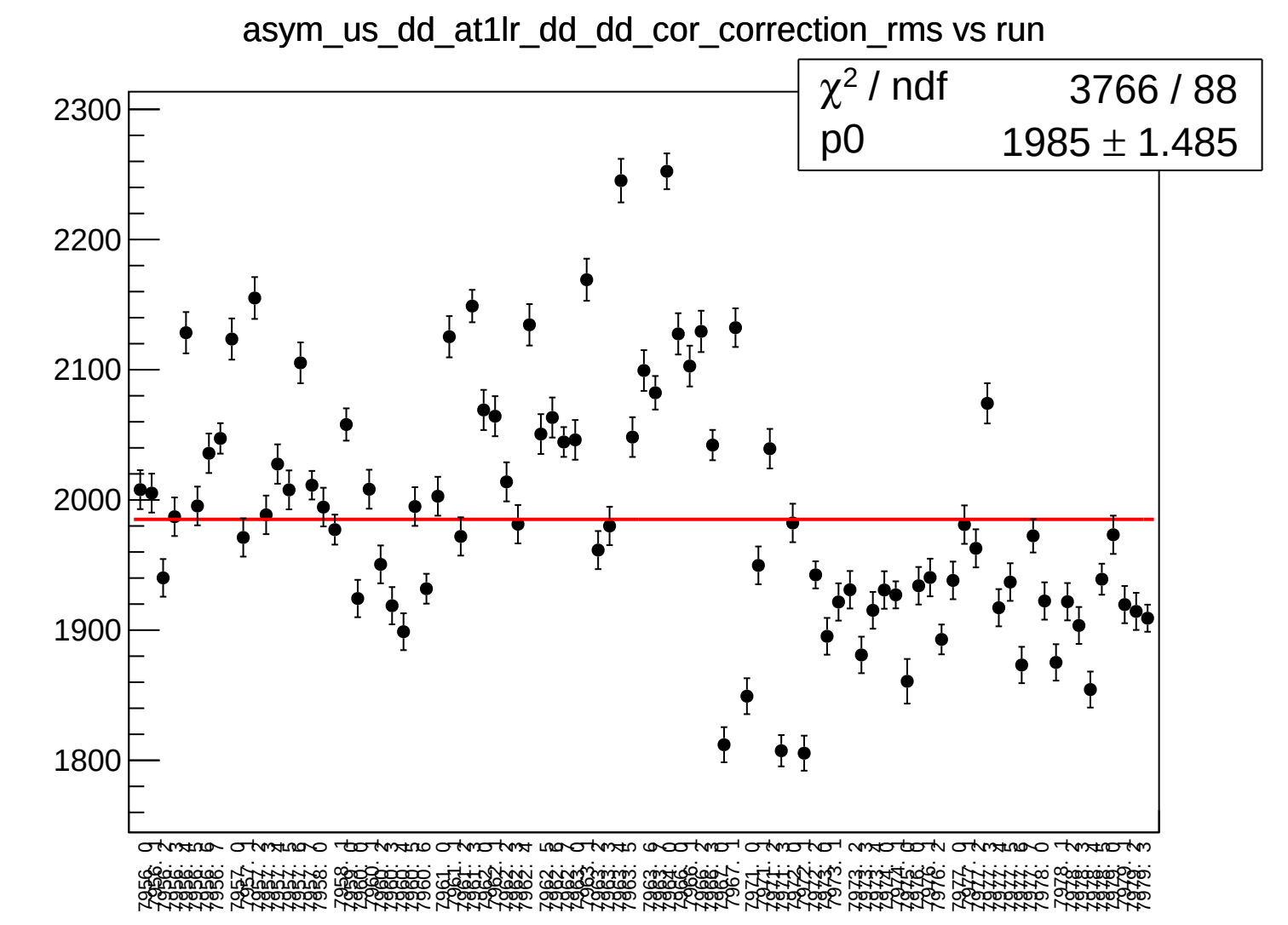

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 85.15 / 88
p0 633.5 ± 1822
pull
Entries 89
Mean 60.66
Std Dev 67.35

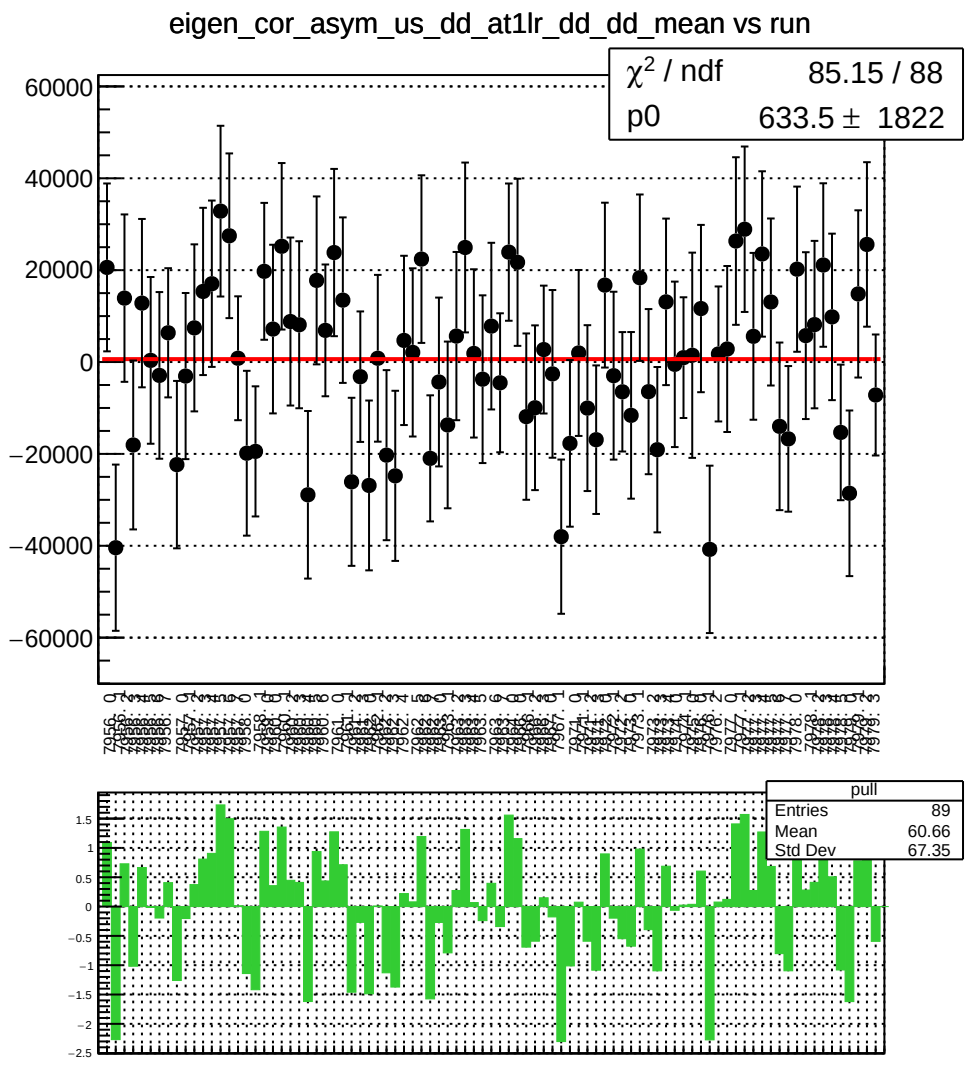

pull1D
Entries 89
Mean 0.01391
Std Dev 0.978

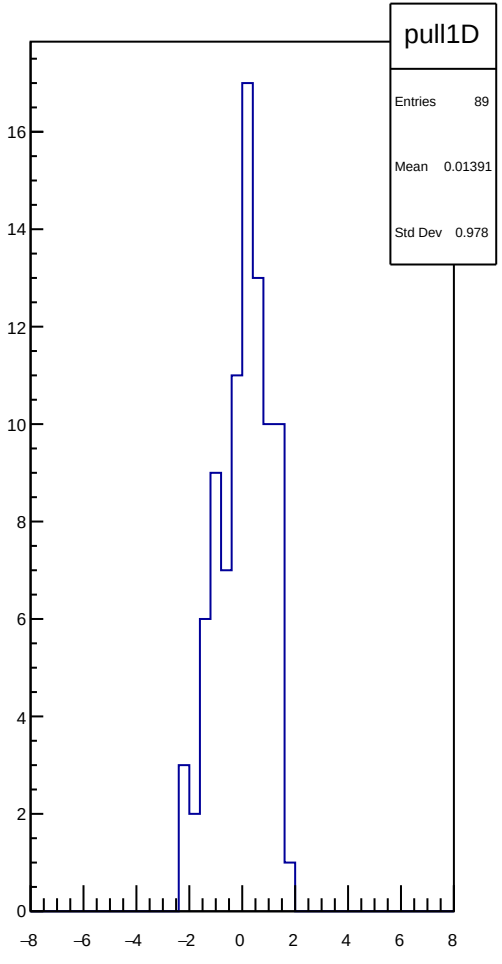

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 126.1 / 88
p0 1724 ± 1.289
1780
1760
1740
1720
1700
1680

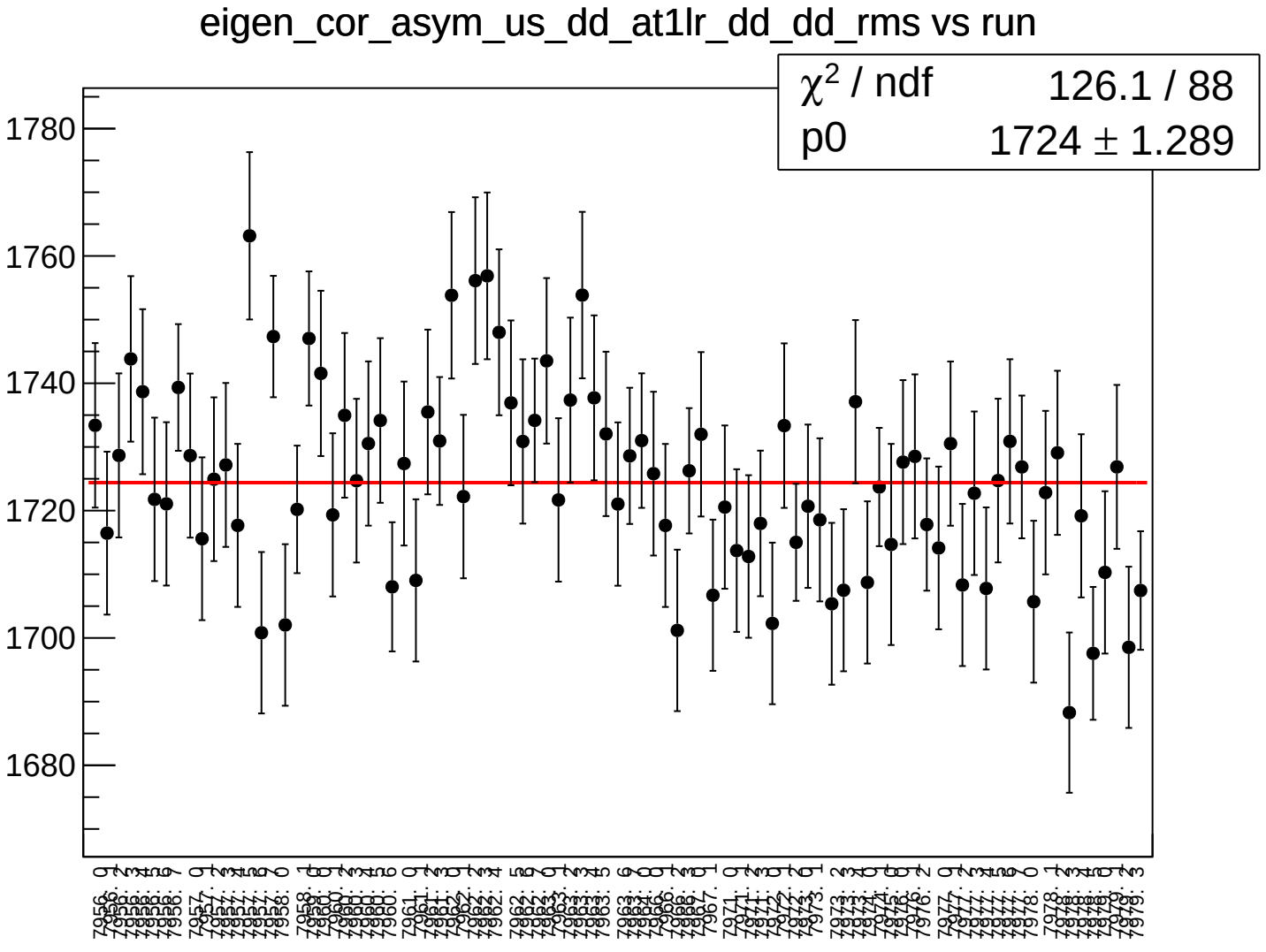

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 120.3 / 88
p0 2246 ± 2100
pull
Entries 89
Mean 4161
Std Dev 0

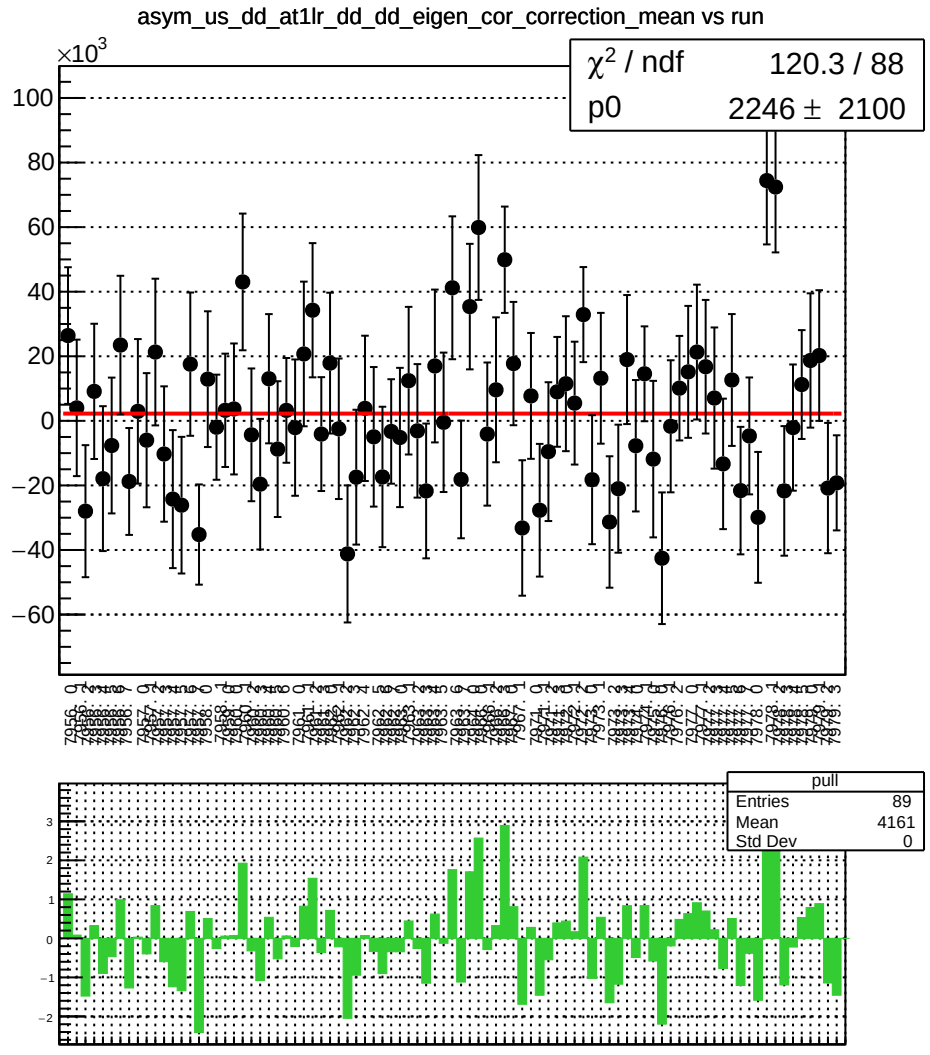

pull1D
Entries 89
Mean 0.0007347
Std Dev 1.163

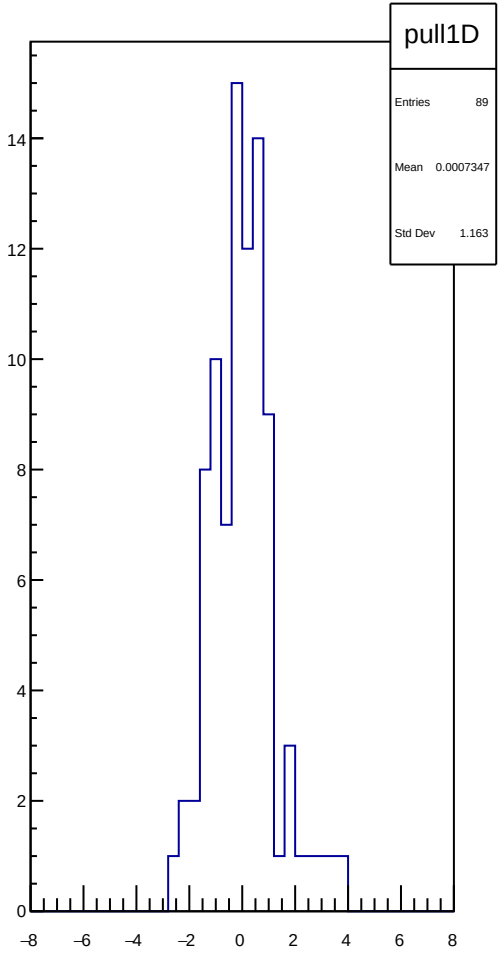

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3766 / 88
p0 1985 ± 1.485
2300
2200
2100
2000
1900
1800

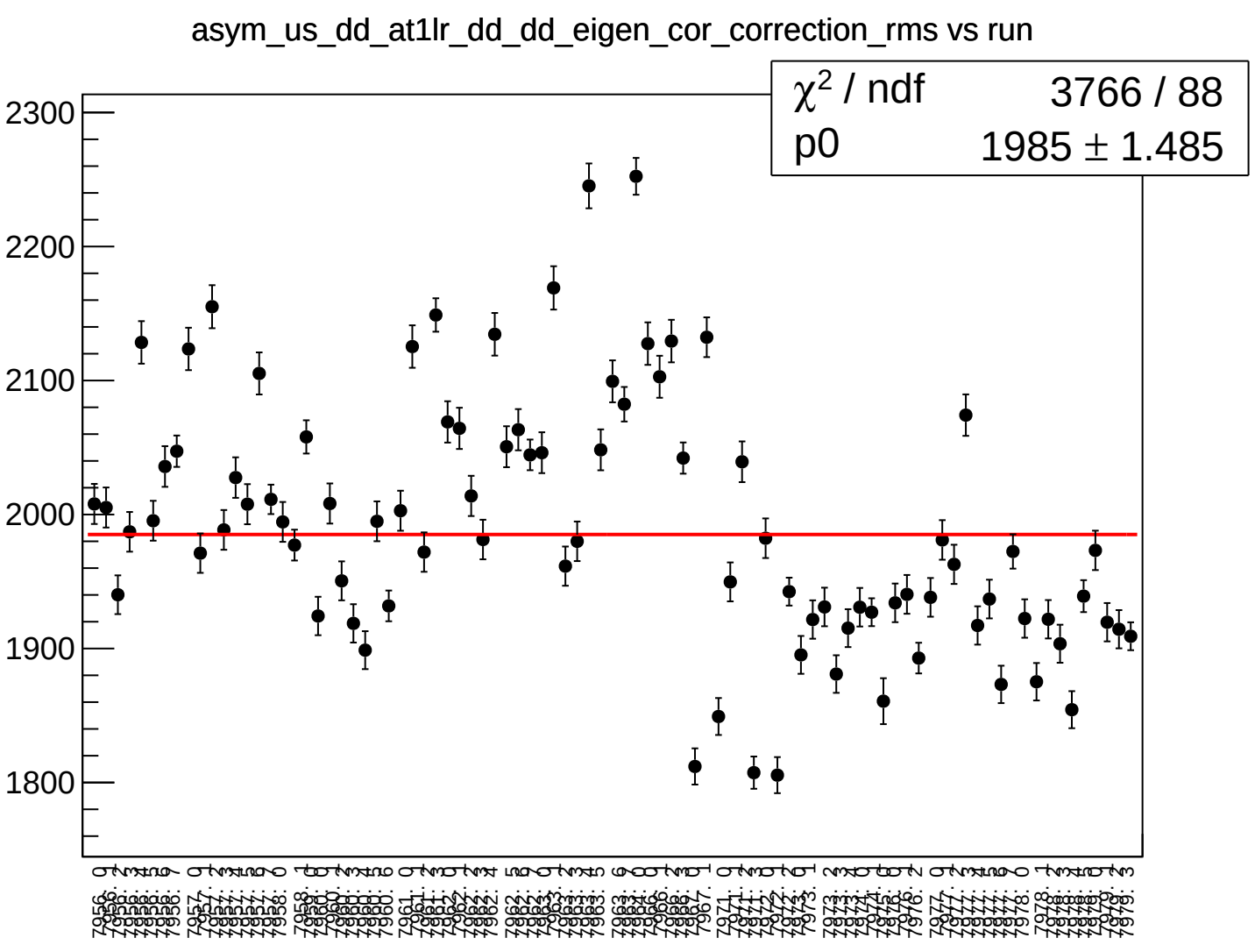

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 85.15 / 88
p0 633.5 ± 1822
pull
Entries 89
Mean 60.66
Std Dev 67.35

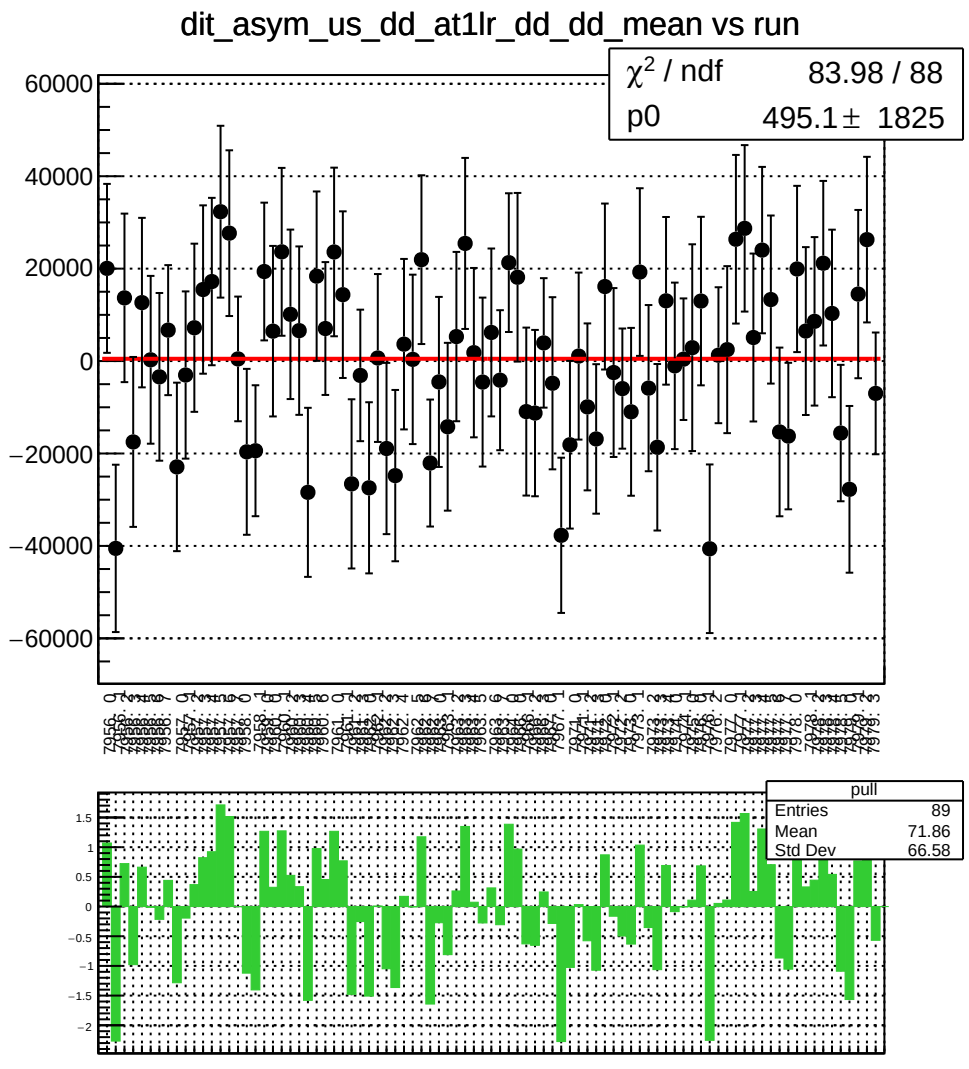

pull1D
Entries 89
Mean 0.01391
Std Dev 0.978

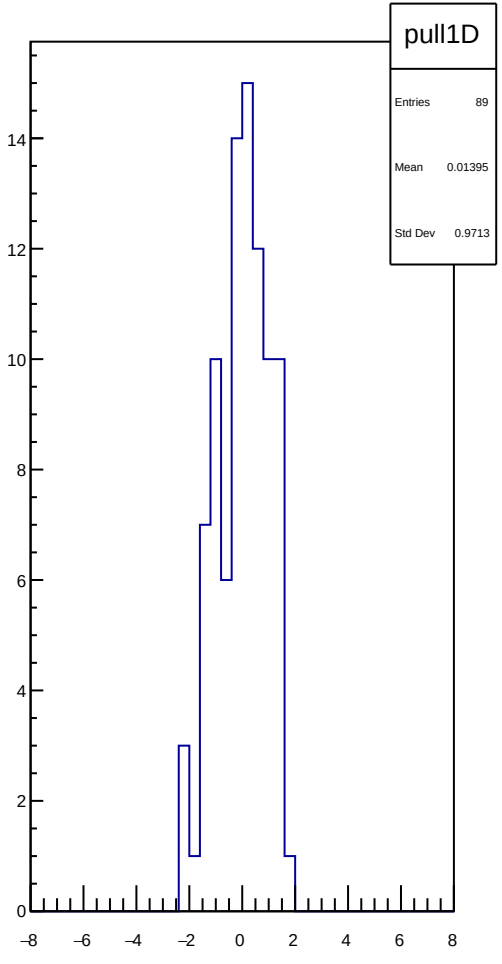

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 126.1 / 88
p0 1724 ± 1.289
1780
1760
1740
1720
1700
1680

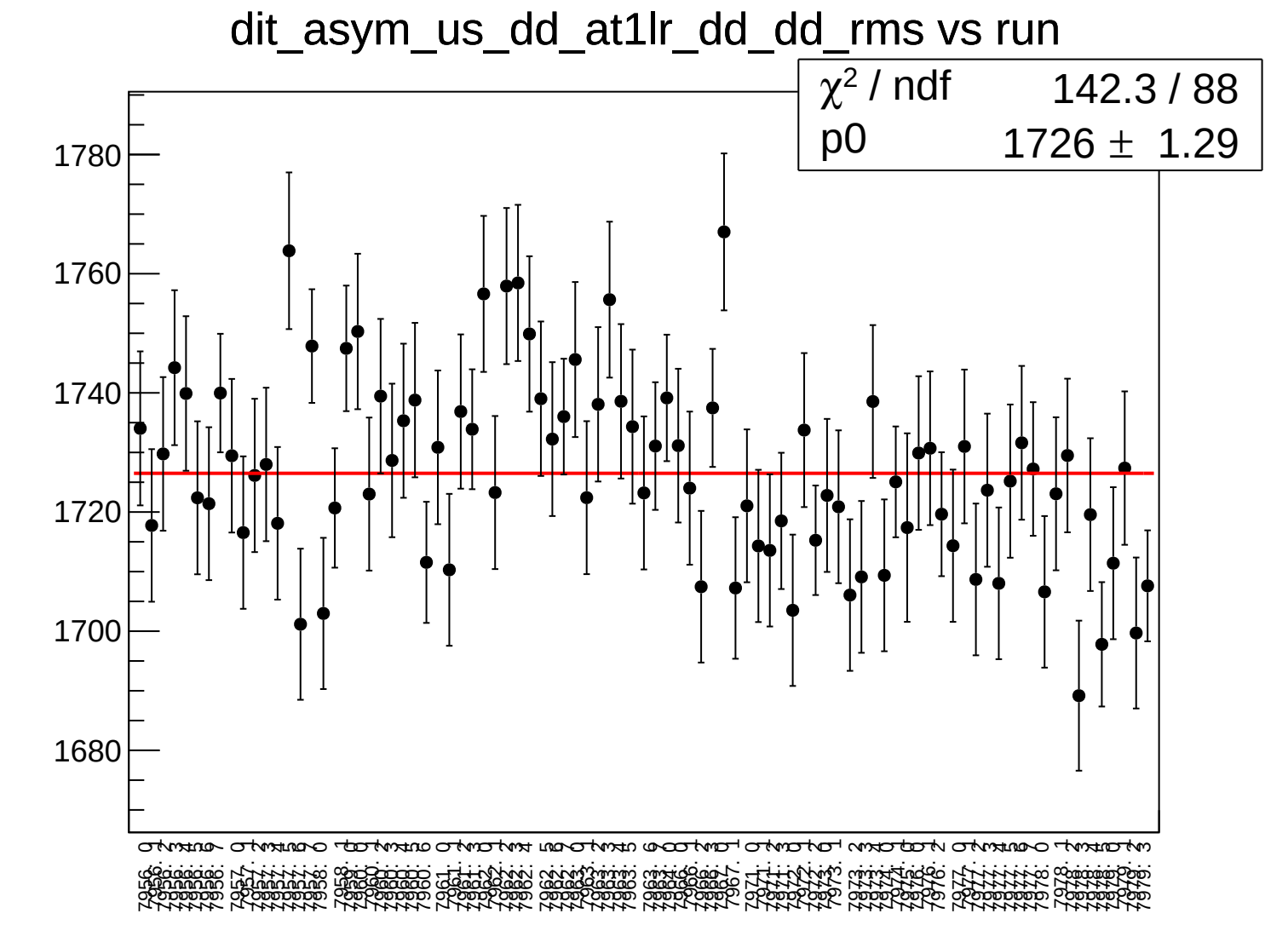

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 120.3 / 88
p0 2246 ± 2100
pull
Entries 89
Mean 4161
Std Dev 0

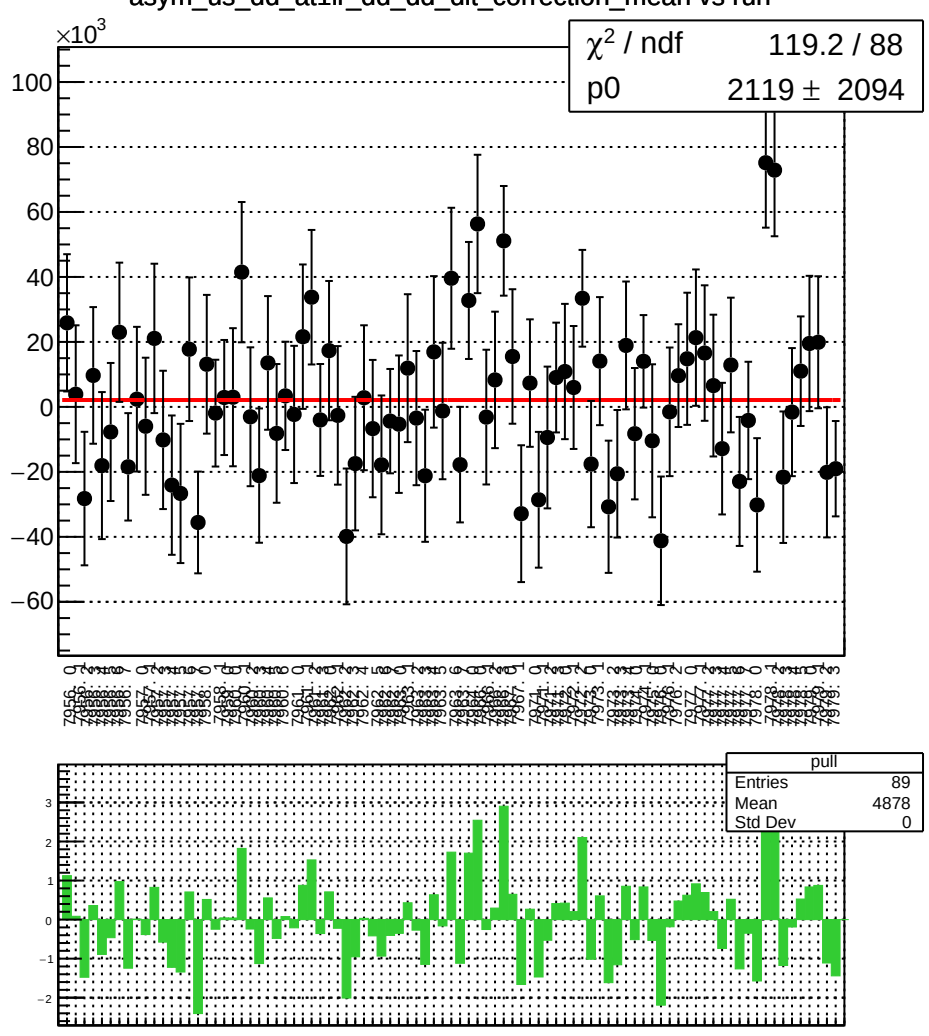

pull1D
Entries 89
Mean 0.0007347
Std Dev 1.163

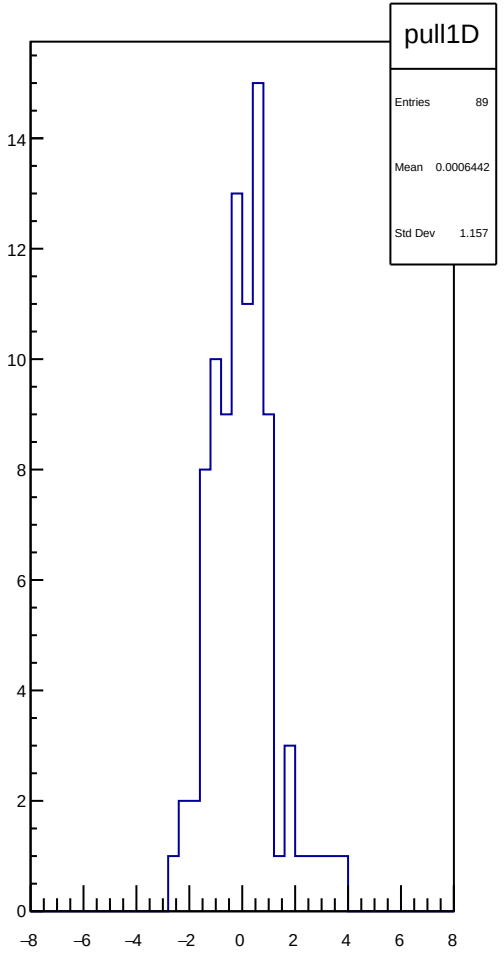

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 3766 / 88
p0 1985 ± 1.485
2300
2200
2100
2000
1900
1800

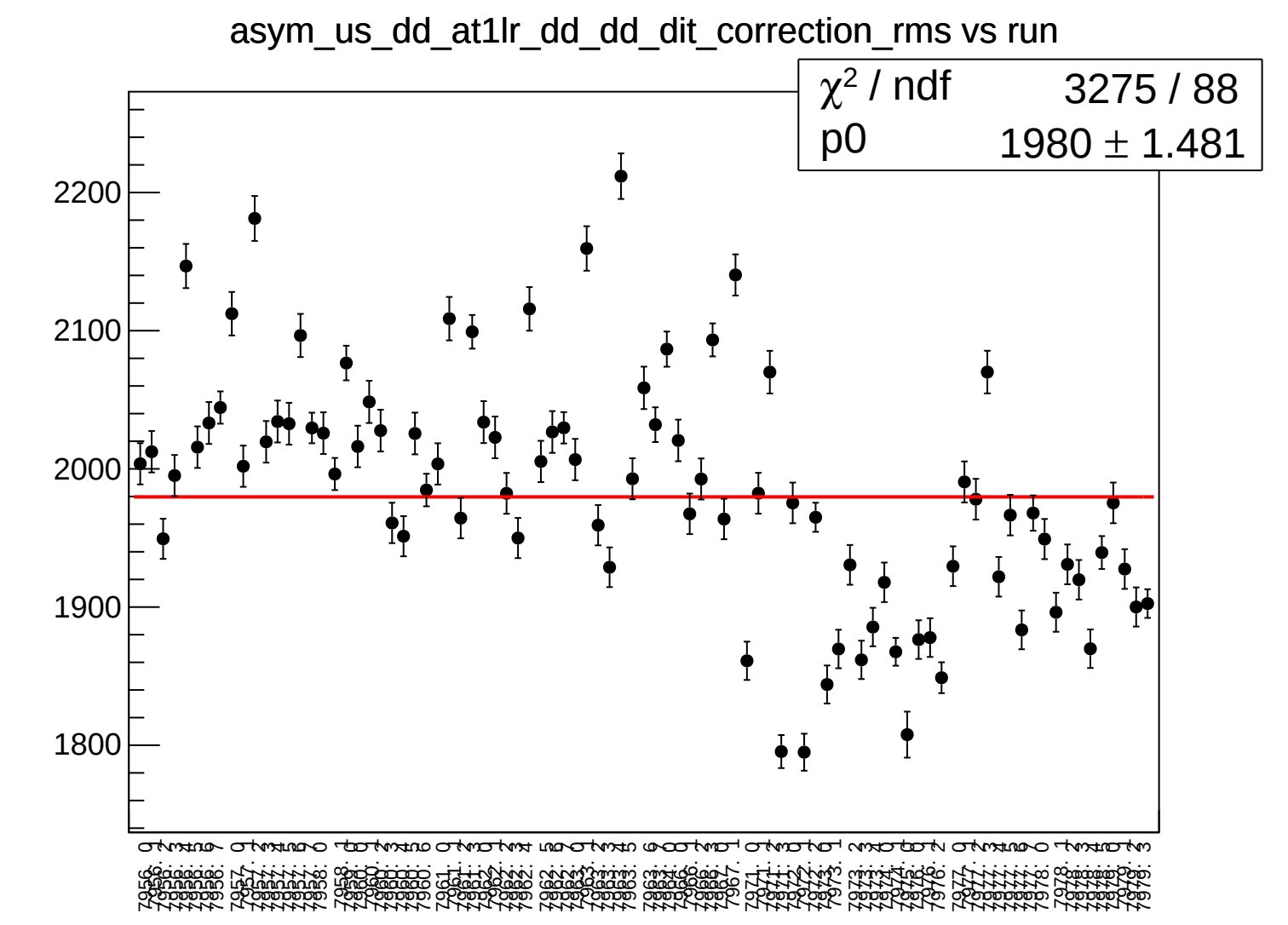

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 83.98 / 88
p0 495.1 ± 1825
pull
Entries 89
Mean 71.86
Std Dev 66.58

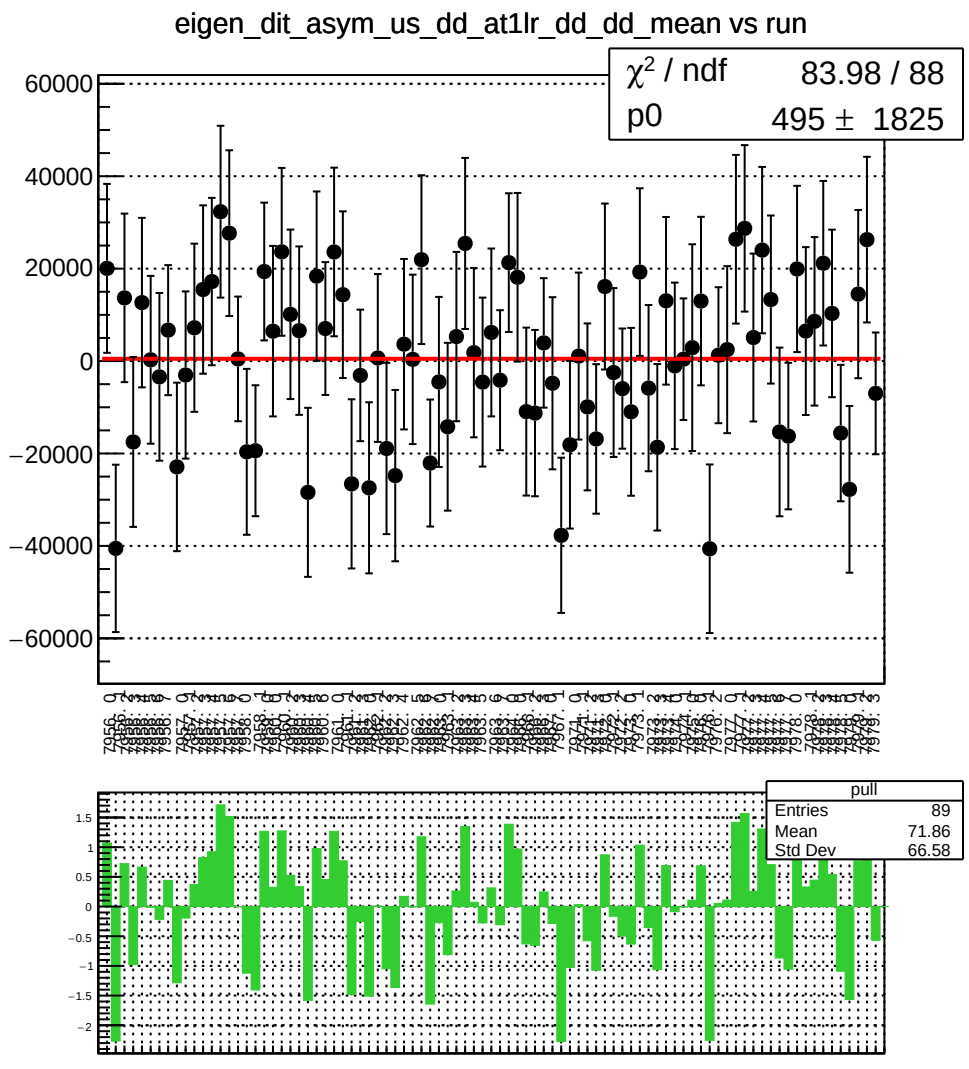

pull1D
Entries 89
Mean 0.01395
Std Dev 0.9713

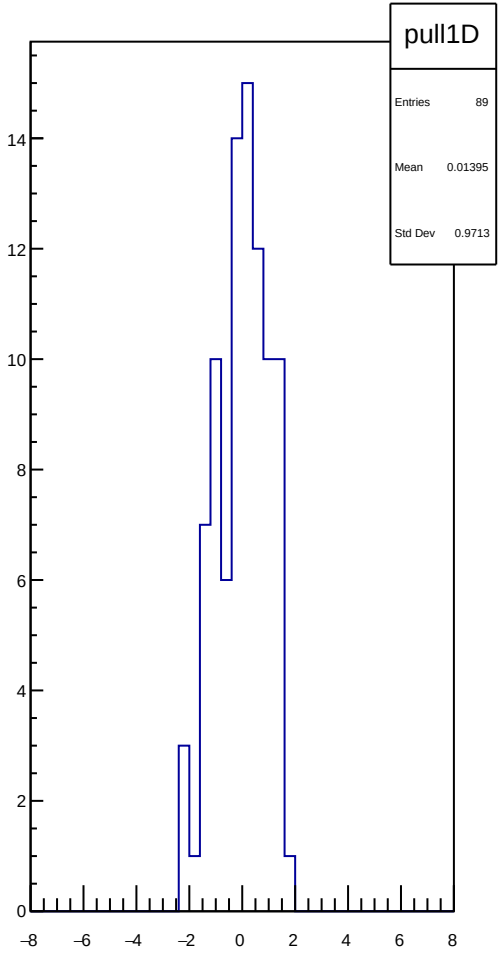

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 142.3 / 88
p0 1726 ± 1.29
1780
1760
1740
1720
1700
1680

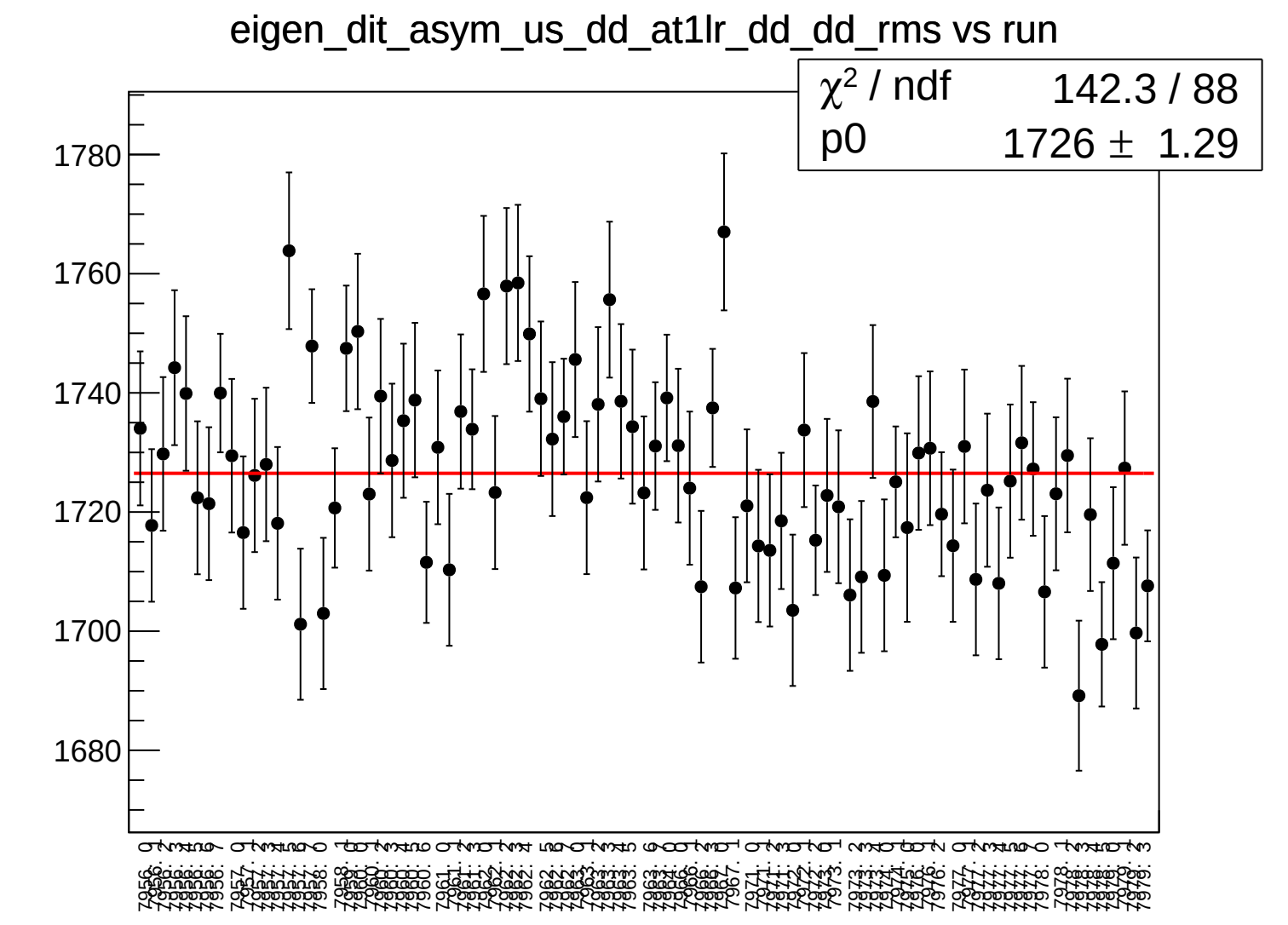

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 119.2 / 88
p0 2119 ± 2094
pull
Entries 89
Mean 4878
Std Dev 0

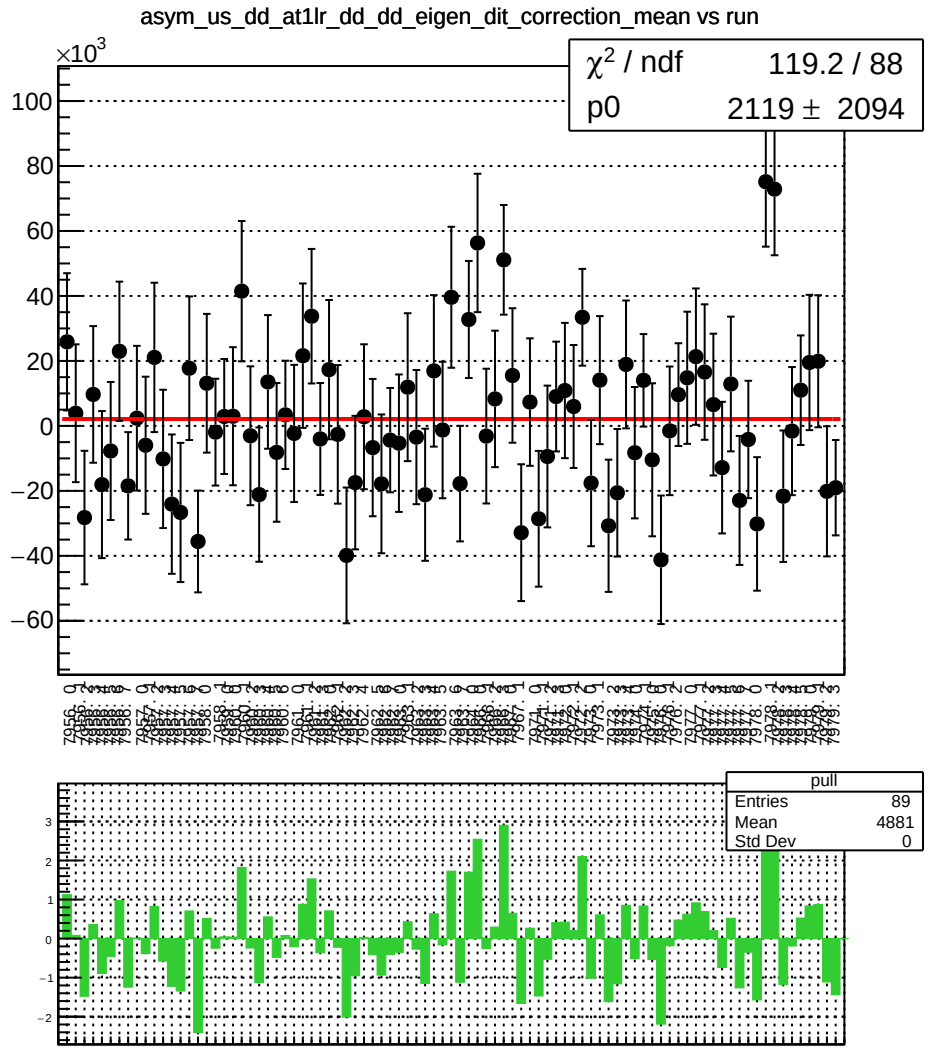

pull1D
Entries 89
Mean 0.0006442
Std Dev 1.157

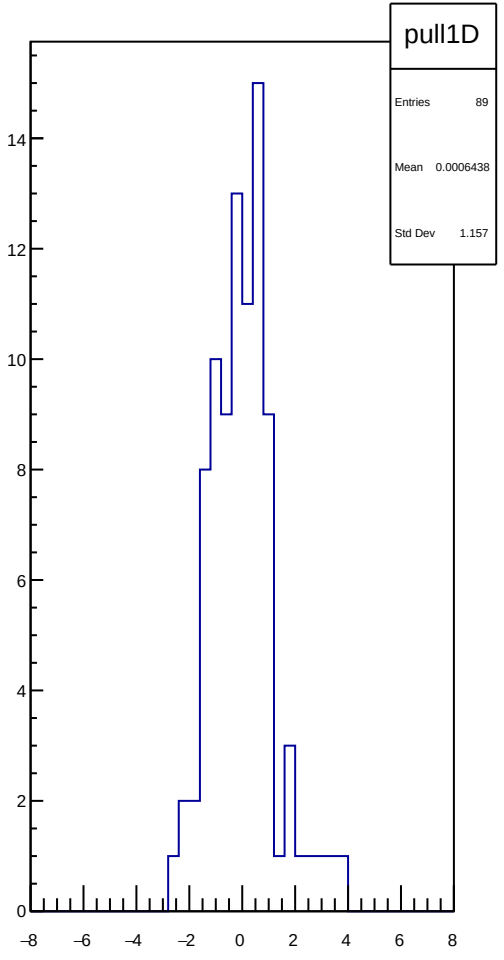

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3275 / 88
p0 1980 ± 1.481
2200
2100
2000
1900
1800

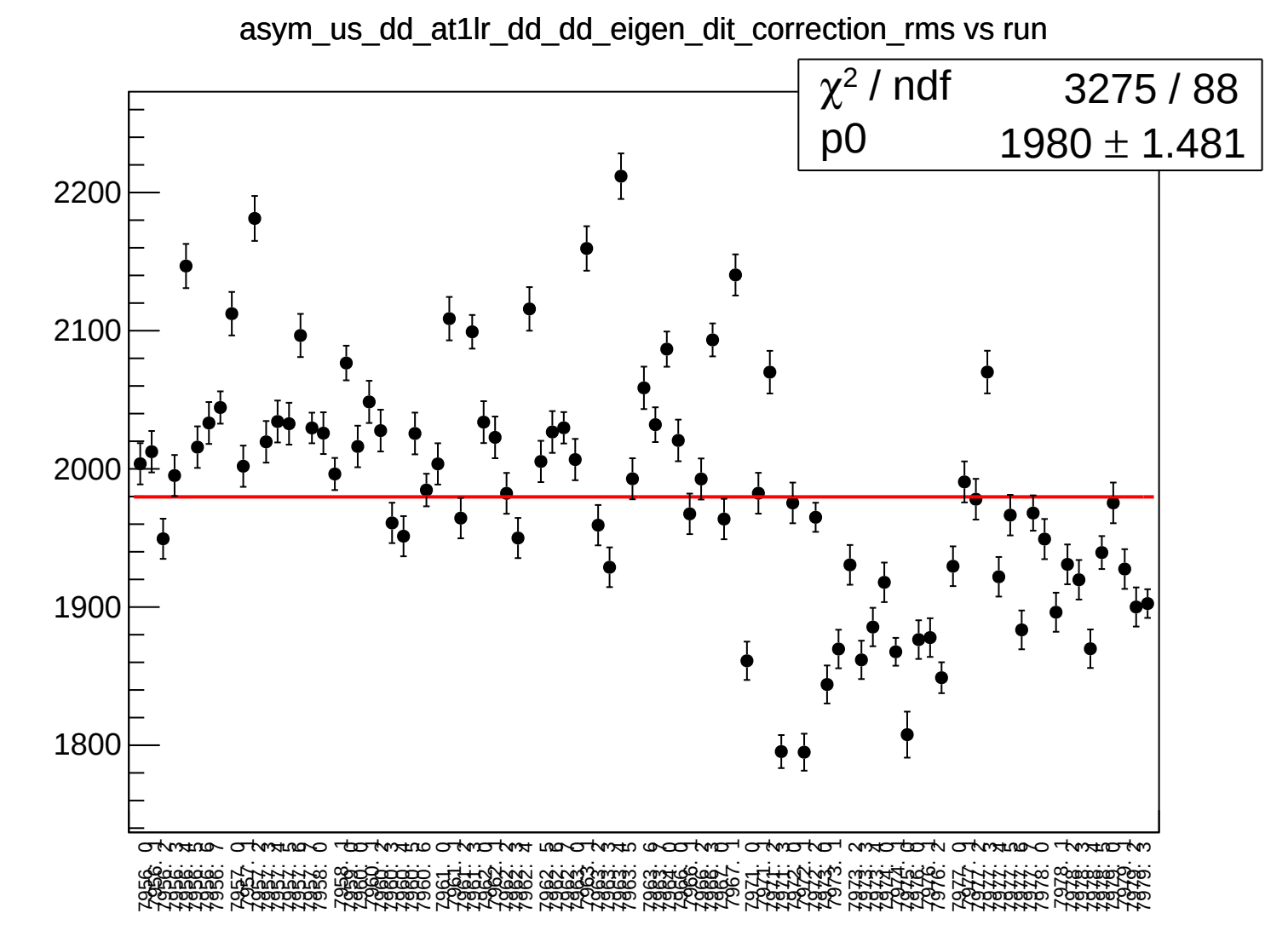

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 83.98 / 88
p0 495 ± 1825
pull
Entries 89
Mean 71.86
Std Dev 66.58

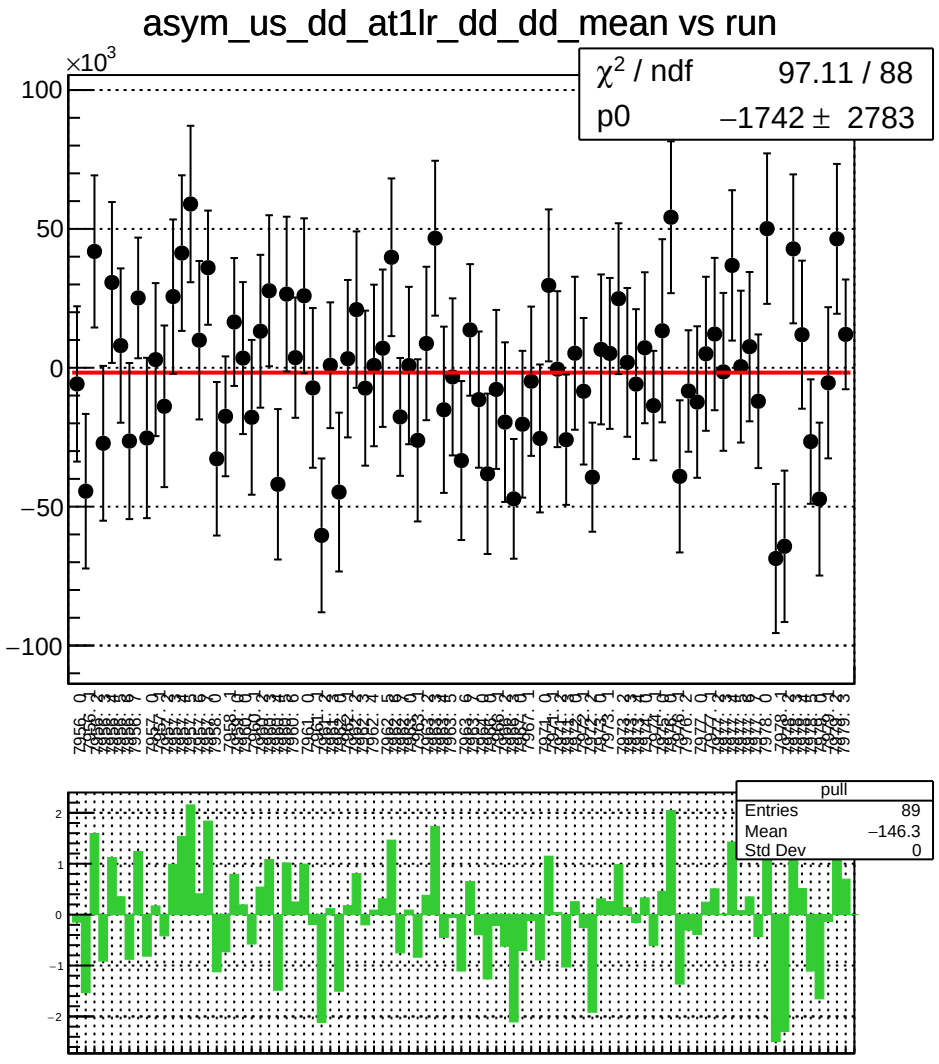

pull1D
Entries 89
Mean 0.01395
Std Dev 0.9713

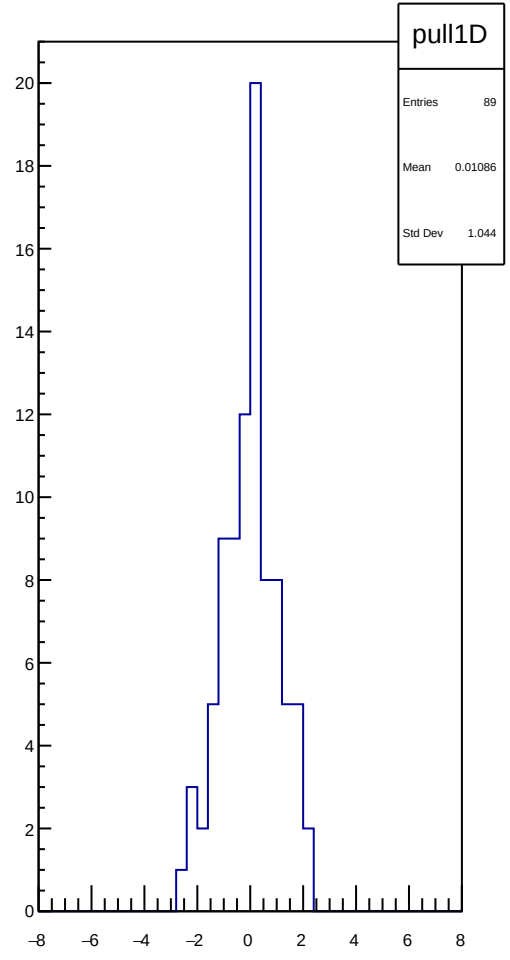

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 142.3 / 88
p0 1726 ± 1.29
1780
1760
1740
1720
1700
1680

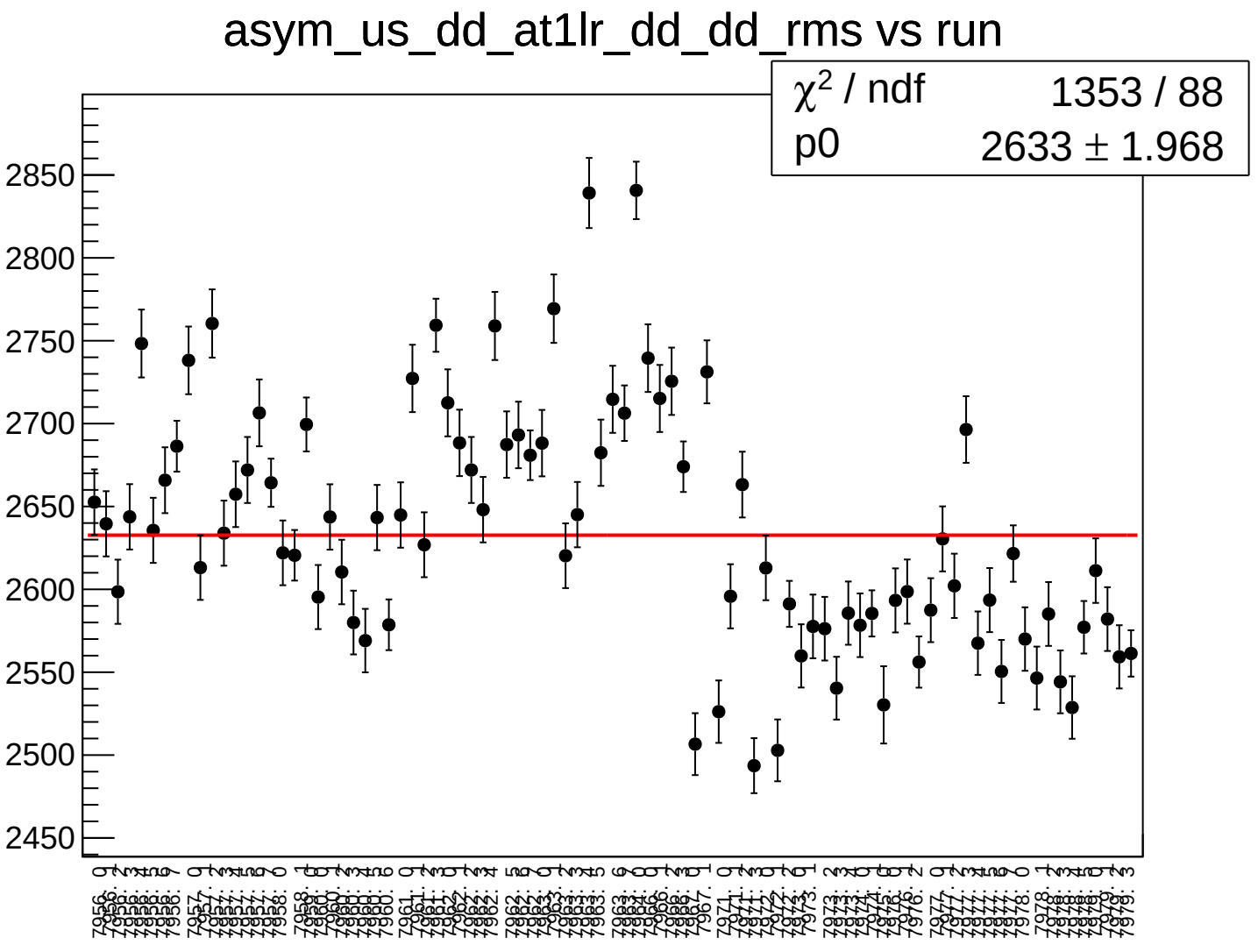

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 119.2 / 88
p0 2119 ± 2094
pull
Entries 89
Mean 4881
Std Dev 0

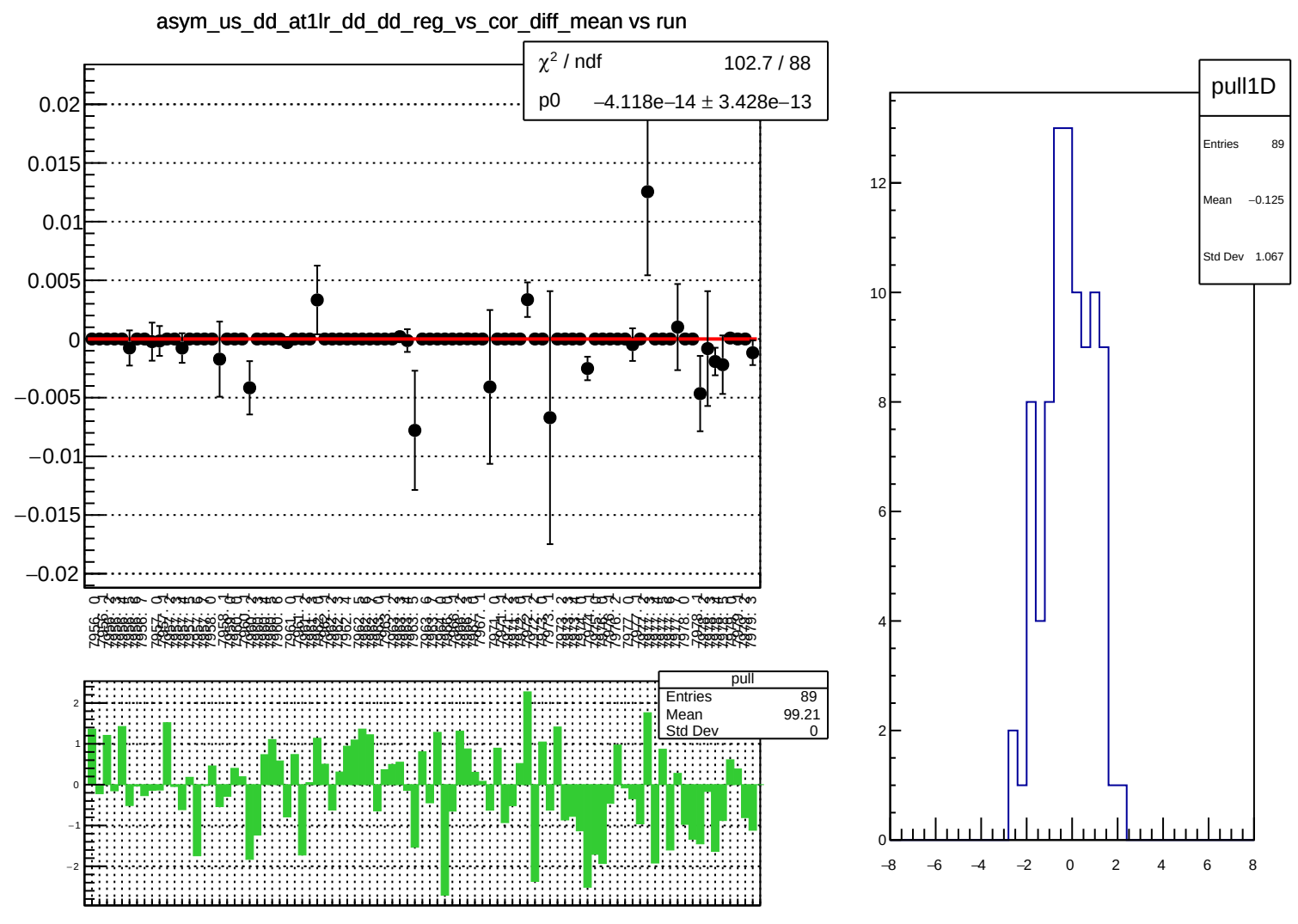

pull1D
Entries 89
Mean 0.0006438
Std Dev 1.157

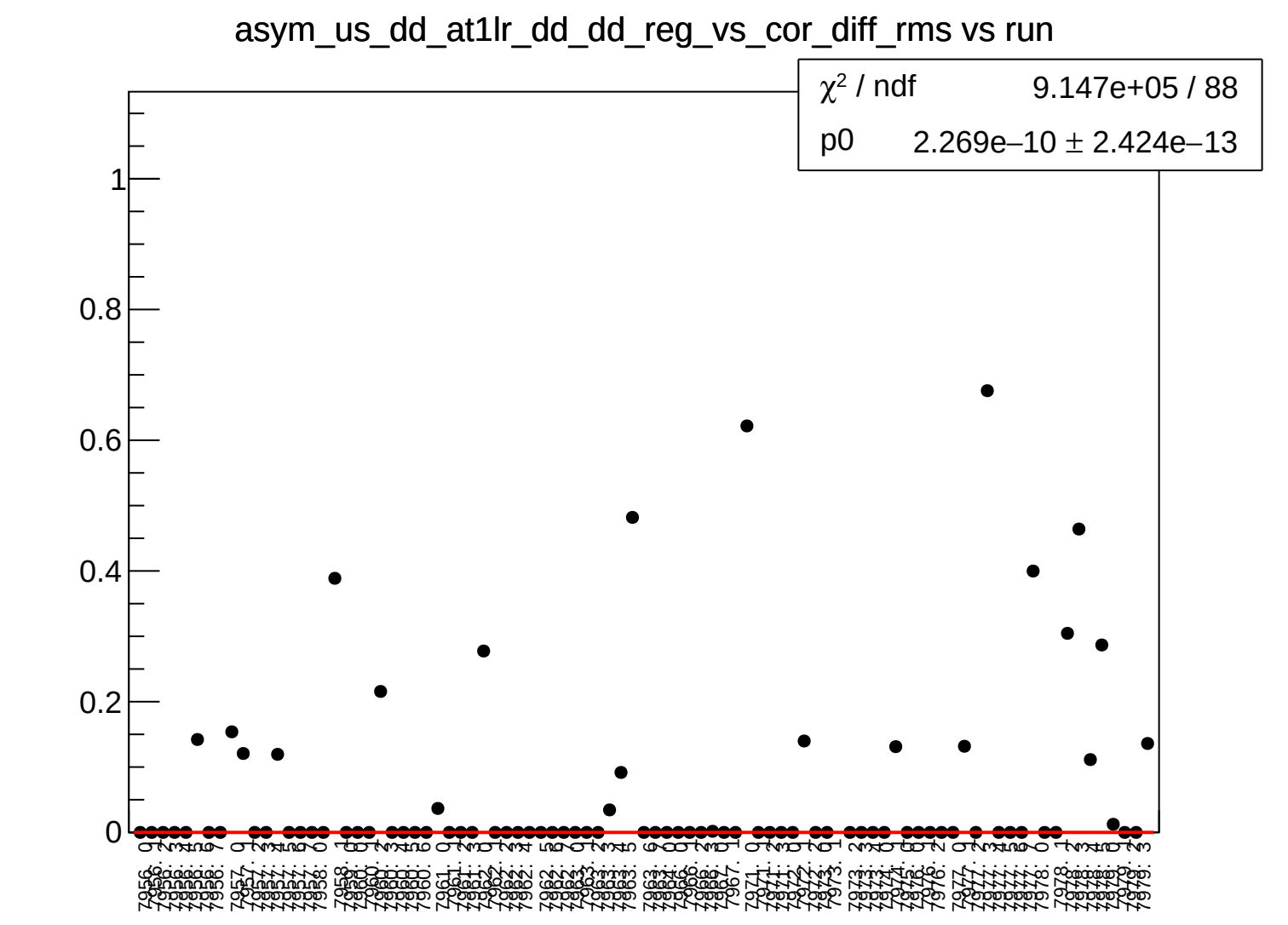

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3275 / 88
p0 1980 ± 1.481
2200
2100
2000
1900
1800

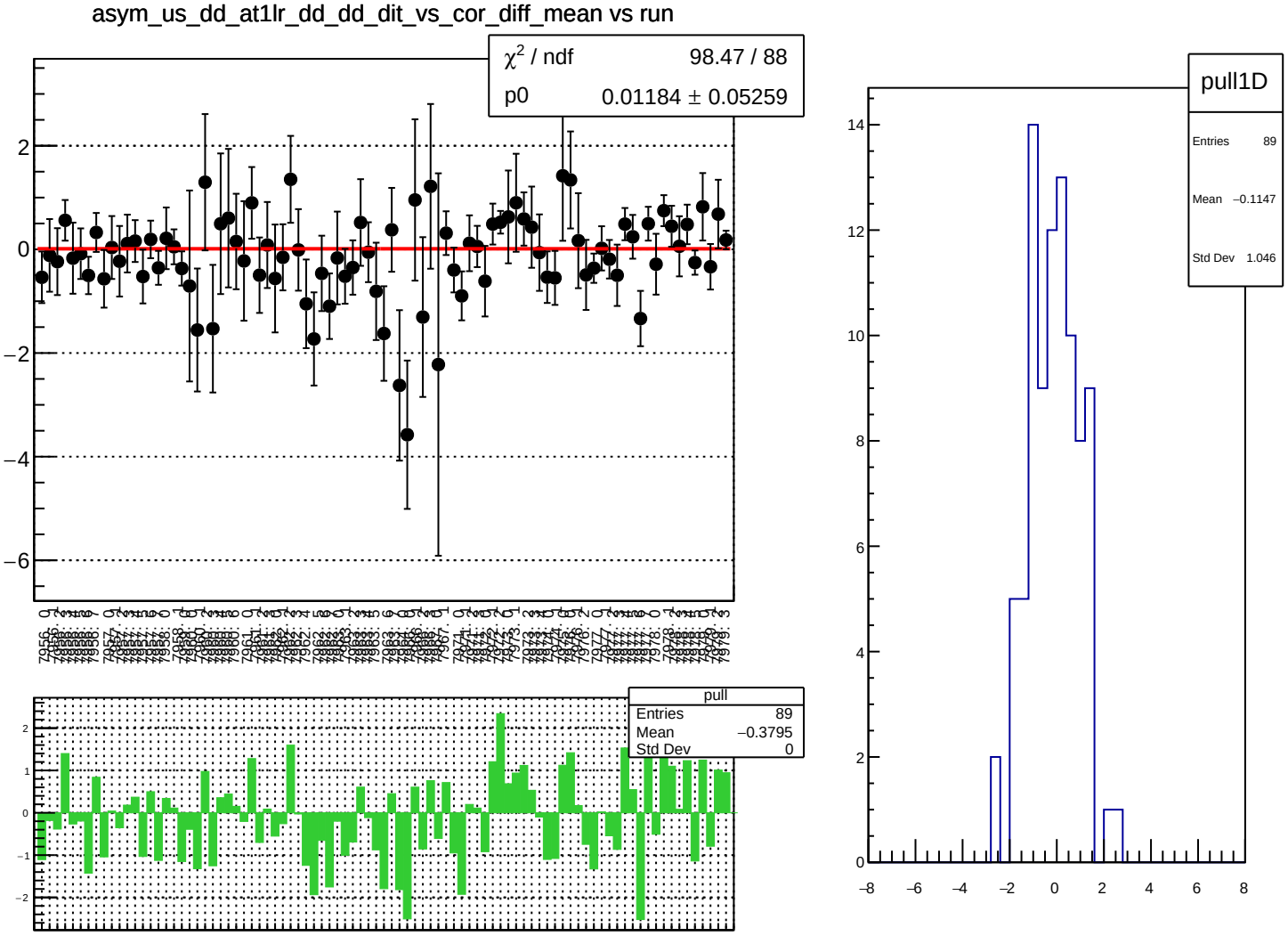

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 97.11 / 88
p0 −1742 ± 2783
100
50
0
−50
−100
pull
Entries 89
Mean −146.3
Std Dev 0
2
1
0
−1
−2

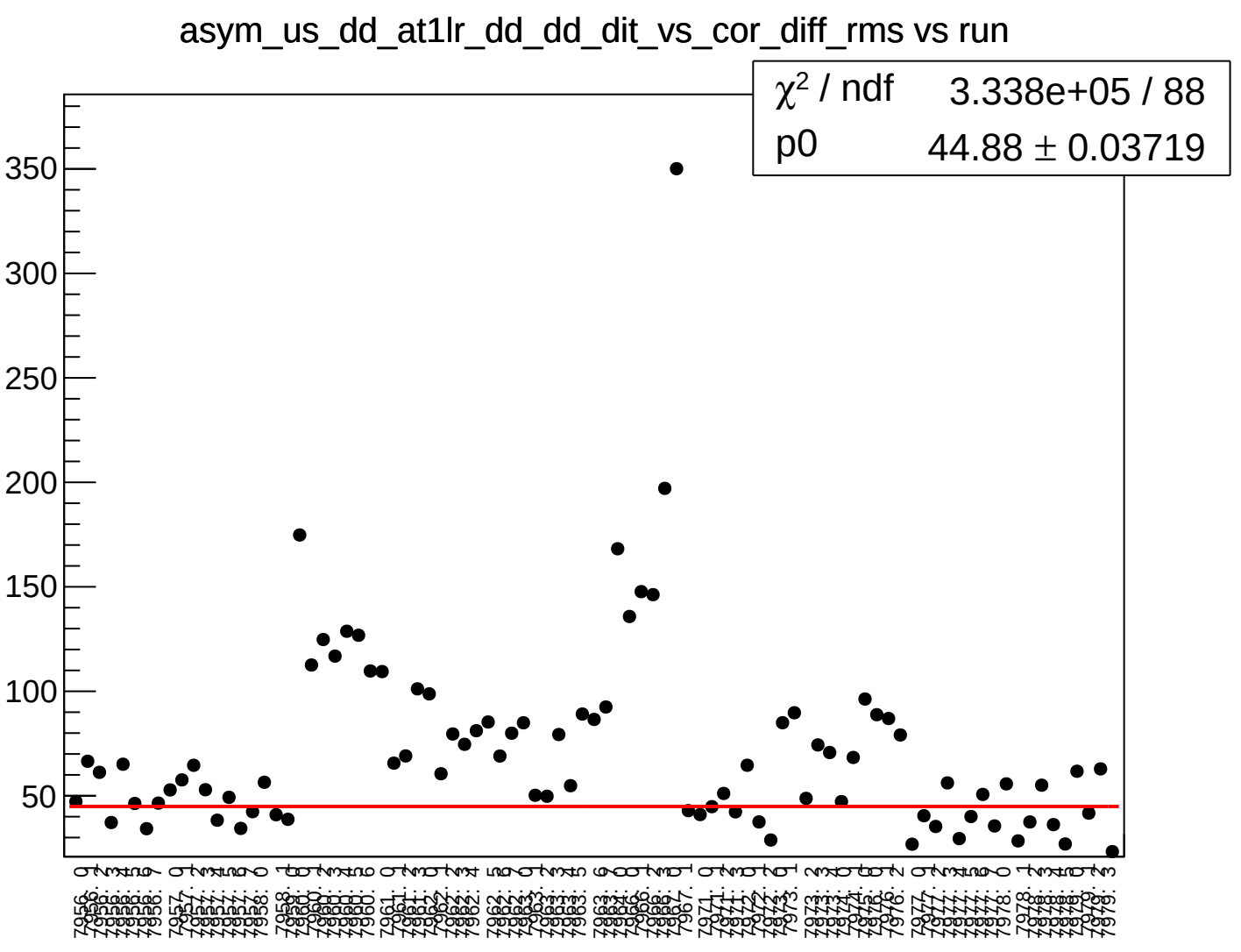

pull1D
Entries 89
Mean 0.01086
Std Dev 1.044
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

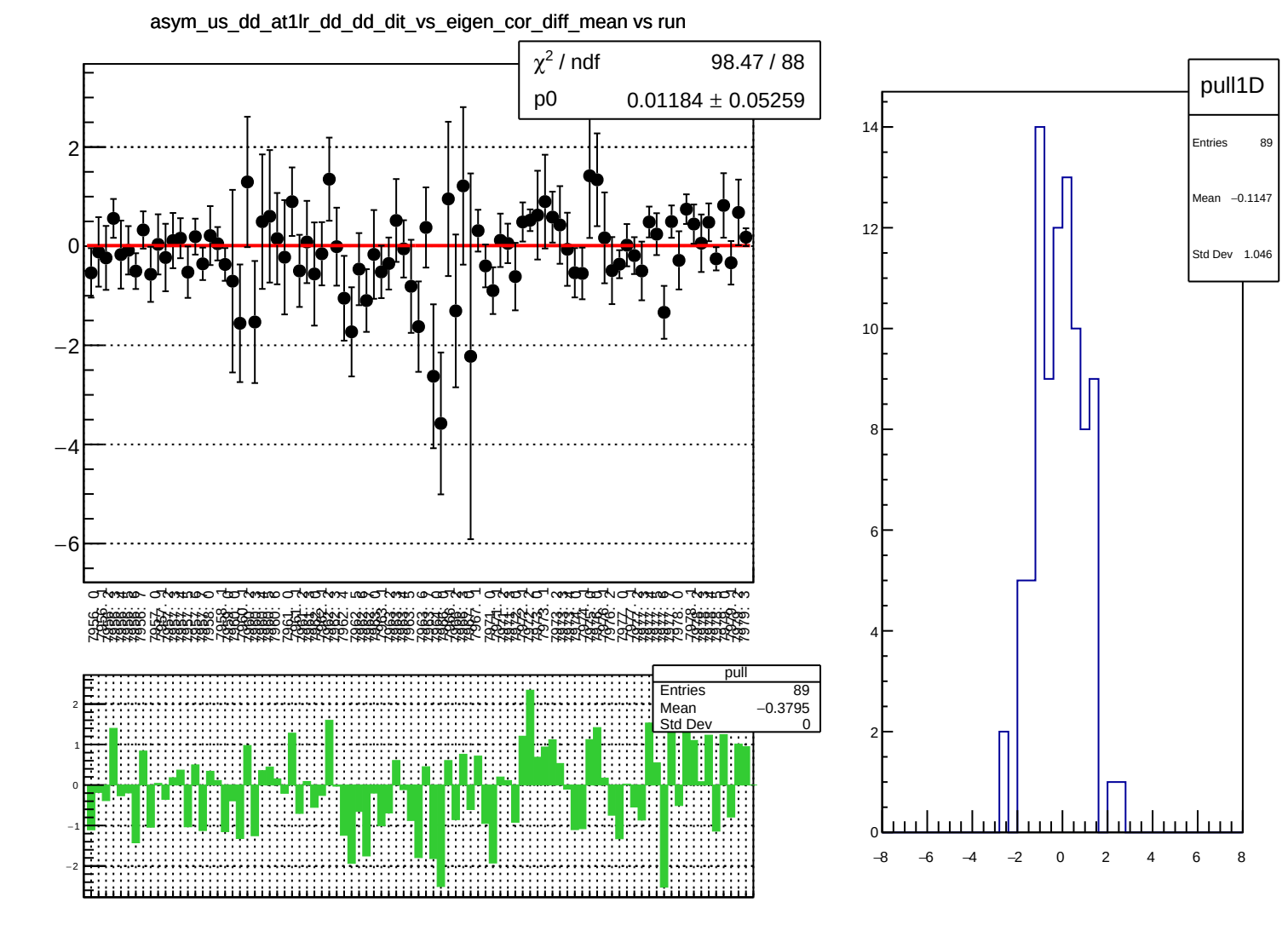

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1353 / 88
p0 2633 ± 1.968
2850
2800
2750
2700
2650
2600
2550
2500
2450

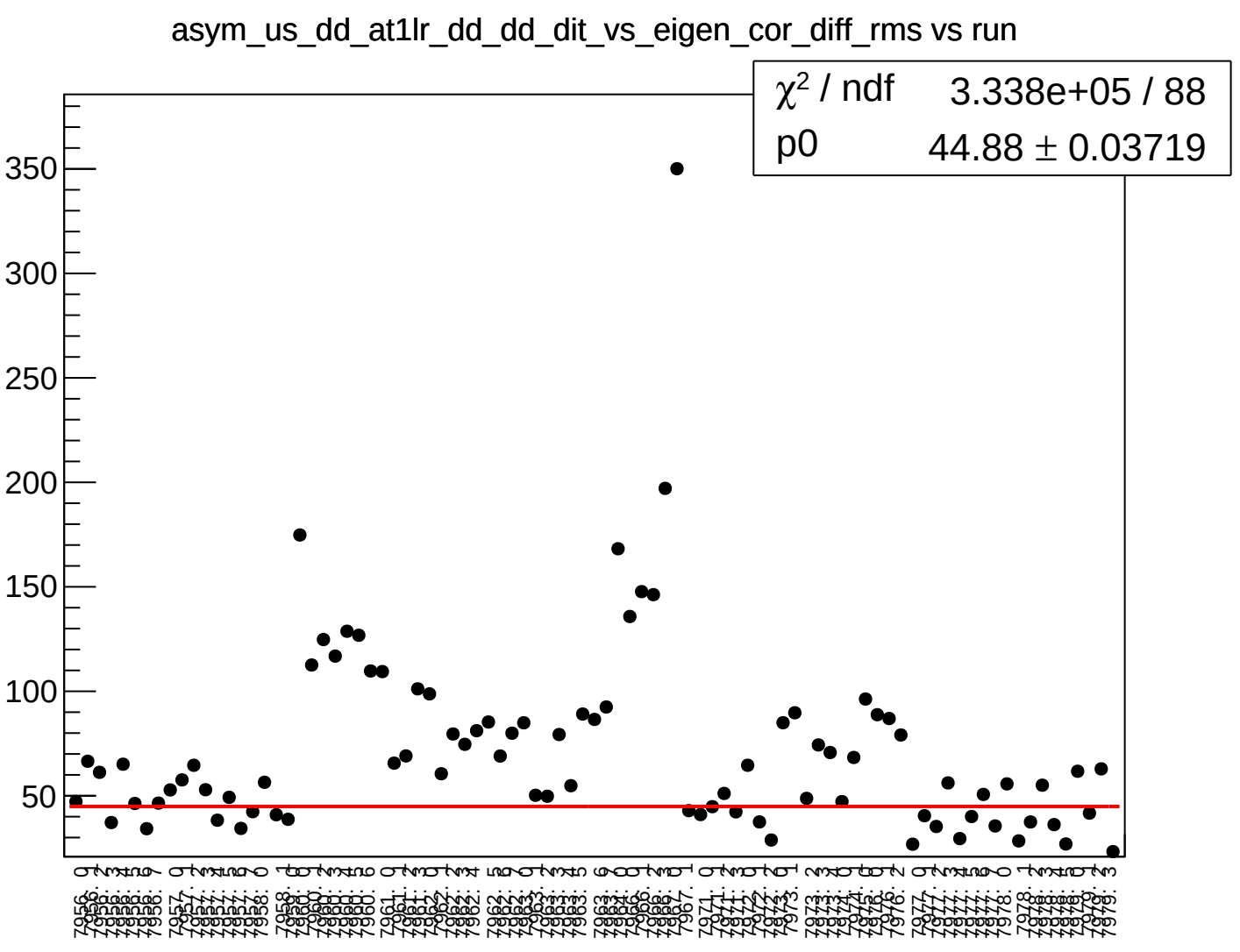

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 88
p0 −4.118e−14 ± 3.428e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 99.21
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.125
Std Dev 1.067
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

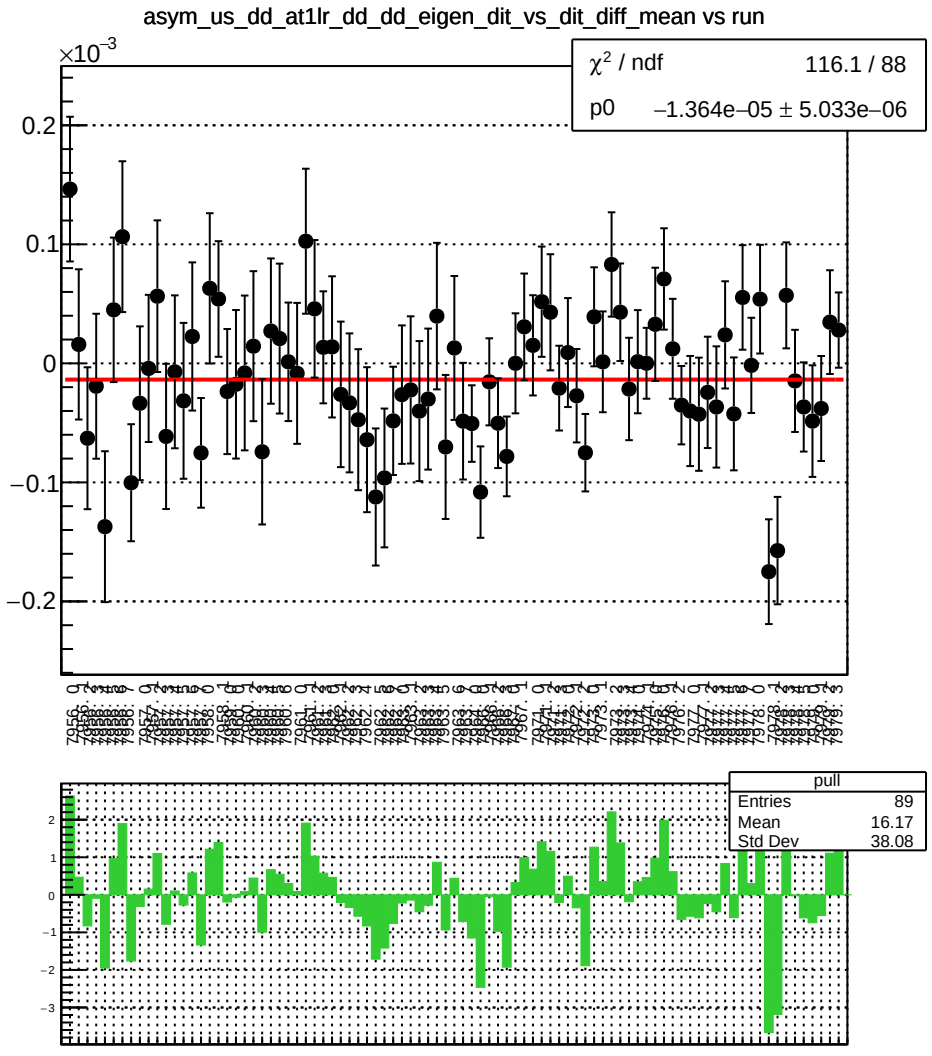

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.147e+05 / 88
p0 2.269e−10 ± 2.424e−13
1
0.8
0.6
0.4
0.2
0

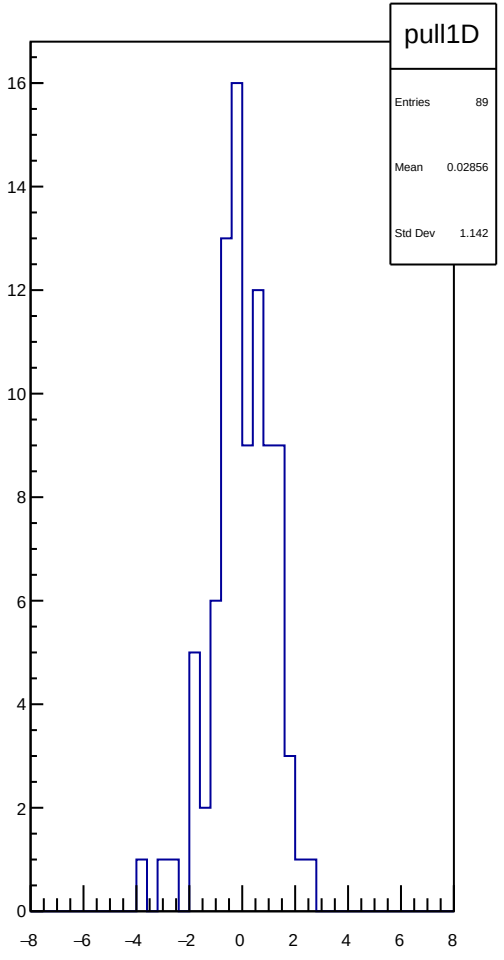

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.47 / 88
p0 0.01184 ± 0.05259
pull
Entries 89
Mean −0.3795
Std Dev 0
pull1D
Entries 89
Mean −0.1147
Std Dev 1.046

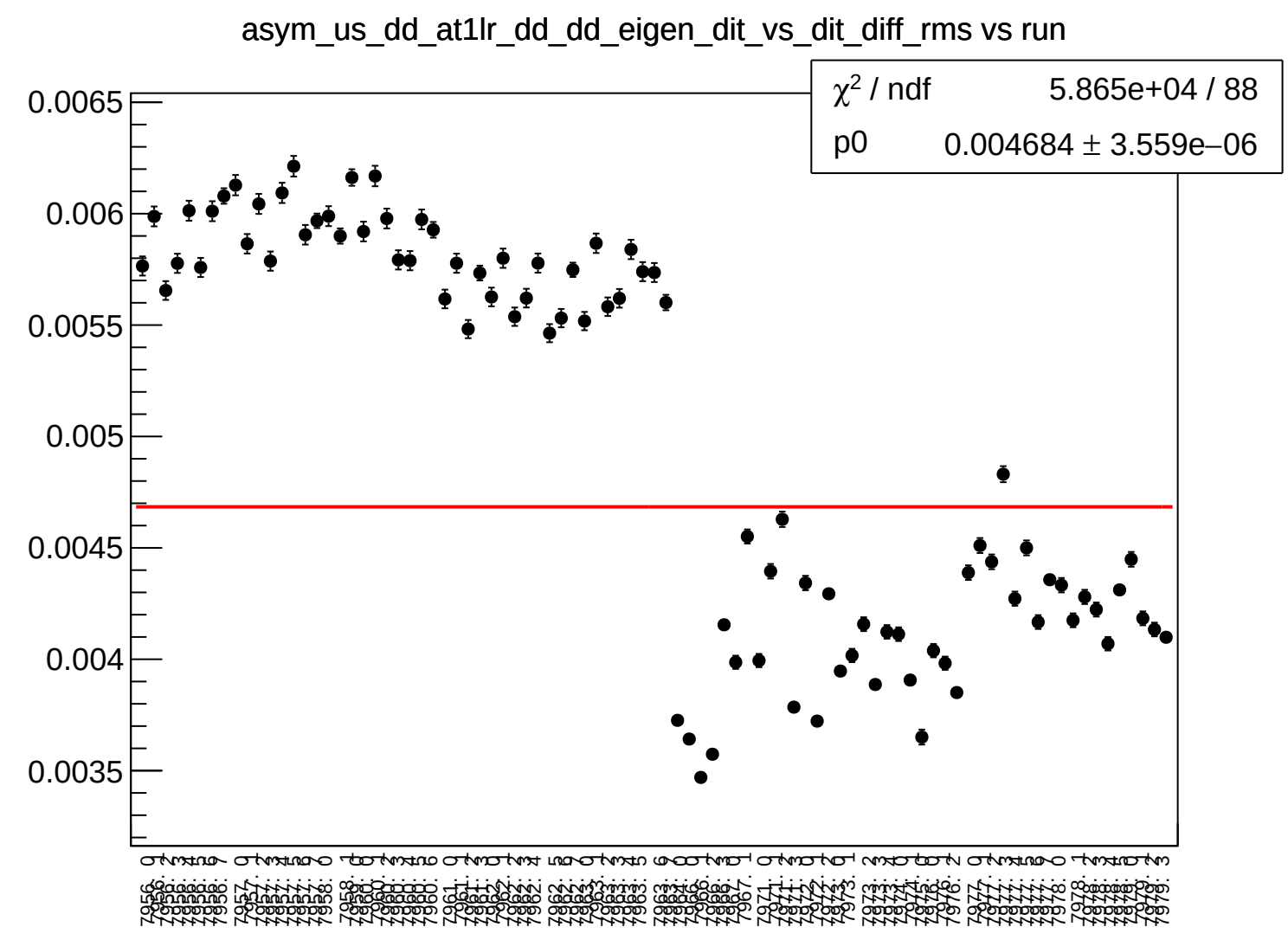

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.338e+05 / 88
p0 44.88 ± 0.03719
350
300
250
200
150
100
50

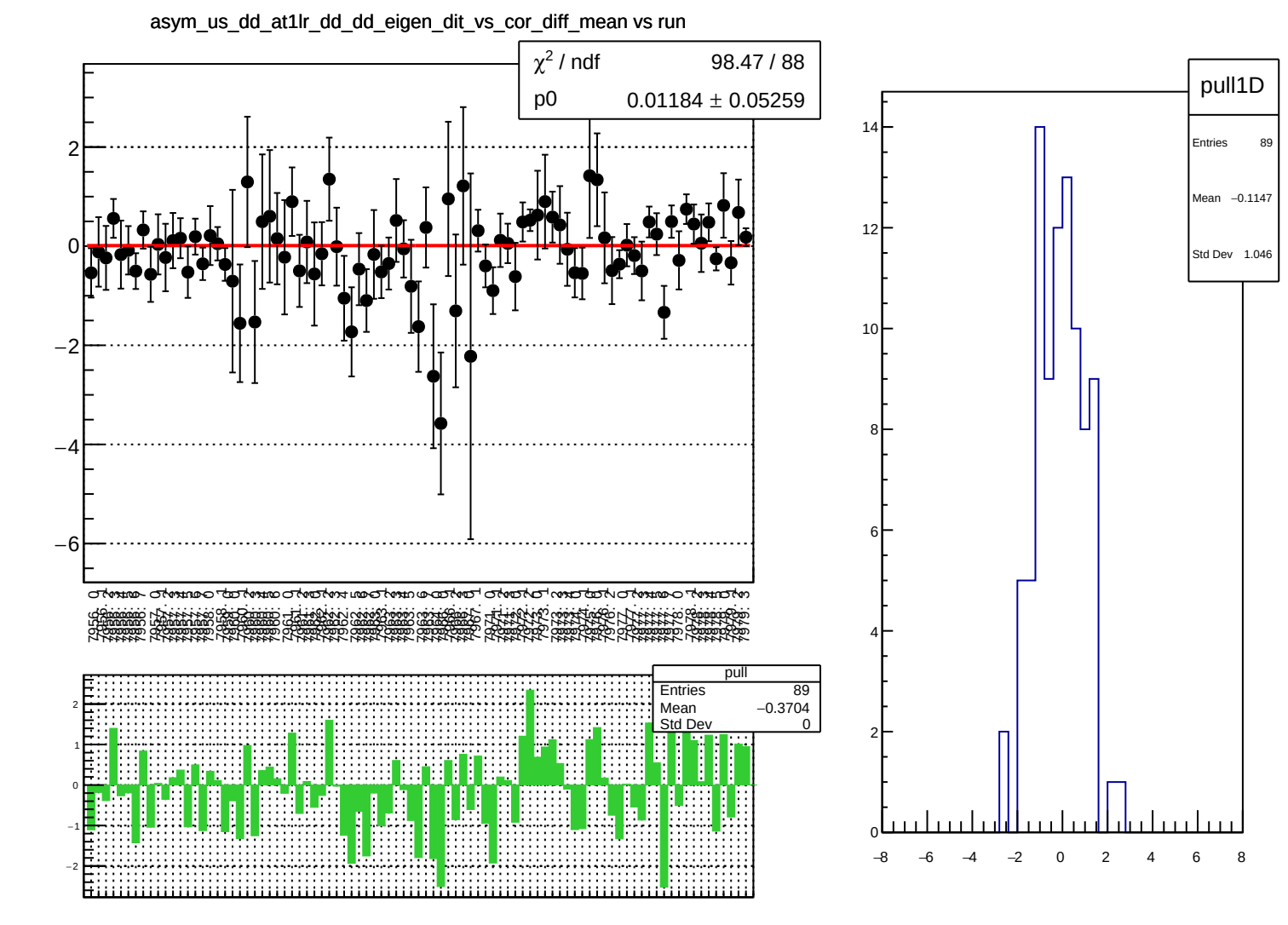

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.47 / 88
p0 0.01184 ± 0.05259
pull
Entries 89
Mean −0.3795
Std Dev 0
pull1D
Entries 89
Mean −0.1147
Std Dev 1.046

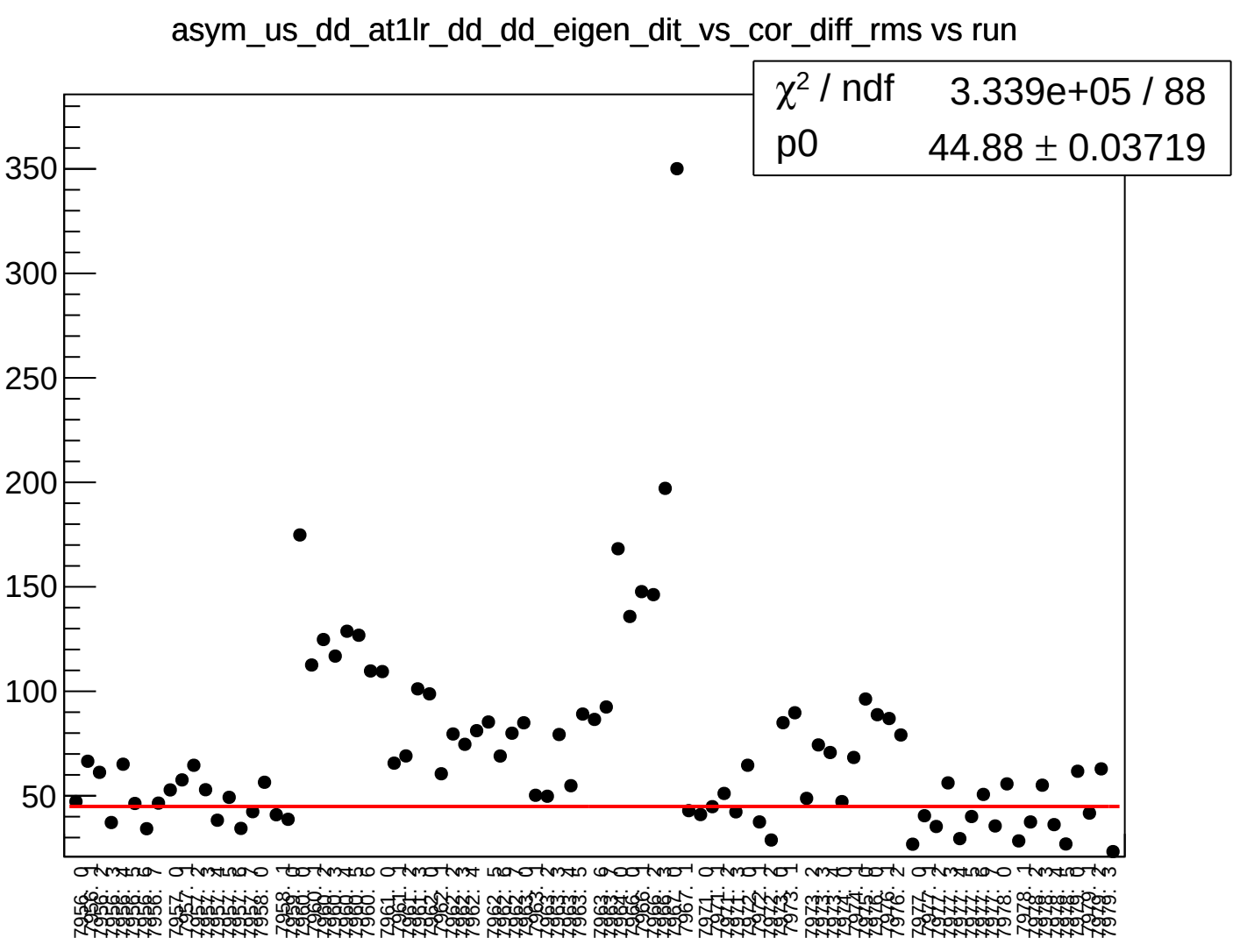

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.338e+05 / 88
p0 44.88 ± 0.03719
350
300
250
200
150
100
50

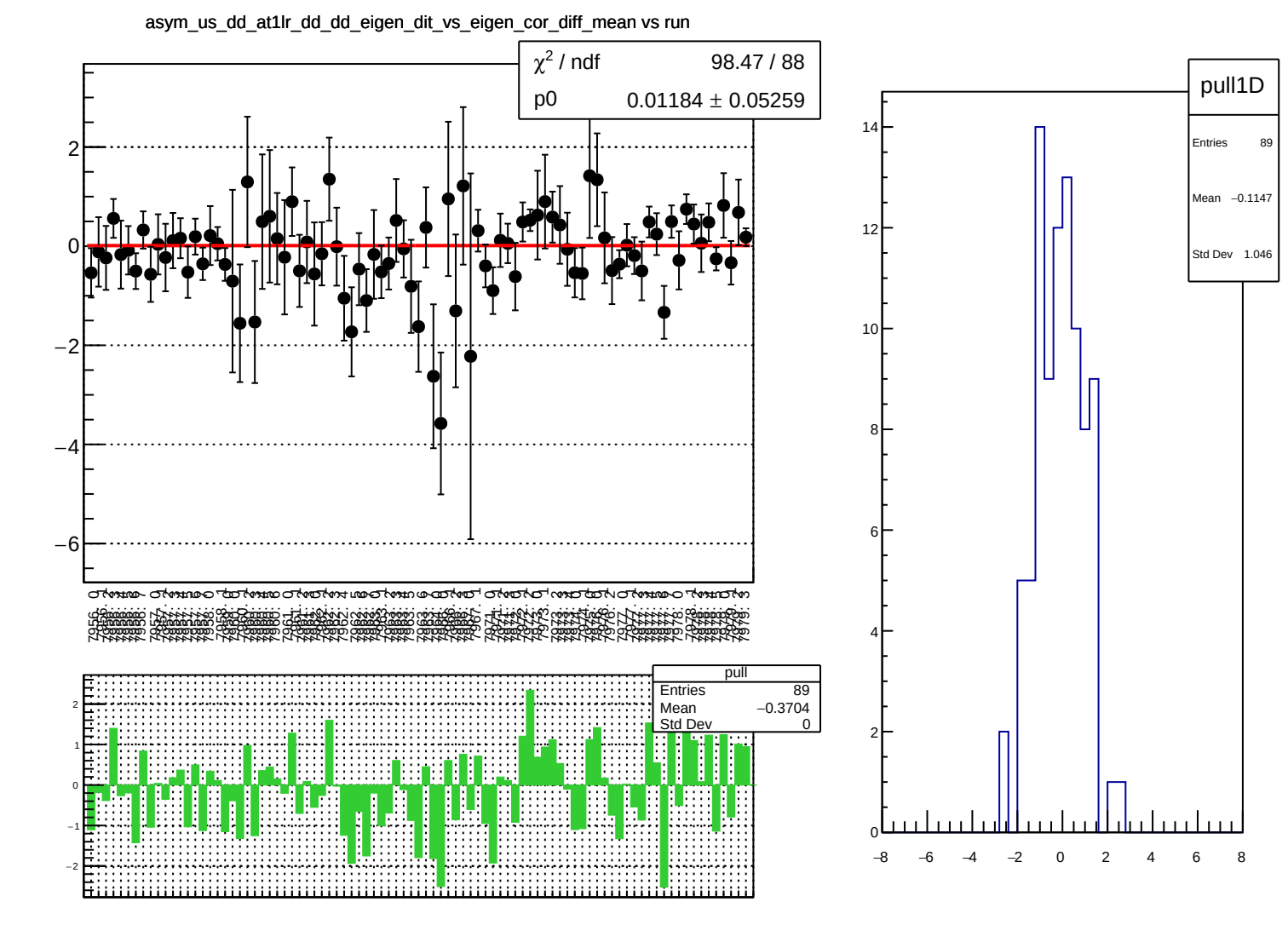

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116.1 / 88
p0 −1.364e−05 ± 5.033e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean 16.17
Std Dev 38.08
2
1
0
−1
−2
−3

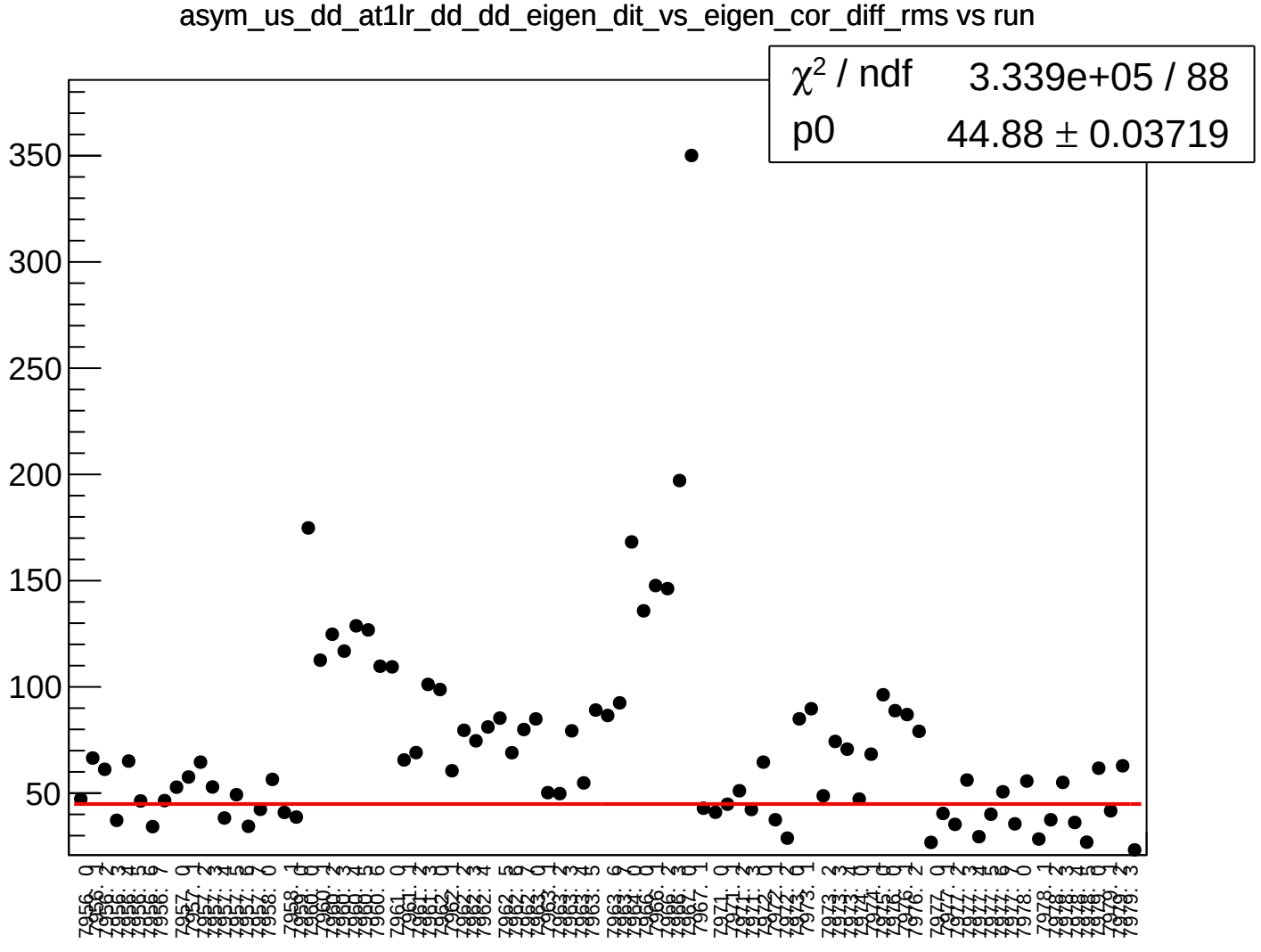

pull1D
Entries 89
Mean 0.02856
Std Dev 1.142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

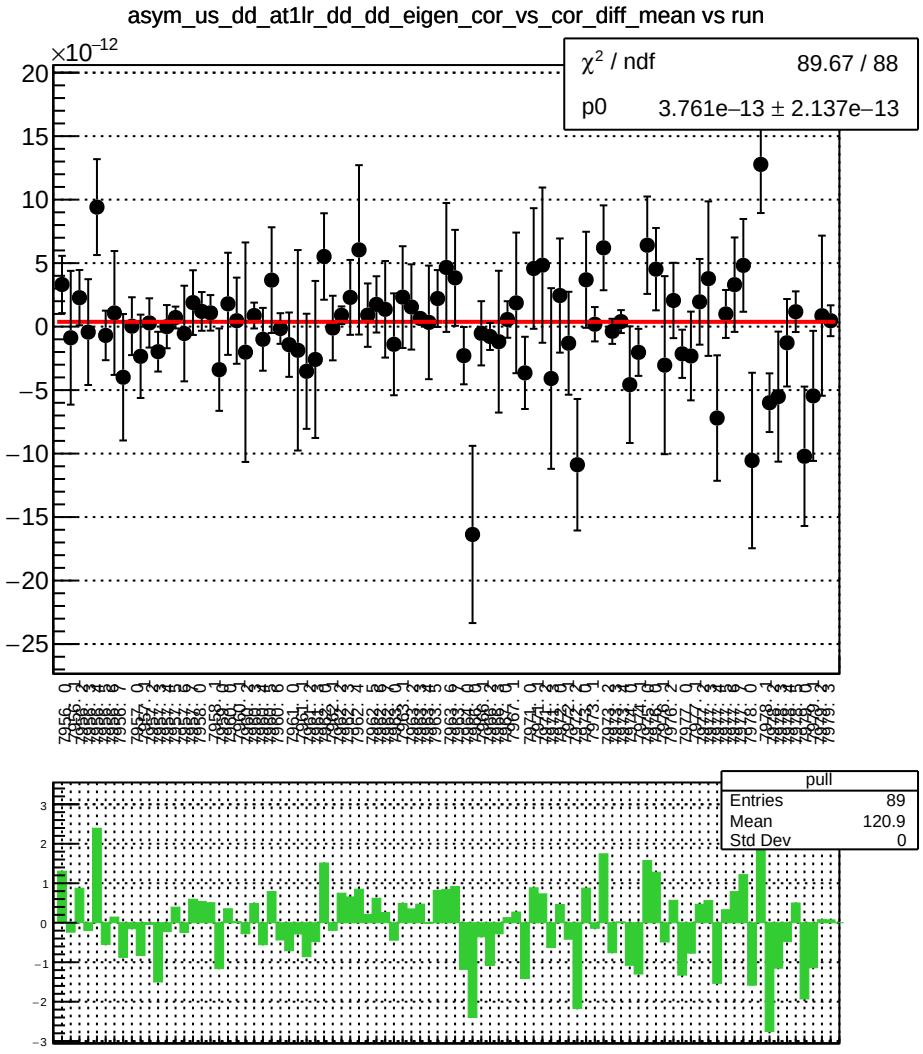

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.865e+04 / 88
p0 0.004684 ± 3.559e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

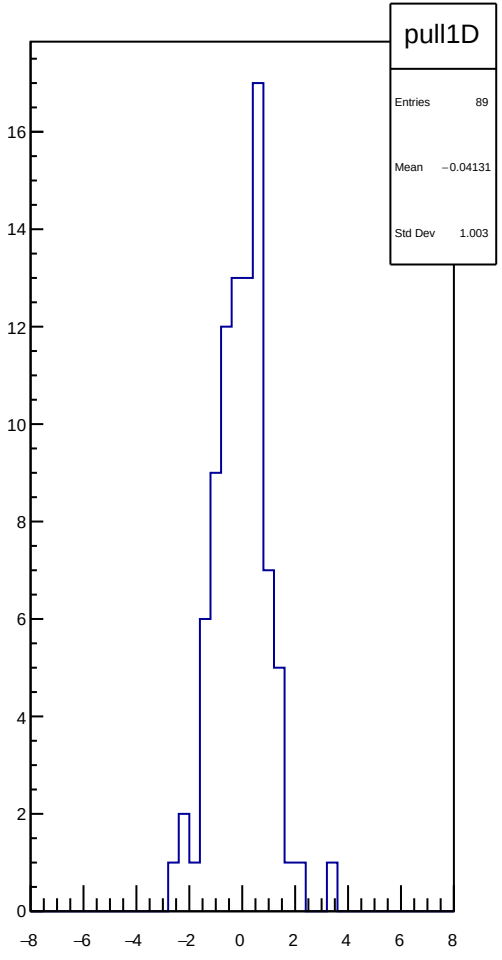

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.47 / 88
p0 0.01184 ± 0.05259
pull
Entries 89
Mean −0.3704
Std Dev 0
pull1D
Entries 89
Mean −0.1147
Std Dev 1.046

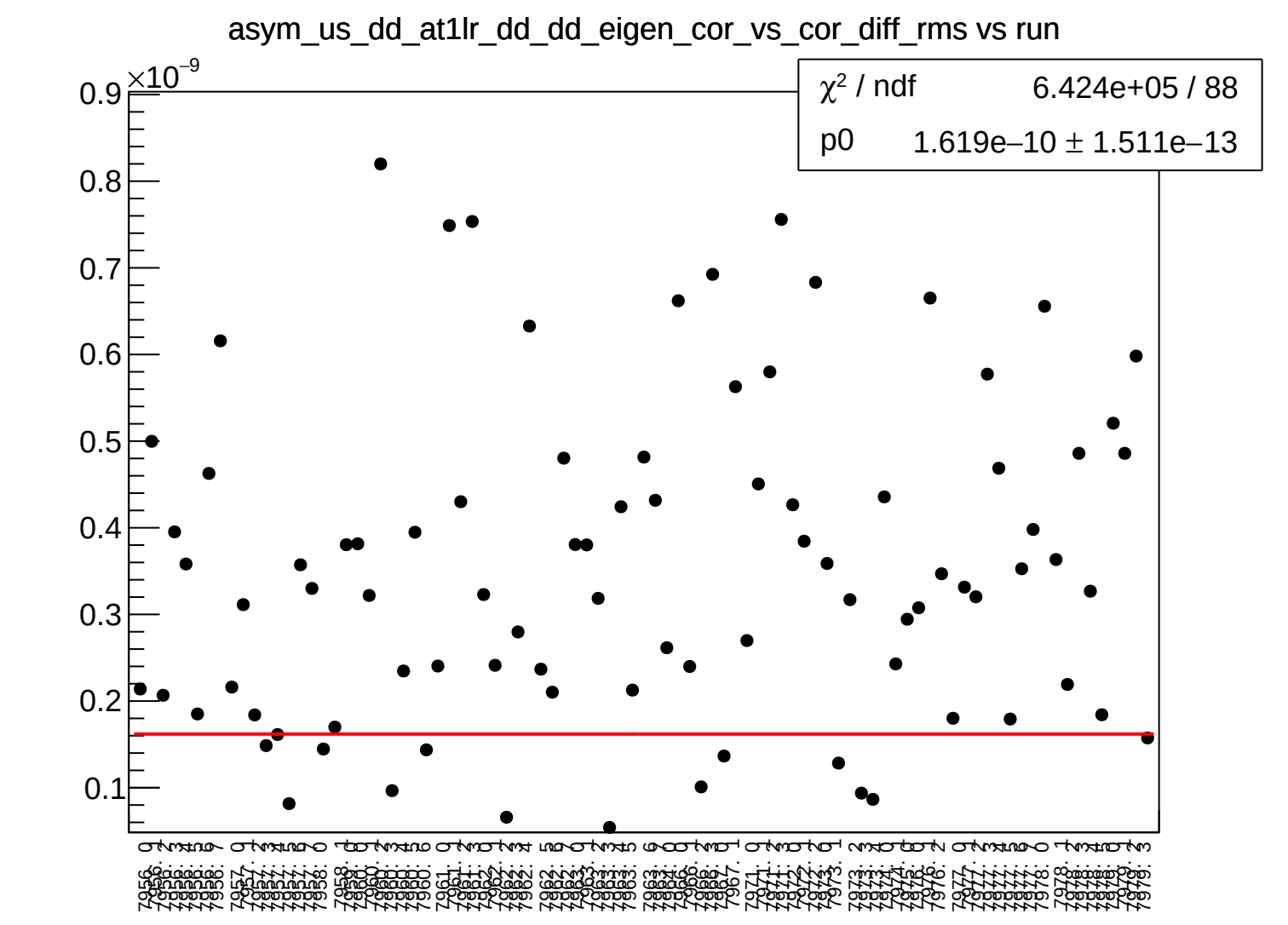

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.339e+05 / 88
p0 44.88 ± 0.03719
350
300
250
200
150
100
50

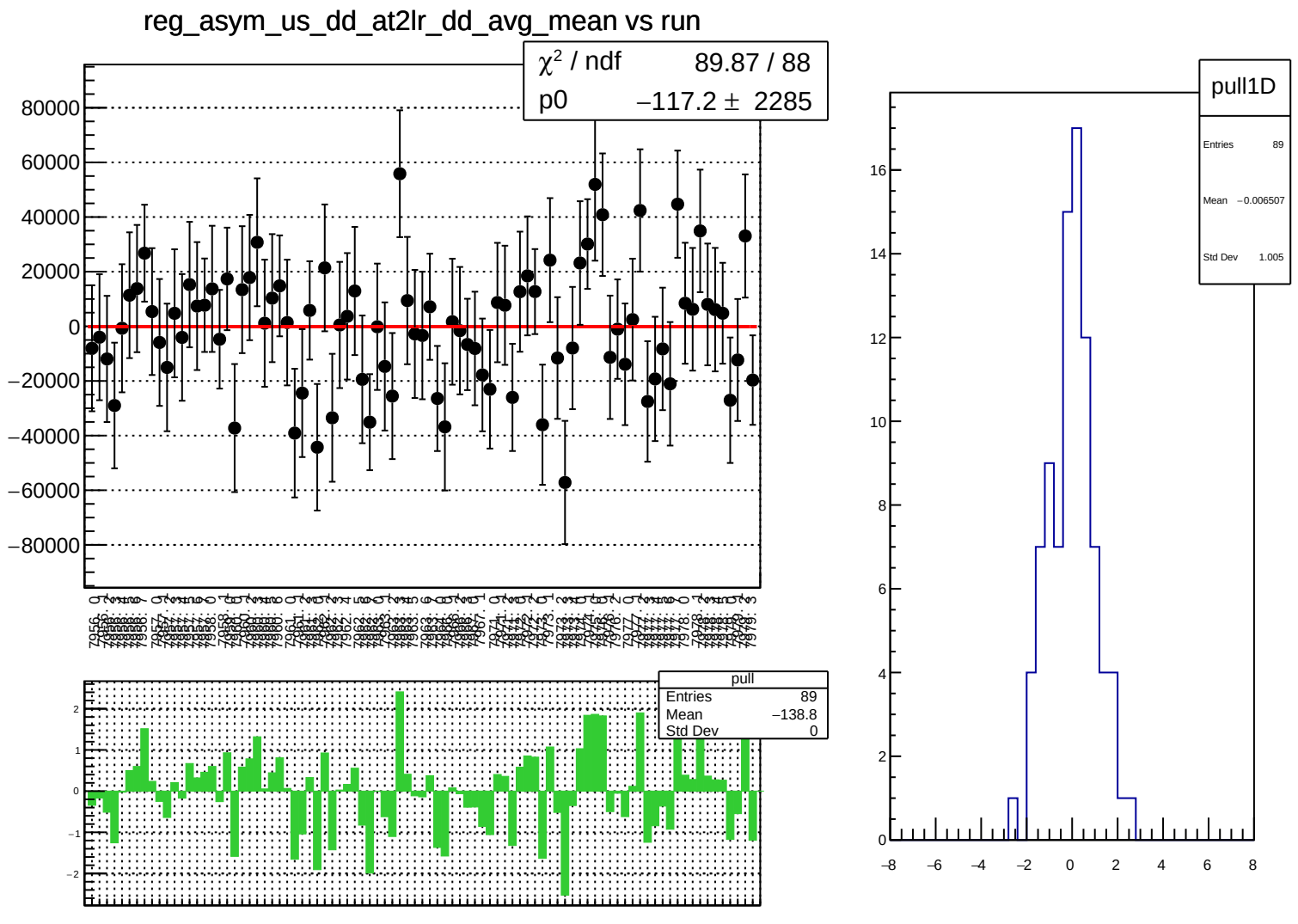

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.47 / 88
p0 0.01184 ± 0.05259
pull
Entries 89
Mean −0.3704
Std Dev 0
pull1D
Entries 89
Mean −0.1147
Std Dev 1.046

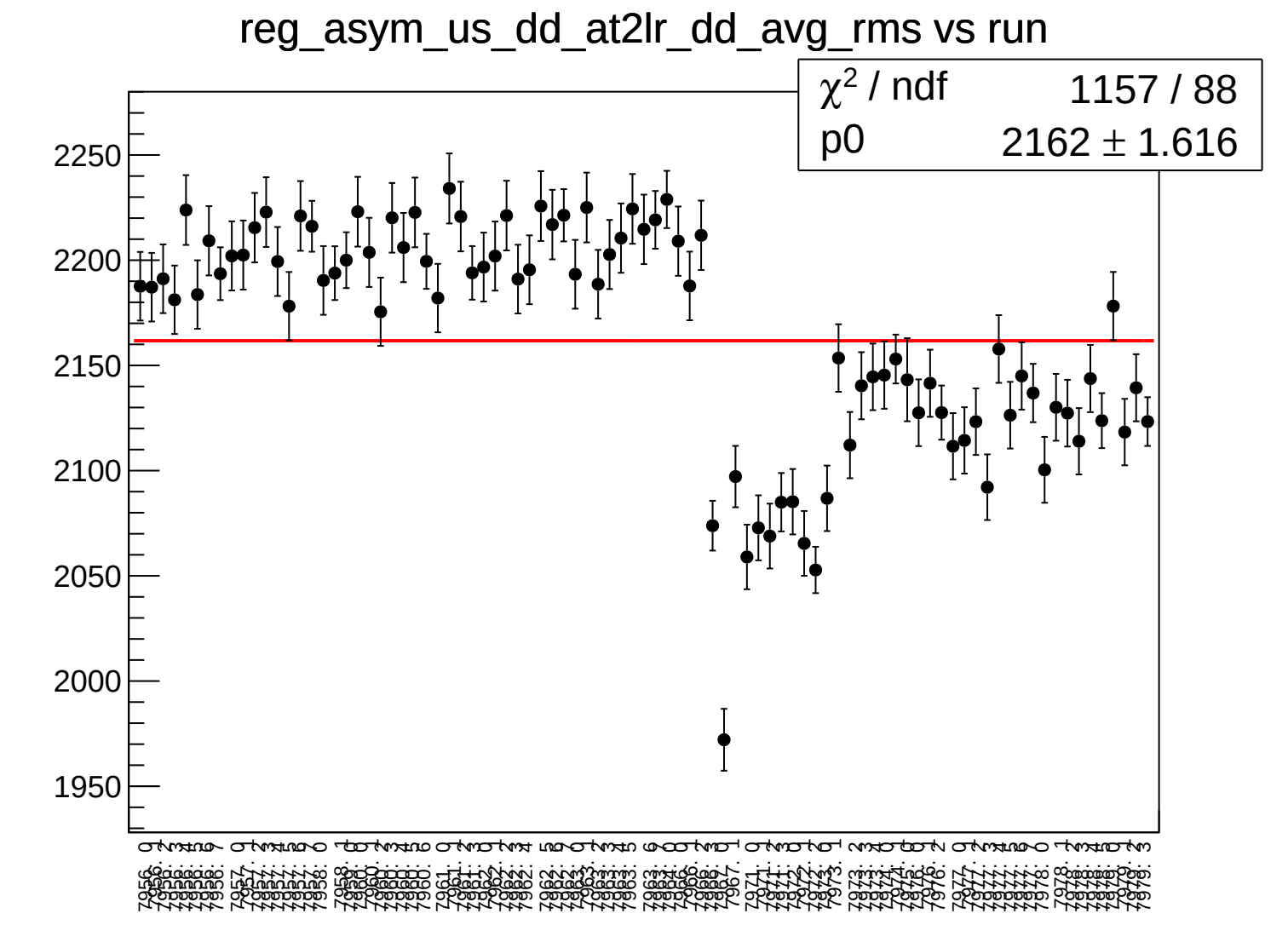

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.339e+05 / 88
p0 44.88 ± 0.03719
350
300
250
200
150
100
50

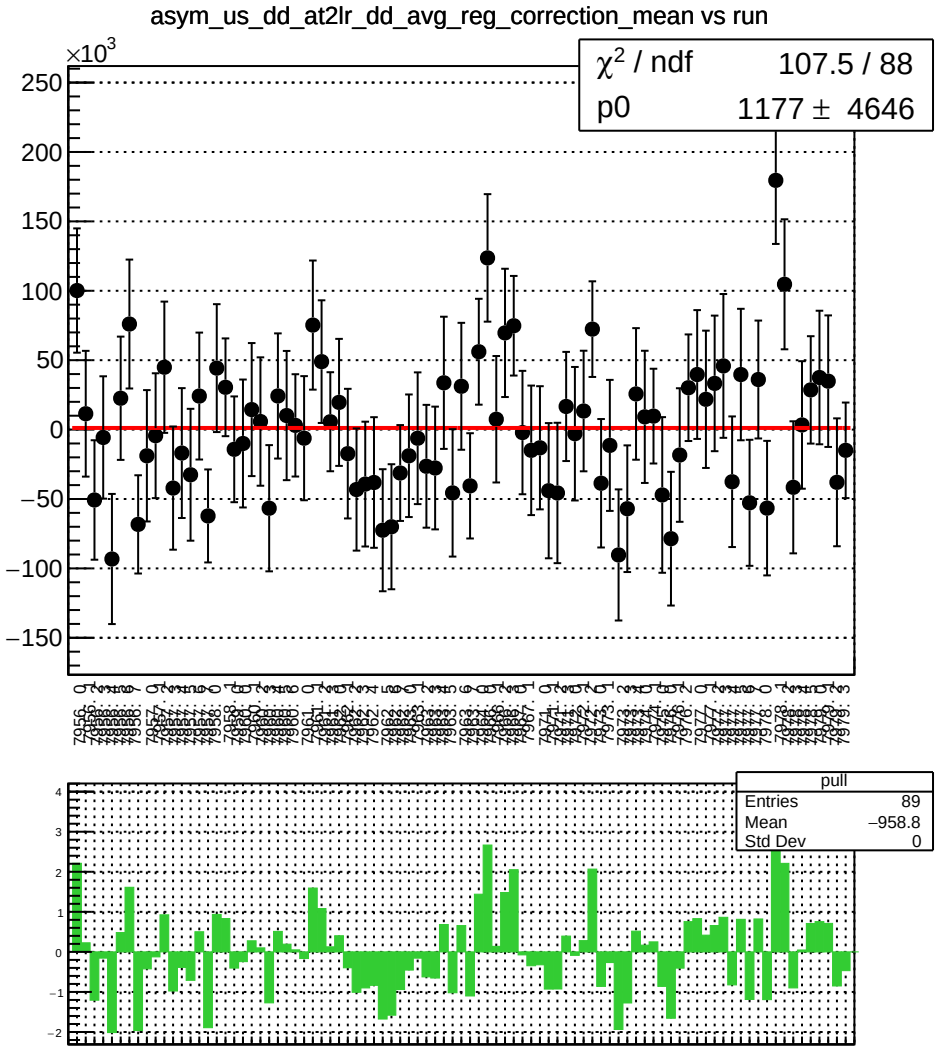

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.67 / 88
p0 3.761e−13 ± 2.137e−13
pull
Entries 89
Mean 120.9
Std Dev 0

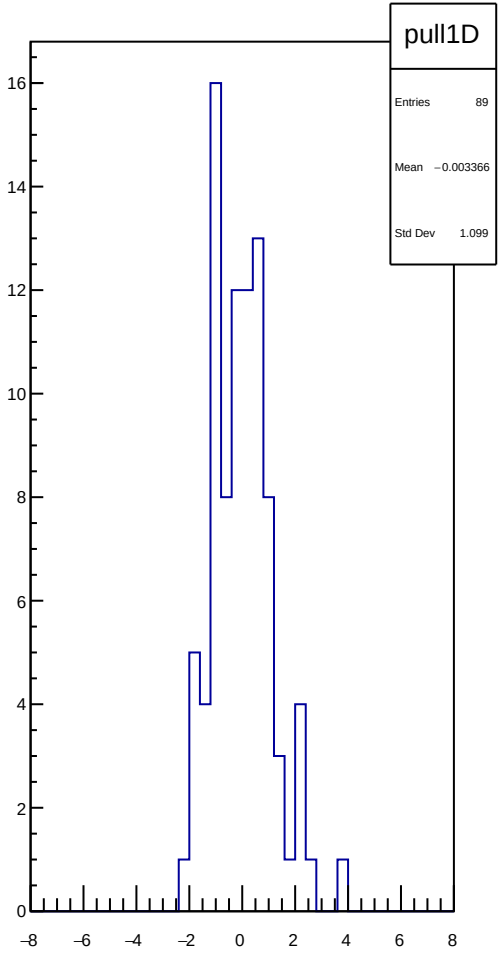

pull1D
Entries 89
Mean −0.04131
Std Dev 1.003

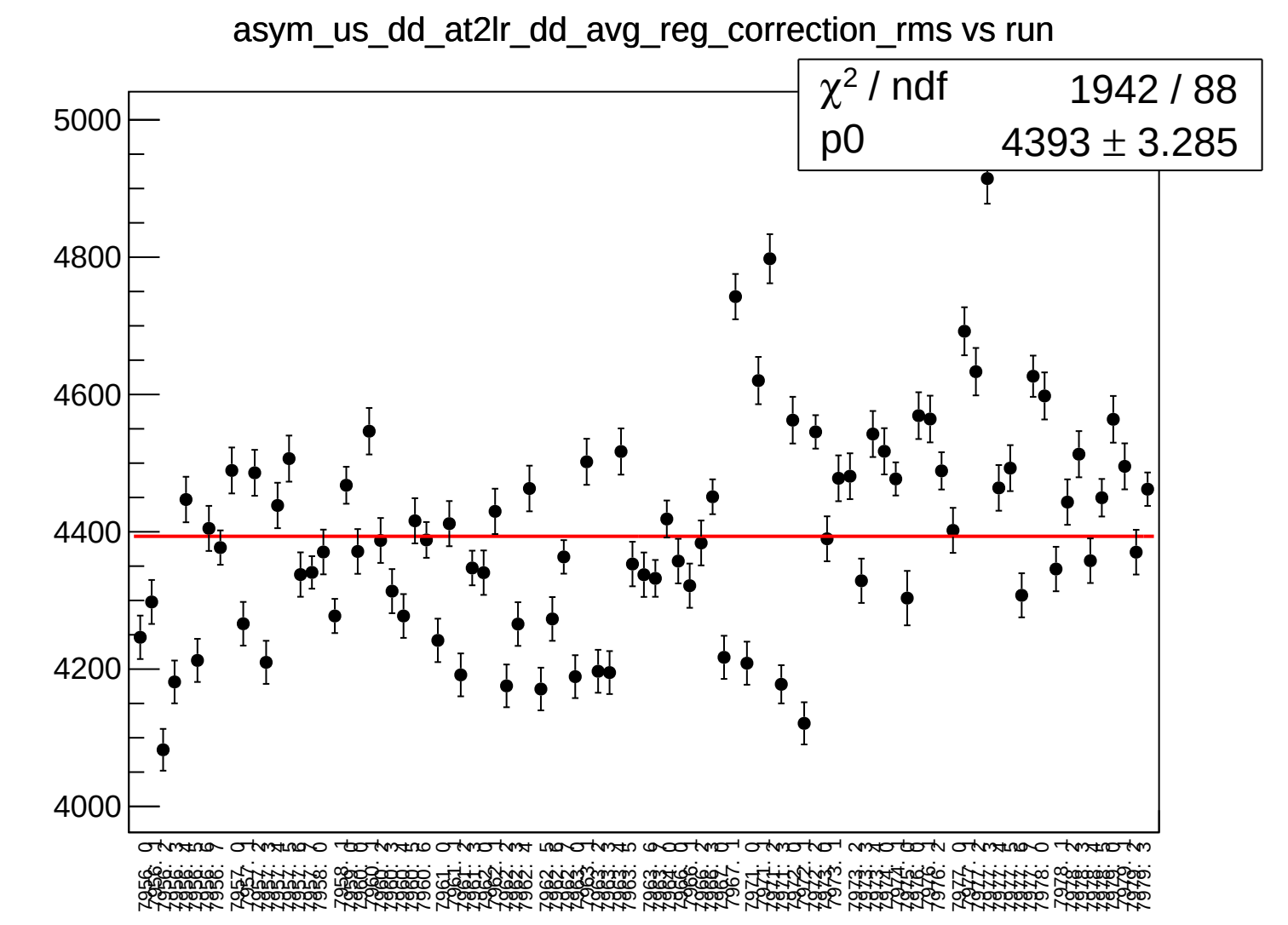

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 6.424e+05 / 88
p0 1.619e−10 ± 1.511e−13

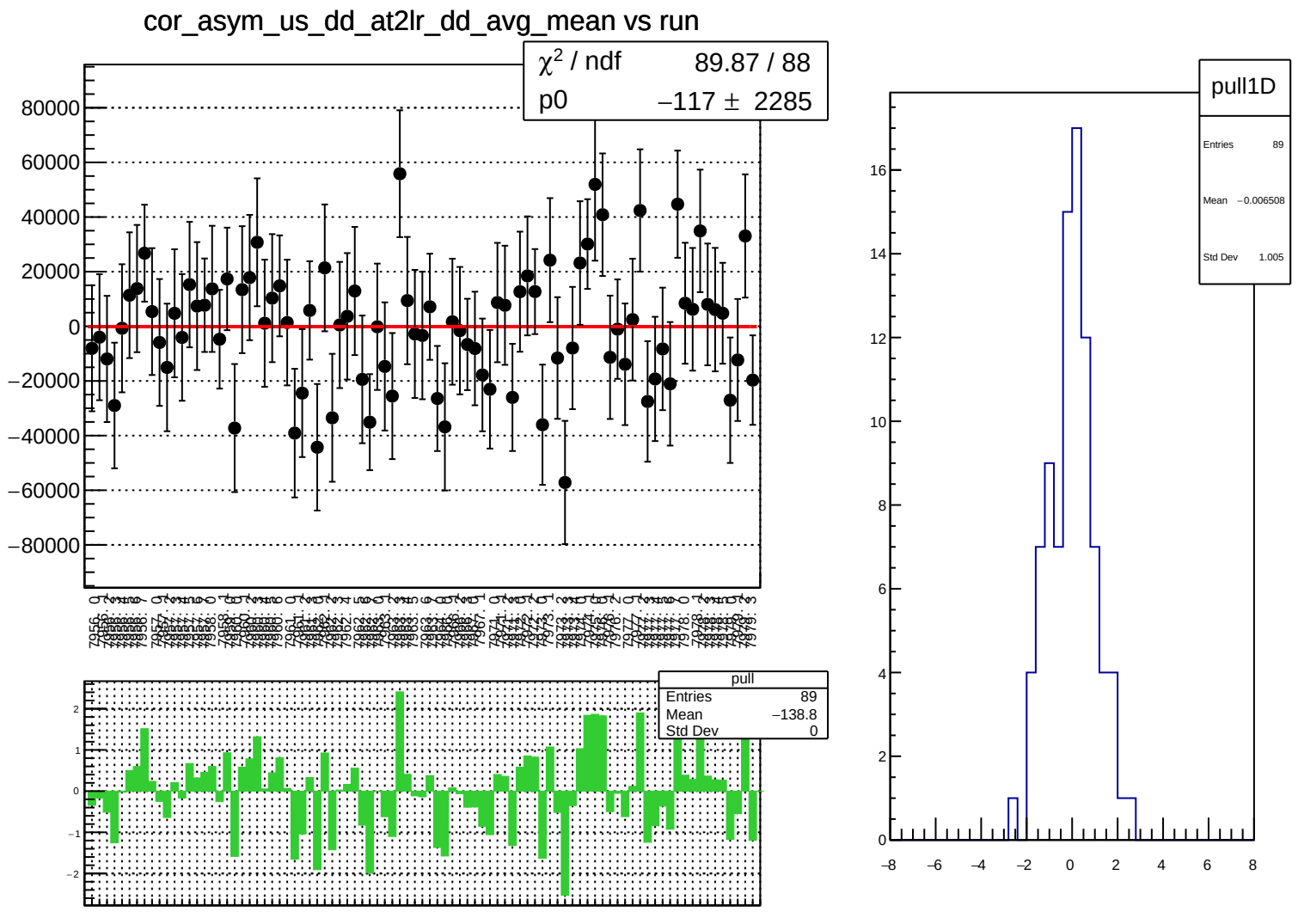

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 89.87 / 88
p0 −117.2 ± 2285
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −138.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.006507
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

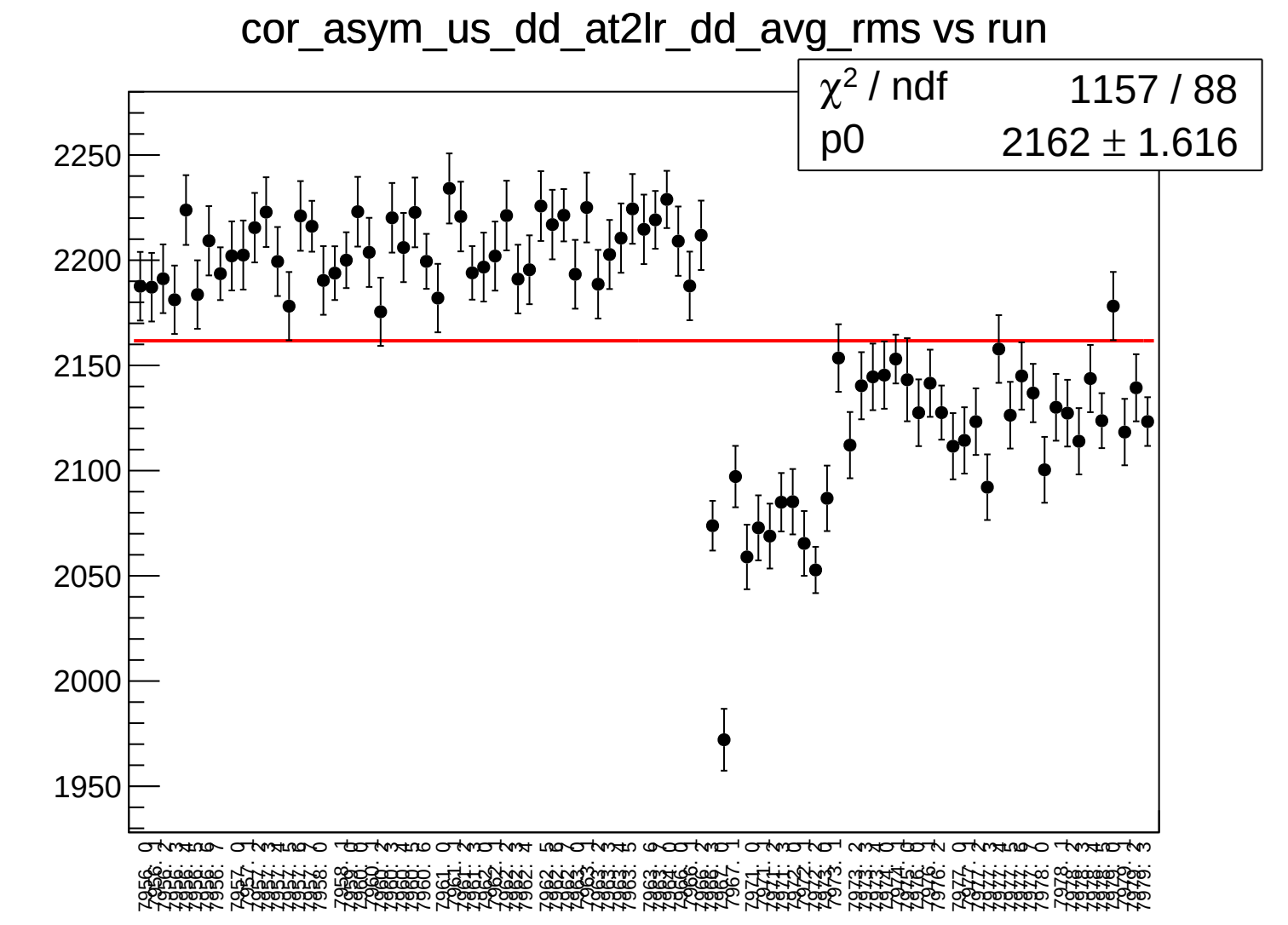

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1157 / 88
p0 2162 ± 1.616
2250
2200
2150
2100
2050
2000
1950

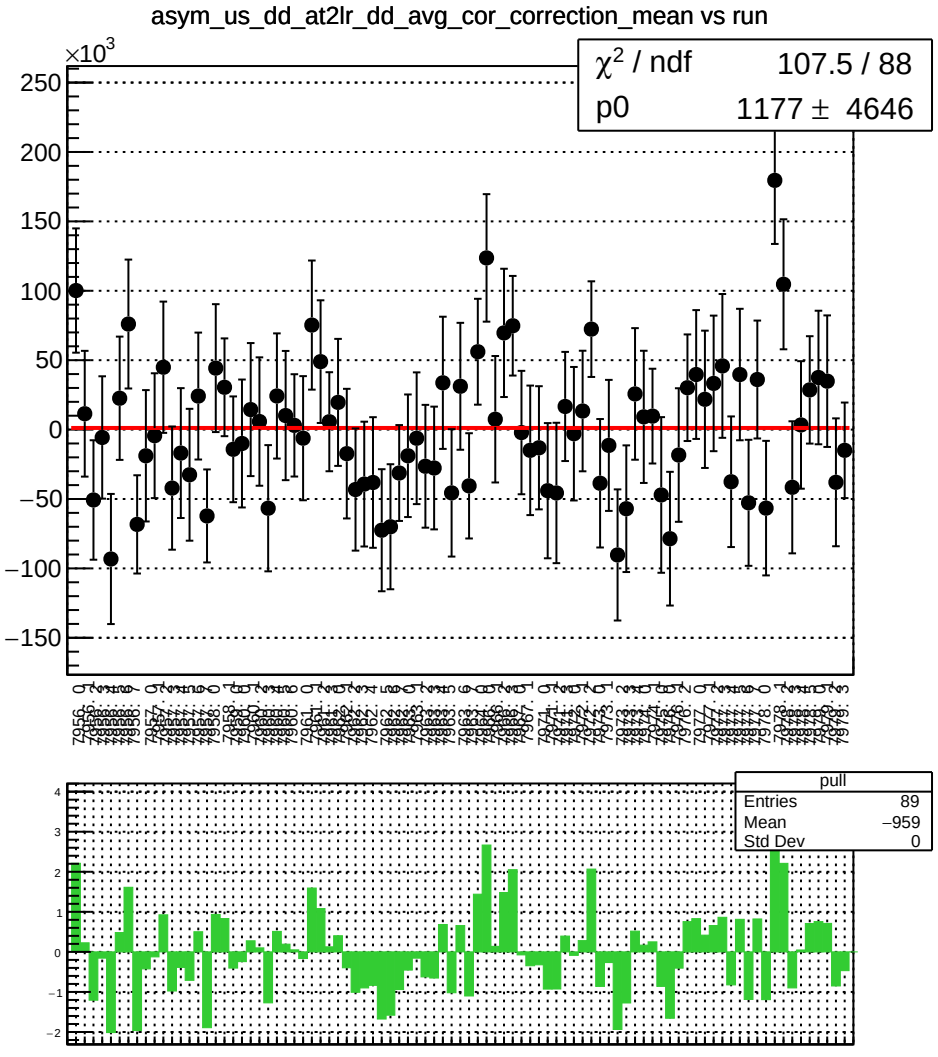

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 107.5 / 88
p0 1177 ± 4646
pull
Entries 89
Mean −958.8
Std Dev 0

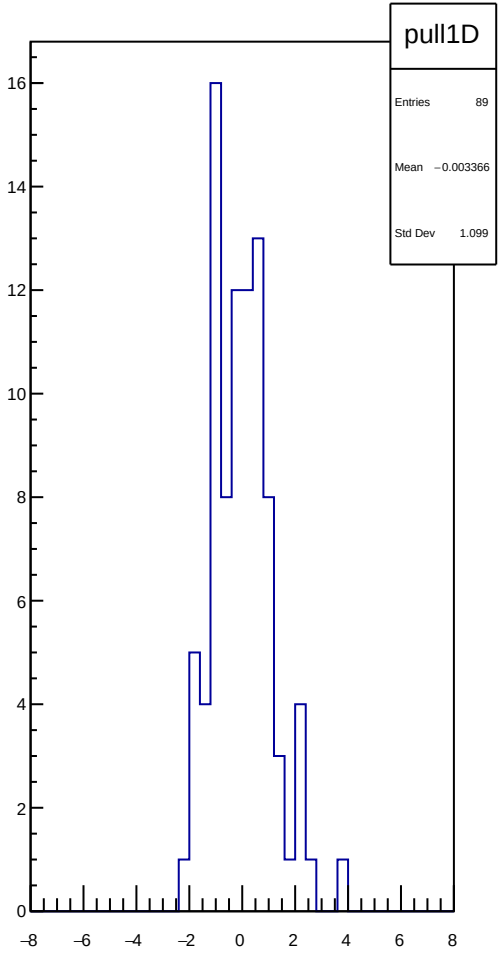

pull1D
Entries 89
Mean −0.003366
Std Dev 1.099

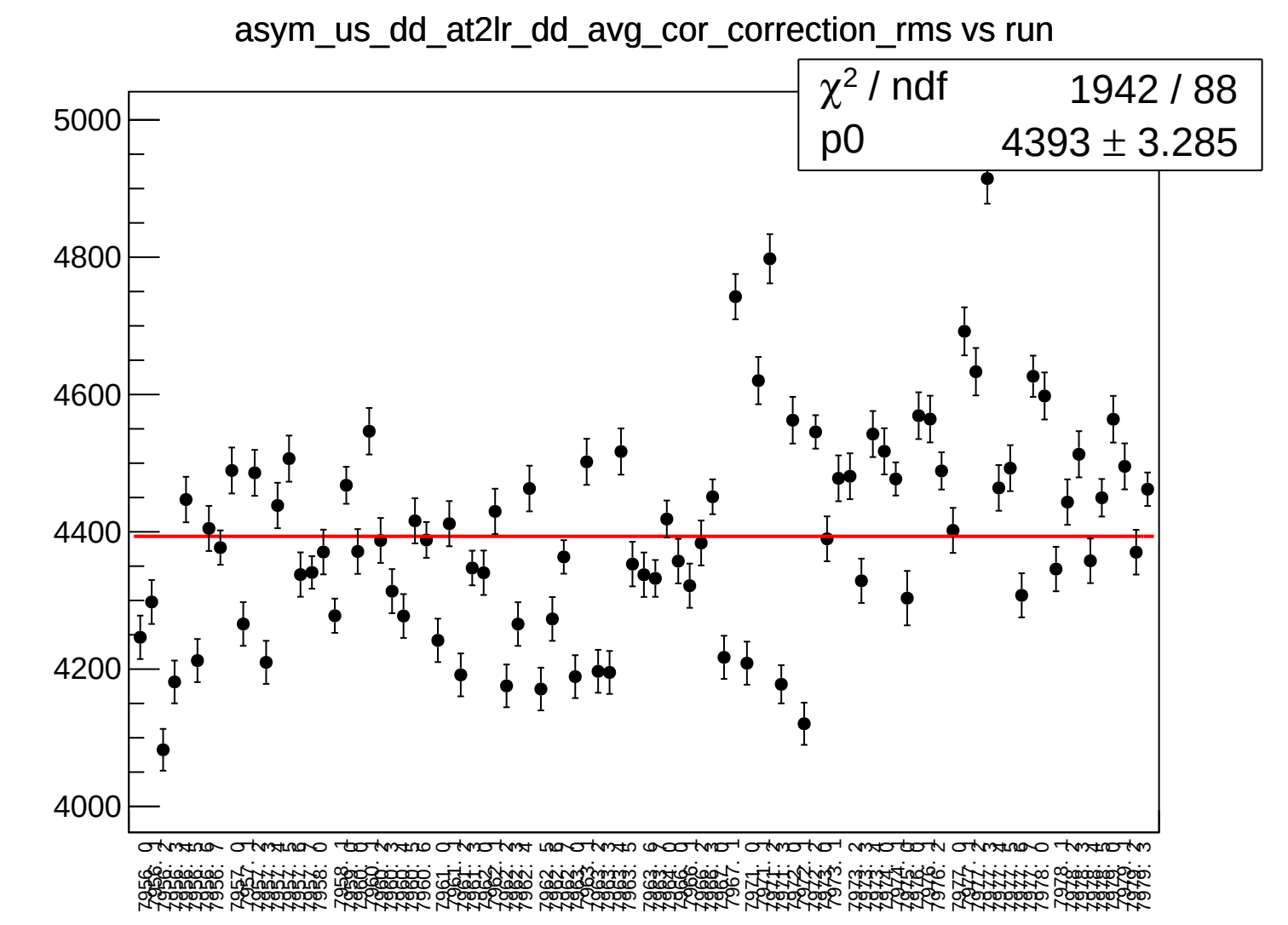

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1942 / 88
p0 4393 ± 3.285
5000
4800
4600
4400
4200
4000

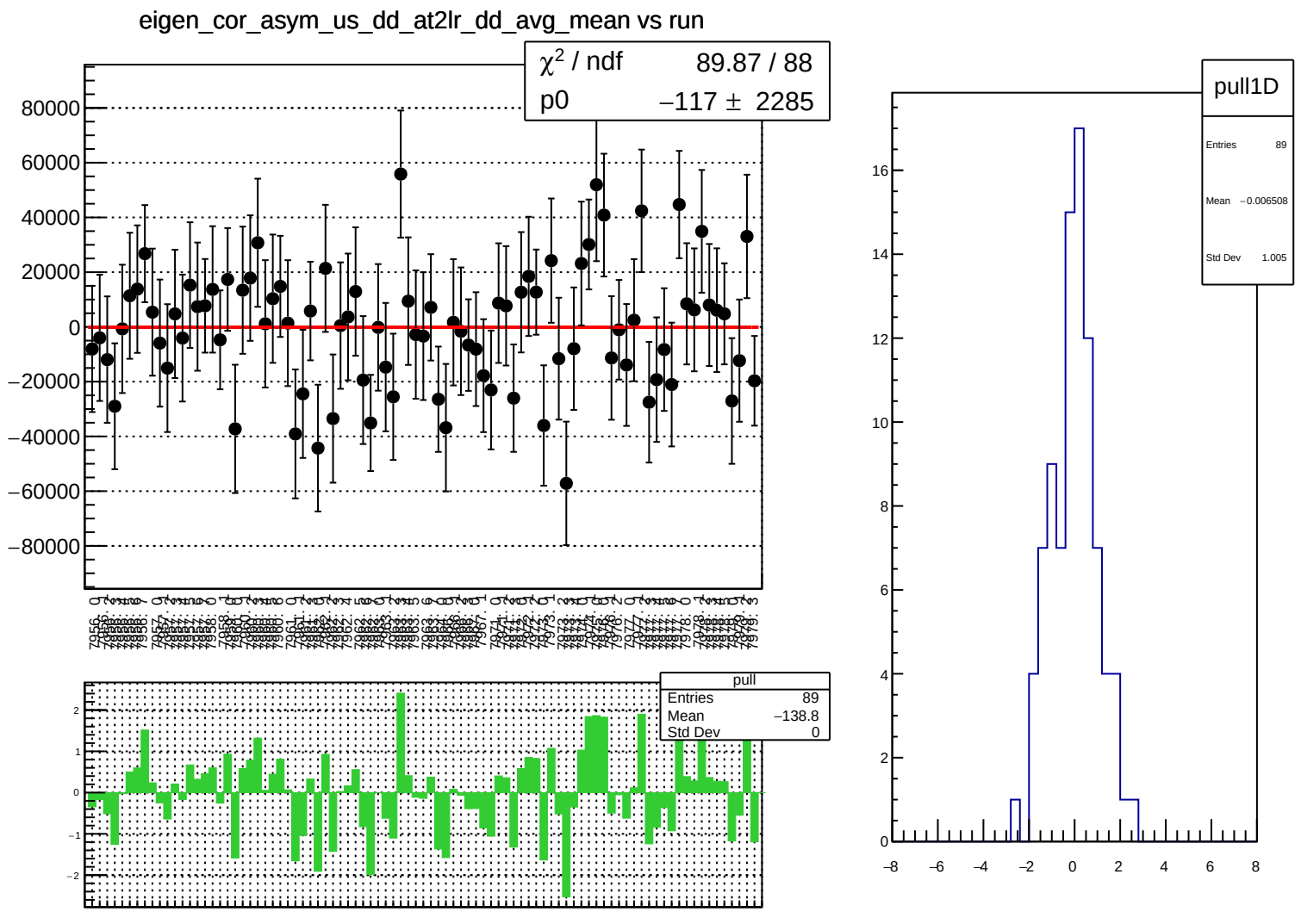

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 89.87 / 88
p0 −117 ± 2285
pull
Entries 89
Mean −138.8
Std Dev 0
pull1D
Entries 89
Mean −0.006508
Std Dev 1.005

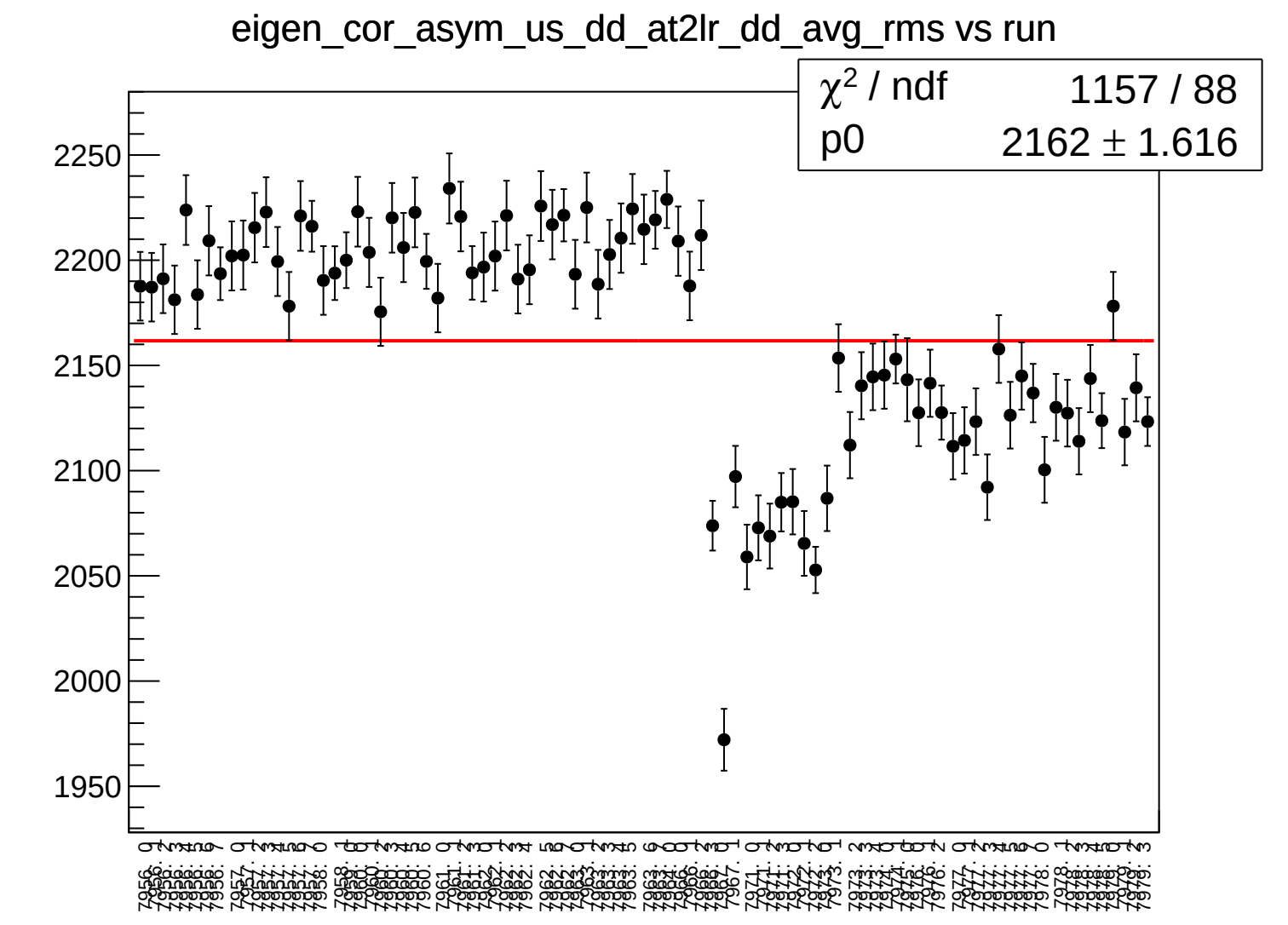

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1157 / 88
p0 2162 ± 1.616
2250
2200
2150
2100
2050
2000
1950

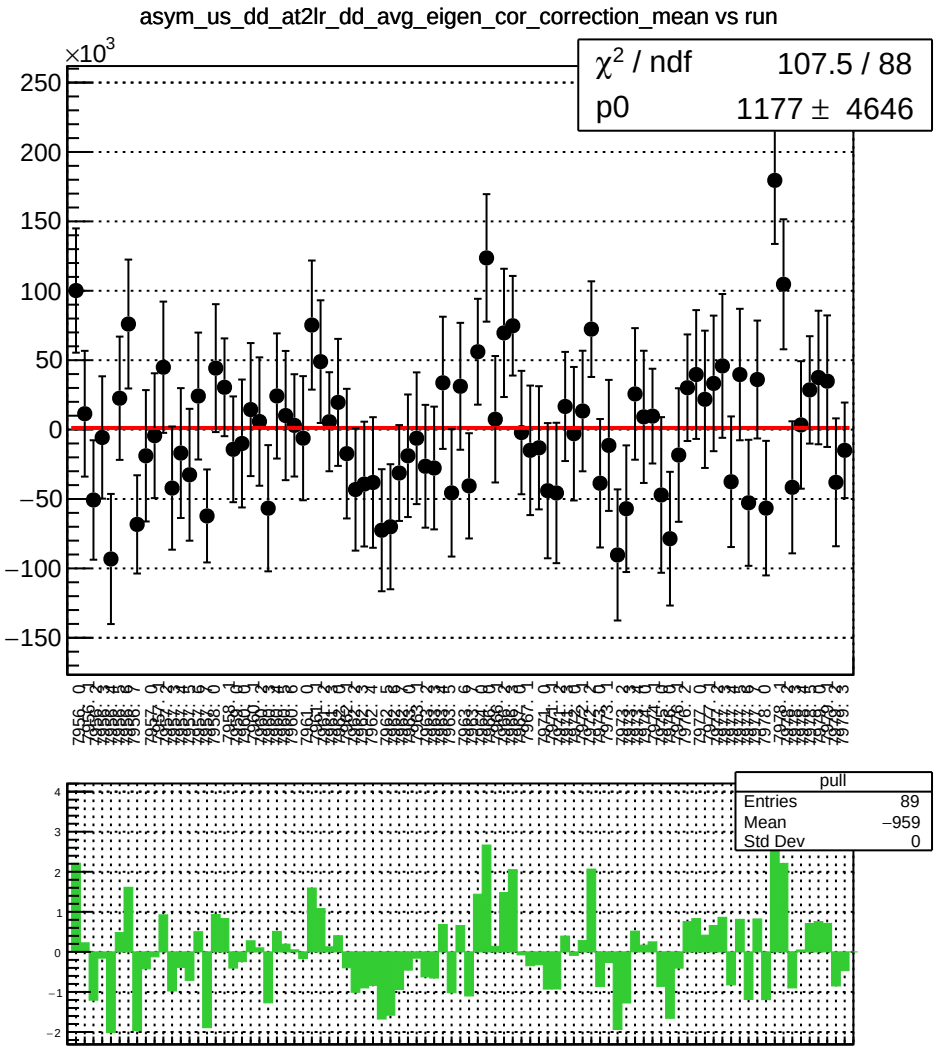

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 107.5 / 88
p0 1177 ± 4646
pull
Entries 89
Mean −959
Std Dev 0

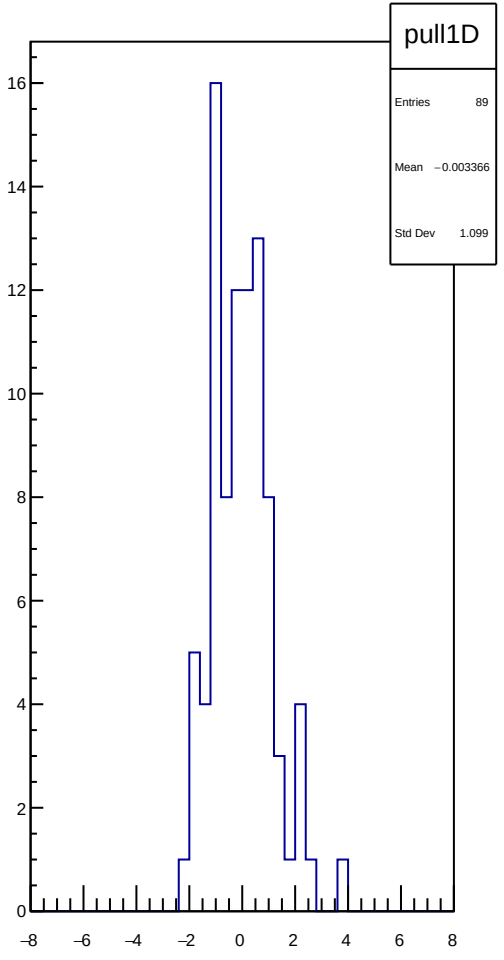

pull1D
Entries 89
Mean −0.003366
Std Dev 1.099

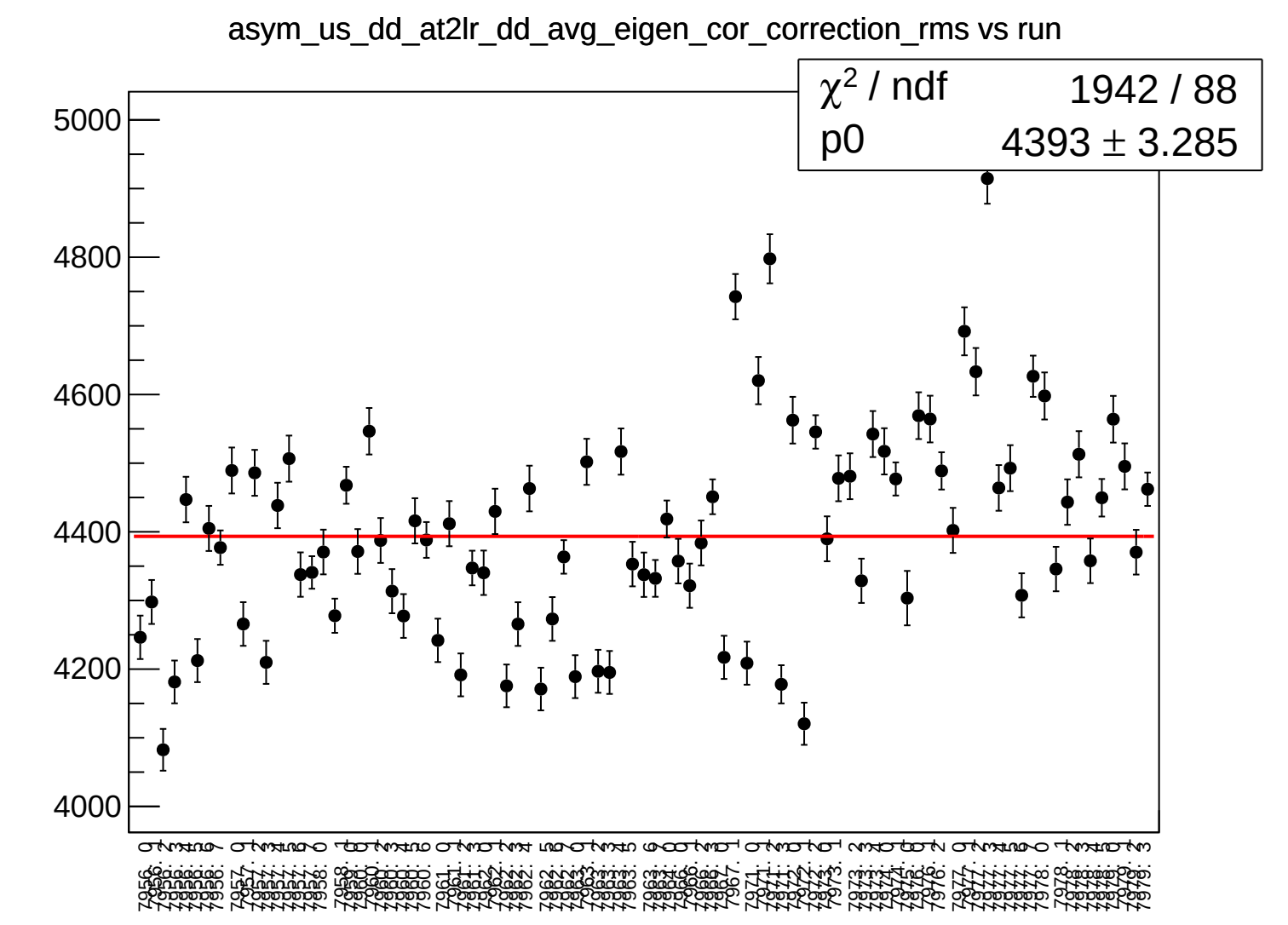

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1942 / 88
p0 4393 ± 3.285
5000
4800
4600
4400
4200
4000

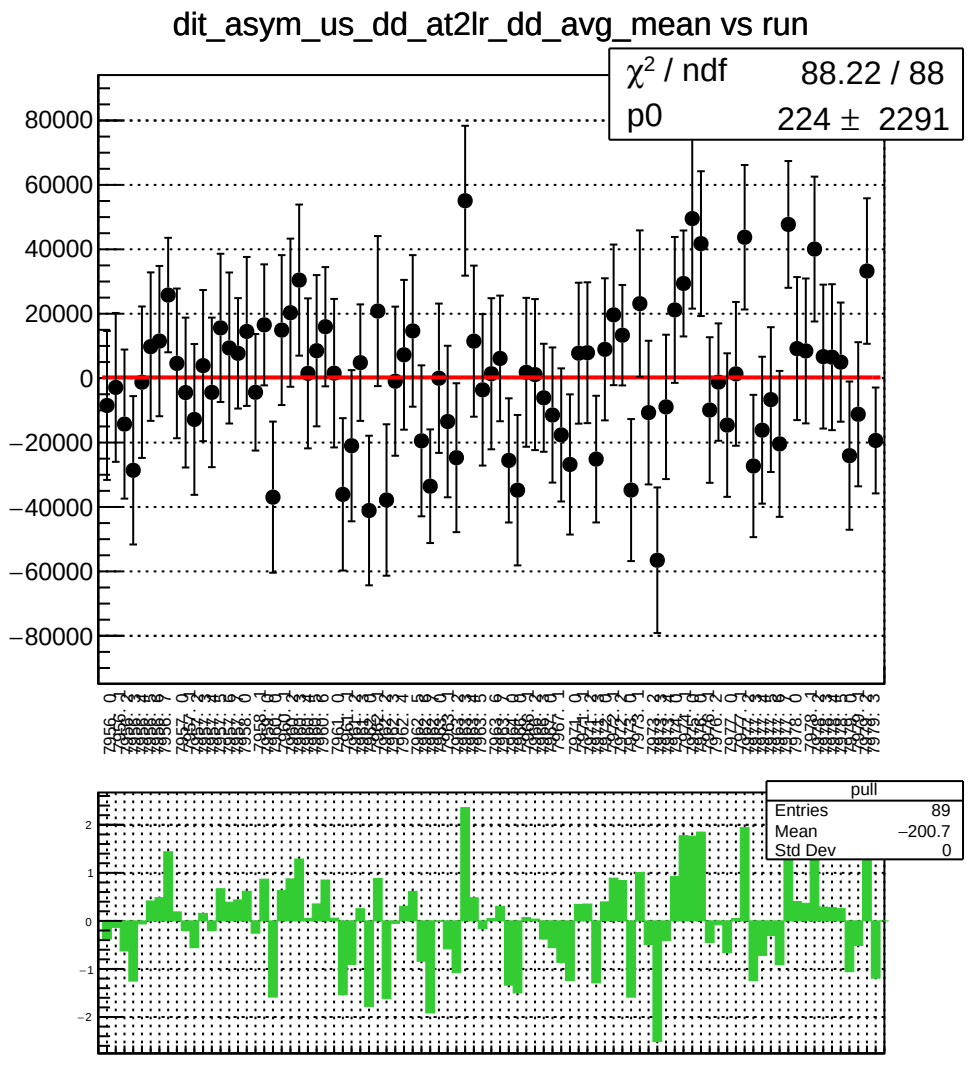

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 89.87 / 88
p0 −117 ± 2285
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −138.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.006508
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

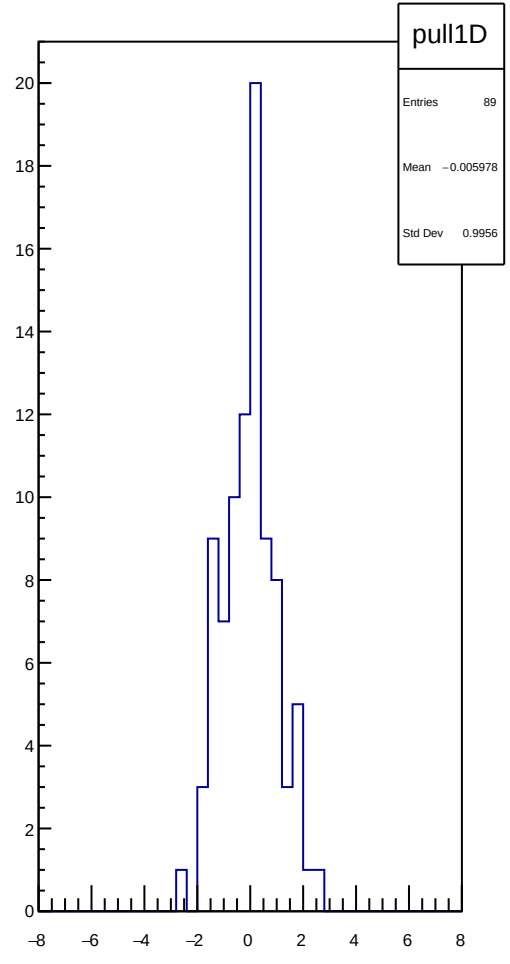

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1157 / 88
p0 2162 ± 1.616
2250
2200
2150
2100
2050
2000
1950

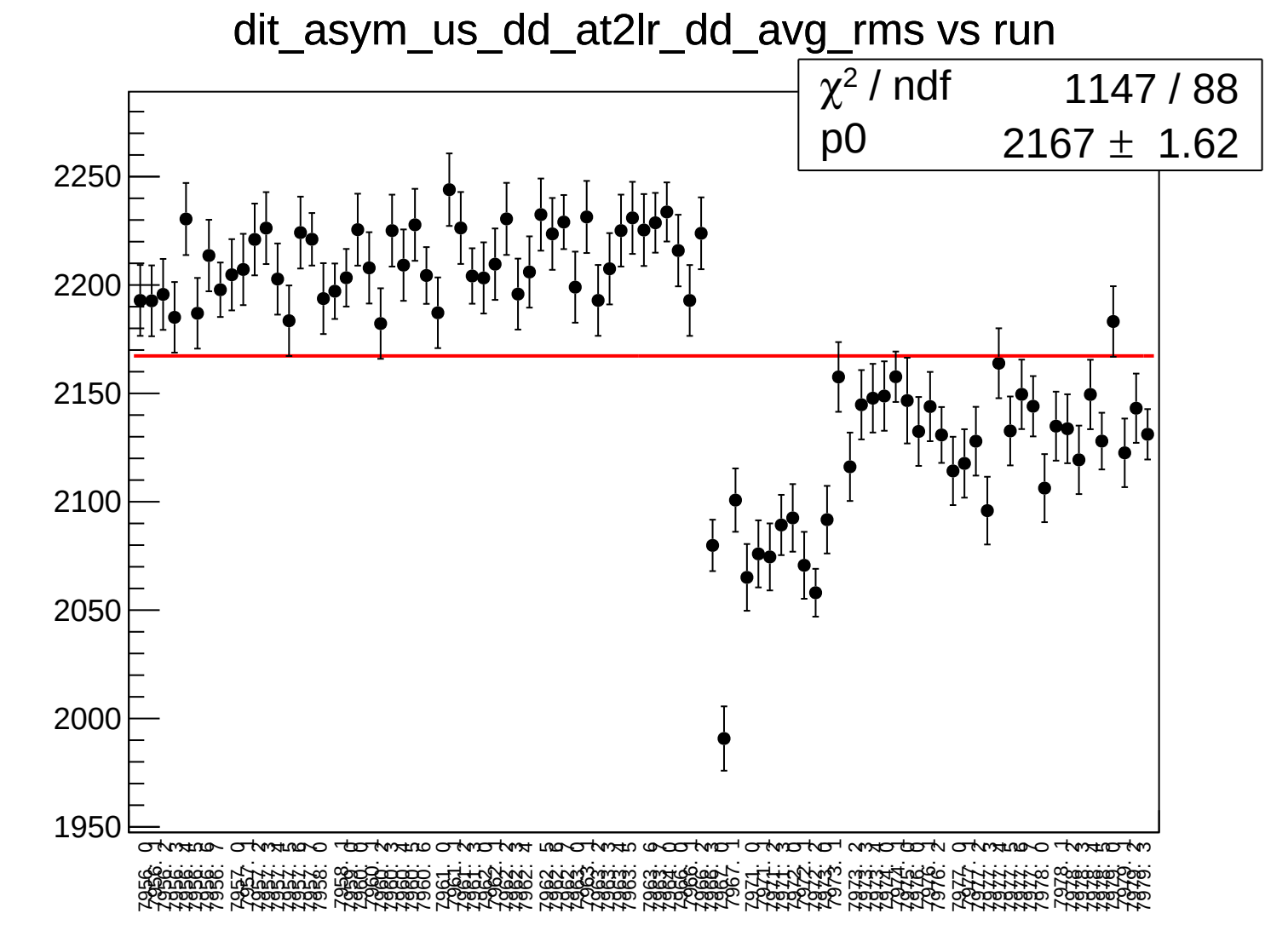

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.5 / 88
p0 1177 ± 4646
pull
Entries 89
Mean −959
Std Dev 0

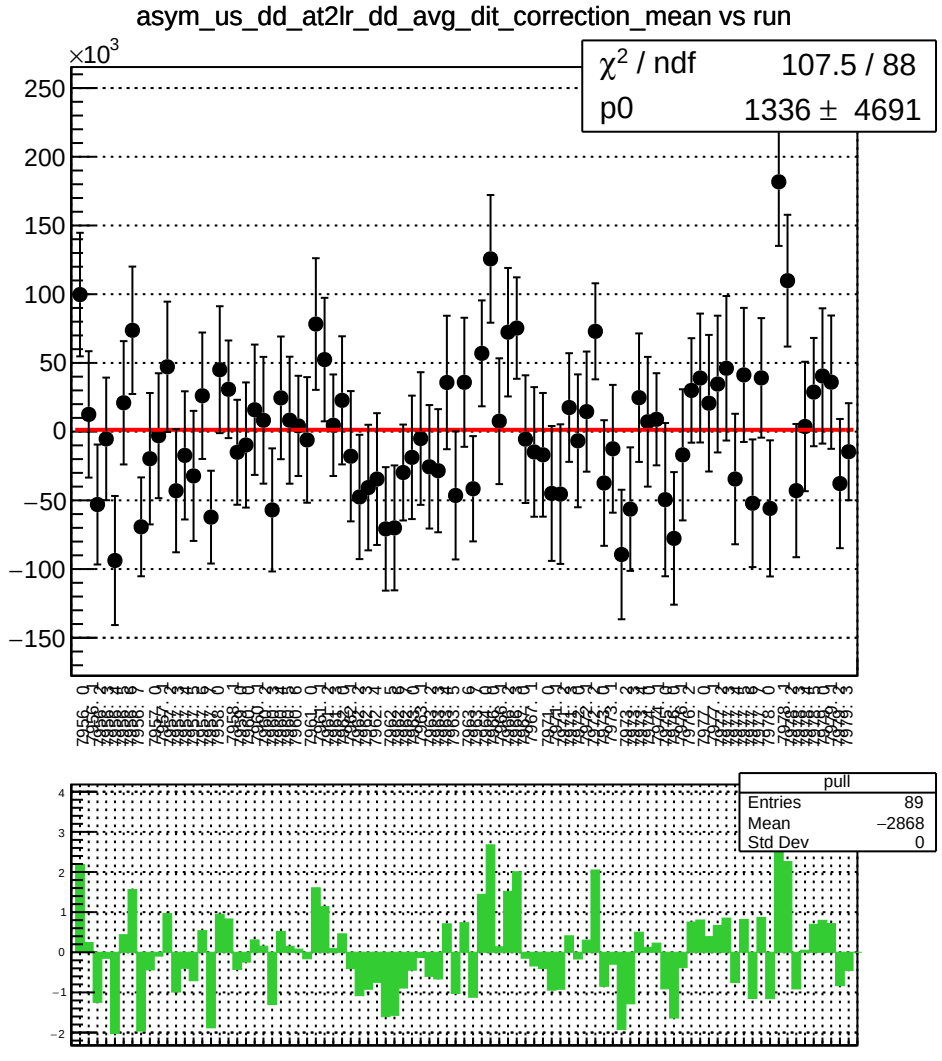

pull1D
Entries 89
Mean −0.003366
Std Dev 1.099

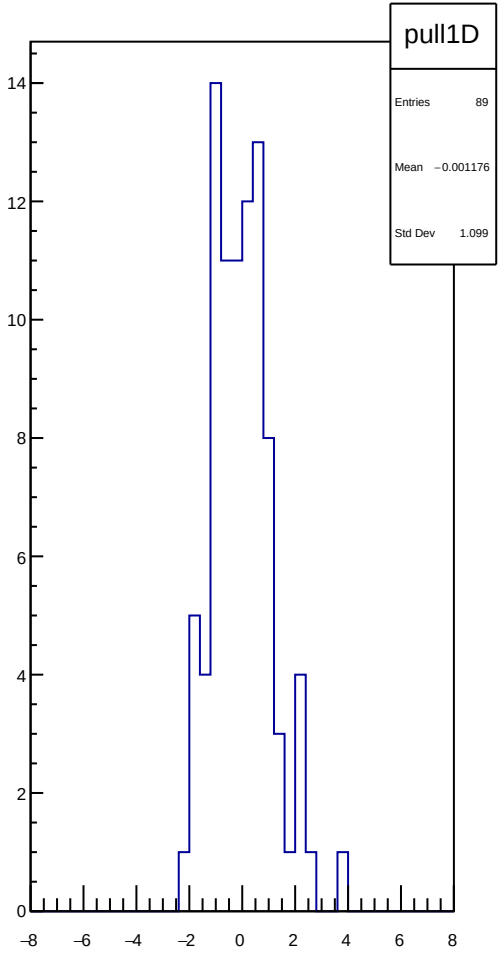

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1942 / 88
p0 4393 ± 3.285
5000
4800
4600
4400
4200
4000

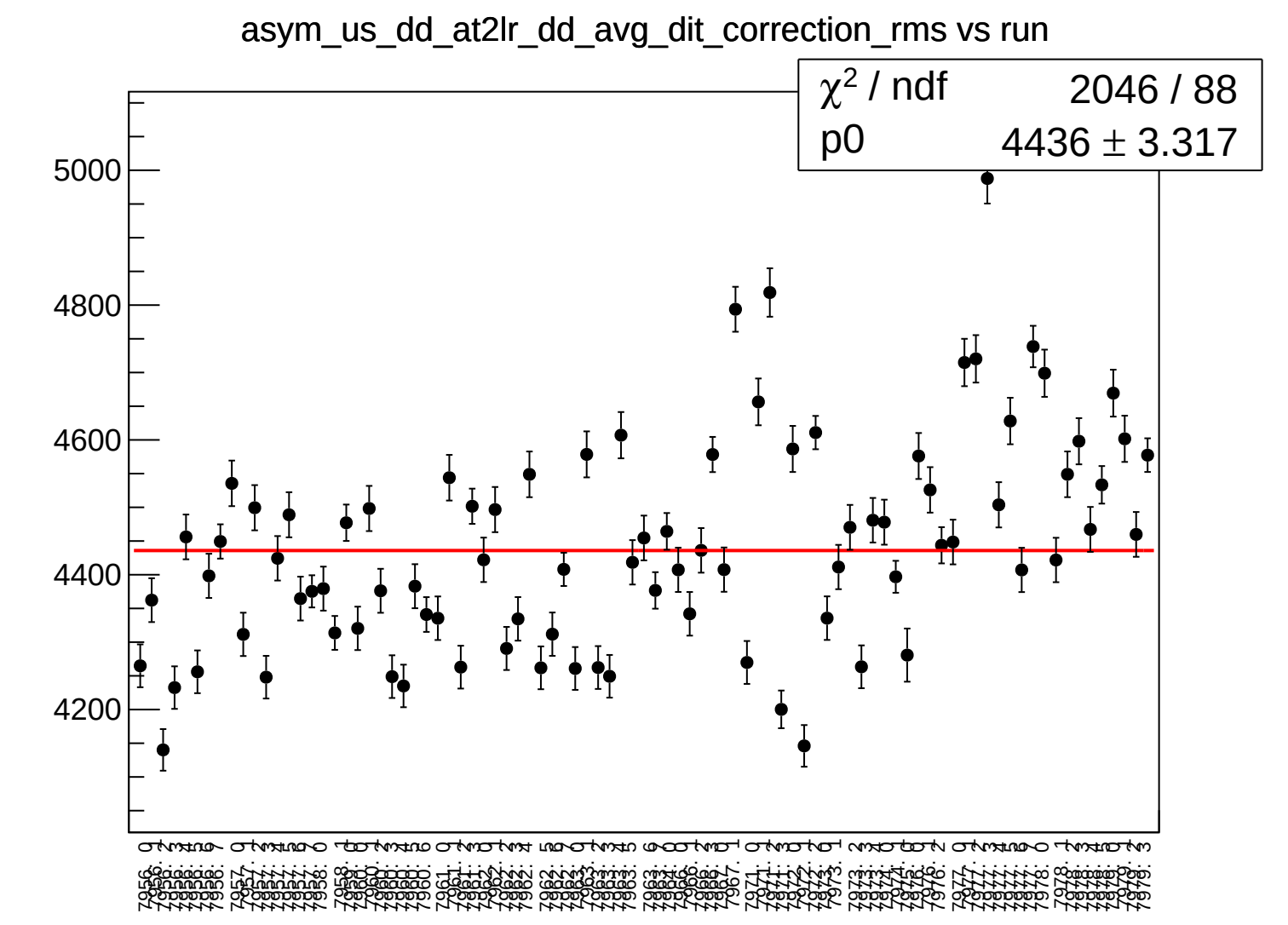

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.22 / 88
p0 224 ± 2291
pull
Entries 89
Mean −200.7
Std Dev 0

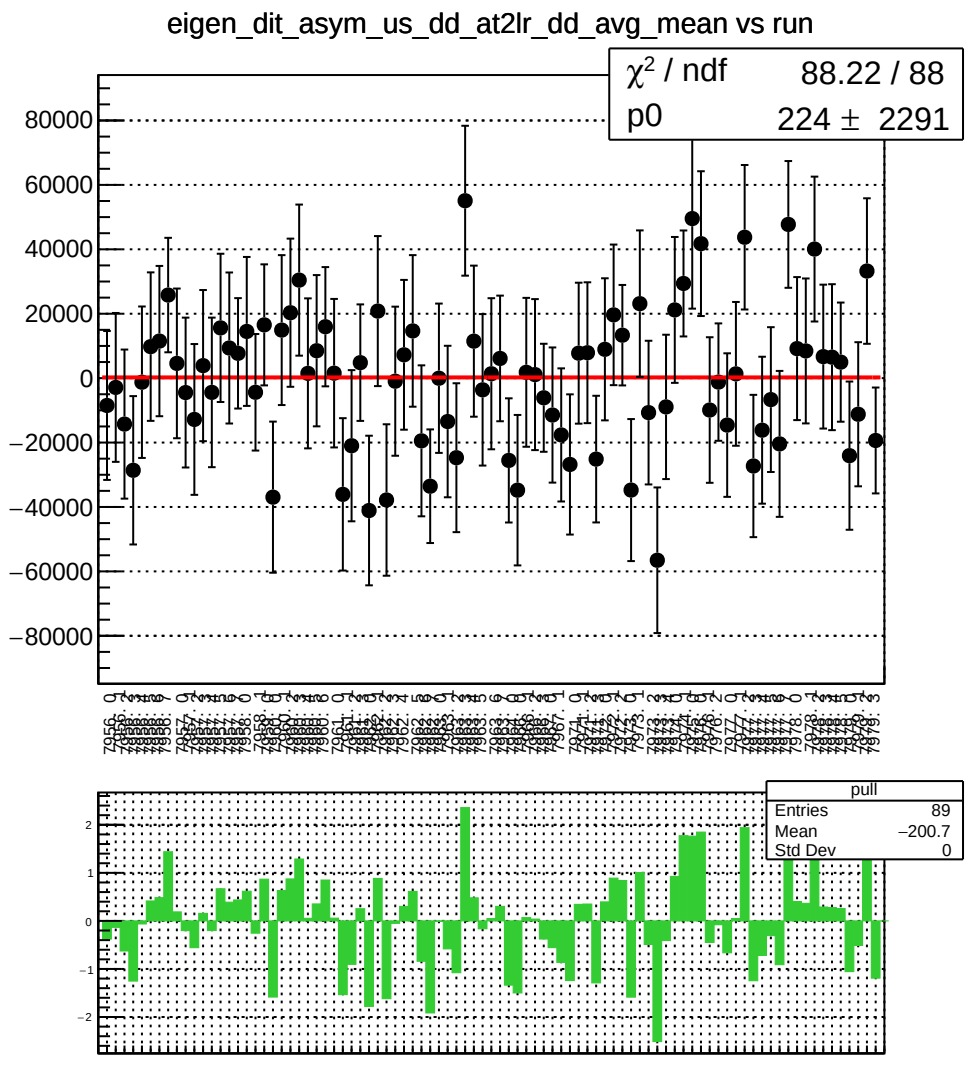

pull1D
Entries 89
Mean −0.005978
Std Dev 0.9956

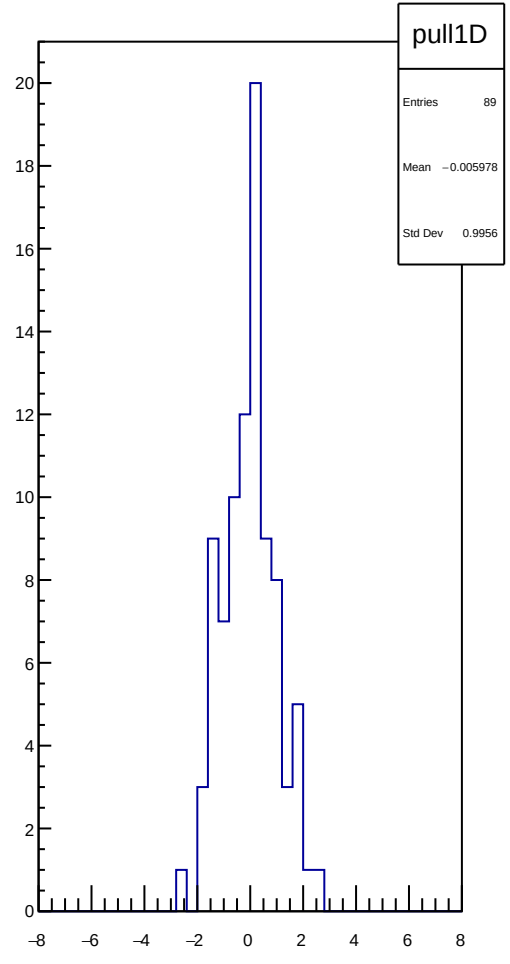

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1147 / 88
p0 2167 ± 1.62
2250
2200
2150
2100
2050
2000
1950

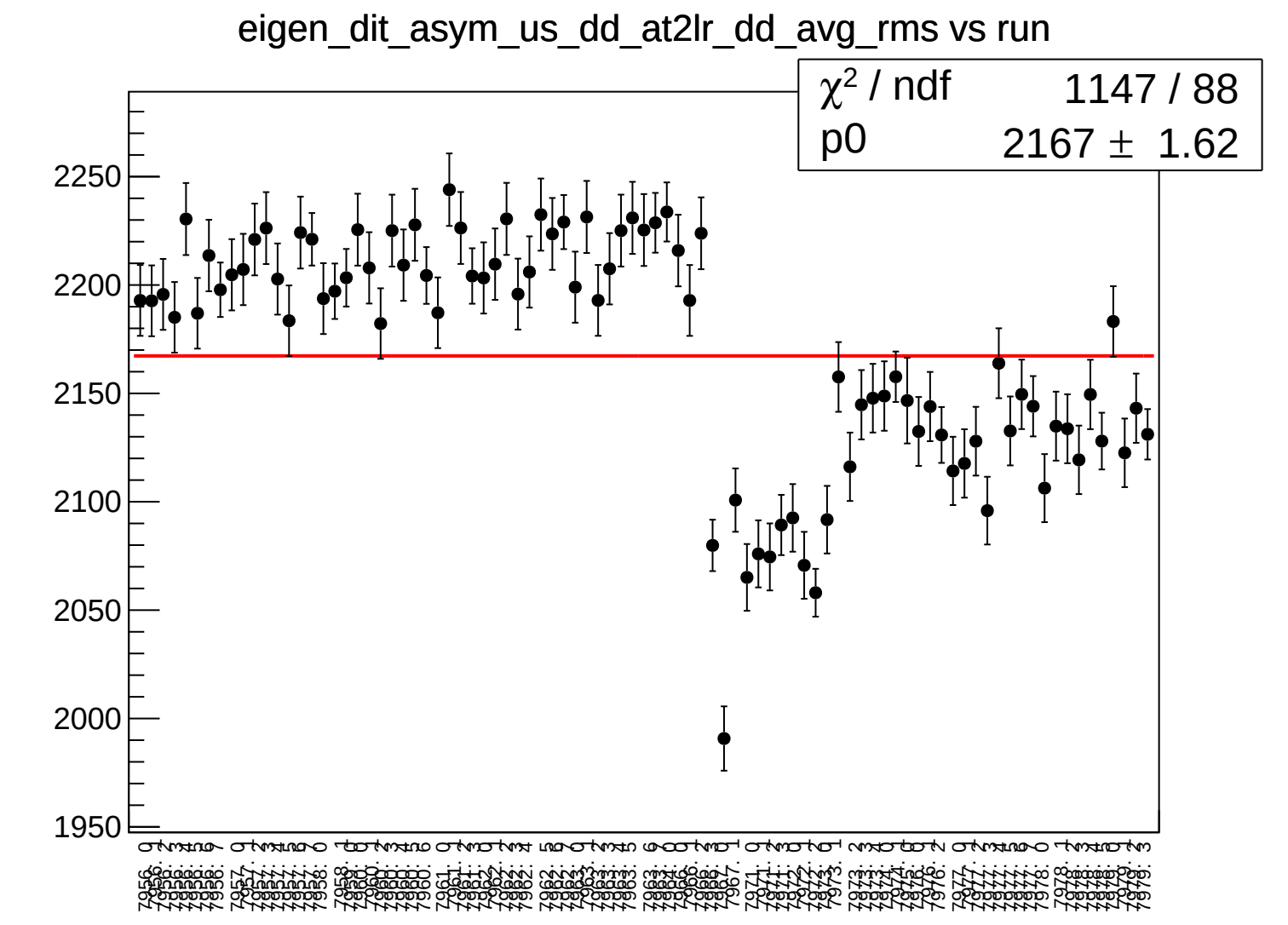

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.5 / 88
p0 1336 ± 4691
pull
Entries 89
Mean −2868
Std Dev 0

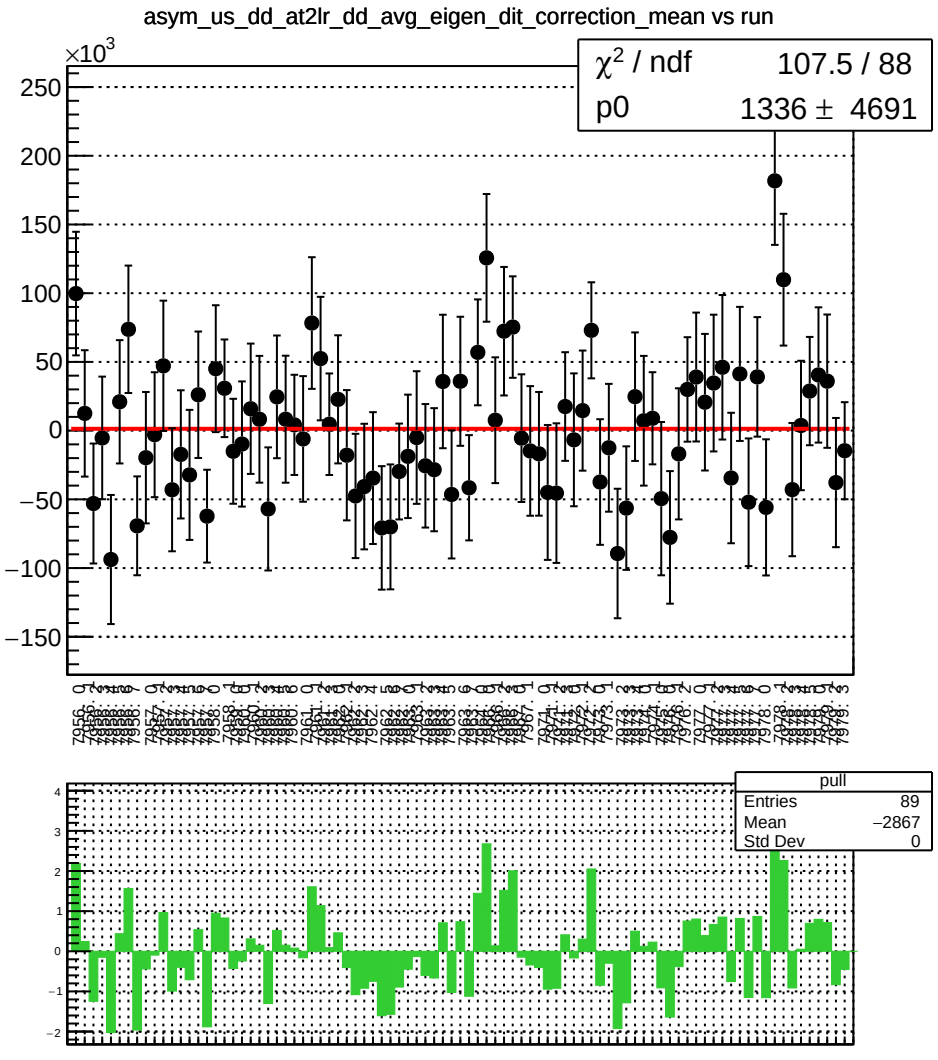

pull1D
Entries 89
Mean −0.001176
Std Dev 1.099

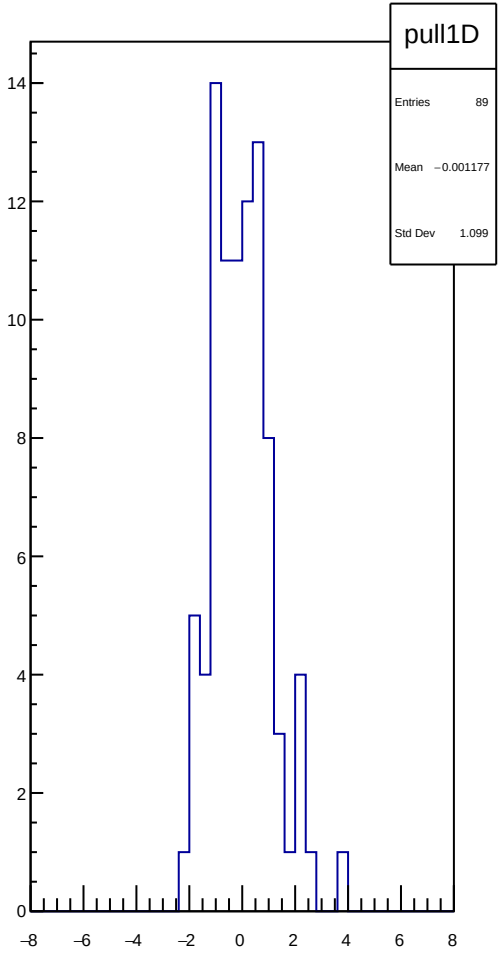

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2046 / 88
p0 4436 ± 3.317
5000
4800
4600
4400
4200

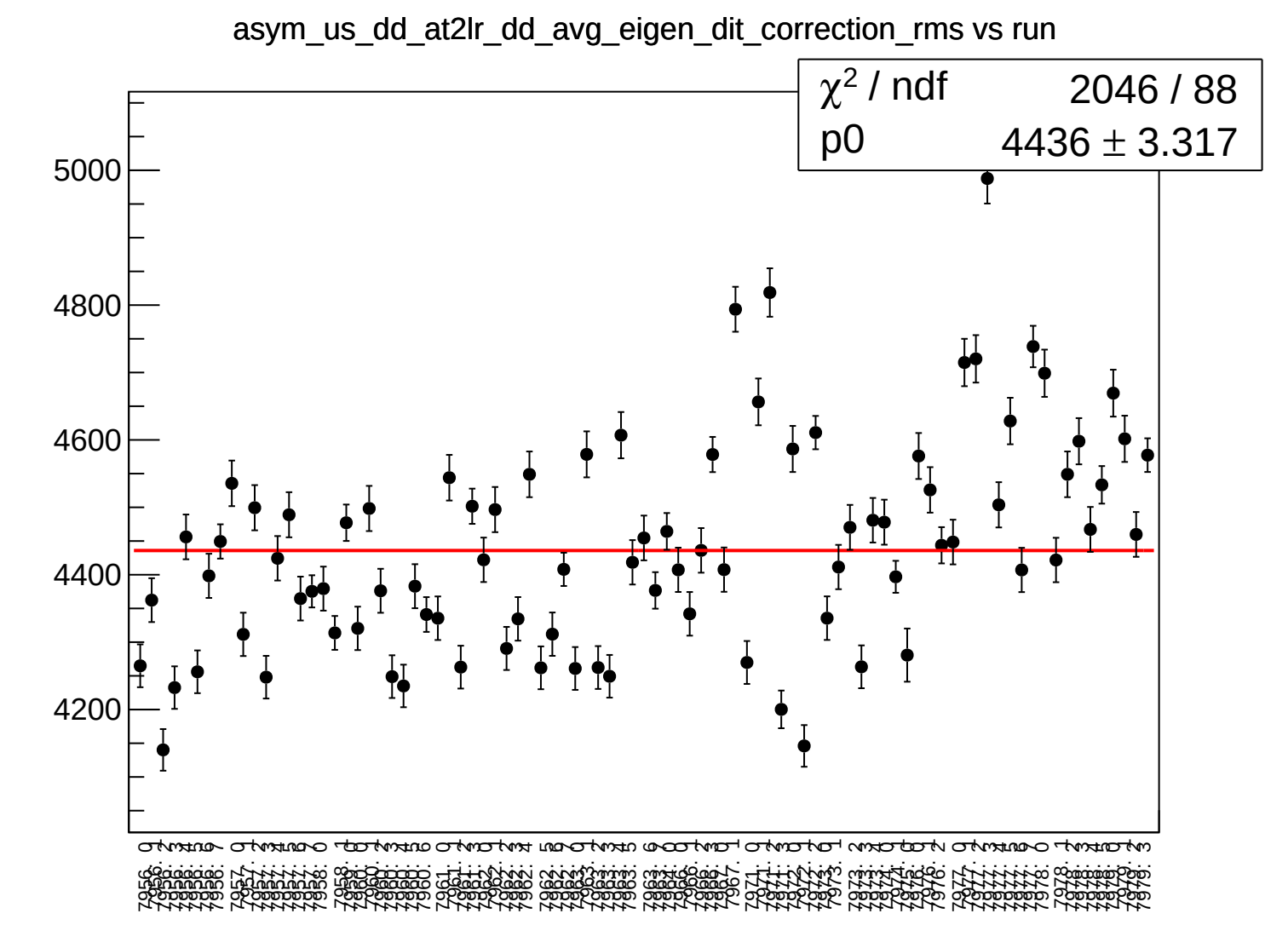

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.22 / 88
p0 224 ± 2291
pull
Entries 89
Mean −200.7
Std Dev 0

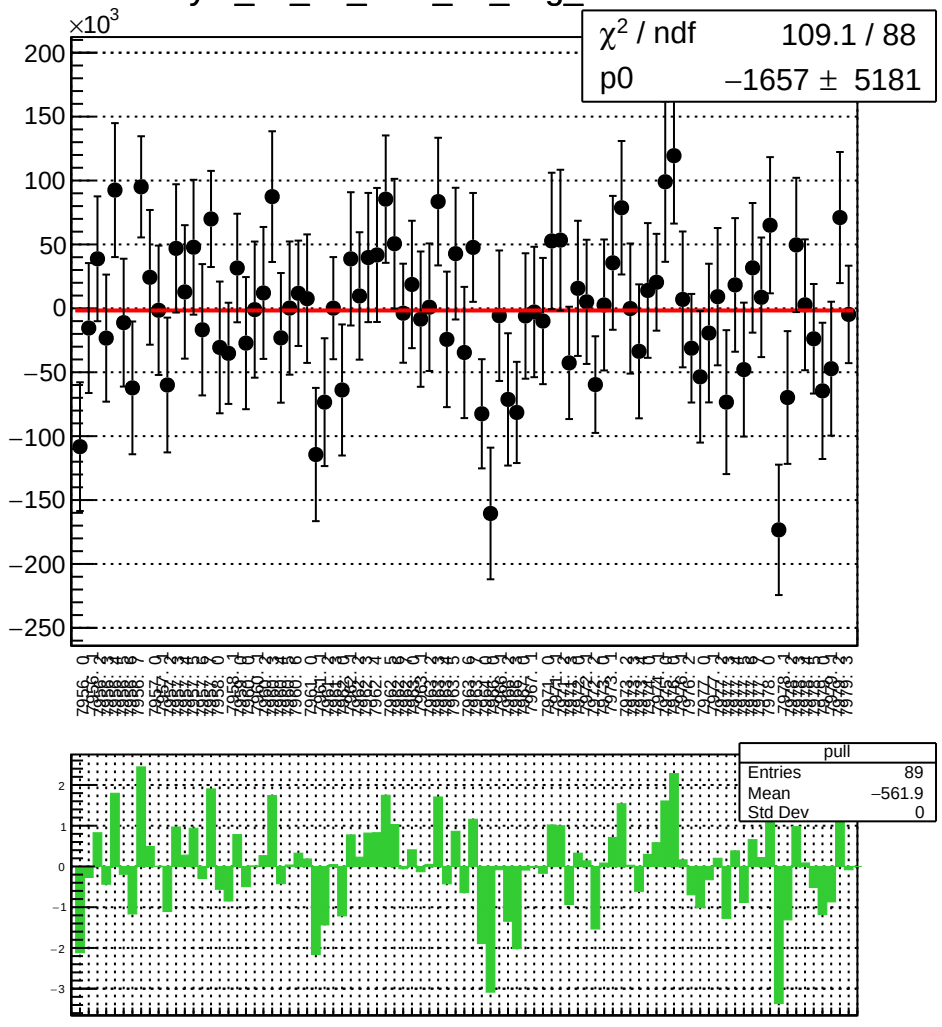

pull1D
Entries 89
Mean −0.005978
Std Dev 0.9956

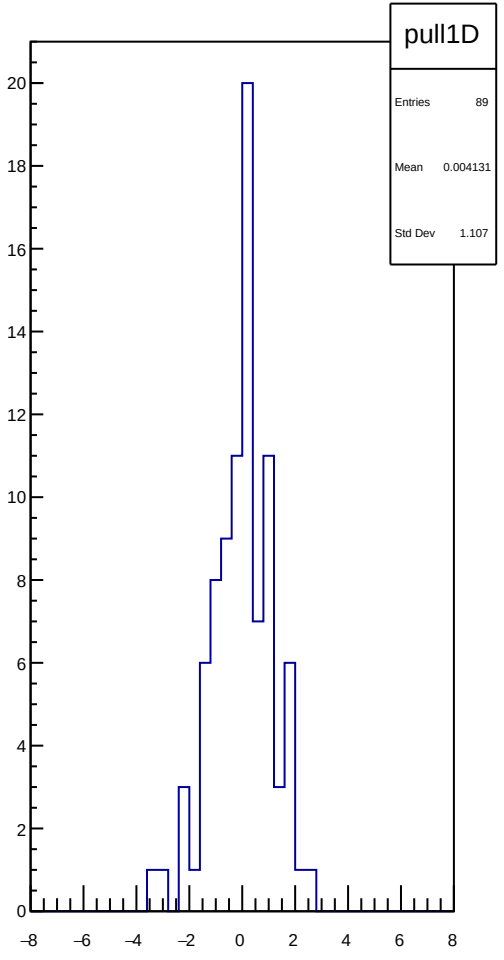

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1147 / 88
p0 2167 ± 1.62
2250
2200
2150
2100
2050
2000
1950

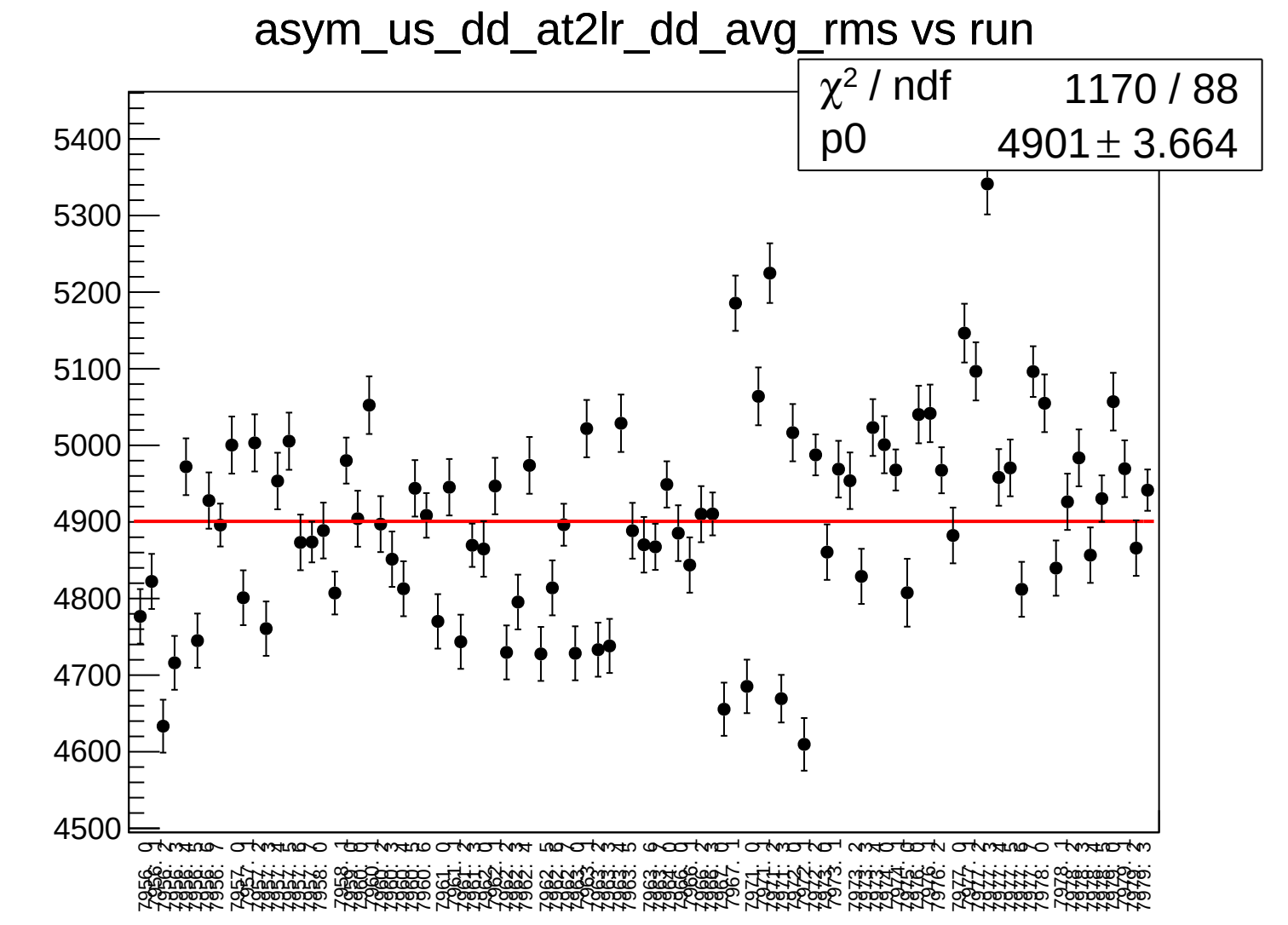

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.5 / 88
p0 1336 ± 4691
pull
Entries 89
Mean −2867
Std Dev 0

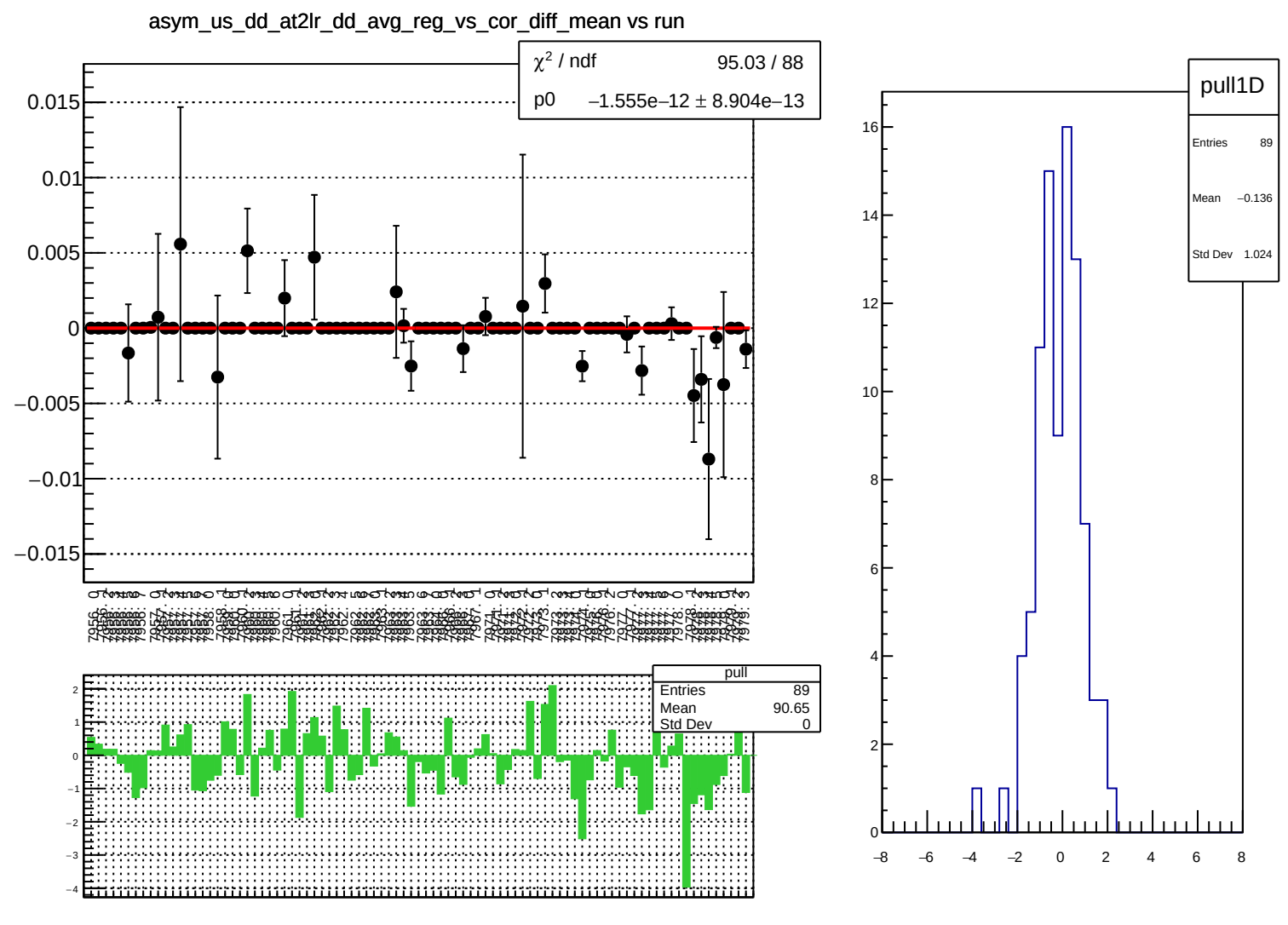

pull1D
Entries 89
Mean −0.001177
Std Dev 1.099

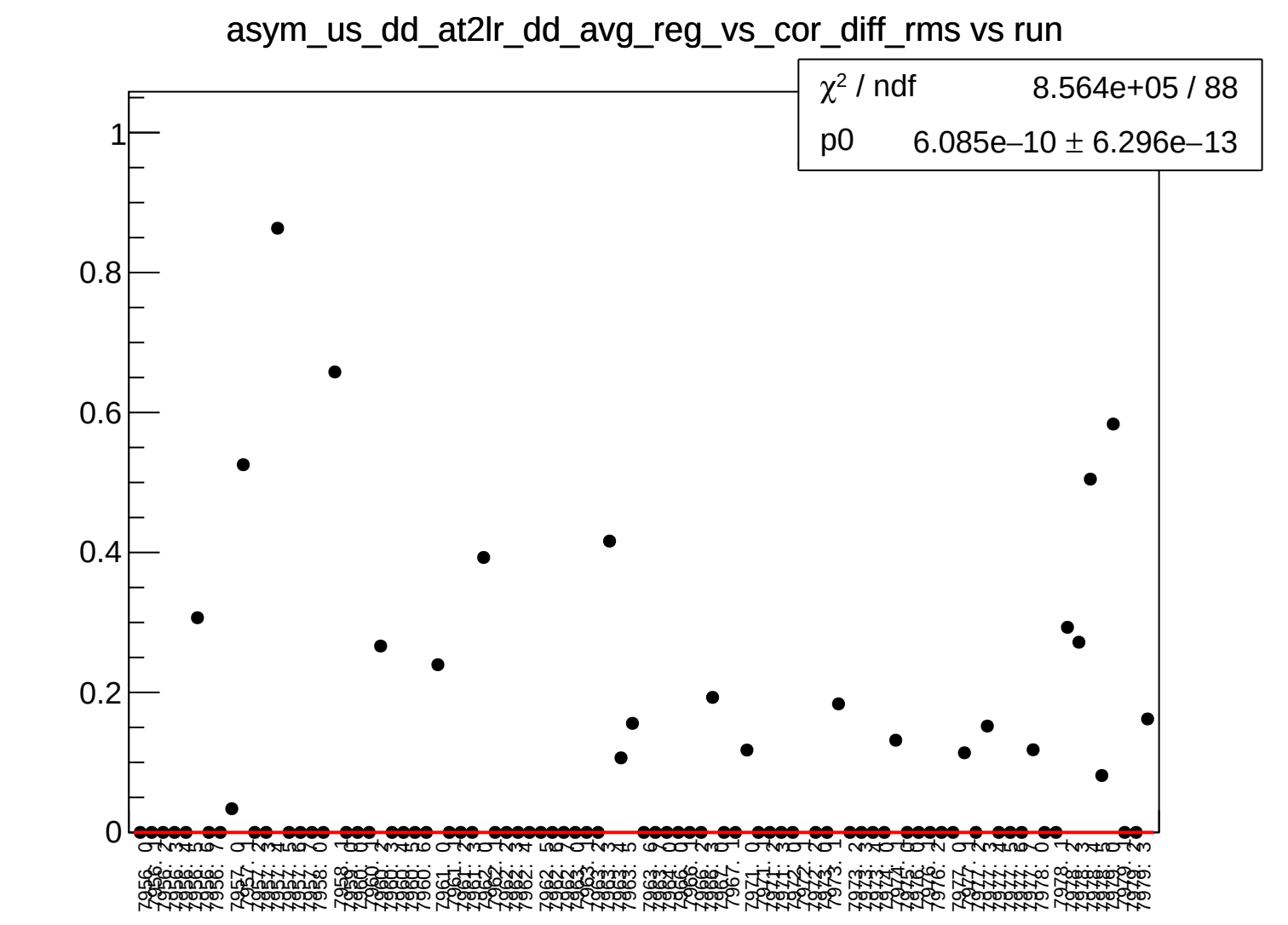

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2046 / 88
p0 4436 ± 3.317
5000
4800
4600
4400
4200

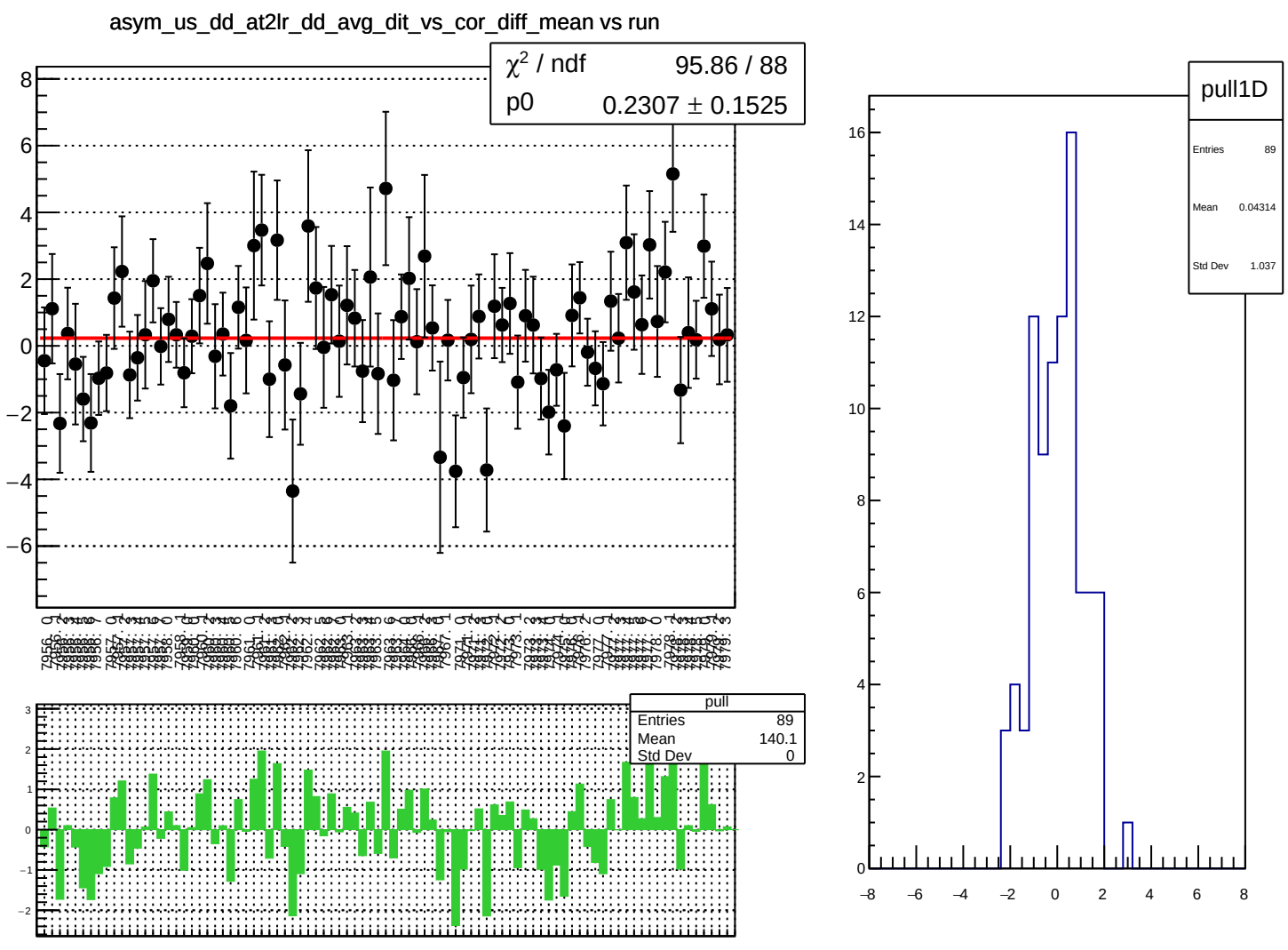

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 109.1 / 88
p0 −1657 ± 5181
pull
Entries 89
Mean −561.9
Std Dev 0

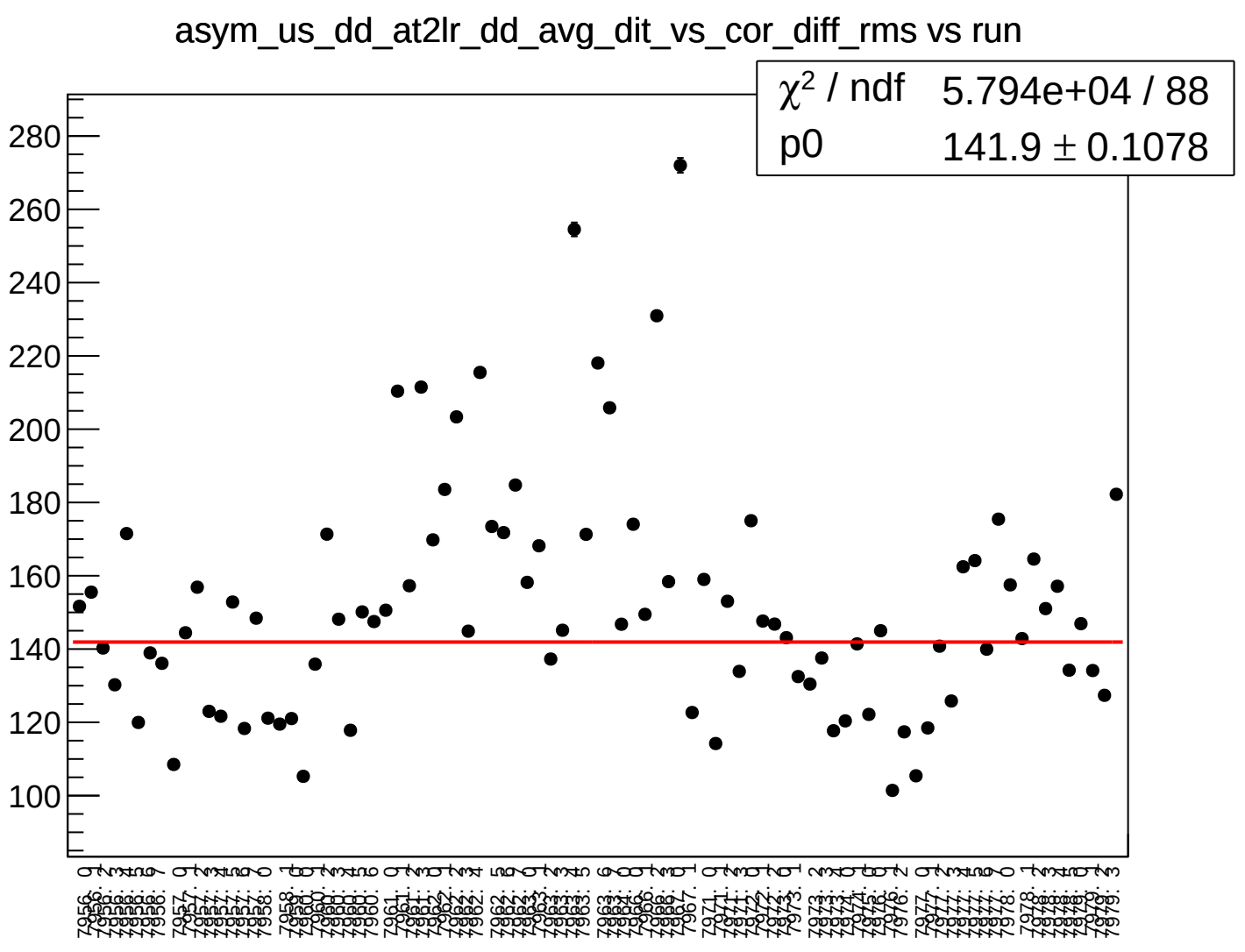

pull1D
Entries 89
Mean 0.004131
Std Dev 1.107

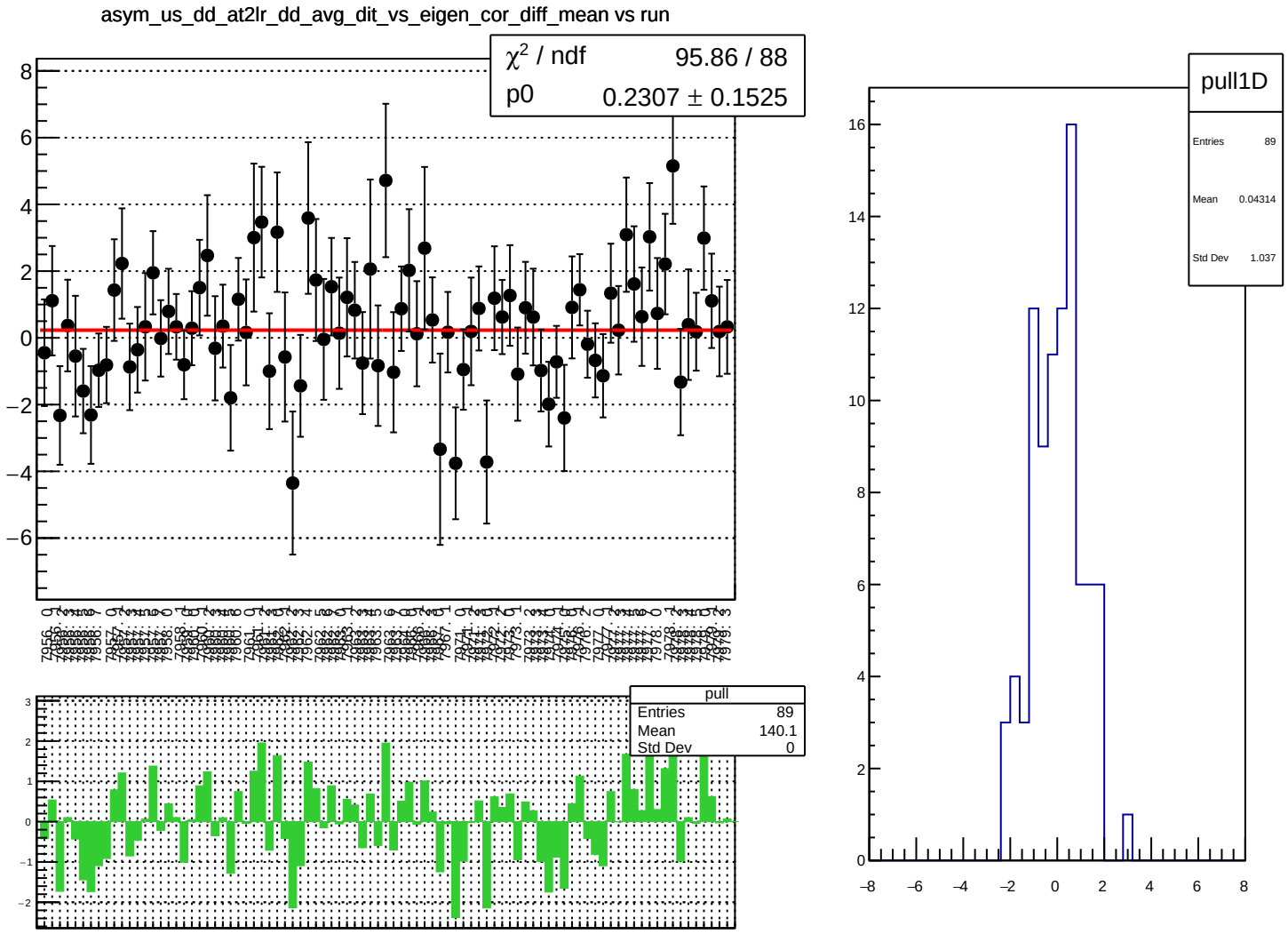

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1170 / 88
p0 4901 ± 3.664
5400
5300
5200
5100
5000
4900
4800
4700
4600
4500

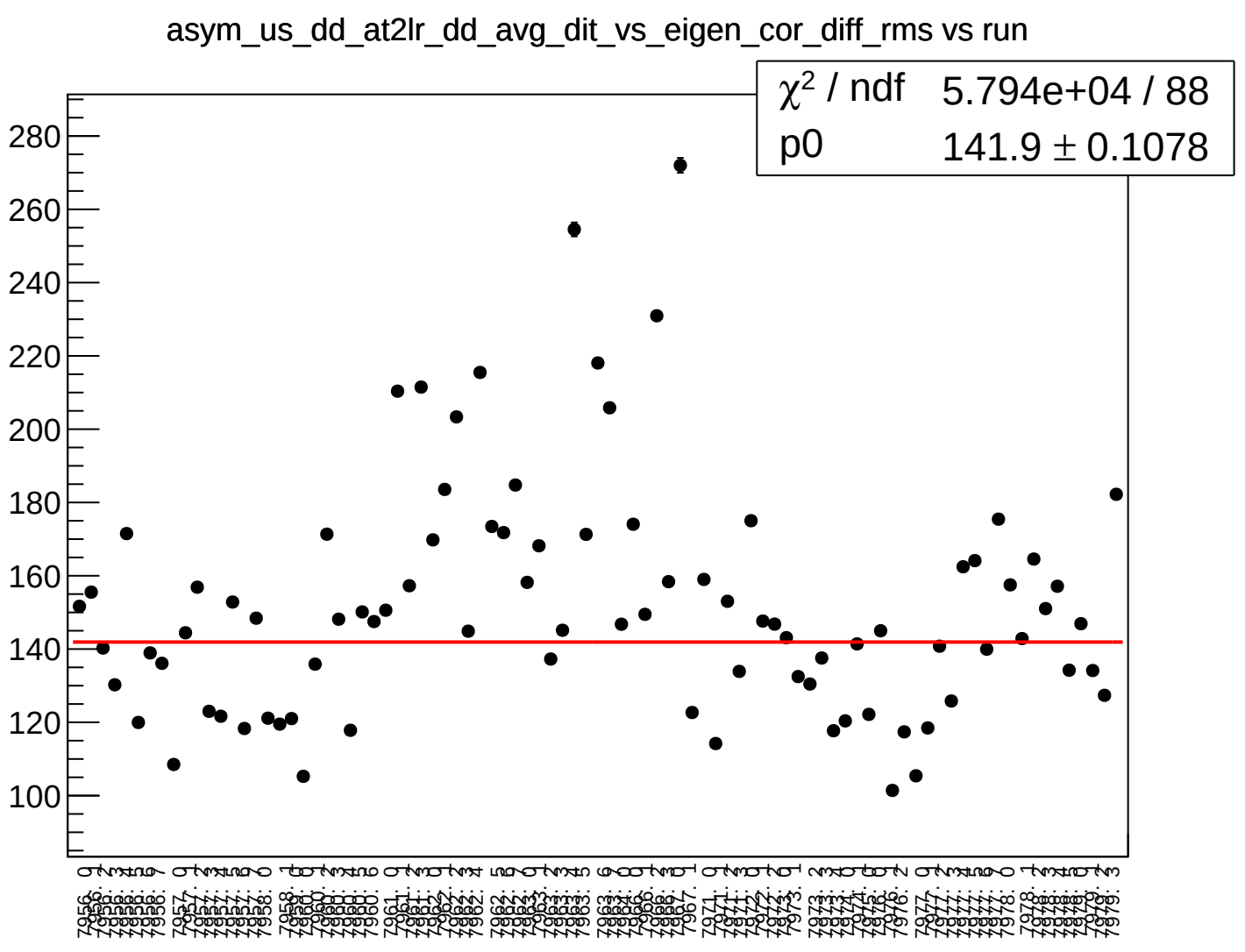

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.03 / 88
p0 −1.555e−12 ± 8.904e−13
pull
Entries 89
Mean 90.65
Std Dev 0
pull1D
Entries 89
Mean −0.136
Std Dev 1.024

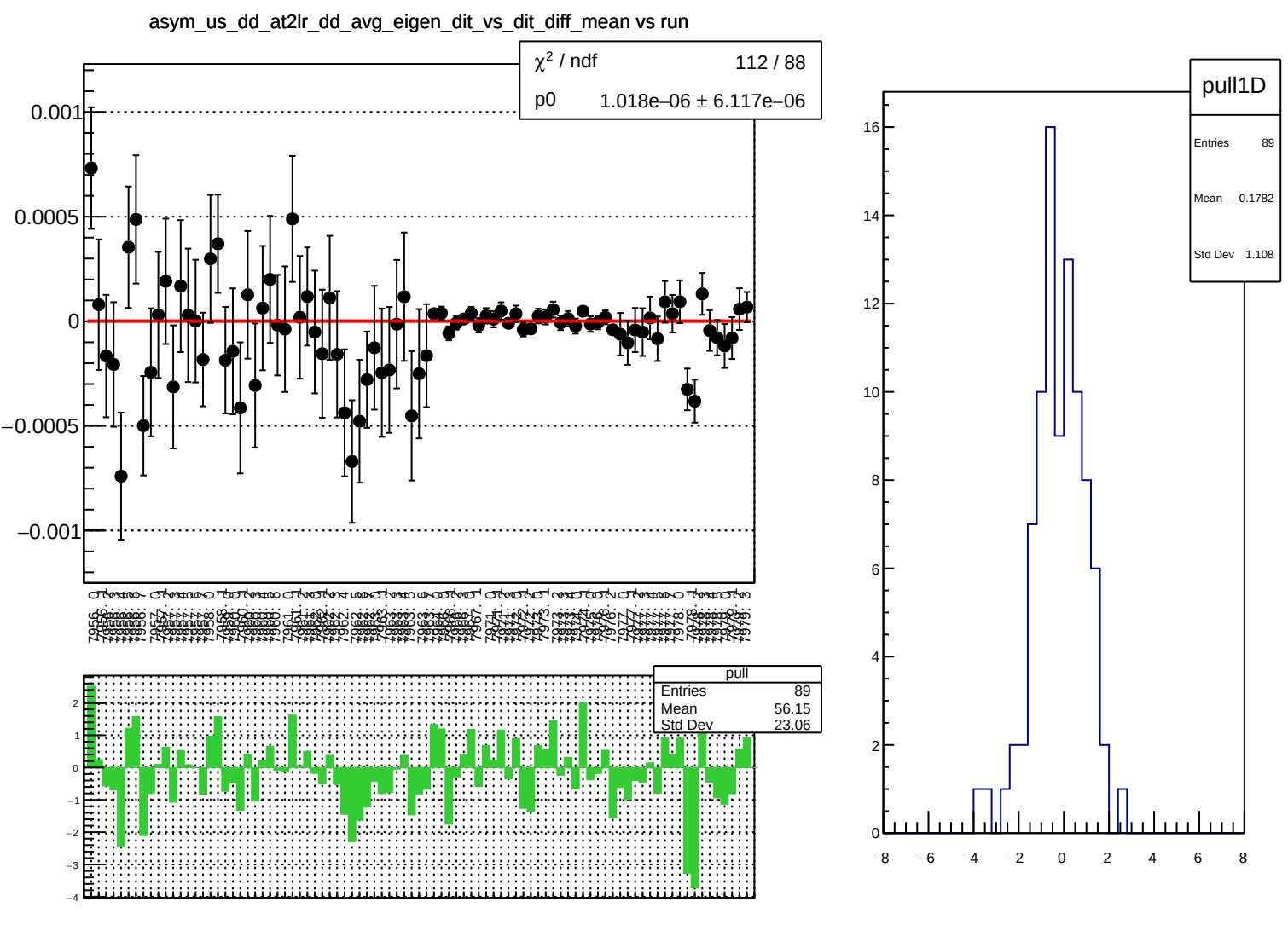

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.564e+05 / 88
p0 6.085e−10 ± 6.296e−13
1
0.8
0.6
0.4
0.2
0

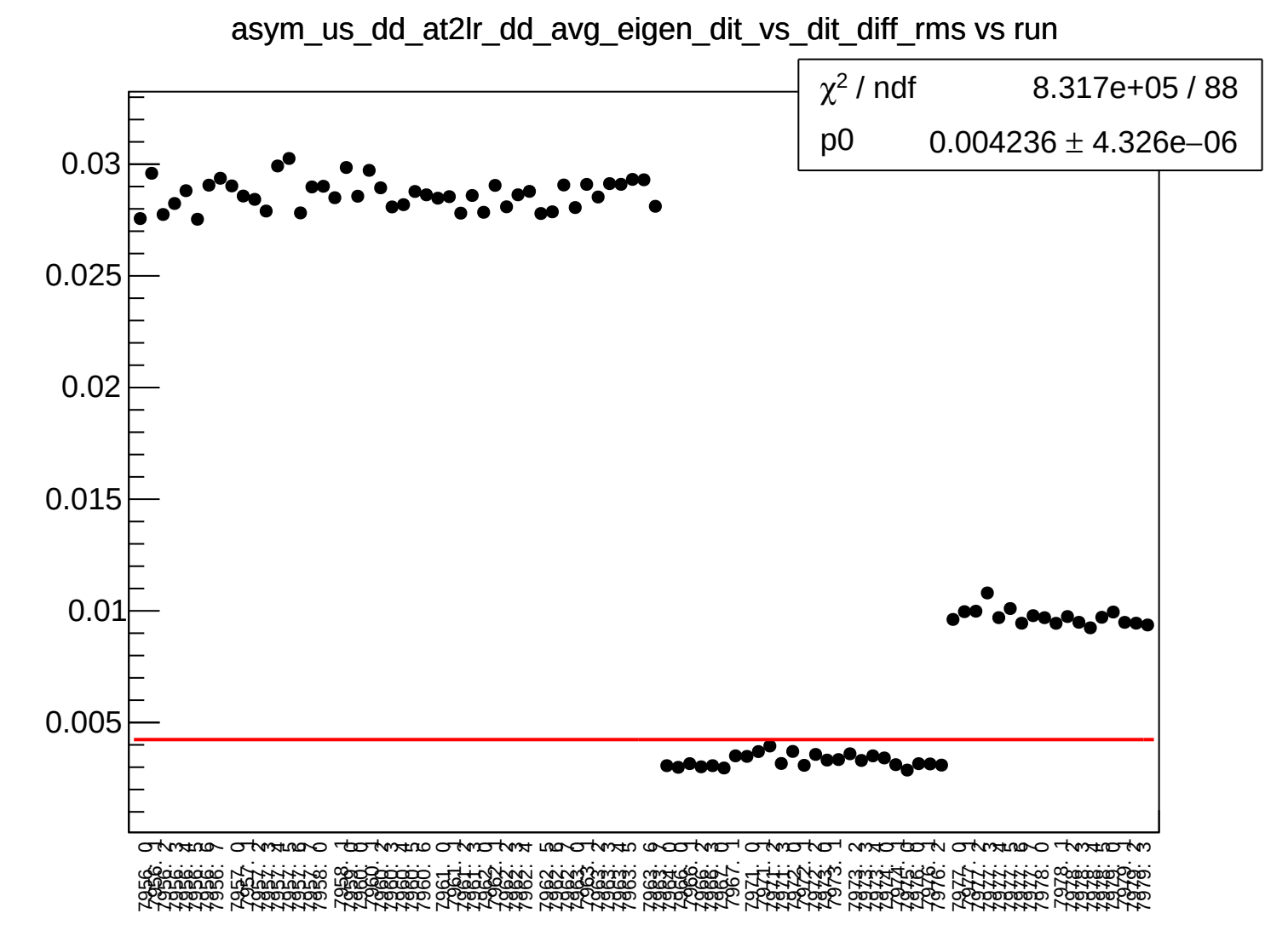

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.86 / 88
p0 0.2307 ± 0.1525
pull
Entries 89
Mean 140.1
Std Dev 0
pull1D
Entries 89
Mean 0.04314
Std Dev 1.037

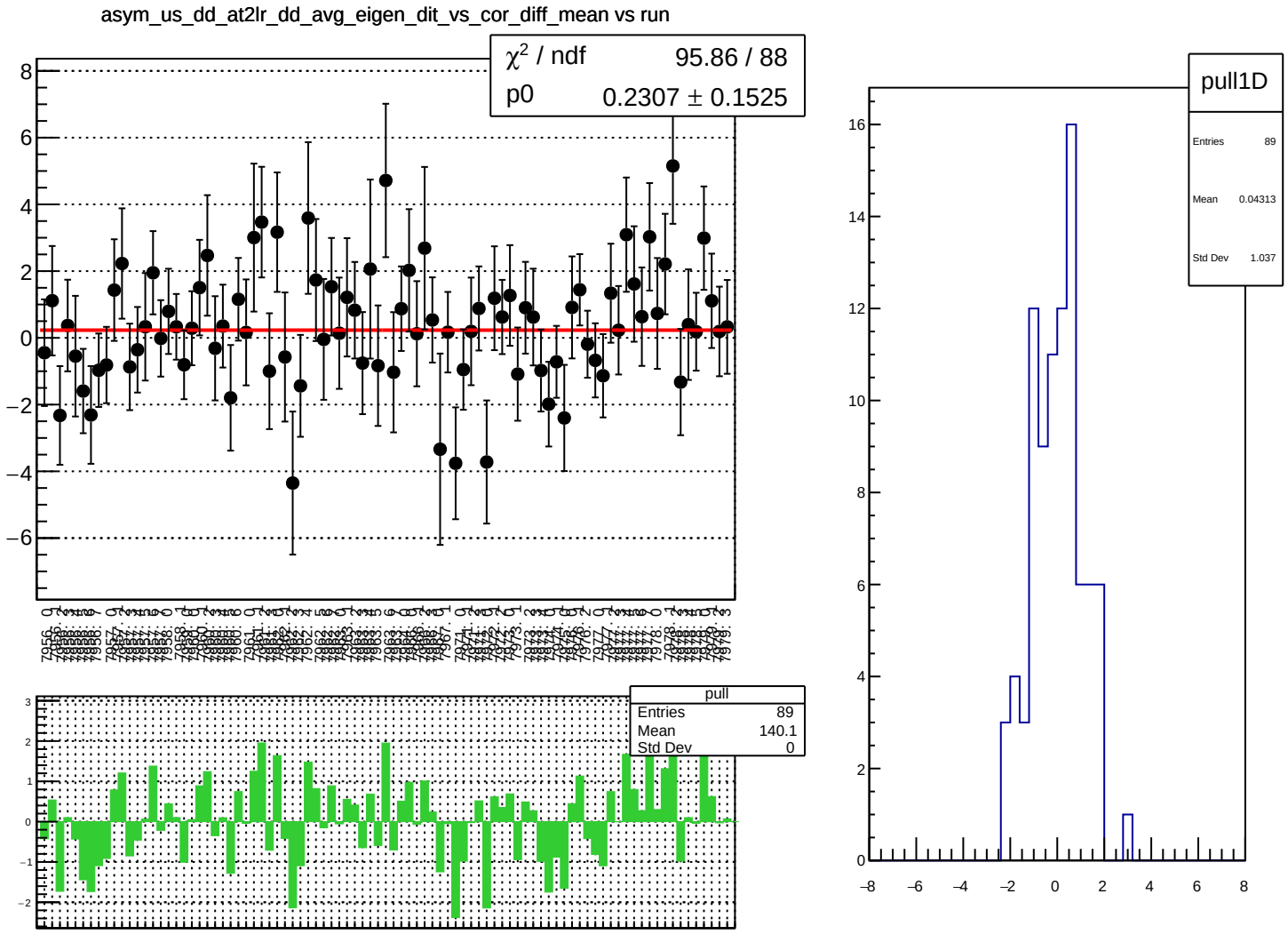

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.794e+04 / 88
p0 141.9 ± 0.1078
280
260
240
220
200
180
160
140
120
100

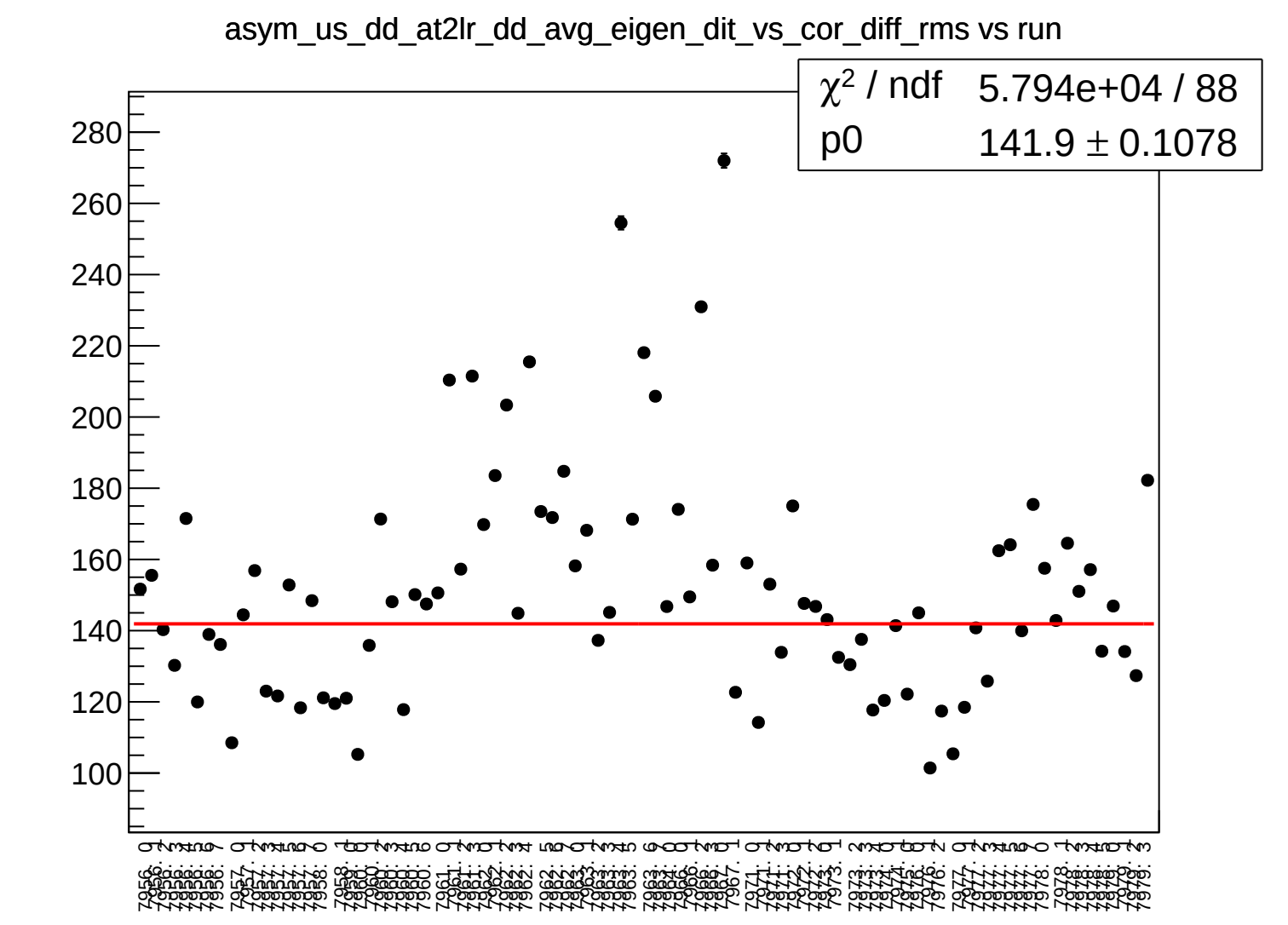

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.86 / 88
p0 0.2307 ± 0.1525
pull
Entries 89
Mean 140.1
Std Dev 0
pull1D
Entries 89
Mean 0.04314
Std Dev 1.037

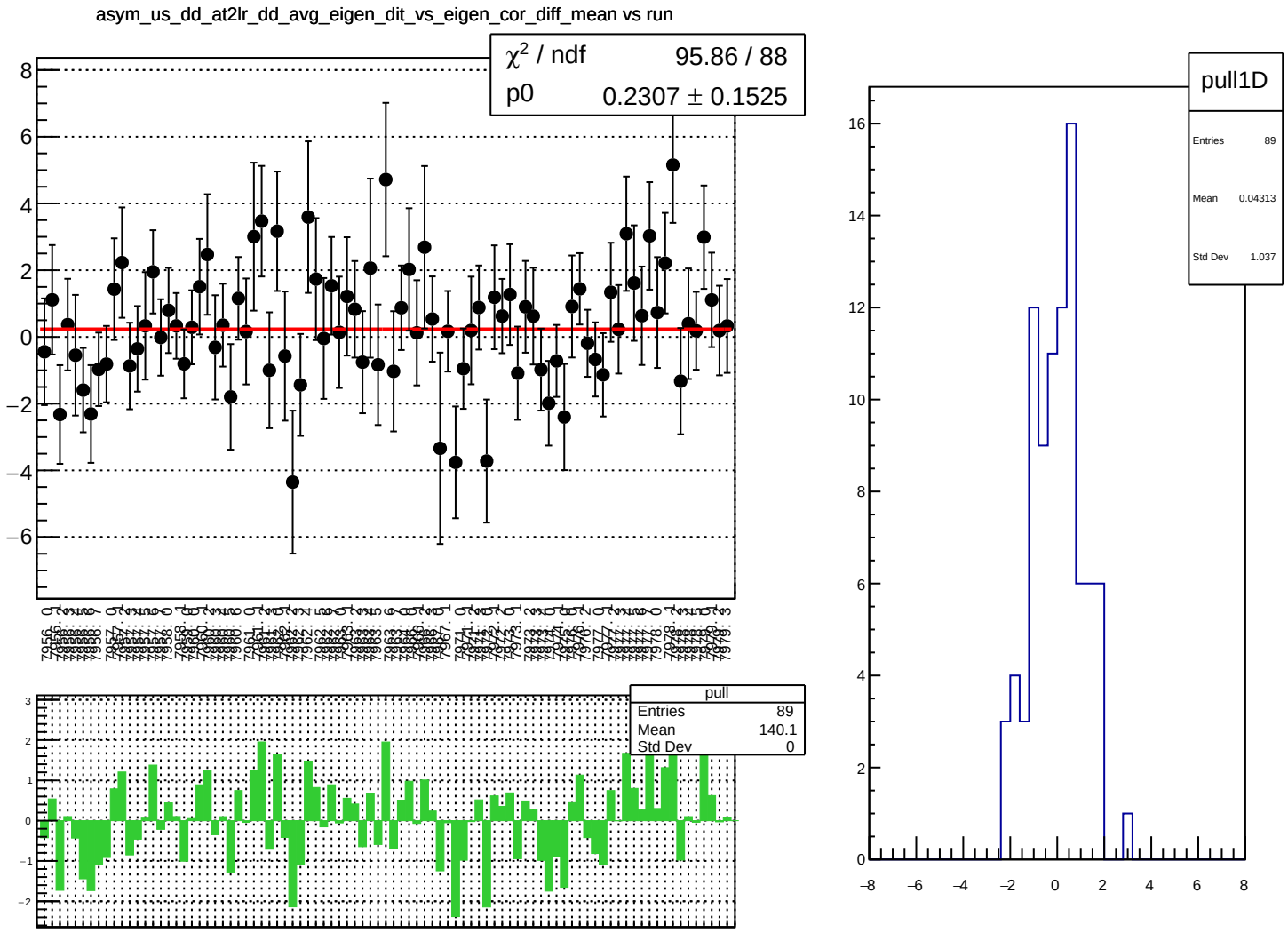

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.794e+04 / 88
p0 141.9 ± 0.1078
280
260
240
220
200
180
160
140
120
100

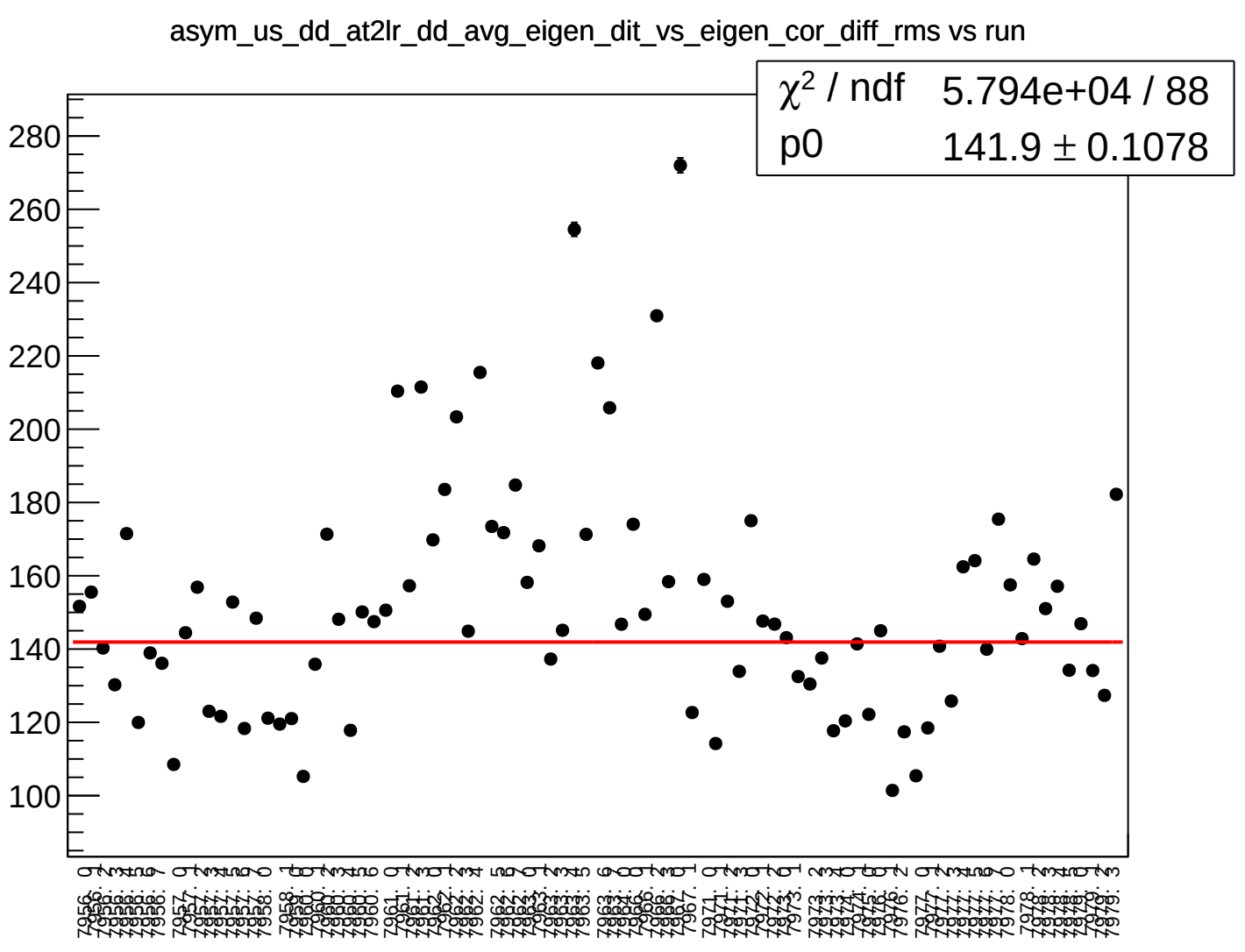

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 112 / 88
p0 1.018e−06 ± 6.117e−06
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 56.15
Std Dev 23.06
pull1D
Entries 89
Mean −0.1782
Std Dev 1.108

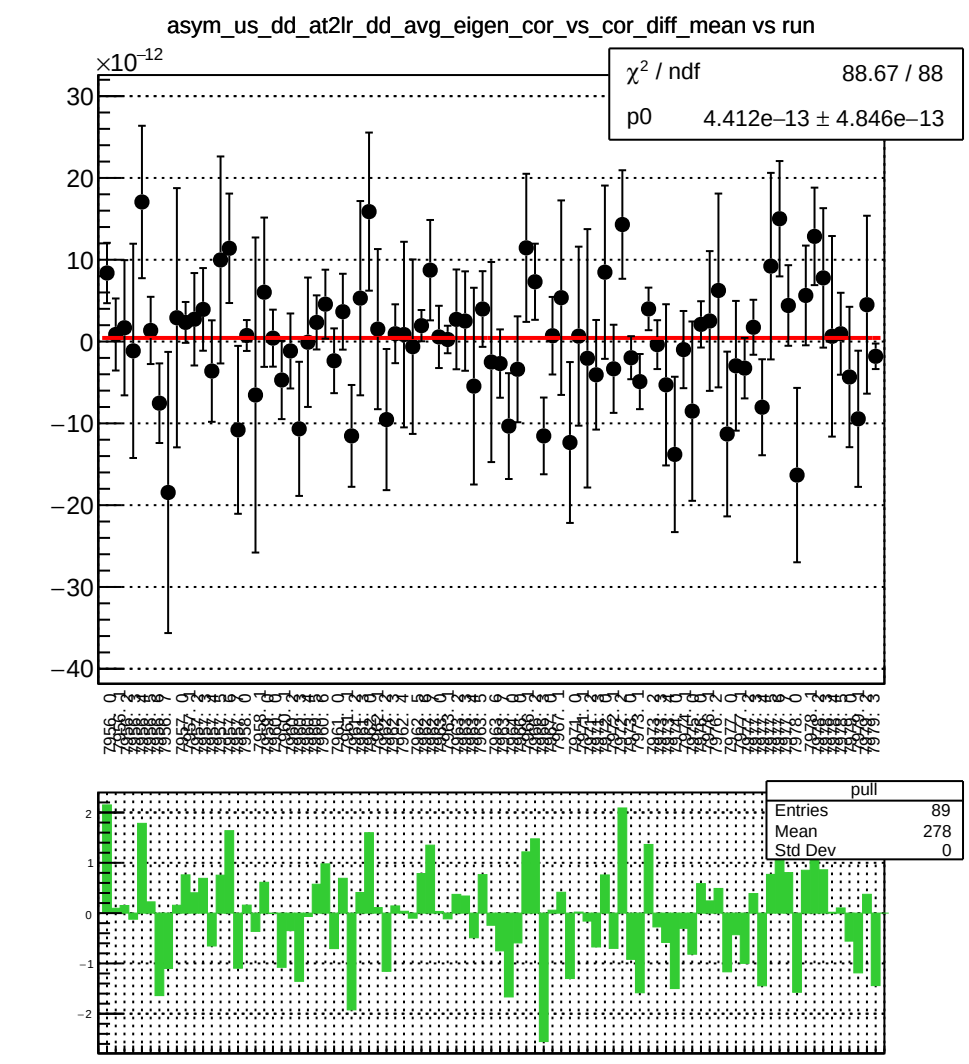

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.317e+05 / 88
p0 0.004236 ± 4.326e−06
0.03
0.025
0.02
0.015
0.01
0.005

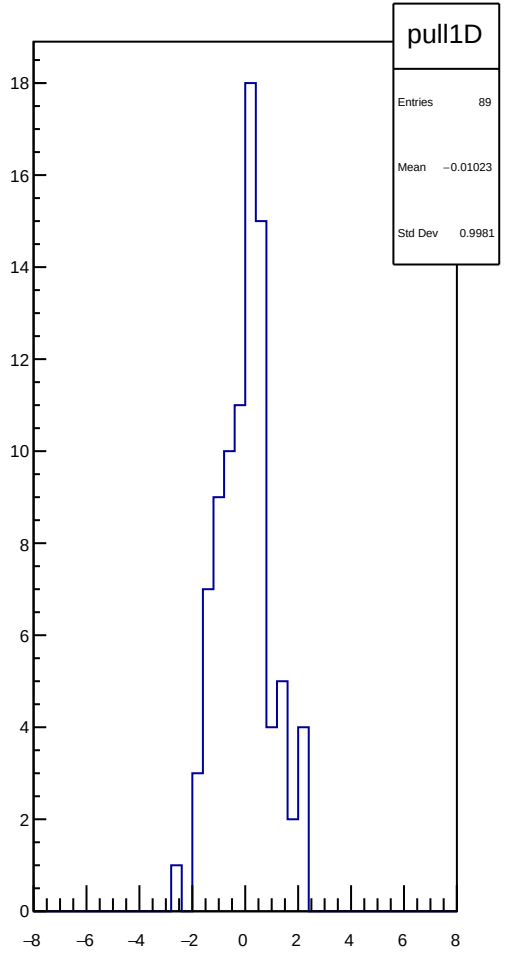

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.86 / 88
p0 0.2307 ± 0.1525
pull
Entries 89
Mean 140.1
Std Dev 0
pull1D
Entries 89
Mean 0.04313
Std Dev 1.037

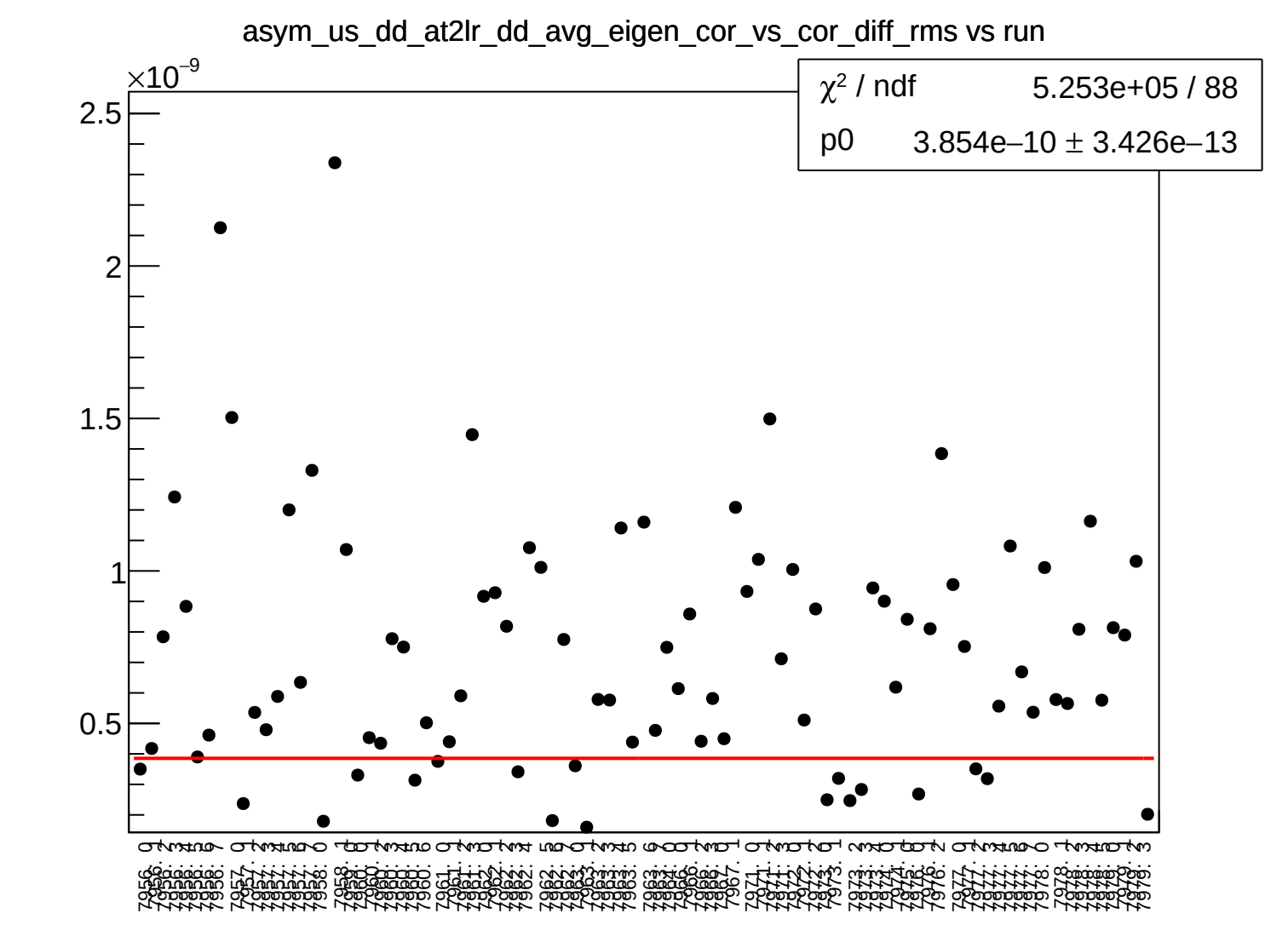

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.794e+04 / 88
p0 141.9 ± 0.1078
280
260
240
220
200
180
160
140
120
100

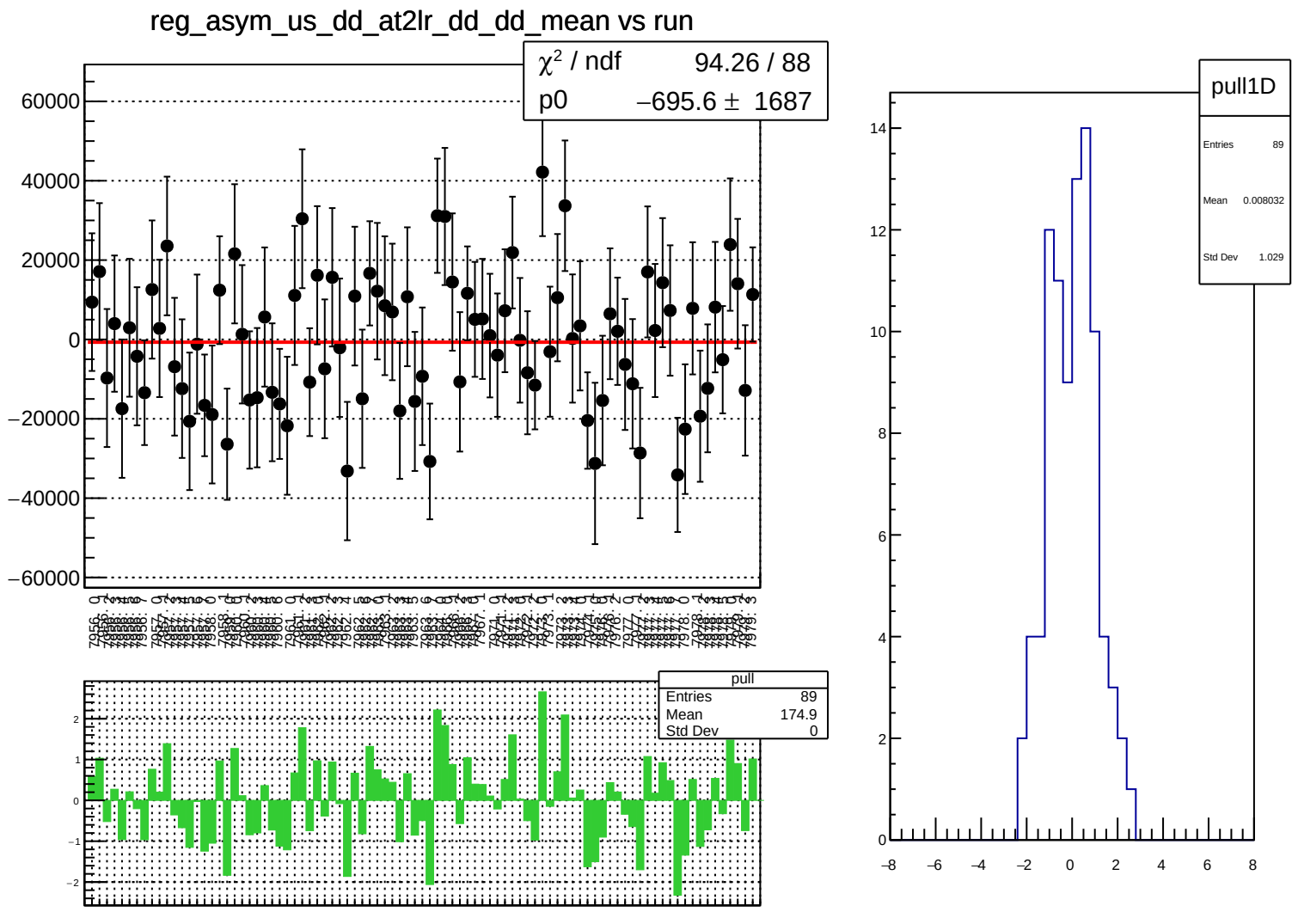

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.86 / 88
p0 0.2307 ± 0.1525
pull
Entries 89
Mean 140.1
Std Dev 0
pull1D
Entries 89
Mean 0.04313
Std Dev 1.037

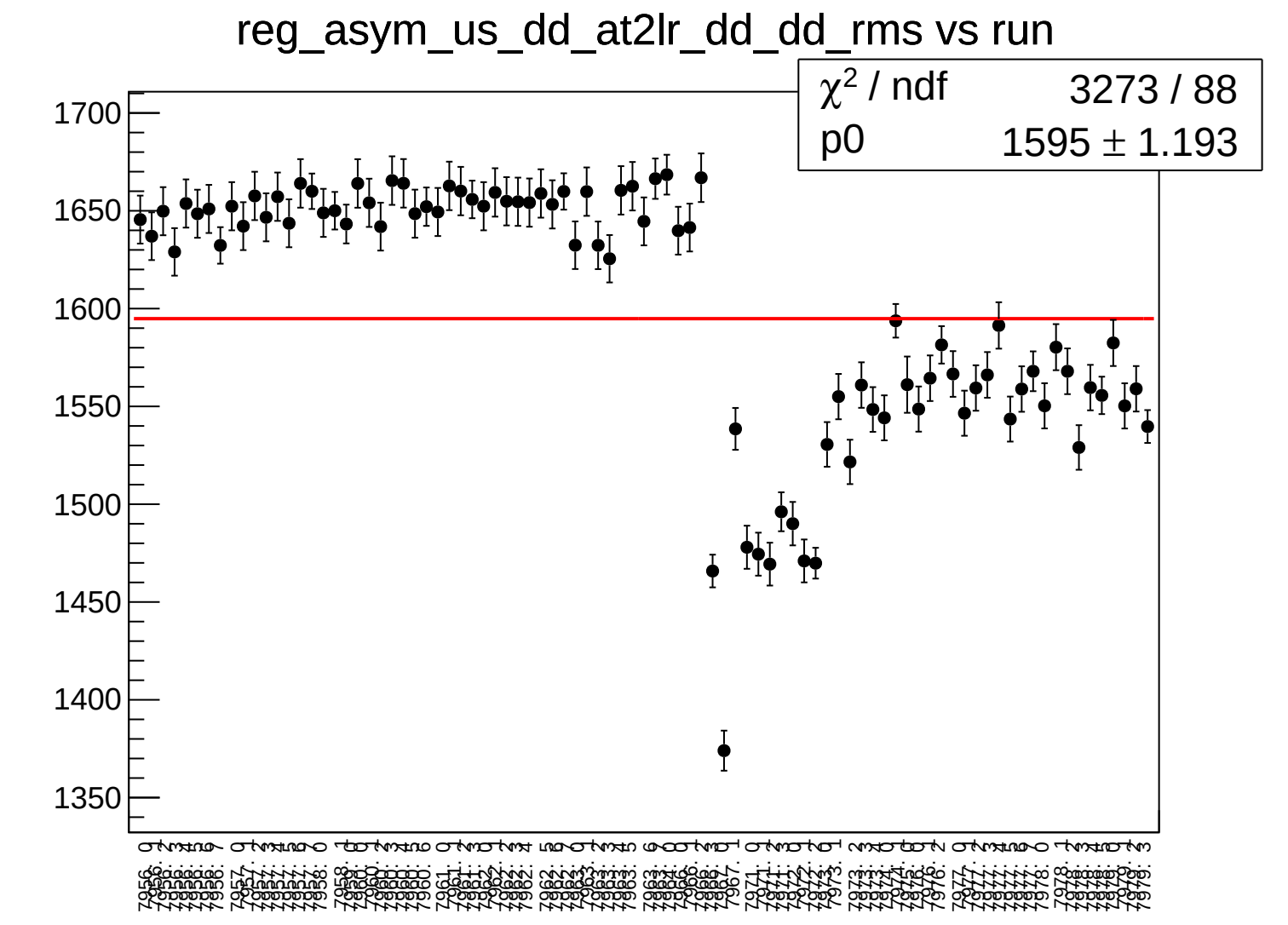

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.794e+04 / 88
p0 141.9 ± 0.1078
280
260
240
220
200
180
160
140
120
100

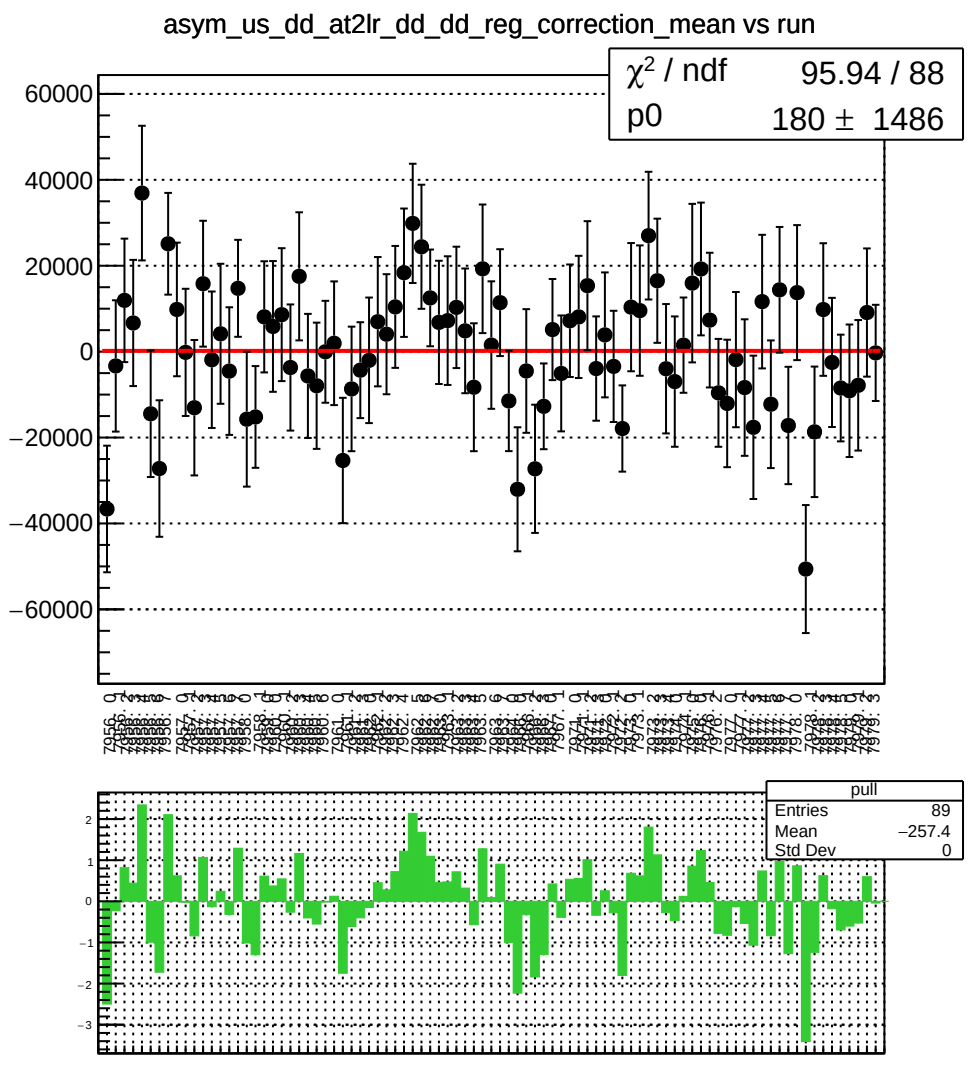

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.67 / 88
p0 4.412e−13 ± 4.846e−13
pull
Entries 89
Mean 278
Std Dev 0

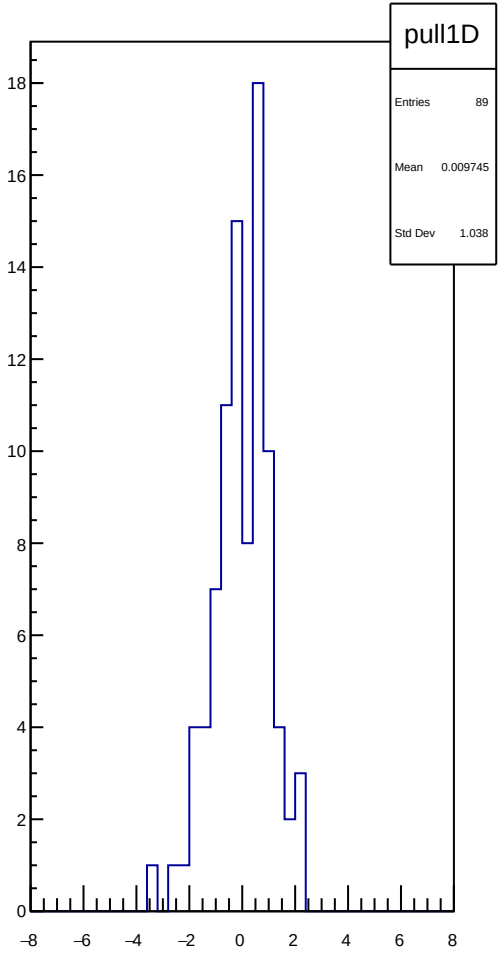

pull1D
Entries 89
Mean −0.01023
Std Dev 0.9981

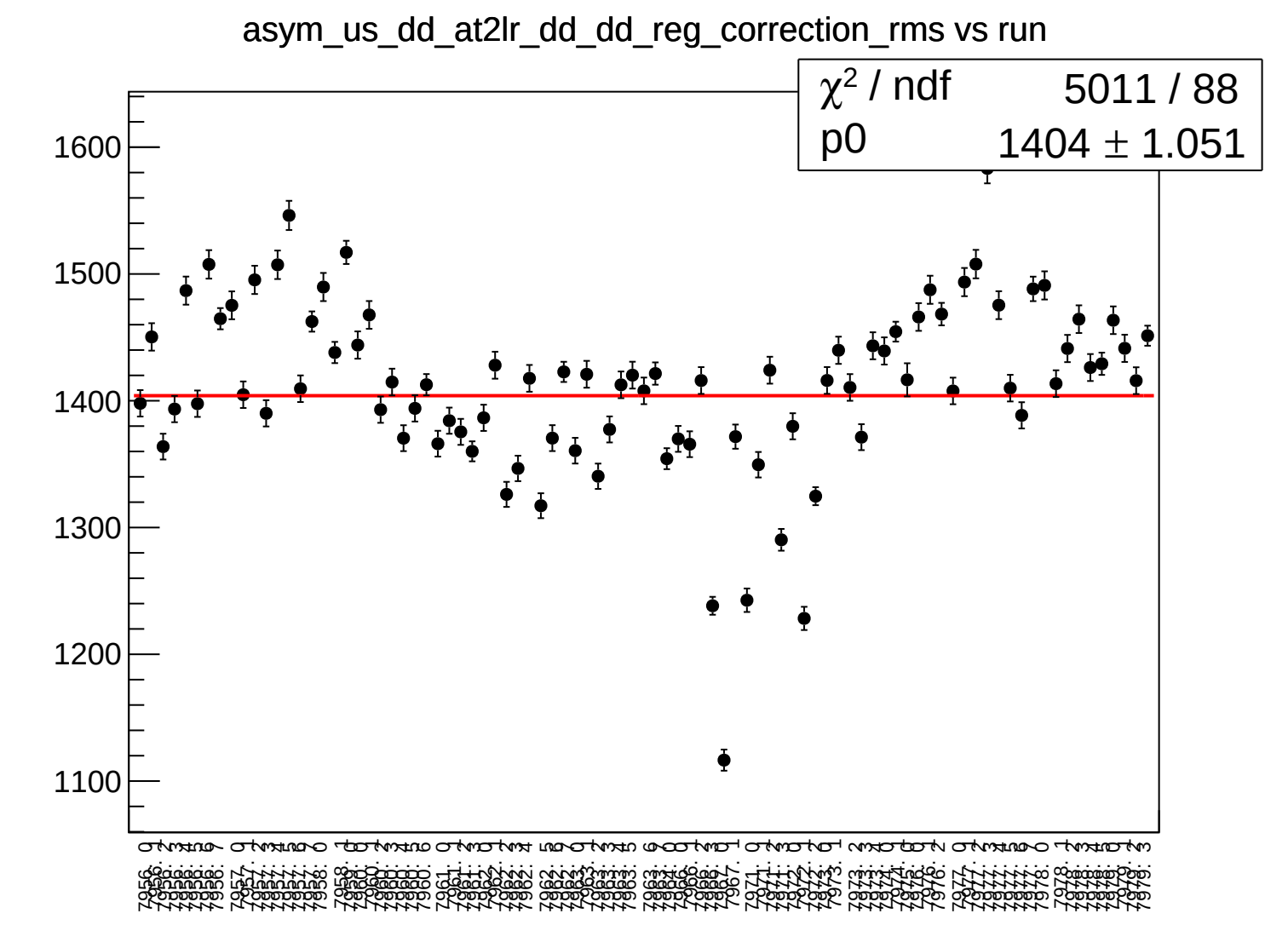

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 5.253e+05 / 88
p0 3.854e−10 ± 3.426e−13

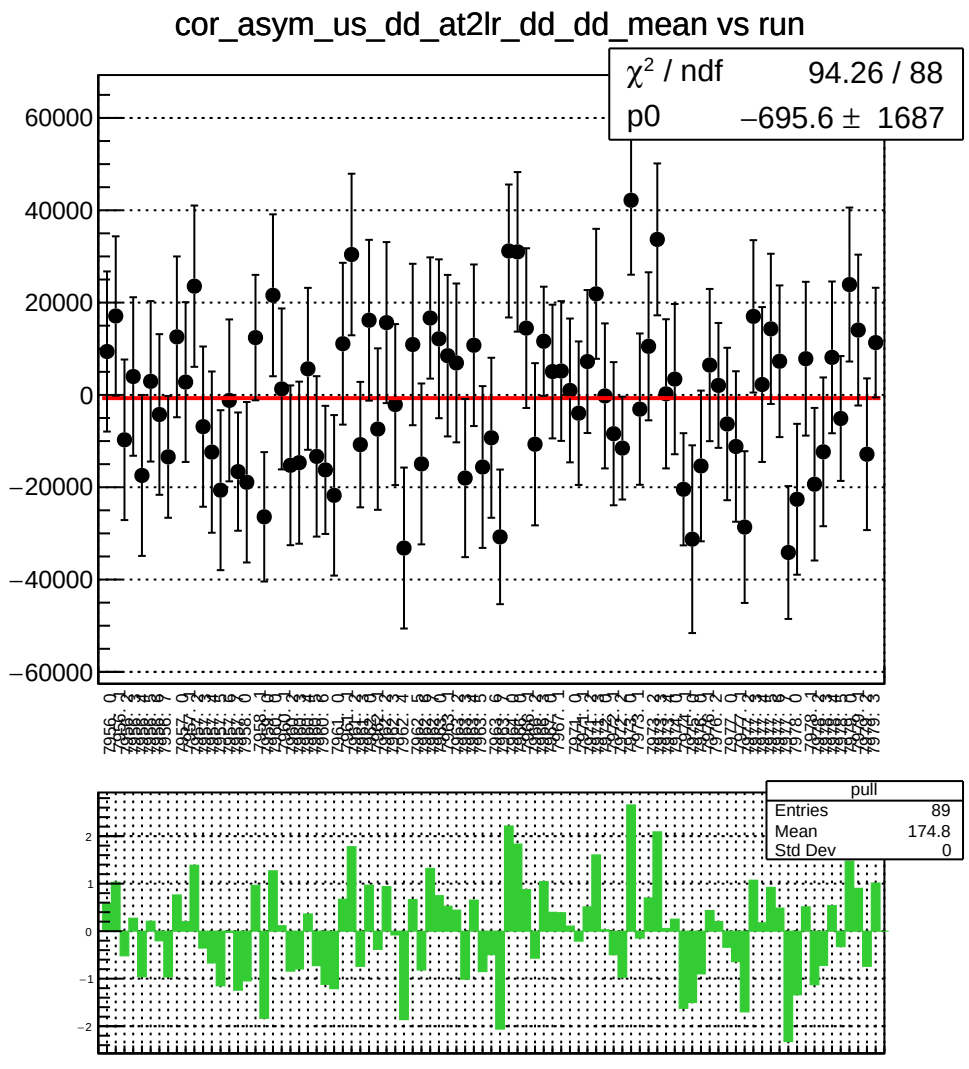

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.26 / 88
p0 −695.6 ± 1687
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 174.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.008032
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

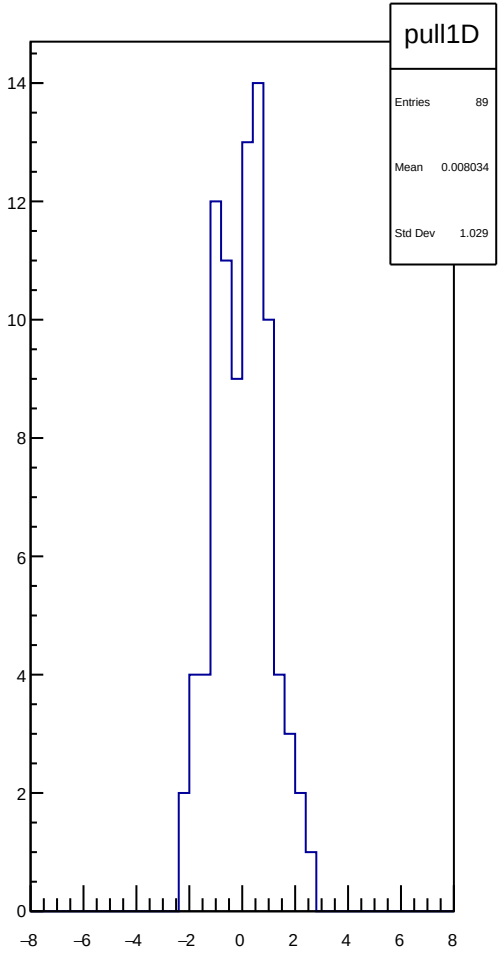

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3273 / 88
p0 1595 ± 1.193
1700
1650
1600
1550
1500
1450
1400
1350

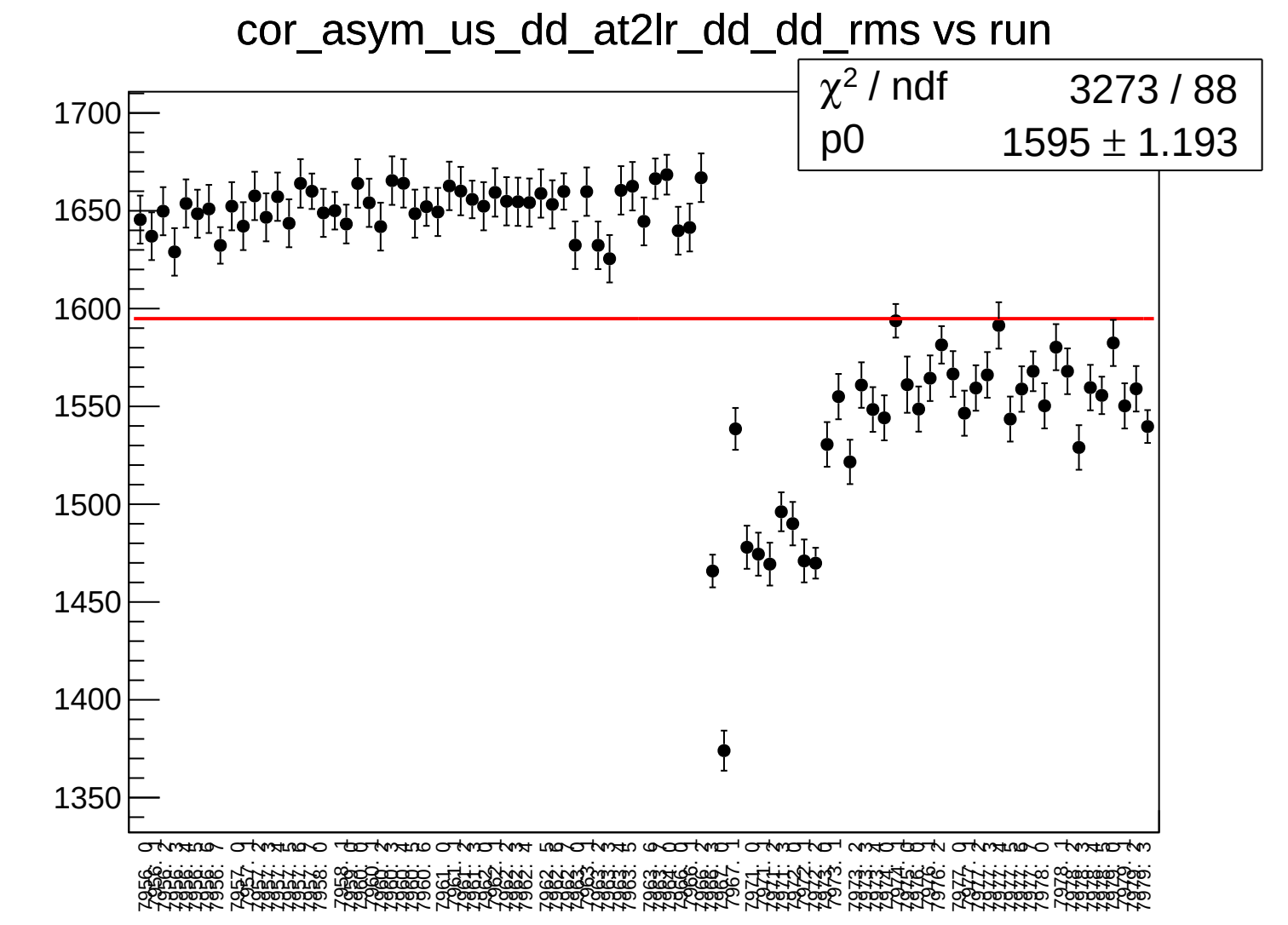

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 95.94 / 88
p0 180 ± 1486
pull
Entries 89
Mean −257.4
Std Dev 0

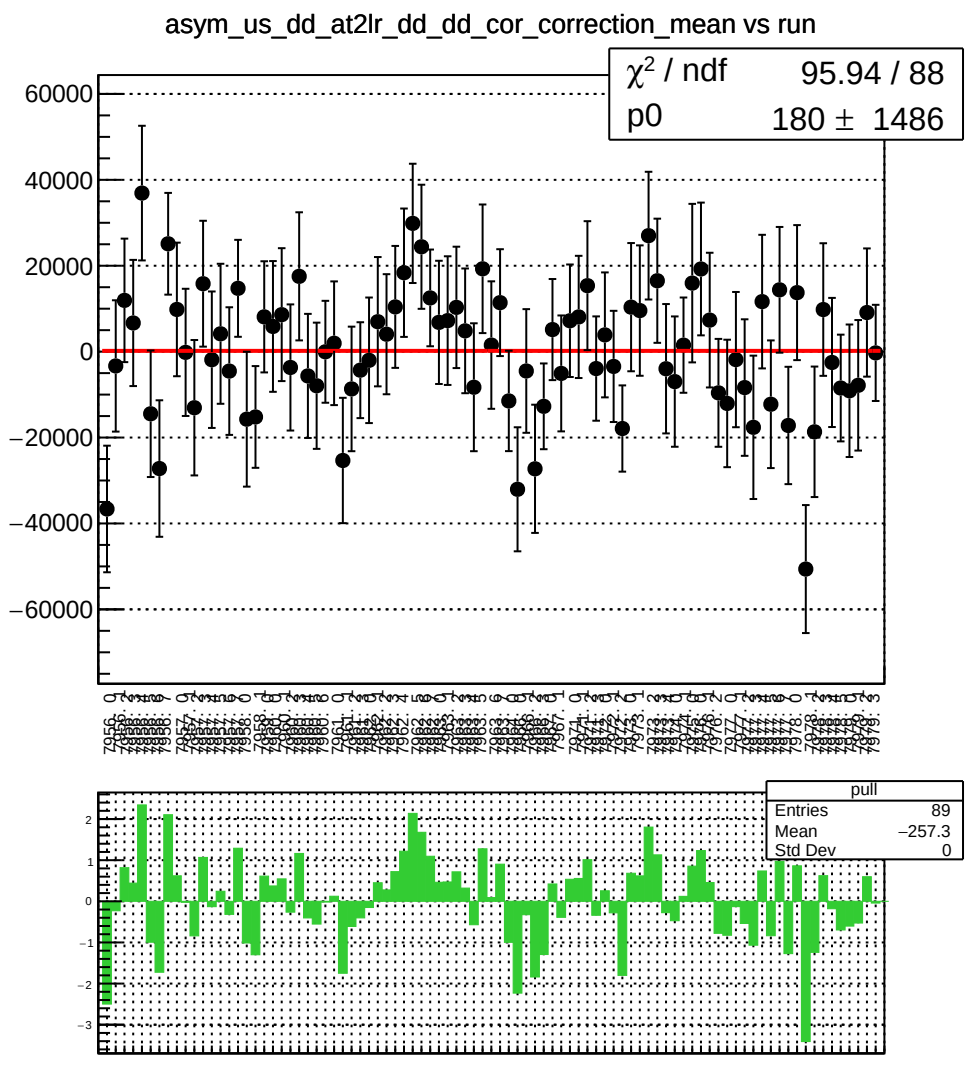

pull1D
Entries 89
Mean 0.009745
Std Dev 1.038

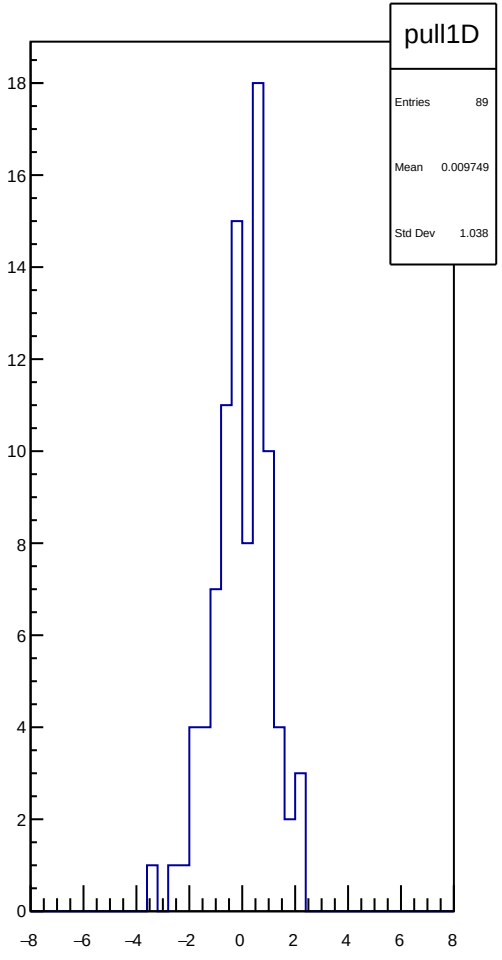

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5011 / 88
p0 1404 ± 1.051
1600
1500
1400
1300
1200
1100

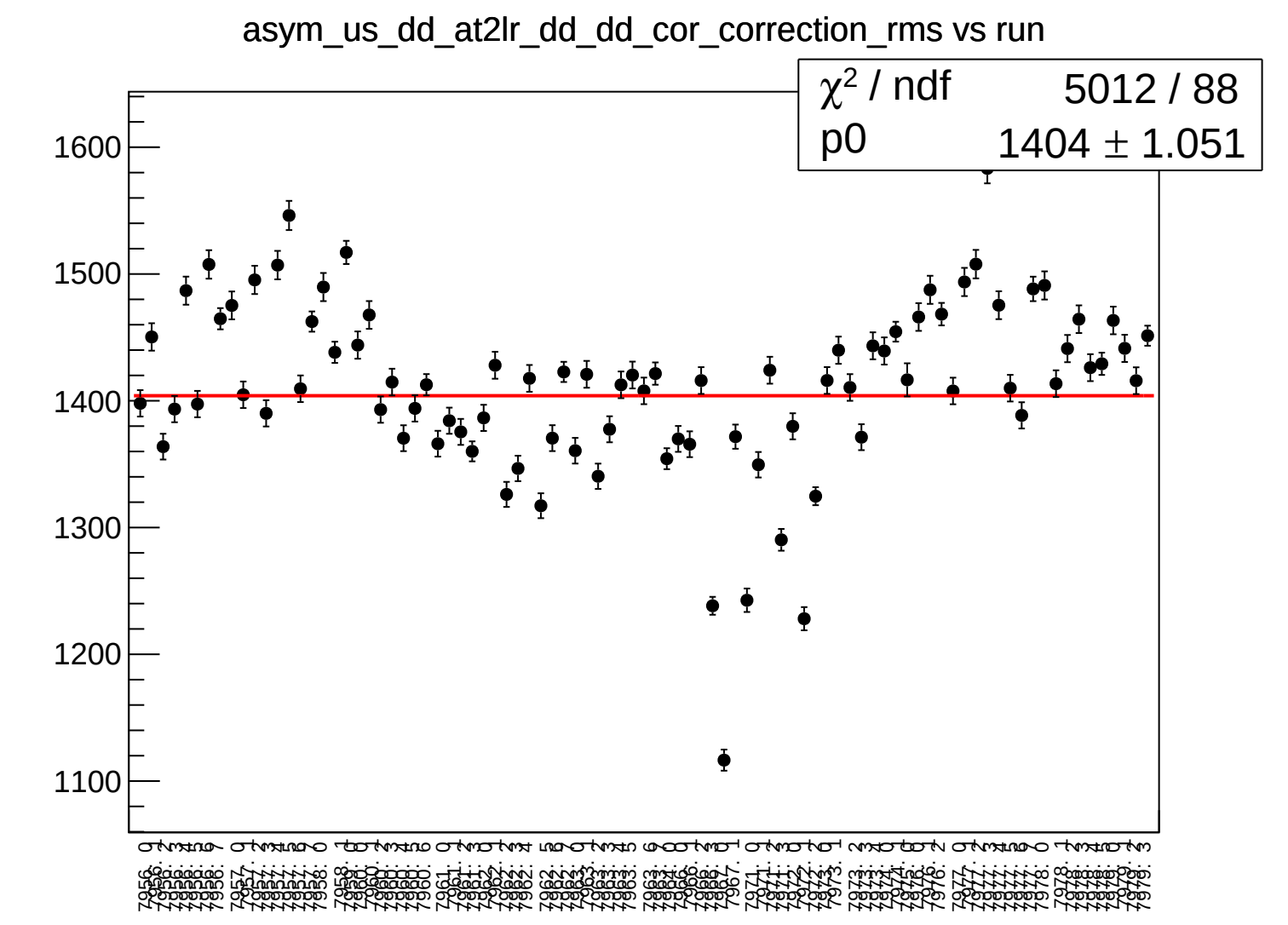

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.26 / 88
p0 −695.6 ± 1687
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 174.8
Std Dev 0
2
1
0
−1
−2

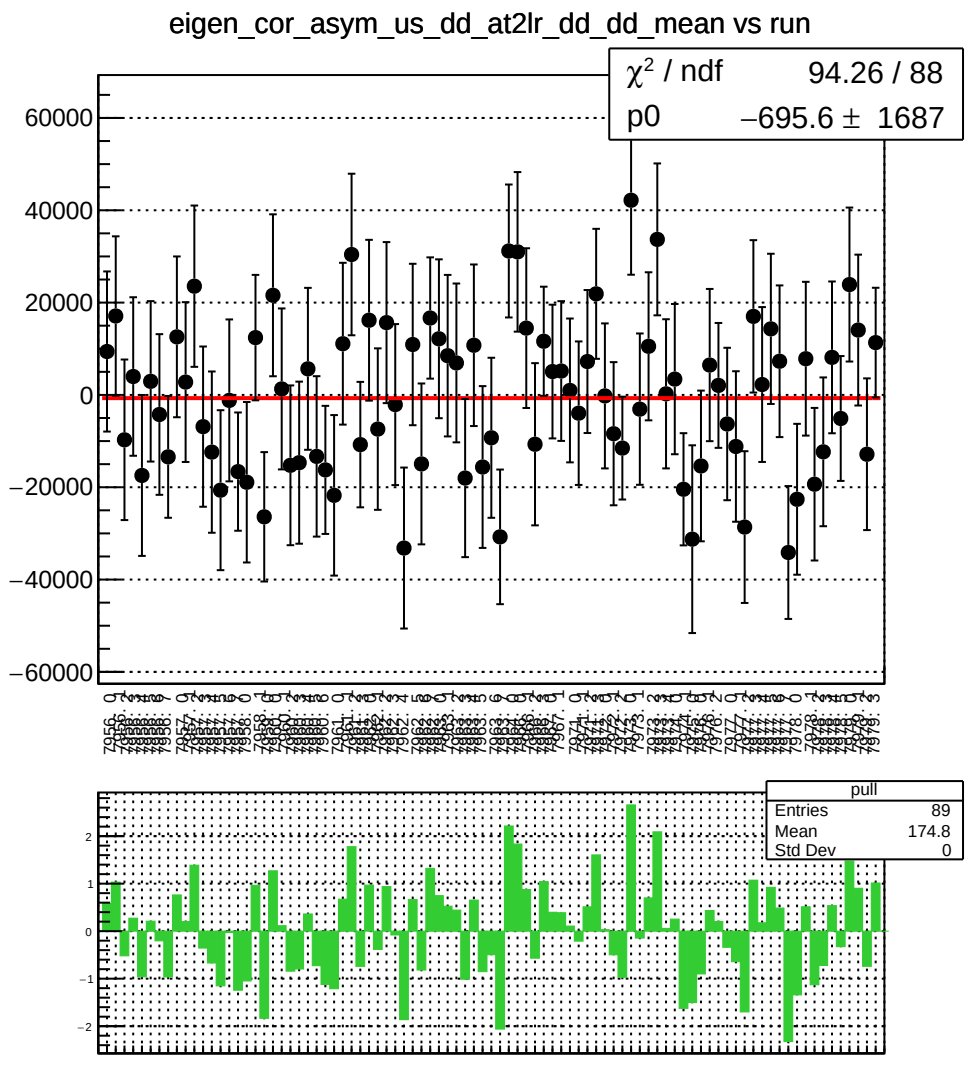

pull1D
Entries 89
Mean 0.008034
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

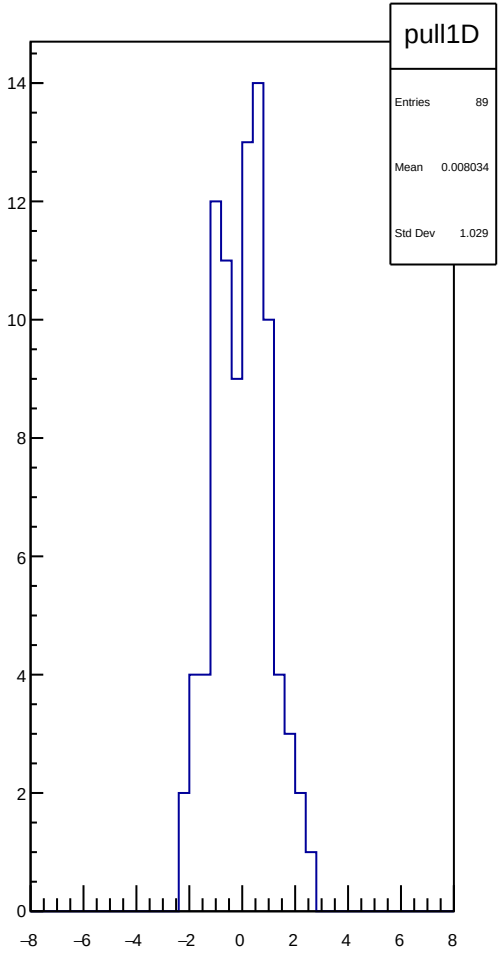

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3273 / 88
p0 1595 ± 1.193
1700
1650
1600
1550
1500
1450
1400
1350

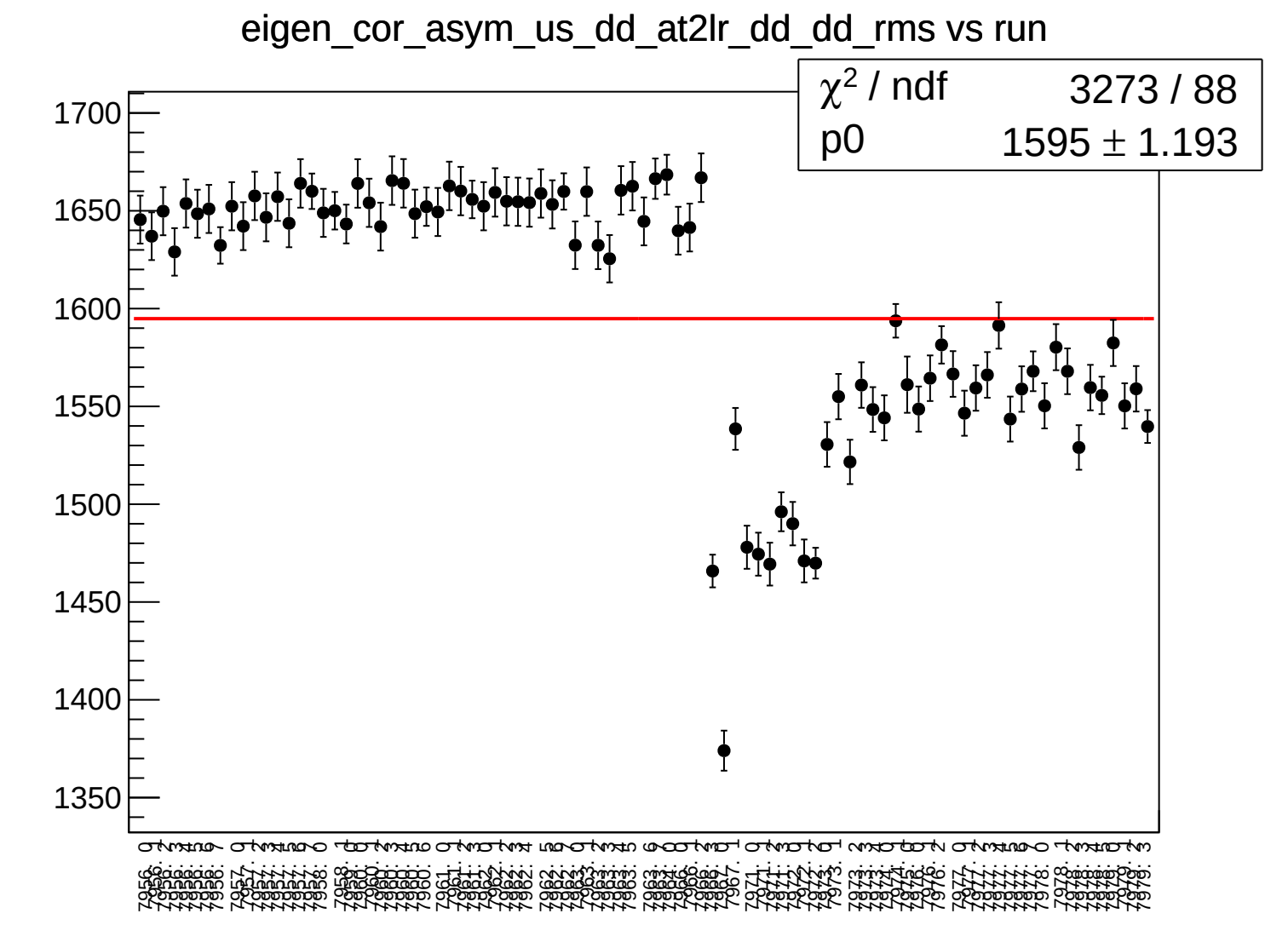

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 95.94 / 88
p0 180 ± 1486
pull
Entries 89
Mean −257.3
Std Dev 0

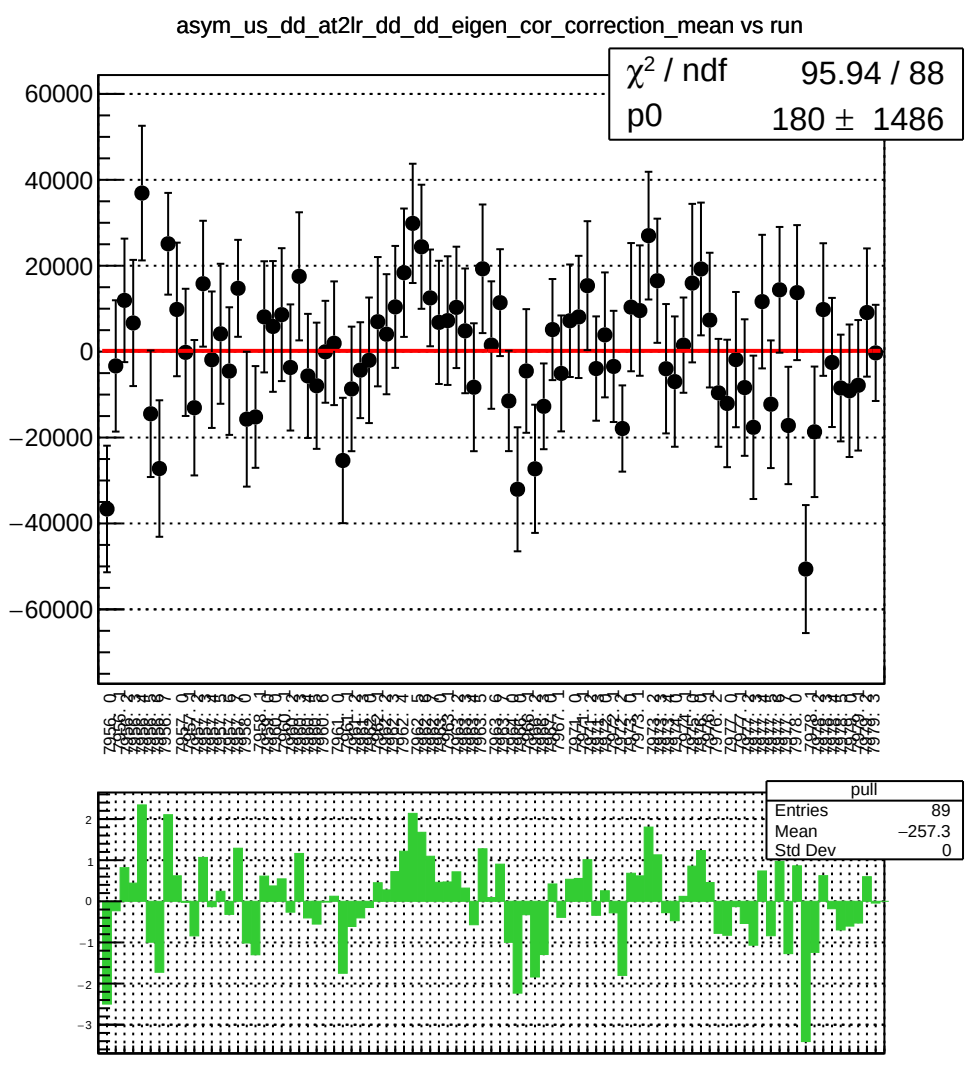

pull1D
Entries 89
Mean 0.009749
Std Dev 1.038

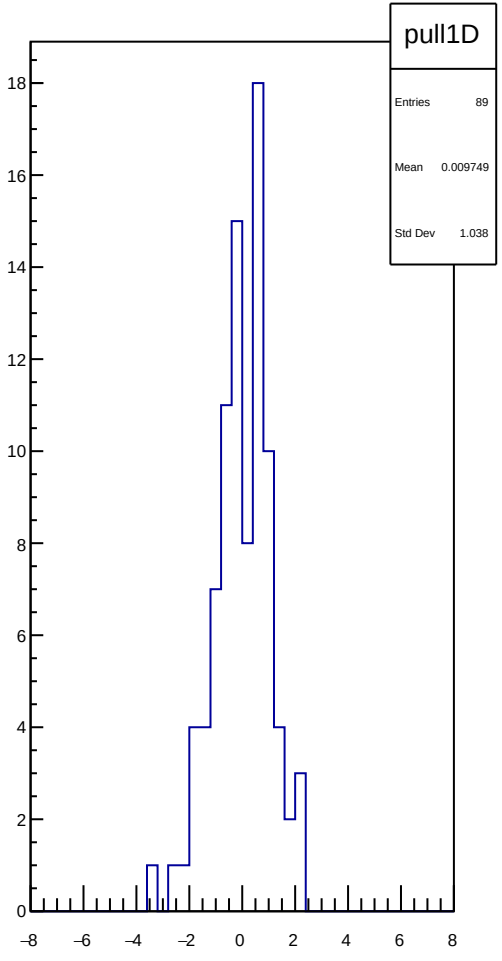

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5012 / 88
p0 1404 ± 1.051
1600
1500
1400
1300
1200
1100

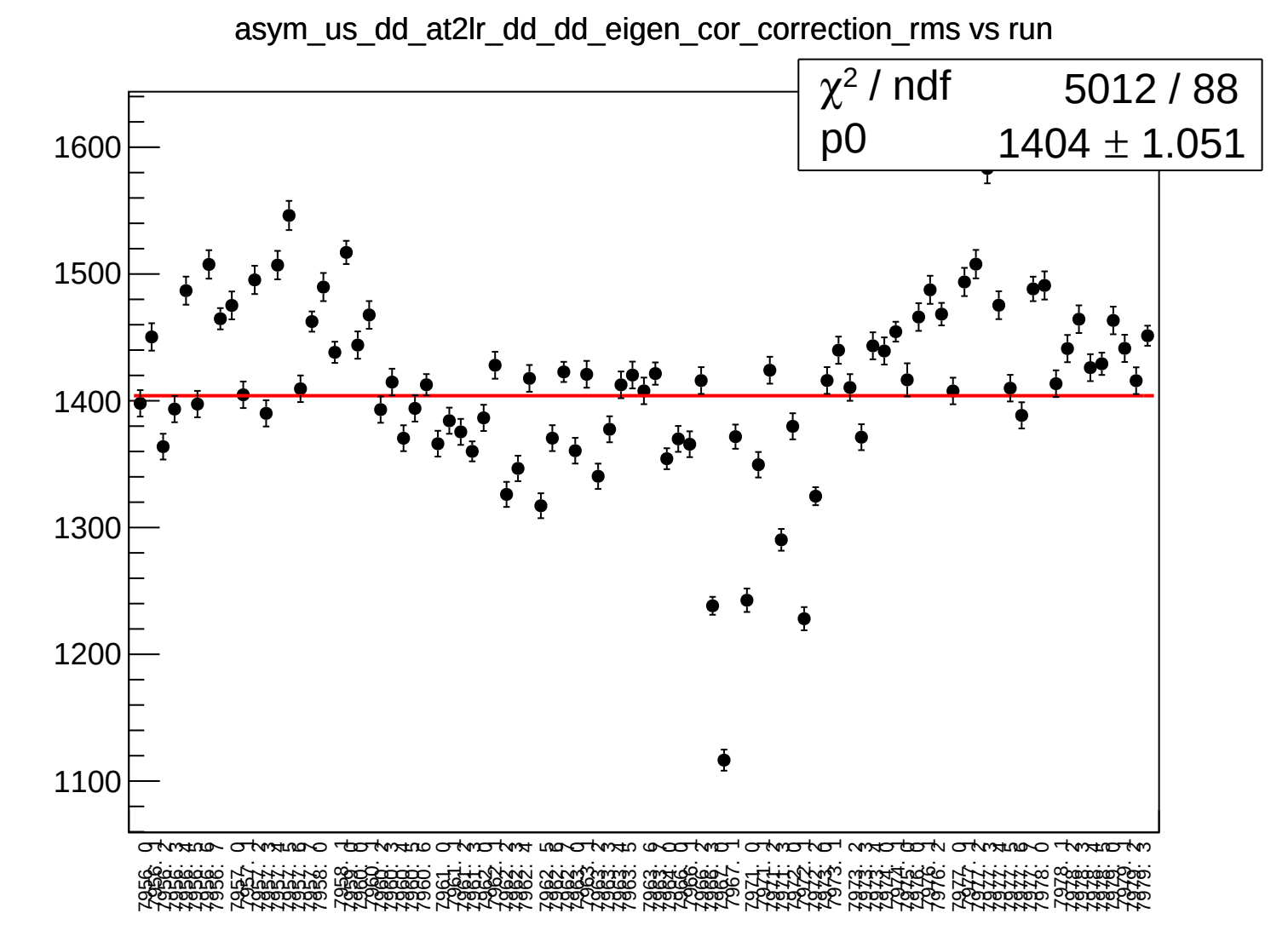

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.26 / 88
p0 −695.6 ± 1687
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 174.8
Std Dev 0
2
1
0
−1
−2

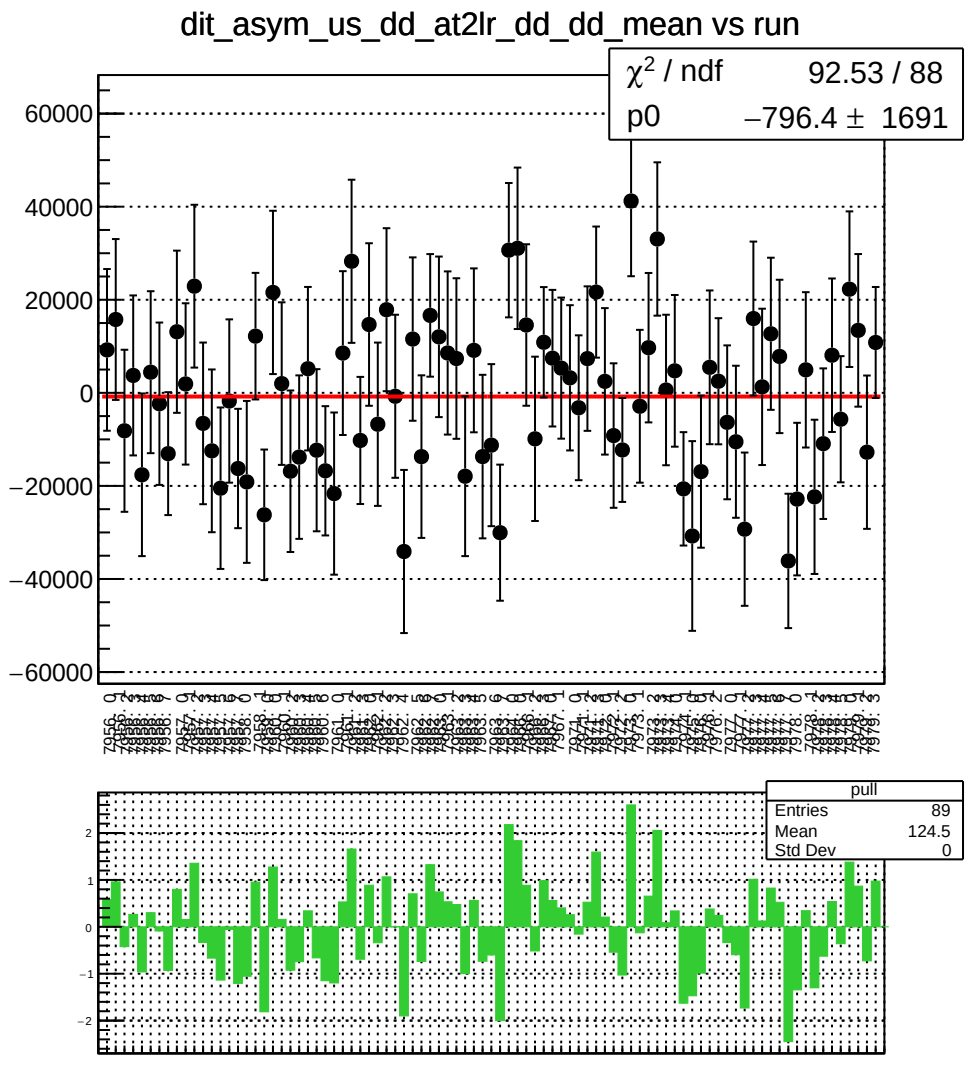

pull1D
Entries 89
Mean 0.008034
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

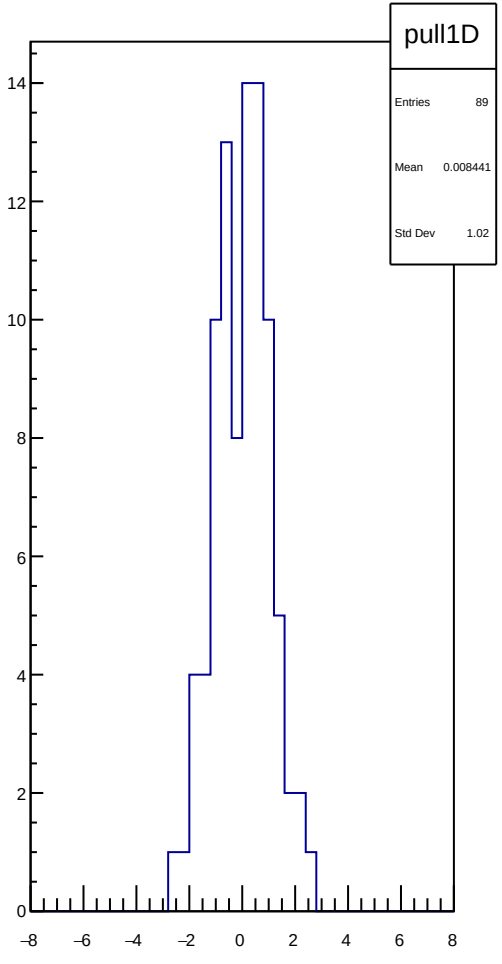

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
$\chi^2$ / ndf 3273 / 88
p0 1595 ± 1.193
1700
1650
1600
1550
1500
1450
1400
1350

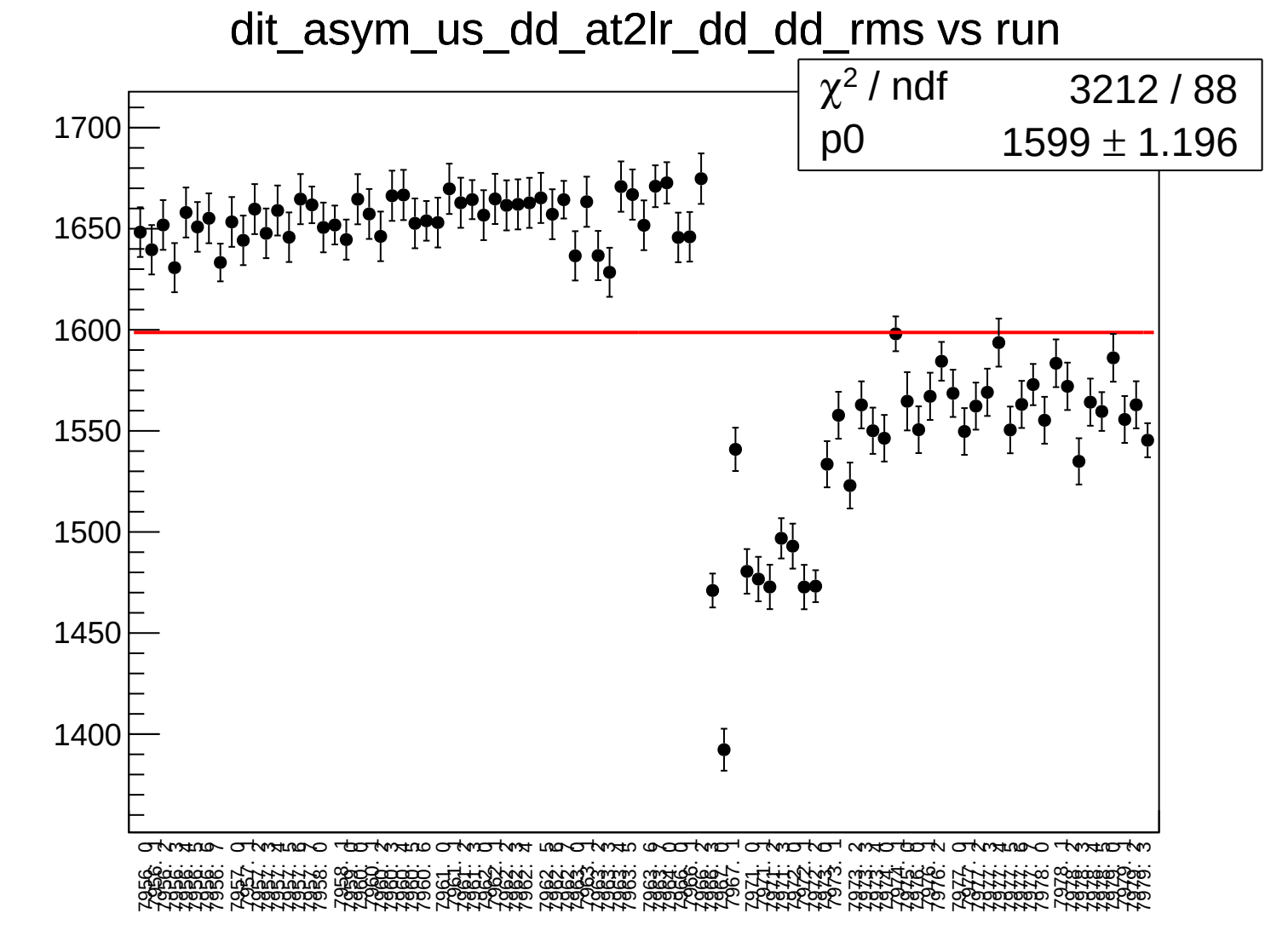

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.94 / 88
p0 180 ± 1486
pull
Entries 89
Mean −257.3
Std Dev 0

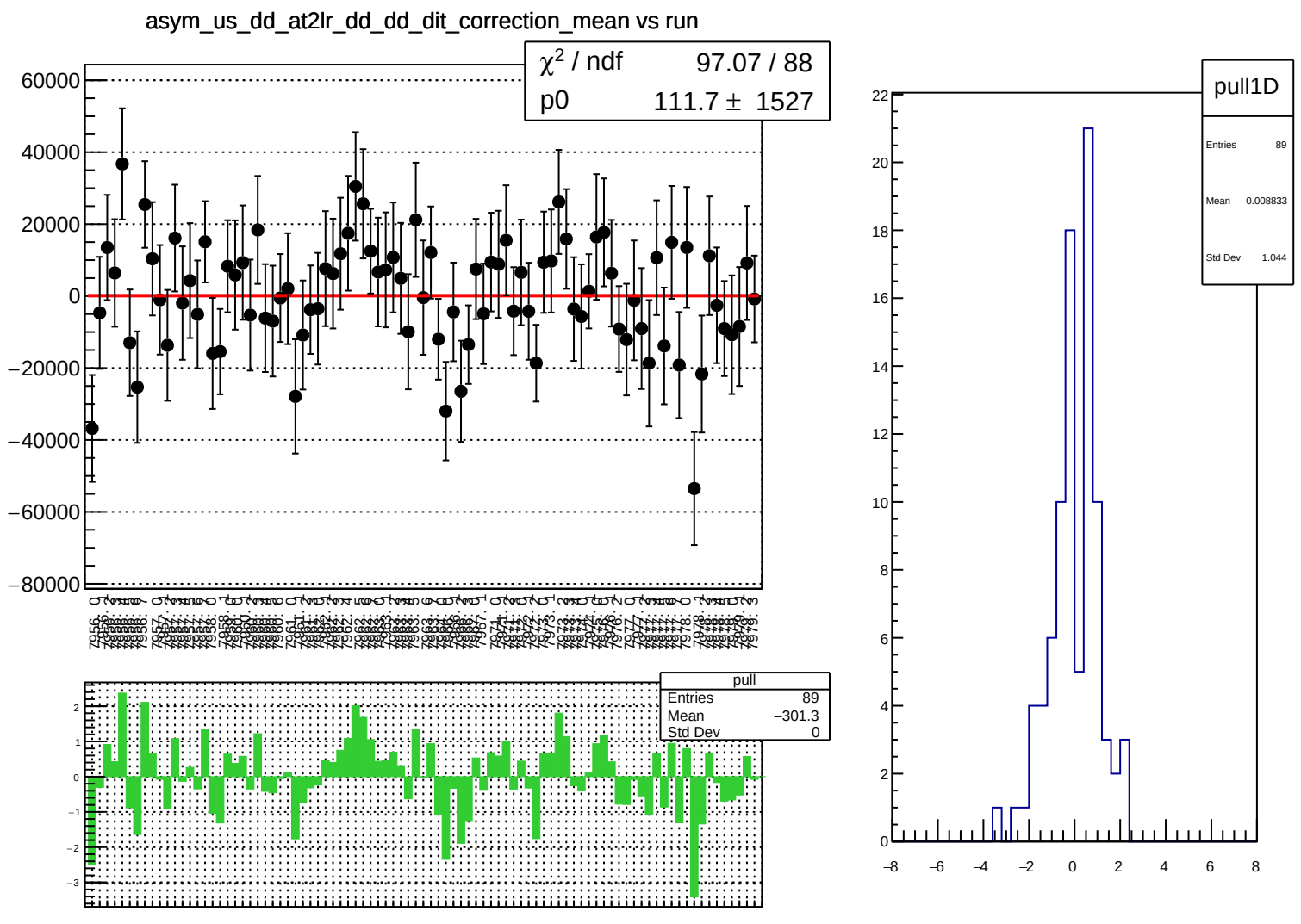

pull1D
Entries 89
Mean 0.009749
Std Dev 1.038

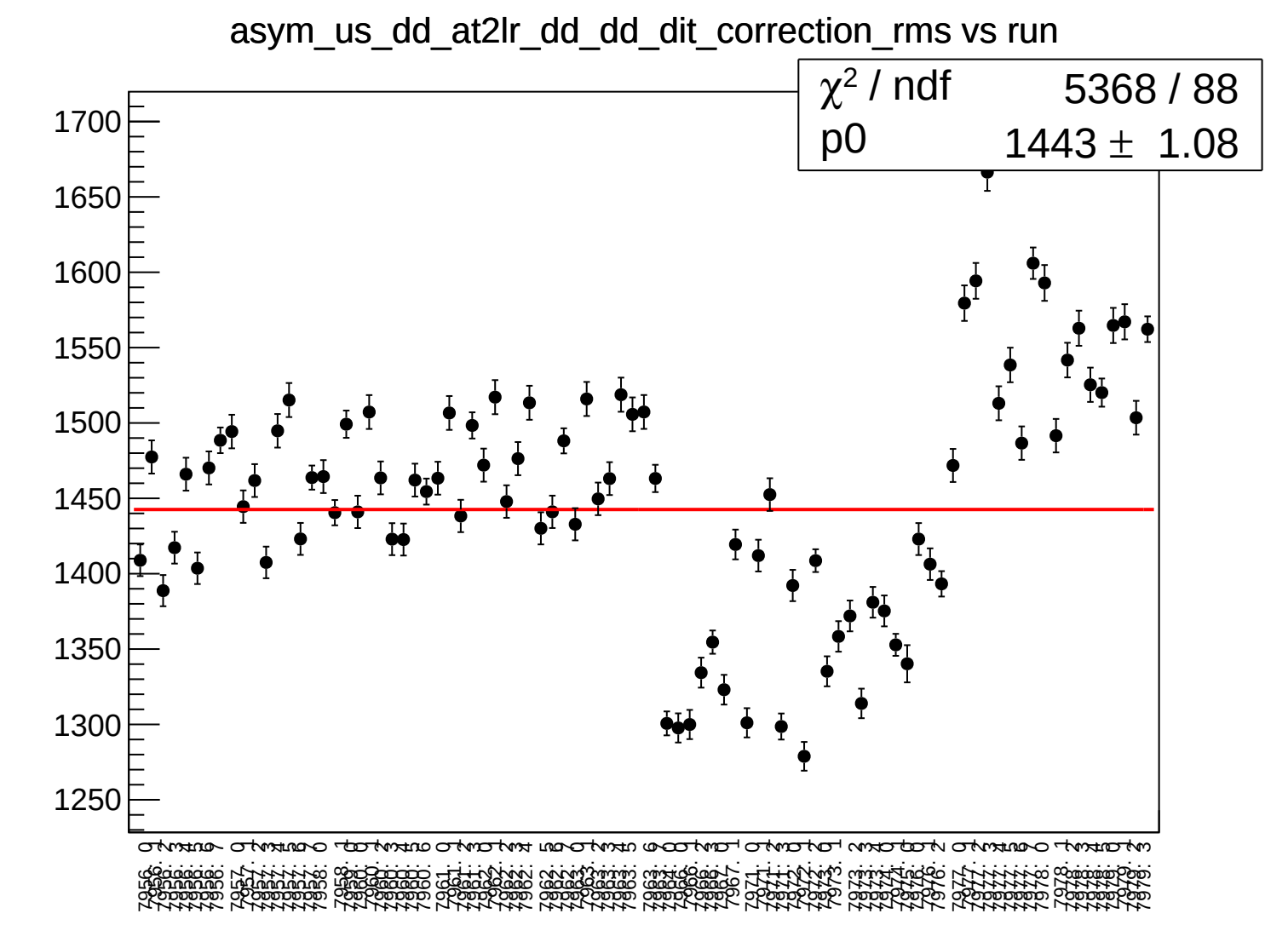

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5012 / 88
p0 1404 ± 1.051
1600
1500
1400
1300
1200
1100

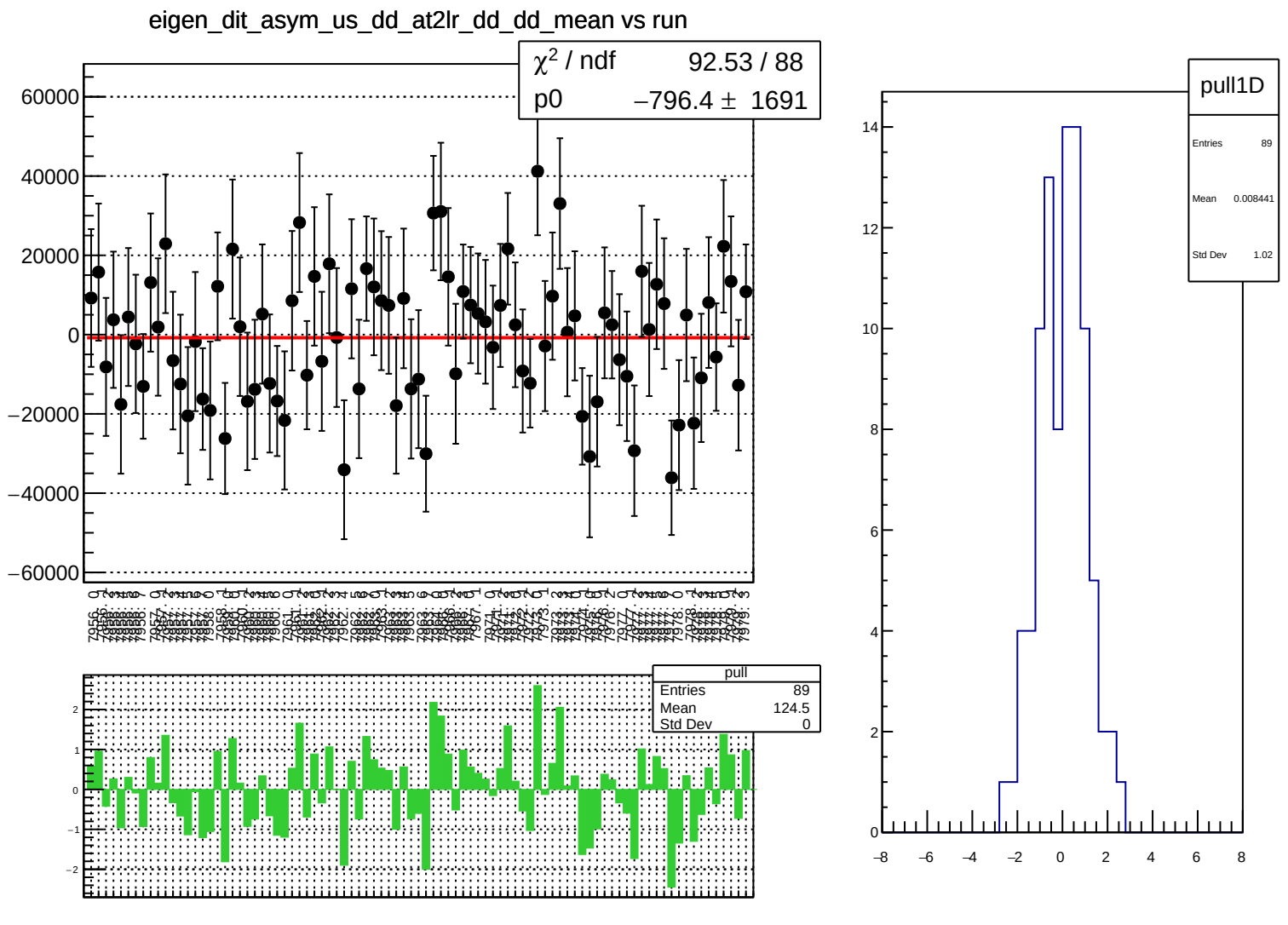

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 92.53 / 88
p0 −796.4 ± 1691
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 124.5
Std Dev 0
2
1
0
−1
−2

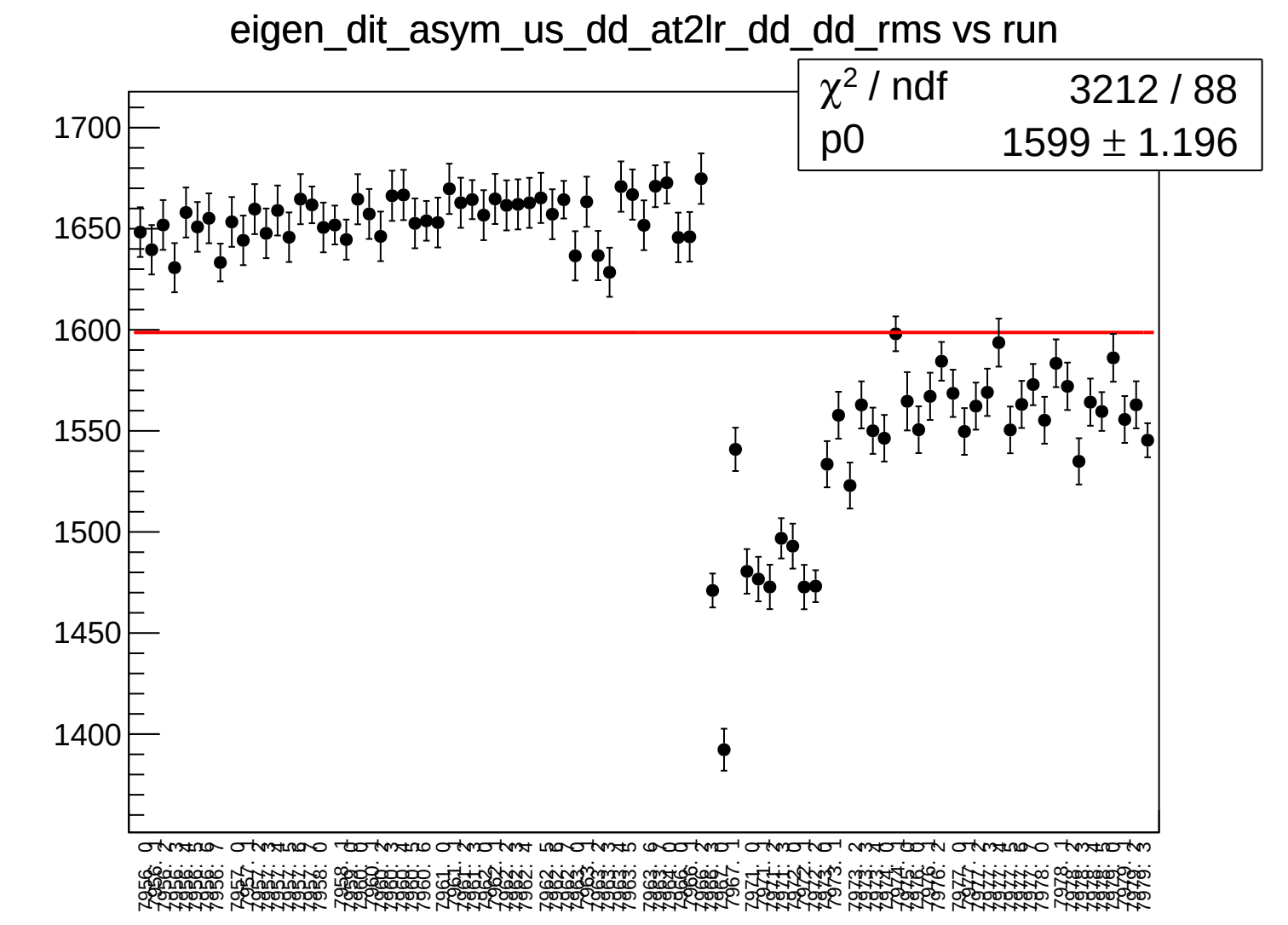

pull1D
Entries 89
Mean 0.008441
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

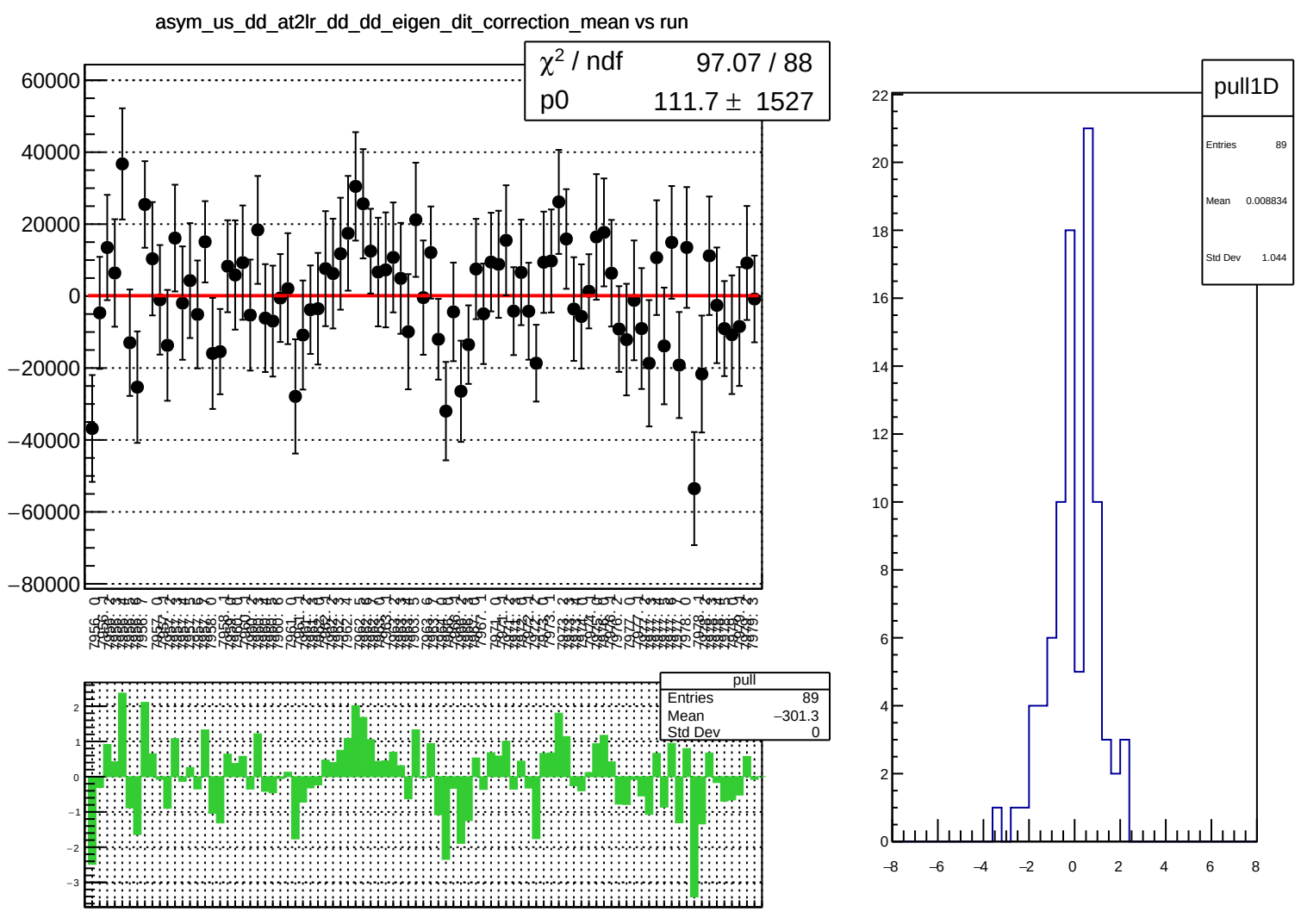

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3212 / 88
p0 1599 ± 1.196
1700
1650
1600
1550
1500
1450
1400

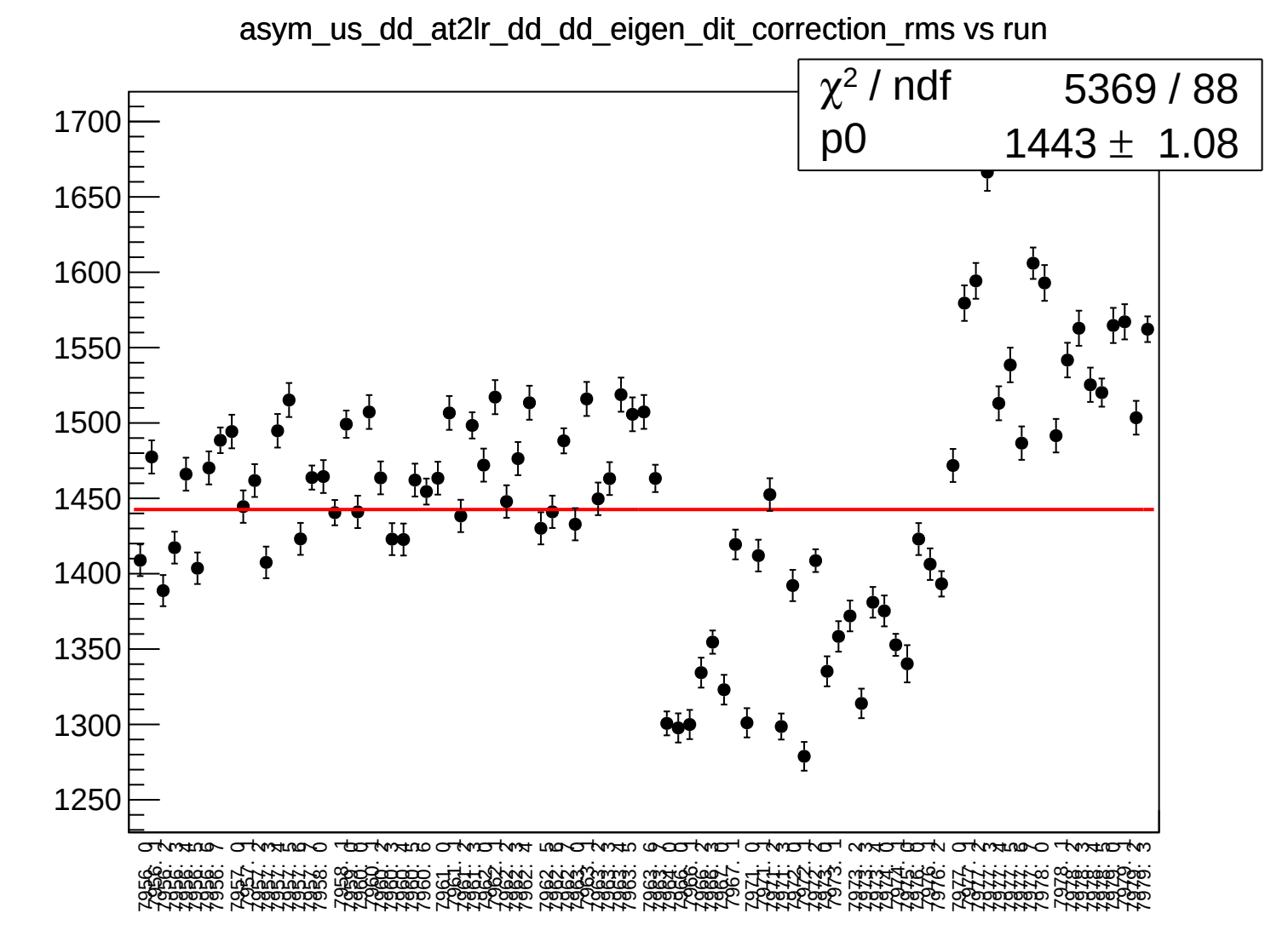

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 97.07 / 88
p0 111.7 ± 1527
pull
Entries 89
Mean −301.3
Std Dev 0
pull1D
Entries 89
Mean 0.008833
Std Dev 1.044

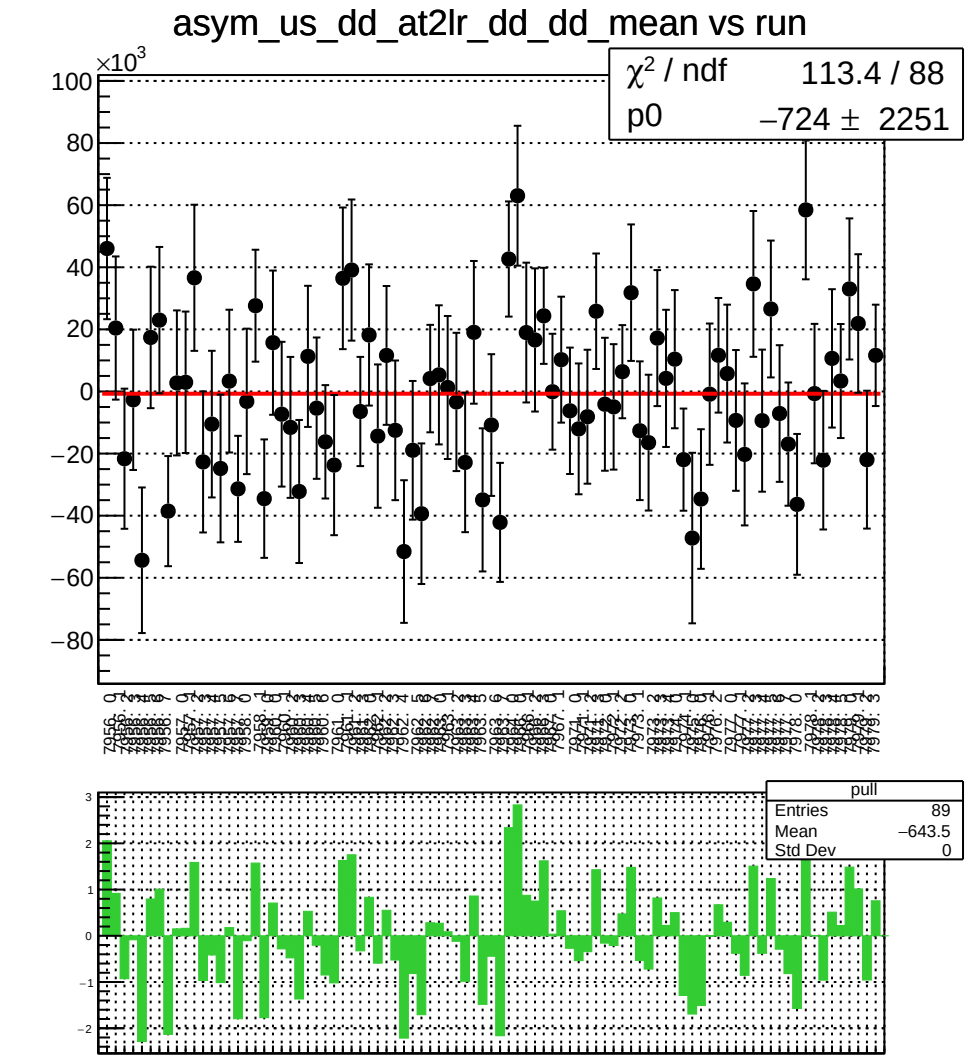

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 5368 / 88
p0 1443 ± 1.08
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250

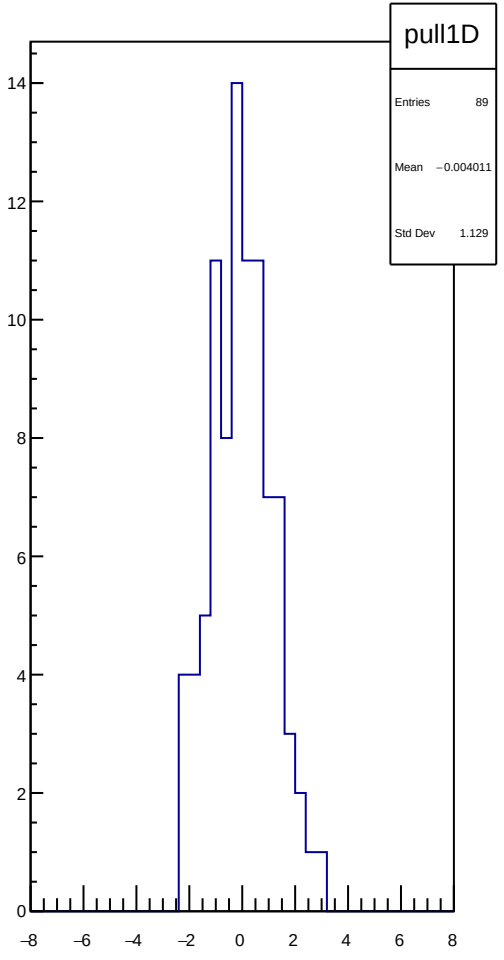

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 92.53 / 88
p0 −796.4 ± 1691
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 124.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.008441
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

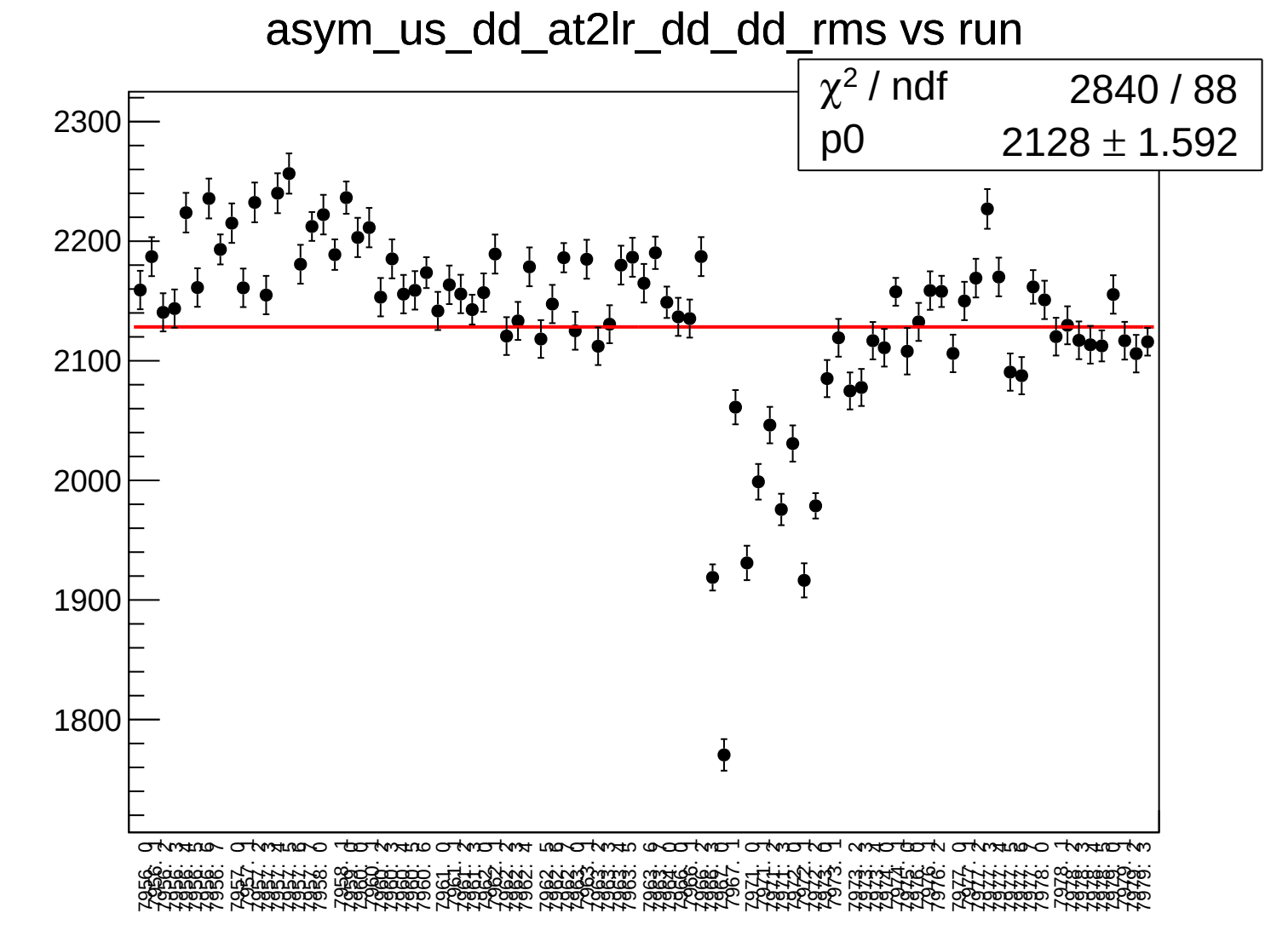

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
$\chi^2$ / ndf 3212 / 88
p0 1599 ± 1.196
1700
1650
1600
1550
1500
1450
1400

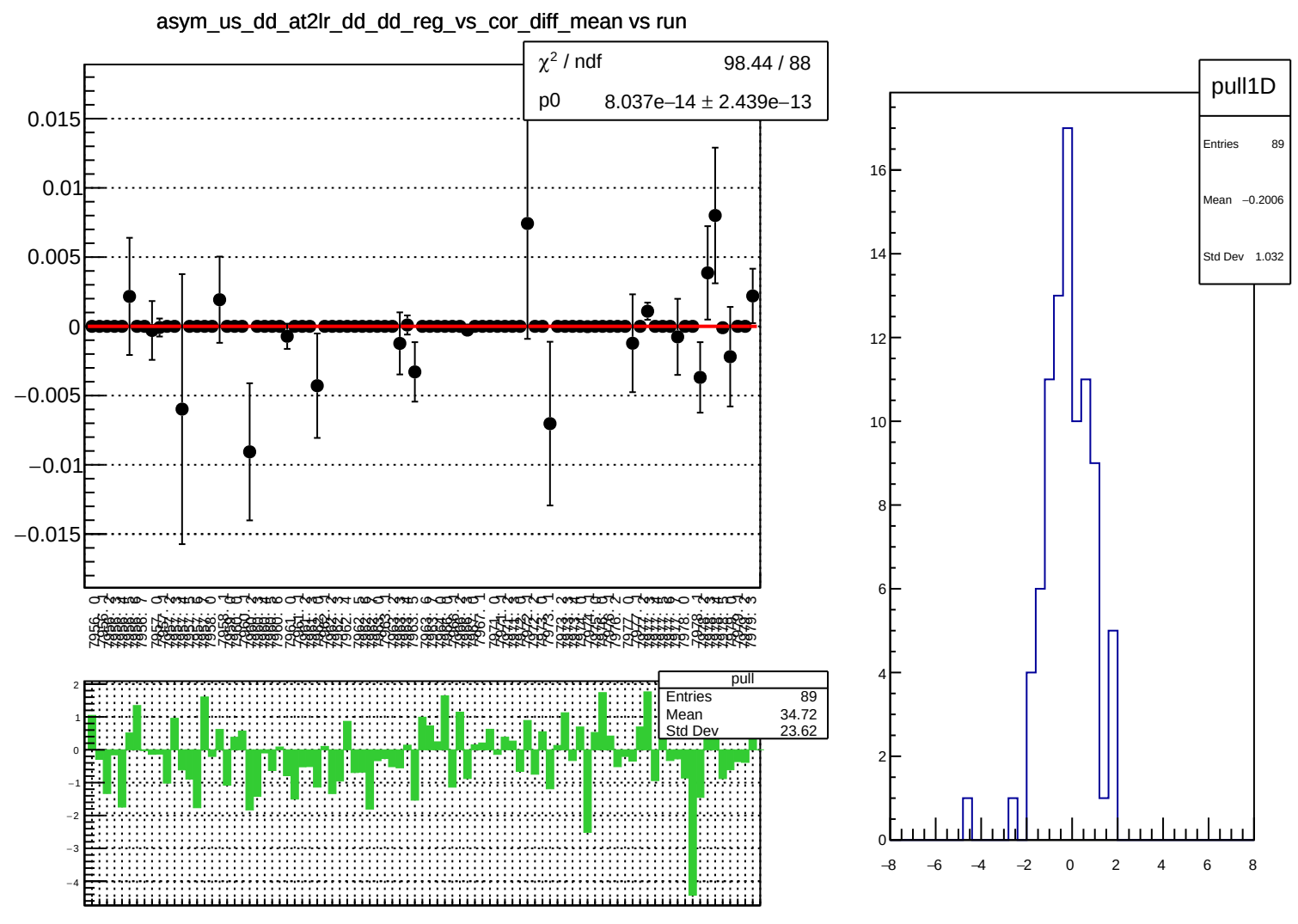

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.07 / 88
p0 111.7 ± 1527
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −301.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.008834
Std Dev 1.044
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

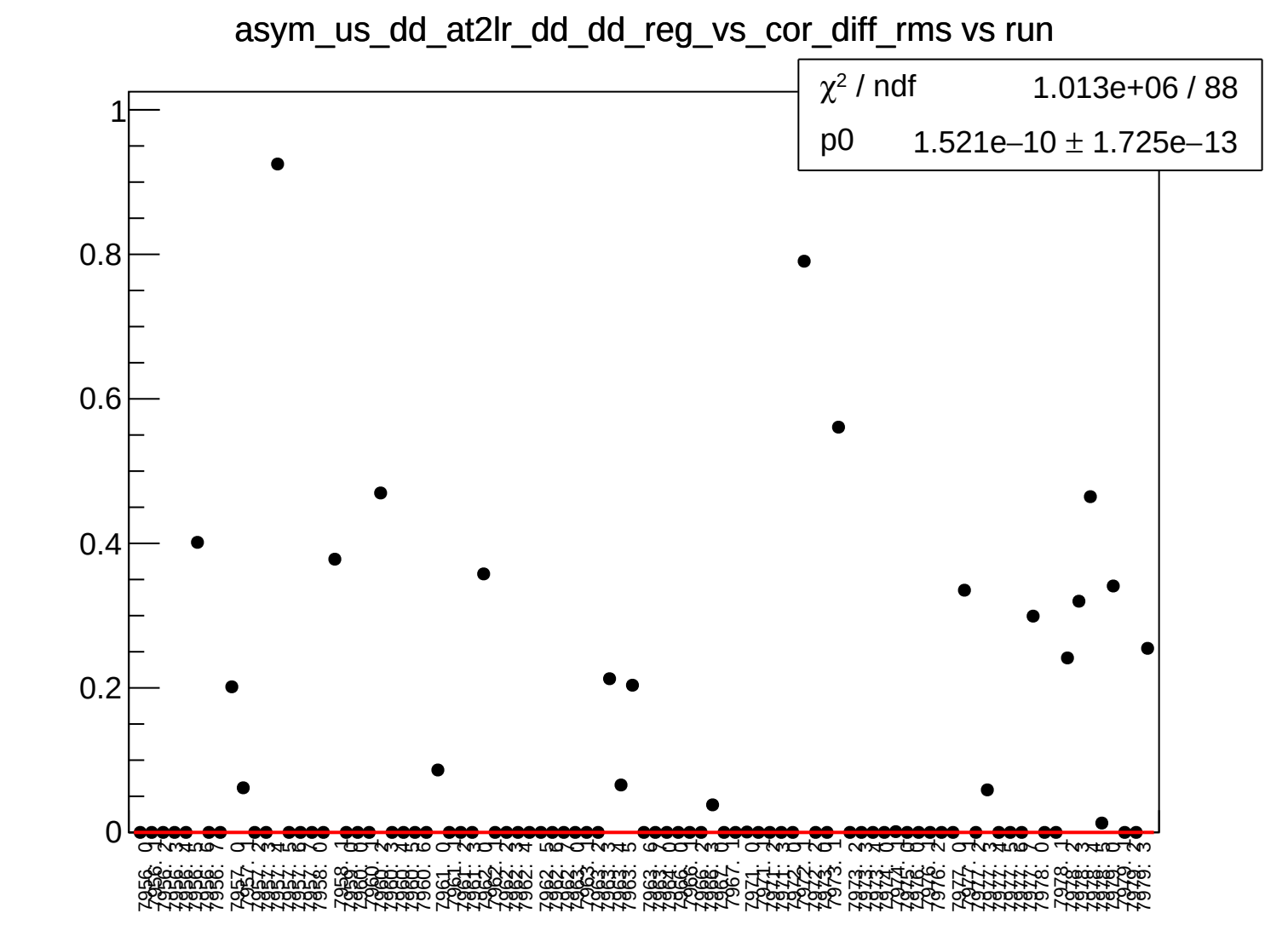

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5369 / 88
p0 1443 ± 1.08
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250

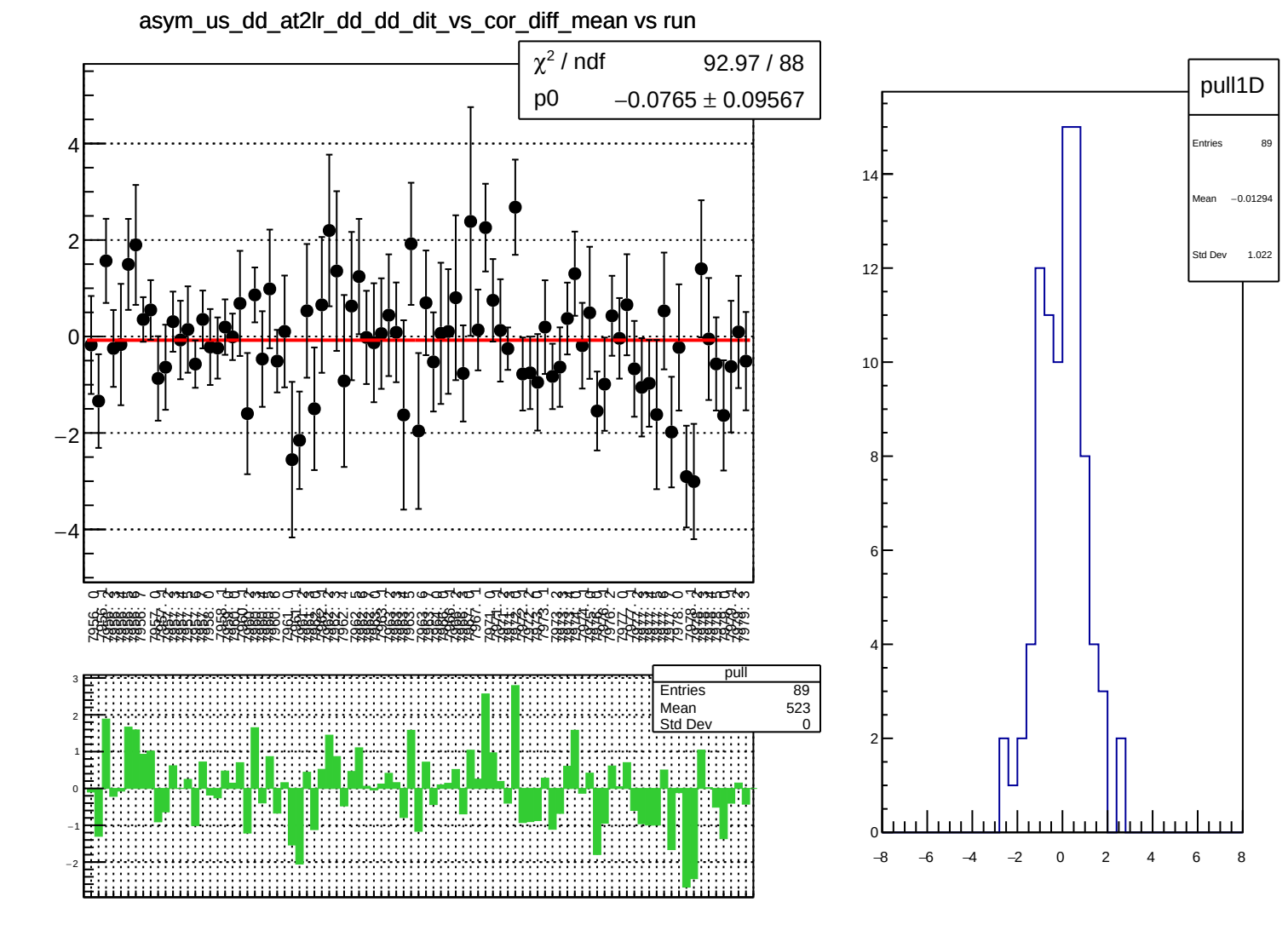

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 113.4 / 88
p0 −724 ± 2251
×10³
pull
Entries 89
Mean −643.5
Std Dev 0

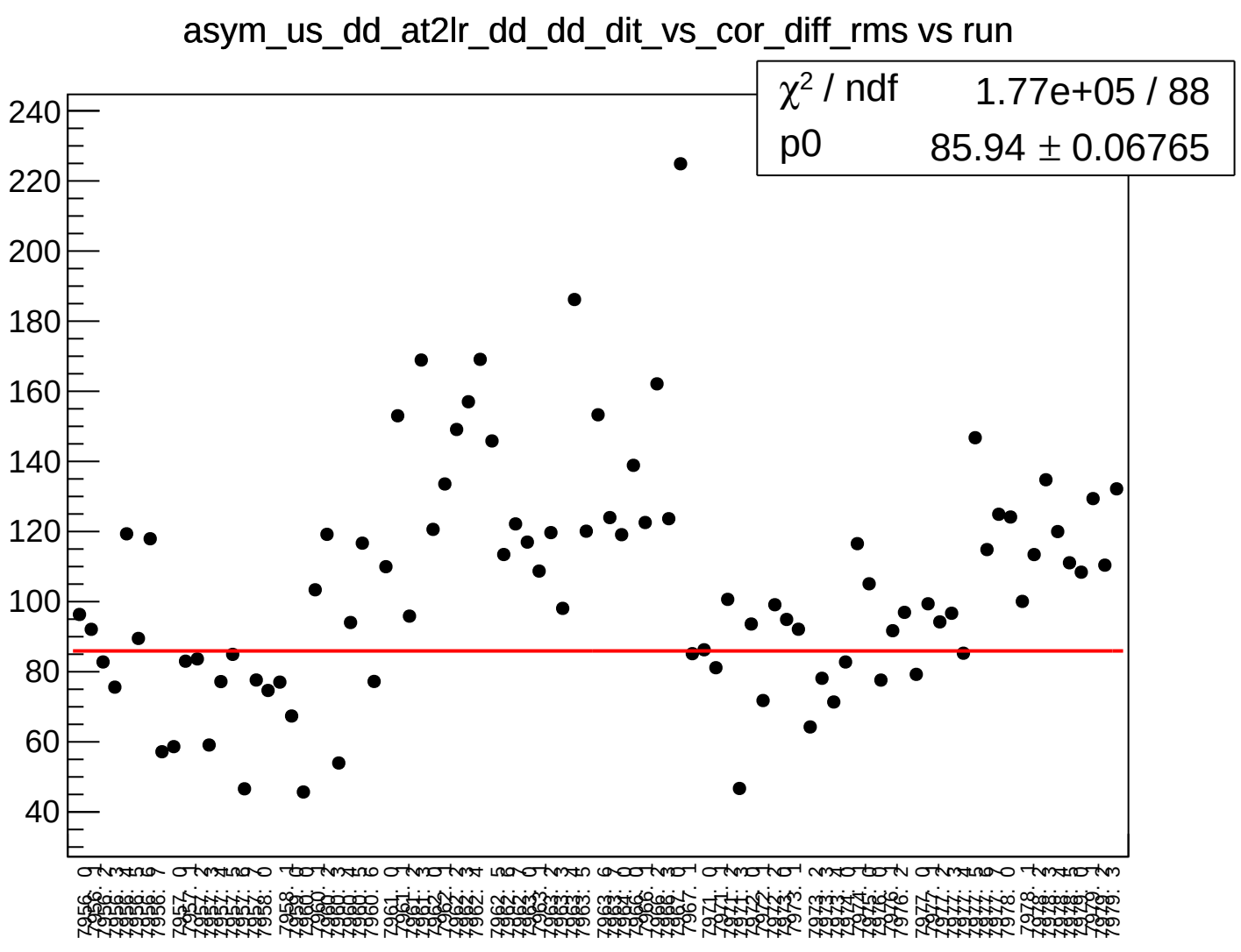

pull1D
Entries 89
Mean −0.004011
Std Dev 1.129

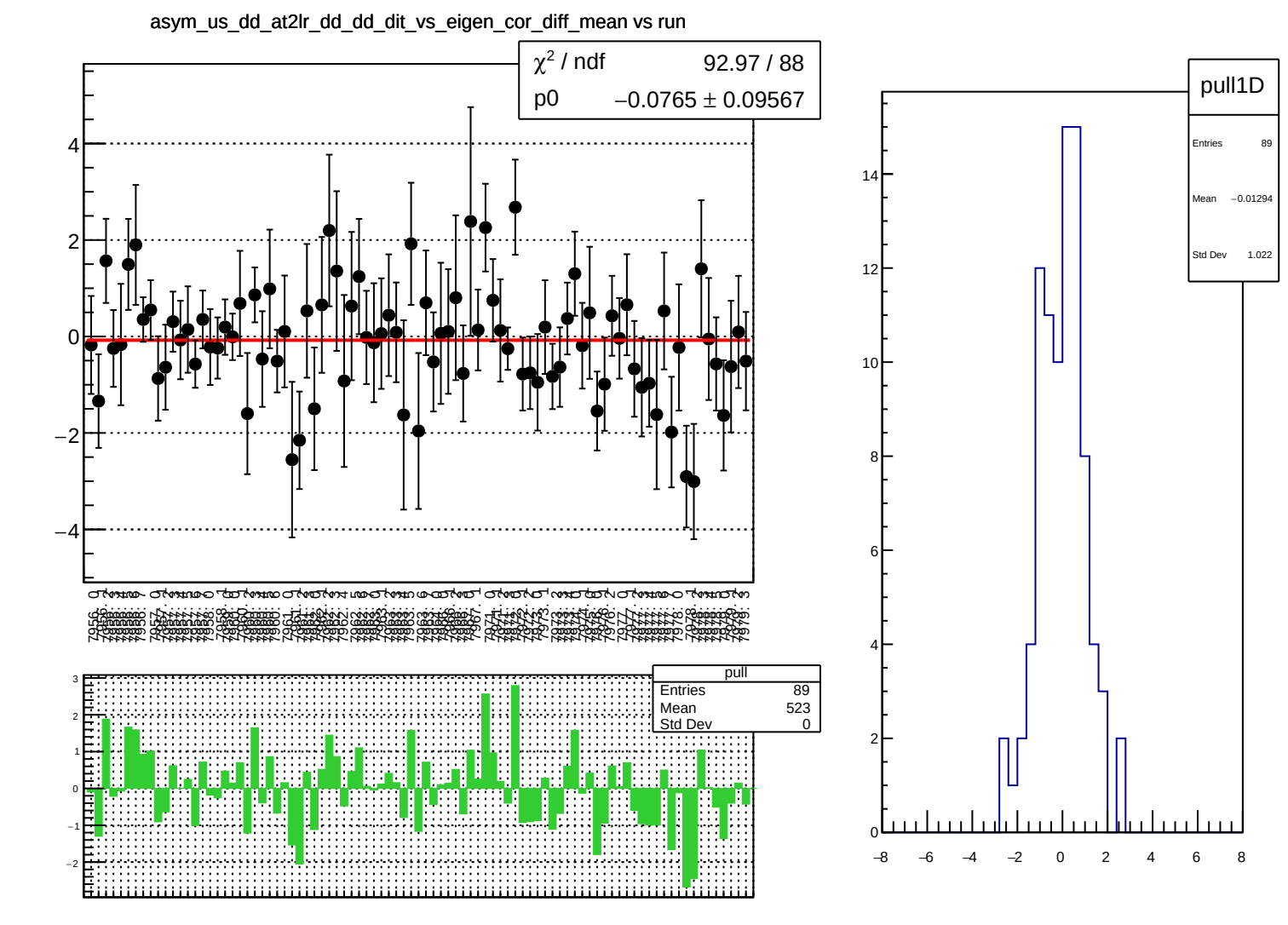

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2840 / 88
p0 2128 ± 1.592
2300
2200
2100
2000
1900
1800

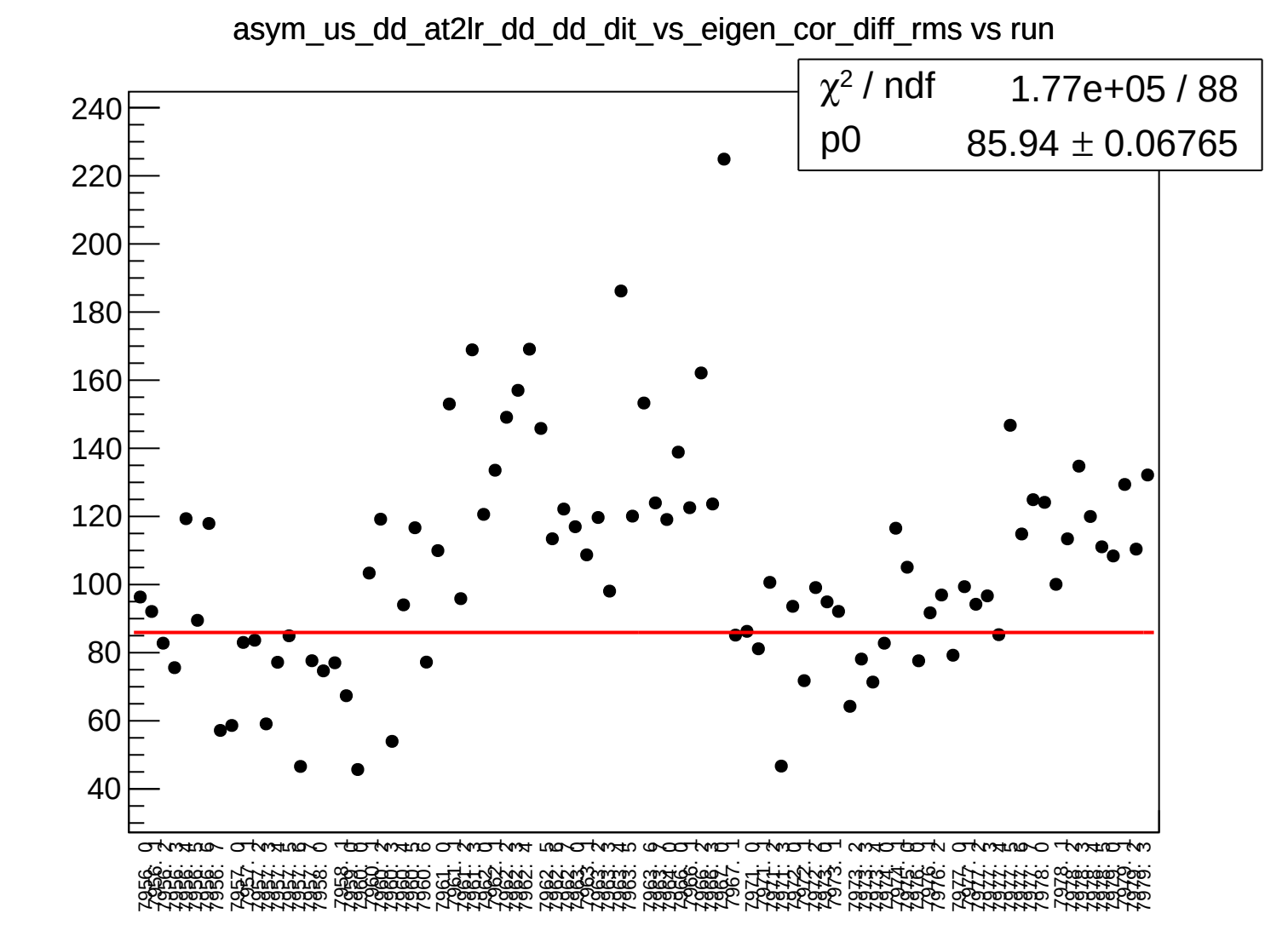

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.44 / 88
p0 8.037e−14 ± 2.439e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 34.72
Std Dev 23.62
pull1D
Entries 89
Mean −0.2006
Std Dev 1.032

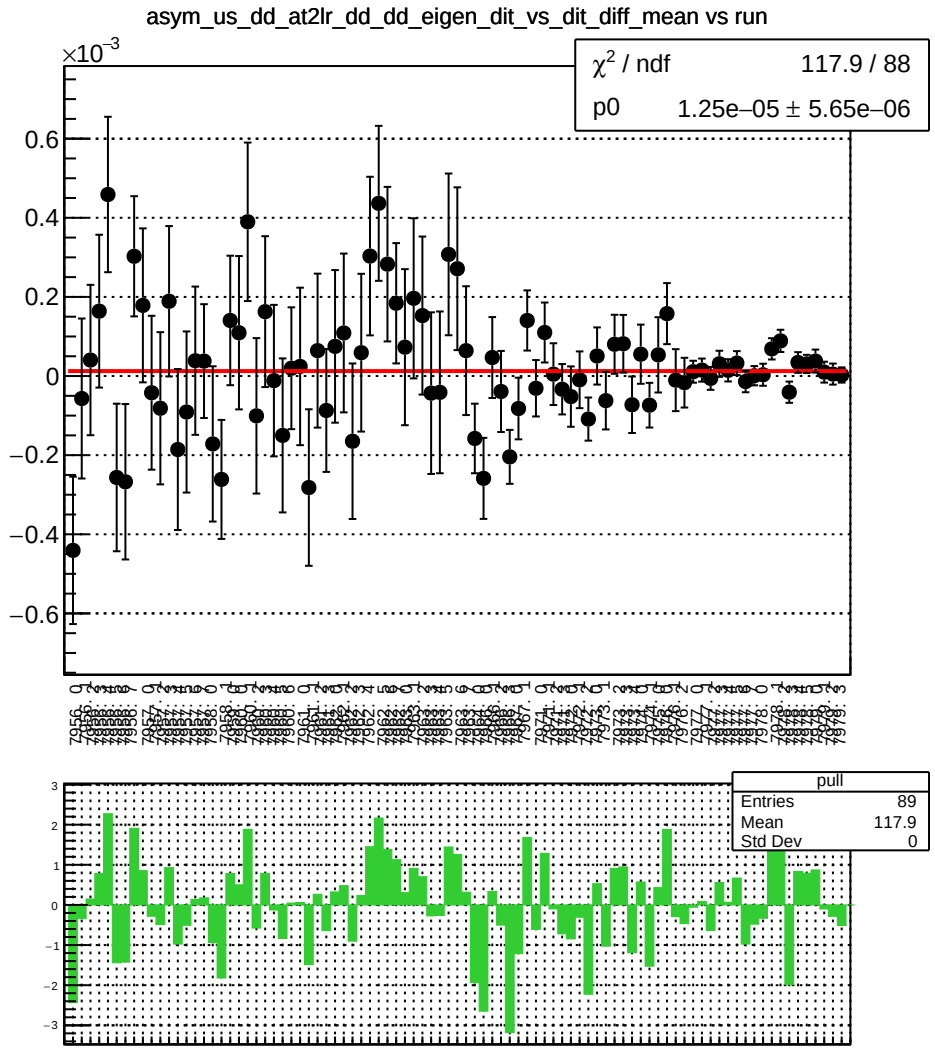

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.013e+06 / 88
p0 1.521e−10 ± 1.725e−13
1
0.8
0.6
0.4
0.2
0

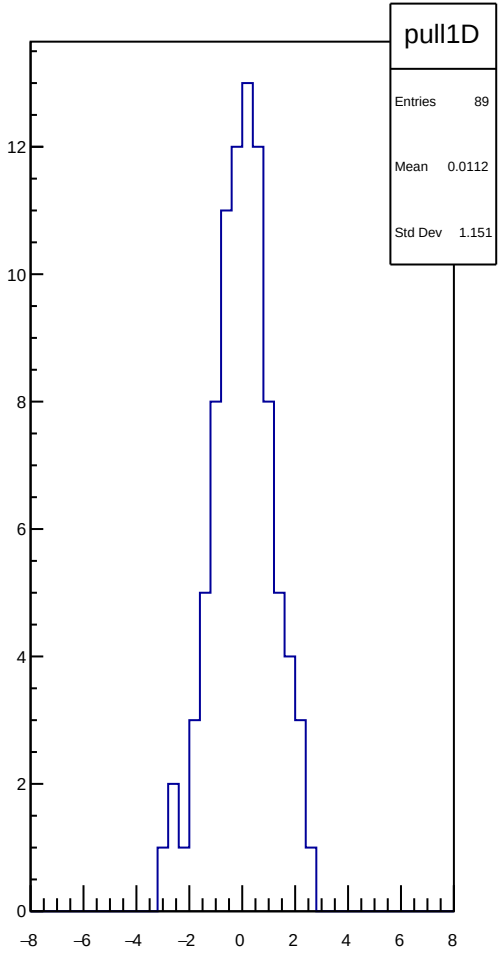

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.97 / 88
p0 −0.0765 ± 0.09567
pull
Entries 89
Mean 523
Std Dev 0
pull1D
Entries 89
Mean −0.01294
Std Dev 1.022

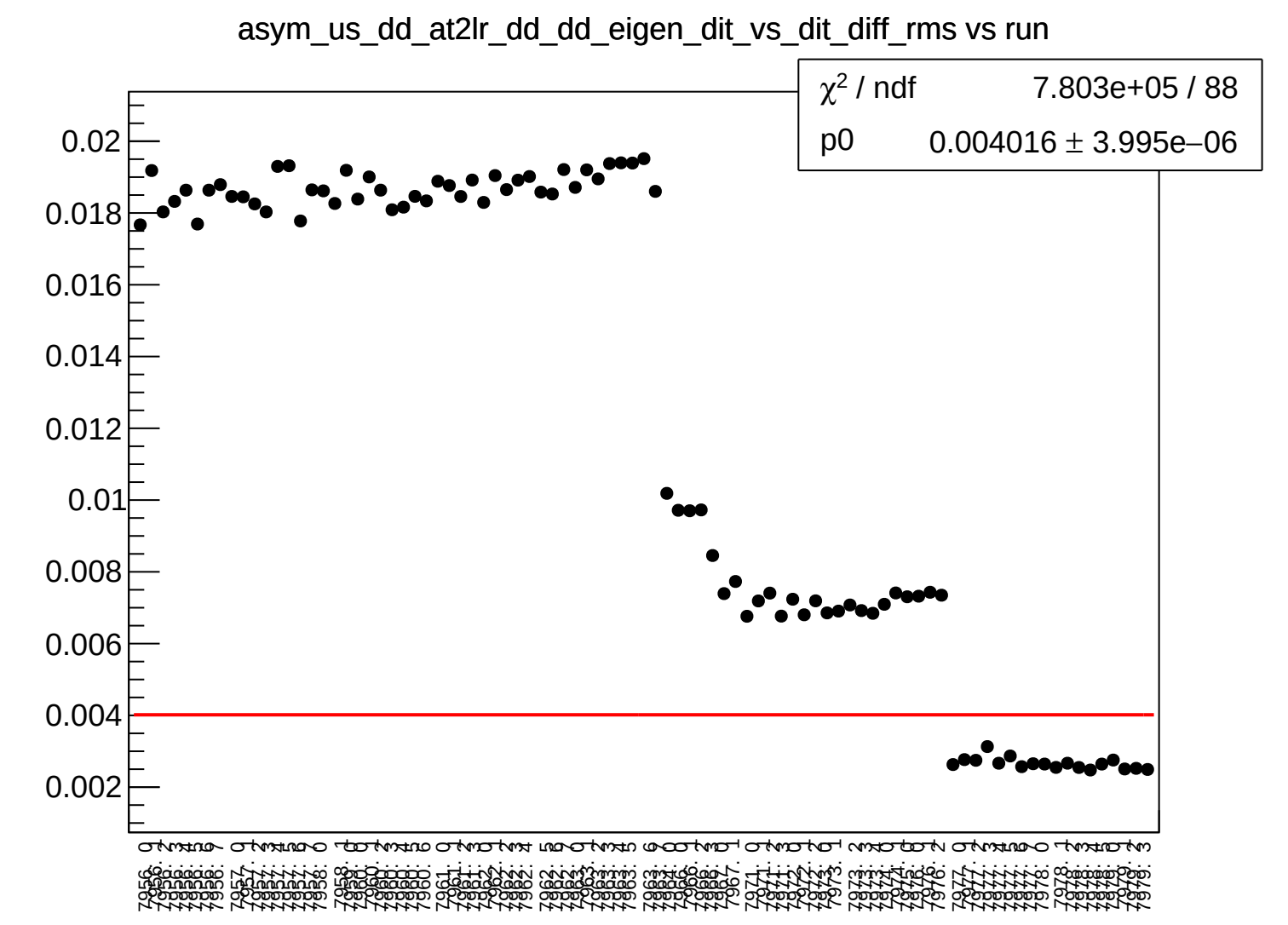

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.77e+05 / 88
p0 85.94 ± 0.06765
240
220
200
180
160
140
120
100
80
60
40

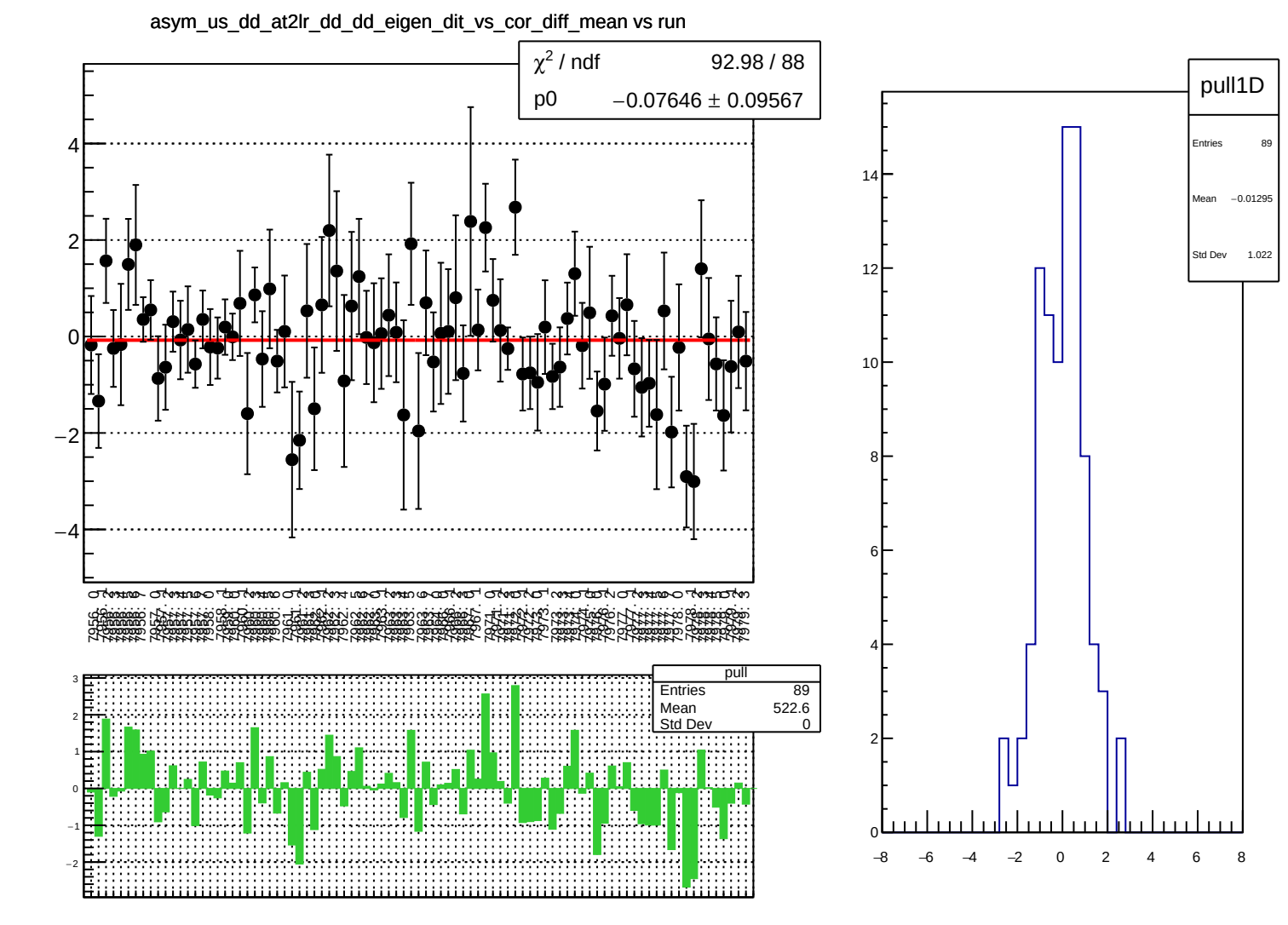

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.97 / 88
p0 −0.0765 ± 0.09567
pull
Entries 89
Mean 523
Std Dev 0
pull1D
Entries 89
Mean −0.01294
Std Dev 1.022

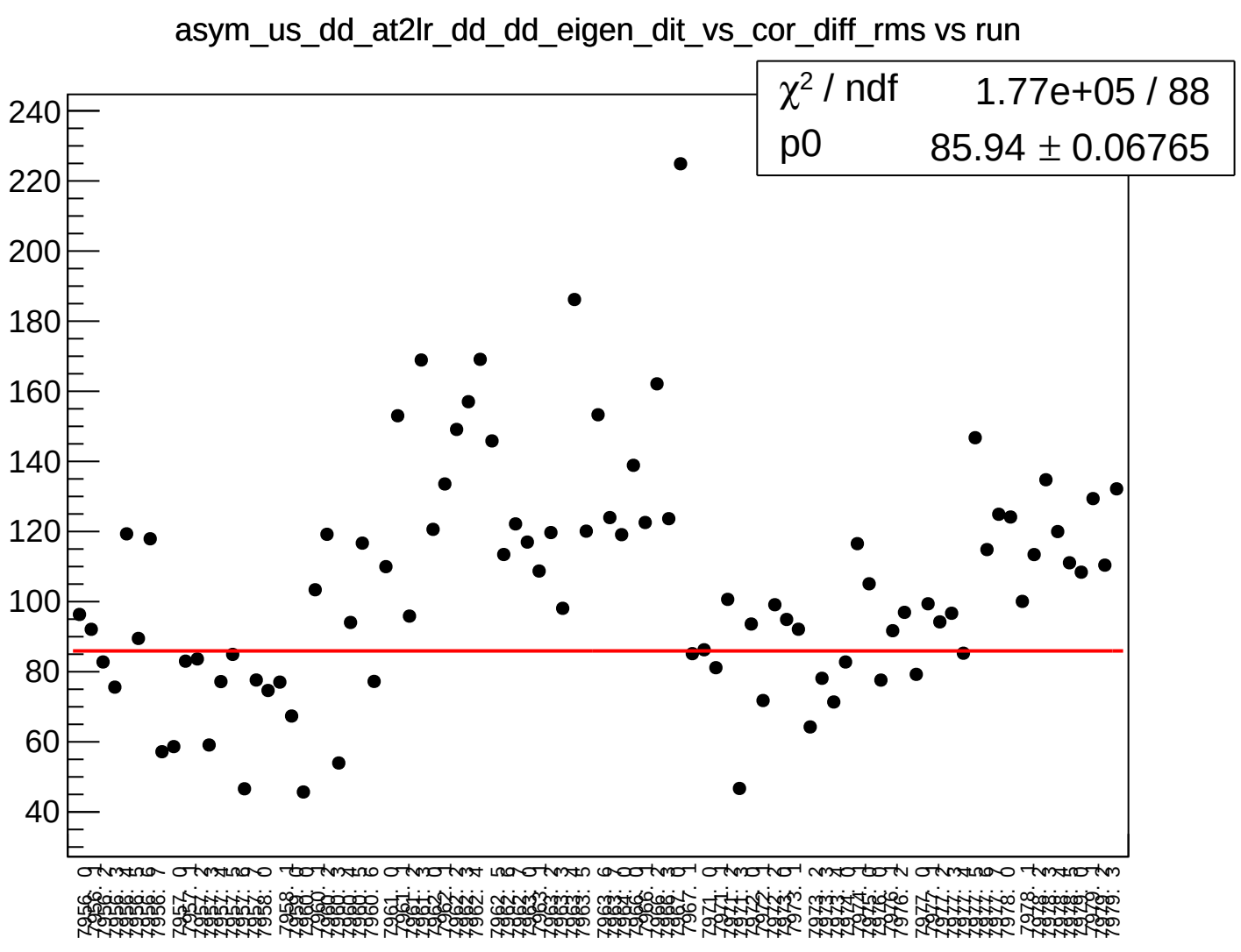

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.77e+05 / 88
p0 85.94 ± 0.06765
240
220
200
180
160
140
120
100
80
60
40

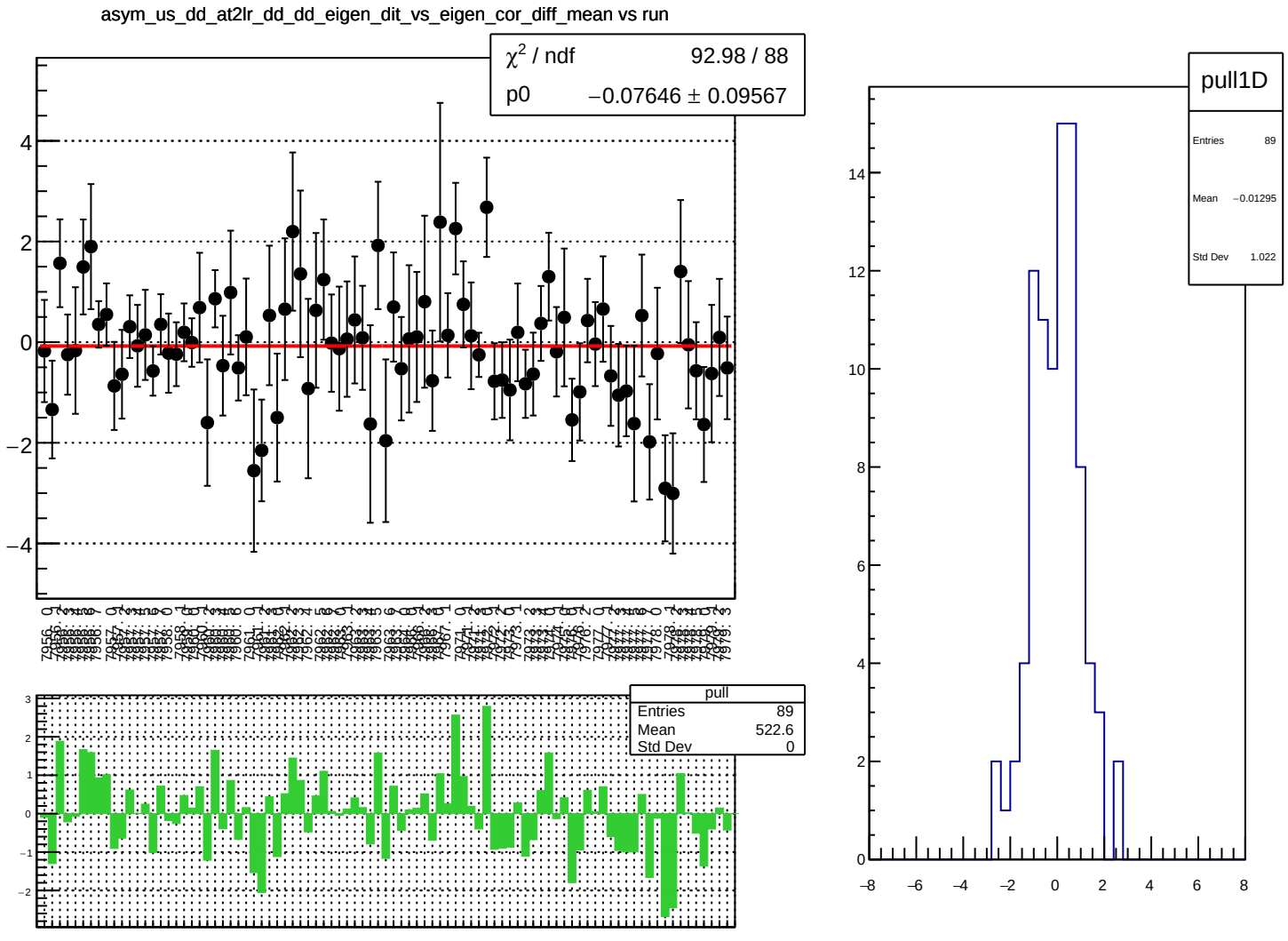

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 117.9 / 88
p0 1.25e−05 ± 5.65e−06
pull
Entries 89
Mean 117.9
Std Dev 0

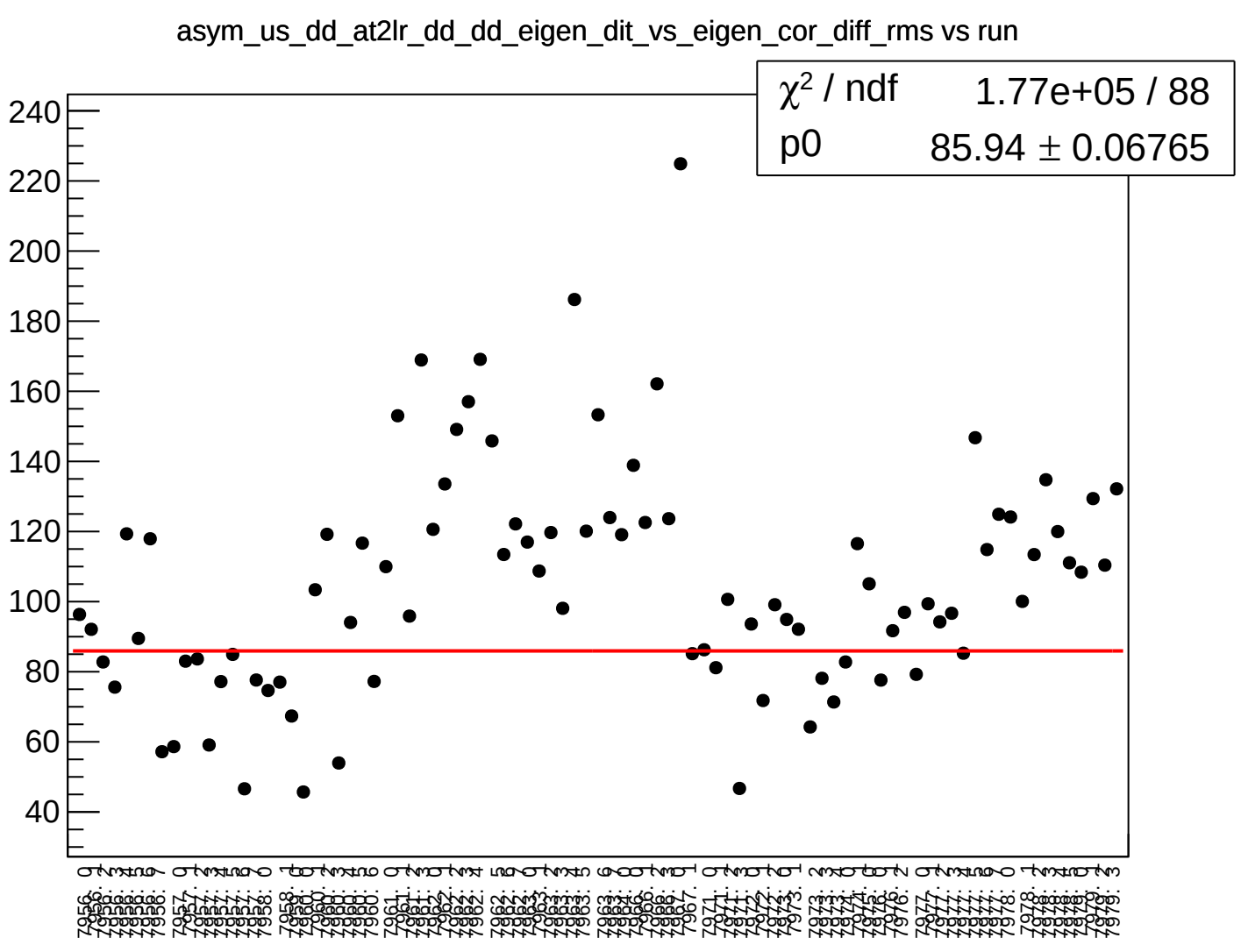

pull1D
Entries 89
Mean 0.0112
Std Dev 1.151

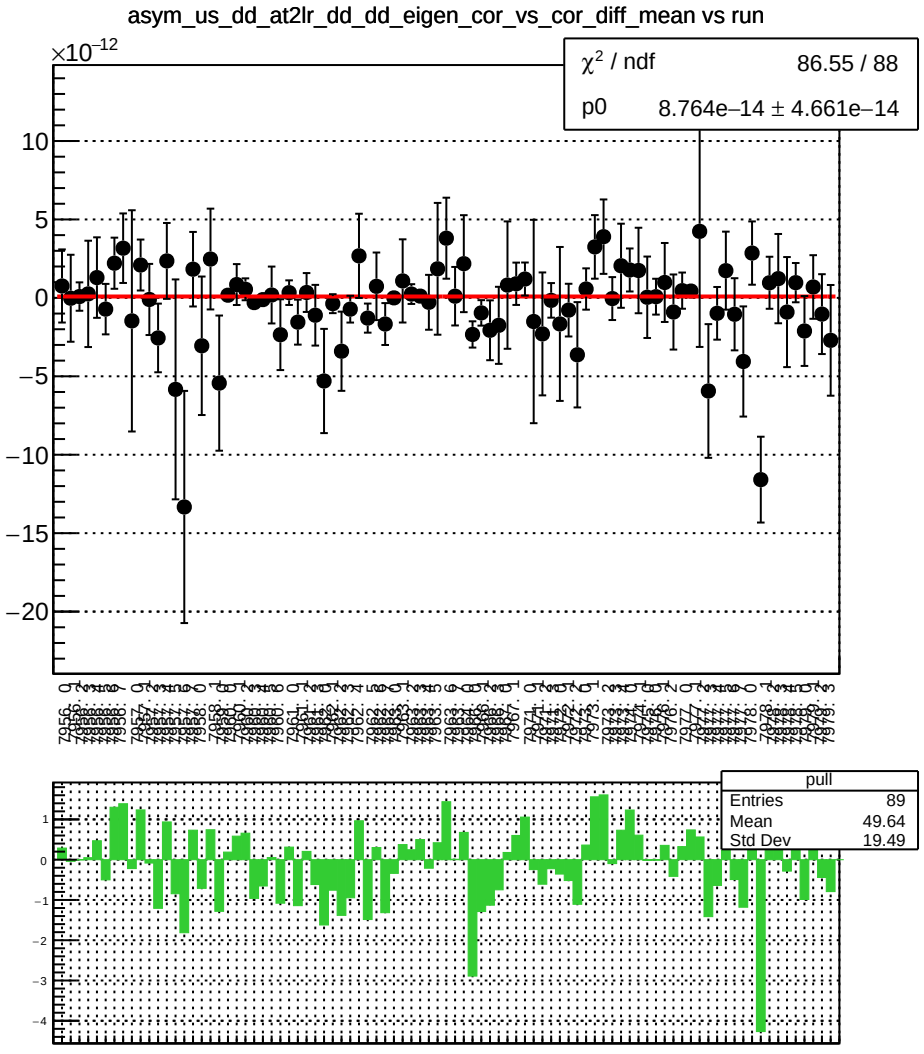

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.803e+05 / 88
p0 0.004016 ± 3.995e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

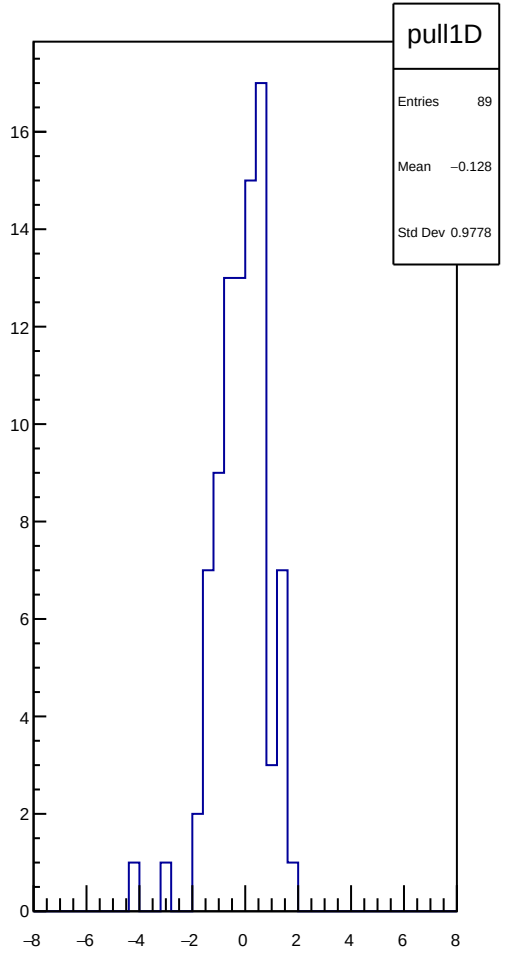

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.98 / 88
p0 −0.07646 ± 0.09567
pull
Entries 89
Mean 522.6
Std Dev 0
pull1D
Entries 89
Mean −0.01295
Std Dev 1.022

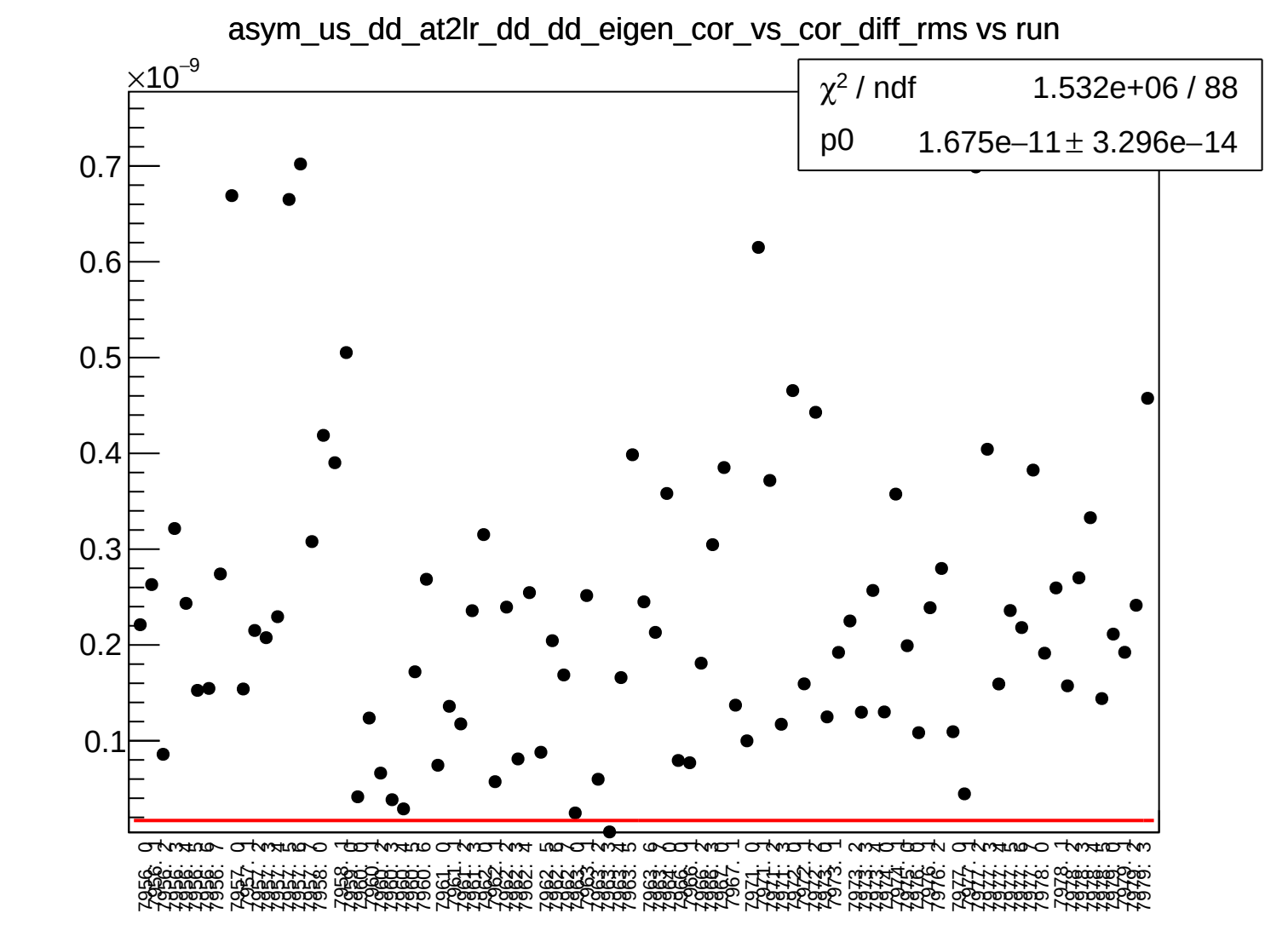

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.77e+05 / 88
p0 85.94 ± 0.06765
240
220
200
180
160
140
120
100
80
60
40

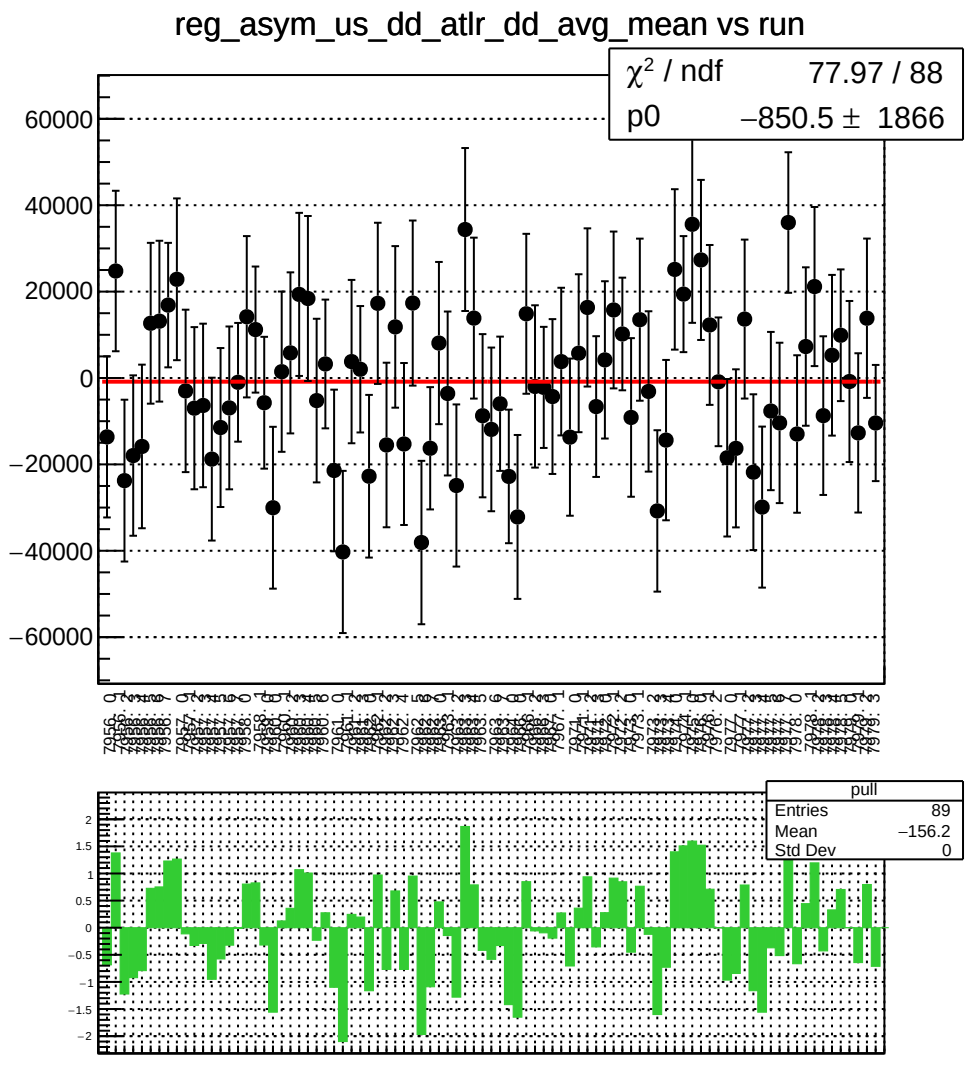

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.98 / 88
p0 −0.07646 ± 0.09567
pull
Entries 89
Mean 522.6
Std Dev 0
pull1D
Entries 89
Mean −0.01295
Std Dev 1.022

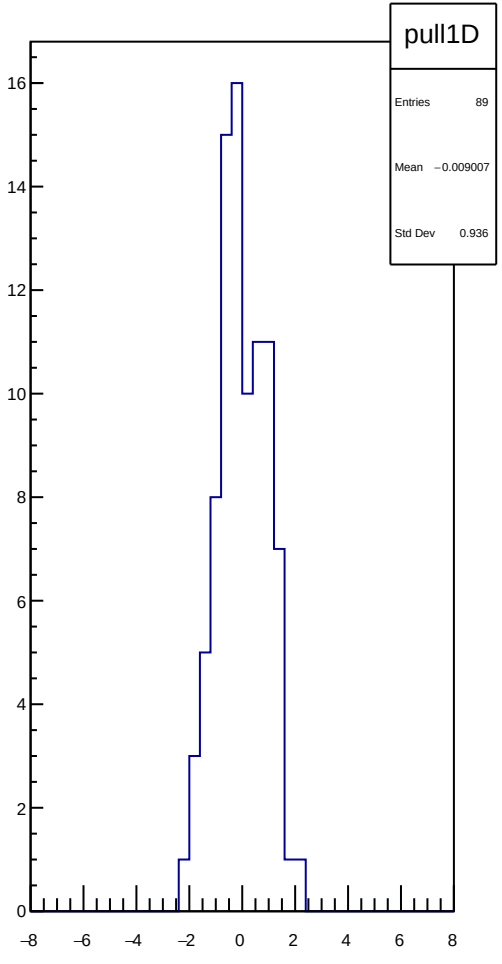

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.77e+05 / 88
p0 85.94 ± 0.06765
240
220
200
180
160
140
120
100
80
60
40

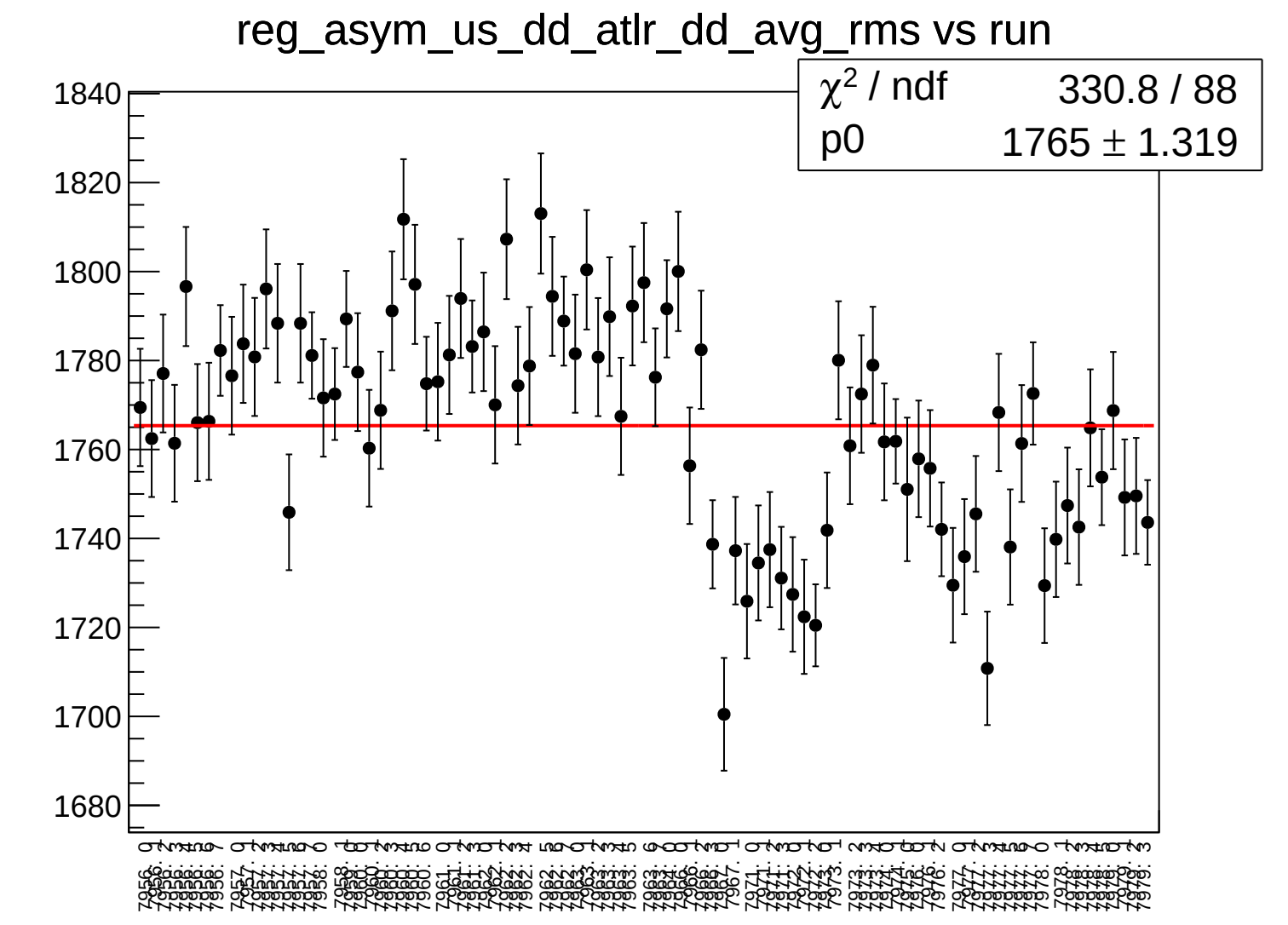

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.55 / 88
p0 8.764e−14 ± 4.661e−14
pull
Entries 89
Mean 49.64
Std Dev 19.49

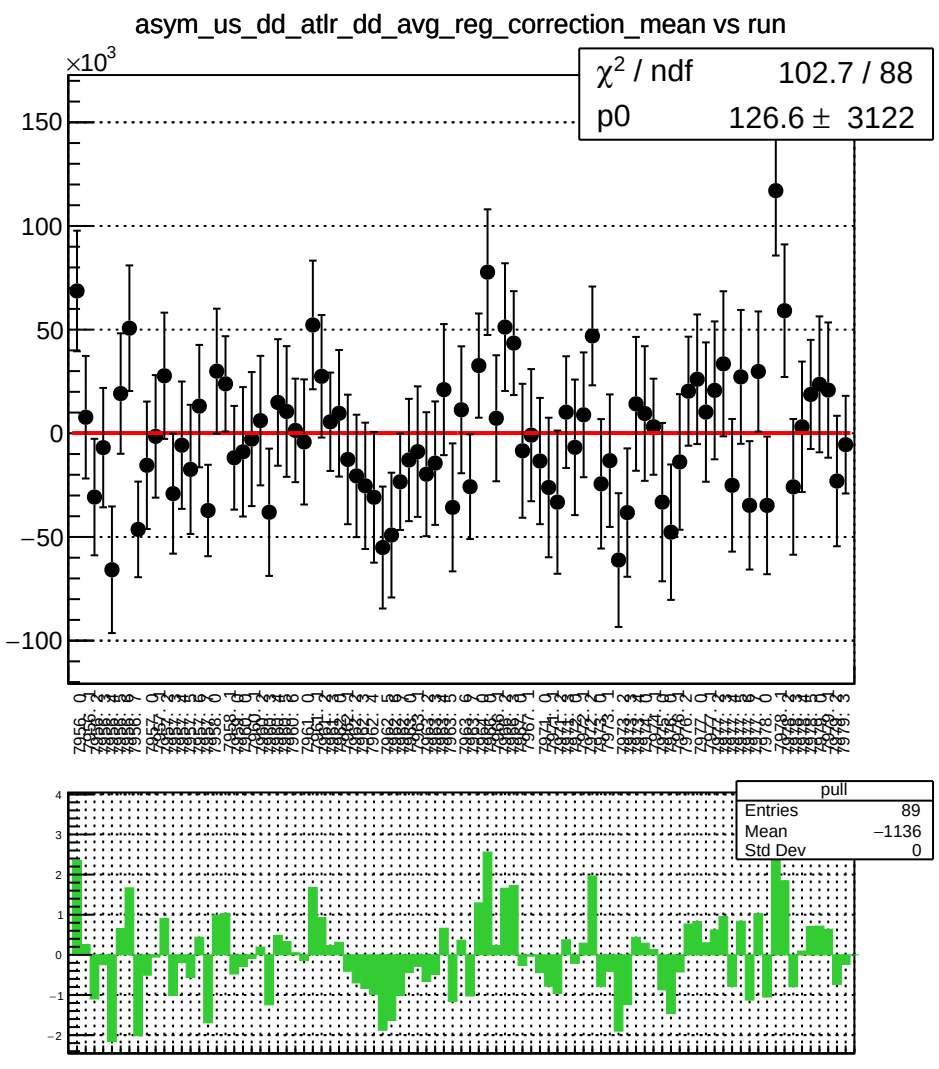

pull1D
Entries 89
Mean −0.128
Std Dev 0.9778

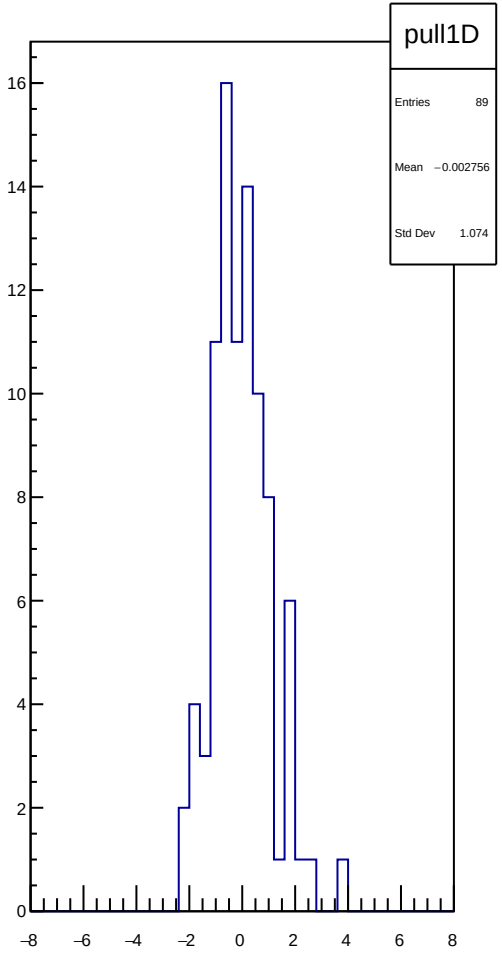

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.532e+06 / 88
p0 1.675e−11 ± 3.296e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

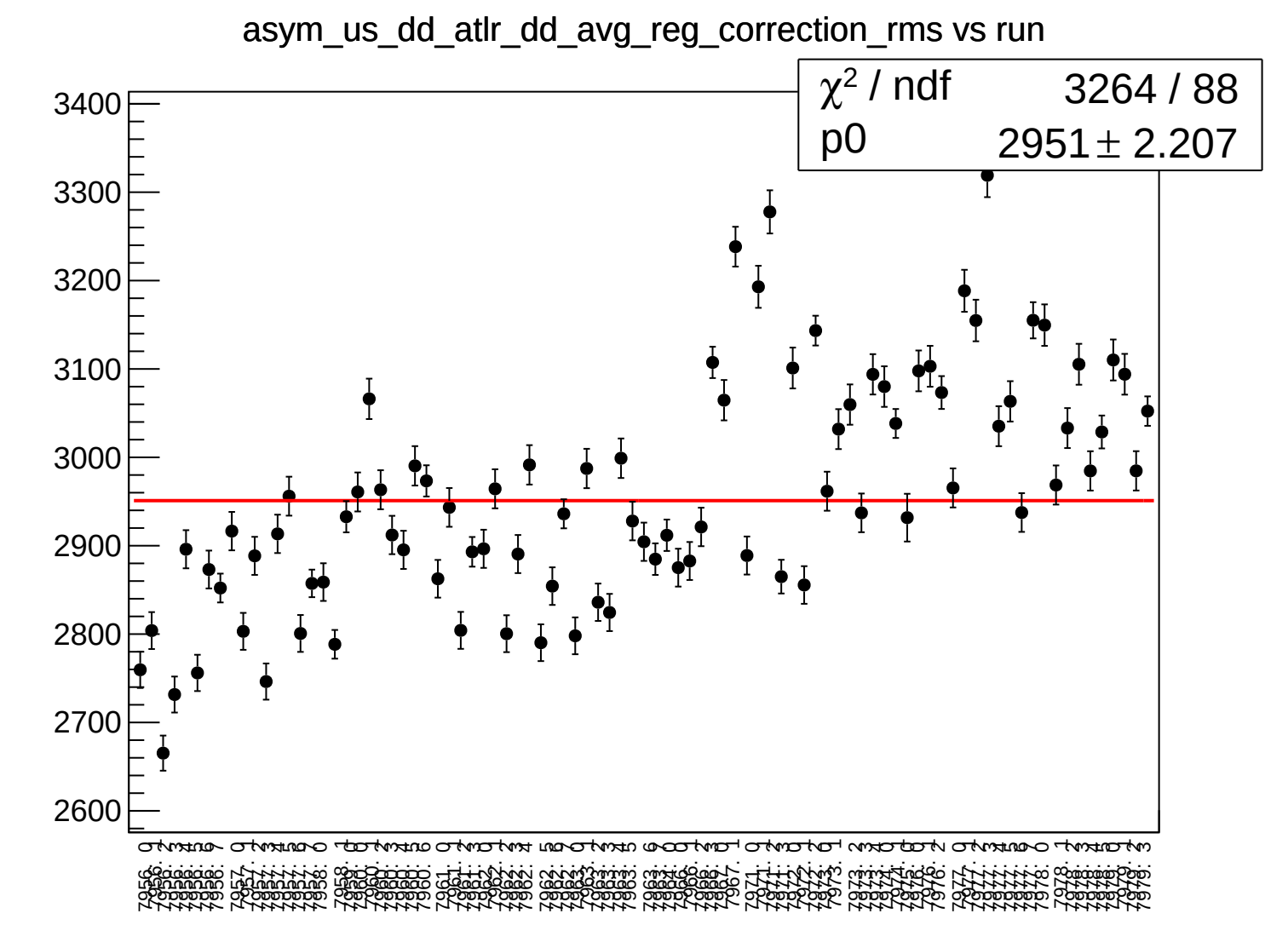

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 77.97 / 88
p0 −850.5 ± 1866
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −156.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

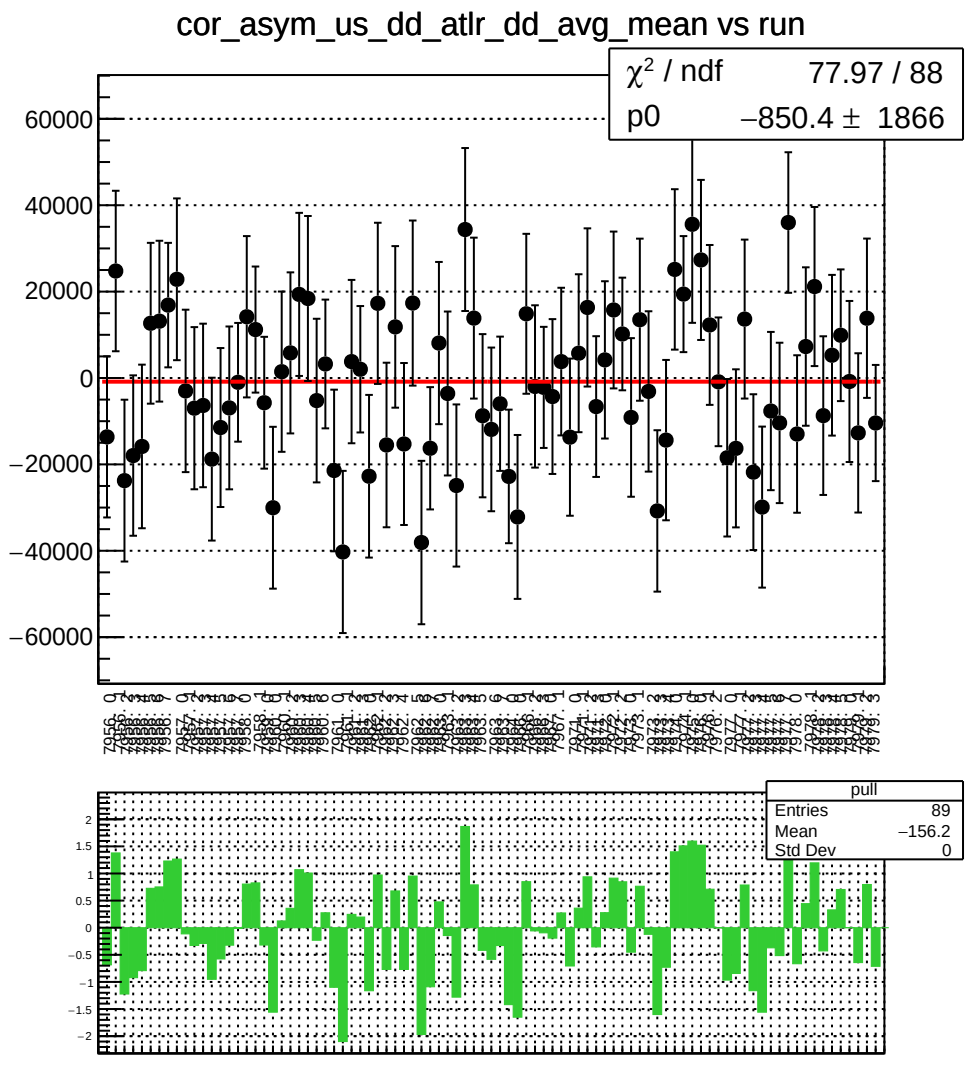

pull1D
Entries 89
Mean −0.009007
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

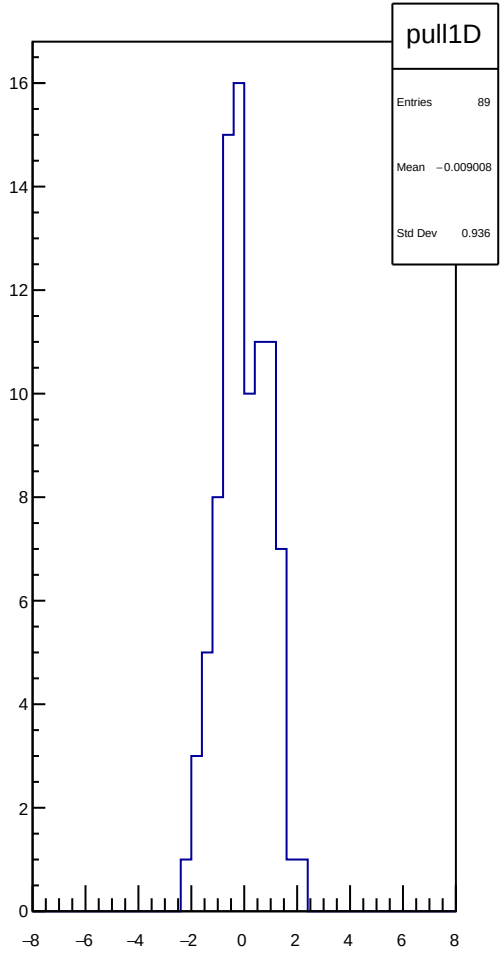

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 330.8 / 88
p0 1765 ± 1.319
1840
1820
1800
1780
1760
1740
1720
1700
1680

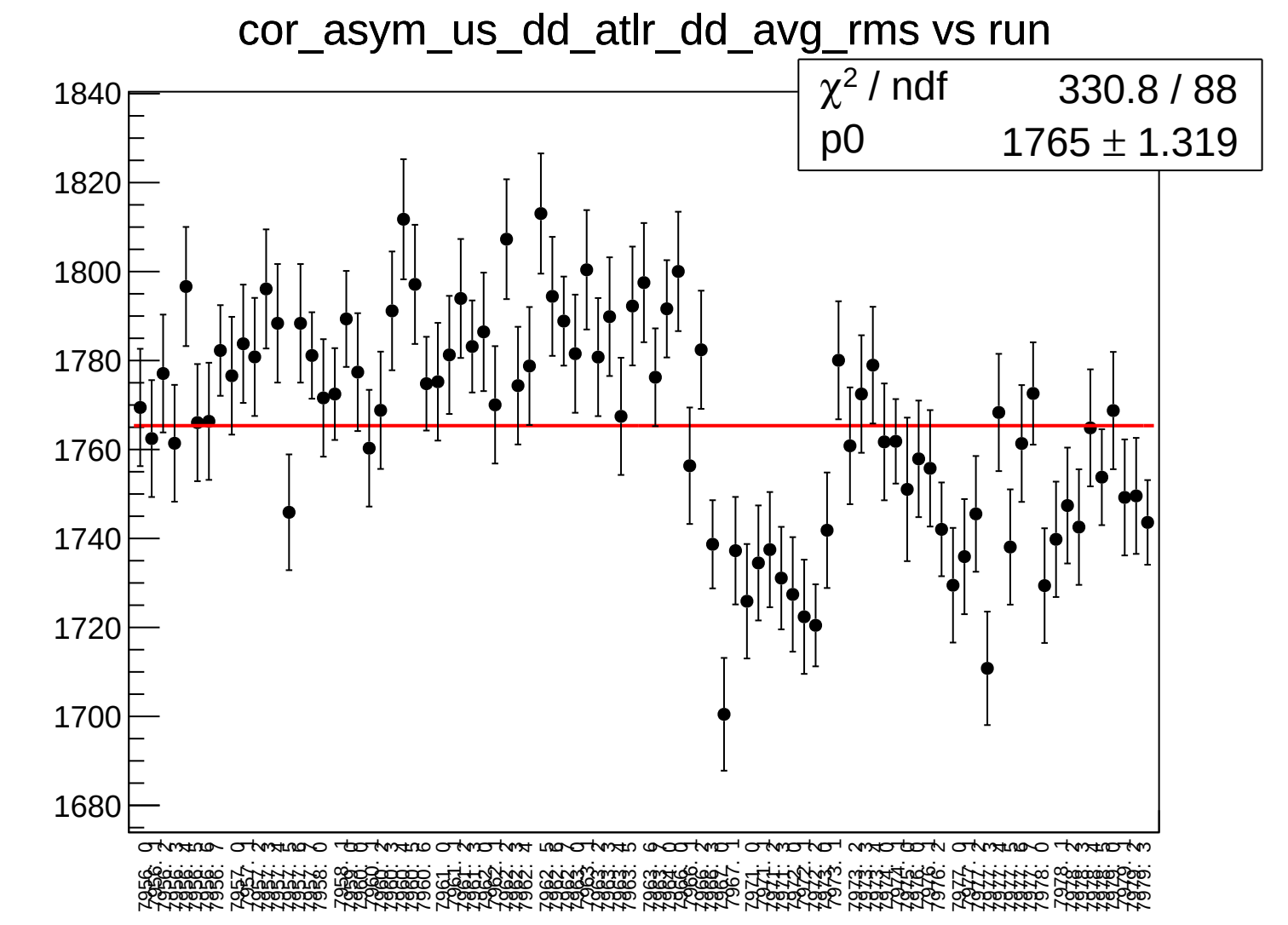

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 102.7 / 88
p0 126.6 ± 3122
150
100
50
0
−50
−100
pull
Entries 89
Mean −1136
Std Dev 0
4
3
2
1
0
−1
−2

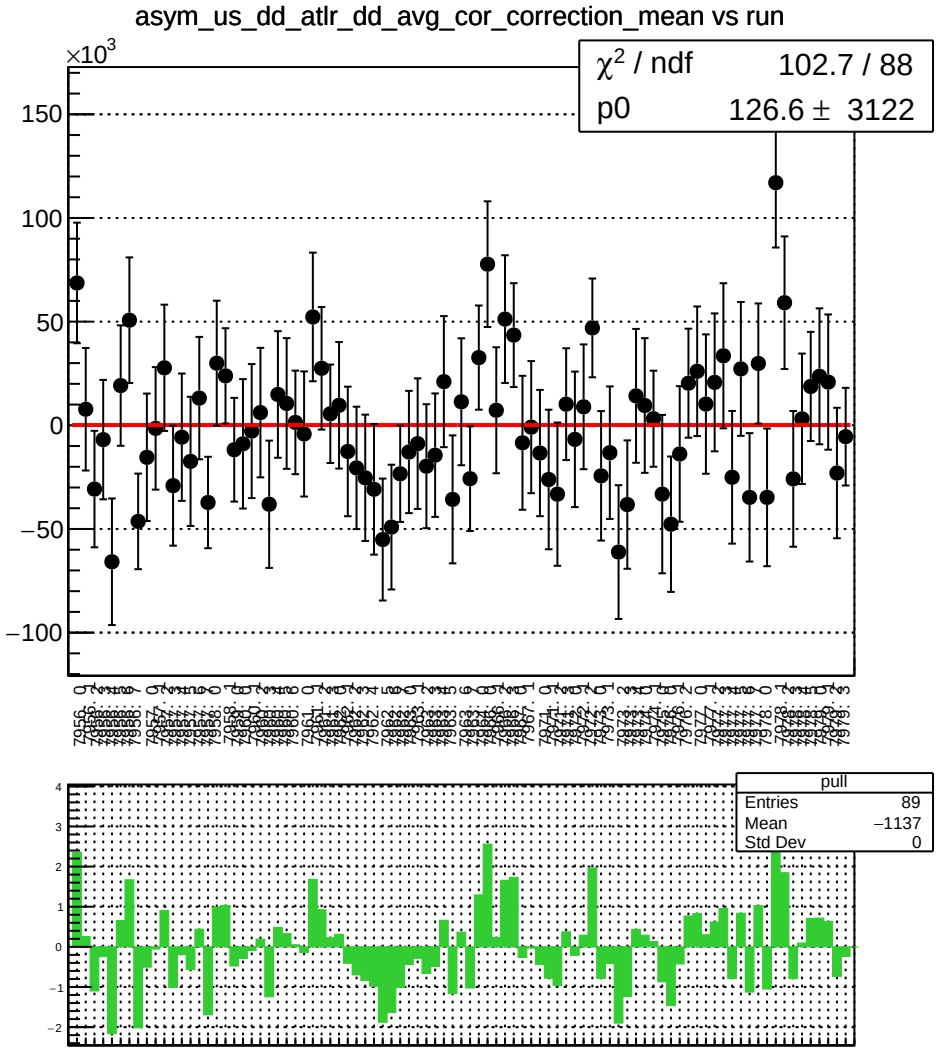

pull1D
Entries 89
Mean −0.002756
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

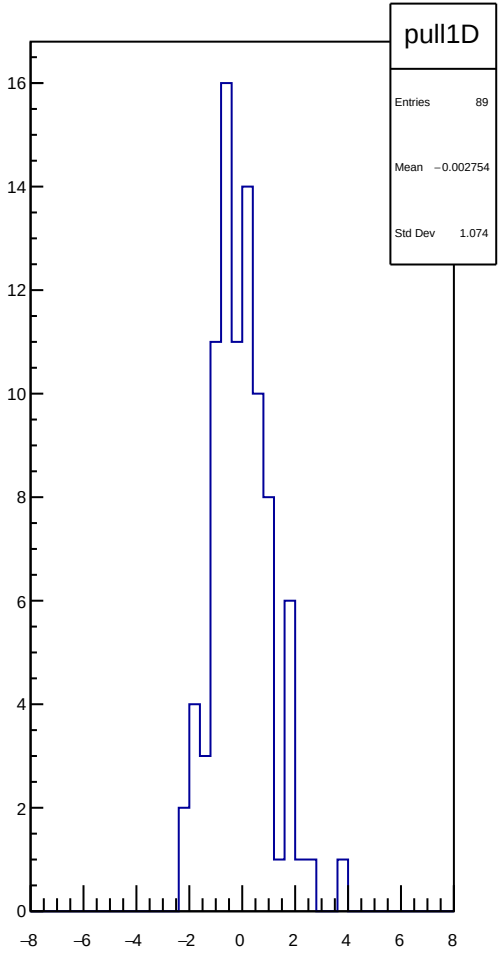

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 3264 / 88
p0 2951 ± 2.207
3400
3300
3200
3100
3000
2900
2800
2700
2600

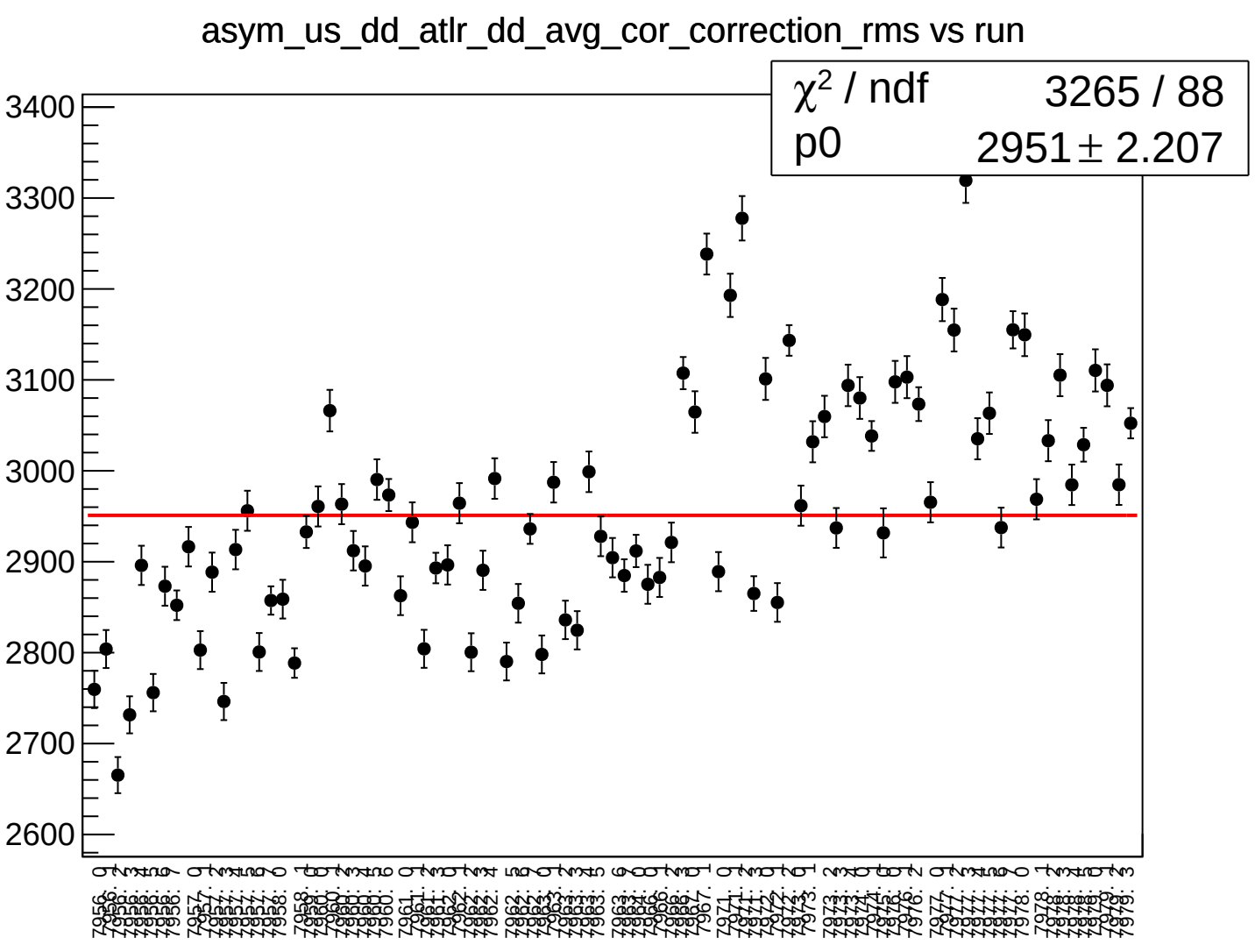

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 77.97 / 88
p0 −850.4 ± 1866
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −156.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

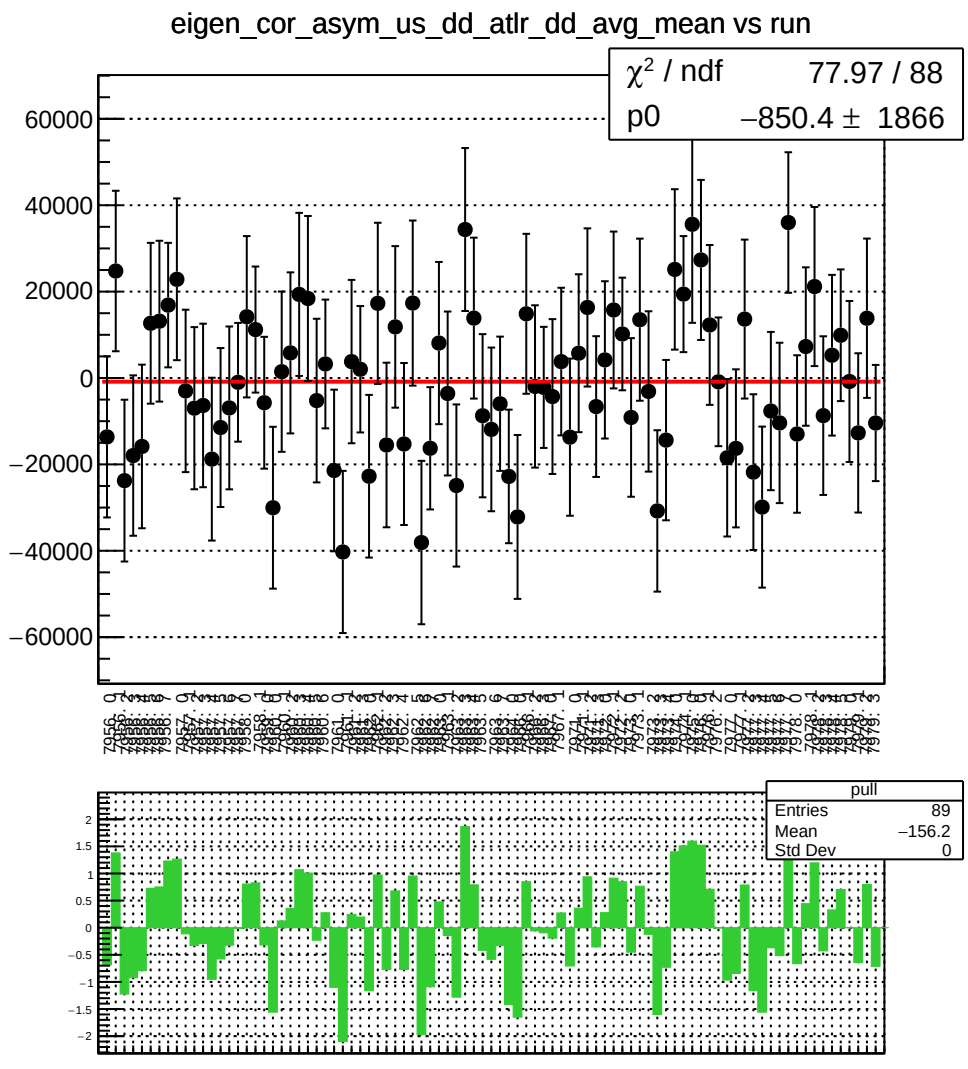

pull1D
Entries 89
Mean −0.009008
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

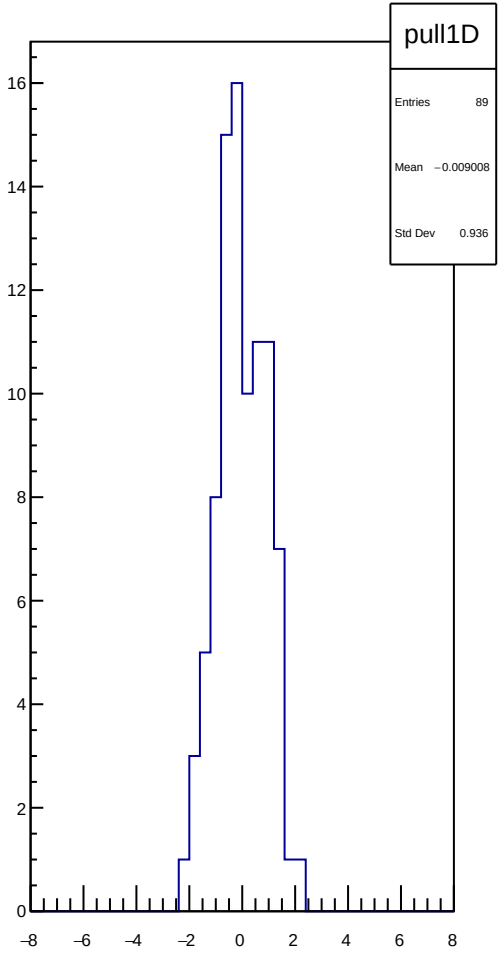

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 330.8 / 88
p0 1765 ± 1.319
1840
1820
1800
1780
1760
1740
1720
1700
1680

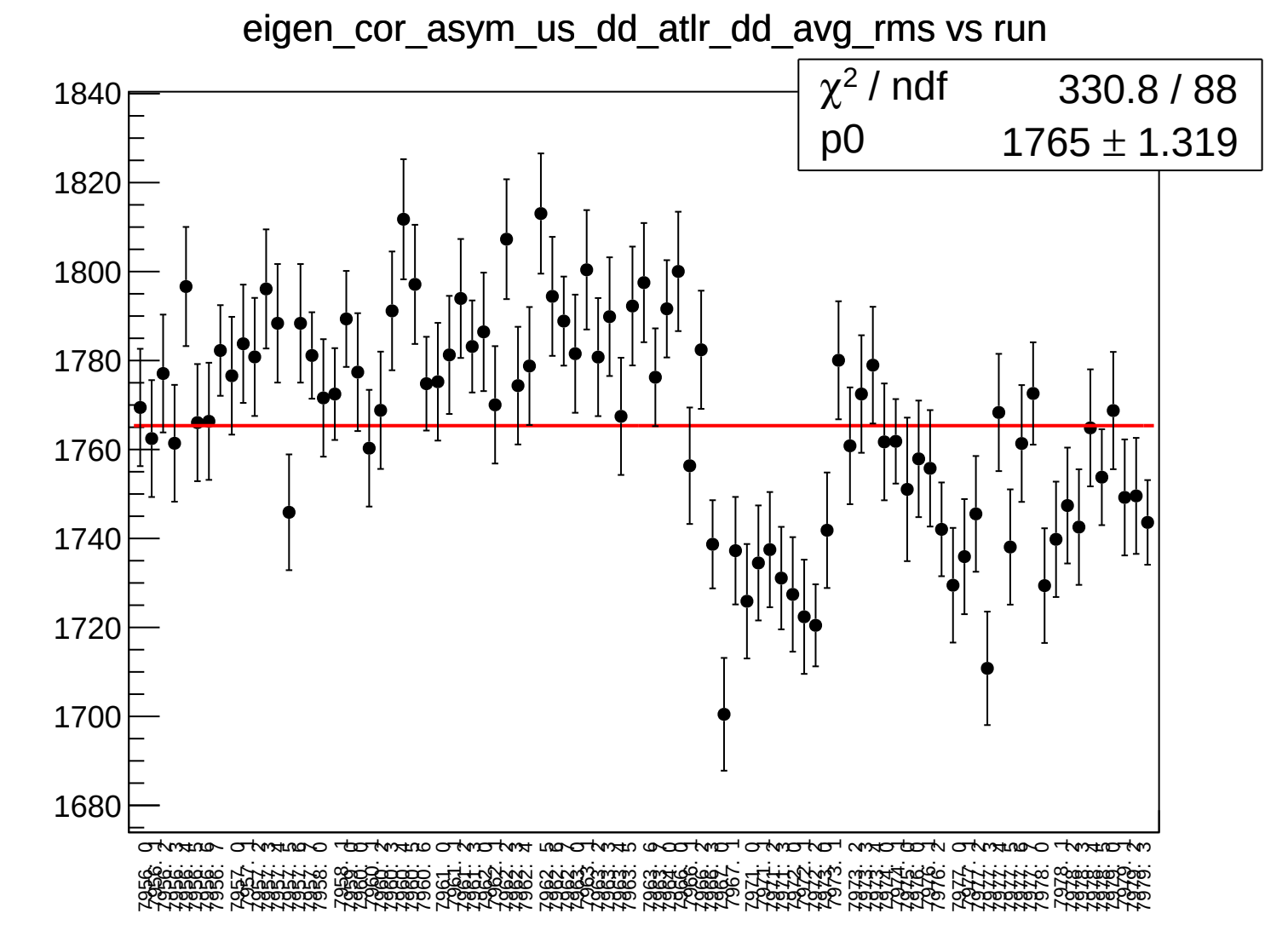

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 102.7 / 88
p0 126.6 ± 3122
150
100
50
0
−50
−100
pull
Entries 89
Mean −1137
Std Dev 0
4
3
2
1
0
−1
−2

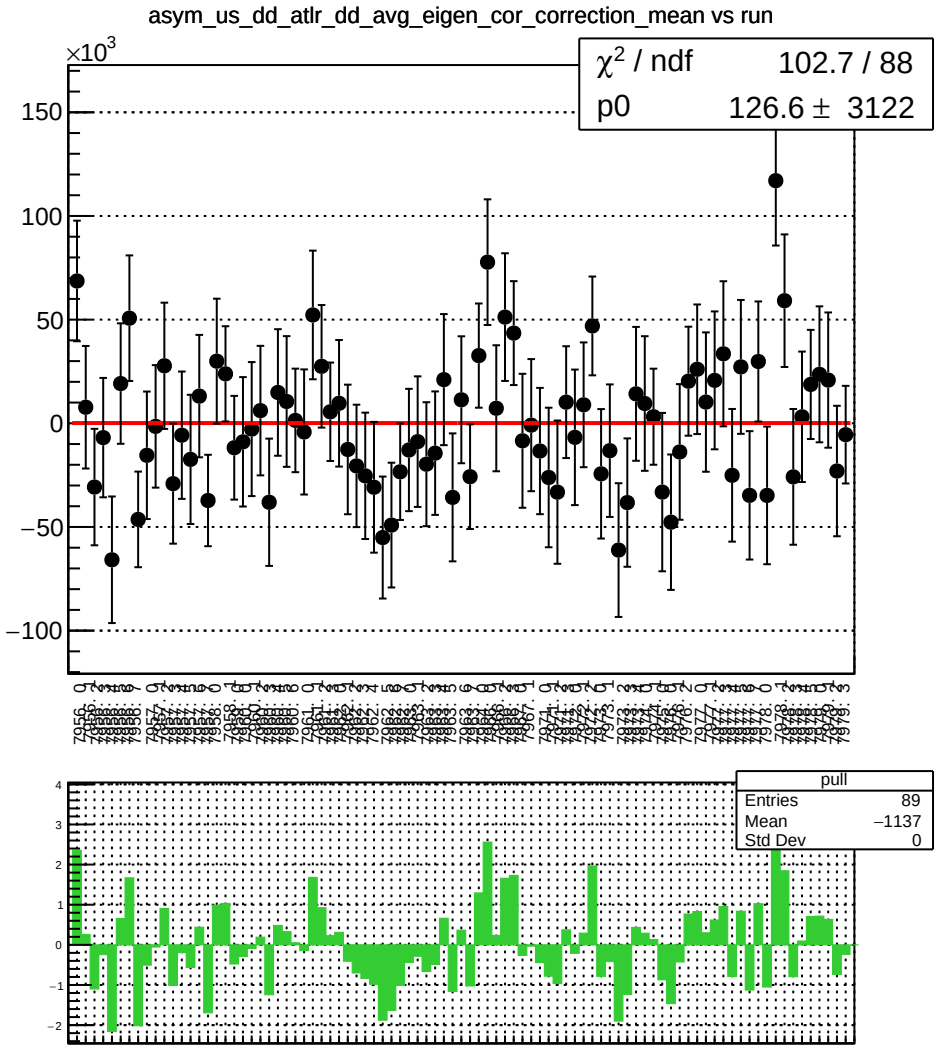

pull1D
Entries 89
Mean −0.002754
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

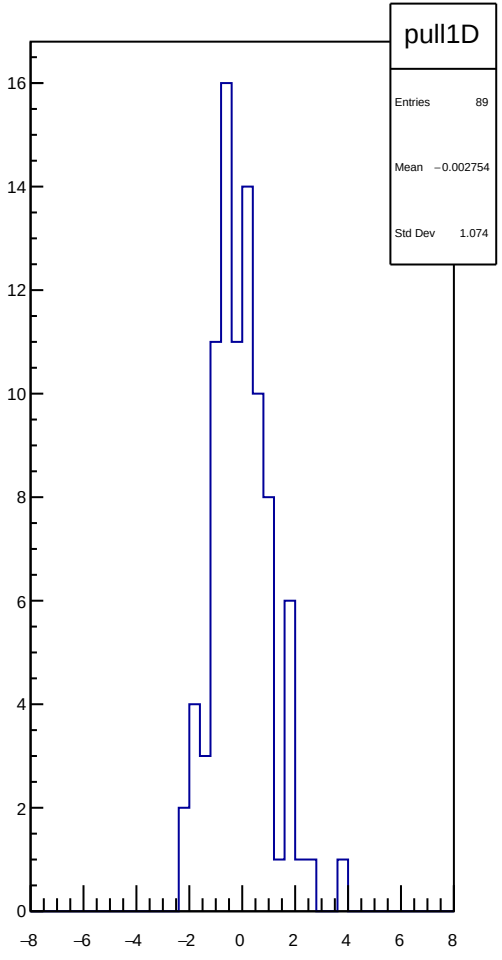

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 3265 / 88
p0 2951 ± 2.207
3400
3300
3200
3100
3000
2900
2800
2700
2600

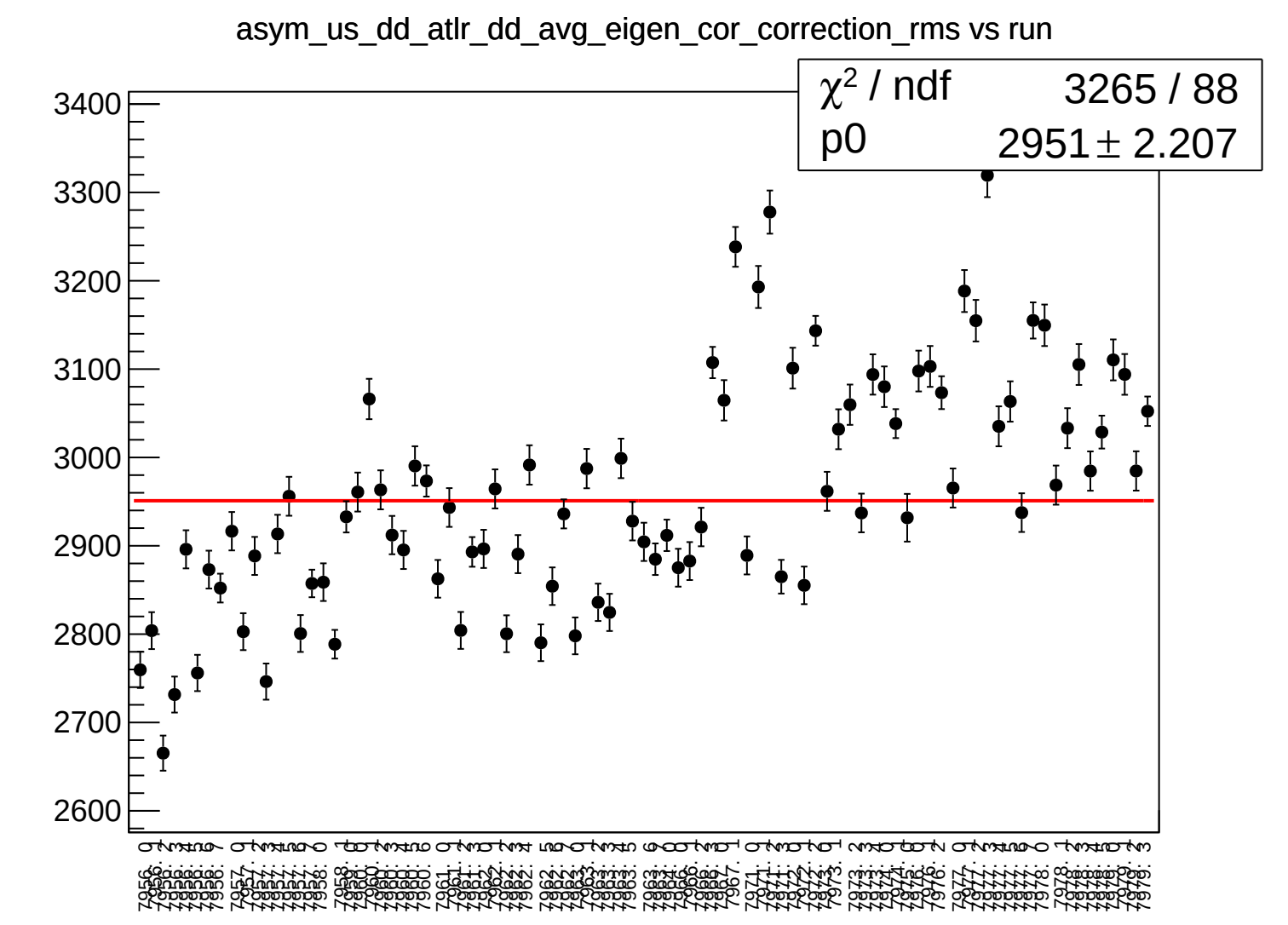

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 77.97 / 88
p0 −850.4 ± 1866
pull
Entries 89
Mean −156.2
Std Dev 0

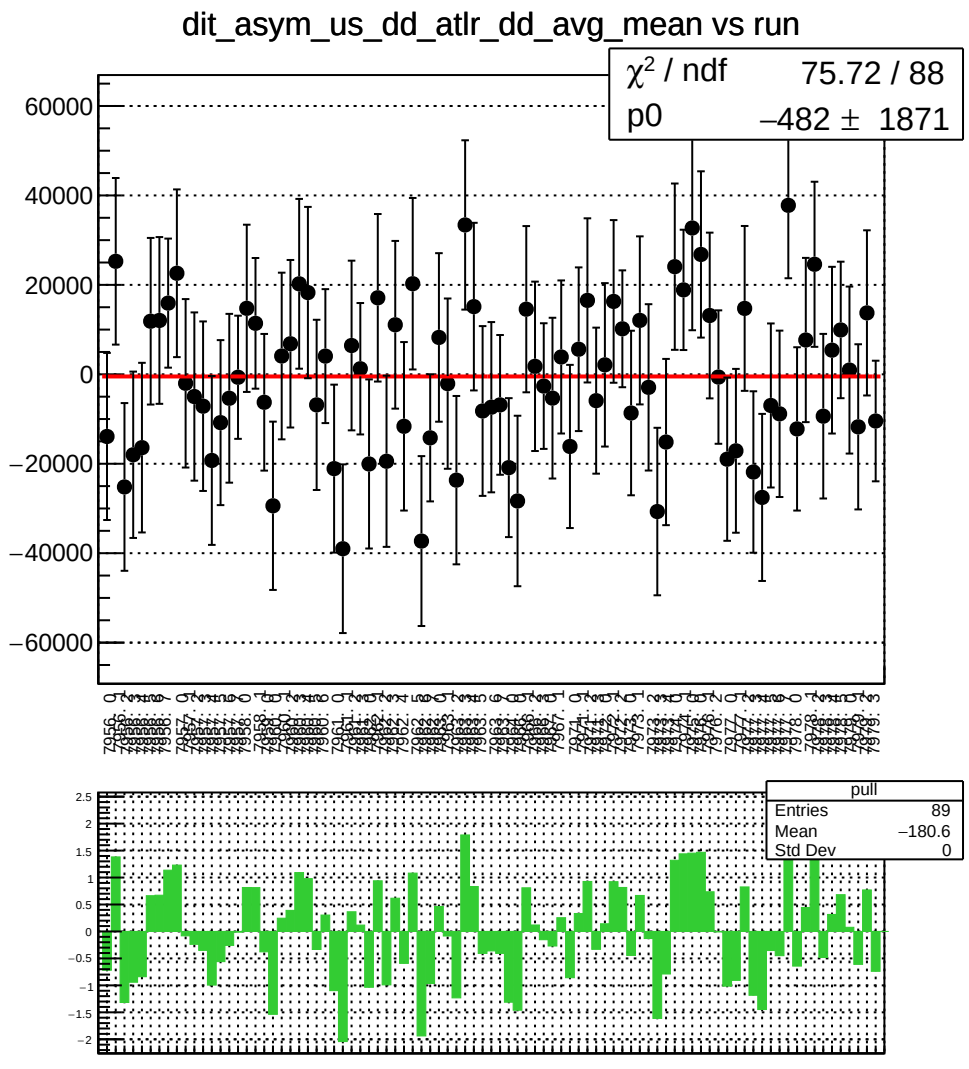

pull1D
Entries 89
Mean −0.009008
Std Dev 0.936

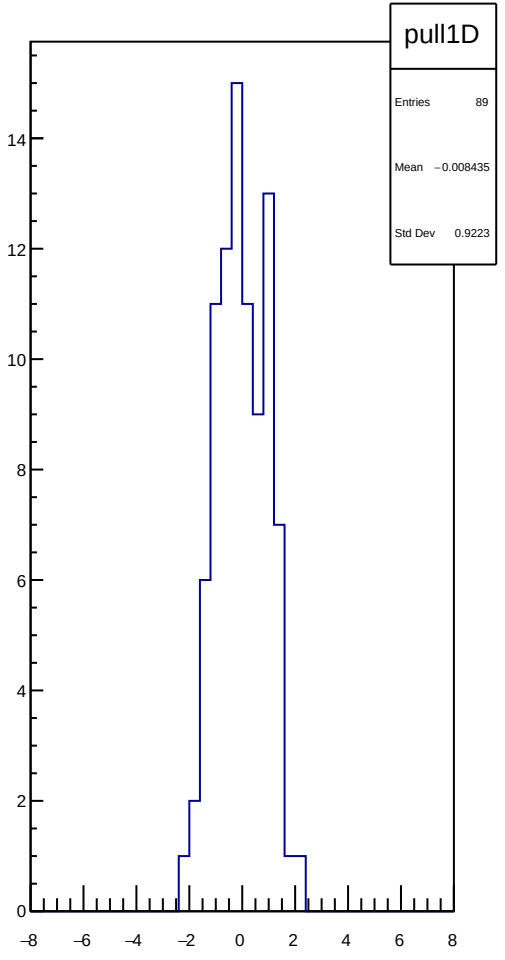

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 330.8 / 88
p0 1765 ± 1.319
1840
1820
1800
1780
1760
1740
1720
1700
1680

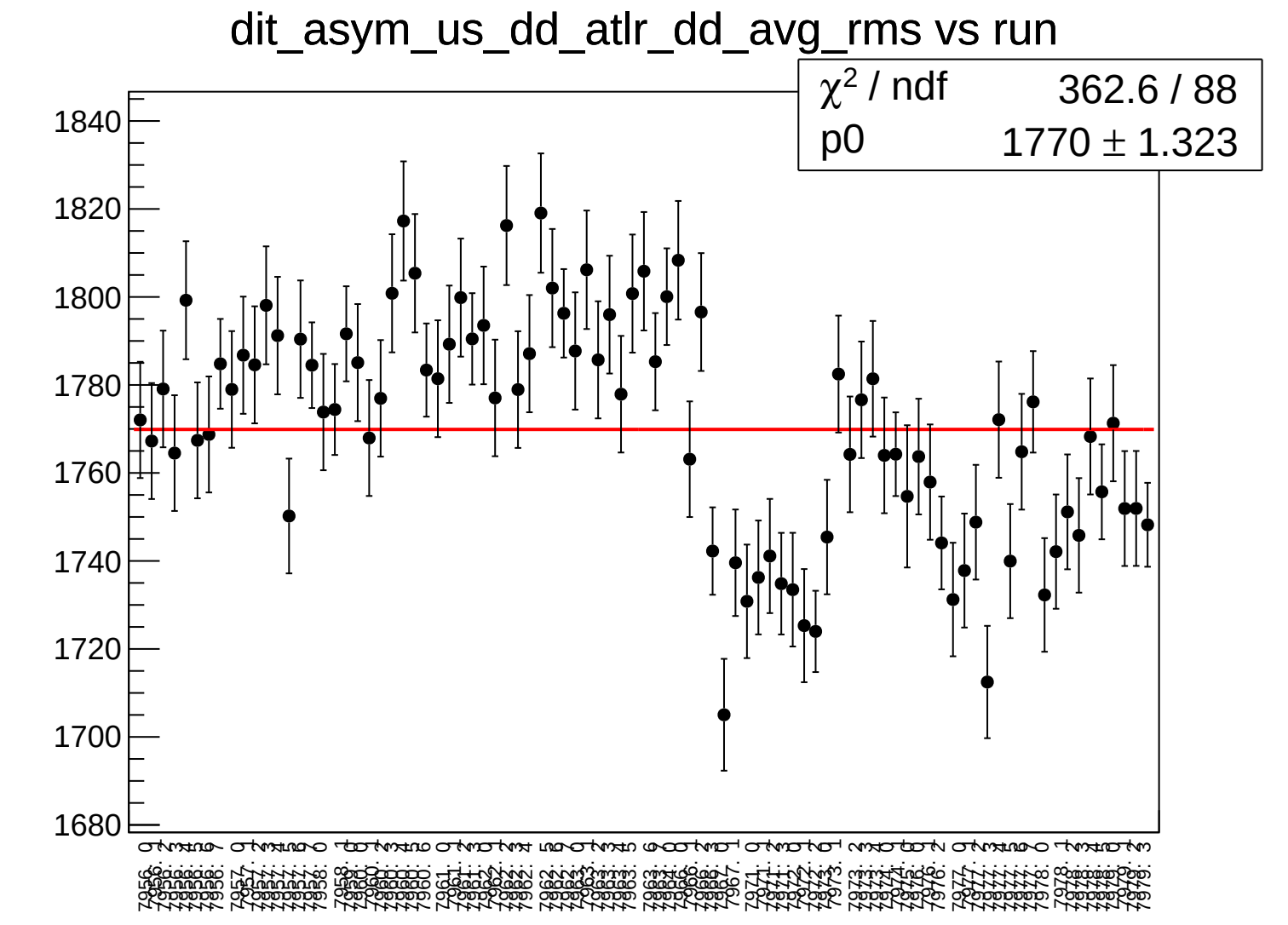

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 102.7 / 88
p0 126.6 ± 3122
150
100
50
0
−50
−100
pull
Entries 89
Mean −1137
Std Dev 0
4
3
2
1
0
−1
−2

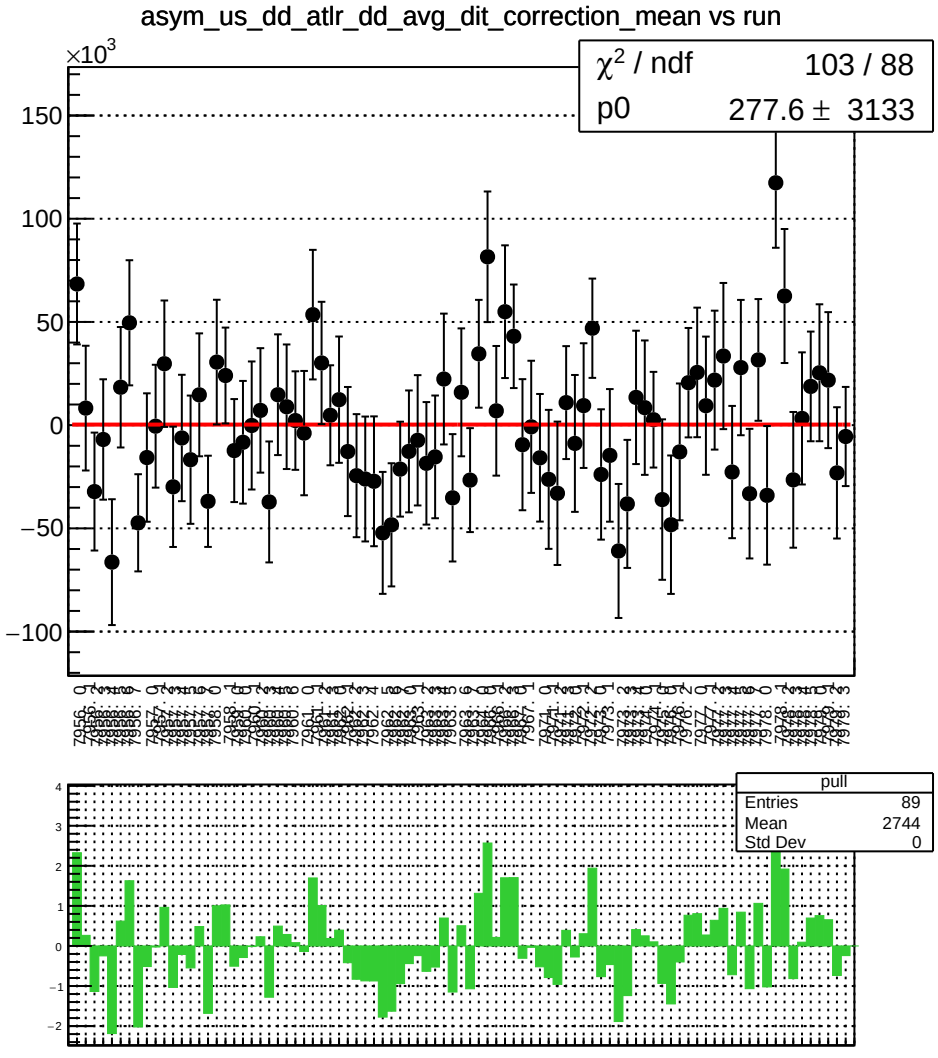

pull1D
Entries 89
Mean −0.002754
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

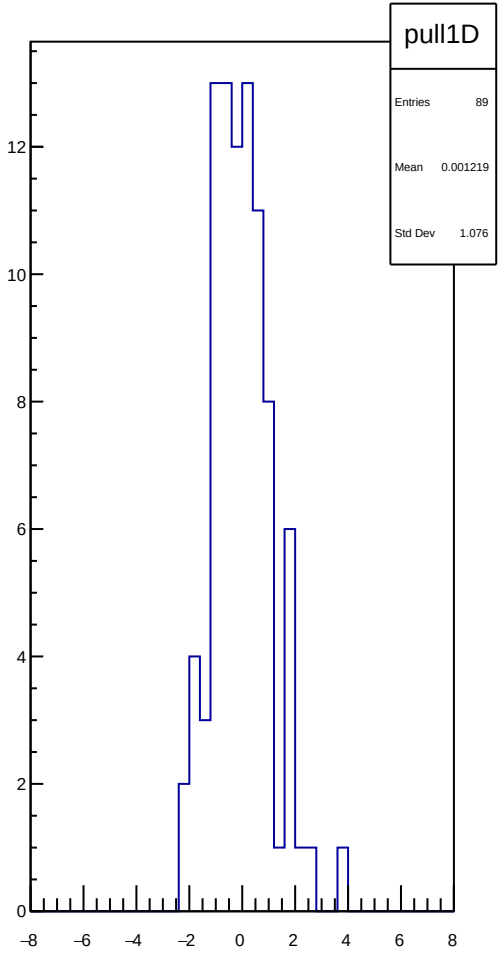

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3265 / 88
p0 2951 ± 2.207
3400
3300
3200
3100
3000
2900
2800
2700
2600

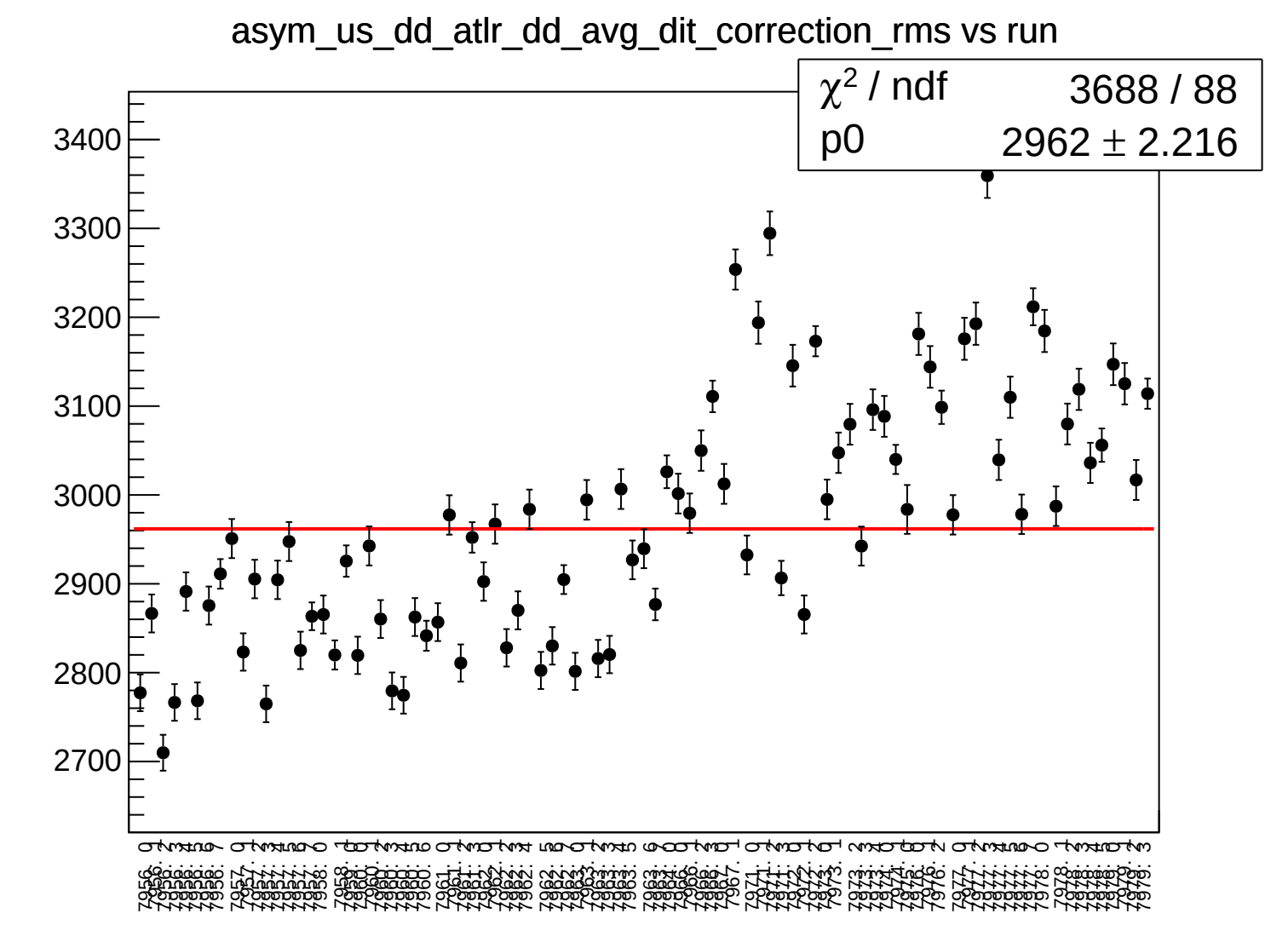

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 75.72 / 88
p0 −482 ± 1871
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −180.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

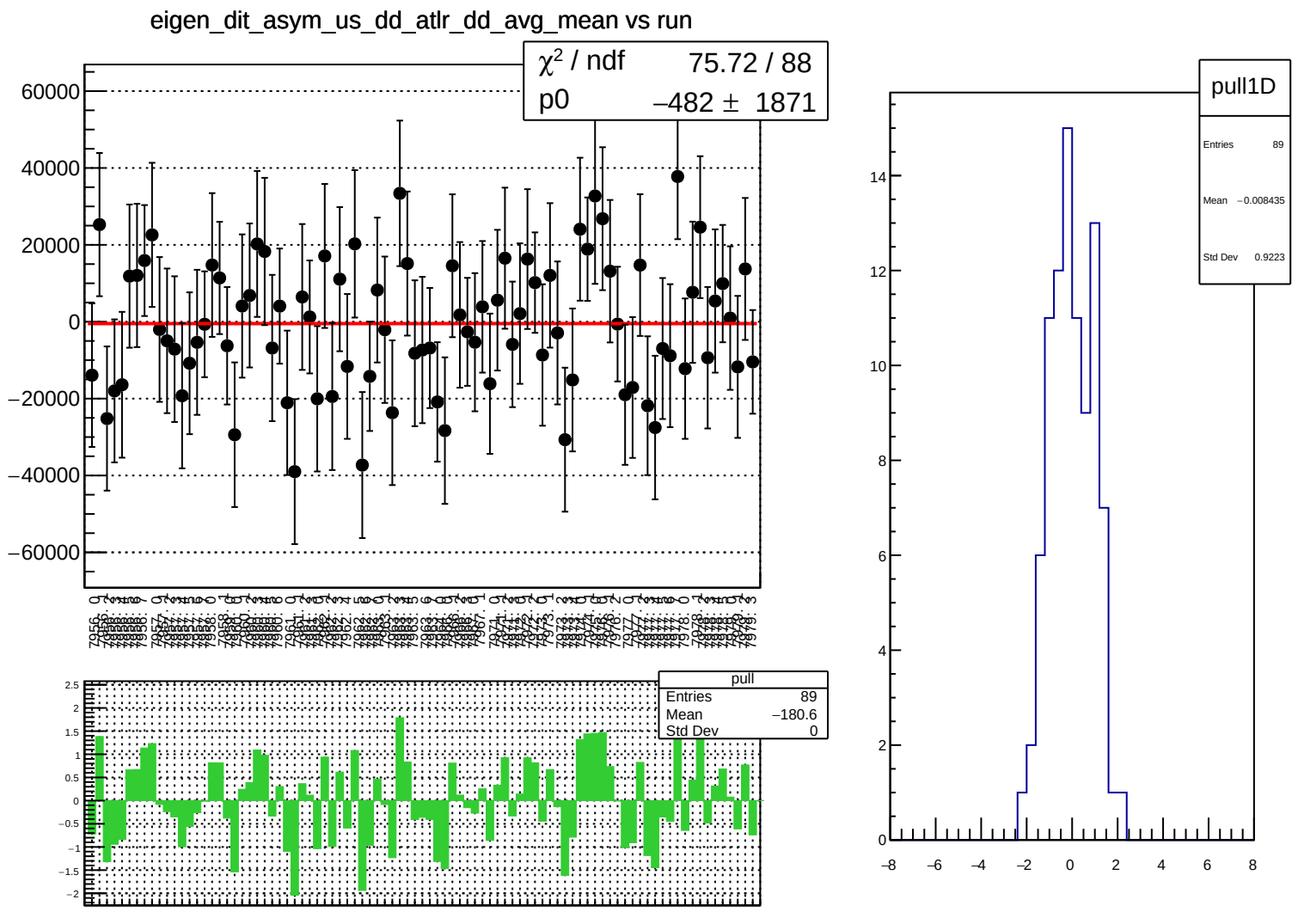

pull1D
Entries 89
Mean −0.008435
Std Dev 0.9223
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

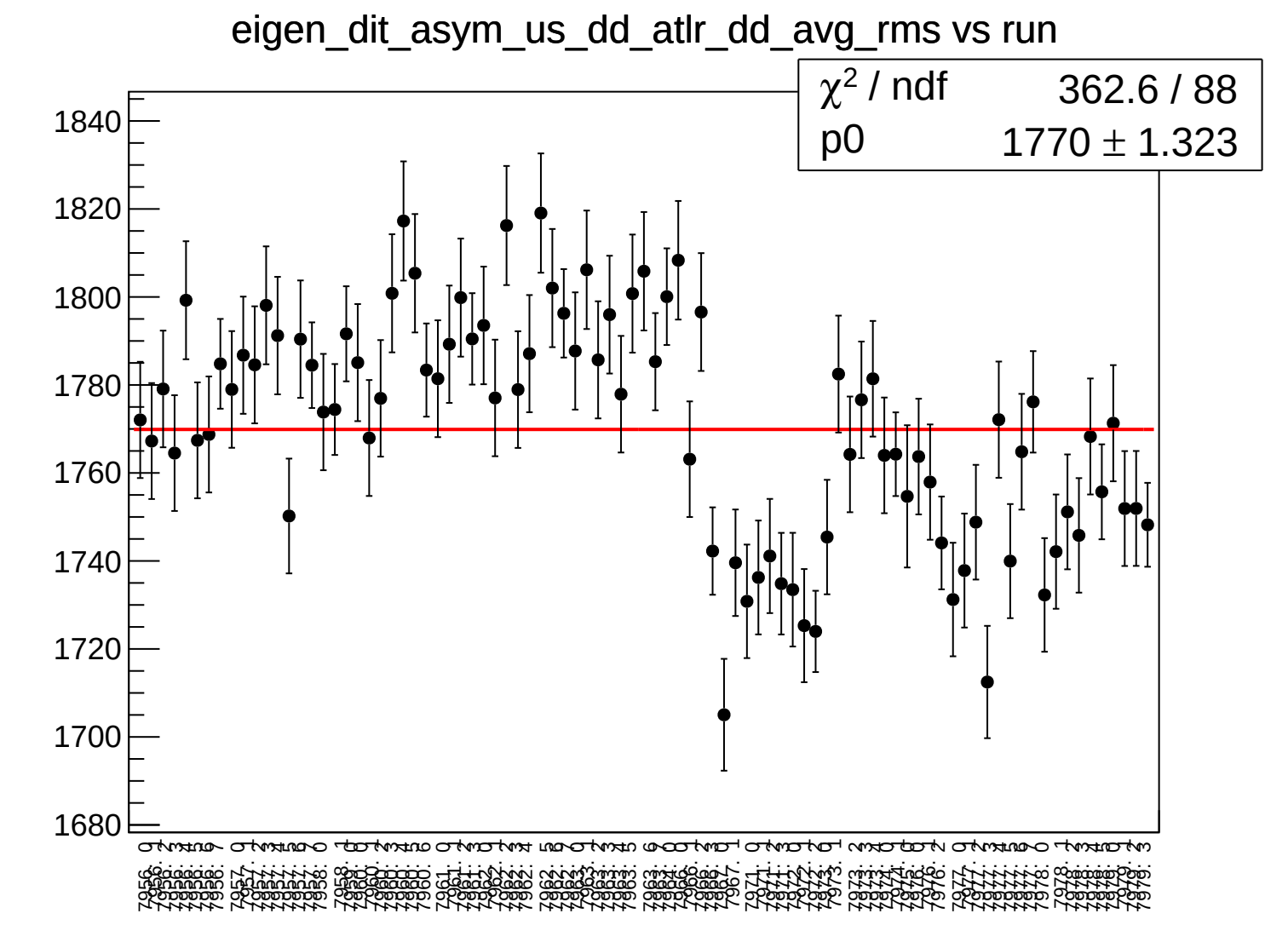

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 362.6 / 88
p0 1770 ± 1.323
1840
1820
1800
1780
1760
1740
1720
1700
1680

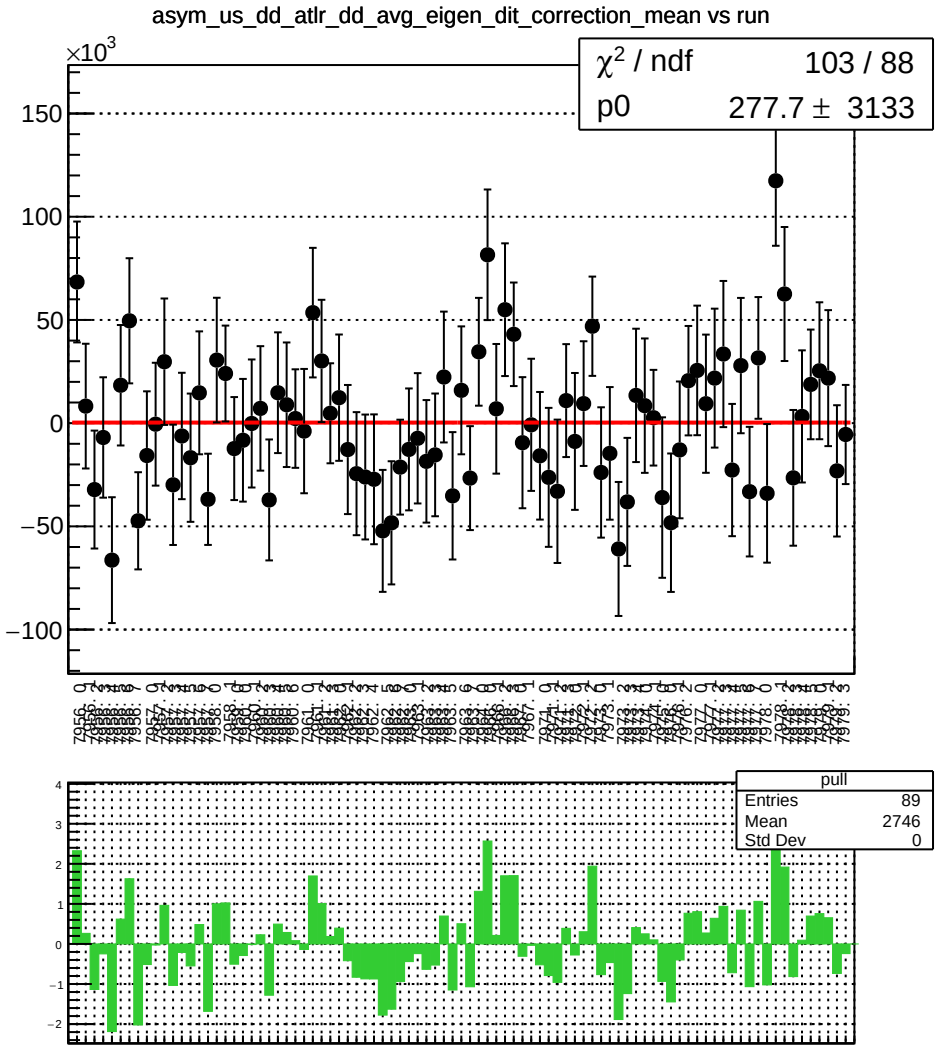

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 103 / 88
p0 277.6 ± 3133
150
100
50
0
−50
−100
pull
Entries 89
Mean 2744
Std Dev 0
4
3
2
1
0
−1
−2

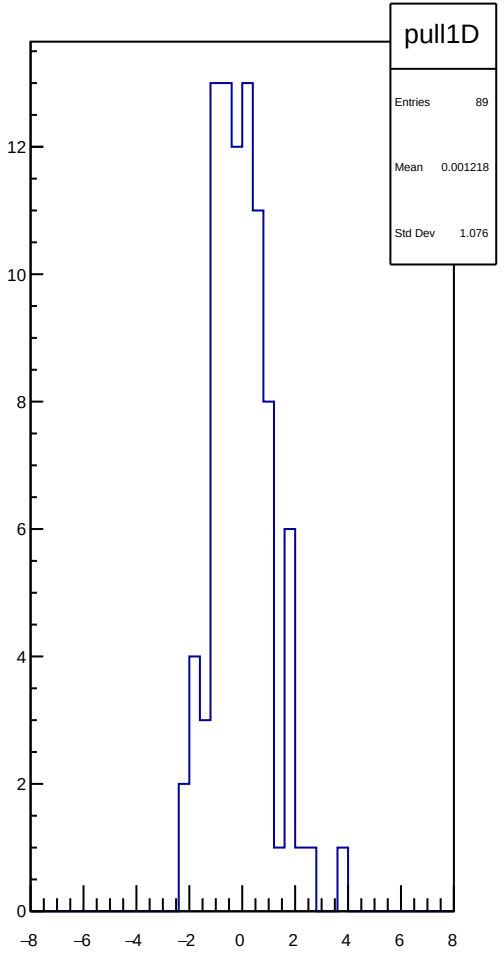

pull1D
Entries 89
Mean 0.001219
Std Dev 1.076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

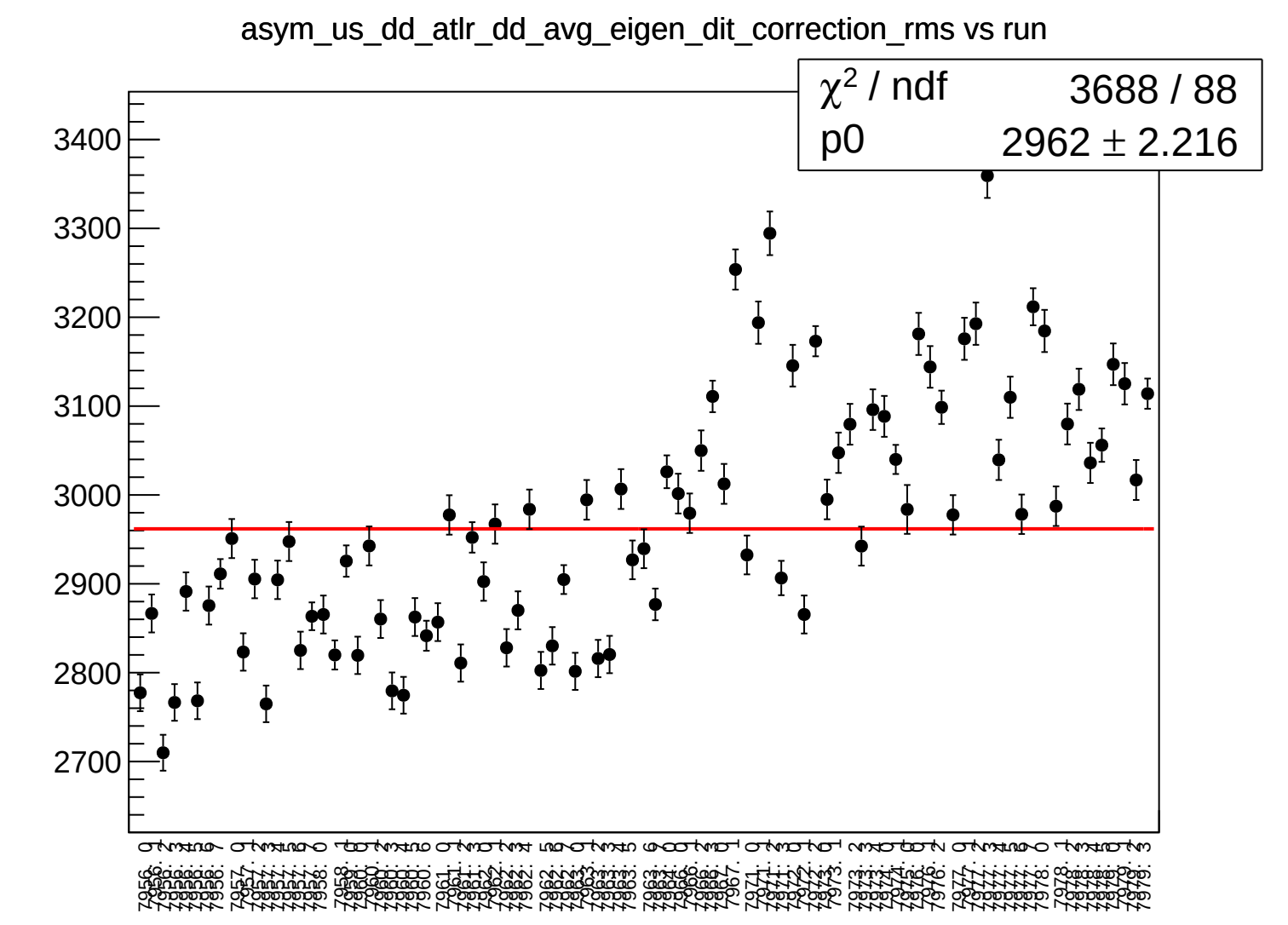

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3688 / 88
p0 2962 ± 2.216
3400
3300
3200
3100
3000
2900
2800
2700

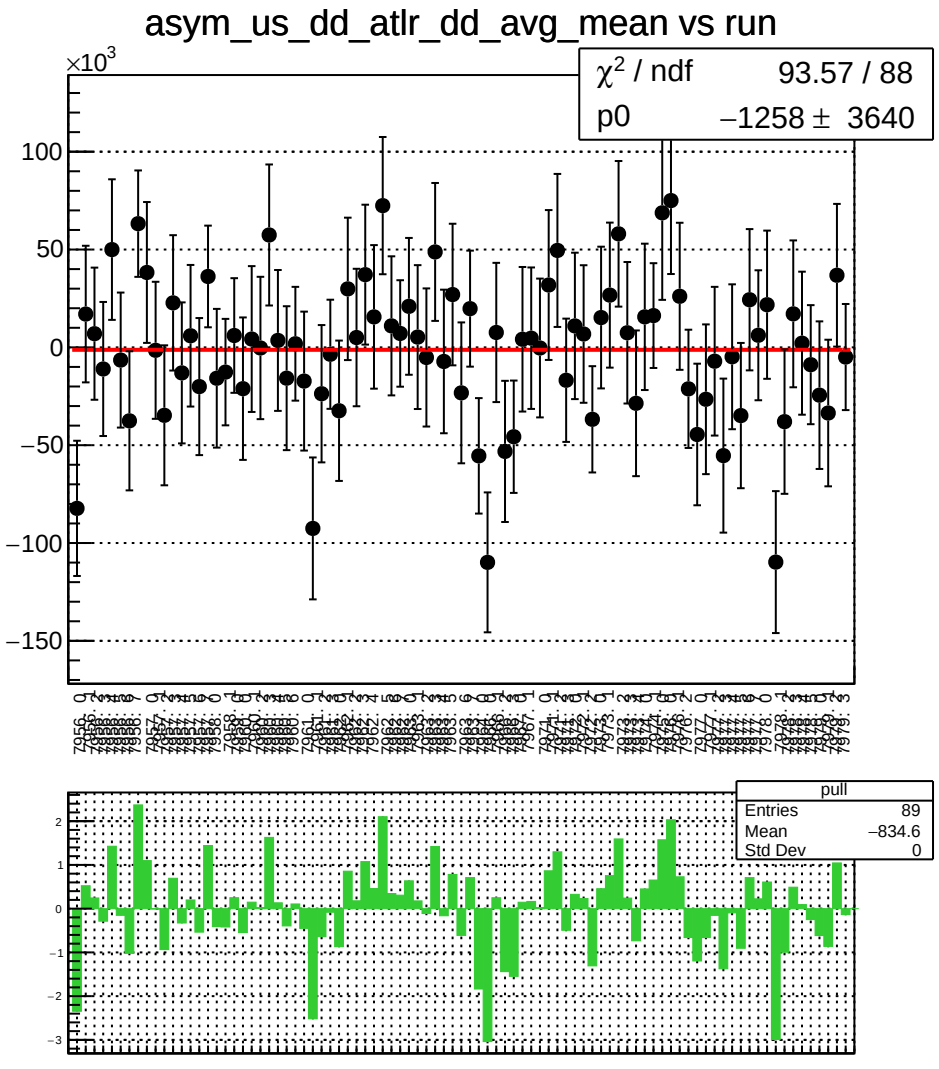

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 75.72 / 88
p0 −482 ± 1871
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −180.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.008435
Std Dev 0.9223
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

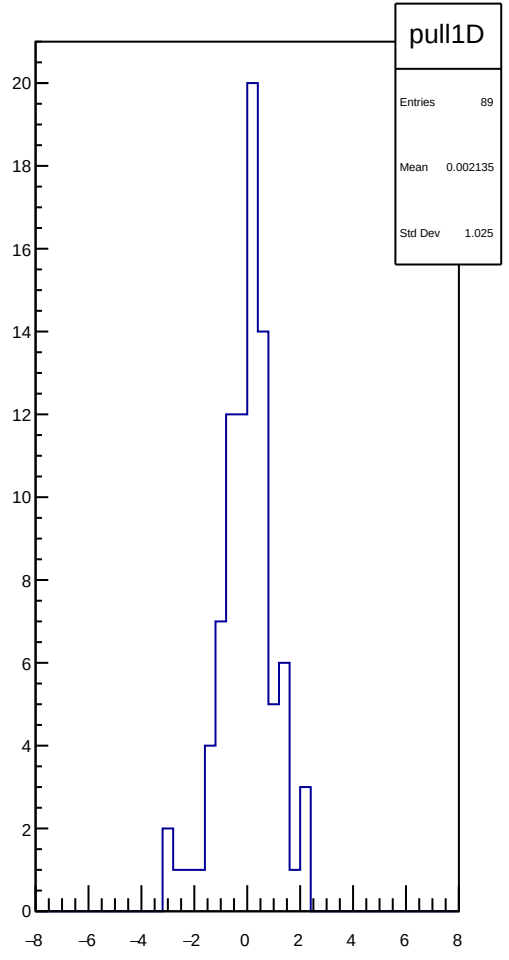

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 362.6 / 88
p0 1770 ± 1.323
1840
1820
1800
1780
1760
1740
1720
1700
1680

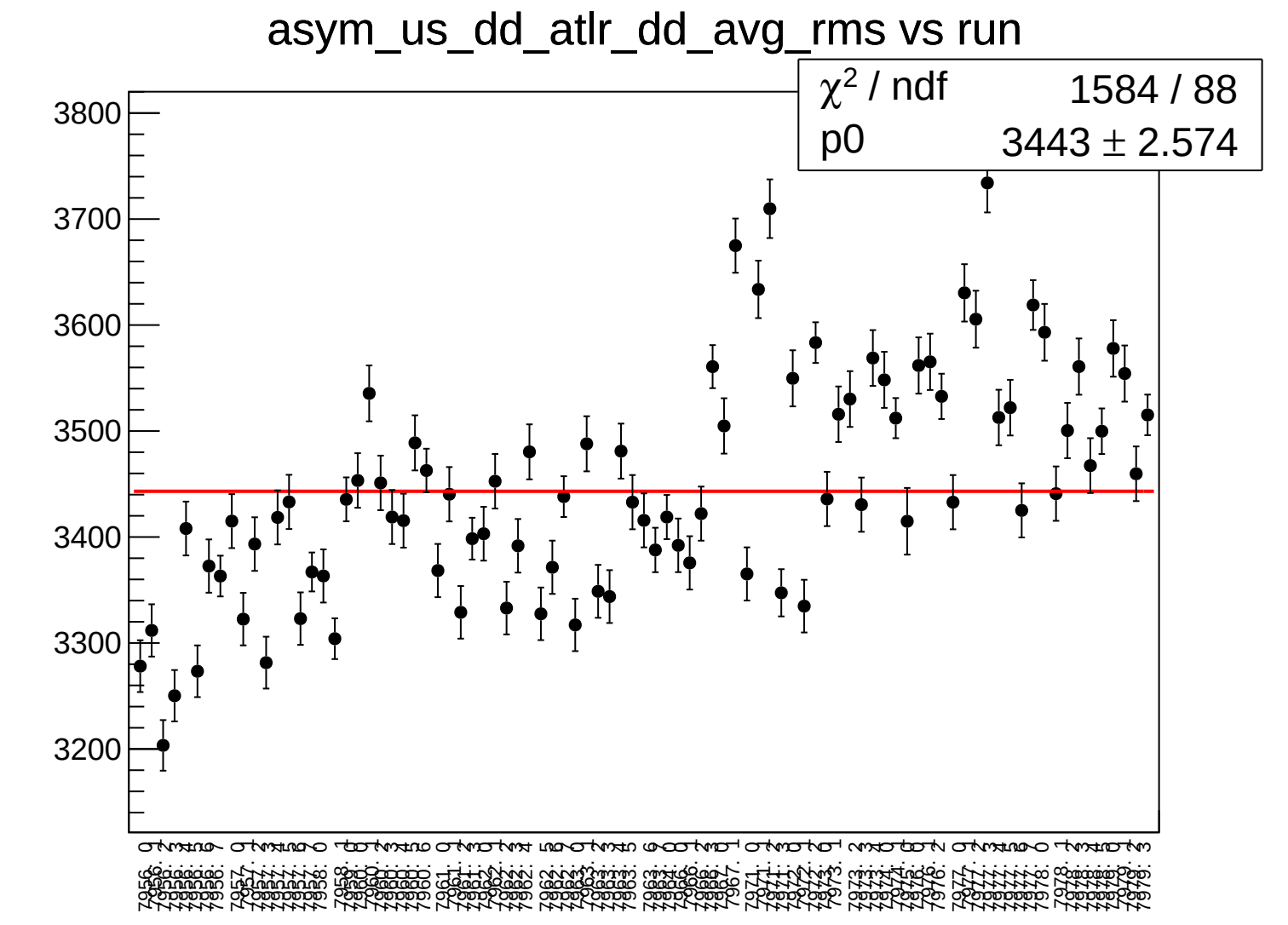

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 103 / 88
p0 277.7 ± 3133
150
100
50
0
−50
−100
pull
Entries 89
Mean 2746
Std Dev 0
4
3
2
1
0
−1
−2

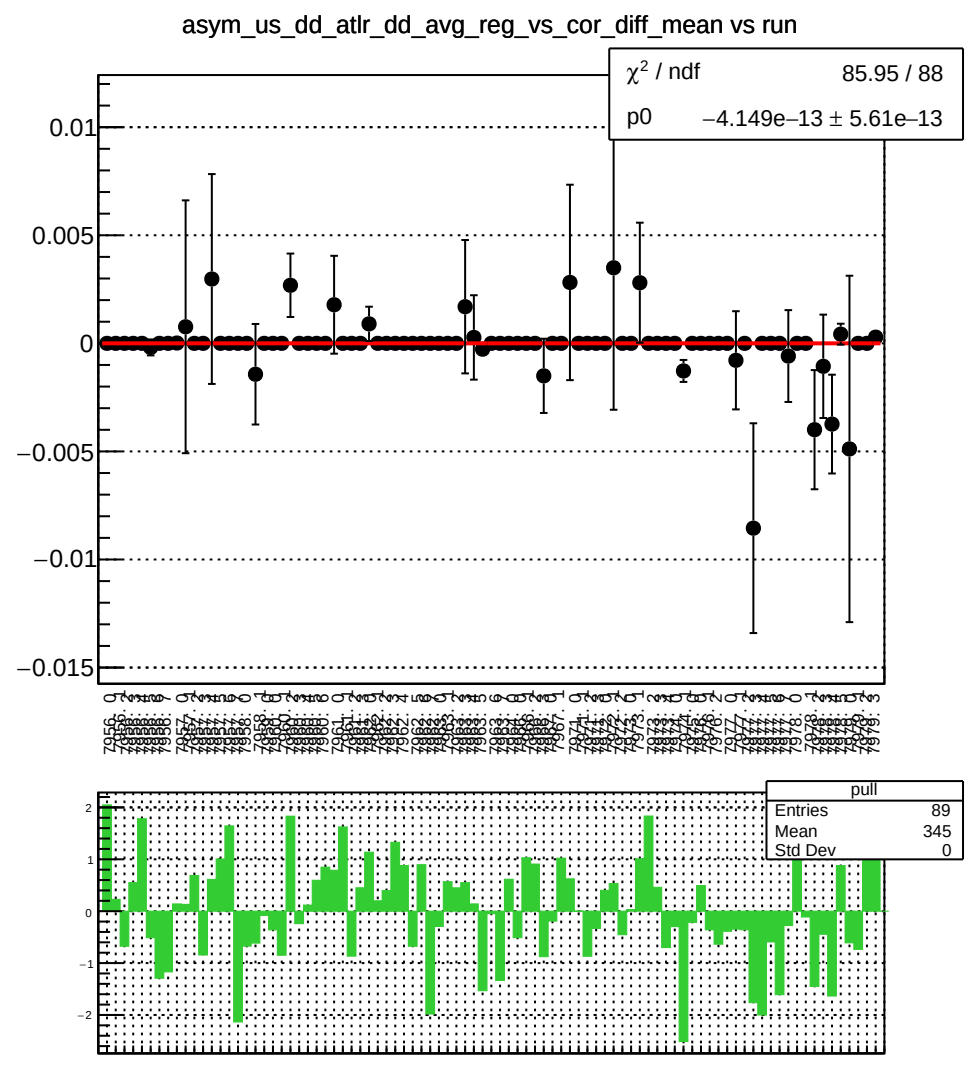

pull1D
Entries 89
Mean 0.001218
Std Dev 1.076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

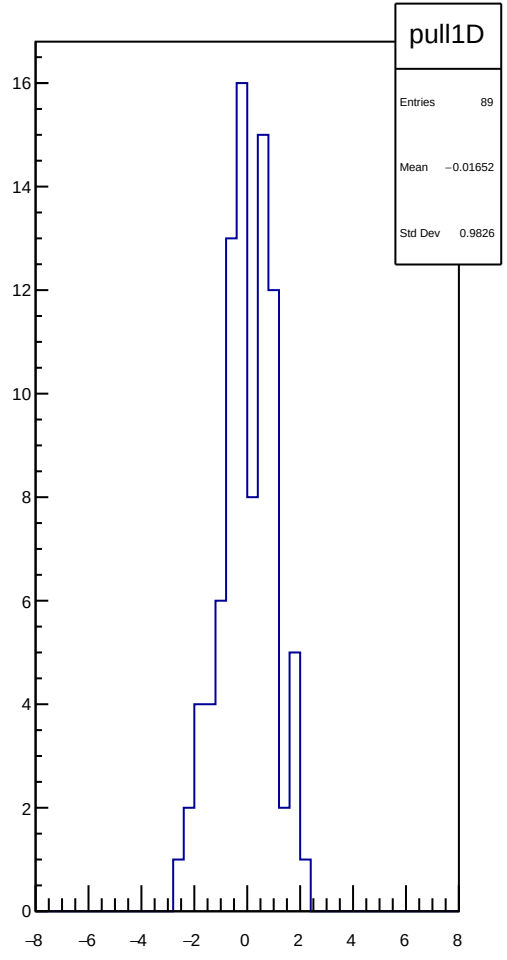

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3688 / 88
p0 2962 ± 2.216
3400
3300
3200
3100
3000
2900
2800
2700

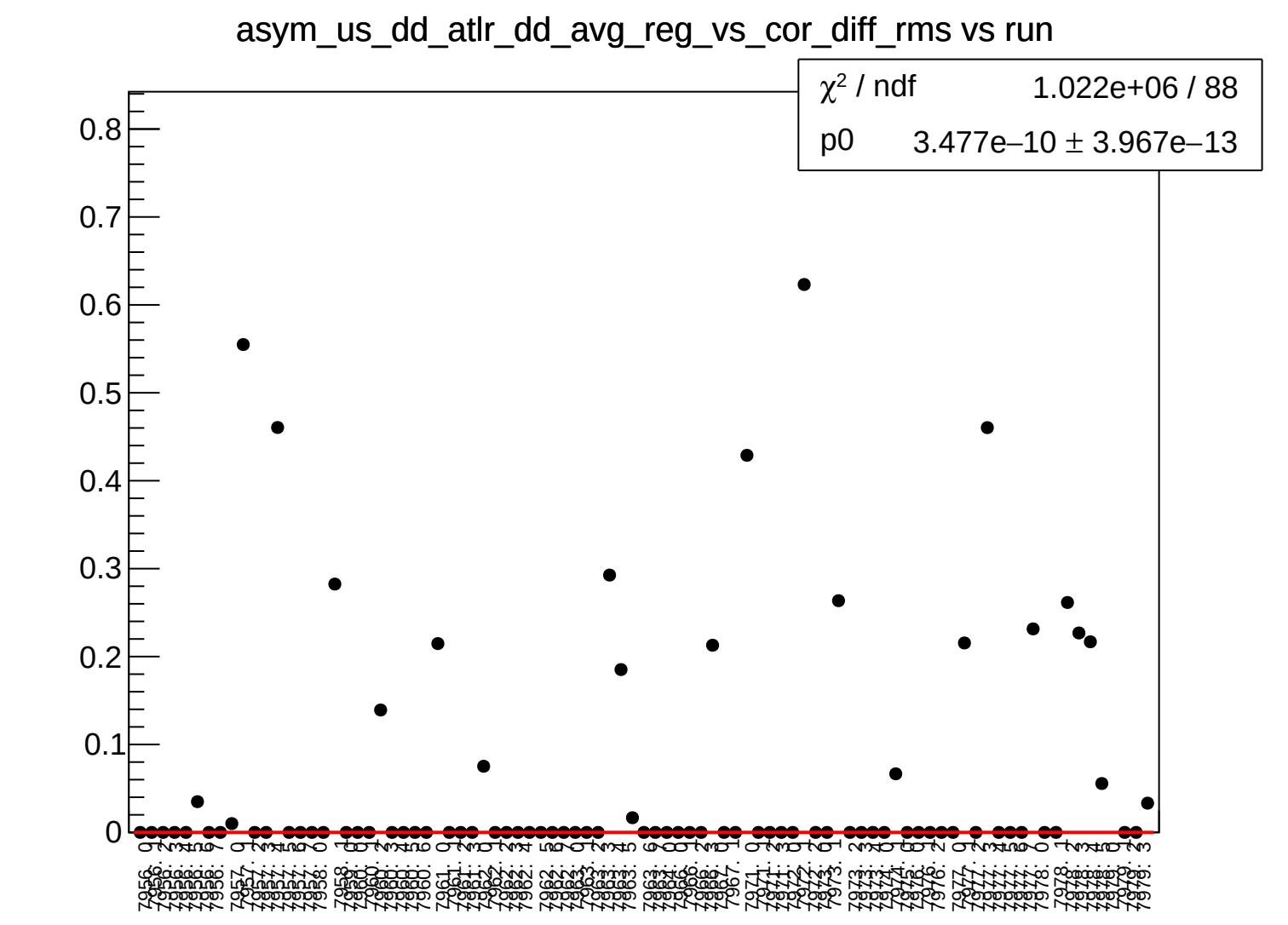

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 93.57 / 88
p0 −1258 ± 3640
100
50
0
−50
−100
−150
pull
Entries 89
Mean −834.6
Std Dev 0
2
1
0
−1
−2
−3

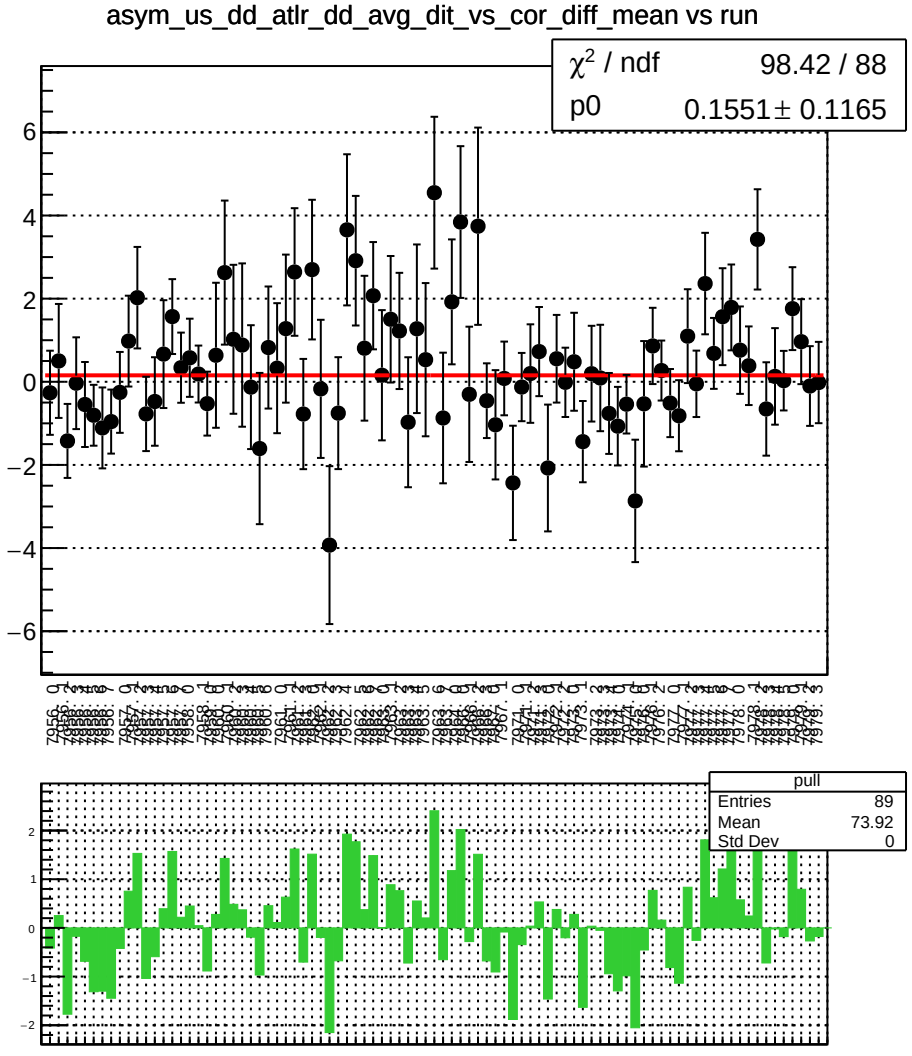

pull1D
Entries 89
Mean 0.002135
Std Dev 1.025
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

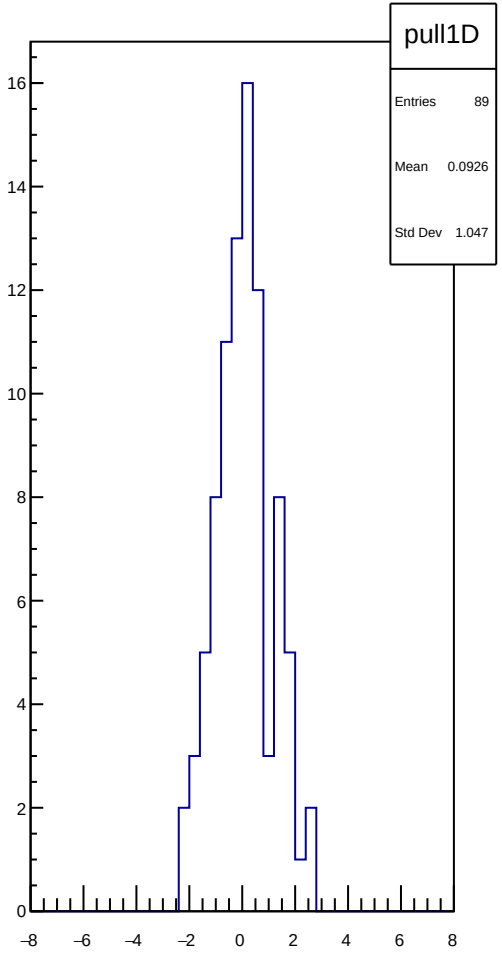

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1584 / 88
p0 3443 ± 2.574
3800
3700
3600
3500
3400
3300
3200

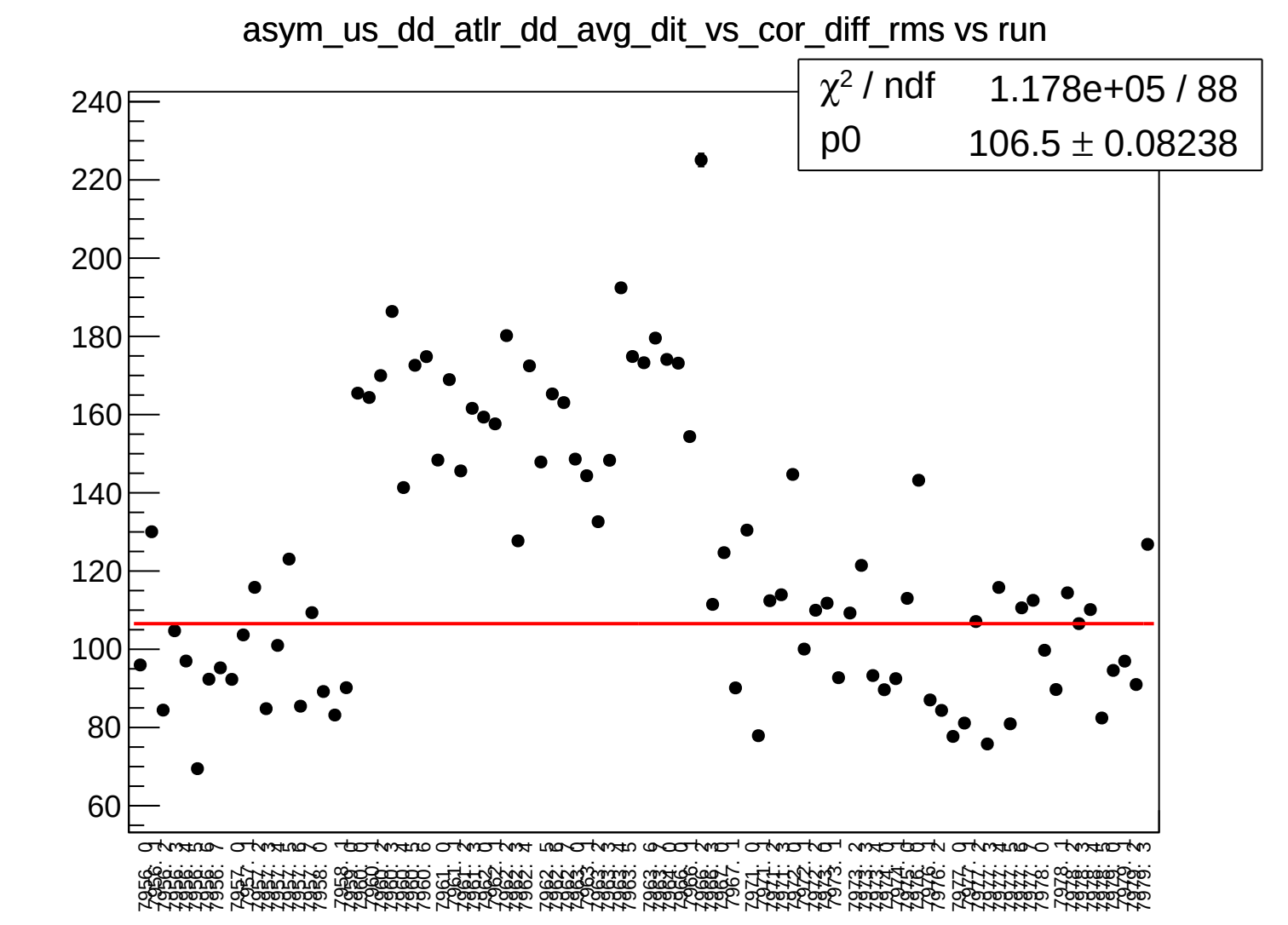

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.95 / 88
p0 −4.149e−13 ± 5.61e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 345
Std Dev 0
2
1
0
−1
−2

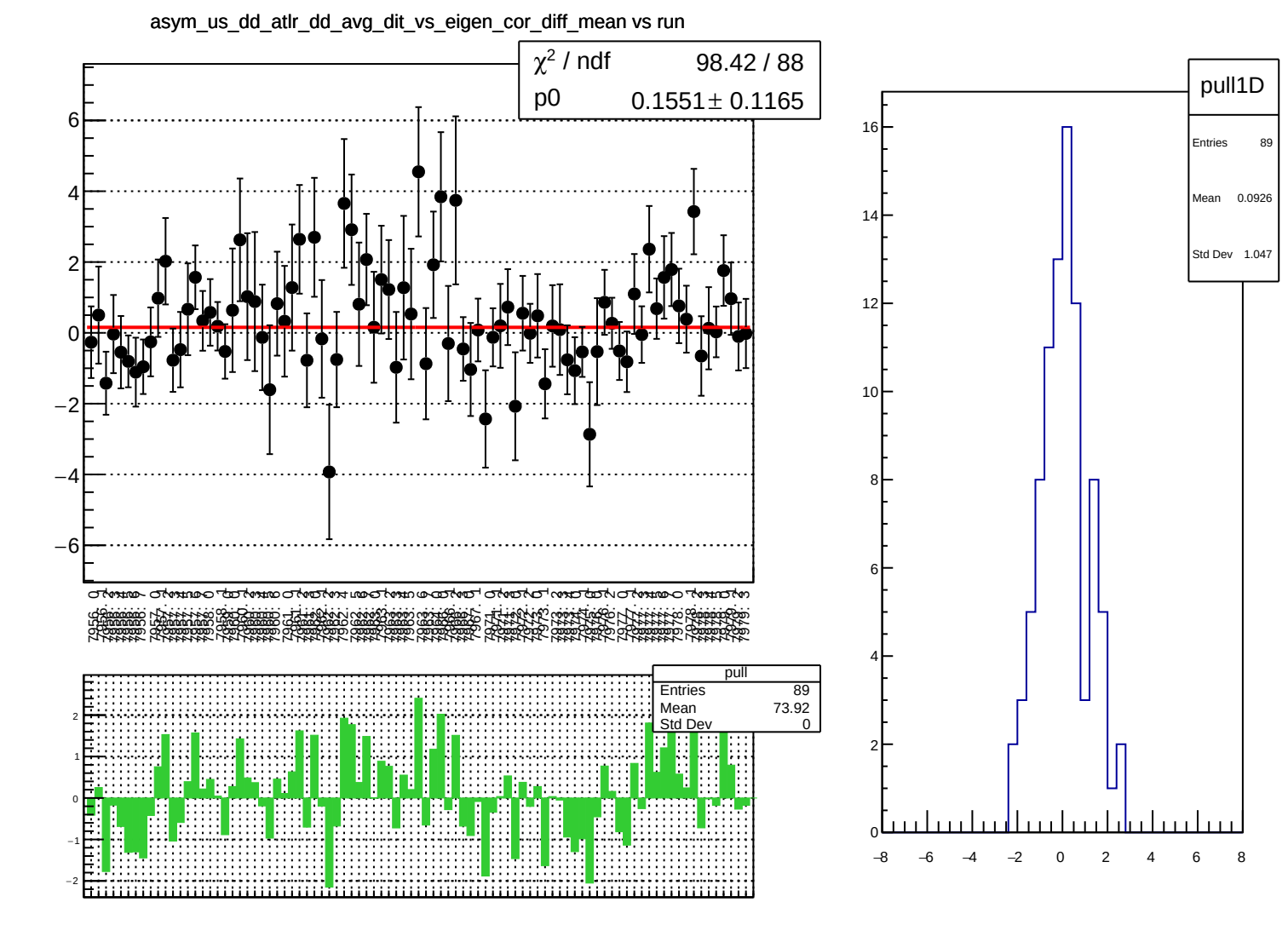

pull1D
Entries 89
Mean −0.01652
Std Dev 0.9826
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

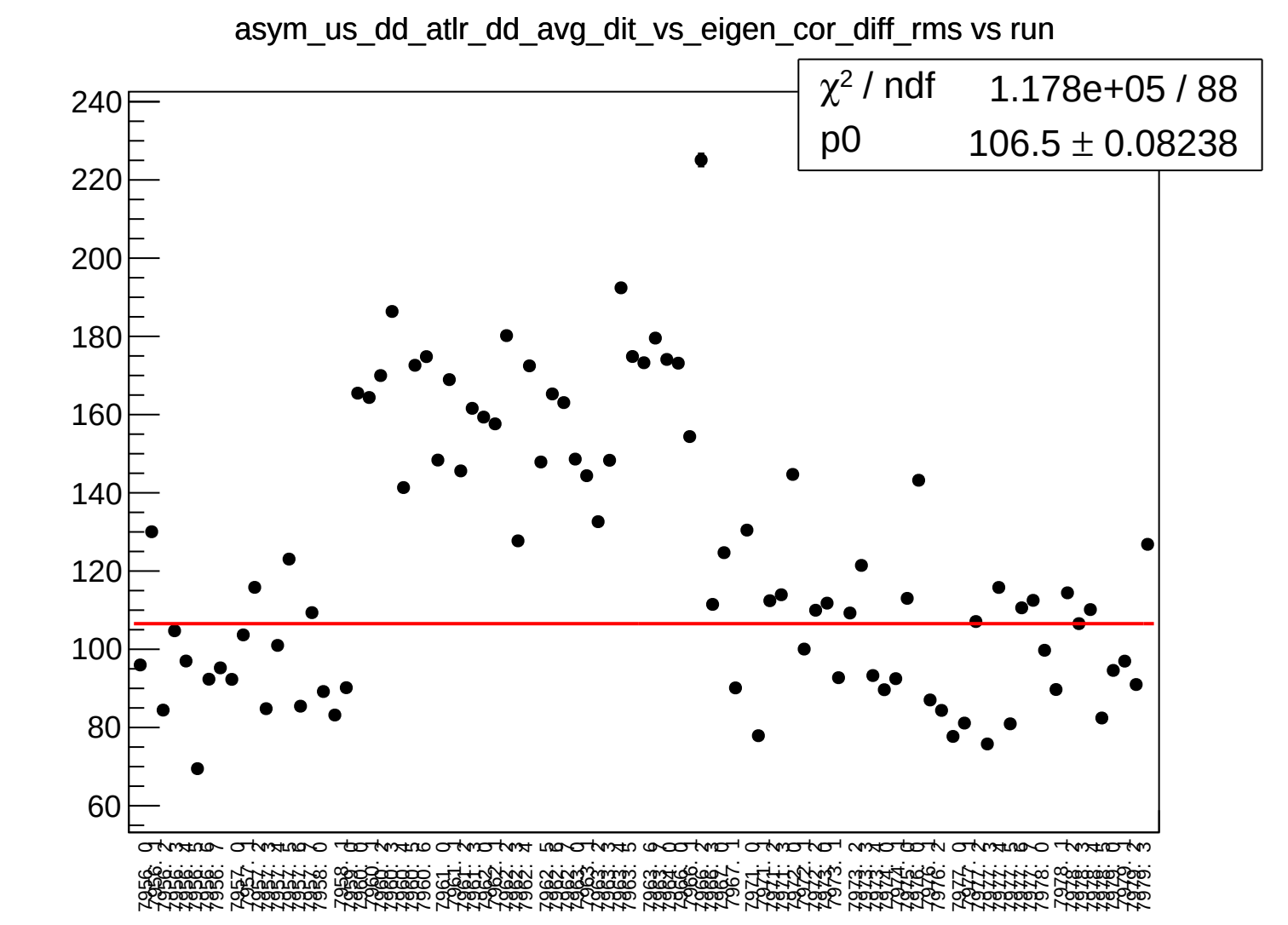

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 88
p0 3.477e−10 ± 3.967e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

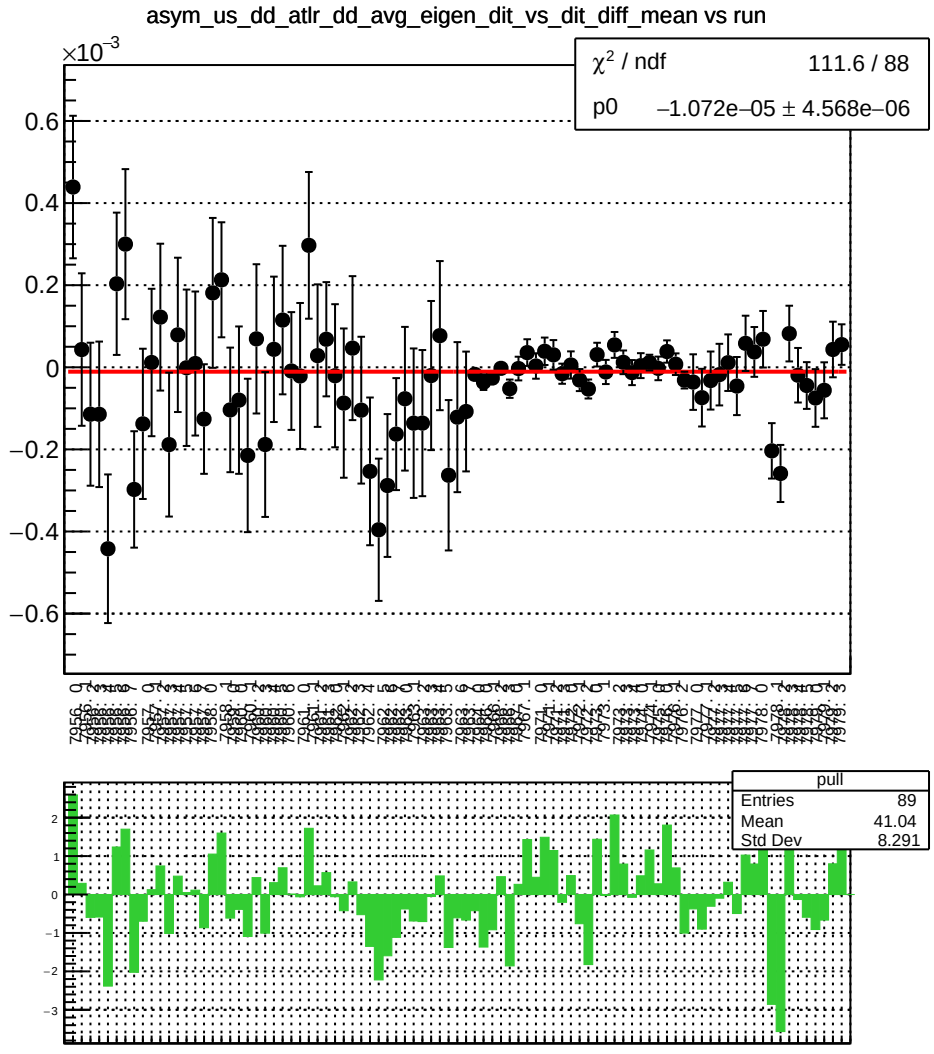

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.42 / 88
p0 0.1551 ± 0.1165
pull
Entries 89
Mean 73.92
Std Dev 0

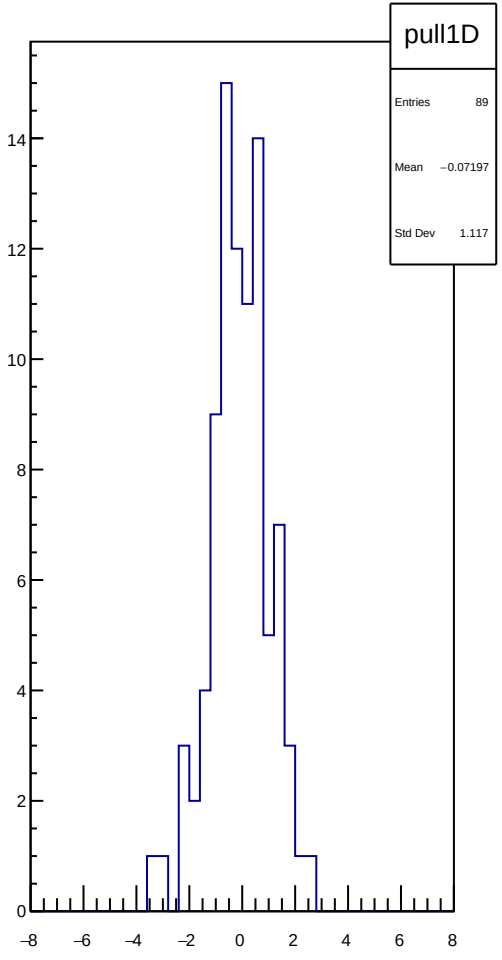

pull1D
Entries 89
Mean 0.0926
Std Dev 1.047

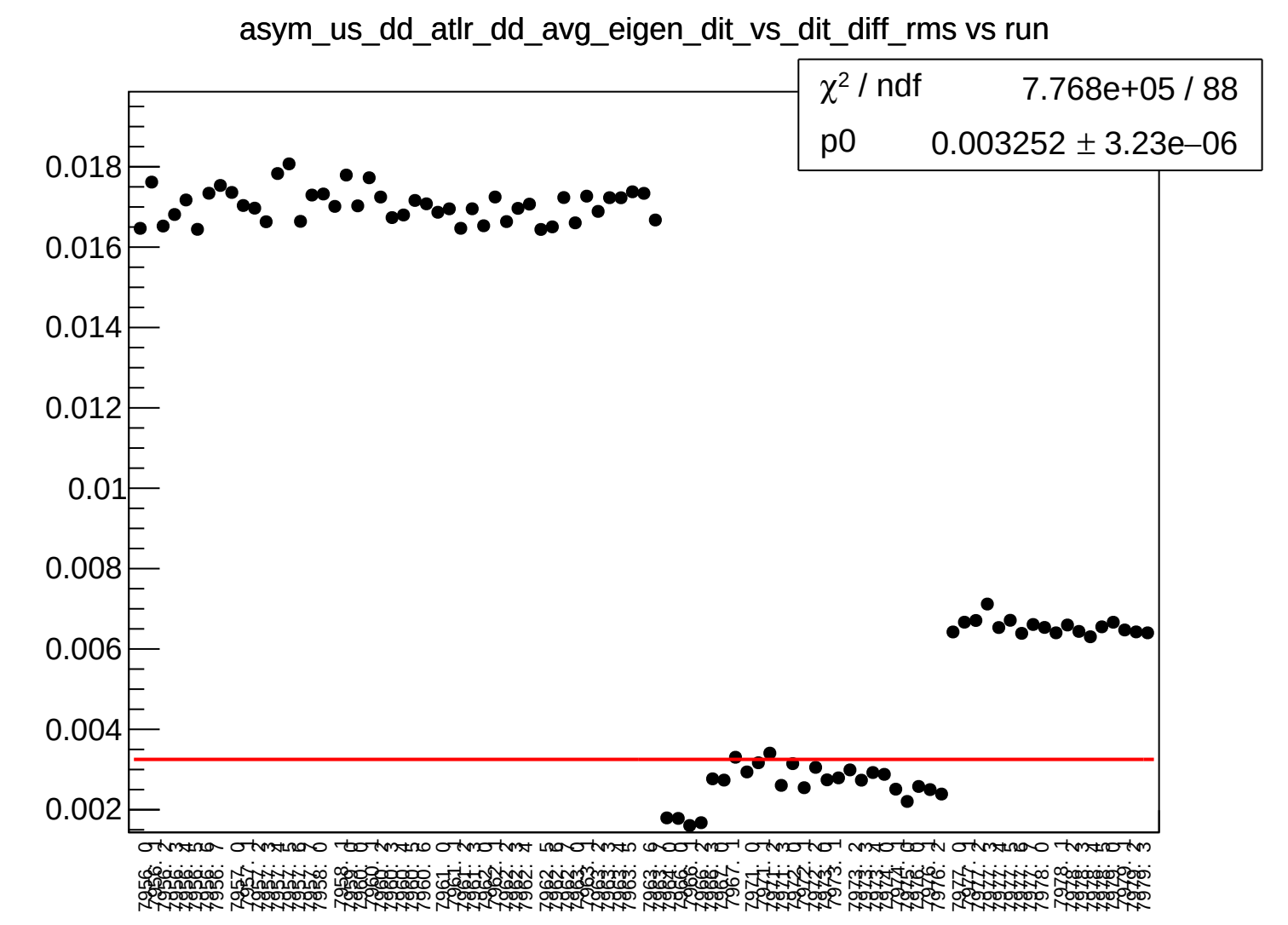

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 88
p0 106.5 ± 0.08238
240
220
200
180
160
140
120
100
80
60

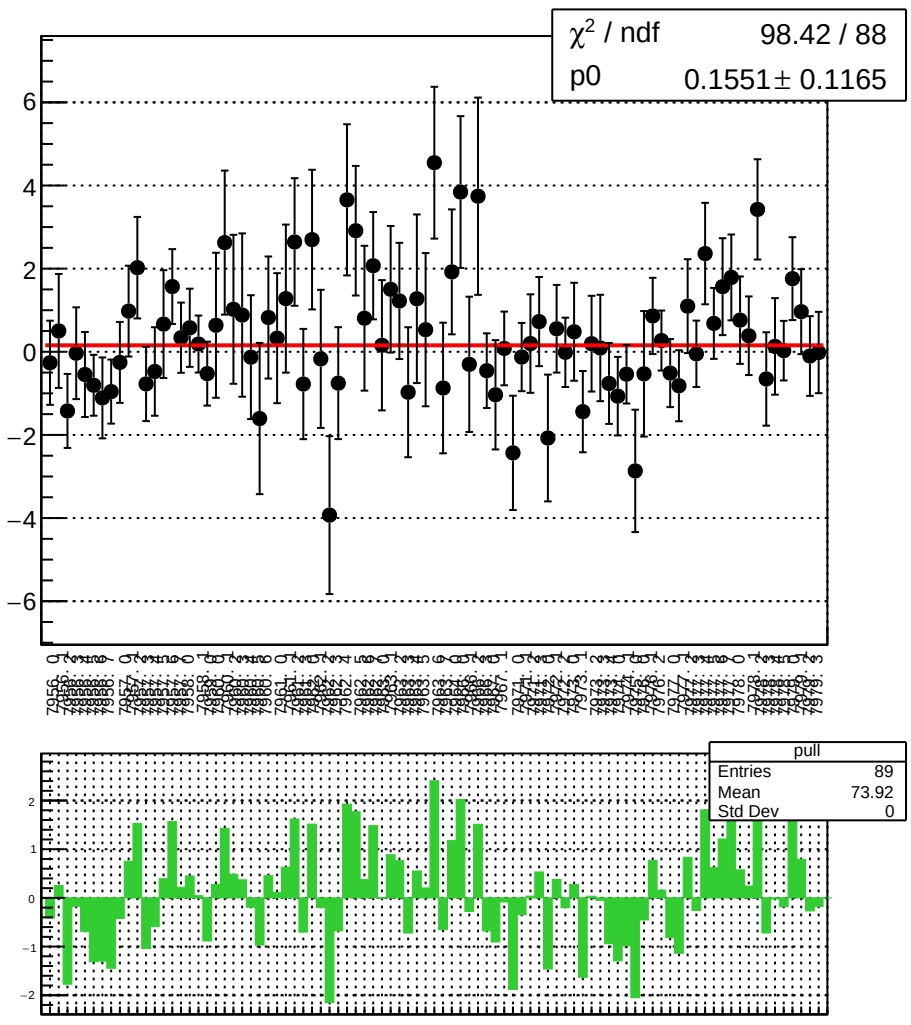

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.42 / 88
p0 0.1551 ± 0.1165
pull
Entries 89
Mean 73.92
Std Dev 0
pull1D
Entries 89
Mean 0.0926
Std Dev 1.047

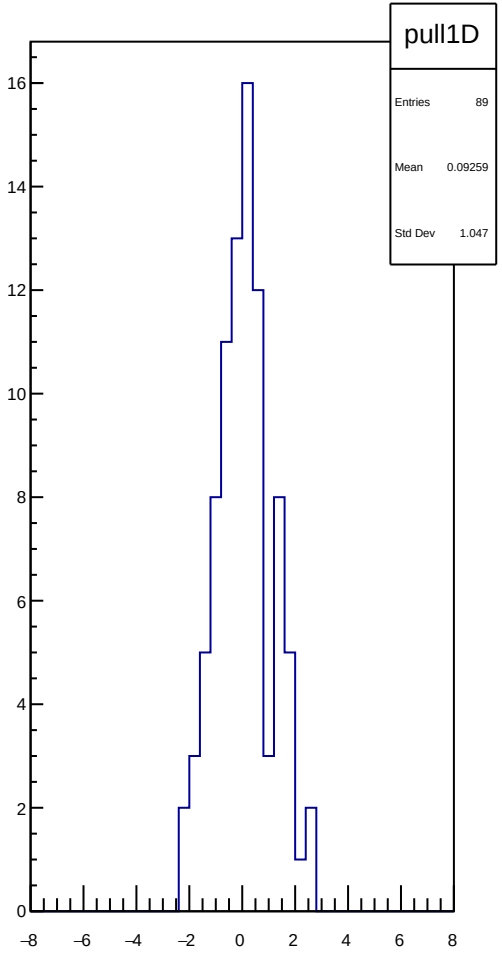

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 88
p0 106.5 ± 0.08238
240
220
200
180
160
140
120
100
80
60

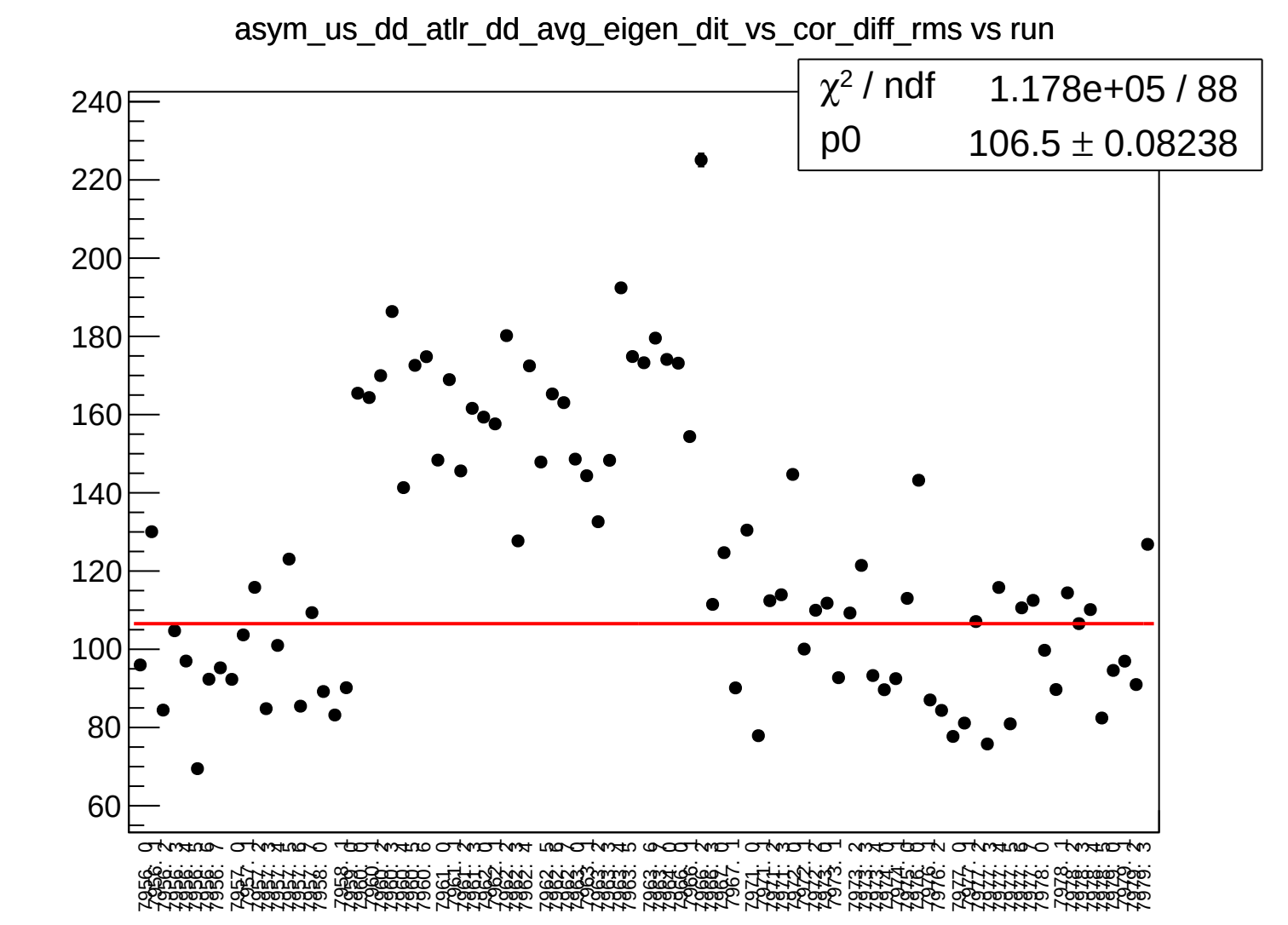

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.6 / 88
p0 −1.072e−05 ± 4.568e−06
pull
Entries 89
Mean 41.04
Std Dev 8.291

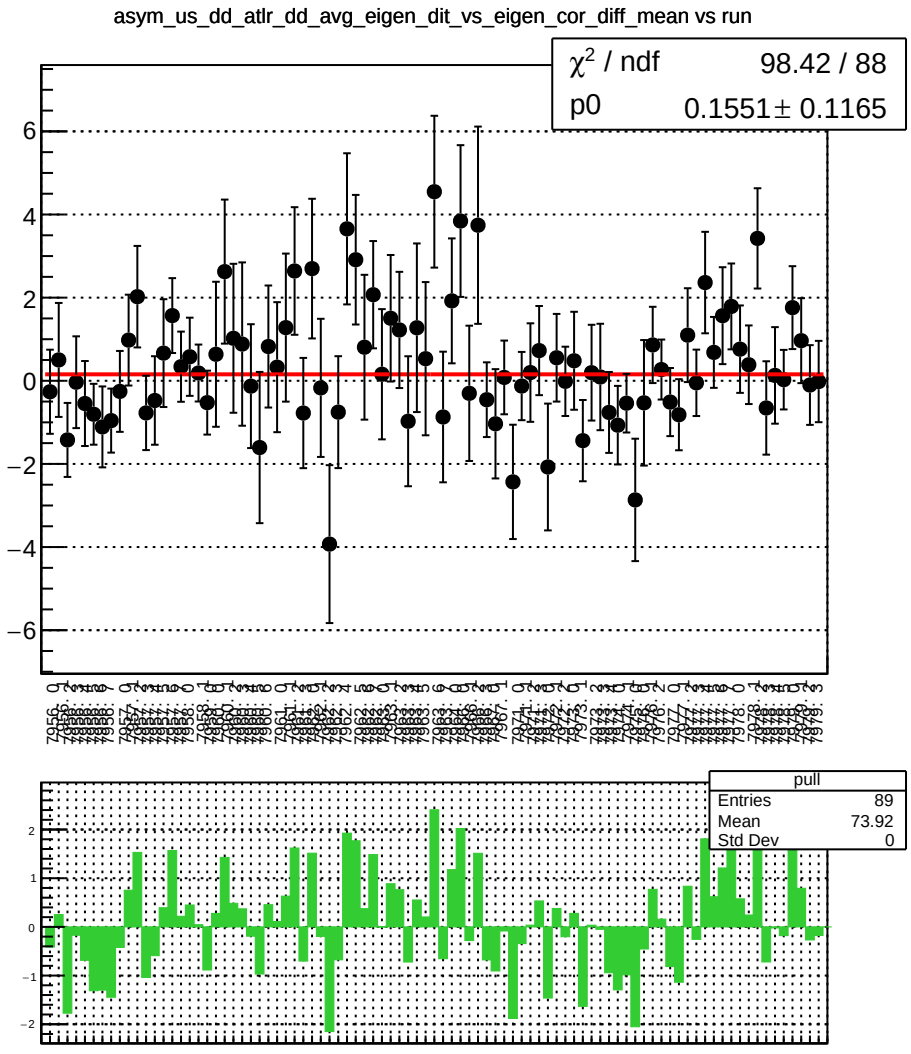

pull1D
Entries 89
Mean −0.07197
Std Dev 1.117

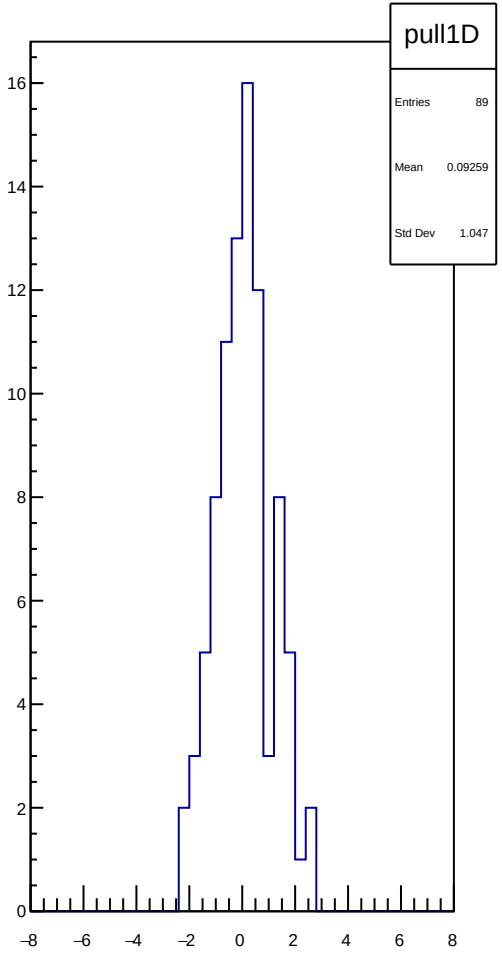

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.768e+05 / 88
p0 0.003252 ± 3.23e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

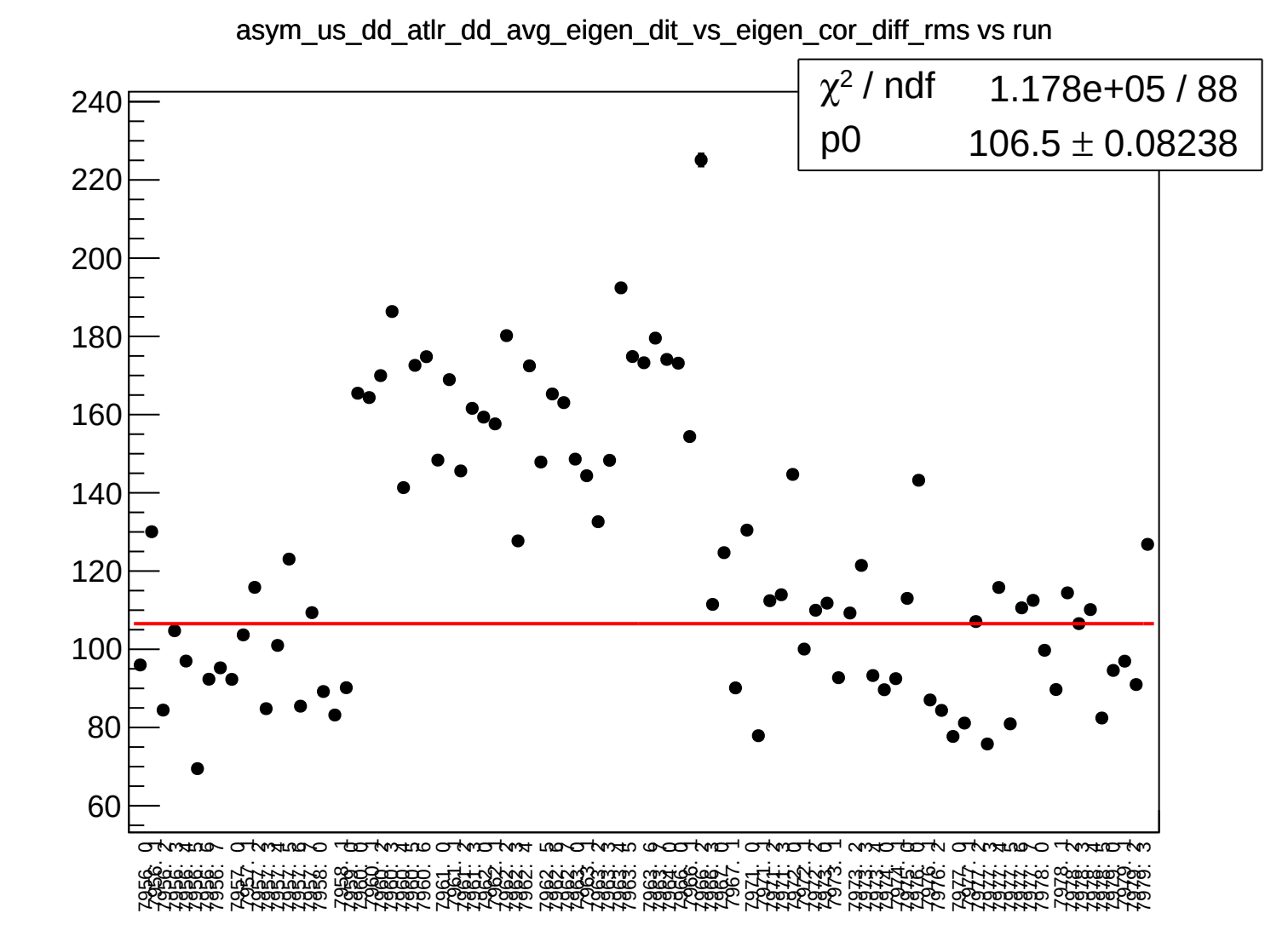

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.42 / 88
p0 0.1551 ± 0.1165
pull
Entries 89
Mean 73.92
Std Dev 0

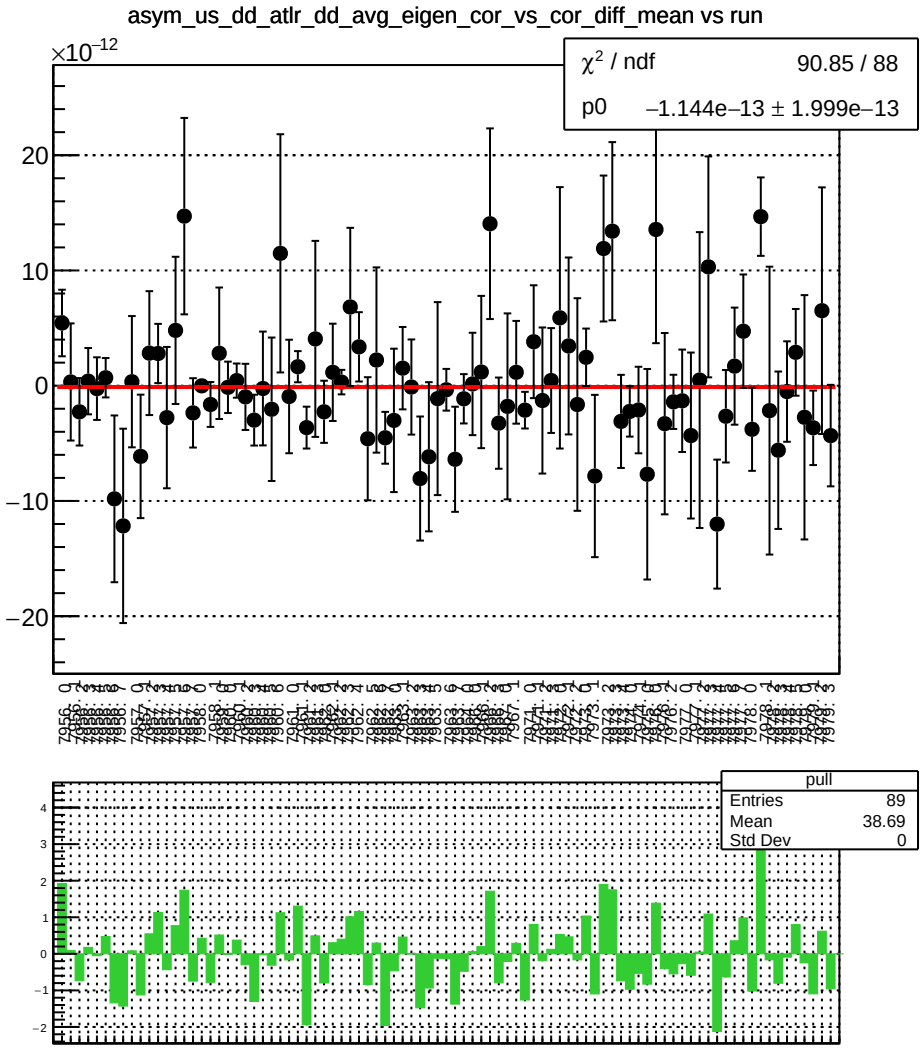

pull1D
Entries 89
Mean 0.09259
Std Dev 1.047

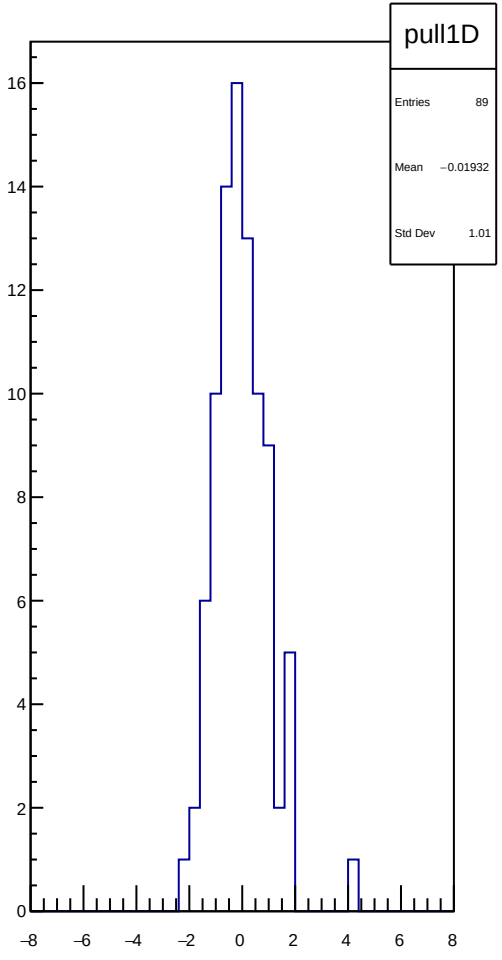

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 88
p0 106.5 ± 0.08238
240
220
200
180
160
140
120
100
80
60

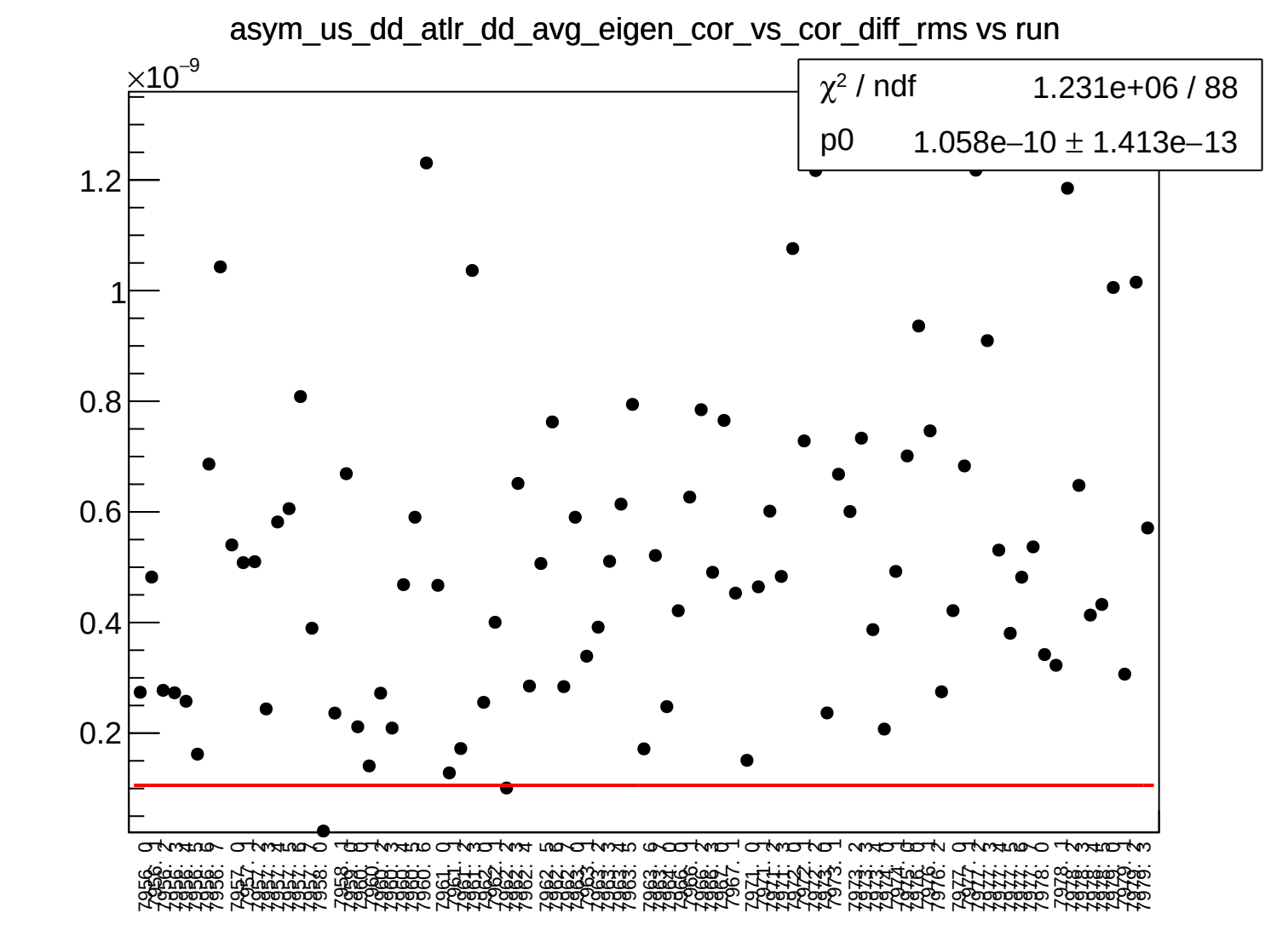

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.42 / 88
p0 0.1551 ± 0.1165
pull
Entries 89
Mean 73.92
Std Dev 0

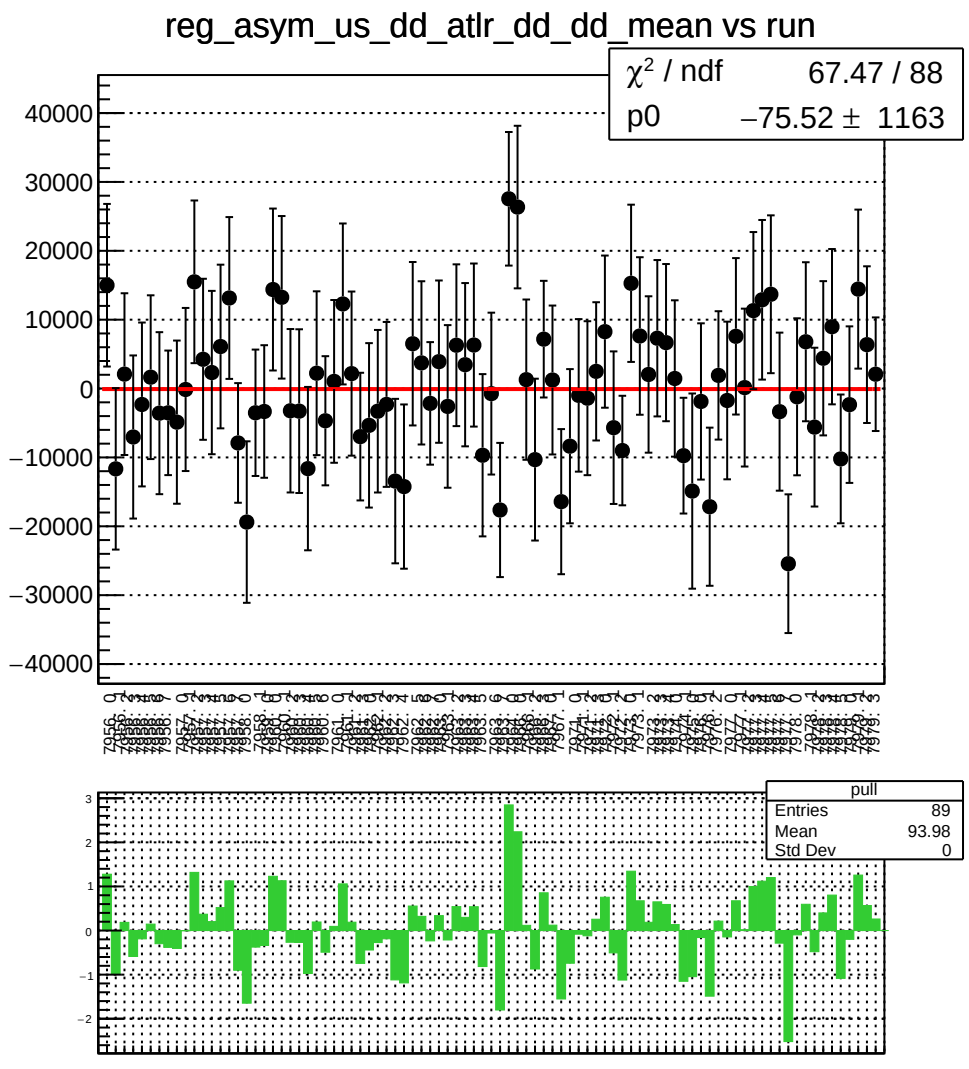

pull1D
Entries 89
Mean 0.09259
Std Dev 1.047

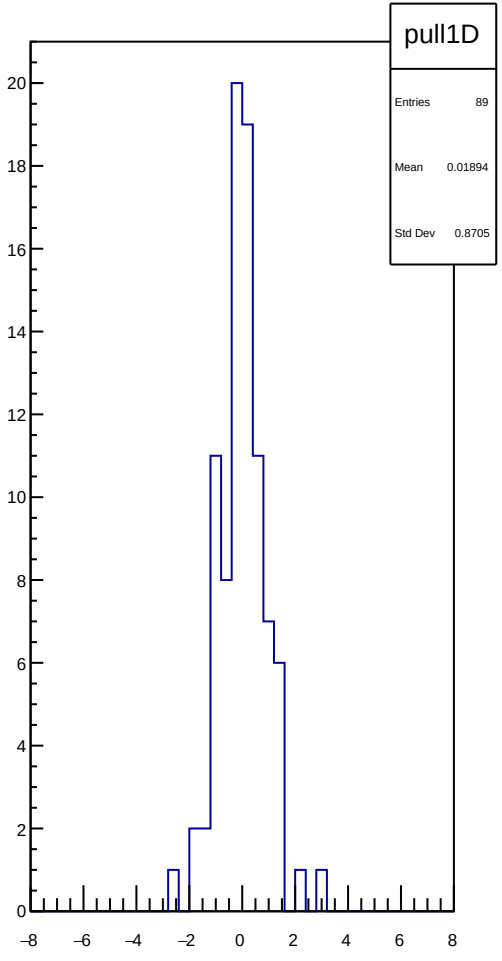

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 88
p0 106.5 ± 0.08238
240
220
200
180
160
140
120
100
80
60

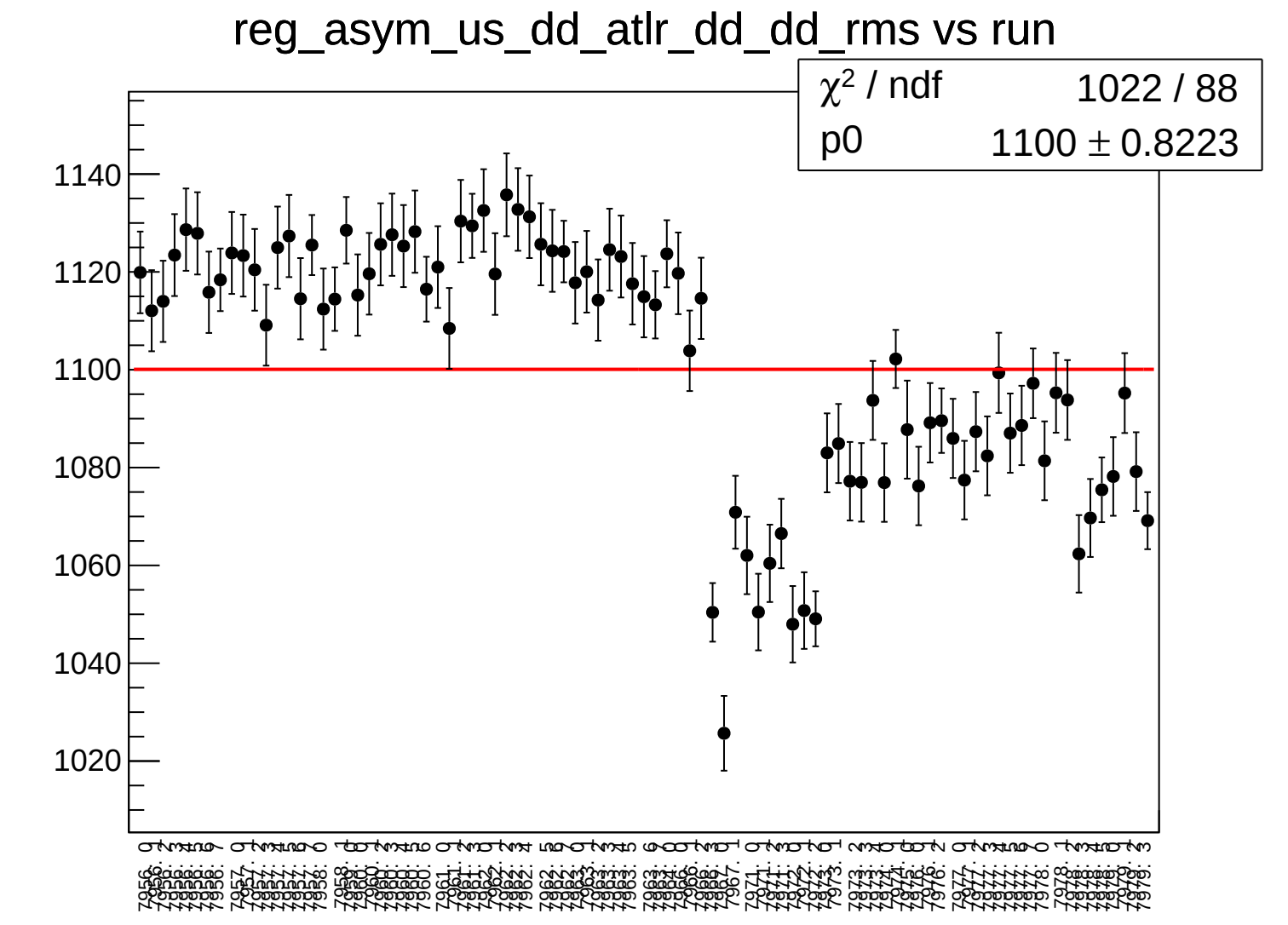

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.85 / 88
p0 −1.144e−13 ± 1.999e−13
pull
Entries 89
Mean 38.69
Std Dev 0

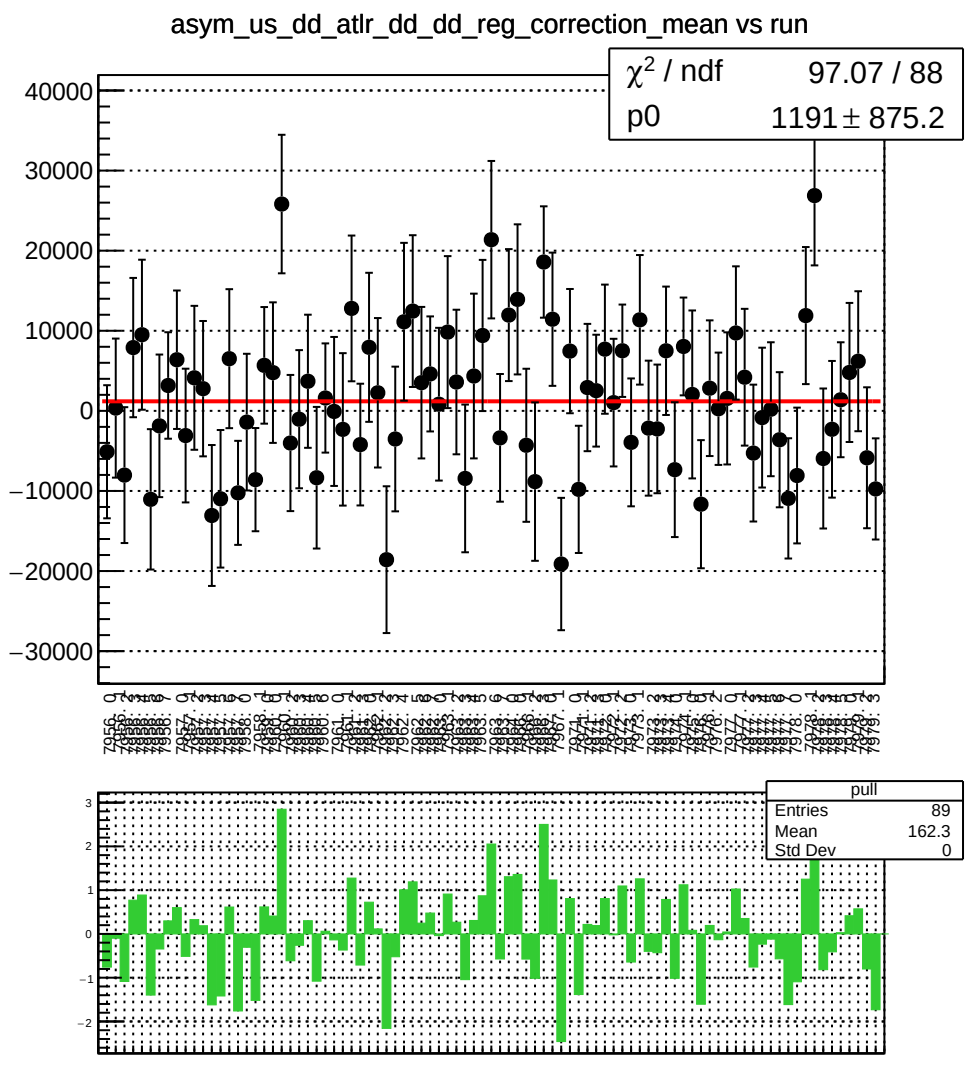

pull1D
Entries 89
Mean −0.01932
Std Dev 1.01

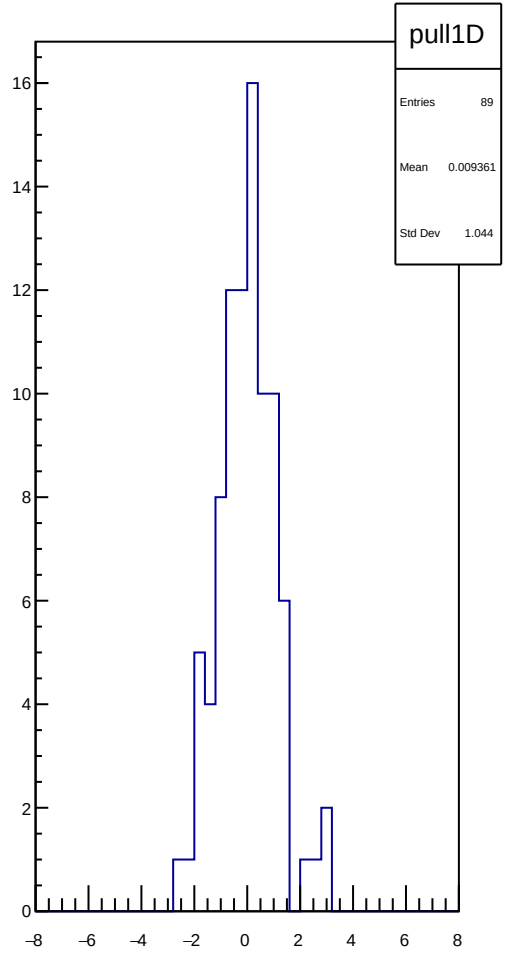

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.231e+06 / 88
p0 1.058e−10 ± 1.413e−13
1.2
1
0.8
0.6
0.4
0.2

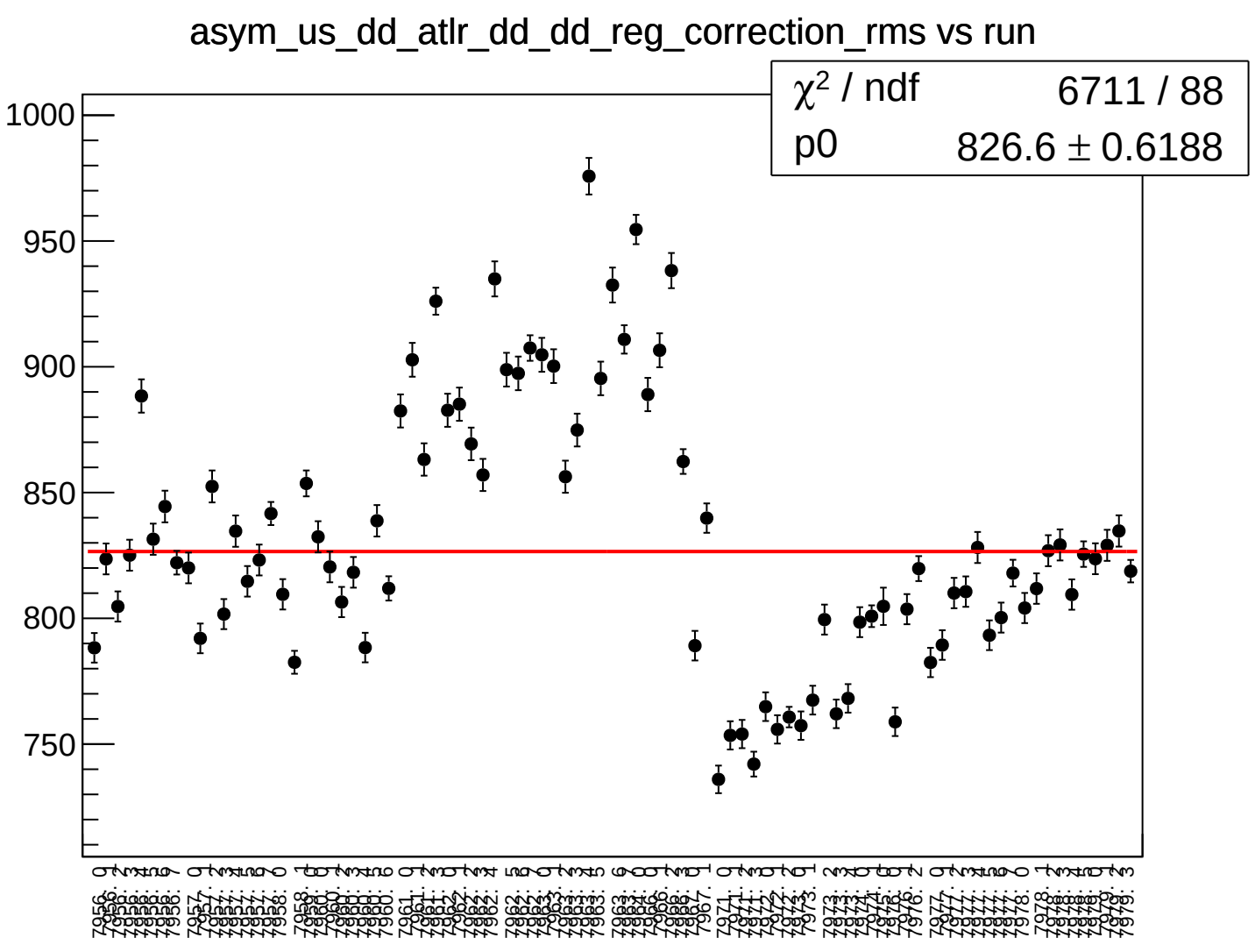

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 67.47 / 88
p0 −75.52 ± 1163
pull
Entries 89
Mean 93.98
Std Dev 0

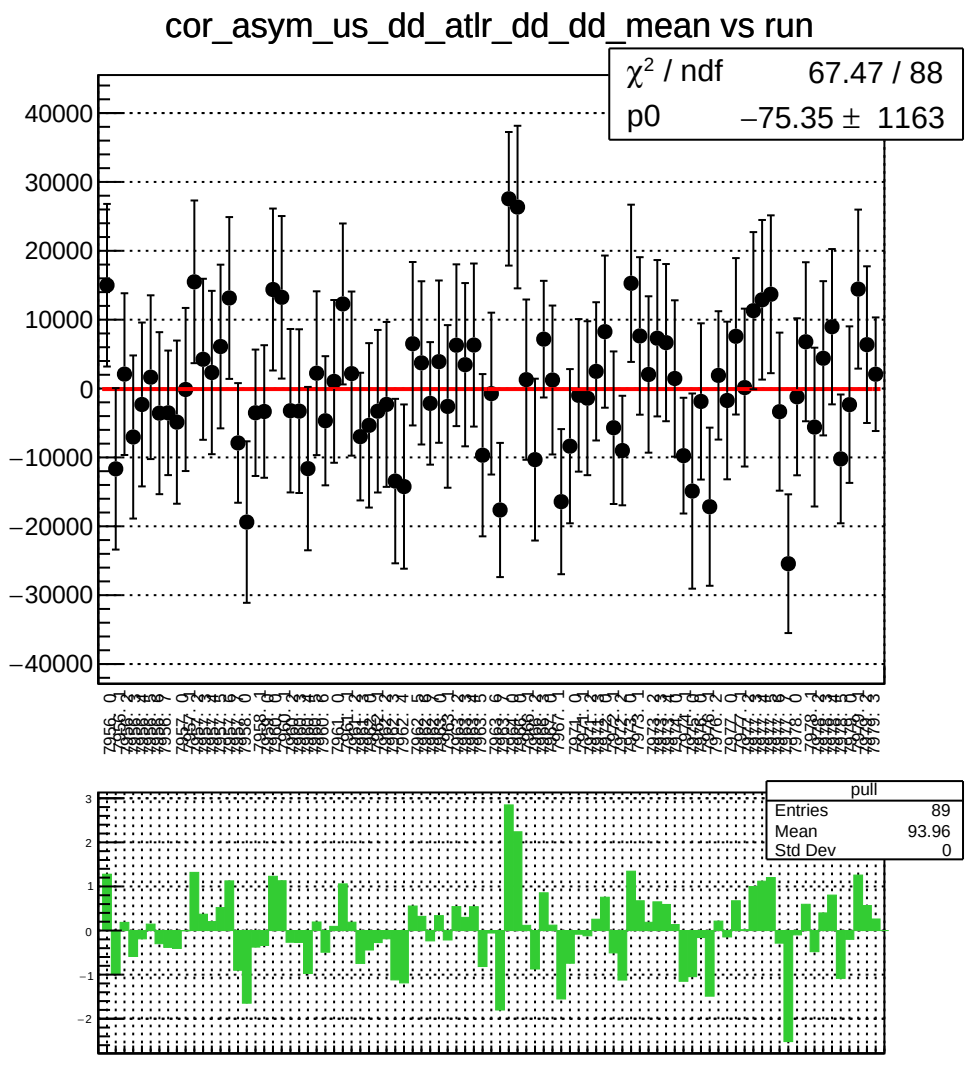

pull1D
Entries 89
Mean 0.01894
Std Dev 0.8705

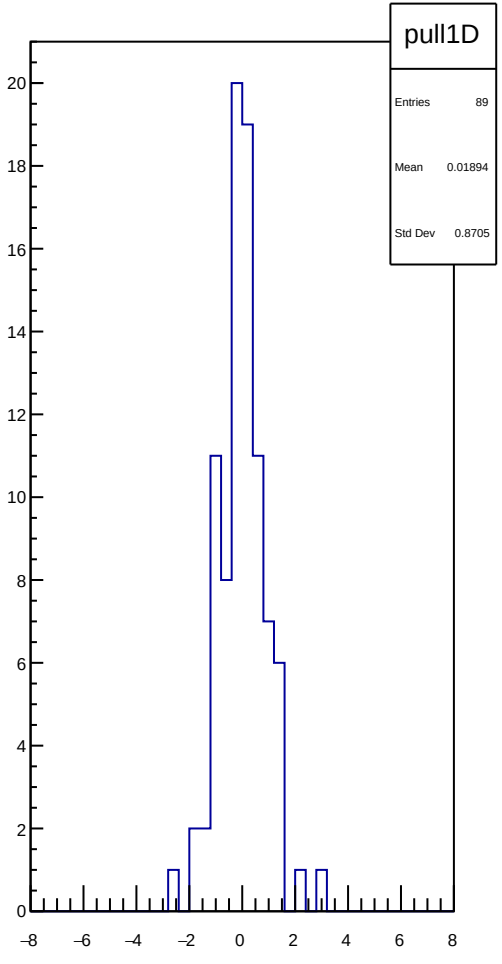

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1022 / 88
p0 1100 ± 0.8223
1140
1120
1100
1080
1060
1040
1020

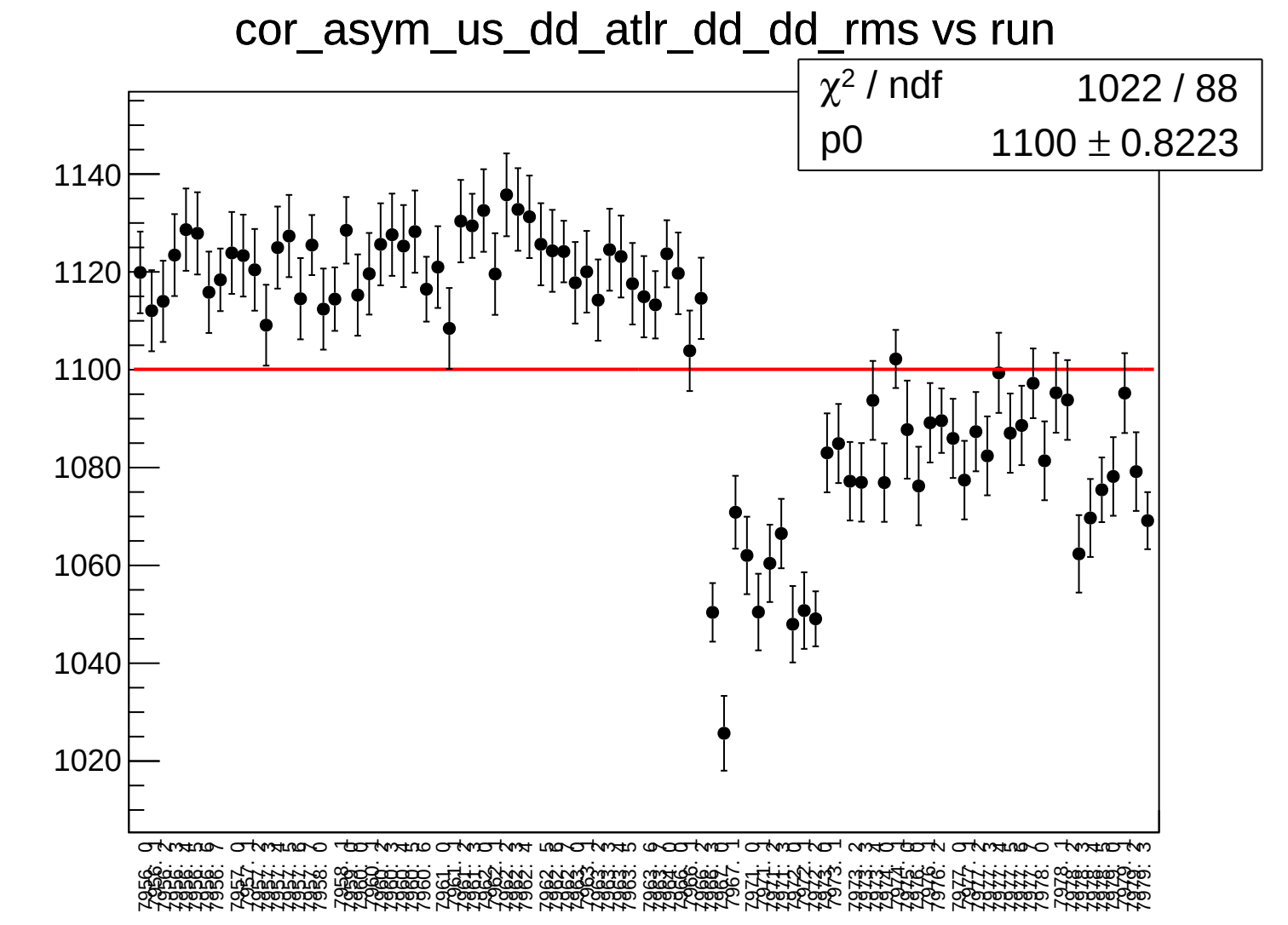

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 97.07 / 88
p0 1191 ± 875.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 162.3
Std Dev 0
3
2
1
0
−1
−2

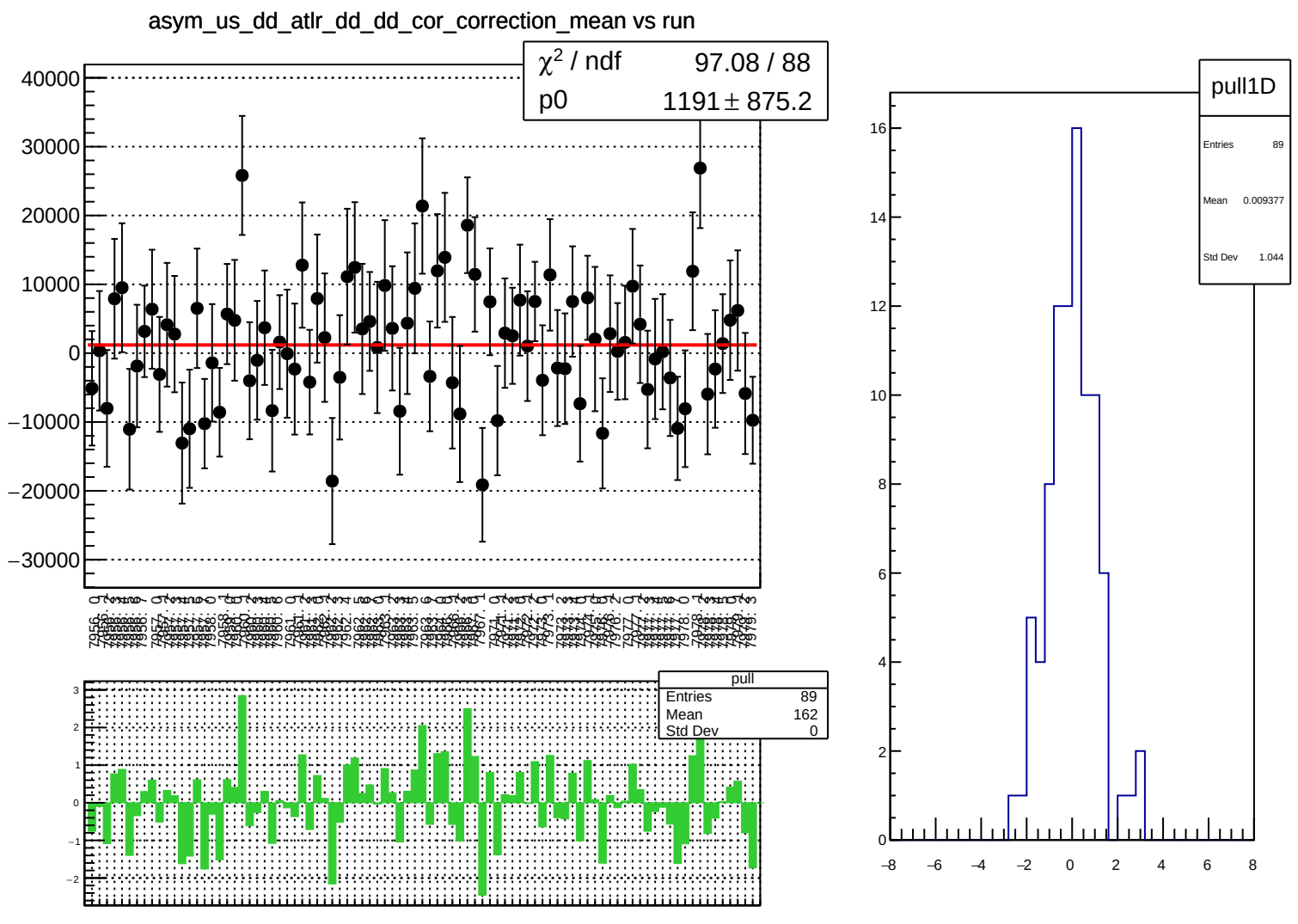

pull1D
Entries 89
Mean 0.009361
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

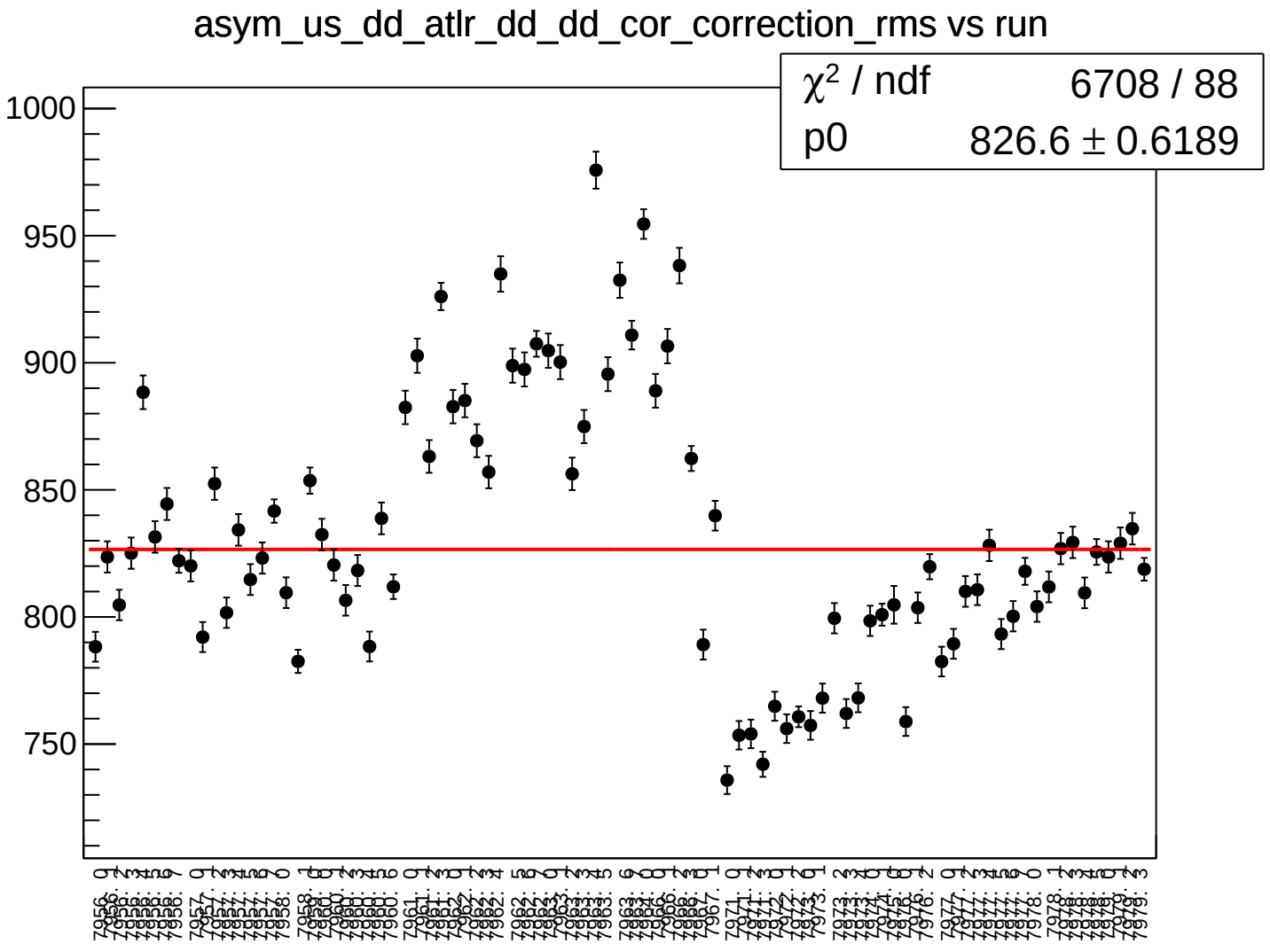

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 6711 / 88
p0 826.6 ± 0.6188
1000
950
900
850
800
750

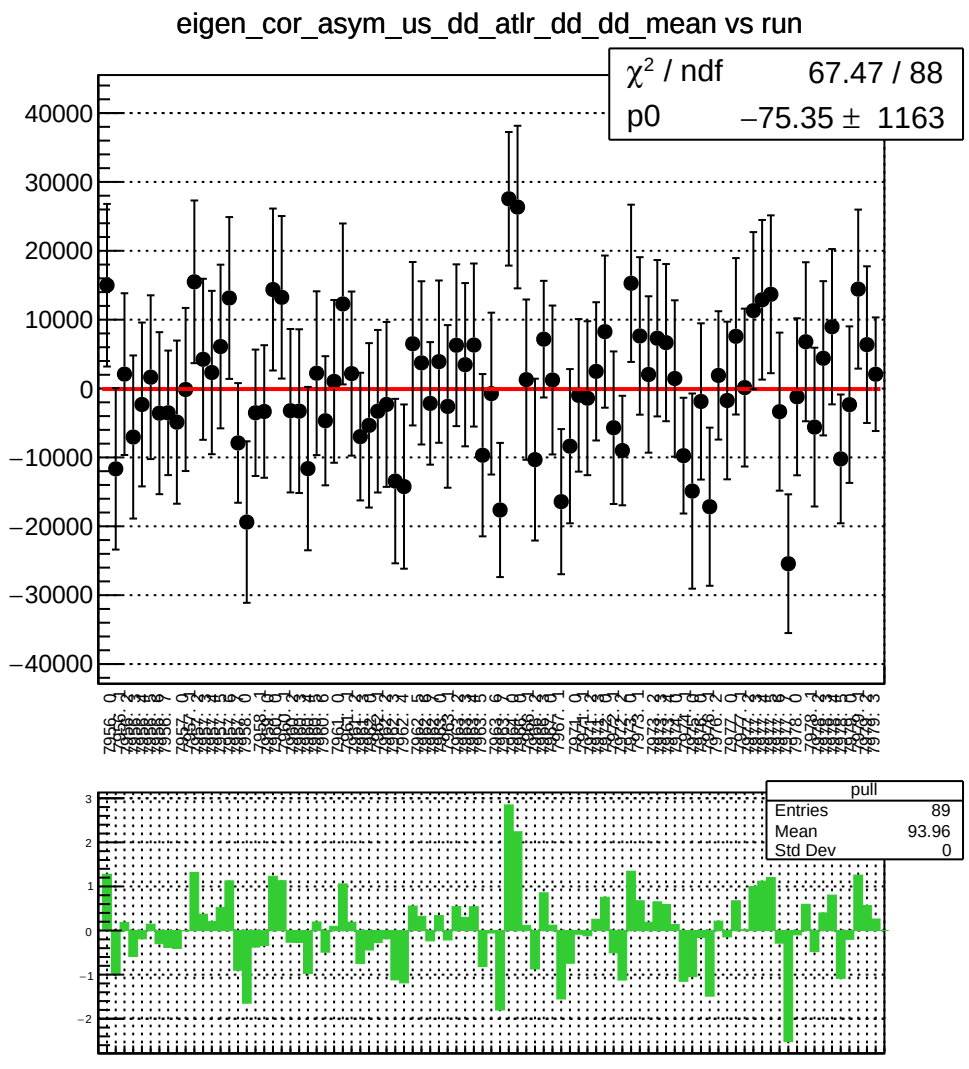

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 67.47 / 88
p0 −75.35 ± 1163
pull
Entries 89
Mean 93.96
Std Dev 0

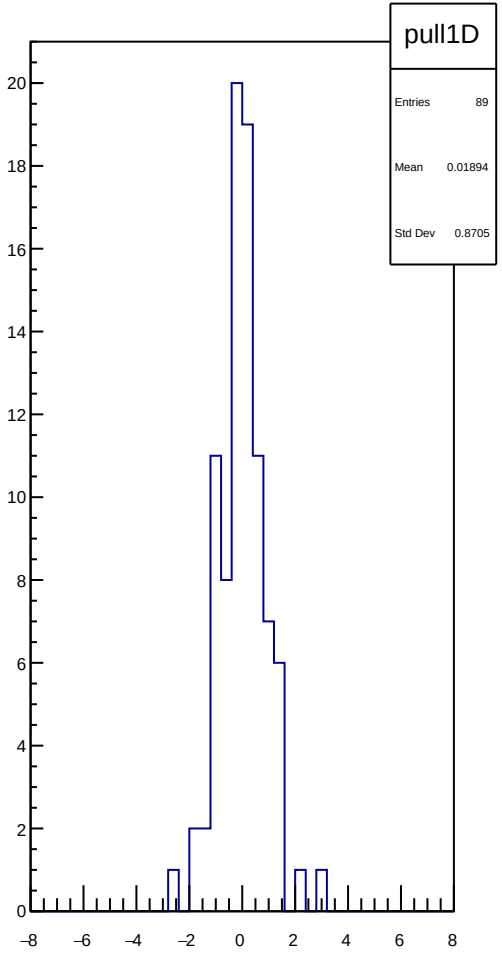

pull1D
Entries 89
Mean 0.01894
Std Dev 0.8705

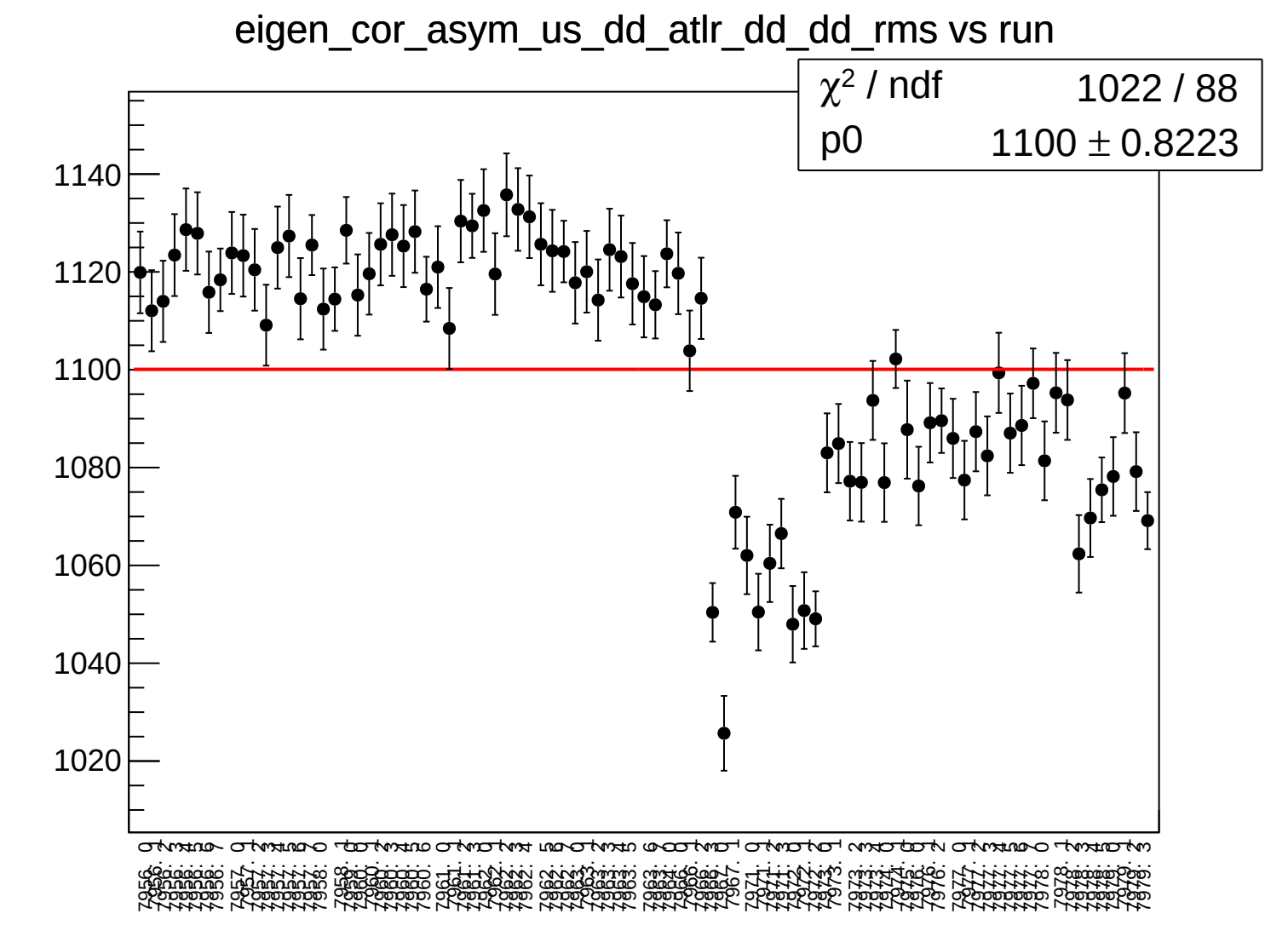

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1022 / 88
p0 1100 ± 0.8223
1140
1120
1100
1080
1060
1040
1020

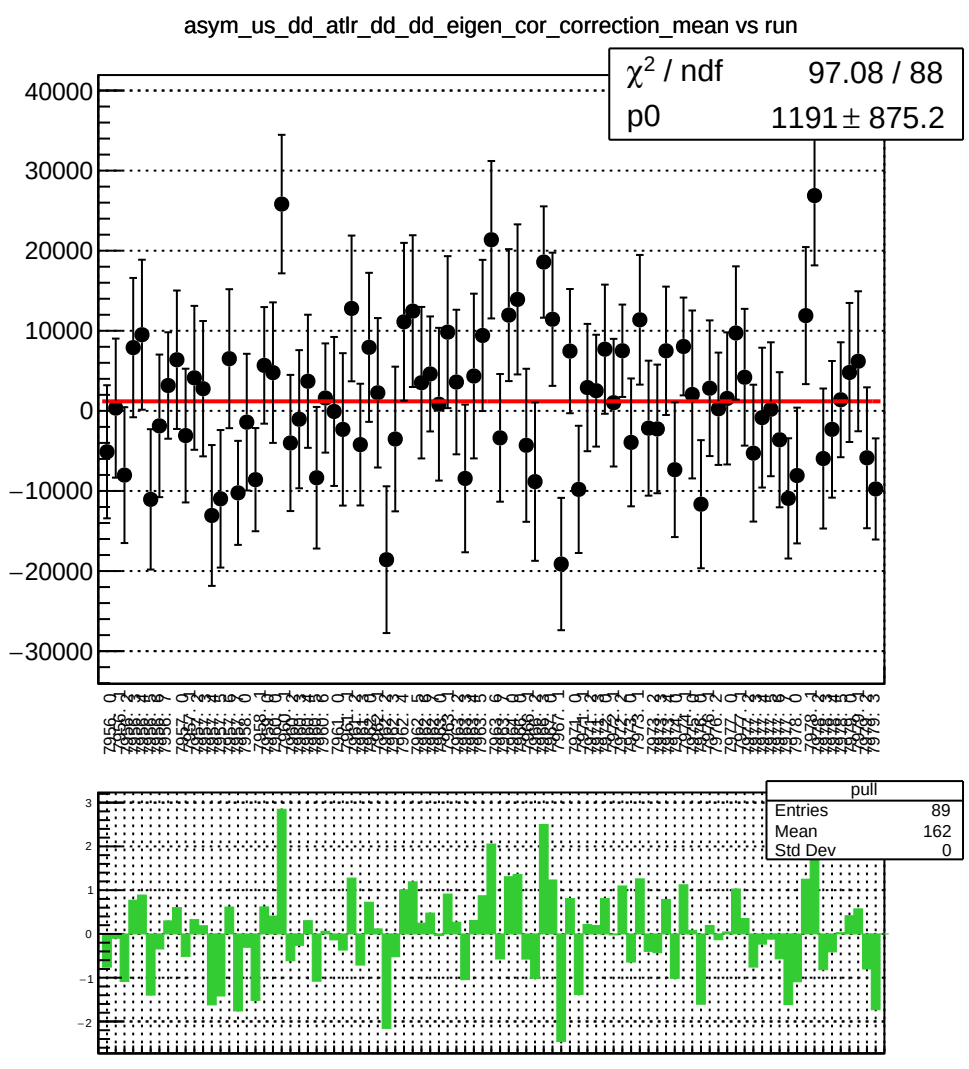

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 97.08 / 88
p0 1191 ± 875.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 162
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.009377
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

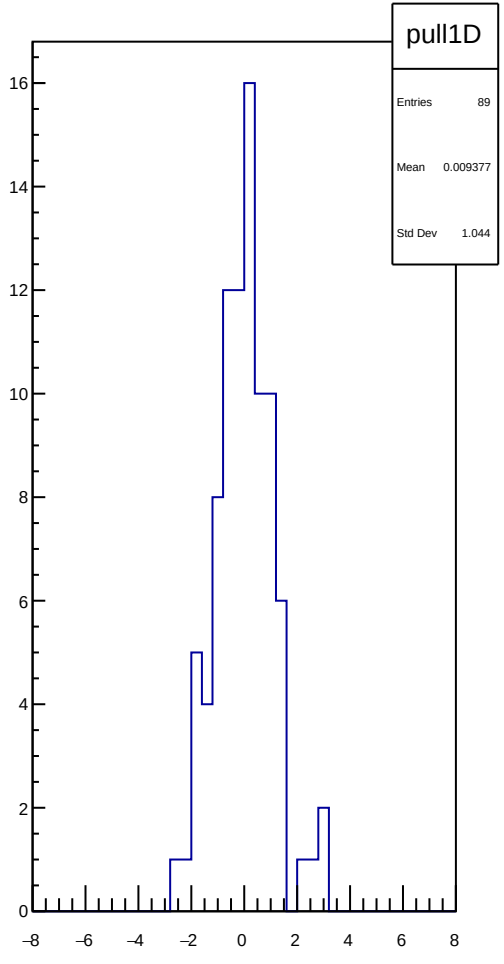

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 6708 / 88
p0 826.6 ± 0.6189
1000
950
900
850
800
750

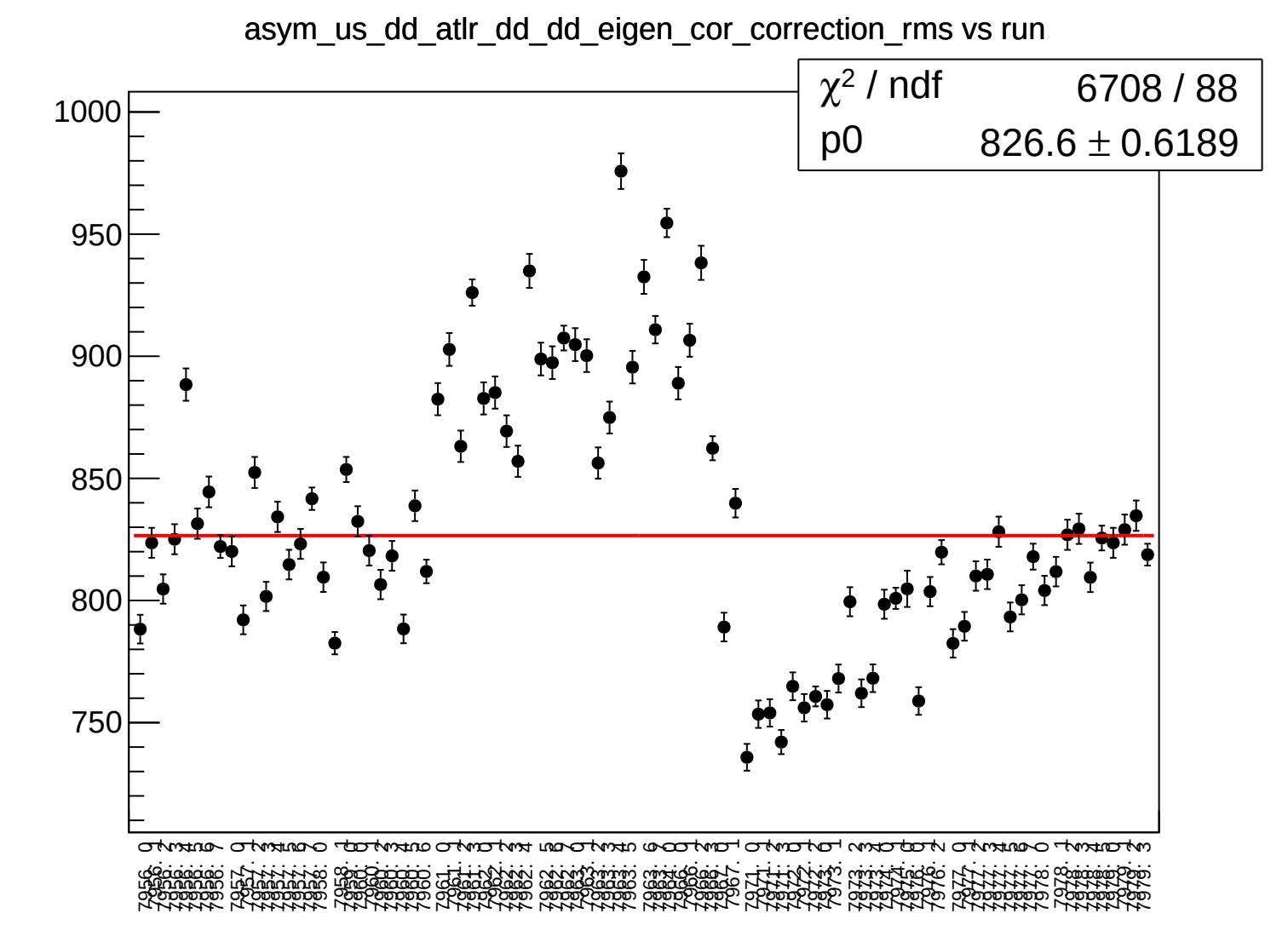

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 67.47 / 88
p0 −75.35 ± 1163
pull
Entries 89
Mean 93.96
Std Dev 0

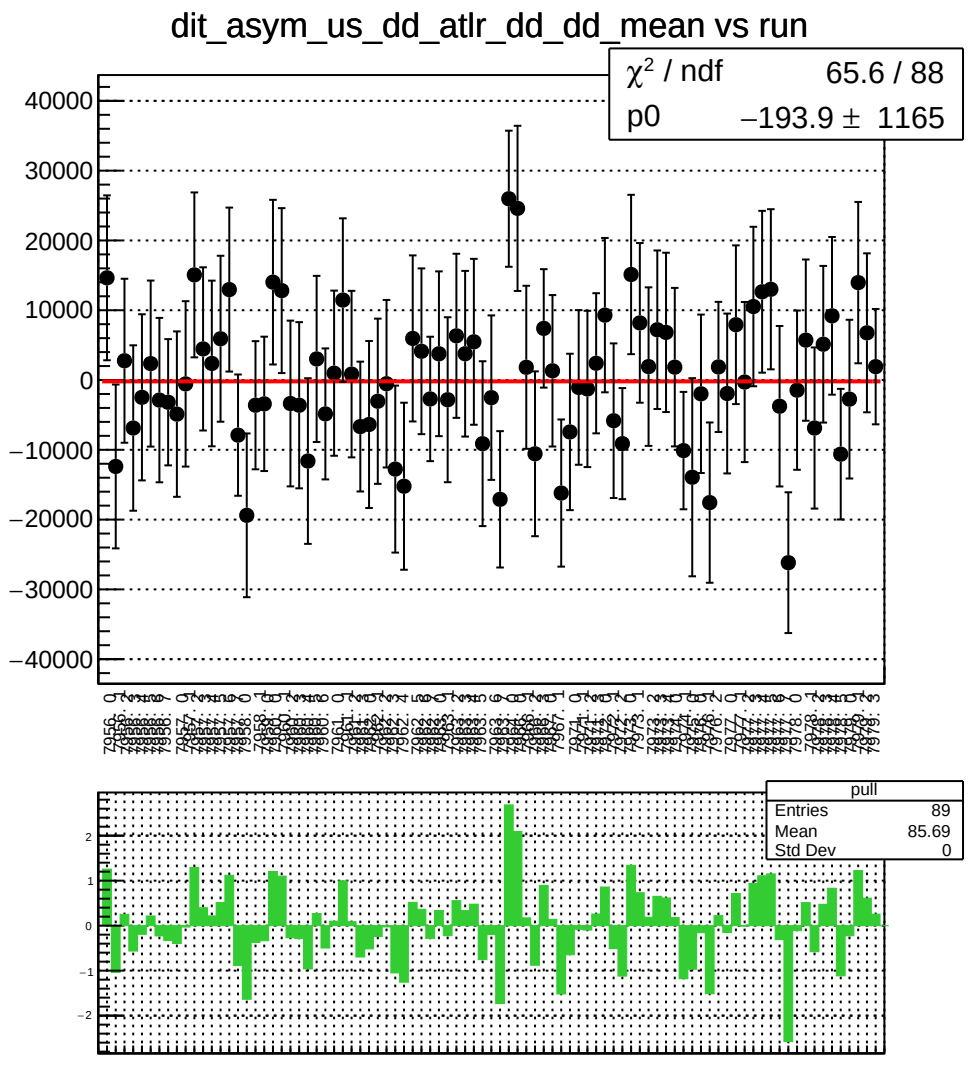

pull1D
Entries 89
Mean 0.01894
Std Dev 0.8705

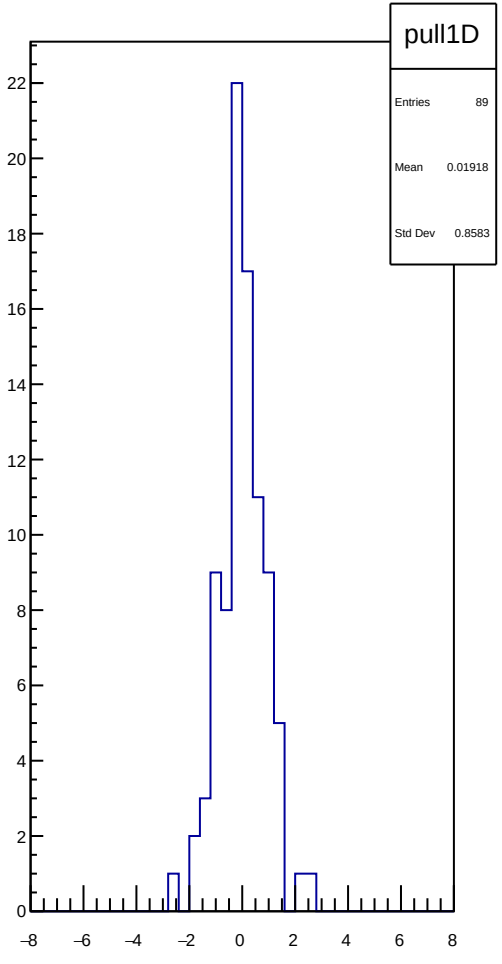

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1022 / 88
p0 1100 ± 0.8223
1140
1120
1100
1080
1060
1040
1020

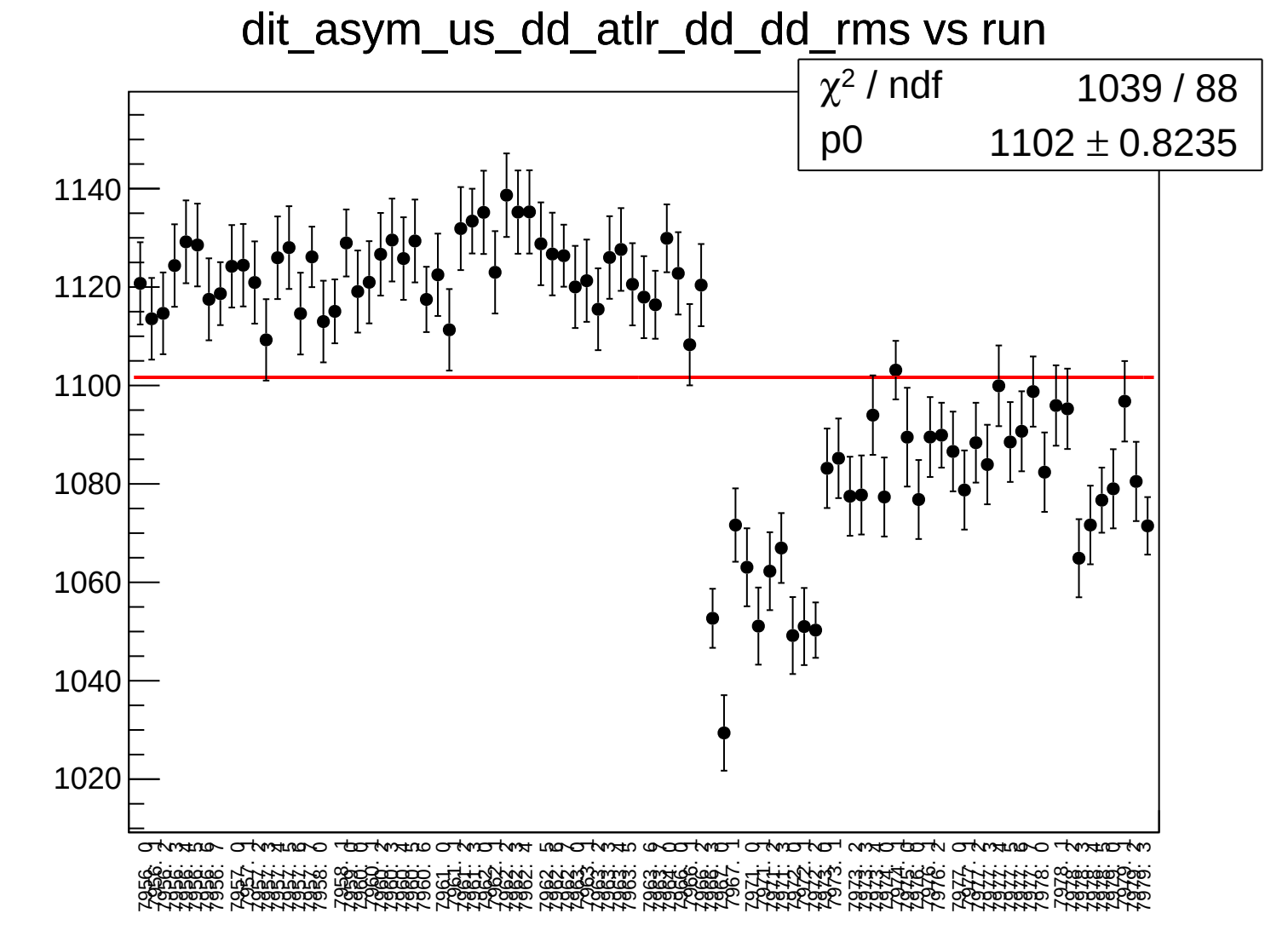

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.08 / 88
p0 1191 ± 875.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 162
Std Dev 0
3
2
1
0
−1
−2

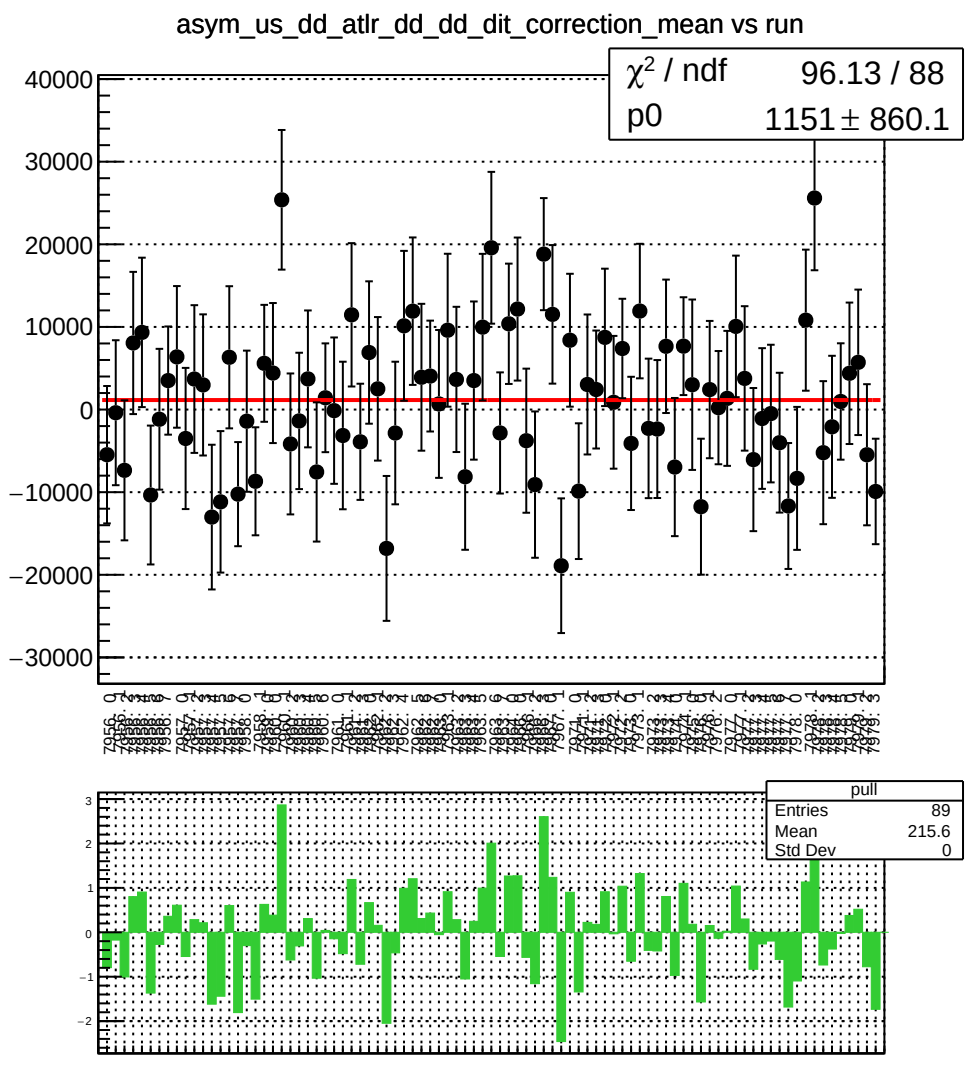

pull1D
Entries 89
Mean 0.009377
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

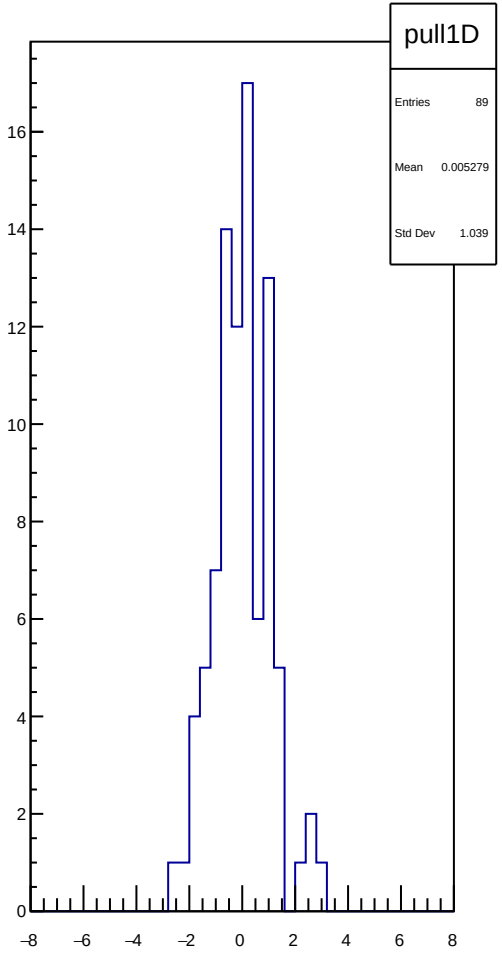

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6708 / 88
p0 826.6 ± 0.6189
1000
950
900
850
800
750

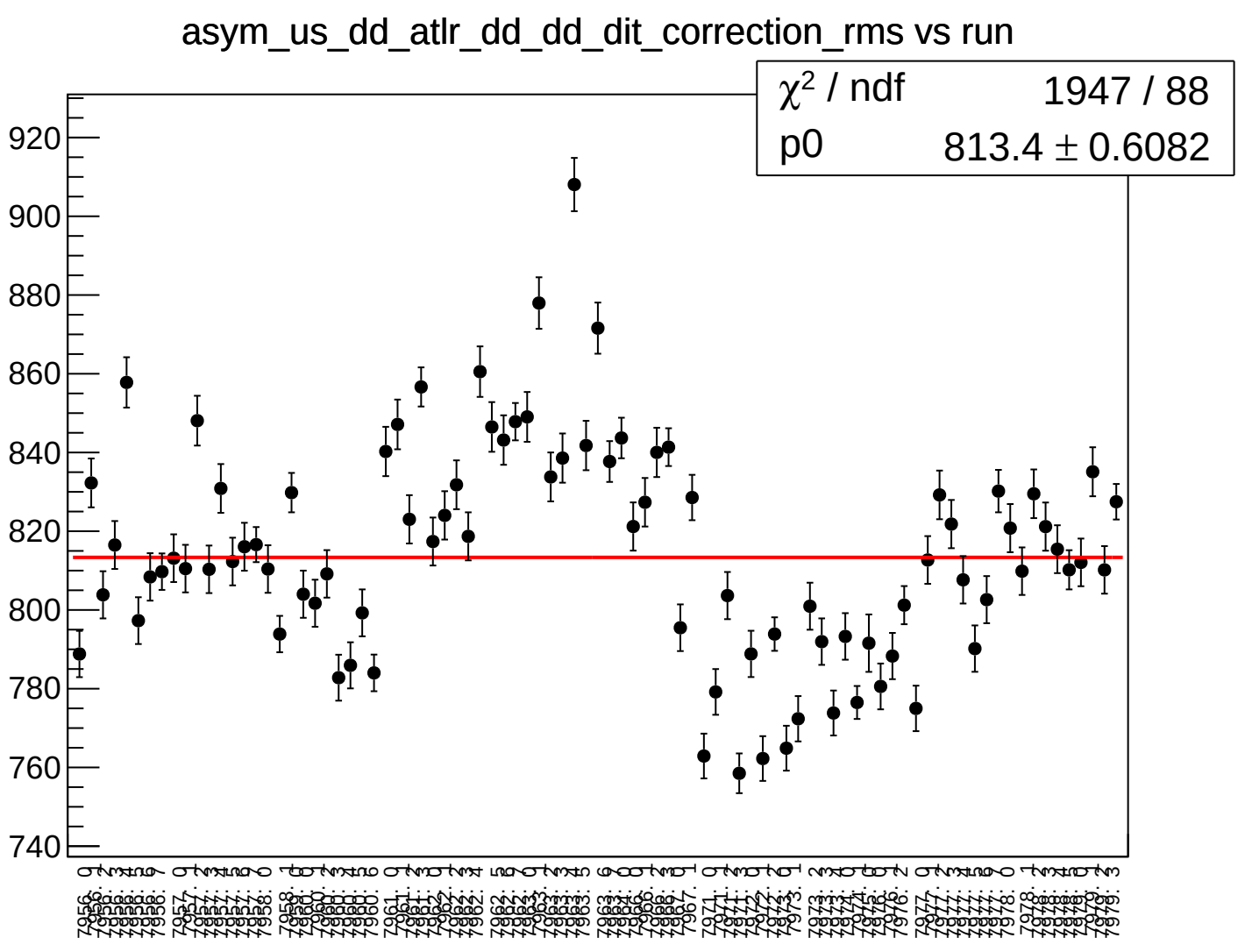

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 65.6 / 88
p0 −193.9 ± 1165
pull
Entries 89
Mean 85.69
Std Dev 0

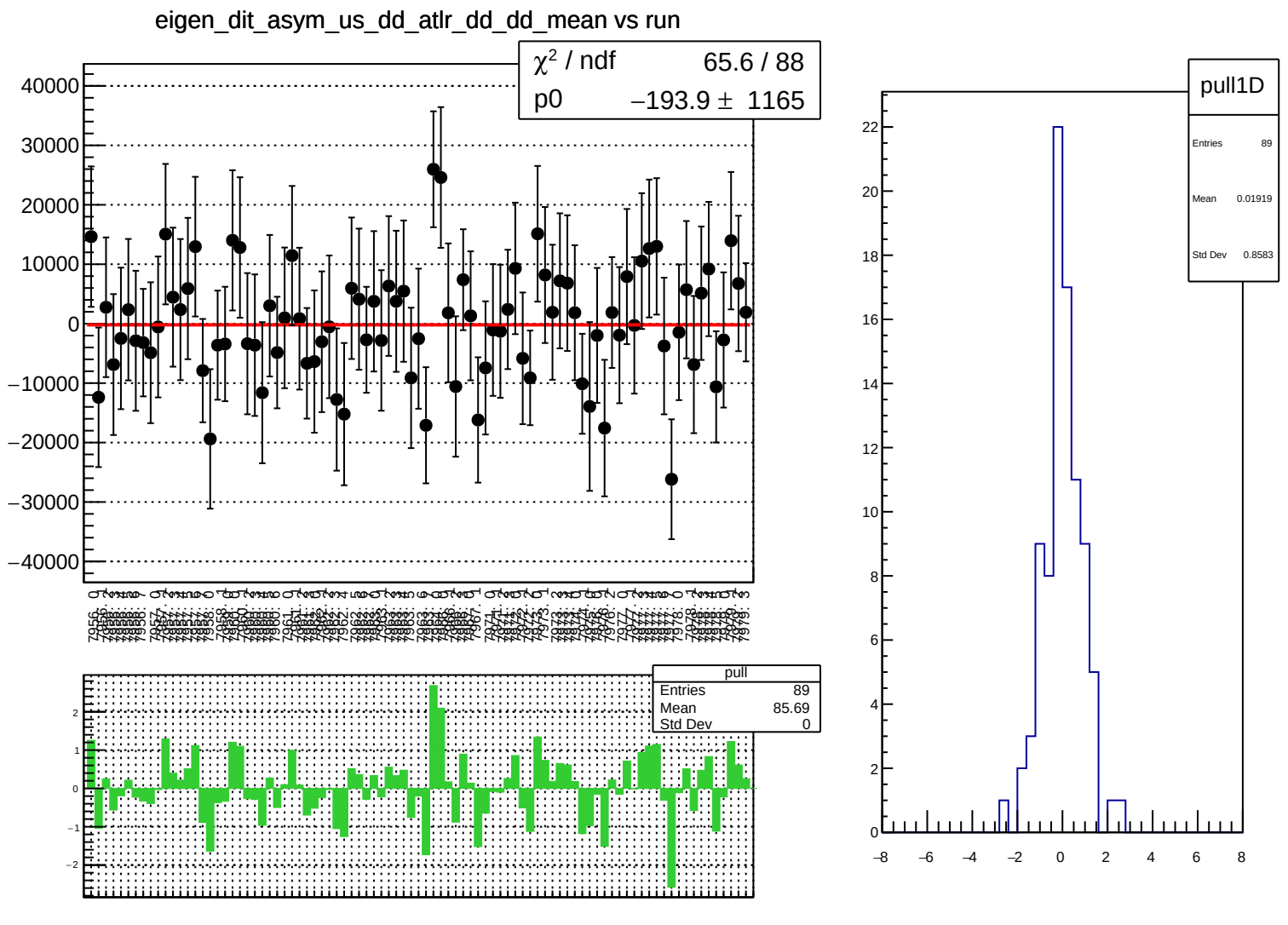

pull1D
Entries 89
Mean 0.01918
Std Dev 0.8583

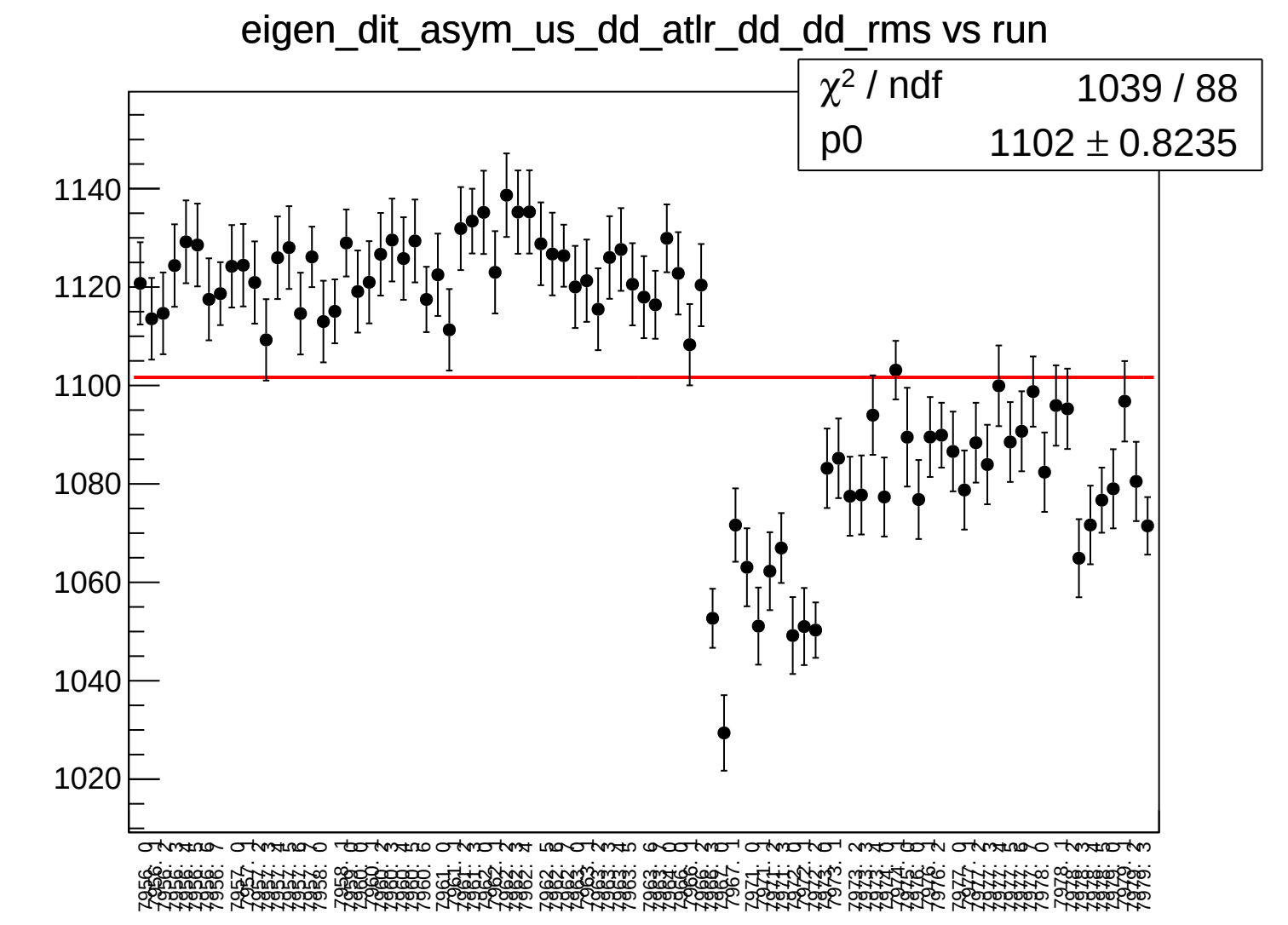

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1039 / 88
p0 1102 ± 0.8235
1140
1120
1100
1080
1060
1040
1020

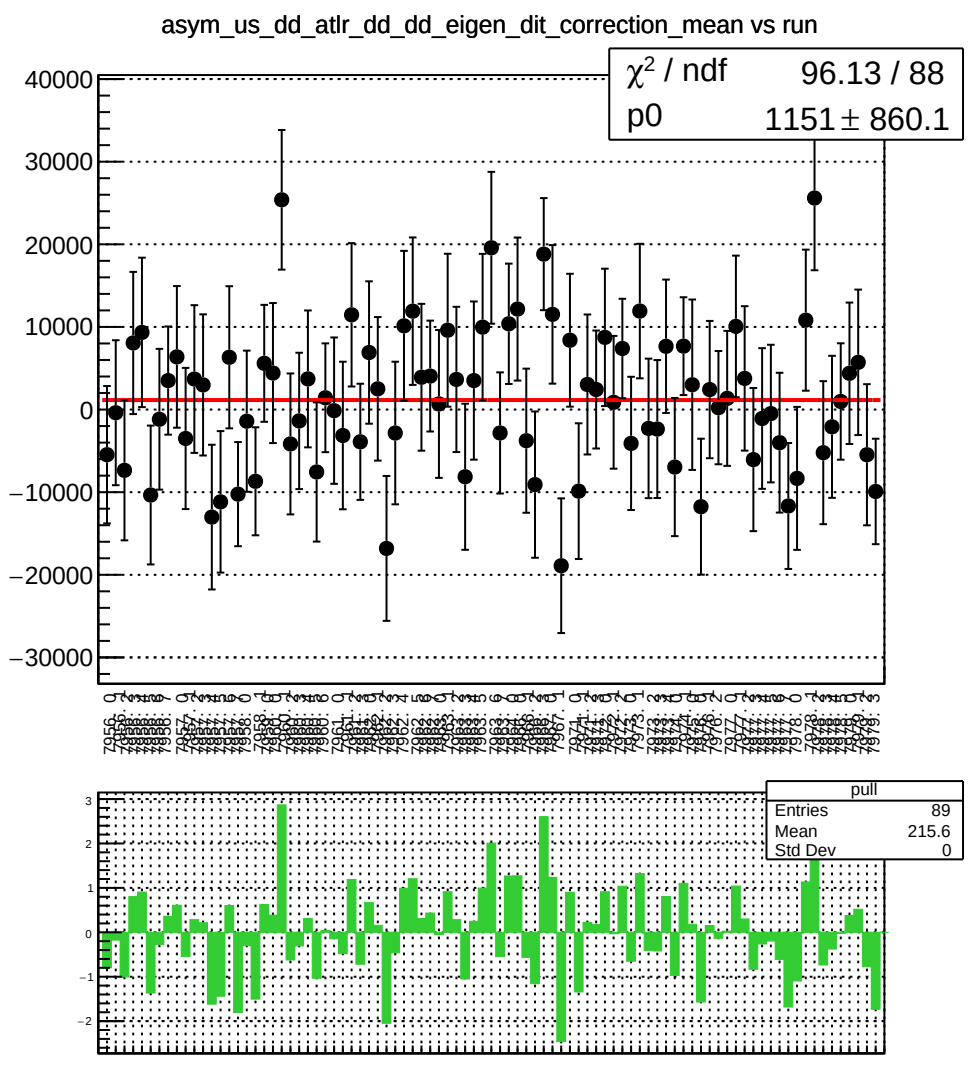

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 96.13 / 88
p0 1151 ± 860.1
pull
Entries 89
Mean 215.6
Std Dev 0

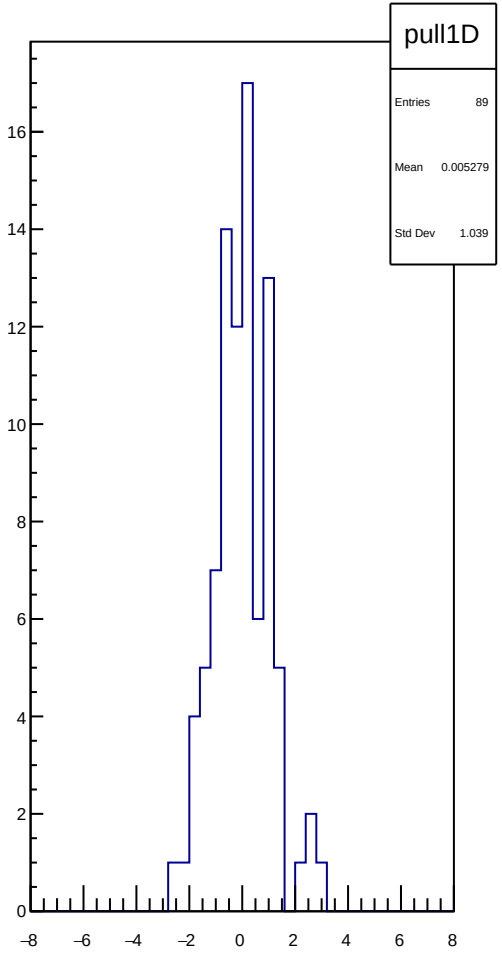

pull1D
Entries 89
Mean 0.005279
Std Dev 1.039

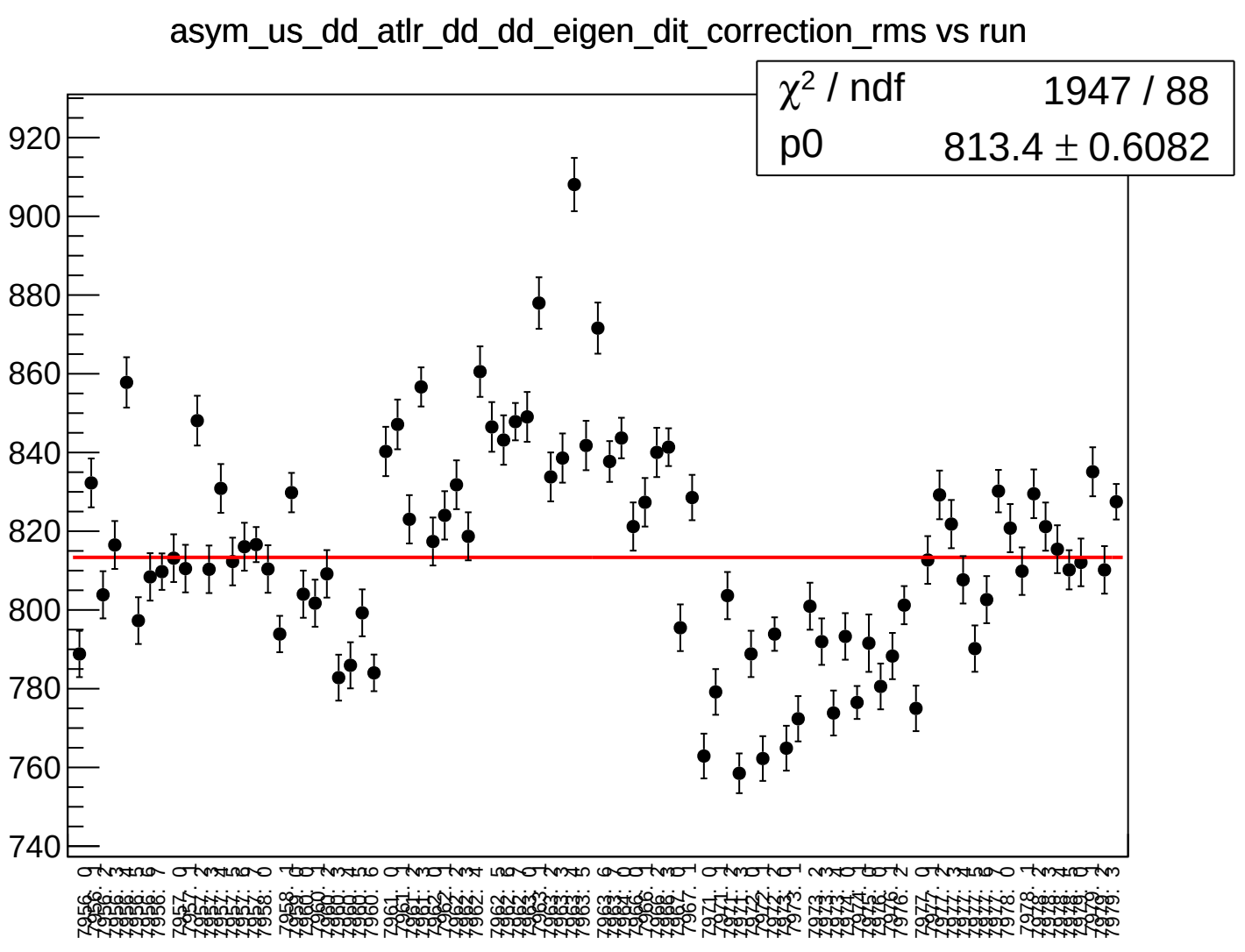

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1947 / 88
p0 813.4 ± 0.6082
920
900
880
860
840
820
800
780
760
740

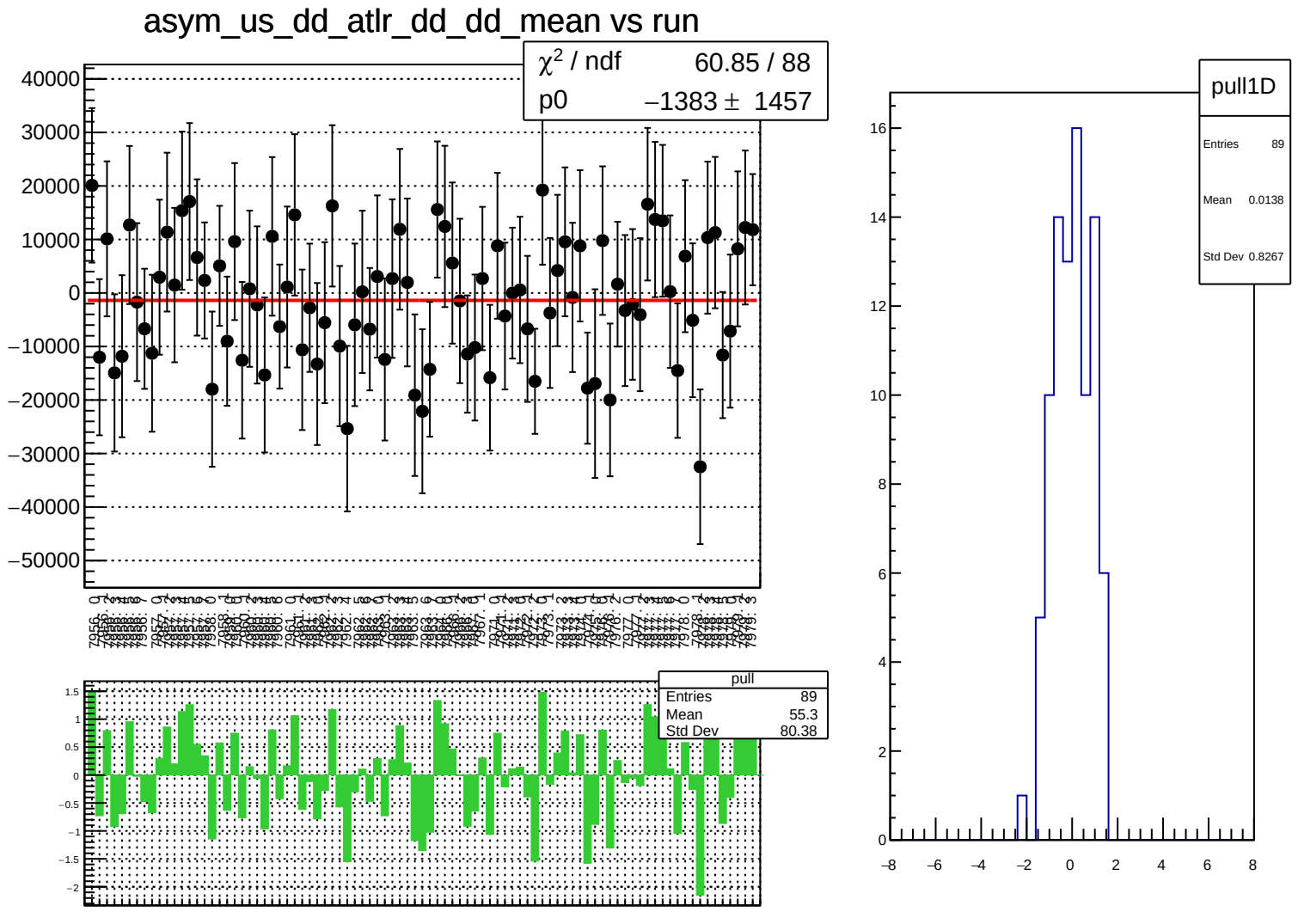

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 65.6 / 88
p0 −193.9 ± 1165
pull
Entries 89
Mean 85.69
Std Dev 0
pull1D
Entries 89
Mean 0.01919
Std Dev 0.8583

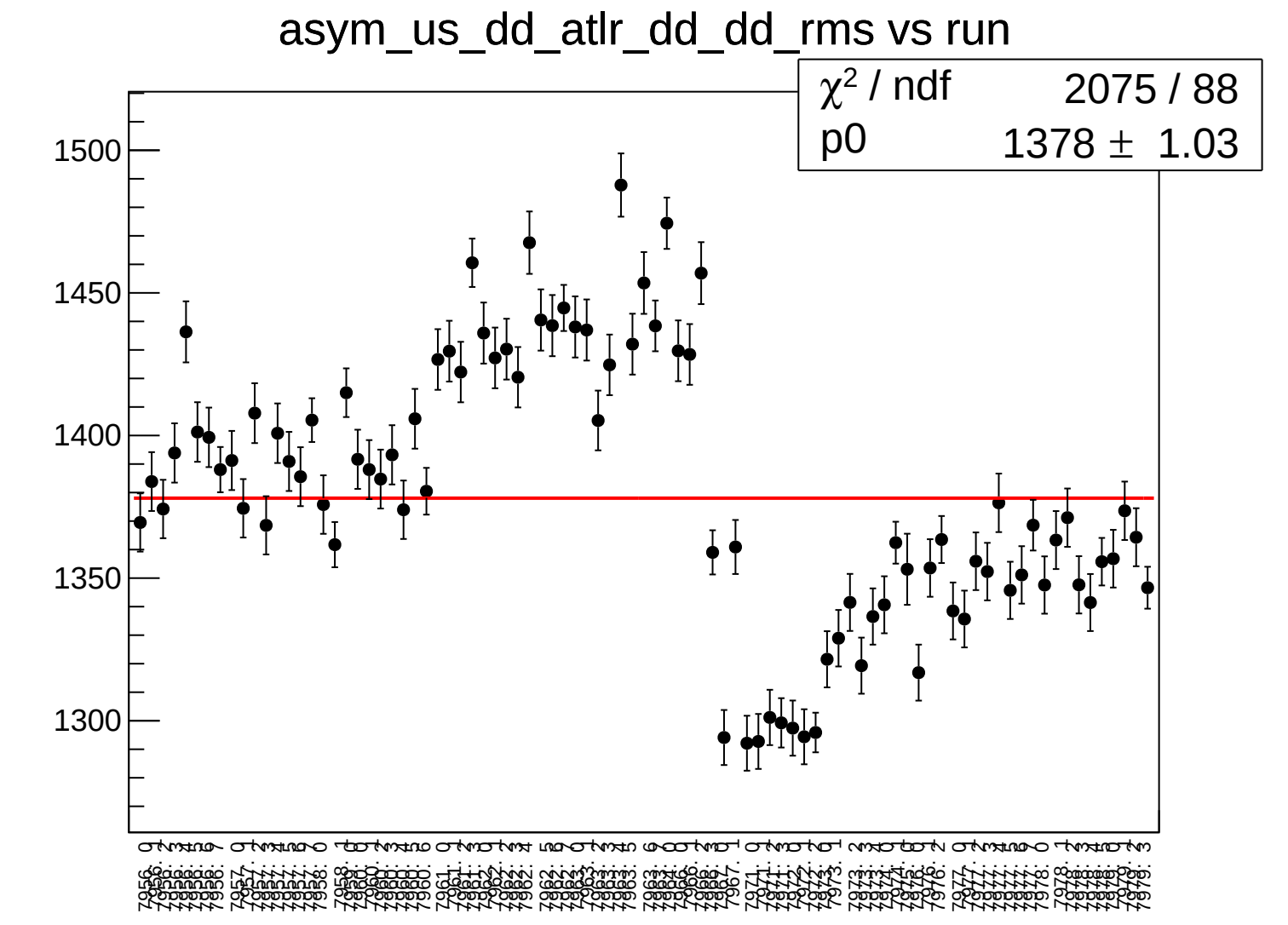

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1039 / 88
p0 1102 ± 0.8235
1140
1120
1100
1080
1060
1040
1020

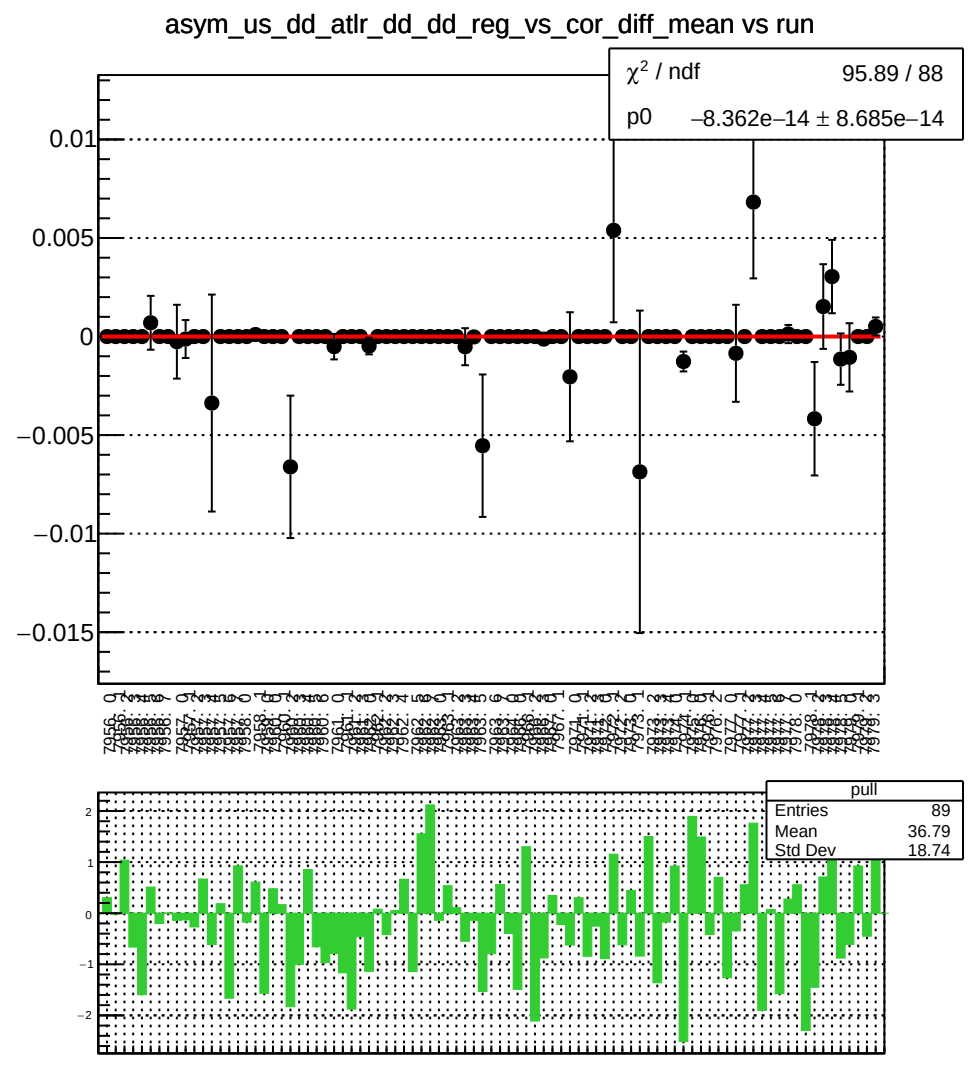

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.13 / 88
p0 1151 ± 860.1
pull
Entries 89
Mean 215.6
Std Dev 0

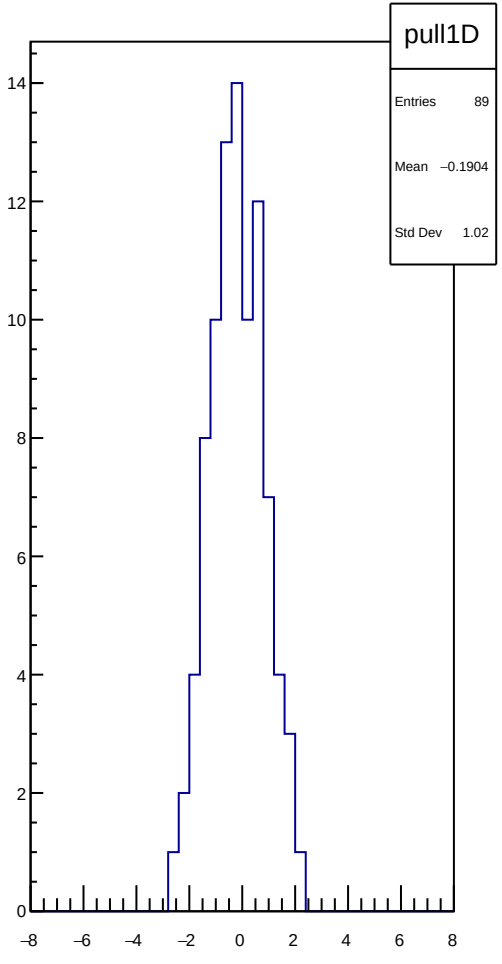

pull1D
Entries 89
Mean 0.005279
Std Dev 1.039

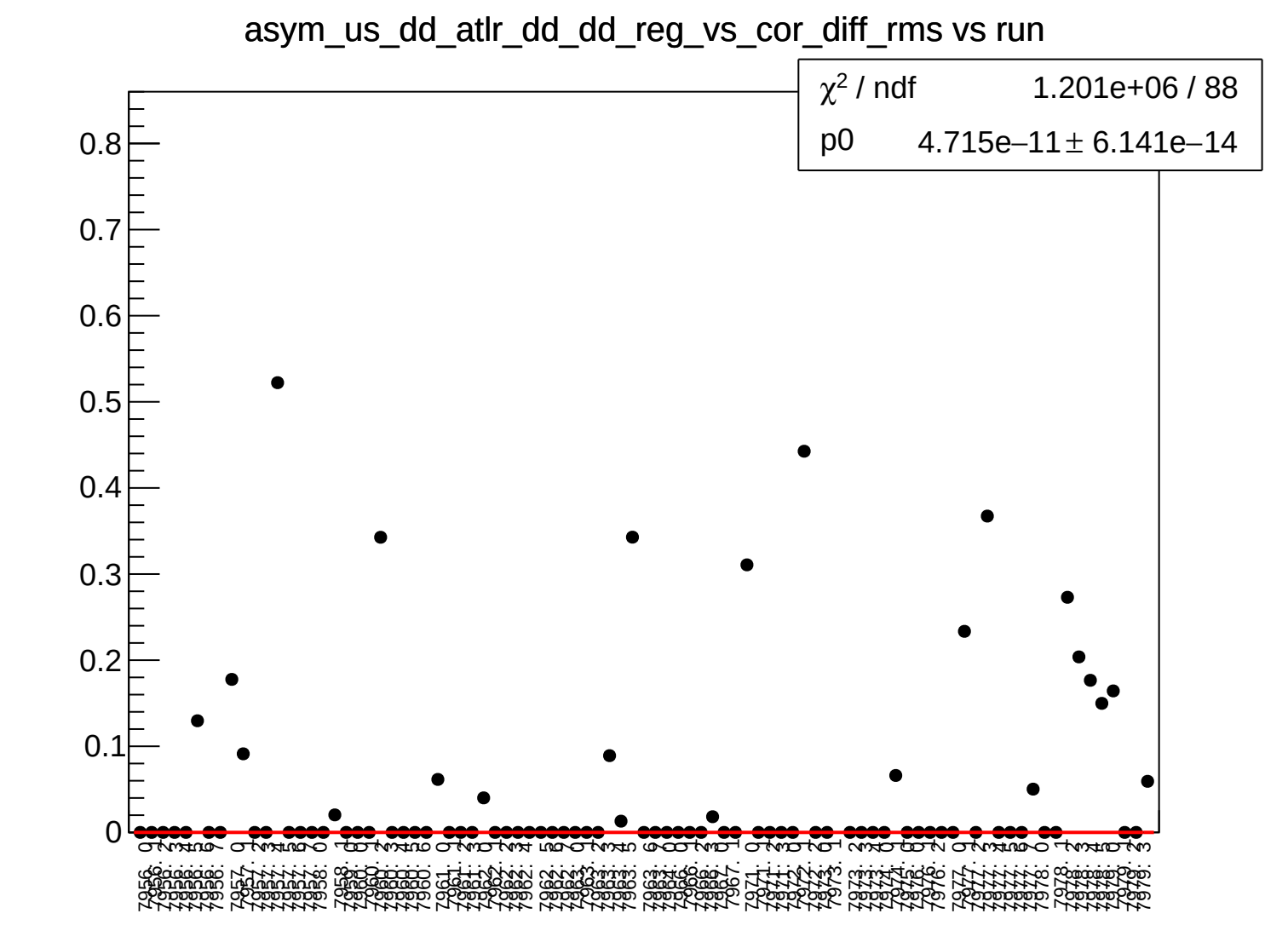

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1947 / 88
p0 813.4 ± 0.6082
920
900
880
860
840
820
800
780
760
740

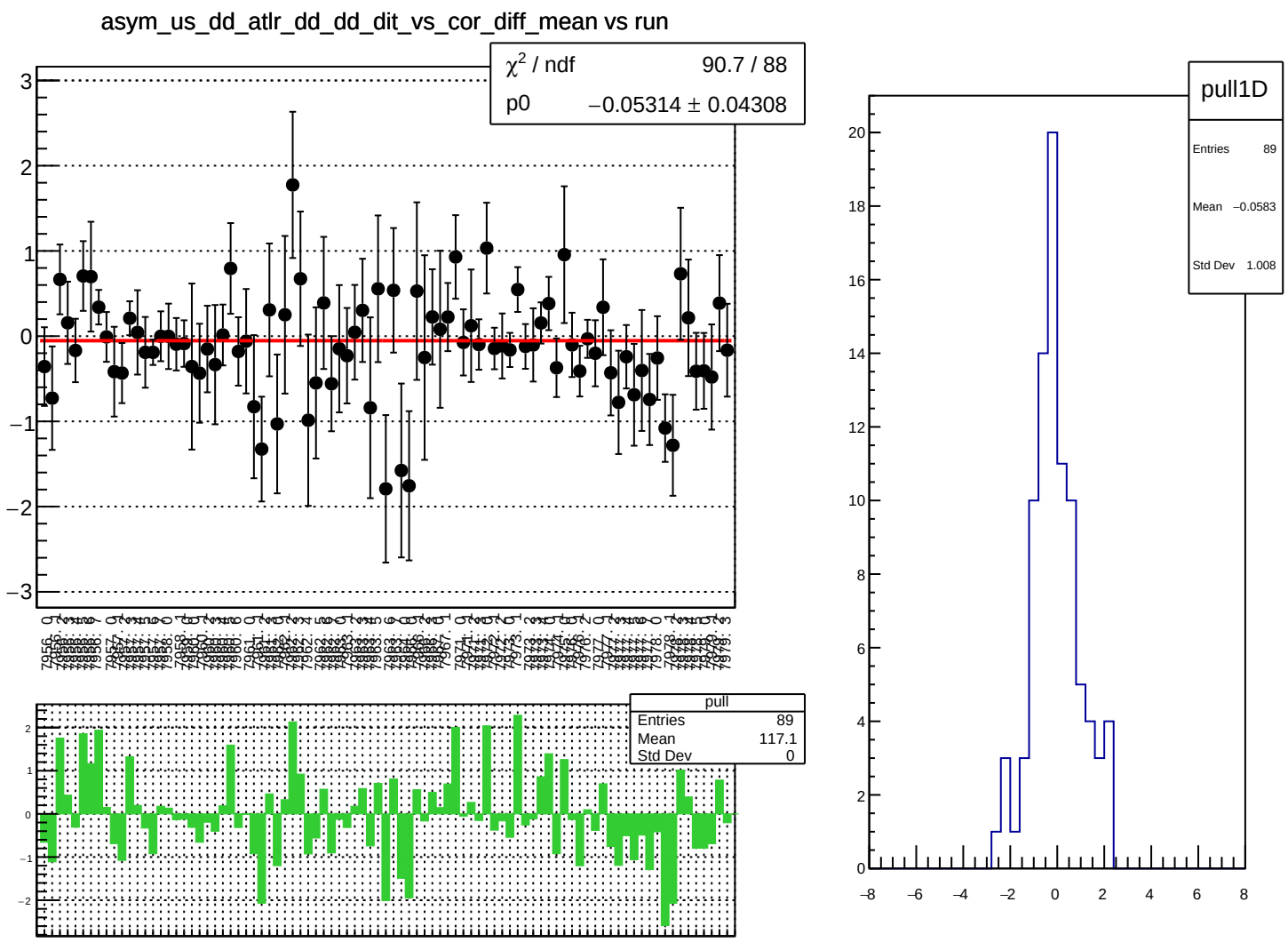

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 60.85 / 88
p0 −1383 ± 1457
pull
Entries 89
Mean 55.3
Std Dev 80.38
pull1D
Entries 89
Mean 0.0138
Std Dev 0.8267

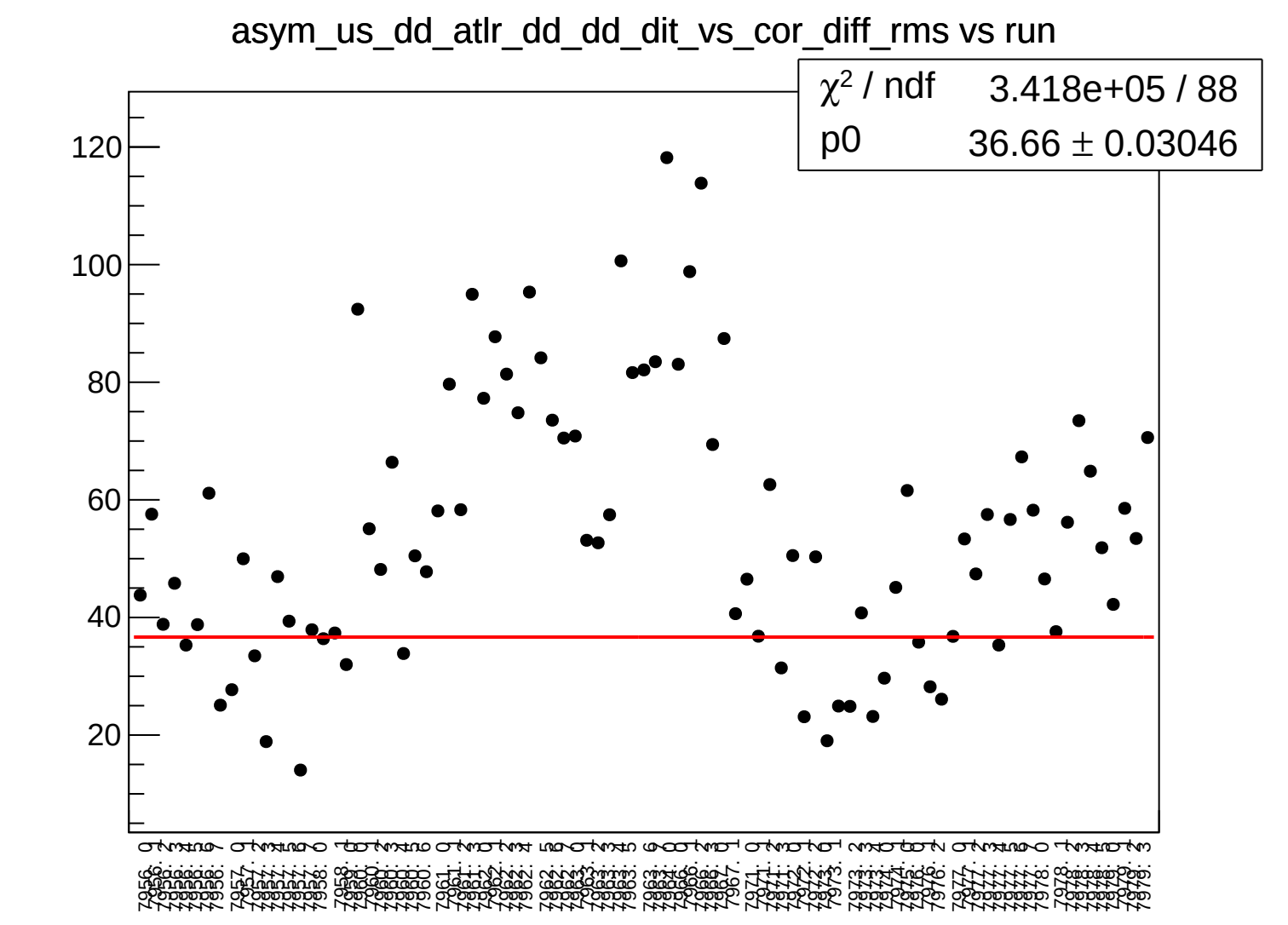

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 2075 / 88
p0 1378 ± 1.03
1500
1450
1400
1350
1300

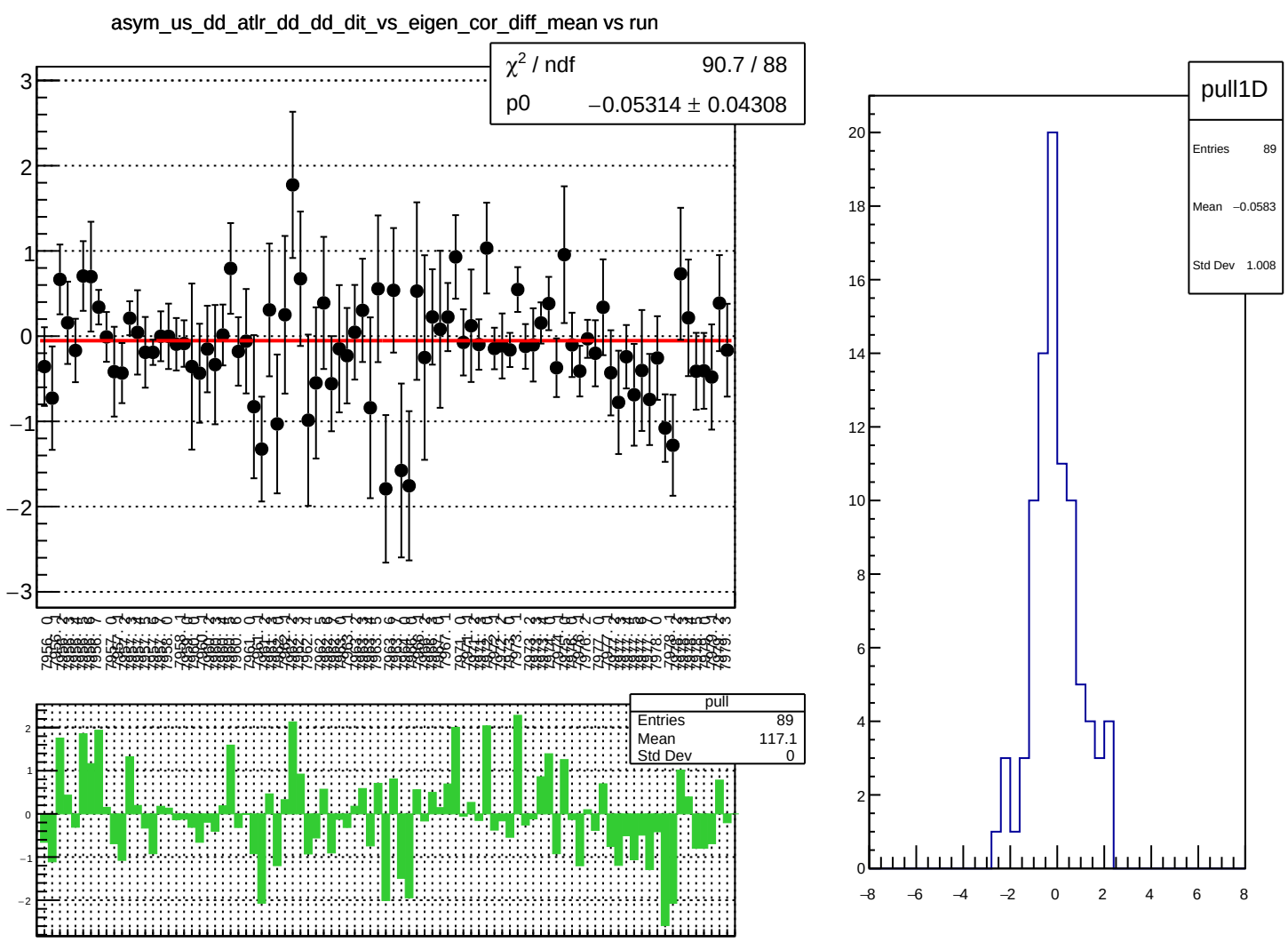

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.89 / 88
p0 −8.362e−14 ± 8.685e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 36.79
Std Dev 18.74
2
1
0
−1
−2

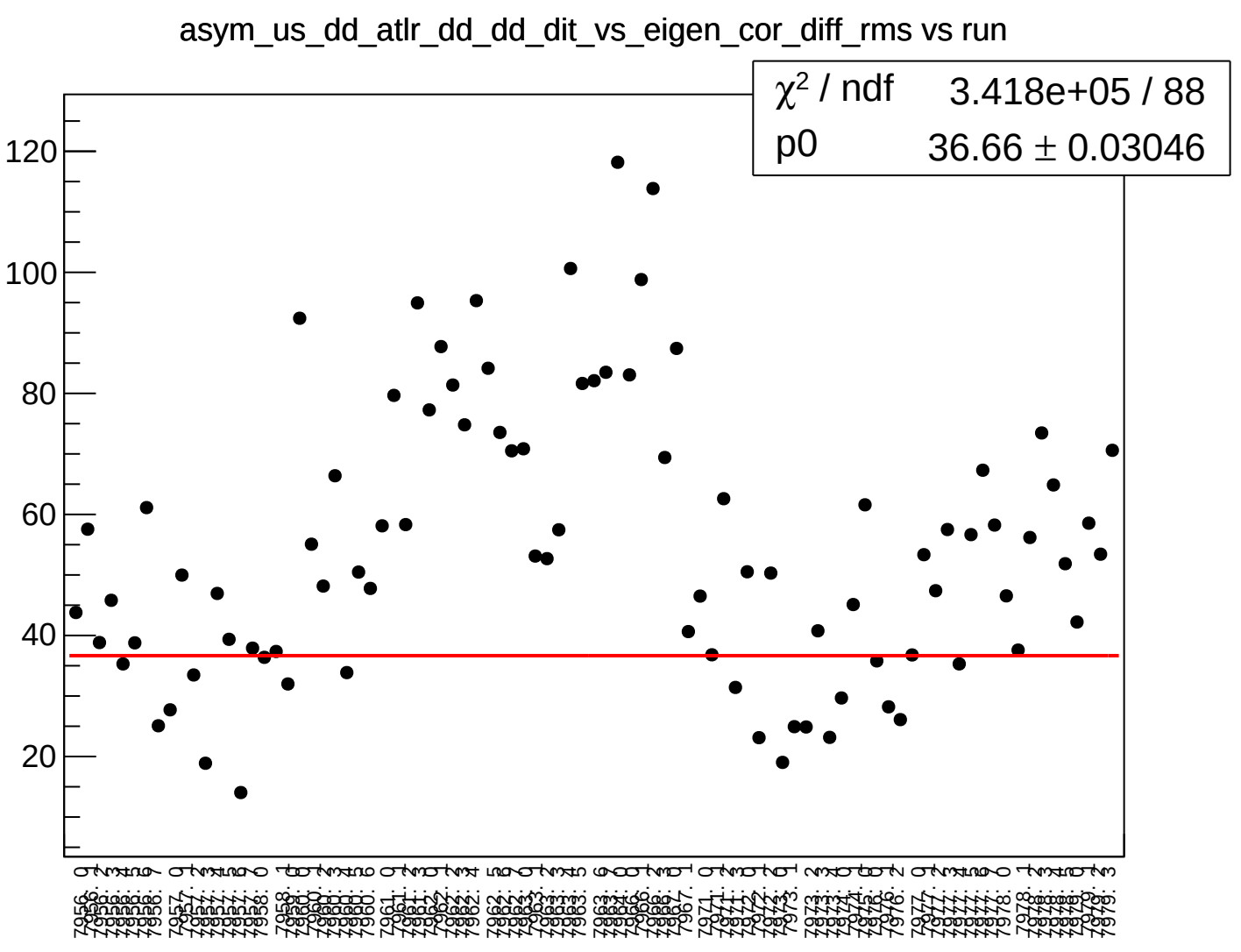

pull1D
Entries 89
Mean −0.1904
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

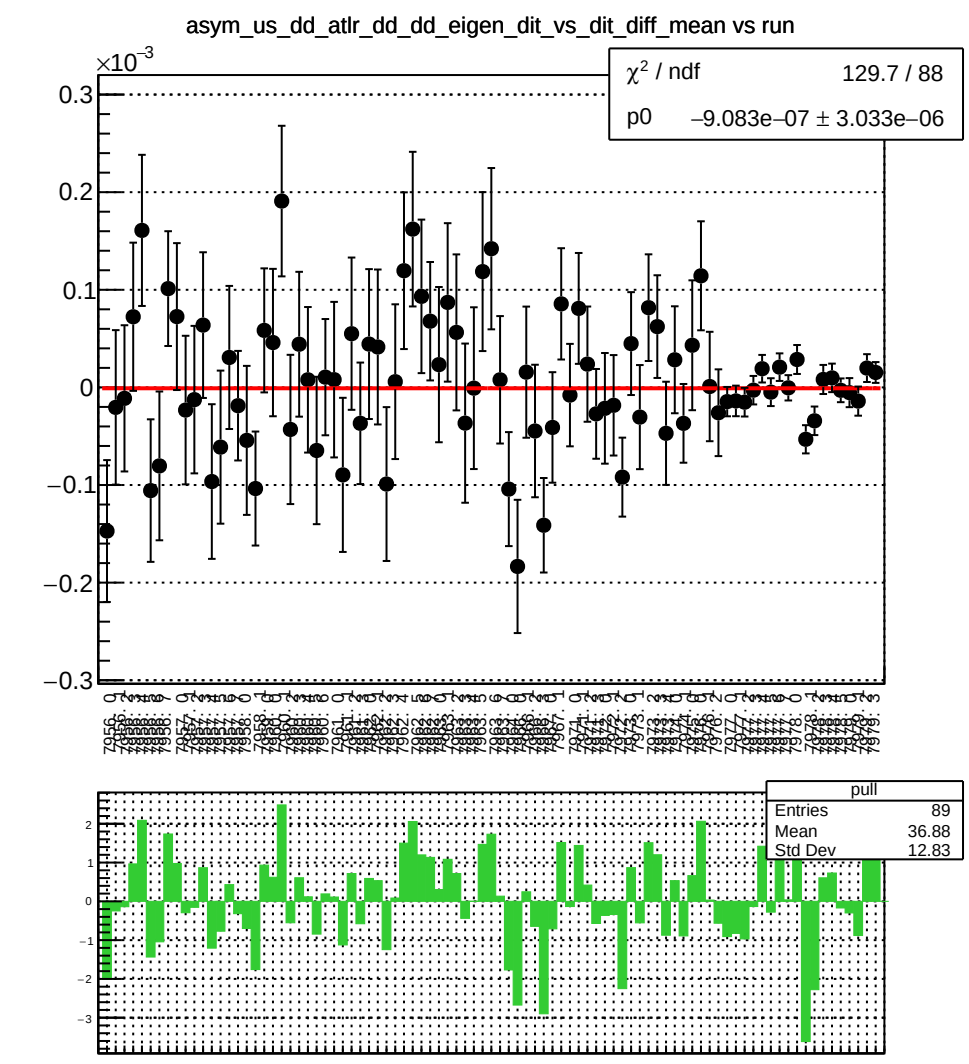

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.201e+06 / 88
p0 4.715e−11 ± 6.141e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

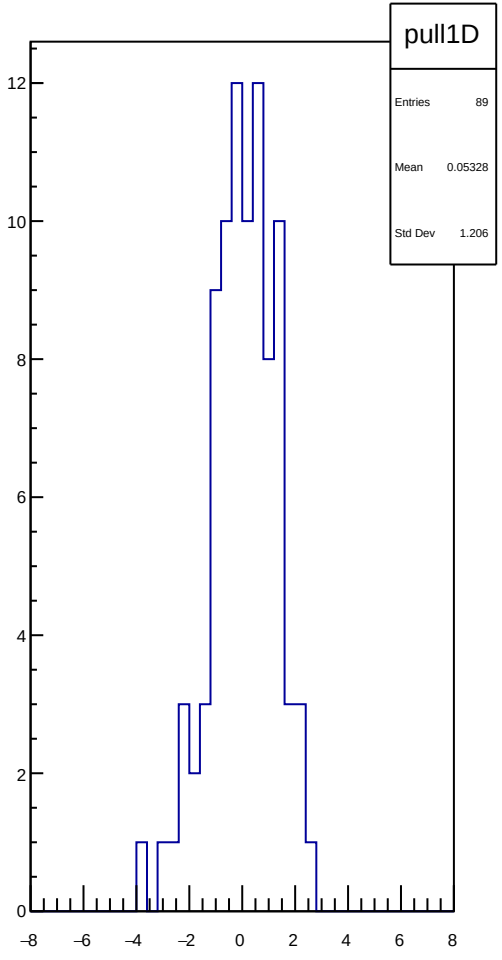

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.7 / 88
p0 −0.05314 ± 0.04308
pull
Entries 89
Mean 117.1
Std Dev 0
pull1D
Entries 89
Mean −0.0583
Std Dev 1.008

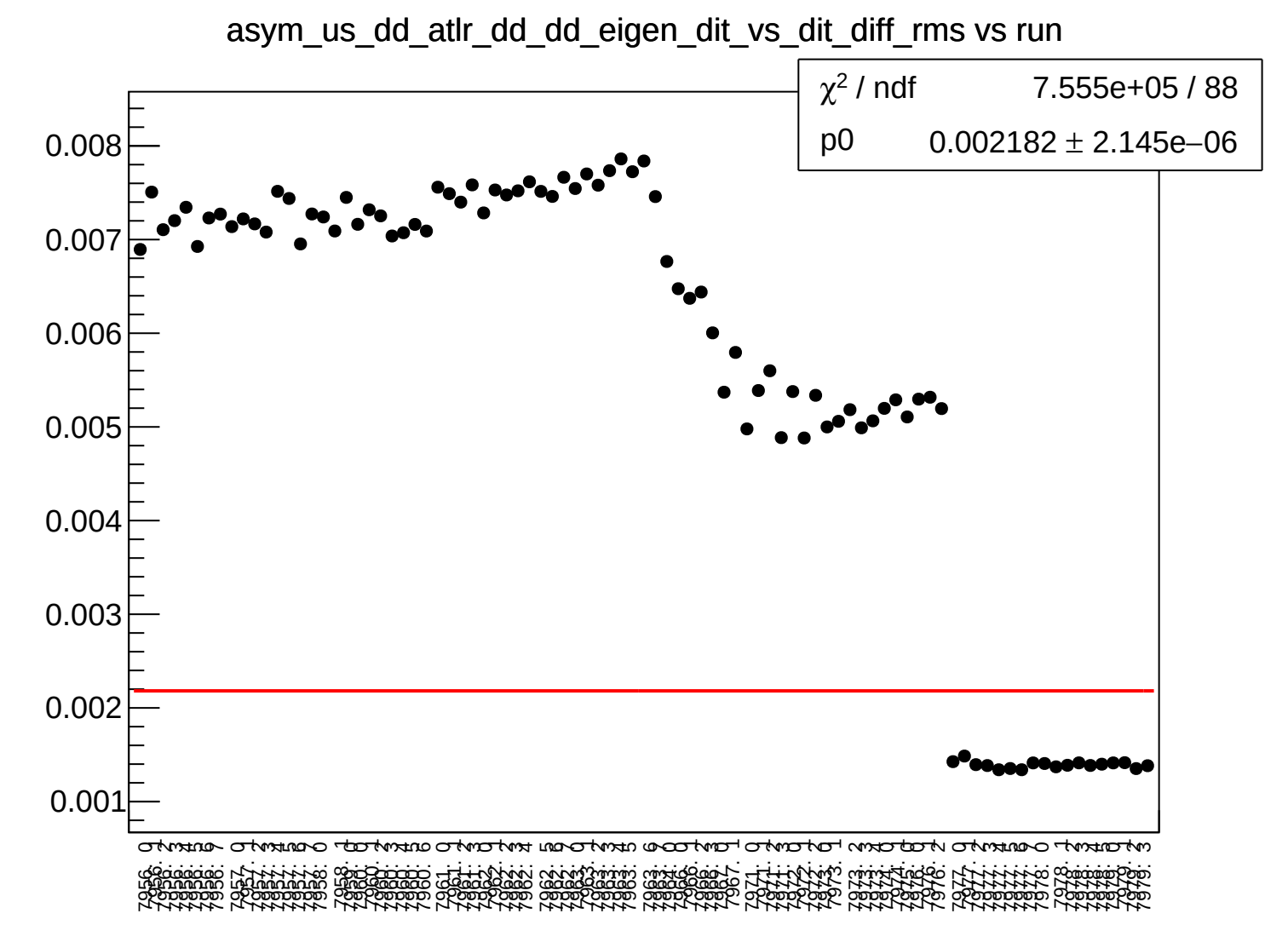

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.418e+05 / 88
p0 36.66 ± 0.03046
120
100
80
60
40
20

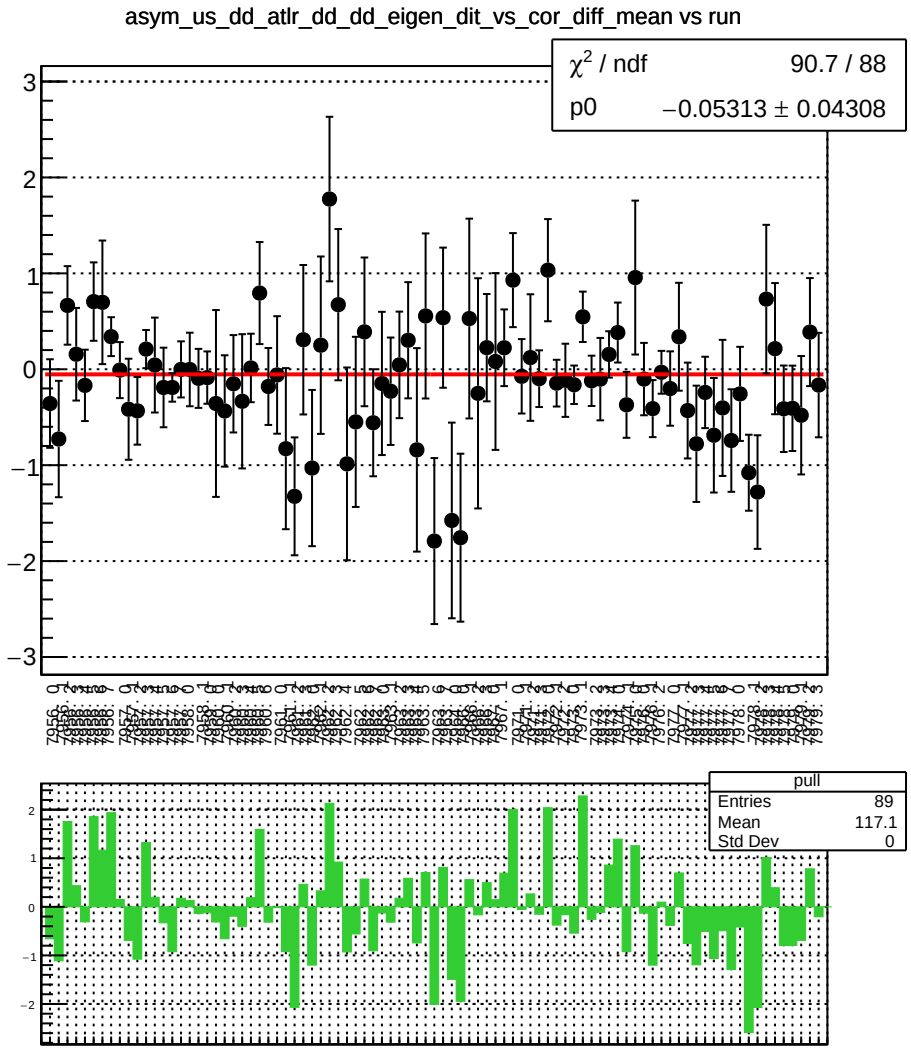

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.7 / 88
p0 −0.05314 ± 0.04308
pull
Entries 89
Mean 117.1
Std Dev 0
pull1D
Entries 89
Mean −0.0583
Std Dev 1.008

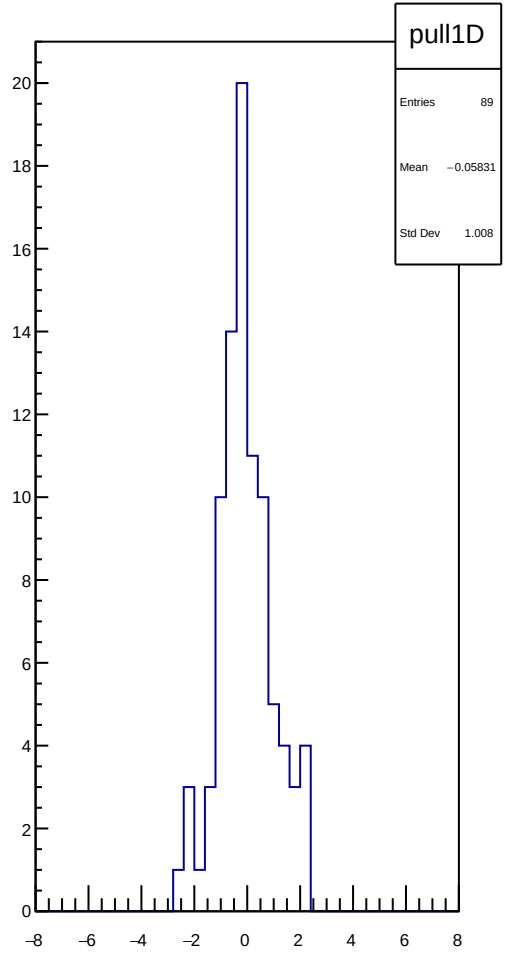

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.418e+05 / 88
p0 36.66 ± 0.03046
120
100
80
60
40
20

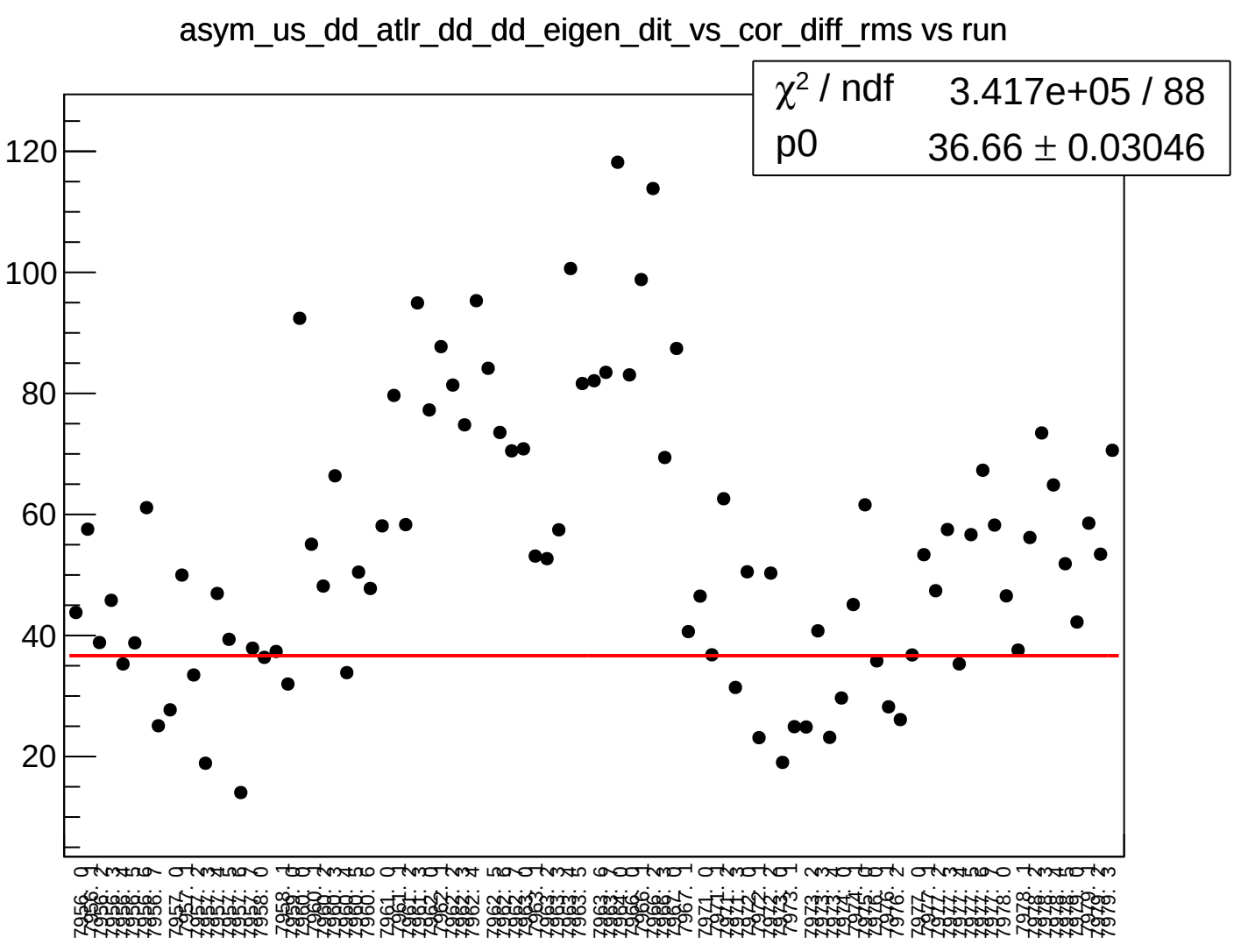

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 129.7 / 88
p0 −9.083e−07 ± 3.033e−06
pull
Entries 89
Mean 36.88
Std Dev 12.83

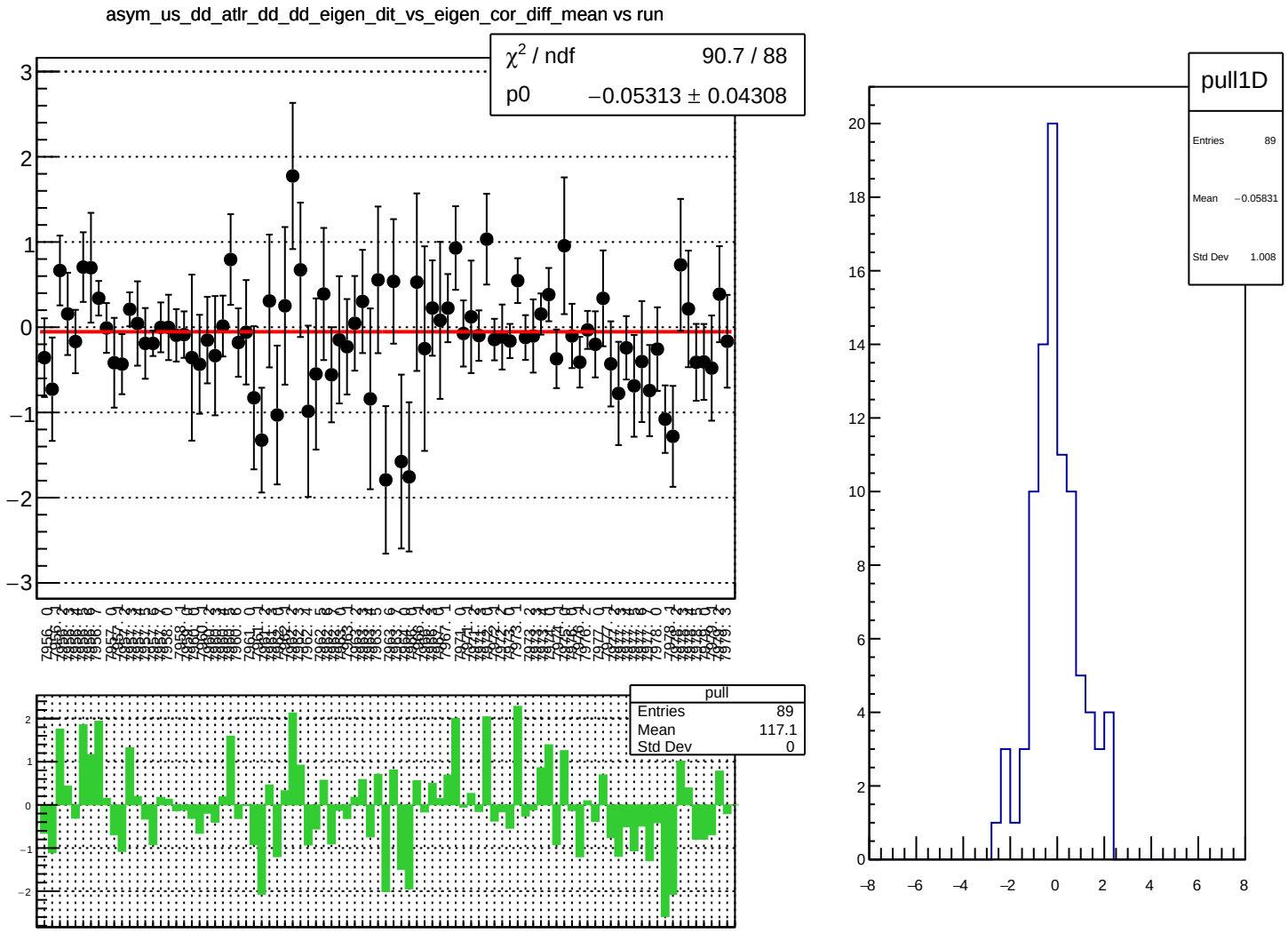

pull1D
Entries 89
Mean 0.05328
Std Dev 1.206

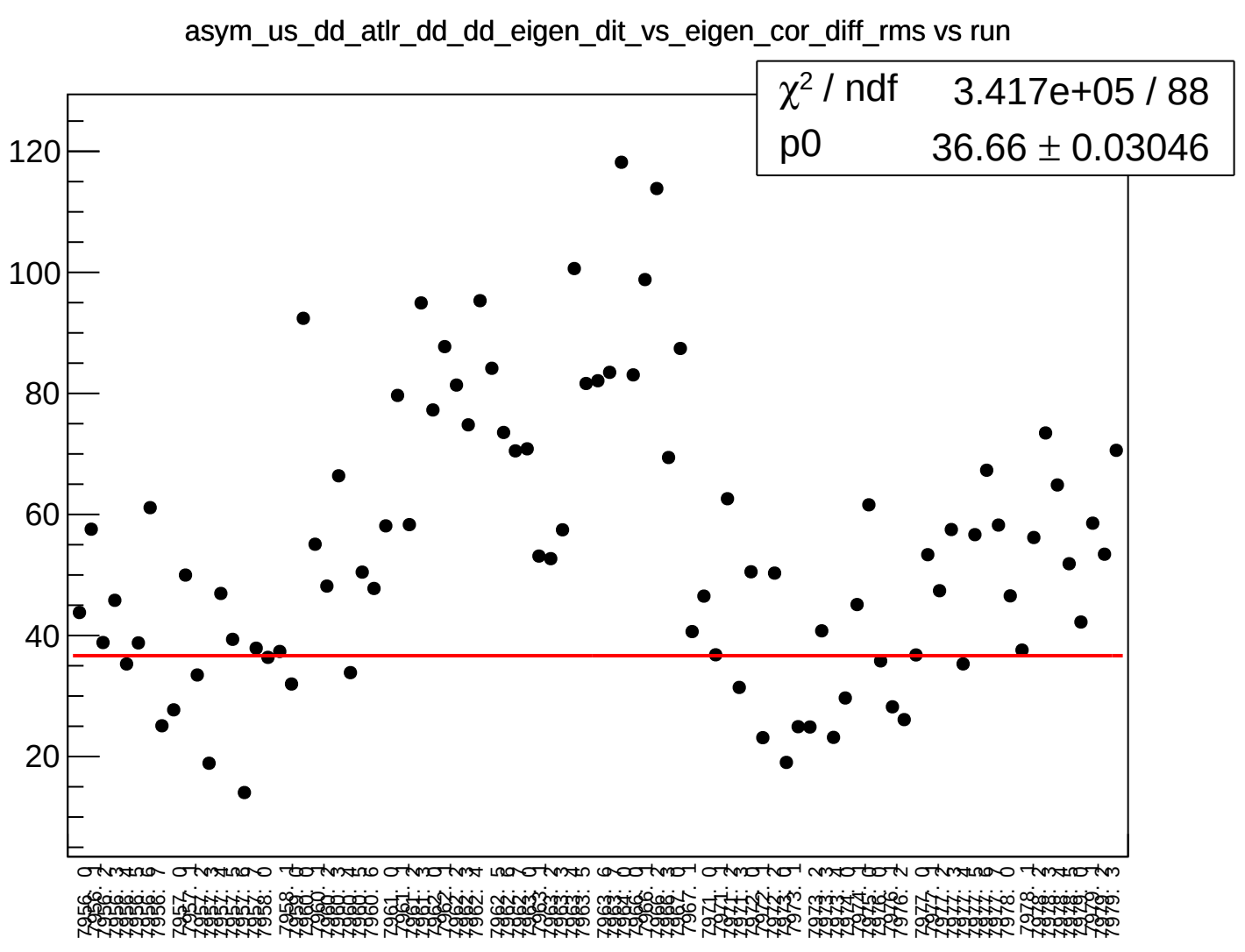

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.555e+05 / 88
p0 0.002182 ± 2.145e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

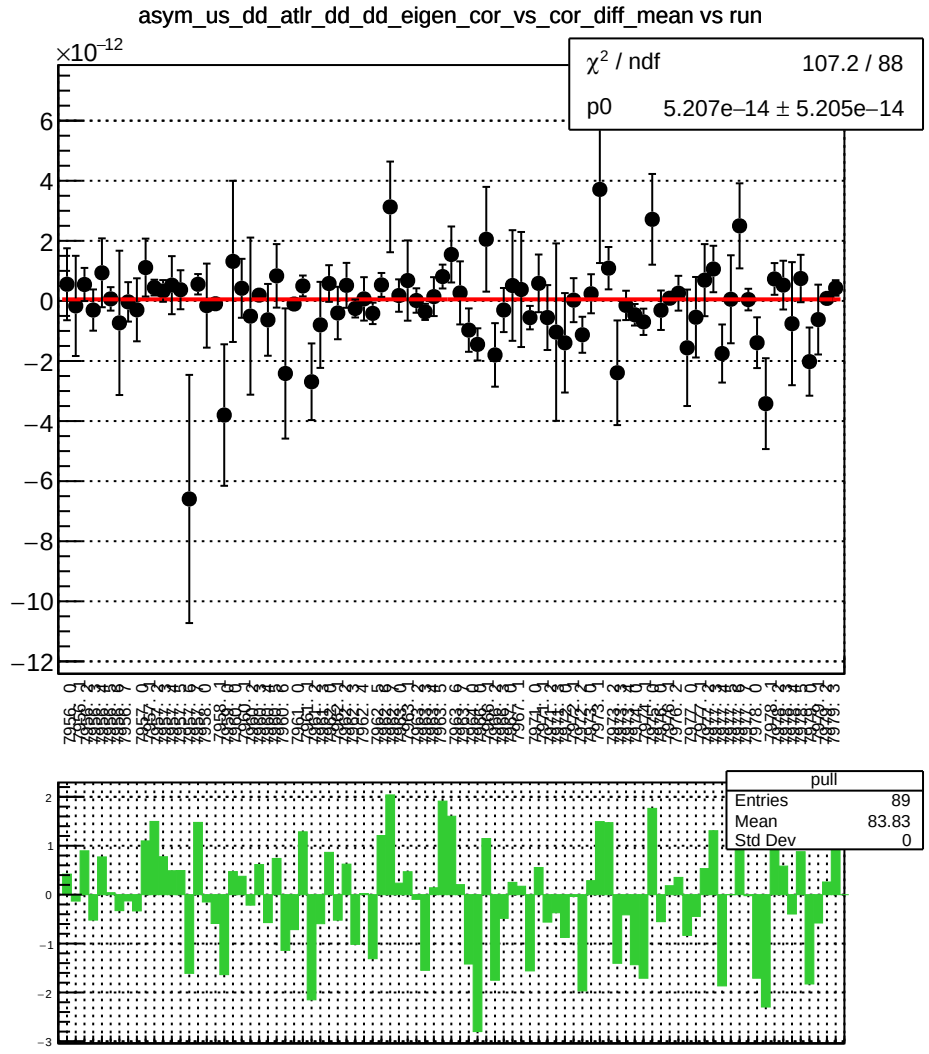

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.7 / 88
p0 −0.05313 ± 0.04308
pull
Entries 89
Mean 117.1
Std Dev 0

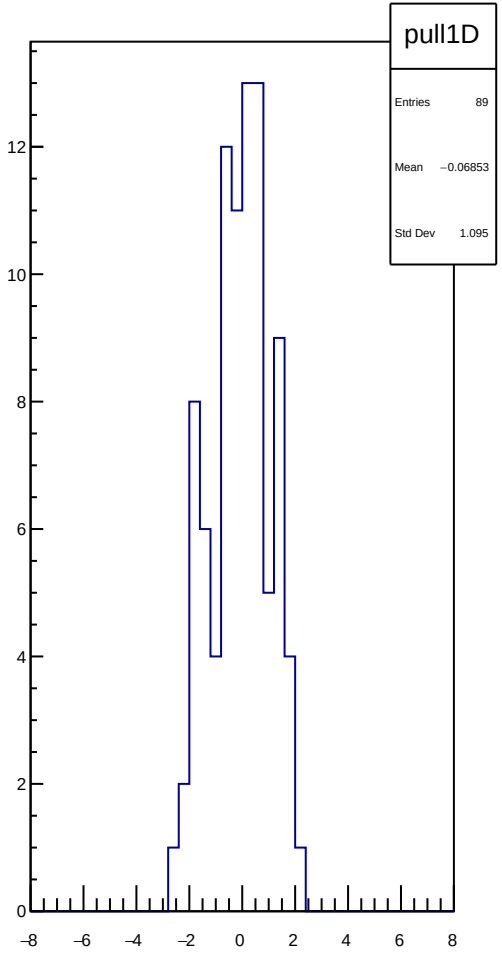

pull1D
Entries 89
Mean −0.05831
Std Dev 1.008

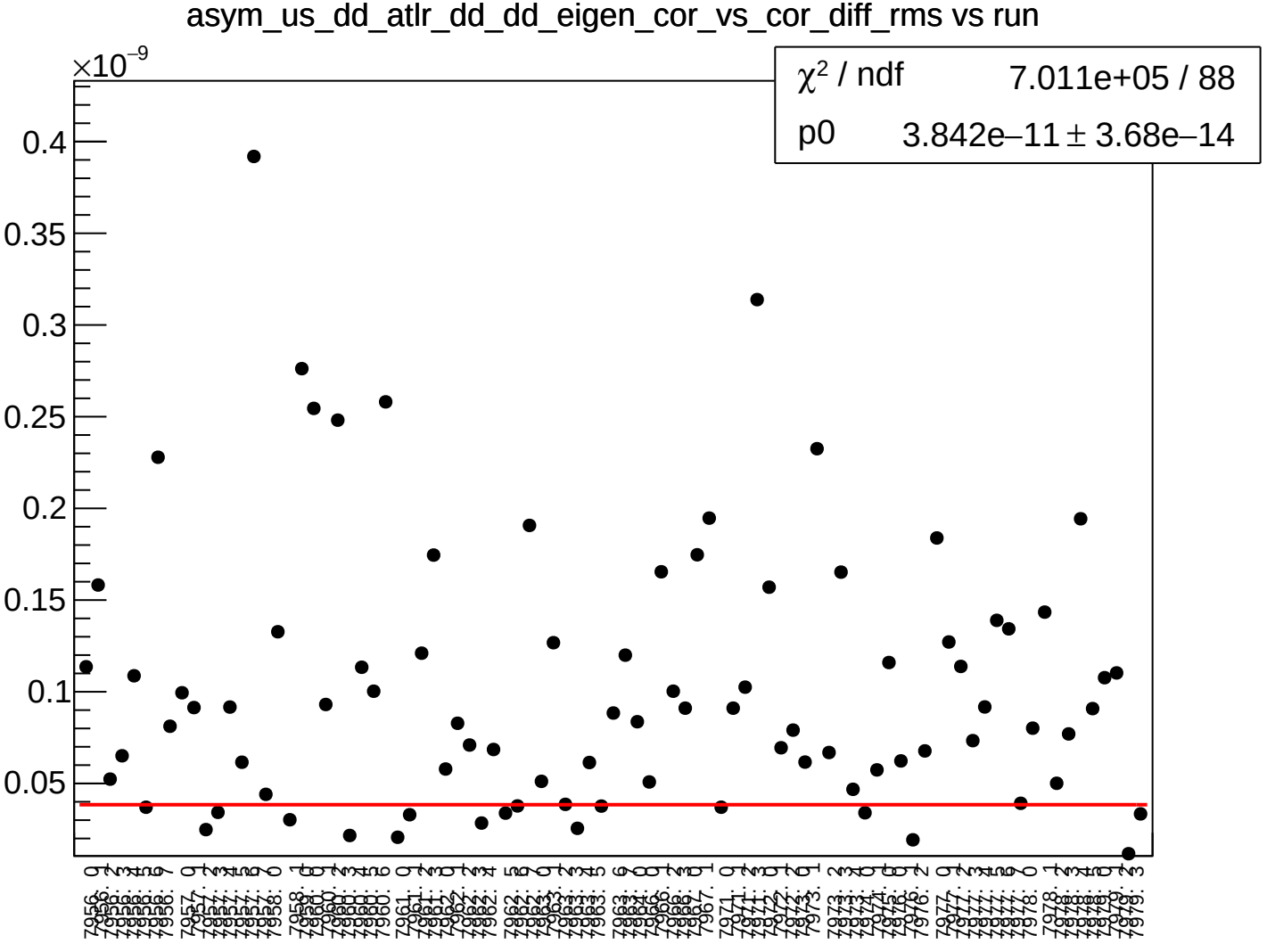

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.417e+05 / 88
p0 36.66 ± 0.03046
120
100
80
60
40
20

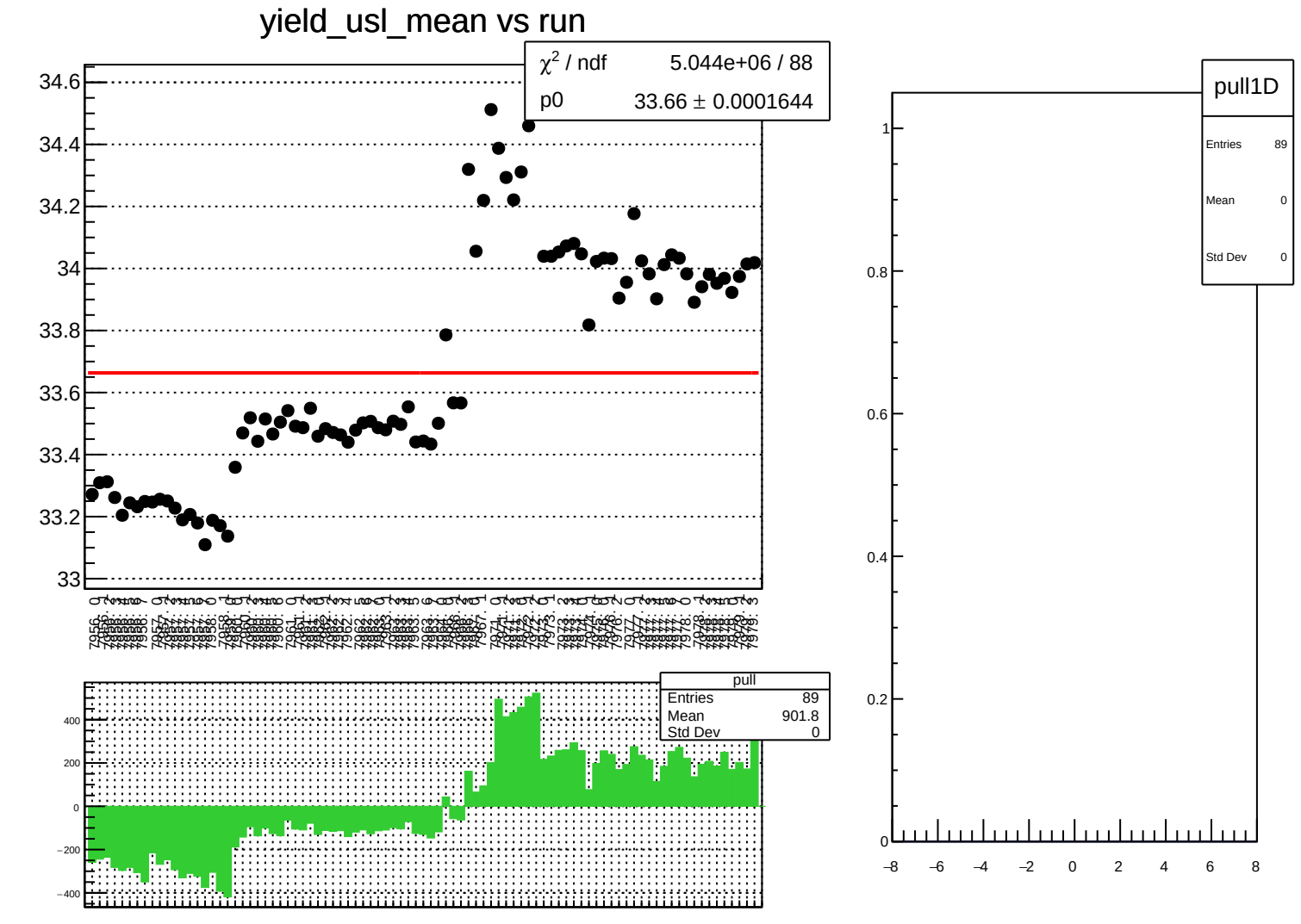

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.7 / 88
p0 −0.05313 ± 0.04308
pull
Entries 89
Mean 117.1
Std Dev 0
pull1D
Entries 89
Mean −0.05831
Std Dev 1.008

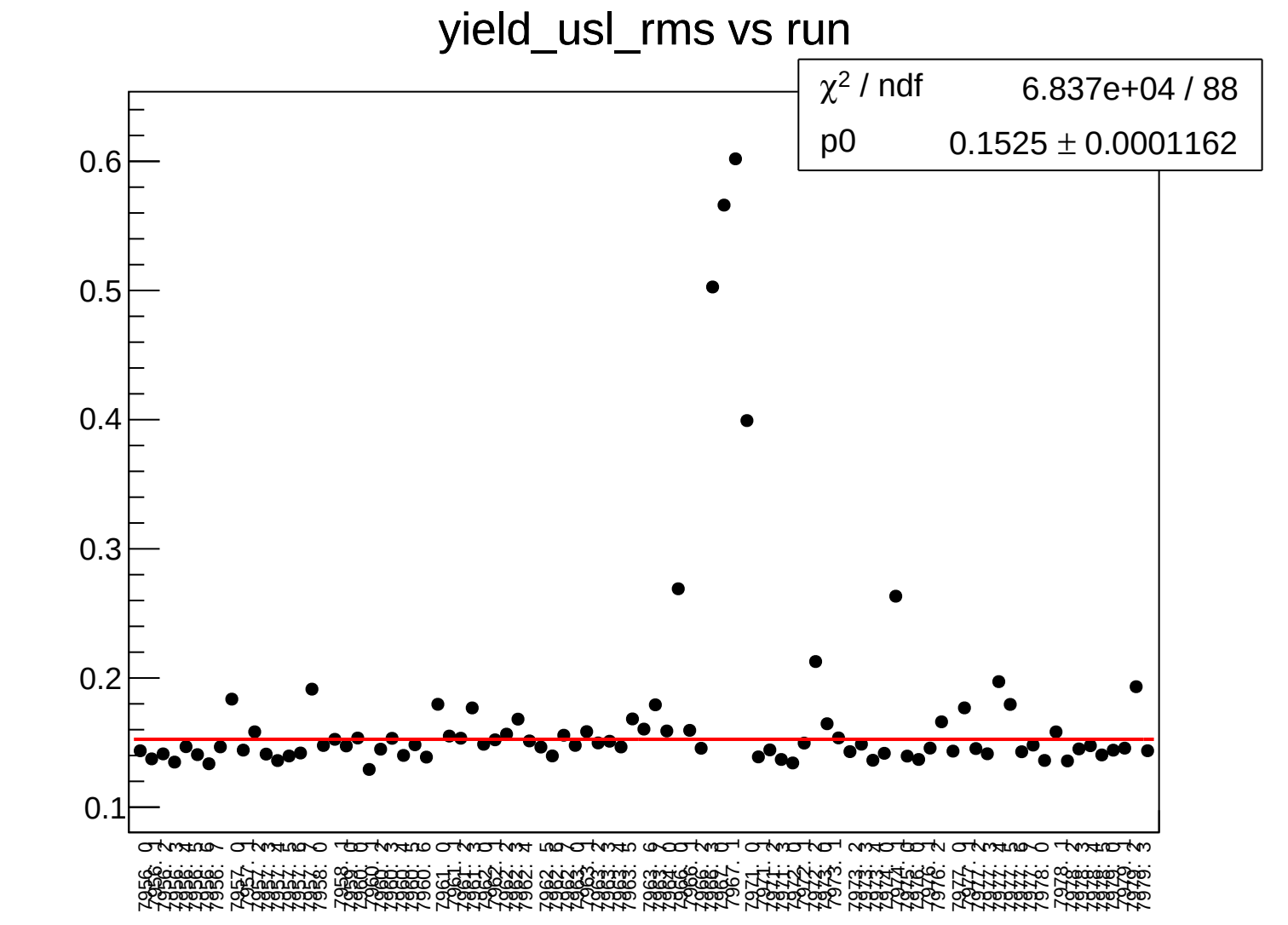

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.417e+05 / 88
p0 36.66 ± 0.03046
120
100
80
60
40
20

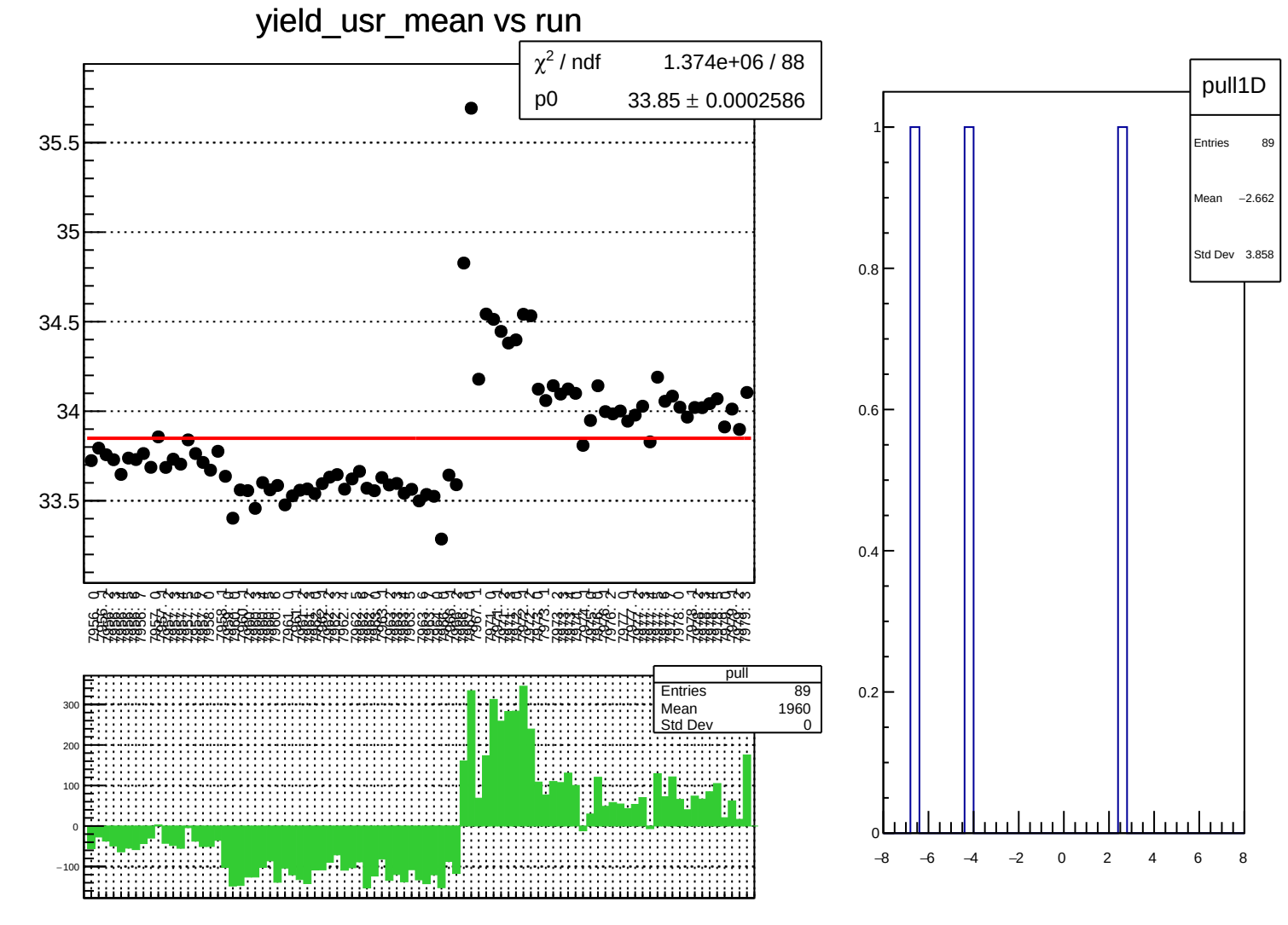

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.2 / 88
p0 5.207e−14 ± 5.205e−14
pull
Entries 89
Mean 83.83
Std Dev 0

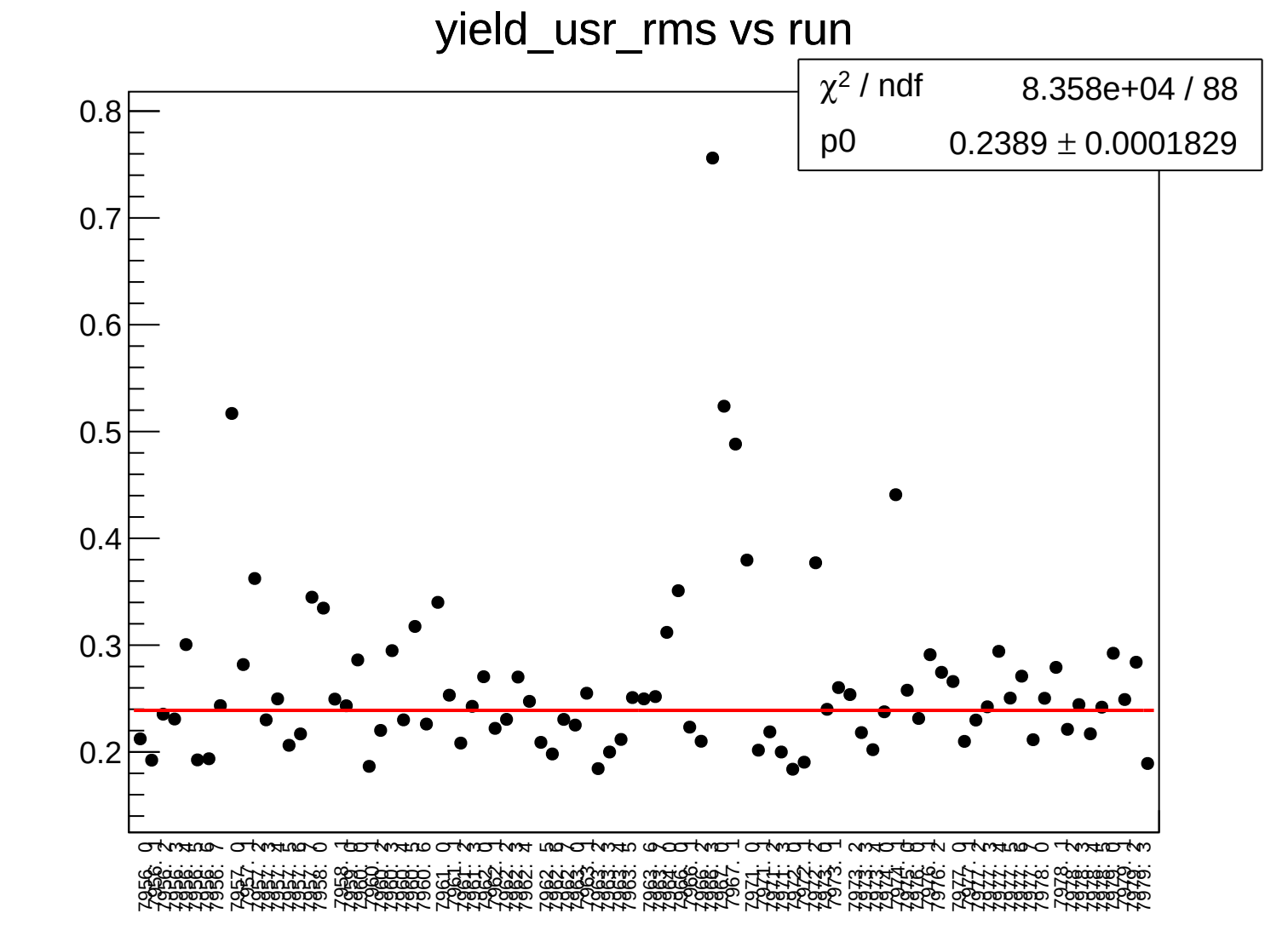

pull1D
Entries 89
Mean −0.06853
Std Dev 1.095

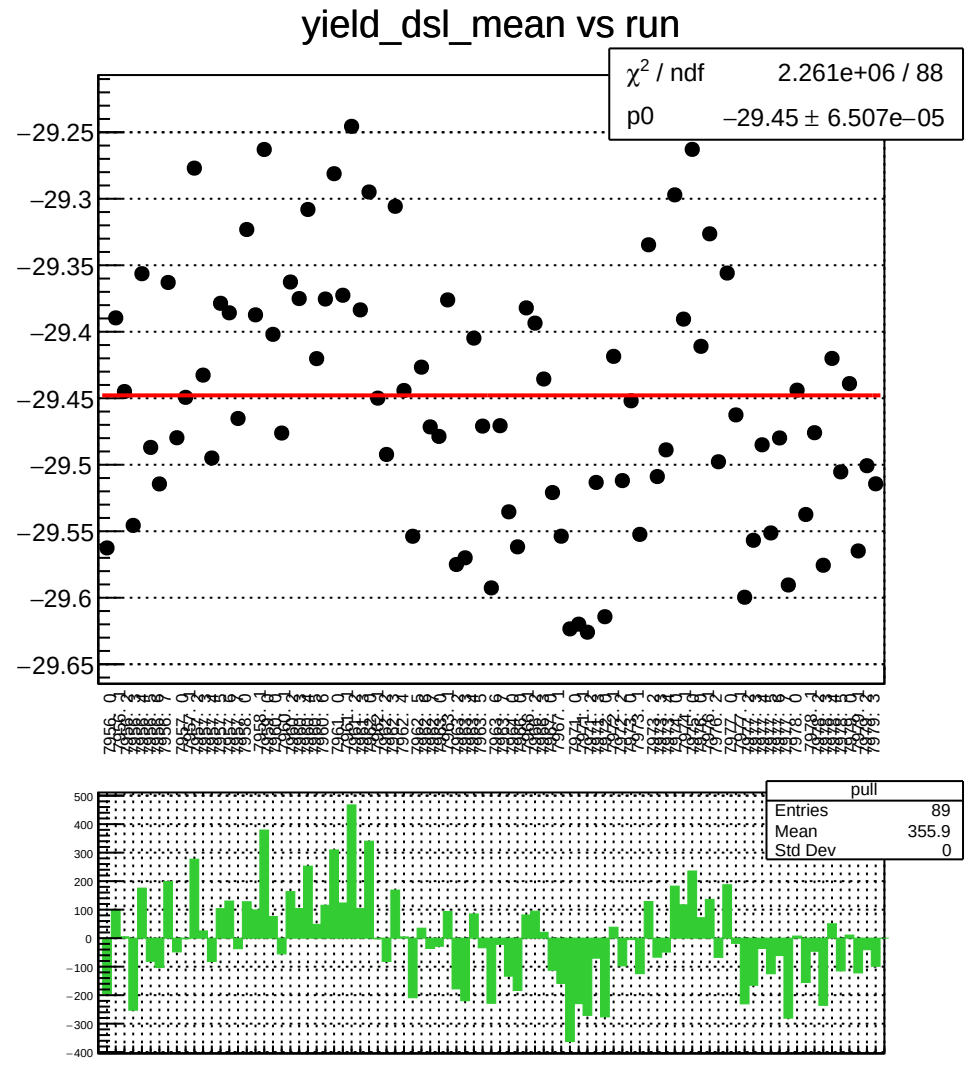

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.011e+05 / 88
p0 3.842e−11 ± 3.68e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

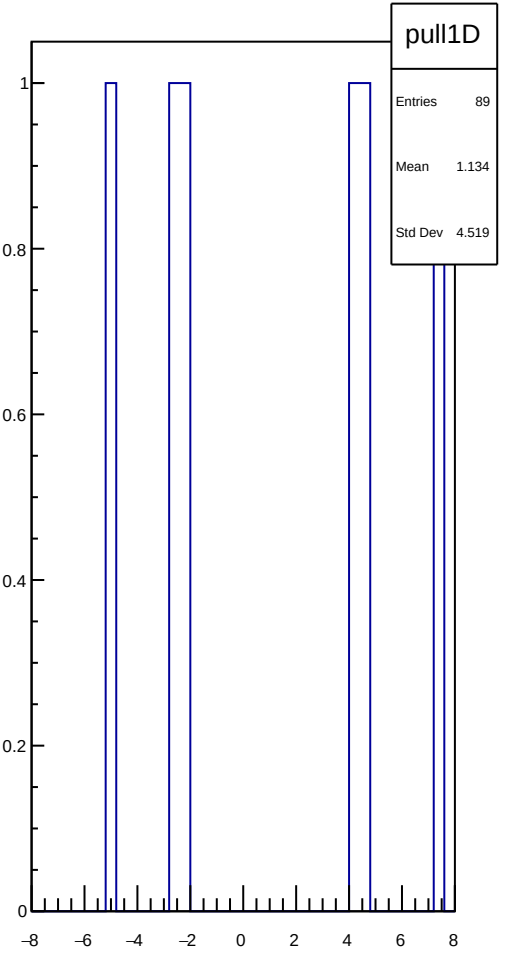

yield_usl_mean vs run
χ² / ndf 5.044e+06 / 88
p0 33.66 ± 0.0001644
34.6
34.4
34.2
34
33.8
33.6
33.4
33.2
33
pull
Entries 89
Mean 901.8
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

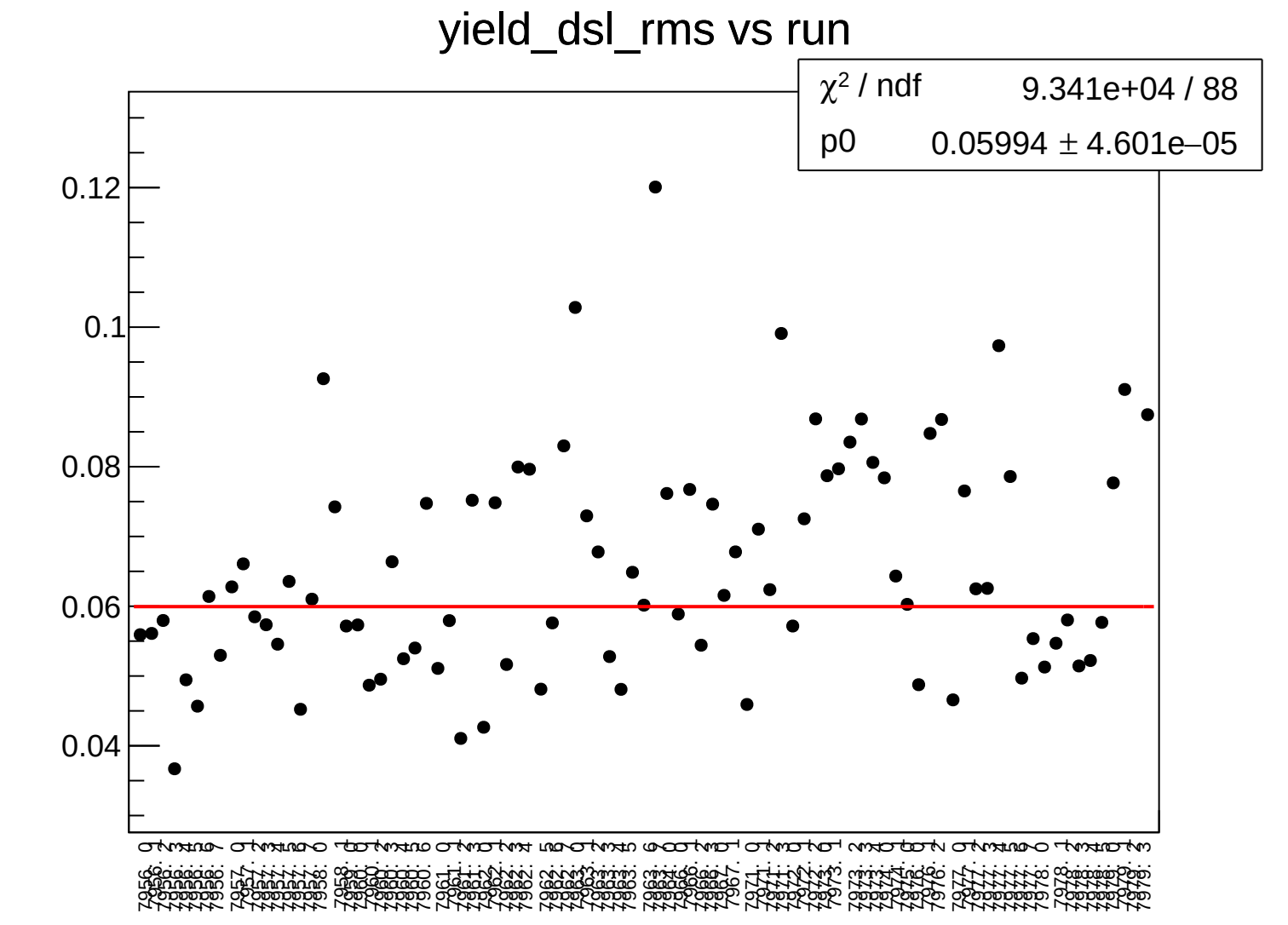

yield_usl_rms vs run
χ² / ndf 6.837e+04 / 88
p0 0.1525 ± 0.0001162
0.6
0.5
0.4
0.3
0.2
0.1

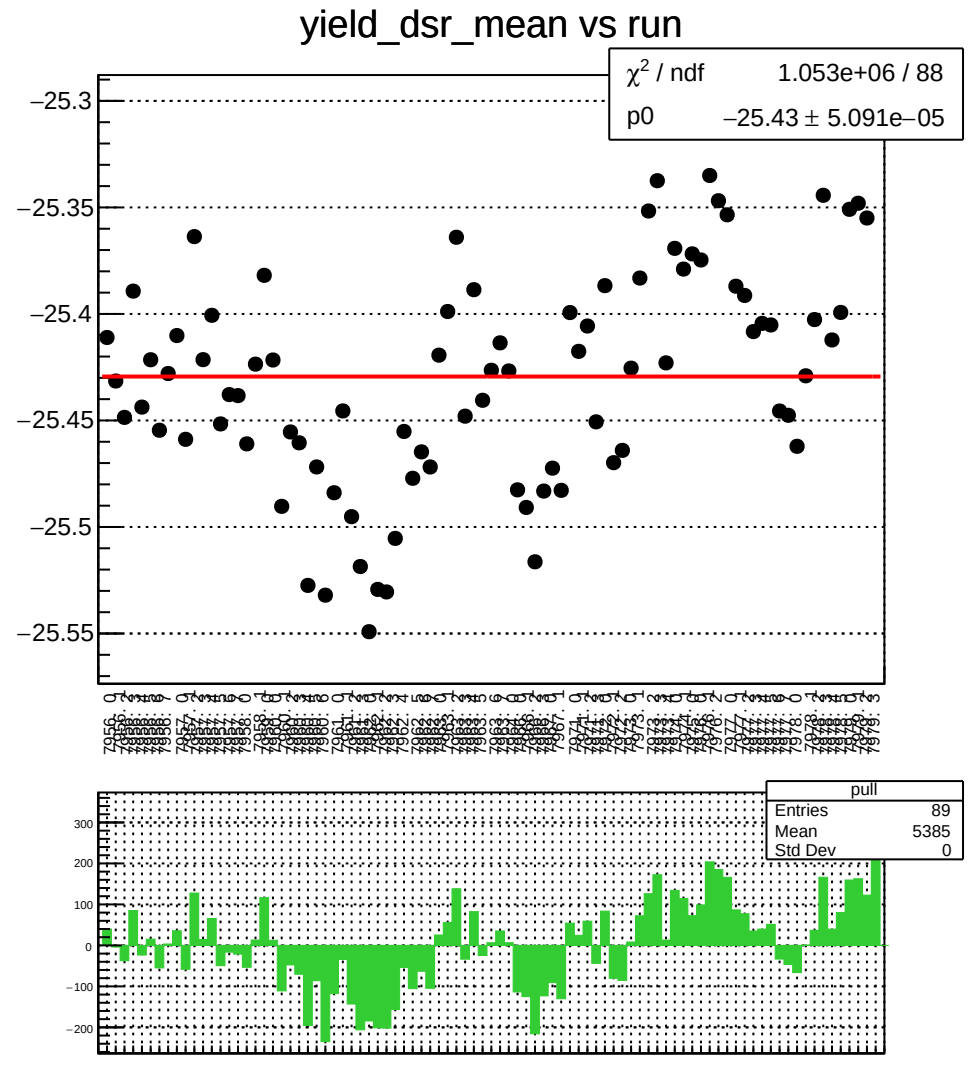

yield_usr_mean vs run
χ² / ndf 1.374e+06 / 88
p0 33.85 ± 0.0002586
35.5
35
34.5
34
33.5
pull
Entries 89
Mean 1960
Std Dev 0
300
200
100
0
−100
pull1D
Entries 89
Mean −2.662
Std Dev 3.858
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

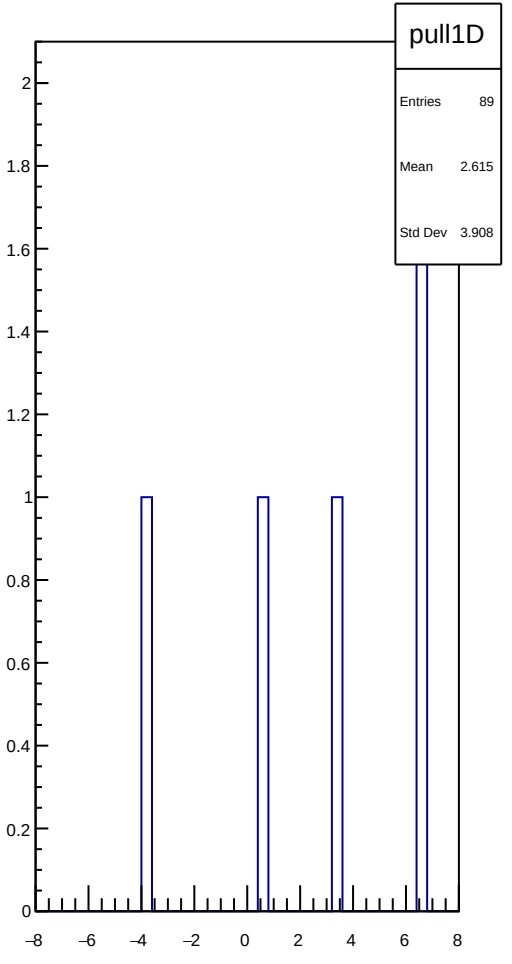

yield_usr_rms vs run
χ² / ndf 8.358e+04 / 88
p0 0.2389 ± 0.0001829
0.8
0.7
0.6
0.5
0.4
0.3
0.2

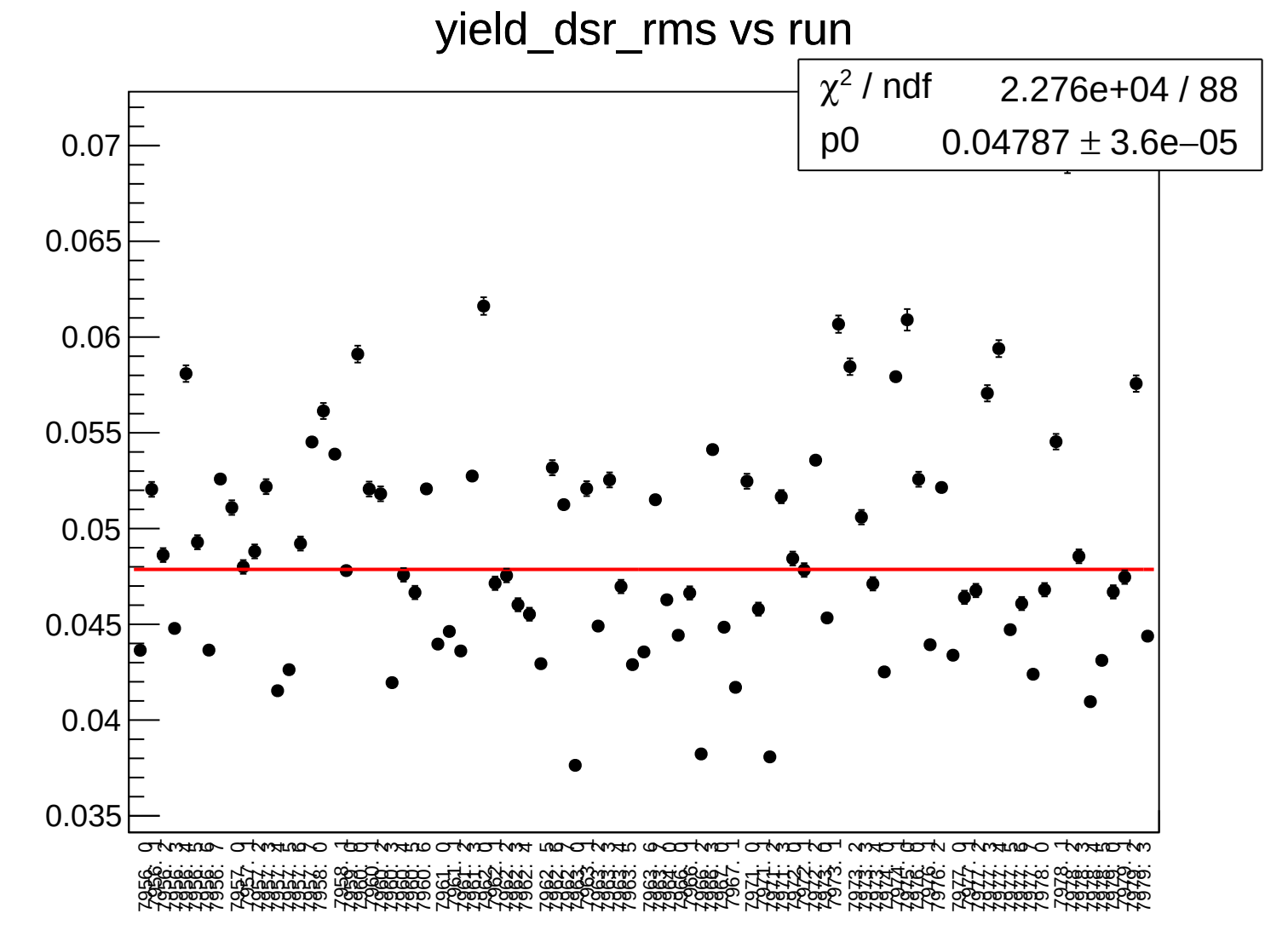

yield_dsl_mean vs run
χ² / ndf 2.261e+06 / 88
p0 −29.45 ± 6.507e−05
−29.25
−29.3
−29.35
−29.4
−29.45
−29.5
−29.55
−29.6
−29.65
pull
Entries 89
Mean 355.9
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

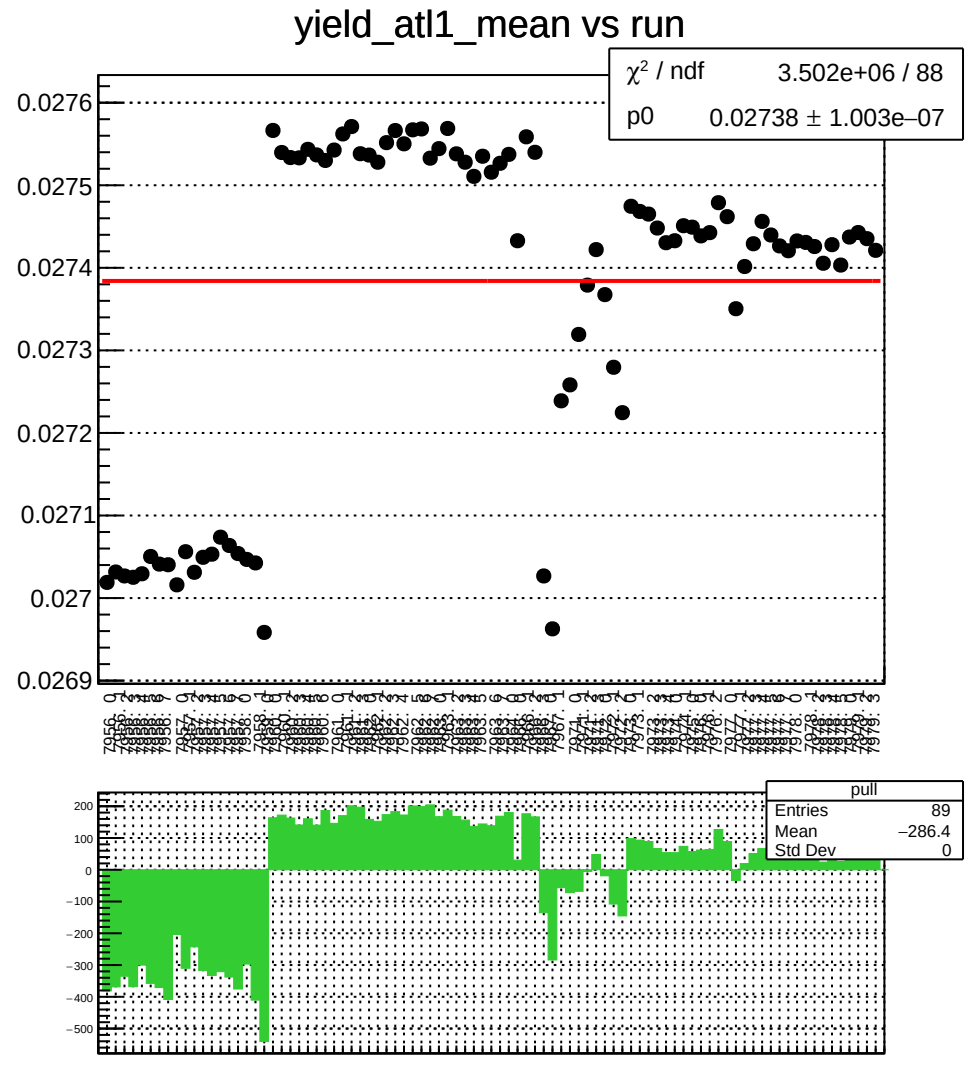

pull1D
Entries 89
Mean 1.134
Std Dev 4.519
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

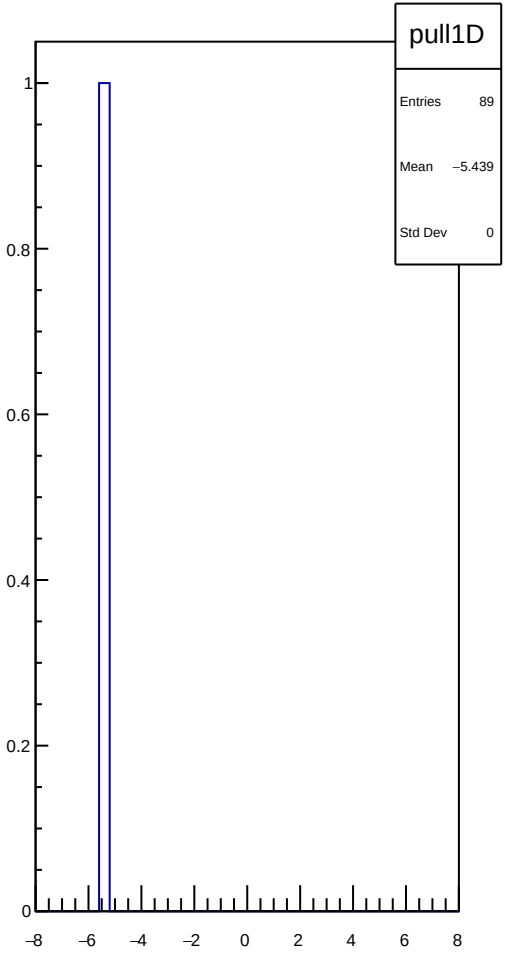

yield_dsl_rms vs run
χ² / ndf 9.341e+04 / 88
p0 0.05994 ± 4.601e−05
0.12
0.1
0.08
0.06
0.04

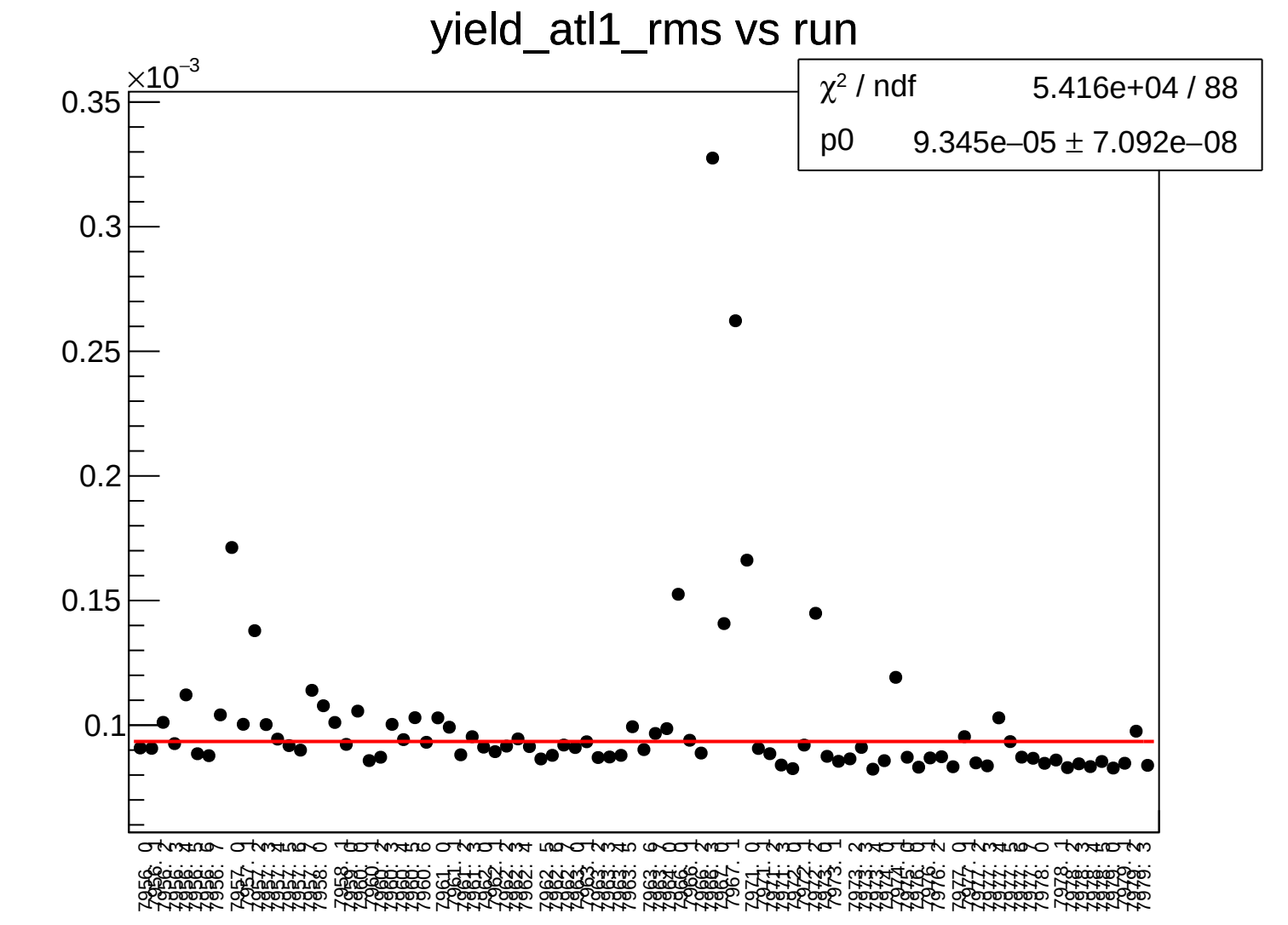

yield_dsr_mean vs run
χ² / ndf 1.053e+06 / 88
p0 −25.43 ± 5.091e−05
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
pull
Entries 89
Mean 5385
Std Dev 0
300
200
100
0
−100
−200

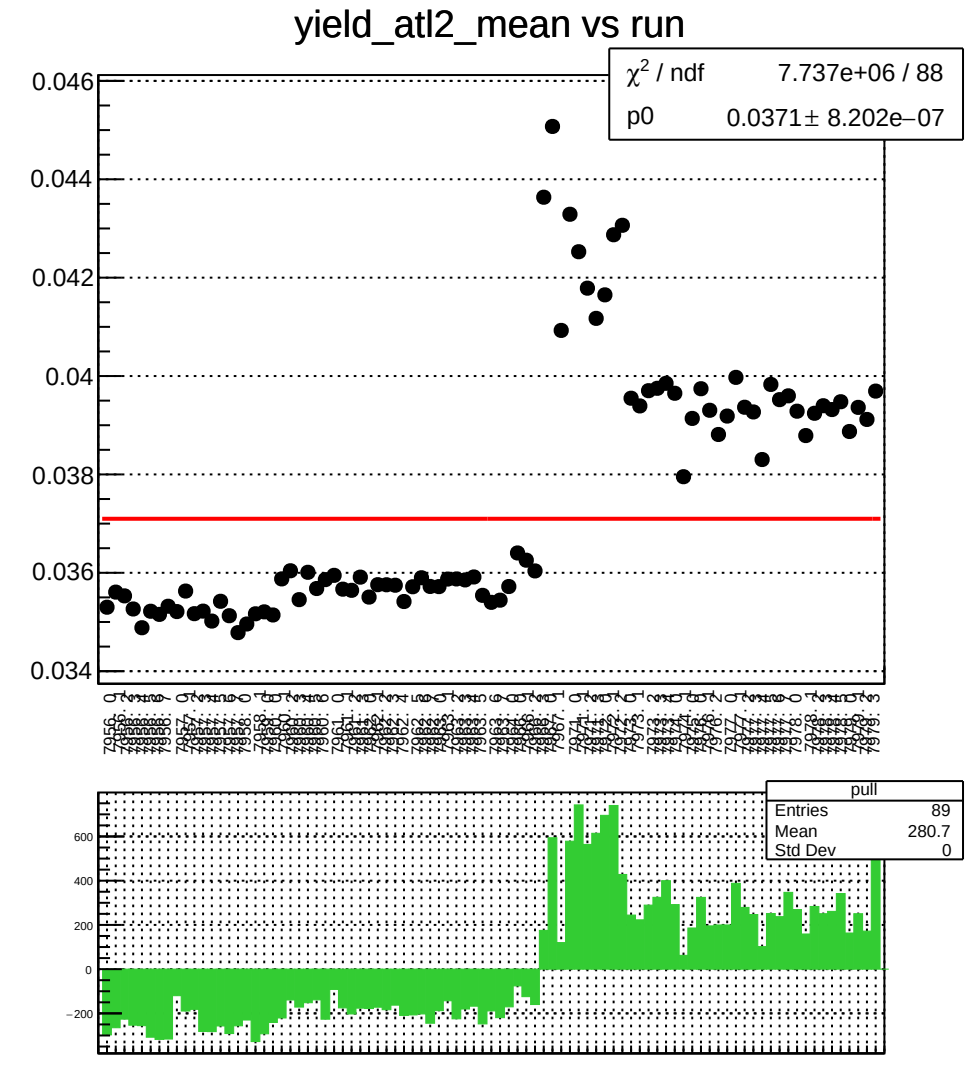

pull1D
Entries 89
Mean 2.615
Std Dev 3.908
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

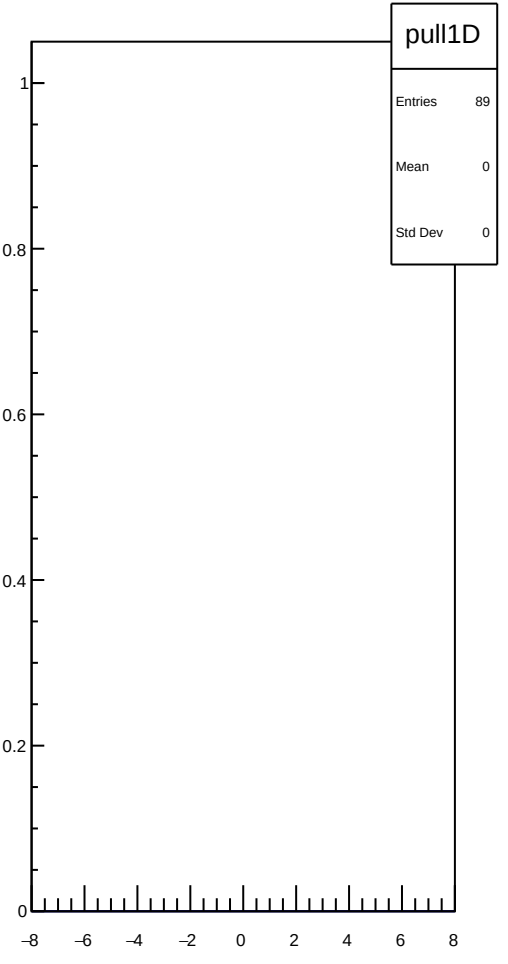

yield_dsr_rms vs run
χ² / ndf 2.276e+04 / 88
p0 0.04787 ± 3.6e−05
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035

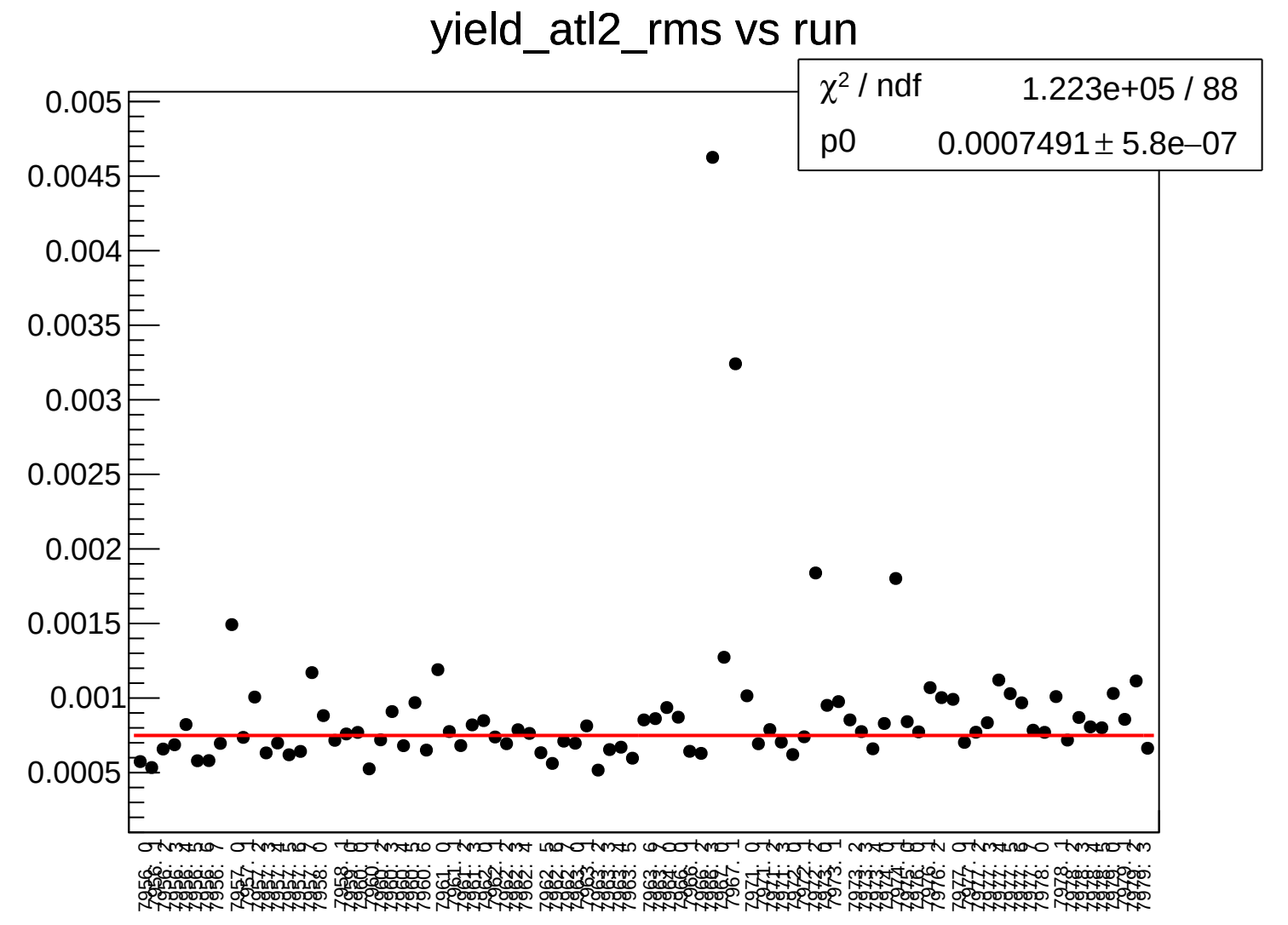

yield_atl1_mean vs run
χ² / ndf 3.502e+06 / 88
p0 0.02738 ± 1.003e−07
0.0276
0.0275
0.0274
0.0273
0.0272
0.0271
0.027
0.0269
pull
Entries 89
Mean −286.4
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

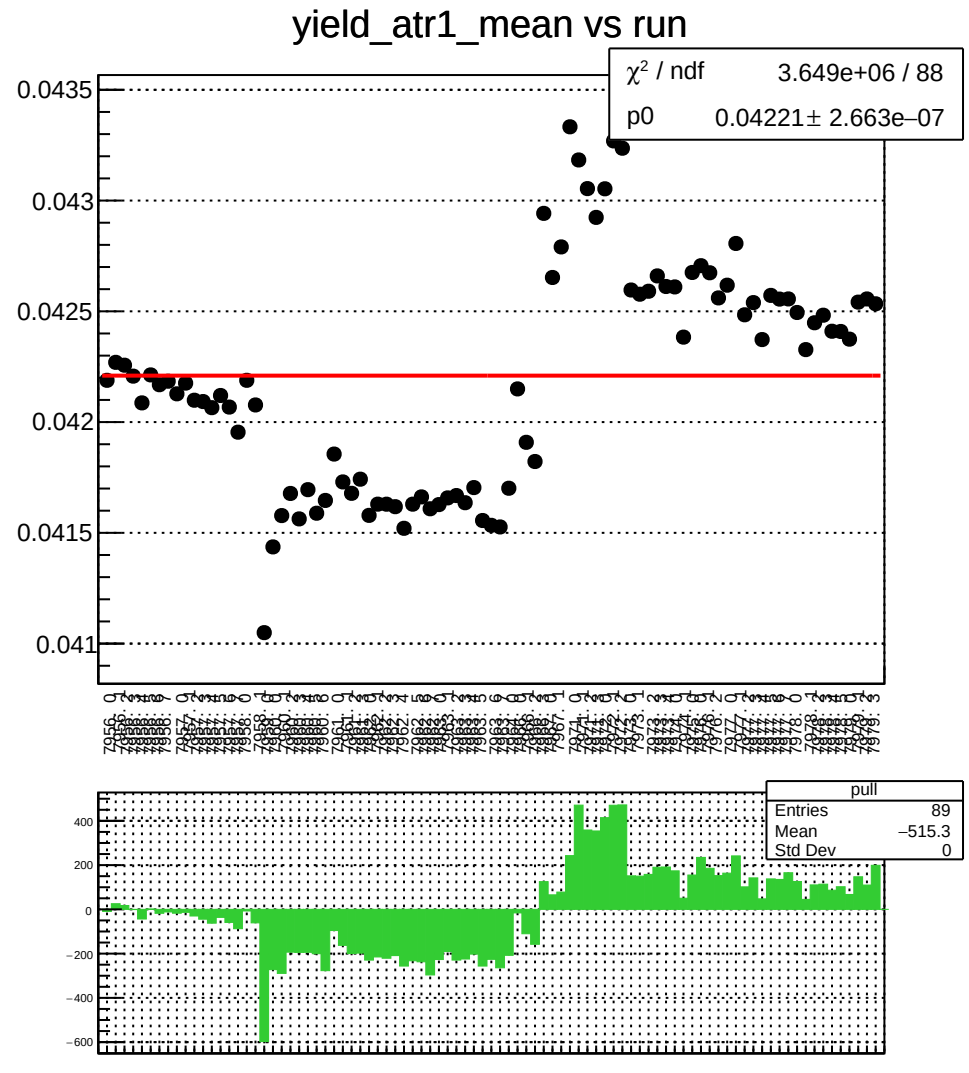

pull1D
Entries 89
Mean −5.439
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

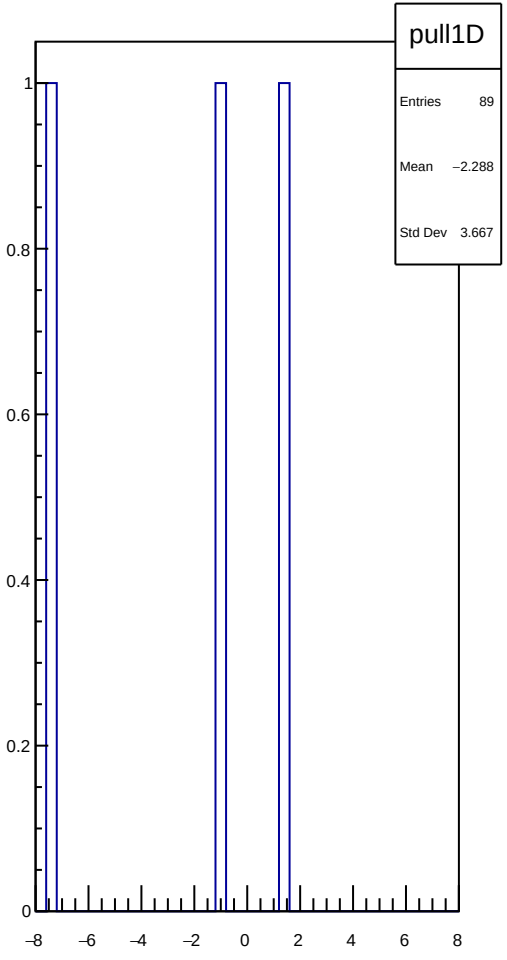

yield_atl1_rms vs run
×10⁻³
0.35
0.3
0.25
0.2
0.15
0.1
χ² / ndf 5.416e+04 / 88
p0 9.345e−05 ± 7.092e−08

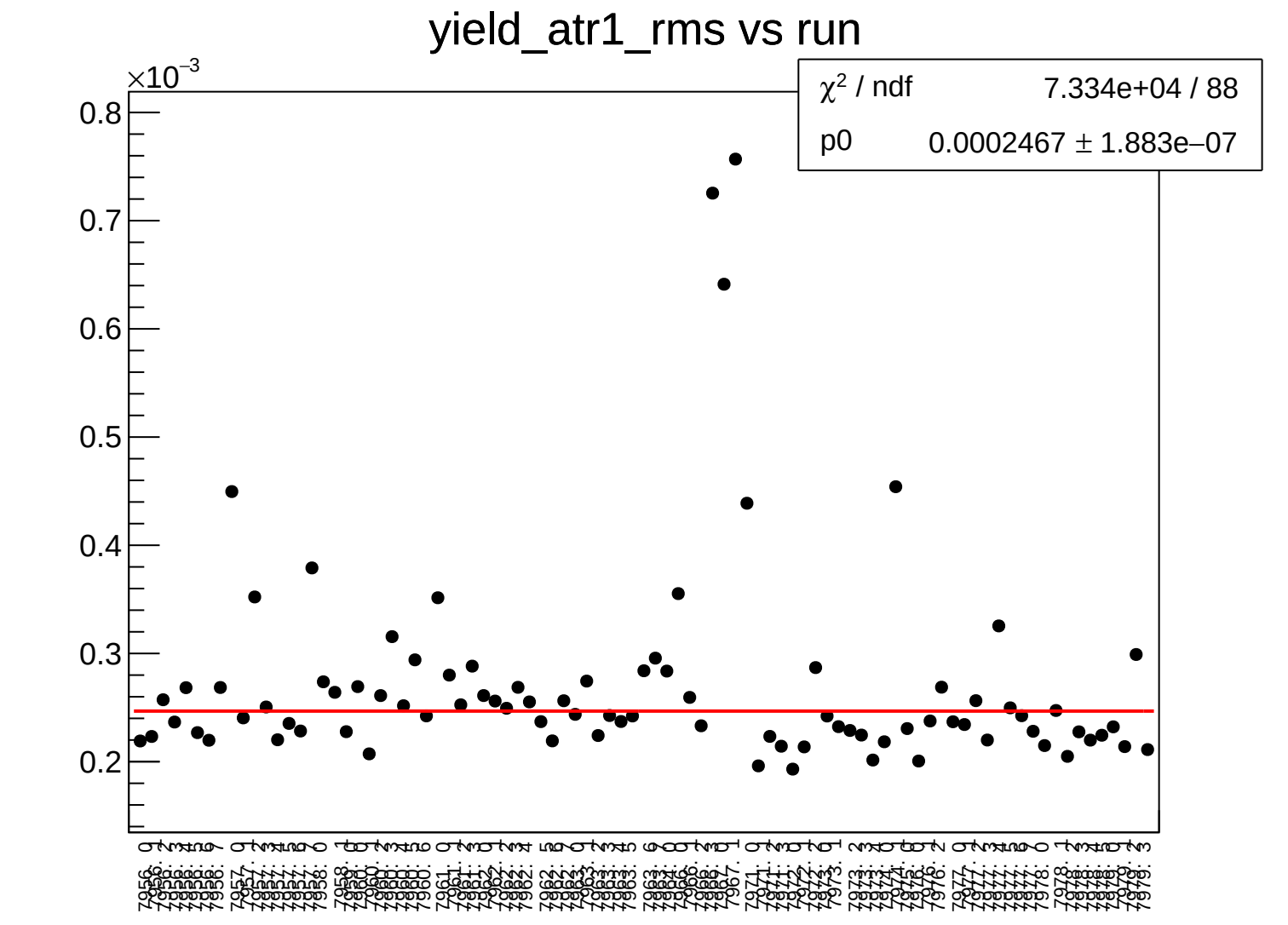

yield_atl2_mean vs run
χ² / ndf 7.737e+06 / 88
p0 0.0371 ± 8.202e−07
0.046
0.044
0.042
0.04
0.038
0.036
0.034
pull
Entries 89
Mean 280.7
Std Dev 0
600
400
200
0
−200

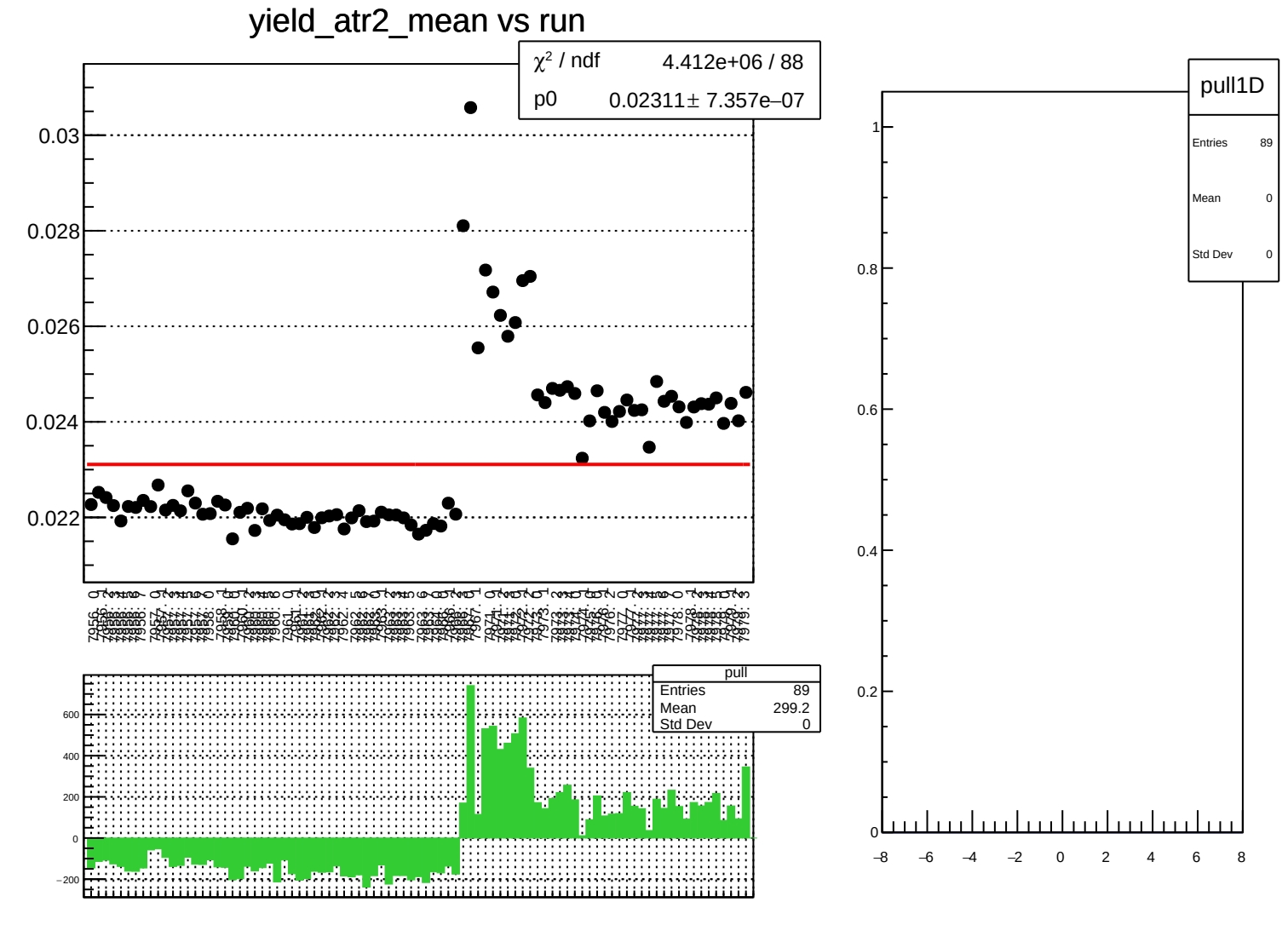

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

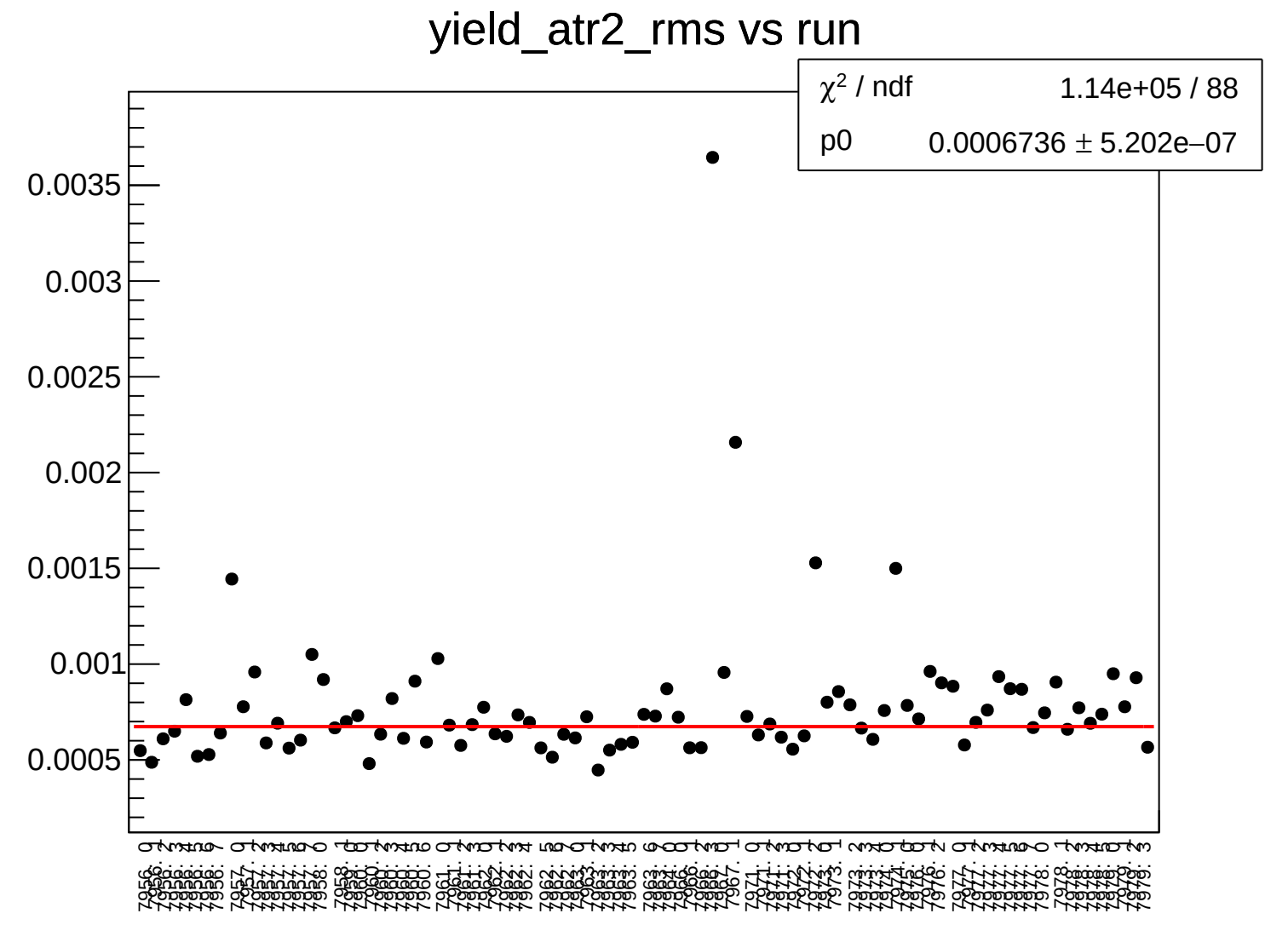

yield_atl2_rms vs run
χ² / ndf 1.223e+05 / 88
p0 0.0007491 ± 5.8e–07
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

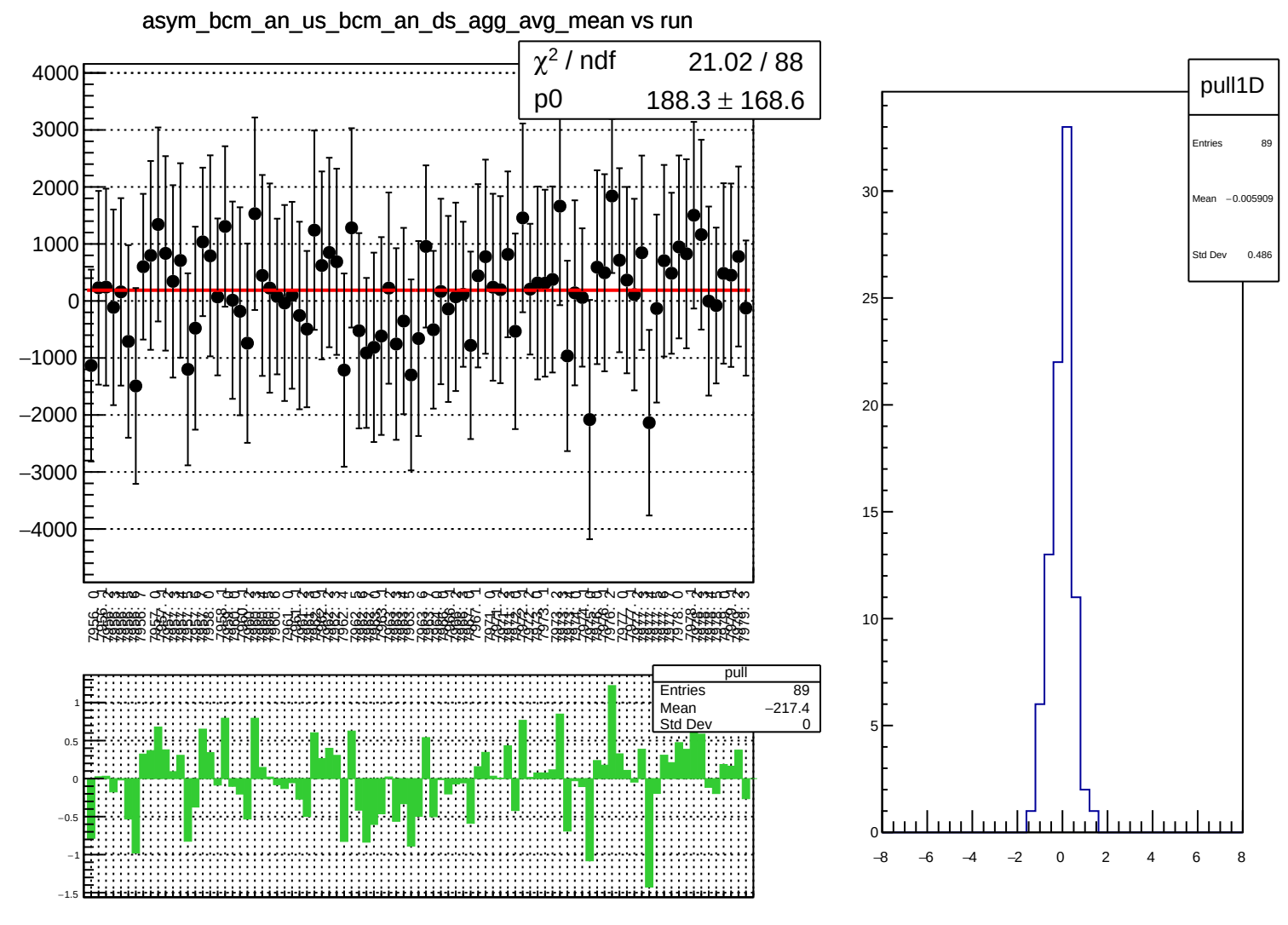

yield_atr1_mean vs run
χ² / ndf 3.649e+06 / 88
p0 0.04221± 2.663e–07
0.0435
0.043
0.0425
0.042
0.0415
0.041
pull
Entries 89
Mean –515.3
Std Dev 0
400
200
0
–200
–400
–600

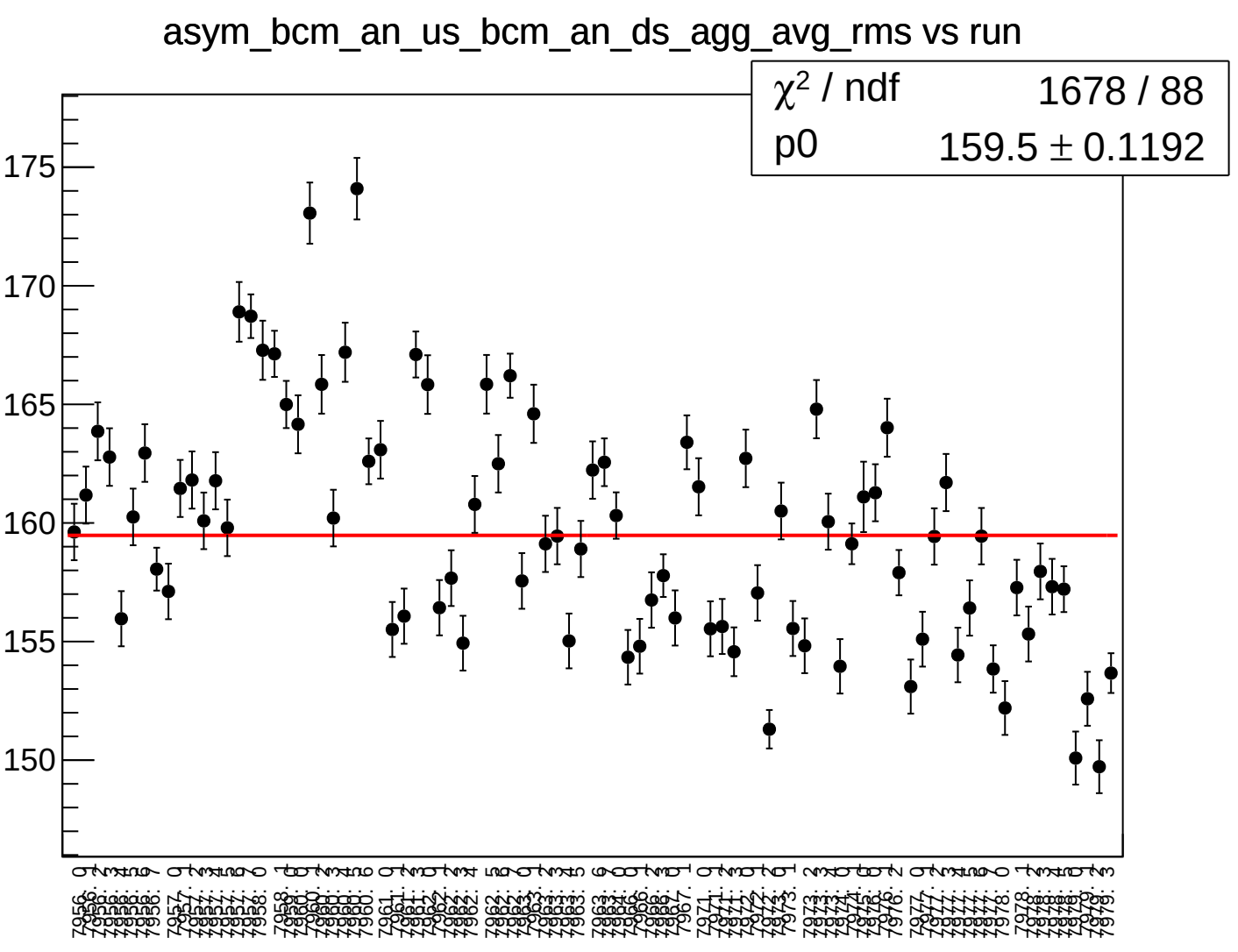

pull1D
Entries 89
Mean –2.288
Std Dev 3.667
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

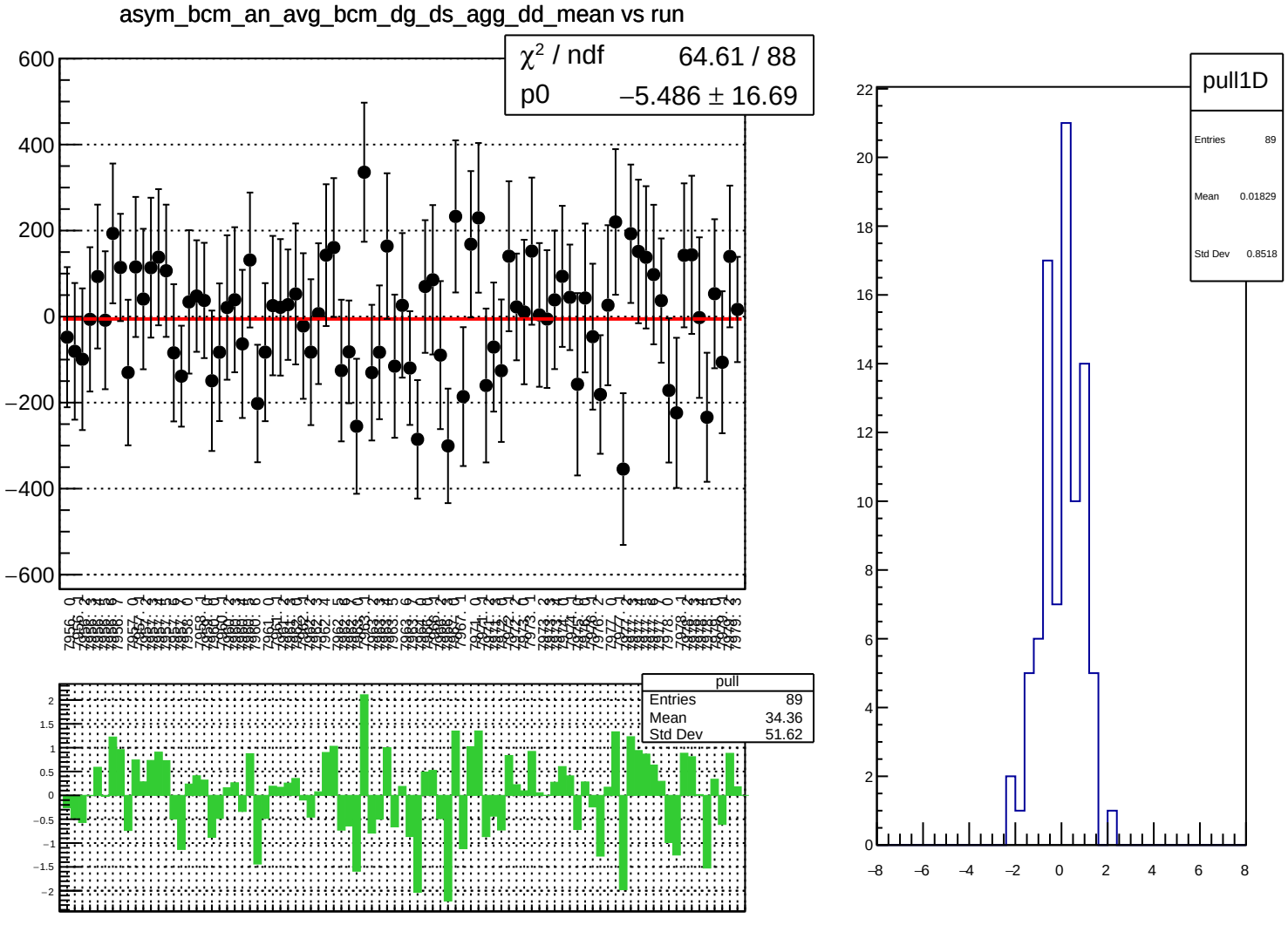

yield_atr1_rms vs run
×10⁻³
χ² / ndf 7.334e+04 / 88
p0 0.0002467 ± 1.883e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2

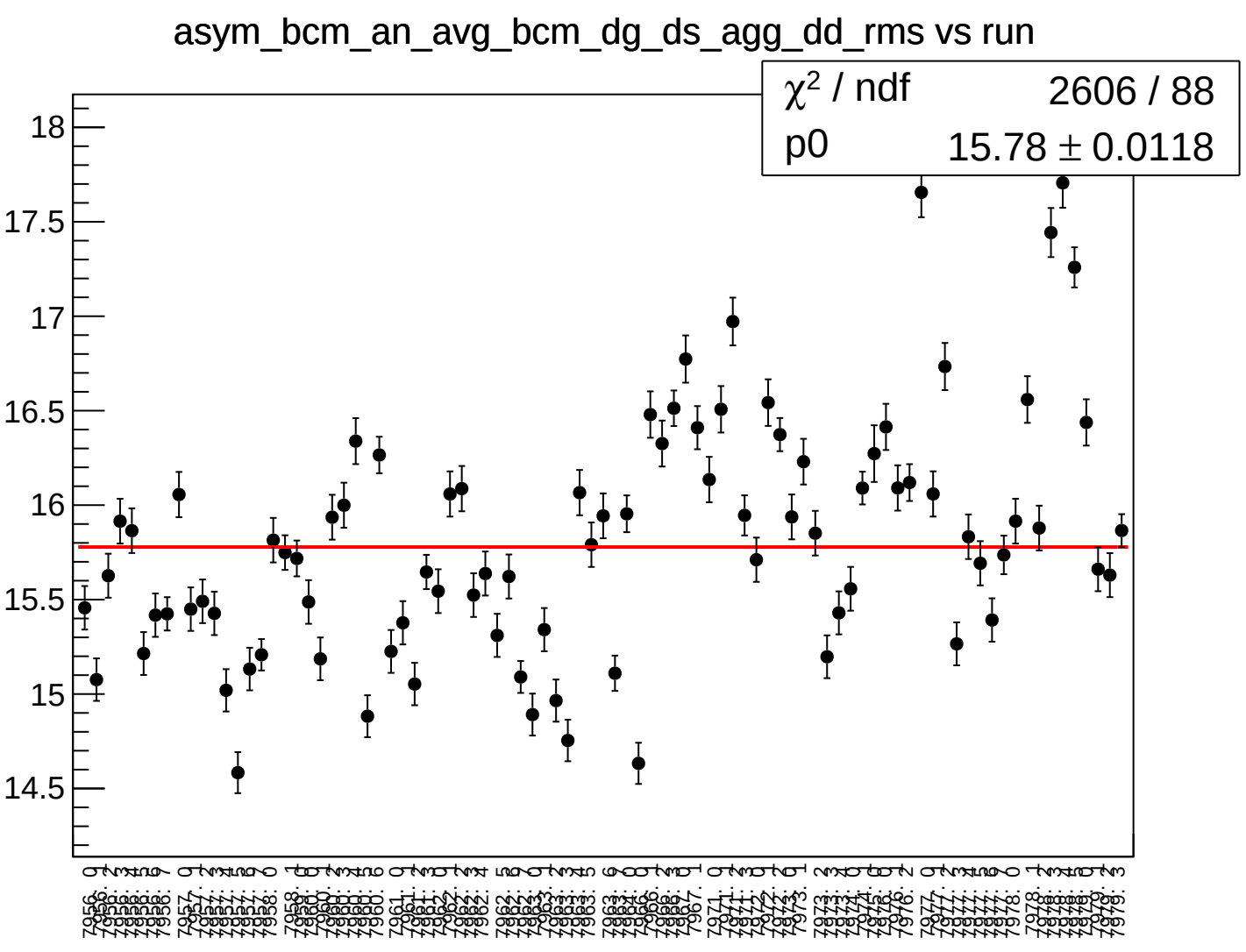

yield_atr2_mean vs run
χ² / ndf 4.412e+06 / 88
p0 0.02311± 7.357e–07
0.03
0.028
0.026
0.024
0.022
pull
Entries 89
Mean 299.2
Std Dev 0
600
400
200
0
−200
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

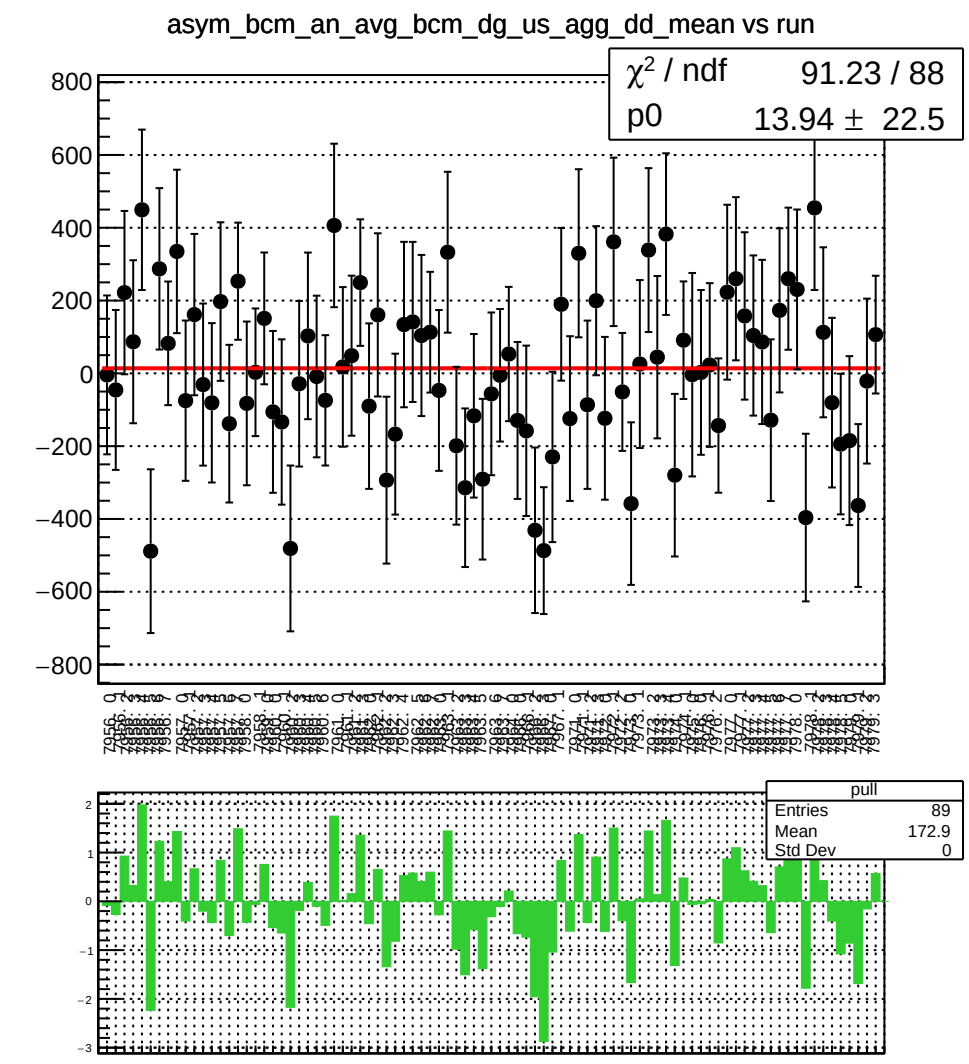

yield_atr2_rms vs run
χ² / ndf 1.14e+05 / 88
p0 0.0006736 ± 5.202e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

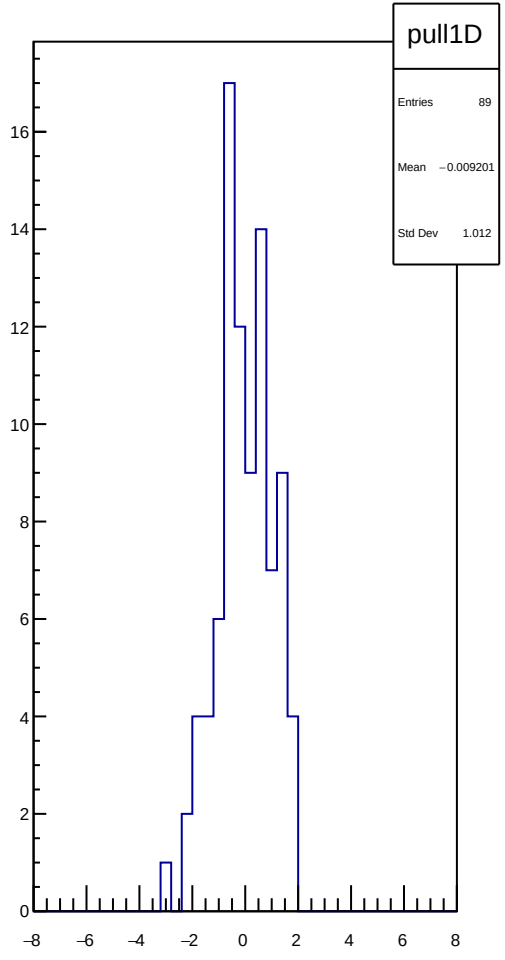

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.02 / 88
p0 188.3 ± 168.6
pull
Entries 89
Mean −217.4
Std Dev 0
pull1D
Entries 89
Mean −0.005909
Std Dev 0.486

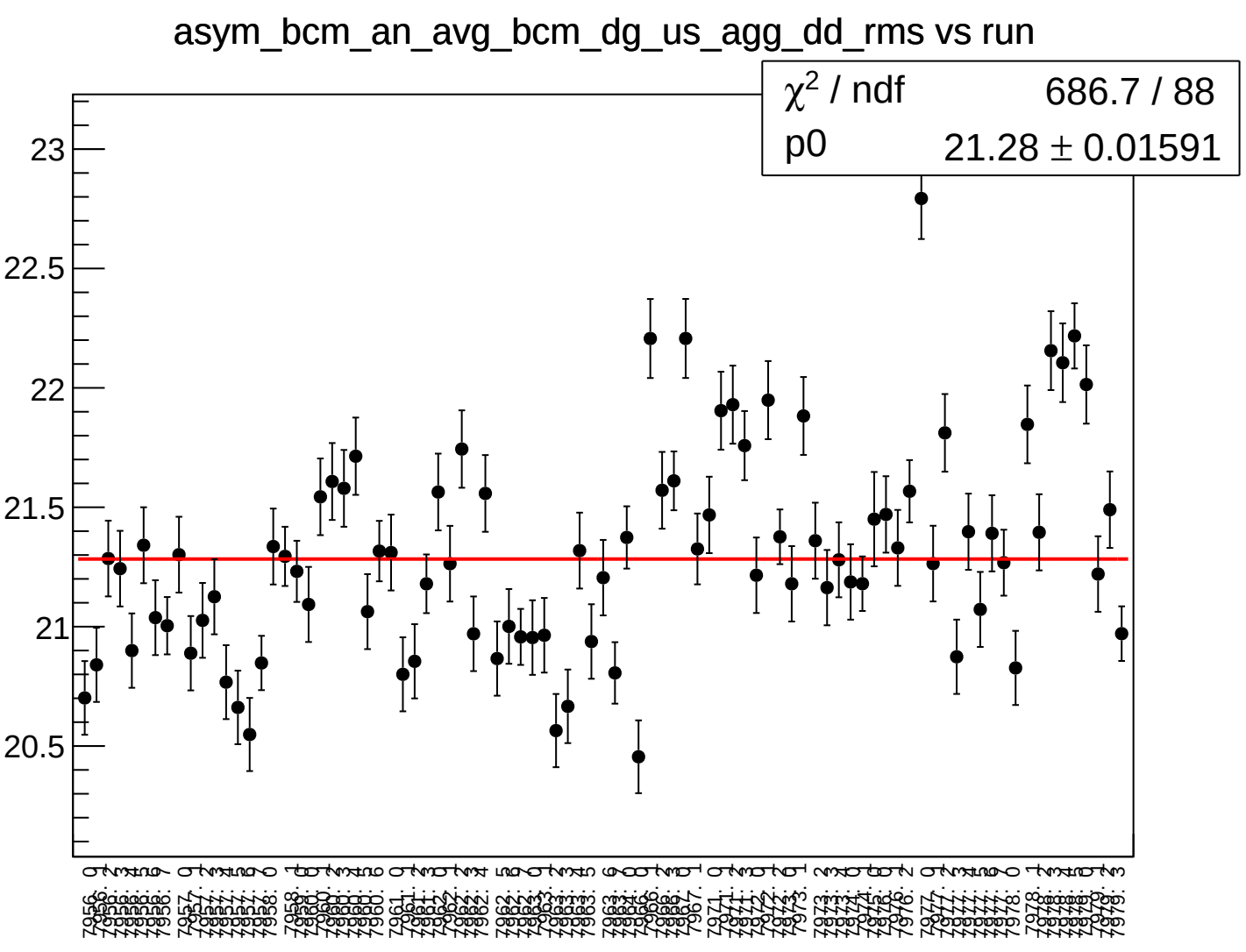

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1678 / 88
p0 159.5 ± 0.1192
175
170
165
160
155
150

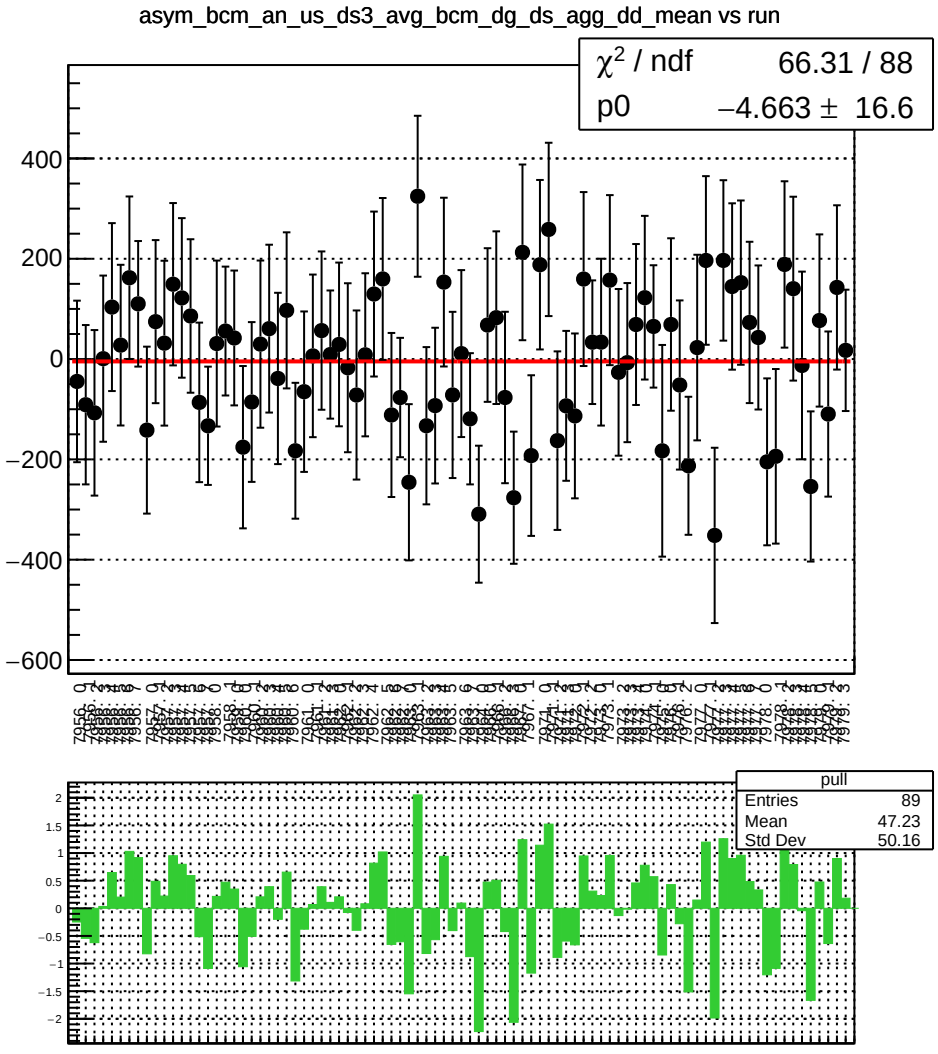

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 64.61 / 88
p0 −5.486 ± 16.69
pull
Entries 89
Mean 34.36
Std Dev 51.62
pull1D
Entries 89
Mean 0.01829
Std Dev 0.8518

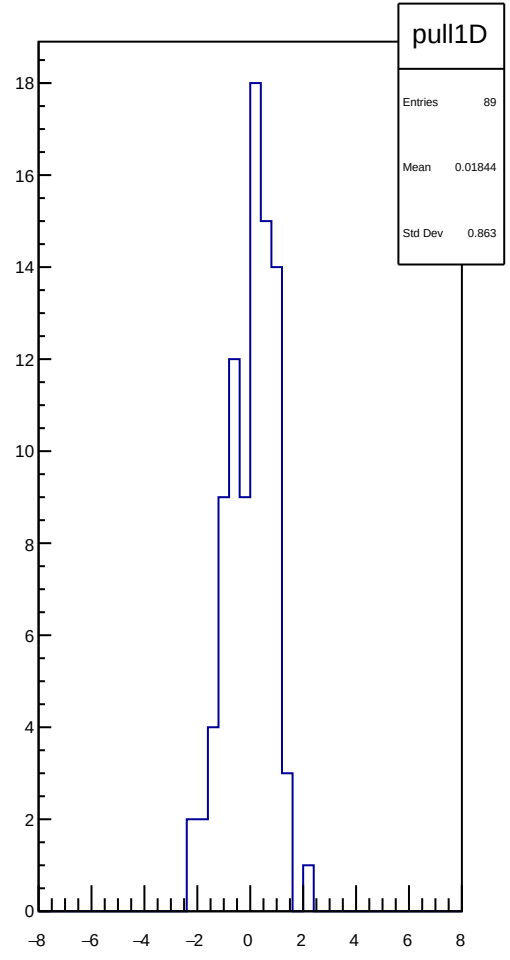

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2606 / 88
p0 15.78 ± 0.0118
18
17.5
17
16.5
16
15.5
15
14.5

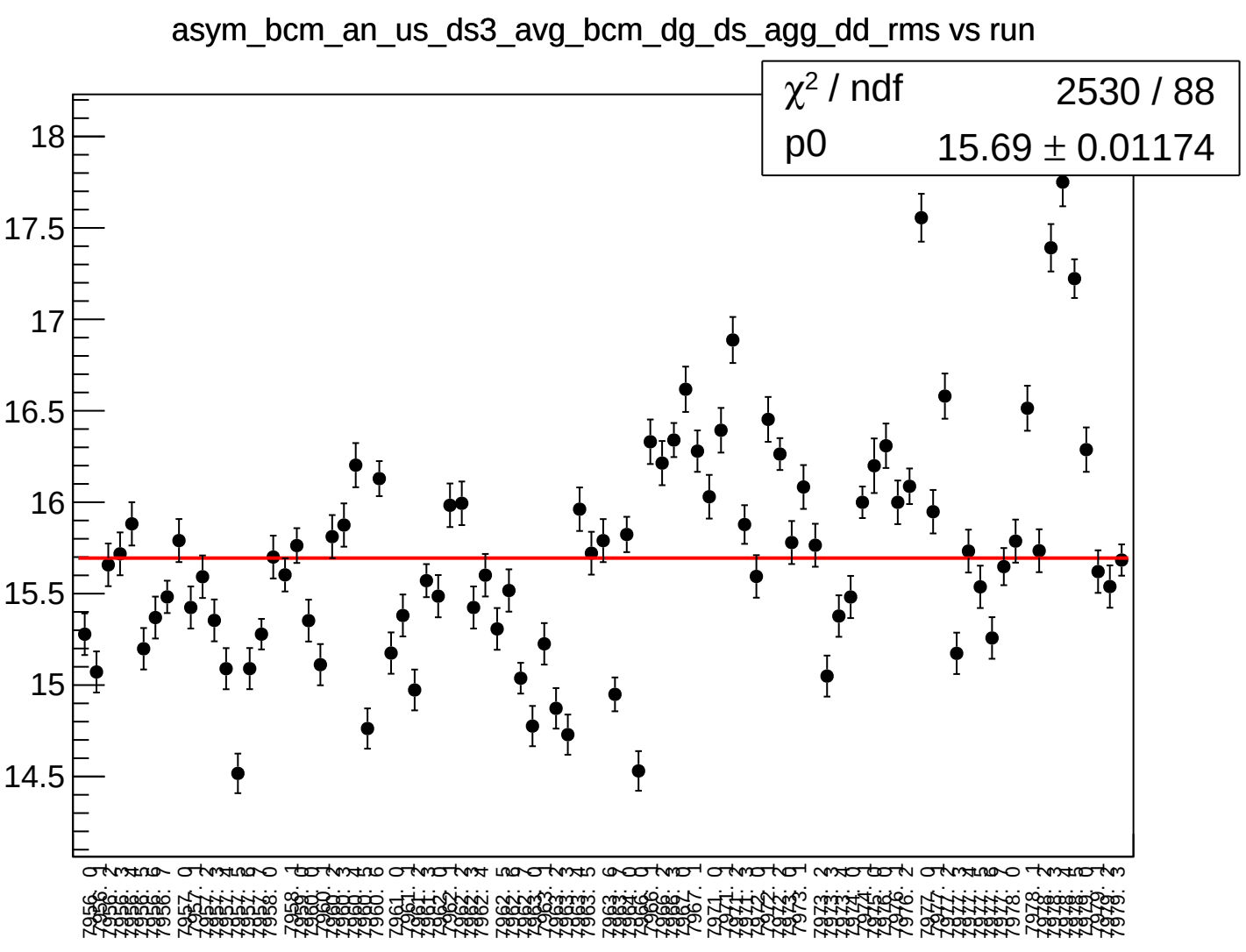

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 91.23 / 88
p0 13.94 ± 22.5
pull
Entries 89
Mean 172.9
Std Dev 0

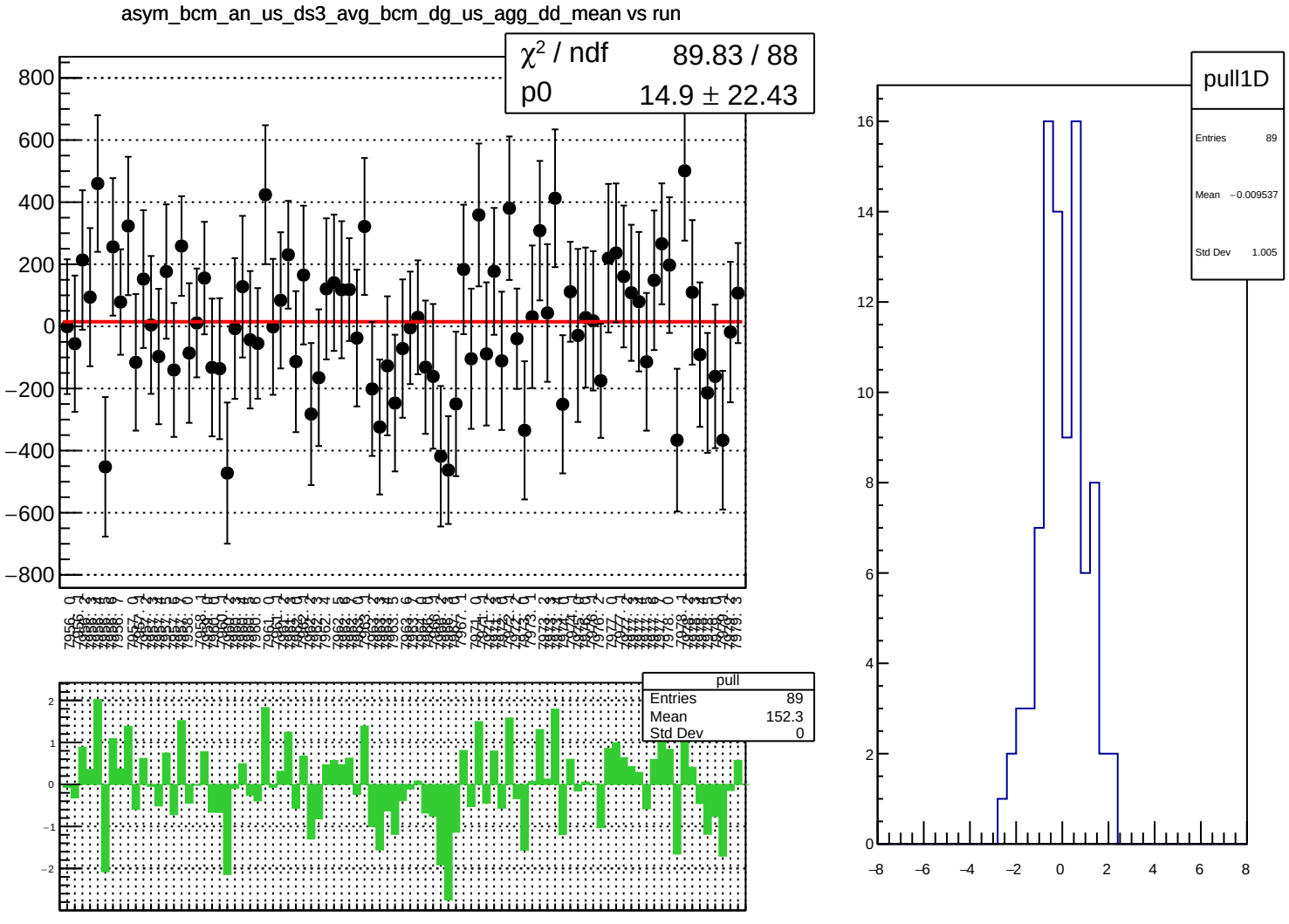

pull1D
Entries 89
Mean −0.009201
Std Dev 1.012

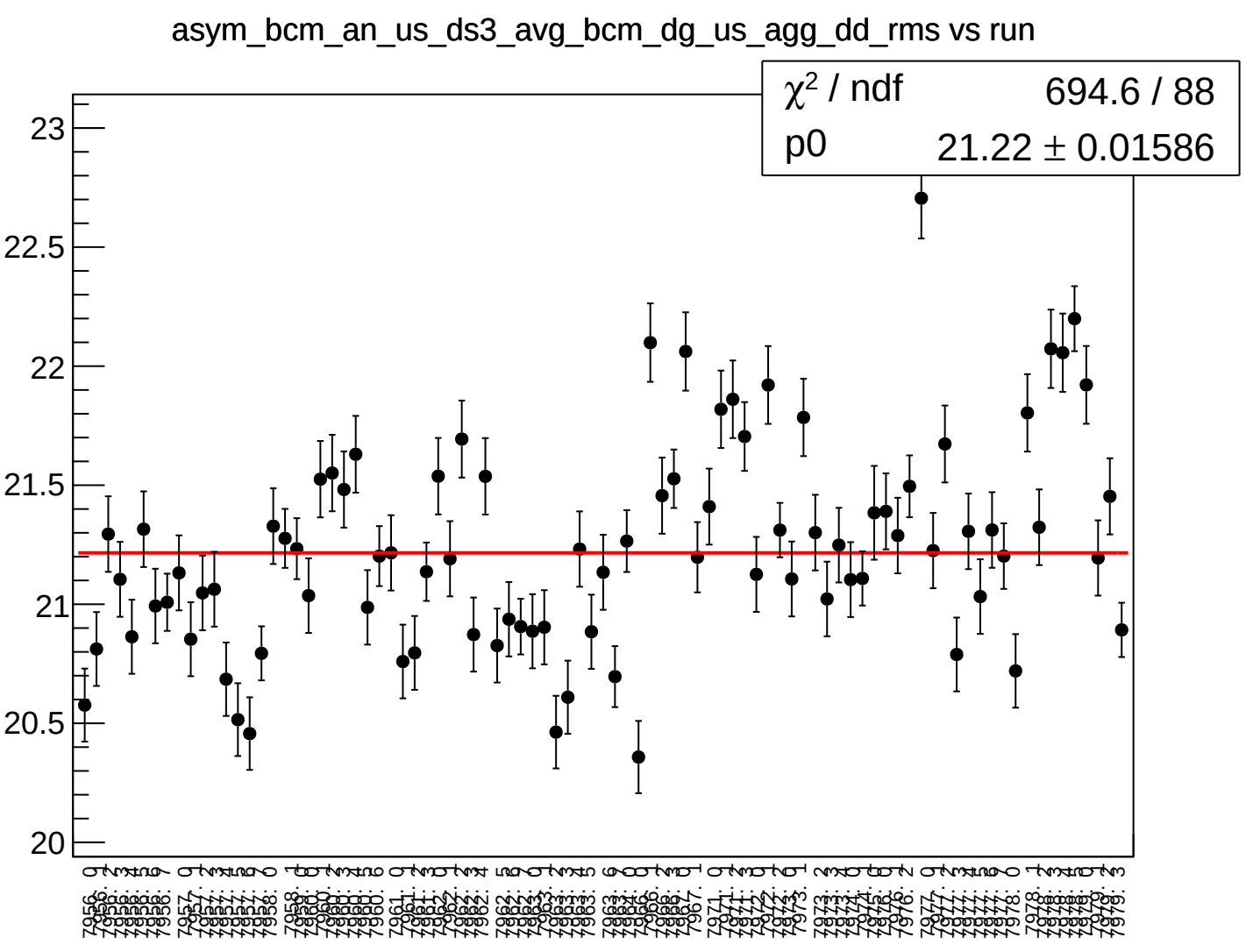

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 686.7 / 88
p0 21.28 ± 0.01591
23
22.5
22
21.5
21
20.5

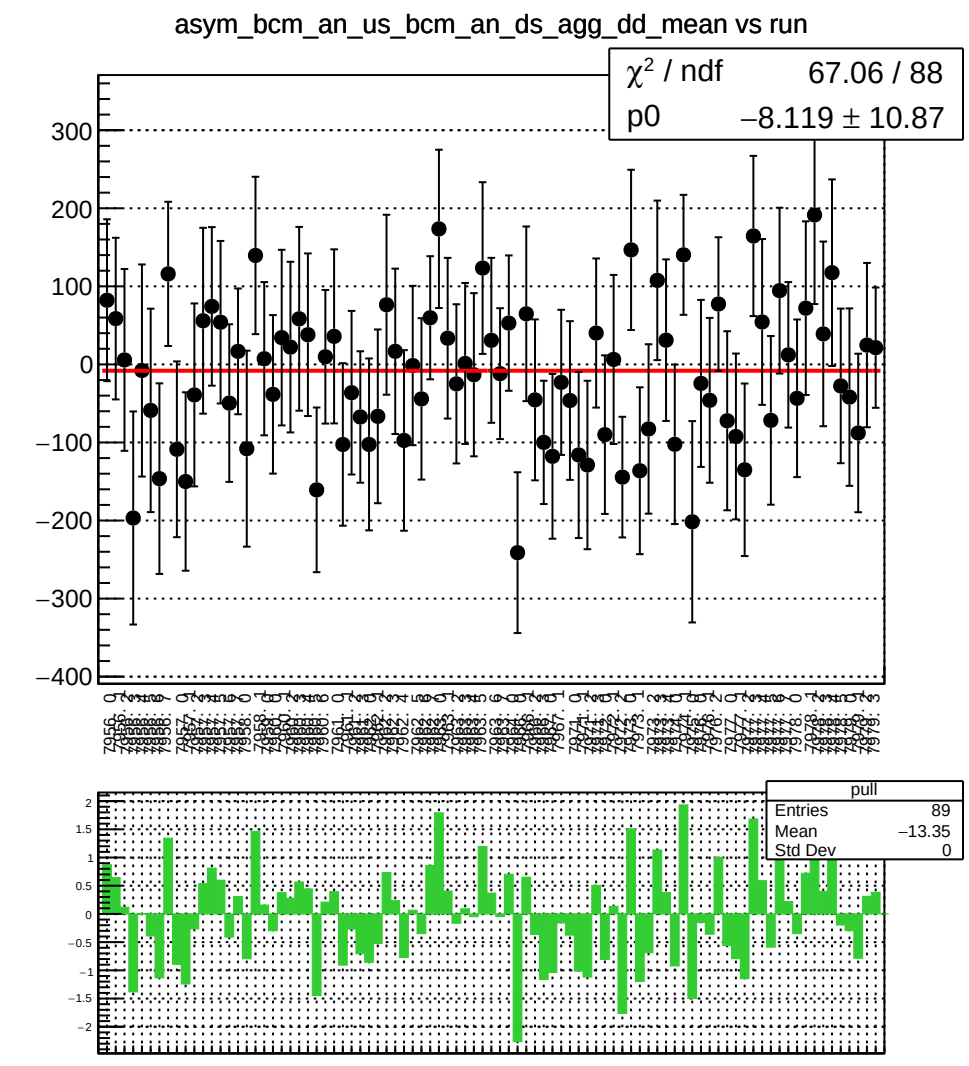

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 66.31 / 88
p0 −4.663 ± 16.6
pull
Entries 89
Mean 47.23
Std Dev 50.16

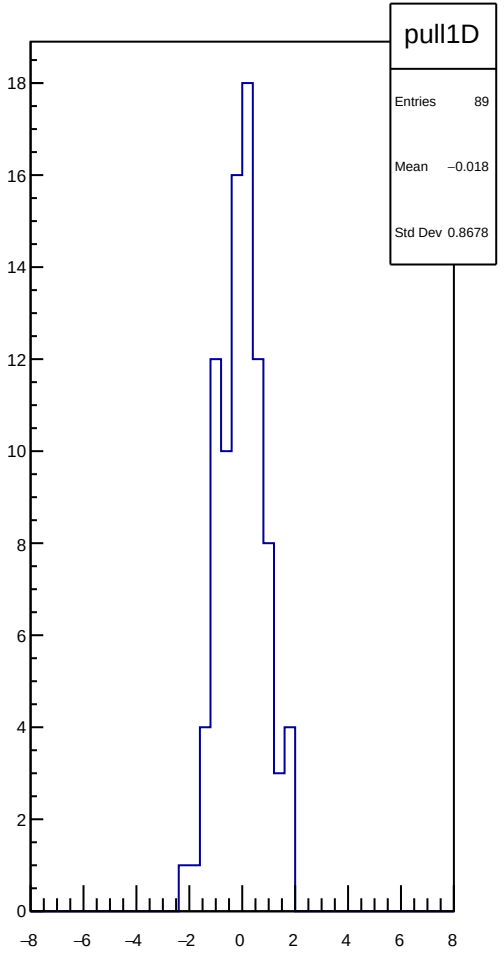

pull1D
Entries 89
Mean 0.01844
Std Dev 0.863

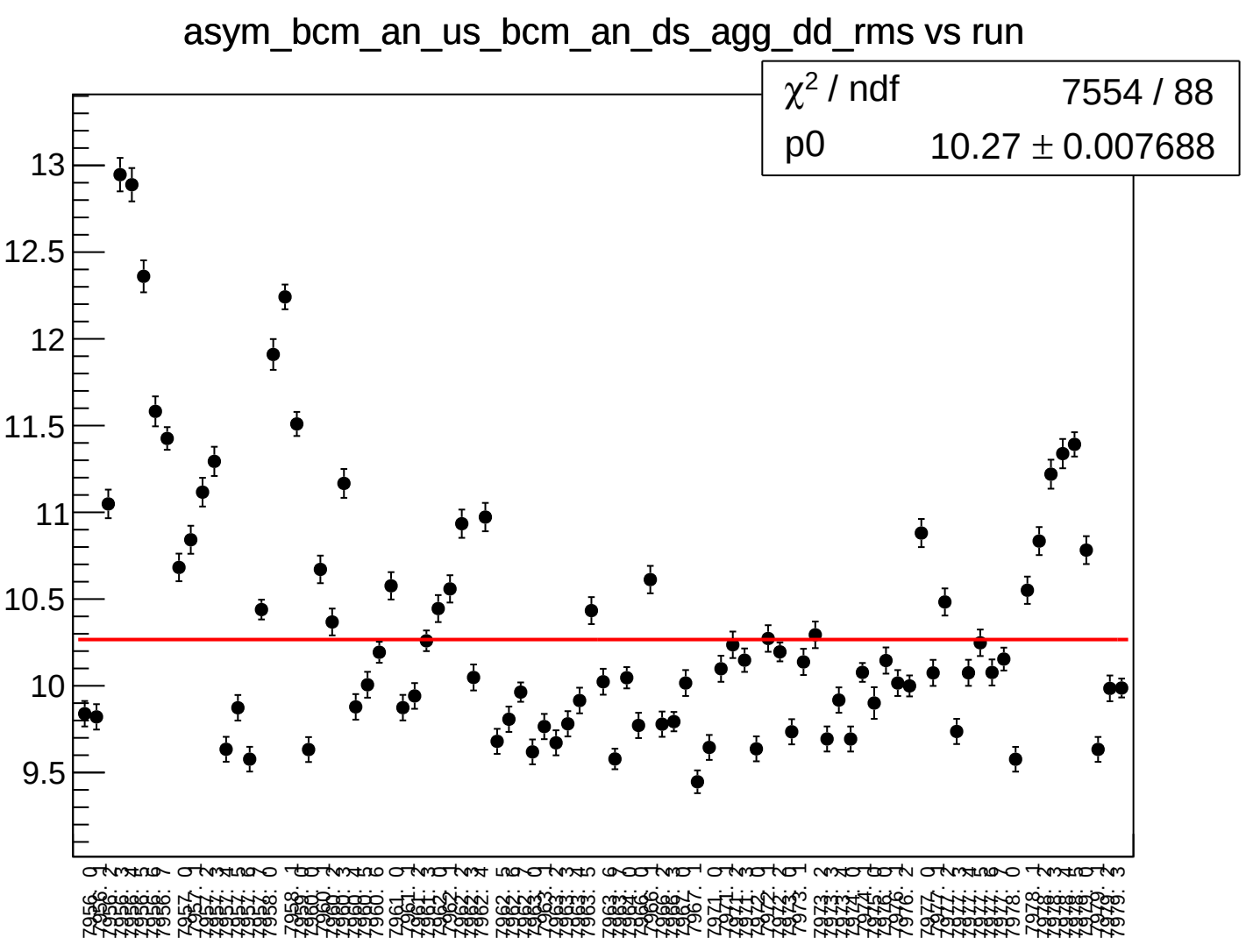

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2530 / 88
p0 15.69 ± 0.01174
18
17.5
17
16.5
16
15.5
15
14.5

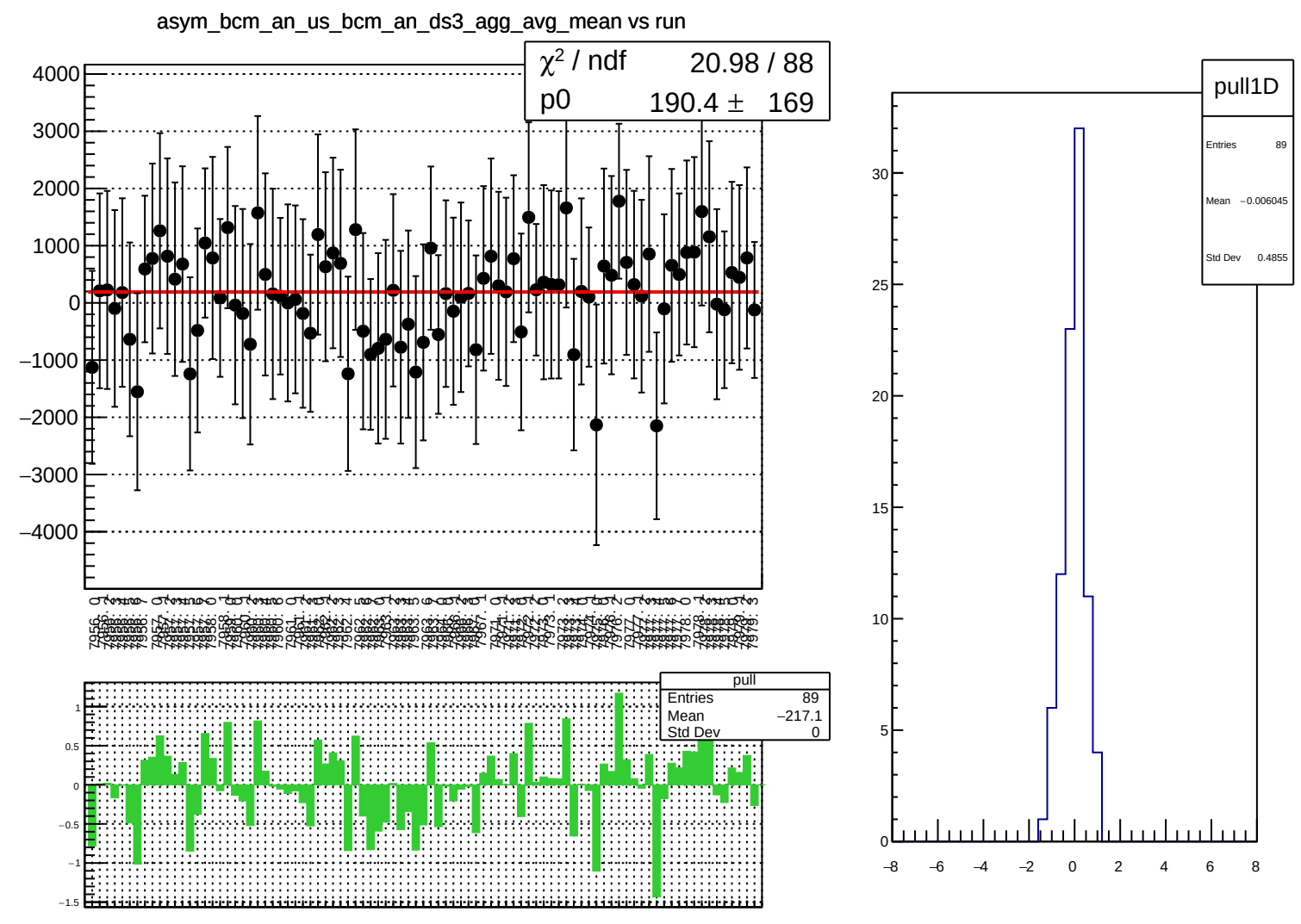

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 89.83 / 88
p0 14.9 ± 22.43
pull
Entries 89
Mean 152.3
Std Dev 0
pull1D
Entries 89
Mean −0.009537
Std Dev 1.005

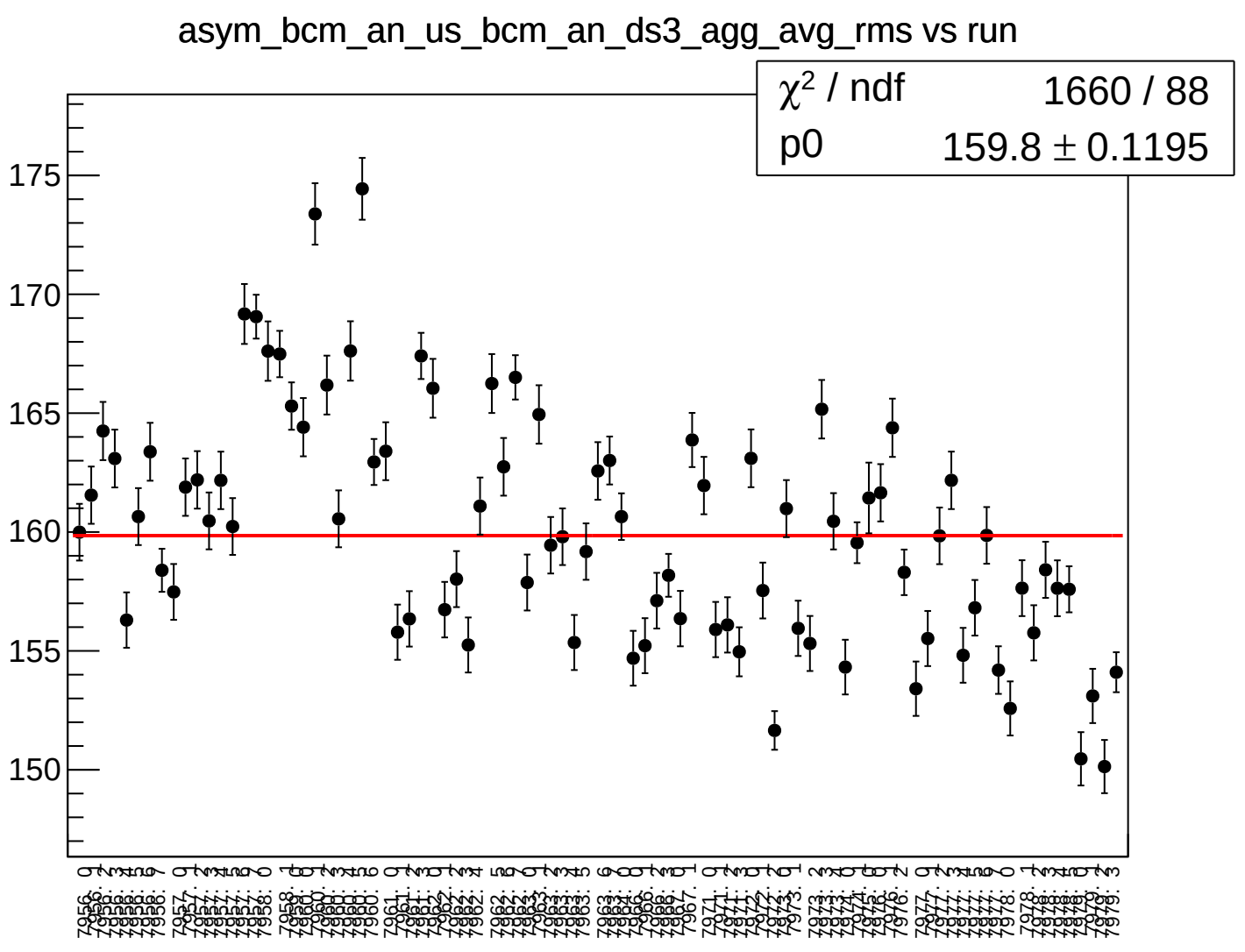

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 694.6 / 88
p0 21.22 ± 0.01586
23
22.5
22
21.5
21
20.5
20

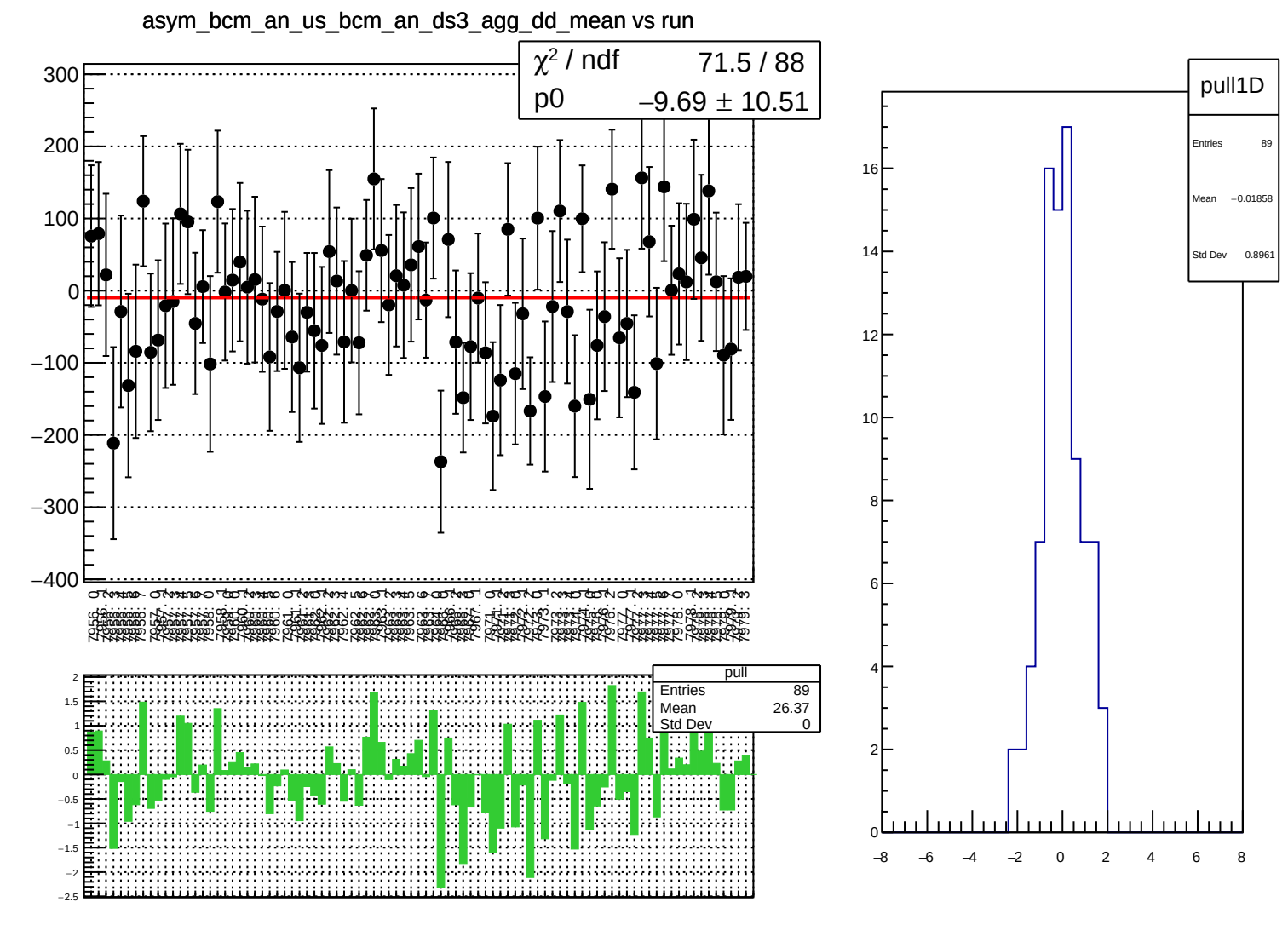

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 67.06 / 88
p0 −8.119 ± 10.87
pull
Entries 89
Mean −13.35
Std Dev 0

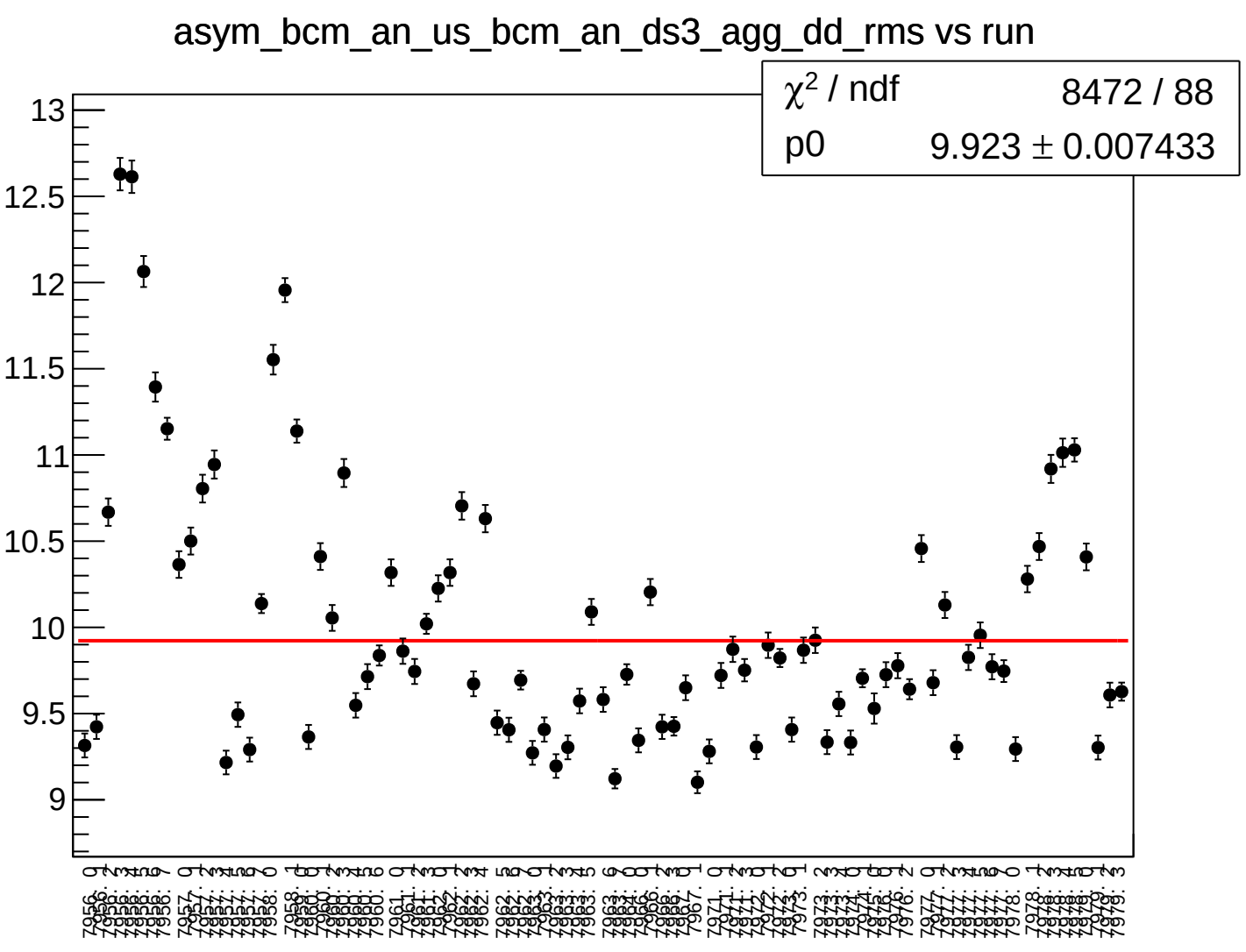

pull1D
Entries 89
Mean −0.018
Std Dev 0.8678

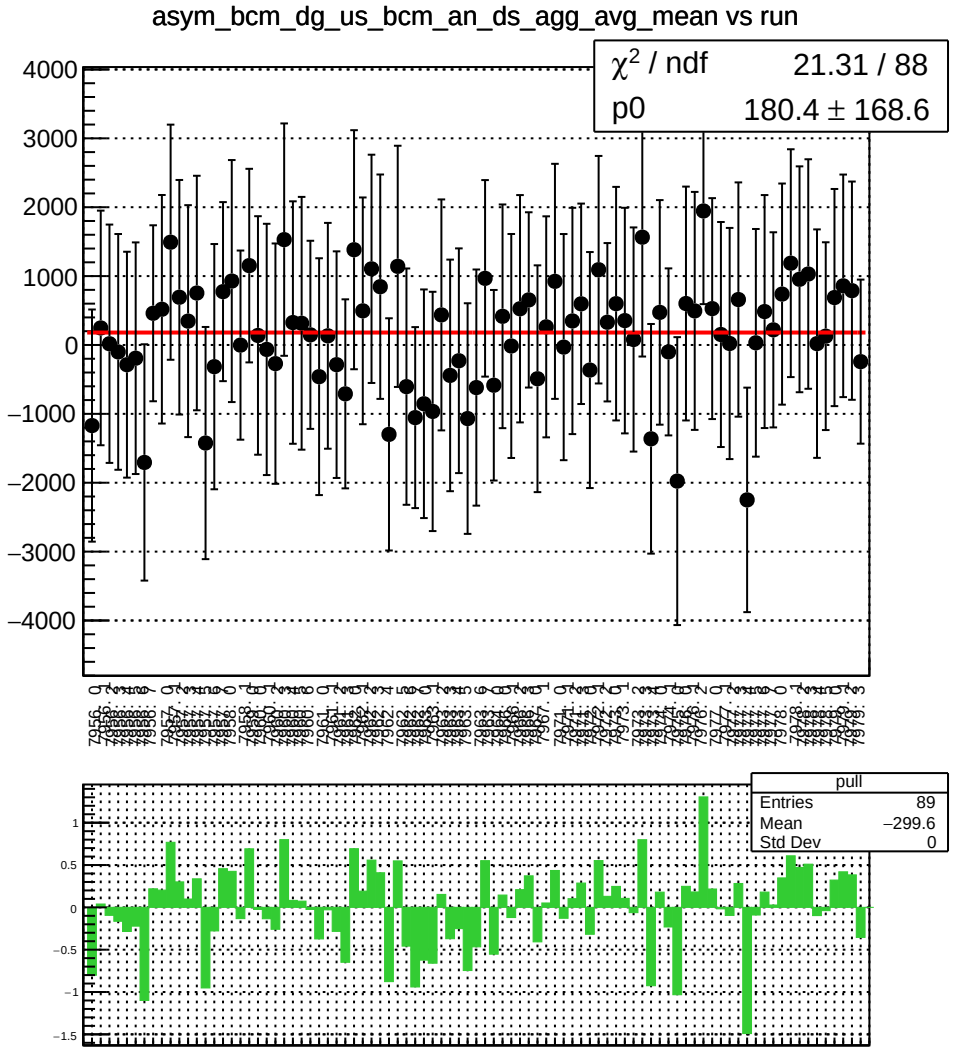

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 7554 / 88
p0 10.27 ± 0.007688
13
12.5
12
11.5
11
10.5
10
9.5

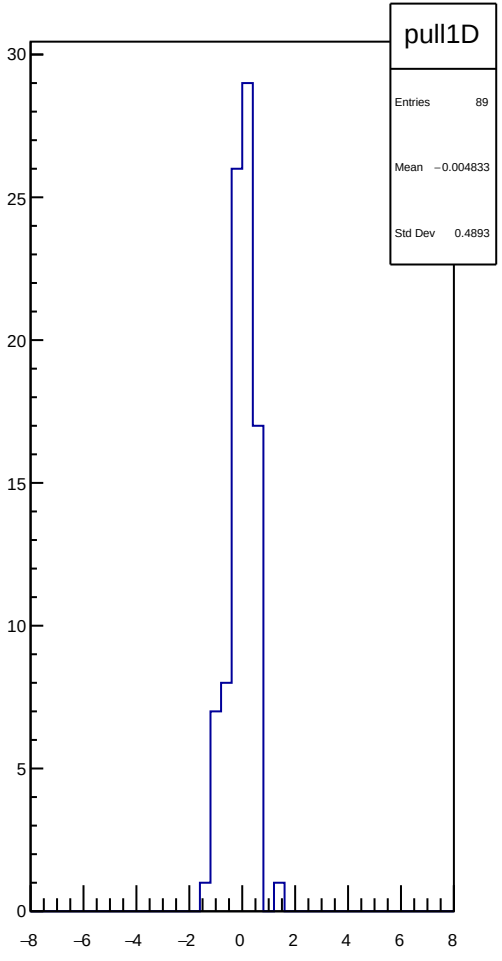

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 20.98 / 88
p0 190.4 ± 169
pull
Entries 89
Mean −217.1
Std Dev 0
pull1D
Entries 89
Mean −0.006045
Std Dev 0.4855

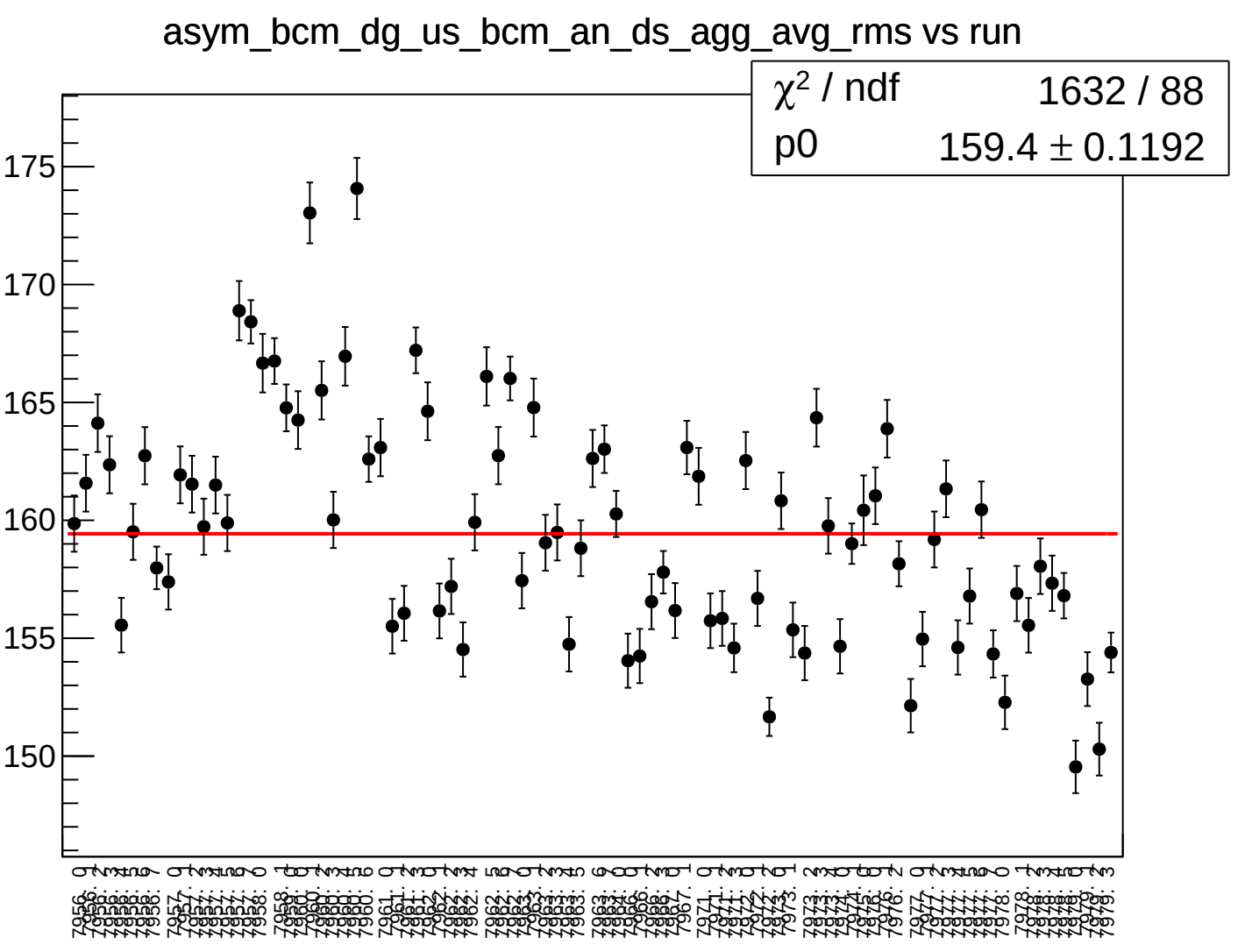

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1660 / 88
p0 159.8 ± 0.1195
175
170
165
160
155
150

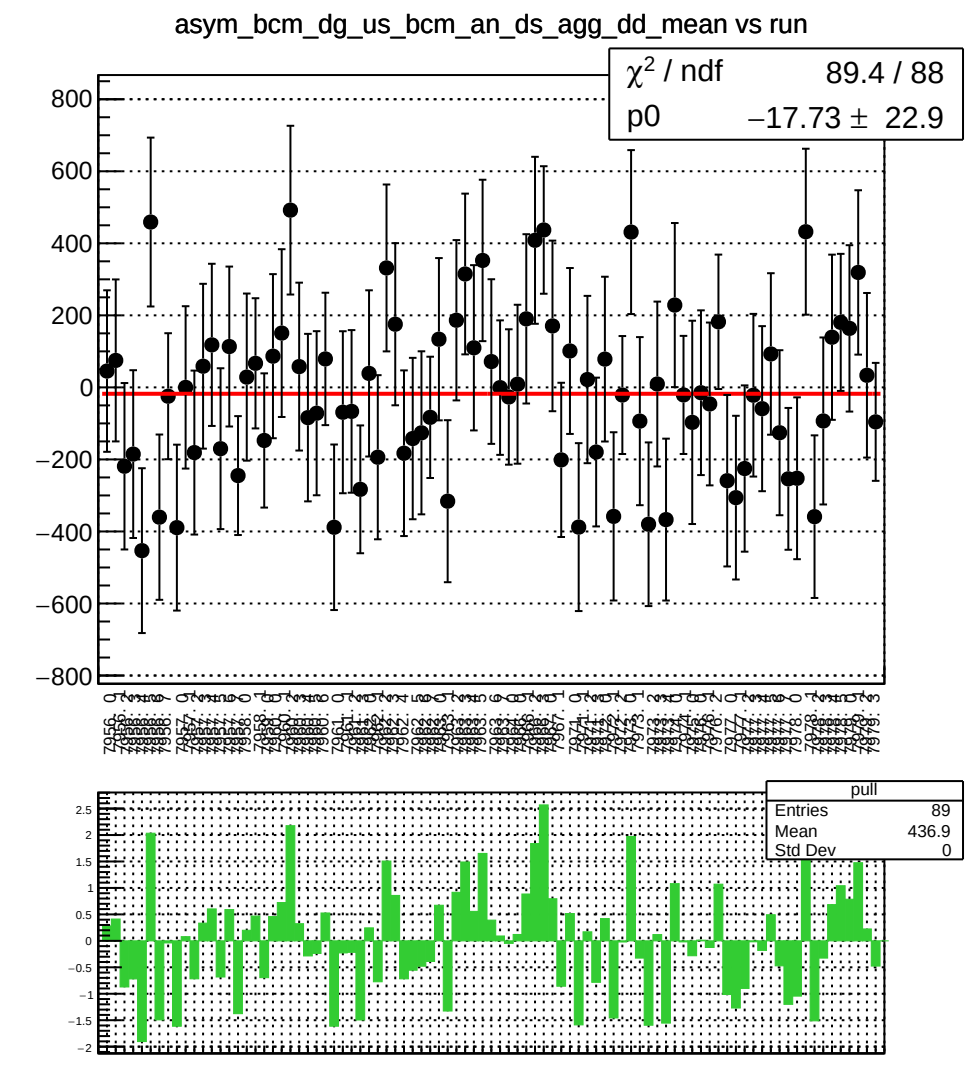

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 71.5 / 88
p0 −9.69 ± 10.51
pull
Entries 89
Mean 26.37
Std Dev 0
pull1D
Entries 89
Mean −0.01858
Std Dev 0.8961

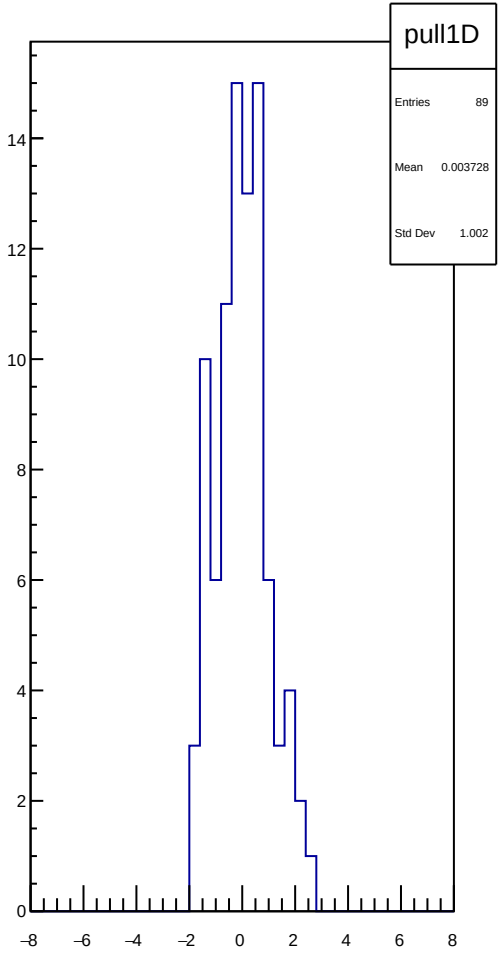

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 8472 / 88
p0 9.923 ± 0.007433
13
12.5
12
11.5
11
10.5
10
9.5
9

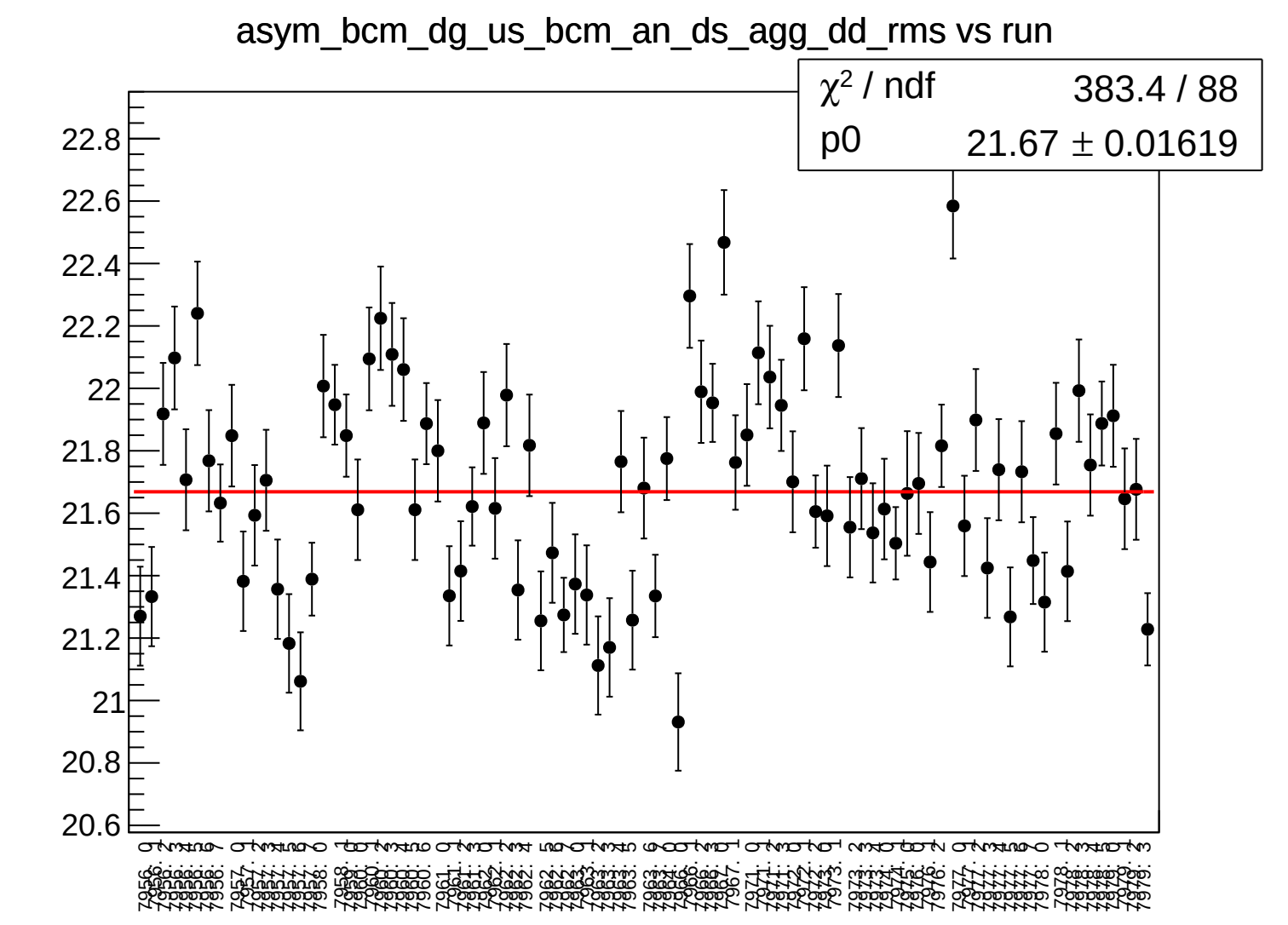

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.31 / 88
p0 180.4 ± 168.6
pull
Entries 89
Mean −299.6
Std Dev 0

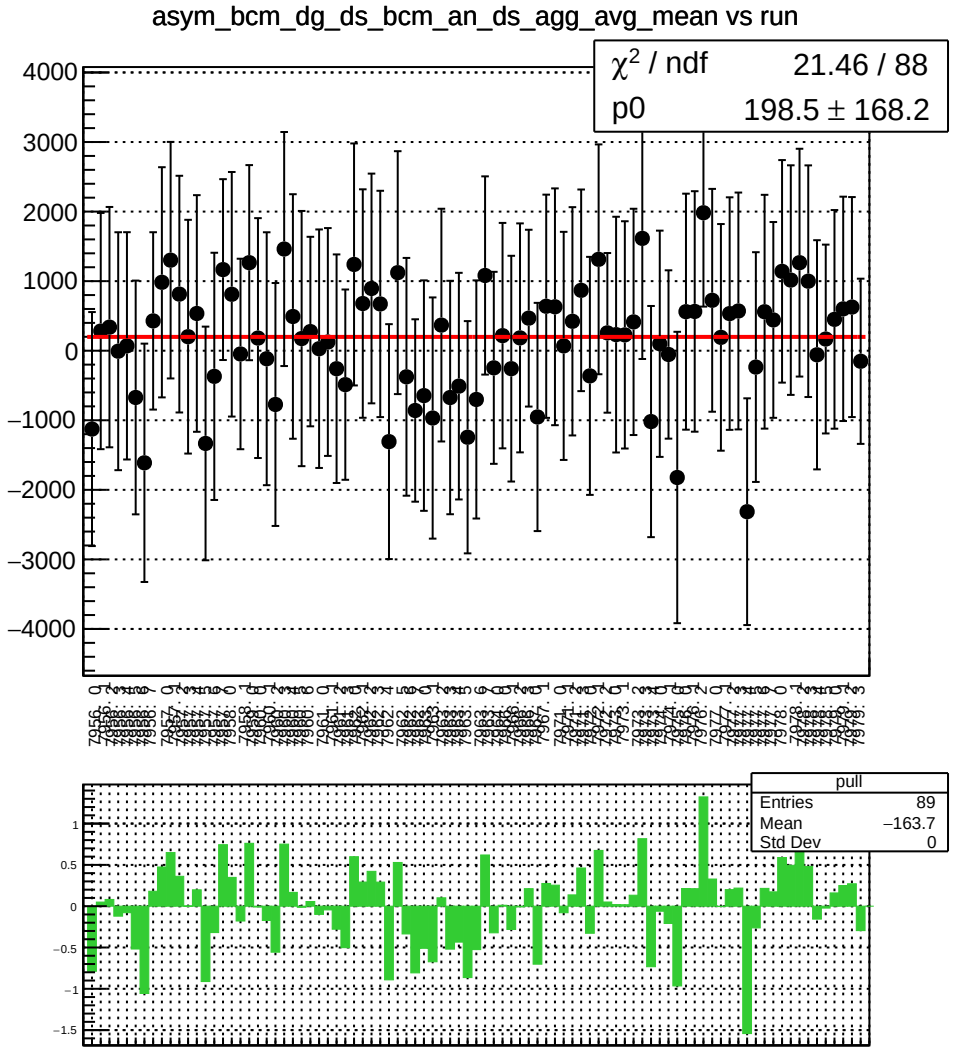

pull1D
Entries 89
Mean −0.004833
Std Dev 0.4893

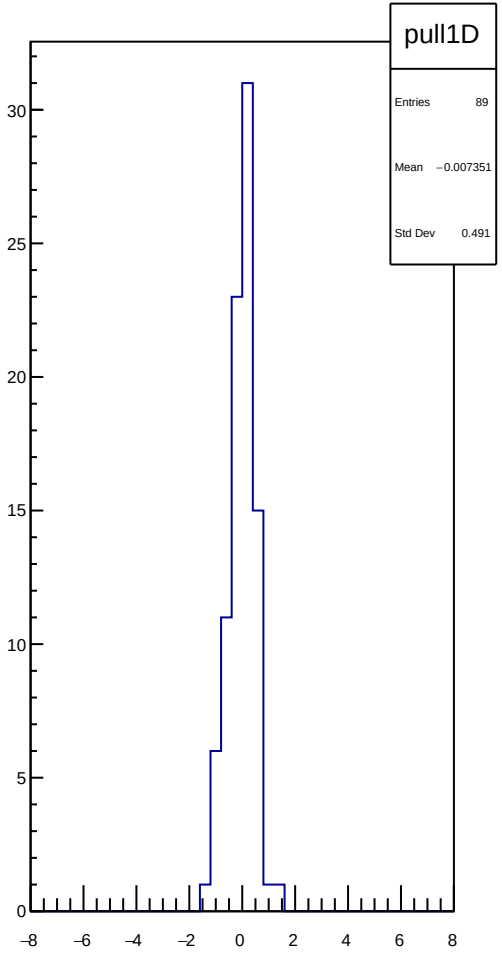

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1632 / 88
p0 159.4 ± 0.1192
175
170
165
160
155
150

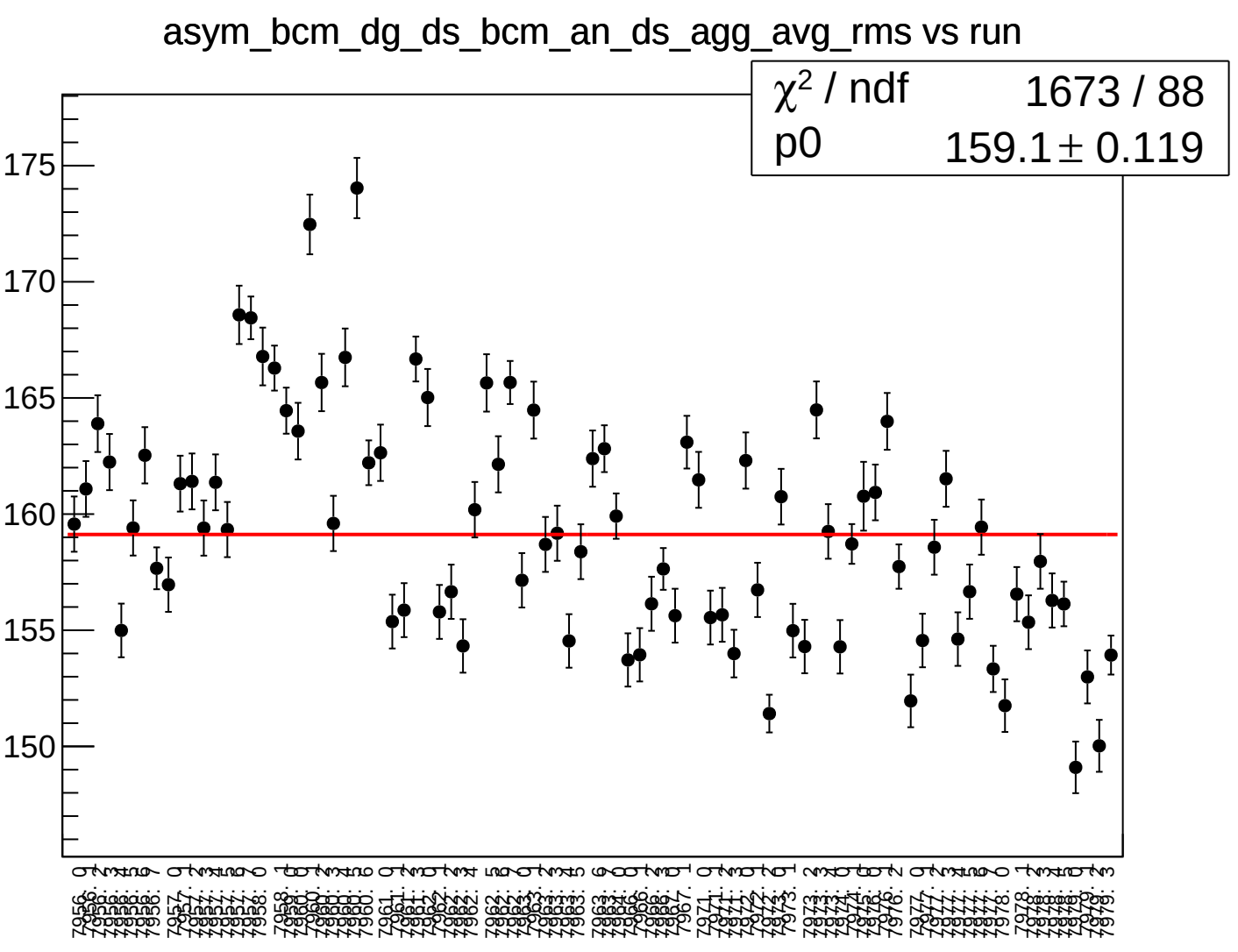

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 89.4 / 88
p0 −17.73 ± 22.9
pull
Entries 89
Mean 436.9
Std Dev 0

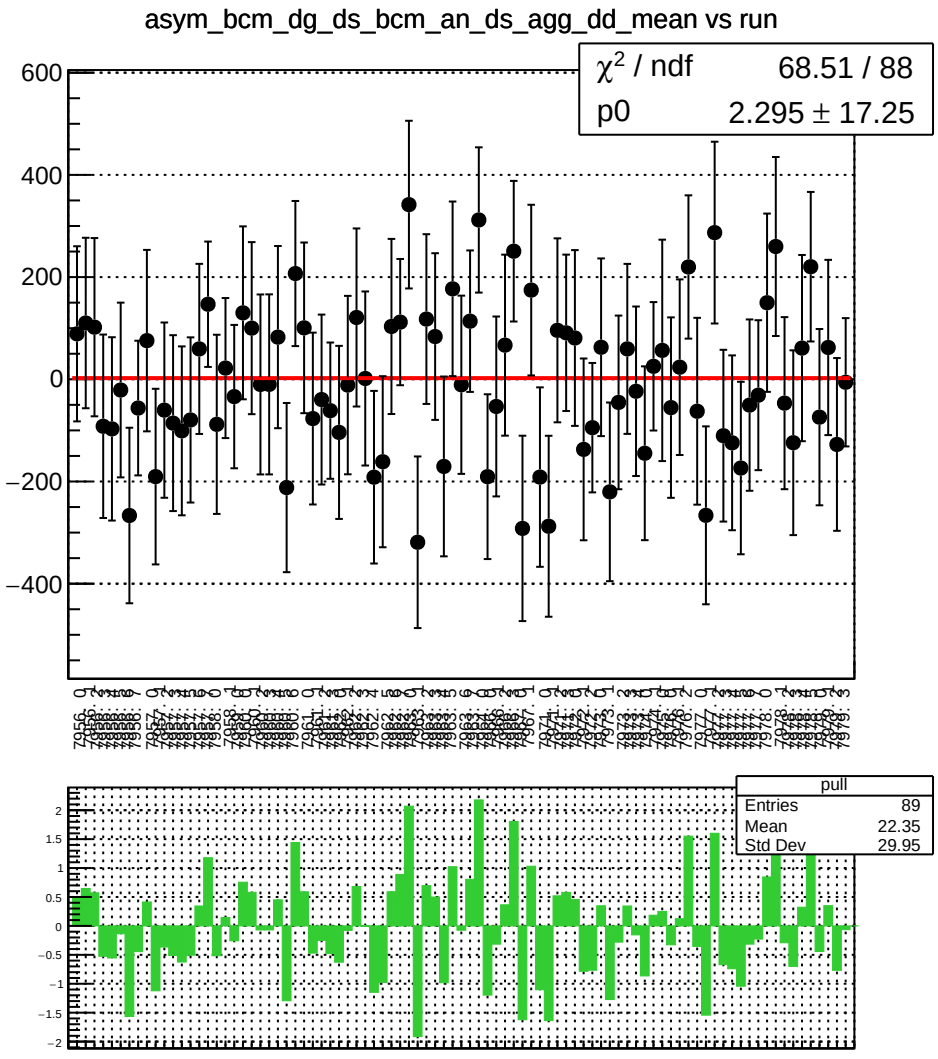

pull1D
Entries 89
Mean 0.003728
Std Dev 1.002

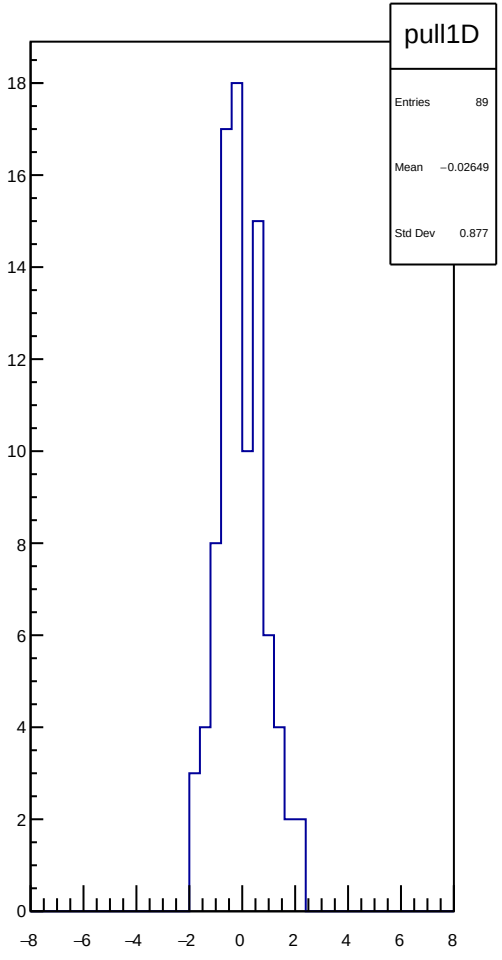

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 383.4 / 88
p0 21.67 ± 0.01619
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6

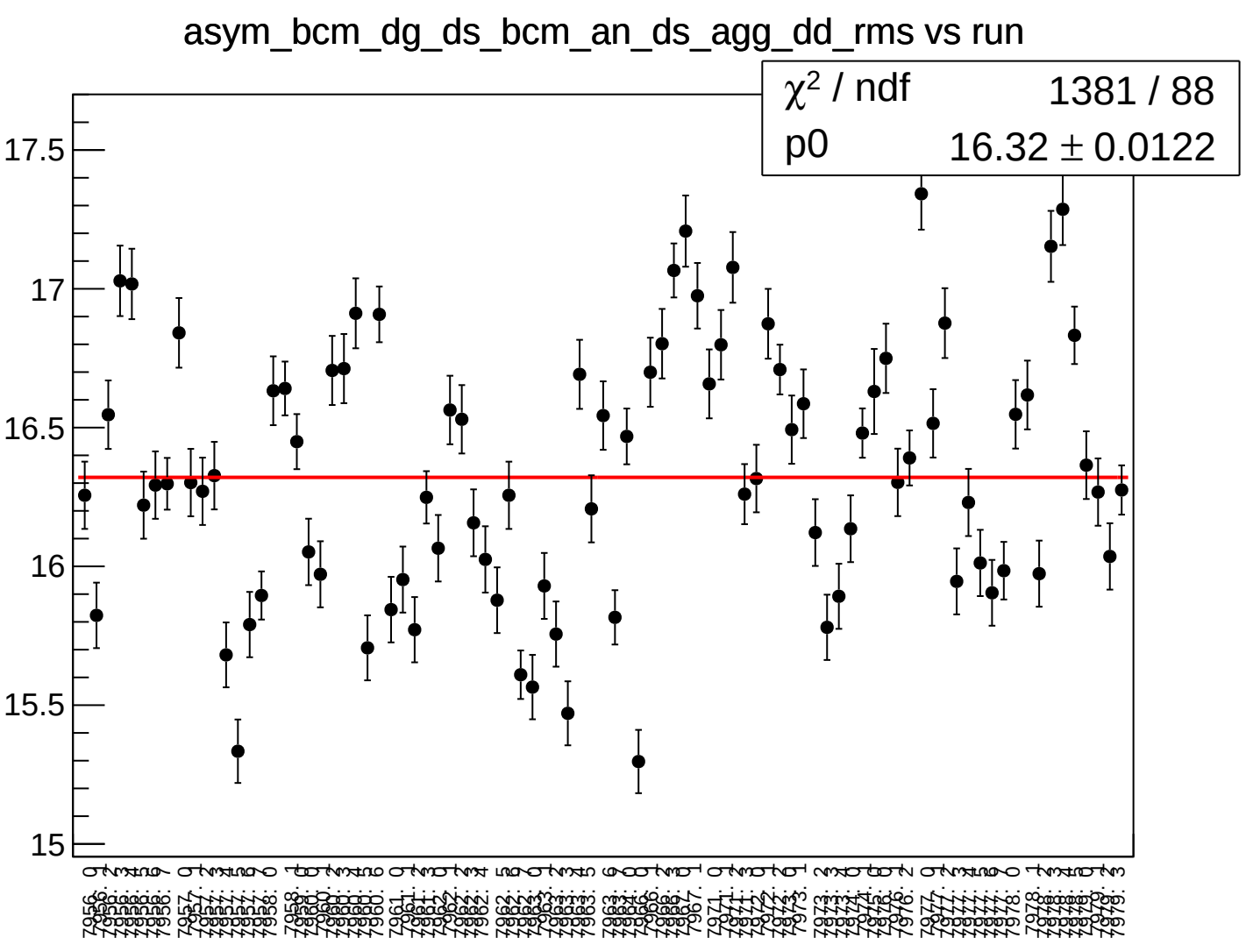

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.46 / 88
p0 198.5 ± 168.2
pull
Entries 89
Mean −163.7
Std Dev 0

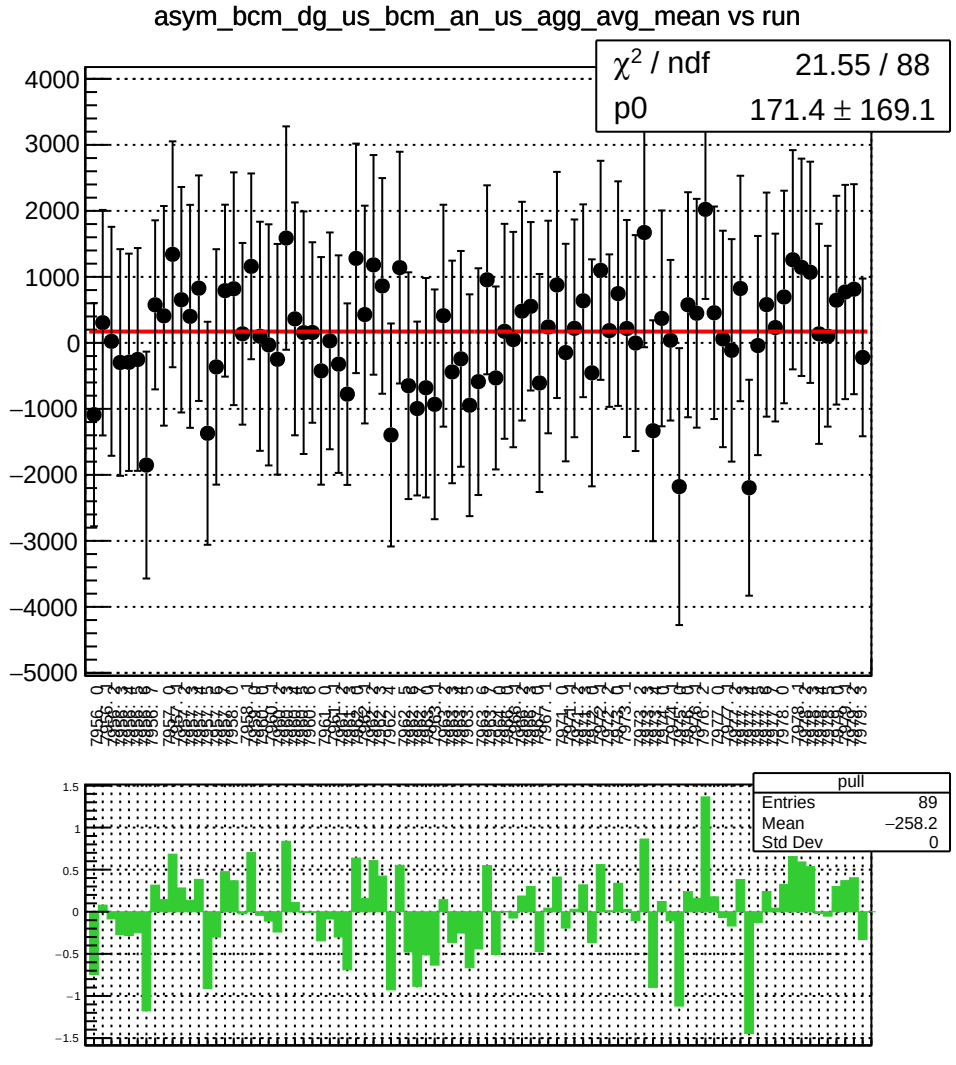

pull1D
Entries 89
Mean −0.007351
Std Dev 0.491

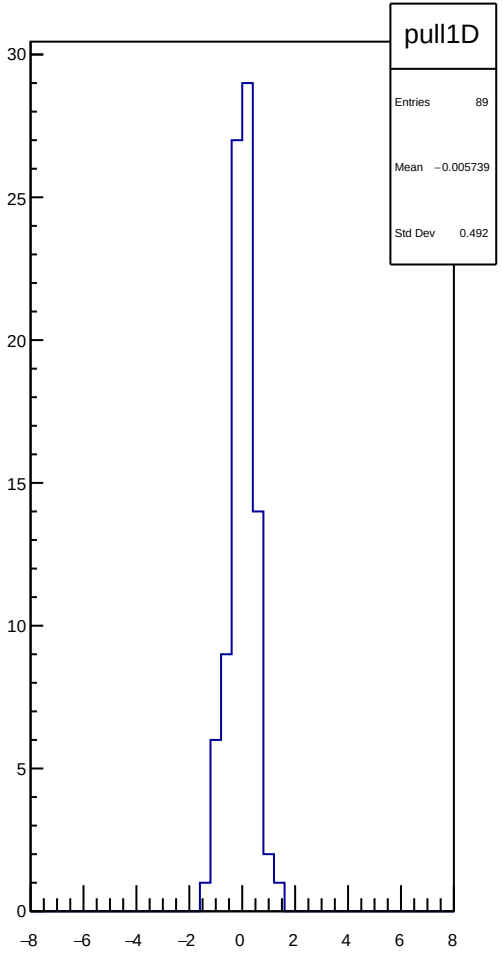

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1673 / 88
p0 159.1 ± 0.119
175
170
165
160
155
150

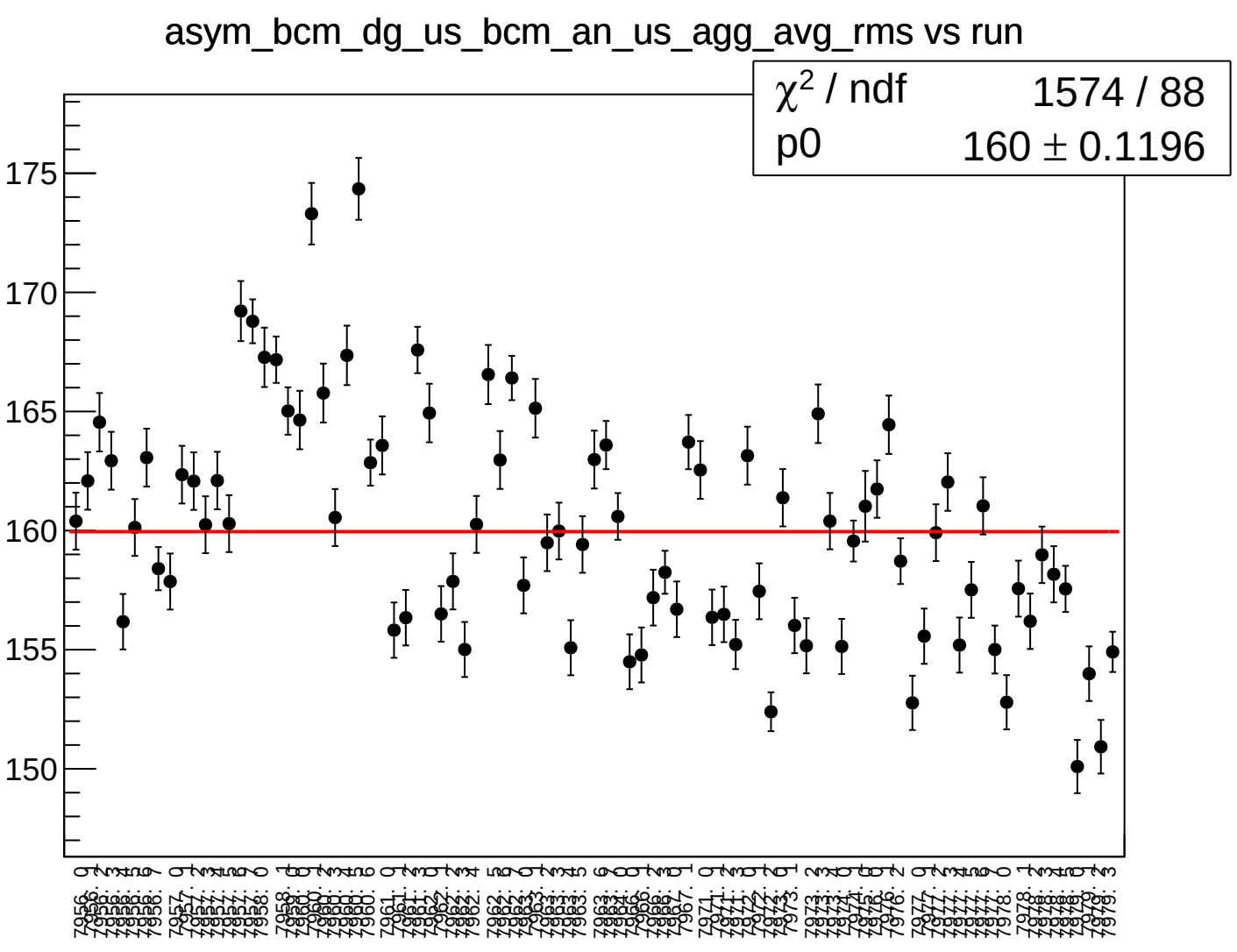

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 68.51 / 88
p0 2.295 ± 17.25
pull
Entries 89
Mean 22.35
Std Dev 29.95

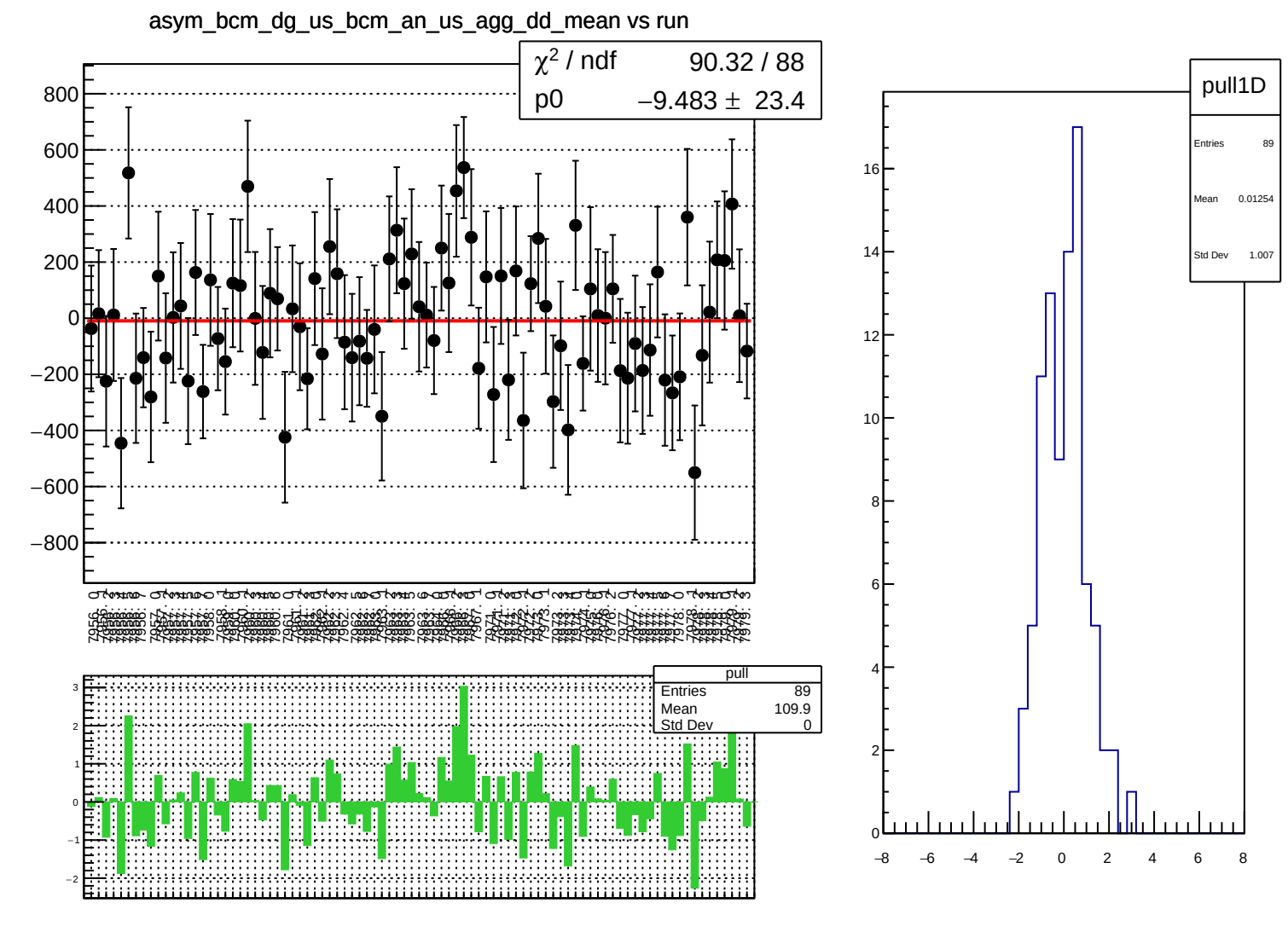

pull1D
Entries 89
Mean −0.02649
Std Dev 0.877

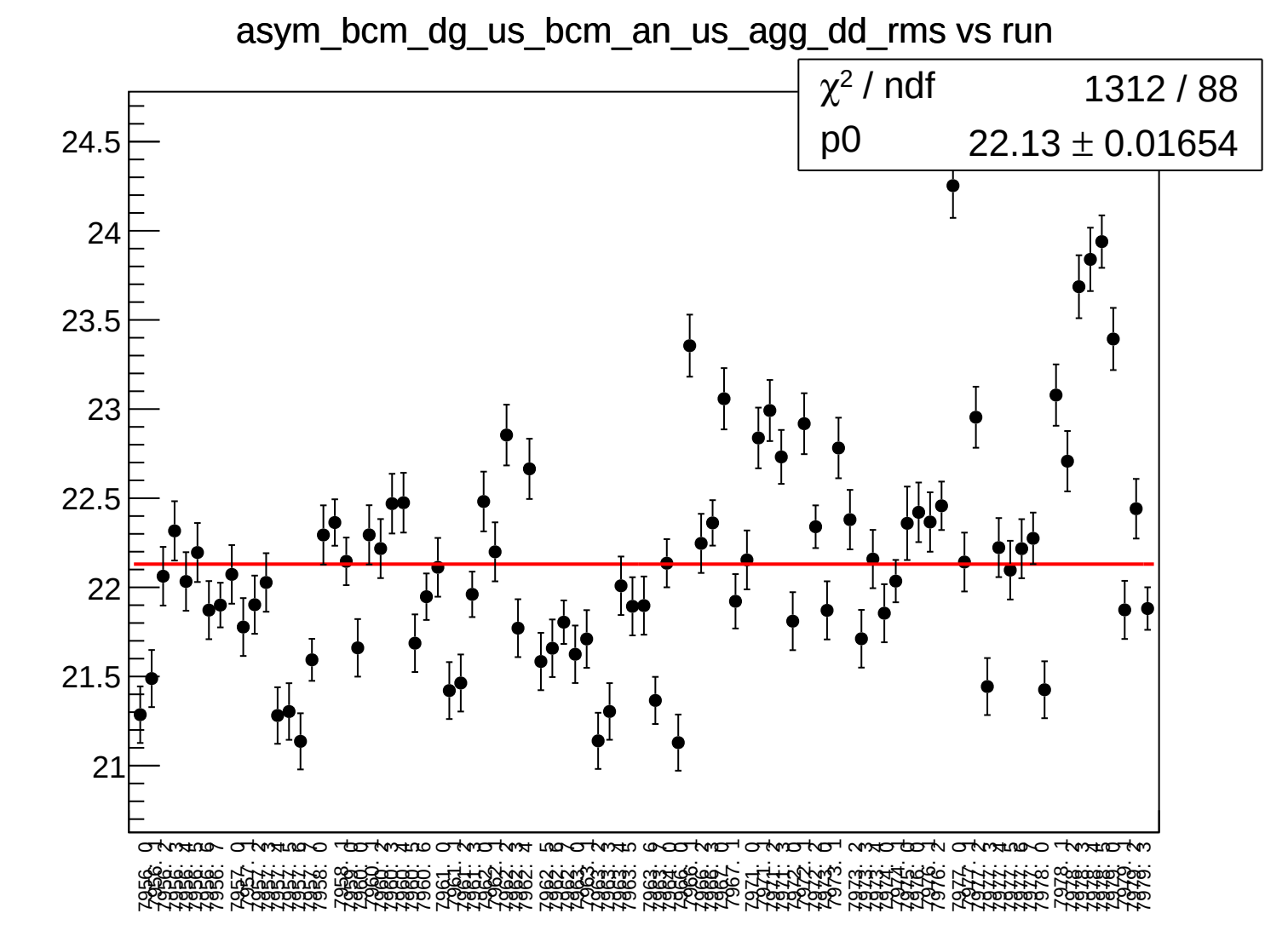

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1381 / 88
p0 16.32 ± 0.0122
17.5
17
16.5
16
15.5
15

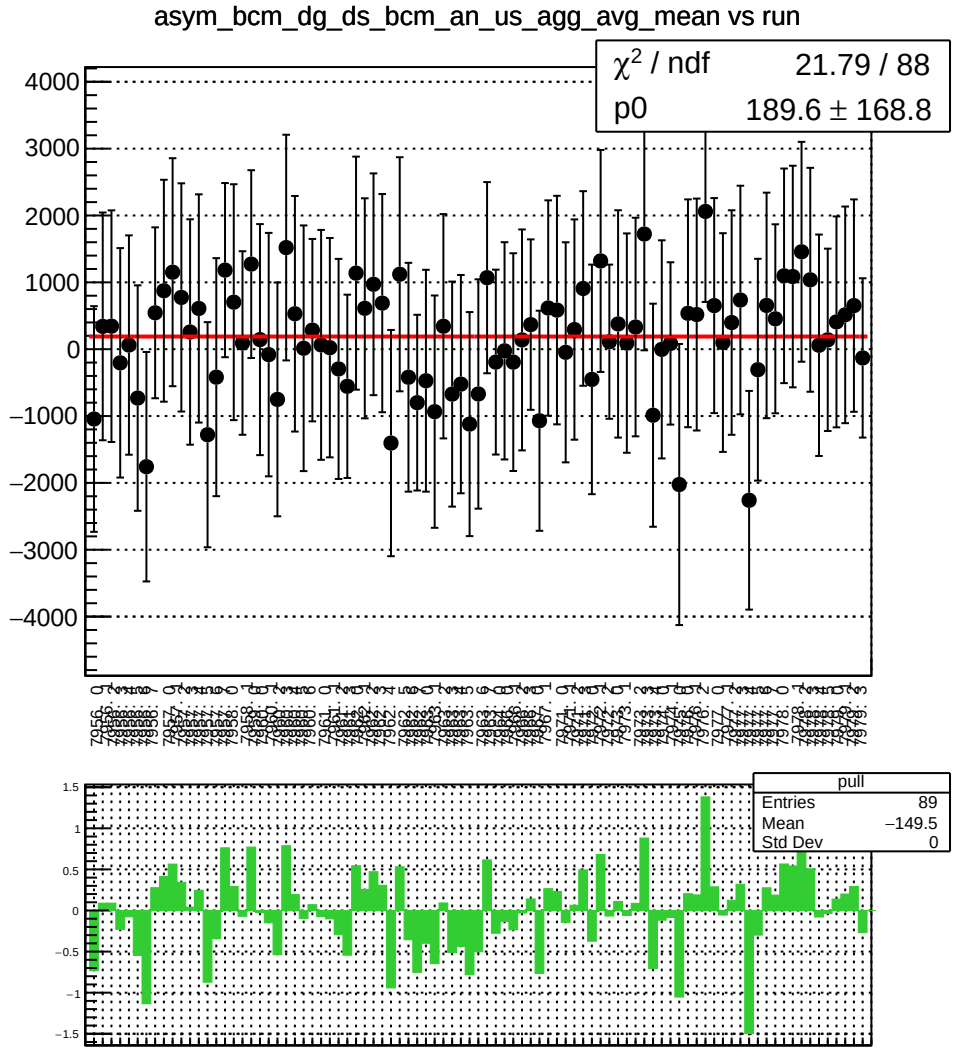

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.55 / 88
p0 171.4 ± 169.1
pull
Entries 89
Mean −258.2
Std Dev 0

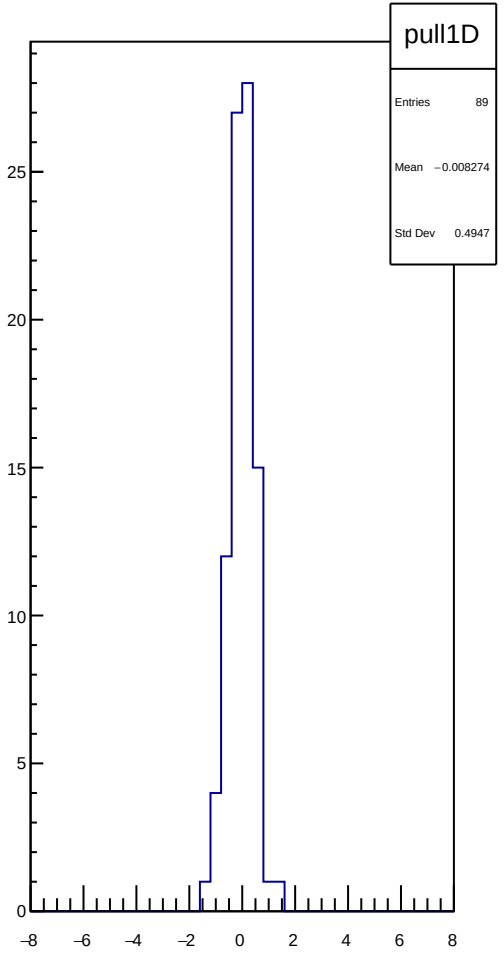

pull1D
Entries 89
Mean −0.005739
Std Dev 0.492

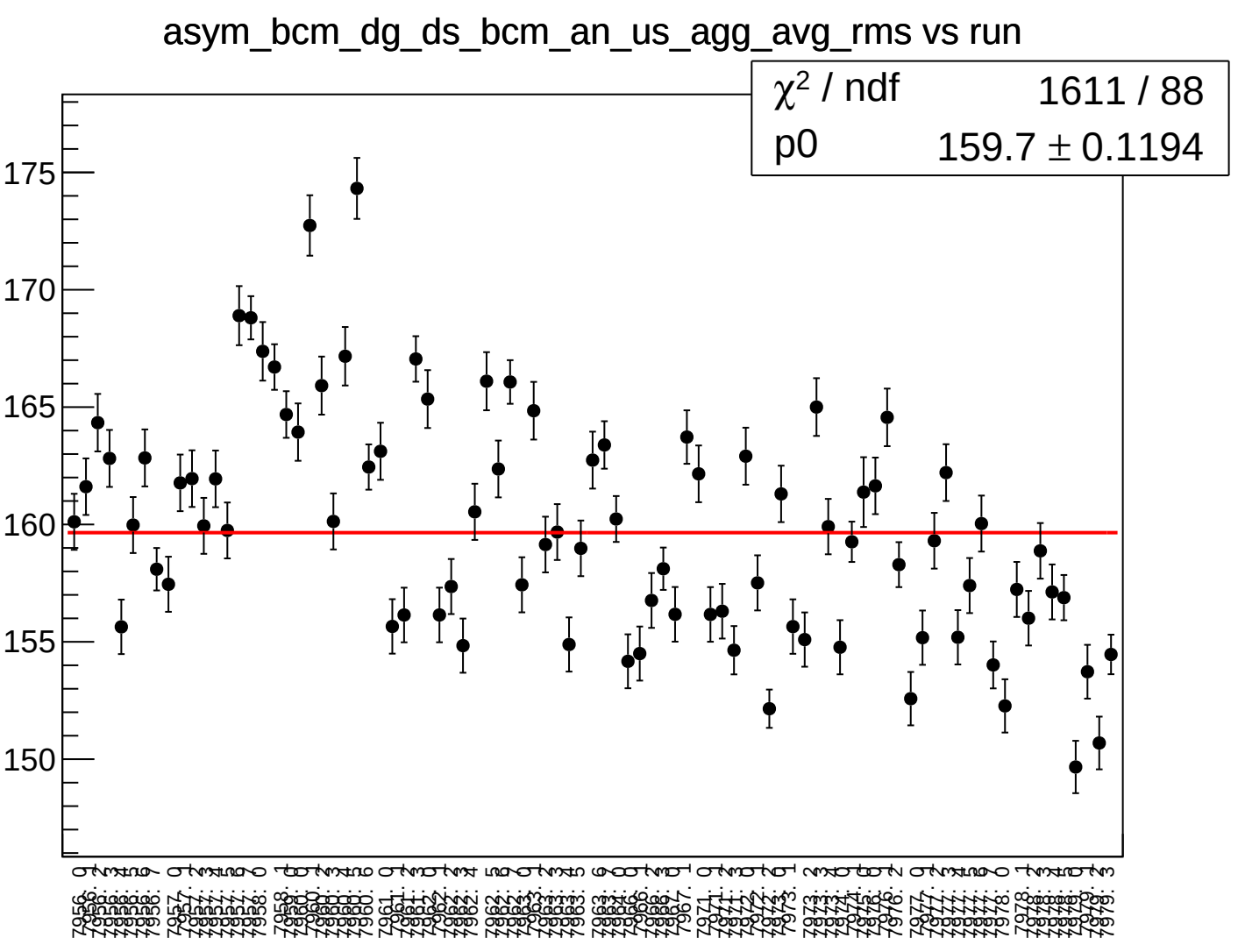

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1574 / 88
p0 160 ± 0.1196
175
170
165
160
155
150

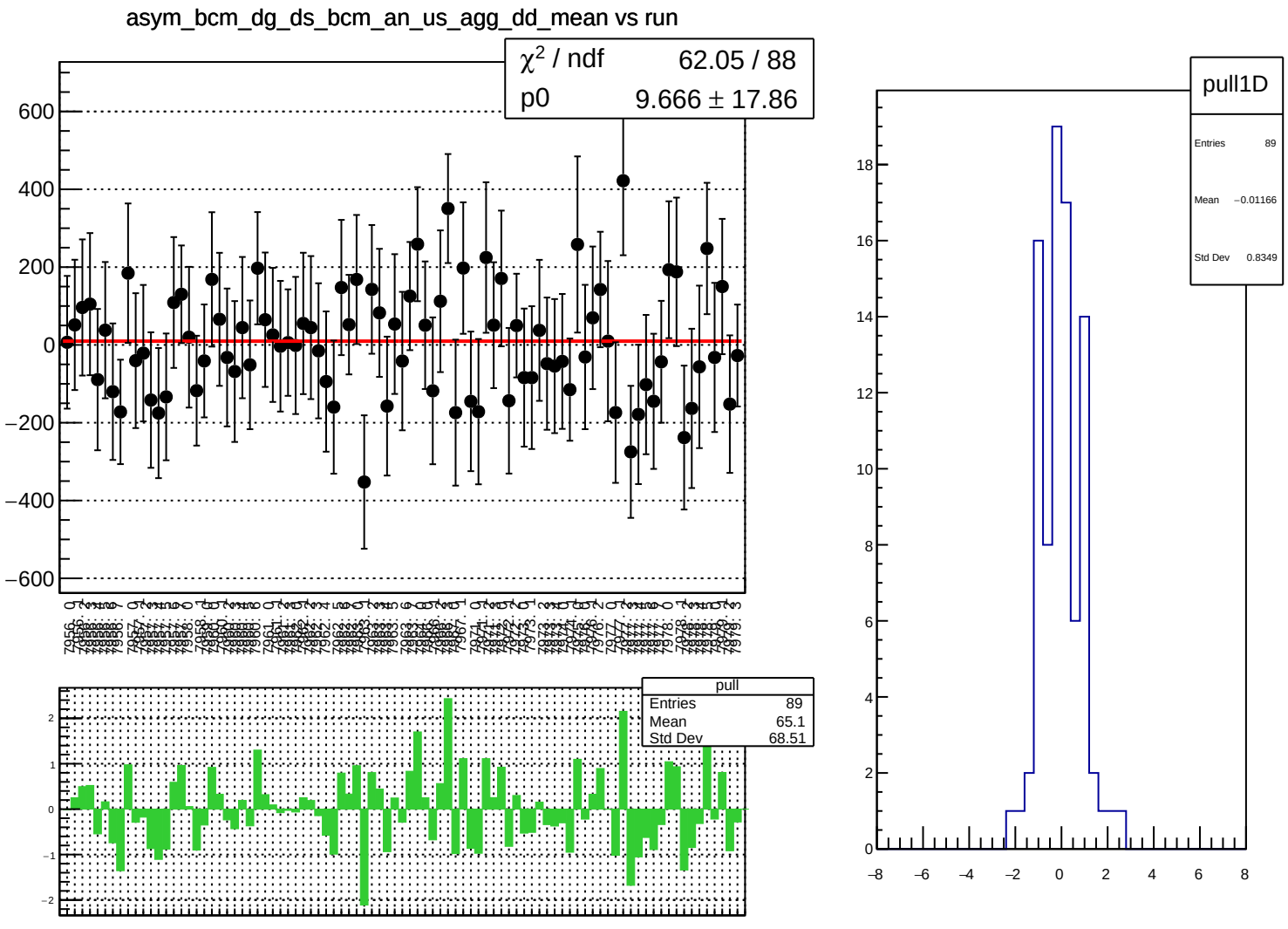

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 90.32 / 88
p0 −9.483 ± 23.4
pull
Entries 89
Mean 109.9
Std Dev 0
pull1D
Entries 89
Mean 0.01254
Std Dev 1.007

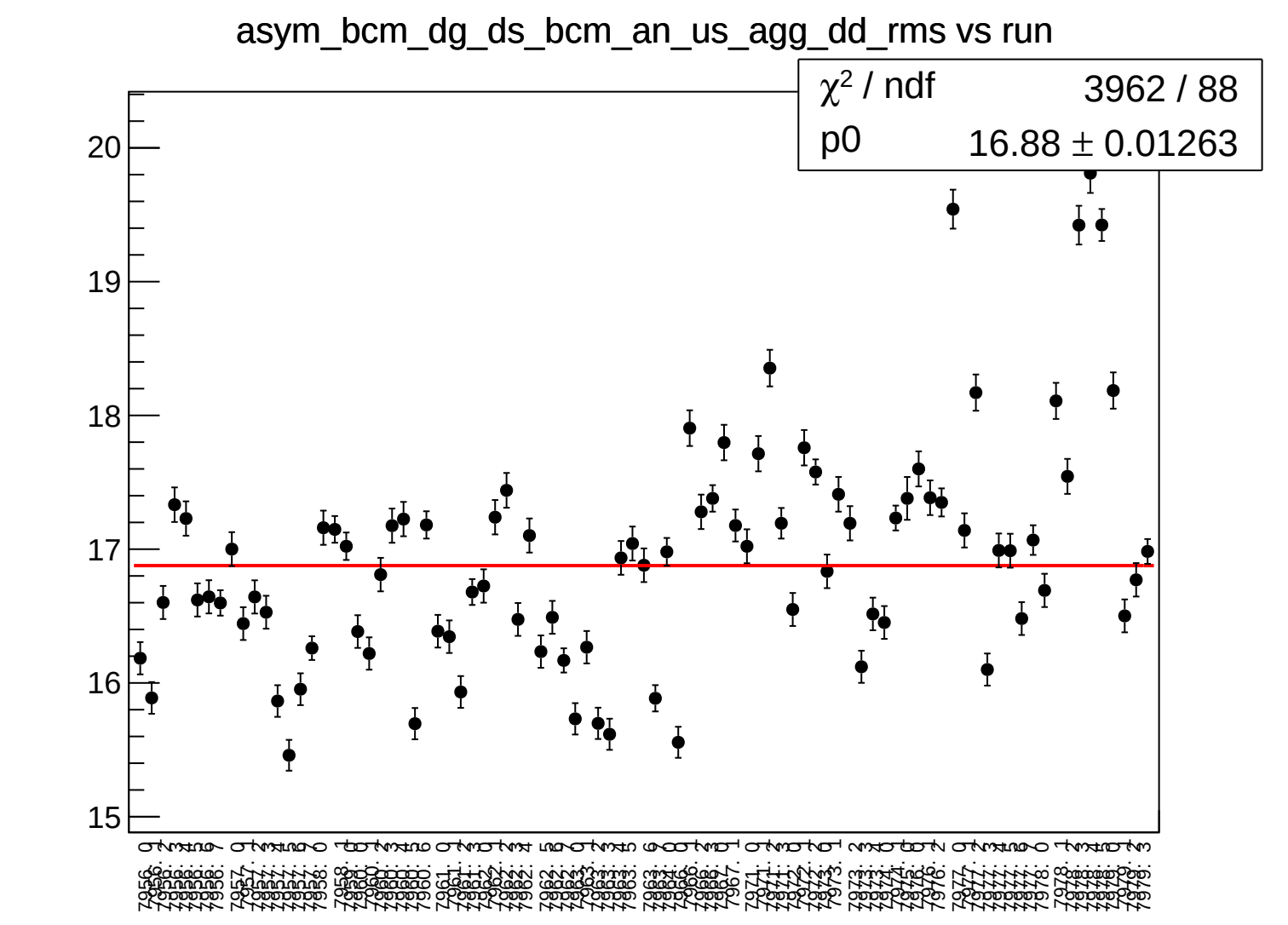

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1312 / 88
p0 22.13 ± 0.01654
24.5
24
23.5
23
22.5
22
21.5
21

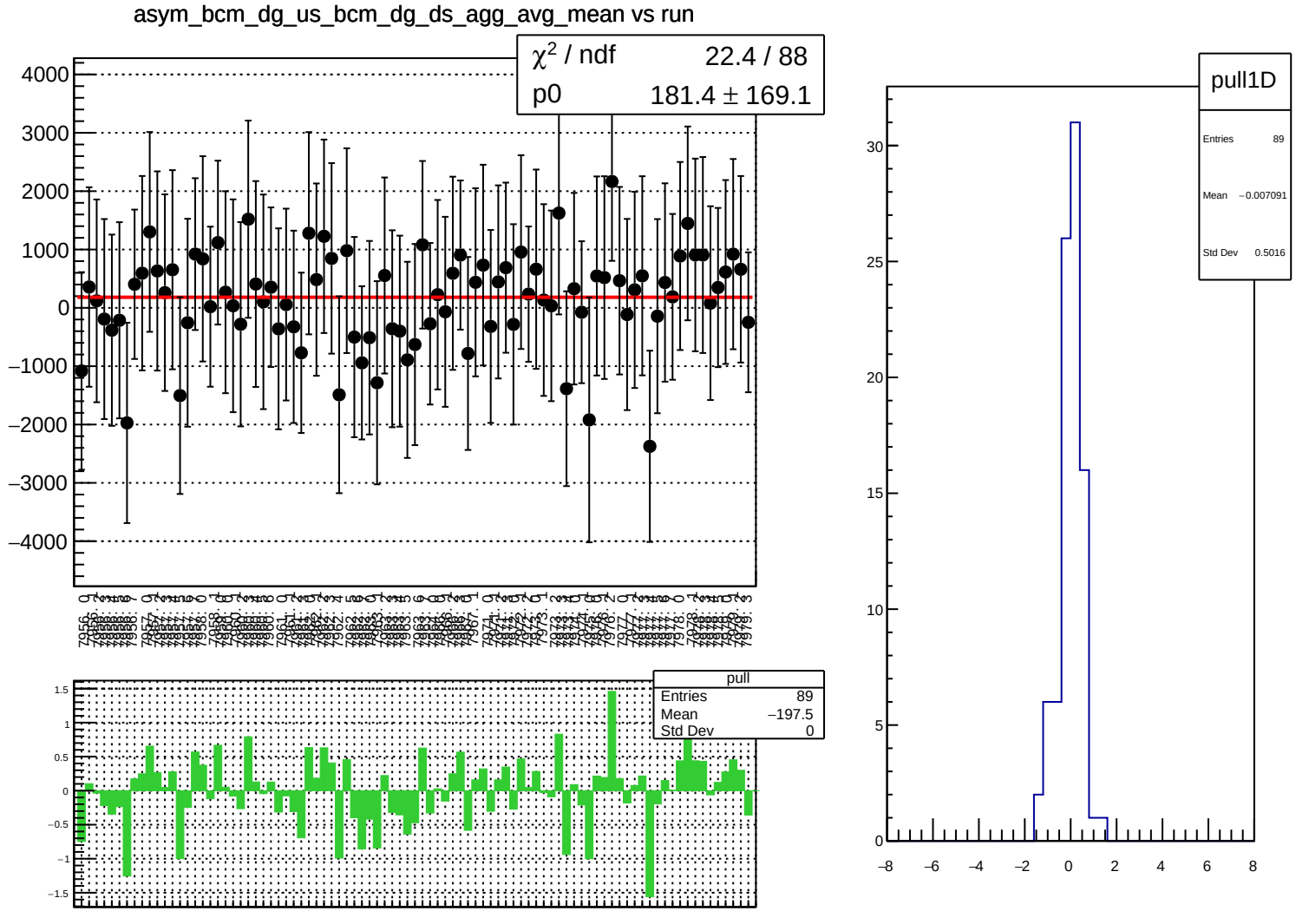

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.79 / 88
p0 189.6 ± 168.8
pull
Entries 89
Mean −149.5
Std Dev 0

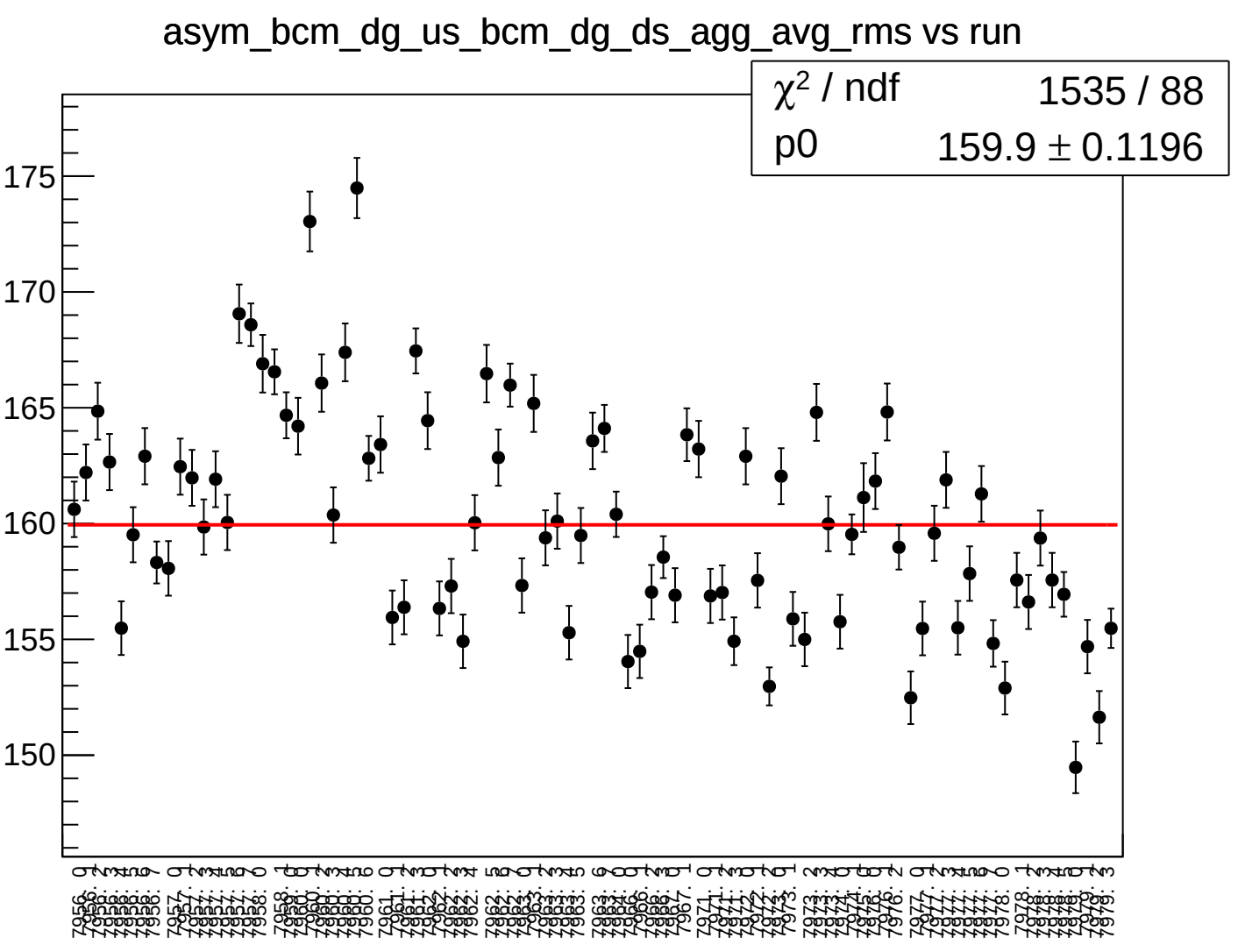

pull1D
Entries 89
Mean −0.008274
Std Dev 0.4947

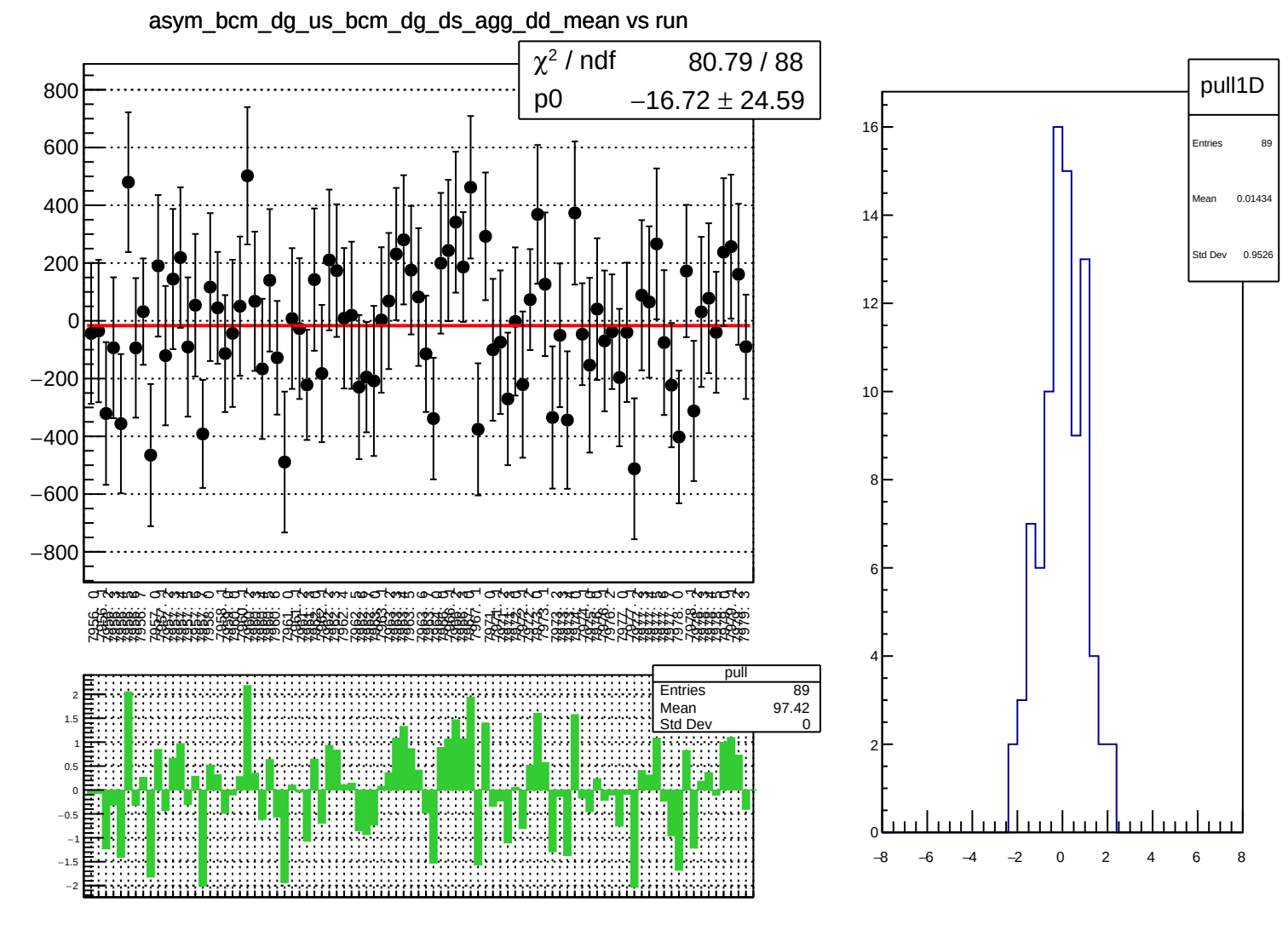

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1611 / 88
p0 159.7 ± 0.1194
175
170
165
160
155
150

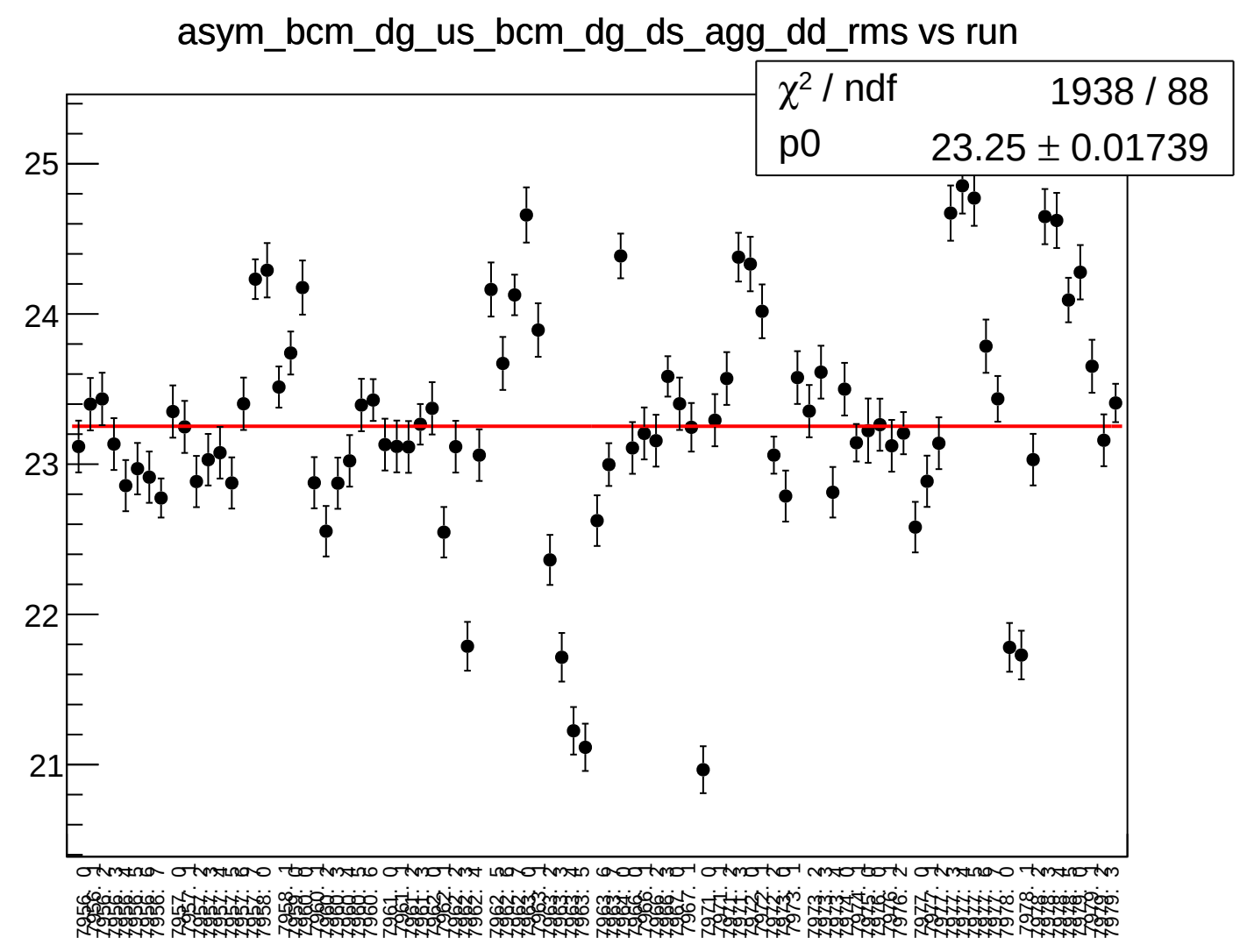

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 62.05 / 88
p0 9.666 ± 17.86
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean 65.1
Std Dev 68.51
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01166
Std Dev 0.8349
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

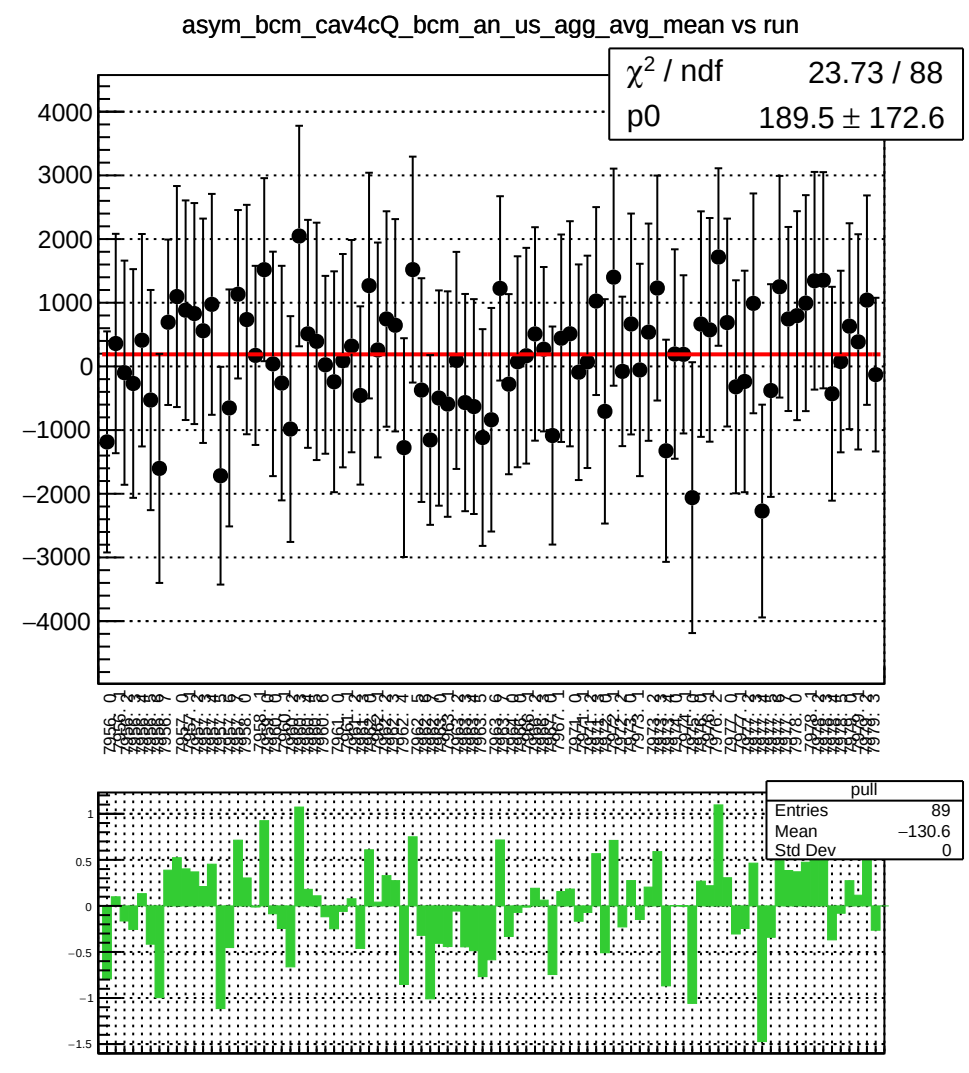

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3962 / 88
p0 16.88 ± 0.01263
20
19
18
17
16
15

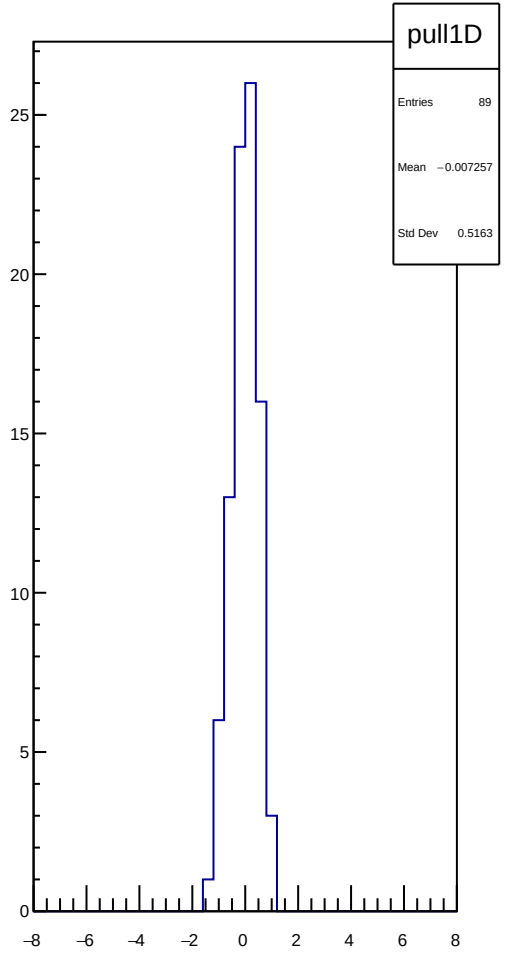

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 22.4 / 88
p0 181.4 ± 169.1
pull
Entries 89
Mean −197.5
Std Dev 0
pull1D
Entries 89
Mean −0.007091
Std Dev 0.5016

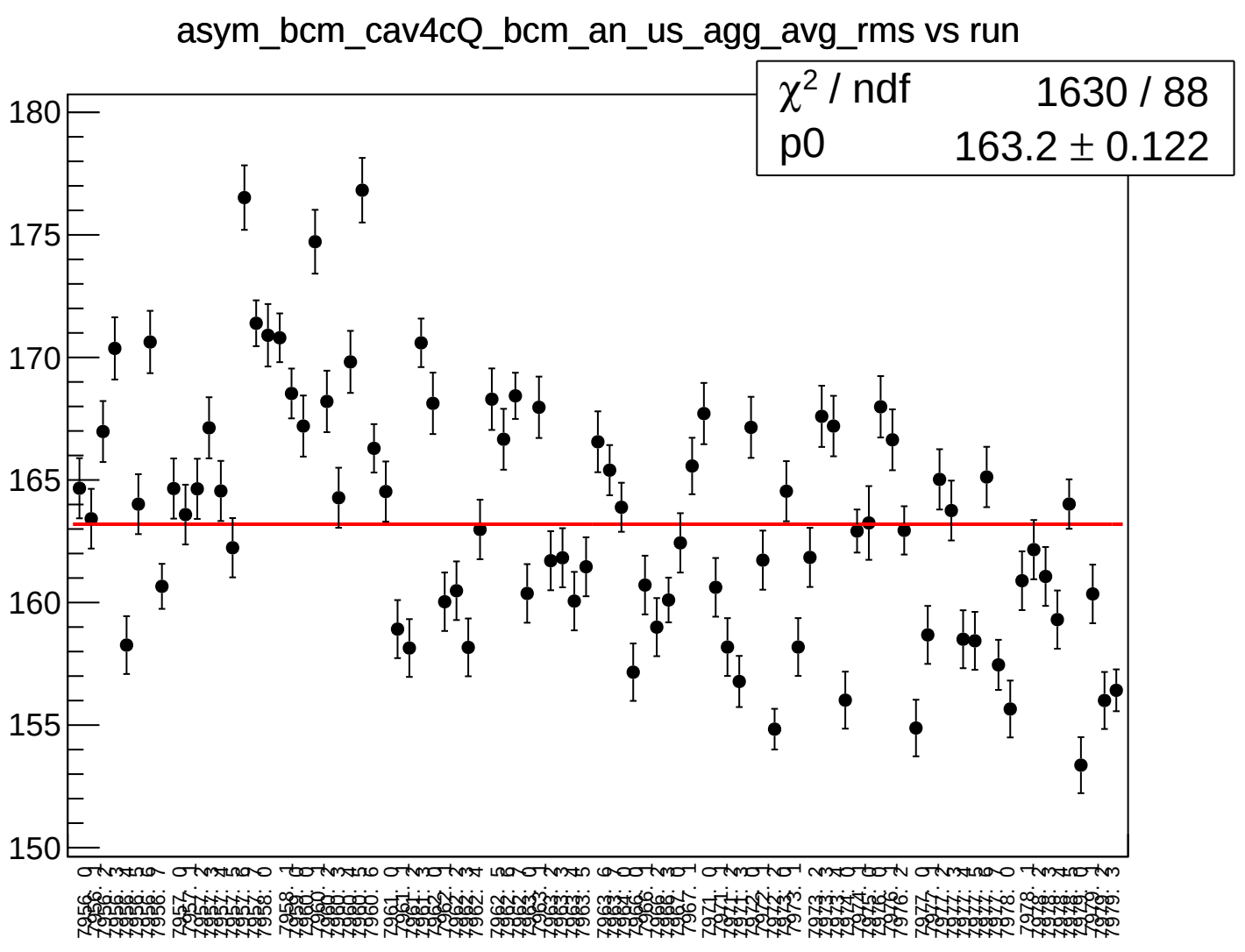

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1535 / 88
p0 159.9 ± 0.1196
175
170
165
160
155
150

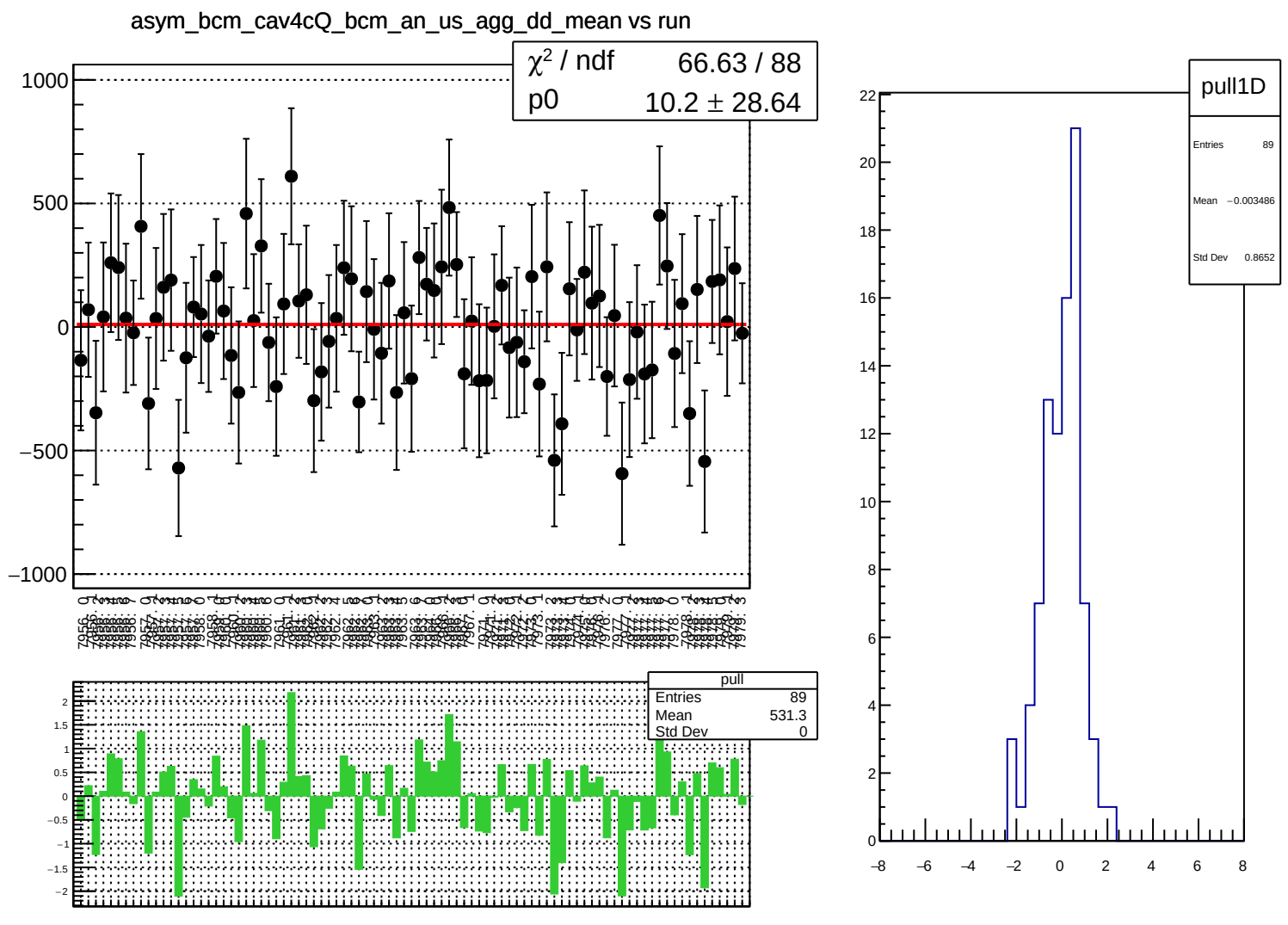

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 80.79 / 88
p0 −16.72 ± 24.59
pull
Entries 89
Mean 97.42
Std Dev 0
pull1D
Entries 89
Mean 0.01434
Std Dev 0.9526

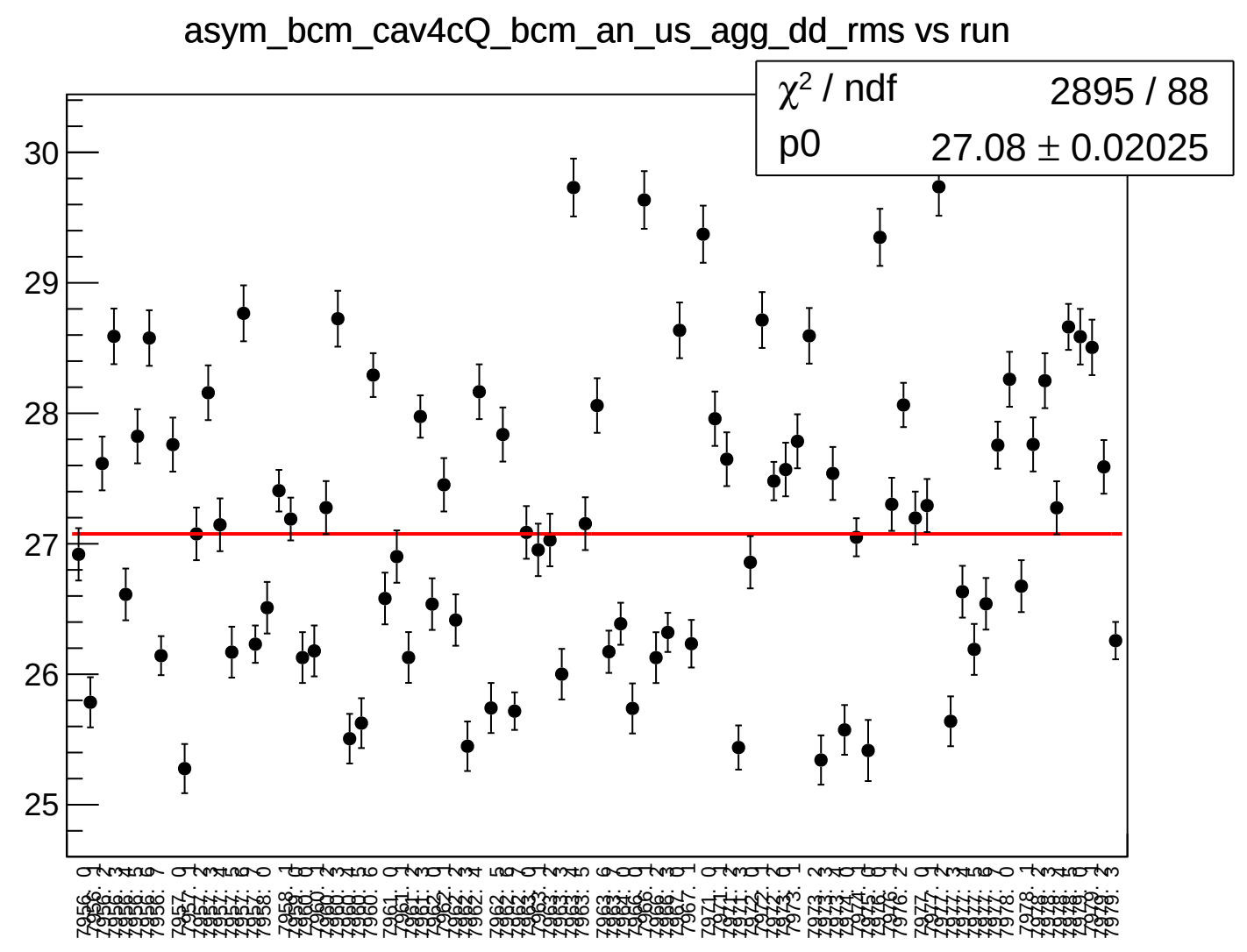

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1938 / 88
p0 23.25 ± 0.01739
25
24
23
22
21

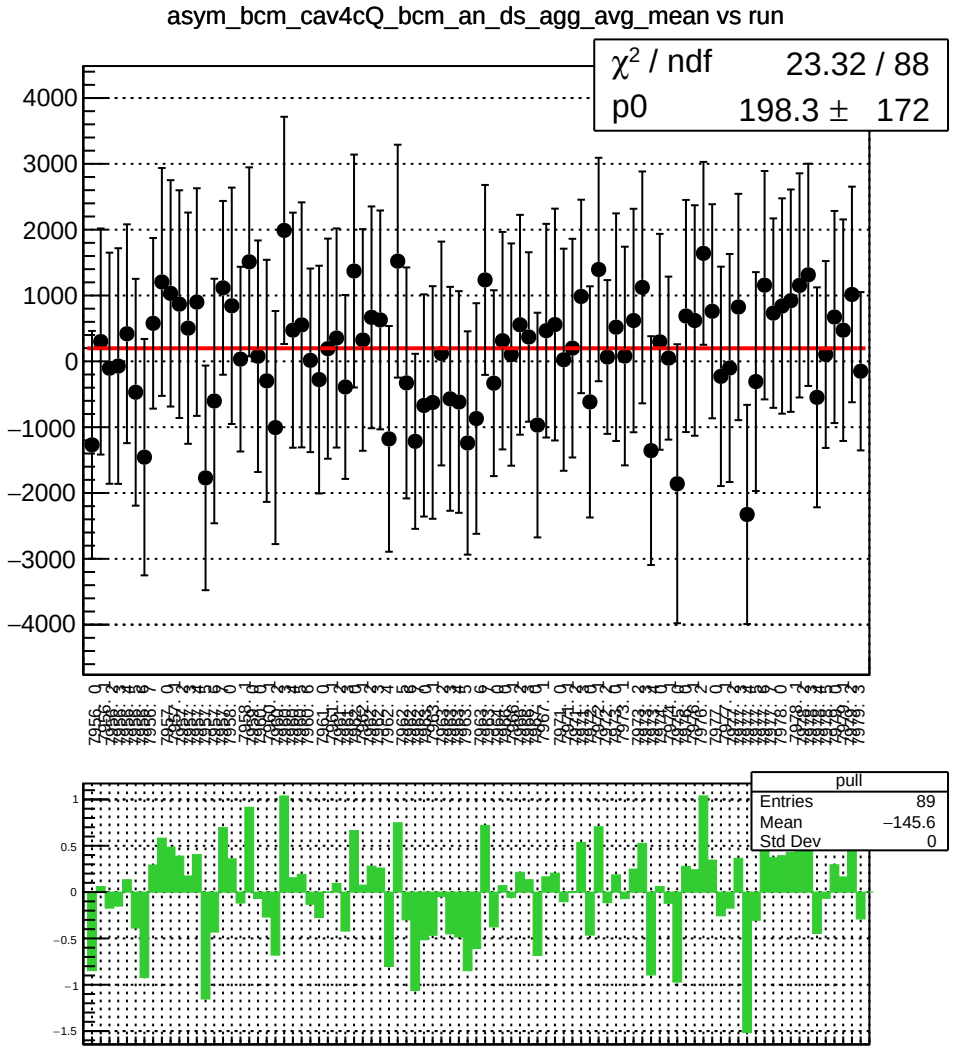

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 23.73 / 88
p0 189.5 ± 172.6
pull
Entries 89
Mean −130.6
Std Dev 0

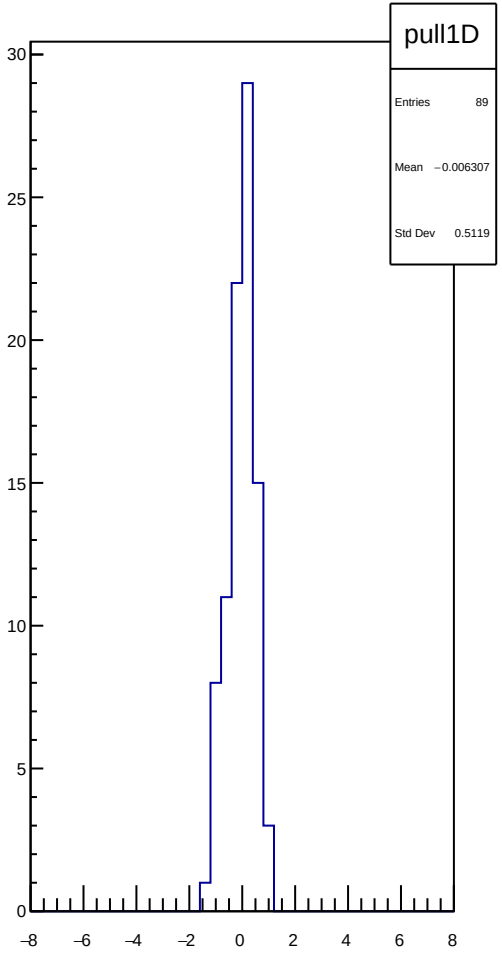

pull1D
Entries 89
Mean −0.007257
Std Dev 0.5163

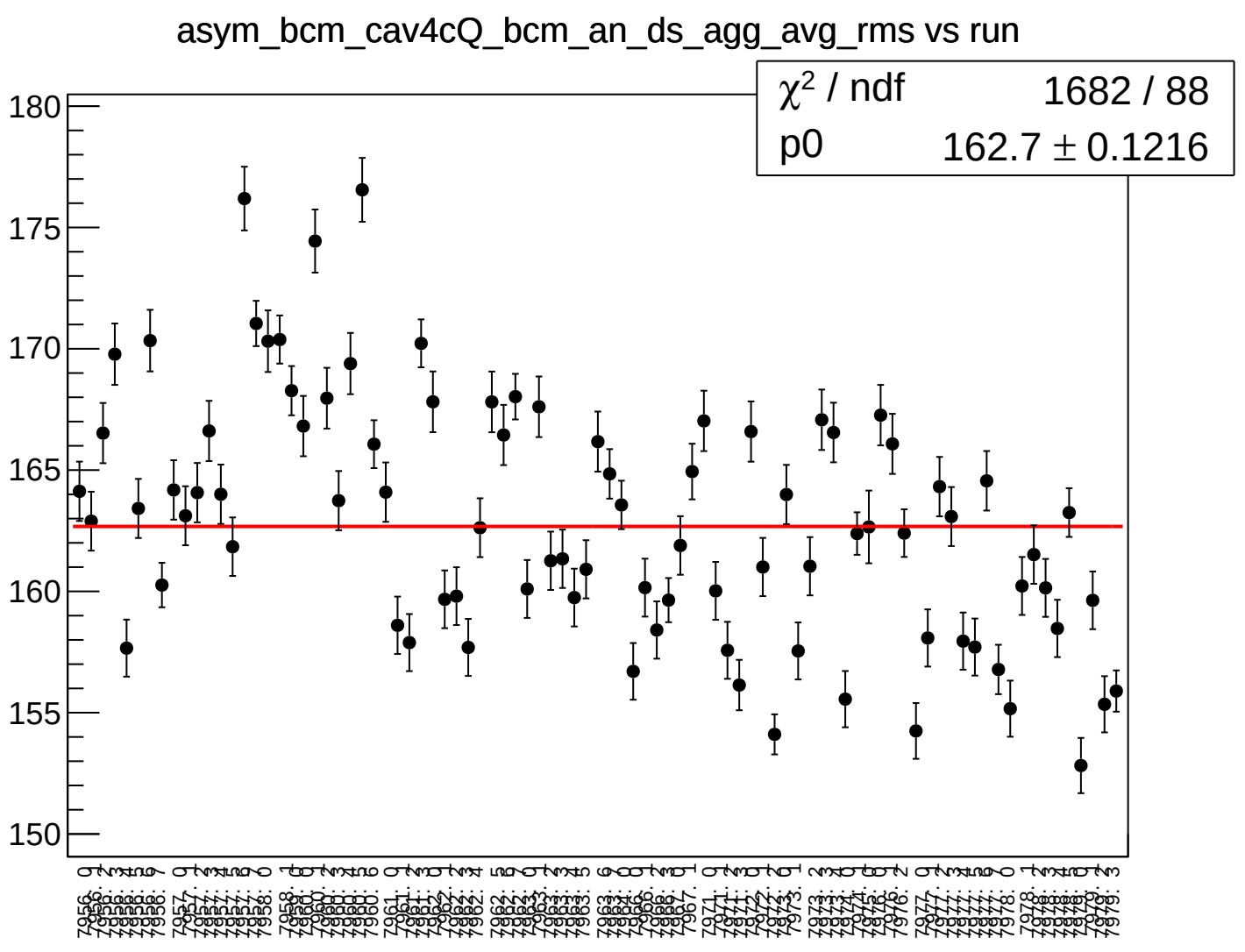

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1630 / 88
p0 163.2 ± 0.122
180
175
170
165
160
155
150

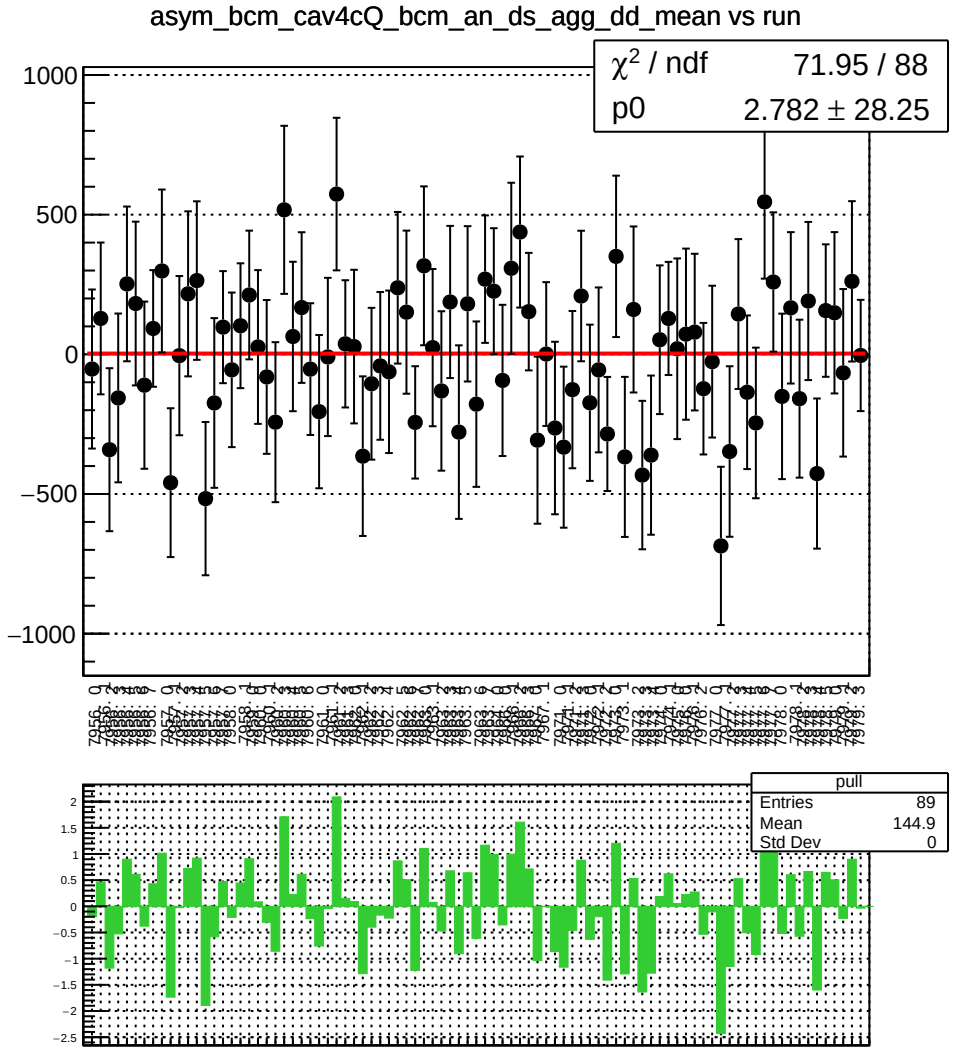

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 66.63 / 88
p0 10.2 ± 28.64
1000
500
0
−500
−1000
pull
Entries 89
Mean 531.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.003486
Std Dev 0.8652
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

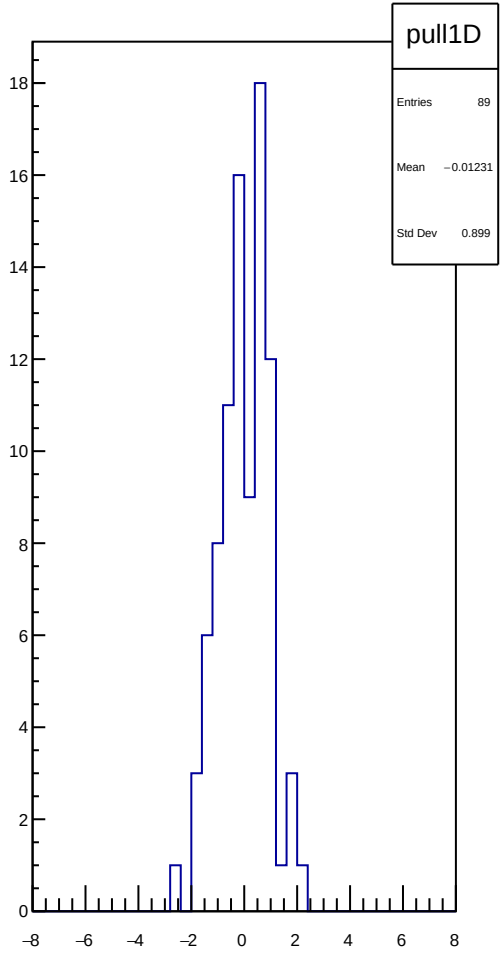

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2895 / 88
p0 27.08 ± 0.02025
30
29
28
27
26
25

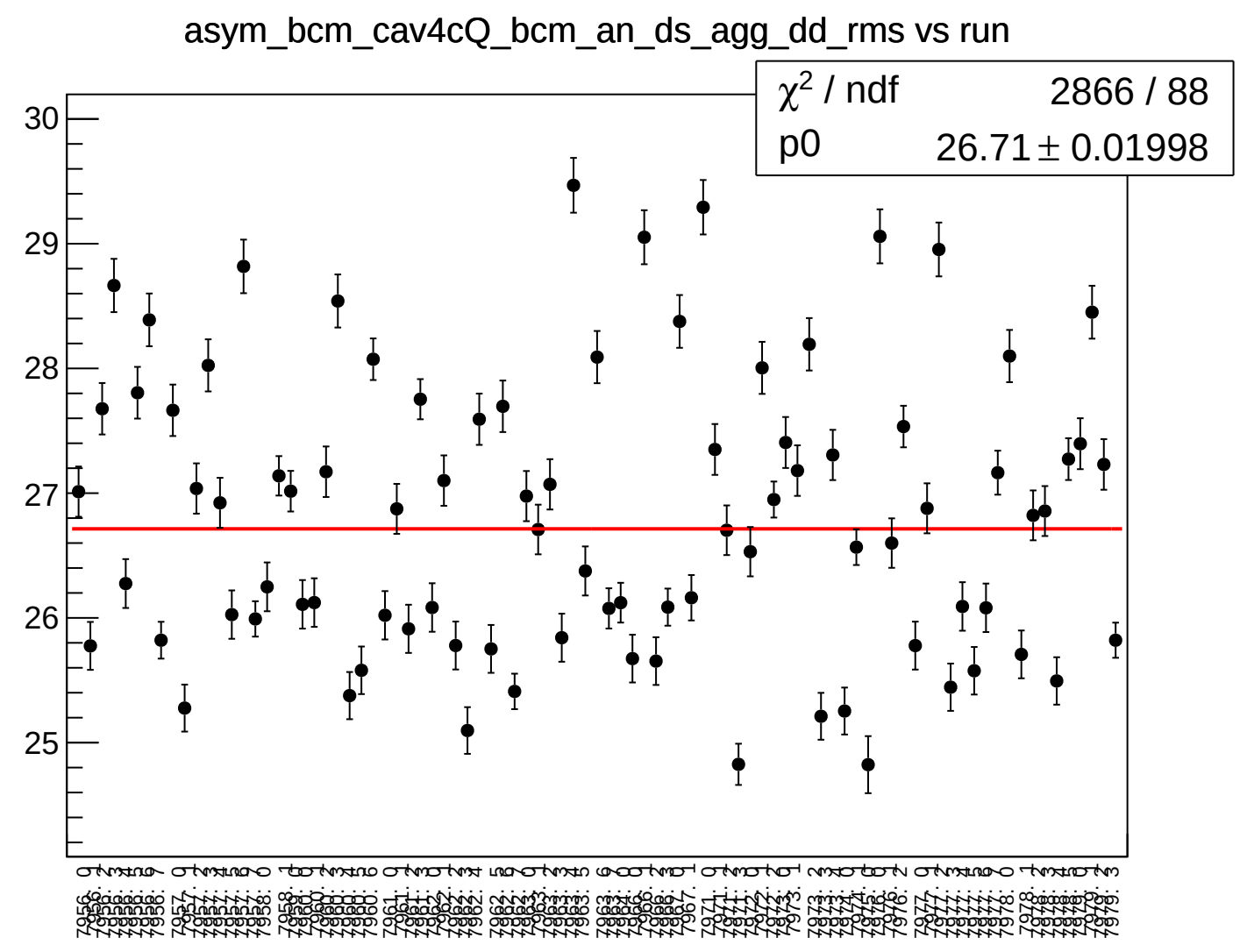

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.32 / 88
p0 198.3 ± 172
pull
Entries 89
Mean −145.6
Std Dev 0

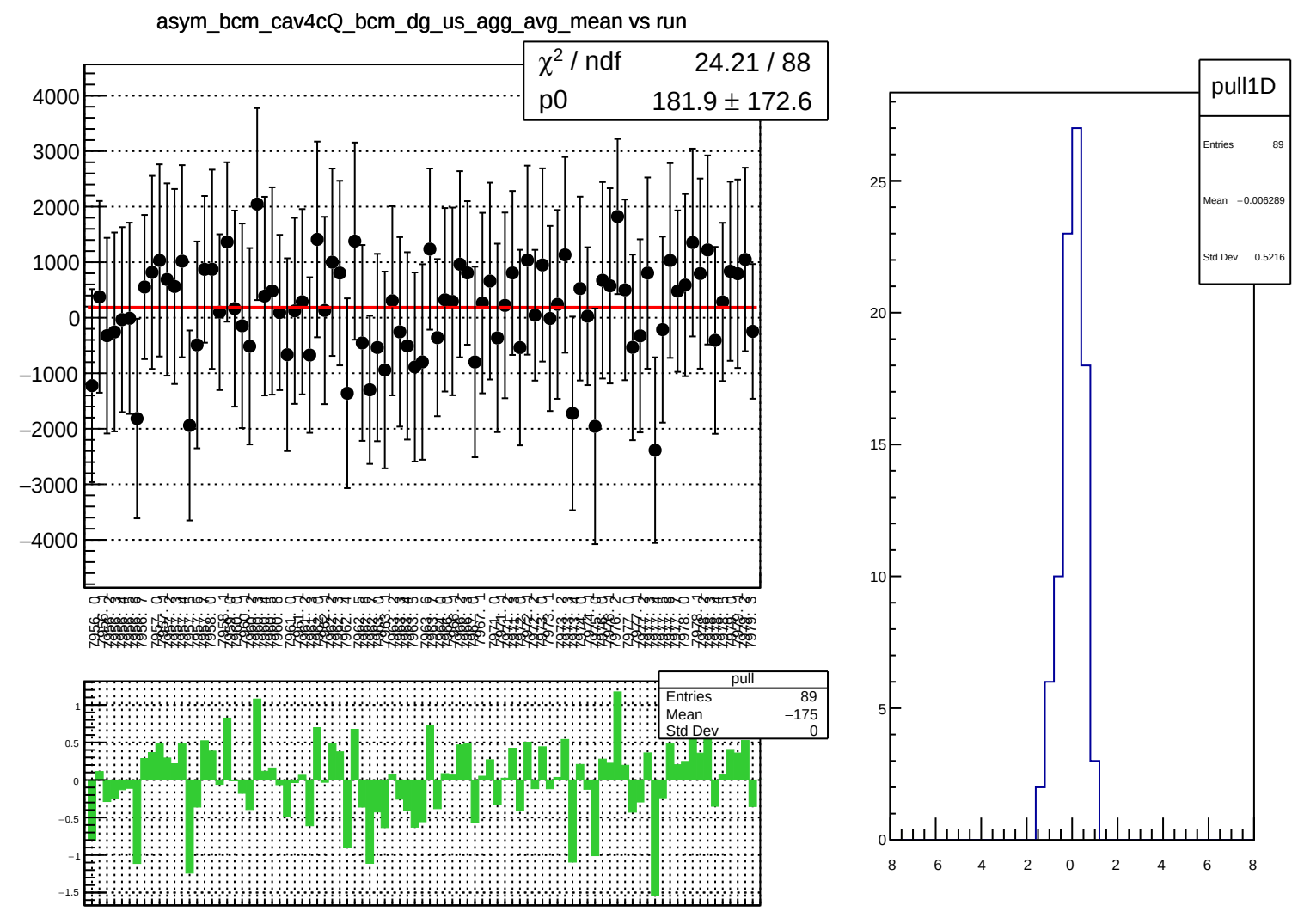

pull1D
Entries 89
Mean −0.006307
Std Dev 0.5119

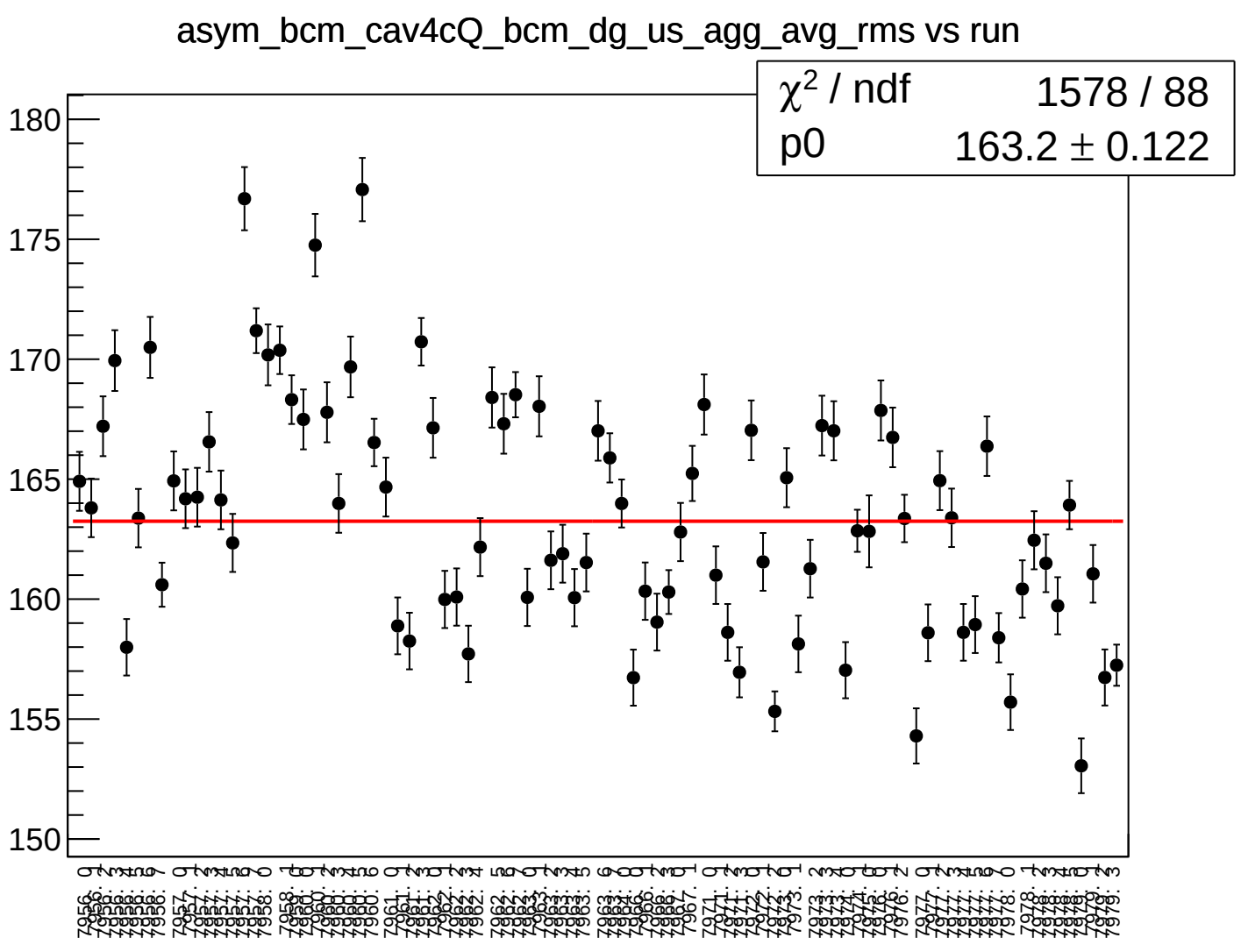

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1682 / 88
p0 162.7 ± 0.1216
180
175
170
165
160
155
150

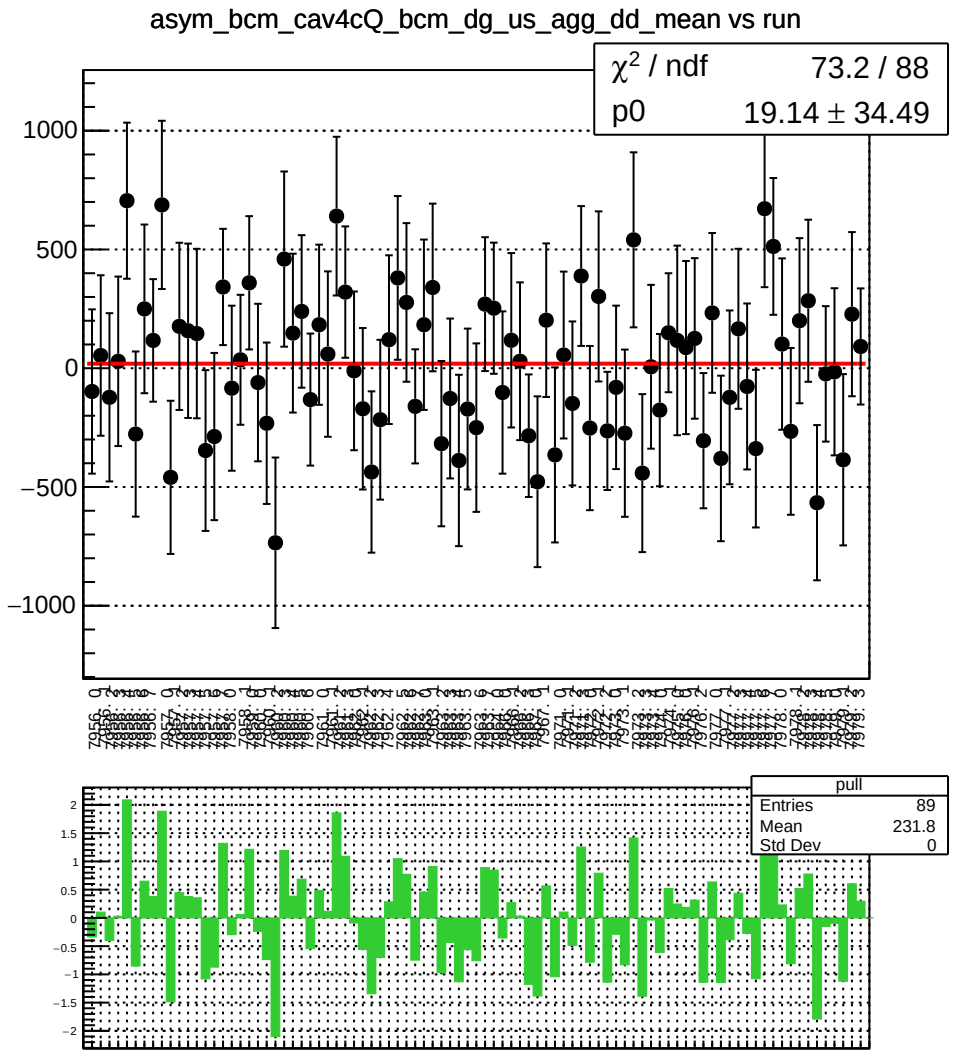

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 71.95 / 88
p0 2.782 ± 28.25
1000
500
0
−500
−1000
pull
Entries 89
Mean 144.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

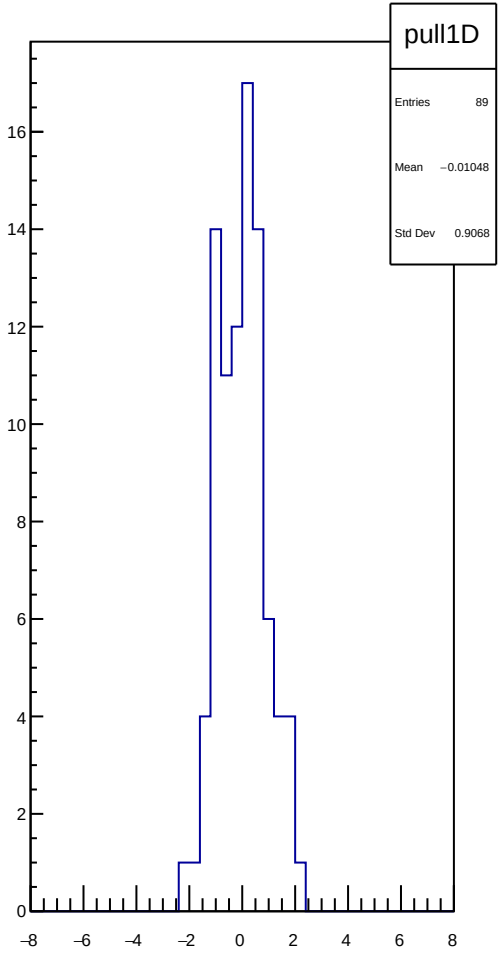

pull1D
Entries 89
Mean −0.01231
Std Dev 0.899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

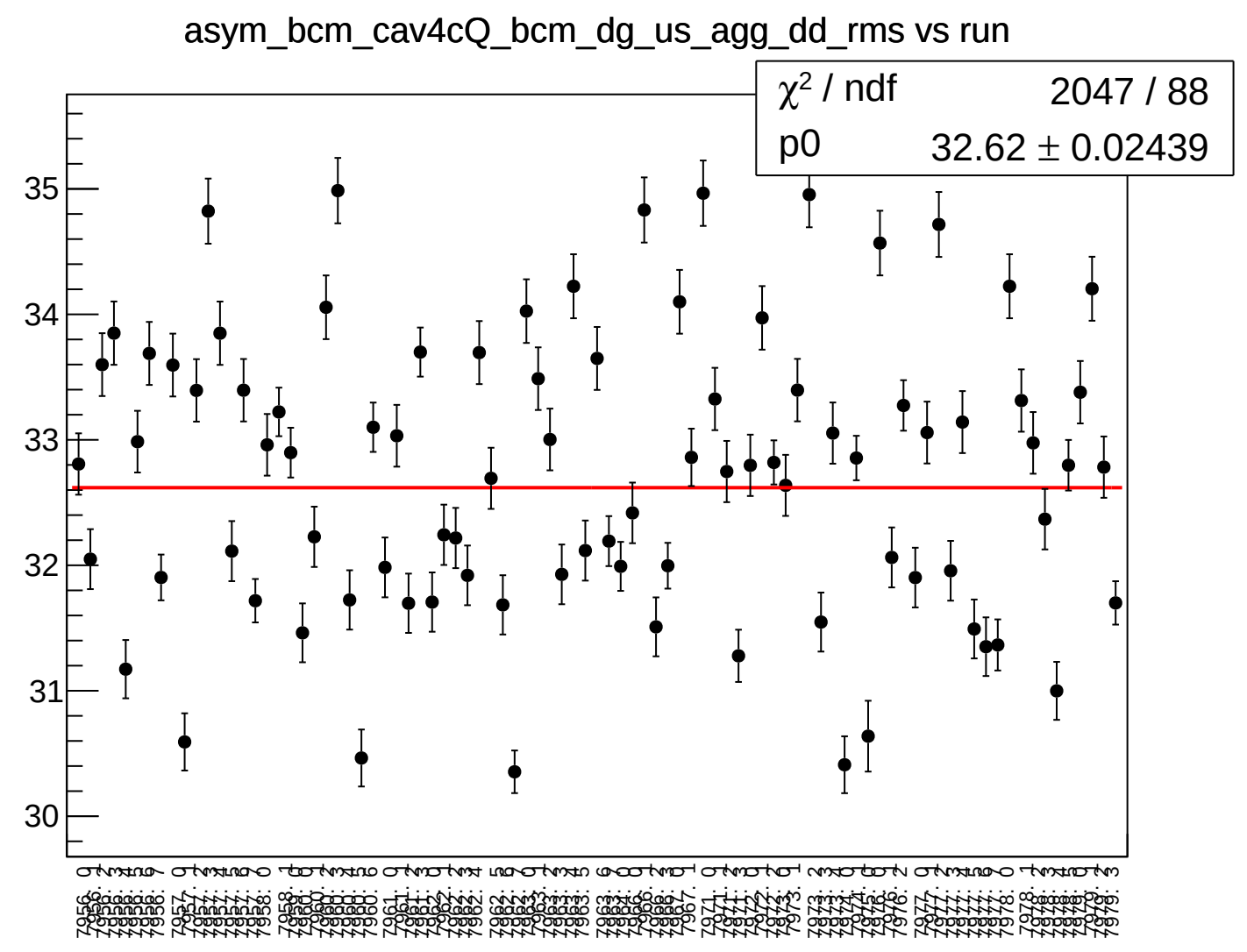

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2866 / 88
p0 26.71 ± 0.01998
30
29
28
27
26
25

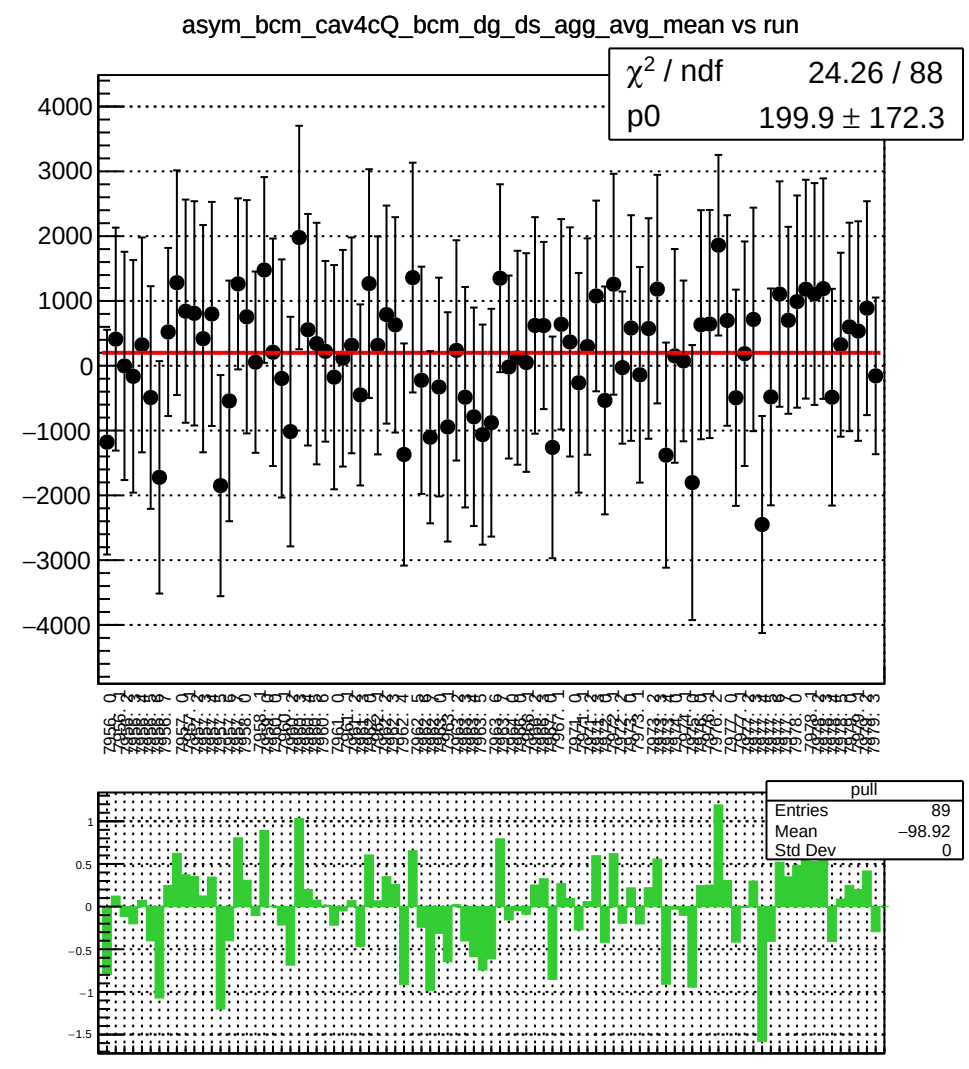

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 24.21 / 88
p0 181.9 ± 172.6
pull
Entries 89
Mean −175
Std Dev 0
pull1D
Entries 89
Mean −0.006289
Std Dev 0.5216

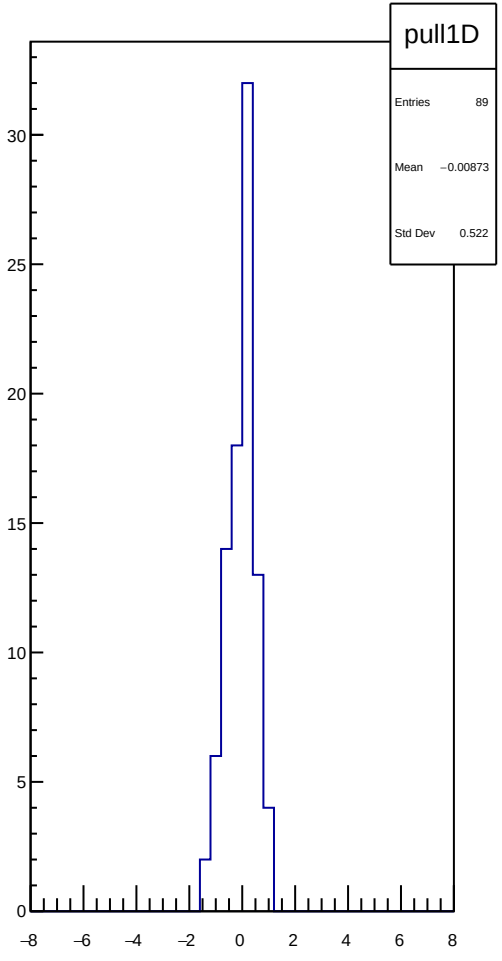

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1578 / 88
p0 163.2 ± 0.122
180
175
170
165
160
155
150

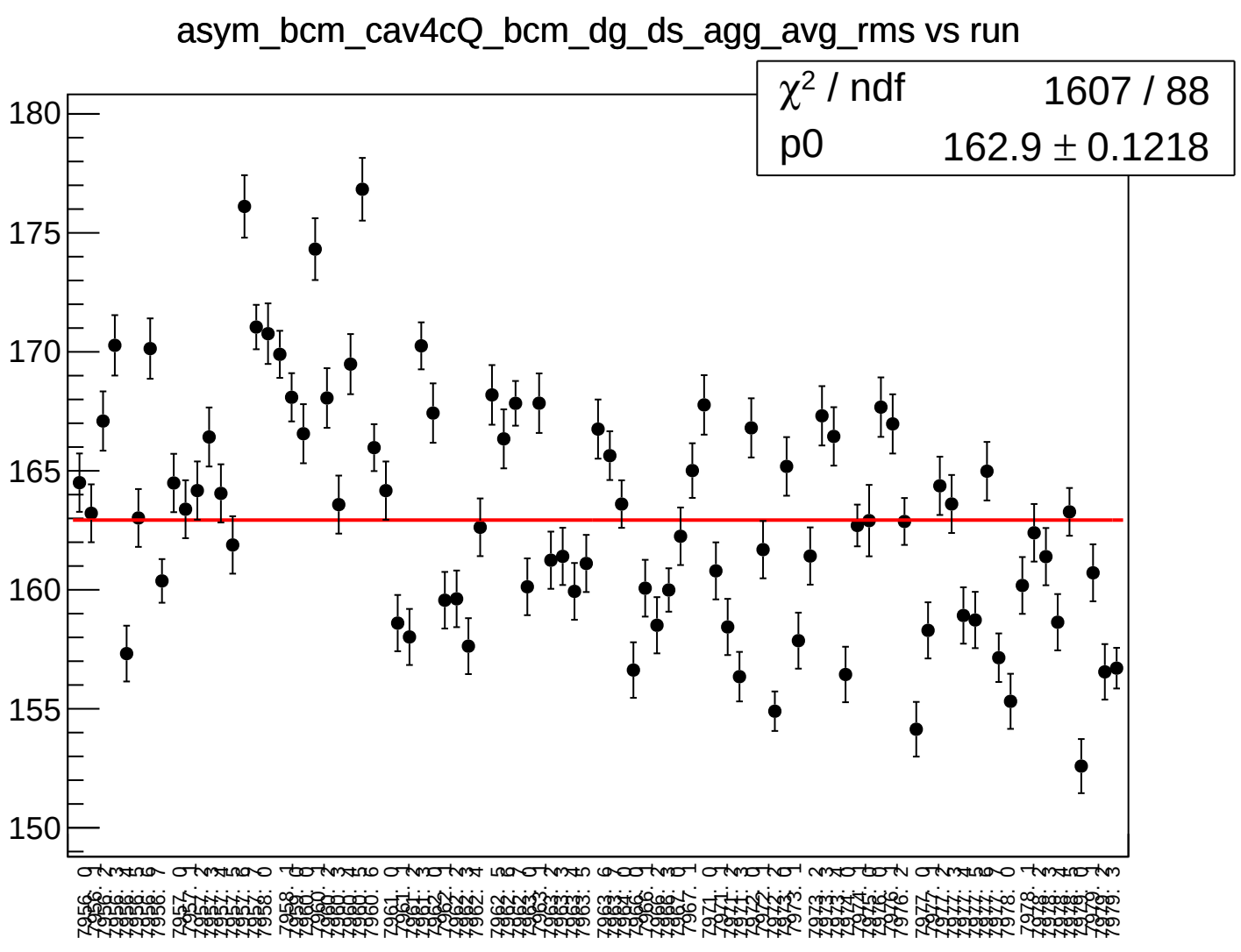

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 73.2 / 88
p0 19.14 ± 34.49
1000
500
0
−500
−1000
pull
Entries 89
Mean 231.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

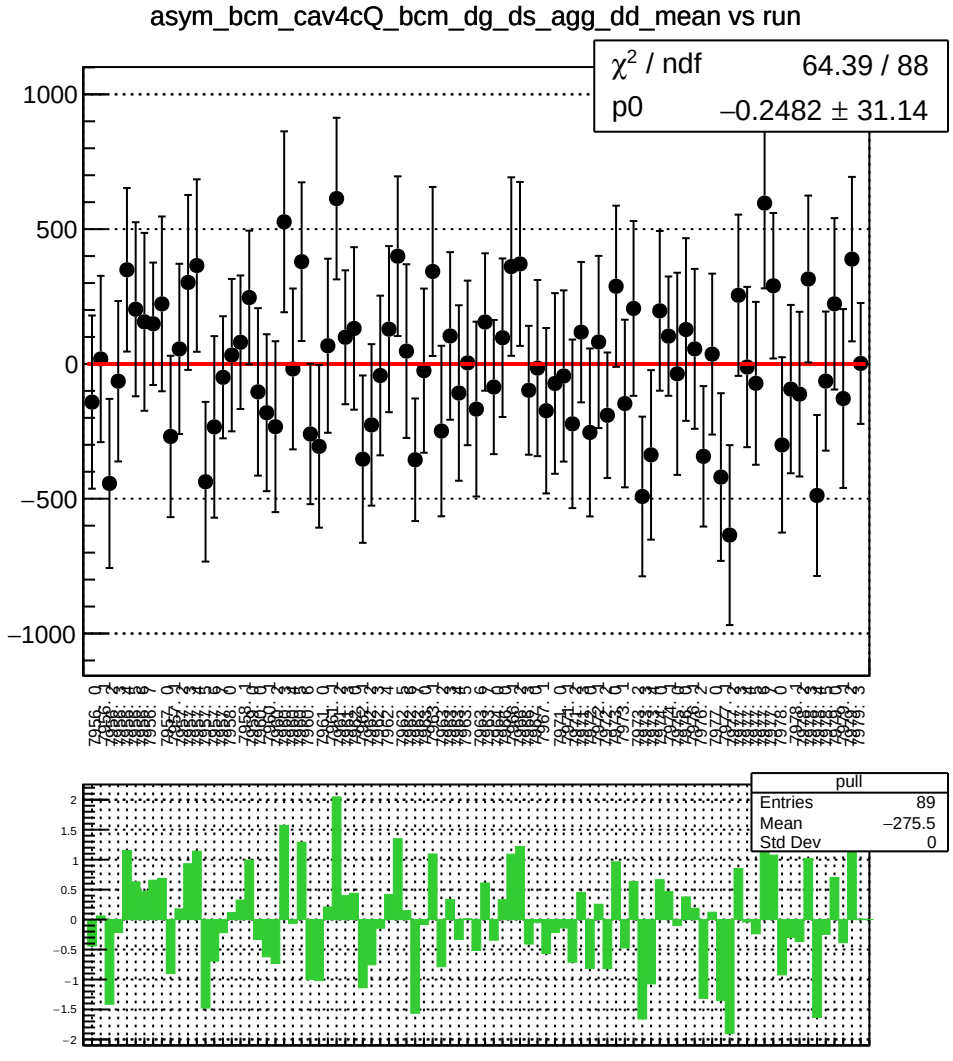

pull1D
Entries 89
Mean −0.01048
Std Dev 0.9068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

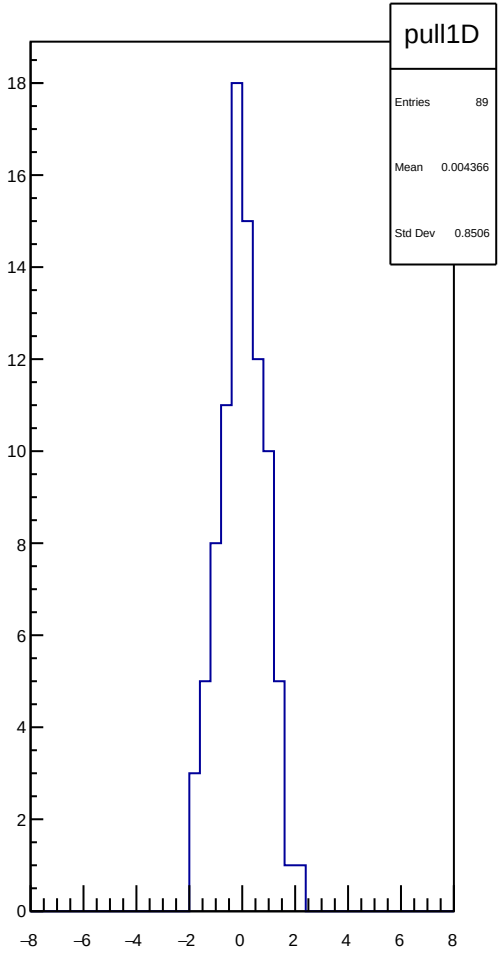

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2047 / 88
p0 32.62 ± 0.02439
35
34
33
32
31
30

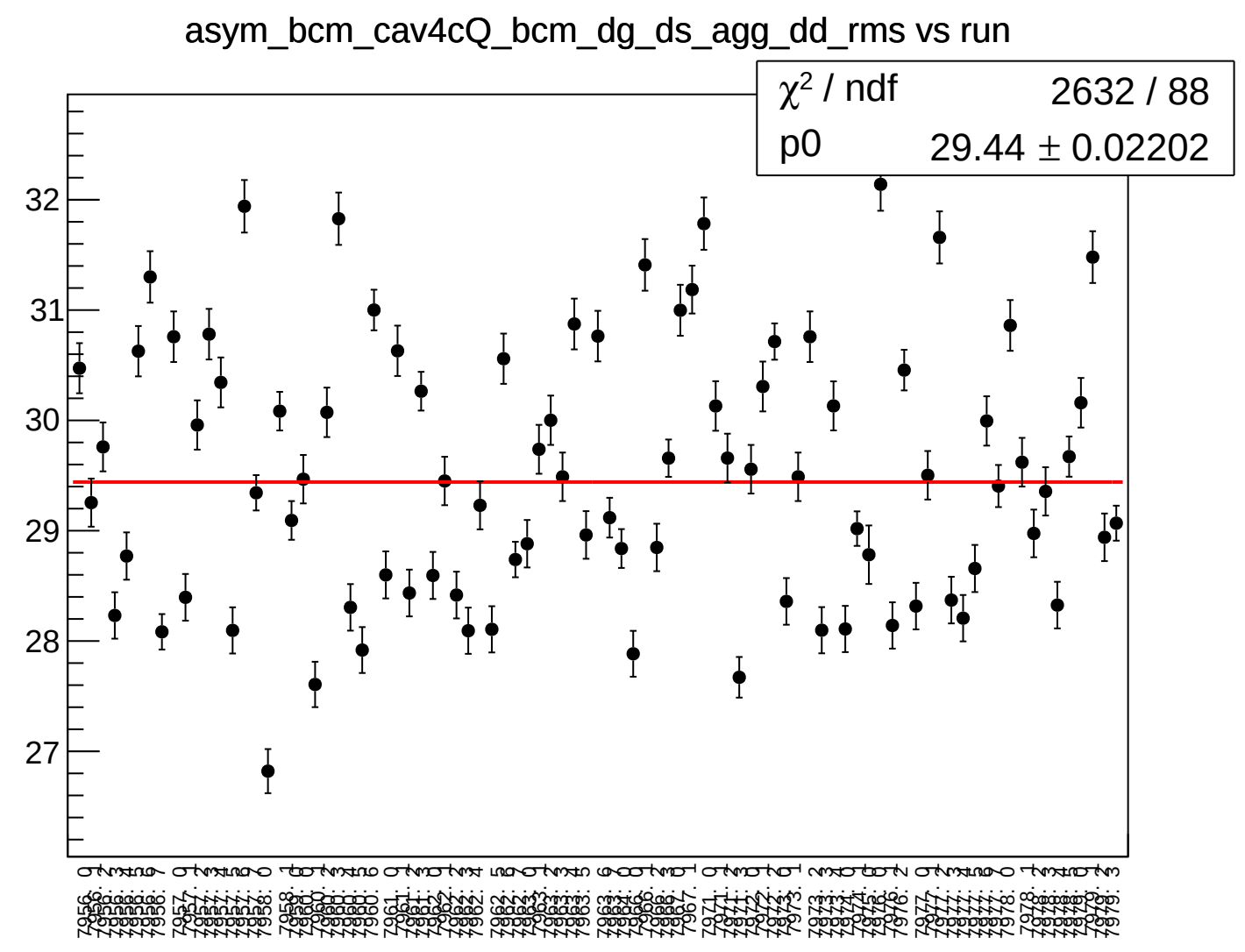

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 24.26 / 88
p0 199.9 ± 172.3
pull
Entries 89
Mean −98.92
Std Dev 0

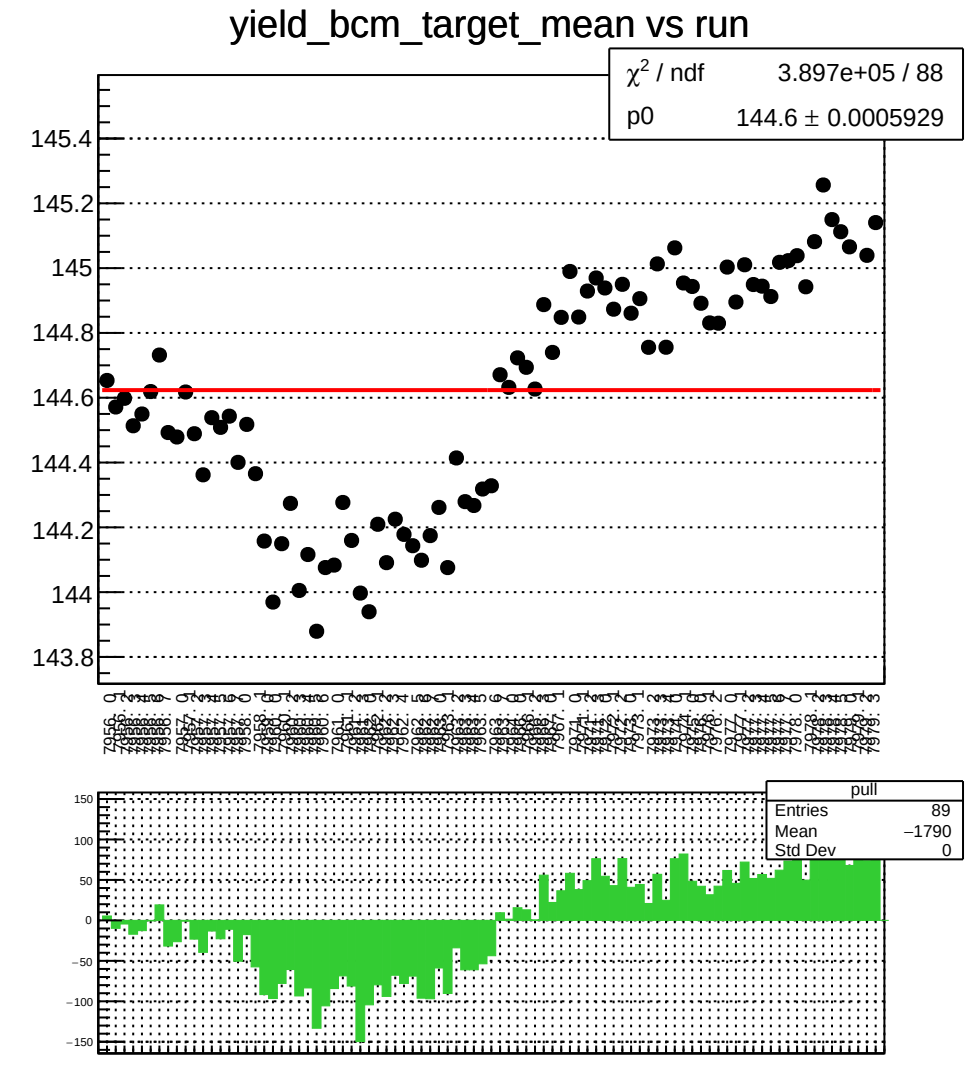

pull1D
Entries 89
Mean −0.00873
Std Dev 0.522

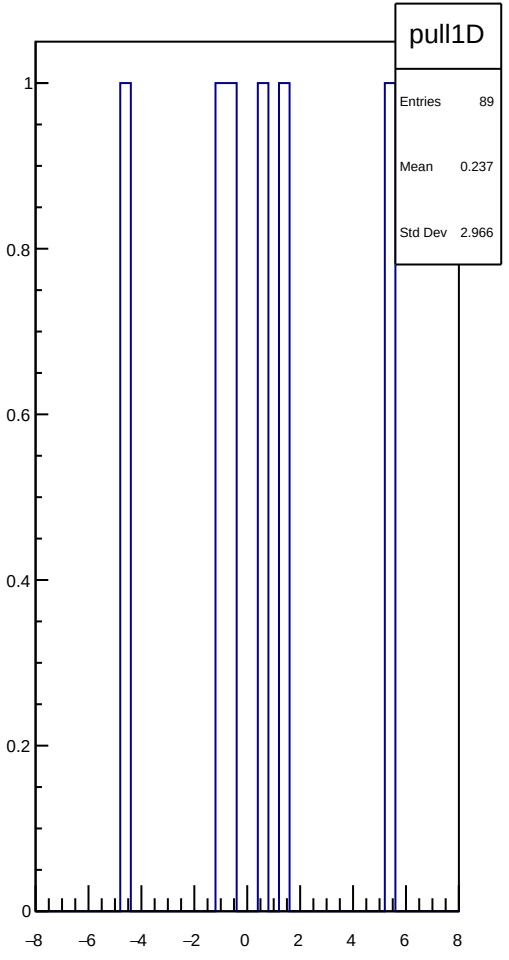

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1607 / 88
p0 162.9 ± 0.1218
180
175
170
165
160
155
150

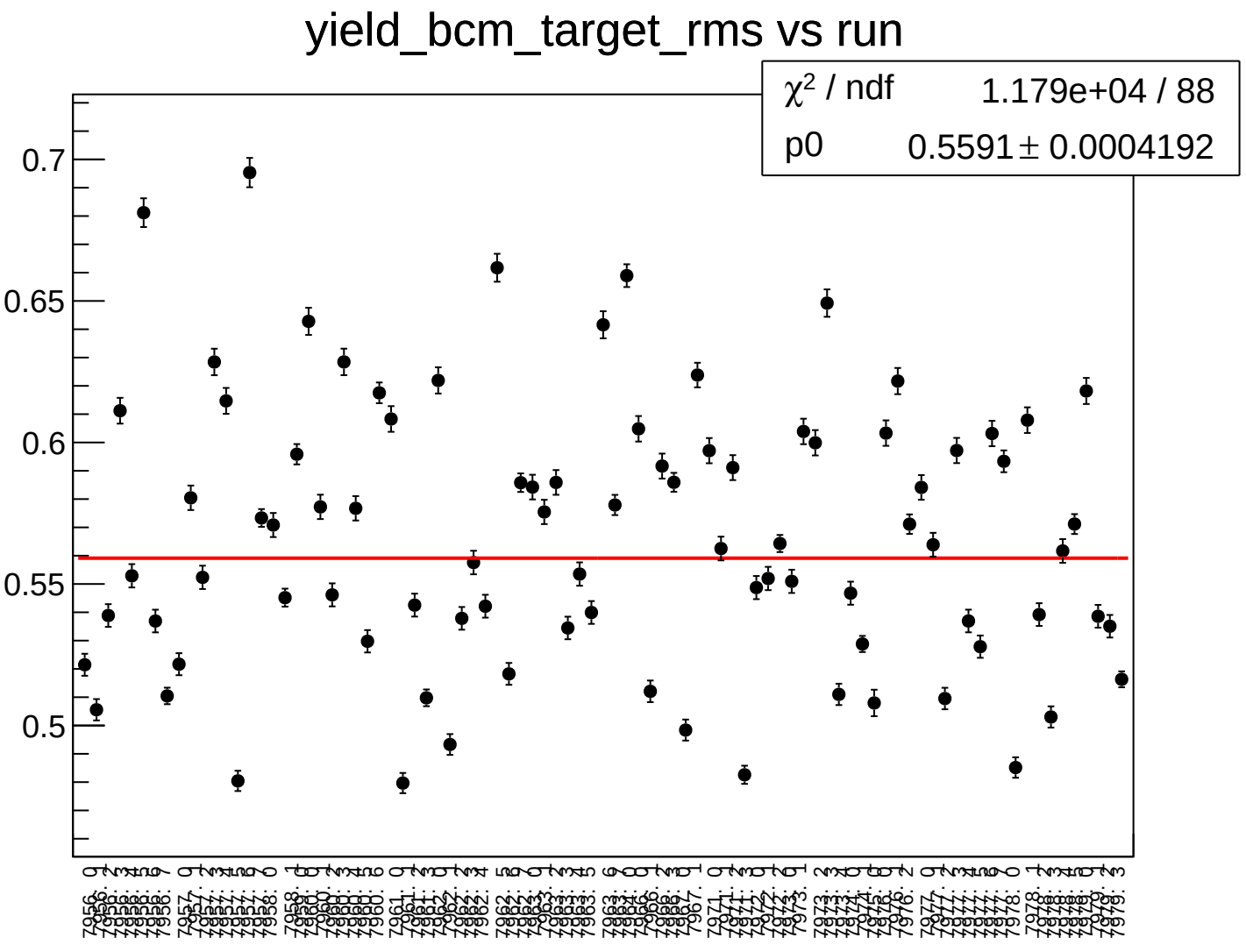

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 64.39 / 88
p0 −0.2482 ± 31.14
1000
500
0
−500
−1000
pull
Entries 89
Mean −275.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

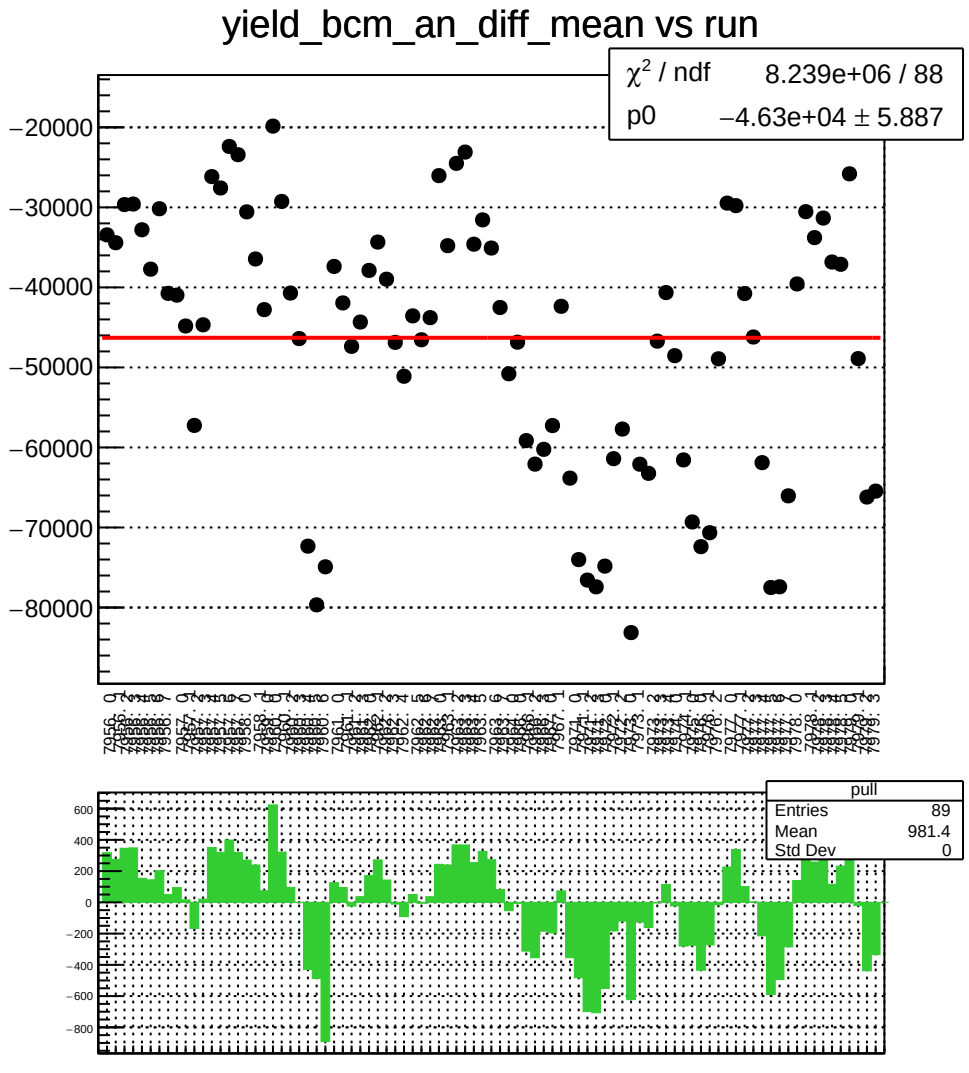

pull1D
Entries 89
Mean 0.004366
Std Dev 0.8506
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

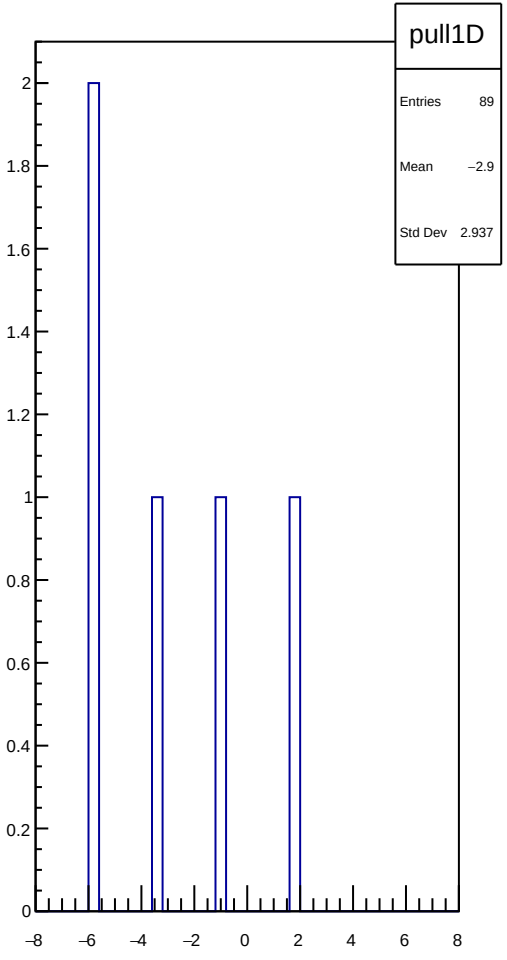

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2632 / 88
p0 29.44 ± 0.02202
32
31
30
29
28
27

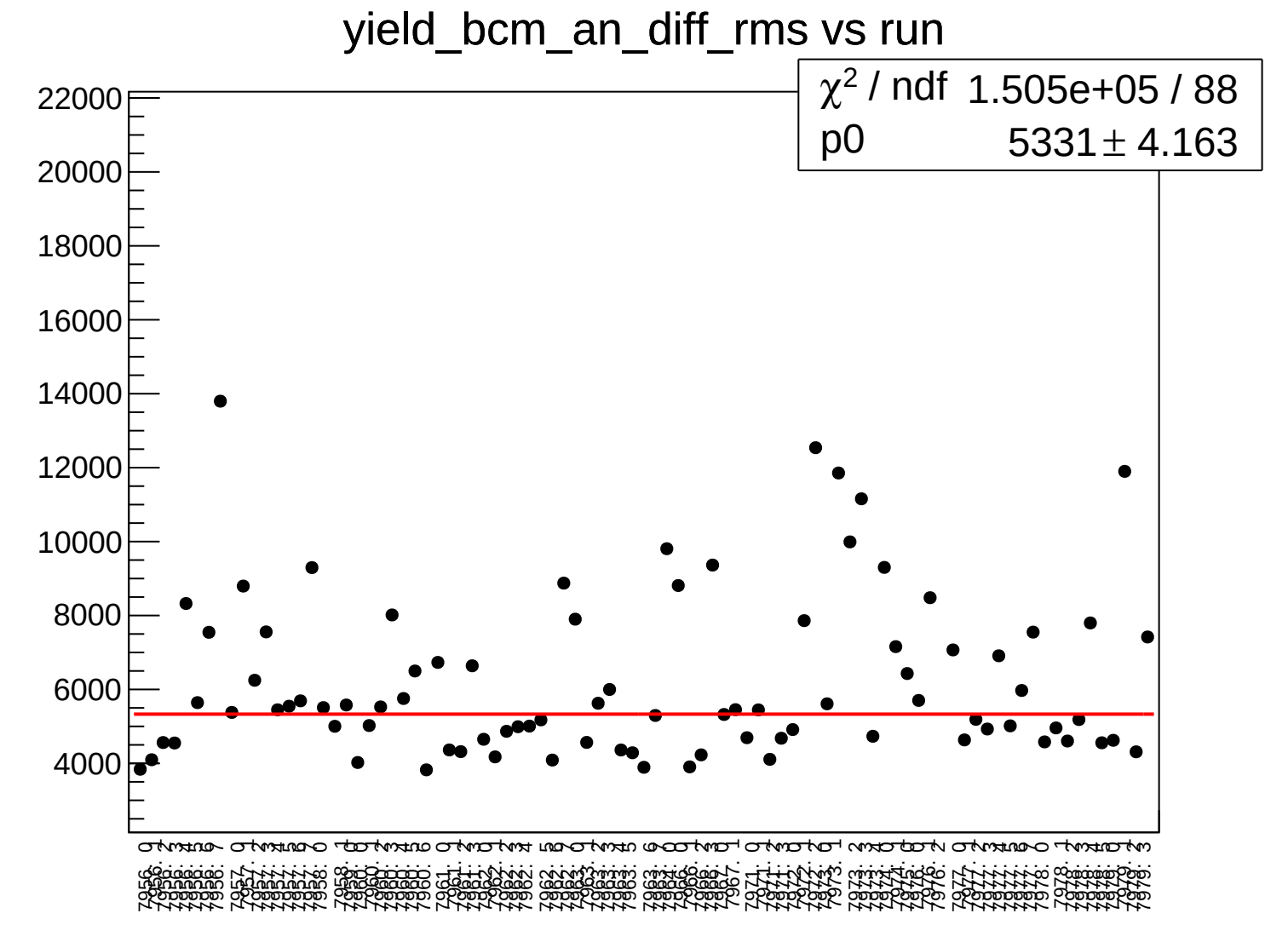

yield_bcm_target_mean vs run
χ² / ndf 3.897e+05 / 88
p0 144.6 ± 0.0005929
145.4
145.2
145
144.8
144.6
144.4
144.2
144
143.8
pull
Entries 89
Mean −1790
Std Dev 0
150
100
50
0
−50
−100
−150

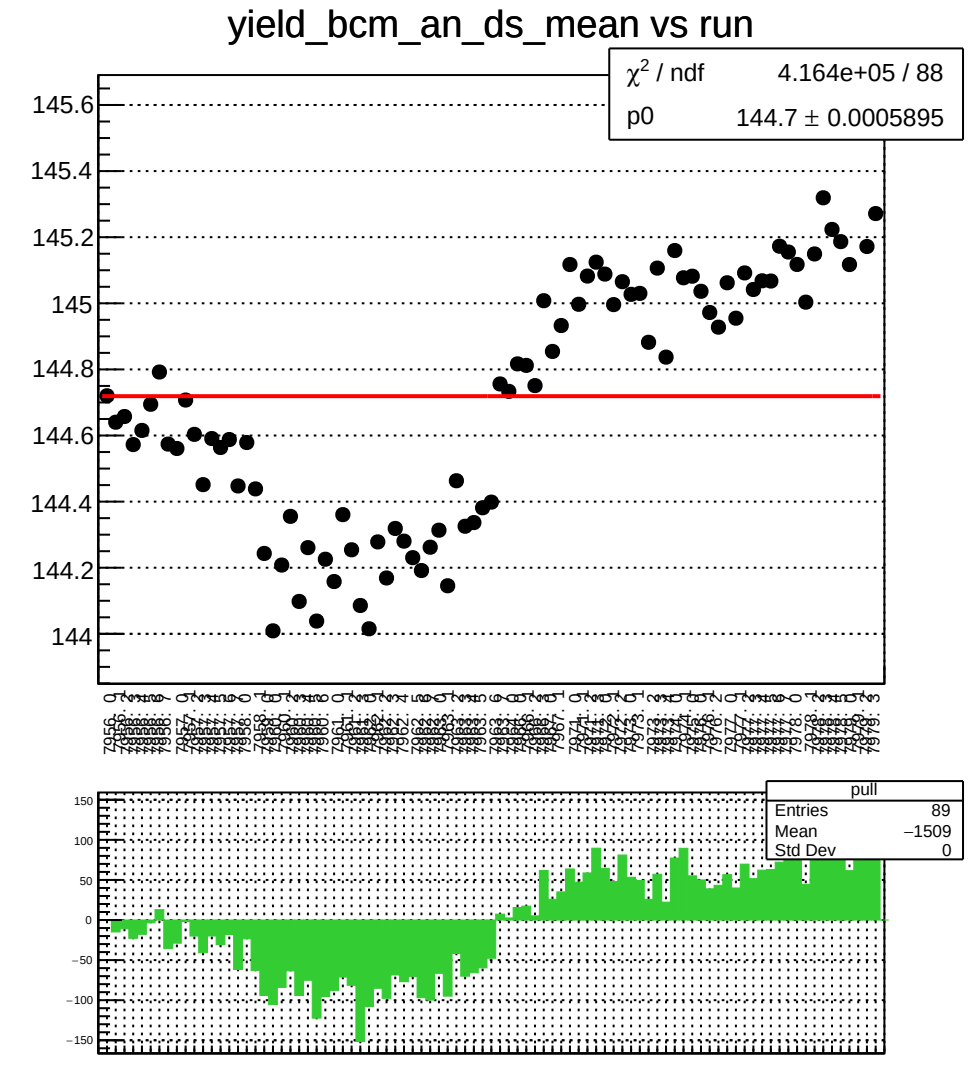

pull1D
Entries 89
Mean 0.237
Std Dev 2.966
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

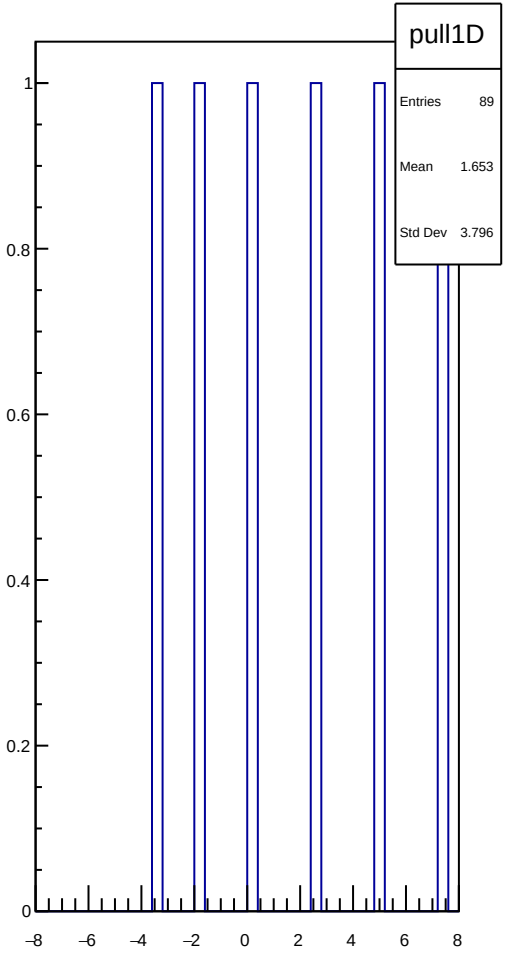

yield_bcm_target_rms vs run
χ² / ndf 1.179e+04 / 88
p0 0.5591 ± 0.0004192
0.7
0.65
0.6
0.55
0.5

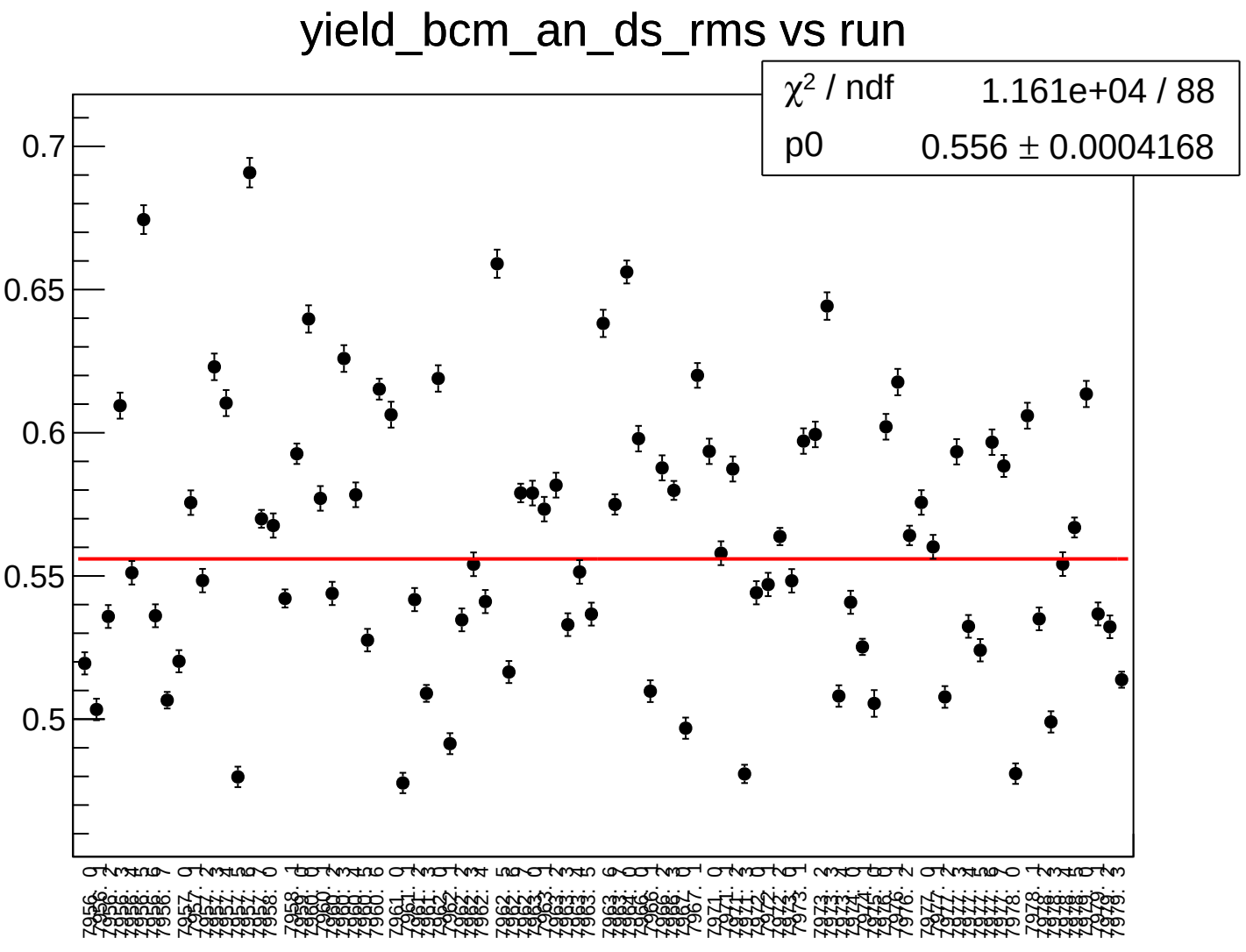

yield_bcm_an_diff_mean vs run
χ² / ndf 8.239e+06 / 88
p0 −4.63e+04 ± 5.887
−20000
−30000
−40000
−50000
−60000
−70000
−80000
pull
Entries 89
Mean 981.4
Std Dev 0
600
400
200
0
−200
−400
−600
−800

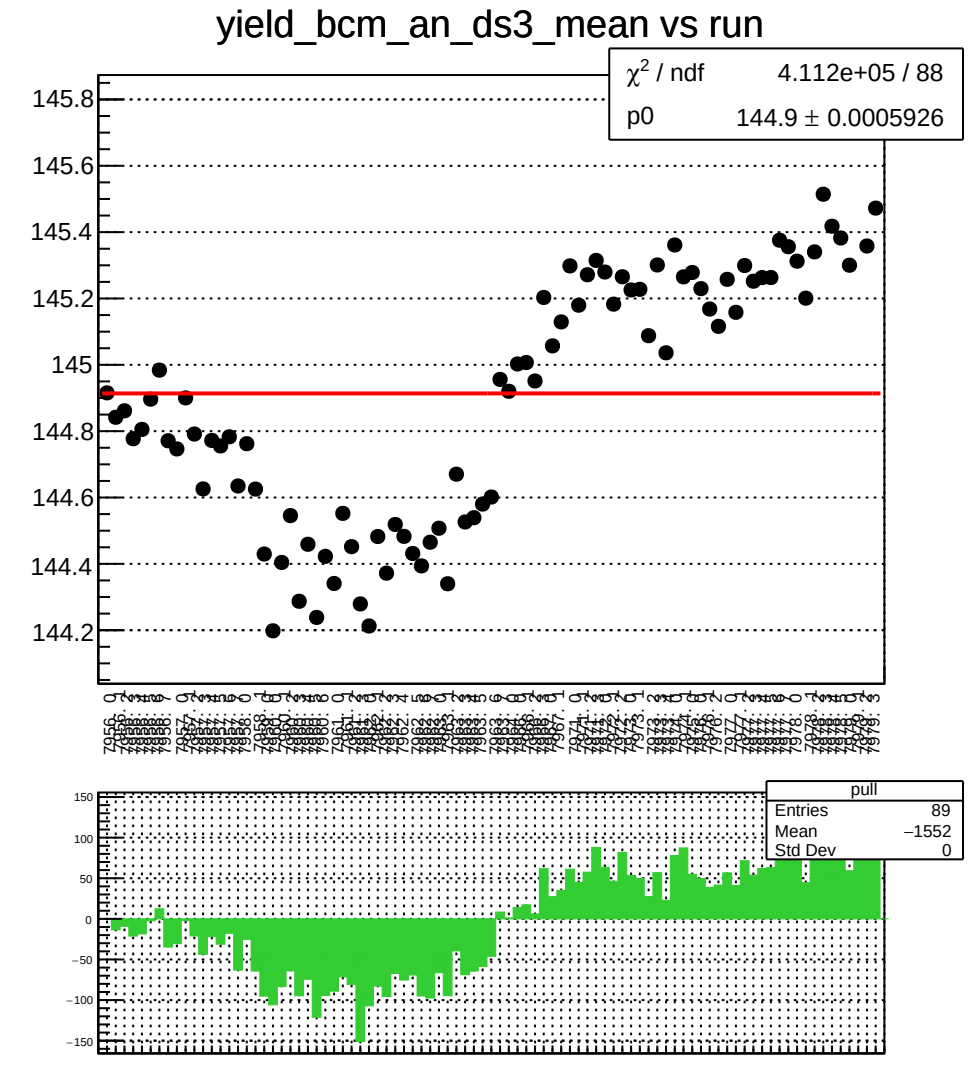

pull1D
Entries 89
Mean −2.9
Std Dev 2.937
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

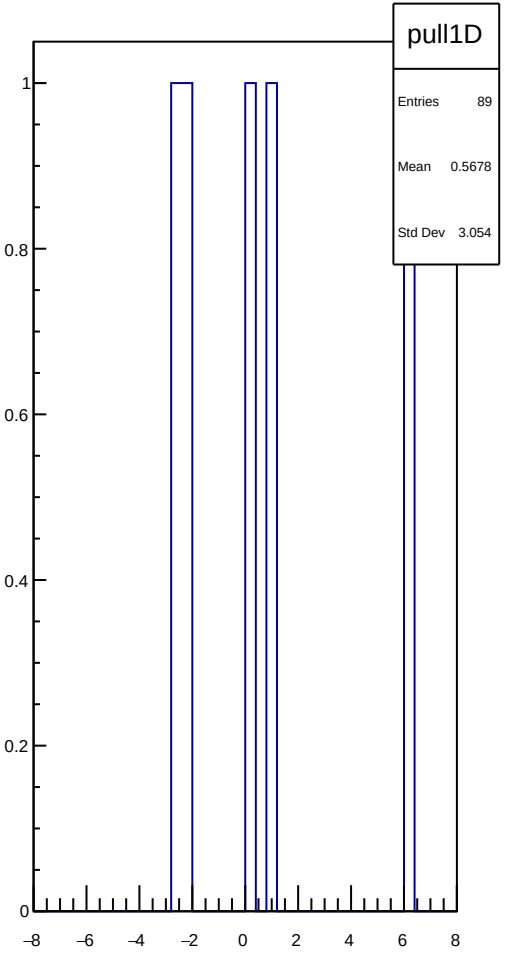

yield_bcm_an_diff_rms vs run
χ² / ndf 1.505e+05 / 88
p0 5331 ± 4.163
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000

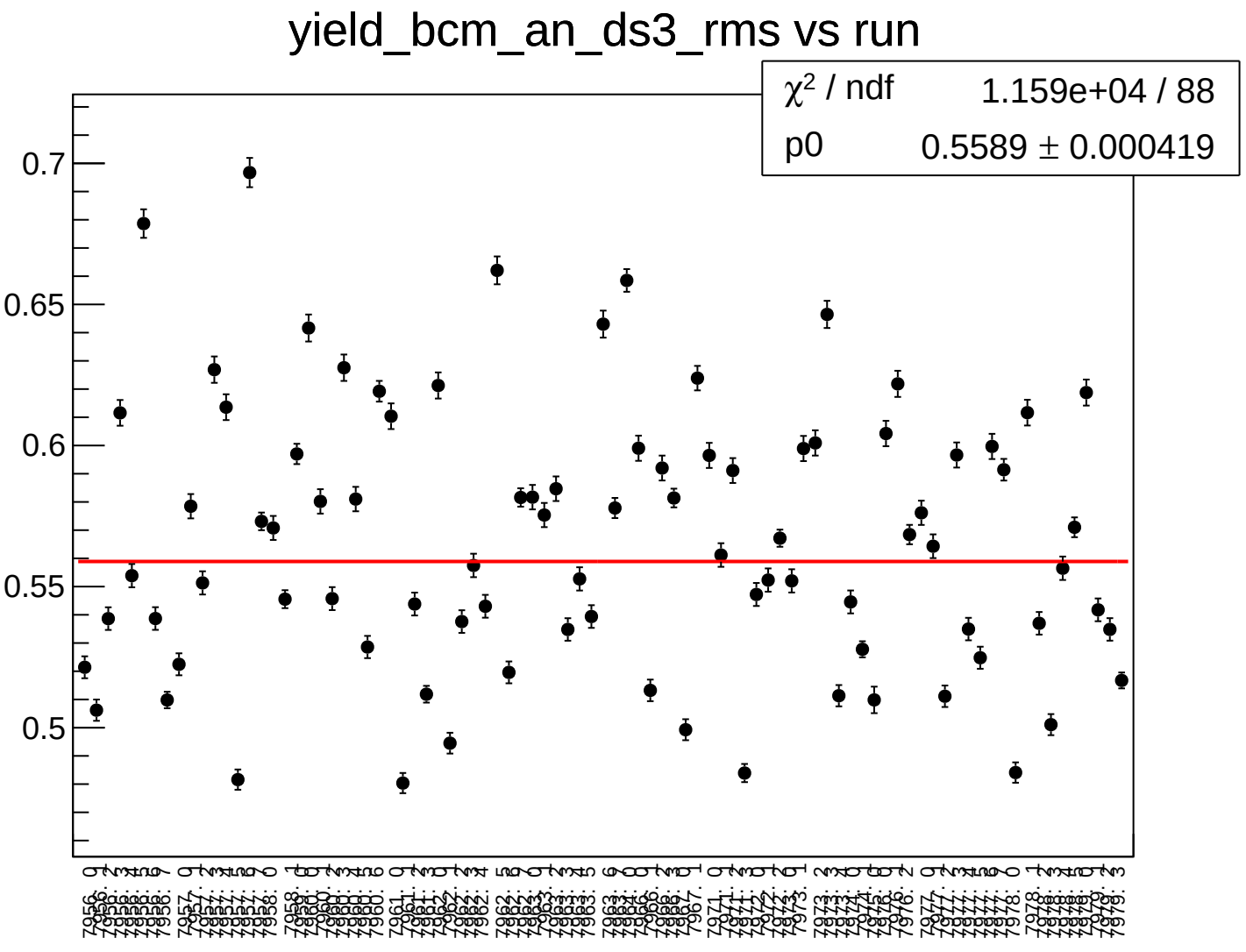

yield_bcm_an_ds_mean vs run
χ² / ndf 4.164e+05 / 88
p0 144.7 ± 0.0005895
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
144
pull
Entries 89
Mean −1509
Std Dev 0
150
100
50
0
−50
−100
−150

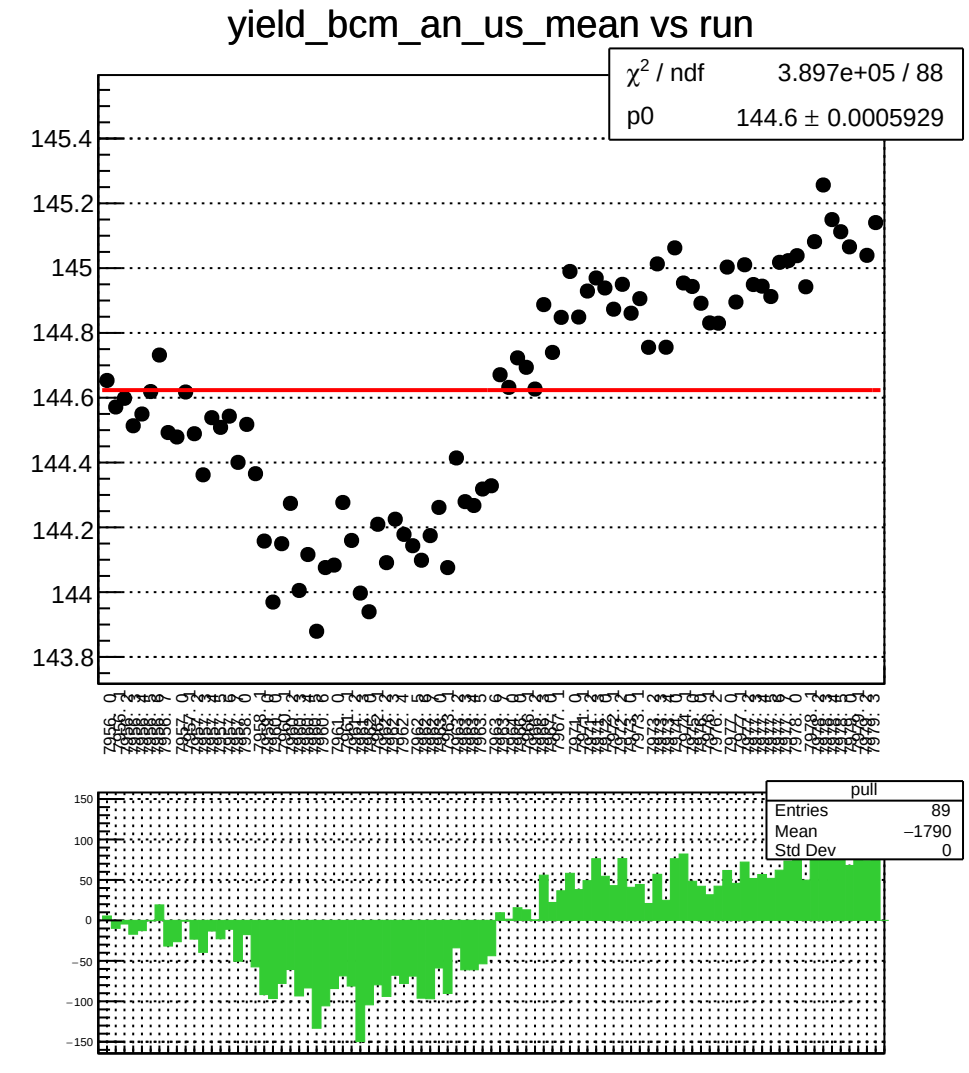

pull1D
Entries 89
Mean 1.653
Std Dev 3.796
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

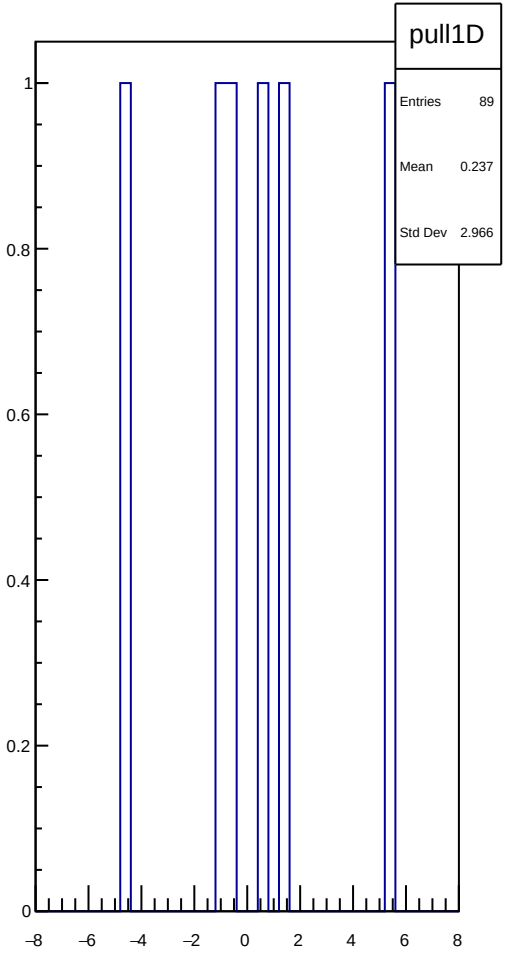

yield_bcm_an_ds_rms vs run
χ² / ndf 1.161e+04 / 88
p0 0.556 ± 0.0004168
0.7
0.65
0.6
0.55
0.5

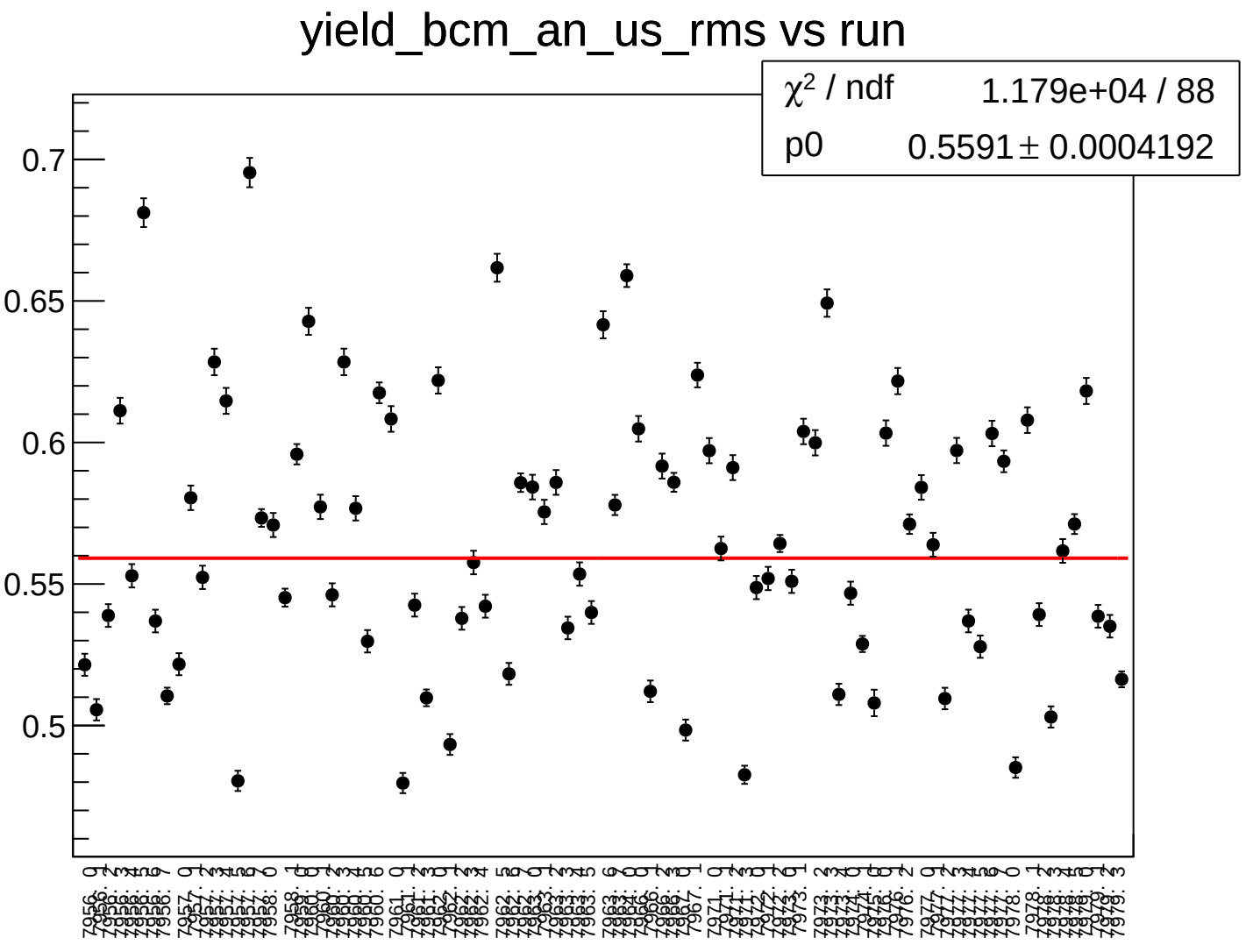

yield_bcm_an_ds3_mean vs run
χ² / ndf 4.112e+05 / 88
p0 144.9 ± 0.0005926
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 89
Mean −1552
Std Dev 0
150
100
50
0
−50
−100
−150

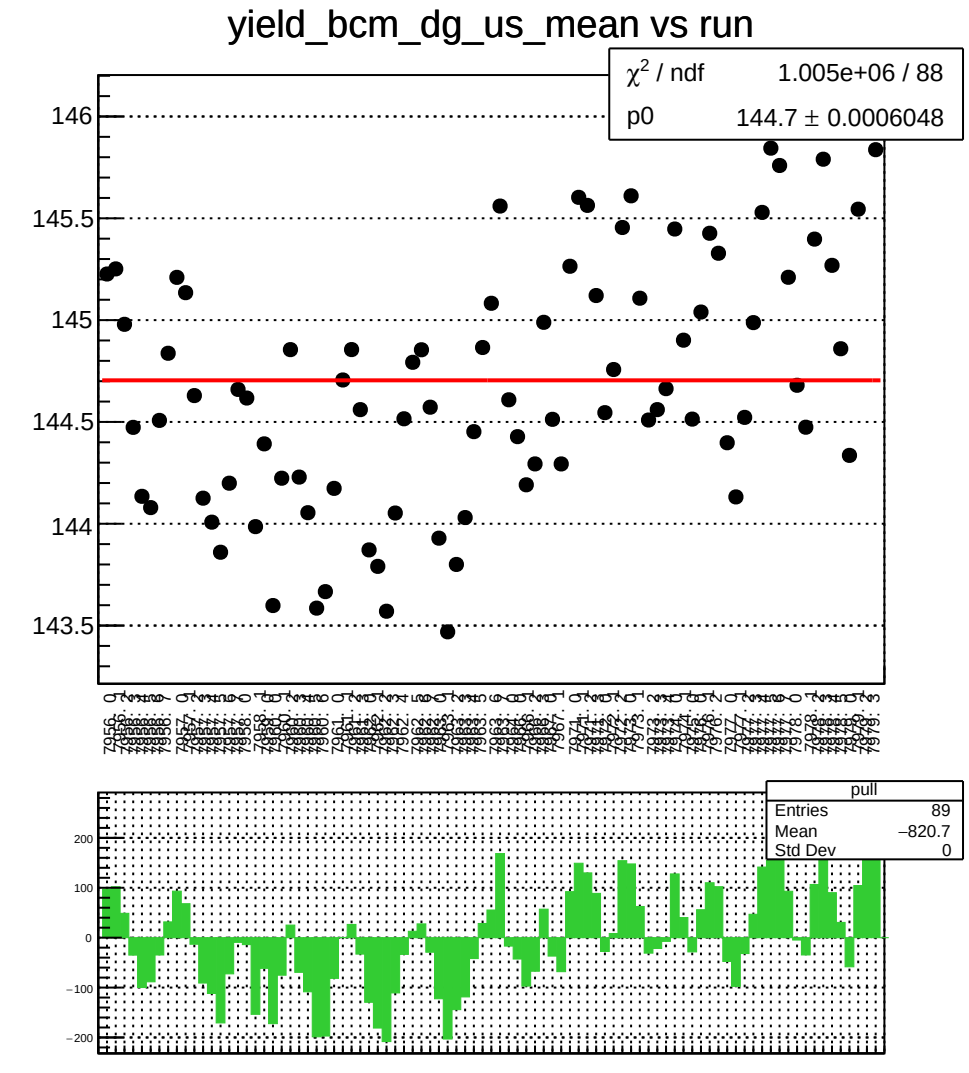

pull1D
Entries 89
Mean 0.5678
Std Dev 3.054
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

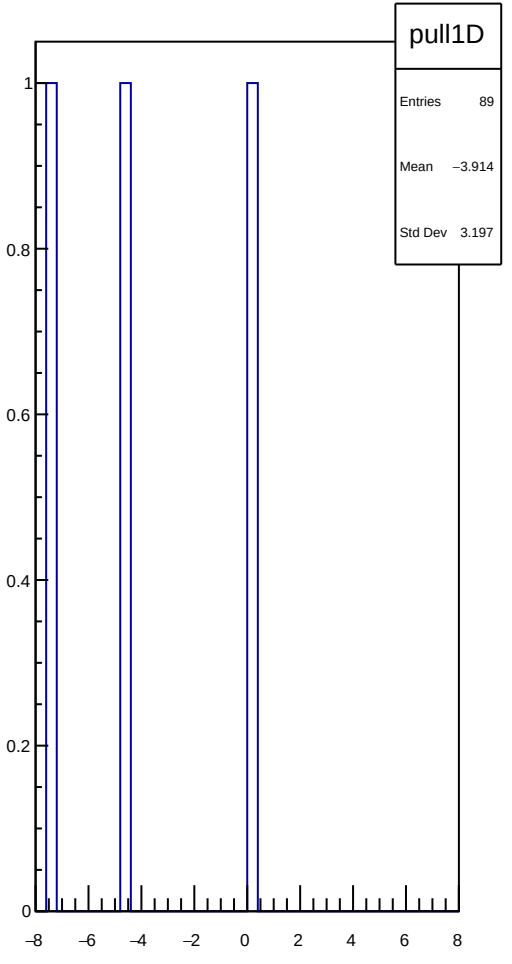

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.159e+04 / 88
p0 0.5589 ± 0.000419
0.7
0.65
0.6
0.55
0.5

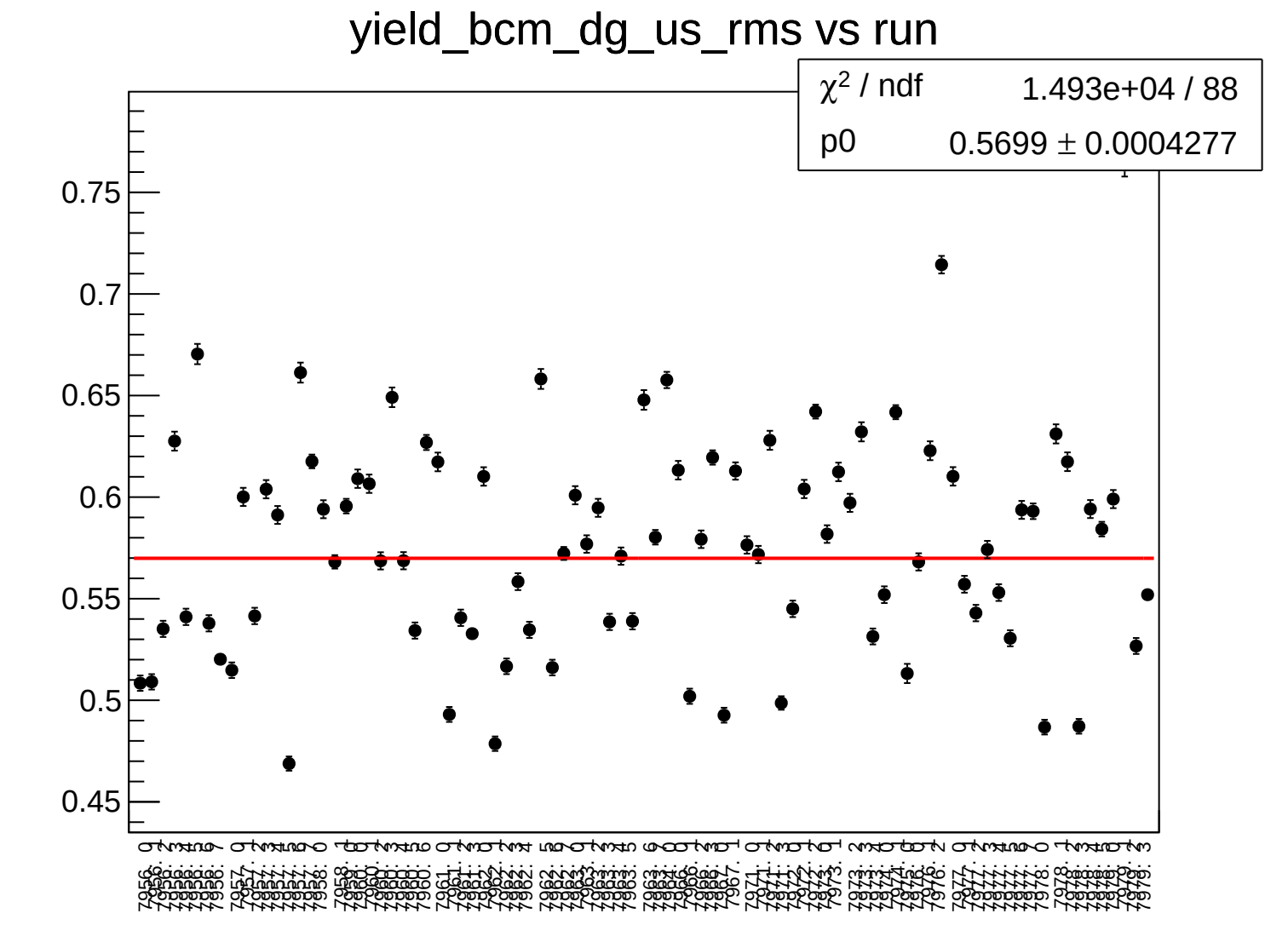

yield_bcm_an_us_mean vs run
χ² / ndf 3.897e+05 / 88
p0 144.6 ± 0.0005929
145.4
145.2
145
144.8
144.6
144.4
144.2
144
143.8
pull
Entries 89
Mean −1790
Std Dev 0
150
100
50
0
−50
−100
−150

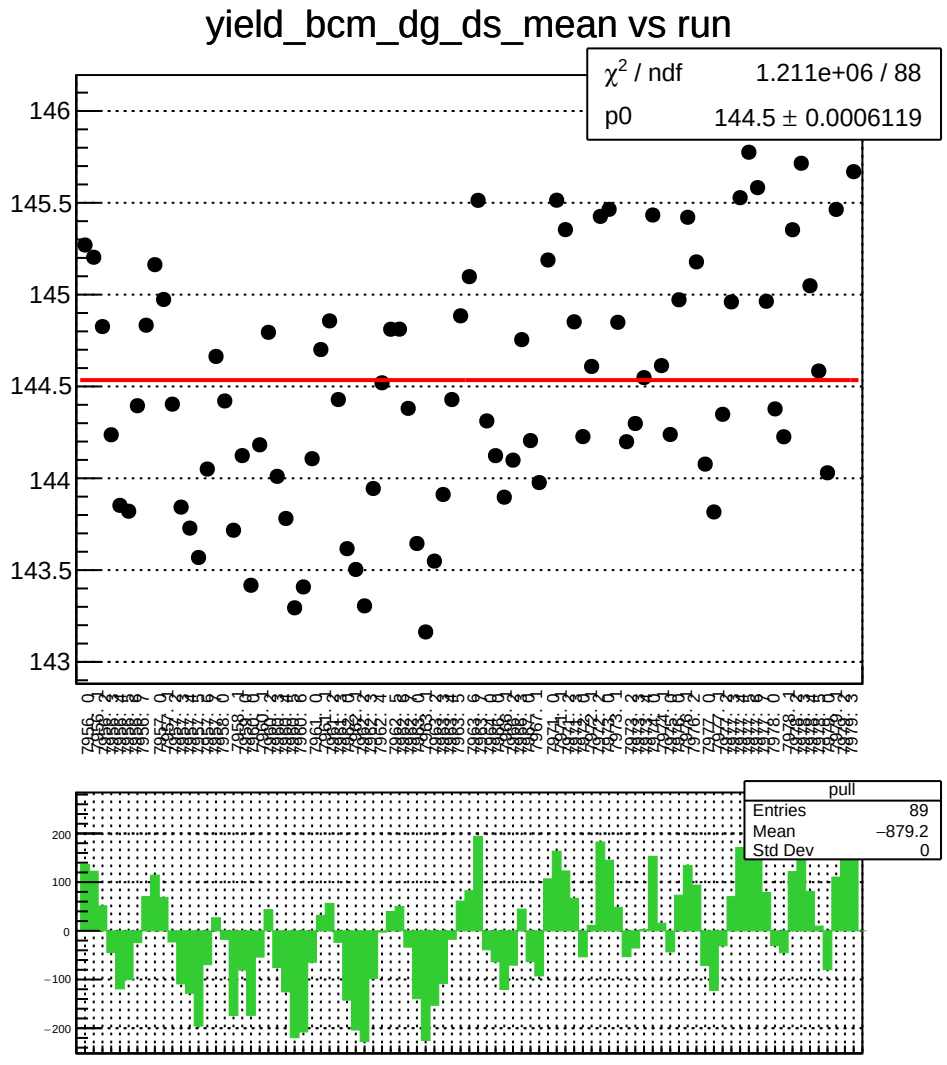

pull1D
Entries 89
Mean 0.237
Std Dev 2.966
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

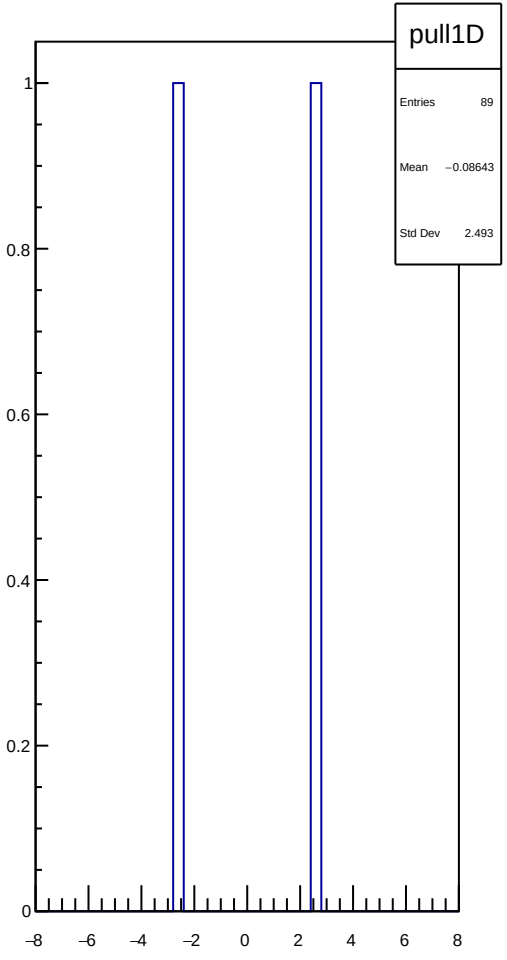

yield_bcm_an_us_rms vs run
χ² / ndf 1.179e+04 / 88
p0 0.5591 ± 0.0004192
0.7
0.65
0.6
0.55
0.5

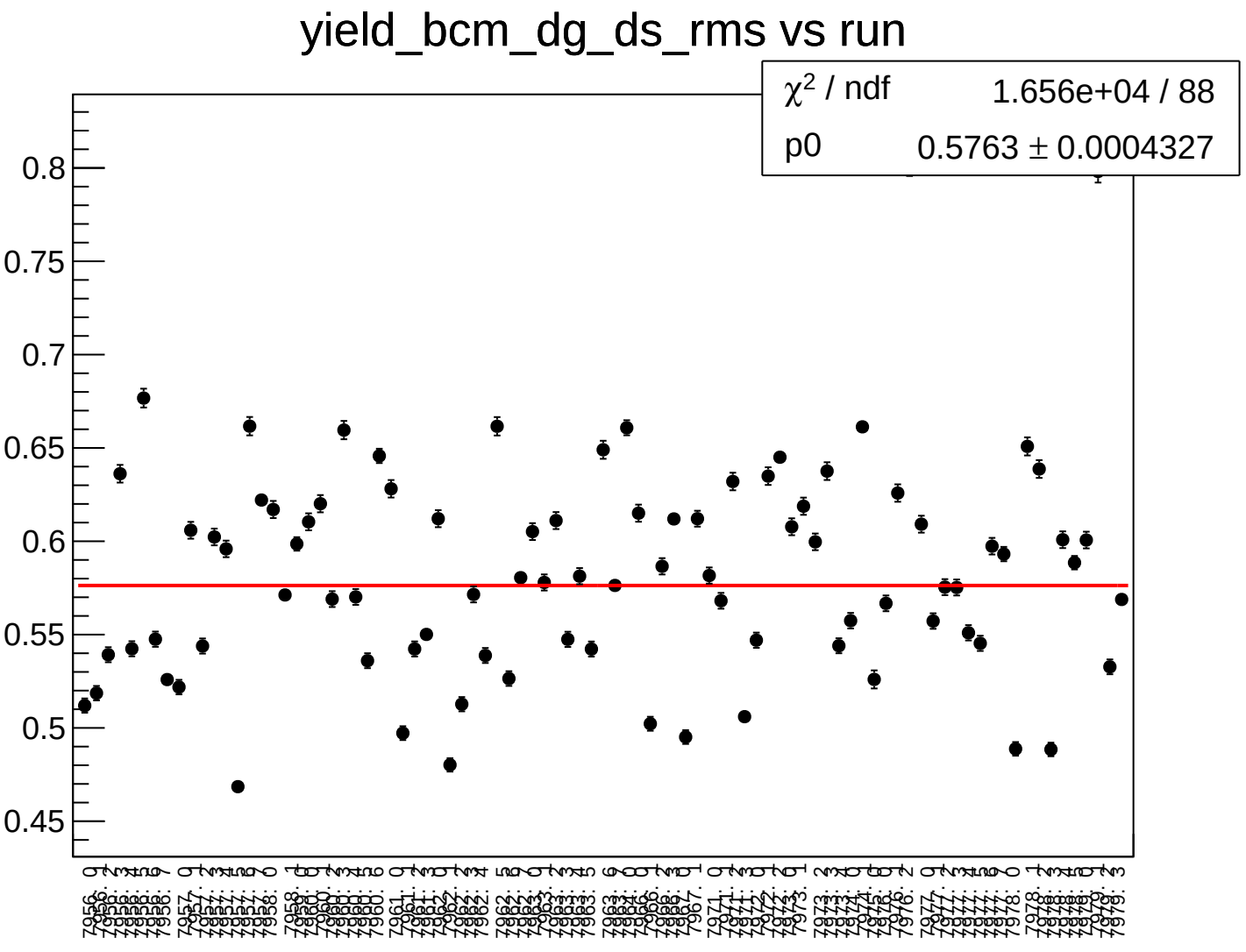

yield_bcm_dg_us_mean vs run
χ² / ndf 1.005e+06 / 88
p0 144.7 ± 0.0006048
146
145.5
145
144.5
144
143.5
pull
Entries 89
Mean −820.7
Std Dev 0
200
100
0
−100
−200

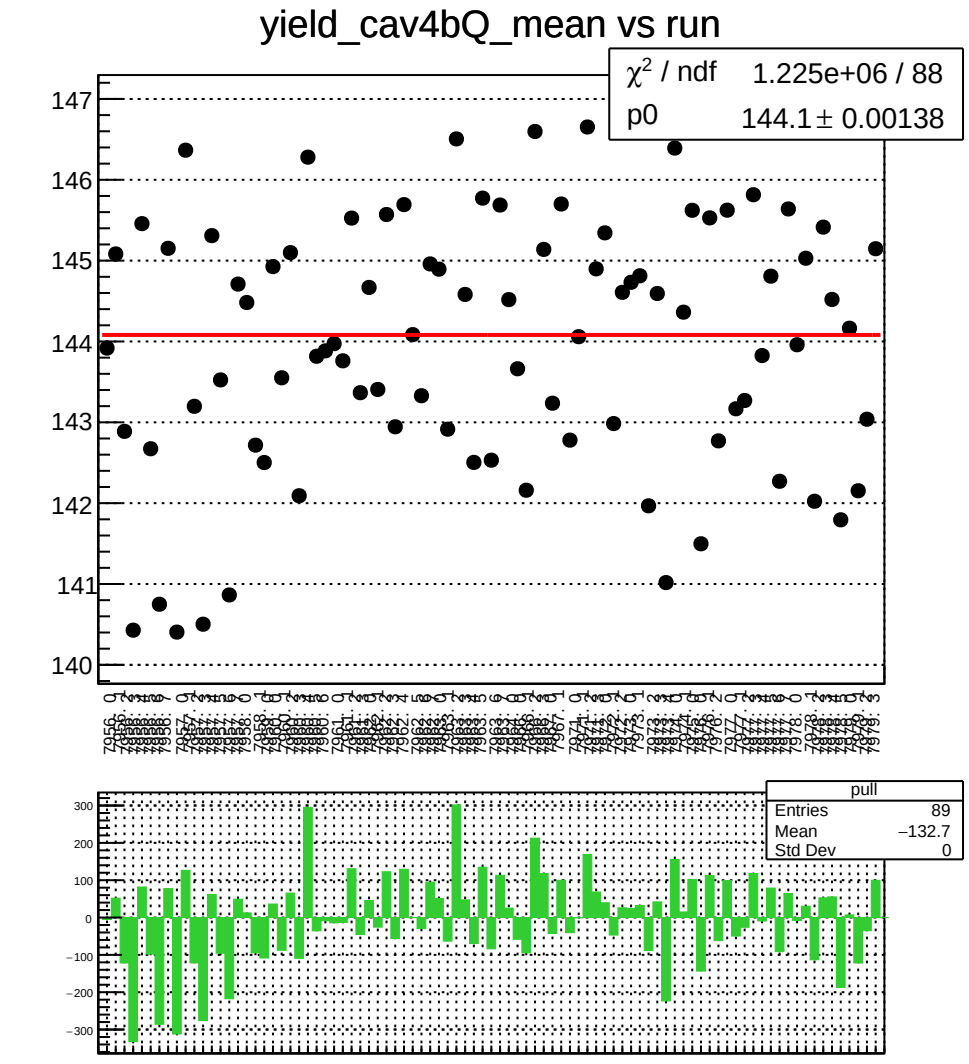

pull1D
Entries 89
Mean −3.914
Std Dev 3.197
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

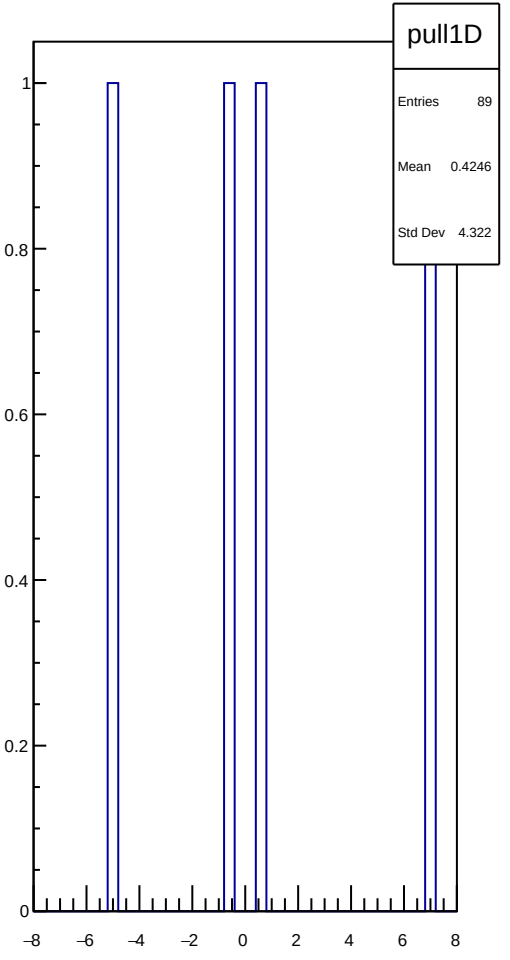

yield_bcm_dg_us_rms vs run
χ² / ndf 1.493e+04 / 88
p0 0.5699 ± 0.0004277
0.75
0.7
0.65
0.6
0.55
0.5
0.45

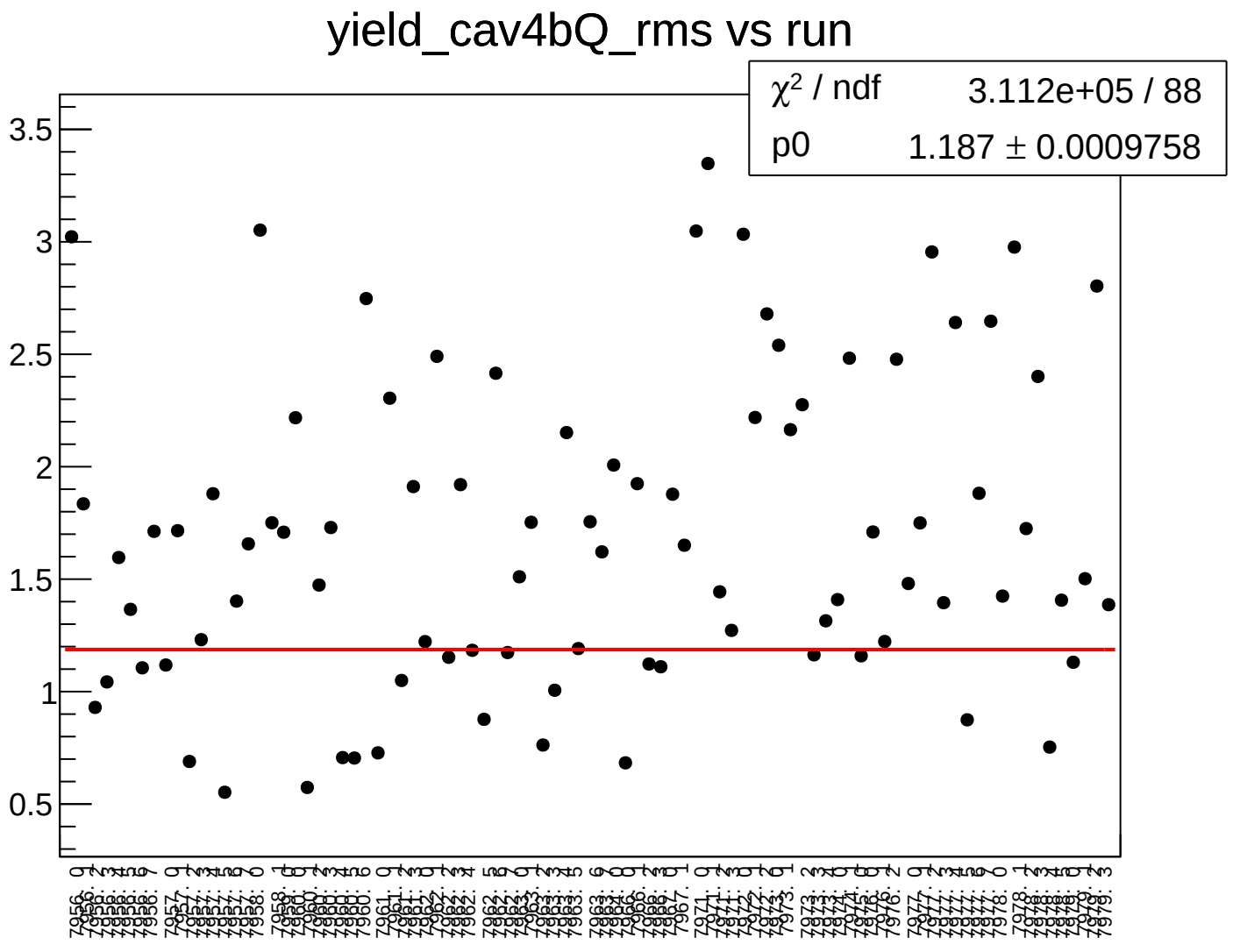

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.211e+06 / 88
p0 144.5 ± 0.0006119
146
145.5
145
144.5
144
143.5
143
pull
Entries 89
Mean −879.2
Std Dev 0
200
100
0
−100
−200

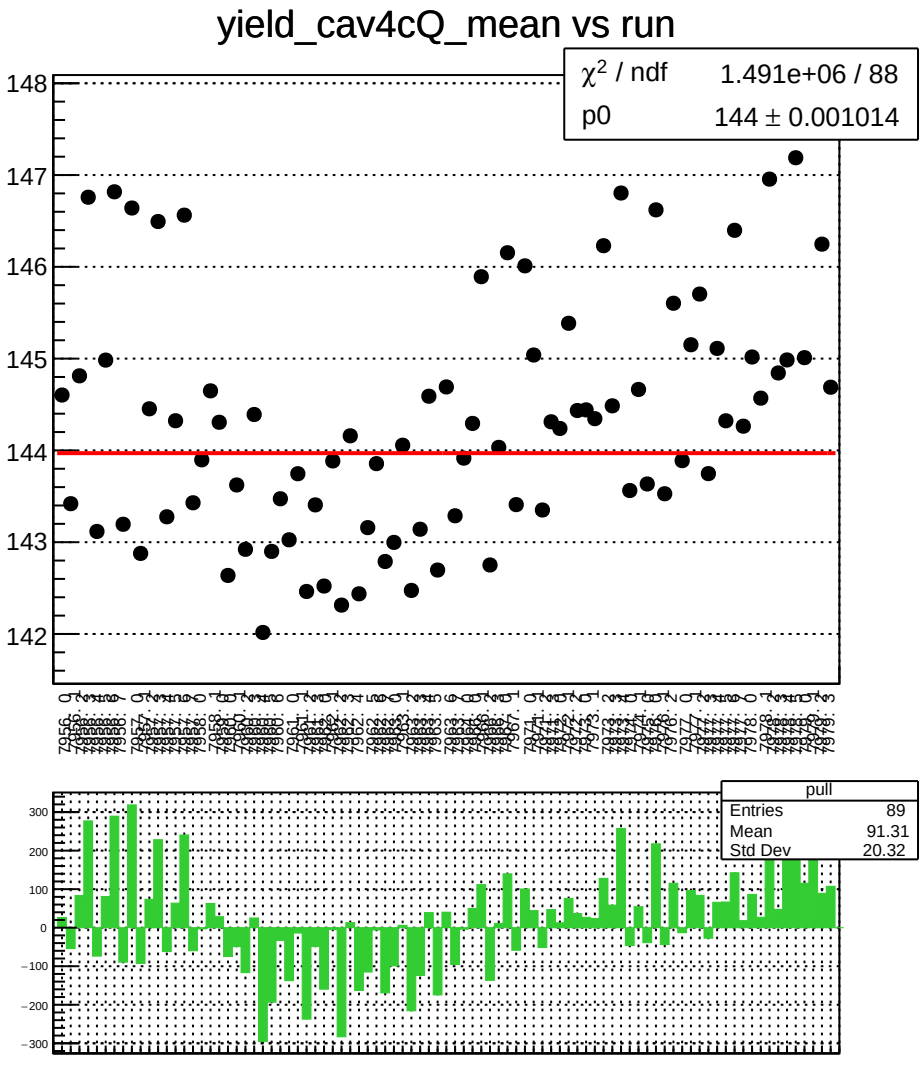

pull1D
Entries 89
Mean −0.08643
Std Dev 2.493
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

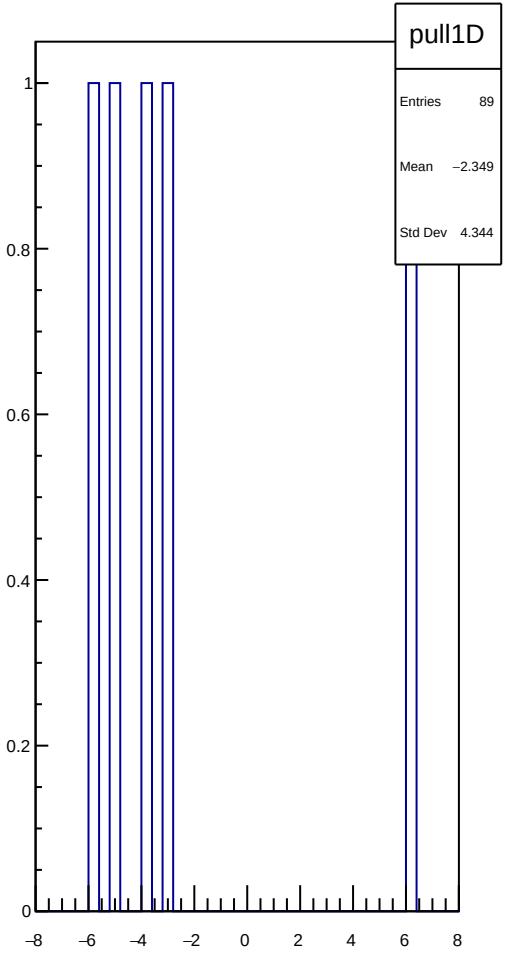

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.656e+04 / 88
p0 0.5763 ± 0.0004327
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

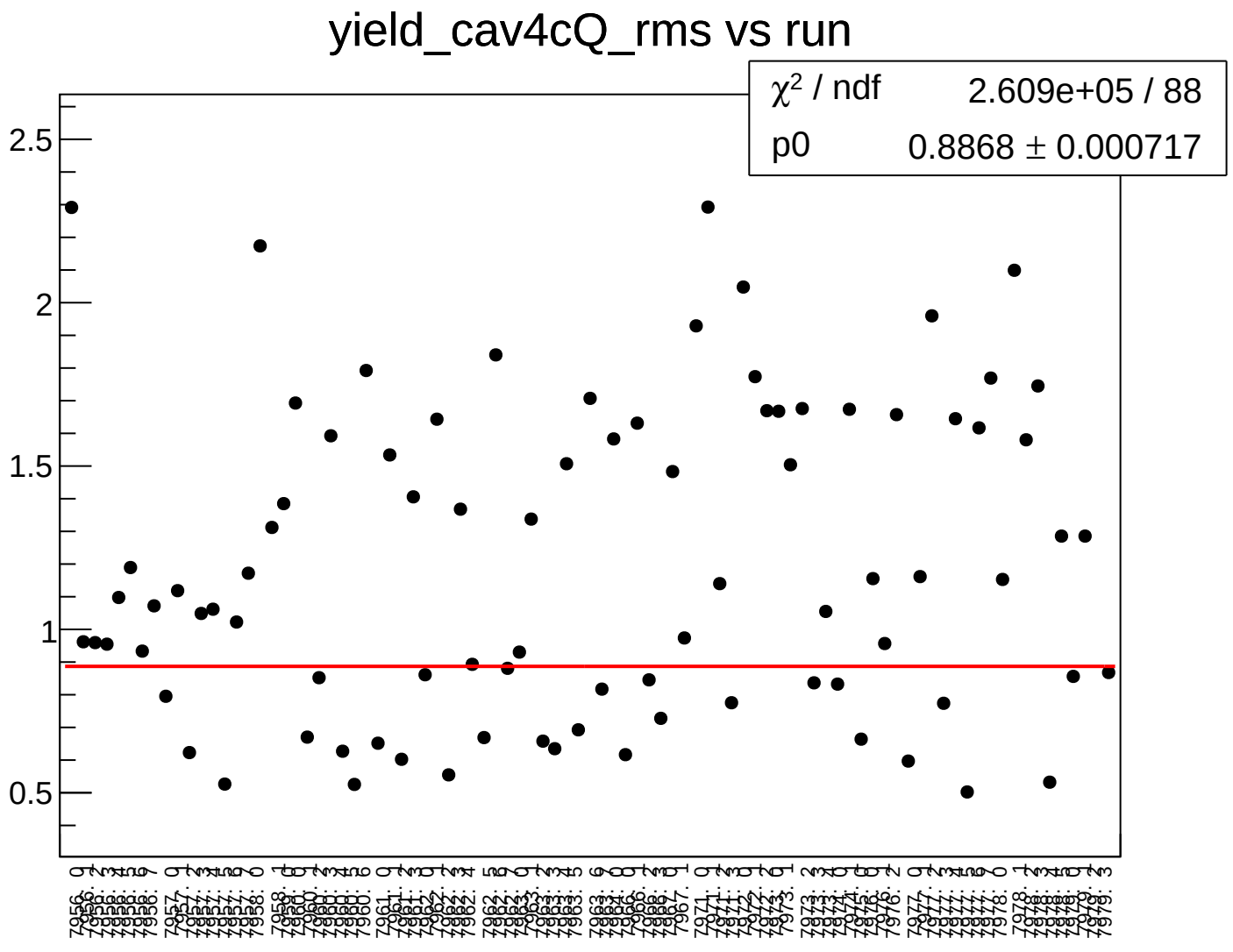

yield_cav4bQ_mean vs run
χ² / ndf 1.225e+06 / 88
p0 144.1 ± 0.00138
147
146
145
144
143
142
141
140
pull
Entries 89
Mean −132.7
Std Dev 0
300
200
100
0
−100
−200
−300

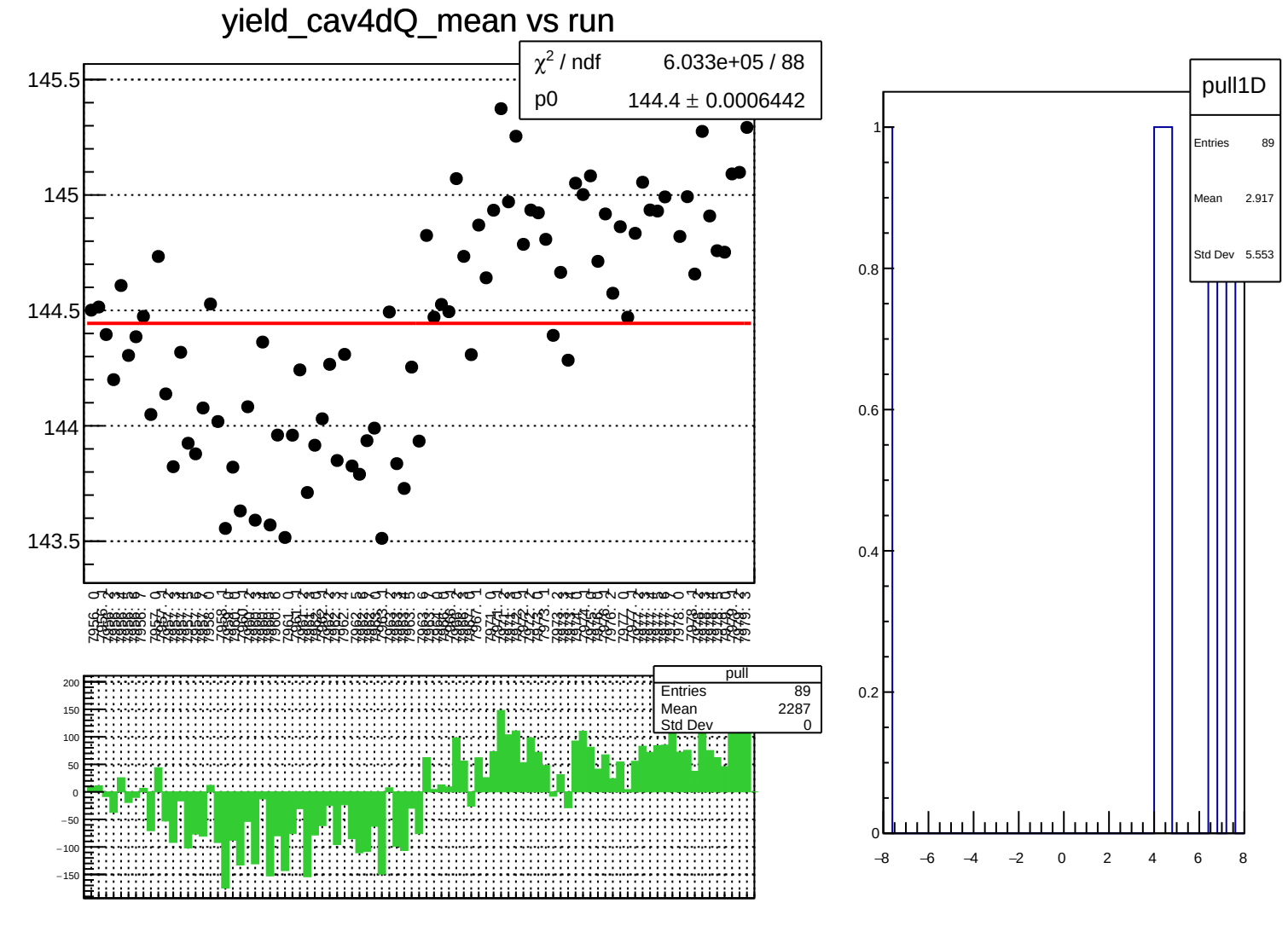

pull1D
Entries 89
Mean 0.4246
Std Dev 4.322
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

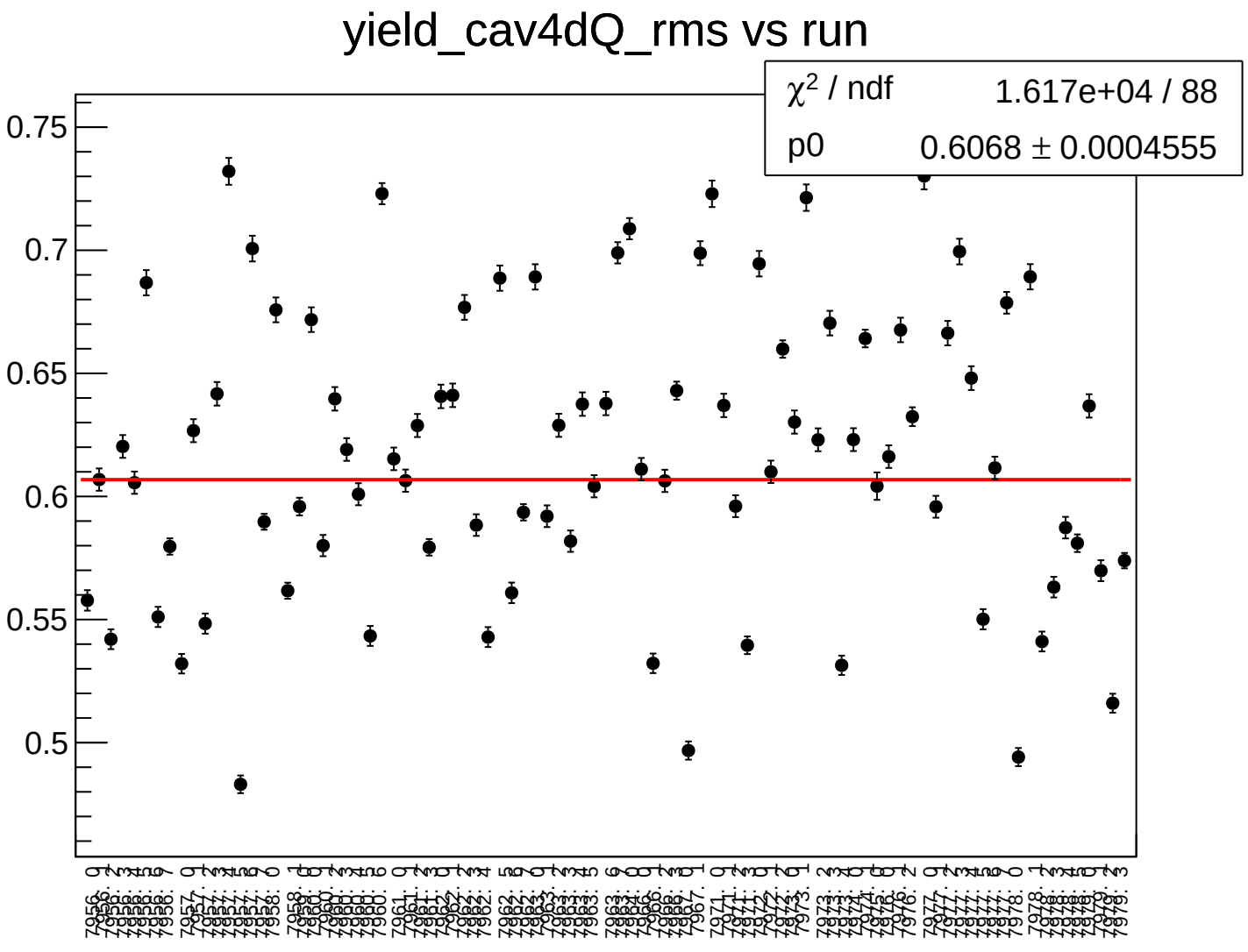

yield_cav4bQ_rms vs run
χ² / ndf 3.112e+05 / 88
p0 1.187 ± 0.0009758
3.5
3
2.5
2
1.5
1
0.5

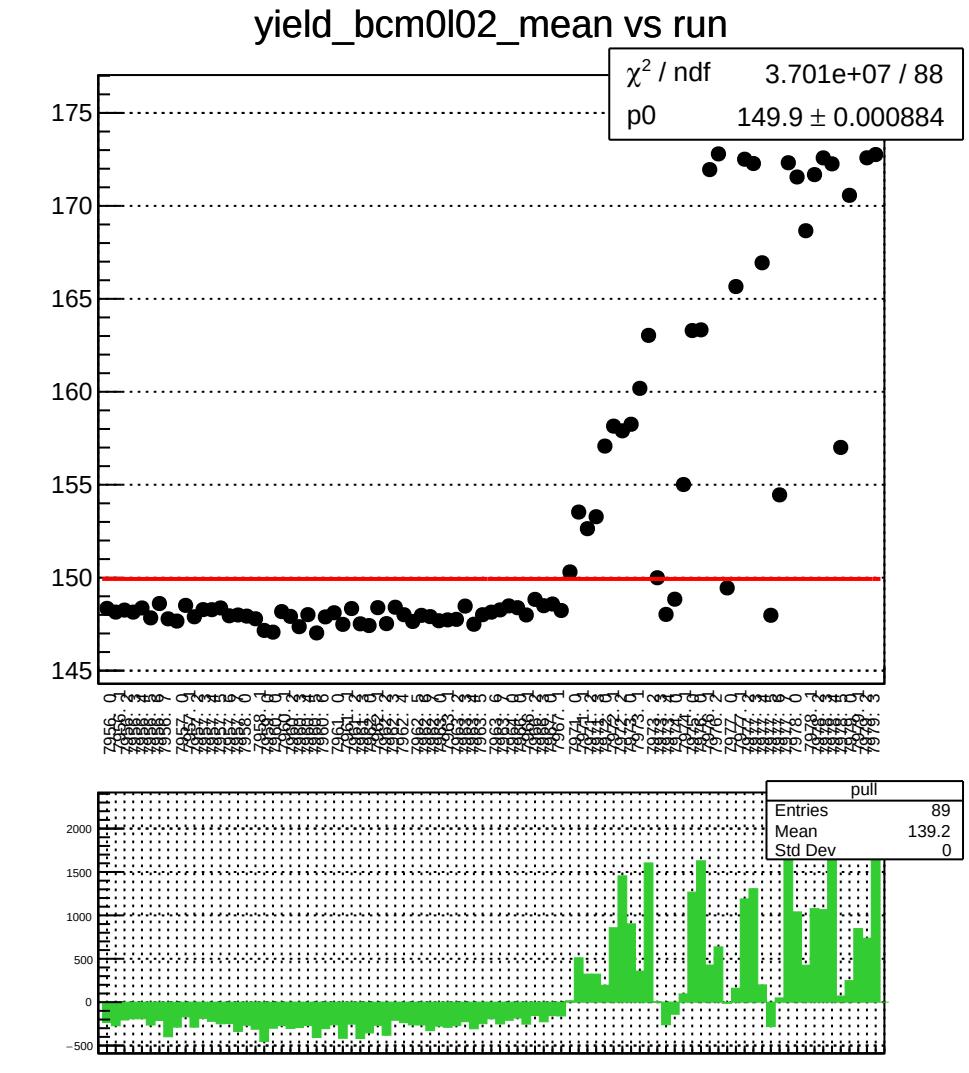

yield_cav4cQ_mean vs run
χ² / ndf 1.491e+06 / 88
p0 144 ± 0.001014
148
147
146
145
144
143
142
pull
Entries 89
Mean 91.31
Std Dev 20.32
300
200
100
0
−100
−200
−300

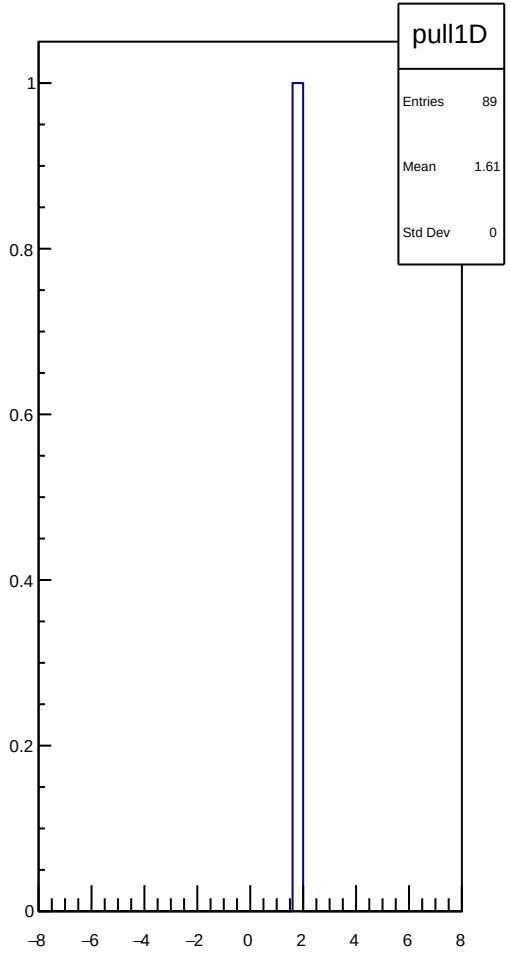

pull1D
Entries 89
Mean −2.349
Std Dev 4.344
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

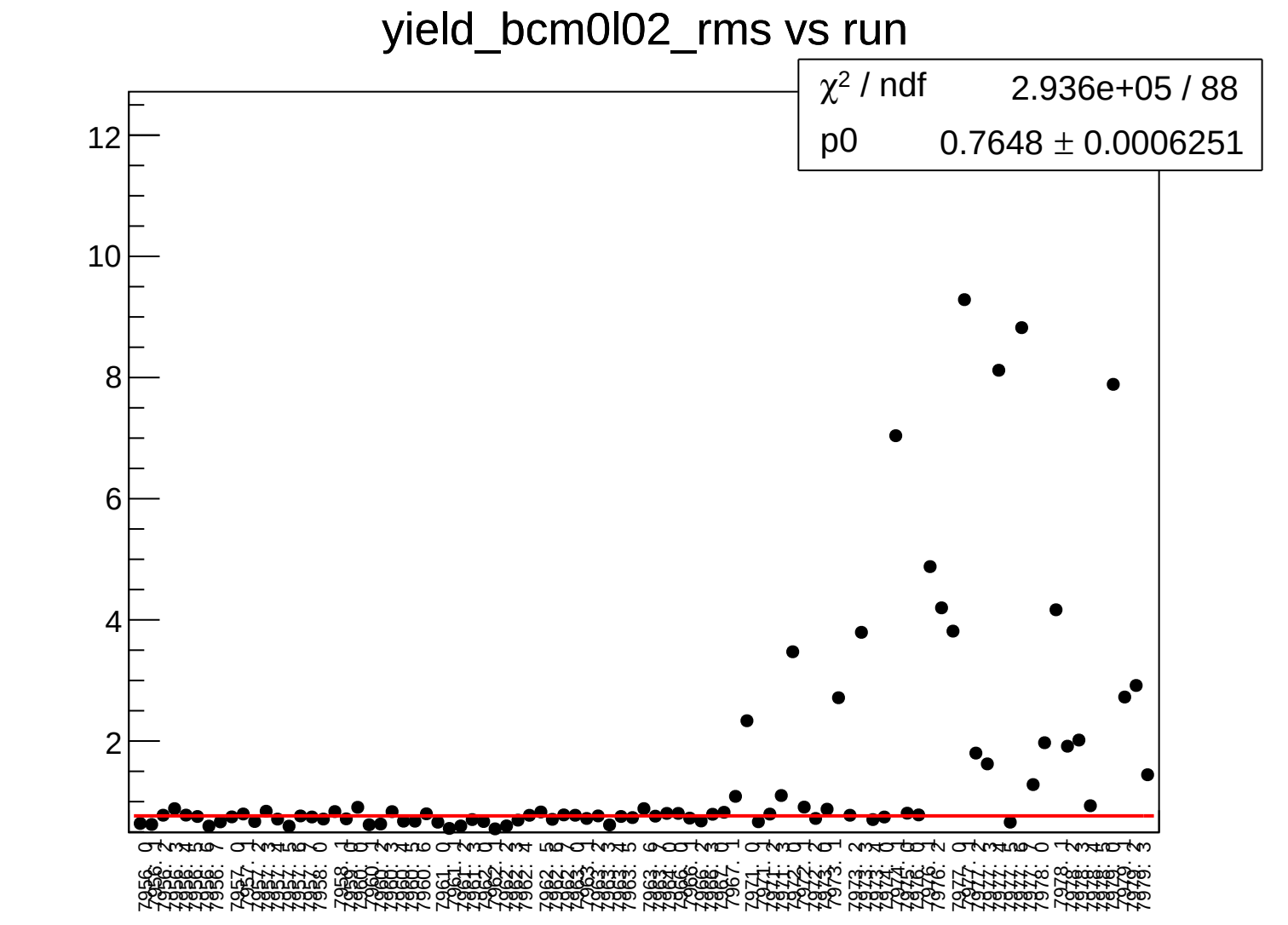

yield_cav4cQ_rms vs run
χ² / ndf 2.609e+05 / 88
p0 0.8868 ± 0.000717
2.5
2
1.5
1
0.5

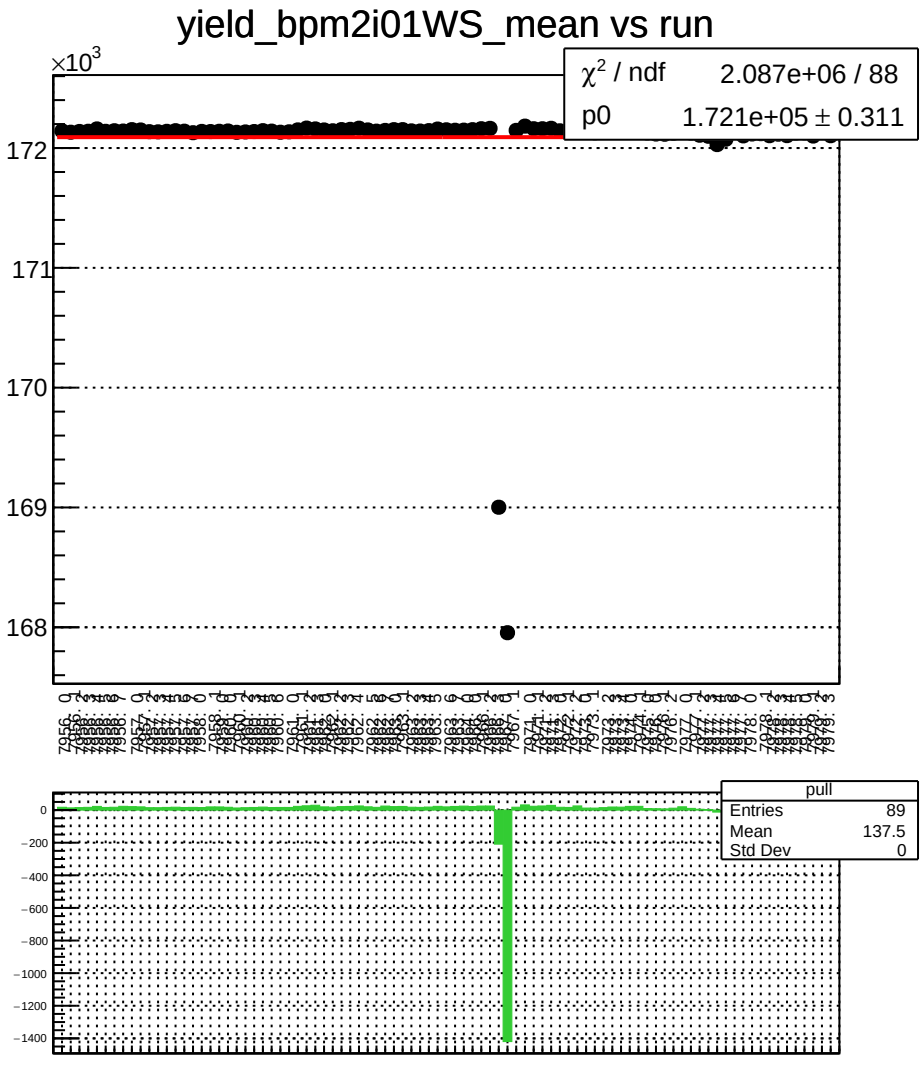

yield_cav4dQ_mean vs run
χ² / ndf 6.033e+05 / 88
p0 144.4 ± 0.0006442
145.5
145
144.5
144
143.5
pull
Entries 89
Mean 2287
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 89
Mean 2.917
Std Dev 5.553
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

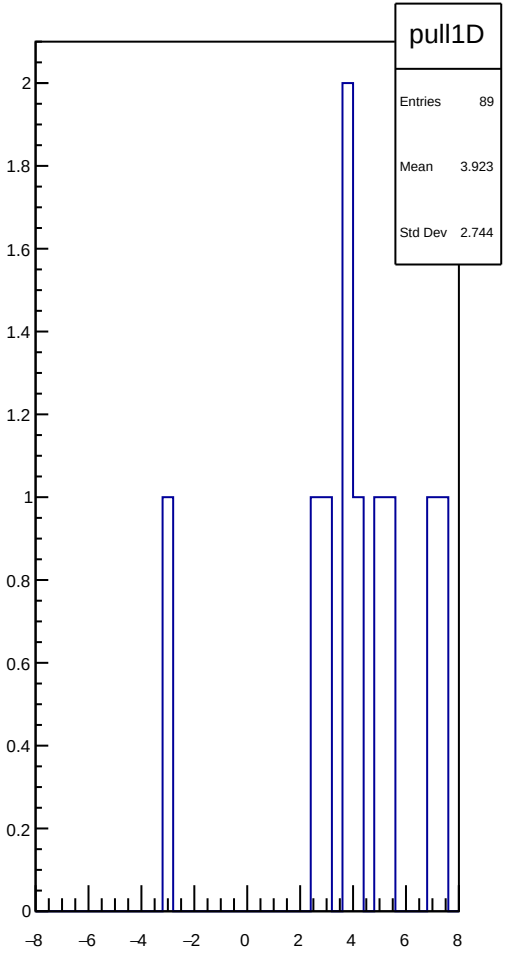

yield_cav4dQ_rms vs run
χ² / ndf 1.617e+04 / 88
p0 0.6068 ± 0.0004555
0.75
0.7
0.65
0.6
0.55
0.5

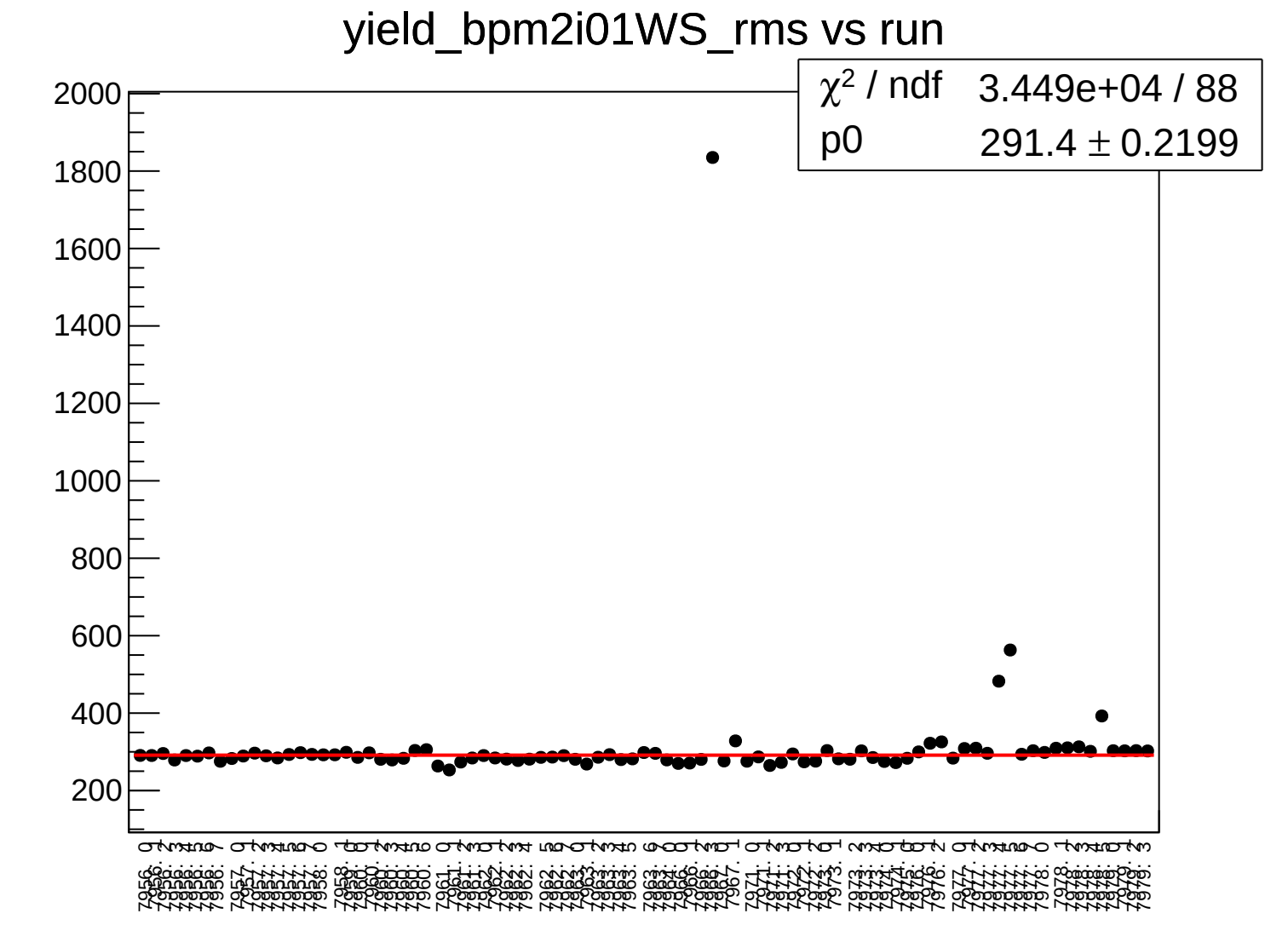

yield_bcm0l02_mean vs run
χ² / ndf 3.701e+07 / 88
p0 149.9 ± 0.000884
175
170
165
160
155
150
145
pull
Entries 89
Mean 139.2
Std Dev 0
2000
1500
1000
500
0
−500

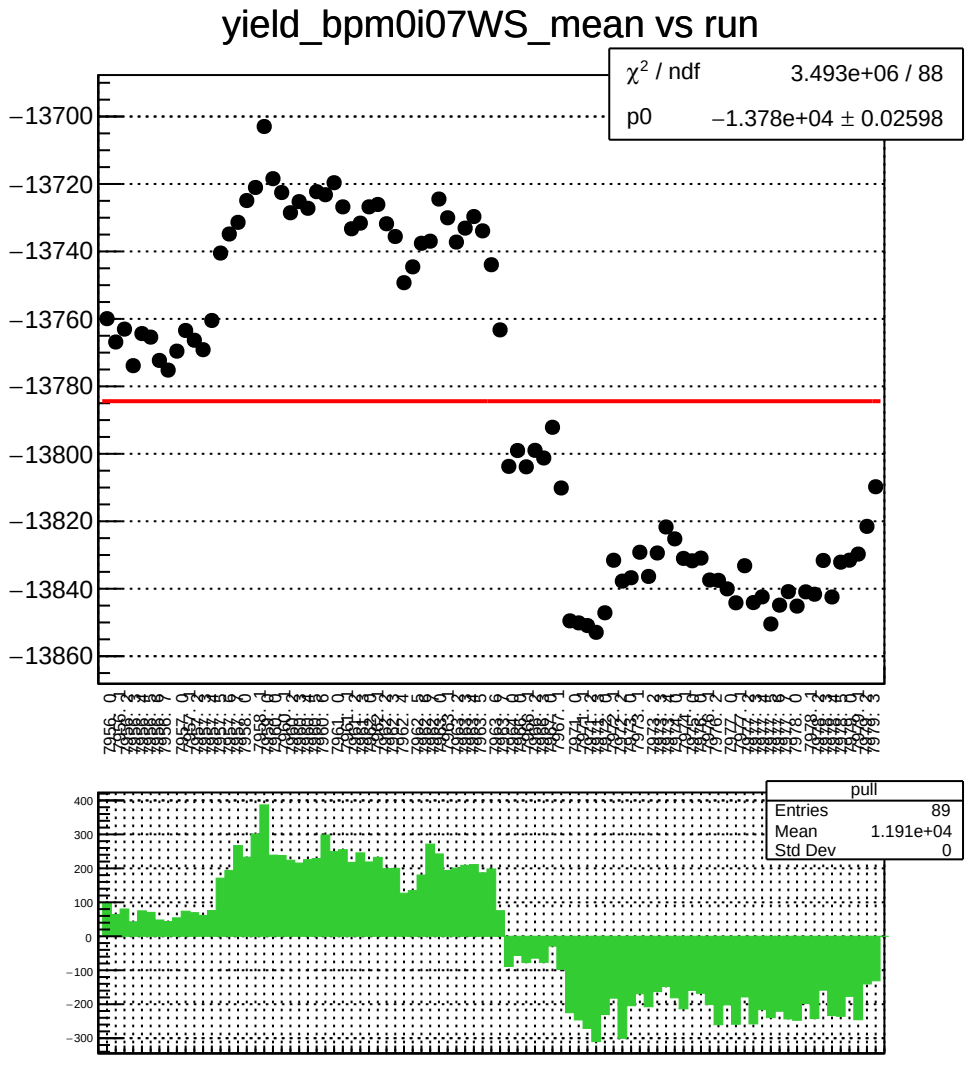

pull1D
Entries 89
Mean 1.61
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

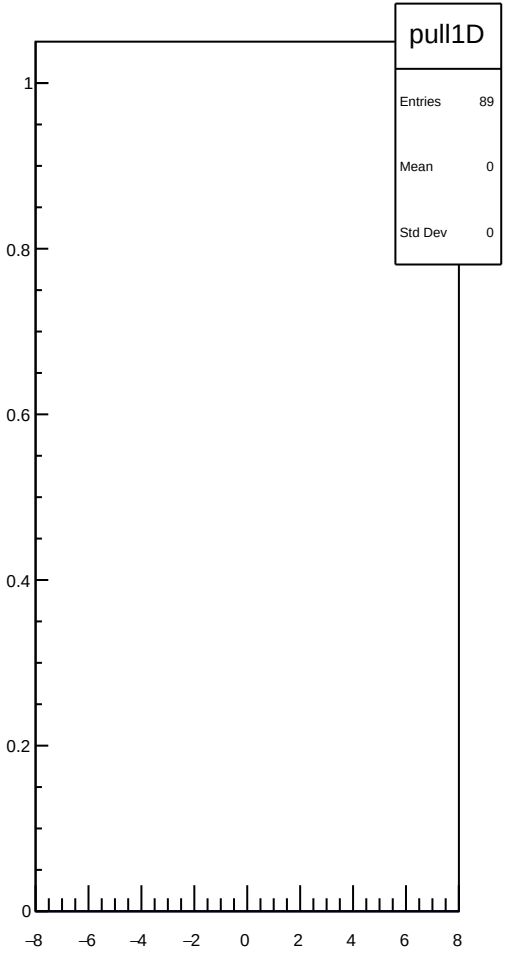

yield_bcm0l02_rms vs run
χ² / ndf 2.936e+05 / 88
p0 0.7648 ± 0.0006251
12
10
8
6
4
2

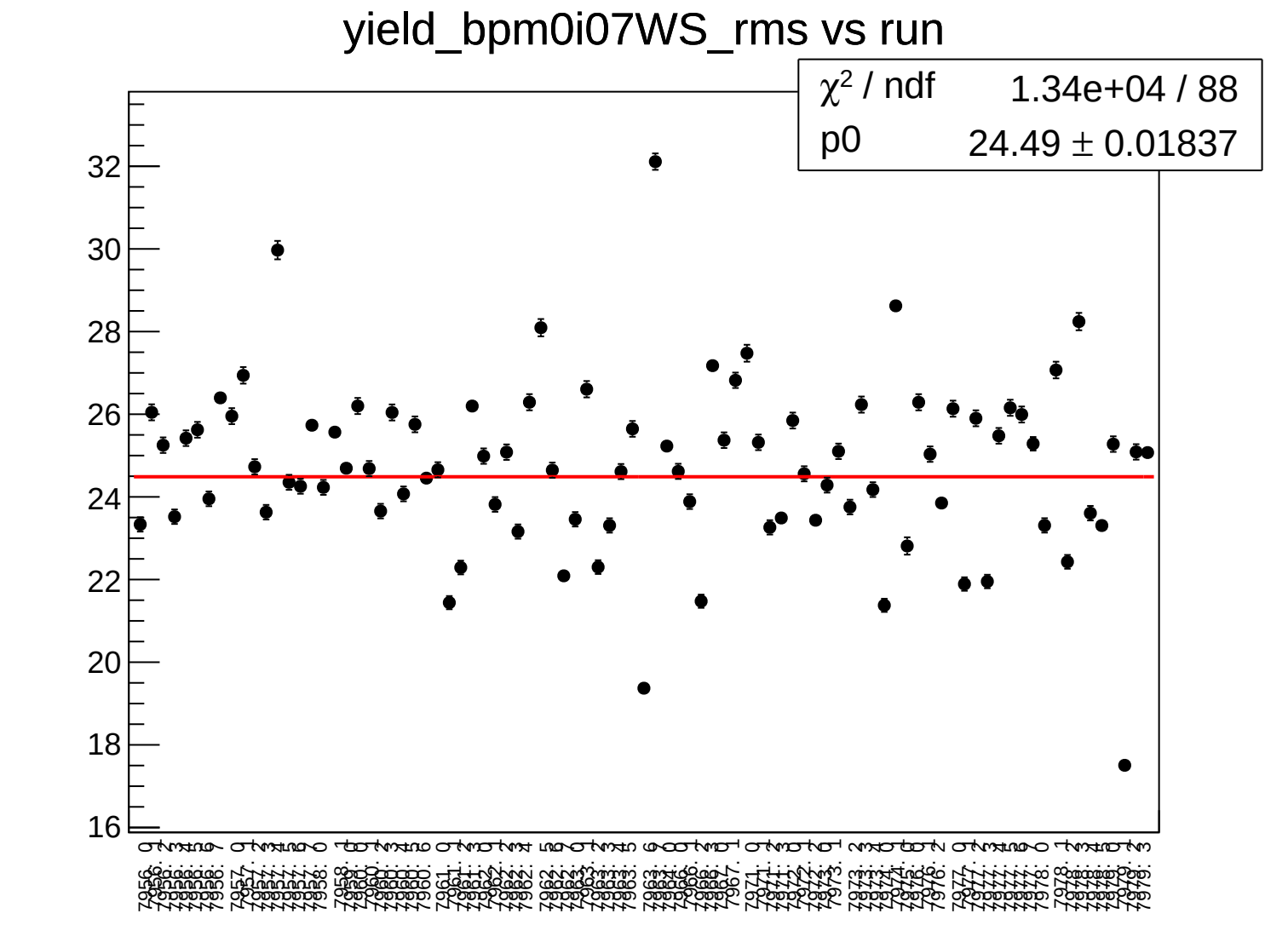

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.087e+06 / 88
p0 1.721e+05 ± 0.311
172
171
170
169
168
pull
Entries 89
Mean 137.5
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400

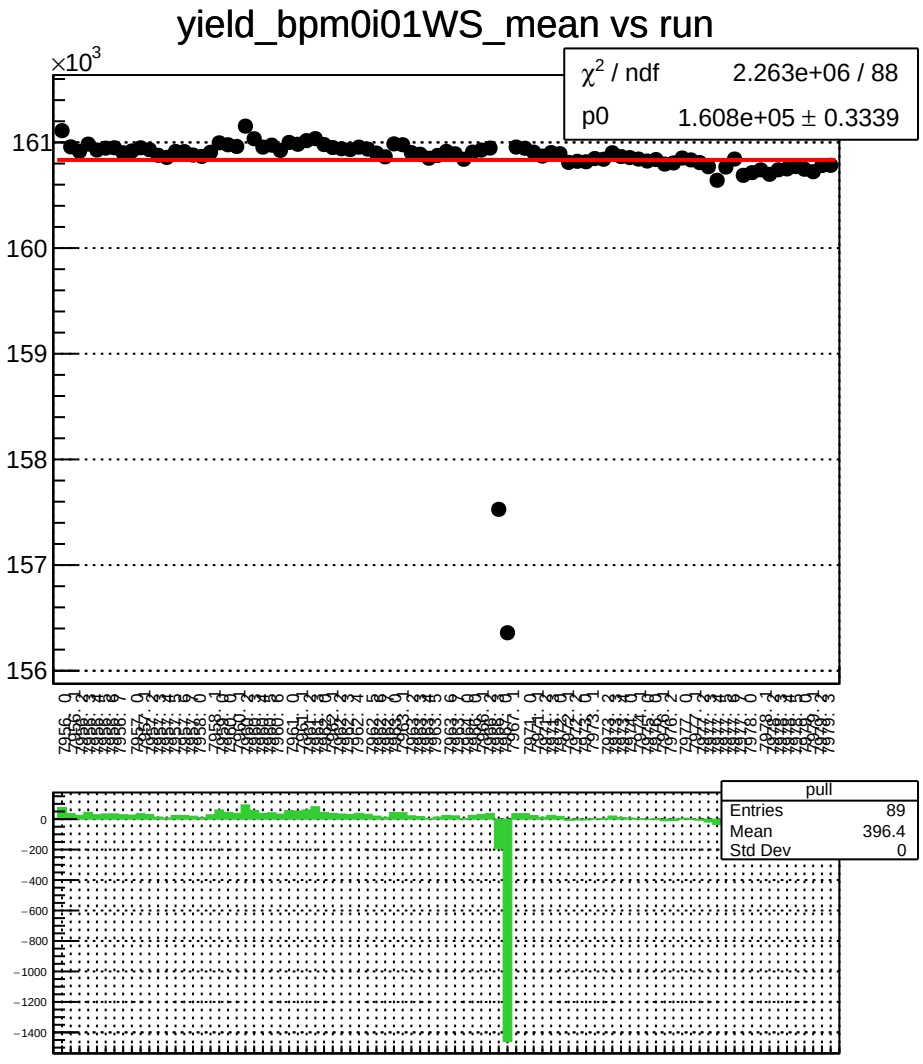

pull1D
Entries 89
Mean 3.923
Std Dev 2.744
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

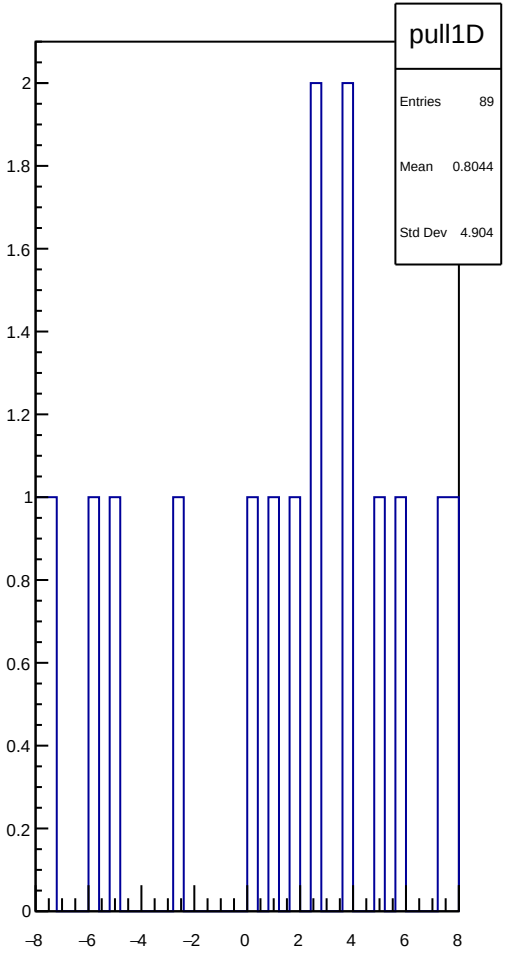

yield_bpm2i01WS_rms vs run
χ² / ndf 3.449e+04 / 88
p0 291.4 ± 0.2199
2000
1800
1600
1400
1200
1000
800
600
400
200

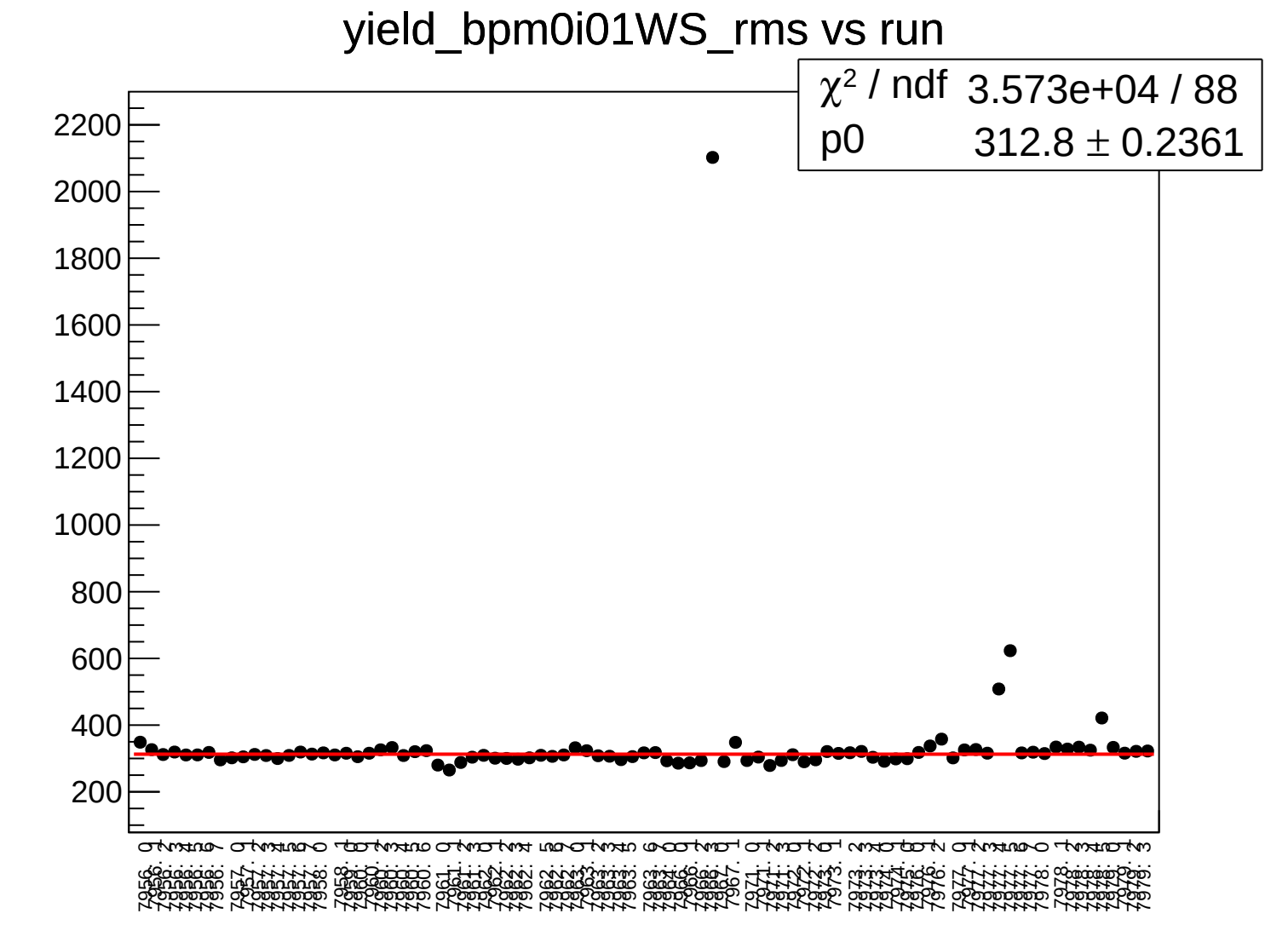

yield_bpm0i07WS_mean vs run
χ² / ndf 3.493e+06 / 88
p0 −1.378e+04 ± 0.02598
−13700
−13720
−13740
−13760
−13780
−13800
−13820
−13840
−13860
pull
Entries 89
Mean 1.191e+04
Std Dev 0
400
300
200
100
0
−100
−200
−300

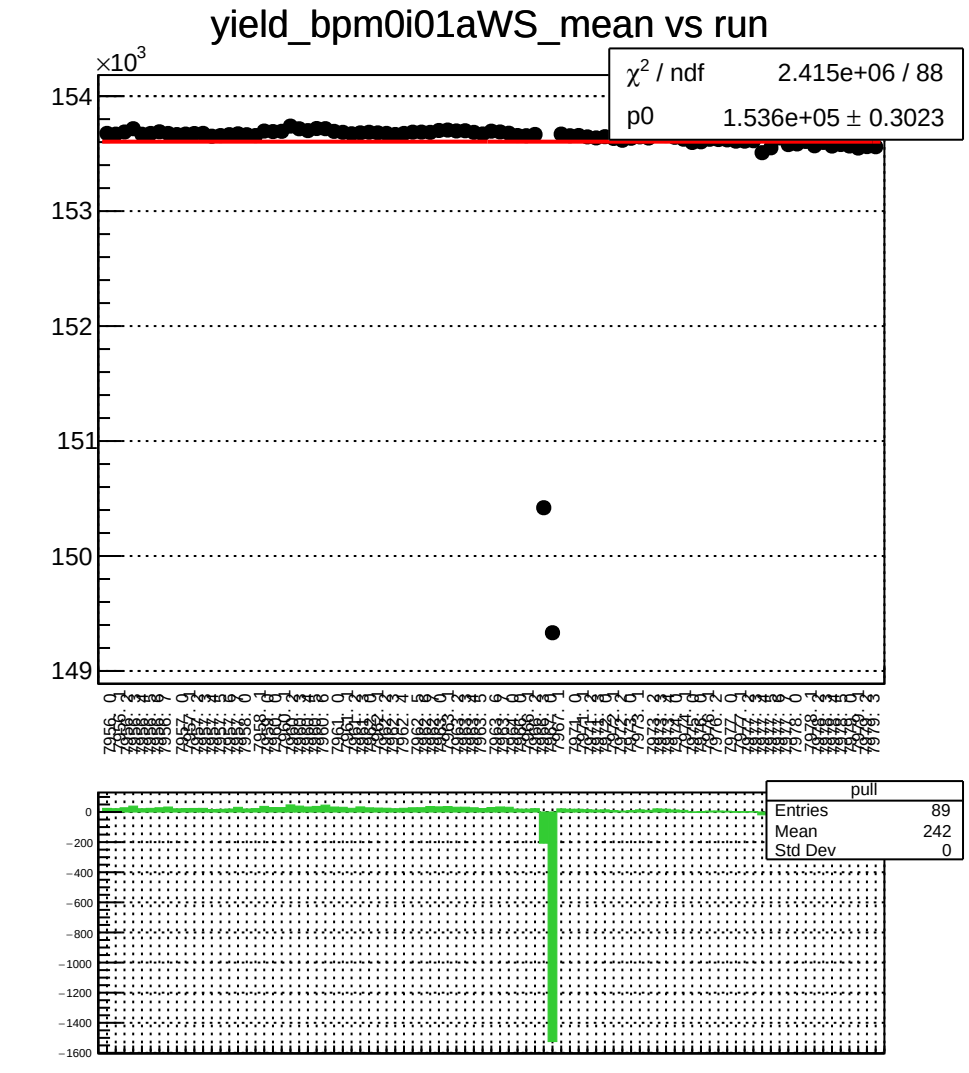

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

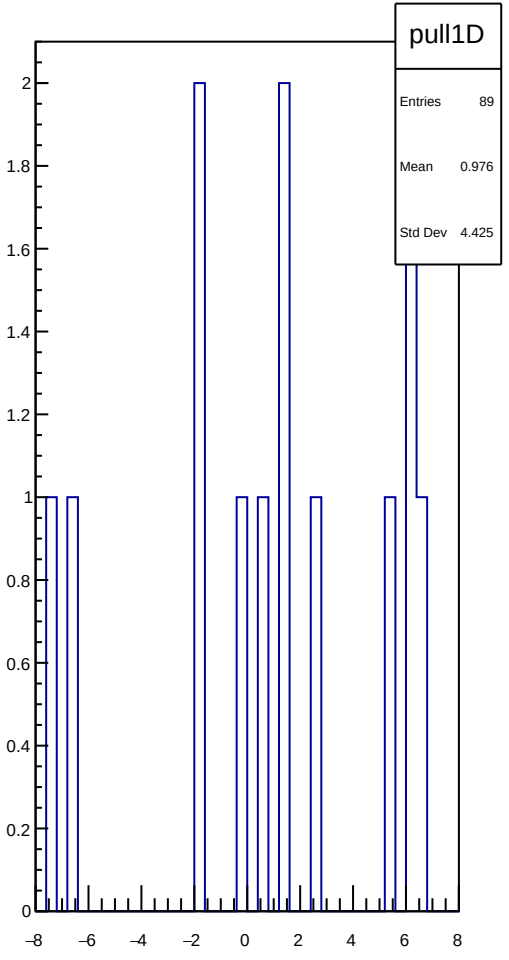

yield_bpm0i07WS_rms vs run
χ² / ndf 1.34e+04 / 88
p0 24.49 ± 0.01837
32
30
28
26
24
22
20
18
16

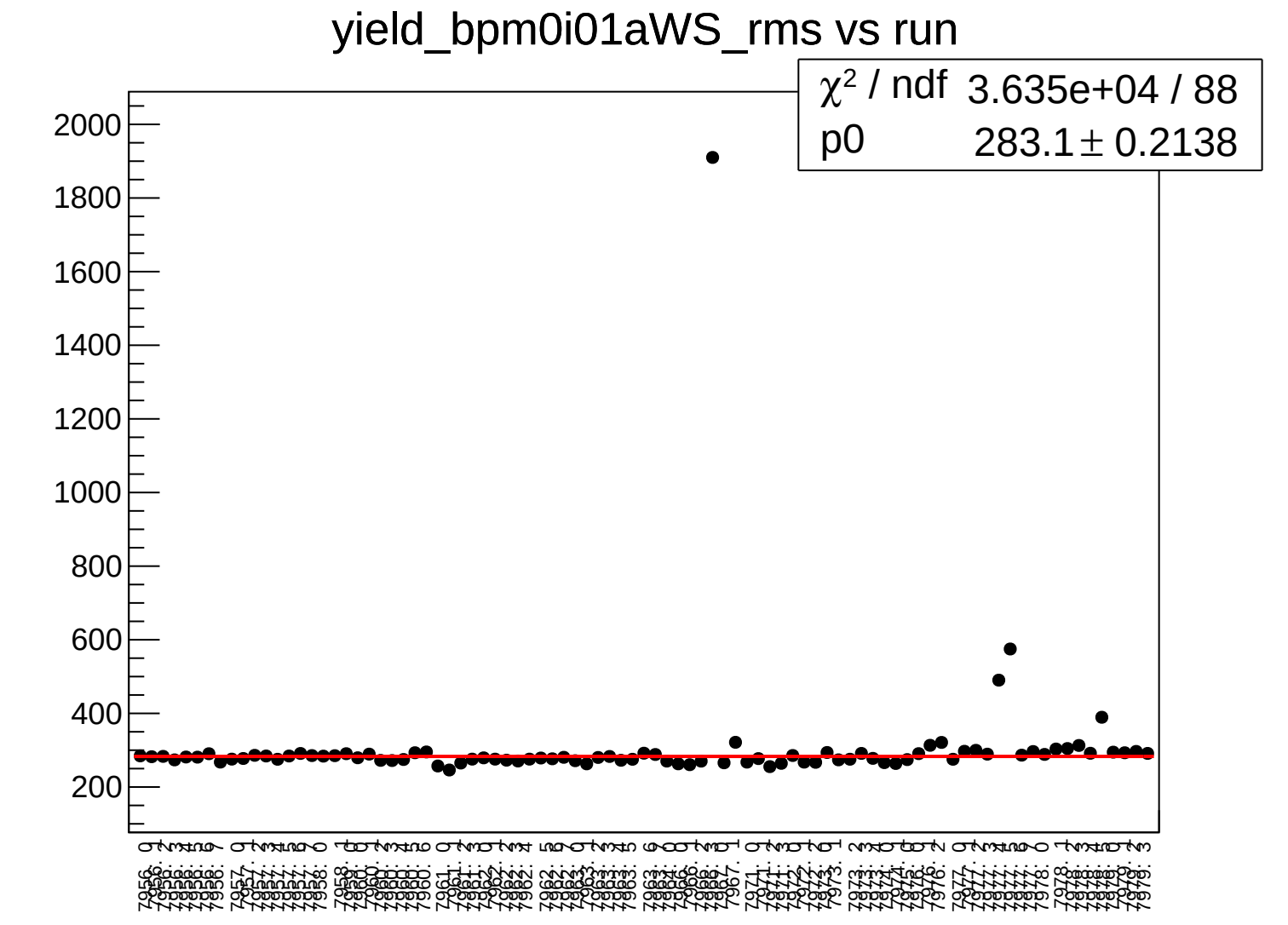

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 2.263e+06 / 88
p0 1.608e+05 ± 0.3339
161
160
159
158
157
156
pull
Entries 89
Mean 396.4
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400

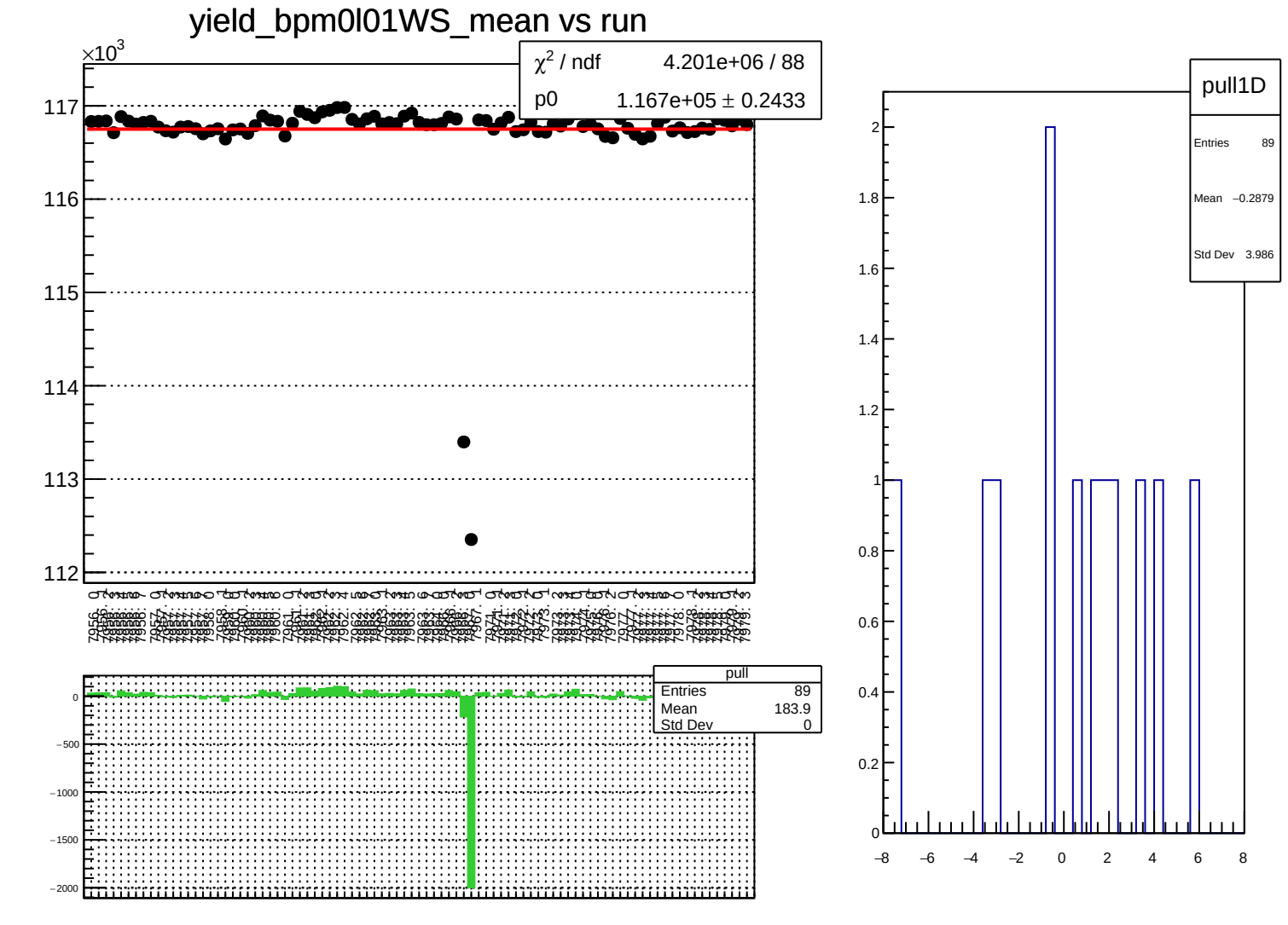

pull1D
Entries 89
Mean 0.8044
Std Dev 4.904
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

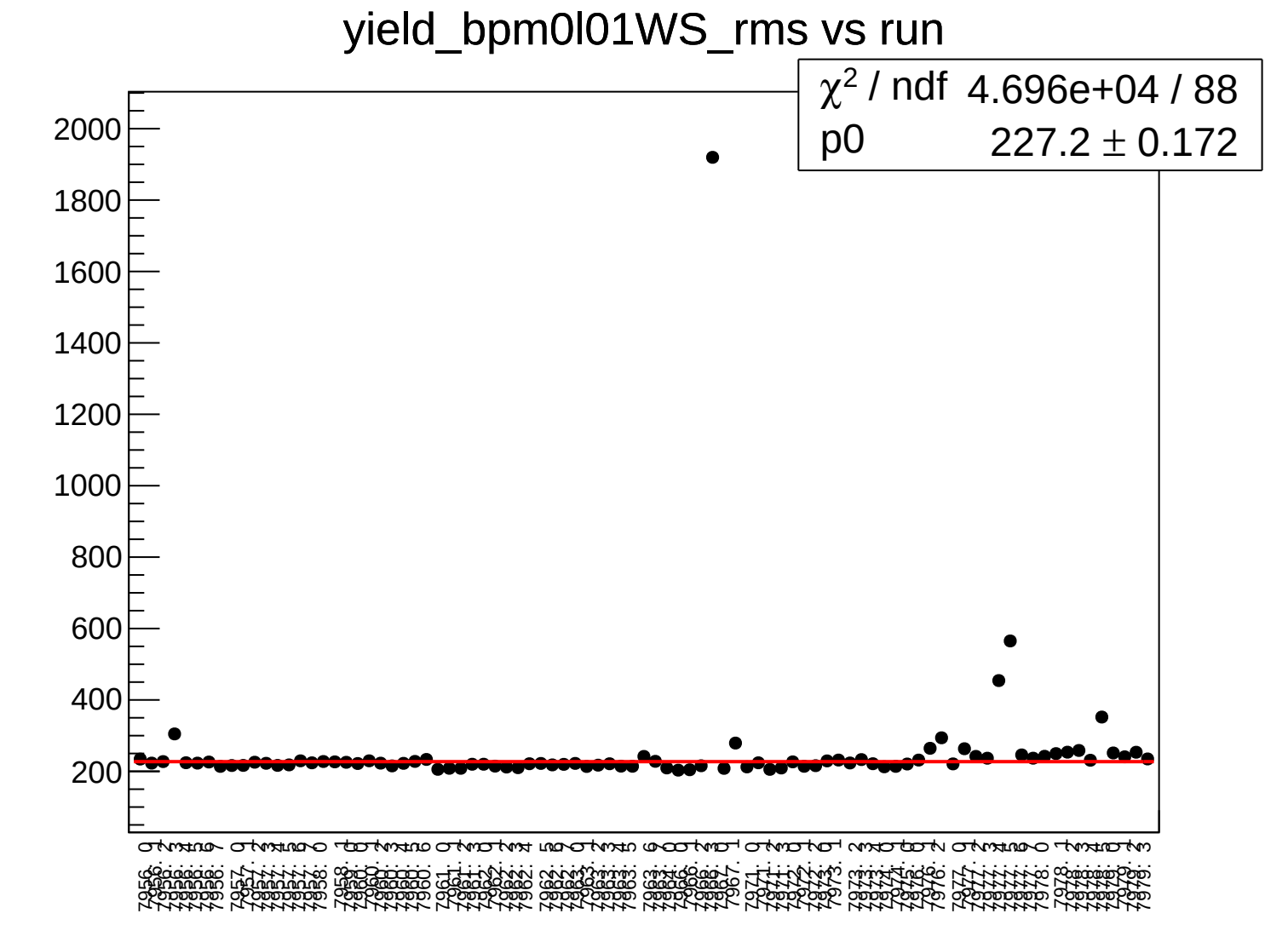

yield_bpm0i01WS_rms vs run
χ² / ndf 3.573e+04 / 88
p0 312.8 ± 0.2361
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

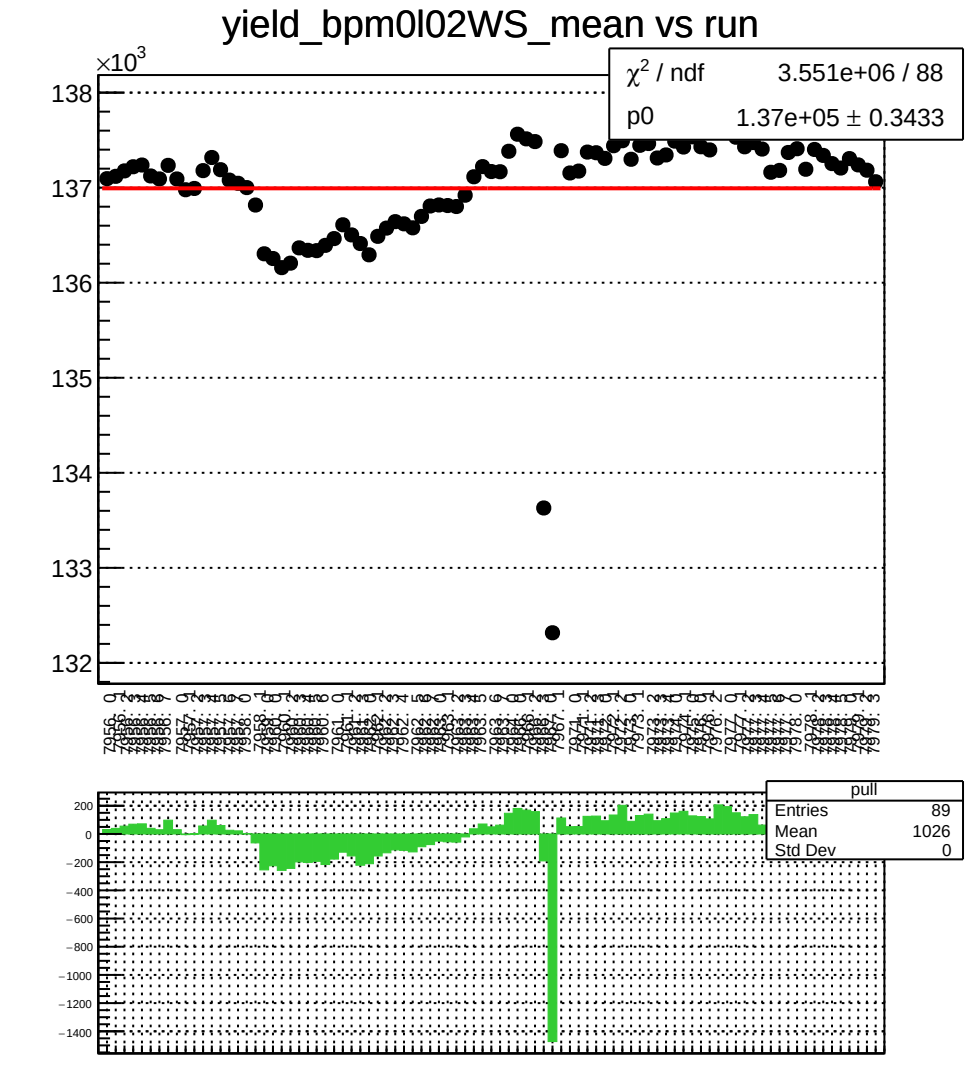

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 2.415e+06 / 88
p0 1.536e+05 ± 0.3023
154
153
152
151
150
149
pull
Entries 89
Mean 242
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

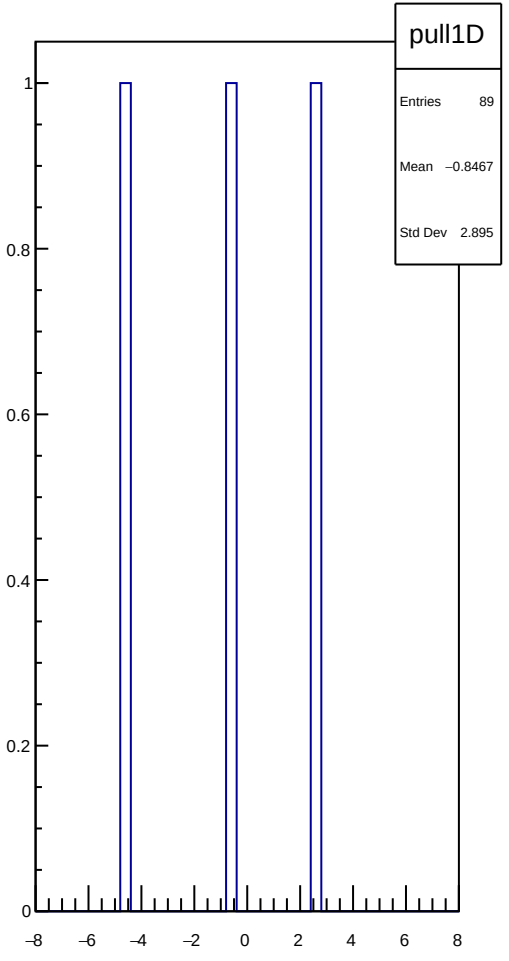

pull1D
Entries 89
Mean 0.976
Std Dev 4.425
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i01aWS_rms vs run
χ² / ndf 3.635e+04 / 88
p0 283.1 ± 0.2138
2000
1800
1600
1400
1200
1000
800
600
400
200


yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.201e+06 / 88
p0 1.167e+05 ± 0.2433
117
116
115
114
113
112
pull
Entries 89
Mean 183.9
Std Dev 0
0
−500
−1000
−1500
−2000
pull1D
Entries 89
Mean −0.2879
Std Dev 3.986
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 4.696e+04 / 88
p0 227.2 ± 0.172
2000
1800
1600
1400
1200
1000
800
600
400
200


yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 3.551e+06 / 88
p0 1.37e+05 ± 0.3433
138
137
136
135
134
133
132
pull
Entries 89
Mean 1026
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400


pull1D
Entries 89
Mean −0.8467
Std Dev 2.895
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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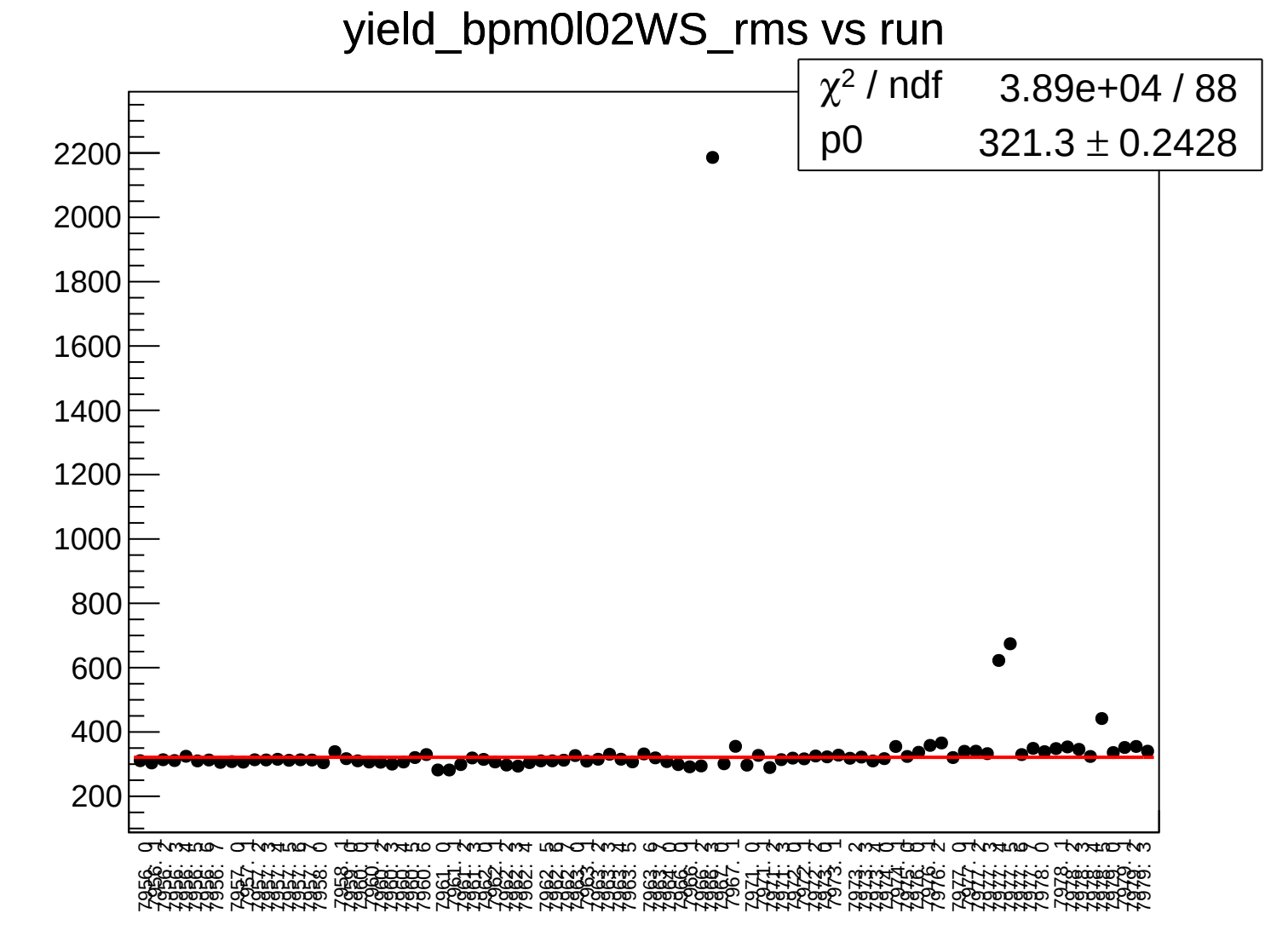
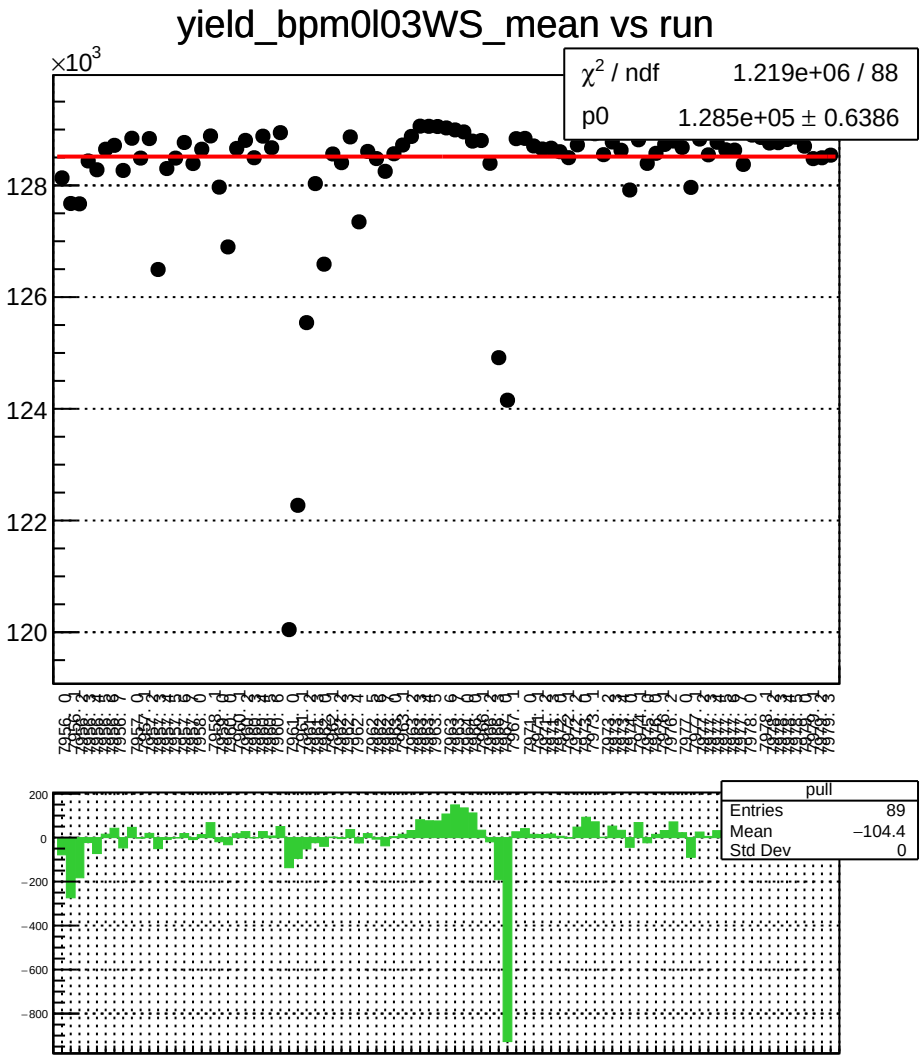
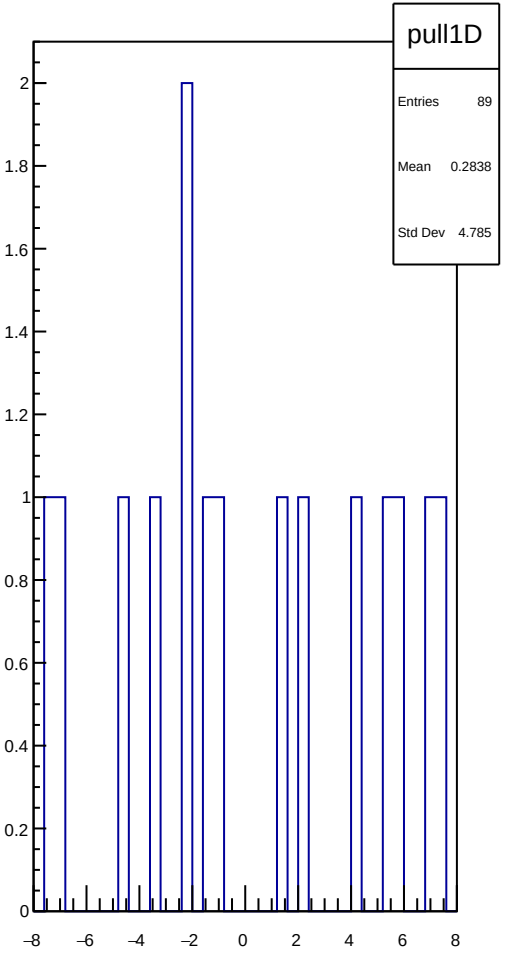
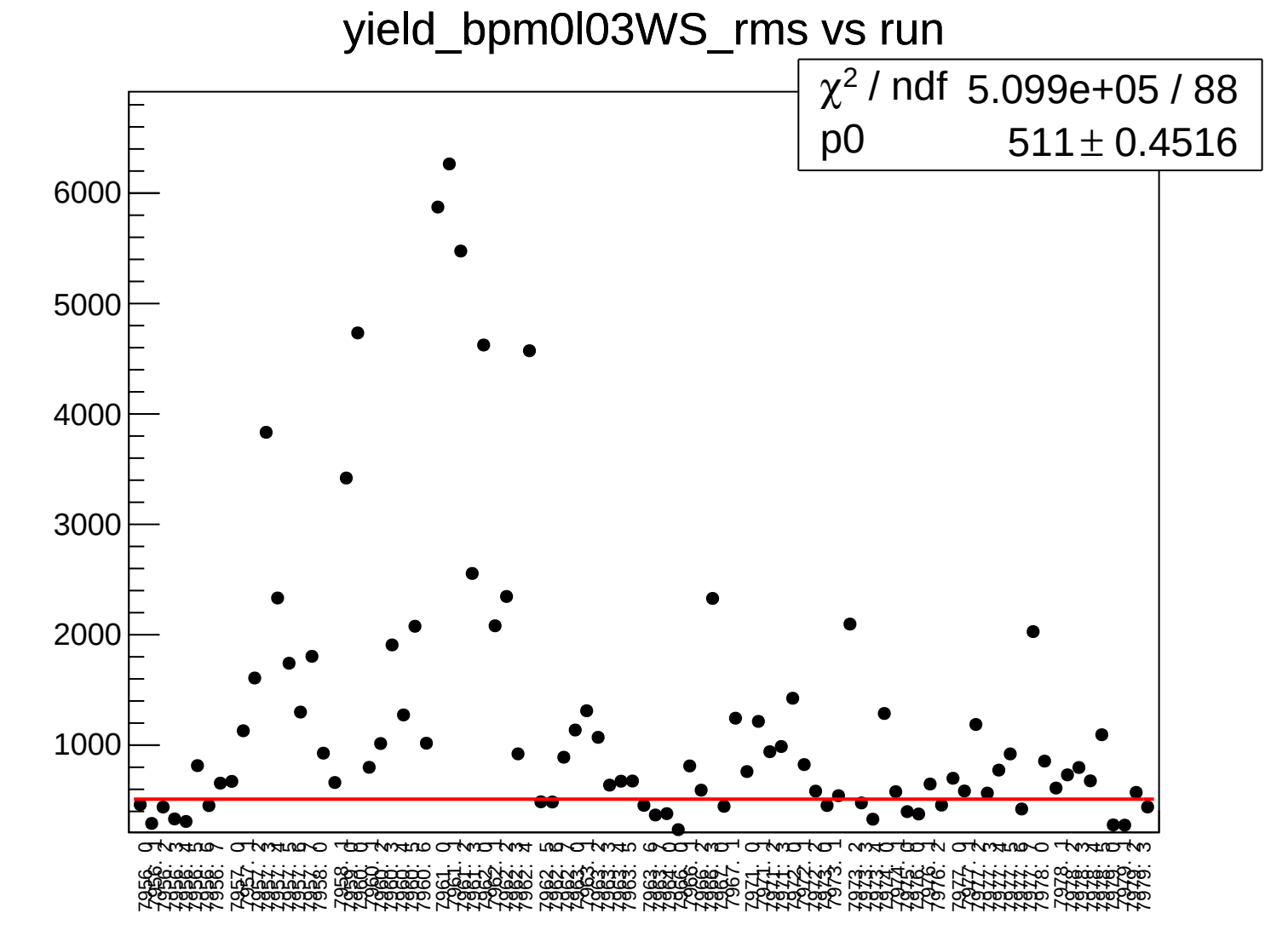
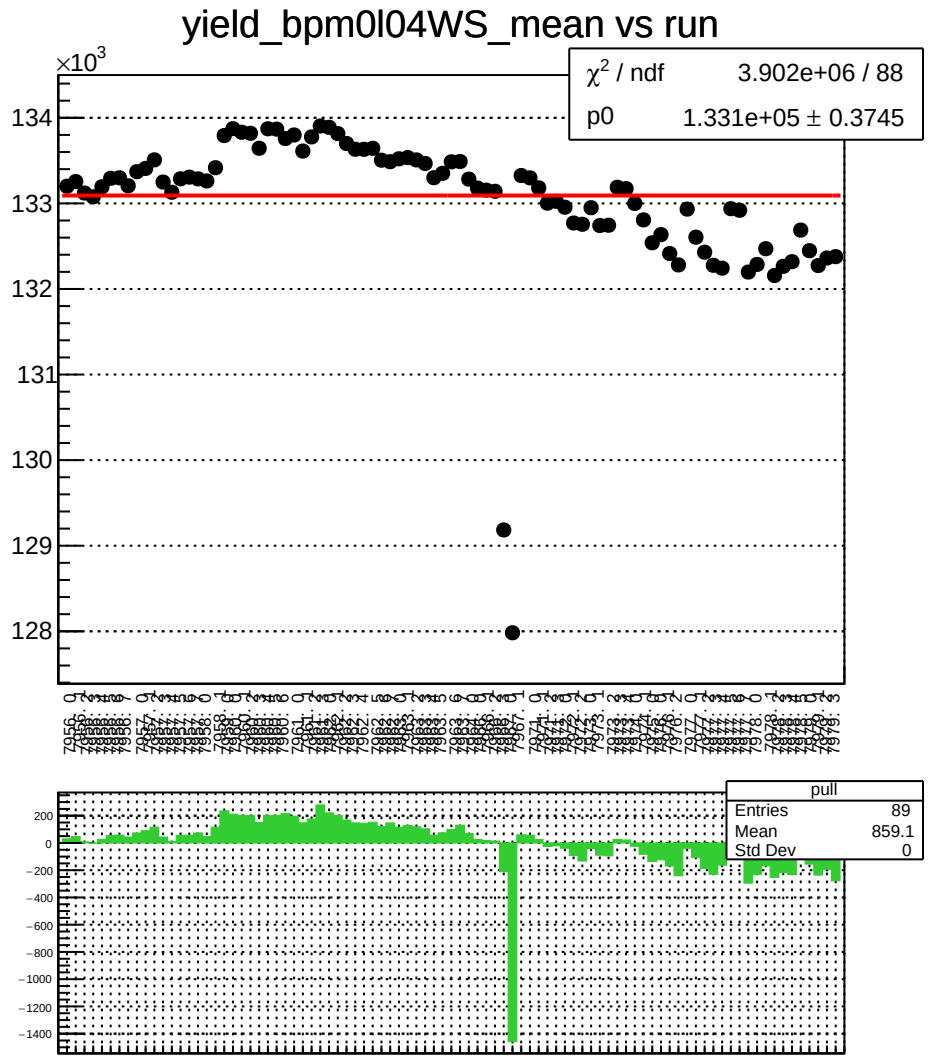
0
2
4
6
8

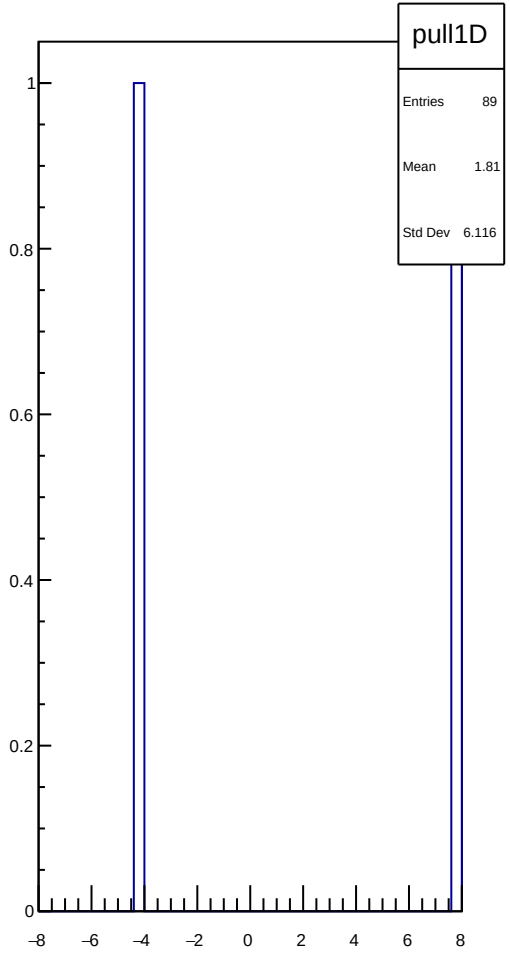

yield_bpm0l02WS_rms vs run
χ² / ndf 3.89e+04 / 88
p0 321.3 ± 0.2428
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

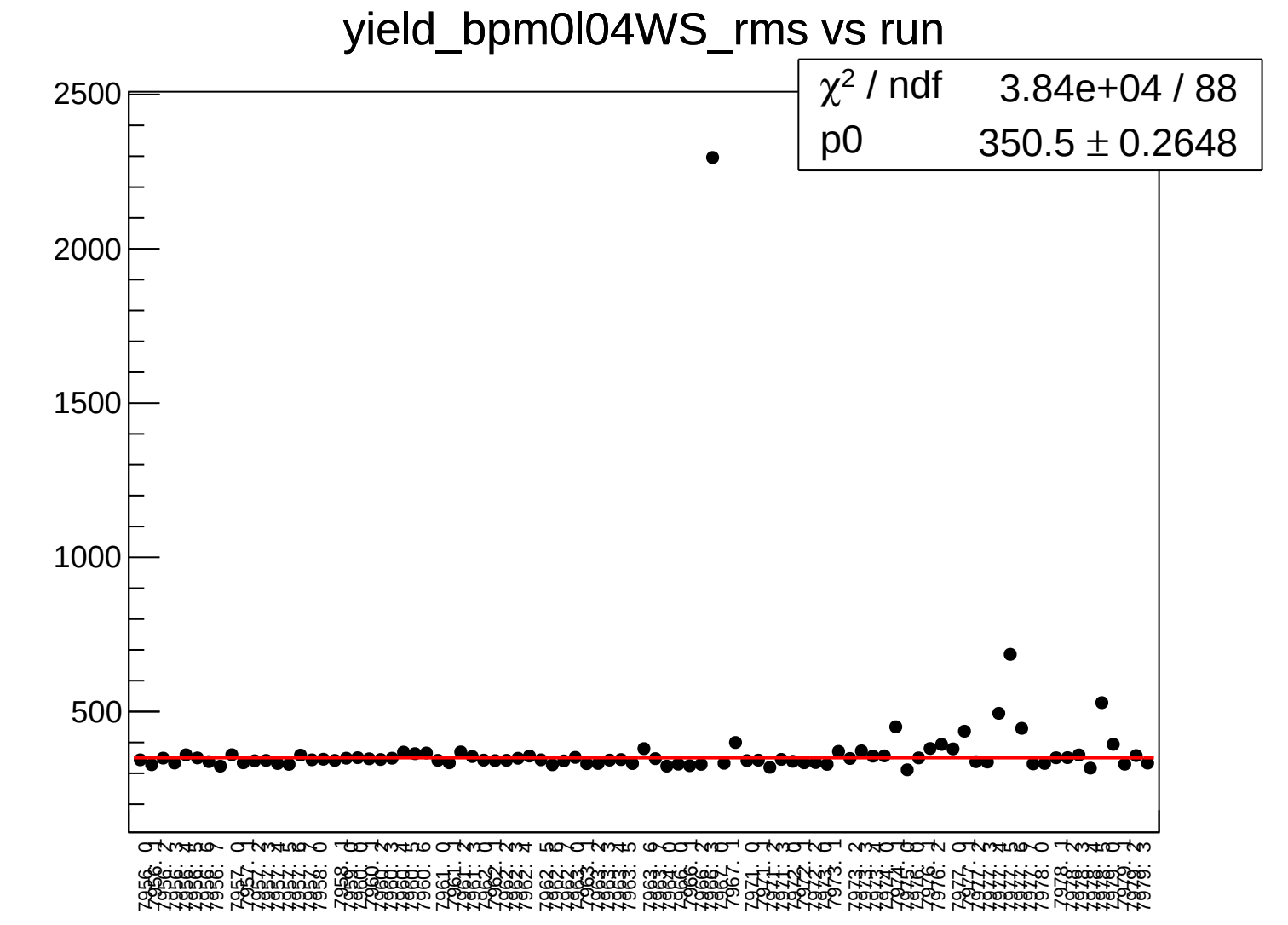

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.219e+06 / 88
p0 1.285e+05 ± 0.6386
128
126
124
122
120
pull
Entries 89
Mean −104.4
Std Dev 0
200
0
−200
−400
−600
−800

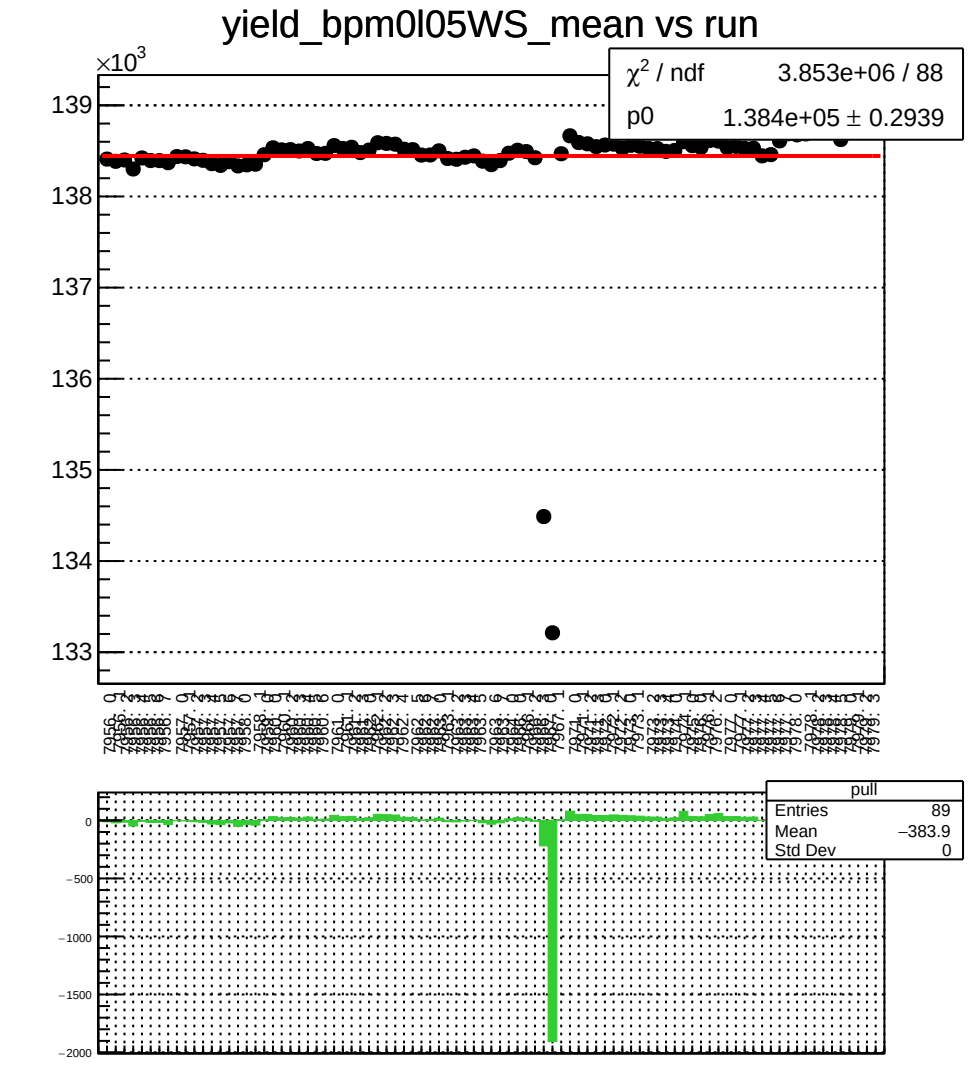

pull1D
Entries 89
Mean 0.2838
Std Dev 4.785
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

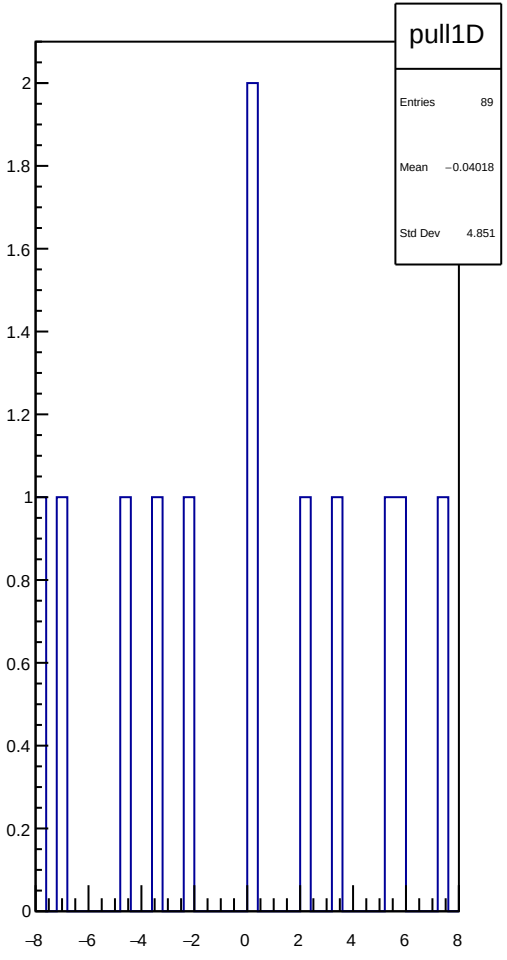

yield_bpm0l03WS_rms vs run
$\chi^2$ / ndf 5.099e+05 / 88
p0 511 ± 0.4516
6000
5000
4000
3000
2000
1000

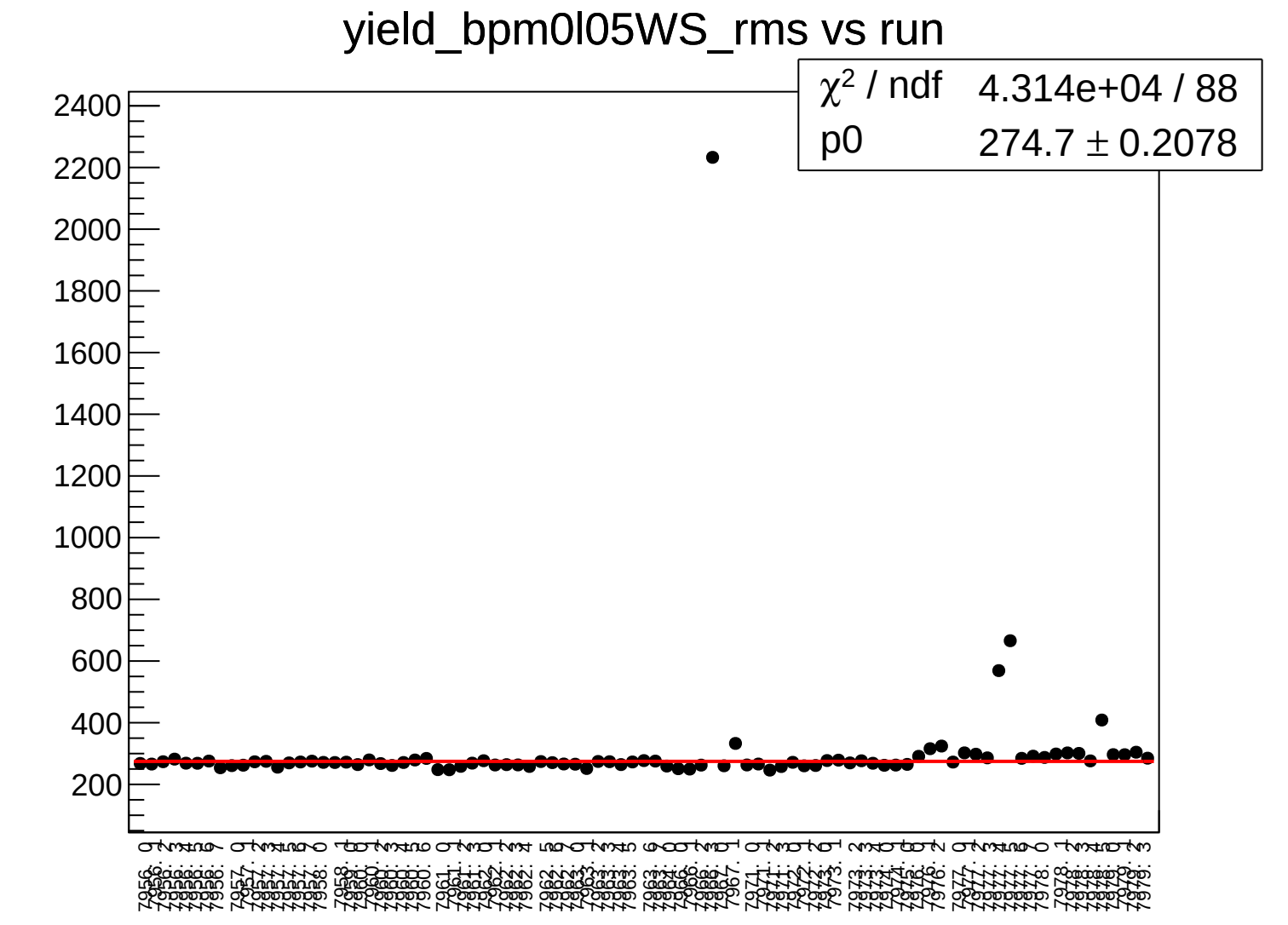

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 3.902e+06 / 88
p0 1.331e+05 ± 0.3745
134
133
132
131
130
129
128
pull
Entries 89
Mean 859.1
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400

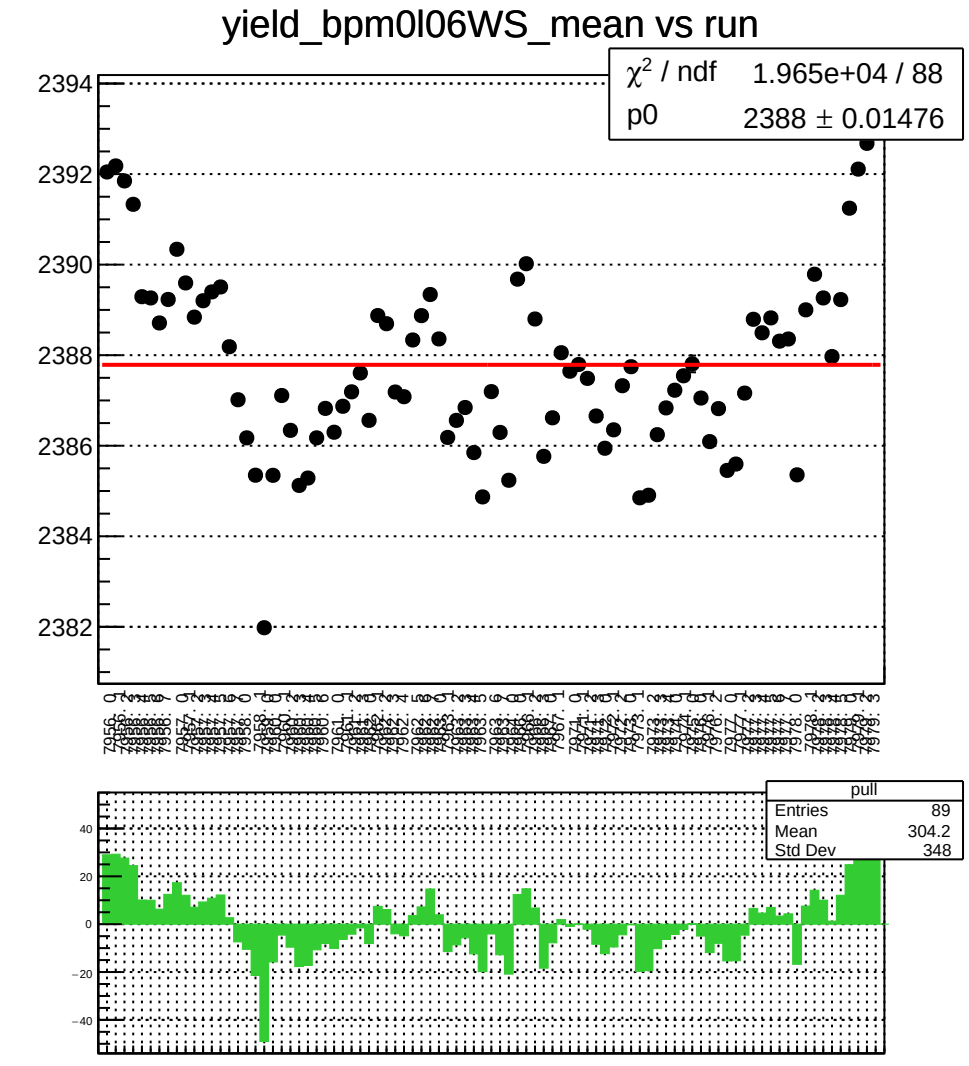

pull1D
Entries 89
Mean 1.81
Std Dev 6.116
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

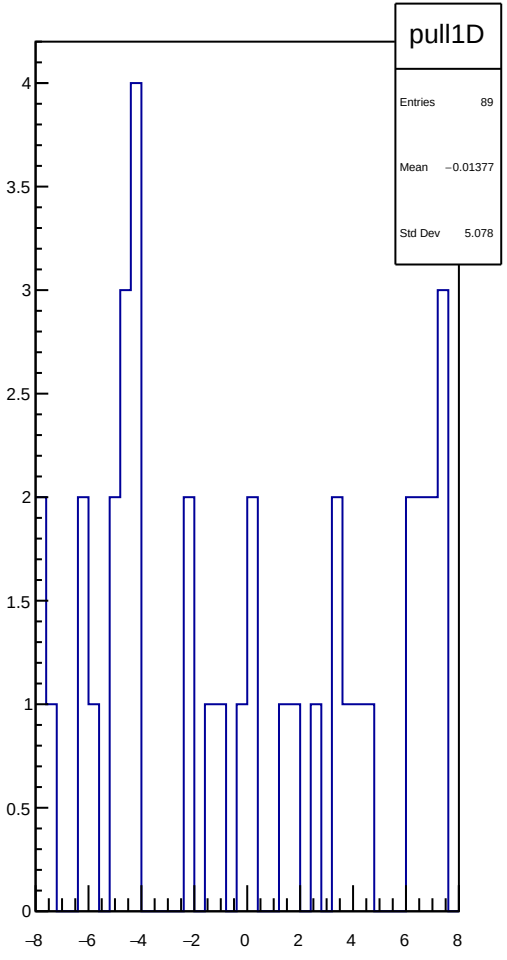

yield_bpm0l04WS_rms vs run
χ² / ndf 3.84e+04 / 88
p0 350.5 ± 0.2648
2500
2000
1500
1000
500

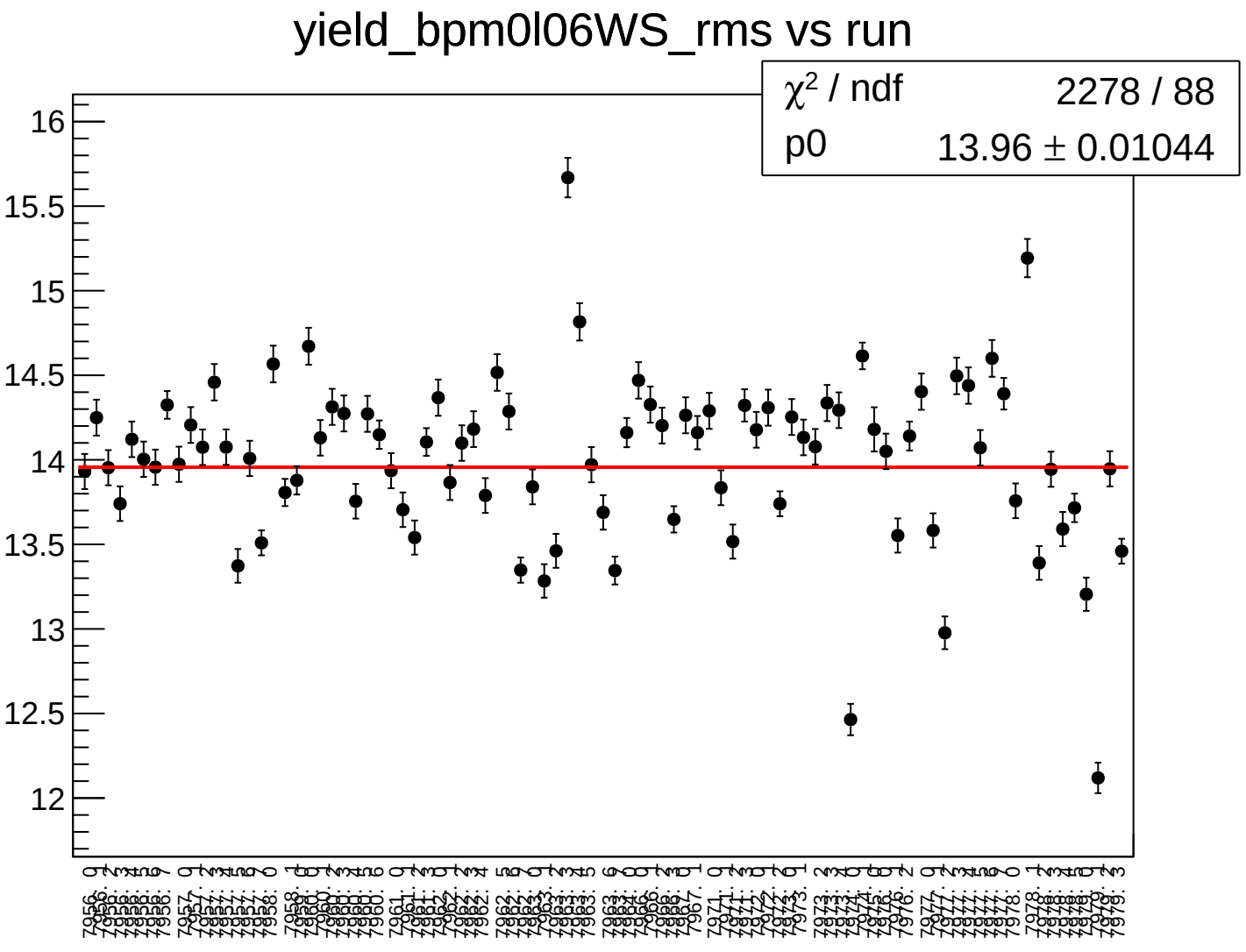

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 3.853e+06 / 88
p0 1.384e+05 ± 0.2939
139
138
137
136
135
134
133
pull
Entries 89
Mean −383.9
Std Dev 0
0
−500
−1000
−1500
−2000

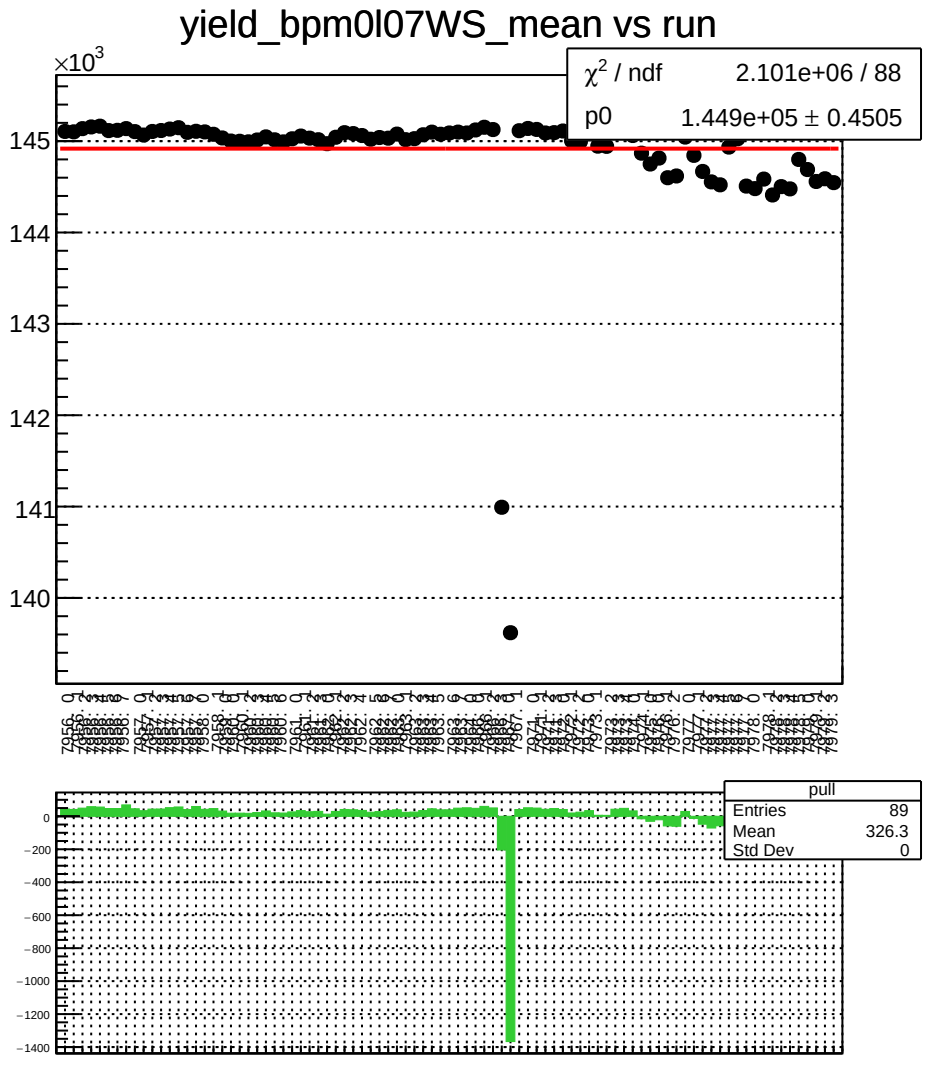

pull1D
Entries 89
Mean −0.04018
Std Dev 4.851
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

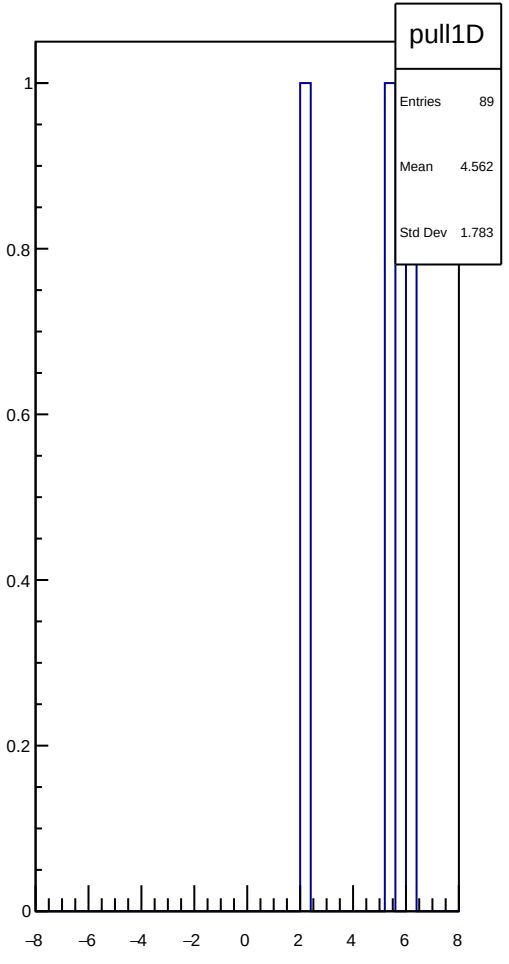

yield_bpm0l05WS_rms vs run
χ² / ndf 4.314e+04 / 88
p0 274.7 ± 0.2078
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

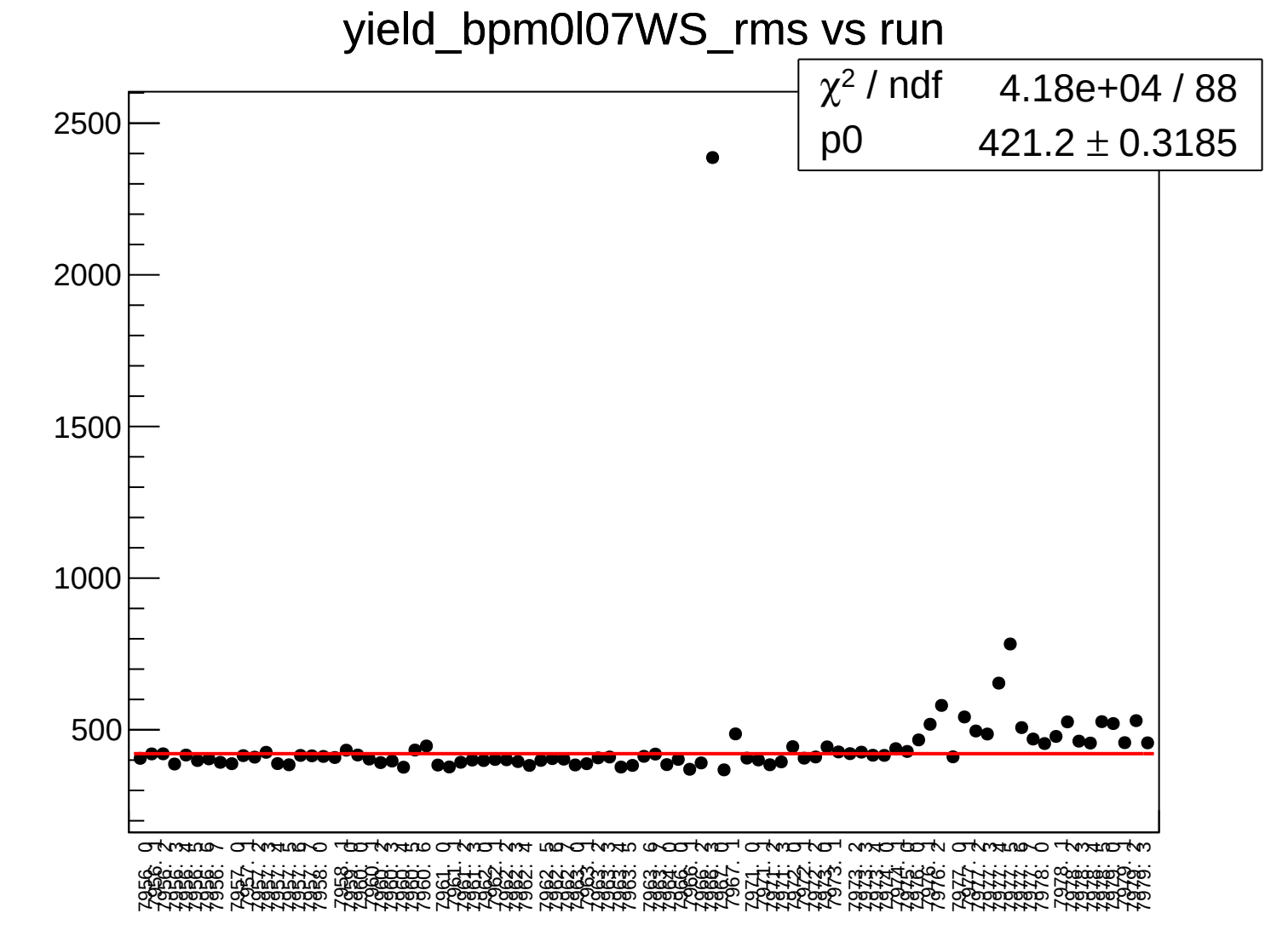

yield_bpm0l06WS_mean vs run
χ² / ndf 1.965e+04 / 88
p0 2388 ± 0.01476
2394
2392
2390
2388
2386
2384
2382
pull
Entries 89
Mean 304.2
Std Dev 348
40
20
0
−20
−40

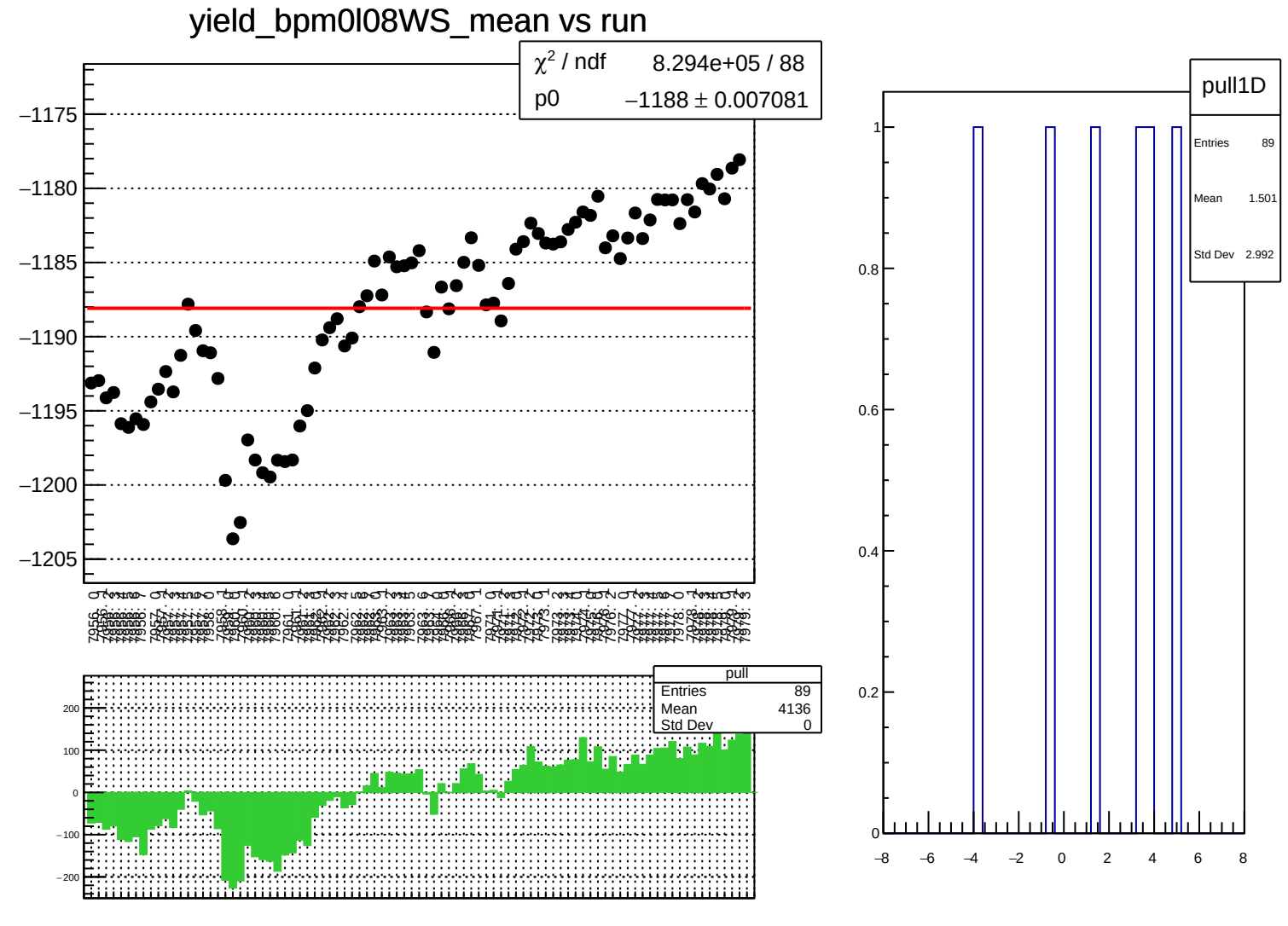

pull1D
Entries 89
Mean −0.01377
Std Dev 5.078
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

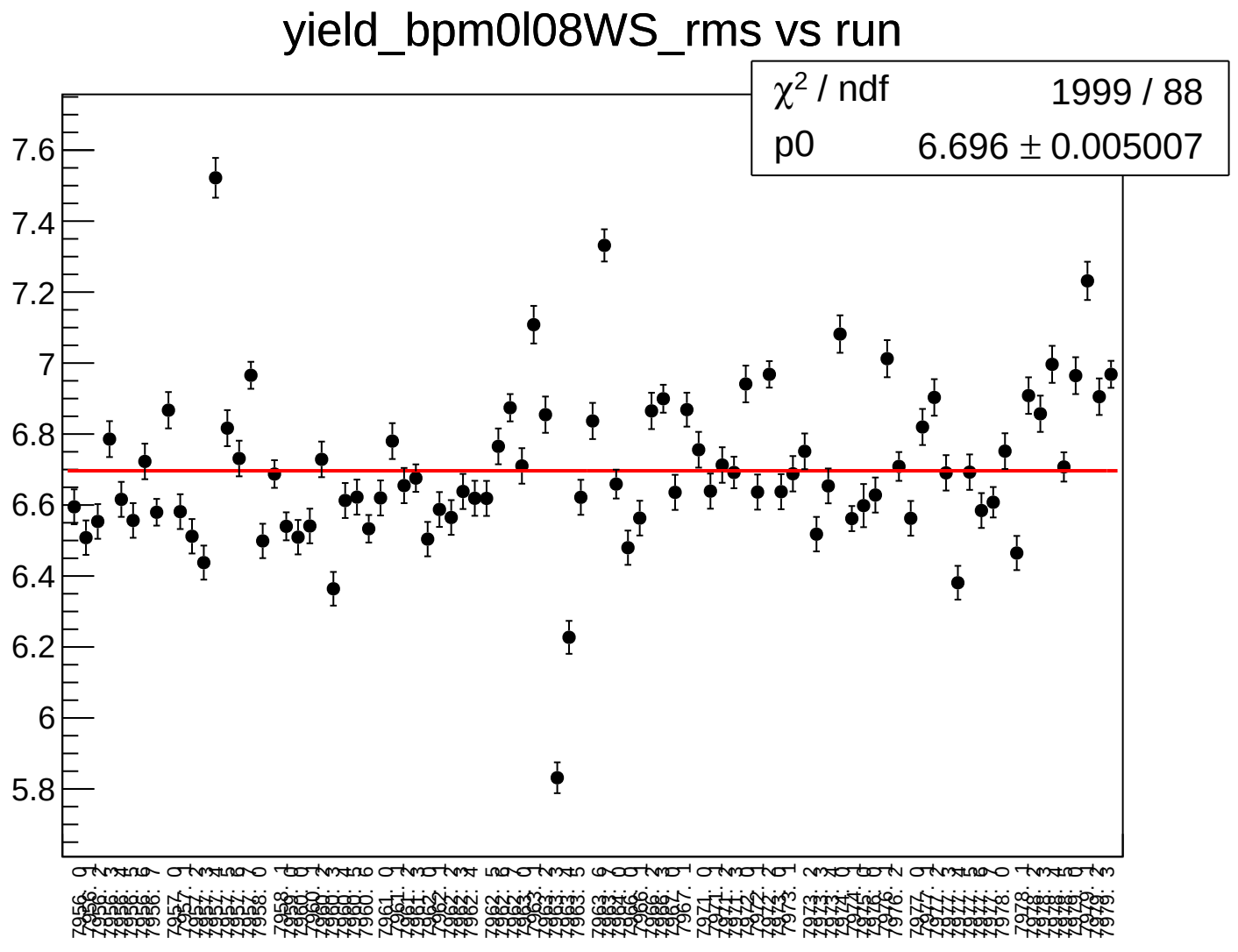

yield_bpm0l06WS_rms vs run
χ² / ndf 2278 / 88
p0 13.96 ± 0.01044
16
15.5
15
14.5
14
13.5
13
12.5
12

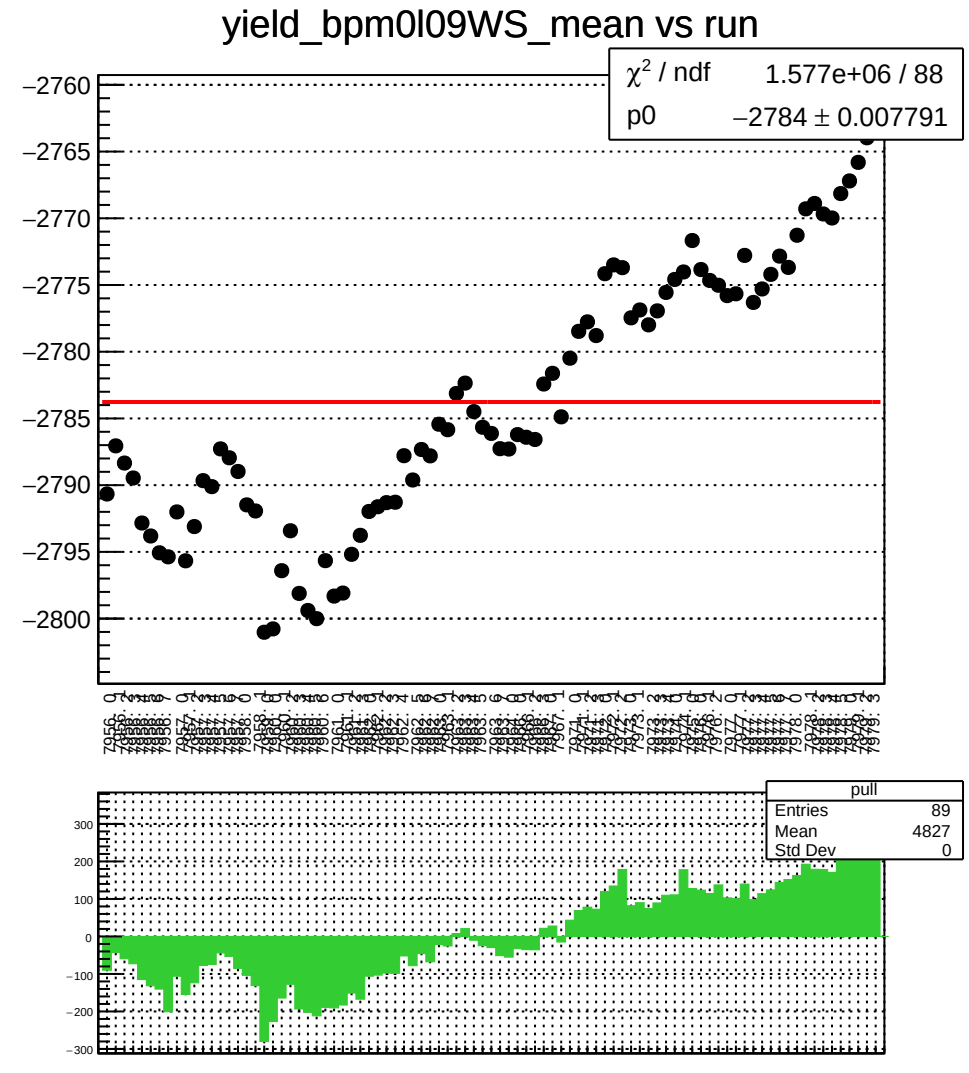

yield_bpm0l07WS_mean vs run
×10^3
χ^2 / ndf 2.101e+06 / 88
p0 1.449e+05 ± 0.4505
145
144
143
142
141
140
pull
Entries 89
Mean 326.3
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400

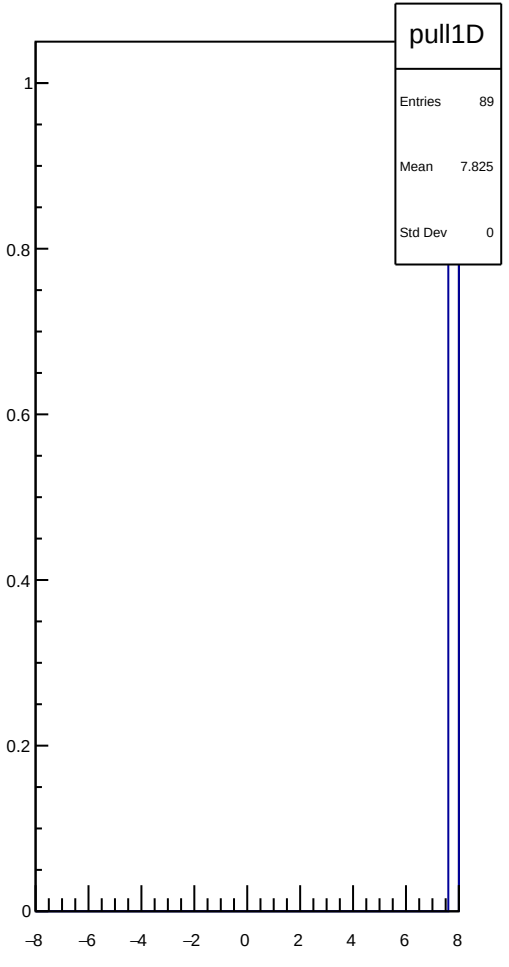

pull1D
Entries 89
Mean 4.562
Std Dev 1.783
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

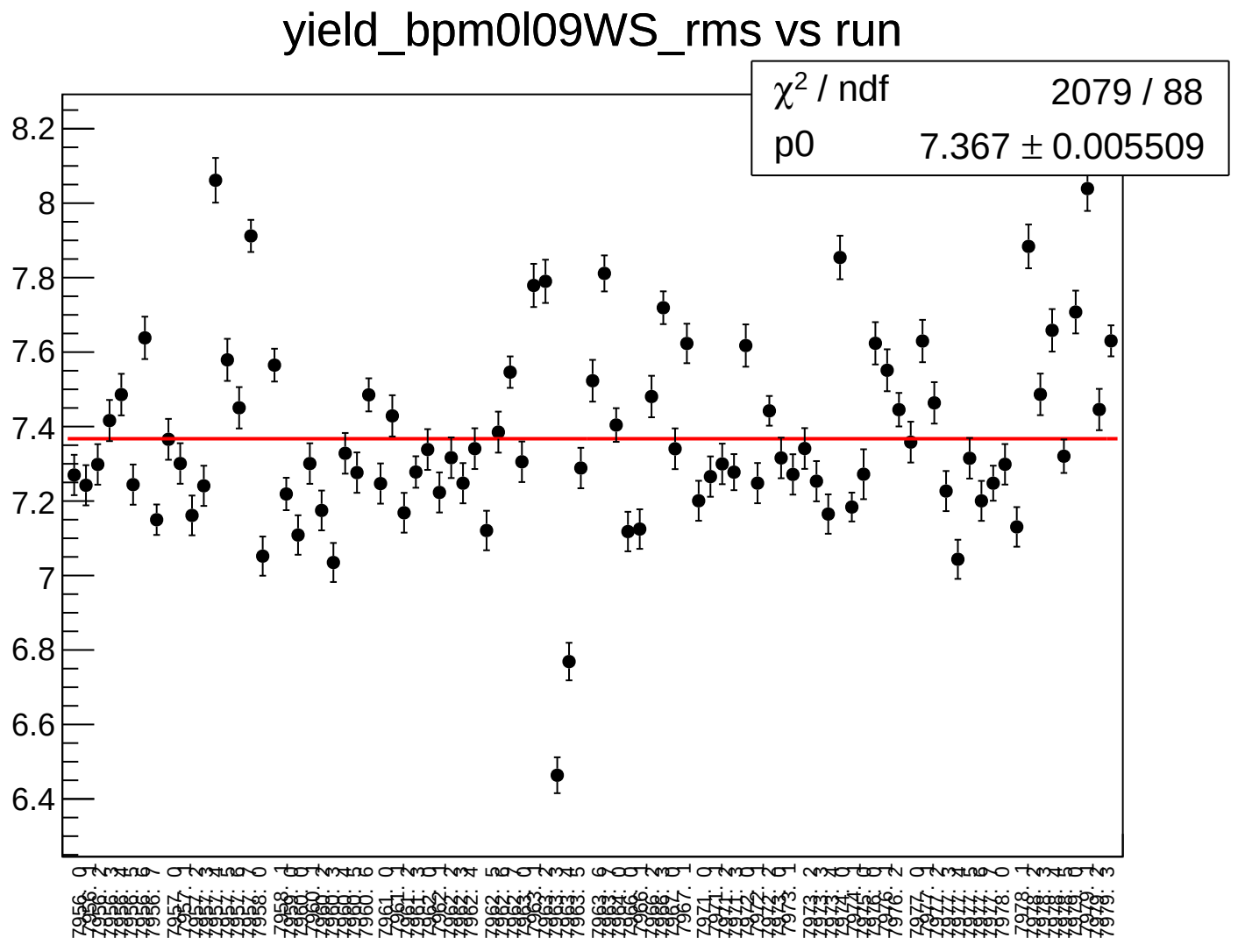

yield_bpm0l07WS_rms vs run
χ² / ndf 4.18e+04 / 88
p0 421.2 ± 0.3185
2500
2000
1500
1000
500

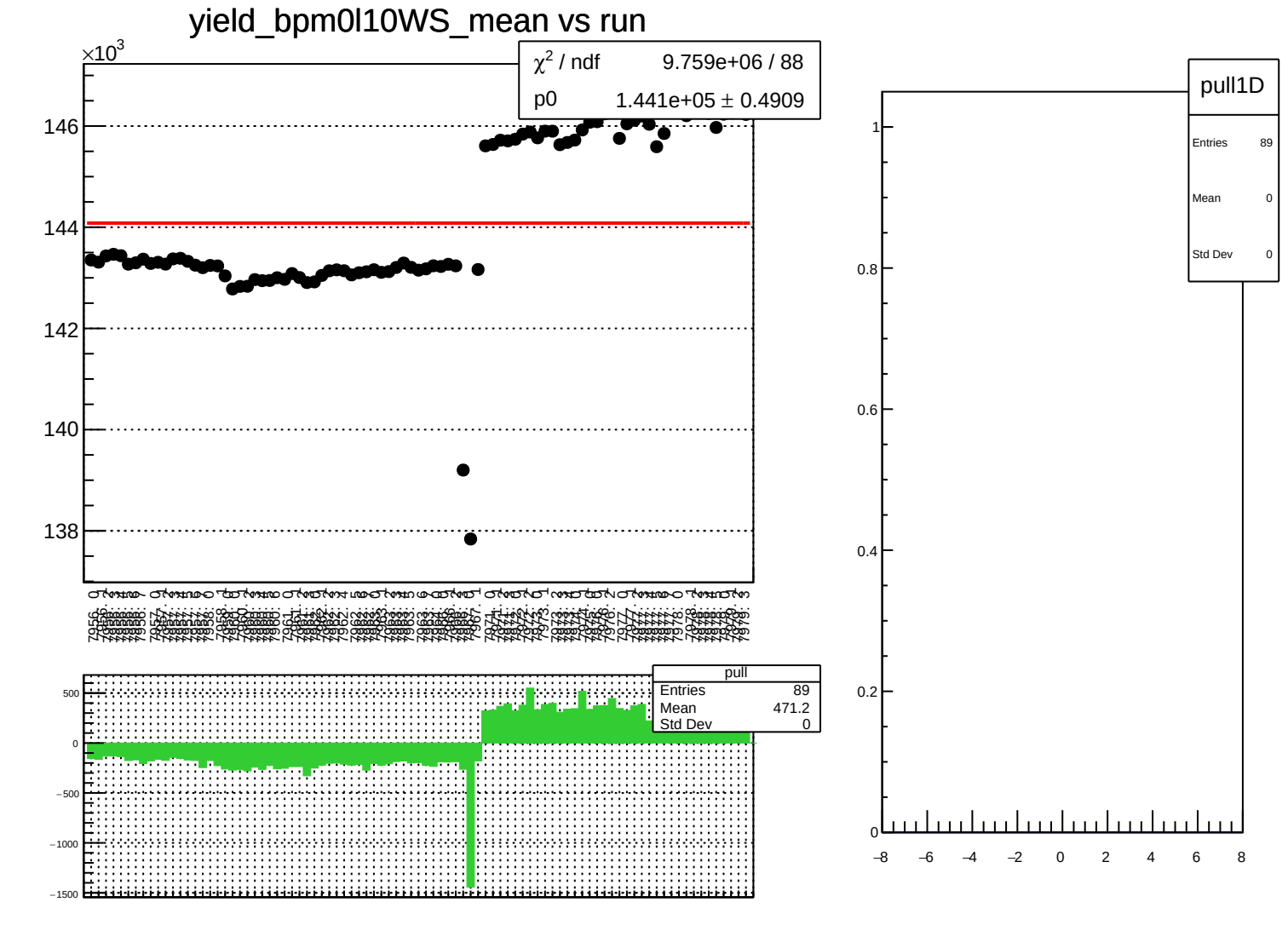

yield_bpm0l08WS_mean vs run
χ² / ndf 8.294e+05 / 88
p0 −1188 ± 0.007081
−1175
−1180
−1185
−1190
−1195
−1200
−1205
pull
Entries 89
Mean 4136
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 89
Mean 1.501
Std Dev 2.992
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

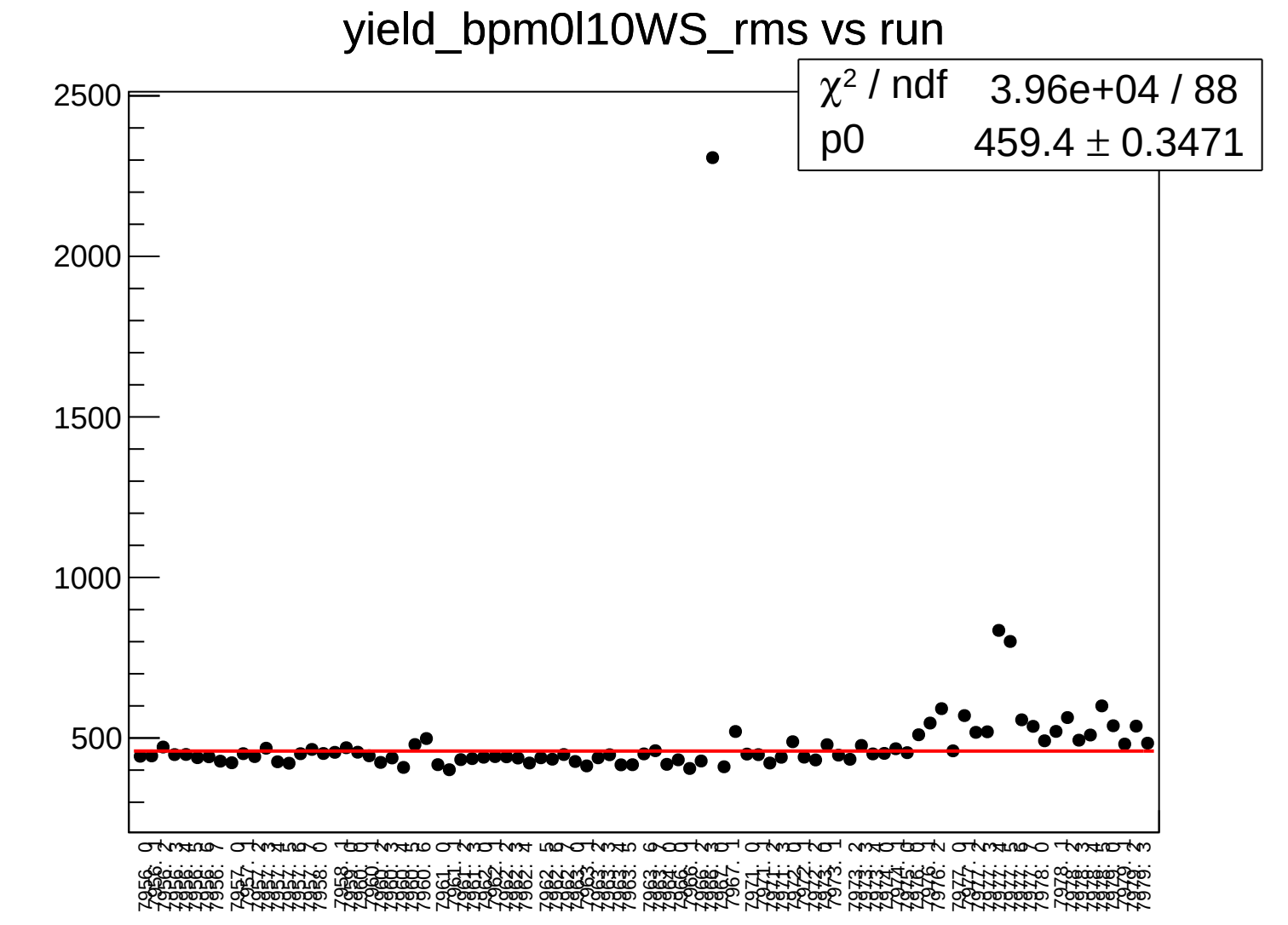

yield_bpm0l08WS_rms vs run
χ² / ndf 1999 / 88
p0 6.696 ± 0.005007
7.6
7.4
7.2
7
6.8
6.6
6.4
6.2
6
5.8

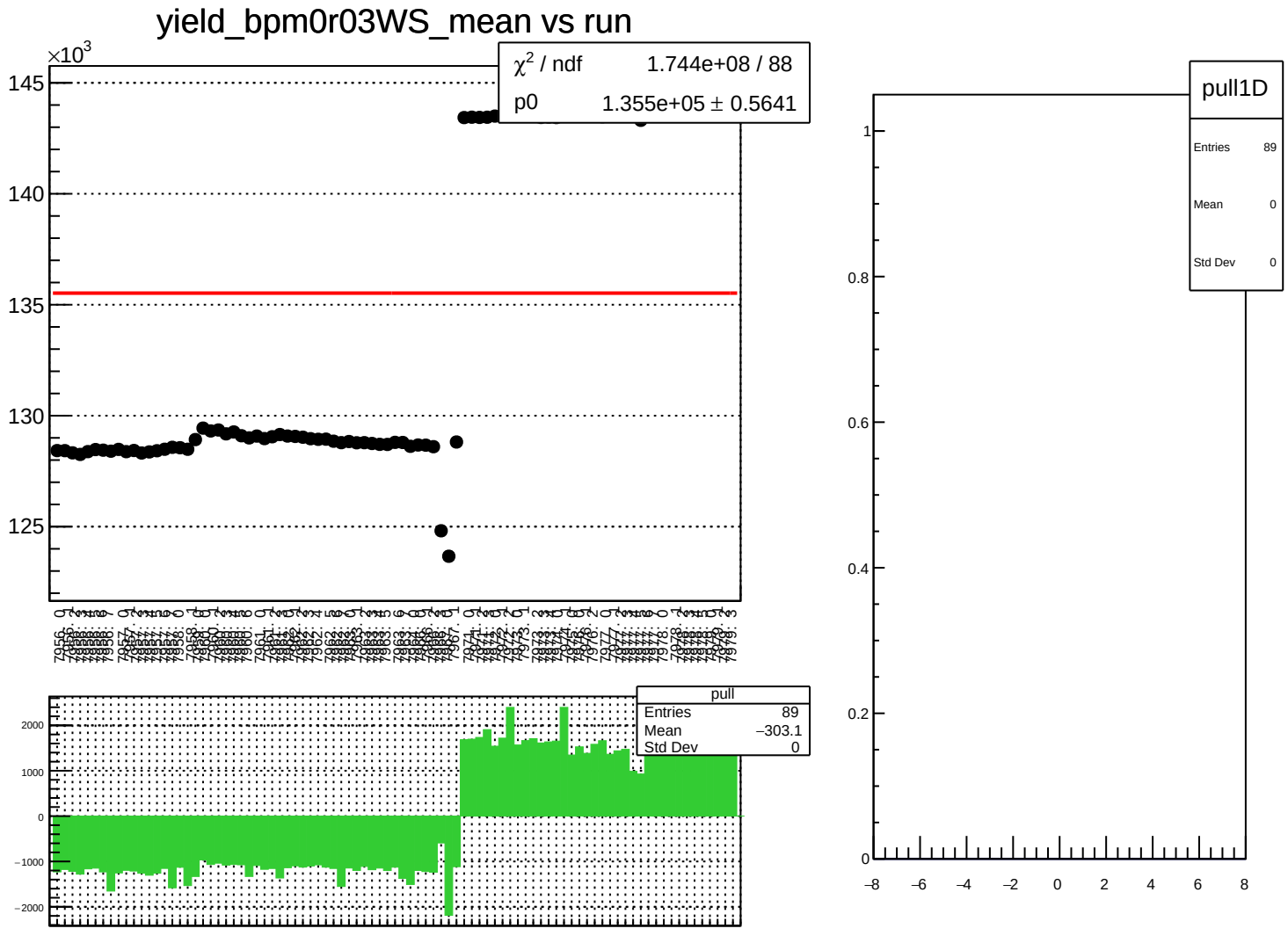

yield_bpm0l09WS_mean vs run
χ² / ndf 1.577e+06 / 88
p0 −2784 ± 0.007791
−2760
−2765
−2770
−2775
−2780
−2785
−2790
−2795
−2800
pull
Entries 89
Mean 4827
Std Dev 0
300
200
100
0
−100
−200
−300

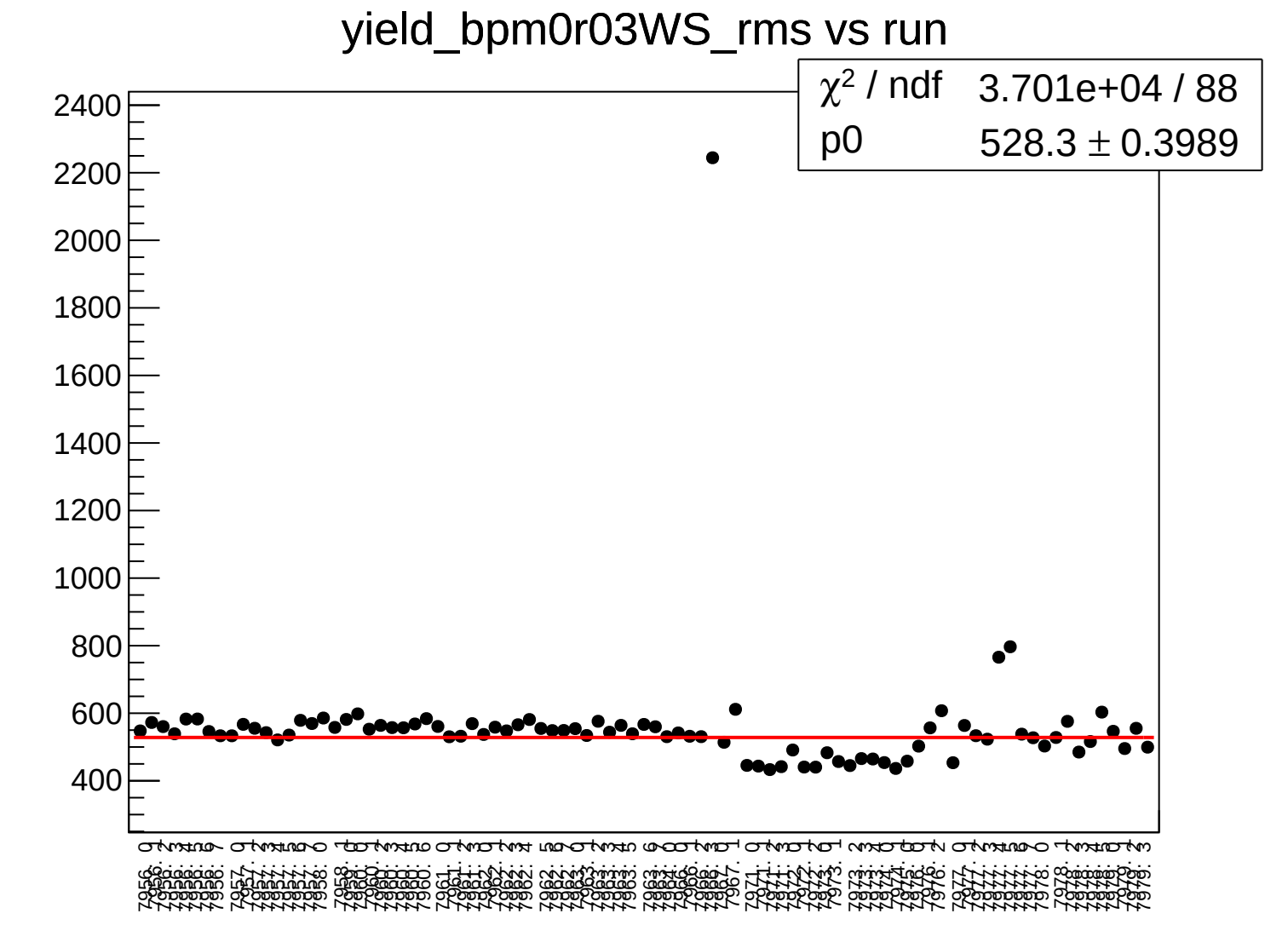

pull1D
Entries 89
Mean 7.825
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

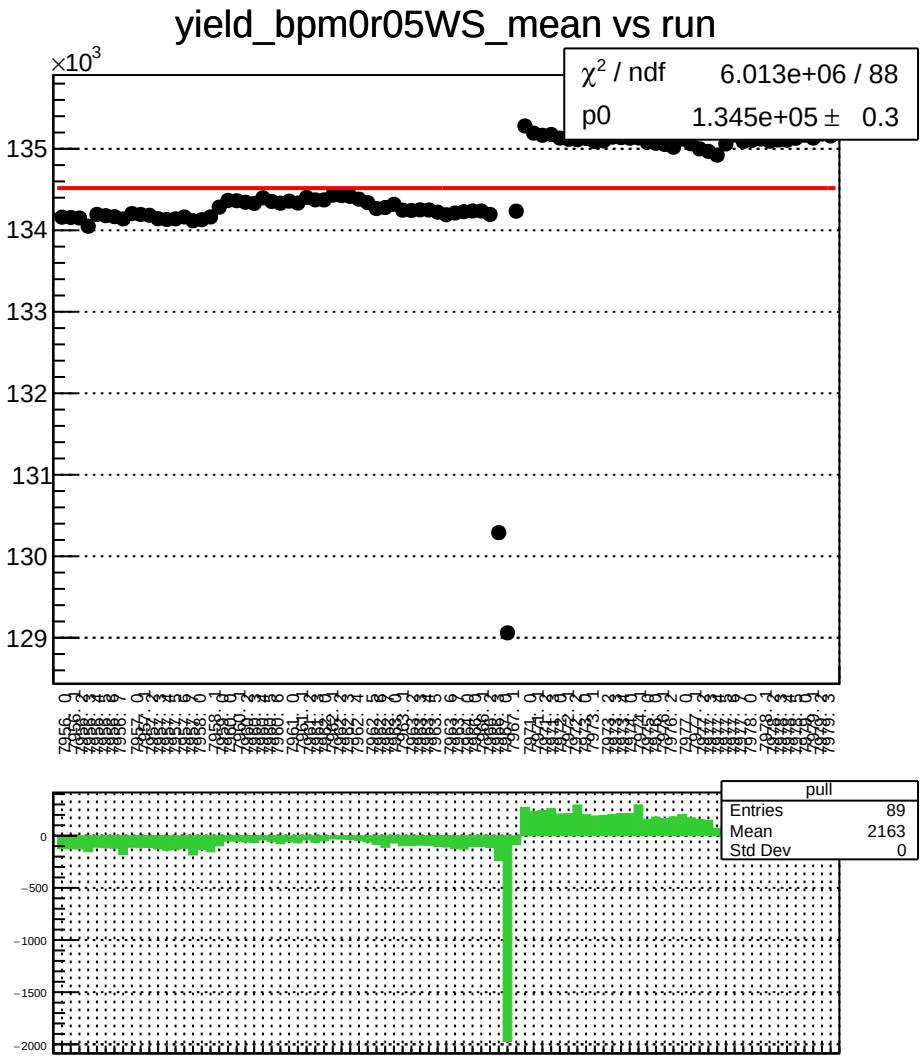

yield_bpm0l09WS_rms vs run
χ² / ndf 2079 / 88
p0 7.367 ± 0.005509
8.2
8
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4

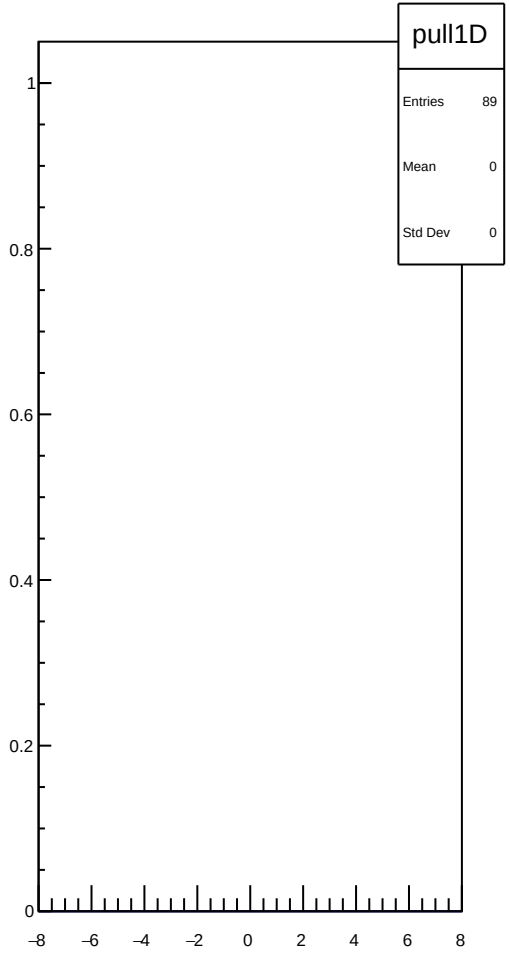

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 9.759e+06 / 88
p0 1.441e+05 ± 0.4909
146
144
142
140
138
pull
Entries 89
Mean 471.2
Std Dev 0
500
0
−500
−1000
−1500
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

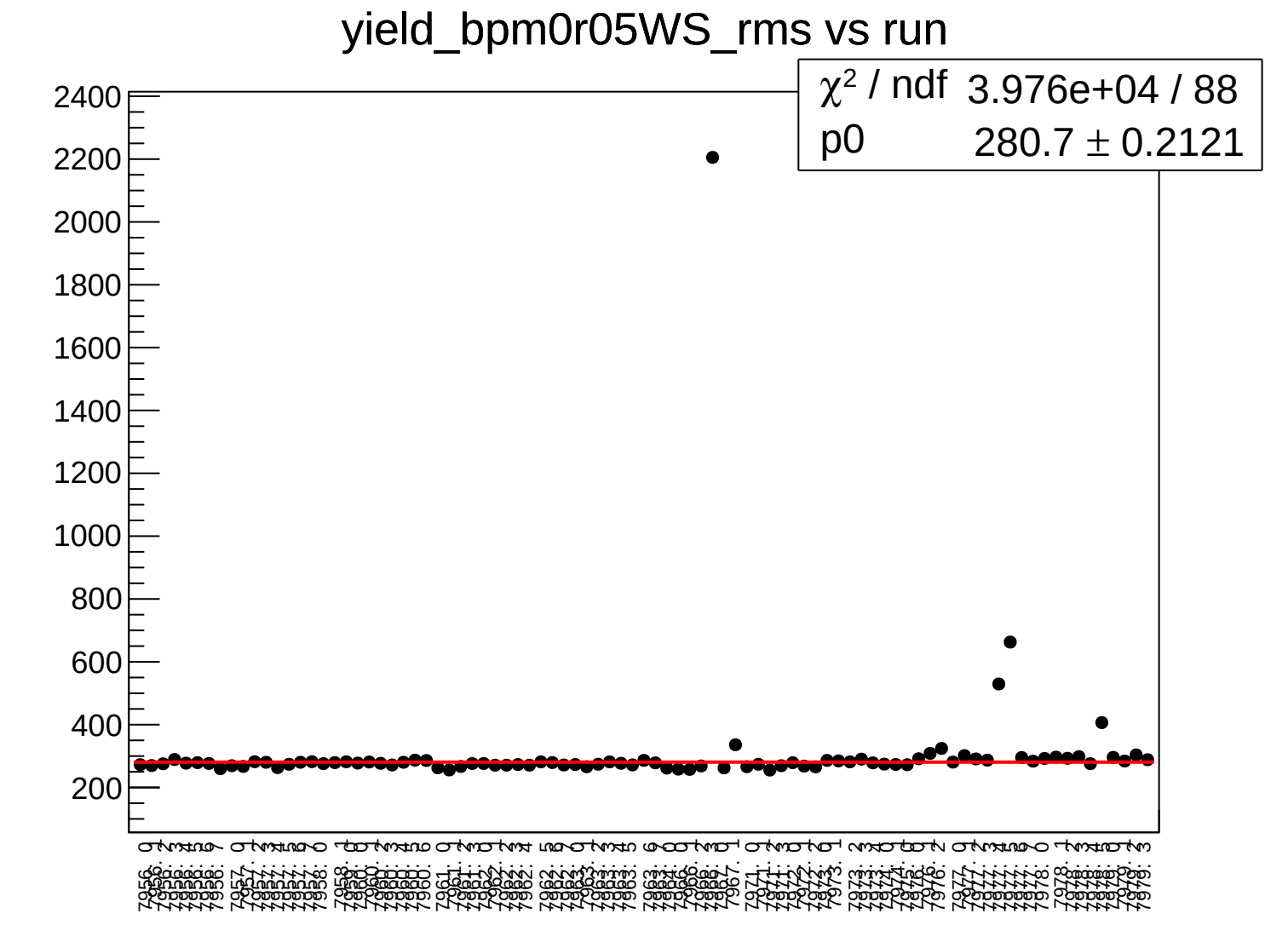

yield_bpm0l10WS_rms vs run
χ² / ndf 3.96e+04 / 88
p0 459.4 ± 0.3471
2500
2000
1500
1000
500

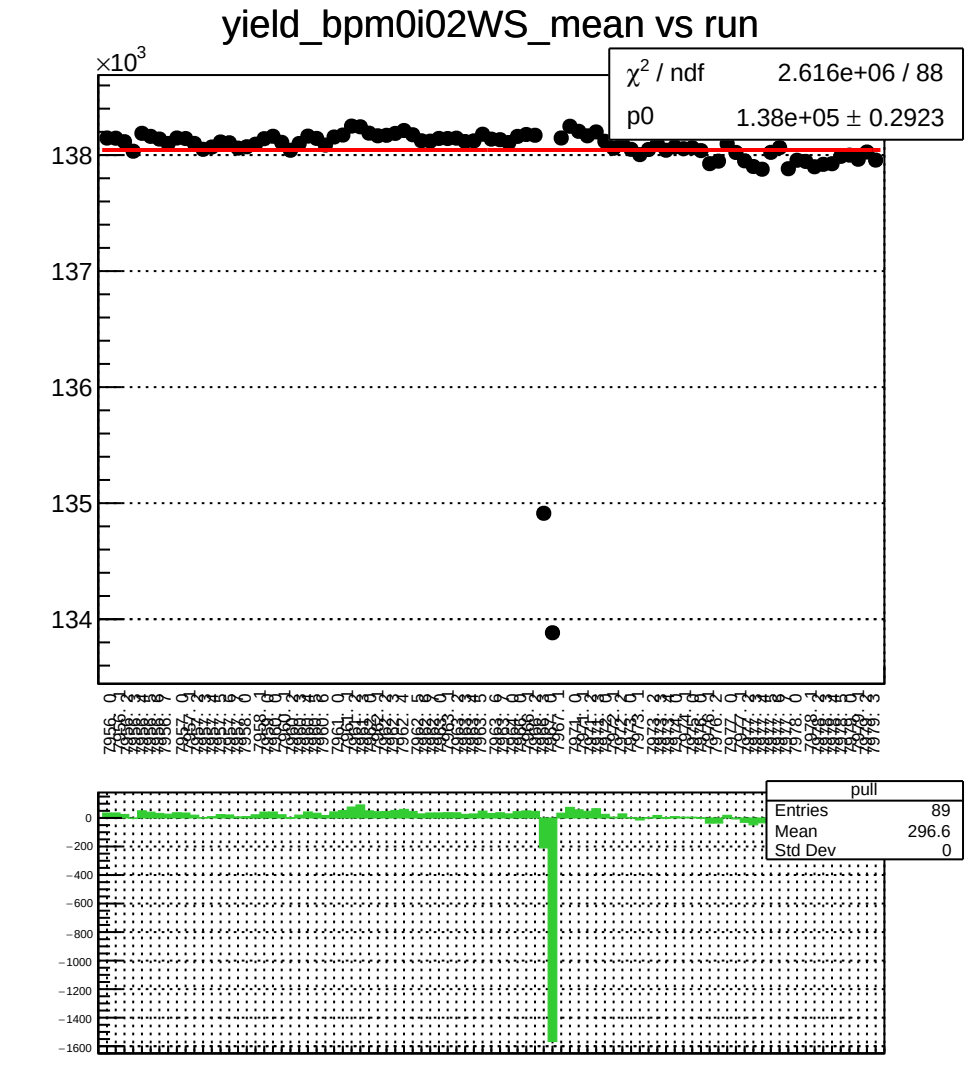

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.744e+08 / 88
p0 1.355e+05 ± 0.5641
145
140
135
130
125
pull
Entries 89
Mean −303.1
Std Dev 0
2000
1000
0
−1000
−2000
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

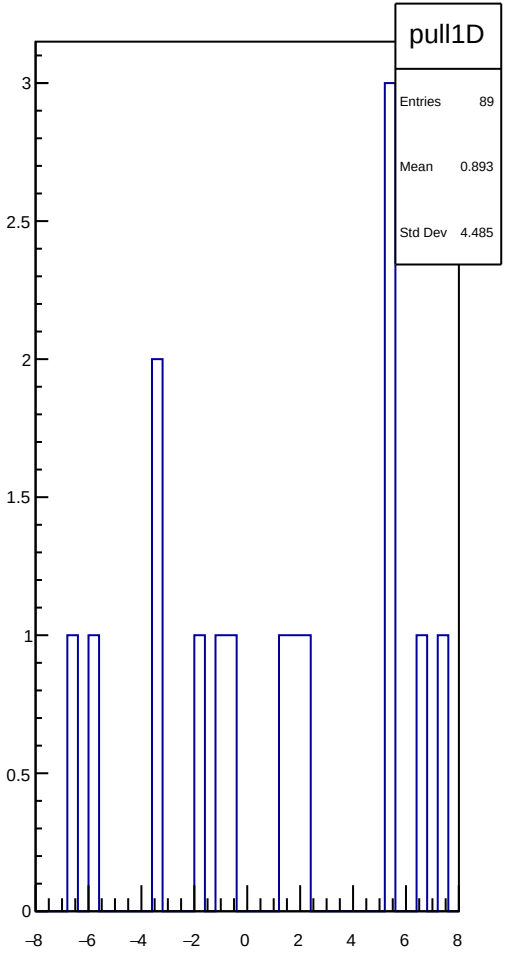

yield_bpm0r03WS_rms vs run
$\chi^2$ / ndf 3.701e+04 / 88
p0 528.3 ± 0.3989
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400

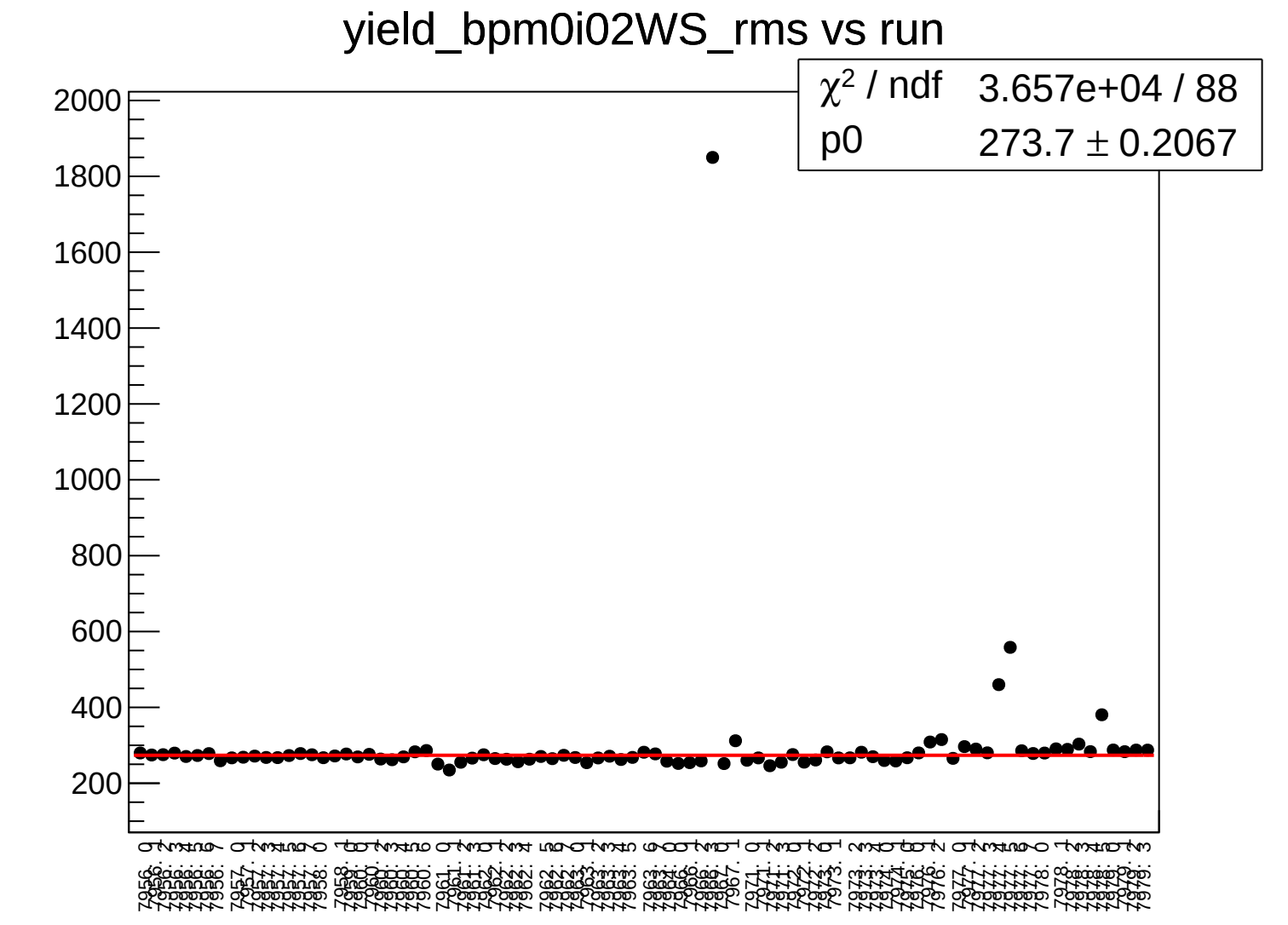

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 6.013e+06 / 88
p0 1.345e+05 ± 0.3
135
134
133
132
131
130
129
pull
Entries 89
Mean 2163
Std Dev 0
0
−500
−1000
−1500
−2000

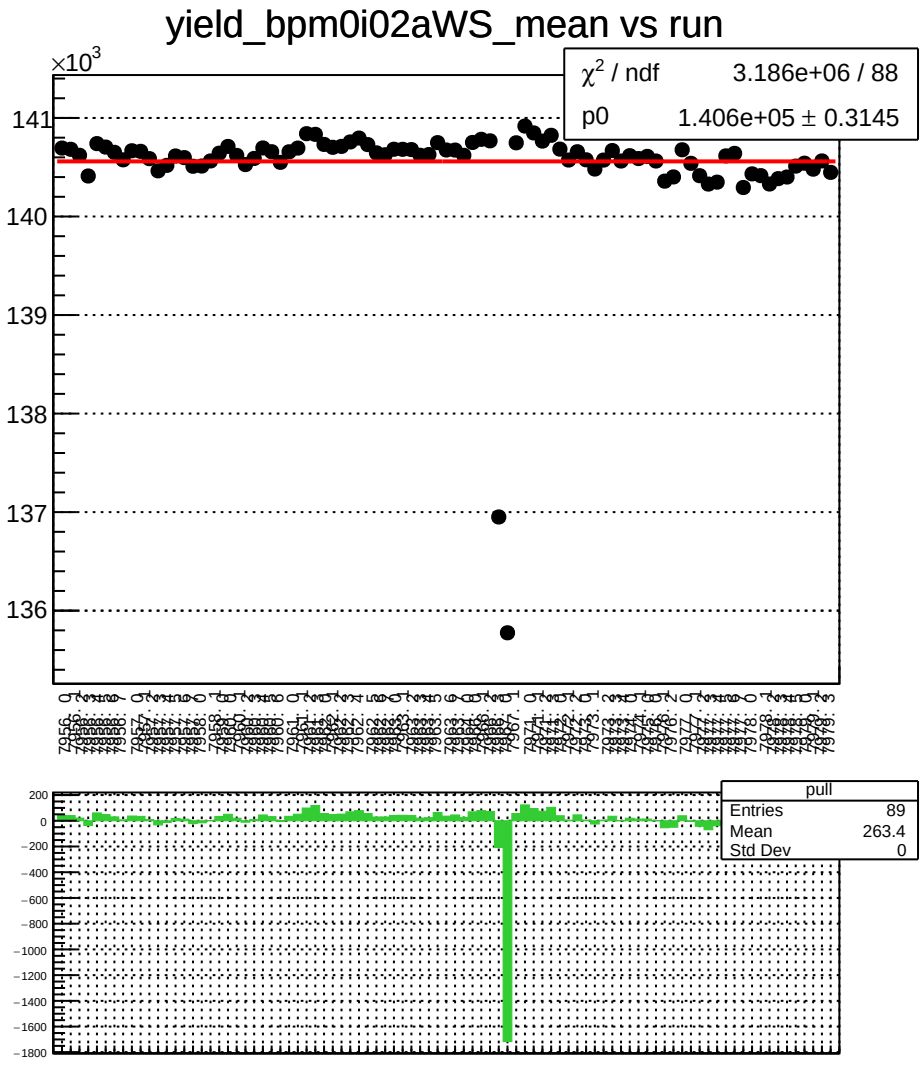

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

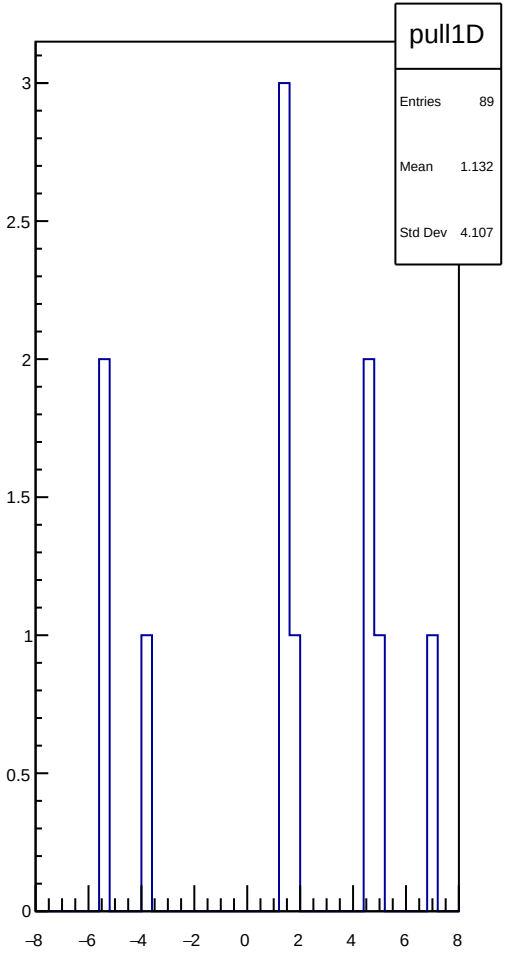

yield_bpm0r05WS_rms vs run
χ² / ndf 3.976e+04 / 88
p0 280.7 ± 0.2121
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

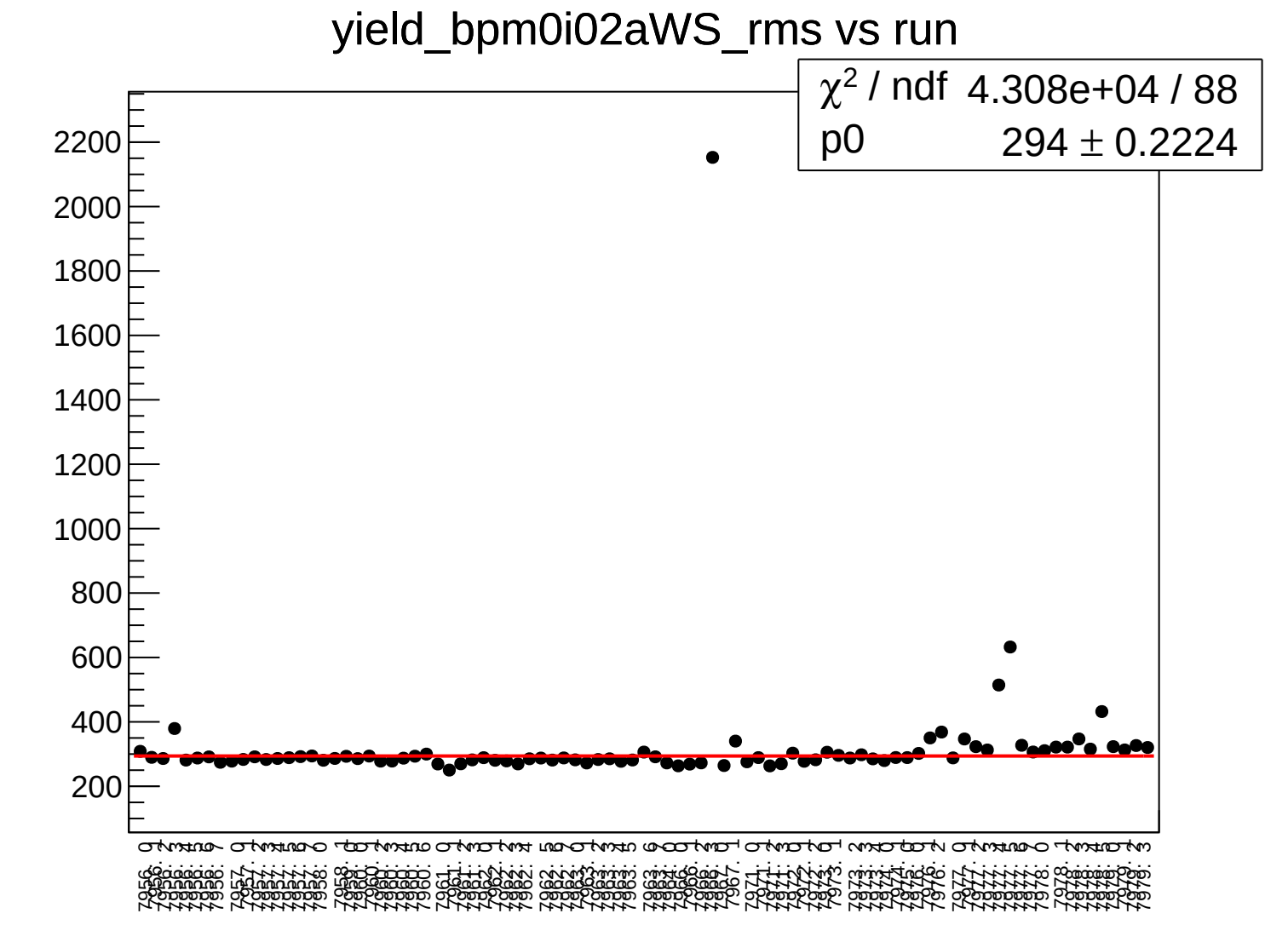

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 2.616e+06 / 88
p0 1.38e+05 ± 0.2923
138
137
136
135
134
pull
Entries 89
Mean 296.6
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

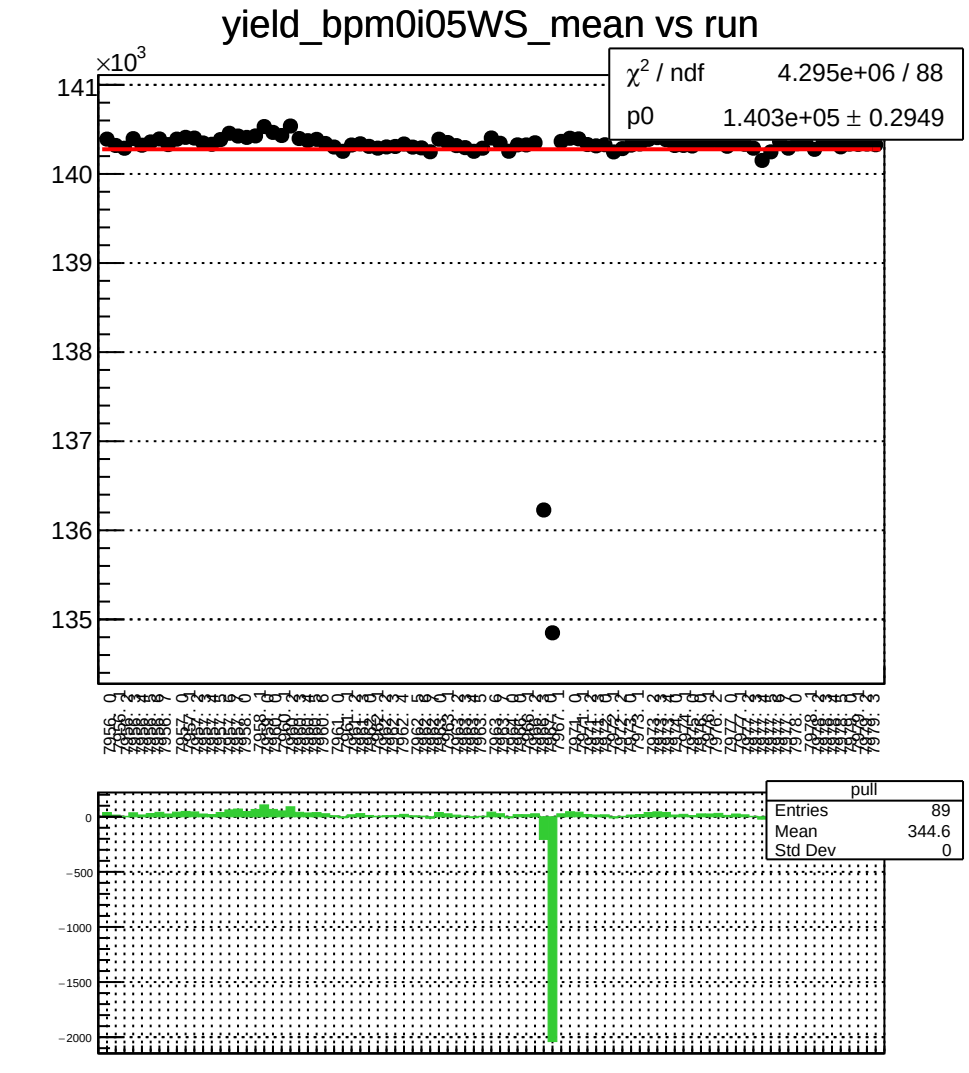

pull1D
Entries 89
Mean 0.893
Std Dev 4.485
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

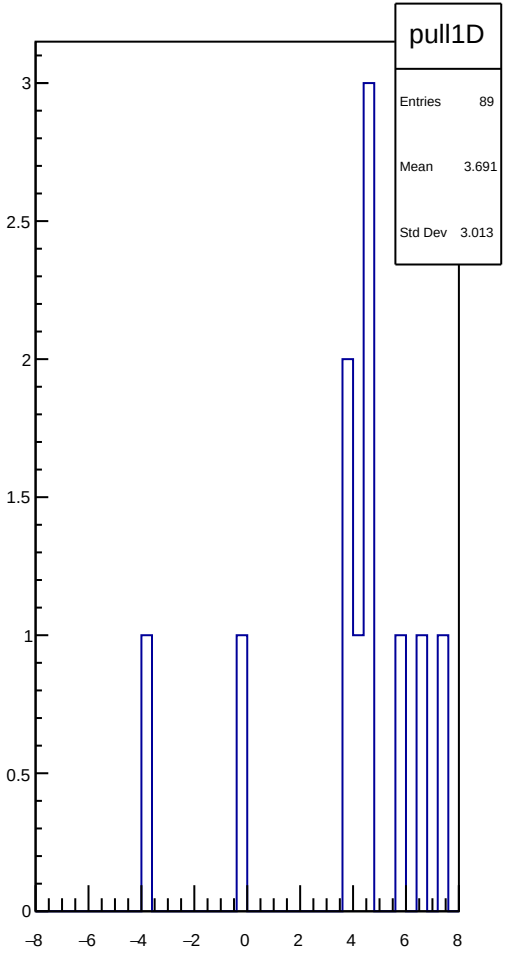

yield_bpm0i02WS_rms vs run
χ² / ndf 3.657e+04 / 88
p0 273.7 ± 0.2067
2000
1800
1600
1400
1200
1000
800
600
400
200

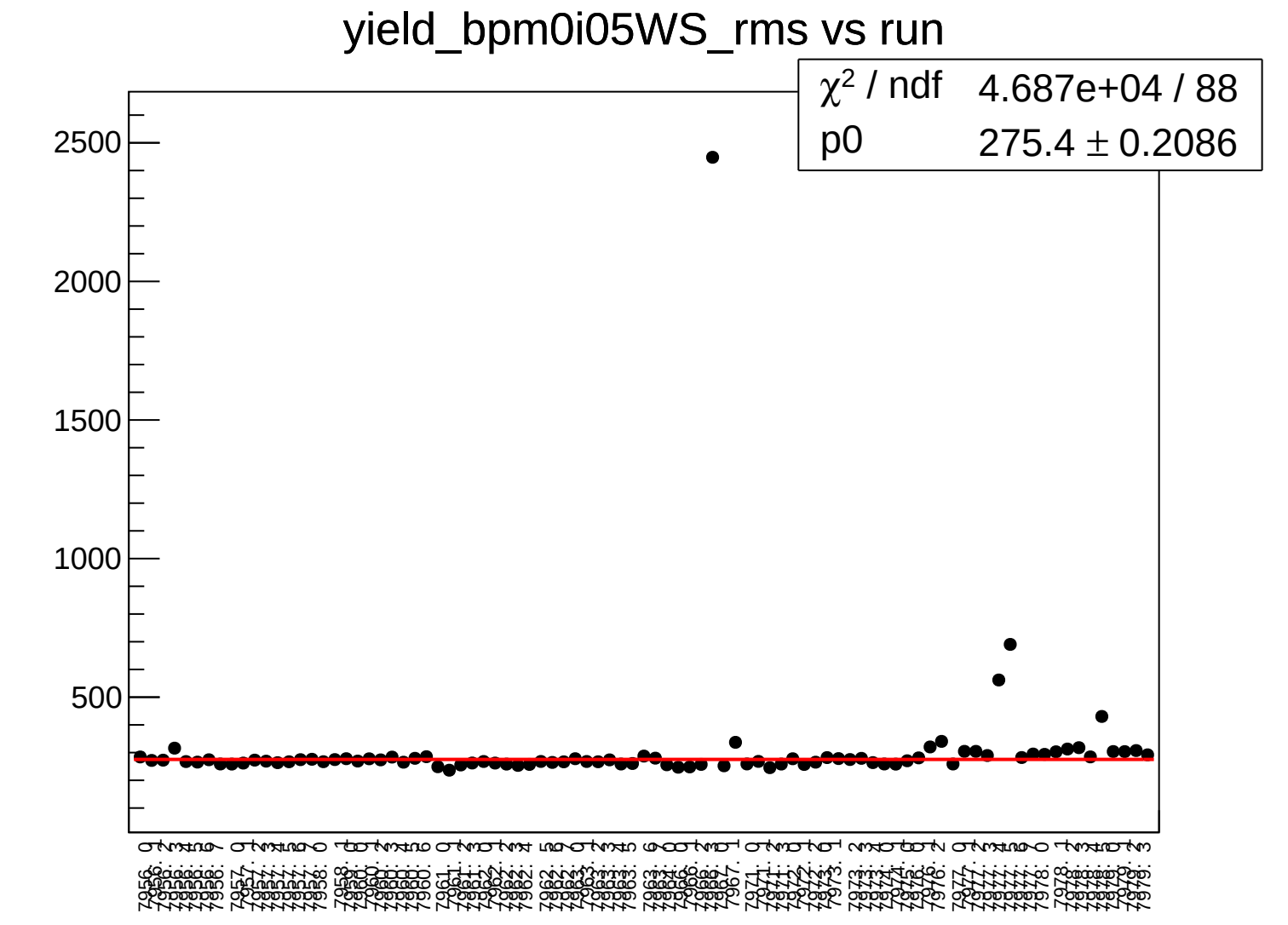

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 3.186e+06 / 88
p0 1.406e+05 ± 0.3145
141
140
139
138
137
136
pull
Entries 89
Mean 263.4
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800

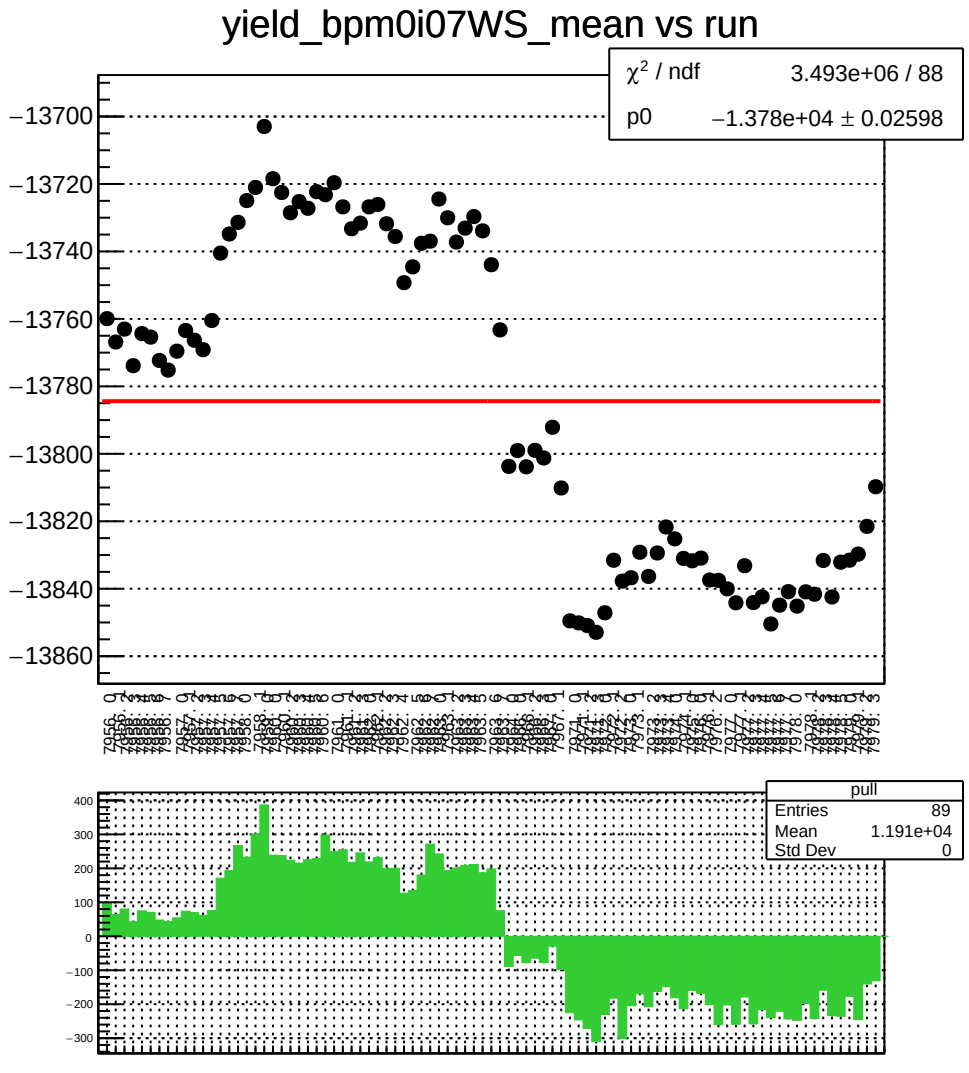

pull1D
Entries 89
Mean 1.132
Std Dev 4.107
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

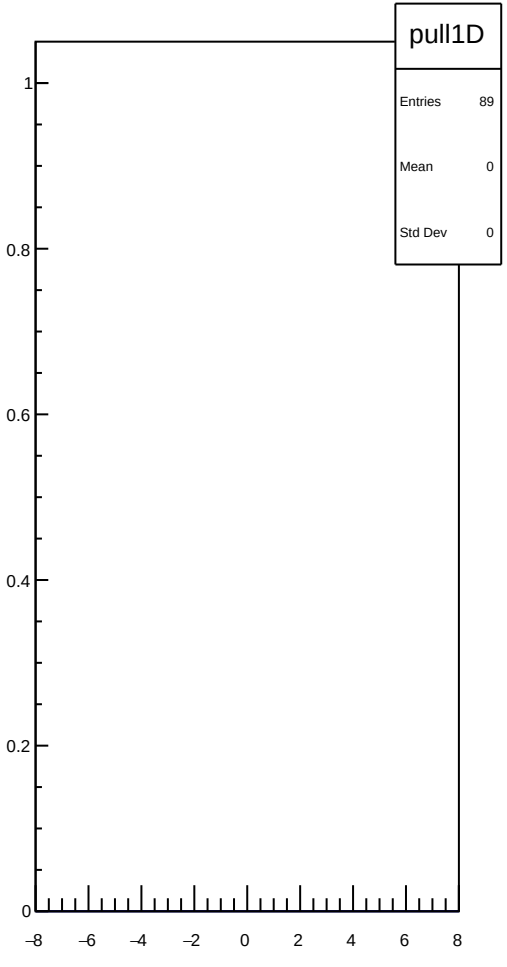

yield_bpm0i02aWS_rms vs run
χ² / ndf 4.308e+04 / 88
p0 294 ± 0.2224
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

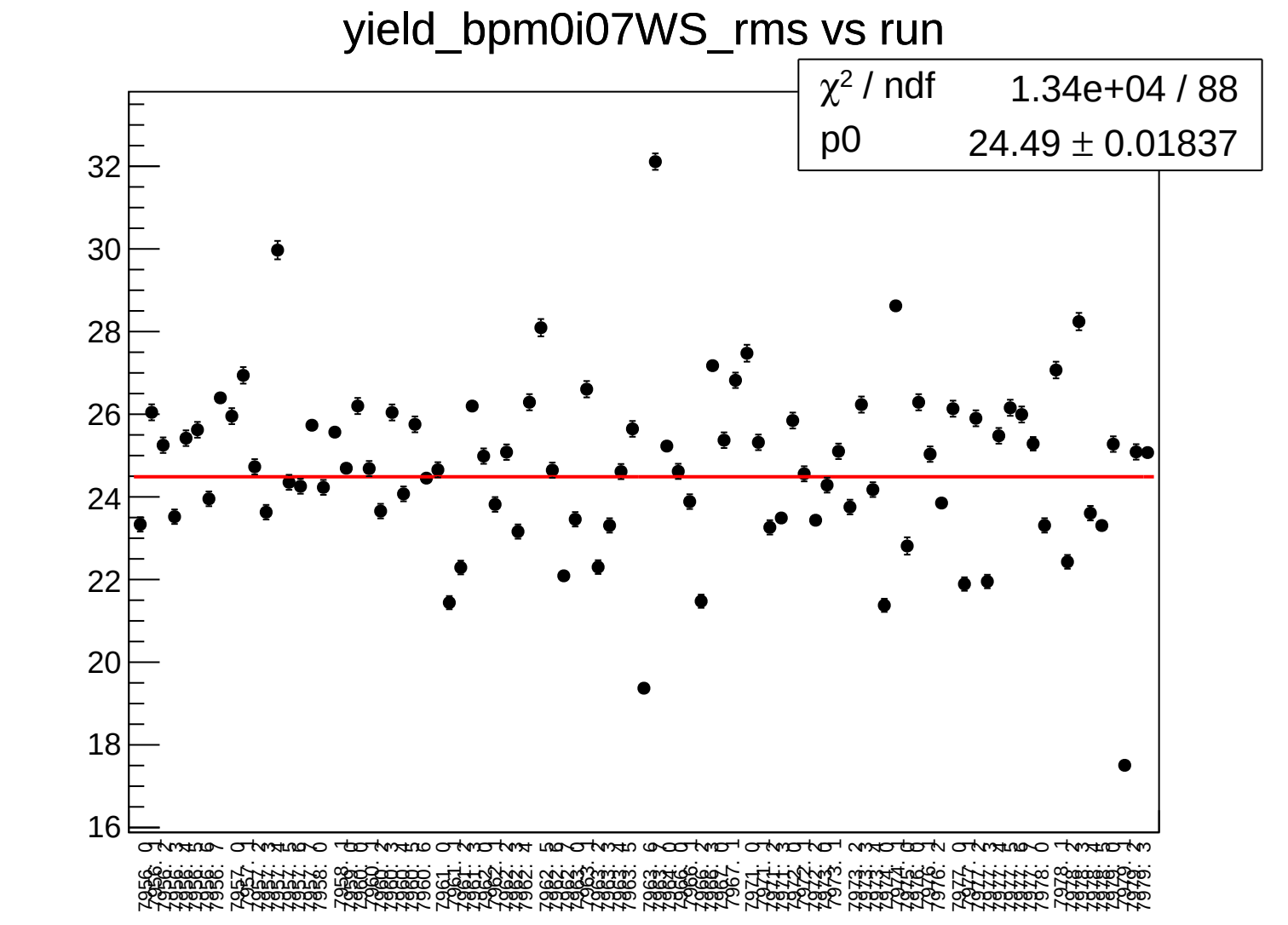

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 4.295e+06 / 88
p0 1.403e+05 ± 0.2949
141
140
139
138
137
136
135
pull
Entries 89
Mean 344.6
Std Dev 0
0
−500
−1000
−1500
−2000

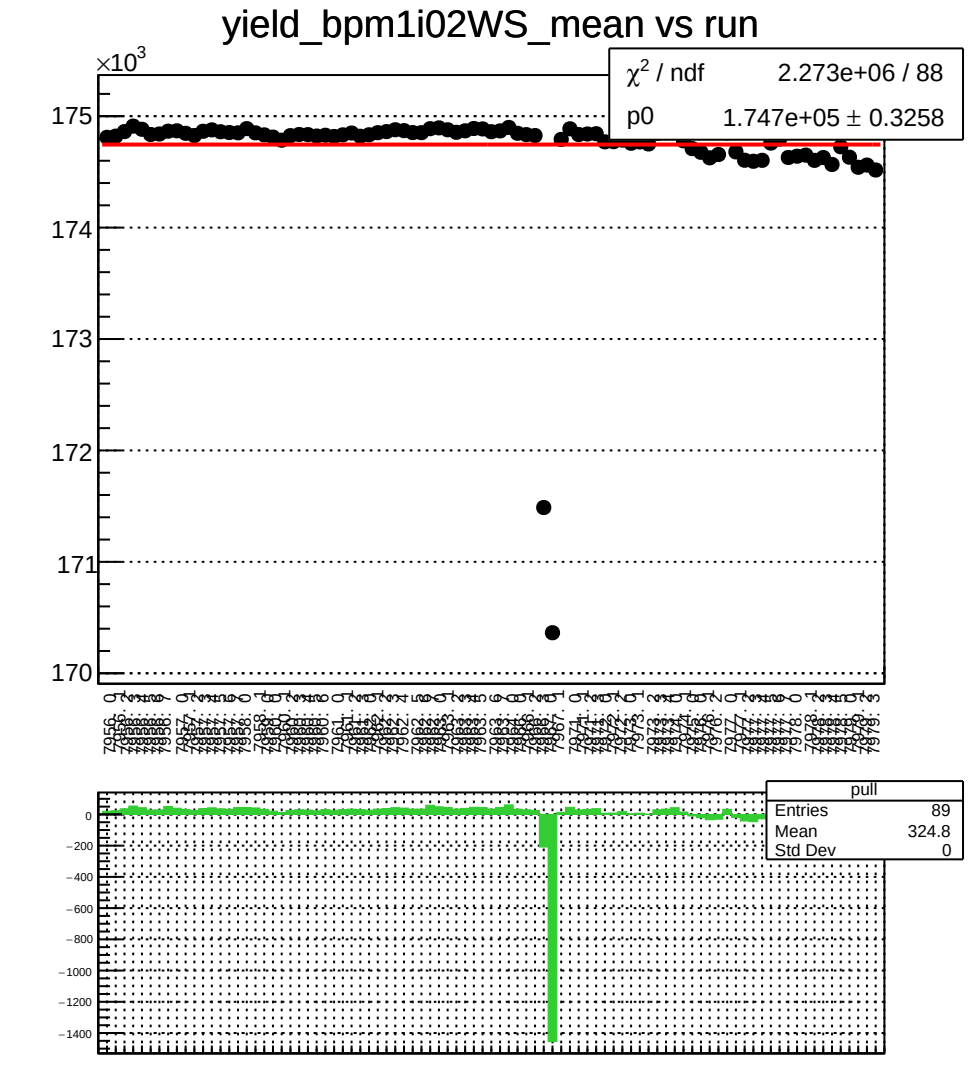

pull1D
Entries 89
Mean 3.691
Std Dev 3.013
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

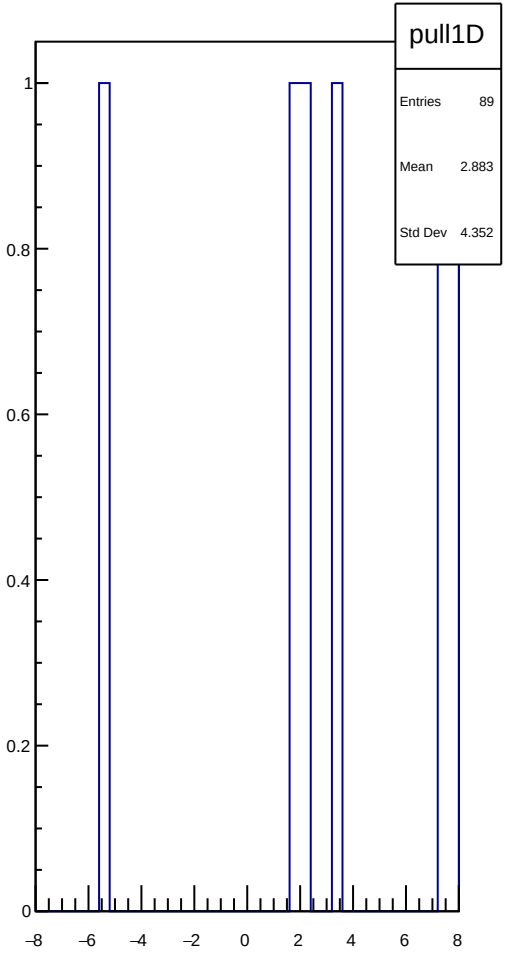

yield_bpm0i05WS_rms vs run
χ² / ndf 4.687e+04 / 88
p0 275.4 ± 0.2086
2500
2000
1500
1000
500

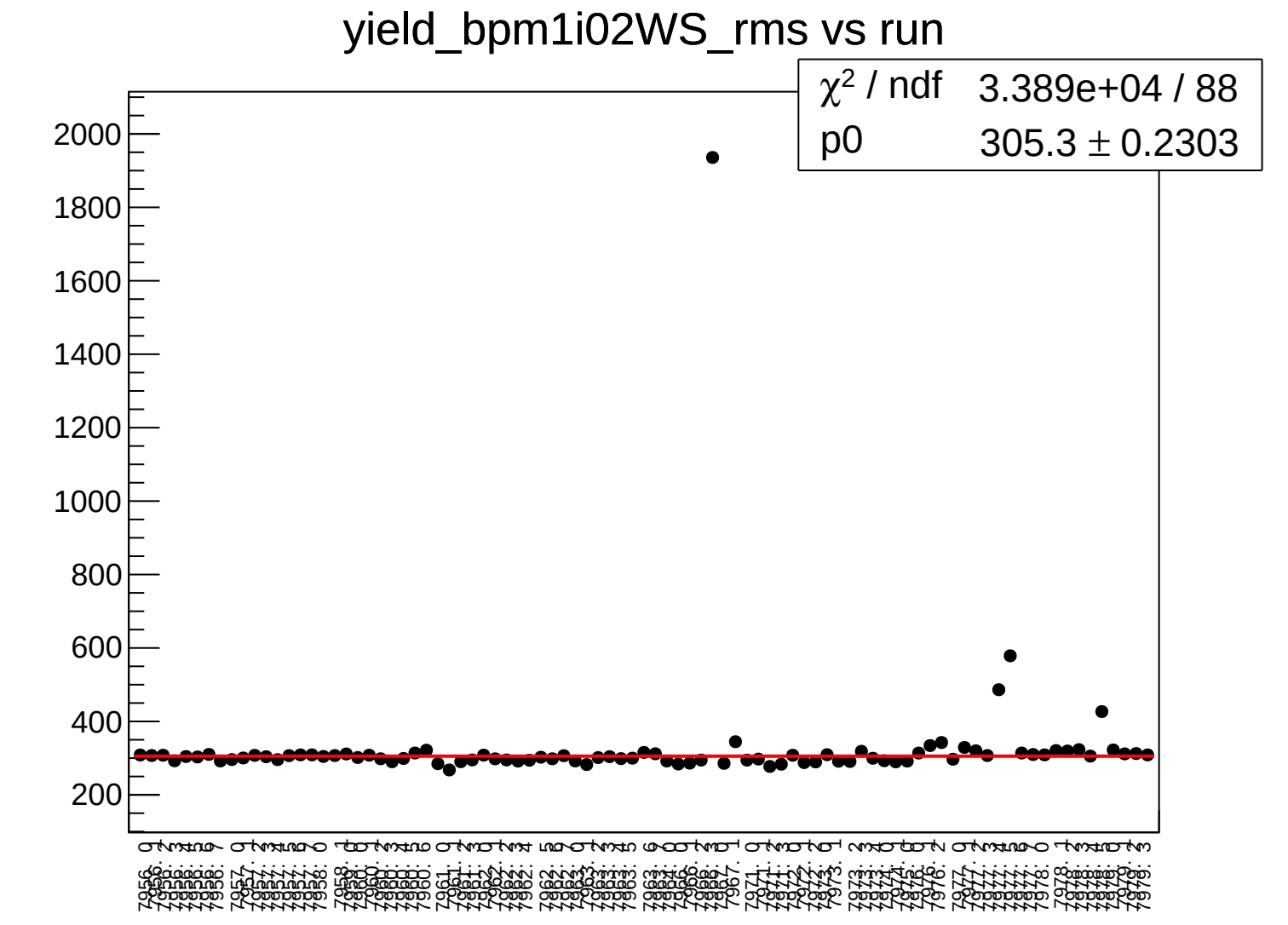

yield_bpm0i07WS_mean vs run
χ² / ndf 3.493e+06 / 88
p0 −1.378e+04 ± 0.02598
−13700
−13720
−13740
−13760
−13780
−13800
−13820
−13840
−13860
pull
Entries 89
Mean 1.191e+04
Std Dev 0
400
300
200
100
0
−100
−200
−300

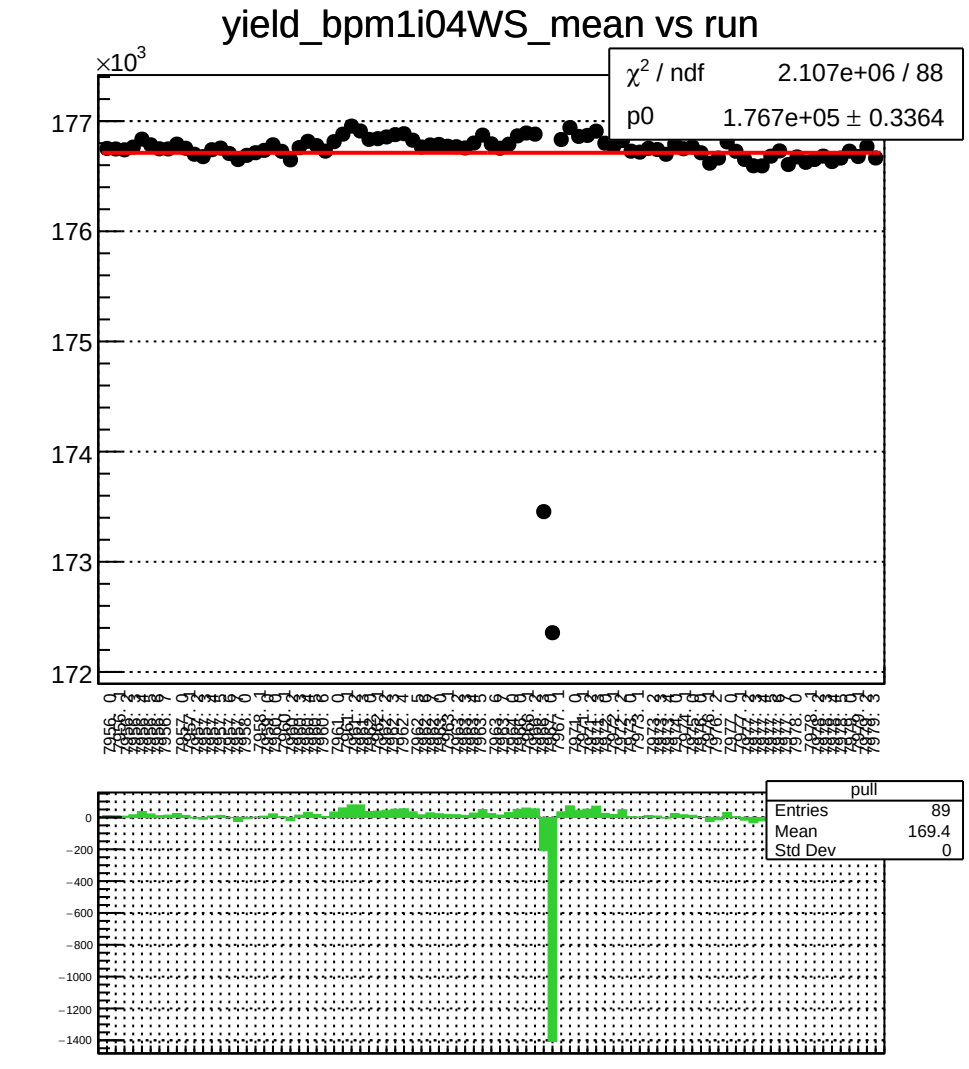

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

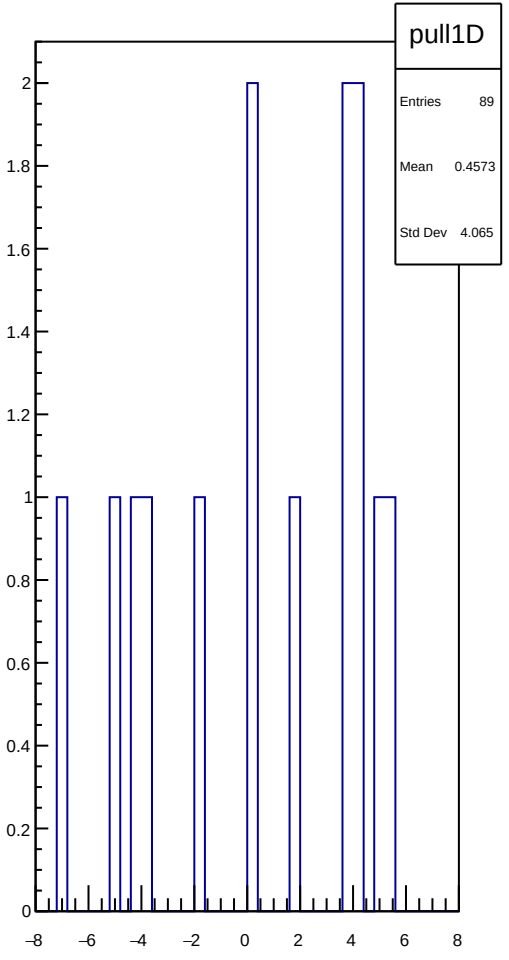

yield_bpm0i07WS_rms vs run
χ² / ndf 1.34e+04 / 88
p0 24.49 ± 0.01837
32
30
28
26
24
22
20
18
16

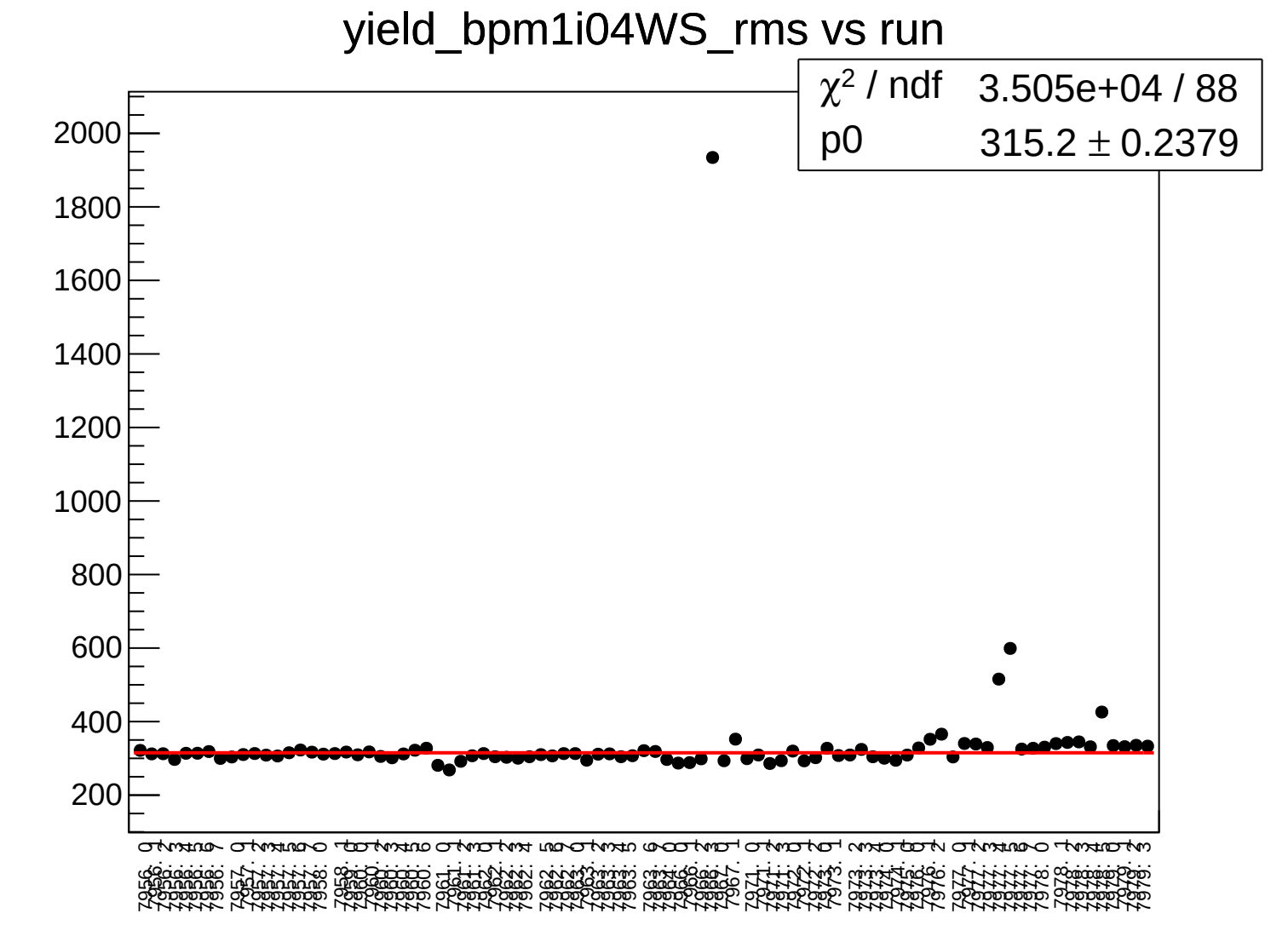

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.273e+06 / 88
p0 1.747e+05 ± 0.3258
175
174
173
172
171
170
pull
Entries 89
Mean 324.8
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400

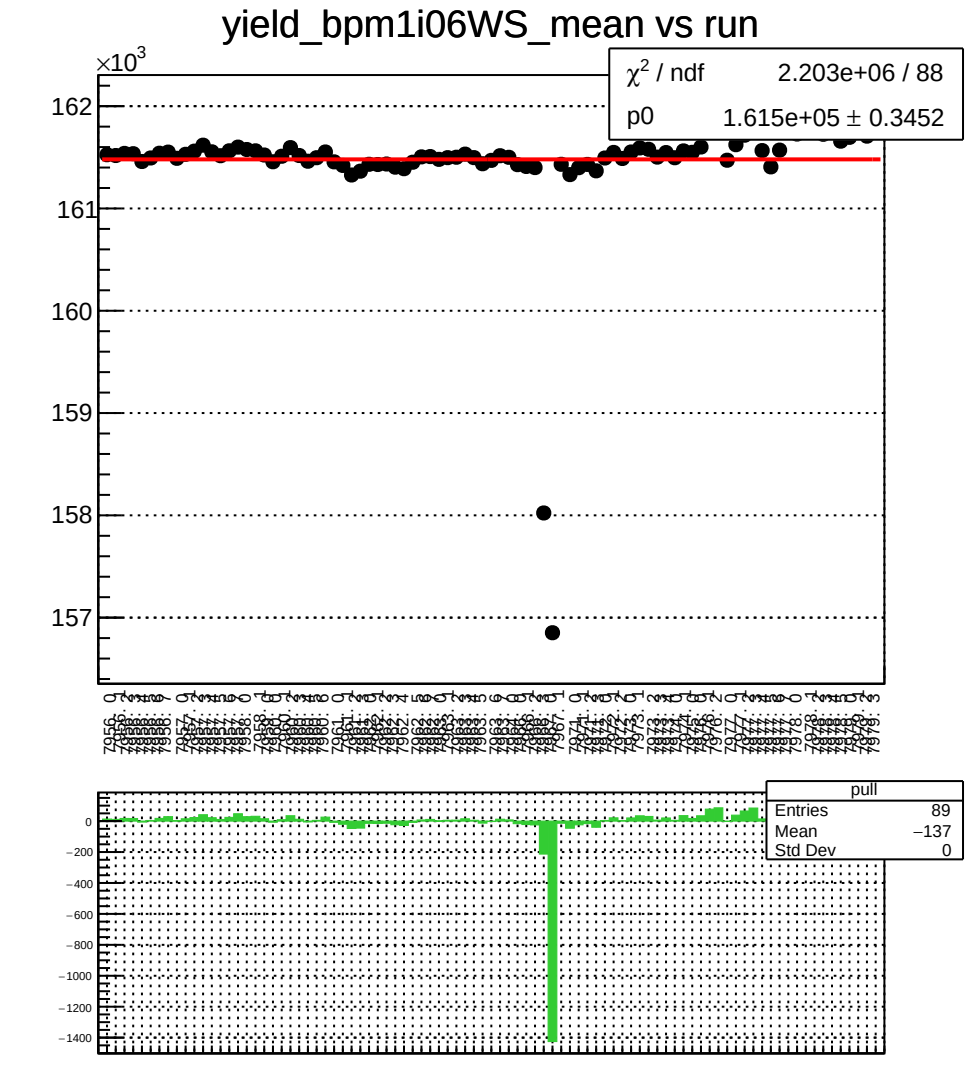

pull1D
Entries 89
Mean 2.883
Std Dev 4.352
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

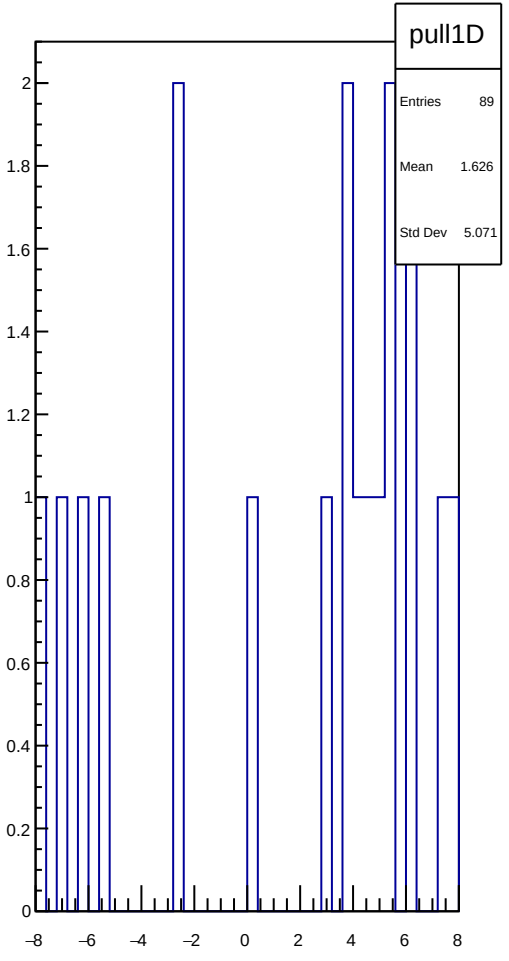

yield_bpm1i02WS_rms vs run
χ² / ndf 3.389e+04 / 88
p0 305.3 ± 0.2303
2000
1800
1600
1400
1200
1000
800
600
400
200

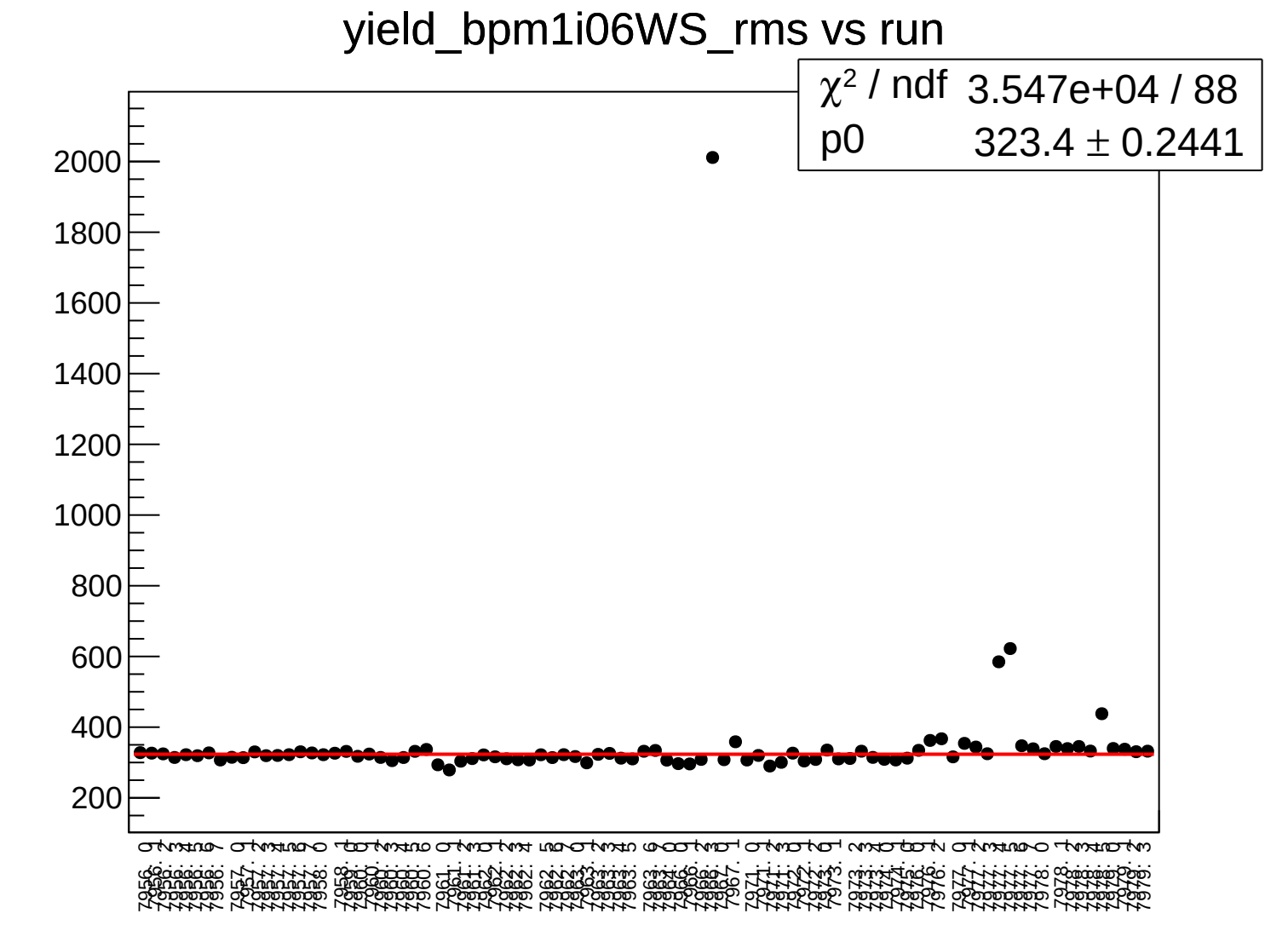

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 2.107e+06 / 88
p0 1.767e+05 ± 0.3364
177
176
175
174
173
172
pull
Entries 89
Mean 169.4
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400

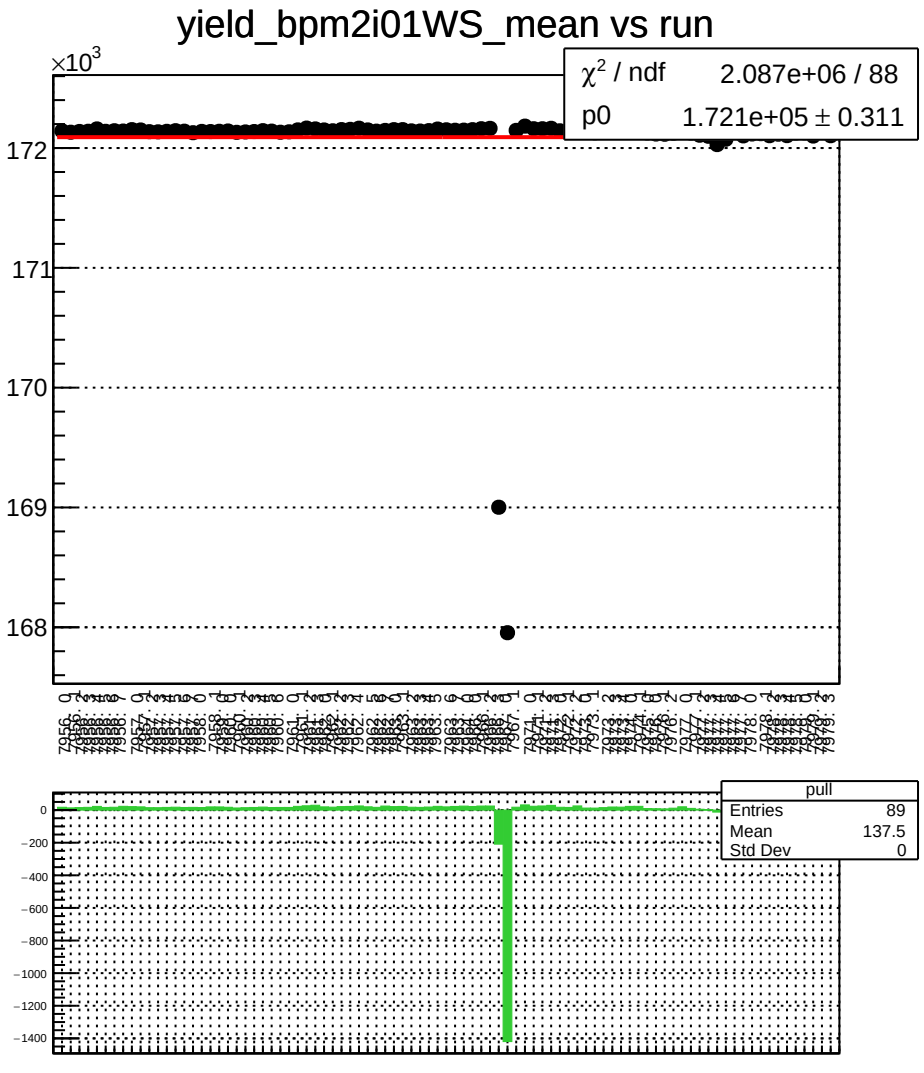

pull1D
Entries 89
Mean 0.4573
Std Dev 4.065
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

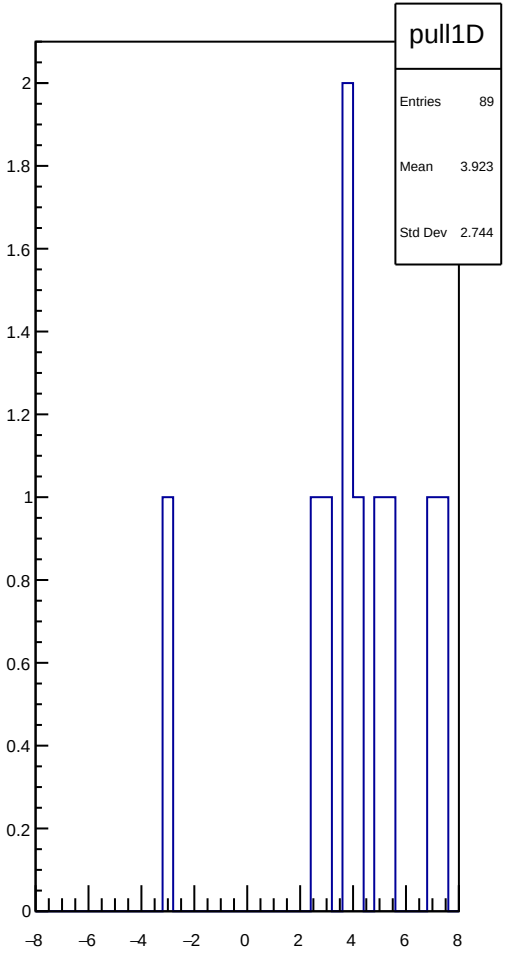

yield_bpm1i04WS_rms vs run
χ² / ndf 3.505e+04 / 88
p0 315.2 ± 0.2379
2000
1800
1600
1400
1200
1000
800
600
400
200

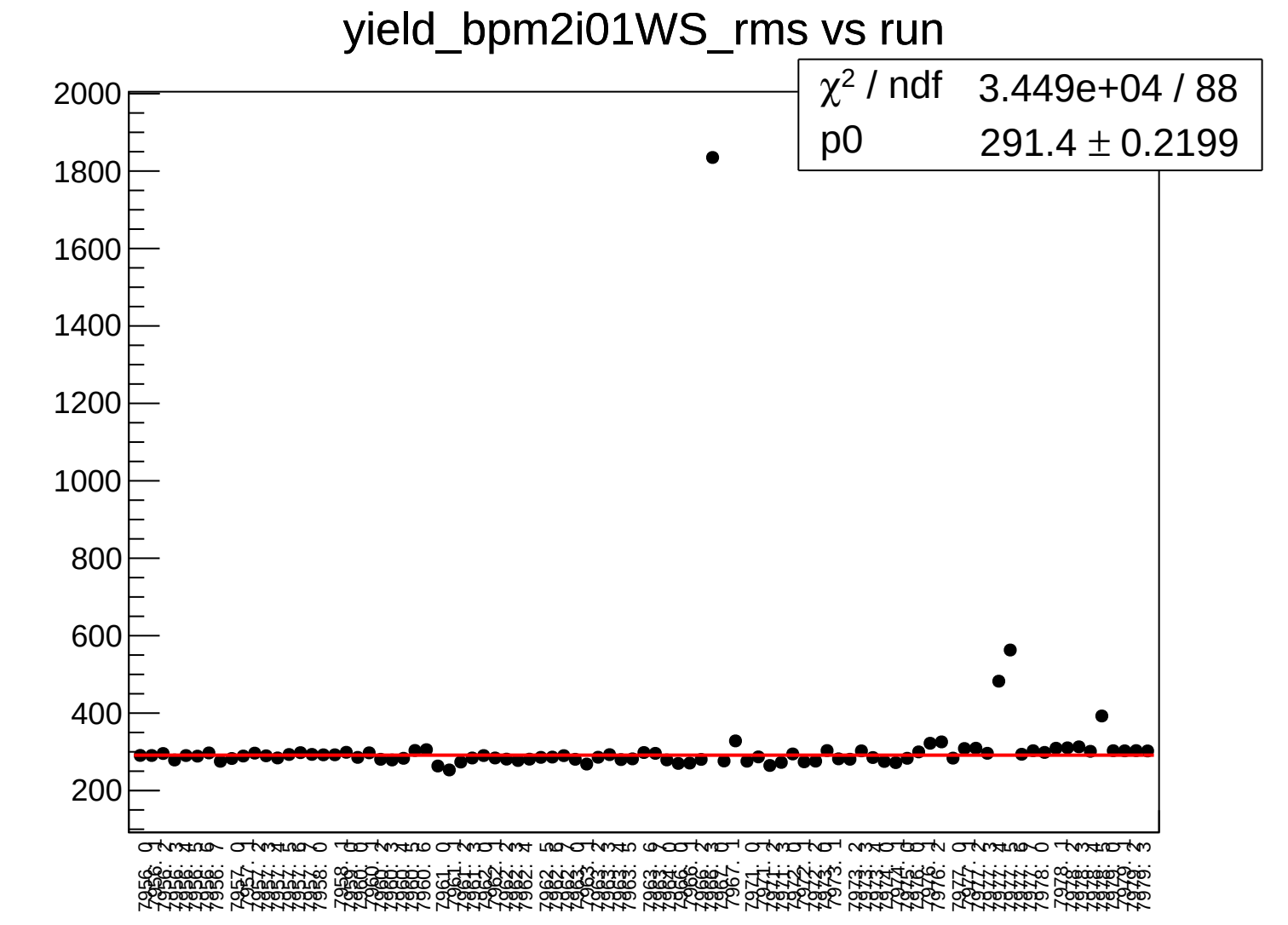

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 2.203e+06 / 88
p0 1.615e+05 ± 0.3452
162
161
160
159
158
157
pull
Entries 89
Mean −137
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400

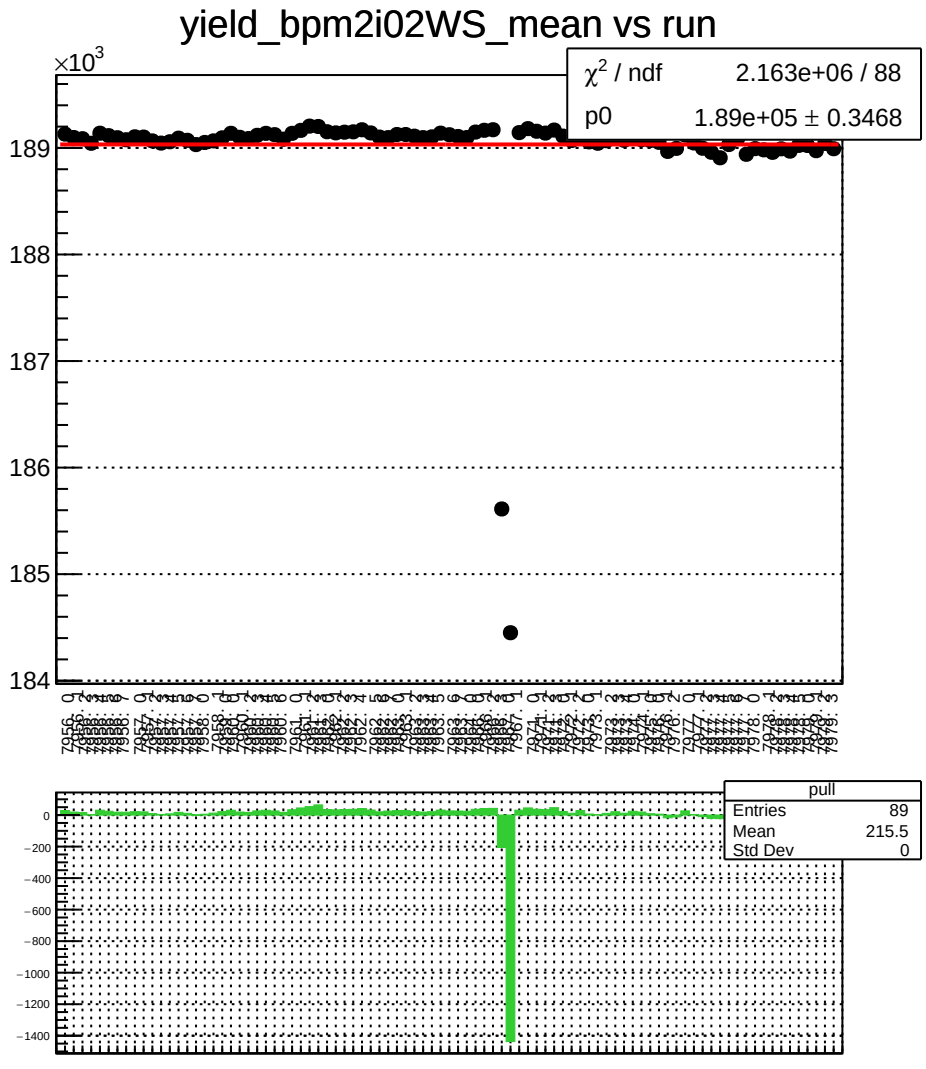

pull1D
Entries 89
Mean 1.626
Std Dev 5.071
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

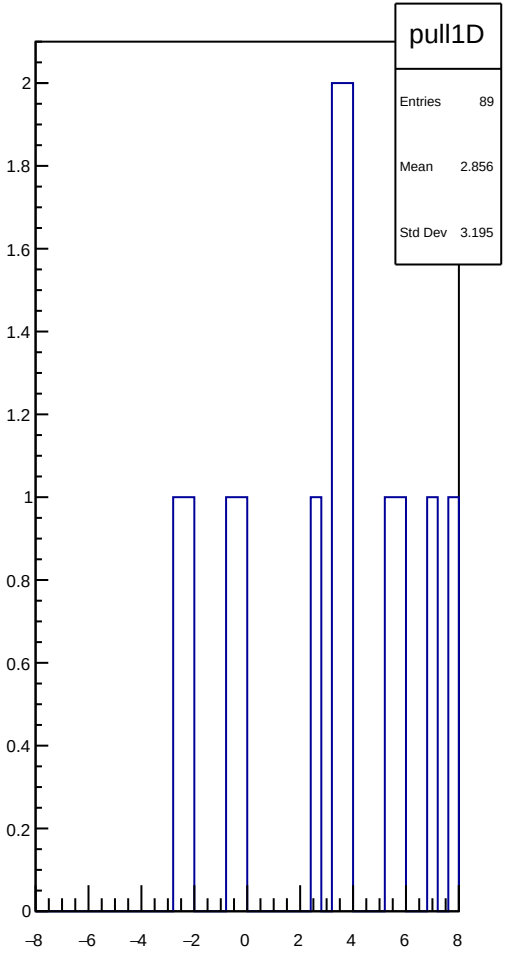

yield_bpm1i06WS_rms vs run
χ² / ndf 3.547e+04 / 88
p0 323.4 ± 0.2441
2000
1800
1600
1400
1200
1000
800
600
400
200

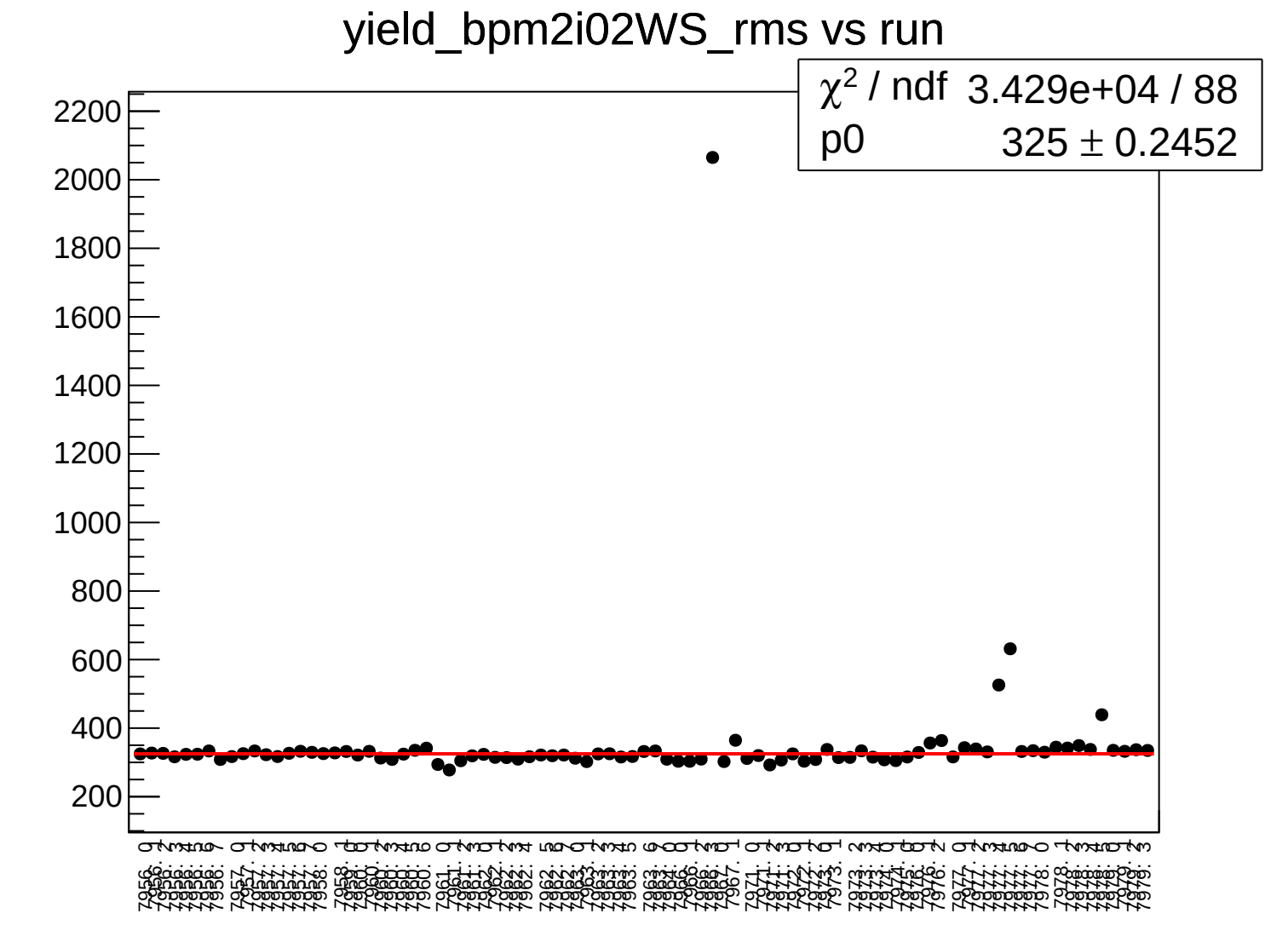

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.087e+06 / 88
p0 1.721e+05 ± 0.311
172
171
170
169
168
pull
Entries 89
Mean 137.5
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400

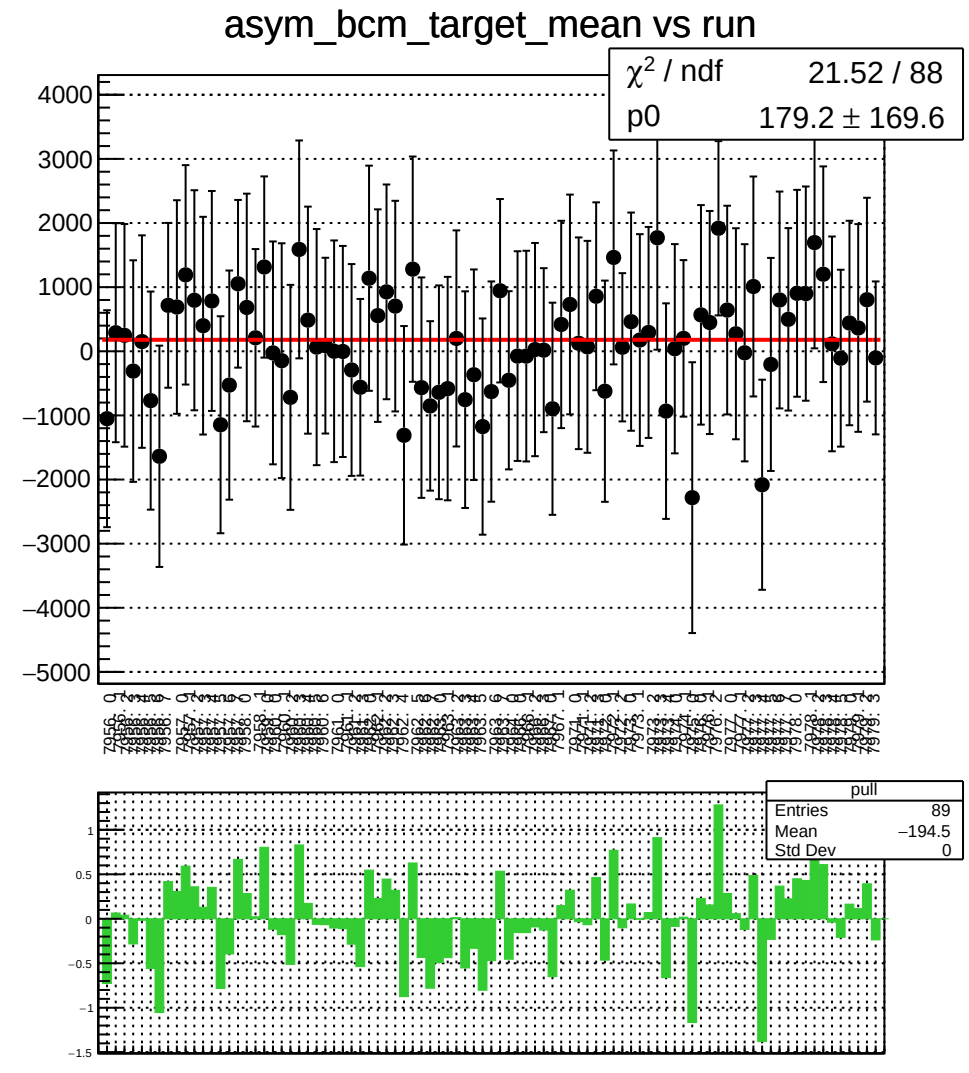

pull1D
Entries 89
Mean 3.923
Std Dev 2.744
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

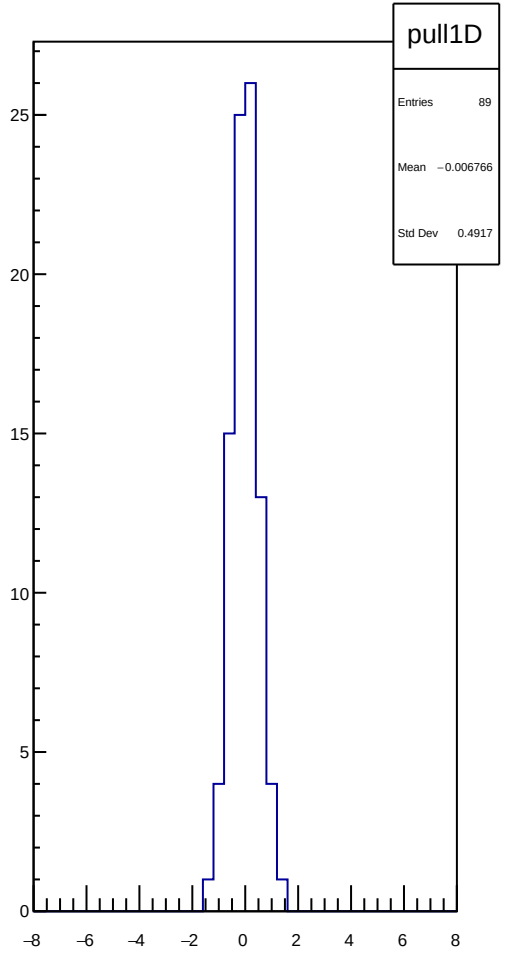

yield_bpm2i01WS_rms vs run
χ² / ndf 3.449e+04 / 88
p0 291.4 ± 0.2199
2000
1800
1600
1400
1200
1000
800
600
400
200

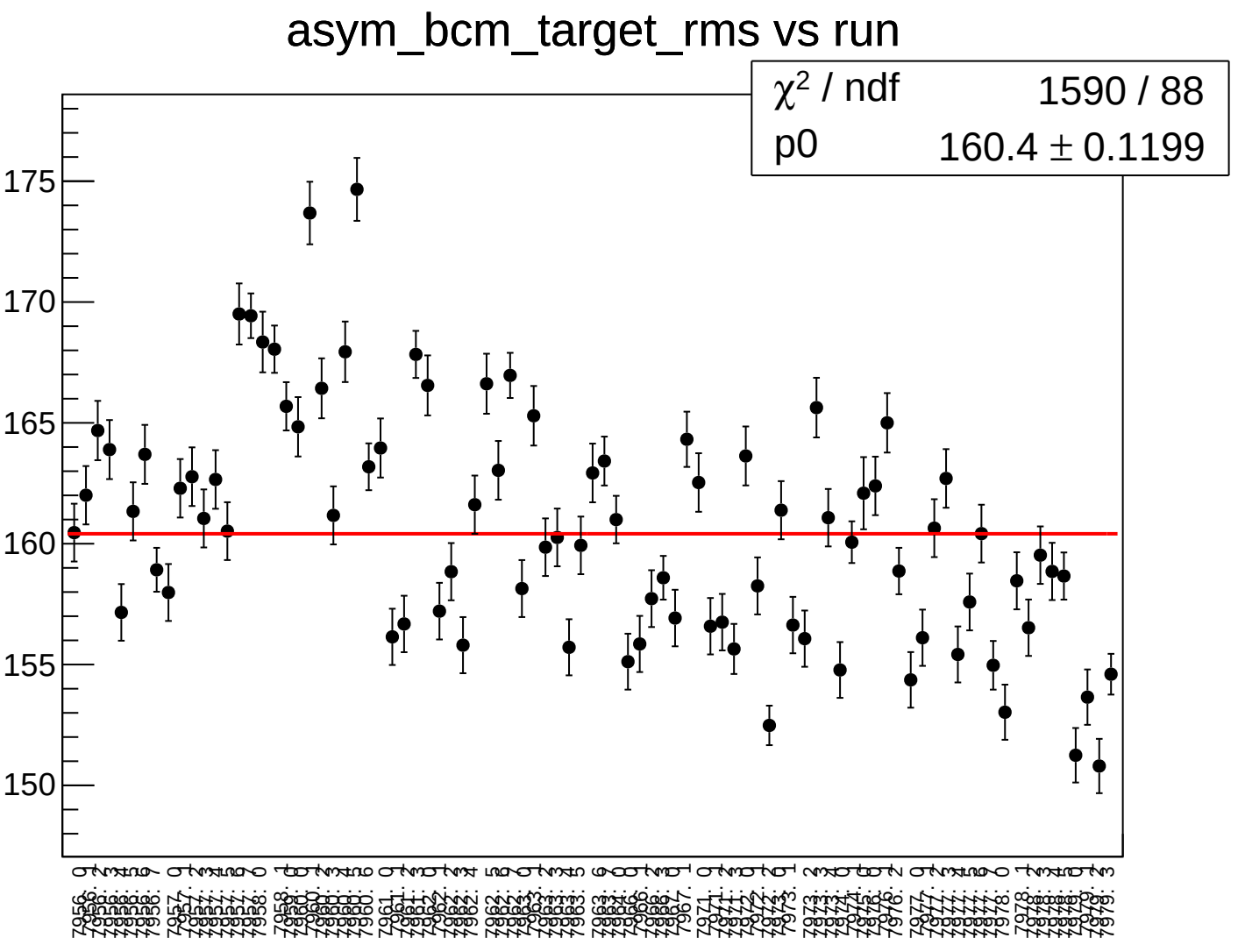

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.163e+06 / 88
p0 1.89e+05 ± 0.3468
189
188
187
186
185
184
pull
Entries 89
Mean 215.5
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400

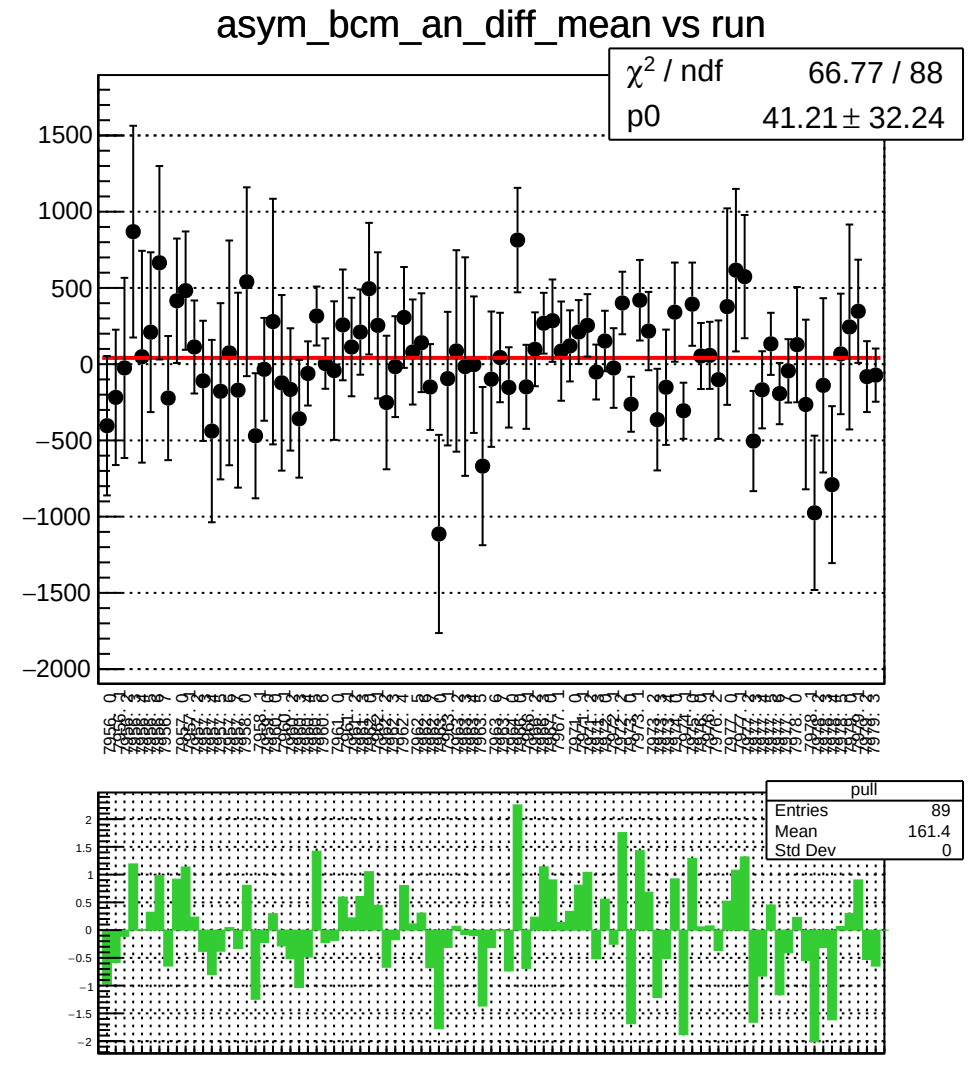

pull1D
Entries 89
Mean 2.856
Std Dev 3.195
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

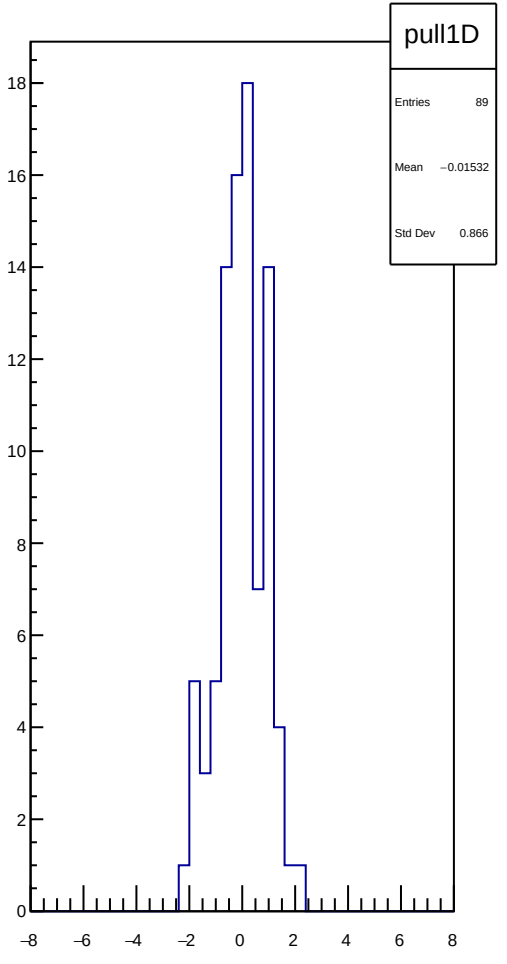

yield_bpm2i02WS_rms vs run
$\chi^2$ / ndf 3.429e+04 / 88
p0 325 ± 0.2452
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

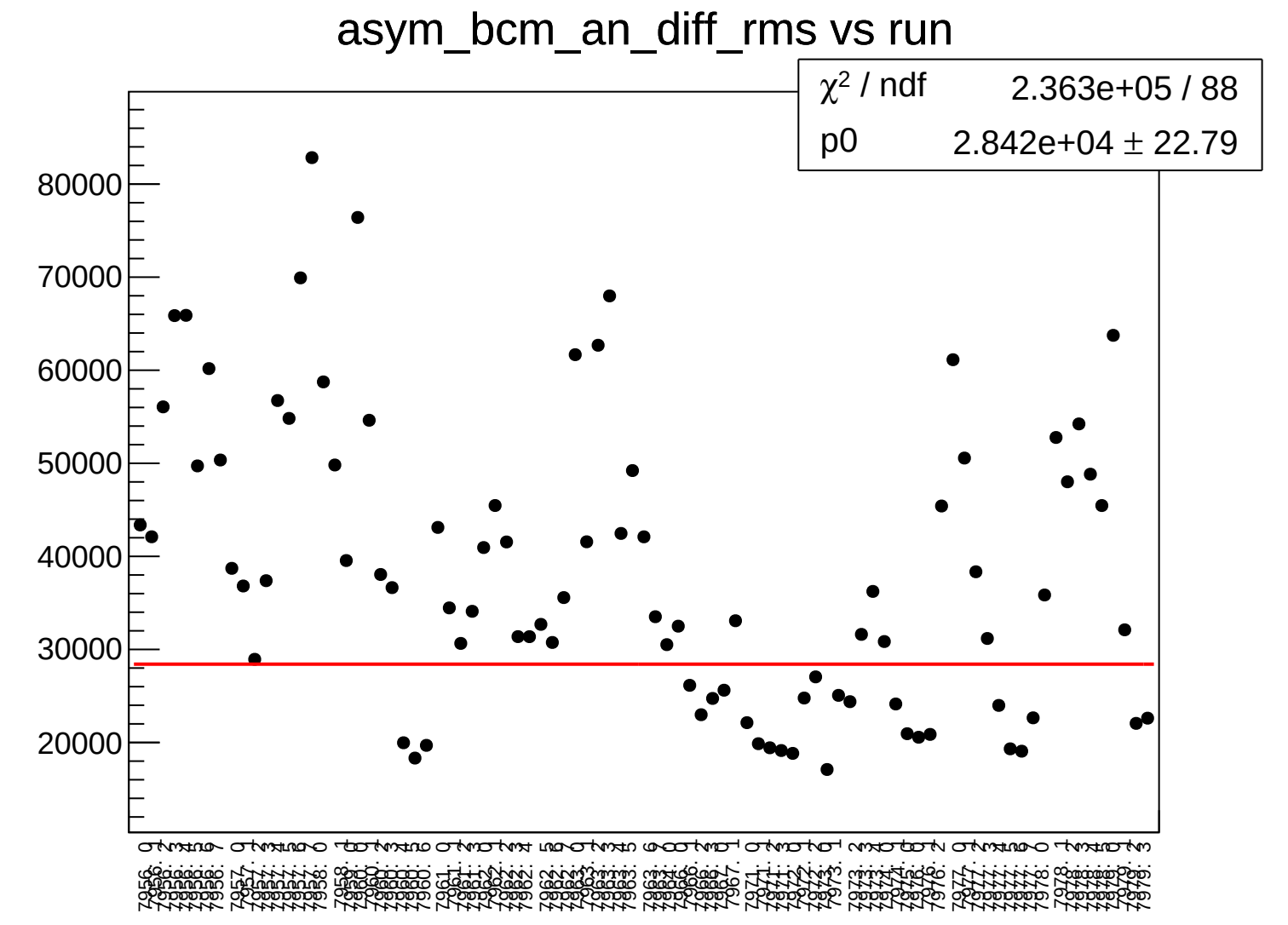

asym_bcm_target_mean vs run
χ² / ndf 21.52 / 88
p0 179.2 ± 169.6
pull
Entries 89
Mean −194.5
Std Dev 0

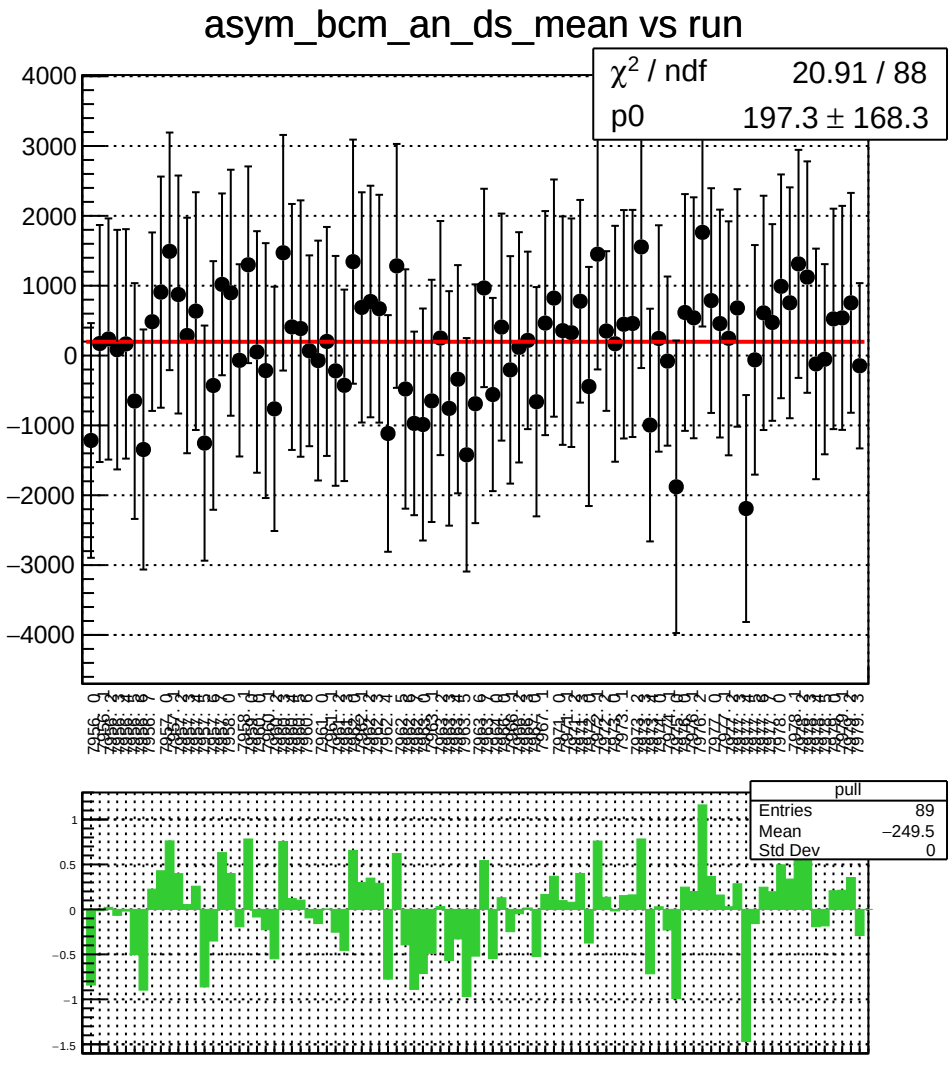

pull1D
Entries 89
Mean −0.006766
Std Dev 0.4917

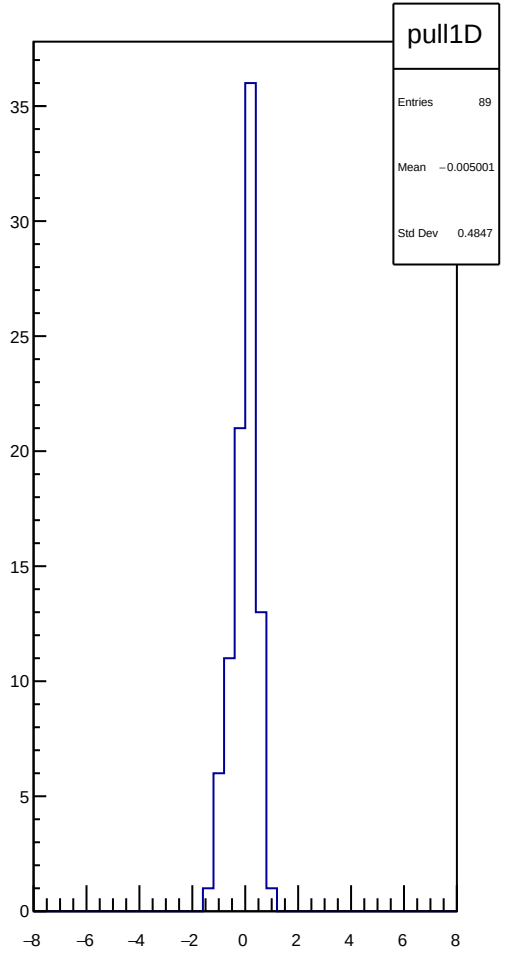

asym_bcm_target_rms vs run
$\chi^2$ / ndf 1590 / 88
p0 160.4 ± 0.1199
175
170
165
160
155
150

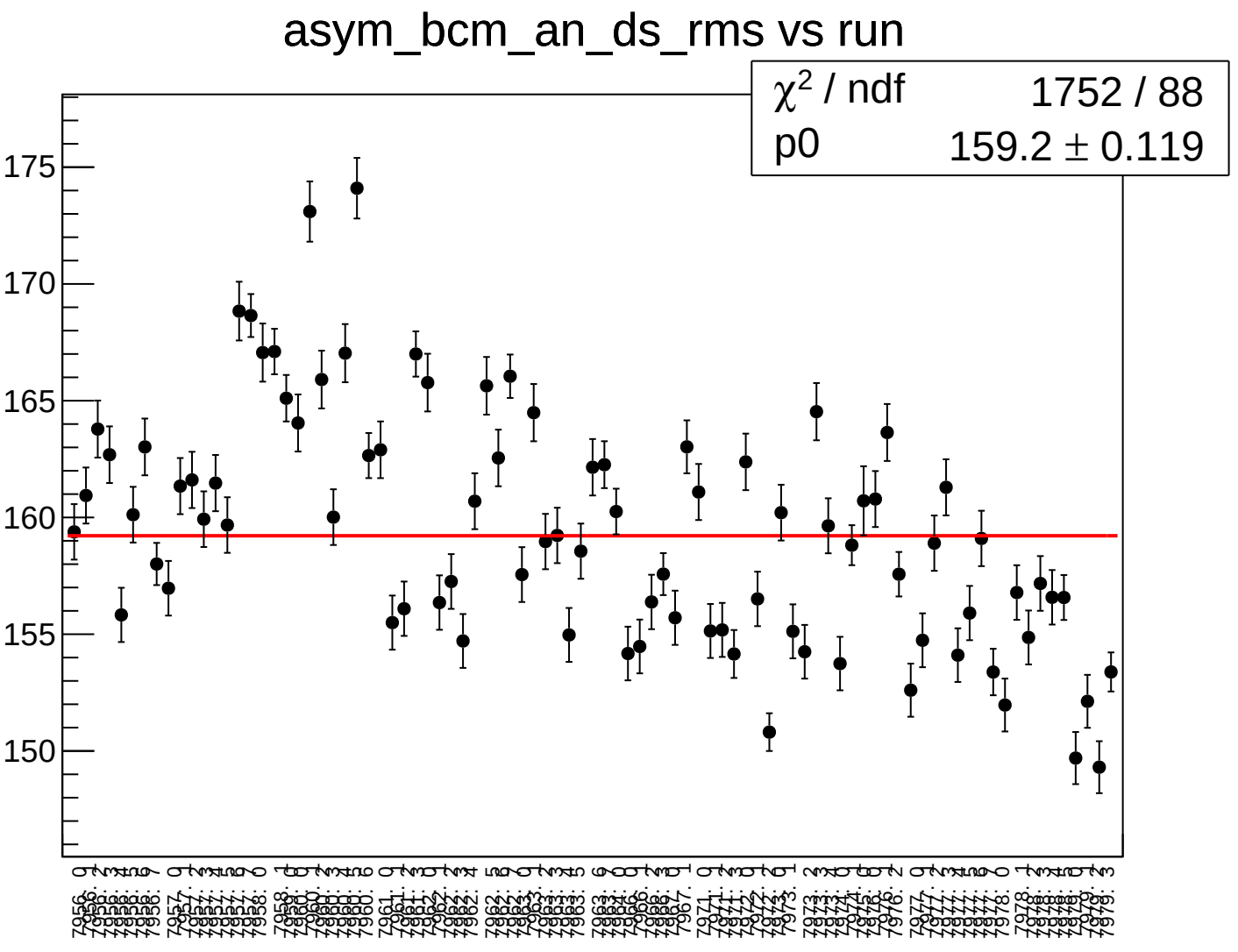

asym_bcm_an_diff_mean vs run
χ² / ndf 66.77 / 88
p0 41.21 ± 32.24
pull
Entries 89
Mean 161.4
Std Dev 0

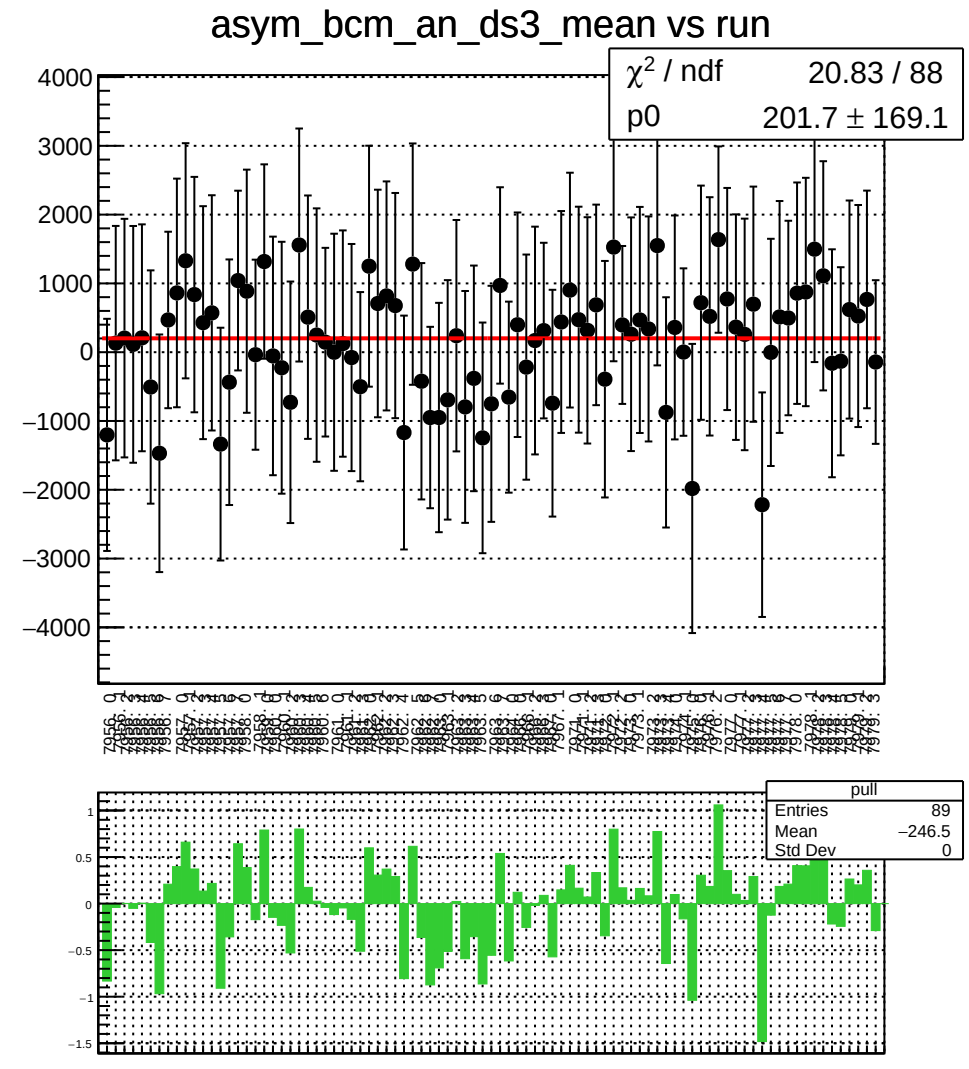

pull1D
Entries 89
Mean −0.01532
Std Dev 0.866

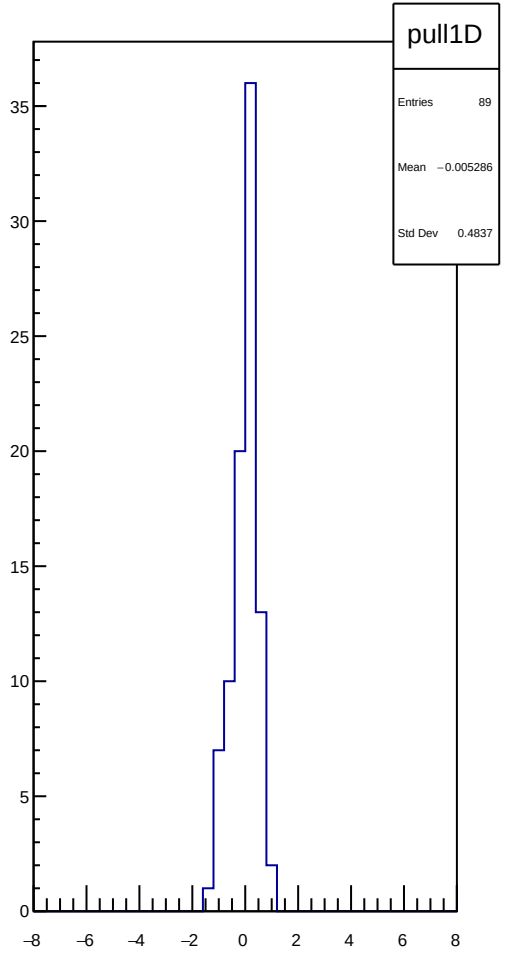

asym_bcm_an_diff_rms vs run
$\chi^2$ / ndf 2.363e+05 / 88
p0 2.842e+04 ± 22.79
80000
70000
60000
50000
40000
30000
20000

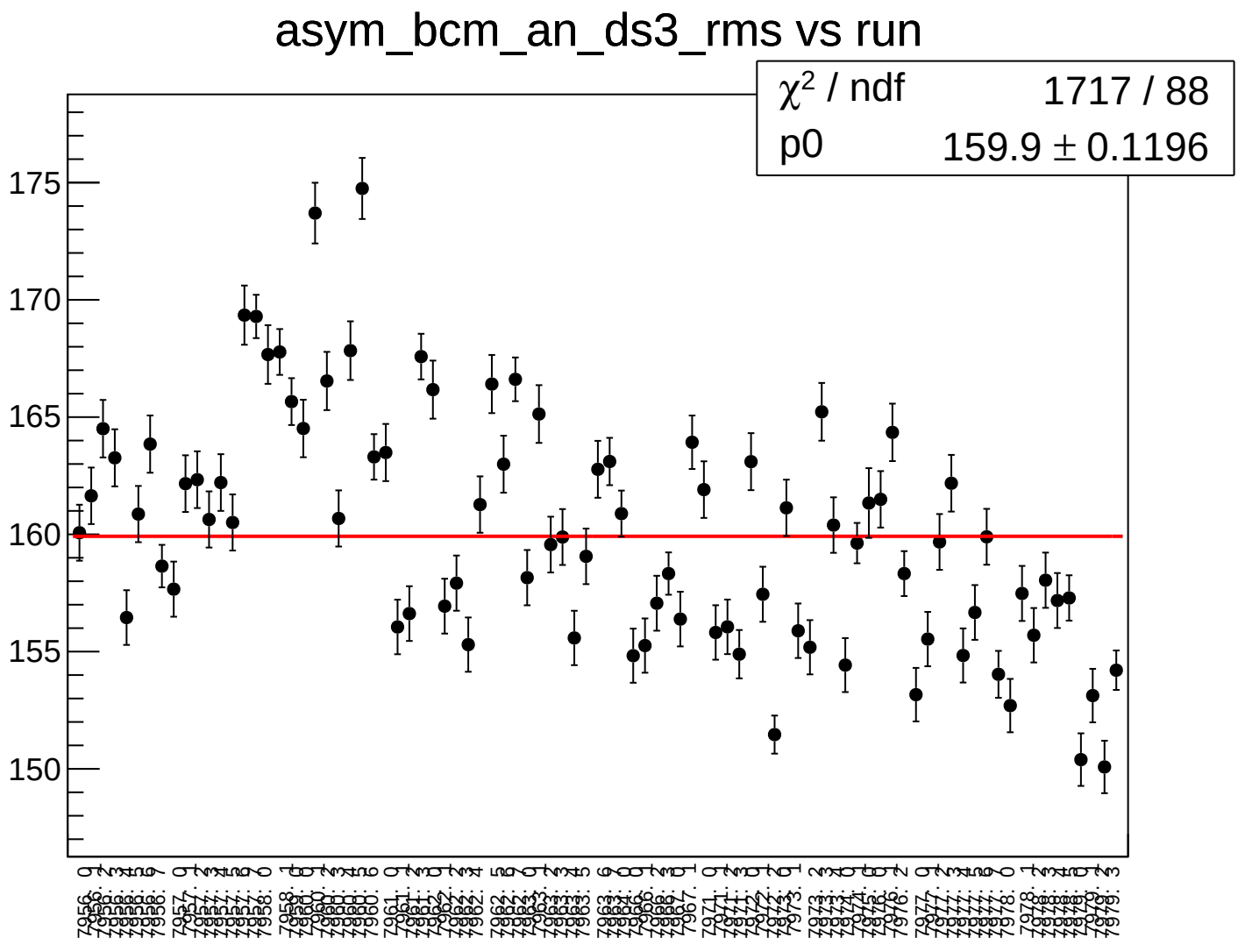

asym_bcm_an_ds_mean vs run
χ² / ndf 20.91 / 88
p0 197.3 ± 168.3
pull
Entries 89
Mean −249.5
Std Dev 0

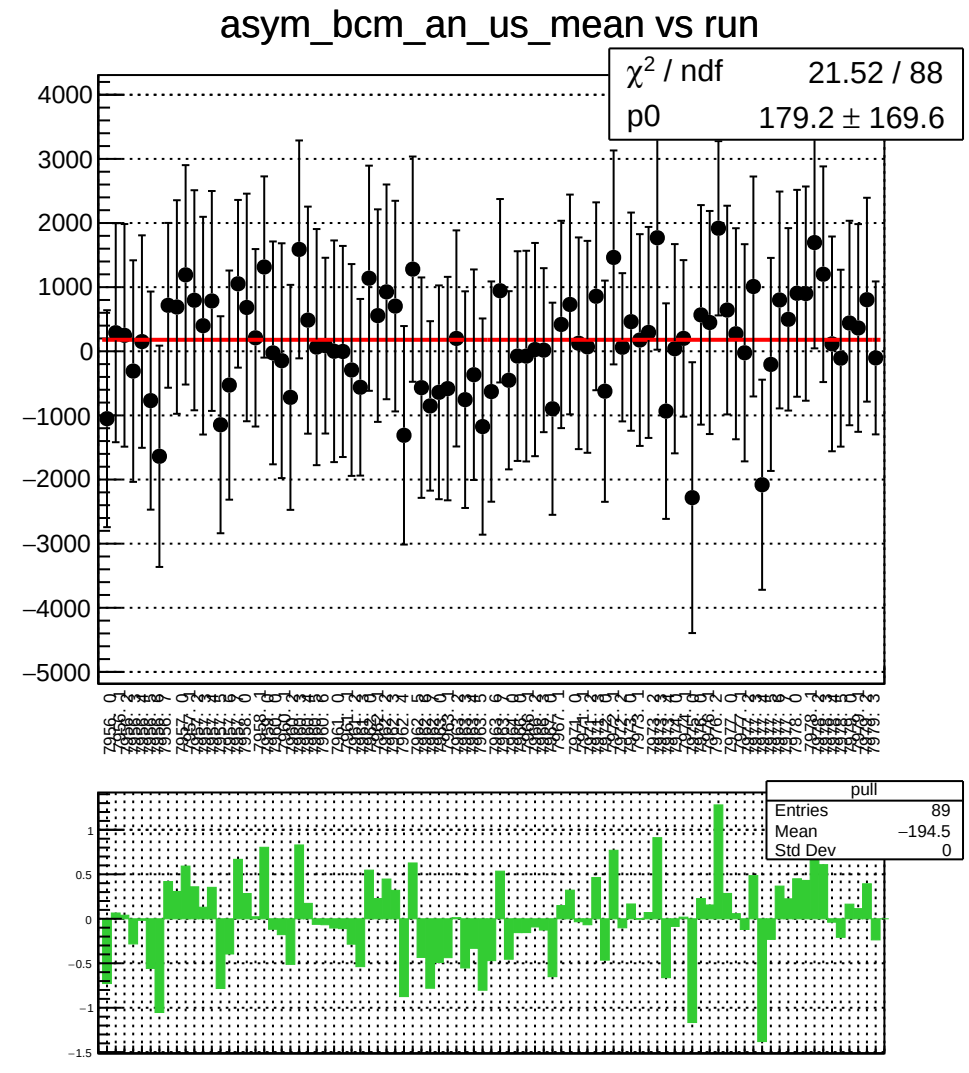

pull1D
Entries 89
Mean −0.005001
Std Dev 0.4847

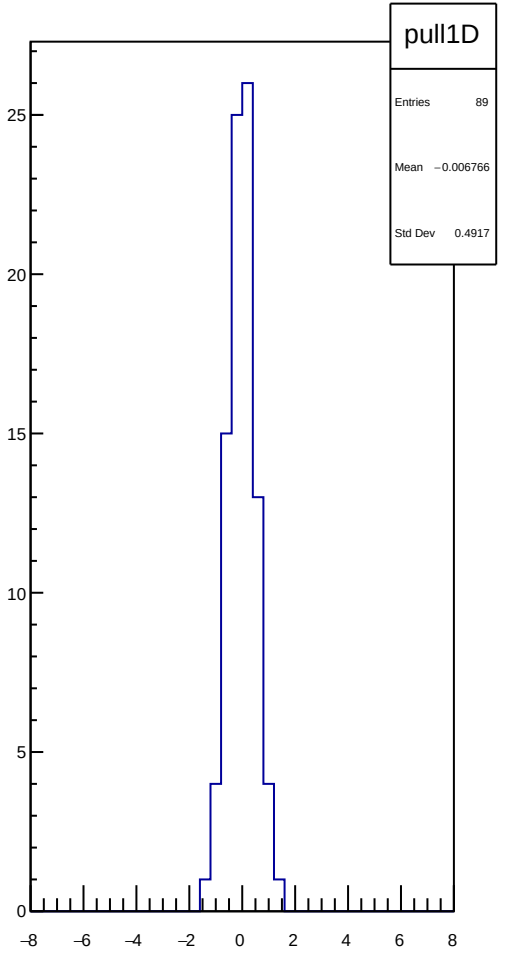

asym_bcm_an_ds_rms vs run
$\chi^2$ / ndf 1752 / 88
p0 159.2 ± 0.119
175
170
165
160
155
150

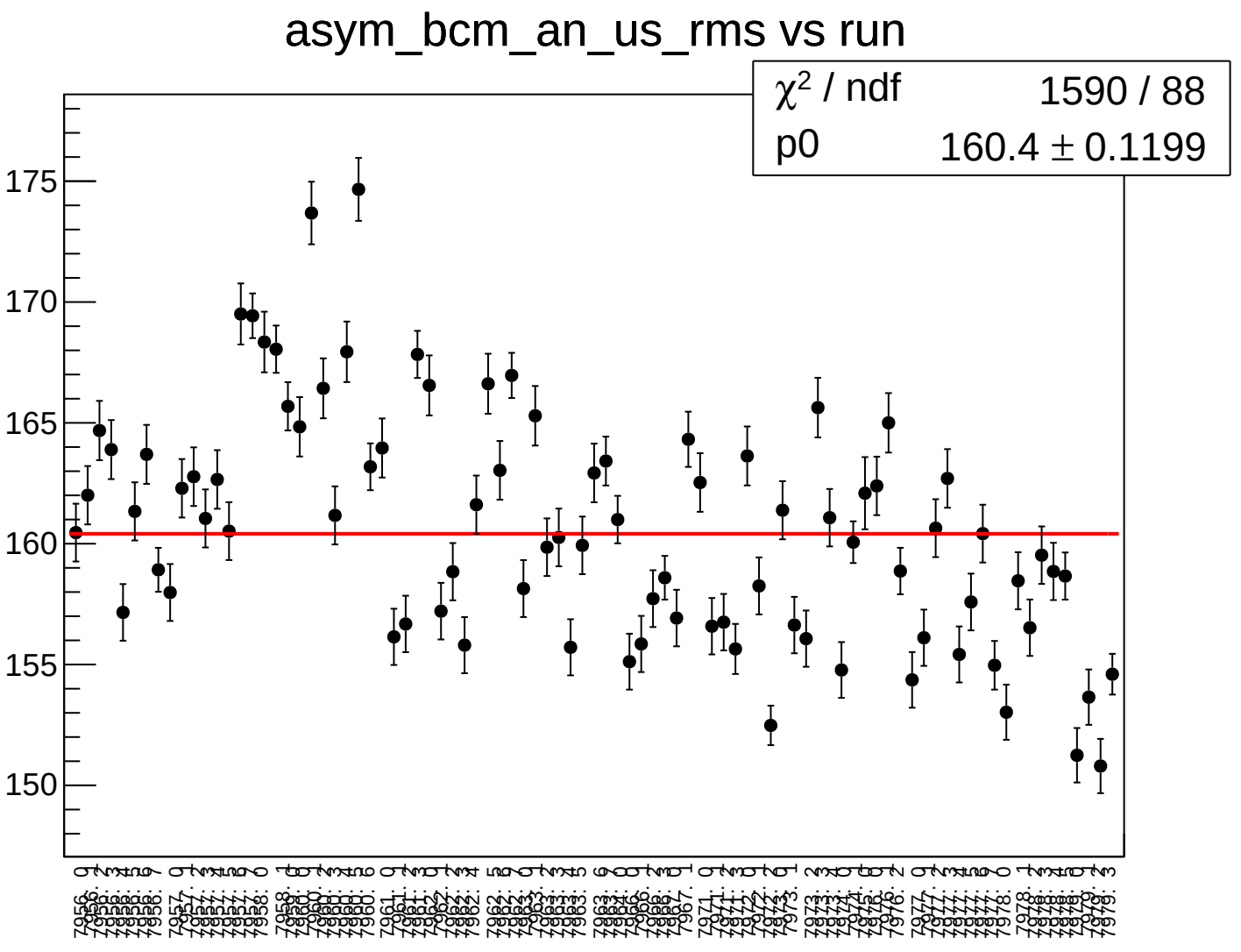

asym_bcm_an_ds3_mean vs run
χ² / ndf 20.83 / 88
p0 201.7 ± 169.1
pull
Entries 89
Mean −246.5
Std Dev 0

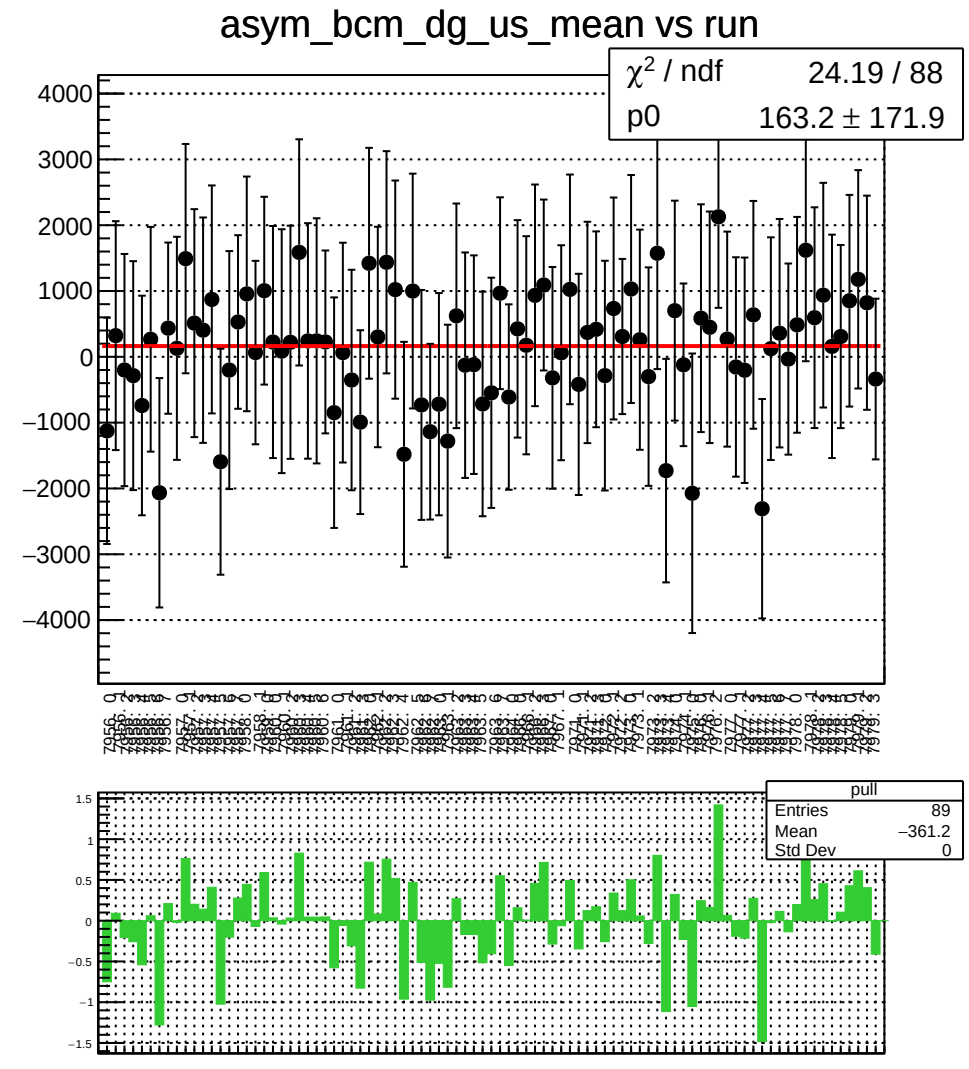

pull1D
Entries 89
Mean −0.005286
Std Dev 0.4837

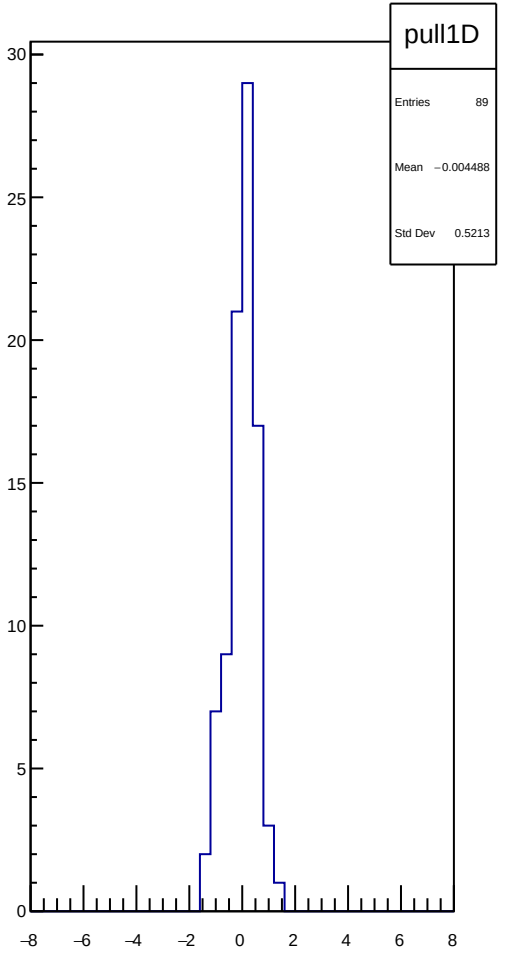

asym_bcm_an_ds3_rms vs run
$\chi^2$ / ndf 1717 / 88
p0 159.9 ± 0.1196
175
170
165
160
155
150

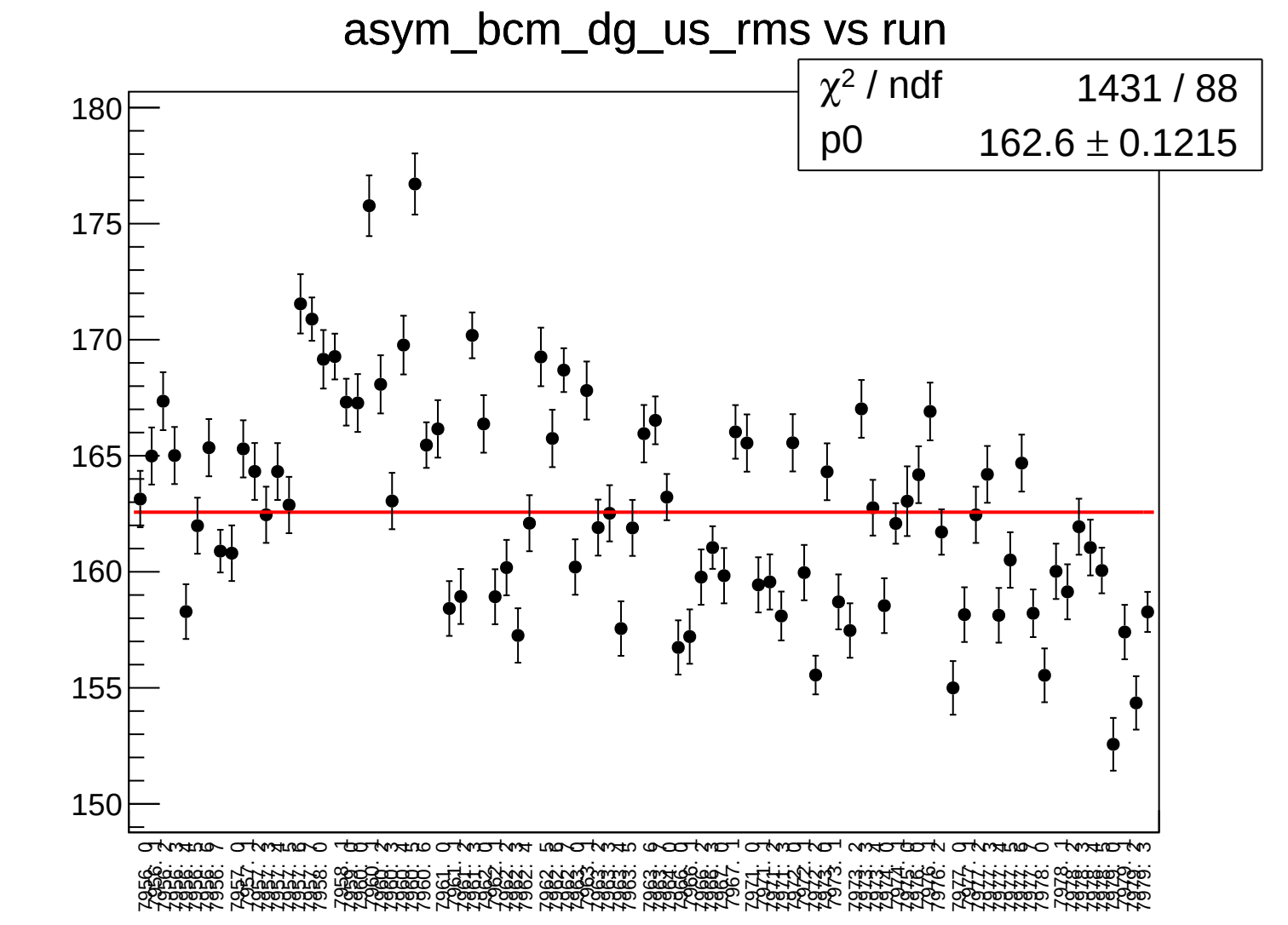

asym_bcm_an_us_mean vs run
$\chi^2$ / ndf 21.52 / 88
p0 179.2 ± 169.6
pull
Entries 89
Mean −194.5
Std Dev 0

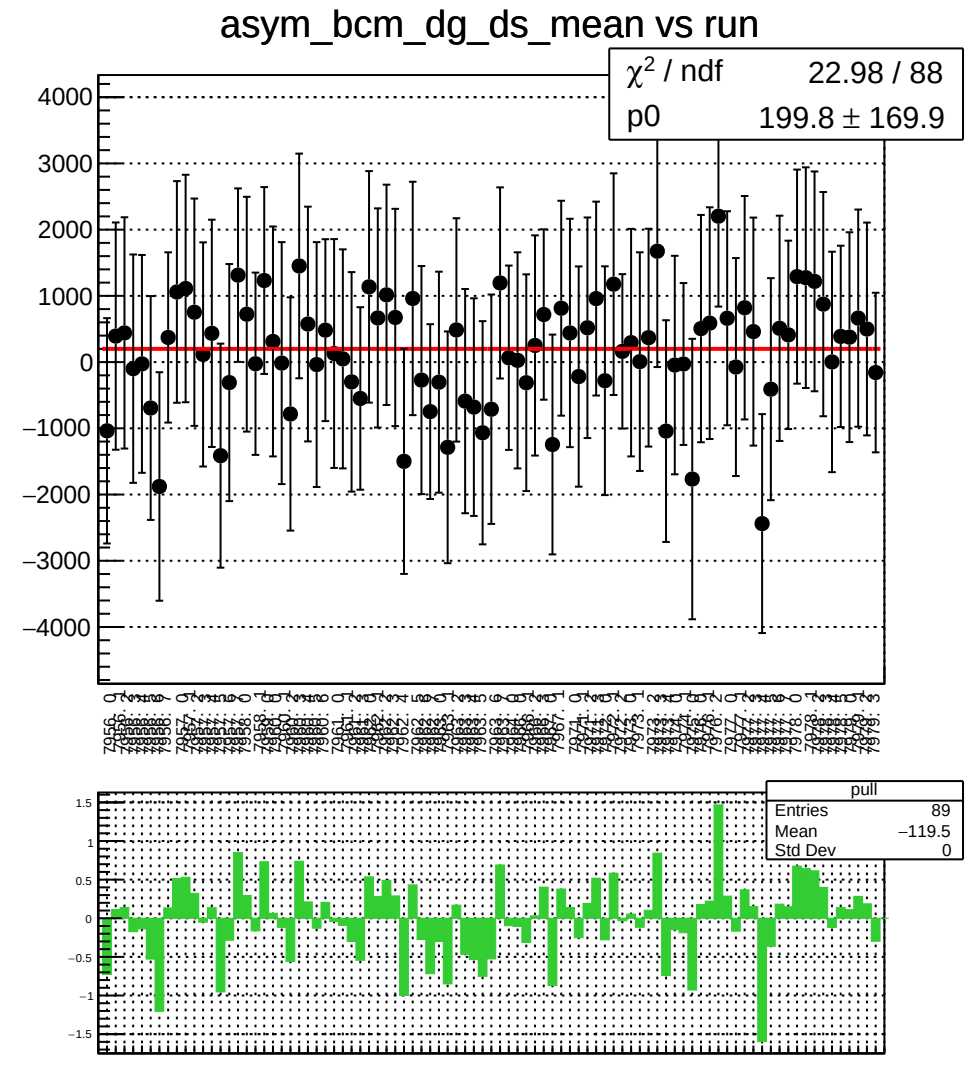

pull1D
Entries 89
Mean −0.006766
Std Dev 0.4917

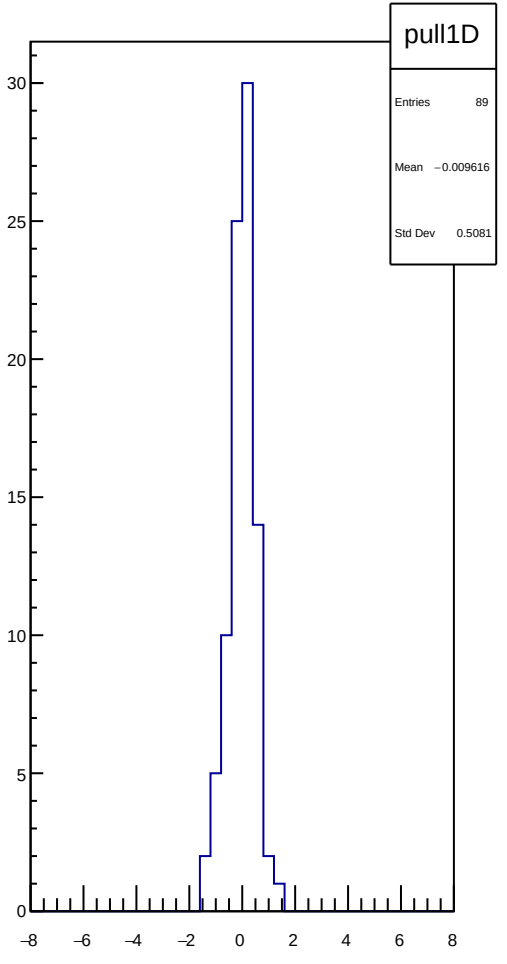

asym_bcm_an_us_rms vs run
χ² / ndf 1590 / 88
p0 160.4 ± 0.1199
175
170
165
160
155
150

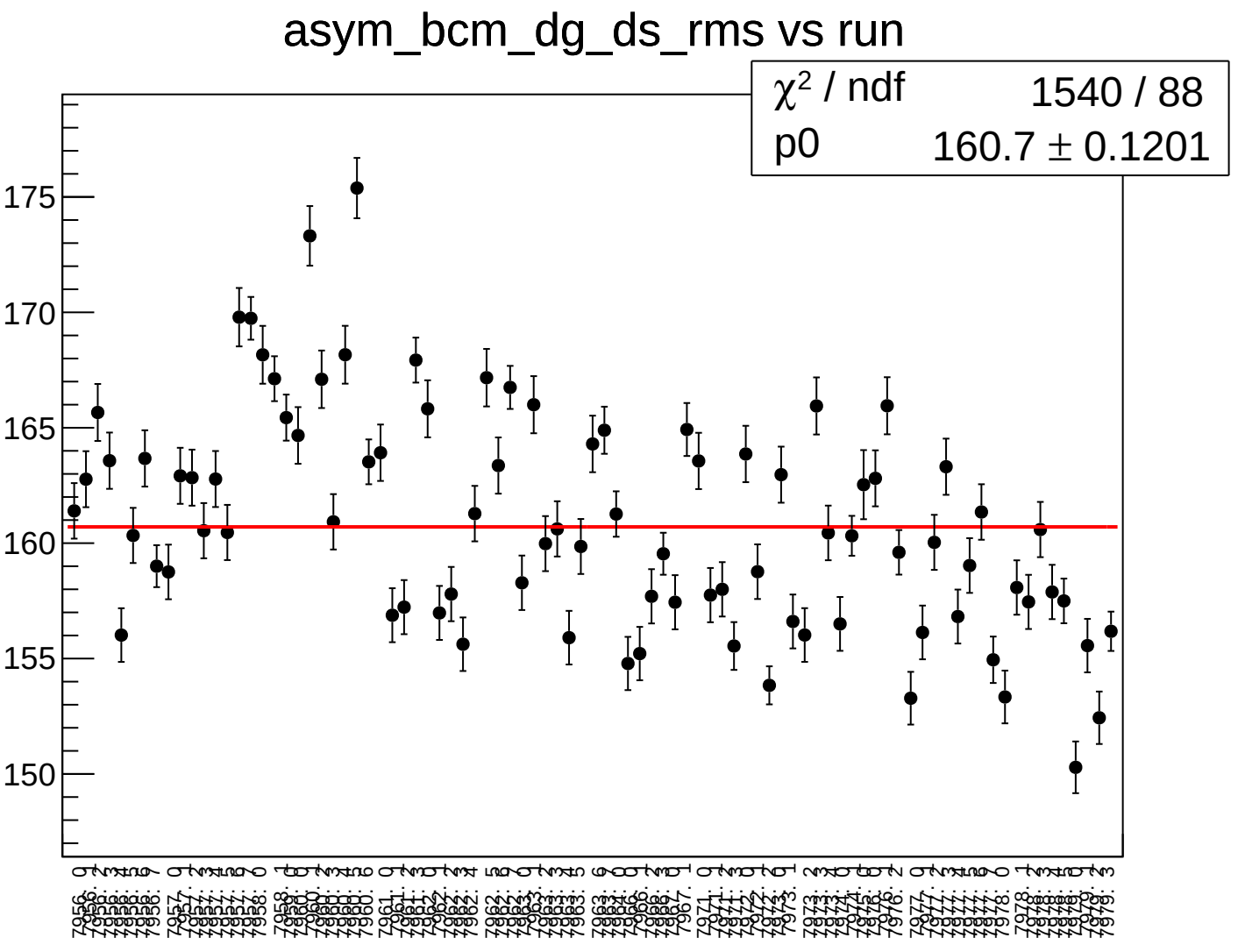

asym_bcm_dg_us_mean vs run
χ² / ndf 24.19 / 88
p0 163.2 ± 171.9
pull
Entries 89
Mean −361.2
Std Dev 0

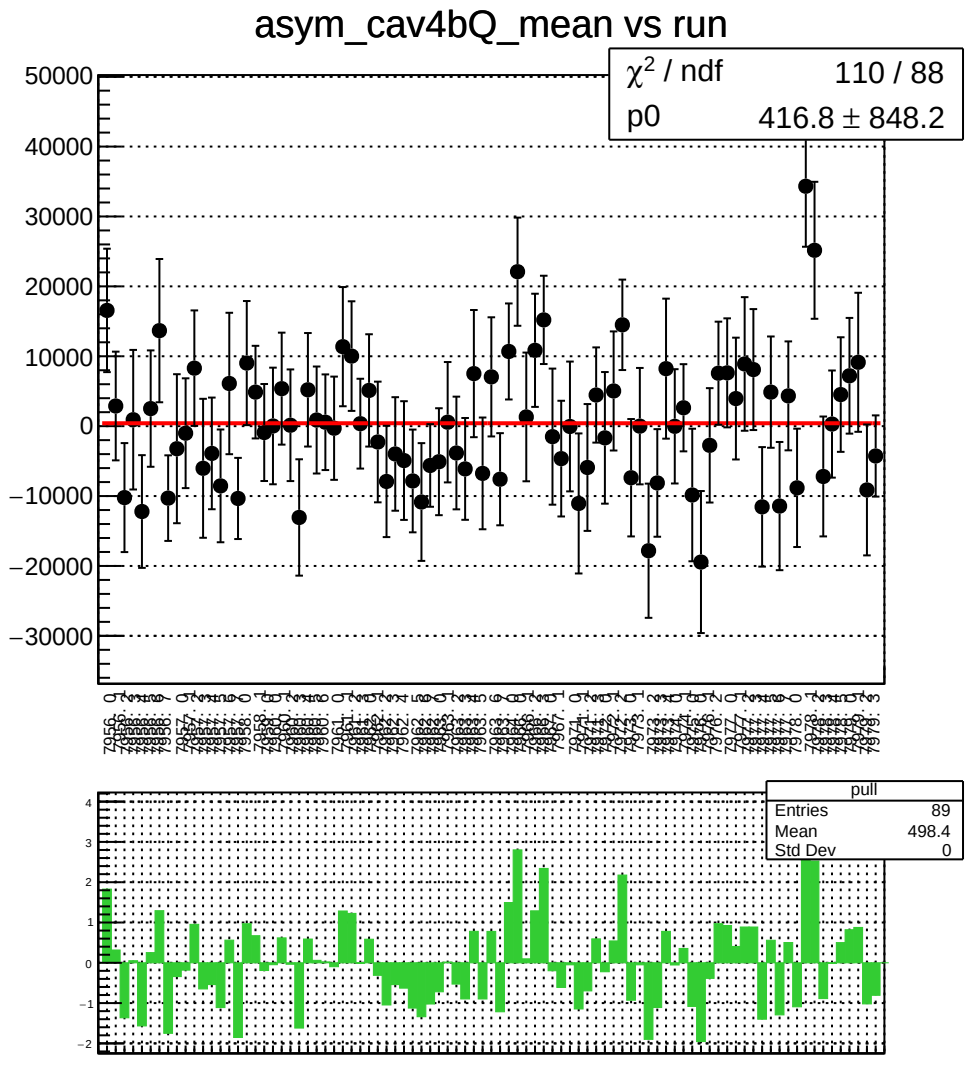

pull1D
Entries 89
Mean −0.004488
Std Dev 0.5213

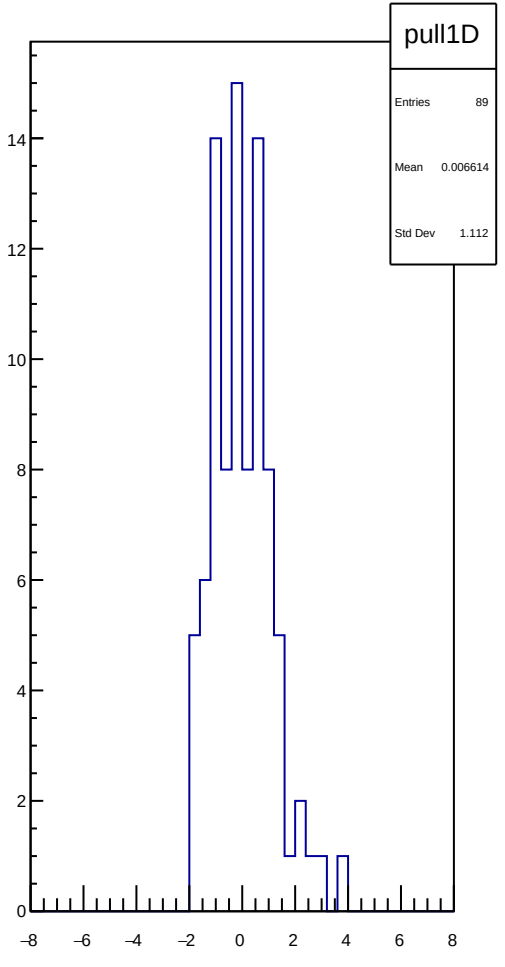

asym_bcm_dg_us_rms vs run
χ² / ndf 1431 / 88
p0 162.6 ± 0.1215
180
175
170
165
160
155
150


asym_bcm_dg_ds_mean vs run
χ² / ndf 22.98 / 88
p0 199.8 ± 169.9
pull
Entries 89
Mean −119.5
Std Dev 0

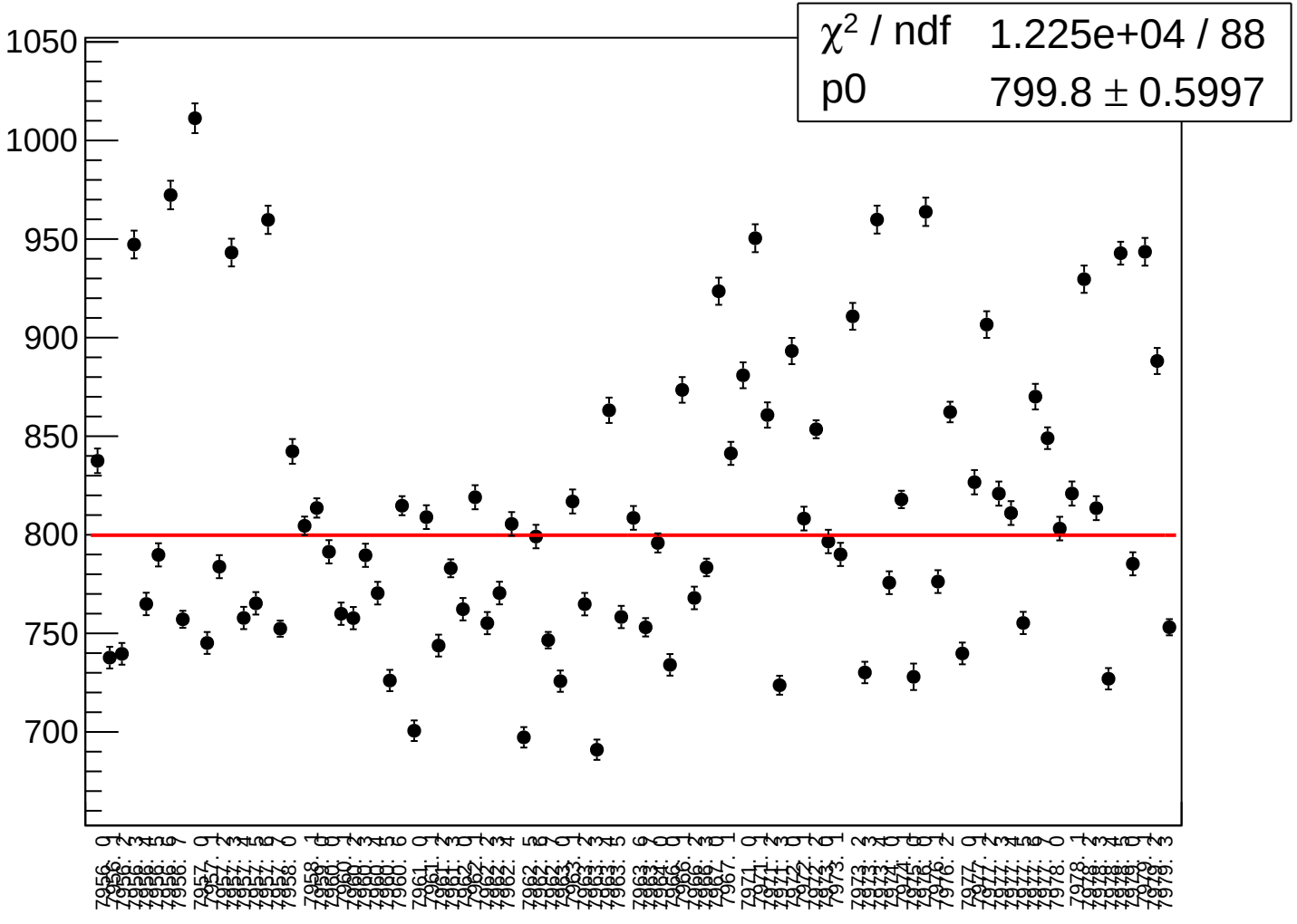

pull1D
Entries 89
Mean −0.009616
Std Dev 0.5081

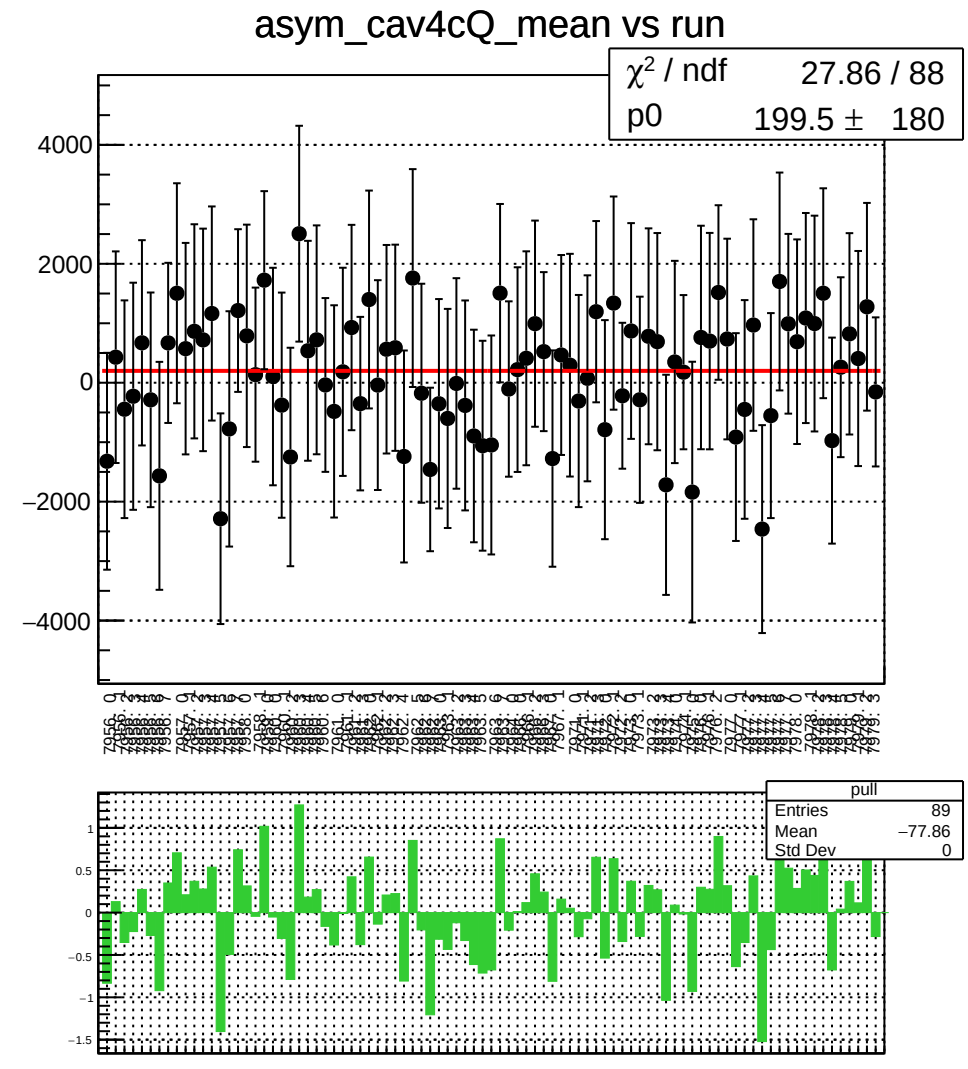

asym_bcm_dg_ds_rms vs run
χ² / ndf 1540 / 88
p0 160.7 ± 0.1201
175
170
165
160
155
150

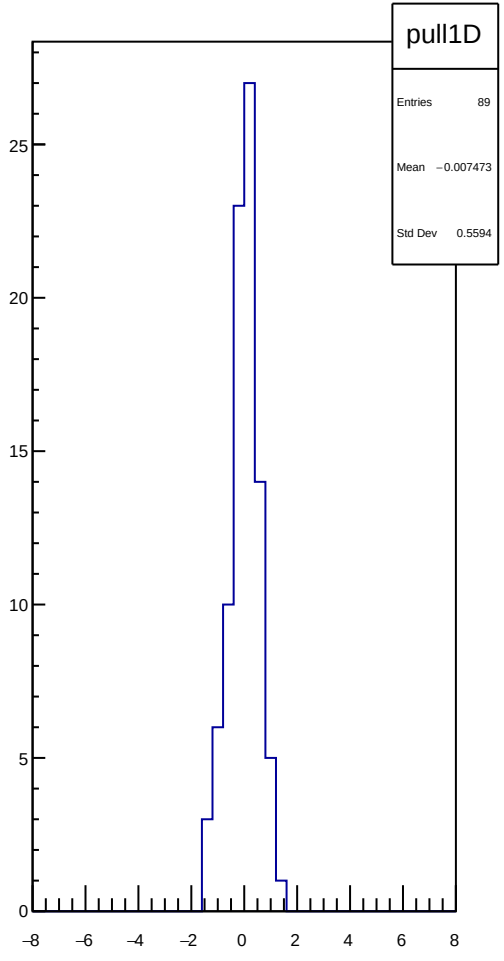

asym_cav4bQ_mean vs run
χ² / ndf 110 / 88
p0 416.8 ± 848.2
pull
Entries 89
Mean 498.4
Std Dev 0

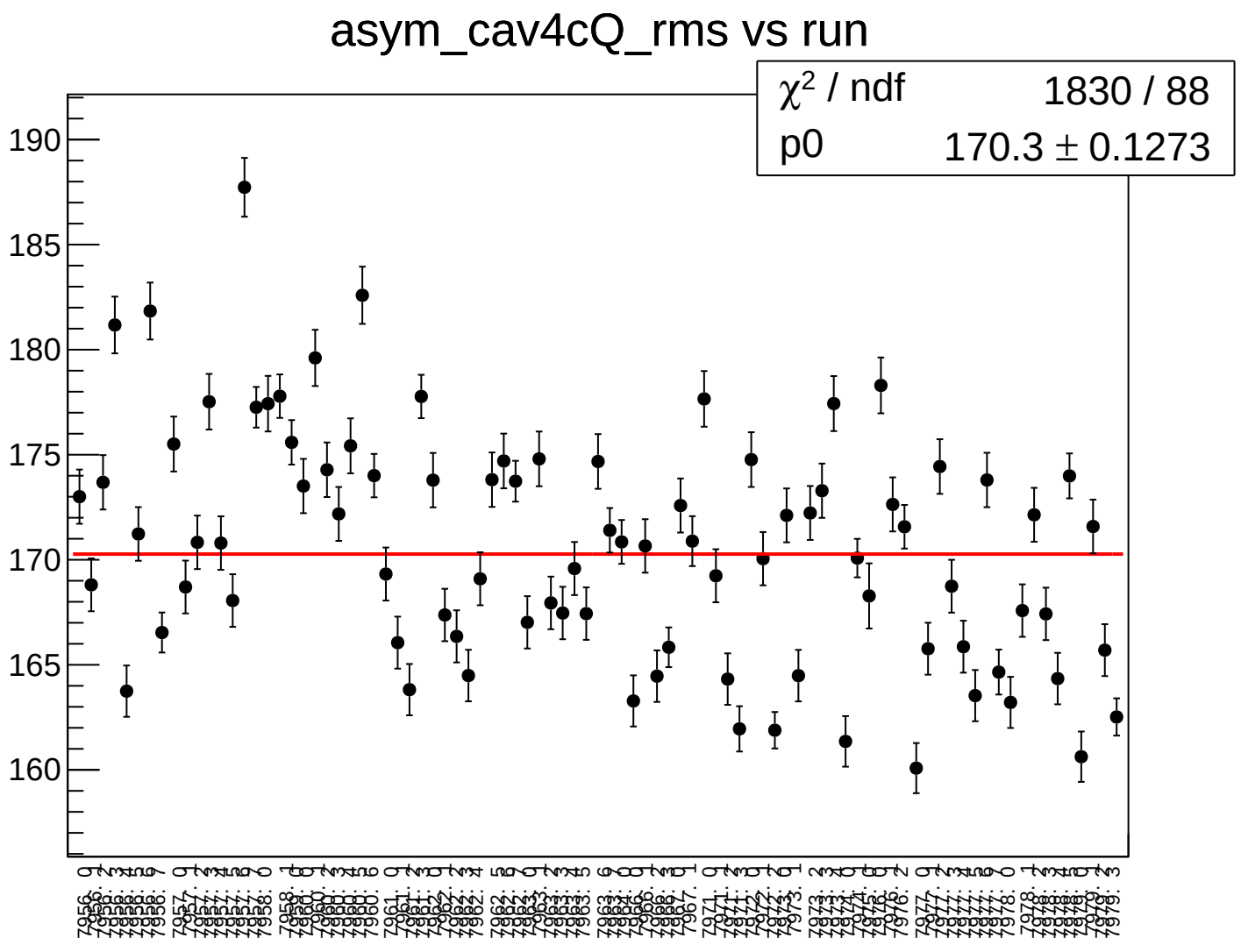

pull1D
Entries 89
Mean 0.006614
Std Dev 1.112

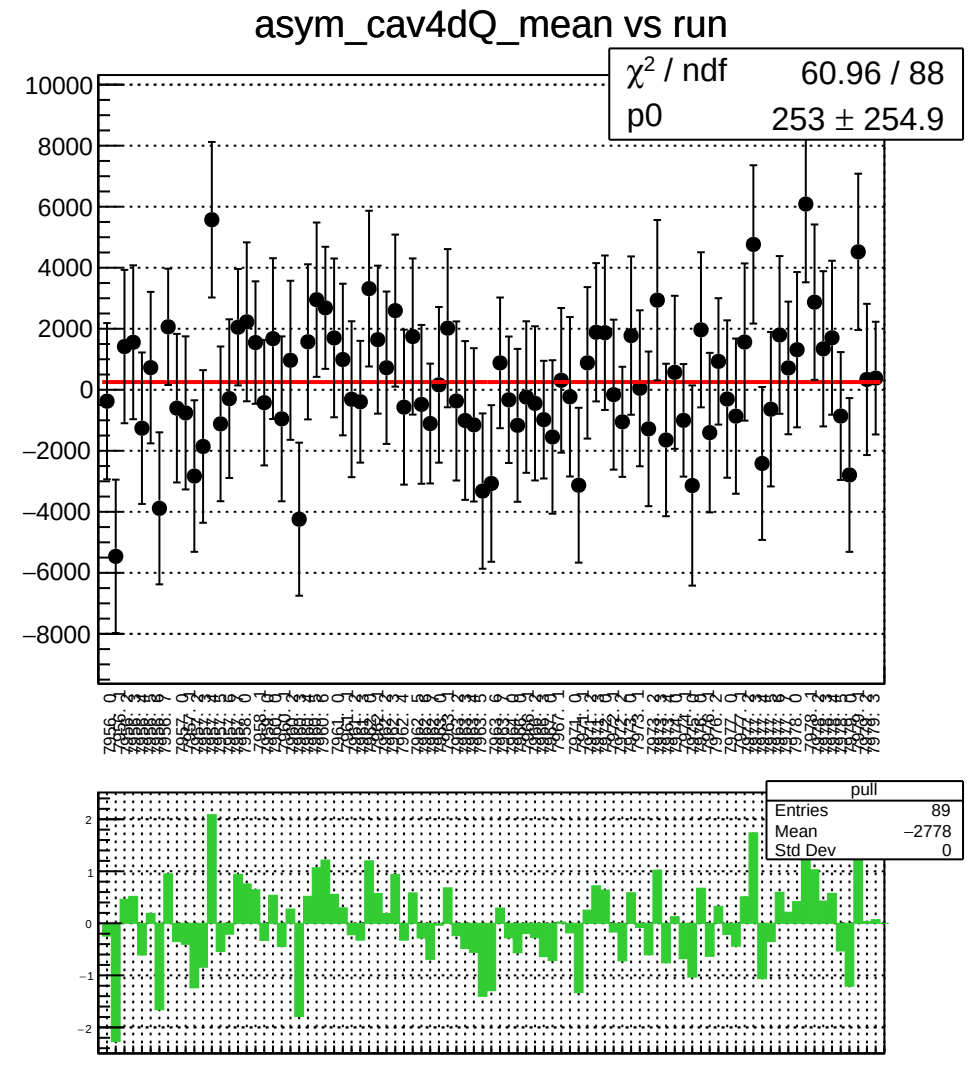
# asym_cav4bQ_rms vs run

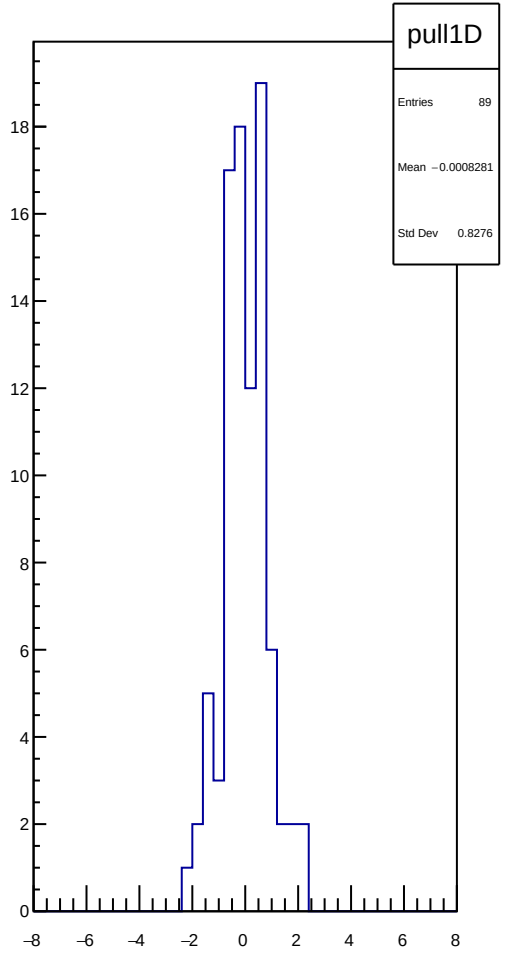


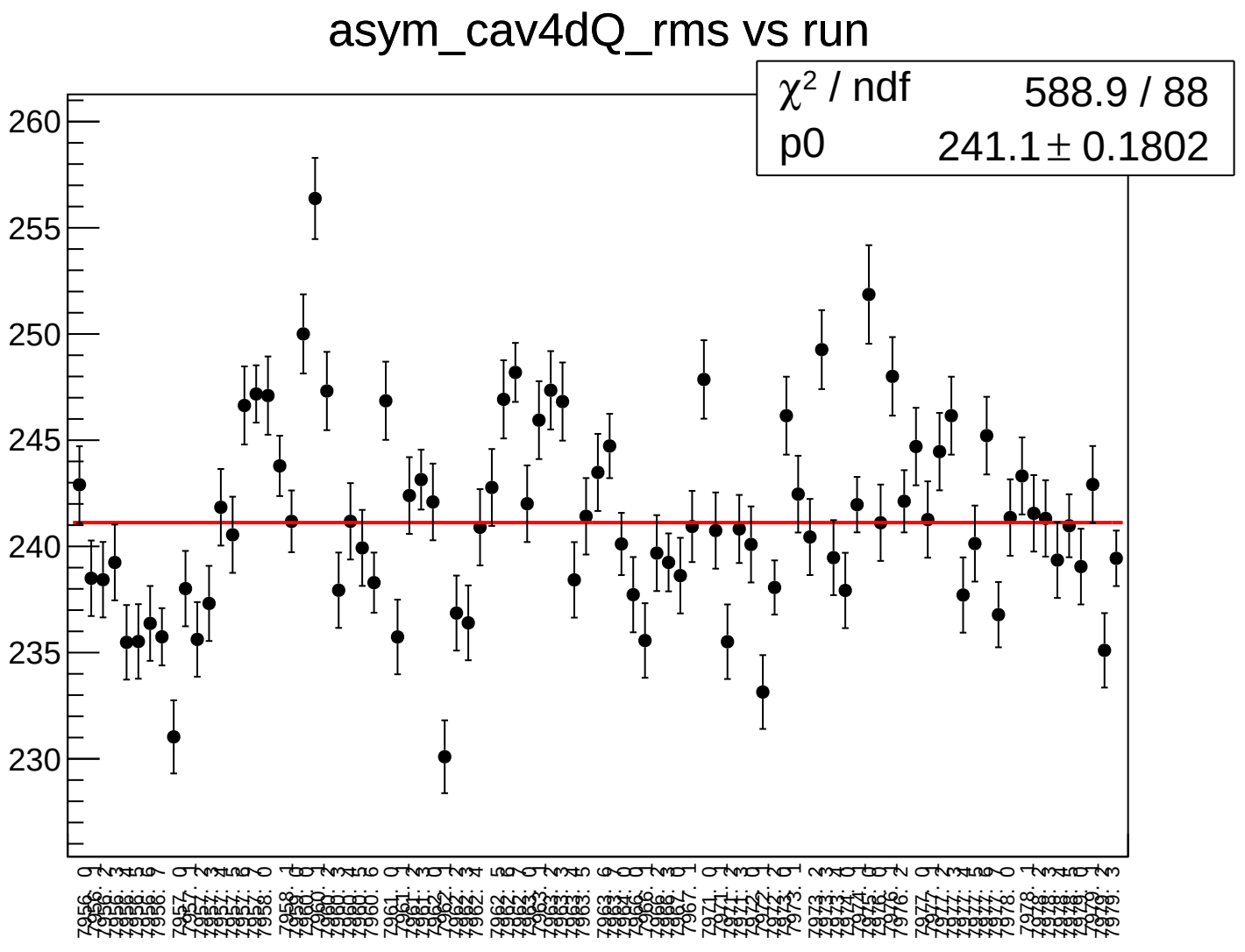

asym_cav4cQ_mean vs run
χ² / ndf 27.86 / 88
p0 199.5 ± 180
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −77.86
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

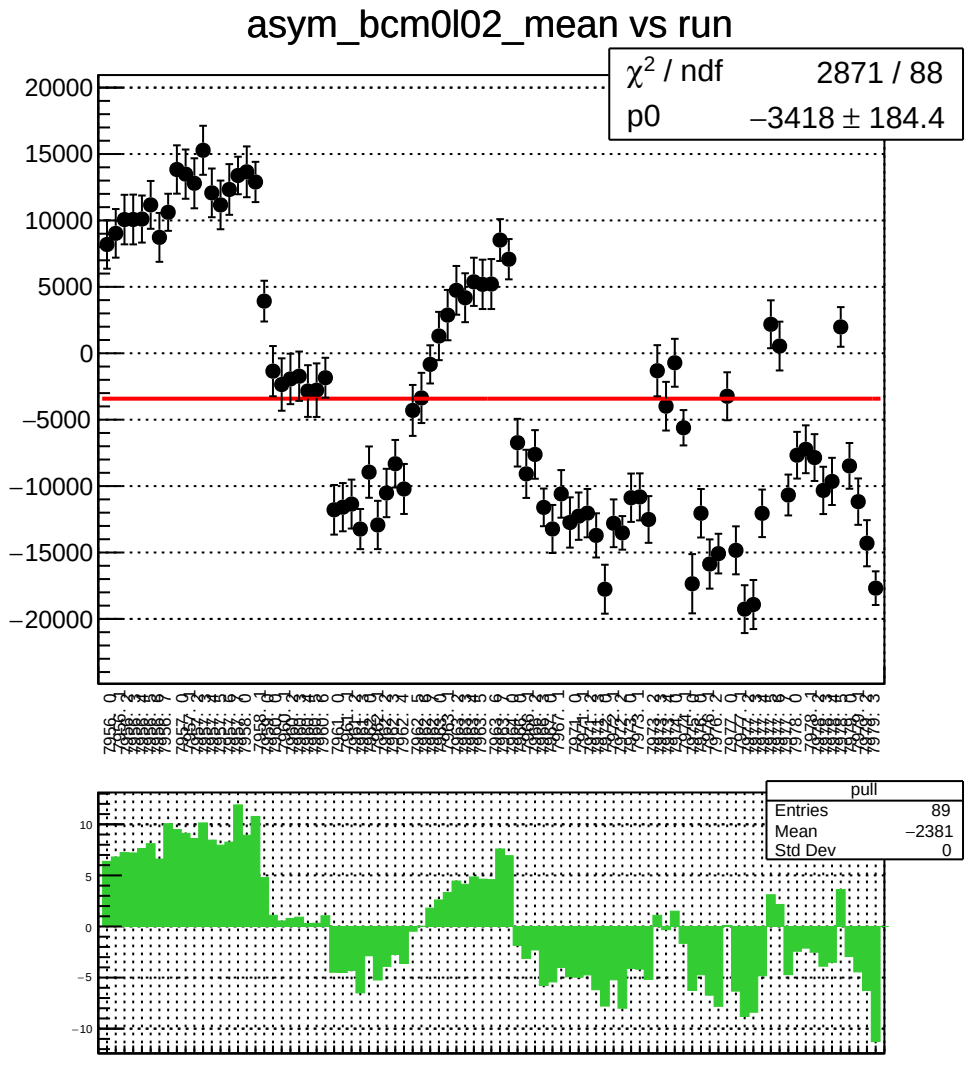

pull1D
Entries 89
Mean −0.007473
Std Dev 0.5594
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

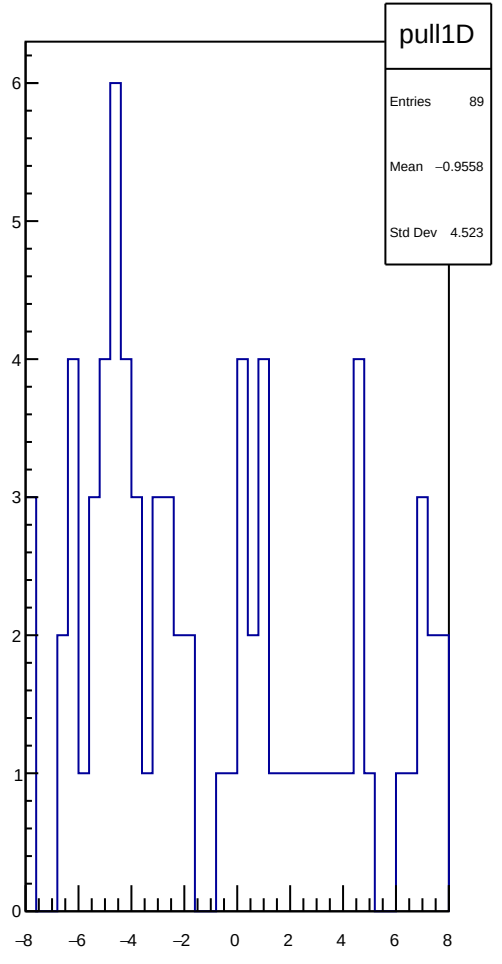

asym_cav4cQ_rms vs run
χ² / ndf 1830 / 88
p0 170.3 ± 0.1273
190
185
180
175
170
165
160

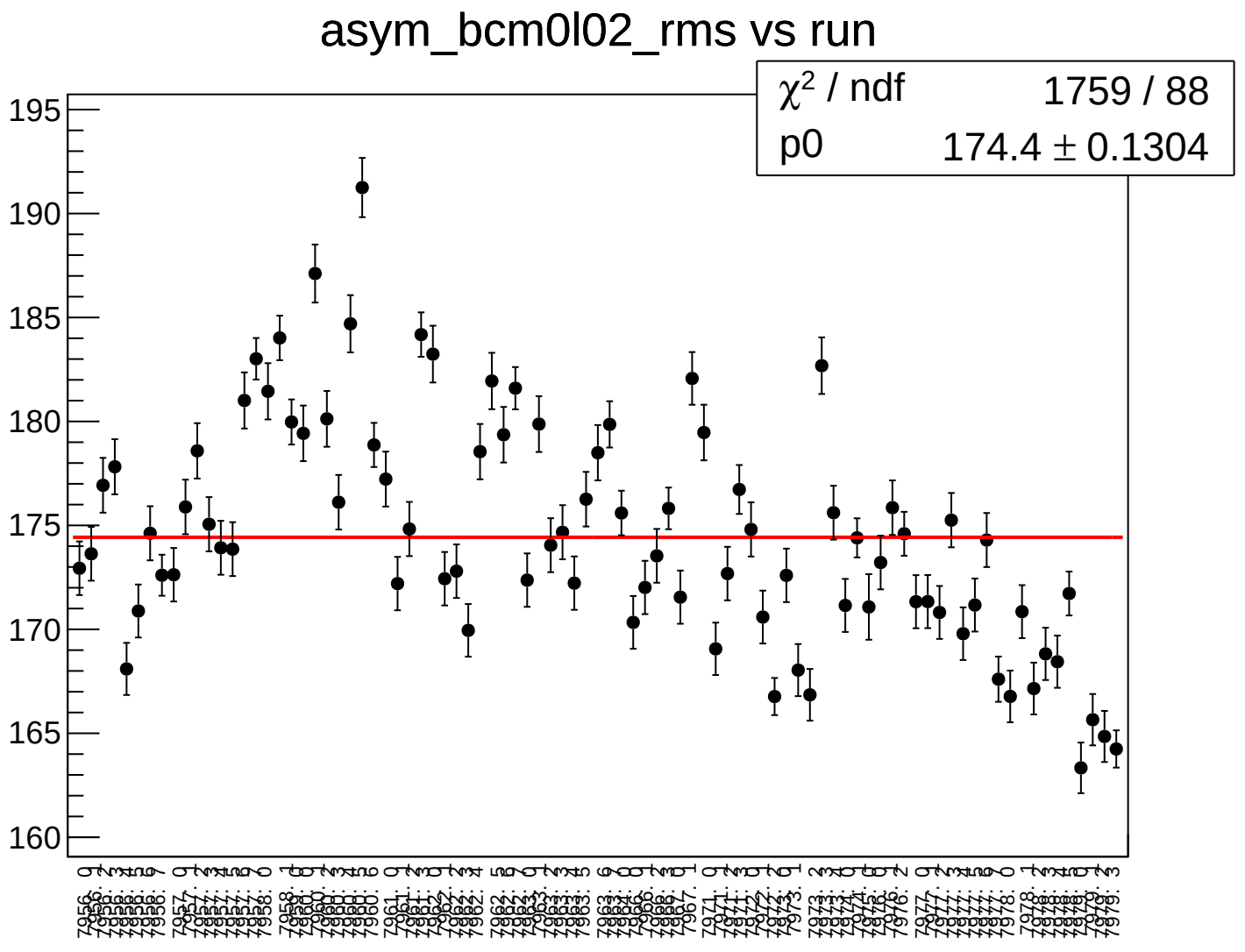

asym_cav4dQ_mean vs run
χ² / ndf 60.96 / 88
p0 253 ± 254.9
pull
Entries 89
Mean −2778
Std Dev 0

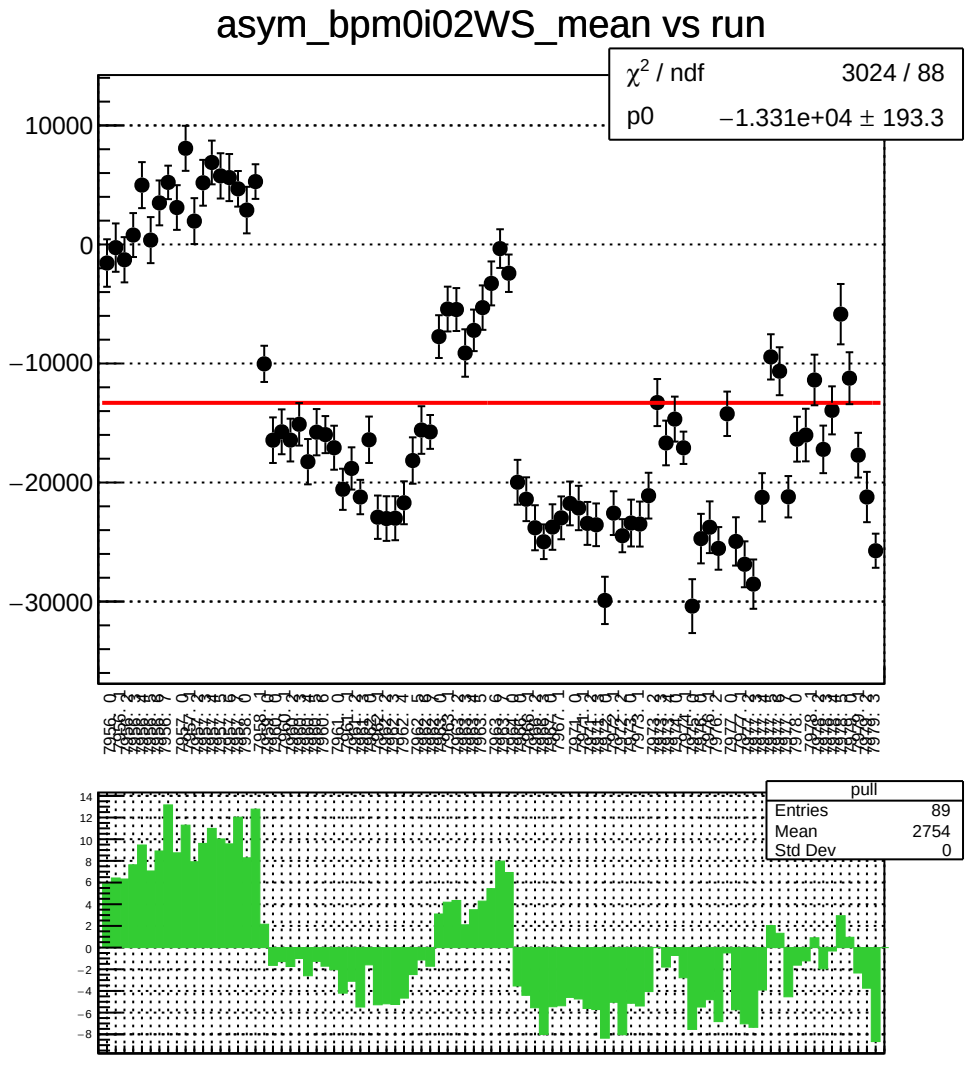

pull1D
Entries 89
Mean −0.0008281
Std Dev 0.8276

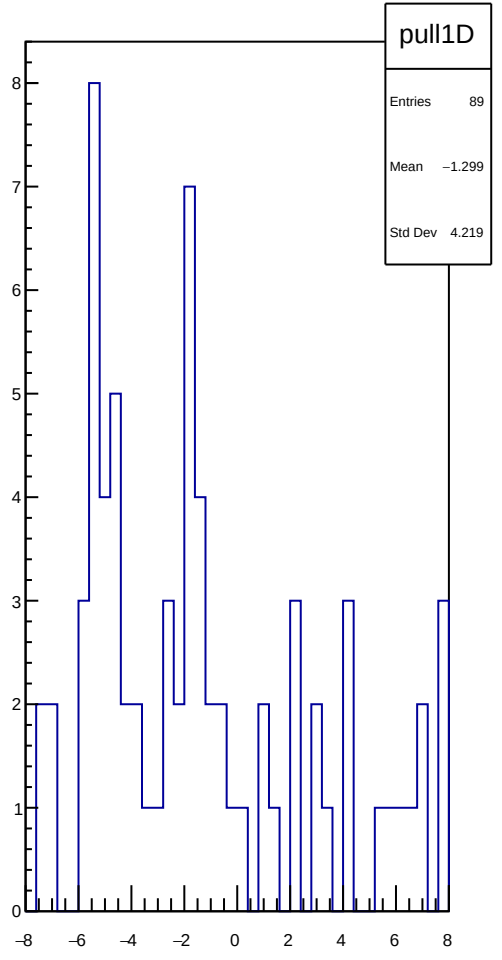

asym_cav4dQ_rms vs run
χ² / ndf 588.9 / 88
p0 241.1 ± 0.1802
260
255
250
245
240
235
230

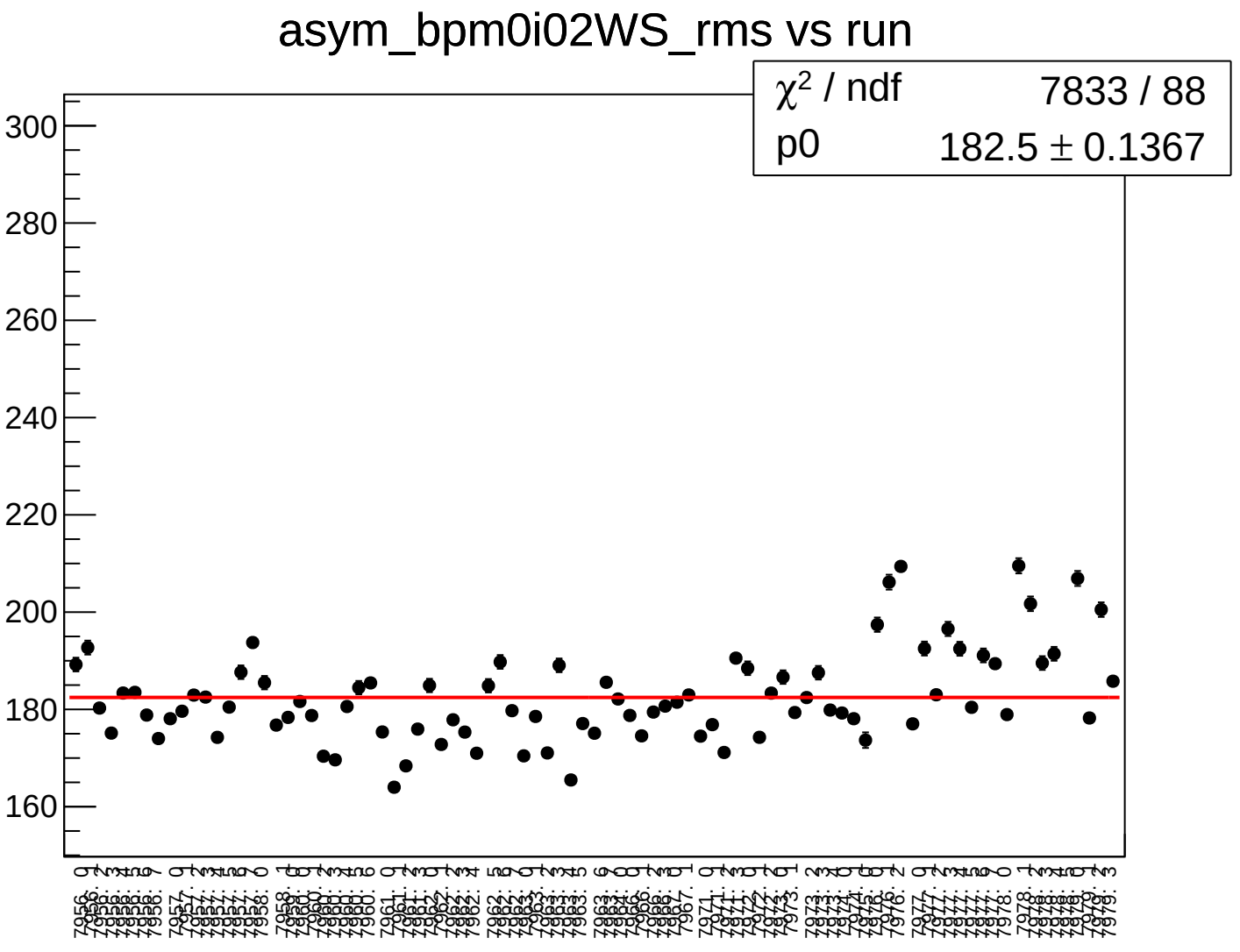

asym_bcm0l02_mean vs run
χ² / ndf 2871 / 88
p0 −3418 ± 184.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −2381
Std Dev 0
10
5
0
−5
−10

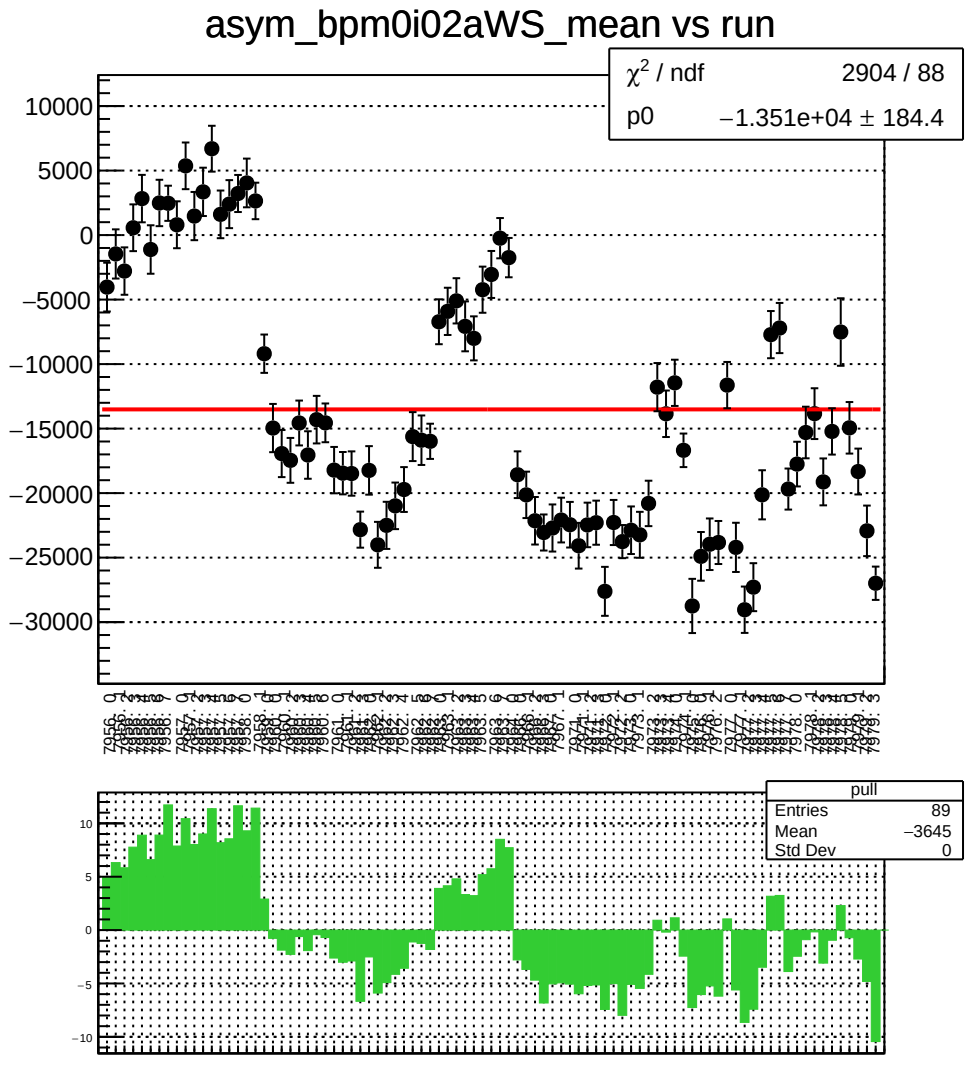

pull1D
Entries 89
Mean −0.9558
Std Dev 4.523
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

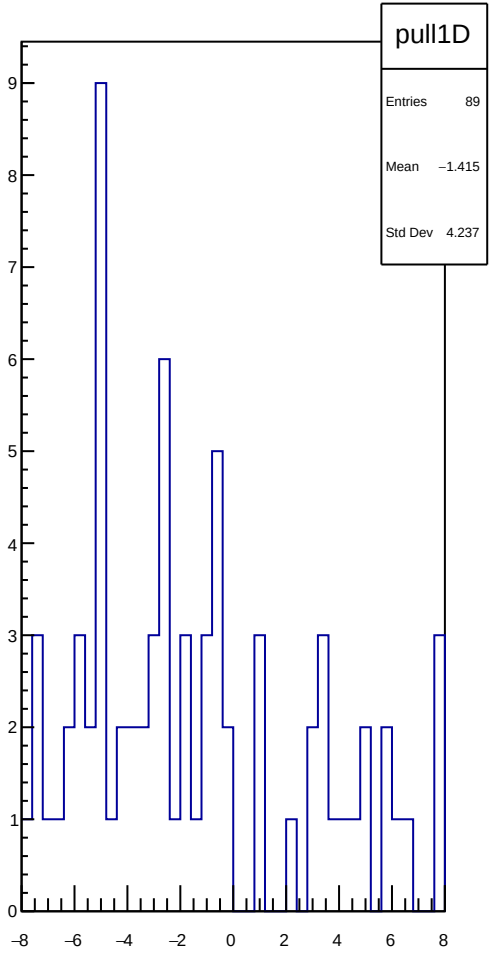

asym_bcm0l02_rms vs run
χ² / ndf 1759 / 88
p0 174.4 ± 0.1304
195
190
185
180
175
170
165
160

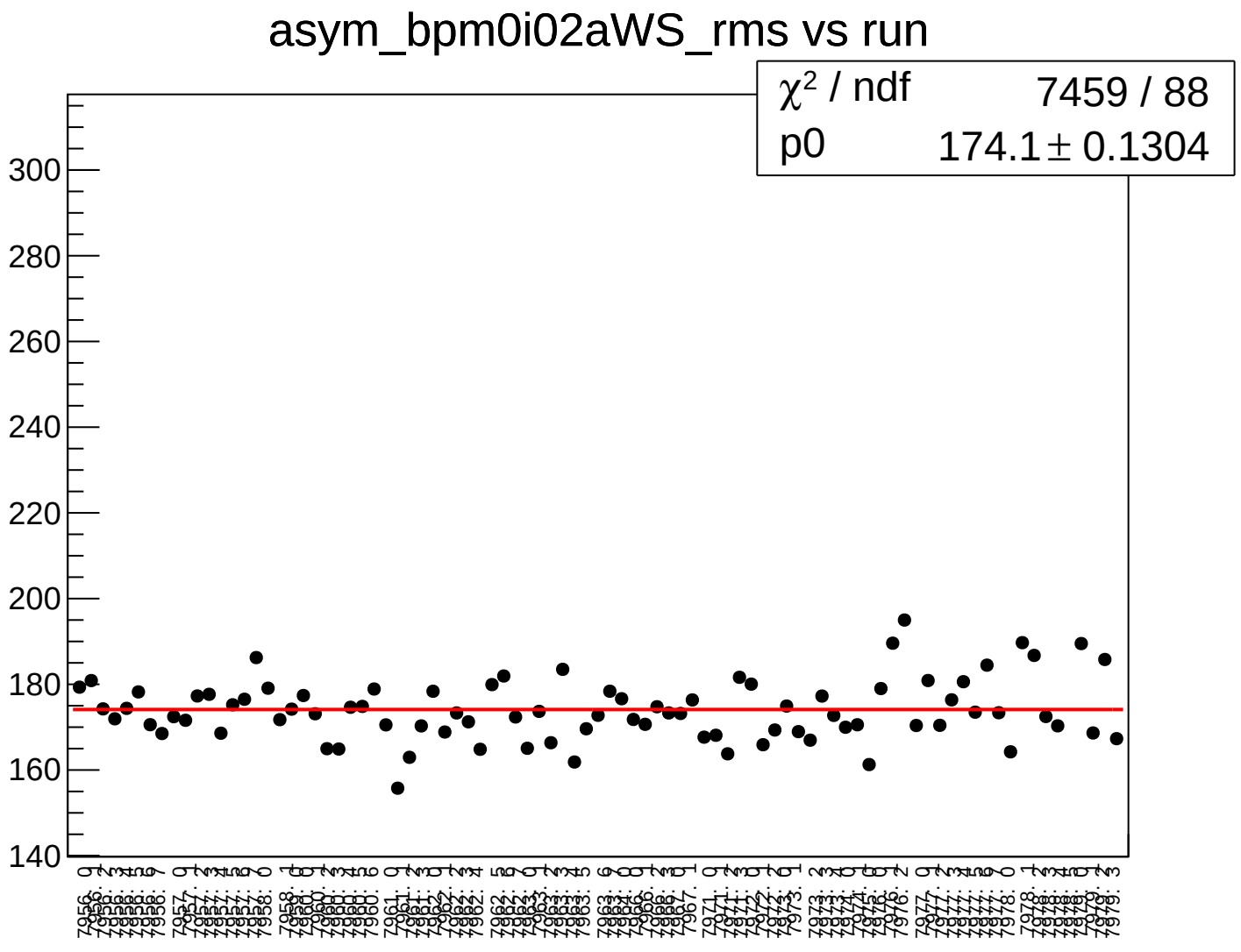

asym_bpm0i02WS_mean vs run
χ² / ndf 3024 / 88
p0 −1.331e+04 ± 193.3
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 2754
Std Dev 0

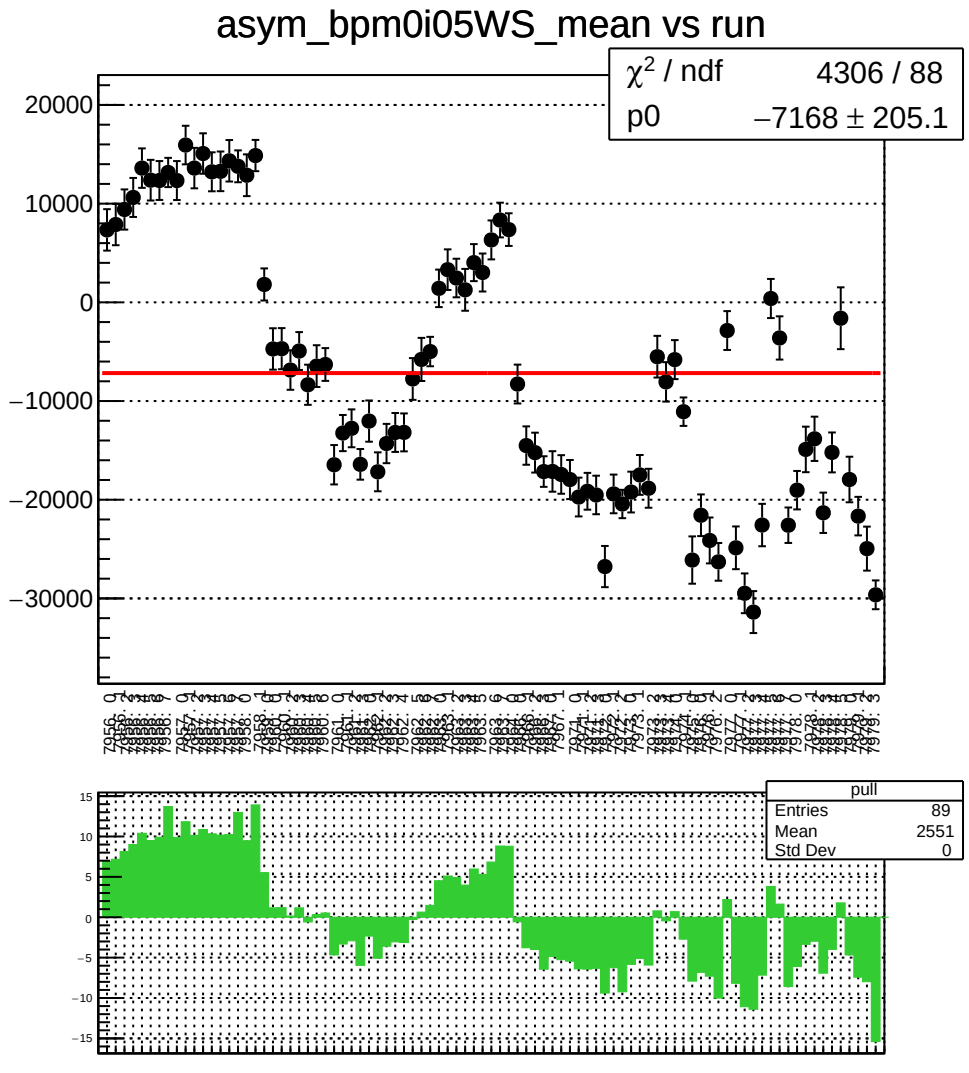

pull1D
Entries 89
Mean −1.299
Std Dev 4.219

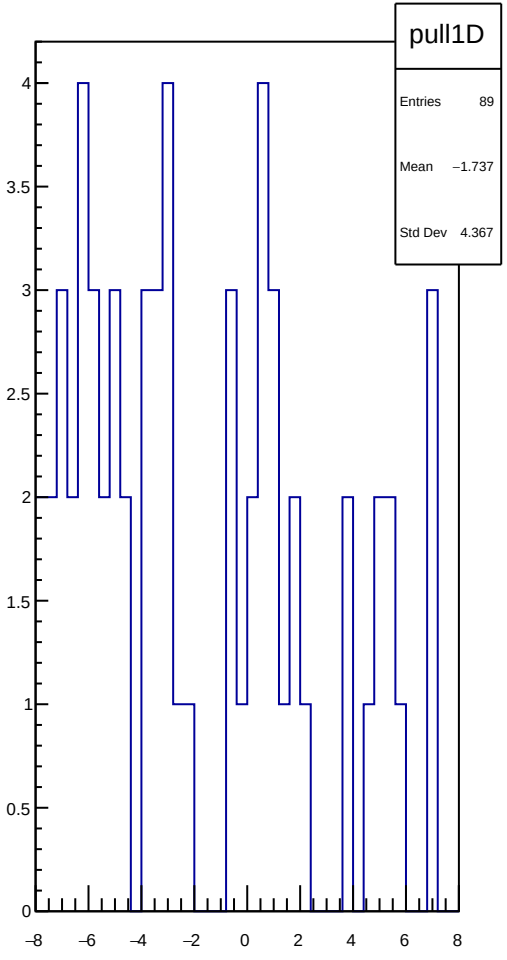

asym_bpm0i02WS_rms vs run
χ² / ndf 7833 / 88
p0 182.5 ± 0.1367
300
280
260
240
220
200
180
160

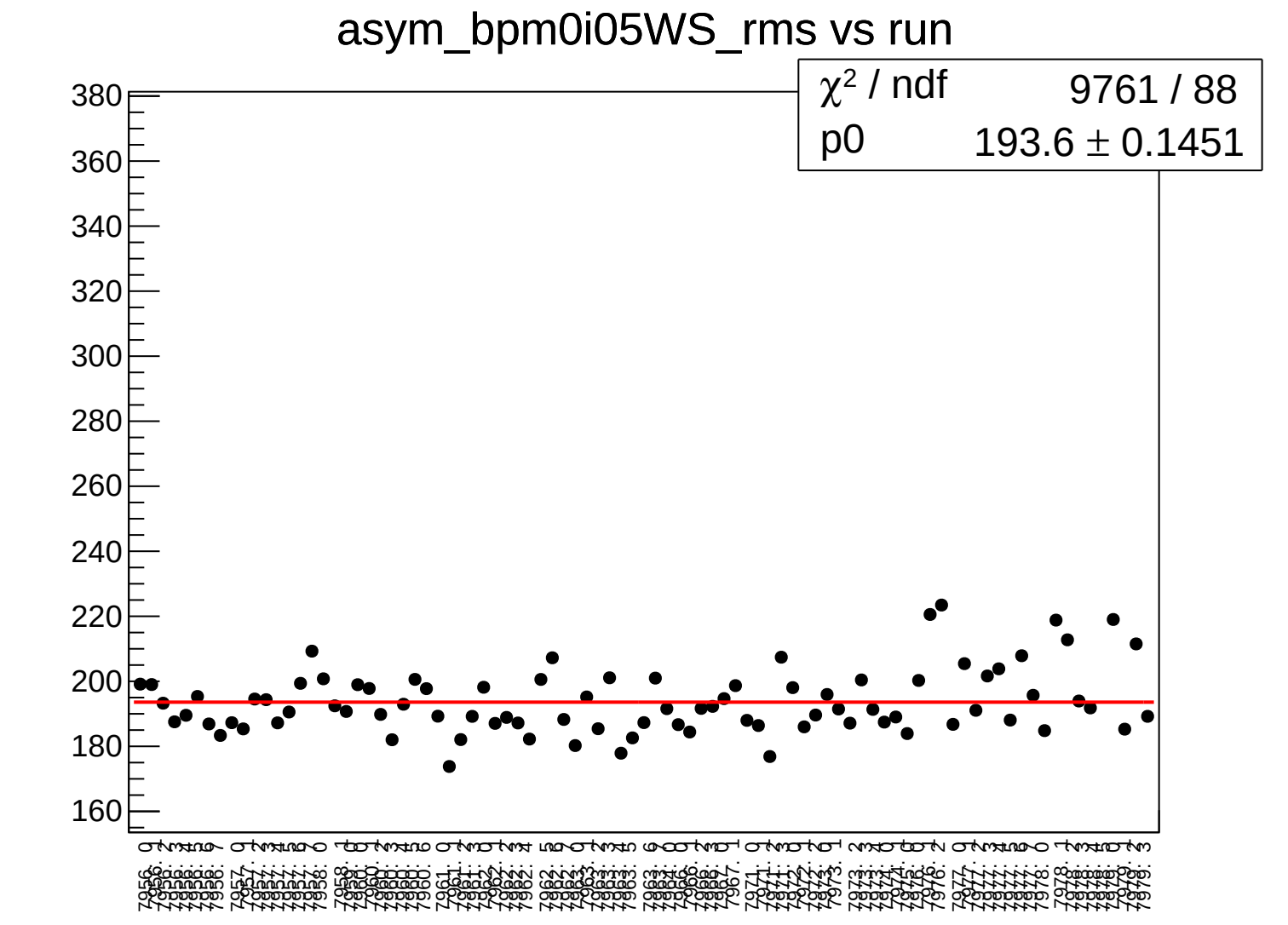

asym_bpm0i02aWS_mean vs run
χ² / ndf 2904 / 88
p0 −1.351e+04 ± 184.4
pull
Entries 89
Mean −3645
Std Dev 0

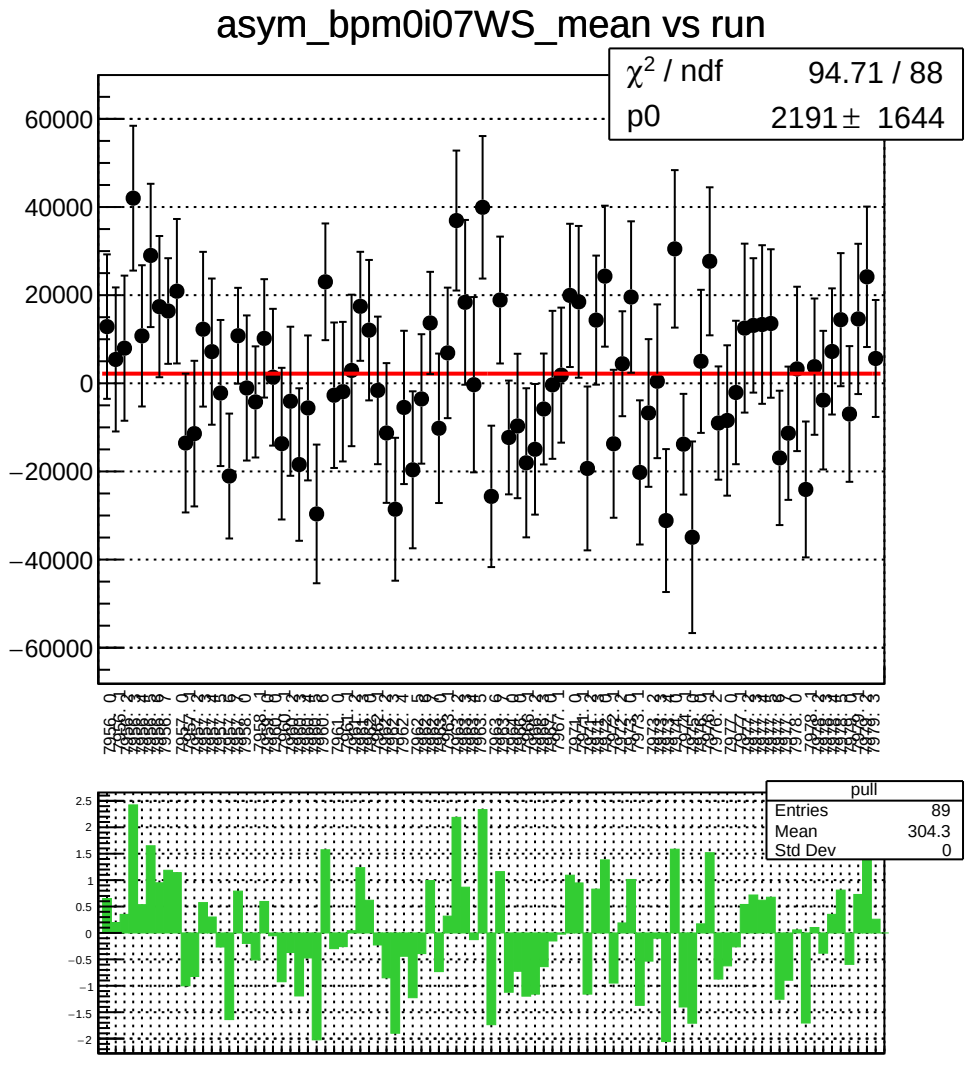

pull1D
Entries 89
Mean −1.415
Std Dev 4.237

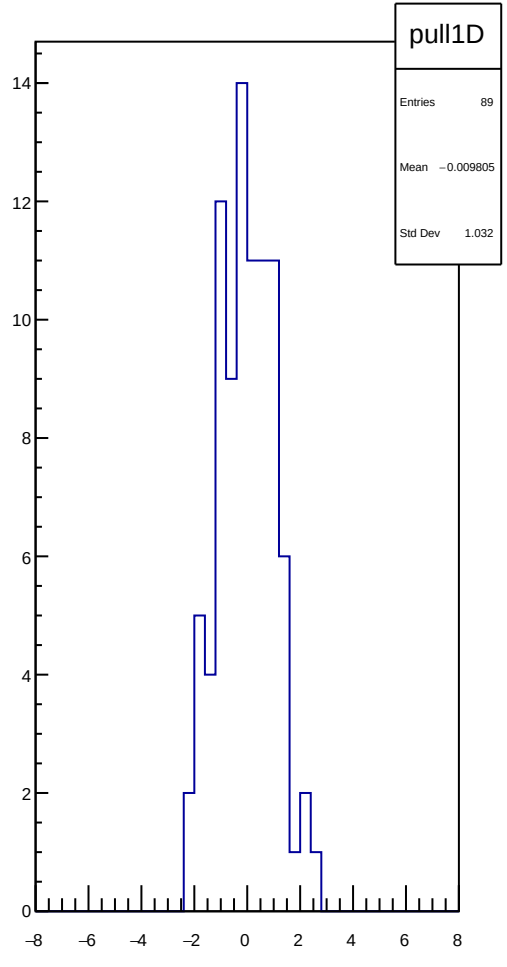

asym_bpm0i02aWS_rms vs run
χ² / ndf 7459 / 88
p0 174.1 ± 0.1304
300
280
260
240
220
200
180
160
140

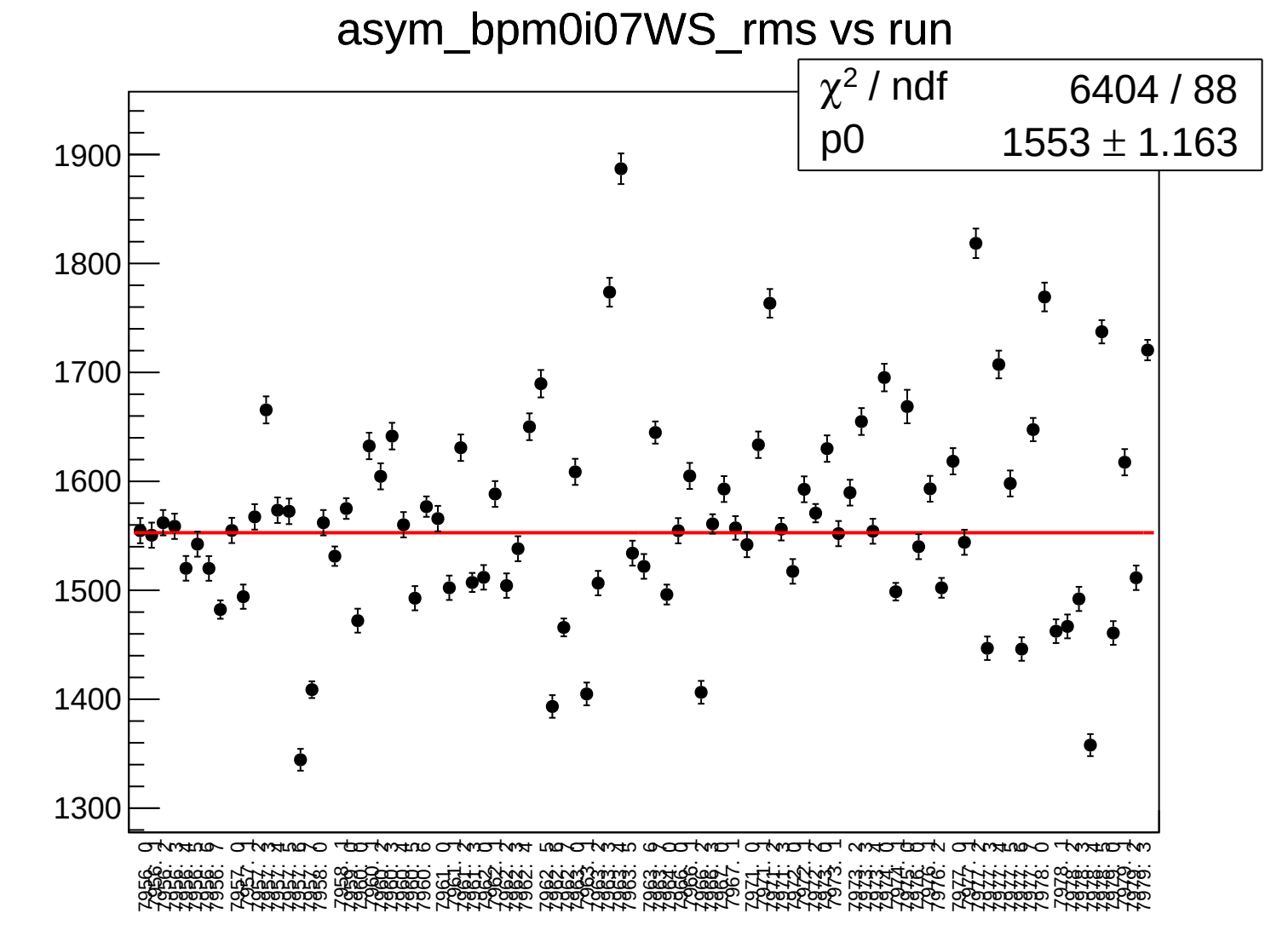

asym_bpm0i05WS_mean vs run
χ² / ndf 4306 / 88
p0 −7168 ± 205.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 2551
Std Dev 0
15
10
5
0
−5
−10
−15

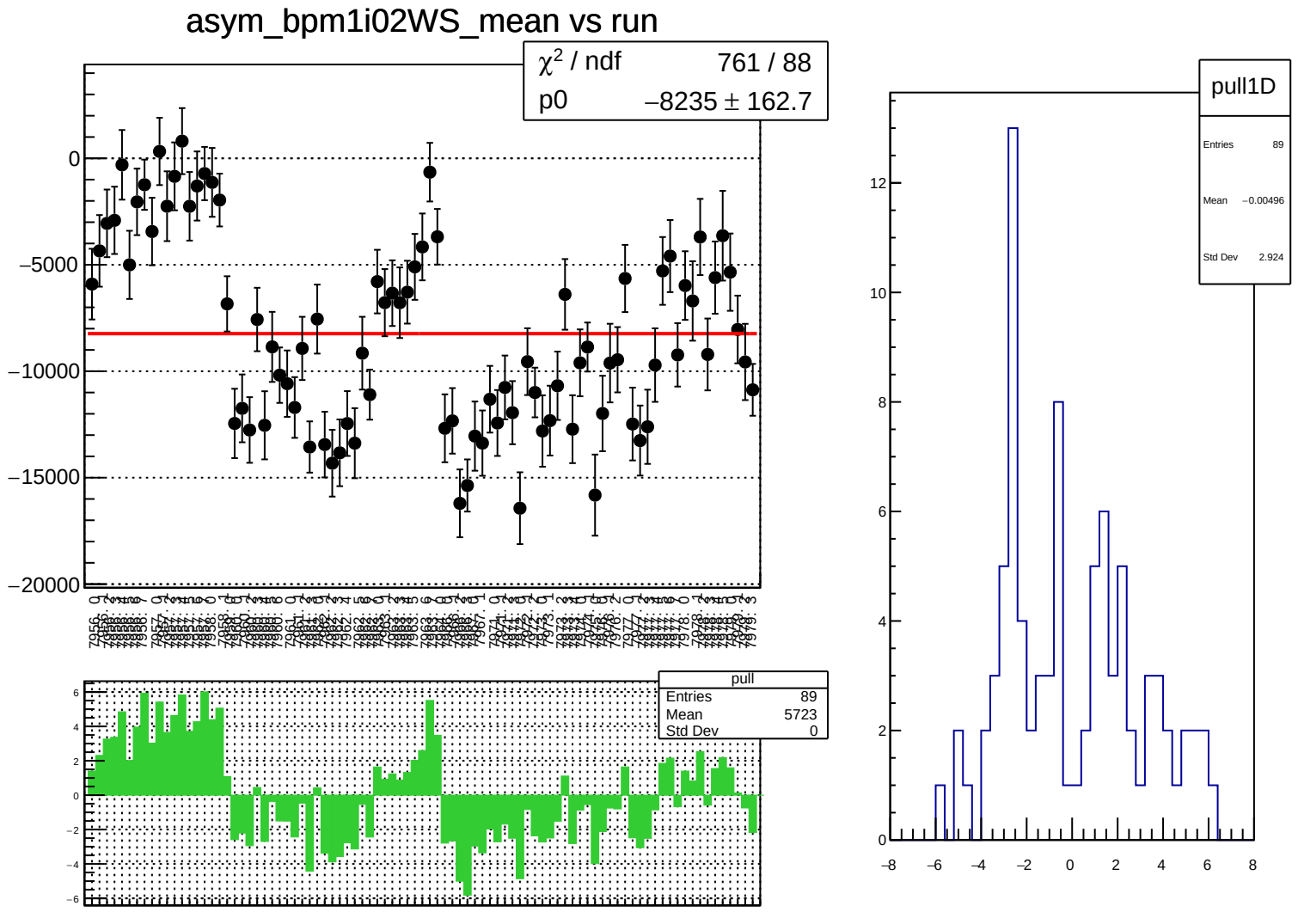

pull1D
Entries 89
Mean −1.737
Std Dev 4.367
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

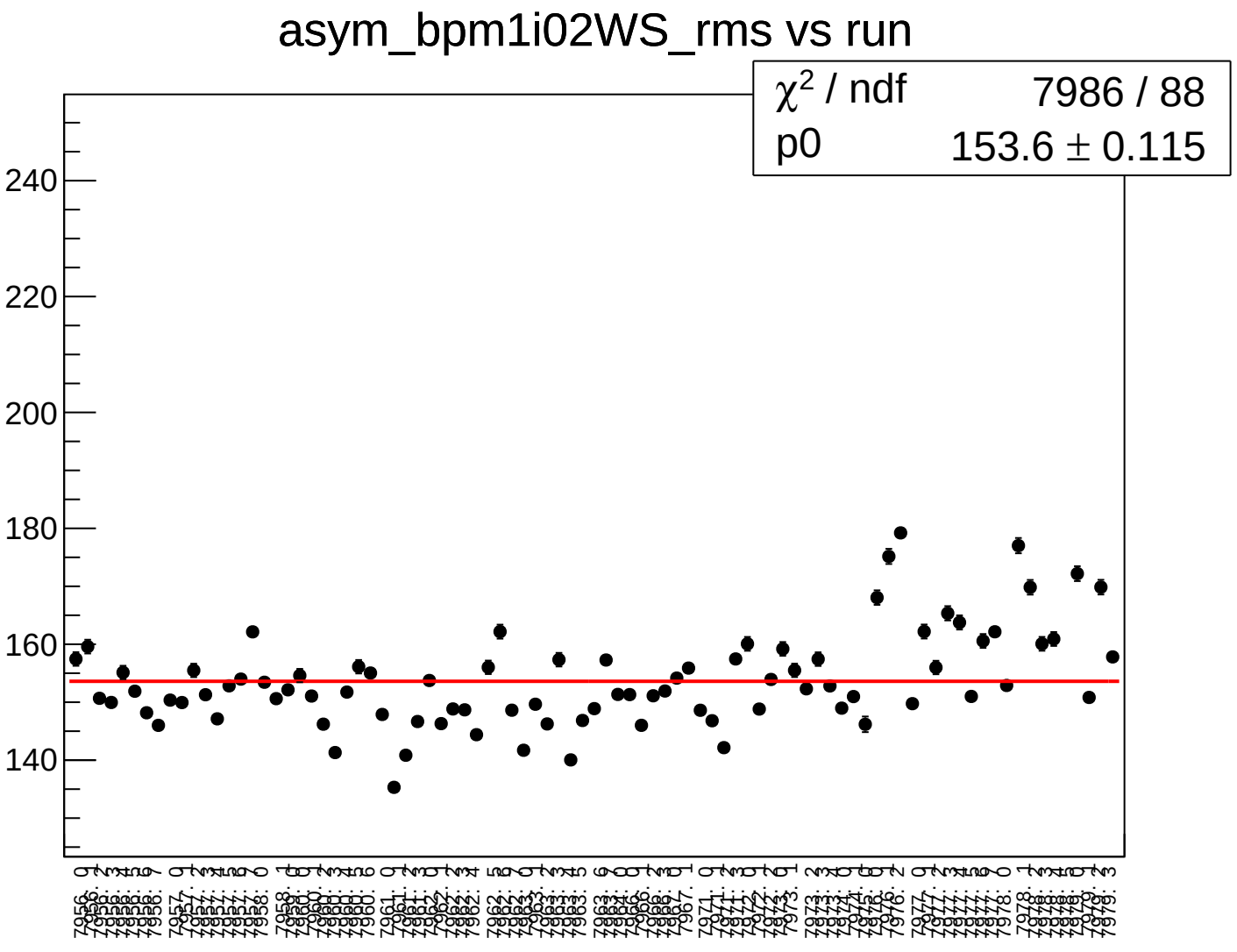

asym_bpm0i05WS_rms vs run
$\chi^2$ / ndf 9761 / 88
p0 193.6 ± 0.1451
380
360
340
320
300
280
260
240
220
200
180
160

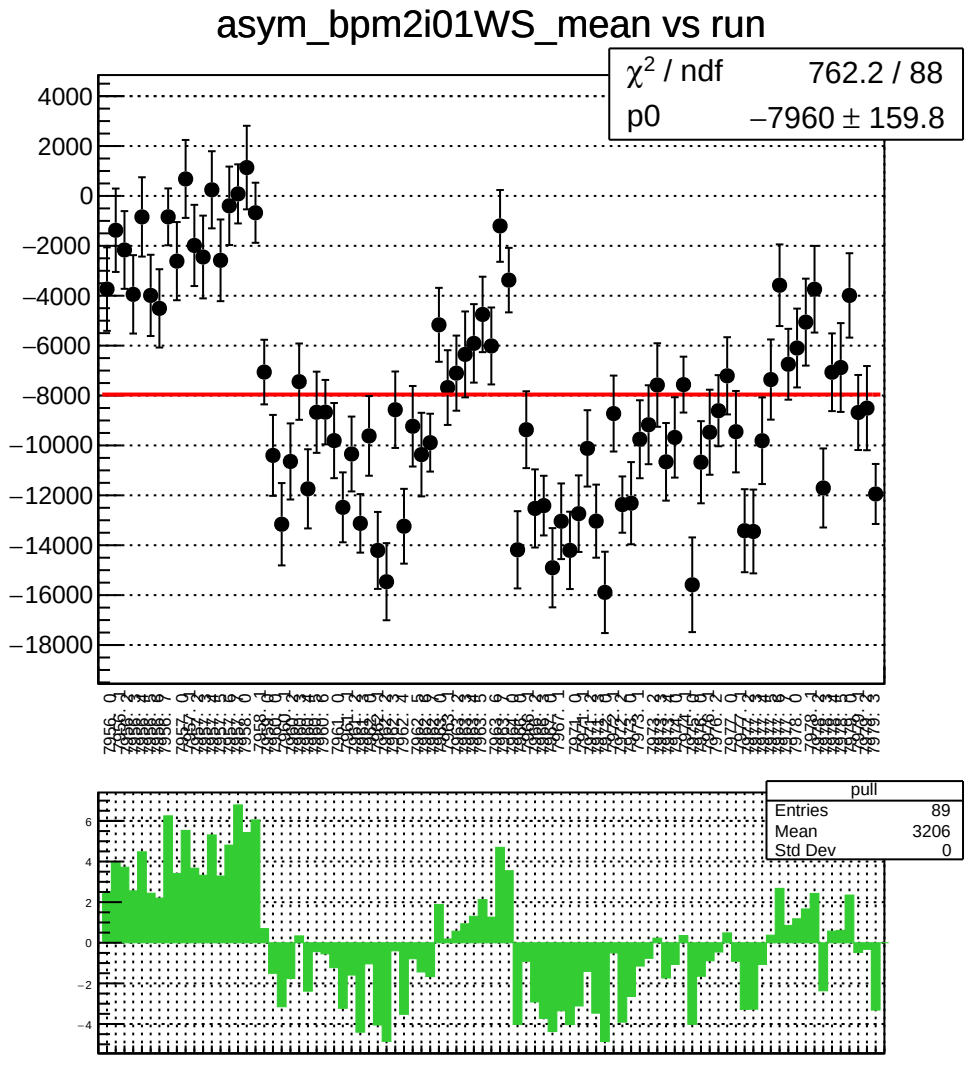

asym_bpm0i07WS_mean vs run
χ² / ndf 94.71 / 88
p0 2191 ± 1644
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 304.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

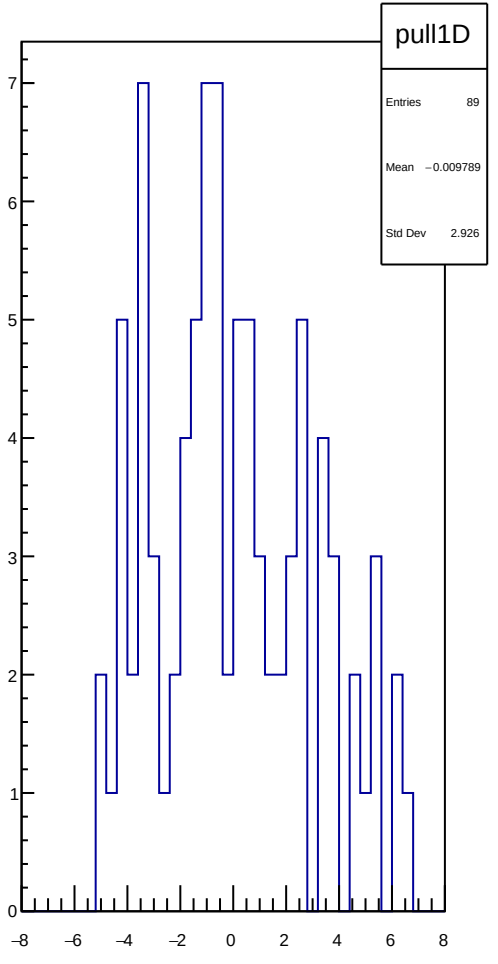

pull1D
Entries 89
Mean −0.009805
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

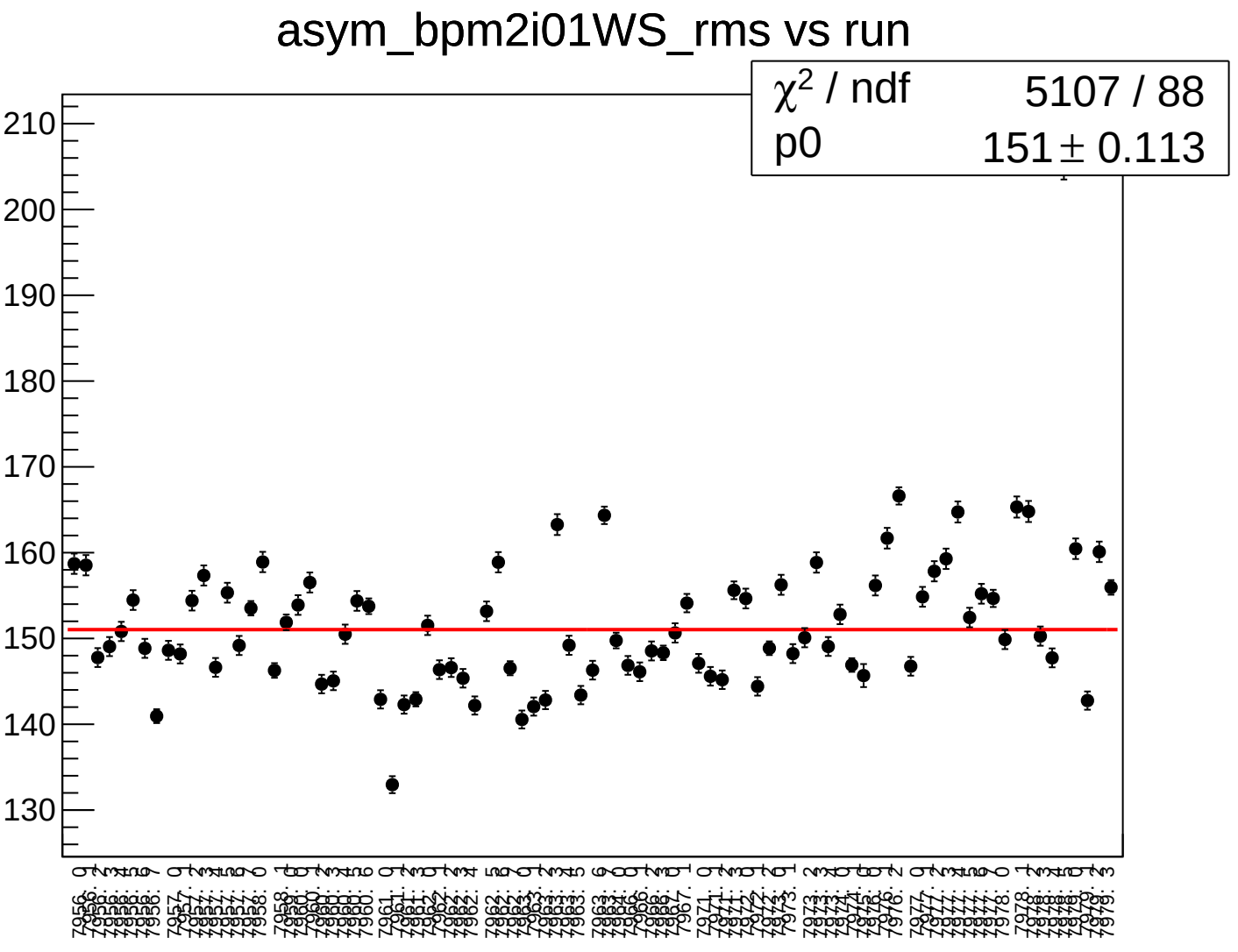

asym_bpm0i07WS_rms vs run
χ² / ndf 6404 / 88
p0 1553 ± 1.163
1900
1800
1700
1600
1500
1400
1300

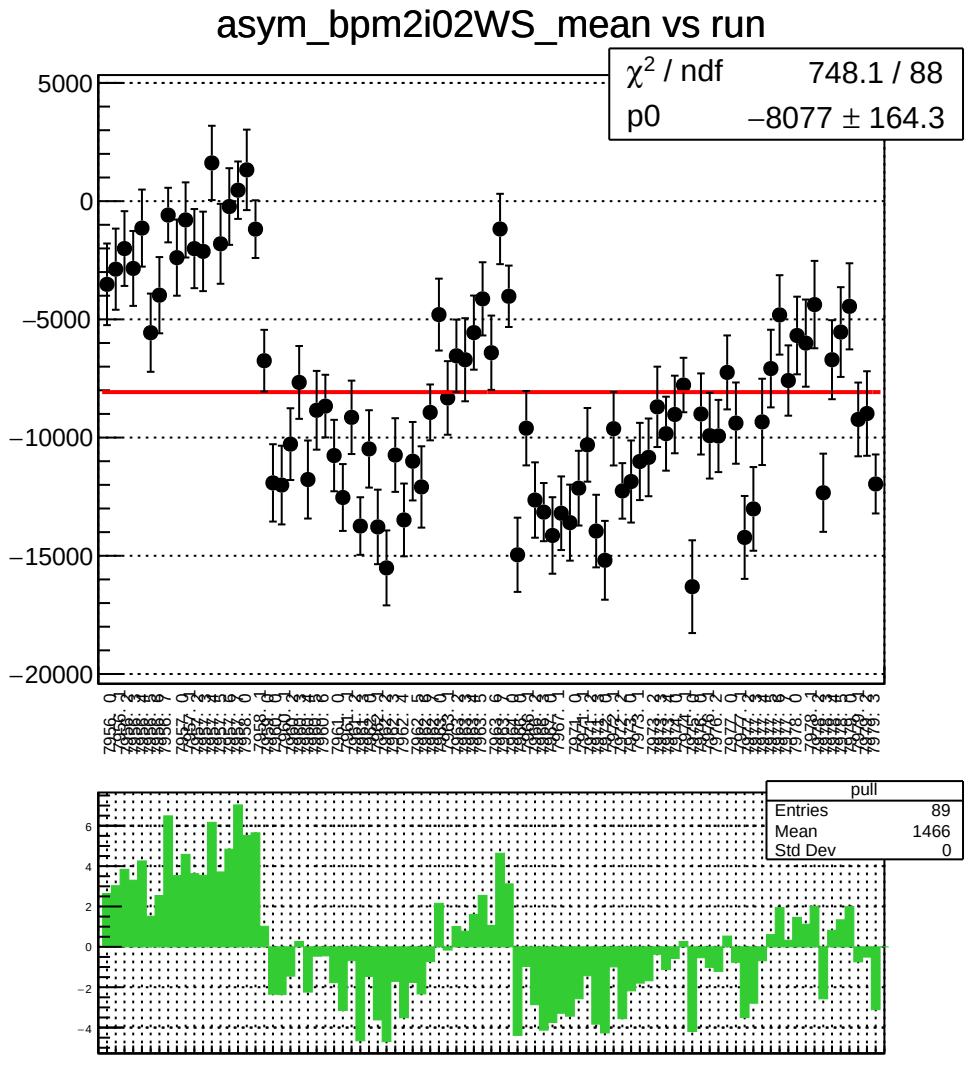

asym_bpm1i02WS_mean vs run
χ² / ndf 761 / 88
p0 −8235 ± 162.7
pull
Entries 89
Mean 5723
Std Dev 0
pull1D
Entries 89
Mean −0.00496
Std Dev 2.924

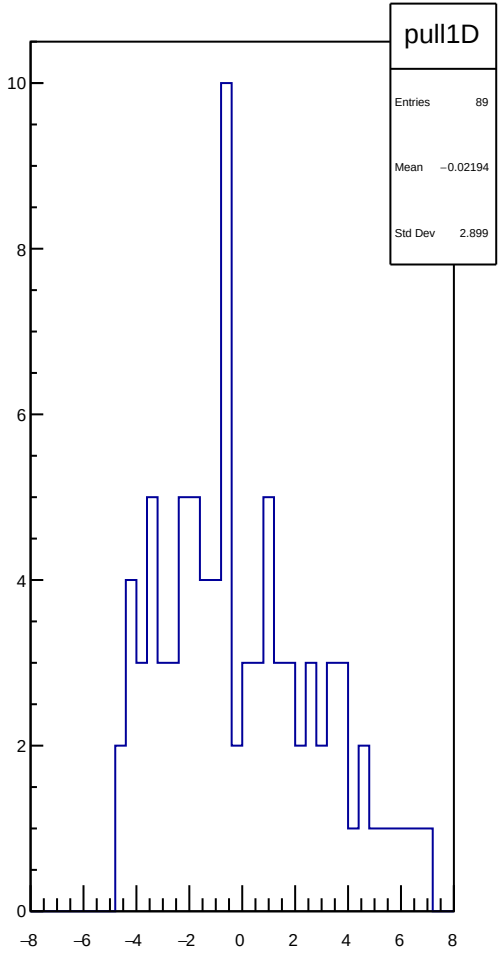

asym_bpm1i02WS_rms vs run
$\chi^2$ / ndf 7986 / 88
p0 153.6 ± 0.115
240
220
200
180
160
140

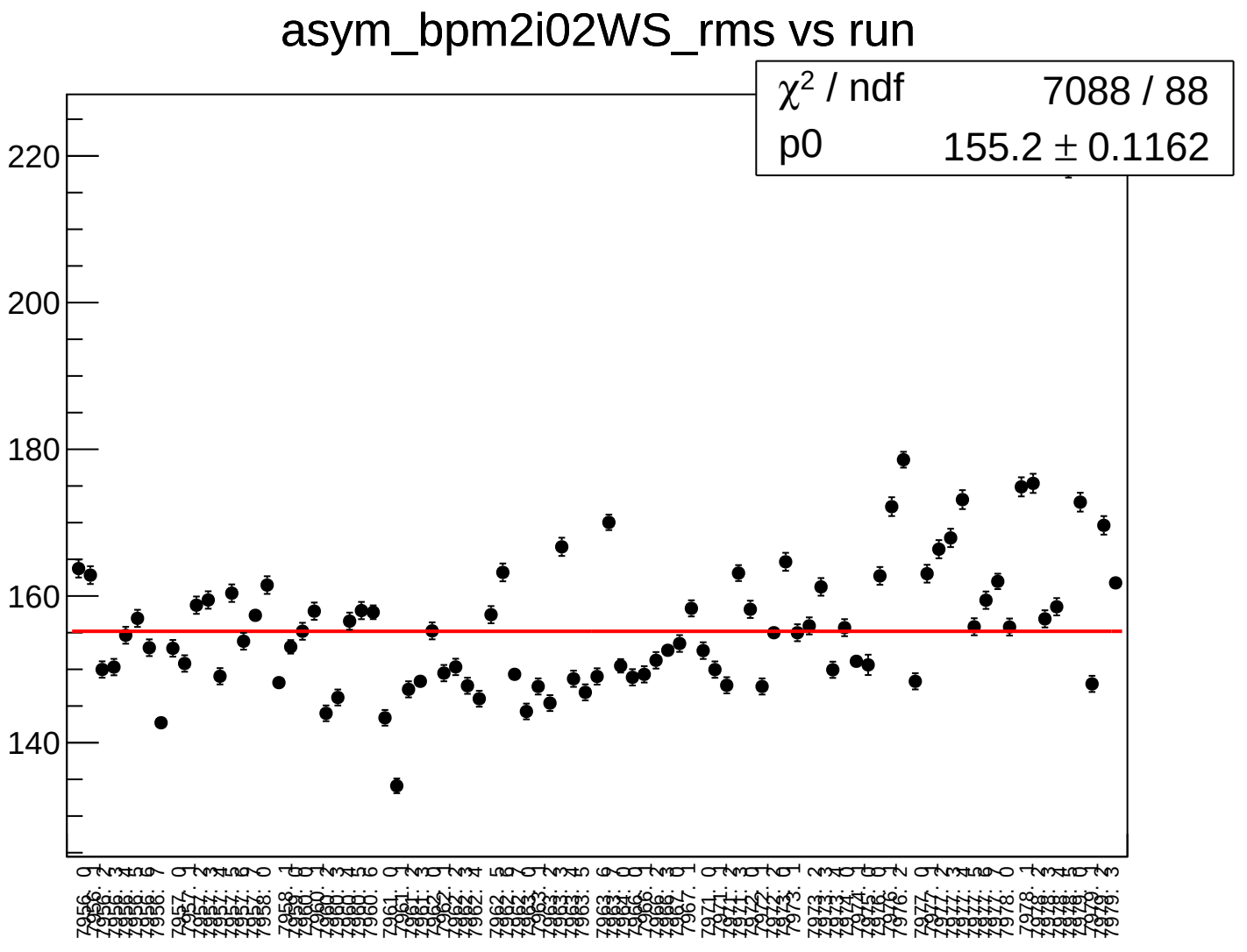

asym_bpm2i01WS_mean vs run
χ² / ndf 762.2 / 88
p0 −7960 ± 159.8
pull
Entries 89
Mean 3206
Std Dev 0

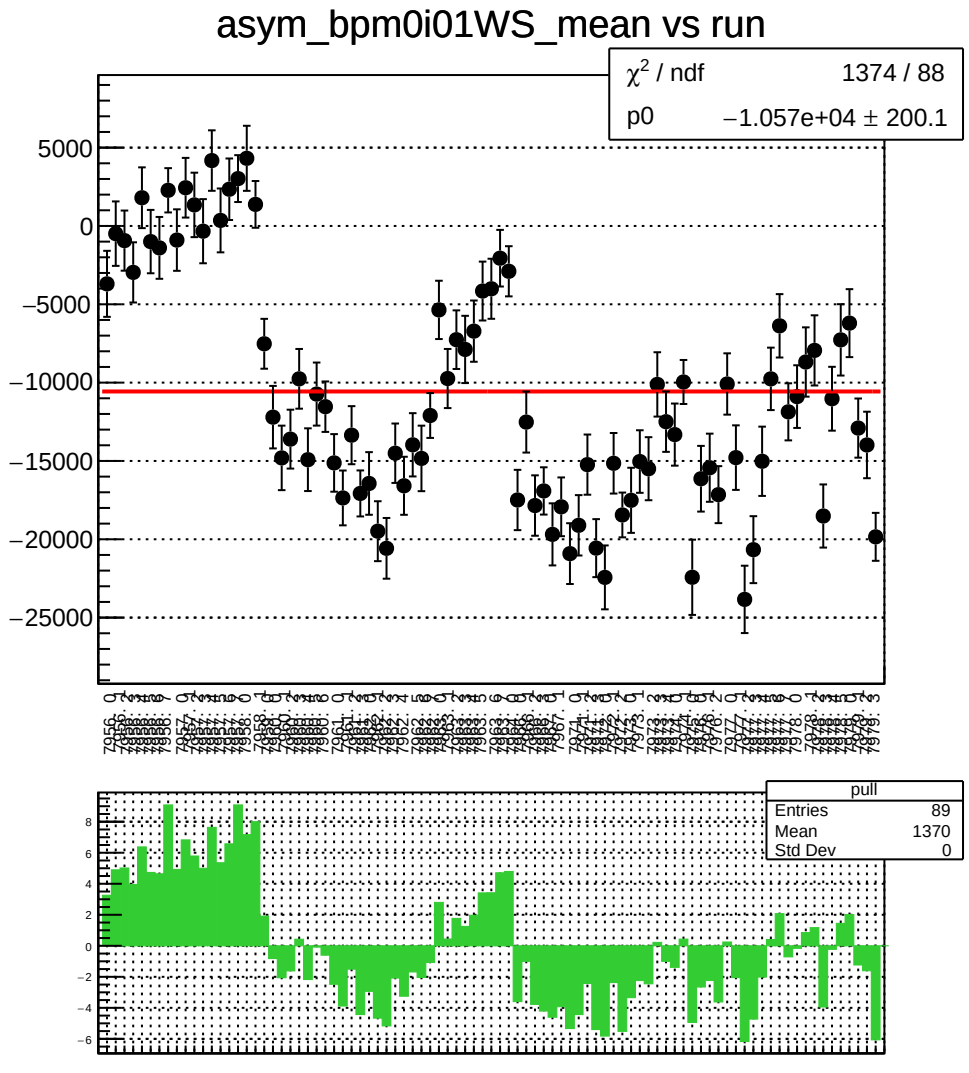

pull1D
Entries 89
Mean −0.009789
Std Dev 2.926

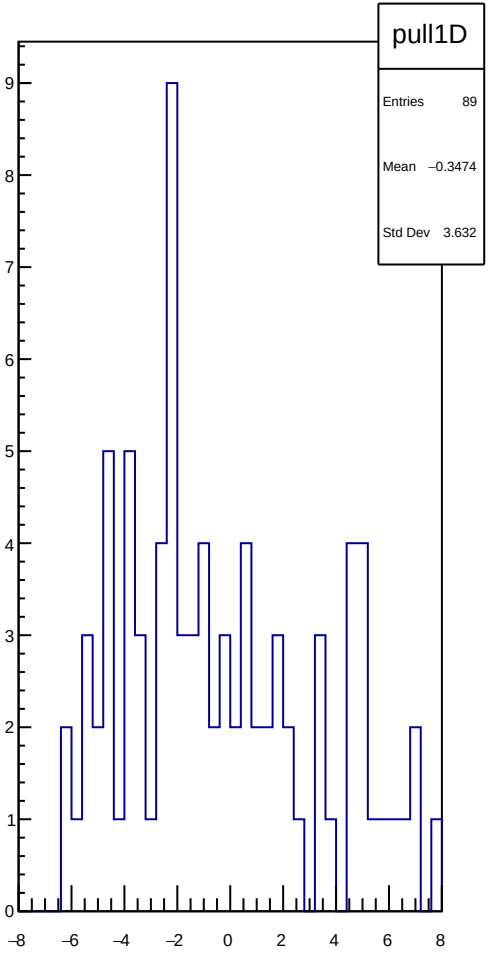

asym_bpm2i01WS_rms vs run
$\chi^2$ / ndf 5107 / 88
p0 151 ± 0.113
210
200
190
180
170
160
150
140
130

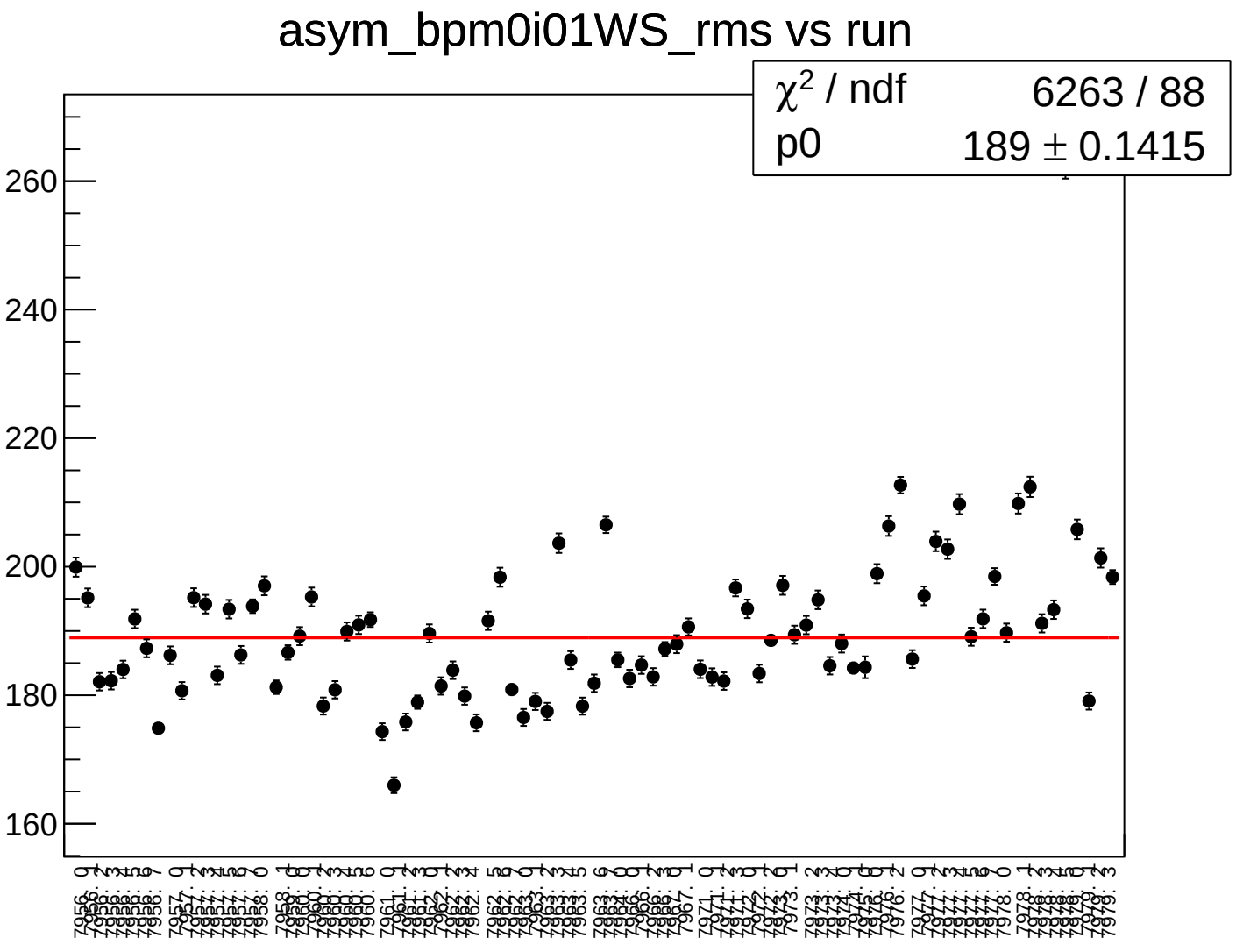

asym_bpm2i02WS_mean vs run
χ² / ndf 748.1 / 88
p0 −8077 ± 164.3
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 1466
Std Dev 0
6
4
2
0
−2
−4

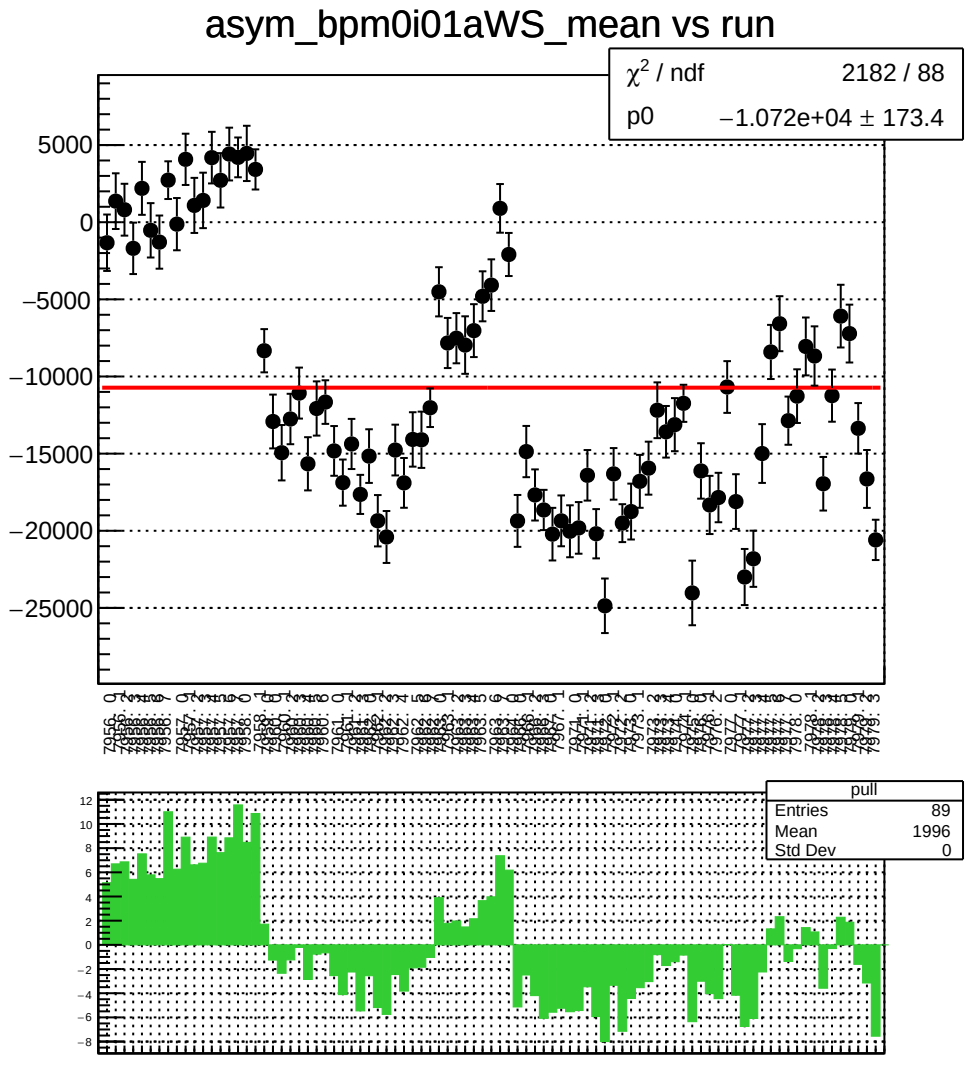

pull1D
Entries 89
Mean −0.02194
Std Dev 2.899
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

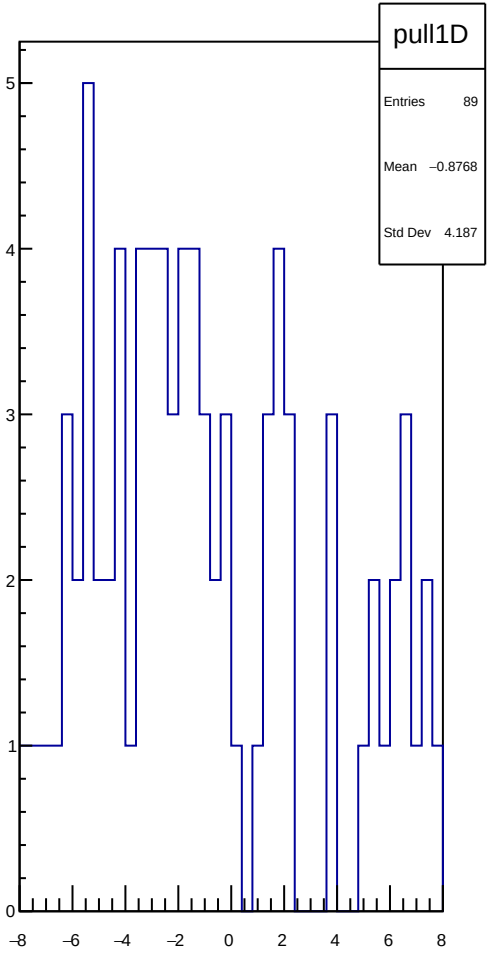

asym_bpm2i02WS_rms vs run
$\chi^2$ / ndf 7088 / 88
p0 155.2 ± 0.1162
220
200
180
160
140

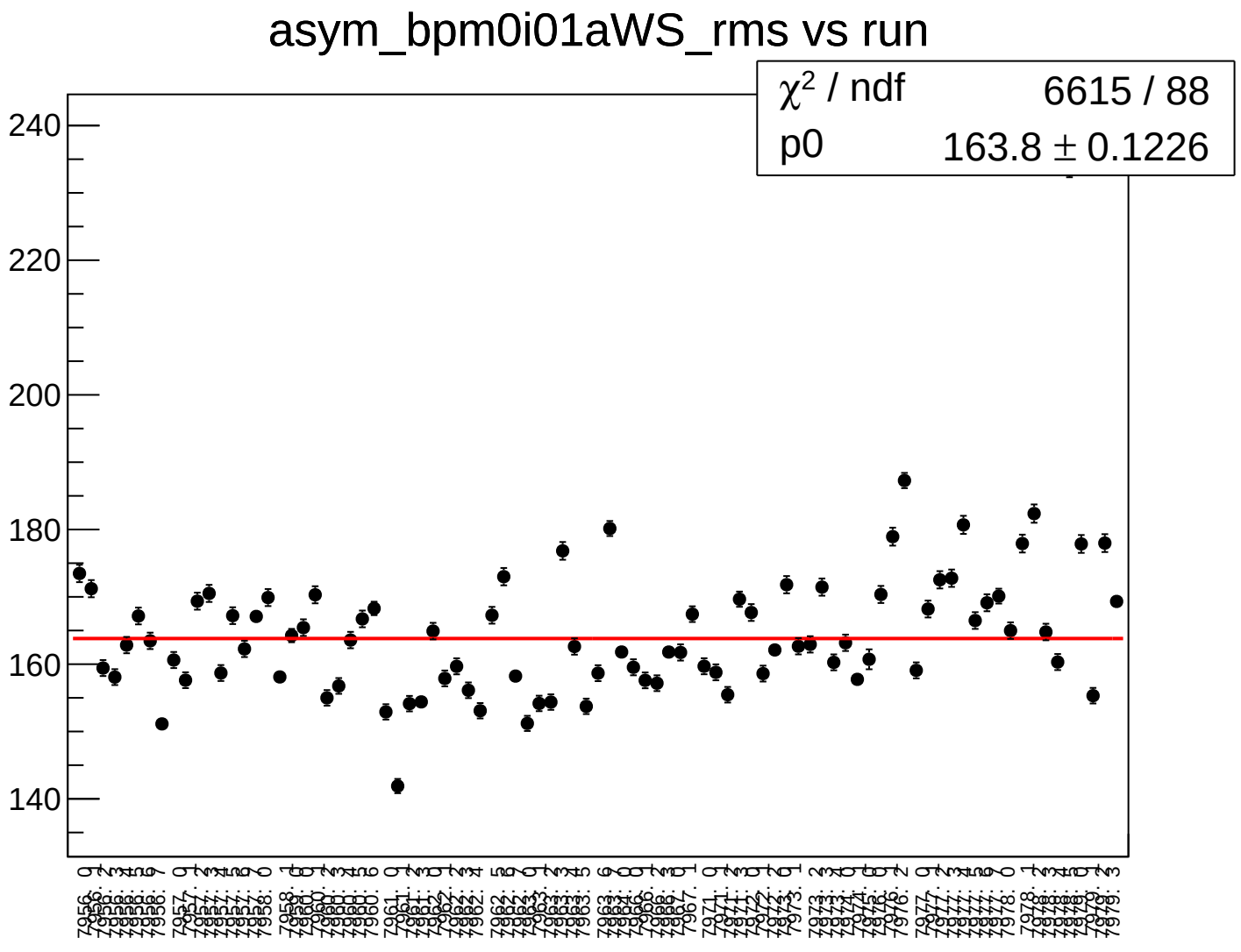

asym_bpm0i01WS_mean vs run
χ² / ndf 1374 / 88
p0 −1.057e+04 ± 200.1
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 89
Mean 1370
Std Dev 0
8
6
4
2
0
−2
−4
−6

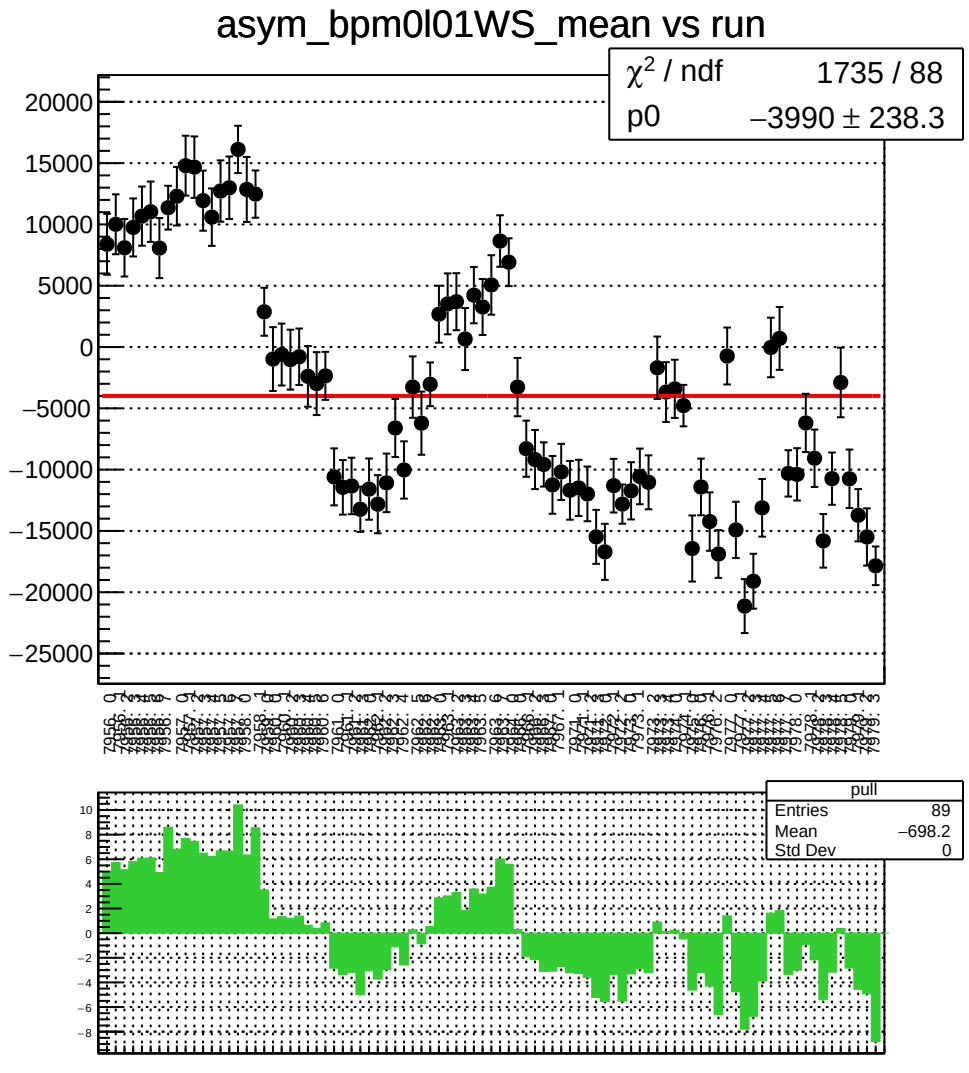

pull1D
Entries 89
Mean −0.3474
Std Dev 3.632
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

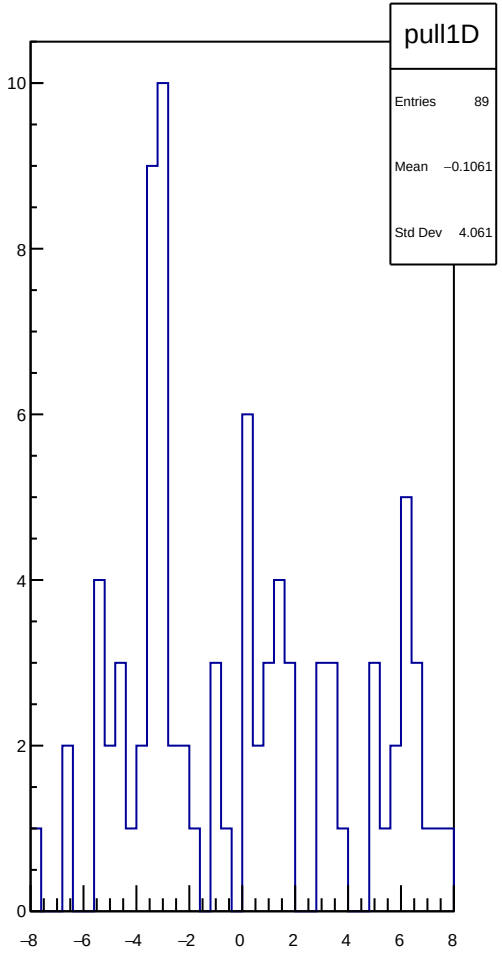

asym_bpm0i01WS_rms vs run
$\chi^2$ / ndf 6263 / 88
p0 189 ± 0.1415
260
240
220
200
180
160

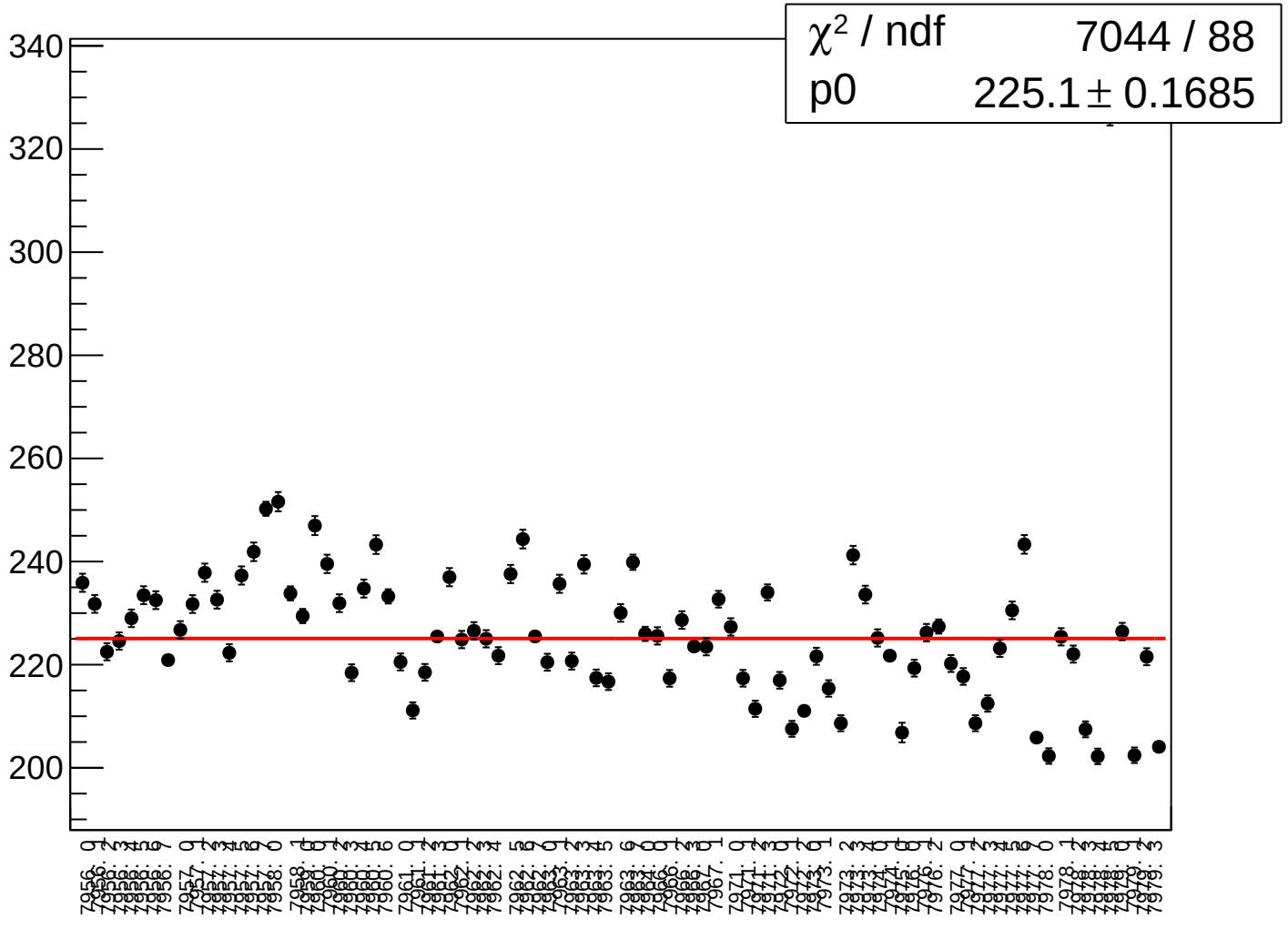

asym_bpm0i01aWS_mean vs run
χ² / ndf 2182 / 88
p0 −1.072e+04 ± 173.4
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 89
Mean 1996
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
−8

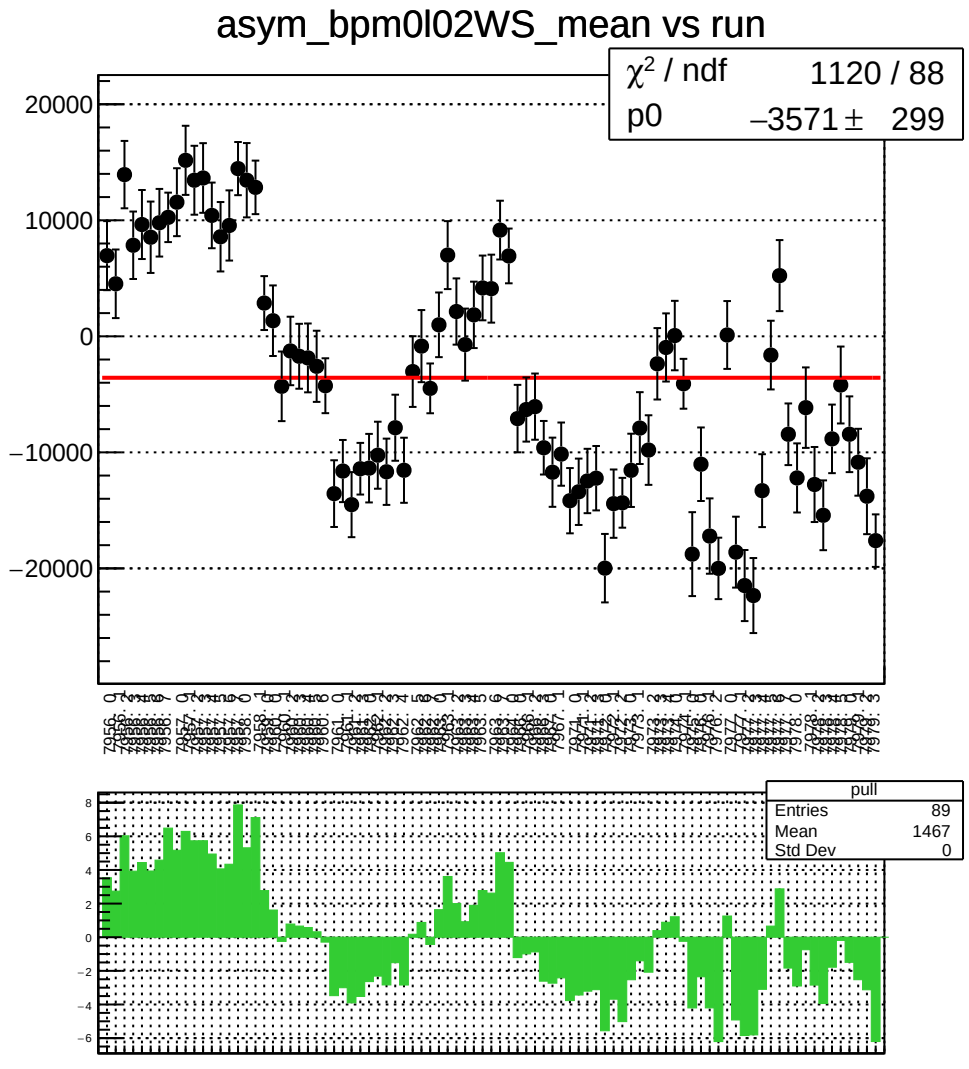

pull1D
Entries 89
Mean −0.8768
Std Dev 4.187
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

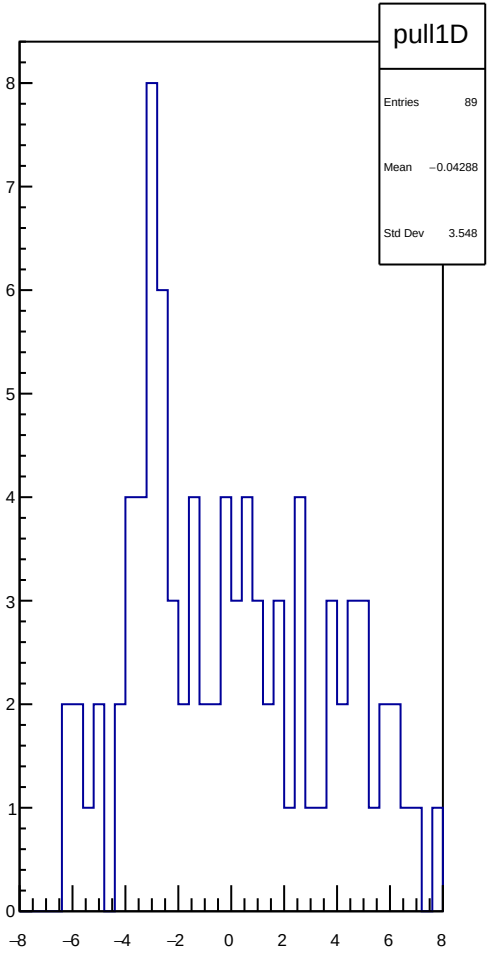

asym_bpm0i01aWS_rms vs run
χ² / ndf 6615 / 88
p0 163.8 ± 0.1226
240
220
200
180
160
140

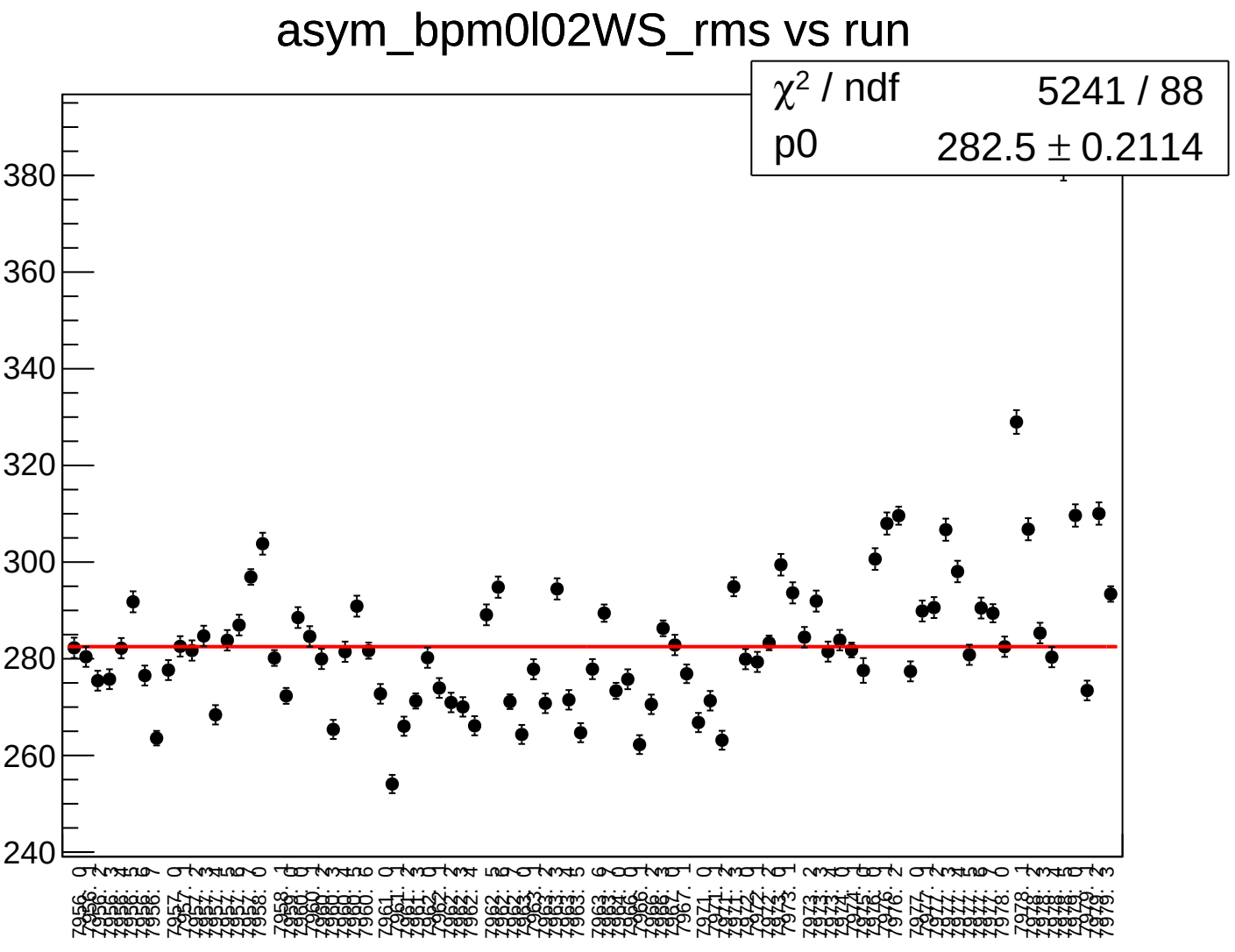

asym_bpm0l01WS_mean vs run
χ² / ndf 1735 / 88
p0 −3990 ± 238.3
pull
Entries 89
Mean −698.2
Std Dev 0

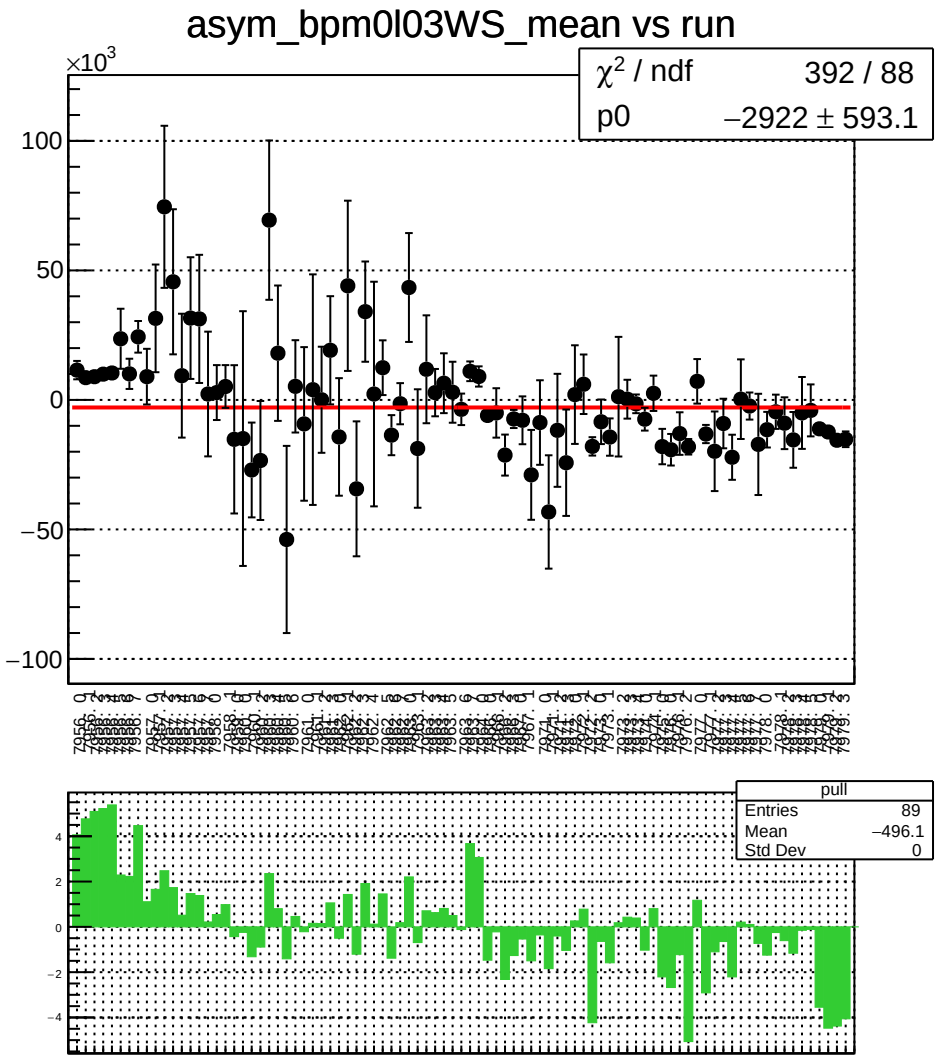

pull1D
Entries 89
Mean −0.1061
Std Dev 4.061

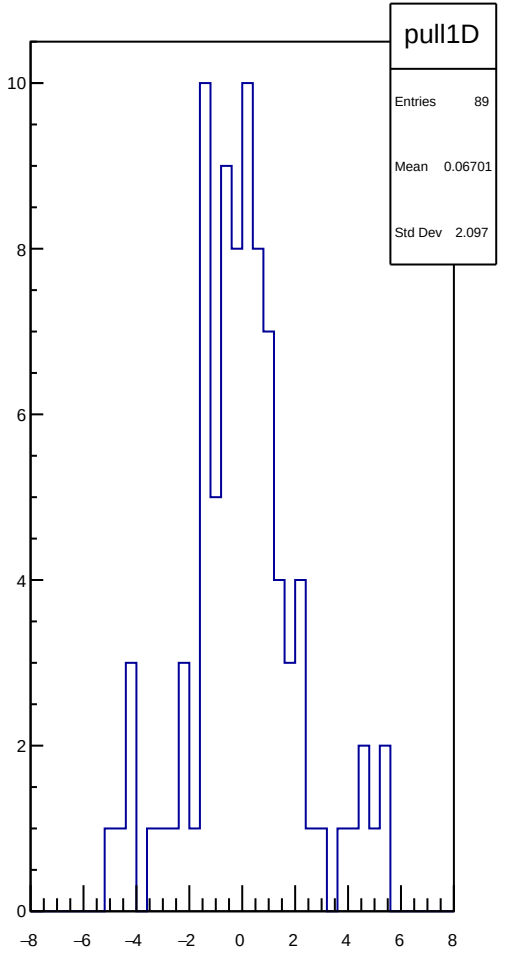

asym_bpm0l01WS_rms vs run
χ² / ndf 7044 / 88
p0 225.1 ± 0.1685
340
320
300
280
260
240
220
200

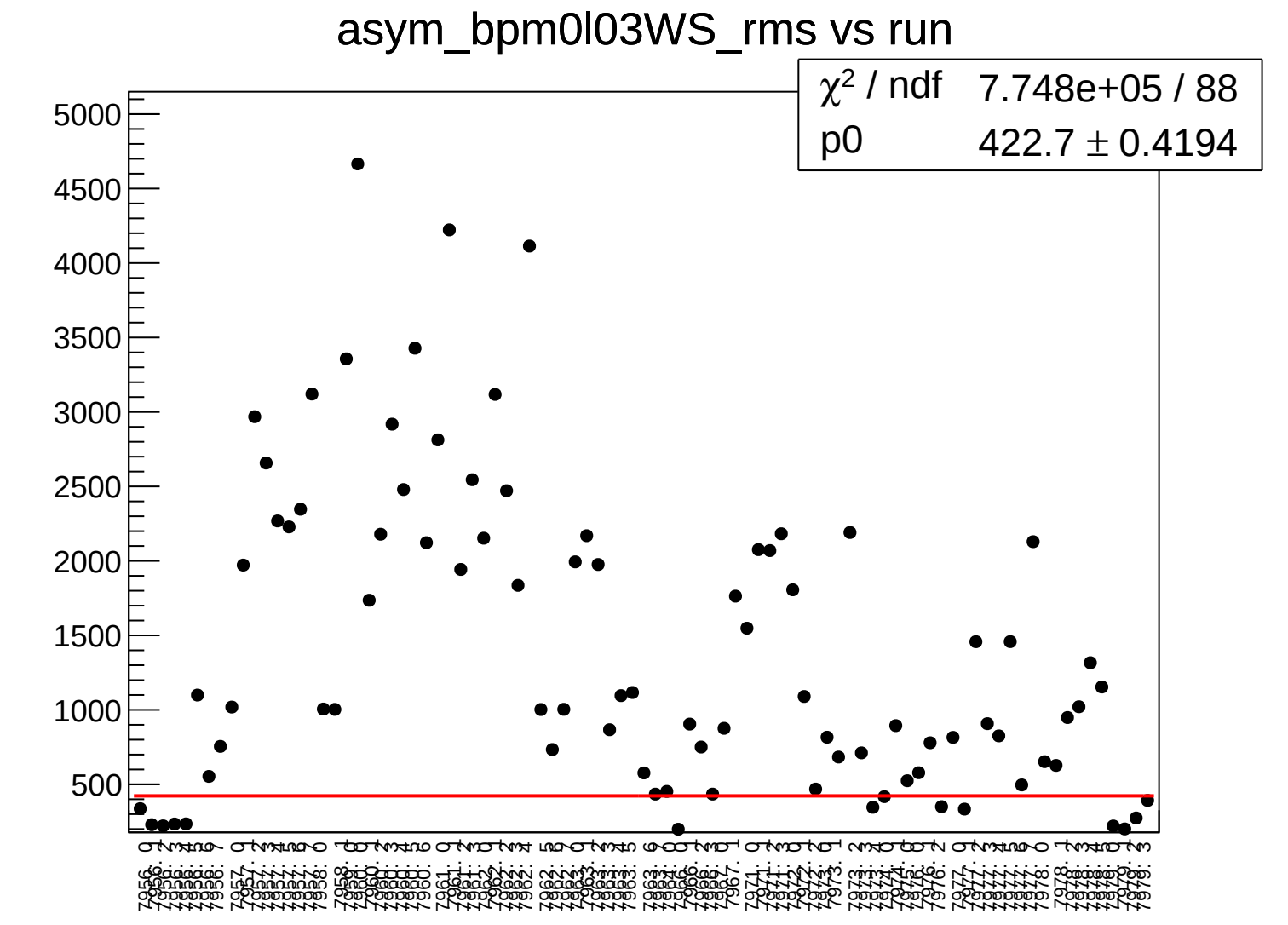

asym_bpm0l02WS_mean vs run
χ² / ndf 1120 / 88
p0 −3571 ± 299
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 1467
Std Dev 0
8
6
4
2
0
−2
−4
−6

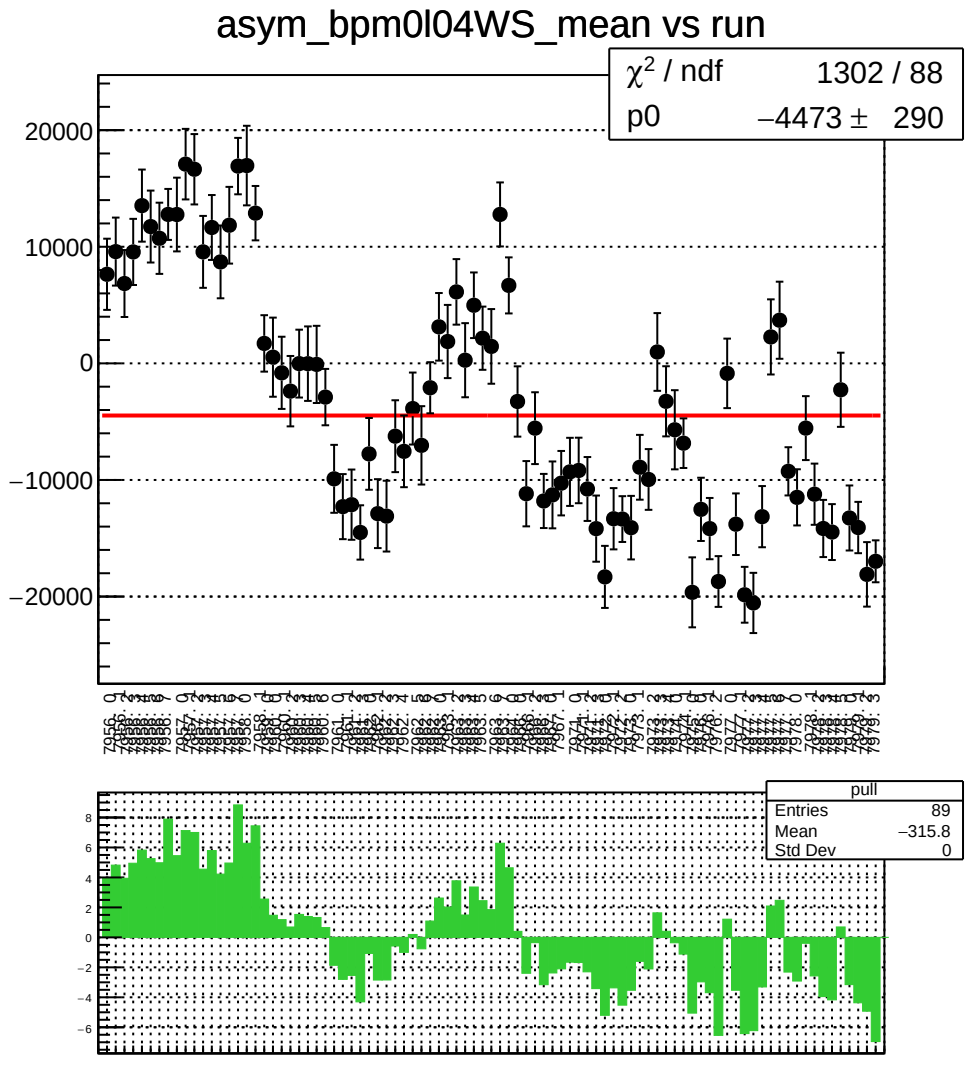

pull1D
Entries 89
Mean −0.04288
Std Dev 3.548
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

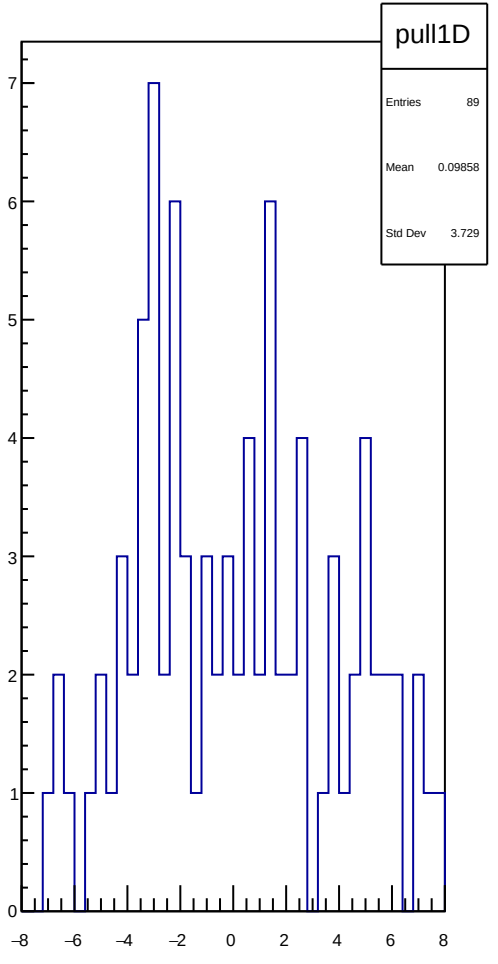

asym_bpm0l02WS_rms vs run
$\chi^2$ / ndf 5241 / 88
p0 282.5 ± 0.2114
380
360
340
320
300
280
260
240

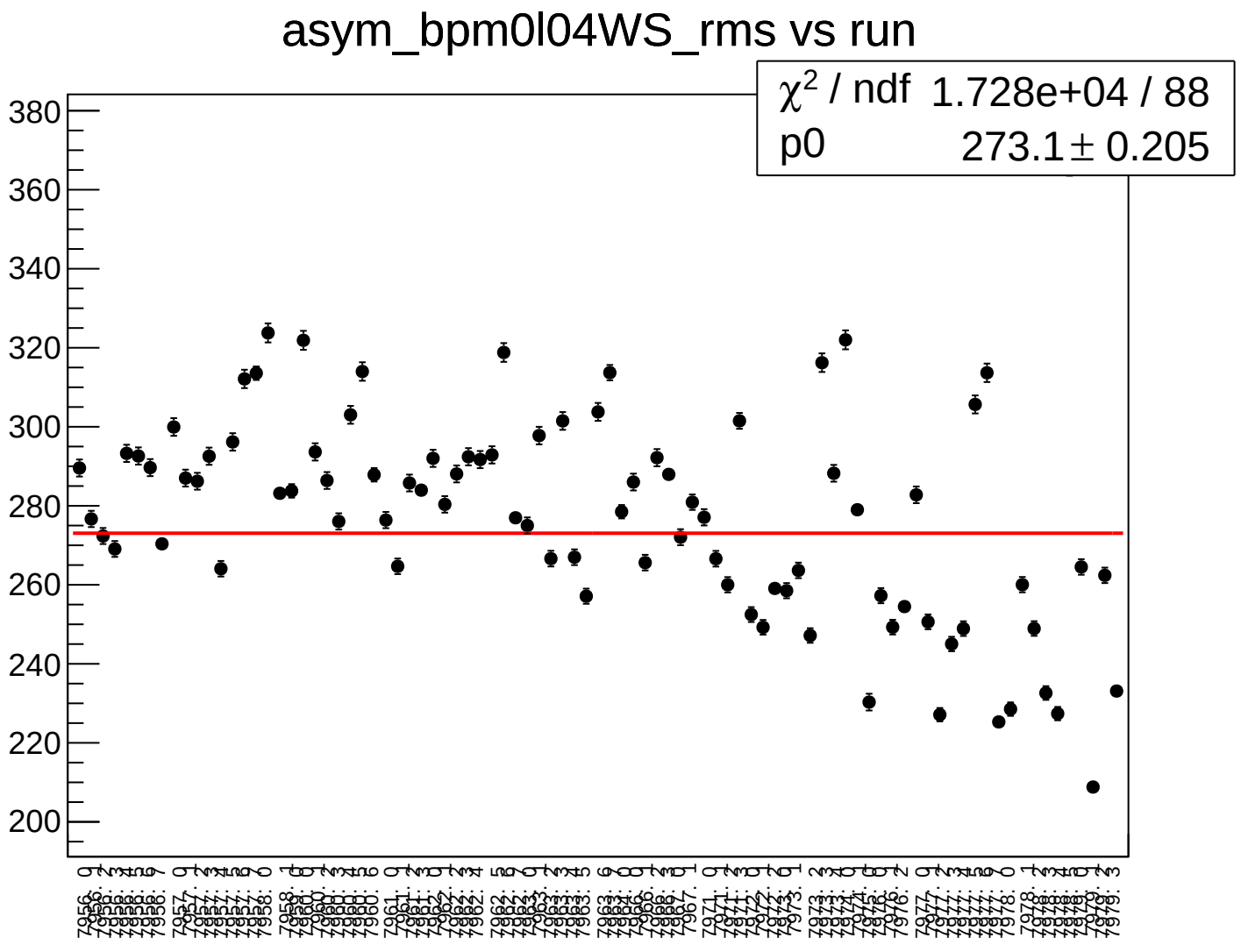

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 392 / 88
p0 −2922 ± 593.1
100
50
0
−50
−100
pull
Entries 89
Mean −496.1
Std Dev 0
4
2
0
−2
−4

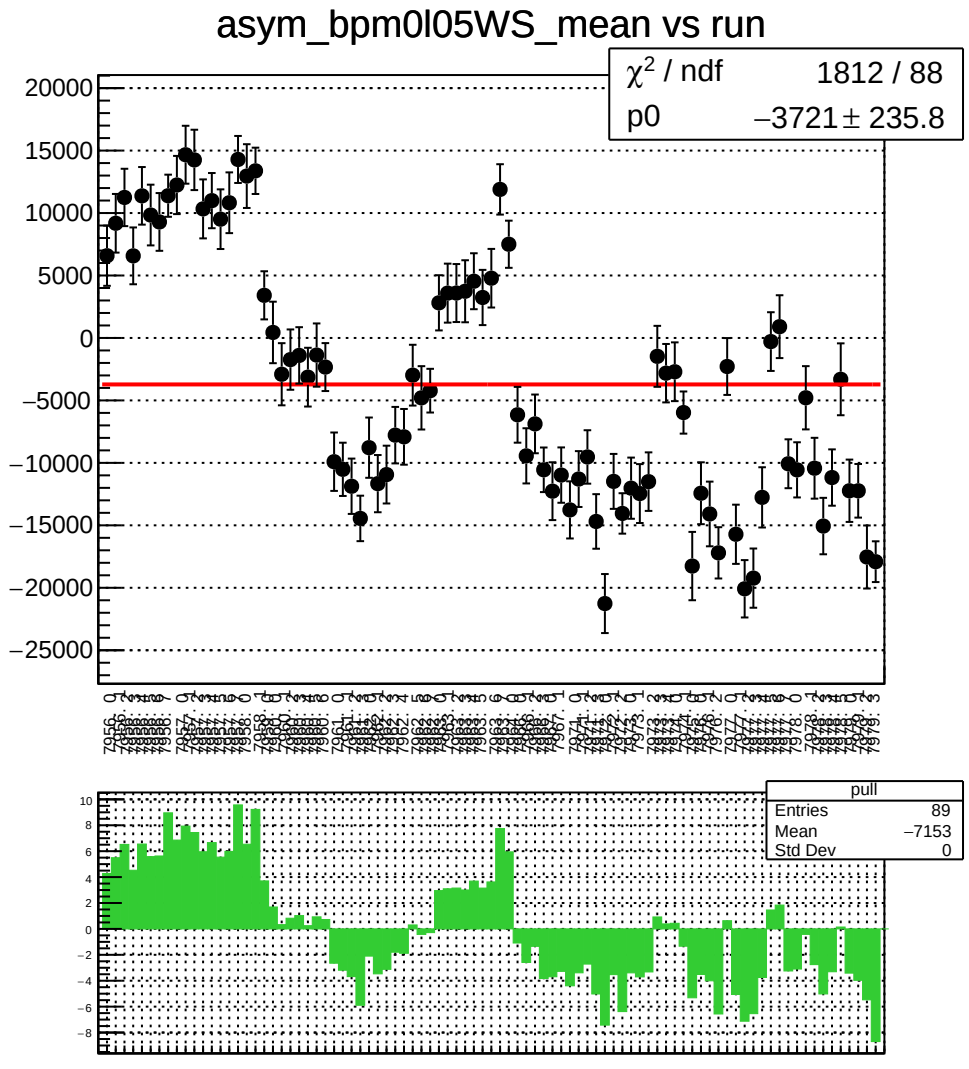

pull1D
Entries 89
Mean 0.06701
Std Dev 2.097
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

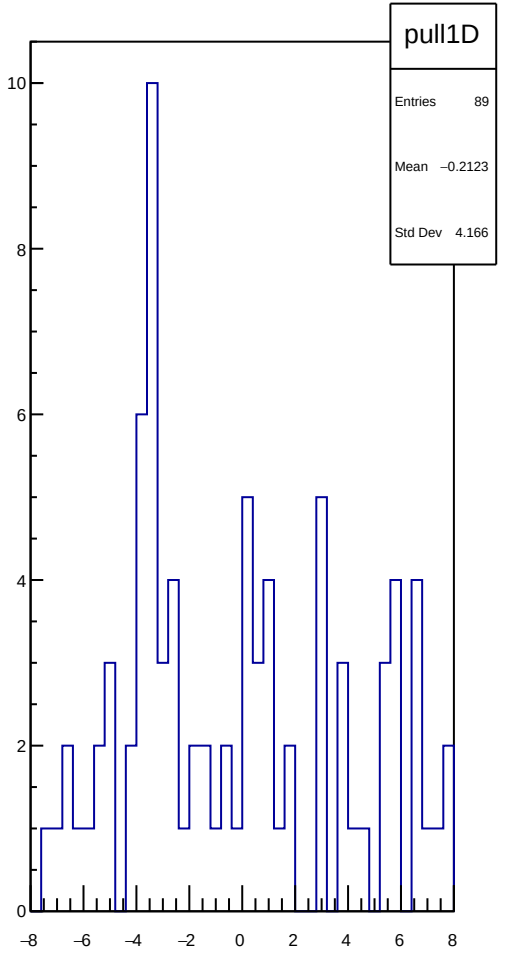

asym_bpm0l03WS_rms vs run
$\chi^2$ / ndf 7.748e+05 / 88
p0 422.7 ± 0.4194
5000
4500
4000
3500
3000
2500
2000
1500
1000
500

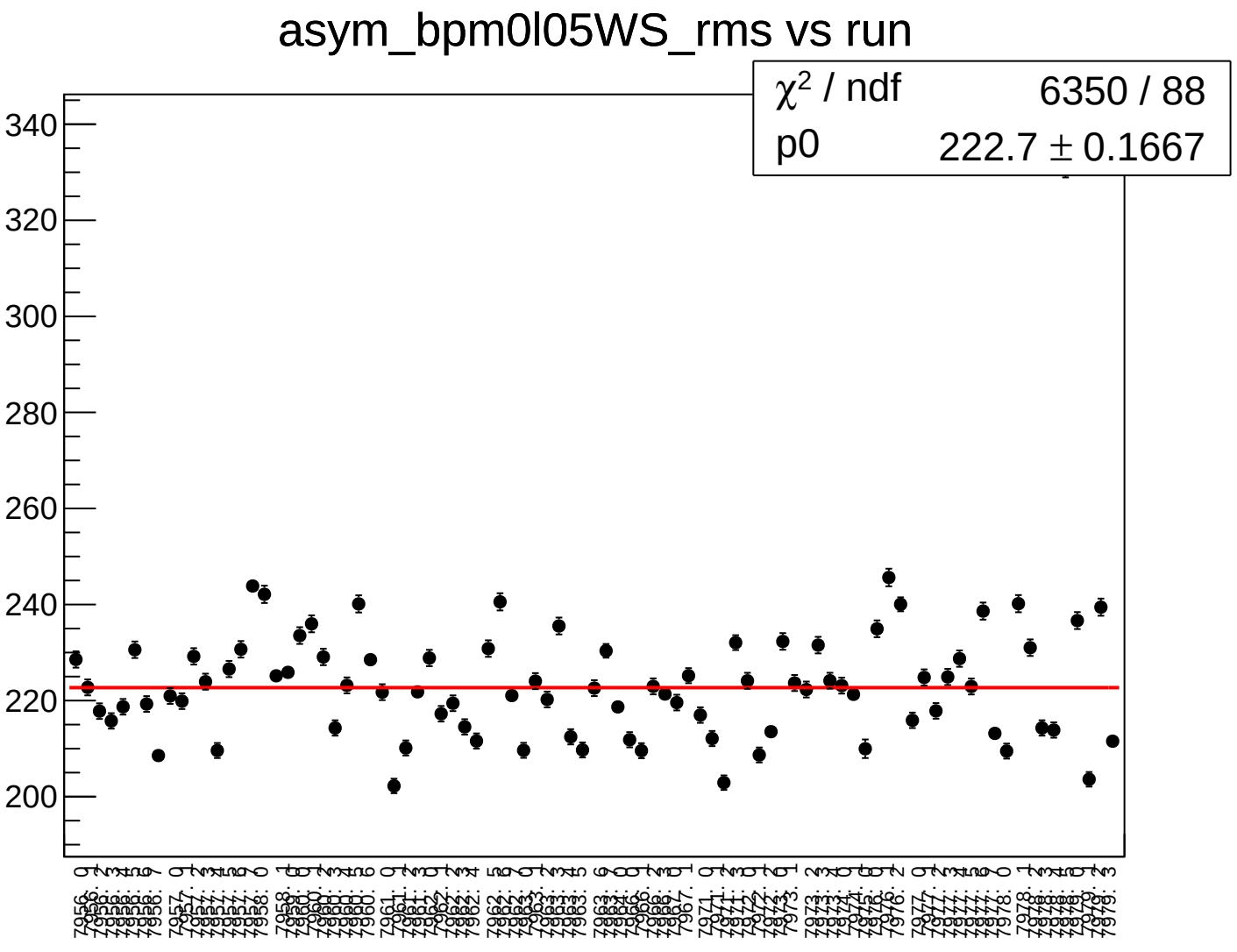

asym_bpm0l04WS_mean vs run
χ² / ndf 1302 / 88
p0 −4473 ± 290
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −315.8
Std Dev 0
8
6
4
2
0
−2
−4
−6

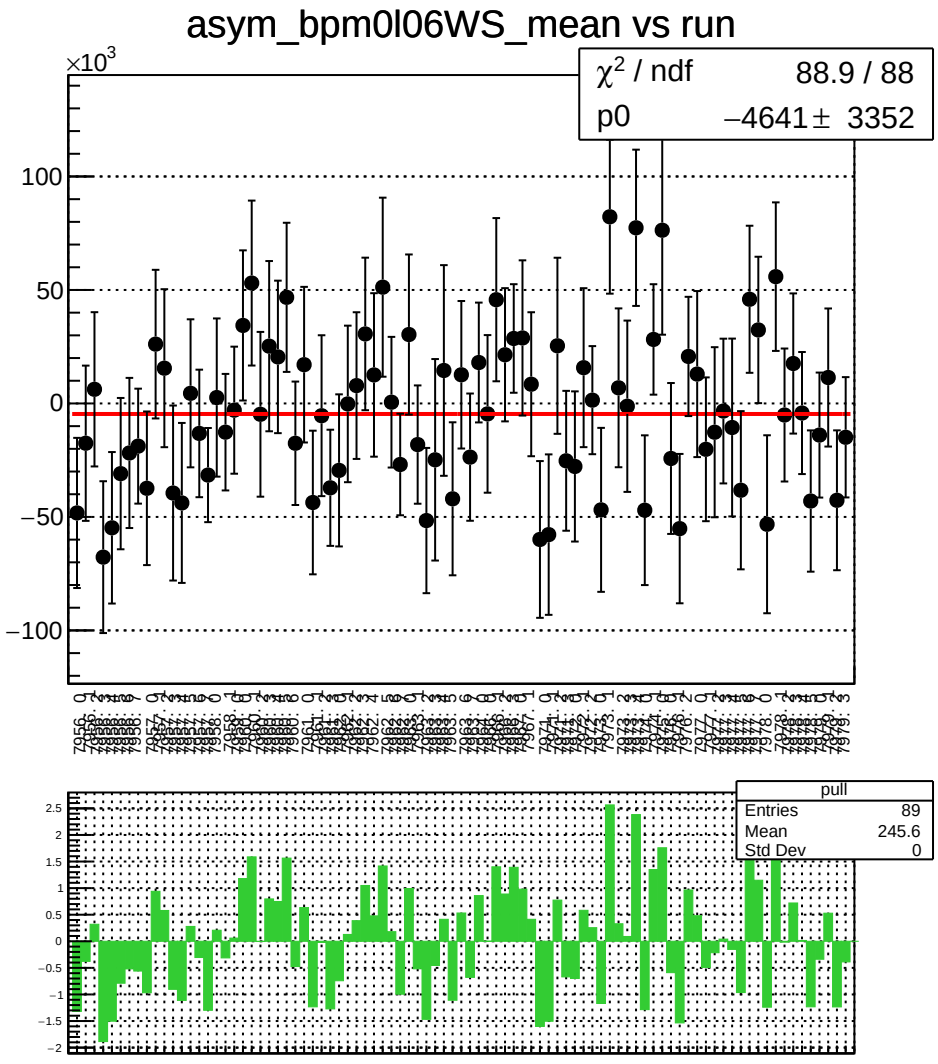

pull1D
Entries 89
Mean 0.09858
Std Dev 3.729
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

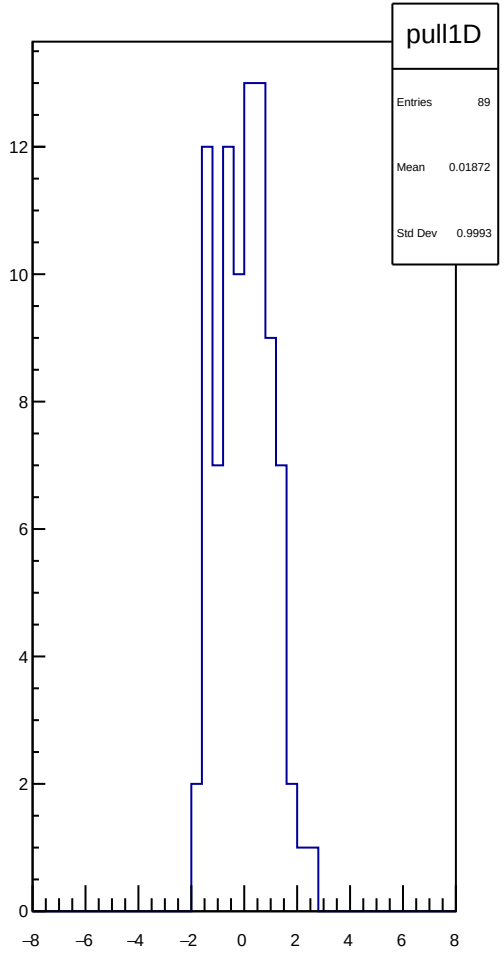

asym_bpm0l04WS_rms vs run
χ² / ndf 1.728e+04 / 88
p0 273.1 ± 0.205
380
360
340
320
300
280
260
240
220
200

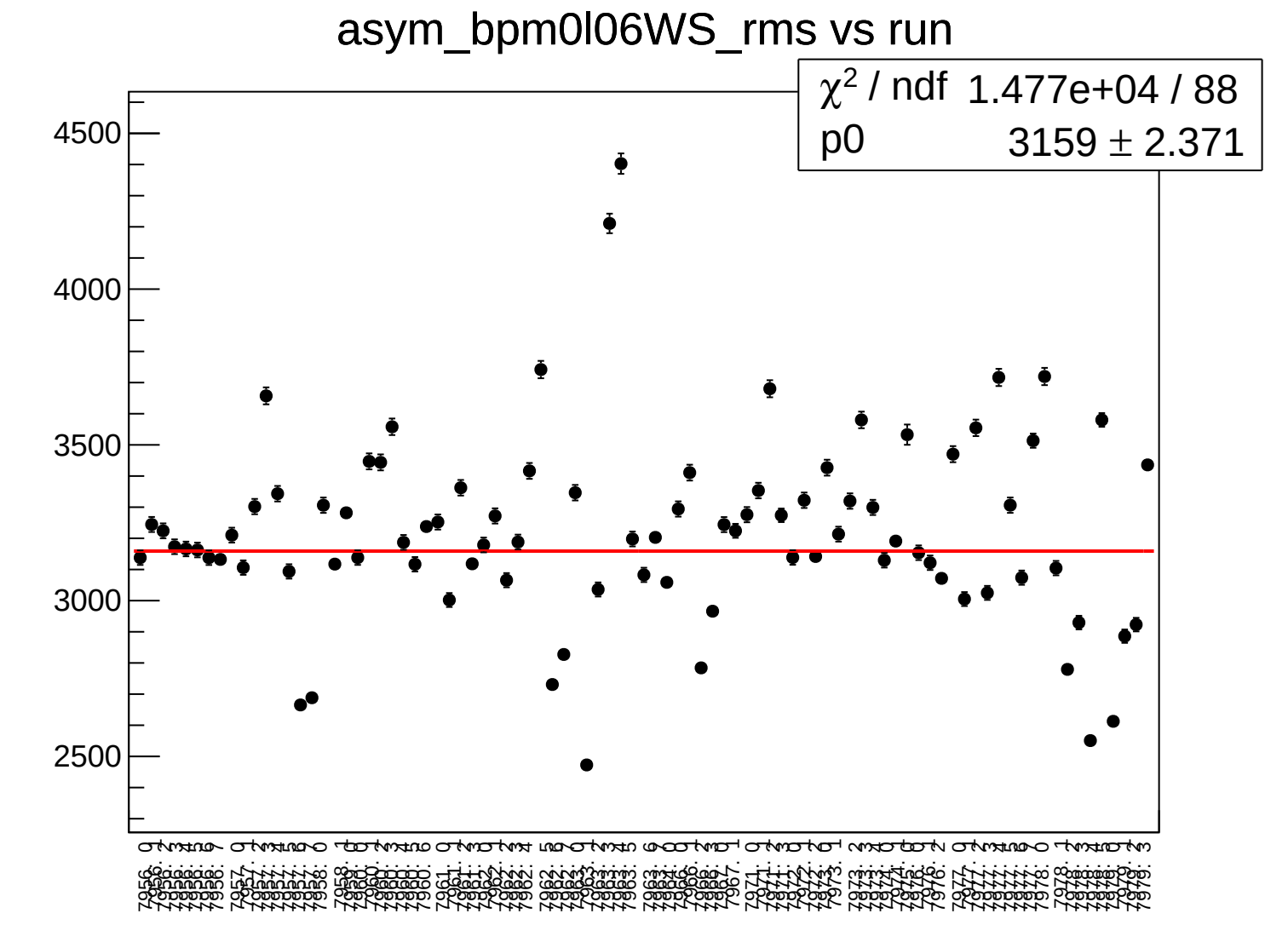

asym_bpm0l05WS_mean vs run
χ² / ndf 1812 / 88
p0 −3721 ± 235.8
pull
Entries 89
Mean −7153
Std Dev 0

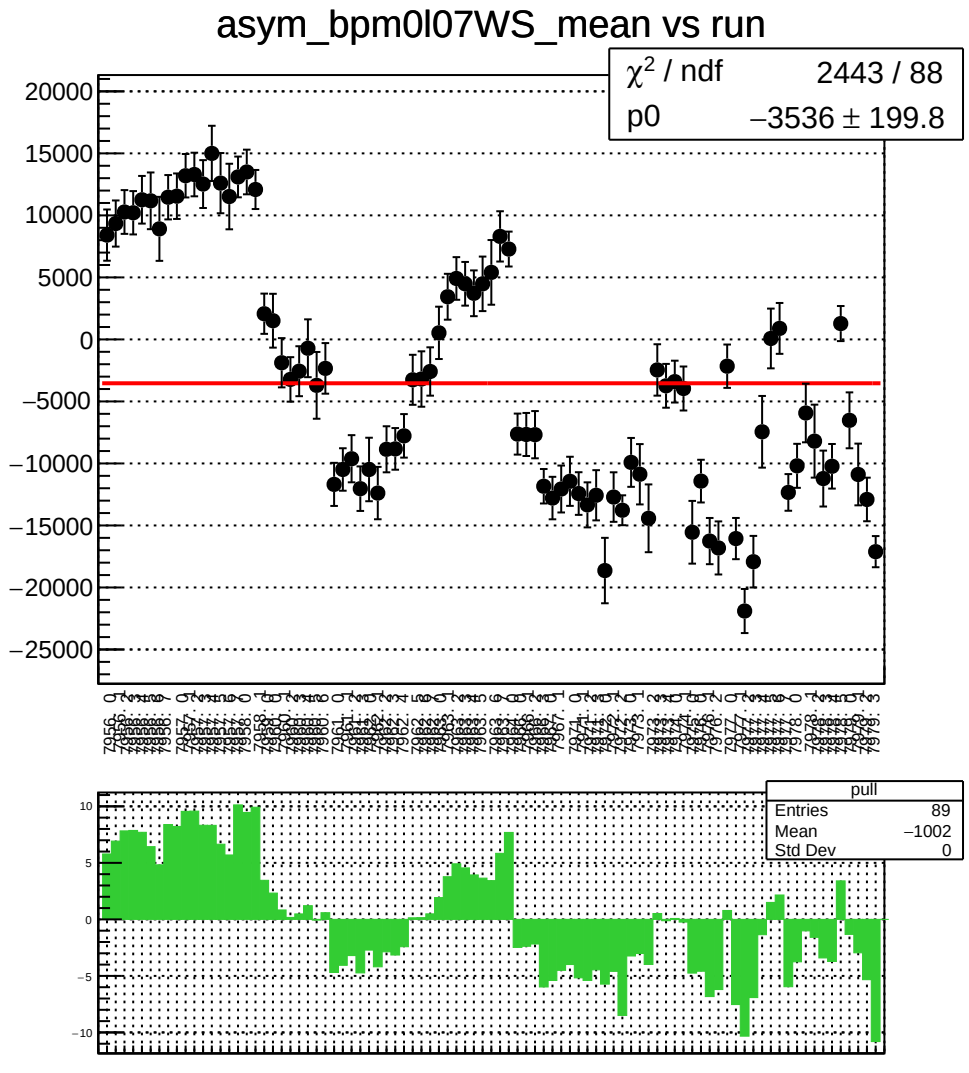

pull1D
Entries 89
Mean −0.2123
Std Dev 4.166

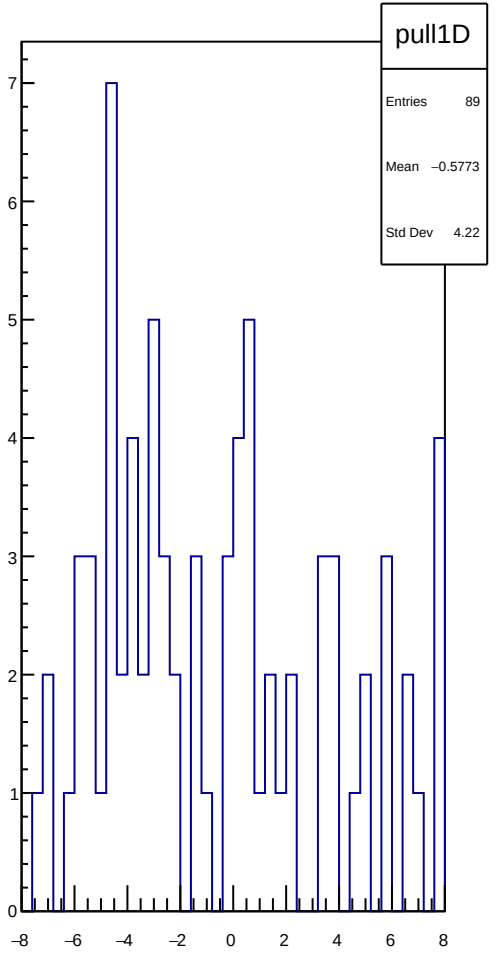

asym_bpm0l05WS_rms vs run
χ² / ndf 6350 / 88
p0 222.7 ± 0.1667
340
320
300
280
260
240
220
200

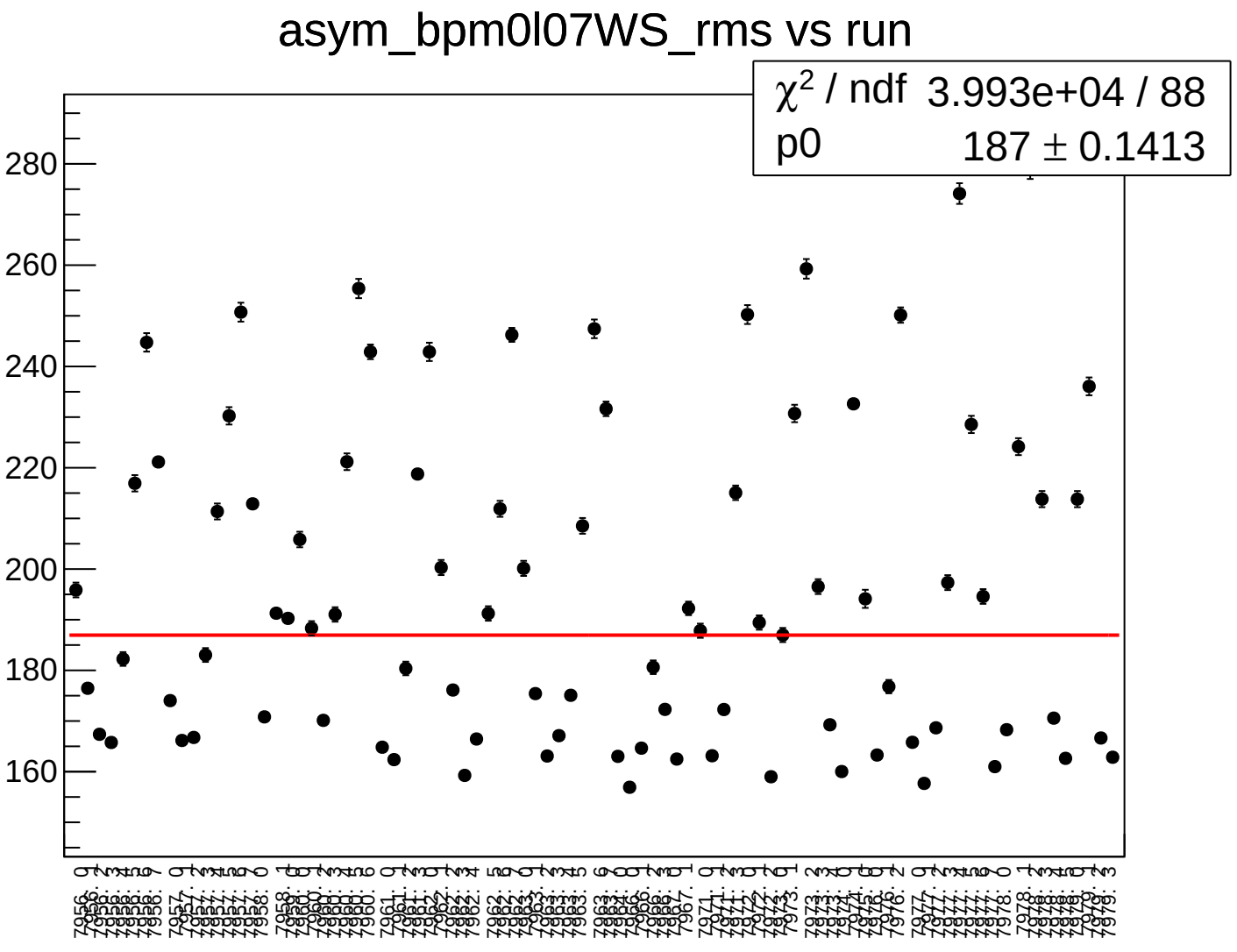

asym_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 88.9 / 88
p0 −4641 ± 3352
100
50
0
−50
−100
pull
Entries 89
Mean 245.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

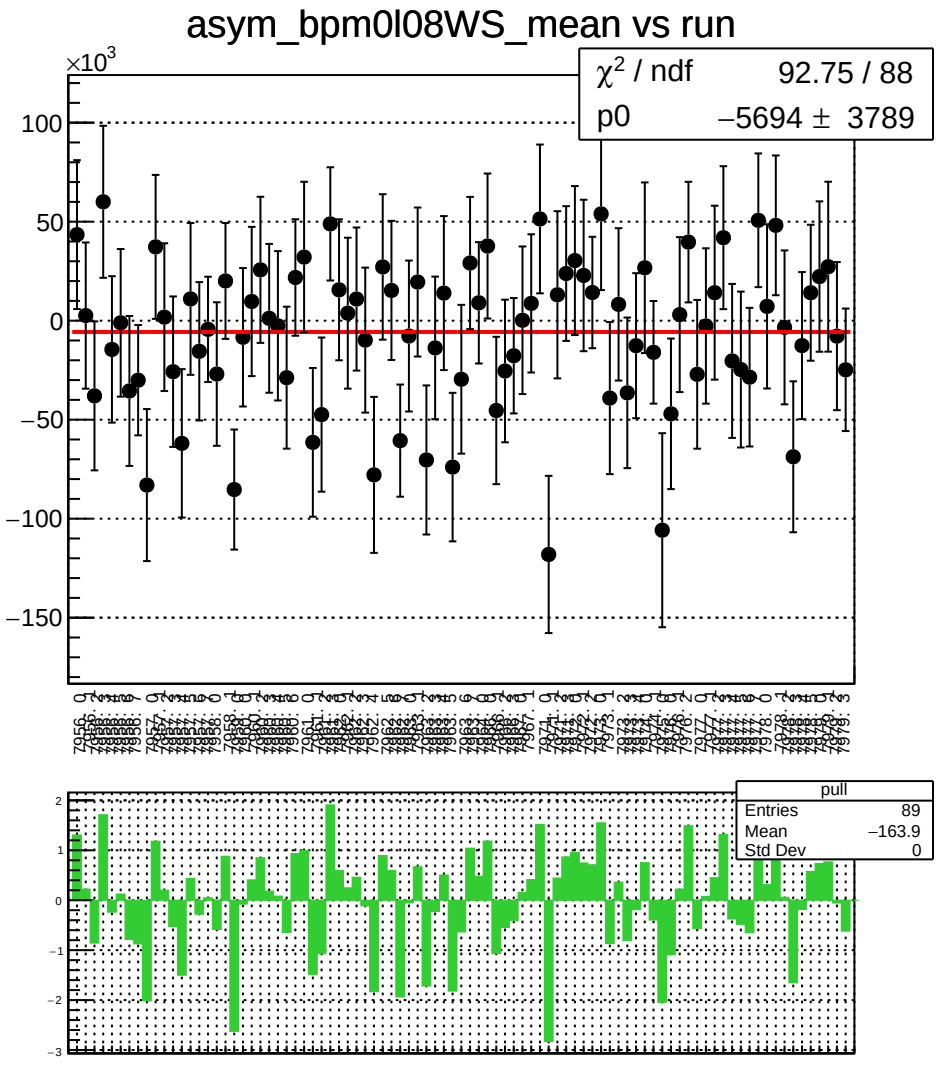

pull1D
Entries 89
Mean 0.01872
Std Dev 0.9993
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

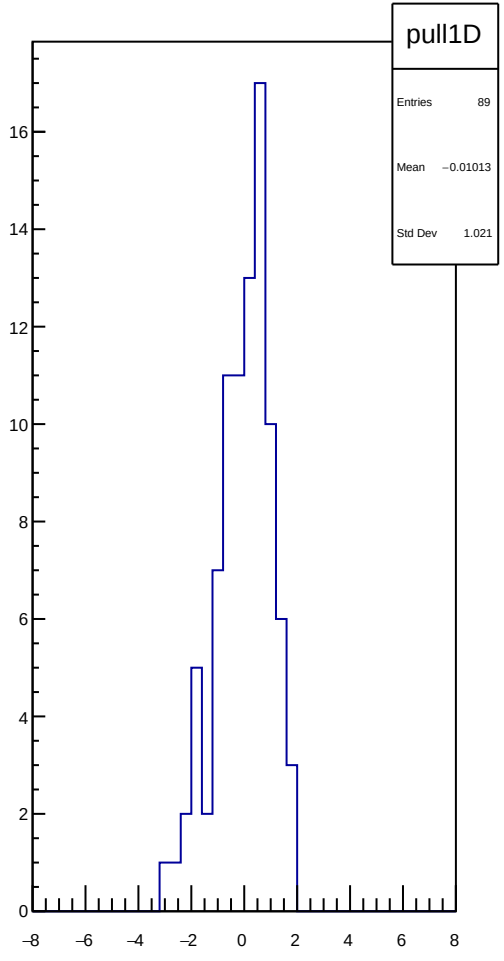

asym_bpm0l06WS_rms vs run
$\chi^2$ / ndf 1.477e+04 / 88
p0 3159 ± 2.371
4500
4000
3500
3000
2500

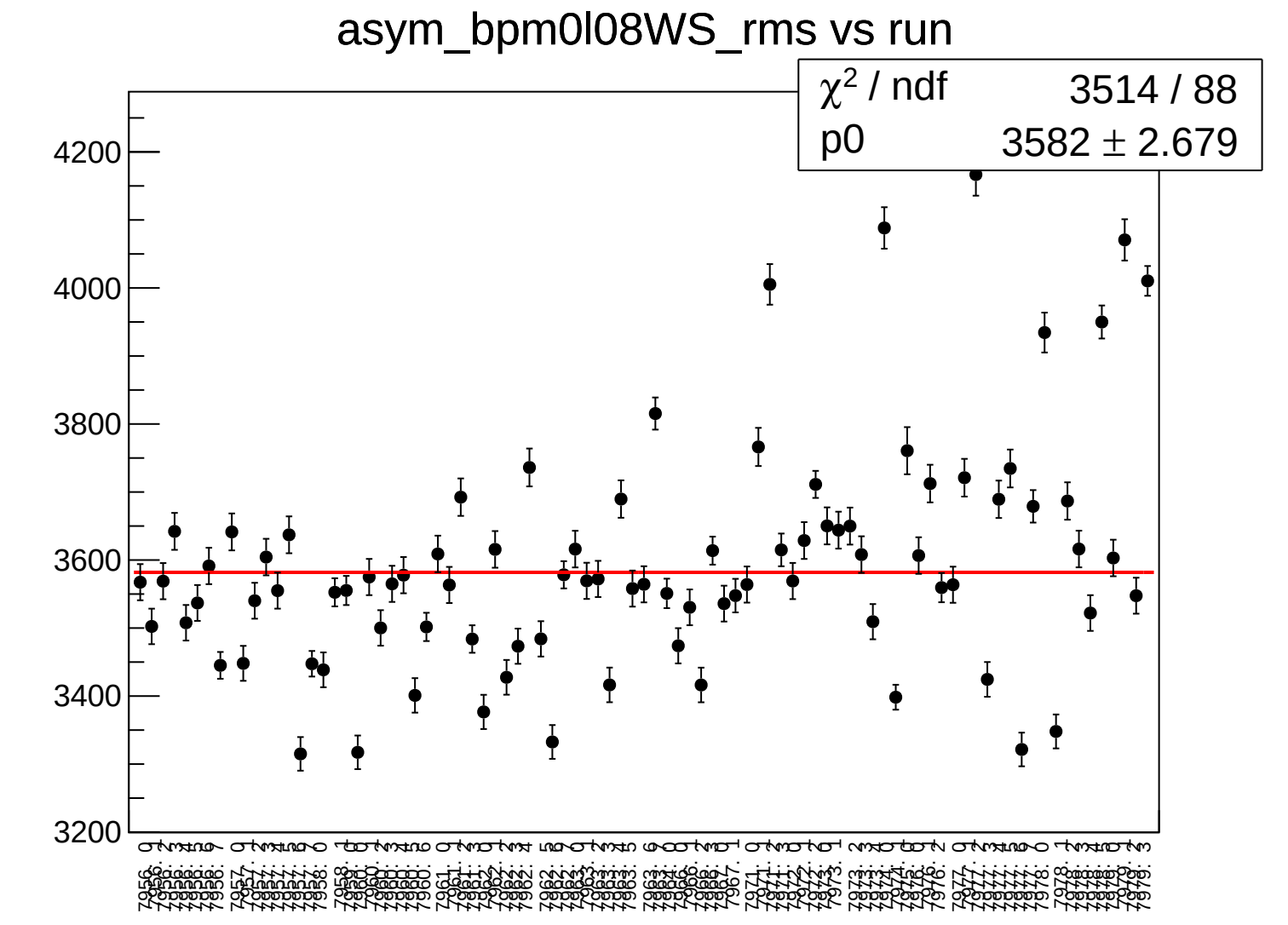

asym_bpm0l07WS_mean vs run
χ² / ndf 2443 / 88
p0 −3536 ± 199.8
pull
Entries 89
Mean −1002
Std Dev 0

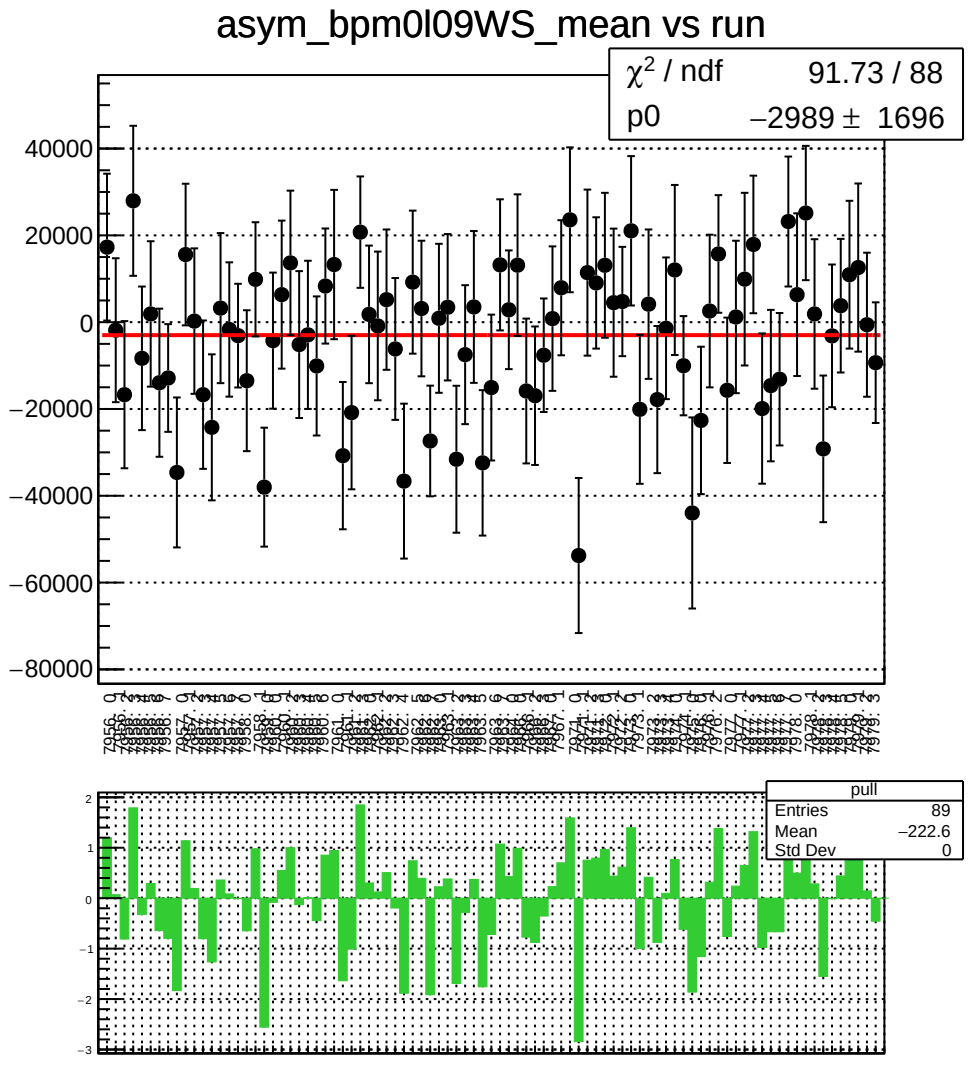

pull1D
Entries 89
Mean −0.5773
Std Dev 4.22

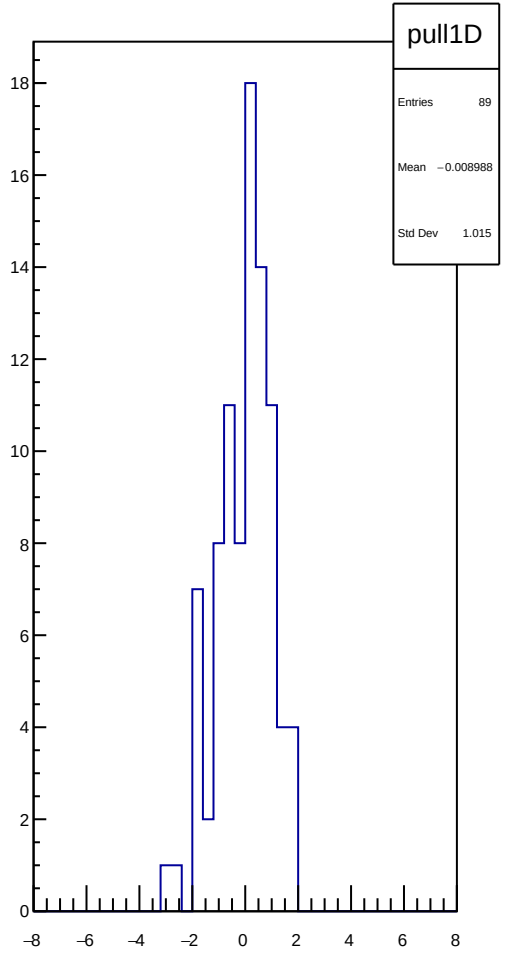

asym_bpm0l07WS_rms vs run
$\chi^2$ / ndf 3.993e+04 / 88
p0 187 ± 0.1413
280
260
240
220
200
180
160

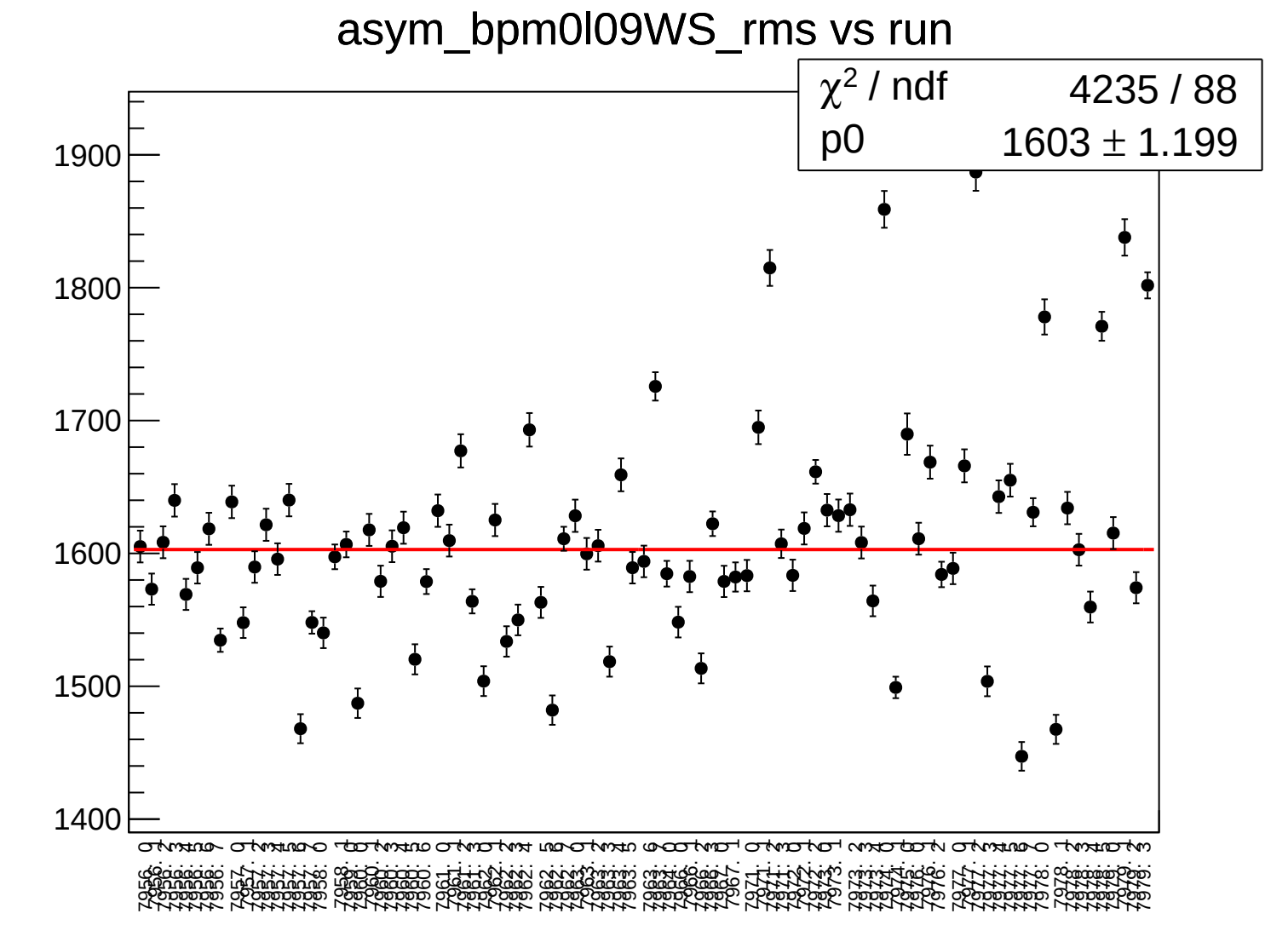

asym_bpm0l08WS_mean vs run
×10^3
χ² / ndf 92.75 / 88
p0 −5694 ± 3789
100
50
0
−50
−100
−150
pull
Entries 89
Mean −163.9
Std Dev 0
2
1
0
−1
−2
−3

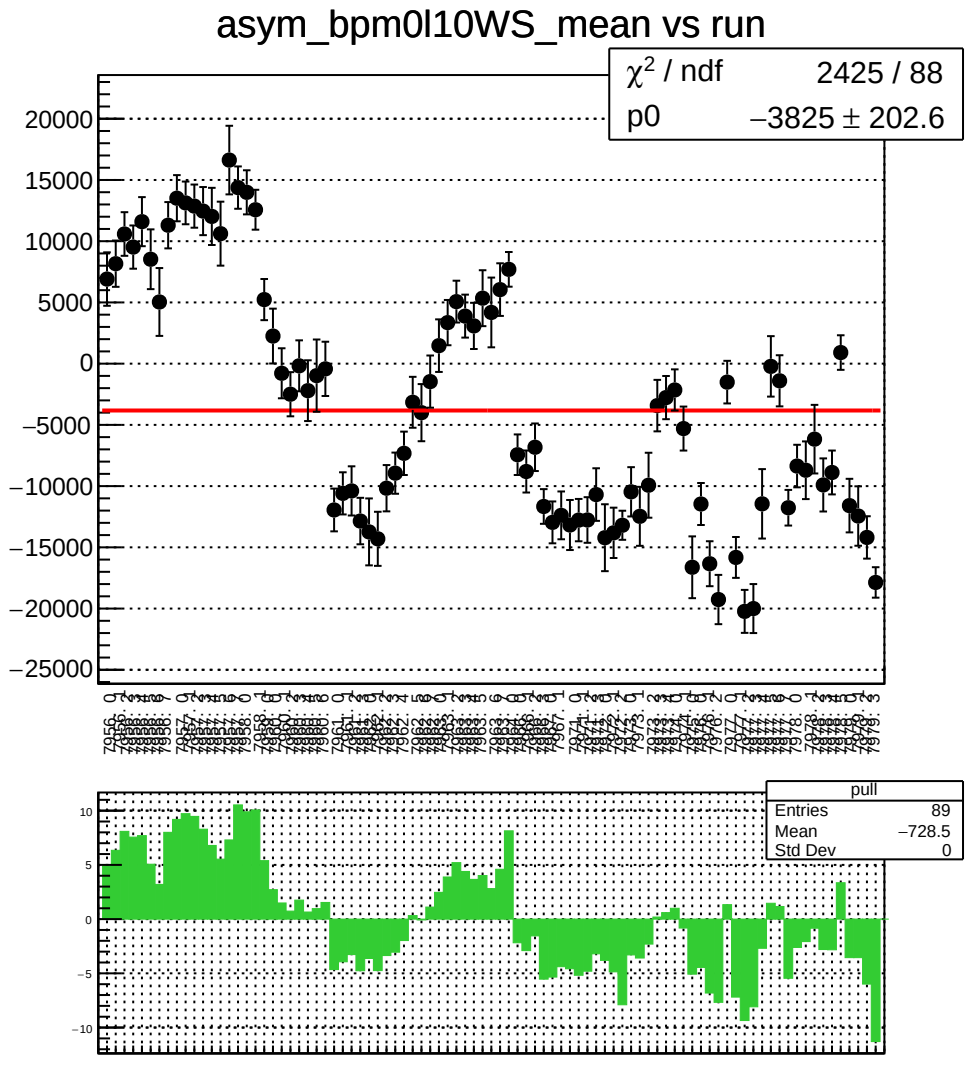

pull1D
Entries 89
Mean −0.01013
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

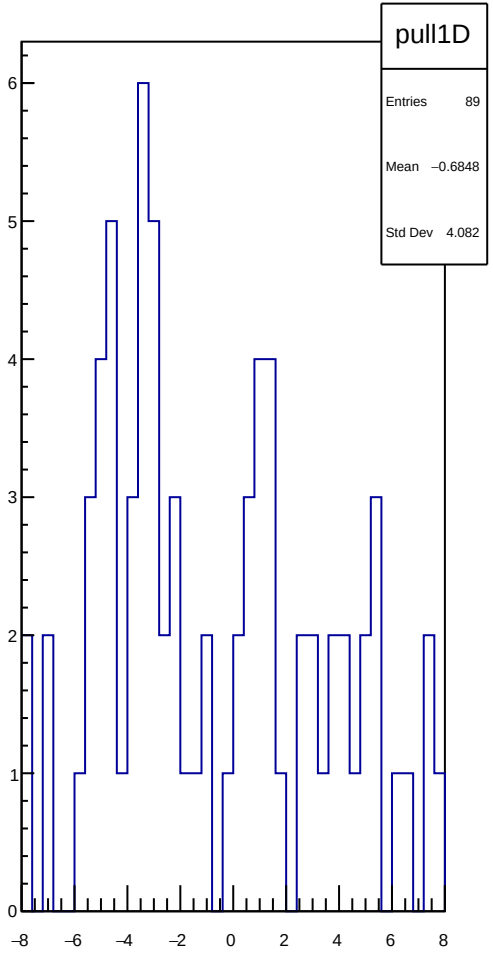

asym_bpm0l08WS_rms vs run
χ² / ndf 3514 / 88
p0 3582 ± 2.679
4200
4000
3800
3600
3400
3200

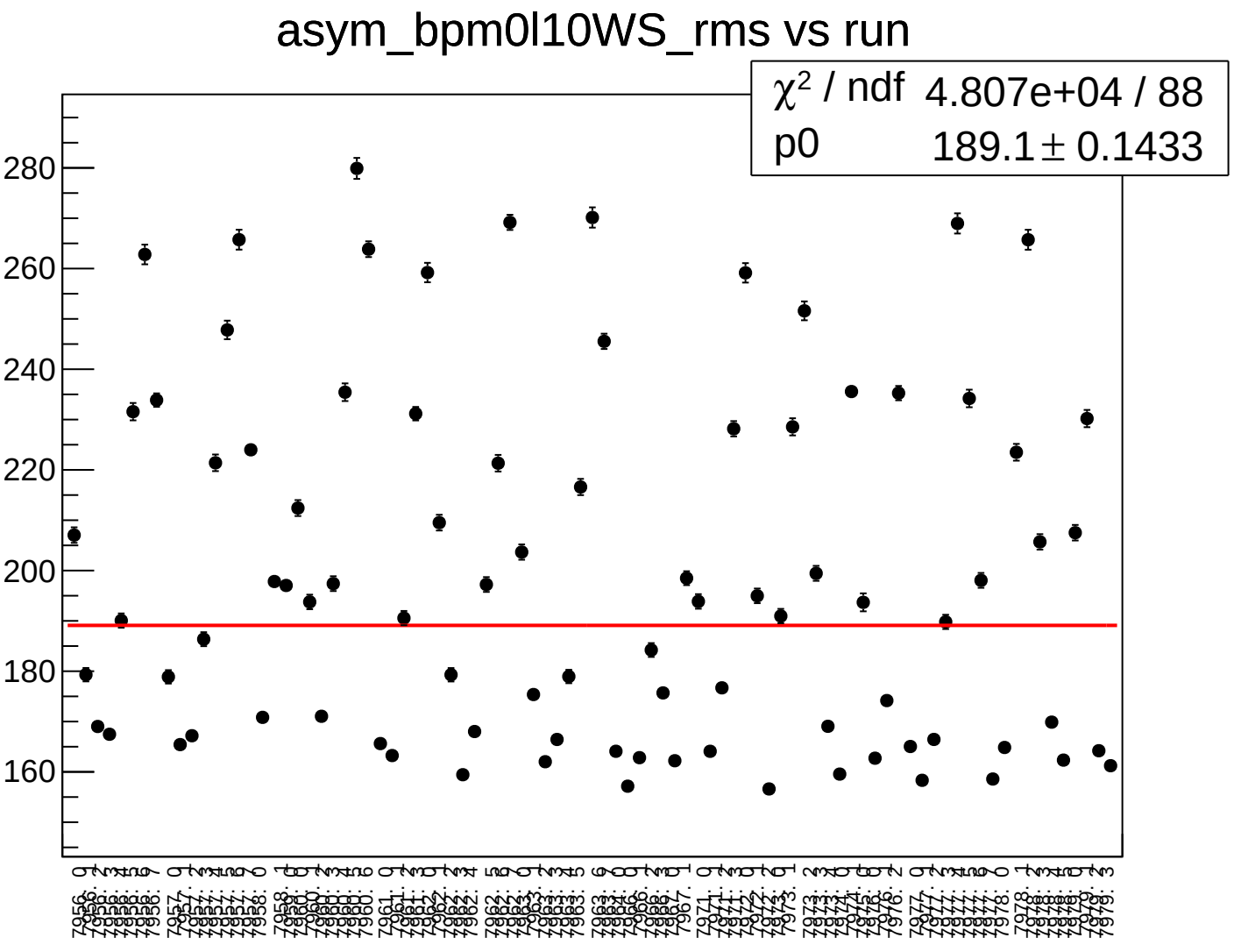

asym_bpm0l09WS_mean vs run
χ² / ndf 91.73 / 88
p0 −2989 ± 1696
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −222.6
Std Dev 0
2
1
0
−1
−2
−3

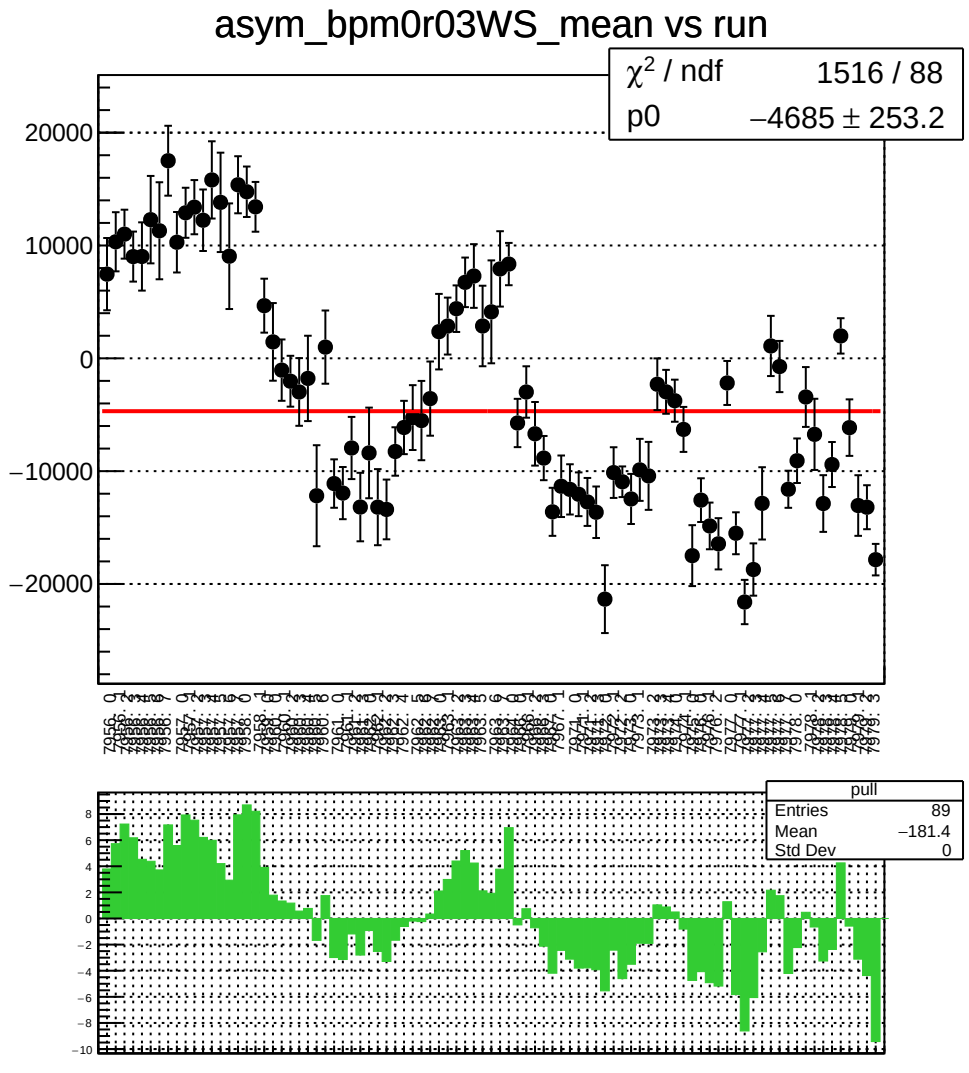

pull1D
Entries 89
Mean −0.008988
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

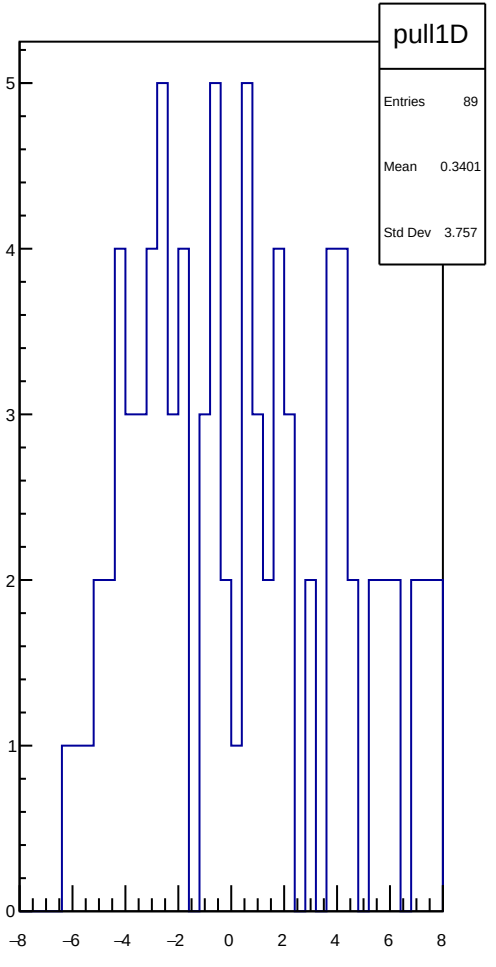

asym_bpm0l09WS_rms vs run
χ² / ndf 4235 / 88
p0 1603 ± 1.199
1900
1800
1700
1600
1500
1400

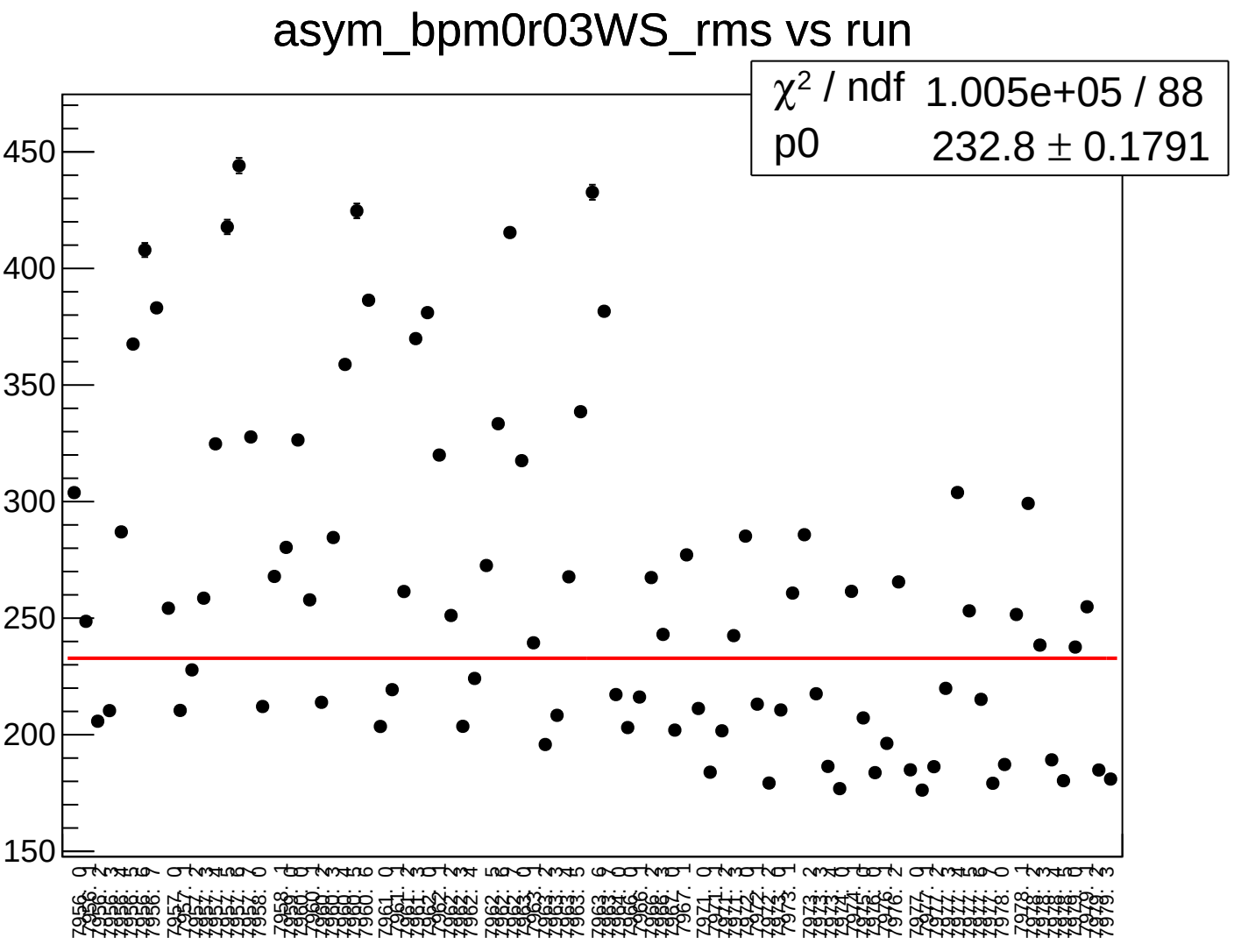

asym_bpm0l10WS_mean vs run
χ² / ndf 2425 / 88
p0 −3825 ± 202.6
pull
Entries 89
Mean −728.5
Std Dev 0

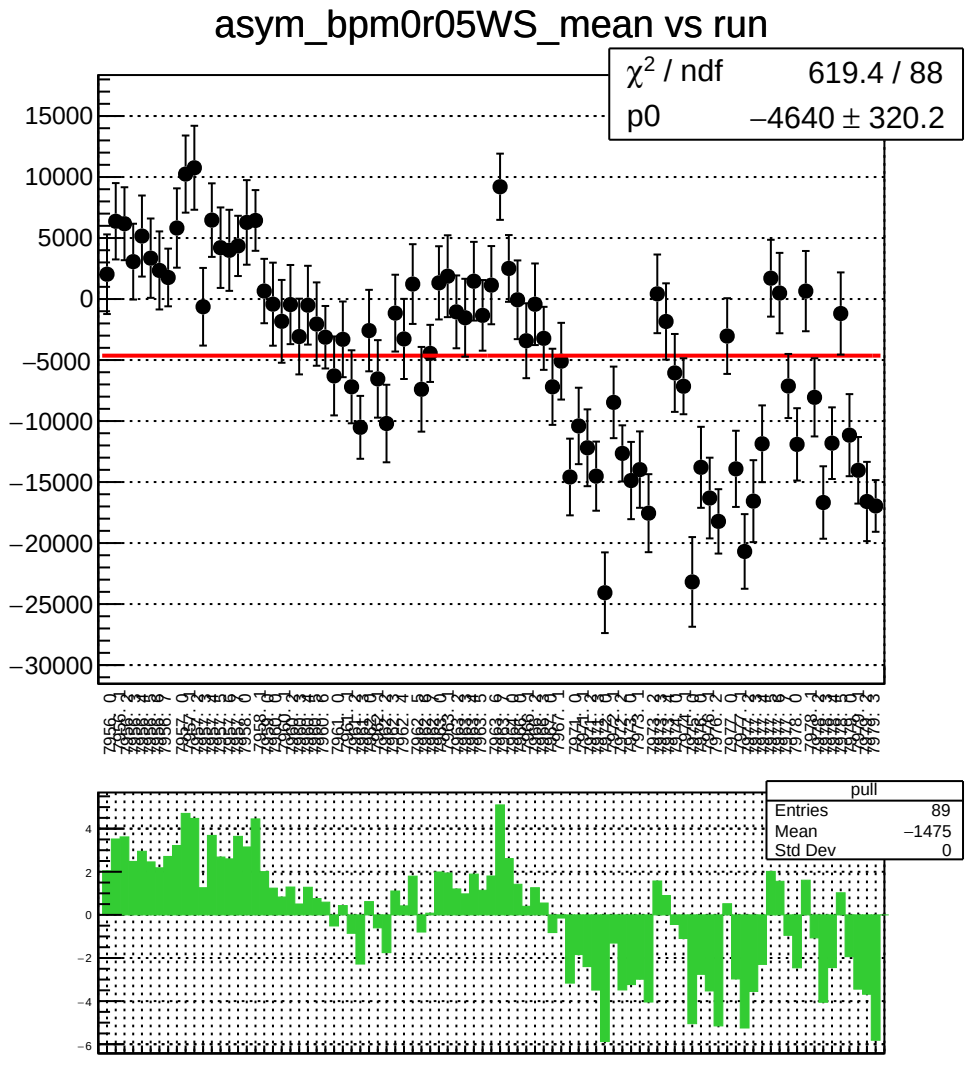

pull1D
Entries 89
Mean −0.6848
Std Dev 4.082

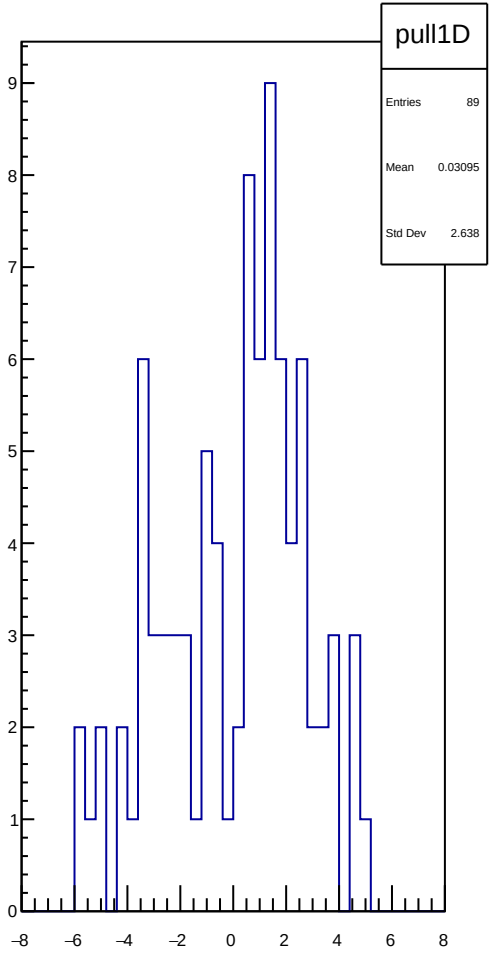

asym_bpm0l10WS_rms vs run
χ² / ndf 4.807e+04 / 88
p0 189.1 ± 0.1433
280
260
240
220
200
180
160

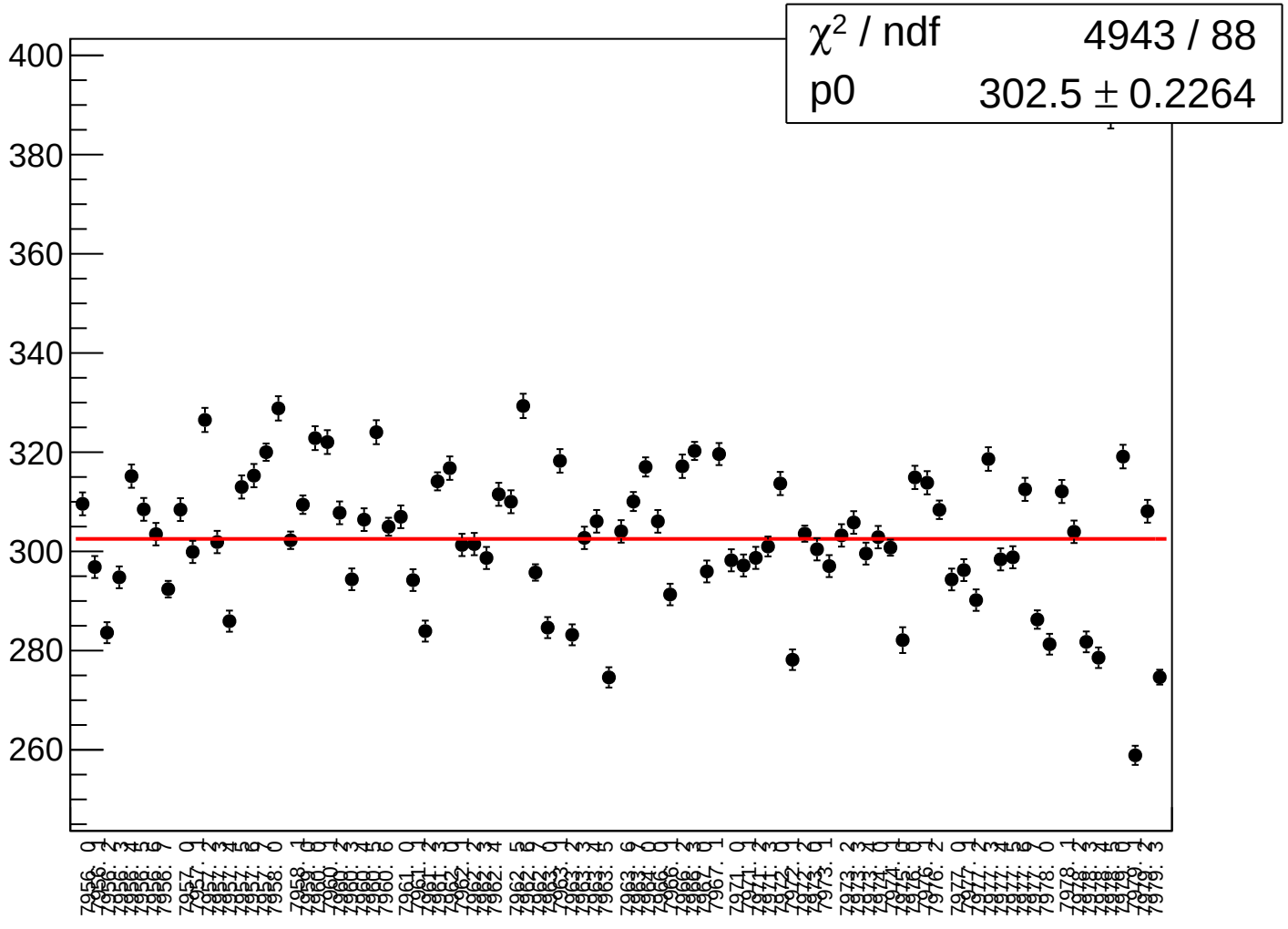

asym_bpm0r03WS_mean vs run
χ² / ndf 1516 / 88
p0 −4685 ± 253.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −181.4
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10

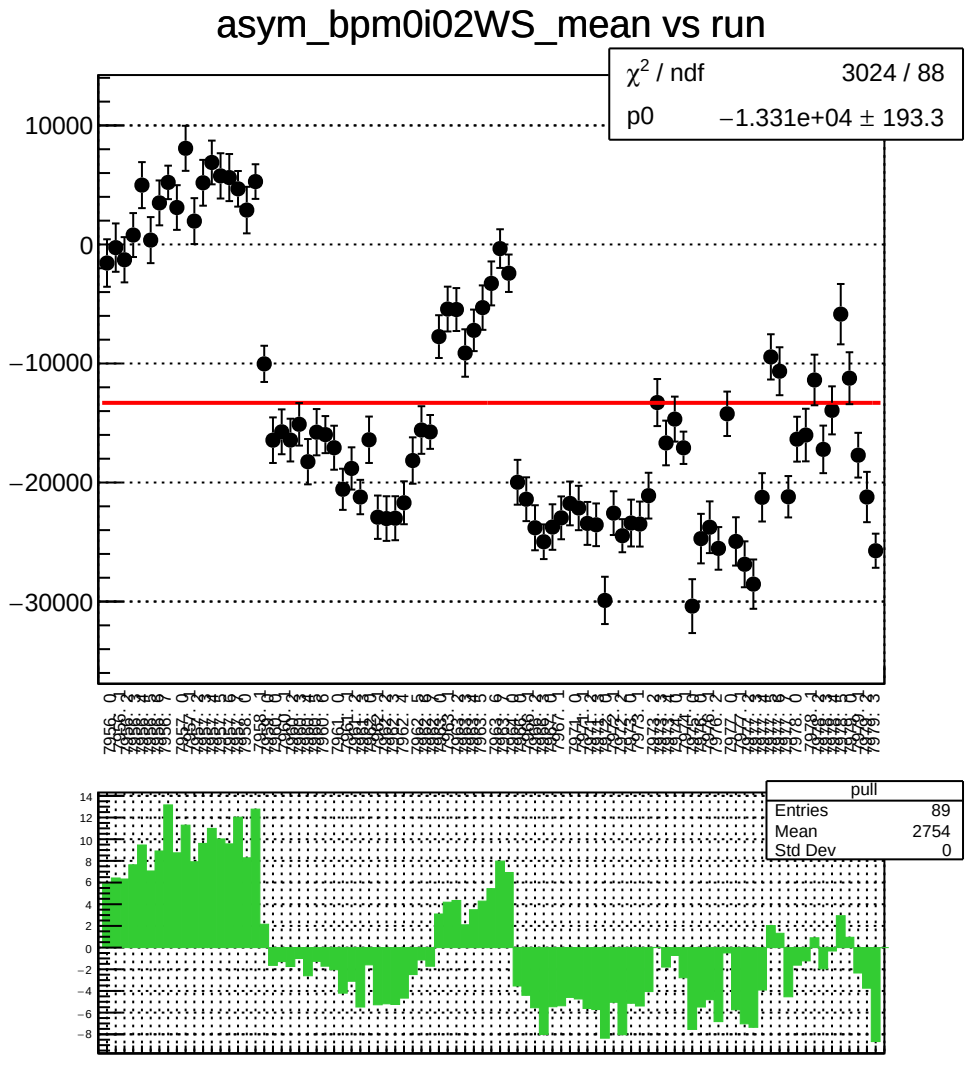

pull1D
Entries 89
Mean 0.3401
Std Dev 3.757
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

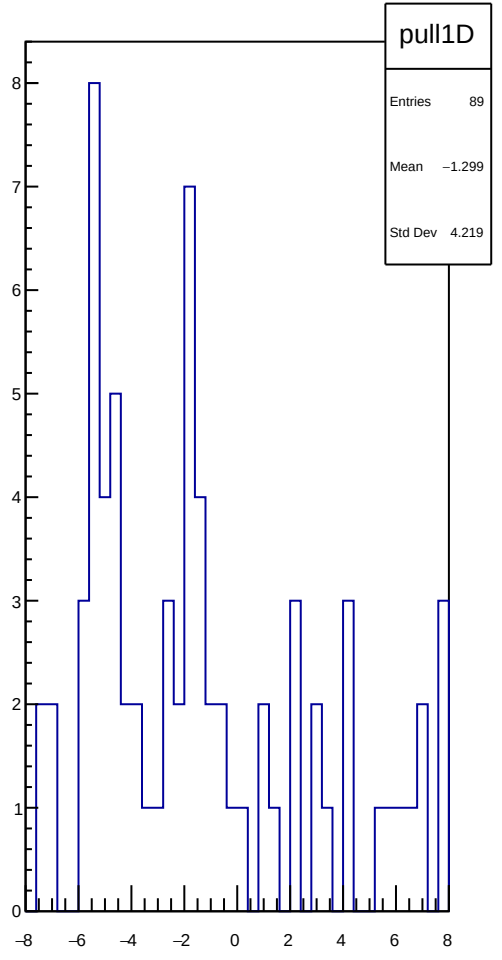

asym_bpm0r03WS_rms vs run
χ² / ndf 1.005e+05 / 88
p0 232.8 ± 0.1791
450
400
350
300
250
200
150

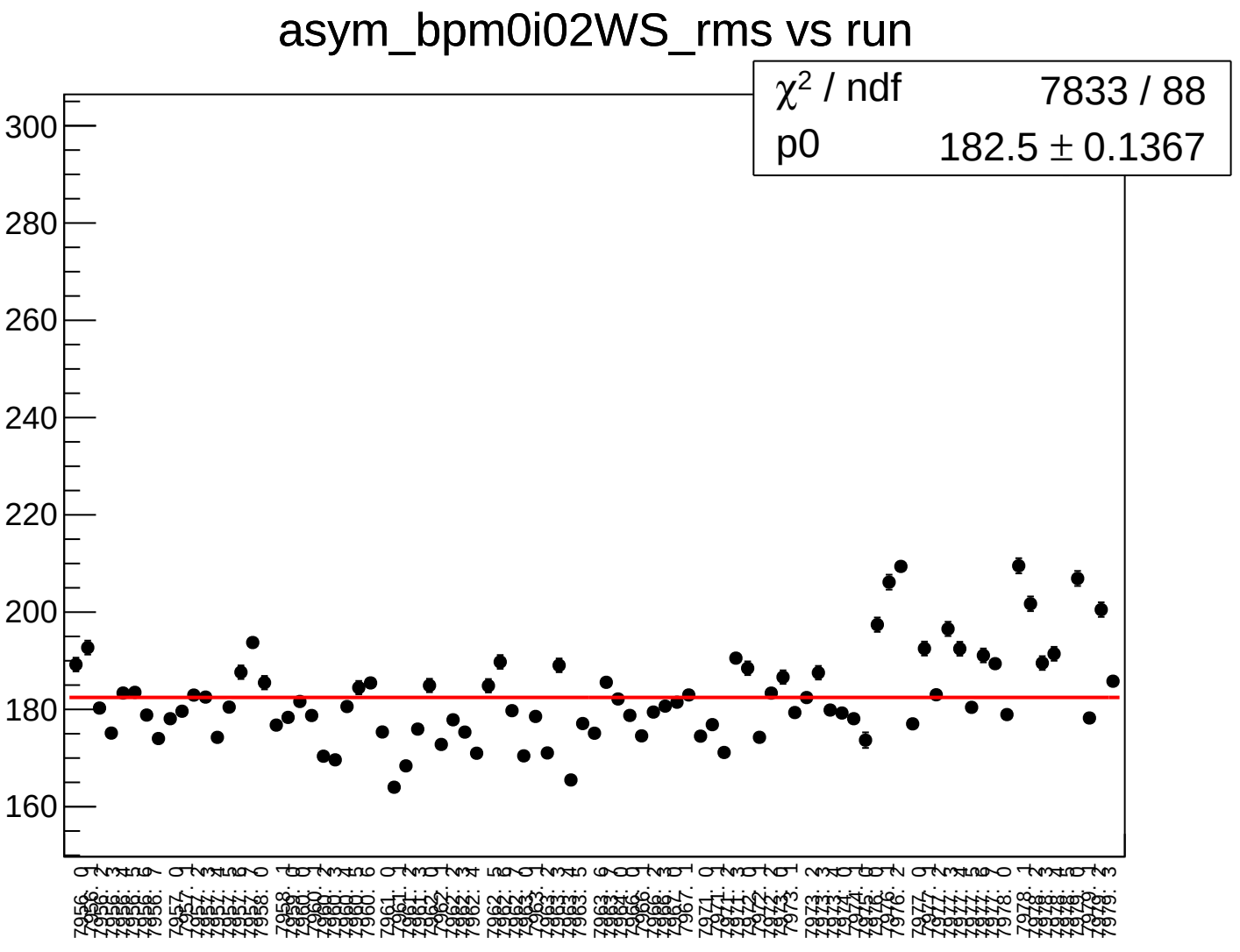

asym_bpm0r05WS_mean vs run
χ² / ndf 619.4 / 88
p0 −4640 ± 320.2
pull
Entries 89
Mean −1475
Std Dev 0

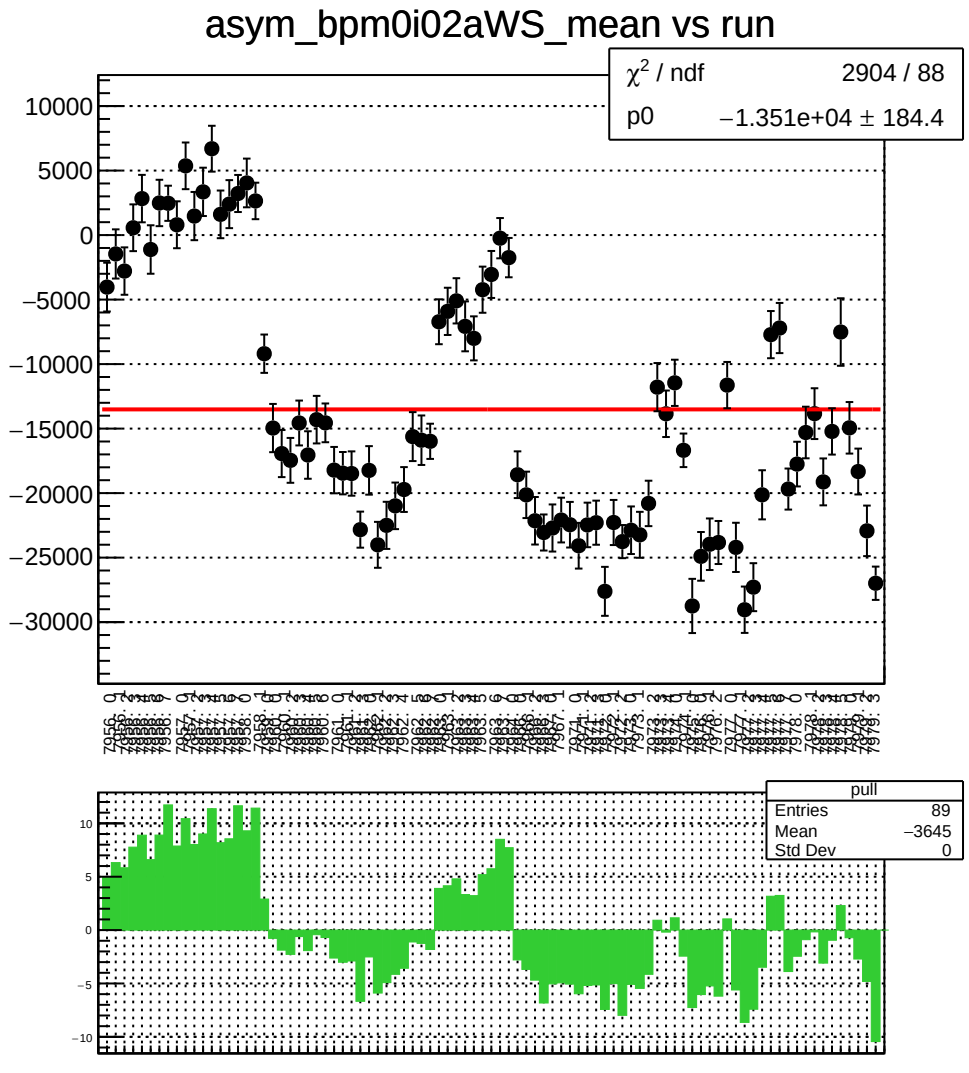

pull1D
Entries 89
Mean 0.03095
Std Dev 2.638

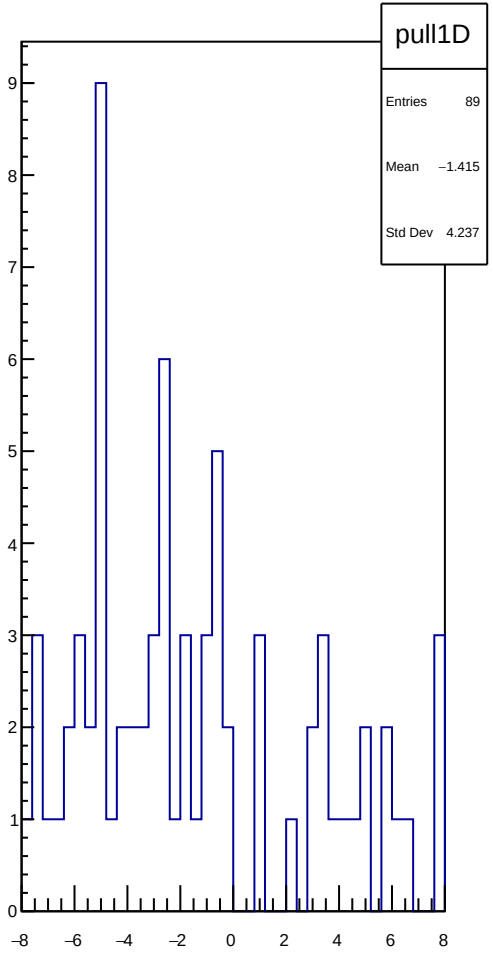

asym_bpm0r05WS_rms vs run
χ² / ndf 4943 / 88
p0 302.5 ± 0.2264
400
380
360
340
320
300
280
260

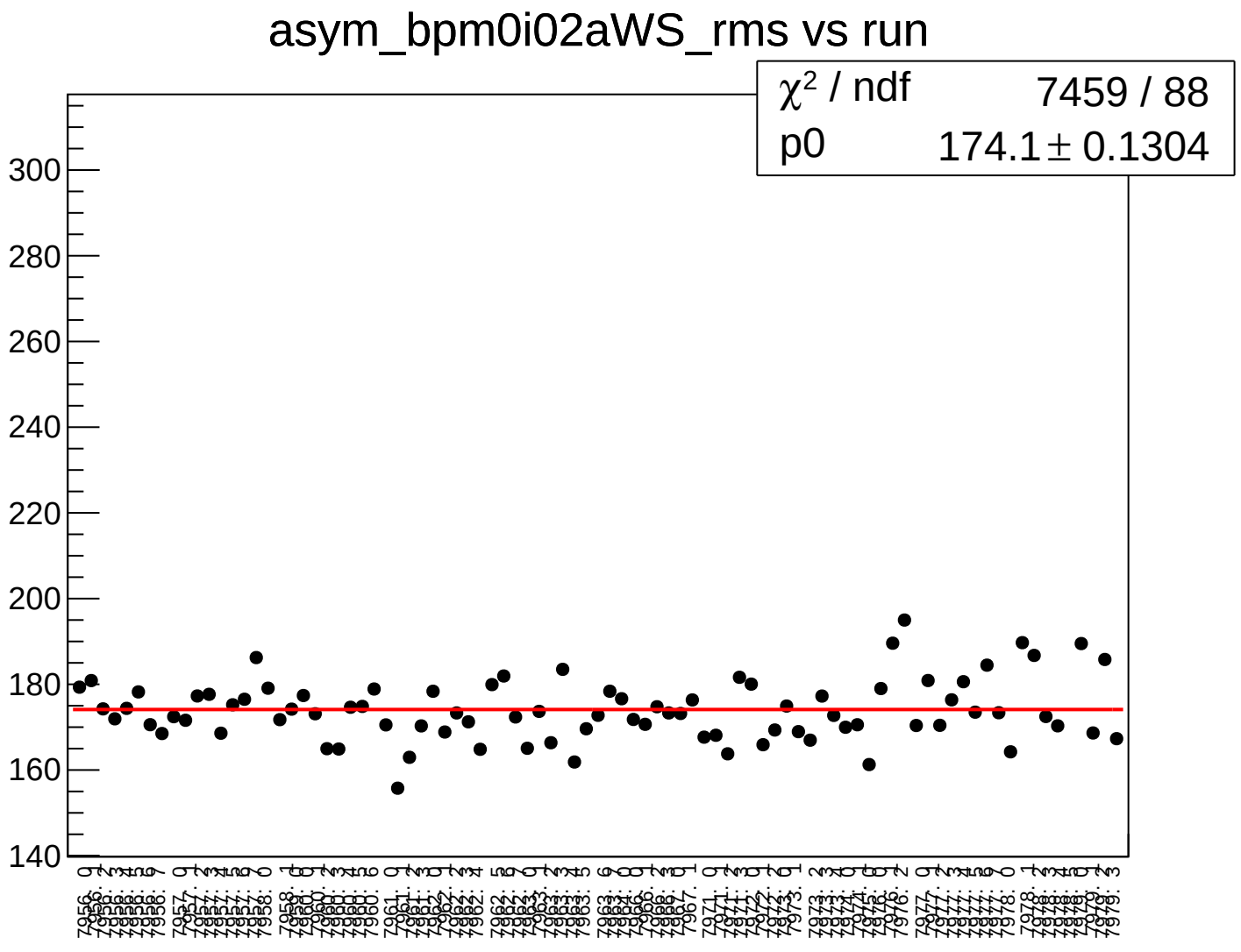

asym_bpm0i02WS_mean vs run
χ² / ndf 3024 / 88
p0 −1.331e+04 ± 193.3
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 2754
Std Dev 0

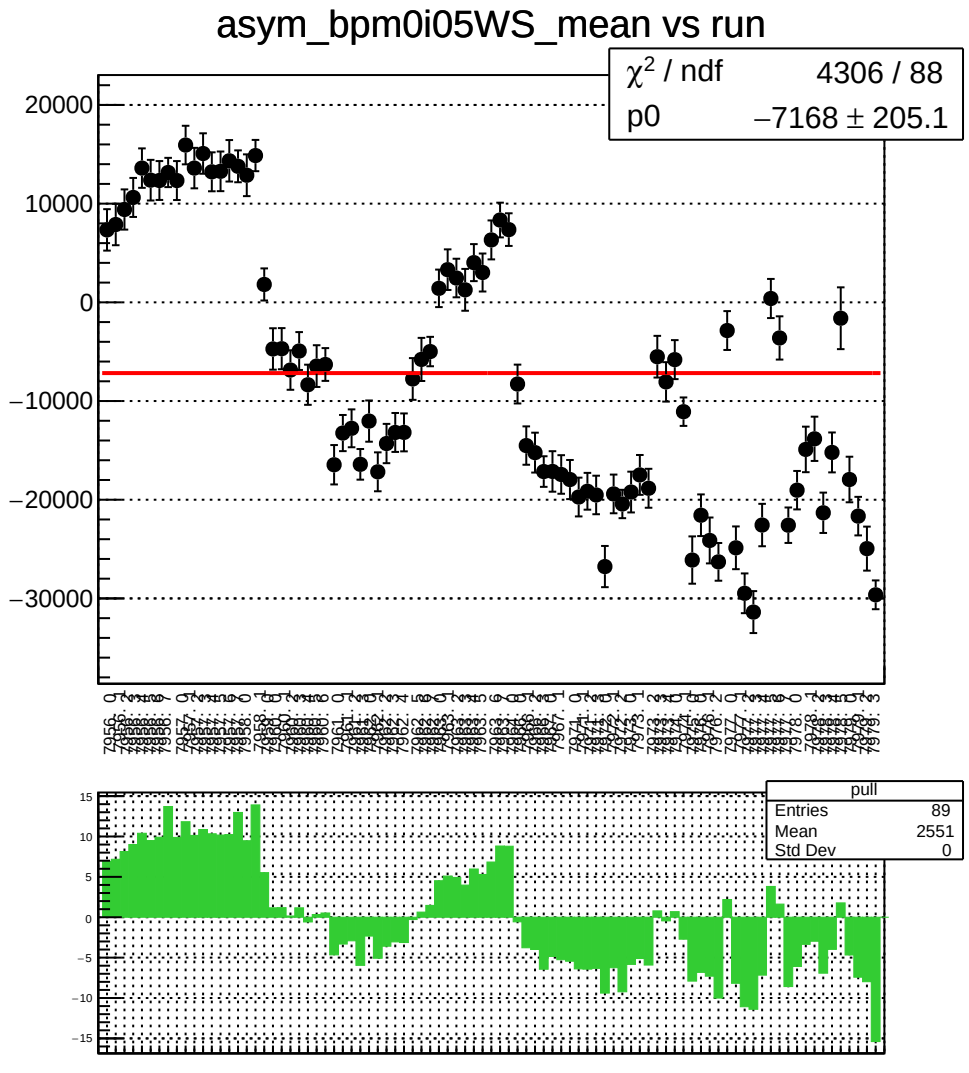

pull1D
Entries 89
Mean −1.299
Std Dev 4.219

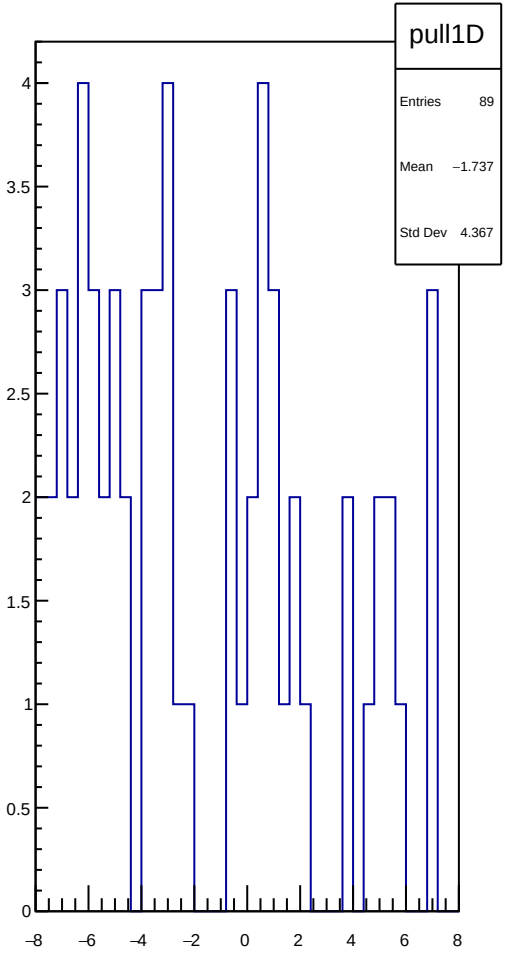

asym_bpm0i02WS_rms vs run
χ² / ndf 7833 / 88
p0 182.5 ± 0.1367
300
280
260
240
220
200
180
160

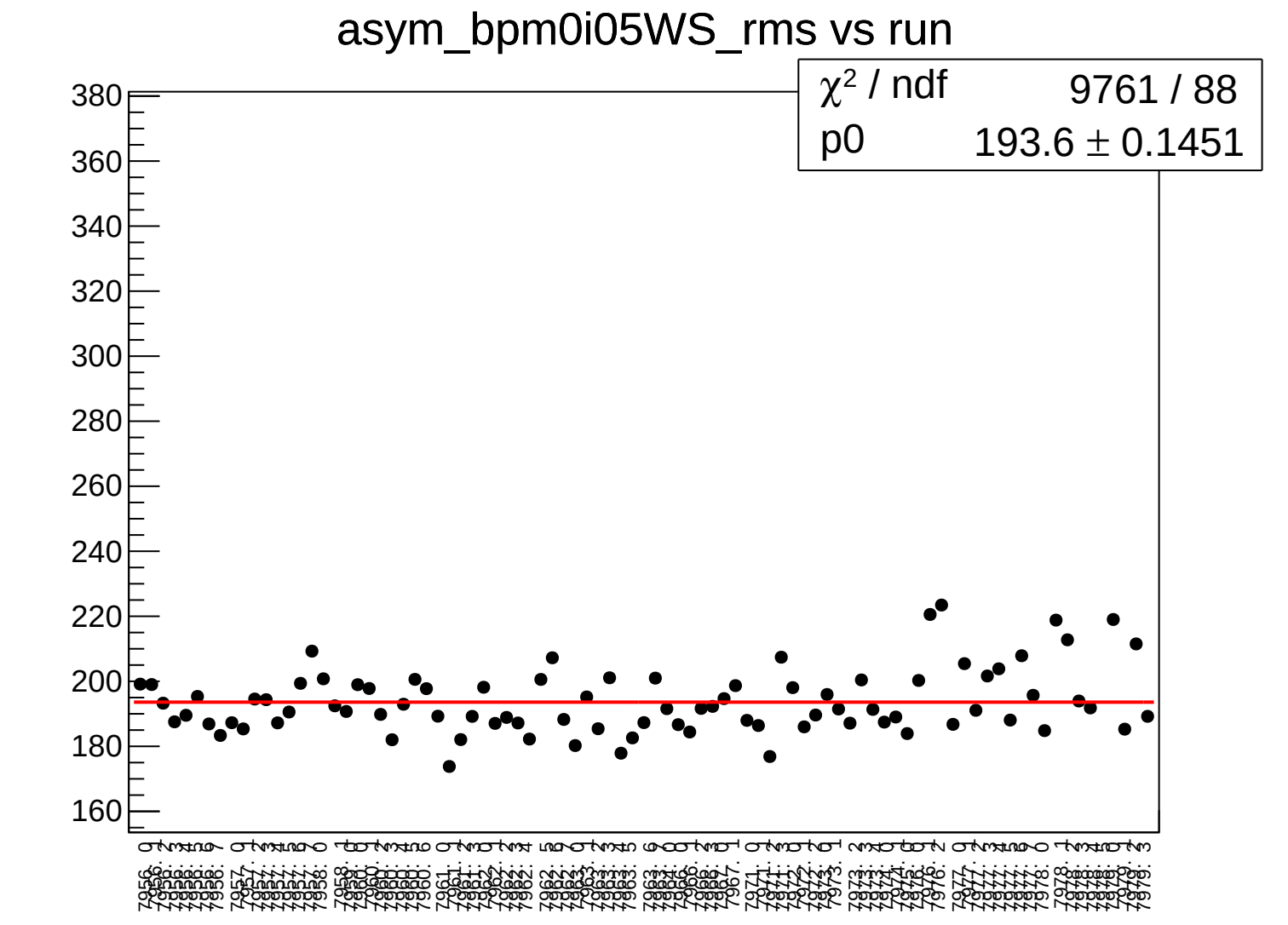

asym_bpm0i02aWS_mean vs run
χ² / ndf 2904 / 88
p0 −1.351e+04 ± 184.4
pull
Entries 89
Mean −3645
Std Dev 0

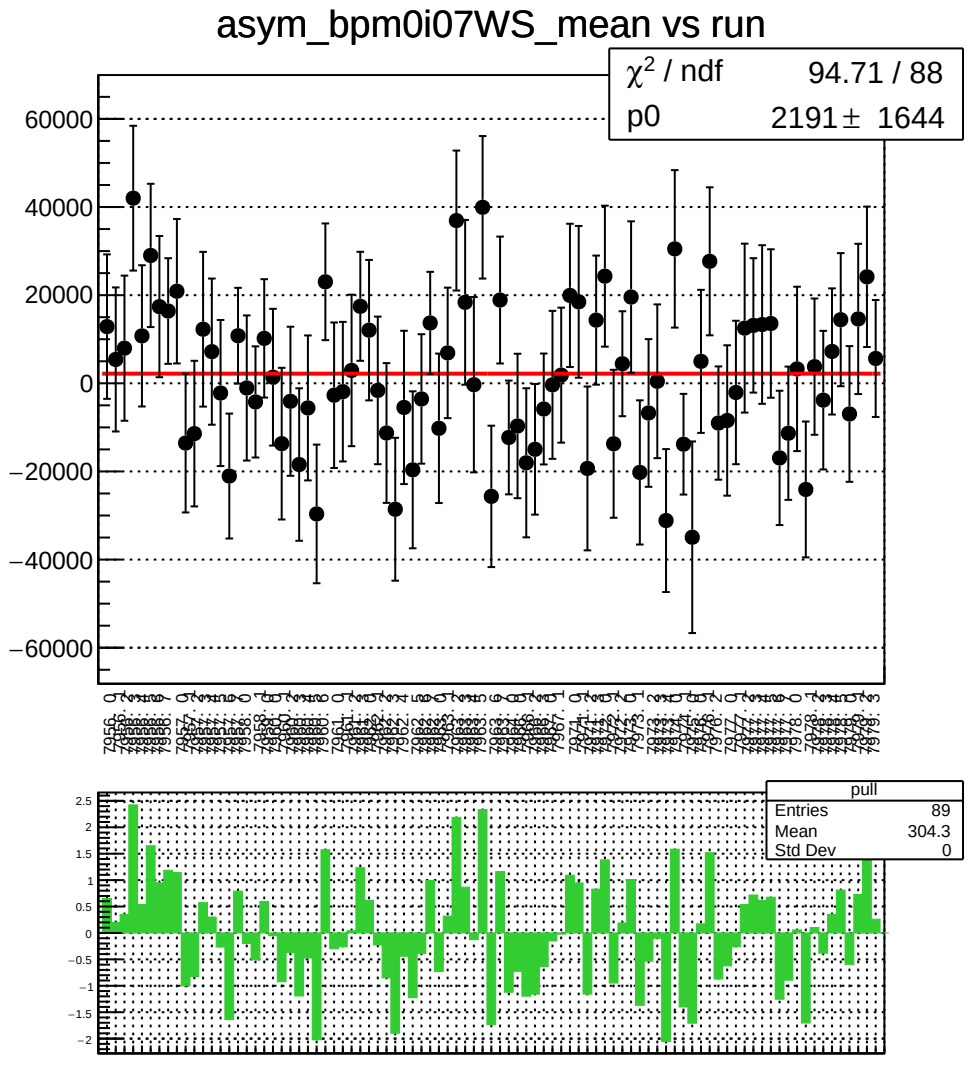

pull1D
Entries 89
Mean −1.415
Std Dev 4.237

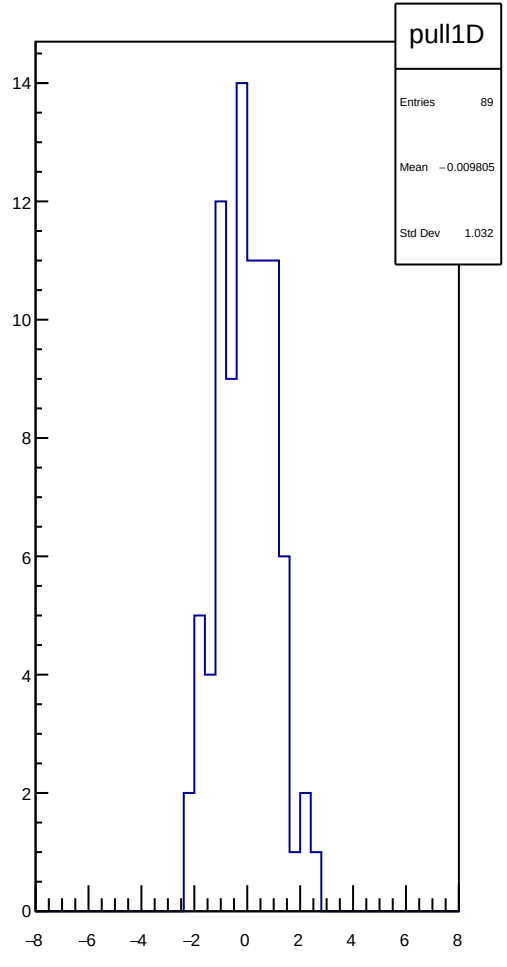

asym_bpm0i02aWS_rms vs run
χ² / ndf 7459 / 88
p0 174.1 ± 0.1304
300
280
260
240
220
200
180
160
140

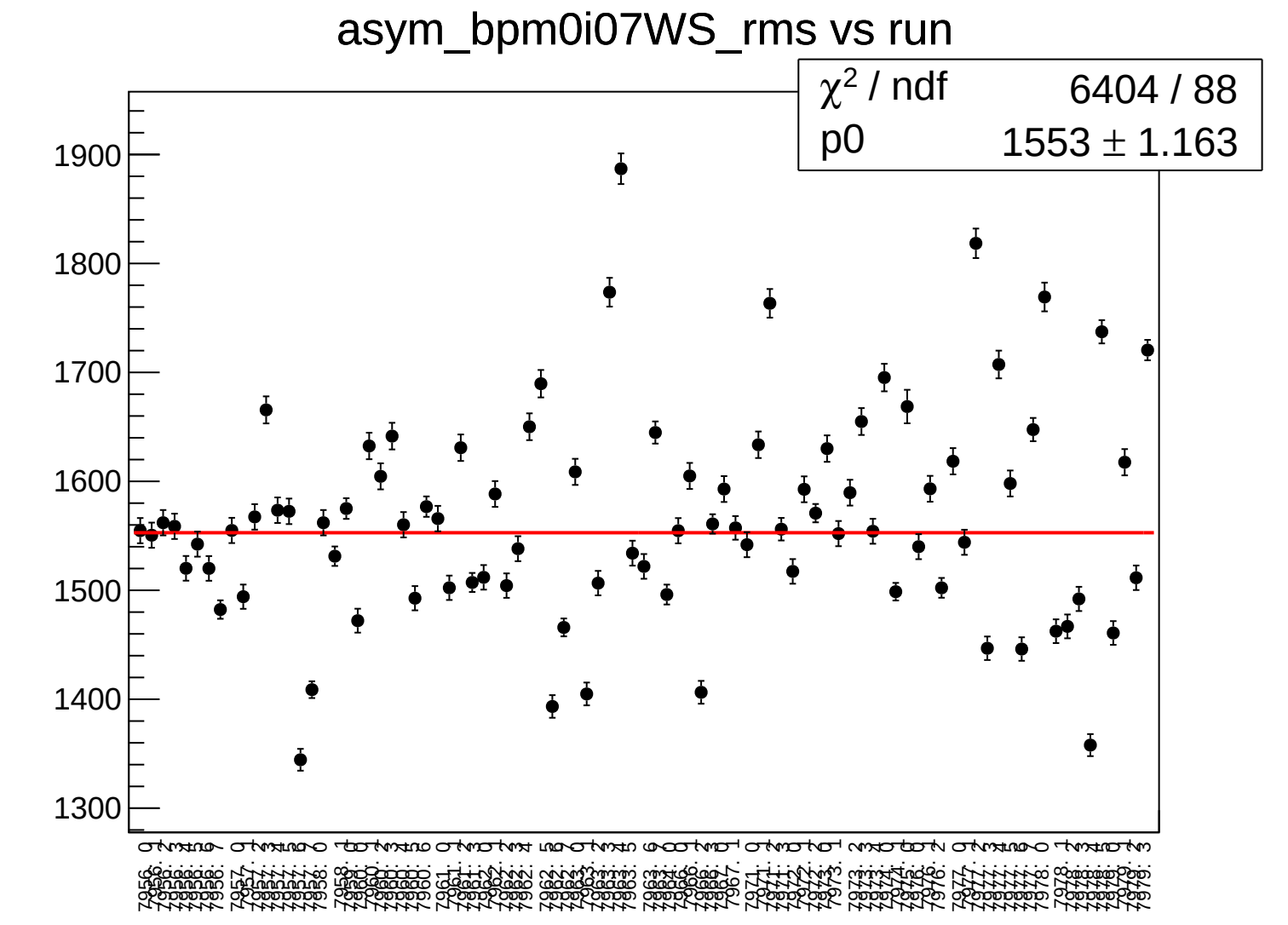

asym_bpm0i05WS_mean vs run
χ² / ndf 4306 / 88
p0 −7168 ± 205.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 2551
Std Dev 0
15
10
5
0
−5
−10
−15

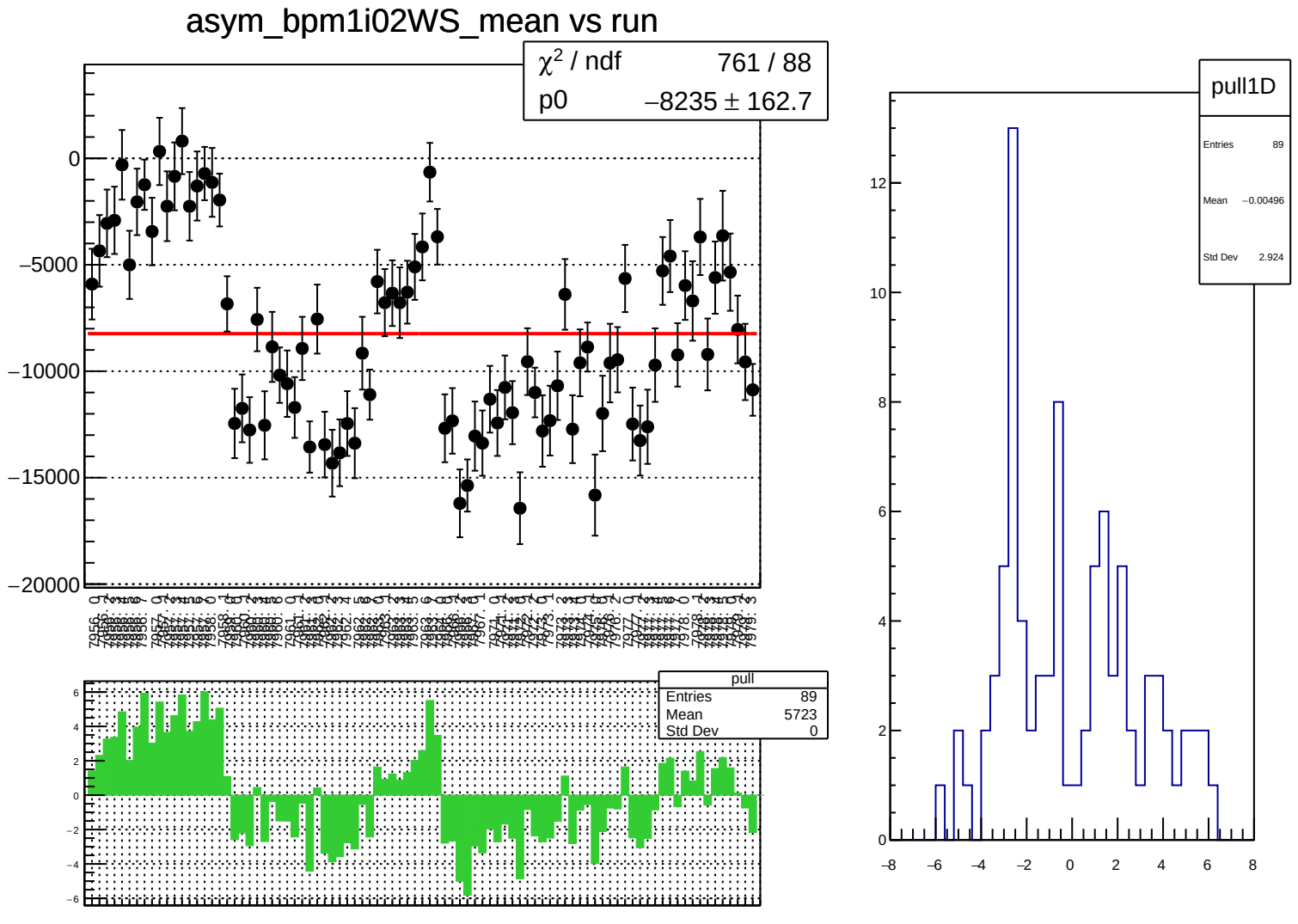

pull1D
Entries 89
Mean −1.737
Std Dev 4.367
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

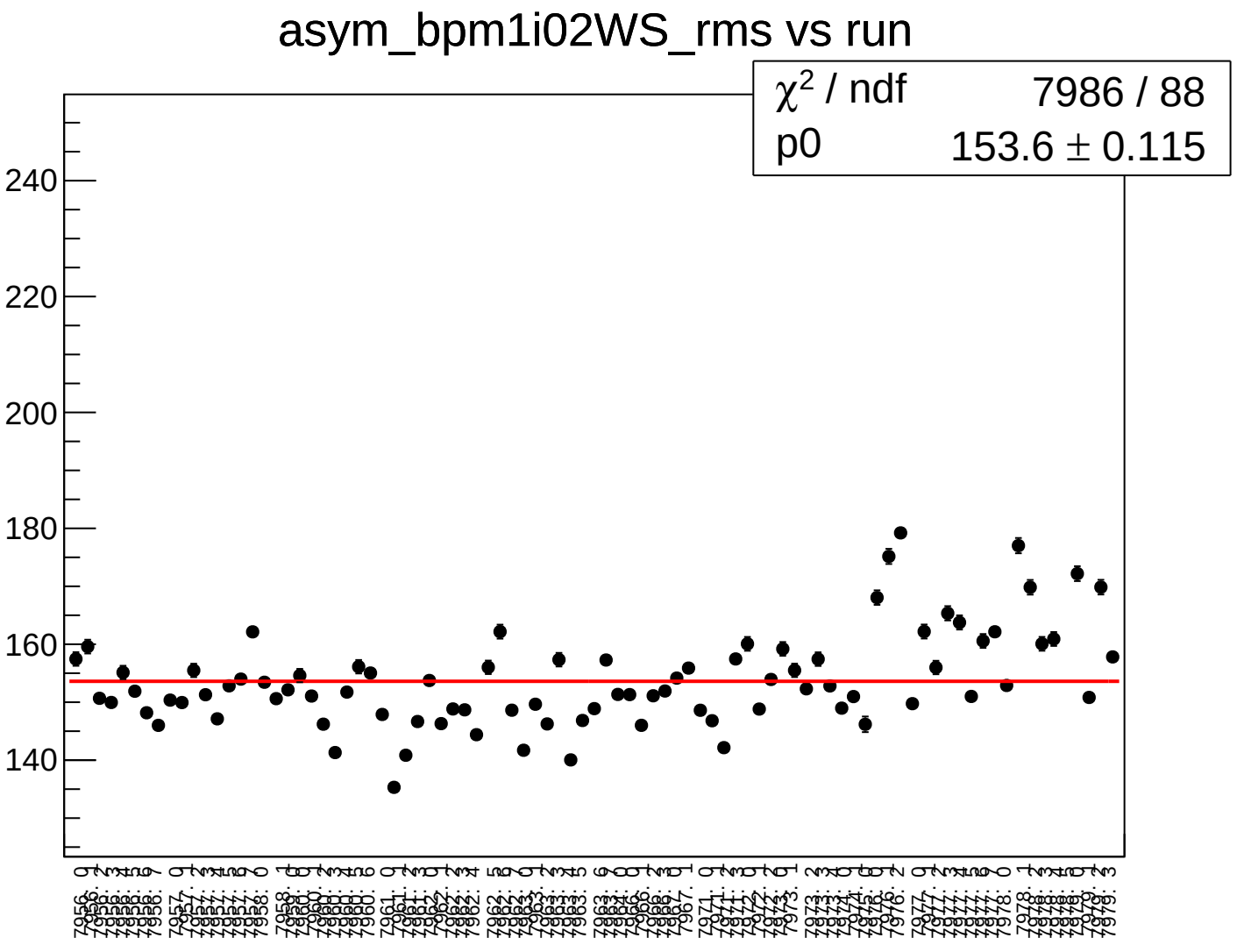

asym_bpm0i05WS_rms vs run
$\chi^2$ / ndf 9761 / 88
p0 193.6 ± 0.1451
380
360
340
320
300
280
260
240
220
200
180
160

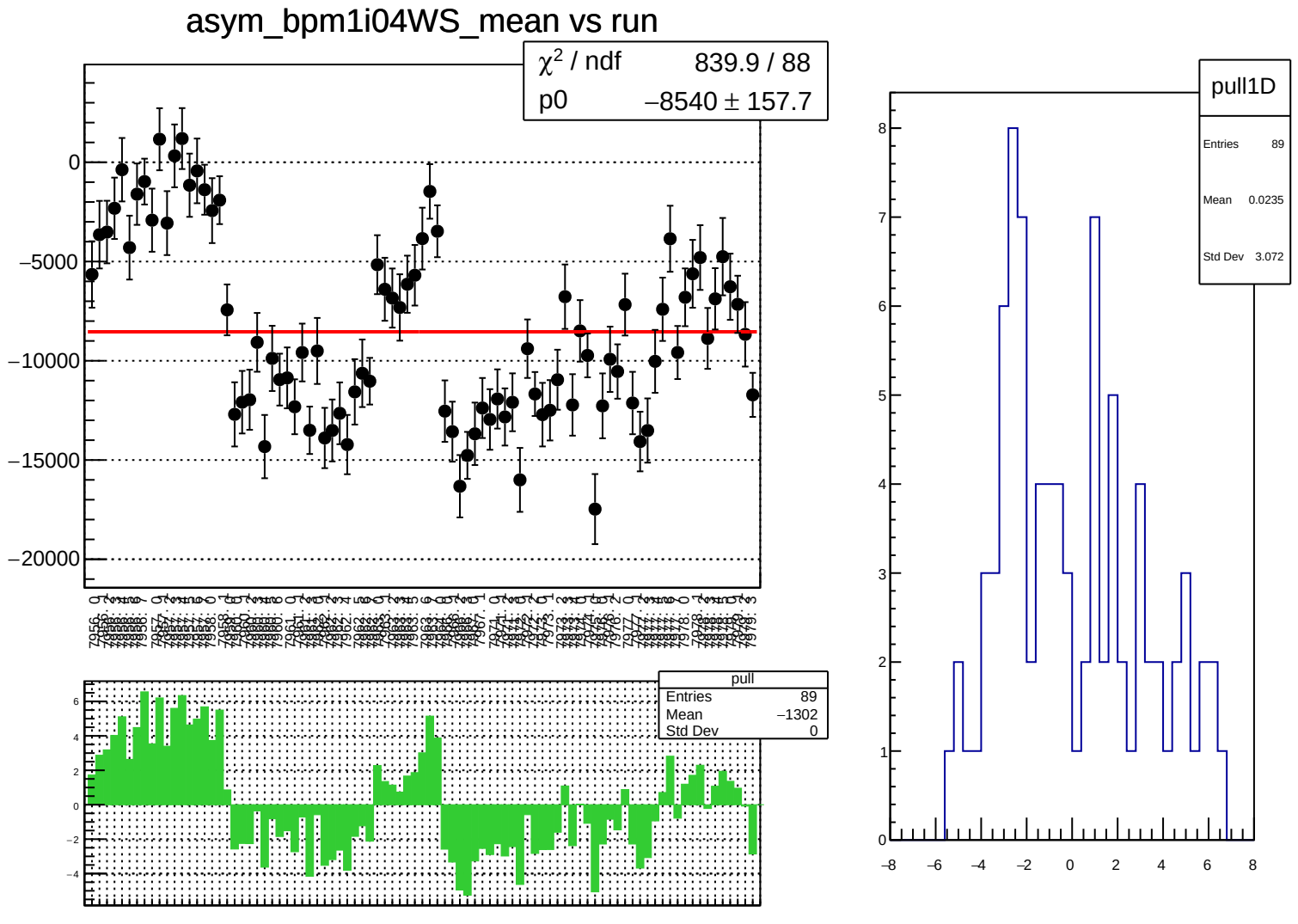

asym_bpm0i07WS_mean vs run
χ² / ndf 94.71 / 88
p0 2191 ± 1644
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 304.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

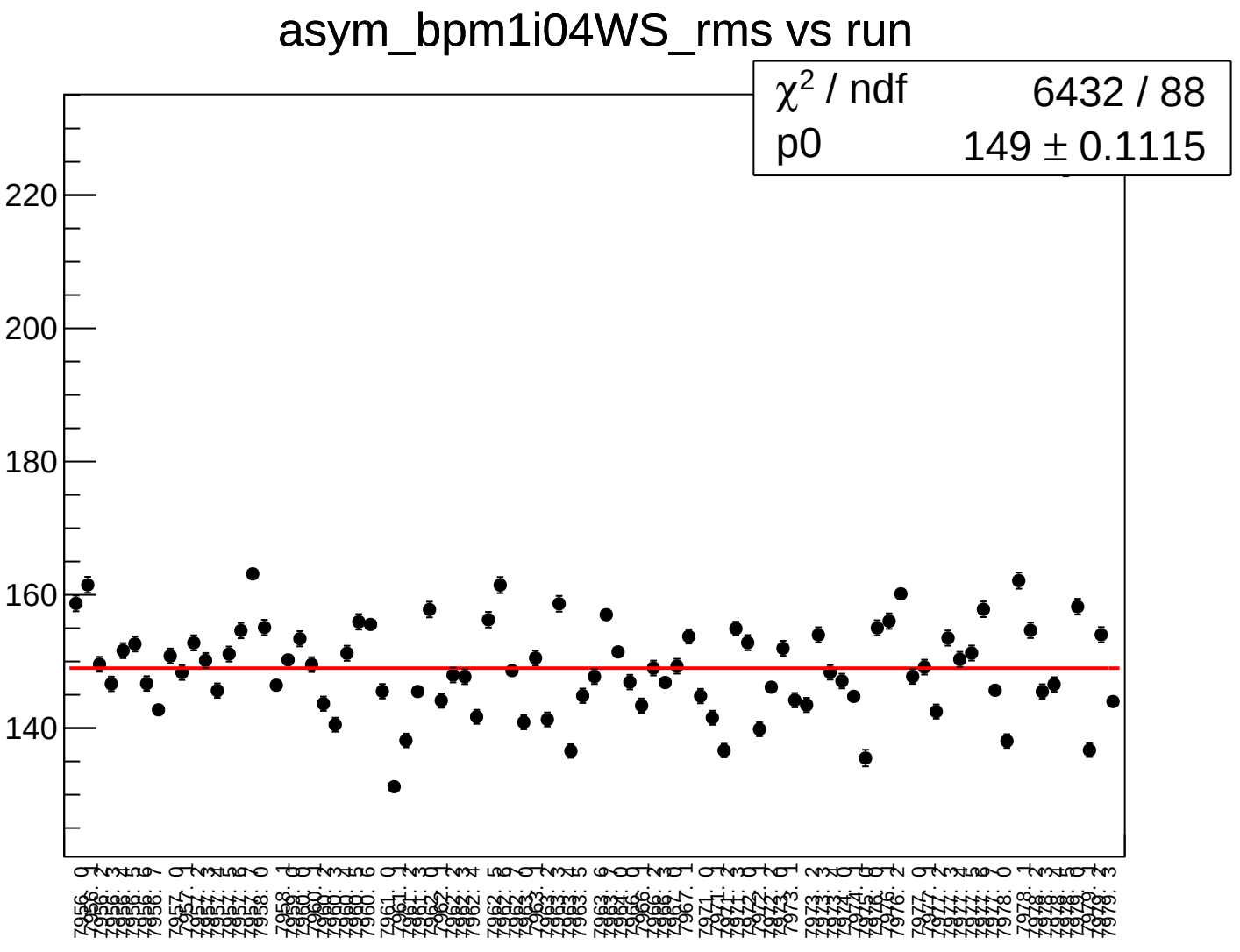

pull1D
Entries 89
Mean −0.009805
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

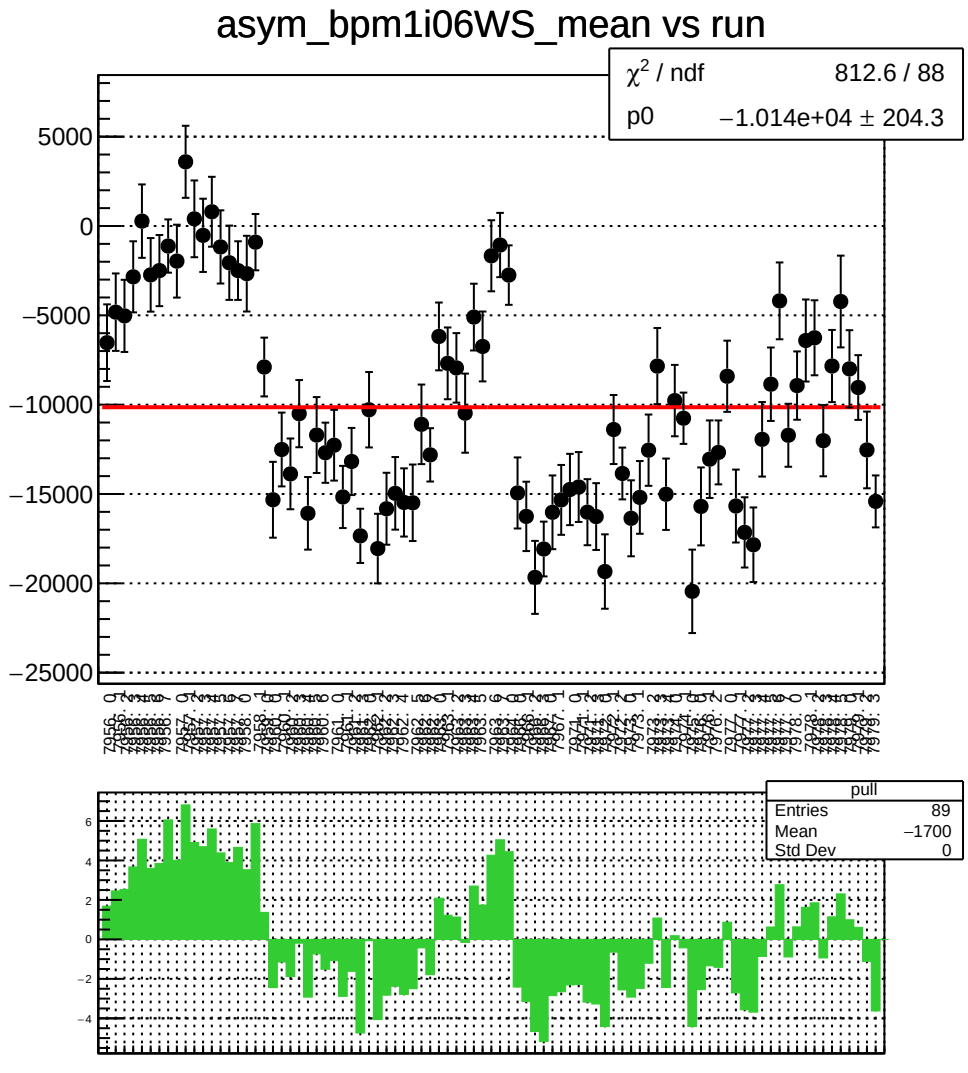

asym_bpm0i07WS_rms vs run
χ² / ndf 6404 / 88
p0 1553 ± 1.163
1900
1800
1700
1600
1500
1400
1300

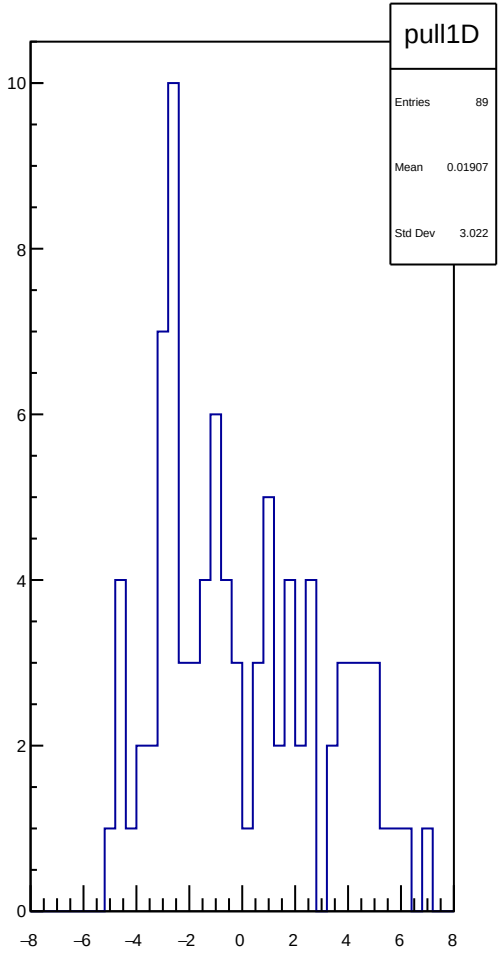

asym_bpm1i02WS_mean vs run
χ² / ndf 761 / 88
p0 −8235 ± 162.7
pull
Entries 89
Mean 5723
Std Dev 0
pull1D
Entries 89
Mean −0.00496
Std Dev 2.924

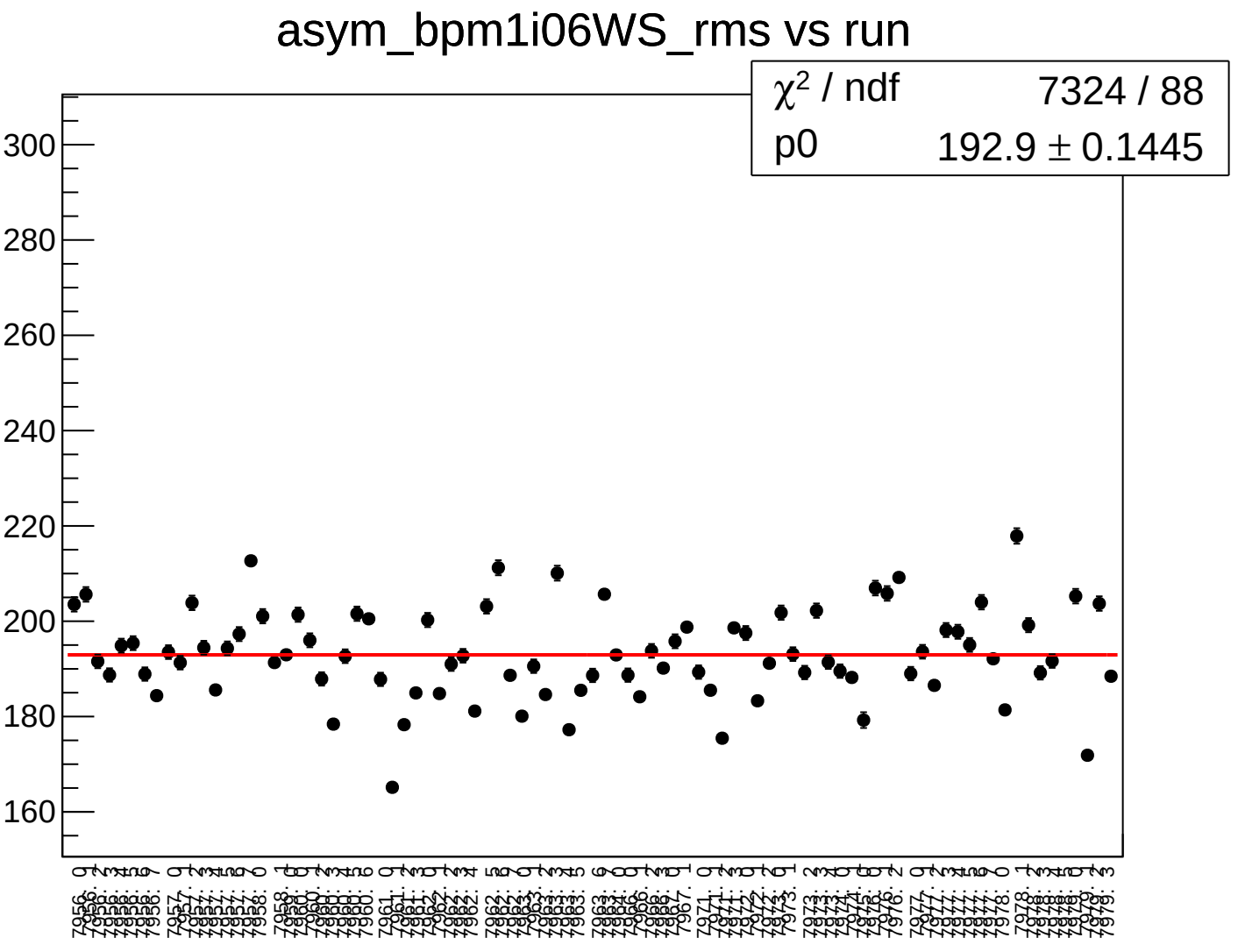

asym_bpm1i02WS_rms vs run
$\chi^2$ / ndf 7986 / 88
p0 153.6 ± 0.115
240
220
200
180
160
140

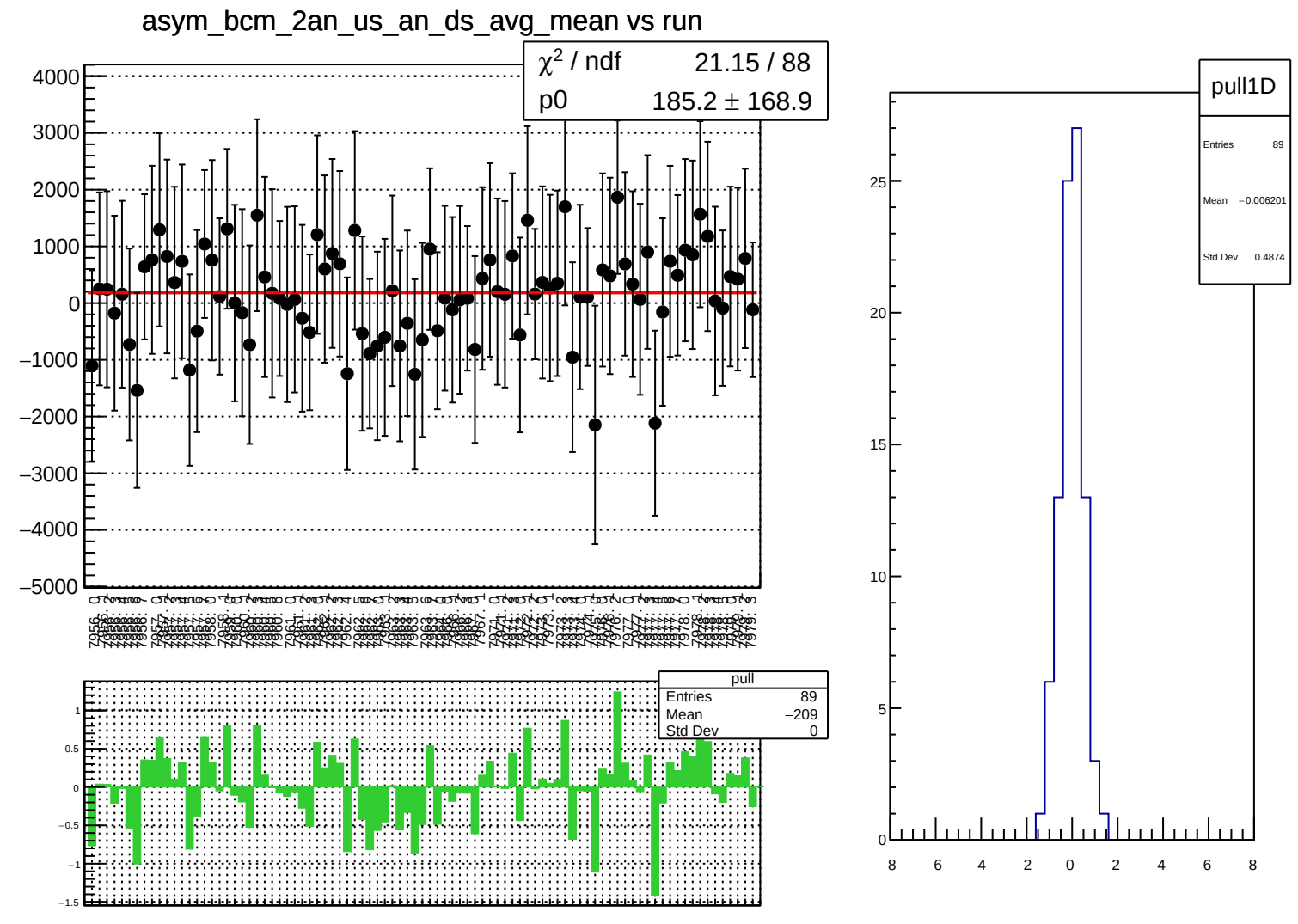

asym_bpm1i04WS_mean vs run
χ² / ndf 839.9 / 88
p0 −8540 ± 157.7
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −1302
Std Dev 0
pull1D
Entries 89
Mean 0.0235
Std Dev 3.072

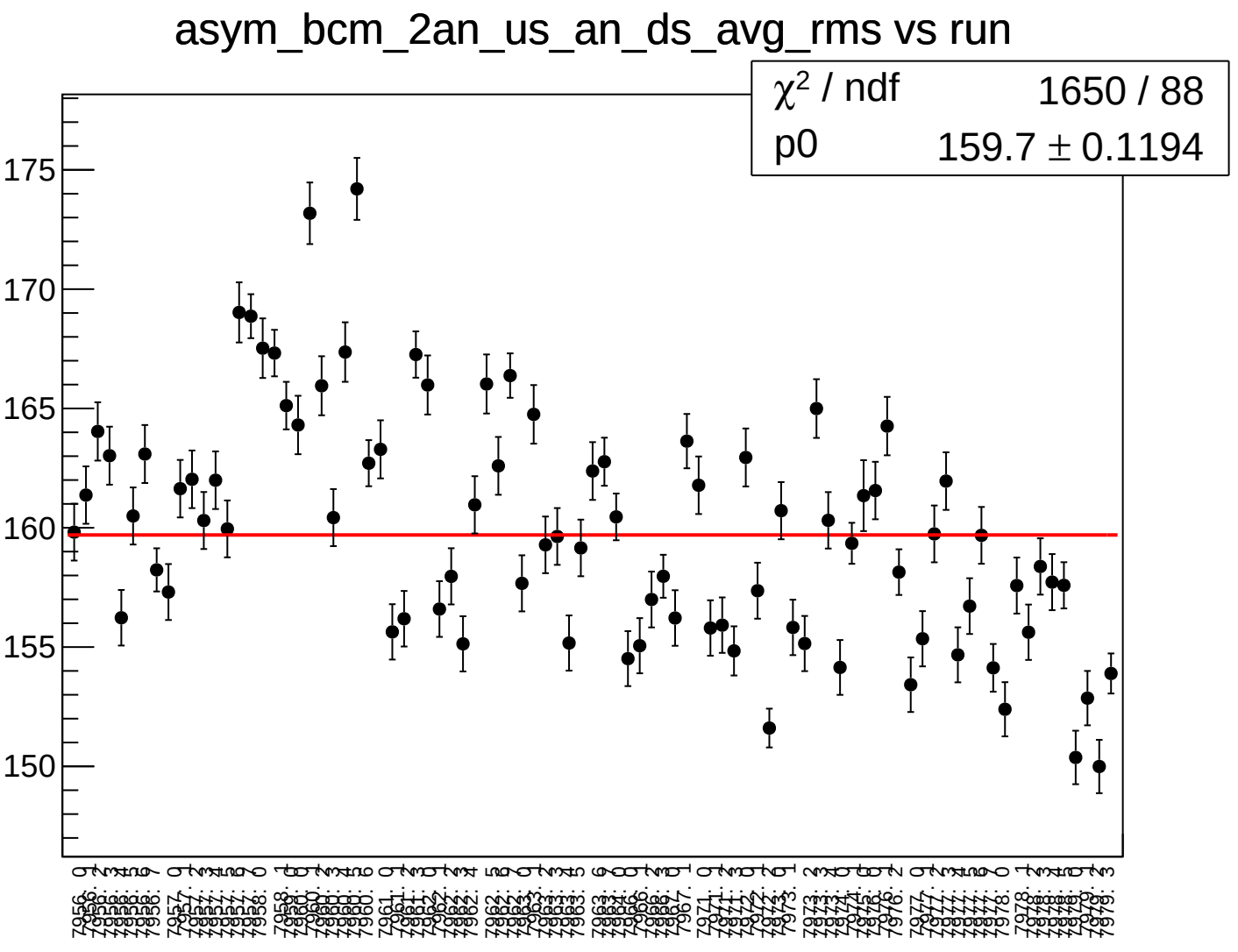

asym_bpm1i04WS_rms vs run
$\chi^2$ / ndf 6432 / 88
p0 149 ± 0.1115
220
200
180
160
140

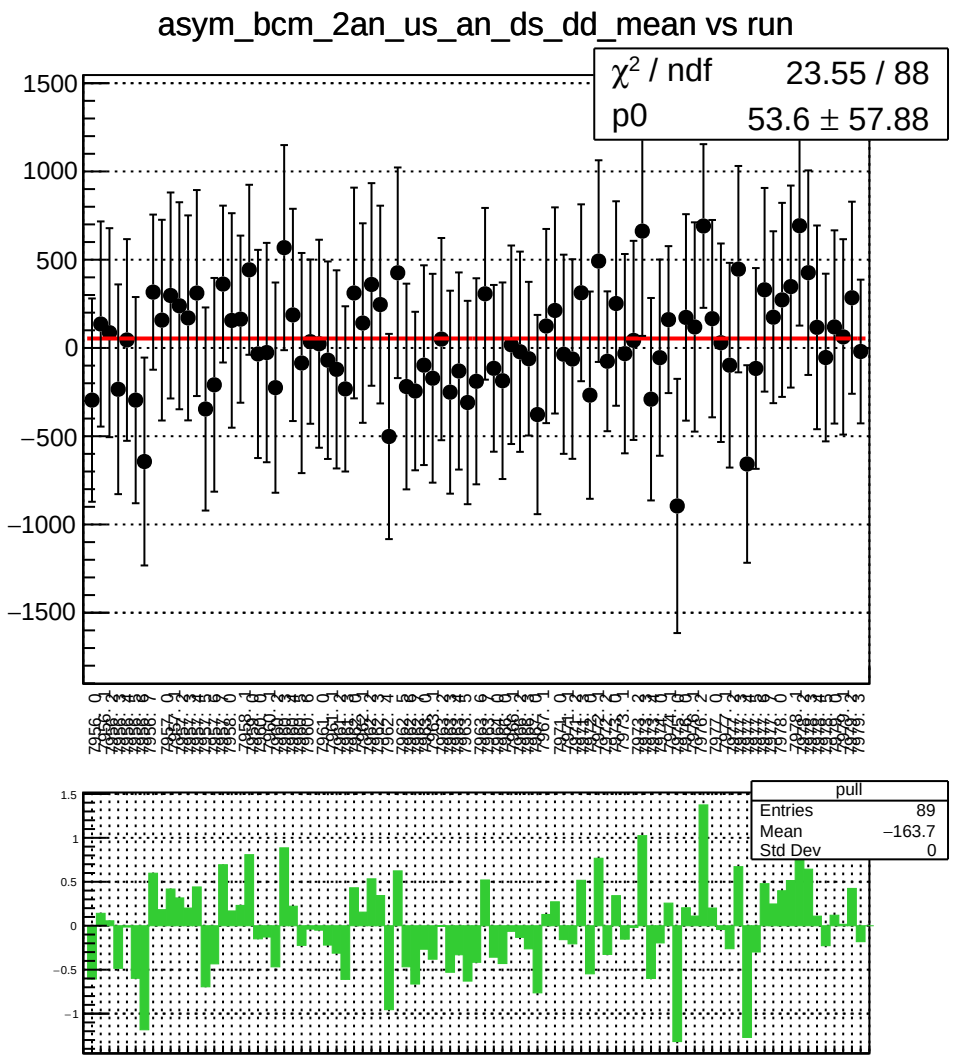

asym_bpm1i06WS_mean vs run
χ² / ndf 812.6 / 88
p0 −1.014e+04 ± 204.3
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 89
Mean −1700
Std Dev 0
6
4
2
0
−2
−4

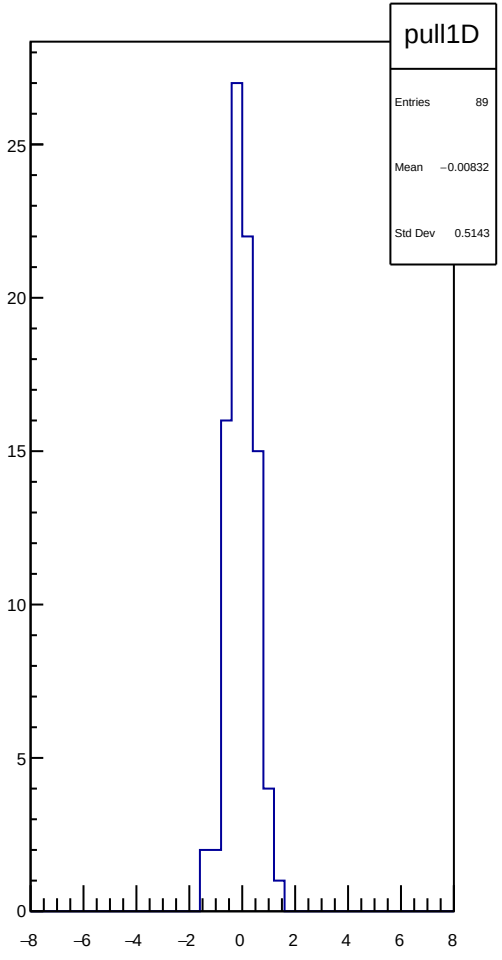

pull1D
Entries 89
Mean 0.01907
Std Dev 3.022
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

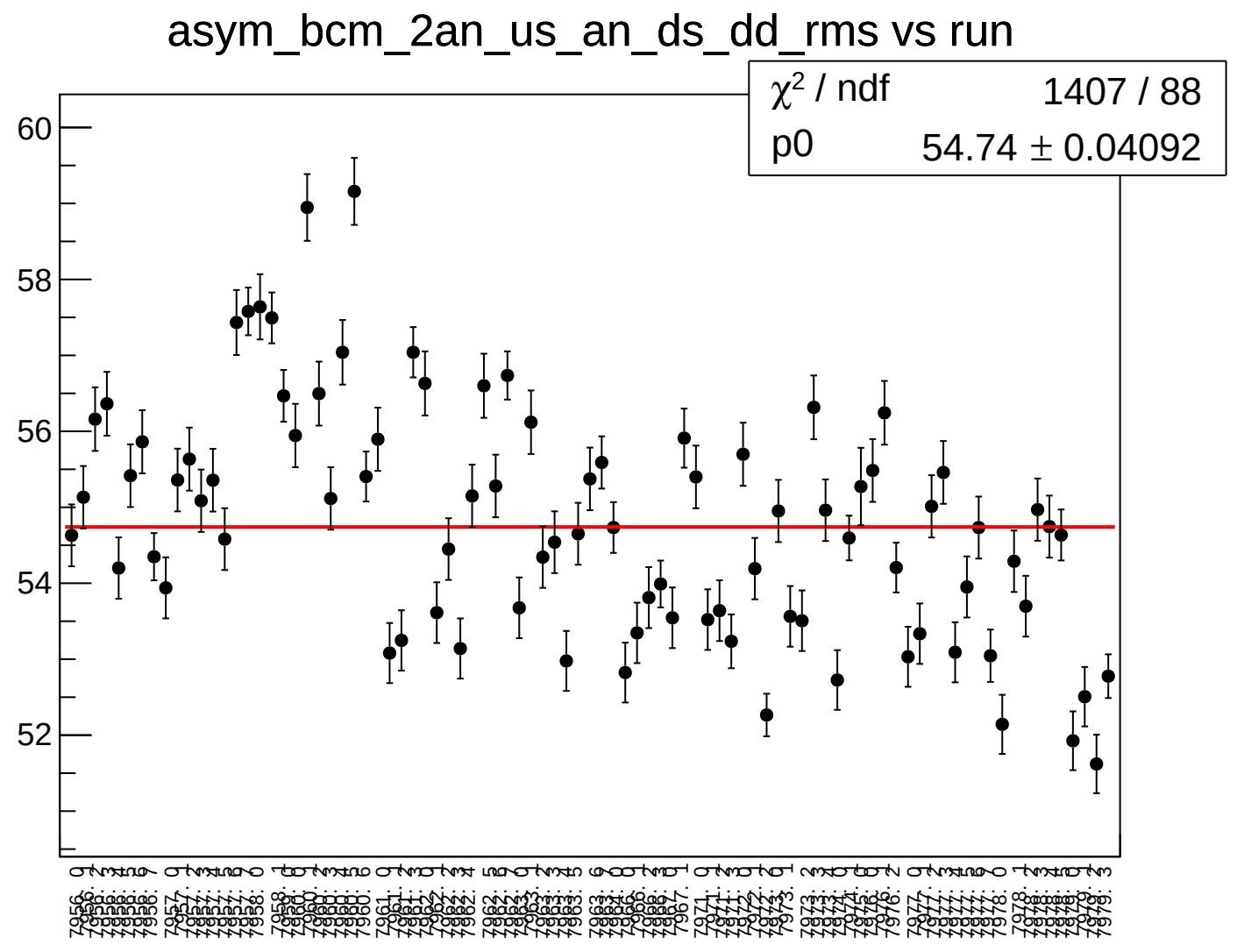

asym_bpm1i06WS_rms vs run
χ² / ndf 7324 / 88
p0 192.9 ± 0.1445
300
280
260
240
220
200
180
160

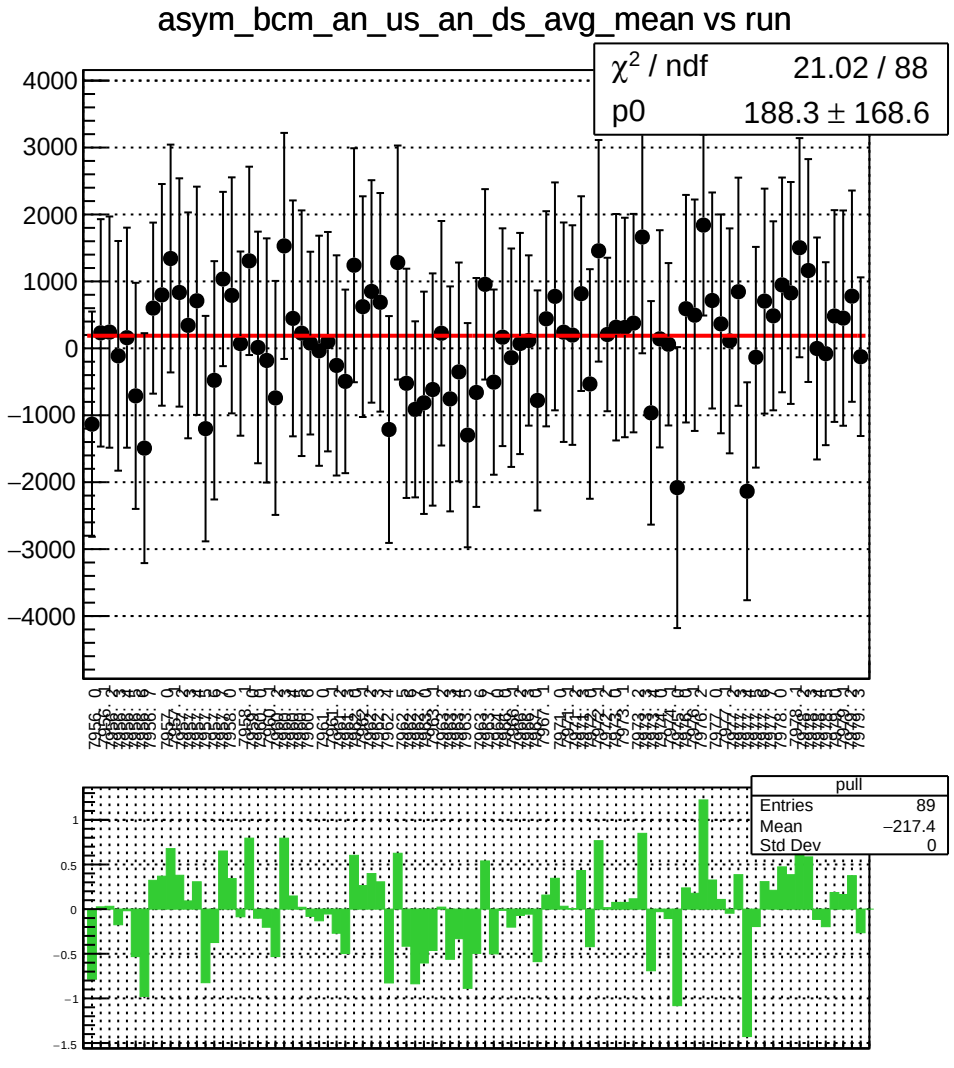

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 21.15 / 88
p0 185.2 ± 168.9
pull
Entries 89
Mean −209
Std Dev 0
pull1D
Entries 89
Mean −0.006201
Std Dev 0.4874

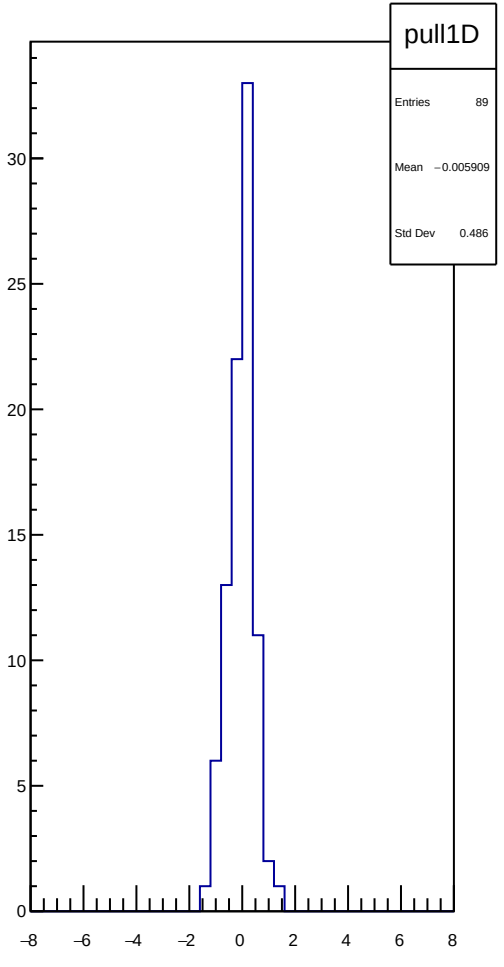

asym_bcm_2an_us_an_ds_avg_rms vs run
$\chi^2$ / ndf 1650 / 88
p0 159.7 ± 0.1194
175
170
165
160
155
150

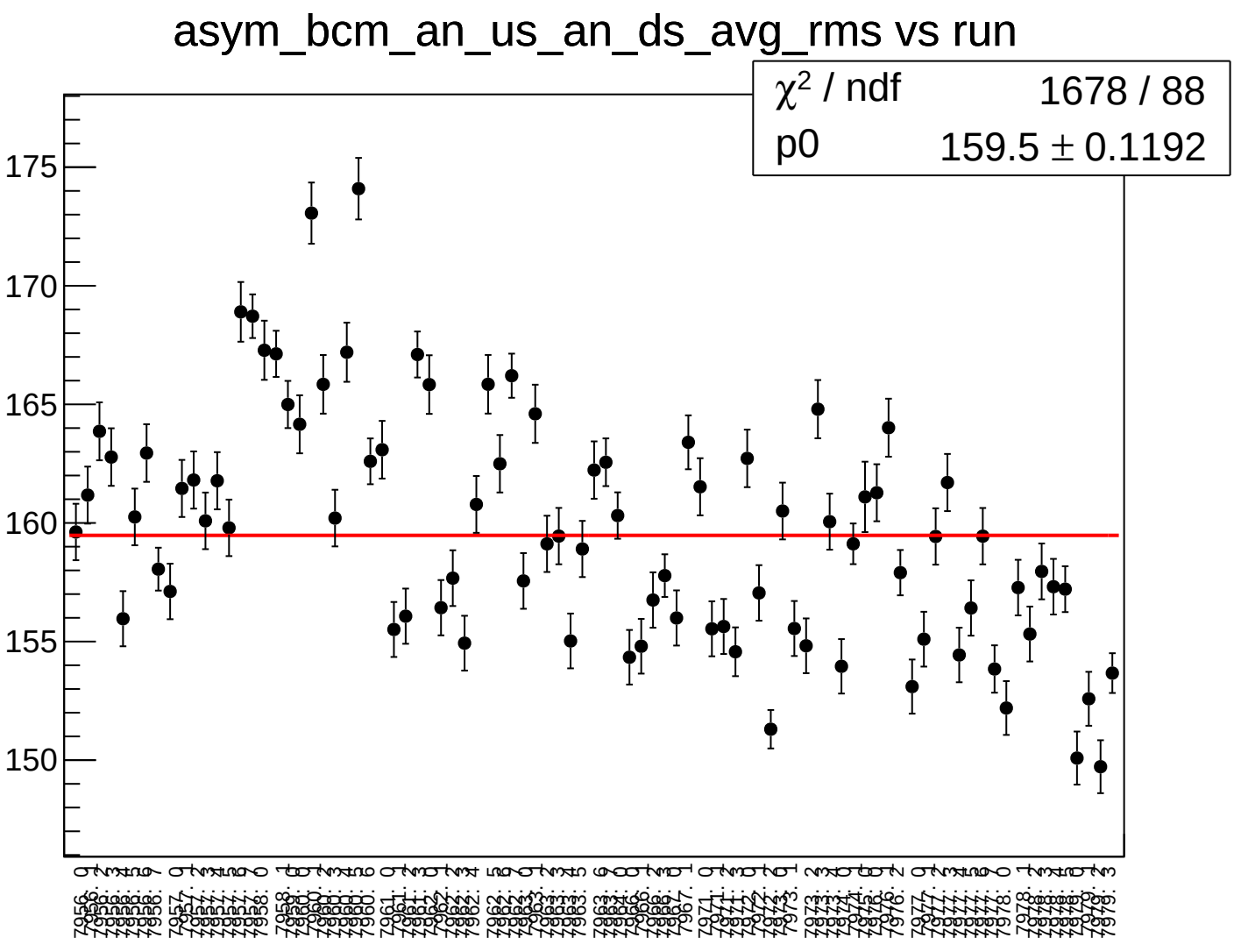

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 23.55 / 88
p0 53.6 ± 57.88
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −163.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

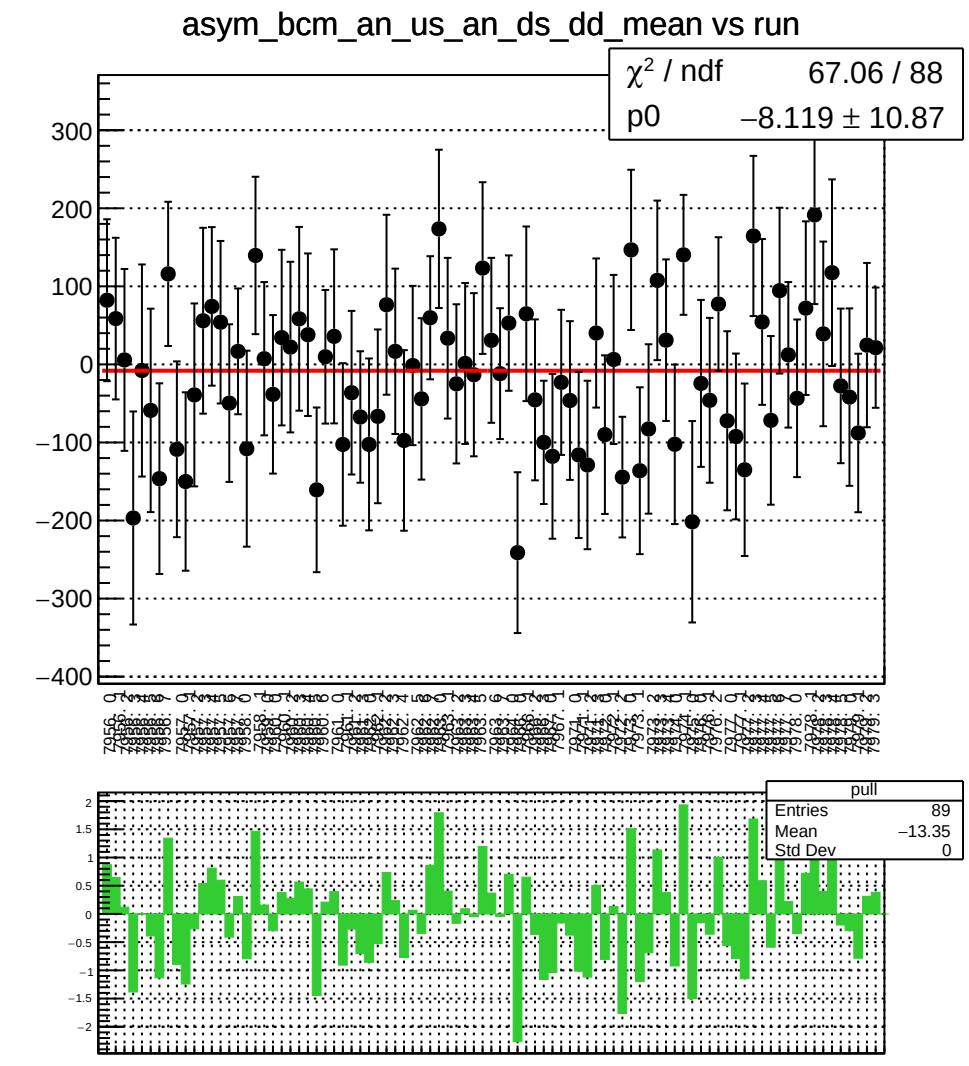

pull1D
Entries 89
Mean −0.00832
Std Dev 0.5143
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

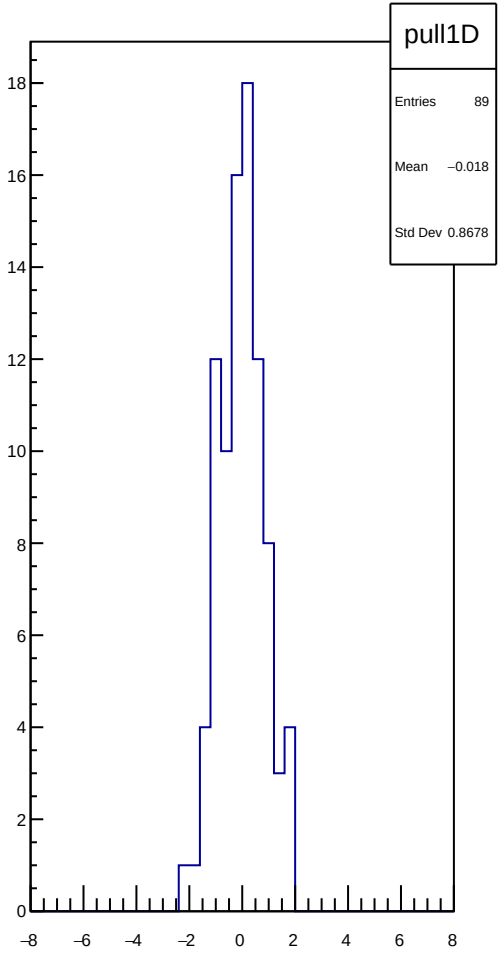

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1407 / 88
p0 54.74 ± 0.04092
60
58
56
54
52

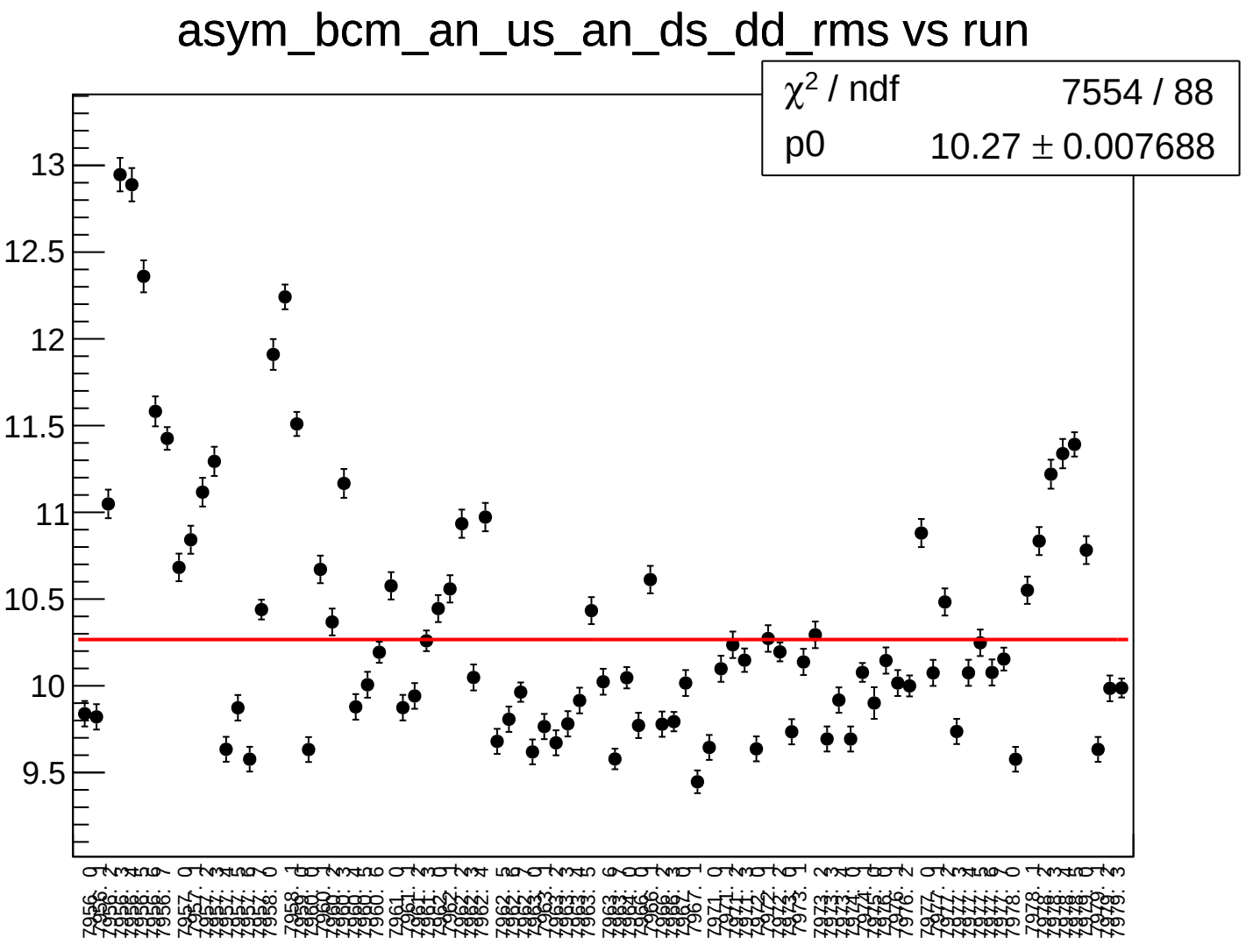

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 21.02 / 88
p0 188.3 ± 168.6
pull
Entries 89
Mean −217.4
Std Dev 0

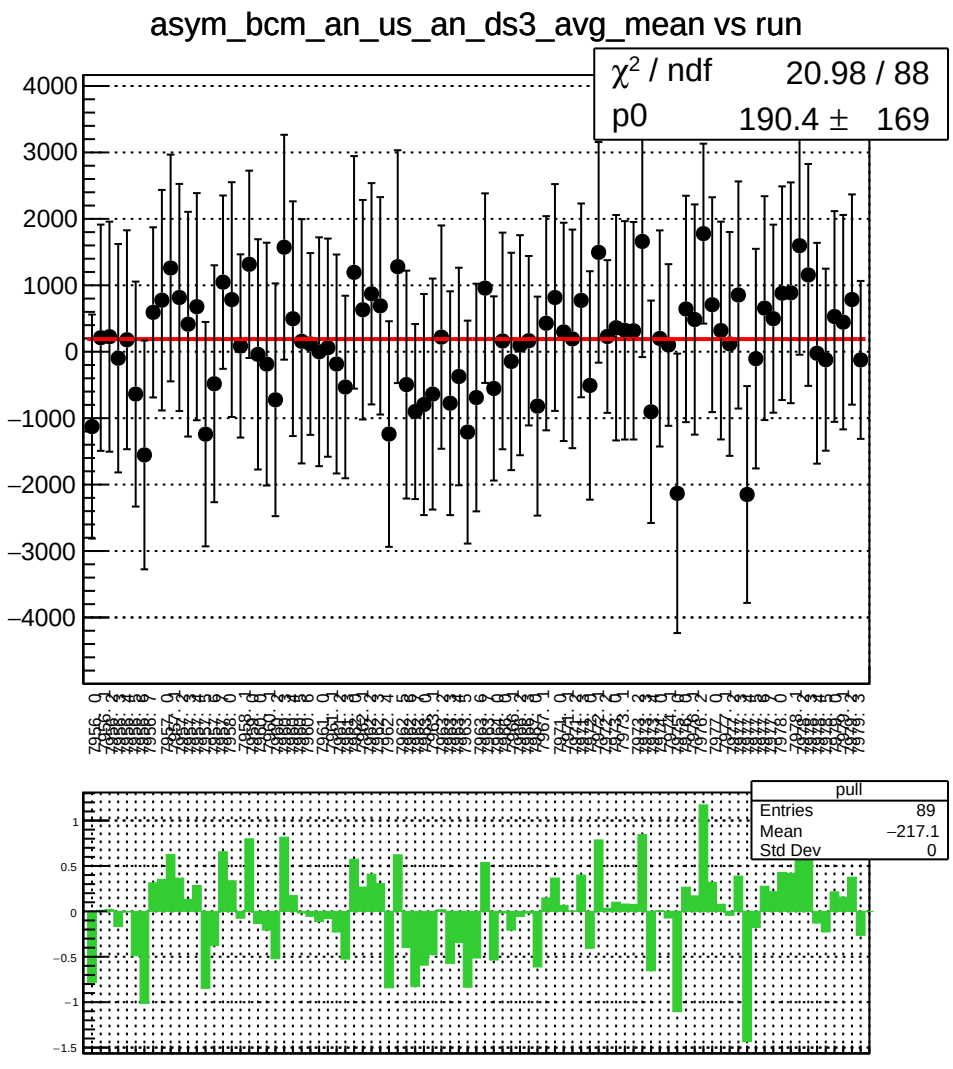

pull1D
Entries 89
Mean −0.005909
Std Dev 0.486

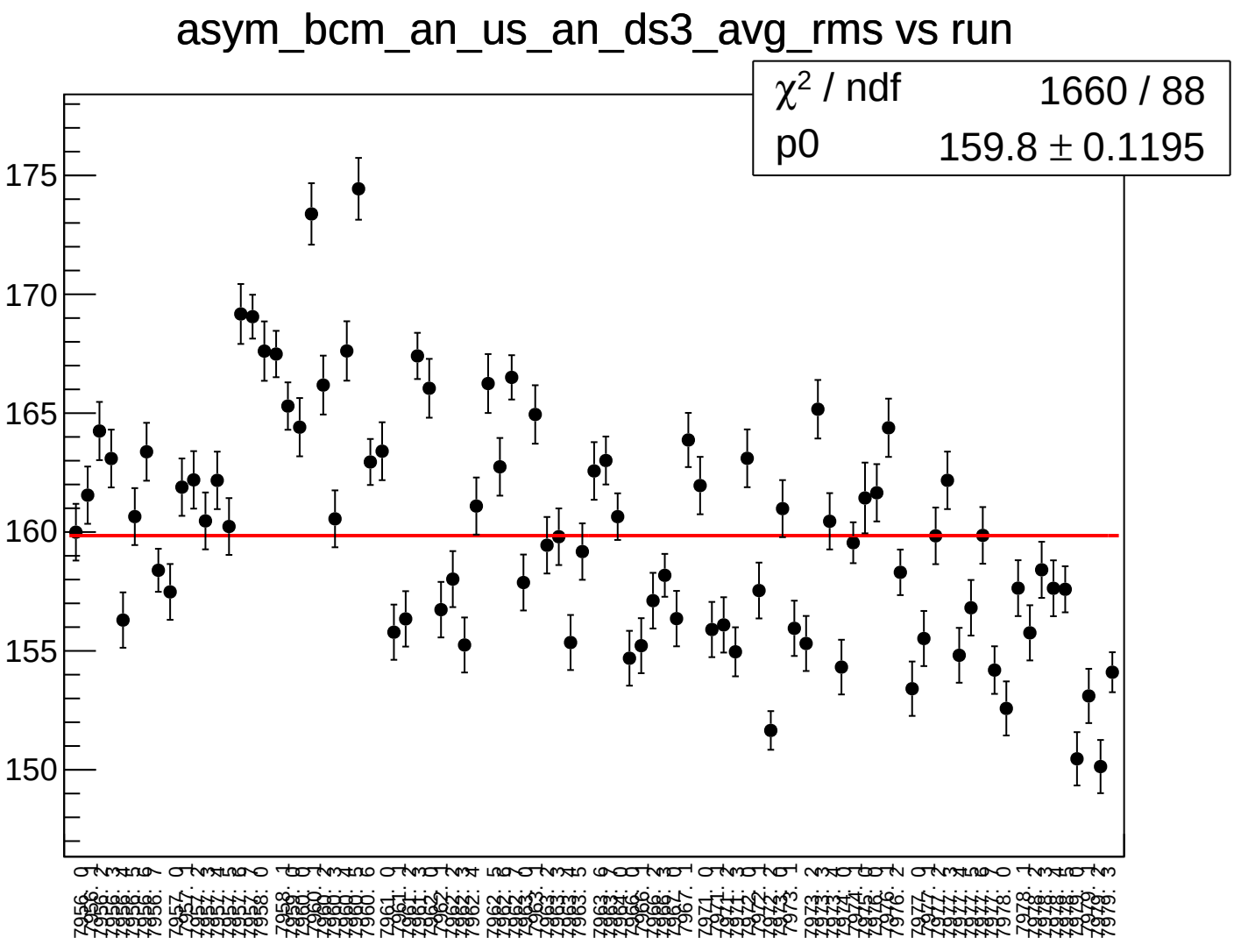

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1678 / 88
p0 159.5 ± 0.1192
175
170
165
160
155
150

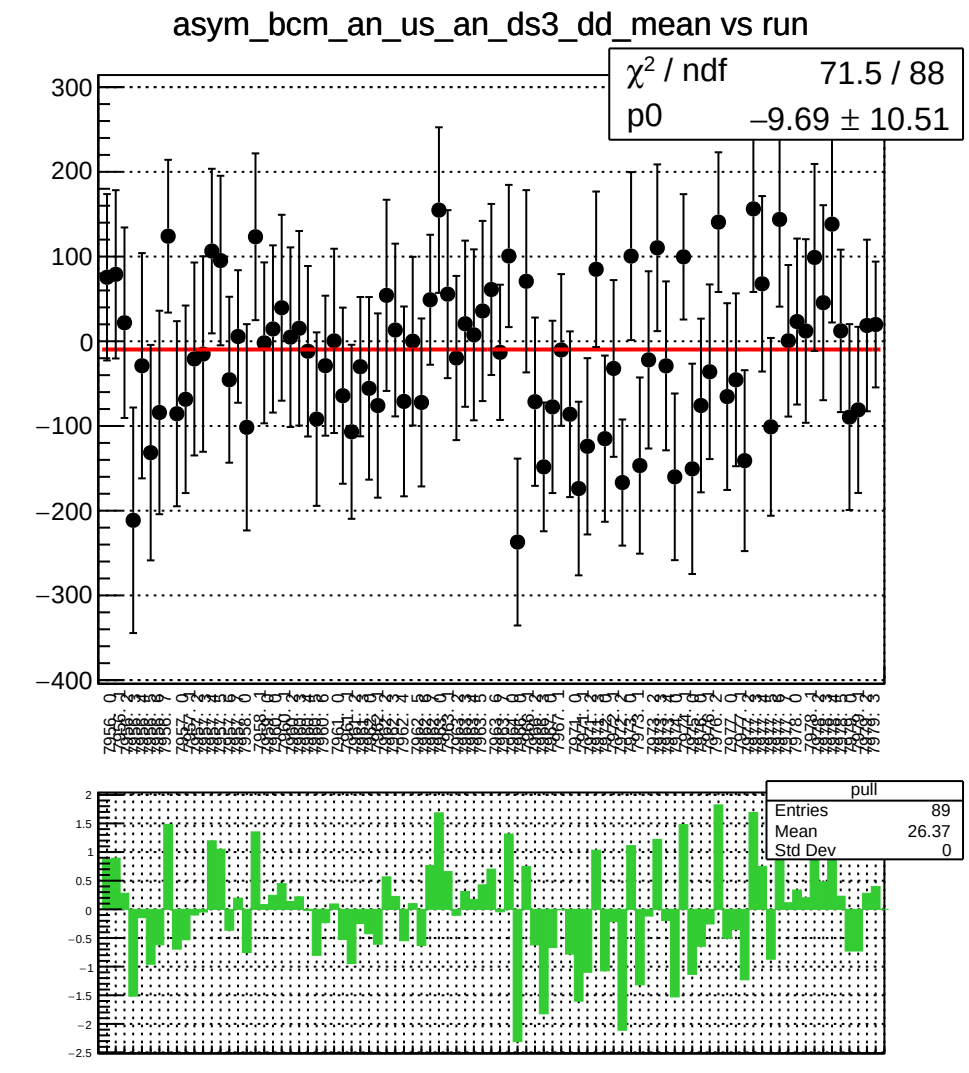

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 67.06 / 88
p0 −8.119 ± 10.87
pull
Entries 89
Mean −13.35
Std Dev 0

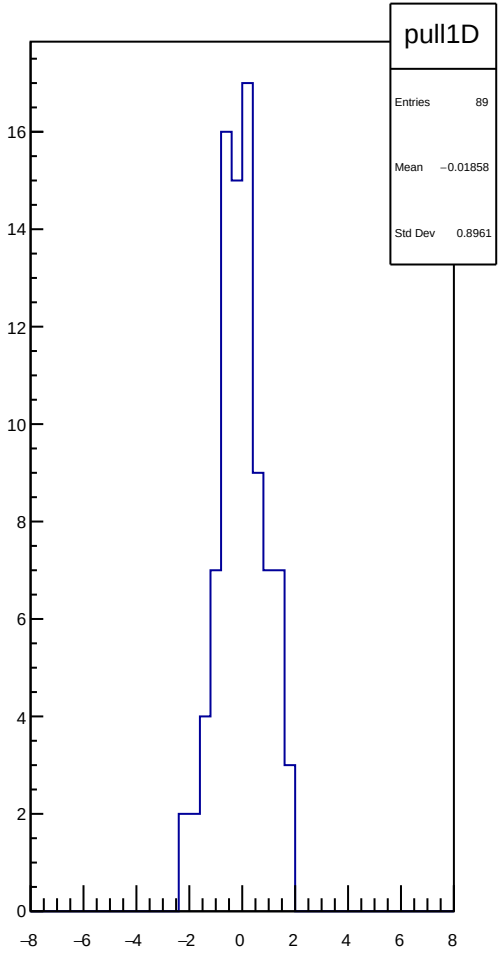

pull1D
Entries 89
Mean −0.018
Std Dev 0.8678

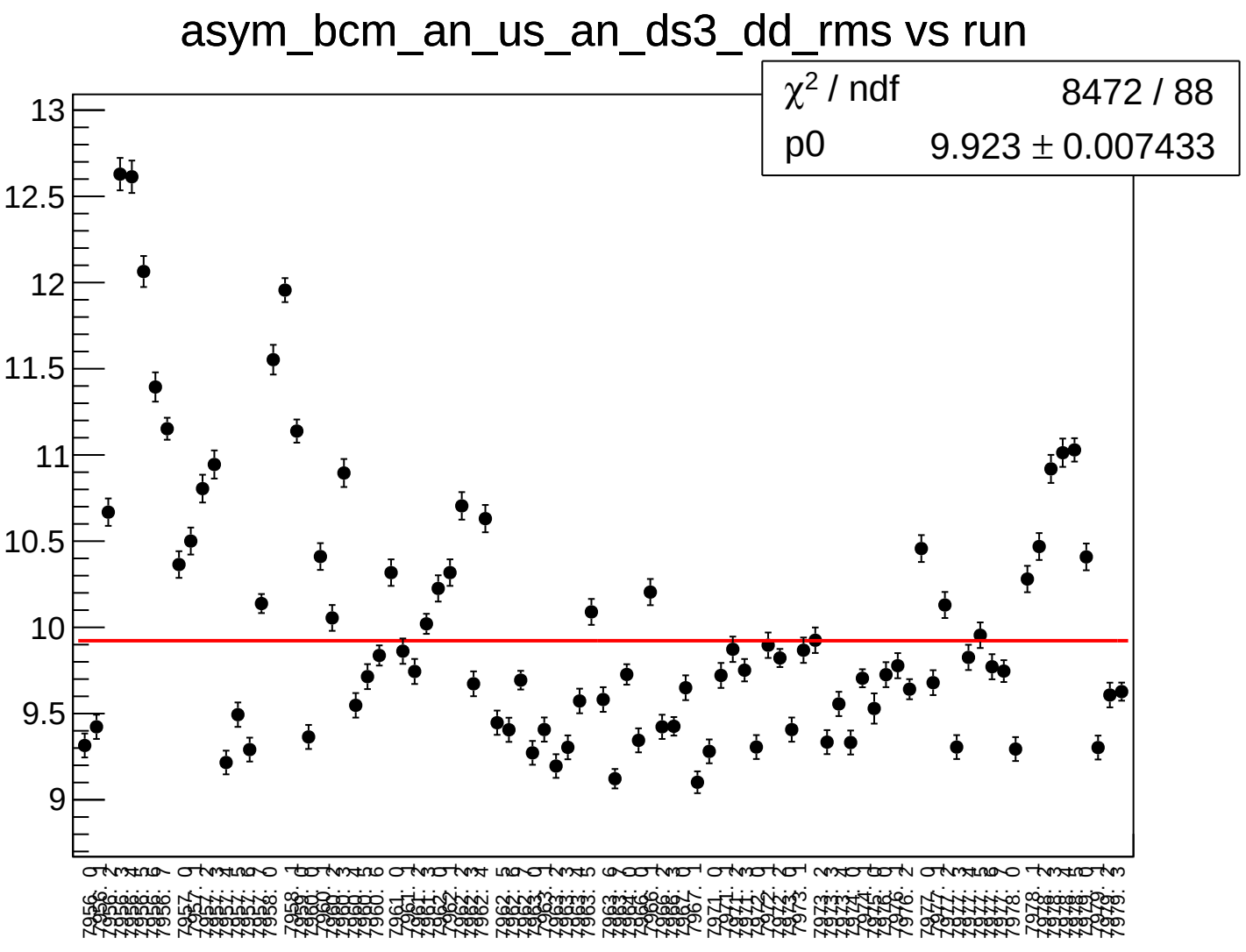

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 7554 / 88
p0 10.27 ± 0.007688
13
12.5
12
11.5
11
10.5
10
9.5

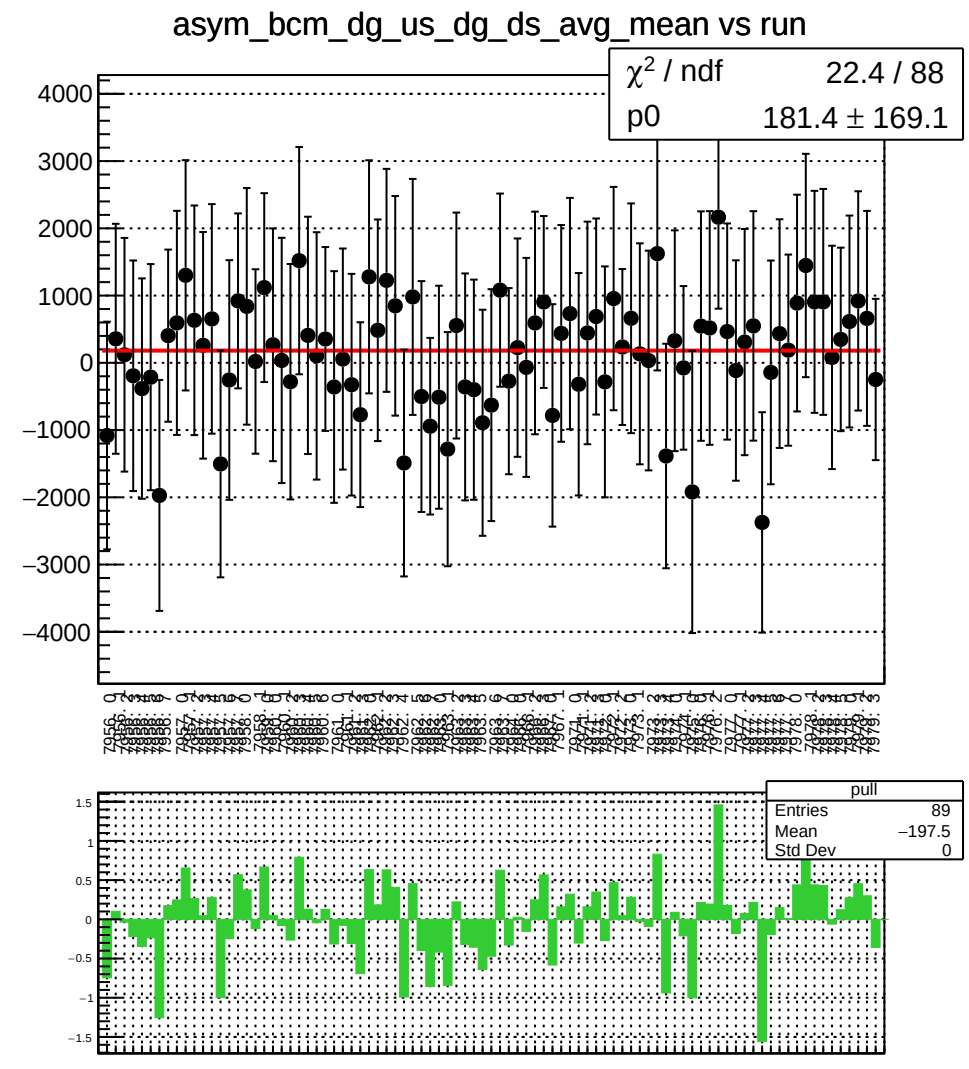

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 20.98 / 88
p0 190.4 ± 169
pull
Entries 89
Mean −217.1
Std Dev 0
pull1D
Entries 89
Mean −0.006045
Std Dev 0.4855

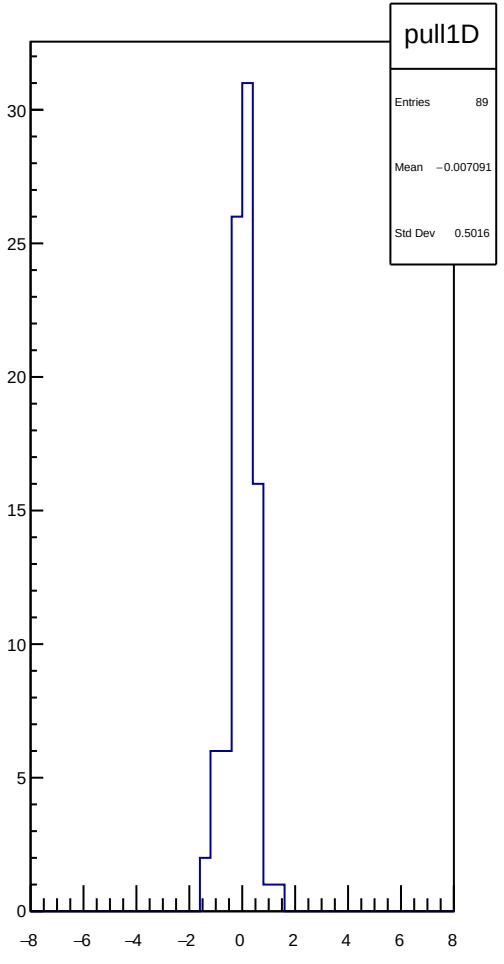

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1660 / 88
p0 159.8 ± 0.1195
175
170
165
160
155
150

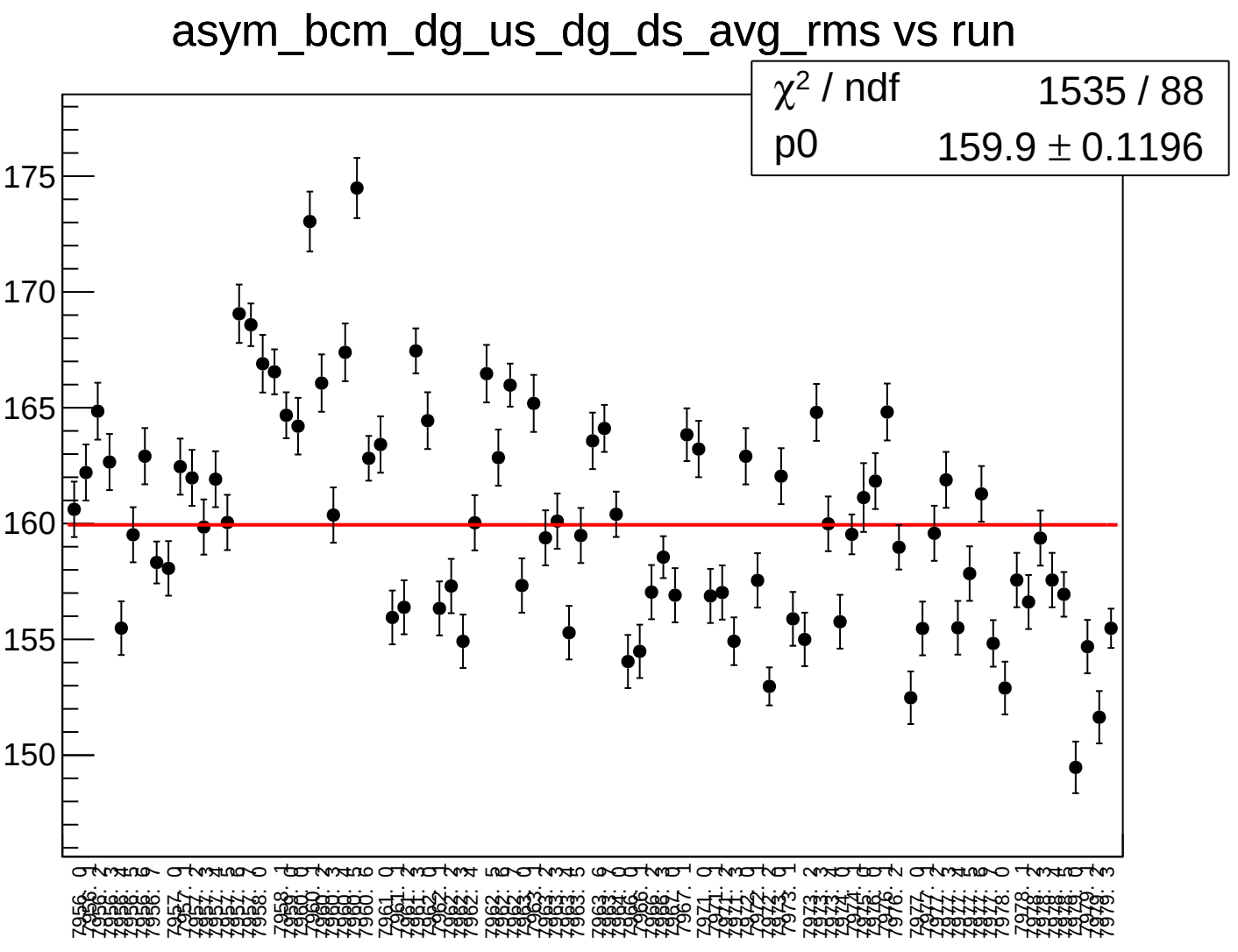

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 71.5 / 88
p0 −9.69 ± 10.51
pull
Entries 89
Mean 26.37
Std Dev 0

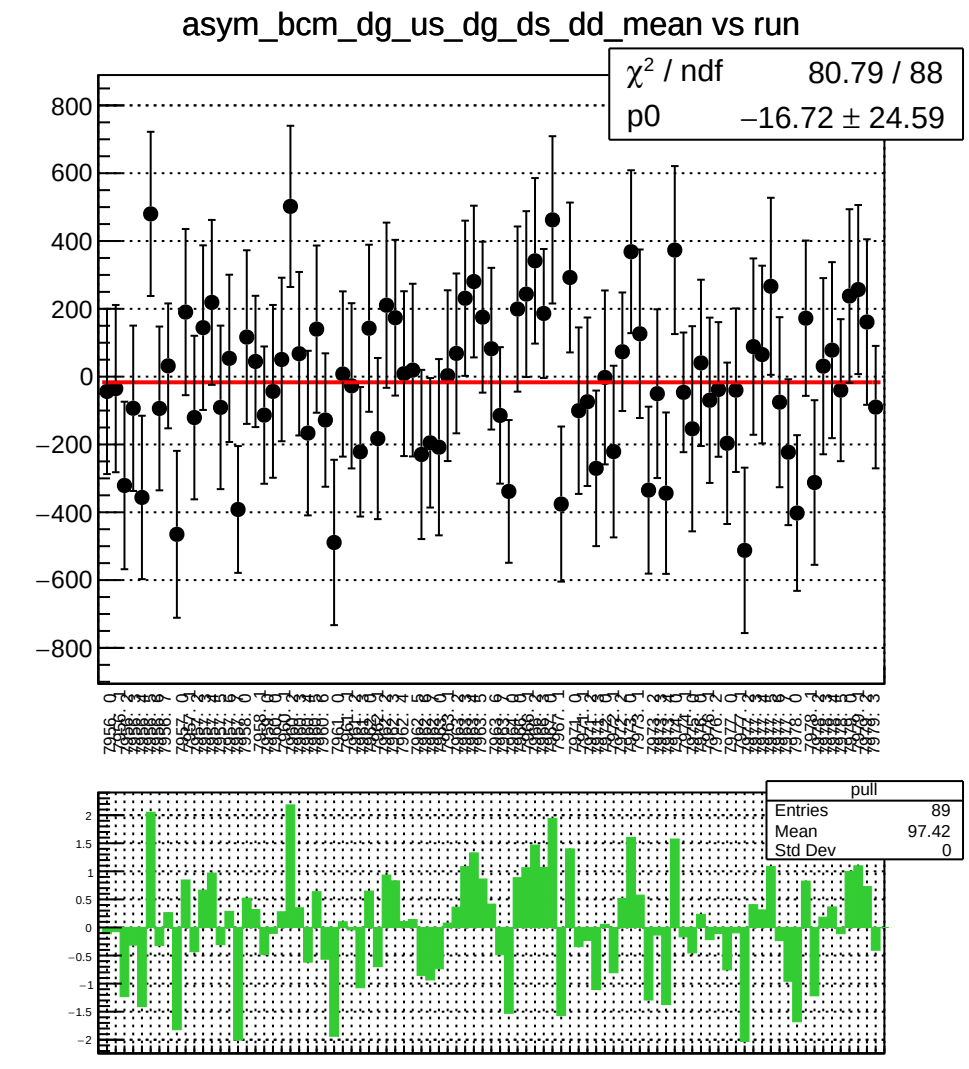

pull1D
Entries 89
Mean −0.01858
Std Dev 0.8961

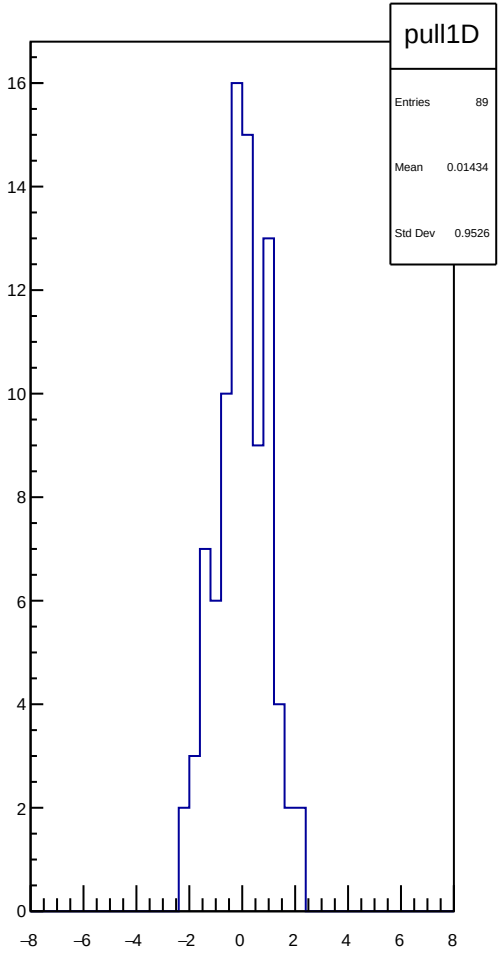

asym_bcm_an_us_an_ds3_dd_rms vs run
$\chi^2$ / ndf 8472 / 88
p0 9.923 ± 0.007433
13
12.5
12
11.5
11
10.5
10
9.5
9

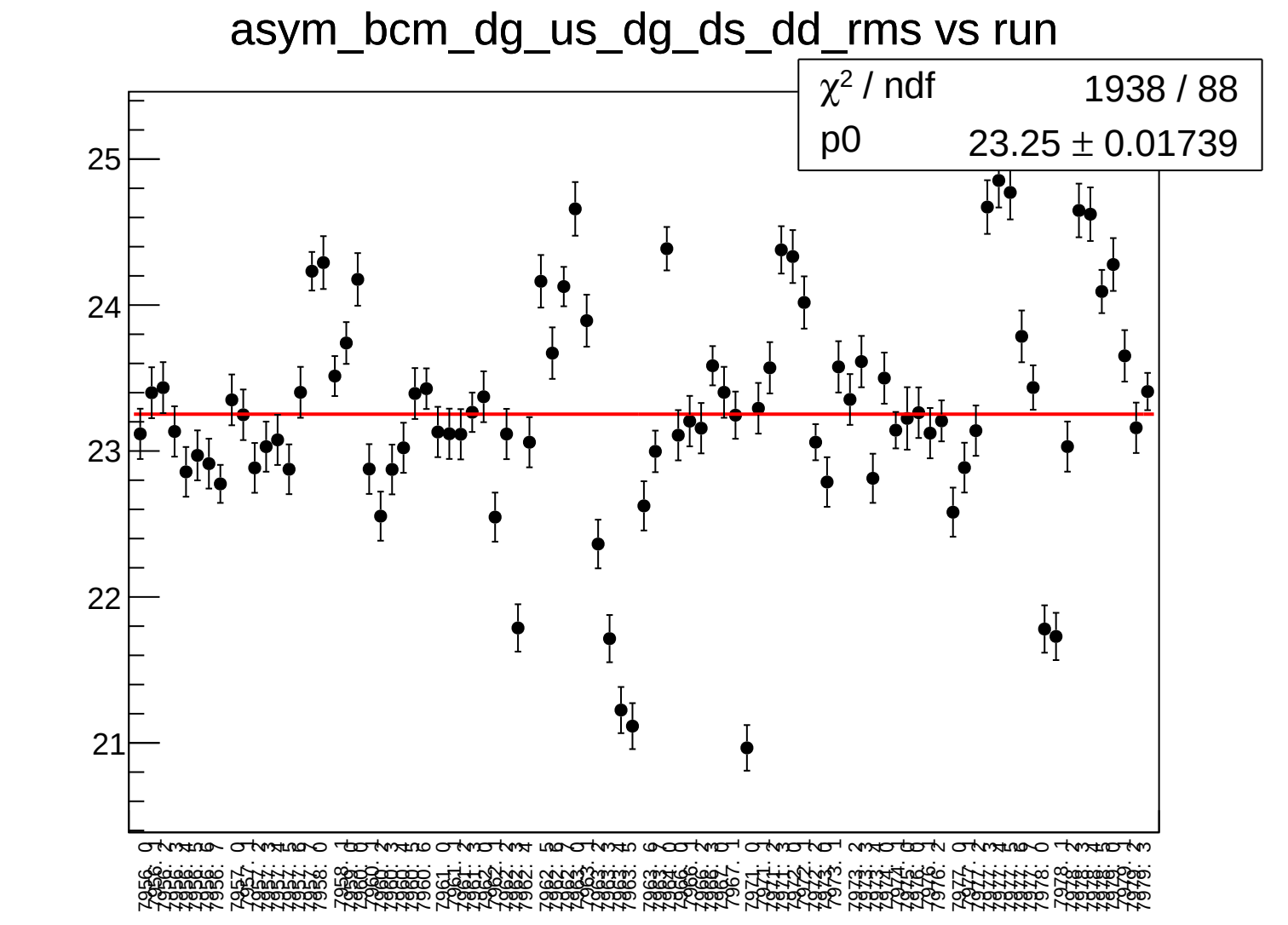

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 22.4 / 88
p0 181.4 ± 169.1
pull
Entries 89
Mean −197.5
Std Dev 0

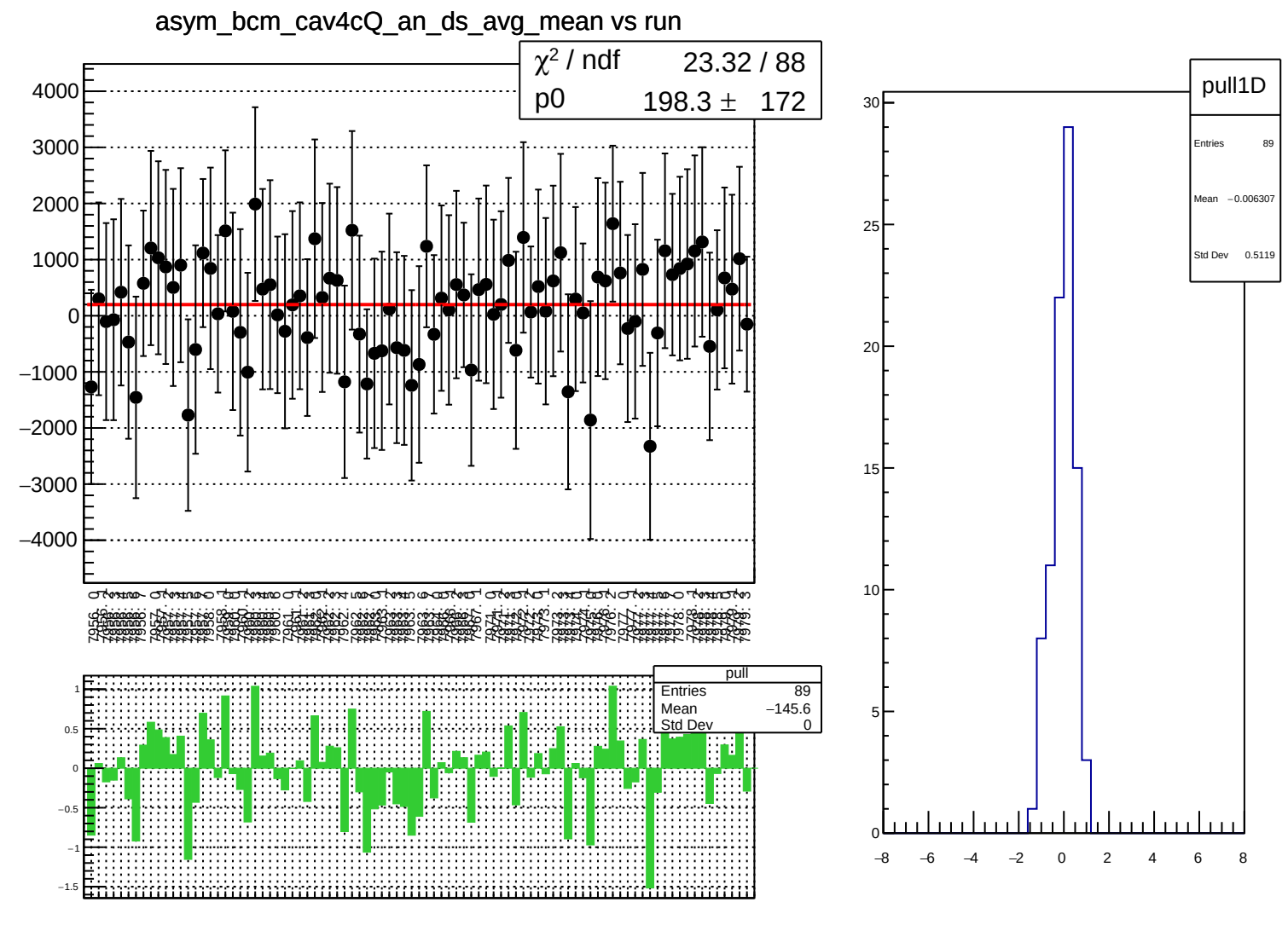

pull1D
Entries 89
Mean −0.007091
Std Dev 0.5016

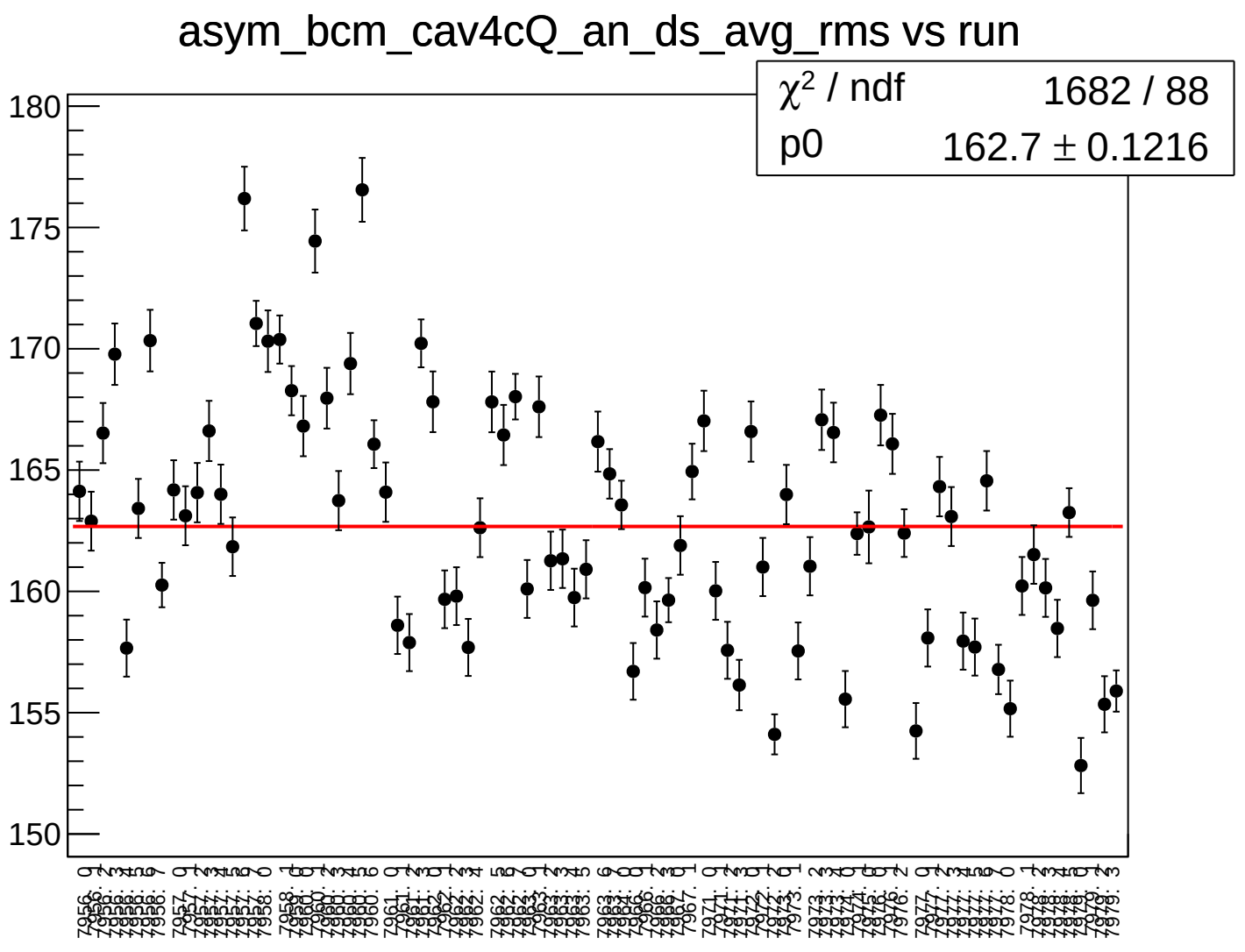

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1535 / 88
p0 159.9 ± 0.1196
175
170
165
160
155
150

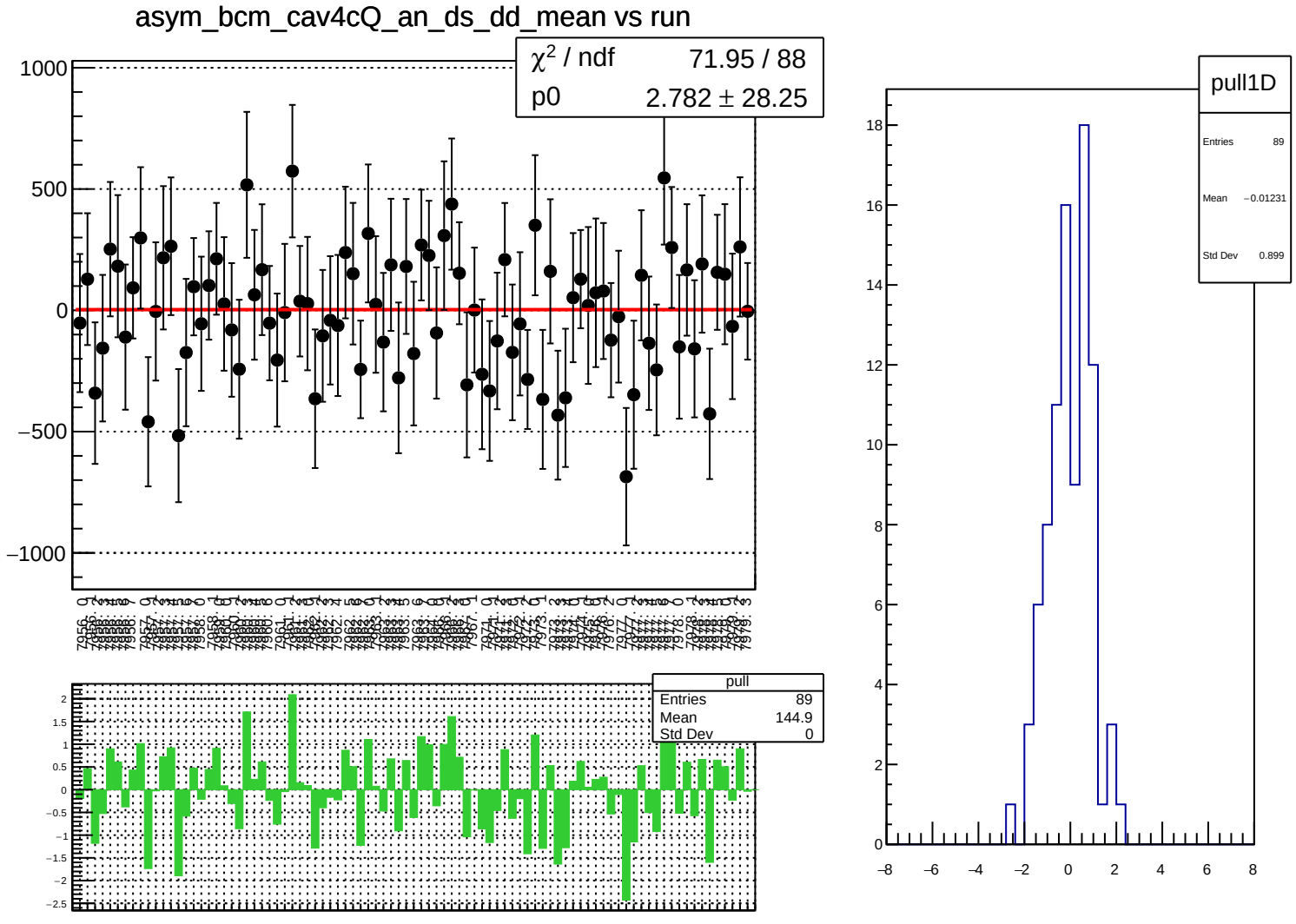

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 80.79 / 88
p0 −16.72 ± 24.59
pull
Entries 89
Mean 97.42
Std Dev 0

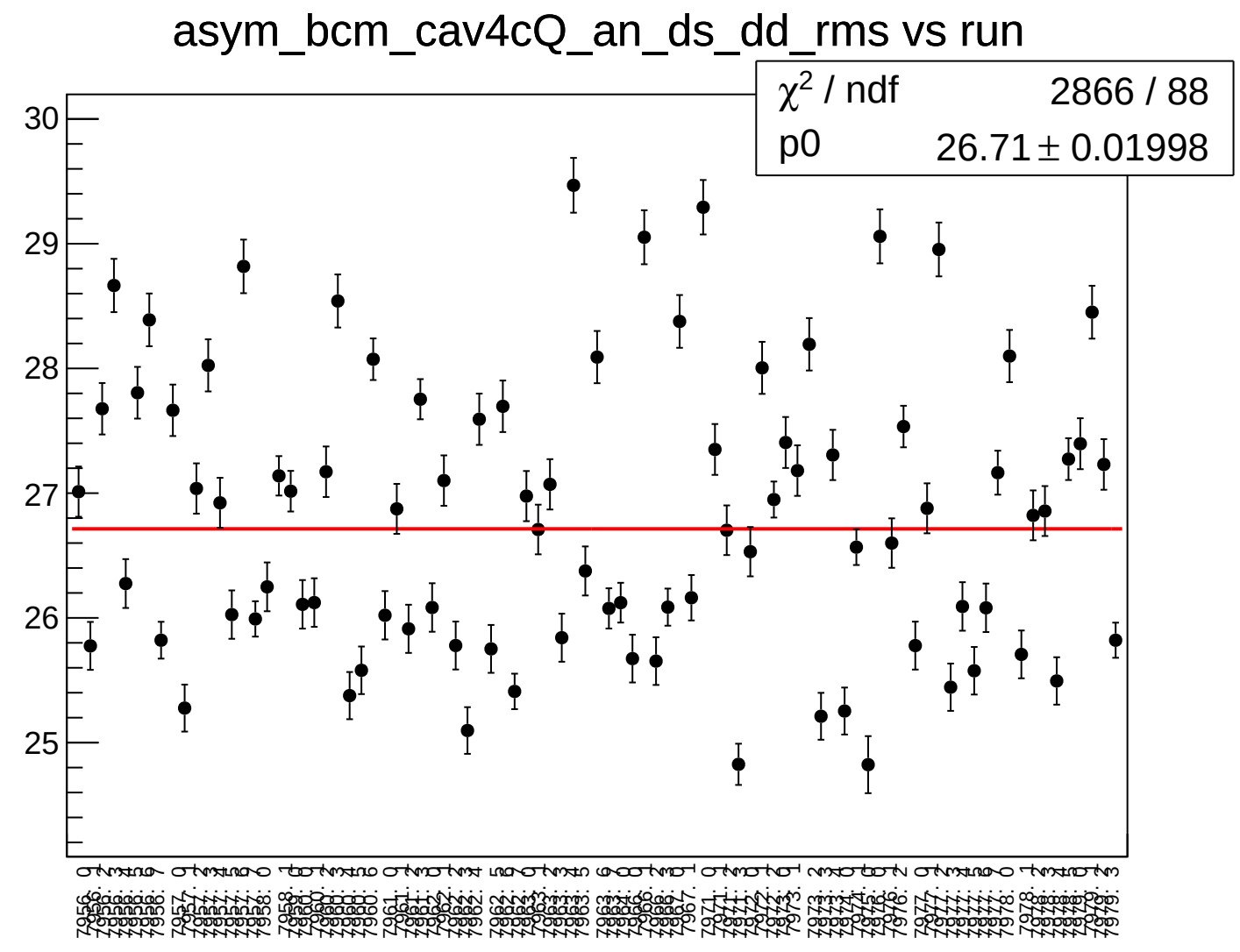

pull1D
Entries 89
Mean 0.01434
Std Dev 0.9526

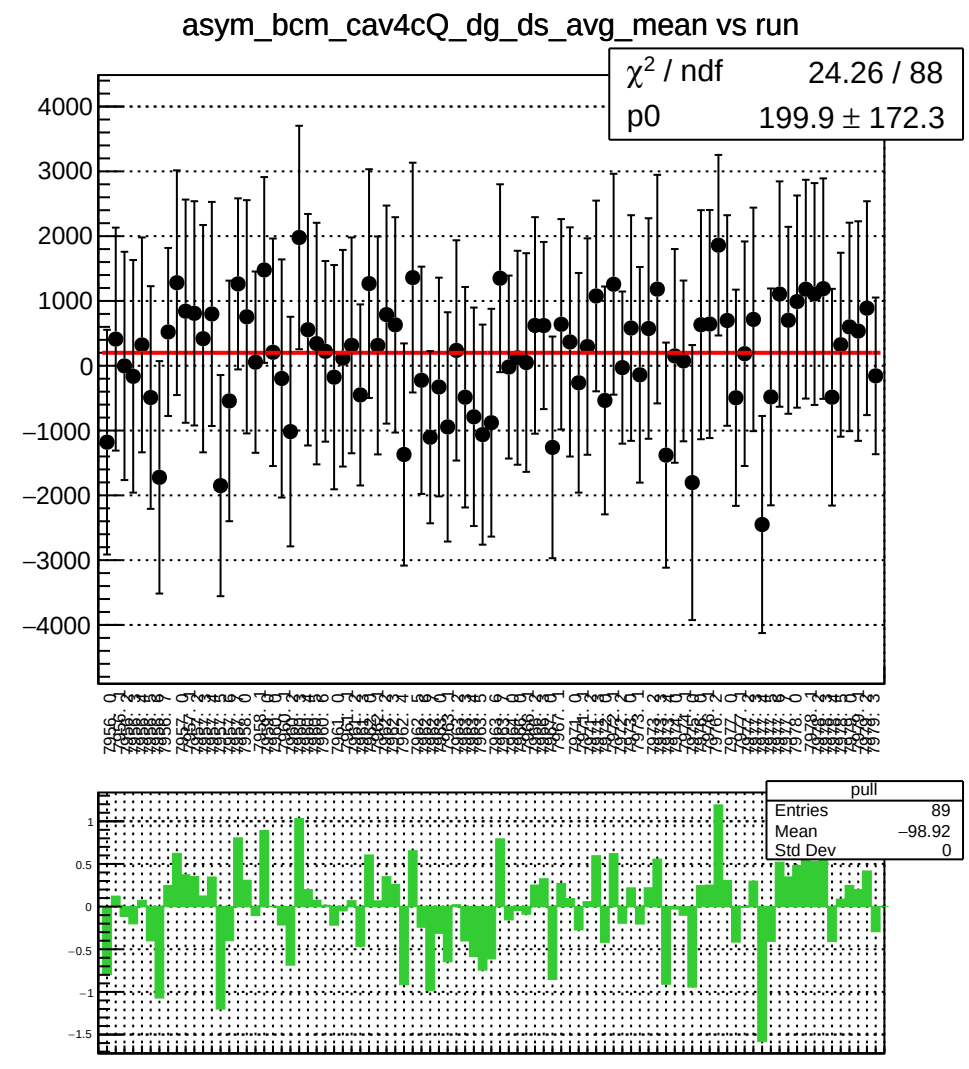

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1938 / 88
p0 23.25 ± 0.01739
25
24
23
22
21

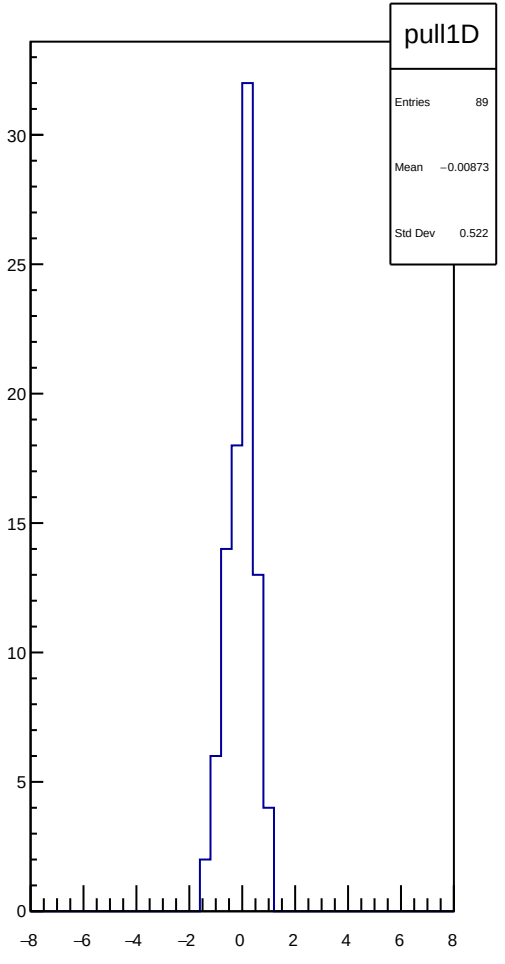

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 23.32 / 88
p0 198.3 ± 172
pull
Entries 89
Mean −145.6
Std Dev 0
pull1D
Entries 89
Mean −0.006307
Std Dev 0.5119

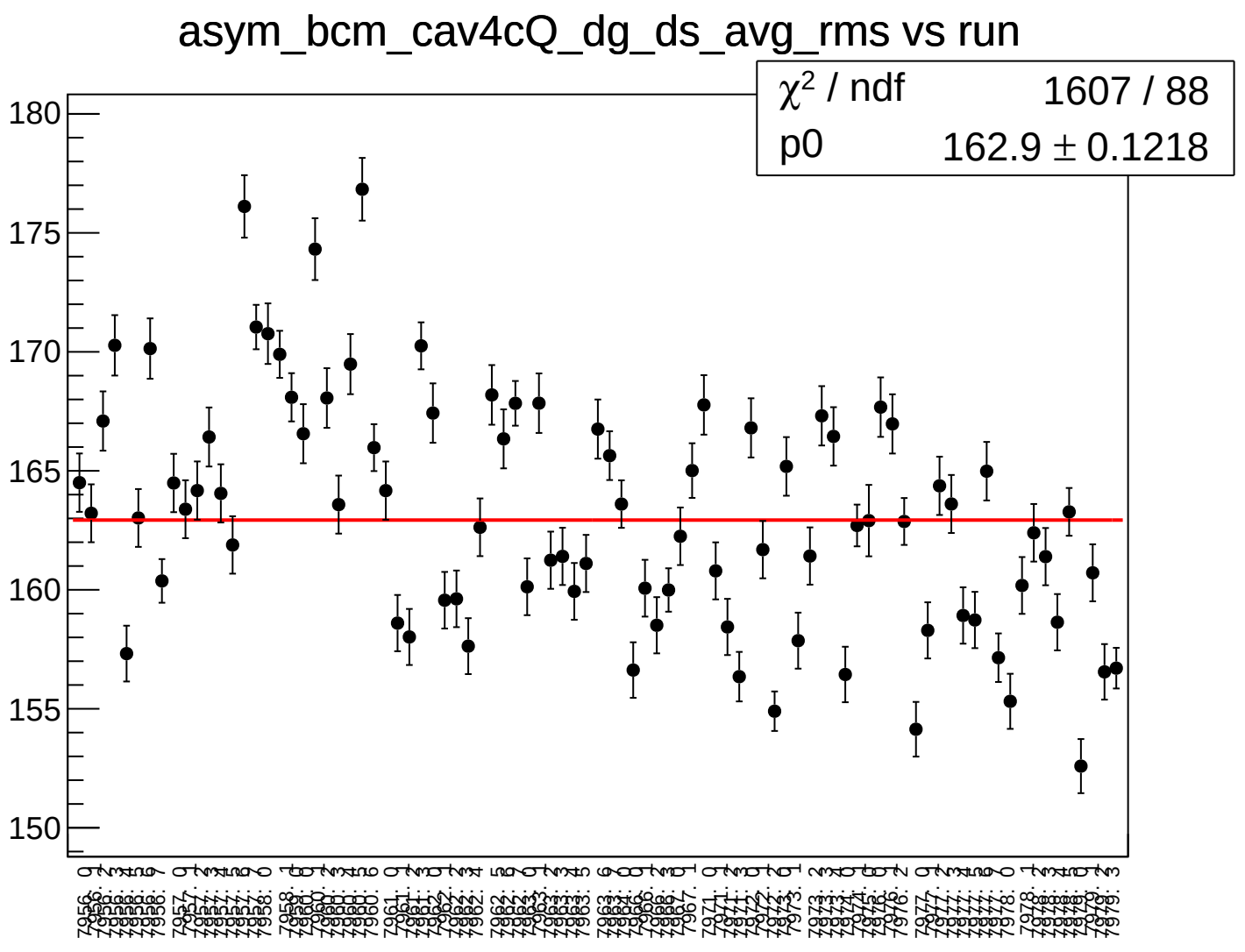

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1682 / 88
p0 162.7 ± 0.1216
180
175
170
165
160
155
150

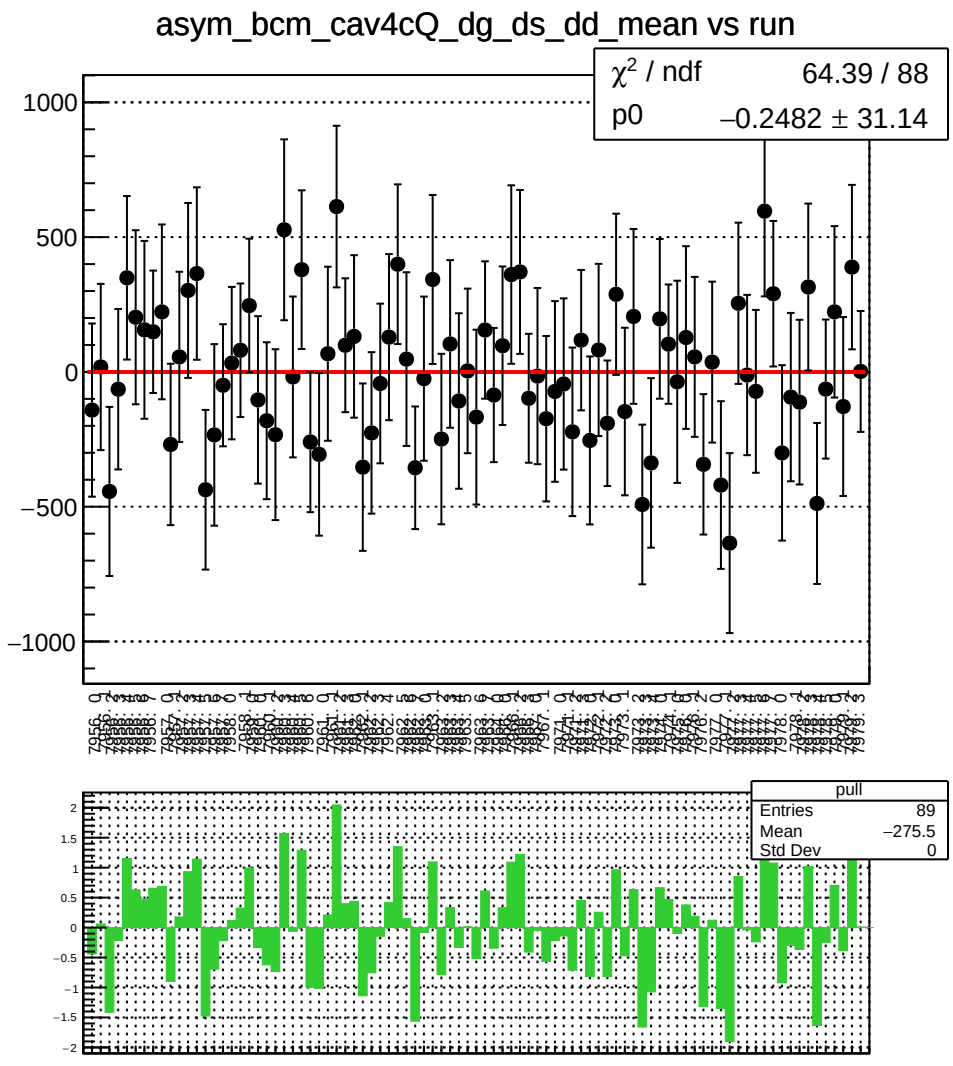

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 71.95 / 88
p0 2.782 ± 28.25
pull
Entries 89
Mean 144.9
Std Dev 0
pull1D
Entries 89
Mean −0.01231
Std Dev 0.899

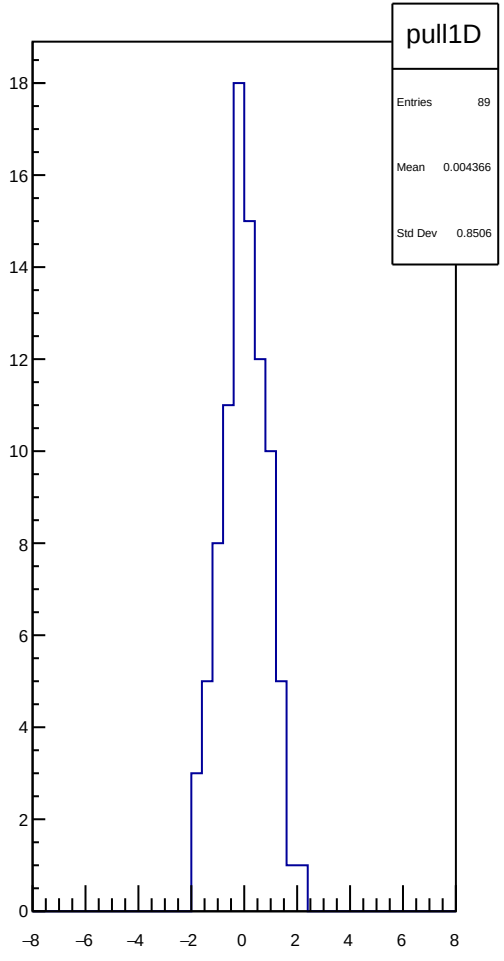

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2866 / 88
p0 26.71 ± 0.01998
30
29
28
27
26
25

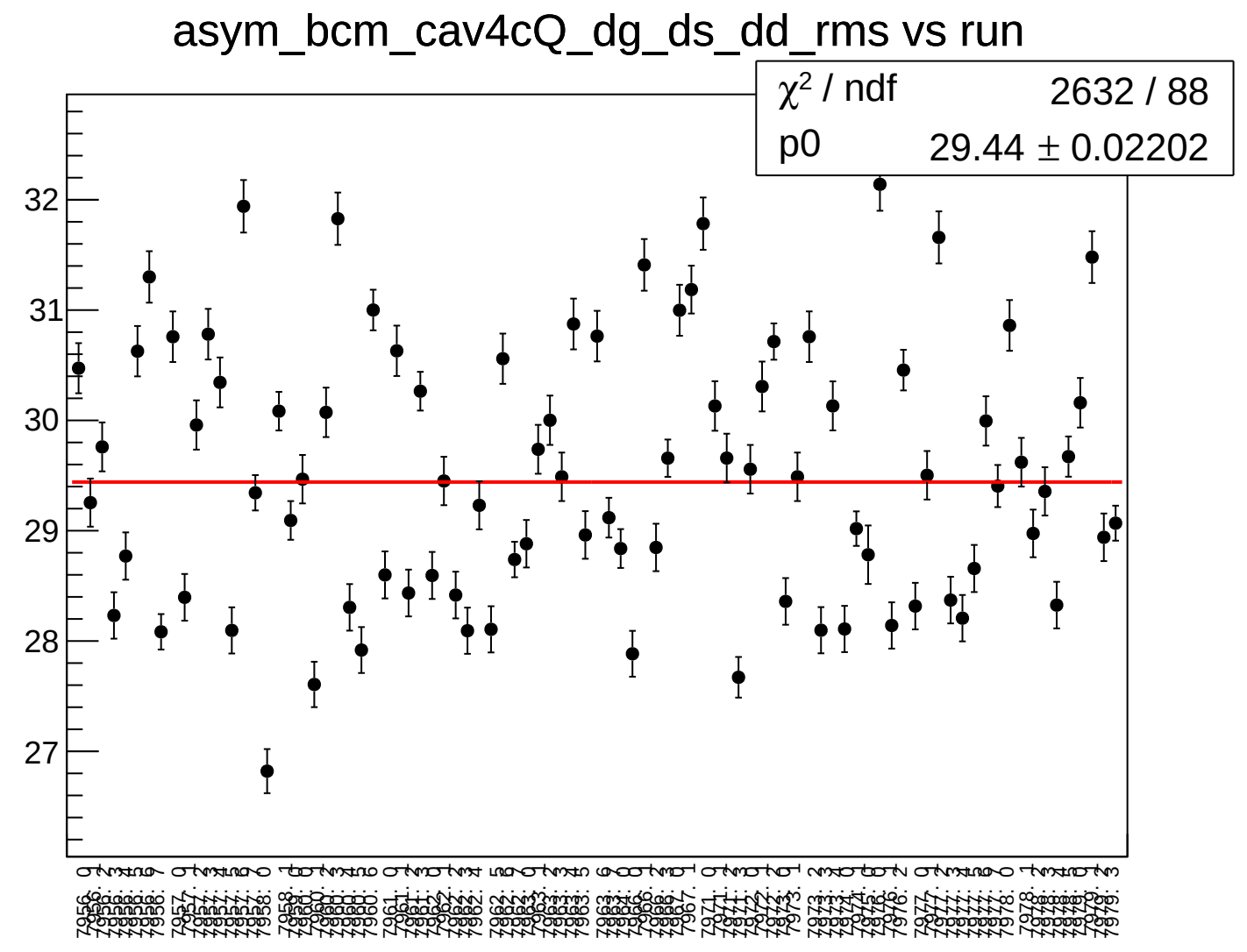

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 24.26 / 88
p0 199.9 ± 172.3
pull
Entries 89
Mean −98.92
Std Dev 0

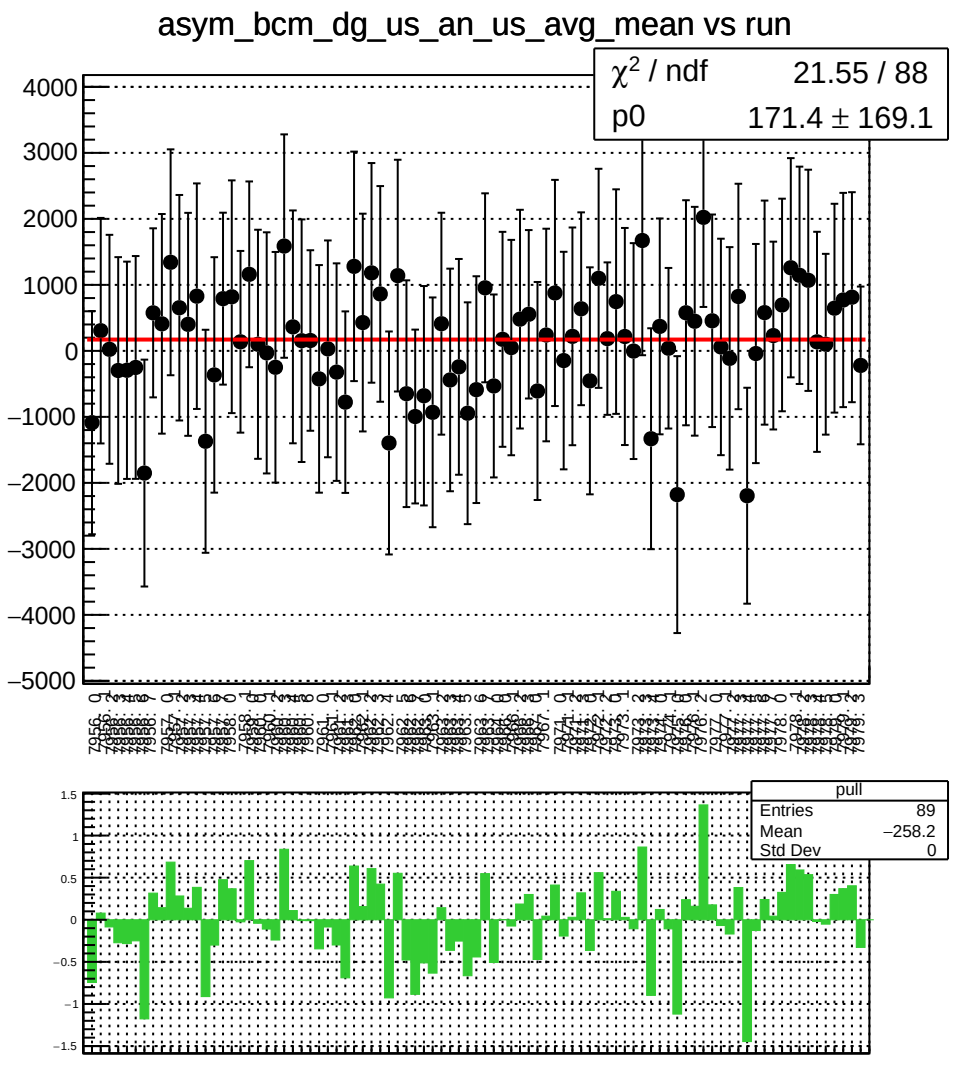

pull1D
Entries 89
Mean −0.00873
Std Dev 0.522

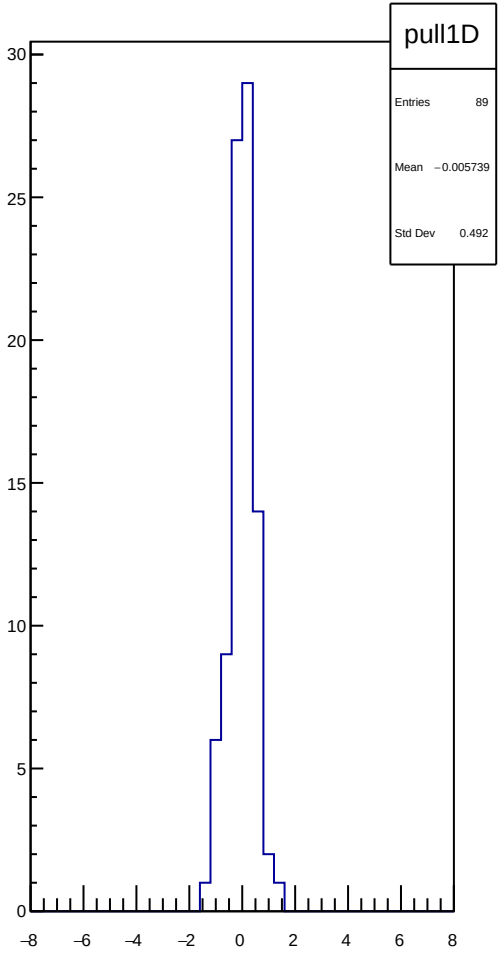

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1607 / 88
p0 162.9 ± 0.1218
180
175
170
165
160
155
150

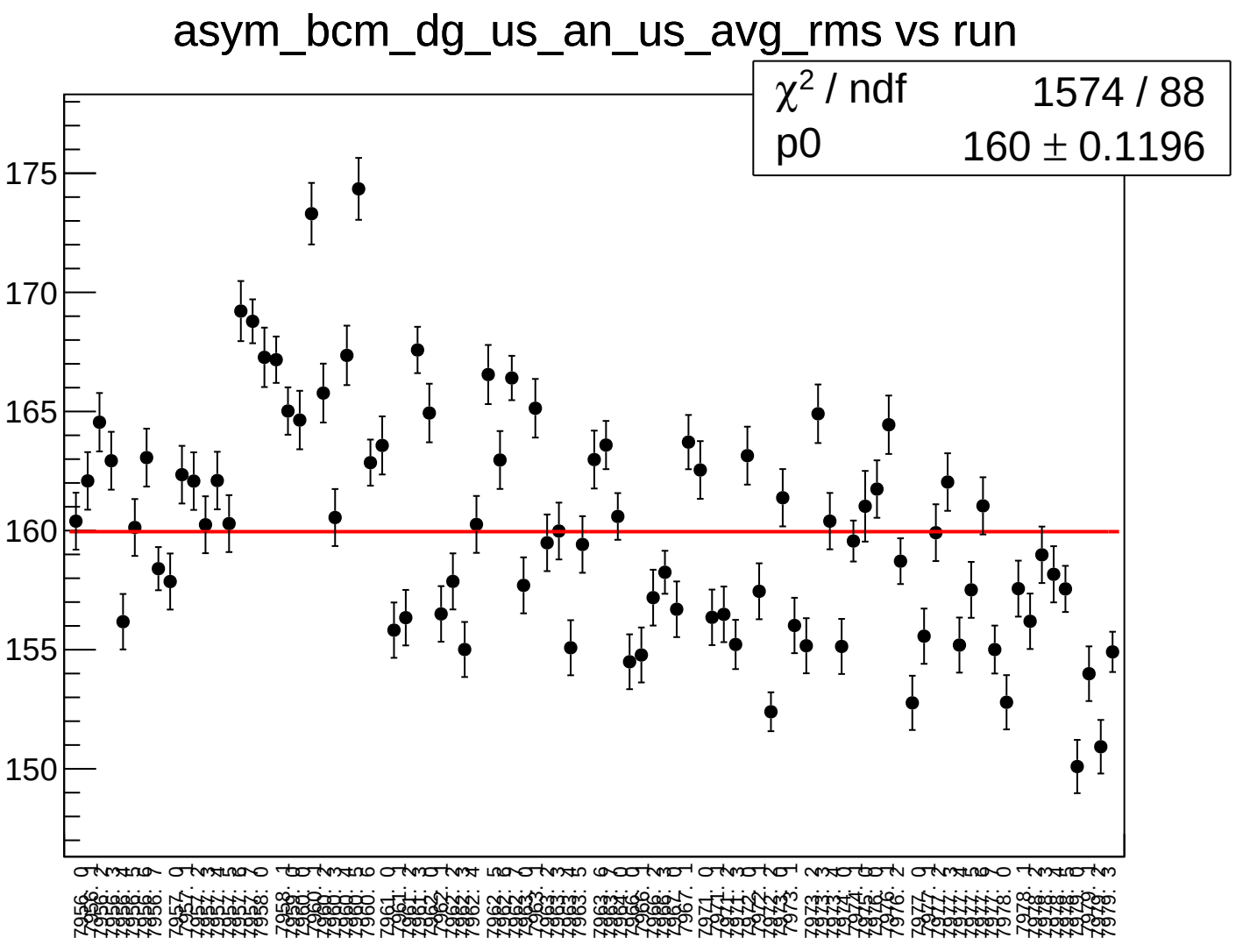

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 64.39 / 88
p0 −0.2482 ± 31.14
1000
500
0
−500
−1000
pull
Entries 89
Mean −275.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

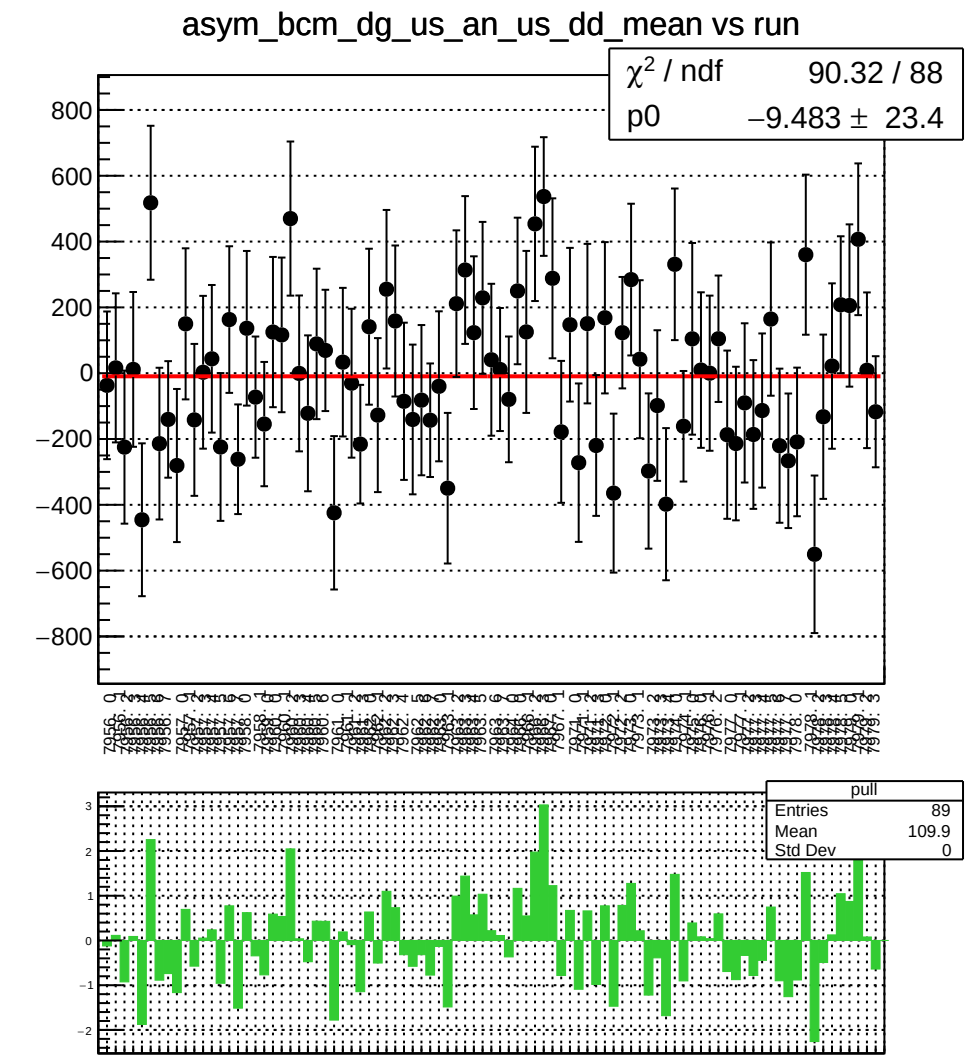

pull1D
Entries 89
Mean 0.004366
Std Dev 0.8506
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

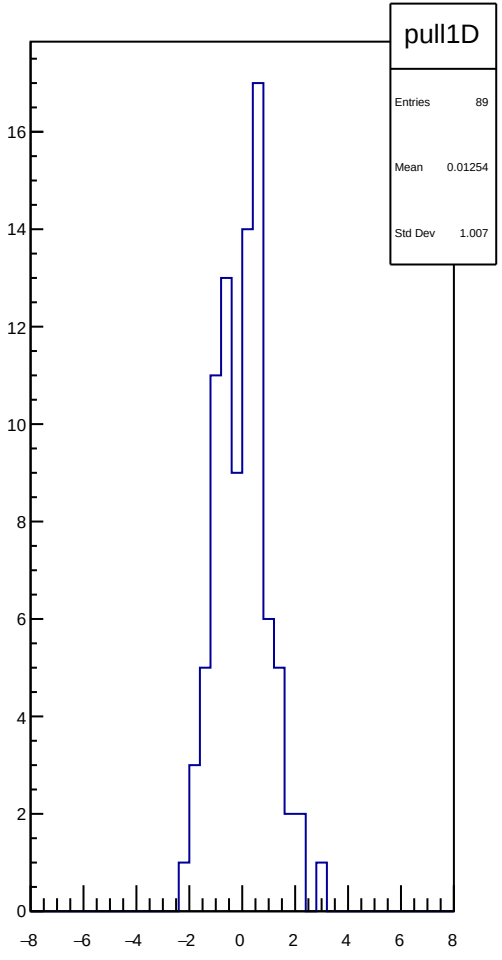

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2632 / 88
p0 29.44 ± 0.02202
32
31
30
29
28
27

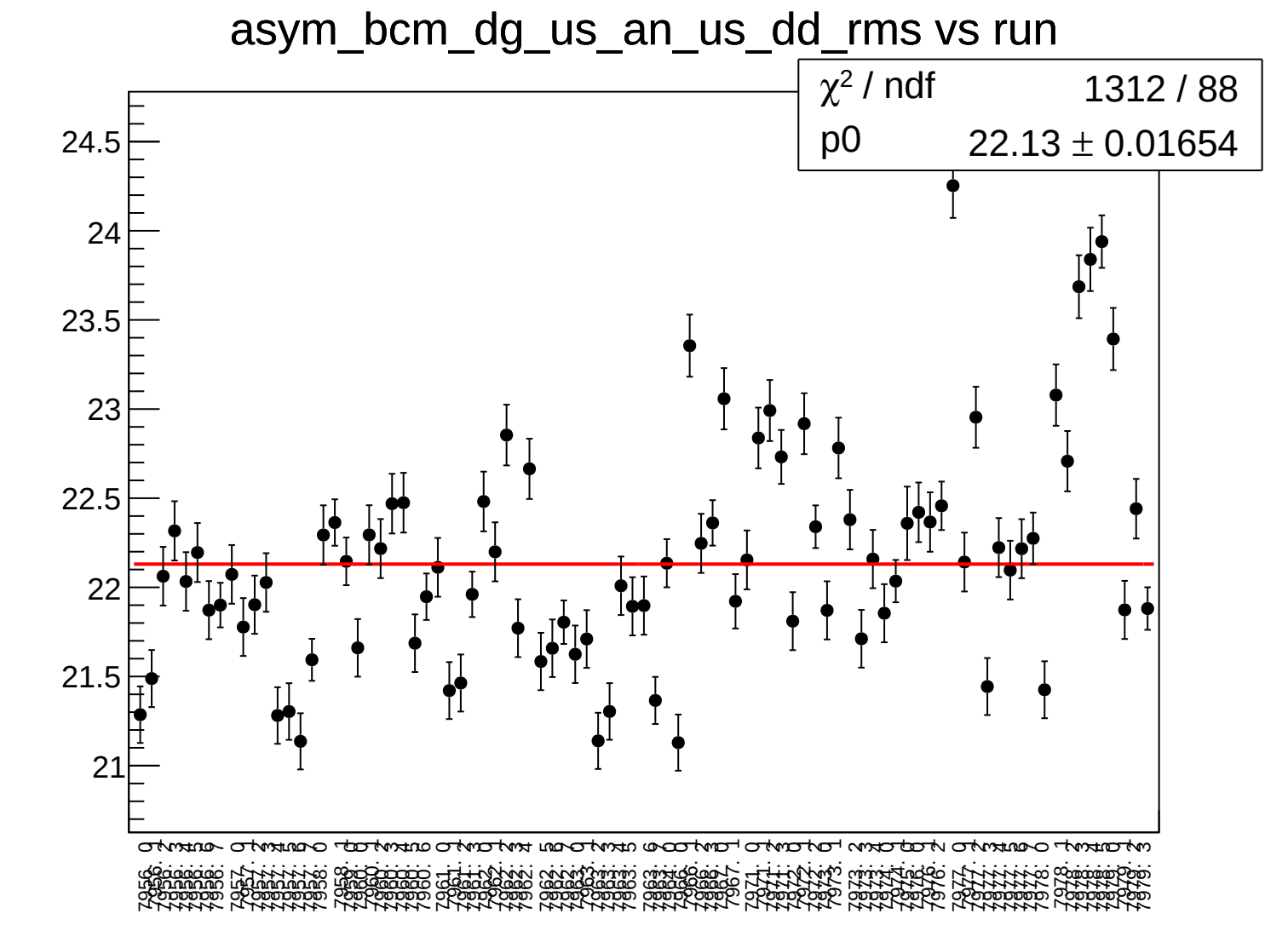

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 21.55 / 88
p0 171.4 ± 169.1
pull
Entries 89
Mean −258.2
Std Dev 0

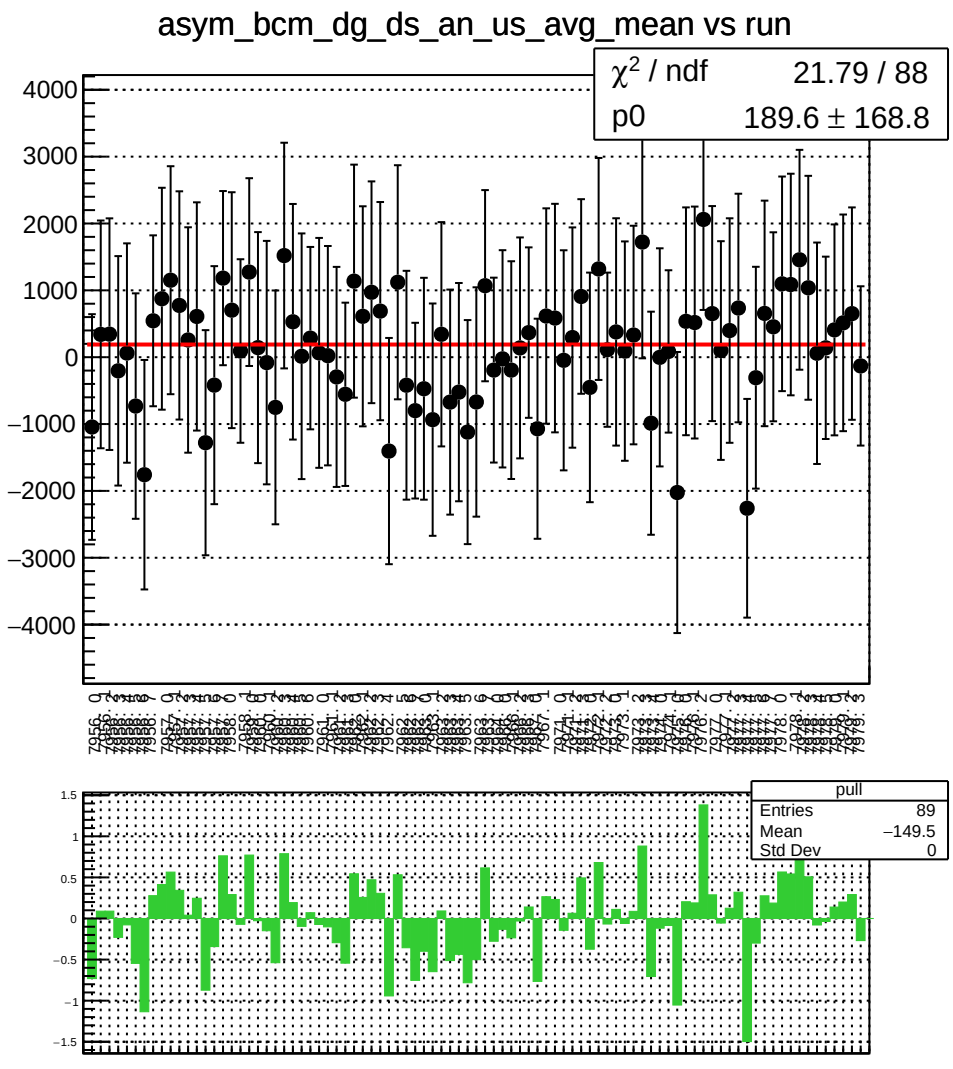

pull1D
Entries 89
Mean −0.005739
Std Dev 0.492

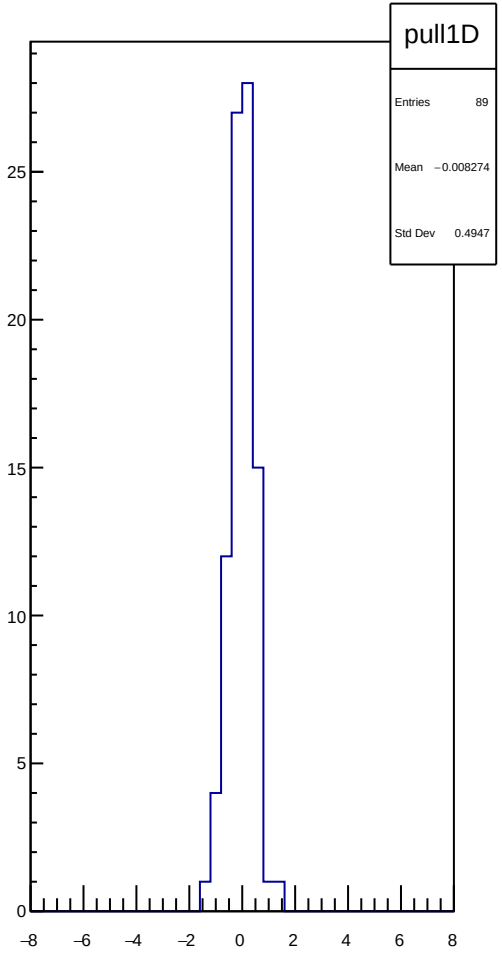

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1574 / 88
p0 160 ± 0.1196
175
170
165
160
155
150

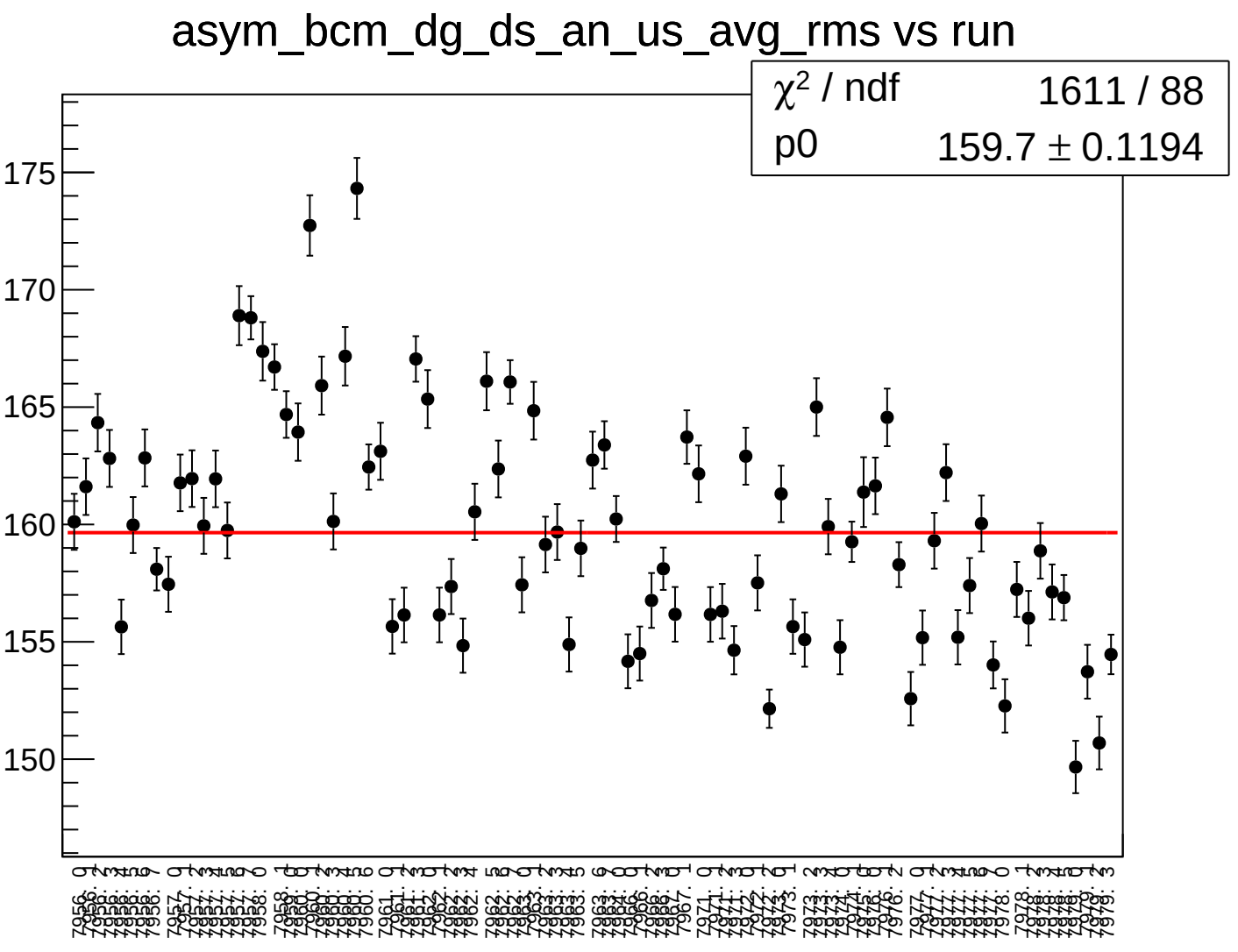

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 90.32 / 88
p0 −9.483 ± 23.4
pull
Entries 89
Mean 109.9
Std Dev 0

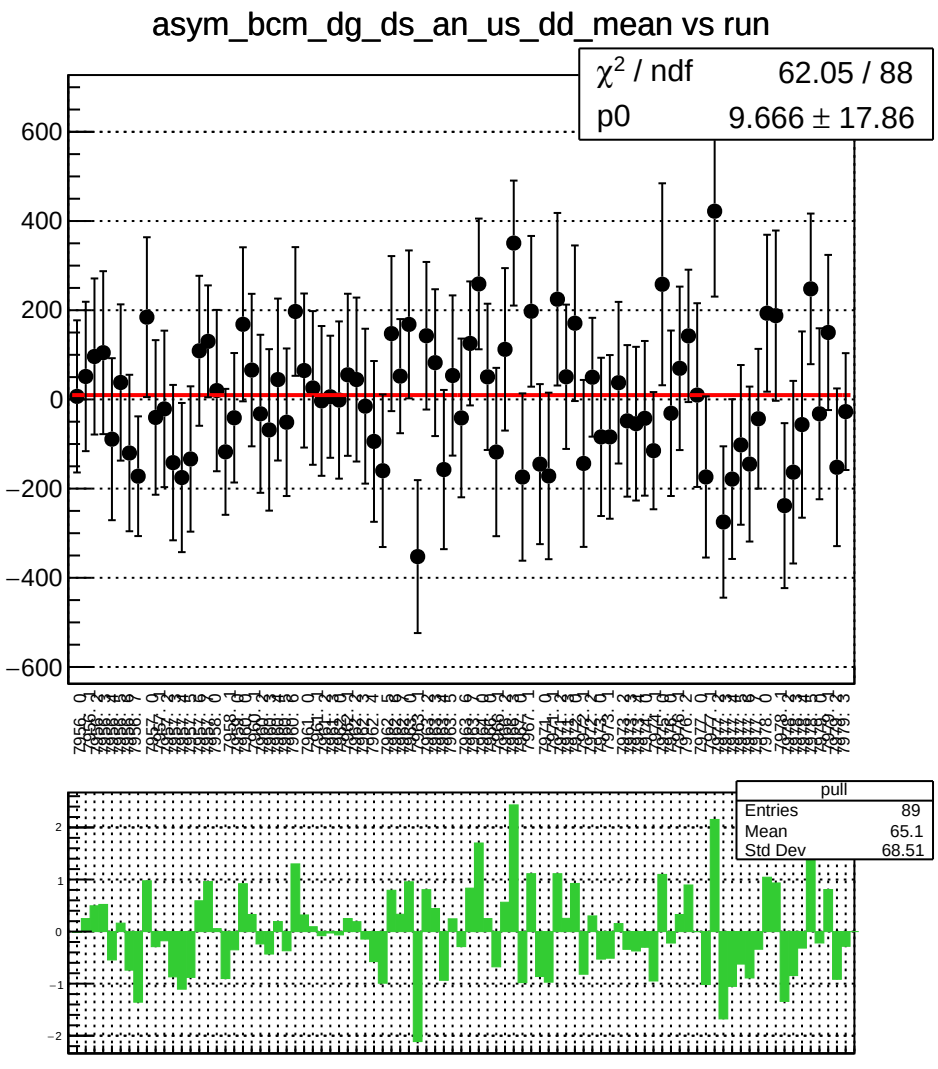

pull1D
Entries 89
Mean 0.01254
Std Dev 1.007

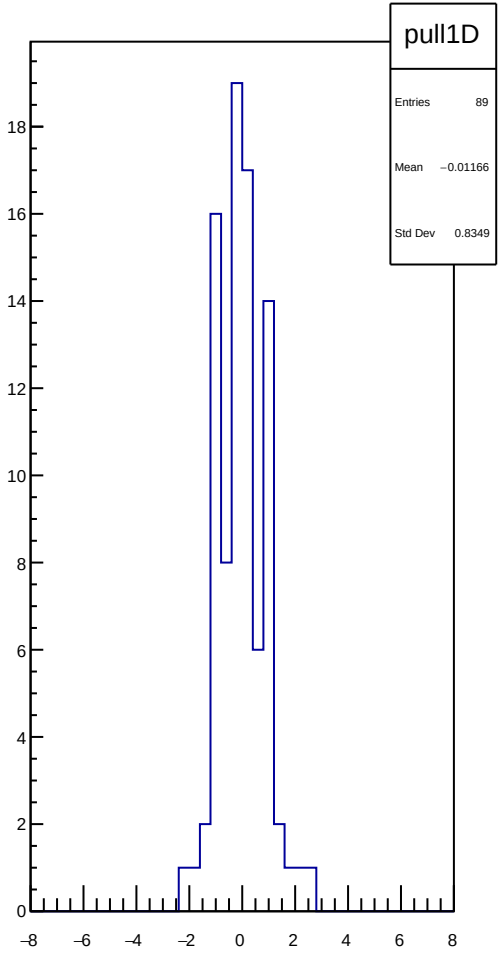

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1312 / 88
p0 22.13 ± 0.01654
24.5
24
23.5
23
22.5
22
21.5
21

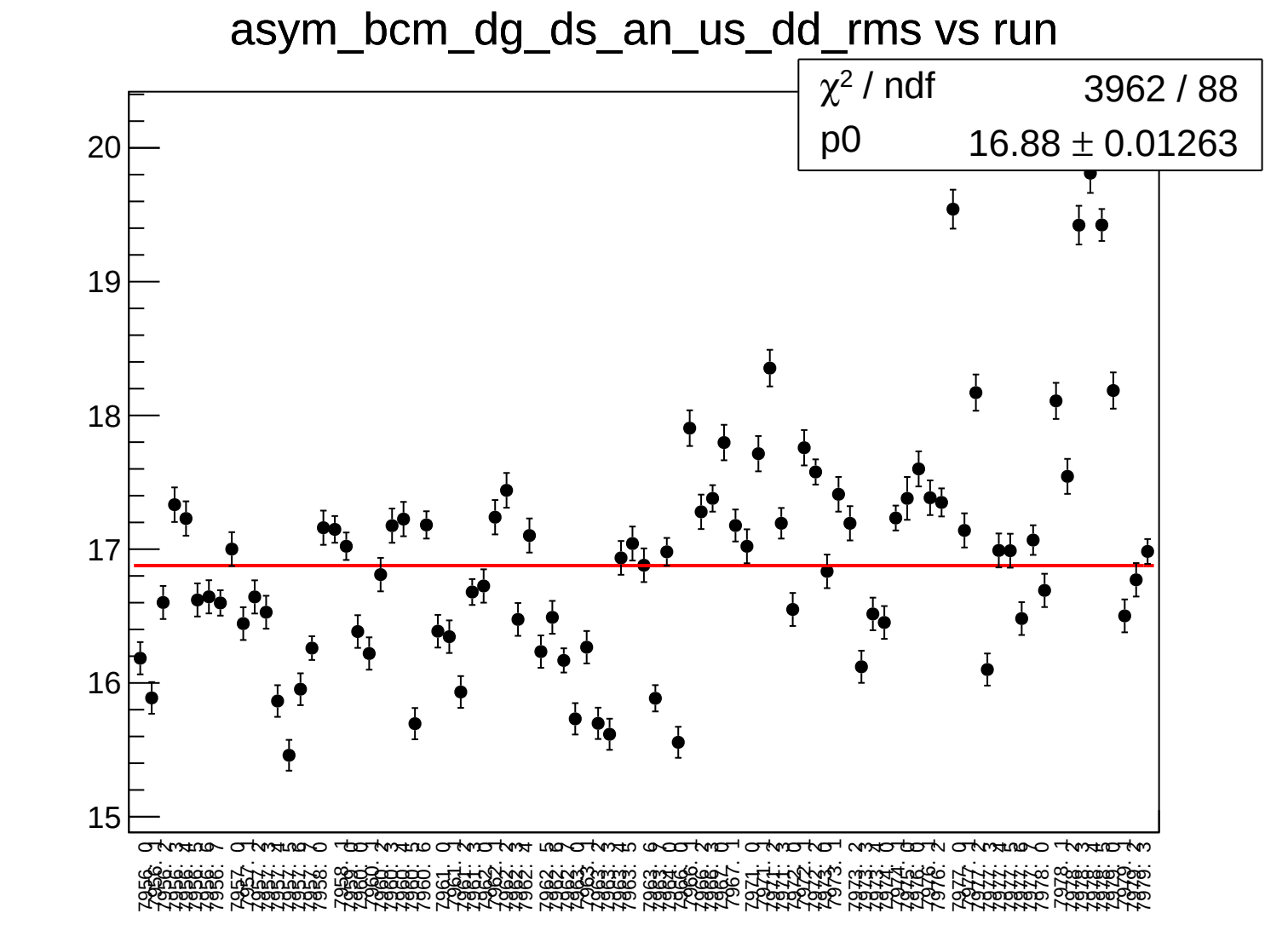

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 21.79 / 88
p0 189.6 ± 168.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean −149.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

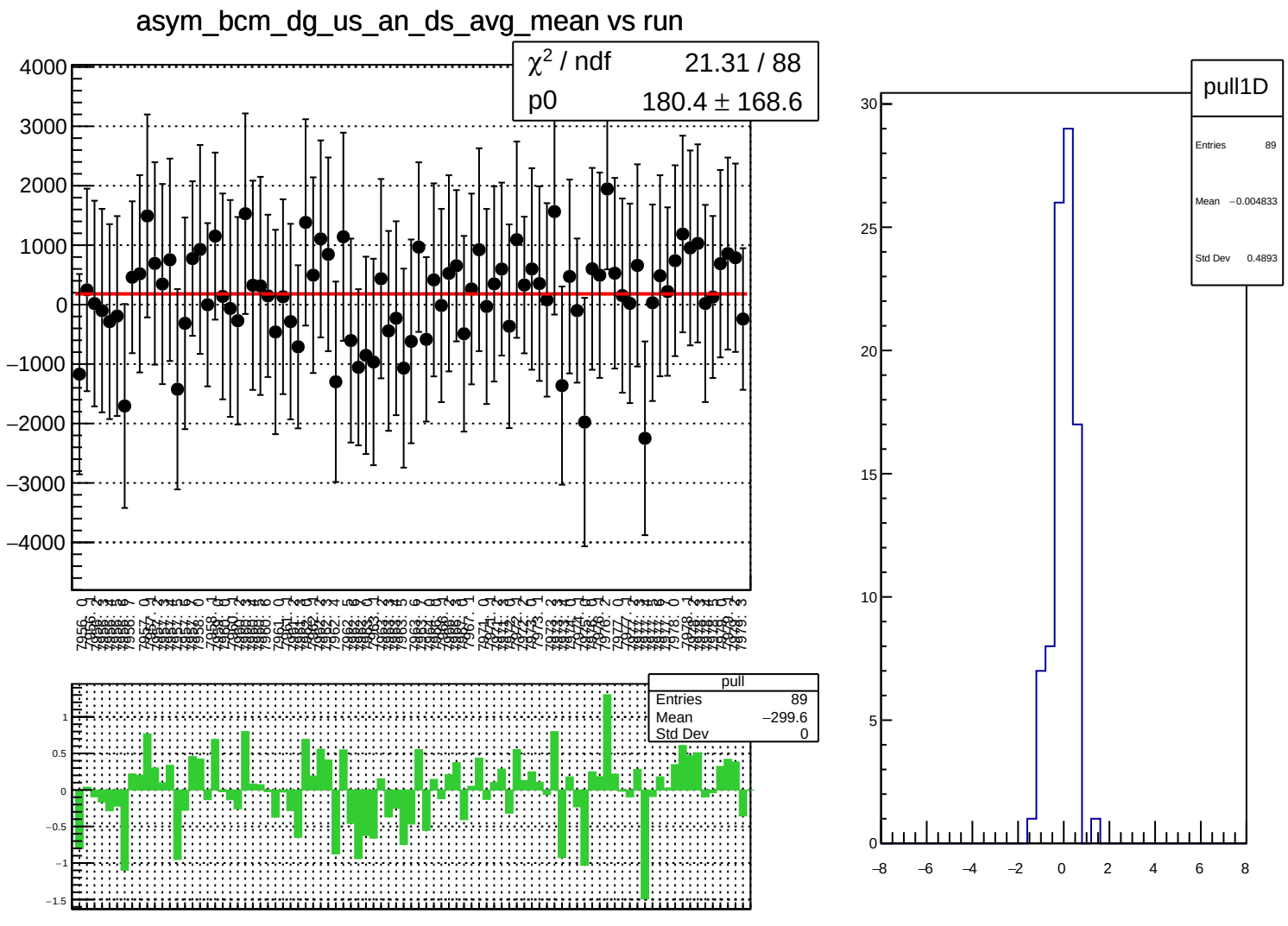

pull1D
Entries 89
Mean −0.008274
Std Dev 0.4947
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

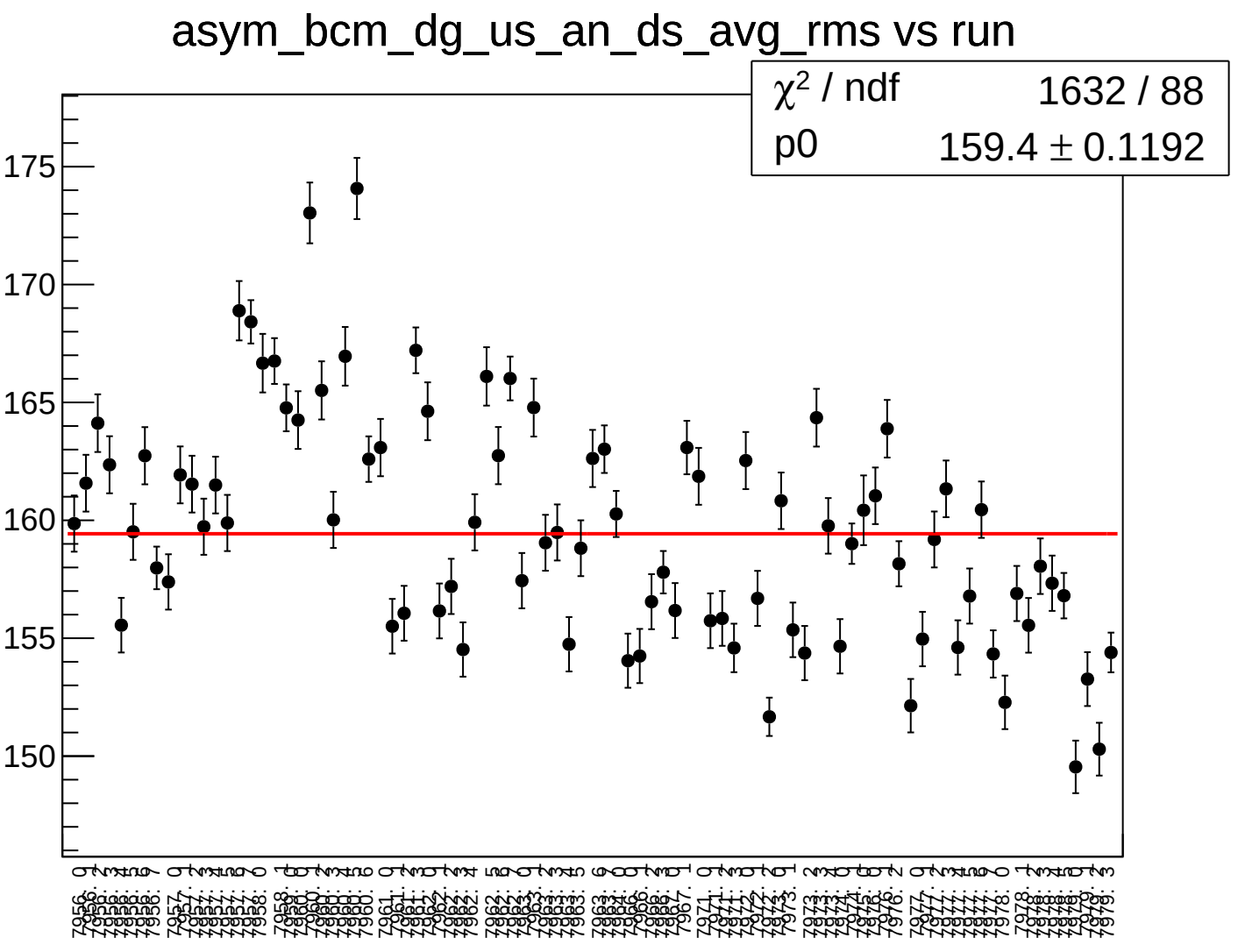

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1611 / 88
p0 159.7 ± 0.1194
175
170
165
160
155
150

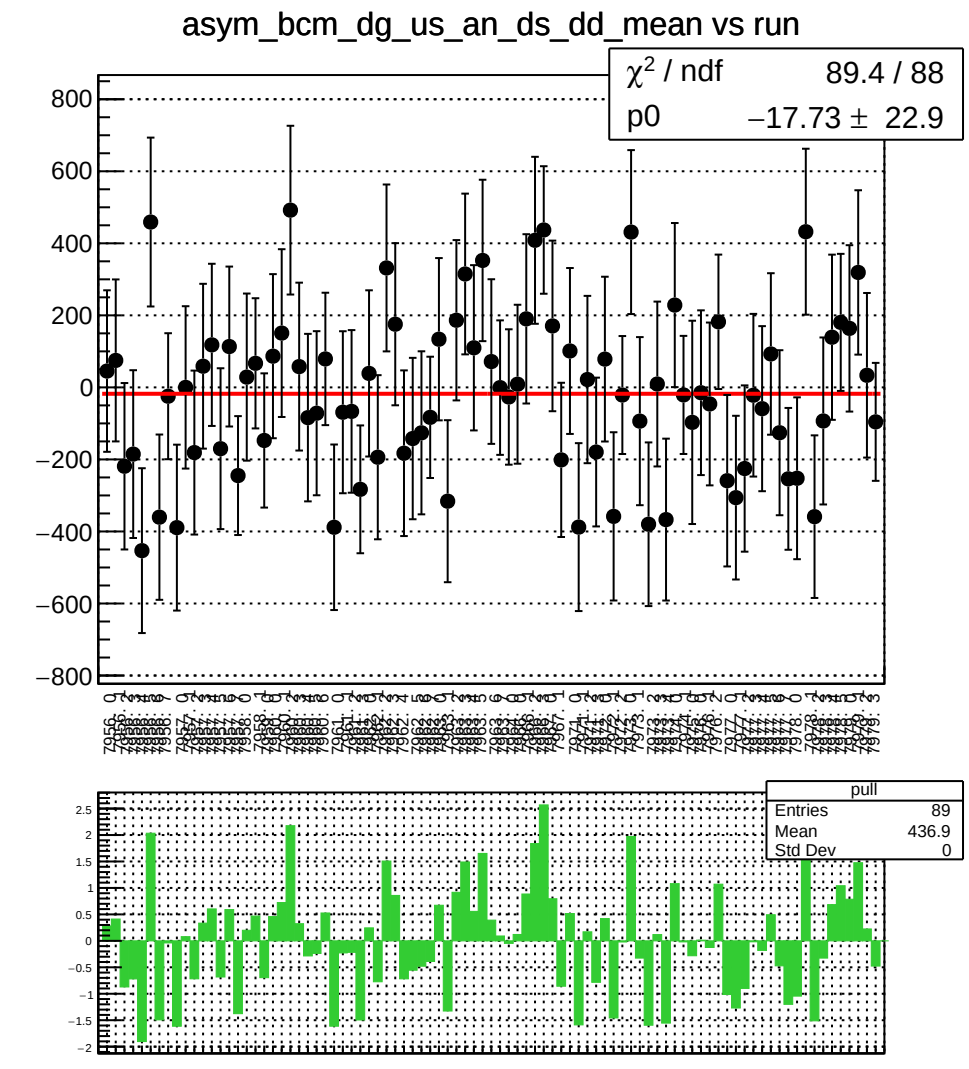

asym_bcm_dg_ds_an_us_dd_mean vs run
$\chi^2$ / ndf 62.05 / 88
p0 9.666 ± 17.86
pull
Entries 89
Mean 65.1
Std Dev 68.51

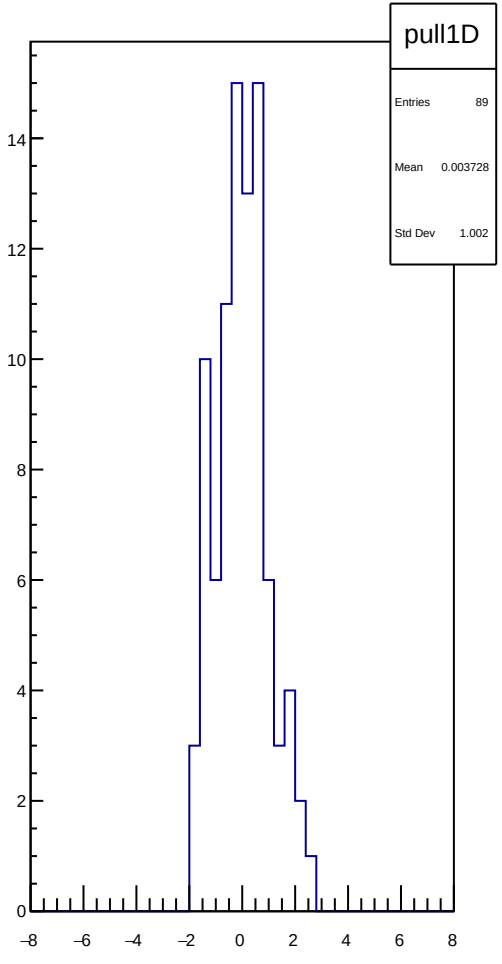

pull1D
Entries 89
Mean −0.01166
Std Dev 0.8349

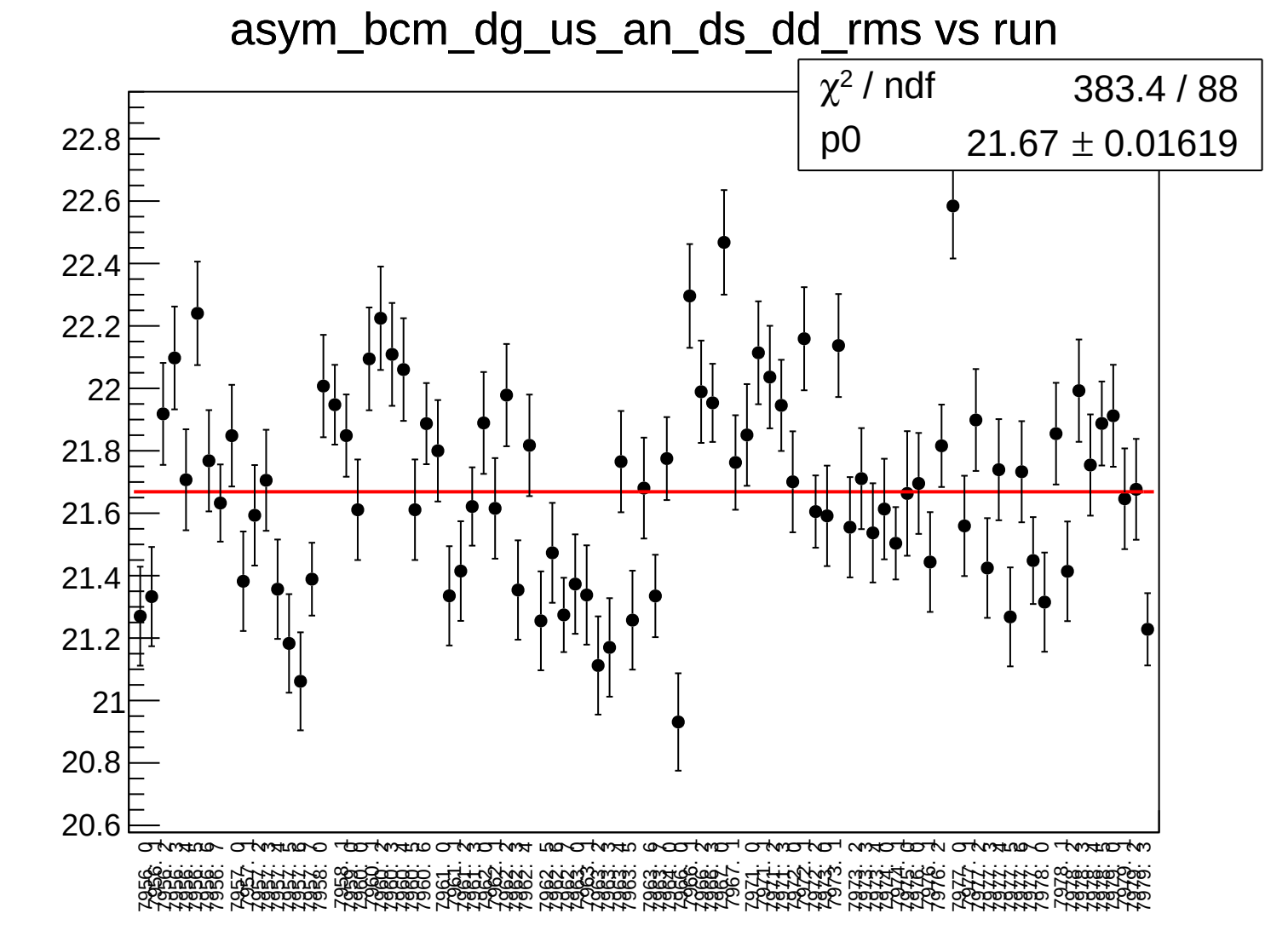

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3962 / 88
p0 16.88 ± 0.01263
20
19
18
17
16
15

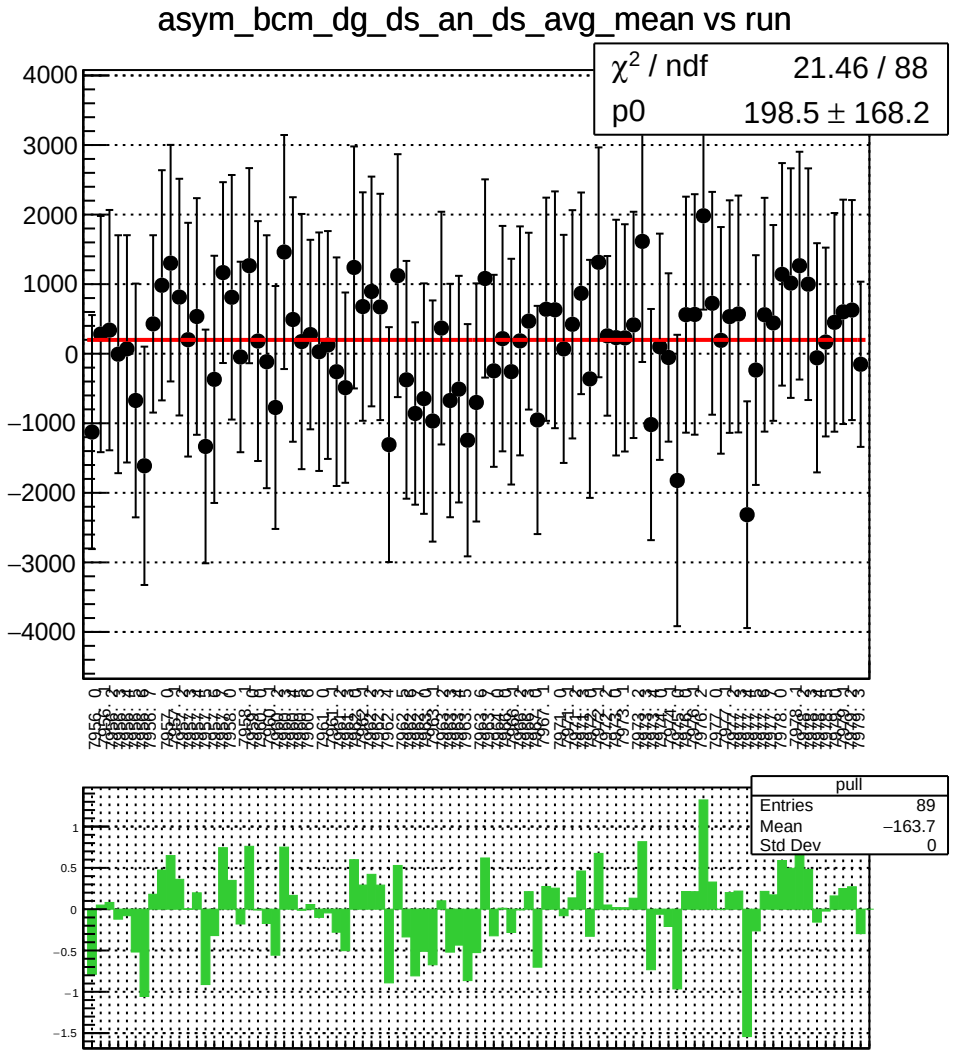

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 21.31 / 88
p0 180.4 ± 168.6
pull
Entries 89
Mean −299.6
Std Dev 0
pull1D
Entries 89
Mean −0.004833
Std Dev 0.4893

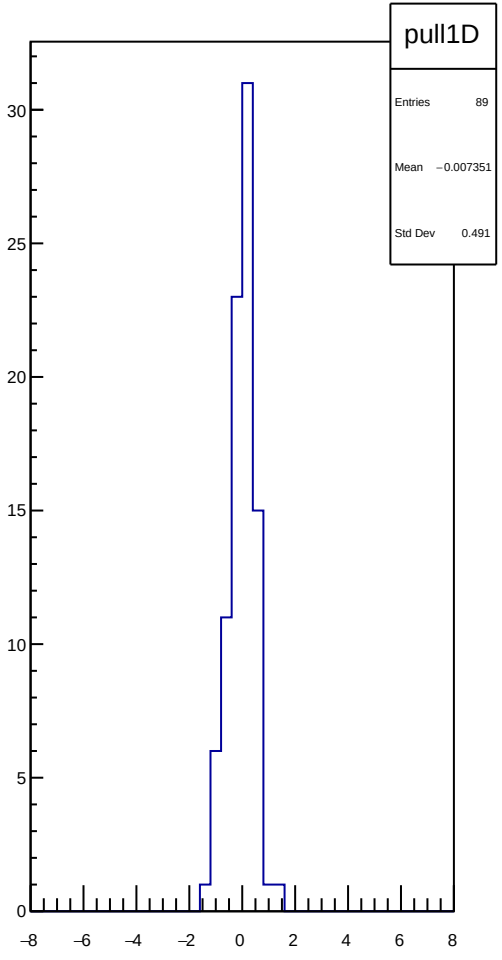

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1632 / 88
p0 159.4 ± 0.1192
175
170
165
160
155
150

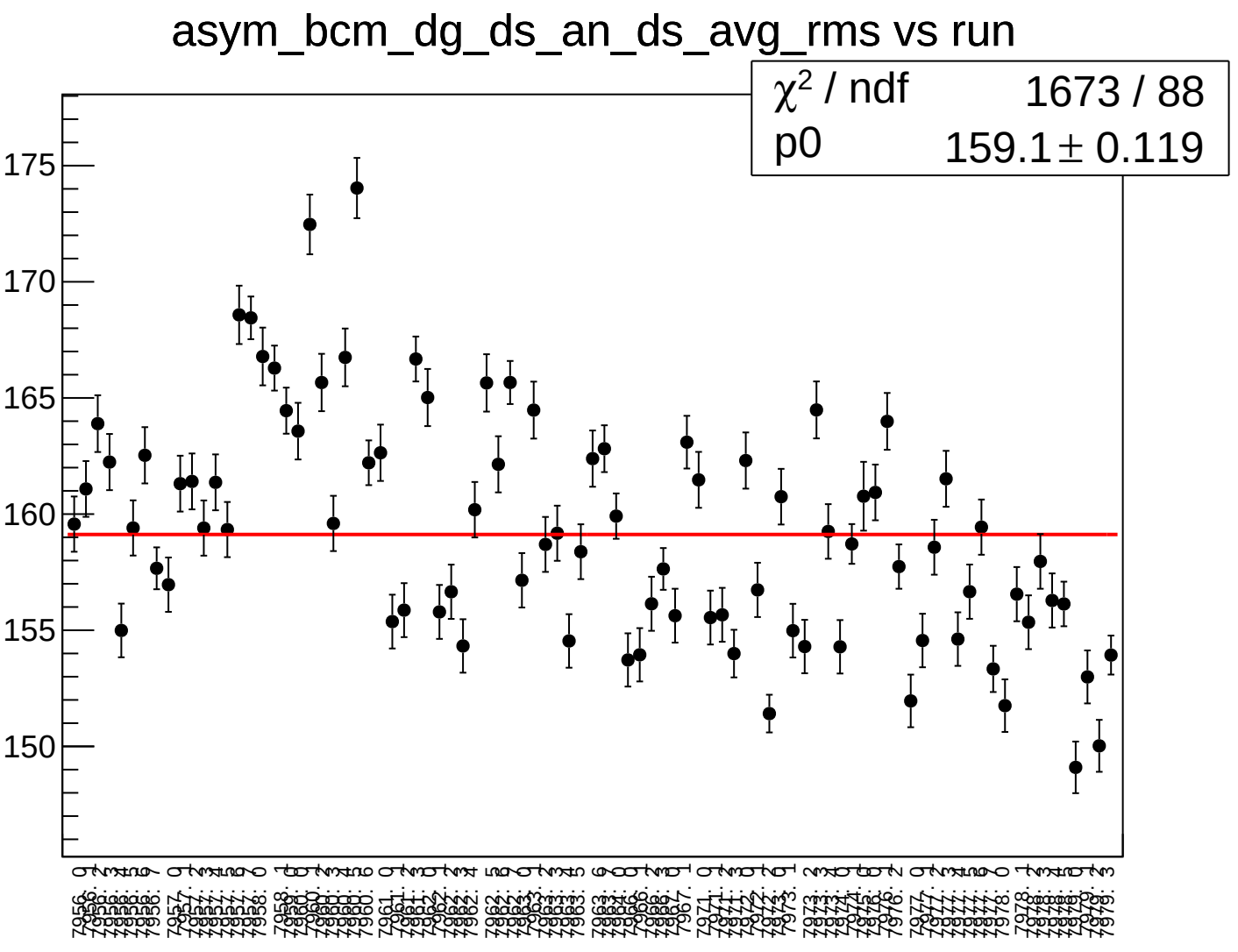

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 89.4 / 88
p0 −17.73 ± 22.9
pull
Entries 89
Mean 436.9
Std Dev 0

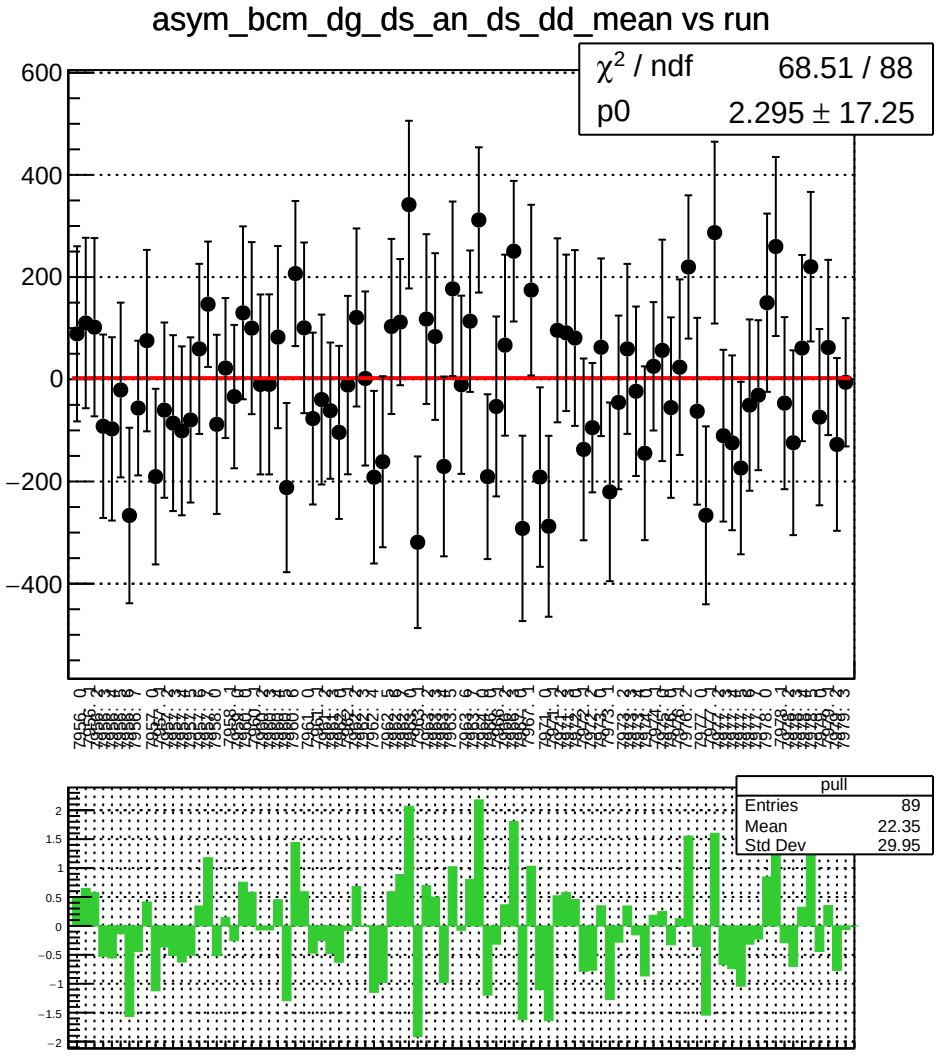

pull1D
Entries 89
Mean 0.003728
Std Dev 1.002

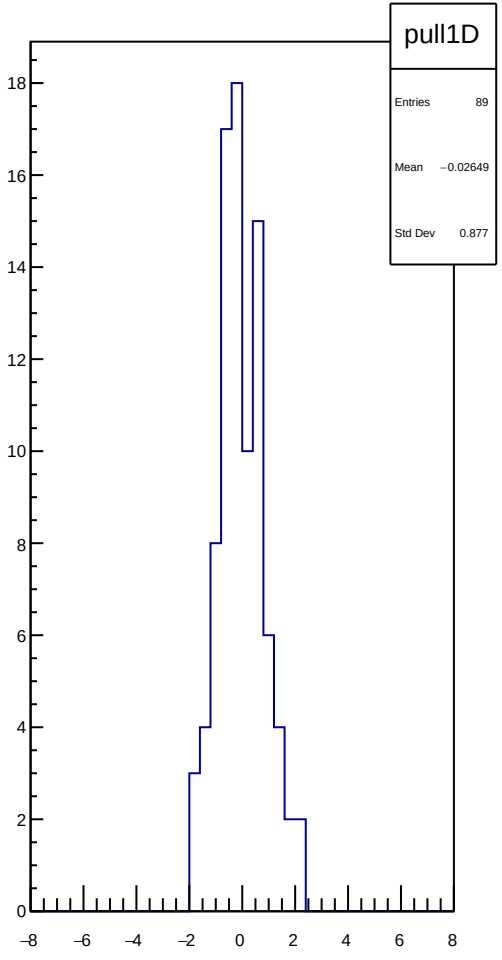

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 383.4 / 88
p0 21.67 ± 0.01619
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6

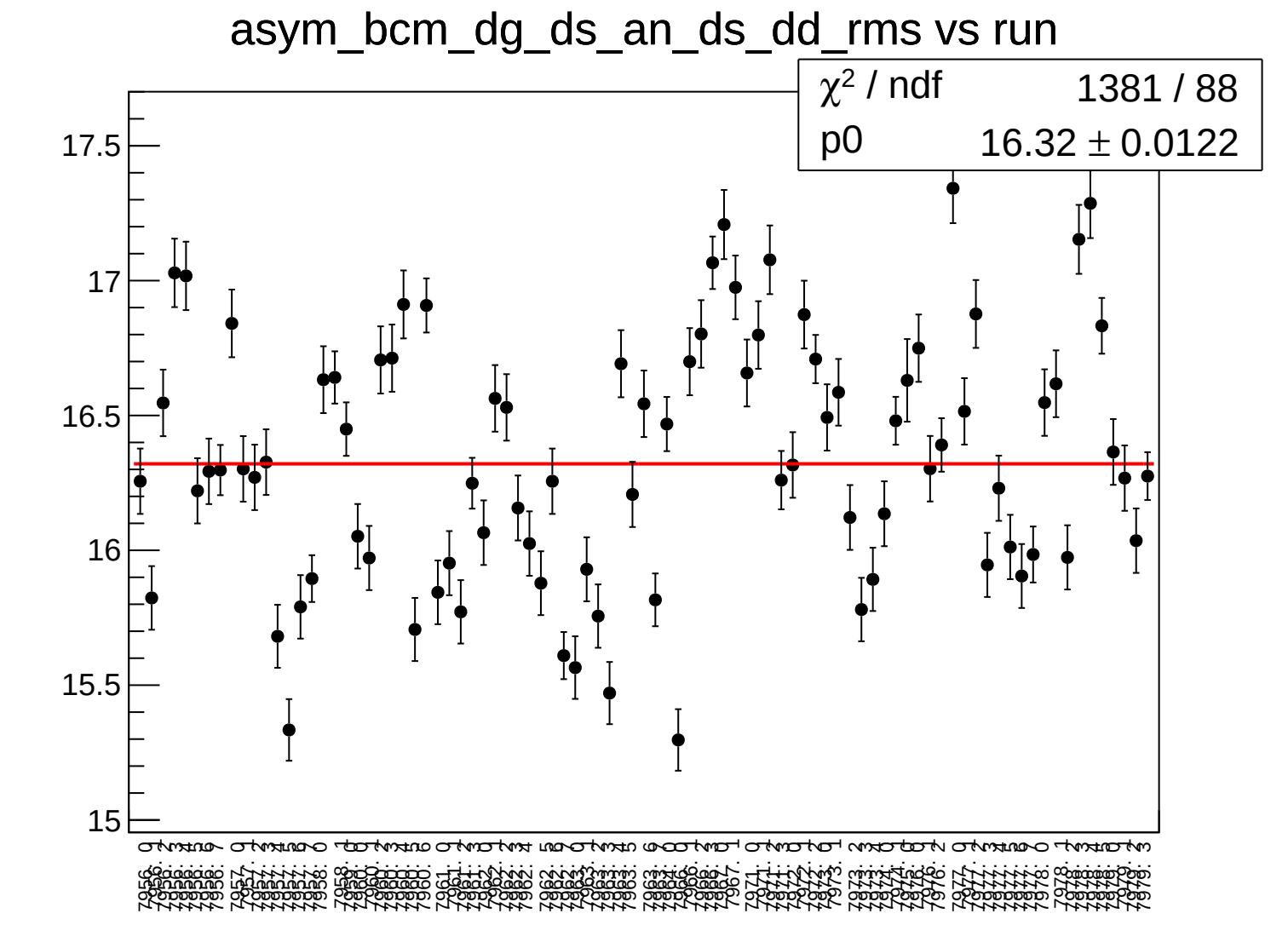

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 21.46 / 88
p0 198.5 ± 168.2
pull
Entries 89
Mean −163.7
Std Dev 0

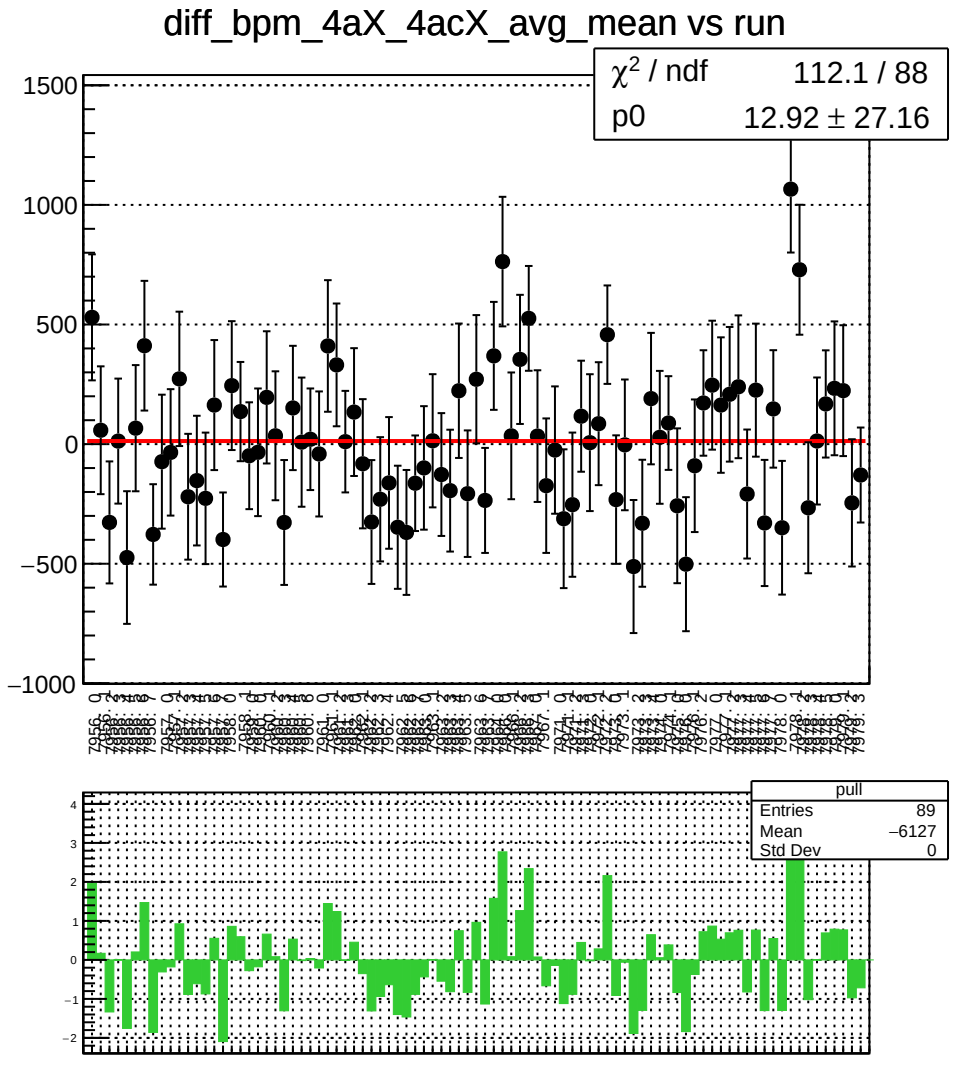

pull1D
Entries 89
Mean −0.007351
Std Dev 0.491

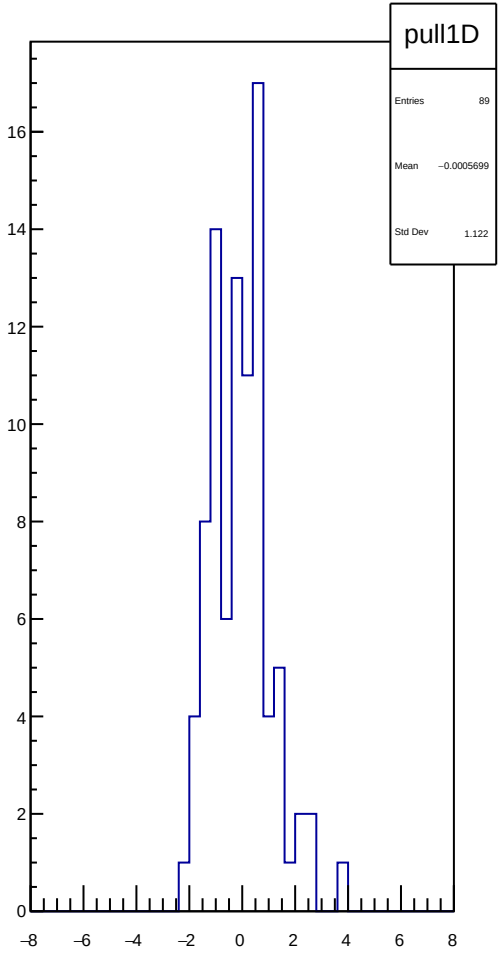

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1673 / 88
p0 159.1 ± 0.119
175
170
165
160
155
150

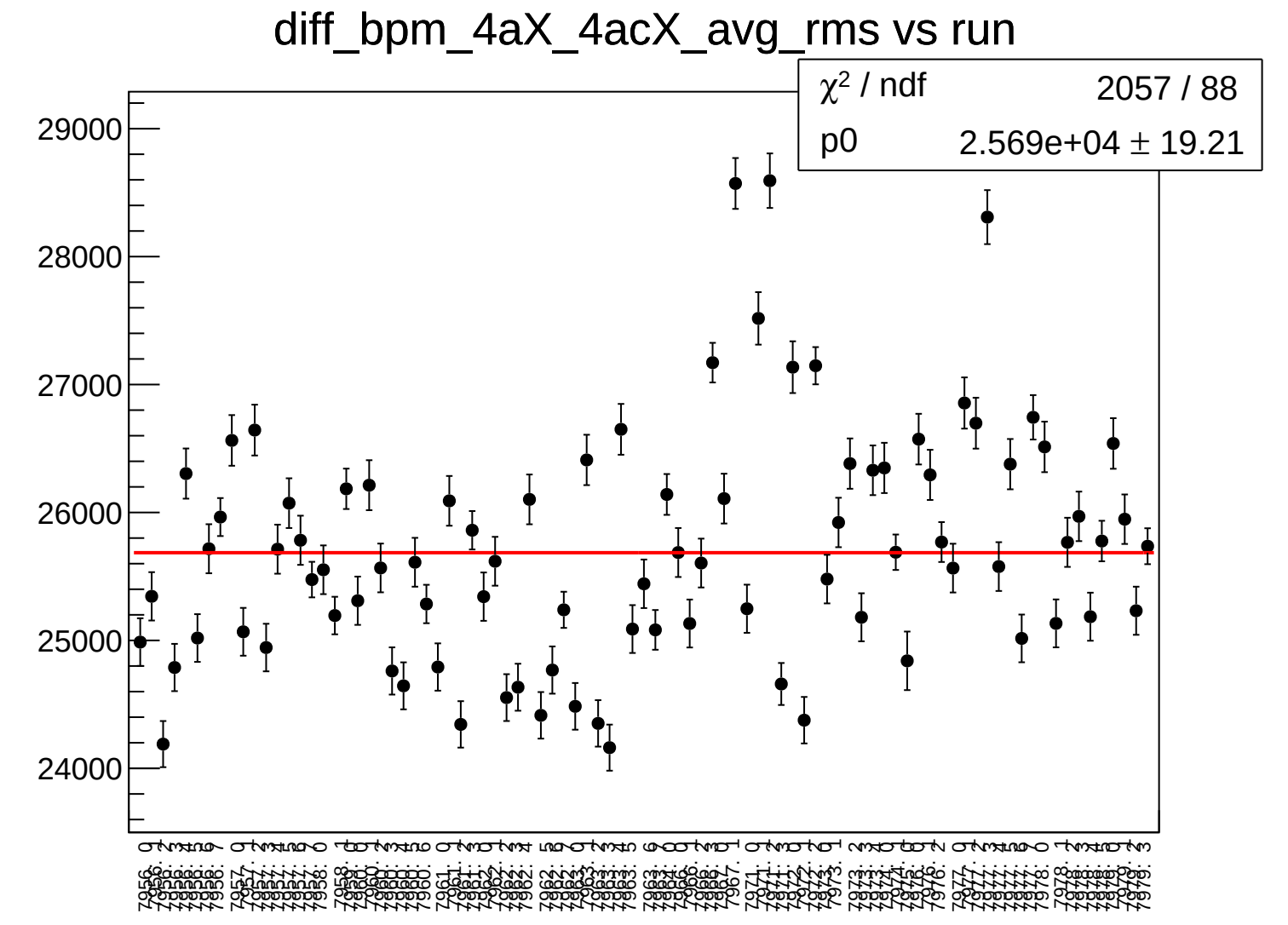

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 68.51 / 88
p0 2.295 ± 17.25
pull
Entries 89
Mean 22.35
Std Dev 29.95

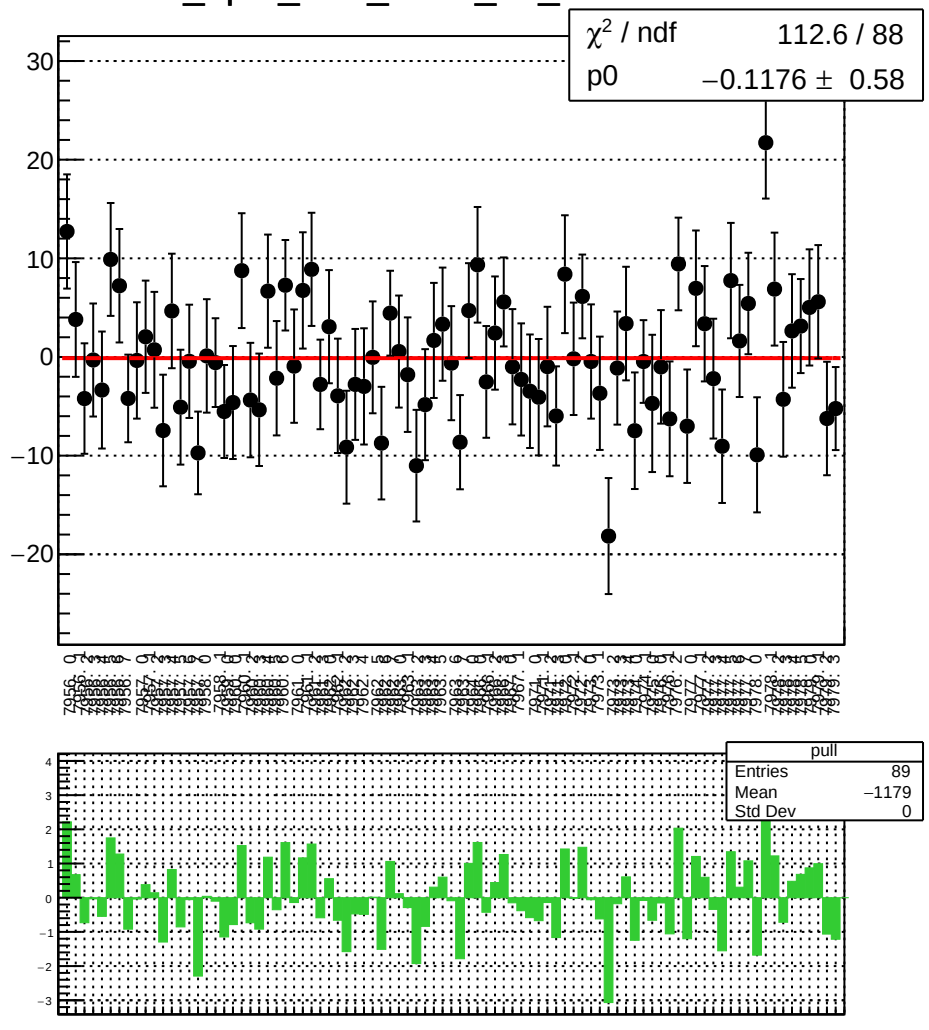

pull1D
Entries 89
Mean −0.02649
Std Dev 0.877

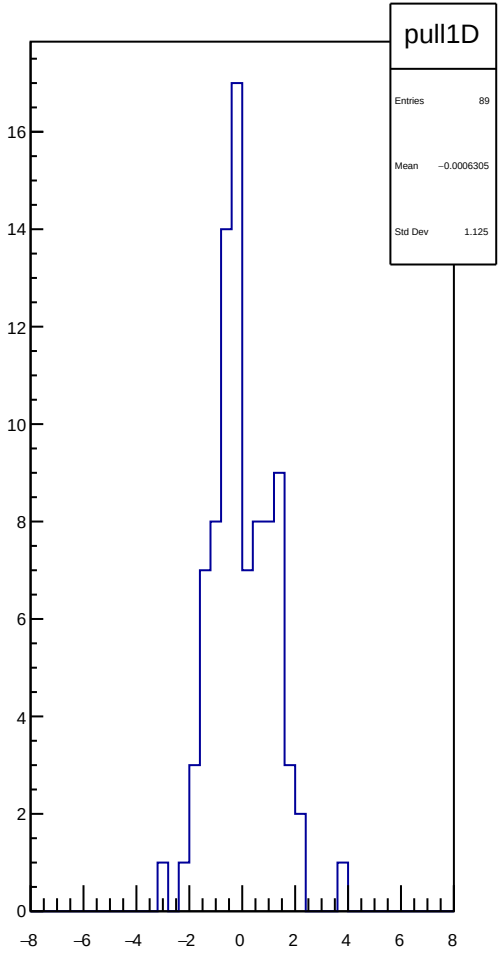

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1381 / 88
p0 16.32 ± 0.0122
17.5
17
16.5
16
15.5
15

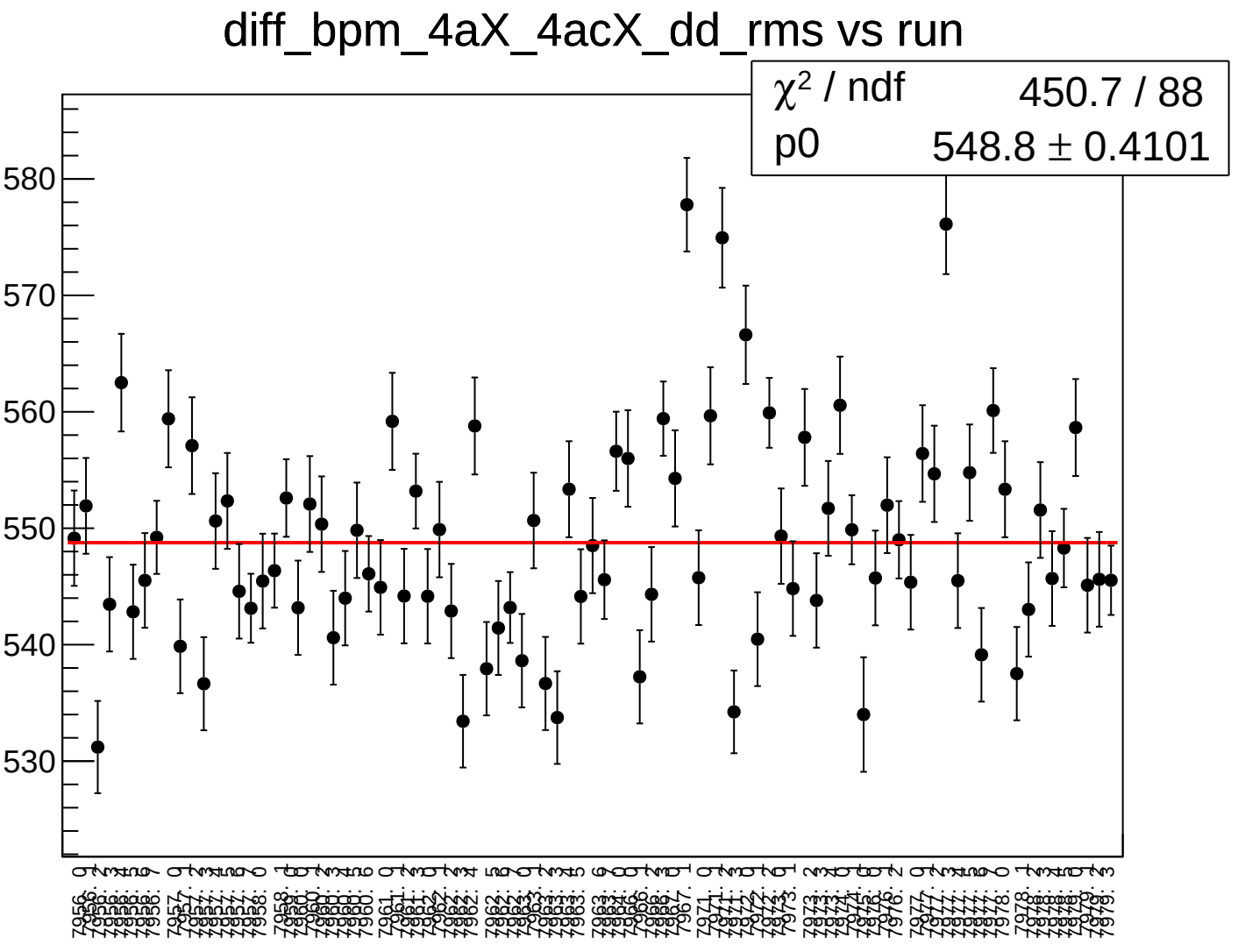

diff_bpm_4aX_4acX_avg_mean vs run
$\chi^2$ / ndf 112.1 / 88
p0 12.92 ± 27.16
pull
Entries 89
Mean −6127
Std Dev 0

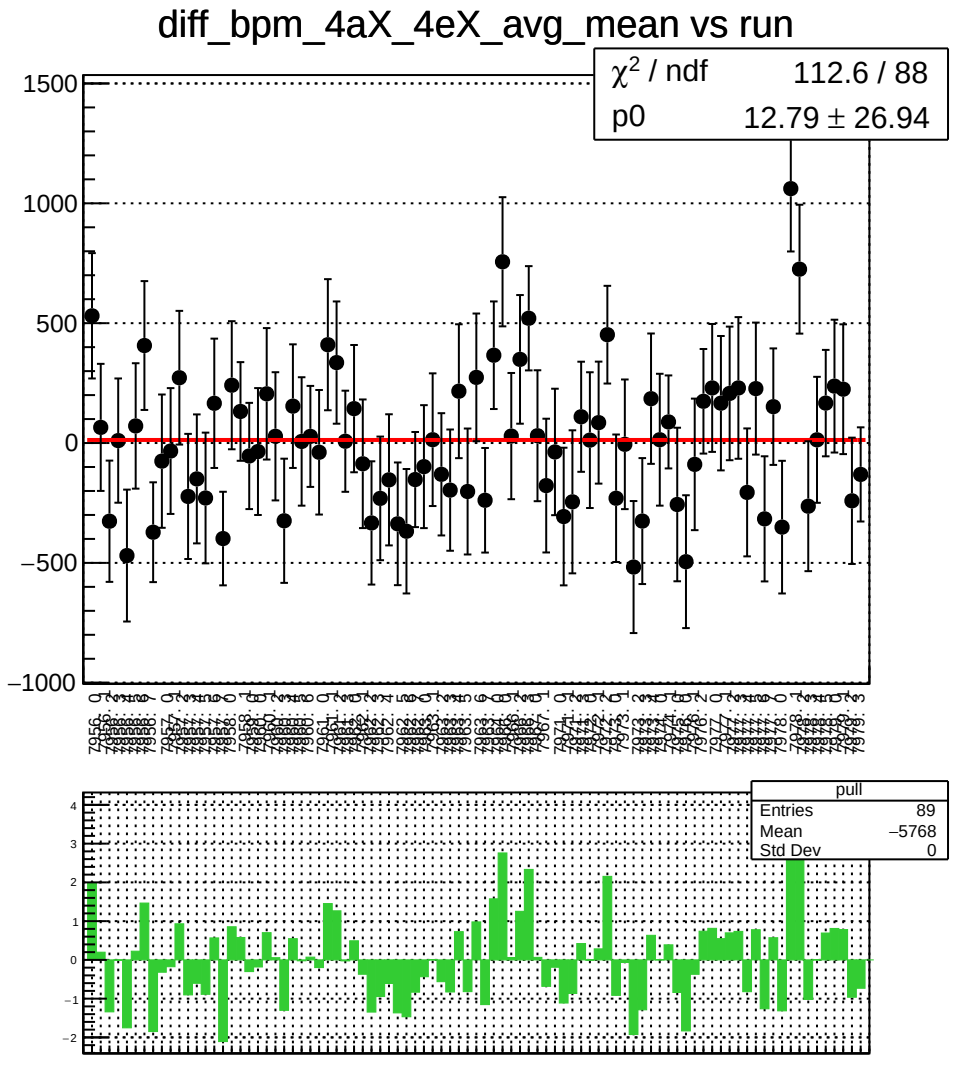

pull1D
Entries 89
Mean −0.0005699
Std Dev 1.122

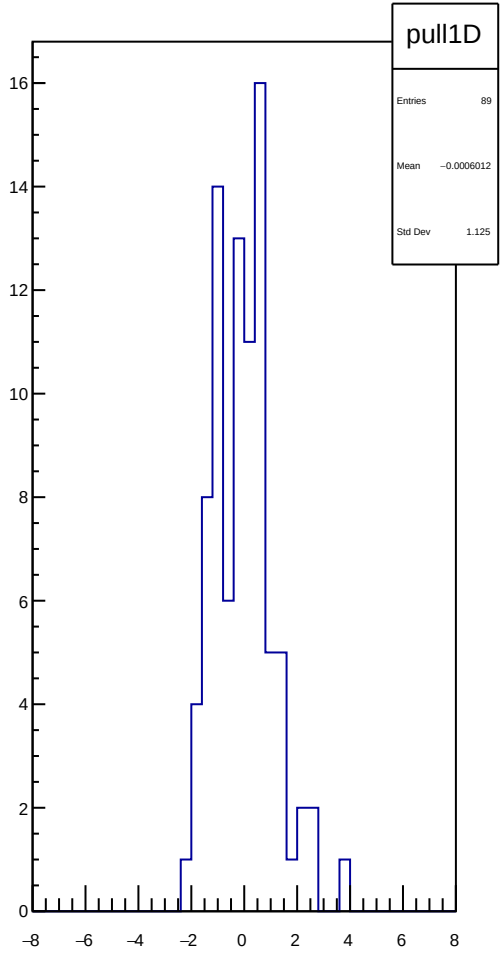

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2057 / 88
p0 2.569e+04 ± 19.21
29000
28000
27000
26000
25000
24000

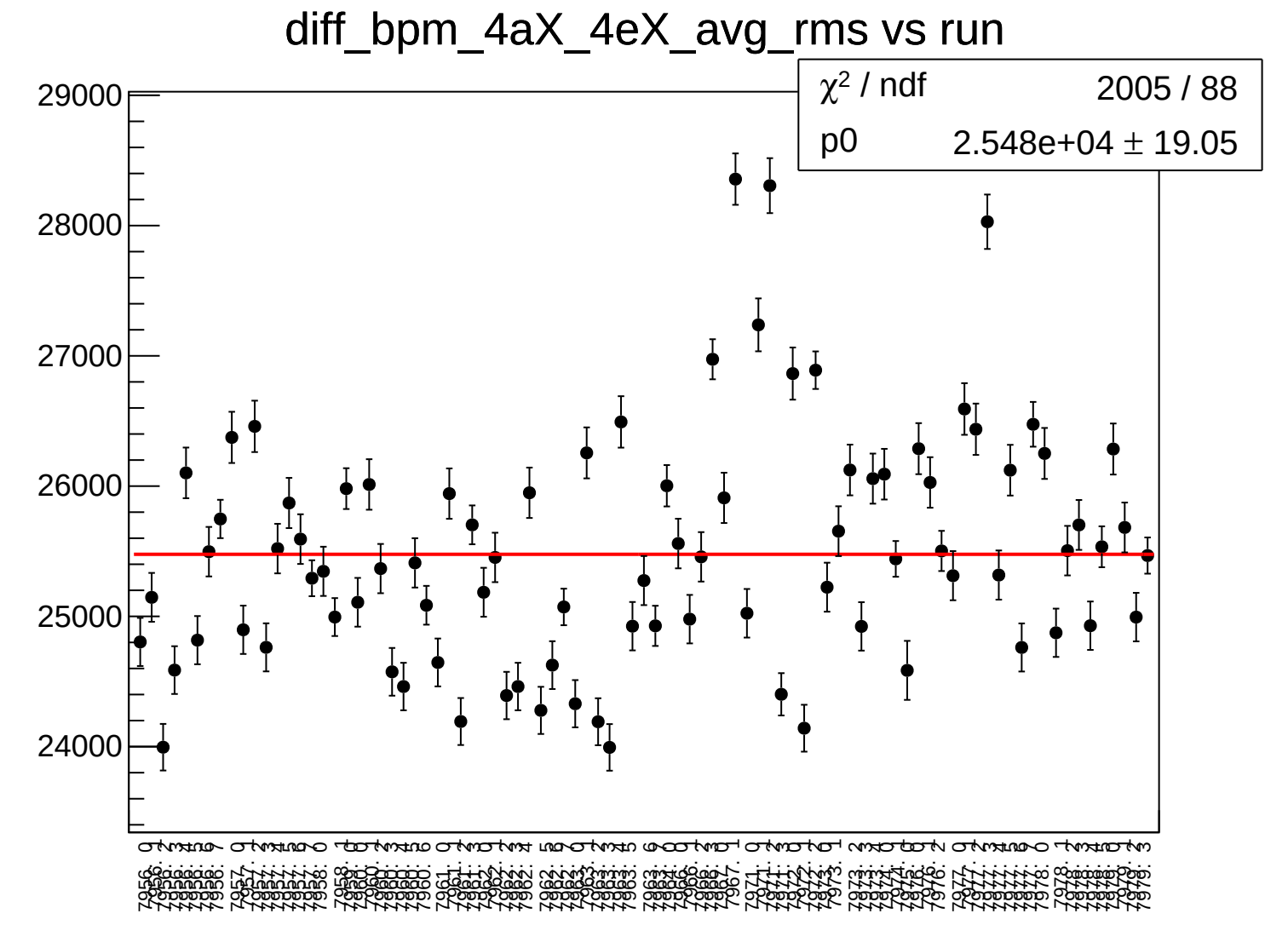

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 112.6 / 88
p0 −0.1176 ± 0.58
pull
Entries 89
Mean −1179
Std Dev 0

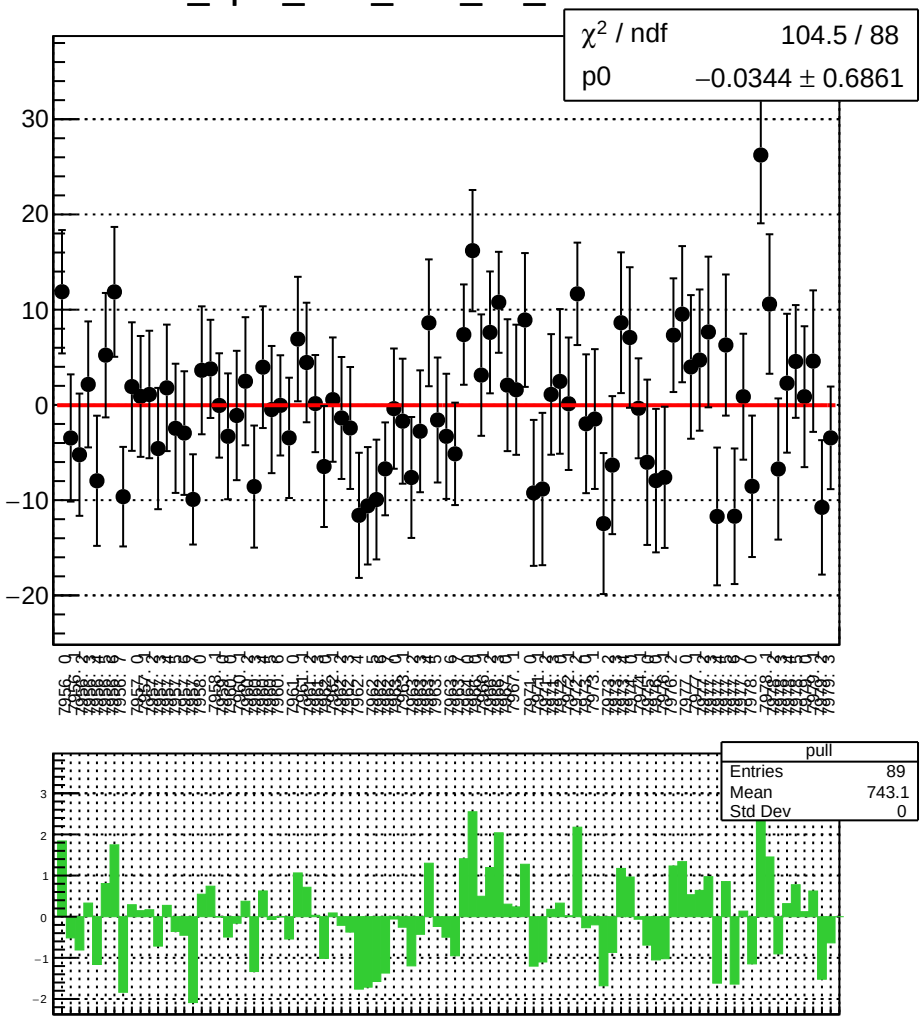

pull1D
Entries 89
Mean −0.0006305
Std Dev 1.125

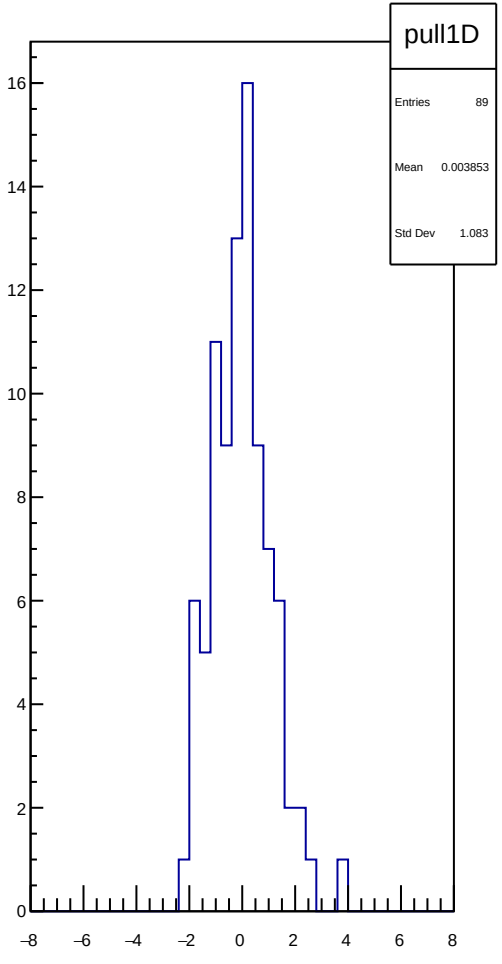

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 450.7 / 88
p0 548.8 ± 0.4101
580
570
560
550
540
530

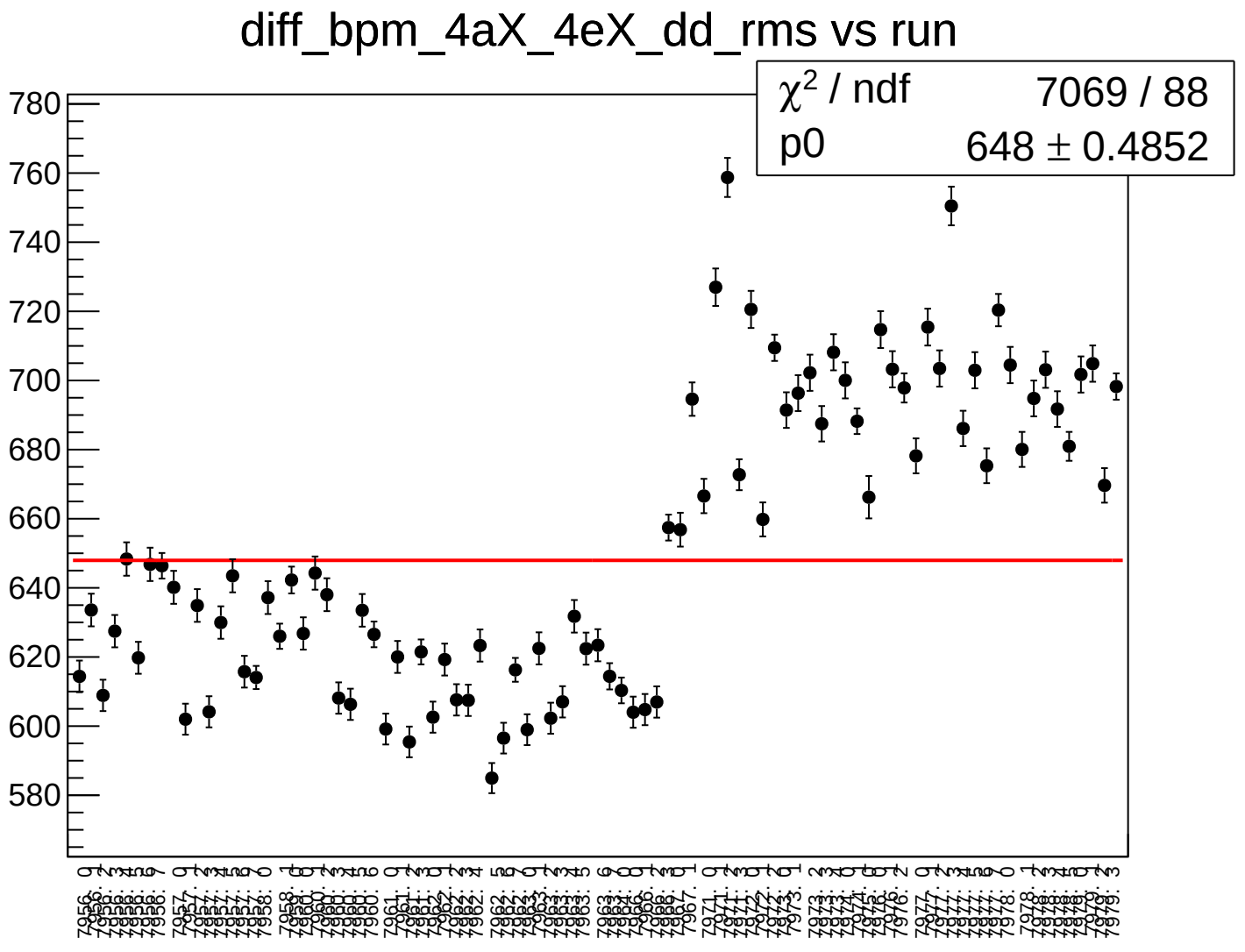

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 112.6 / 88
p0 12.79 ± 26.94
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean −5768
Std Dev 0
4
3
2
1
0
−1
−2

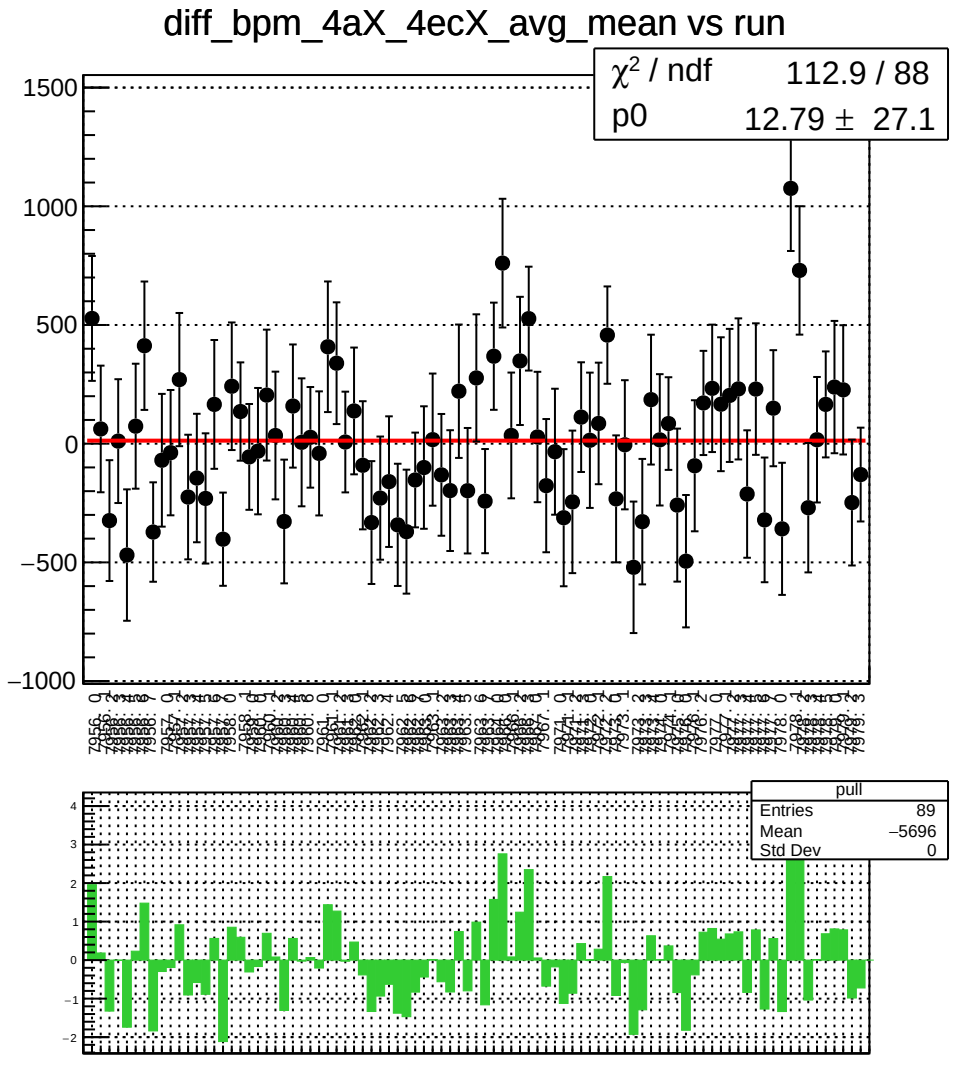

pull1D
Entries 89
Mean −0.0006012
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

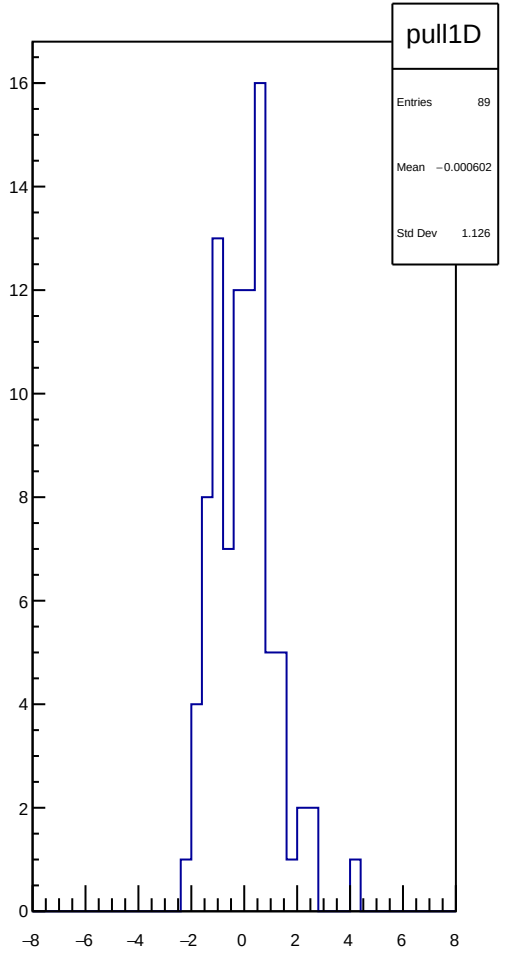

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 2005 / 88
p0 2.548e+04 ± 19.05
29000
28000
27000
26000
25000
24000


diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 104.5 / 88
p0 −0.0344 ± 0.6861
pull
Entries 89
Mean 743.1
Std Dev 0

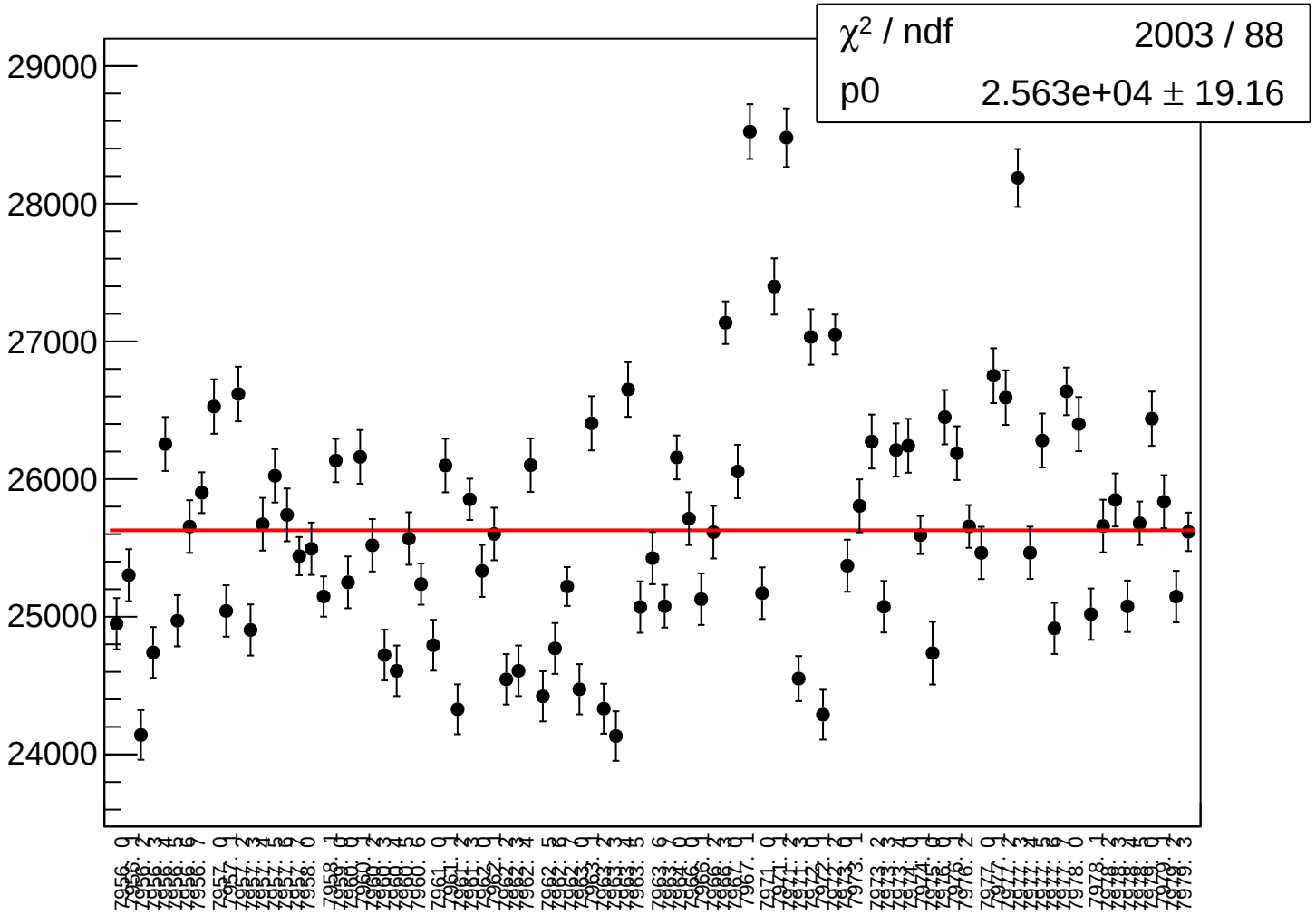

pull1D
Entries 89
Mean 0.003853
Std Dev 1.083

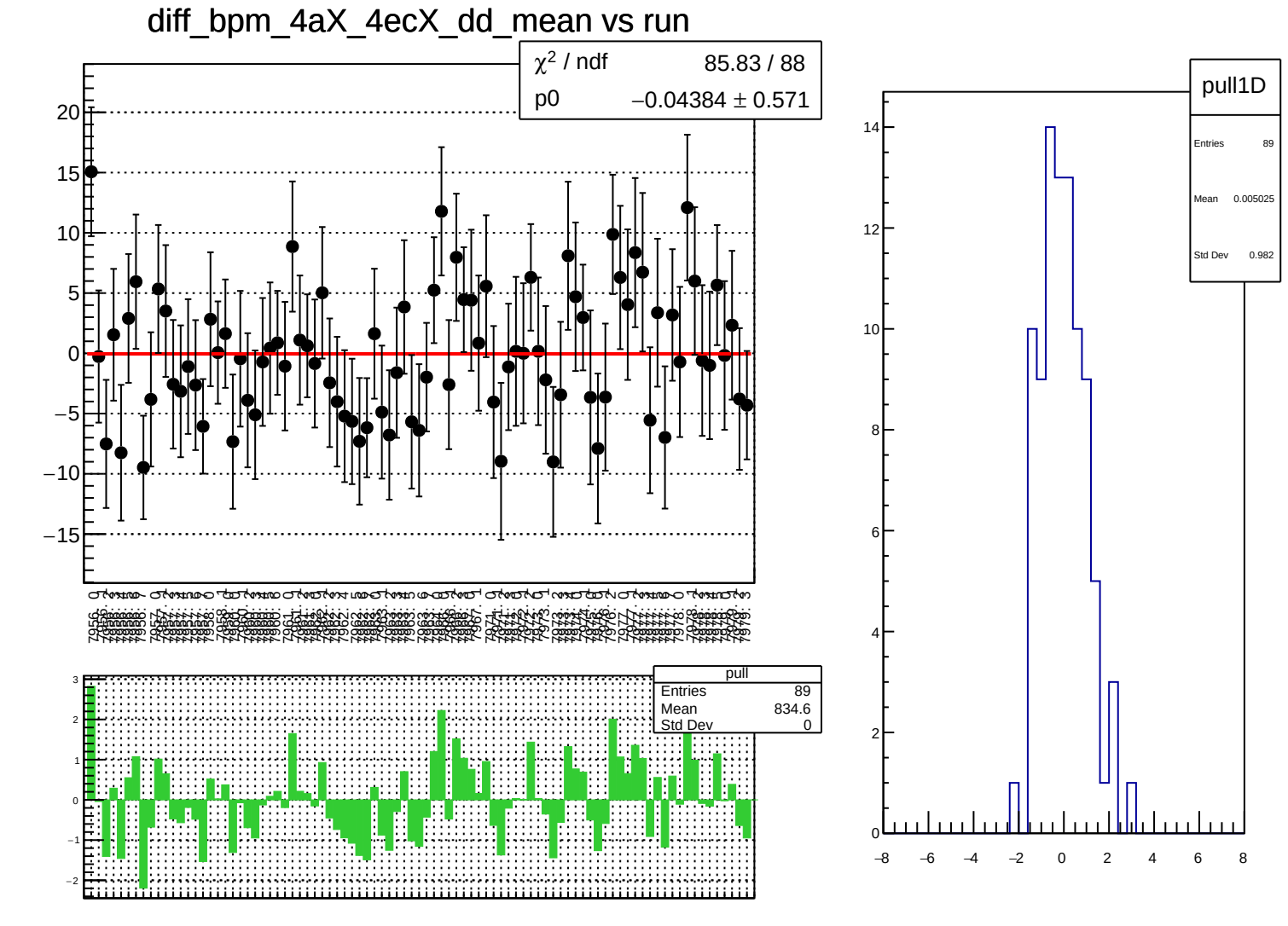

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 7069 / 88
p0 648 ± 0.4852
780
760
740
720
700
680
660
640
620
600
580

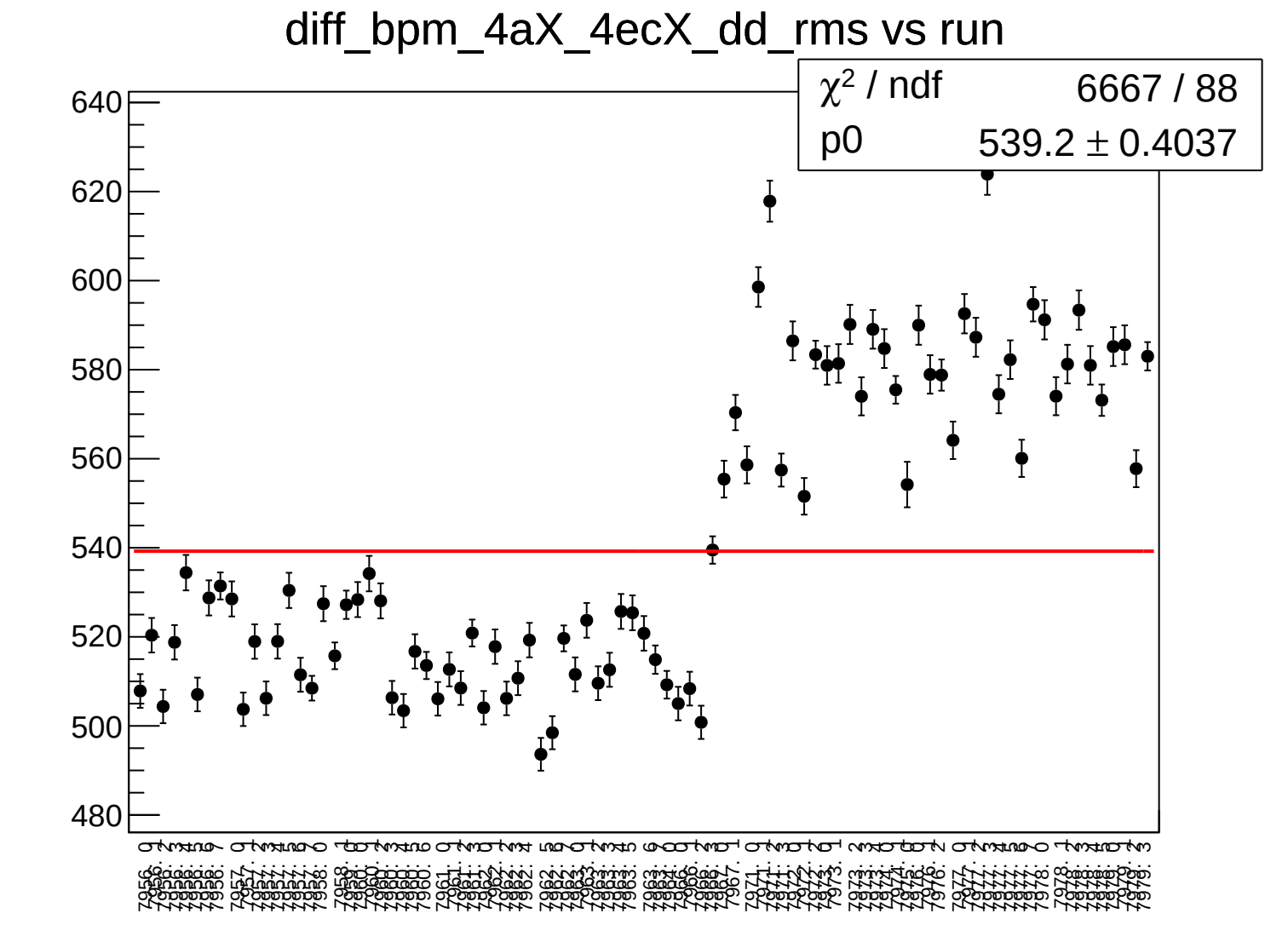

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 112.9 / 88
p0 12.79 ± 27.1
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean −5696
Std Dev 0
4
3
2
1
0
−1
−2

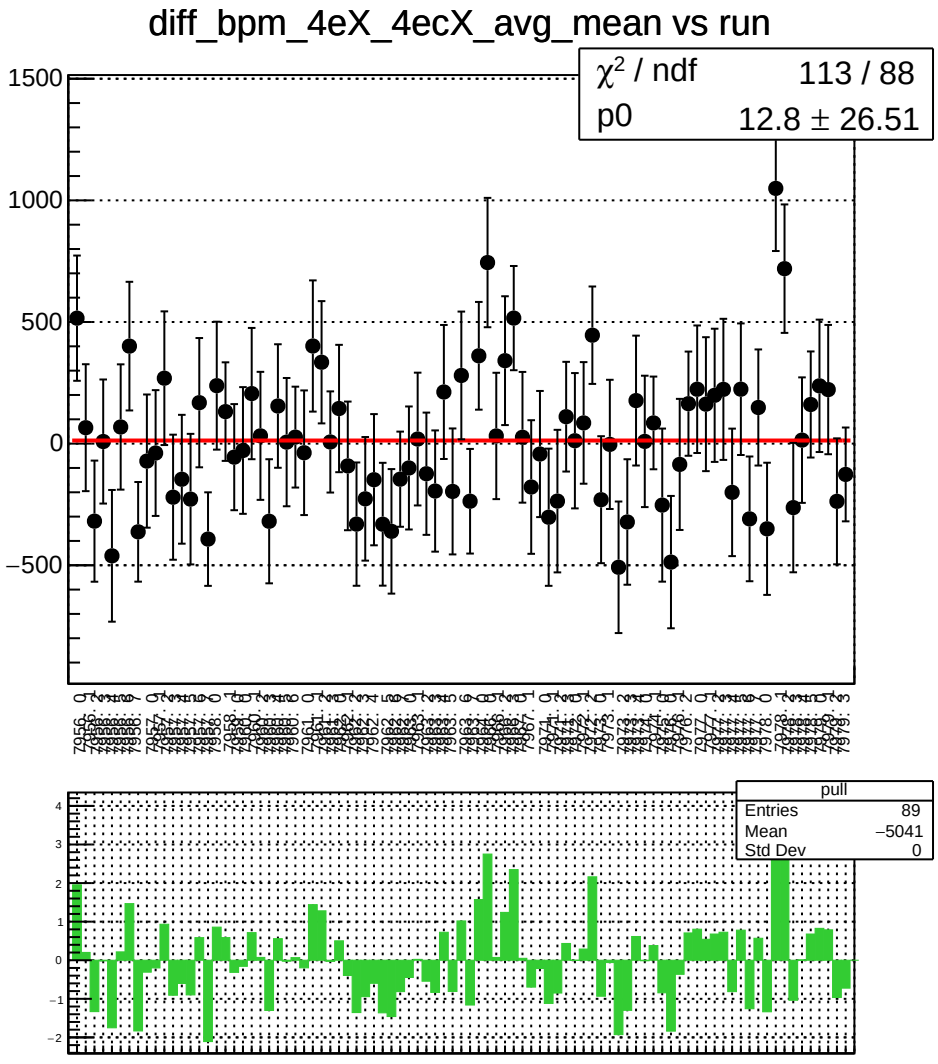

pull1D
Entries 89
Mean −0.000602
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

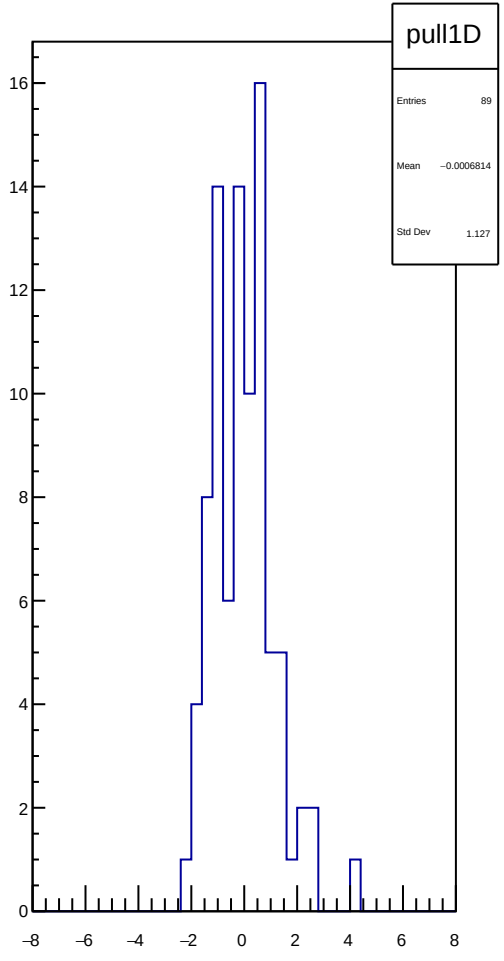
# diff_bpm_4aX_4ecX_avg_rms vs run

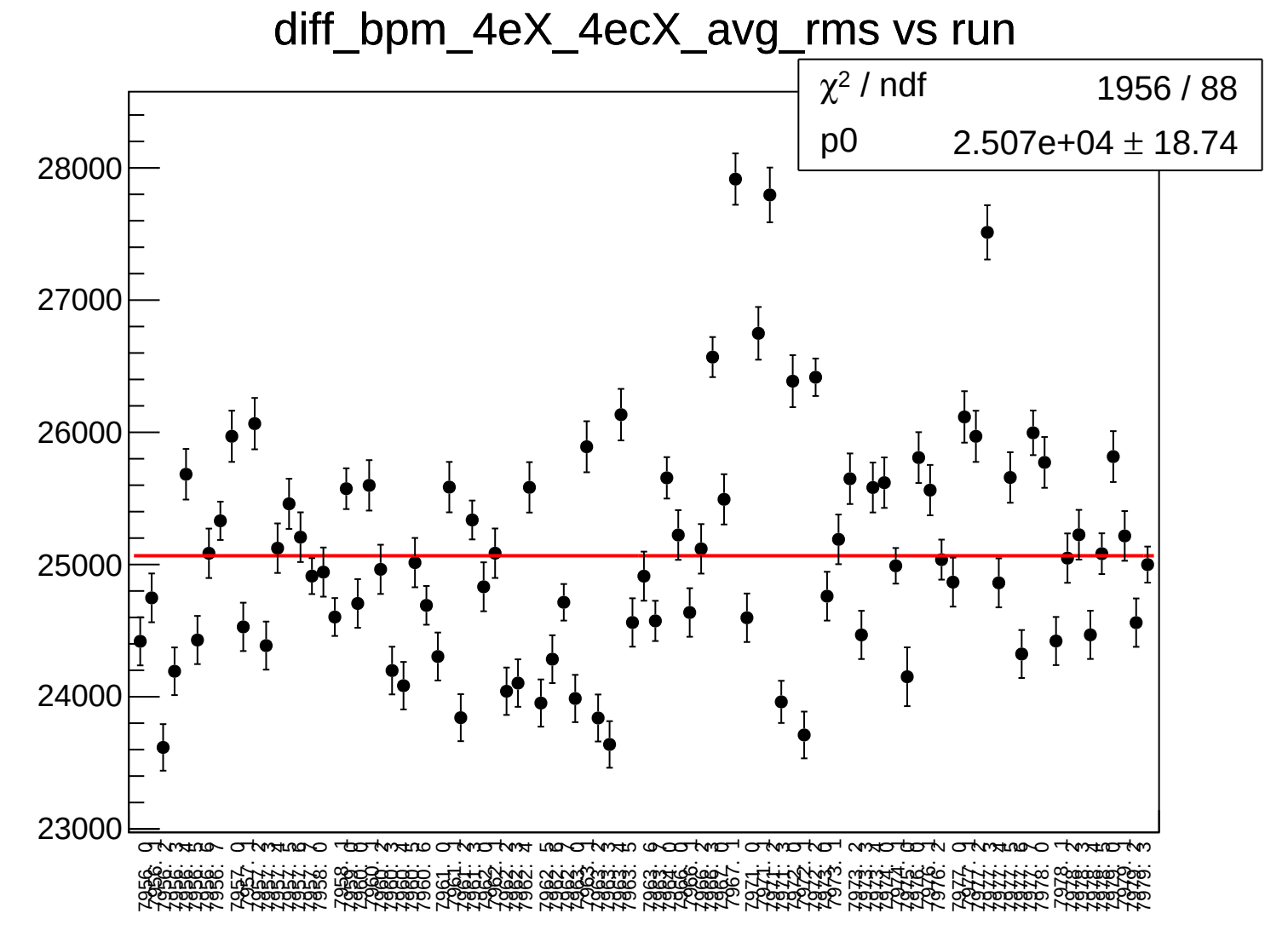


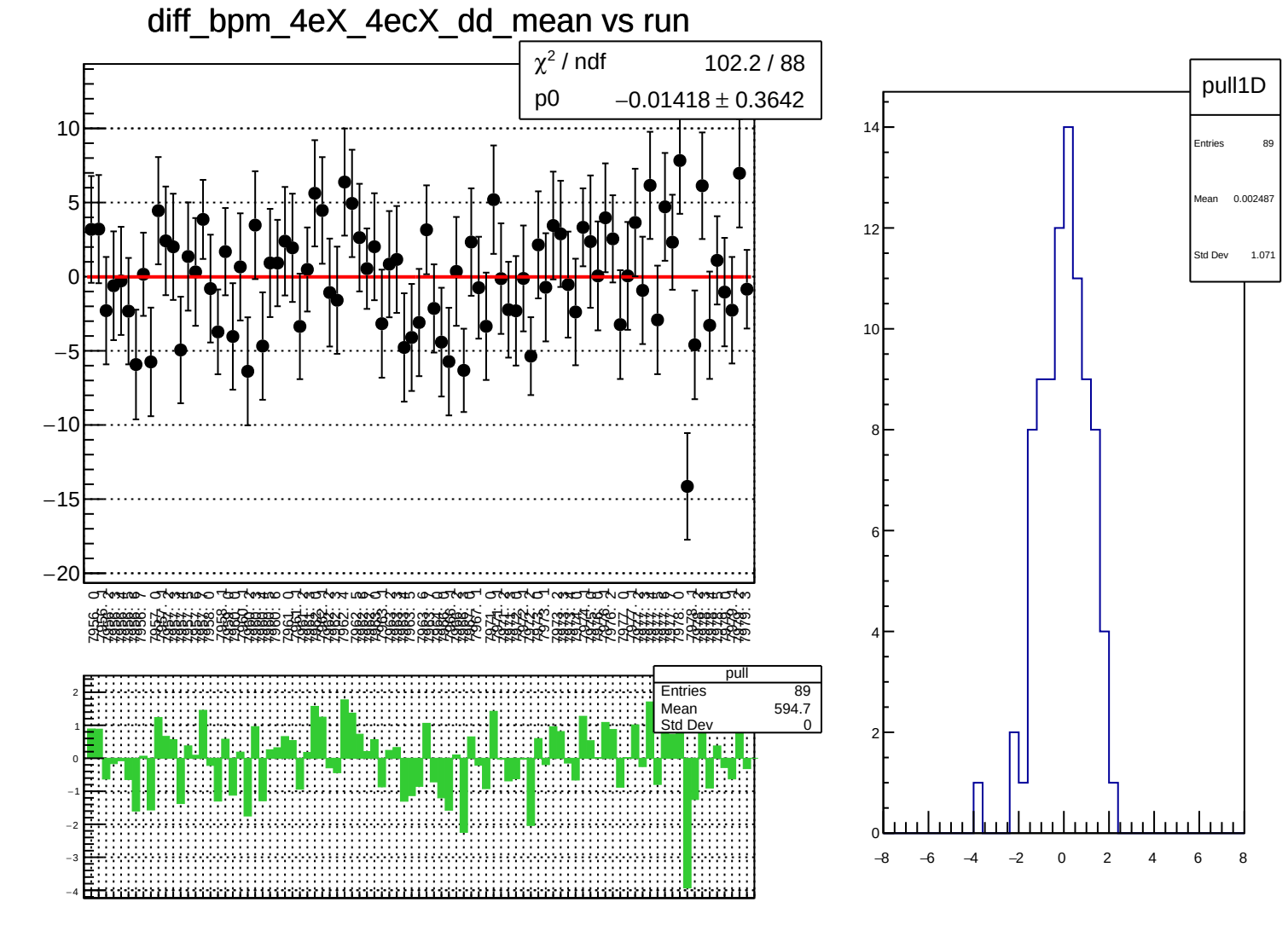

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 85.83 / 88
p0 −0.04384 ± 0.571
pull
Entries 89
Mean 834.6
Std Dev 0
pull1D
Entries 89
Mean 0.005025
Std Dev 0.982

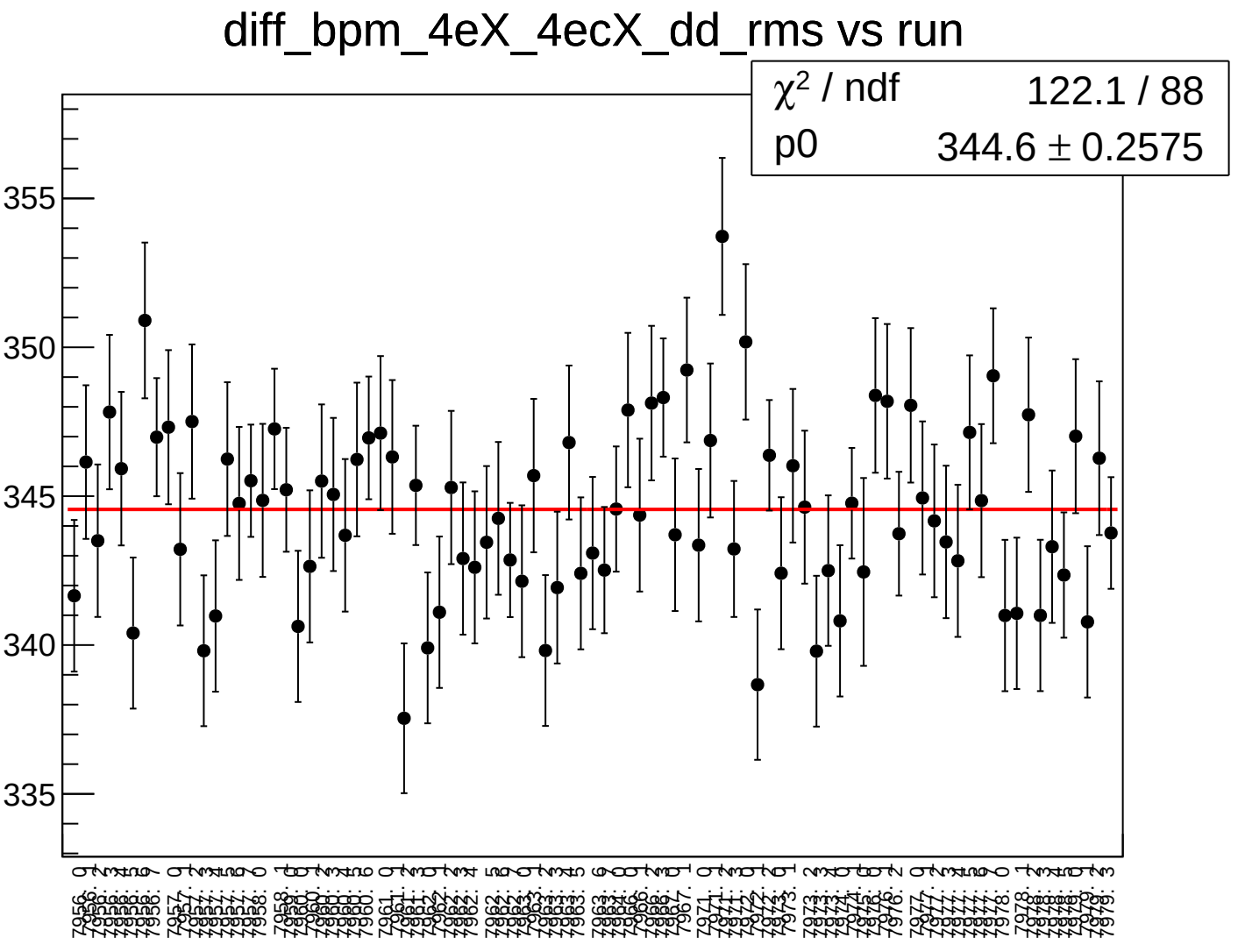

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 6667 / 88
p0 539.2 ± 0.4037
640
620
600
580
560
540
520
500
480

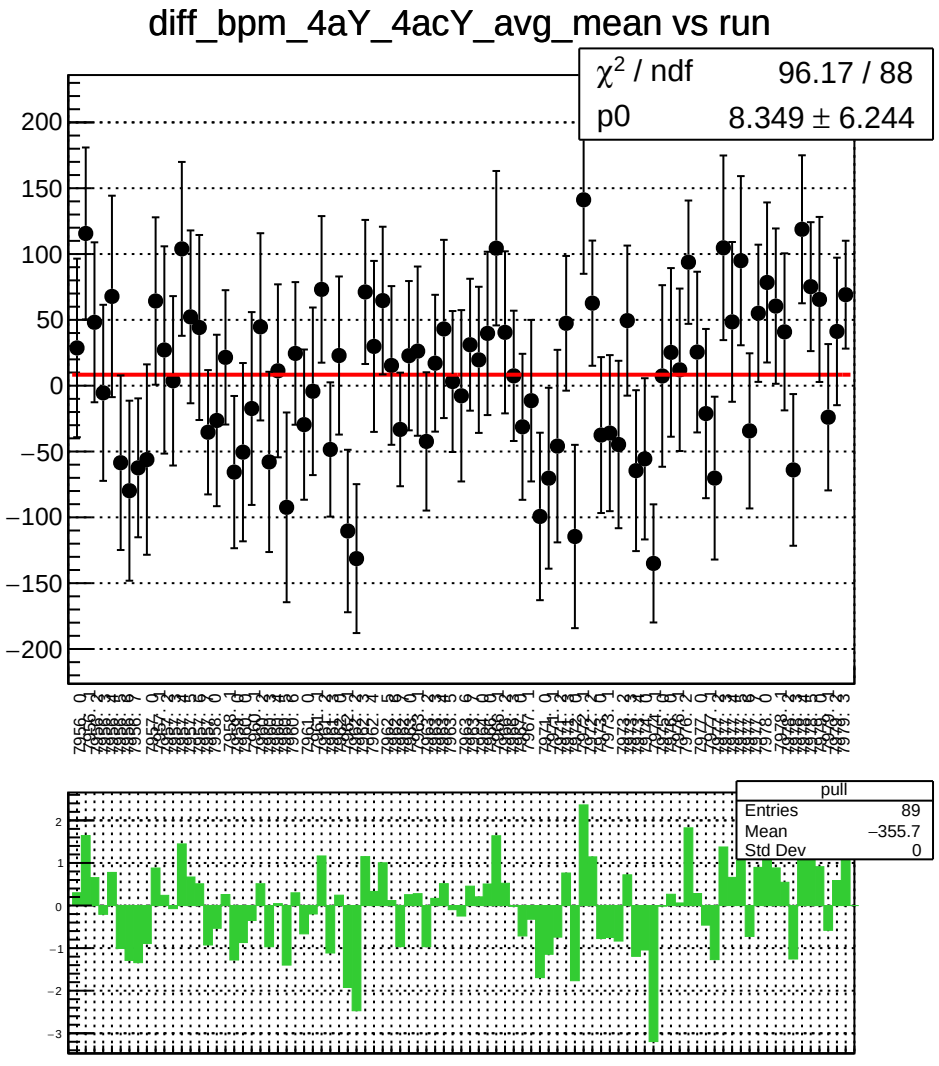

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 113 / 88
p0 12.8 ± 26.51
1500
1000
500
0
−500
pull
Entries 89
Mean −5041
Std Dev 0
4
3
2
1
0
−1
−2

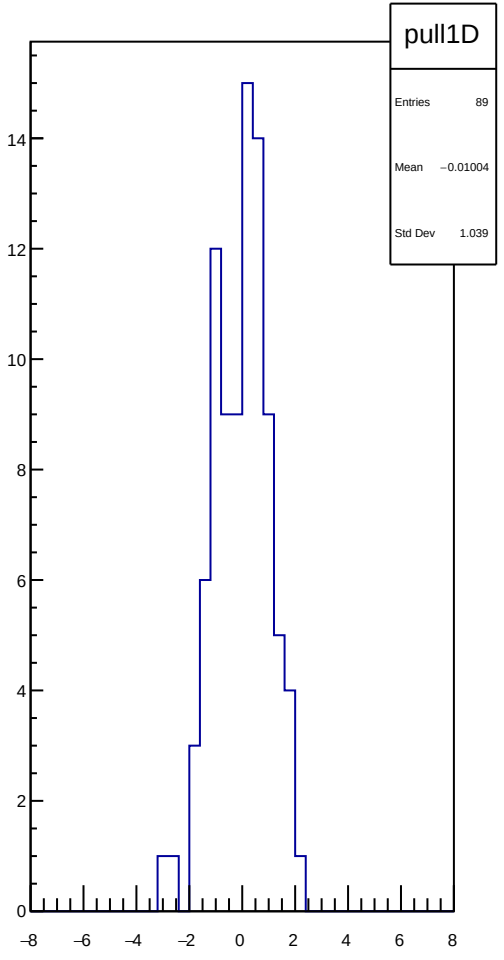

pull1D
Entries 89
Mean −0.0006814
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

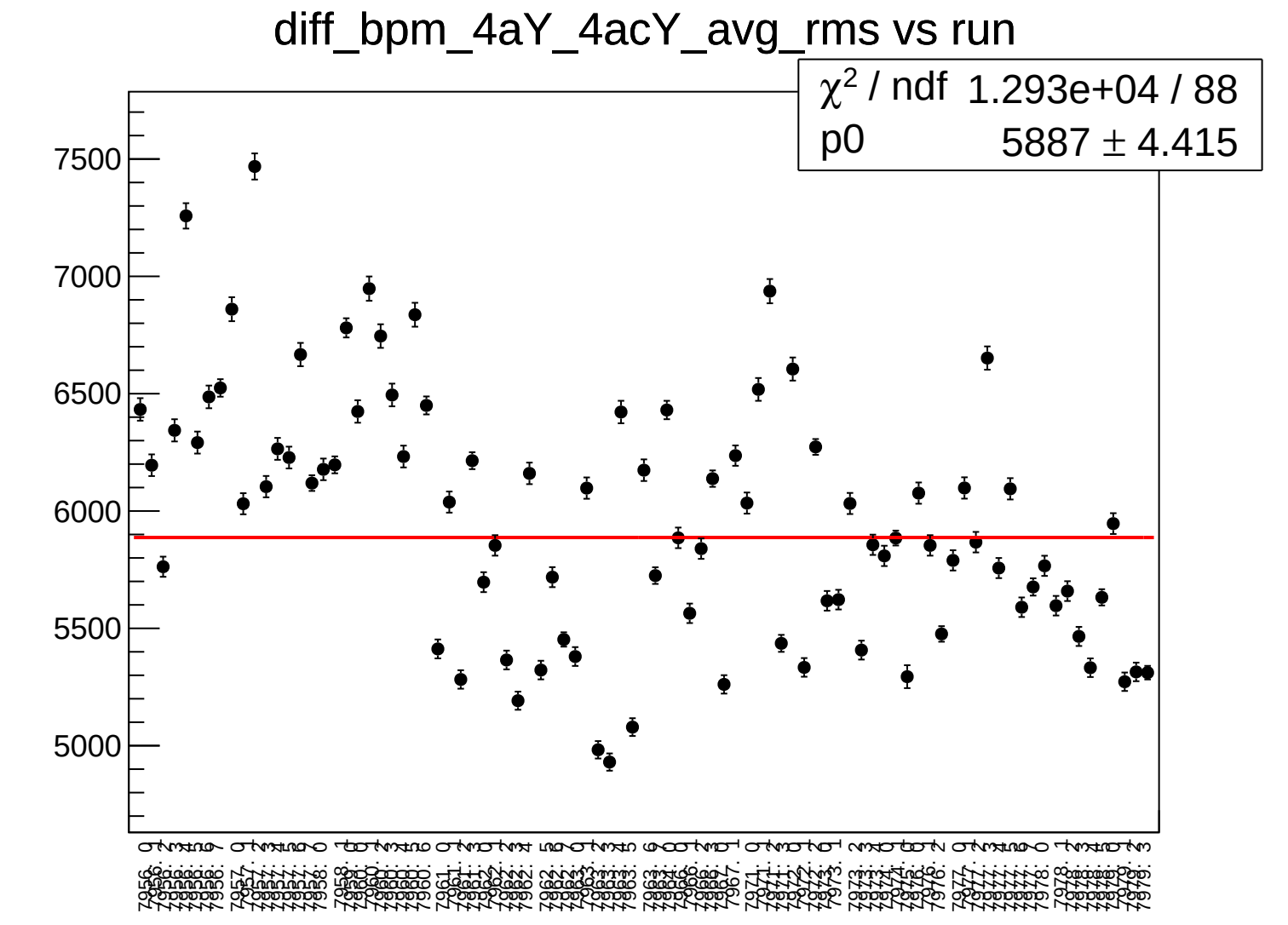

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1956 / 88
p0 2.507e+04 ± 18.74
28000
27000
26000
25000
24000
23000

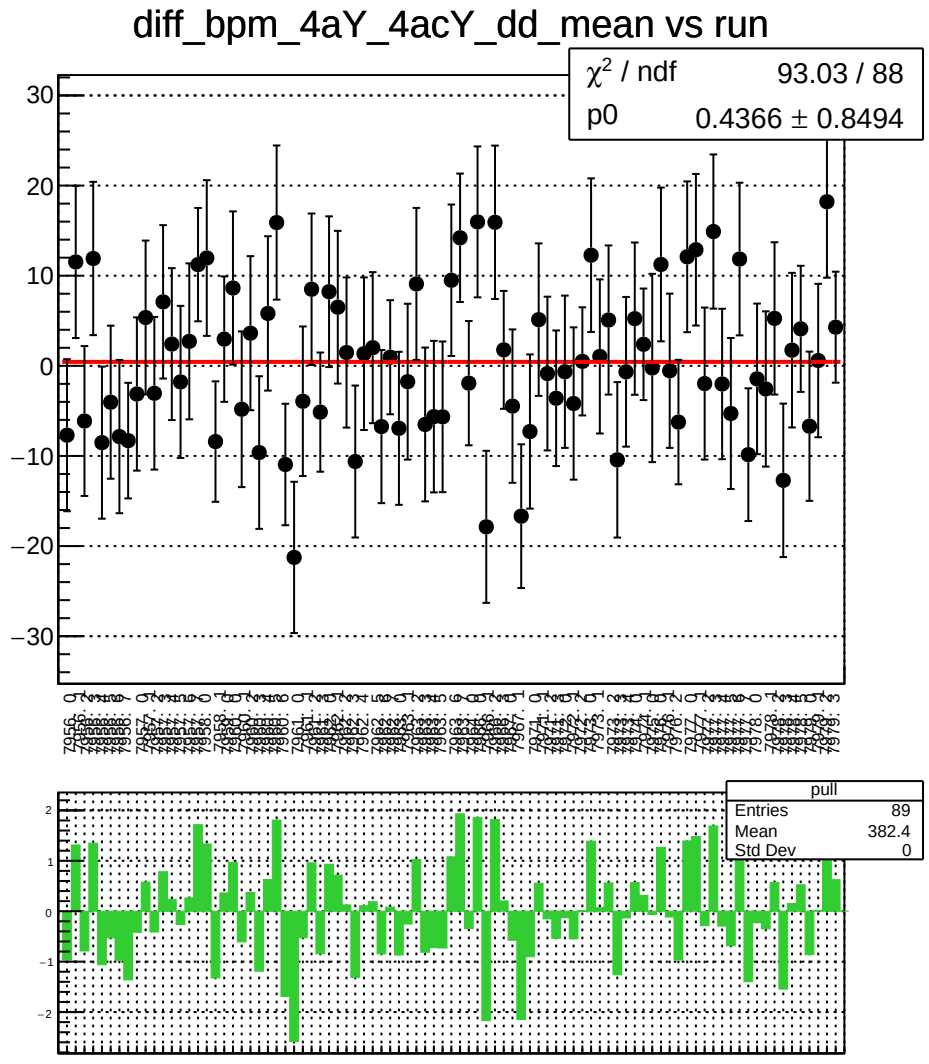

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 102.2 / 88
p0 −0.01418 ± 0.3642
pull
Entries 89
Mean 594.7
Std Dev 0
pull1D
Entries 89
Mean 0.002487
Std Dev 1.071

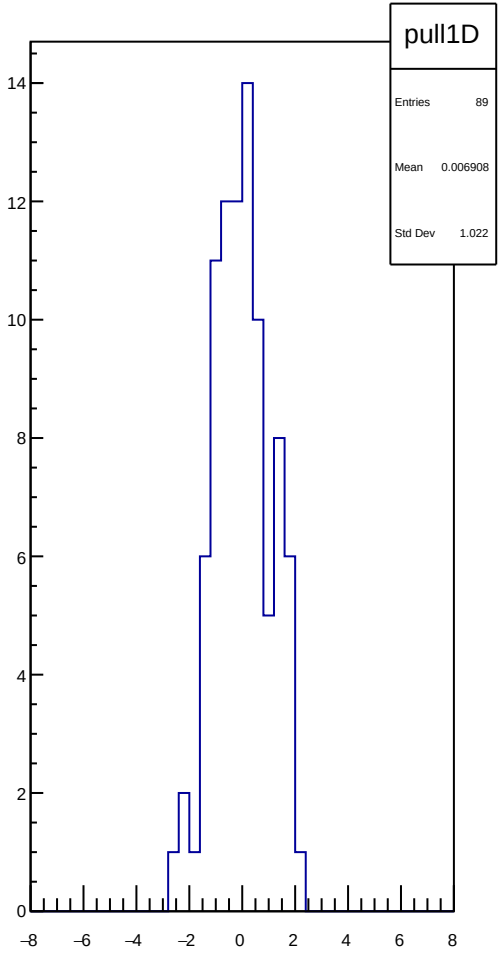

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 122.1 / 88
p0 344.6 ± 0.2575
355
350
345
340
335

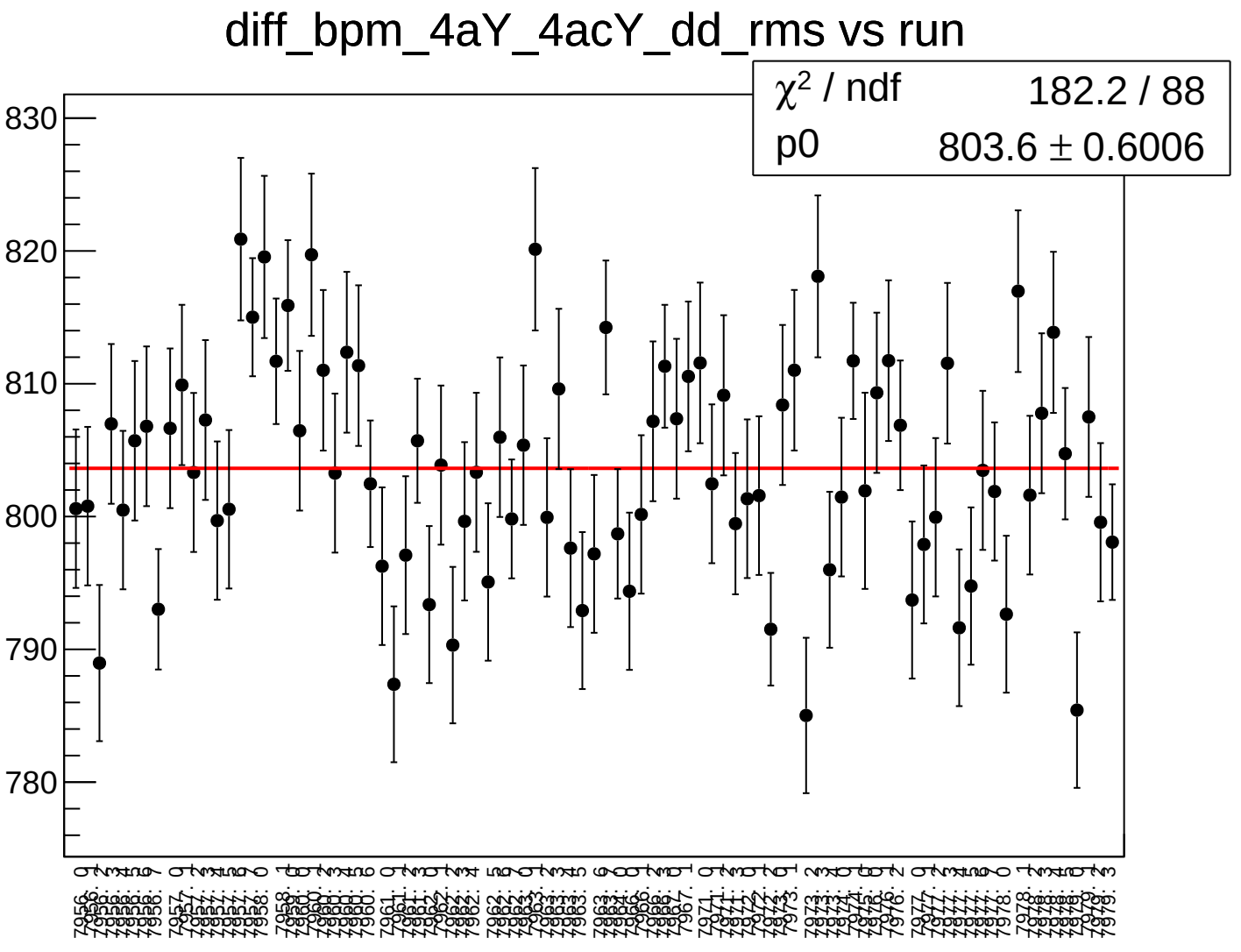

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 96.17 / 88
p0 8.349 ± 6.244
pull
Entries 89
Mean −355.7
Std Dev 0

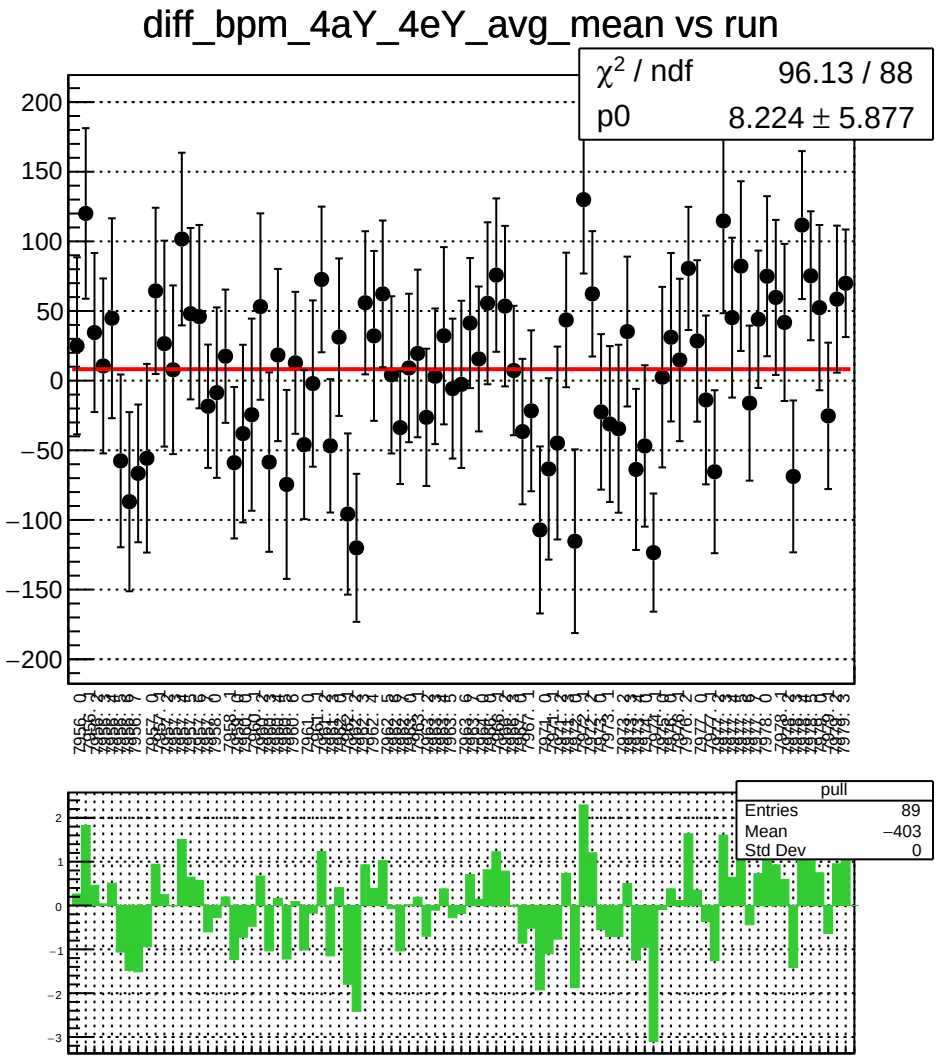

pull1D
Entries 89
Mean −0.01004
Std Dev 1.039

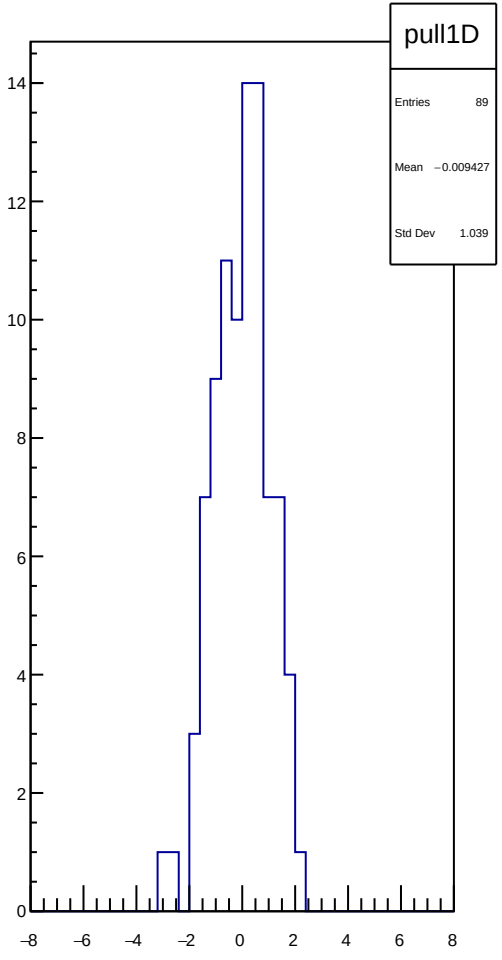

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1.293e+04 / 88
p0 5887 ± 4.415
7500
7000
6500
6000
5500
5000

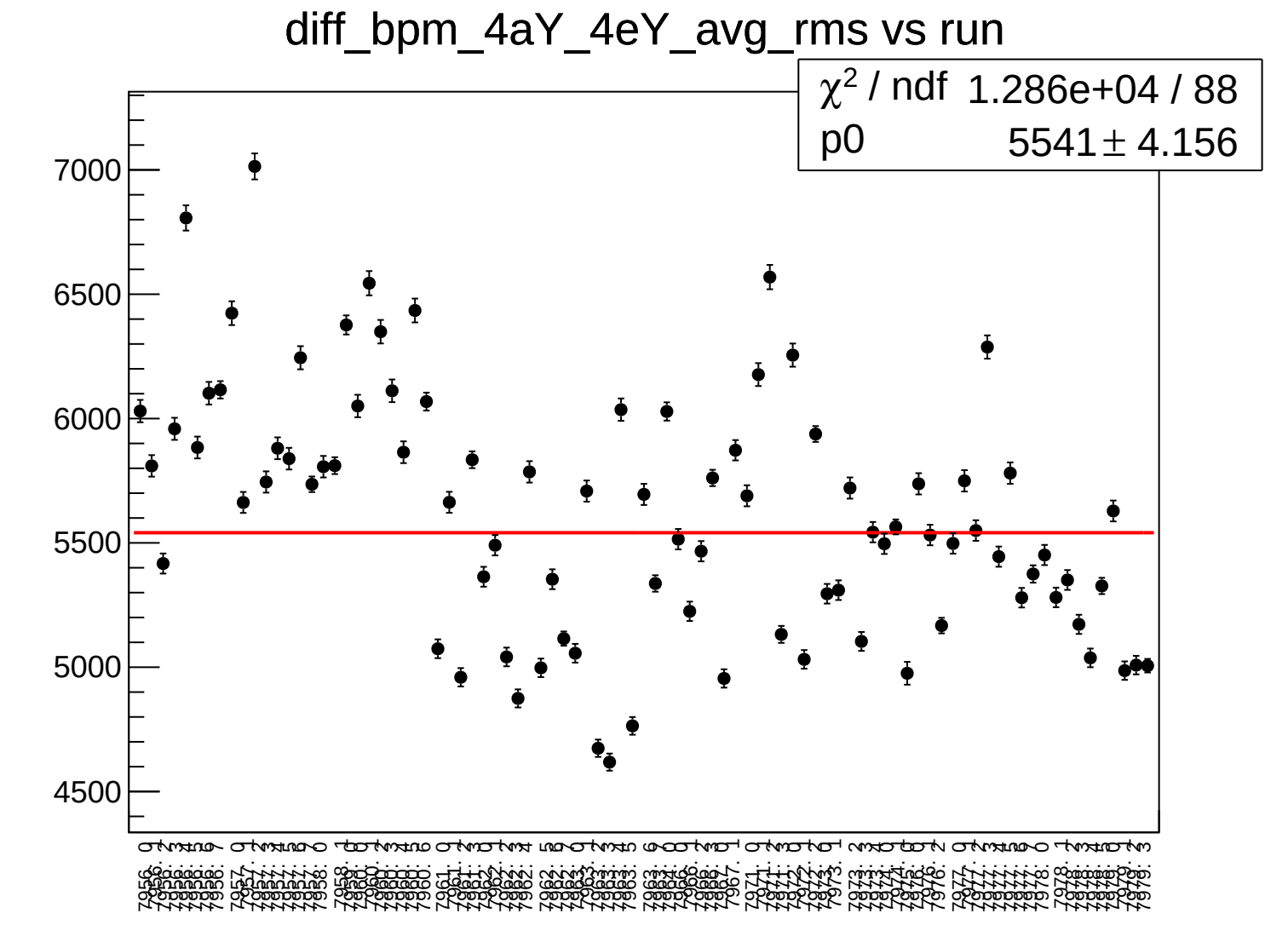

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 93.03 / 88
p0 0.4366 ± 0.8494
pull
Entries 89
Mean 382.4
Std Dev 0

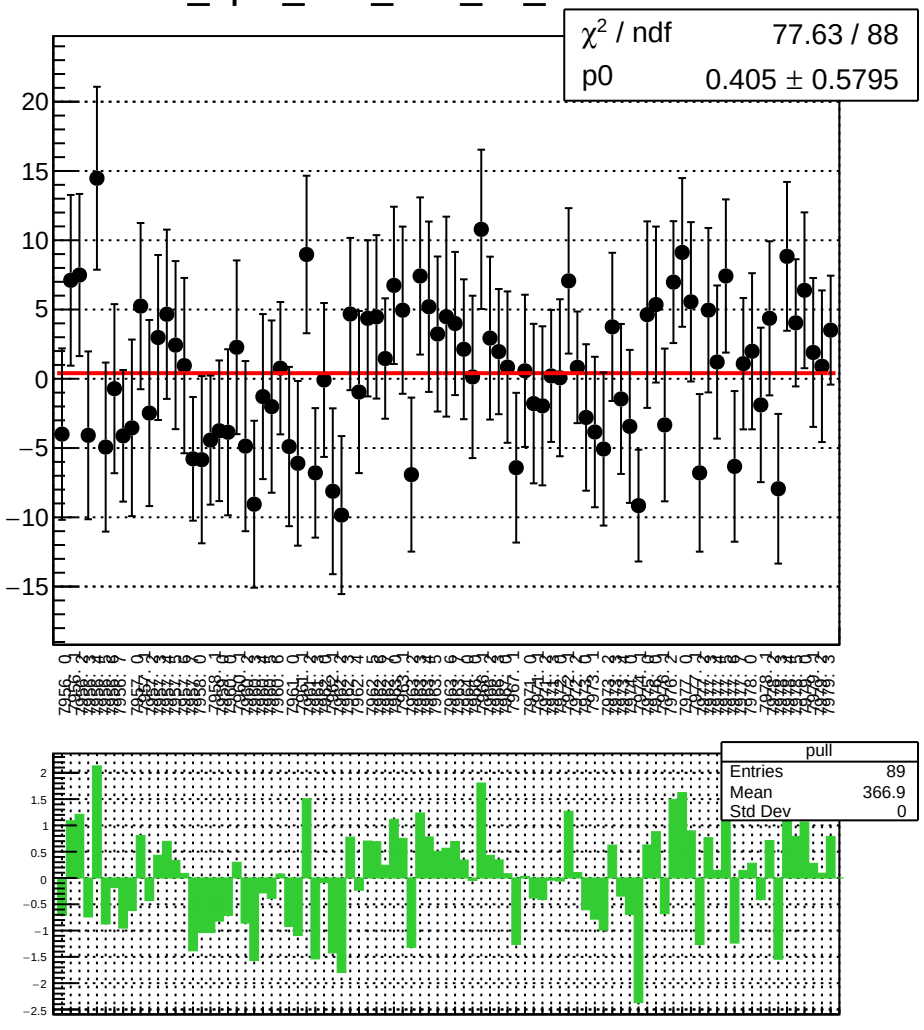

pull1D
Entries 89
Mean 0.006908
Std Dev 1.022

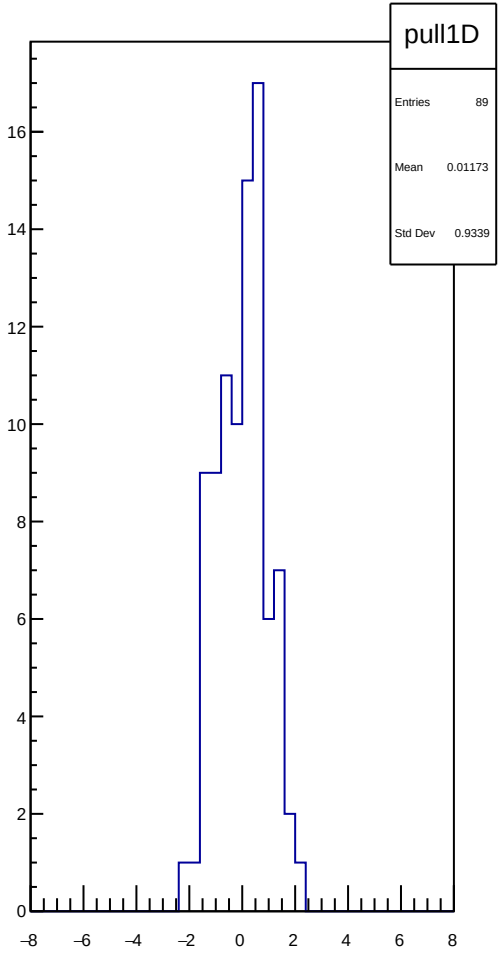

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 182.2 / 88
p0 803.6 ± 0.6006
830
820
810
800
790
780

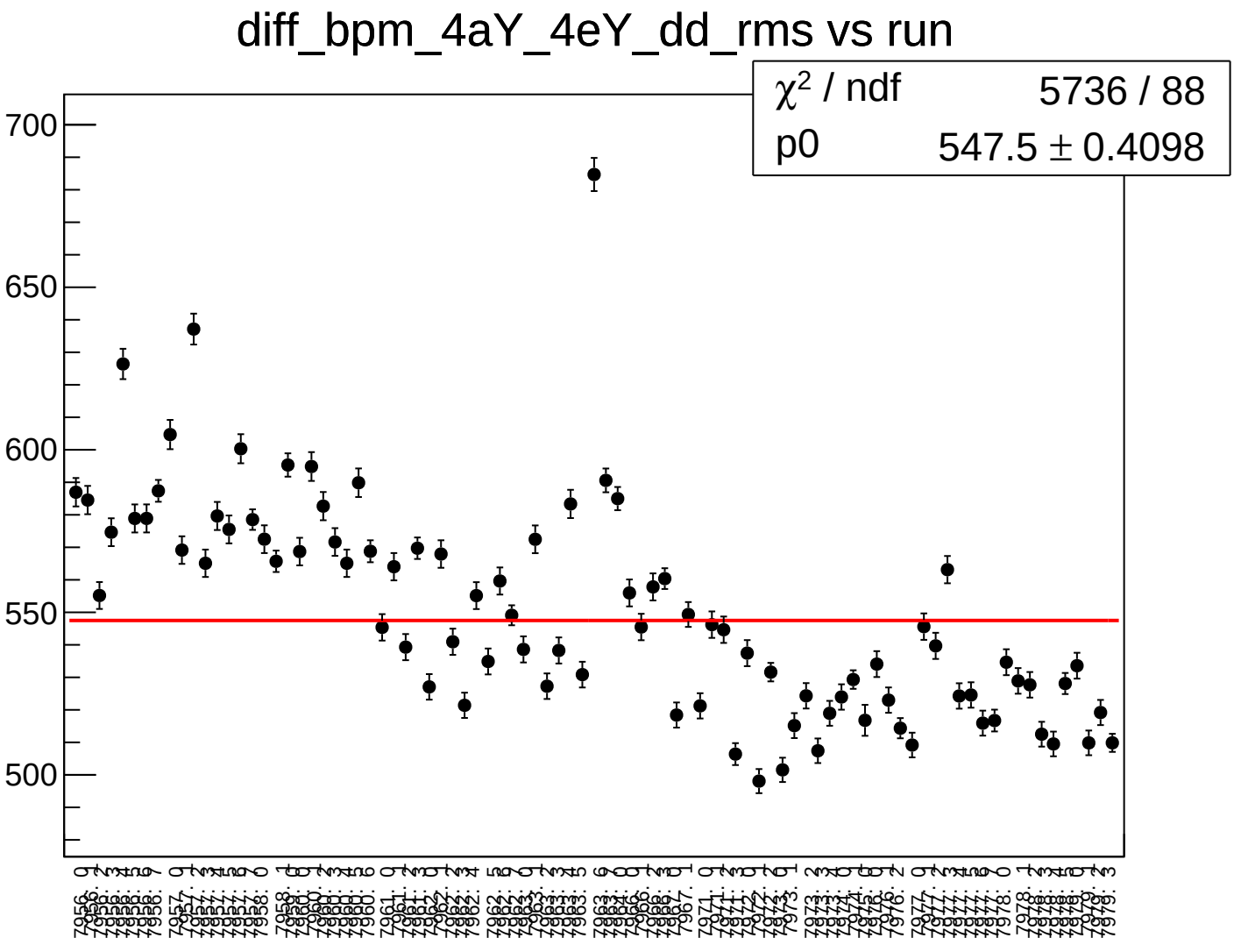

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 96.13 / 88
p0 8.224 ± 5.877
pull
Entries 89
Mean −403
Std Dev 0

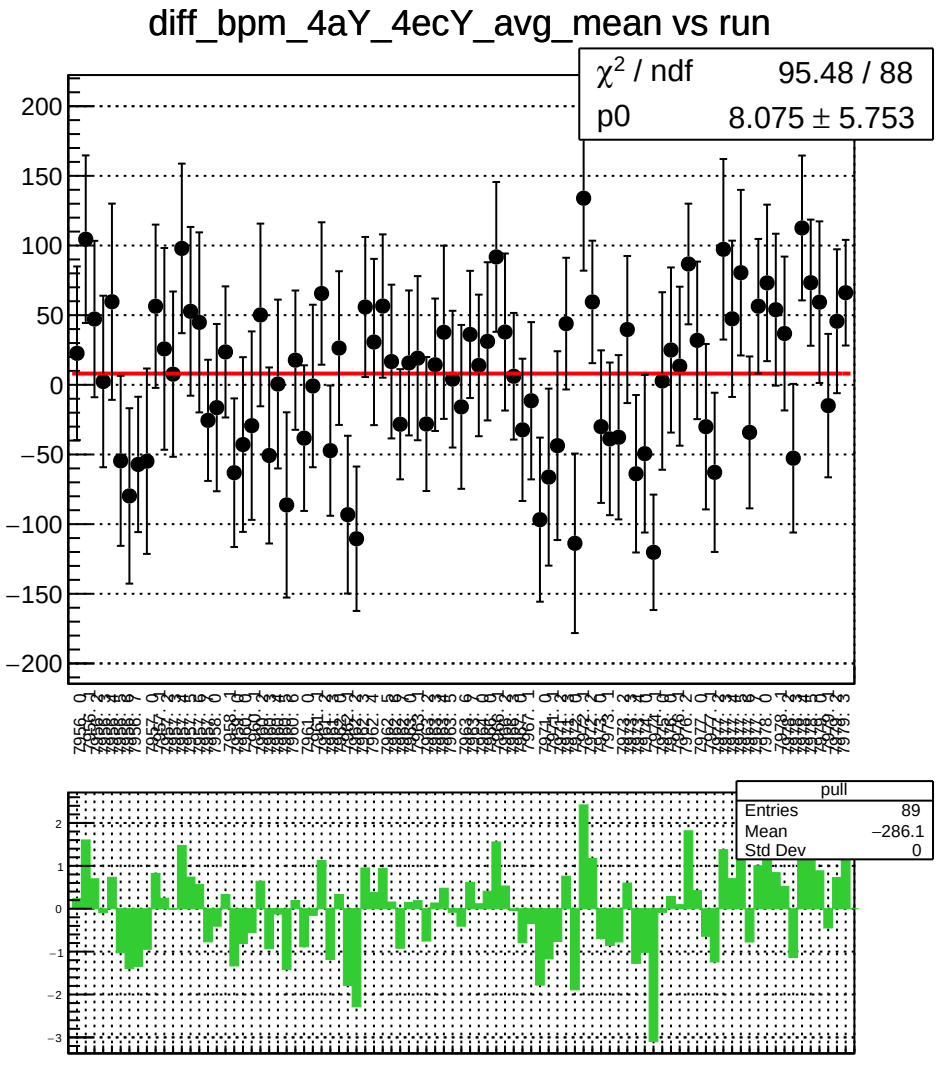

pull1D
Entries 89
Mean −0.009427
Std Dev 1.039

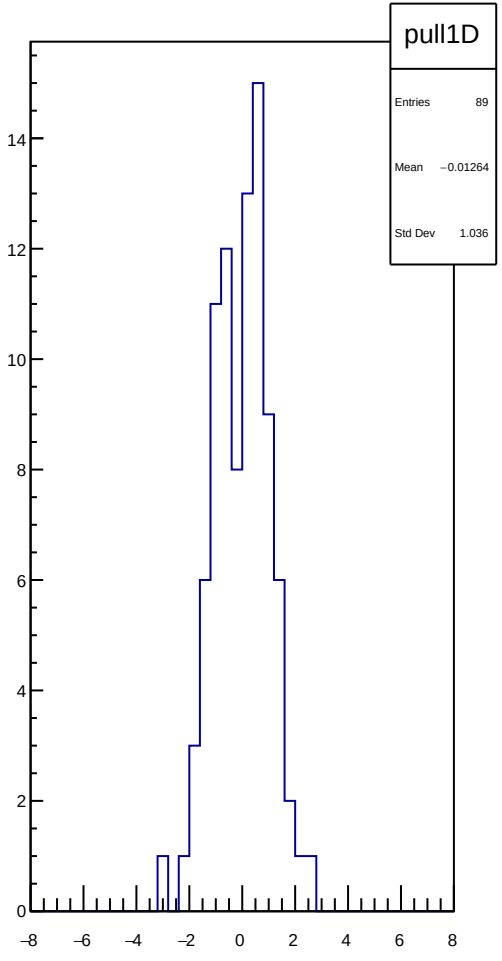

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 1.286e+04 / 88
p0 5541 ± 4.156
7000
6500
6000
5500
5000
4500

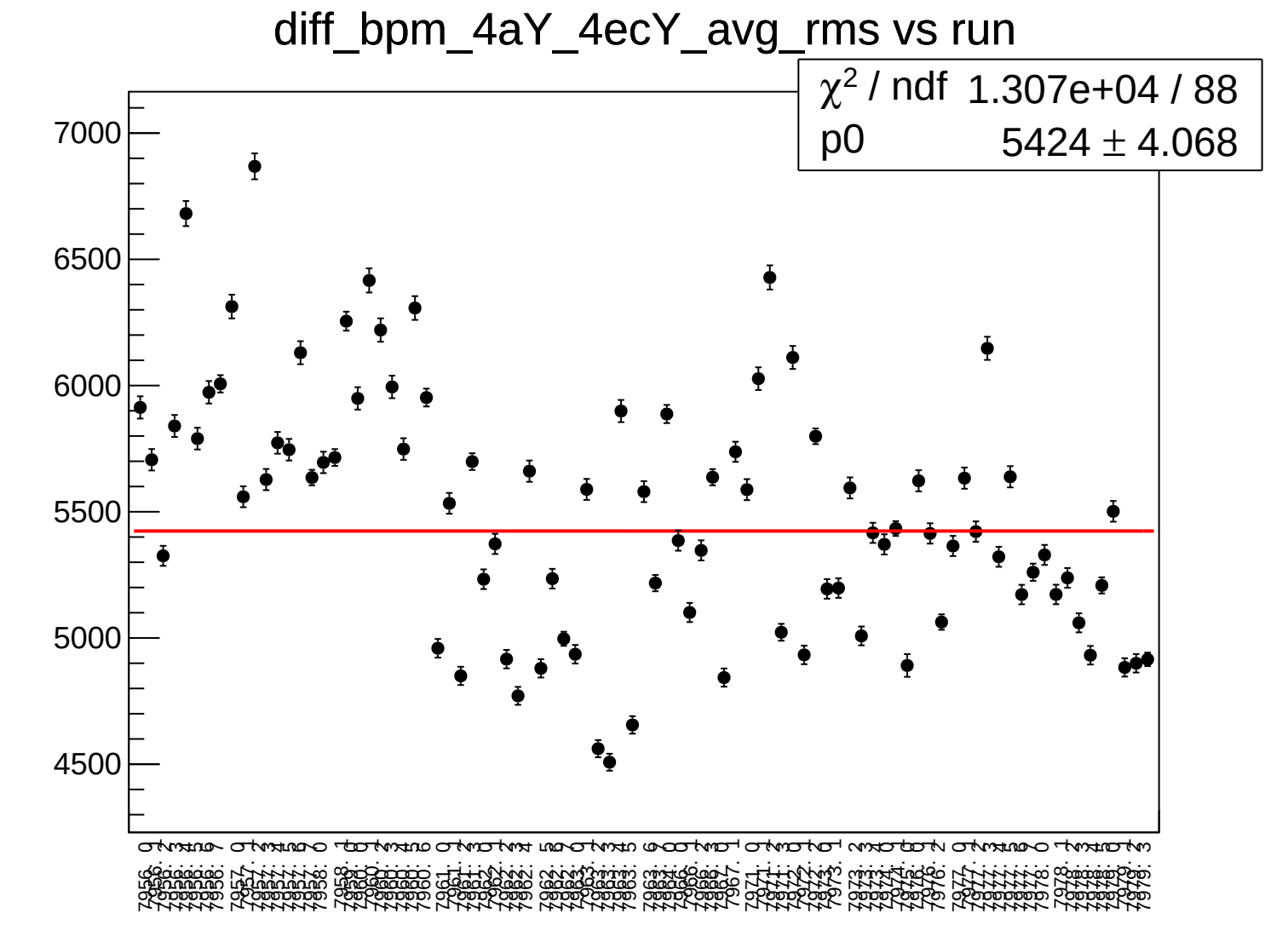

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 77.63 / 88
p0 0.405 ± 0.5795
pull
Entries 89
Mean 366.9
Std Dev 0

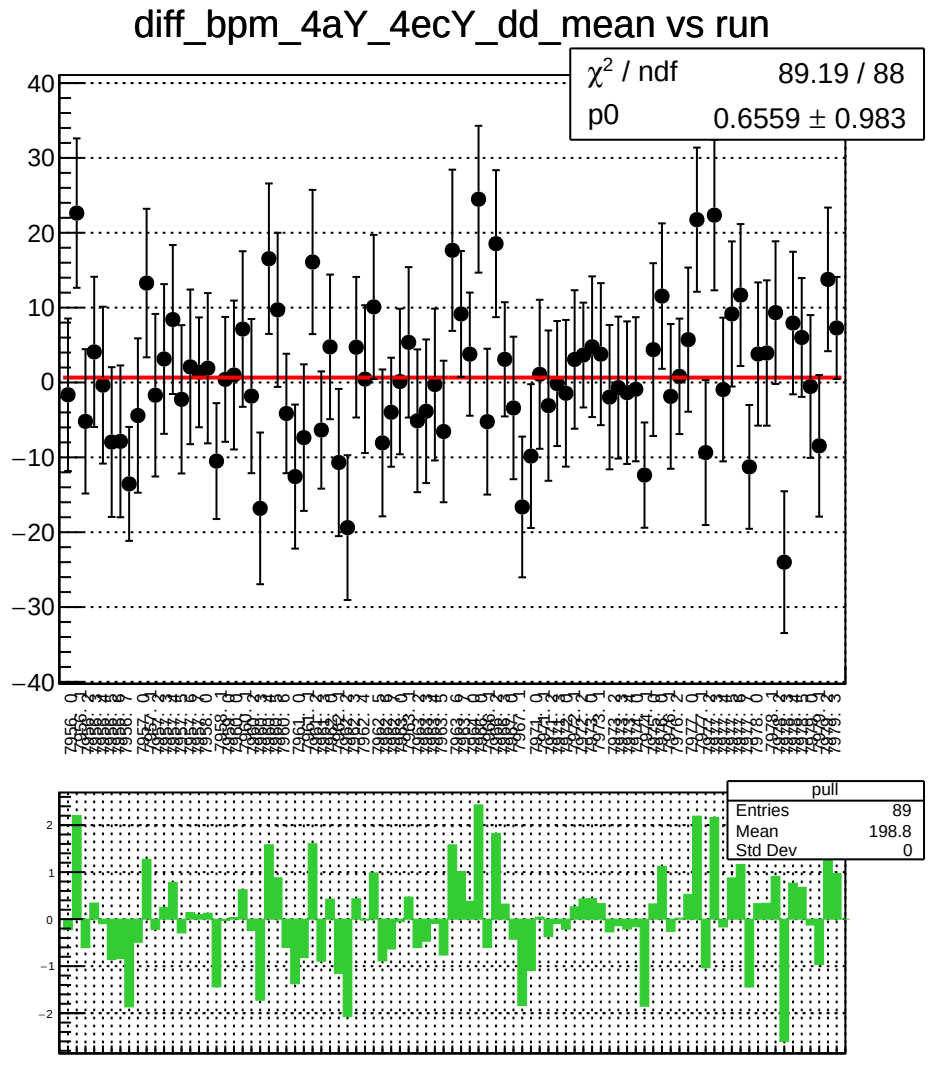

pull1D
Entries 89
Mean 0.01173
Std Dev 0.9339

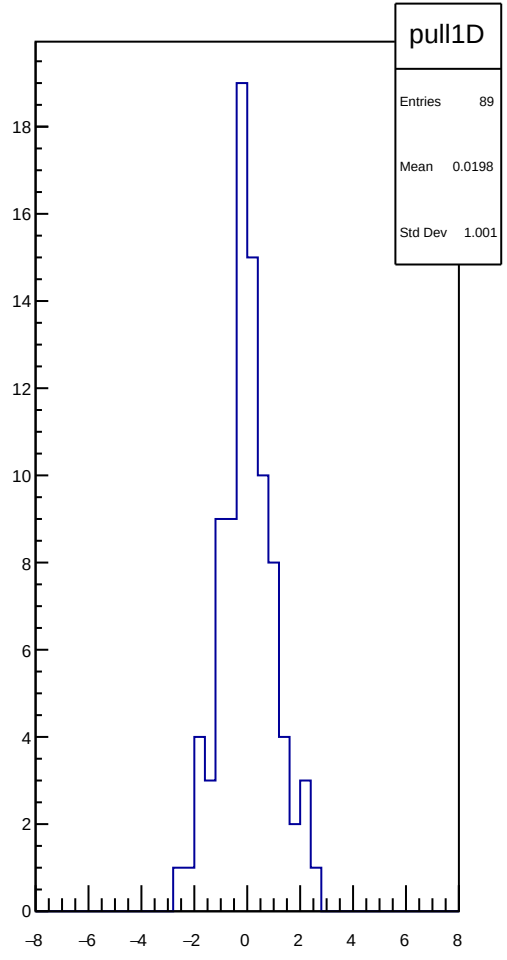

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 5736 / 88
p0 547.5 ± 0.4098
700
650
600
550
500

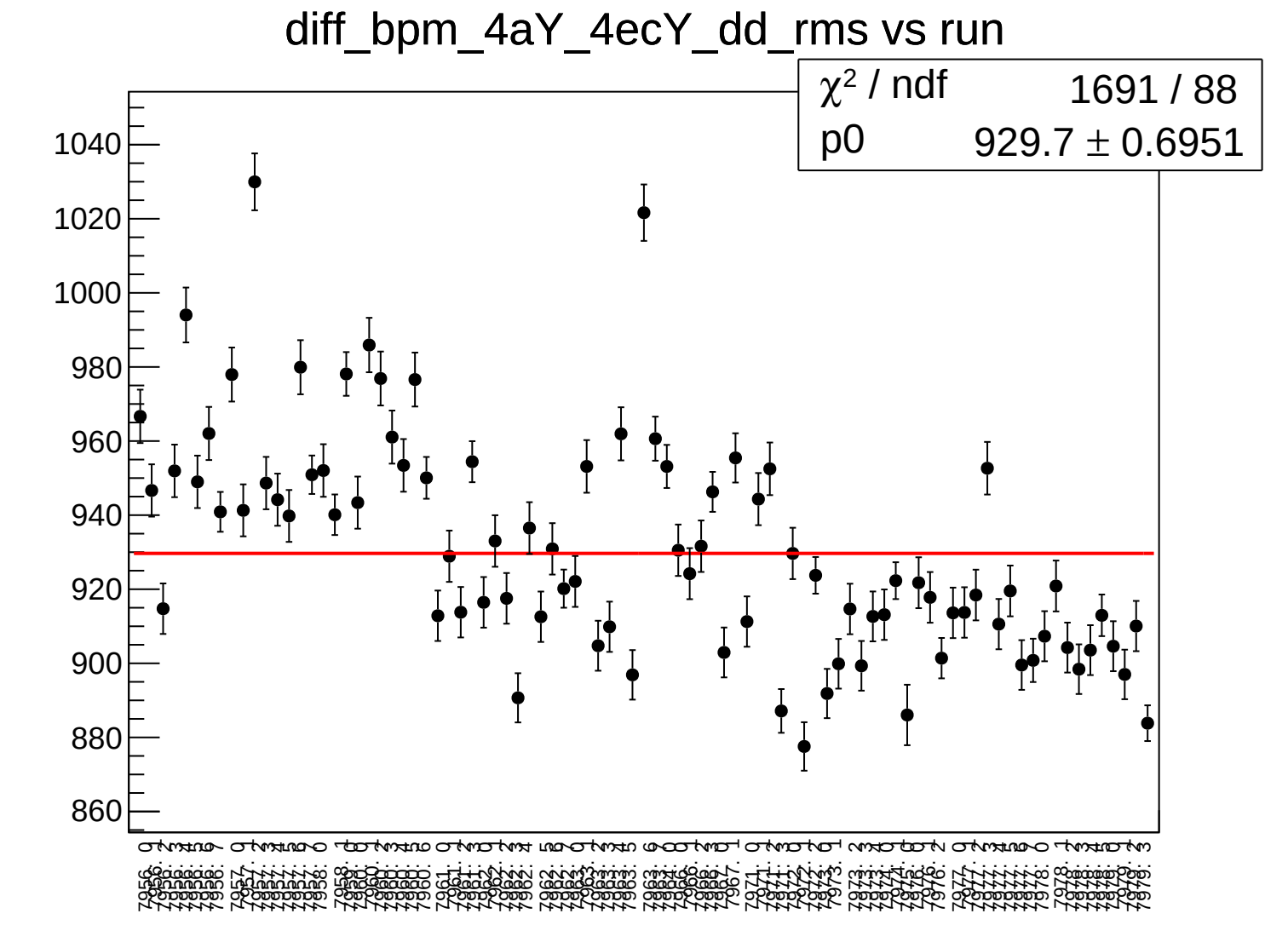

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 95.48 / 88
p0 8.075 ± 5.753
pull
Entries 89
Mean −286.1
Std Dev 0

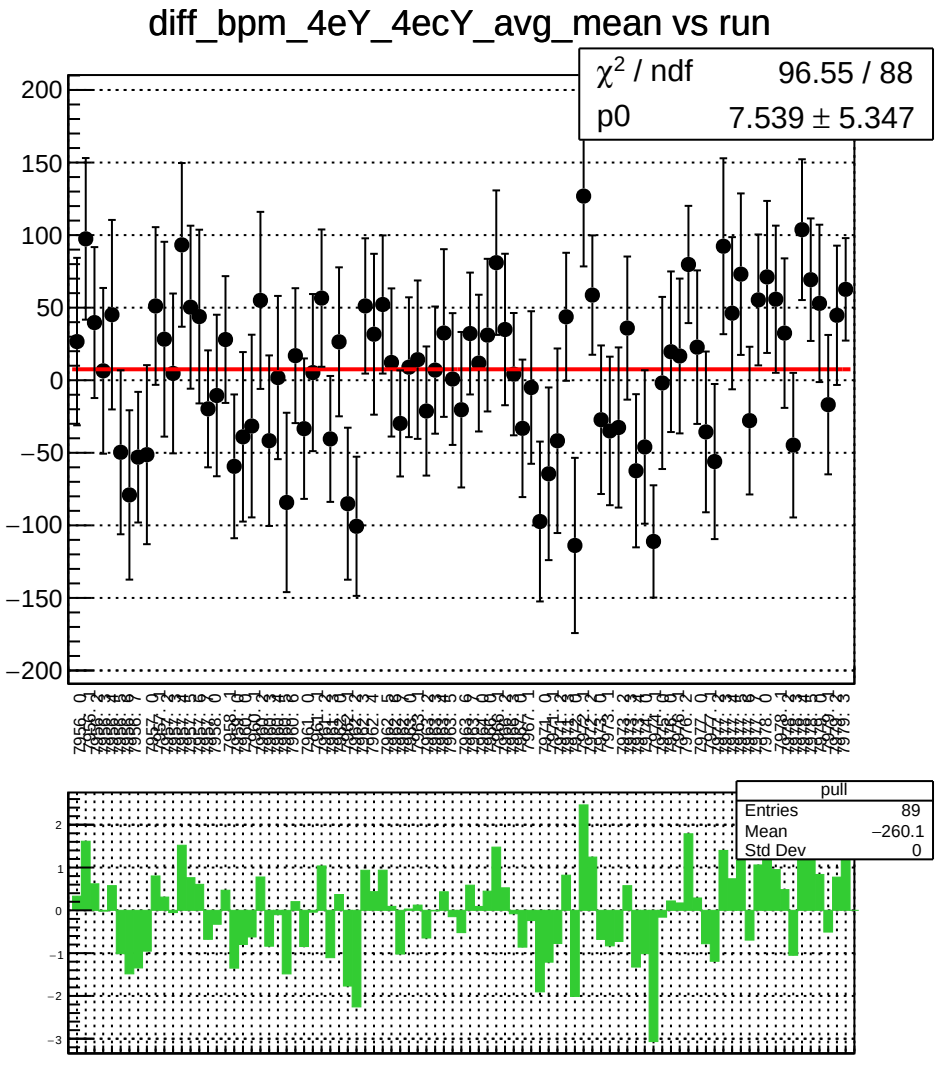

pull1D
Entries 89
Mean −0.01264
Std Dev 1.036

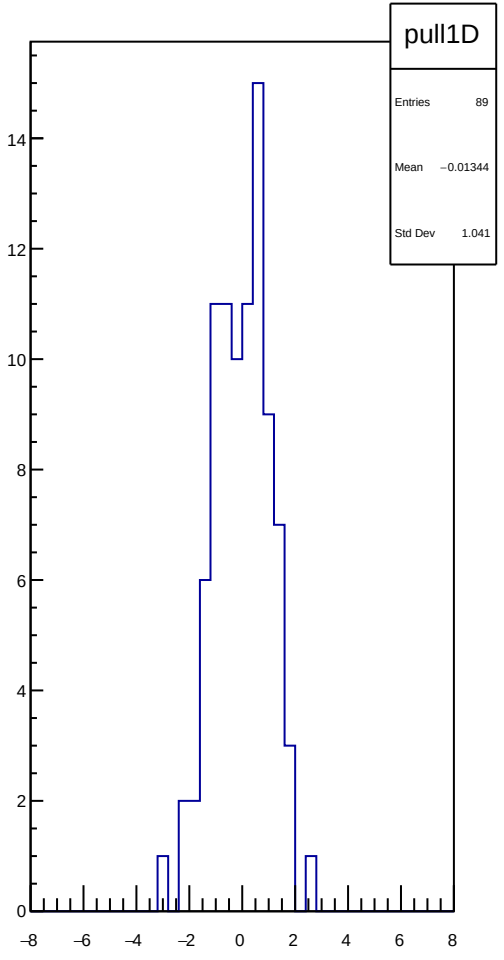

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1.307e+04 / 88
p0 5424 ± 4.068
7000
6500
6000
5500
5000
4500

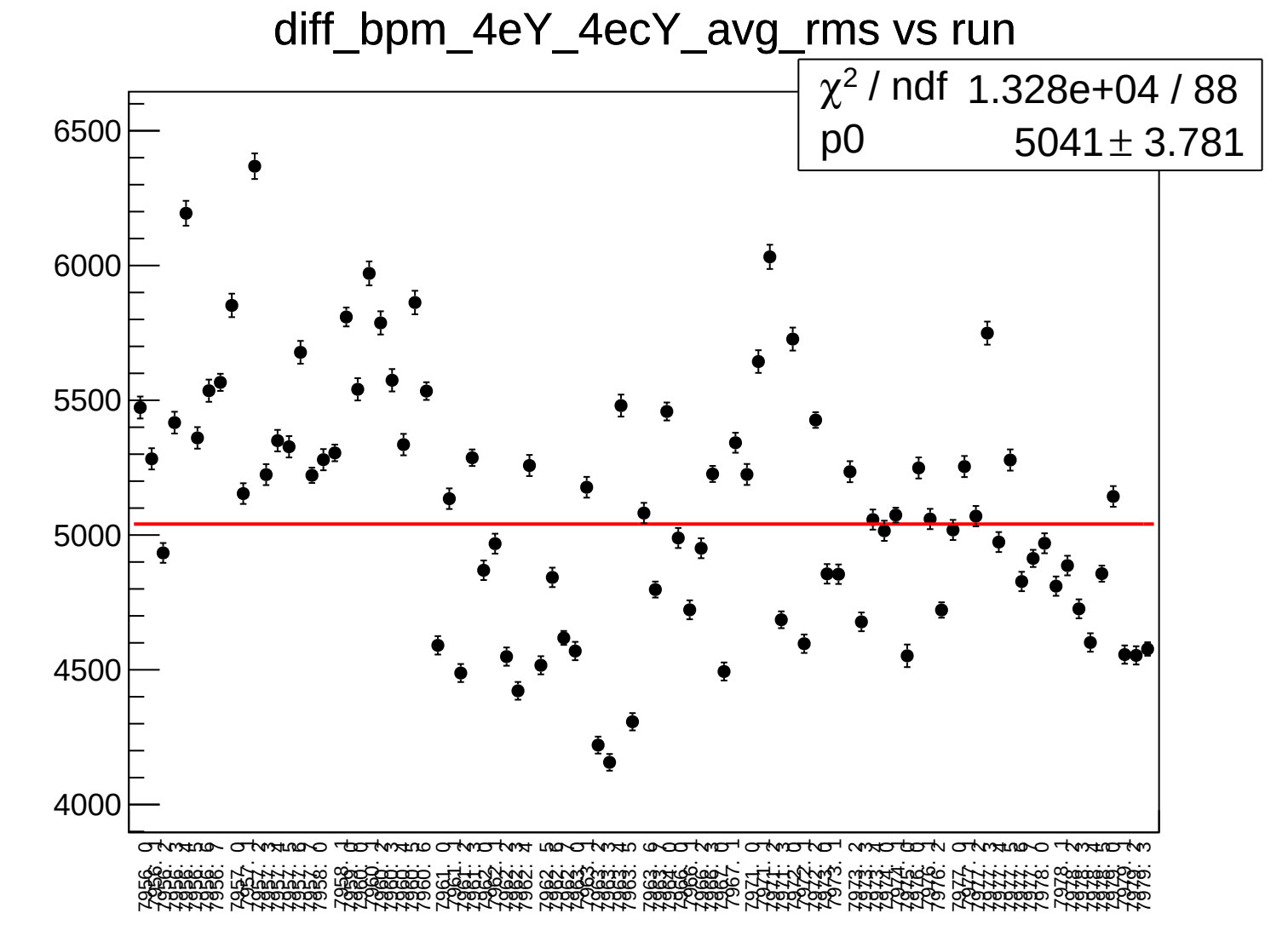

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 89.19 / 88
p0 0.6559 ± 0.983
pull
Entries 89
Mean 198.8
Std Dev 0

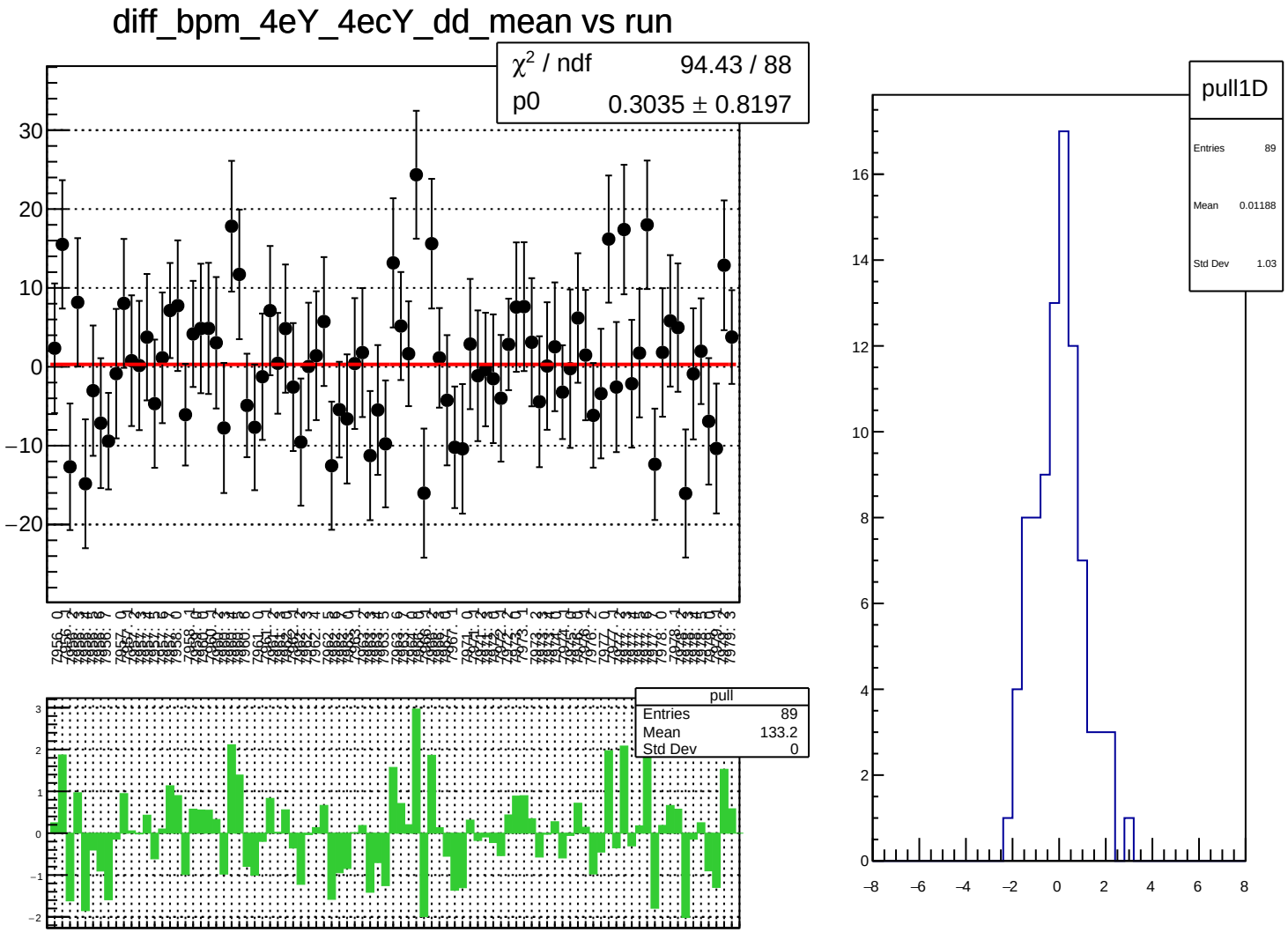

pull1D
Entries 89
Mean 0.0198
Std Dev 1.001

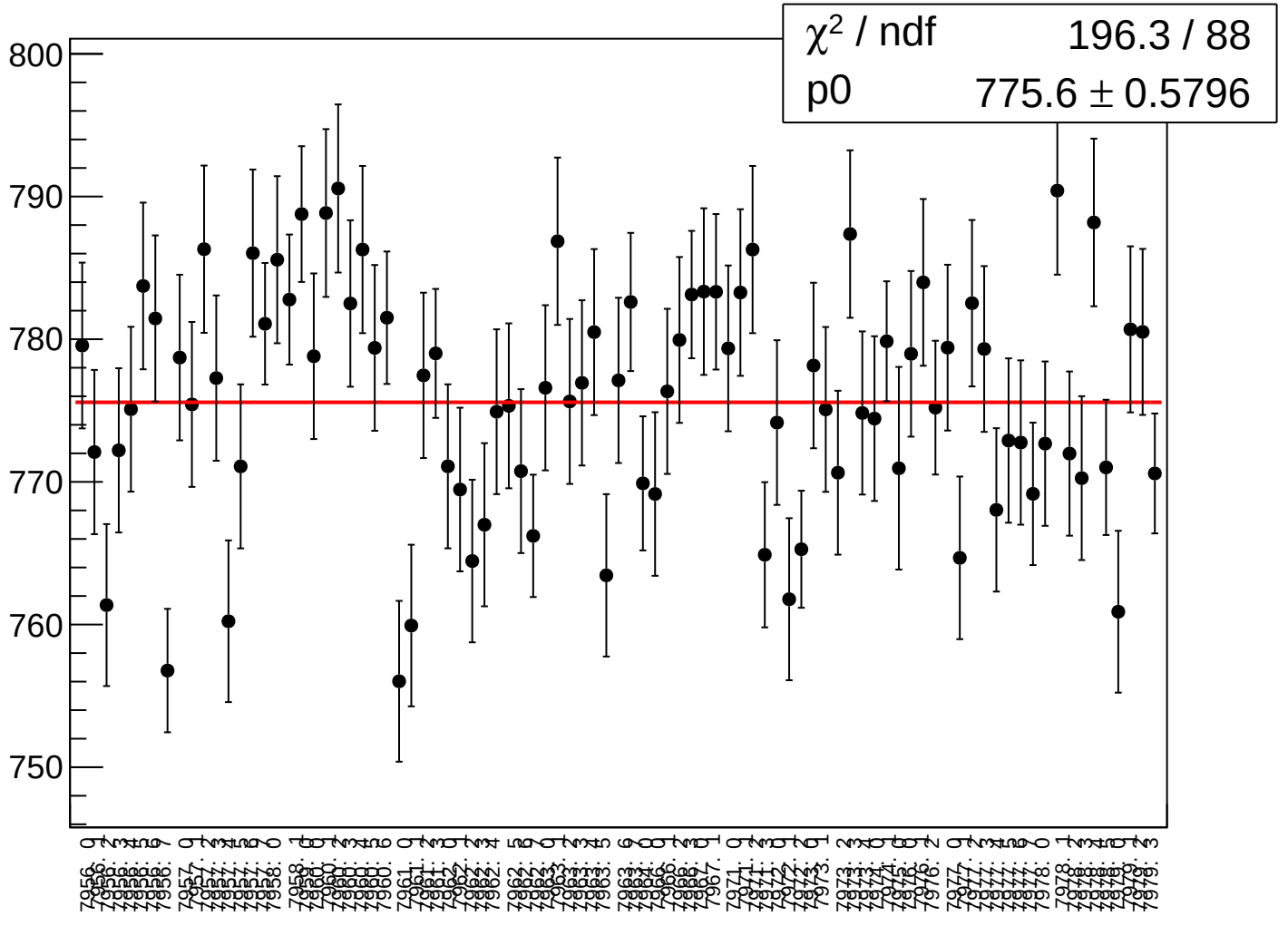

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1691 / 88
p0 929.7 ± 0.6951
1040
1020
1000
980
960
940
920
900
880
860

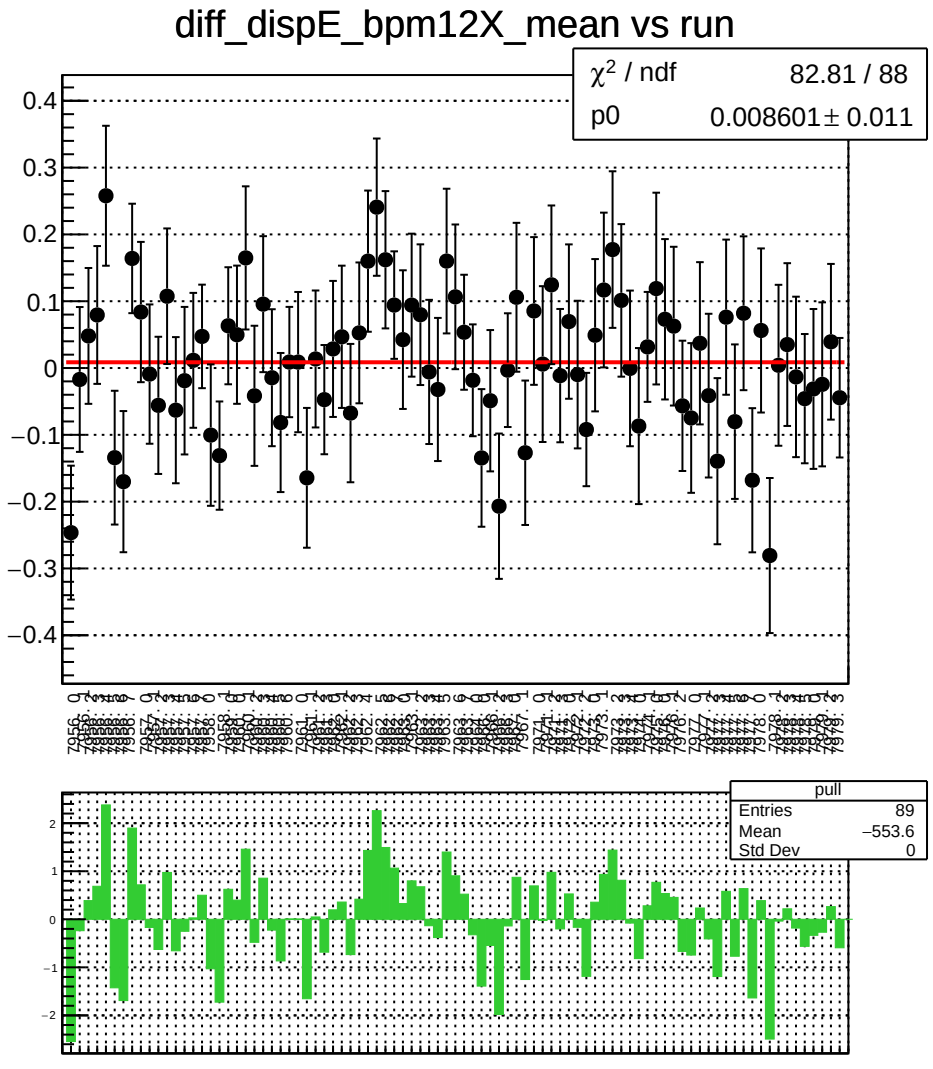

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 96.55 / 88
p0 7.539 ± 5.347
pull
Entries 89
Mean −260.1
Std Dev 0

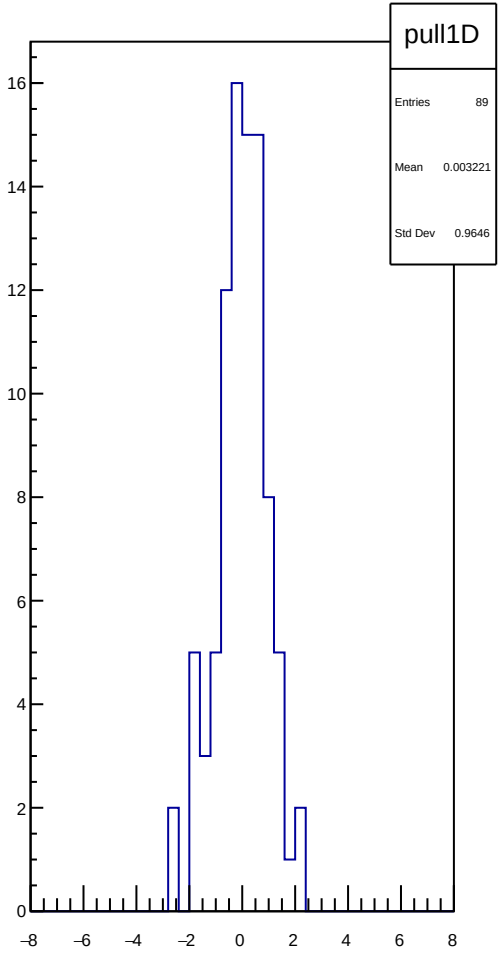

pull1D
Entries 89
Mean −0.01344
Std Dev 1.041

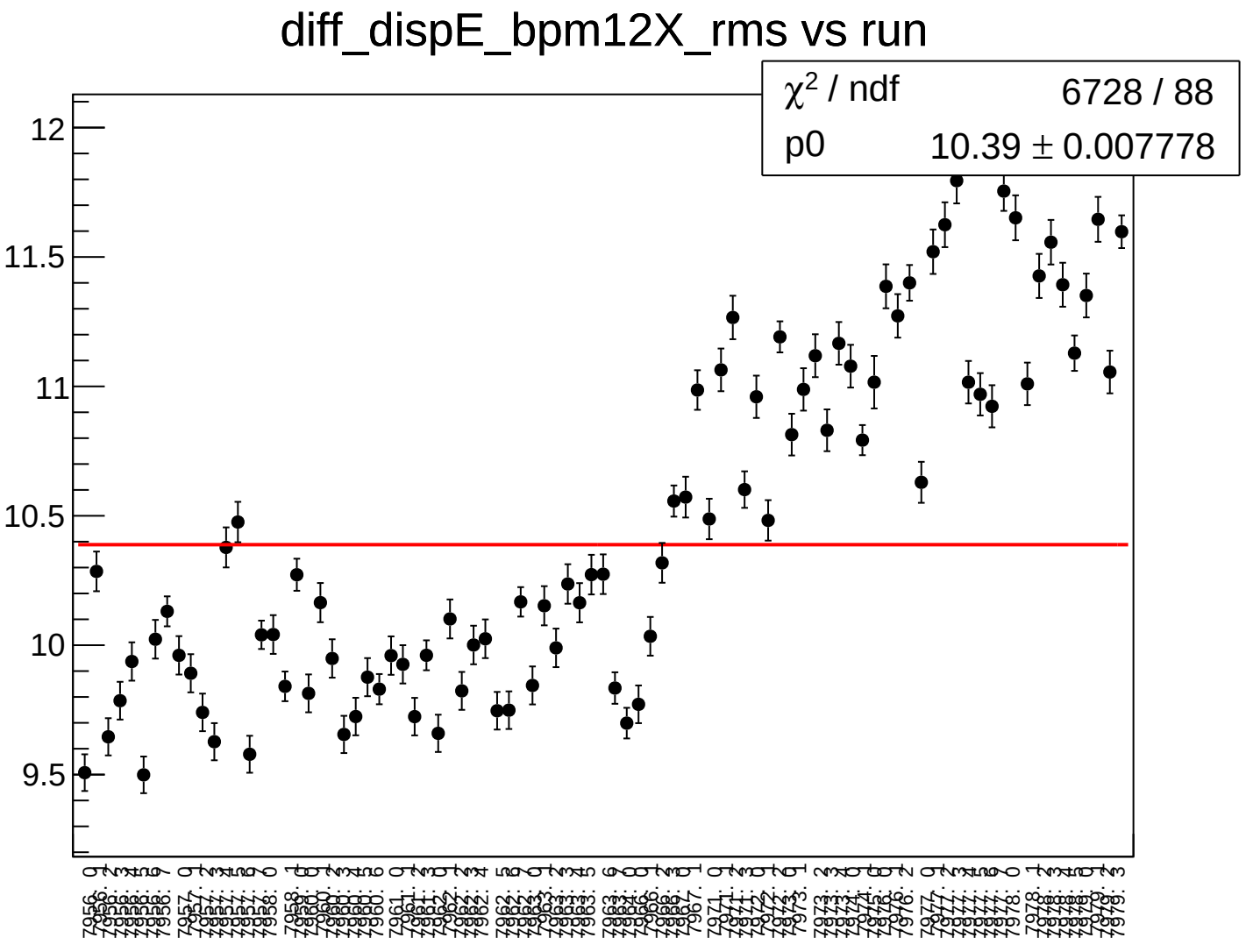

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1.328e+04 / 88
p0 5041 ± 3.781
6500
6000
5500
5000
4500
4000

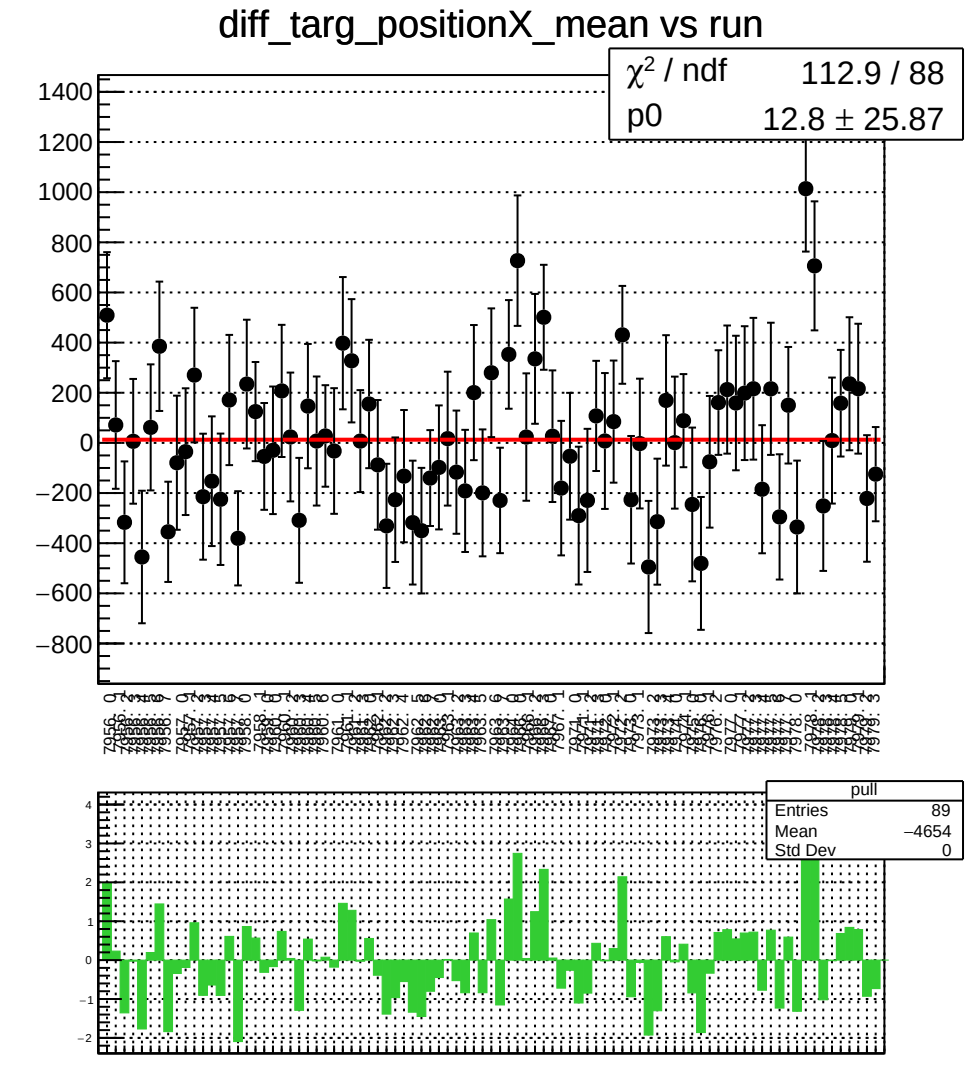

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 94.43 / 88
p0 0.3035 ± 0.8197
pull
Entries 89
Mean 133.2
Std Dev 0
pull1D
Entries 89
Mean 0.01188
Std Dev 1.03

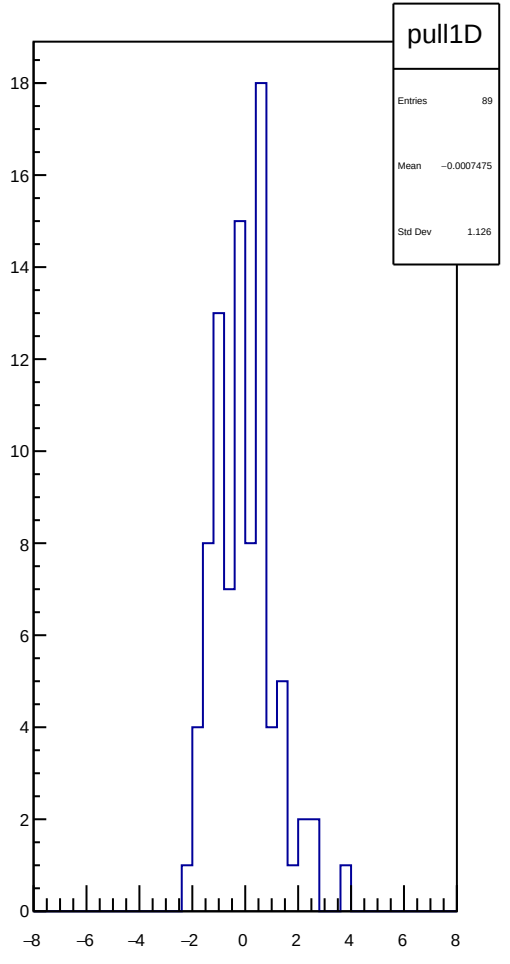

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 196.3 / 88
p0 775.6 ± 0.5796
800
790
780
770
760
750

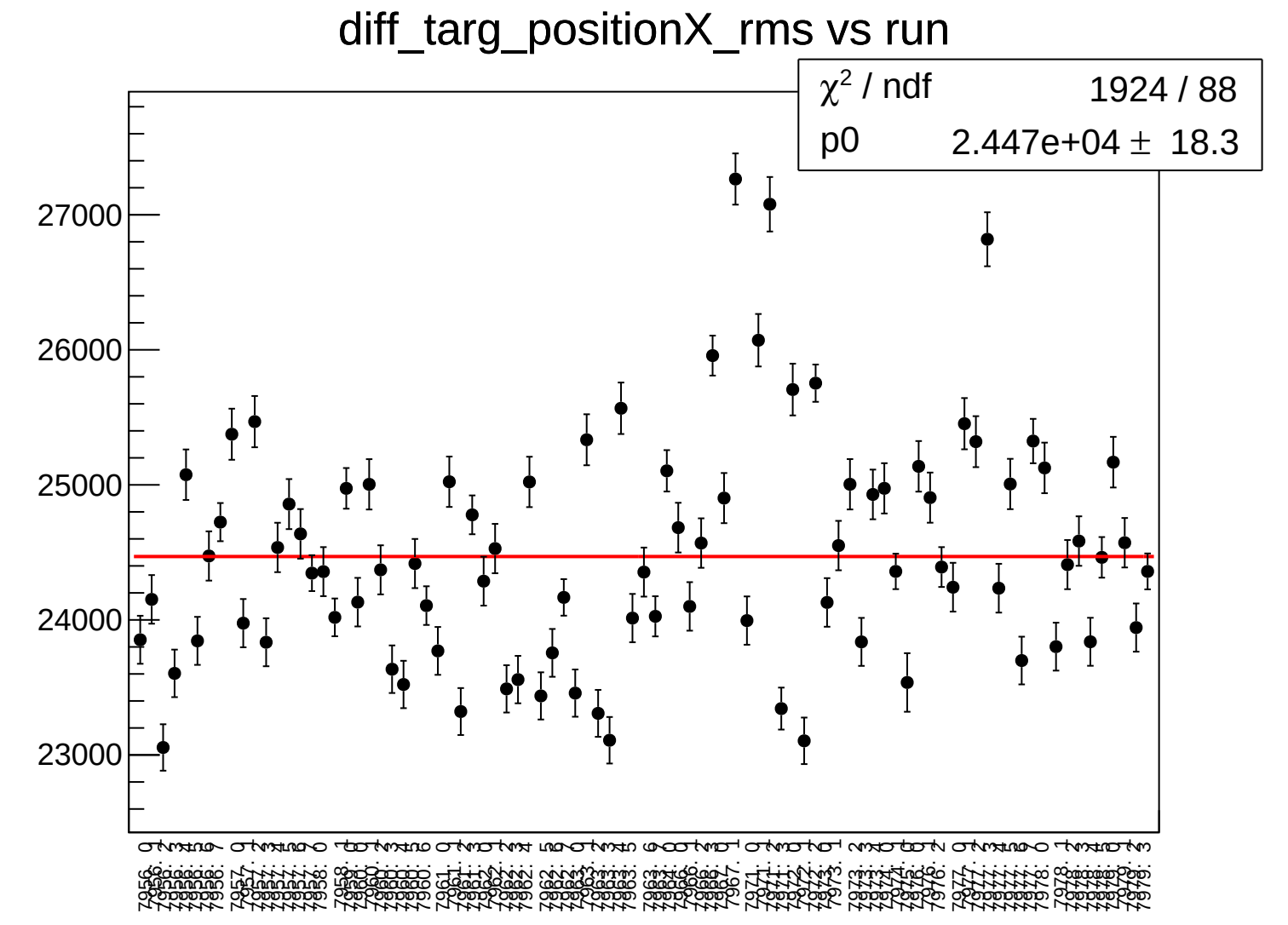

diff_dispE_bpm12X_mean vs run
χ² / ndf 82.81 / 88
p0 0.008601 ± 0.011
pull
Entries 89
Mean −553.6
Std Dev 0

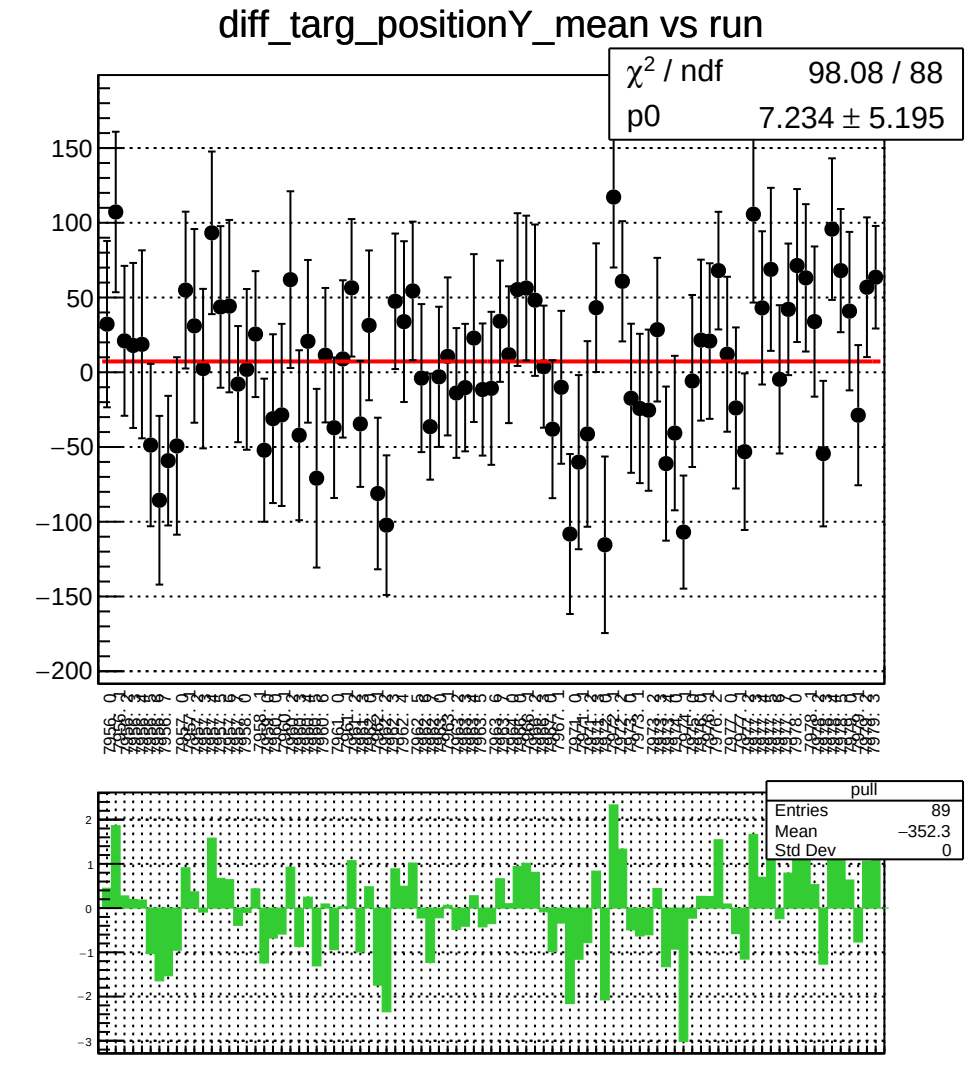

pull1D
Entries 89
Mean 0.003221
Std Dev 0.9646

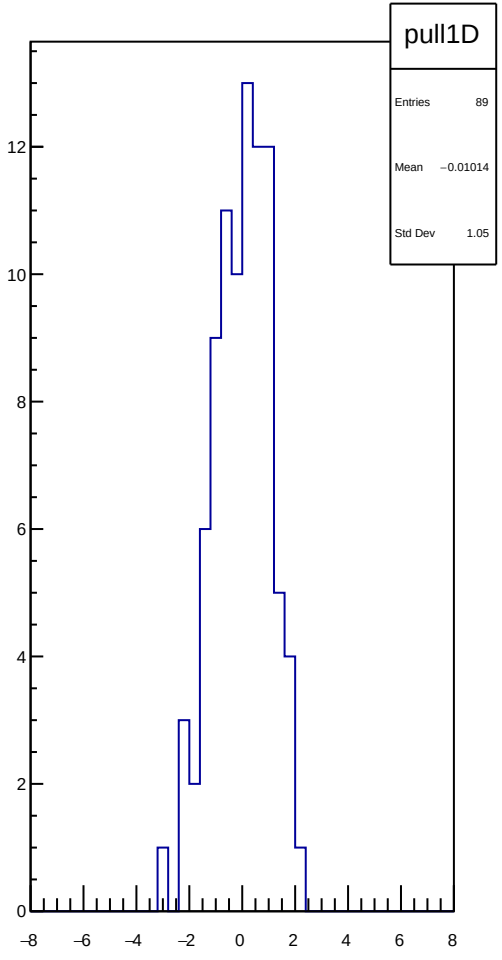

diff_dispE_bpm12X_rms vs run
χ² / ndf 6728 / 88
p0 10.39 ± 0.007778
12
11.5
11
10.5
10
9.5

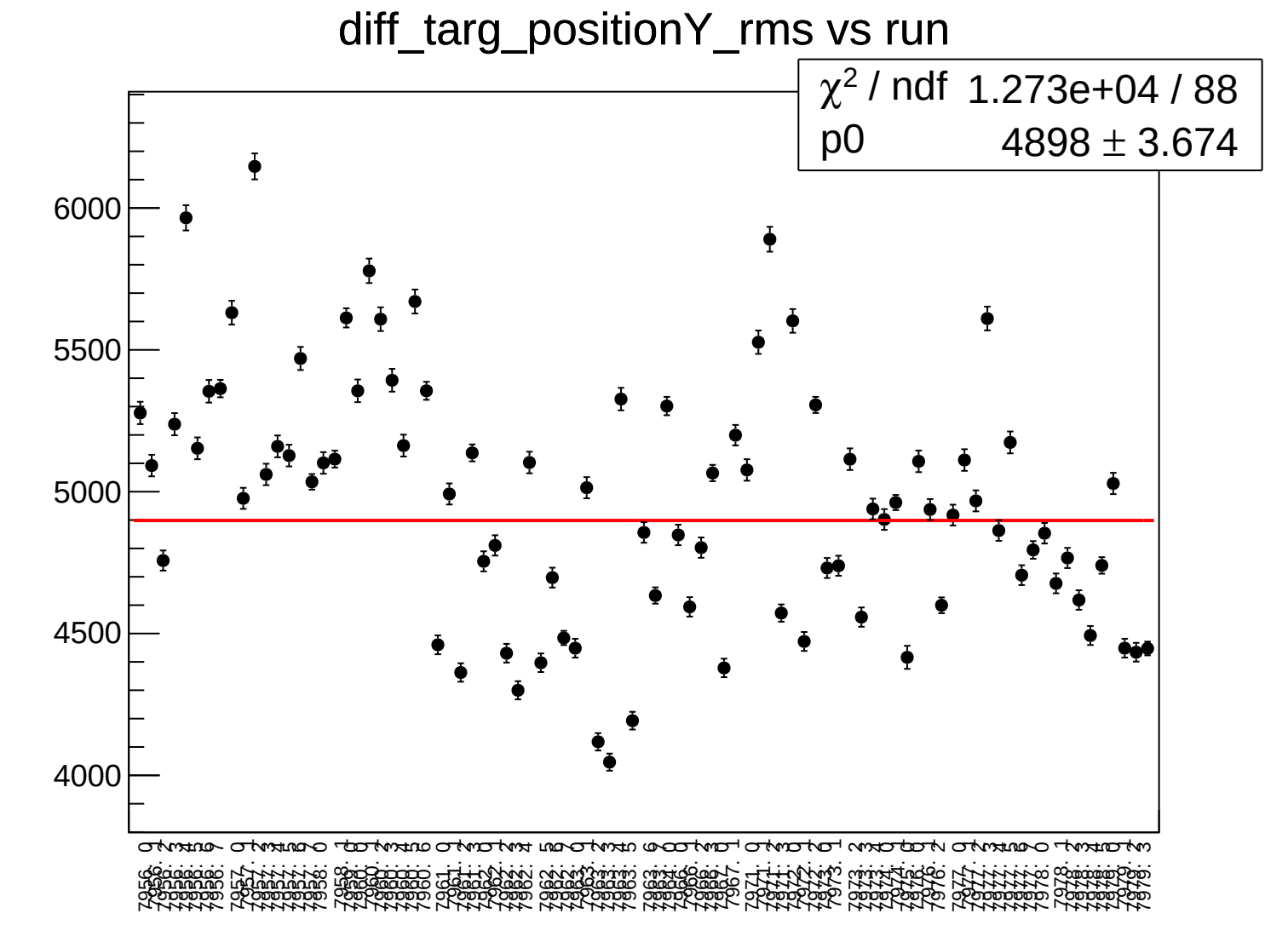

diff_targ_positionX_mean vs run
χ² / ndf 112.9 / 88
p0 12.8 ± 25.87
pull
Entries 89
Mean −4654
Std Dev 0

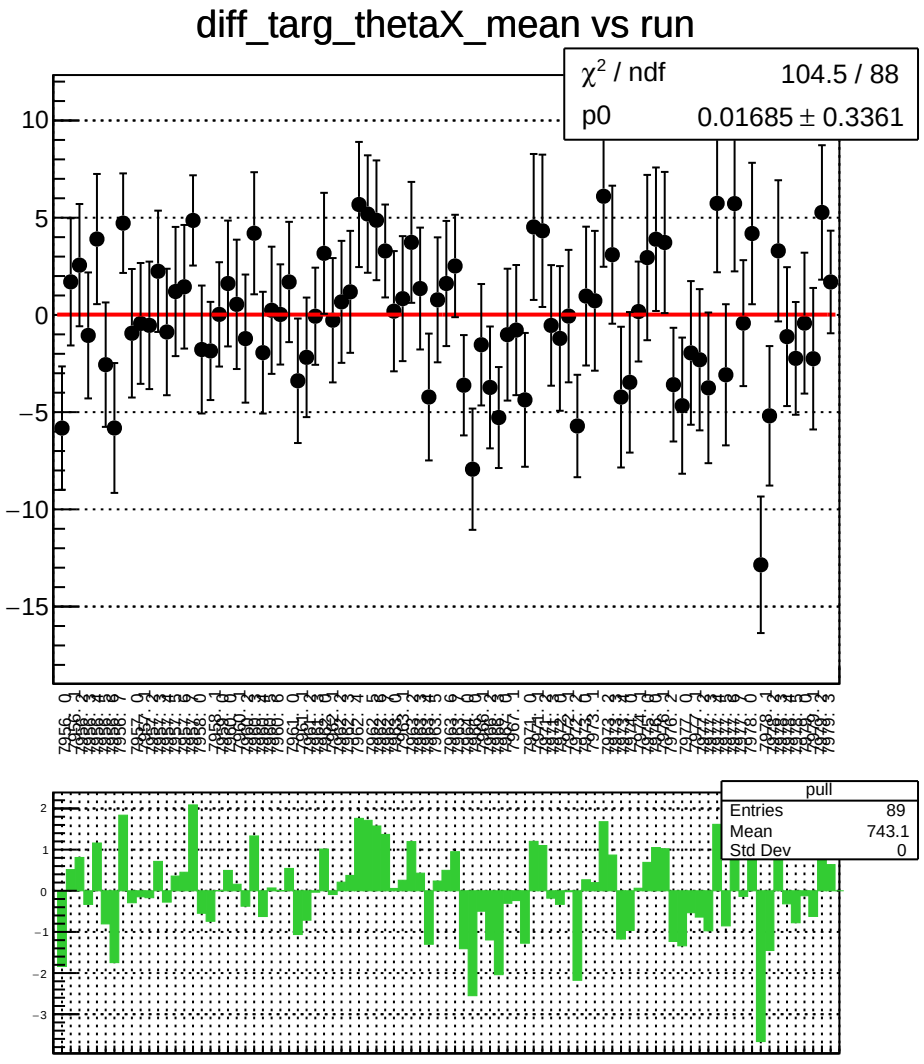

pull1D
Entries 89
Mean −0.0007475
Std Dev 1.126

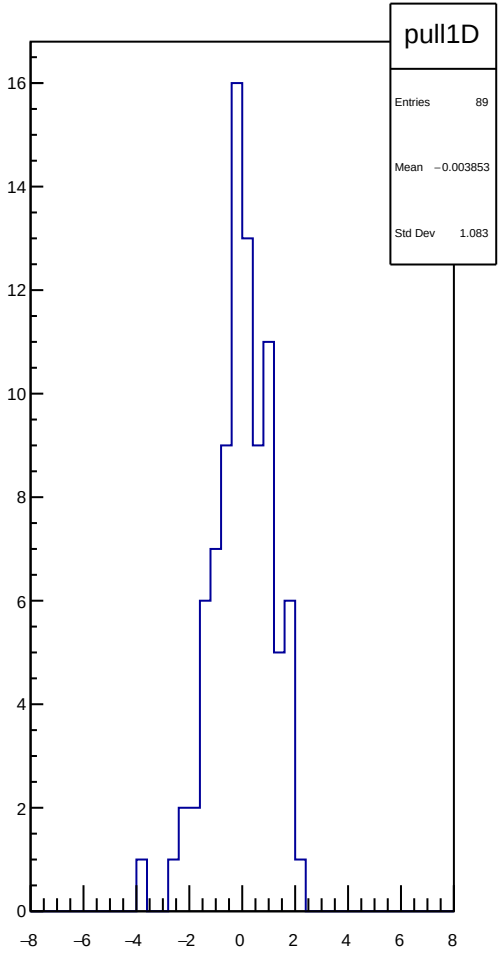

diff_targ_positionX_rms vs run
χ² / ndf 1924 / 88
p0 2.447e+04 ± 18.3
27000
26000
25000
24000
23000

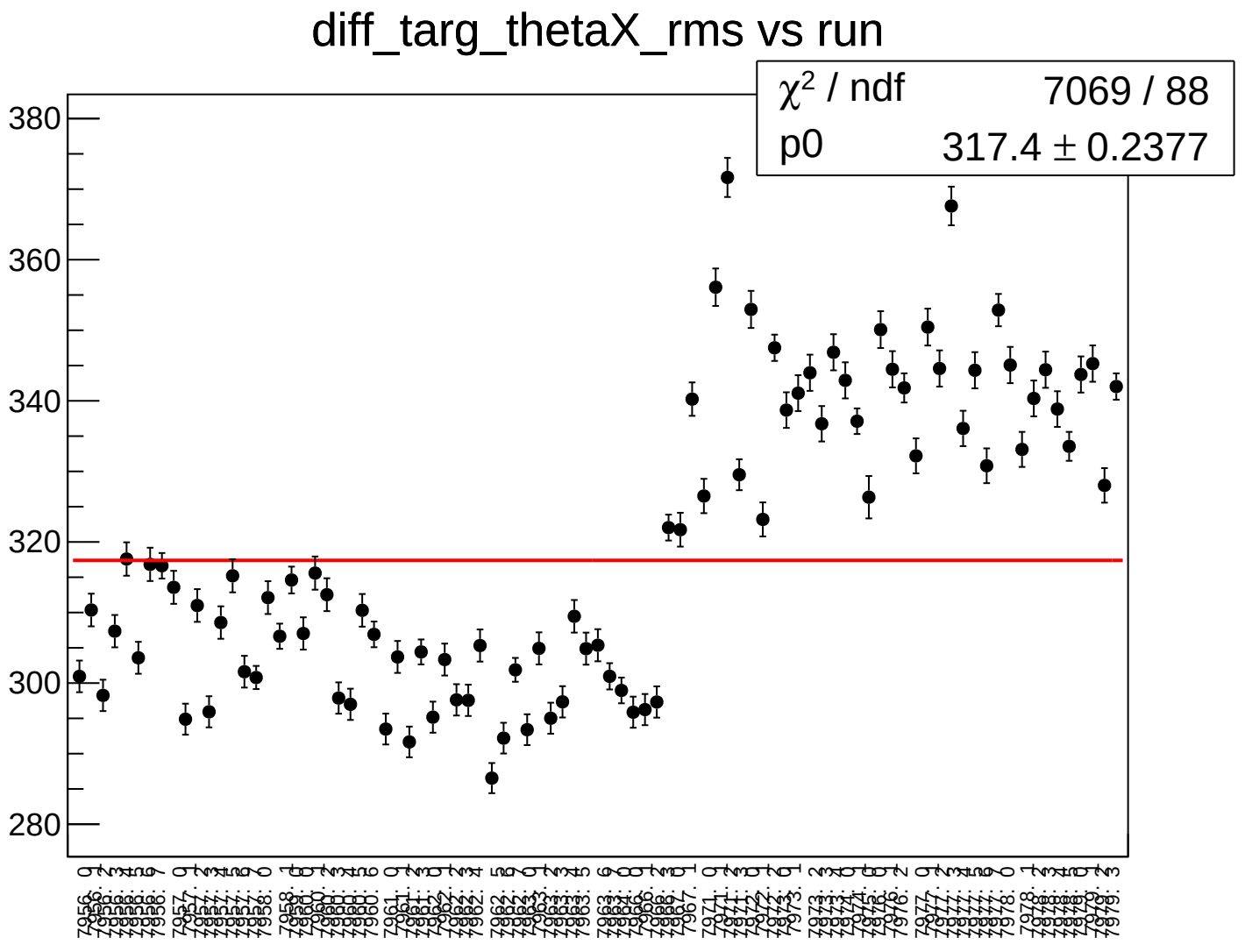

diff_targ_positionY_mean vs run
χ² / ndf 98.08 / 88
p0 7.234 ± 5.195
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −352.3
Std Dev 0
2
1
0
−1
−2
−3

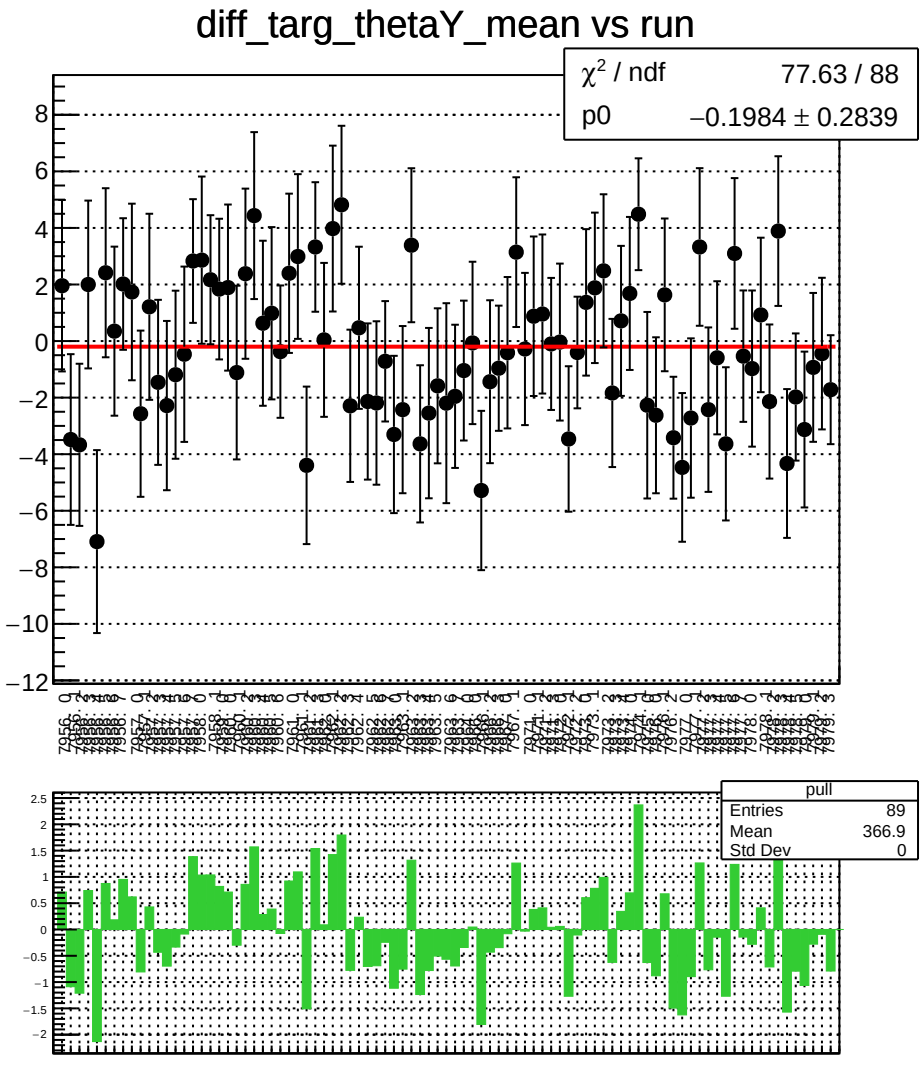

pull1D
Entries 89
Mean −0.01014
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

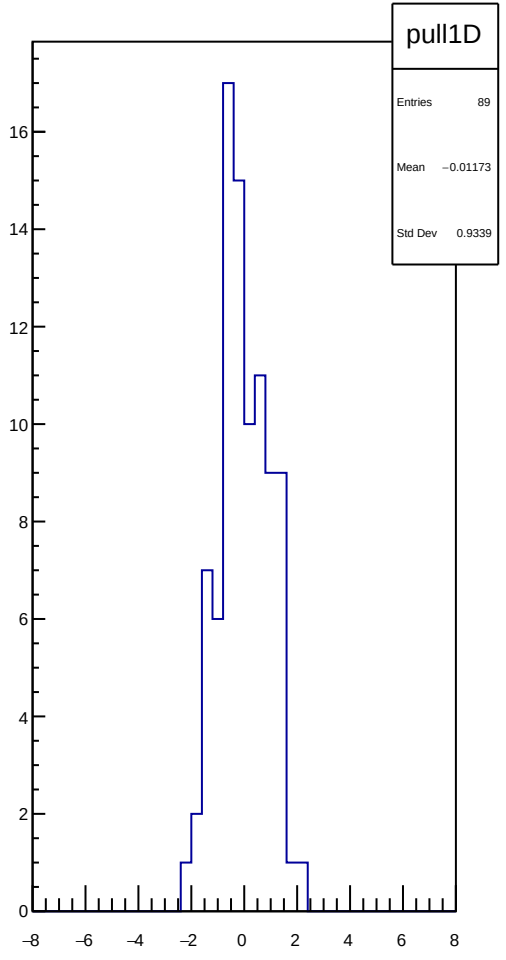

diff_targ_positionY_rms vs run
χ² / ndf 1.273e+04 / 88
p0 4898 ± 3.674
6000
5500
5000
4500
4000

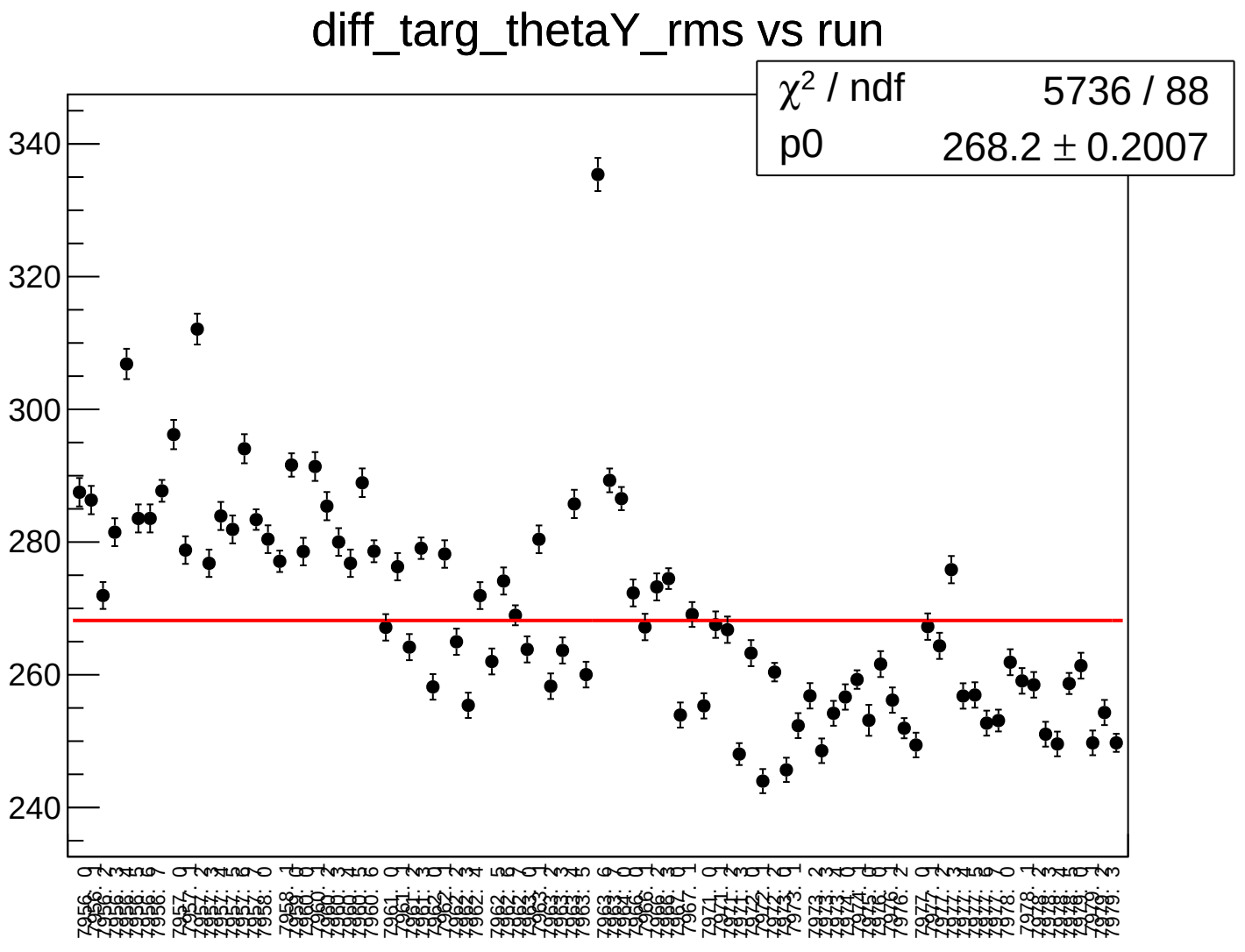

diff_targ_thetaX_mean vs run
χ² / ndf 104.5 / 88
p0 0.01685 ± 0.3361
pull
Entries 89
Mean 743.1
Std Dev 0

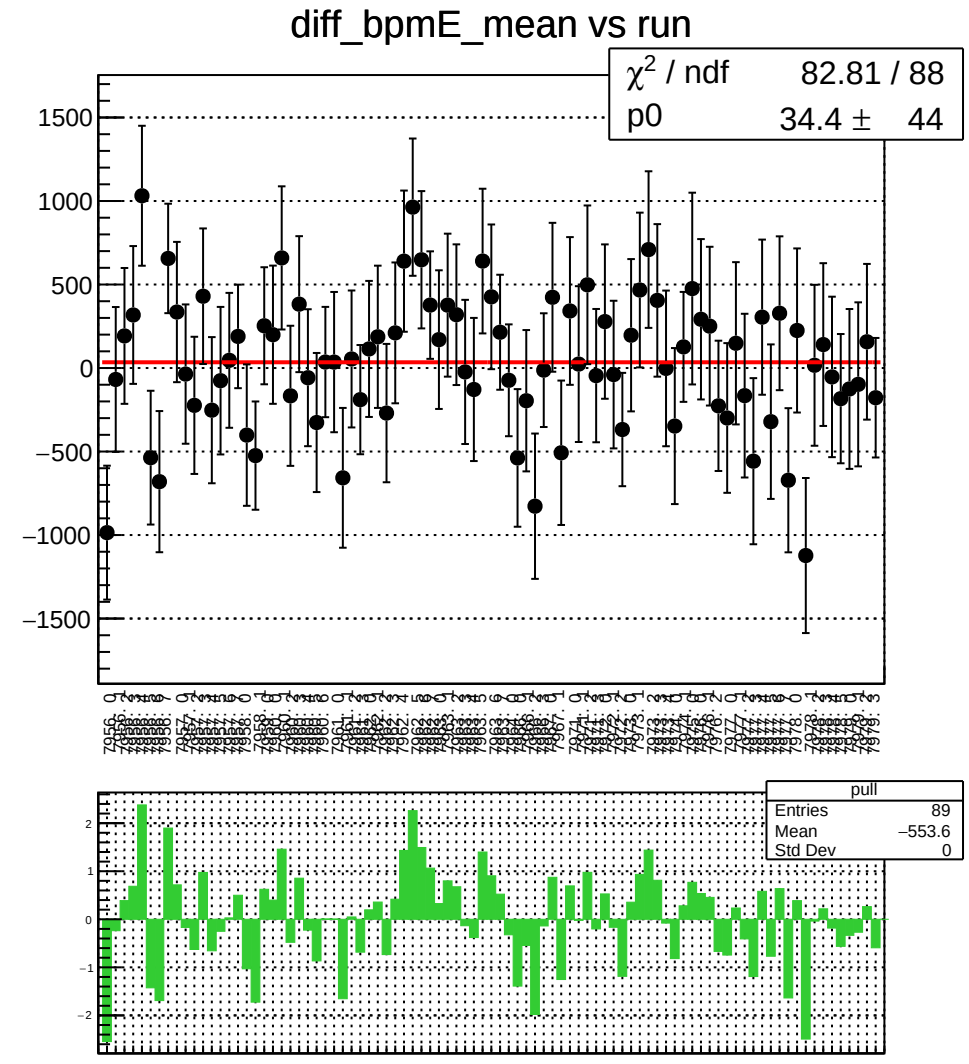

pull1D
Entries 89
Mean −0.003853
Std Dev 1.083

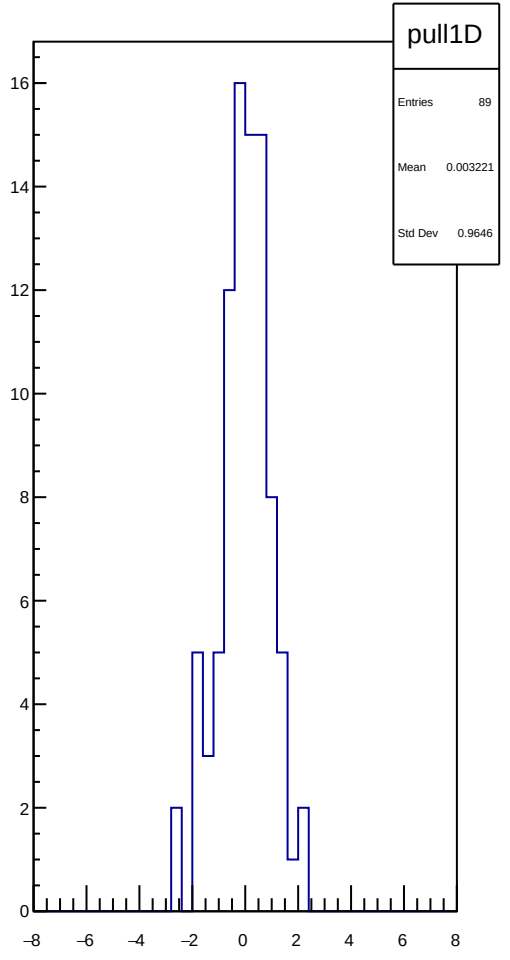

diff_targ_thetaX_rms vs run
χ² / ndf 7069 / 88
p0 317.4 ± 0.2377
380
360
340
320
300
280


diff_targ_thetaY_mean vs run
χ² / ndf 77.63 / 88
p0 −0.1984 ± 0.2839
pull
Entries 89
Mean 366.9
Std Dev 0

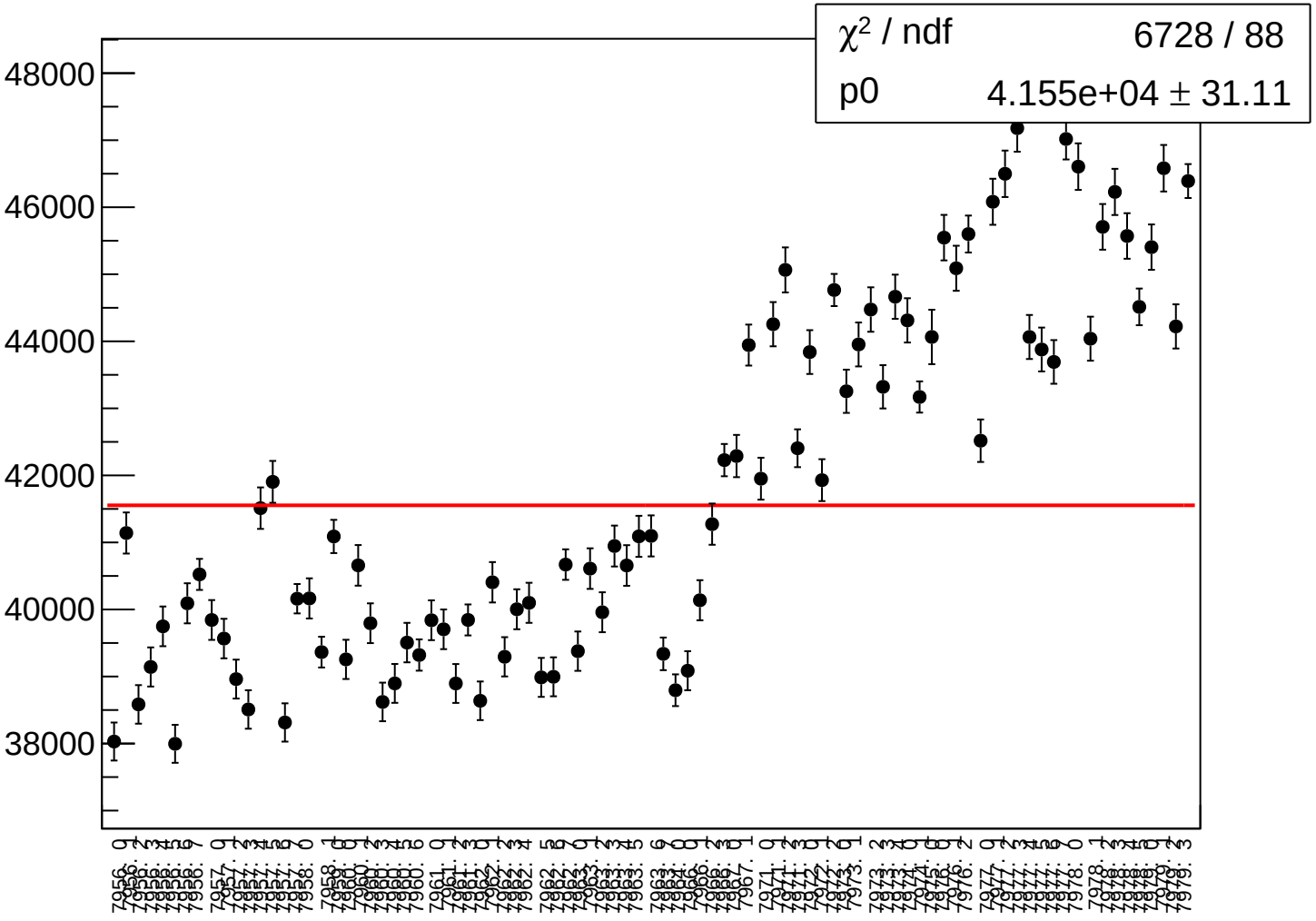

pull1D
Entries 89
Mean −0.01173
Std Dev 0.9339

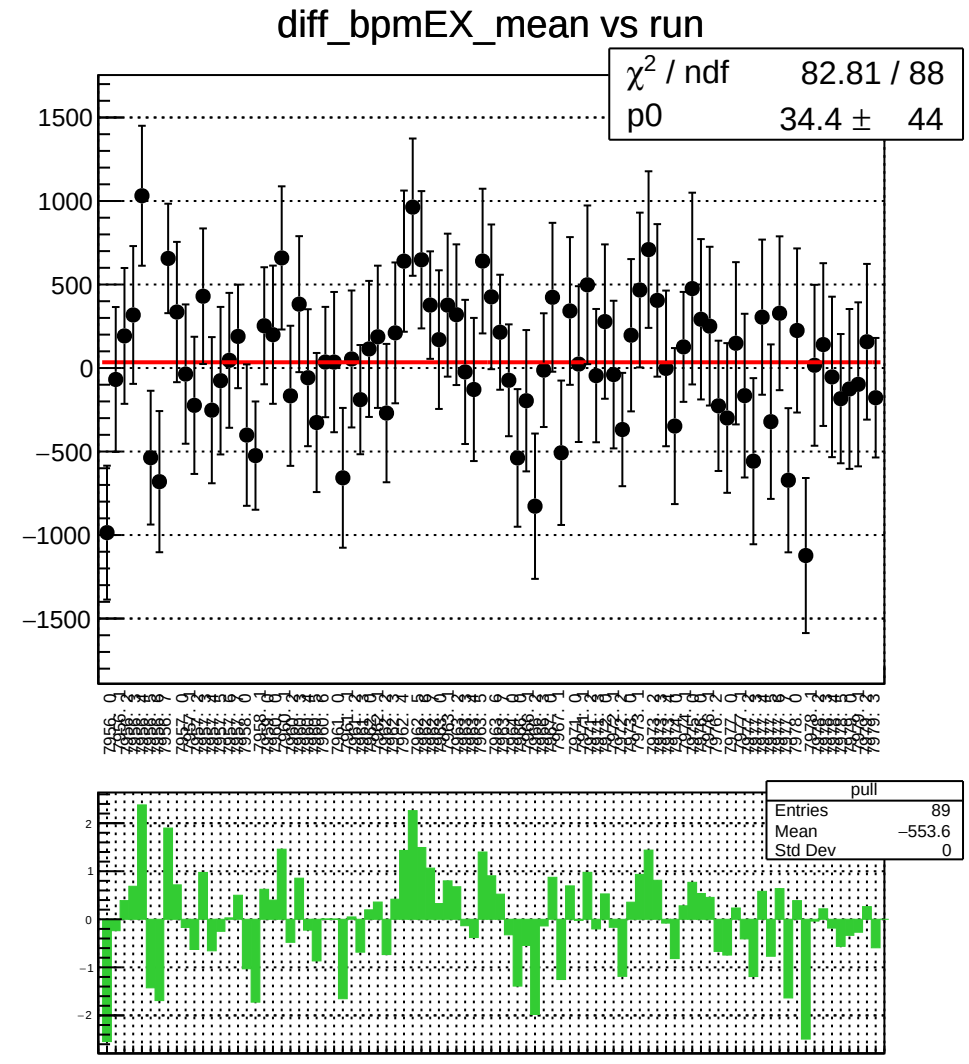

diff_targ_thetaY_rms vs run
χ² / ndf 5736 / 88
p0 268.2 ± 0.2007
340
320
300
280
260
240

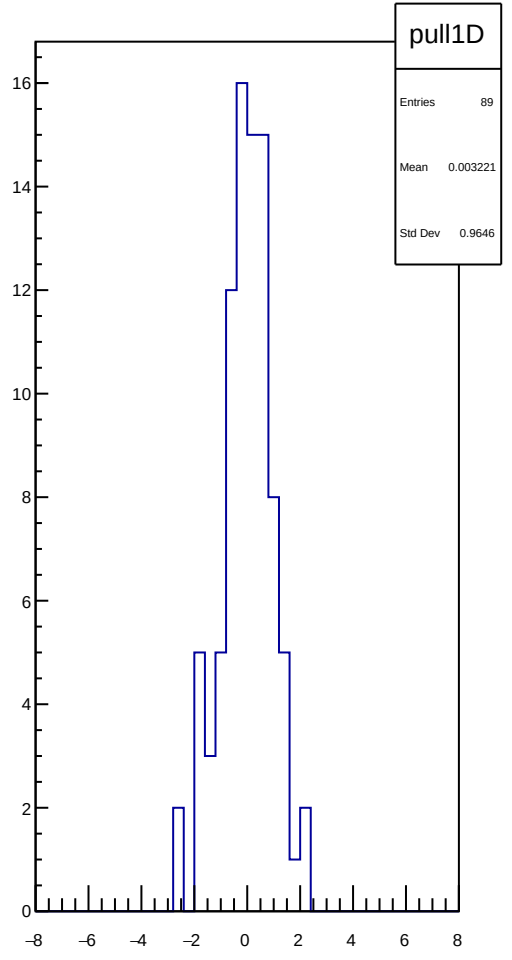

diff_bpmE_mean vs run
$\chi^2$ / ndf 82.81 / 88
p0 34.4 ± 44
pull
Entries 89
Mean −553.6
Std Dev 0

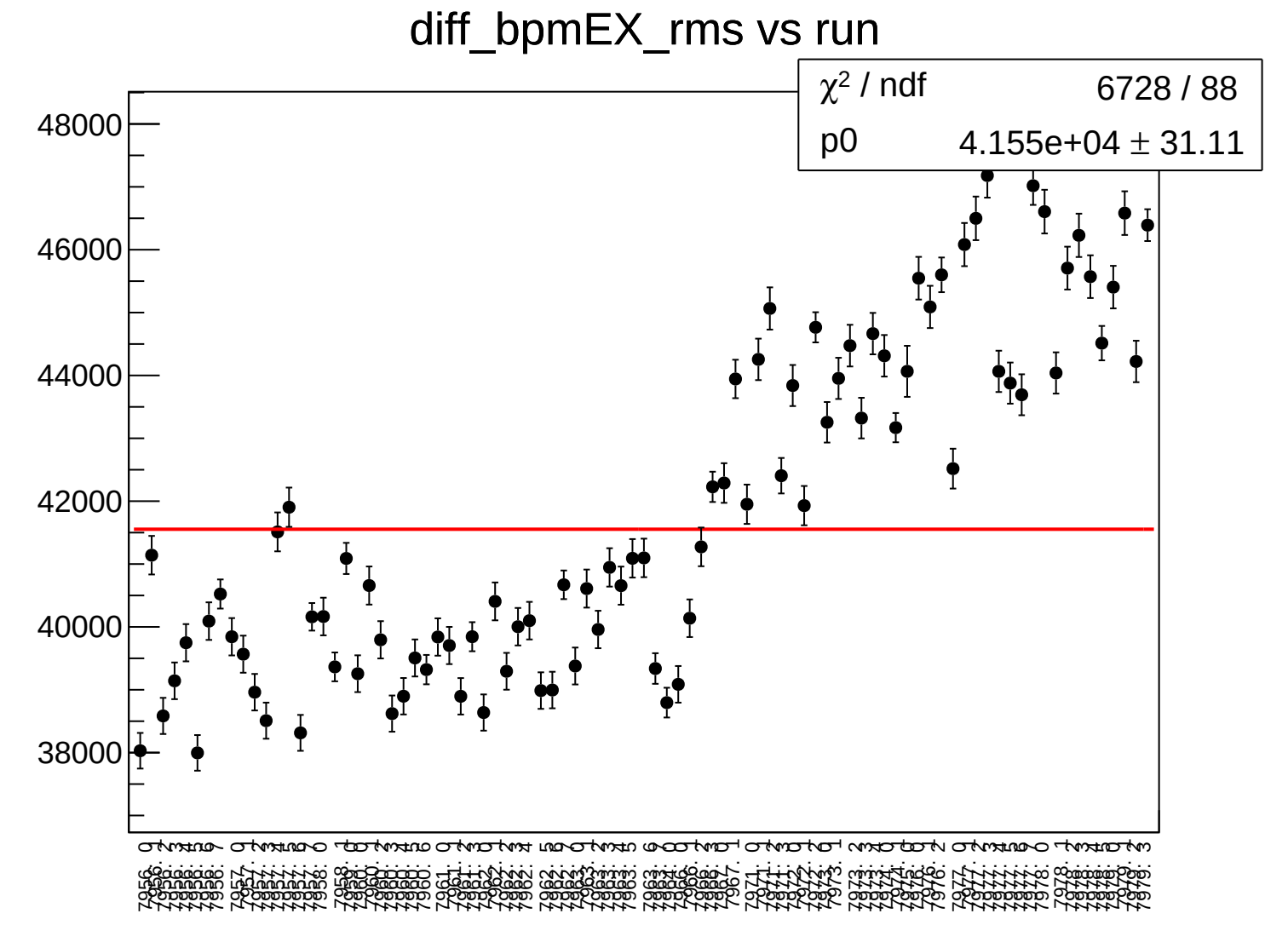

pull1D
Entries 89
Mean 0.003221
Std Dev 0.9646

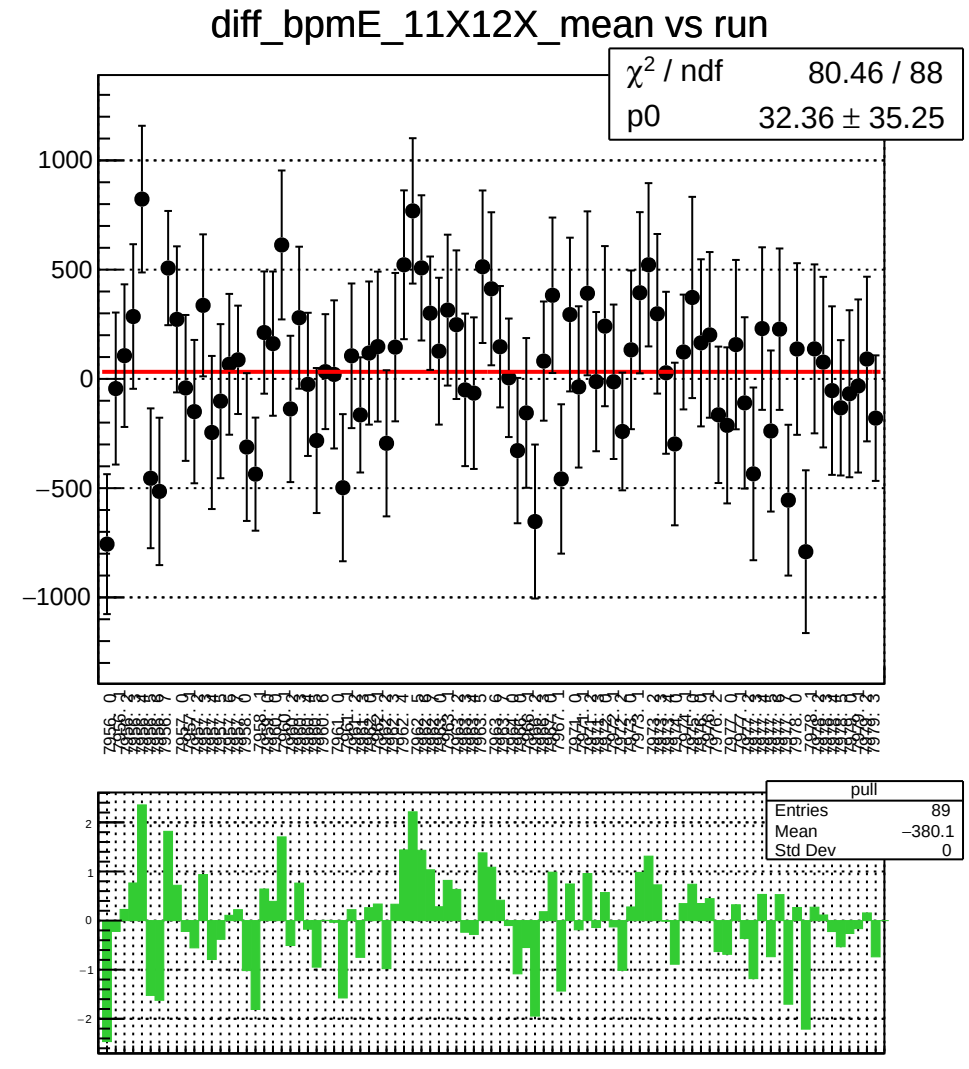
# diff_bpmE_rms vs run

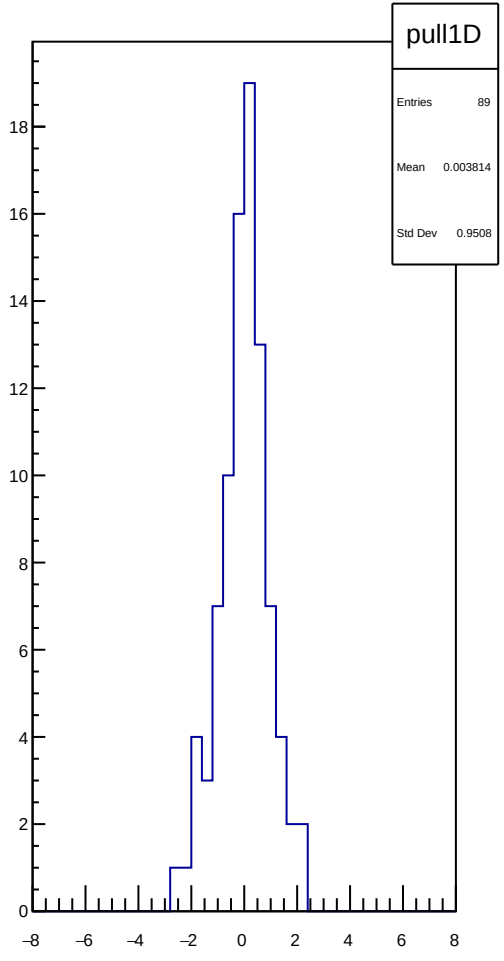


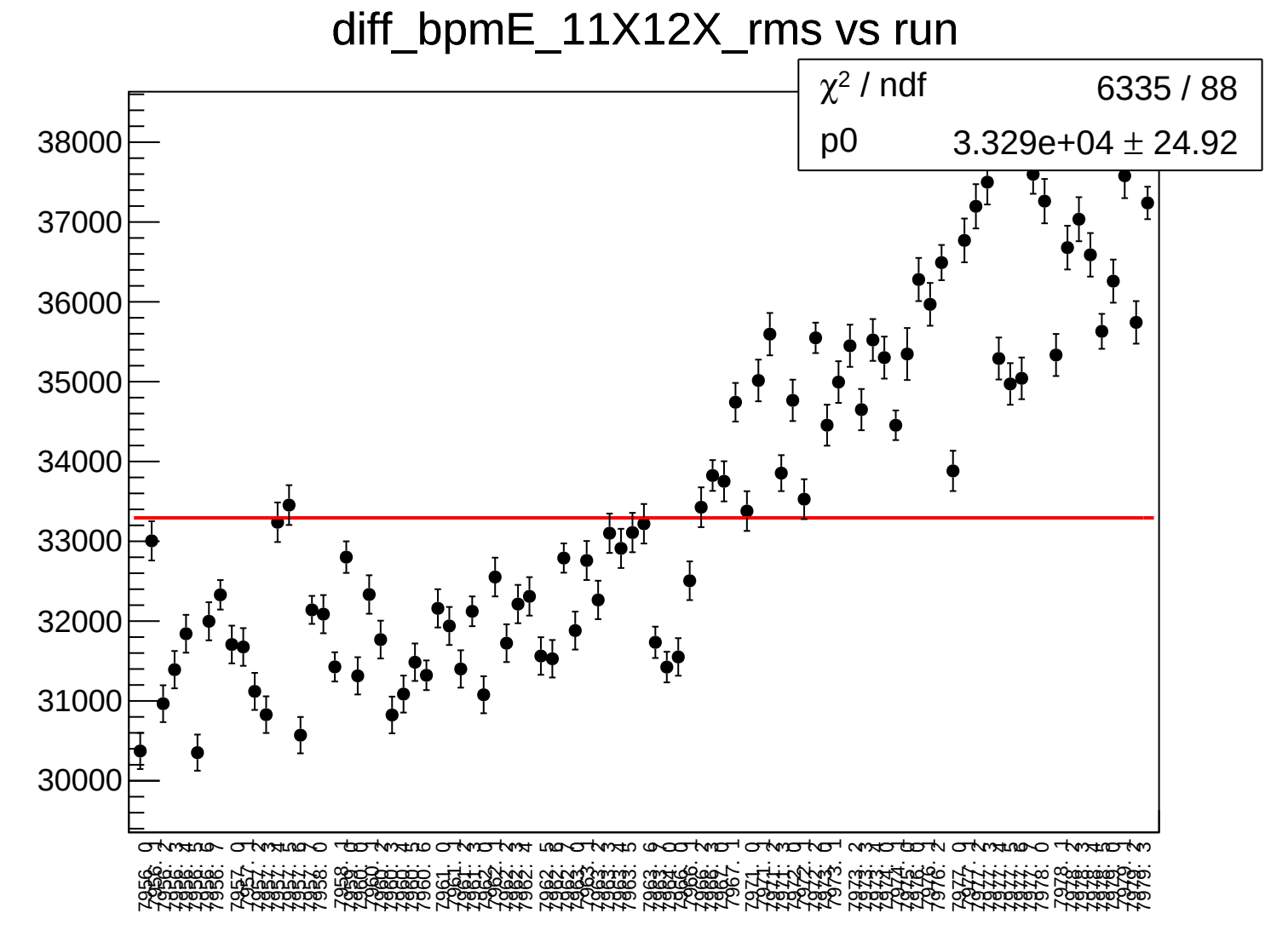

diff_bpmEX_mean vs run
$\chi^2$ / ndf 82.81 / 88
p0 34.4 ± 44
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −553.6
Std Dev 0
2
1
0
−1
−2

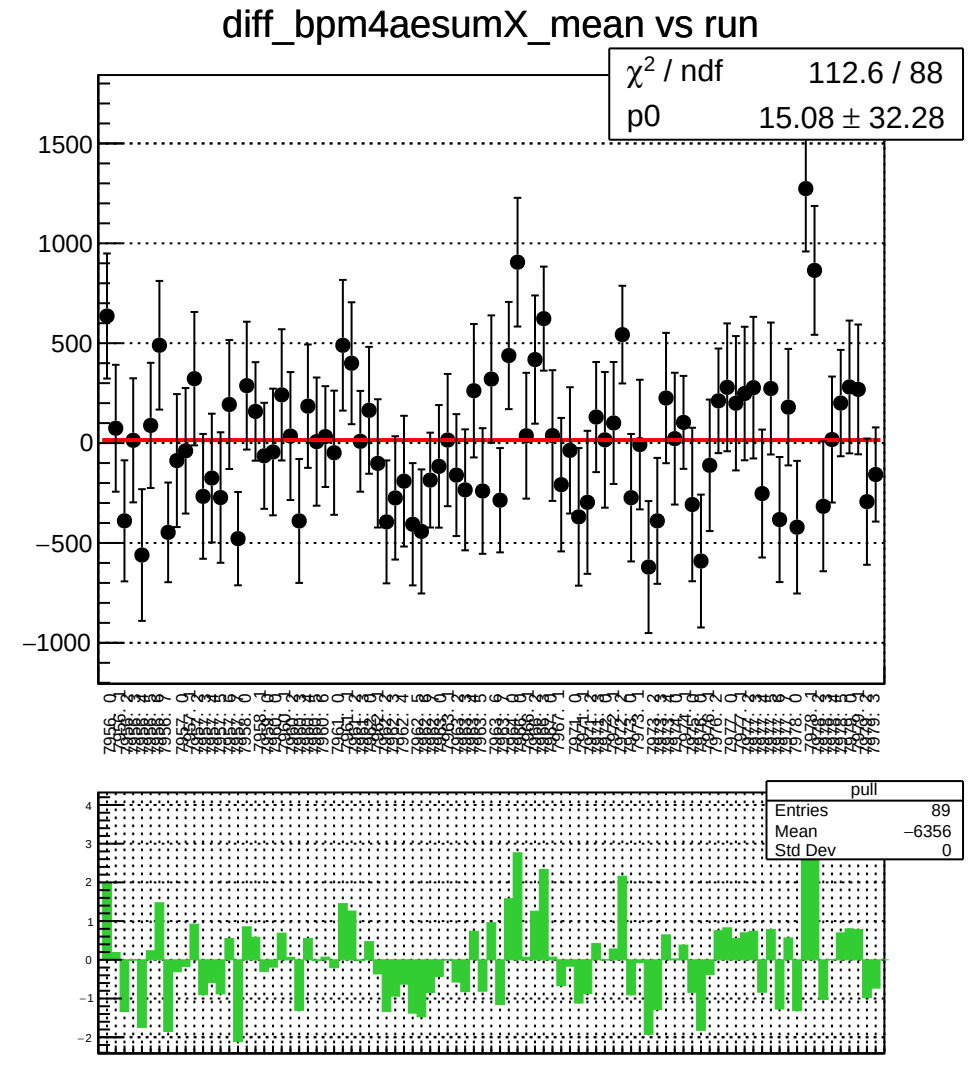

pull1D
Entries 89
Mean 0.003221
Std Dev 0.9646
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

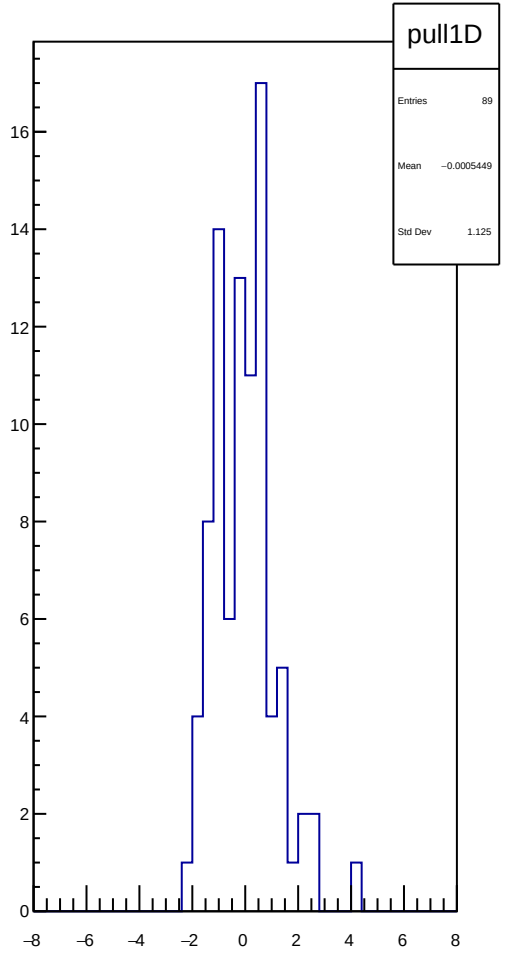

diff_bpmEX_rms vs run
χ² / ndf 6728 / 88
p0 4.155e+04 ± 31.11
48000
46000
44000
42000
40000
38000

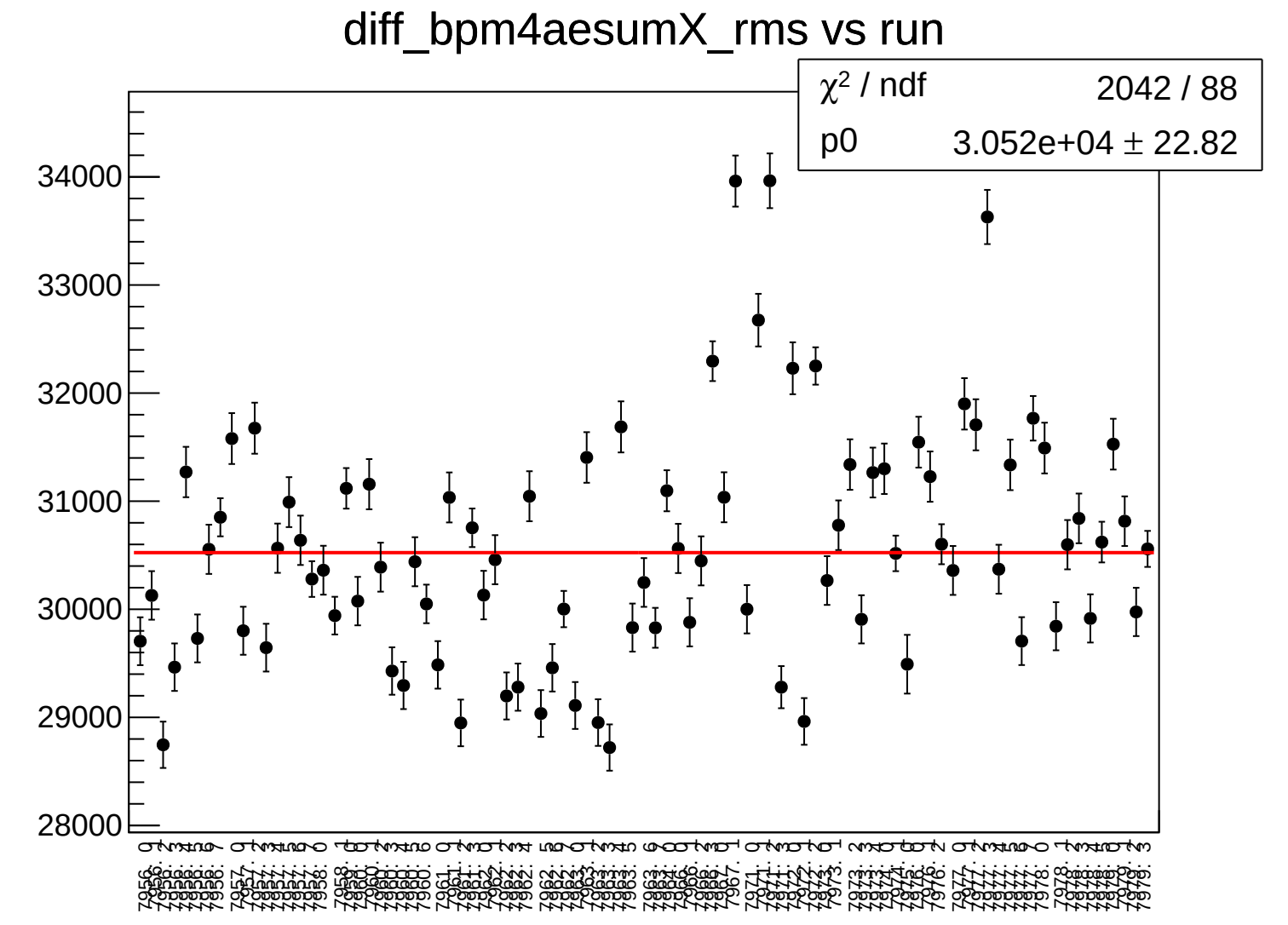

diff_bpmE_11X12X_mean vs run
χ² / ndf 80.46 / 88
p0 32.36 ± 35.25
1000
500
0
−500
−1000
pull
Entries 89
Mean −380.1
Std Dev 0
2
1
0
−1
−2

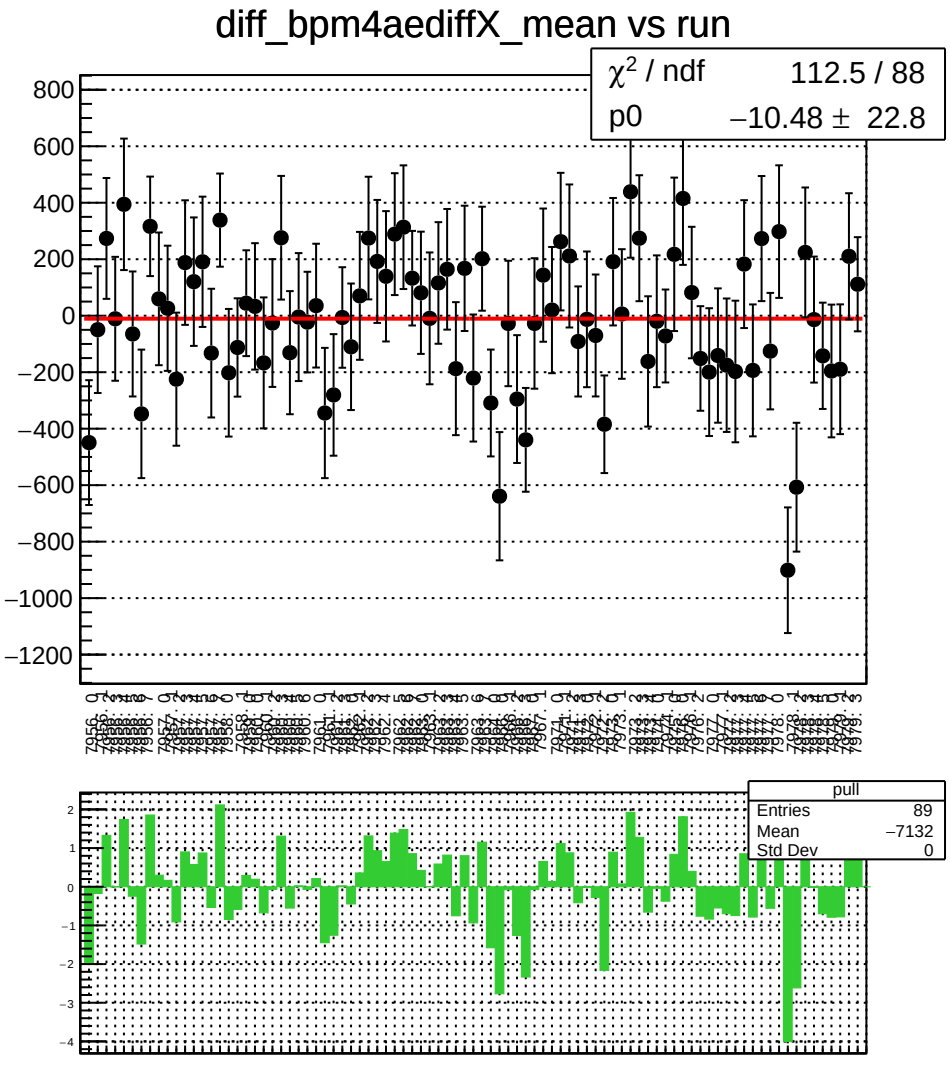

pull1D
Entries 89
Mean 0.003814
Std Dev 0.9508
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

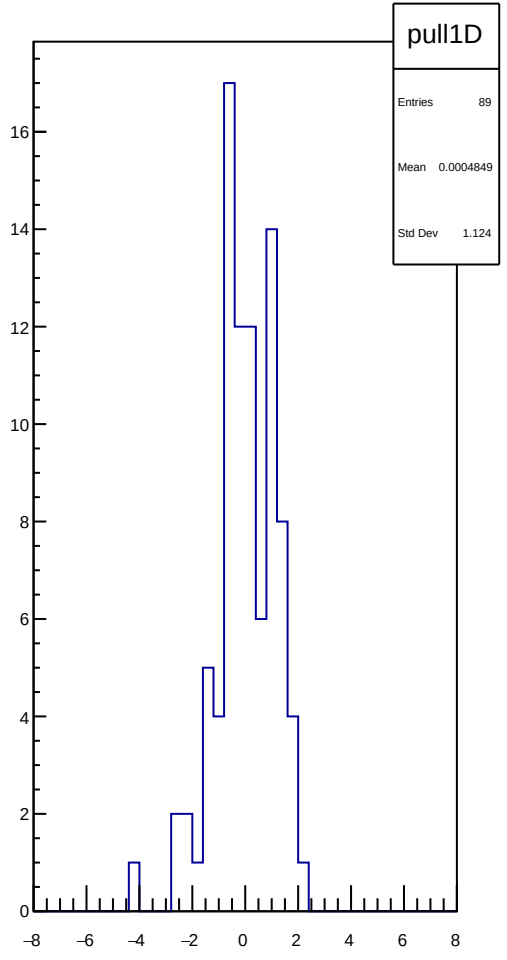

diff_bpmE_11X12X_rms vs run
χ² / ndf 6335 / 88
p0 3.329e+04 ± 24.92
38000
37000
36000
35000
34000
33000
32000
31000
30000

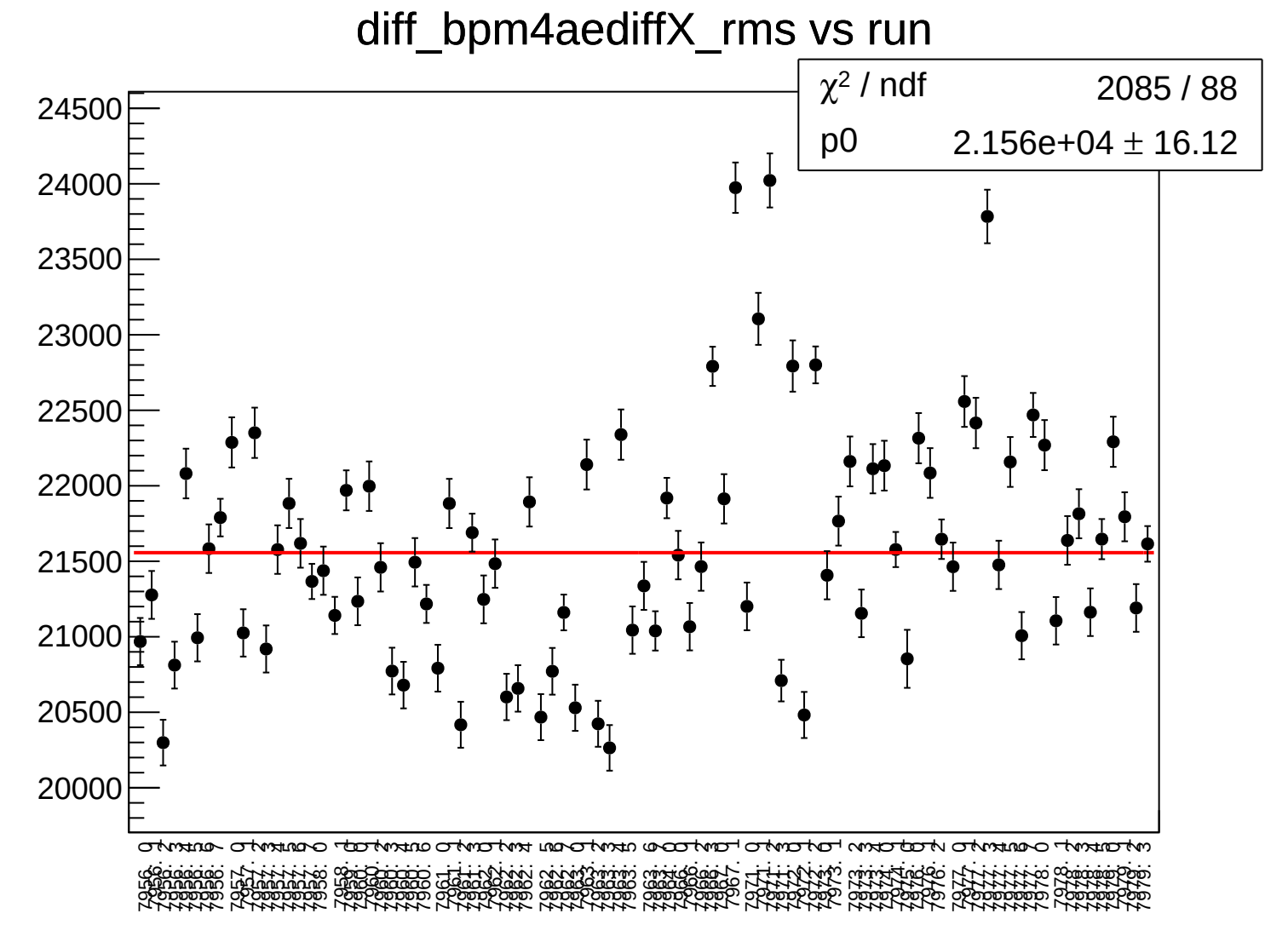

diff_bpm4aesumX_mean vs run
χ² / ndf 112.6 / 88
p0 15.08 ± 32.28
pull
Entries 89
Mean −6356
Std Dev 0

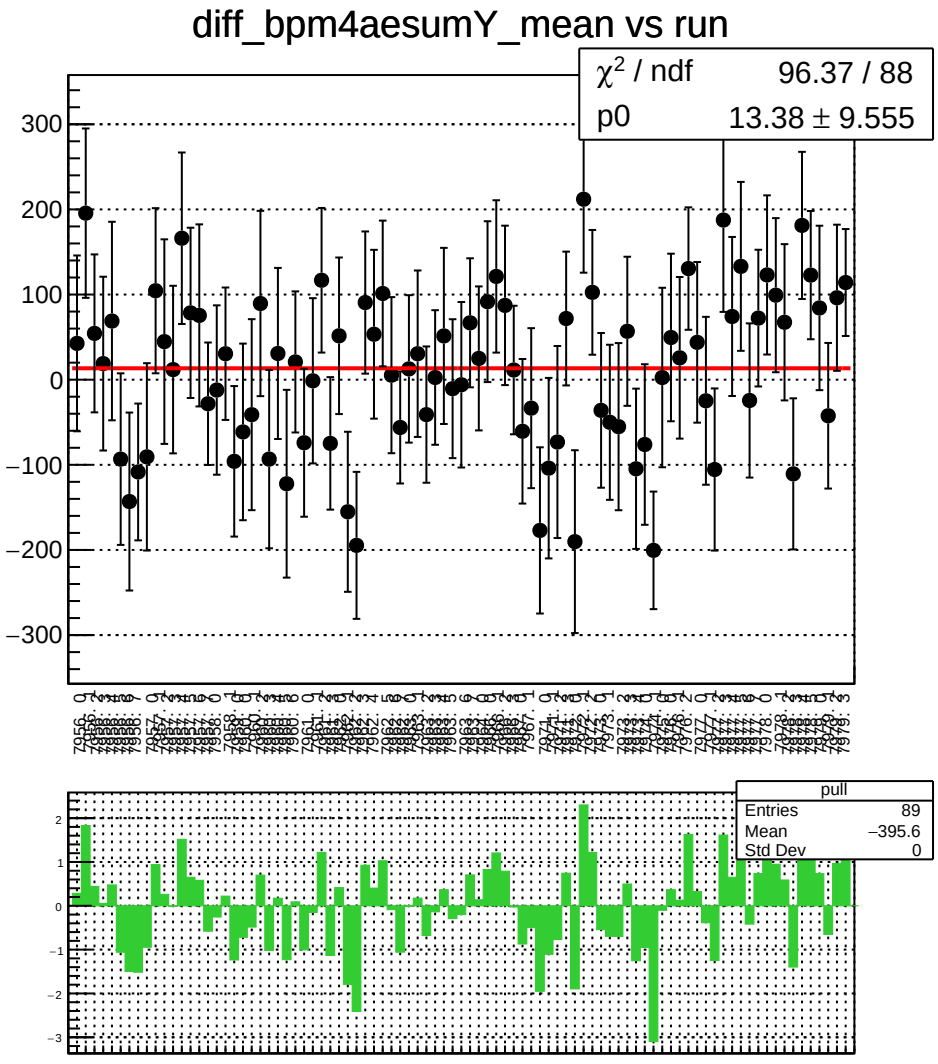

pull1D
Entries 89
Mean −0.0005449
Std Dev 1.125

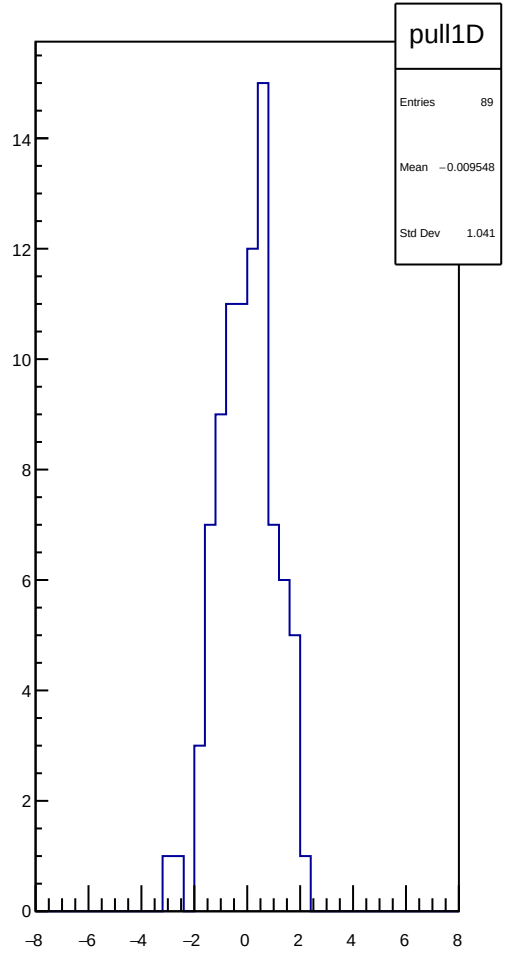

diff_bpm4aesumX_rms vs run
χ² / ndf 2042 / 88
p0 3.052e+04 ± 22.82
34000
33000
32000
31000
30000
29000
28000

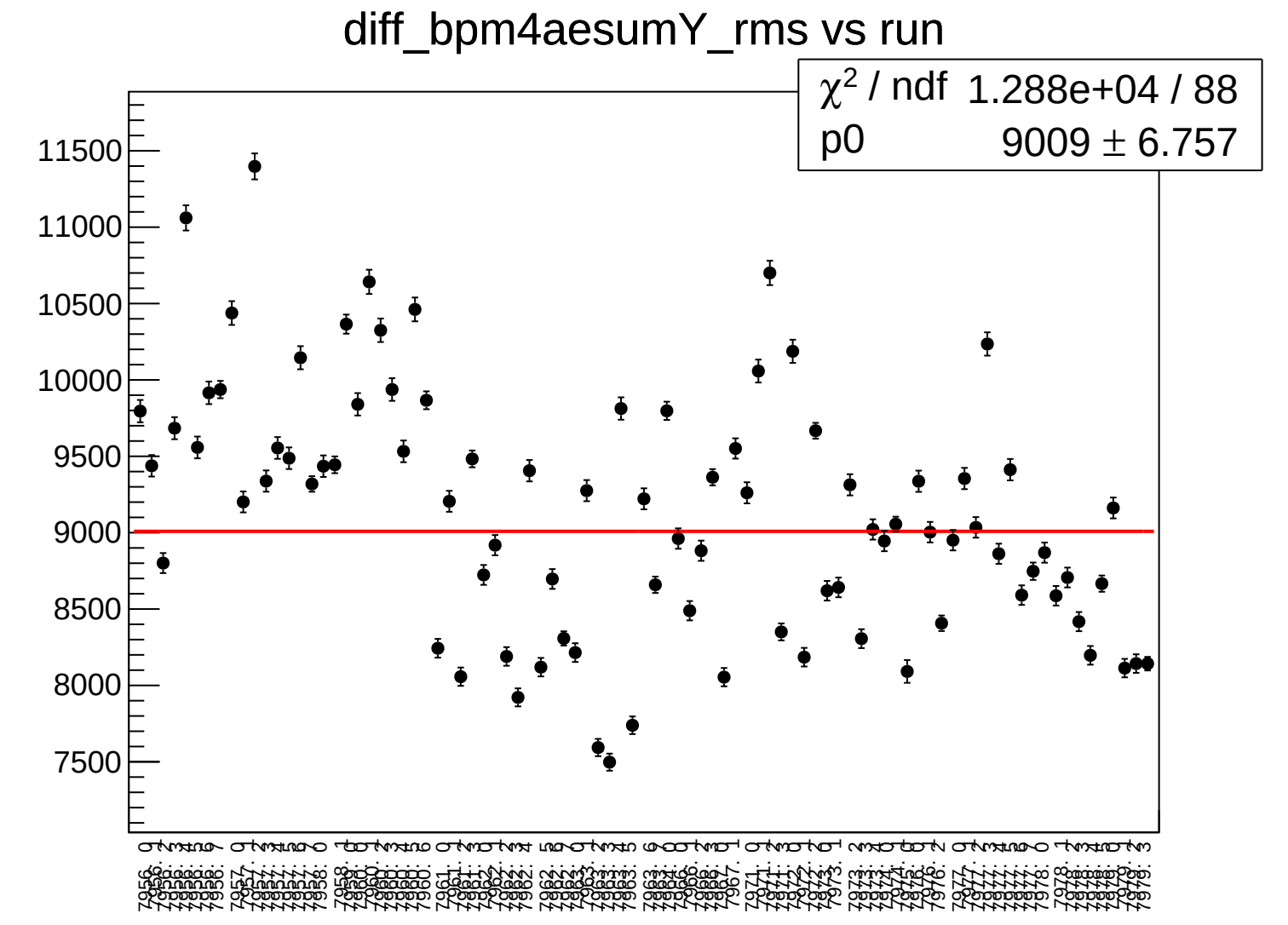

diff_bpm4aediffX_mean vs run
χ² / ndf 112.5 / 88
p0 −10.48 ± 22.8
pull
Entries 89
Mean −7132
Std Dev 0

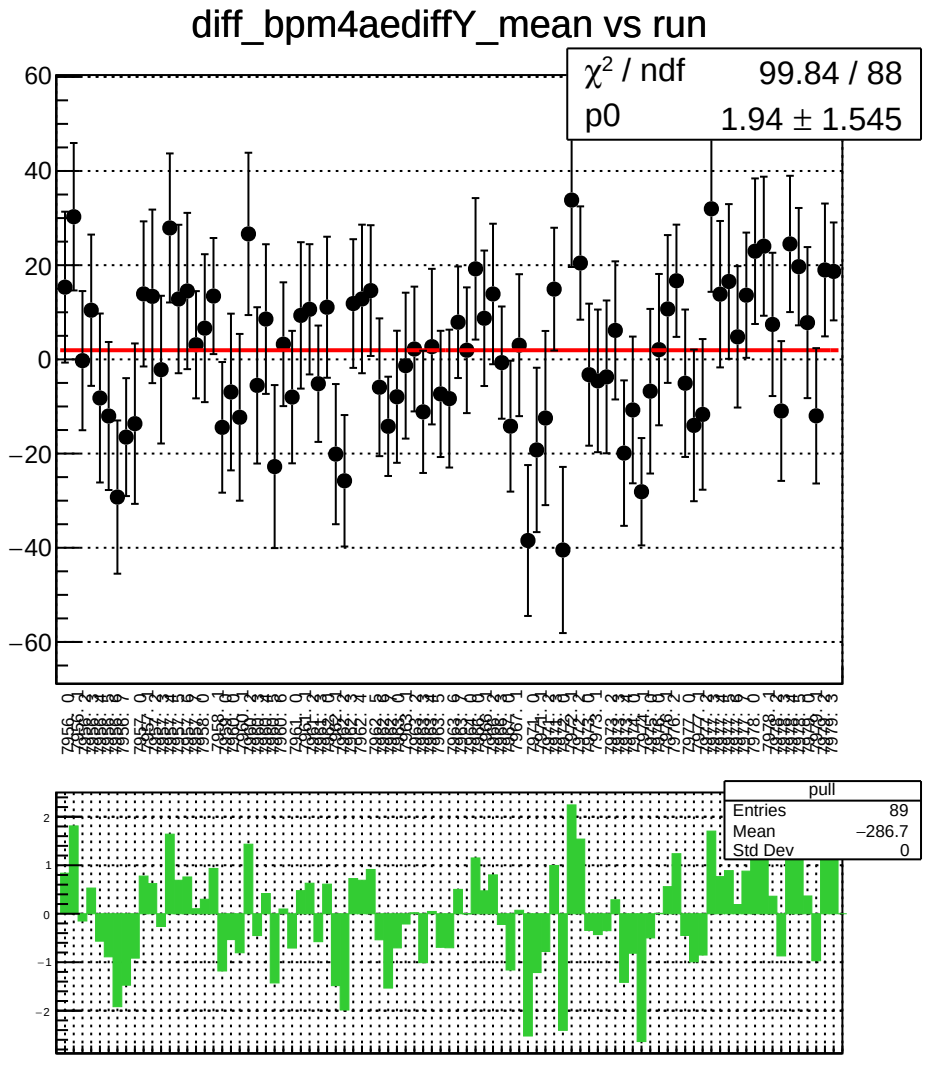

pull1D
Entries 89
Mean 0.0004849
Std Dev 1.124

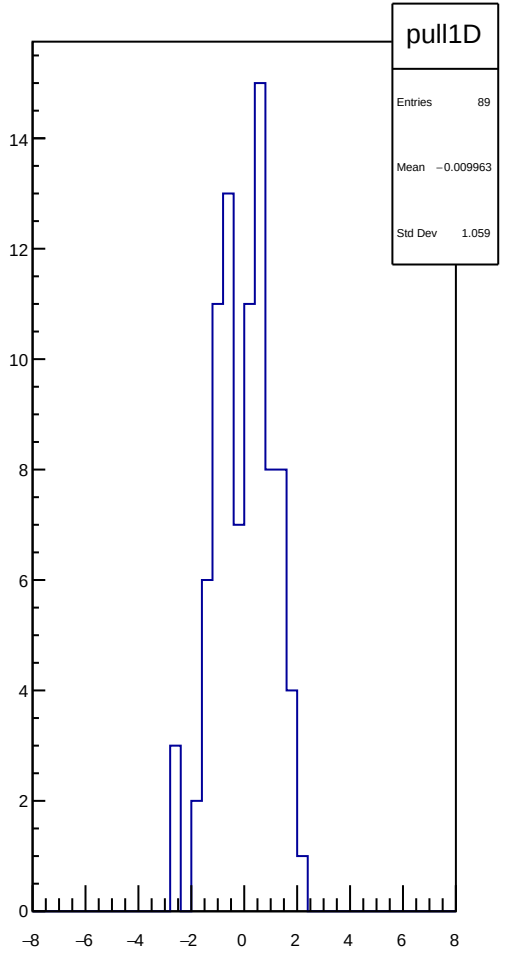

diff_bpm4aediffX_rms vs run
χ² / ndf 2085 / 88
p0 2.156e+04 ± 16.12
24500
24000
23500
23000
22500
22000
21500
21000
20500
20000

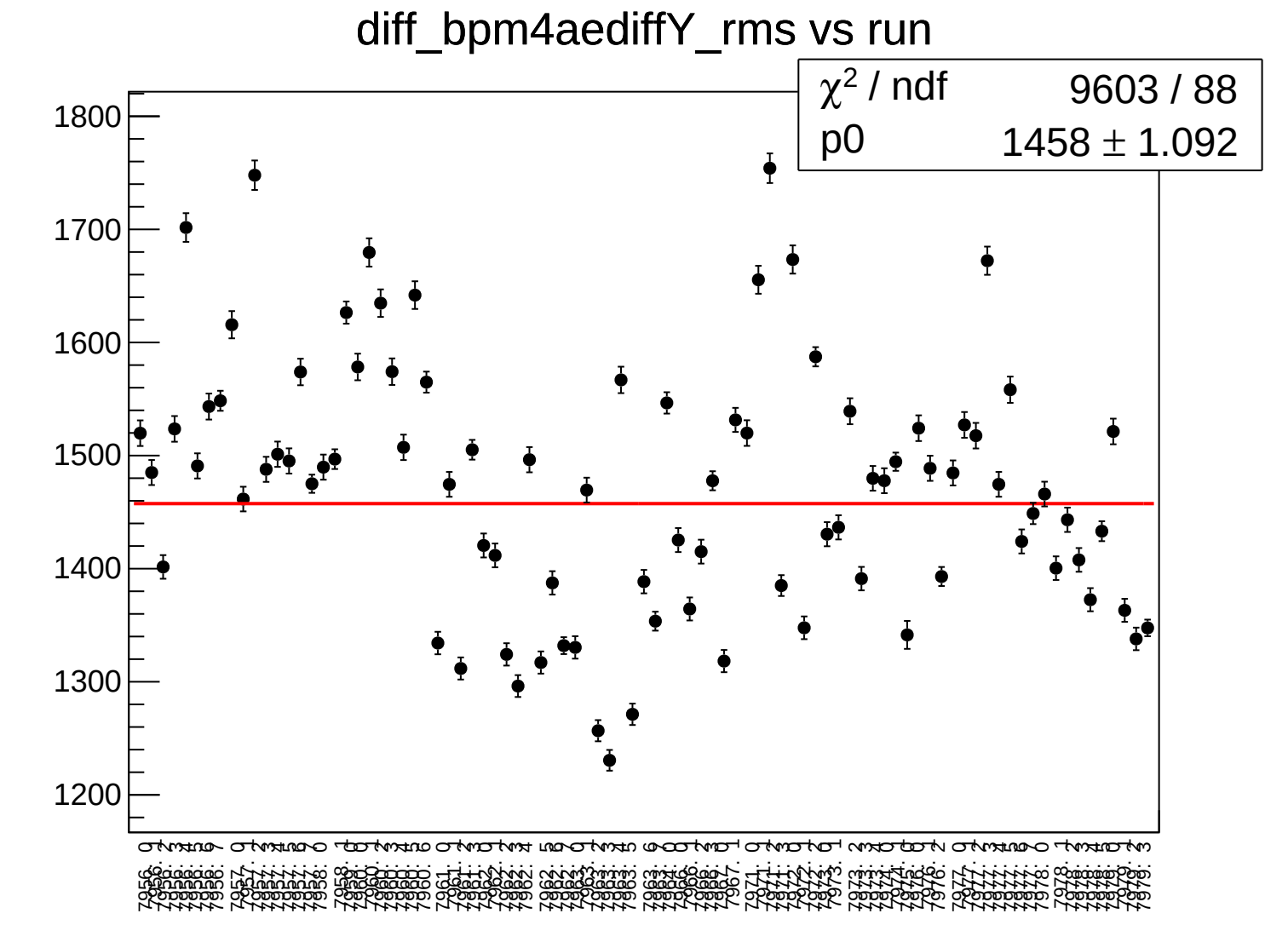

diff_bpm4aesumY_mean vs run
χ² / ndf 96.37 / 88
p0 13.38 ± 9.555
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −395.6
Std Dev 0
2
1
0
−1
−2
−3

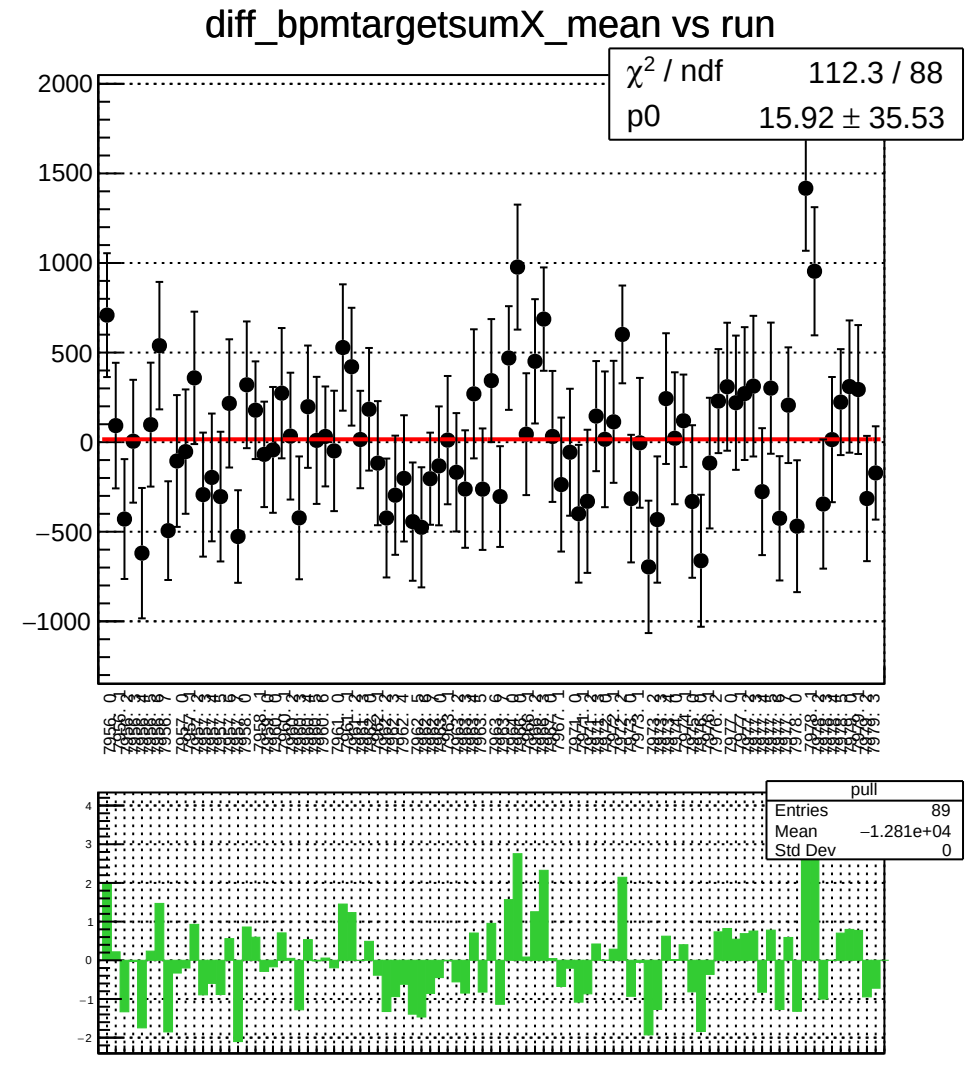

pull1D
Entries 89
Mean −0.009548
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

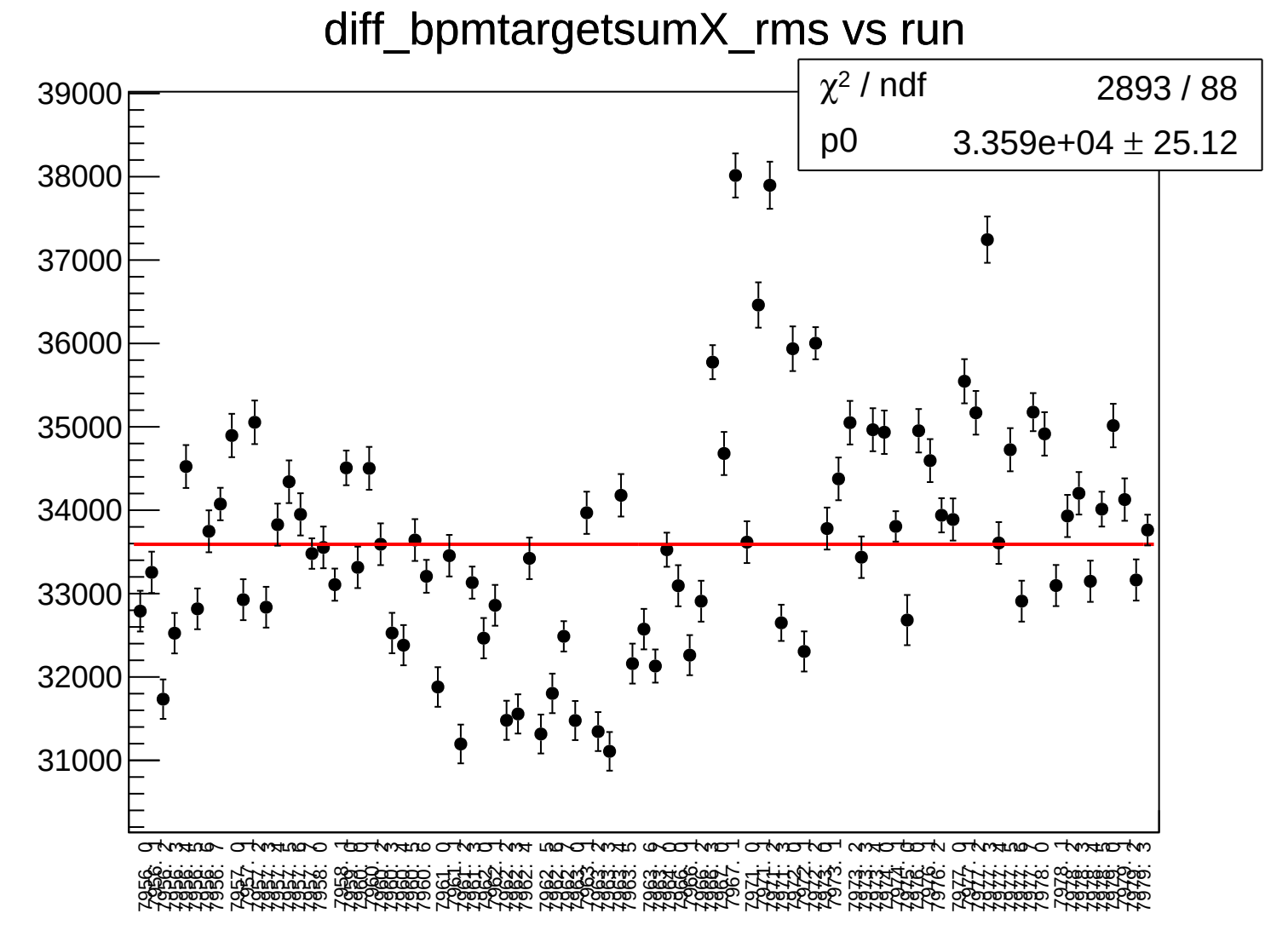

diff_bpm4aesumY_rms vs run
χ² / ndf 1.288e+04 / 88
p0 9009 ± 6.757
11500
11000
10500
10000
9500
9000
8500
8000
7500

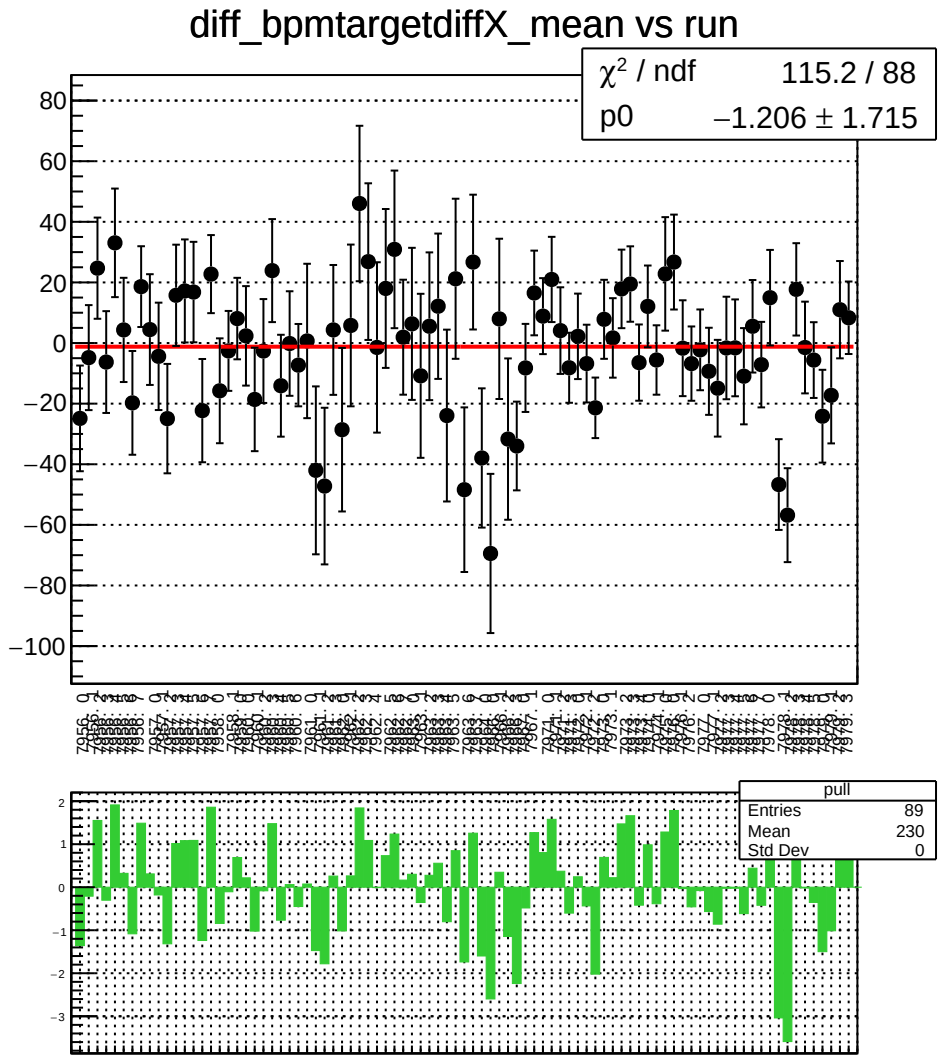

diff_bpm4aediffY_mean vs run
χ² / ndf 99.84 / 88
p0 1.94 ± 1.545
pull
Entries 89
Mean −286.7
Std Dev 0

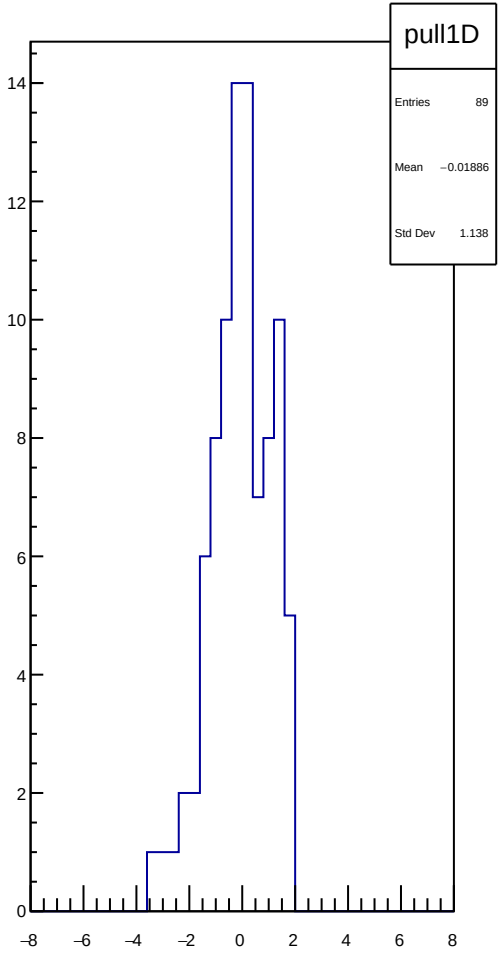

pull1D
Entries 89
Mean −0.009963
Std Dev 1.059

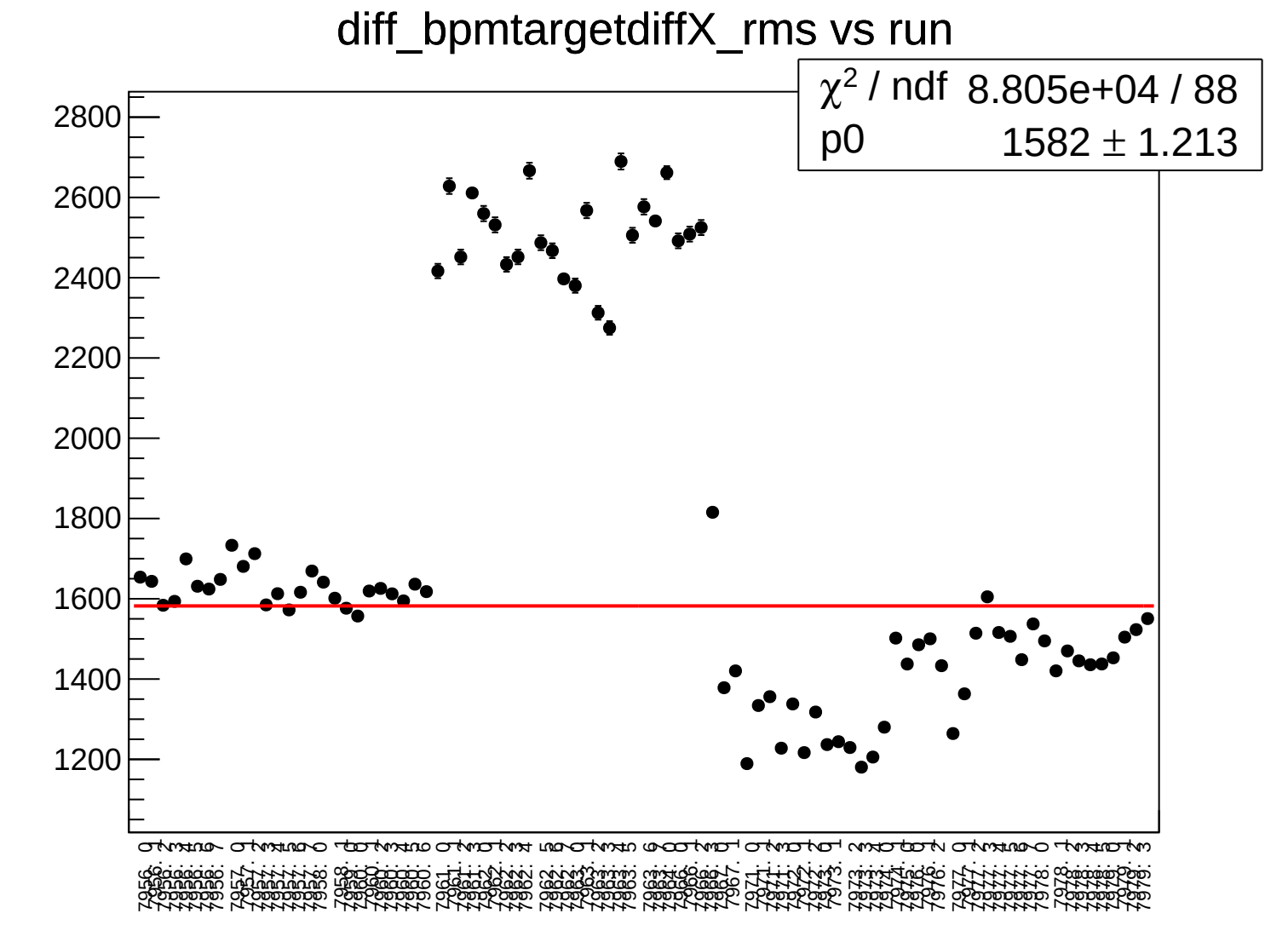

diff_bpm4aediffY_rms vs run
χ² / ndf 9603 / 88
p0 1458 ± 1.092
1800
1700
1600
1500
1400
1300
1200

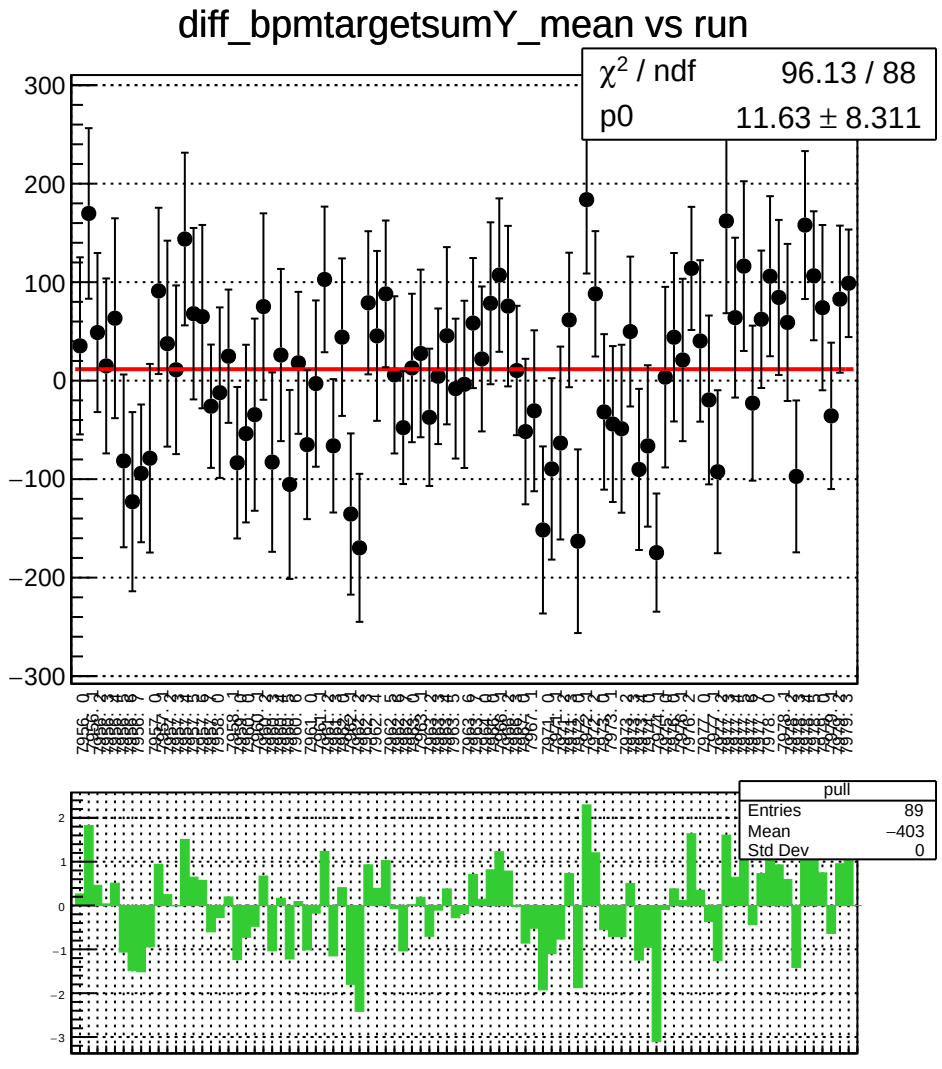

diff_bpmtargetsumX_mean vs run
χ² / ndf 112.3 / 88
p0 15.92 ± 35.53
2000
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean −1.281e+04
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.0002718
Std Dev 1.123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

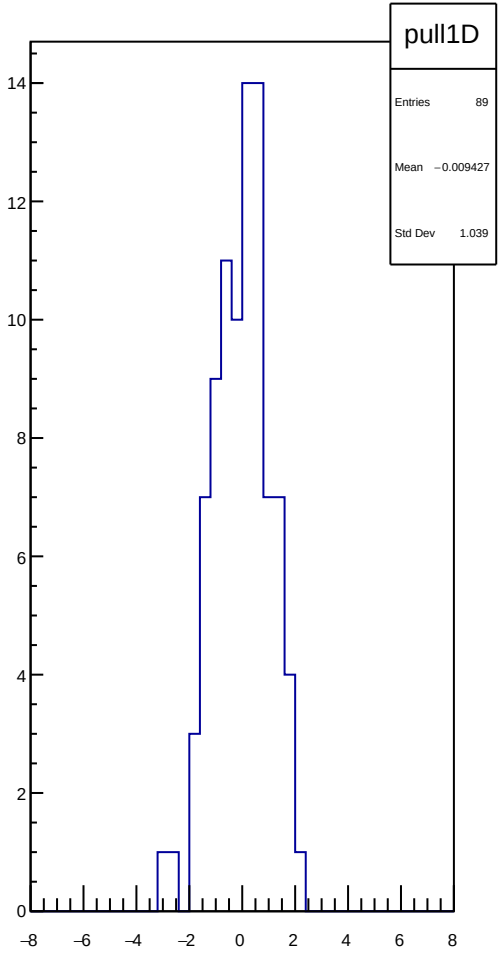

diff_bpmtargetsumX_rms vs run
χ² / ndf 2893 / 88
p0 3.359e+04 ± 25.12
39000
38000
37000
36000
35000
34000
33000
32000
31000

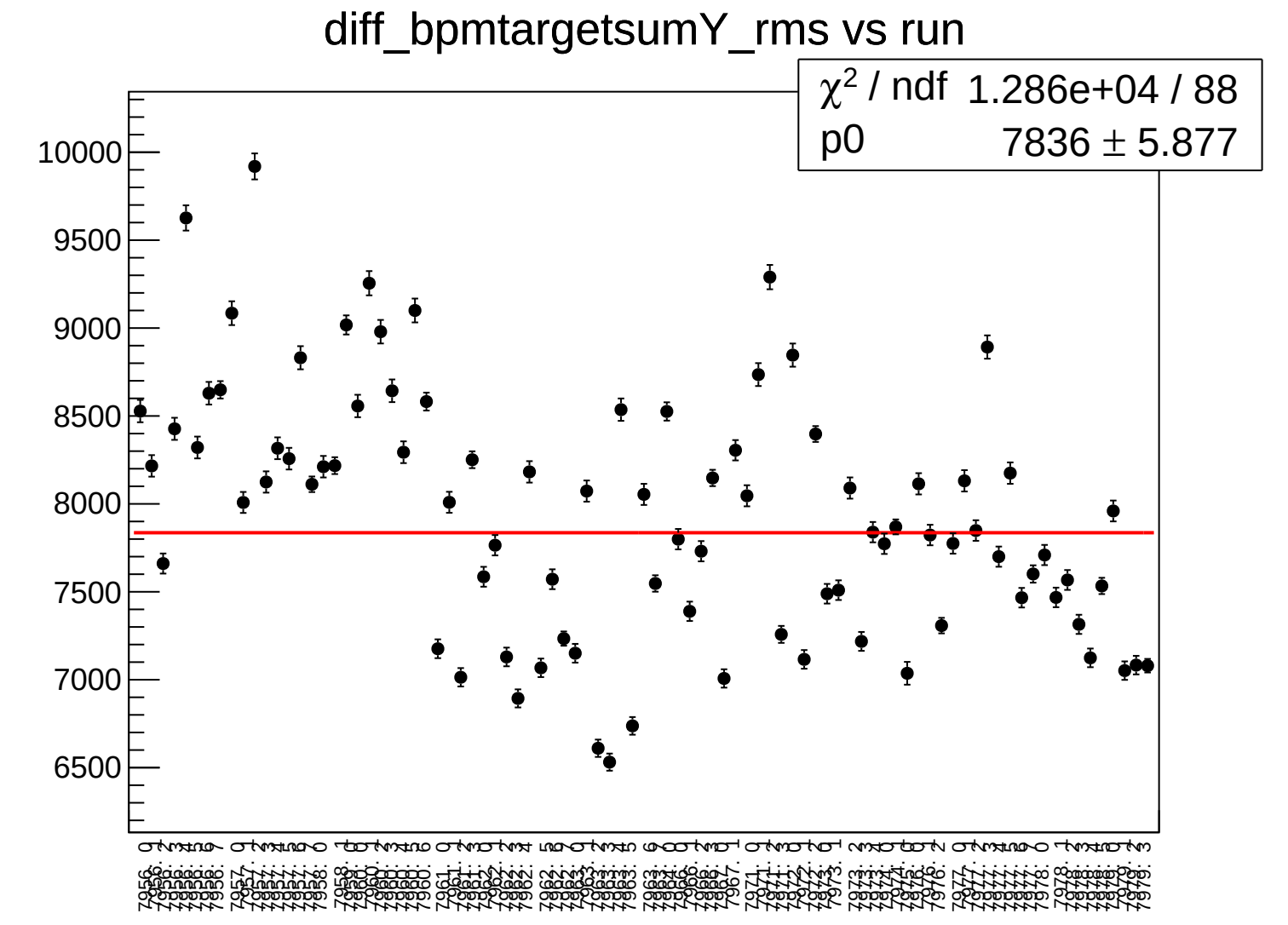

diff_bpmtargetdiffX_mean vs run
χ² / ndf 115.2 / 88
p0 −1.206 ± 1.715
pull
Entries 89
Mean 230
Std Dev 0

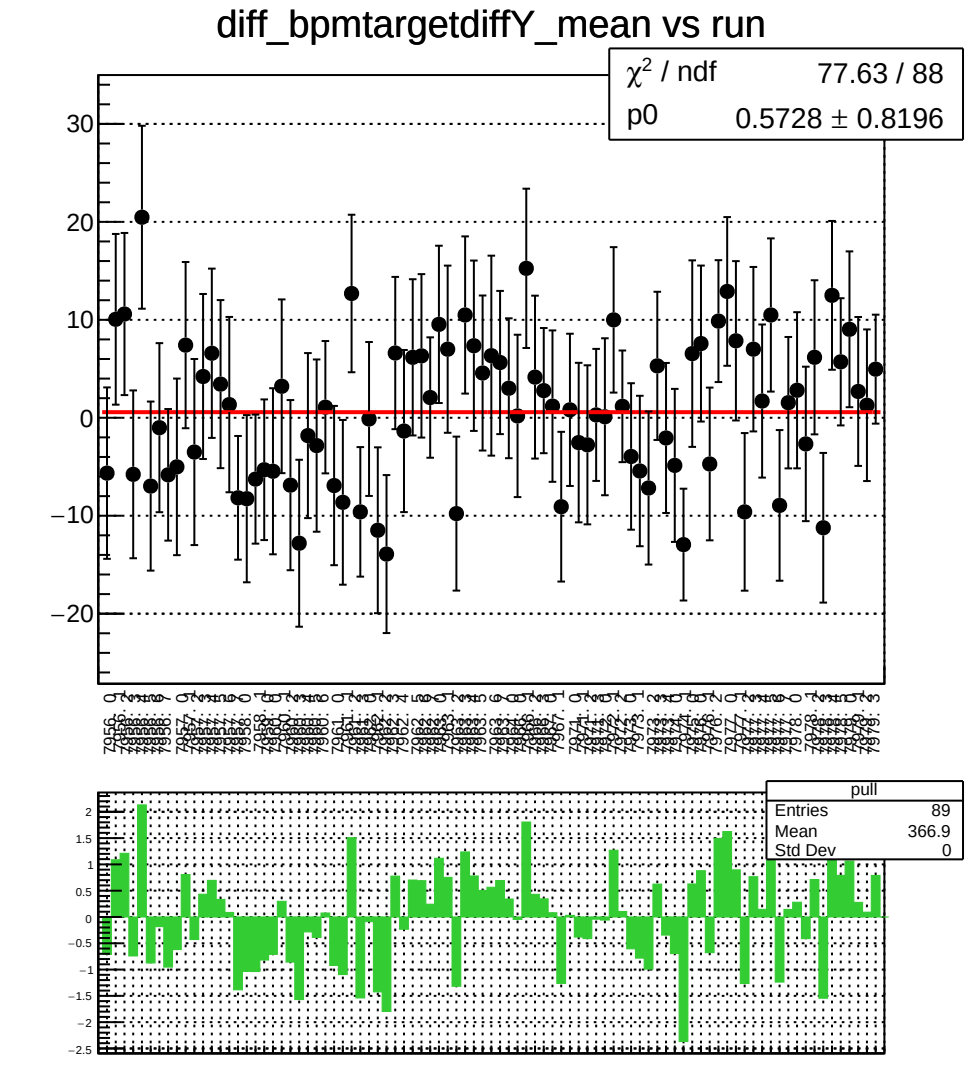

pull1D
Entries 89
Mean −0.01886
Std Dev 1.138

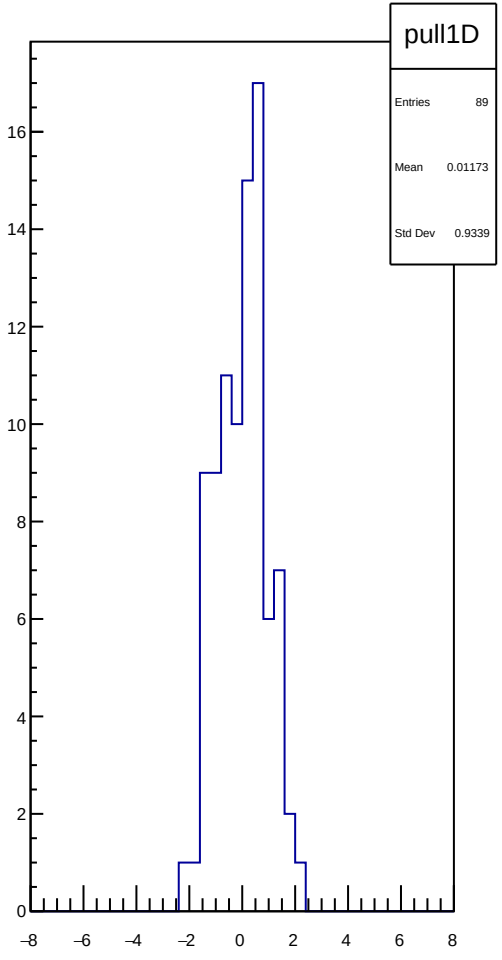

diff_bpmtargetdiffX_rms vs run
$\chi^2$ / ndf 8.805e+04 / 88
p0 1582 ± 1.213
2800
2600
2400
2200
2000
1800
1600
1400
1200

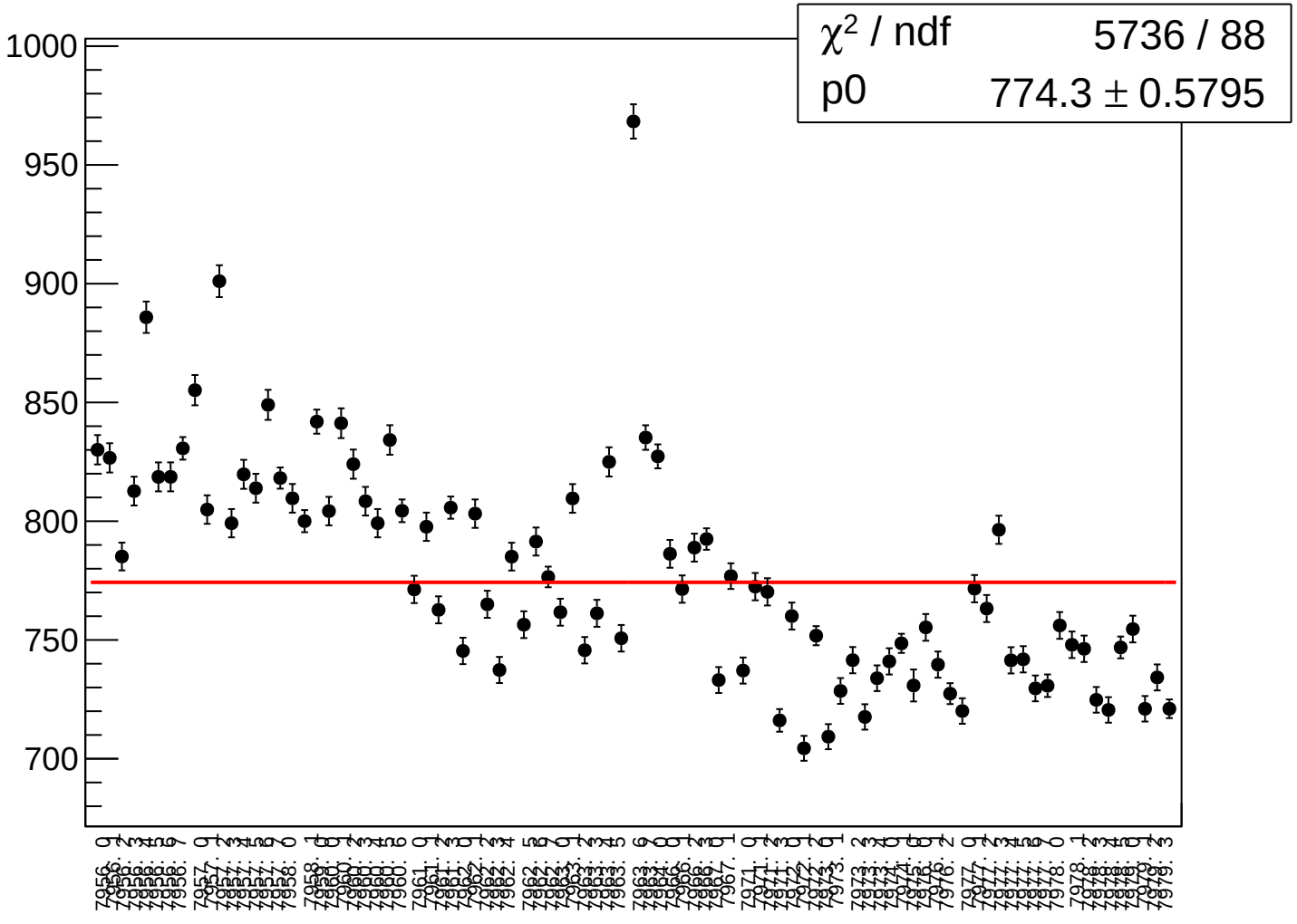

diff_bpmtargetsumY_mean vs run
χ² / ndf 96.13 / 88
p0 11.63 ± 8.311
pull
Entries 89
Mean −403
Std Dev 0

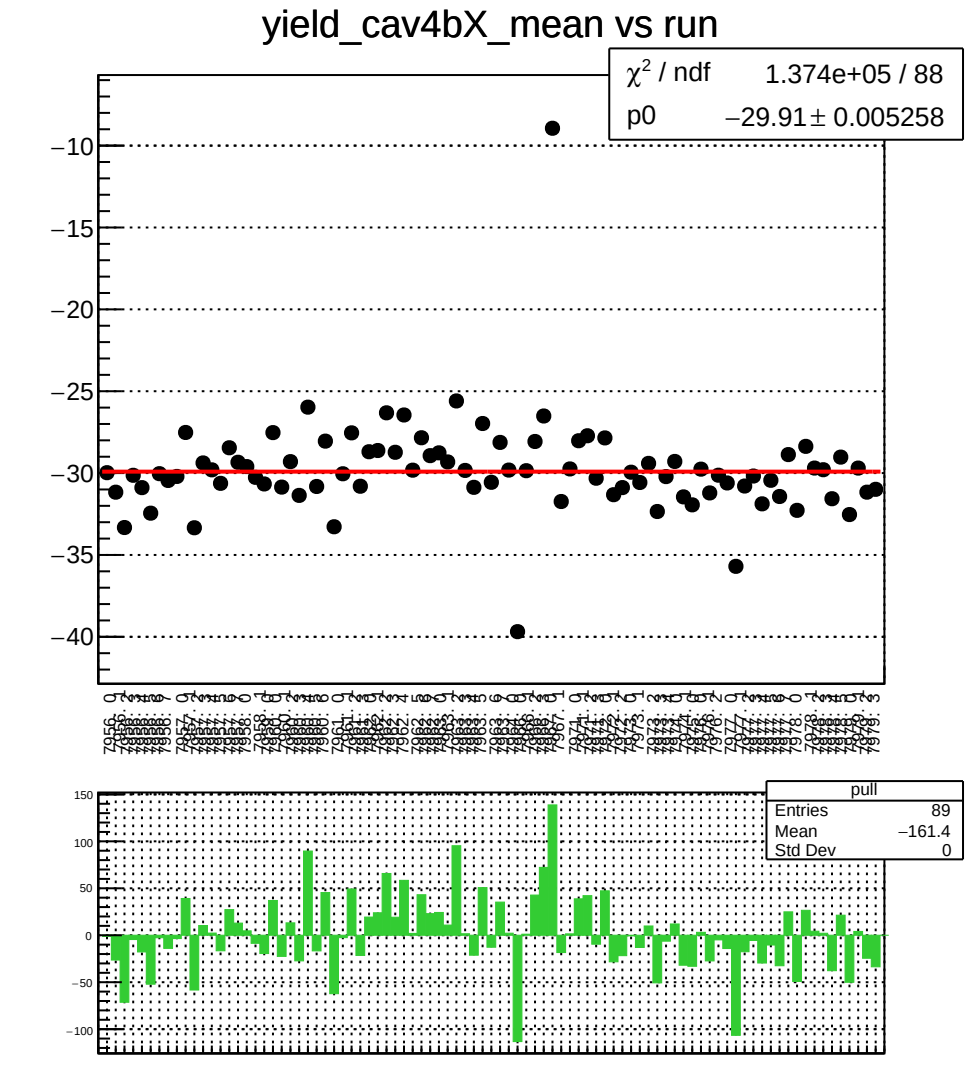

pull1D
Entries 89
Mean −0.009427
Std Dev 1.039

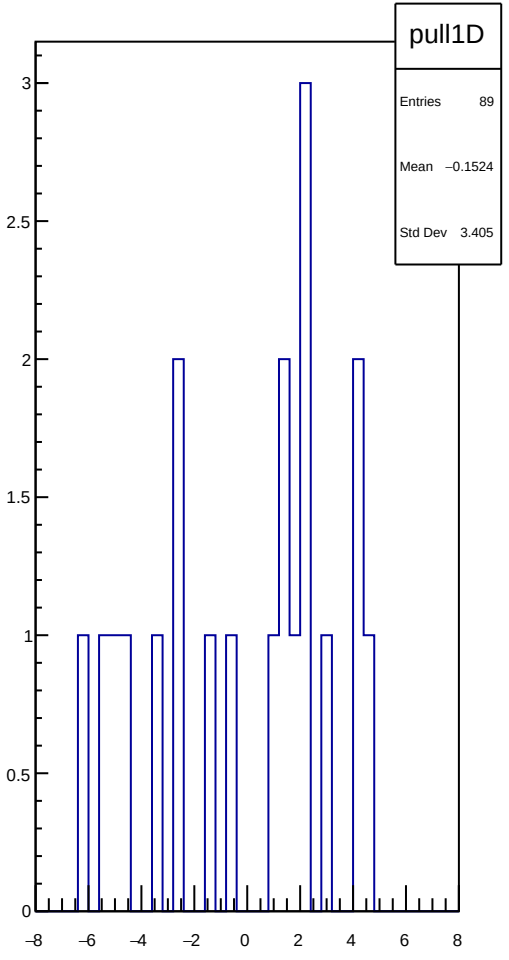

diff_bpmtargetsumY_rms vs run
χ² / ndf 1.286e+04 / 88
p0 7836 ± 5.877
10000
9500
9000
8500
8000
7500
7000
6500

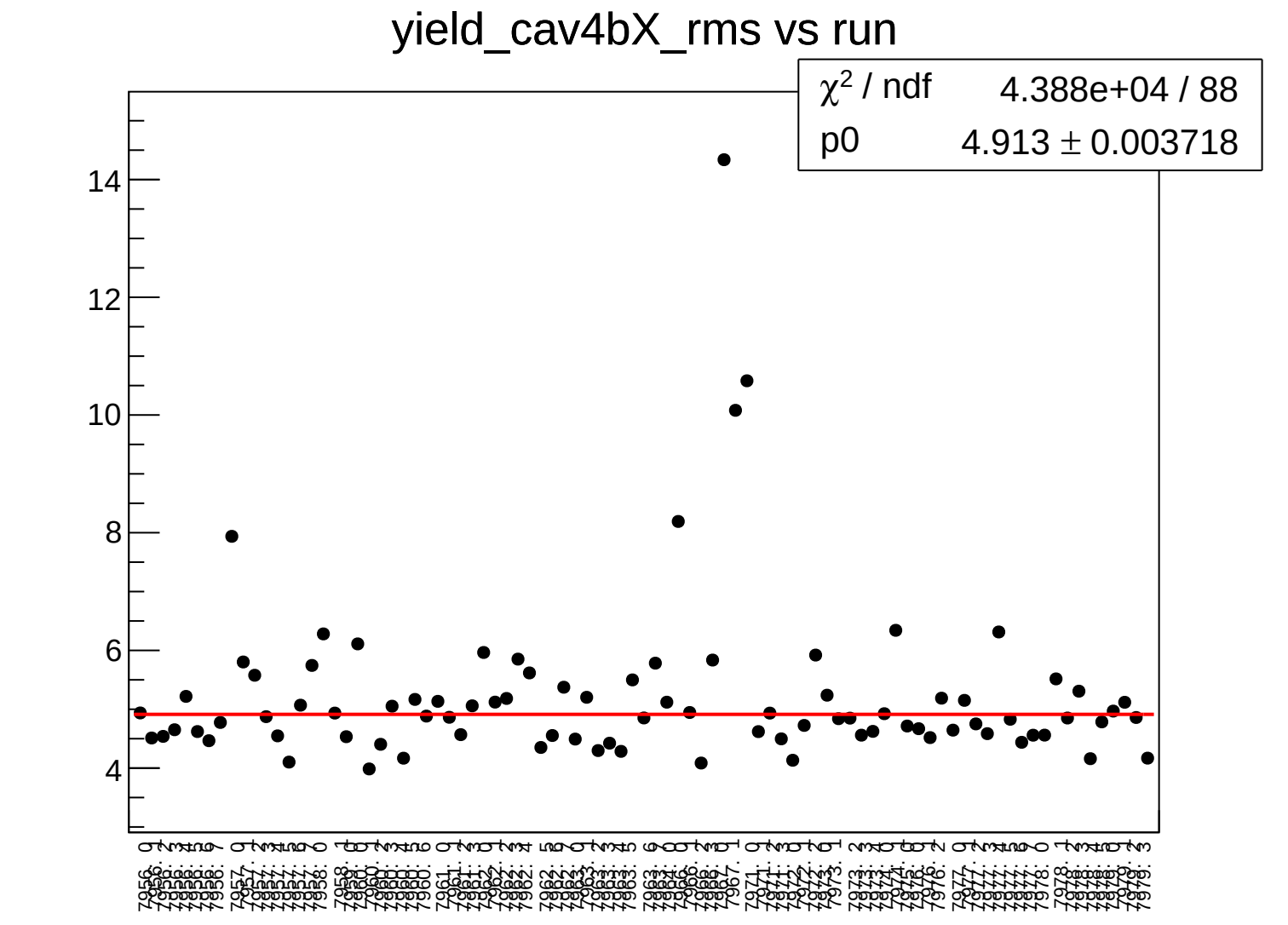

diff_bpmtargetdiffY_mean vs run
χ² / ndf 77.63 / 88
p0 0.5728 ± 0.8196
pull
Entries 89
Mean 366.9
Std Dev 0

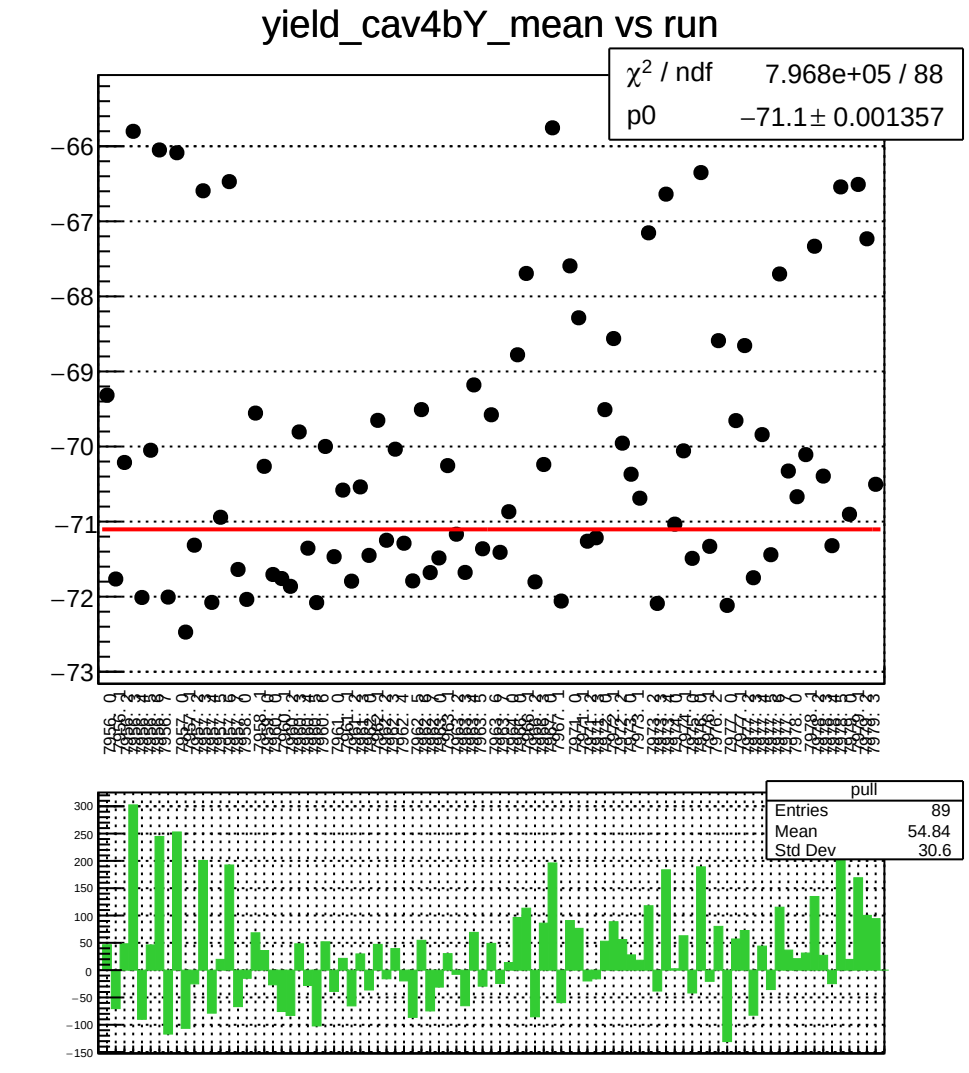

pull1D
Entries 89
Mean 0.01173
Std Dev 0.9339

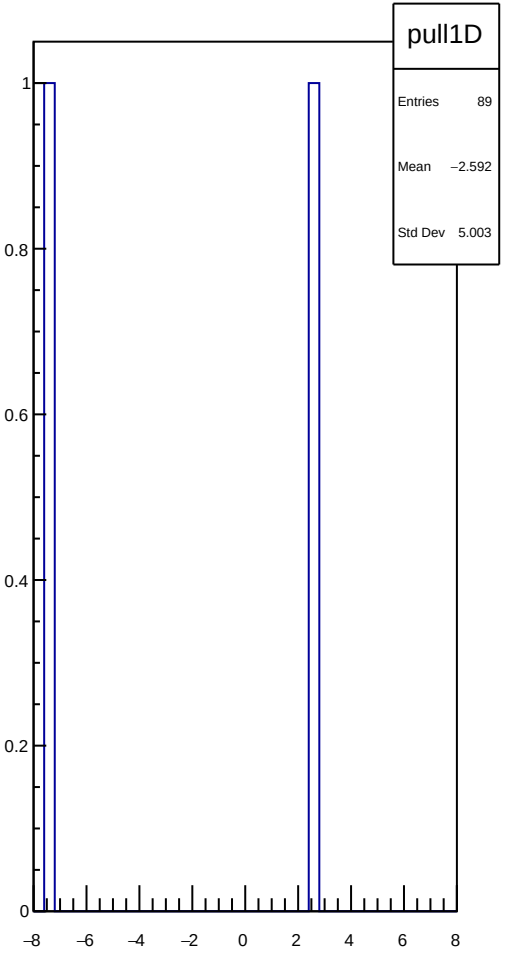

diff_bpmtargetdiffY_rms vs run
χ² / ndf 5736 / 88
p0 774.3 ± 0.5795
1000
950
900
850
800
750
700

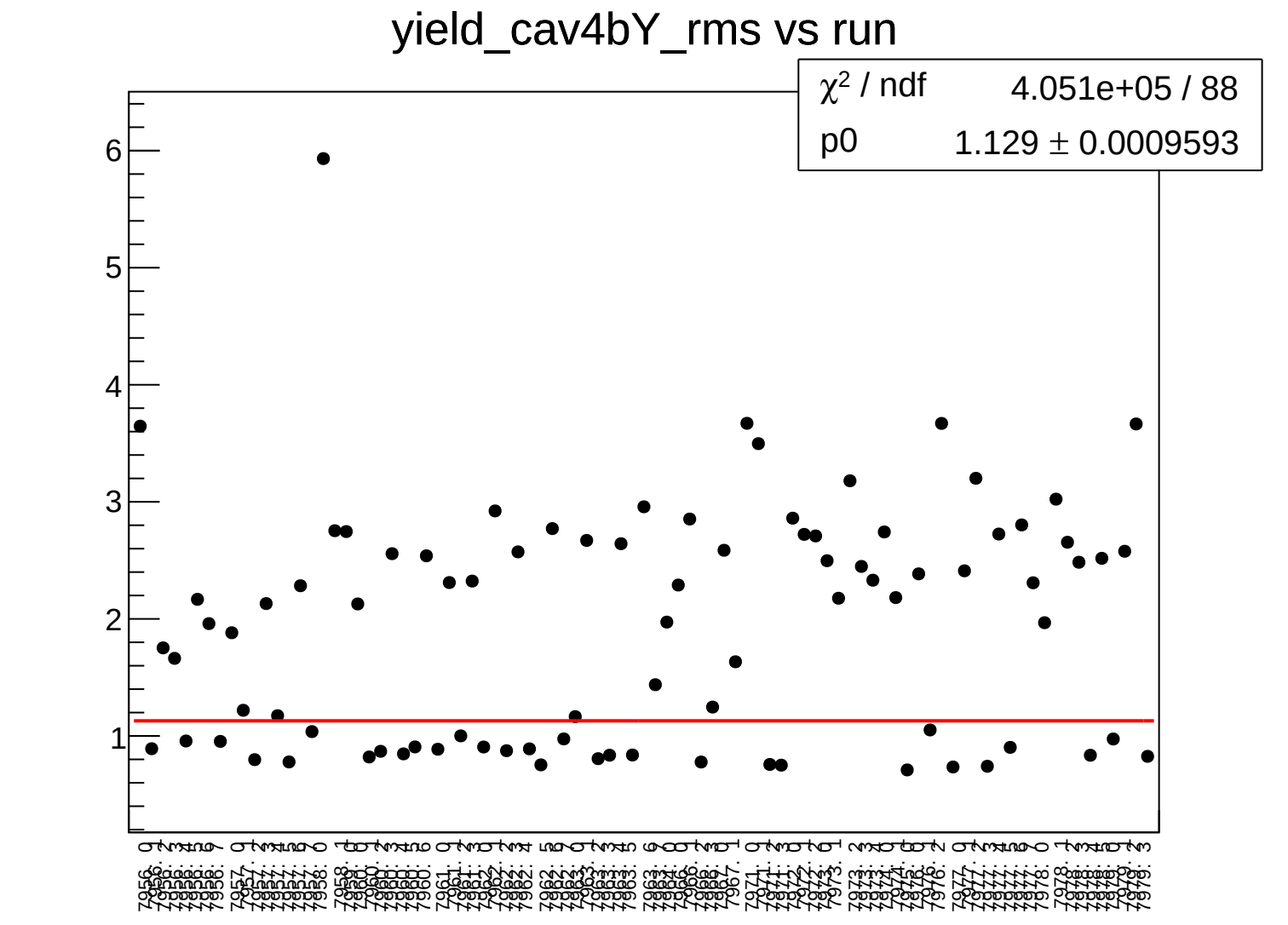

yield_cav4bX_mean vs run
χ² / ndf 1.374e+05 / 88
p0 −29.91 ± 0.005258
pull
Entries 89
Mean −161.4
Std Dev 0

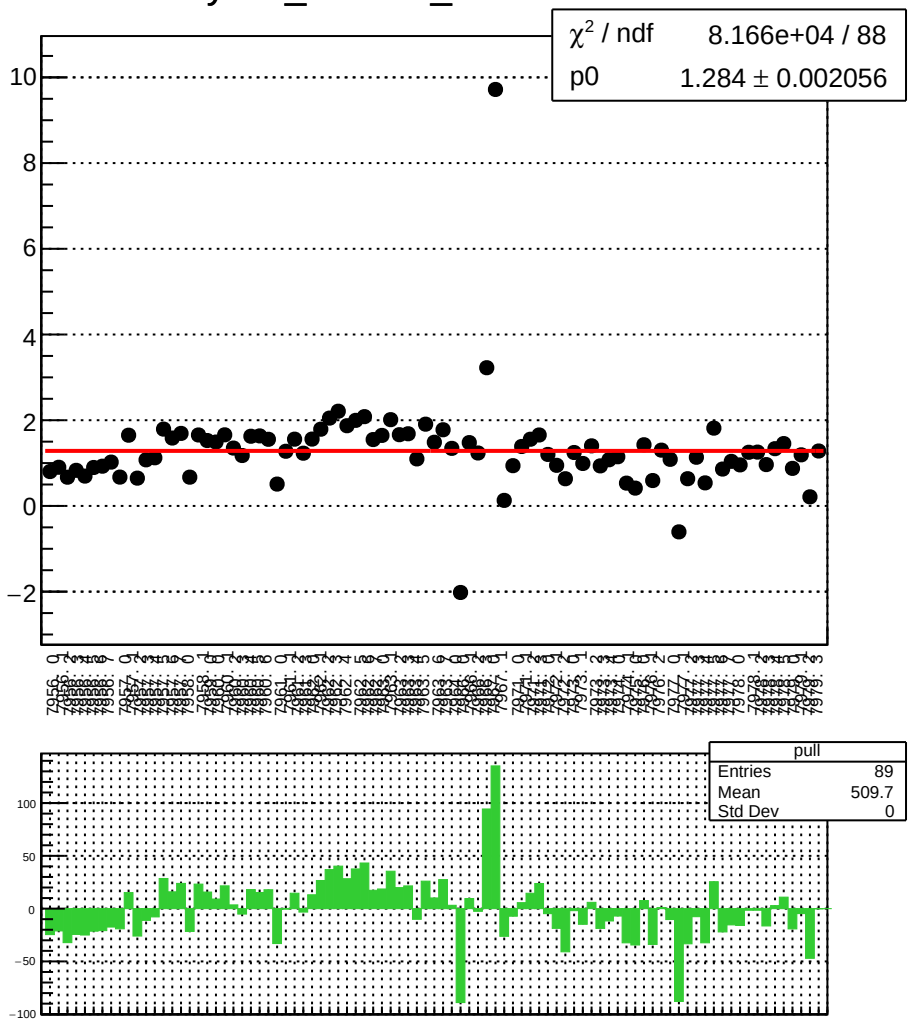

pull1D
Entries 89
Mean −0.1524
Std Dev 3.405

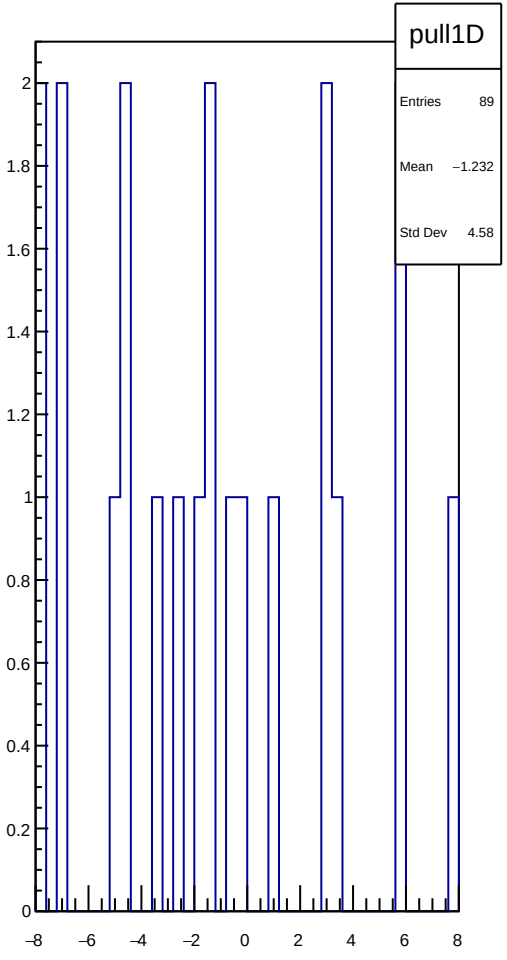

yield_cav4bX_rms vs run
$\chi^2$ / ndf 4.388e+04 / 88
p0 4.913 ± 0.003718
14
12
10
8
6
4

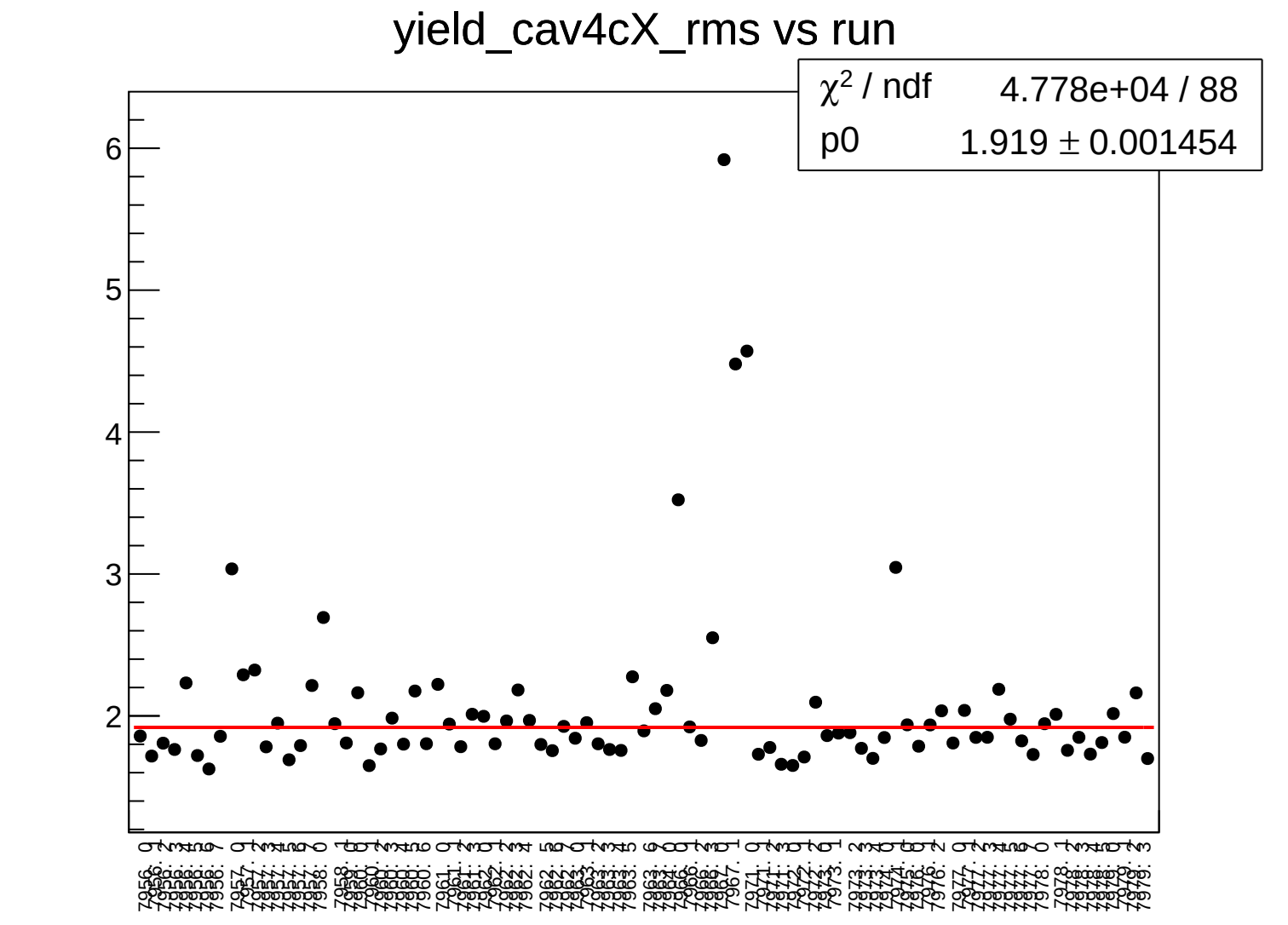

yield_cav4bY_mean vs run
χ² / ndf 7.968e+05 / 88
p0 −71.1 ± 0.001357
−66
−67
−68
−69
−70
−71
−72
−73
pull
Entries 89
Mean 54.84
Std Dev 30.6
300
250
200
150
100
50
0
−50
−100
−150

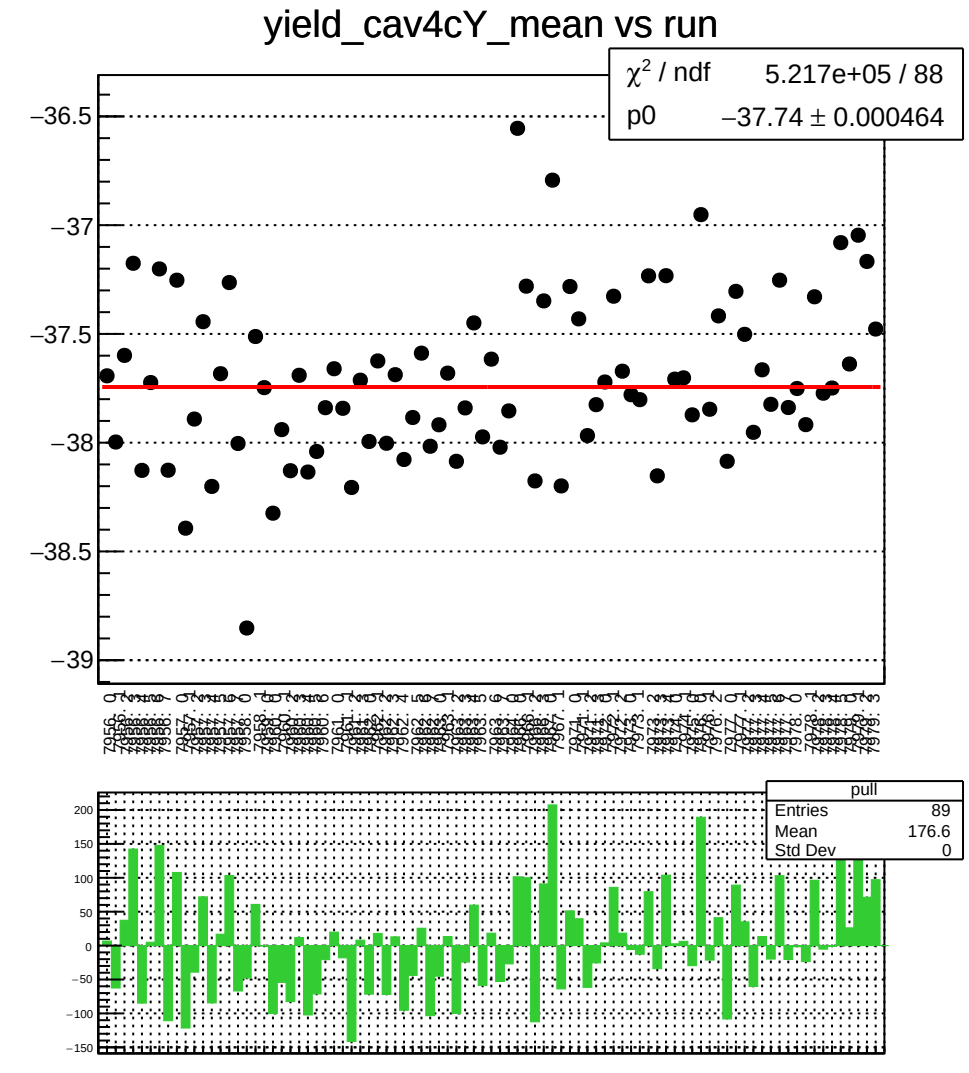

pull1D
Entries 89
Mean −2.592
Std Dev 5.003
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

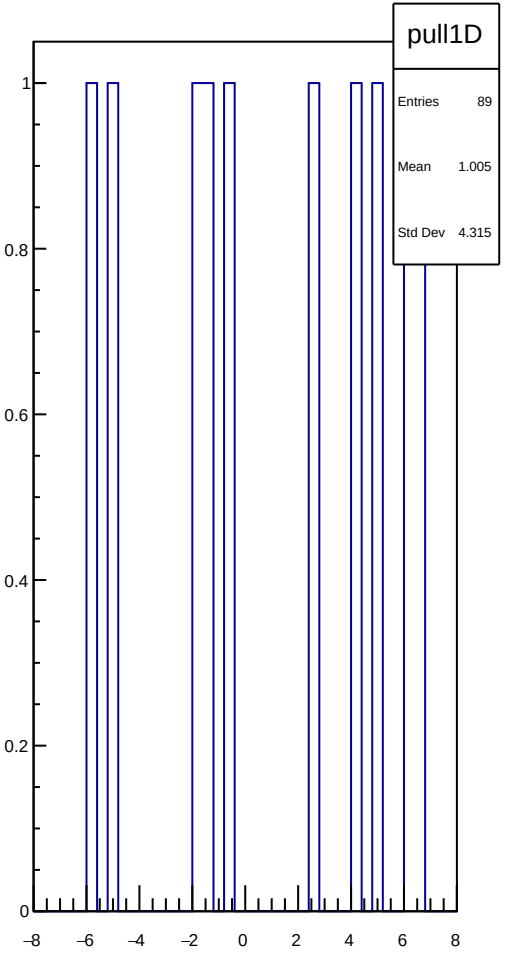

yield_cav4bY_rms vs run
χ² / ndf 4.051e+05 / 88
p0 1.129 ± 0.0009593
6
5
4
3
2
1

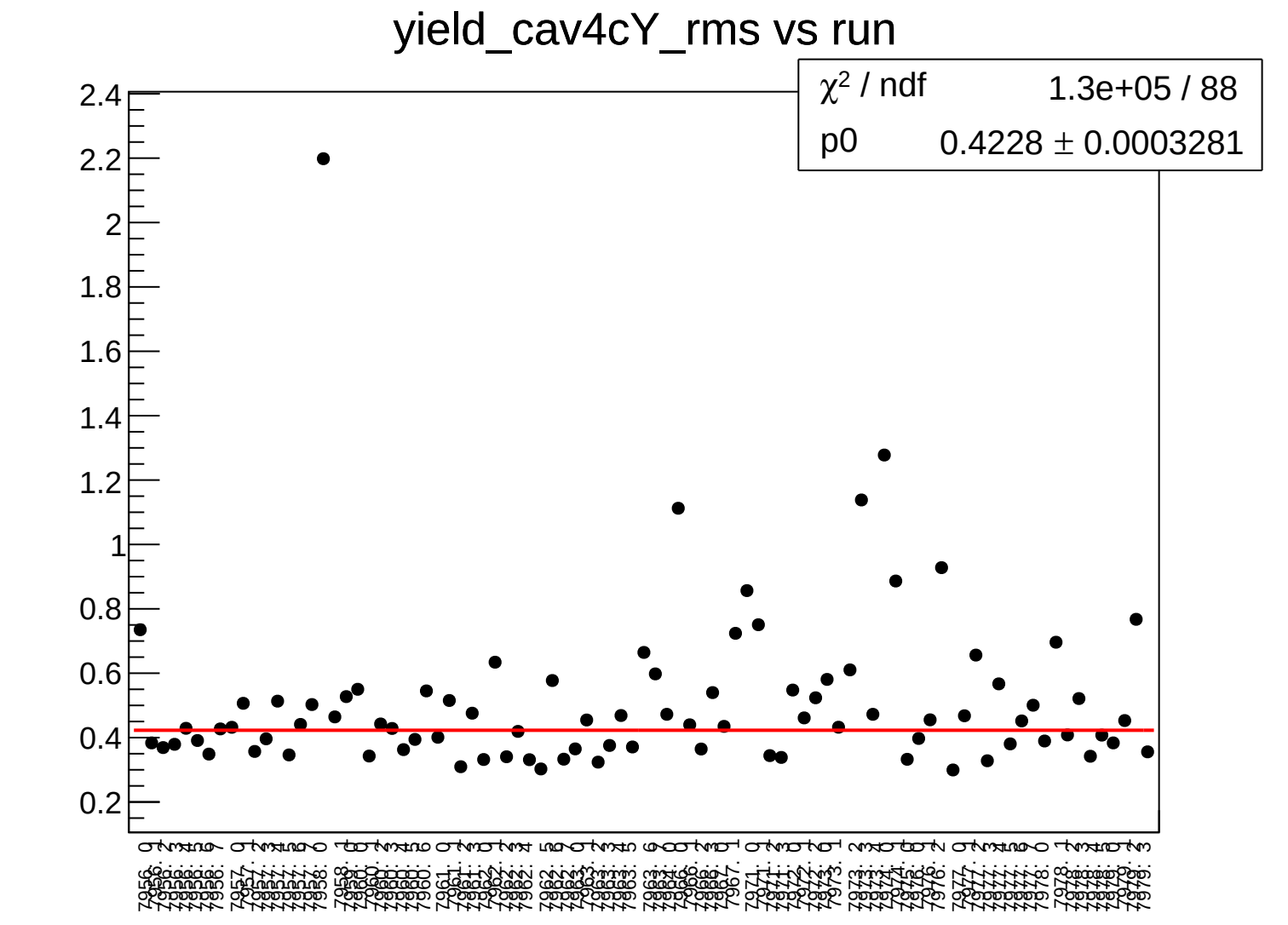

yield_cav4cX_mean vs run
χ² / ndf 8.166e+04 / 88
p0 1.284 ± 0.002056
pull
Entries 89
Mean 509.7
Std Dev 0

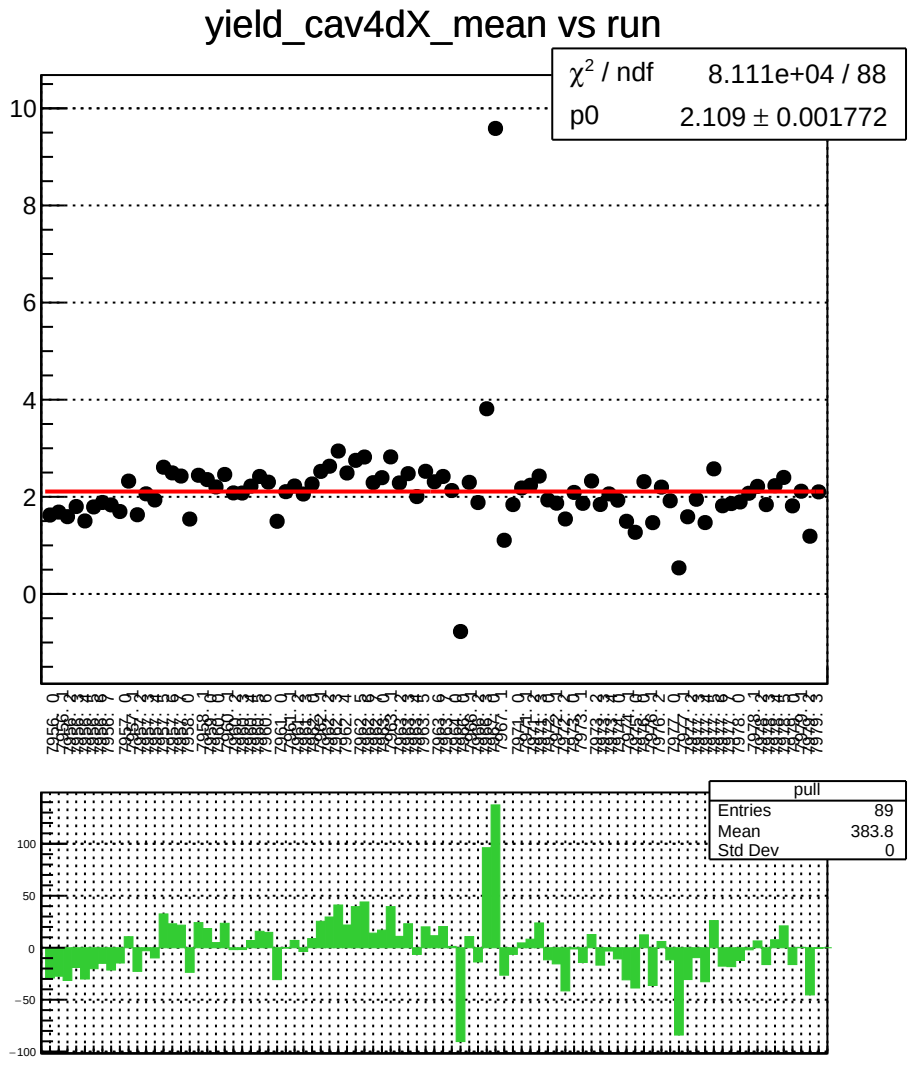

pull1D
Entries 89
Mean −1.232
Std Dev 4.58

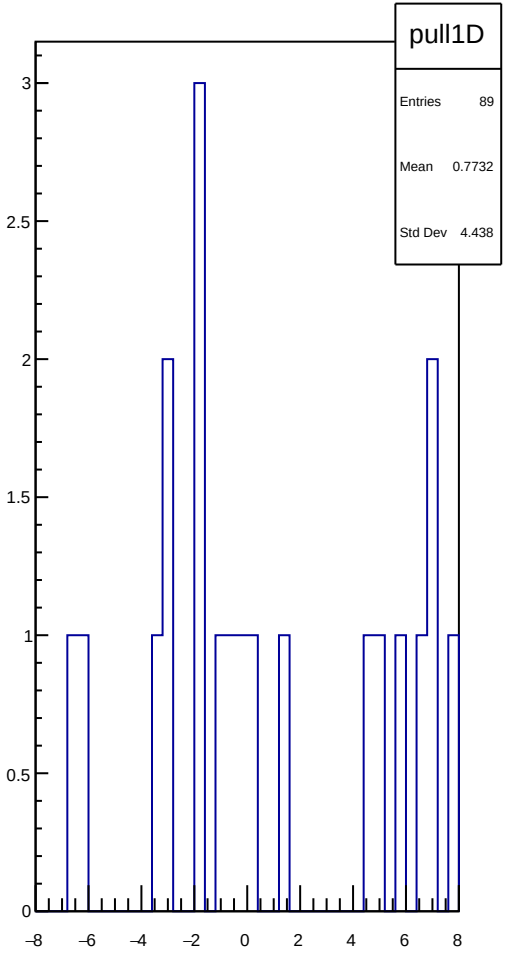

yield_cav4cX_rms vs run
$\chi^2$ / ndf 4.778e+04 / 88
p0 1.919 ± 0.001454
6
5
4
3
2

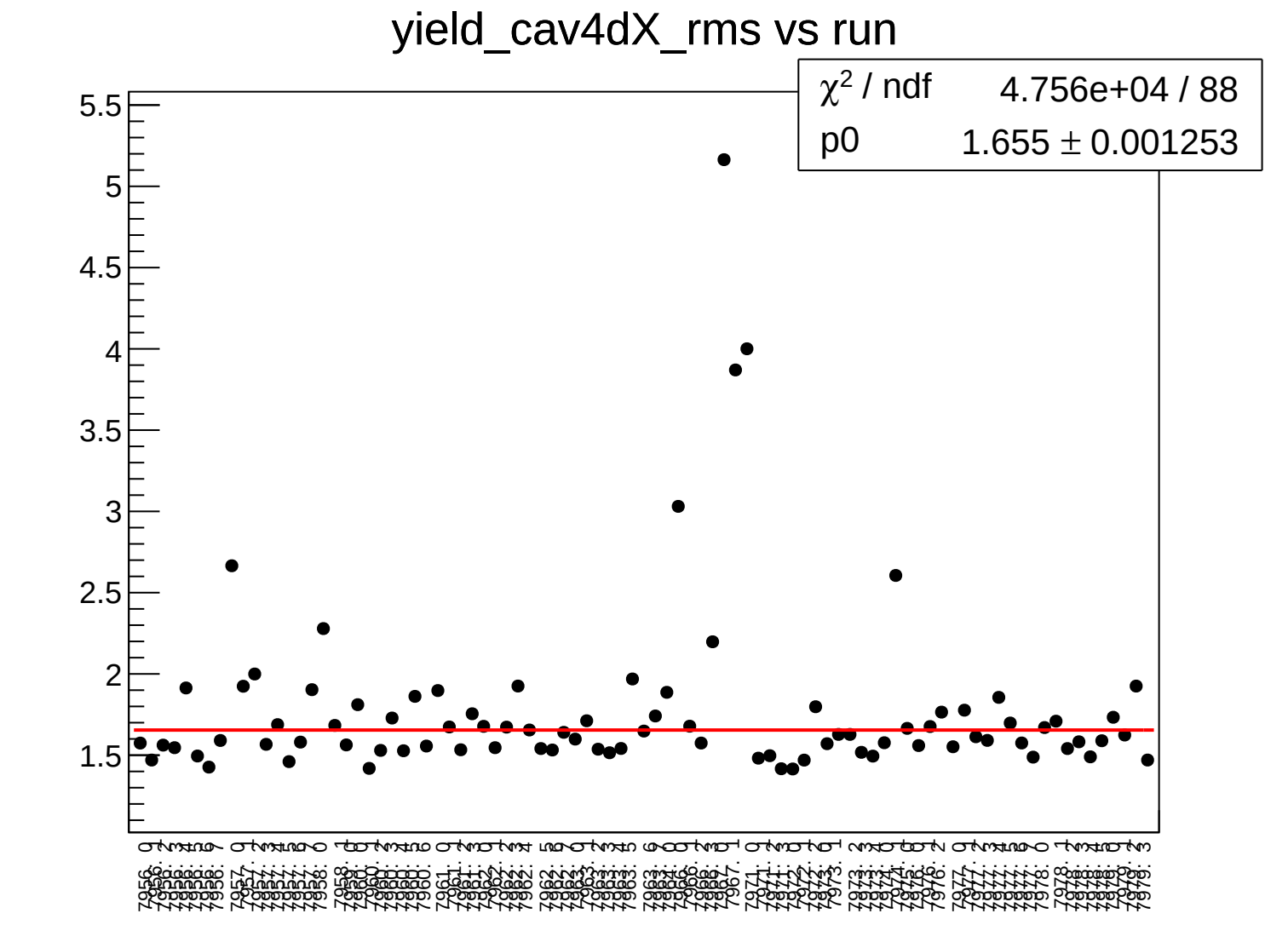

yield_cav4cY_mean vs run
χ² / ndf 5.217e+05 / 88
p0 −37.74 ± 0.000464
−36.5
−37
−37.5
−38
−38.5
−39
pull
Entries 89
Mean 176.6
Std Dev 0
200
150
100
50
0
−50
−100
−150

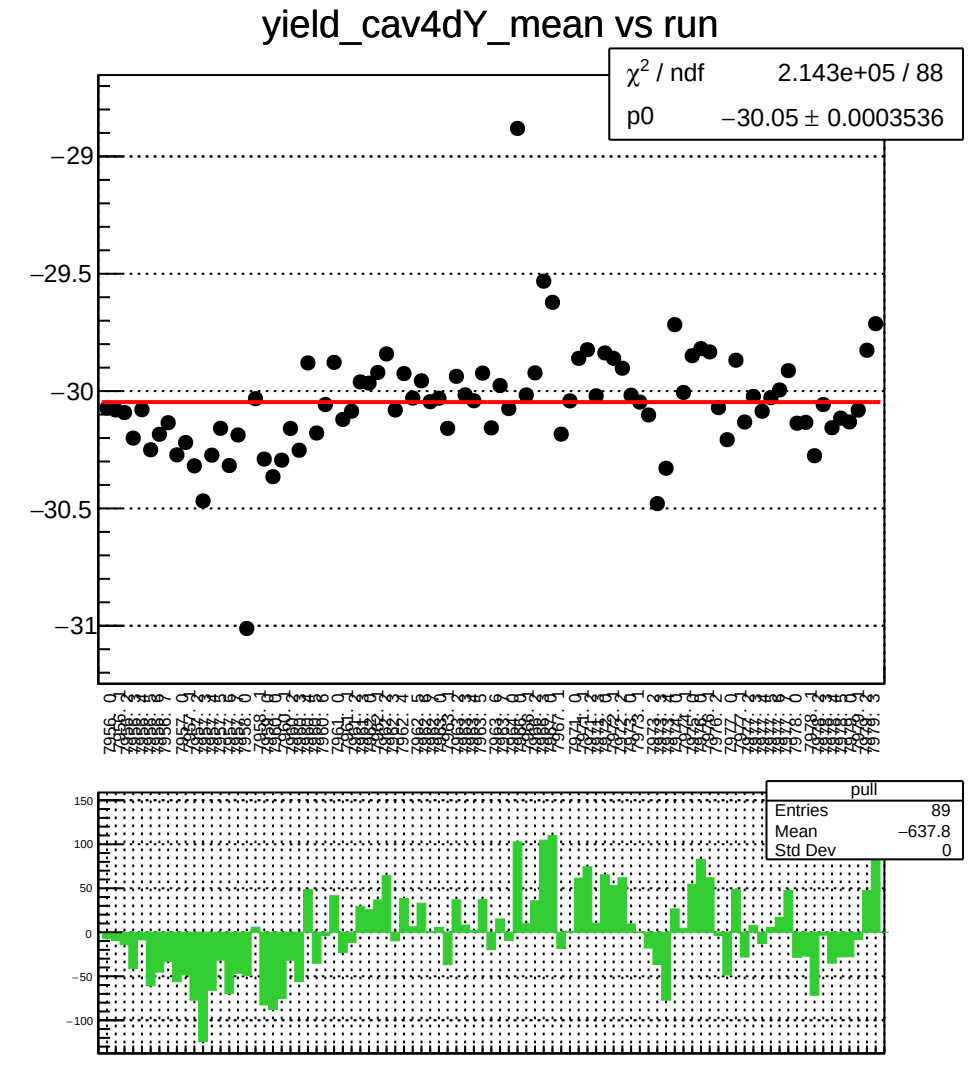

pull1D
Entries 89
Mean 1.005
Std Dev 4.315
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

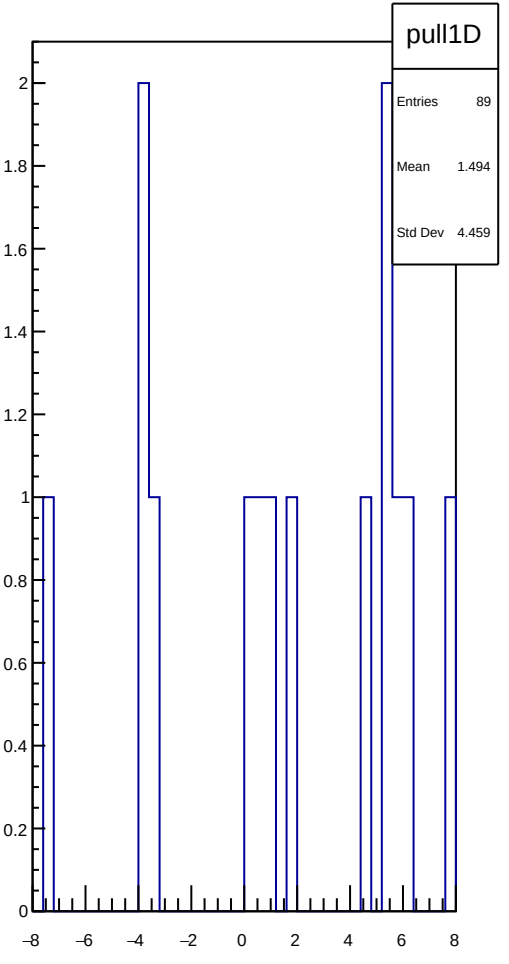

yield_cav4cY_rms vs run
χ² / ndf 1.3e+05 / 88
p0 0.4228 ± 0.0003281
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

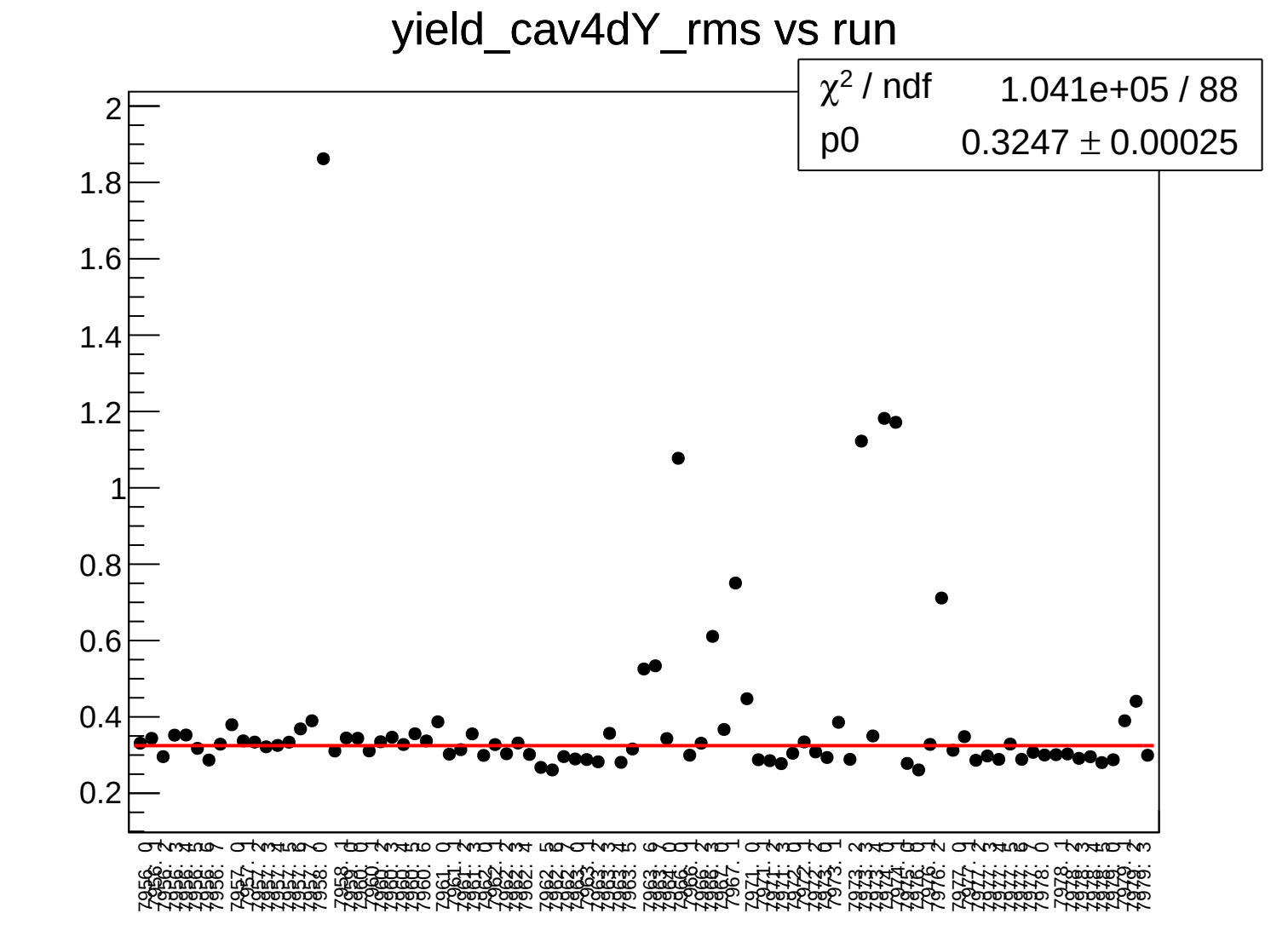

yield_cav4dX_mean vs run
χ² / ndf 8.111e+04 / 88
p0 2.109 ± 0.001772
pull
Entries 89
Mean 383.8
Std Dev 0

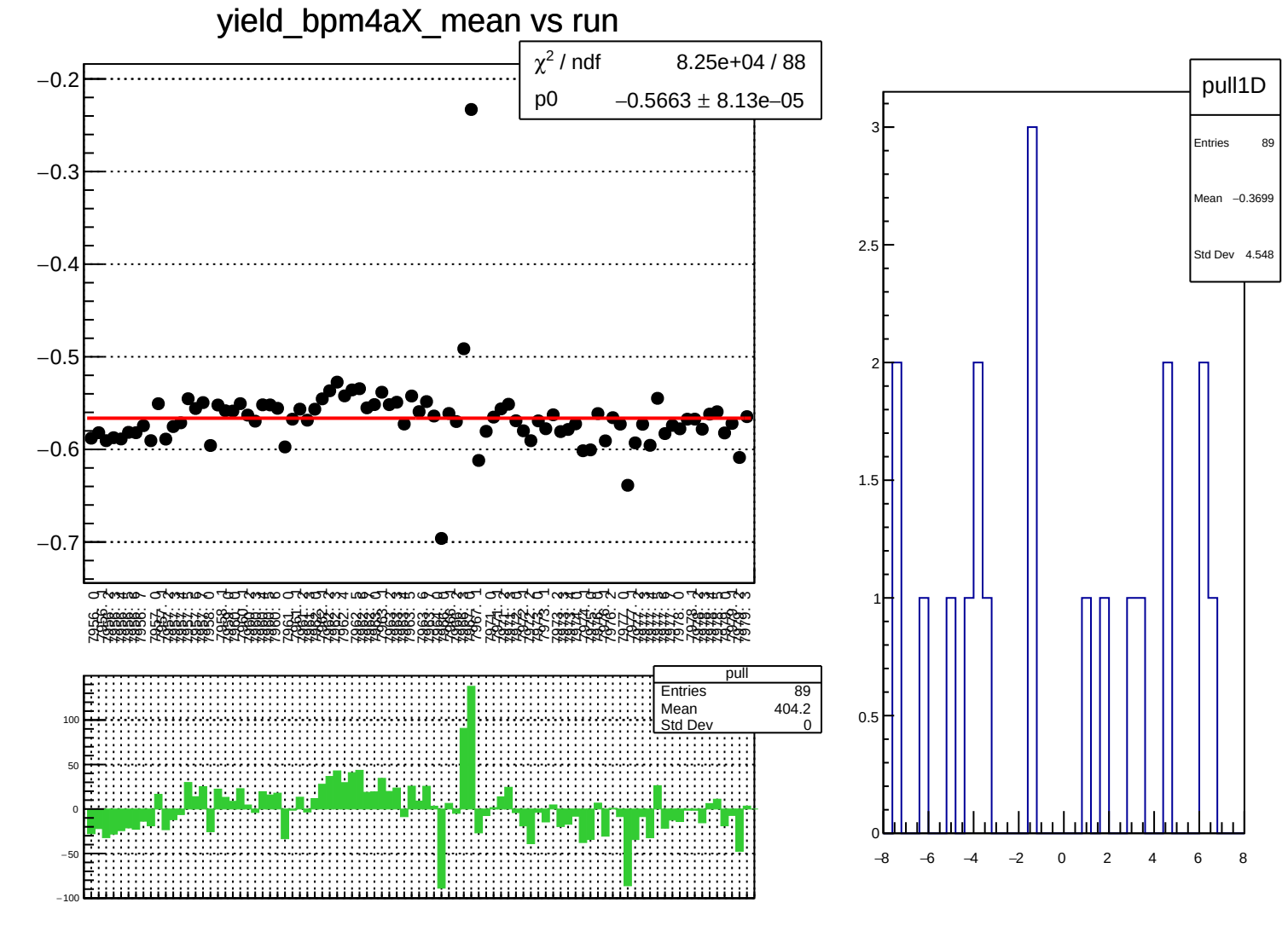

pull1D
Entries 89
Mean 0.7732
Std Dev 4.438

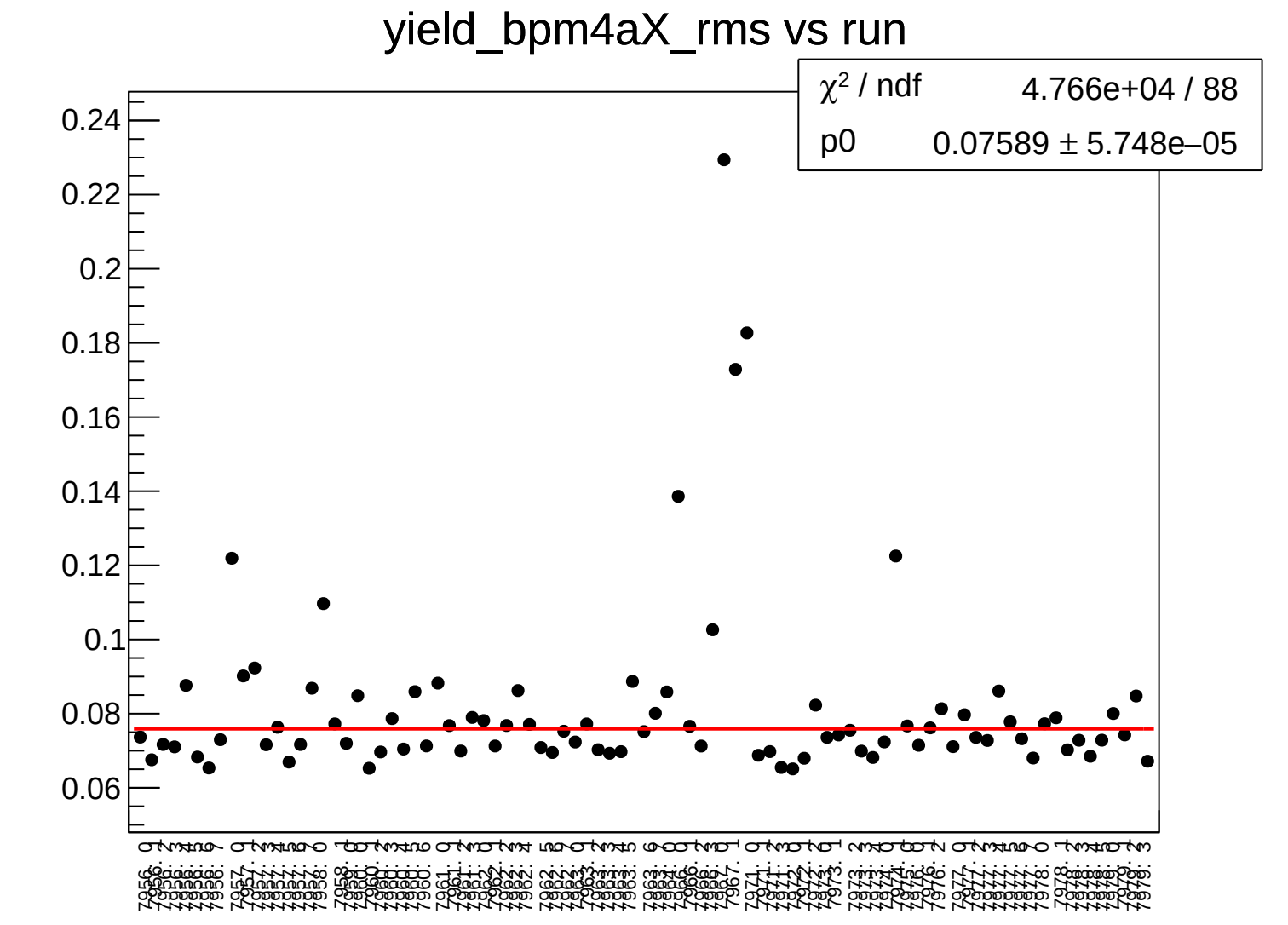

yield_cav4dX_rms vs run
$\chi^2$ / ndf 4.756e+04 / 88
p0 1.655 ± 0.001253
5.5
5
4.5
4
3.5
3
2.5
2
1.5

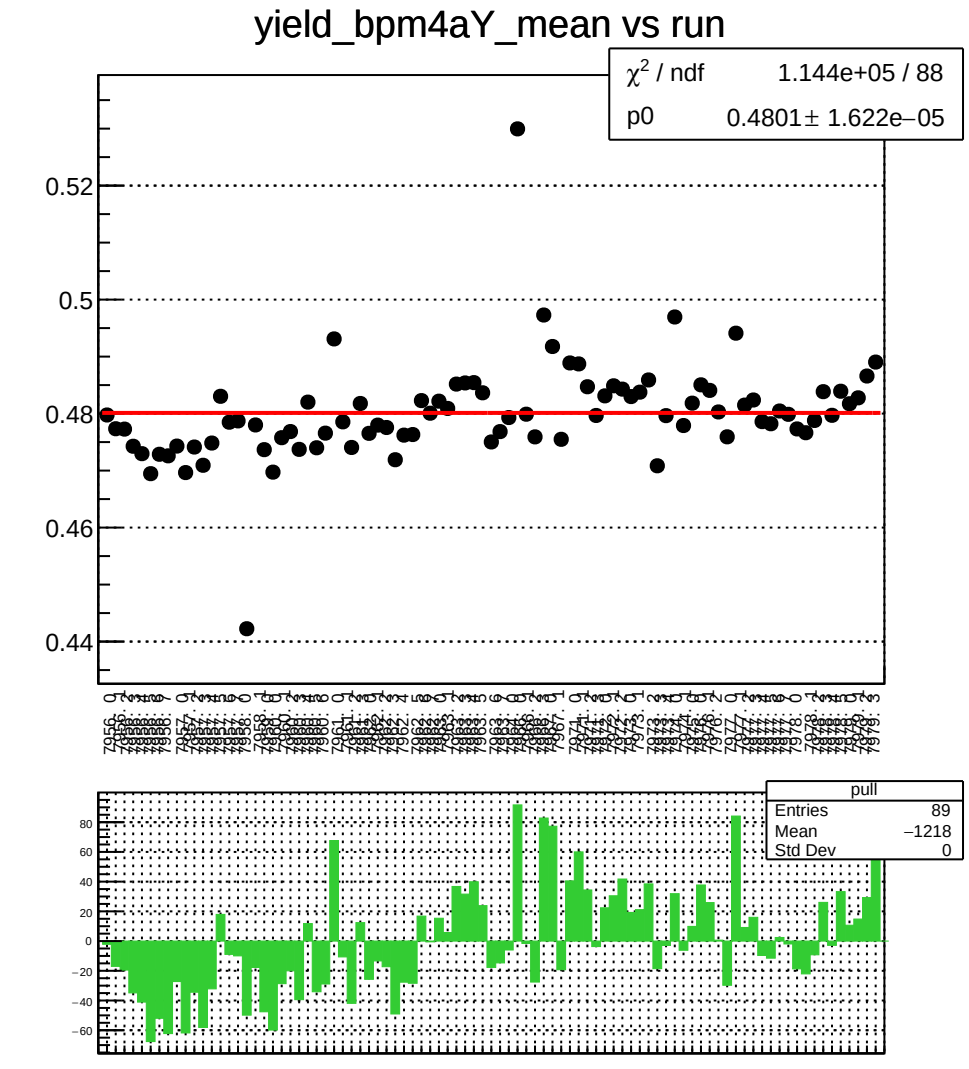

yield_cav4dY_mean vs run
χ² / ndf 2.143e+05 / 88
p0 −30.05 ± 0.0003536
−29
−29.5
−30
−30.5
−31
pull
Entries 89
Mean −637.8
Std Dev 0
150
100
50
0
−50
−100

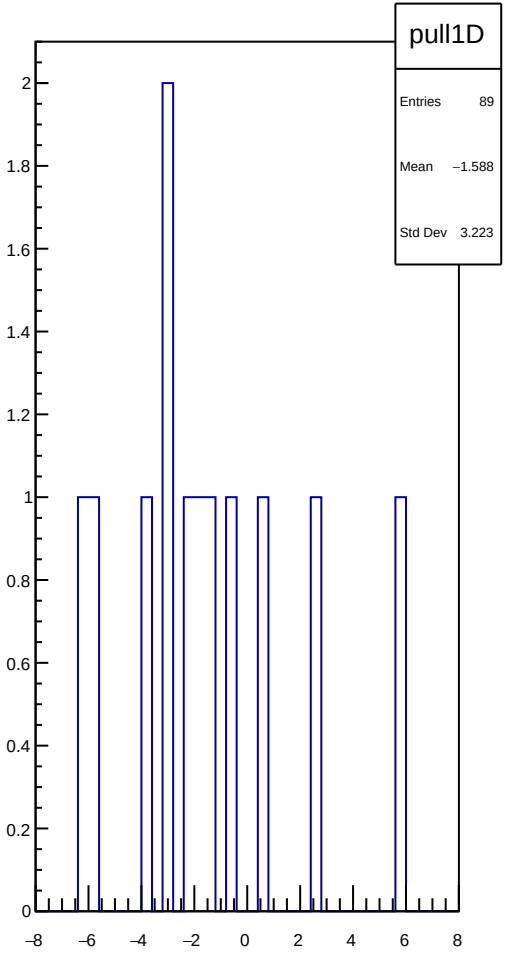

pull1D
Entries 89
Mean 1.494
Std Dev 4.459
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

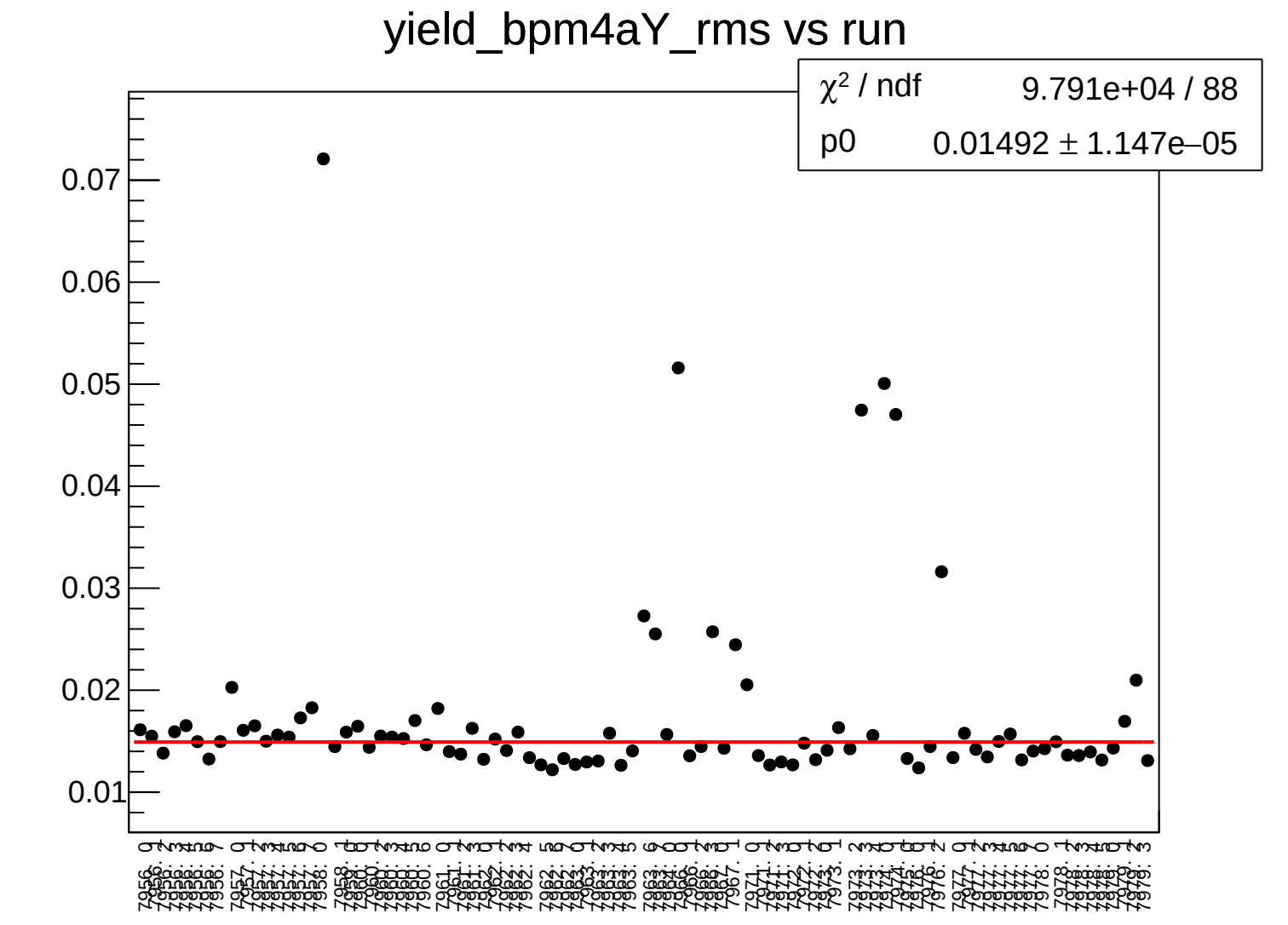

yield_cav4dY_rms vs run
$\chi^2$ / ndf 1.041e+05 / 88
p0 0.3247 ± 0.00025
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

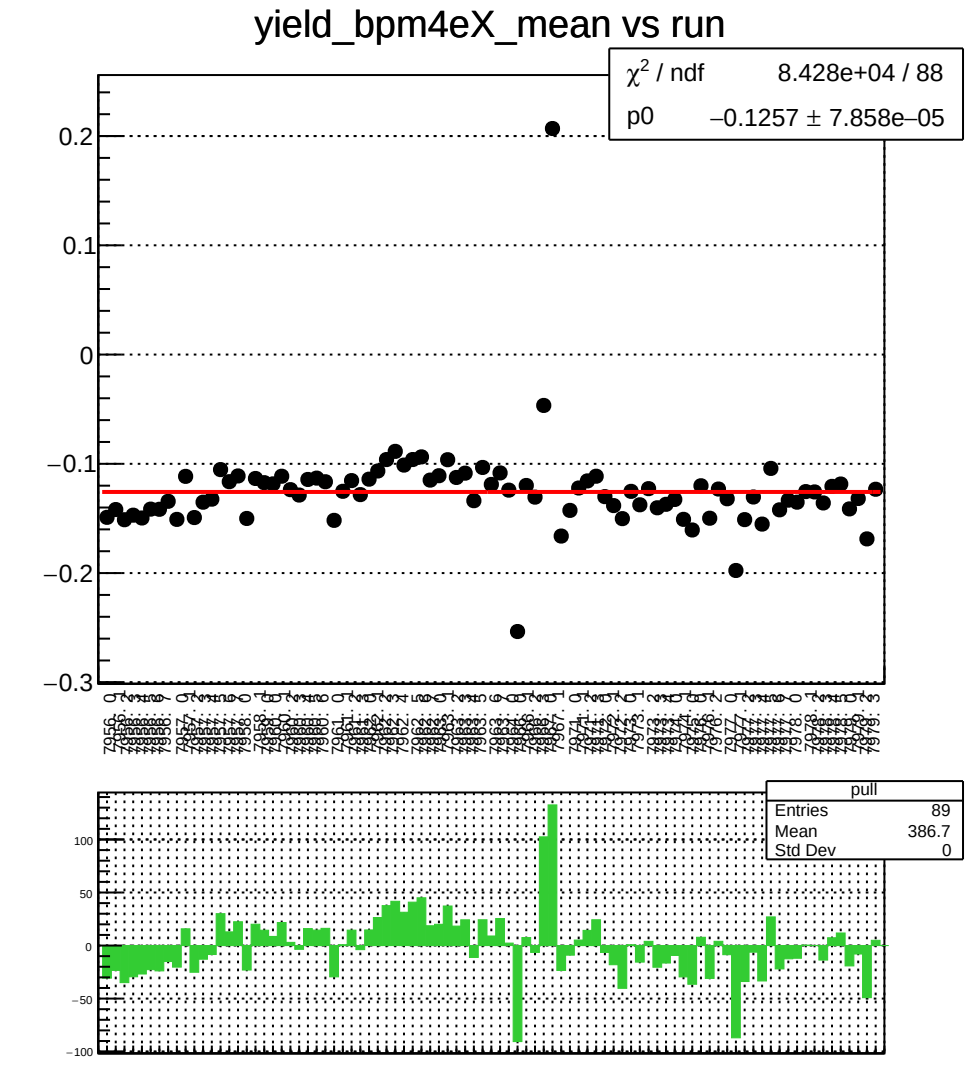

yield_bpm4aX_mean vs run
χ² / ndf 8.25e+04 / 88
p0 −0.5663 ± 8.13e−05
pull
Entries 89
Mean 404.2
Std Dev 0
pull1D
Entries 89
Mean −0.3699
Std Dev 4.548

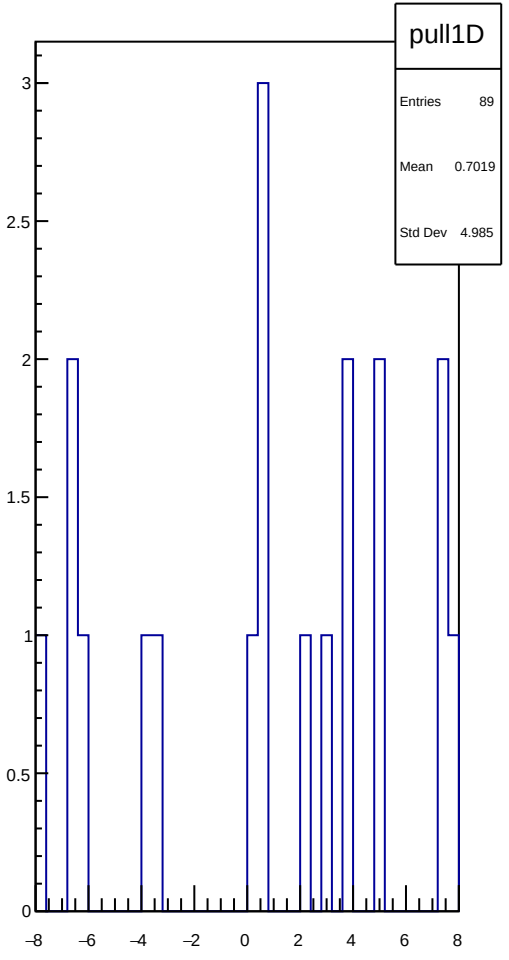

yield_bpm4aX_rms vs run
χ² / ndf 4.766e+04 / 88
p0 0.07589 ± 5.748e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

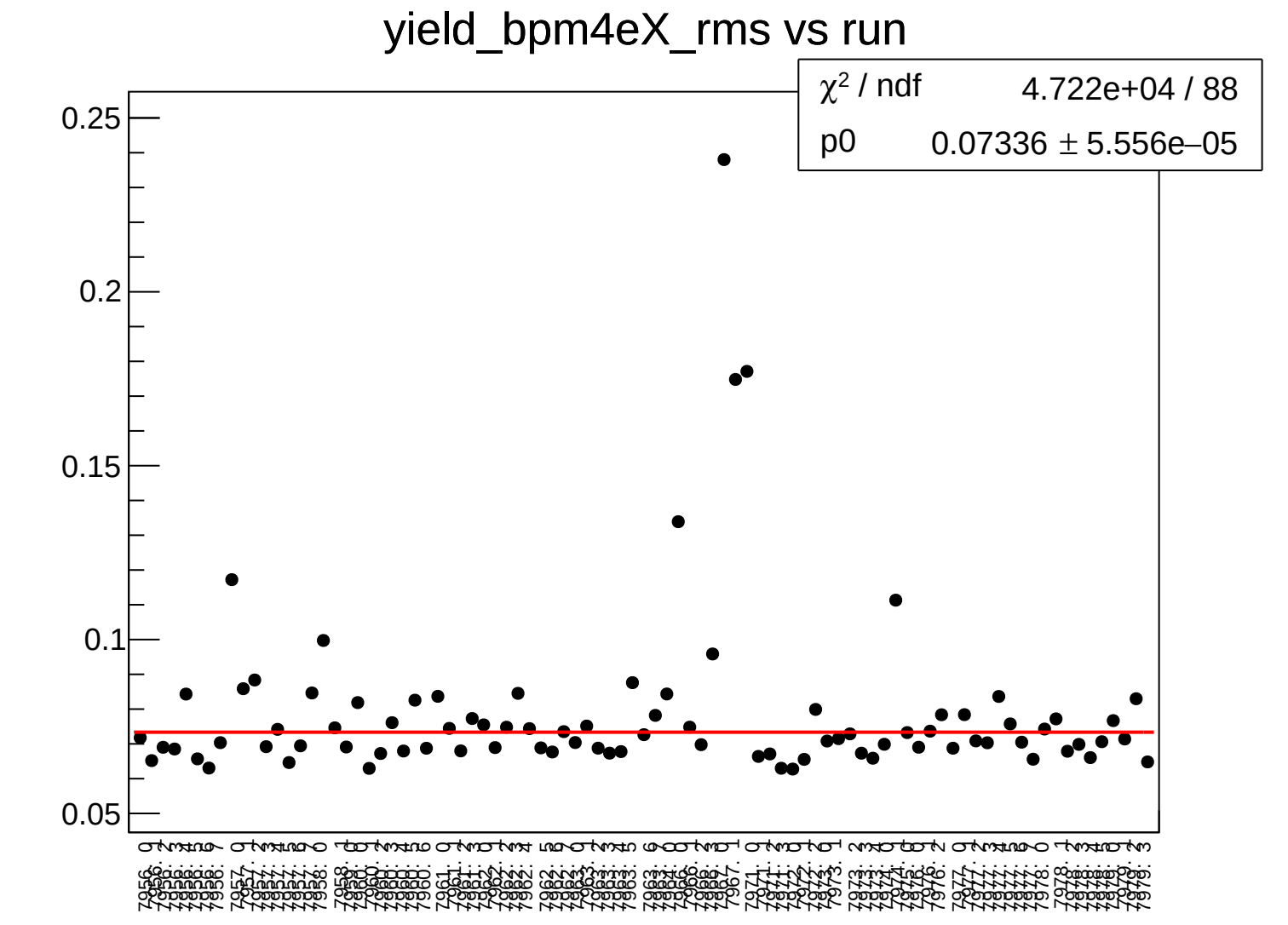

yield_bpm4aY_mean vs run
χ² / ndf 1.144e+05 / 88
p0 0.4801 ± 1.622e−05
0.52
0.5
0.48
0.46
0.44
pull
Entries 89
Mean −1218
Std Dev 0
80
60
40
20
0
−20
−40
−60

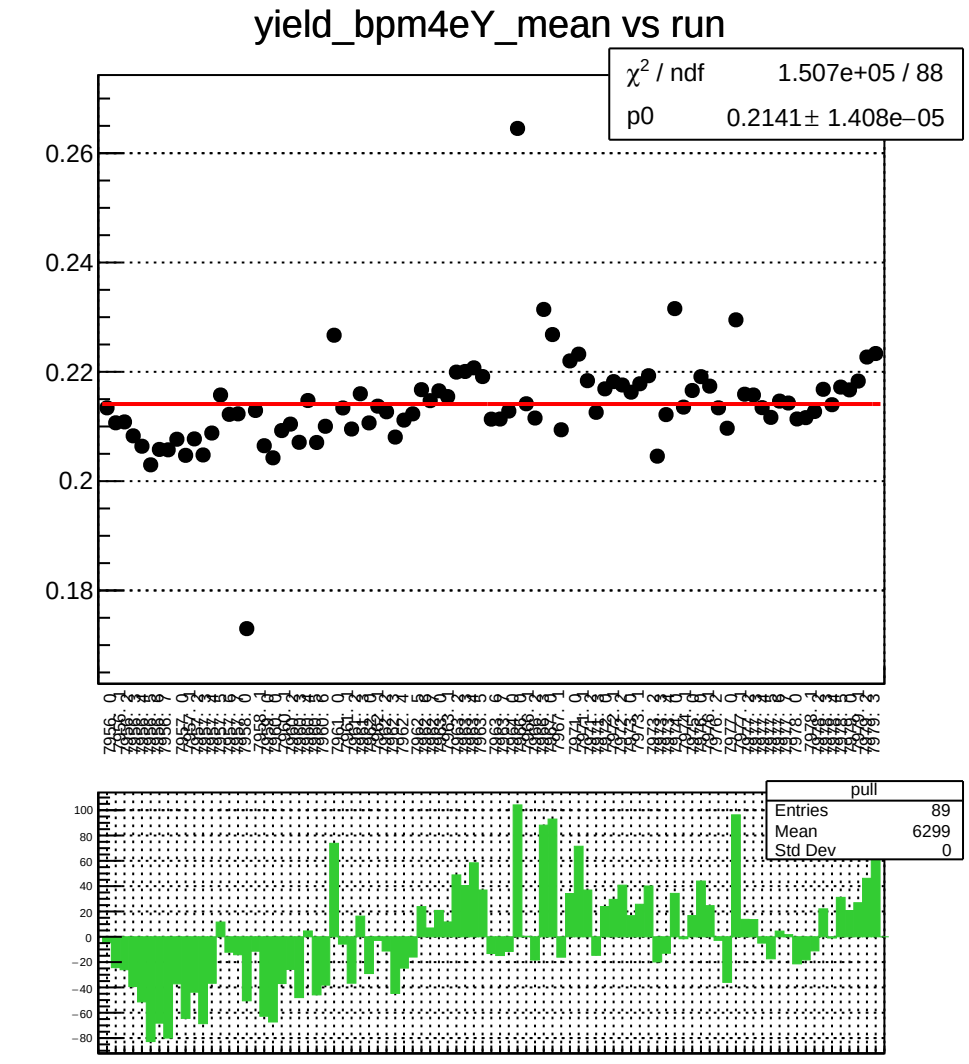

pull1D
Entries 89
Mean −1.588
Std Dev 3.223
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

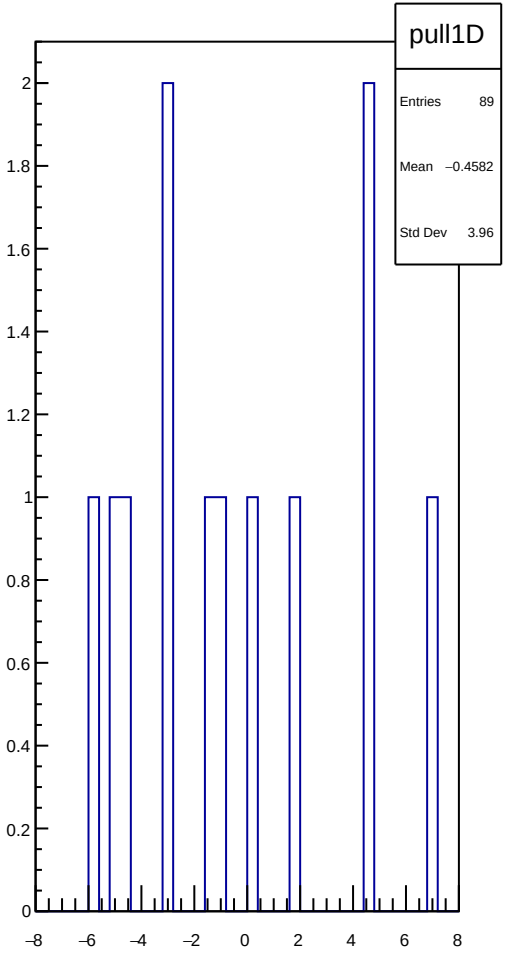

yield_bpm4aY_rms vs run
χ² / ndf 9.791e+04 / 88
p0 0.01492 ± 1.147e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

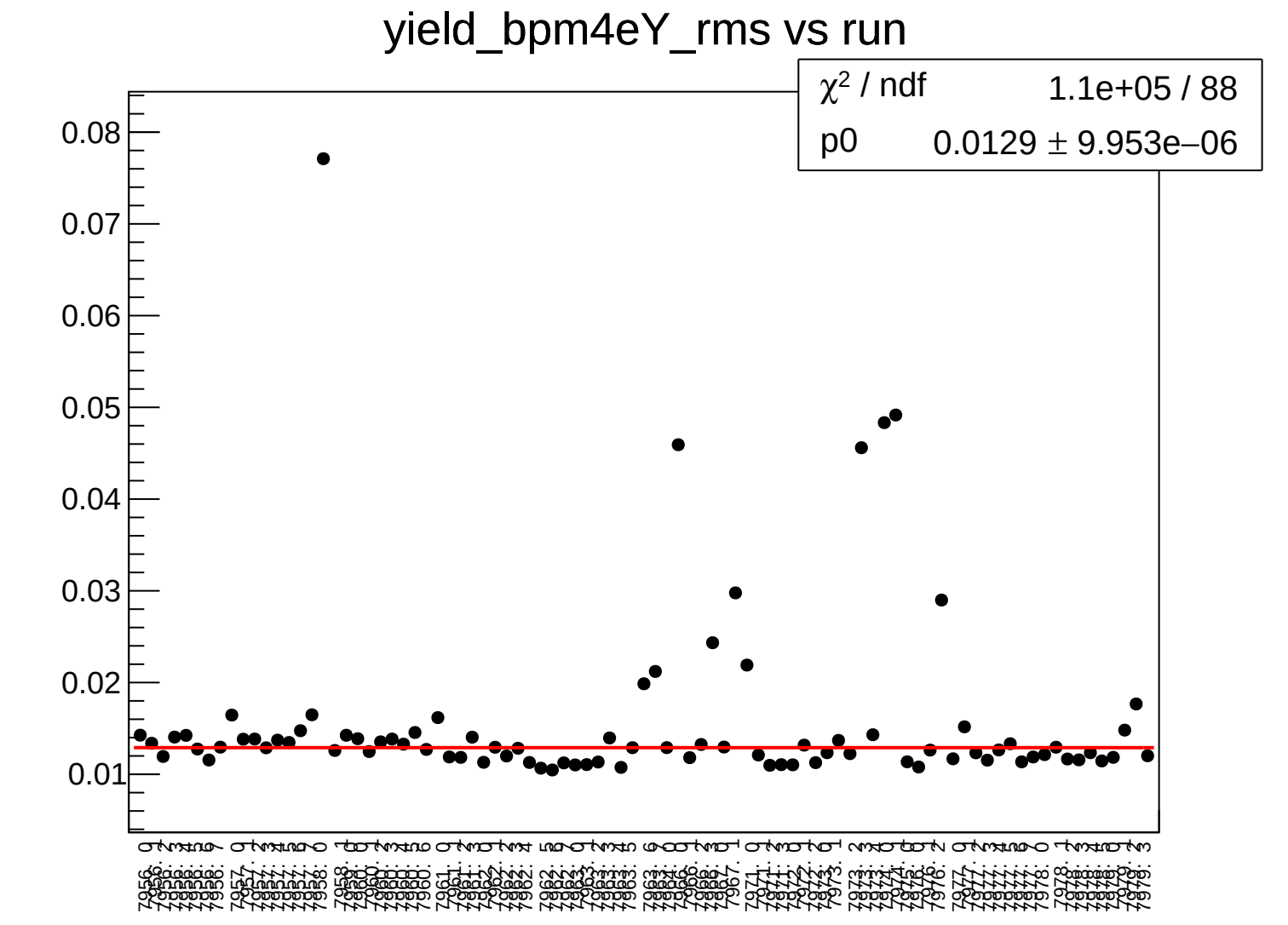

yield_bpm4eX_mean vs run
χ² / ndf 8.428e+04 / 88
p0 −0.1257 ± 7.858e−05
pull
Entries 89
Mean 386.7
Std Dev 0

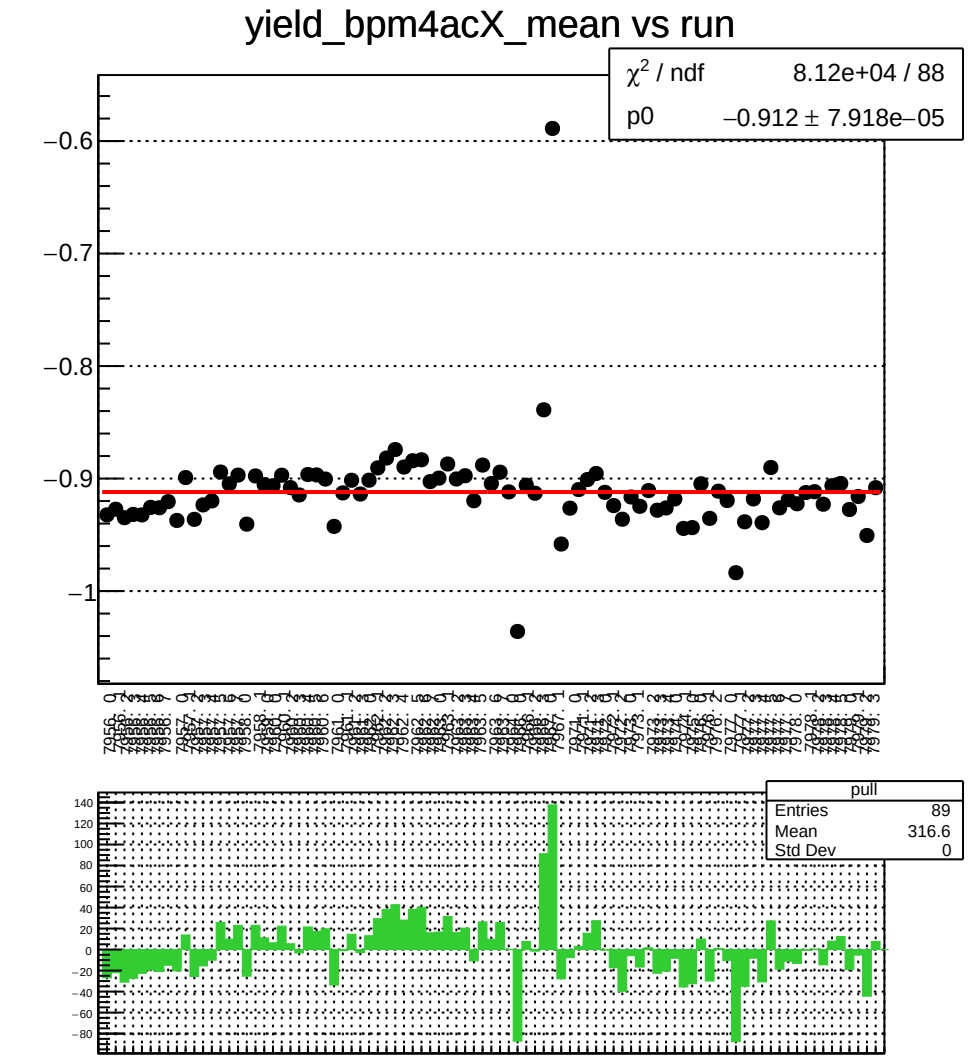

pull1D
Entries 89
Mean 0.7019
Std Dev 4.985

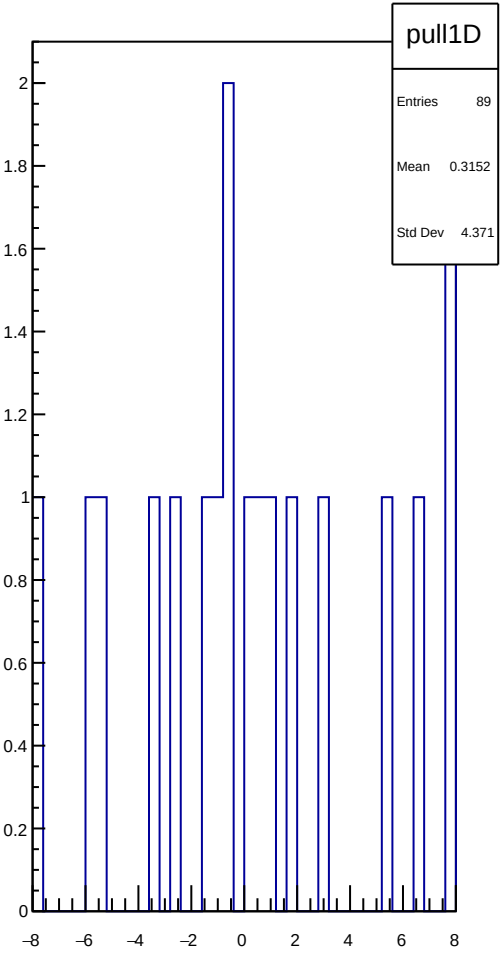

yield_bpm4eX_rms vs run
χ² / ndf 4.722e+04 / 88
p0 0.07336 ± 5.556e–05
0.25
0.2
0.15
0.1
0.05

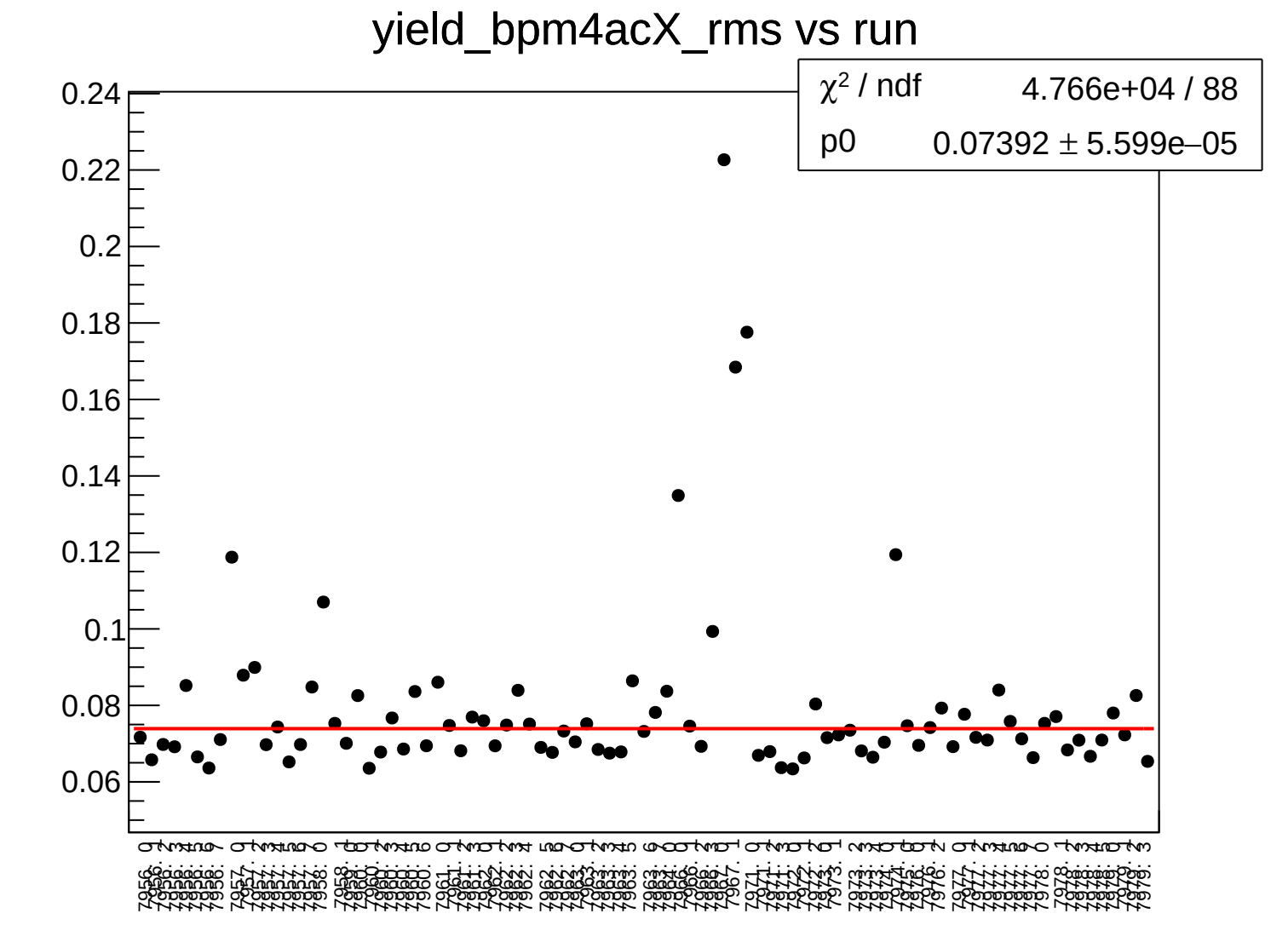

yield_bpm4eY_mean vs run
χ² / ndf 1.507e+05 / 88
p0 0.2141 ± 1.408e−05
0.26
0.24
0.22
0.2
0.18
pull
Entries 89
Mean 6299
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

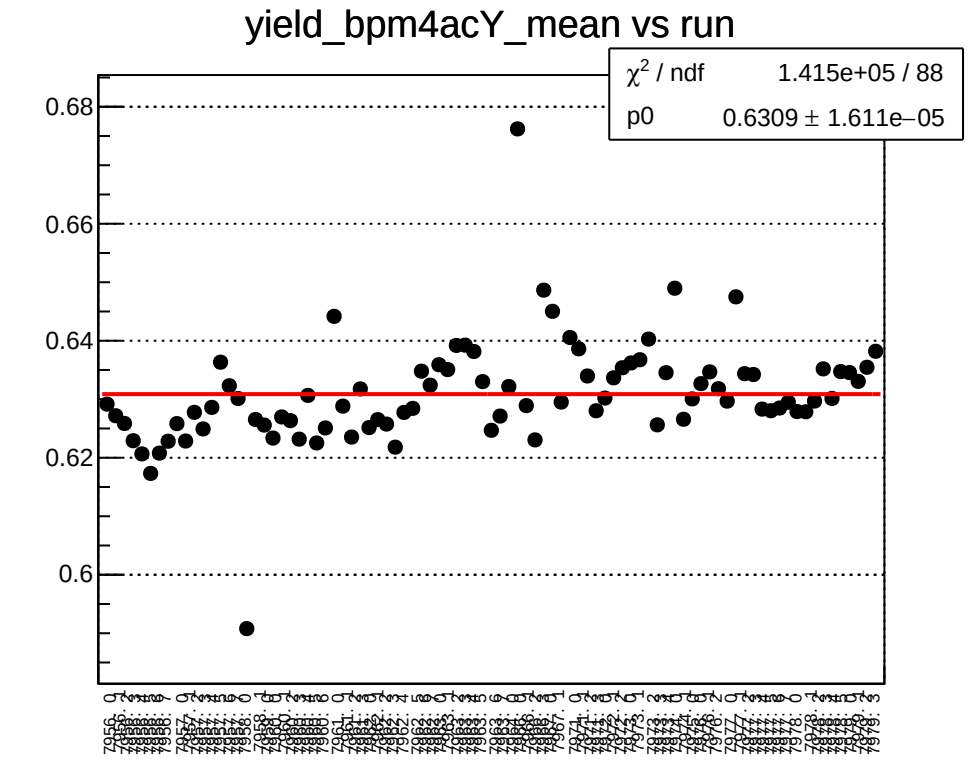

pull1D
Entries 89
Mean −0.4582
Std Dev 3.96
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

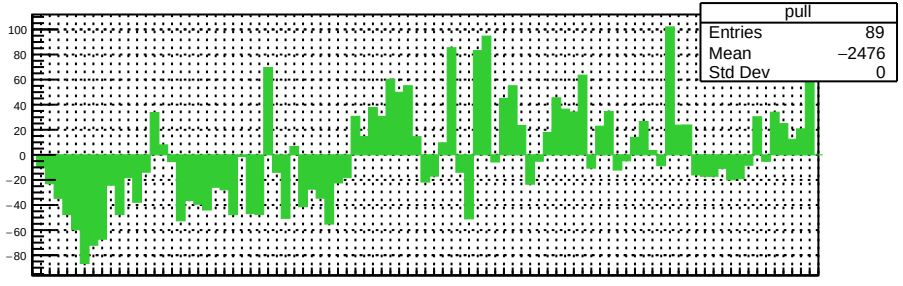

yield_bpm4eY_rms vs run
χ² / ndf 1.1e+05 / 88
p0 0.0129 ± 9.953e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

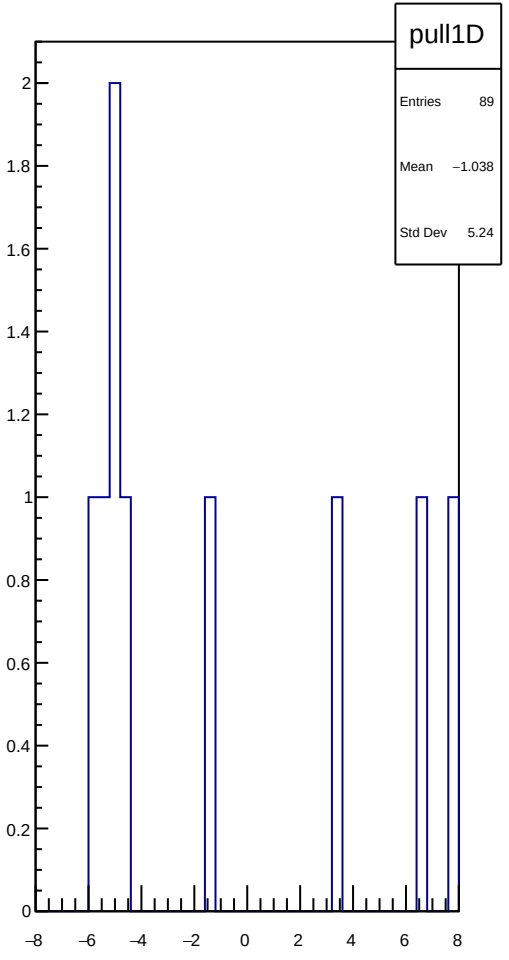

yield_bpm4acX_mean vs run
χ² / ndf 8.12e+04 / 88
p0 −0.912 ± 7.918e−05
−0.6
−0.7
−0.8
−0.9
−1
pull
Entries 89
Mean 316.6
Std Dev 0
140
120
100
80
60
40
20
0
−20
−40
−60
−80

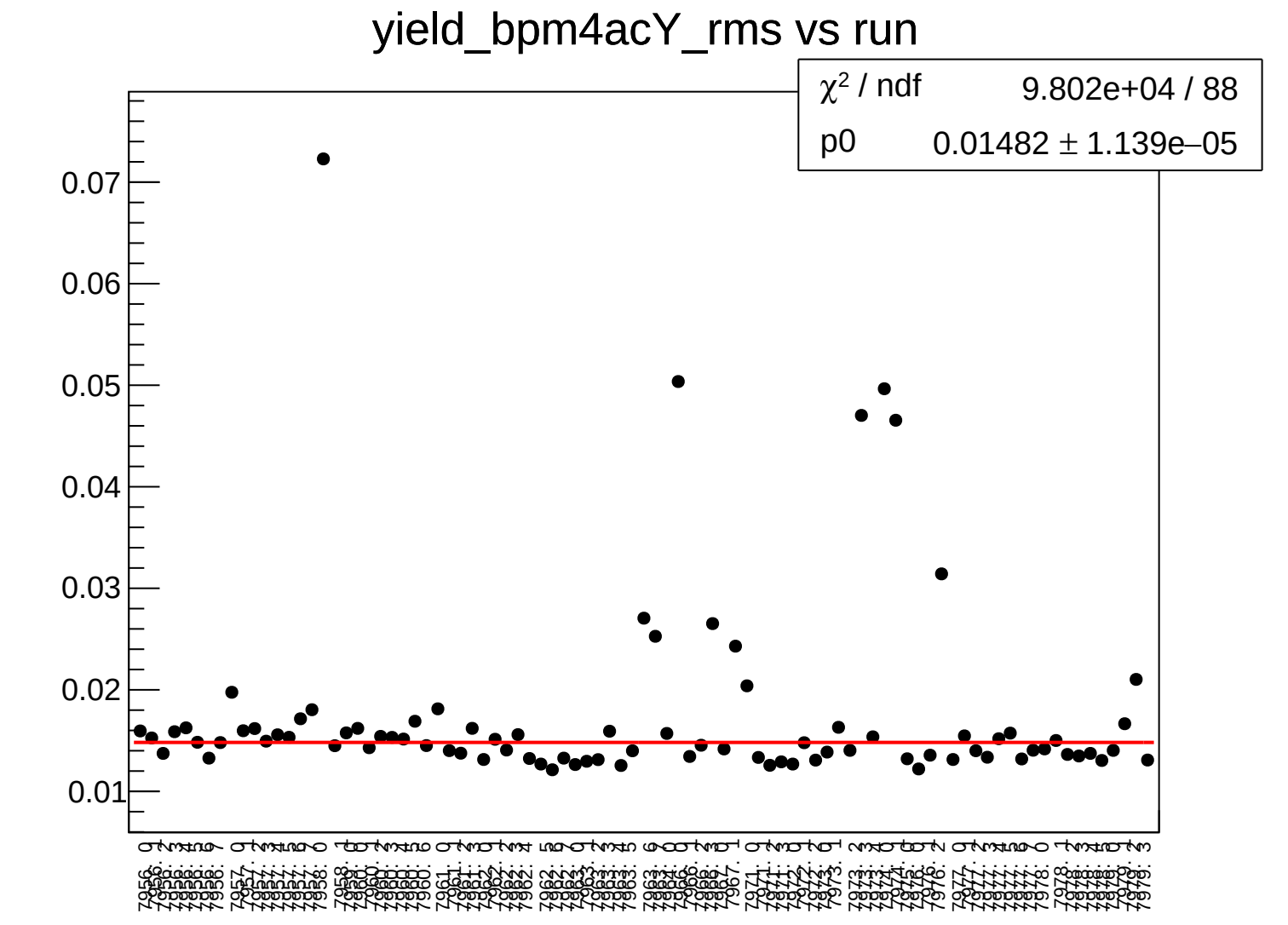

pull1D
Entries 89
Mean 0.3152
Std Dev 4.371
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

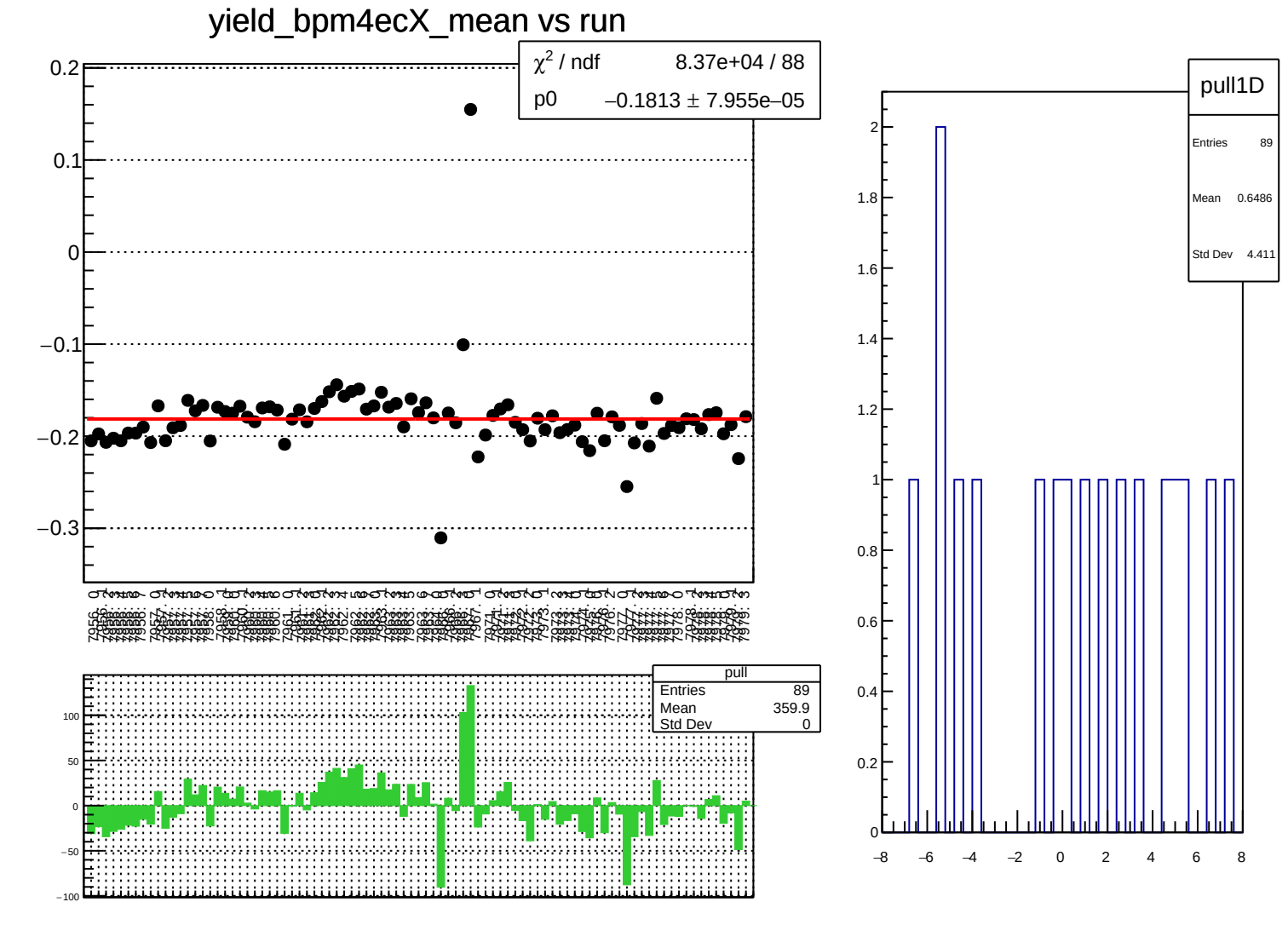

yield_bpm4acX_rms vs run
χ² / ndf 4.766e+04 / 88
p0 0.07392 ± 5.599e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

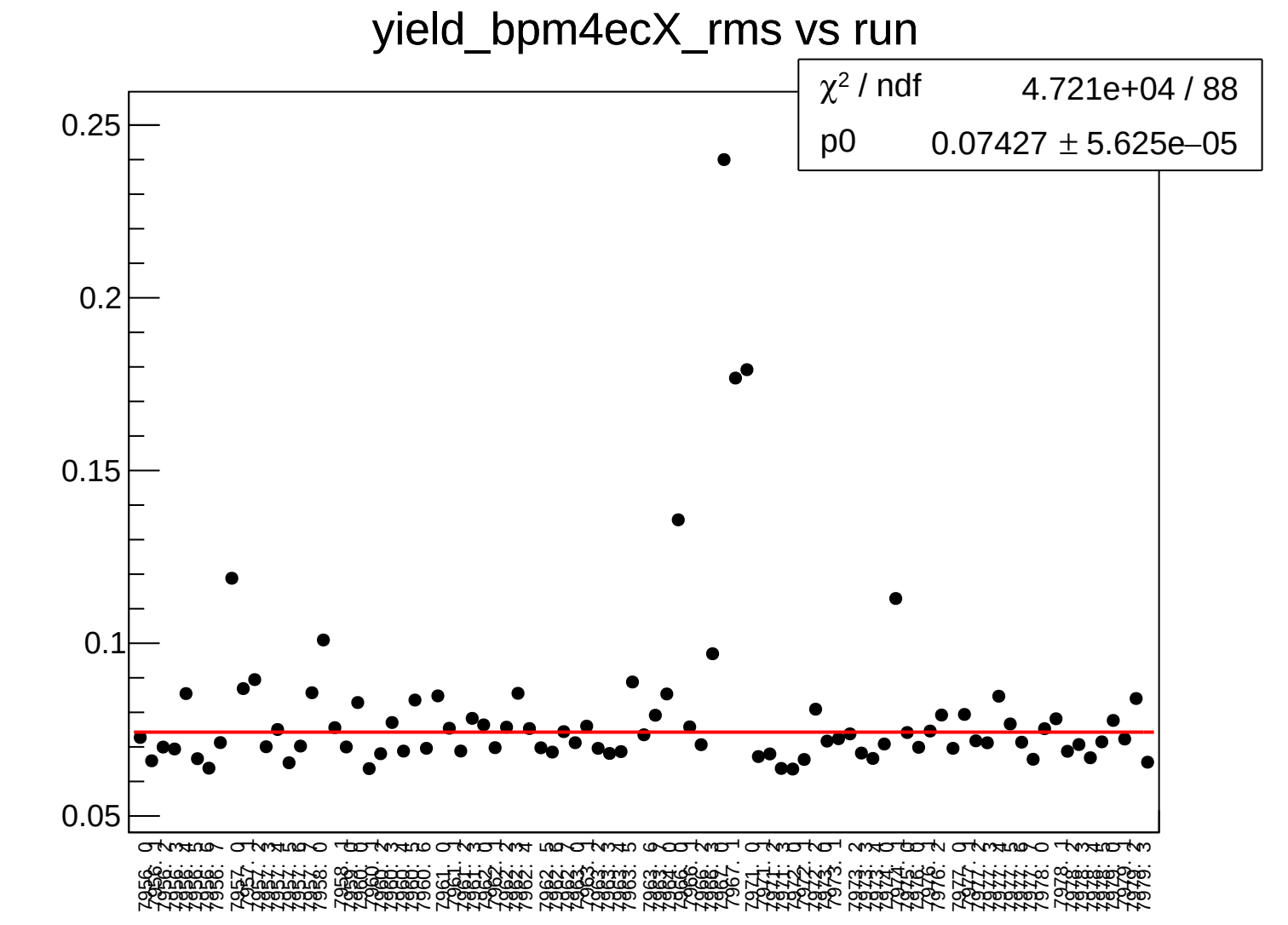

yield_bpm4acY_mean vs run
χ² / ndf 1.415e+05 / 88
p0 0.6309 ± 1.611e−05
0.68
0.66
0.64
0.62
0.6

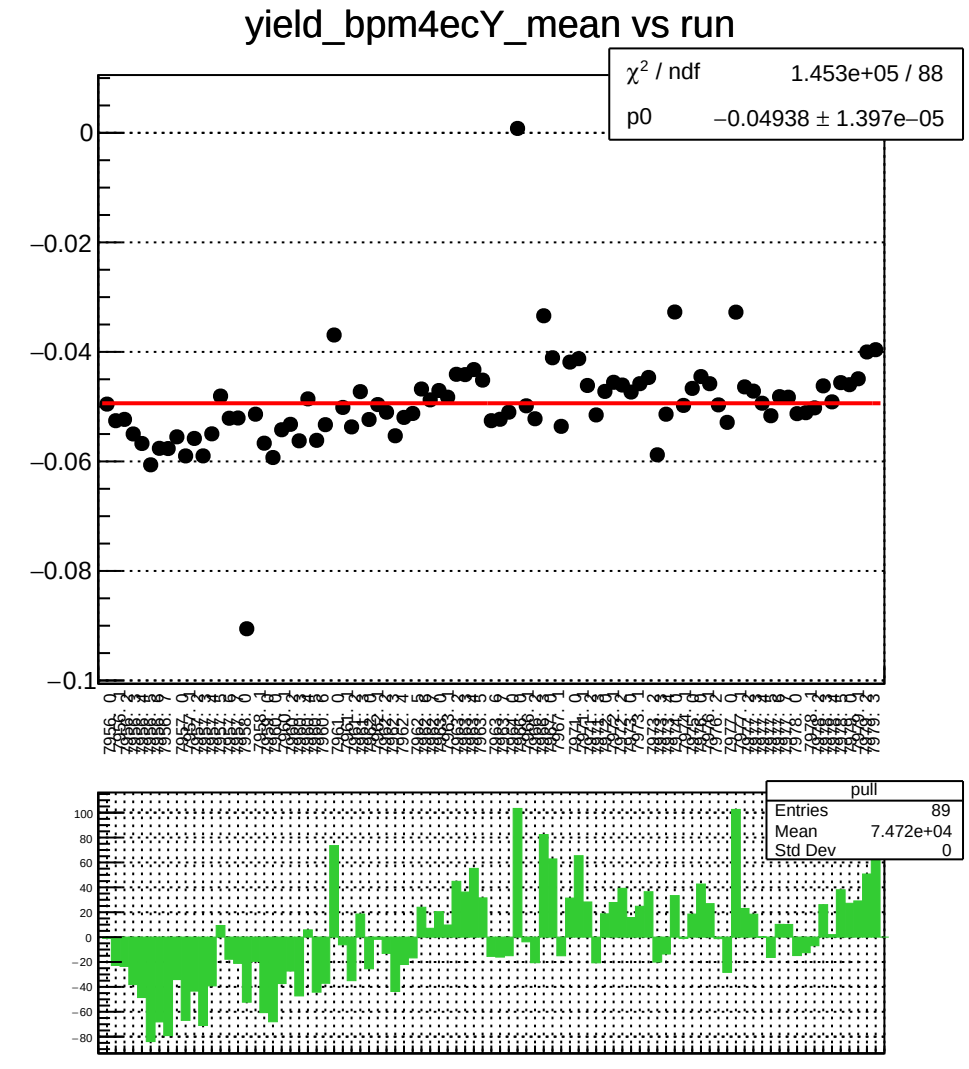

pull
Entries 89
Mean −2476
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

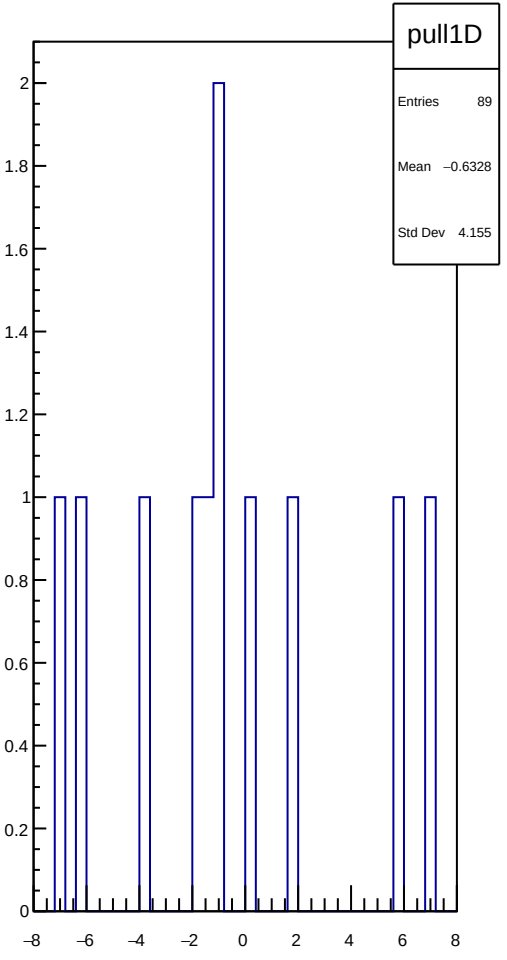

pull1D
Entries 89
Mean −1.038
Std Dev 5.24
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

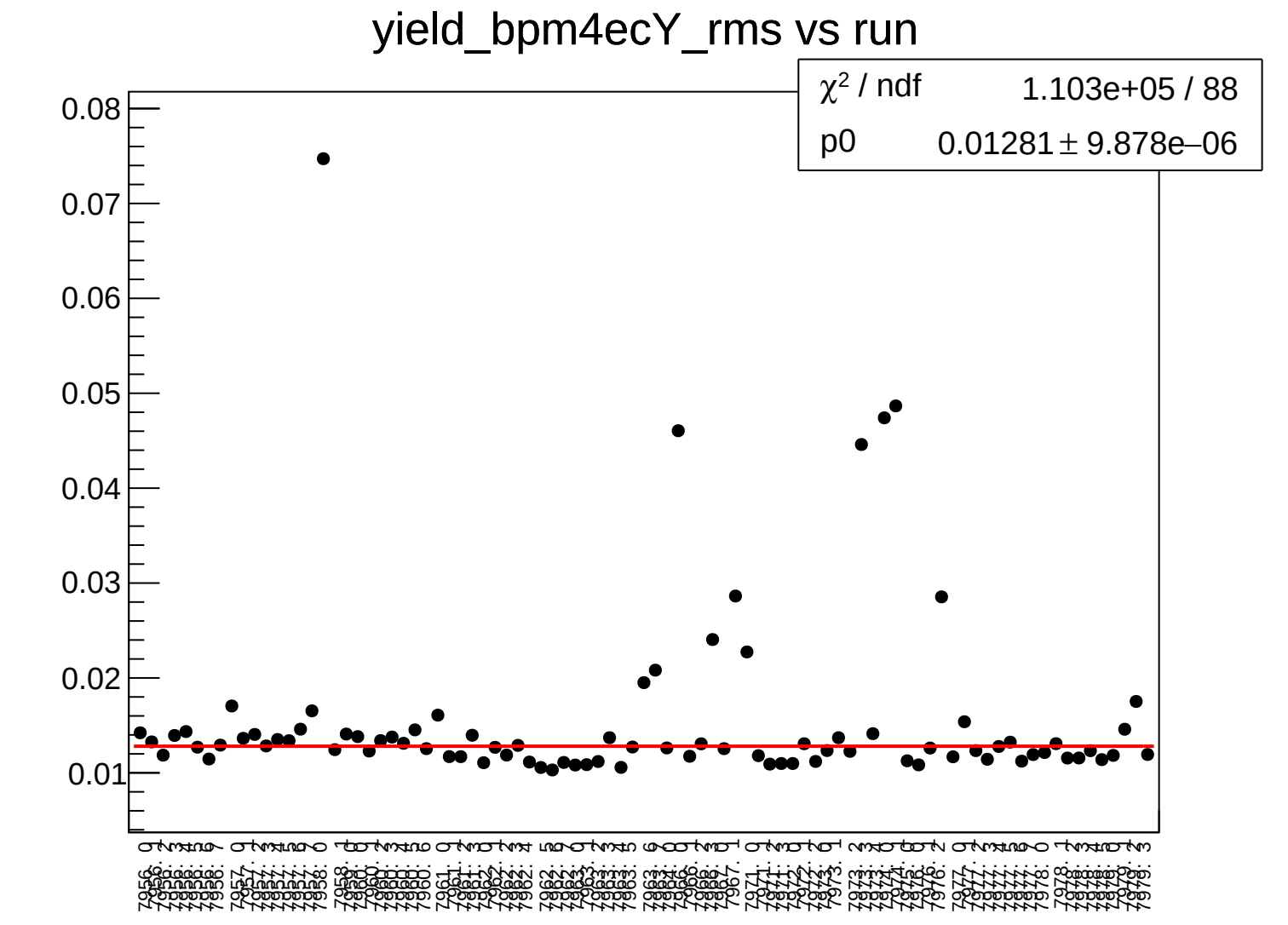

yield_bpm4acY_rms vs run
$\chi^2$ / ndf 9.802e+04 / 88
p0 0.01482 ± 1.139e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

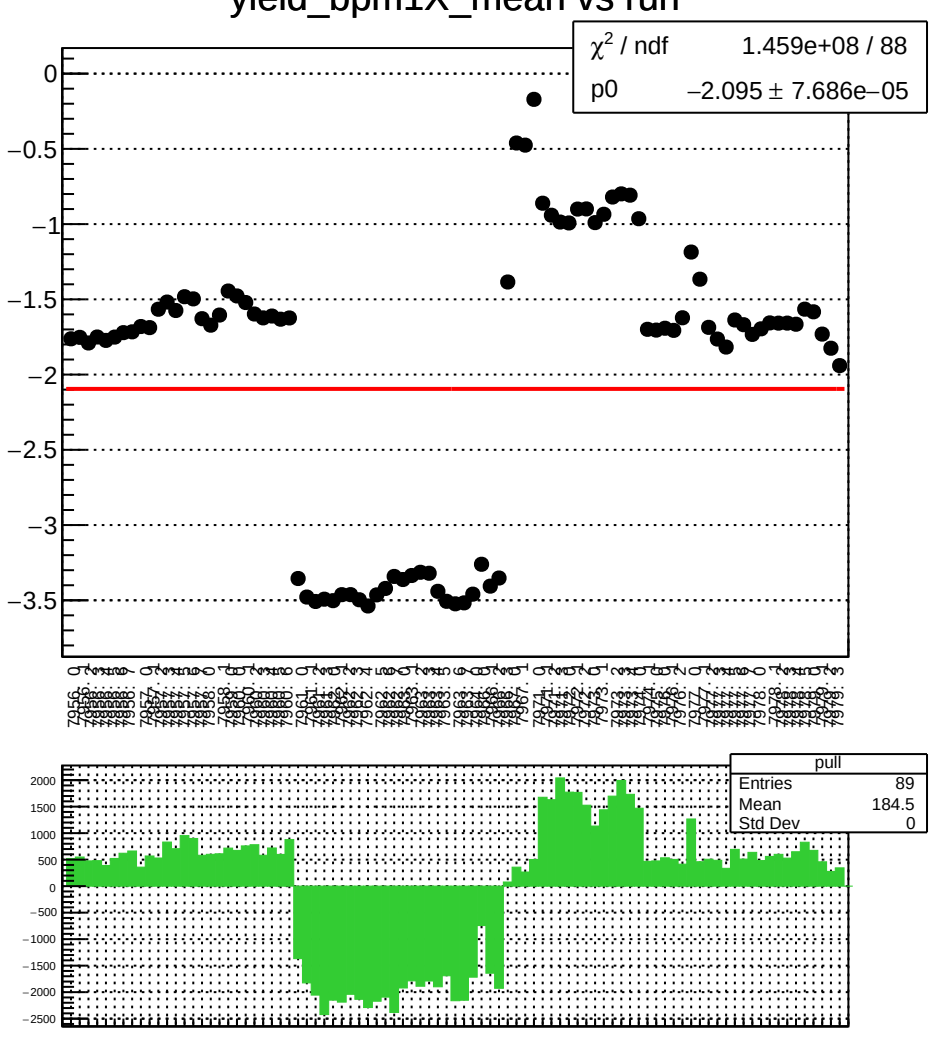

yield_bpm4ecX_mean vs run
χ² / ndf 8.37e+04 / 88
p0 −0.1813 ± 7.955e−05
pull
Entries 89
Mean 359.9
Std Dev 0
pull1D
Entries 89
Mean 0.6486
Std Dev 4.411

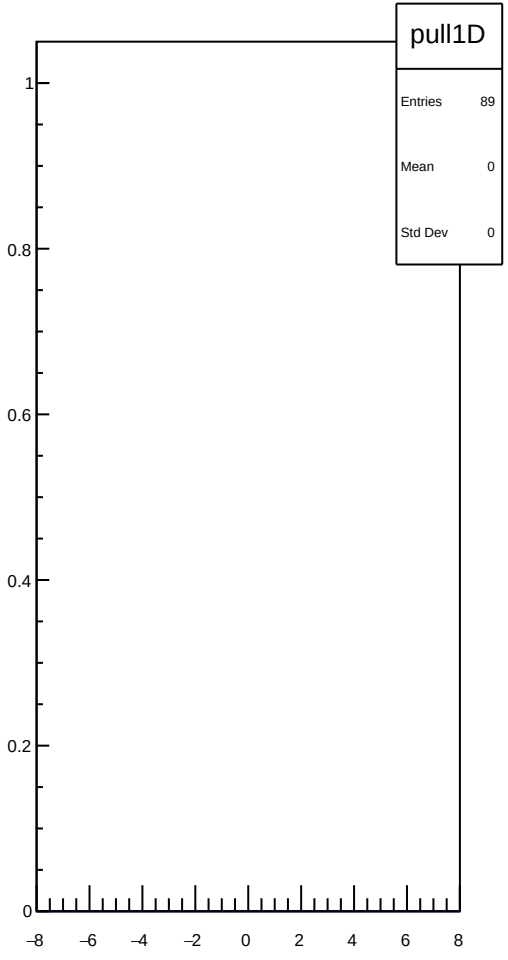

yield_bpm4ecX_rms vs run
χ² / ndf 4.721e+04 / 88
p0 0.07427 ± 5.625e–05
0.25
0.2
0.15
0.1
0.05

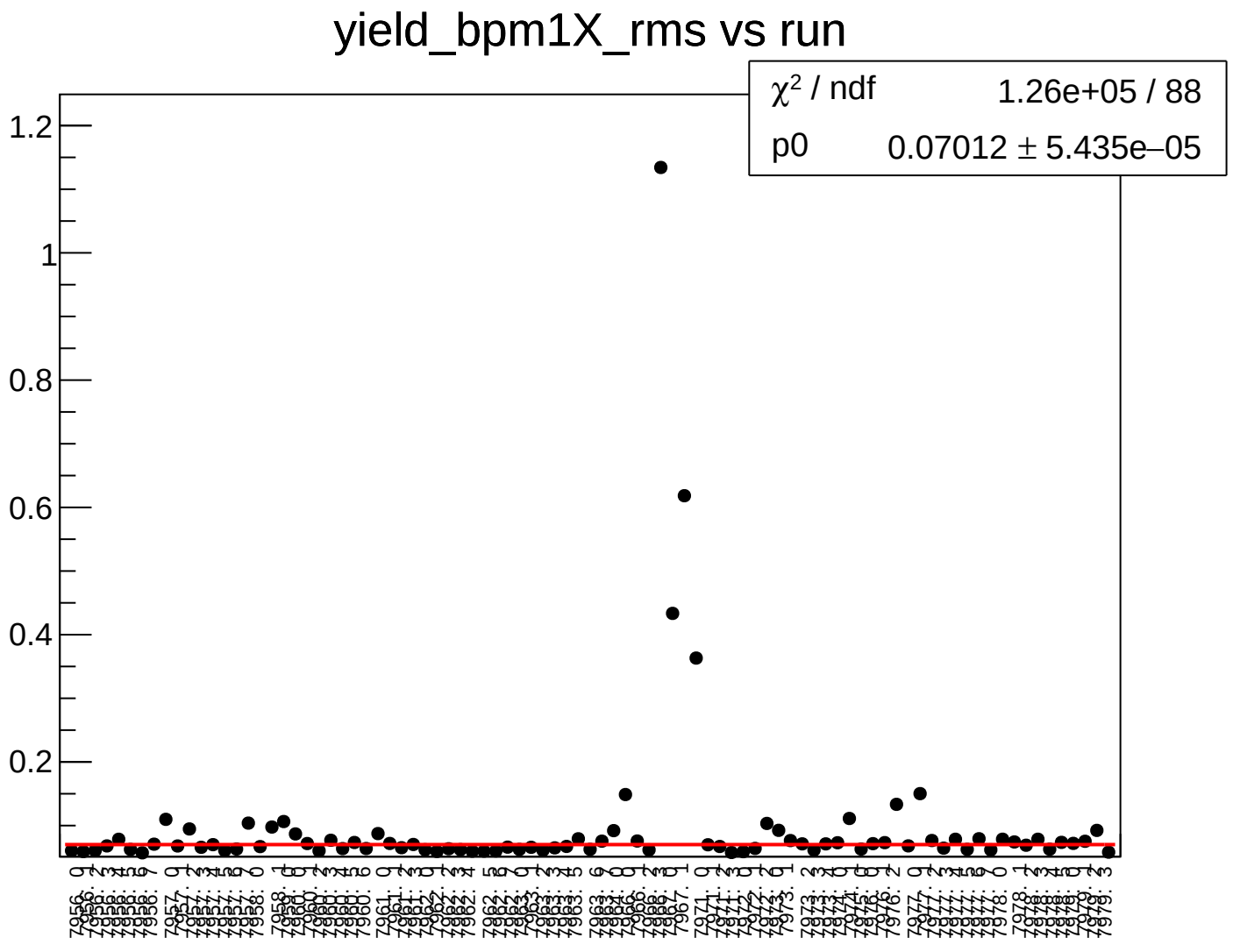

yield_bpm4ecY_mean vs run
χ² / ndf 1.453e+05 / 88
p0 −0.04938 ± 1.397e−05
pull
Entries 89
Mean 7.472e+04
Std Dev 0

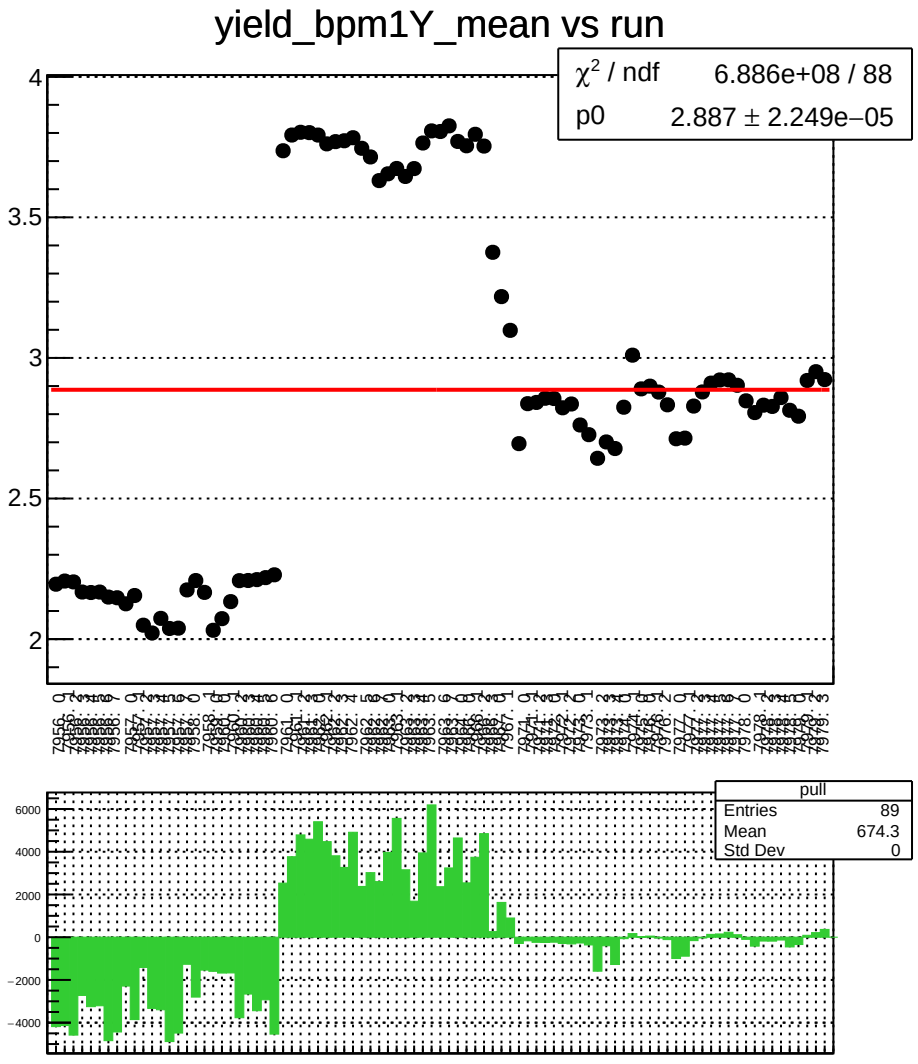

pull1D
Entries 89
Mean −0.6328
Std Dev 4.155

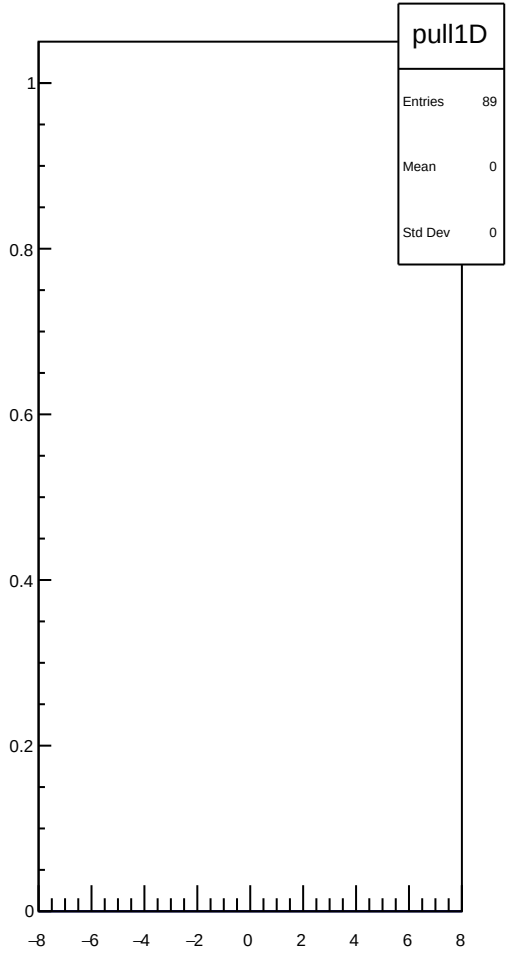

yield_bpm4ecY_rms vs run
χ² / ndf 1.103e+05 / 88
p0 0.01281 ± 9.878e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

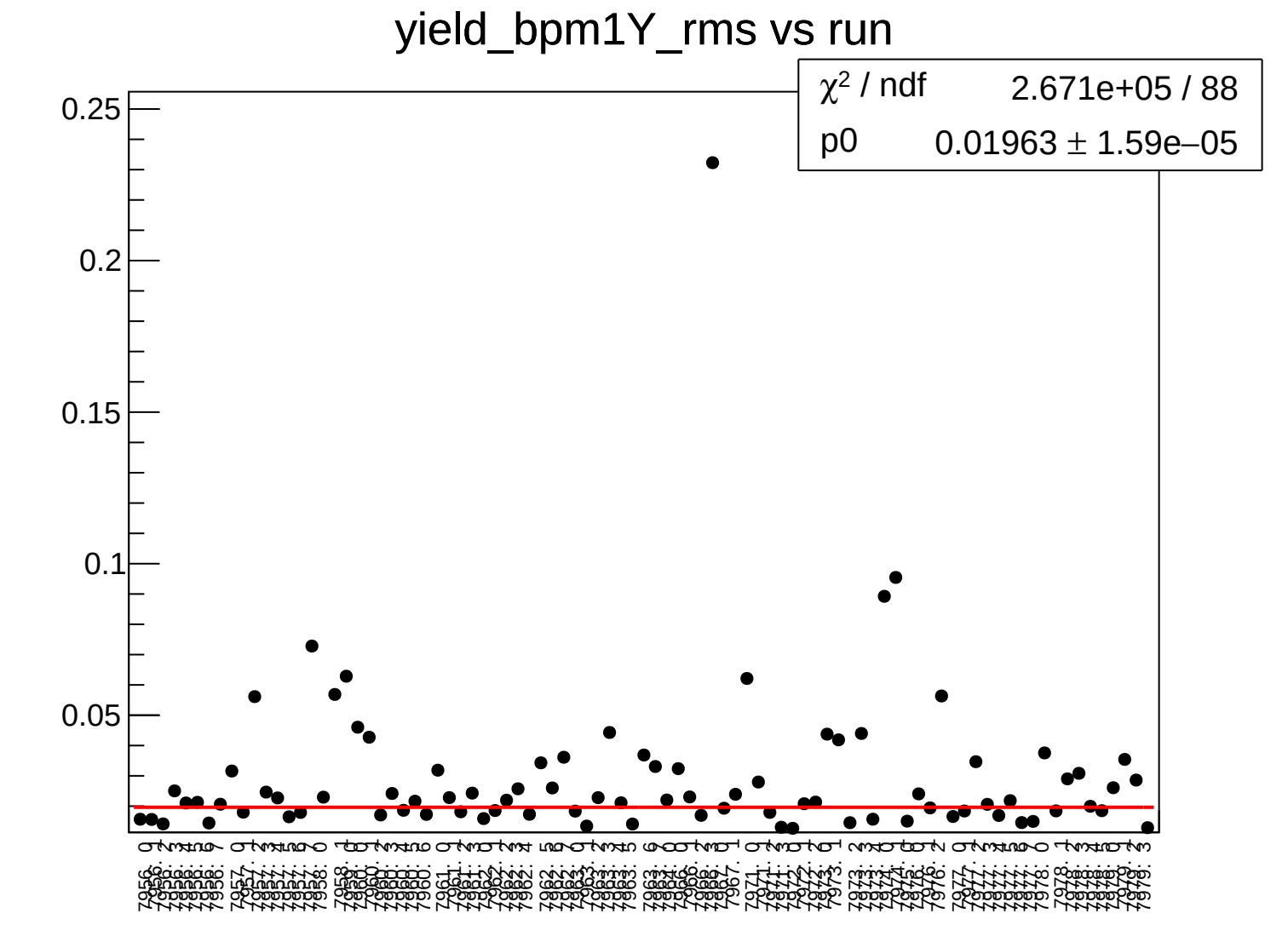

yield_bpm1X_mean vs run
χ² / ndf 1.459e+08 / 88
p0 −2.095 ± 7.686e−05
pull
Entries 89
Mean 184.5
Std Dev 0

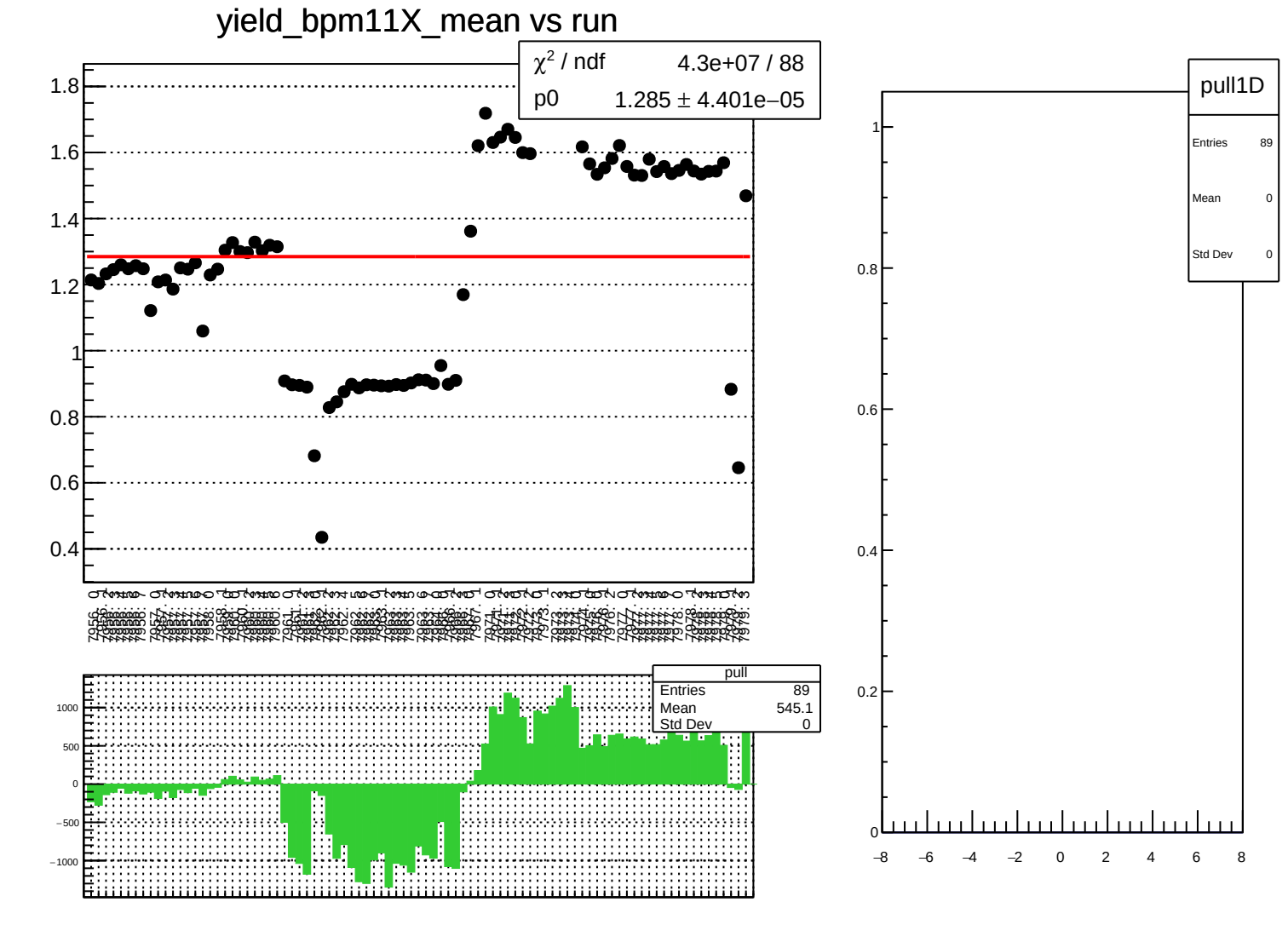

pull1D
Entries 89
Mean 0
Std Dev 0

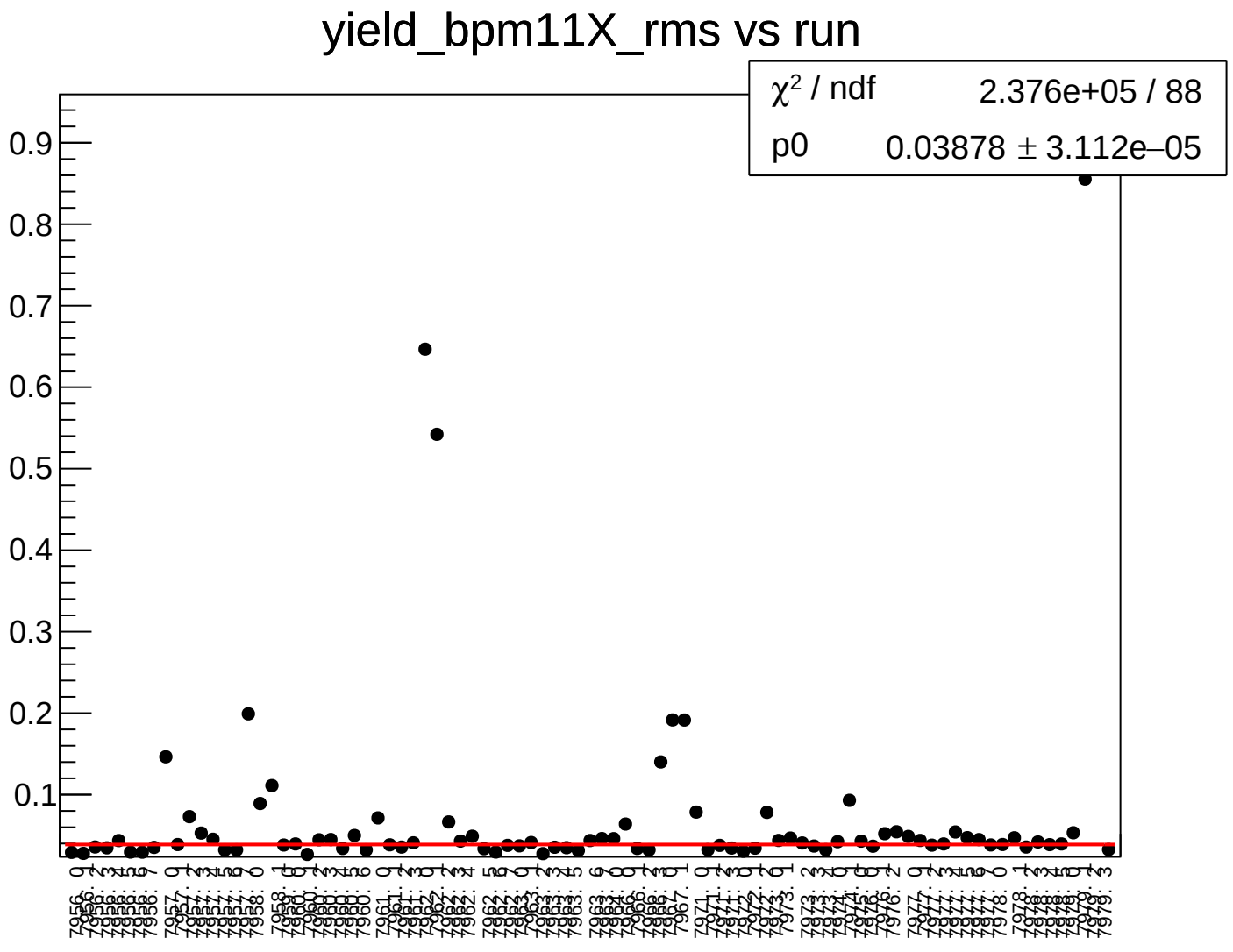

yield_bpm1X_rms vs run
χ² / ndf 1.26e+05 / 88
p0 0.07012 ± 5.435e−05
1.2
1
0.8
0.6
0.4
0.2

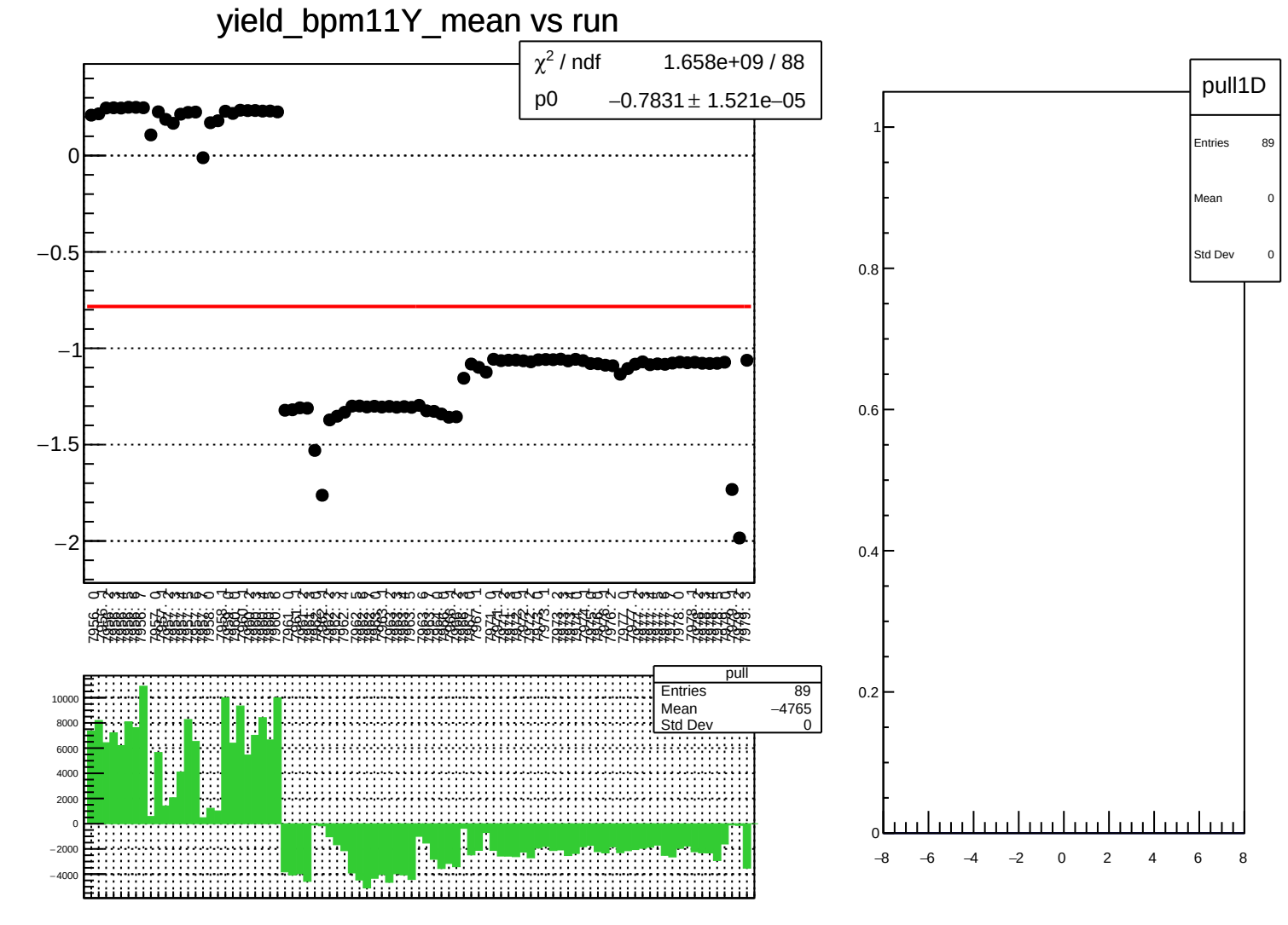

yield_bpm1Y_mean vs run
χ² / ndf 6.886e+08 / 88
p0 2.887 ± 2.249e−05
pull
Entries 89
Mean 674.3
Std Dev 0

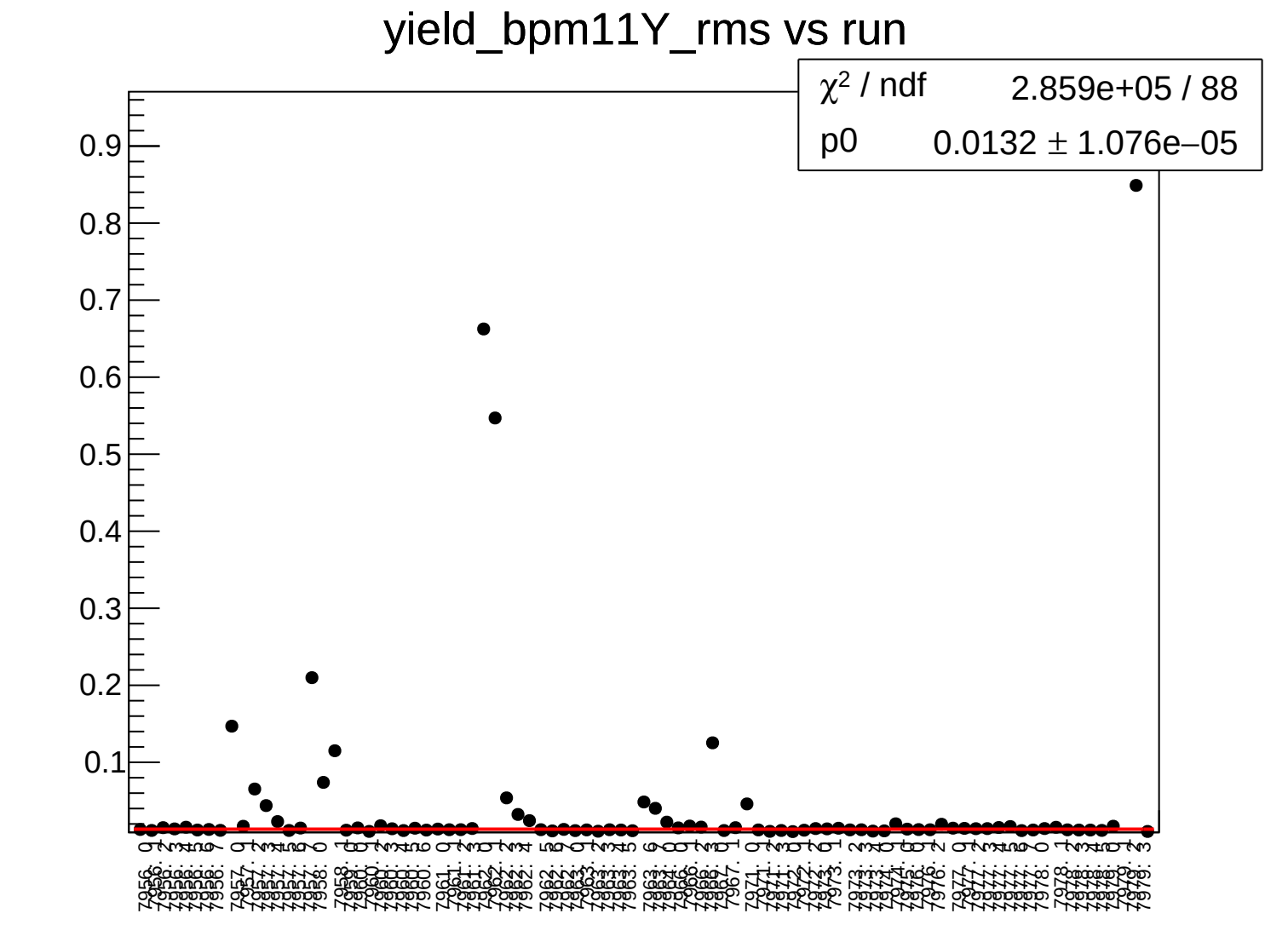

pull1D
Entries 89
Mean 0
Std Dev 0

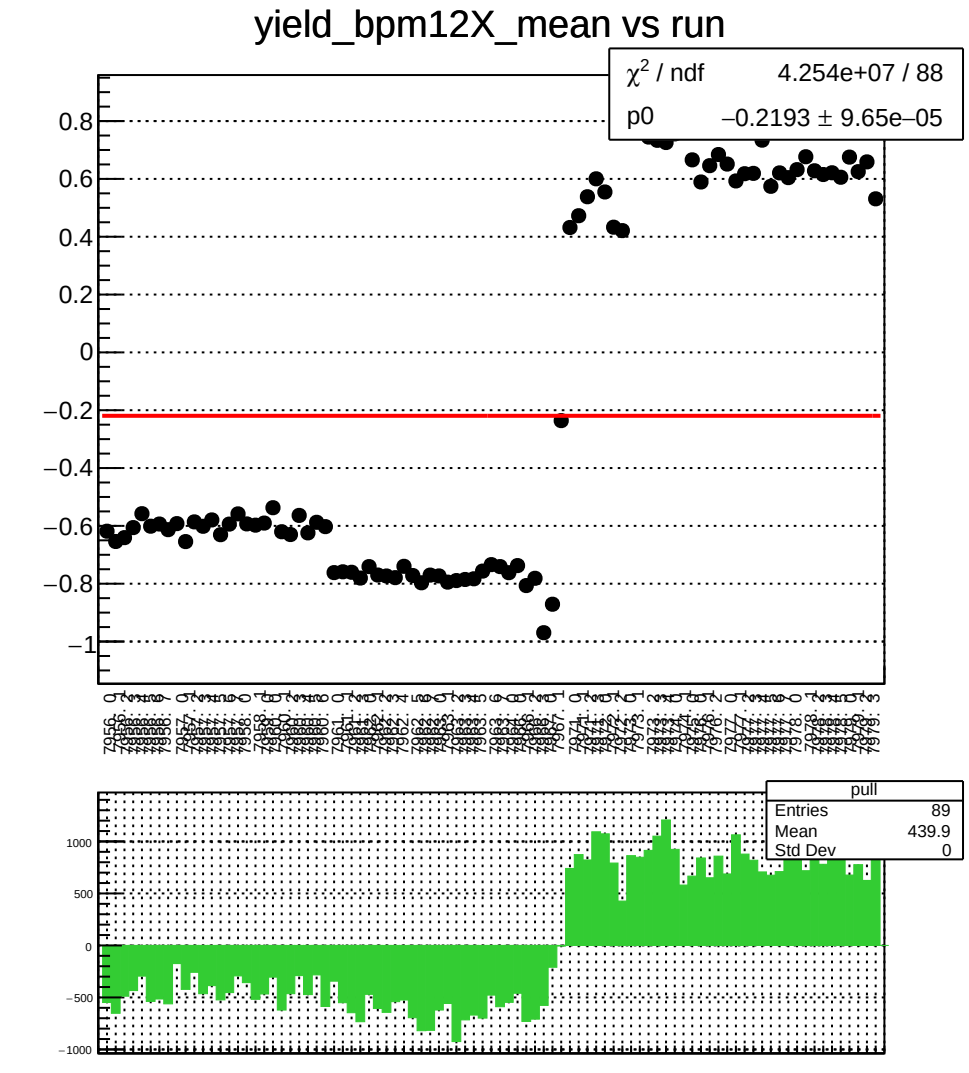

yield_bpm1Y_rms vs run
χ² / ndf 2.671e+05 / 88
p0 0.01963 ± 1.59e−05
0.25
0.2
0.15
0.1
0.05

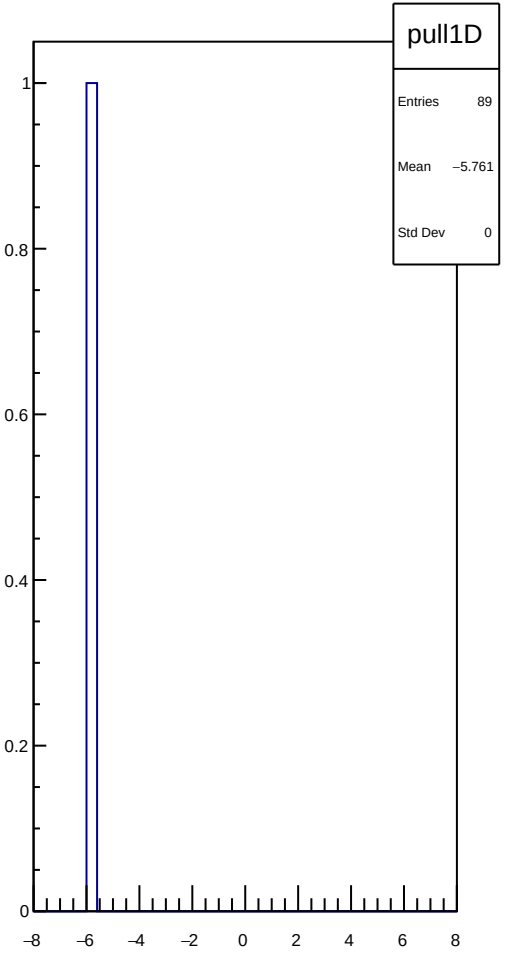

yield_bpm11X_mean vs run
χ² / ndf 4.3e+07 / 88
p0 1.285 ± 4.401e−05
pull
Entries 89
Mean 545.1
Std Dev 0
pull1D
Entries 89
Mean 0
Std Dev 0

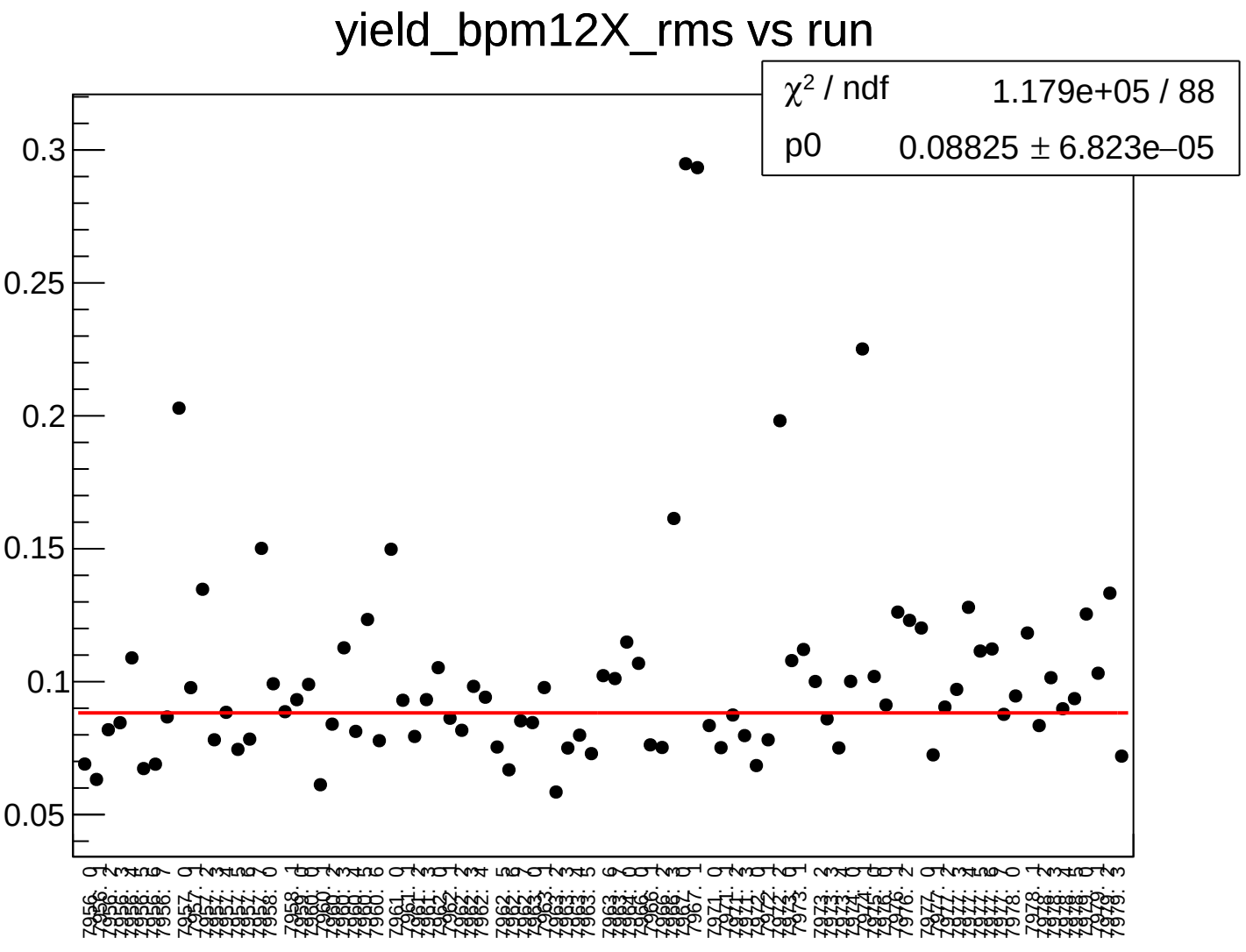

yield_bpm11X_rms vs run
χ² / ndf 2.376e+05 / 88
p0 0.03878 ± 3.112e–05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

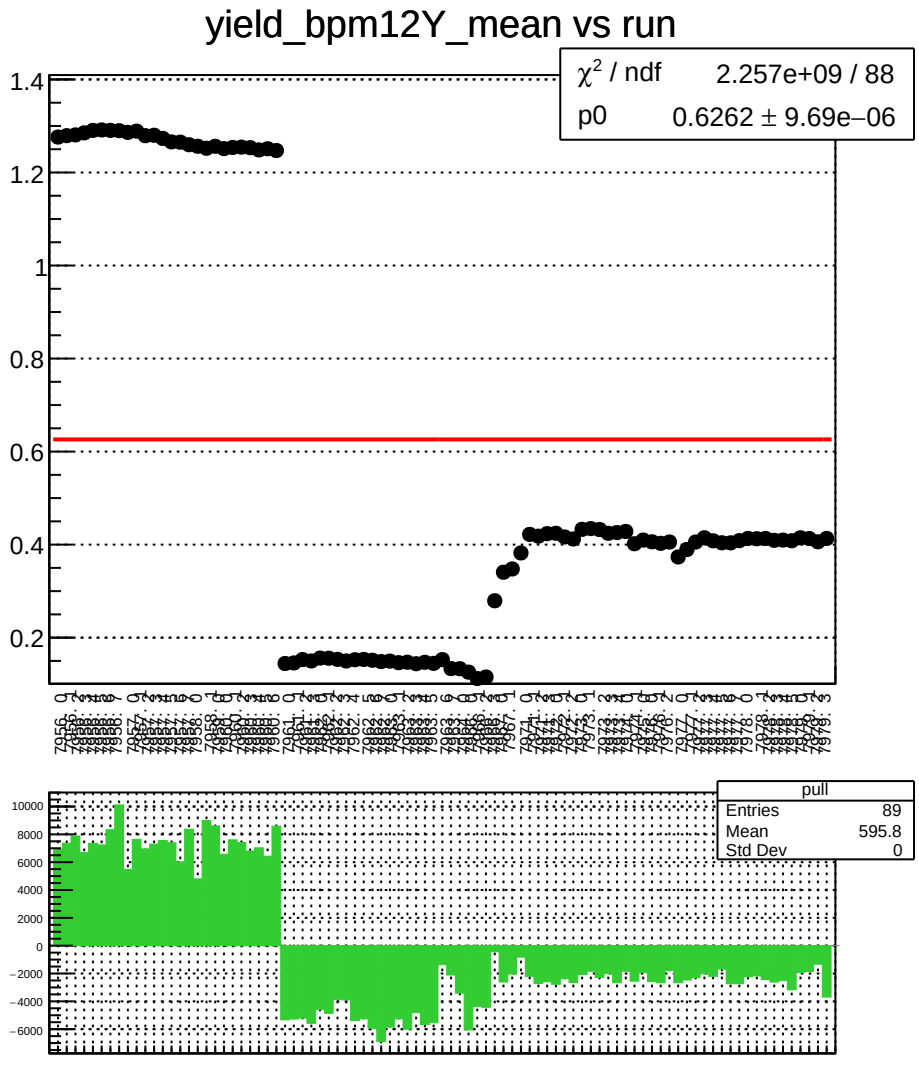

yield_bpm11Y_mean vs run
χ² / ndf 1.658e+09 / 88
p0 −0.7831 ± 1.521e−05
pull
Entries 89
Mean −4765
Std Dev 0
pull1D
Entries 89
Mean 0
Std Dev 0

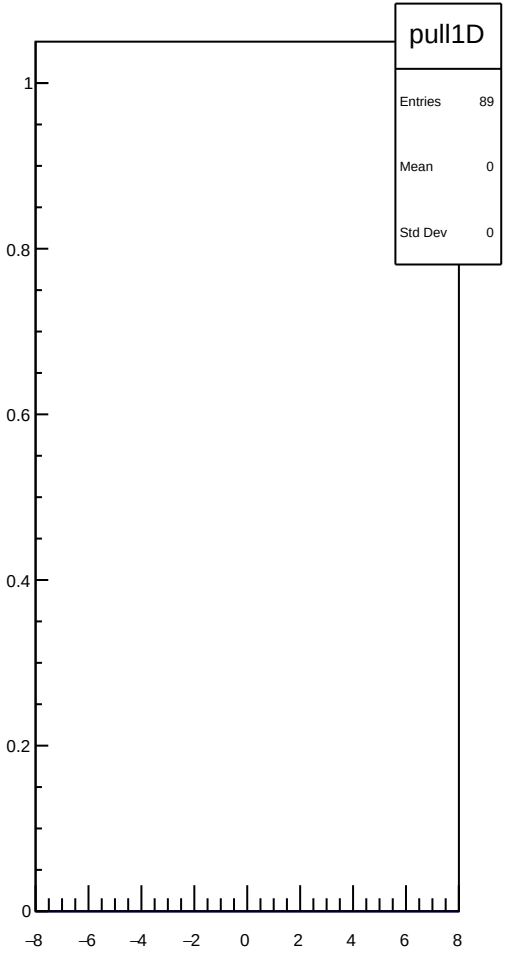

yield_bpm11Y_rms vs run
χ² / ndf 2.859e+05 / 88
p0 0.0132 ± 1.076e−05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

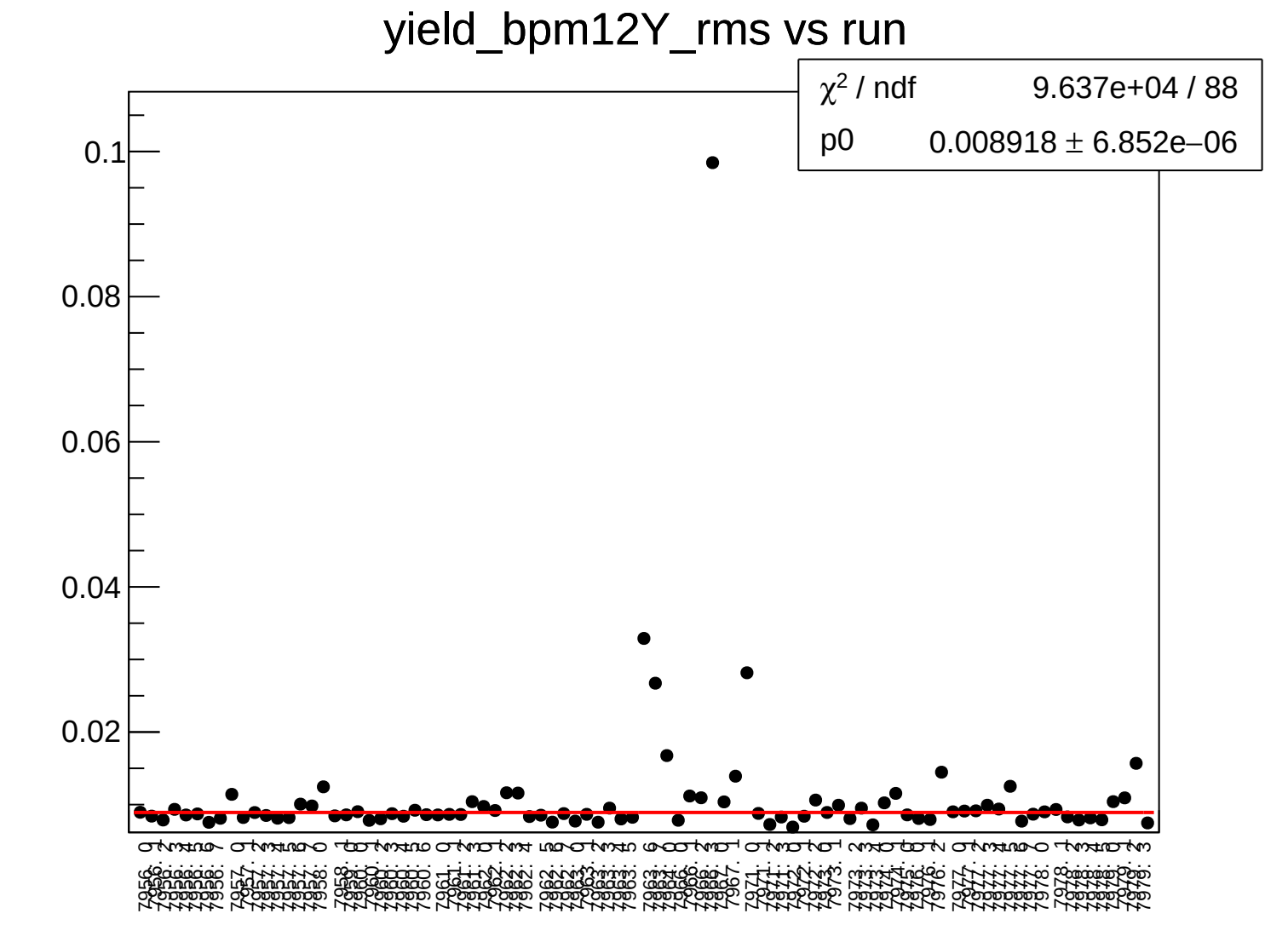

yield_bpm12X_mean vs run
χ² / ndf 4.254e+07 / 88
p0 −0.2193 ± 9.65e−05
pull
Entries 89
Mean 439.9
Std Dev 0

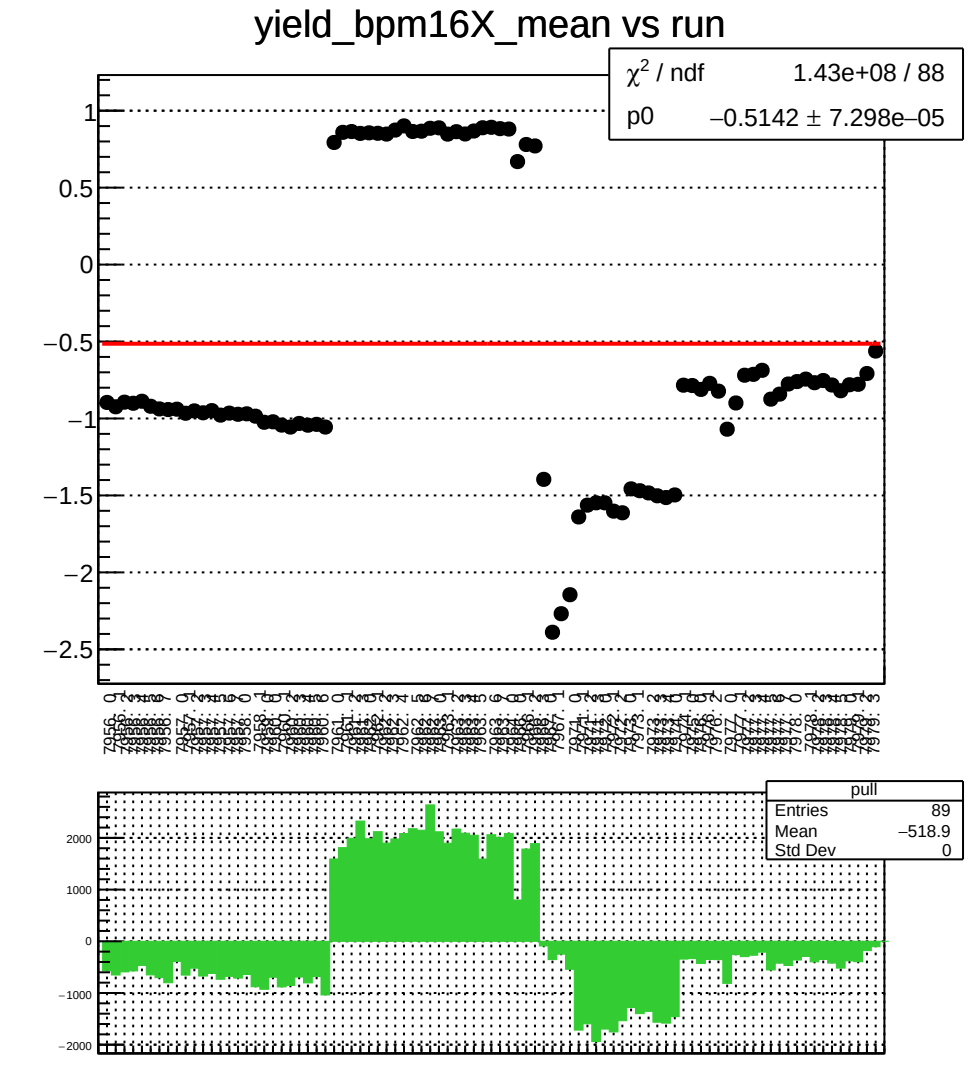

pull1D
Entries 89
Mean −5.761
Std Dev 0

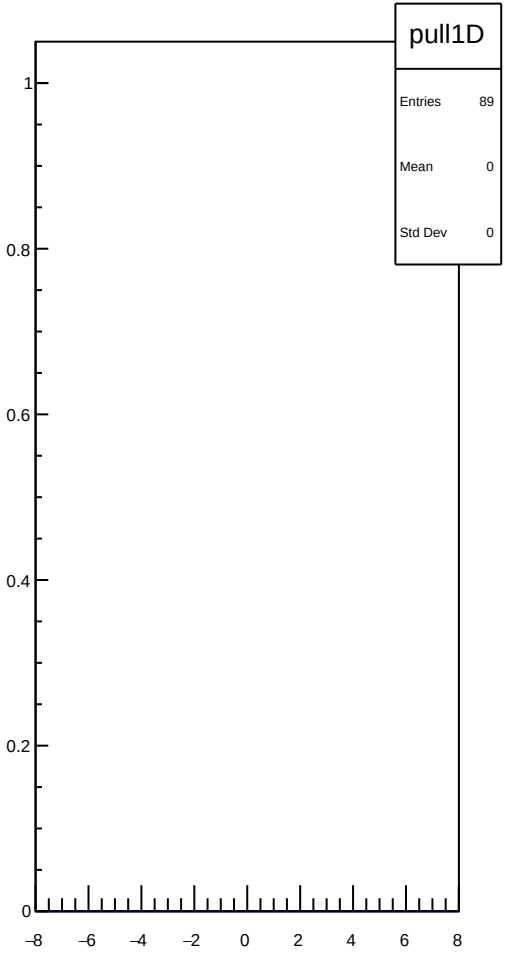

yield_bpm12X_rms vs run
χ² / ndf 1.179e+05 / 88
p0 0.08825 ± 6.823e−05
0.3
0.25
0.2
0.15
0.1
0.05

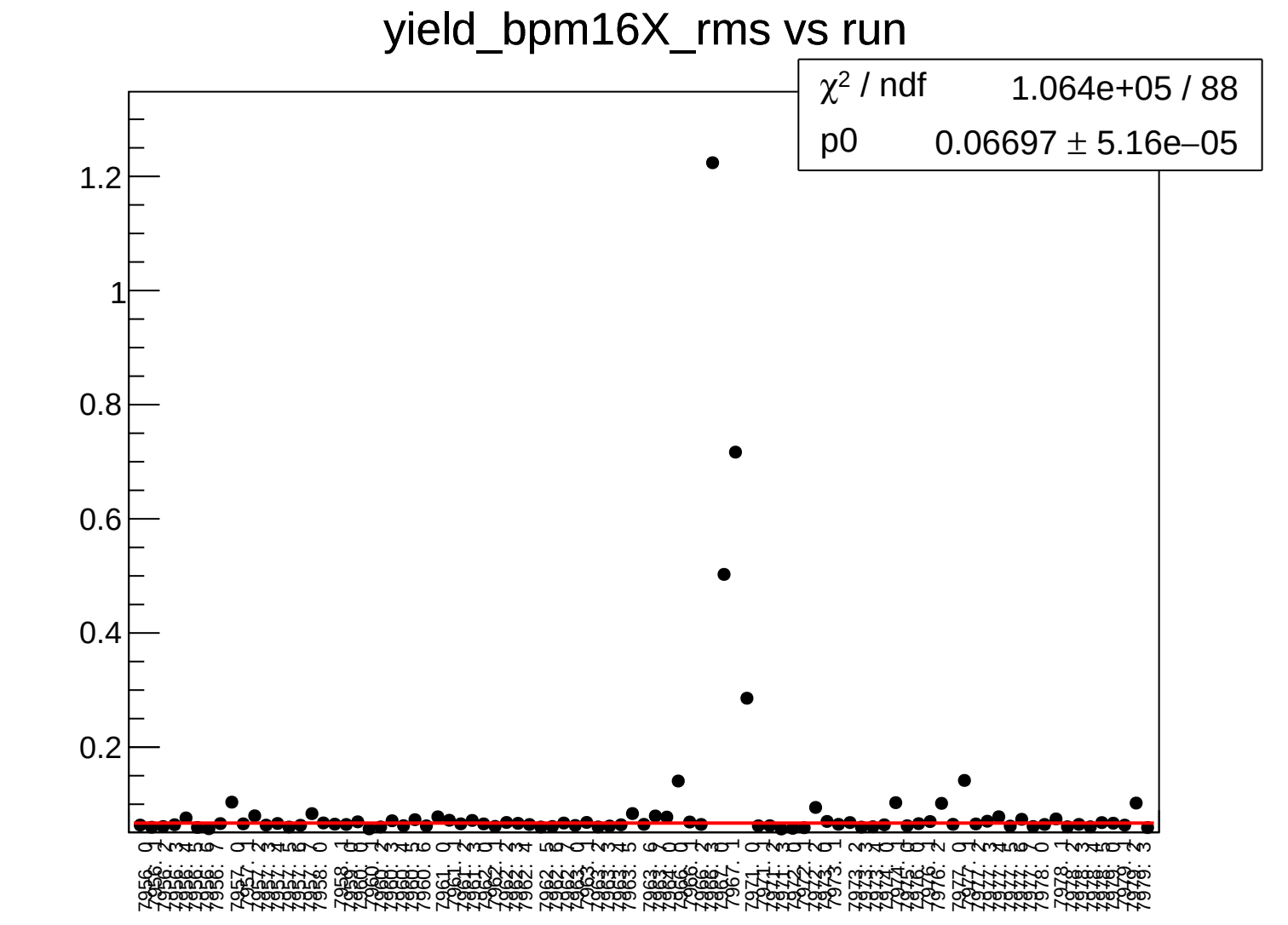

yield_bpm12Y_mean vs run
χ² / ndf 2.257e+09 / 88
p0 0.6262 ± 9.69e−06
pull
Entries 89
Mean 595.8
Std Dev 0

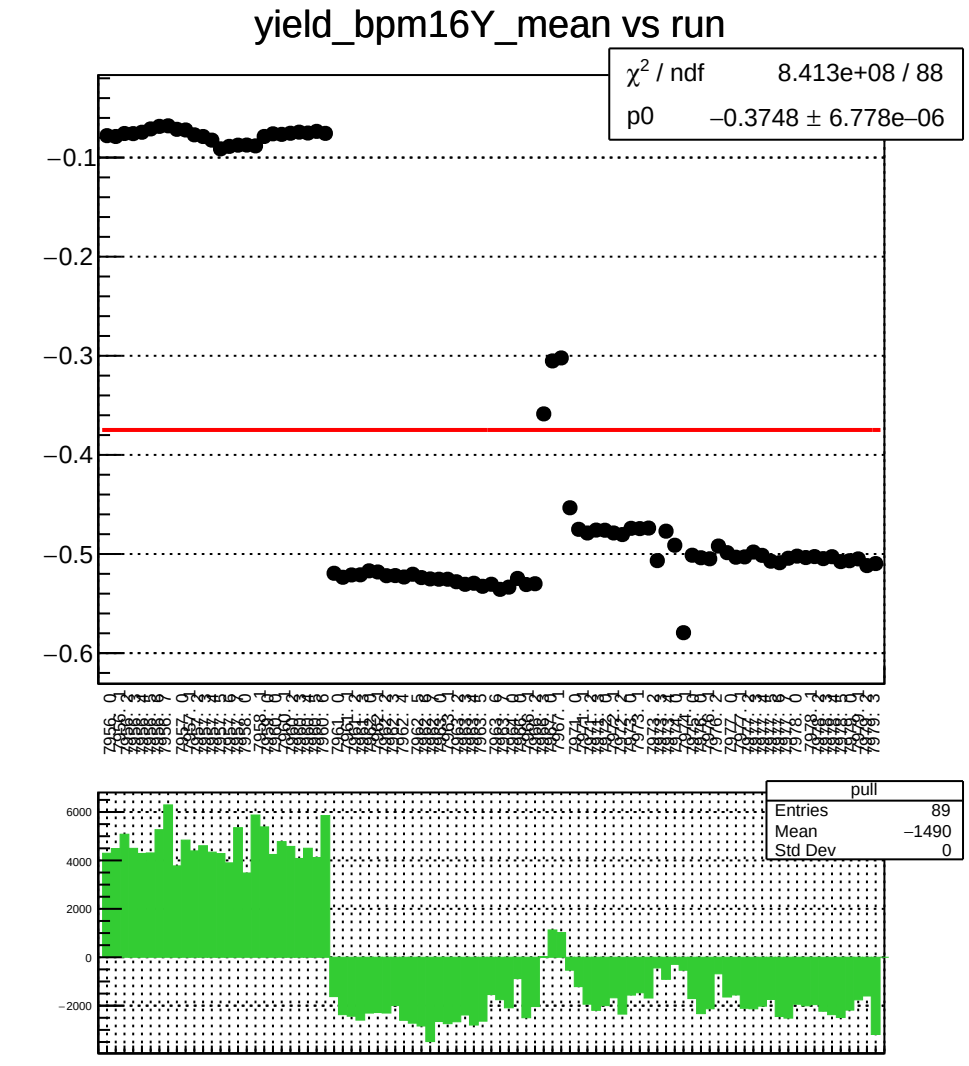

pull1D
Entries 89
Mean 0
Std Dev 0

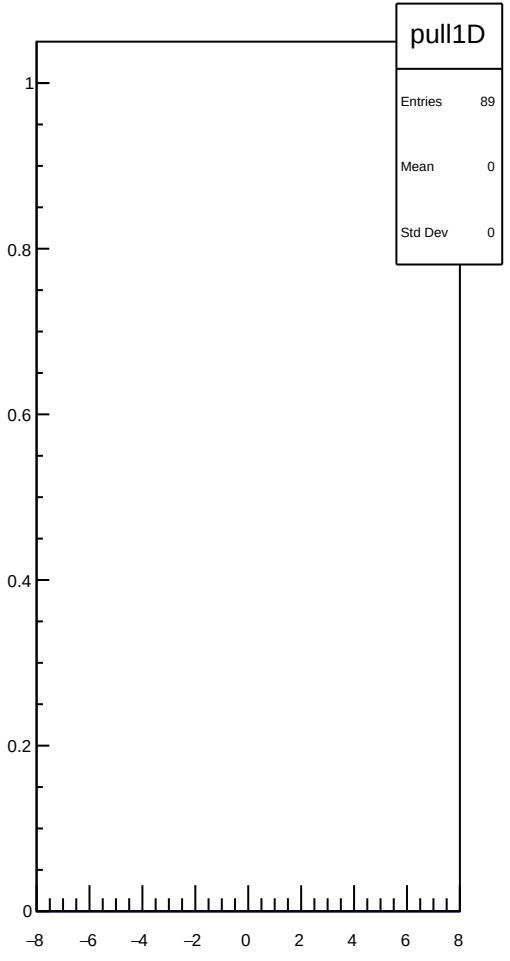

yield_bpm12Y_rms vs run
$\chi^2$ / ndf 9.637e+04 / 88
p0 0.008918 ± 6.852e−06
0.1
0.08
0.06
0.04
0.02

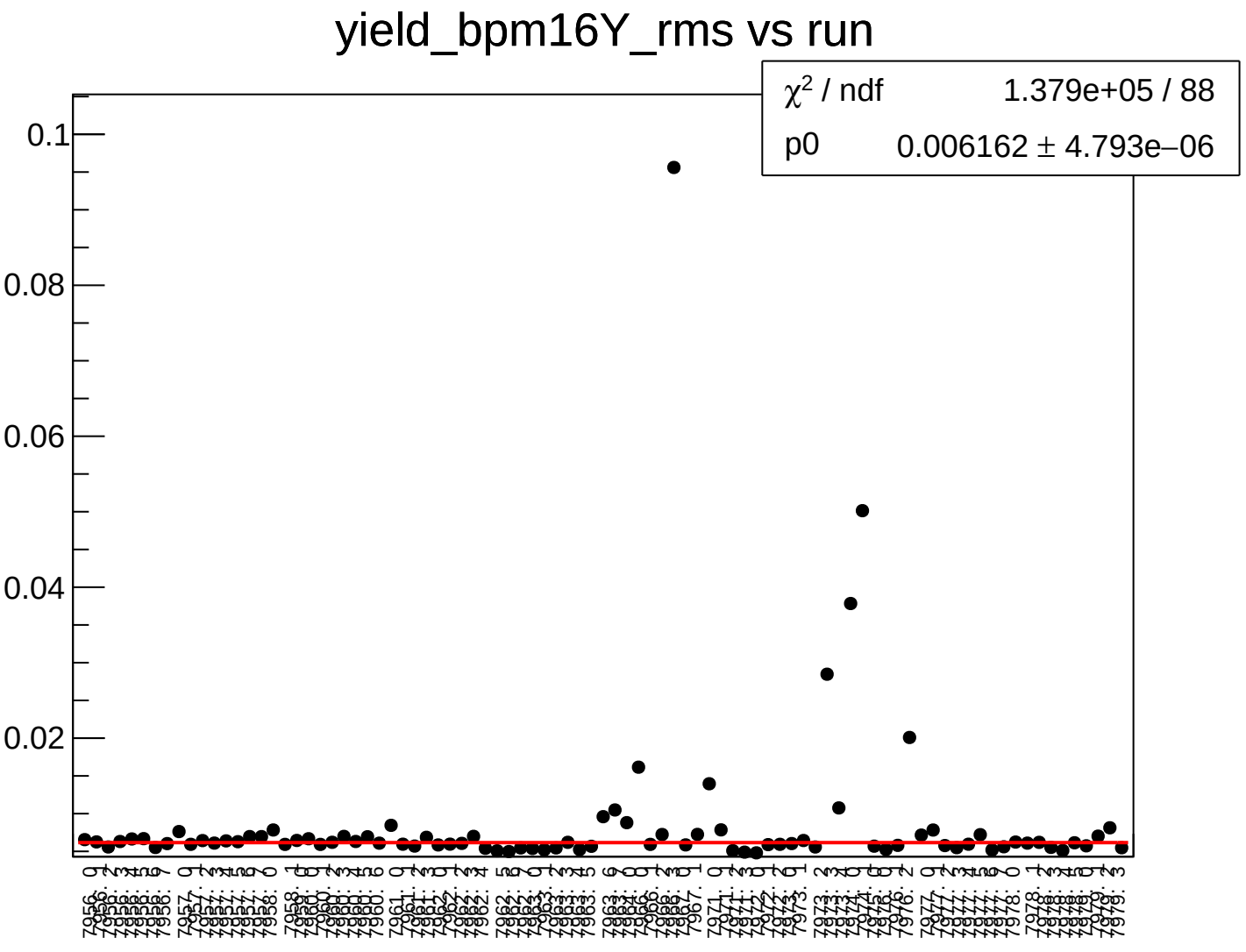

yield_bpm16X_mean vs run
χ² / ndf 1.43e+08 / 88
p0 −0.5142 ± 7.298e−05
pull
Entries 89
Mean −518.9
Std Dev 0

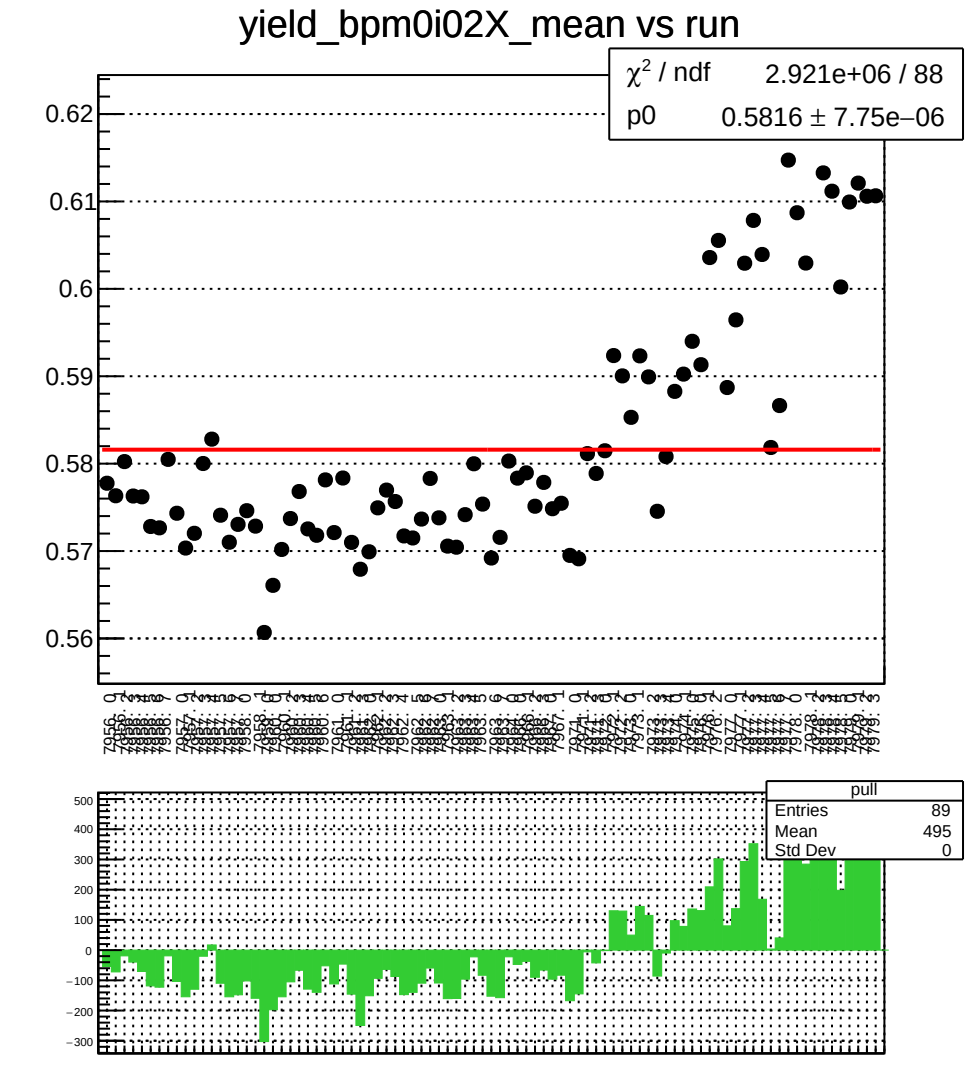

pull1D
Entries 89
Mean 0
Std Dev 0

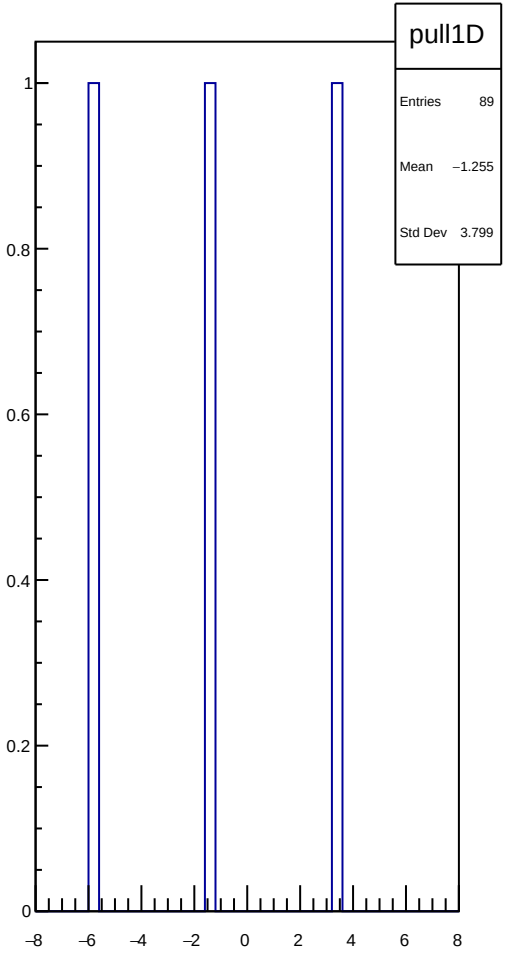

yield_bpm16X_rms vs run
$\chi^2$ / ndf 1.064e+05 / 88
p0 0.06697 ± 5.16e−05
1.2
1
0.8
0.6
0.4
0.2

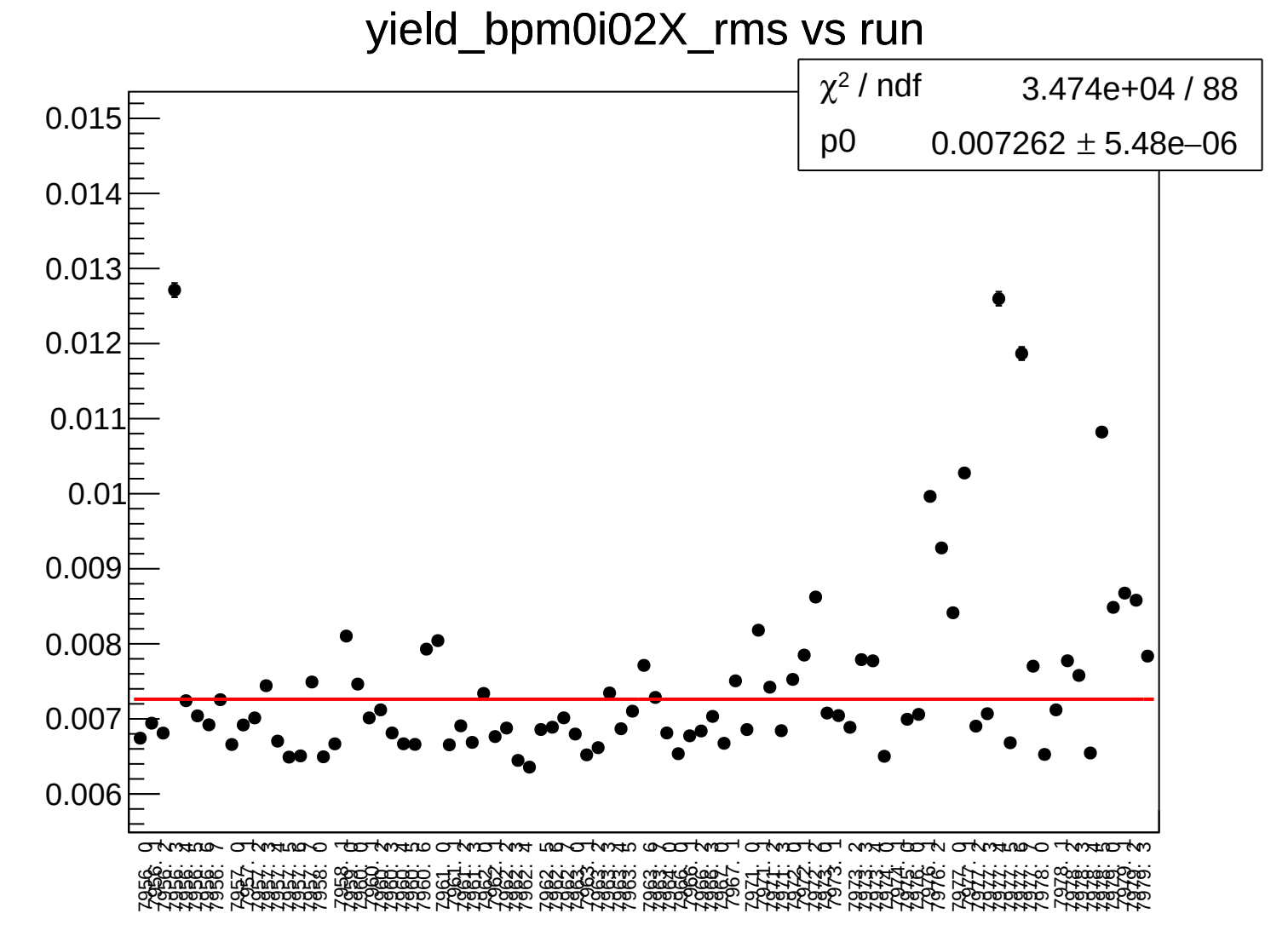

yield_bpm16Y_mean vs run
χ² / ndf 8.413e+08 / 88
p0 −0.3748 ± 6.778e−06
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull
Entries 89
Mean −1490
Std Dev 0
6000
4000
2000
0
−2000

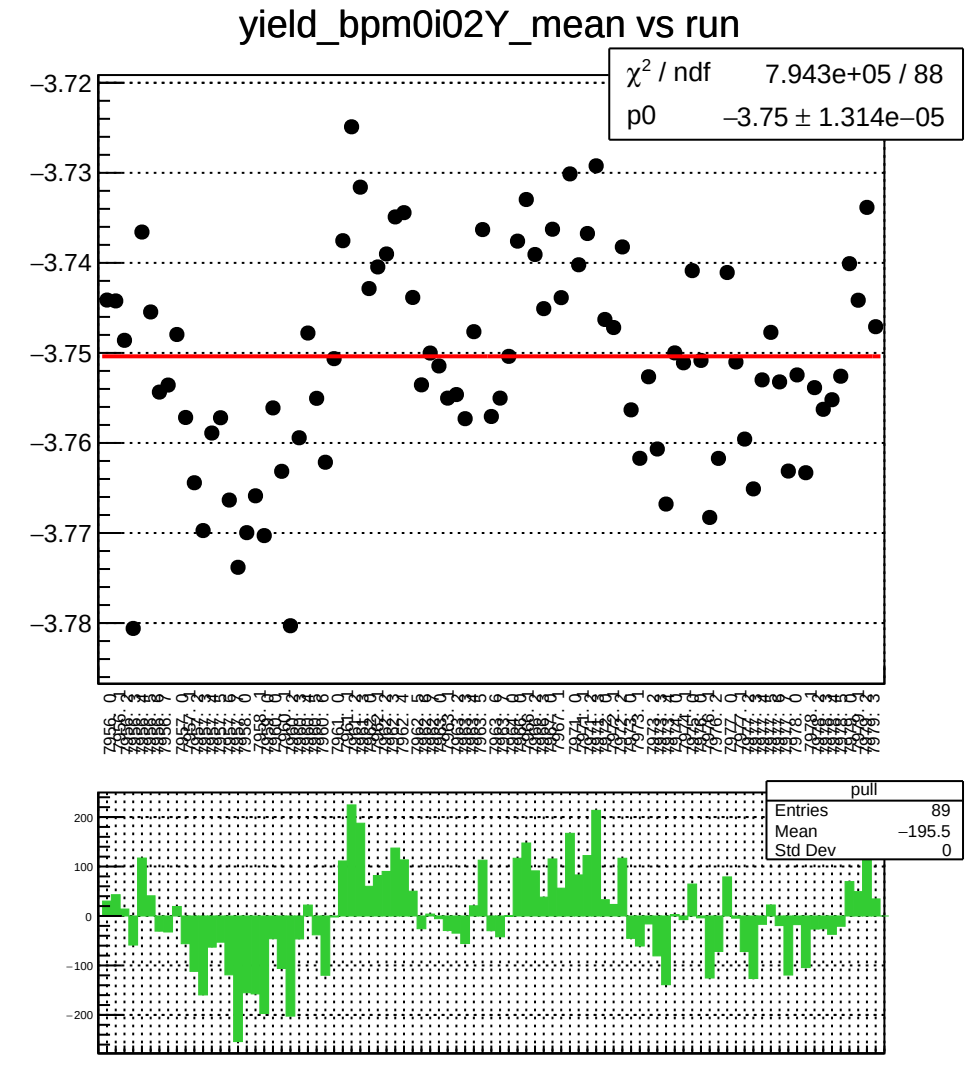

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

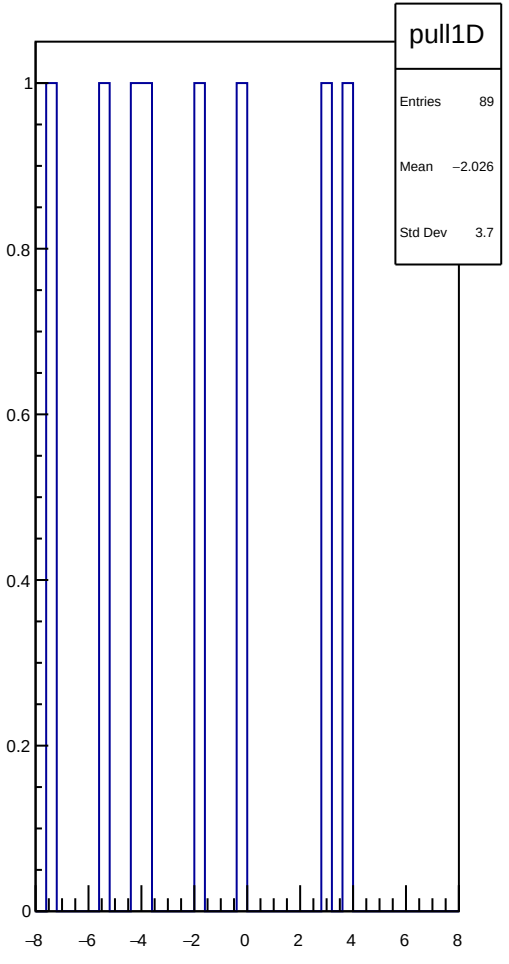

yield_bpm16Y_rms vs run
χ² / ndf 1.379e+05 / 88
p0 0.006162 ± 4.793e−06
0.1
0.08
0.06
0.04
0.02

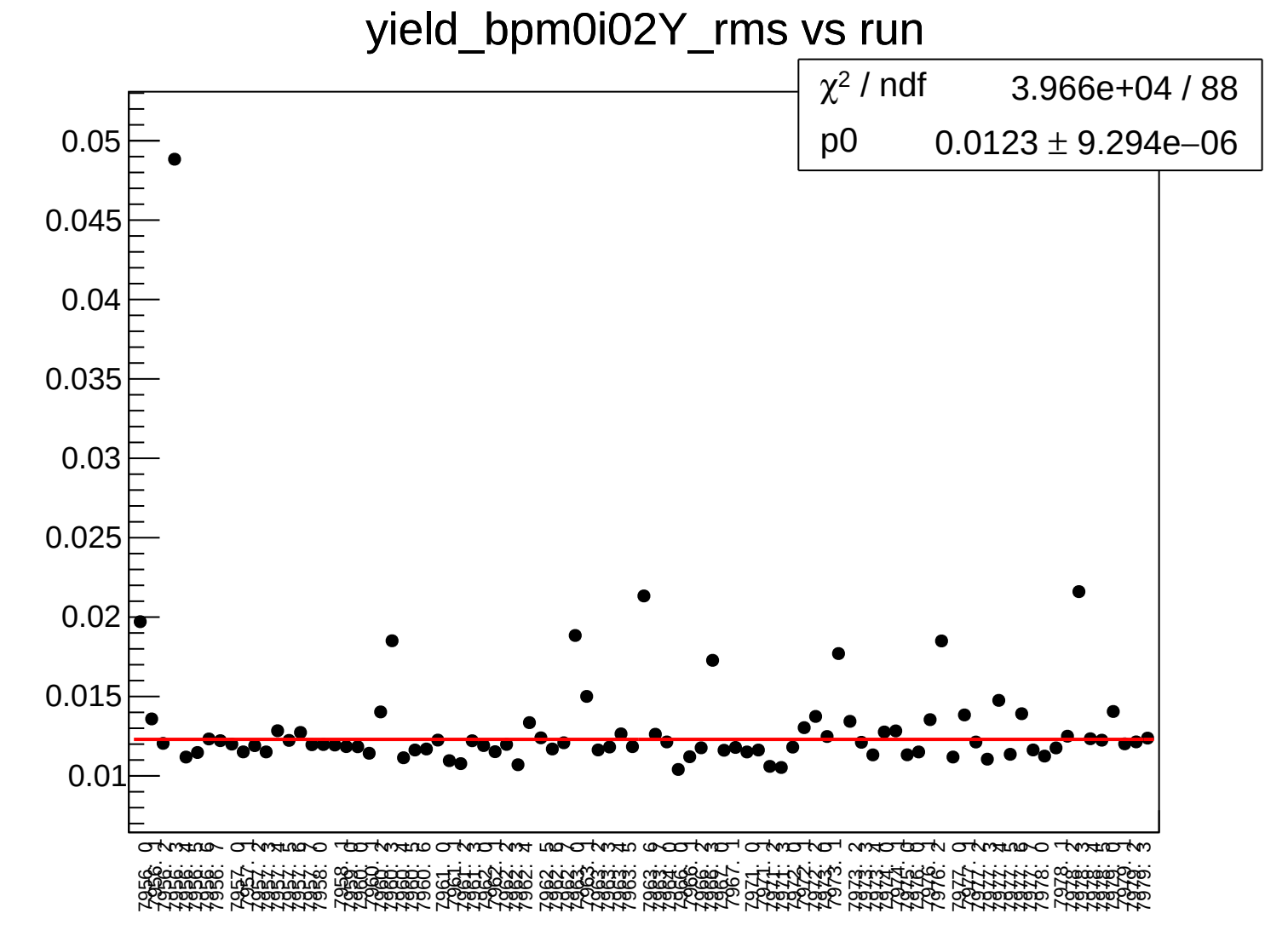

yield_bpm0i02X_mean vs run
χ² / ndf 2.921e+06 / 88
p0 0.5816 ± 7.75e−06
0.62
0.61
0.6
0.59
0.58
0.57
0.56
pull
Entries 89
Mean 495
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

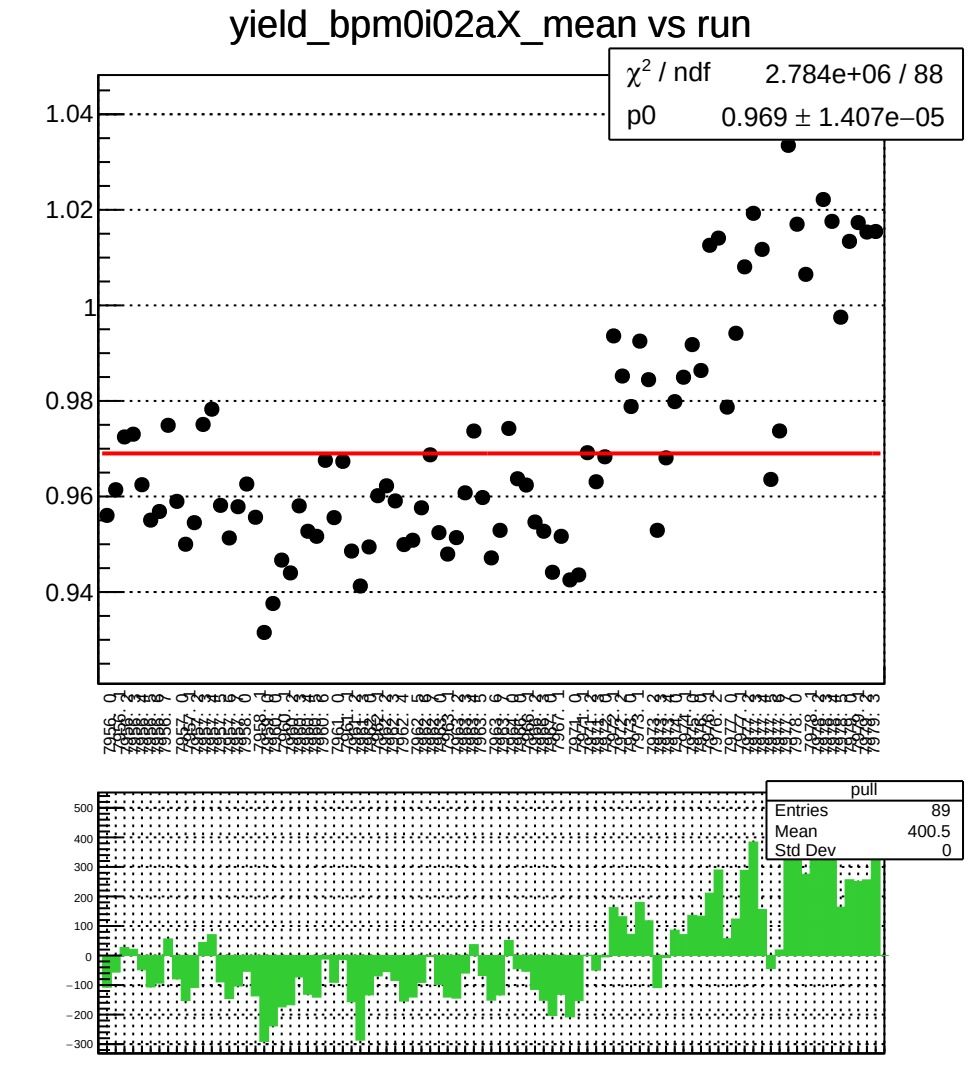

pull1D
Entries 89
Mean −1.255
Std Dev 3.799
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

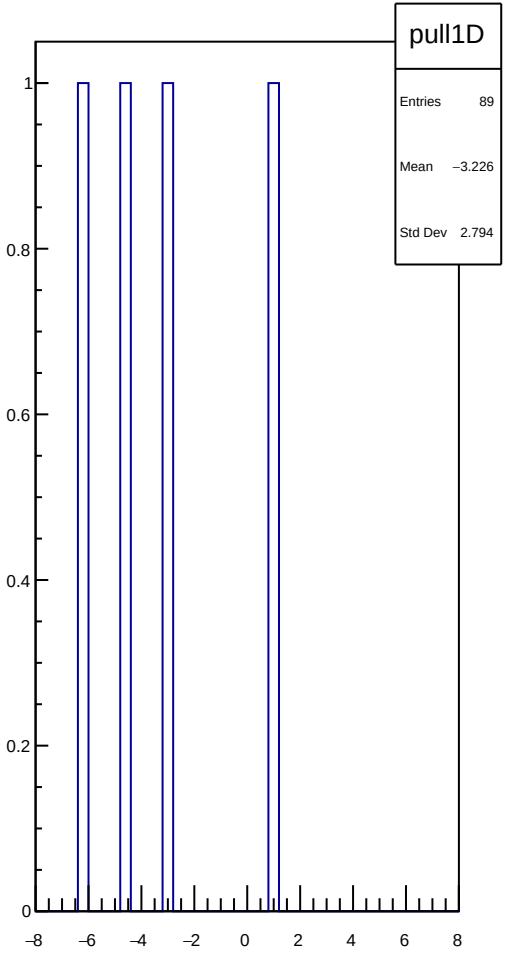

yield_bpm0i02X_rms vs run
χ² / ndf 3.474e+04 / 88
p0 0.007262 ± 5.48e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

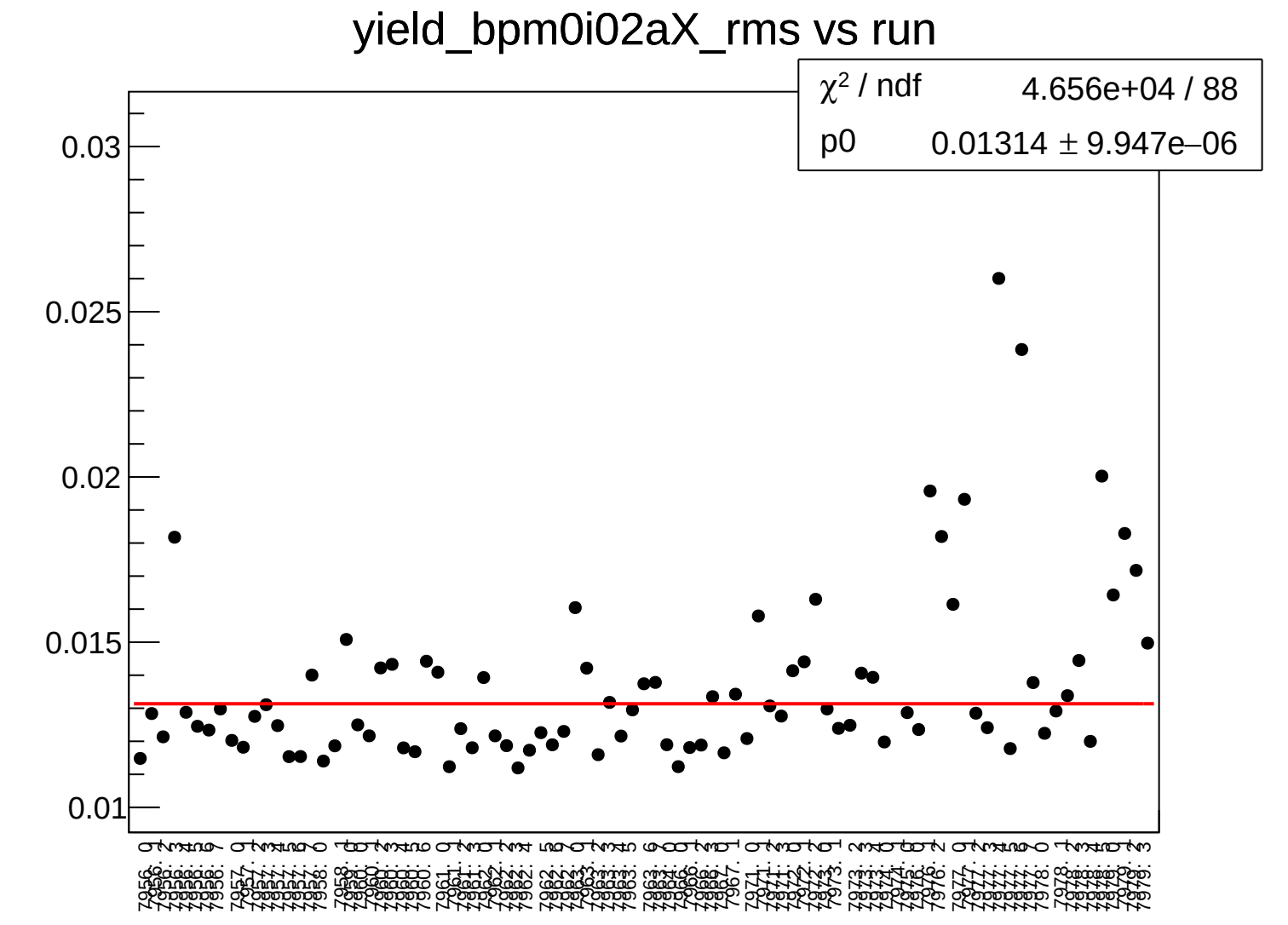

yield_bpm0i02Y_mean vs run
χ² / ndf 7.943e+05 / 88
p0 −3.75 ± 1.314e−05
−3.72
−3.73
−3.74
−3.75
−3.76
−3.77
−3.78
pull
Entries 89
Mean −195.5
Std Dev 0
200
100
0
−100
−200

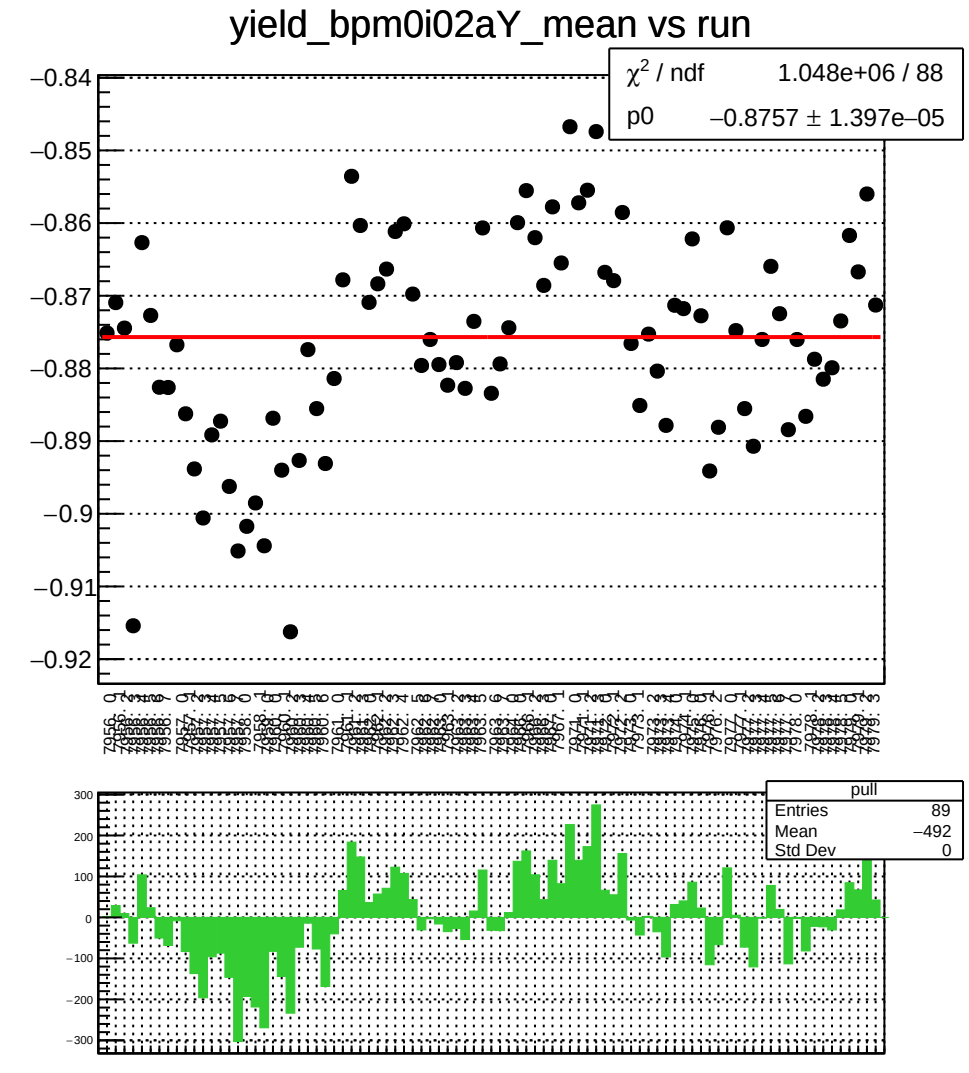

pull1D
Entries 89
Mean −2.026
Std Dev 3.7
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

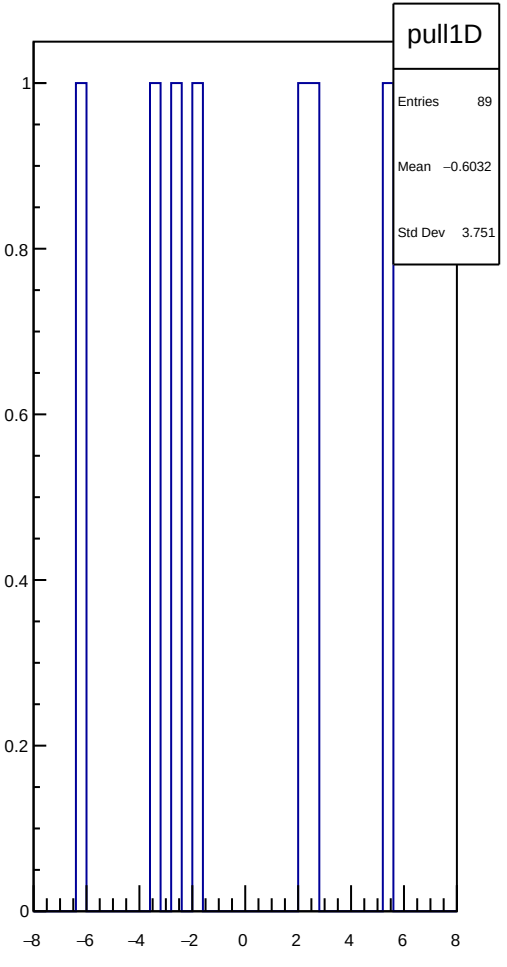

yield_bpm0i02Y_rms vs run
χ² / ndf 3.966e+04 / 88
p0 0.0123 ± 9.294e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

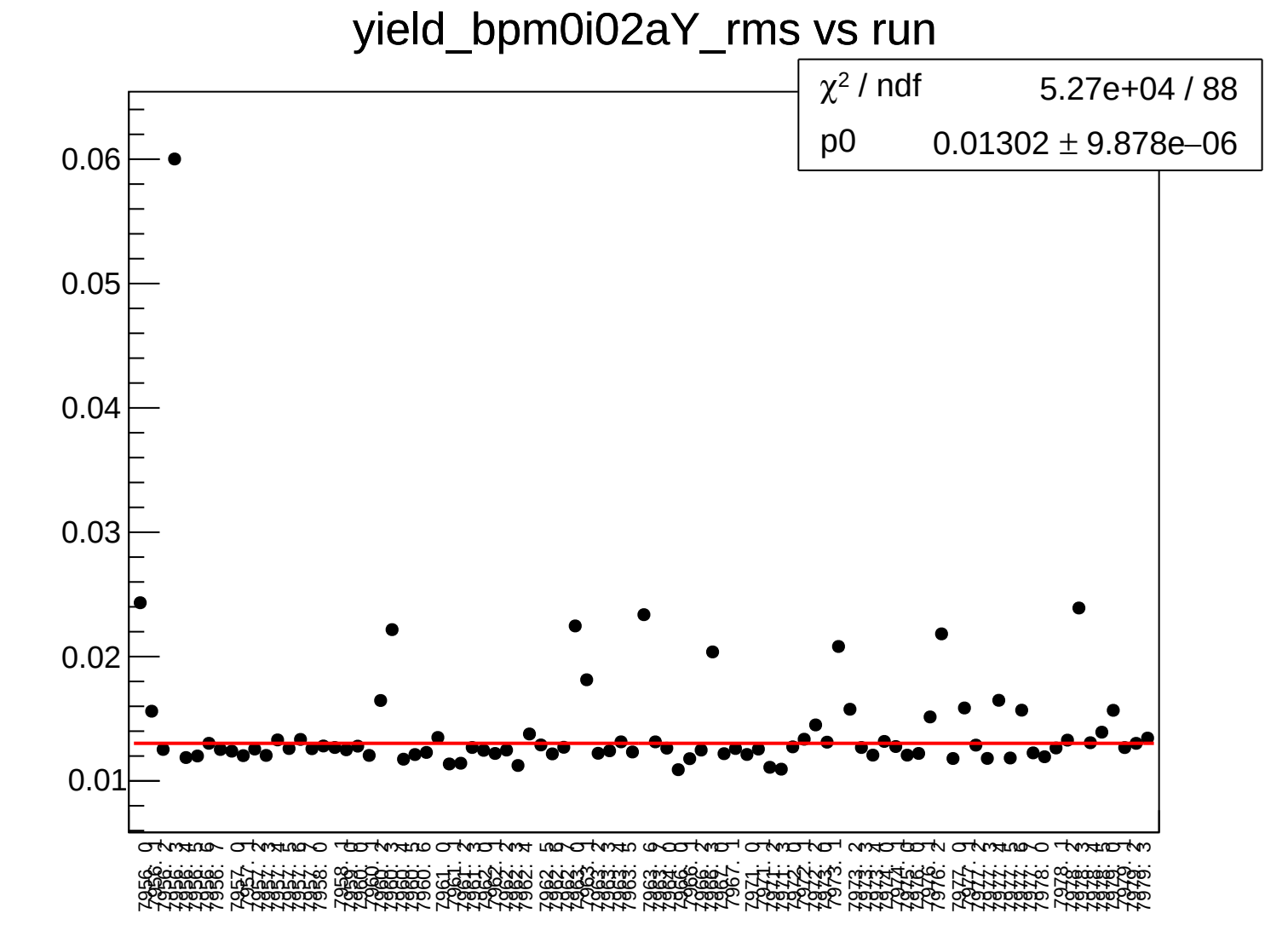

yield_bpm0i02aX_mean vs run
χ² / ndf 2.784e+06 / 88
p0 0.969 ± 1.407e−05
1.04
1.02
1
0.98
0.96
0.94
pull
Entries 89
Mean 400.5
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

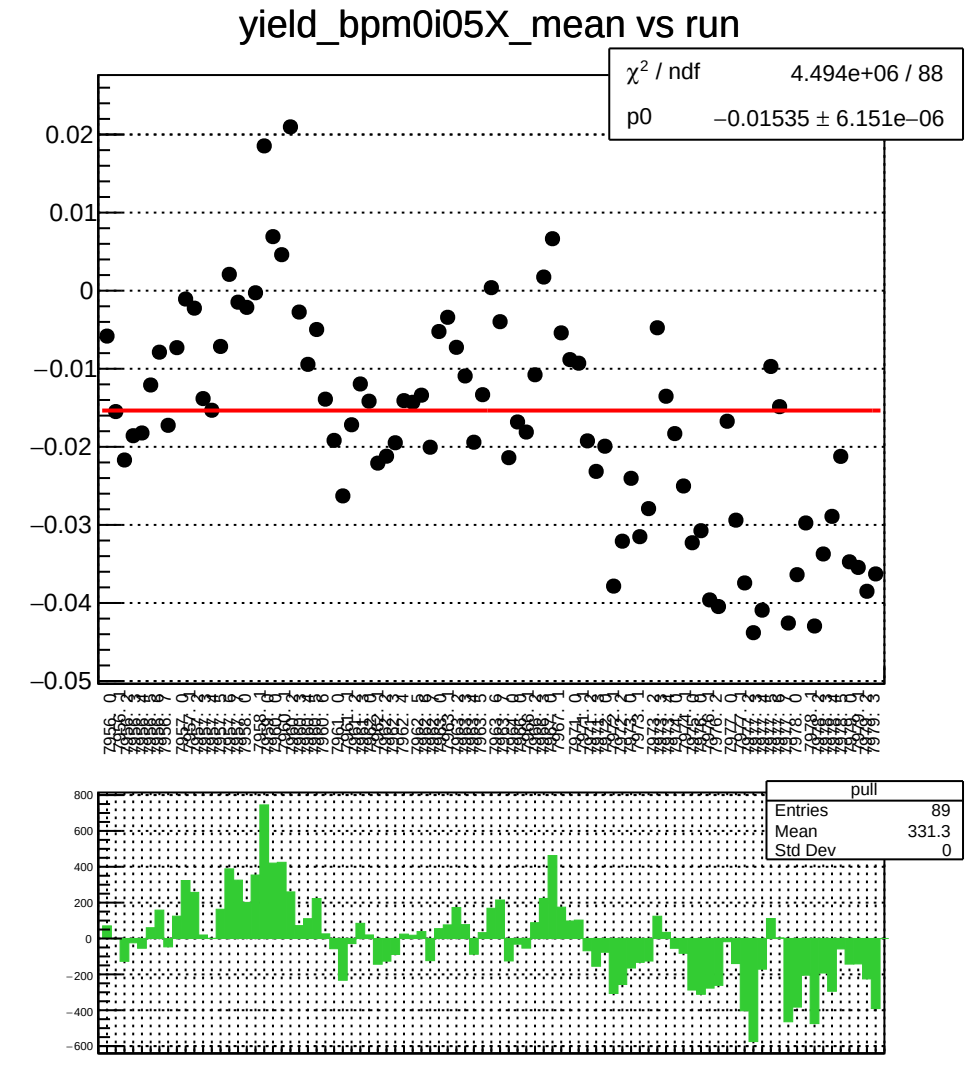

pull1D
Entries 89
Mean −3.226
Std Dev 2.794
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

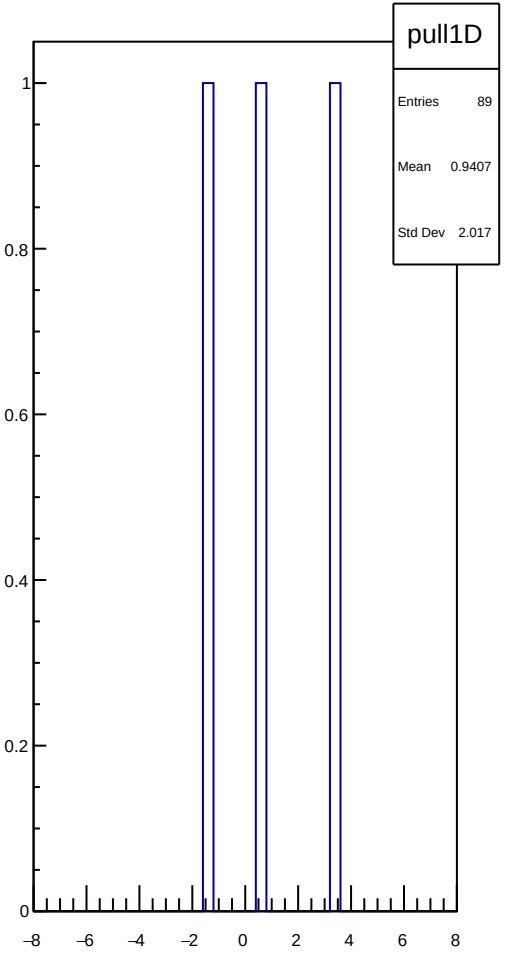

yield_bpm0i02aX_rms vs run
χ² / ndf 4.656e+04 / 88
p0 0.01314 ± 9.947e–06
0.03
0.025
0.02
0.015
0.01

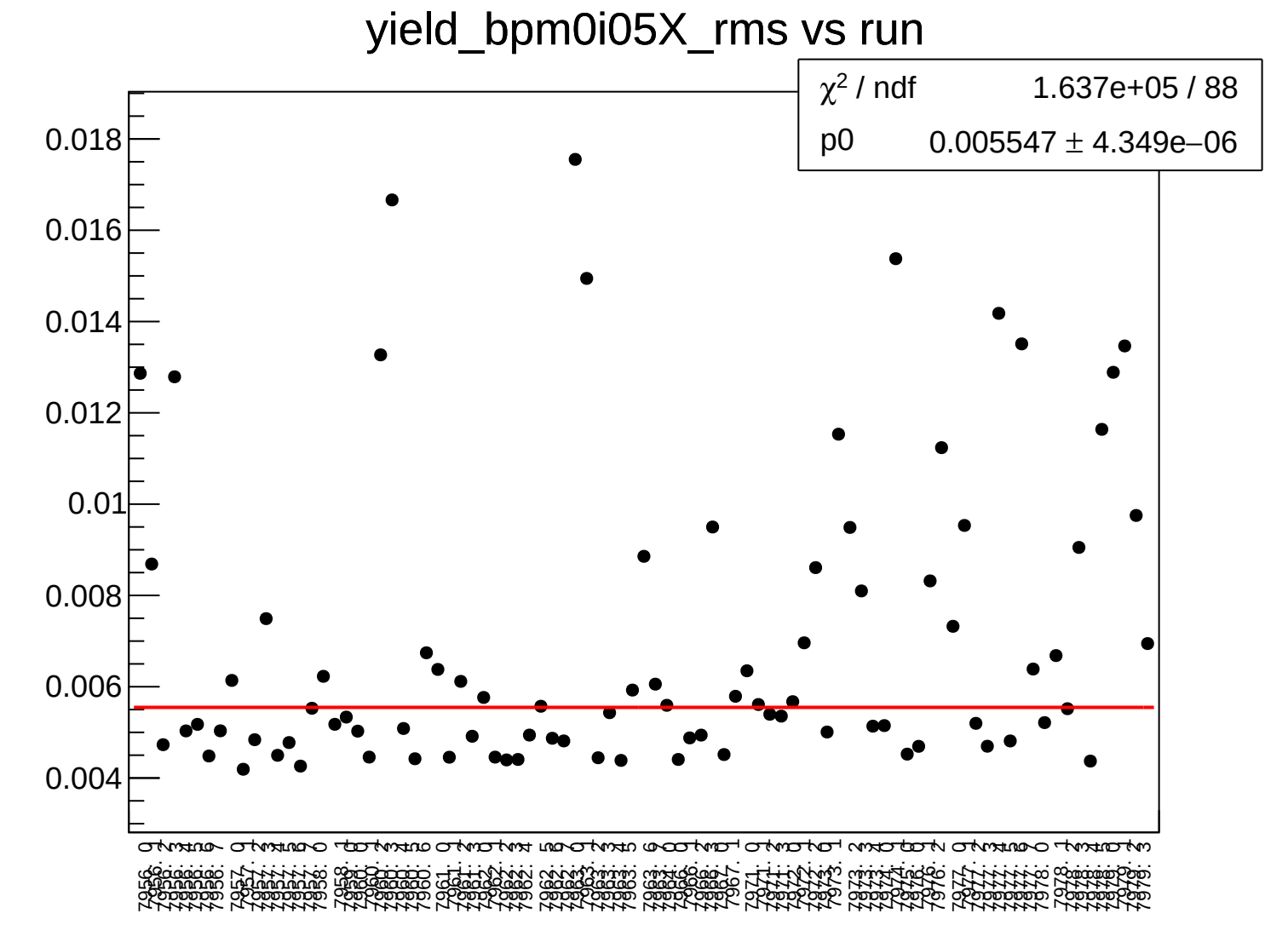

yield_bpm0i02aY_mean vs run
χ² / ndf 1.048e+06 / 88
p0 −0.8757 ± 1.397e−05
−0.84
−0.85
−0.86
−0.87
−0.88
−0.89
−0.9
−0.91
−0.92
pull
Entries 89
Mean −492
Std Dev 0
300
200
100
0
−100
−200
−300

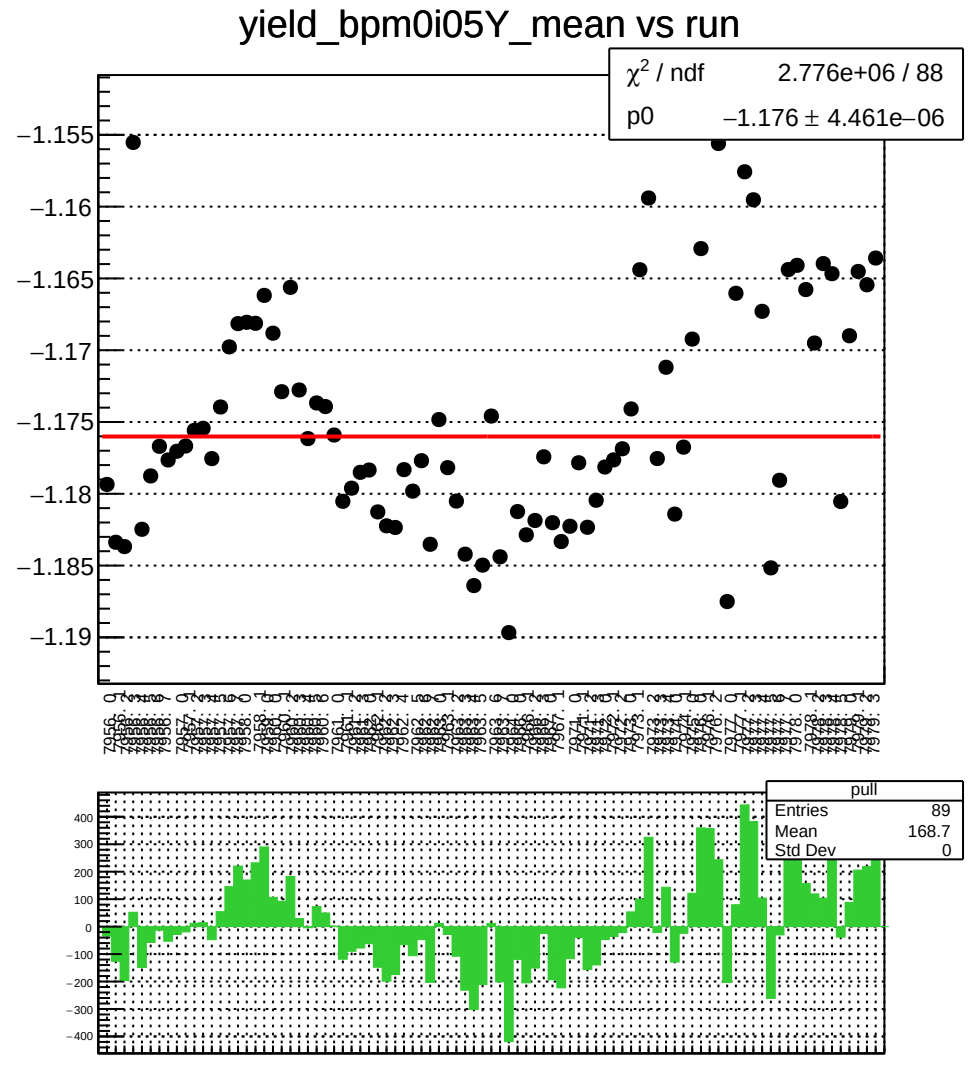

pull1D
Entries 89
Mean −0.6032
Std Dev 3.751
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

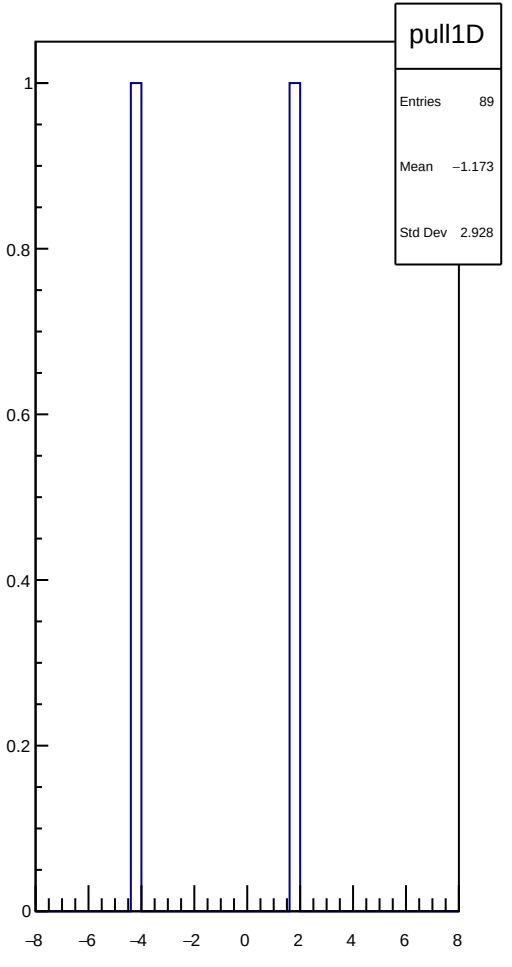

yield_bpm0i02aY_rms vs run
χ² / ndf 5.27e+04 / 88
p0 0.01302 ± 9.878e–06
0.06
0.05
0.04
0.03
0.02
0.01

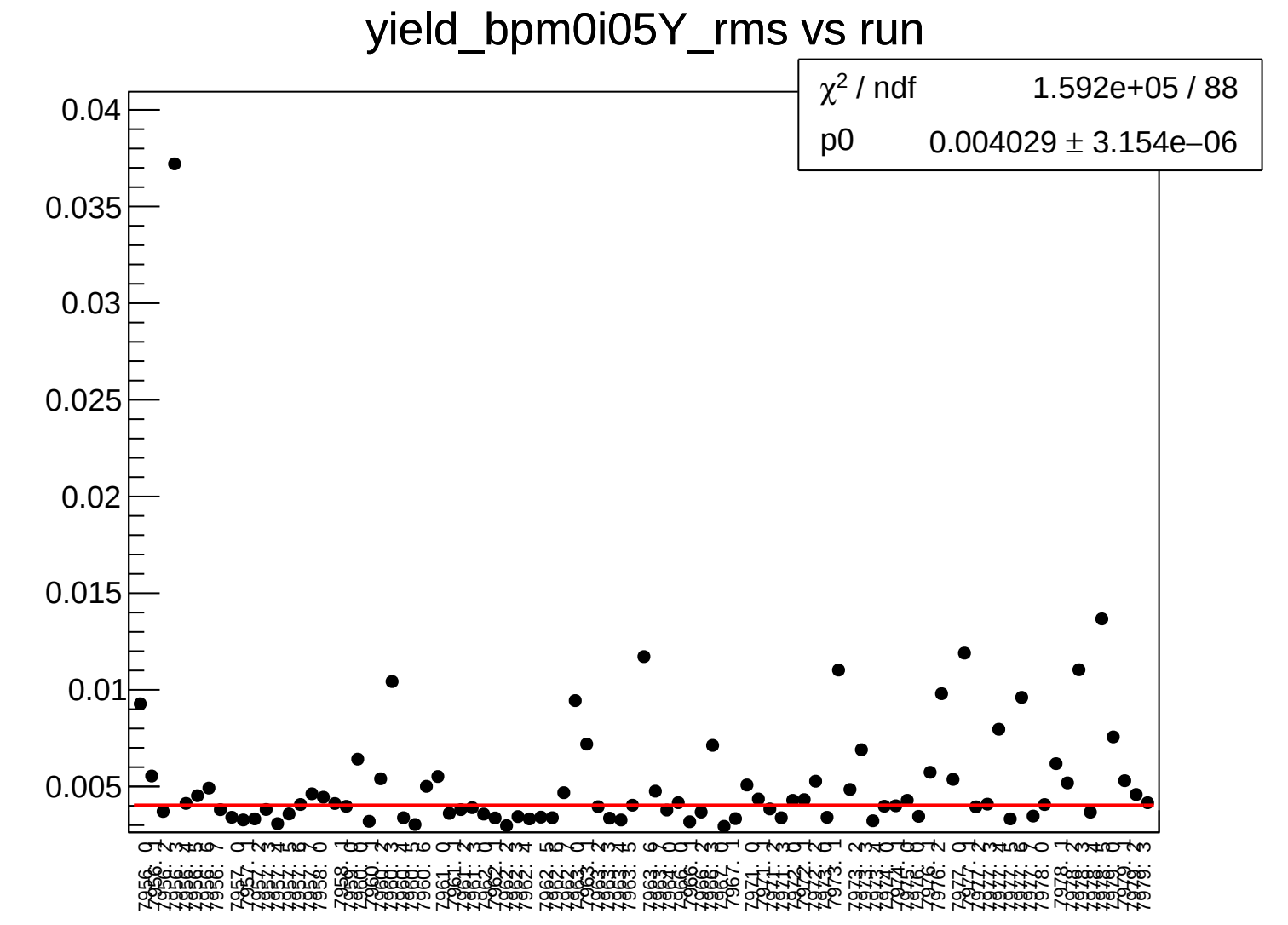

yield_bpm0i05X_mean vs run
χ² / ndf 4.494e+06 / 88
p0 −0.01535 ± 6.151e−06
pull
Entries 89
Mean 331.3
Std Dev 0

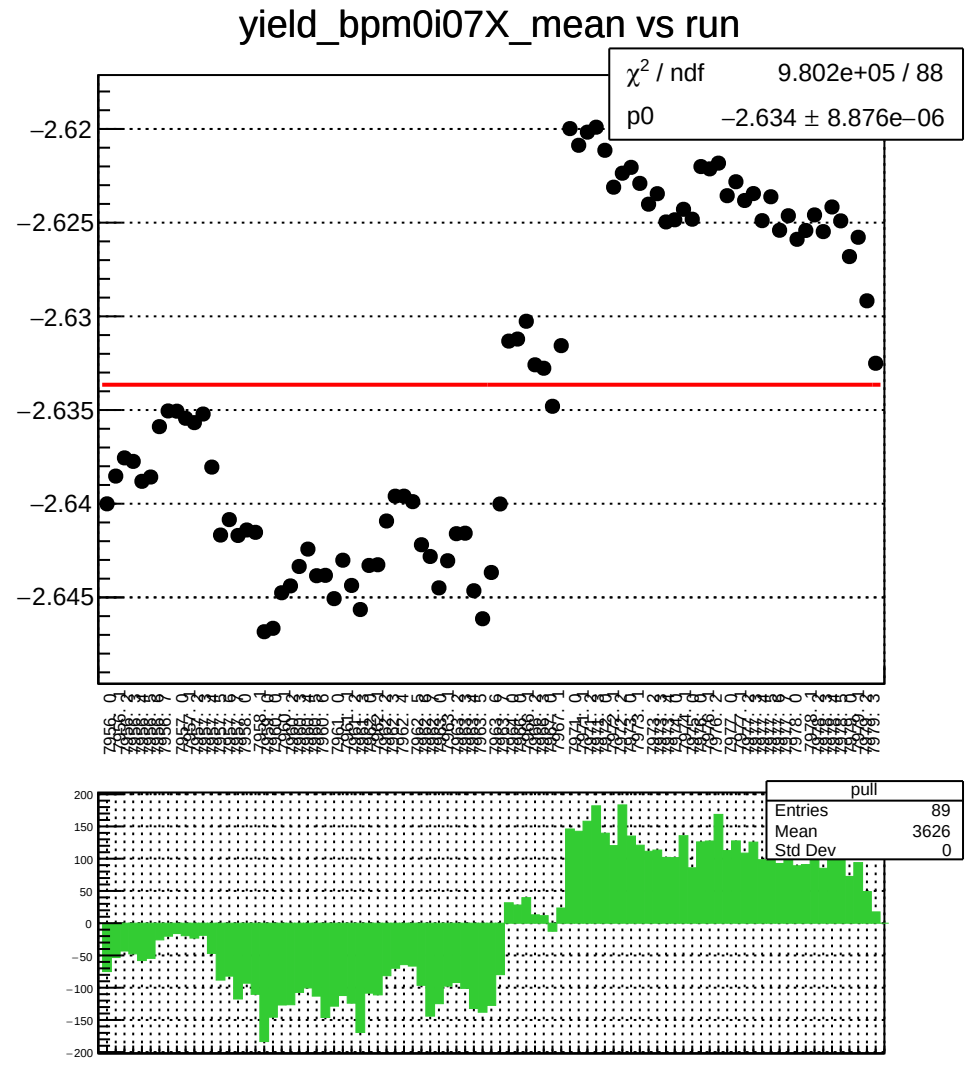

pull1D
Entries 89
Mean 0.9407
Std Dev 2.017

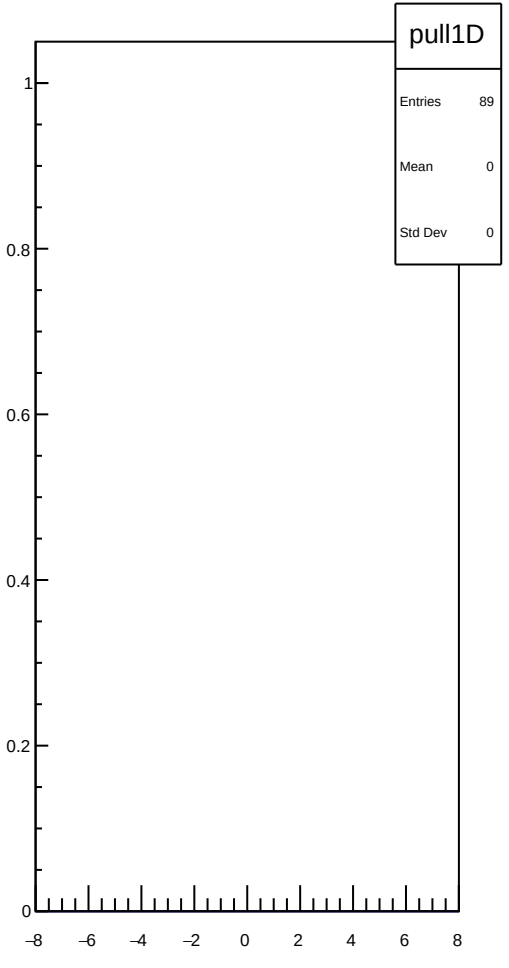

yield_bpm0i05X_rms vs run
χ² / ndf 1.637e+05 / 88
p0 0.005547 ± 4.349e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

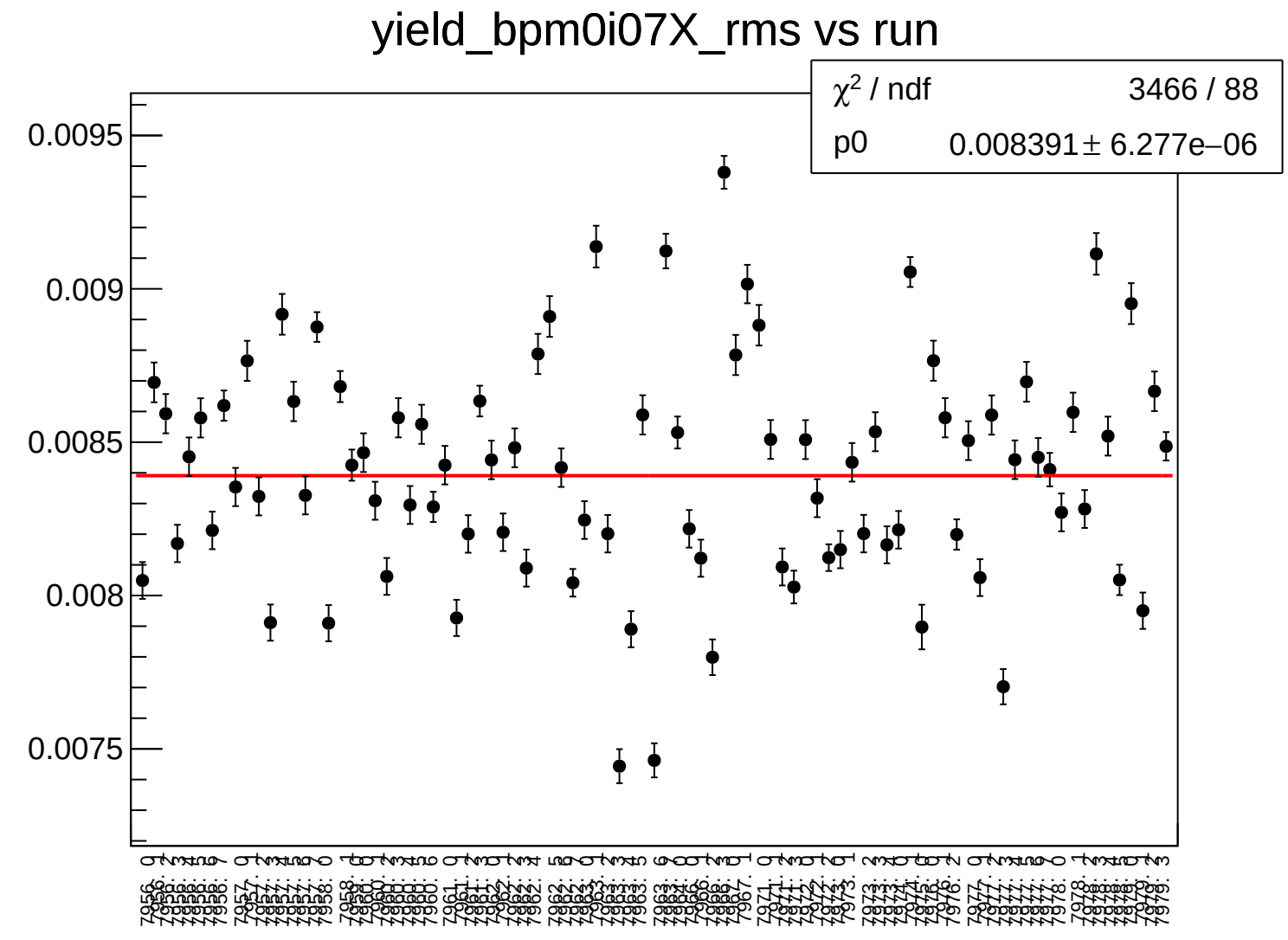

yield_bpm0i05Y_mean vs run
χ² / ndf 2.776e+06 / 88
p0 −1.176 ± 4.461e−06
−1.155
−1.16
−1.165
−1.17
−1.175
−1.18
−1.185
−1.19
pull
Entries 89
Mean 168.7
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

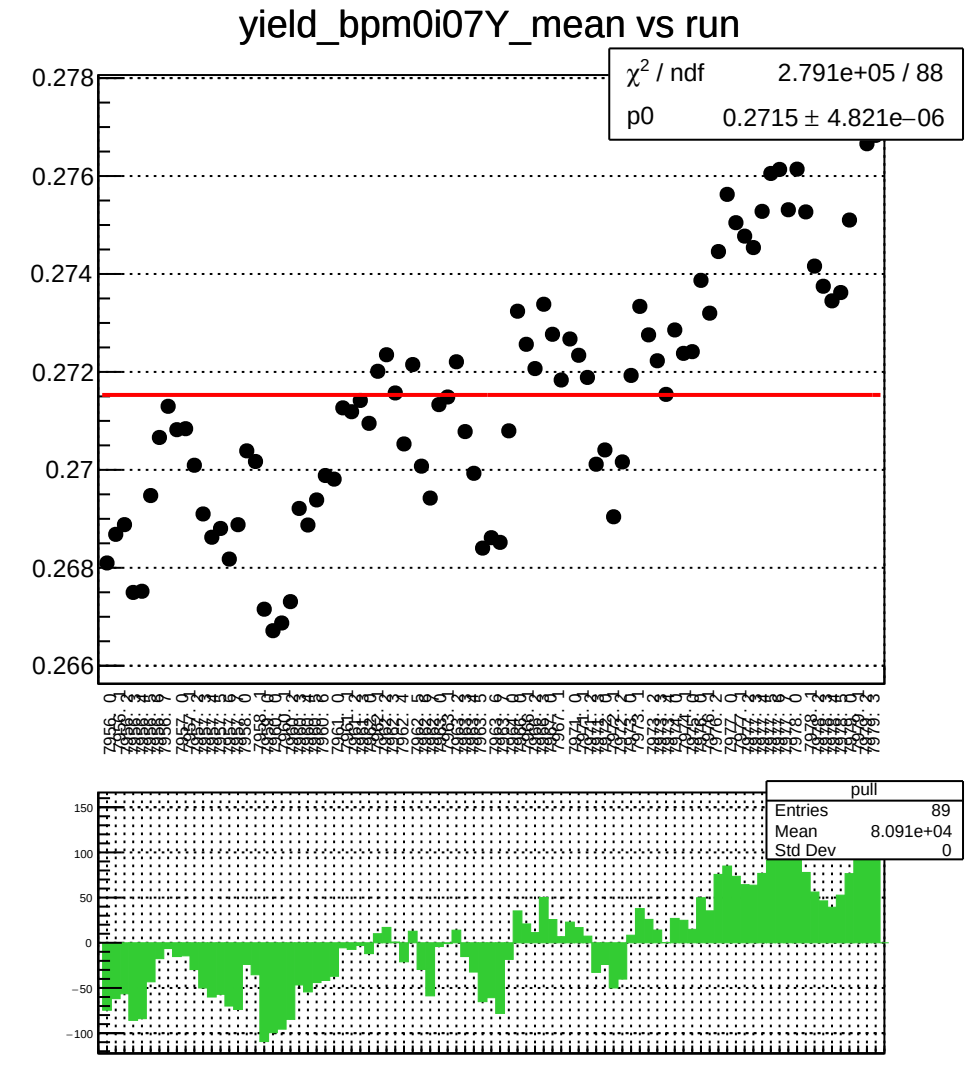

pull1D
Entries 89
Mean −1.173
Std Dev 2.928
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

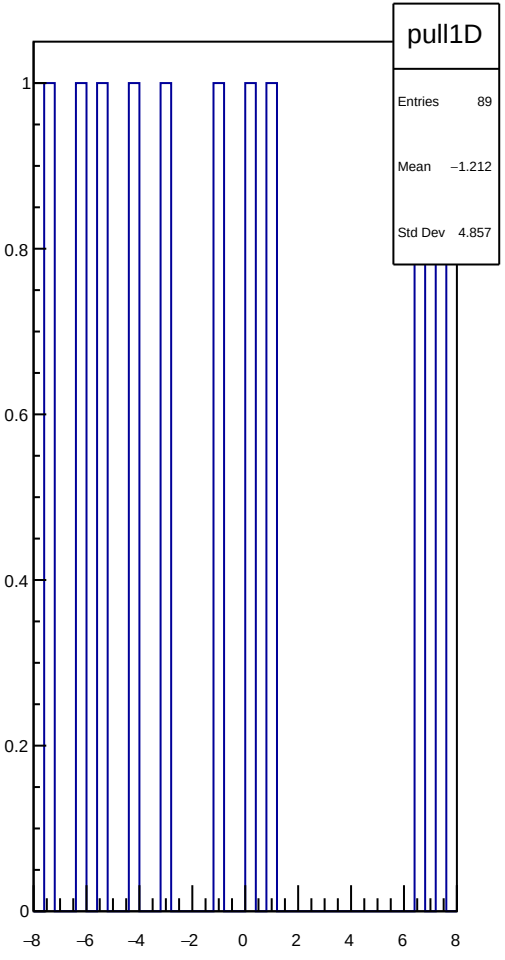

yield_bpm0i05Y_rms vs run
χ² / ndf 1.592e+05 / 88
p0 0.004029 ± 3.154e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

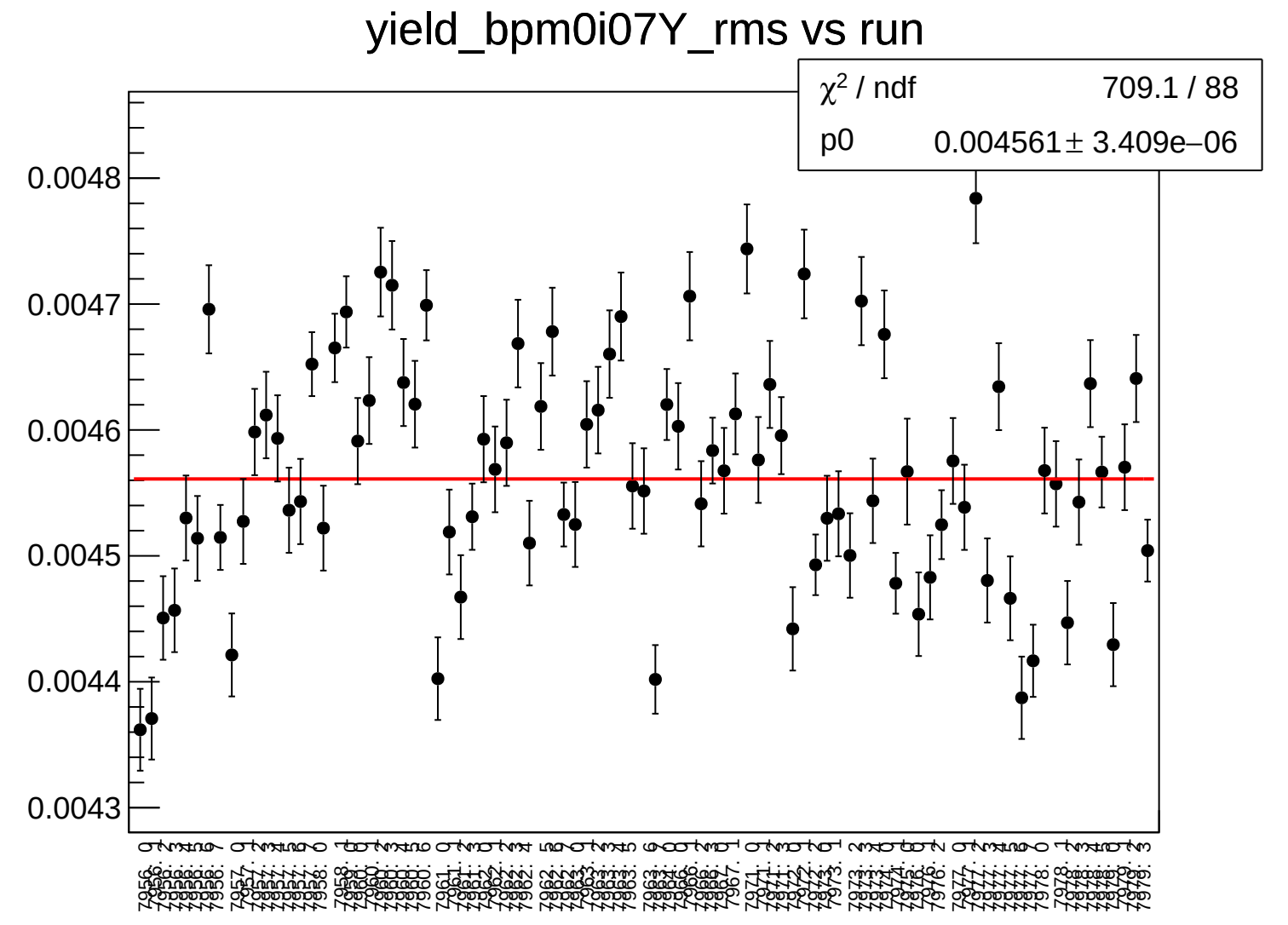

yield_bpm0i07X_mean vs run
χ² / ndf 9.802e+05 / 88
p0 −2.634 ± 8.876e−06
−2.62
−2.625
−2.63
−2.635
−2.64
−2.645
pull
Entries 89
Mean 3626
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

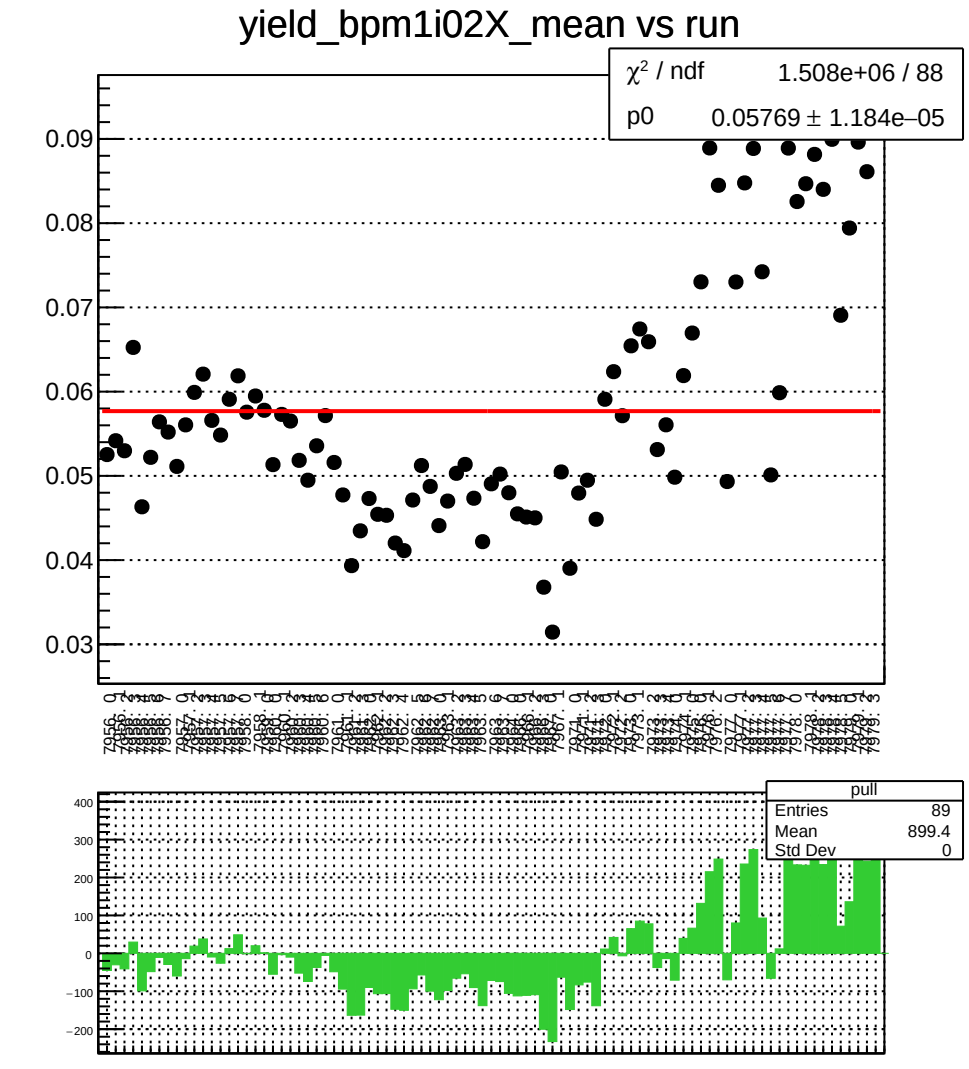

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

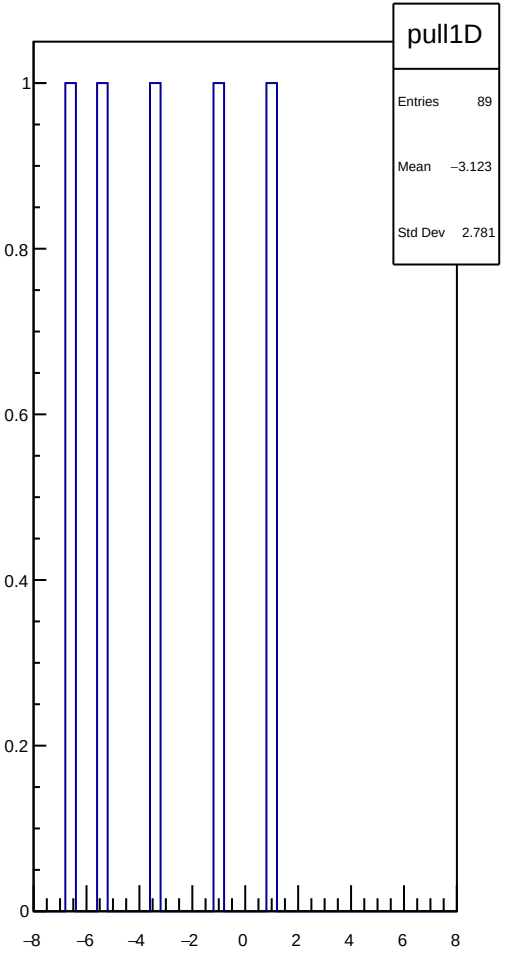

yield_bpm0i07X_rms vs run
χ² / ndf 3466 / 88
p0 0.008391 ± 6.277e−06
0.0095
0.009
0.0085
0.008
0.0075

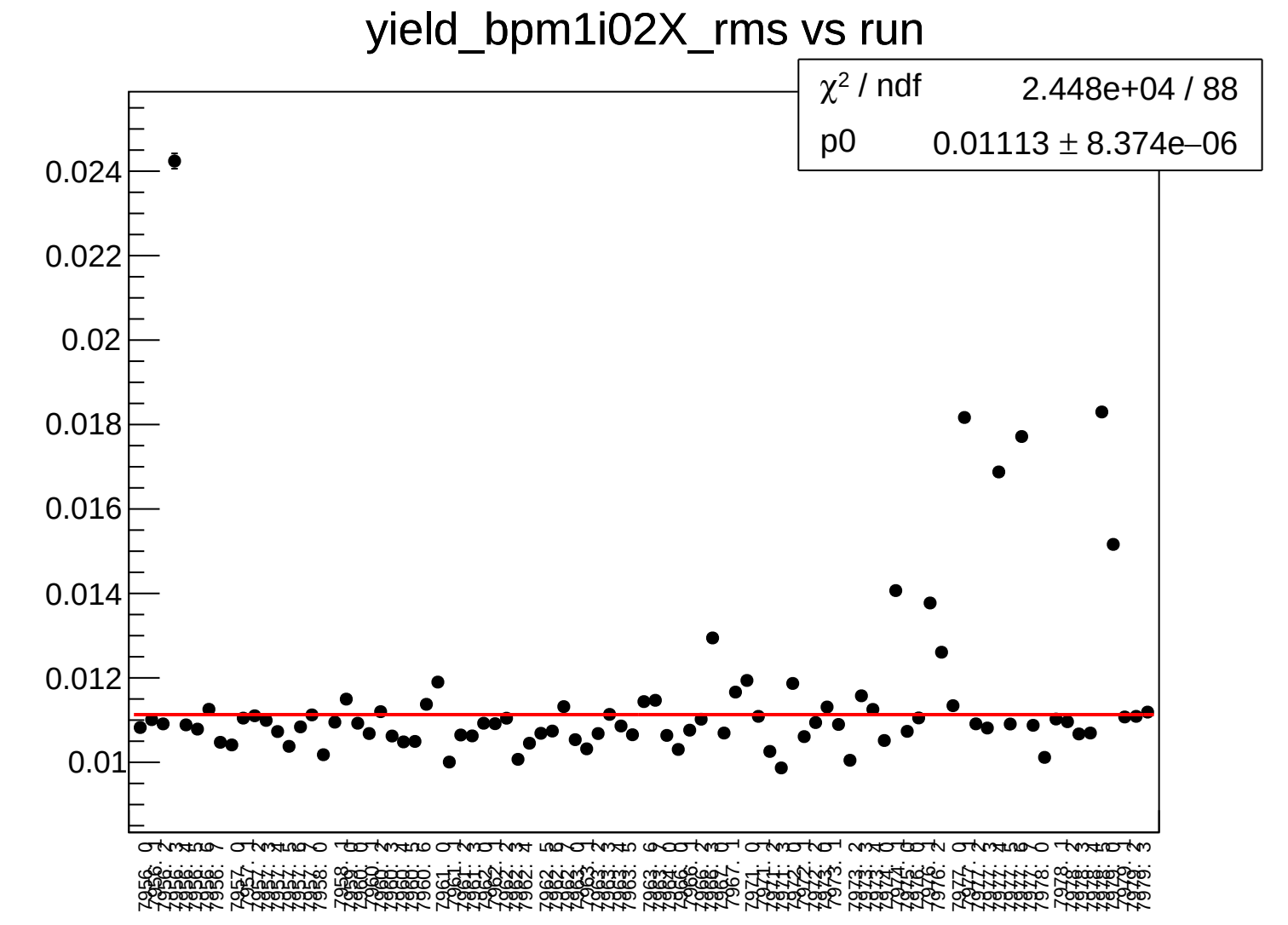

yield_bpm0i07Y_mean vs run
χ² / ndf 2.791e+05 / 88
p0 0.2715 ± 4.821e−06
0.278
0.276
0.274
0.272
0.27
0.268
0.266
pull
Entries 89
Mean 8.091e+04
Std Dev 0
150
100
50
0
−50
−100

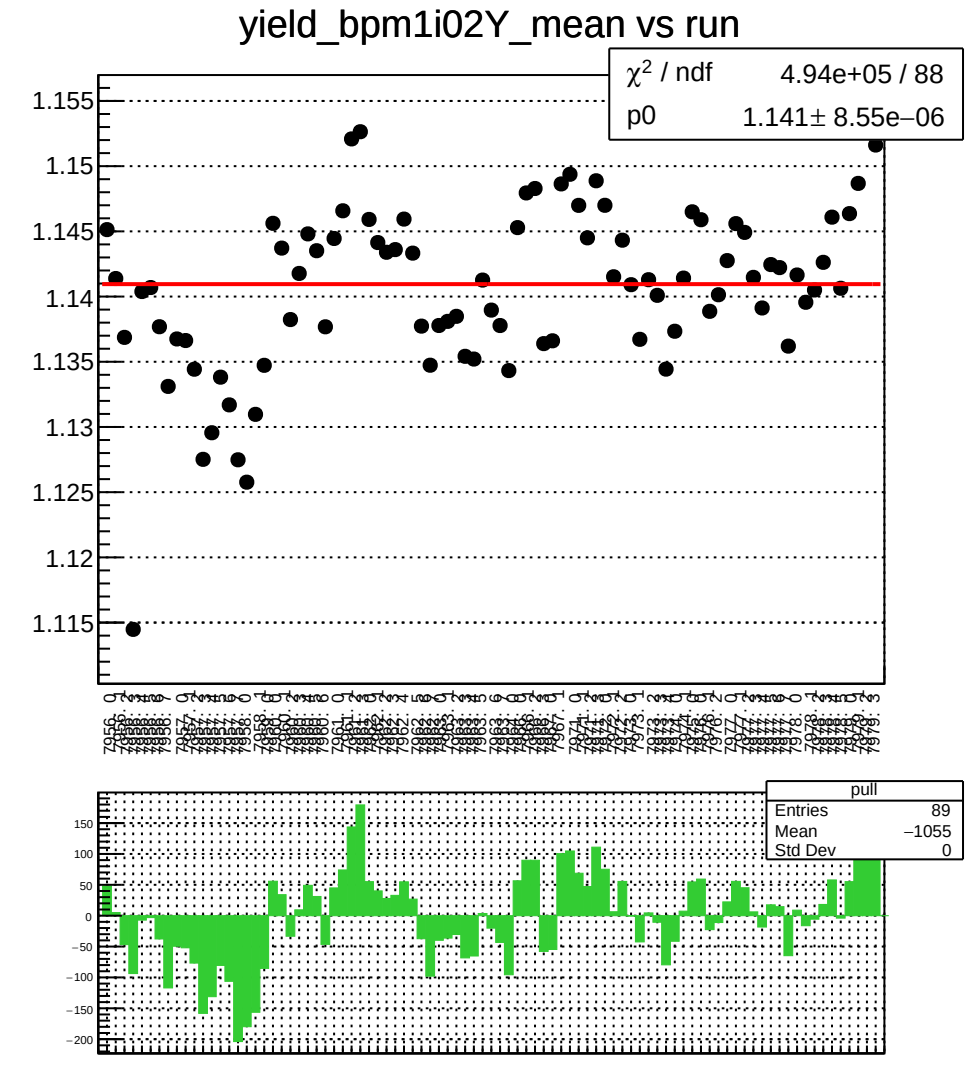

pull1D
Entries 89
Mean −1.212
Std Dev 4.857
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

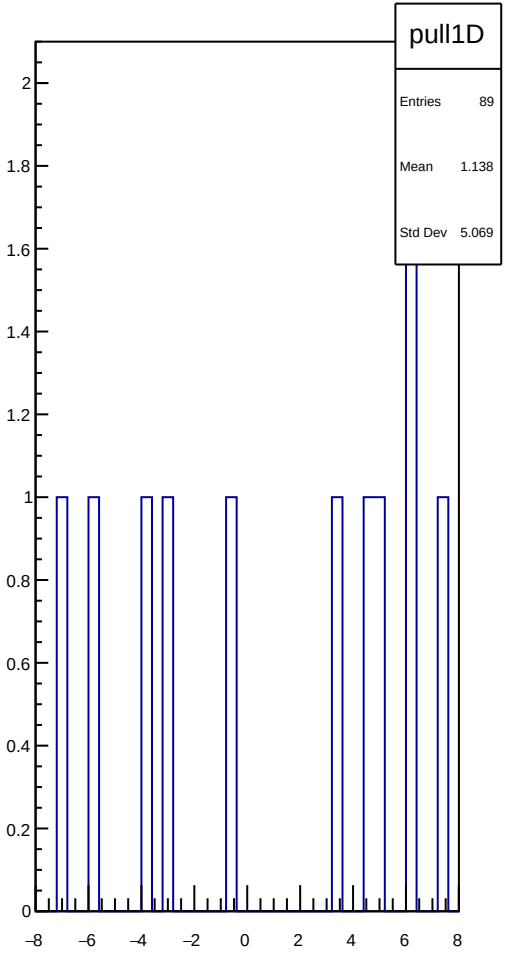

yield_bpm0i07Y_rms vs run
χ² / ndf 709.1 / 88
p0 0.004561 ± 3.409e−06
0.0048
0.0047
0.0046
0.0045
0.0044
0.0043

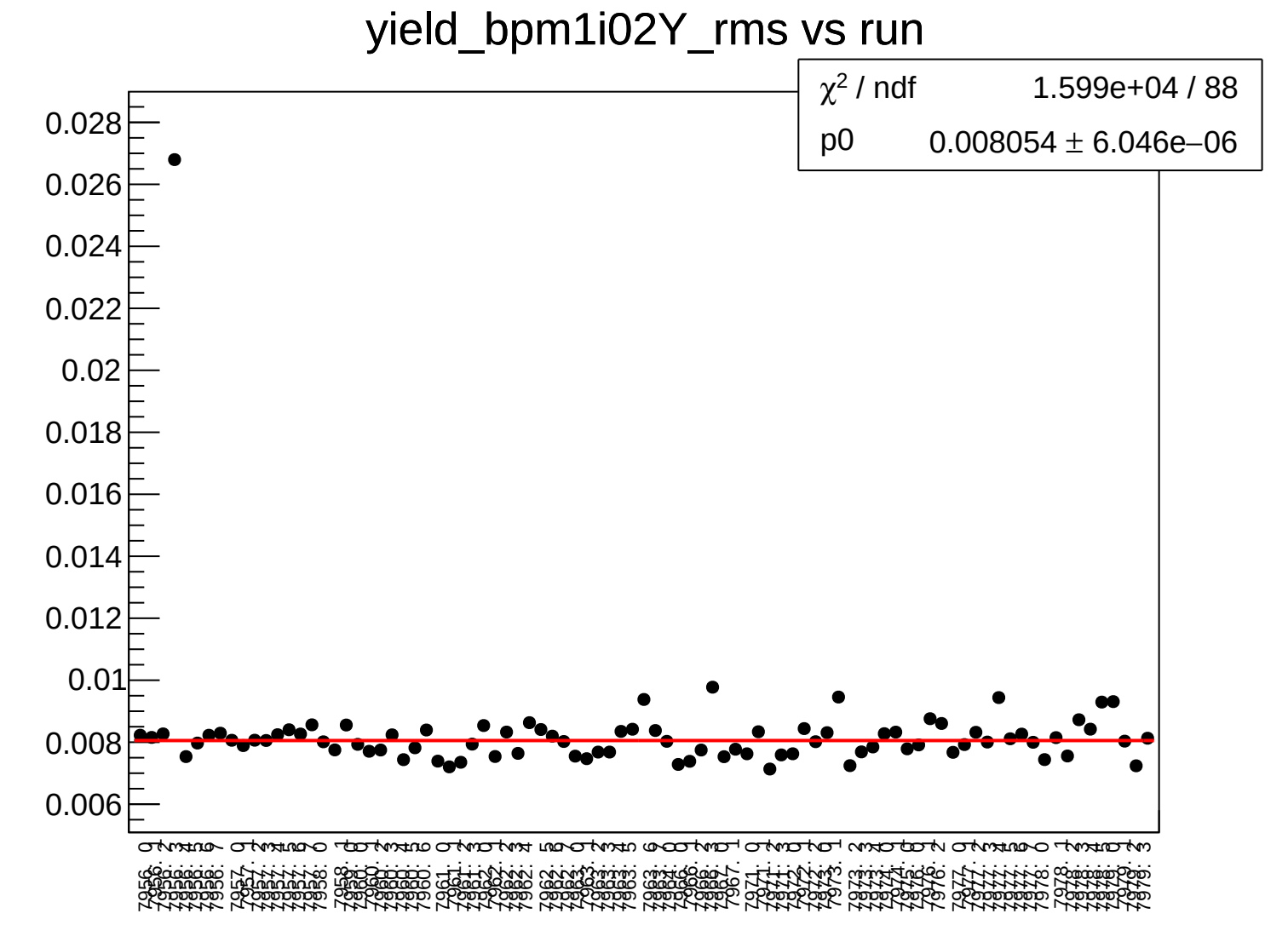

yield_bpm1i02X_mean vs run
χ² / ndf 1.508e+06 / 88
p0 0.05769 ± 1.184e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
pull
Entries 89
Mean 899.4
Std Dev 0
400
300
200
100
0
−100
−200

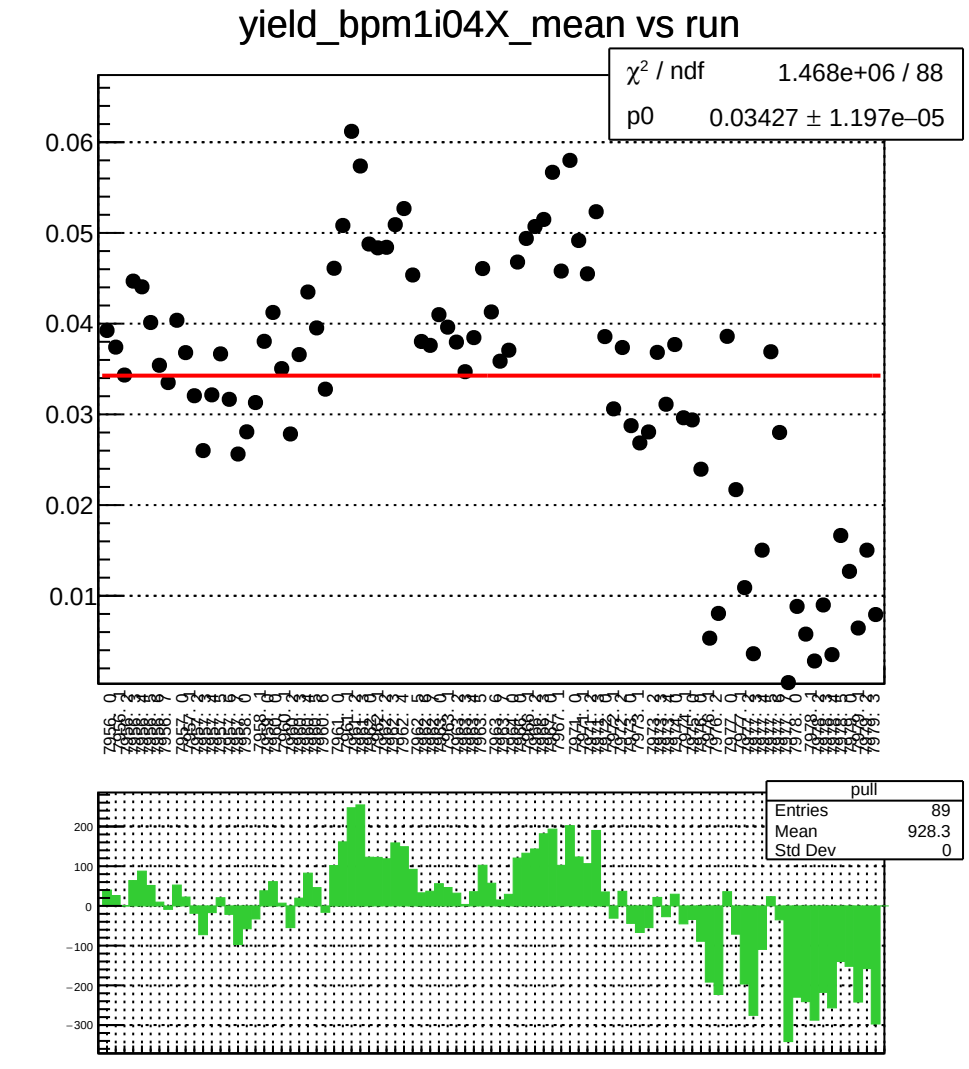

pull1D
Entries 89
Mean −3.123
Std Dev 2.781
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

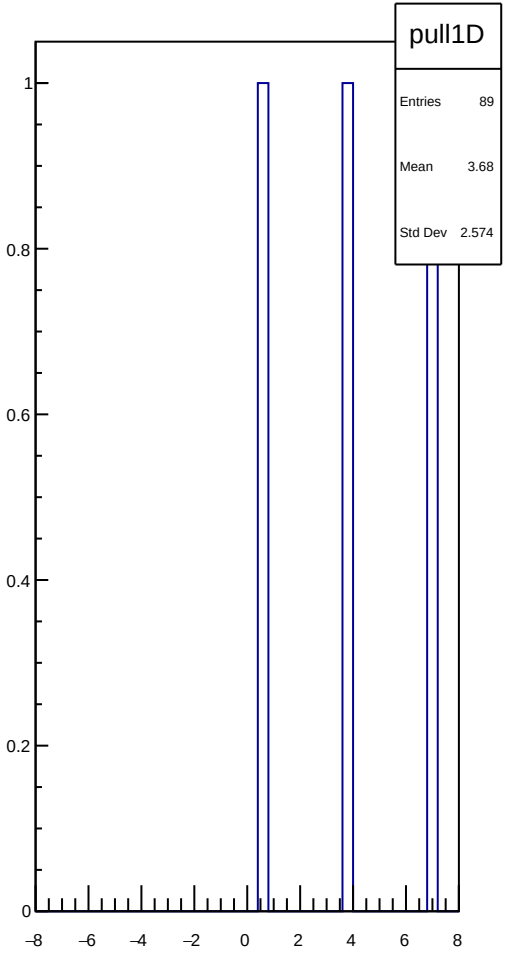

yield_bpm1i02X_rms vs run
χ² / ndf 2.448e+04 / 88
p0 0.01113 ± 8.374e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

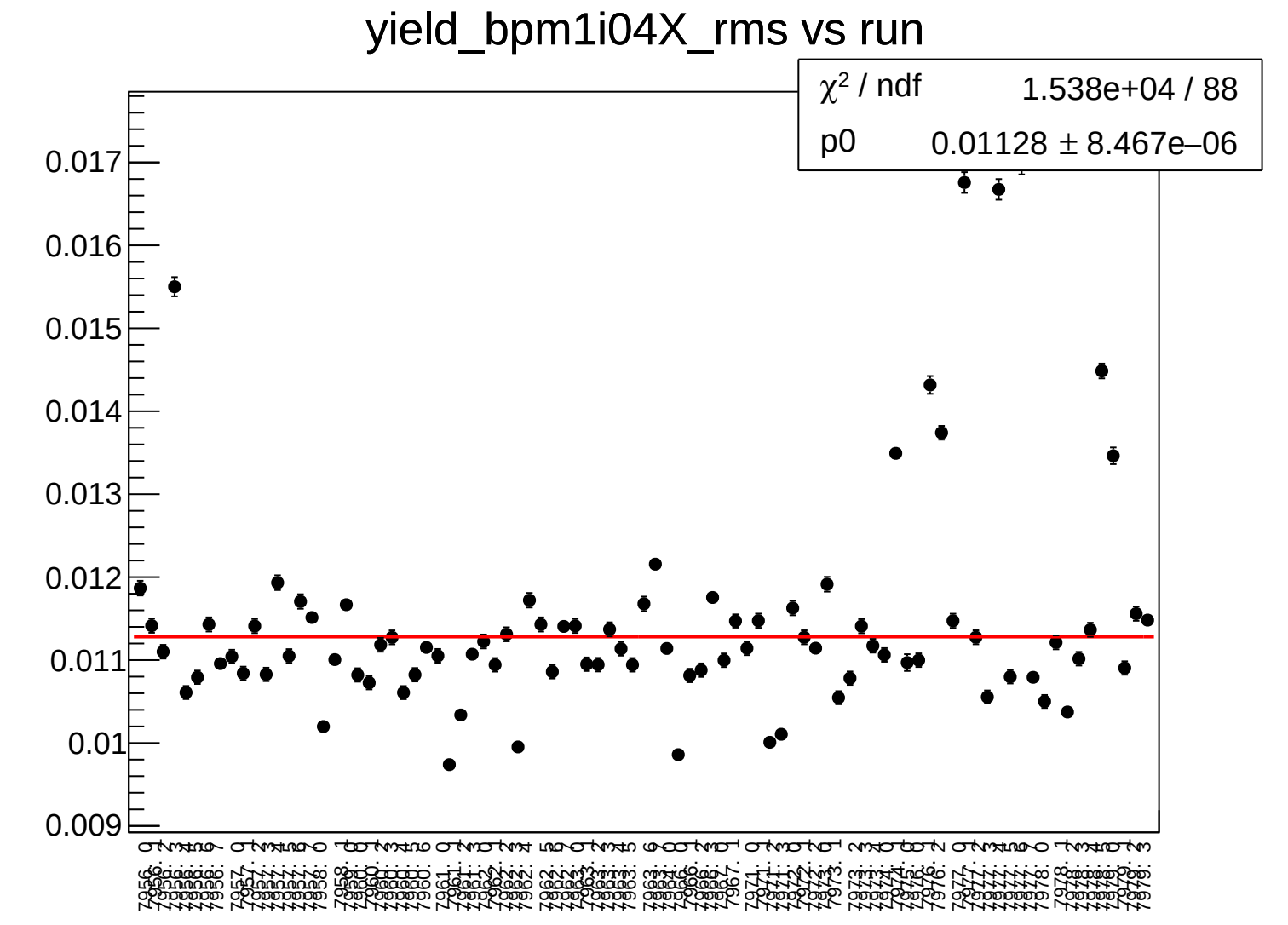

yield_bpm1i02Y_mean vs run
χ² / ndf 4.94e+05 / 88
p0 1.141± 8.55e−06
1.155
1.15
1.145
1.14
1.135
1.13
1.125
1.12
1.115
pull
Entries 89
Mean −1055
Std Dev 0
150
100
50
0
−50
−100
−150
−200

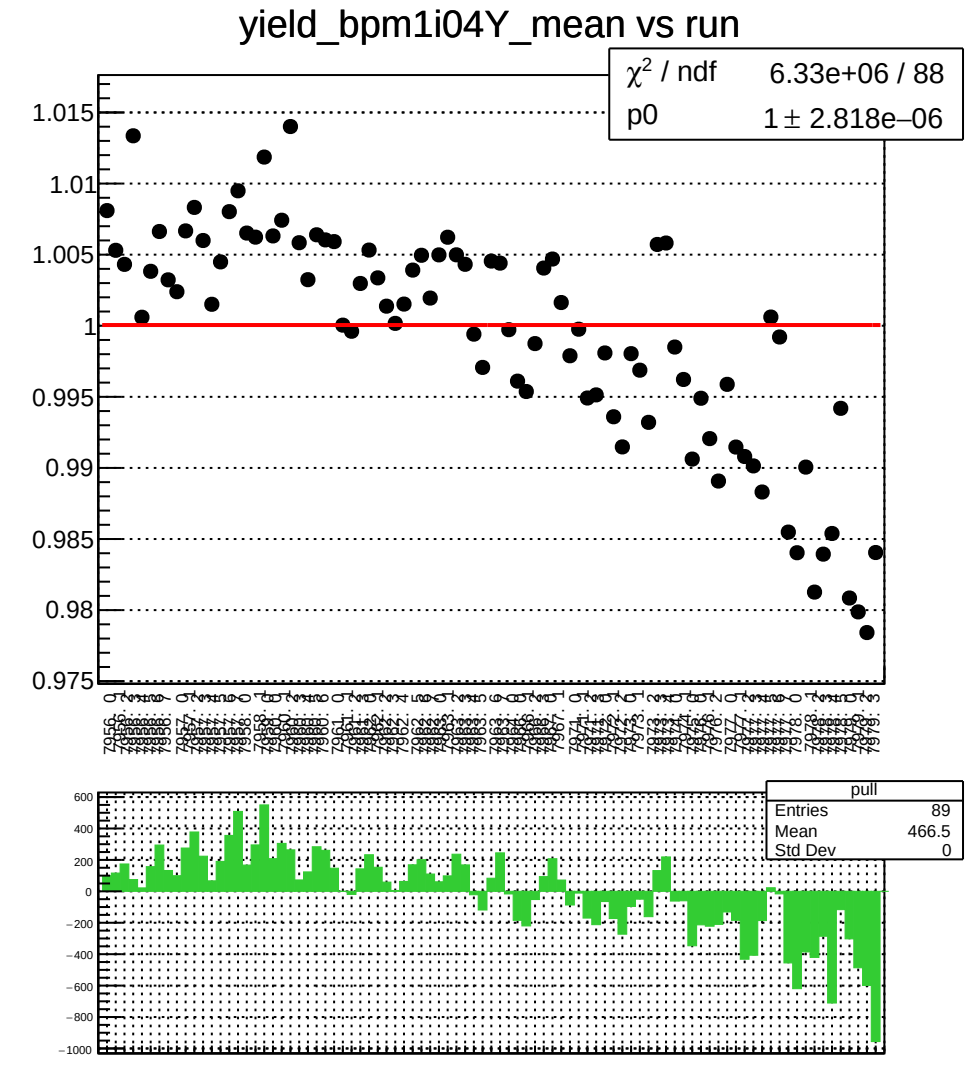

pull1D
Entries 89
Mean 1.138
Std Dev 5.069
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

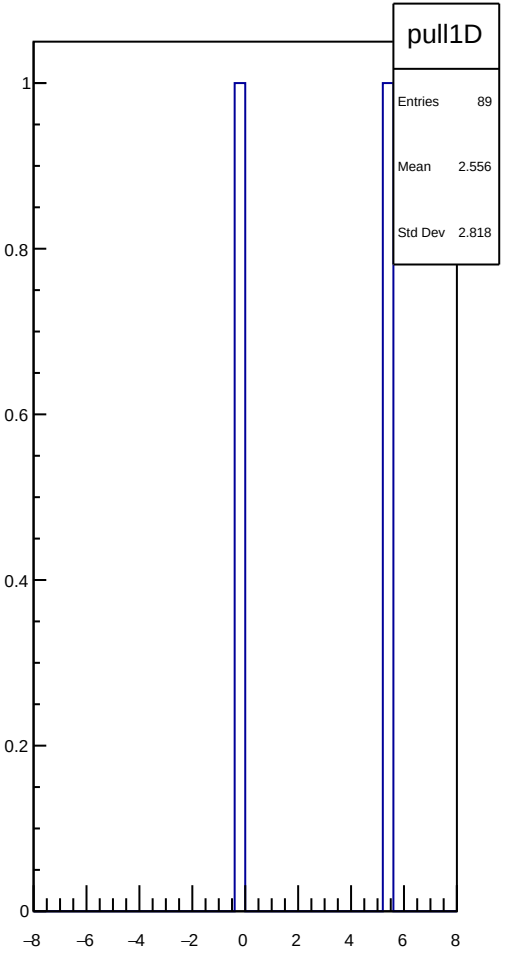

yield_bpm1i02Y_rms vs run
χ² / ndf 1.599e+04 / 88
p0 0.008054 ± 6.046e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

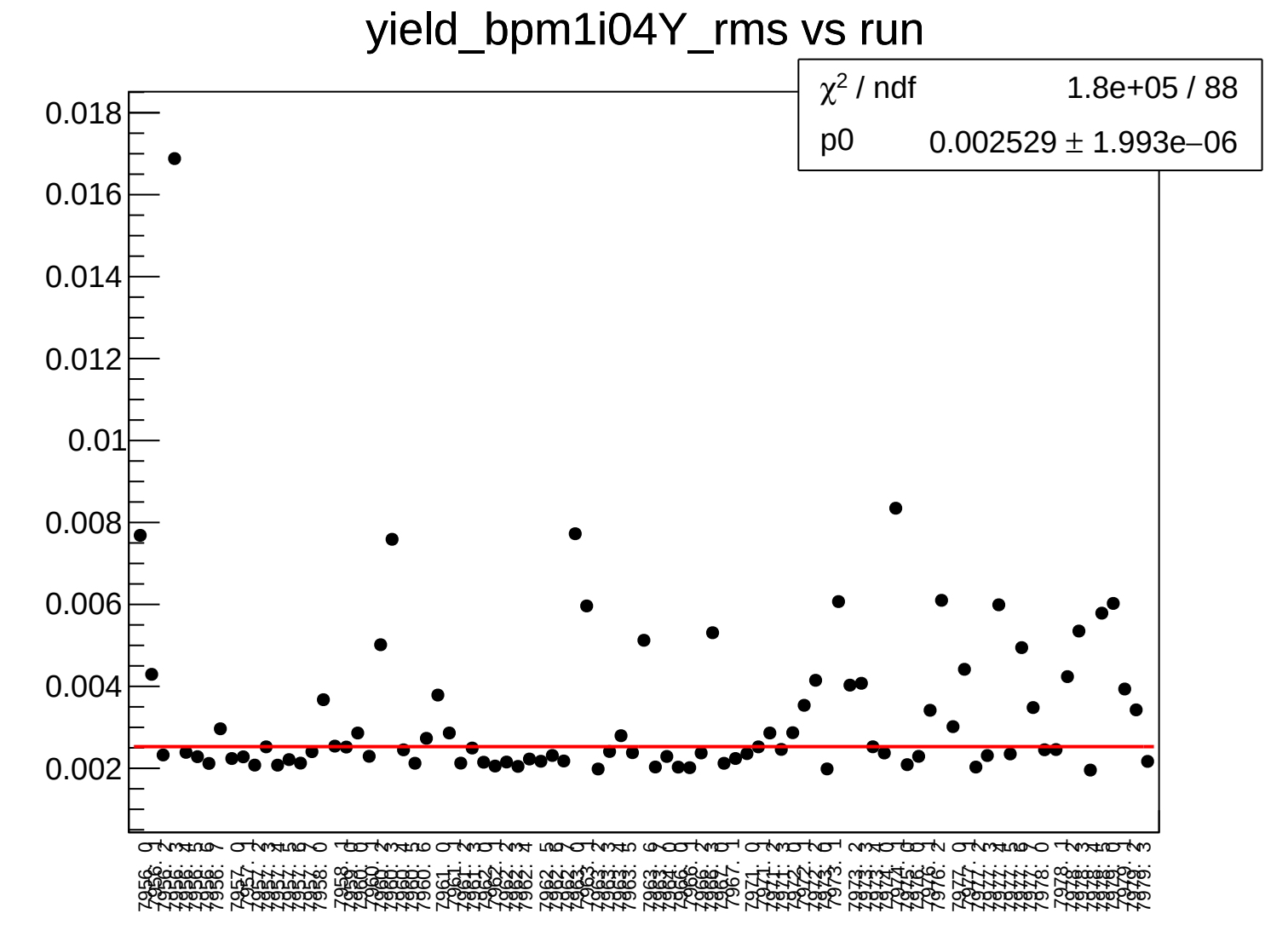

yield_bpm1i04X_mean vs run
χ² / ndf 1.468e+06 / 88
p0 0.03427 ± 1.197e−05
0.06
0.05
0.04
0.03
0.02
0.01
pull
Entries 89
Mean 928.3
Std Dev 0
200
100
0
−100
−200
−300

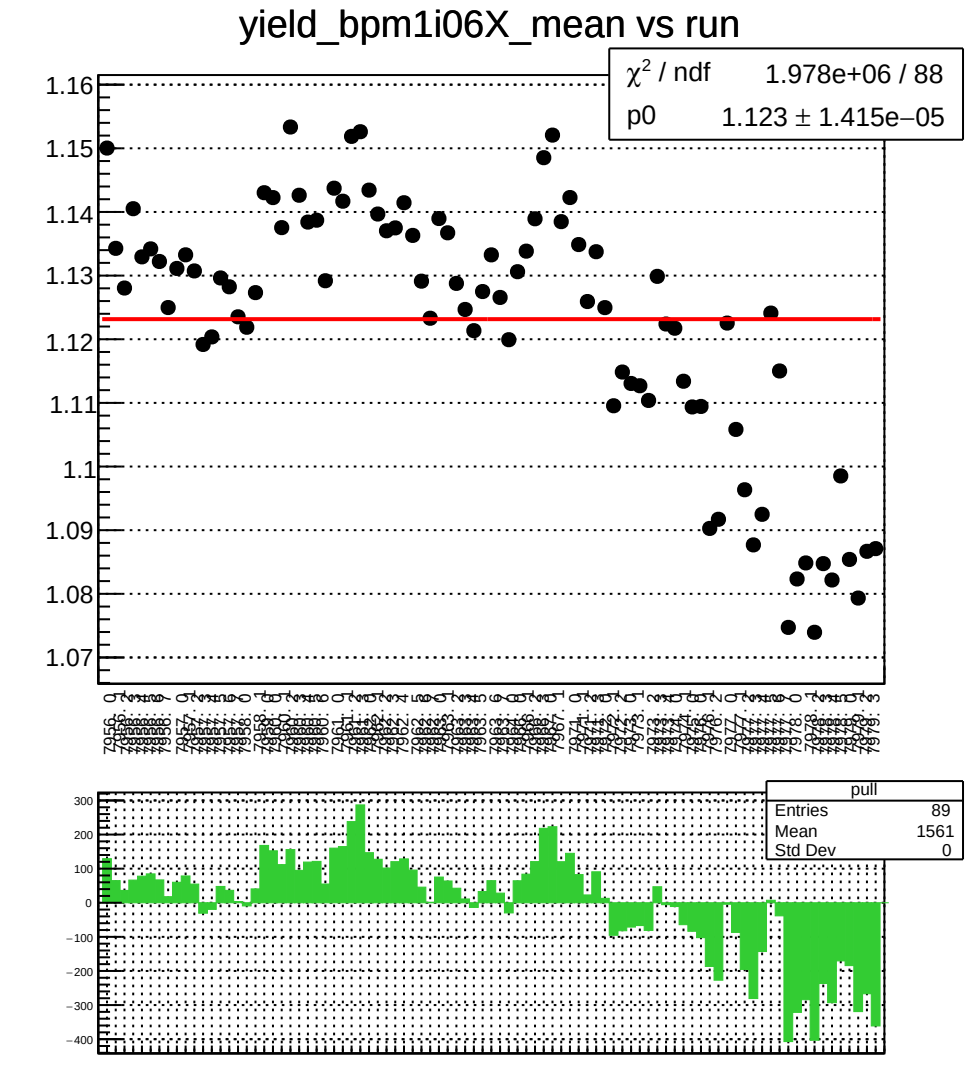

pull1D
Entries 89
Mean 3.68
Std Dev 2.574
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

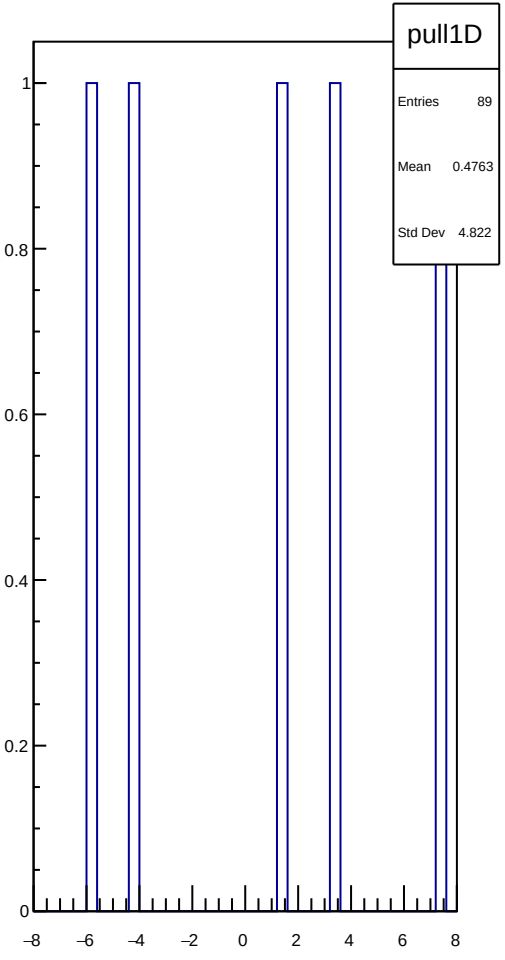

yield_bpm1i04X_rms vs run
χ² / ndf 1.538e+04 / 88
p0 0.01128 ± 8.467e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

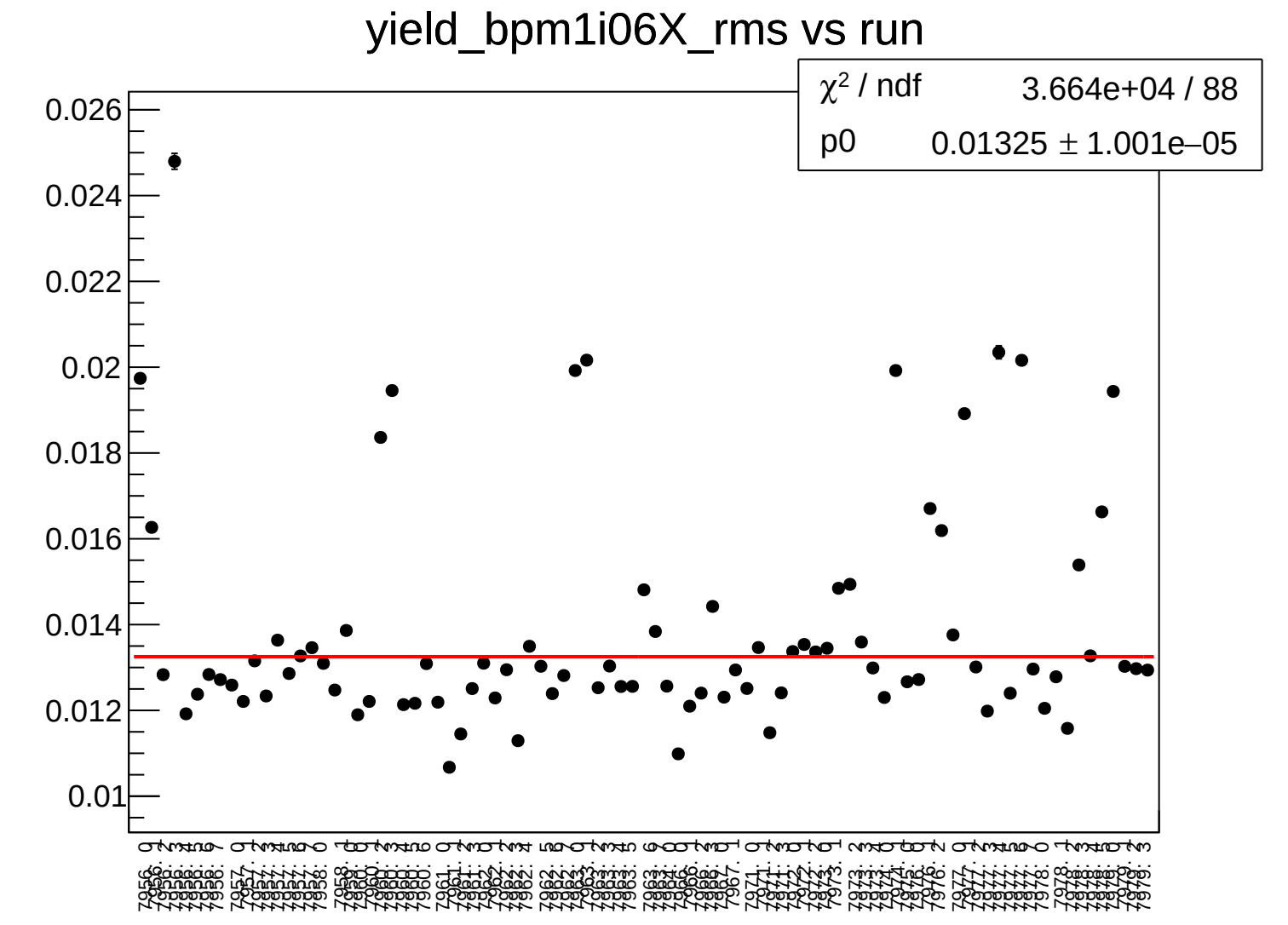

yield_bpm1i04Y_mean vs run
χ² / ndf 6.33e+06 / 88
p0 1 ± 2.818e–06
1.015
1.01
1.005
1
0.995
0.99
0.985
0.98
0.975
pull
Entries 89
Mean 466.5
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

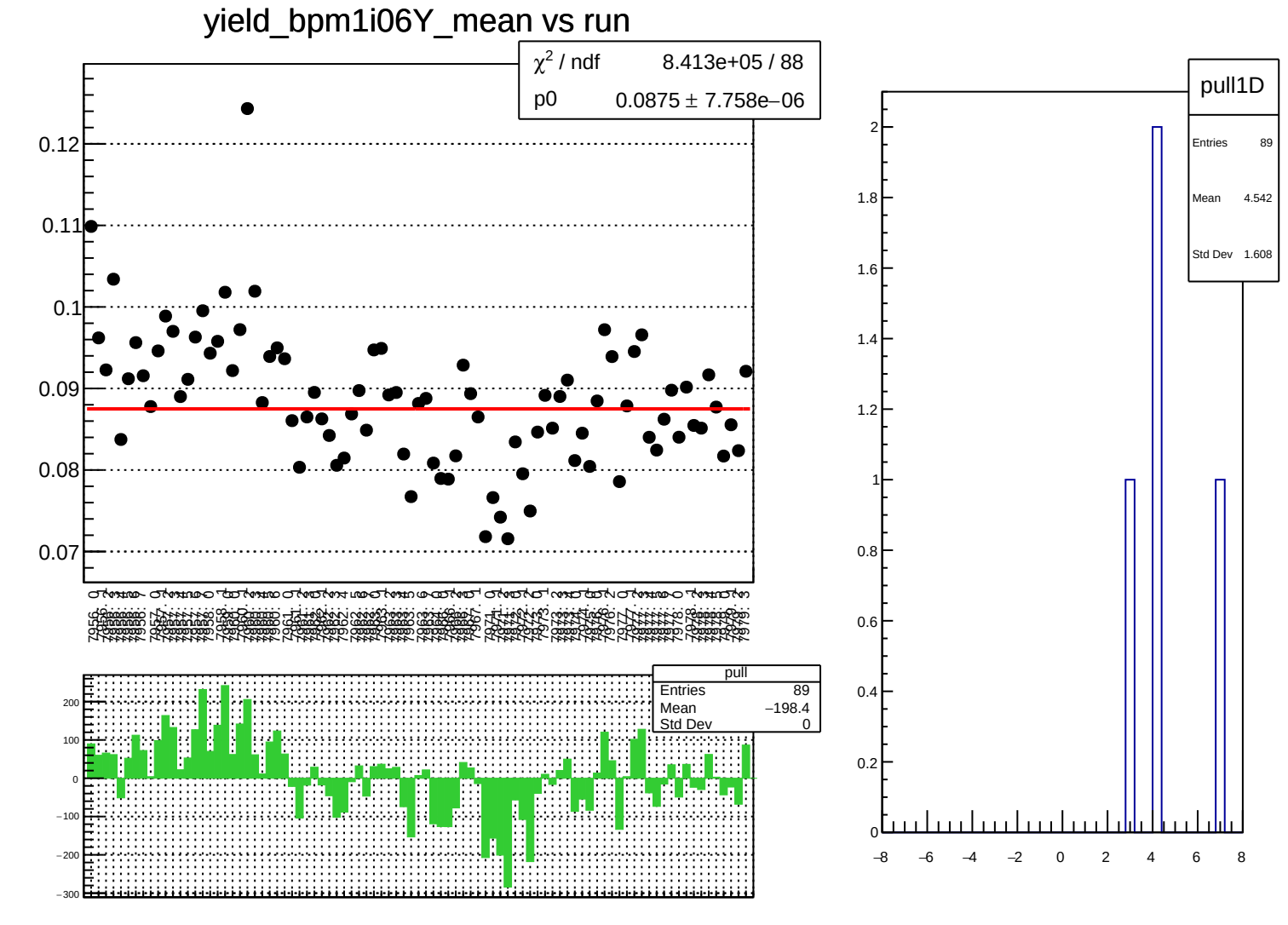

pull1D
Entries 89
Mean 2.556
Std Dev 2.818
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

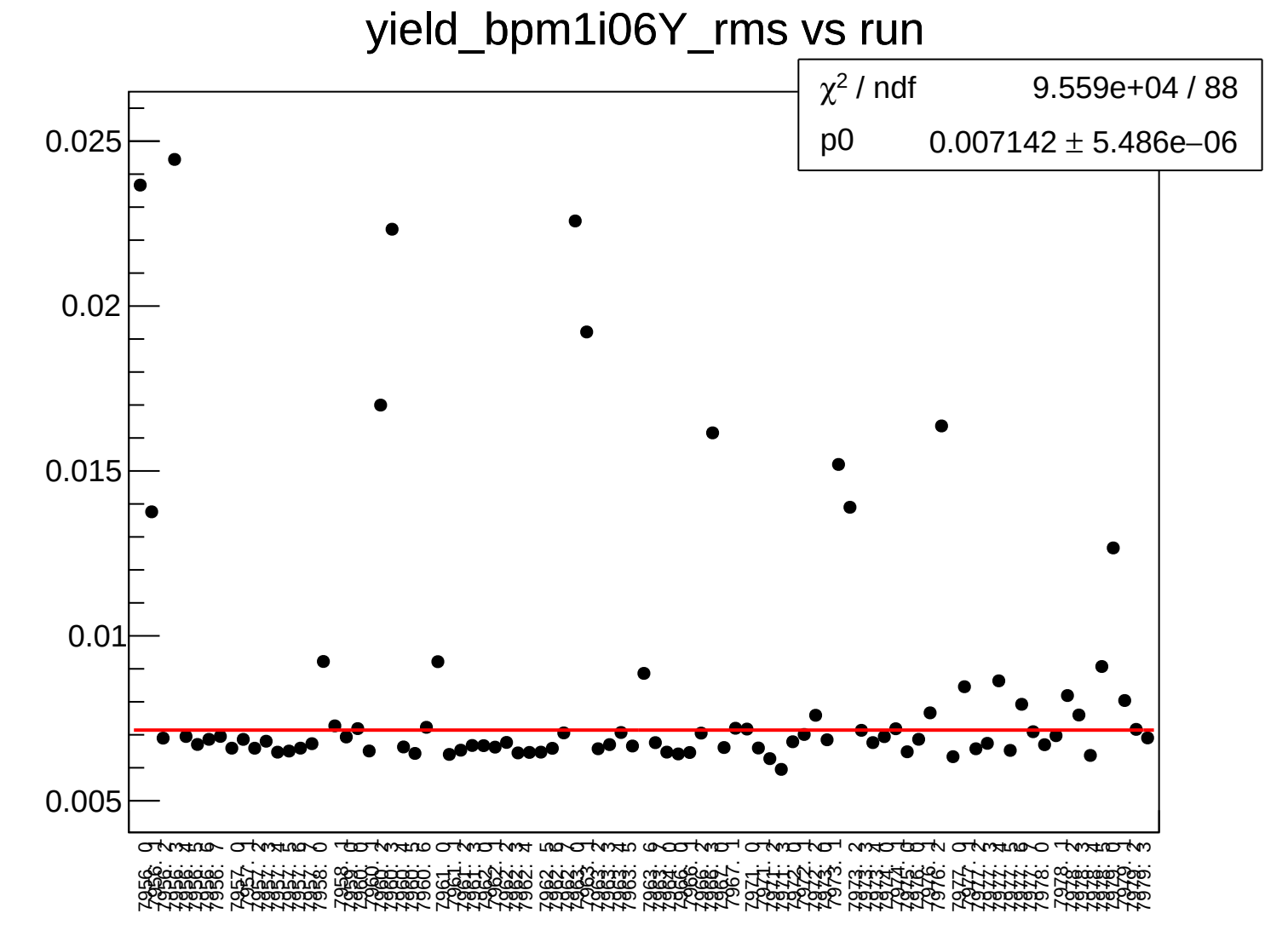

yield_bpm1i04Y_rms vs run
χ² / ndf 1.8e+05 / 88
p0 0.002529 ± 1.993e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

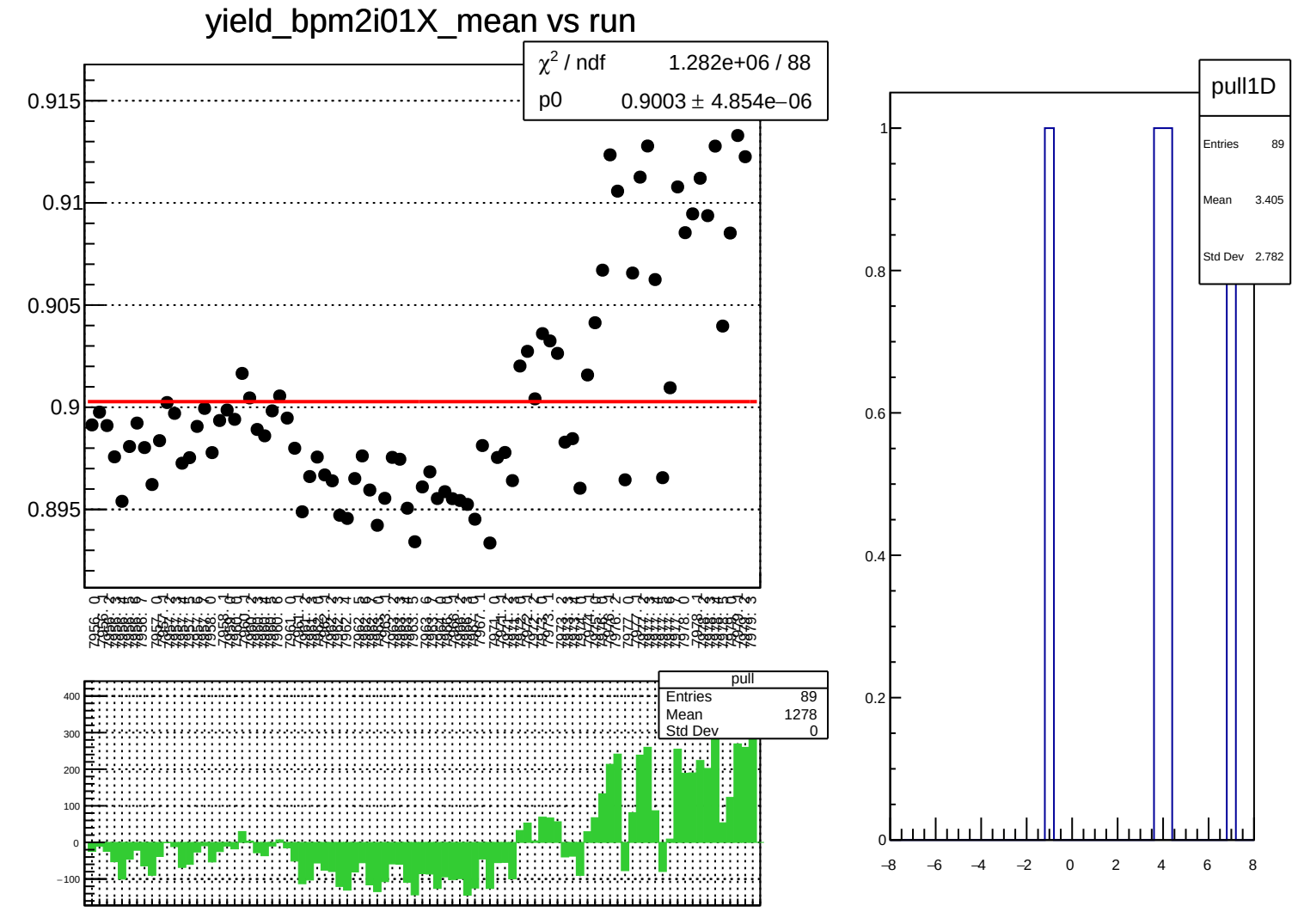

yield_bpm1i06X_mean vs run
χ² / ndf 1.978e+06 / 88
p0 1.123 ± 1.415e−05
pull
Entries 89
Mean 1561
Std Dev 0

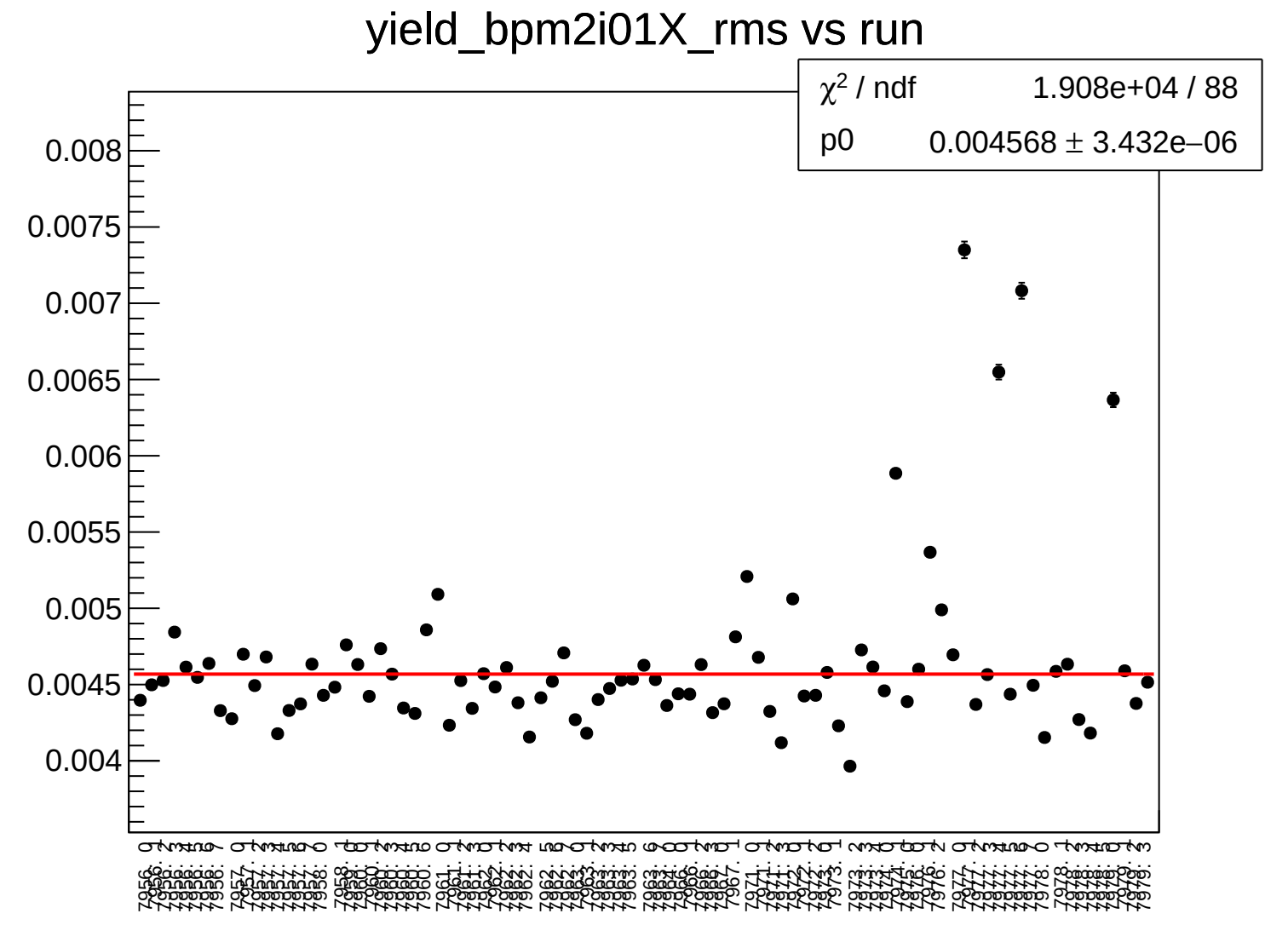

pull1D
Entries 89
Mean 0.4763
Std Dev 4.822

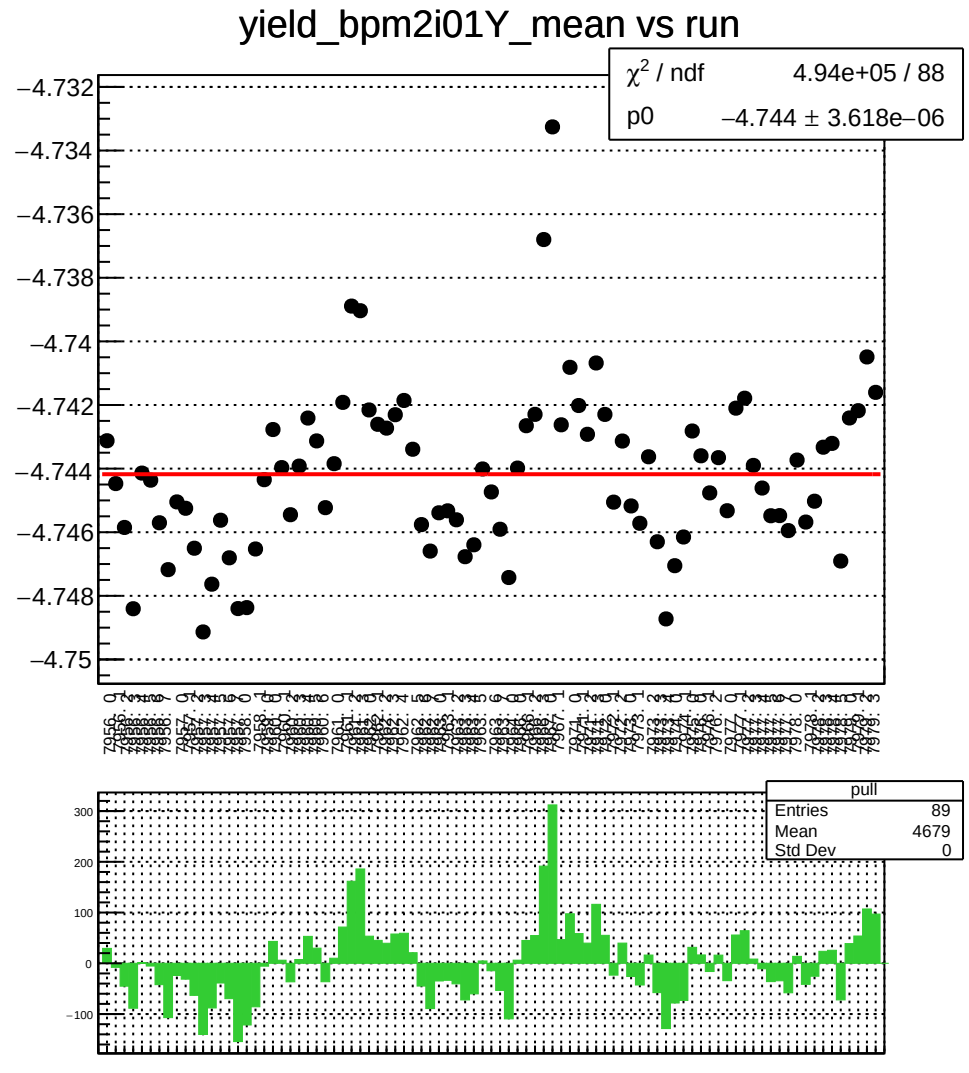

yield_bpm1i06X_rms vs run
χ² / ndf 3.664e+04 / 88
p0 0.01325 ± 1.001e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

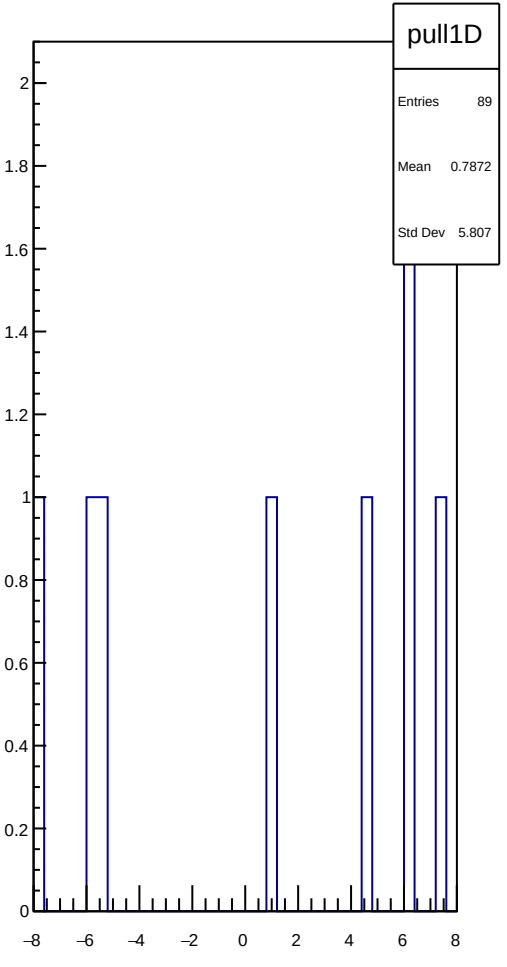

yield_bpm1i06Y_mean vs run
χ² / ndf 8.413e+05 / 88
p0 0.0875 ± 7.758e−06
0.12
0.11
0.1
0.09
0.08
0.07
pull
Entries 89
Mean −198.4
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 89
Mean 4.542
Std Dev 1.608
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

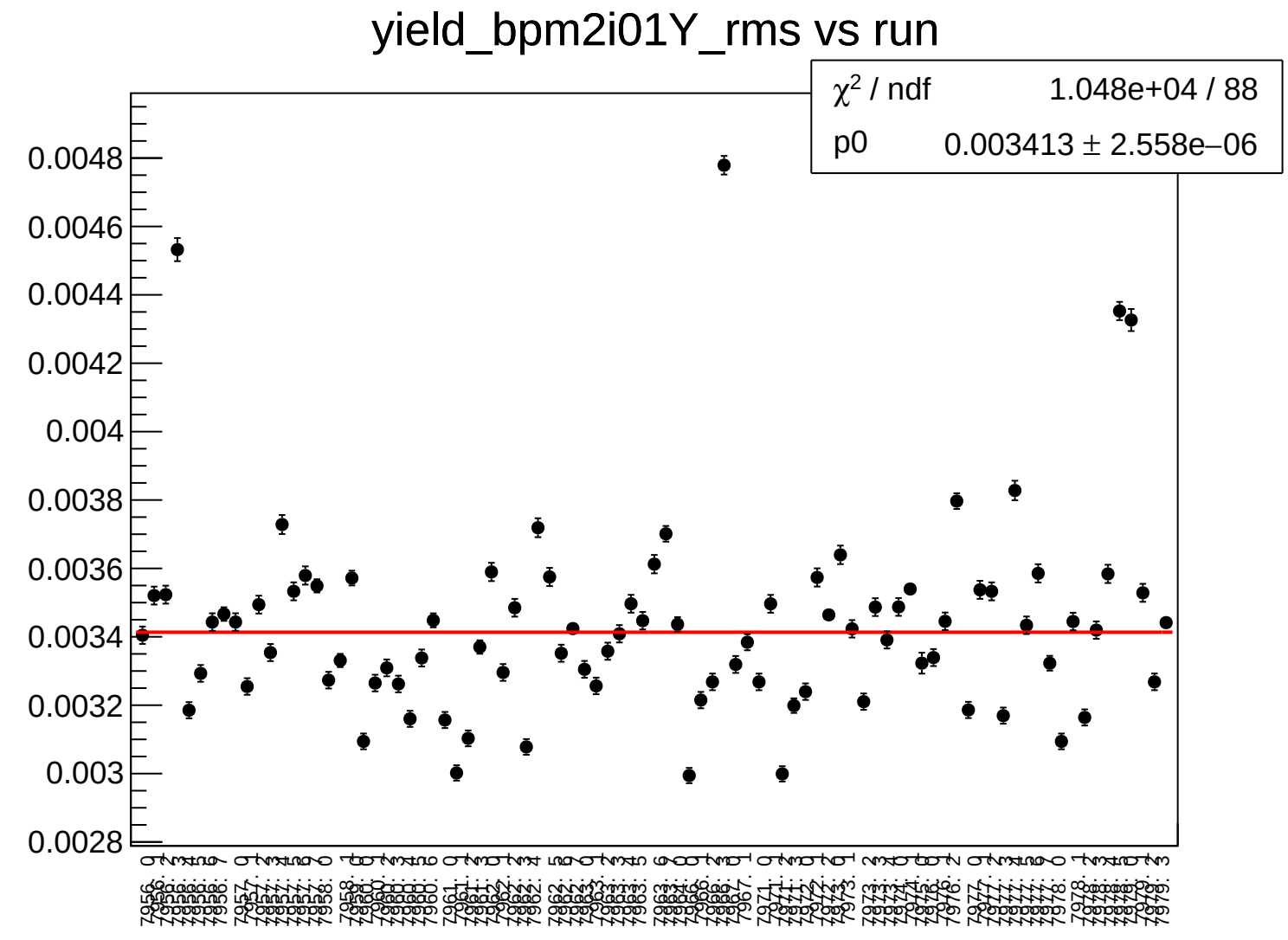

yield_bpm1i06Y_rms vs run
χ² / ndf 9.559e+04 / 88
p0 0.007142 ± 5.486e−06
0.025
0.02
0.015
0.01
0.005

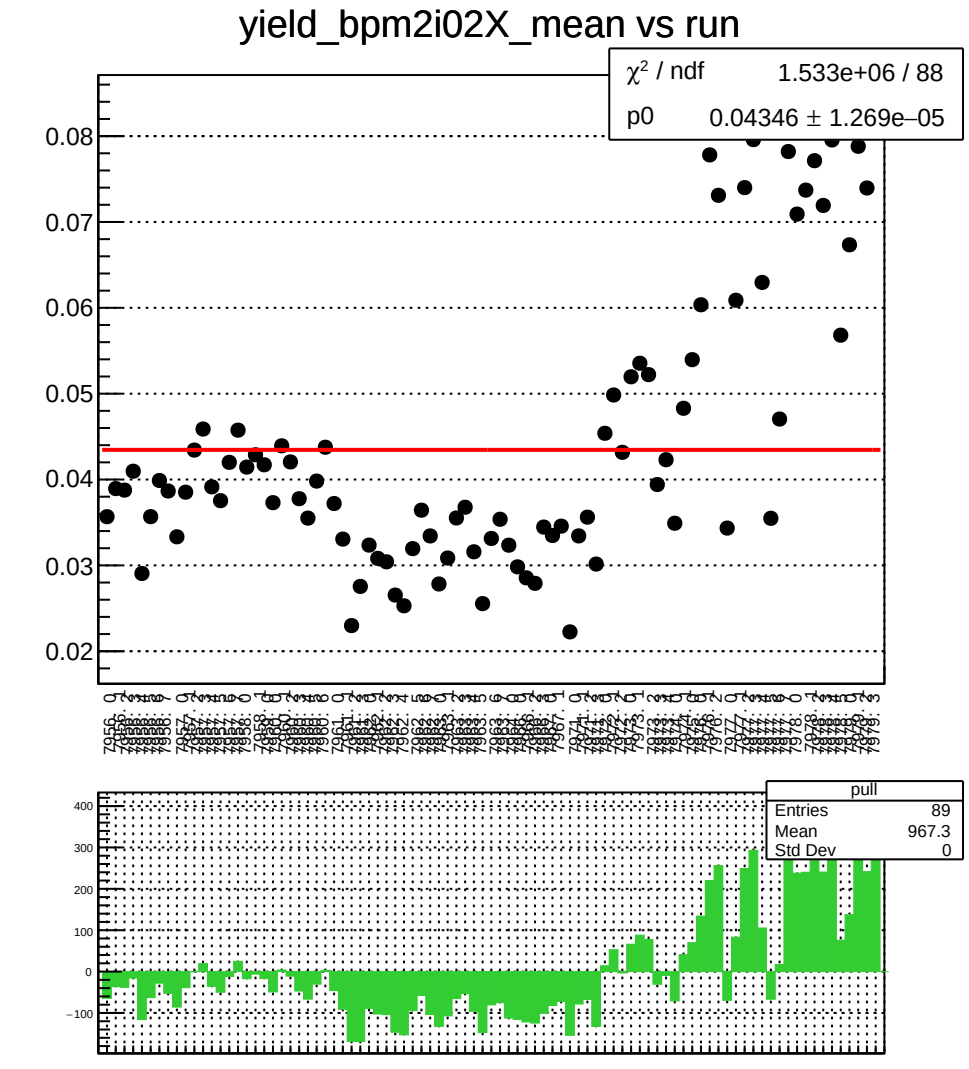

yield_bpm2i01X_mean vs run
χ² / ndf 1.282e+06 / 88
p0 0.9003 ± 4.854e−06
0.915
0.91
0.905
0.9
0.895
pull
Entries 89
Mean 1278
Std Dev 0
400
300
200
100
0
−100
pull1D
Entries 89
Mean 3.405
Std Dev 2.782
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

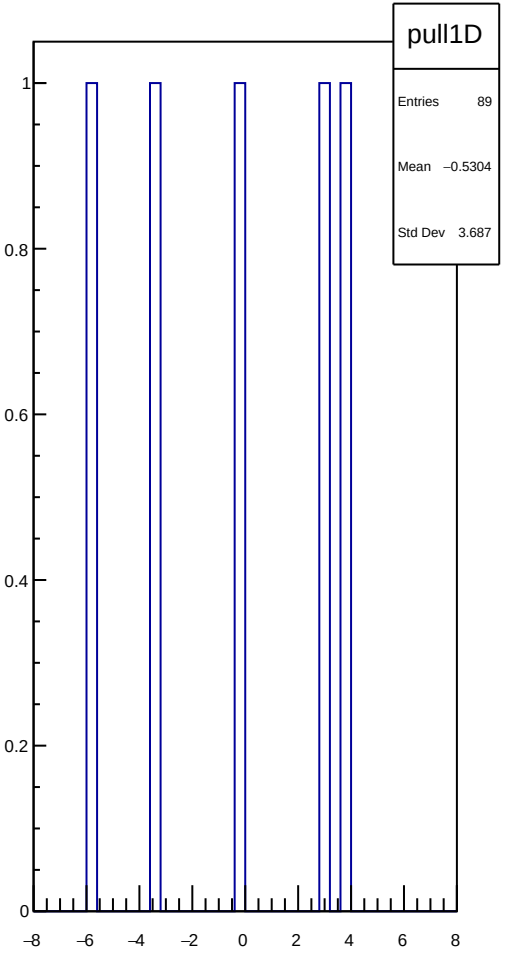

yield_bpm2i01X_rms vs run
χ² / ndf 1.908e+04 / 88
p0 0.004568 ± 3.432e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

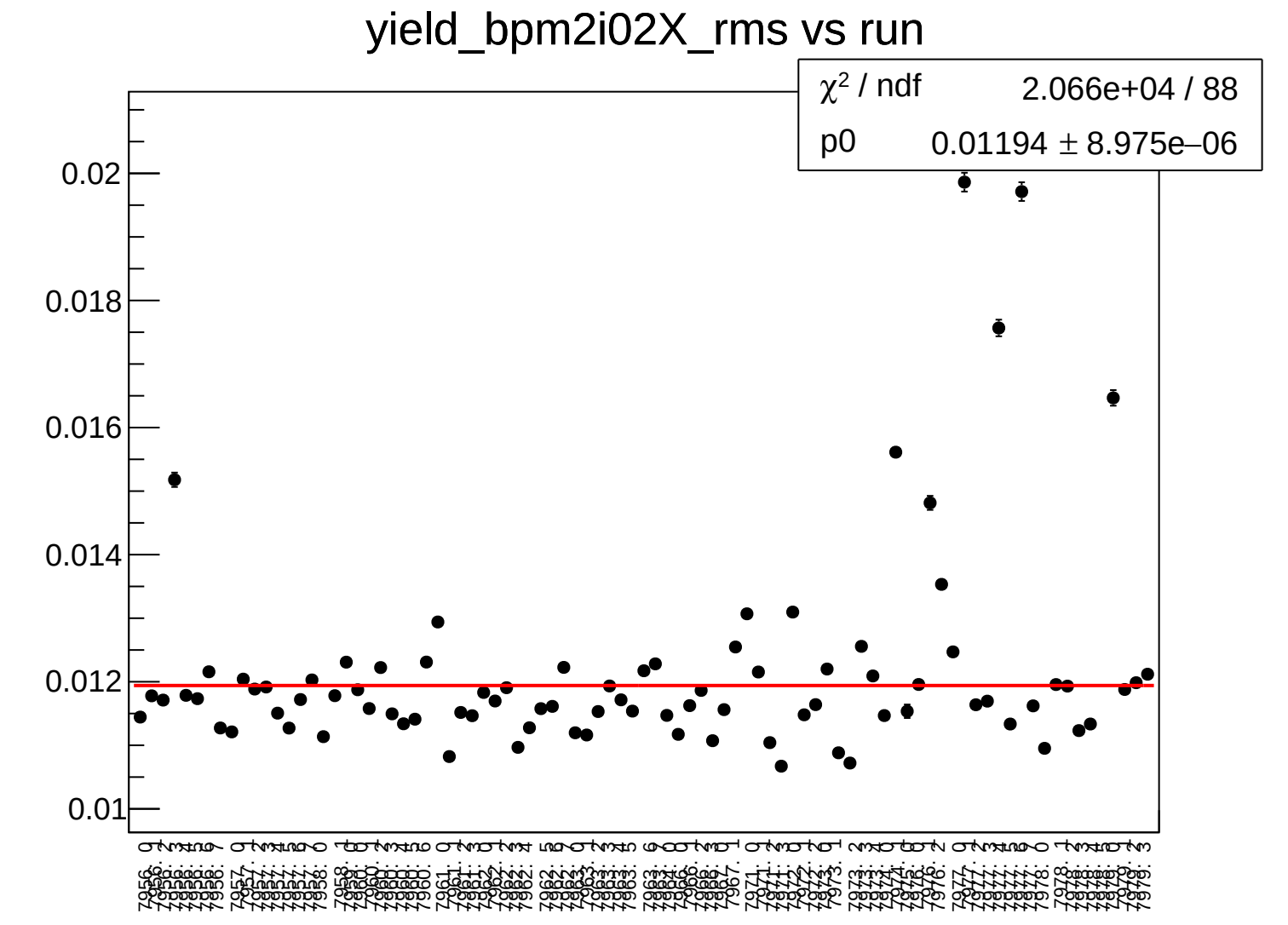

yield_bpm2i01Y_mean vs run
χ² / ndf 4.94e+05 / 88
p0 −4.744 ± 3.618e−06
−4.732
−4.734
−4.736
−4.738
−4.74
−4.742
−4.744
−4.746
−4.748
−4.75
pull
Entries 89
Mean 4679
Std Dev 0
300
200
100
0
−100

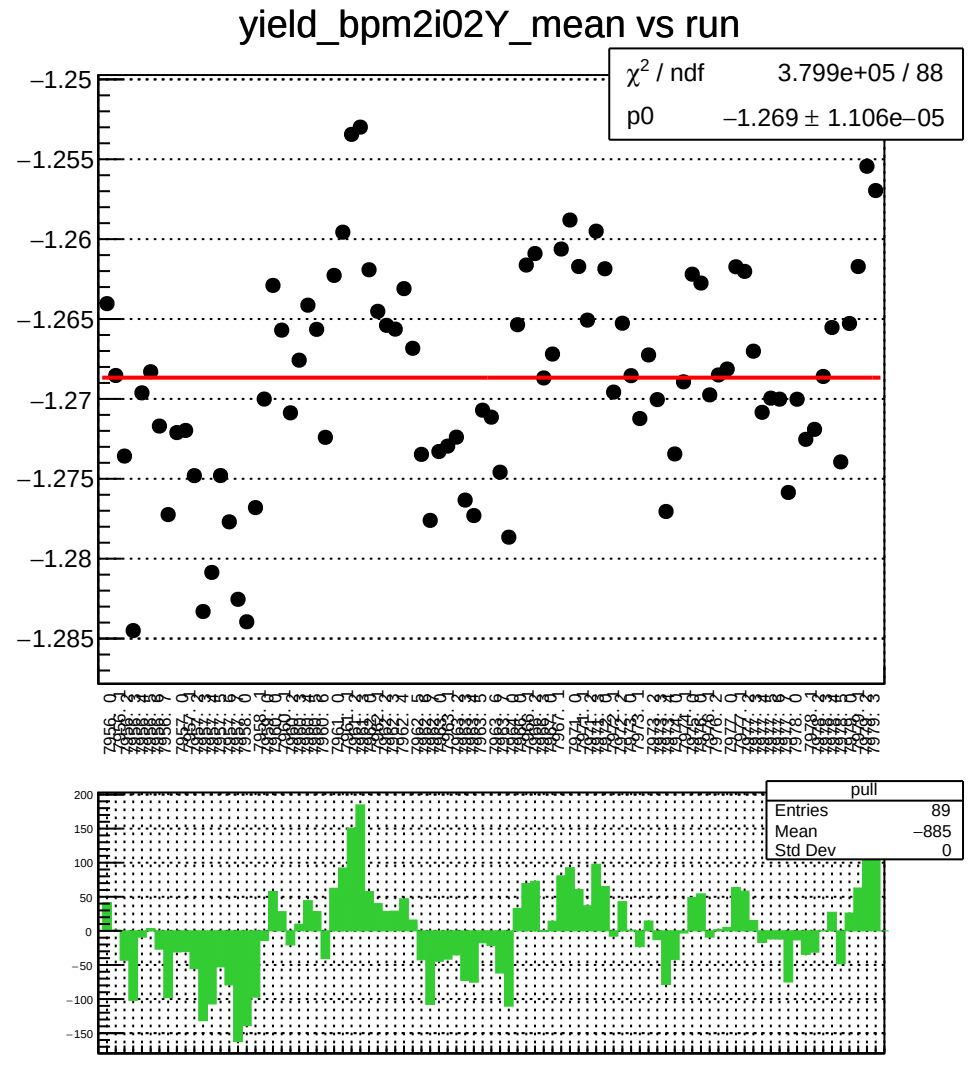

pull1D
Entries 89
Mean 0.7872
Std Dev 5.807
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

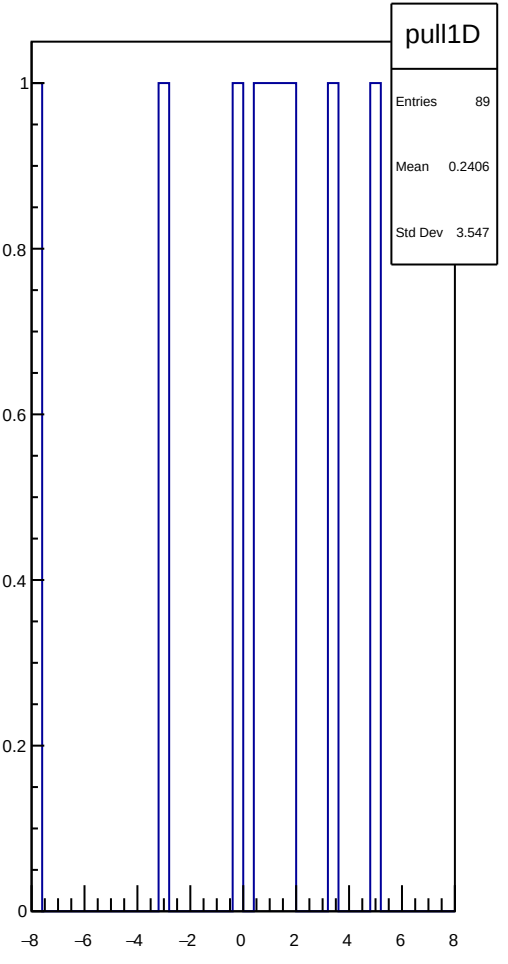

yield_bpm2i01Y_rms vs run
χ² / ndf 1.048e+04 / 88
p0 0.003413 ± 2.558e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

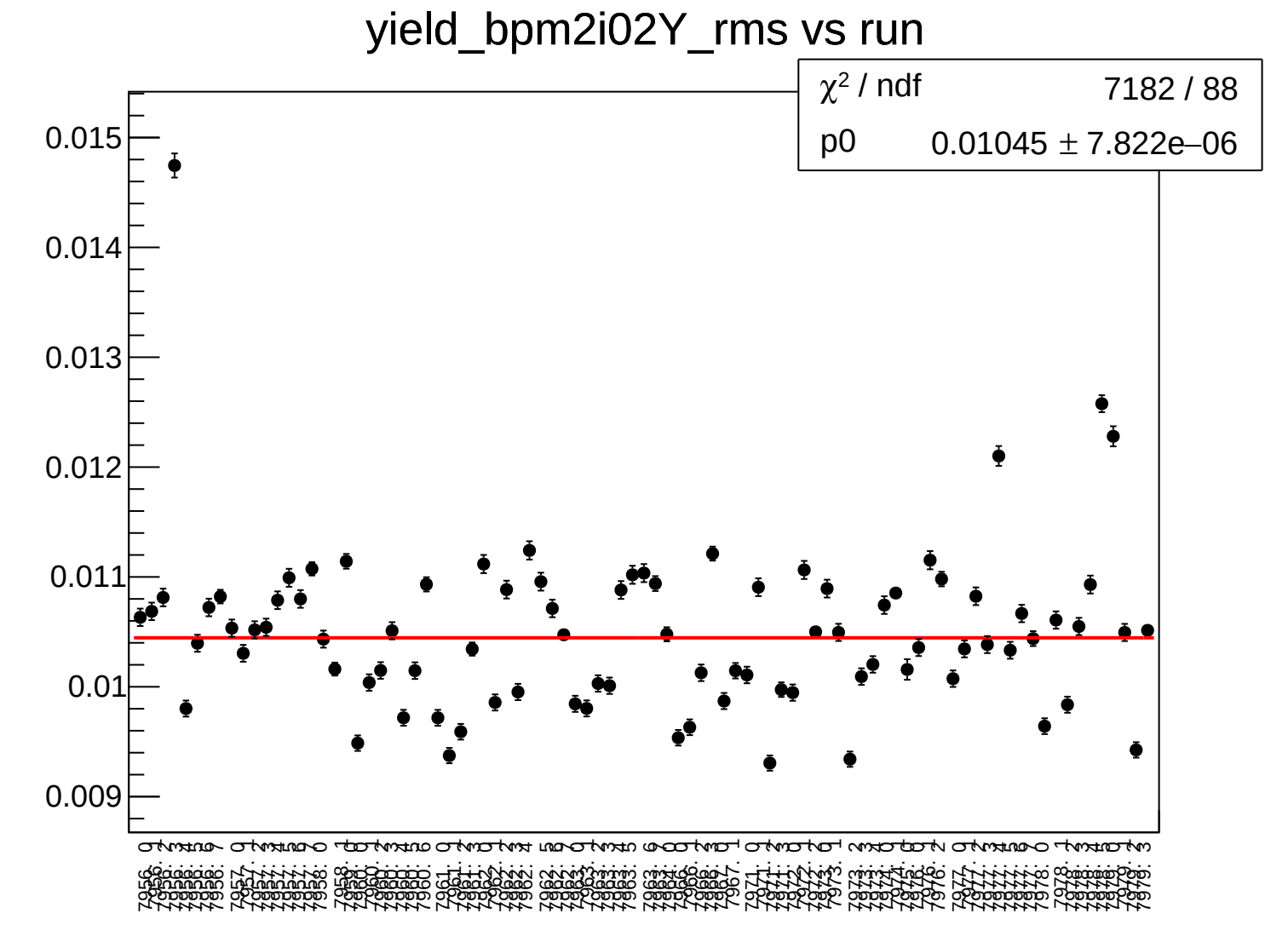

yield_bpm2i02X_mean vs run
χ² / ndf 1.533e+06 / 88
p0 0.04346 ± 1.269e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 89
Mean 967.3
Std Dev 0
400
300
200
100
0
−100

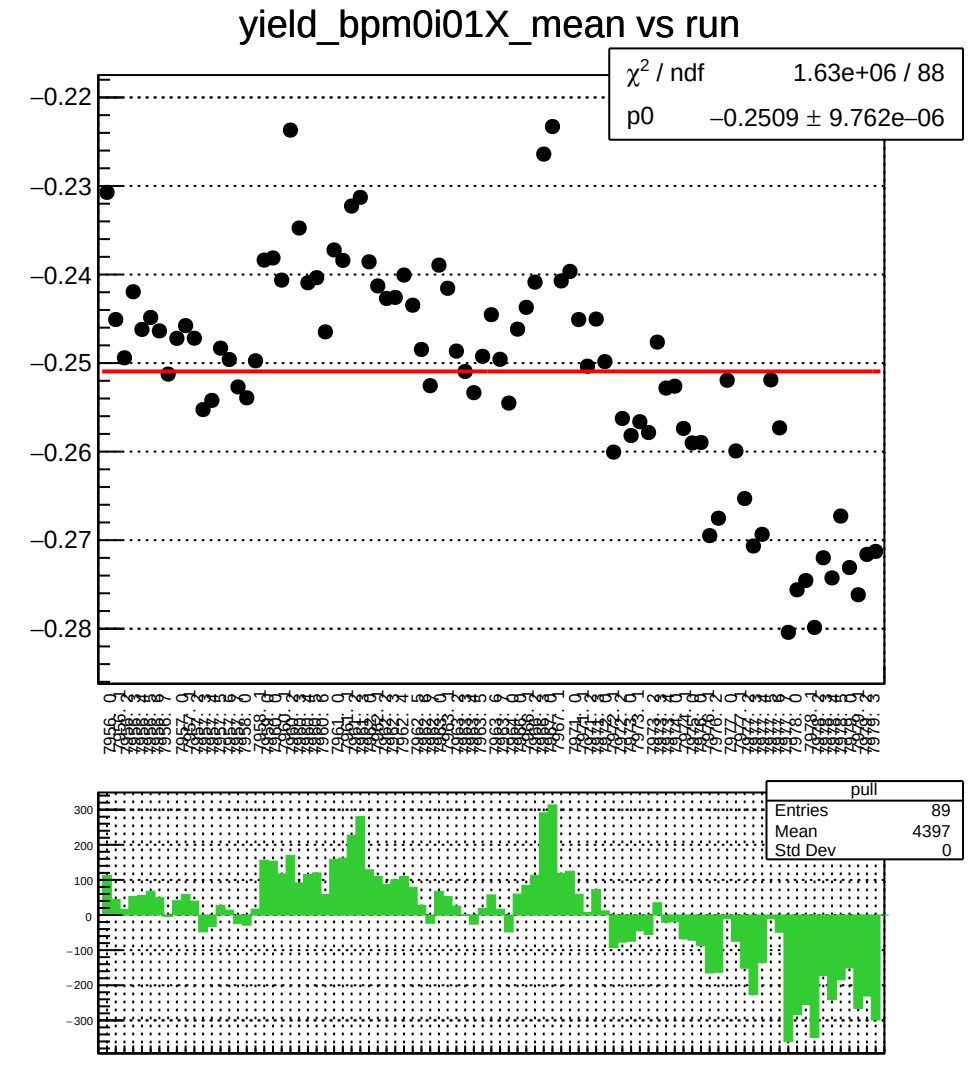

pull1D
Entries 89
Mean −0.5304
Std Dev 3.687
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

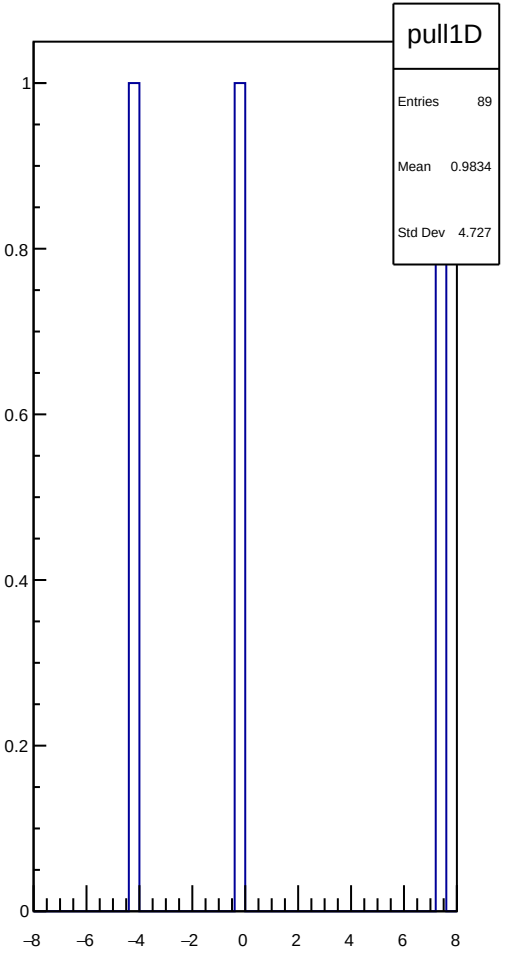

yield_bpm2i02X_rms vs run
χ² / ndf 2.066e+04 / 88
p0 0.01194 ± 8.975e−06
0.02
0.018
0.016
0.014
0.012
0.01

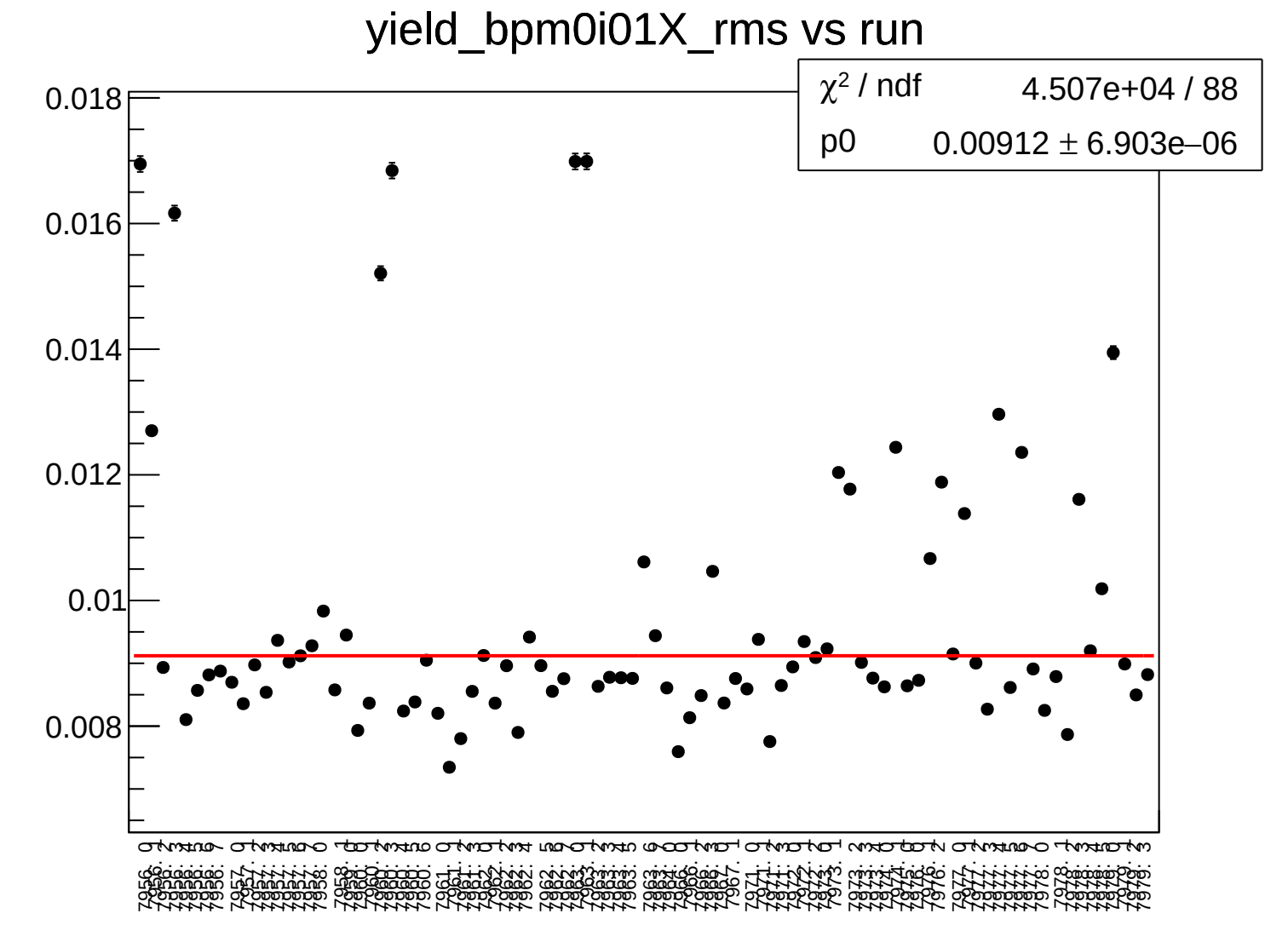

yield_bpm2i02Y_mean vs run
χ² / ndf 3.799e+05 / 88
p0 −1.269 ± 1.106e−05
−1.25
−1.255
−1.26
−1.265
−1.27
−1.275
−1.28
−1.285
pull
Entries 89
Mean −885
Std Dev 0
200
150
100
50
0
−50
−100
−150

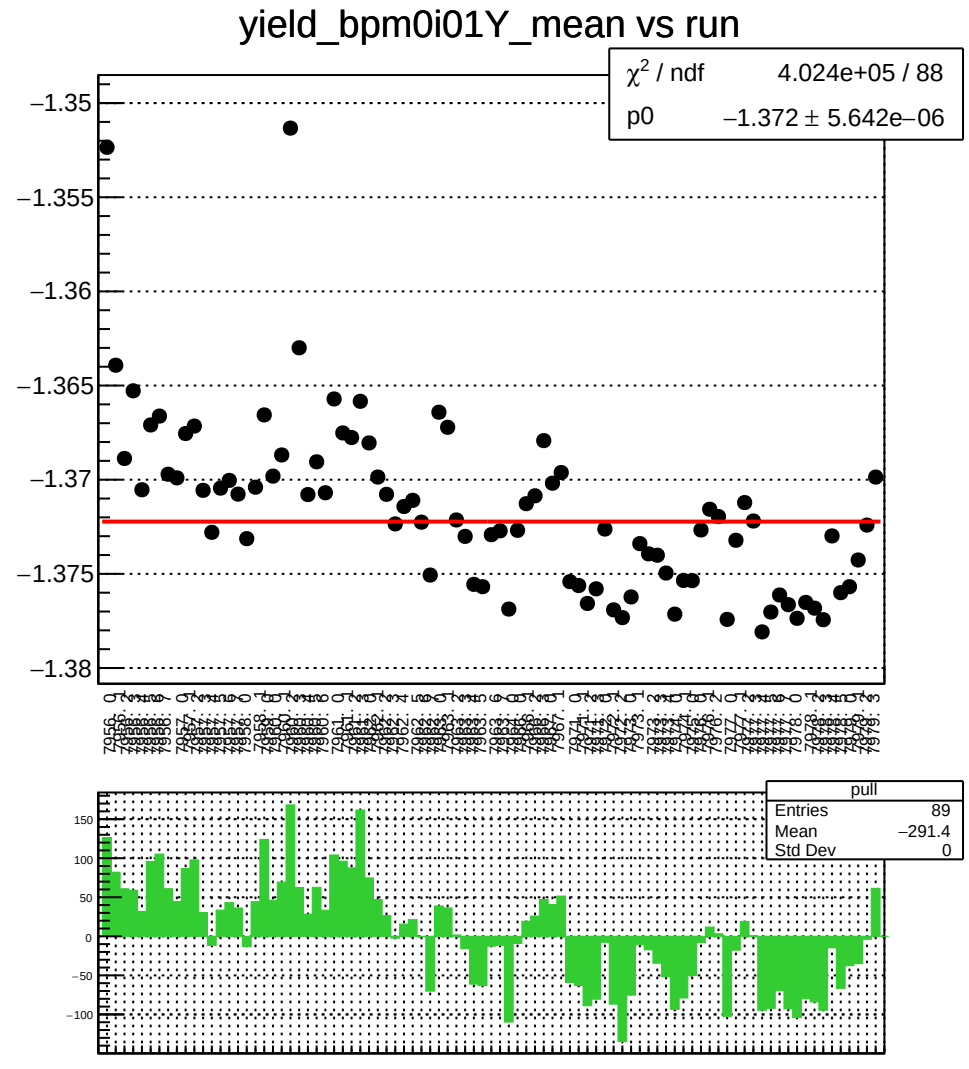

pull1D
Entries 89
Mean 0.2406
Std Dev 3.547
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

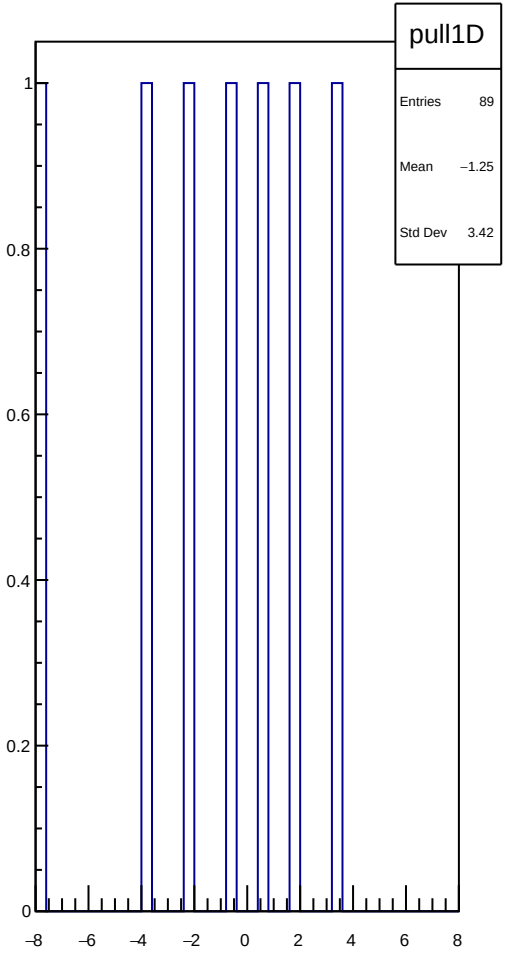

yield_bpm2i02Y_rms vs run
χ² / ndf 7182 / 88
p0 0.01045 ± 7.822e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009

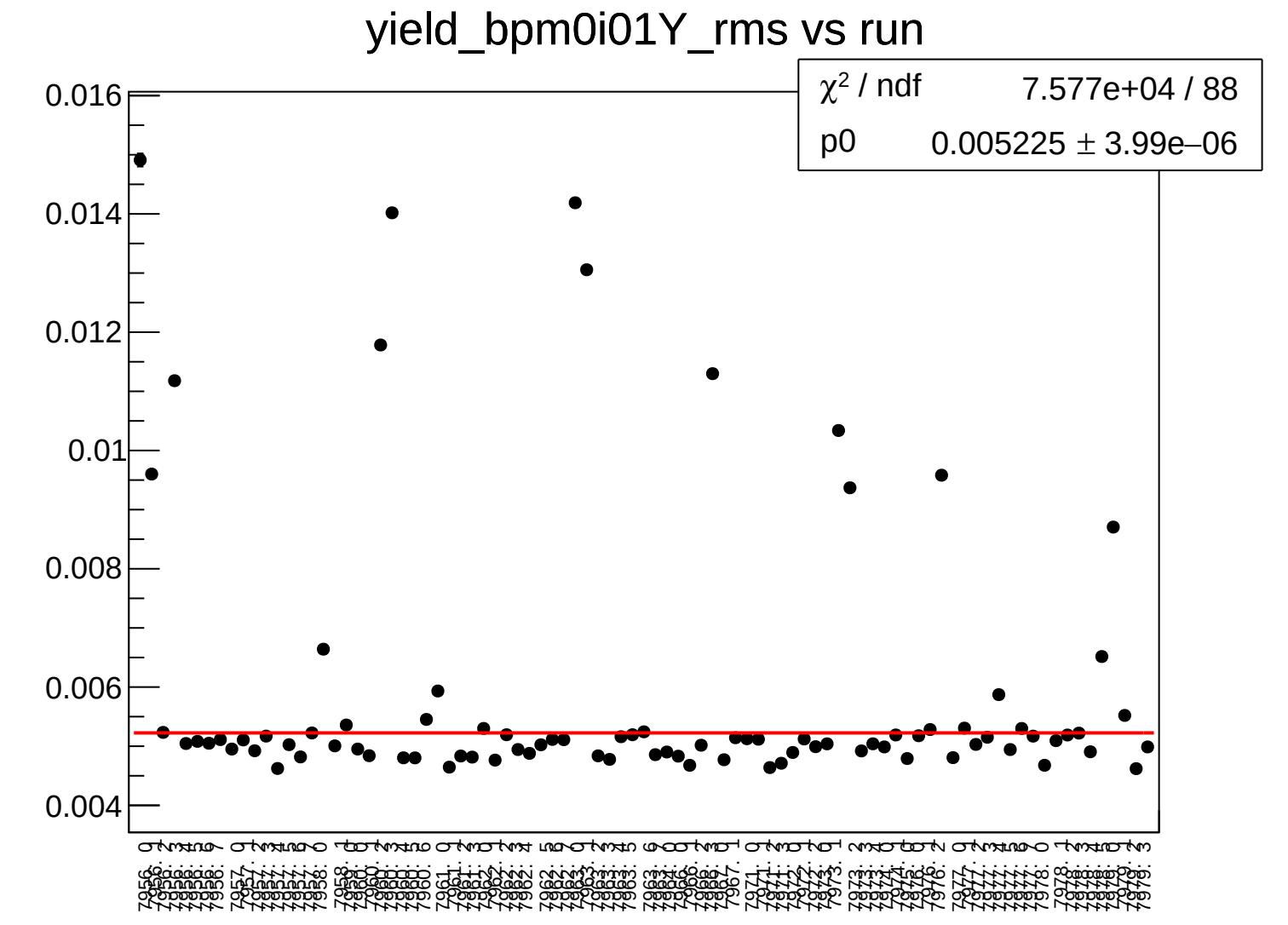

yield_bpm0i01X_mean vs run
χ² / ndf 1.63e+06 / 88
p0 −0.2509 ± 9.762e−06
−0.22
−0.23
−0.24
−0.25
−0.26
−0.27
−0.28
pull
Entries 89
Mean 4397
Std Dev 0
300
200
100
0
−100
−200
−300

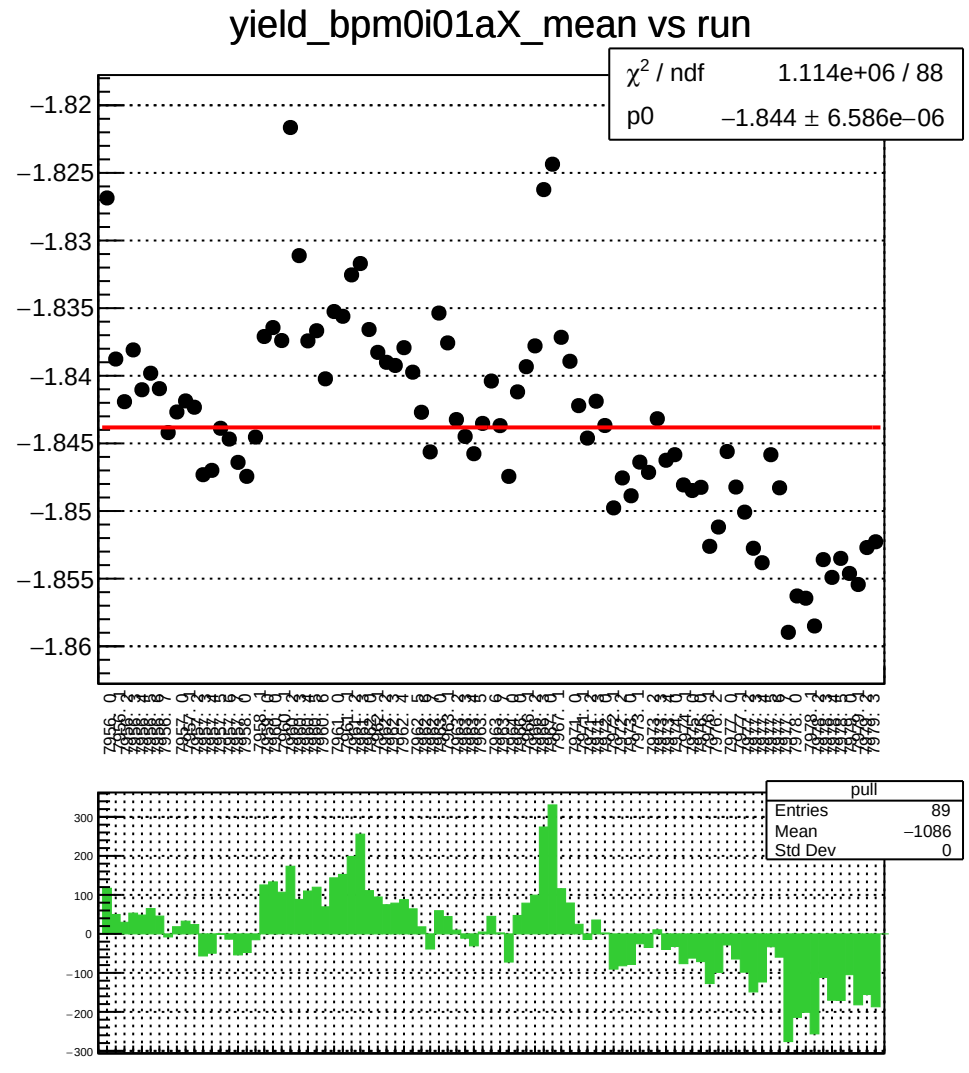

pull1D
Entries 89
Mean 0.9834
Std Dev 4.727
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

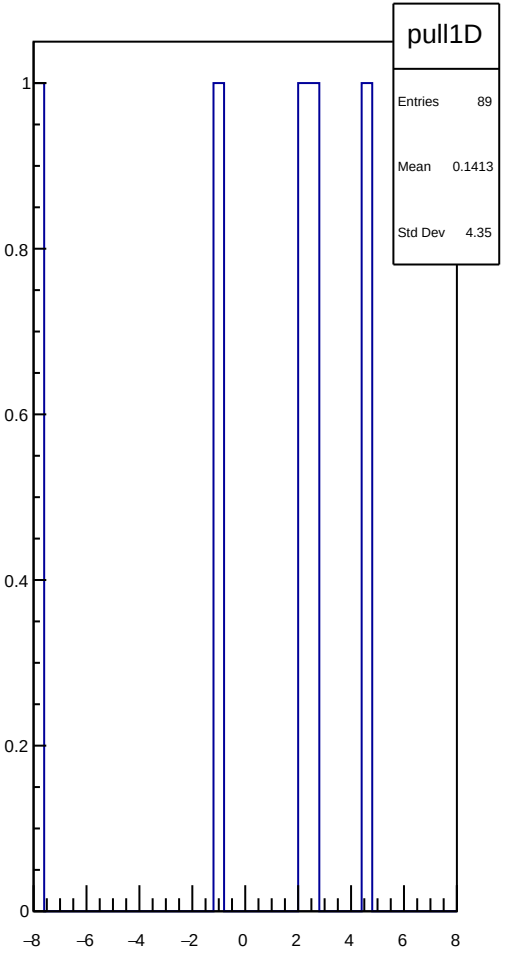

yield_bpm0i01X_rms vs run
χ² / ndf 4.507e+04 / 88
p0 0.00912 ± 6.903e–06
0.018
0.016
0.014
0.012
0.01
0.008

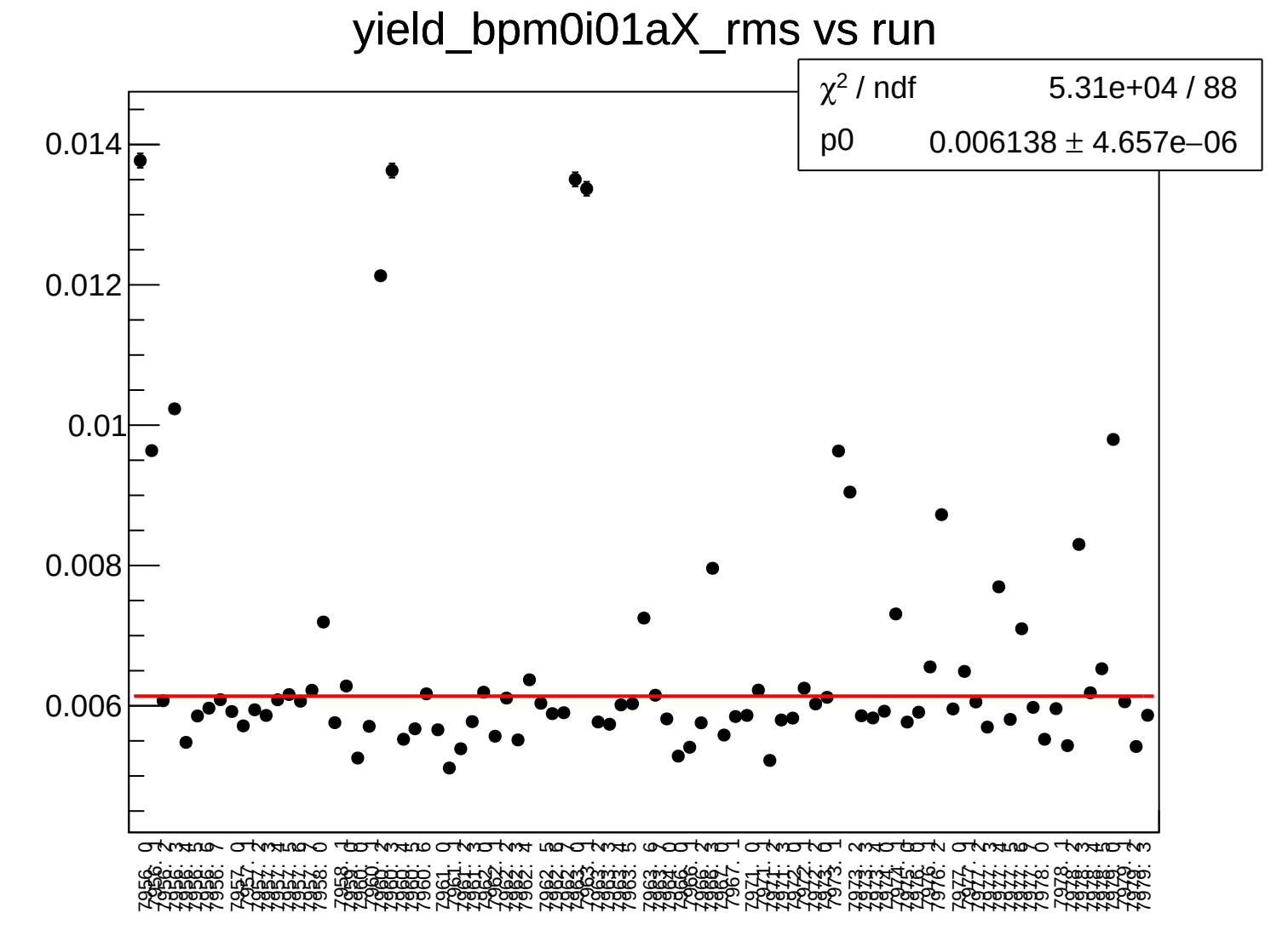

yield_bpm0i01Y_mean vs run
χ² / ndf 4.024e+05 / 88
p0 −1.372 ± 5.642e−06
−1.35
−1.355
−1.36
−1.365
−1.37
−1.375
−1.38
pull
Entries 89
Mean −291.4
Std Dev 0
150
100
50
0
−50
−100

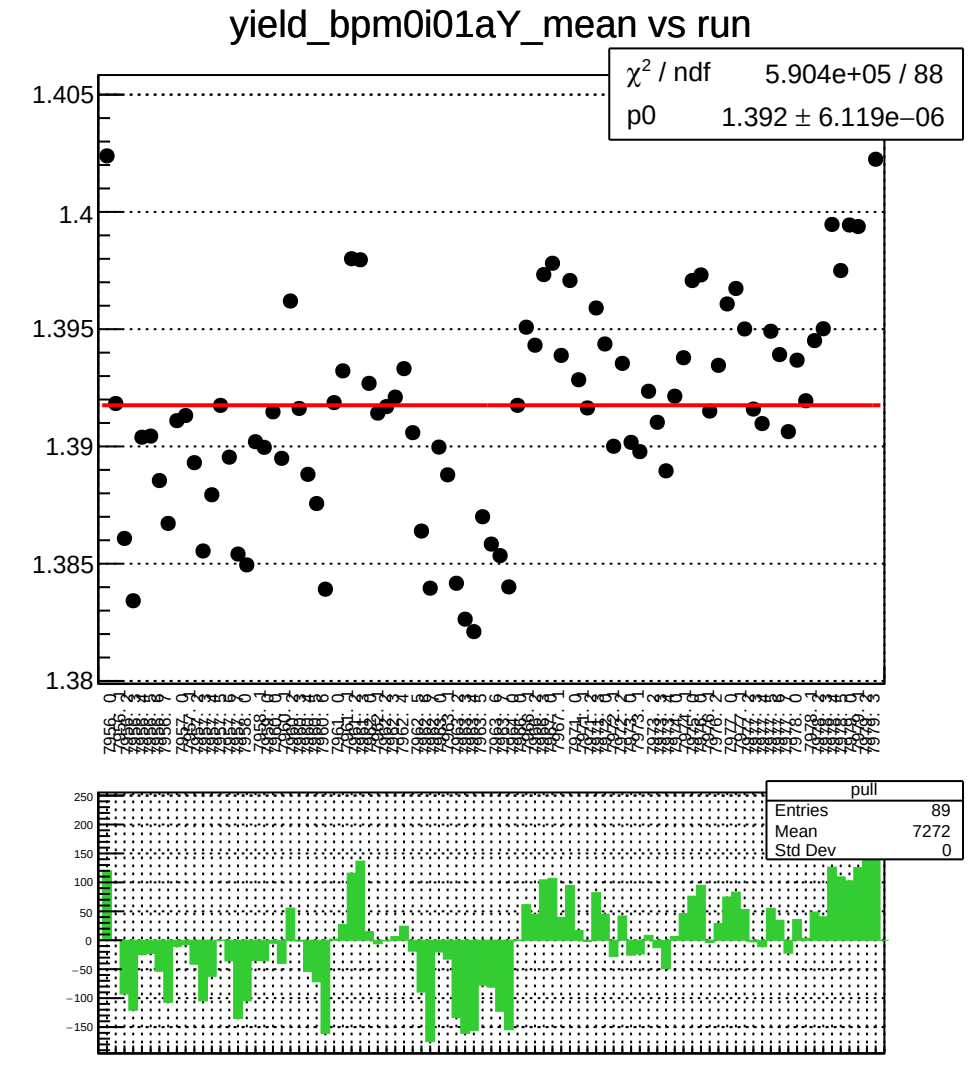

pull1D
Entries 89
Mean −1.25
Std Dev 3.42
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

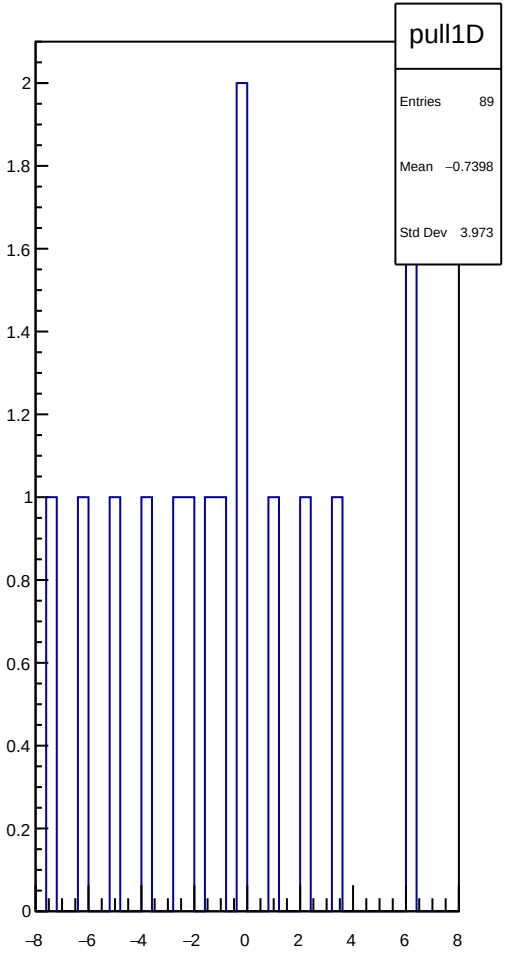

yield_bpm0i01Y_rms vs run
χ² / ndf 7.577e+04 / 88
p0 0.005225 ± 3.99e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

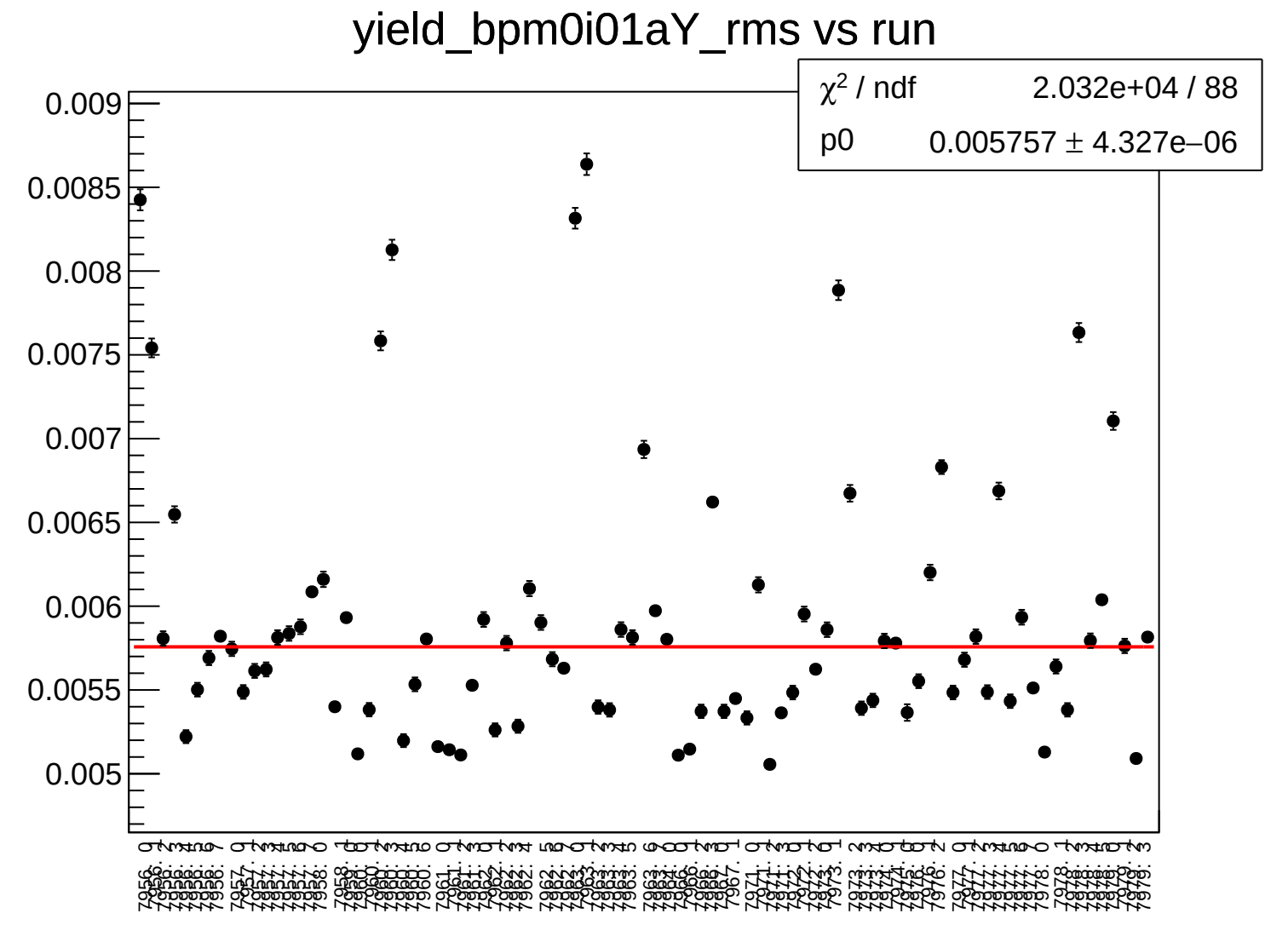

yield_bpm0i01aX_mean vs run
χ² / ndf 1.114e+06 / 88
p0 −1.844 ± 6.586e−06
−1.82
−1.825
−1.83
−1.835
−1.84
−1.845
−1.85
−1.855
−1.86
pull
Entries 89
Mean −1086
Std Dev 0
300
200
100
0
−100
−200
−300

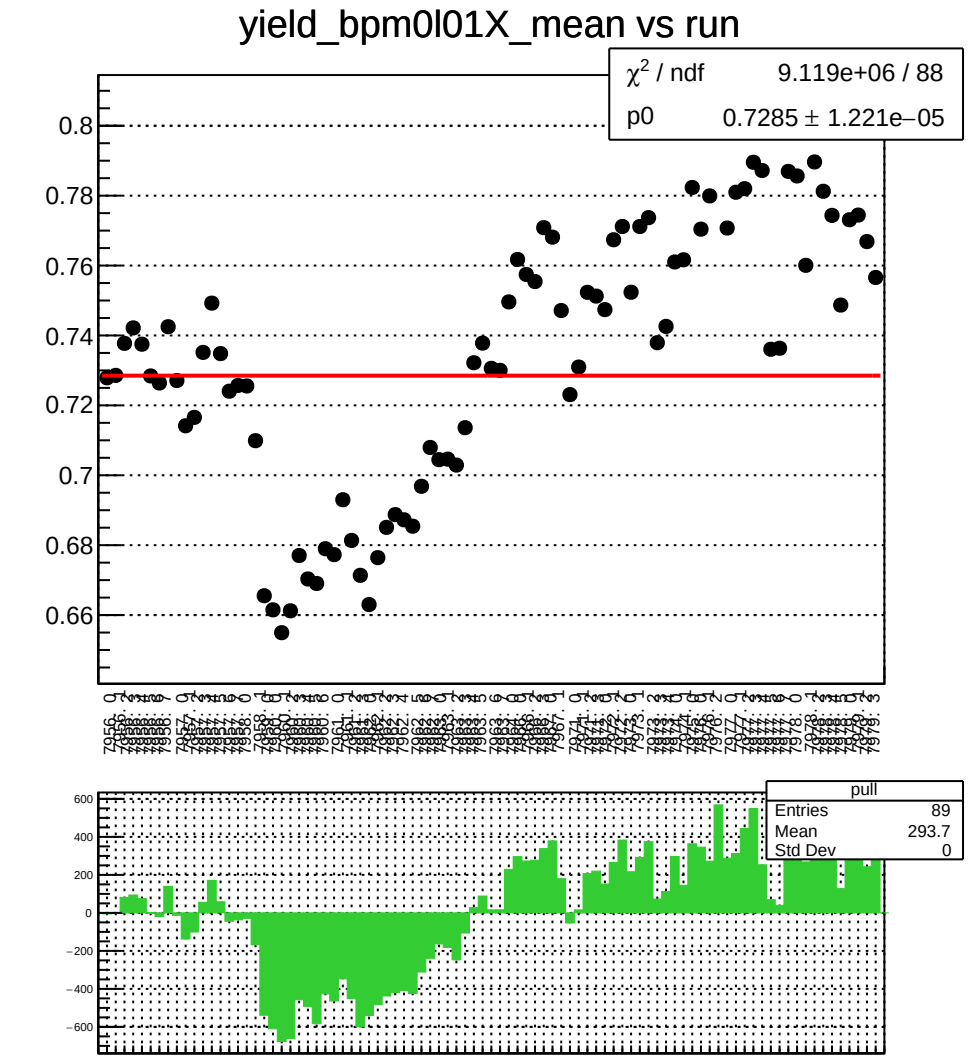

pull1D
Entries 89
Mean 0.1413
Std Dev 4.35
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

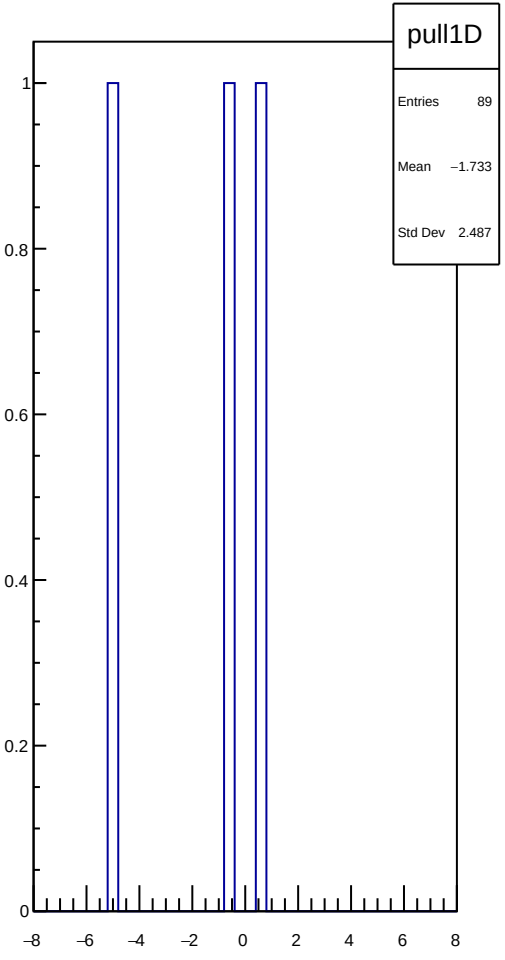

yield_bpm0i01aX_rms vs run
χ² / ndf 5.31e+04 / 88
p0 0.006138 ± 4.657e−06
0.014
0.012
0.01
0.008
0.006

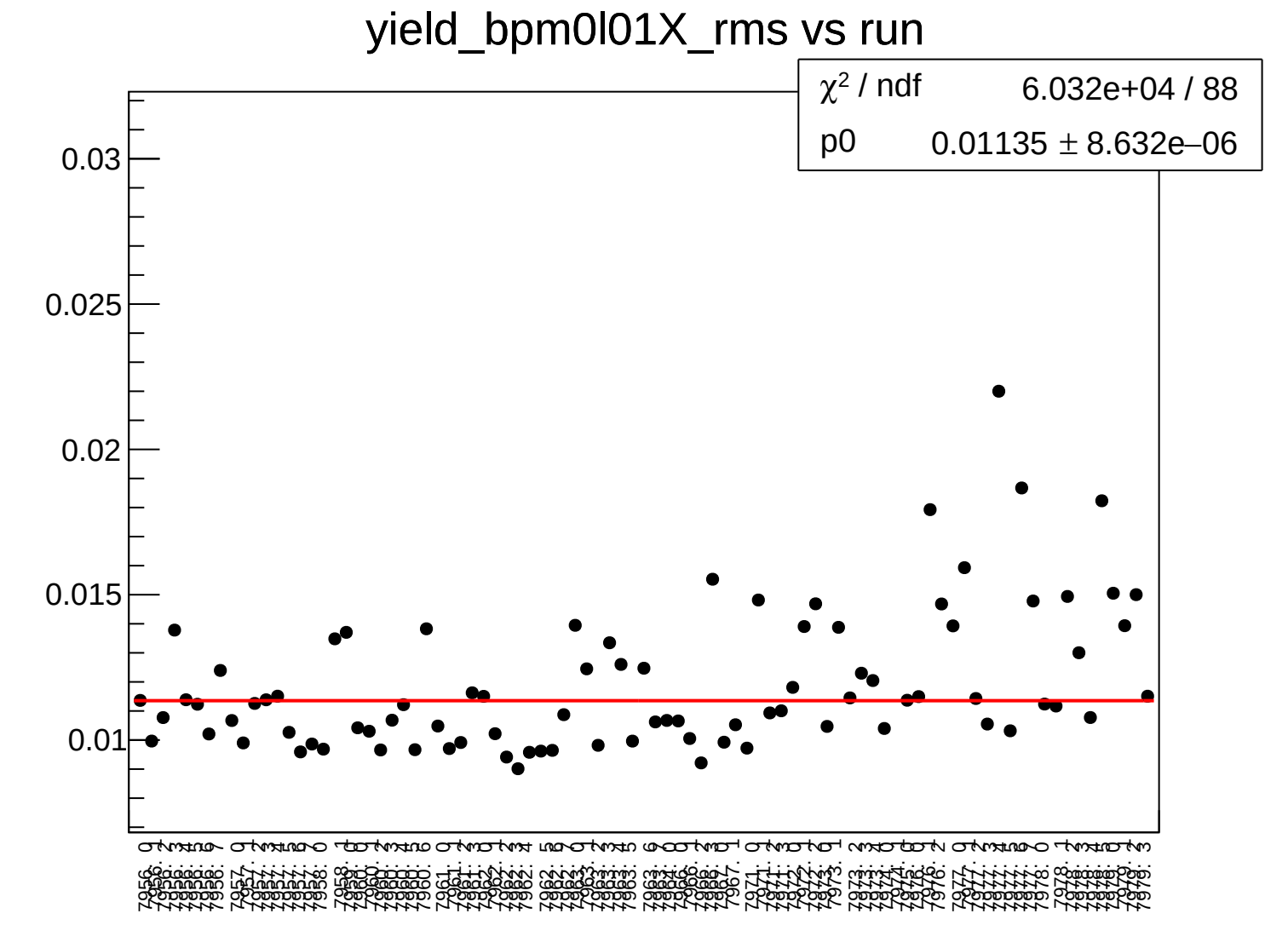

yield_bpm0i01aY_mean vs run
χ² / ndf 5.904e+05 / 88
p0 1.392 ± 6.119e−06
1.405
1.4
1.395
1.39
1.385
1.38
pull
Entries 89
Mean 7272
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

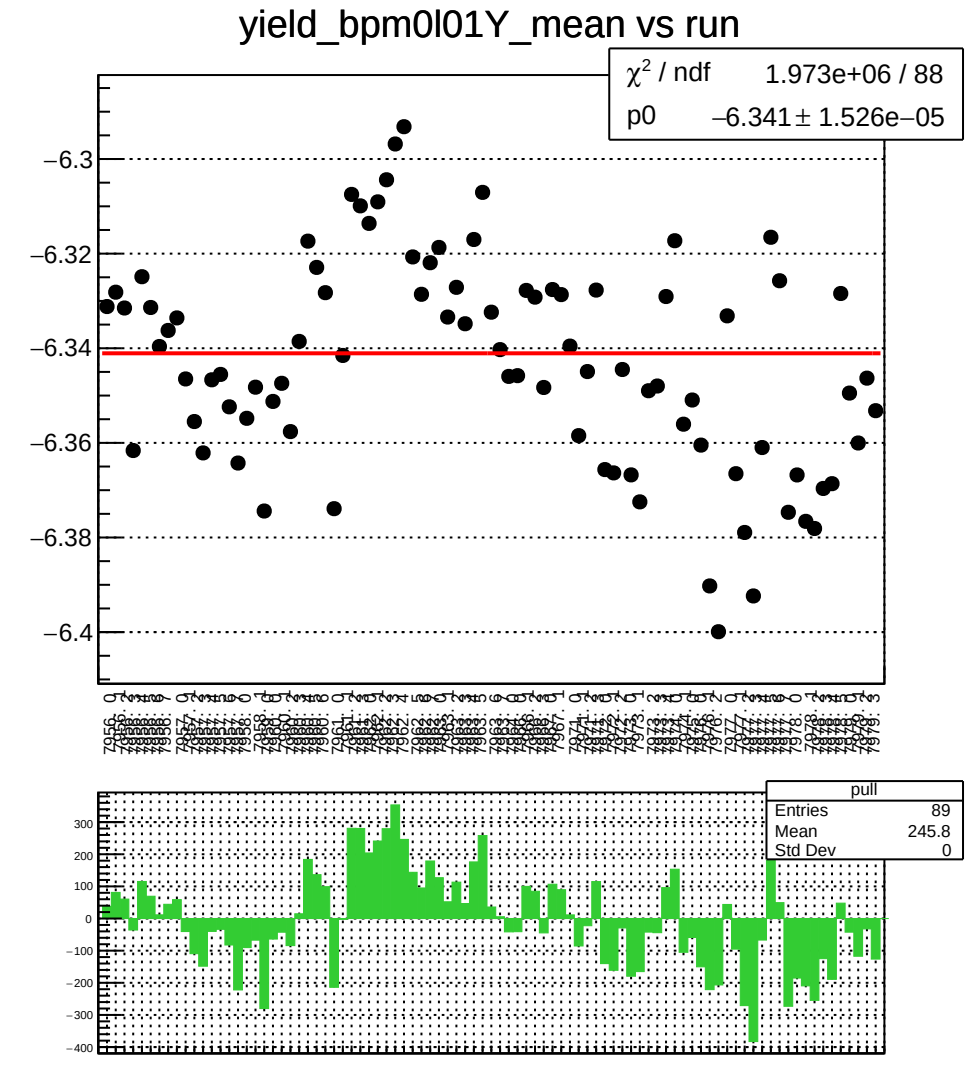

pull1D
Entries 89
Mean −0.7398
Std Dev 3.973
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

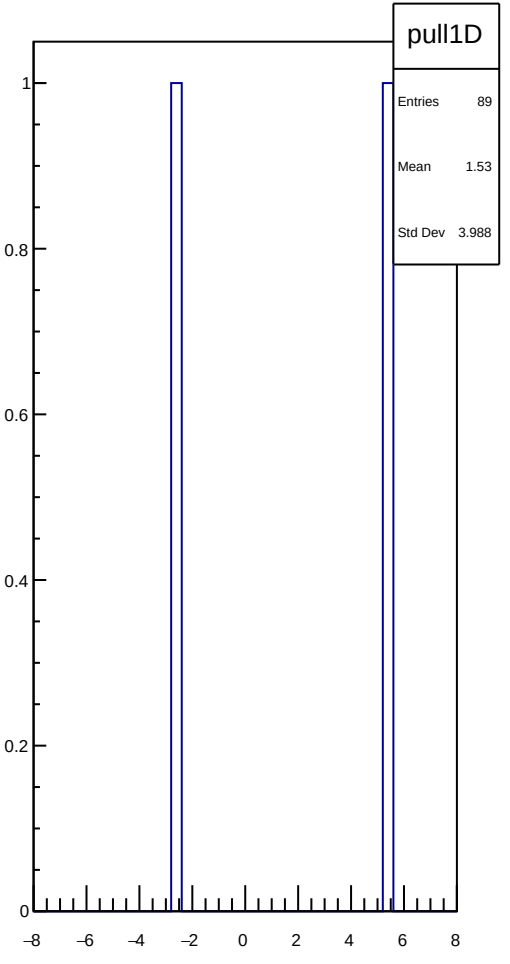

yield_bpm0i01aY_rms vs run
χ² / ndf 2.032e+04 / 88
p0 0.005757 ± 4.327e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

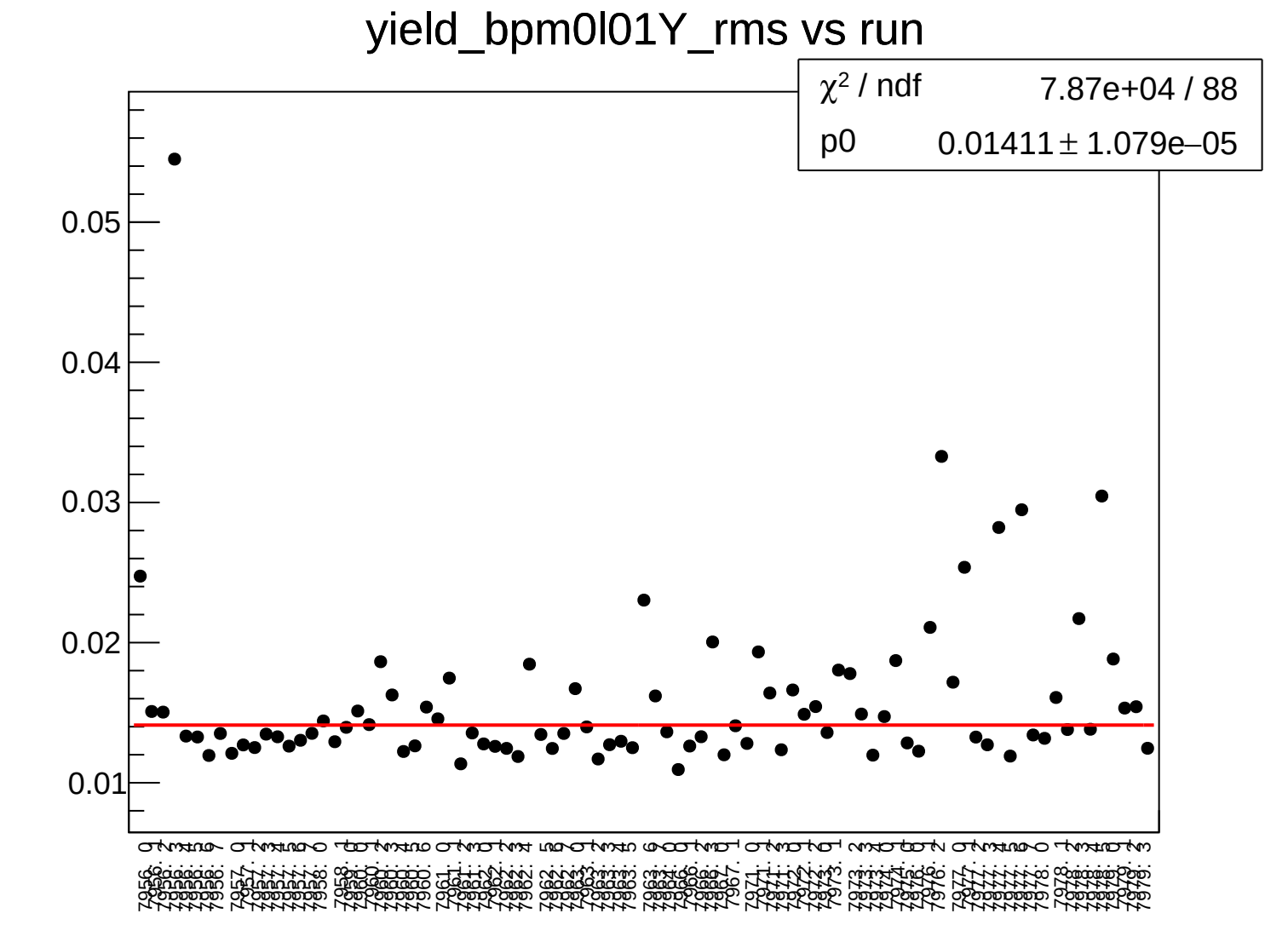

yield_bpm0l01X_mean vs run
χ² / ndf 9.119e+06 / 88
p0 0.7285 ± 1.221e−05
0.8
0.78
0.76
0.74
0.72
0.7
0.68
0.66
pull
Entries 89
Mean 293.7
Std Dev 0
600
400
200
0
−200
−400
−600

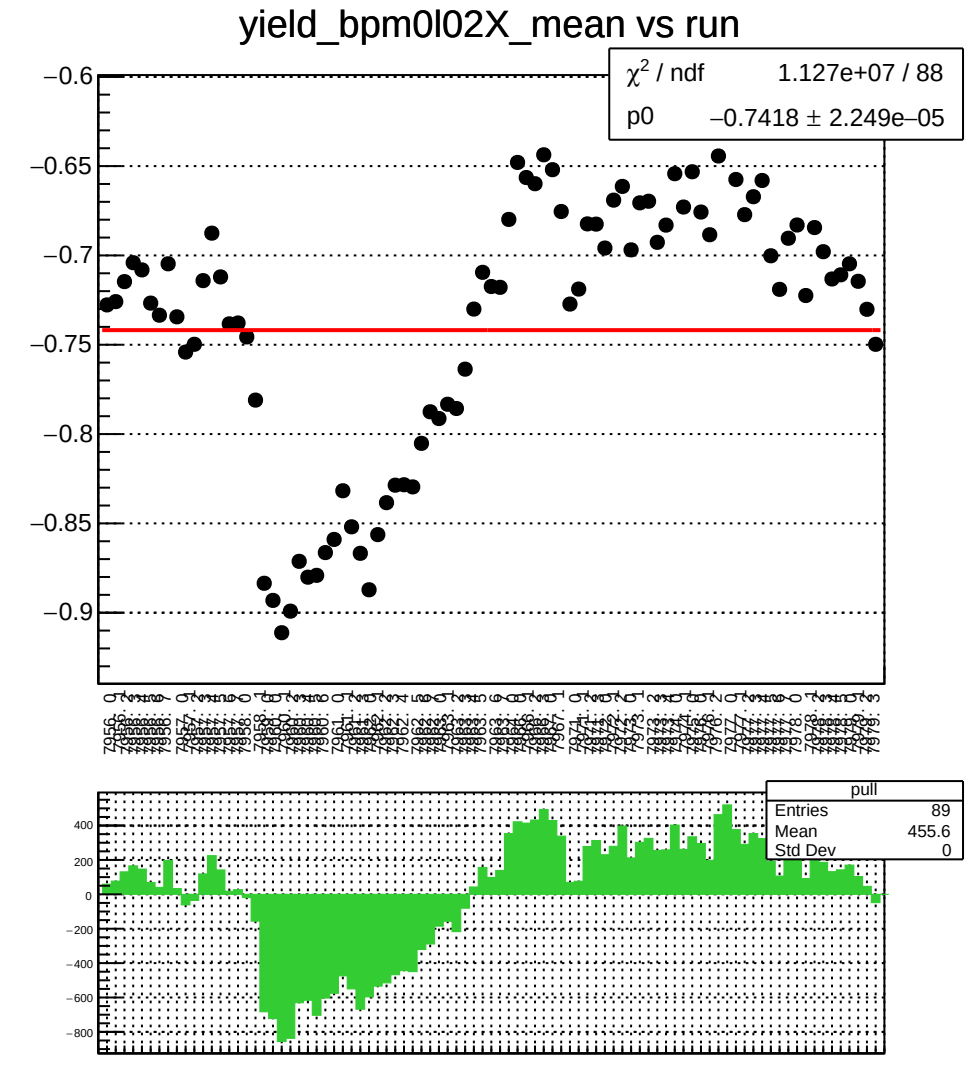

pull1D
Entries 89
Mean −1.733
Std Dev 2.487
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

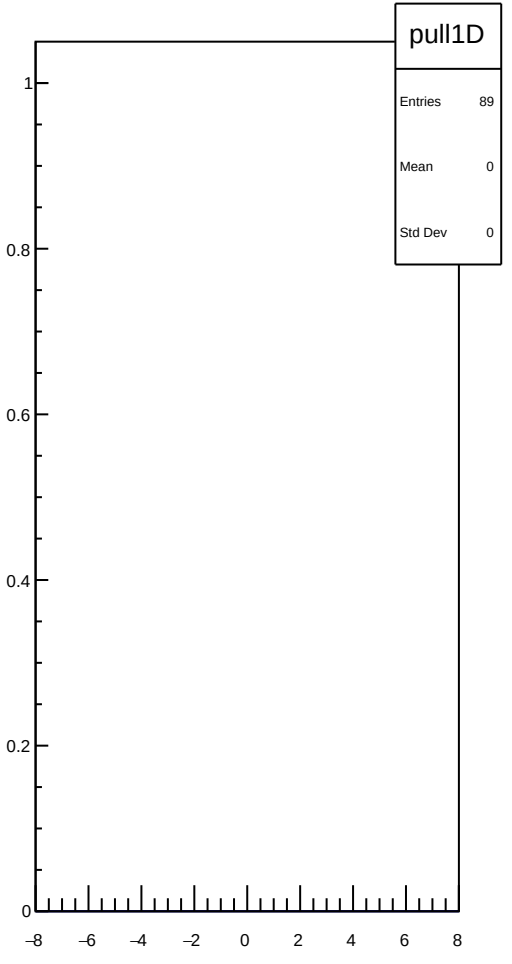

yield_bpm0l01X_rms vs run
χ² / ndf 6.032e+04 / 88
p0 0.01135 ± 8.632e–06
0.03
0.025
0.02
0.015
0.01

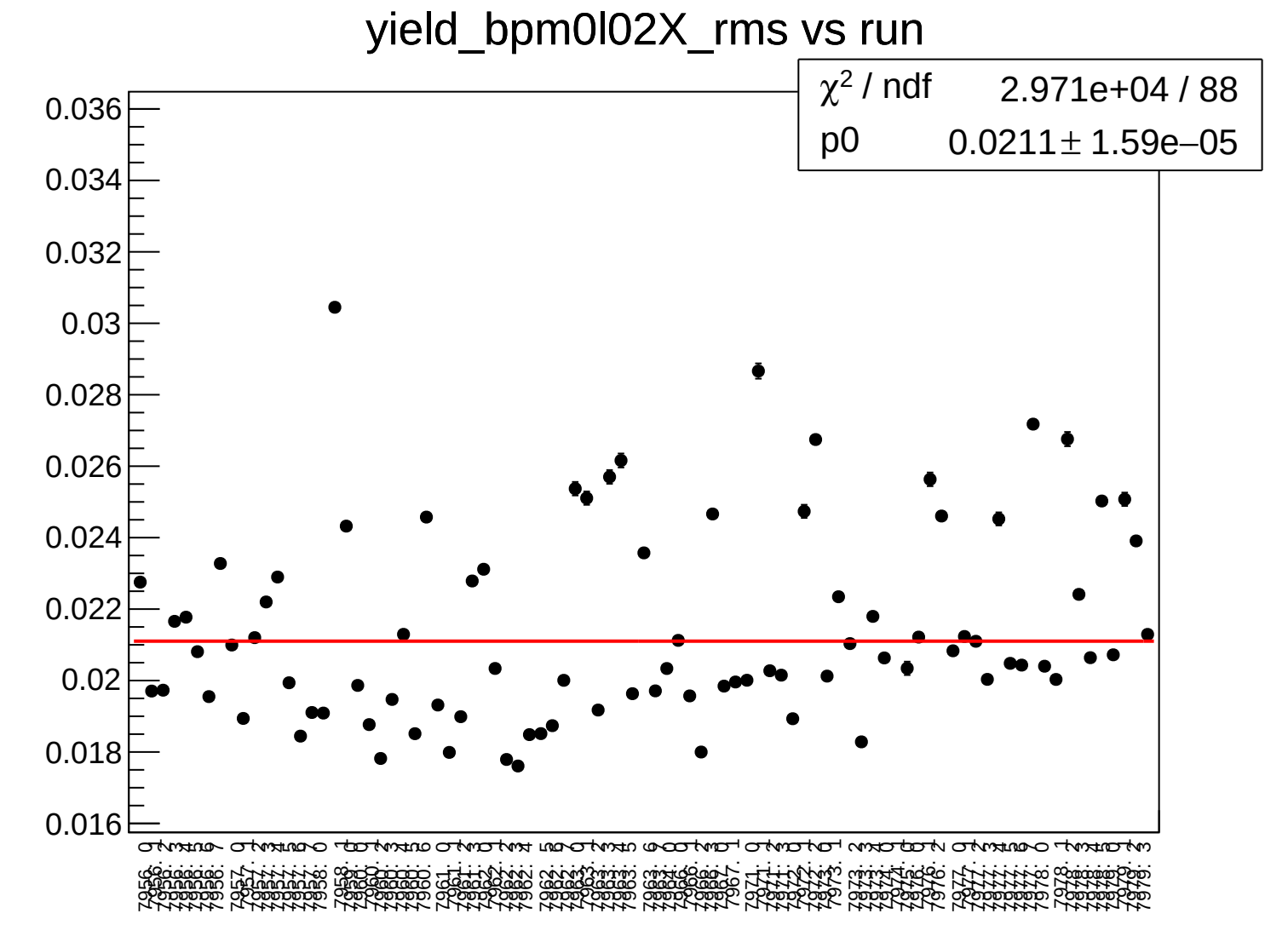

yield_bpm0l01Y_mean vs run
χ² / ndf 1.973e+06 / 88
p0 −6.341 ± 1.526e−05
−6.3
−6.32
−6.34
−6.36
−6.38
−6.4
pull
Entries 89
Mean 245.8
Std Dev 0
300
200
100
0
−100
−200
−300
−400

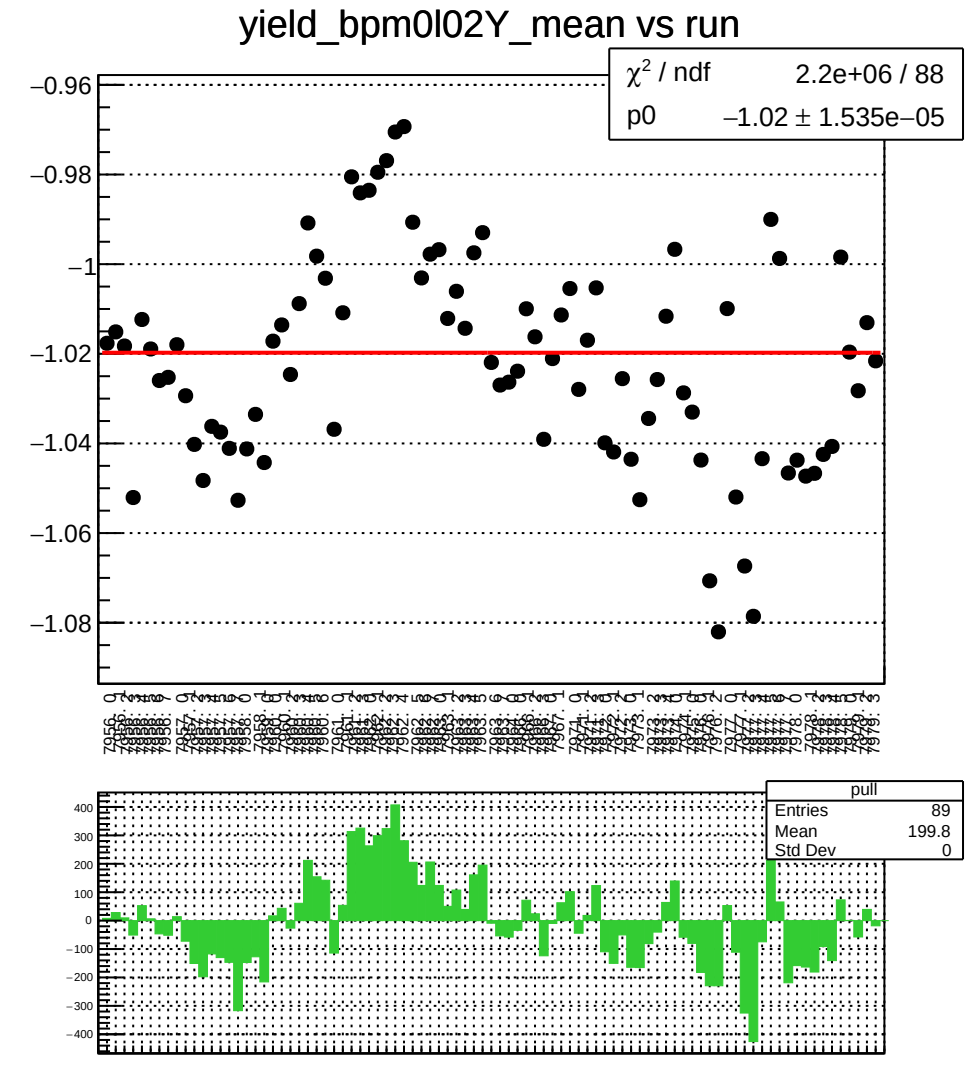

pull1D
Entries 89
Mean 1.53
Std Dev 3.988
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

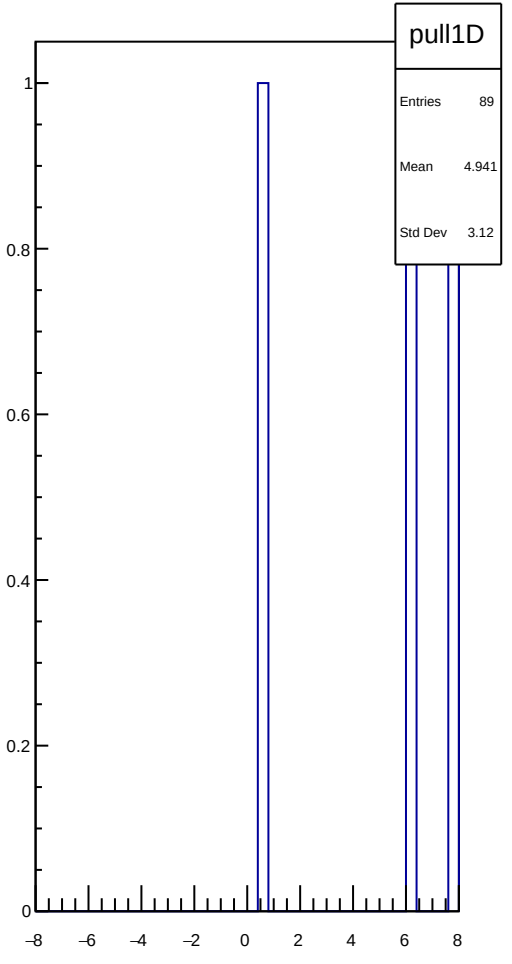

yield_bpm0l01Y_rms vs run
χ² / ndf 7.87e+04 / 88
p0 0.01411 ± 1.079e–05
0.05
0.04
0.03
0.02
0.01

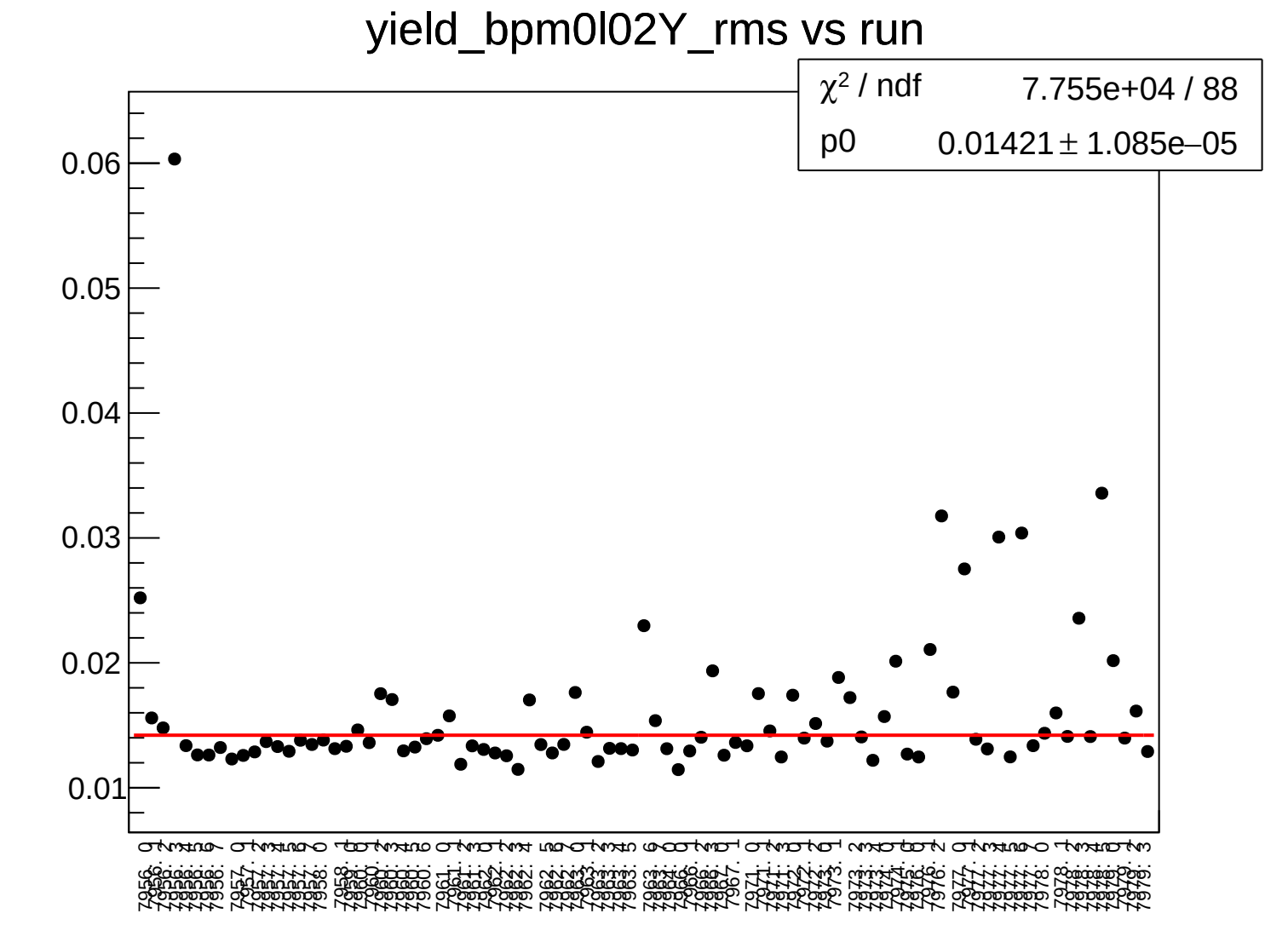

yield_bpm0l02X_mean vs run
χ² / ndf 1.127e+07 / 88
p0 −0.7418 ± 2.249e−05
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 89
Mean 455.6
Std Dev 0
400
200
0
−200
−400
−600
−800

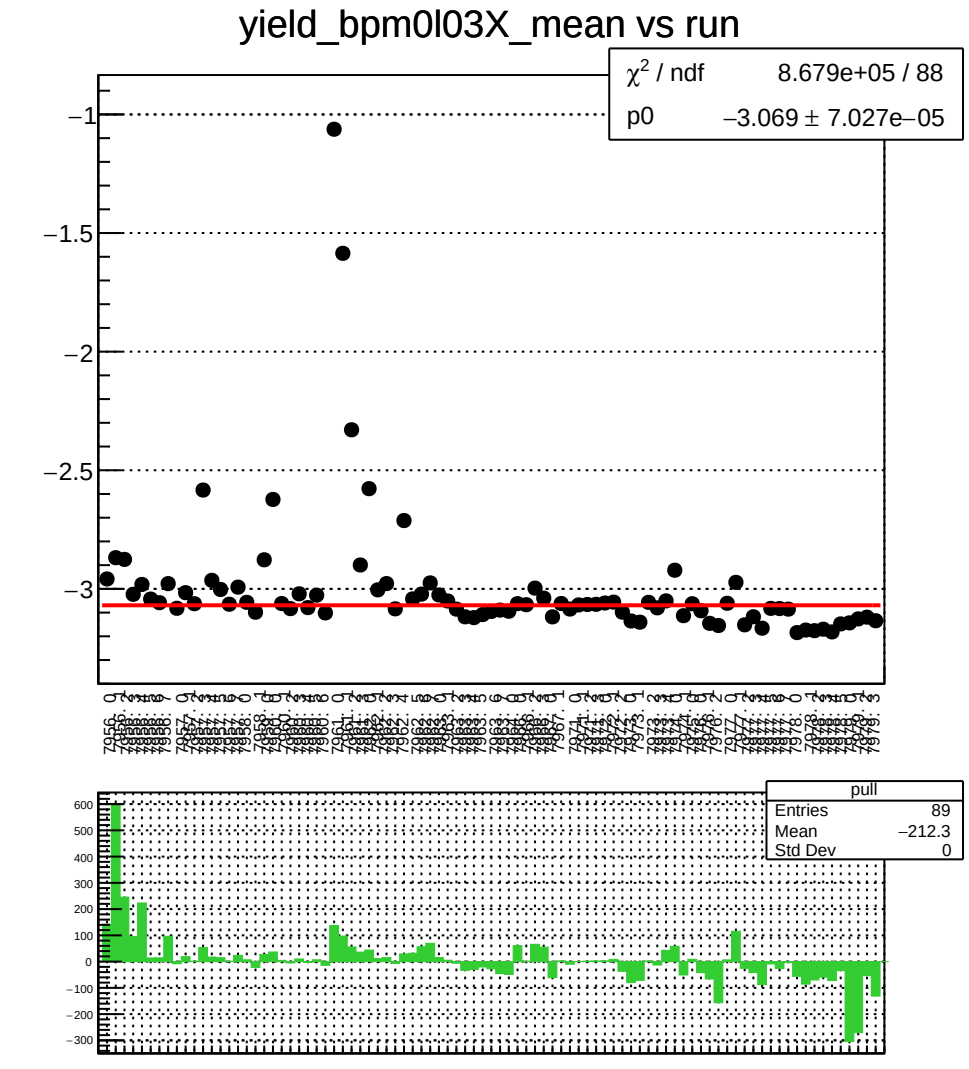

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

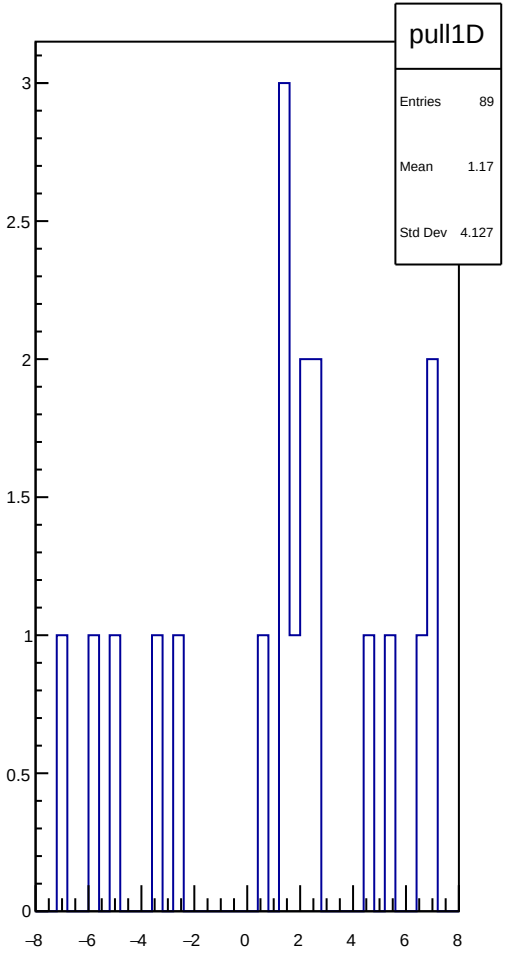

yield_bpm0l02X_rms vs run
$\chi^2$ / ndf 2.971e+04 / 88
p0 0.0211 ± 1.59e−05
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

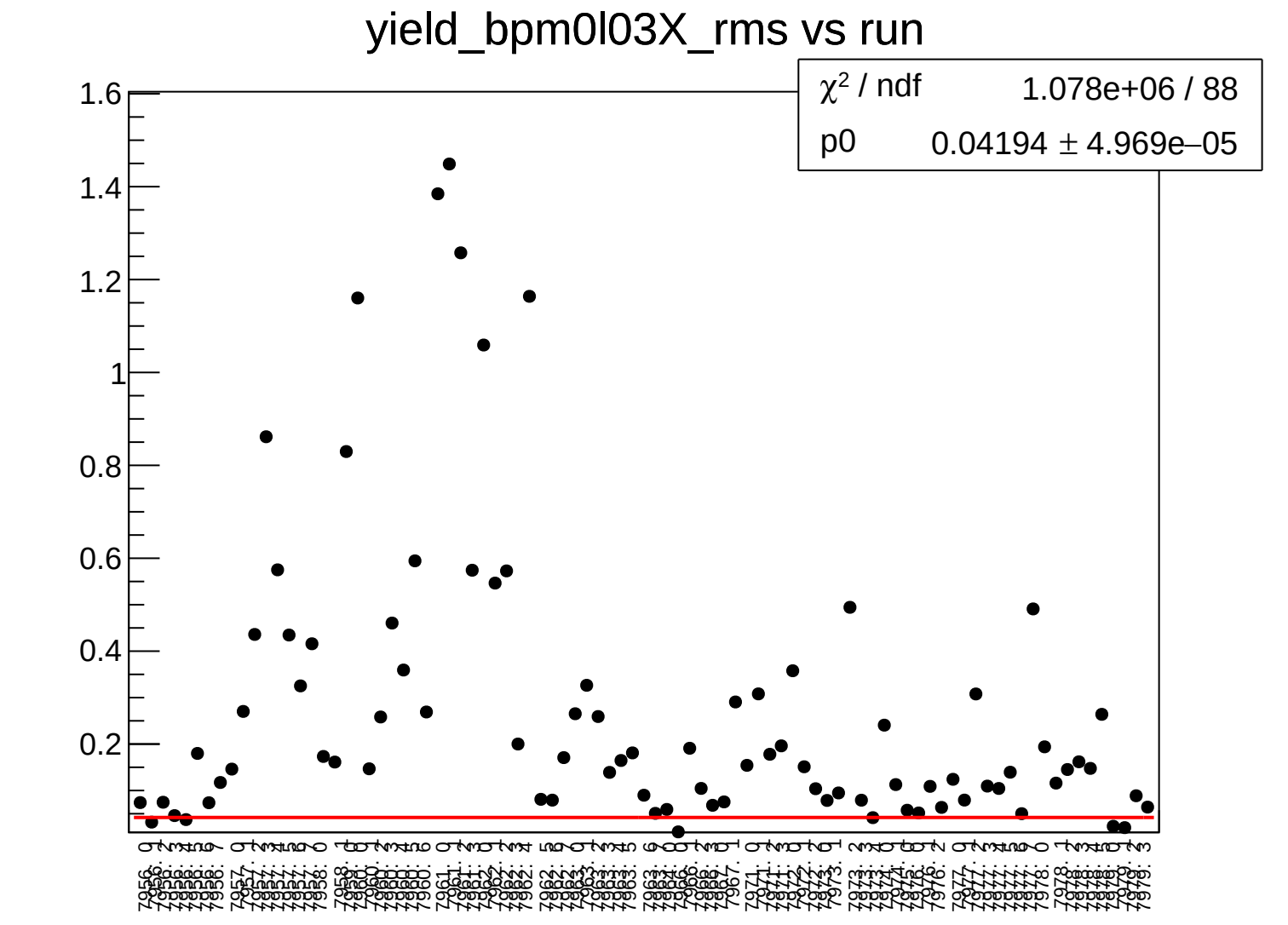

yield_bpm0l02Y_mean vs run
χ² / ndf 2.2e+06 / 88
p0 −1.02 ± 1.535e−05
−0.96
−0.98
−1
−1.02
−1.04
−1.06
−1.08
pull
Entries 89
Mean 199.8
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

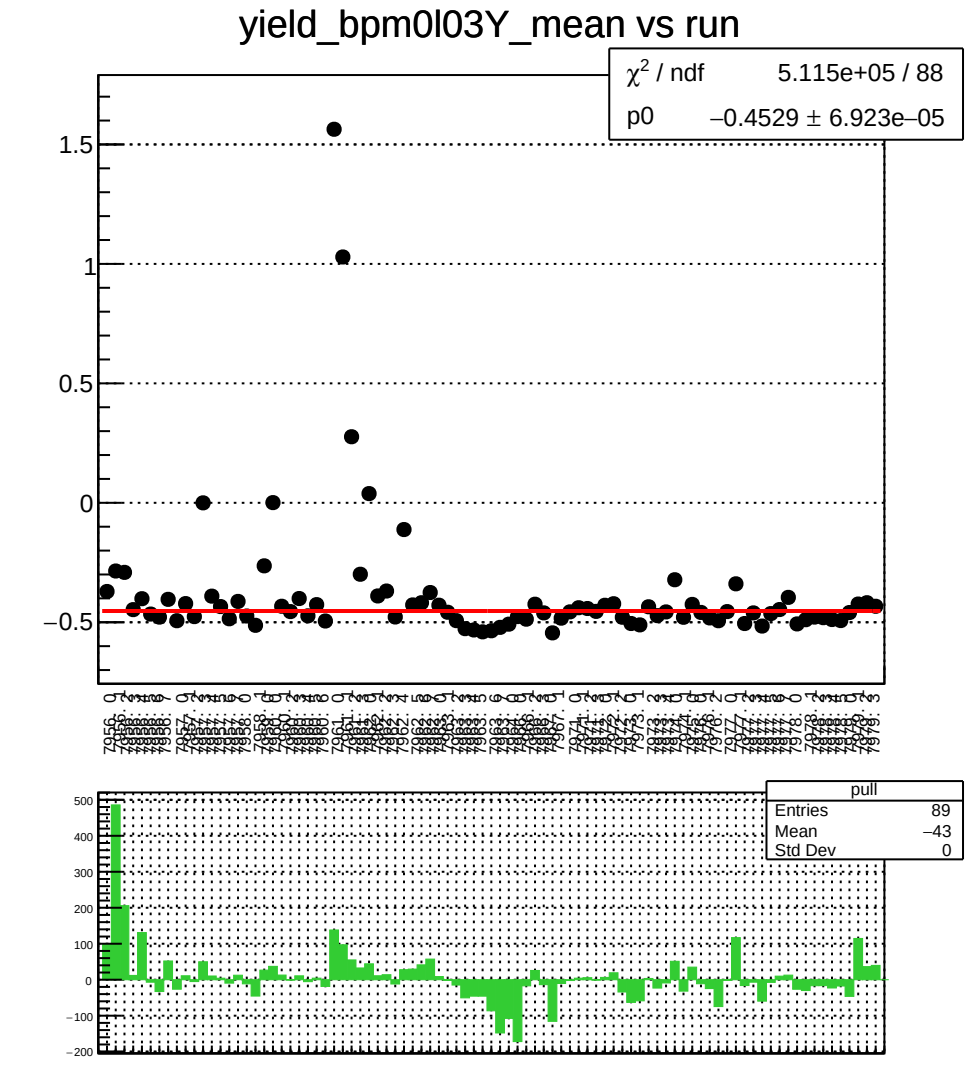

pull1D
Entries 89
Mean 4.941
Std Dev 3.12
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

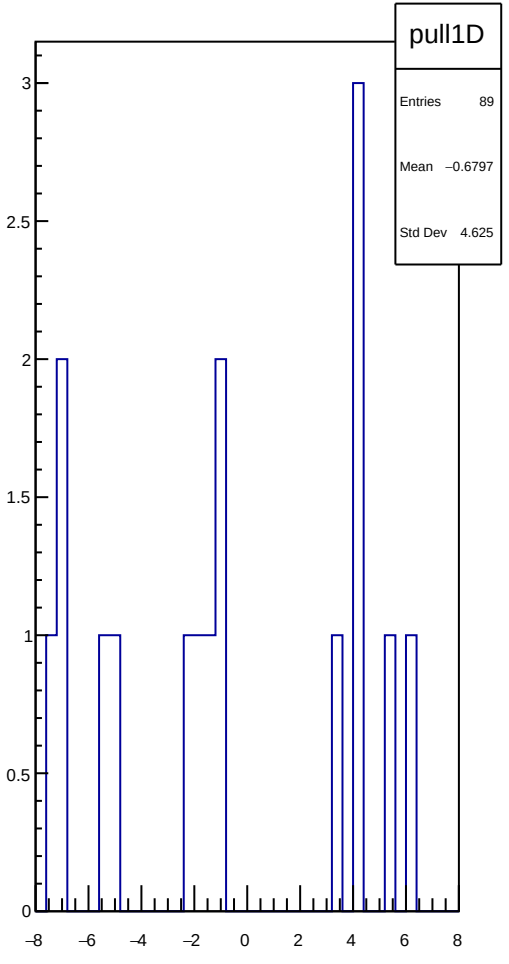

yield_bpm0l02Y_rms vs run
$\chi^2$ / ndf 7.755e+04 / 88
p0 0.01421 ± 1.085e−05
0.06
0.05
0.04
0.03
0.02
0.01

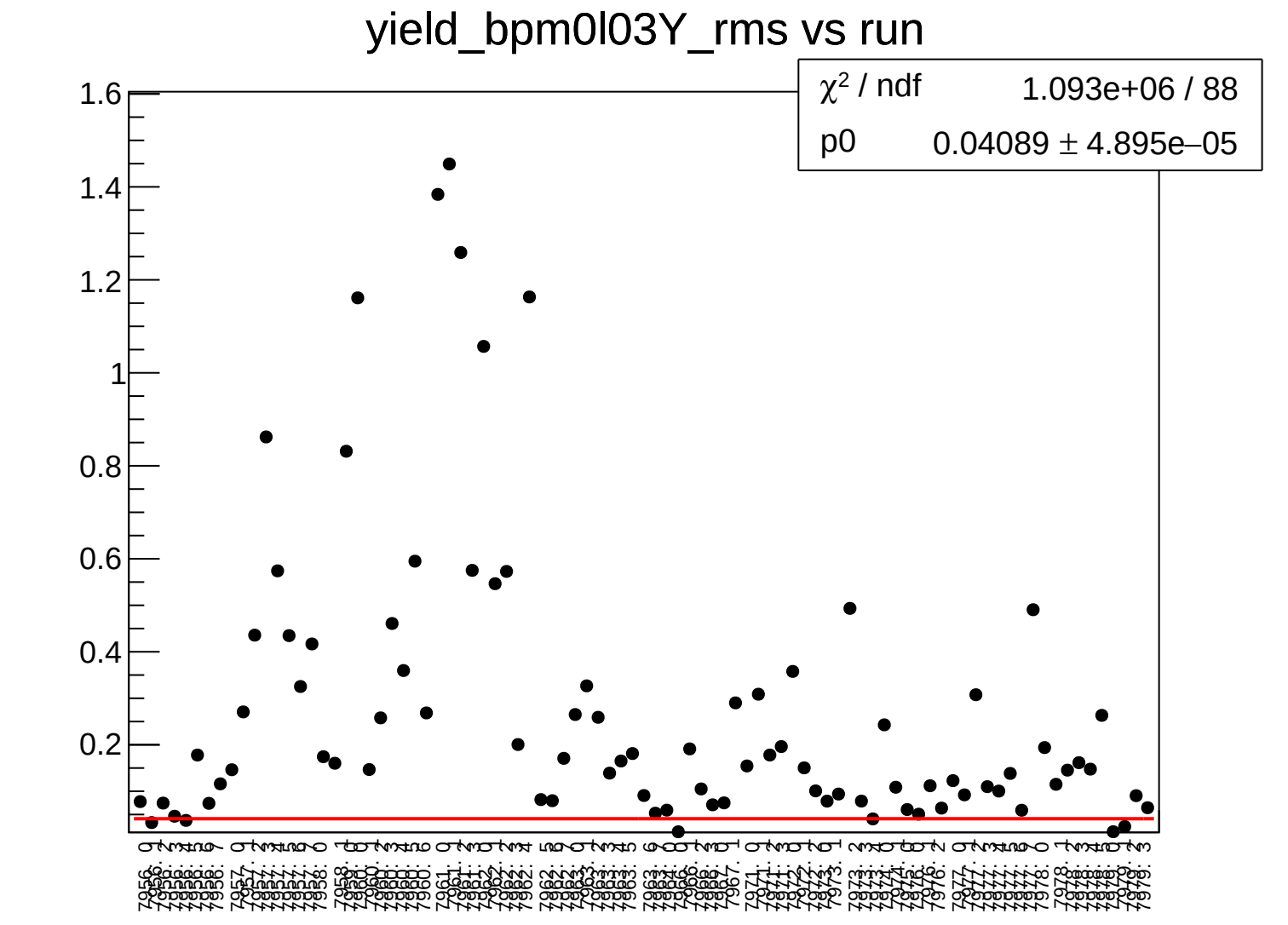

yield_bpm0l03X_mean vs run
χ² / ndf 8.679e+05 / 88
p0 −3.069 ± 7.027e−05
pull
Entries 89
Mean −212.3
Std Dev 0

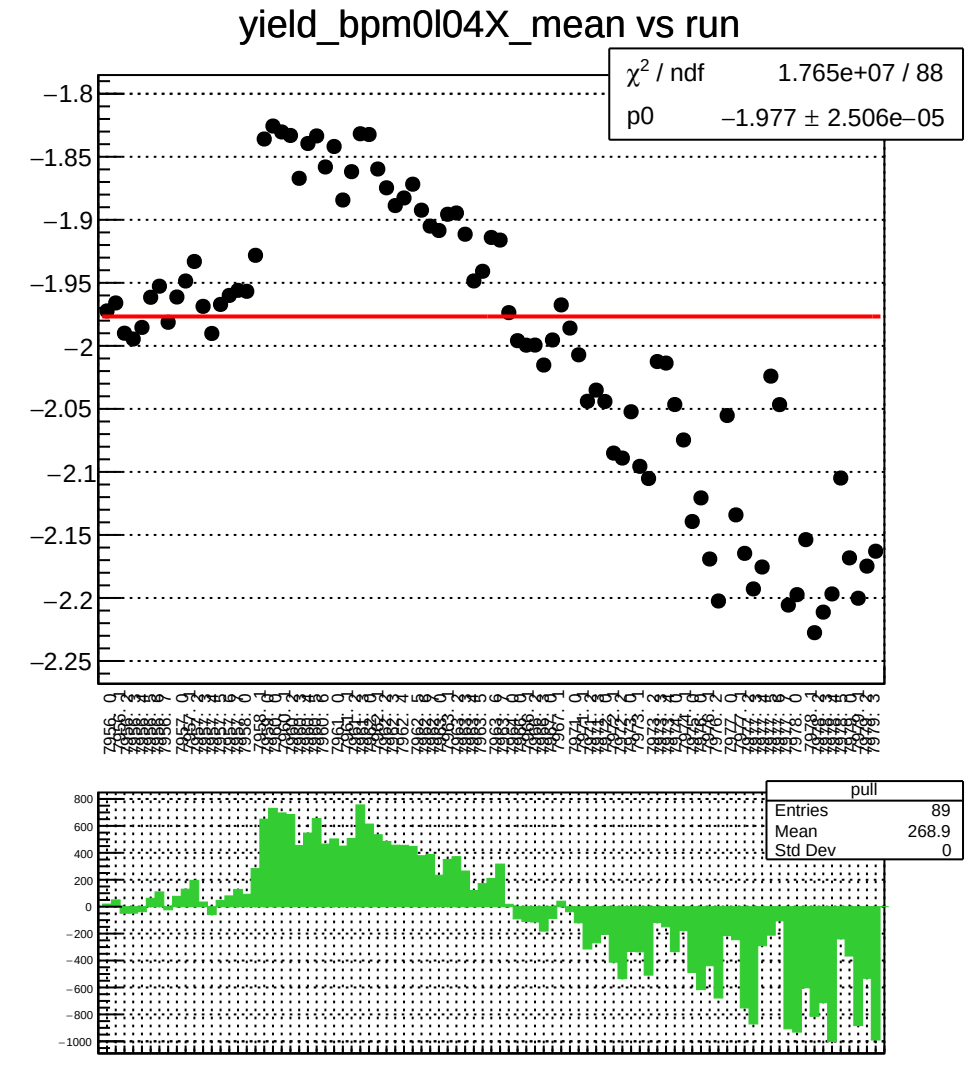

pull1D
Entries 89
Mean 1.17
Std Dev 4.127

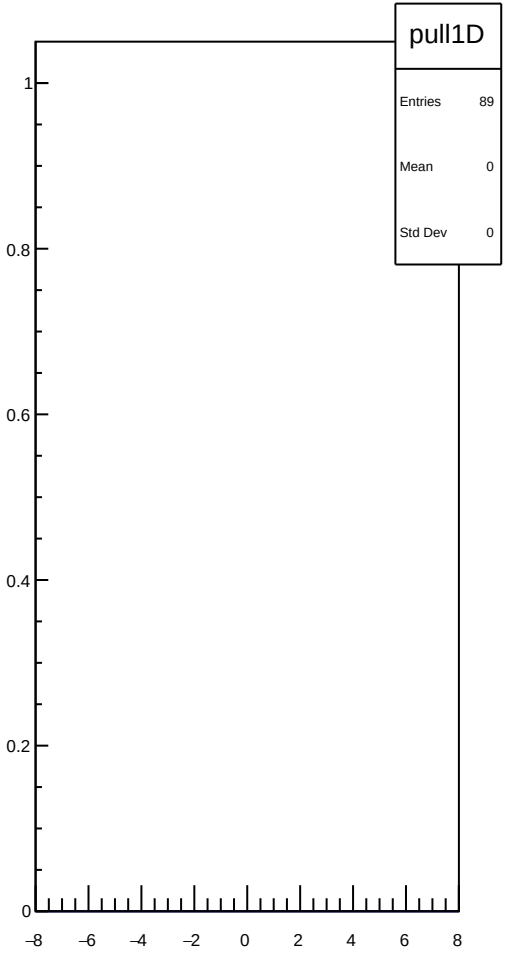

yield_bpm0l03X_rms vs run
χ² / ndf 1.078e+06 / 88
p0 0.04194 ± 4.969e−05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

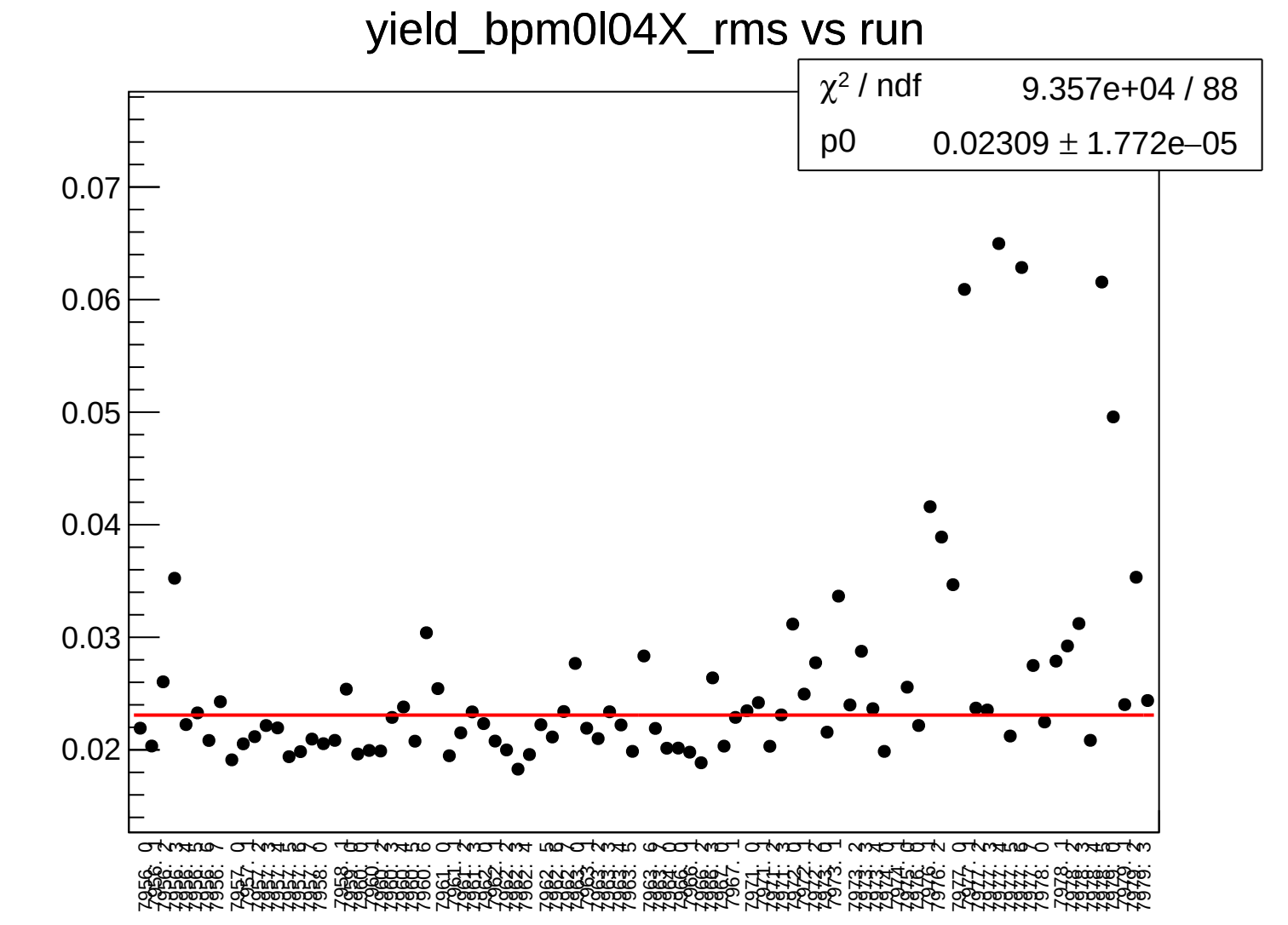

yield_bpm0l03Y_mean vs run
χ² / ndf 5.115e+05 / 88
p0 −0.4529 ± 6.923e−05
pull
Entries 89
Mean −43
Std Dev 0

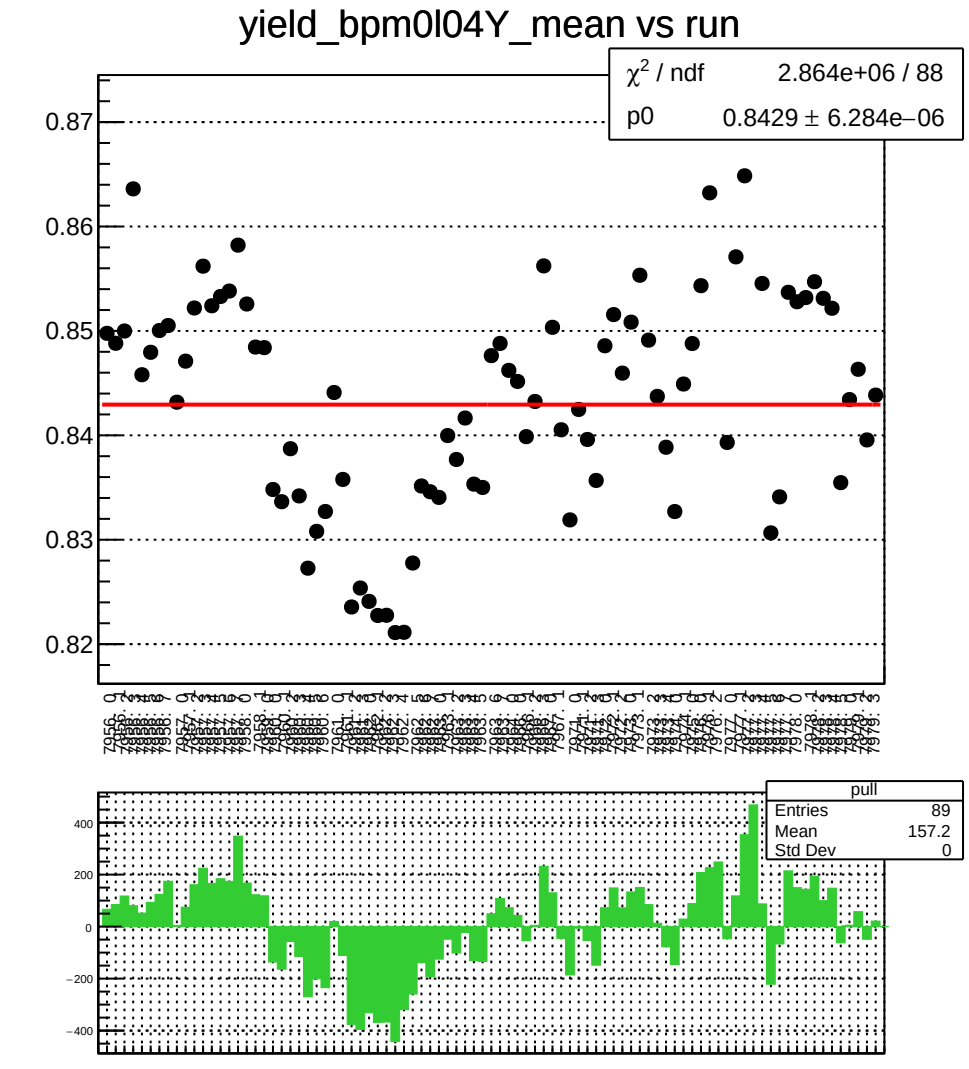

pull1D
Entries 89
Mean −0.6797
Std Dev 4.625

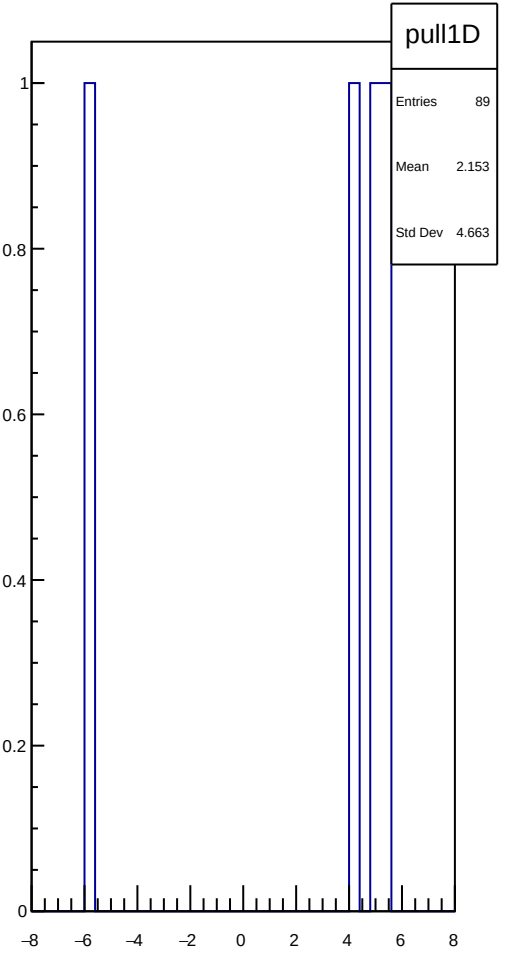

yield_bpm0l03Y_rms vs run
χ² / ndf 1.093e+06 / 88
p0 0.04089 ± 4.895e–05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

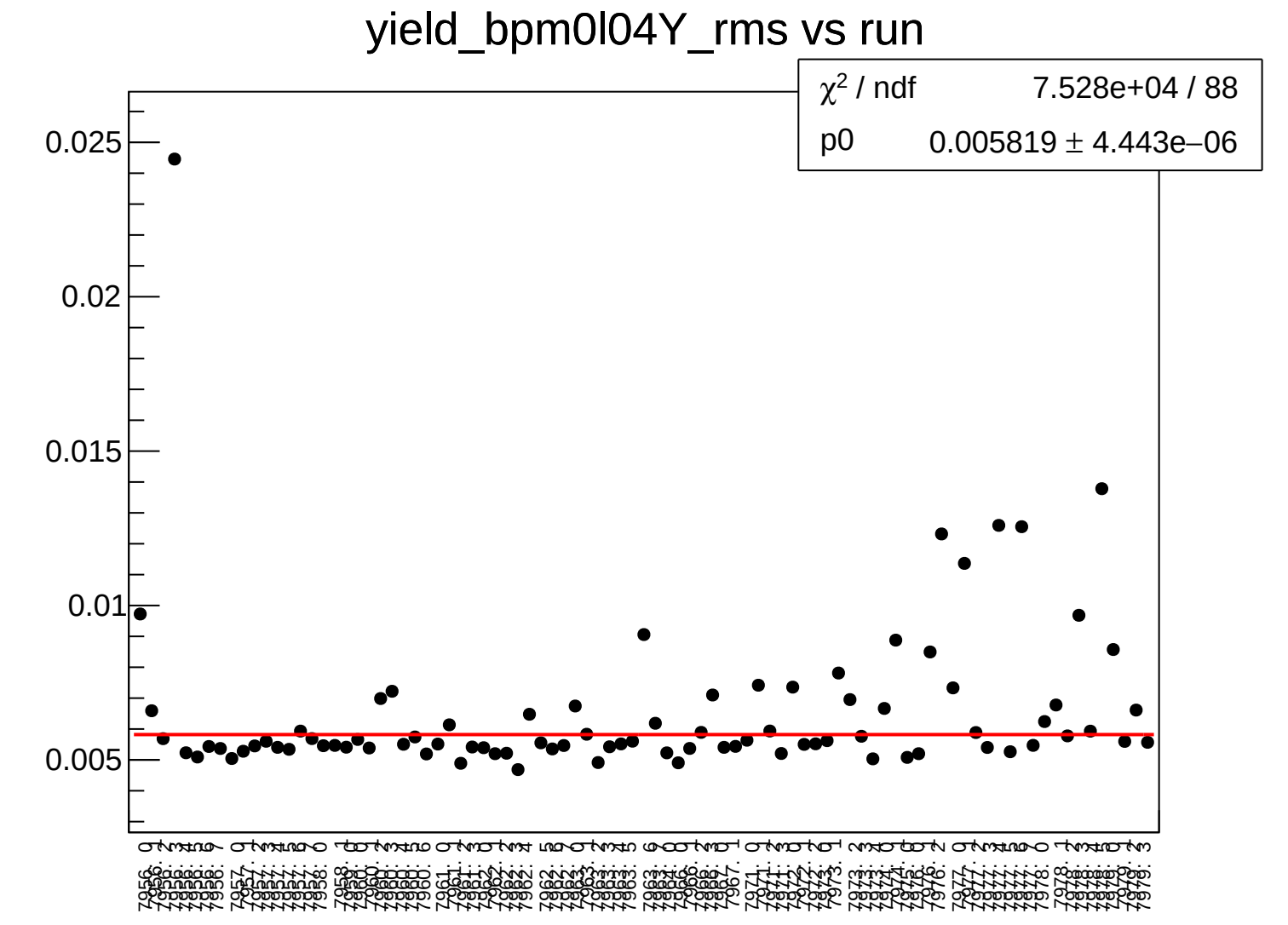

yield_bpm0l04X_mean vs run
χ² / ndf 1.765e+07 / 88
p0 −1.977 ± 2.506e−05
−1.8
−1.85
−1.9
−1.95
−2
−2.05
−2.1
−2.15
−2.2
−2.25
pull
Entries 89
Mean 268.9
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

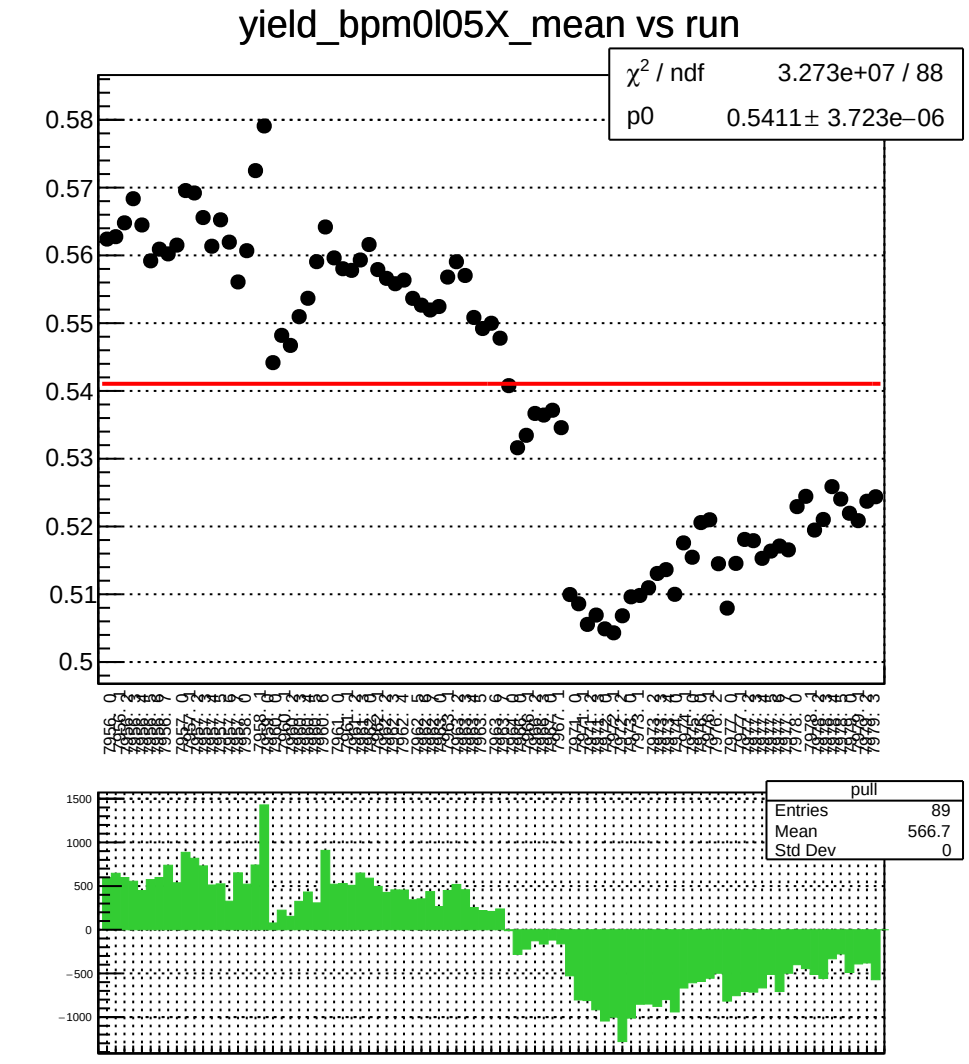

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

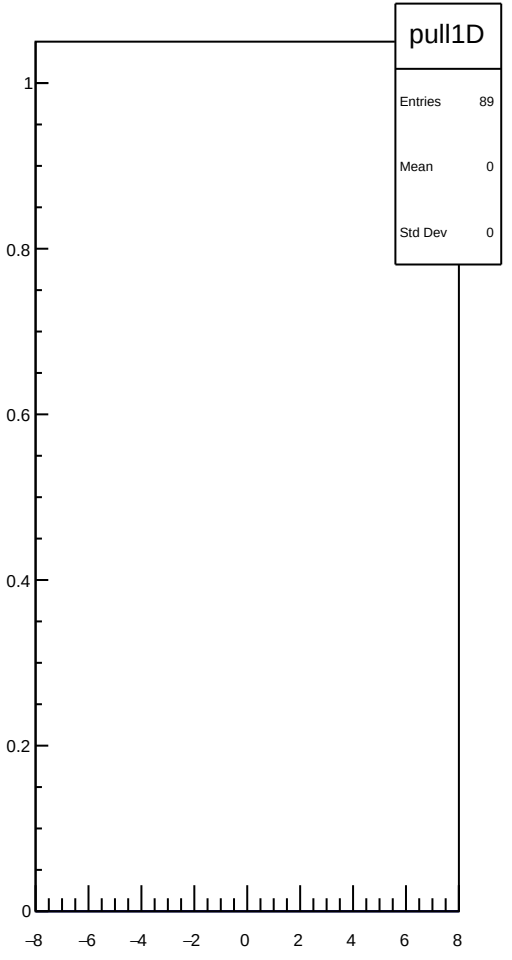

yield_bpm0l04X_rms vs run
$\chi^2$ / ndf 9.357e+04 / 88
p0 0.02309 ± 1.772e−05
0.07
0.06
0.05
0.04
0.03
0.02

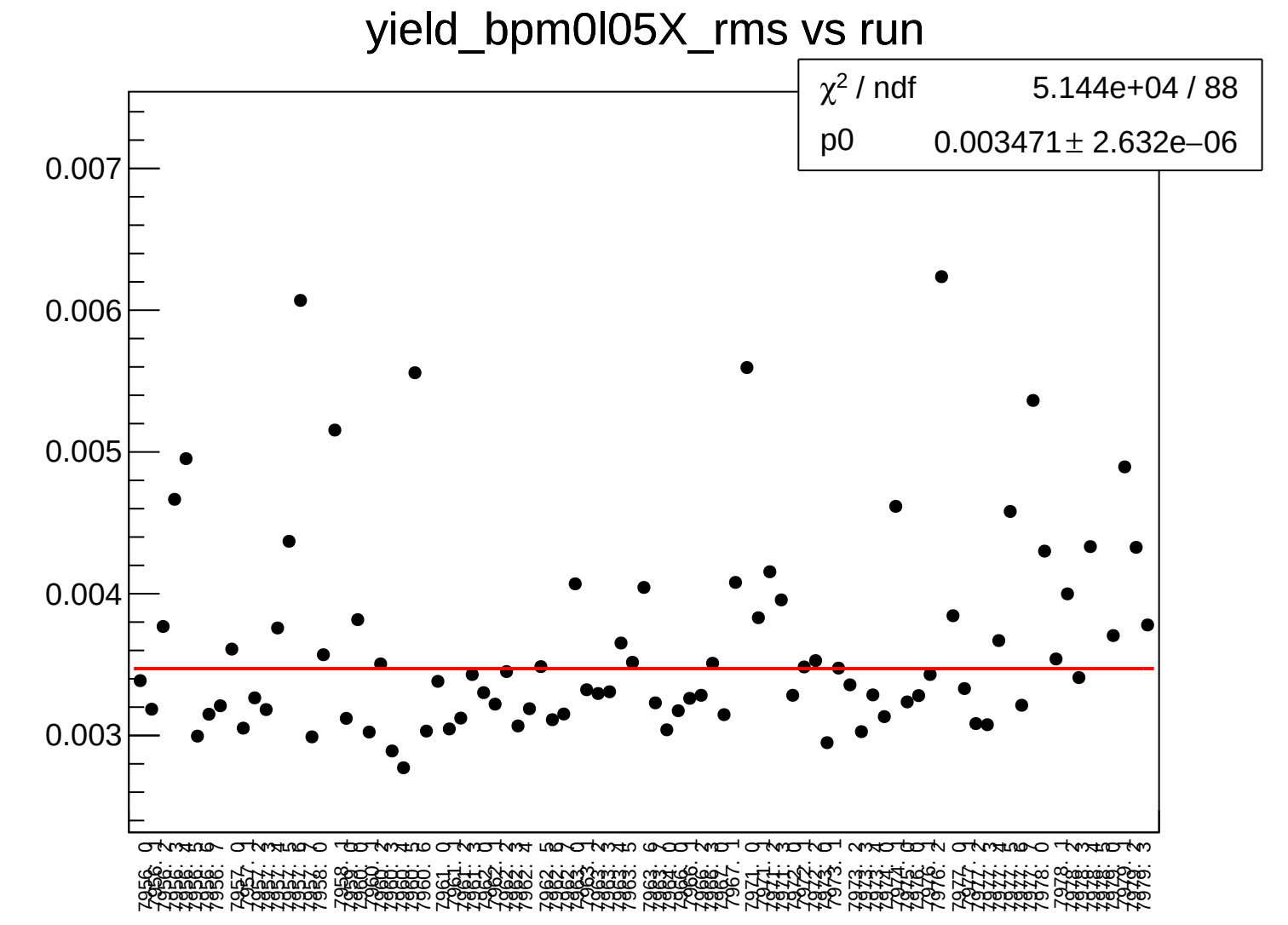

yield_bpm0l04Y_mean vs run
χ² / ndf 2.864e+06 / 88
p0 0.8429 ± 6.284e−06
0.87
0.86
0.85
0.84
0.83
0.82
pull
Entries 89
Mean 157.2
Std Dev 0
400
200
0
−200
−400

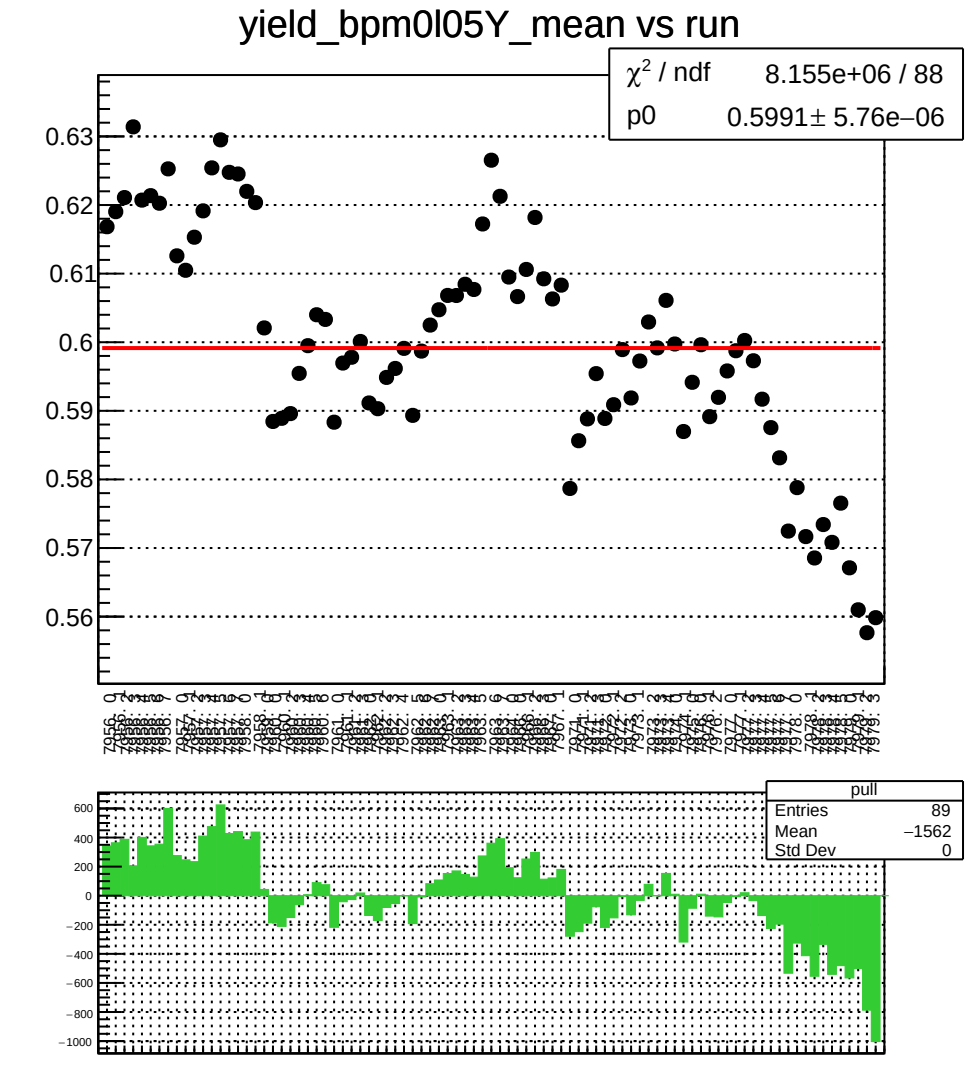

pull1D
Entries 89
Mean 2.153
Std Dev 4.663
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

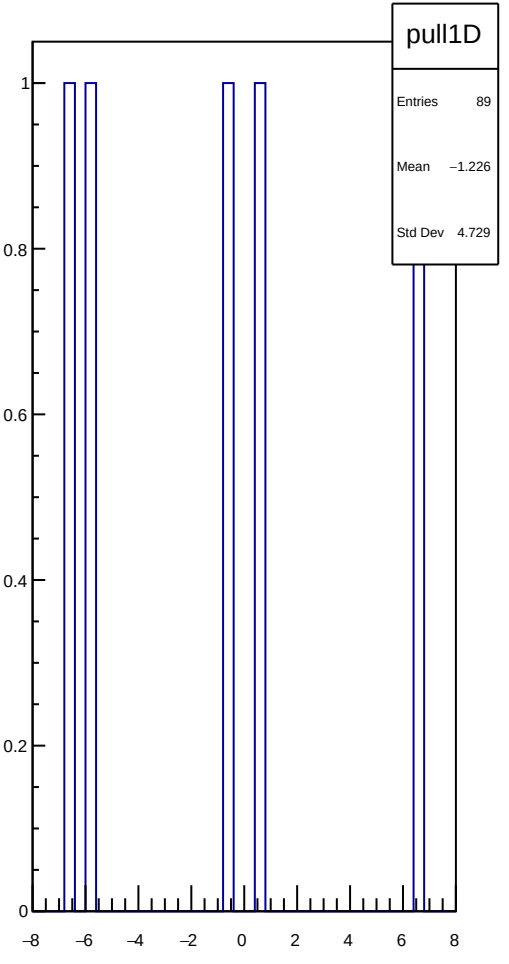

yield_bpm0l04Y_rms vs run
χ² / ndf 7.528e+04 / 88
p0 0.005819 ± 4.443e−06
0.025
0.02
0.015
0.01
0.005

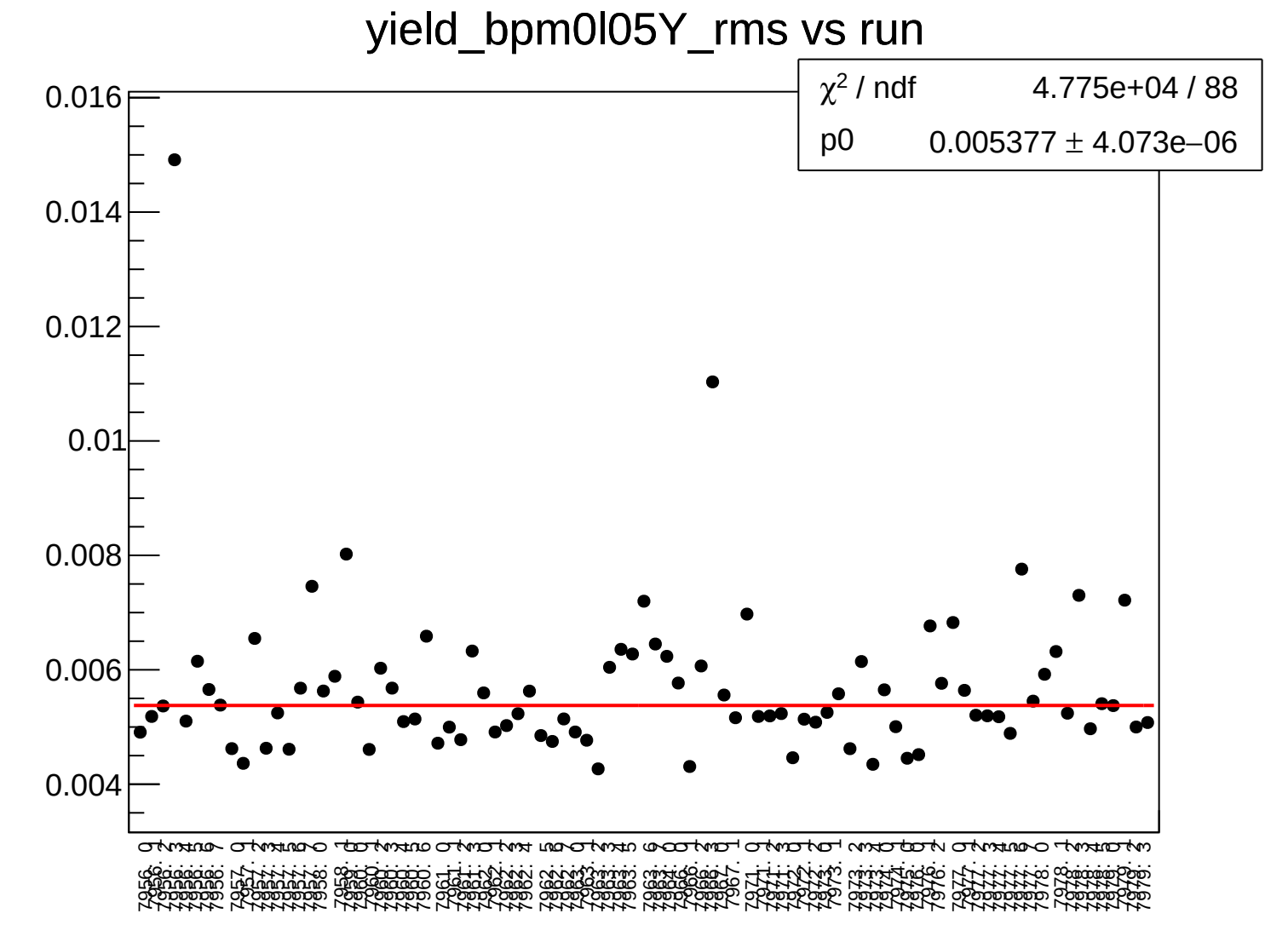

yield_bpm0l05X_mean vs run
χ² / ndf 3.273e+07 / 88
p0 0.5411 ± 3.723e−06
0.58
0.57
0.56
0.55
0.54
0.53
0.52
0.51
0.5
pull
Entries 89
Mean 566.7
Std Dev 0
1500
1000
500
0
−500
−1000

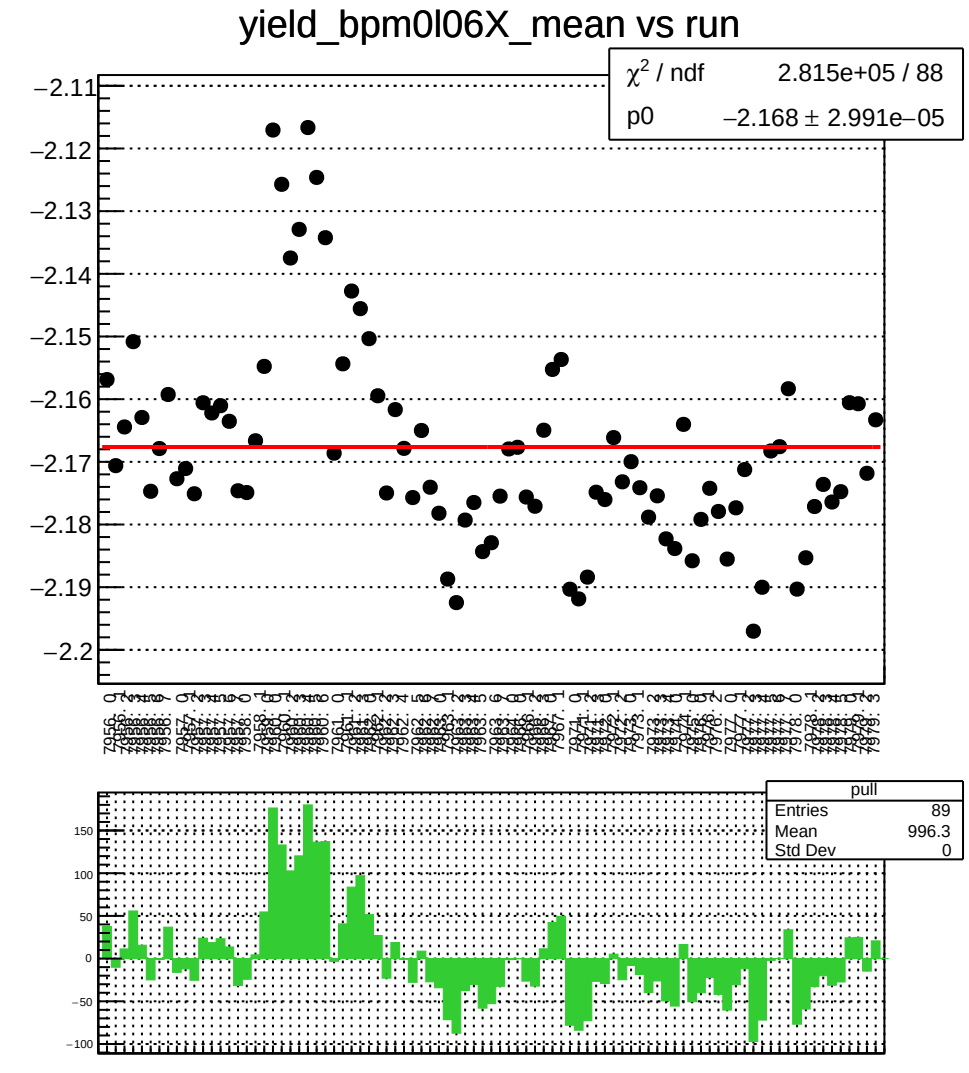

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

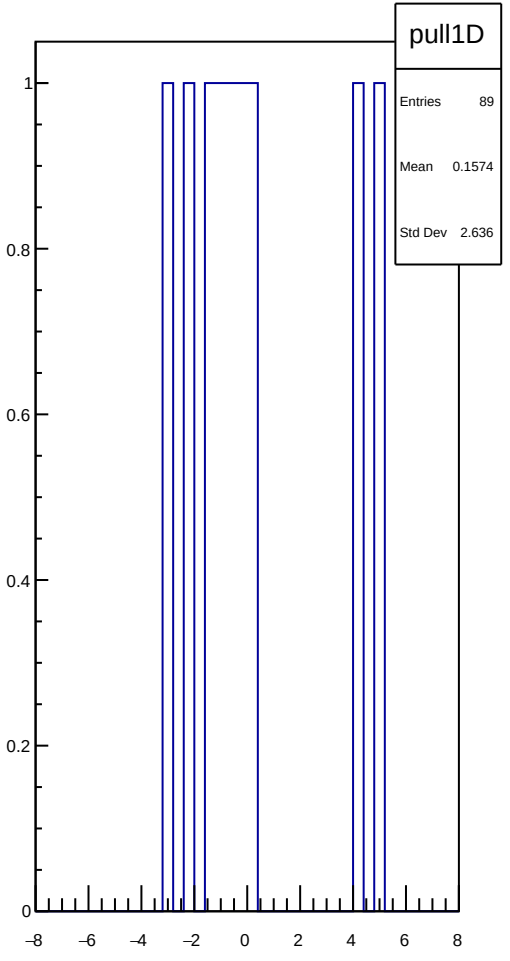

yield_bpm0l05X_rms vs run
$\chi^2$ / ndf 5.144e+04 / 88
p0 0.003471 ± 2.632e−06
0.007
0.006
0.005
0.004
0.003

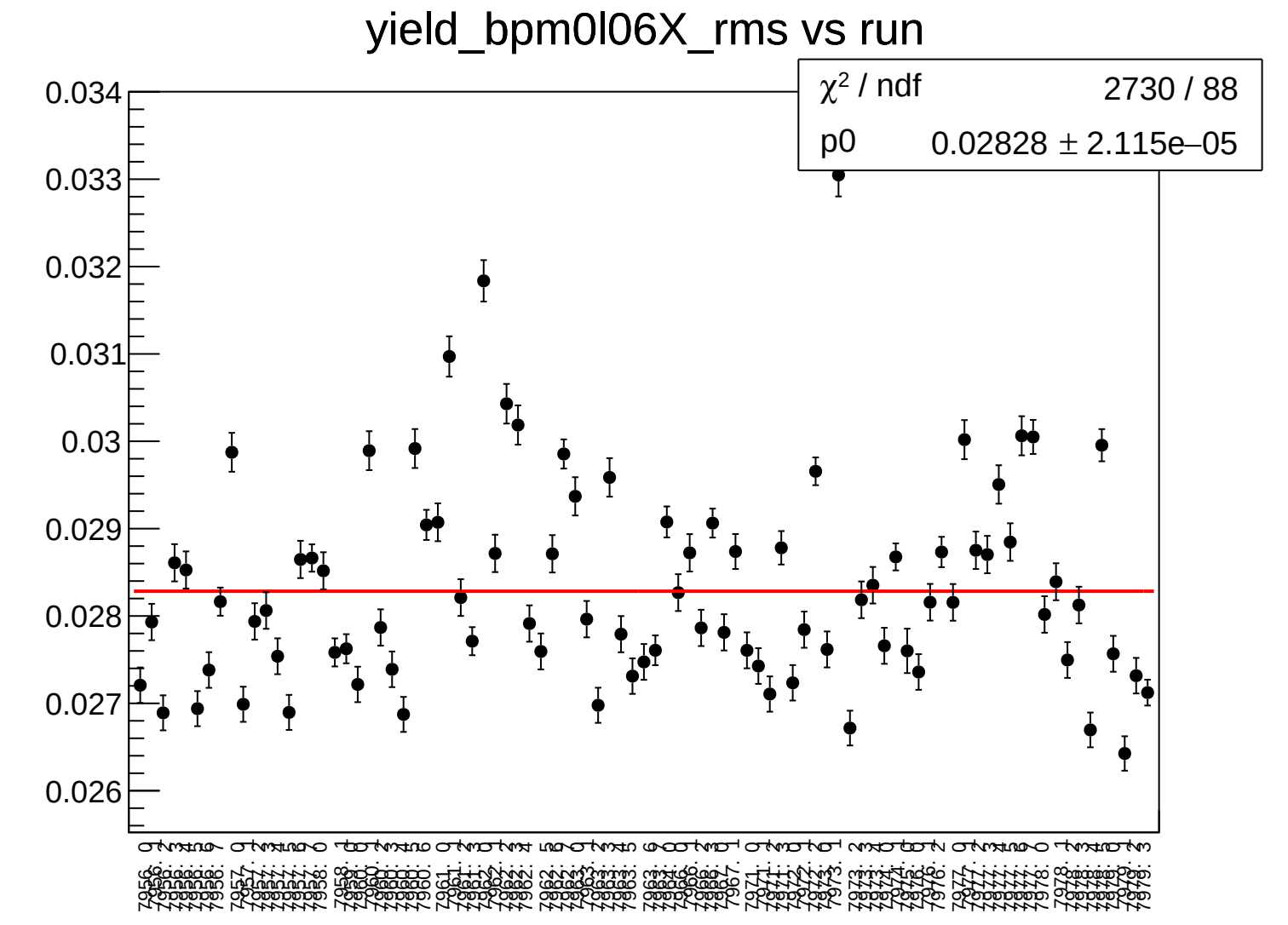

yield_bpm0l05Y_mean vs run
χ² / ndf 8.155e+06 / 88
p0 0.5991 ± 5.76e−06
0.63
0.62
0.61
0.6
0.59
0.58
0.57
0.56
pull
Entries 89
Mean −1562
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

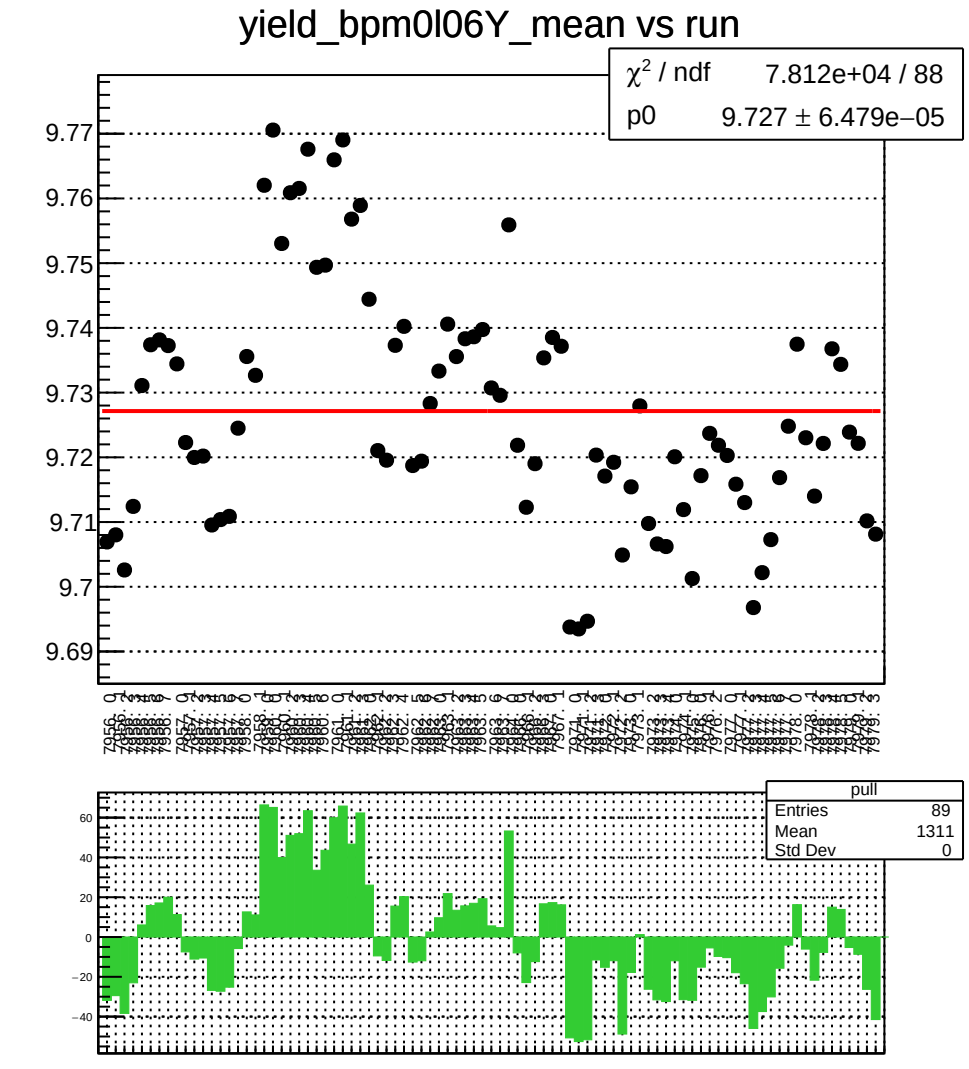

pull1D
Entries 89
Mean −1.226
Std Dev 4.729
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

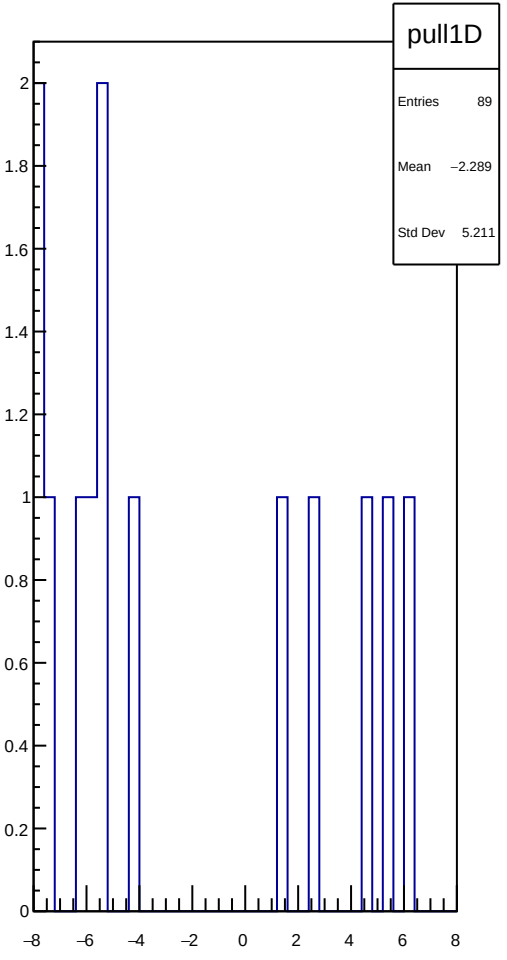

yield_bpm0l05Y_rms vs run
χ² / ndf 4.775e+04 / 88
p0 0.005377 ± 4.073e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

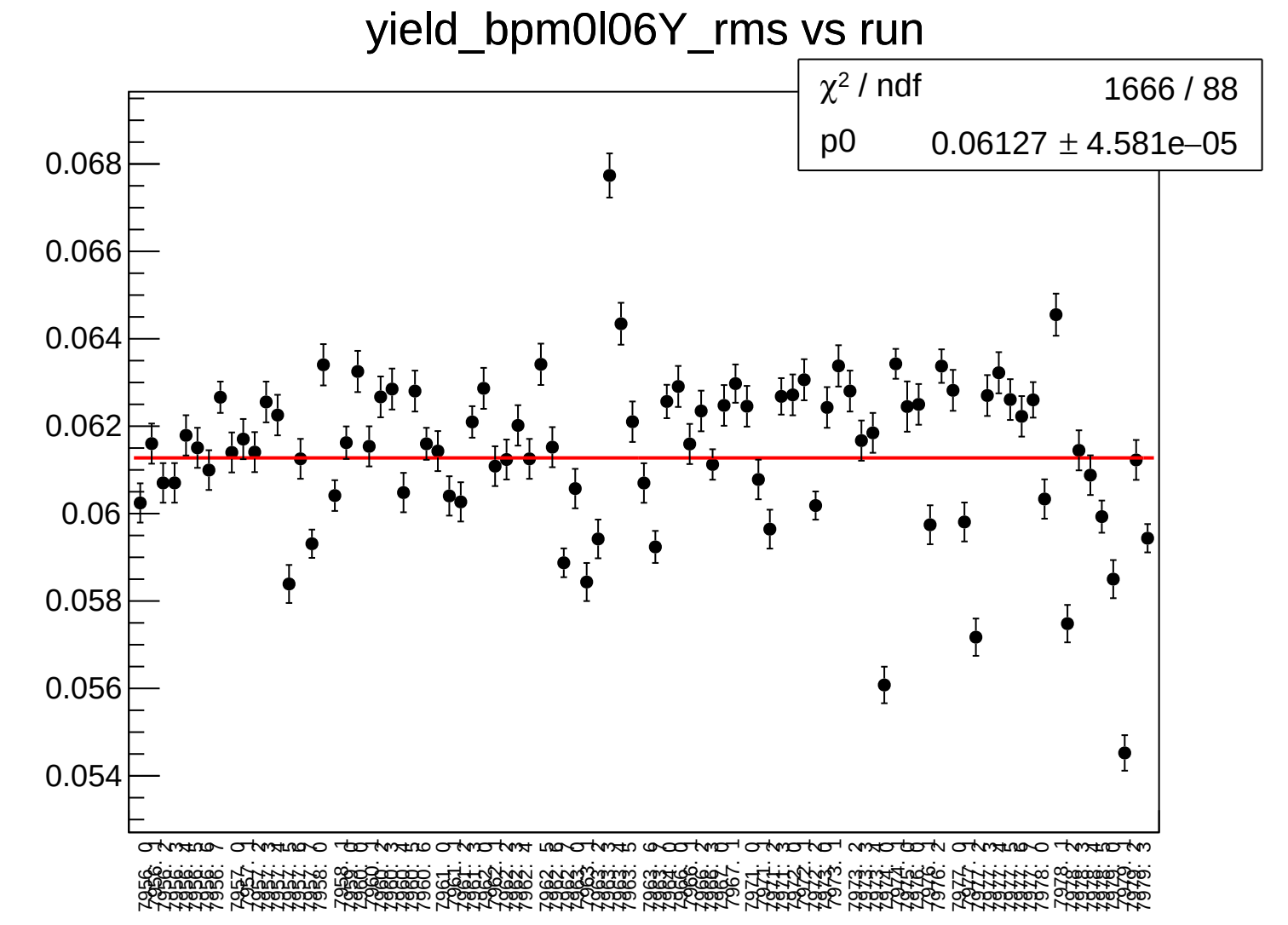

yield_bpm0l06X_mean vs run
χ² / ndf 2.815e+05 / 88
p0 −2.168 ± 2.991e−05
−2.11
−2.12
−2.13
−2.14
−2.15
−2.16
−2.17
−2.18
−2.19
−2.2
pull
Entries 89
Mean 996.3
Std Dev 0
150
100
50
0
−50
−100

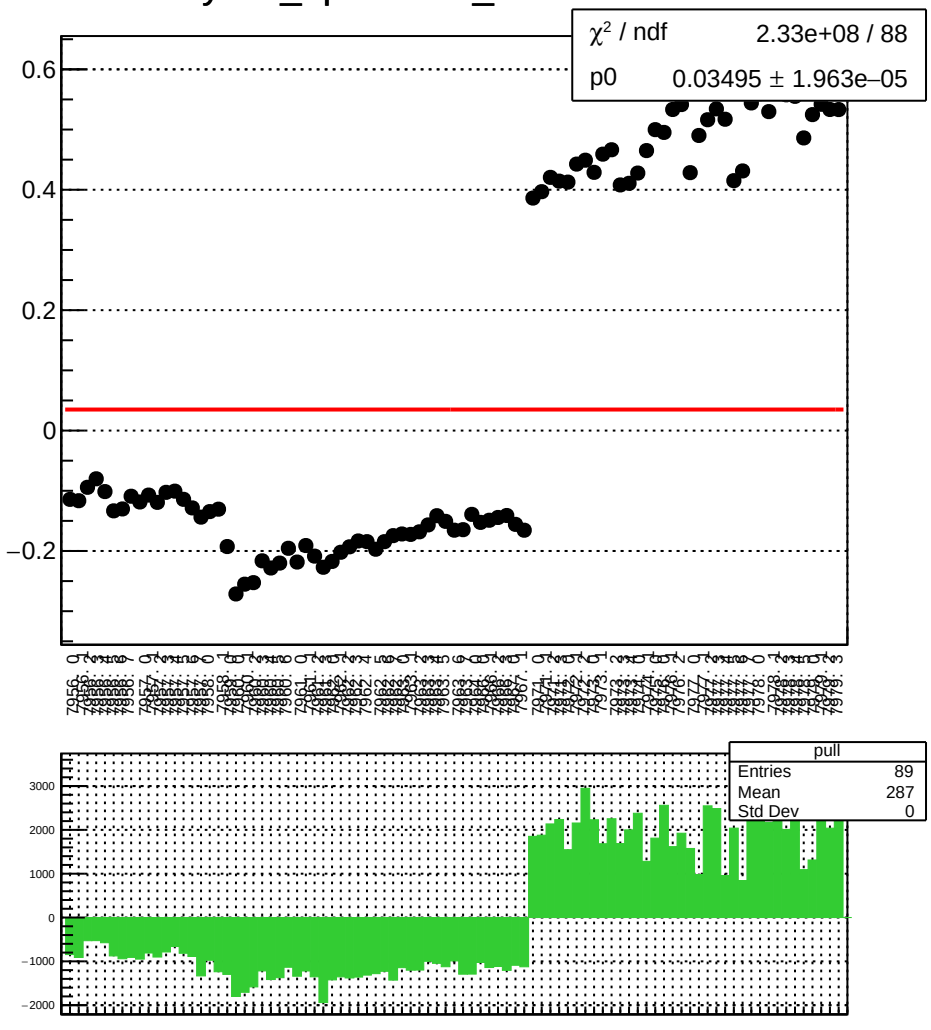

pull1D
Entries 89
Mean 0.1574
Std Dev 2.636
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

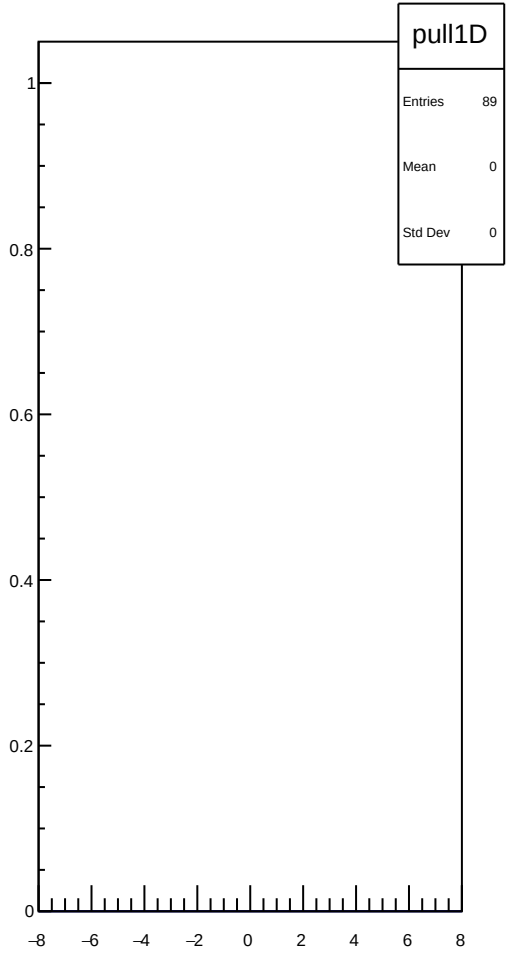

yield_bpm0l06X_rms vs run
χ² / ndf 2730 / 88
p0 0.02828 ± 2.115e−05
0.034
0.033
0.032
0.031
0.03
0.029
0.028
0.027
0.026

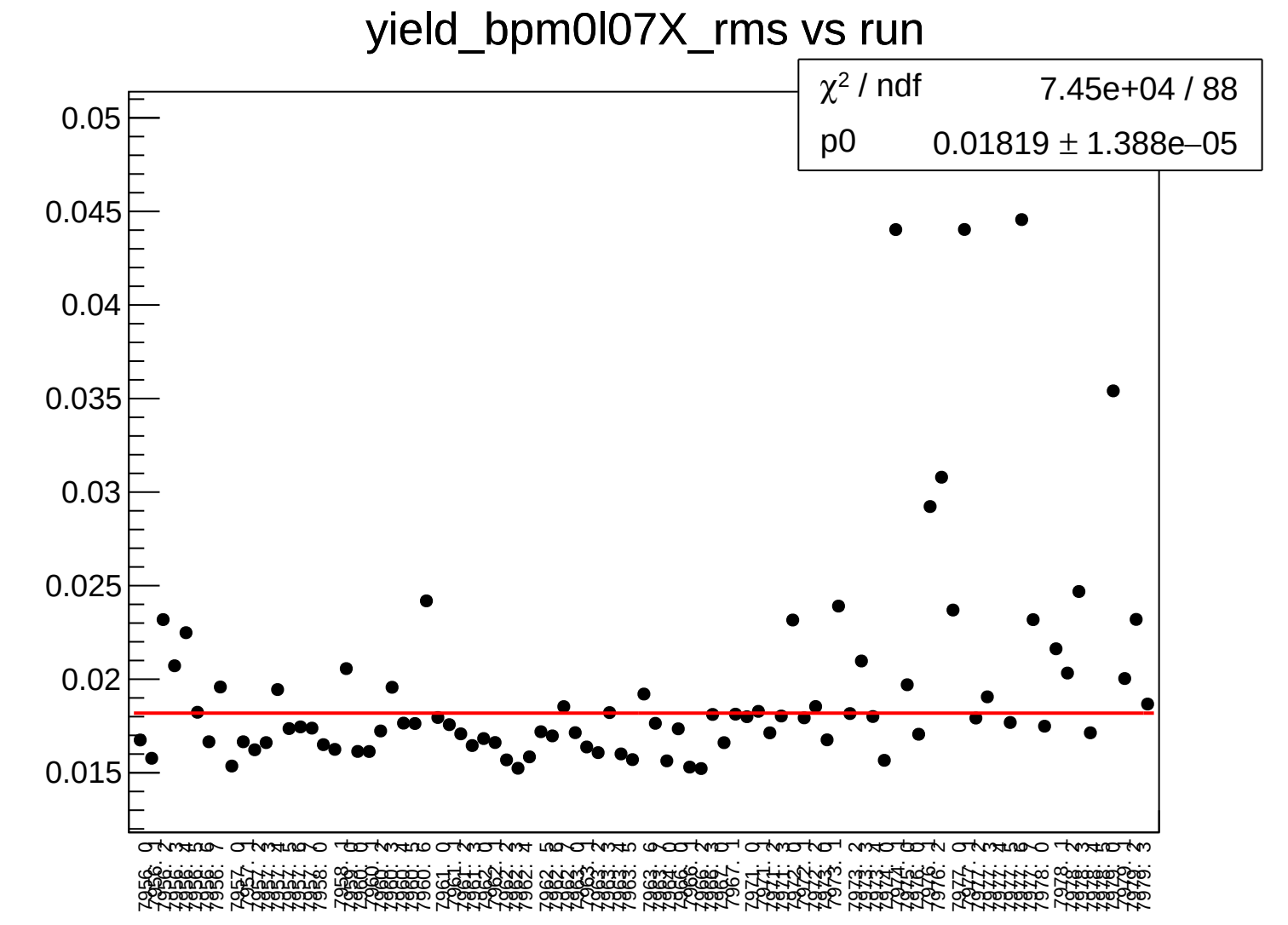

yield_bpm0l06Y_mean vs run
χ² / ndf 7.812e+04 / 88
p0 9.727 ± 6.479e−05
9.77
9.76
9.75
9.74
9.73
9.72
9.71
9.7
9.69
pull
Entries 89
Mean 1311
Std Dev 0
60
40
20
0
−20
−40

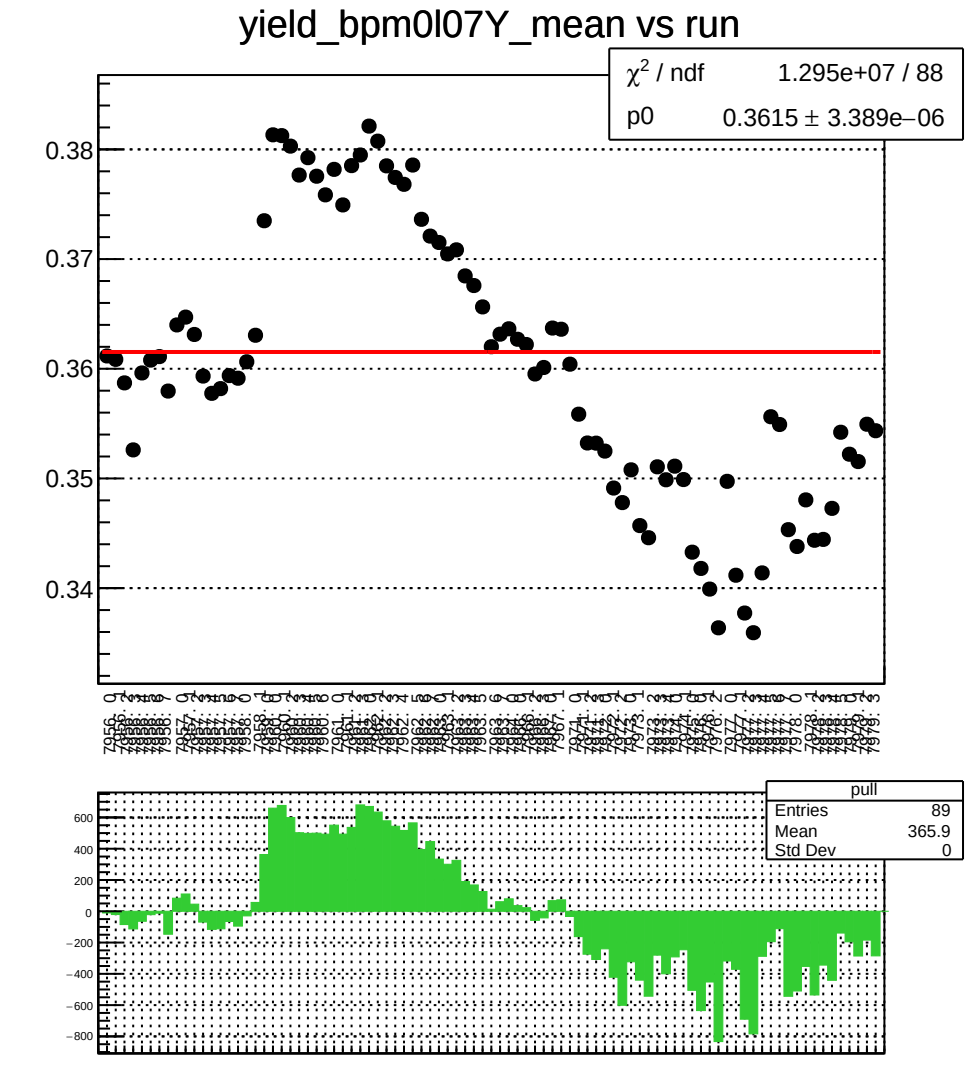

pull1D
Entries 89
Mean −2.289
Std Dev 5.211
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

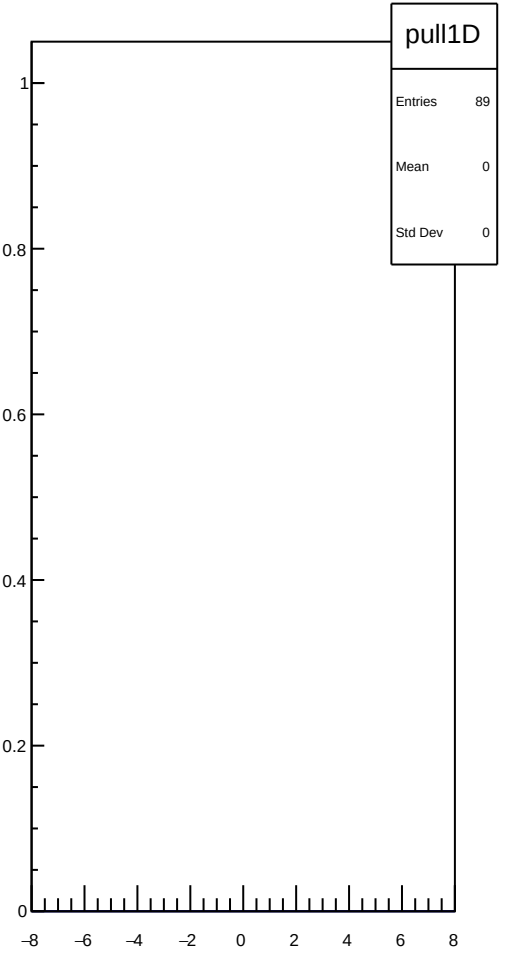

yield_bpm0l06Y_rms vs run
χ² / ndf 1666 / 88
p0 0.06127 ± 4.581e–05
0.068
0.066
0.064
0.062
0.06
0.058
0.056
0.054

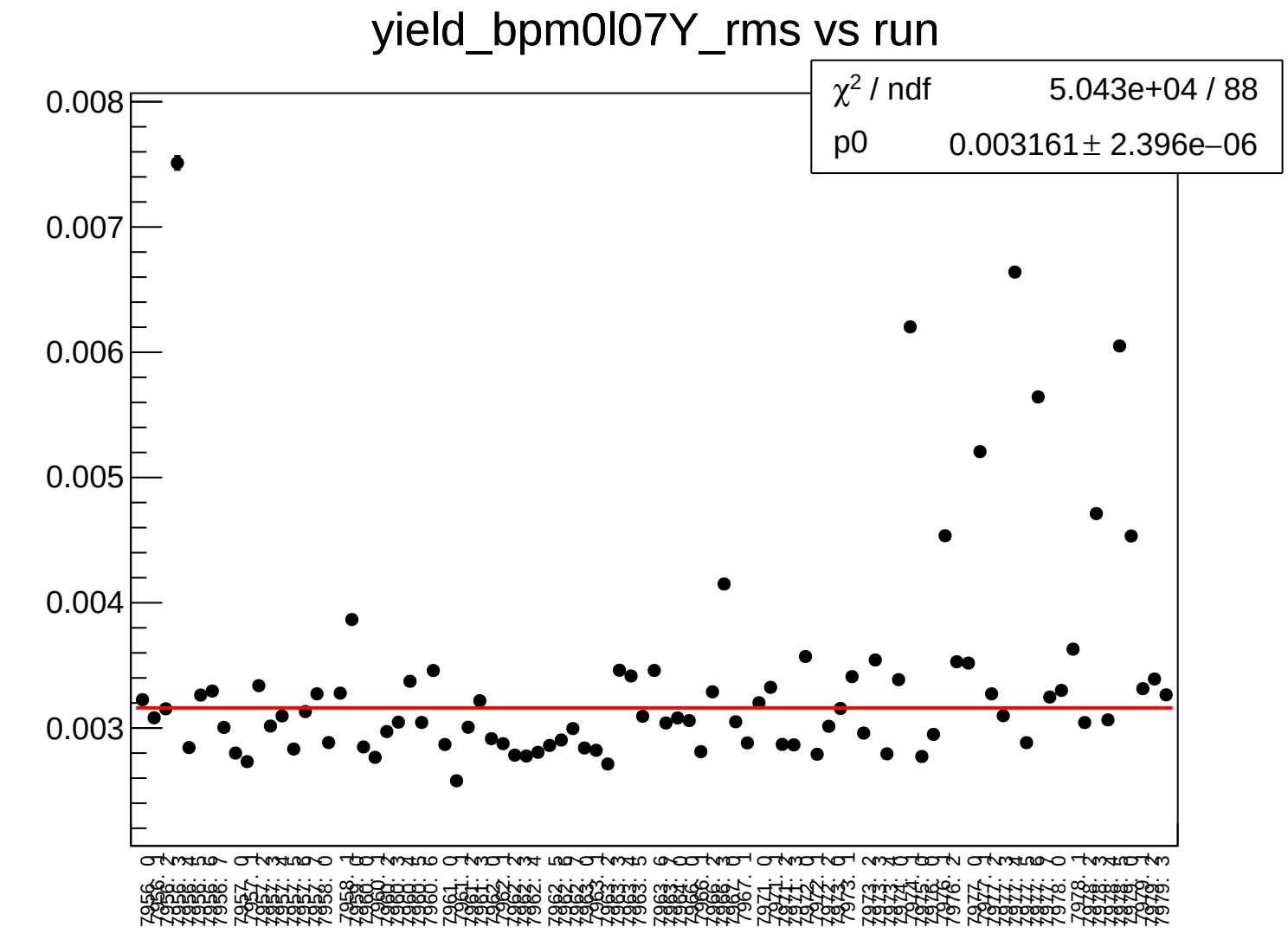

yield_bpm0l07X_mean vs run
χ² / ndf 2.33e+08 / 88
p0 0.03495 ± 1.963e−05
pull
Entries 89
Mean 287
Std Dev 0

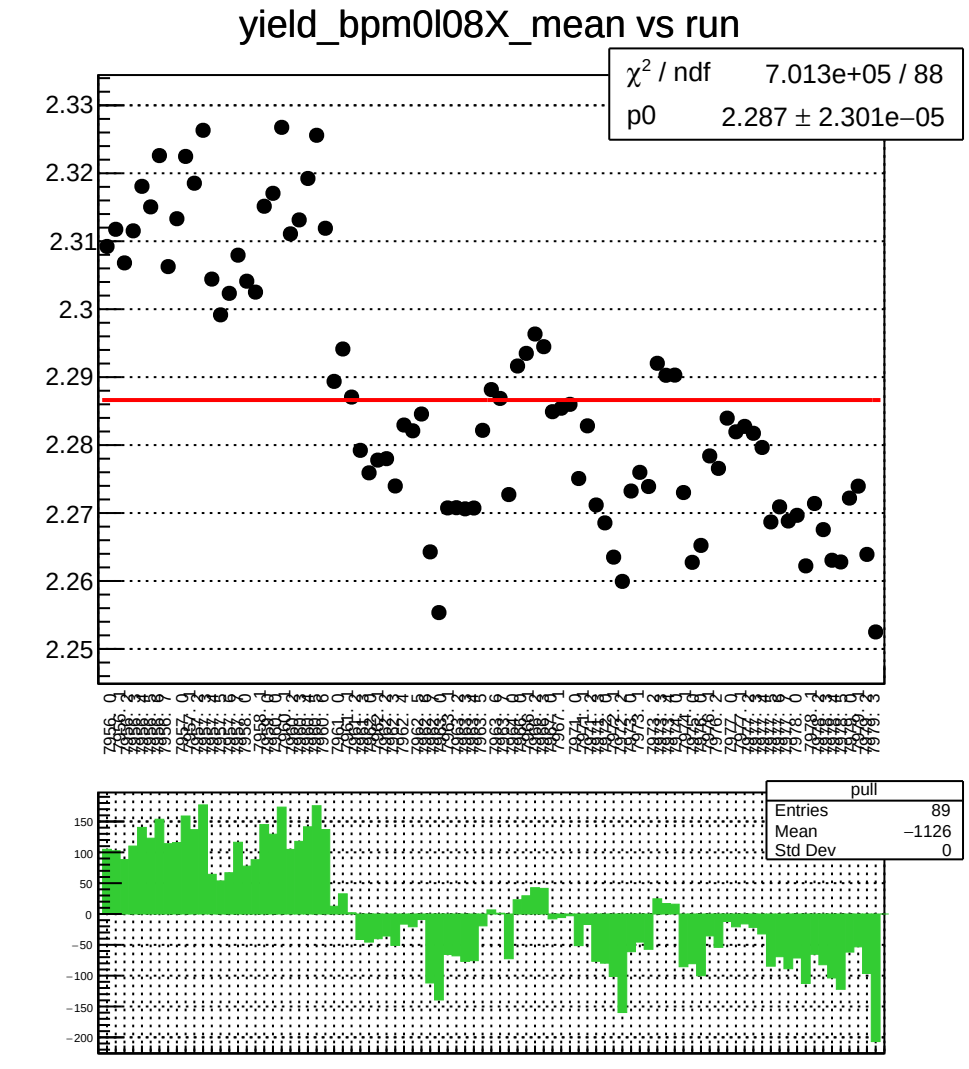

pull1D
Entries 89
Mean 0
Std Dev 0

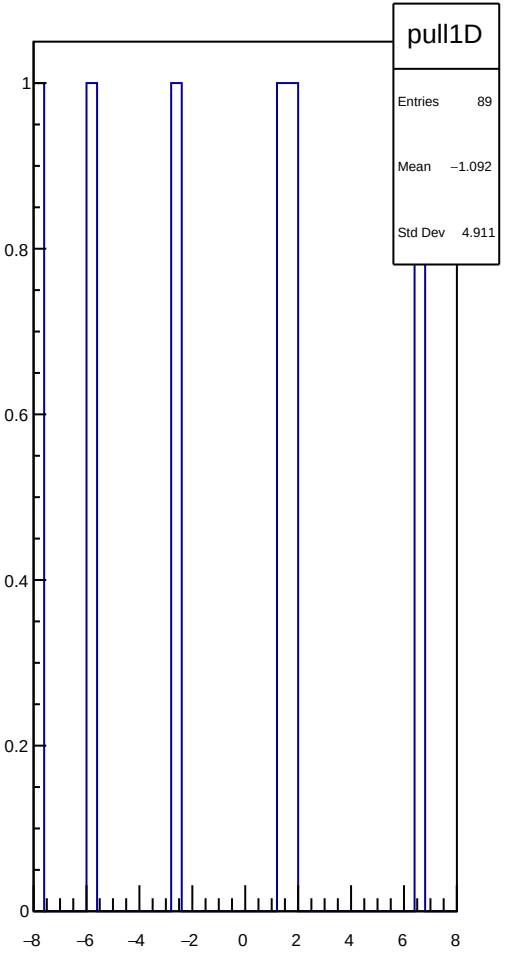

yield_bpm0l07X_rms vs run
χ² / ndf 7.45e+04 / 88
p0 0.01819 ± 1.388e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

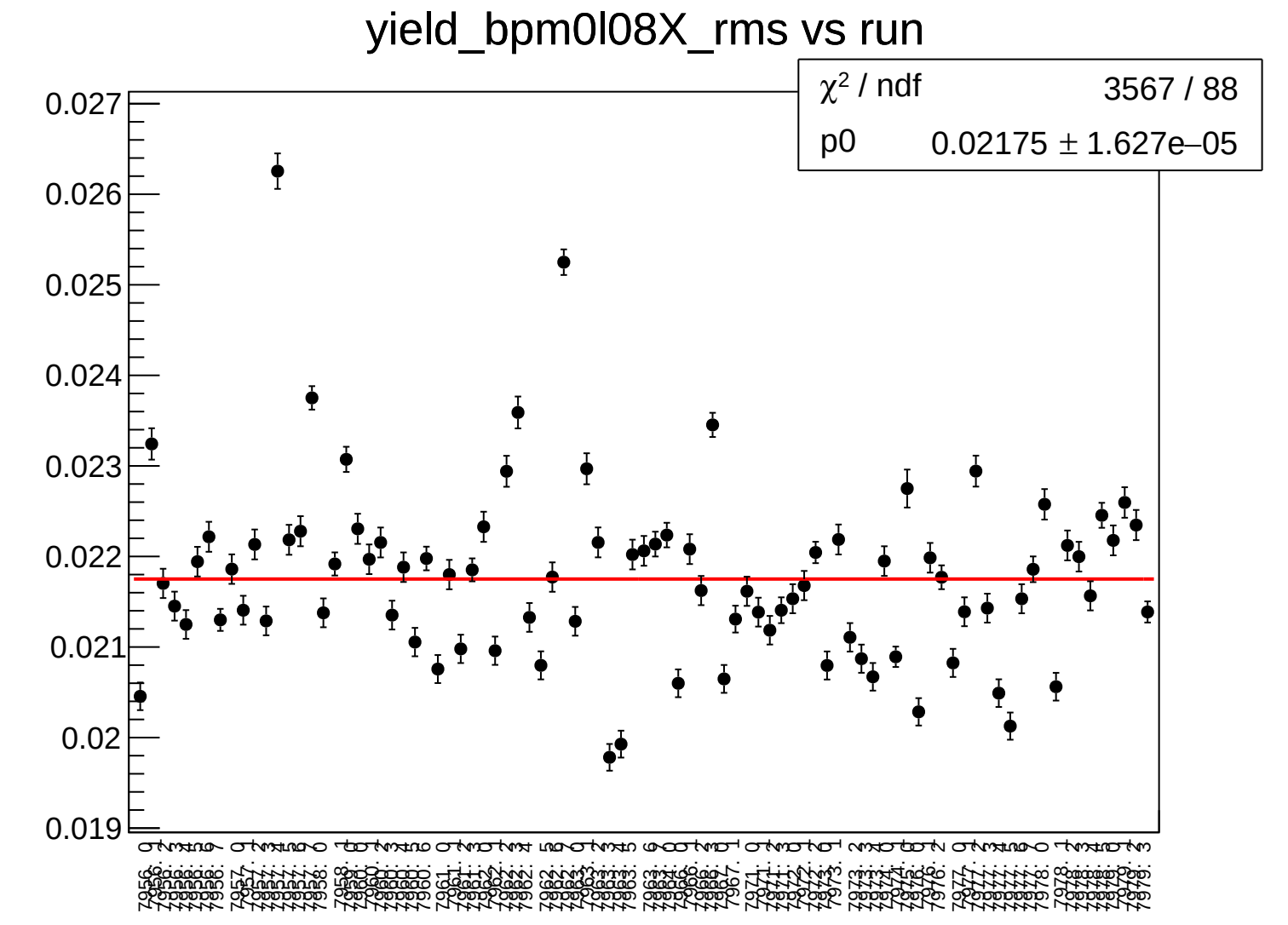

yield_bpm0l07Y_mean vs run
χ² / ndf 1.295e+07 / 88
p0 0.3615 ± 3.389e−06
0.38
0.37
0.36
0.35
0.34
pull
Entries 89
Mean 365.9
Std Dev 0
600
400
200
0
−200
−400
−600
−800

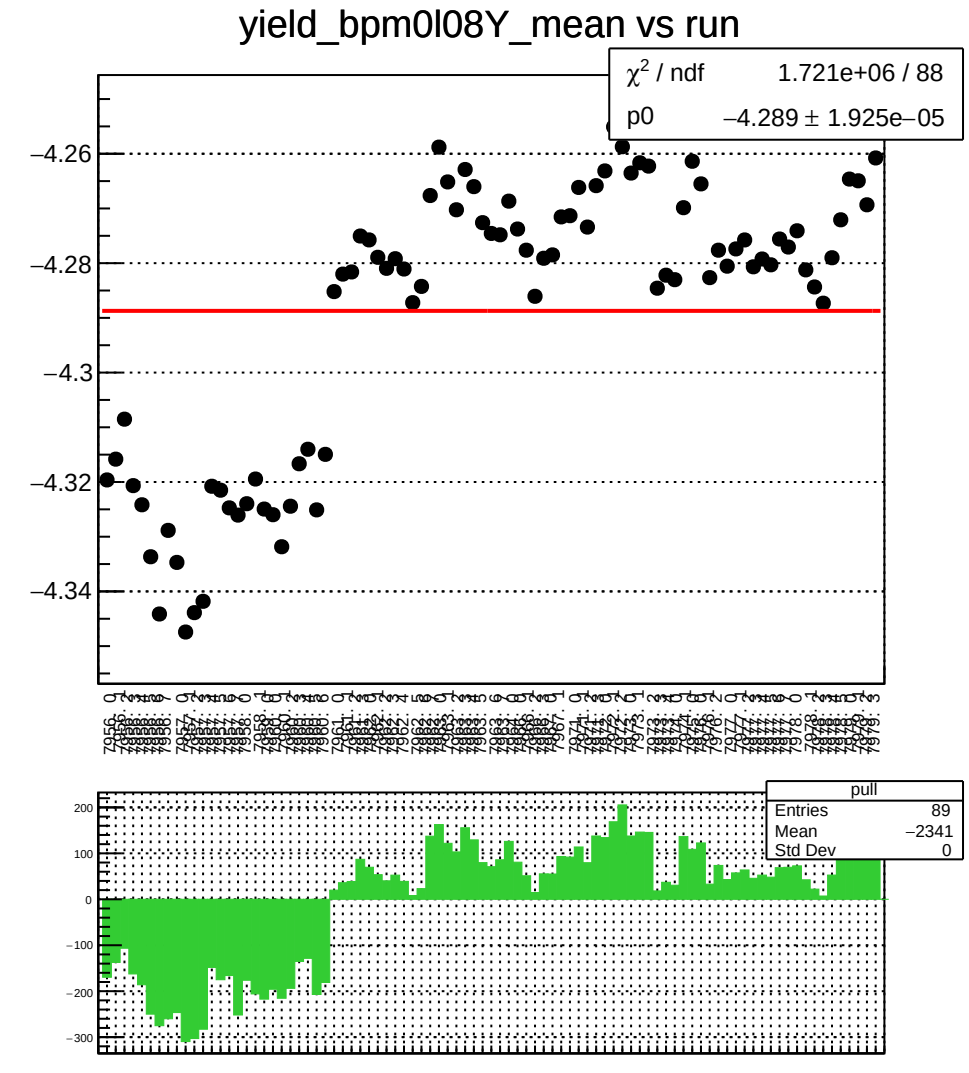

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

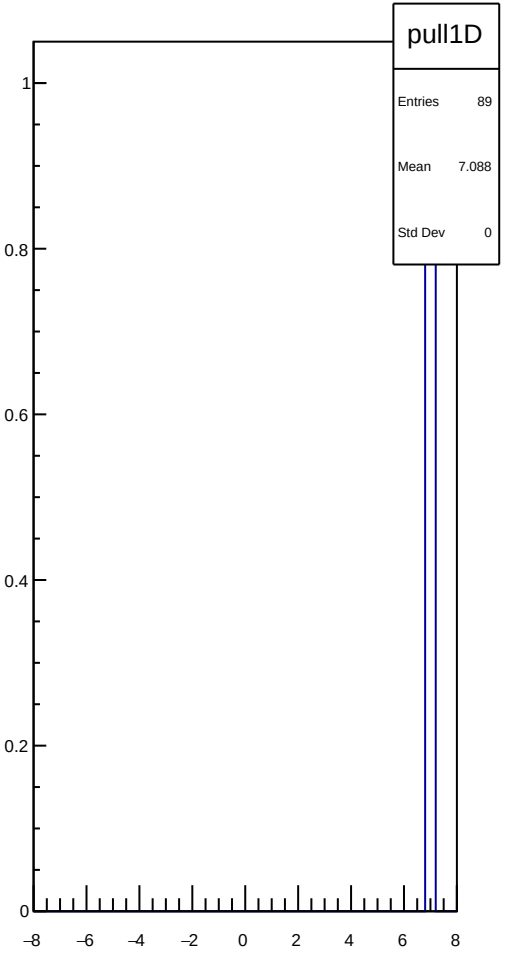

yield_bpm0l07Y_rms vs run
χ² / ndf 5.043e+04 / 88
p0 0.003161 ± 2.396e−06
0.008
0.007
0.006
0.005
0.004
0.003

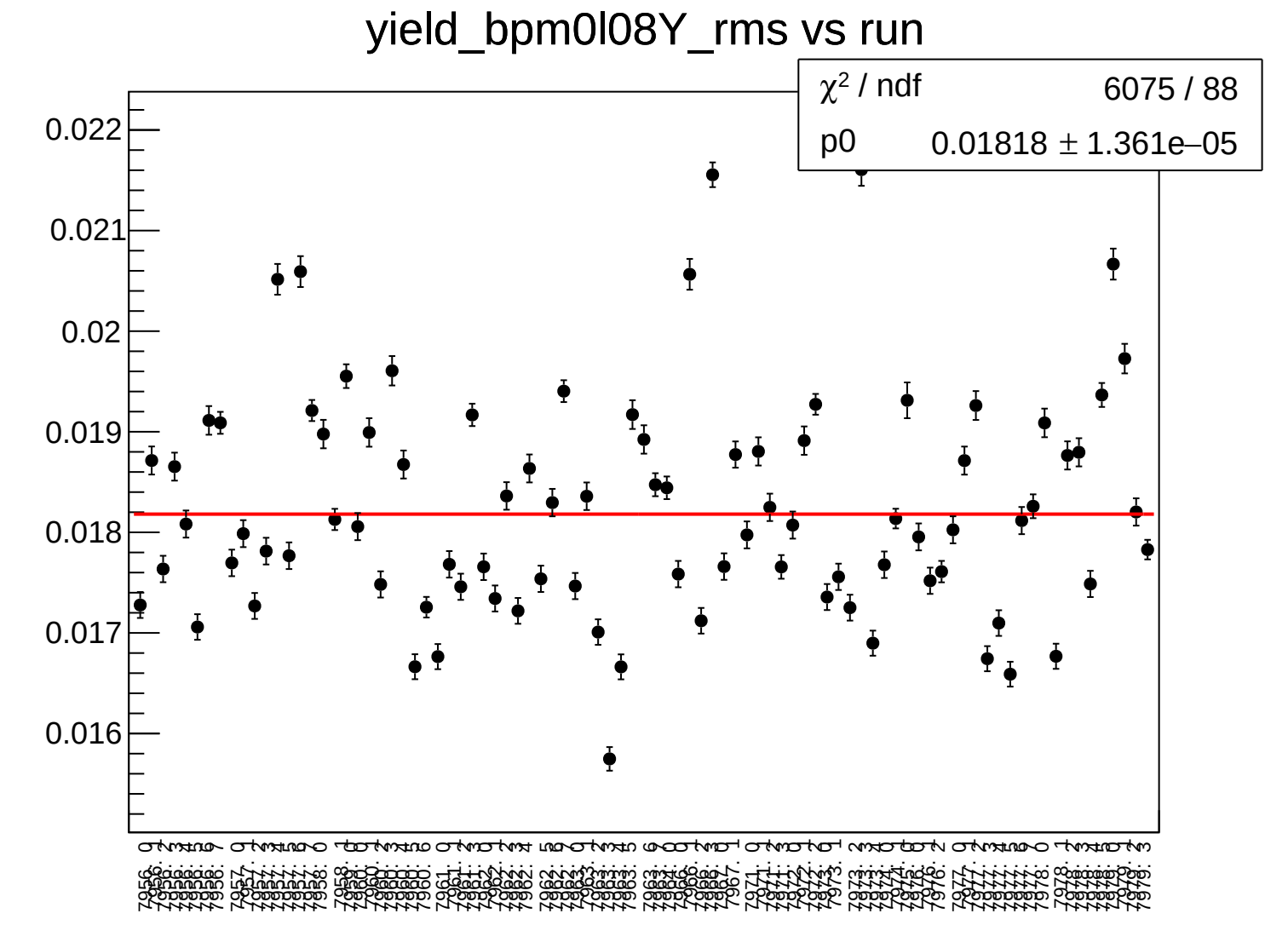

yield_bpm0l08X_mean vs run
χ² / ndf 7.013e+05 / 88
p0 2.287 ± 2.301e−05
2.33
2.32
2.31
2.3
2.29
2.28
2.27
2.26
2.25
pull
Entries 89
Mean −1126
Std Dev 0
150
100
50
0
−50
−100
−150
−200

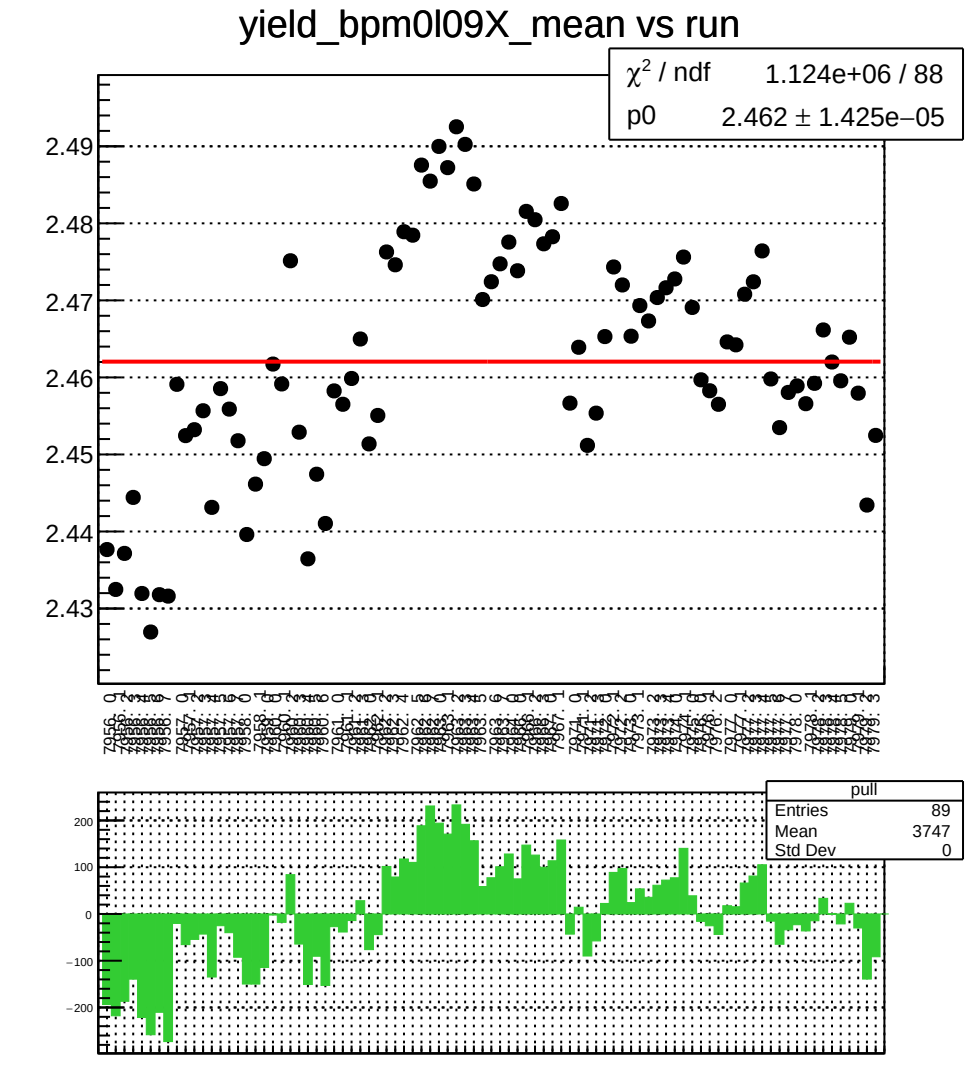

pull1D
Entries 89
Mean −1.092
Std Dev 4.911
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

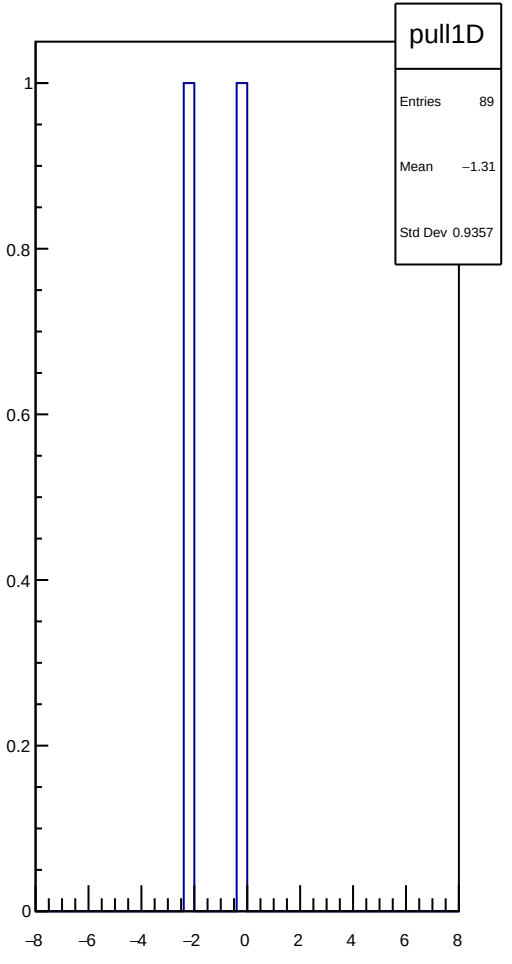

yield_bpm0l08X_rms vs run
χ² / ndf 3567 / 88
p0 0.02175 ± 1.627e–05
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019

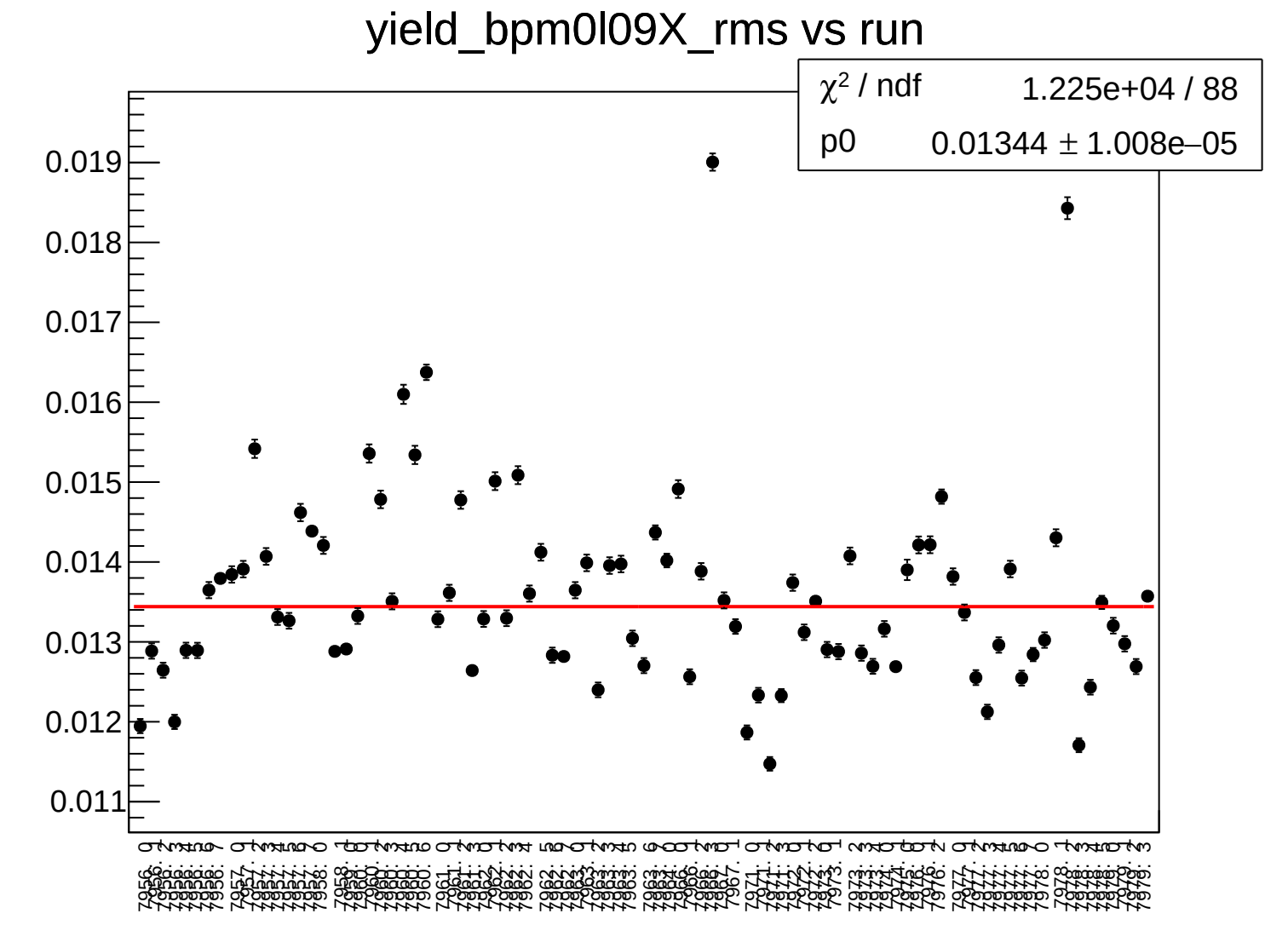

yield_bpm0l08Y_mean vs run
χ² / ndf 1.721e+06 / 88
p0 −4.289 ± 1.925e−05
−4.26
−4.28
−4.3
−4.32
−4.34
pull
Entries 89
Mean −2341
Std Dev 0
200
100
0
−100
−200
−300

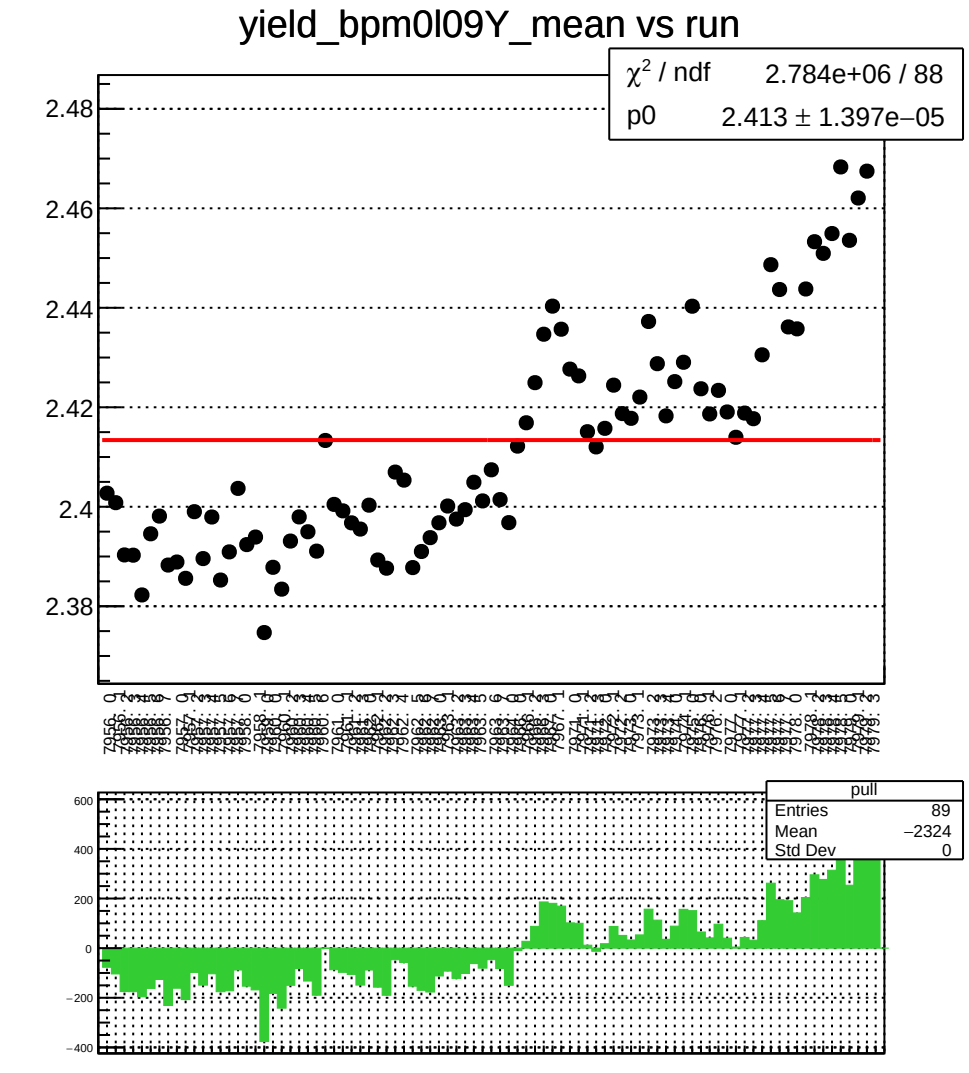

pull1D
Entries 89
Mean 7.088
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

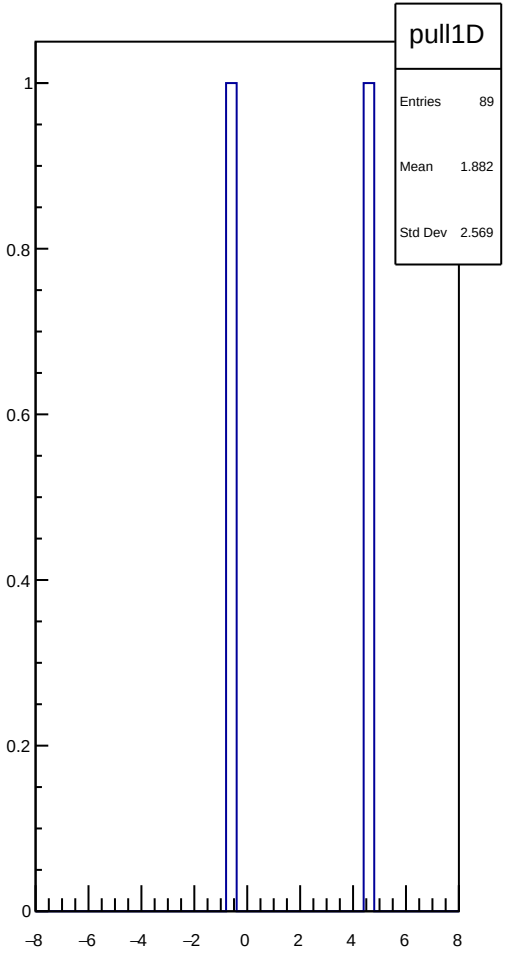

yield_bpm0l08Y_rms vs run
χ² / ndf 6075 / 88
p0 0.01818 ± 1.361e–05
0.022
0.021
0.02
0.019
0.018
0.017
0.016

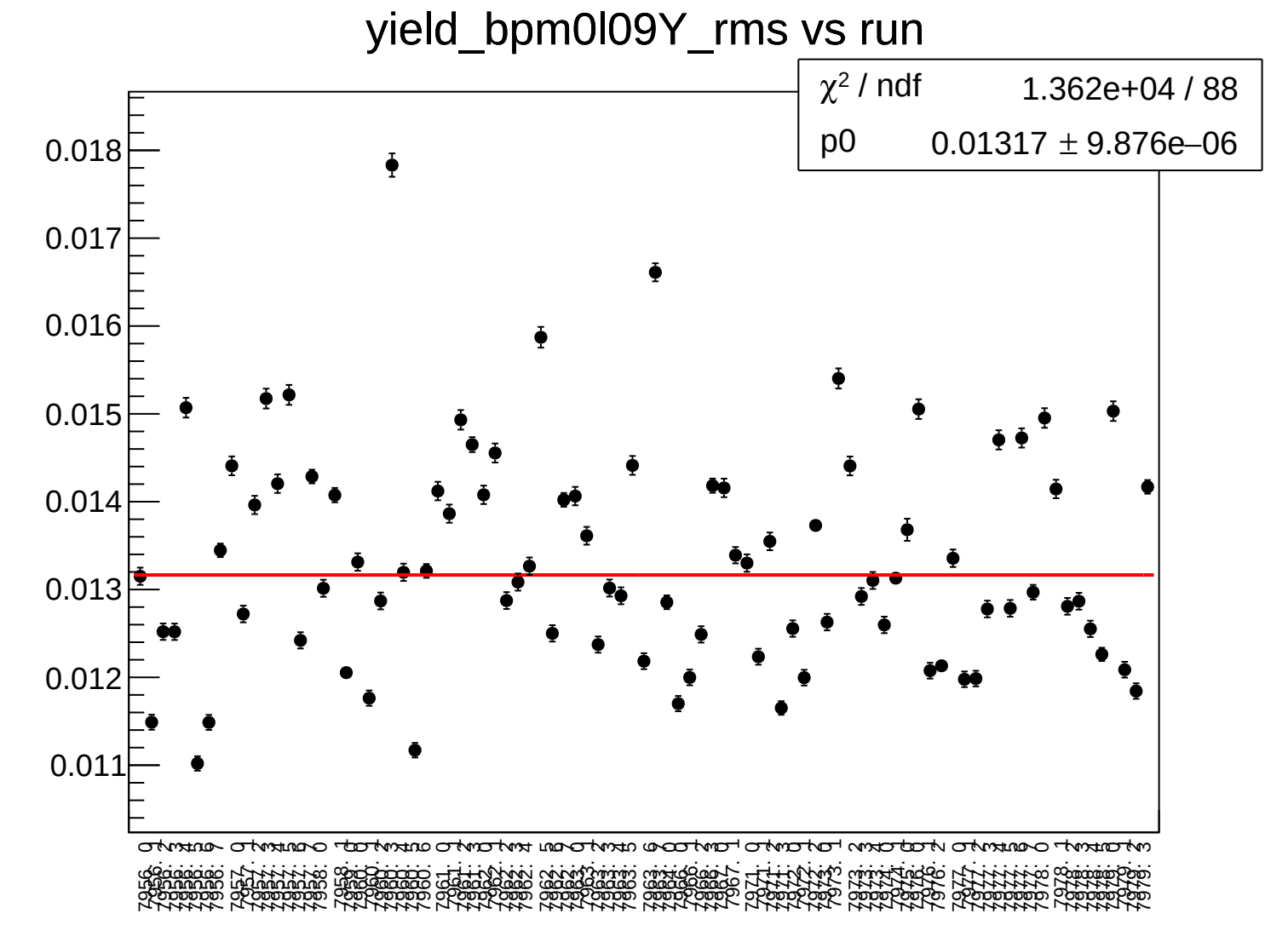

yield_bpm0l09X_mean vs run
χ² / ndf 1.124e+06 / 88
p0 2.462 ± 1.425e−05
2.49
2.48
2.47
2.46
2.45
2.44
2.43
pull
Entries 89
Mean 3747
Std Dev 0
200
100
0
−100
−200

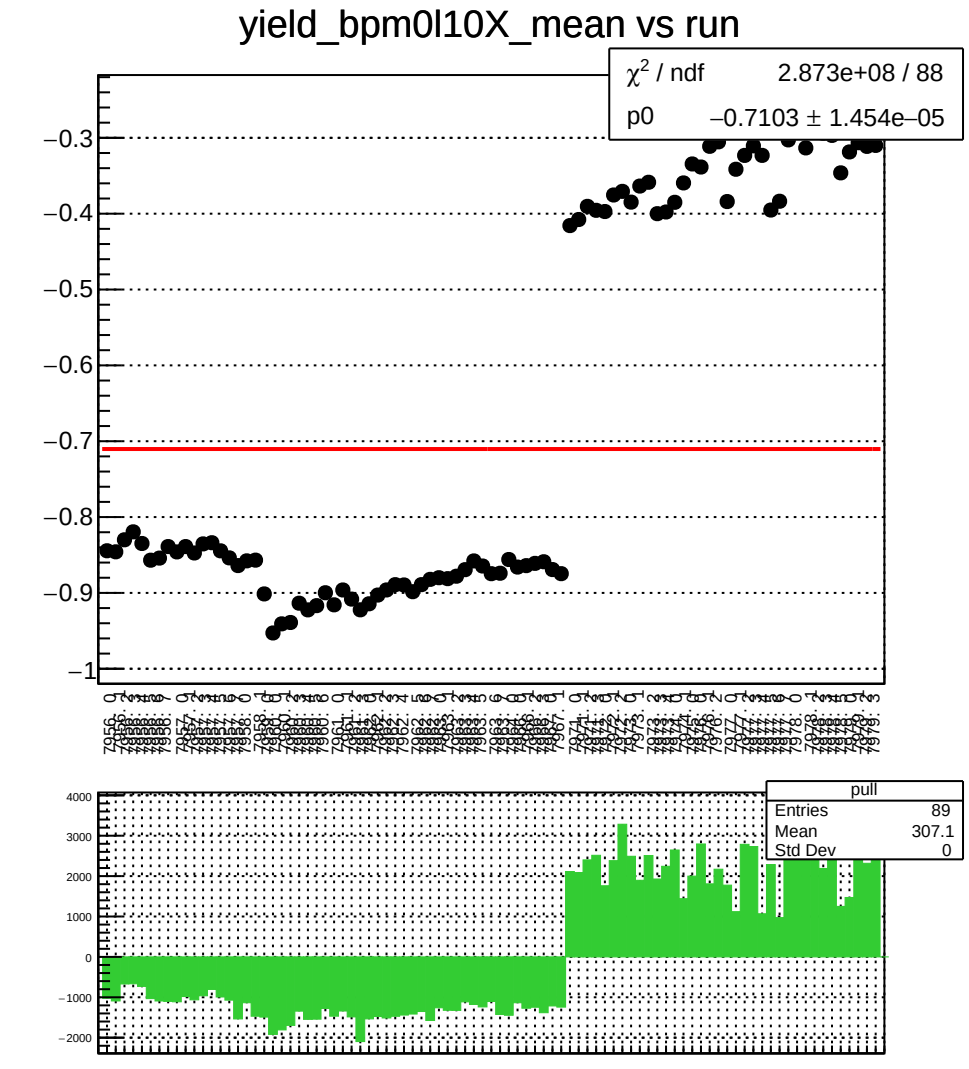

pull1D
Entries 89
Mean −1.31
Std Dev 0.9357
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

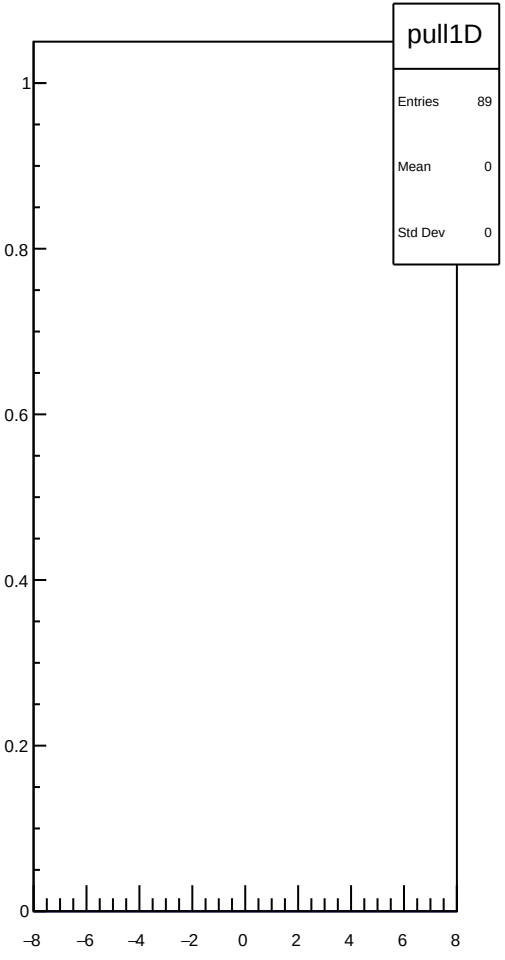

yield_bpm0l09X_rms vs run
χ² / ndf 1.225e+04 / 88
p0 0.01344 ± 1.008e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

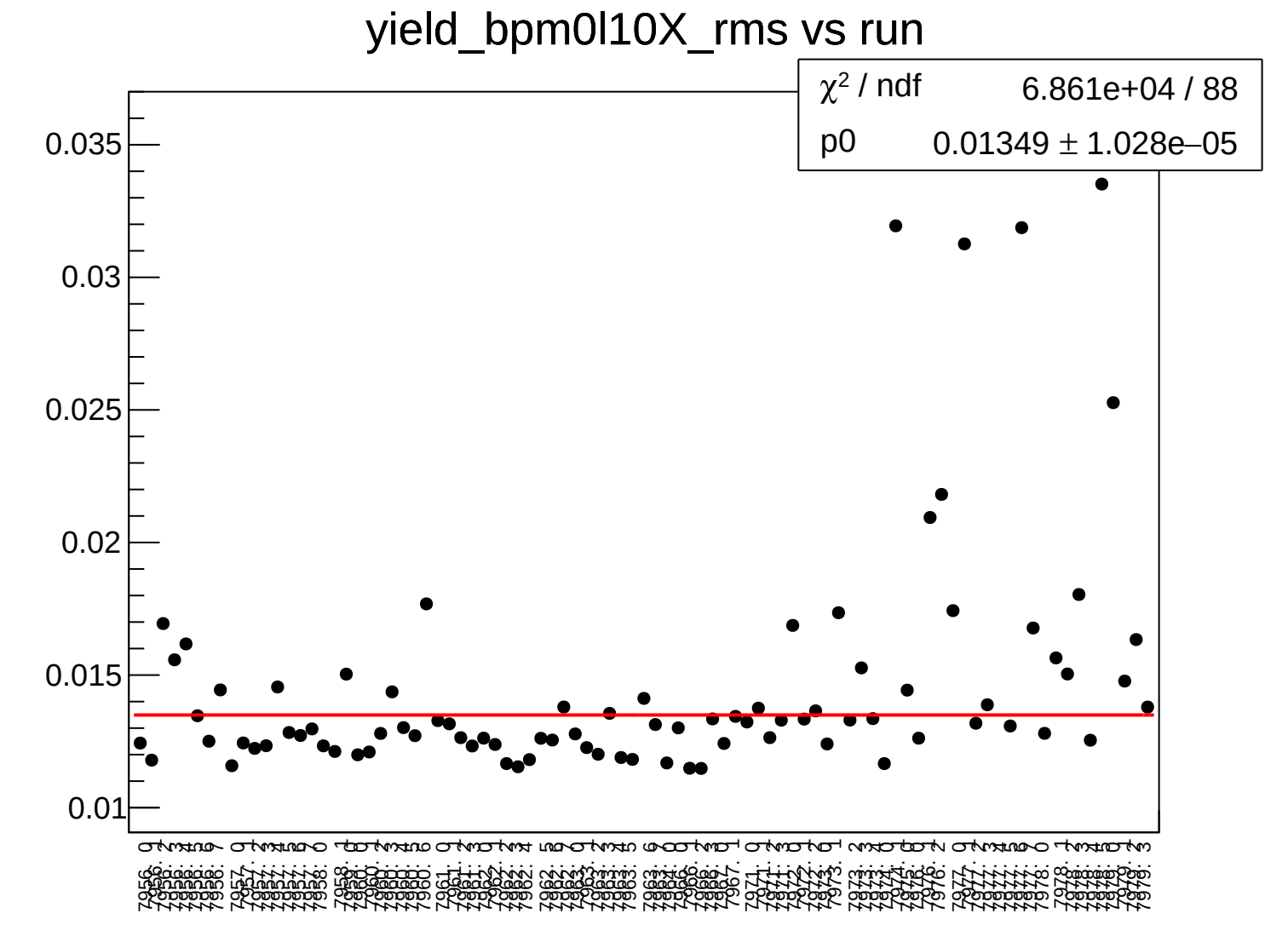

yield_bpm0l09Y_mean vs run
χ² / ndf 2.784e+06 / 88
p0 2.413 ± 1.397e−05
2.48
2.46
2.44
2.42
2.4
2.38
pull
Entries 89
Mean −2324
Std Dev 0
600
400
200
0
−200
−400

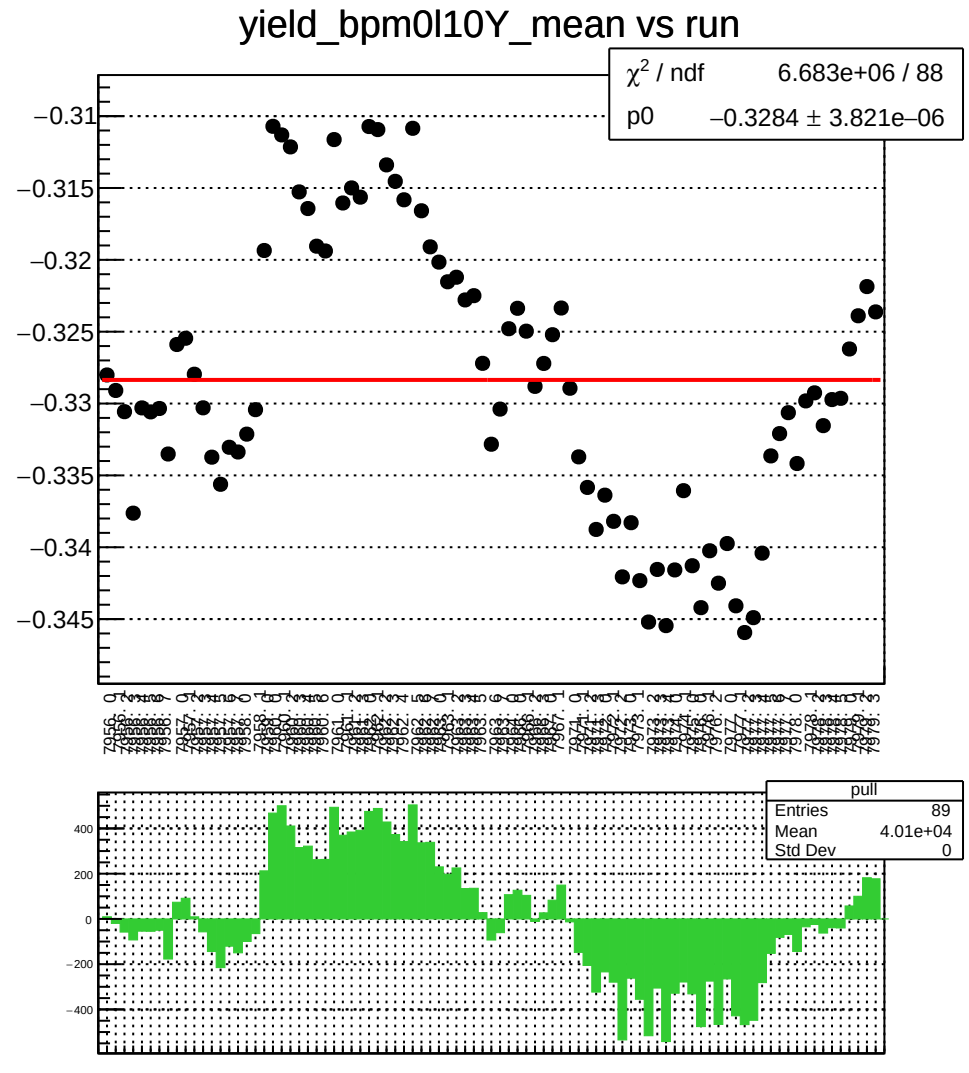

pull1D
Entries 89
Mean 1.882
Std Dev 2.569
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

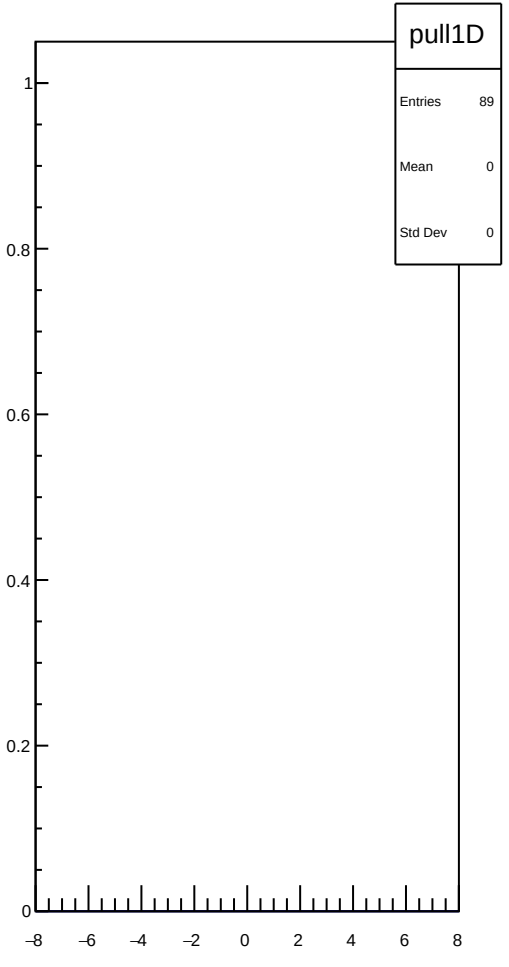

yield_bpm0l09Y_rms vs run
χ² / ndf 1.362e+04 / 88
p0 0.01317 ± 9.876e–06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

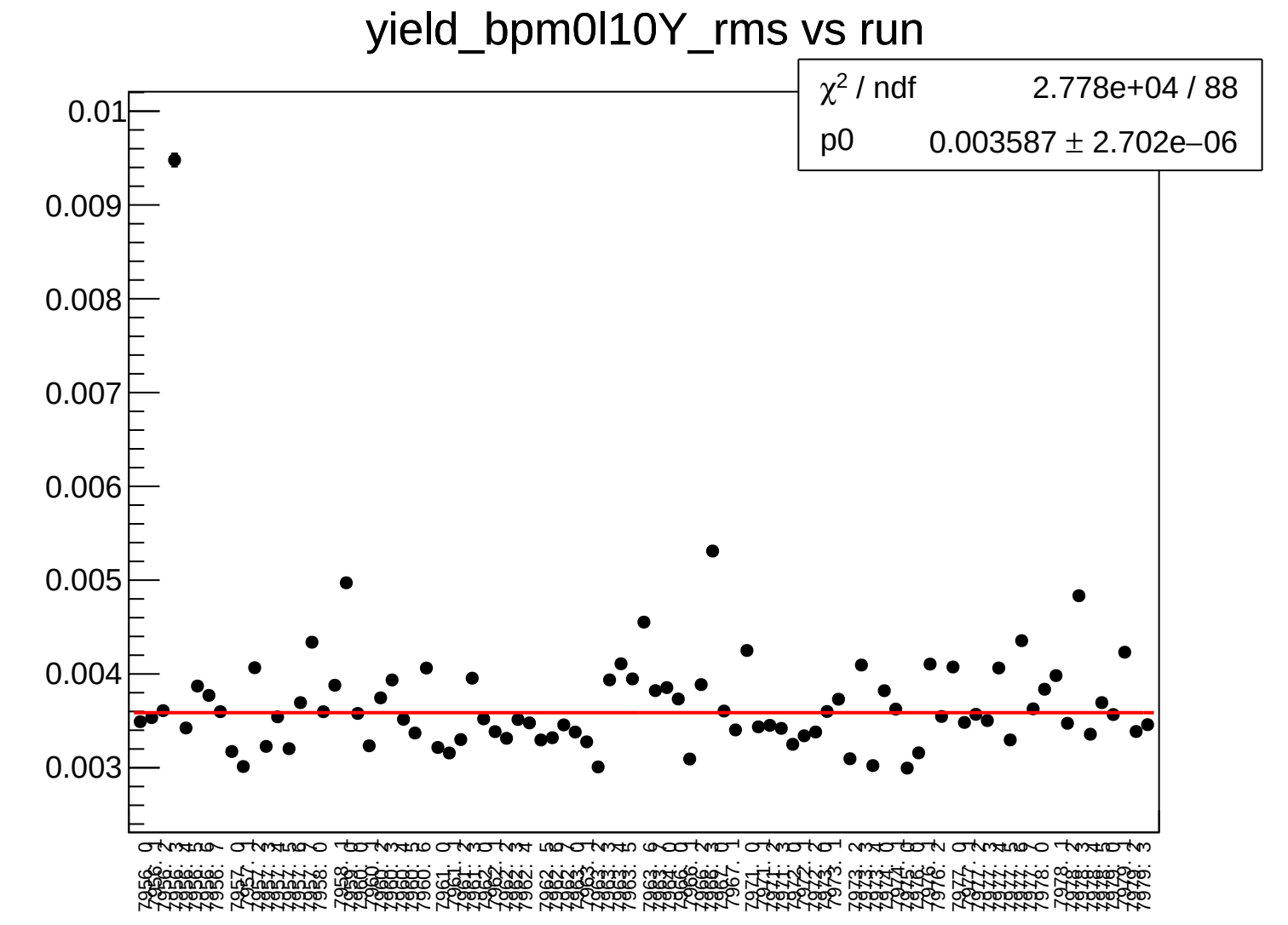

yield_bpm0l10X_mean vs run
χ² / ndf 2.873e+08 / 88
p0 −0.7103 ± 1.454e−05
pull
Entries 89
Mean 307.1
Std Dev 0

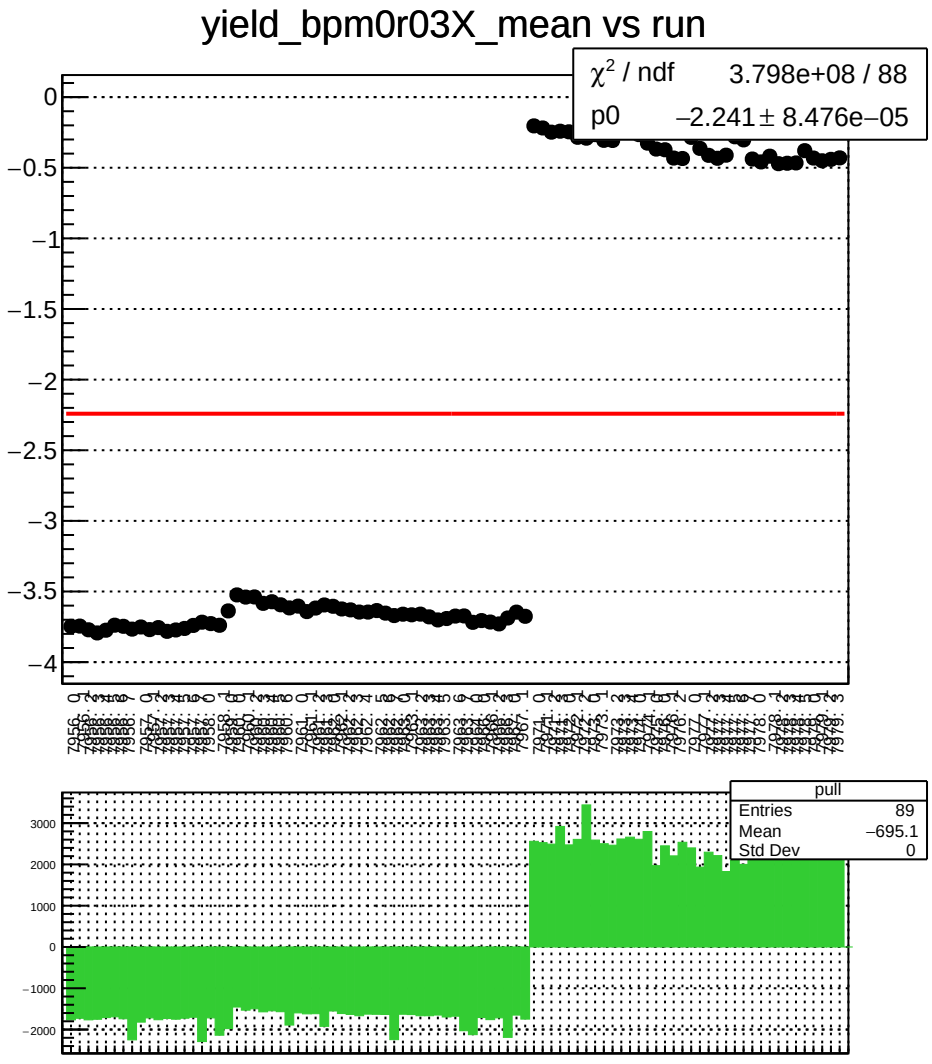

pull1D
Entries 89
Mean 0
Std Dev 0

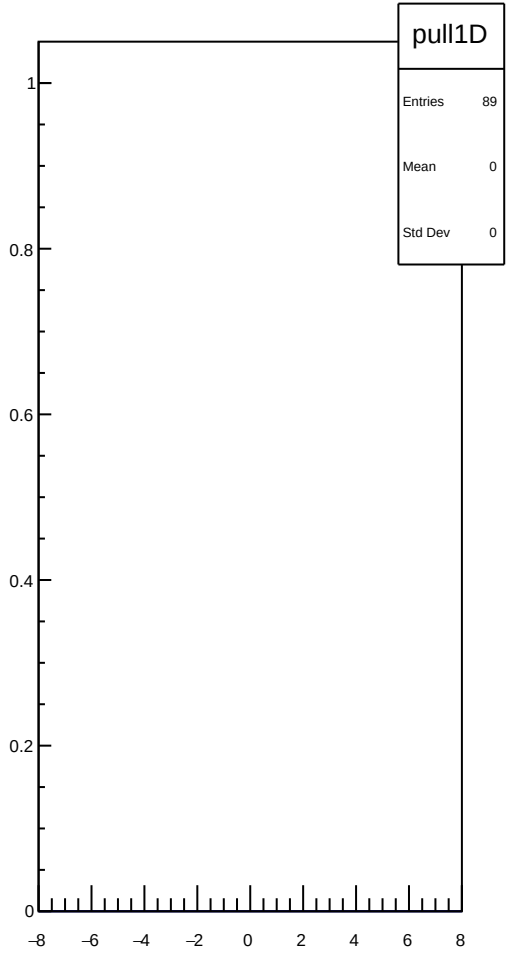

yield_bpm0l10X_rms vs run
χ² / ndf 6.861e+04 / 88
p0 0.01349 ± 1.028e–05
0.035
0.03
0.025
0.02
0.015
0.01

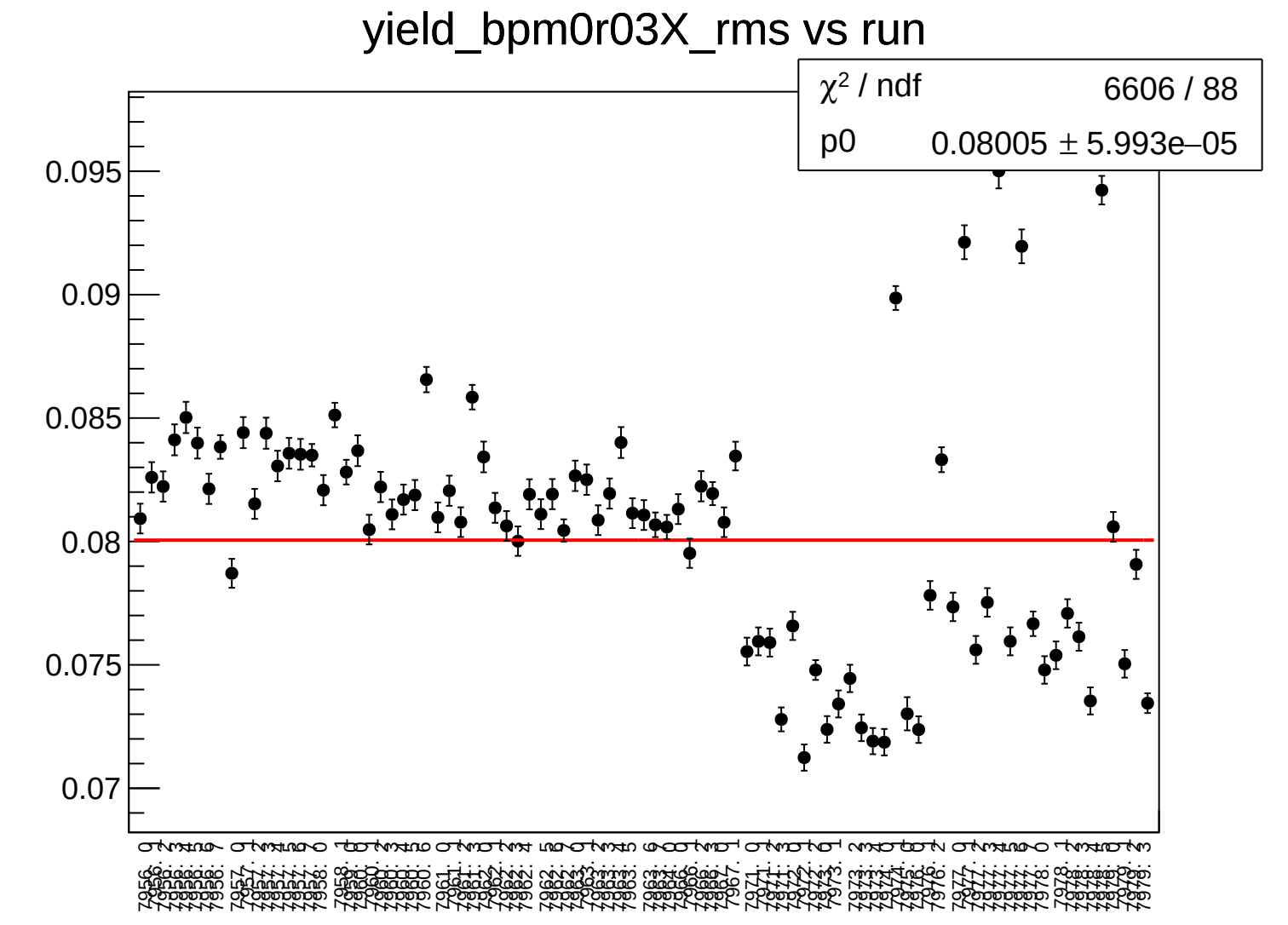

yield_bpm0l10Y_mean vs run
χ² / ndf 6.683e+06 / 88
p0 −0.3284 ± 3.821e−06
−0.31
−0.315
−0.32
−0.325
−0.33
−0.335
−0.34
−0.345
pull
Entries 89
Mean 4.01e+04
Std Dev 0
400
200
0
−200
−400

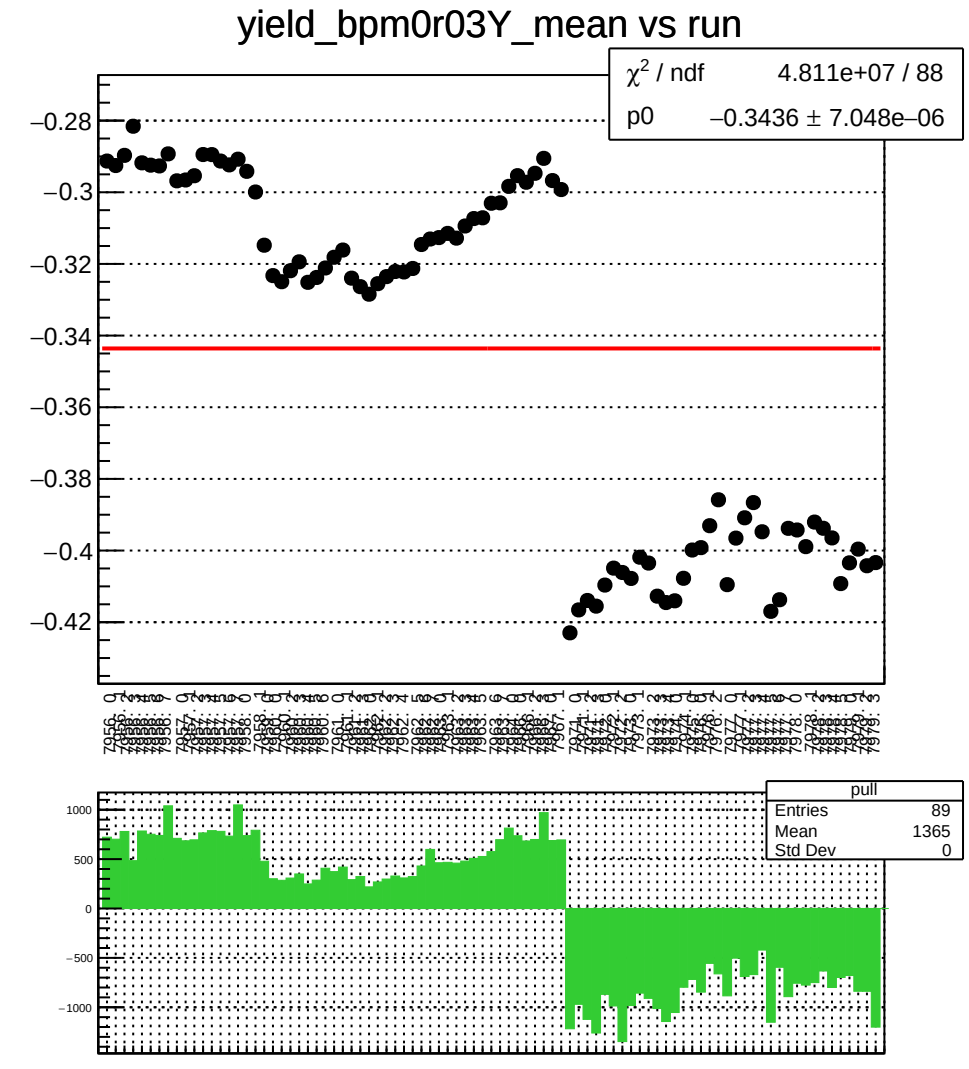

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

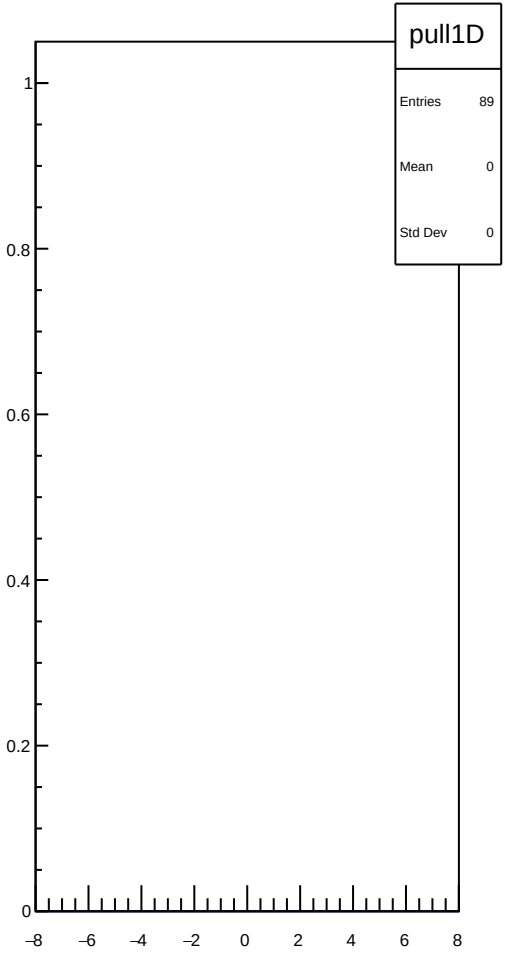

yield_bpm0l10Y_rms vs run
χ² / ndf 2.778e+04 / 88
p0 0.003587 ± 2.702e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

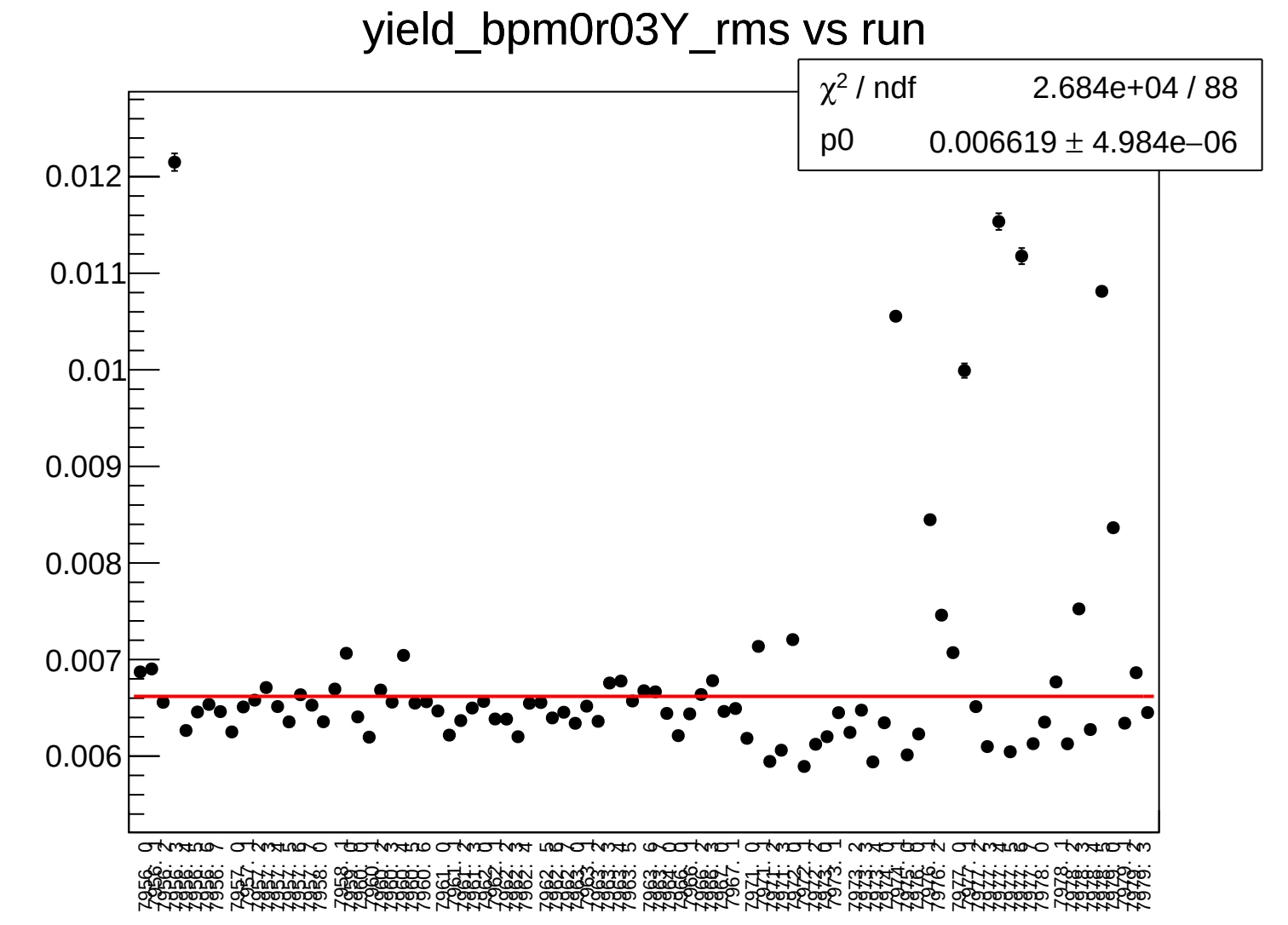

yield_bpm0r03X_mean vs run
χ² / ndf 3.798e+08 / 88
p0 −2.241 ± 8.476e−05
pull
Entries 89
Mean −695.1
Std Dev 0

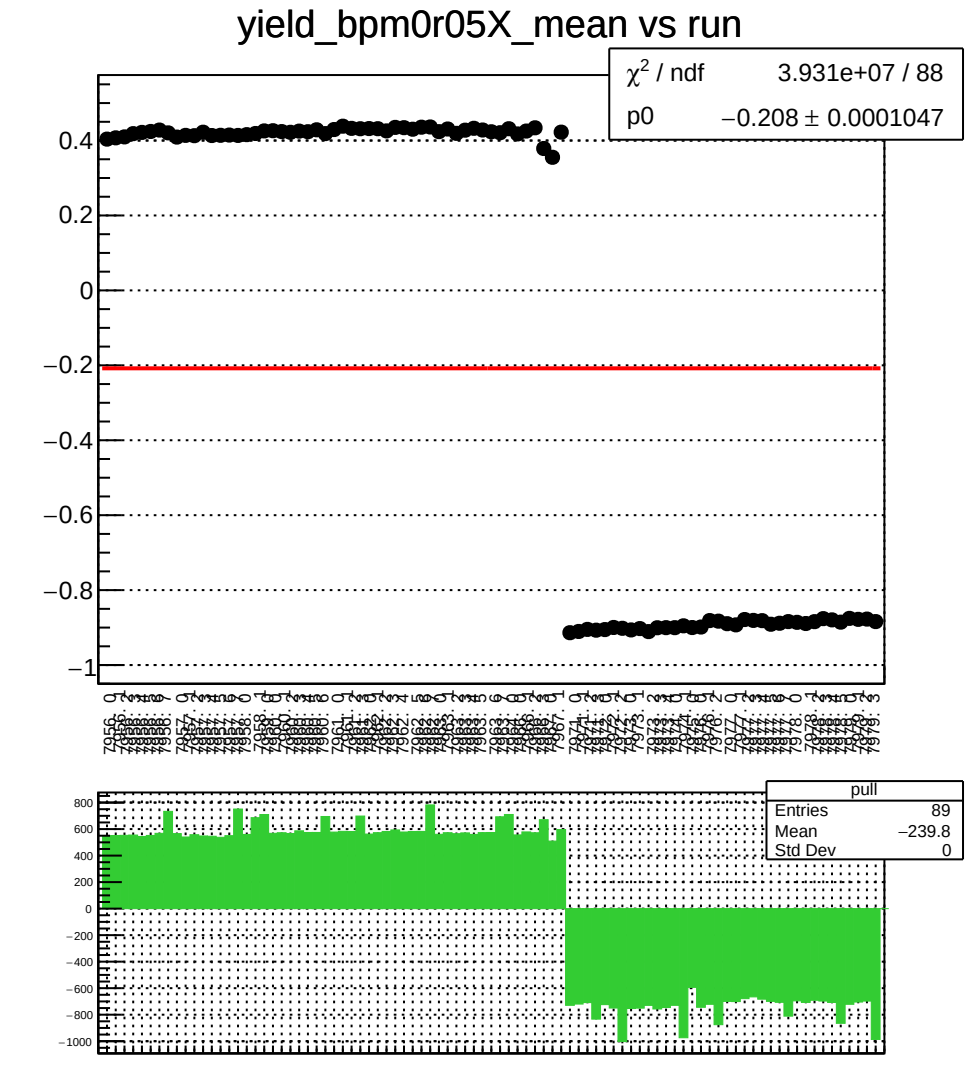

pull1D
Entries 89
Mean 0
Std Dev 0

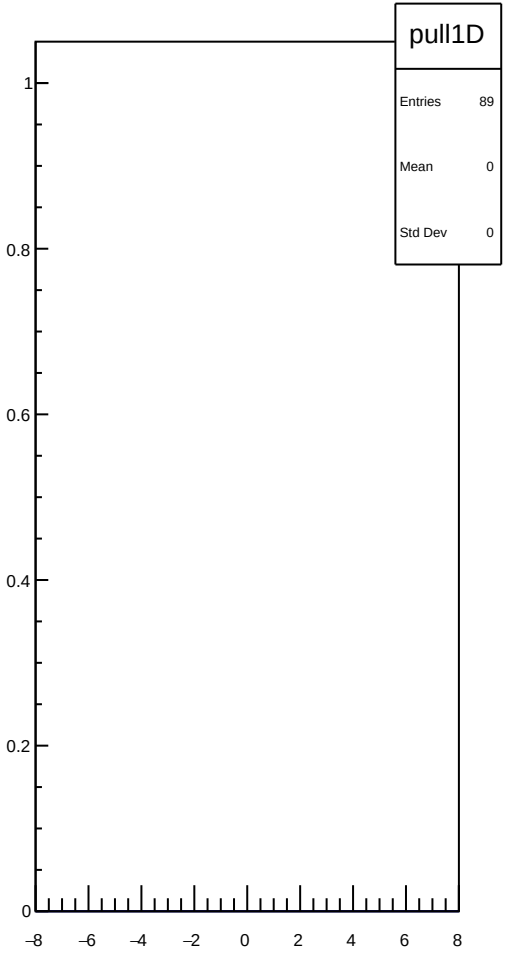

yield_bpm0r03X_rms vs run
χ² / ndf 6606 / 88
p0 0.08005 ± 5.993e−05
0.095
0.09
0.085
0.08
0.075
0.07

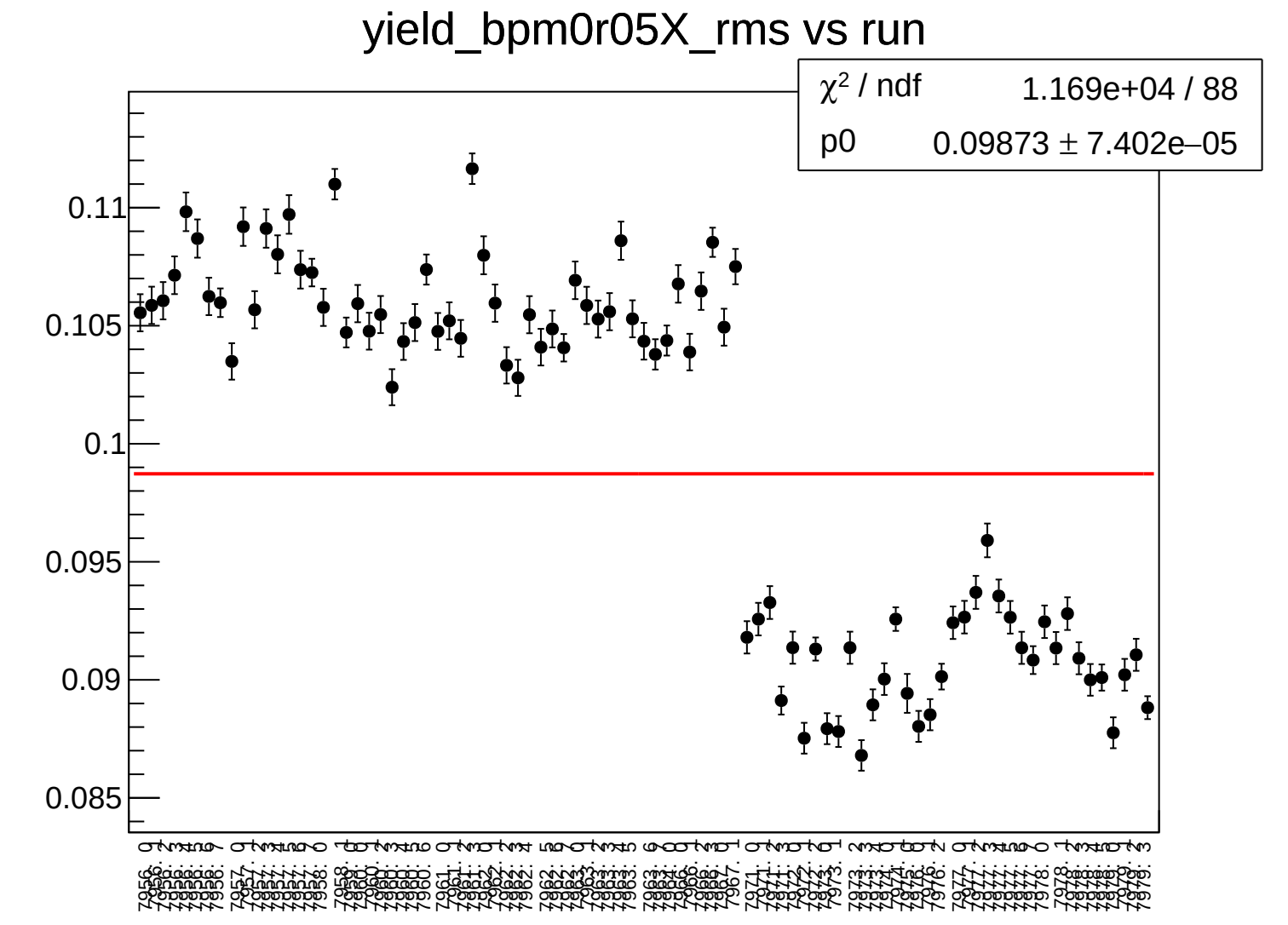

yield_bpm0r03Y_mean vs run
χ² / ndf 4.811e+07 / 88
p0 −0.3436 ± 7.048e−06
−0.28
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
−0.42
pull
Entries 89
Mean 1365
Std Dev 0
1000
500
0
−500
−1000

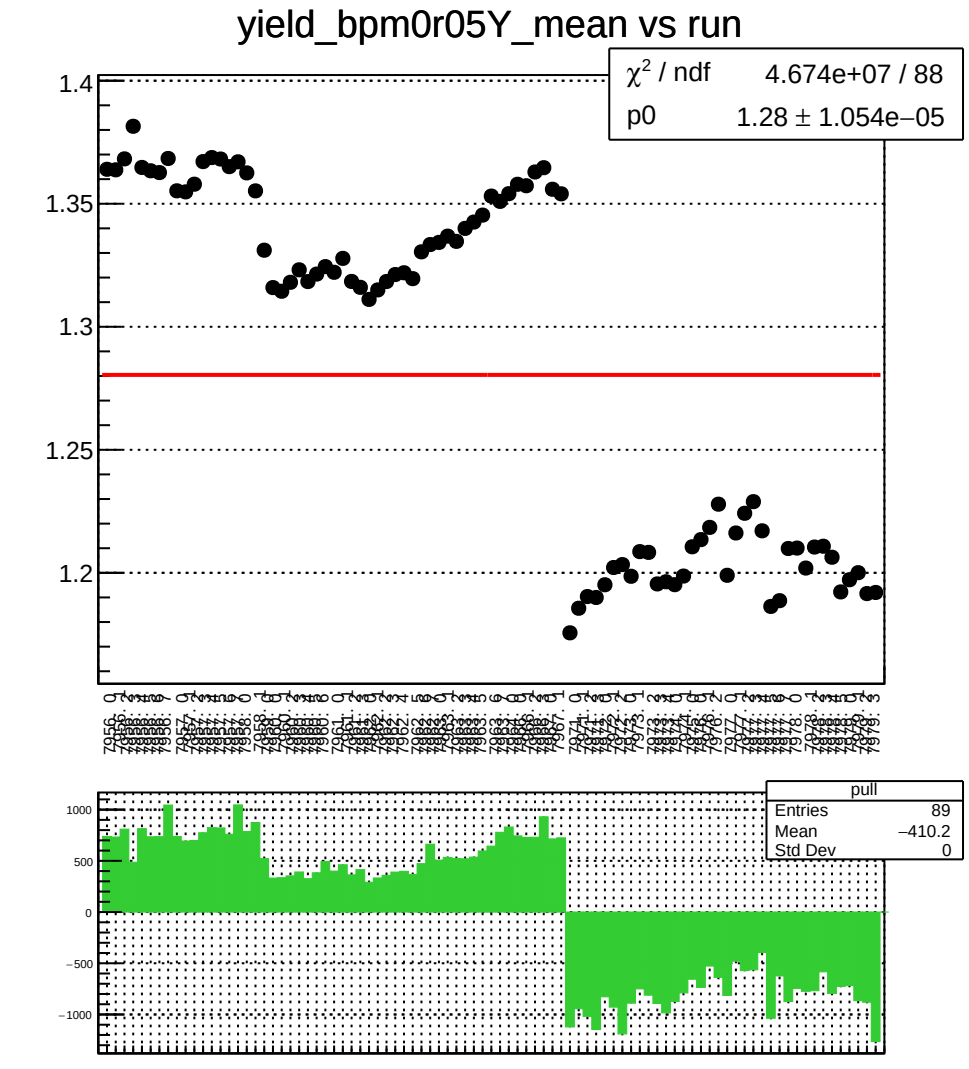

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

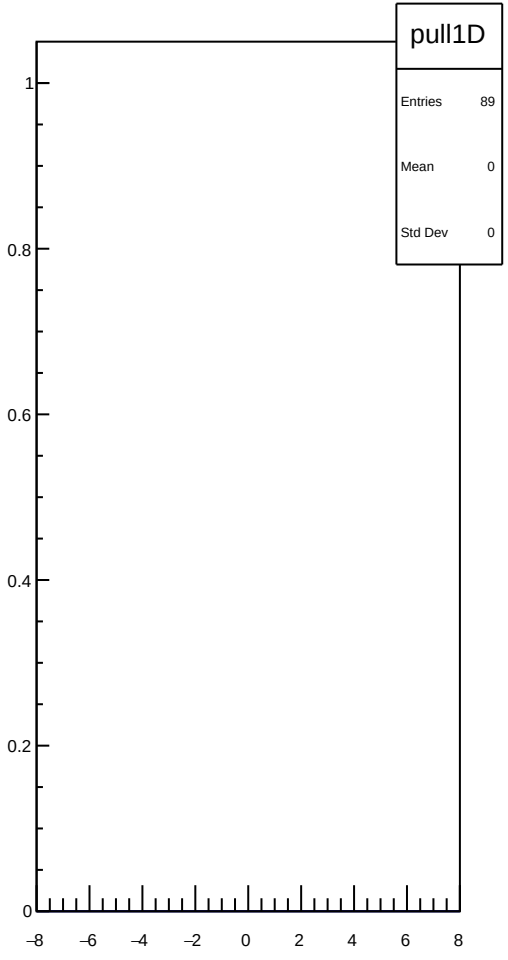

yield_bpm0r03Y_rms vs run
$\chi^2$ / ndf 2.684e+04 / 88
p0 0.006619 ± 4.984e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

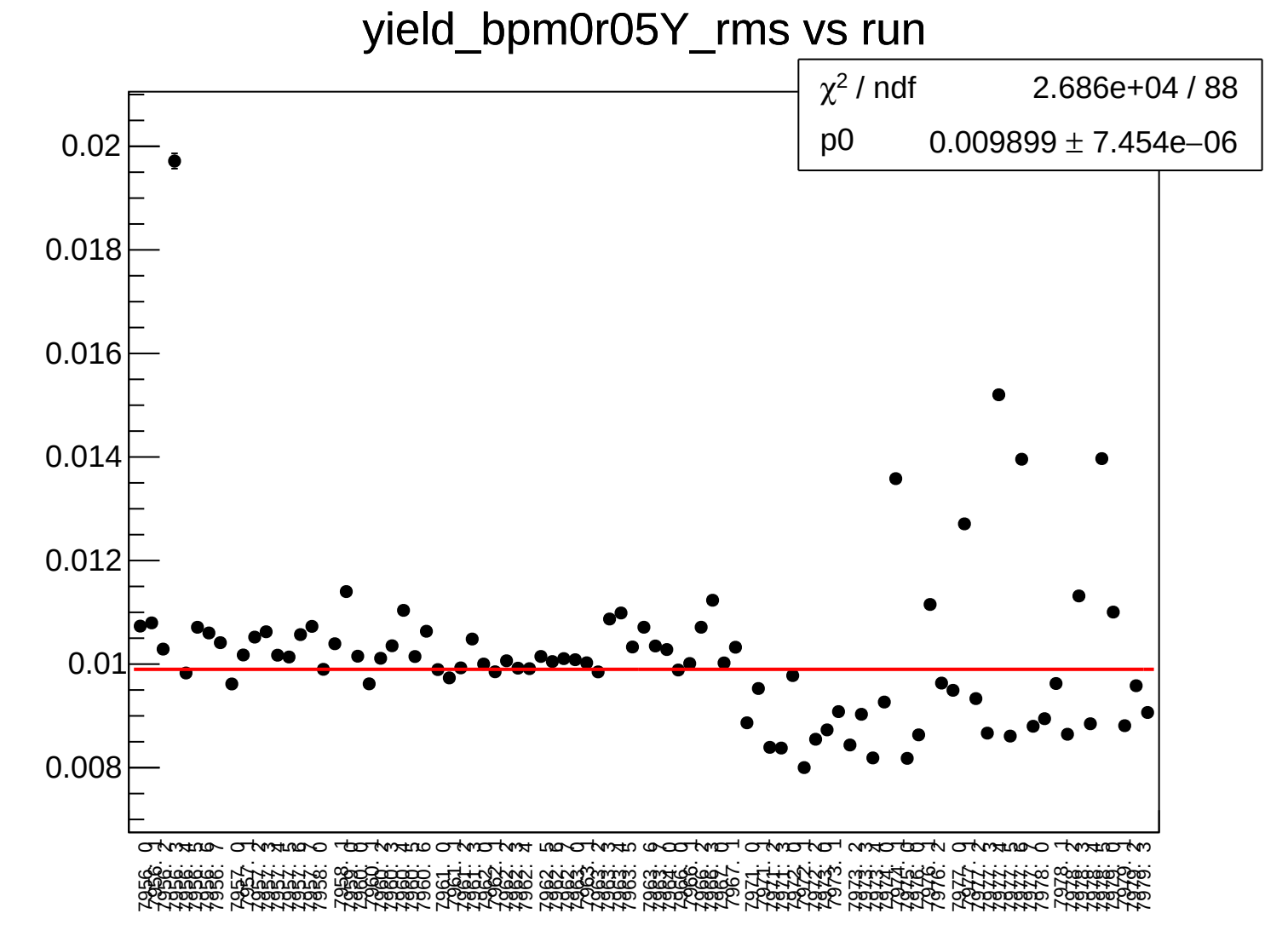

yield_bpm0r05X_mean vs run
χ² / ndf 3.931e+07 / 88
p0 −0.208 ± 0.0001047
pull
Entries 89
Mean −239.8
Std Dev 0

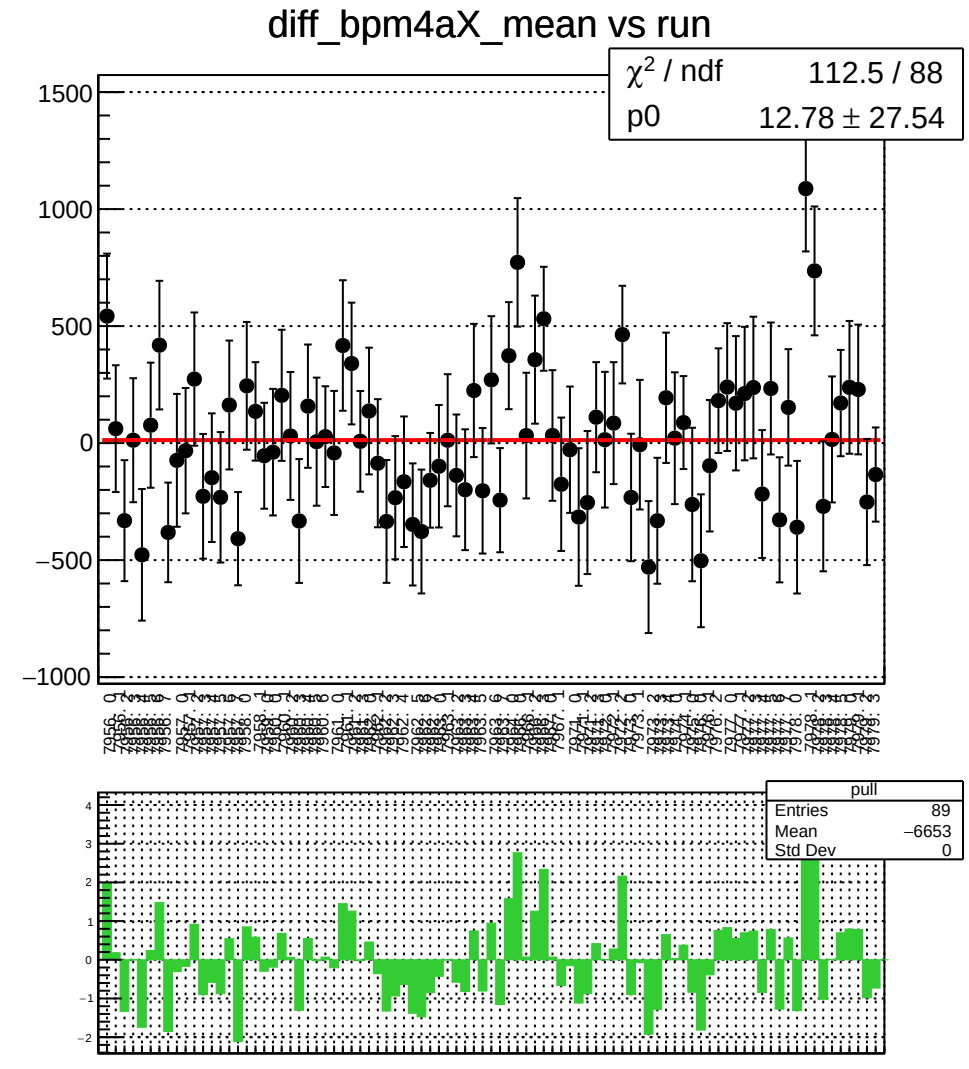

pull1D
Entries 89
Mean 0
Std Dev 0

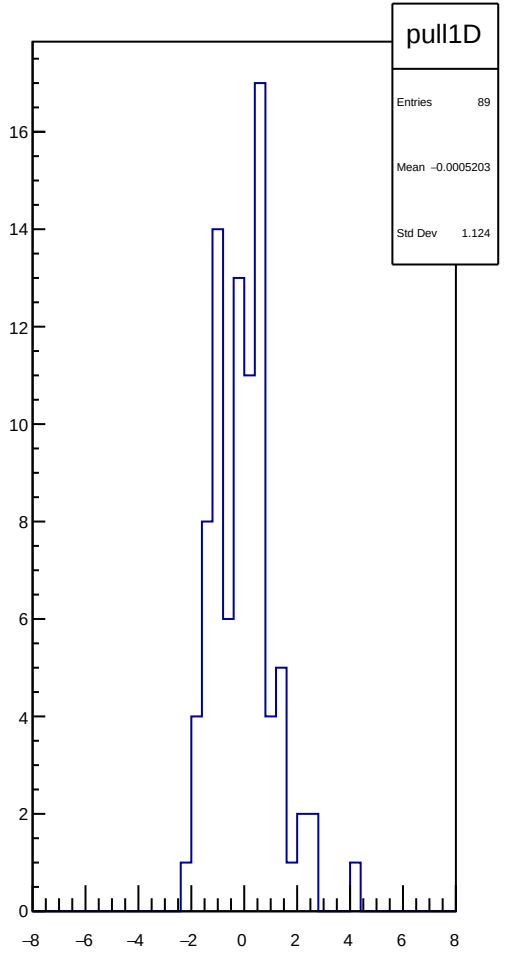

yield_bpm0r05X_rms vs run
χ² / ndf 1.169e+04 / 88
p0 0.09873 ± 7.402e–05
0.11
0.105
0.1
0.095
0.09
0.085

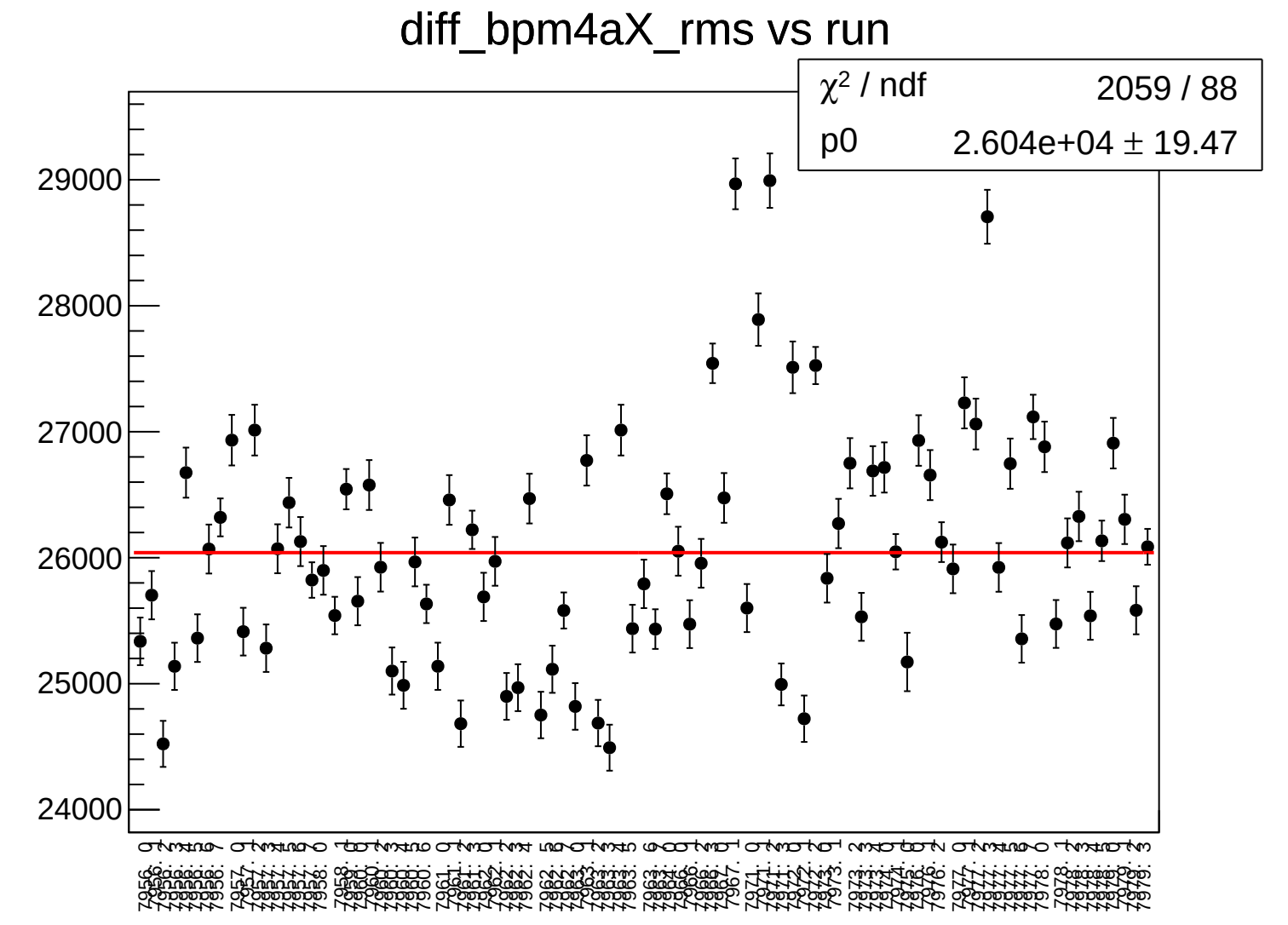

yield_bpm0r05Y_mean vs run
χ² / ndf 4.674e+07 / 88
p0 1.28 ± 1.054e−05
1.4
1.35
1.3
1.25
1.2
pull
Entries 89
Mean −410.2
Std Dev 0
1000
500
0
−500
−1000

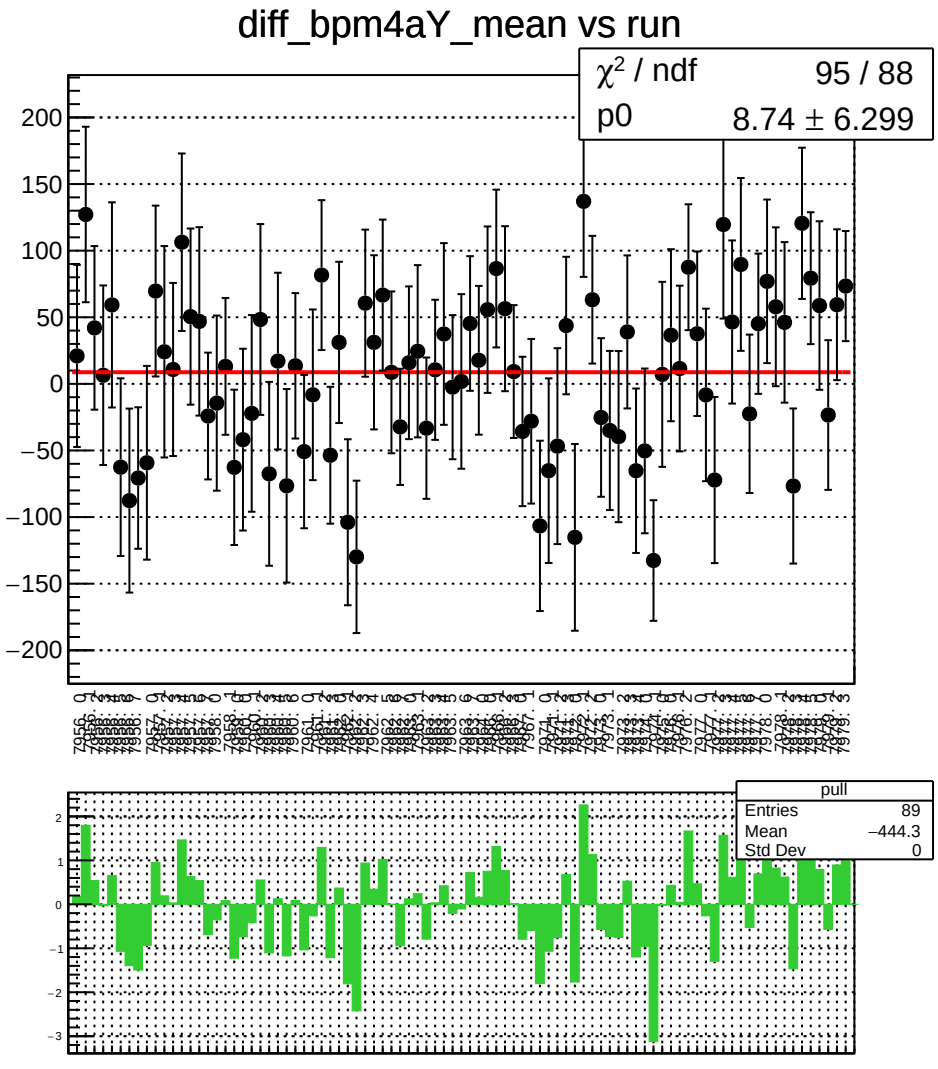

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

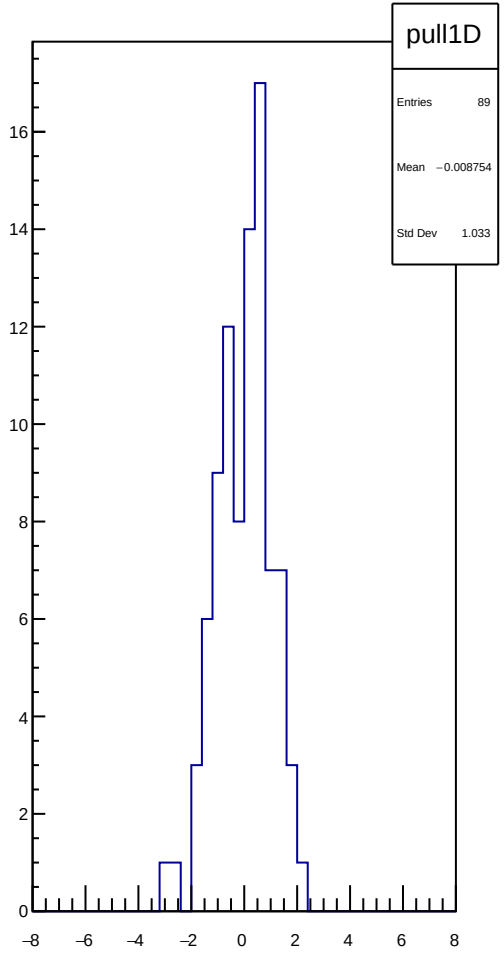

yield_bpm0r05Y_rms vs run
χ² / ndf 2.686e+04 / 88
p0 0.009899 ± 7.454e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

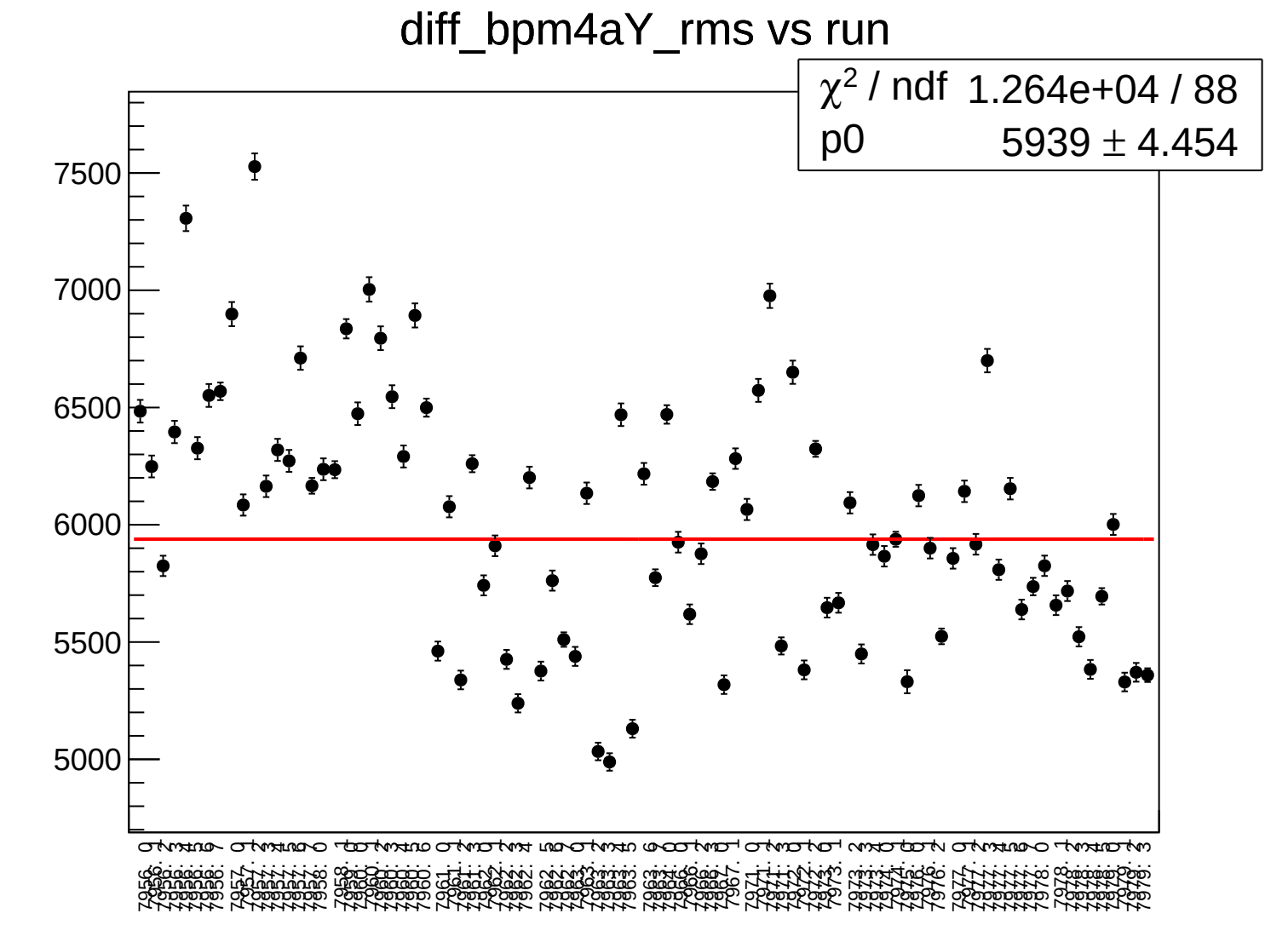

diff_bpm4aX_mean vs run
χ² / ndf 112.5 / 88
p0 12.78 ± 27.54
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean −6653
Std Dev 0
4
3
2
1
0
−1
−2

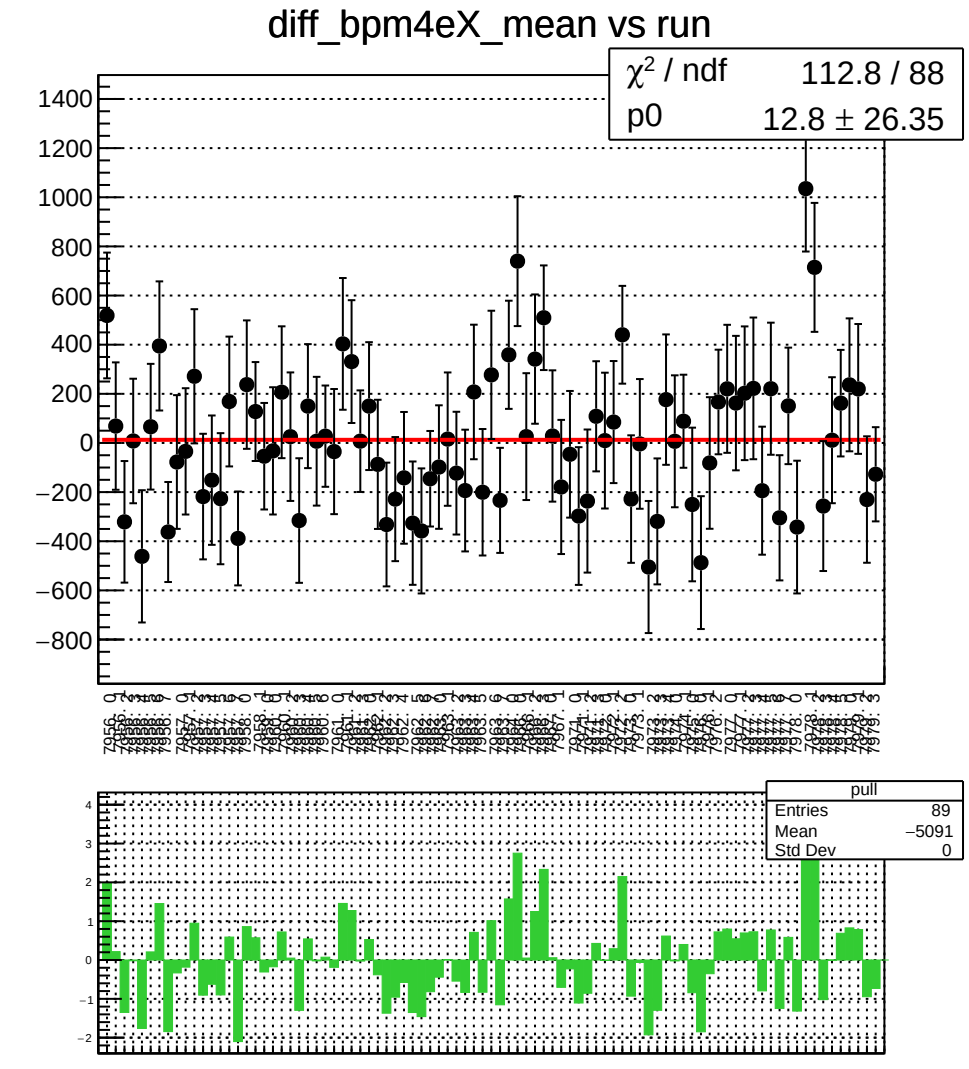

pull1D
Entries 89
Mean −0.0005203
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

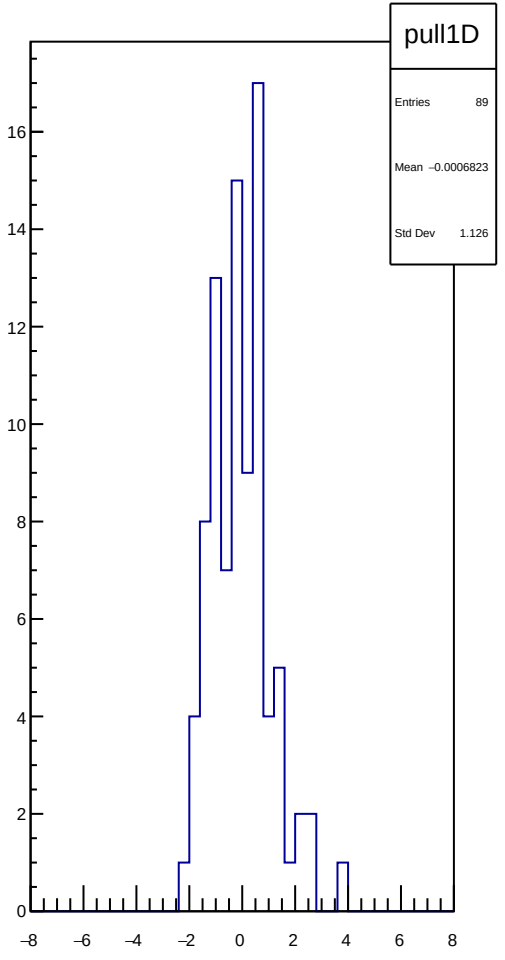

diff_bpm4aX_rms vs run
χ² / ndf 2059 / 88
p0 2.604e+04 ± 19.47
29000
28000
27000
26000
25000
24000

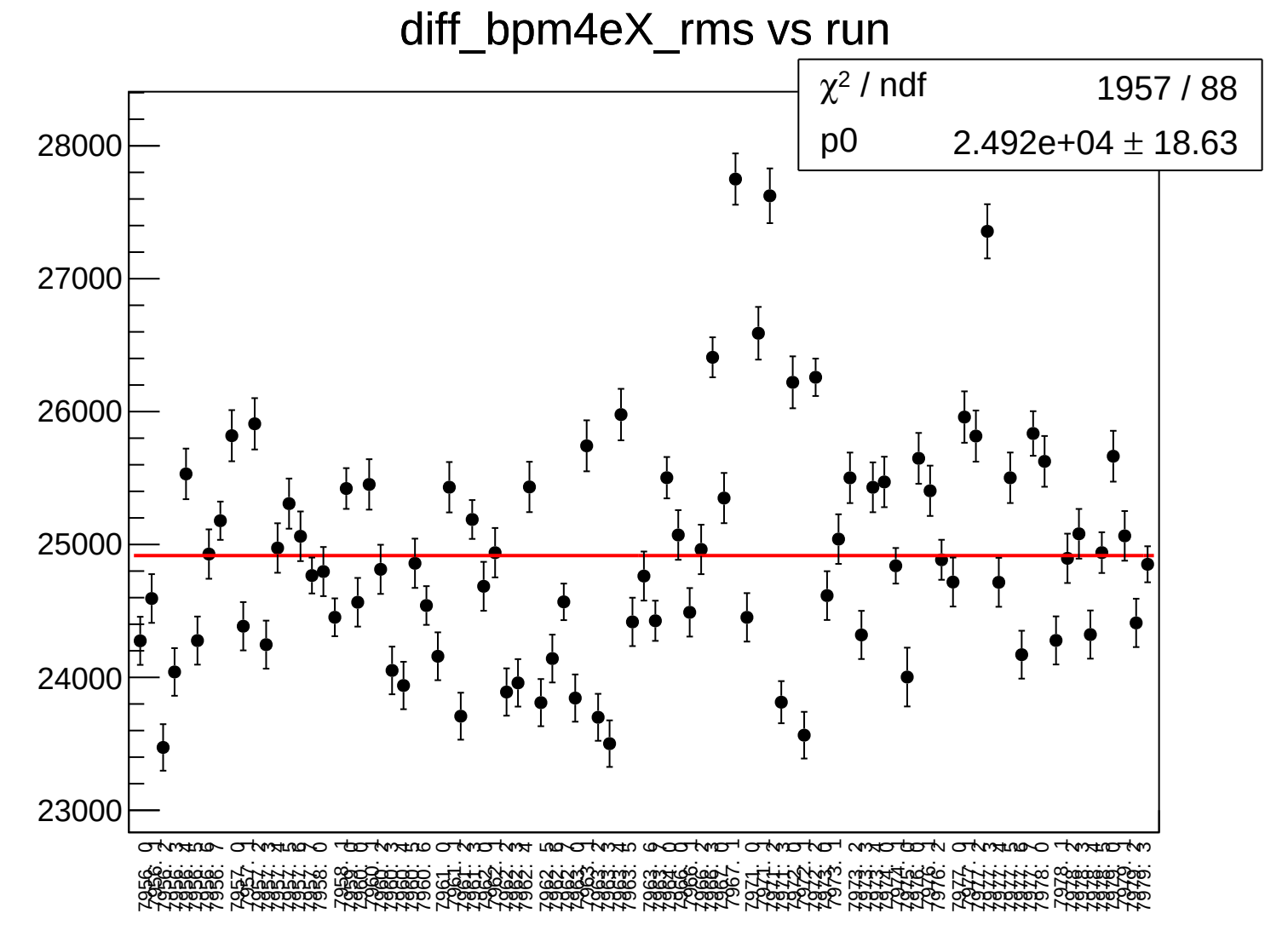

diff_bpm4aY_mean vs run
χ² / ndf 95 / 88
p0 8.74 ± 6.299
pull
Entries 89
Mean −444.3
Std Dev 0

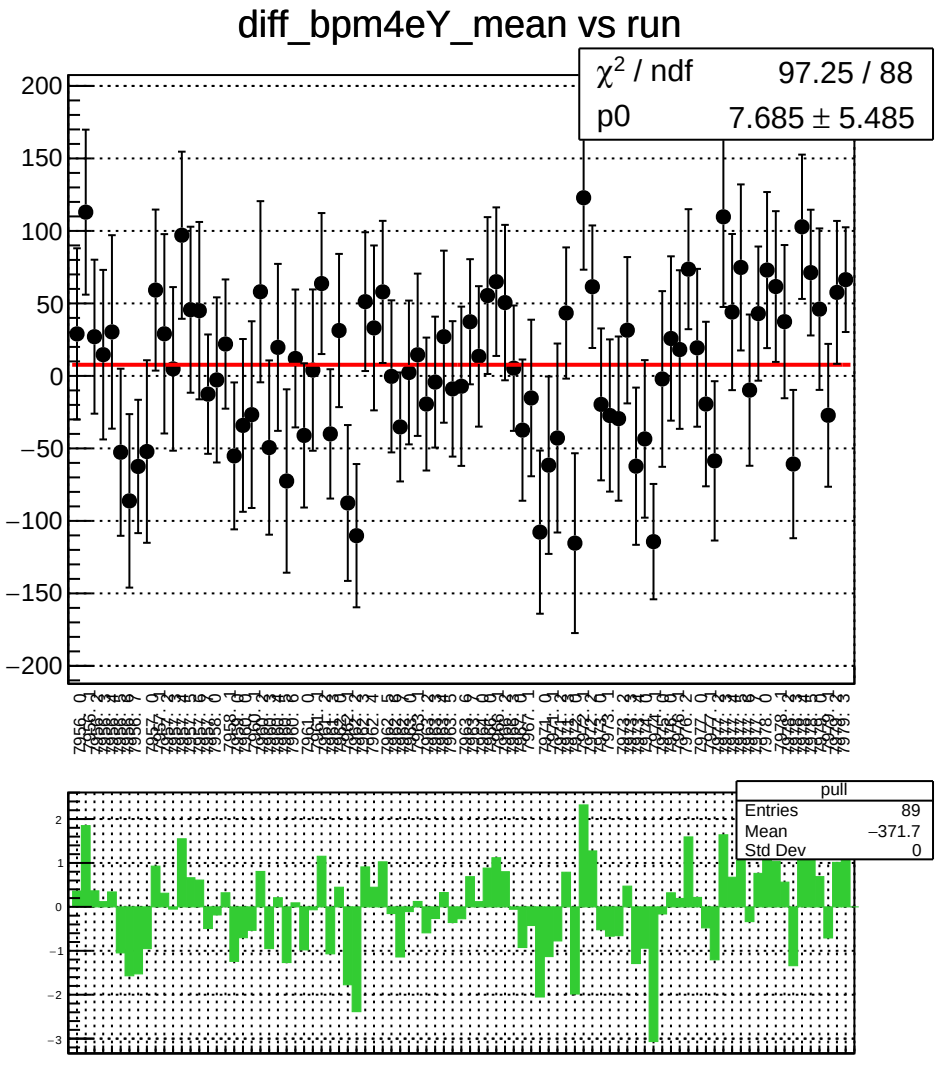

pull1D
Entries 89
Mean −0.008754
Std Dev 1.033

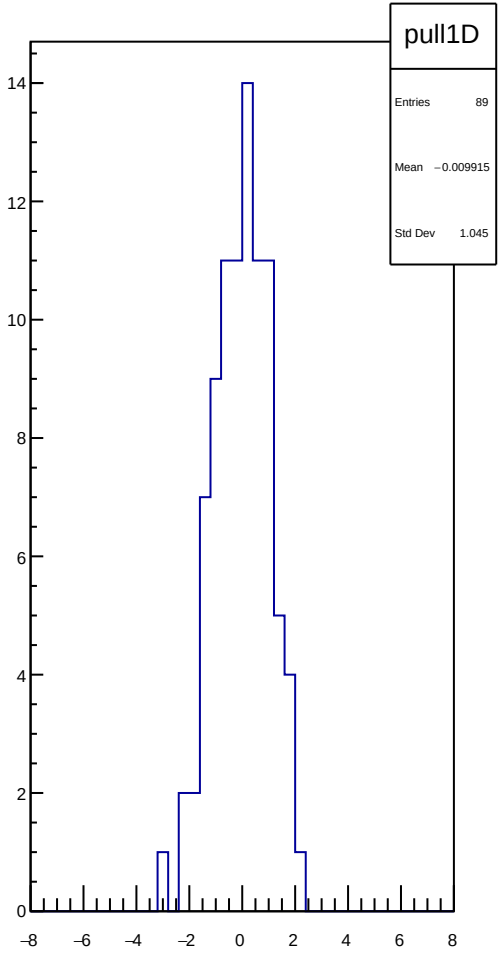

diff_bpm4aY_rms vs run
$\chi^2$ / ndf 1.264e+04 / 88
p0 5939 ± 4.454
7500
7000
6500
6000
5500
5000

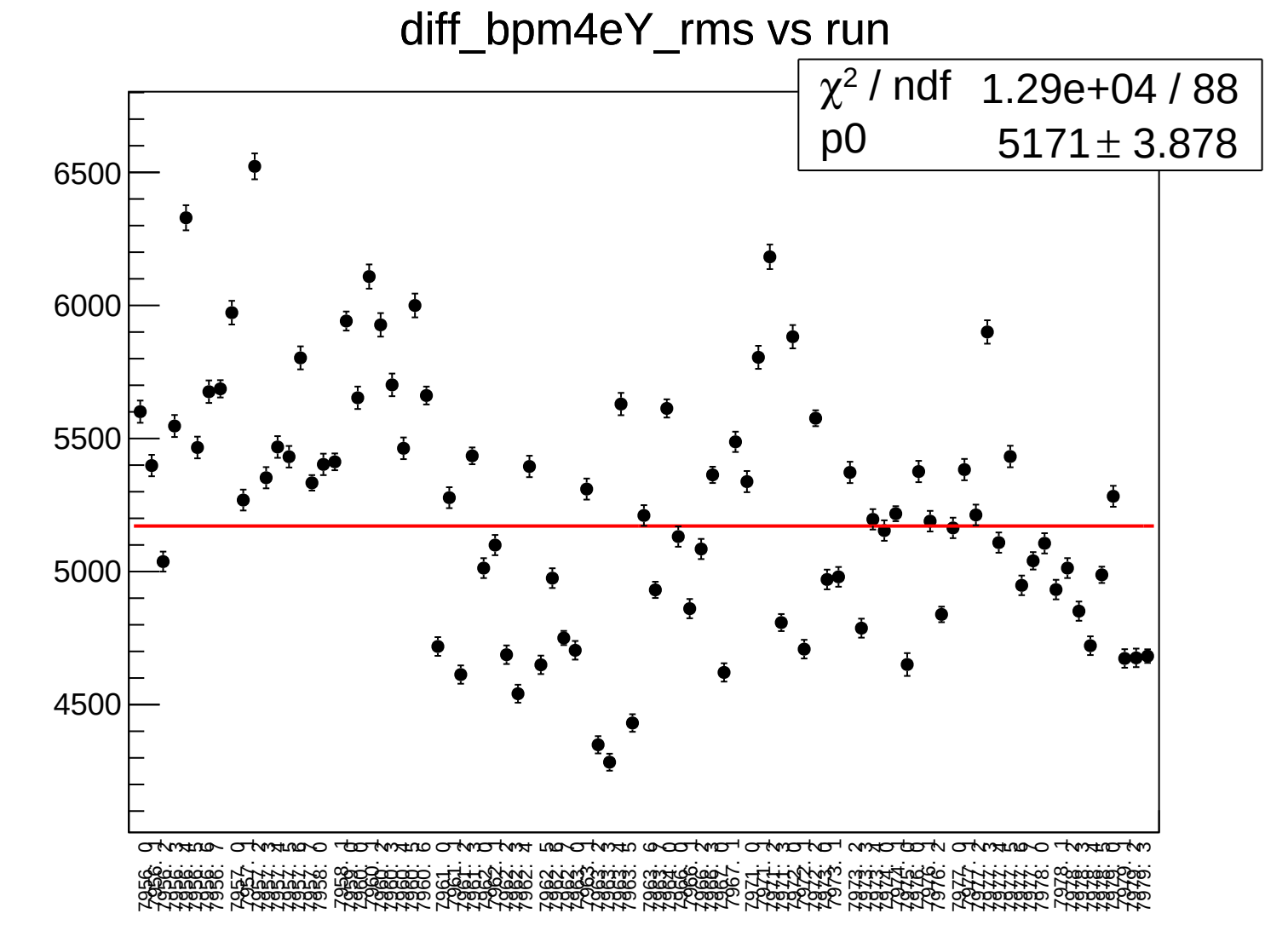

diff_bpm4eX_mean vs run
χ² / ndf 112.8 / 88
p0 12.8 ± 26.35
pull
Entries 89
Mean −5091
Std Dev 0

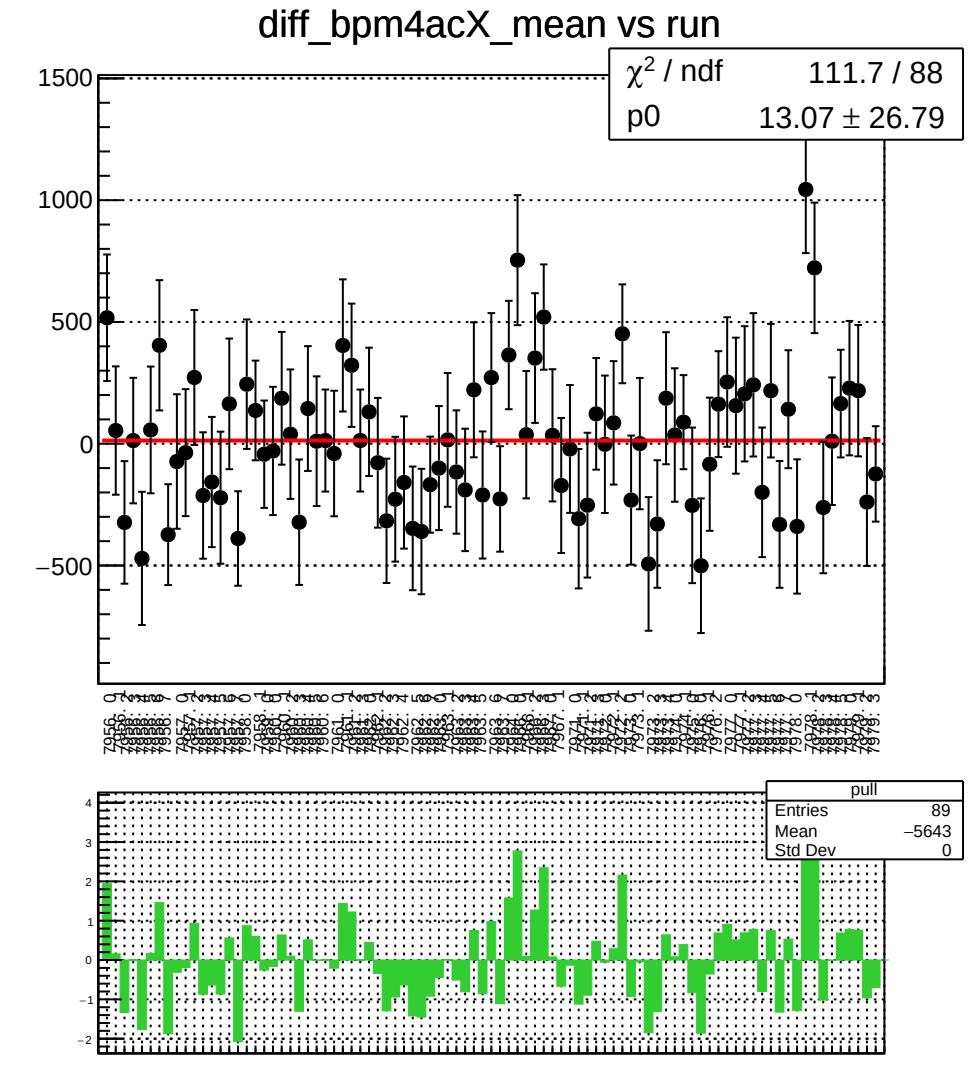

pull1D
Entries 89
Mean −0.0006823
Std Dev 1.126

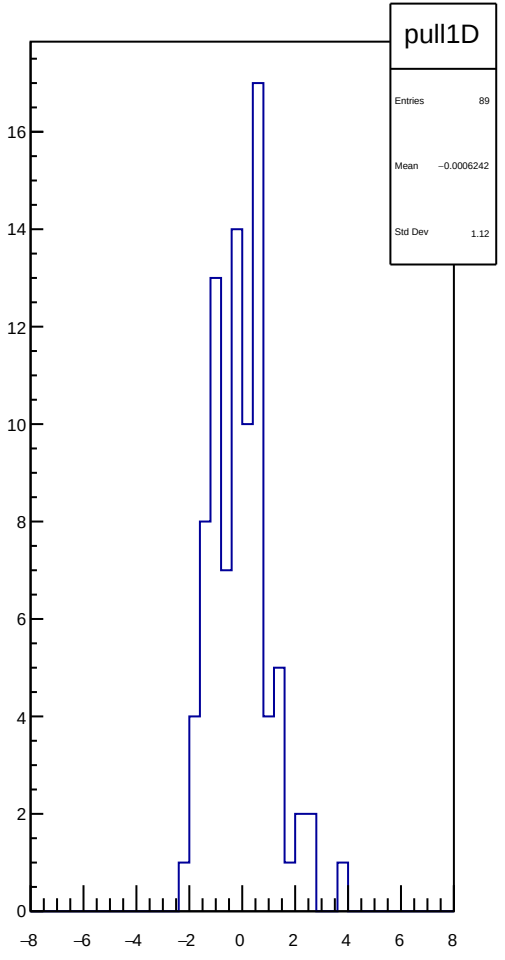

diff_bpm4eX_rms vs run
χ² / ndf 1957 / 88
p0 2.492e+04 ± 18.63
28000
27000
26000
25000
24000
23000

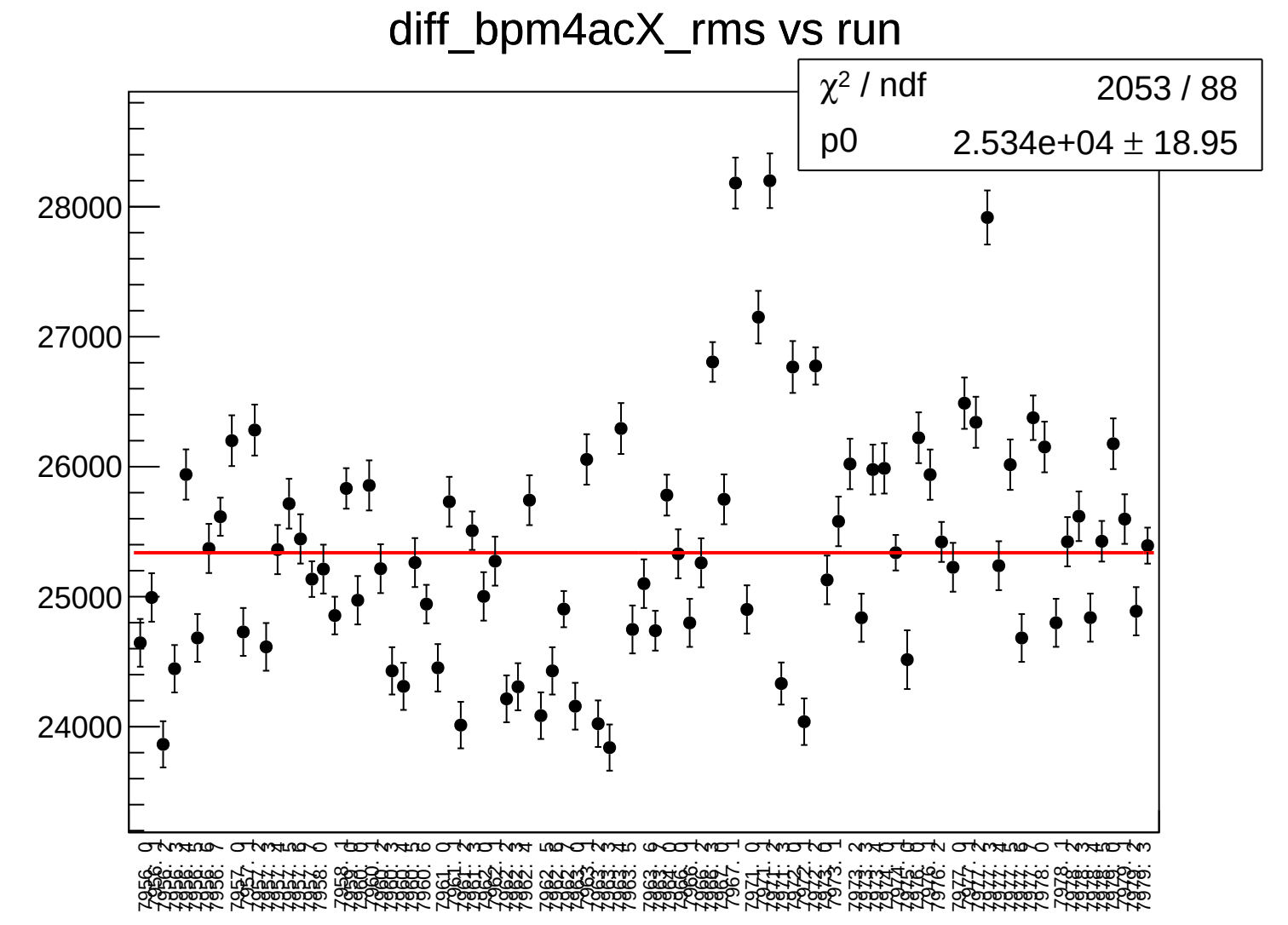

diff_bpm4eY_mean vs run
χ² / ndf 97.25 / 88
p0 7.685 ± 5.485
pull
Entries 89
Mean −371.7
Std Dev 0

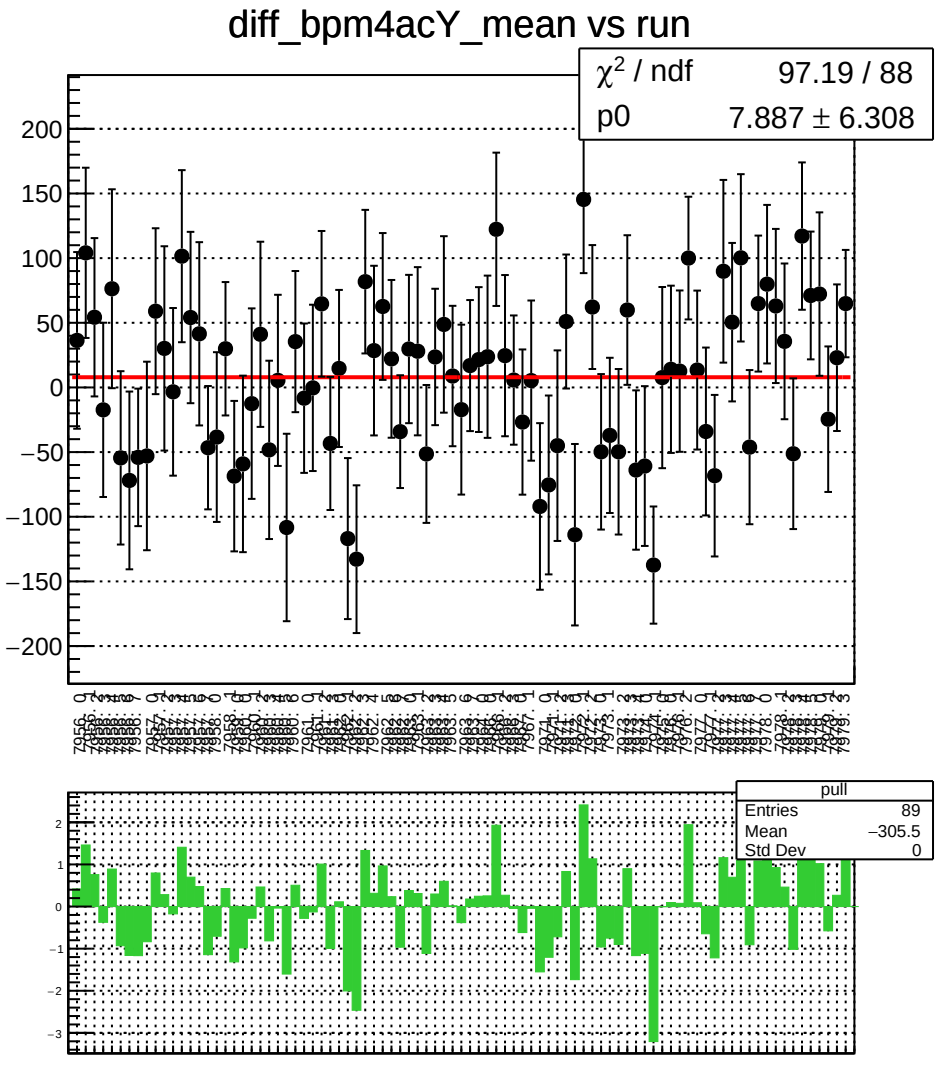

pull1D
Entries 89
Mean −0.009915
Std Dev 1.045

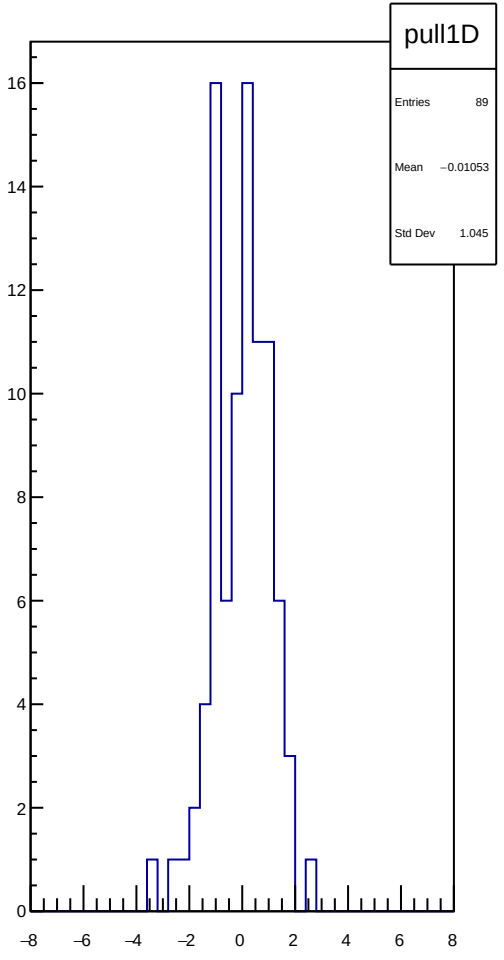

diff_bpm4eY_rms vs run
χ² / ndf 1.29e+04 / 88
p0 5171 ± 3.878
6500
6000
5500
5000
4500

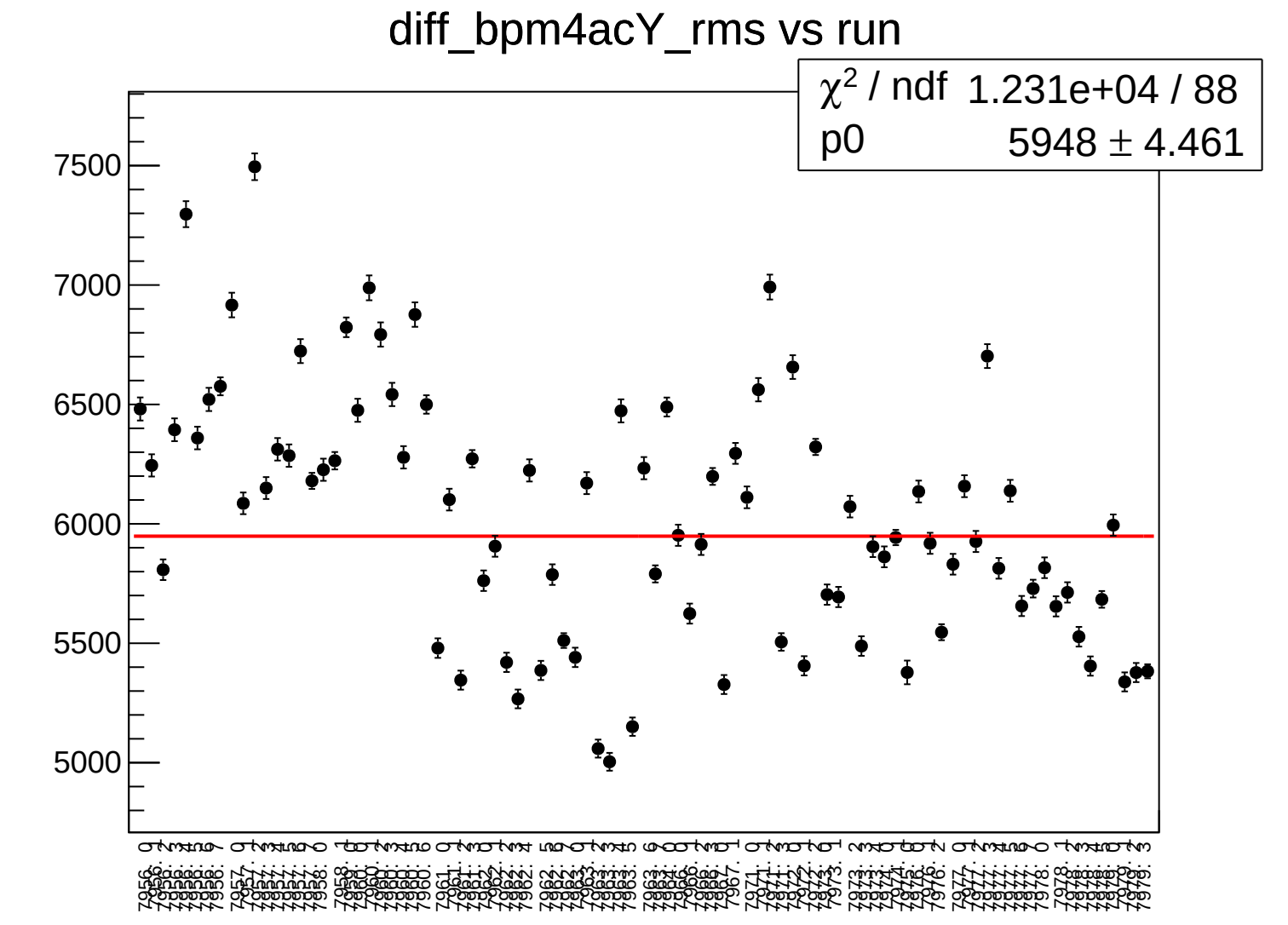

diff_bpm4acX_mean vs run
χ² / ndf 111.7 / 88
p0 13.07 ± 26.79
1500
1000
500
0
−500
pull
Entries 89
Mean −5643
Std Dev 0
4
3
2
1
0
−1
−2

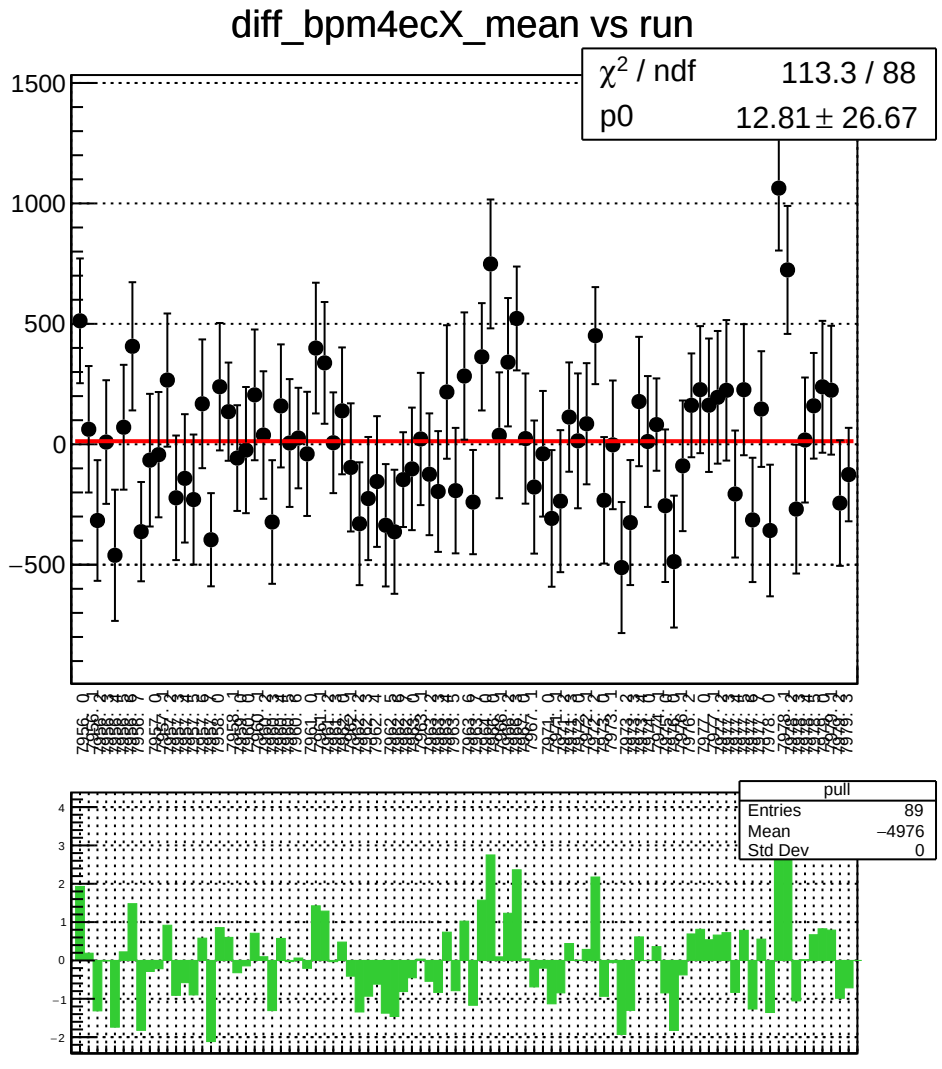

pull1D
Entries 89
Mean −0.0006242
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

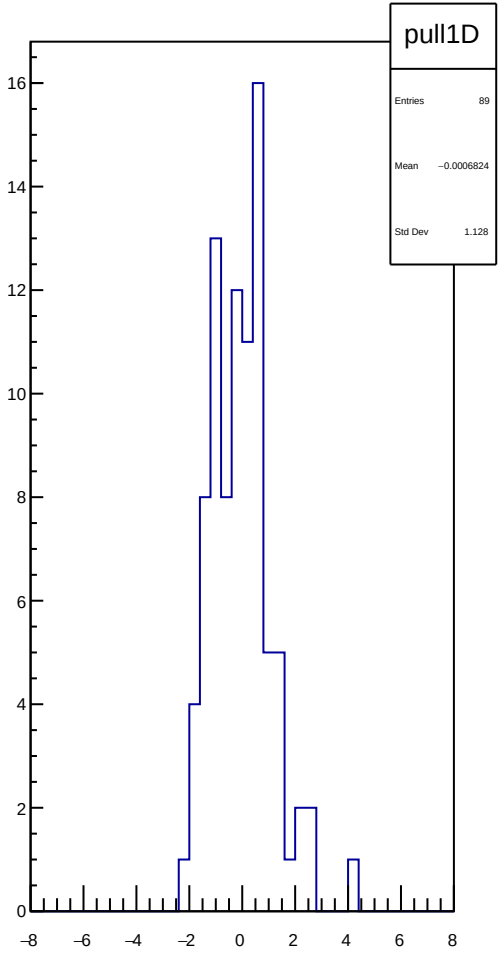

diff_bpm4acX_rms vs run
χ² / ndf 2053 / 88
p0 2.534e+04 ± 18.95
28000
27000
26000
25000
24000

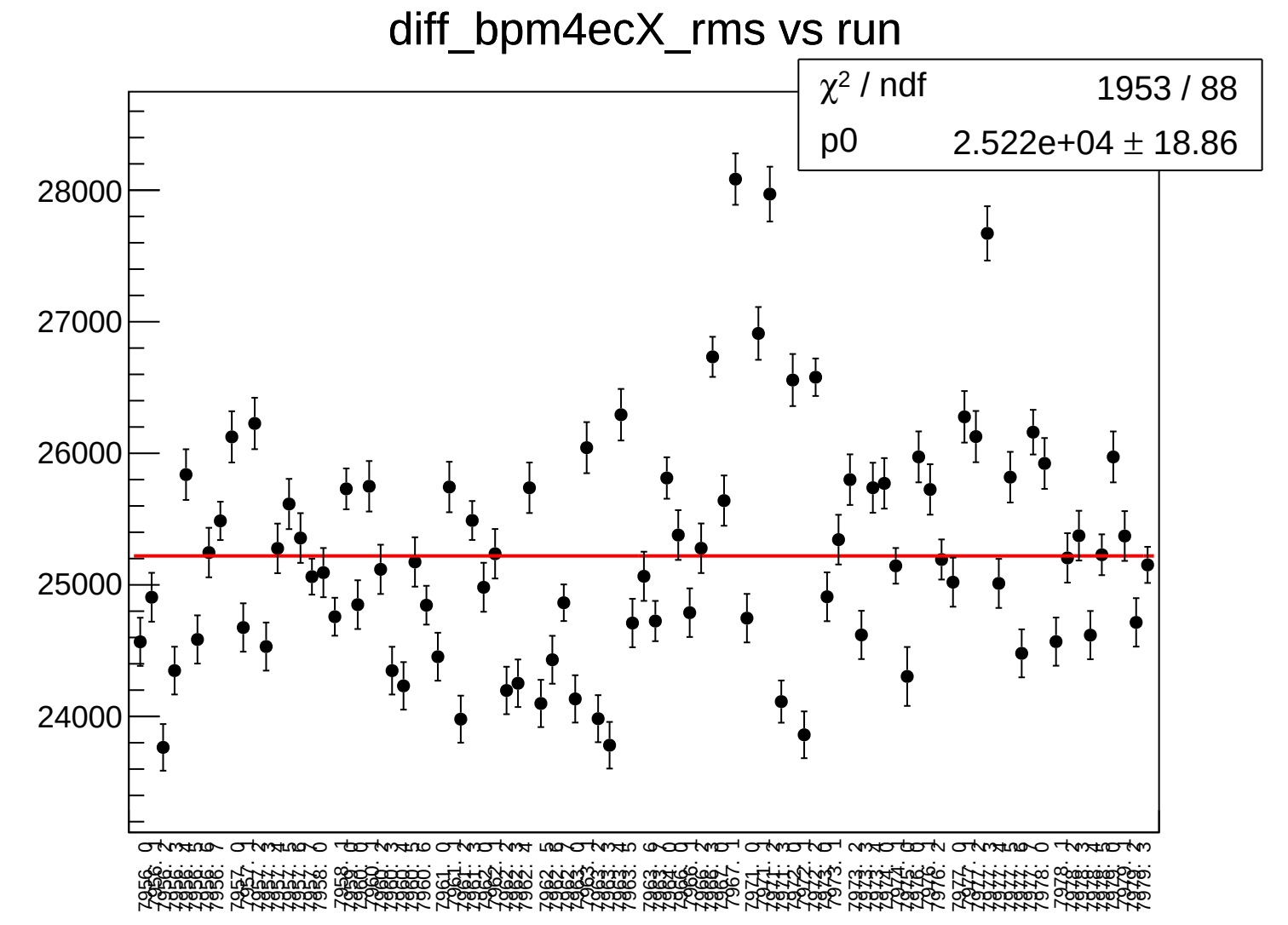

diff_bpm4acY_mean vs run
$\chi^2$ / ndf 97.19 / 88
p0 7.887 ± 6.308
pull
Entries 89
Mean −305.5
Std Dev 0

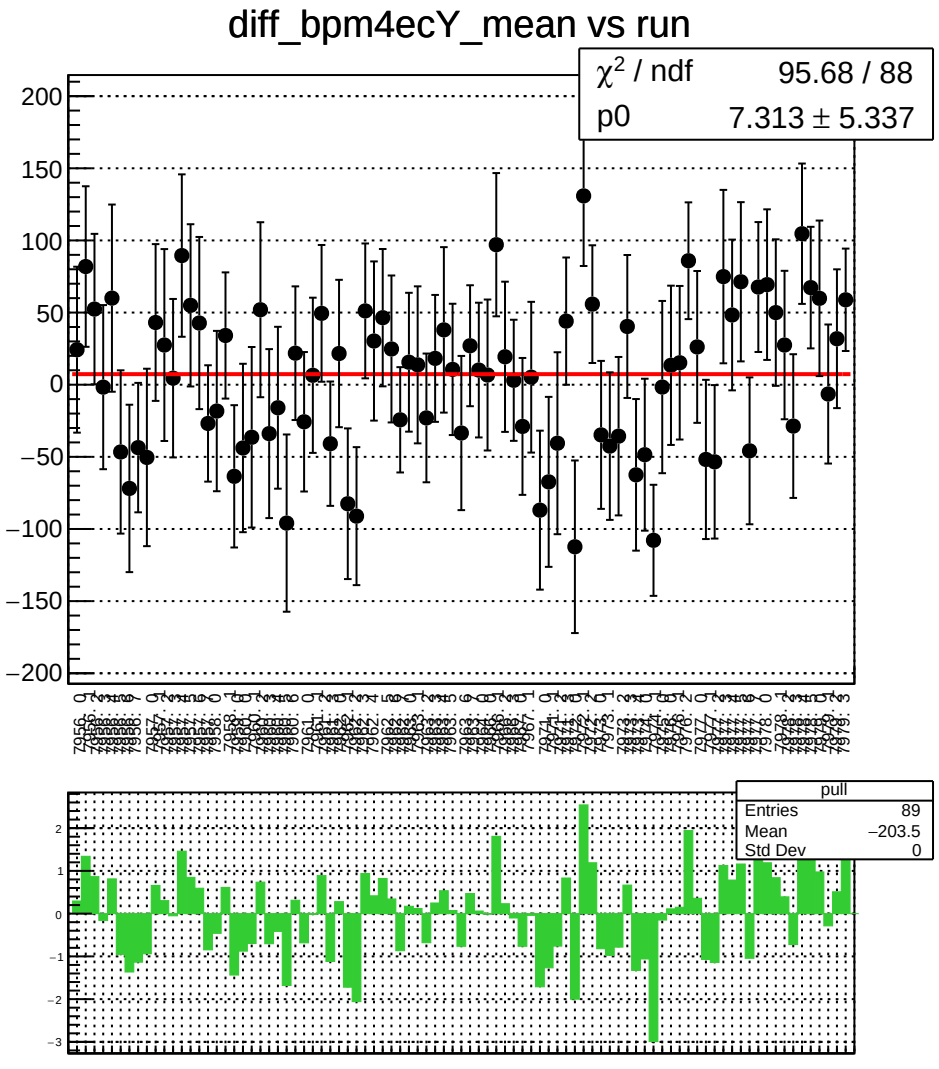

pull1D
Entries 89
Mean −0.01053
Std Dev 1.045

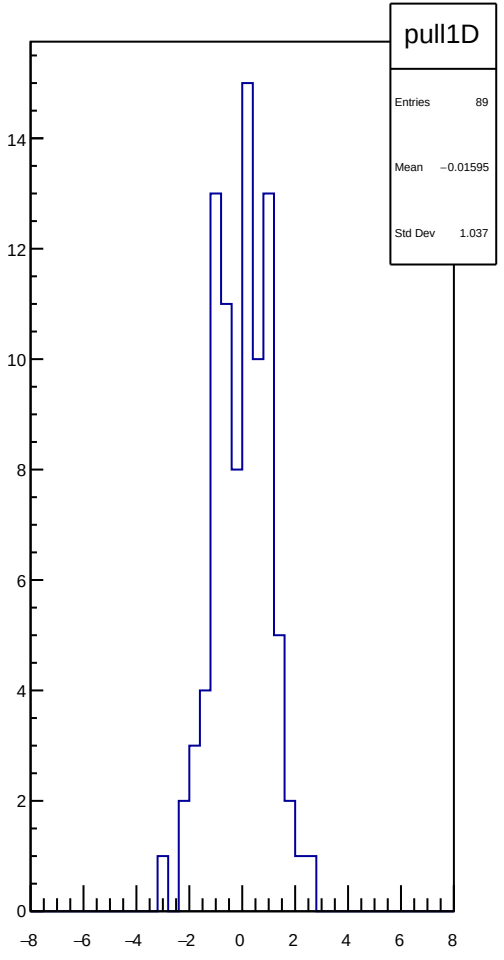

diff_bpm4acY_rms vs run
χ² / ndf 1.231e+04 / 88
p0 5948 ± 4.461
7500
7000
6500
6000
5500
5000

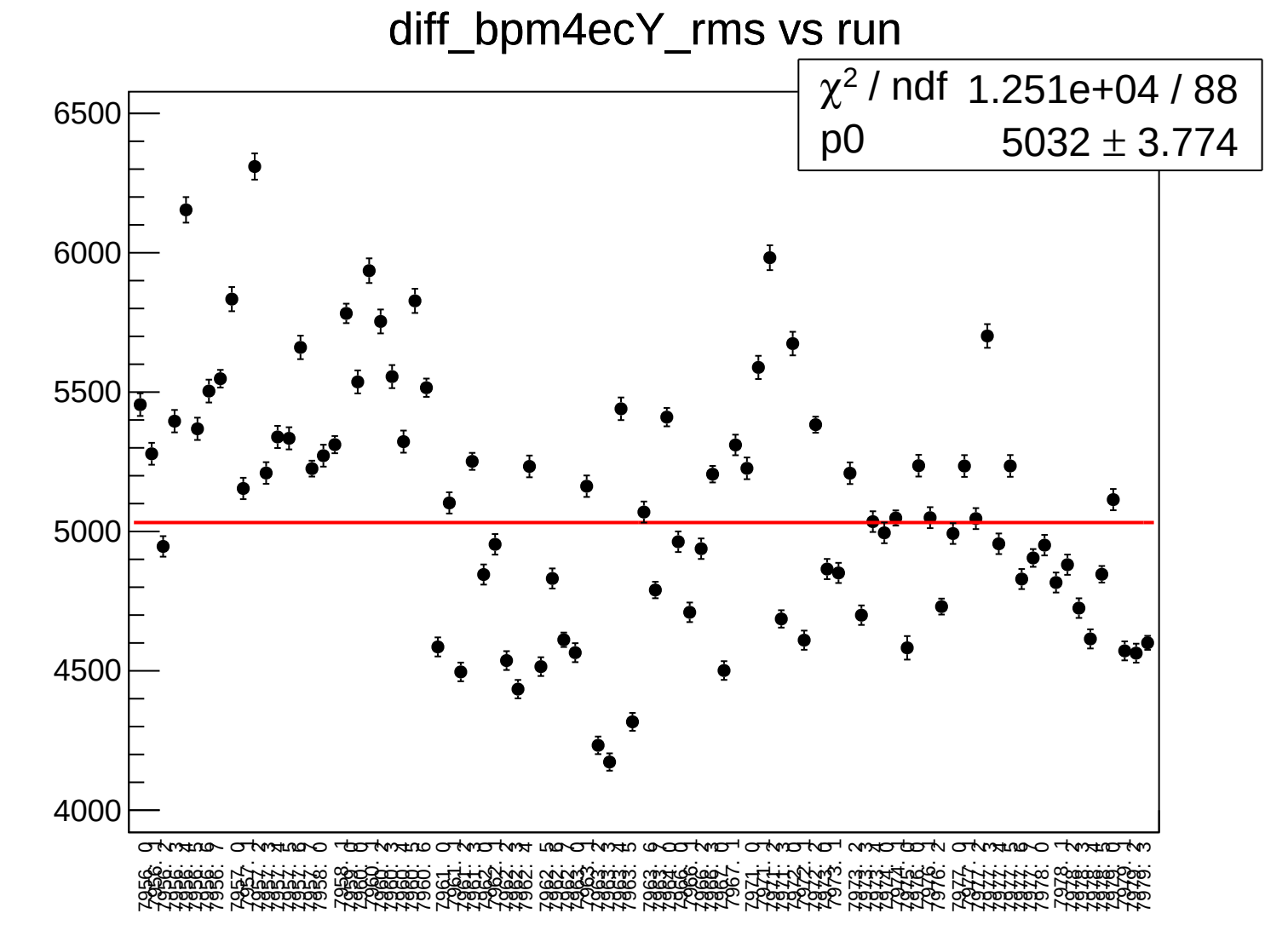

diff_bpm4ecX_mean vs run
$\chi^2$ / ndf 113.3 / 88
p0 12.81 ± 26.67
1500
1000
500
0
−500
pull
Entries 89
Mean −4976
Std Dev 0
4
3
2
1
0
−1
−2

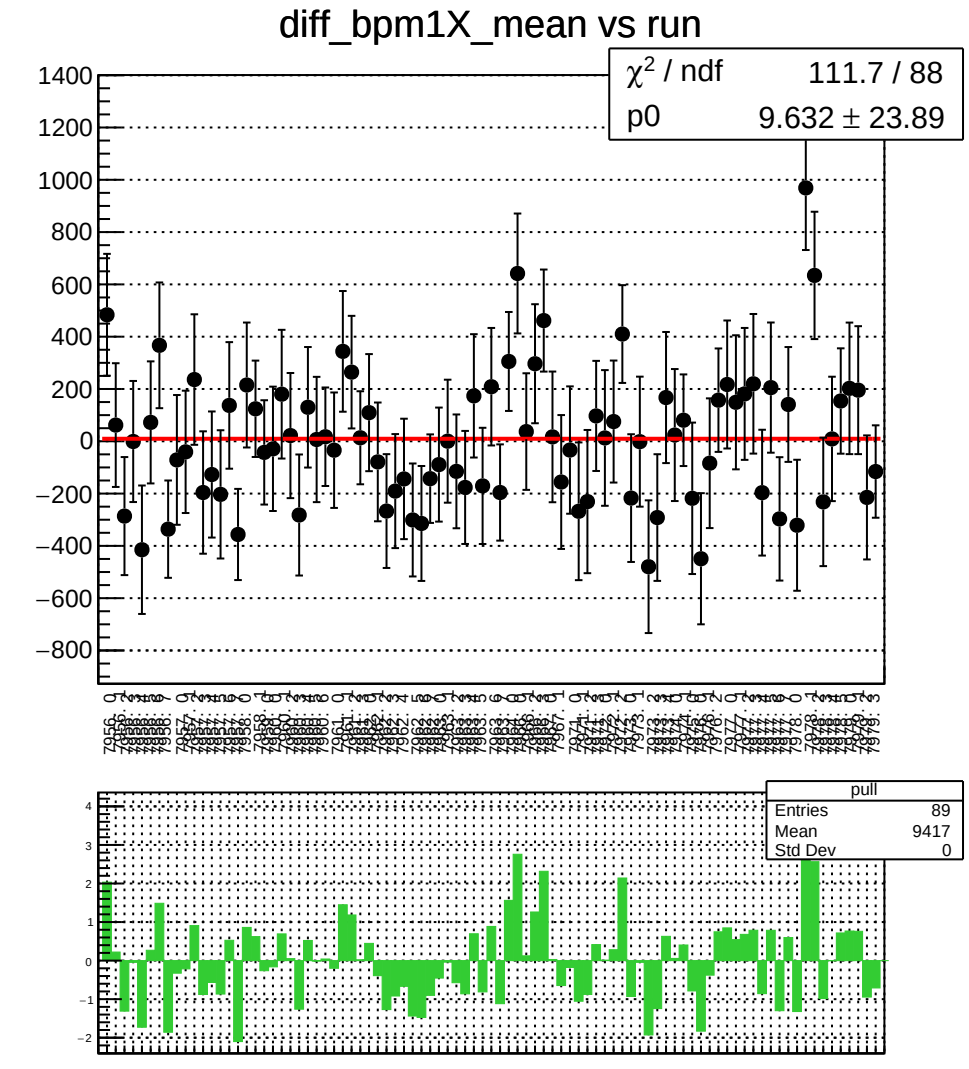

pull1D
Entries 89
Mean −0.0006824
Std Dev 1.128
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

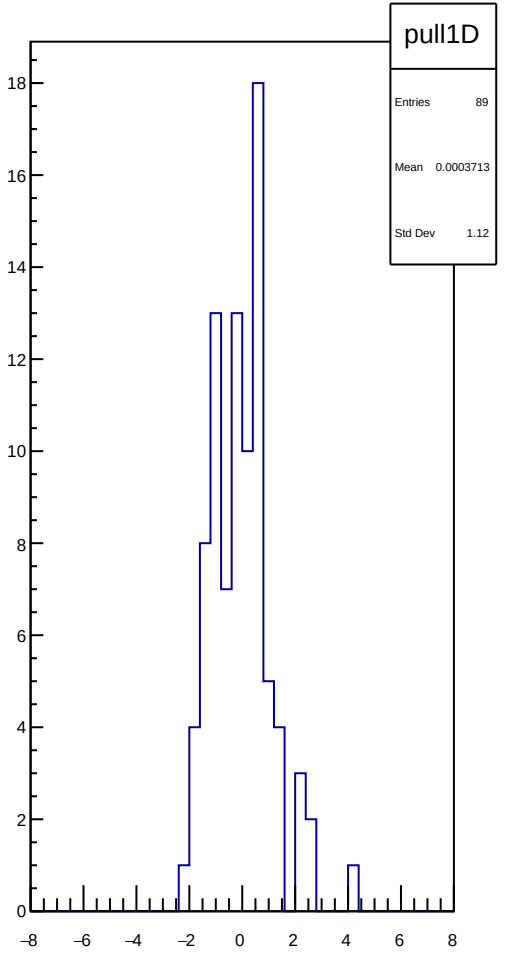

diff_bpm4ecX_rms vs run
χ² / ndf 1953 / 88
p0 2.522e+04 ± 18.86
28000
27000
26000
25000
24000

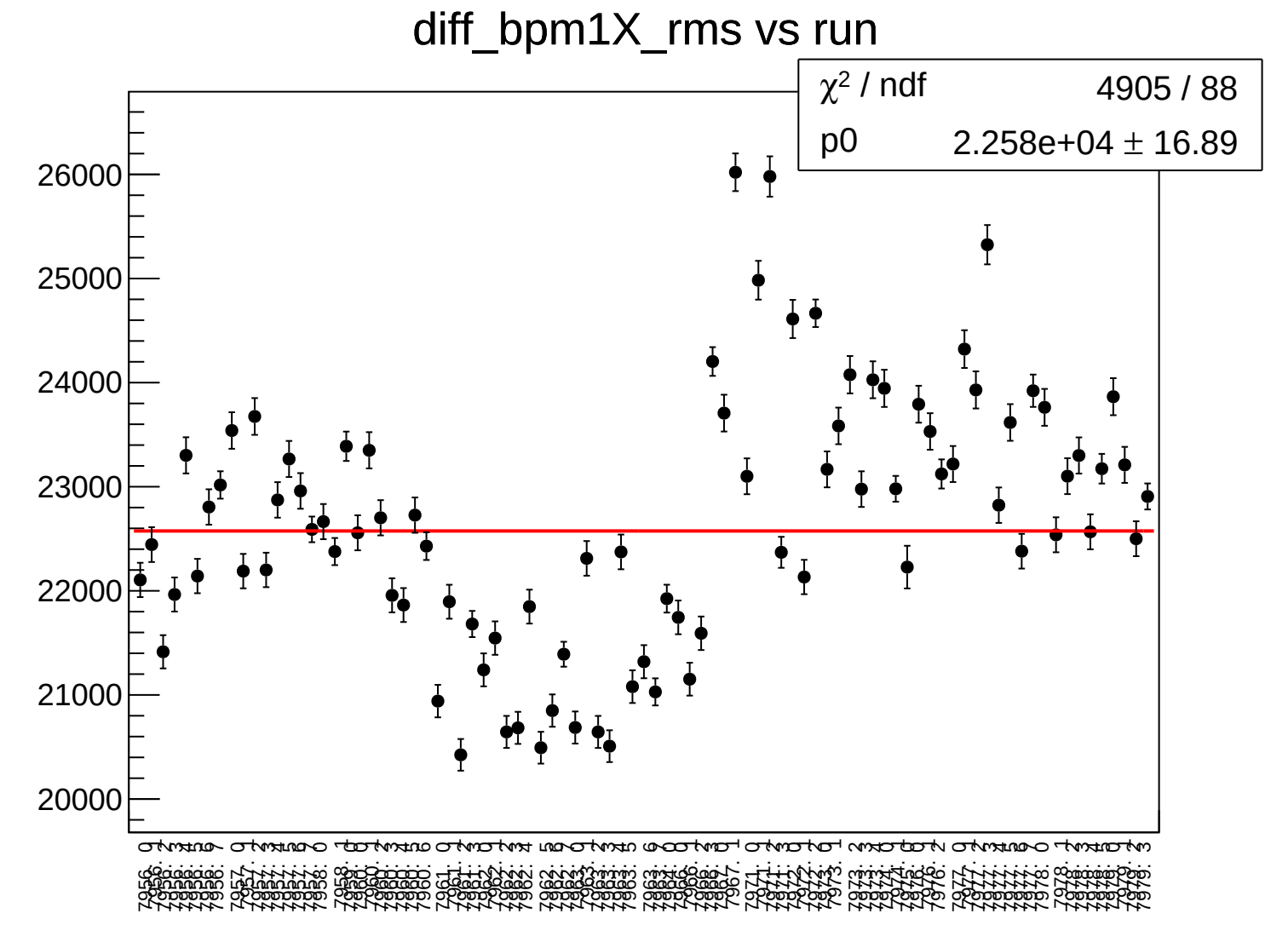

diff_bpm4ecY_mean vs run
χ² / ndf 95.68 / 88
p0 7.313 ± 5.337
pull
Entries 89
Mean −203.5
Std Dev 0

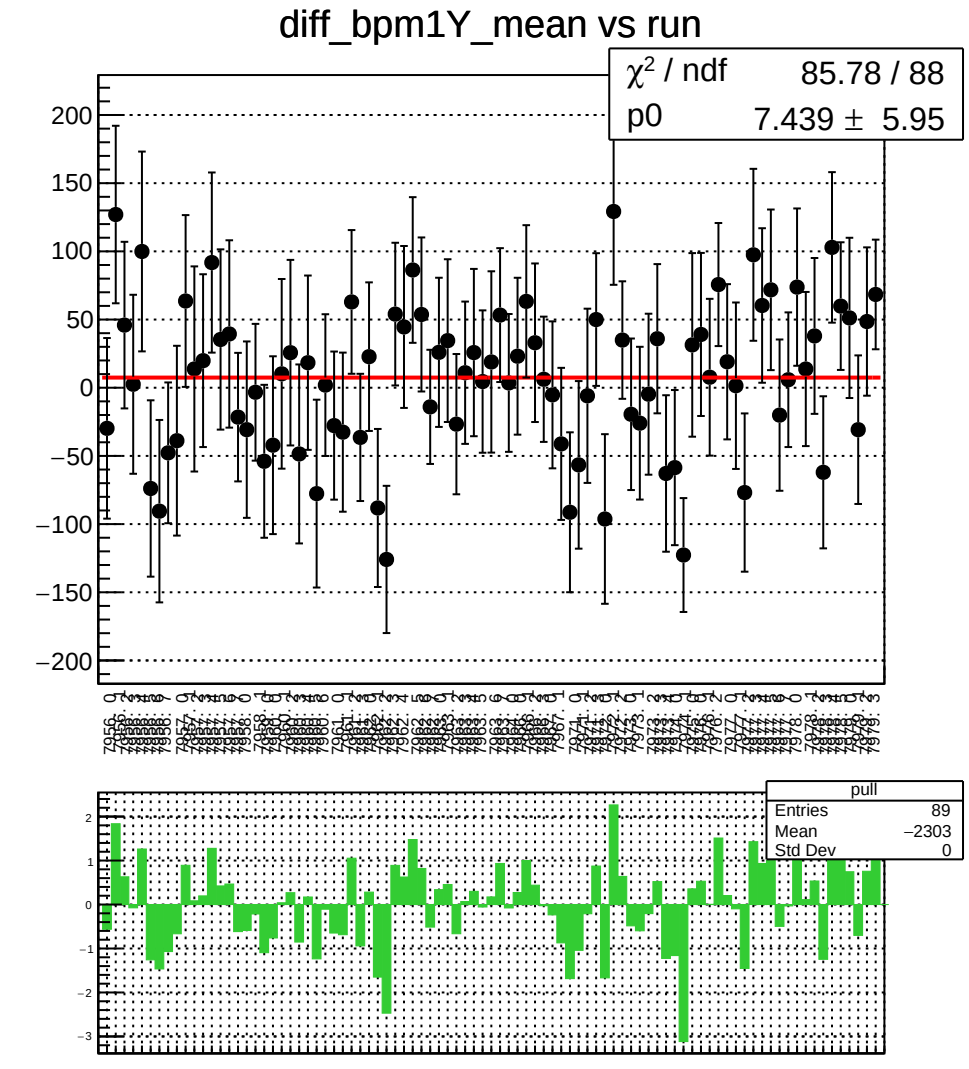

pull1D
Entries 89
Mean −0.01595
Std Dev 1.037

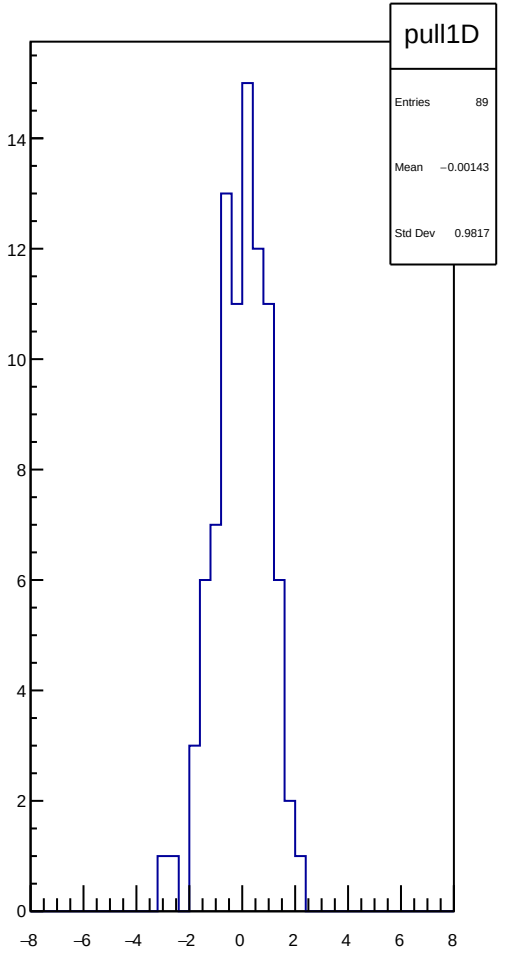

diff_bpm4ecY_rms vs run
χ² / ndf 1.251e+04 / 88
p0 5032 ± 3.774
6500
6000
5500
5000
4500
4000

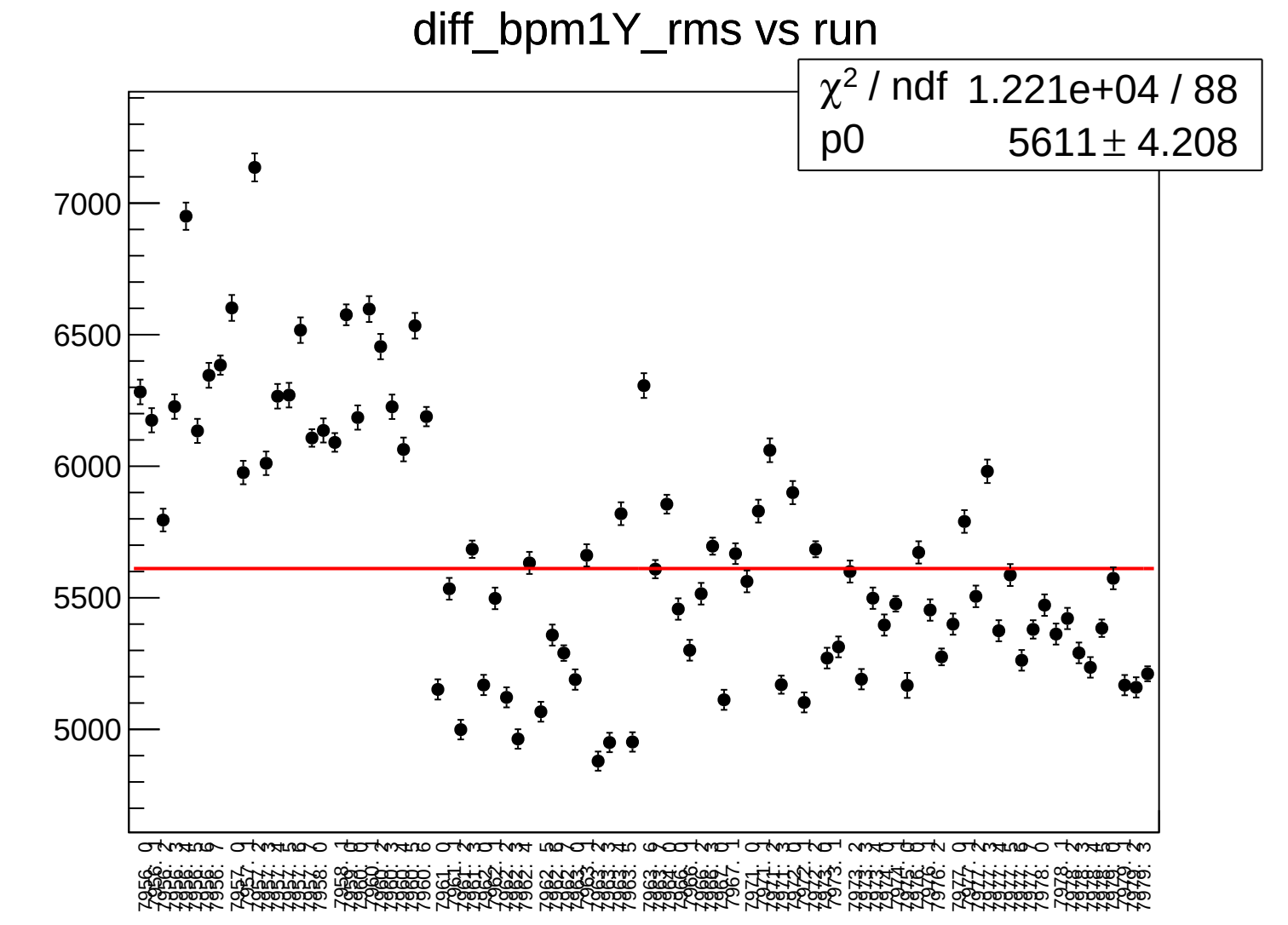

diff_bpm1X_mean vs run
χ² / ndf 111.7 / 88
p0 9.632 ± 23.89
pull
Entries 89
Mean 9417
Std Dev 0

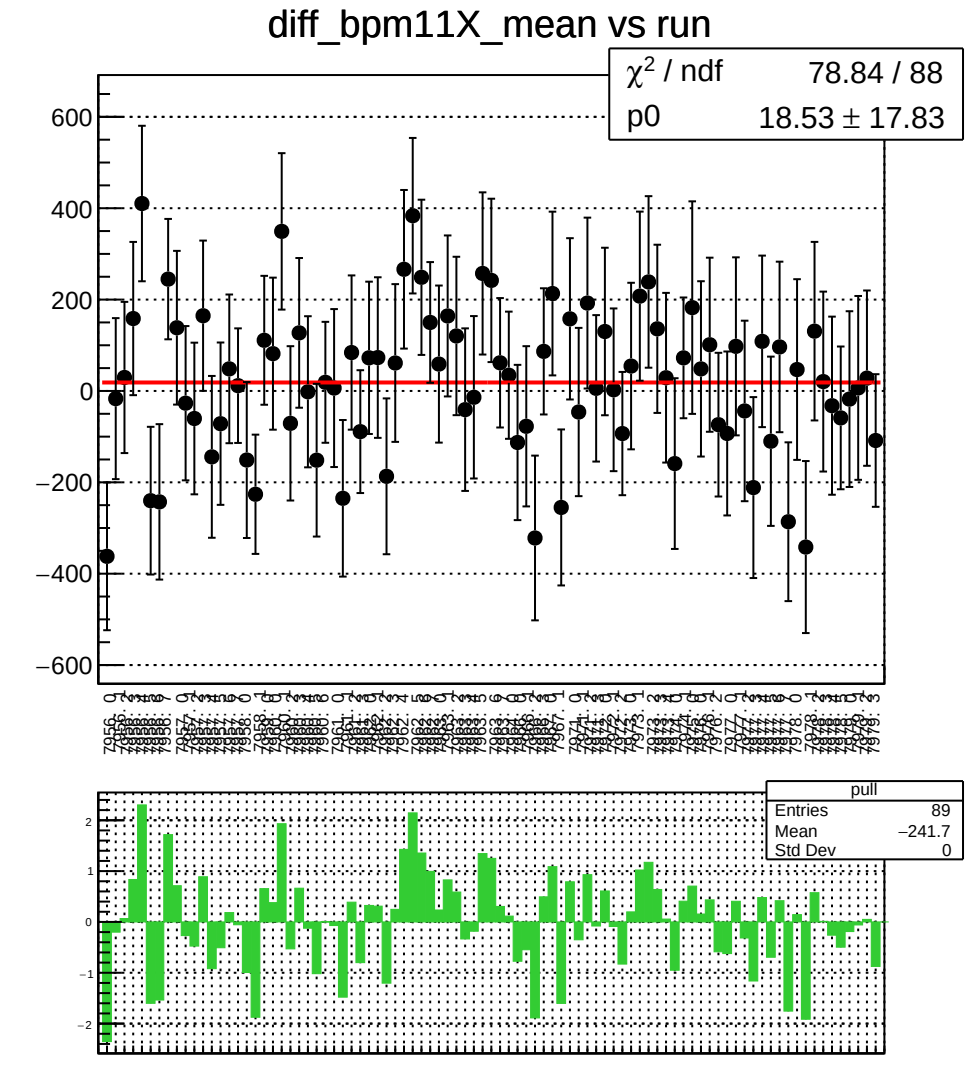

pull1D
Entries 89
Mean 0.0003713
Std Dev 1.12

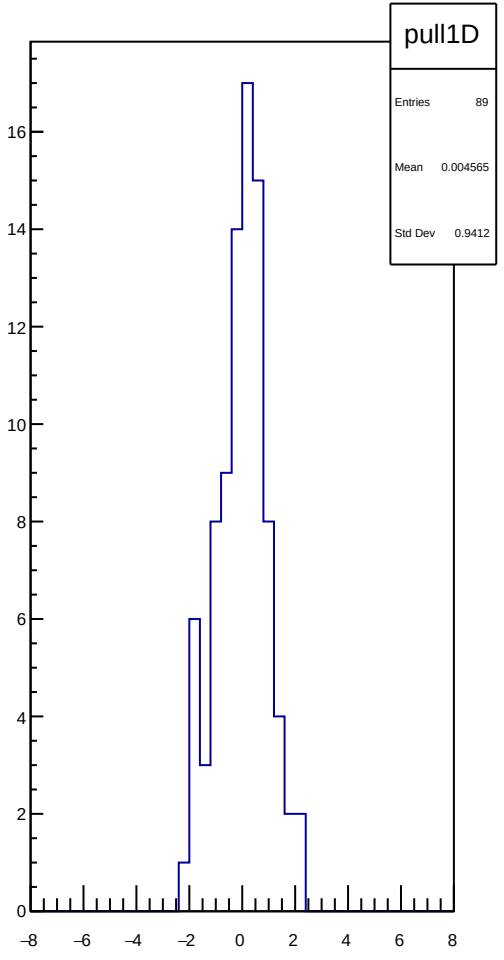

diff_bpm1X_rms vs run
χ² / ndf 4905 / 88
p0 2.258e+04 ± 16.89
26000
25000
24000
23000
22000
21000
20000

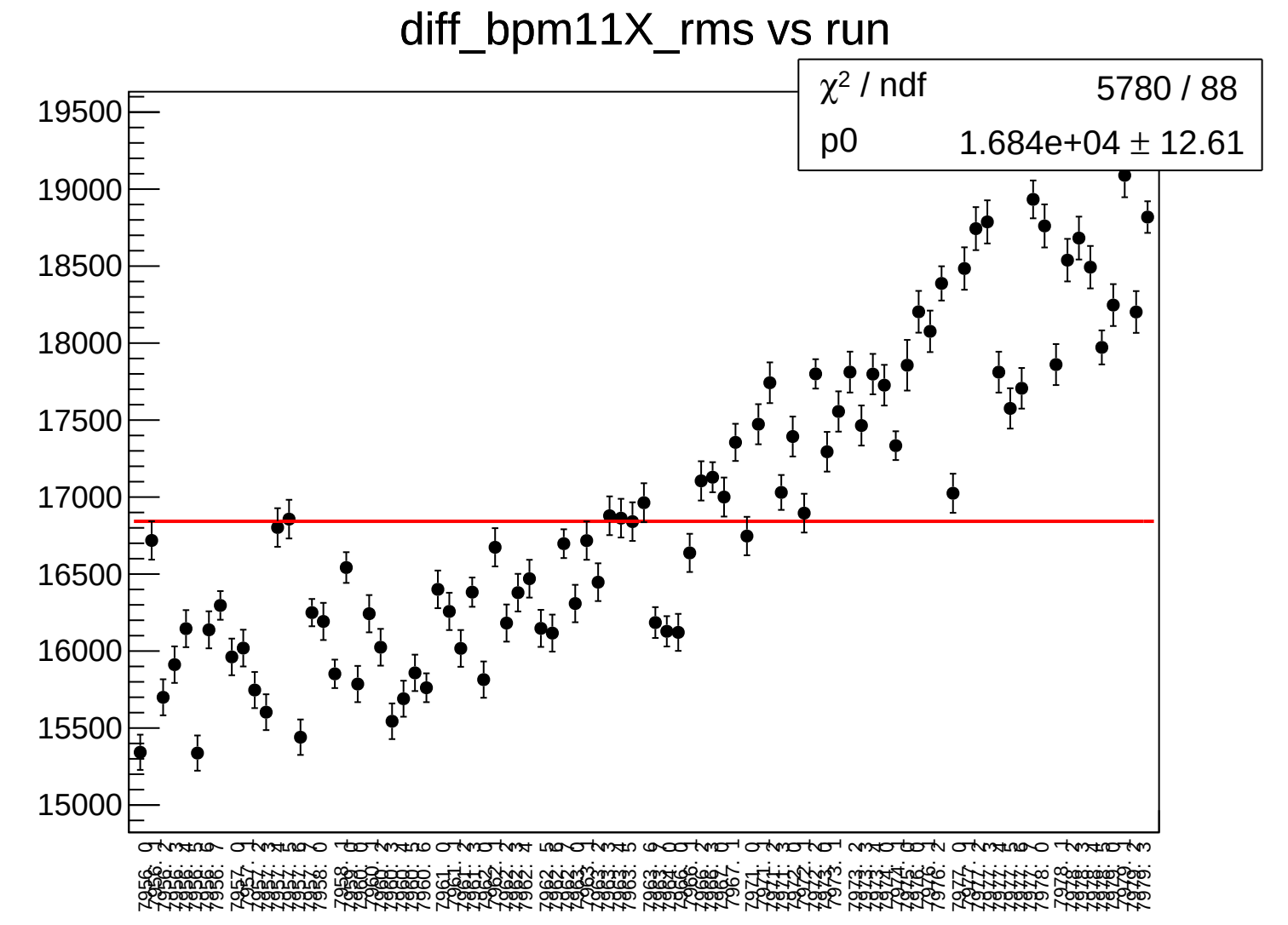

diff_bpm1Y_mean vs run
χ² / ndf 85.78 / 88
p0 7.439 ± 5.95
pull
Entries 89
Mean −2303
Std Dev 0

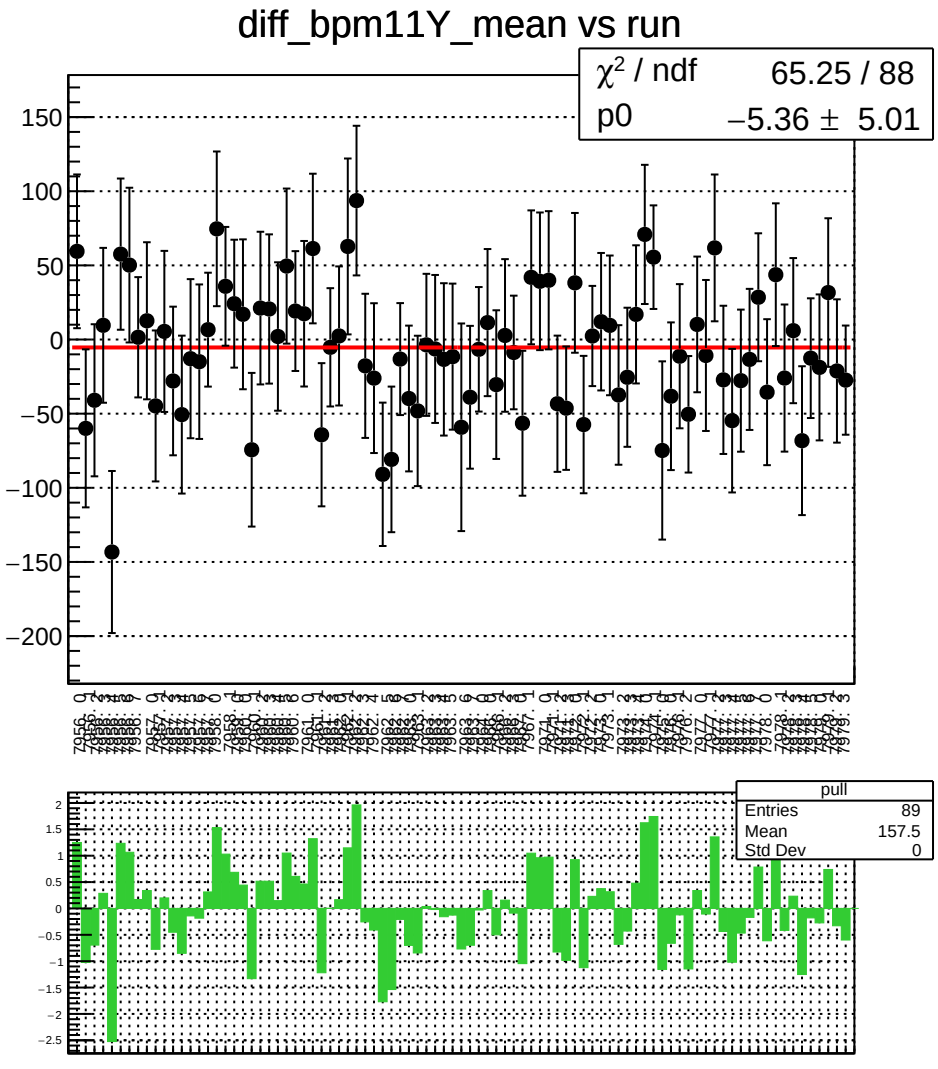

pull1D
Entries 89
Mean −0.00143
Std Dev 0.9817

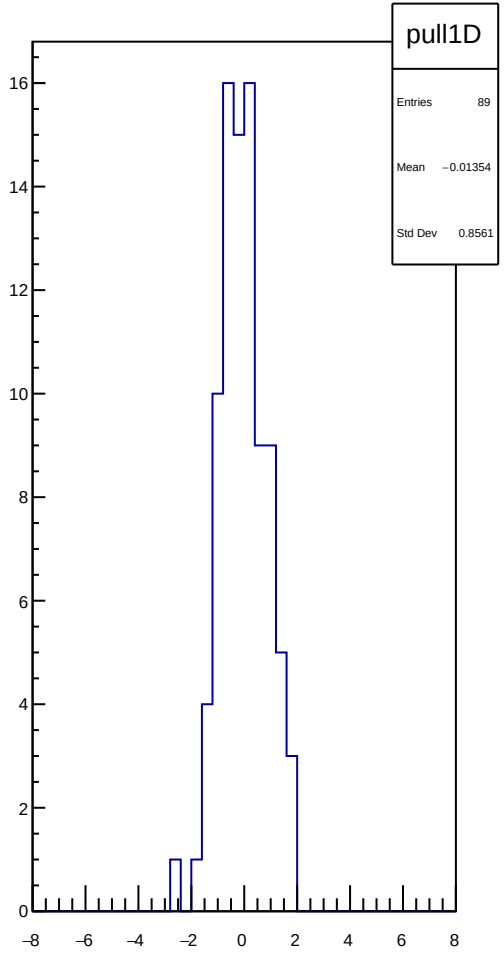

diff_bpm1Y_rms vs run
χ² / ndf 1.221e+04 / 88
p0 5611 ± 4.208
7000
6500
6000
5500
5000

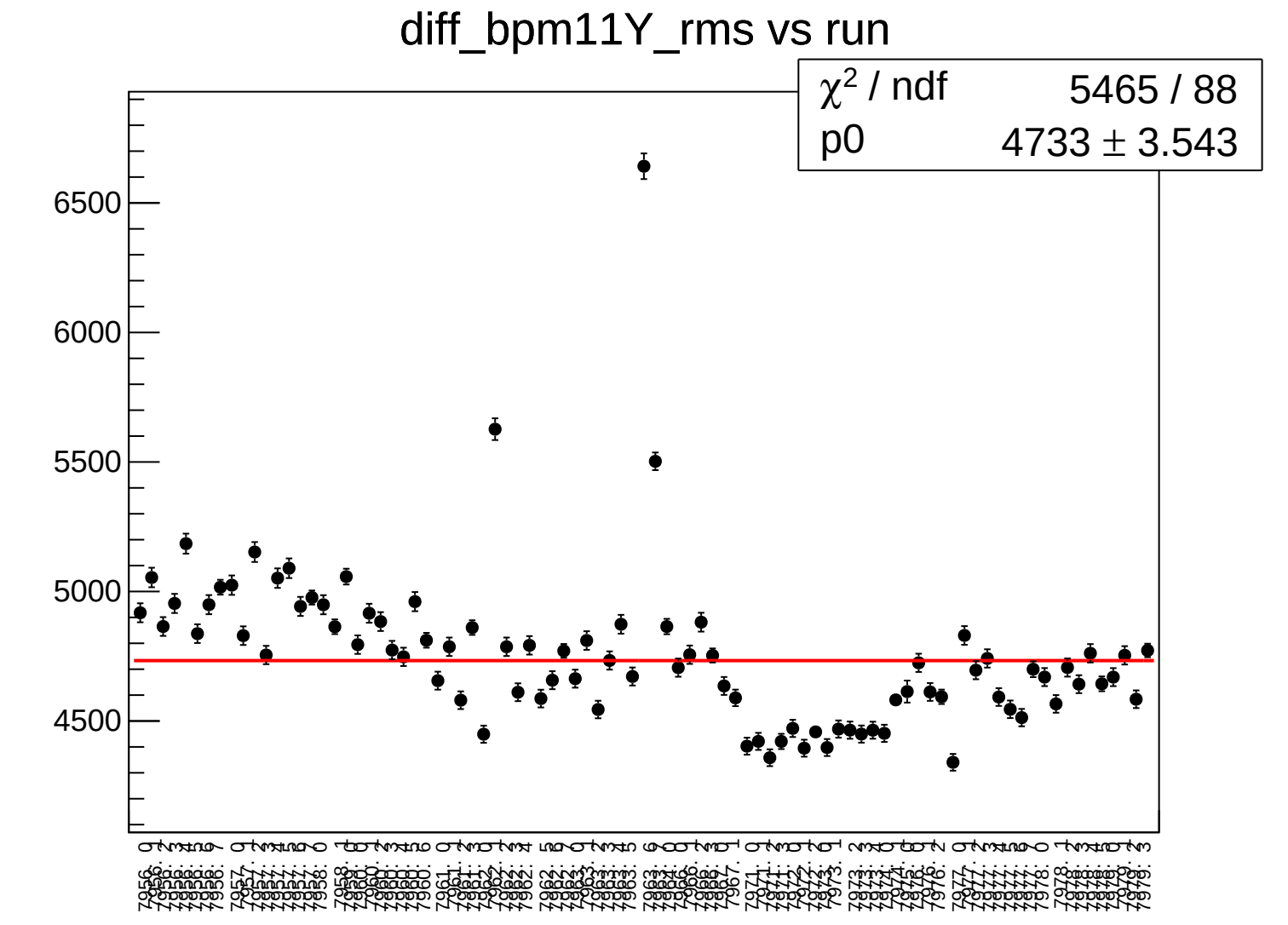

diff_bpm11X_mean vs run
$\chi^2$ / ndf 78.84 / 88
p0 18.53 ± 17.83
pull
Entries 89
Mean −241.7
Std Dev 0

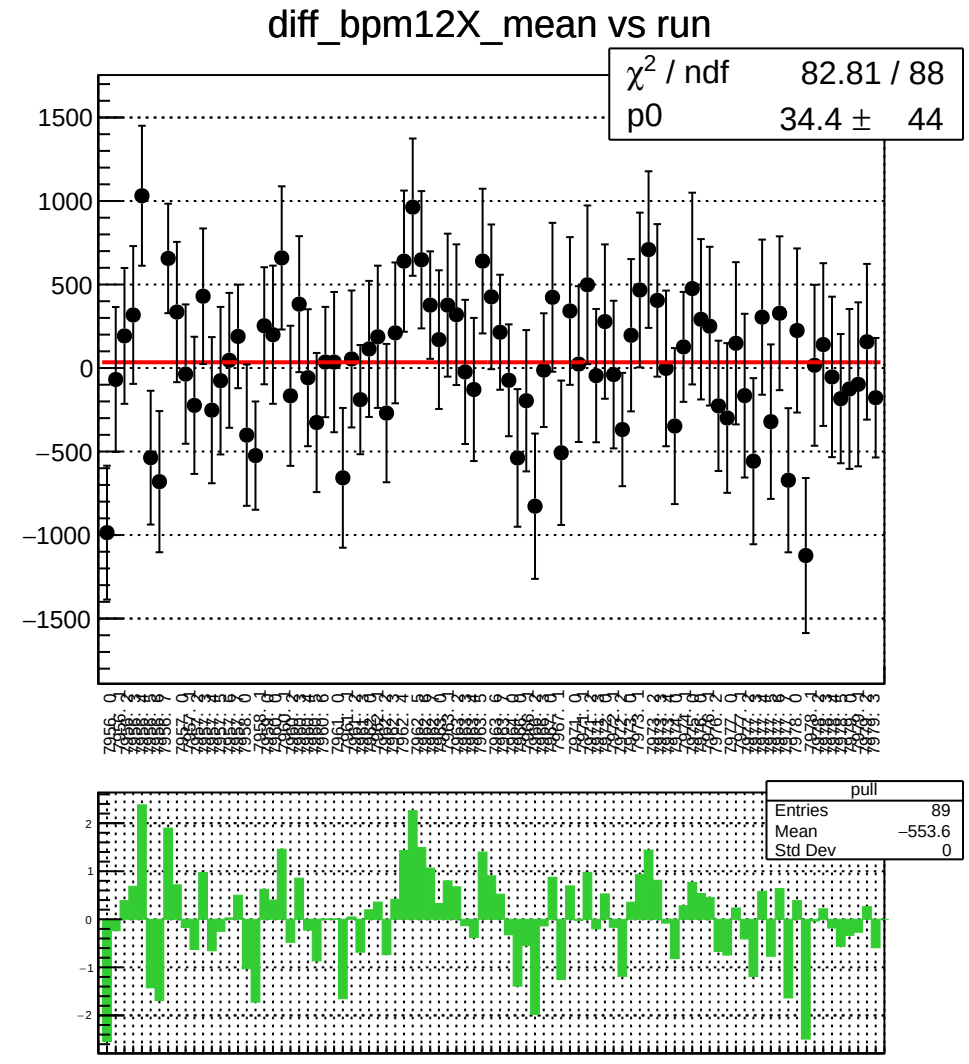

pull1D
Entries 89
Mean 0.004565
Std Dev 0.9412

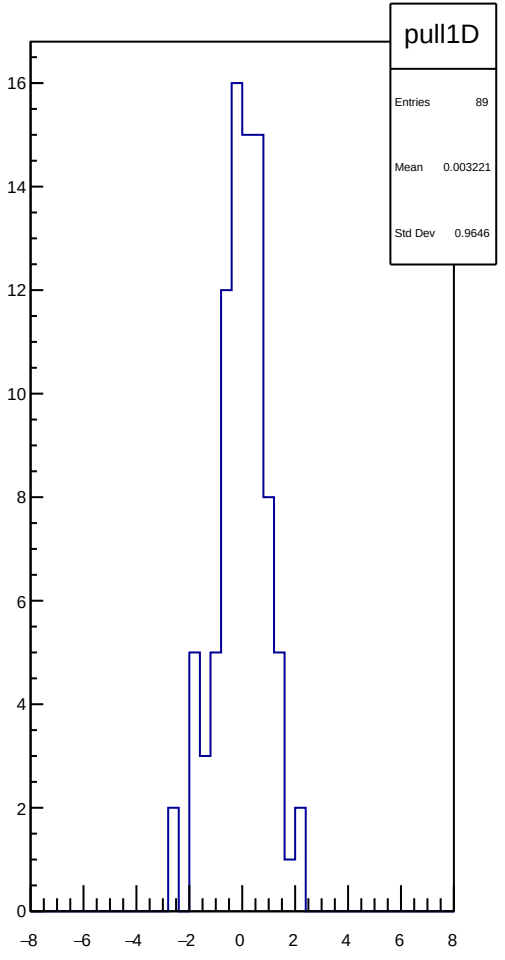

diff_bpm11X_rms vs run
χ² / ndf 5780 / 88
p0 1.684e+04 ± 12.61
19500
19000
18500
18000
17500
17000
16500
16000
15500
15000

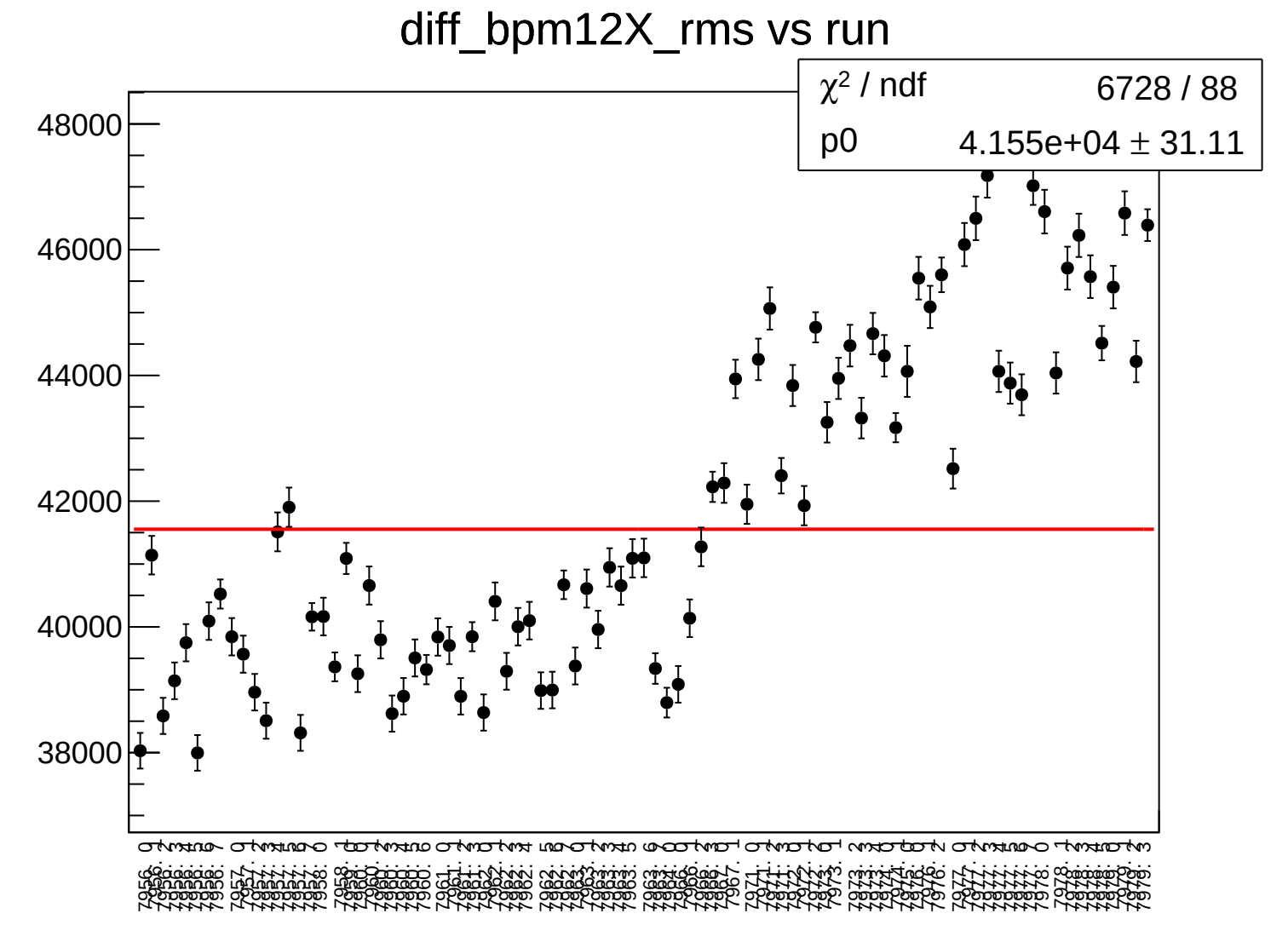

diff_bpm11Y_mean vs run
χ² / ndf 65.25 / 88
p0 −5.36 ± 5.01
pull
Entries 89
Mean 157.5
Std Dev 0

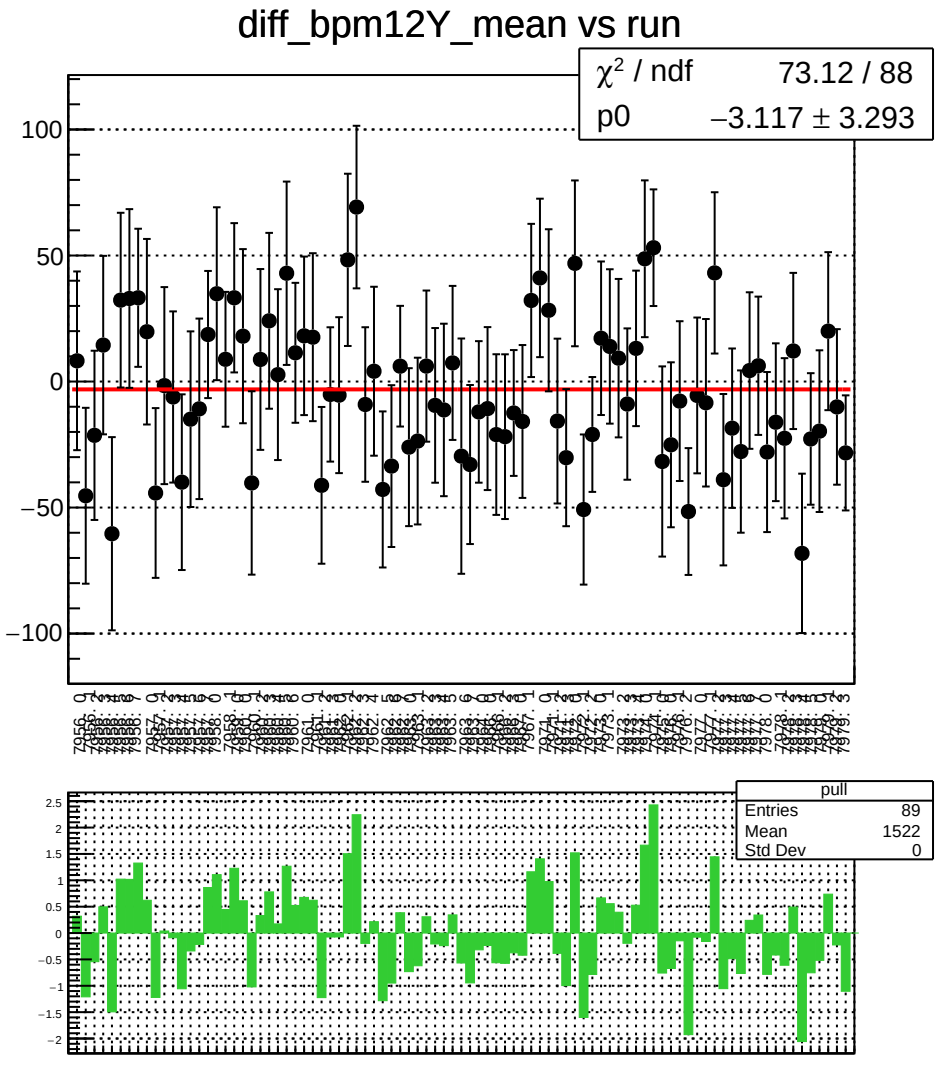

pull1D
Entries 89
Mean −0.01354
Std Dev 0.8561

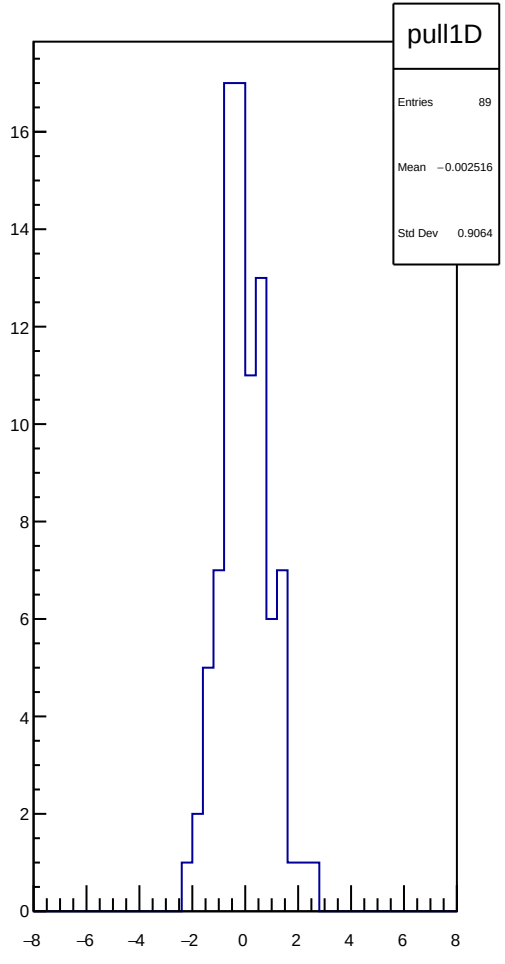

diff_bpm11Y_rms vs run
$\chi^2$ / ndf 5465 / 88
p0 4733 ± 3.543
6500
6000
5500
5000
4500

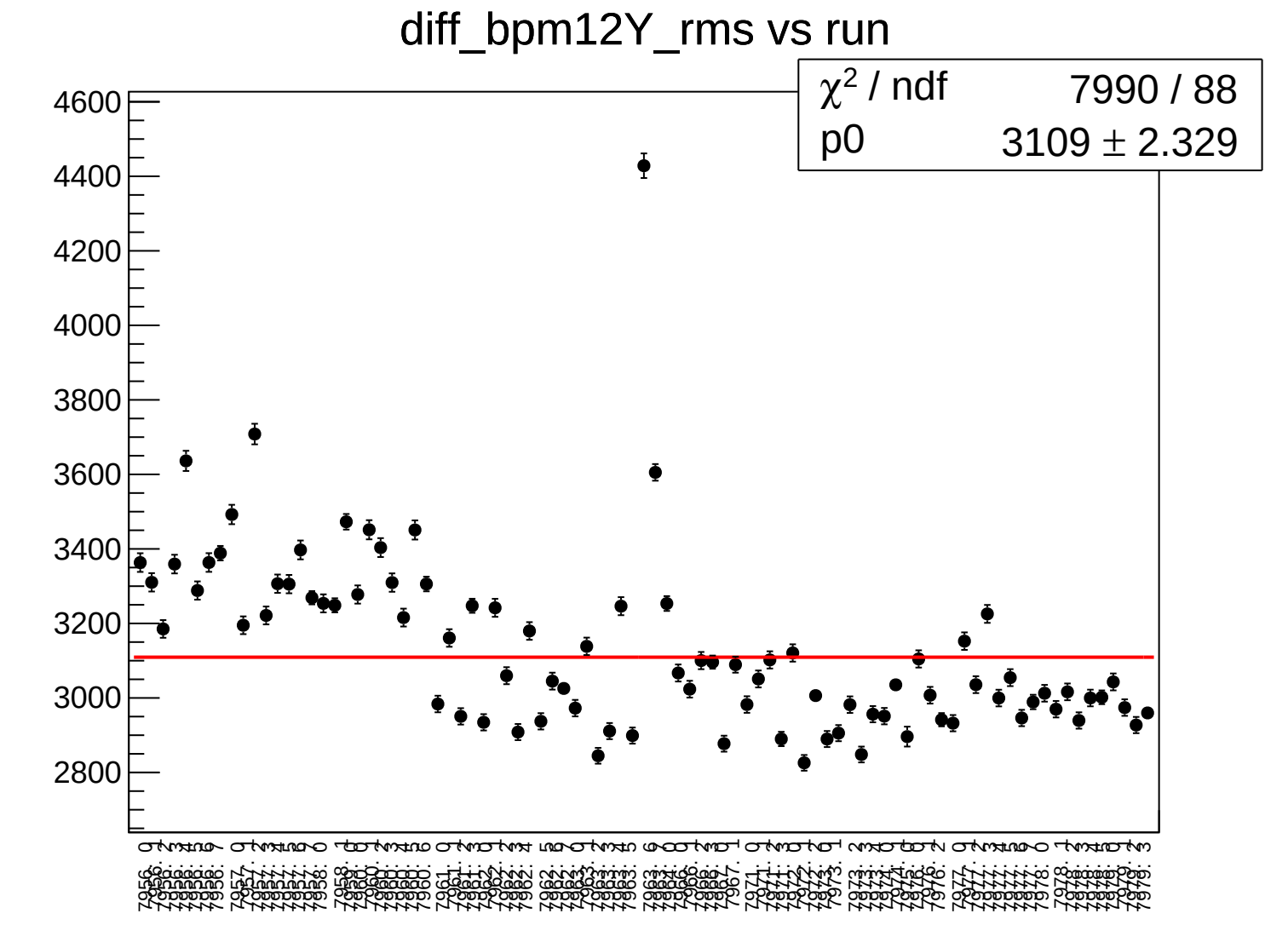

diff_bpm12X_mean vs run
$\chi^2$ / ndf 82.81 / 88
p0 34.4 ± 44
pull
Entries 89
Mean −553.6
Std Dev 0

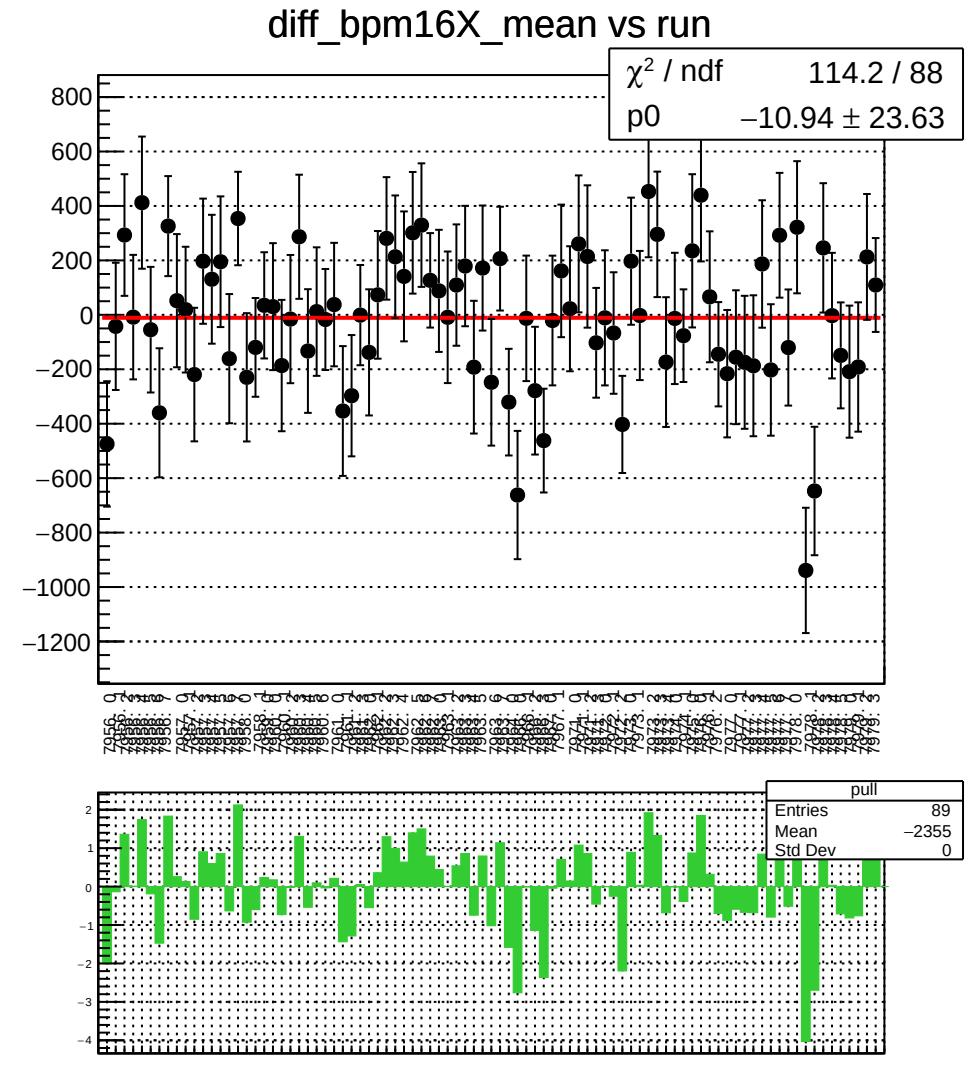

pull1D
Entries 89
Mean 0.003221
Std Dev 0.9646

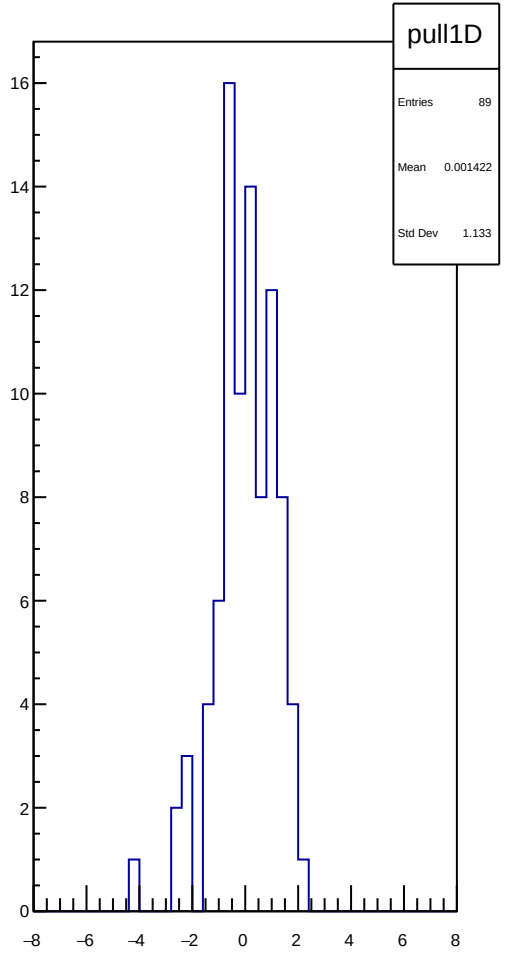

diff_bpm12X_rms vs run
χ² / ndf 6728 / 88
p0 4.155e+04 ± 31.11
48000
46000
44000
42000
40000
38000

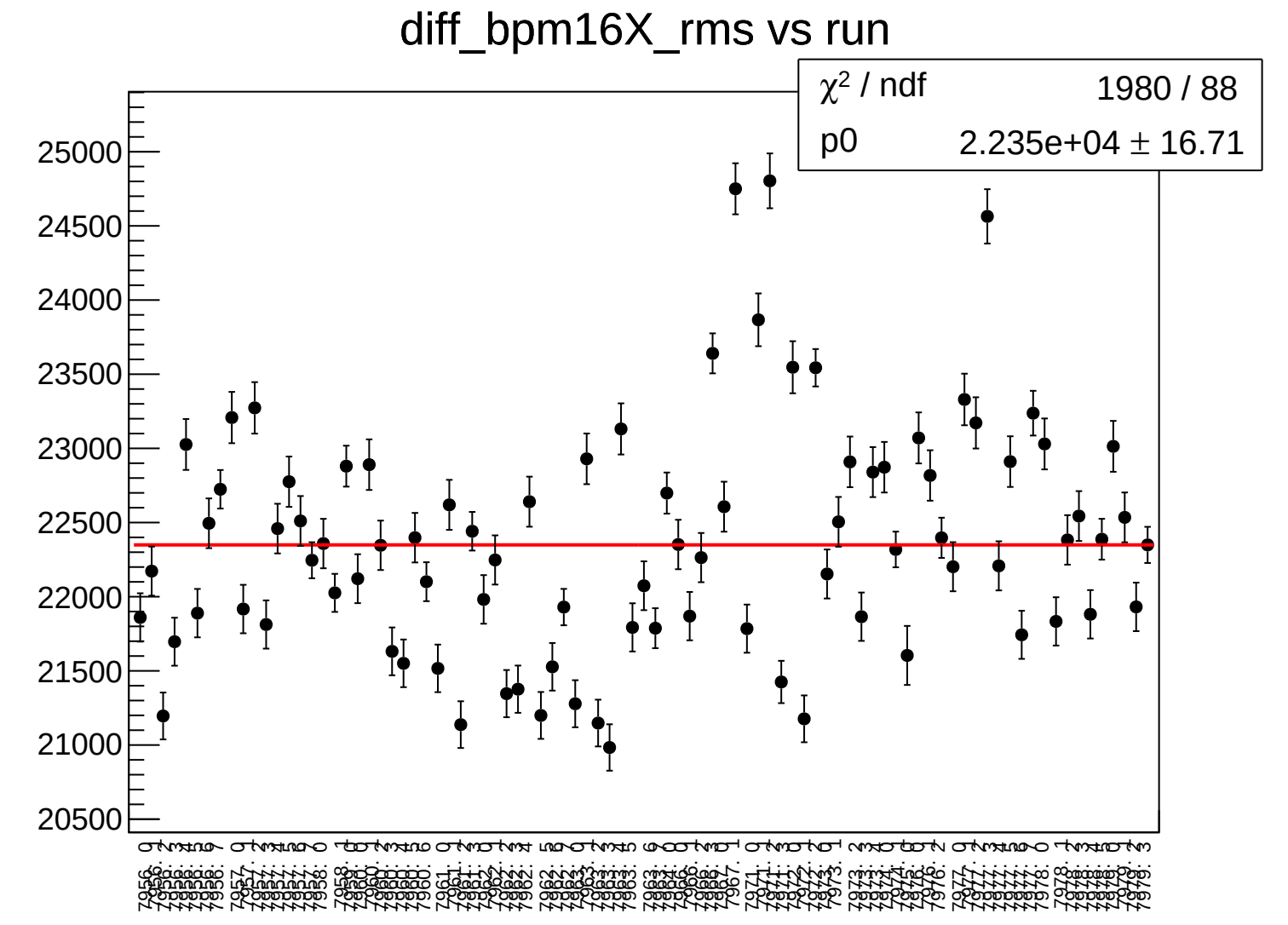

diff_bpm12Y_mean vs run
$\chi^2$ / ndf 73.12 / 88
p0 −3.117 ± 3.293
100
50
0
−50
−100
pull
Entries 89
Mean 1522
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

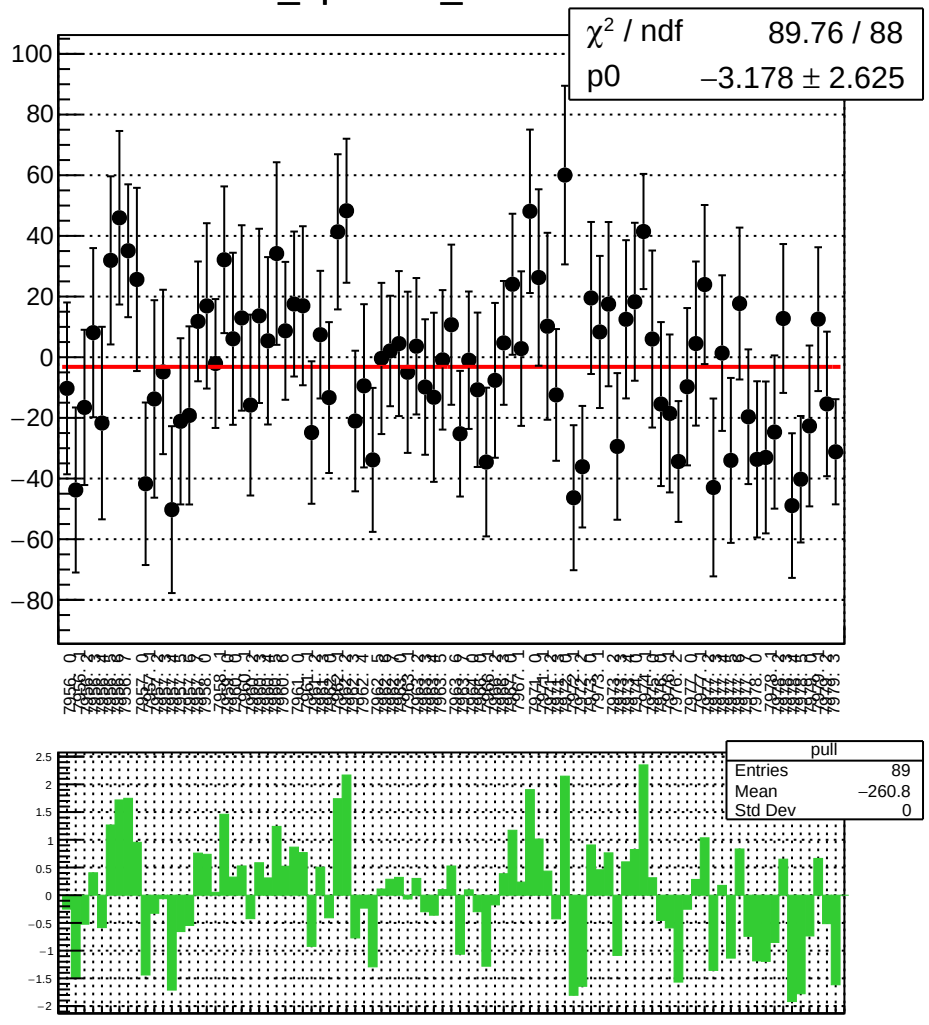

pull1D
Entries 89
Mean −0.002516
Std Dev 0.9064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

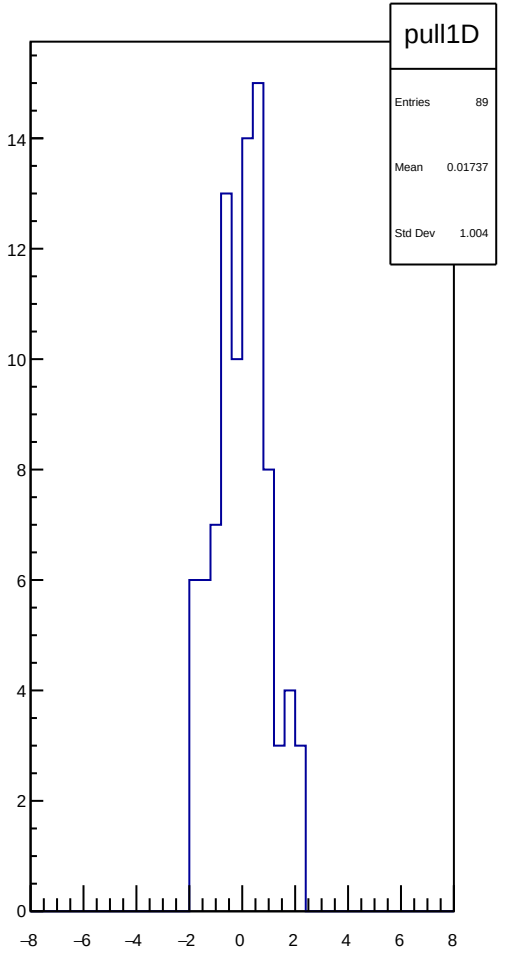

diff_bpm12Y_rms vs run
χ² / ndf 7990 / 88
p0 3109 ± 2.329
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

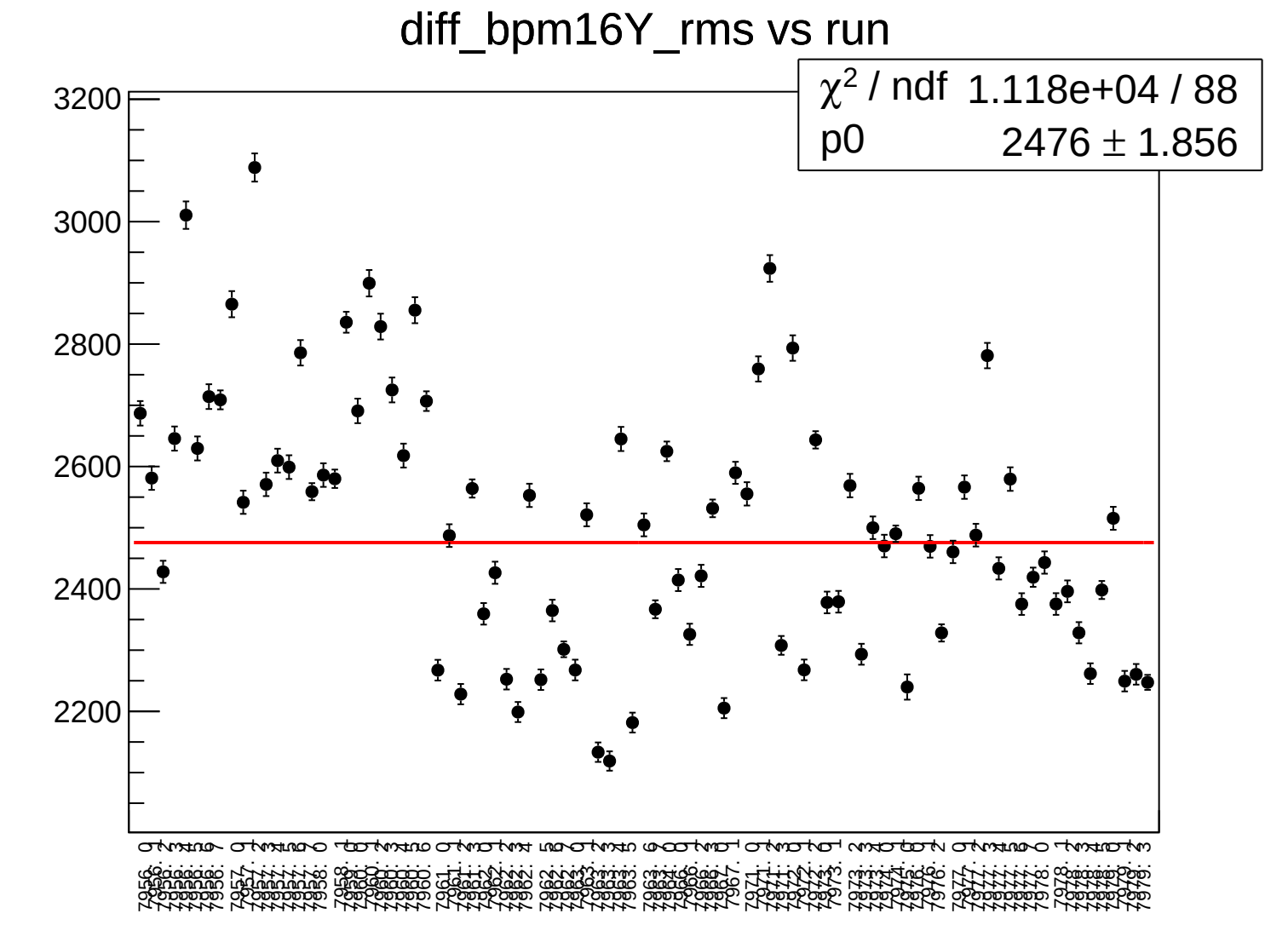

diff_bpm16X_mean vs run
χ² / ndf 114.2 / 88
p0 −10.94 ± 23.63
pull
Entries 89
Mean −2355
Std Dev 0

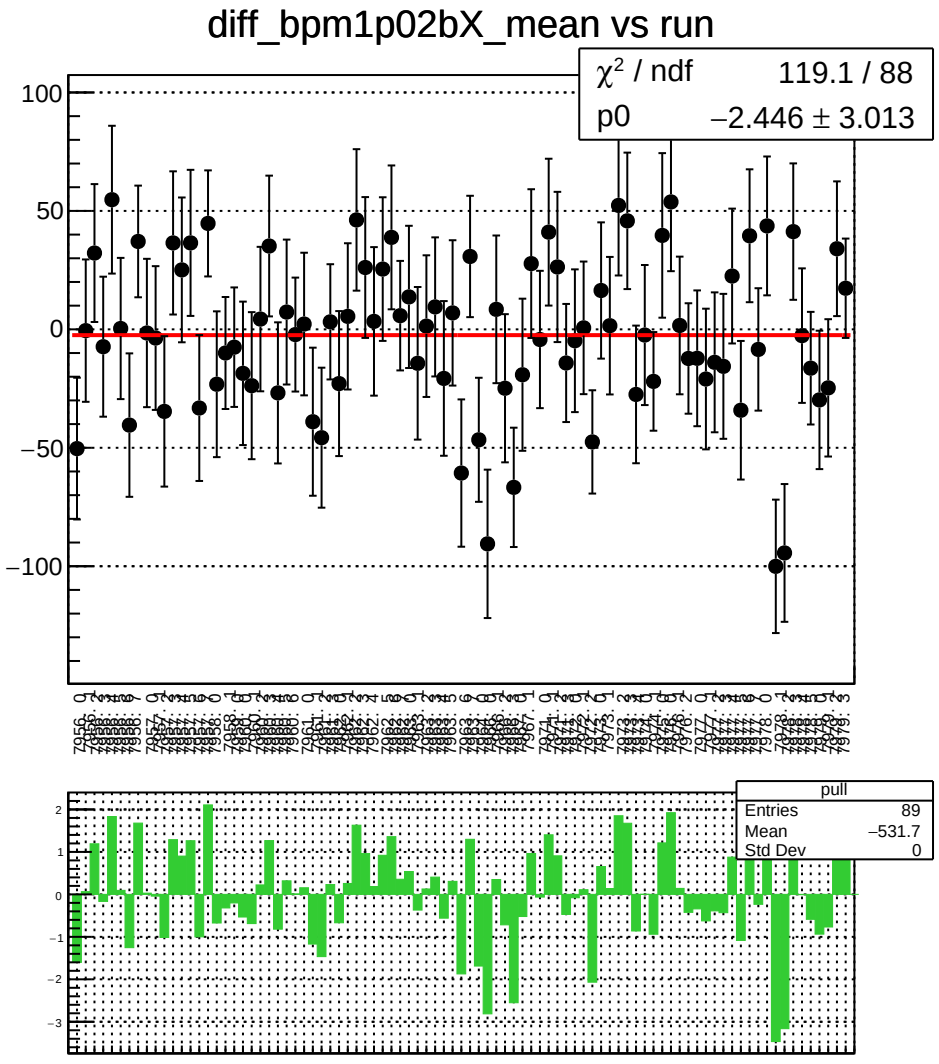

pull1D
Entries 89
Mean 0.001422
Std Dev 1.133

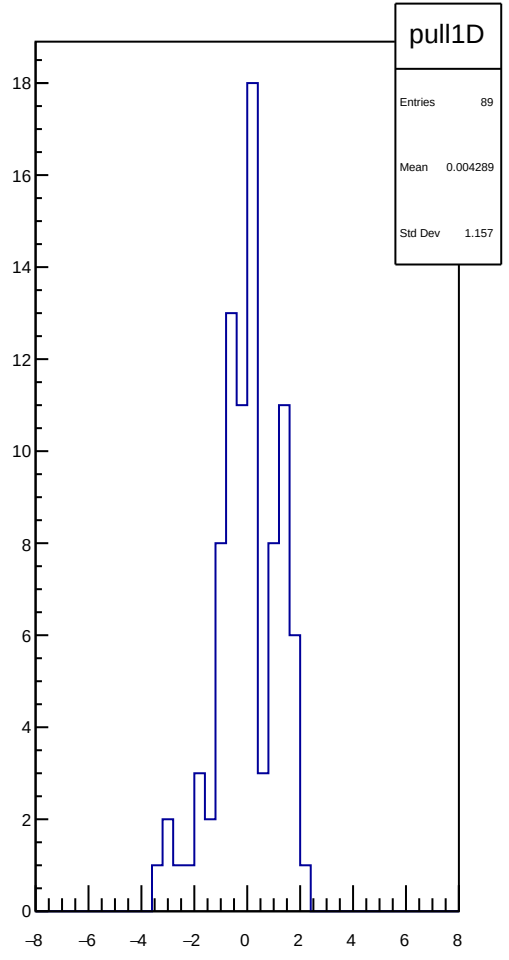

diff_bpm16X_rms vs run
χ² / ndf 1980 / 88
p0 2.235e+04 ± 16.71
25000
24500
24000
23500
23000
22500
22000
21500
21000
20500

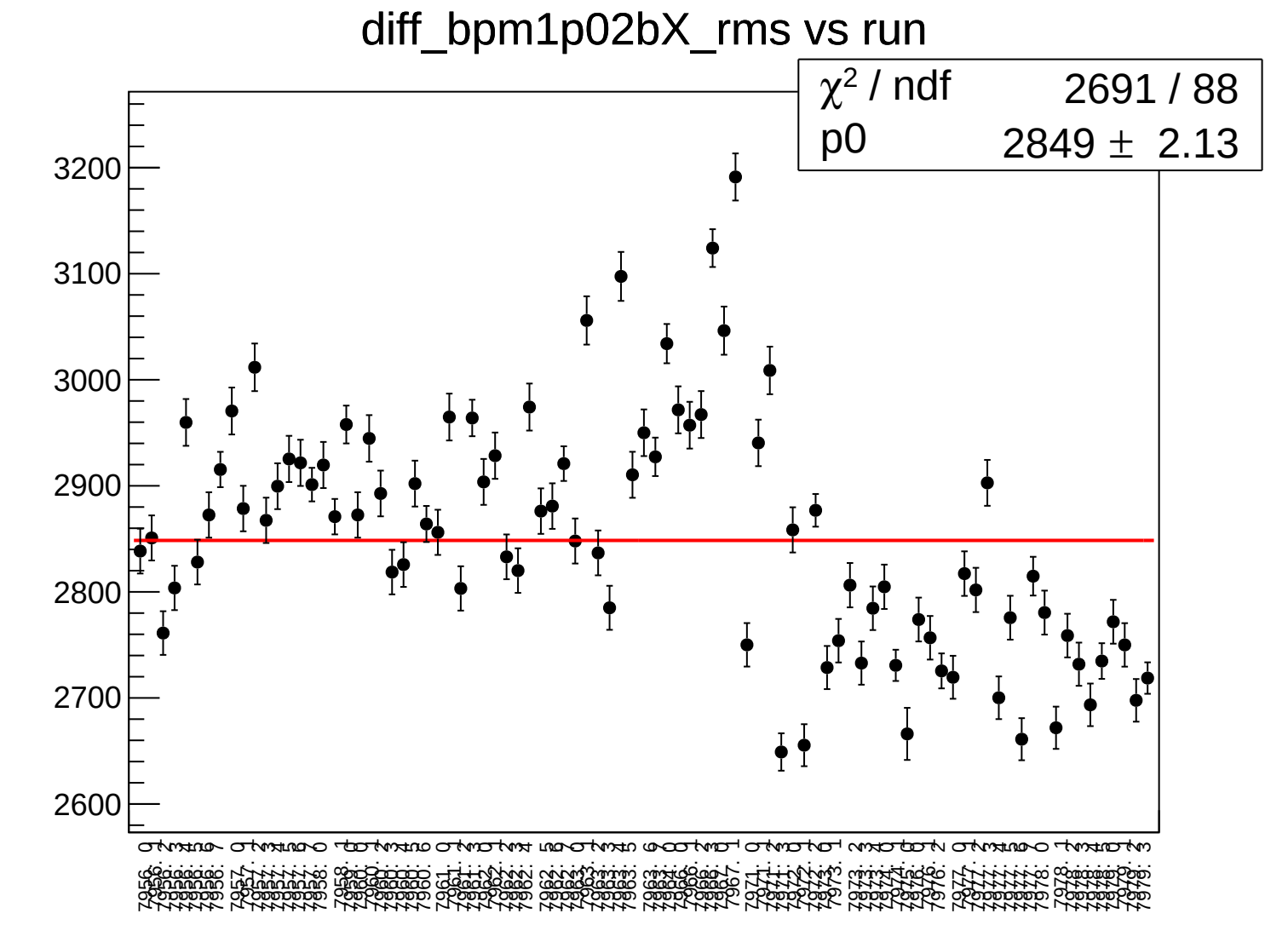

diff_bpm16Y_mean vs run
χ² / ndf 89.76 / 88
p0 −3.178 ± 2.625
pull
Entries 89
Mean −260.8
Std Dev 0

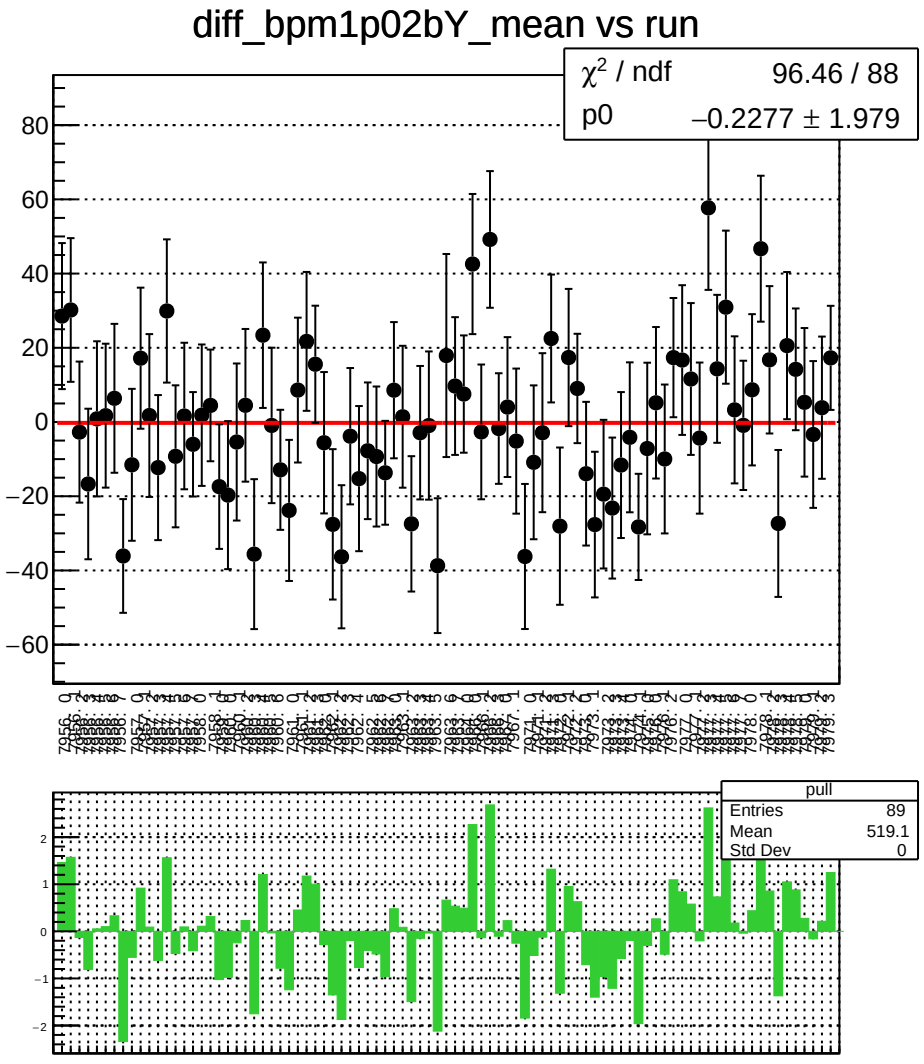

pull1D
Entries 89
Mean 0.01737
Std Dev 1.004

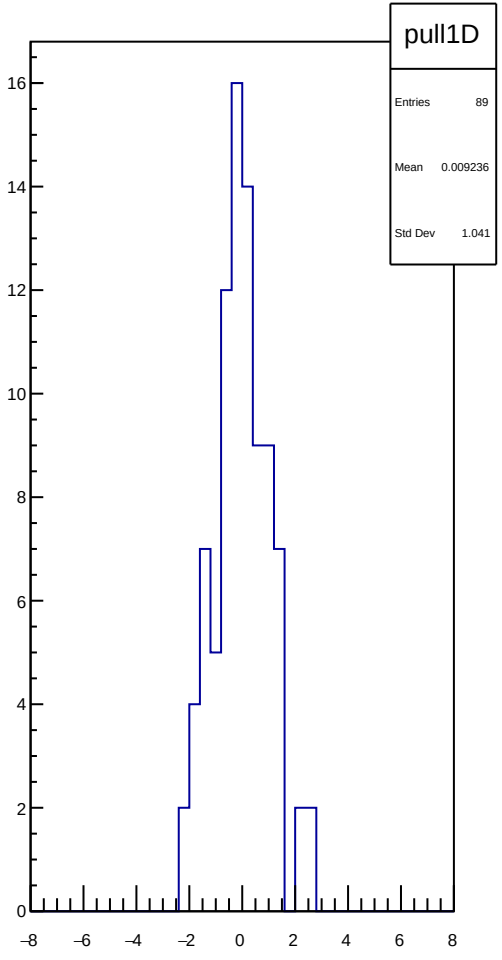

diff_bpm16Y_rms vs run
χ² / ndf 1.118e+04 / 88
p0 2476 ± 1.856
3200
3000
2800
2600
2400
2200

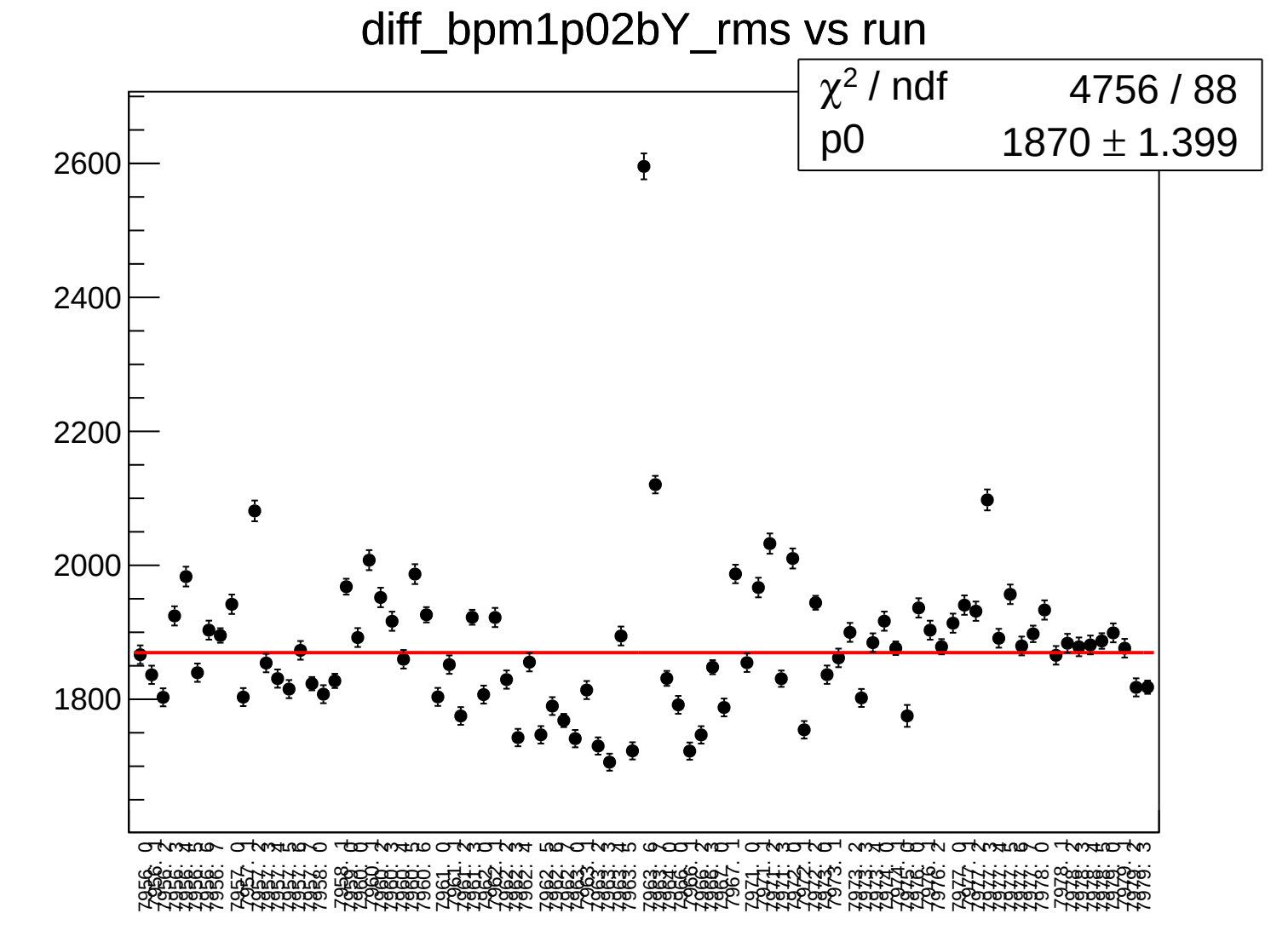

diff_bpm1p02bX_mean vs run
χ² / ndf 119.1 / 88
p0 −2.446 ± 3.013
100
50
0
−50
−100
pull
Entries 89
Mean −531.7
Std Dev 0
2
1
0
−1
−2
−3

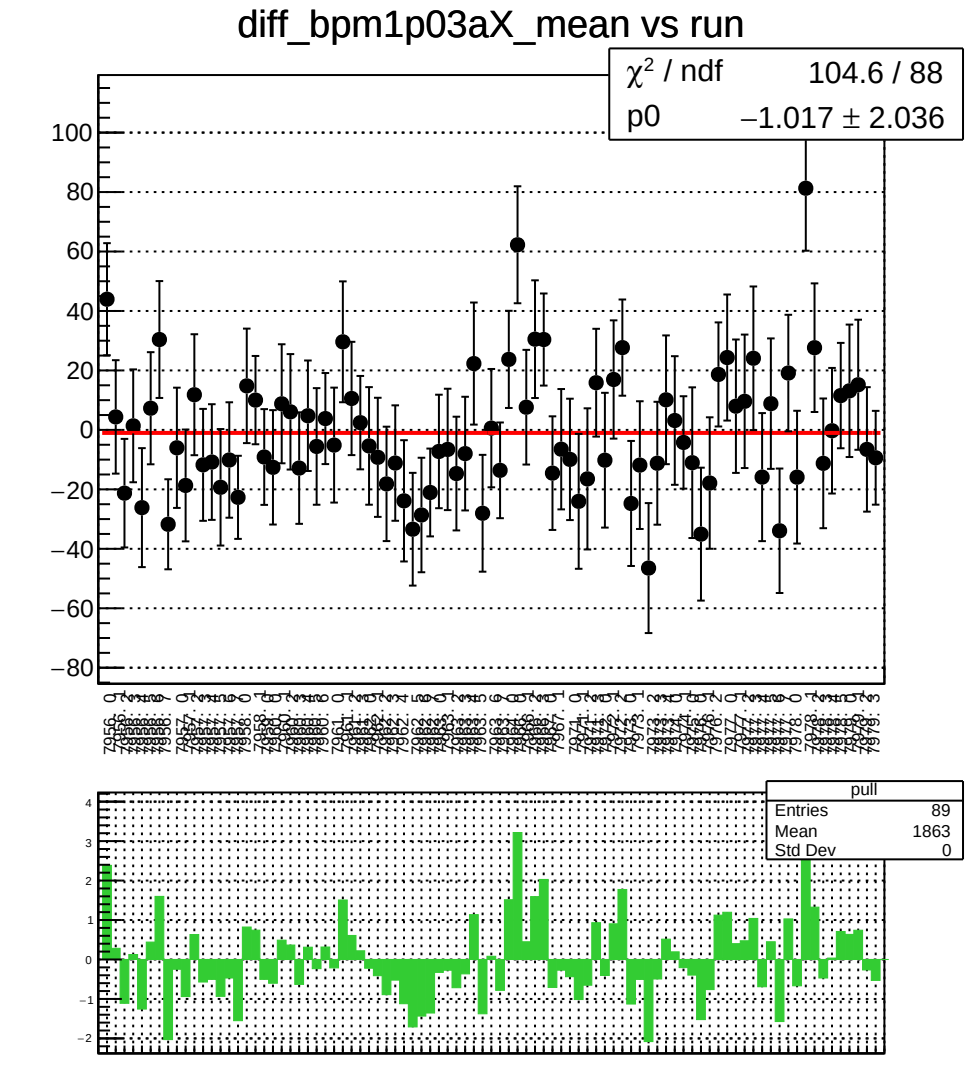

pull1D
Entries 89
Mean 0.004289
Std Dev 1.157
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

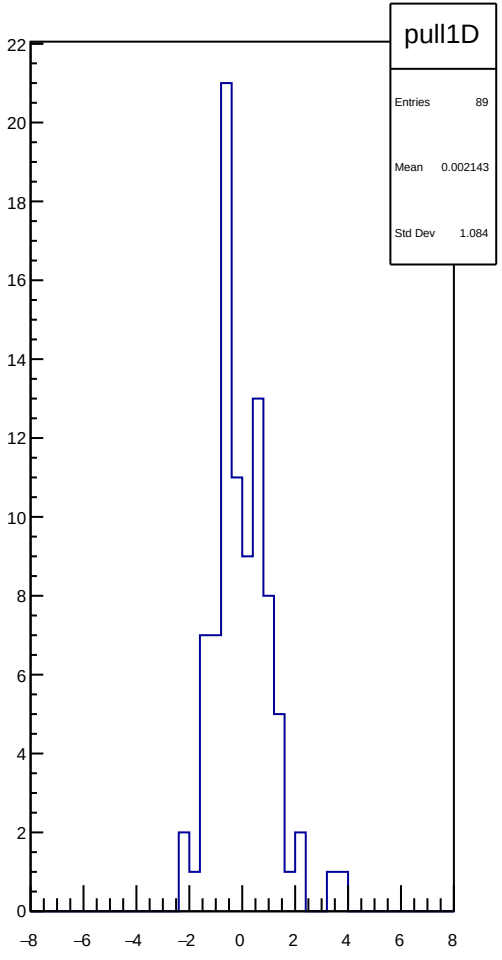

diff_bpm1p02bX_rms vs run
χ² / ndf 2691 / 88
p0 2849 ± 2.13
3200
3100
3000
2900
2800
2700
2600

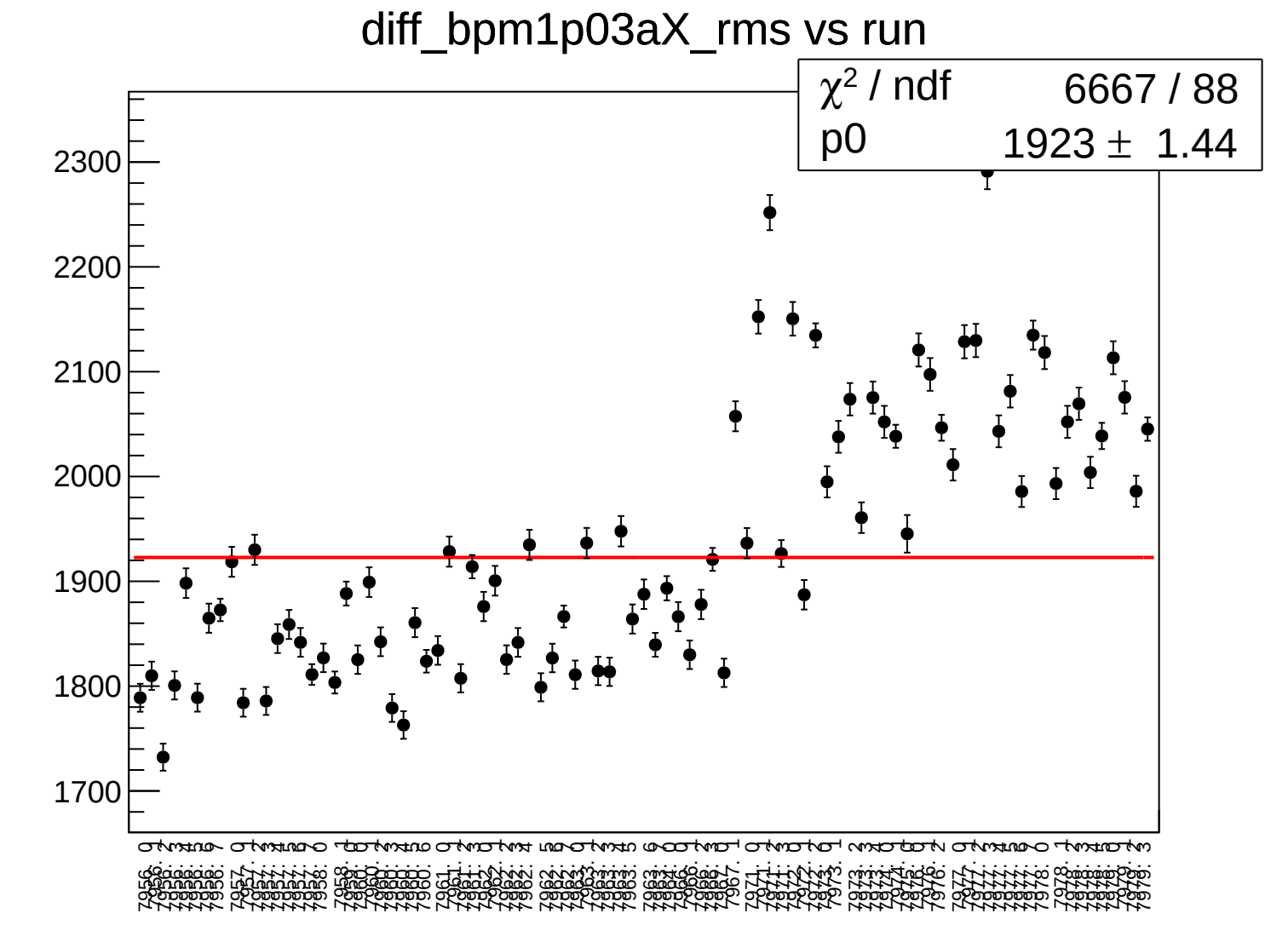

diff_bpm1p02bY_mean vs run
χ² / ndf 96.46 / 88
p0 −0.2277 ± 1.979
pull
Entries 89
Mean 519.1
Std Dev 0

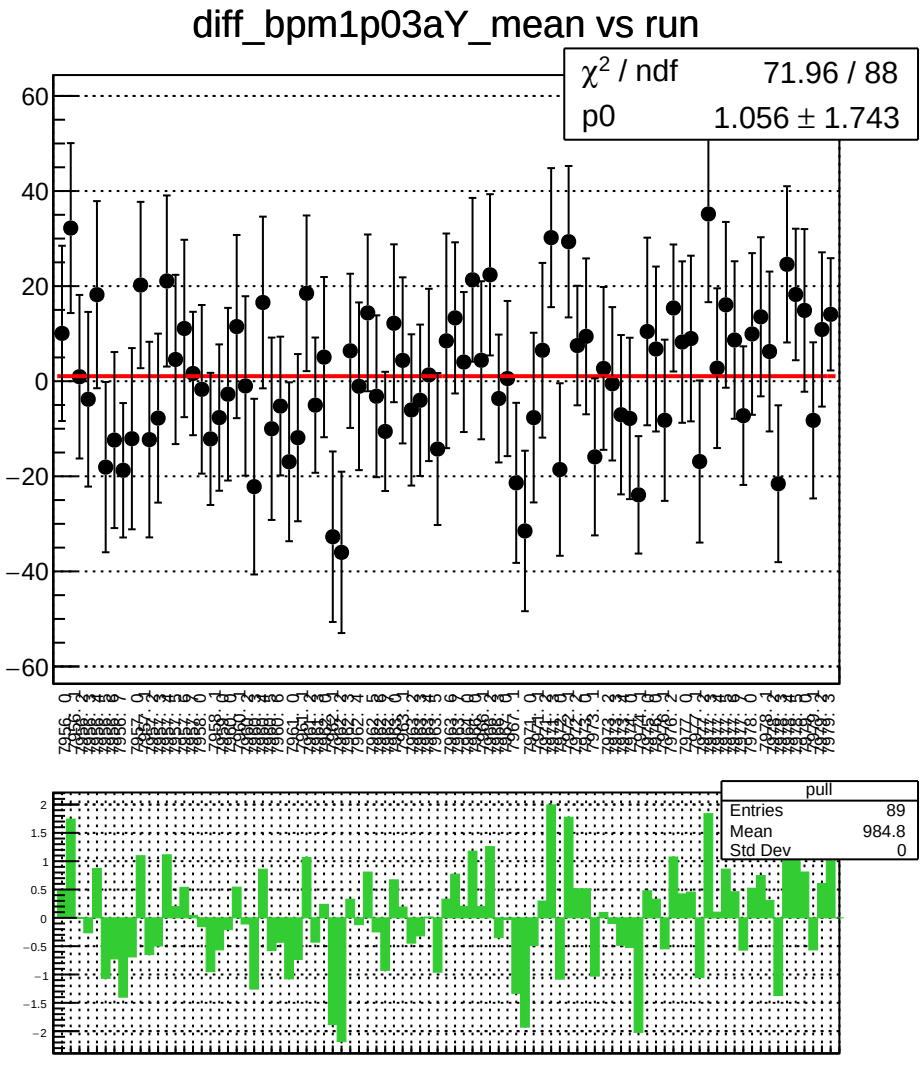

pull1D
Entries 89
Mean 0.009236
Std Dev 1.041

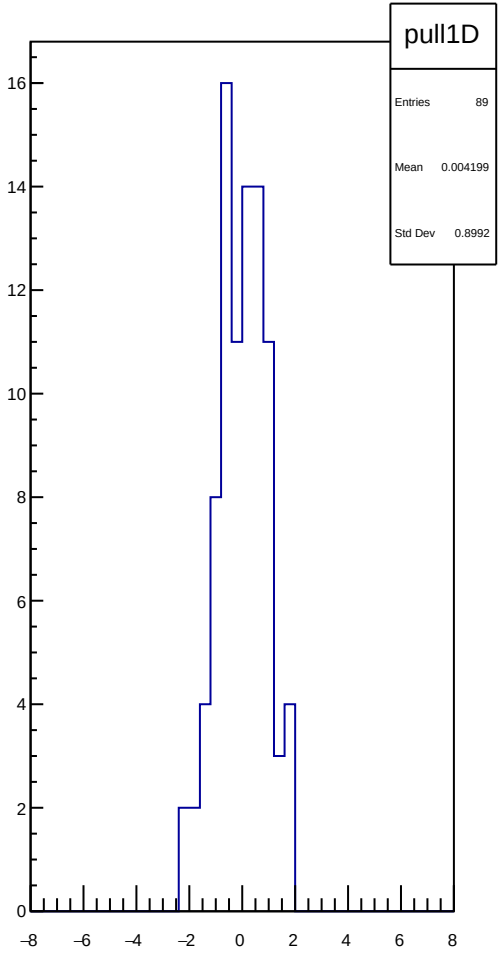

diff_bpm1p02bY_rms vs run
χ² / ndf 4756 / 88
p0 1870 ± 1.399
2600
2400
2200
2000
1800

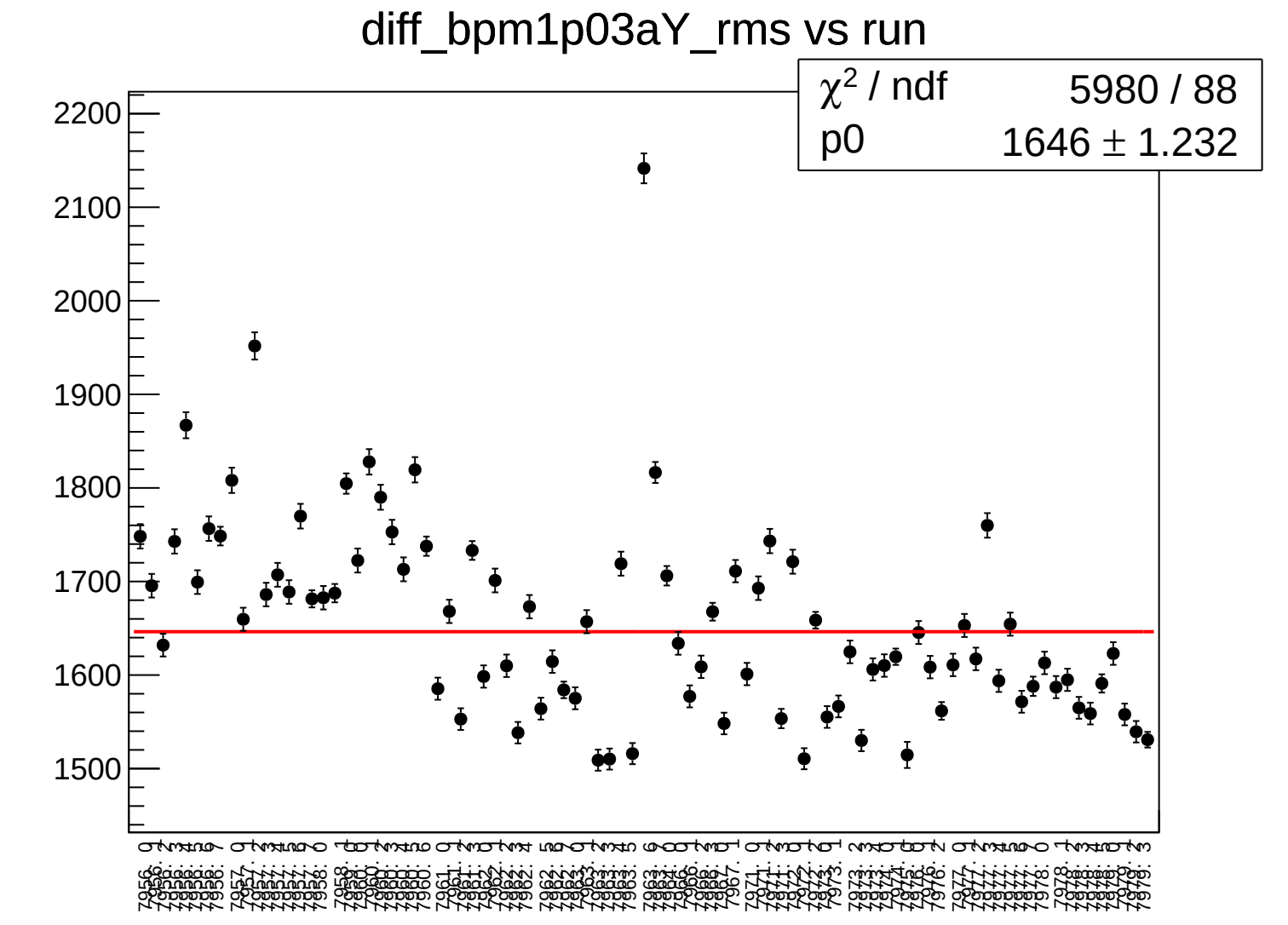

diff_bpm1p03aX_mean vs run
χ² / ndf 104.6 / 88
p0 −1.017 ± 2.036
pull
Entries 89
Mean 1863
Std Dev 0

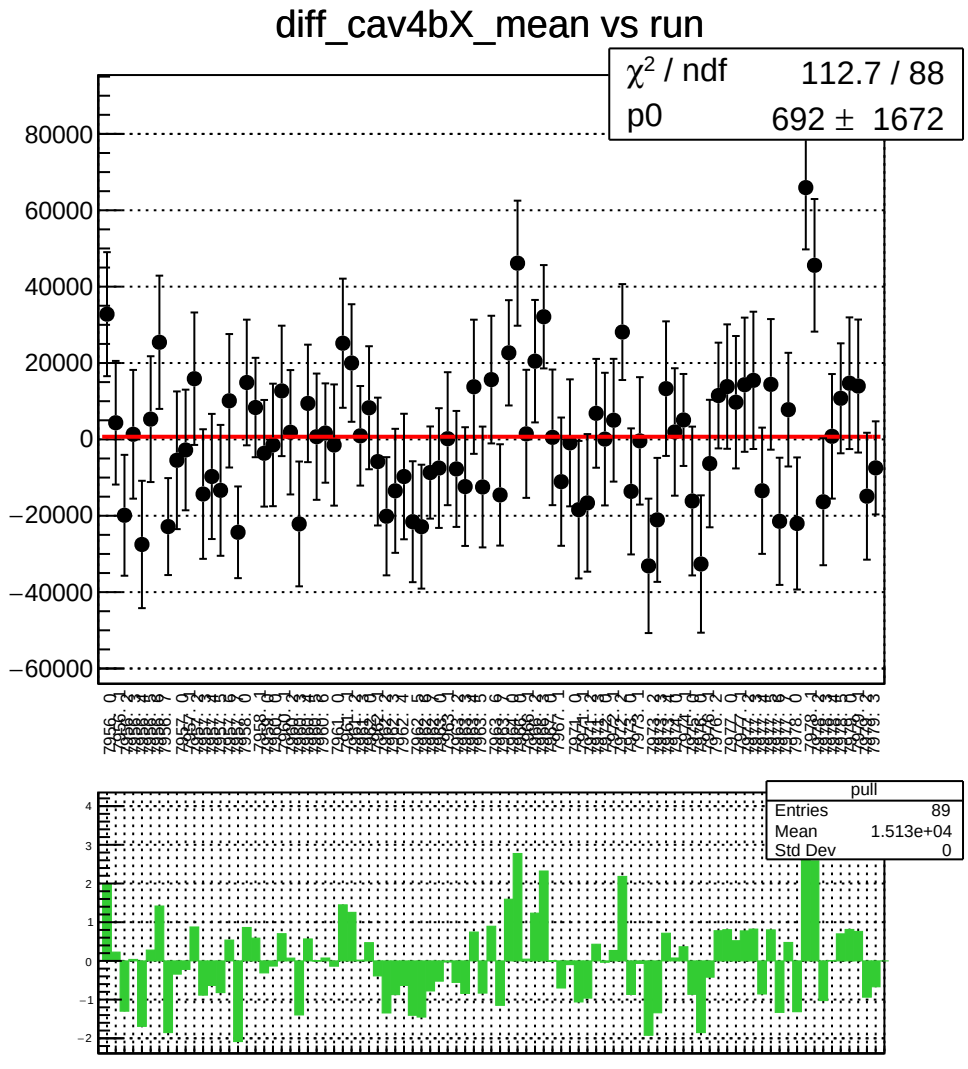

pull1D
Entries 89
Mean 0.002143
Std Dev 1.084

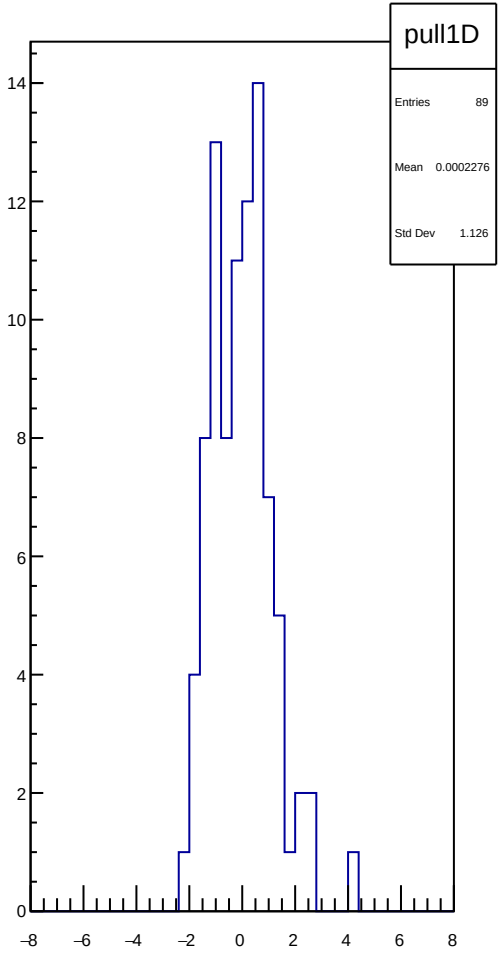

diff_bpm1p03aX_rms vs run
χ² / ndf 6667 / 88
p0 1923 ± 1.44
2300
2200
2100
2000
1900
1800
1700

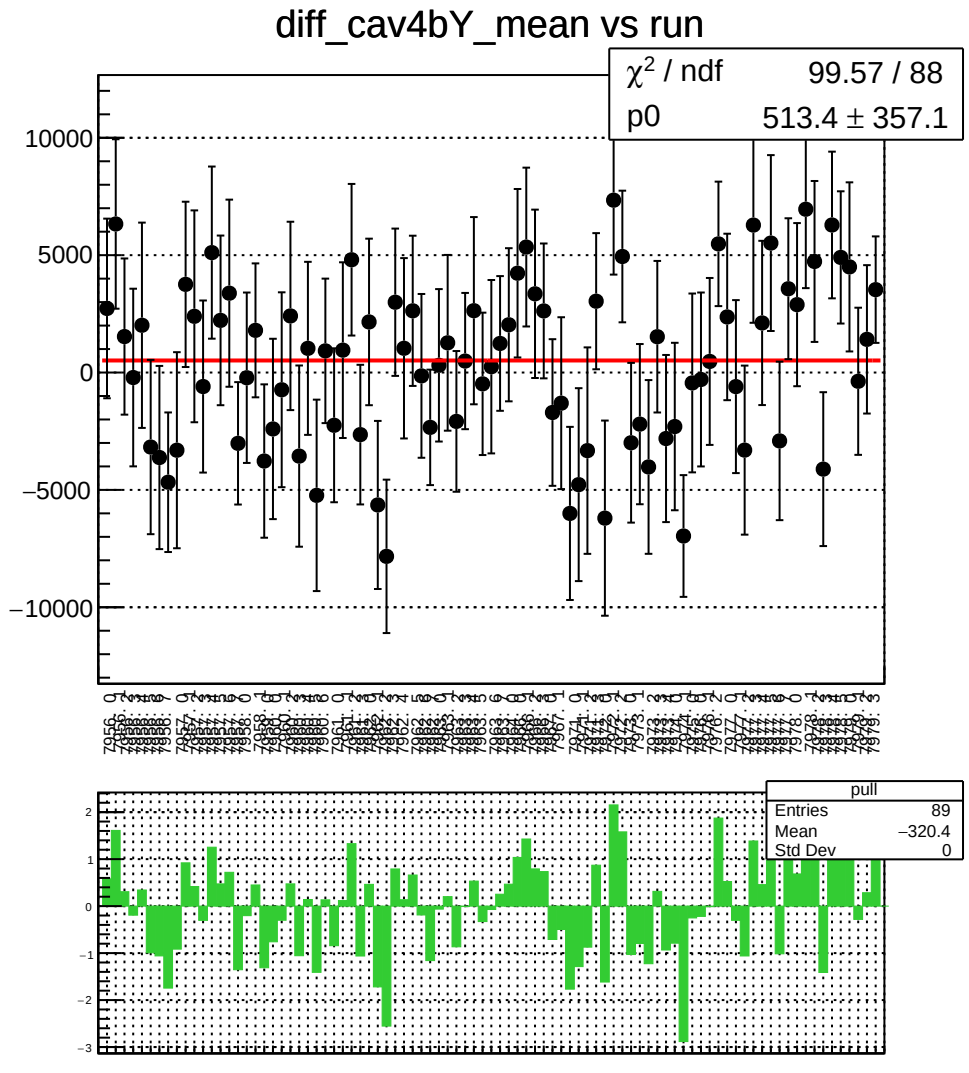

diff_bpm1p03aY_mean vs run
$\chi^2$ / ndf 71.96 / 88
p0 1.056 ± 1.743
pull
Entries 89
Mean 984.8
Std Dev 0

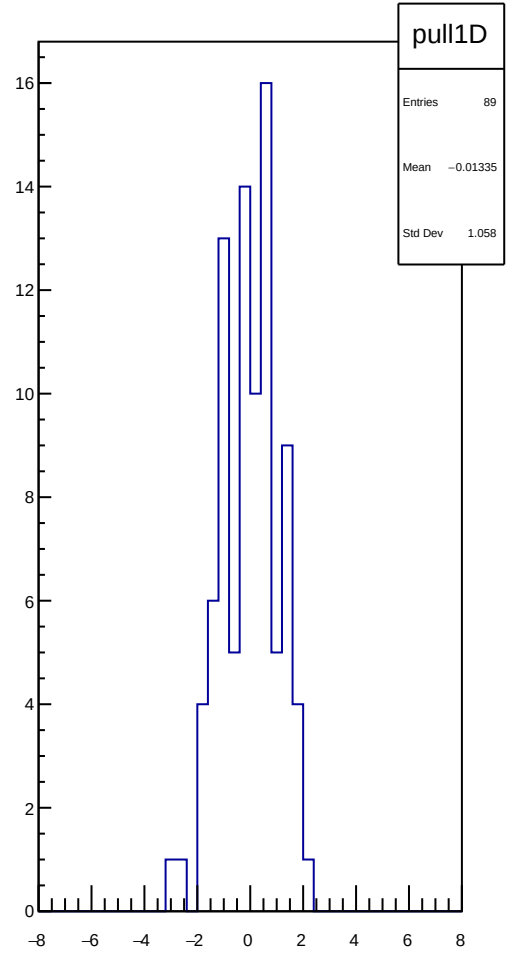

pull1D
Entries 89
Mean 0.004199
Std Dev 0.8992

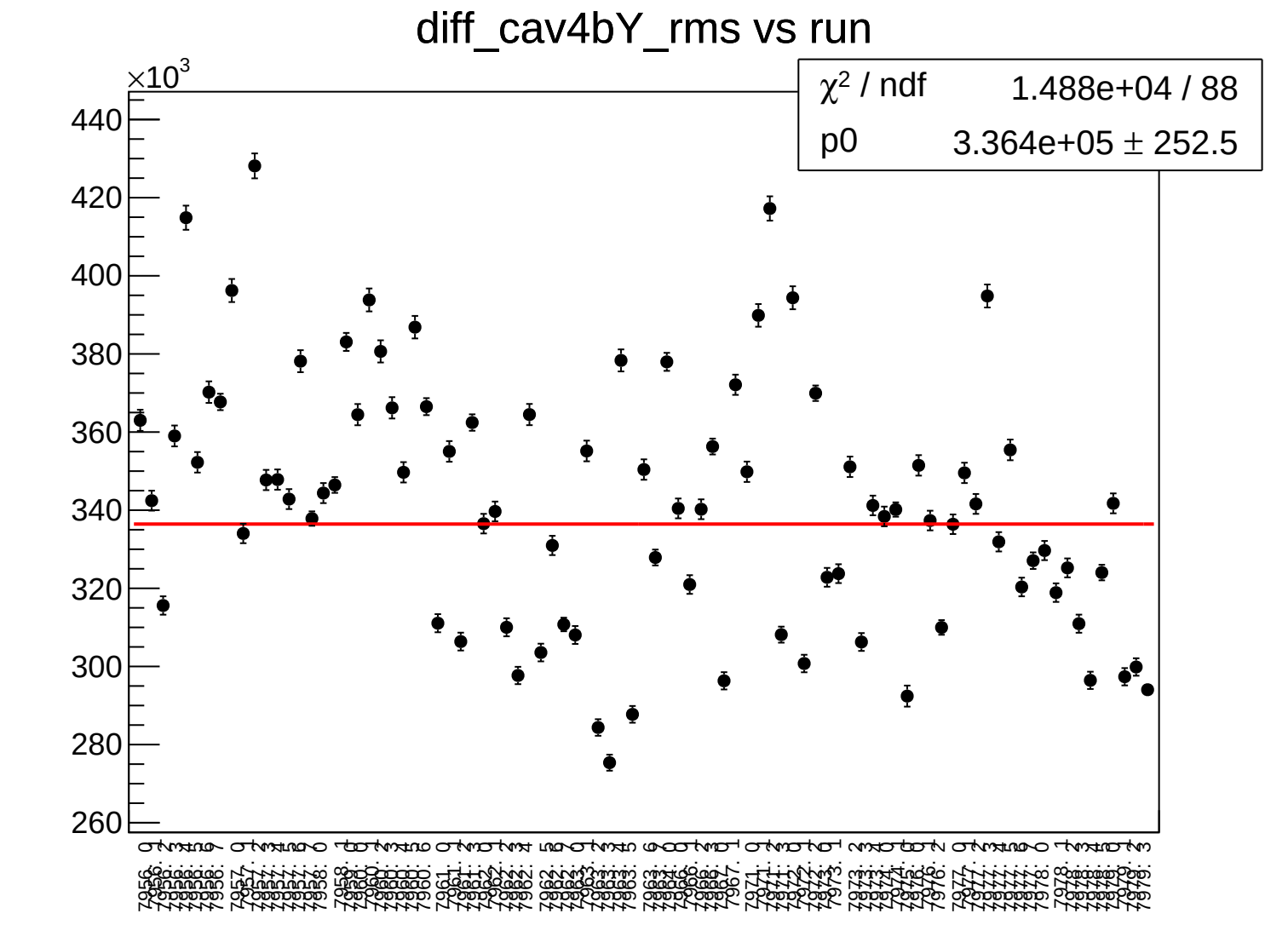

diff_bpm1p03aY_rms vs run
$\chi^2$ / ndf 5980 / 88
p0 1646 ± 1.232
2200
2100
2000
1900
1800
1700
1600
1500

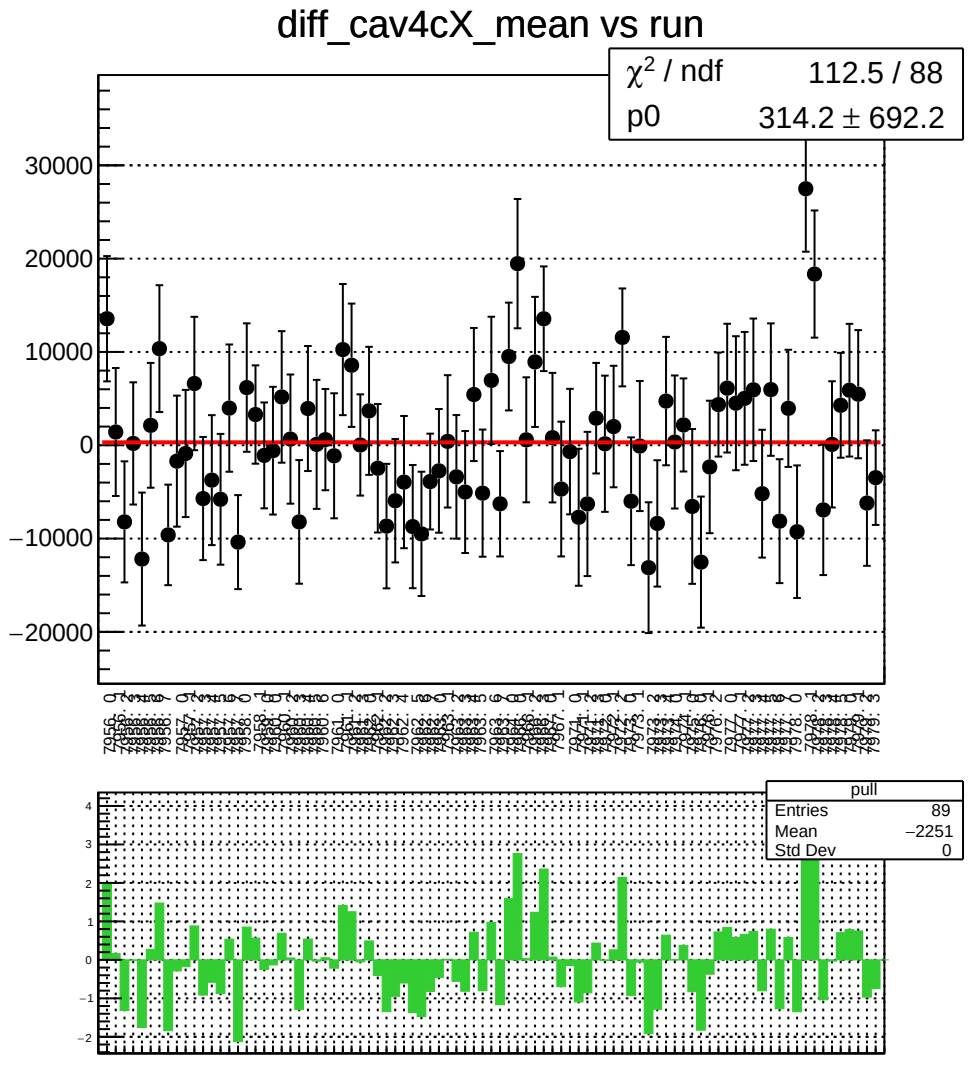

diff_cav4bX_mean vs run
χ² / ndf 112.7 / 88
p0 692 ± 1672
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1.513e+04
Std Dev 0
4
3
2
1
0
−1
−2

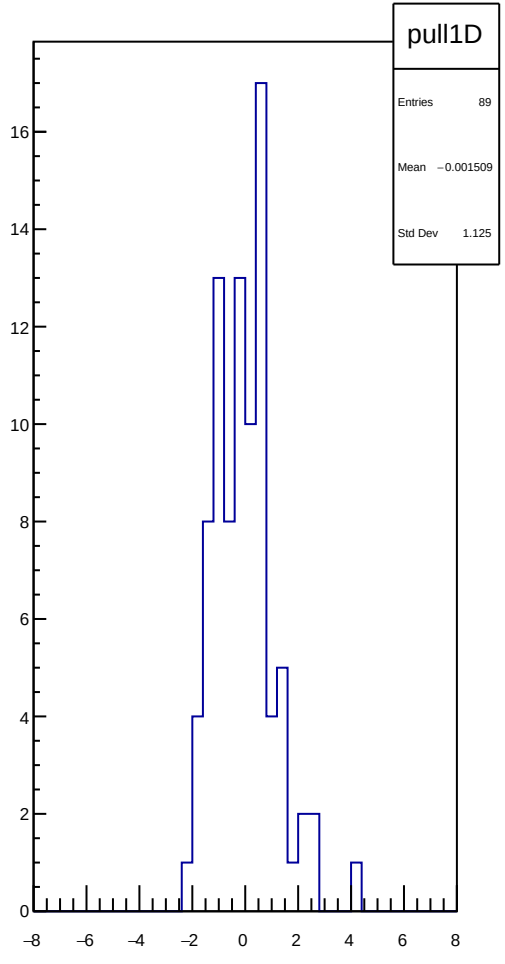

pull1D
Entries 89
Mean 0.0002276
Std Dev 1.126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

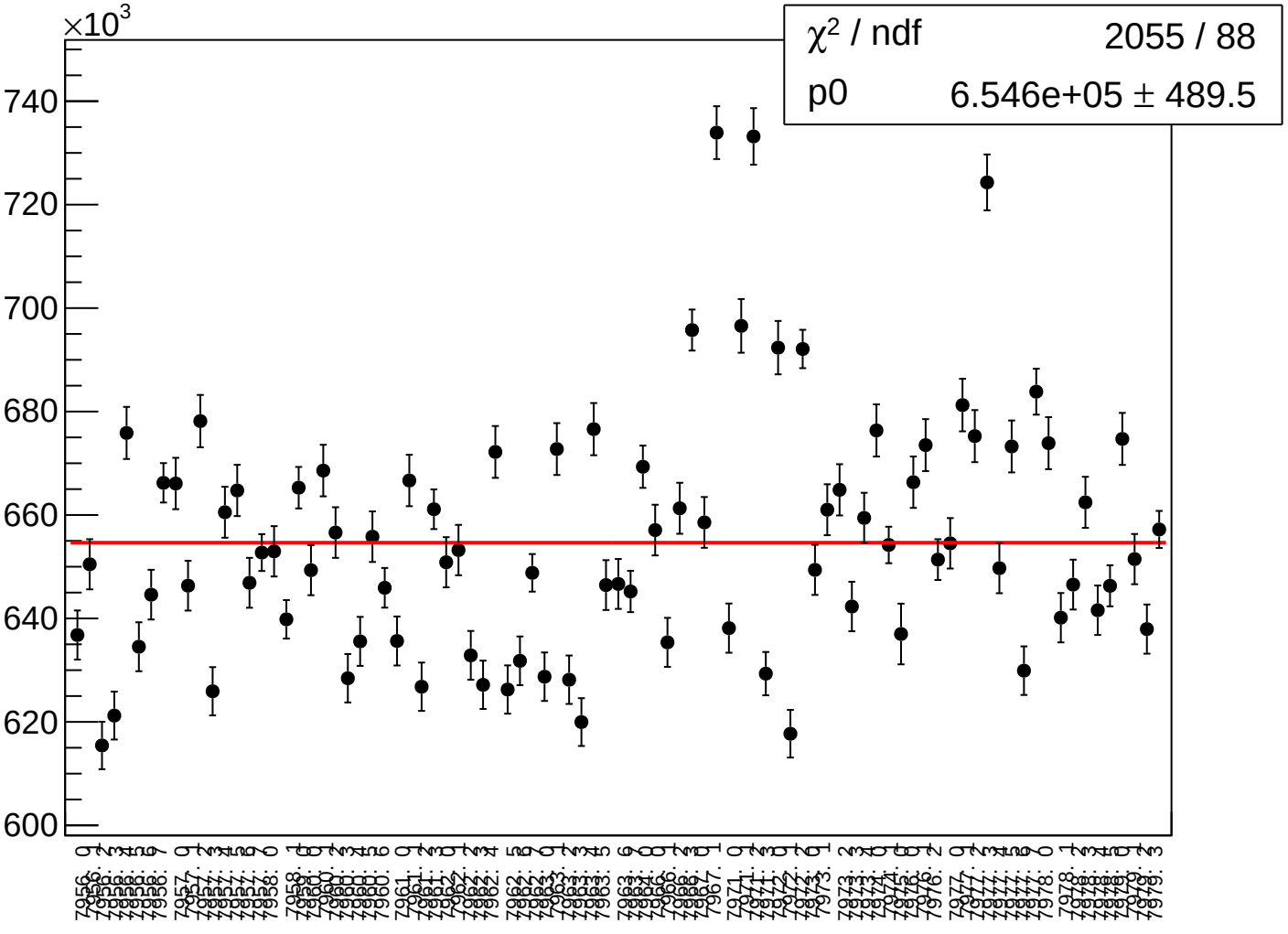

diff_cav4bY_mean vs run
$\chi^2$ / ndf 99.57 / 88
p0 513.4 ± 357.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −320.4
Std Dev 0
2
1
0
−1
−2
−3

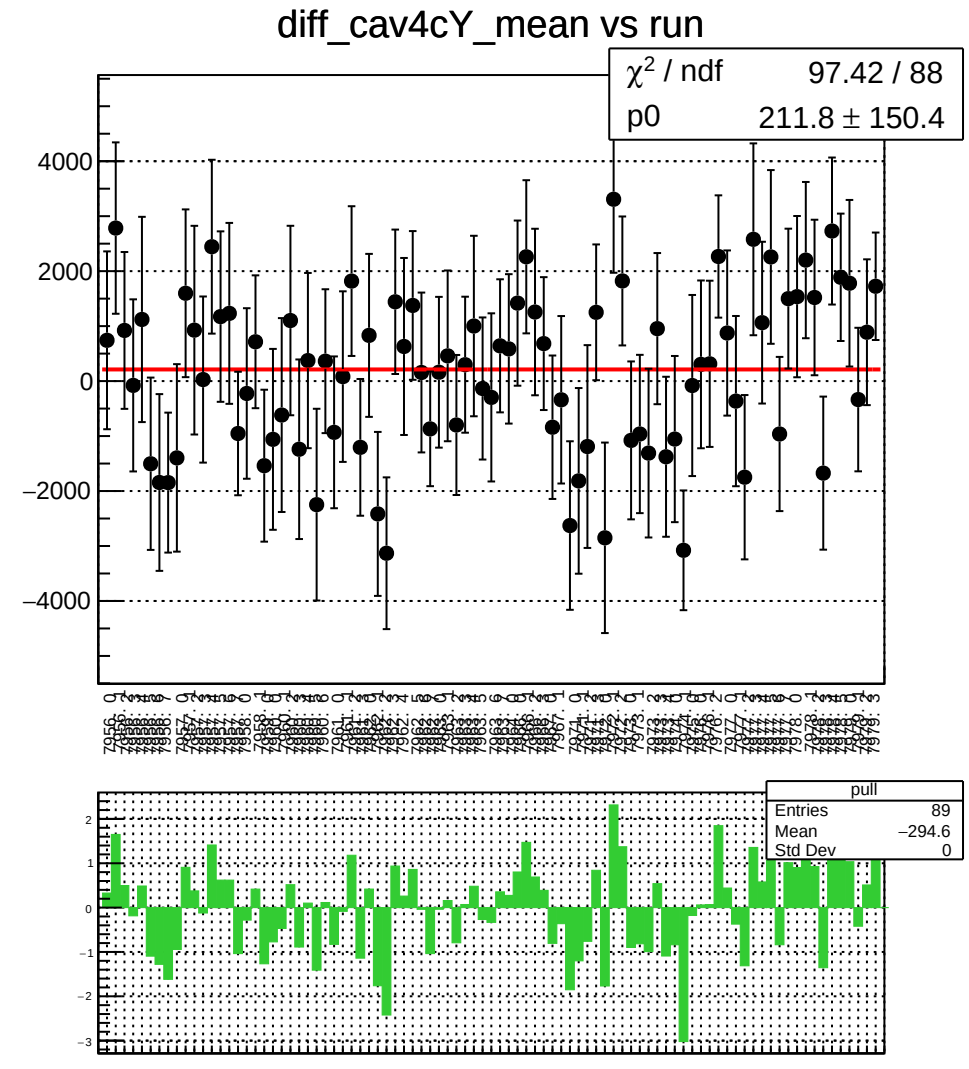

pull1D
Entries 89
Mean −0.01335
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

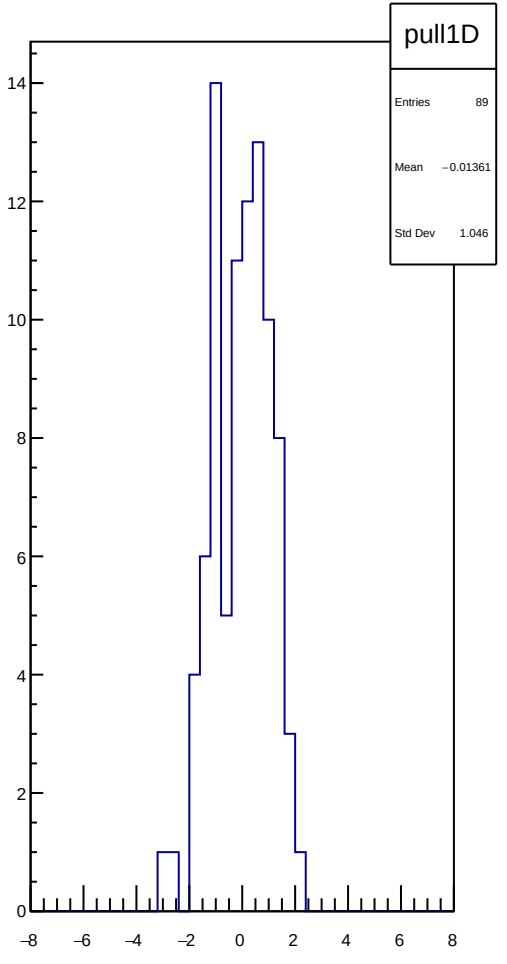

diff_cav4bY_rms vs run
×10^3
440
420
400
380
360
340
320
300
280
260
χ² / ndf 1.488e+04 / 88
p0 3.364e+05 ± 252.5

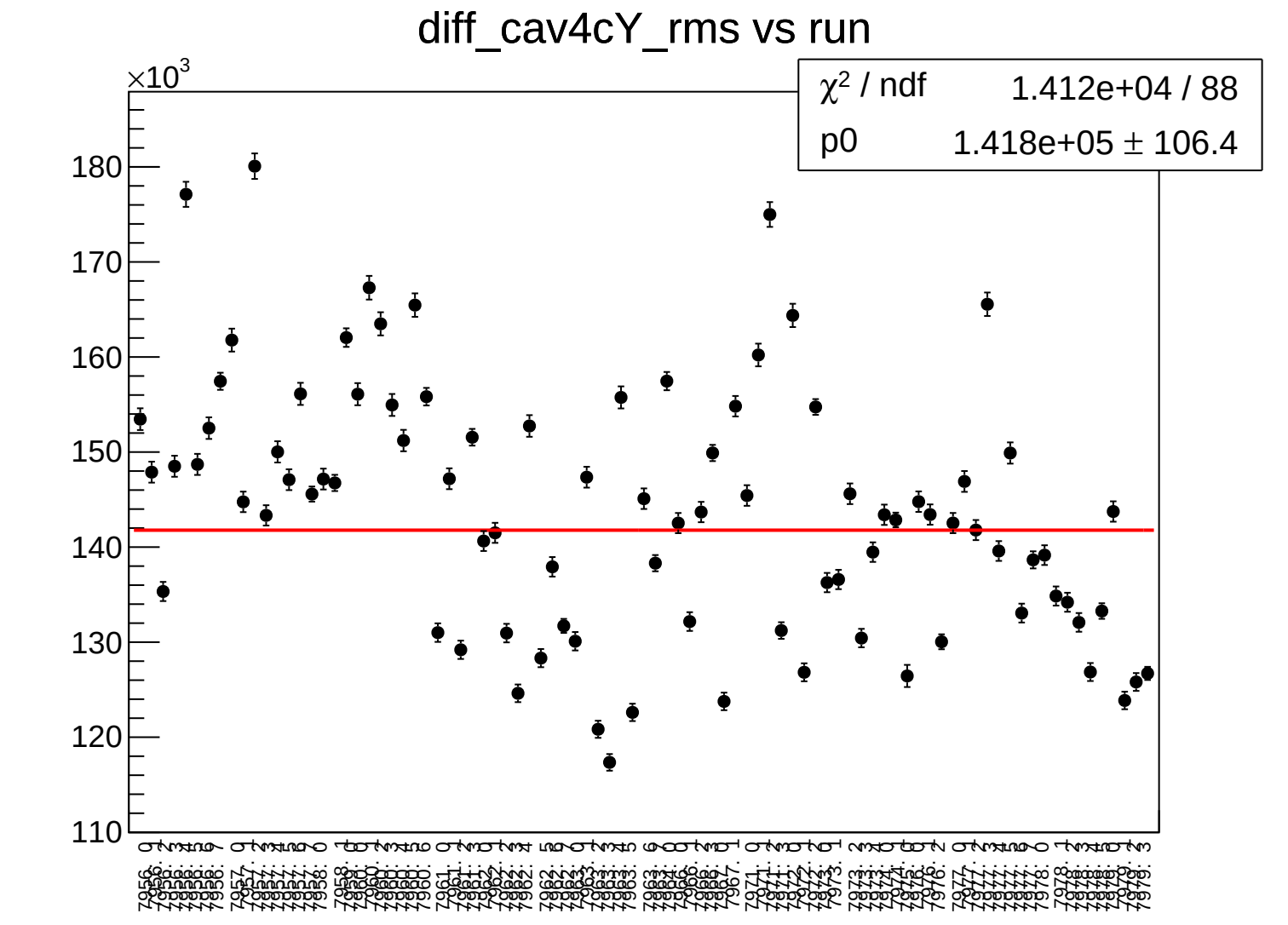

diff_cav4cX_mean vs run
χ² / ndf 112.5 / 88
p0 314.2 ± 692.2
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −2251
Std Dev 0
4
3
2
1
0
−1
−2

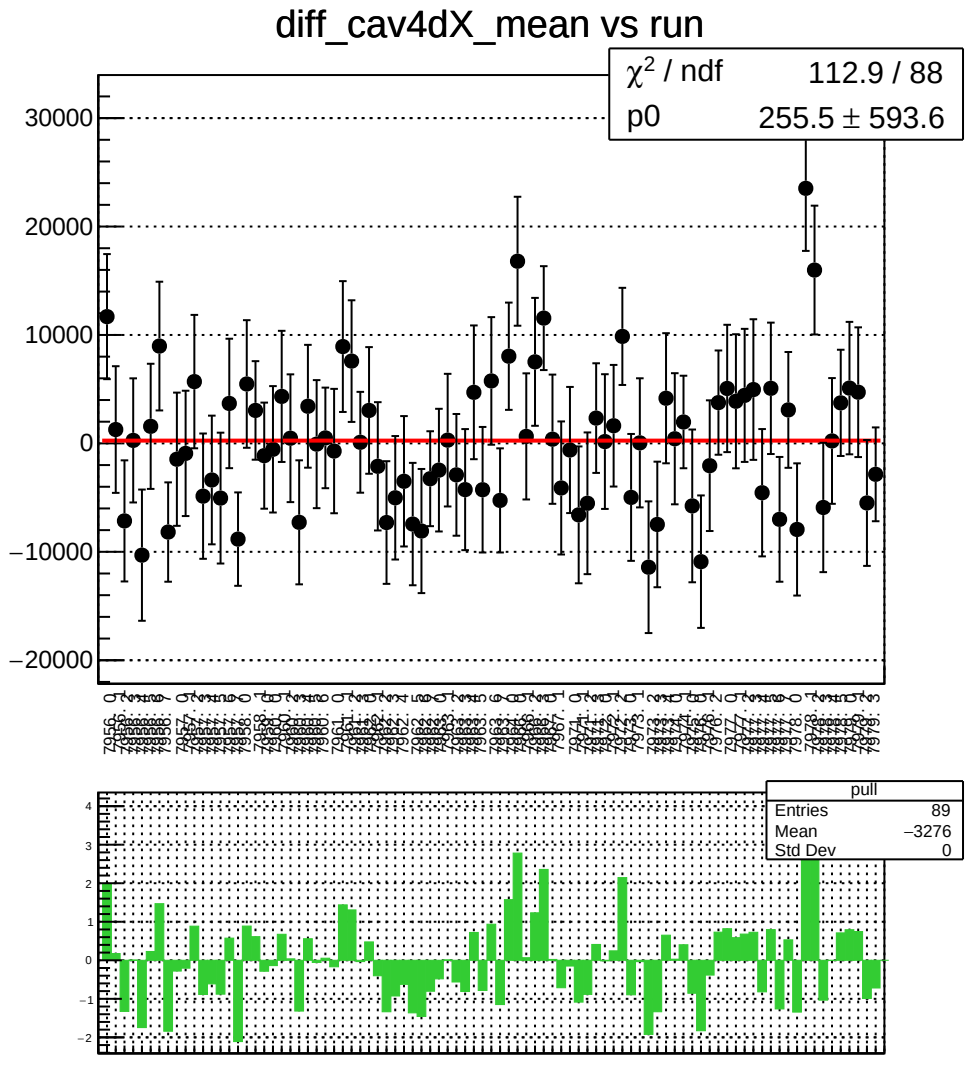

pull1D
Entries 89
Mean −0.001509
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

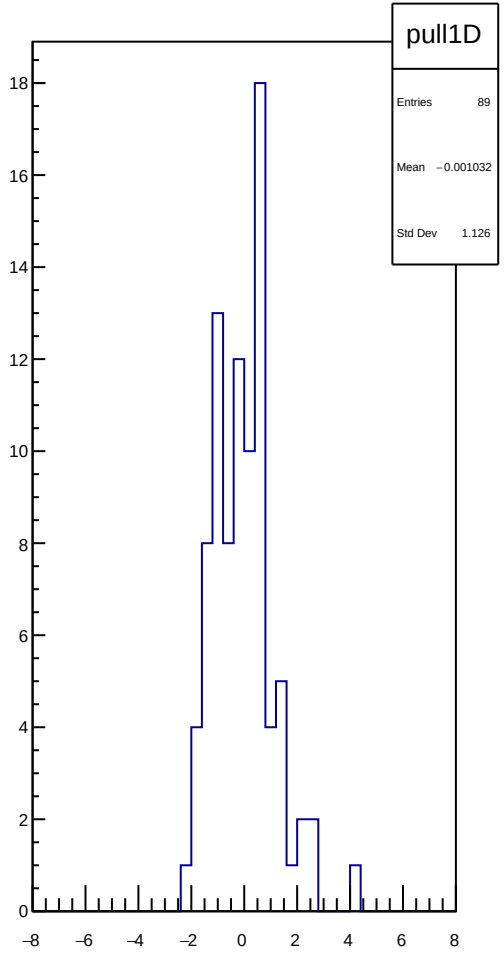

diff_cav4cX_rms vs run
×10^3
740
720
700
680
660
640
620
600
χ² / ndf 2055 / 88
p0 6.546e+05 ± 489.5

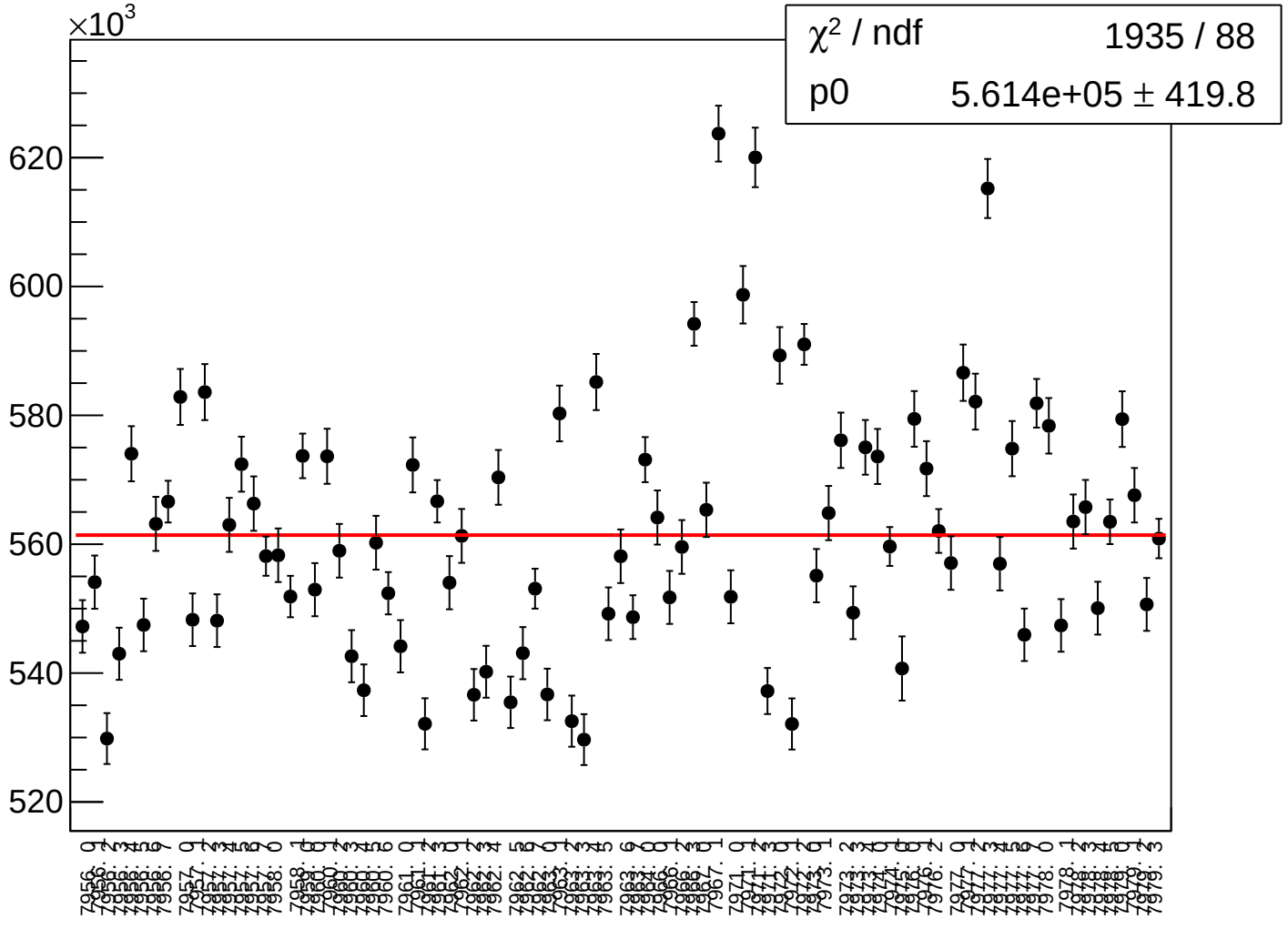

diff_cav4cY_mean vs run
χ² / ndf 97.42 / 88
p0 211.8 ± 150.4
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −294.6
Std Dev 0
2
1
0
−1
−2
−3

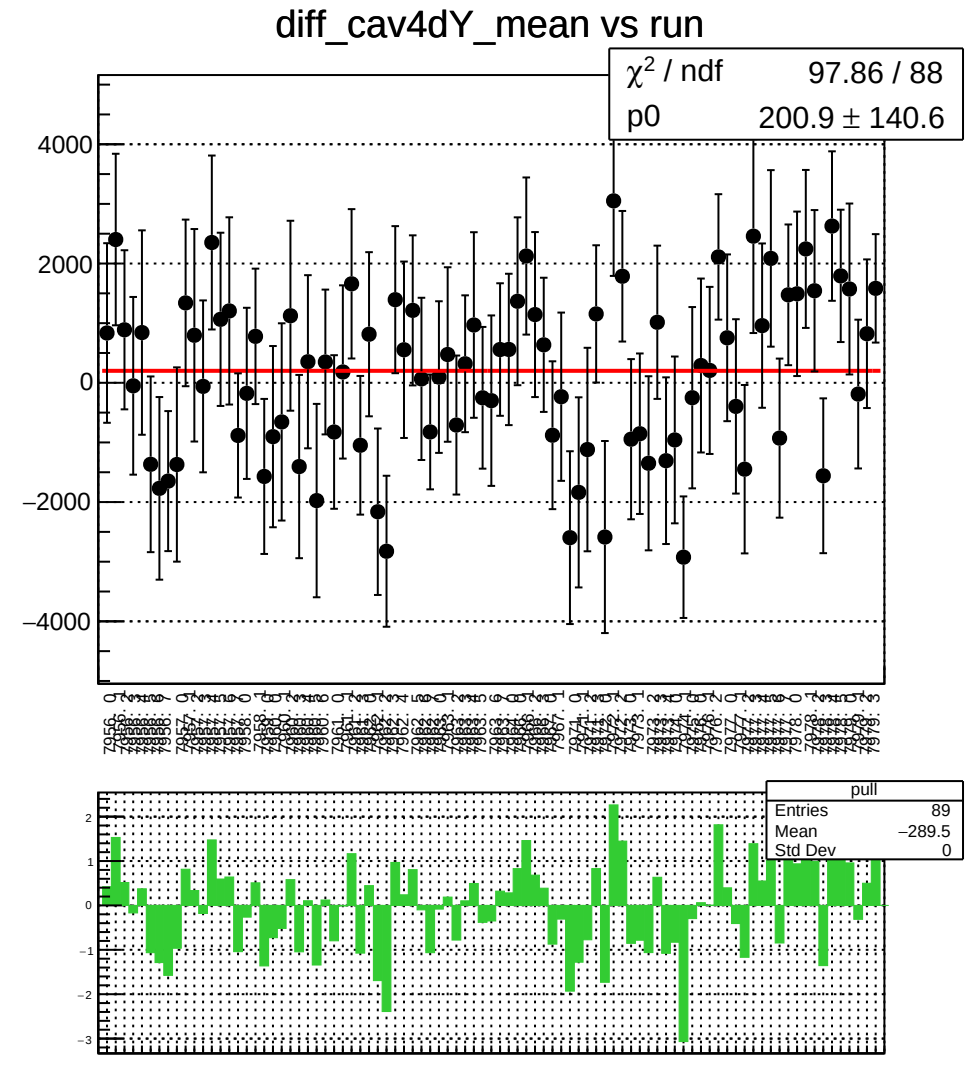

pull1D
Entries 89
Mean −0.01361
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

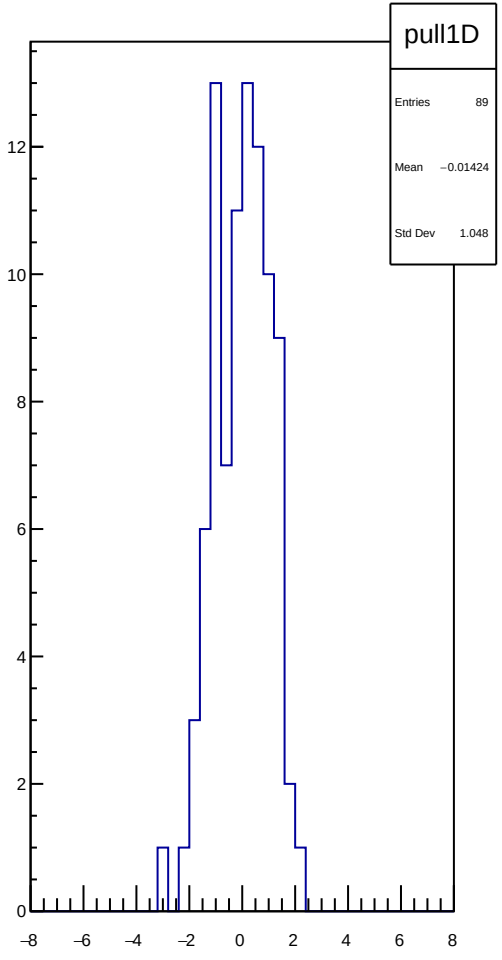

diff_cav4cY_rms vs run
×10^3
χ² / ndf 1.412e+04 / 88
p0 1.418e+05 ± 106.4
180
170
160
150
140
130
120
110

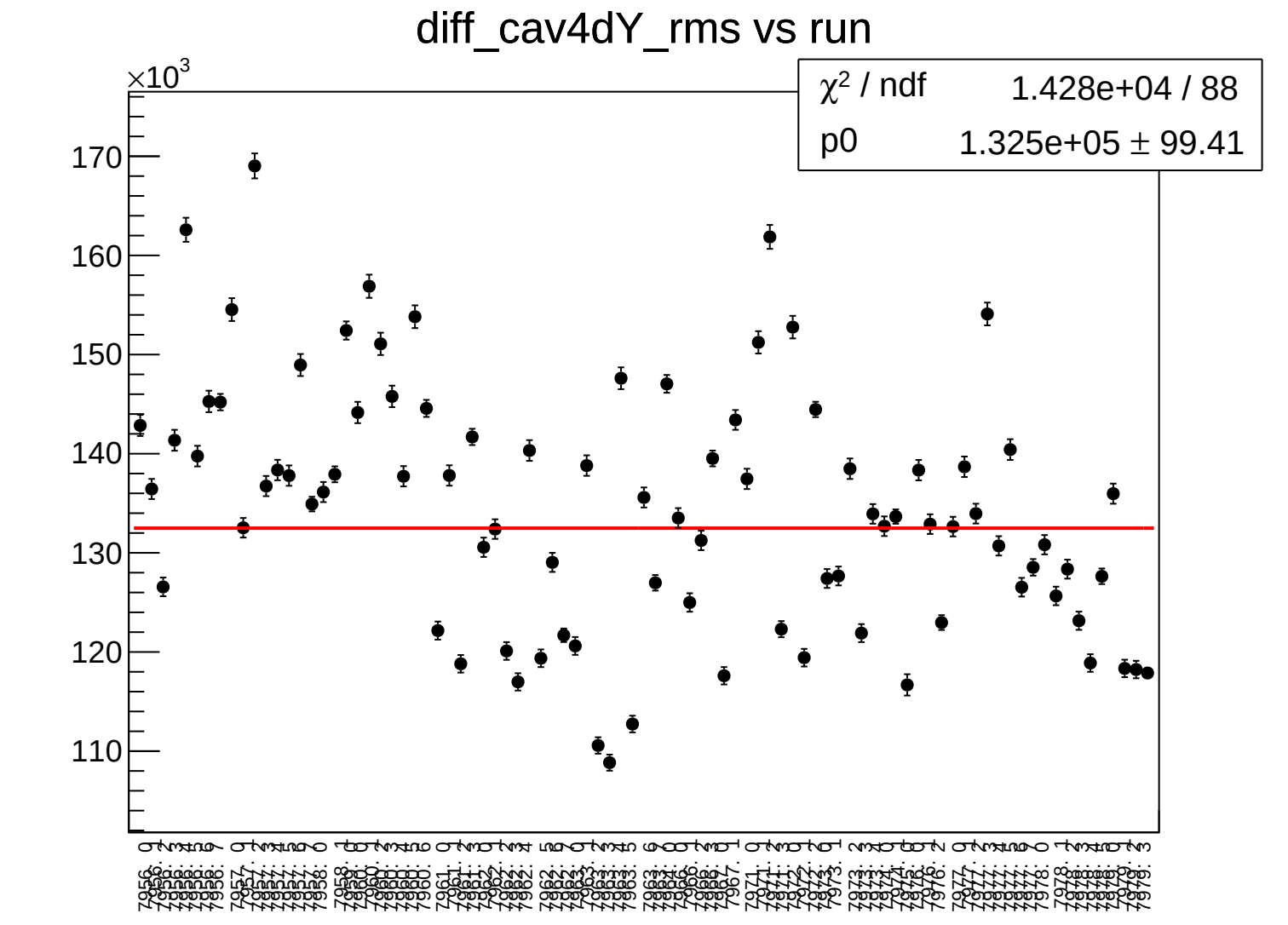

diff_cav4dX_mean vs run
$\chi^2$ / ndf 112.9 / 88
p0 255.5 ± 593.6
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −3276
Std Dev 0
4
3
2
1
0
−1
−2

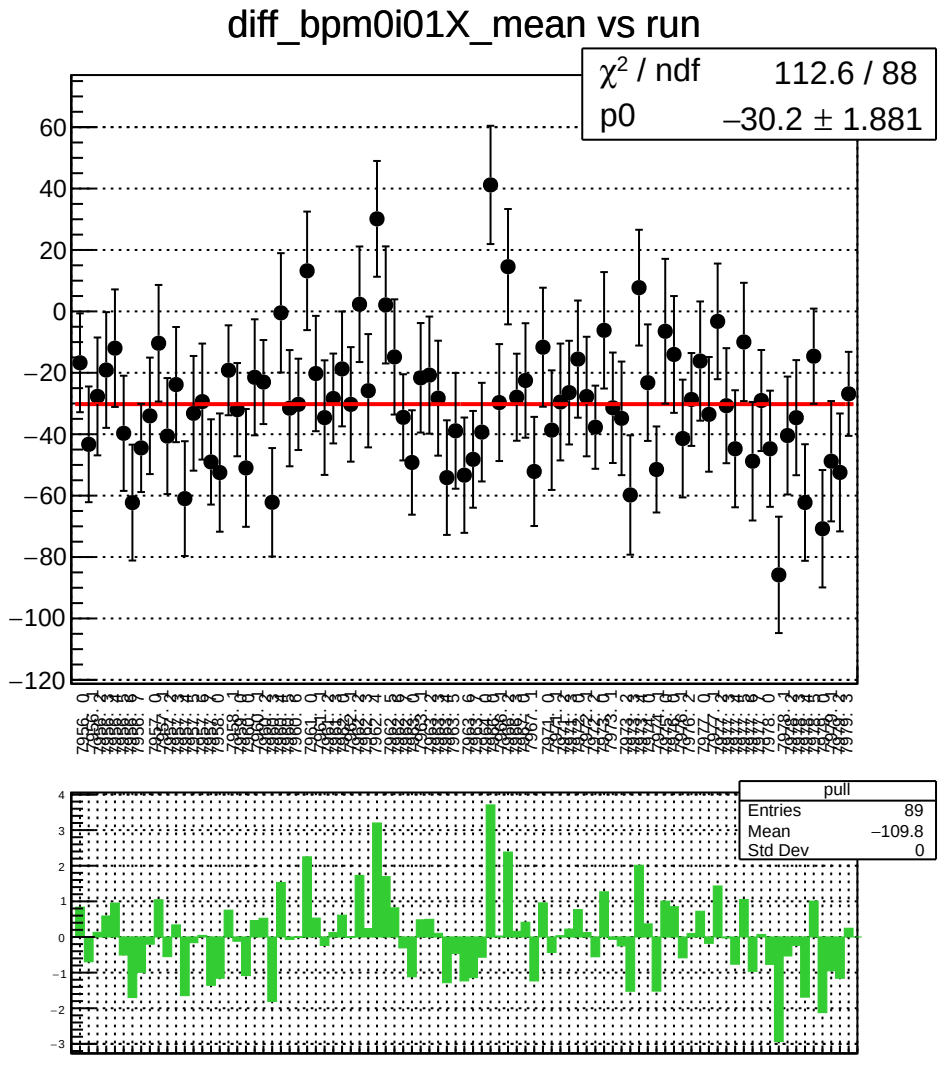

pull1D
Entries 89
Mean −0.001032
Std Dev 1.126
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

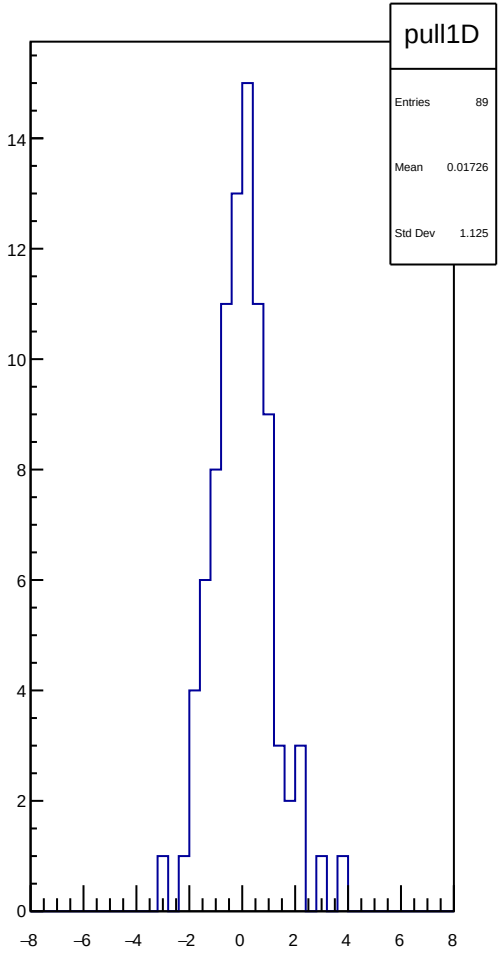

diff_cav4dX_rms vs run
×10^3
620
600
580
560
540
520
χ² / ndf 1935 / 88
p0 5.614e+05 ± 419.8

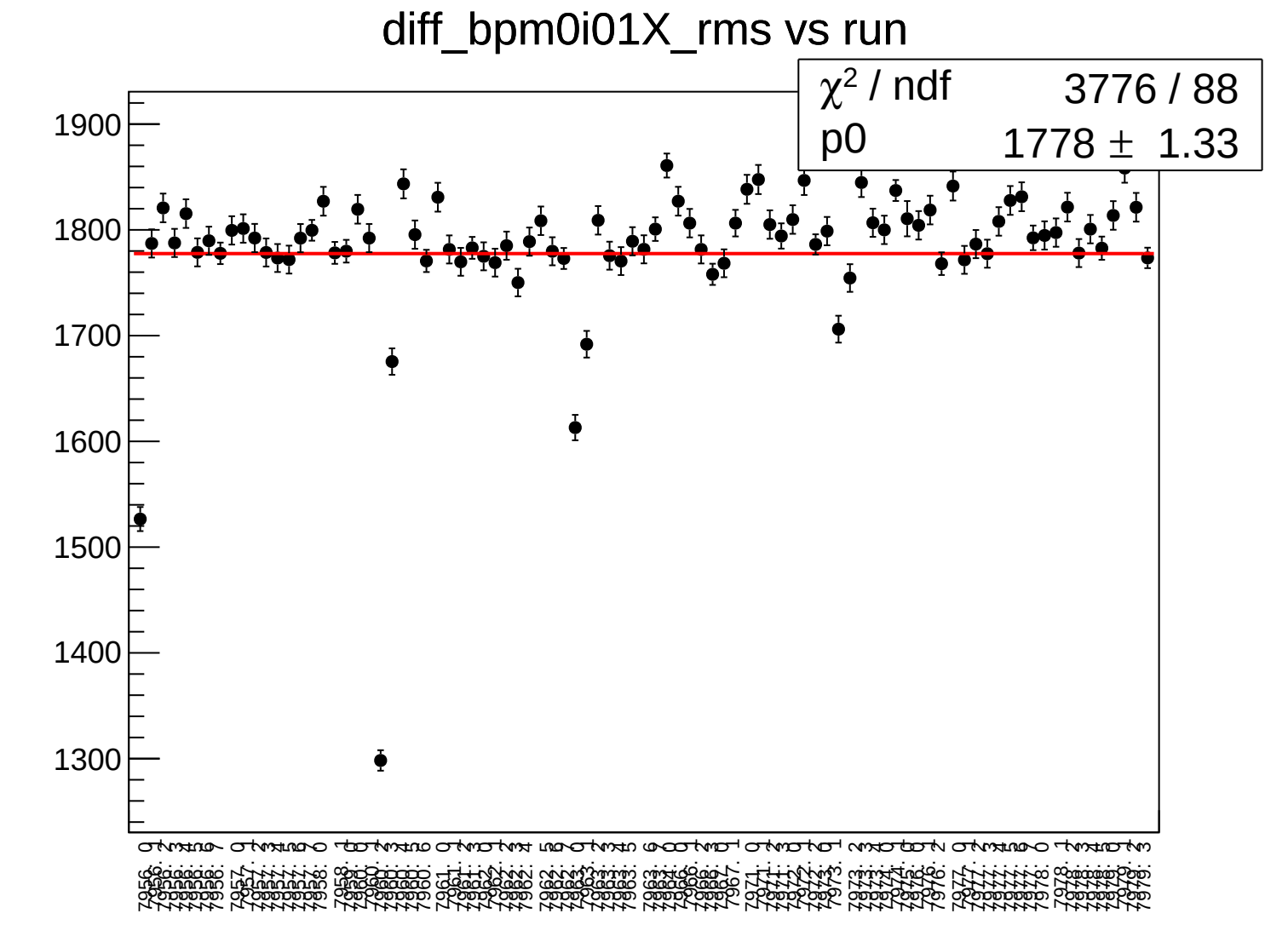

diff_cav4dY_mean vs run
$\chi^2$ / ndf 97.86 / 88
p0 200.9 ± 140.6
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −289.5
Std Dev 0
2
1
0
−1
−2
−3

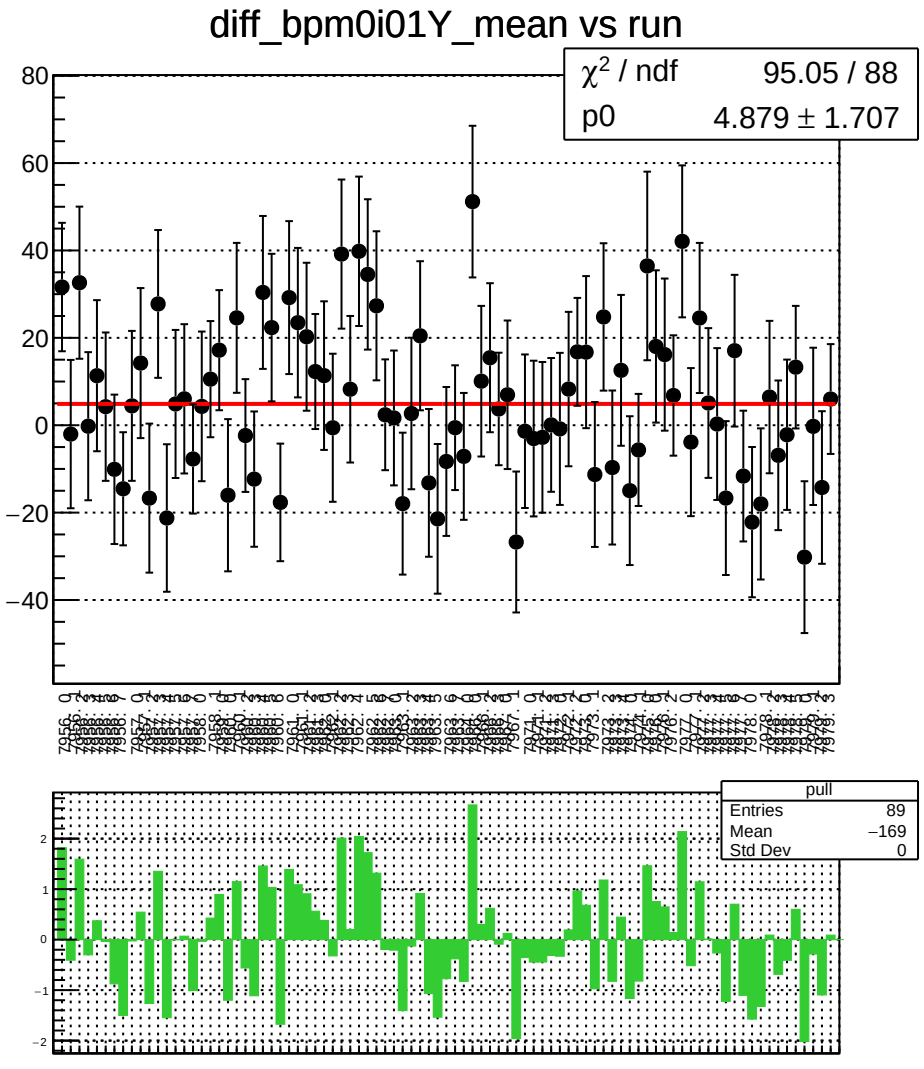

pull1D
Entries 89
Mean −0.01424
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

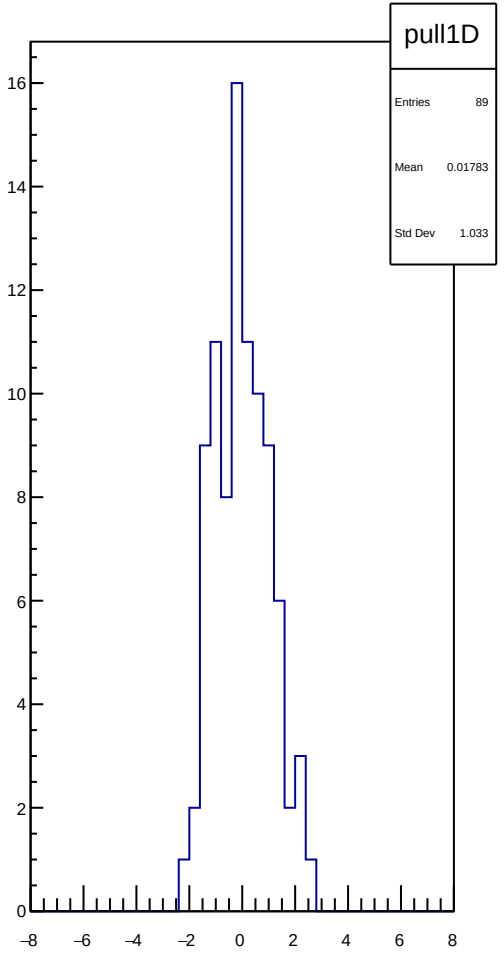

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1.428e+04 / 88
p0 1.325e+05 ± 99.41
170
160
150
140
130
120
110

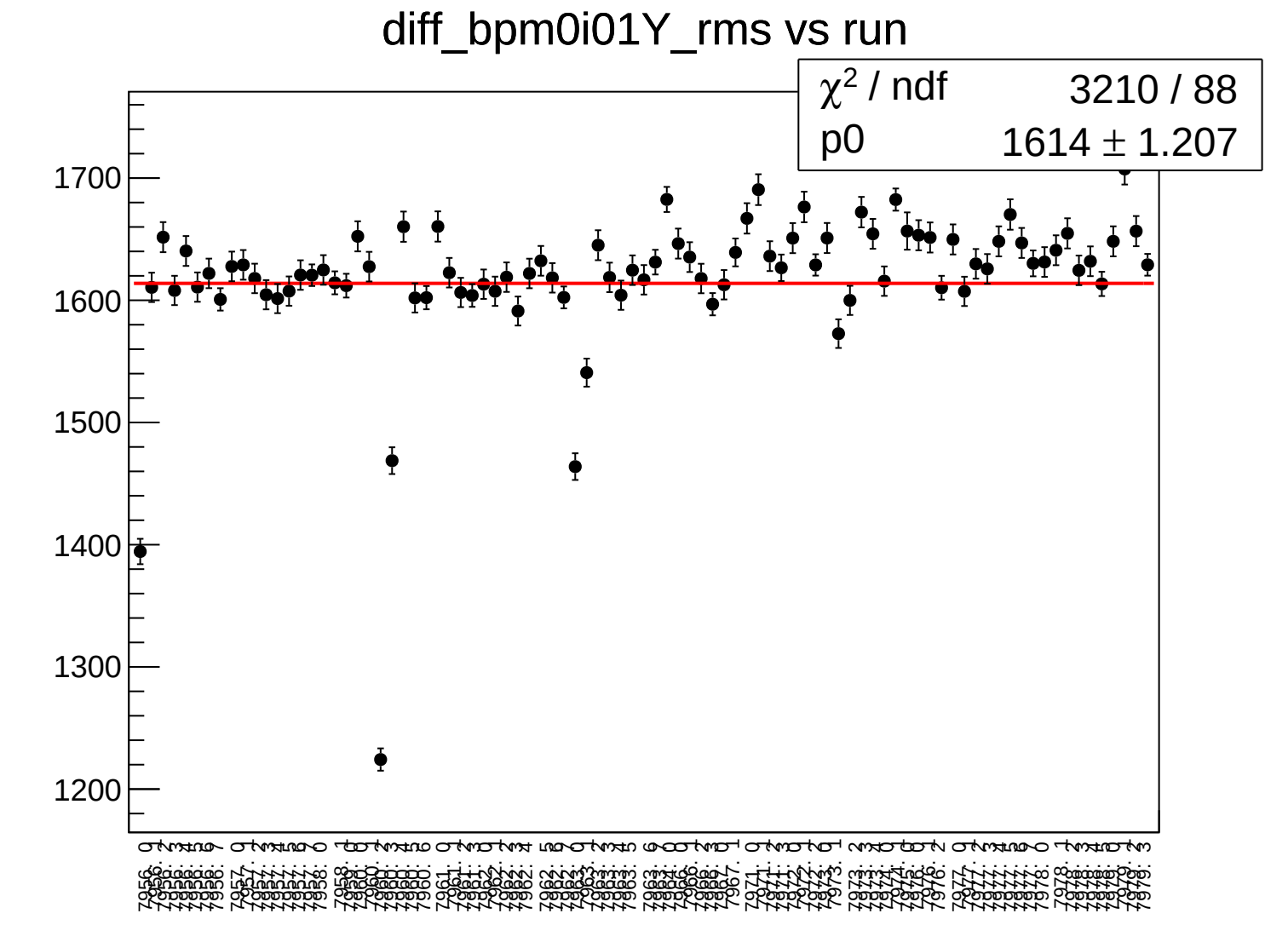

diff_bpm0i01X_mean vs run
χ² / ndf 112.6 / 88
p0 −30.2 ± 1.881
pull
Entries 89
Mean −109.8
Std Dev 0

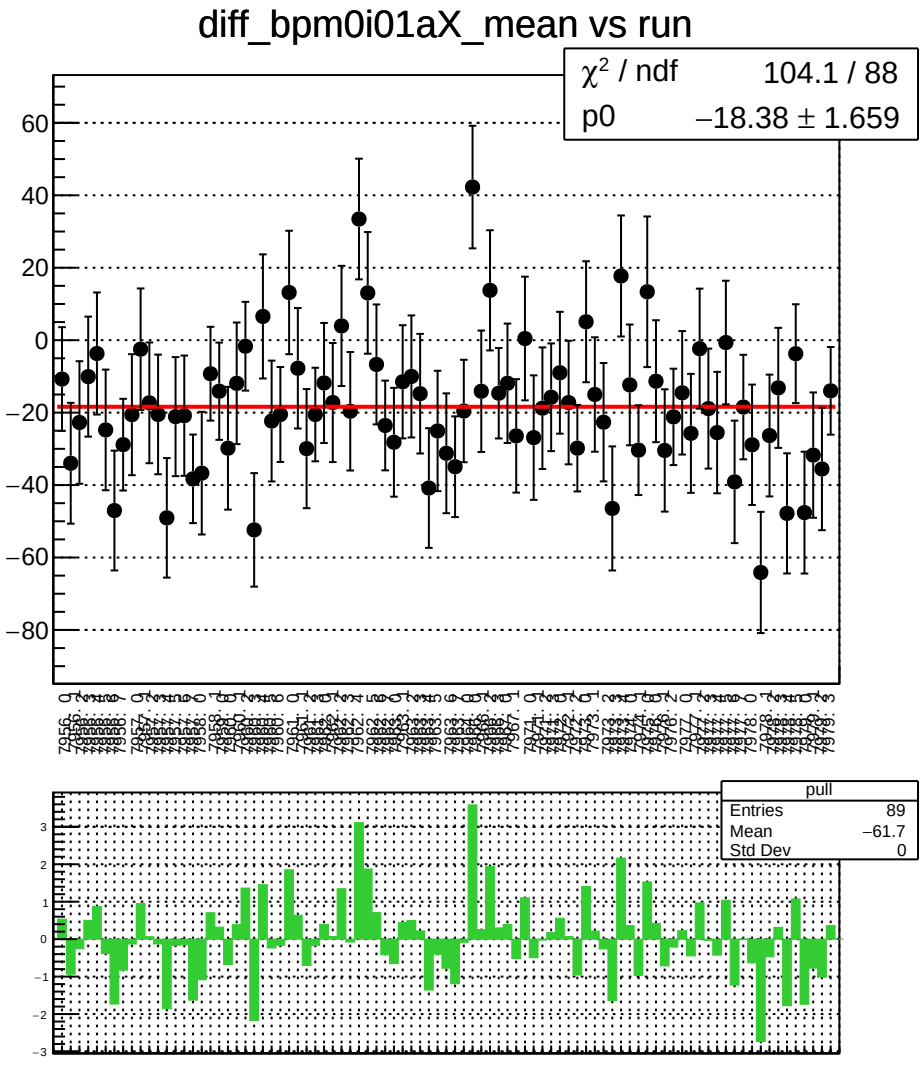

pull1D
Entries 89
Mean 0.01726
Std Dev 1.125

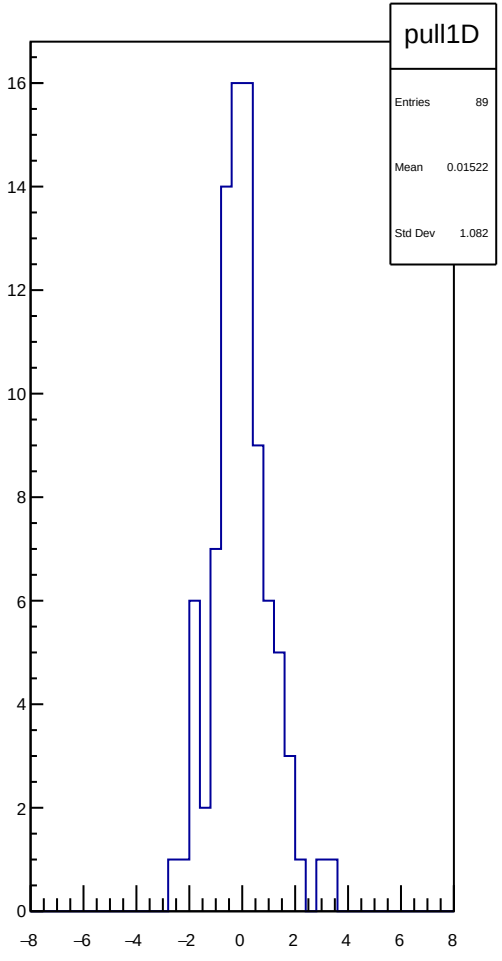

diff_bpm0i01X_rms vs run
χ² / ndf 3776 / 88
p0 1778 ± 1.33
1900
1800
1700
1600
1500
1400
1300

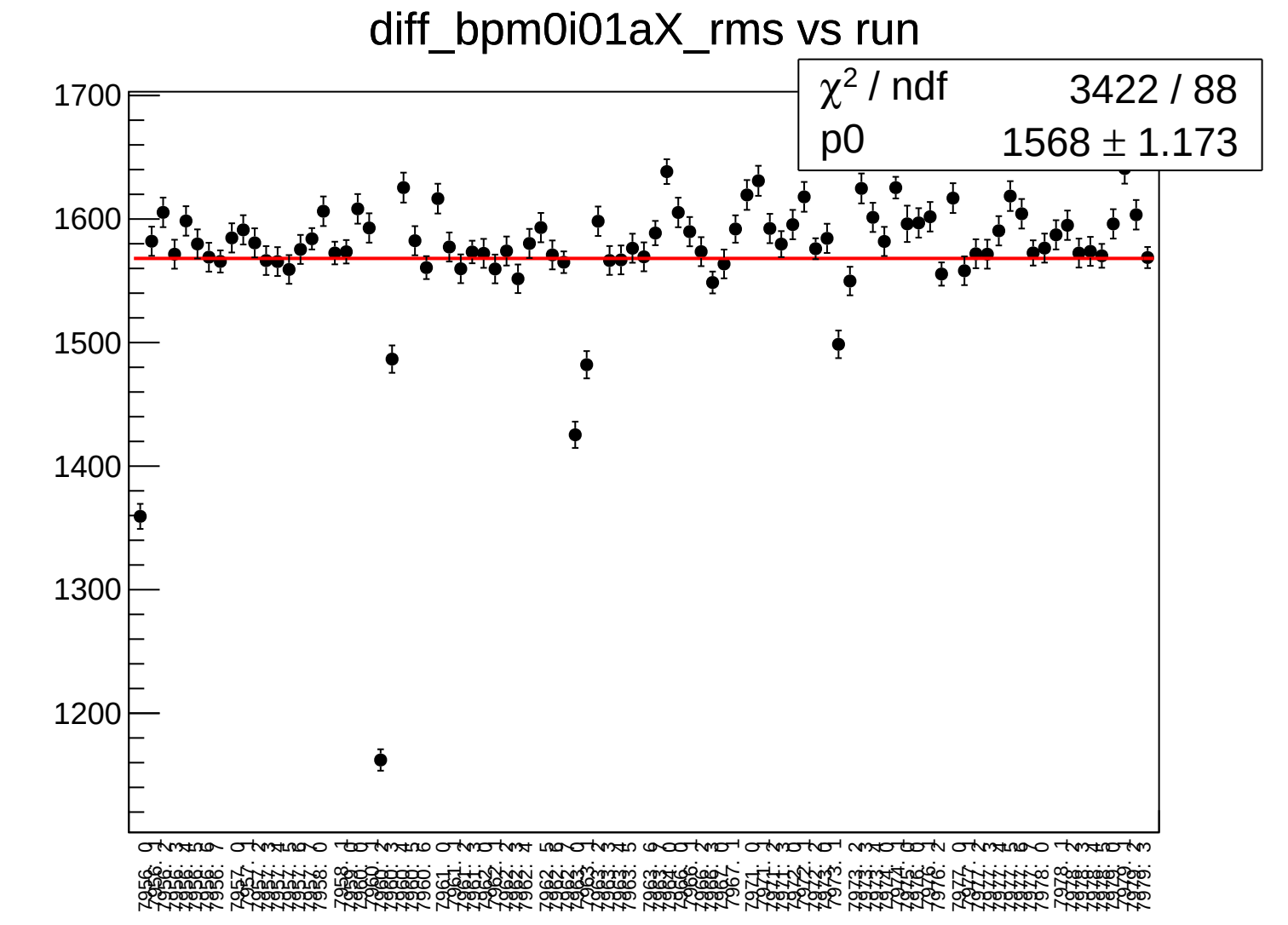

diff_bpm0i01Y_mean vs run
$\chi^2$ / ndf 95.05 / 88
p0 4.879 ± 1.707
pull
Entries 89
Mean −169
Std Dev 0

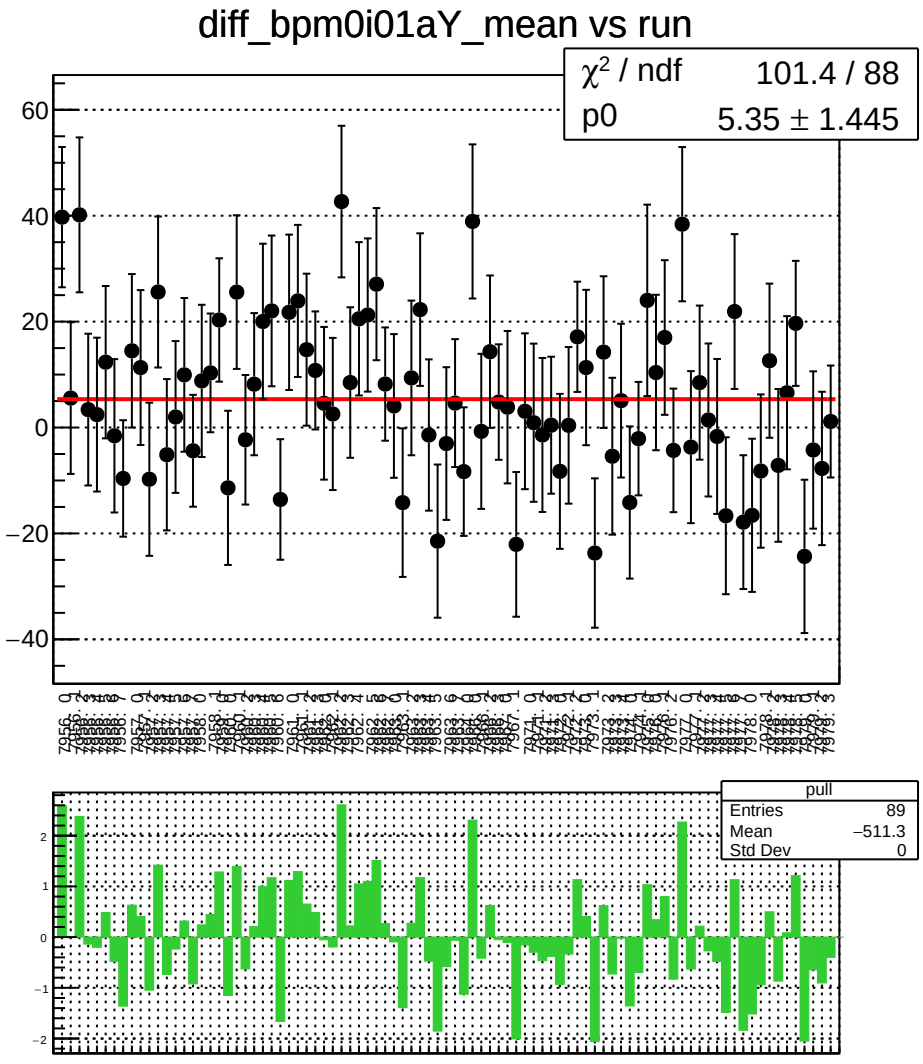

pull1D
Entries 89
Mean 0.01783
Std Dev 1.033

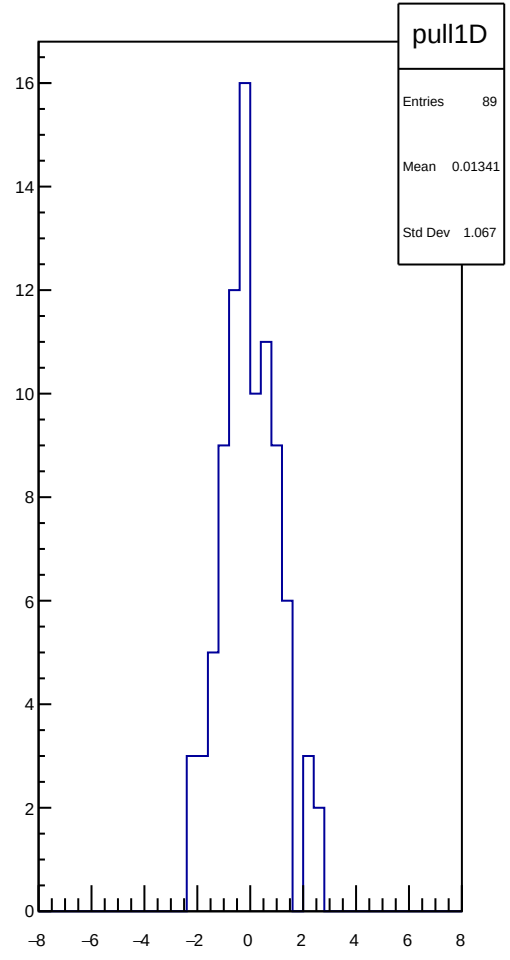

diff_bpm0i01Y_rms vs run
χ² / ndf 3210 / 88
p0 1614 ± 1.207
1700
1600
1500
1400
1300
1200

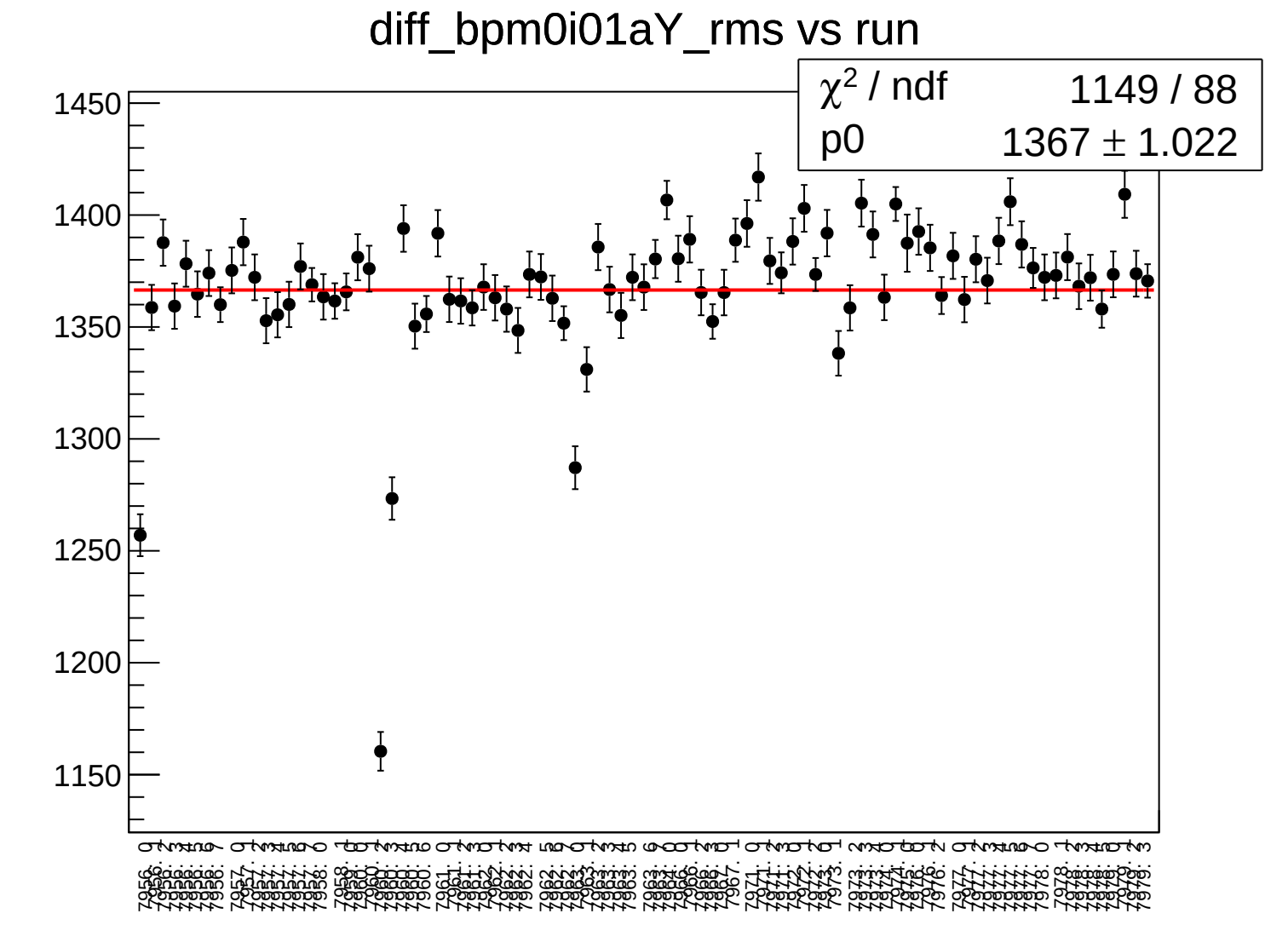

diff_bpm0i01aX_mean vs run
χ² / ndf 104.1 / 88
p0 −18.38 ± 1.659
pull
Entries 89
Mean −61.7
Std Dev 0

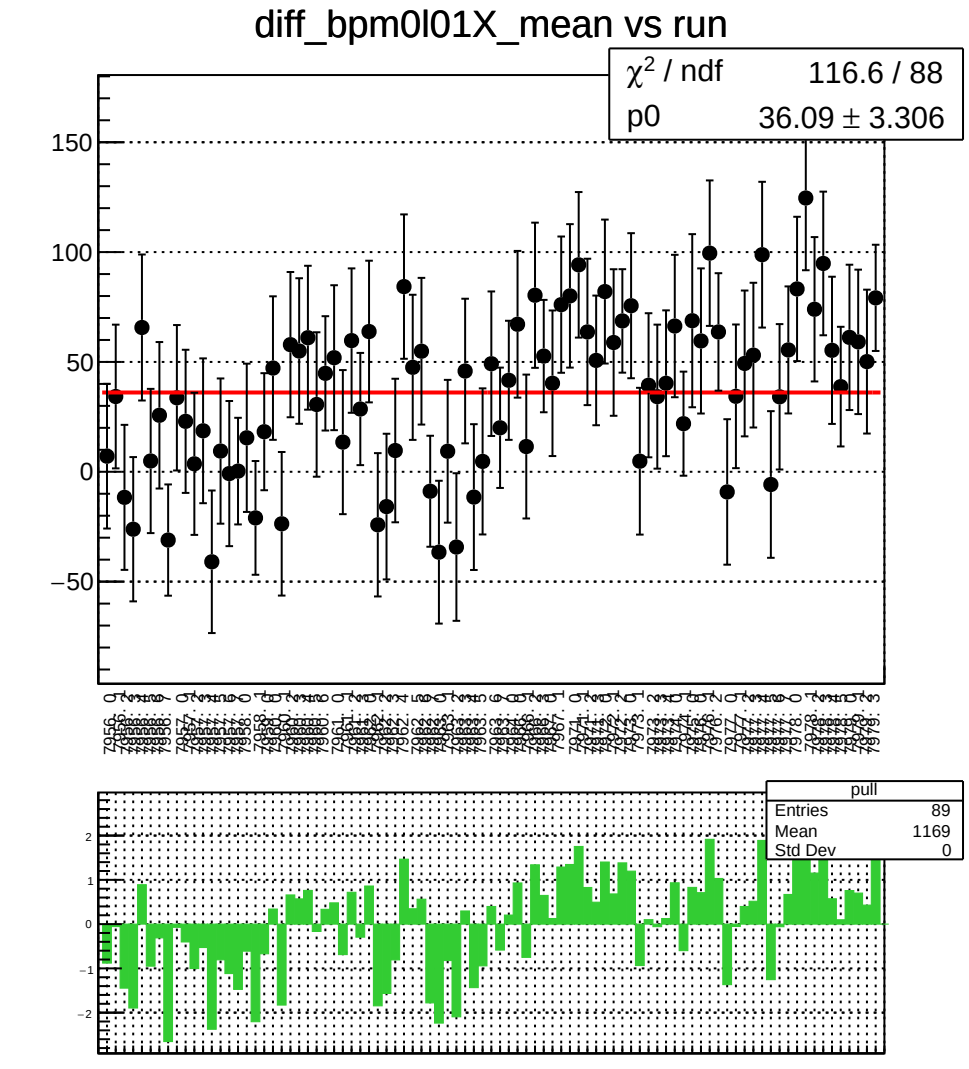

pull1D
Entries 89
Mean 0.01522
Std Dev 1.082

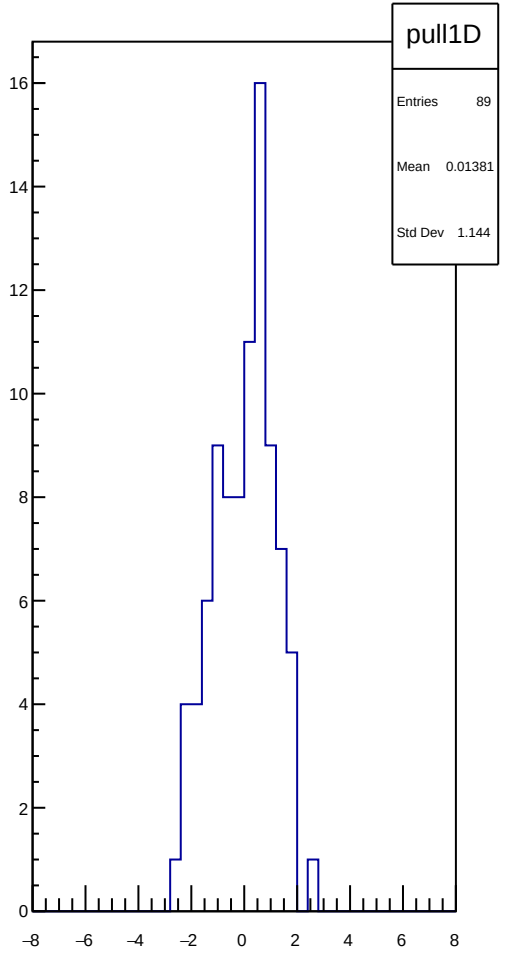

diff_bpm0i01aX_rms vs run
χ² / ndf 3422 / 88
p0 1568 ± 1.173
1700
1600
1500
1400
1300
1200

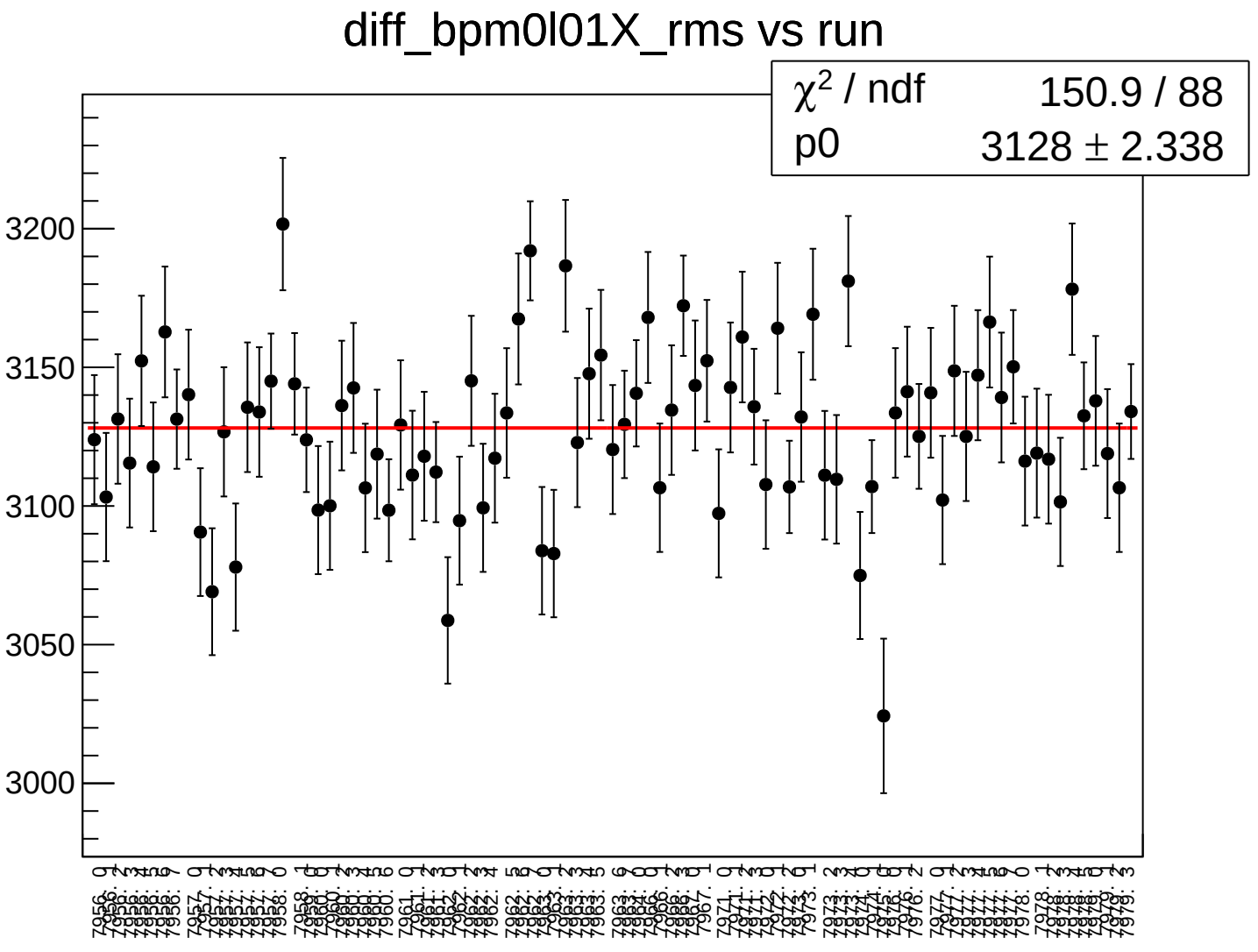

diff_bpm0i01aY_mean vs run
χ² / ndf 101.4 / 88
p0 5.35 ± 1.445
pull
Entries 89
Mean −511.3
Std Dev 0

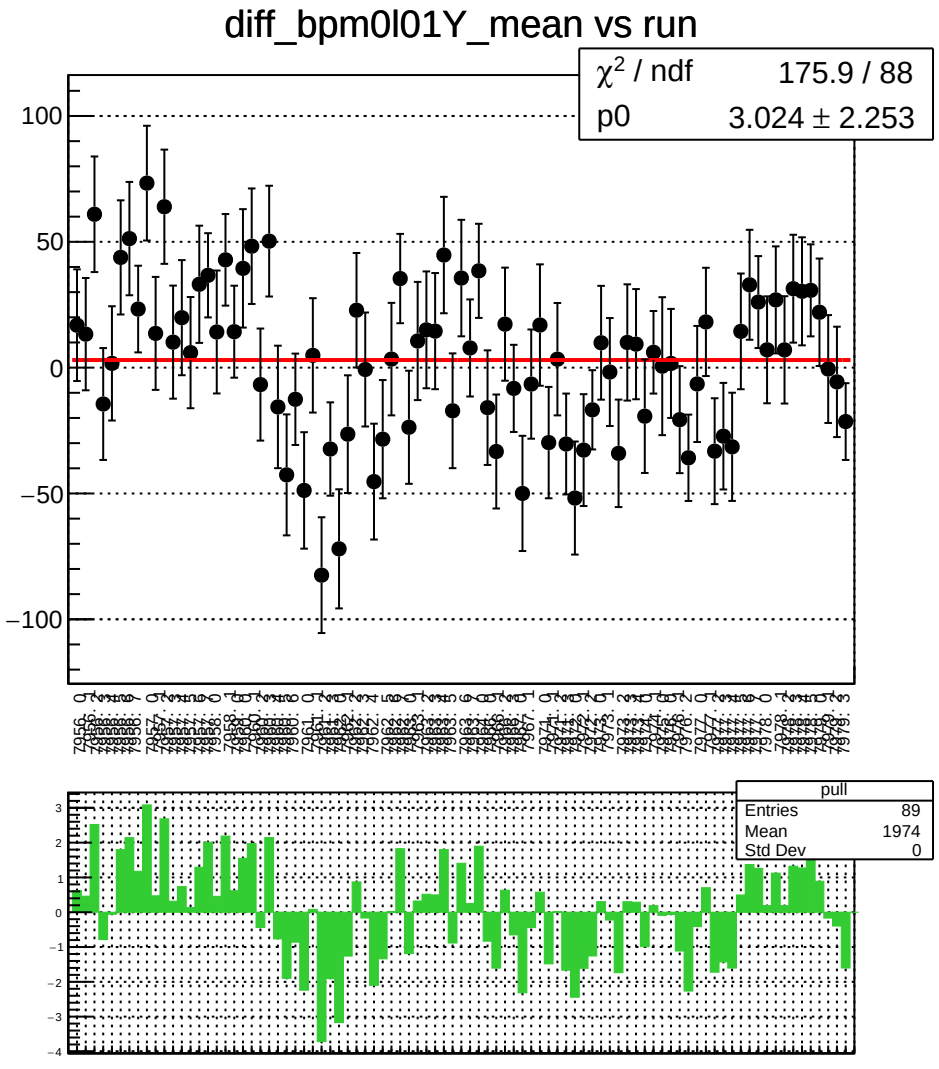

pull1D
Entries 89
Mean 0.01341
Std Dev 1.067

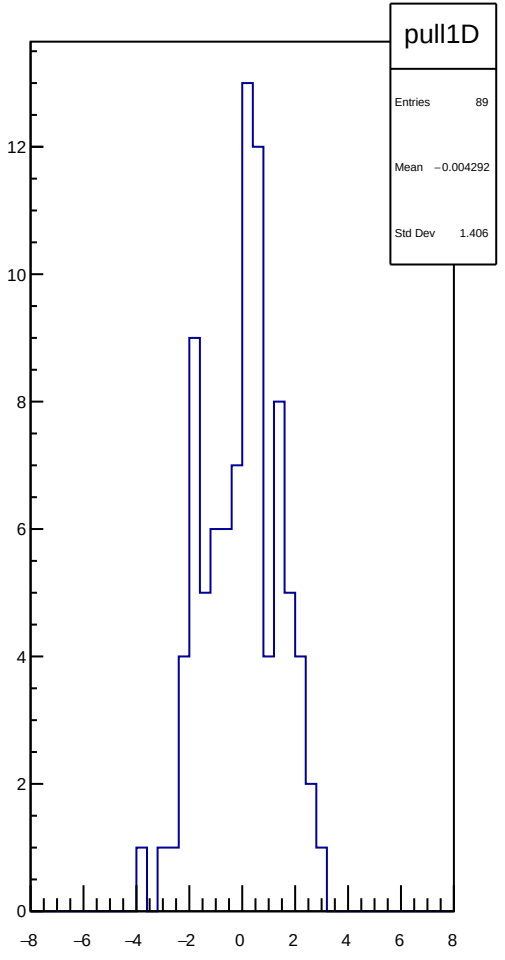

diff_bpm0i01aY_rms vs run
χ² / ndf 1149 / 88
p0 1367 ± 1.022
1450
1400
1350
1300
1250
1200
1150

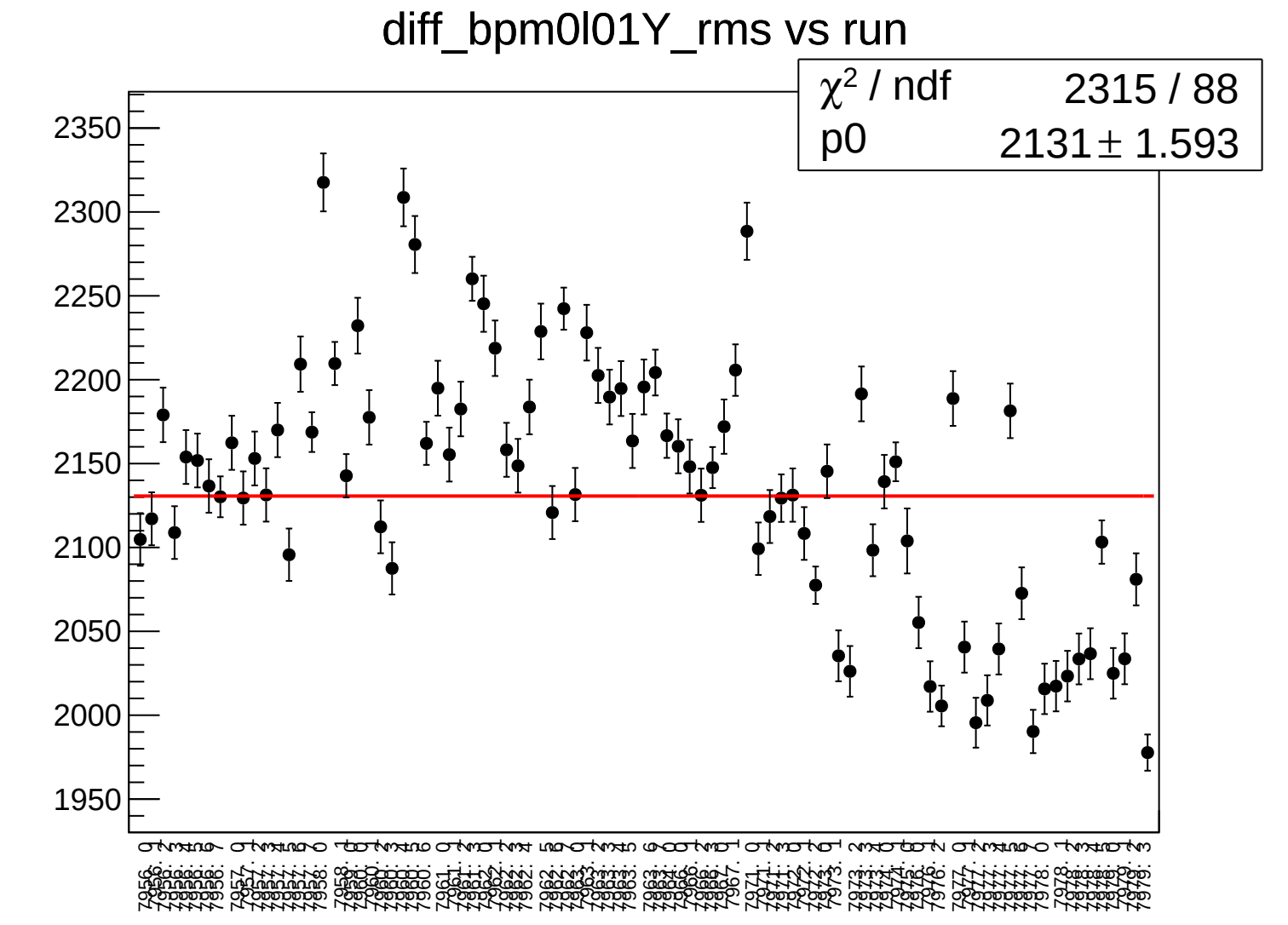

diff_bpm0l01X_mean vs run
χ² / ndf 116.6 / 88
p0 36.09 ± 3.306
150
100
50
0
−50
pull
Entries 89
Mean 1169
Std Dev 0
2
1
0
−1
−2

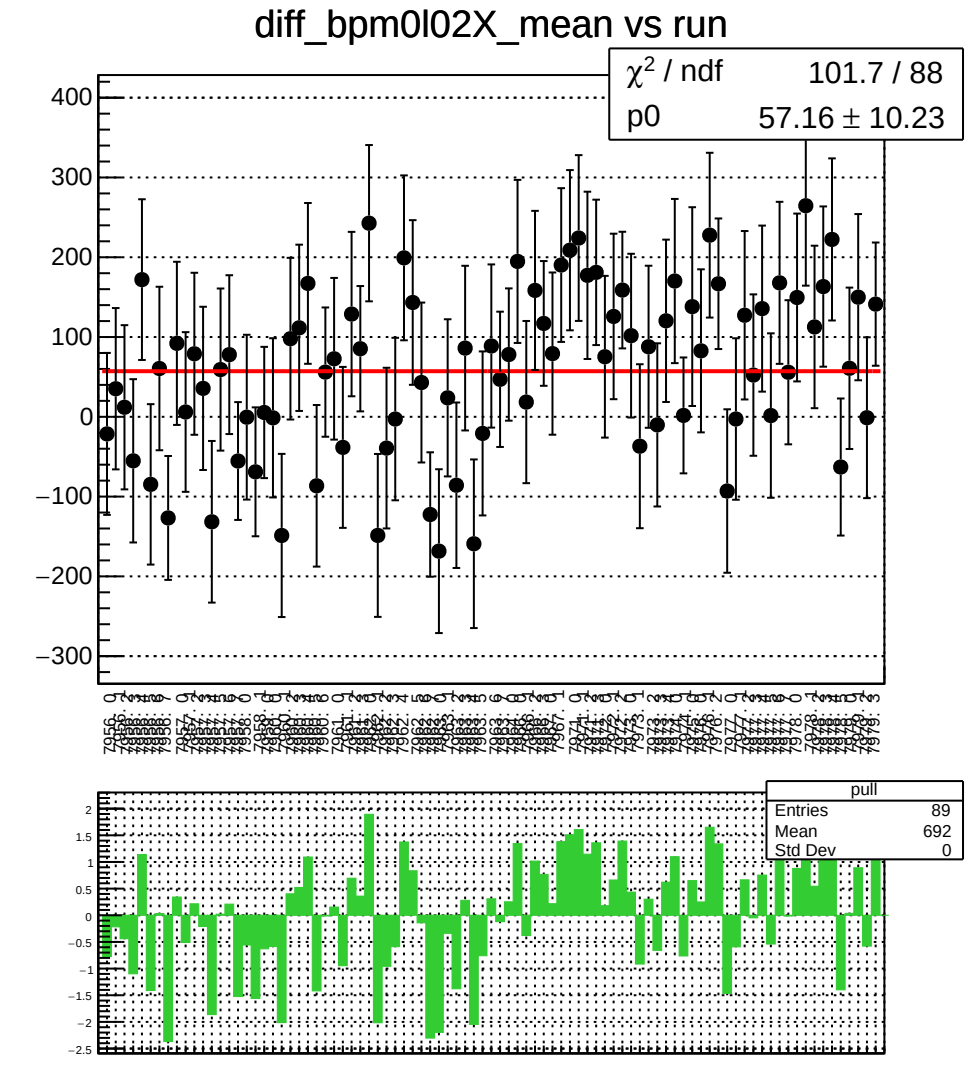

pull1D
Entries 89
Mean 0.01381
Std Dev 1.144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

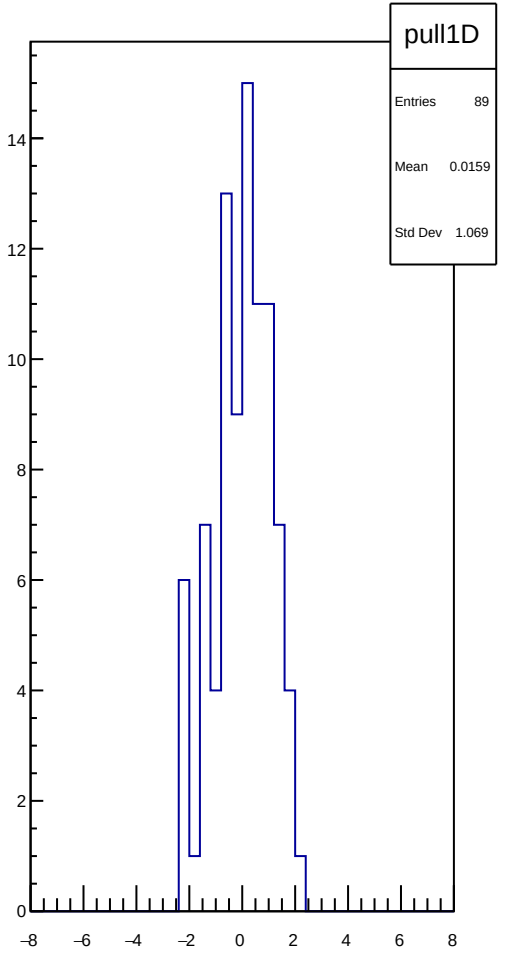

diff_bpm0l01X_rms vs run
χ² / ndf 150.9 / 88
p0 3128 ± 2.338
3200
3150
3100
3050
3000

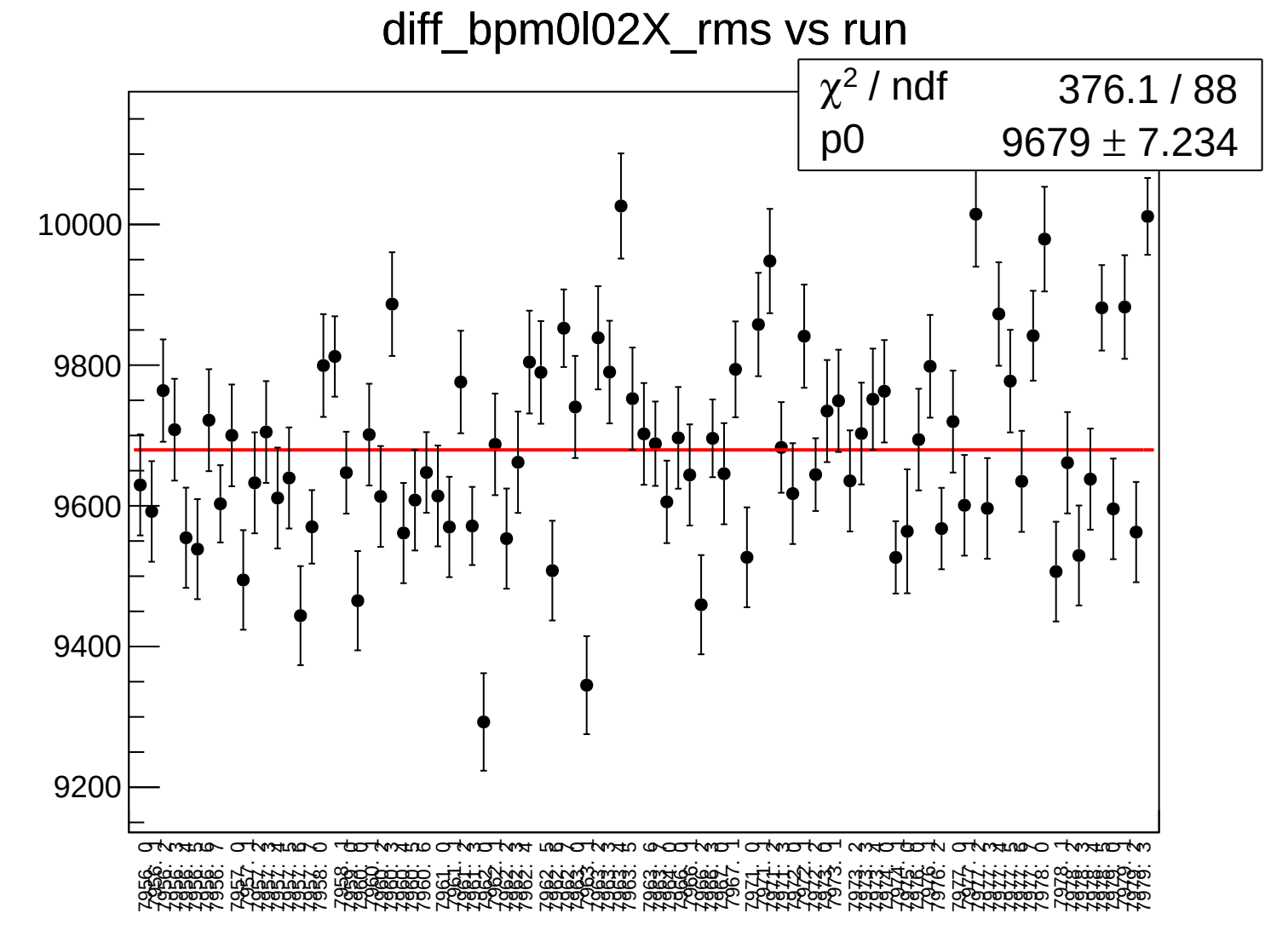

diff_bpm0l01Y_mean vs run
χ² / ndf 175.9 / 88
p0 3.024 ± 2.253
100
50
0
−50
−100
pull
Entries 89
Mean 1974
Std Dev 0
3
2
1
0
−1
−2
−3
−4

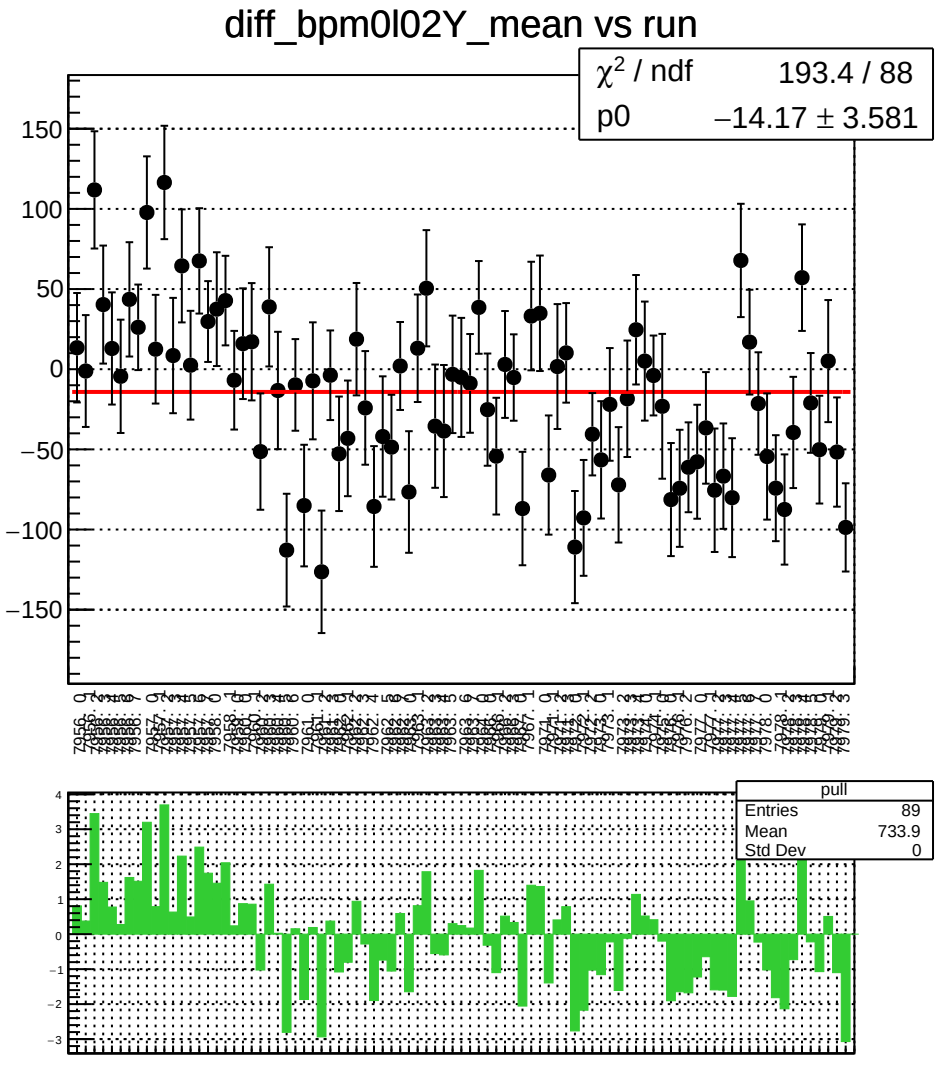

pull1D
Entries 89
Mean −0.004292
Std Dev 1.406
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

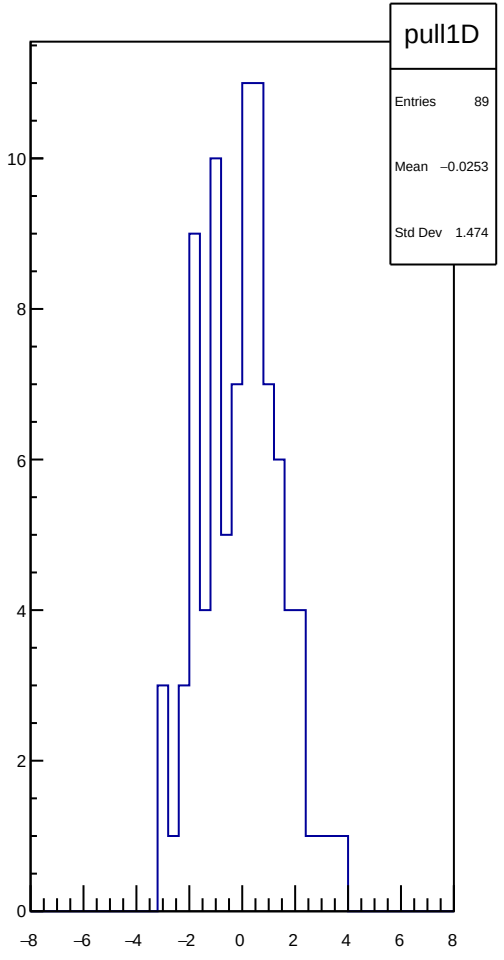

diff_bpm0l01Y_rms vs run
χ² / ndf 2315 / 88
p0 2131 ± 1.593
2350
2300
2250
2200
2150
2100
2050
2000
1950

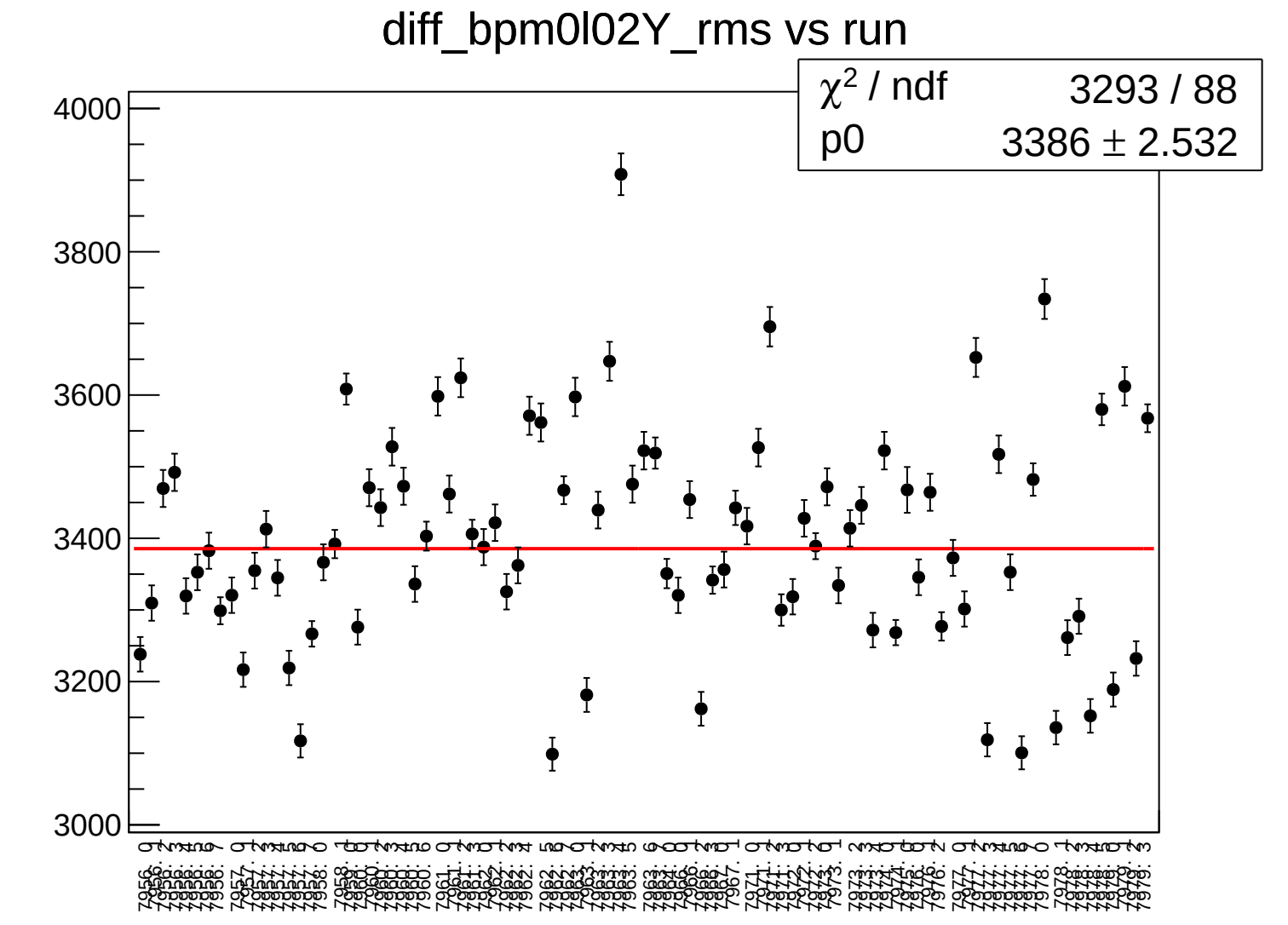

diff_bpm0l02X_mean vs run
χ² / ndf 101.7 / 88
p0 57.16 ± 10.23
pull
Entries 89
Mean 692
Std Dev 0

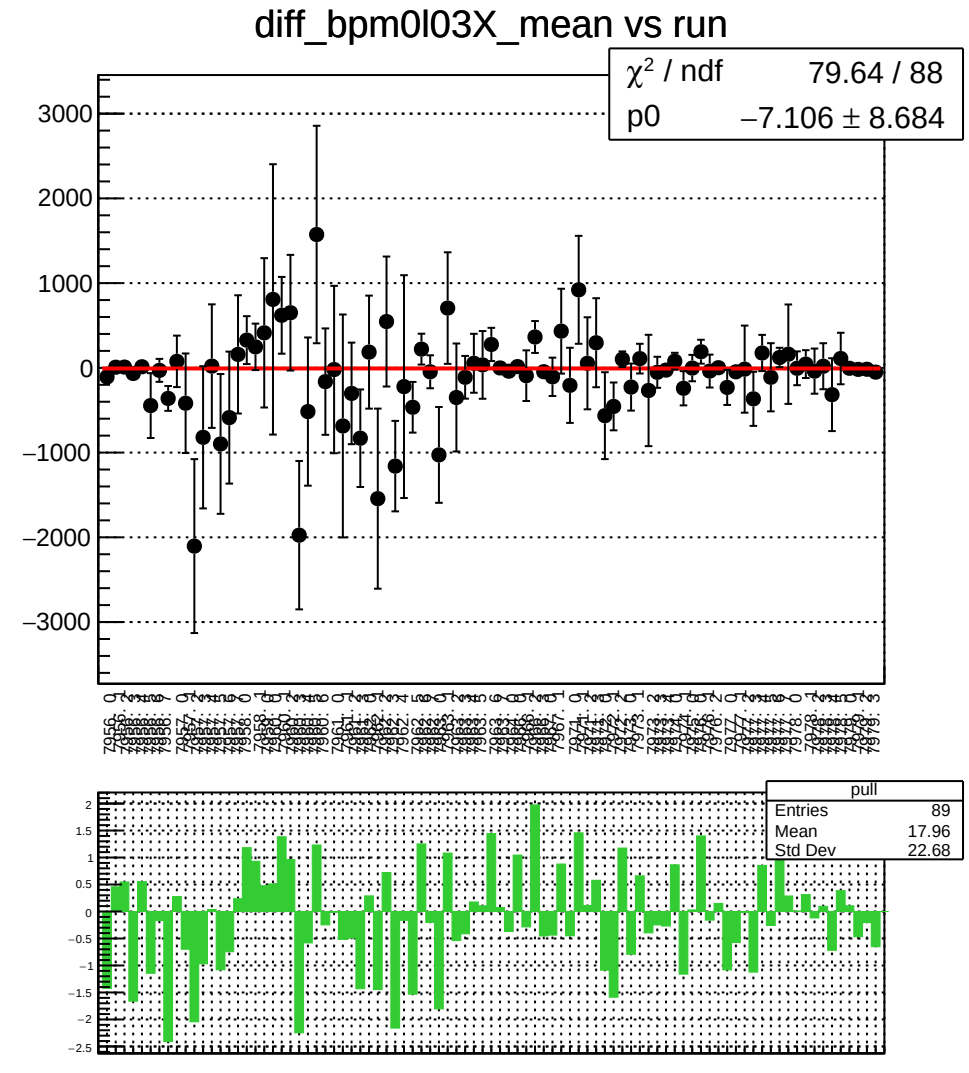

pull1D
Entries 89
Mean 0.0159
Std Dev 1.069

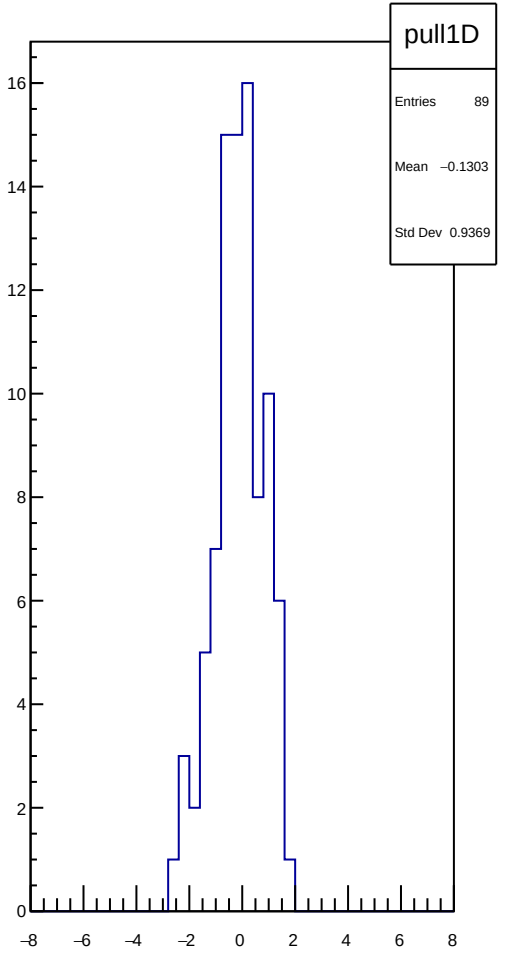

diff_bpm0l02X_rms vs run
χ² / ndf 376.1 / 88
p0 9679 ± 7.234
10000
9800
9600
9400
9200

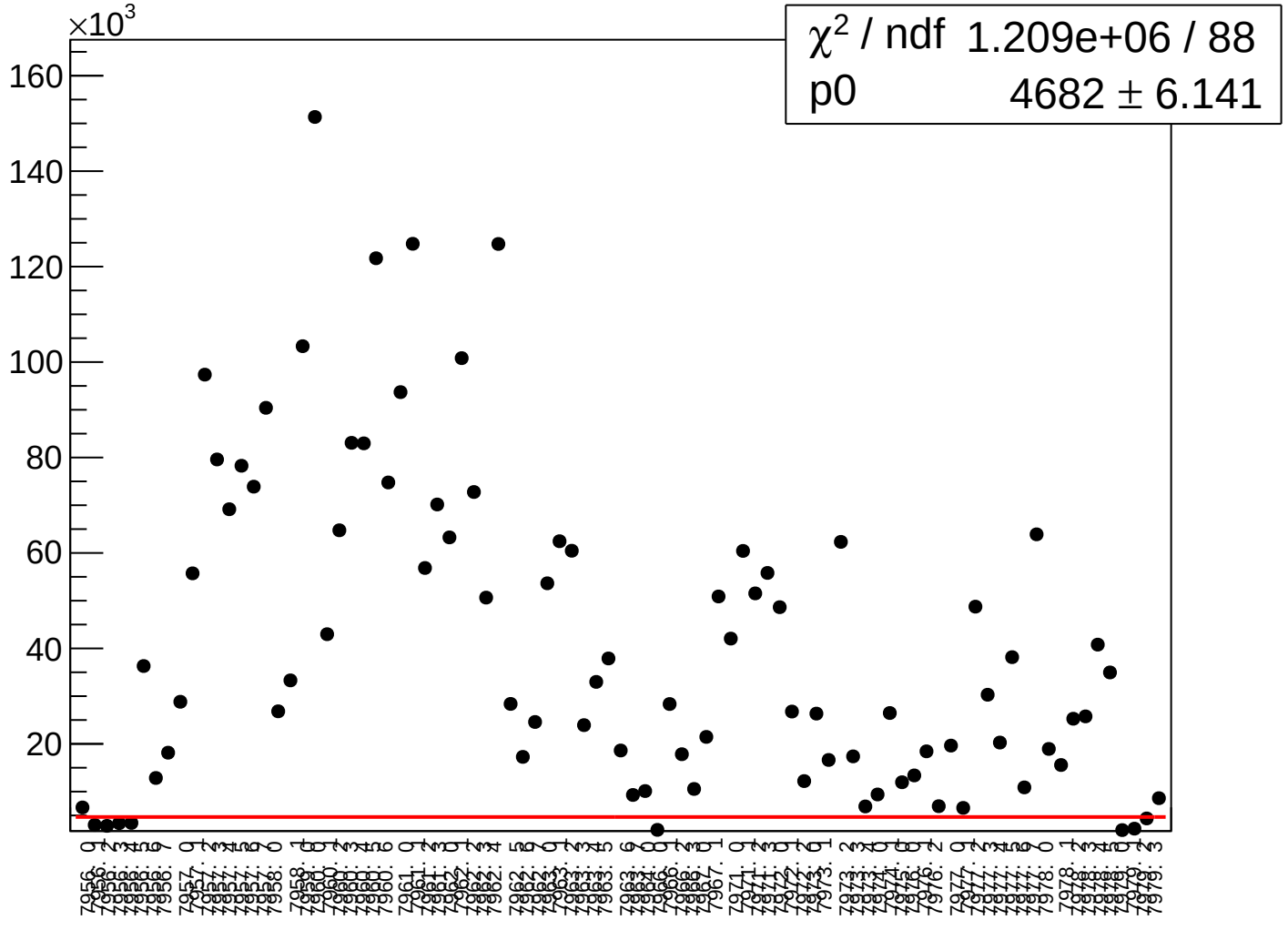

diff_bpm0l02Y_mean vs run
$\chi^2$ / ndf 193.4 / 88
p0 −14.17 ± 3.581
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 733.9
Std Dev 0
4
3
2
1
0
−1
−2
−3

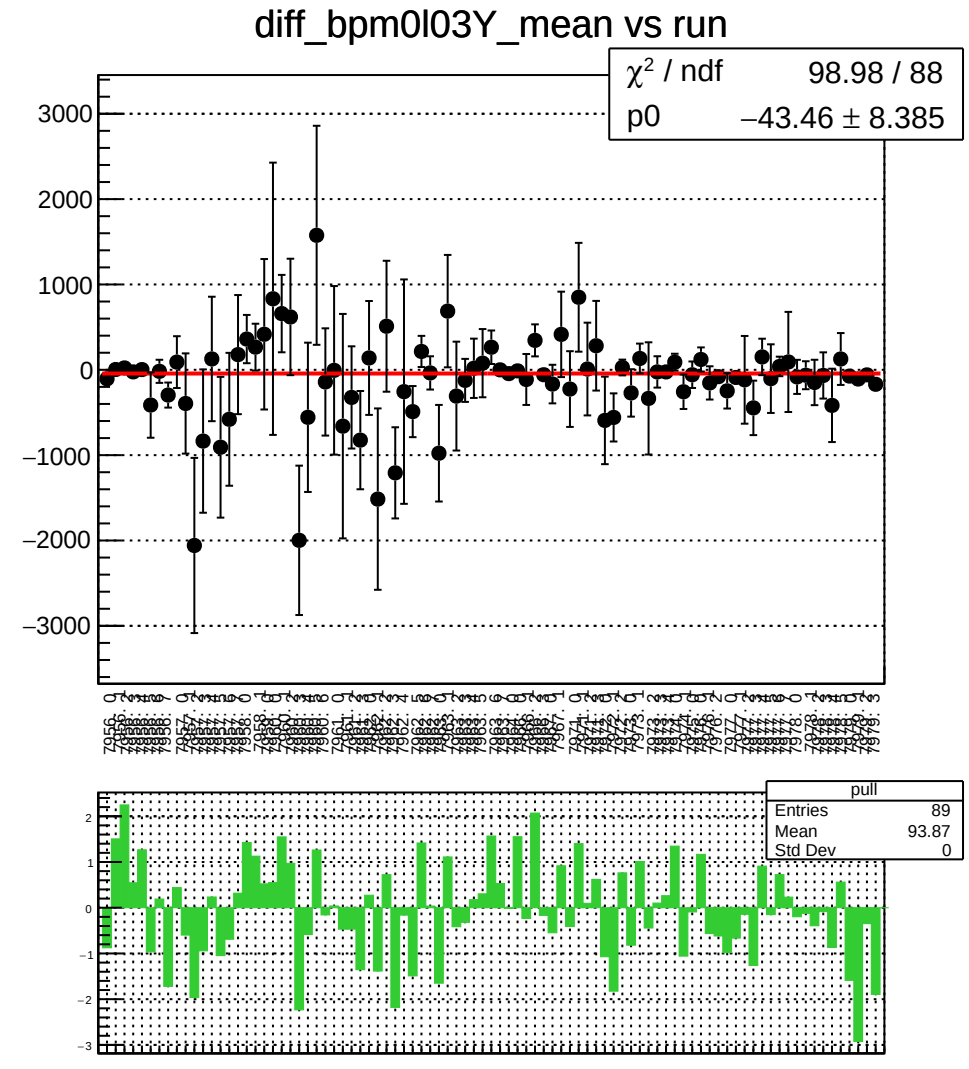

pull1D
Entries 89
Mean −0.0253
Std Dev 1.474
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

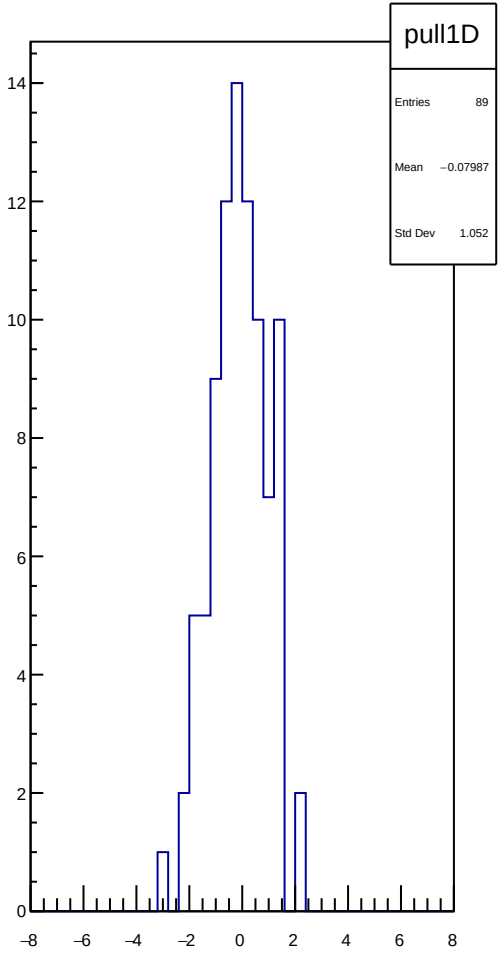

diff_bpm0l02Y_rms vs run
χ² / ndf 3293 / 88
p0 3386 ± 2.532
4000
3800
3600
3400
3200
3000

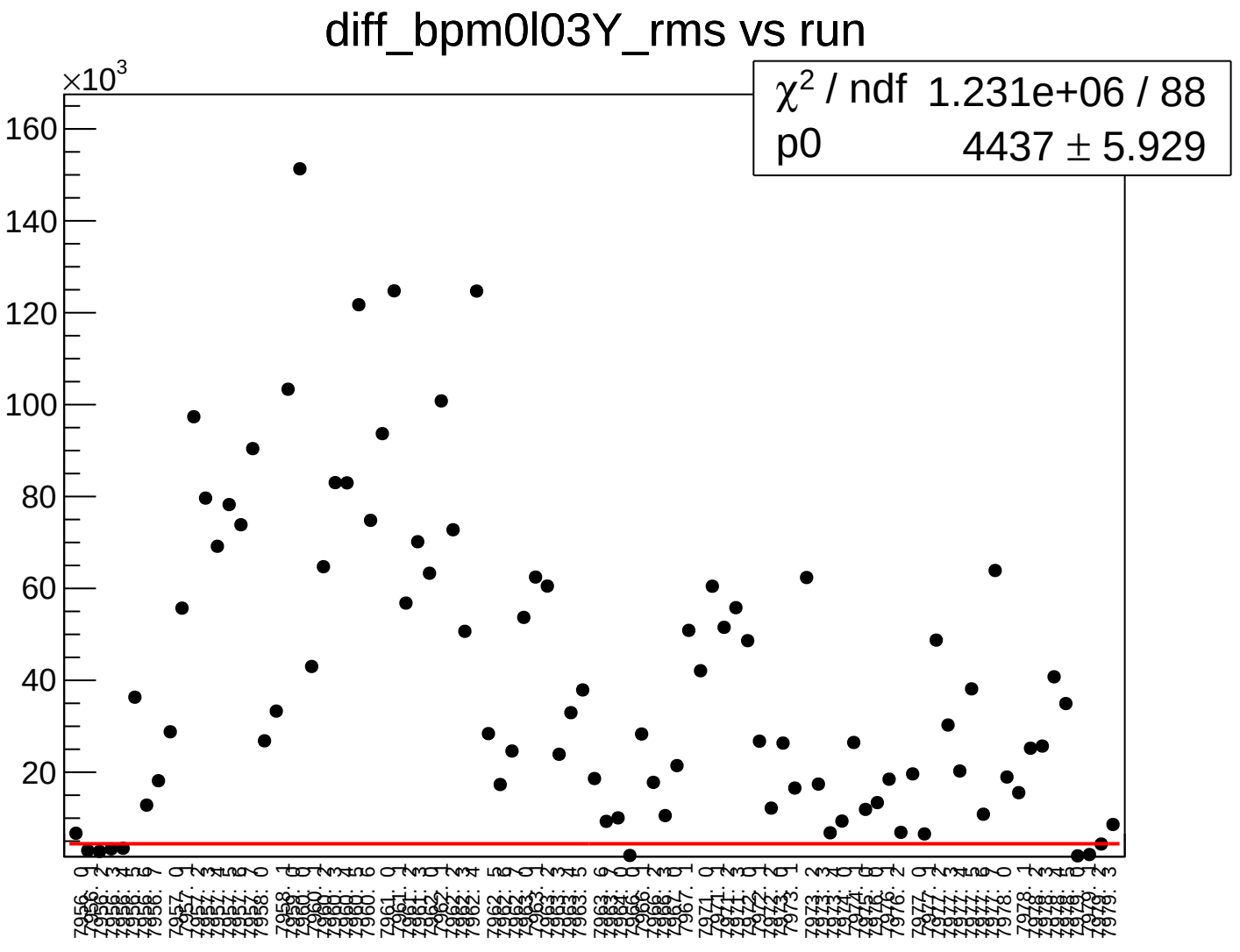

diff_bpm0l03X_mean vs run
χ² / ndf 79.64 / 88
p0 −7.106 ± 8.684
pull
Entries 89
Mean 17.96
Std Dev 22.68

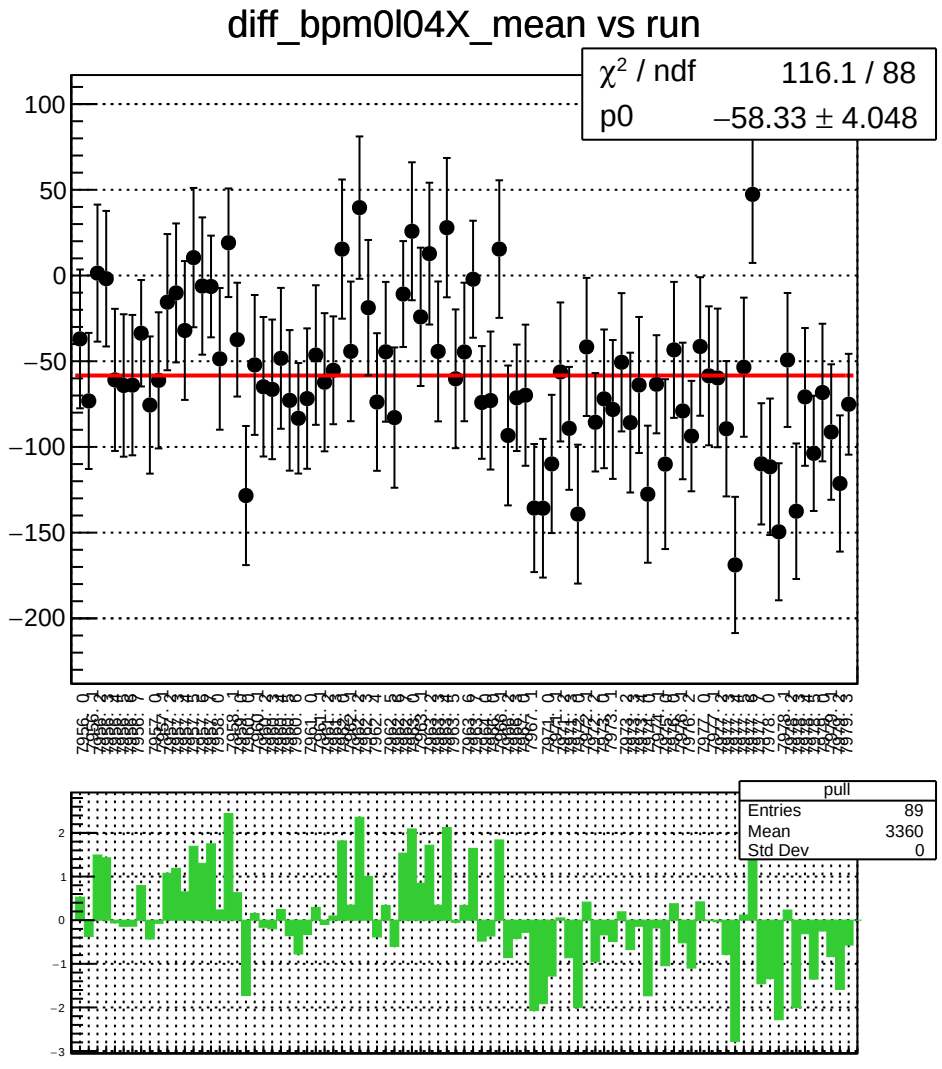

pull1D
Entries 89
Mean −0.1303
Std Dev 0.9369

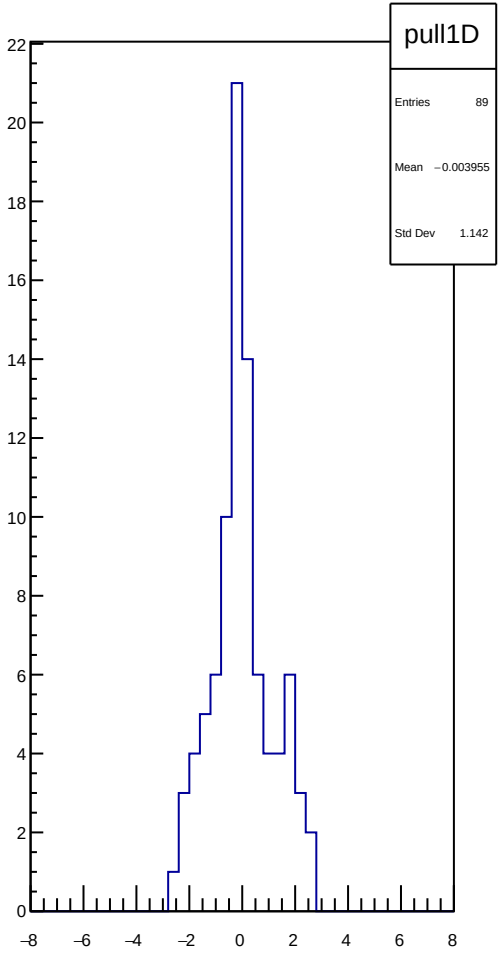

diff_bpm0l03X_rms vs run
$\chi^2$ / ndf 1.209e+06 / 88
p0 4682 ± 6.141
×10^3
160
140
120
100
80
60
40
20

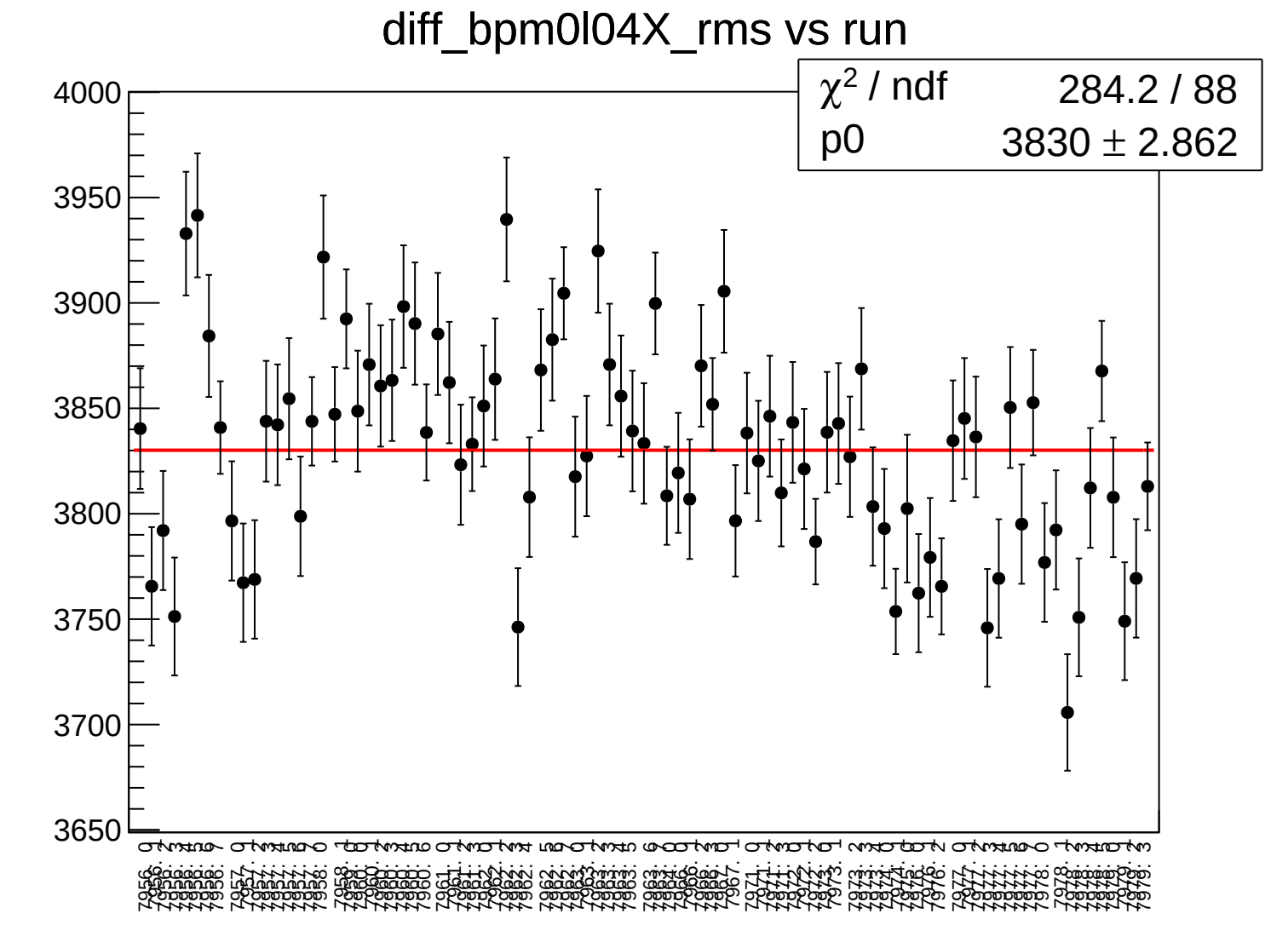

diff_bpm0l03Y_mean vs run
χ² / ndf 98.98 / 88
p0 −43.46 ± 8.385
pull
Entries 89
Mean 93.87
Std Dev 0

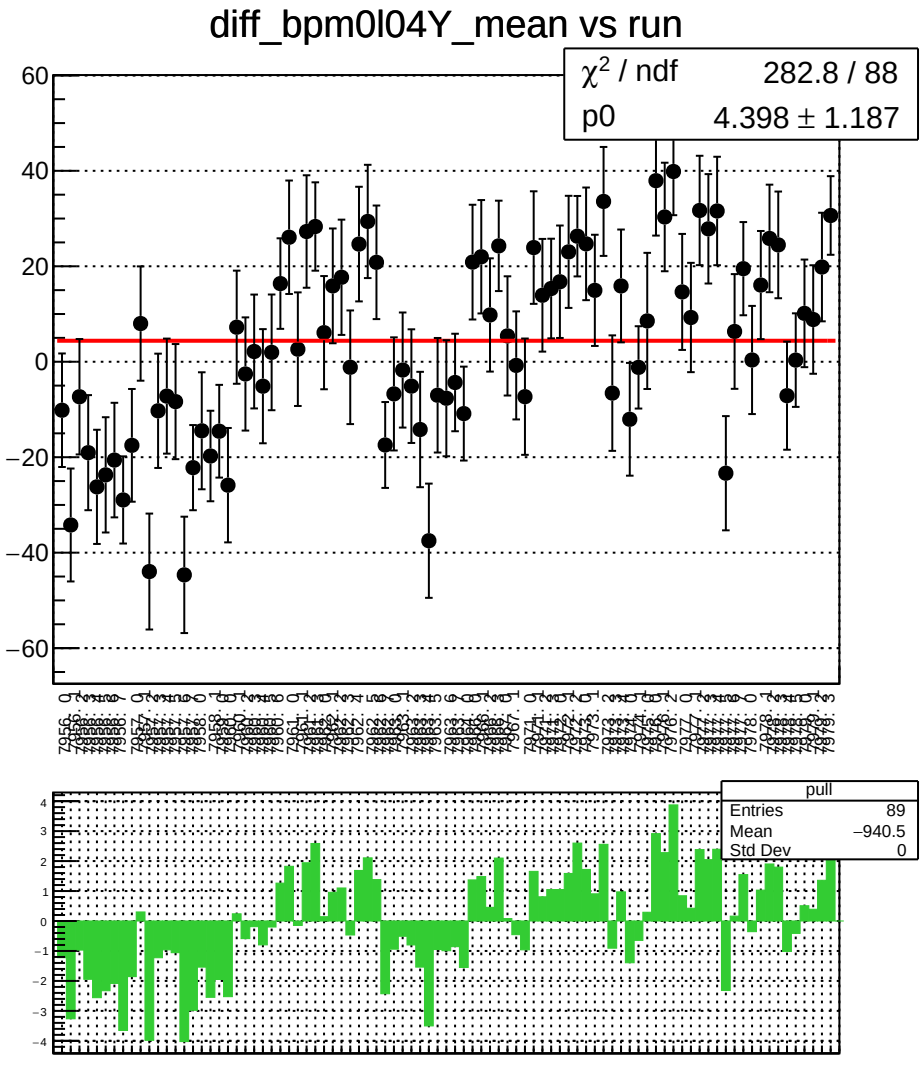

pull1D
Entries 89
Mean −0.07987
Std Dev 1.052

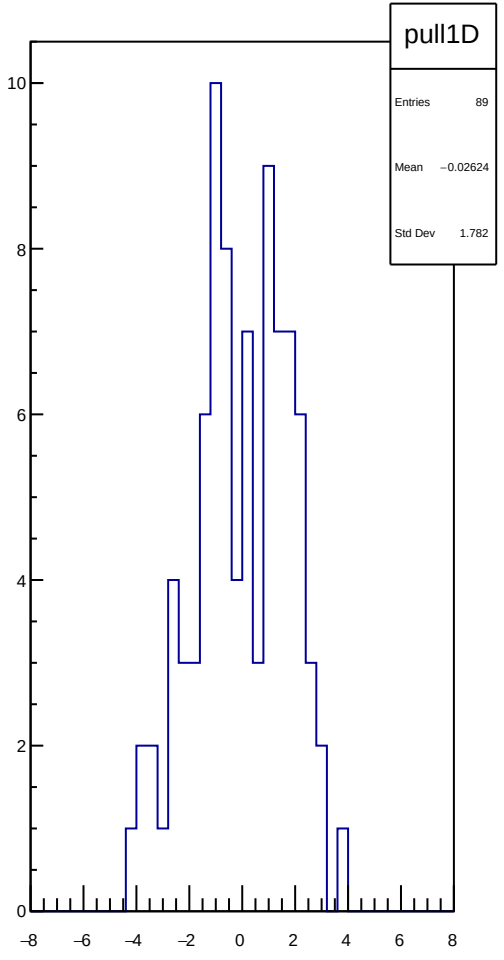

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 1.231e+06 / 88
p0 4437 ± 5.929
160
140
120
100
80
60
40
20

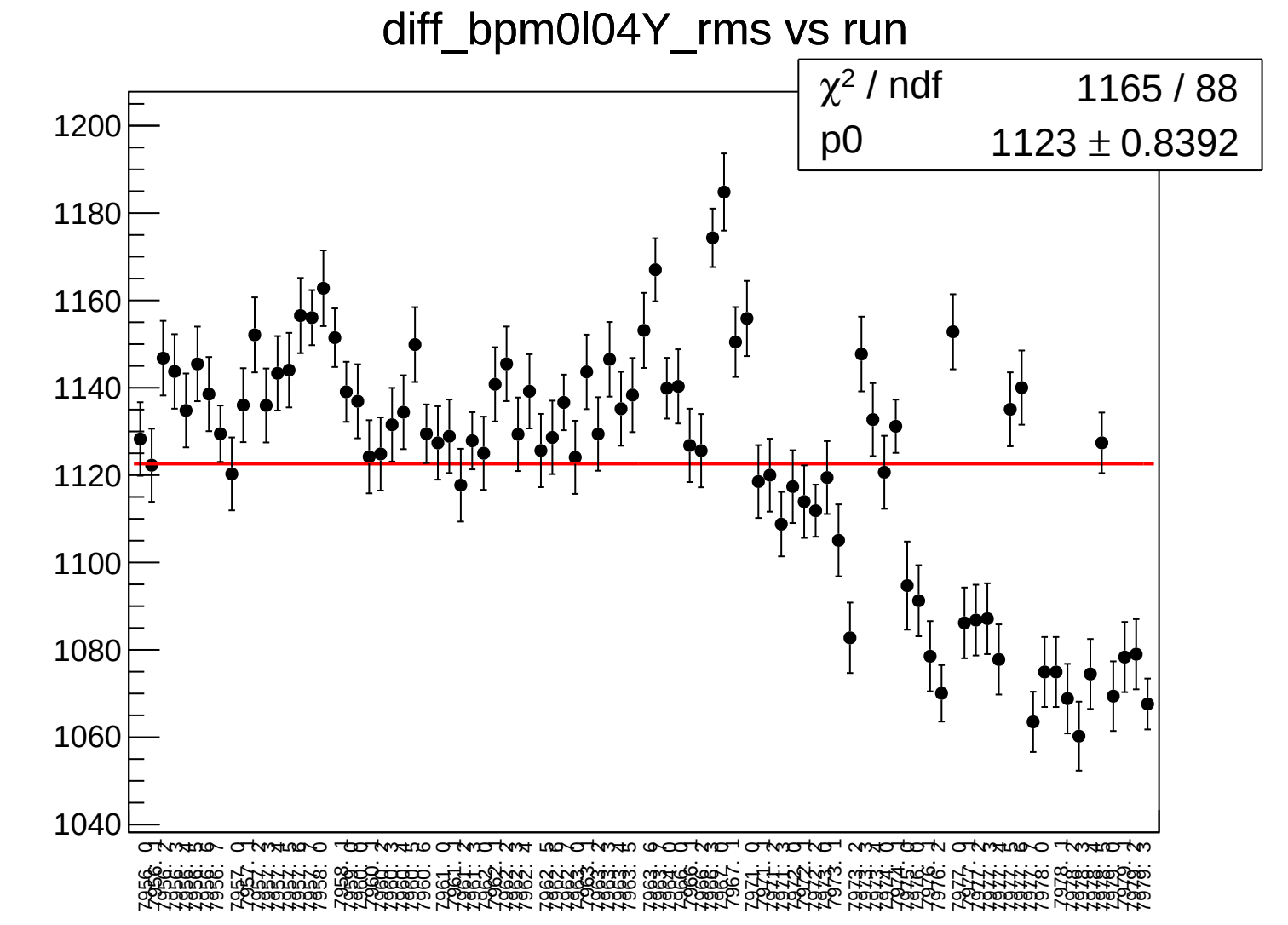

diff_bpm0l04X_mean vs run
χ² / ndf 116.1 / 88
p0 −58.33 ± 4.048
pull
Entries 89
Mean 3360
Std Dev 0

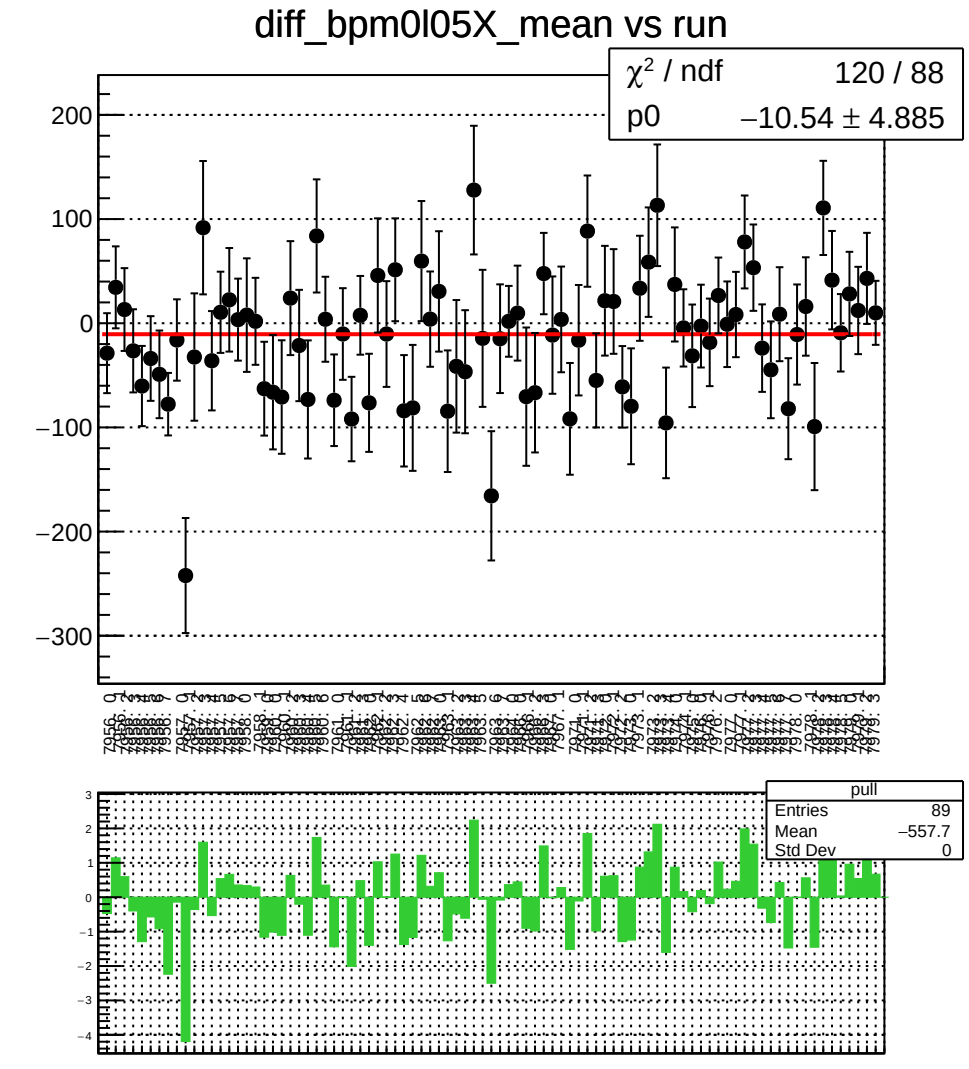

pull1D
Entries 89
Mean −0.003955
Std Dev 1.142

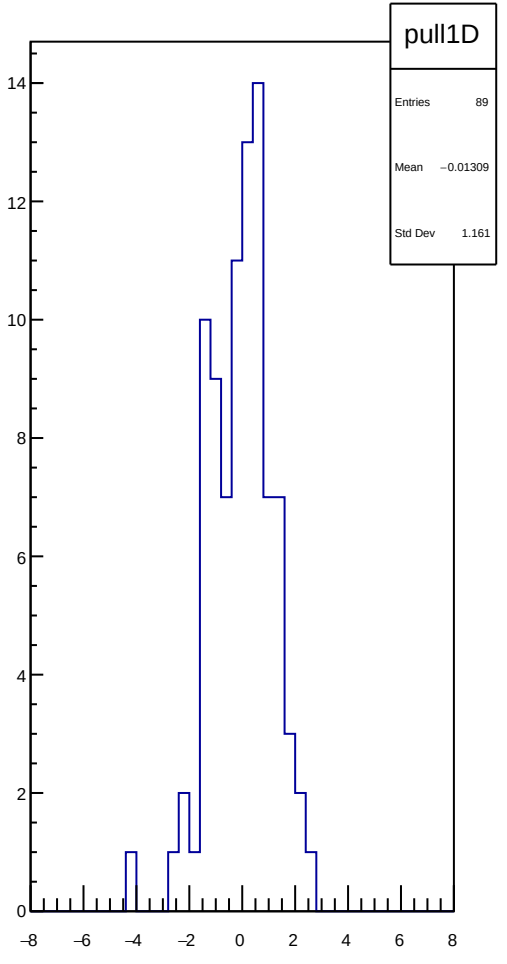

diff_bpm0l04X_rms vs run
χ² / ndf 284.2 / 88
p0 3830 ± 2.862
4000
3950
3900
3850
3800
3750
3700
3650

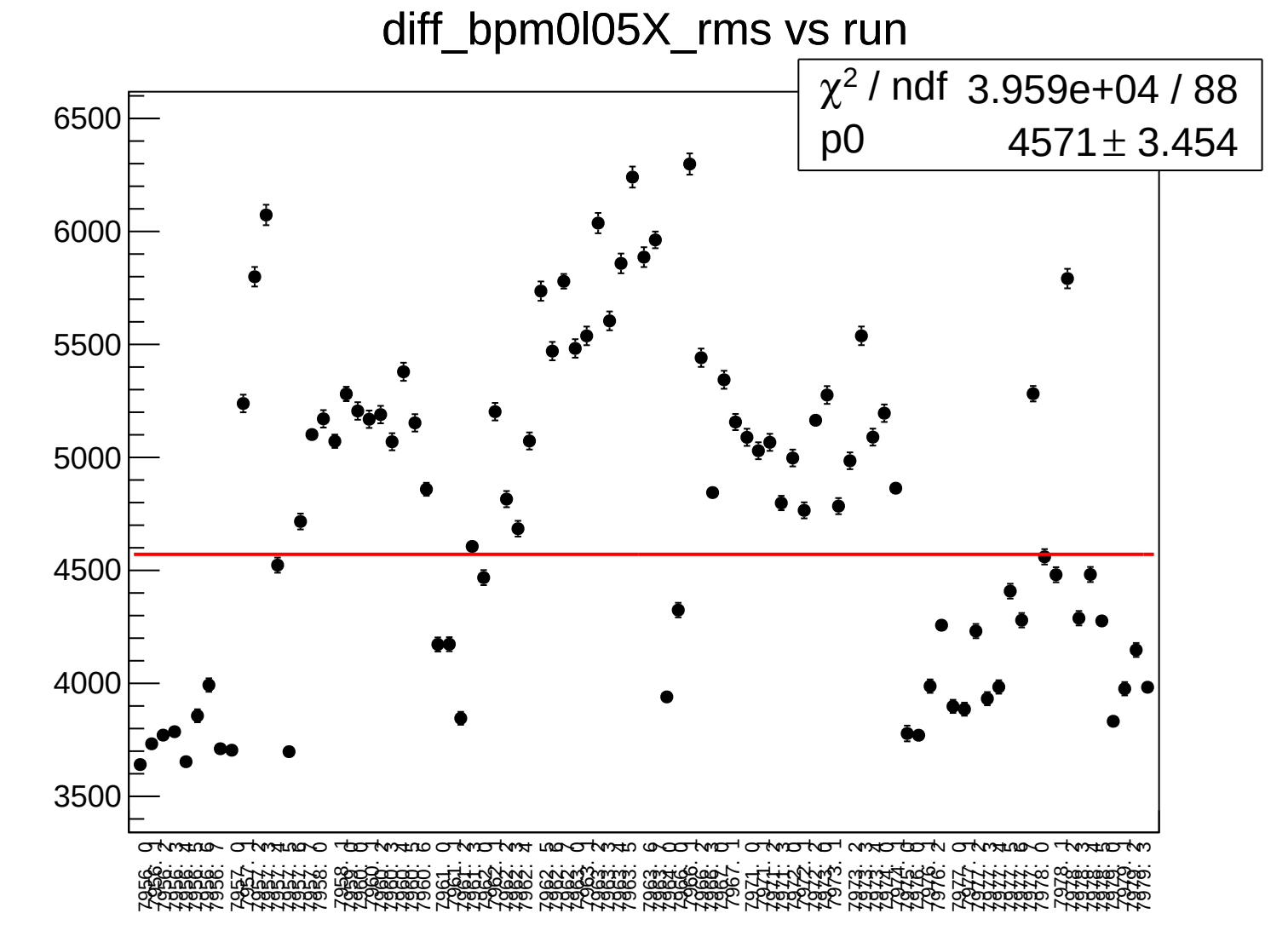

diff_bpm0l04Y_mean vs run
$\chi^2$ / ndf 282.8 / 88
p0 4.398 ± 1.187
pull
Entries 89
Mean −940.5
Std Dev 0

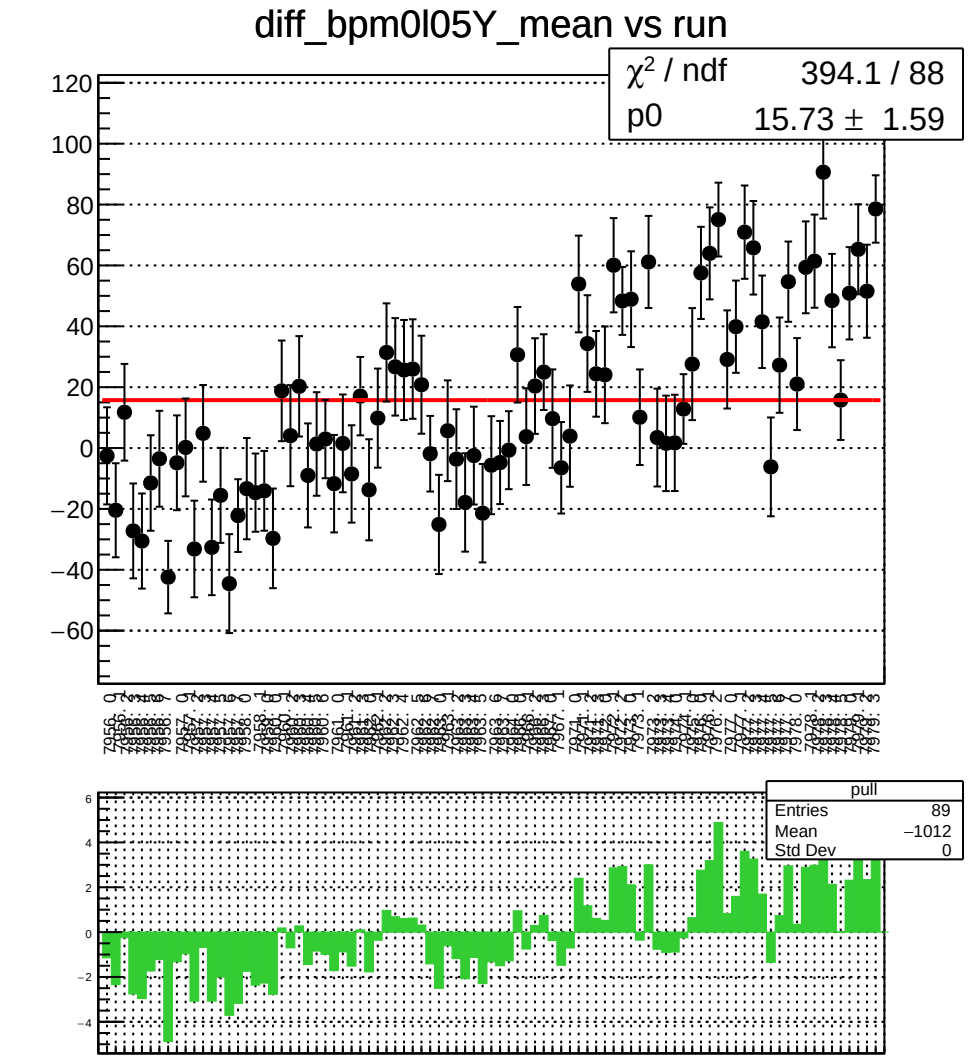

pull1D
Entries 89
Mean −0.02624
Std Dev 1.782

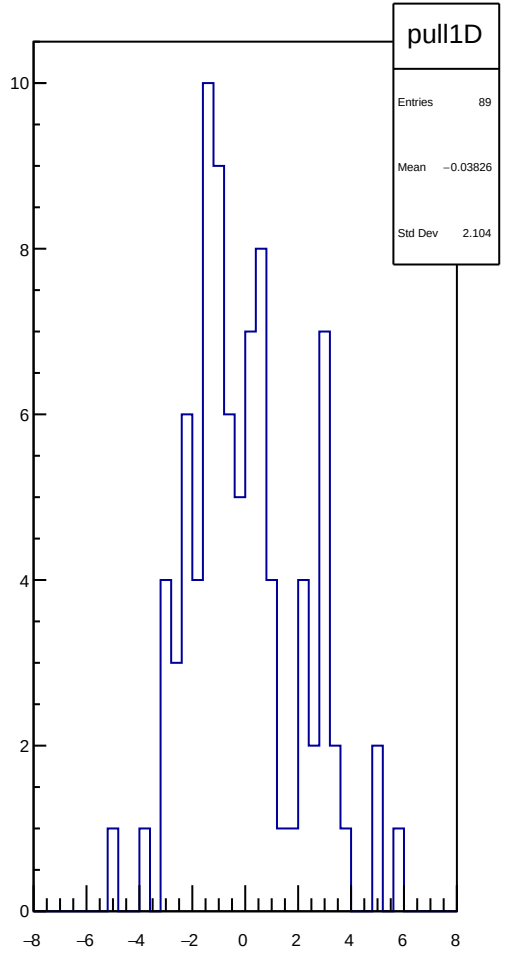

diff_bpm0l04Y_rms vs run
χ² / ndf 1165 / 88
p0 1123 ± 0.8392
1200
1180
1160
1140
1120
1100
1080
1060
1040

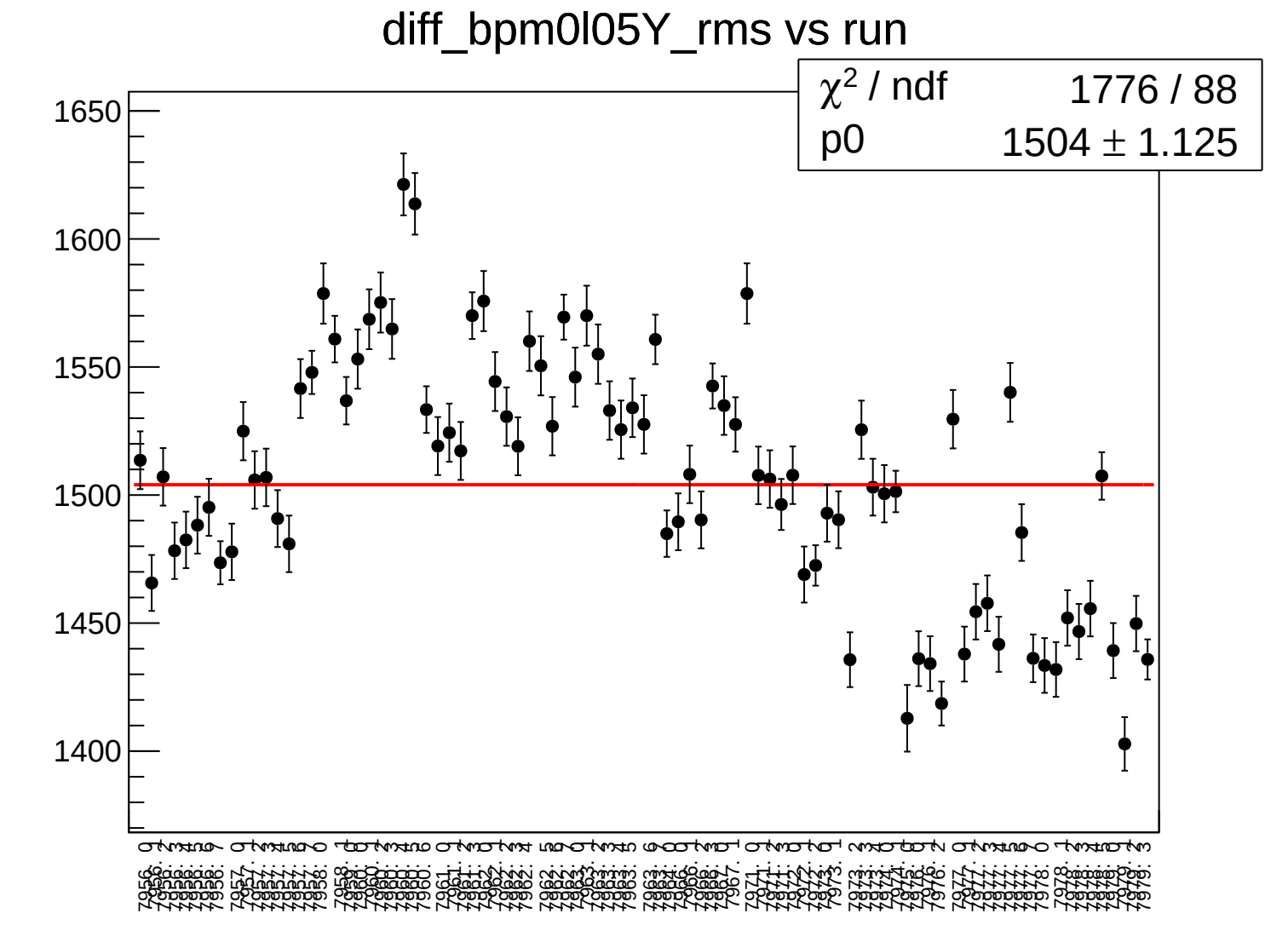

diff_bpm0l05X_mean vs run
χ² / ndf 120 / 88
p0 −10.54 ± 4.885
200
100
0
−100
−200
−300
pull
Entries 89
Mean −557.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4

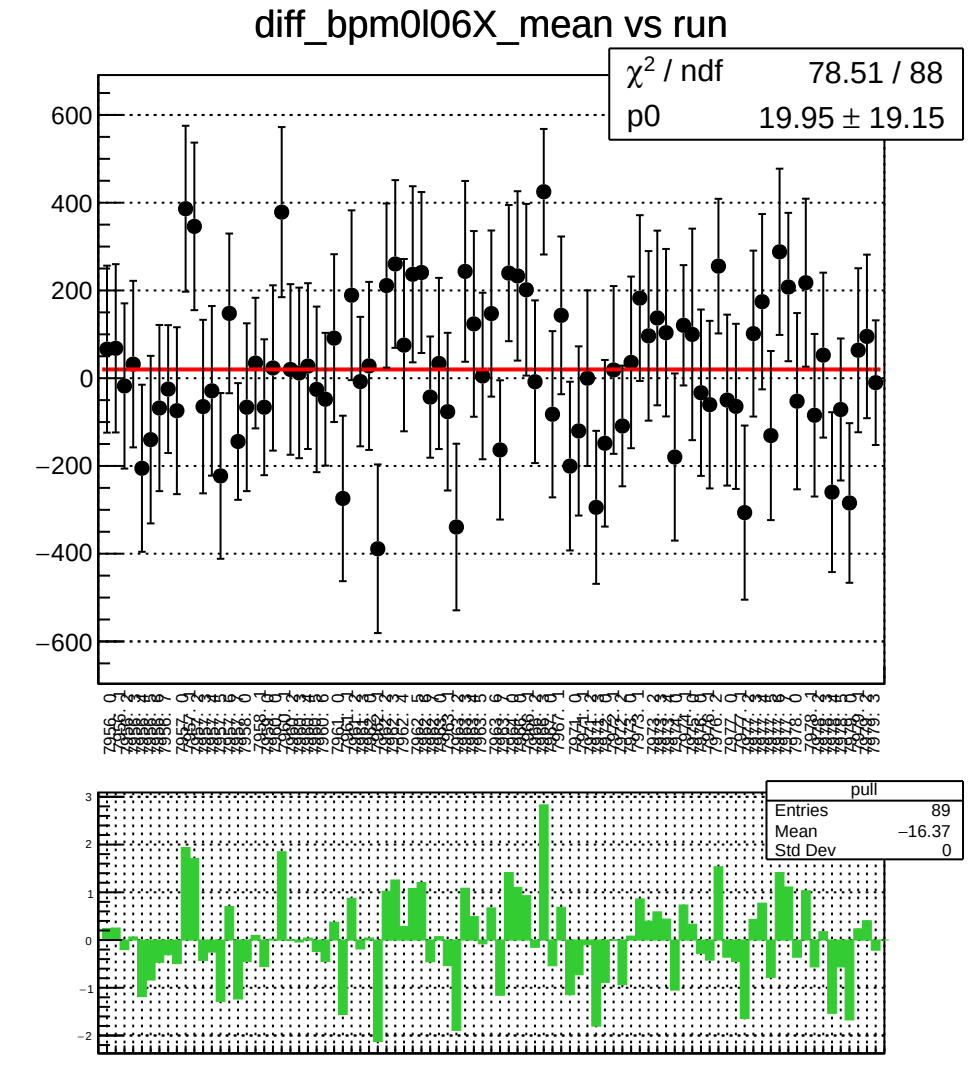

pull1D
Entries 89
Mean −0.01309
Std Dev 1.161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

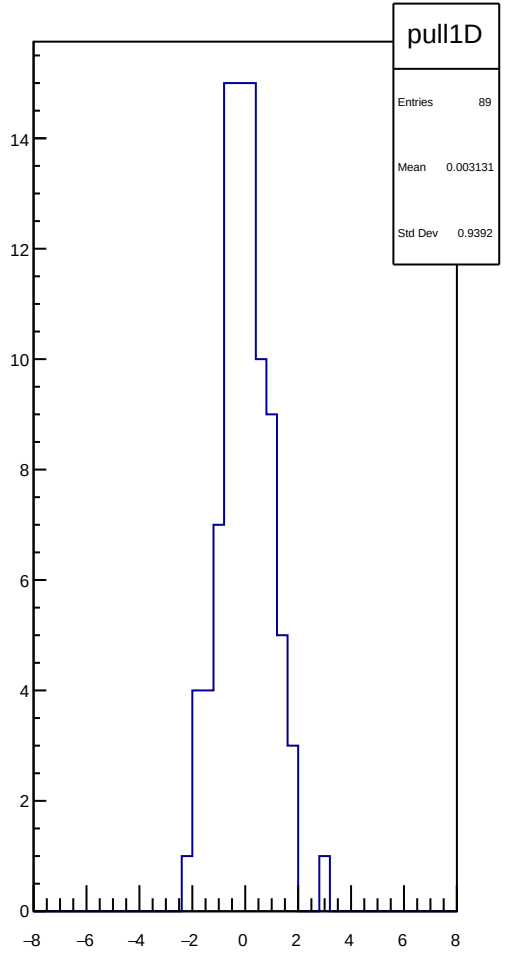

diff_bpm0l05X_rms vs run
χ² / ndf 3.959e+04 / 88
p0 4571 ± 3.454
6500
6000
5500
5000
4500
4000
3500

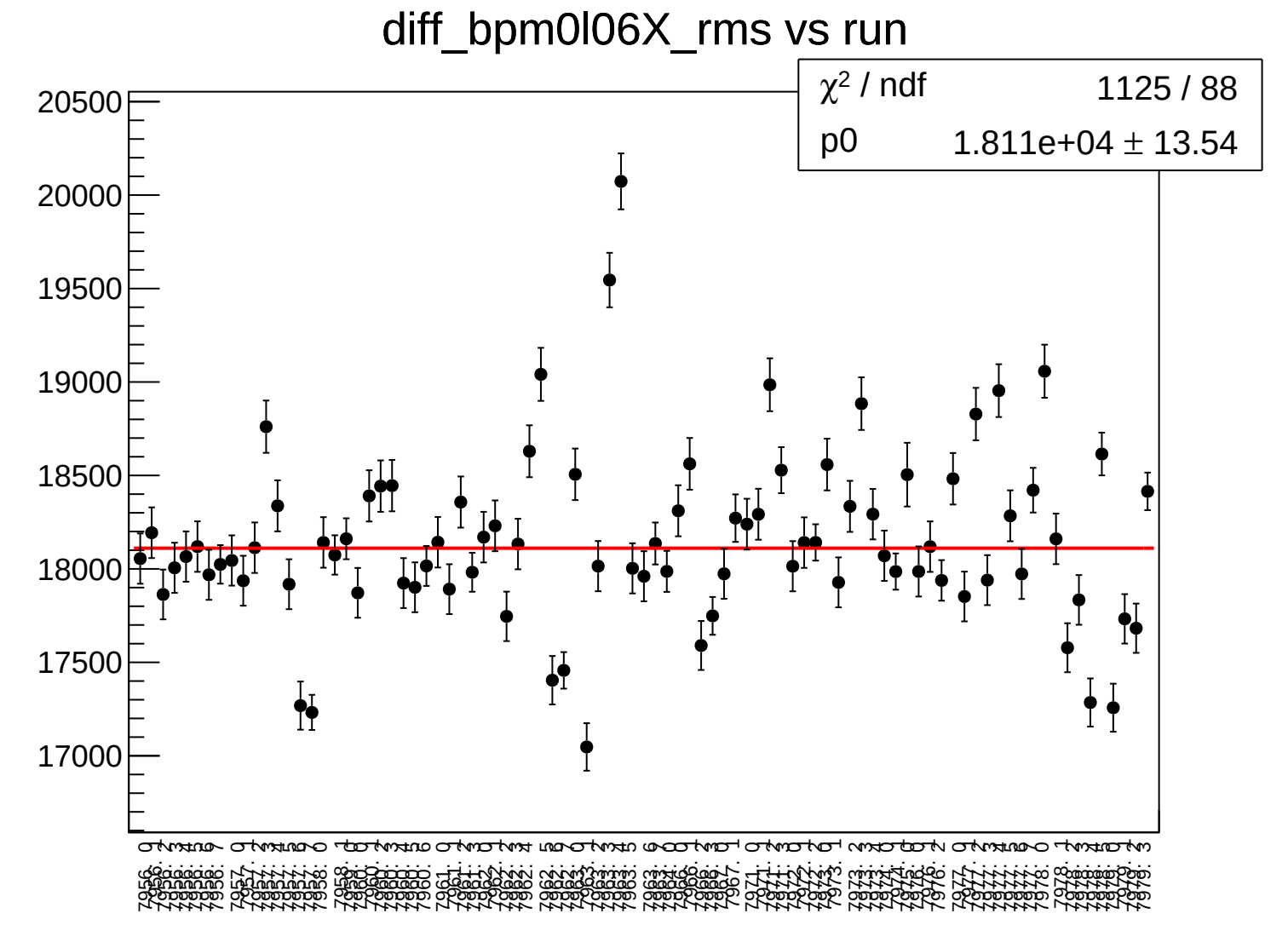

diff_bpm0l05Y_mean vs run
χ² / ndf 394.1 / 88
p0 15.73 ± 1.59
pull
Entries 89
Mean −1012
Std Dev 0

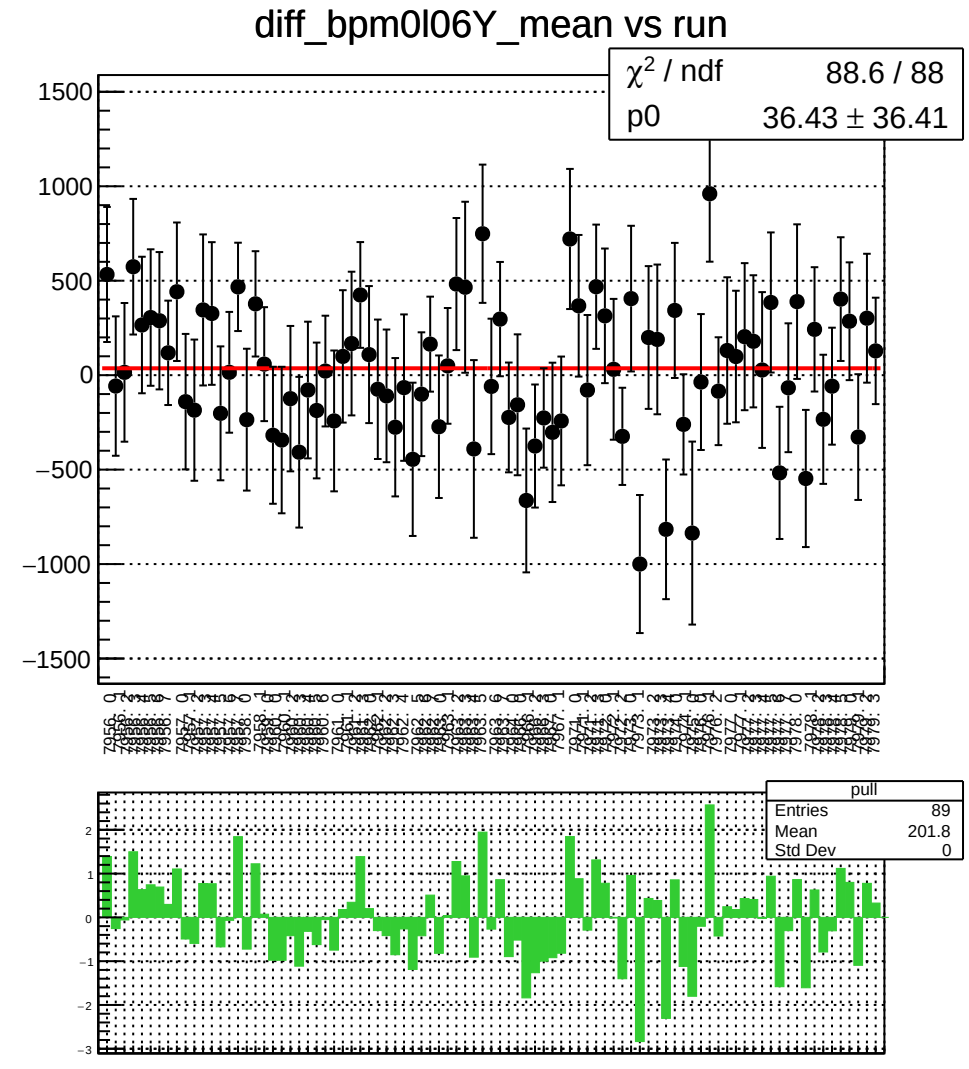

pull1D
Entries 89
Mean −0.03826
Std Dev 2.104

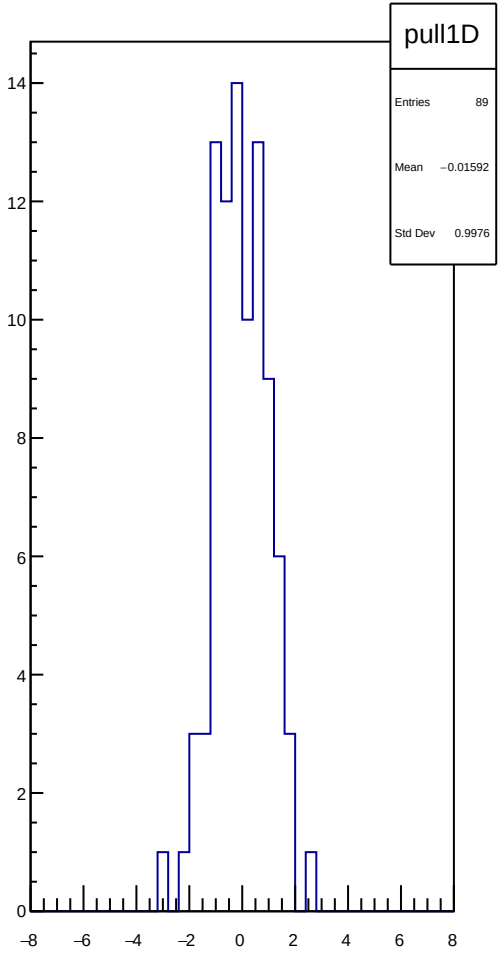

diff_bpm0l05Y_rms vs run
χ² / ndf 1776 / 88
p0 1504 ± 1.125
1650
1600
1550
1500
1450
1400

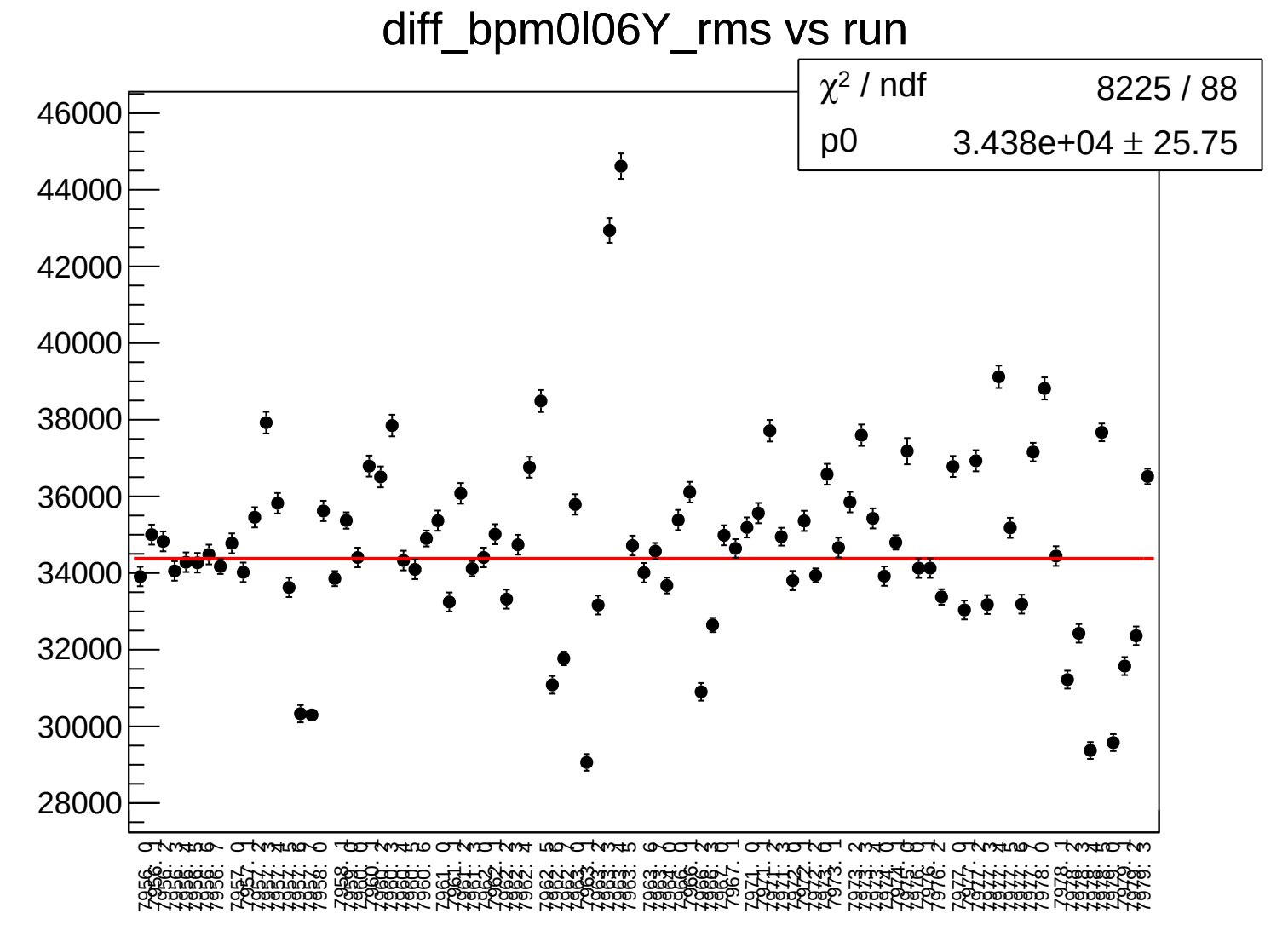

diff_bpm0l06X_mean vs run
χ² / ndf 78.51 / 88
p0 19.95 ± 19.15
pull
Entries 89
Mean −16.37
Std Dev 0

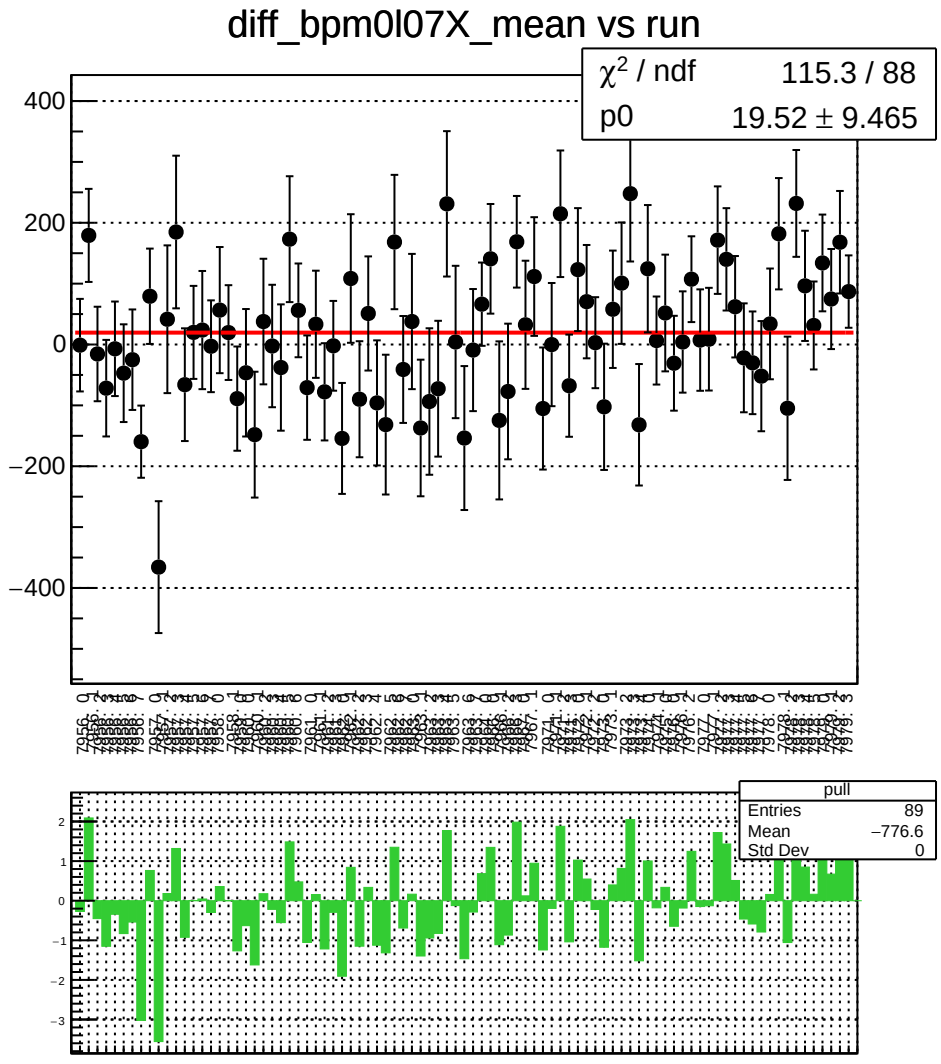

pull1D
Entries 89
Mean 0.003131
Std Dev 0.9392

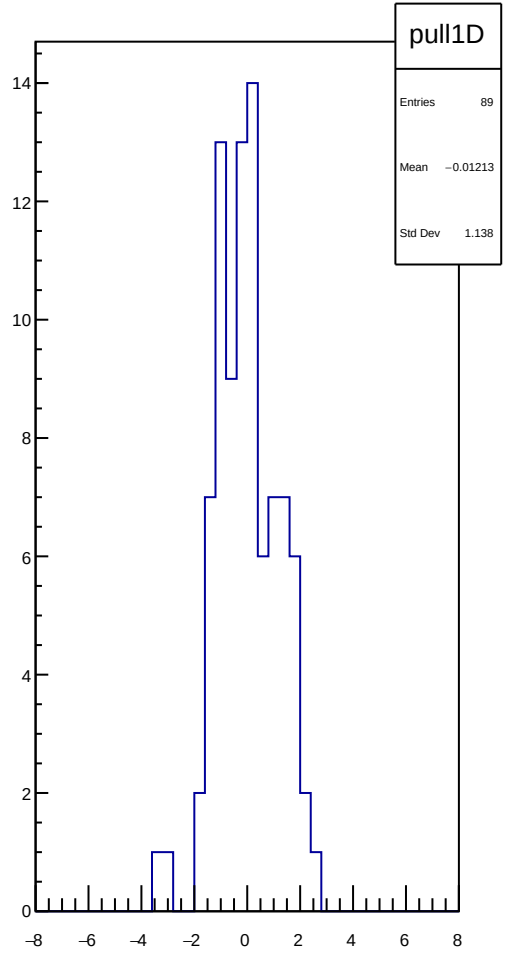

diff_bpm0l06X_rms vs run
χ² / ndf 1125 / 88
p0 1.811e+04 ± 13.54
20500
20000
19500
19000
18500
18000
17500
17000

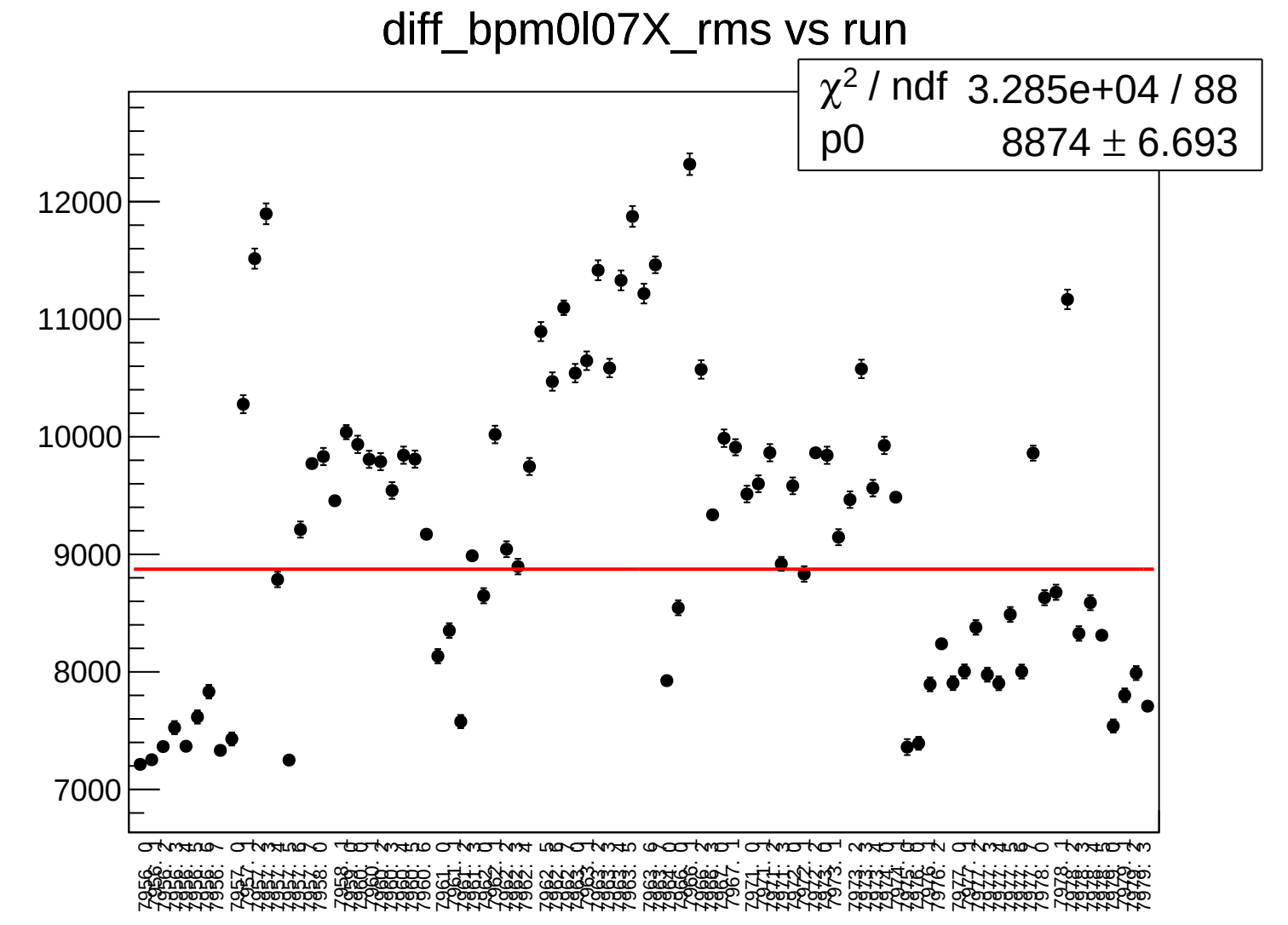

diff_bpm0l06Y_mean vs run
χ² / ndf 88.6 / 88
p0 36.43 ± 36.41
pull
Entries 89
Mean 201.8
Std Dev 0

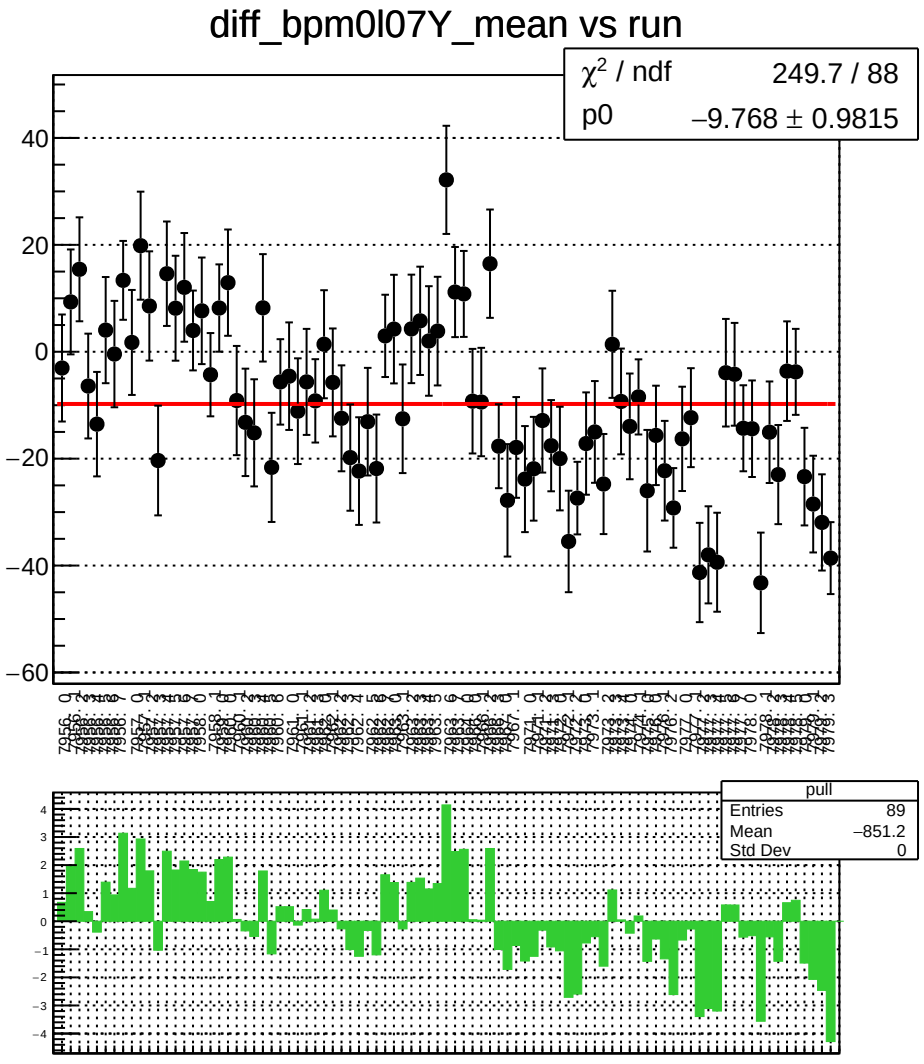

pull1D
Entries 89
Mean −0.01592
Std Dev 0.9976

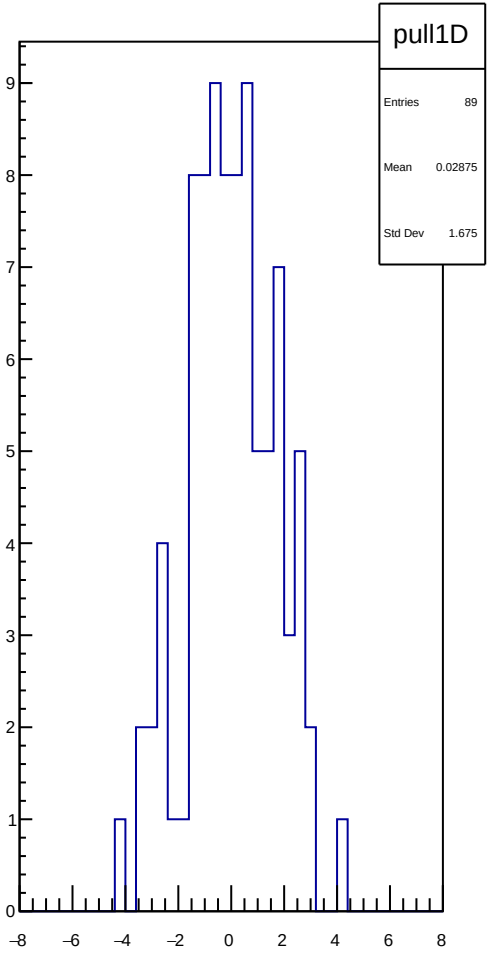

diff_bpm0l06Y_rms vs run
χ² / ndf 8225 / 88
p0 3.438e+04 ± 25.75
46000
44000
42000
40000
38000
36000
34000
32000
30000
28000

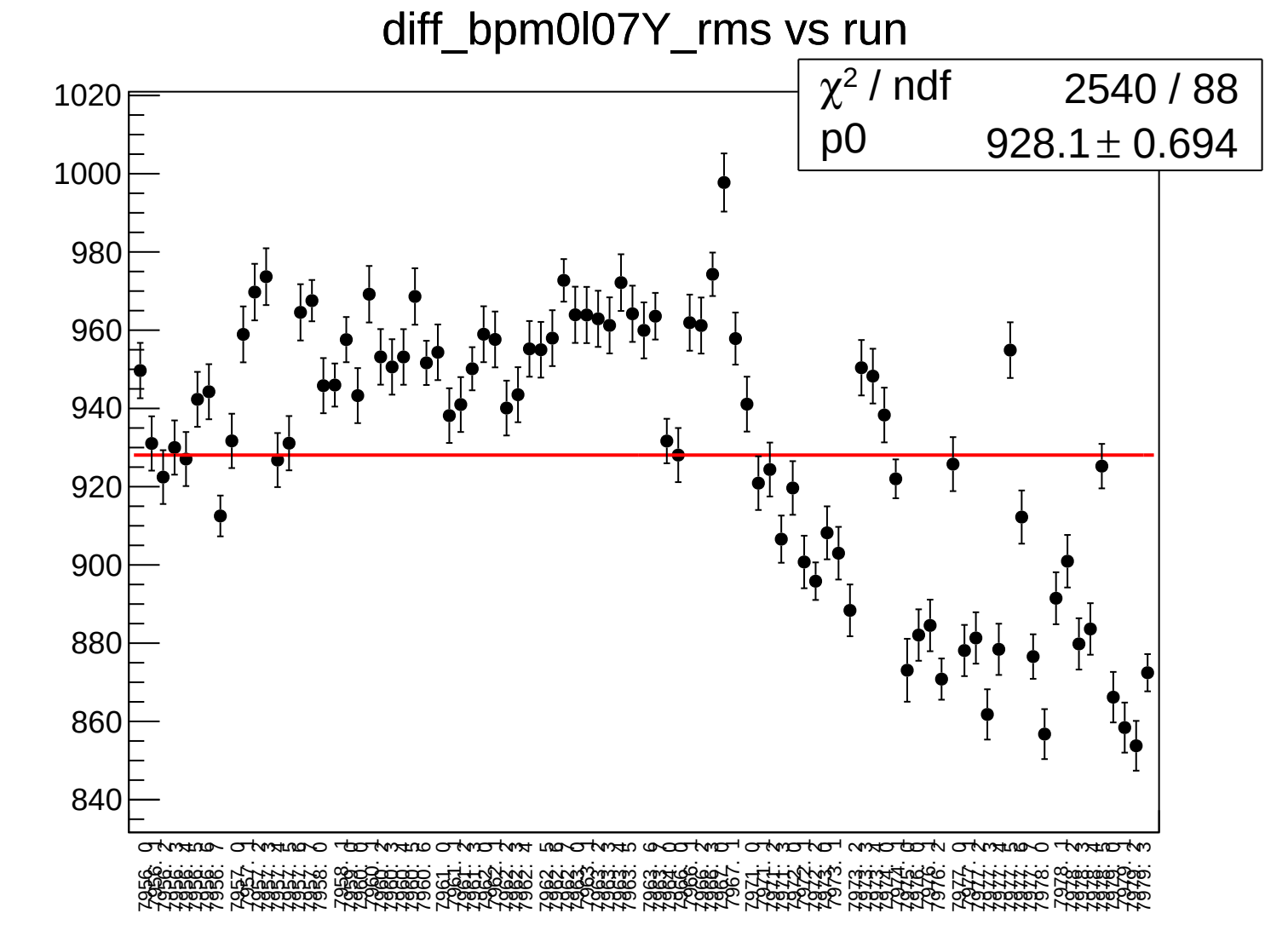

diff_bpm0l07X_mean vs run
χ² / ndf 115.3 / 88
p0 19.52 ± 9.465
400
200
0
−200
−400
pull
Entries 89
Mean −776.6
Std Dev 0
2
1
0
−1
−2
−3

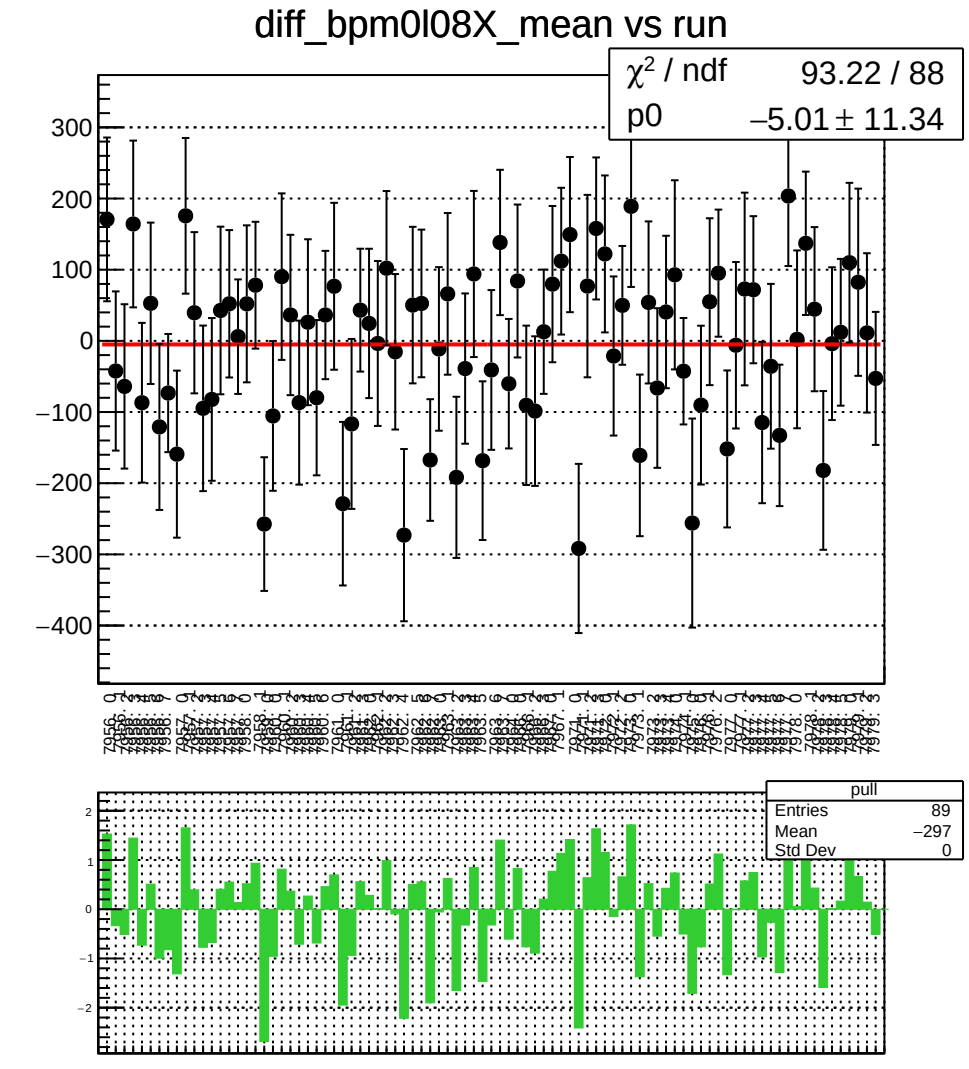

pull1D
Entries 89
Mean −0.01213
Std Dev 1.138
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

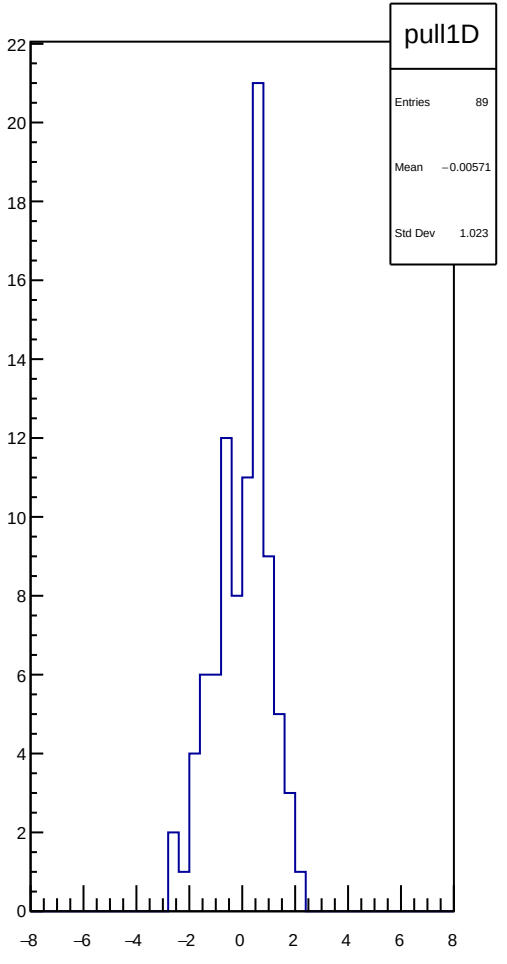

diff_bpm0l07X_rms vs run
χ² / ndf 3.285e+04 / 88
p0 8874 ± 6.693
12000
11000
10000
9000
8000
7000

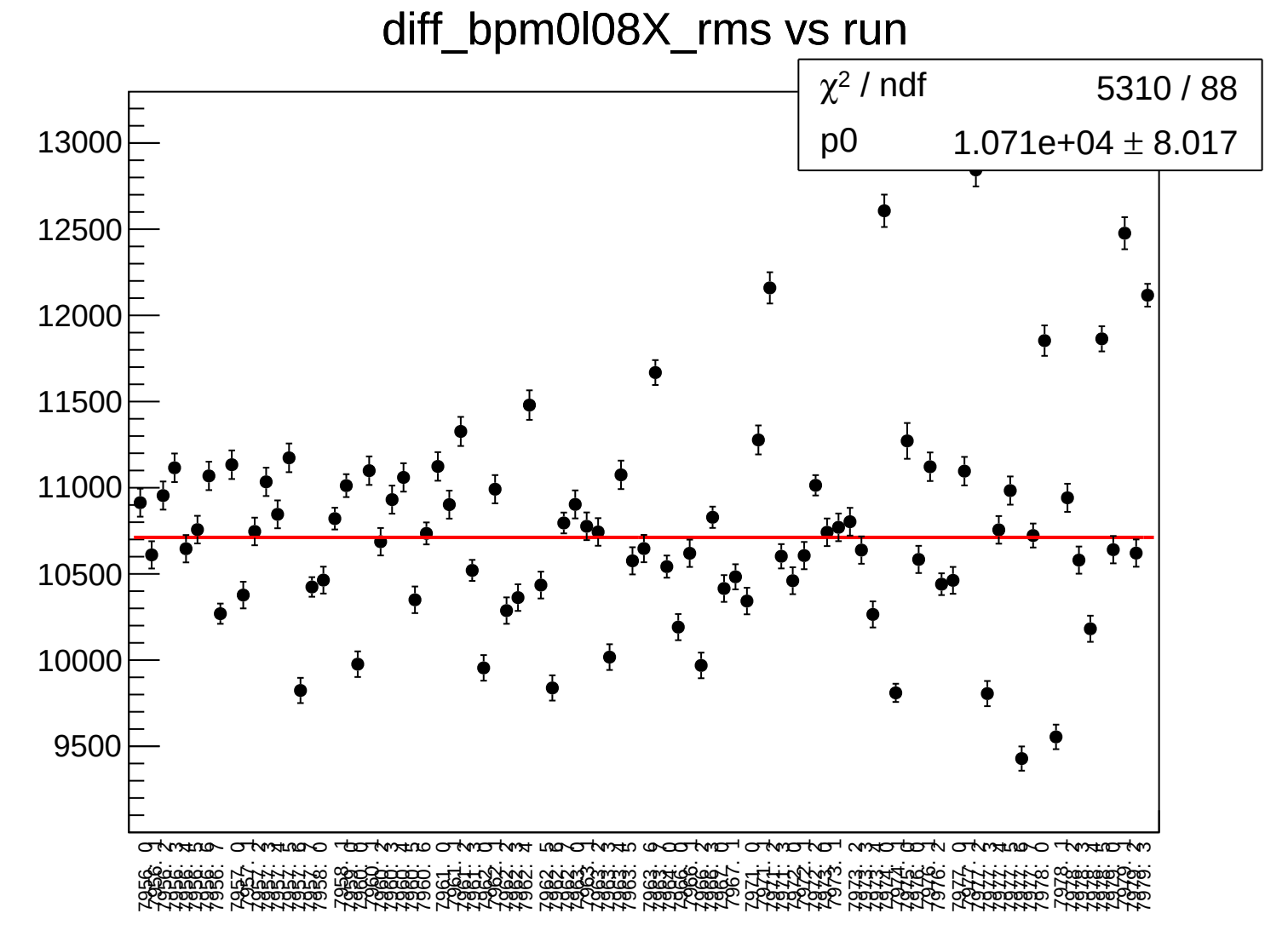

diff_bpm0l07Y_mean vs run
χ² / ndf 249.7 / 88
p0 −9.768 ± 0.9815
pull
Entries 89
Mean −851.2
Std Dev 0

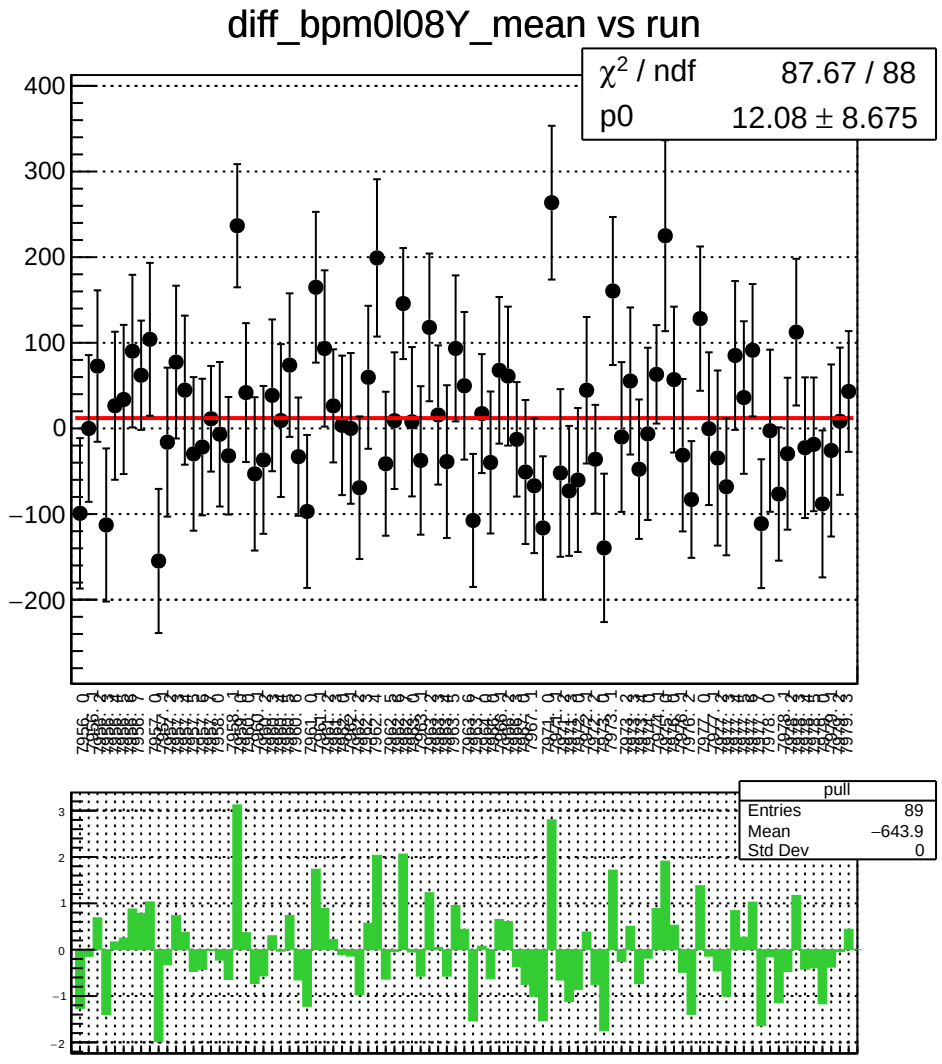

pull1D
Entries 89
Mean 0.02875
Std Dev 1.675

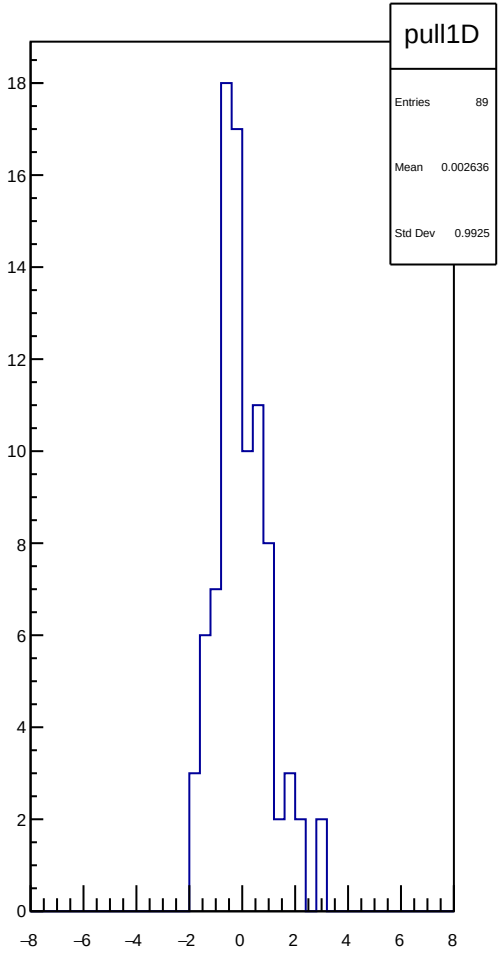

diff_bpm0l07Y_rms vs run
χ² / ndf 2540 / 88
p0 928.1 ± 0.694
1020
1000
980
960
940
920
900
880
860
840

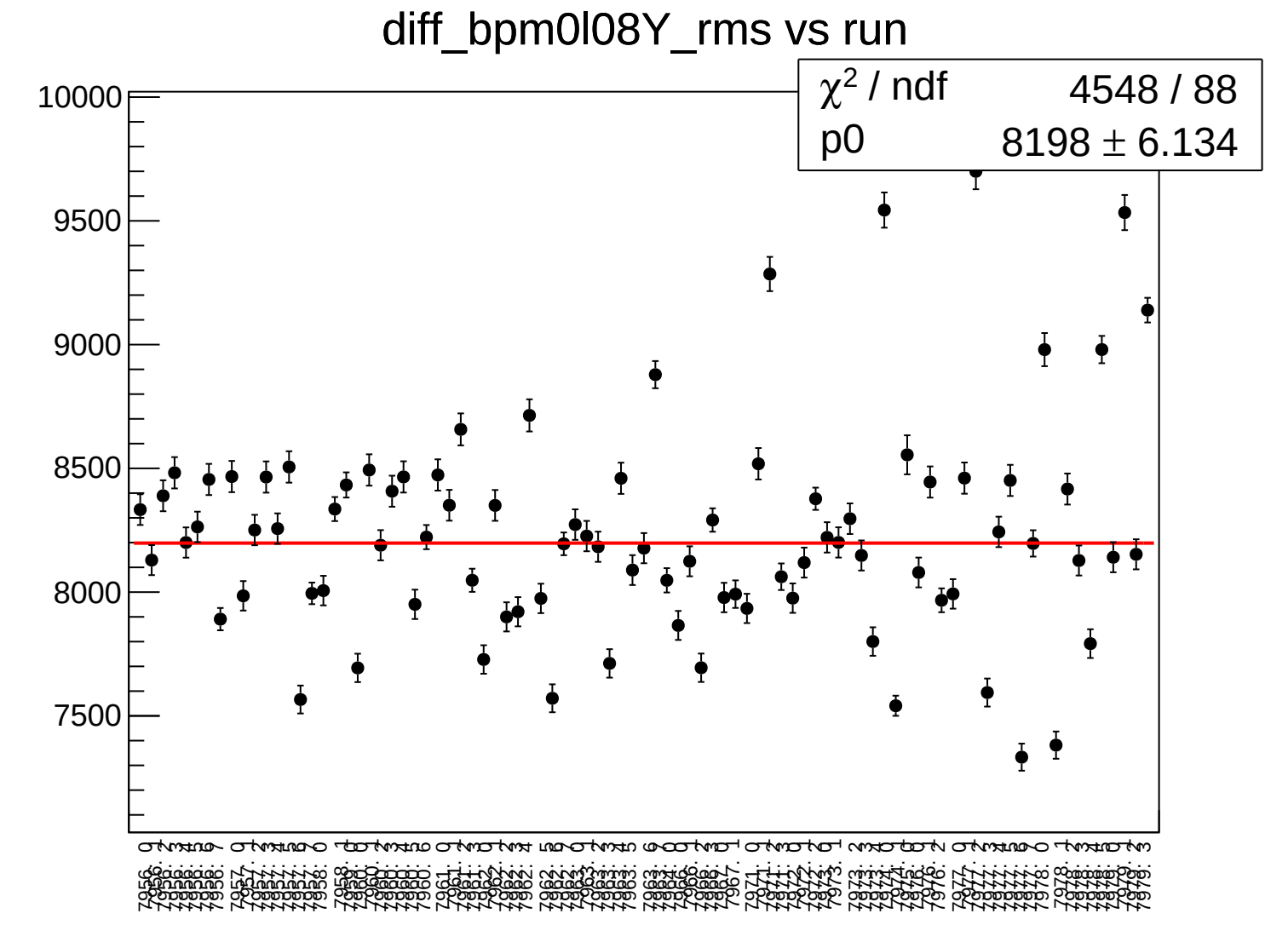

diff_bpm0l08X_mean vs run
χ² / ndf 93.22 / 88
p0 −5.01 ± 11.34
pull
Entries 89
Mean −297
Std Dev 0

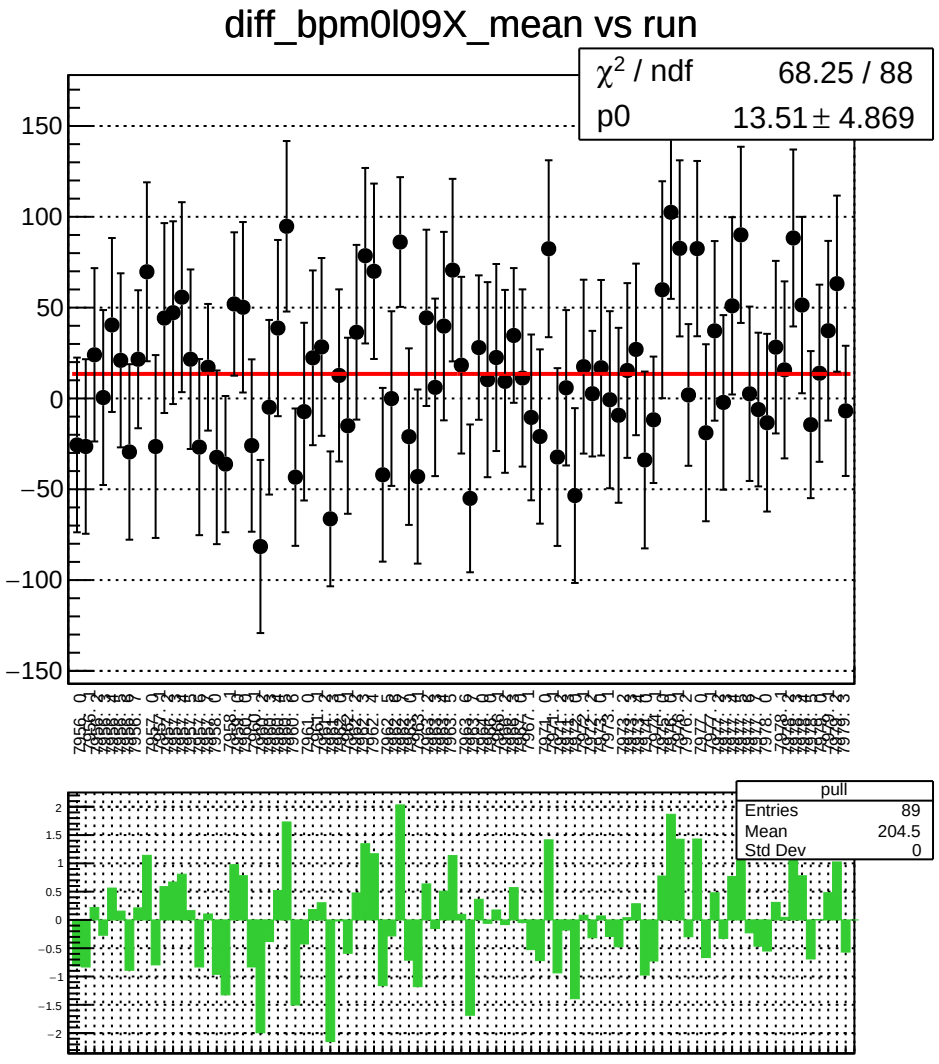

pull1D
Entries 89
Mean −0.00571
Std Dev 1.023

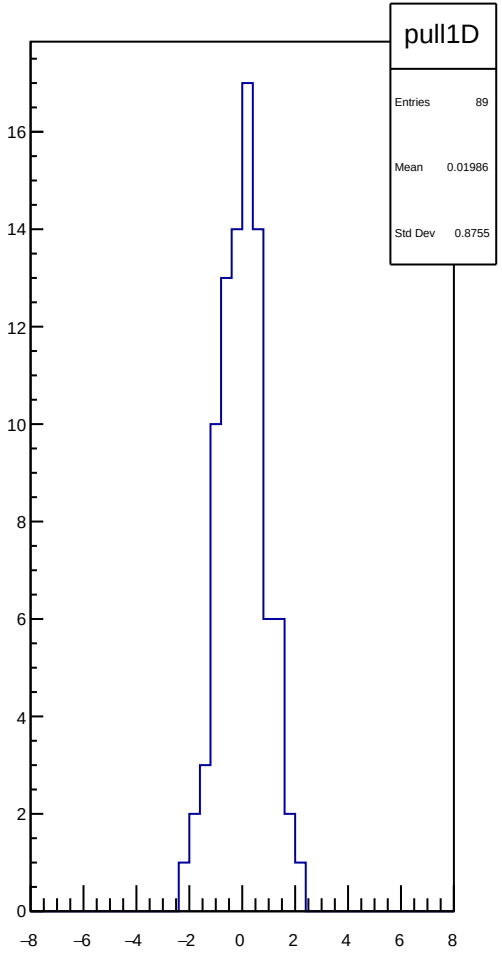

diff_bpm0l08X_rms vs run
χ² / ndf 5310 / 88
p0 1.071e+04 ± 8.017
13000
12500
12000
11500
11000
10500
10000
9500

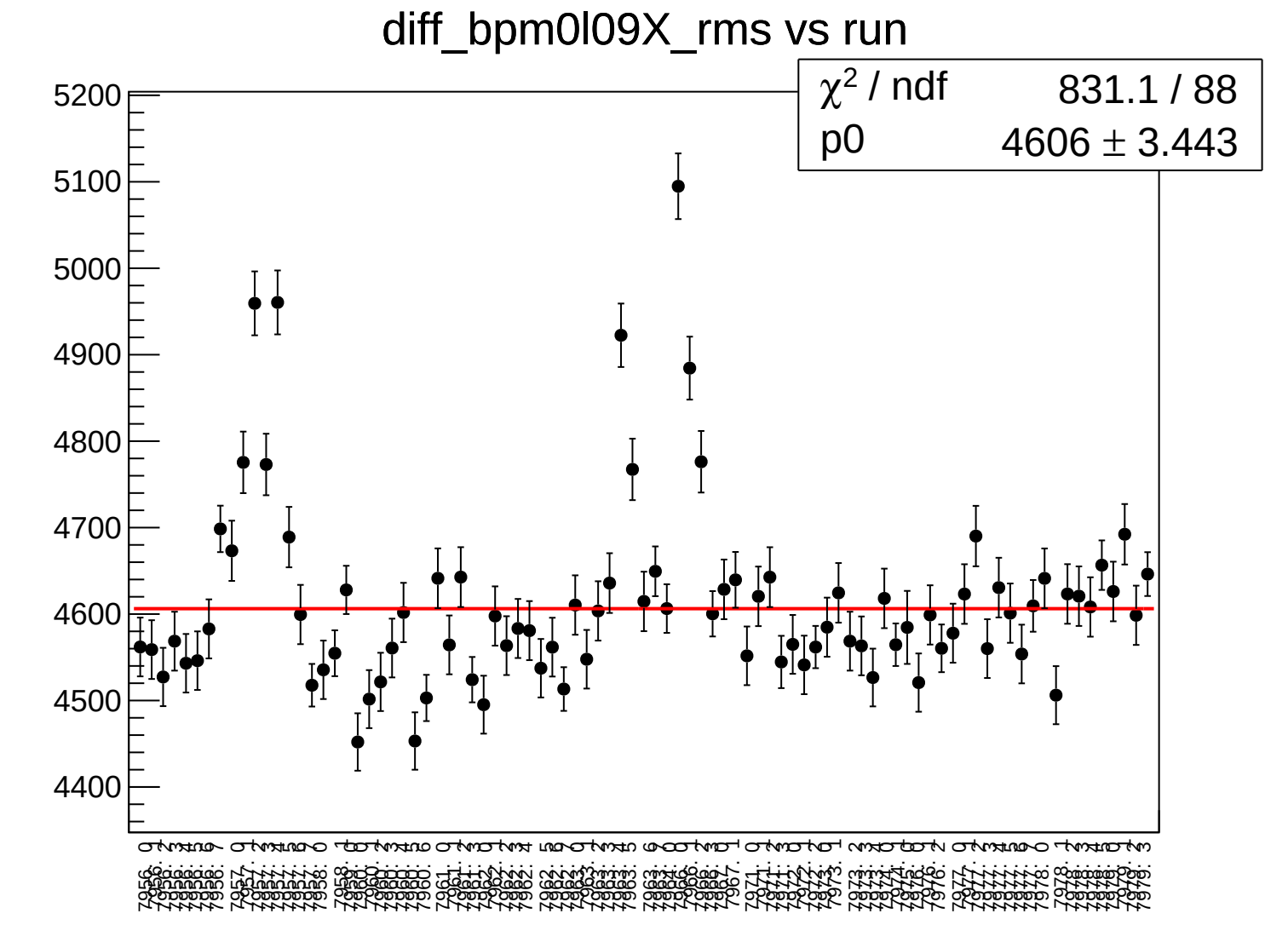

diff_bpm0l08Y_mean vs run
χ² / ndf 87.67 / 88
p0 12.08 ± 8.675
pull
Entries 89
Mean −643.9
Std Dev 0

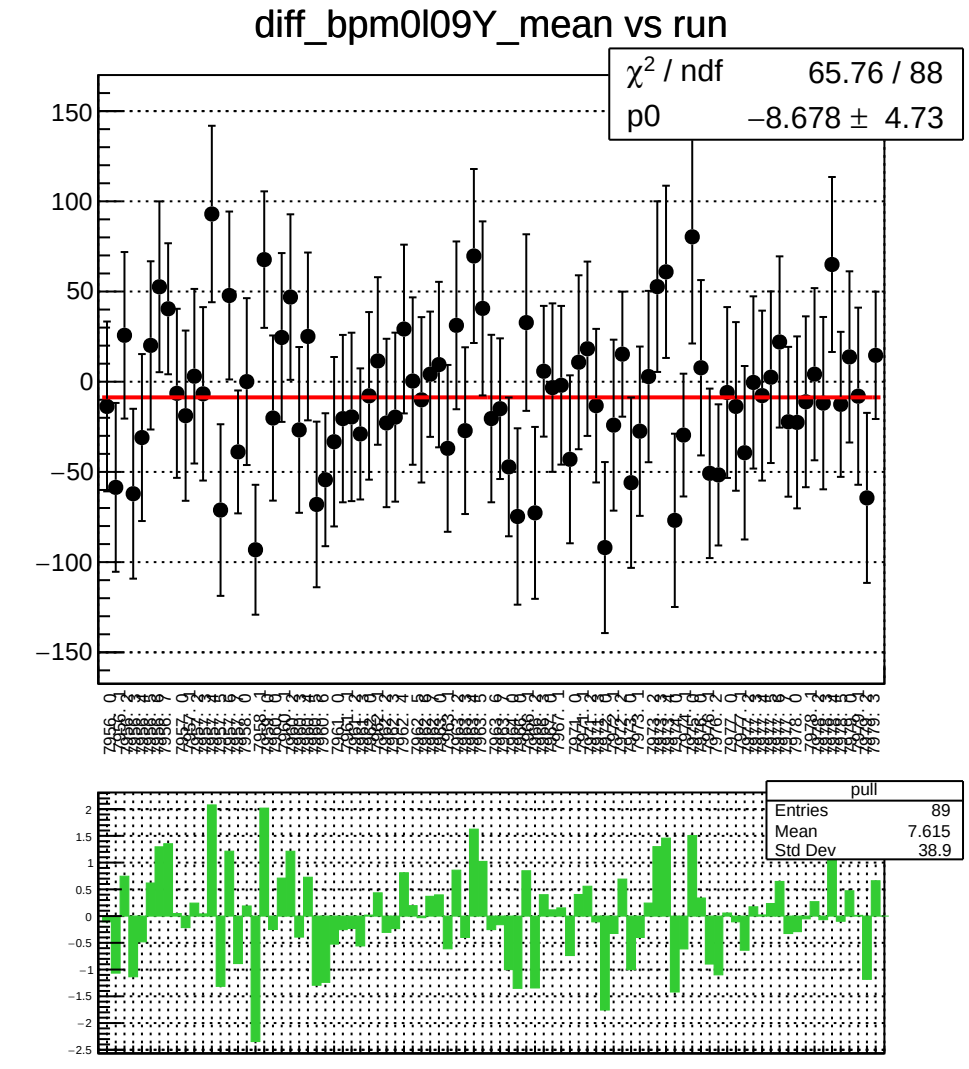

pull1D
Entries 89
Mean 0.002636
Std Dev 0.9925

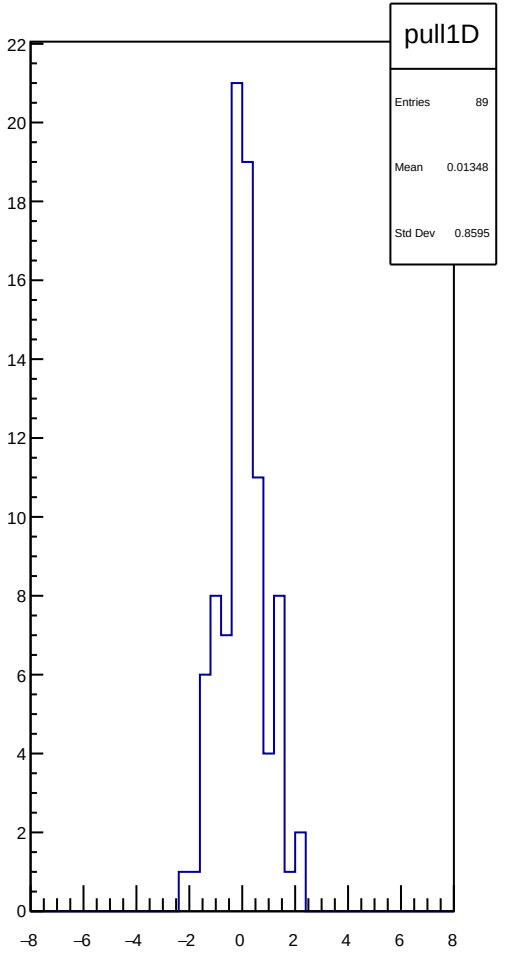

diff_bpm0l08Y_rms vs run
$\chi^2$ / ndf 4548 / 88
p0 8198 ± 6.134
10000
9500
9000
8500
8000
7500

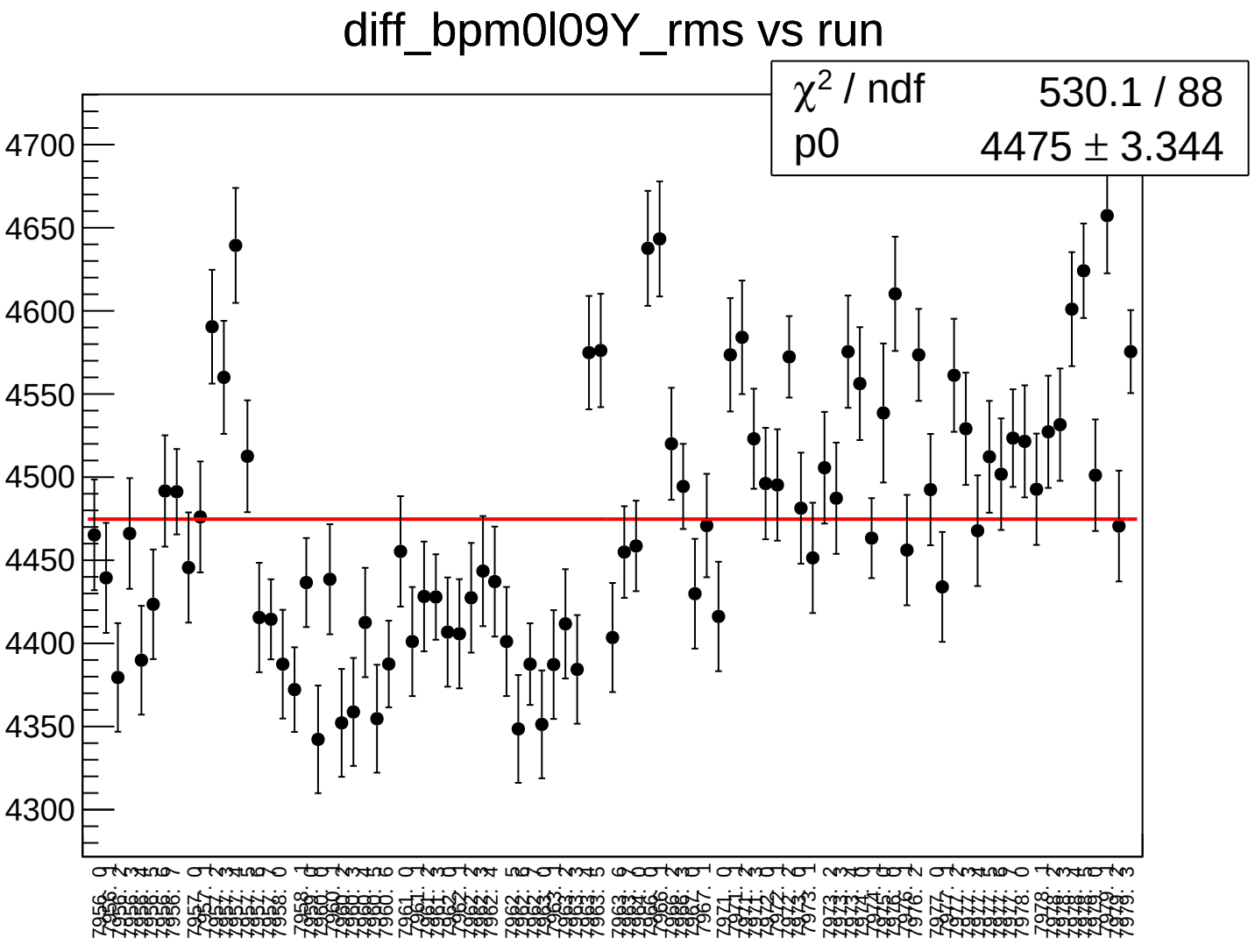

diff_bpm0l09X_mean vs run
$\chi^2$ / ndf 68.25 / 88
p0 13.51 ± 4.869
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 204.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

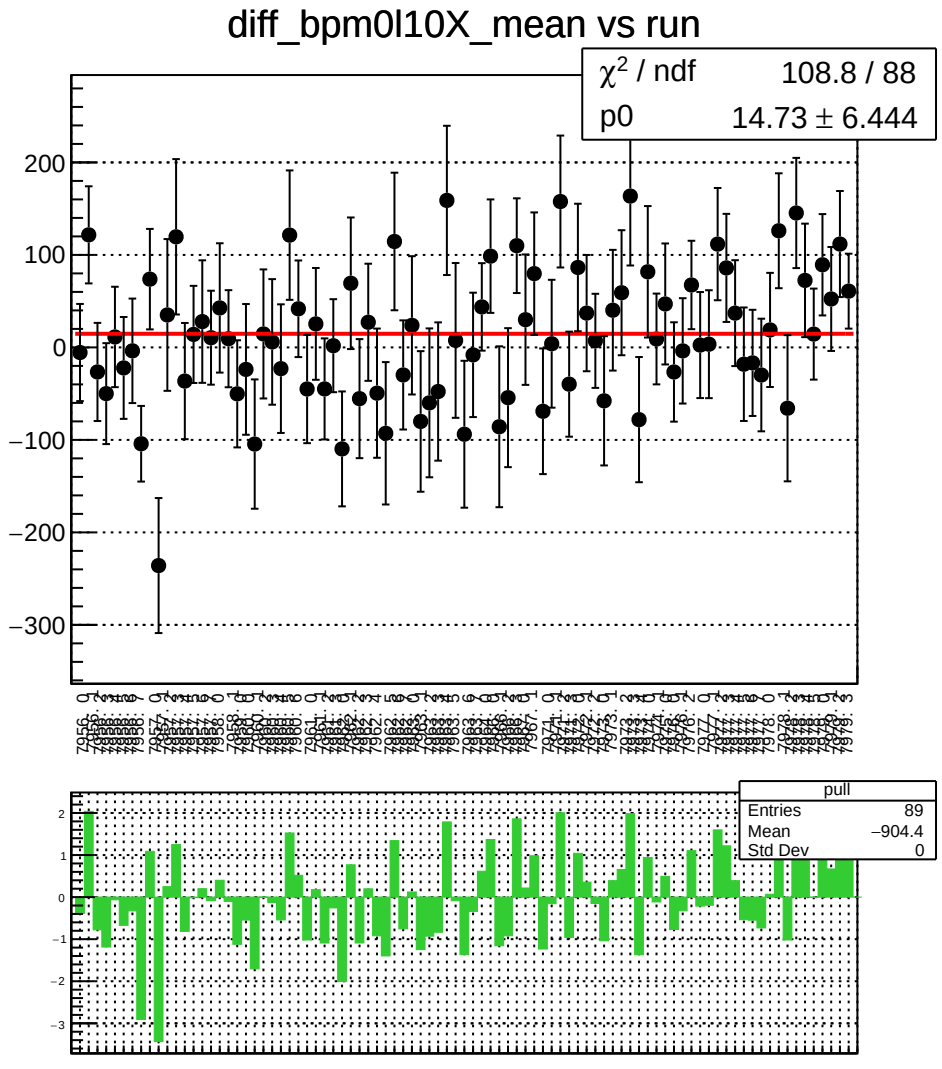

pull1D
Entries 89
Mean 0.01986
Std Dev 0.8755
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

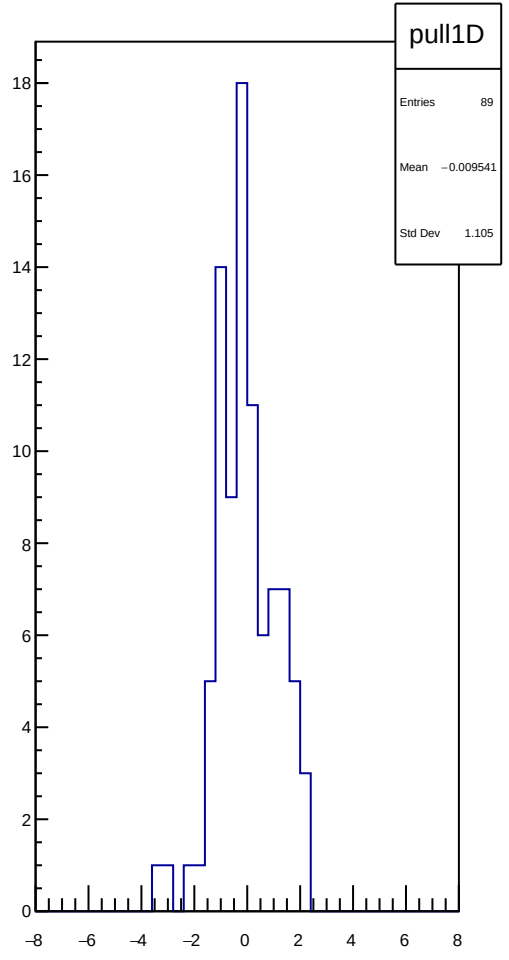

diff_bpm0l09X_rms vs run
$\chi^2$ / ndf 831.1 / 88
p0 4606 ± 3.443
5200
5100
5000
4900
4800
4700
4600
4500
4400

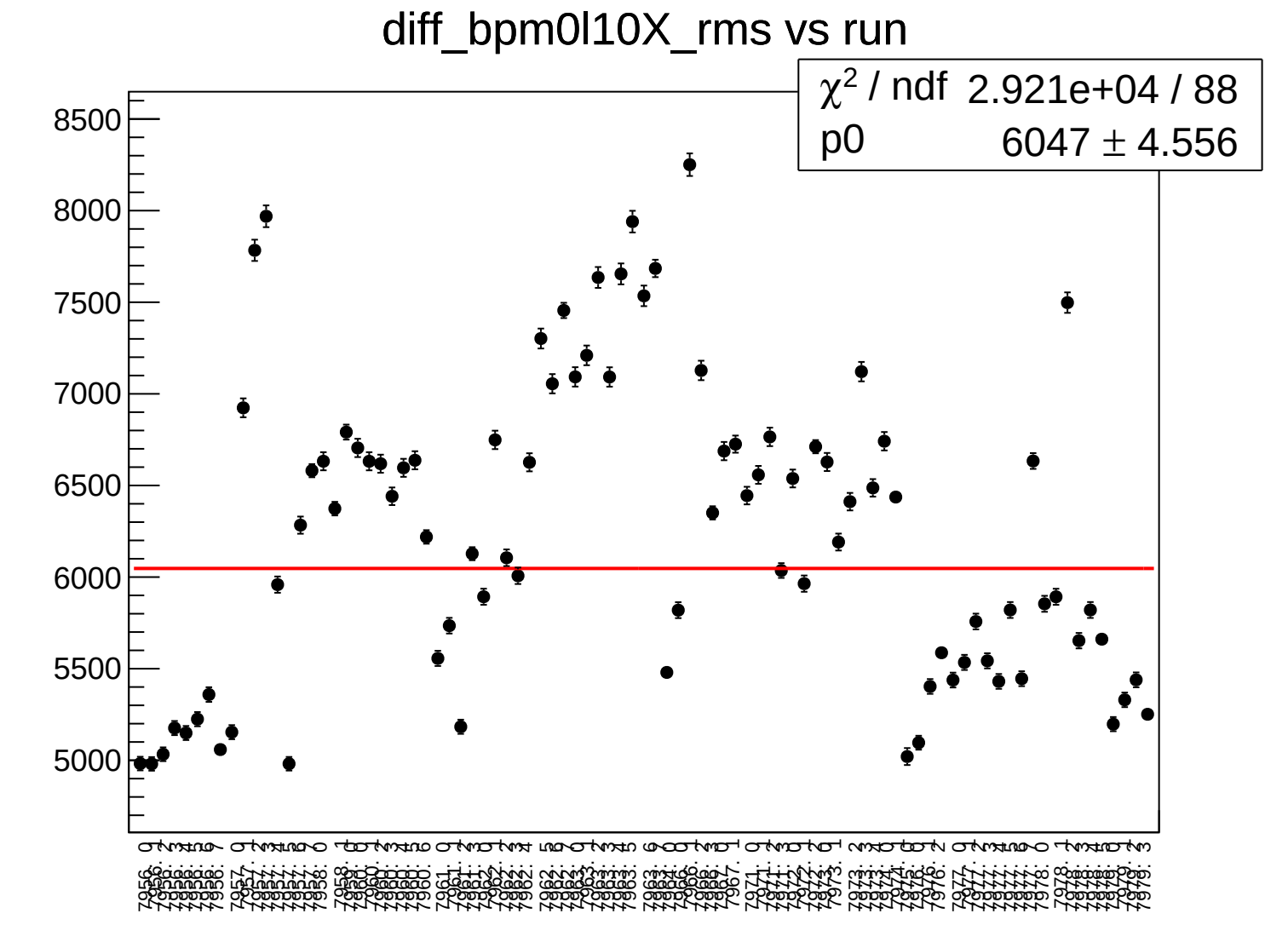

diff_bpm0l09Y_mean vs run
χ² / ndf 65.76 / 88
p0 −8.678 ± 4.73
pull
Entries 89
Mean 7.615
Std Dev 38.9

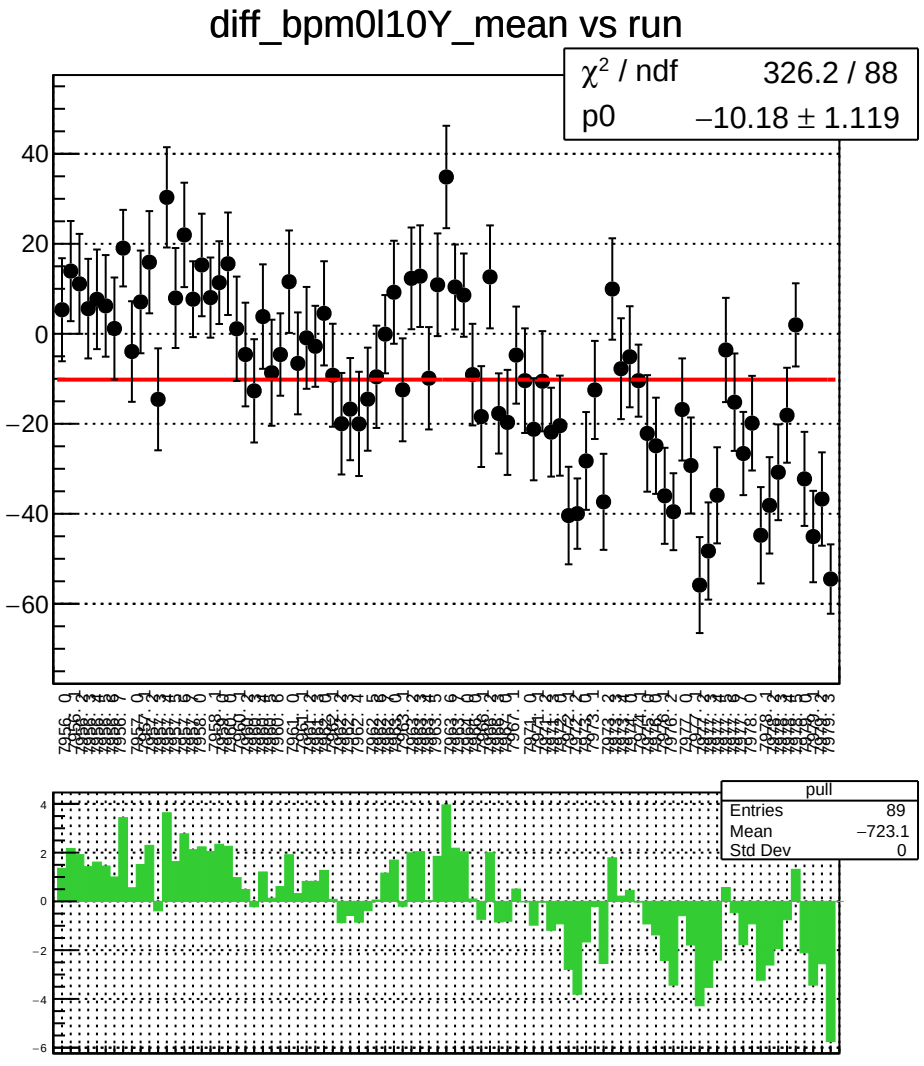

pull1D
Entries 89
Mean 0.01348
Std Dev 0.8595

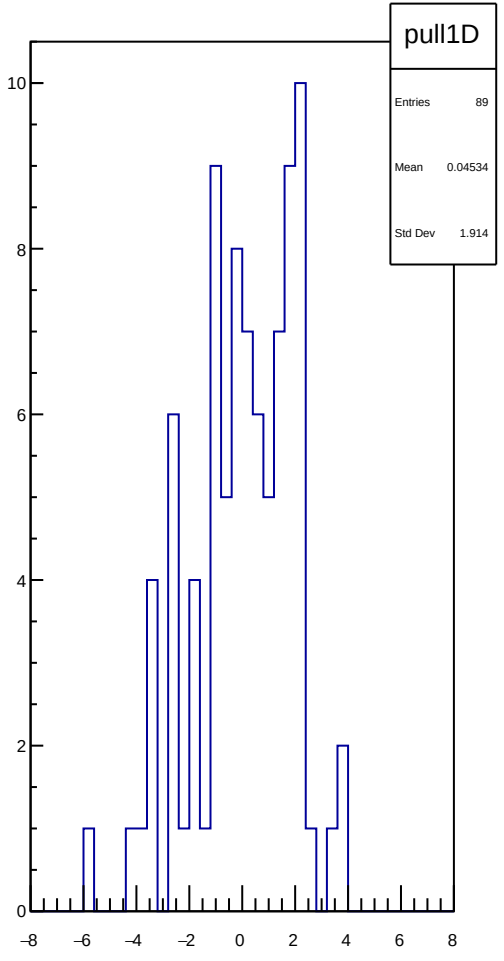

diff_bpm0l09Y_rms vs run
χ² / ndf 530.1 / 88
p0 4475 ± 3.344
4700
4650
4600
4550
4500
4450
4400
4350
4300

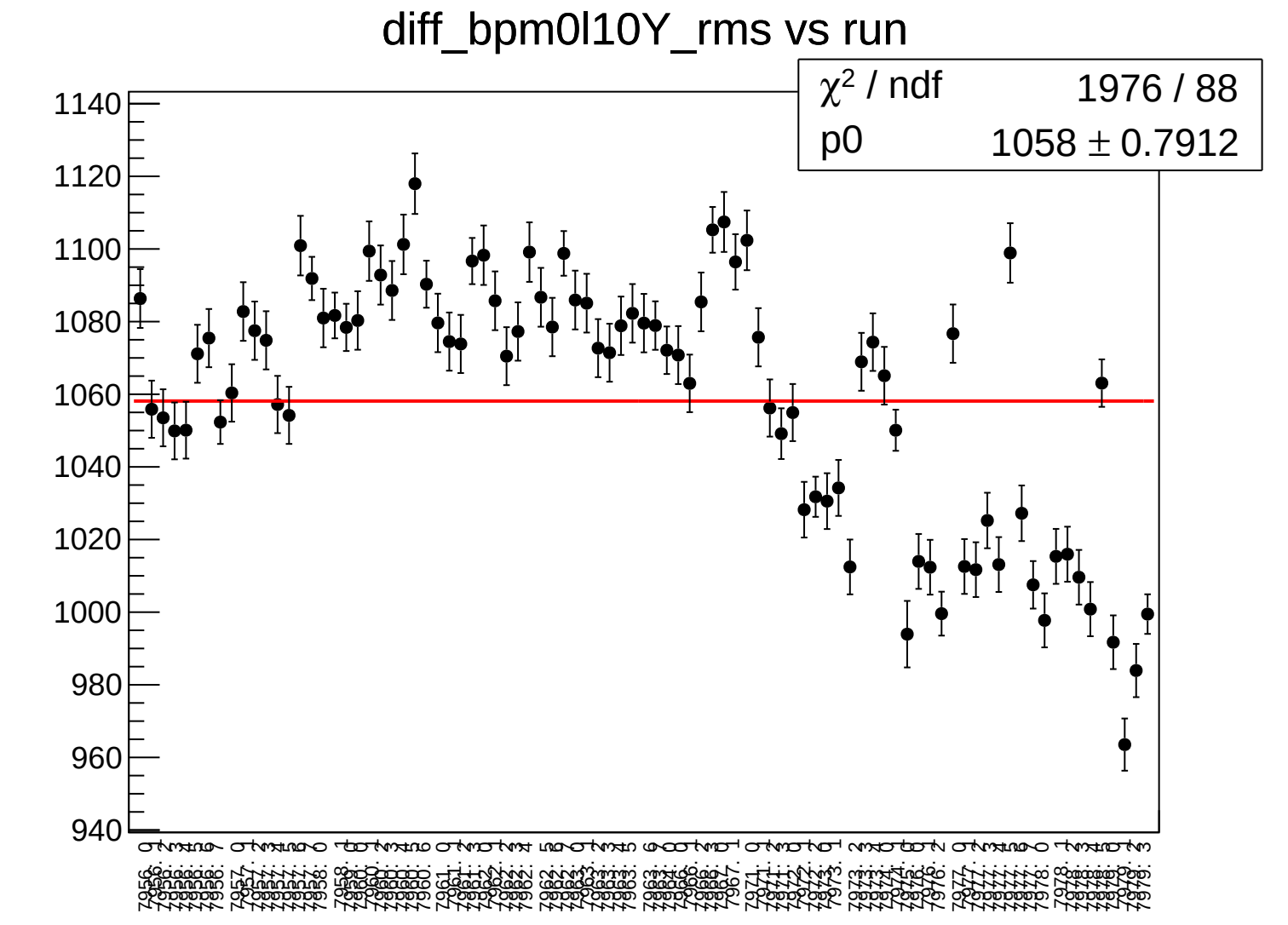

diff_bpm0l10X_mean vs run
$\chi^2$ / ndf 108.8 / 88
p0 14.73 ± 6.444
200
100
0
−100
−200
−300
pull
Entries 89
Mean −904.4
Std Dev 0
2
1
0
−1
−2
−3

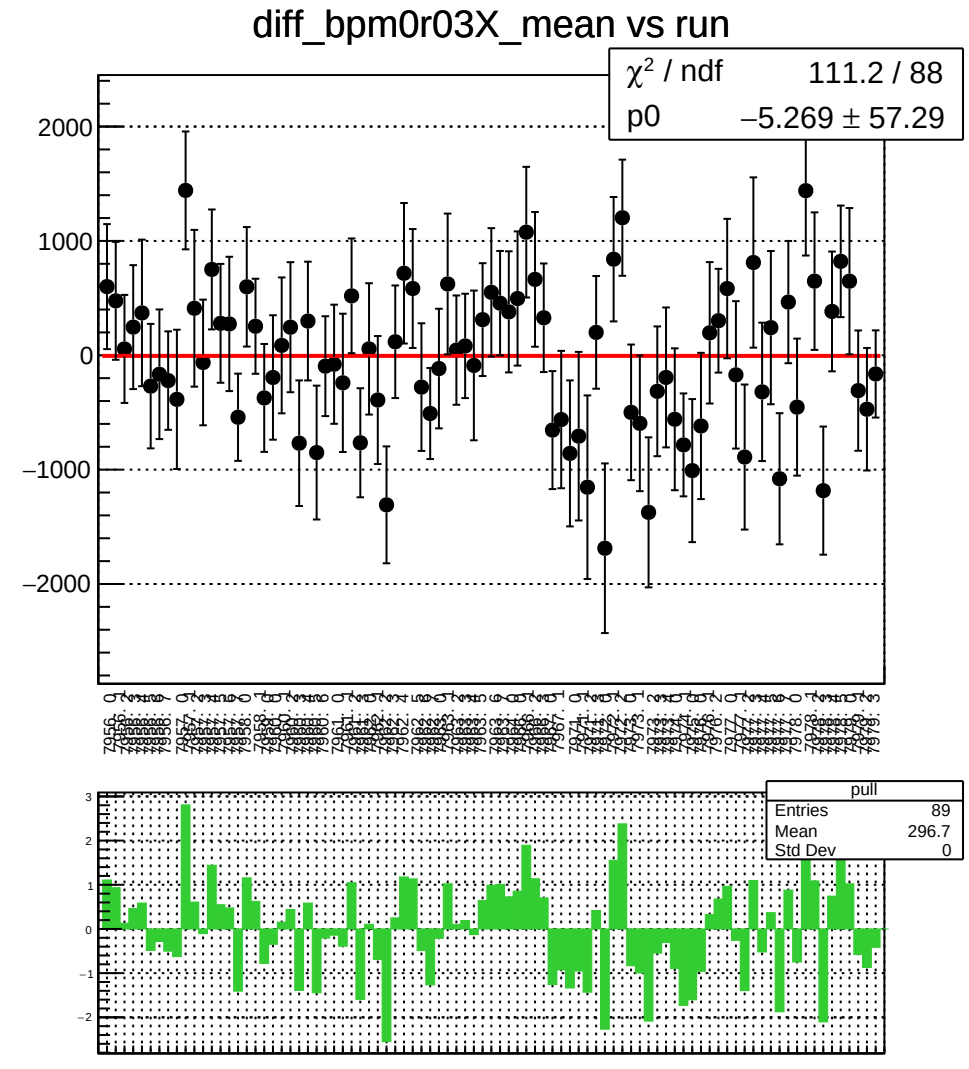

pull1D
Entries 89
Mean −0.009541
Std Dev 1.105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

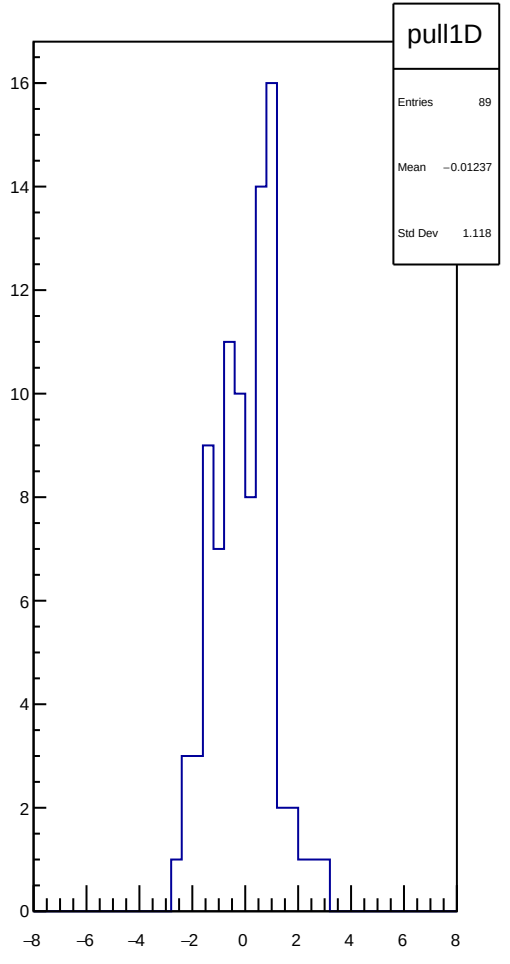

diff_bpm0l10X_rms vs run
χ² / ndf 2.921e+04 / 88
p0 6047 ± 4.556
8500
8000
7500
7000
6500
6000
5500
5000

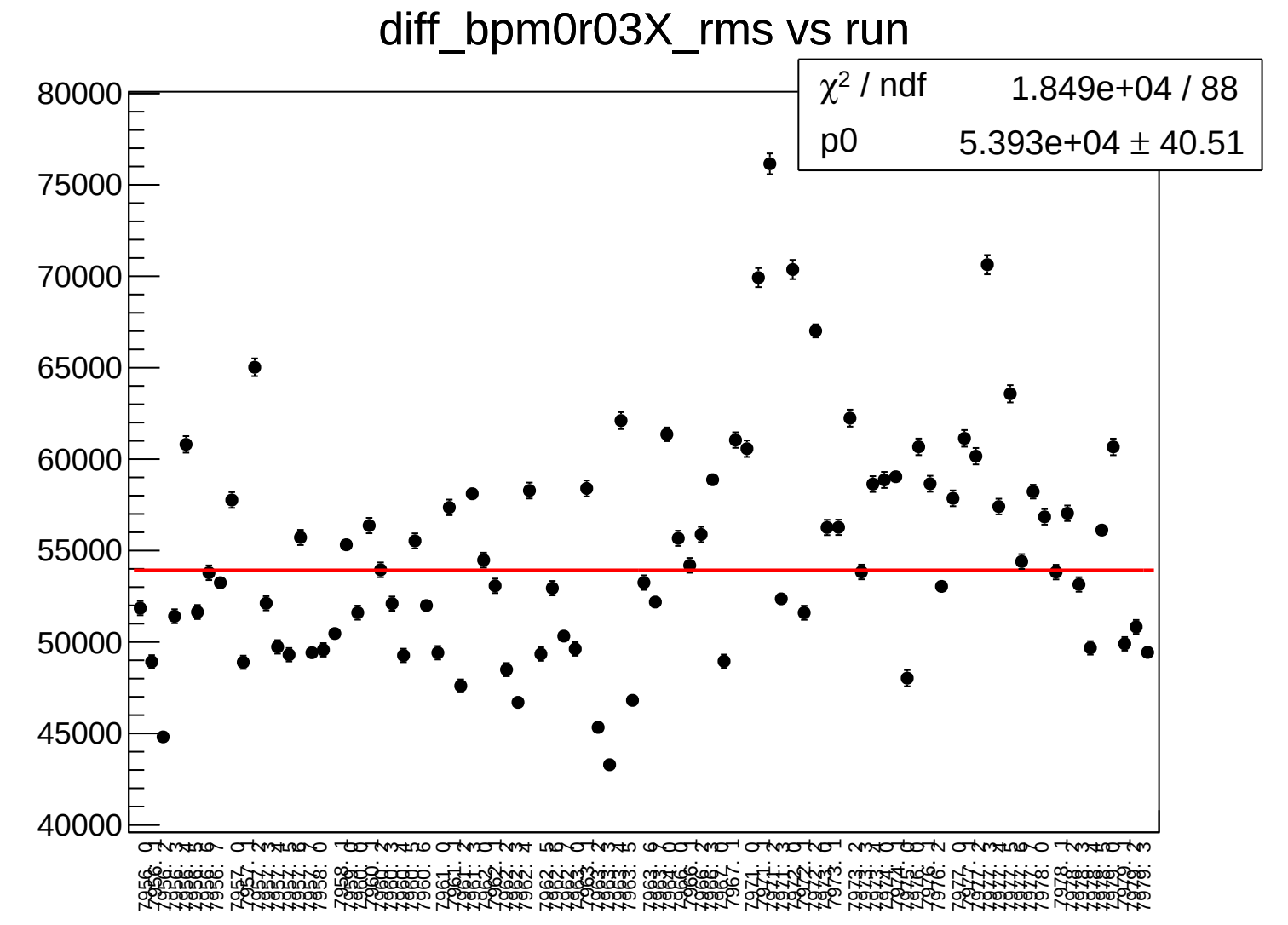

diff_bpm0l10Y_mean vs run
χ² / ndf 326.2 / 88
p0 −10.18 ± 1.119
pull
Entries 89
Mean −723.1
Std Dev 0

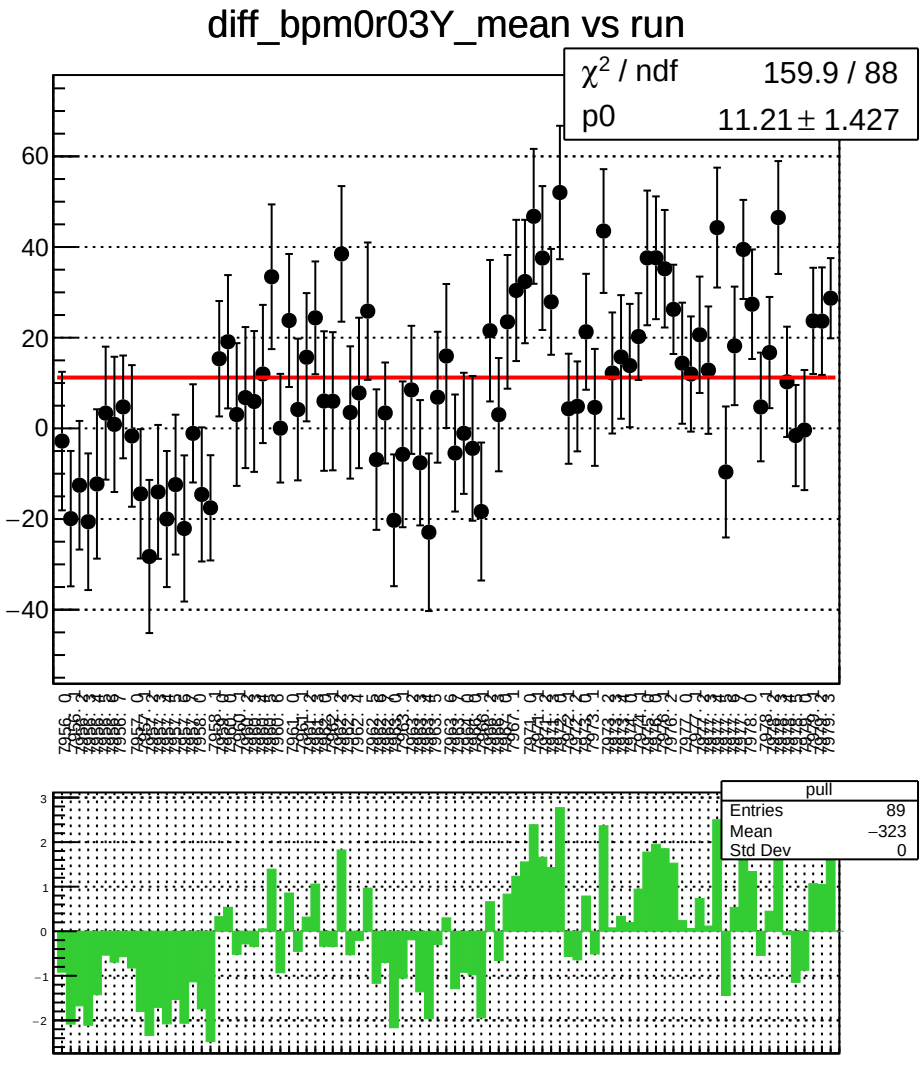

pull1D
Entries 89
Mean 0.04534
Std Dev 1.914

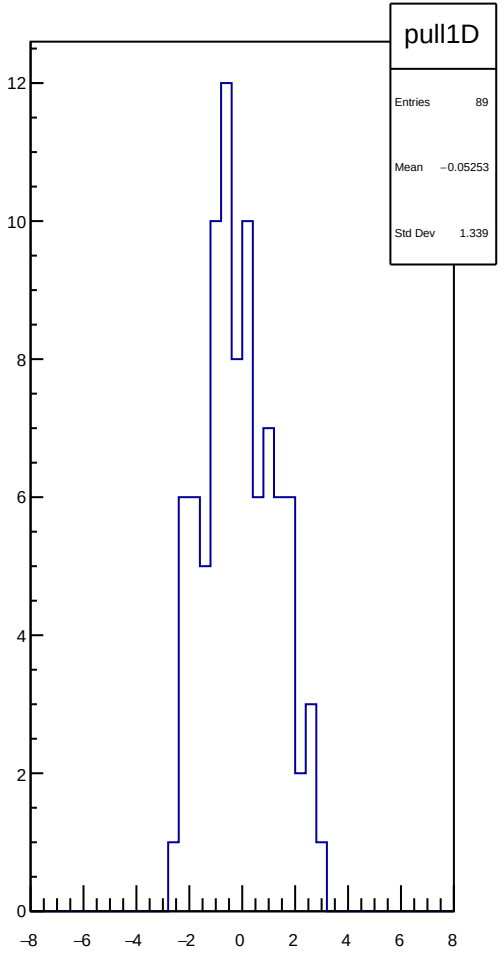

diff_bpm0l10Y_rms vs run
χ² / ndf 1976 / 88
p0 1058 ± 0.7912
1140
1120
1100
1080
1060
1040
1020
1000
980
960
940

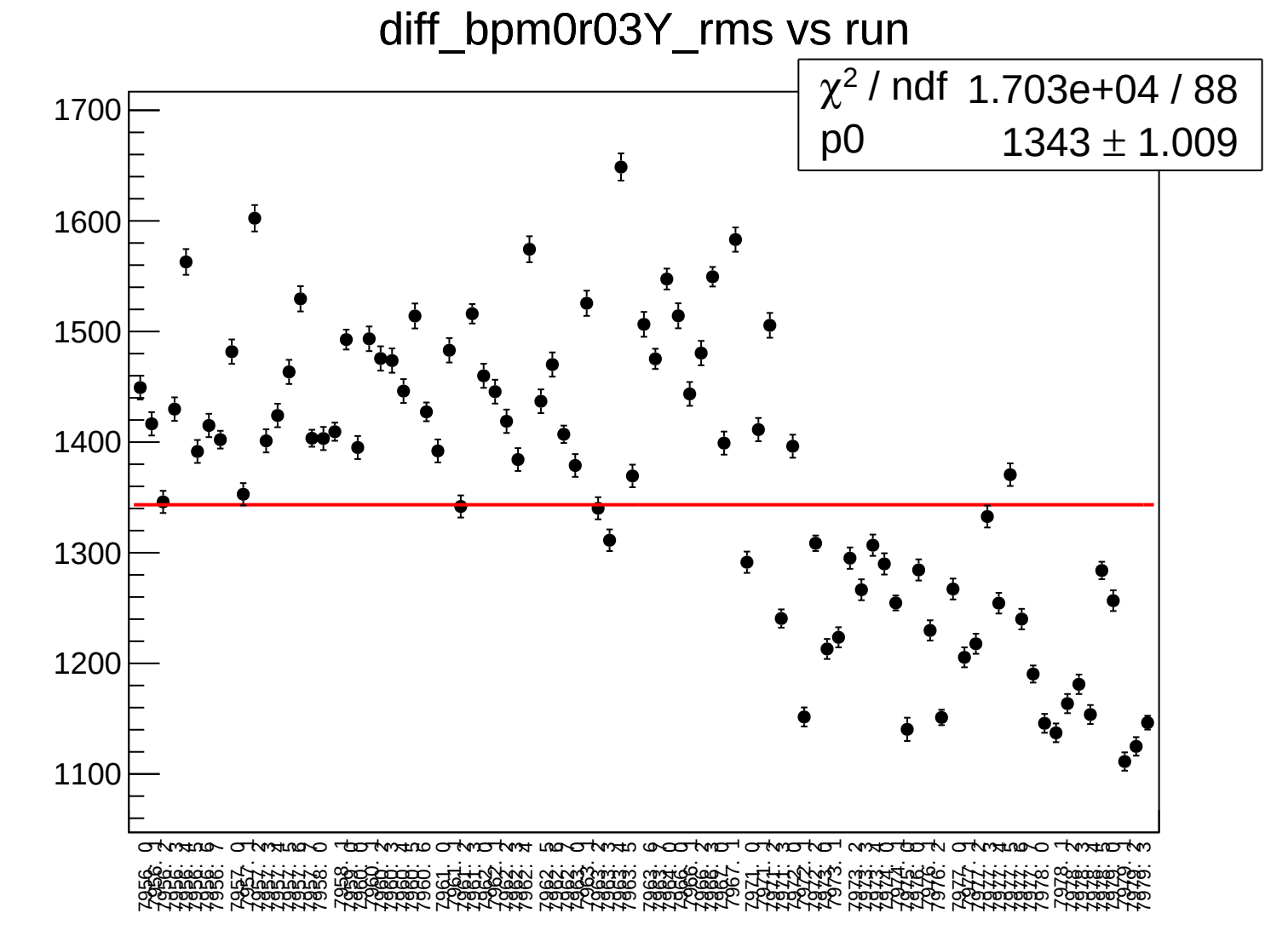

diff_bpm0r03X_mean vs run
χ² / ndf 111.2 / 88
p0 −5.269 ± 57.29
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 296.7
Std Dev 0
3
2
1
0
−1
−2

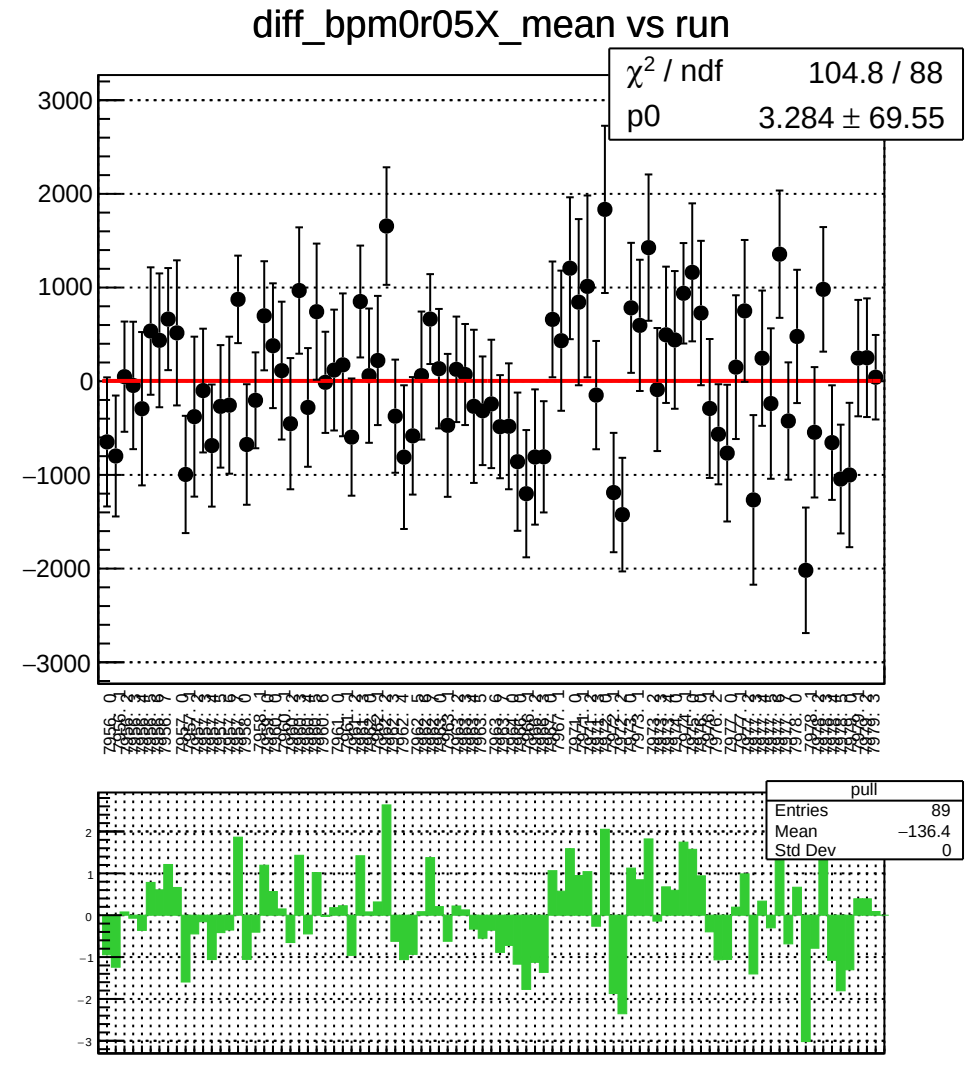

pull1D
Entries 89
Mean −0.01237
Std Dev 1.118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

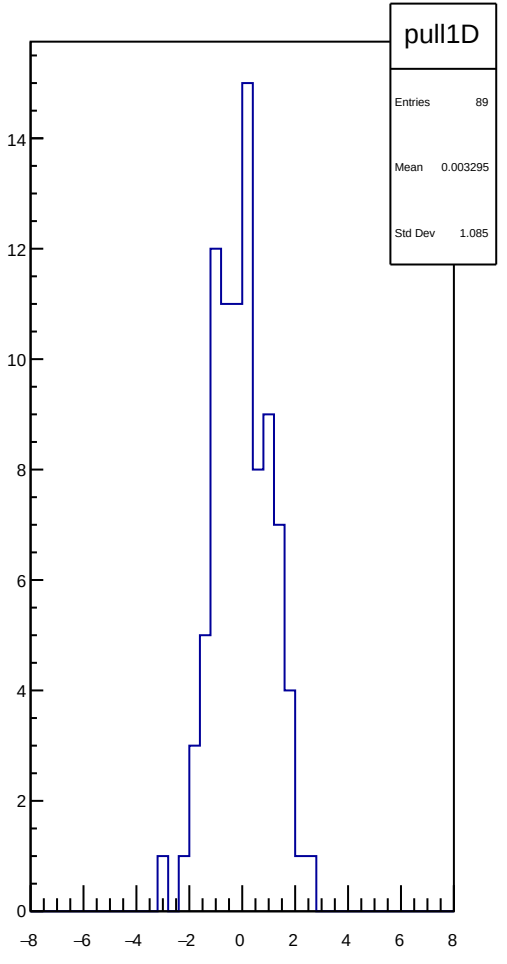

diff_bpm0r03X_rms vs run
χ² / ndf 1.849e+04 / 88
p0 5.393e+04 ± 40.51
80000
75000
70000
65000
60000
55000
50000
45000
40000

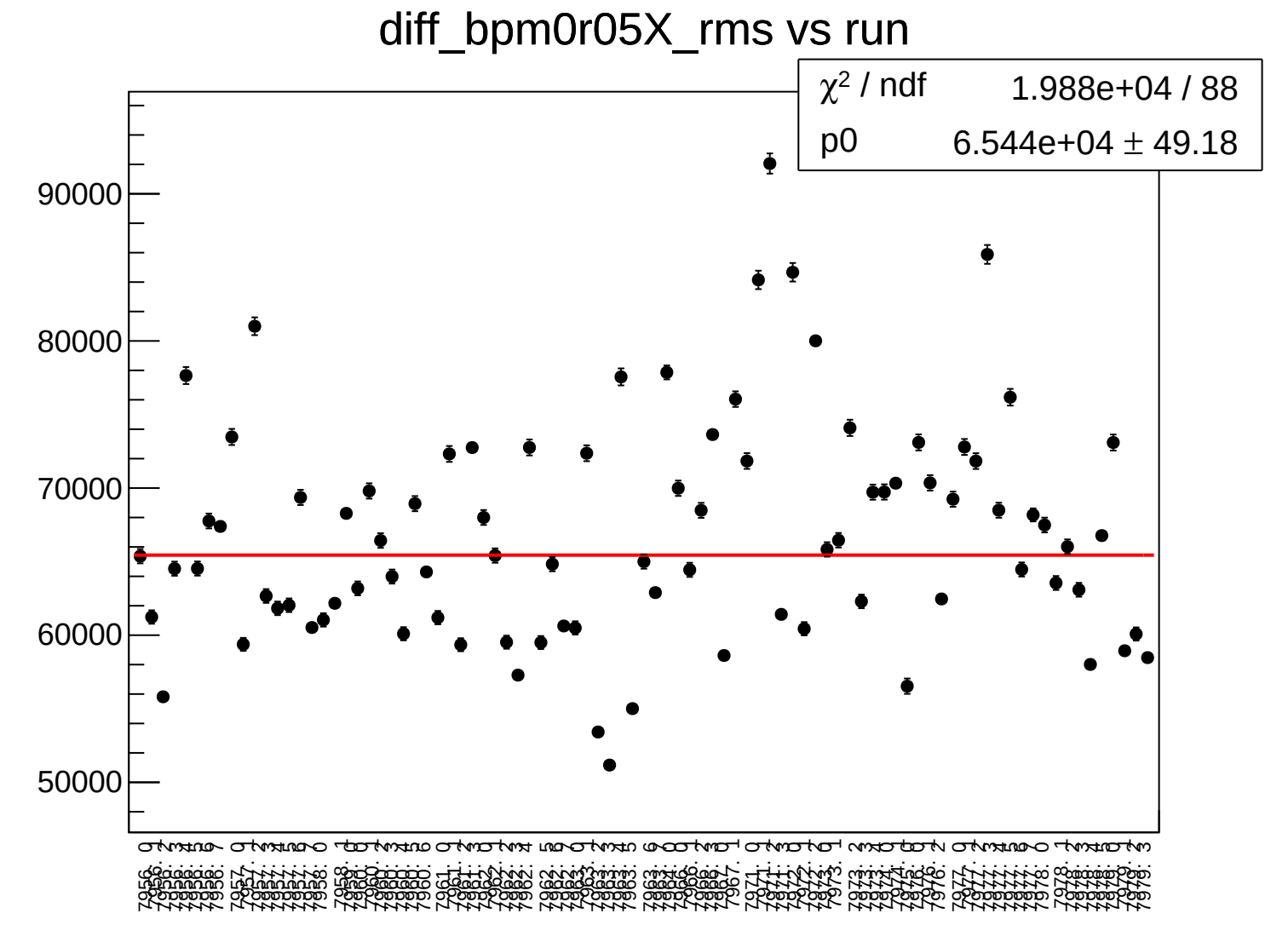

diff_bpm0r03Y_mean vs run
χ² / ndf 159.9 / 88
p0 11.21 ± 1.427
pull
Entries 89
Mean −323
Std Dev 0

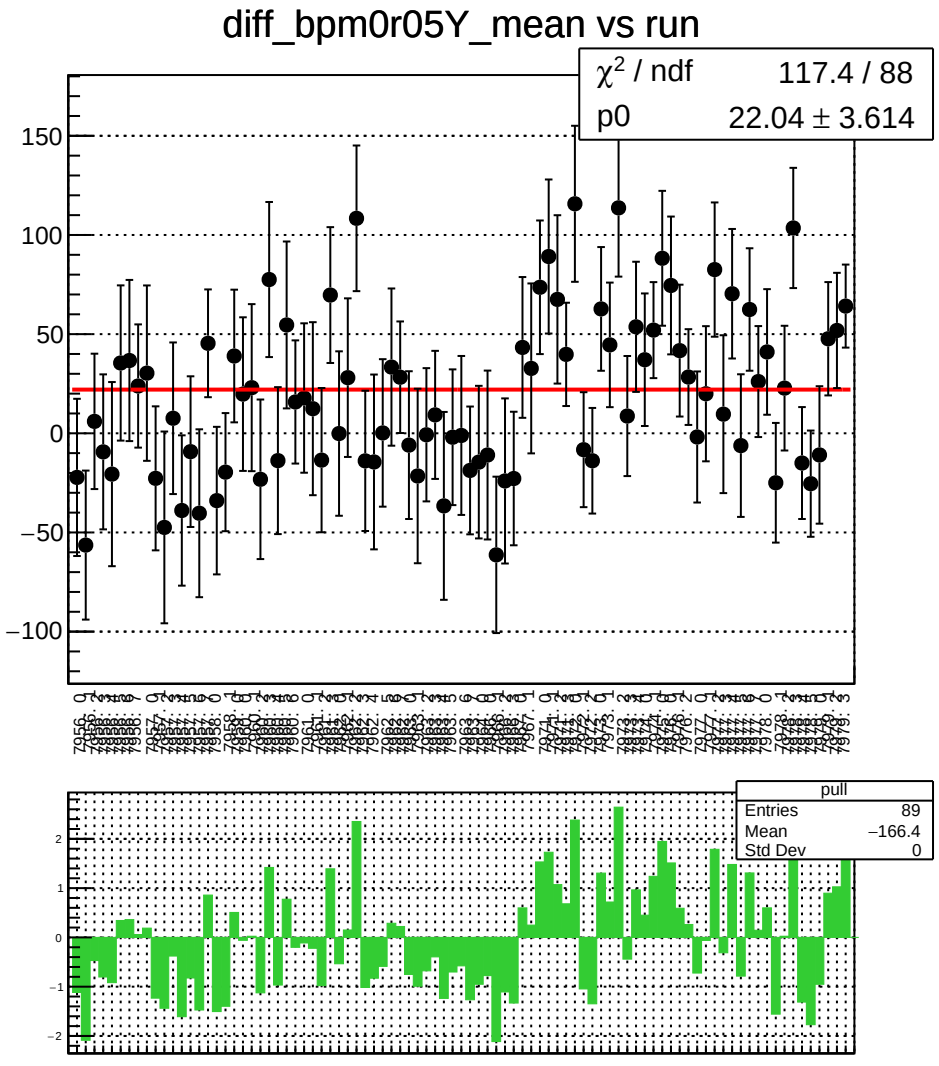

pull1D
Entries 89
Mean −0.05253
Std Dev 1.339

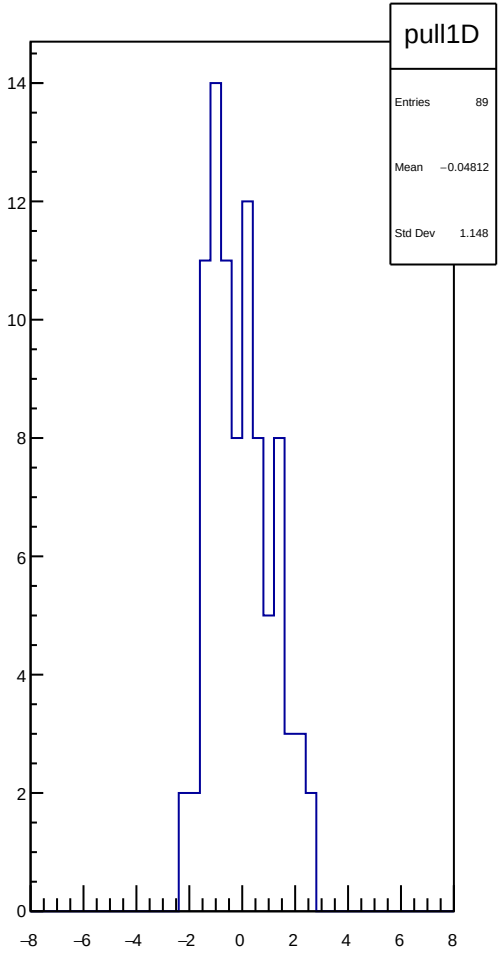

diff_bpm0r03Y_rms vs run
χ² / ndf 1.703e+04 / 88
p0 1343 ± 1.009
1700
1600
1500
1400
1300
1200
1100

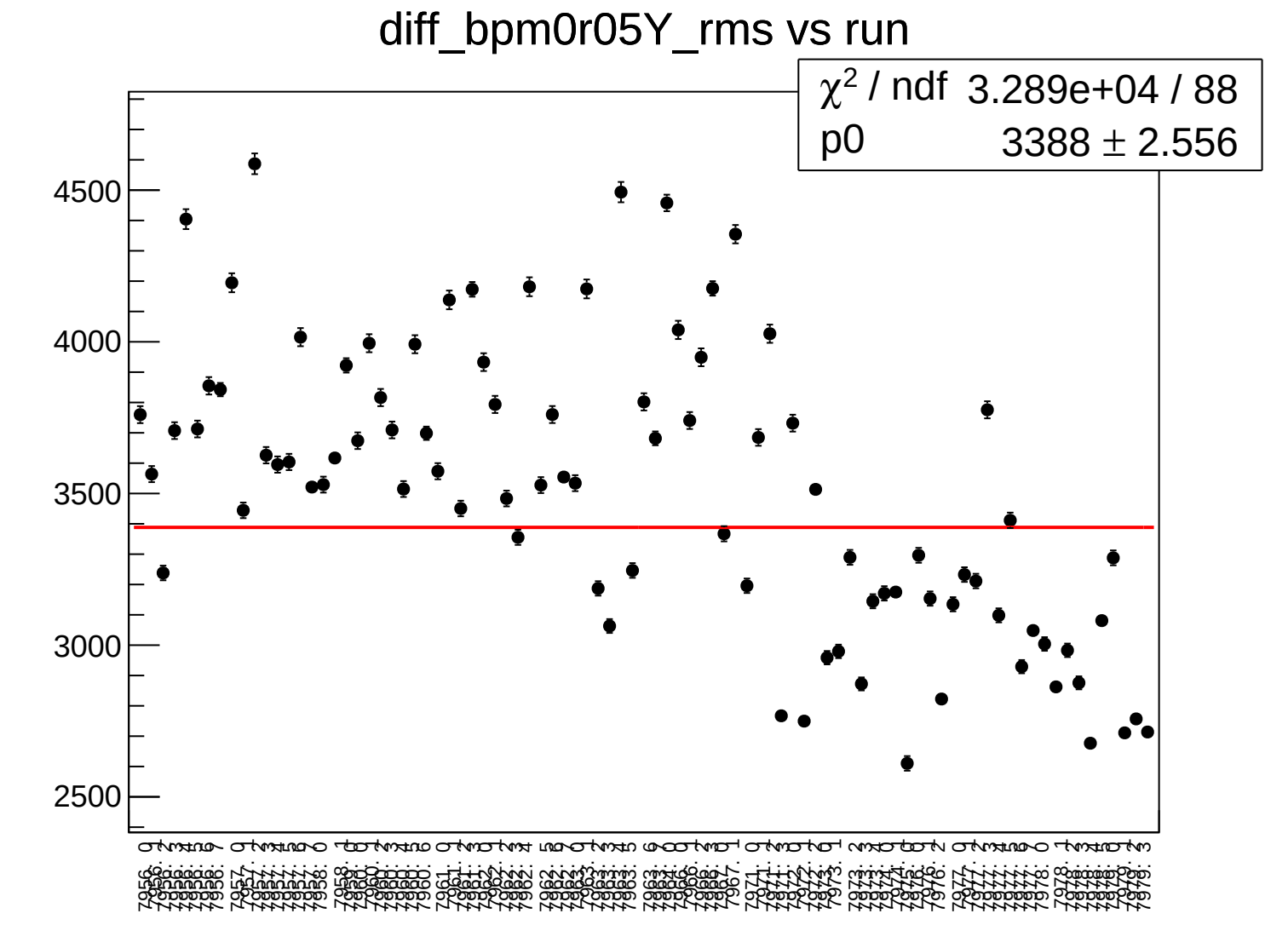

diff_bpm0r05X_mean vs run
χ² / ndf 104.8 / 88
p0 3.284 ± 69.55
pull
Entries 89
Mean −136.4
Std Dev 0

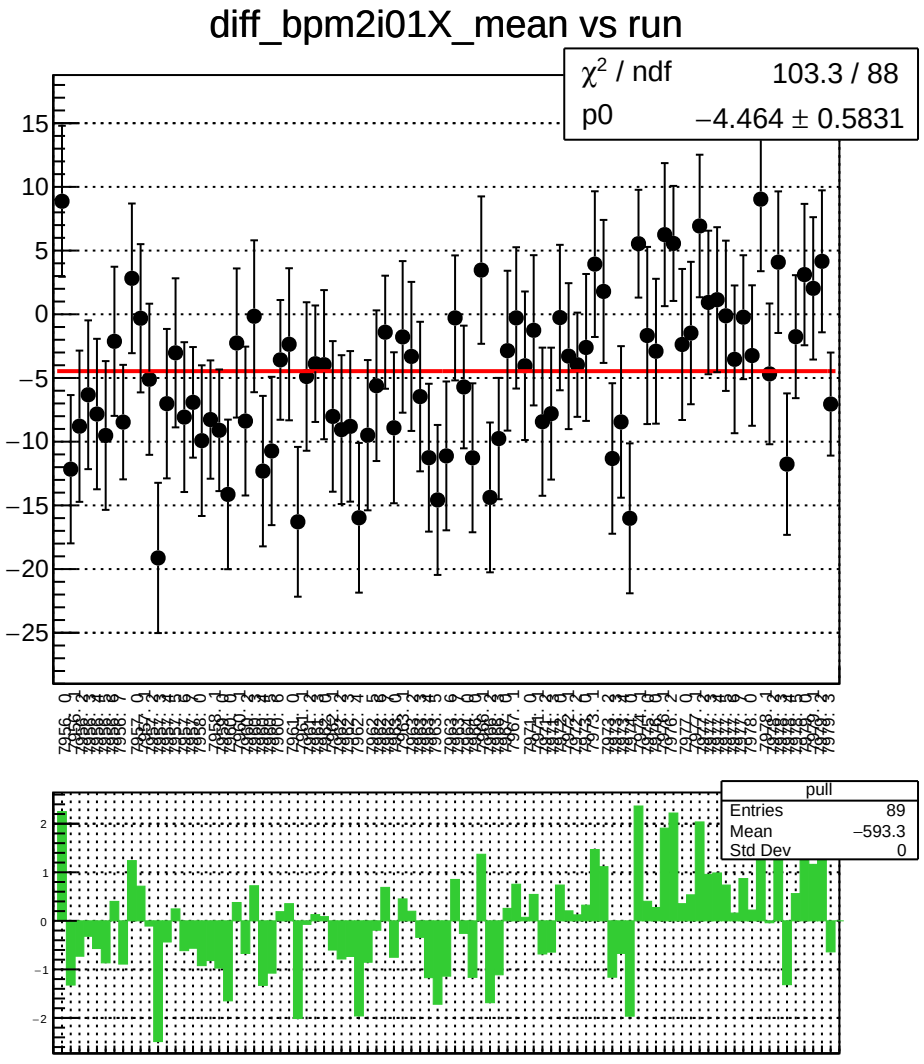

pull1D
Entries 89
Mean 0.003295
Std Dev 1.085

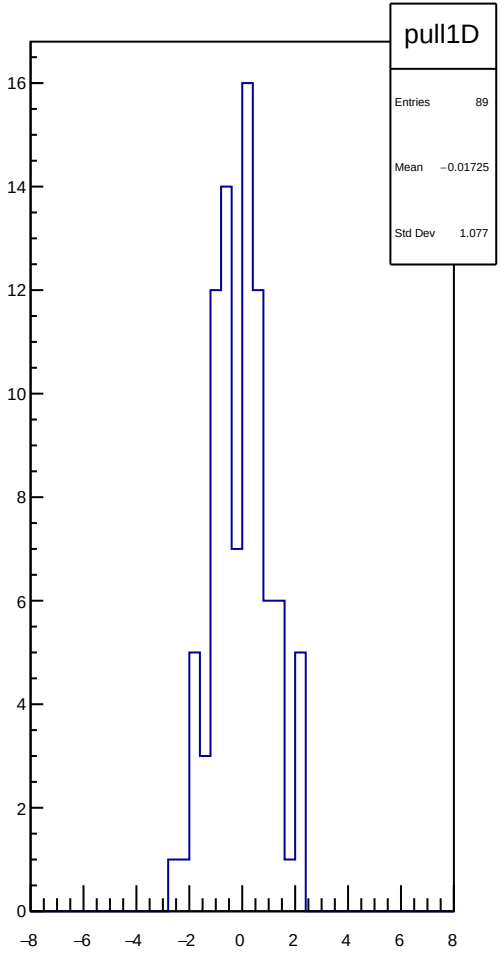

diff_bpm0r05X_rms vs run
χ² / ndf 1.988e+04 / 88
p0 6.544e+04 ± 49.18
90000
80000
70000
60000
50000

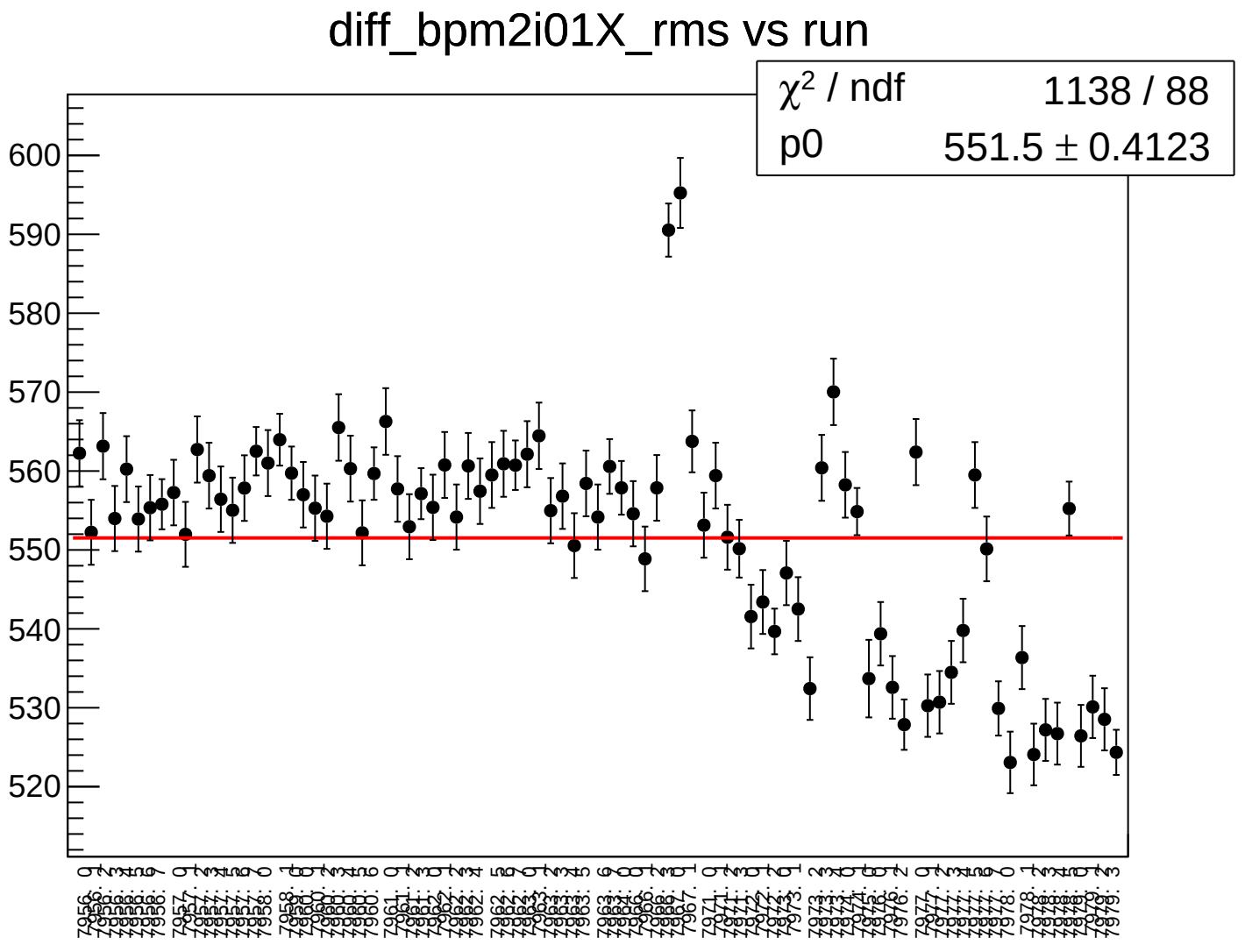

diff_bpm0r05Y_mean vs run
$\chi^2$ / ndf 117.4 / 88
p0 22.04 ± 3.614
150
100
50
0
−50
−100
pull
Entries 89
Mean −166.4
Std Dev 0
2
1
0
−1
−2

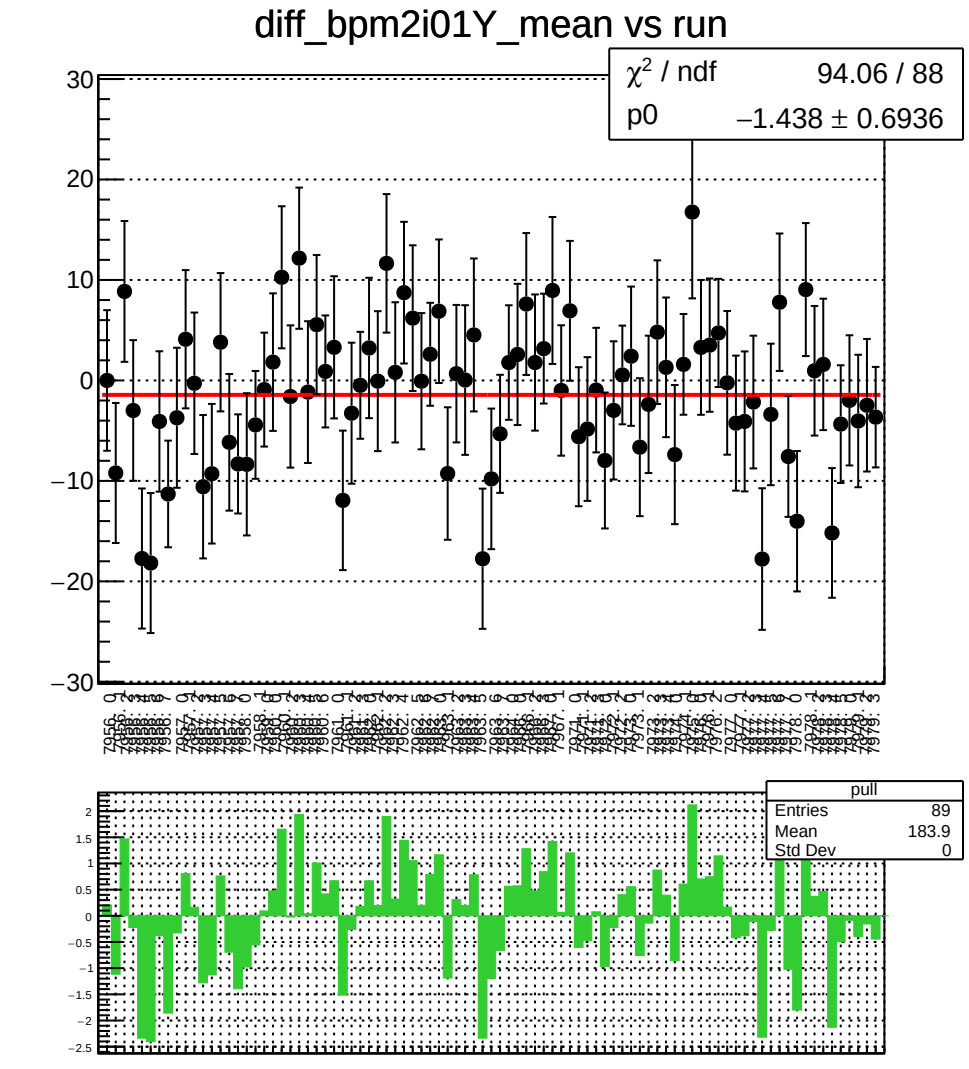

pull1D
Entries 89
Mean −0.04812
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

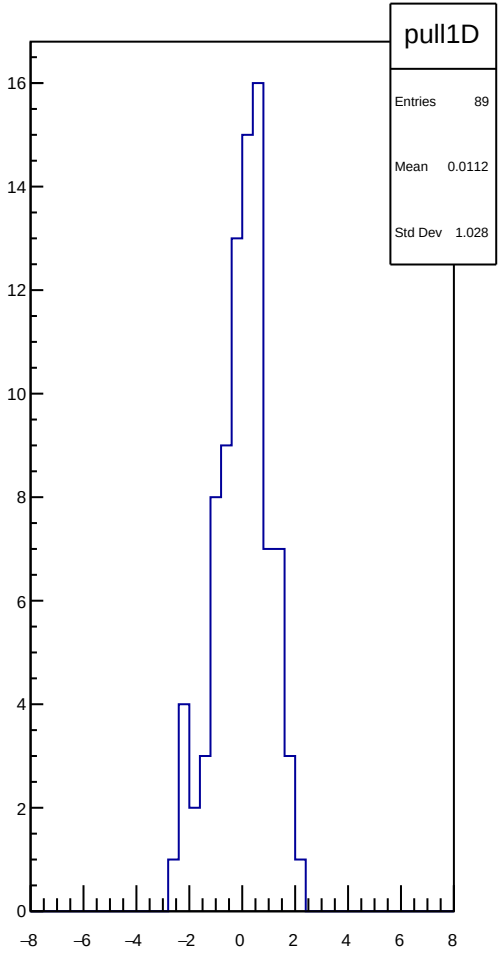

diff_bpm0r05Y_rms vs run
$\chi^2$ / ndf 3.289e+04 / 88
p0 3388 ± 2.556
4500
4000
3500
3000
2500

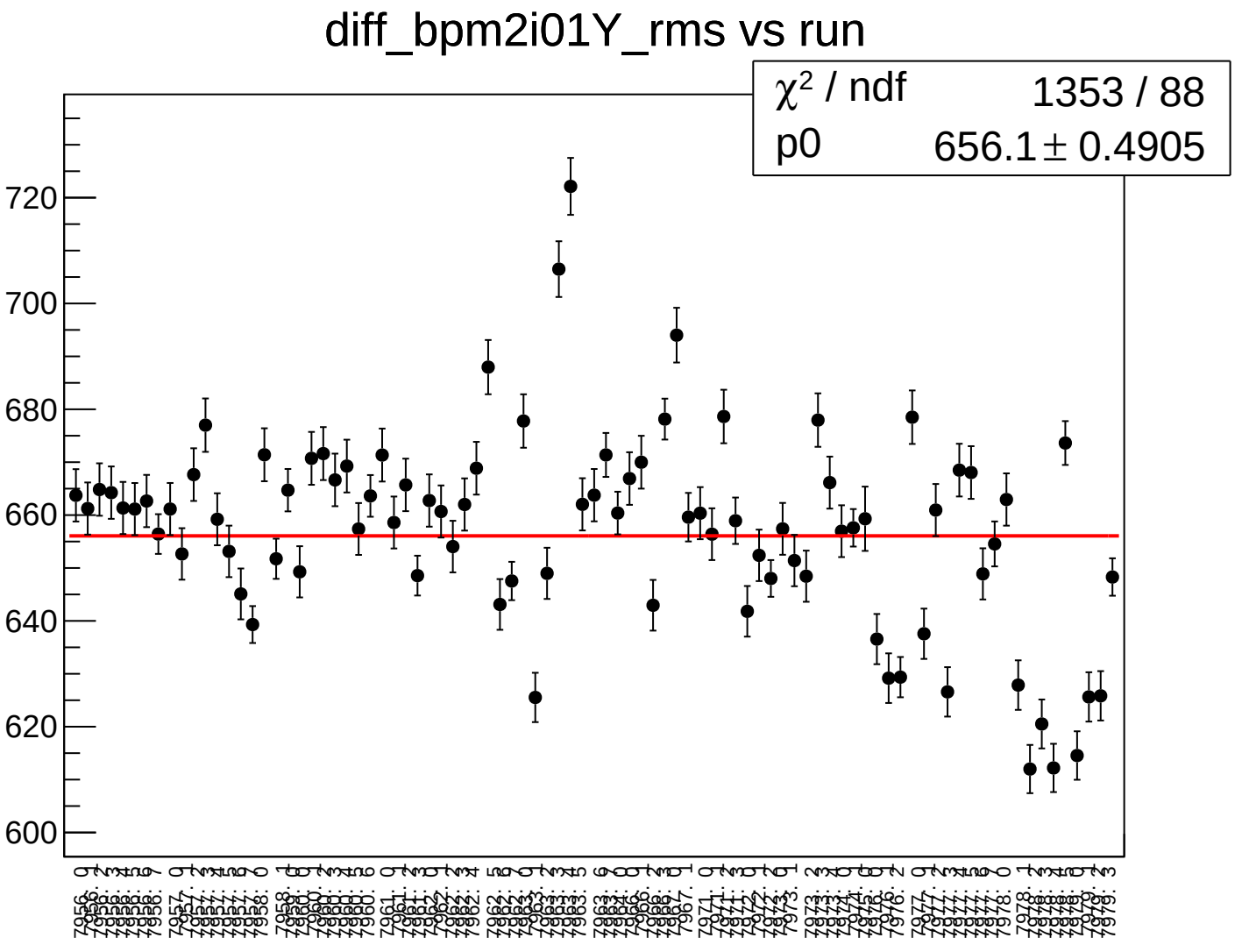

diff_bpm2i01X_mean vs run
χ² / ndf 103.3 / 88
p0 −4.464 ± 0.5831
pull
Entries 89
Mean −593.3
Std Dev 0

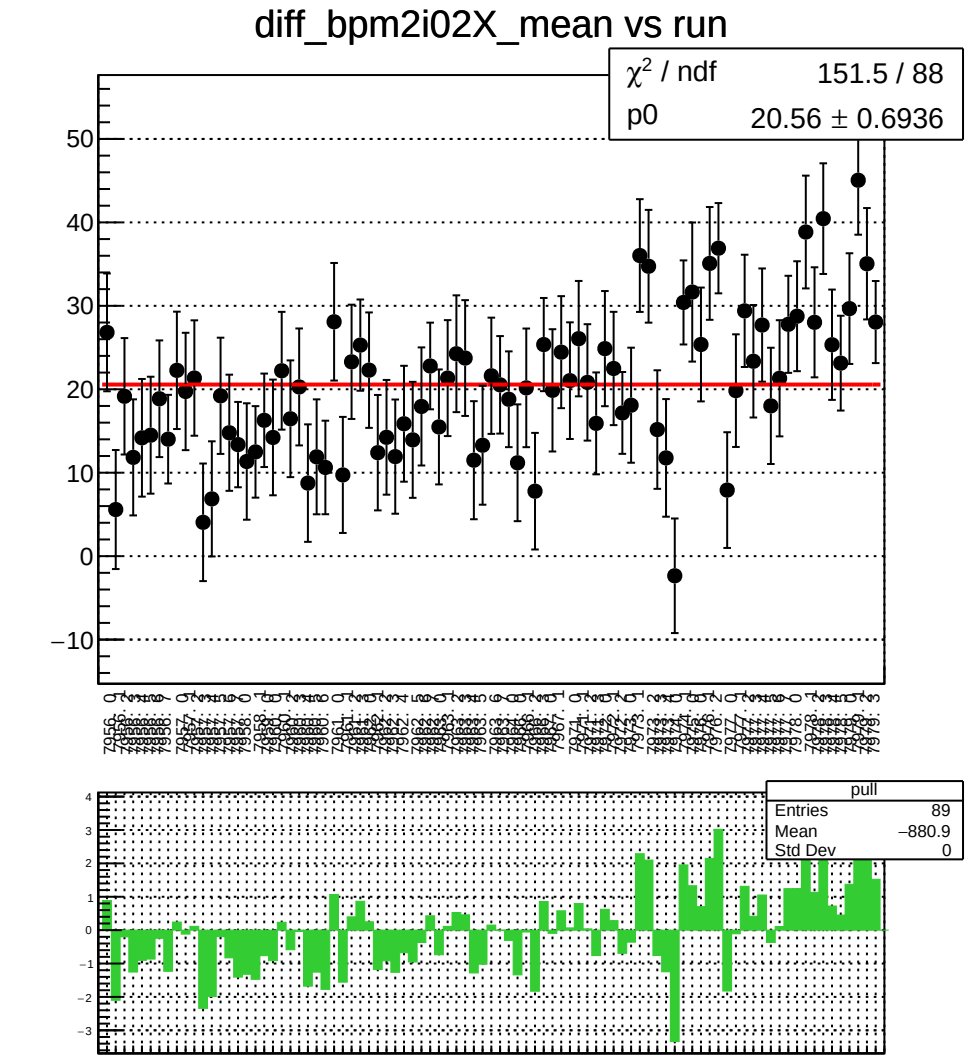

pull1D
Entries 89
Mean −0.01725
Std Dev 1.077

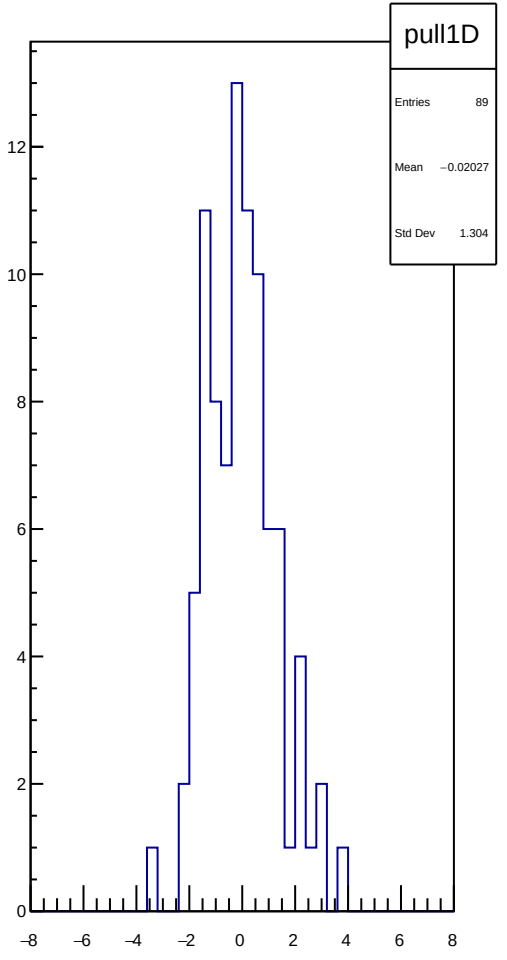

diff_bpm2i01X_rms vs run
χ² / ndf 1138 / 88
p0 551.5 ± 0.4123
600
590
580
570
560
550
540
530
520

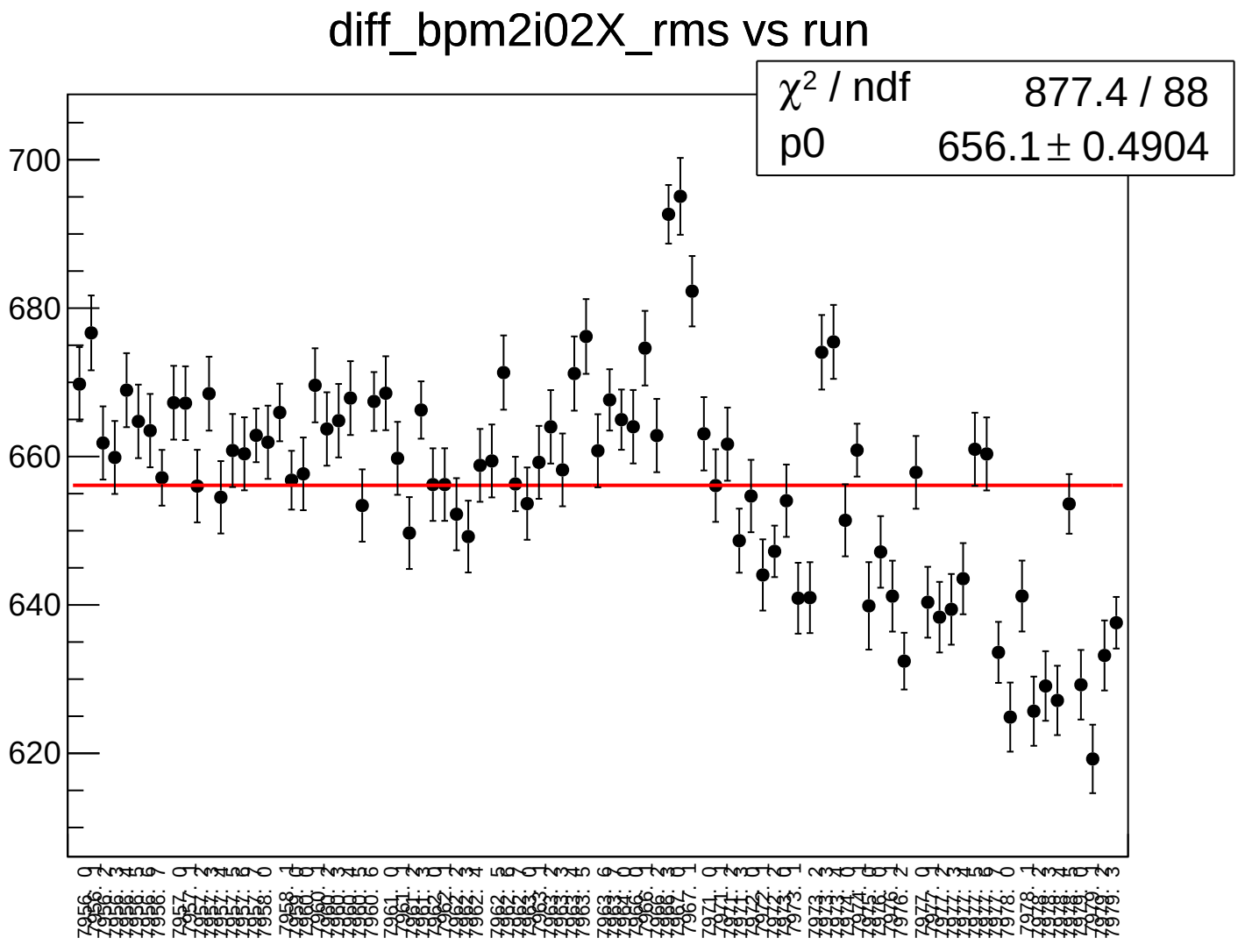

diff_bpm2i01Y_mean vs run
χ² / ndf 94.06 / 88
p0 −1.438 ± 0.6936
pull
Entries 89
Mean 183.9
Std Dev 0

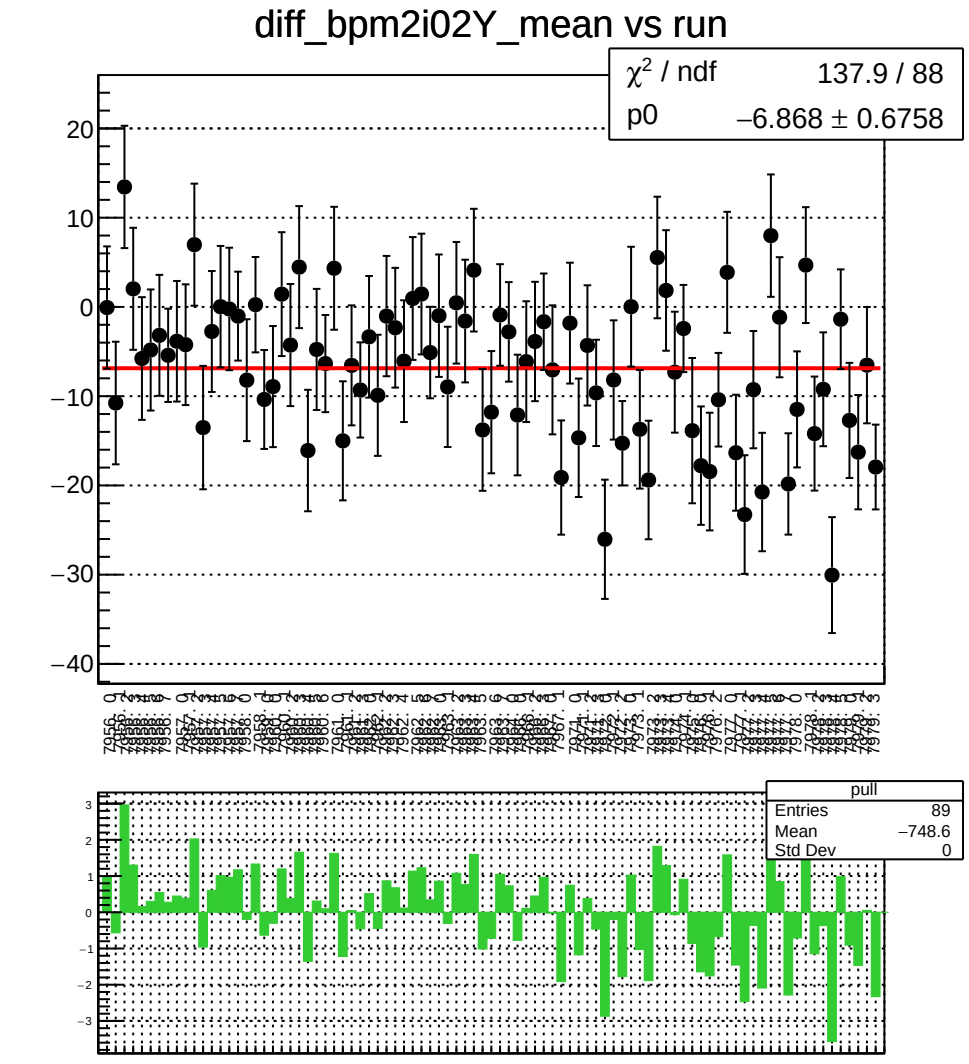

pull1D
Entries 89
Mean 0.0112
Std Dev 1.028

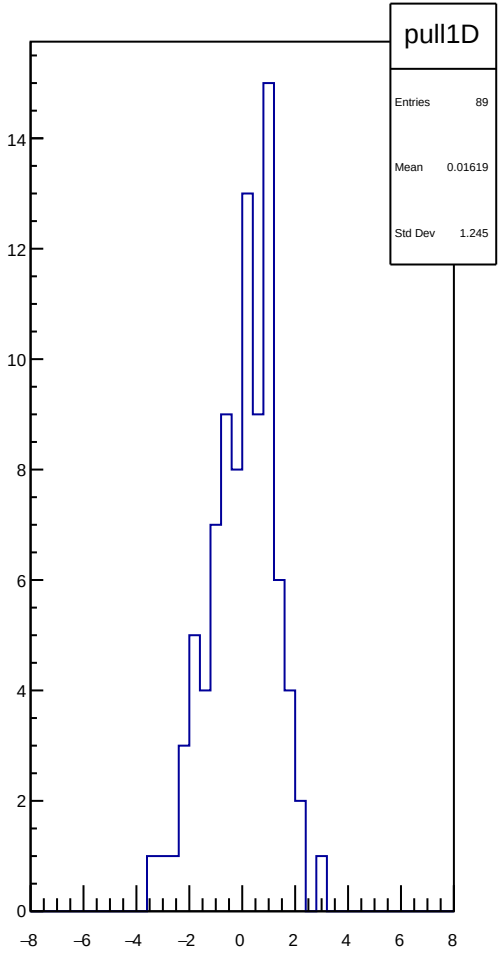

diff_bpm2i01Y_rms vs run
χ² / ndf 1353 / 88
p0 656.1 ± 0.4905
720
700
680
660
640
620
600

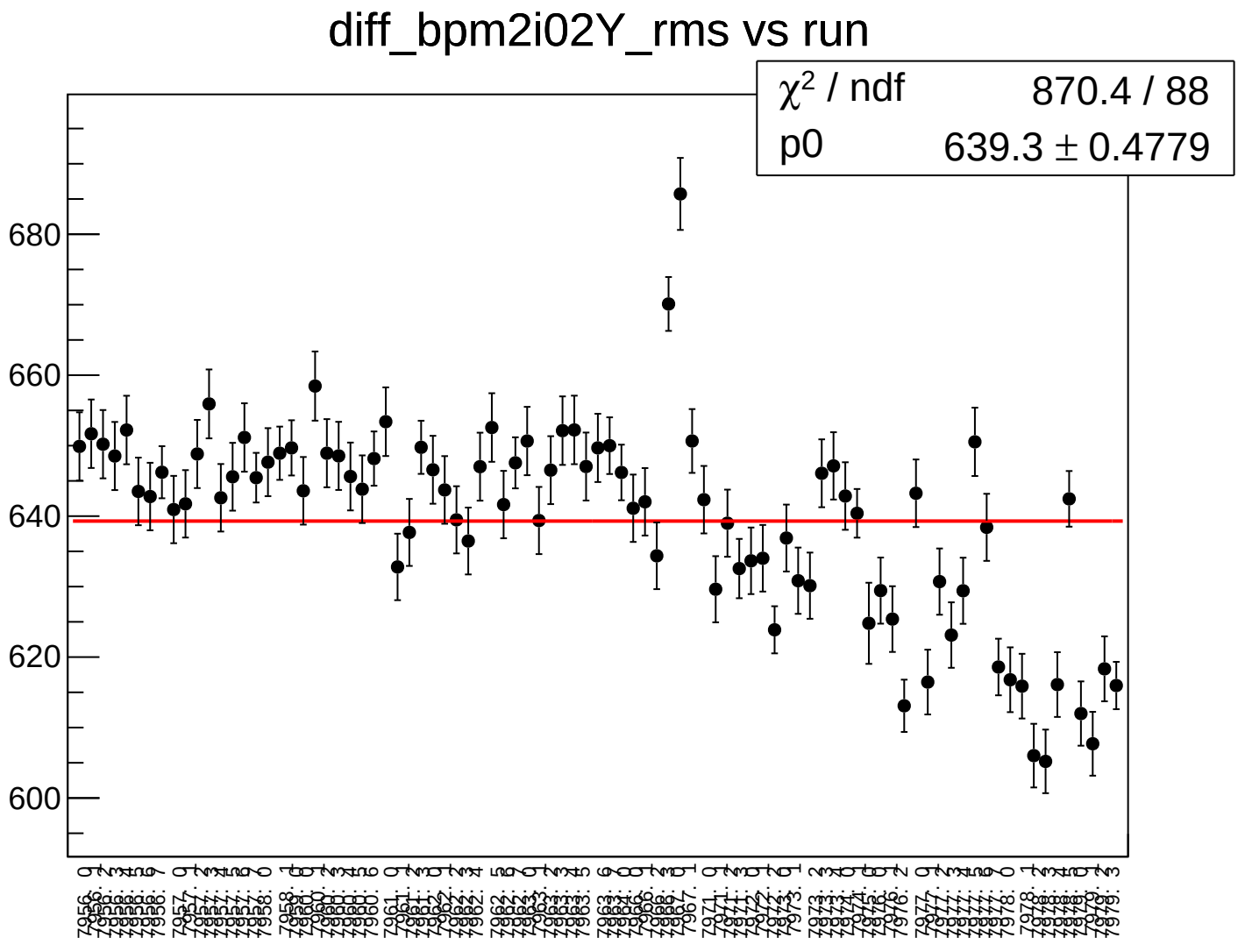

diff_bpm2i02X_mean vs run
χ² / ndf 151.5 / 88
p0 20.56 ± 0.6936
pull
Entries 89
Mean −880.9
Std Dev 0

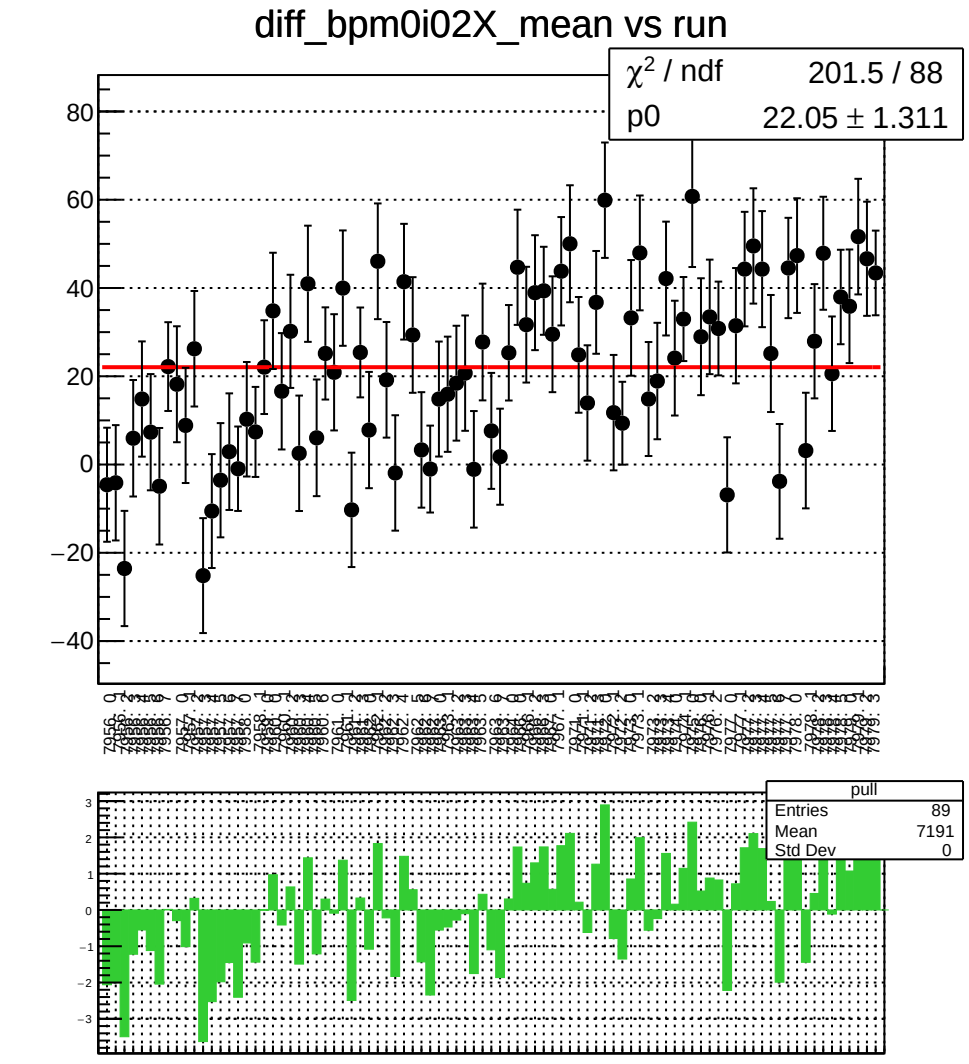

pull1D
Entries 89
Mean −0.02027
Std Dev 1.304

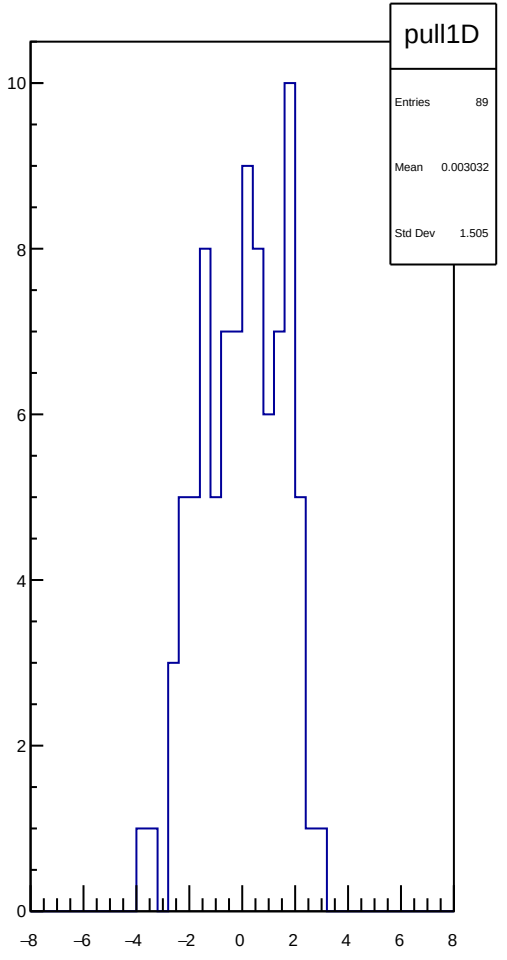

diff_bpm2i02X_rms vs run
χ² / ndf 877.4 / 88
p0 656.1 ± 0.4904
700
680
660
640
620

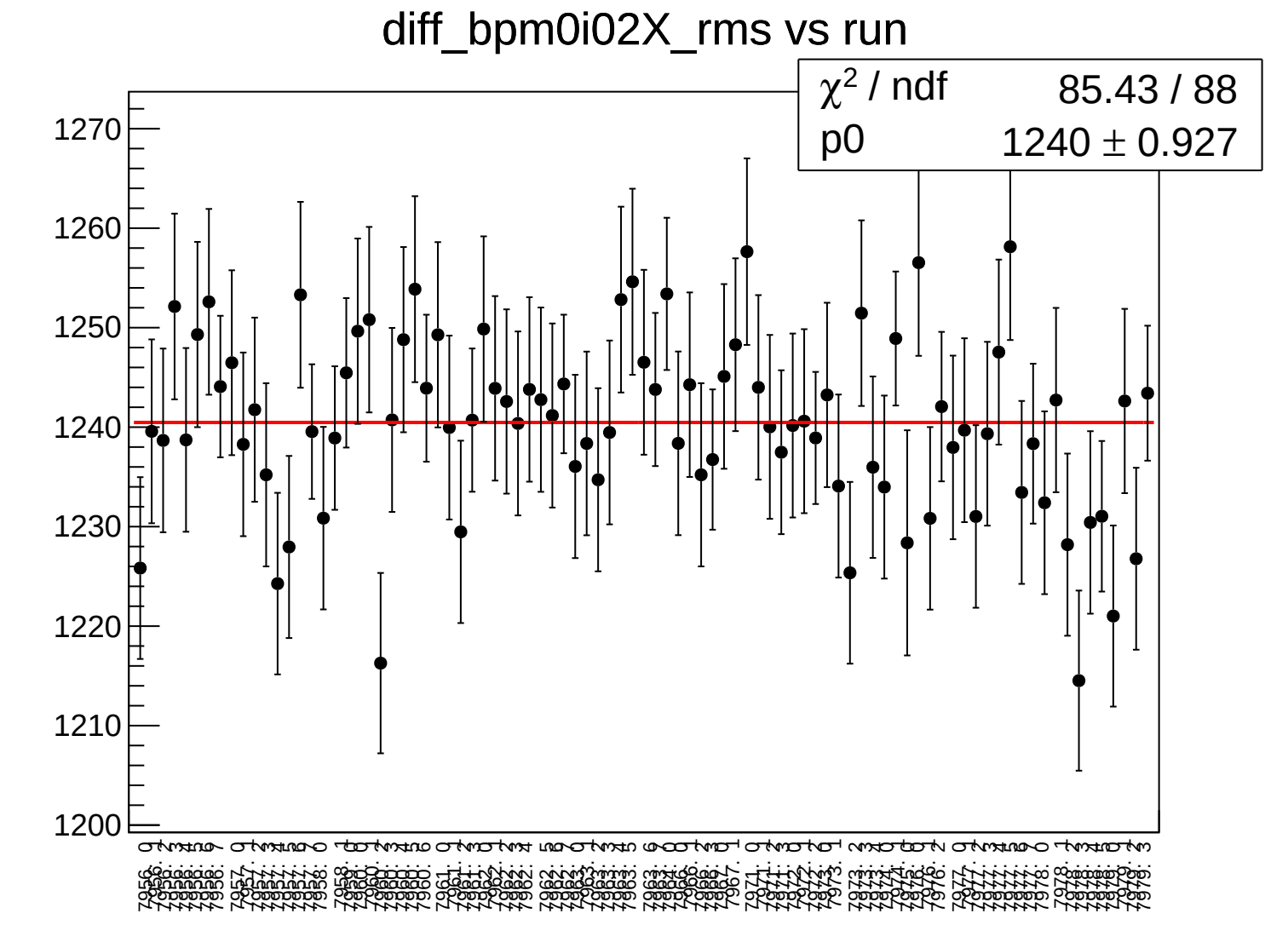

diff_bpm2i02Y_mean vs run
χ² / ndf 137.9 / 88
p0 −6.868 ± 0.6758
pull
Entries 89
Mean −748.6
Std Dev 0

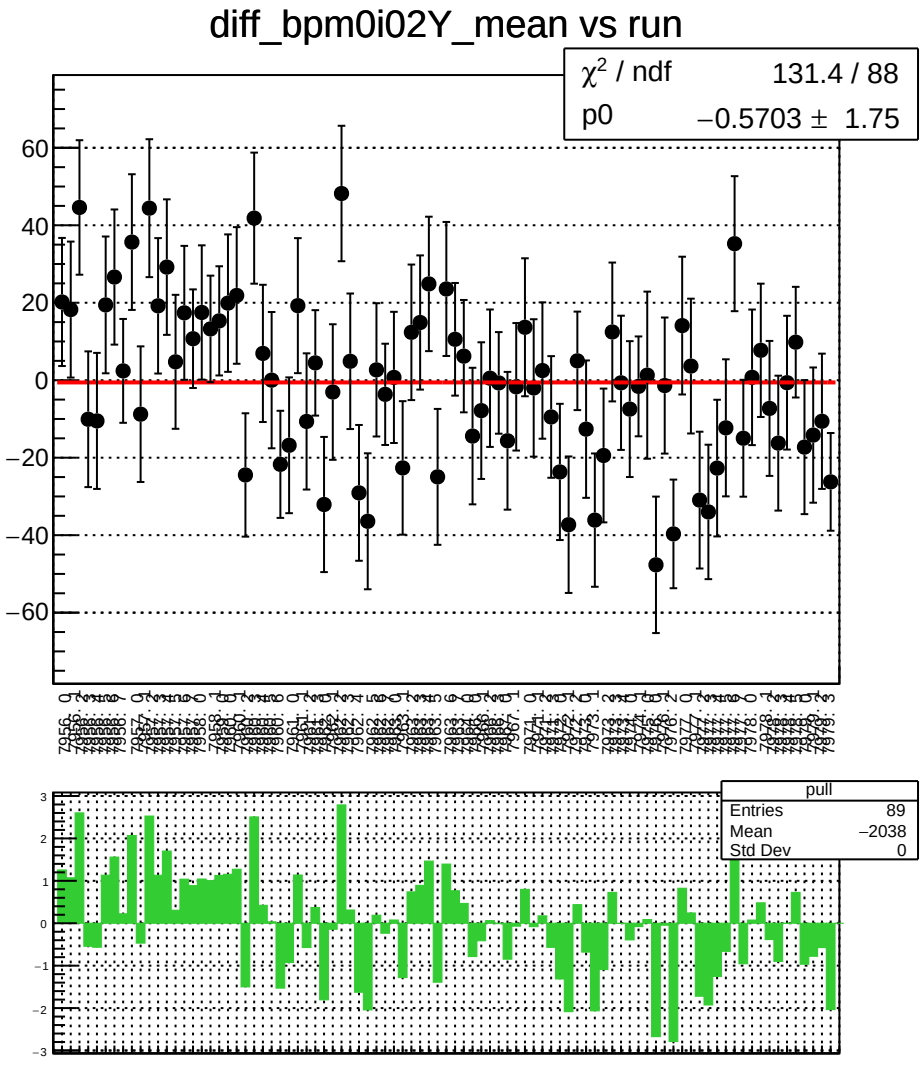

pull1D
Entries 89
Mean 0.01619
Std Dev 1.245

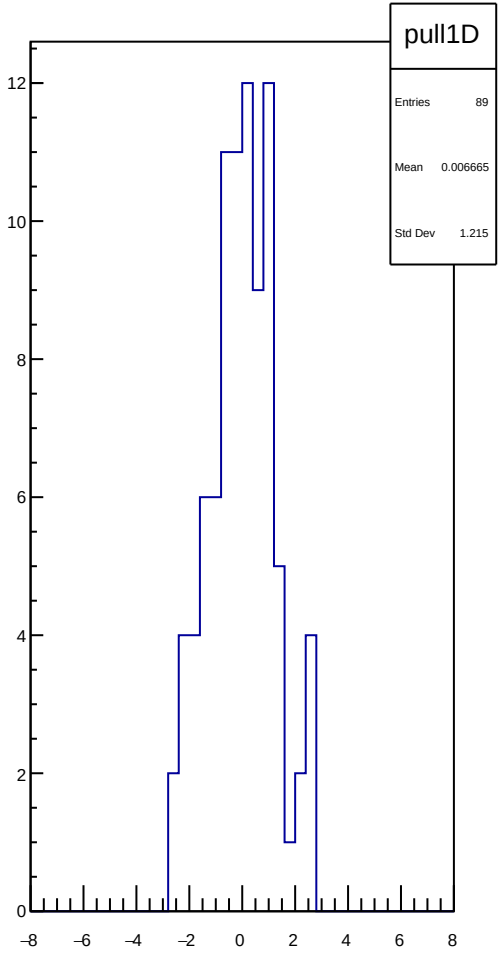

diff_bpm2i02Y_rms vs run
χ² / ndf 870.4 / 88
p0 639.3 ± 0.4779
680
660
640
620
600

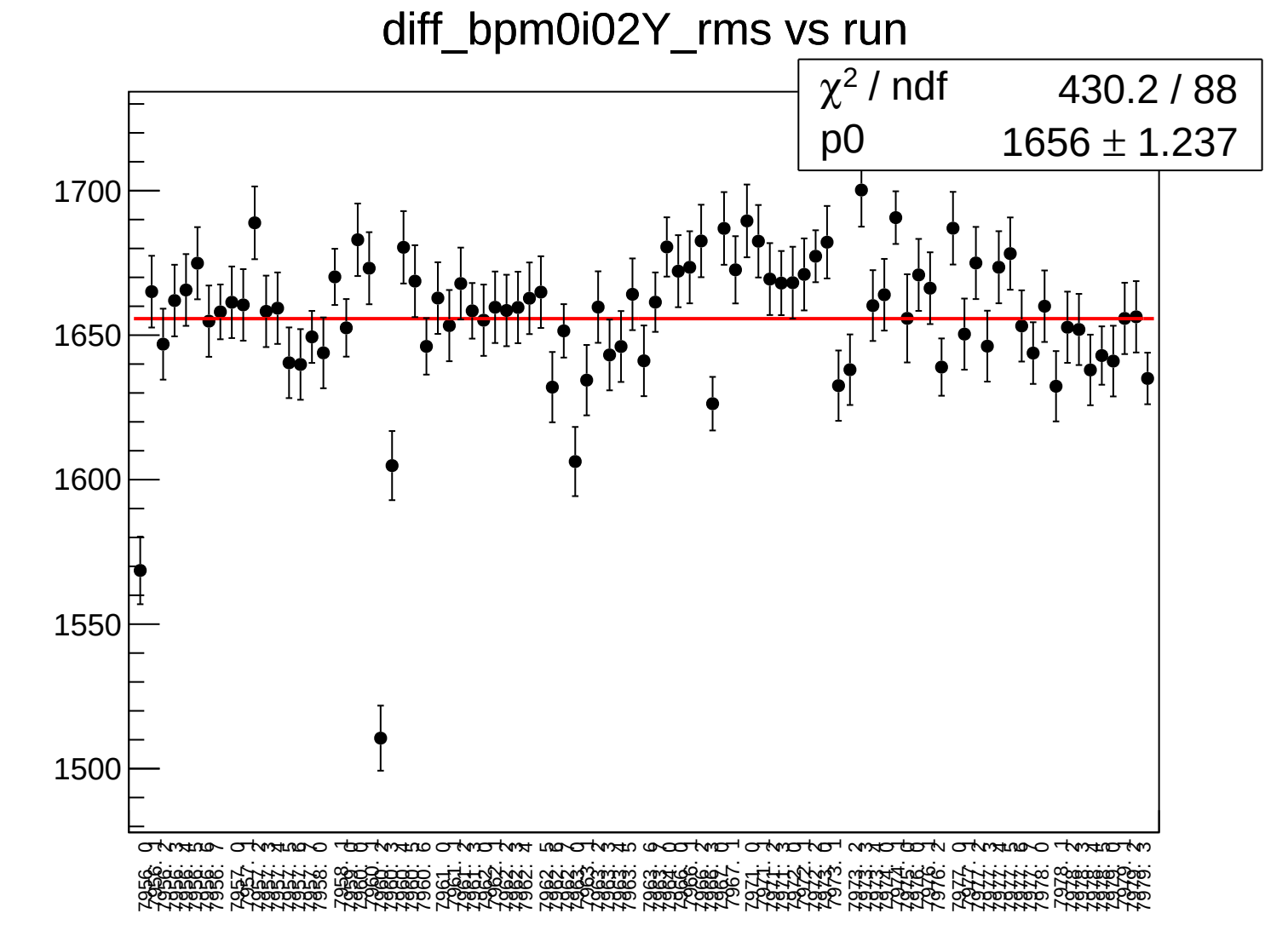

diff_bpm0i02X_mean vs run
χ² / ndf 201.5 / 88
p0 22.05 ± 1.311
pull
Entries 89
Mean 7191
Std Dev 0

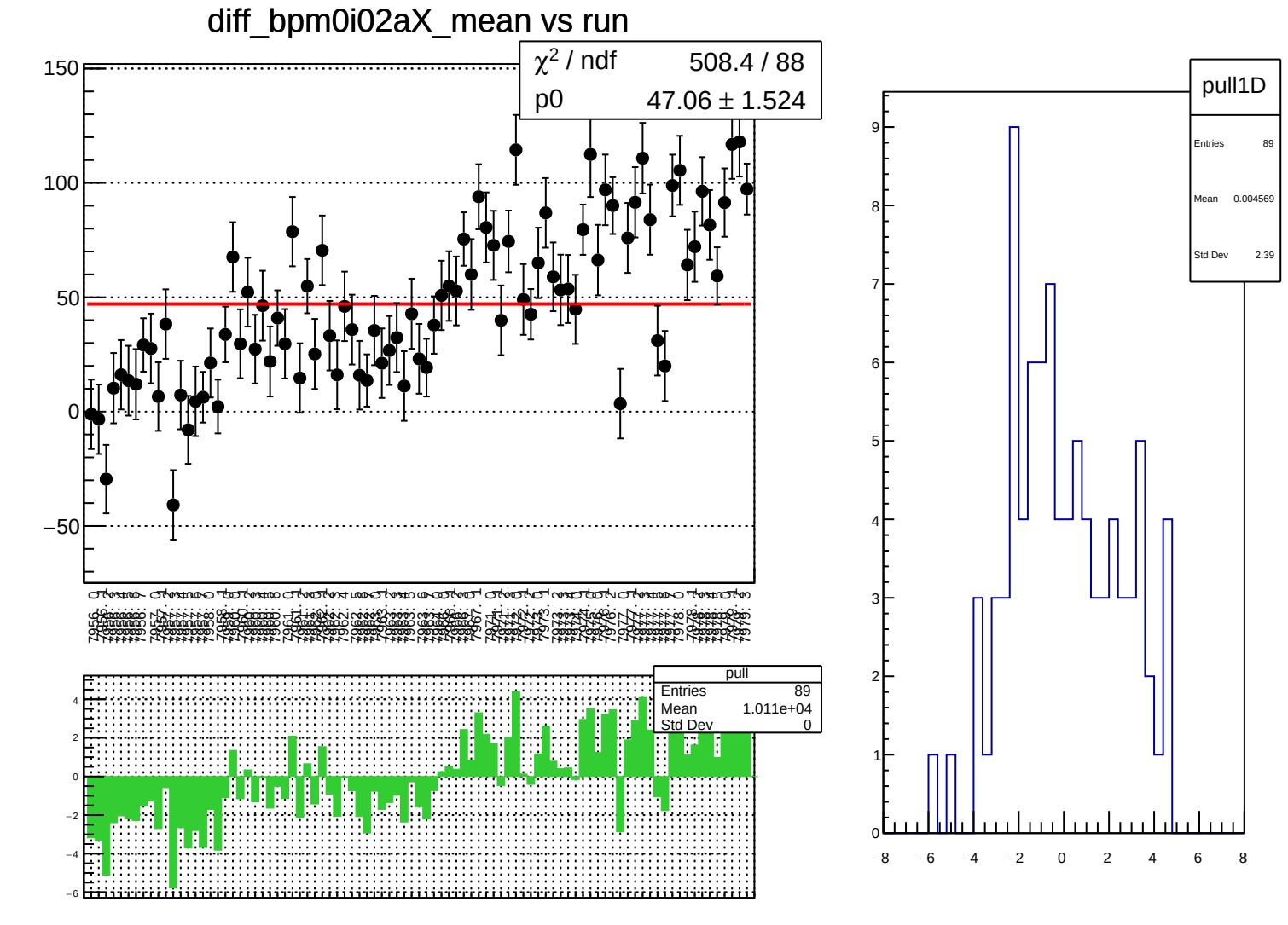

pull1D
Entries 89
Mean 0.003032
Std Dev 1.505

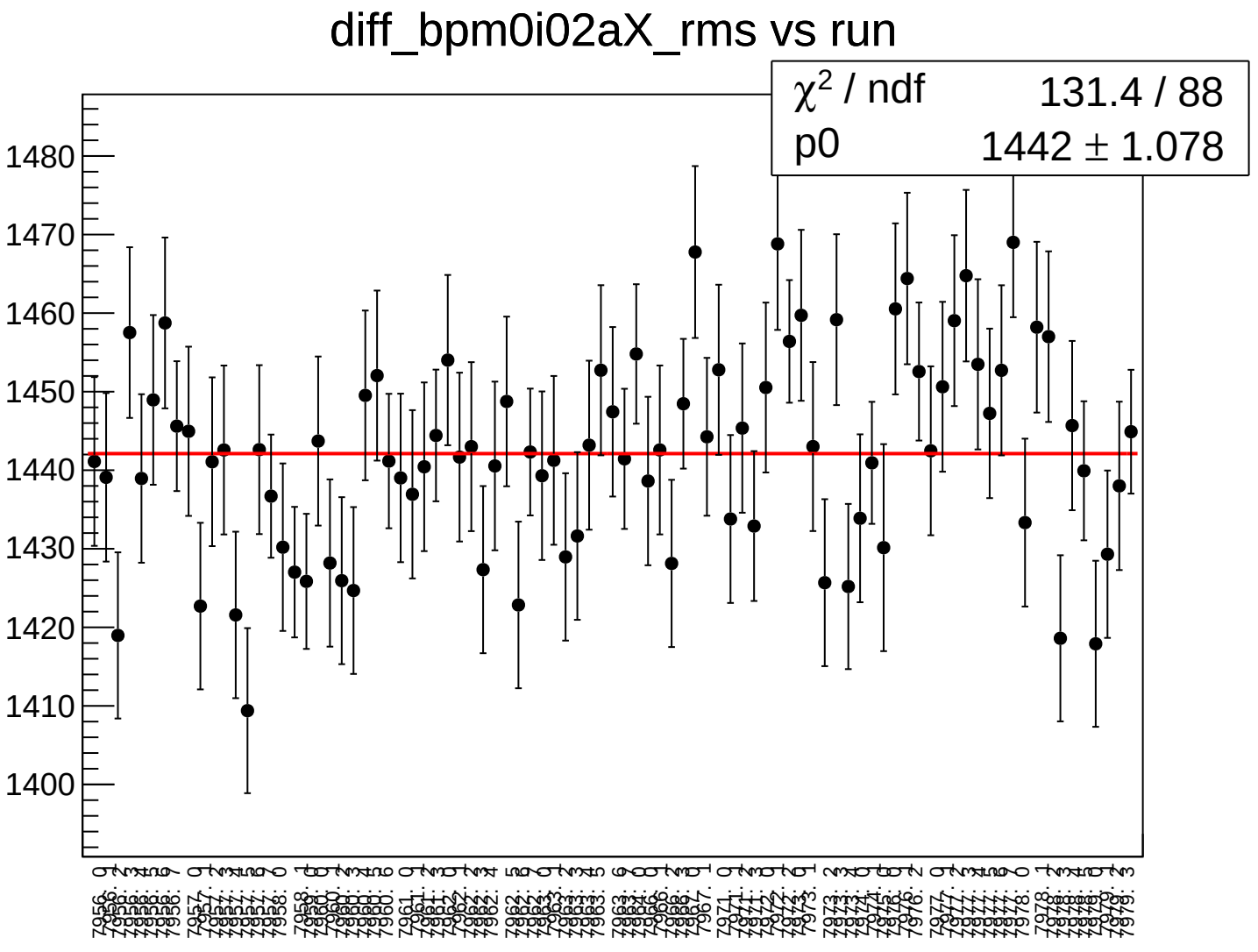

diff_bpm0i02X_rms vs run
χ² / ndf 85.43 / 88
p0 1240 ± 0.927
1270
1260
1250
1240
1230
1220
1210
1200

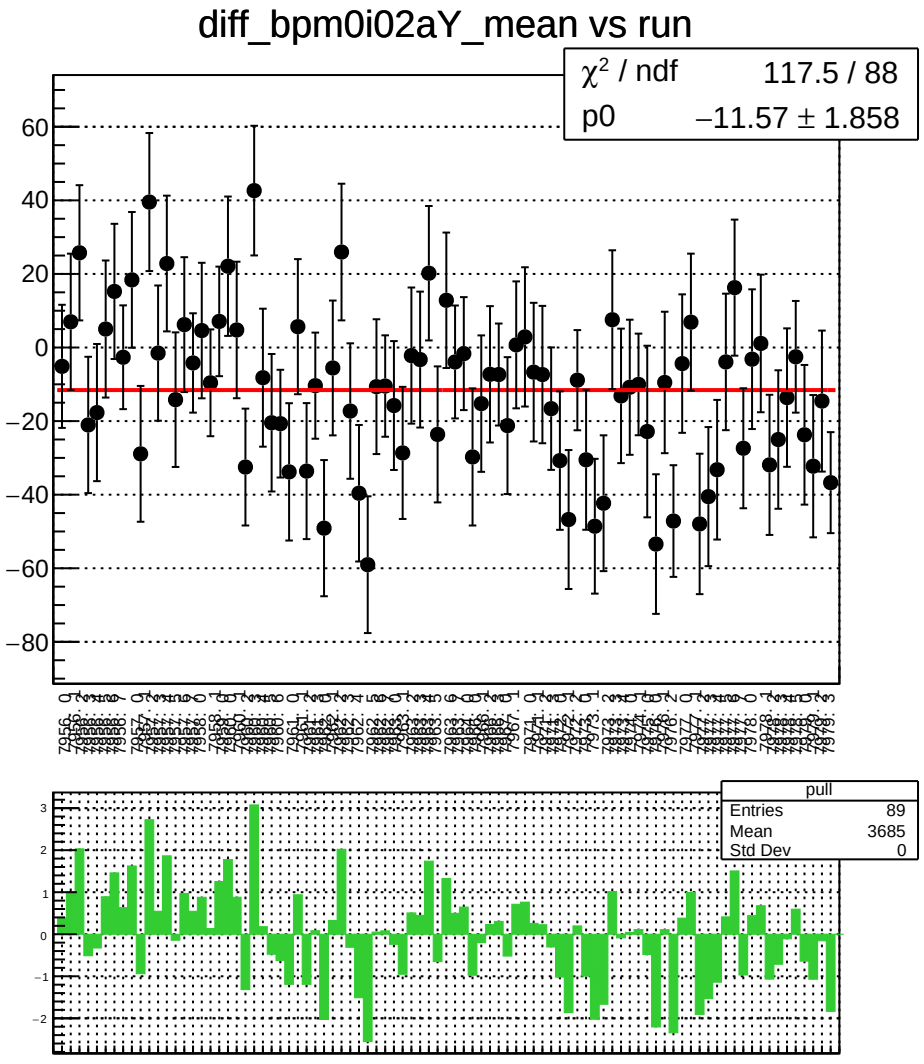

diff_bpm0i02Y_mean vs run
χ² / ndf 131.4 / 88
p0 −0.5703 ± 1.75
pull
Entries 89
Mean −2038
Std Dev 0

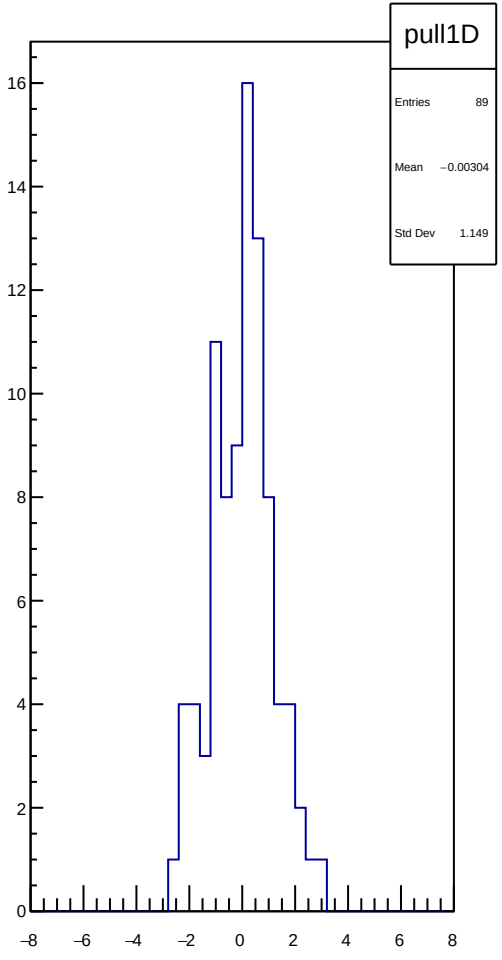

pull1D
Entries 89
Mean 0.006665
Std Dev 1.215

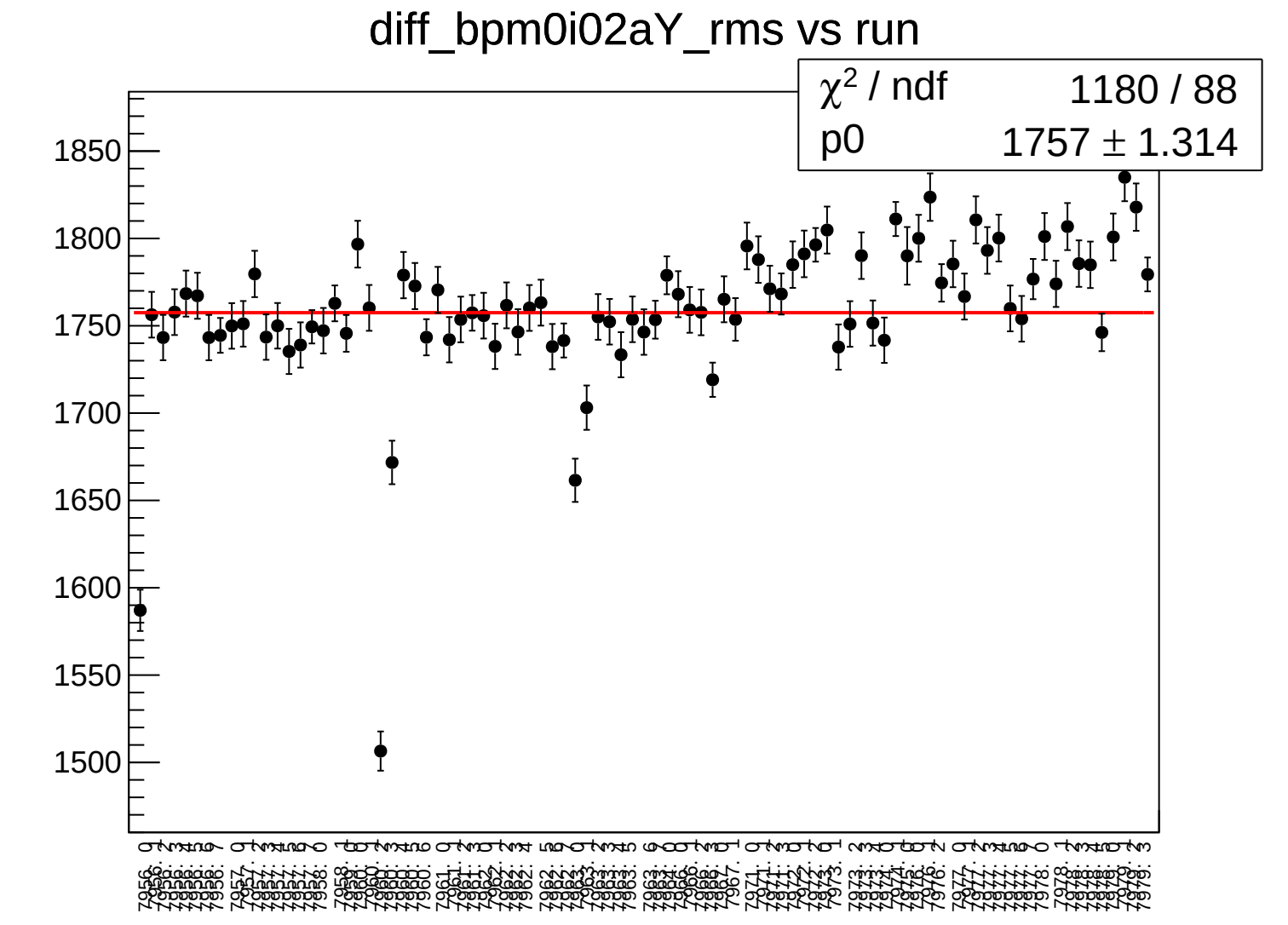

diff_bpm0i02Y_rms vs run
$\chi^2$ / ndf 430.2 / 88
p0 1656 ± 1.237
1700
1650
1600
1550
1500

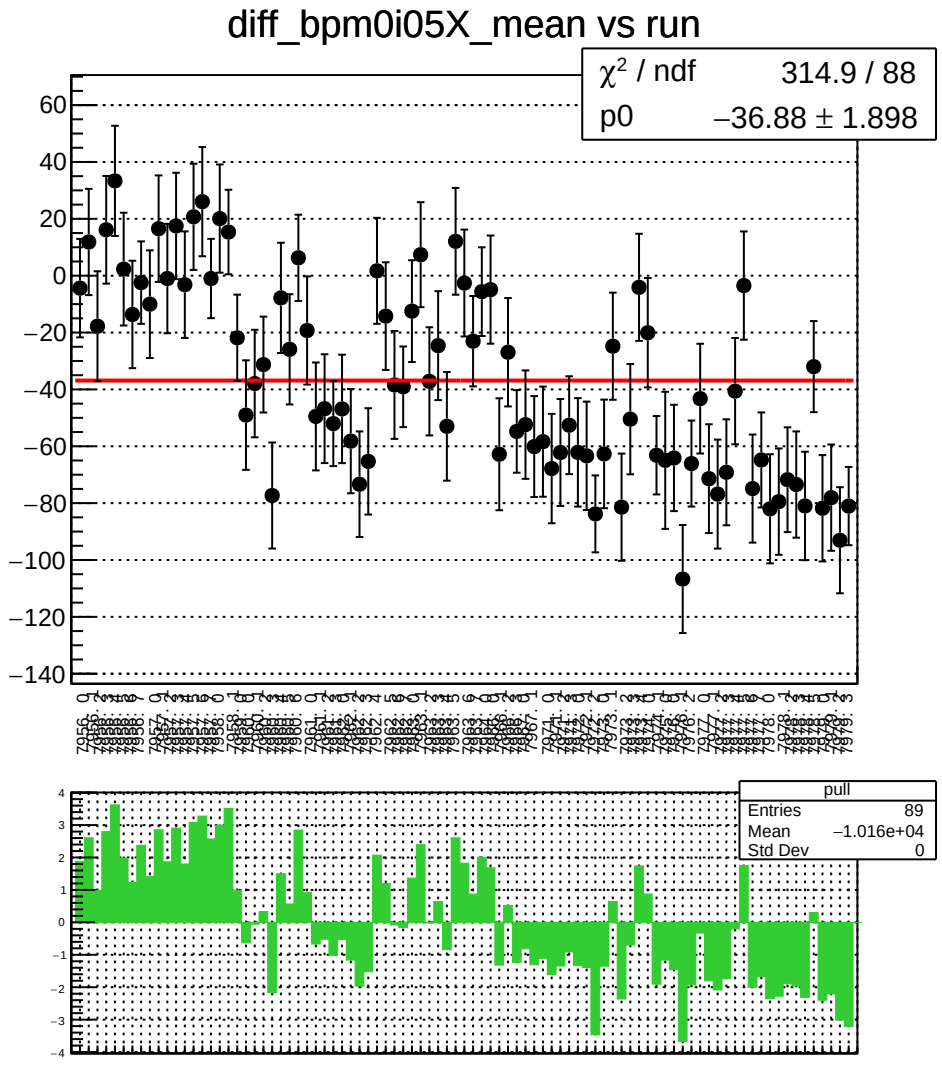

diff_bpm0i02aX_mean vs run
χ² / ndf 508.4 / 88
p0 47.06 ± 1.524
150
100
50
0
−50
pull
Entries 89
Mean 1.011e+04
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 89
Mean 0.004569
Std Dev 2.39
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

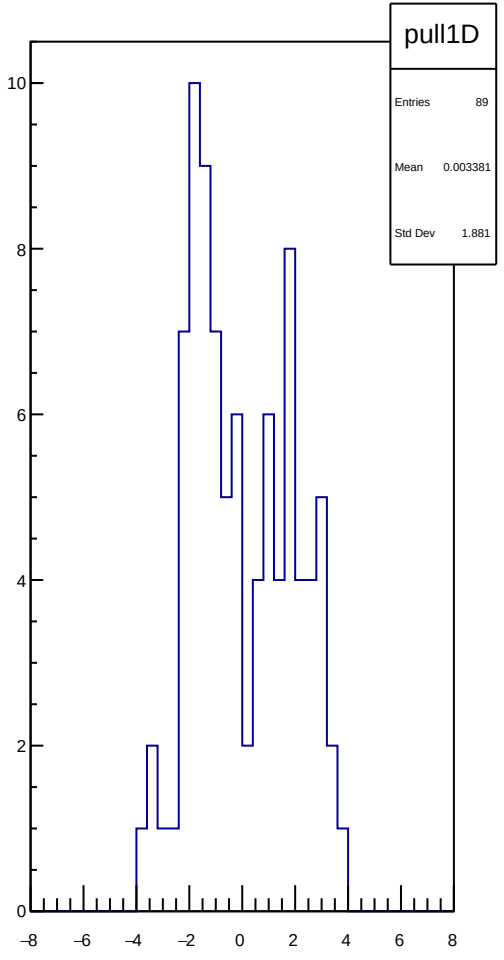

diff_bpm0i02aX_rms vs run
χ² / ndf 131.4 / 88
p0 1442 ± 1.078
1480
1470
1460
1450
1440
1430
1420
1410
1400

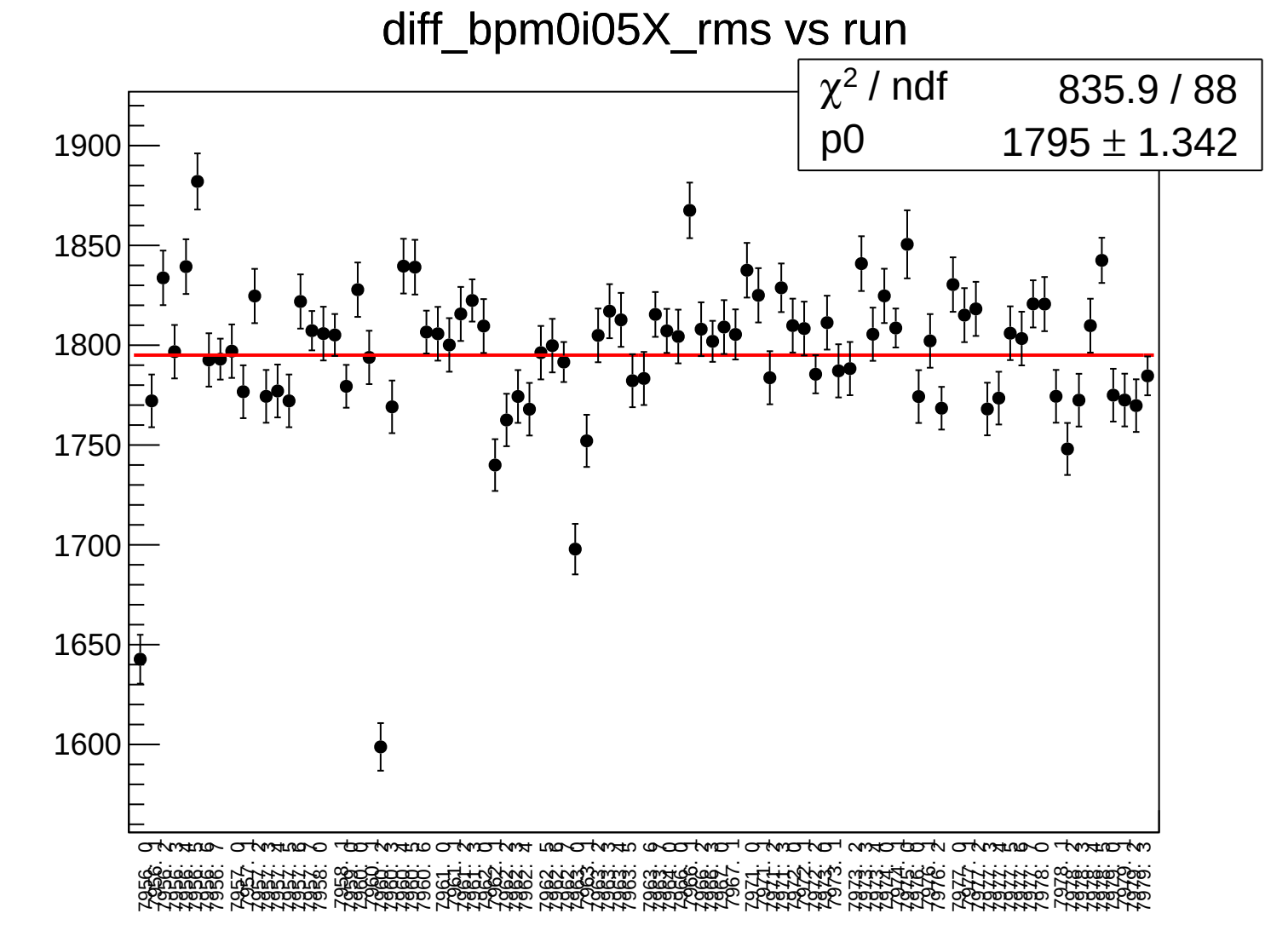

diff_bpm0i02aY_mean vs run
χ² / ndf 117.5 / 88
p0 −11.57 ± 1.858
pull
Entries 89
Mean 3685
Std Dev 0

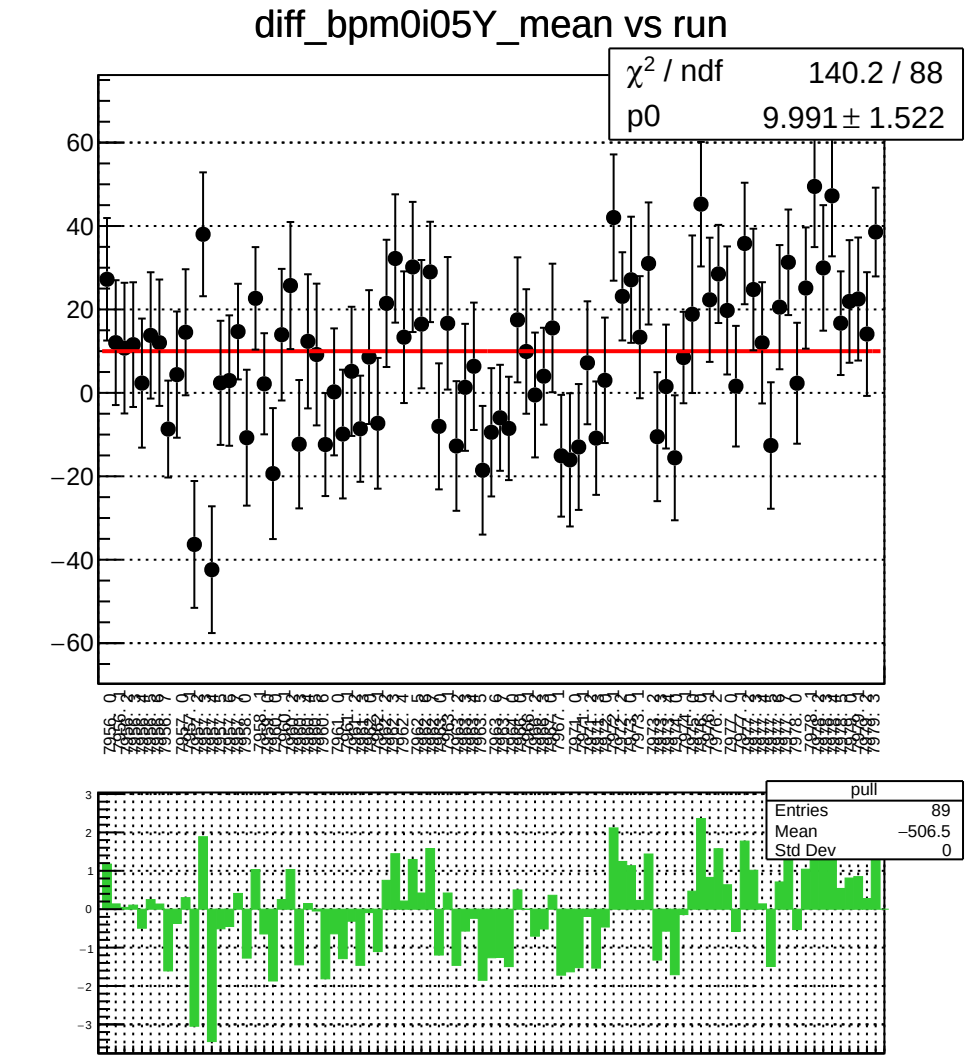

pull1D
Entries 89
Mean −0.00304
Std Dev 1.149

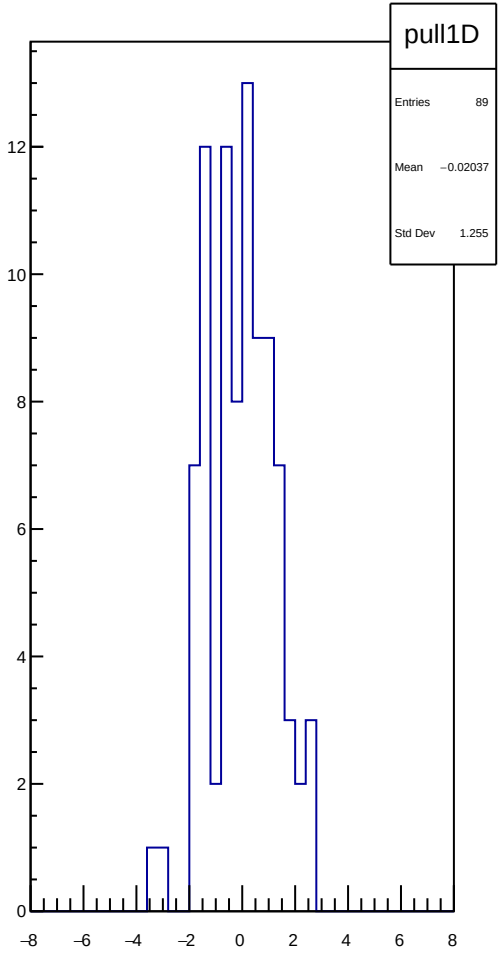

diff_bpm0i02aY_rms vs run
χ² / ndf 1180 / 88
p0 1757 ± 1.314
1850
1800
1750
1700
1650
1600
1550
1500

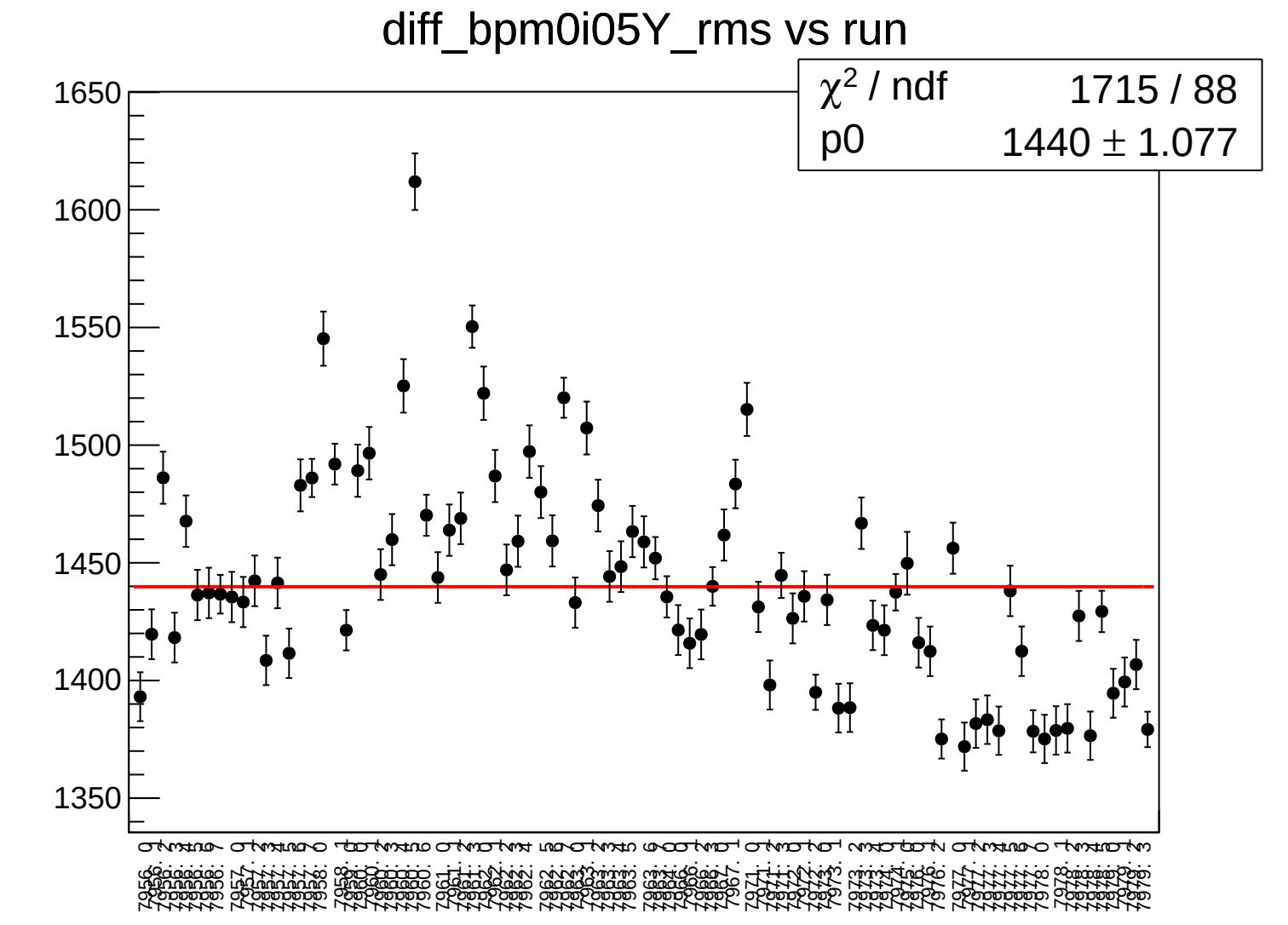

diff_bpm0i05X_mean vs run
χ² / ndf 314.9 / 88
p0 −36.88 ± 1.898
pull
Entries 89
Mean −1.016e+04
Std Dev 0

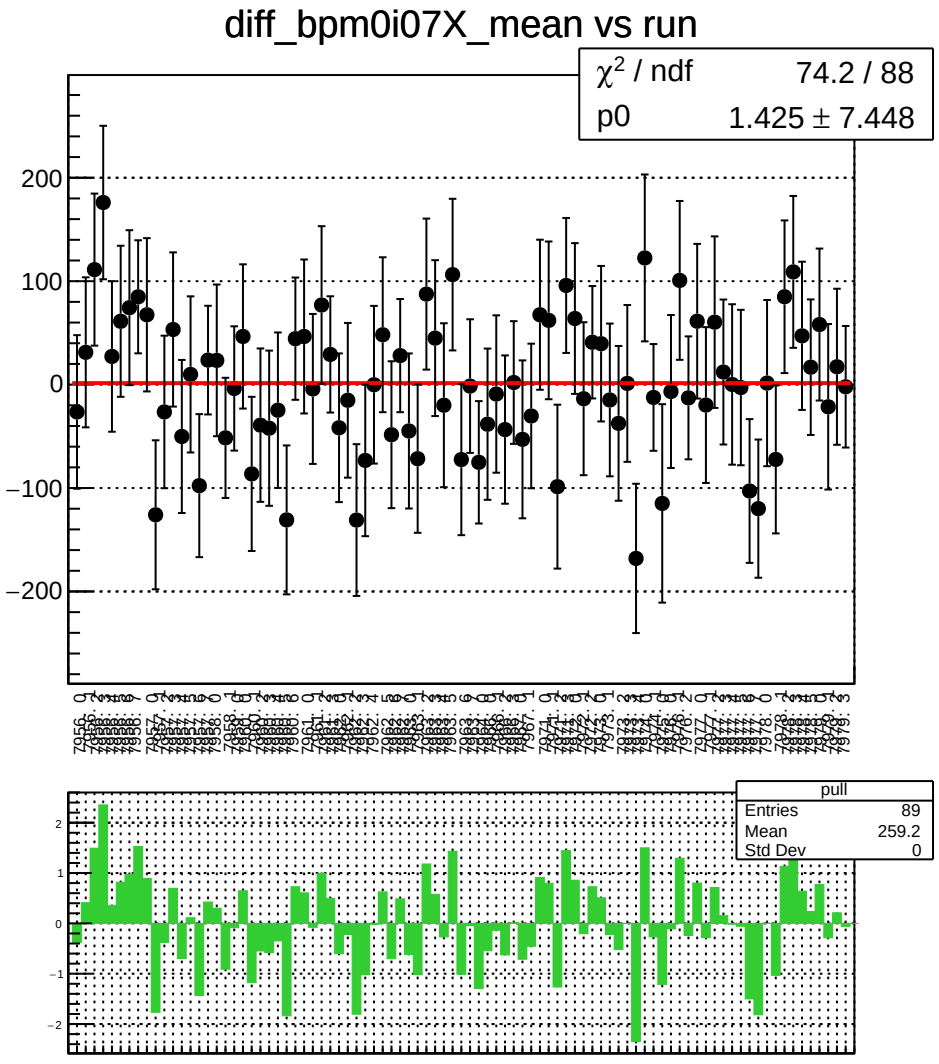

pull1D
Entries 89
Mean 0.003381
Std Dev 1.881

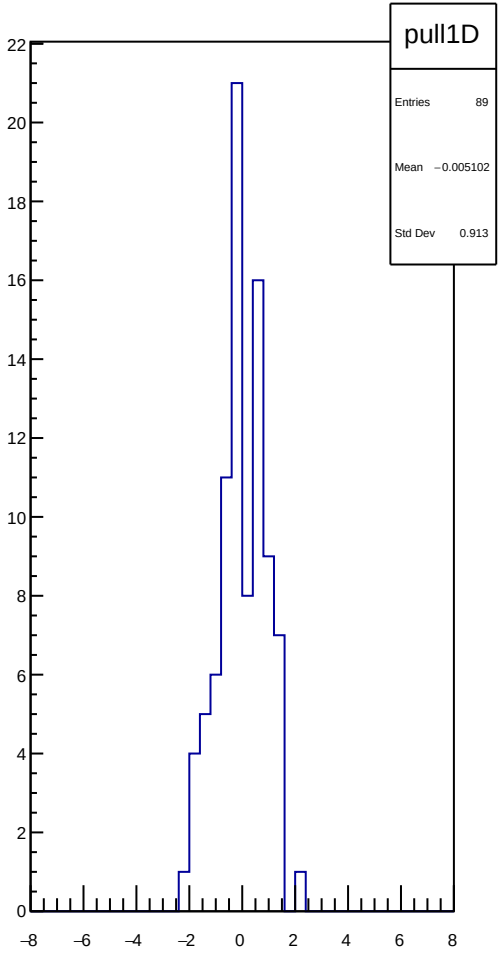

diff_bpm0i05X_rms vs run
χ² / ndf 835.9 / 88
p0 1795 ± 1.342
1900
1850
1800
1750
1700
1650
1600

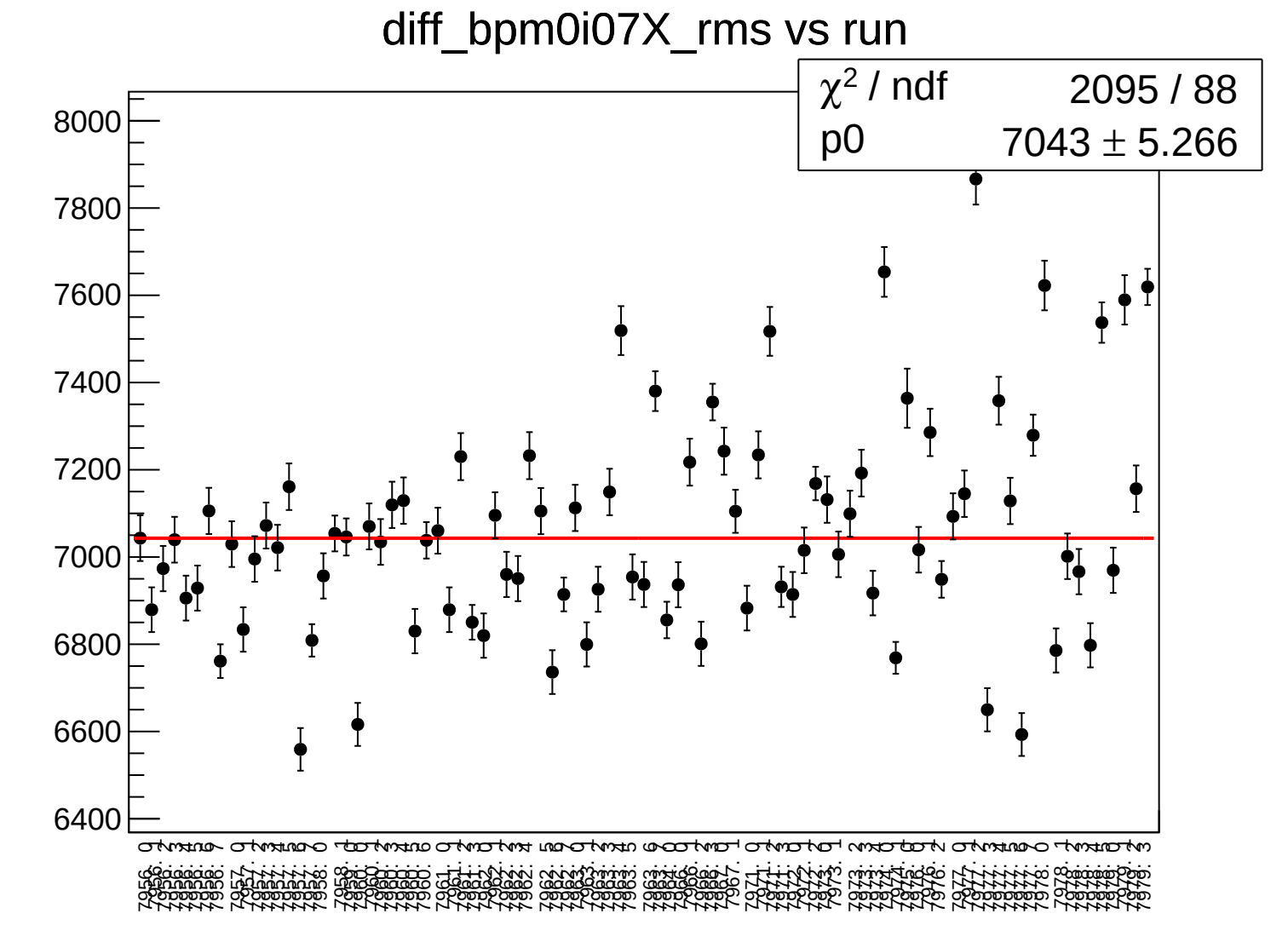

diff_bpm0i05Y_mean vs run
χ² / ndf 140.2 / 88
p0 9.991 ± 1.522
pull
Entries 89
Mean −506.5
Std Dev 0

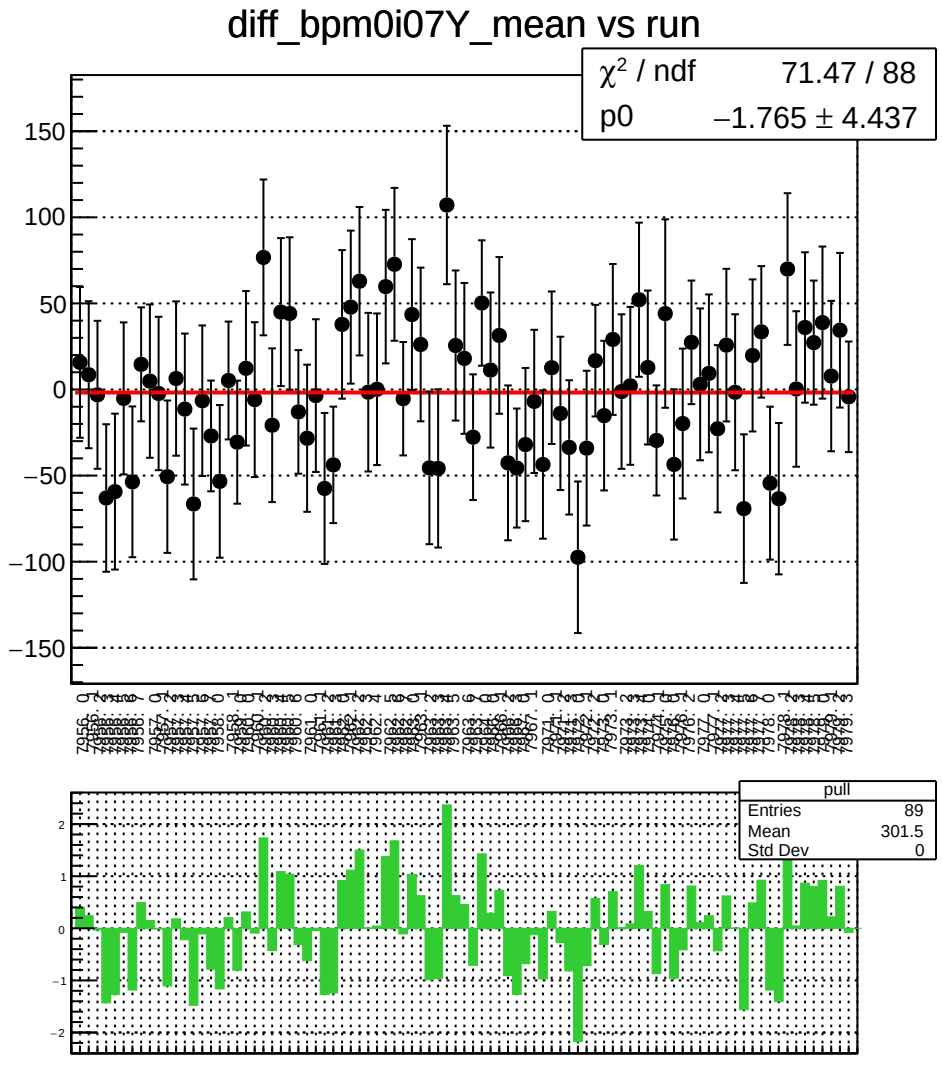

pull1D
Entries 89
Mean −0.02037
Std Dev 1.255

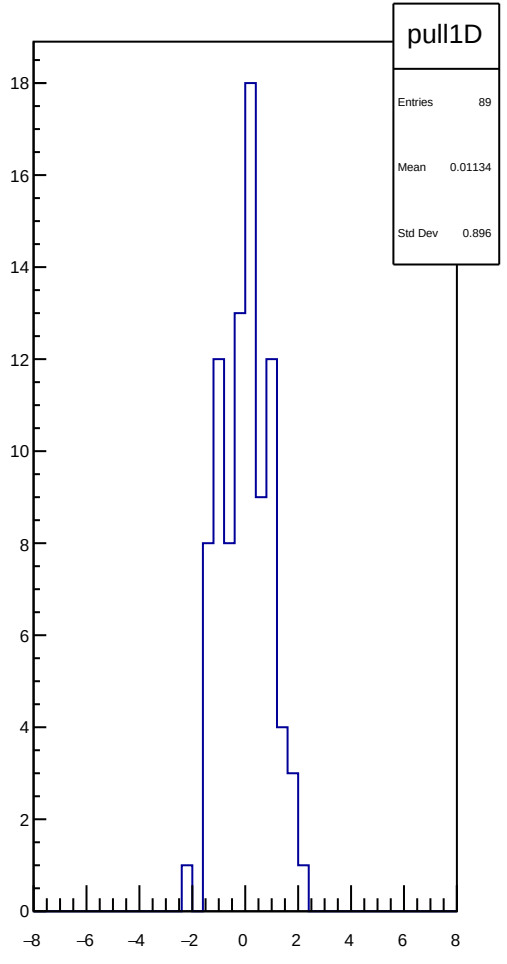

diff_bpm0i05Y_rms vs run
χ² / ndf 1715 / 88
p0 1440 ± 1.077
1650
1600
1550
1500
1450
1400
1350

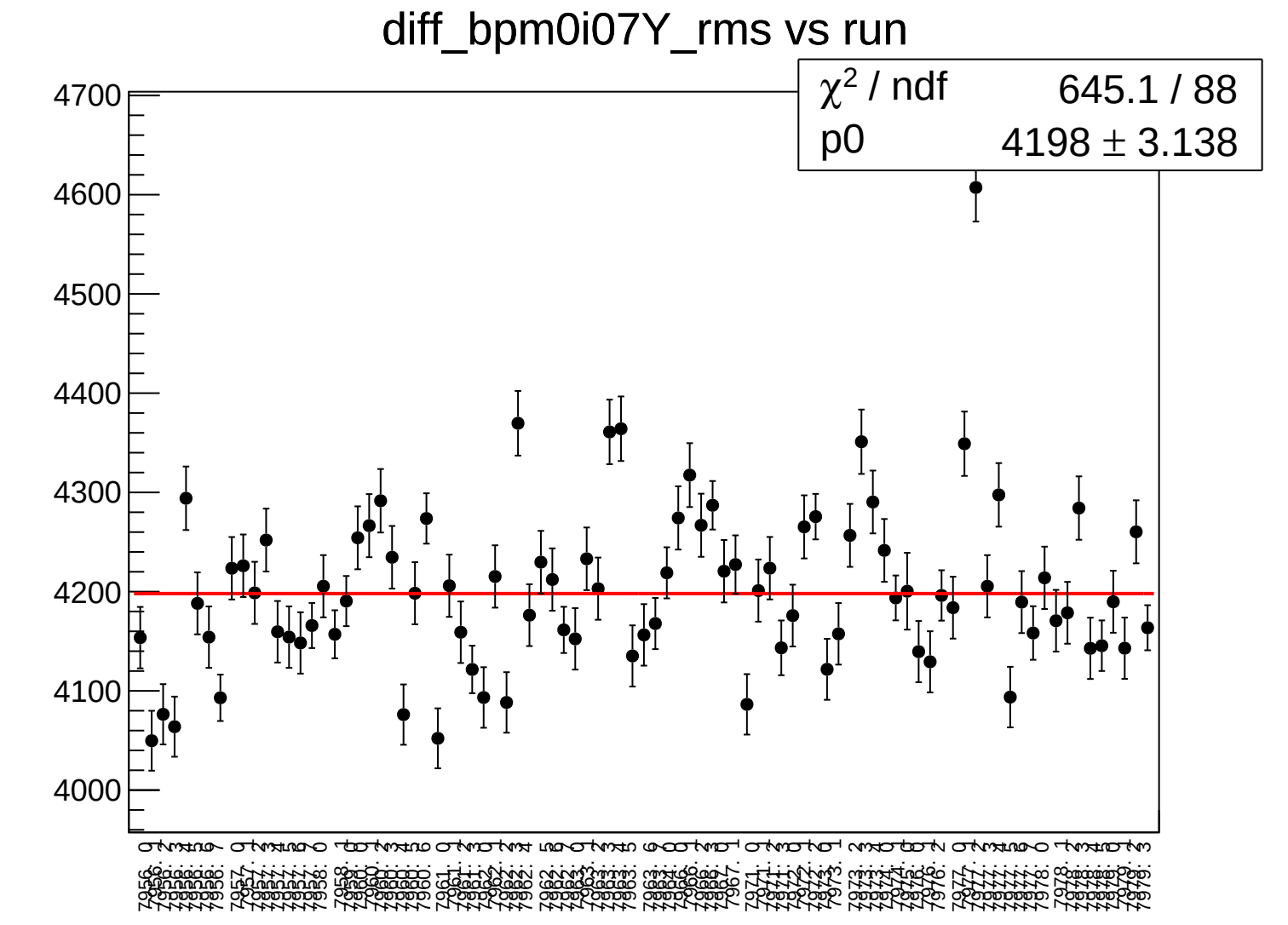

diff_bpm0i07X_mean vs run
$\chi^2$ / ndf 74.2 / 88
p0 1.425 ± 7.448
200
100
0
−100
−200
pull
Entries 89
Mean 259.2
Std Dev 0
2
1
0
−1
−2

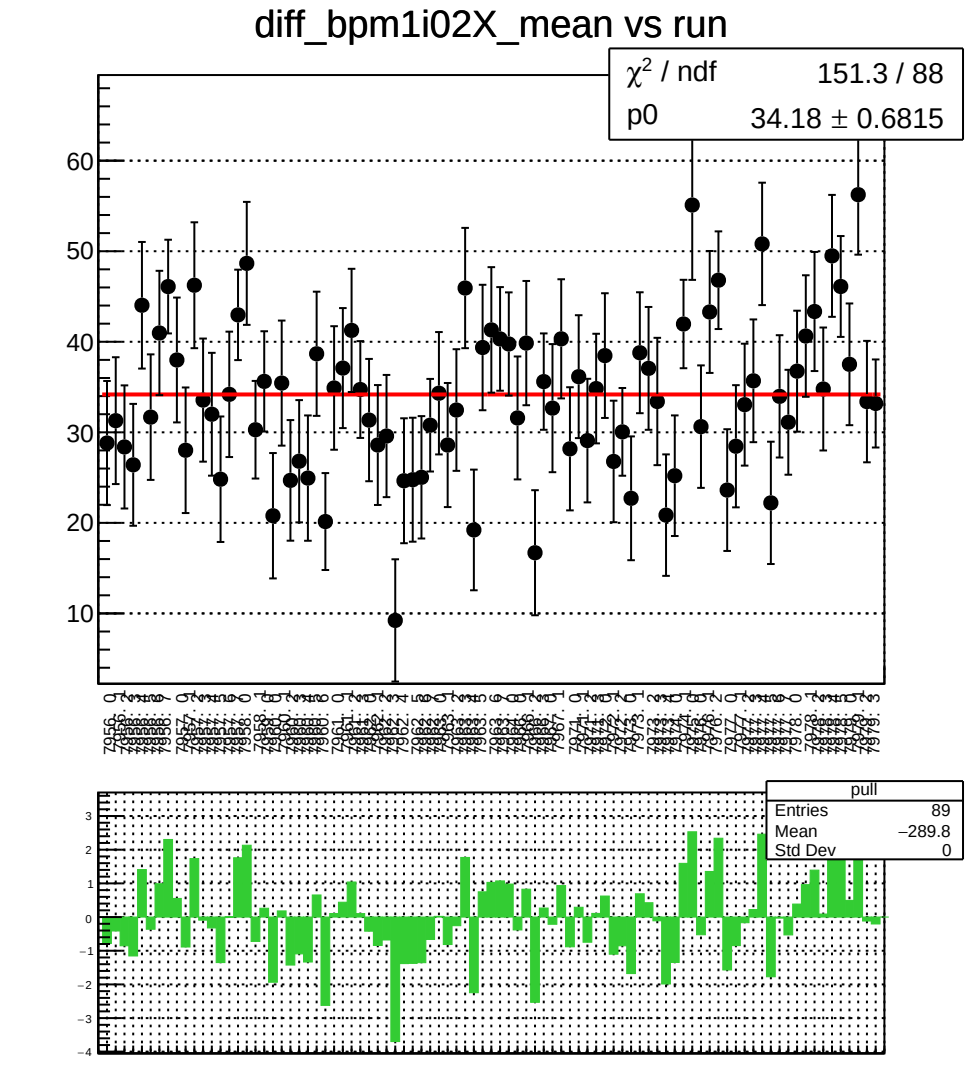

pull1D
Entries 89
Mean −0.005102
Std Dev 0.913
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

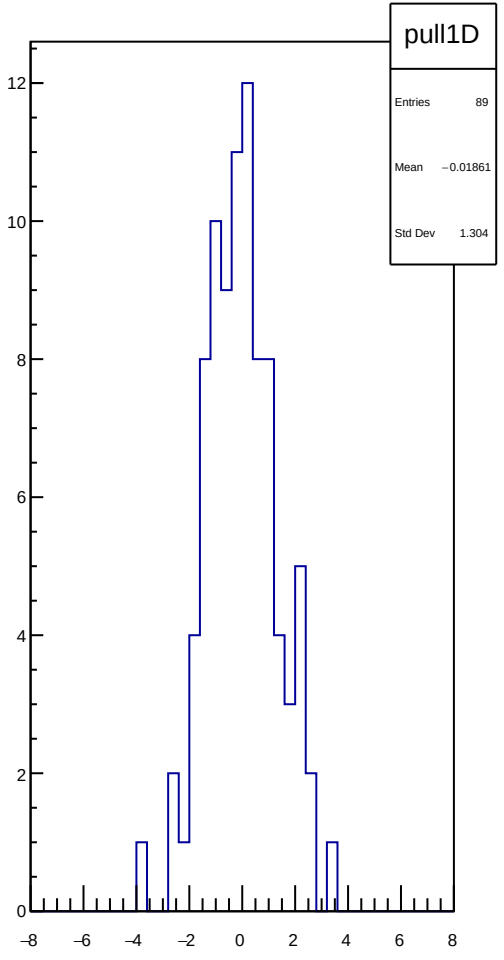

diff_bpm0i07X_rms vs run
χ² / ndf 2095 / 88
p0 7043 ± 5.266
8000
7800
7600
7400
7200
7000
6800
6600
6400

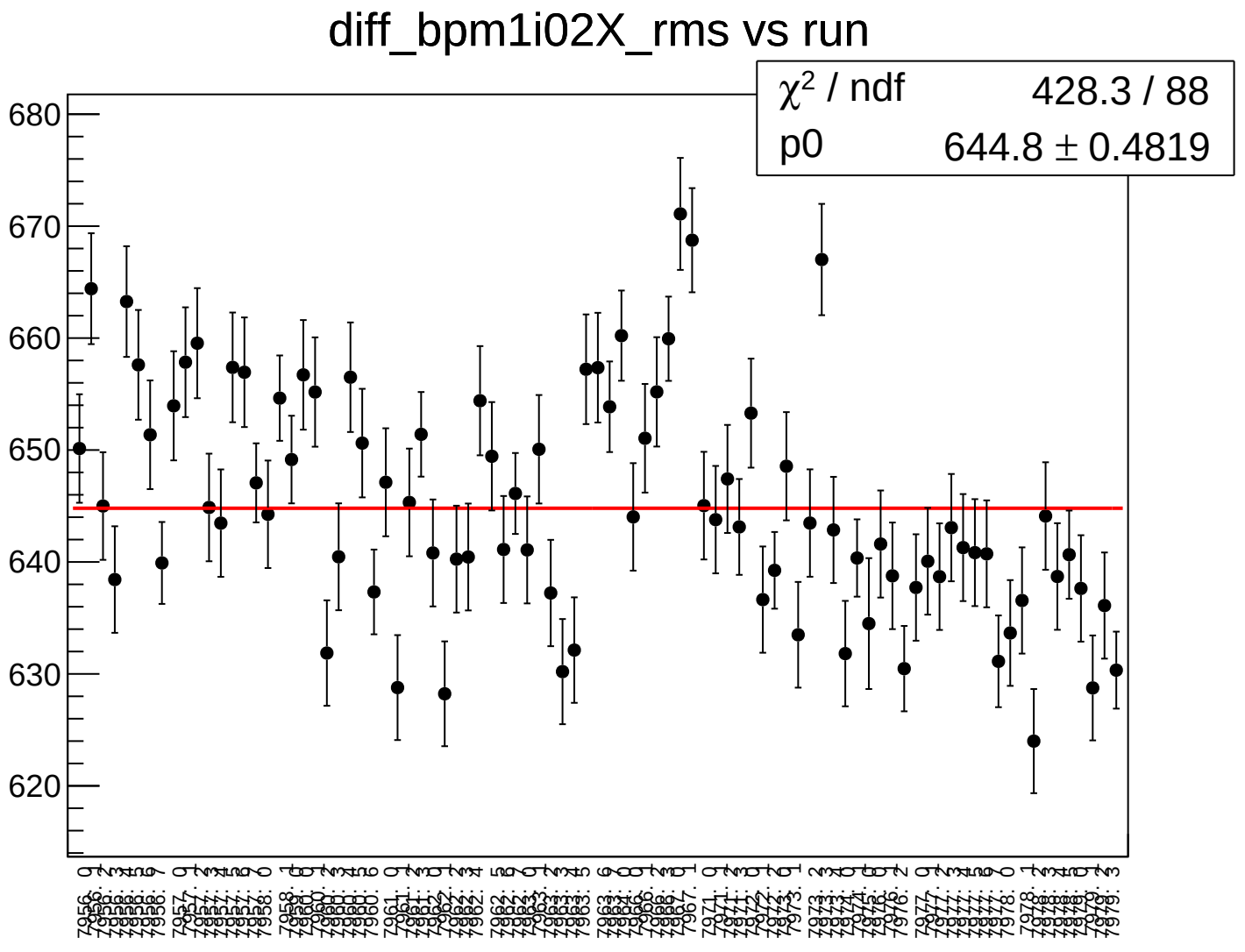

diff_bpm0i07Y_mean vs run
χ² / ndf 71.47 / 88
p0 −1.765 ± 4.437
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 301.5
Std Dev 0
2
1
0
−1
−2

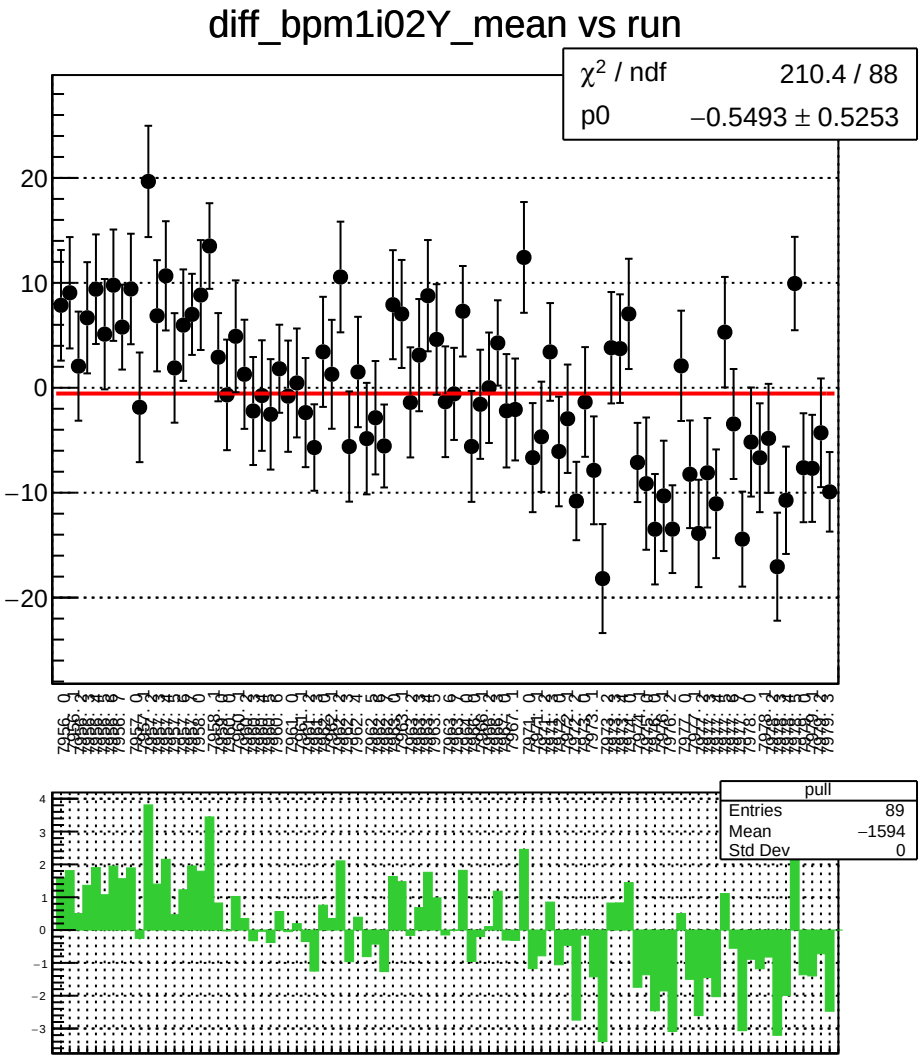

pull1D
Entries 89
Mean 0.01134
Std Dev 0.896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

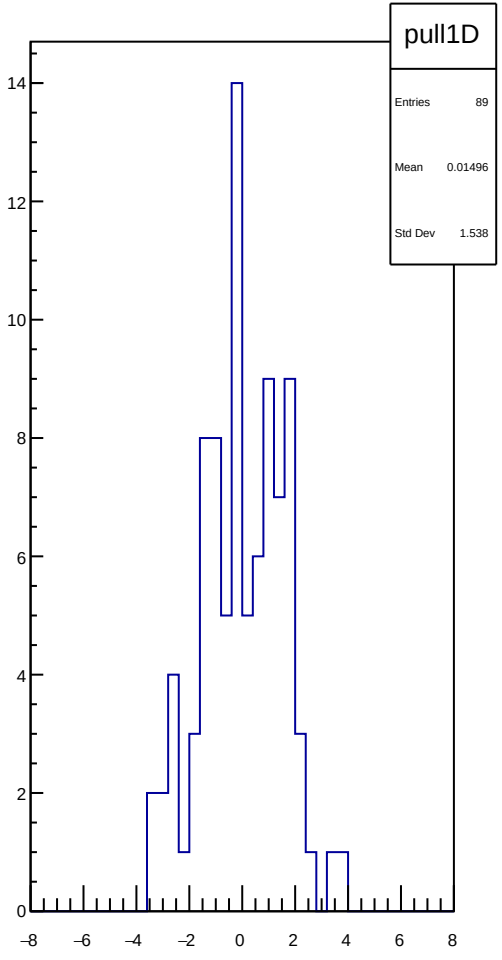

diff_bpm0i07Y_rms vs run
χ² / ndf 645.1 / 88
p0 4198 ± 3.138
4700
4600
4500
4400
4300
4200
4100
4000

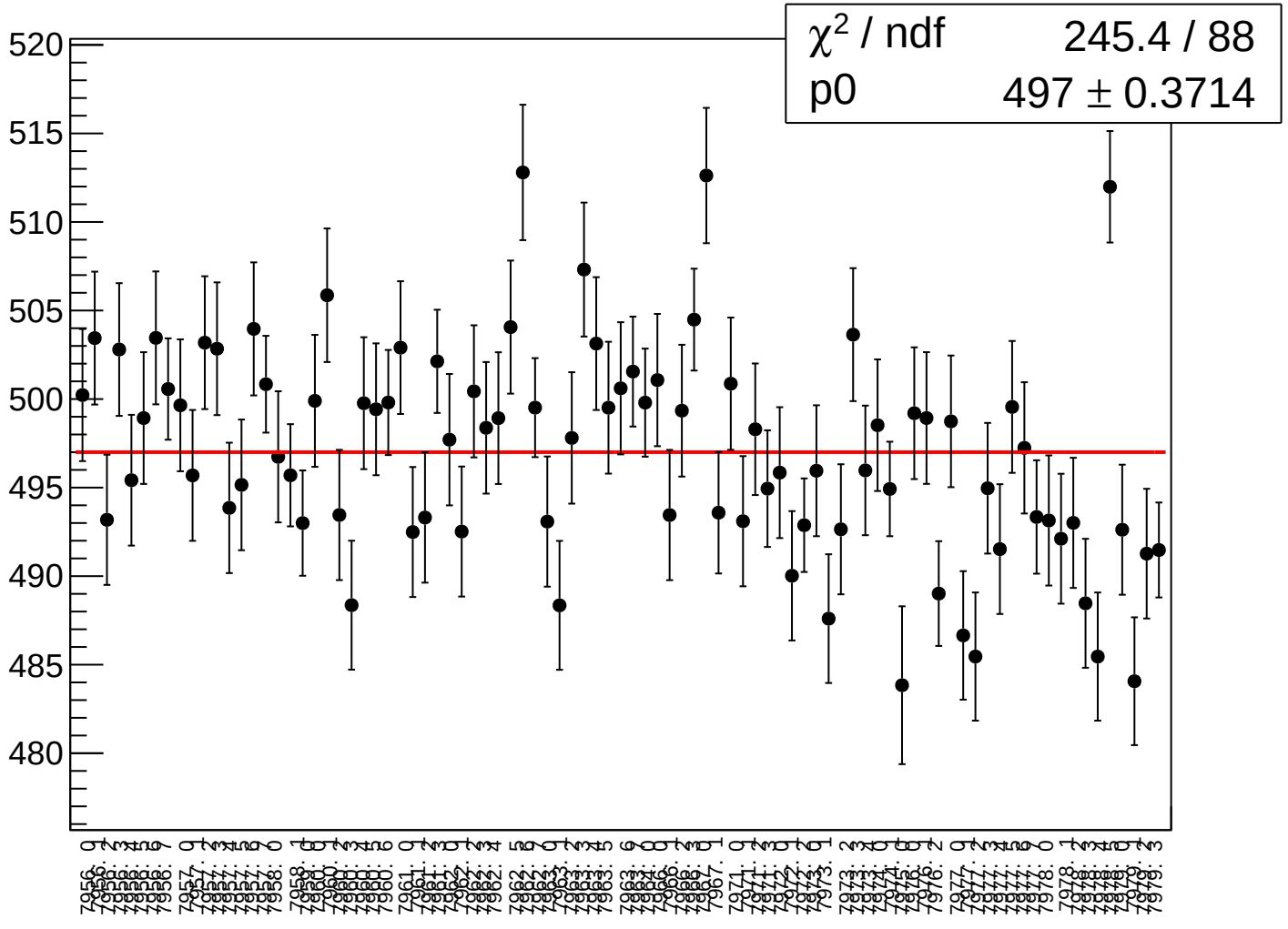

diff_bpm1i02X_mean vs run
χ² / ndf 151.3 / 88
p0 34.18 ± 0.6815
pull
Entries 89
Mean −289.8
Std Dev 0

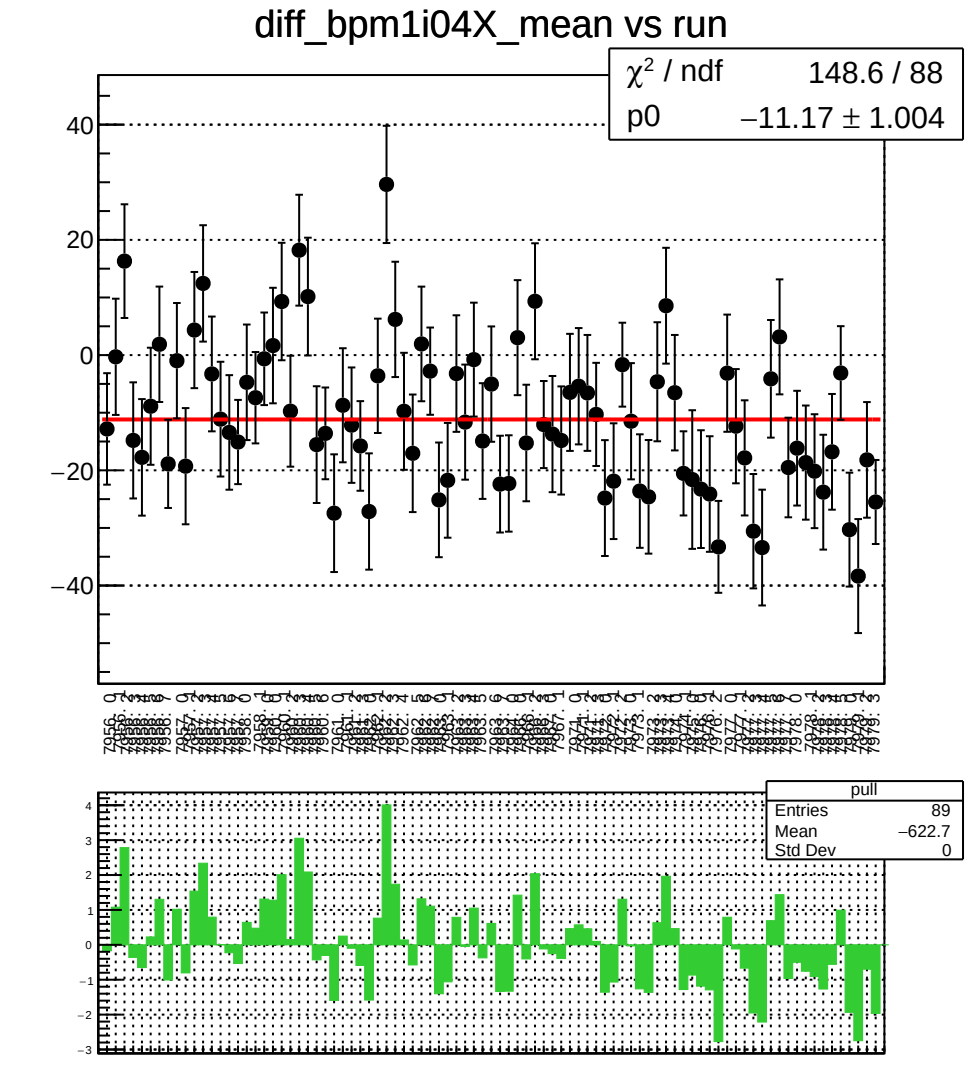

pull1D
Entries 89
Mean −0.01861
Std Dev 1.304

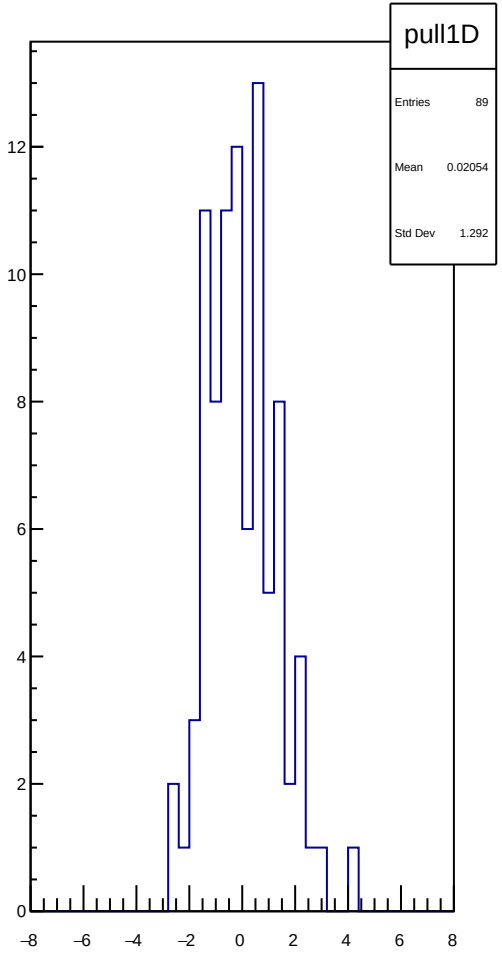

diff_bpm1i02X_rms vs run
χ² / ndf 428.3 / 88
p0 644.8 ± 0.4819
680
670
660
650
640
630
620

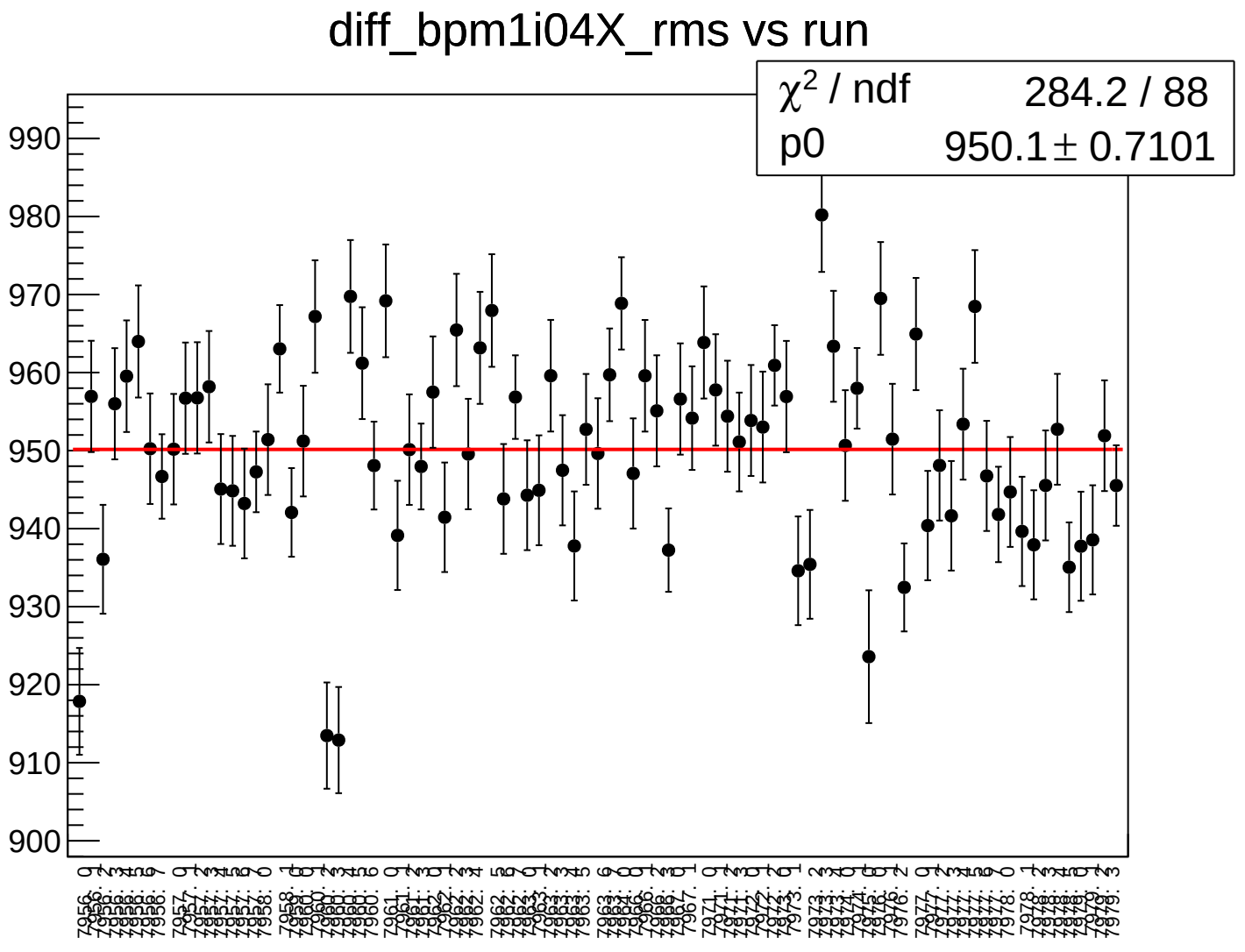

diff_bpm1i02Y_mean vs run
χ² / ndf 210.4 / 88
p0 −0.5493 ± 0.5253
20
10
0
−10
−20
pull
Entries 89
Mean −1594
Std Dev 0
4
3
2
1
0
−1
−2
−3

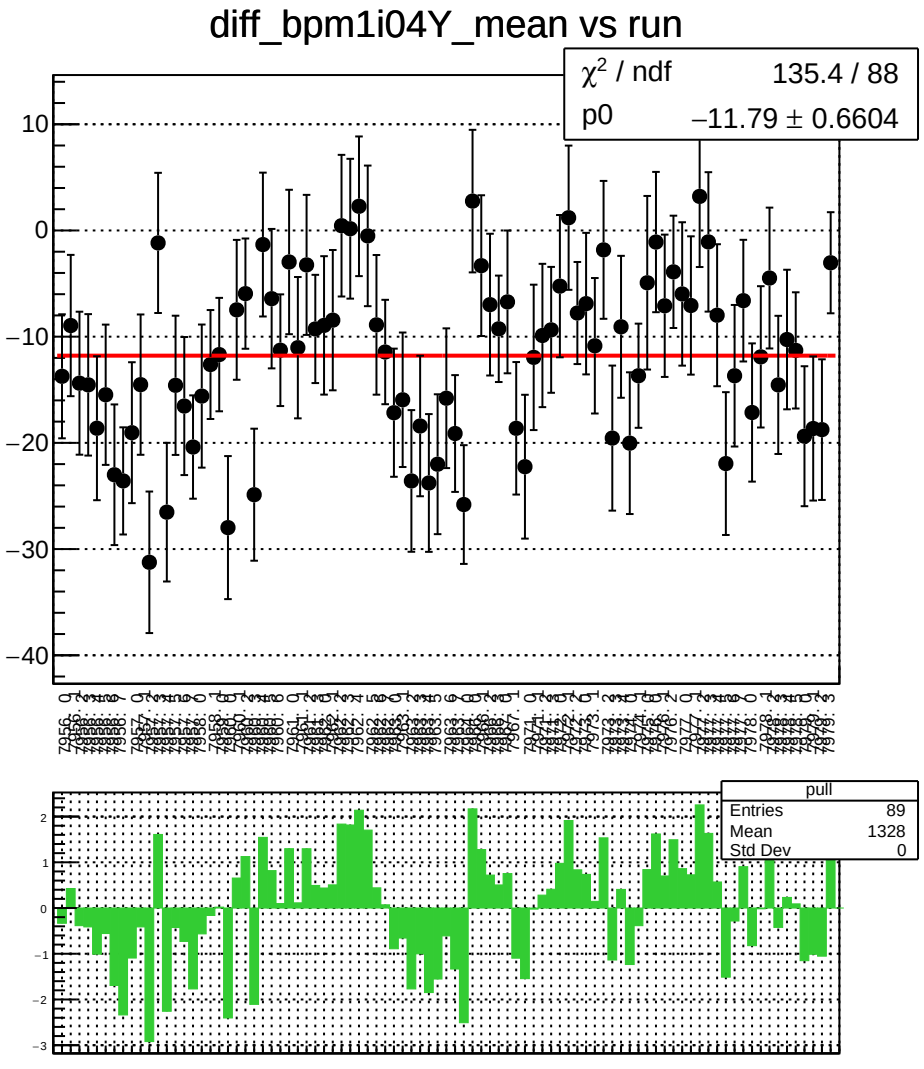

pull1D
Entries 89
Mean 0.01496
Std Dev 1.538
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

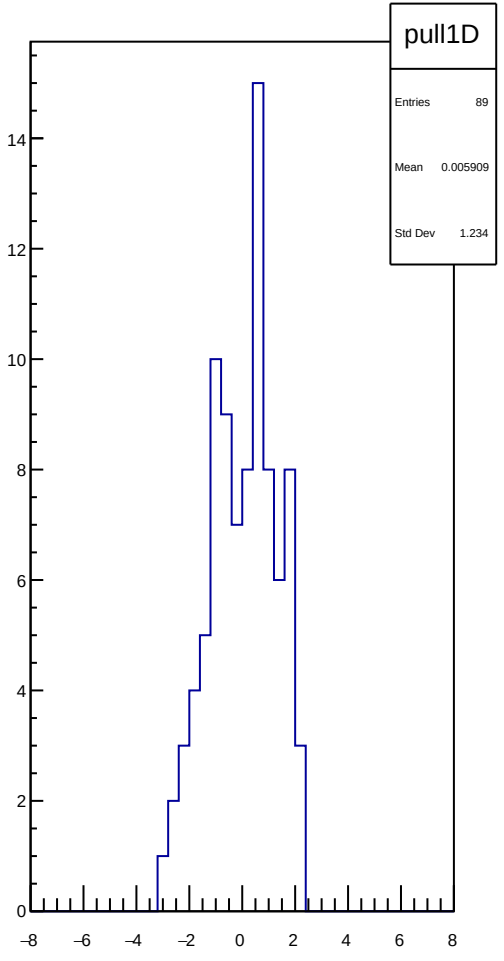

diff_bpm1i02Y_rms vs run
χ² / ndf 245.4 / 88
p0 497 ± 0.3714
520
515
510
505
500
495
490
485
480

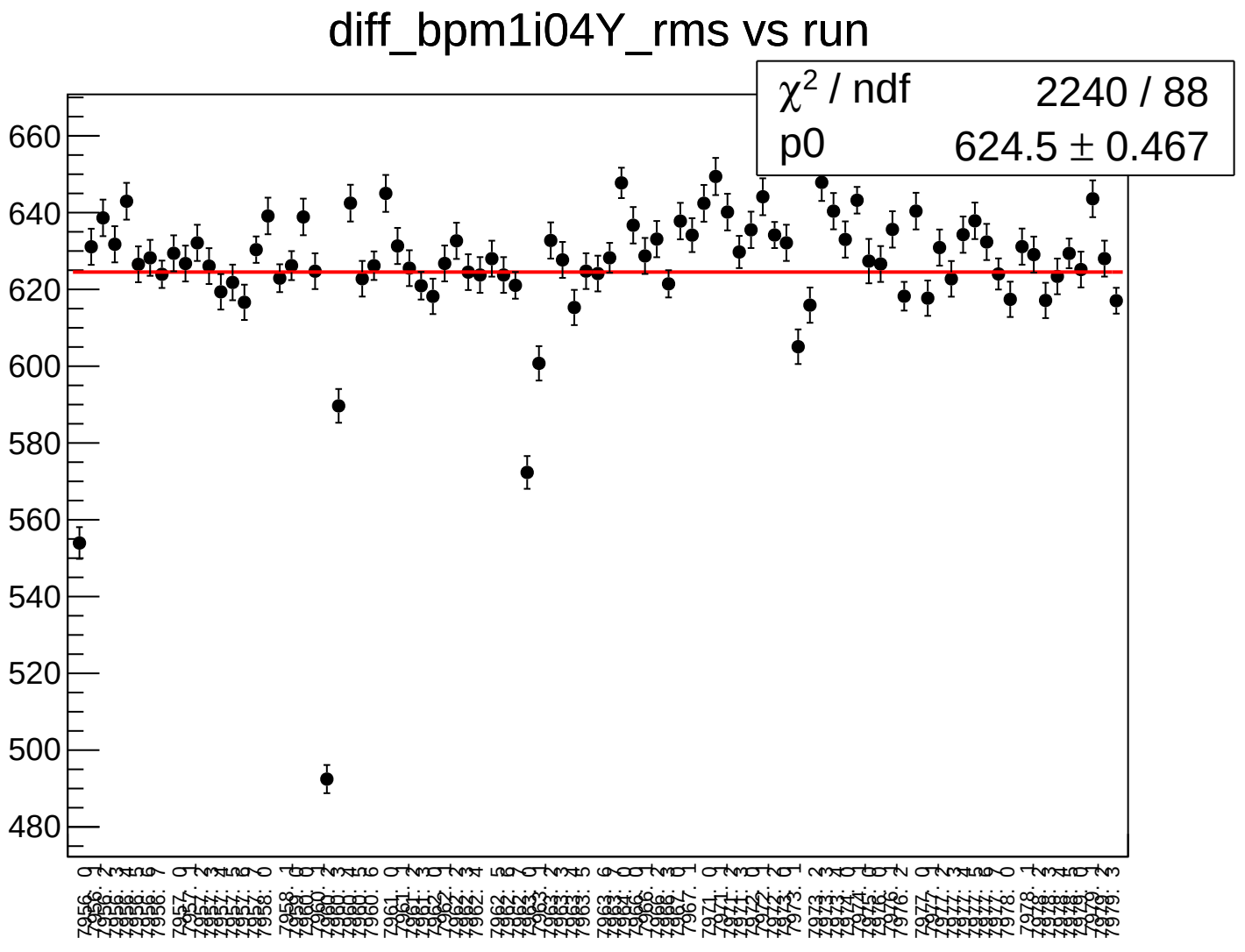

diff_bpm1i04X_mean vs run
χ² / ndf 148.6 / 88
p0 −11.17 ± 1.004
pull
Entries 89
Mean −622.7
Std Dev 0

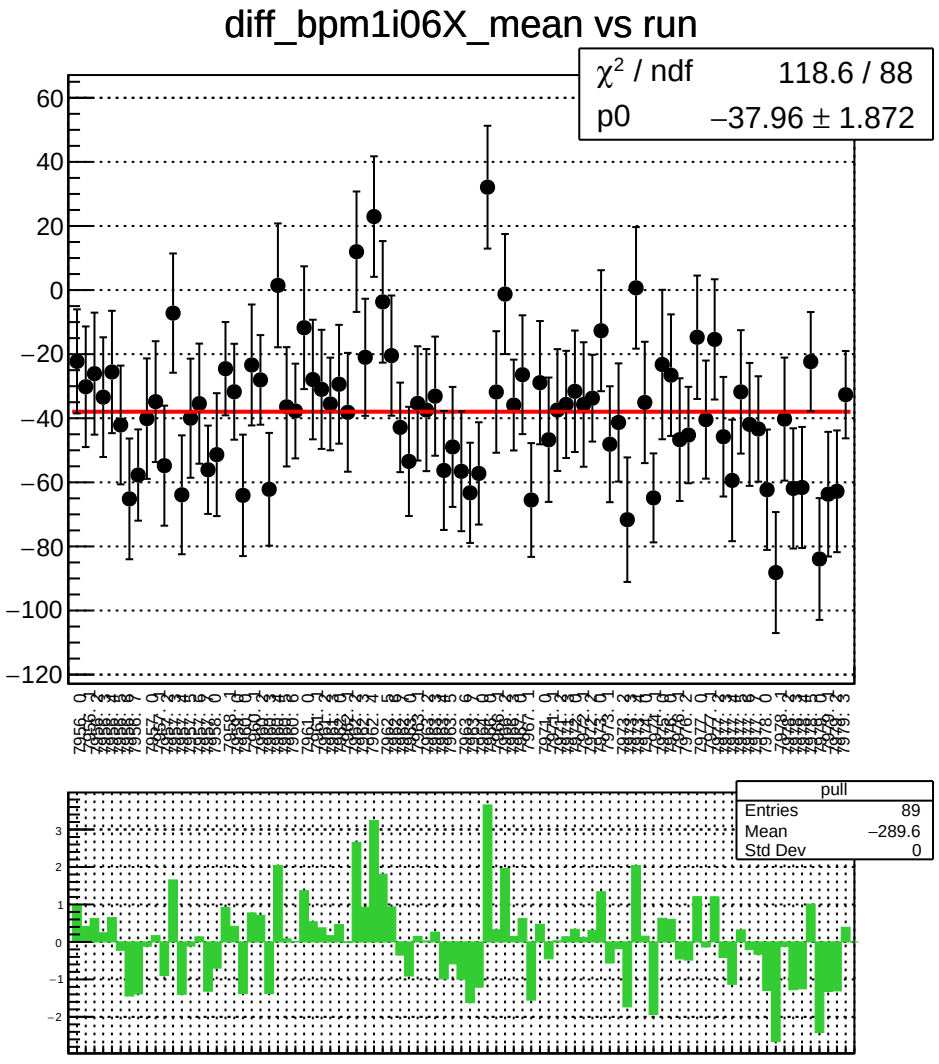

pull1D
Entries 89
Mean 0.02054
Std Dev 1.292

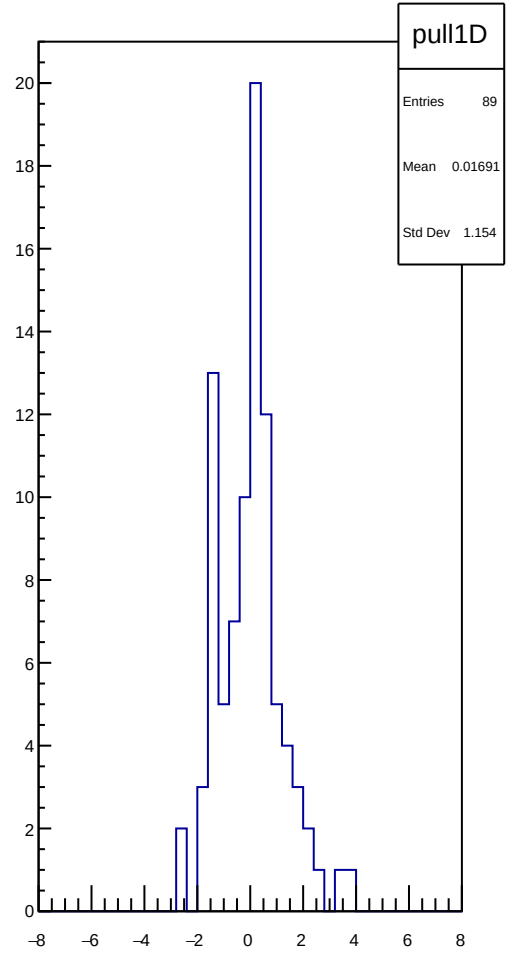

diff_bpm1i04X_rms vs run
χ² / ndf 284.2 / 88
p0 950.1 ± 0.7101
990
980
970
960
950
940
930
920
910
900

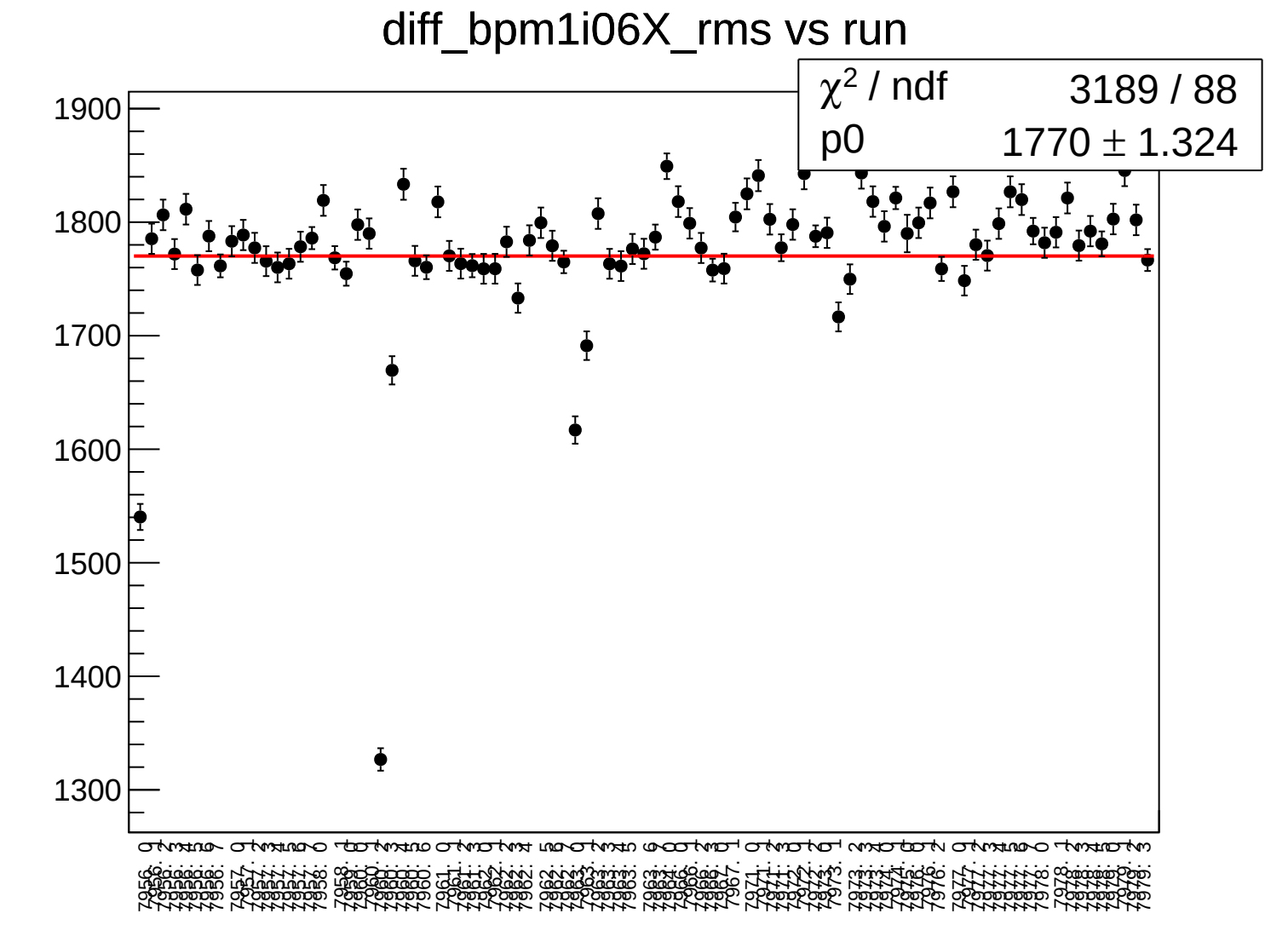

diff_bpm1i04Y_mean vs run
χ² / ndf 135.4 / 88
p0 −11.79 ± 0.6604
pull
Entries 89
Mean 1328
Std Dev 0

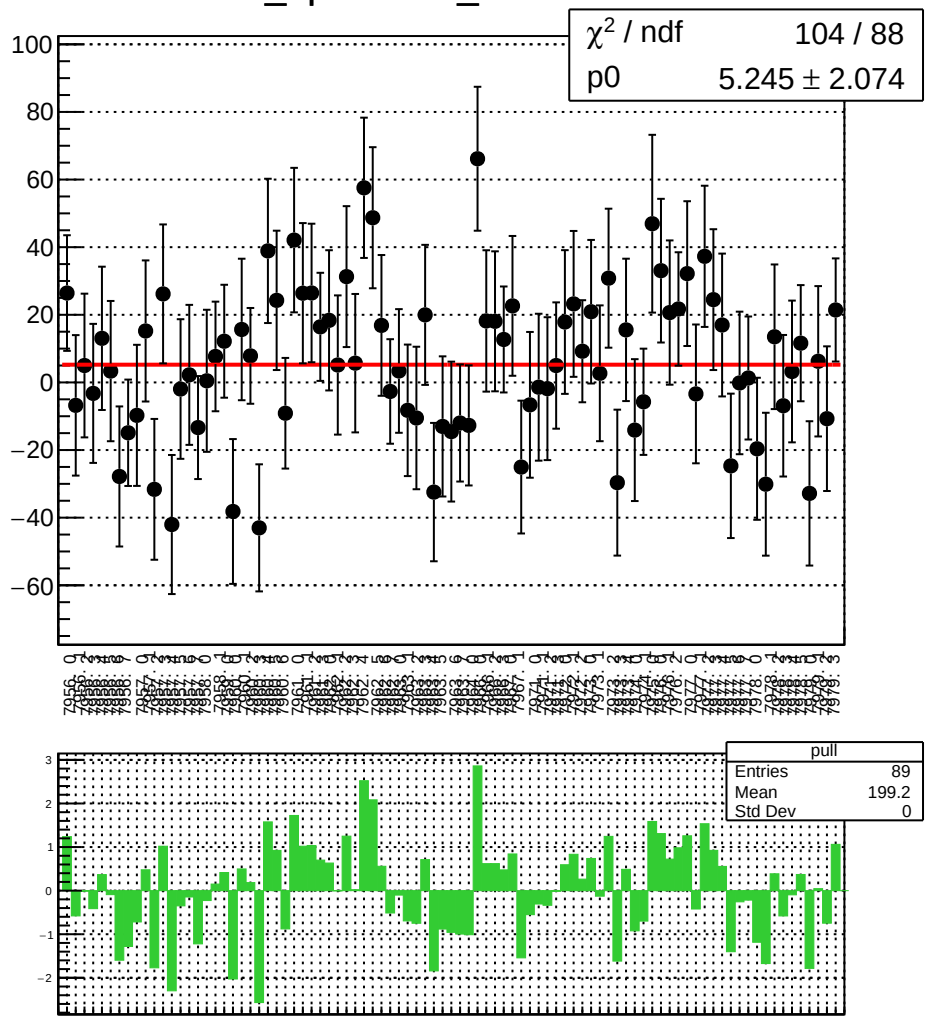

pull1D
Entries 89
Mean 0.005909
Std Dev 1.234

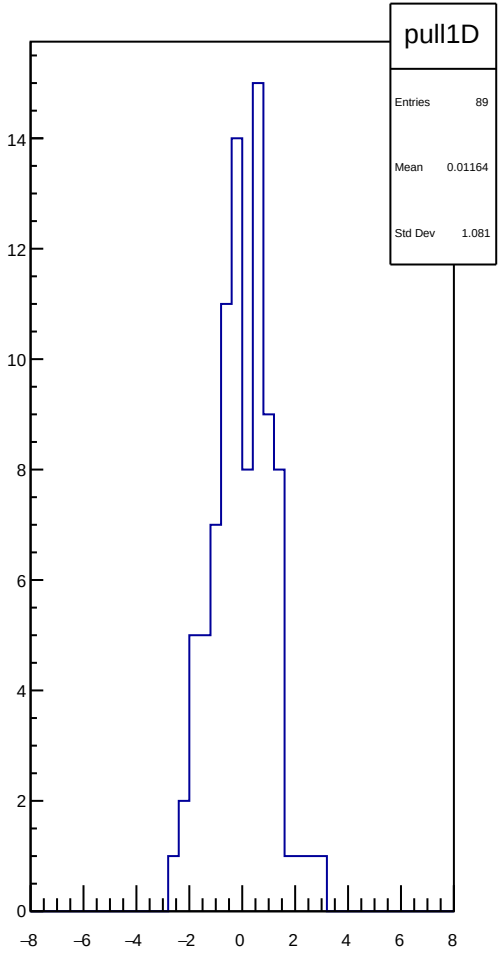

diff_bpm1i04Y_rms vs run
χ² / ndf 2240 / 88
p0 624.5 ± 0.467
660
640
620
600
580
560
540
520
500
480

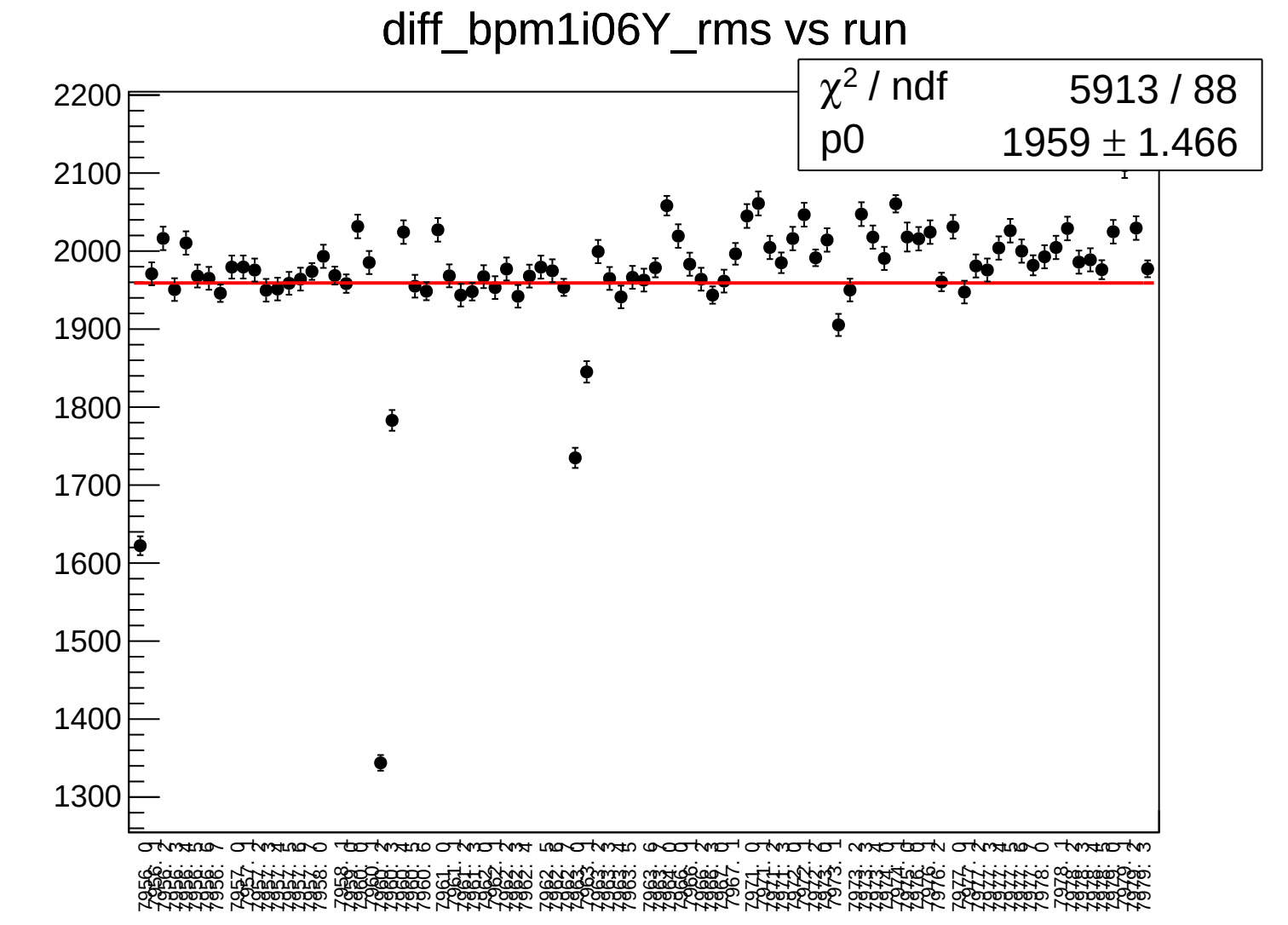

diff_bpm1i06X_mean vs run
χ² / ndf 118.6 / 88
p0 −37.96 ± 1.872
pull
Entries 89
Mean −289.6
Std Dev 0

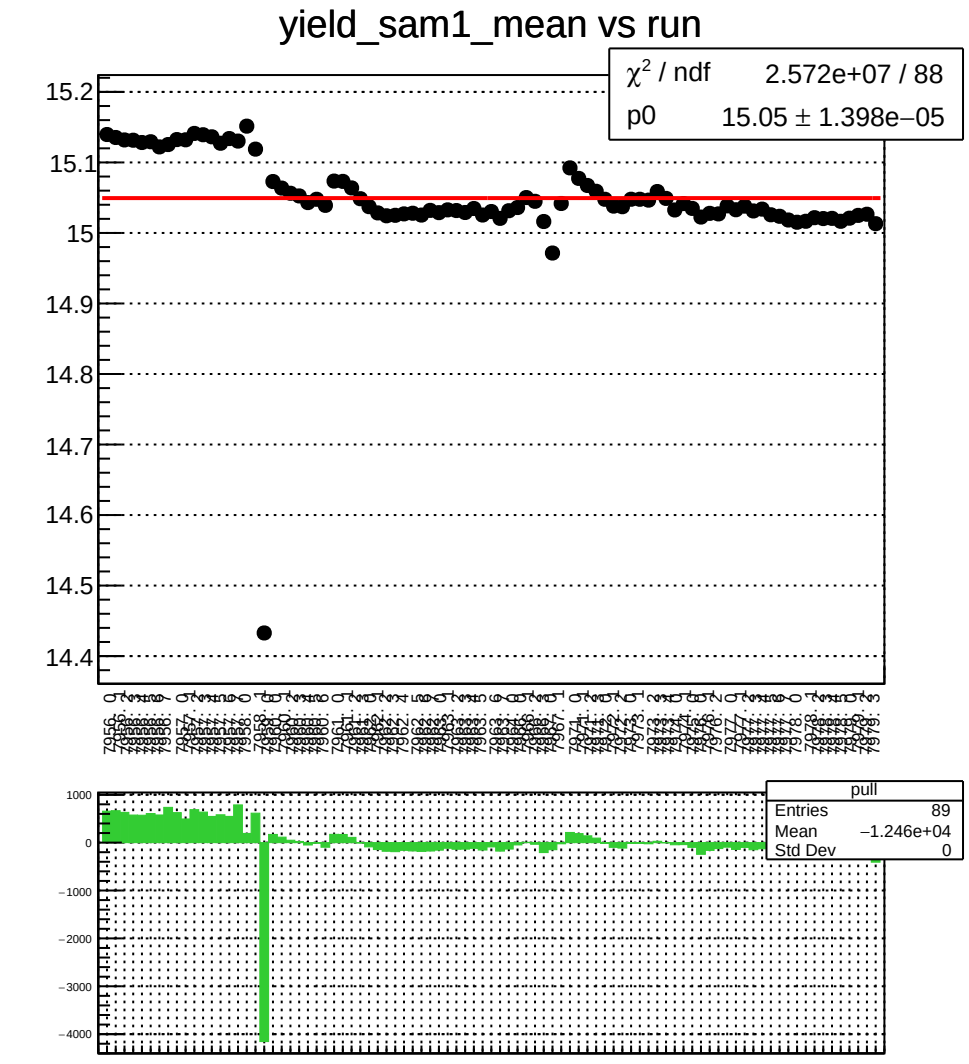

pull1D
Entries 89
Mean 0.01691
Std Dev 1.154

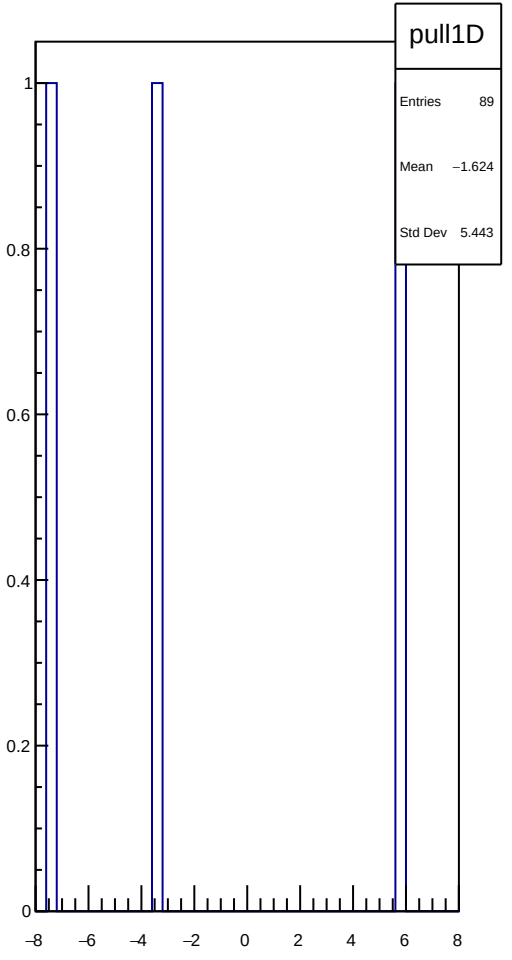

diff_bpm1i06X_rms vs run
χ² / ndf 3189 / 88
p0 1770 ± 1.324
1900
1800
1700
1600
1500
1400
1300

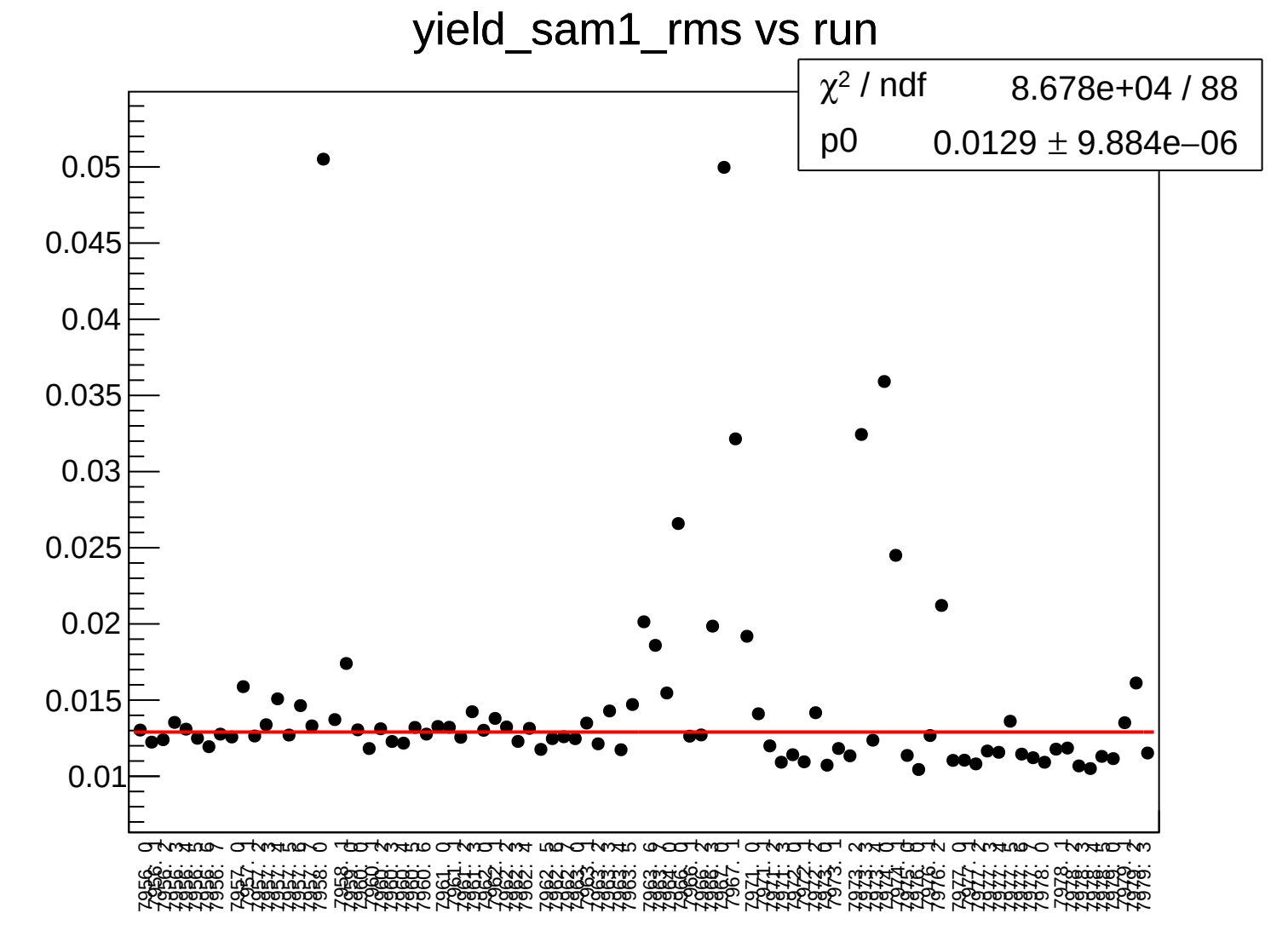

diff_bpm1i06Y_mean vs run
$\chi^2$ / ndf 104 / 88
p0 5.245 ± 2.074
pull
Entries 89
Mean 199.2
Std Dev 0

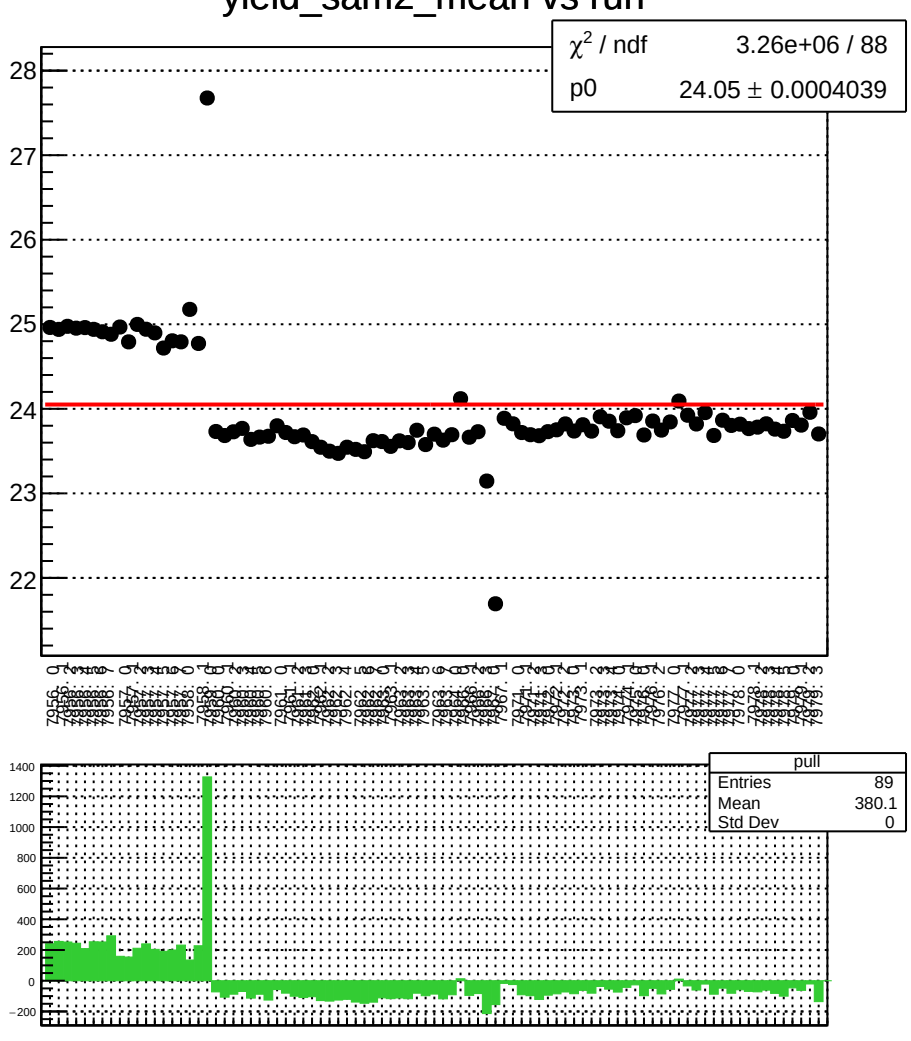

pull1D
Entries 89
Mean 0.01164
Std Dev 1.081

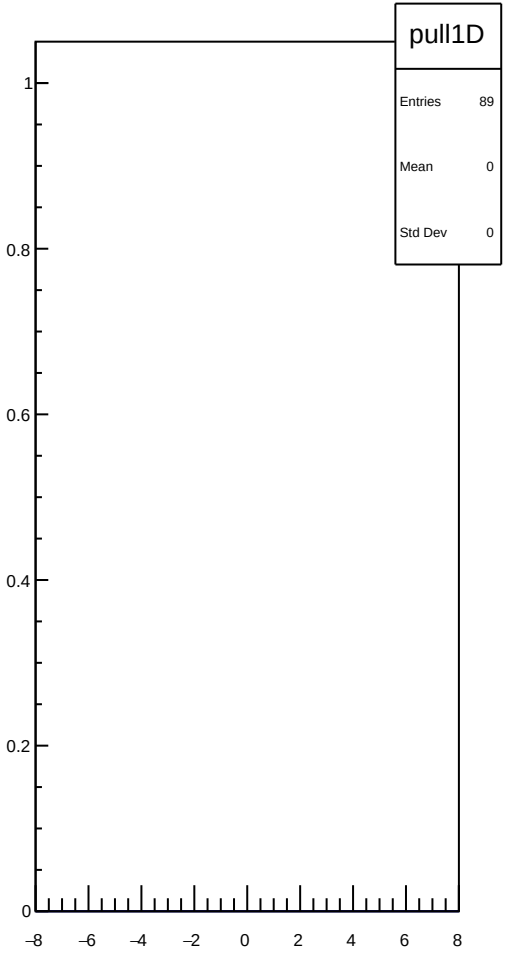

diff_bpm1i06Y_rms vs run
$\chi^2$ / ndf 5913 / 88
p0 1959 ± 1.466
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

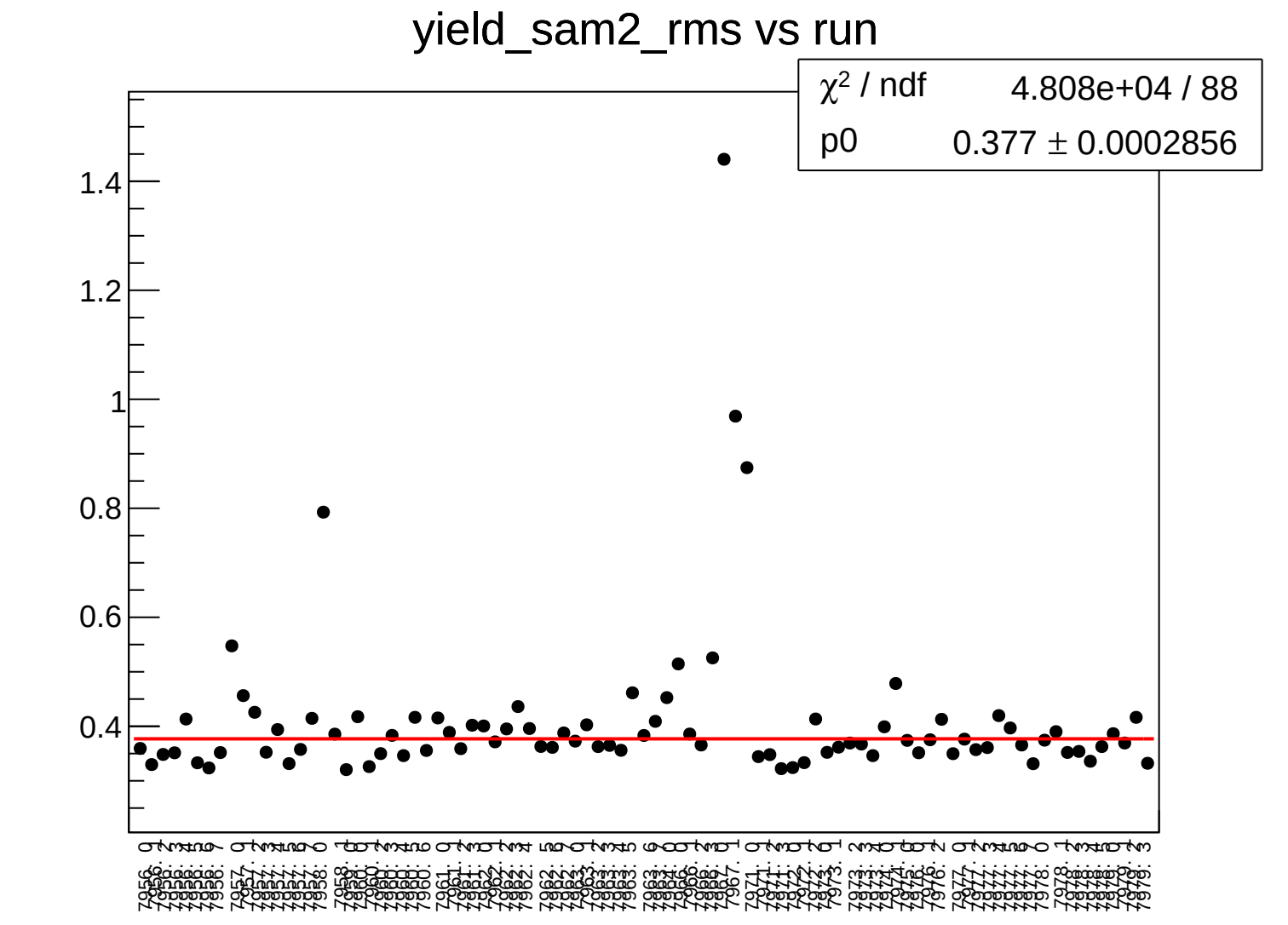

yield_sam1_mean vs run
χ² / ndf 2.572e+07 / 88
p0 15.05 ± 1.398e−05
15.2
15.1
15
14.9
14.8
14.7
14.6
14.5
14.4
pull
Entries 89
Mean −1.246e+04
Std Dev 0
1000
0
−1000
−2000
−3000
−4000

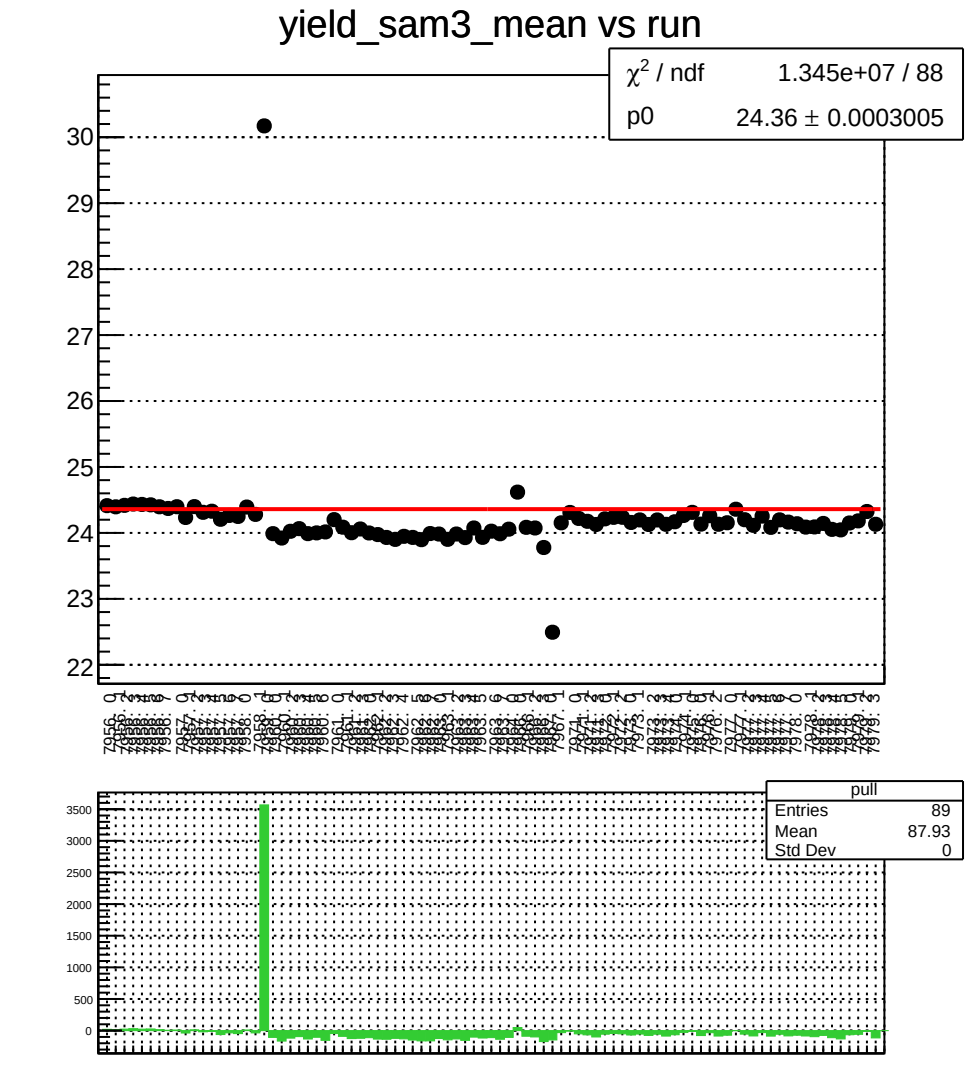

pull1D
Entries 89
Mean −1.624
Std Dev 5.443
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

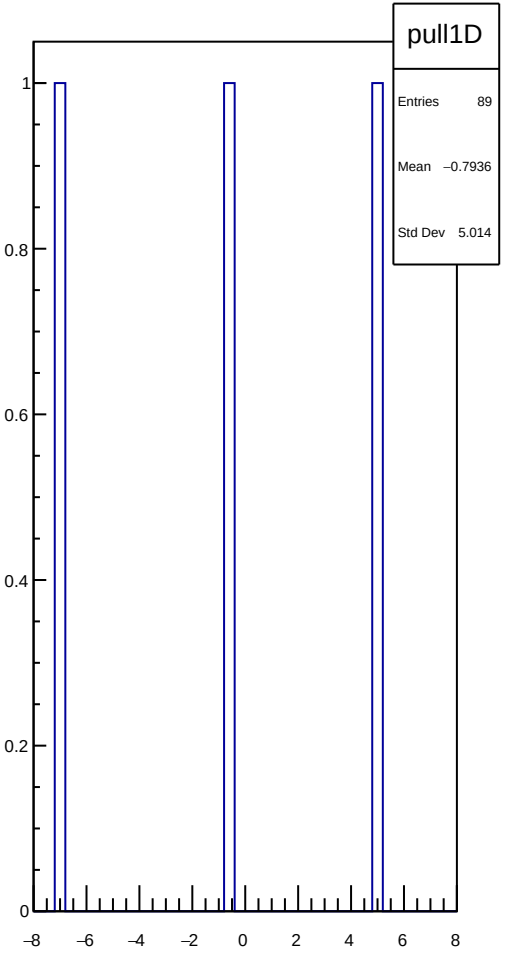

yield_sam1_rms vs run
χ² / ndf 8.678e+04 / 88
p0 0.0129 ± 9.884e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

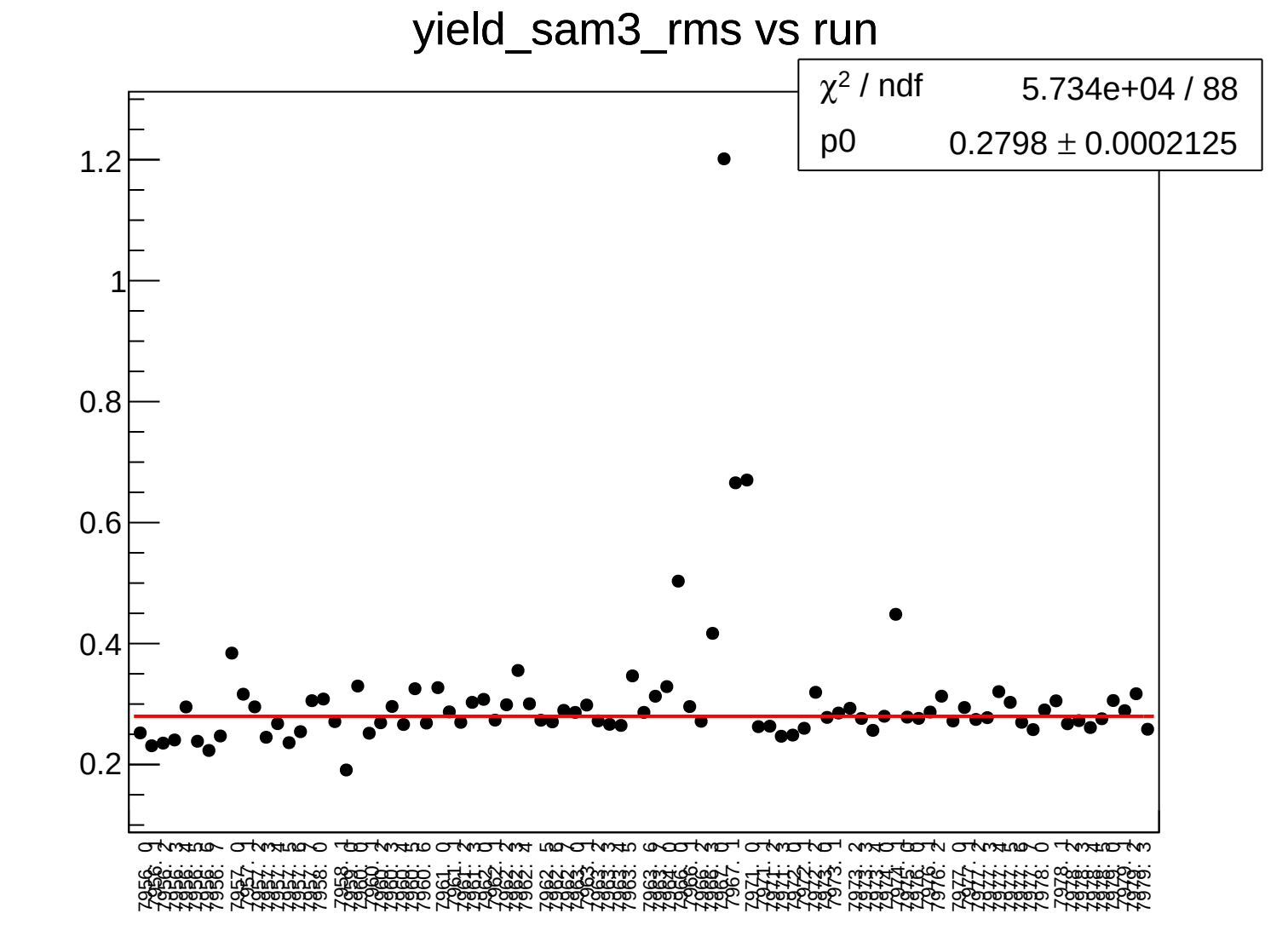

yield_sam2_mean vs run
χ² / ndf 3.26e+06 / 88
p0 24.05 ± 0.0004039
pull
Entries 89
Mean 380.1
Std Dev 0

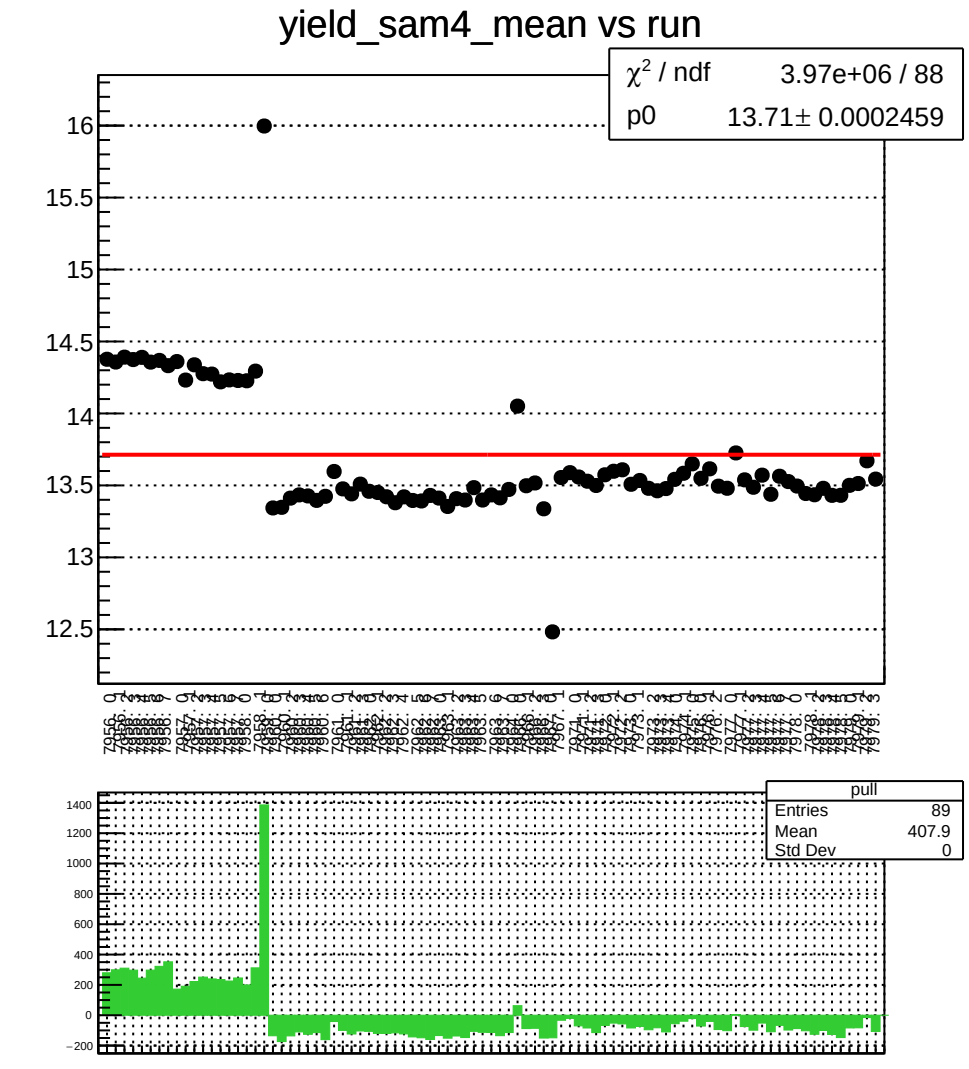

pull1D
Entries 89
Mean 0
Std Dev 0

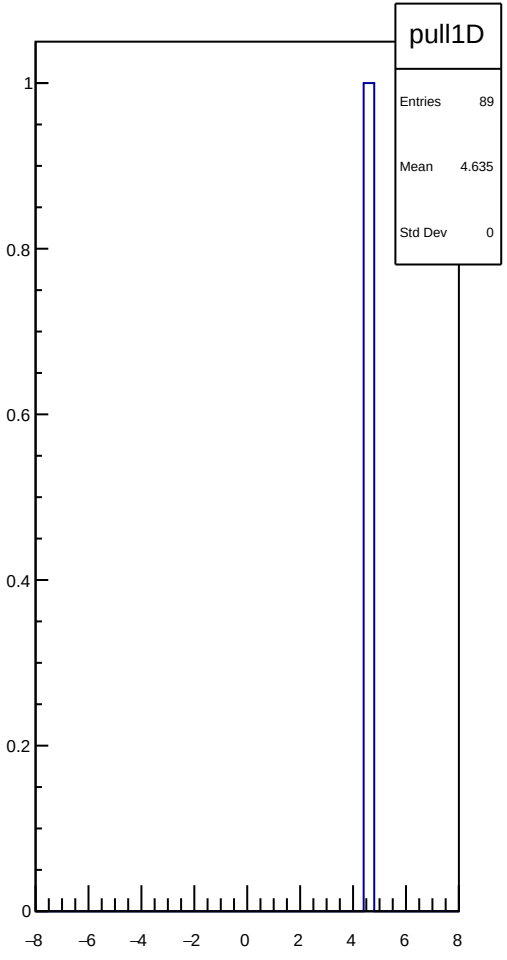

yield_sam2_rms vs run
χ² / ndf 4.808e+04 / 88
p0 0.377 ± 0.0002856
1.4
1.2
1
0.8
0.6
0.4

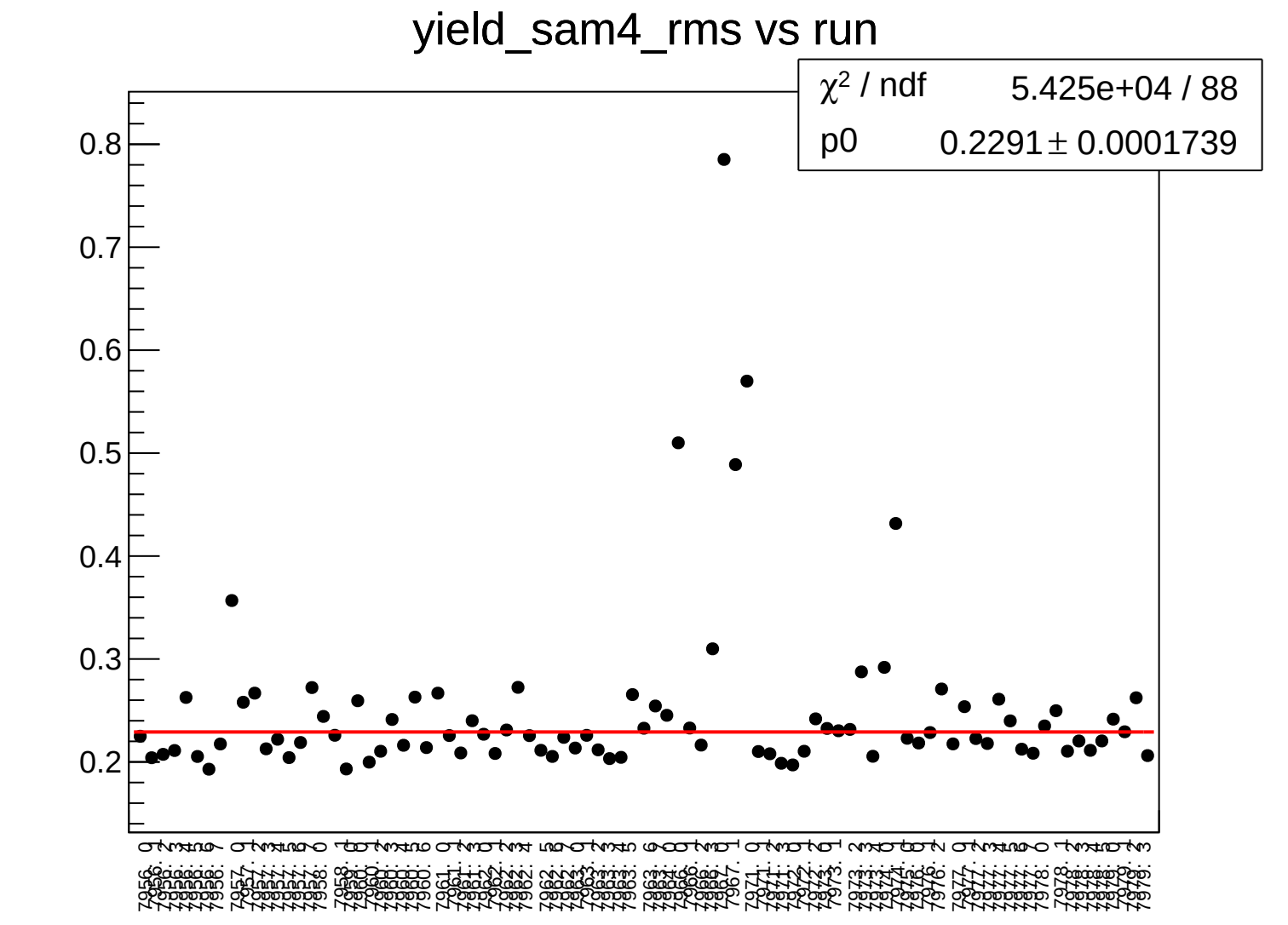

yield_sam3_mean vs run
χ² / ndf 1.345e+07 / 88
p0 24.36 ± 0.0003005
pull
Entries 89
Mean 87.93
Std Dev 0

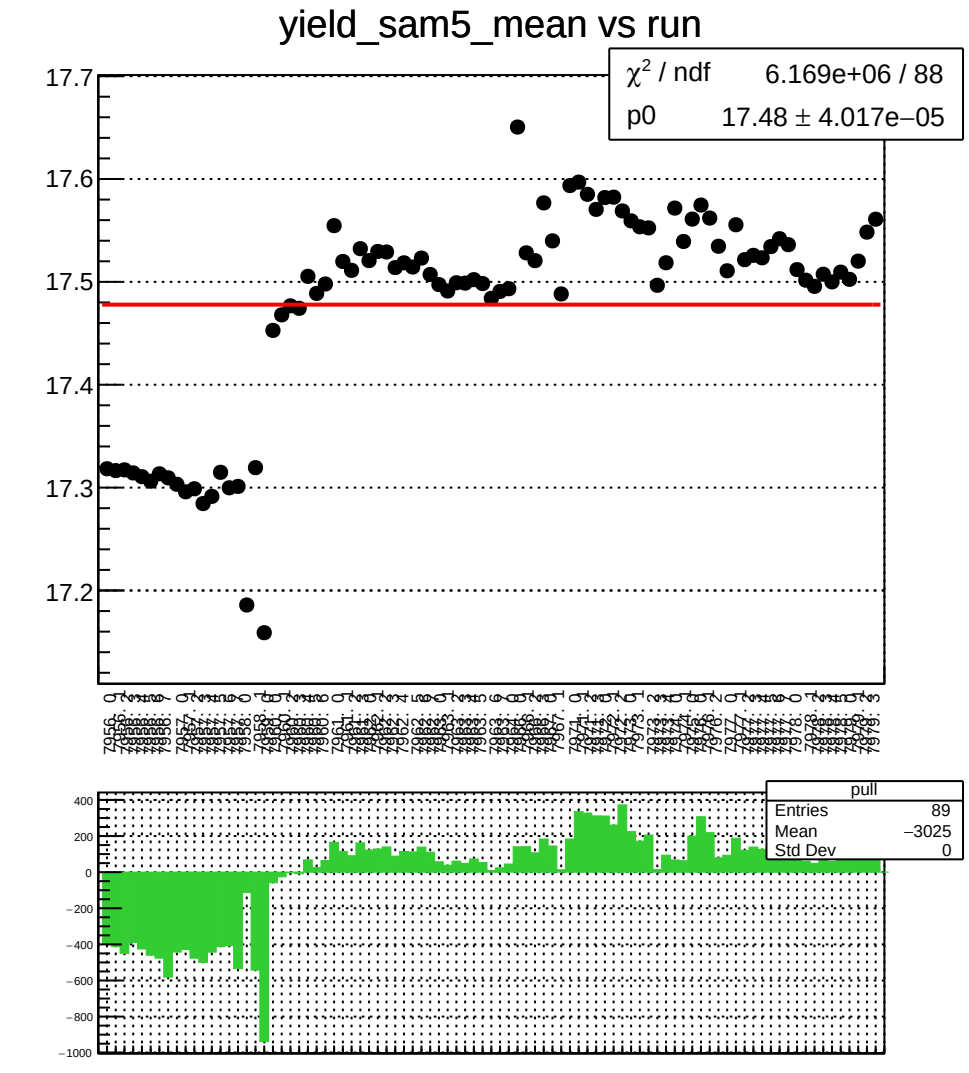

pull1D
Entries 89
Mean −0.7936
Std Dev 5.014

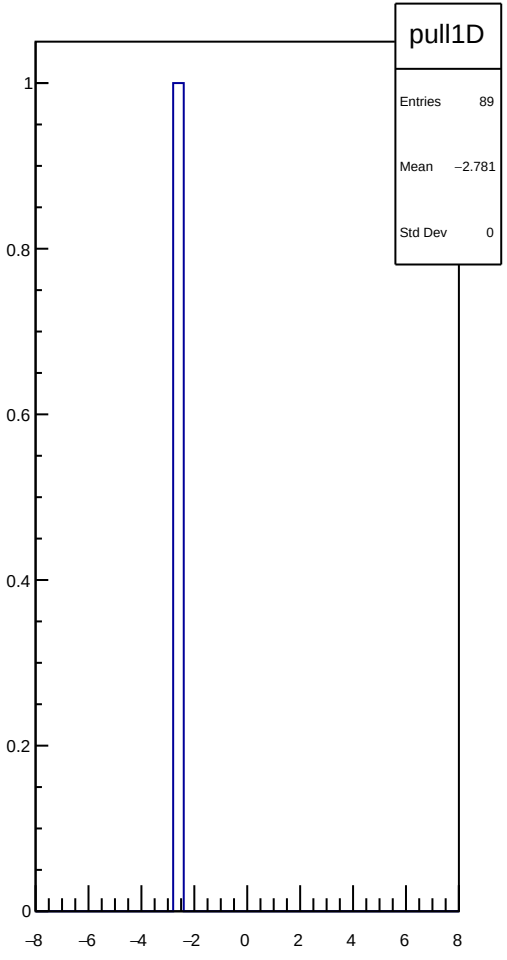

yield_sam3_rms vs run
χ² / ndf 5.734e+04 / 88
p0 0.2798 ± 0.0002125
1.2
1
0.8
0.6
0.4
0.2

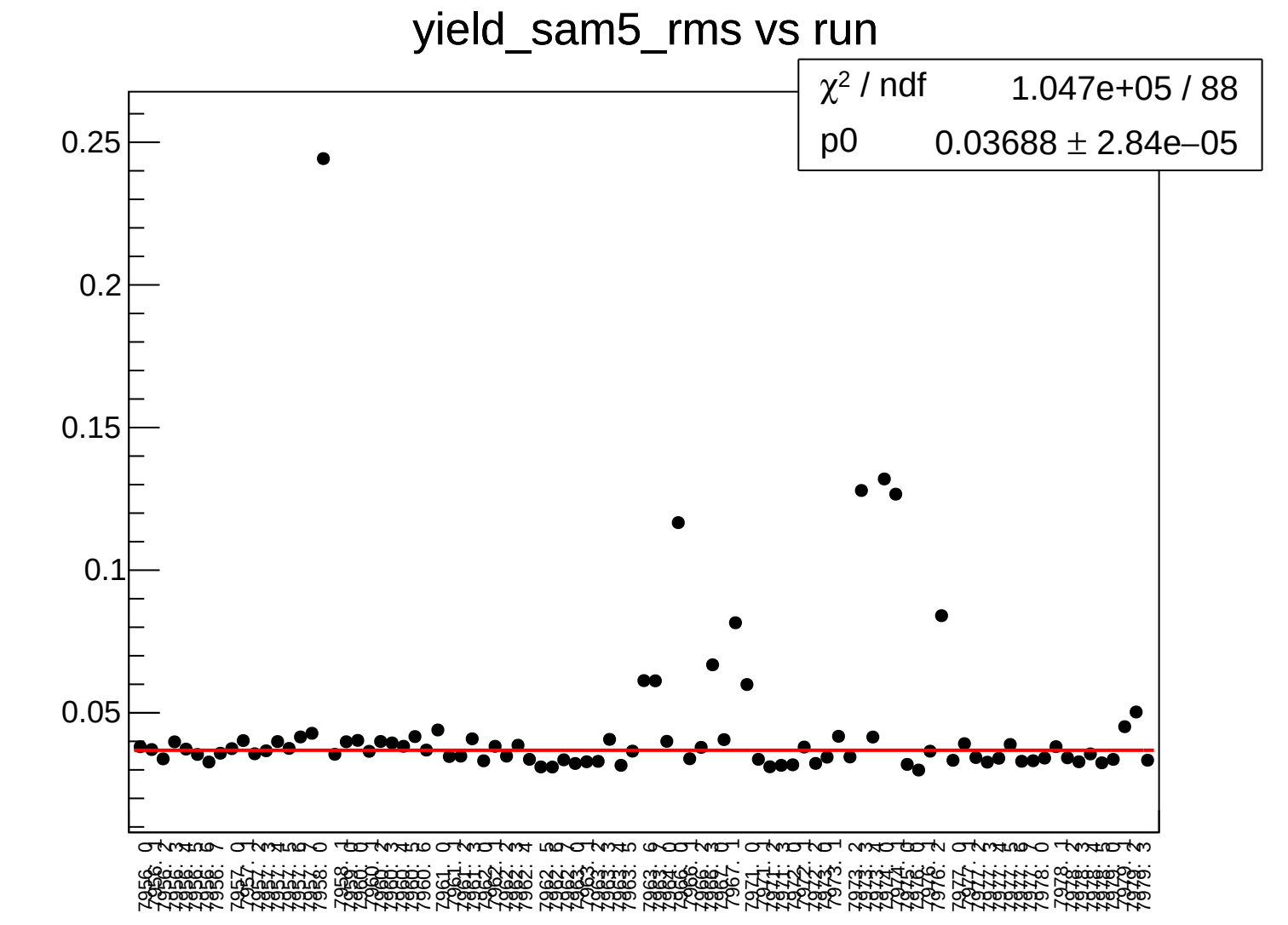

yield_sam4_mean vs run
χ² / ndf 3.97e+06 / 88
p0 13.71± 0.0002459
16
15.5
15
14.5
14
13.5
13
12.5
pull
Entries 89
Mean 407.9
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200

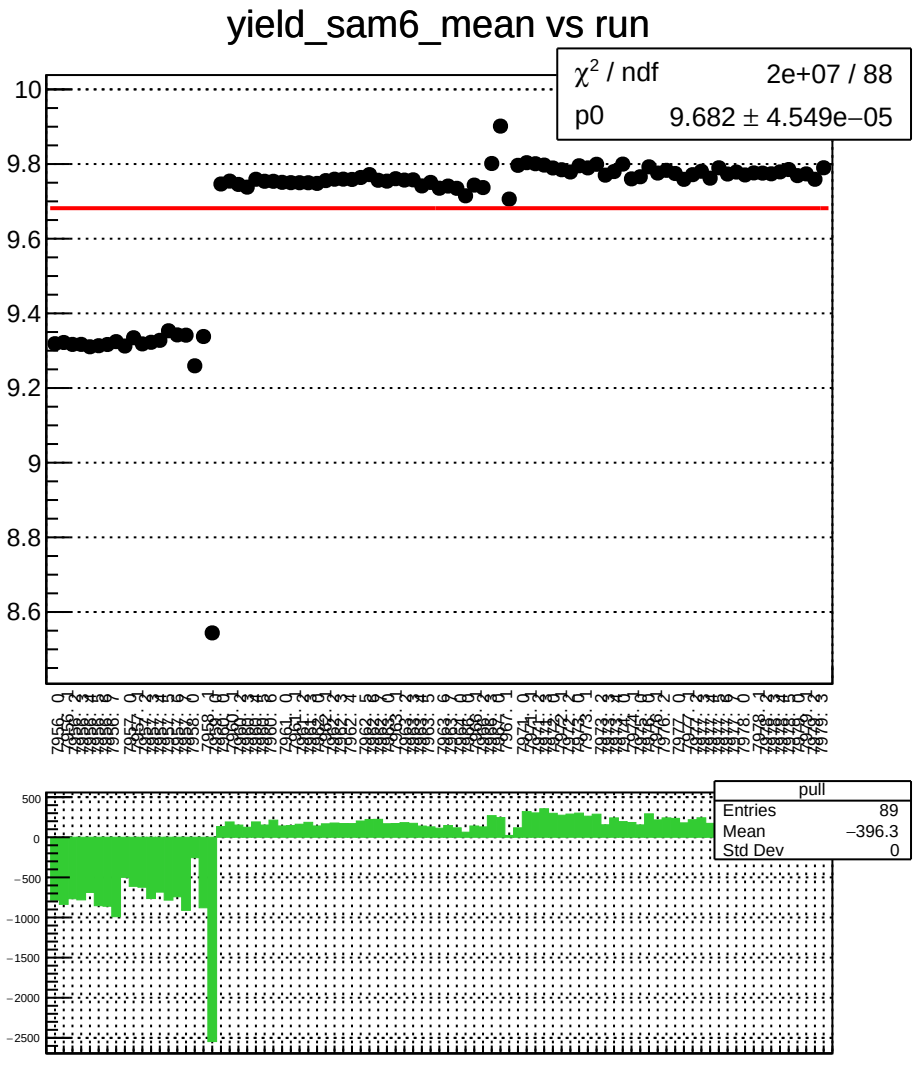

pull1D
Entries 89
Mean 4.635
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

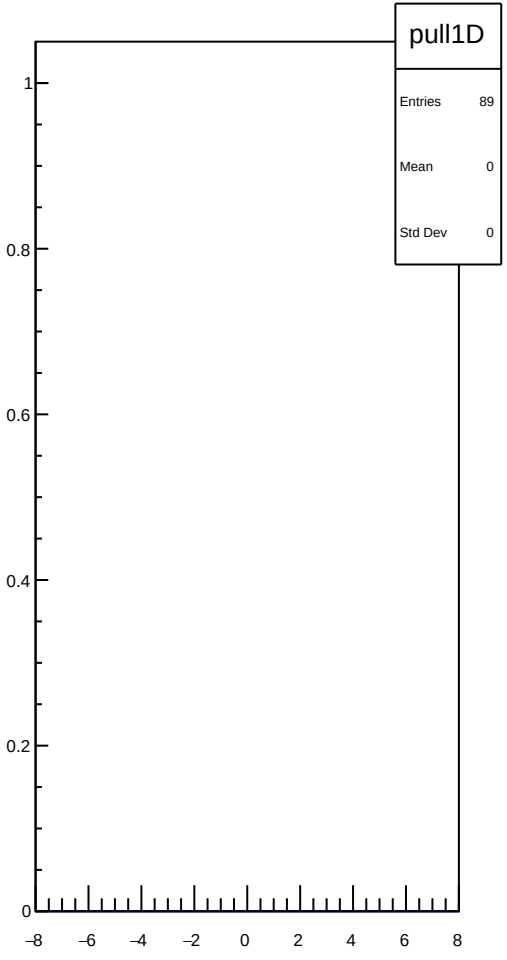

yield_sam4_rms vs run
$\chi^2$ / ndf 5.425e+04 / 88
p0 0.2291 ± 0.0001739
0.8
0.7
0.6
0.5
0.4
0.3
0.2

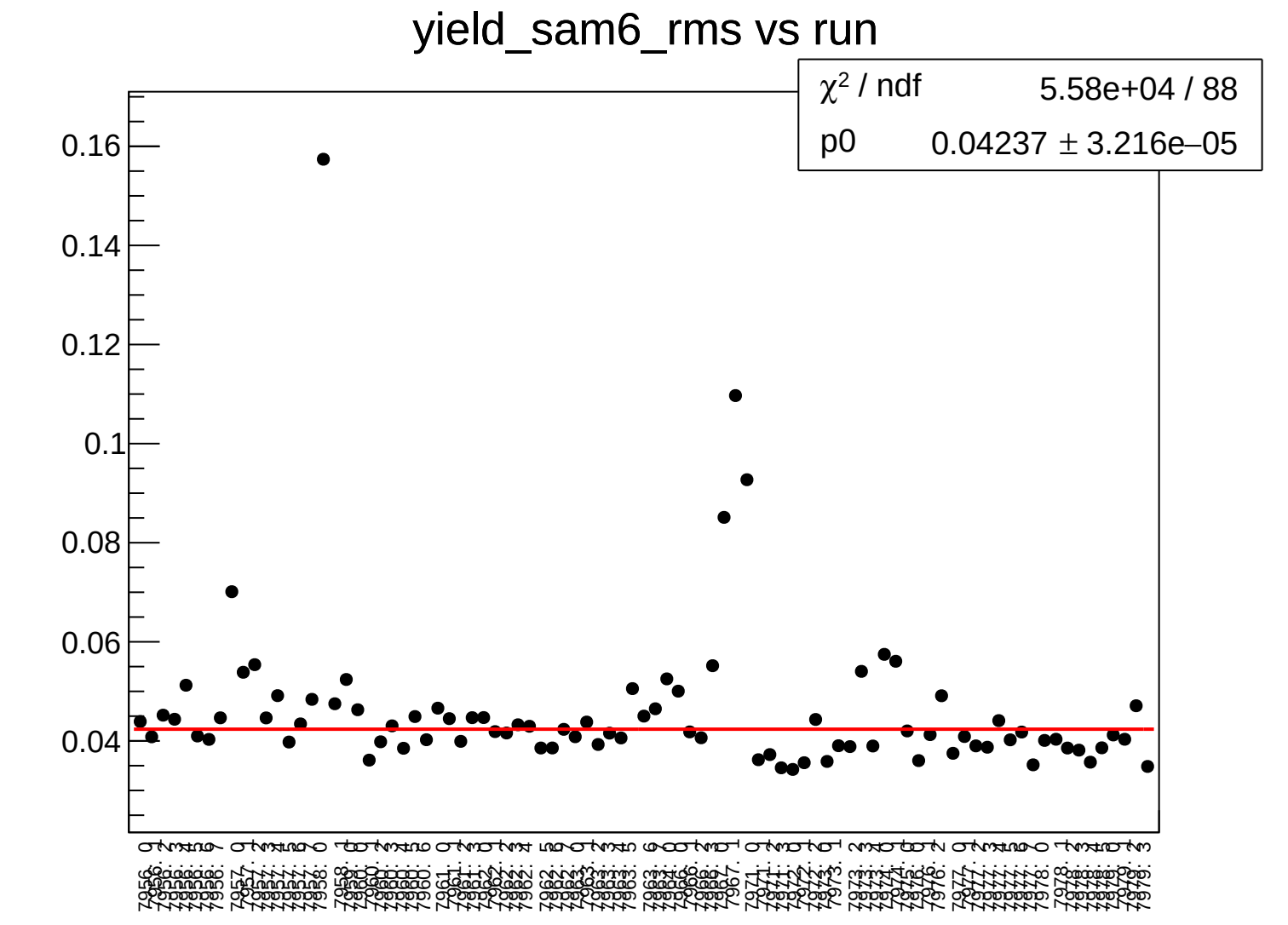

yield_sam5_mean vs run
χ² / ndf 6.169e+06 / 88
p0 17.48 ± 4.017e−05
17.7
17.6
17.5
17.4
17.3
17.2
pull
Entries 89
Mean −3025
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

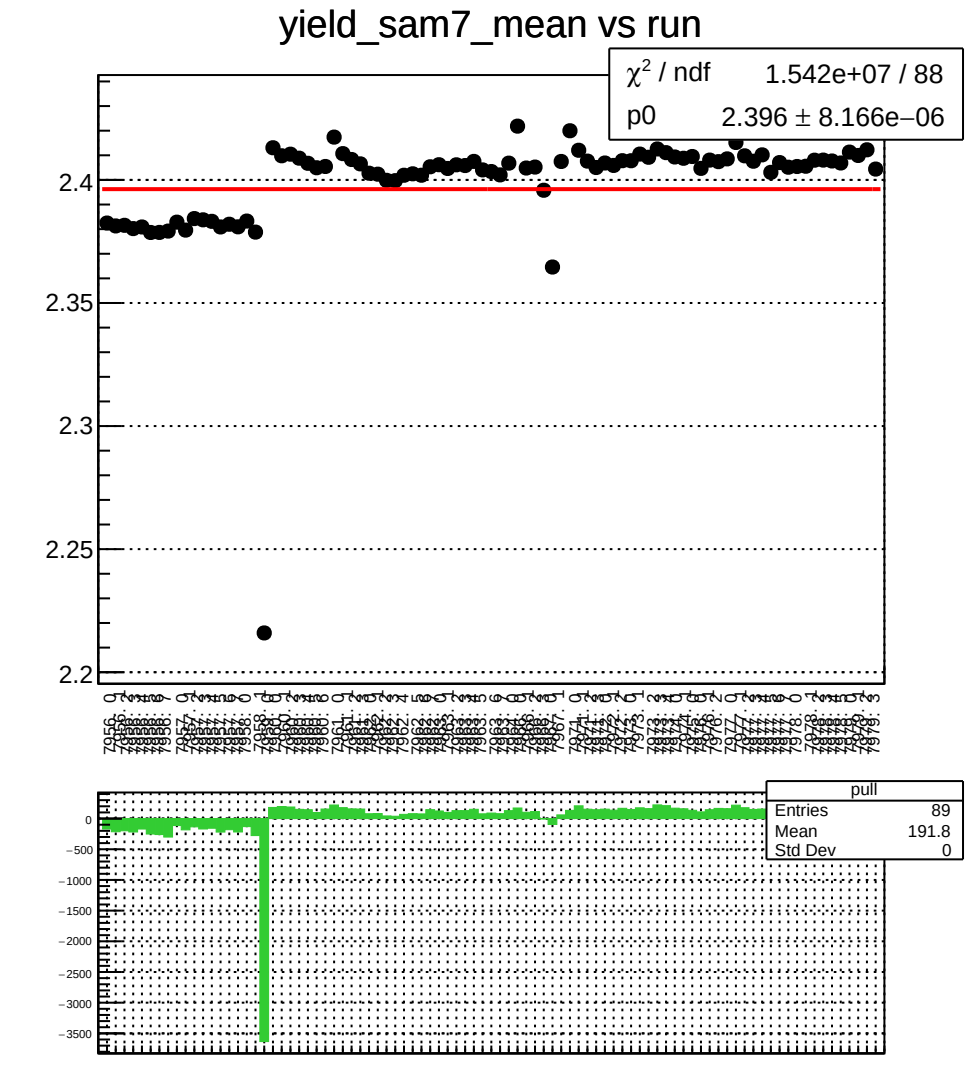

pull1D
Entries 89
Mean −2.781
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

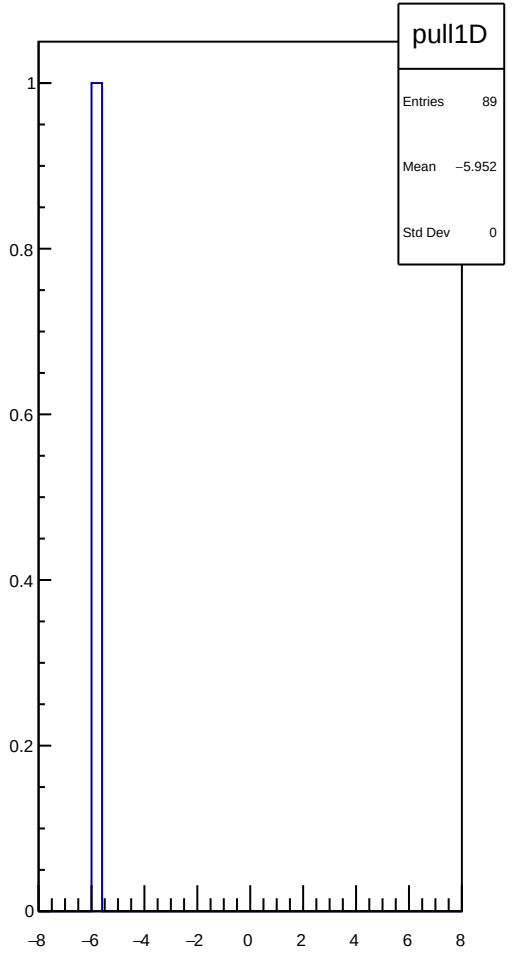

yield_sam5_rms vs run
χ² / ndf 1.047e+05 / 88
p0 0.03688 ± 2.84e−05
0.25
0.2
0.15
0.1
0.05

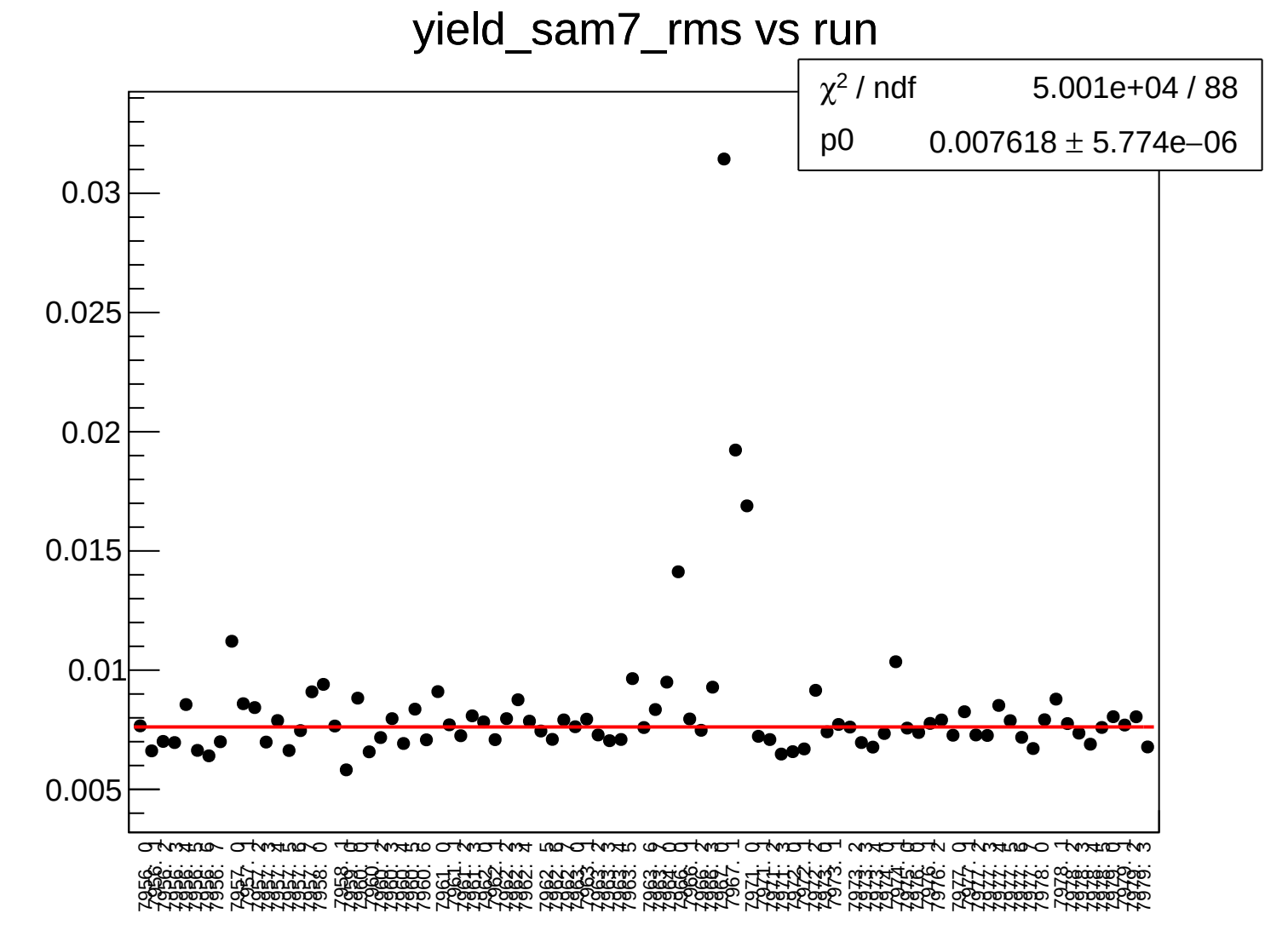

yield_sam6_mean vs run
χ² / ndf 2e+07 / 88
p0 9.682 ± 4.549e−05
pull
Entries 89
Mean −396.3
Std Dev 0

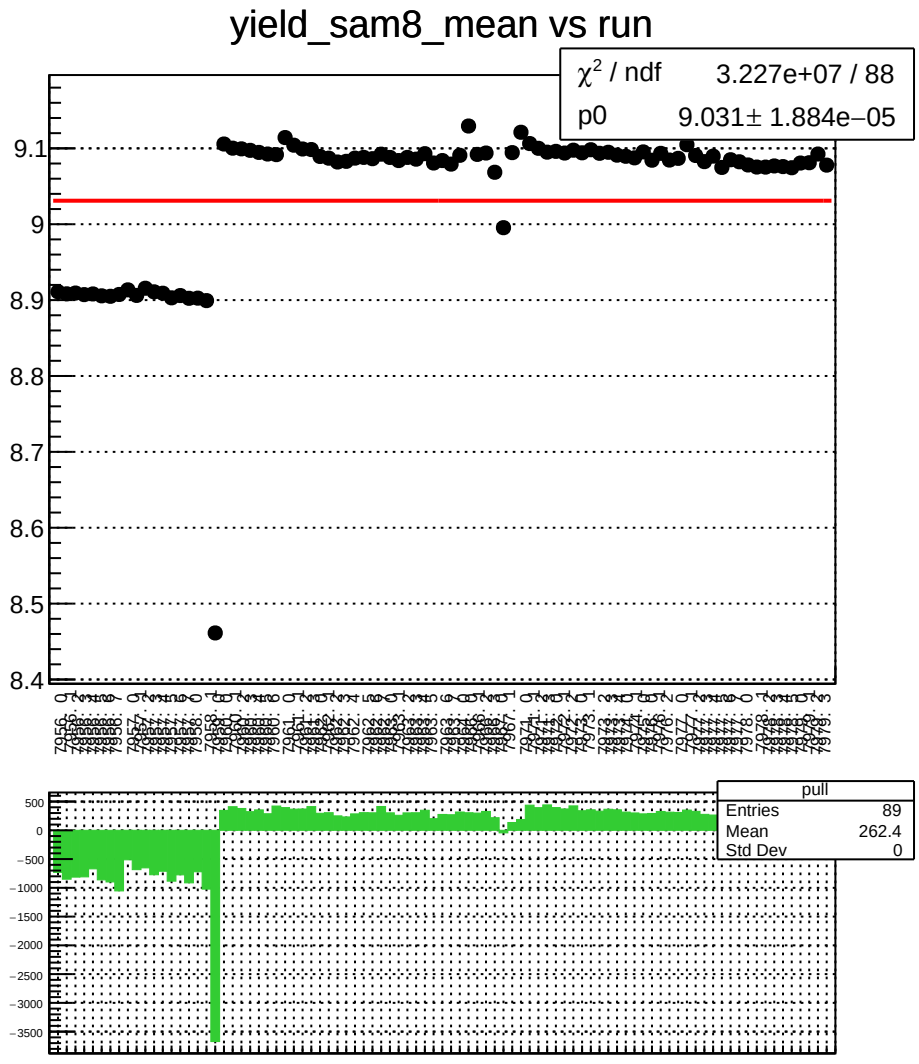

pull1D
Entries 89
Mean 0
Std Dev 0

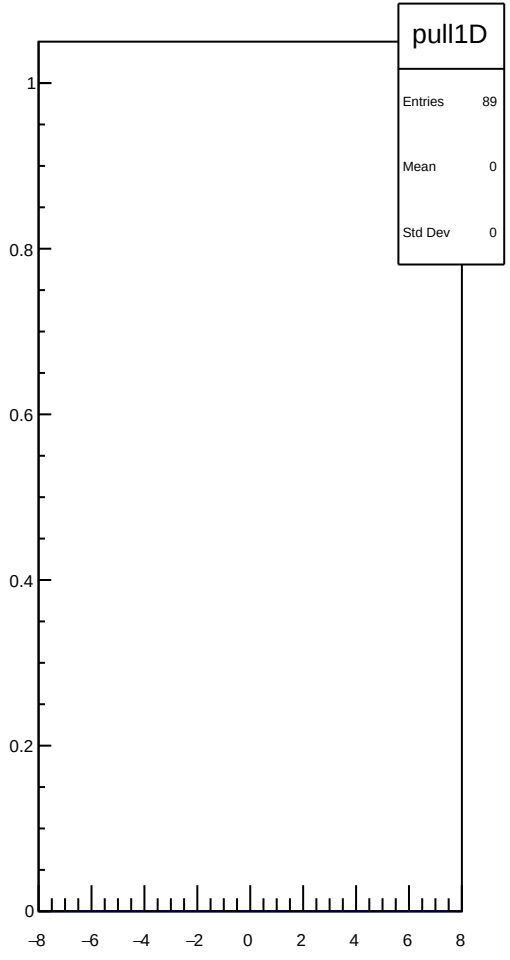

yield_sam6_rms vs run
χ² / ndf 5.58e+04 / 88
p0 0.04237 ± 3.216e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

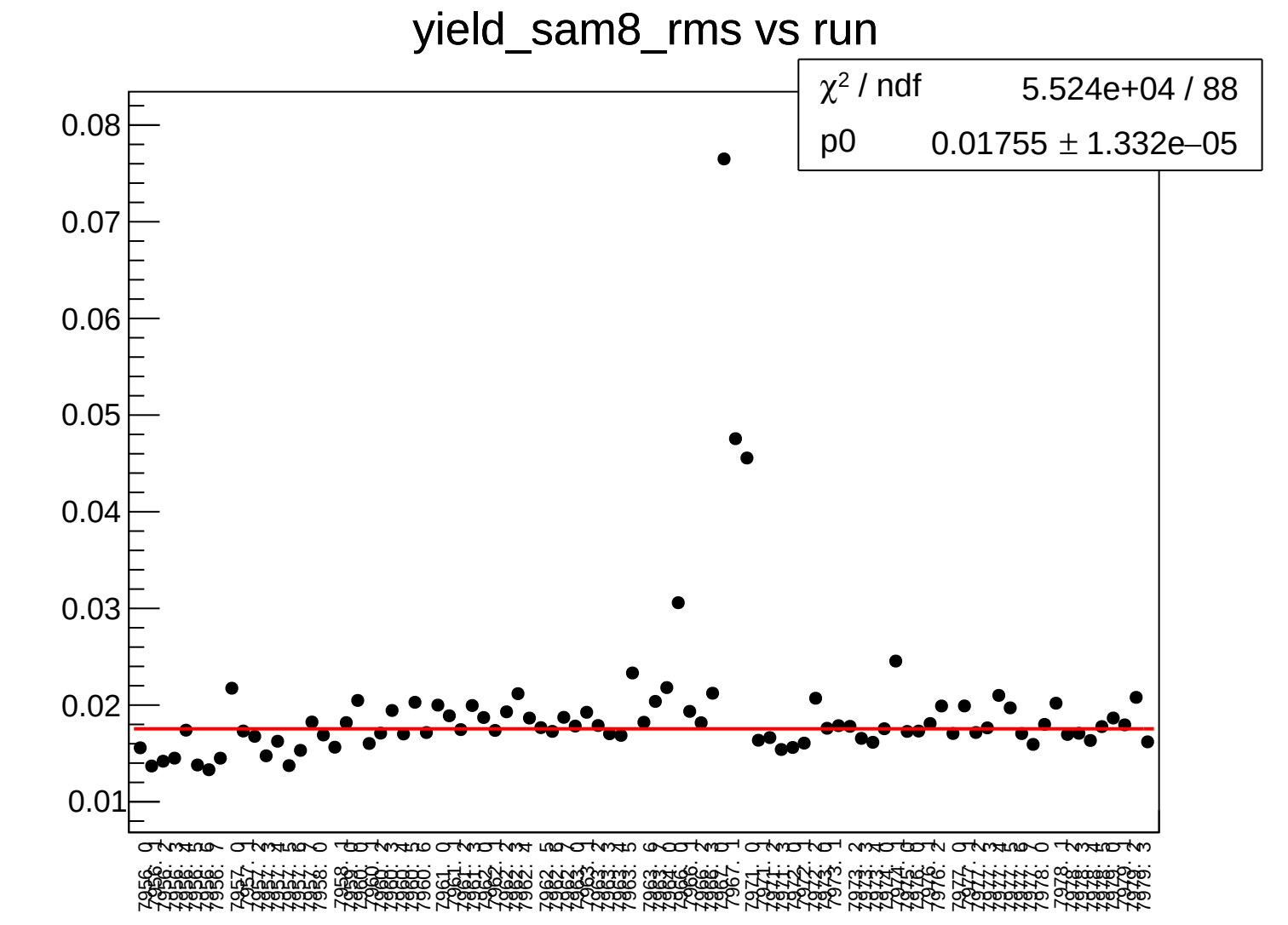

yield_sam7_mean vs run
χ² / ndf 1.542e+07 / 88
p0 2.396 ± 8.166e−06
2.4
2.35
2.3
2.25
2.2
pull
Entries 89
Mean 191.8
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

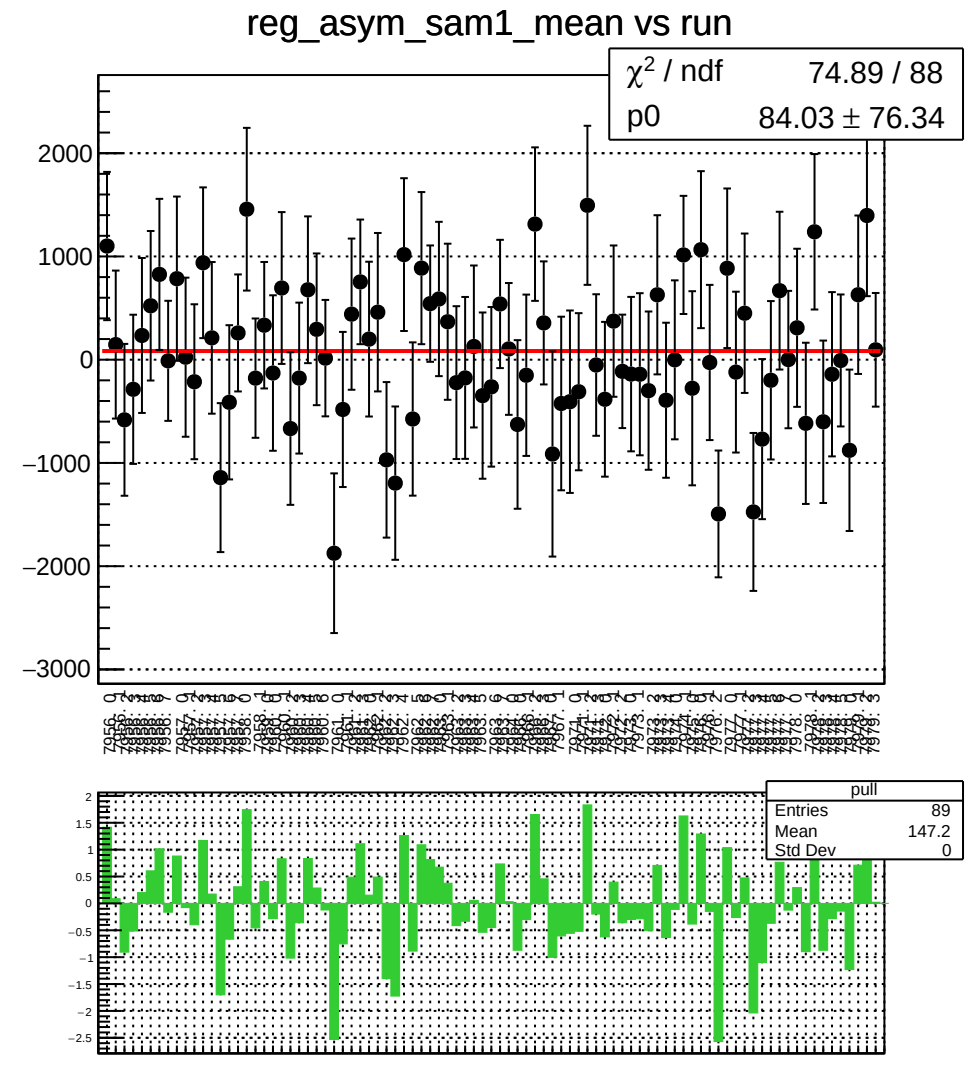

pull1D
Entries 89
Mean −5.952
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

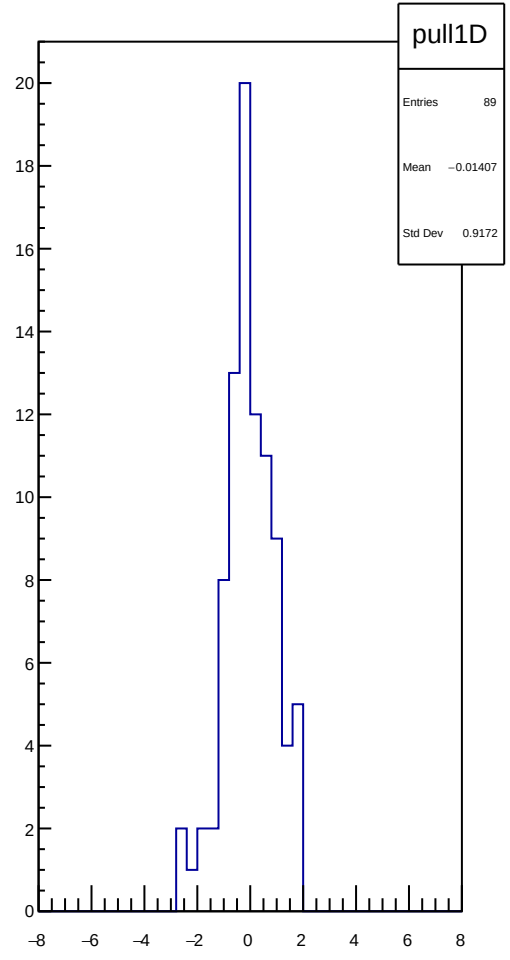

yield_sam7_rms vs run
$\chi^2$ / ndf 5.001e+04 / 88
p0 0.007618 ± 5.774e−06
0.03
0.025
0.02
0.015
0.01
0.005

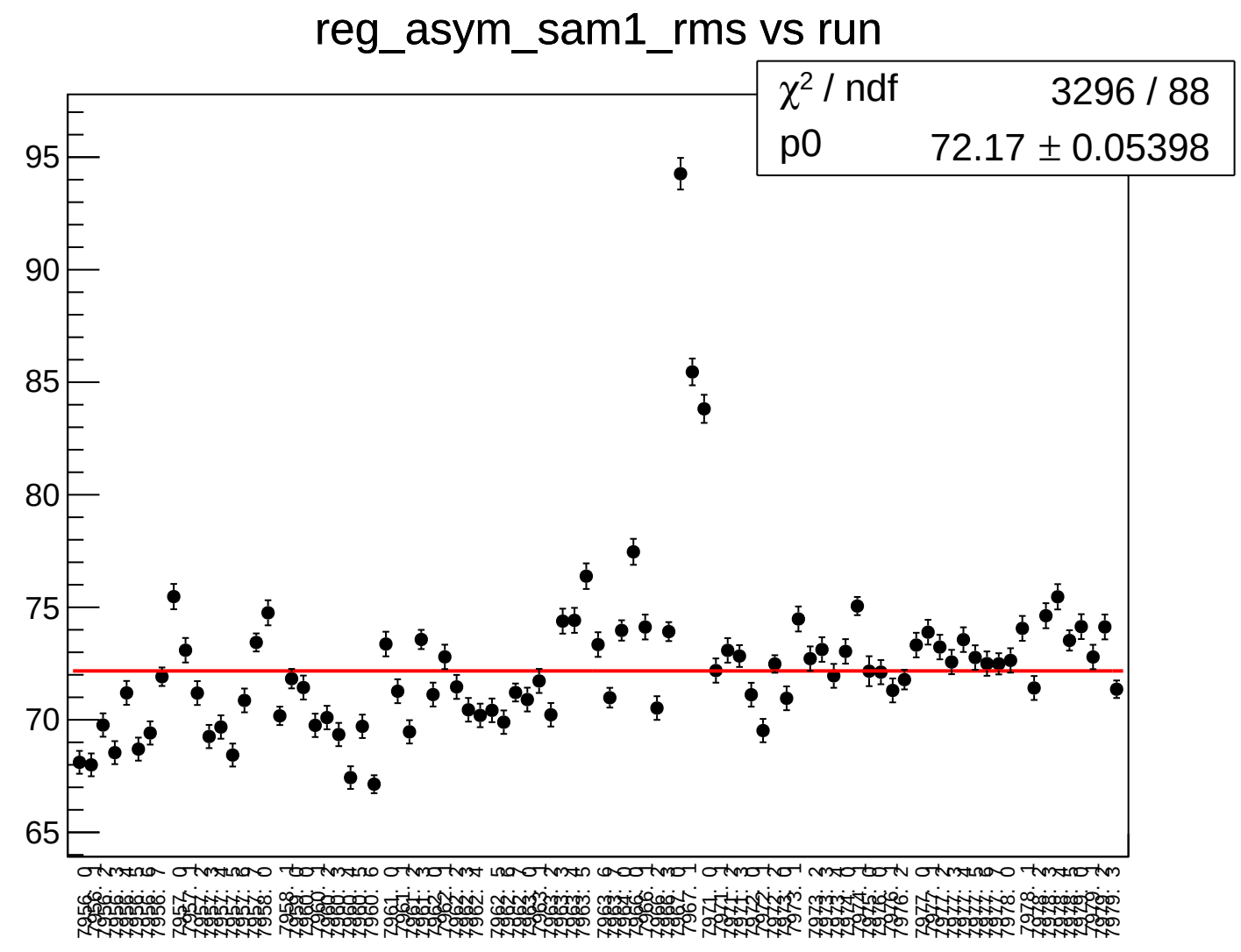

yield_sam8_mean vs run
χ² / ndf 3.227e+07 / 88
p0 9.031± 1.884e−05
9.1
9
8.9
8.8
8.7
8.6
8.5
8.4
pull
Entries 89
Mean 262.4
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

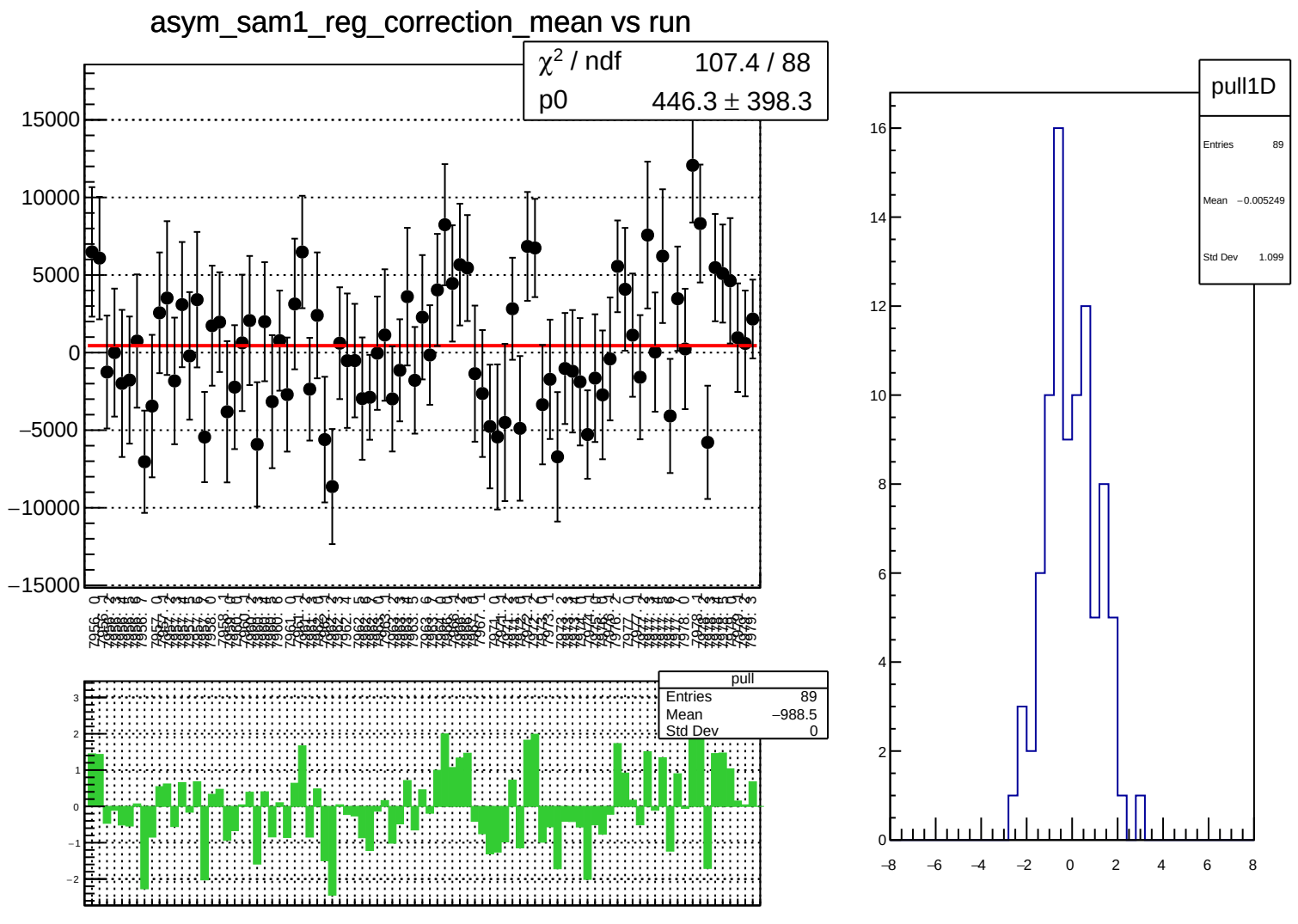

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

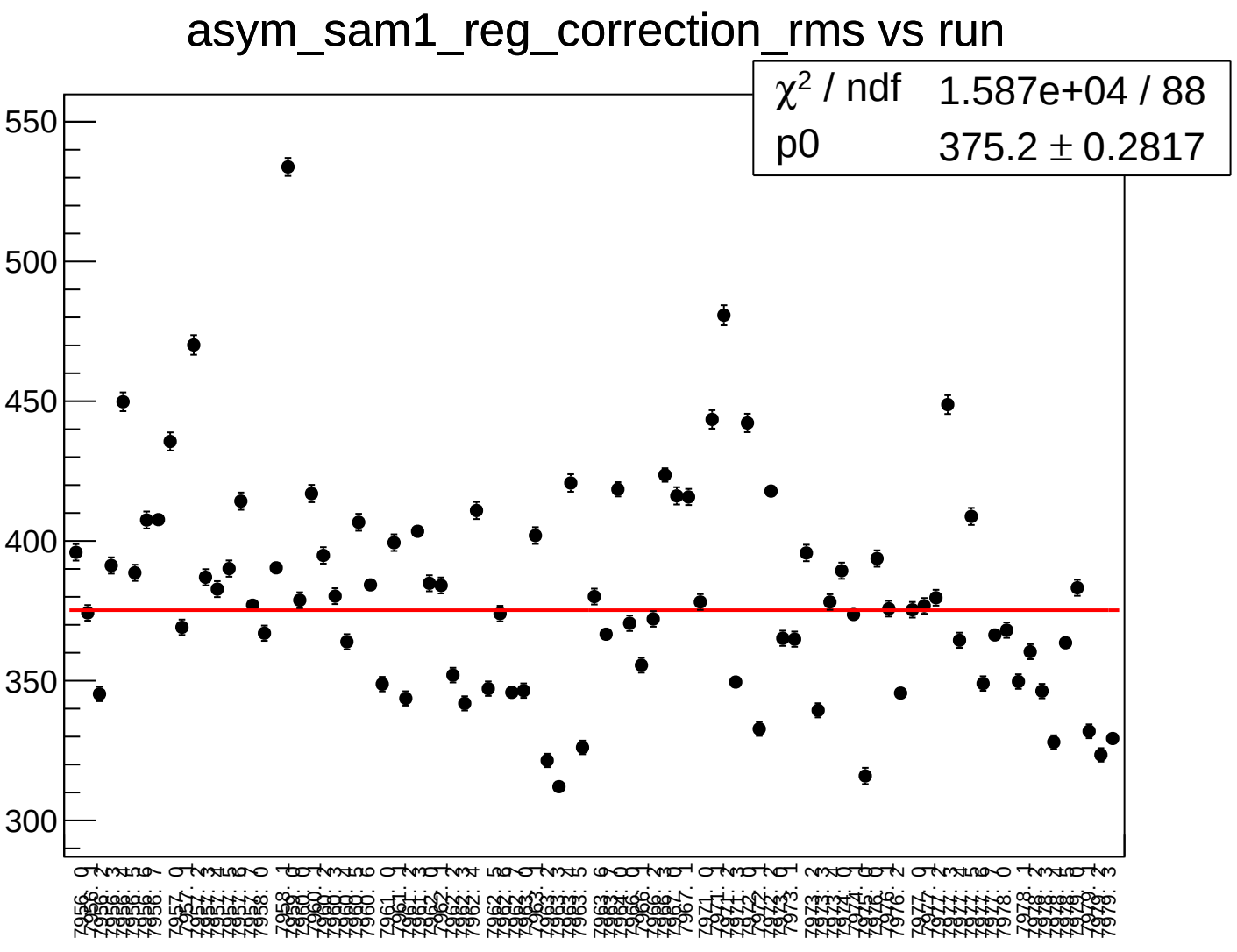

yield_sam8_rms vs run
χ² / ndf 5.524e+04 / 88
p0 0.01755 ± 1.332e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

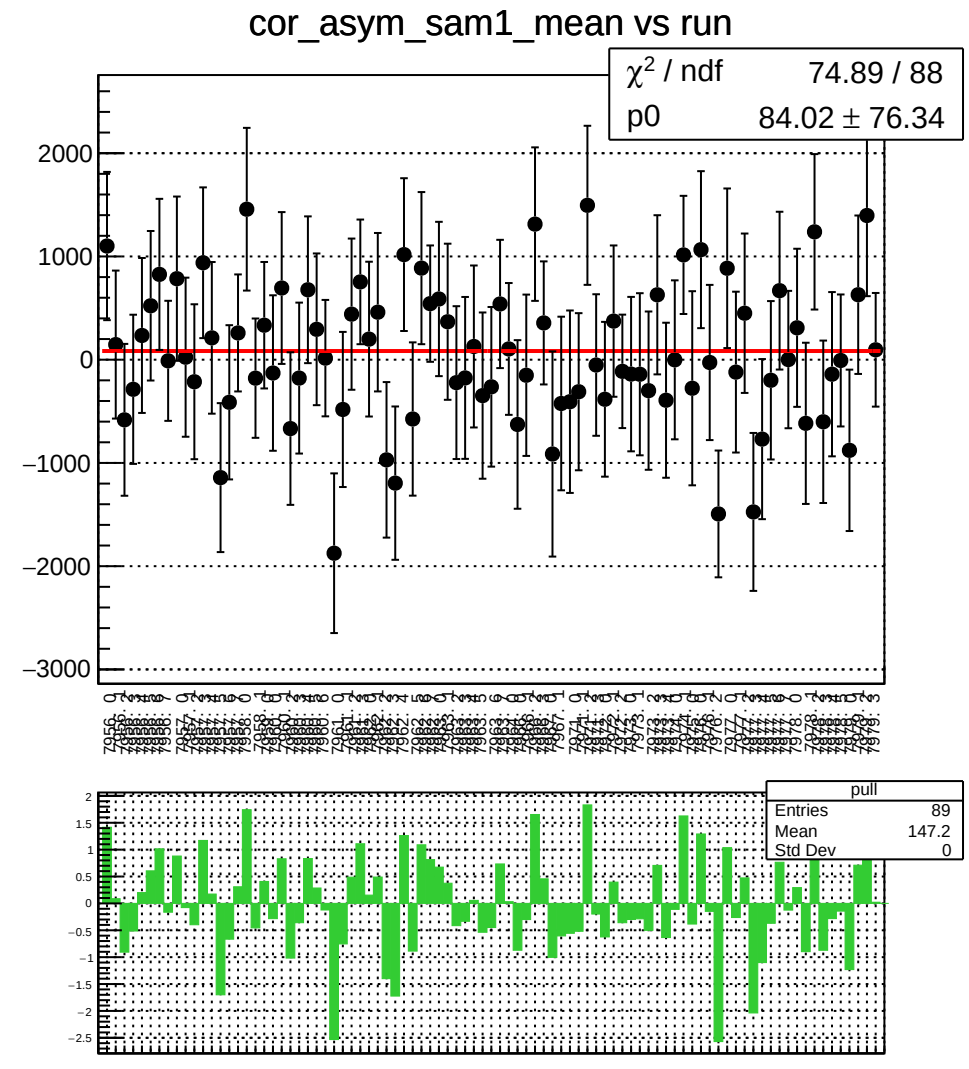

reg_asym_sam1_mean vs run
χ² / ndf 74.89 / 88
p0 84.03 ± 76.34
pull
Entries 89
Mean 147.2
Std Dev 0

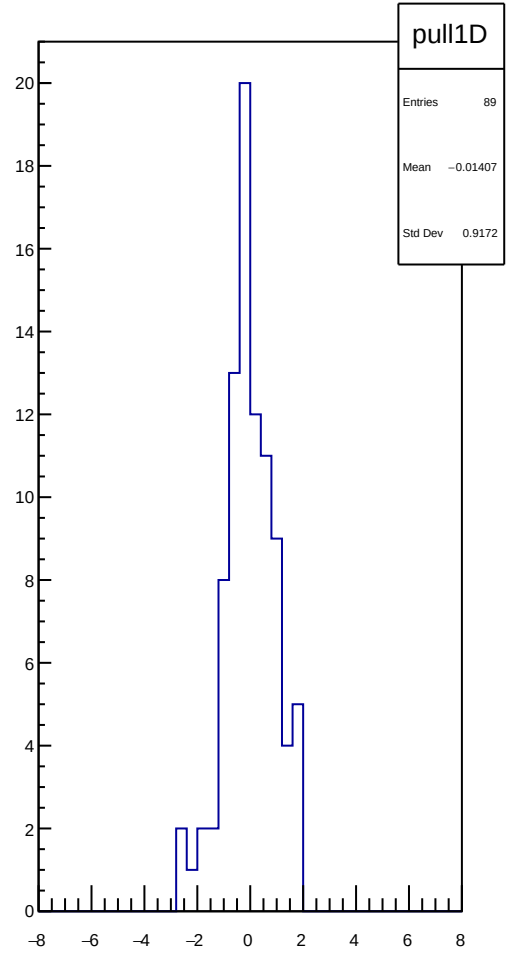

pull1D
Entries 89
Mean −0.01407
Std Dev 0.9172

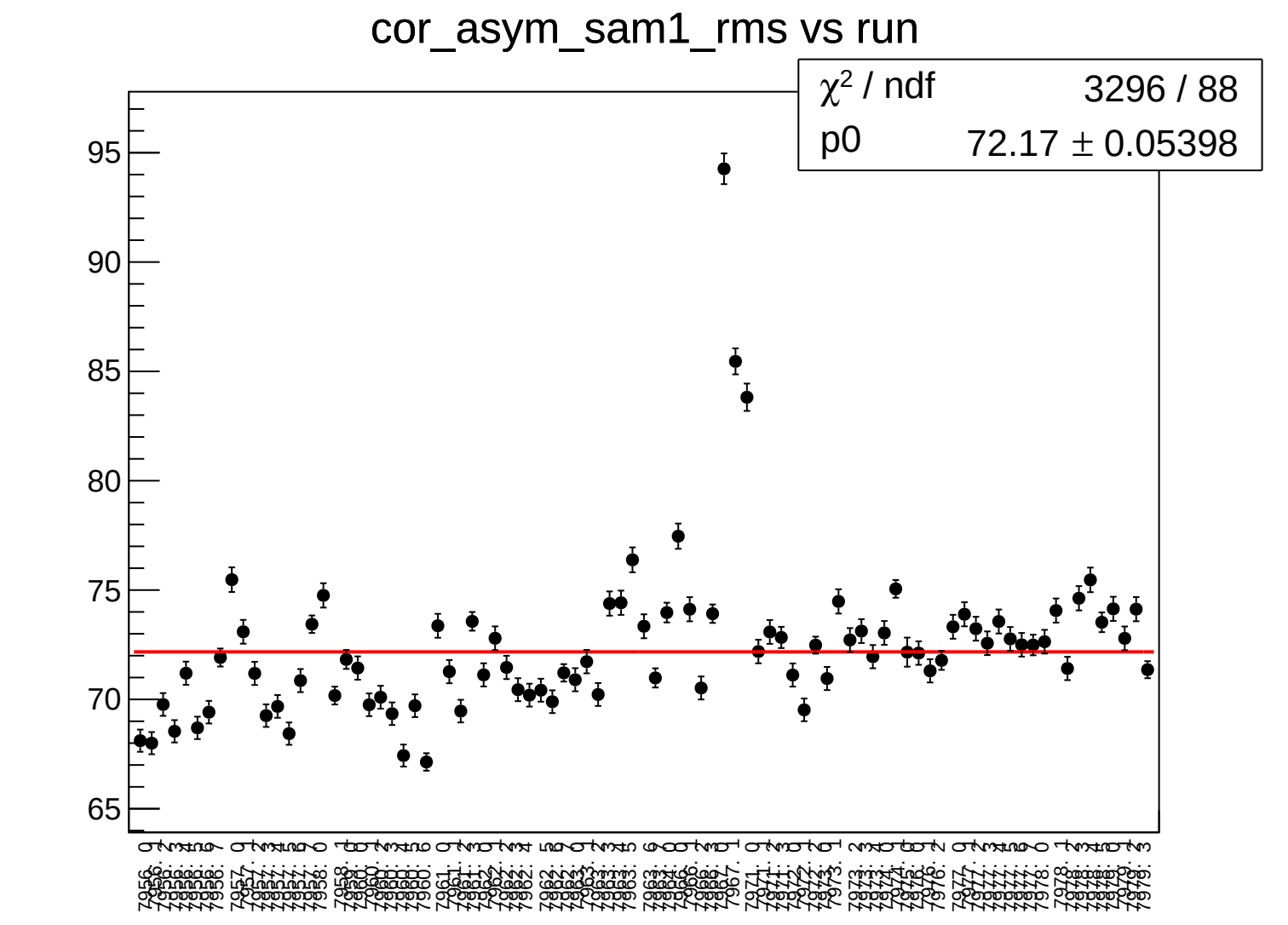

reg_asym_sam1_rms vs run
χ² / ndf 3296 / 88
p0 72.17 ± 0.05398
95
90
85
80
75
70
65

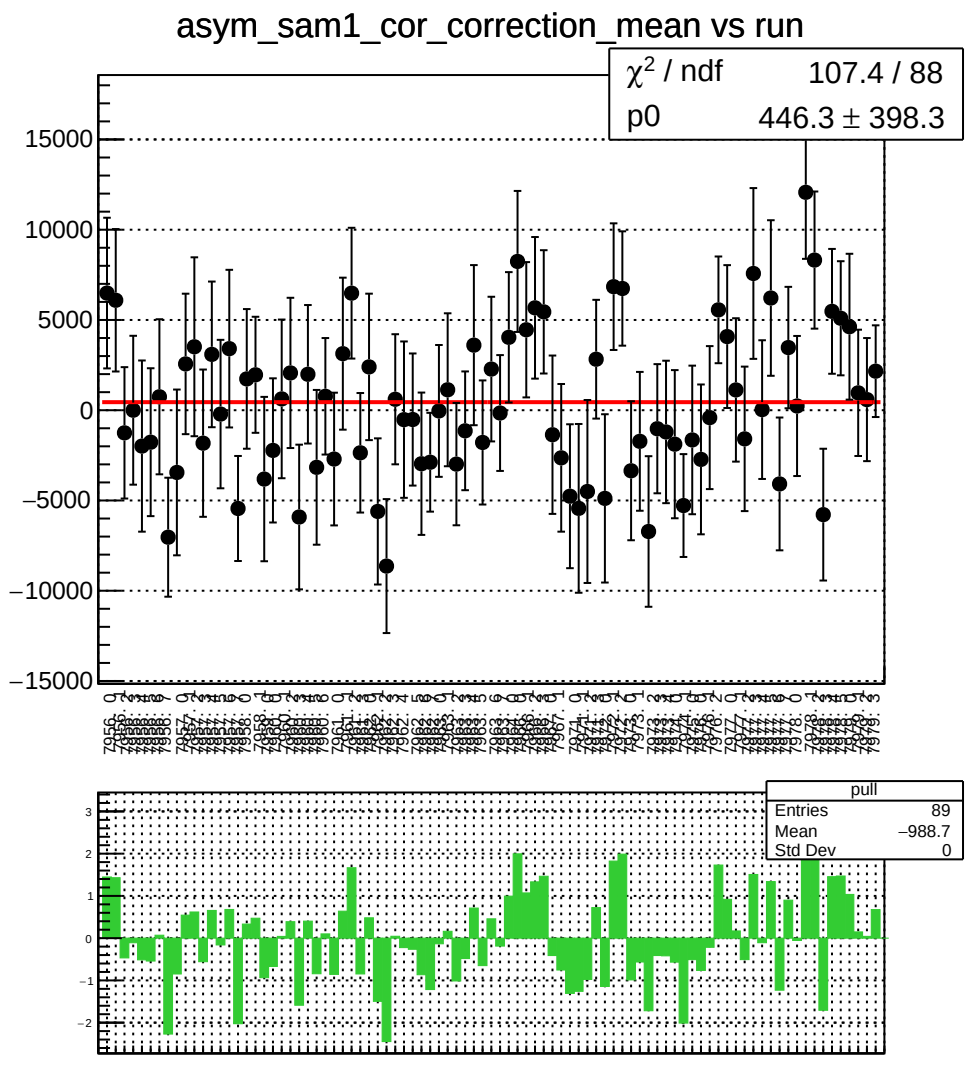

asym_sam1_reg_correction_mean vs run
χ² / ndf 107.4 / 88
p0 446.3 ± 398.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −988.5
Std Dev 0
pull1D
Entries 89
Mean −0.005249
Std Dev 1.099

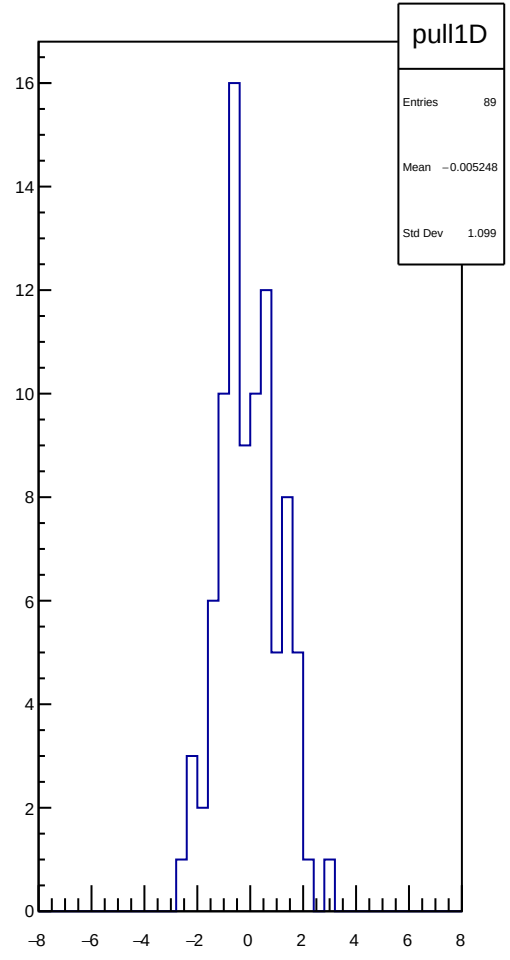

asym_sam1_reg_correction_rms vs run
χ² / ndf 1.587e+04 / 88
p0 375.2 ± 0.2817
550
500
450
400
350
300

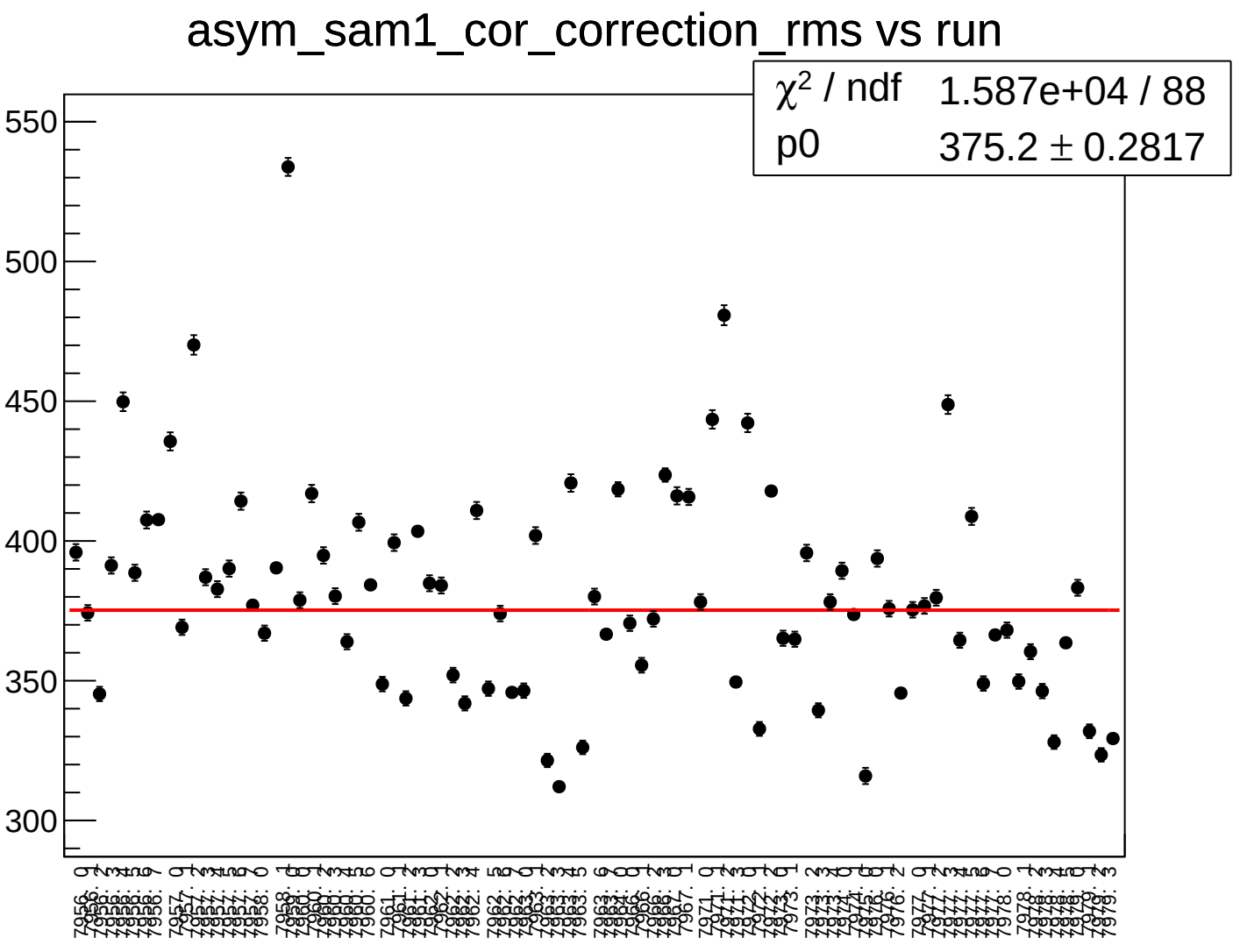

cor_asym_sam1_mean vs run
$\chi^2$ / ndf 74.89 / 88
p0 84.02 ± 76.34
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 147.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

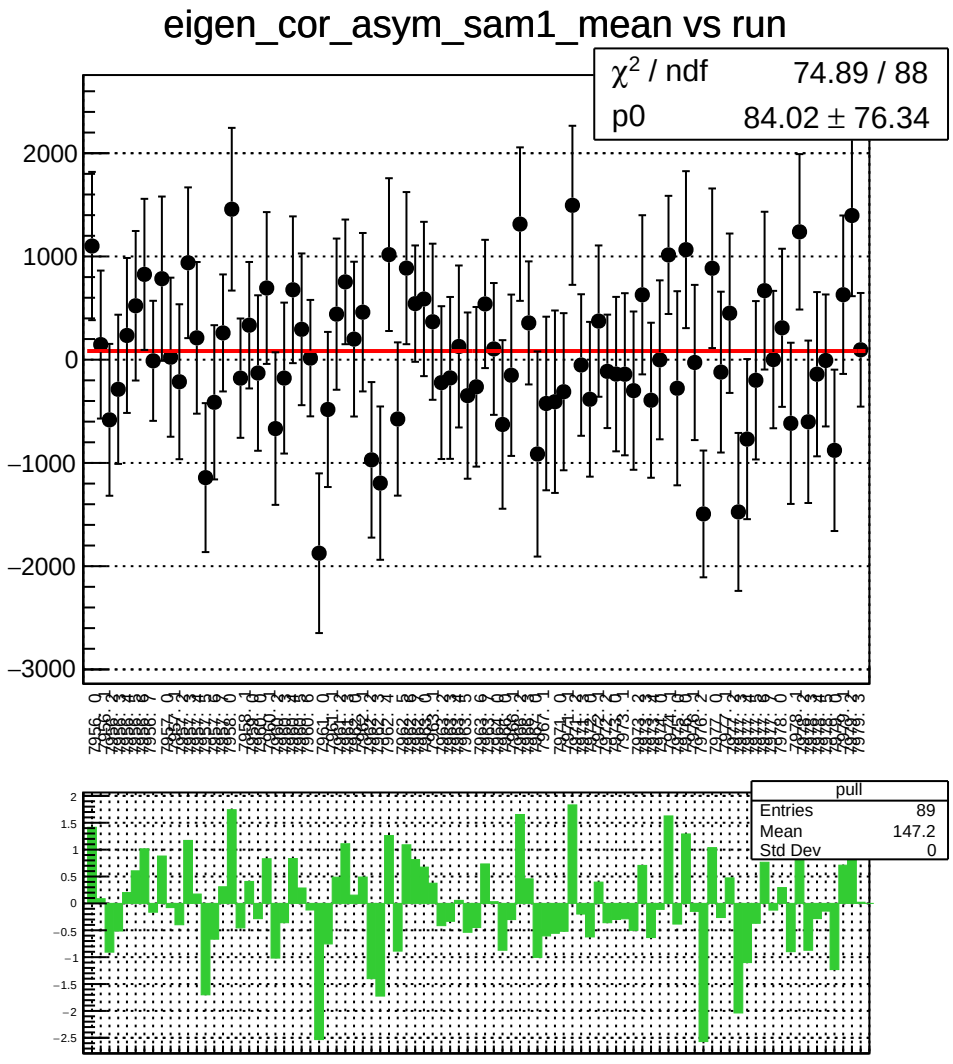

pull1D
Entries 89
Mean −0.01407
Std Dev 0.9172
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

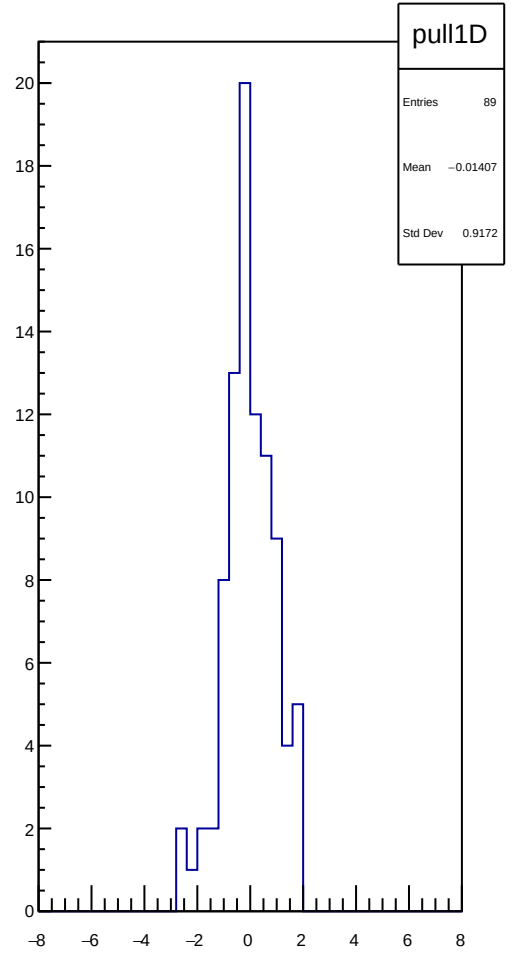

cor_asym_sam1_rms vs run
χ² / ndf 3296 / 88
p0 72.17 ± 0.05398
95
90
85
80
75
70
65

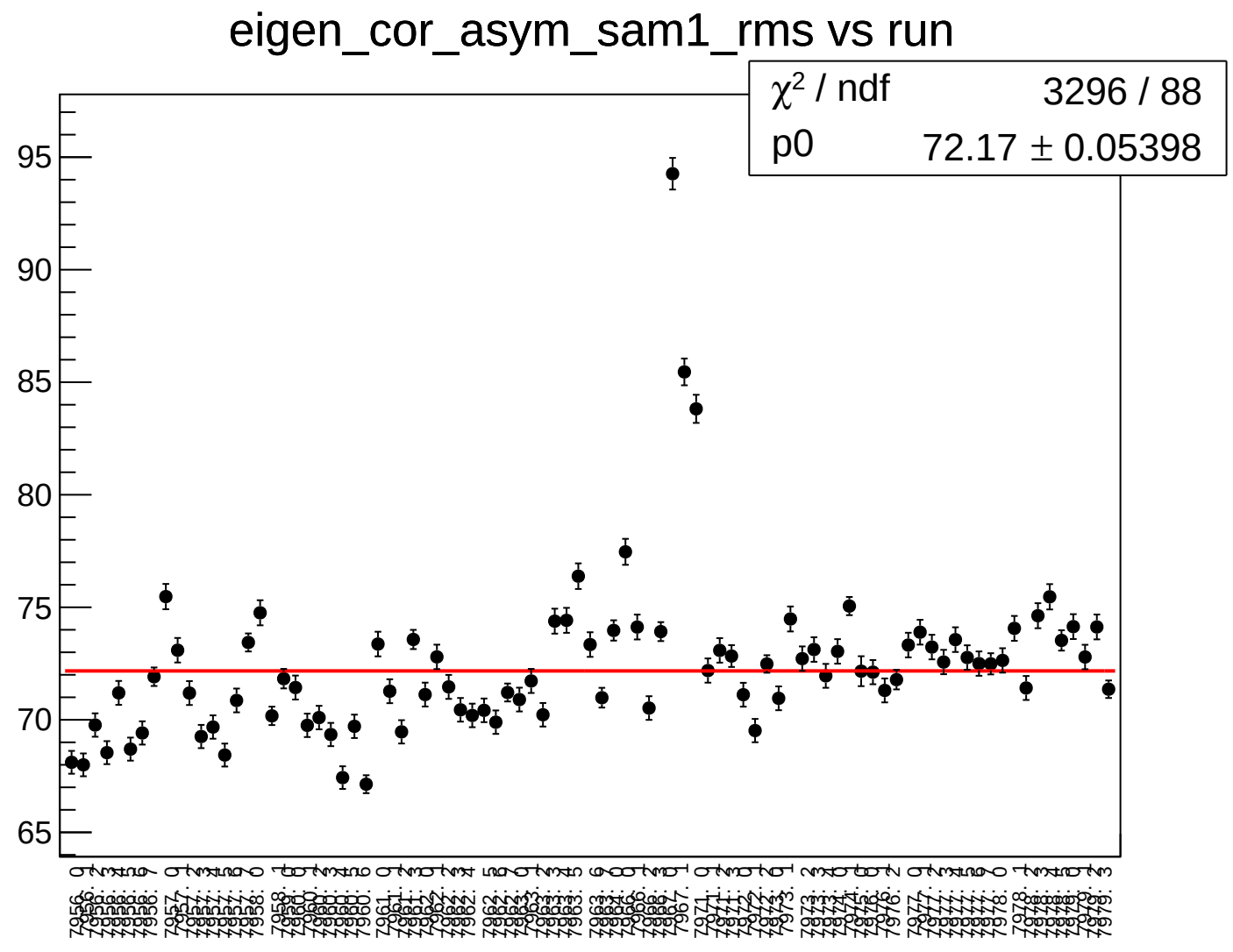

asym_sam1_cor_correction_mean vs run
χ² / ndf 107.4 / 88
p0 446.3 ± 398.3
pull
Entries 89
Mean −988.7
Std Dev 0

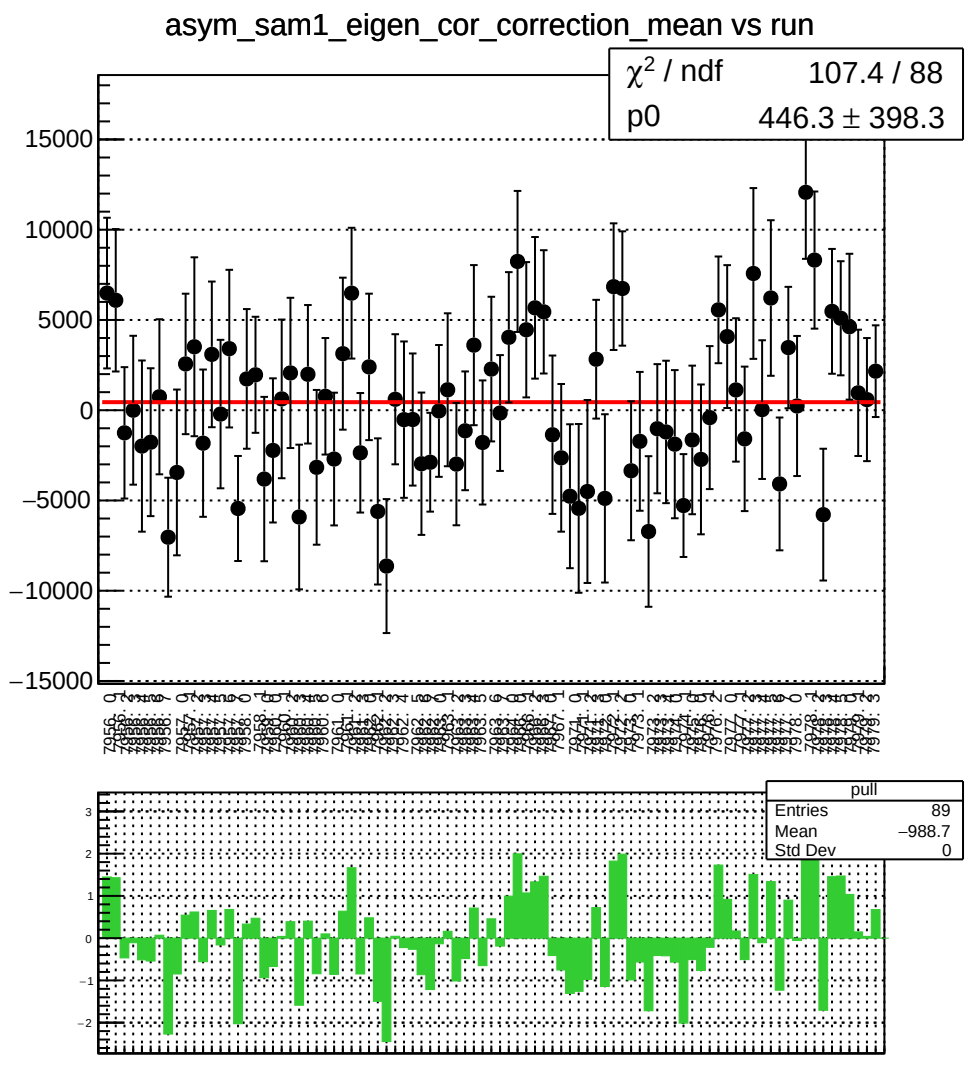

pull1D
Entries 89
Mean −0.005248
Std Dev 1.099

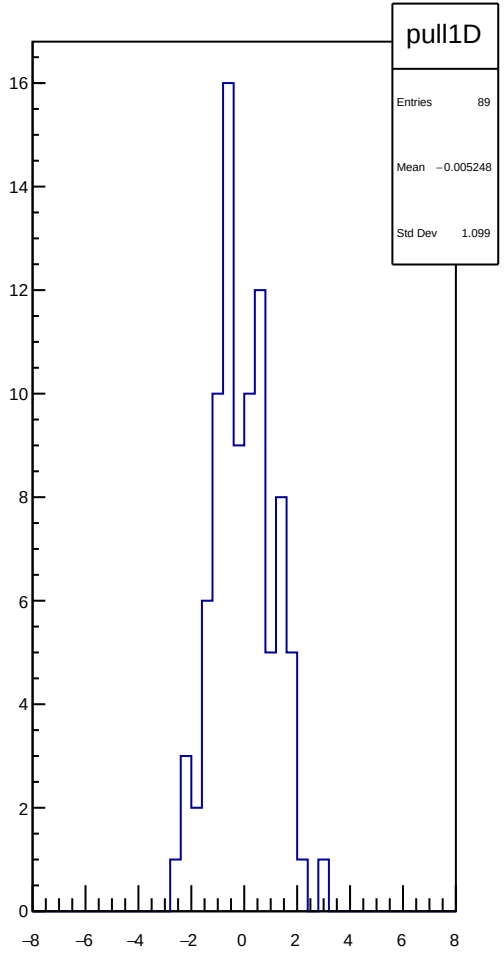

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.587e+04 / 88
p0 375.2 ± 0.2817
550
500
450
400
350
300

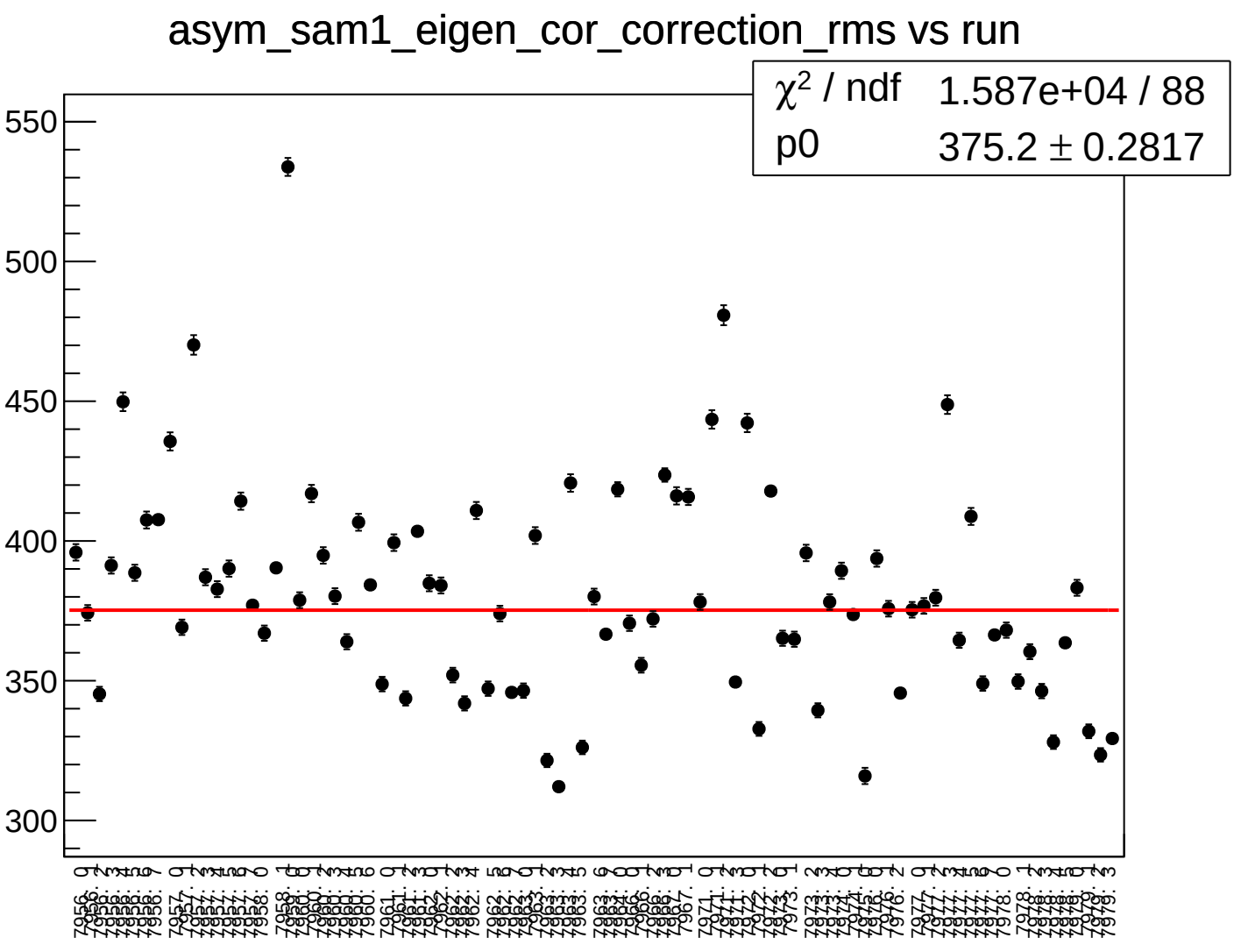

eigen_cor_asym_sam1_mean vs run
χ² / ndf 74.89 / 88
p0 84.02 ± 76.34
pull
Entries 89
Mean 147.2
Std Dev 0

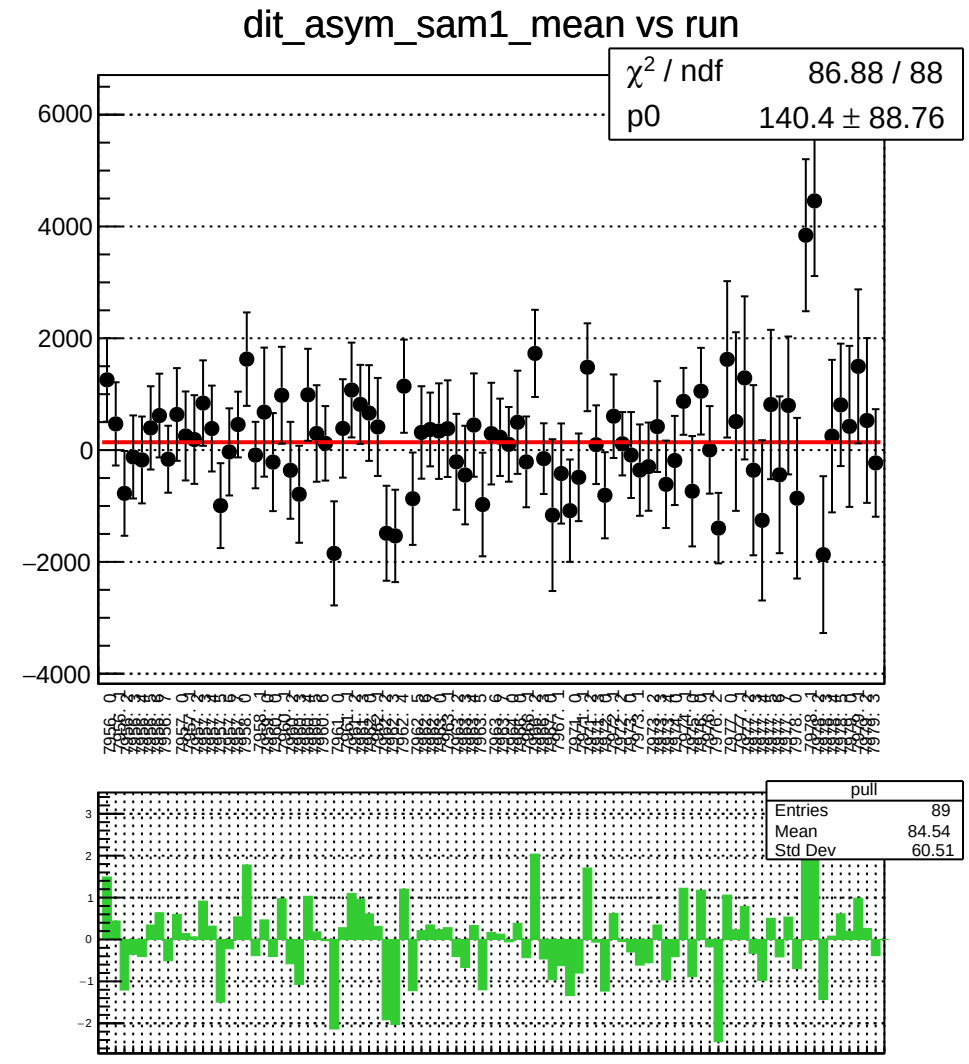

pull1D
Entries 89
Mean −0.01407
Std Dev 0.9172

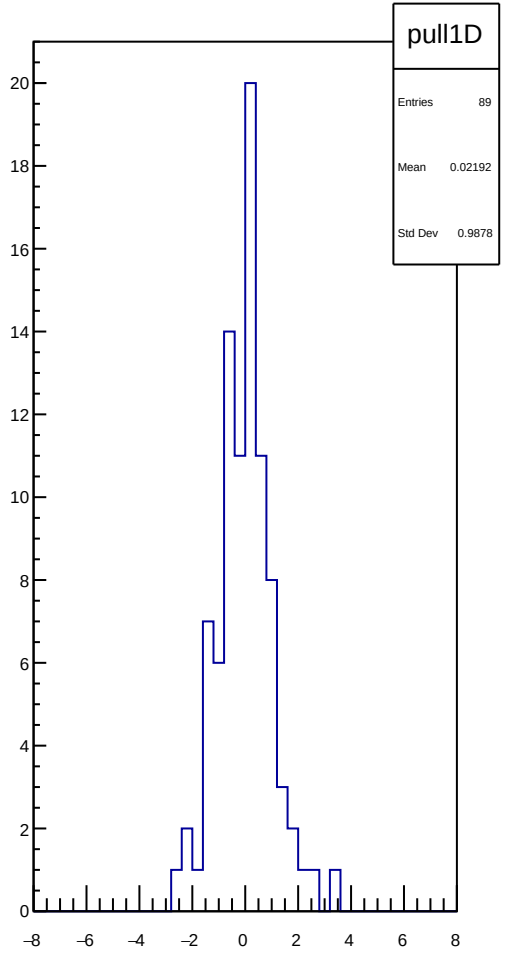

eigen_cor_asym_sam1_rms vs run
χ² / ndf 3296 / 88
p0 72.17 ± 0.05398
95
90
85
80
75
70
65

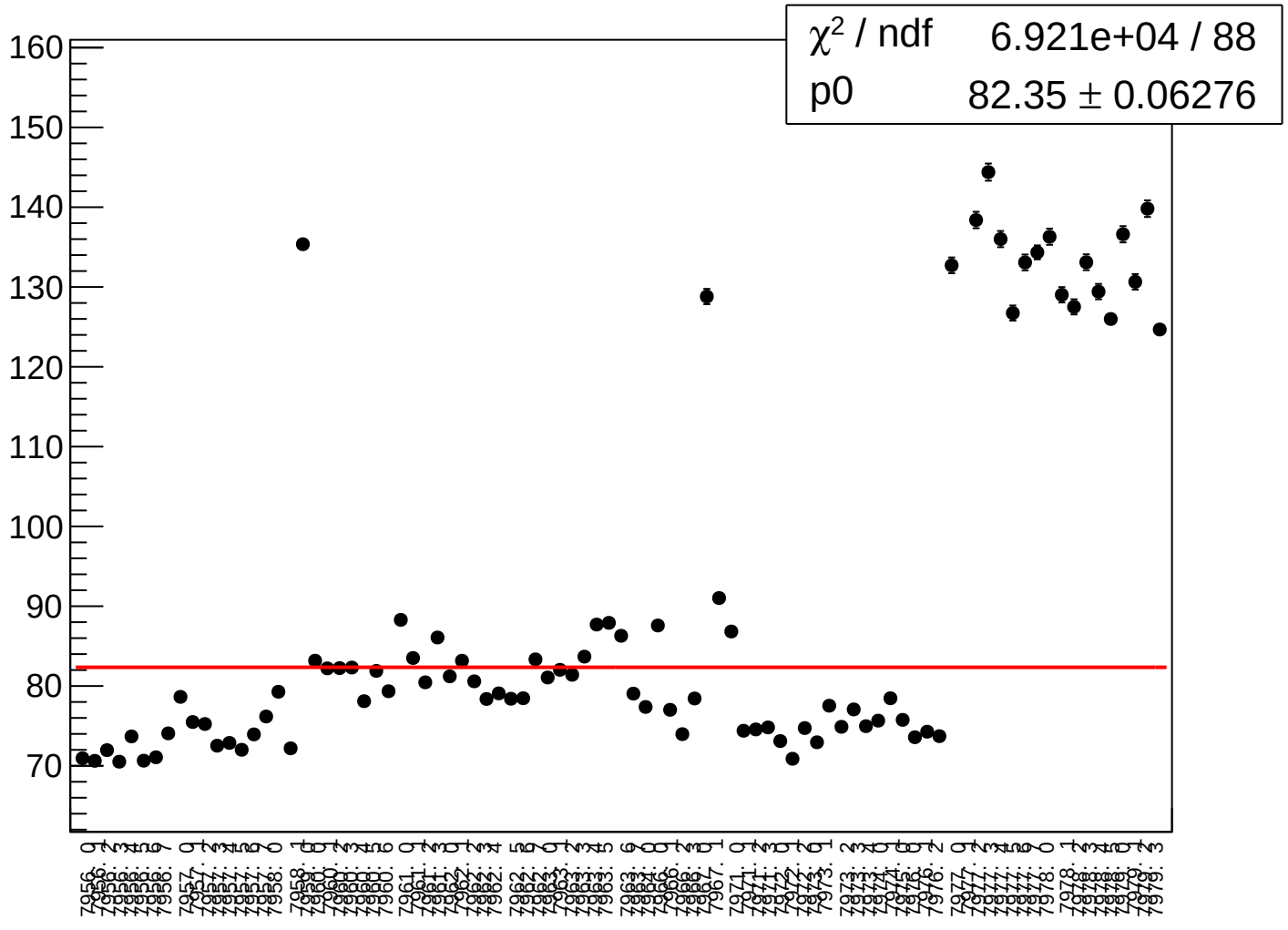

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 107.4 / 88
p0 446.3 ± 398.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −988.7
Std Dev 0
3
2
1
0
−1
−2

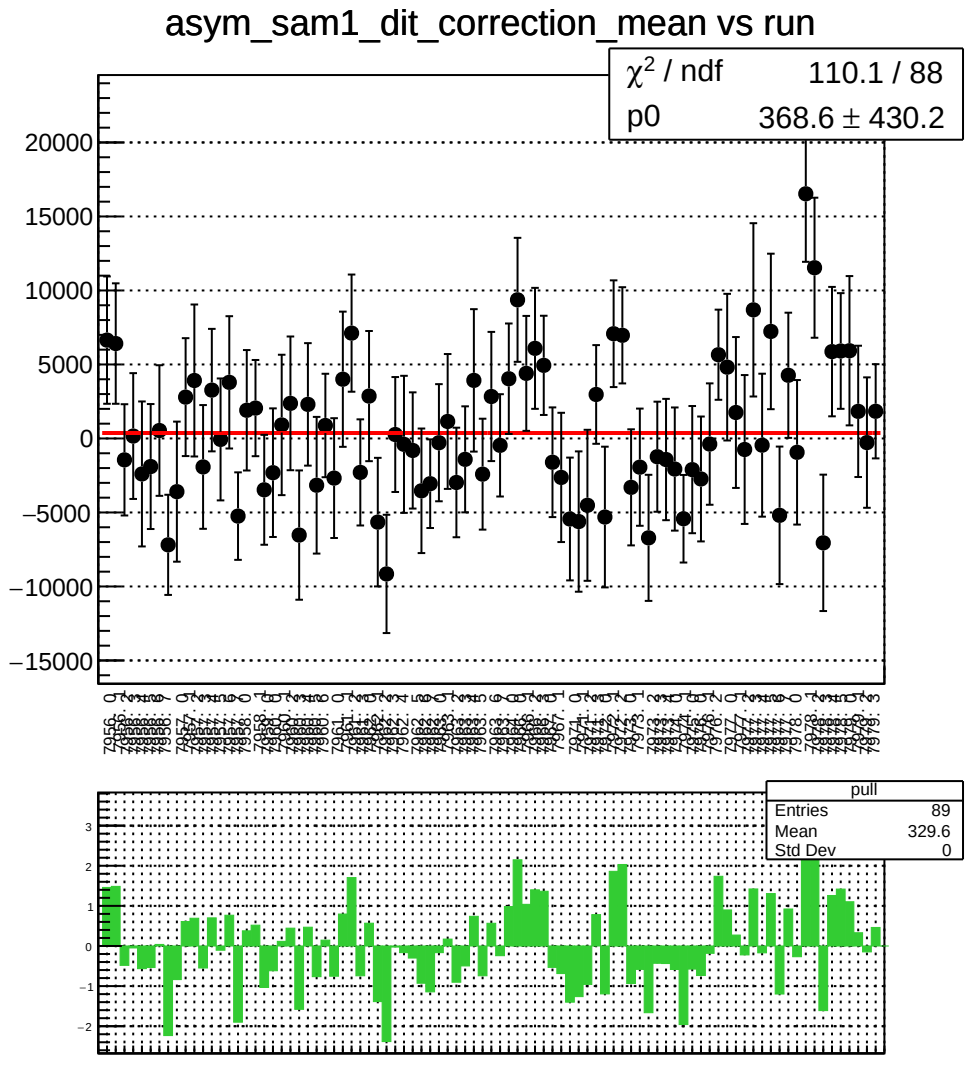

pull1D
Entries 89
Mean −0.005248
Std Dev 1.099
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

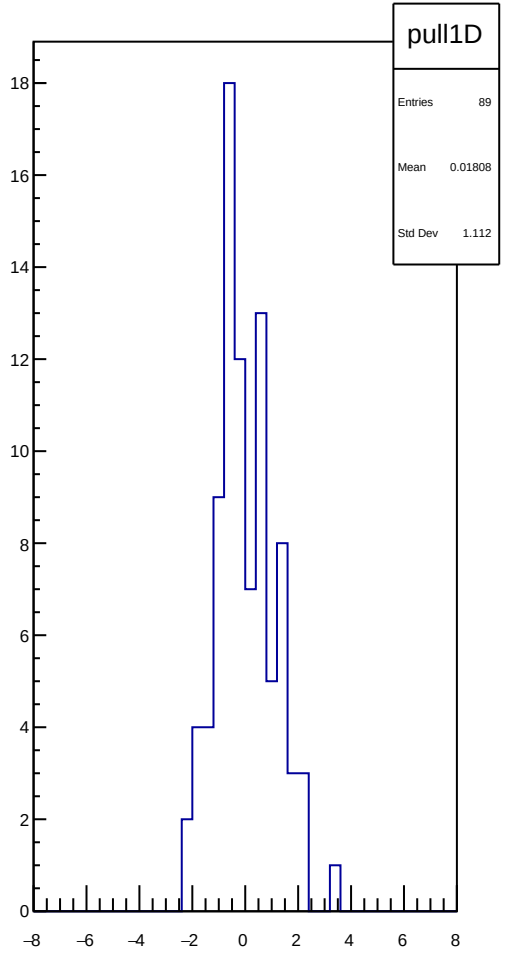

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1.587e+04 / 88
p0 375.2 ± 0.2817
550
500
450
400
350
300

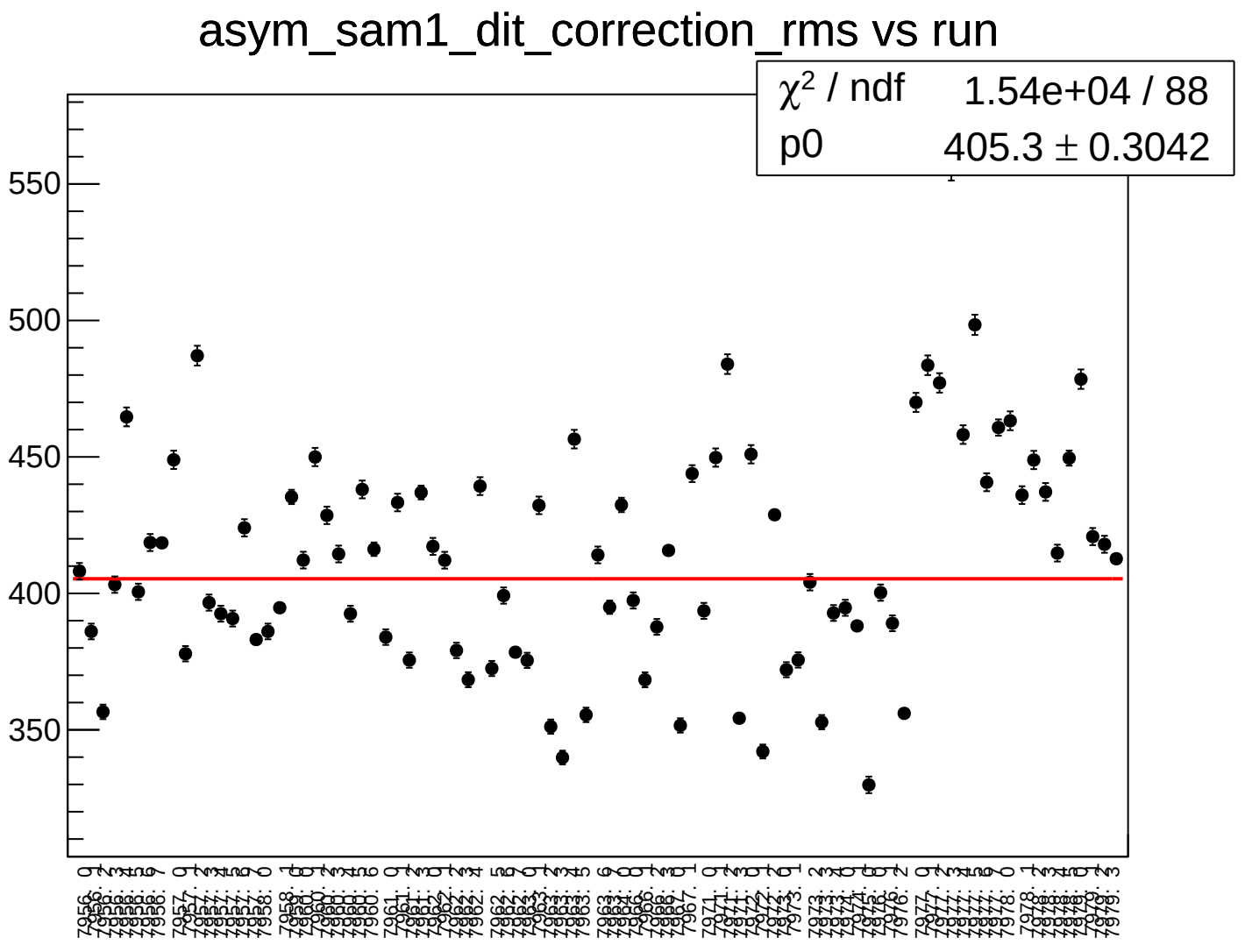

dit_asym_sam1_mean vs run
χ² / ndf 86.88 / 88
p0 140.4 ± 88.76
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 84.54
Std Dev 60.51
3
2
1
0
−1
−2

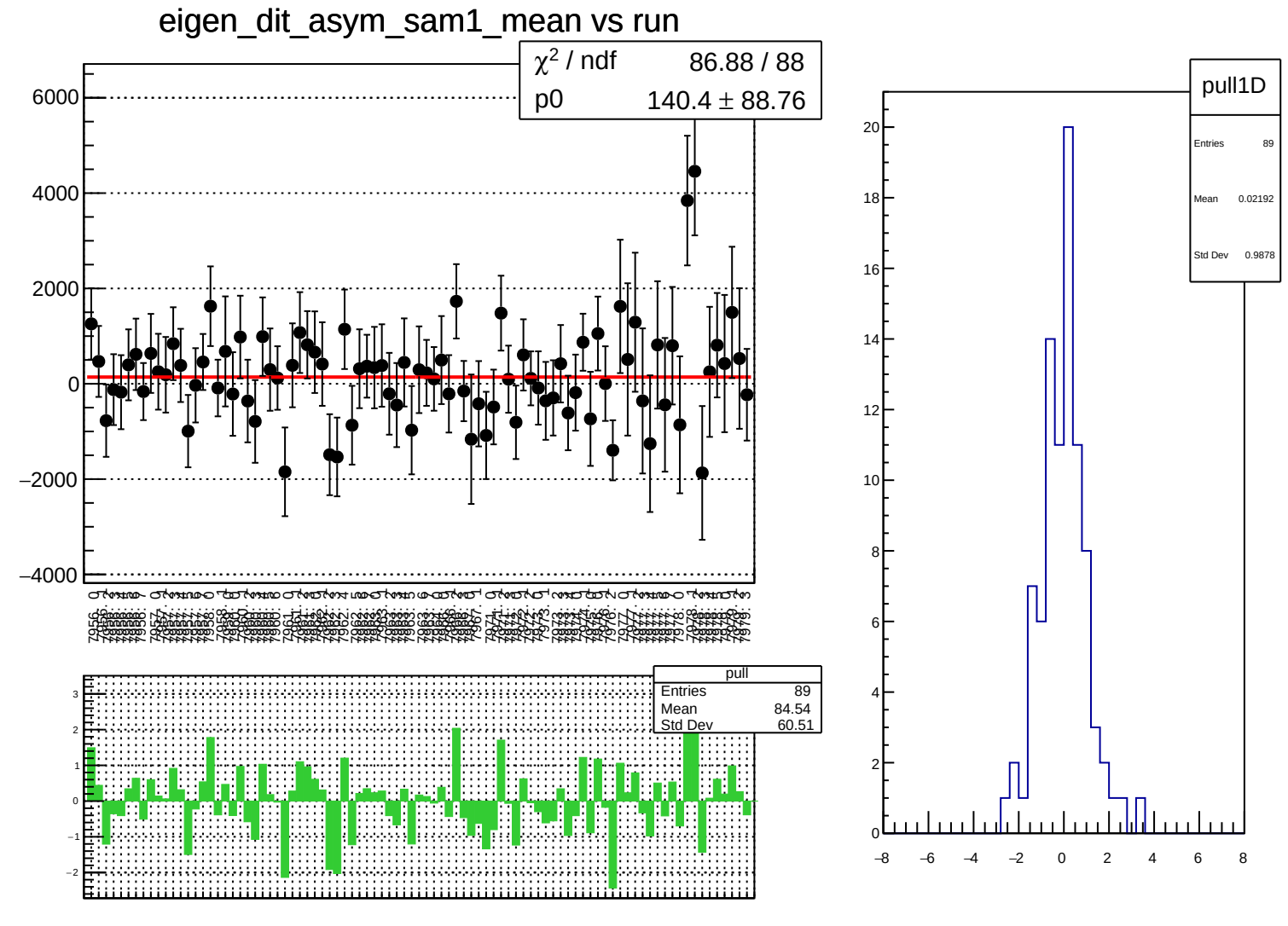

pull1D
Entries 89
Mean 0.02192
Std Dev 0.9878
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

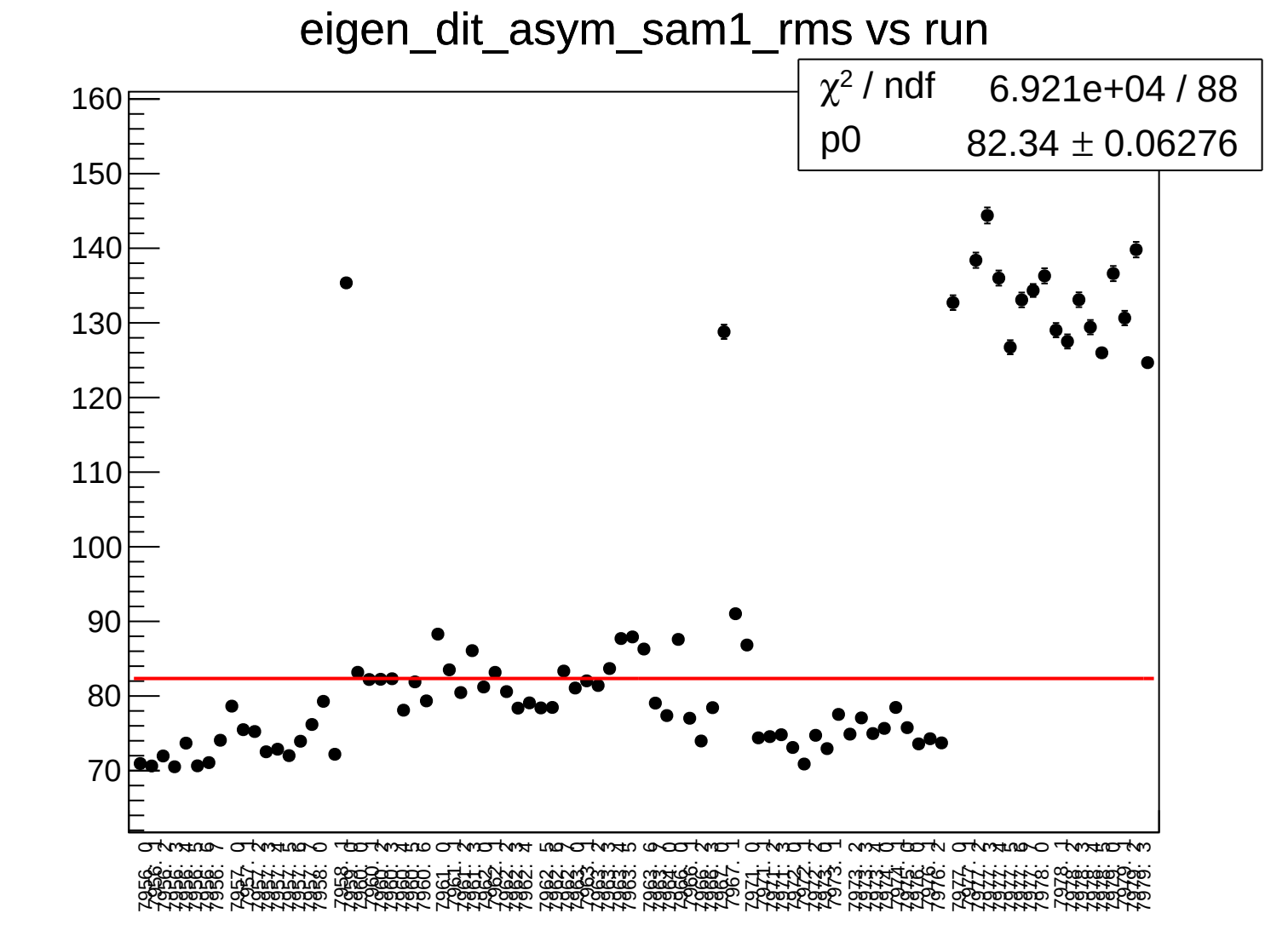

dit_asym_sam1_rms vs run
$\chi^2$ / ndf 6.921e+04 / 88
p0 82.35 ± 0.06276
160
150
140
130
120
110
100
90
80
70

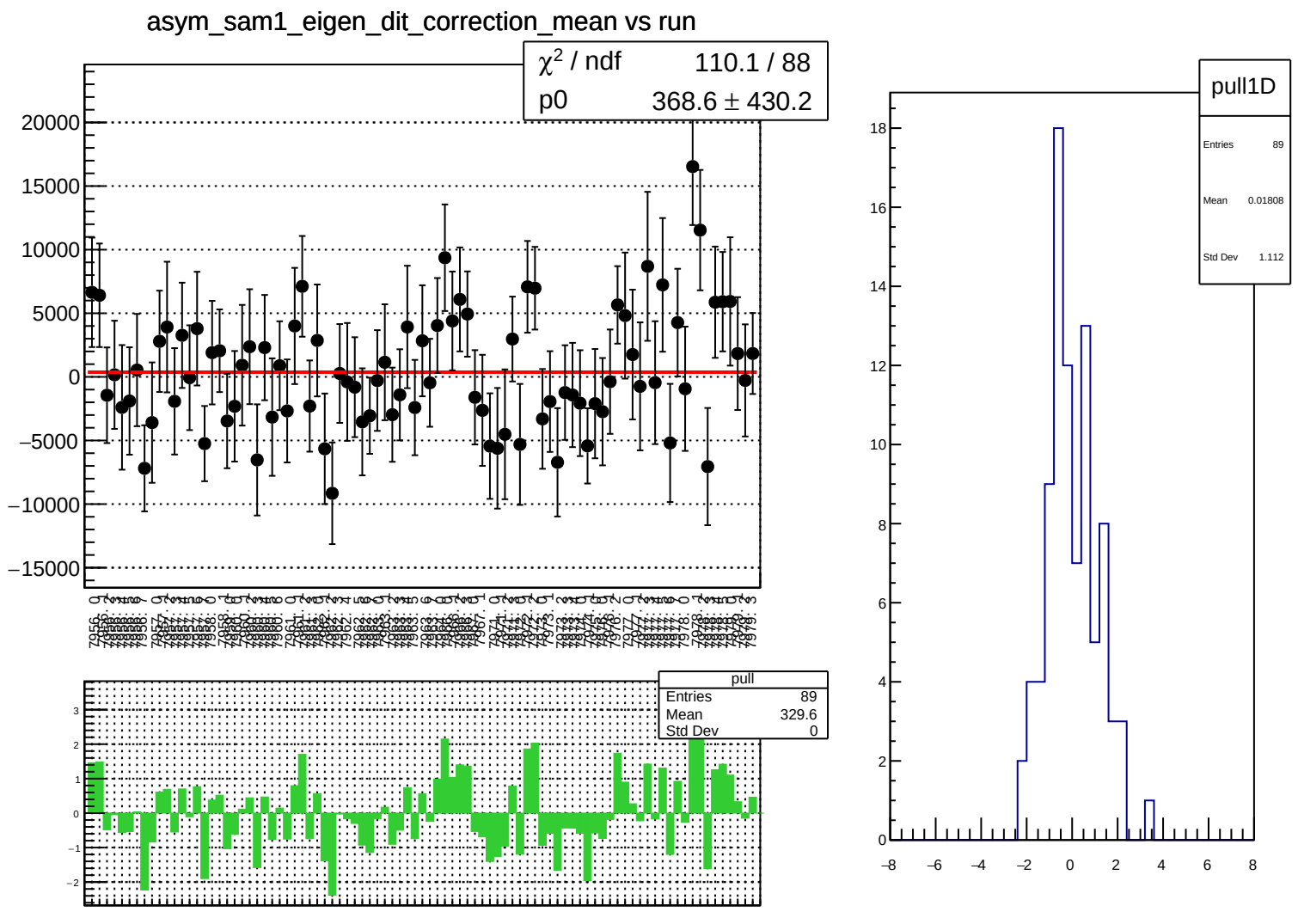

asym_sam1_dit_correction_mean vs run
χ² / ndf 110.1 / 88
p0 368.6 ± 430.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 329.6
Std Dev 0
3
2
1
0
−1
−2

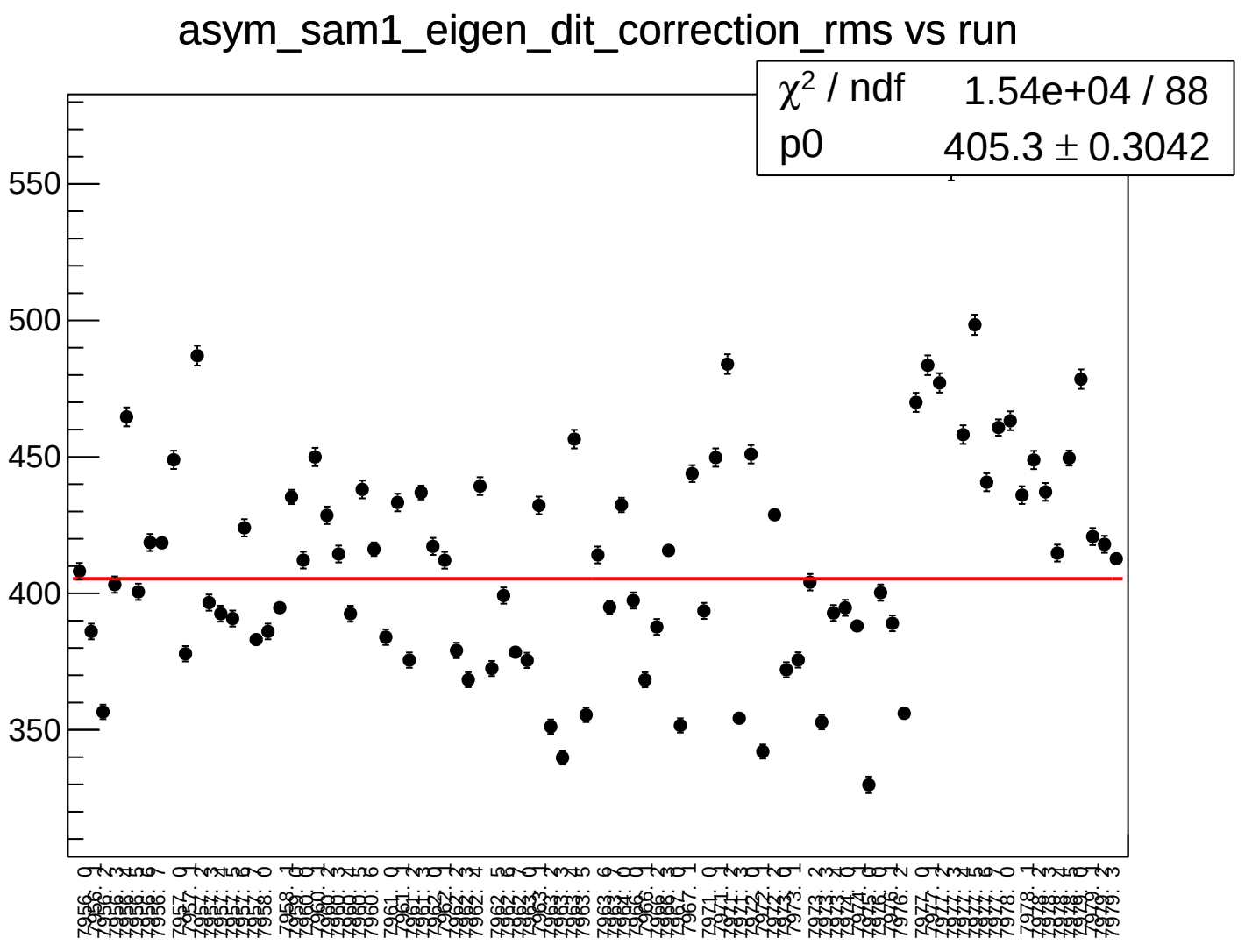

pull1D
Entries 89
Mean 0.01808
Std Dev 1.112
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

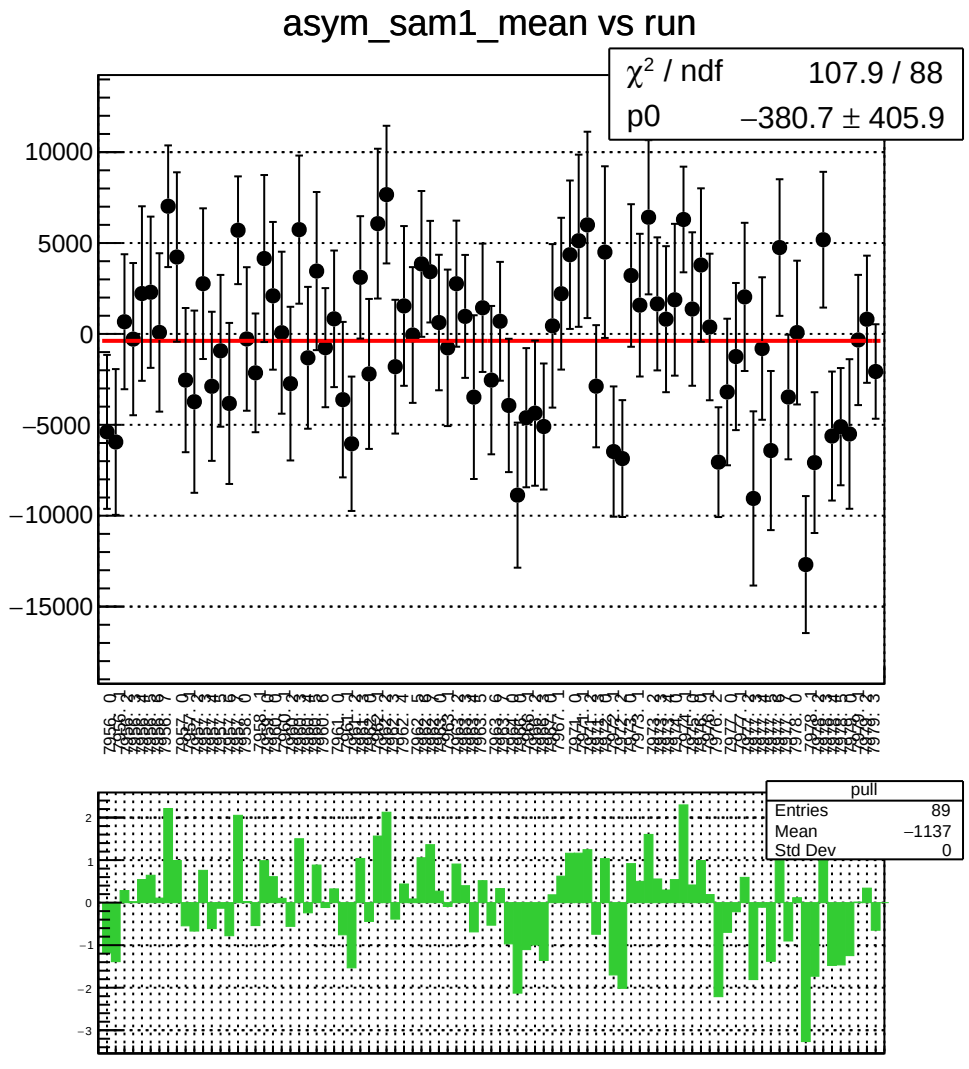

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.54e+04 / 88
p0 405.3 ± 0.3042
550
500
450
400
350

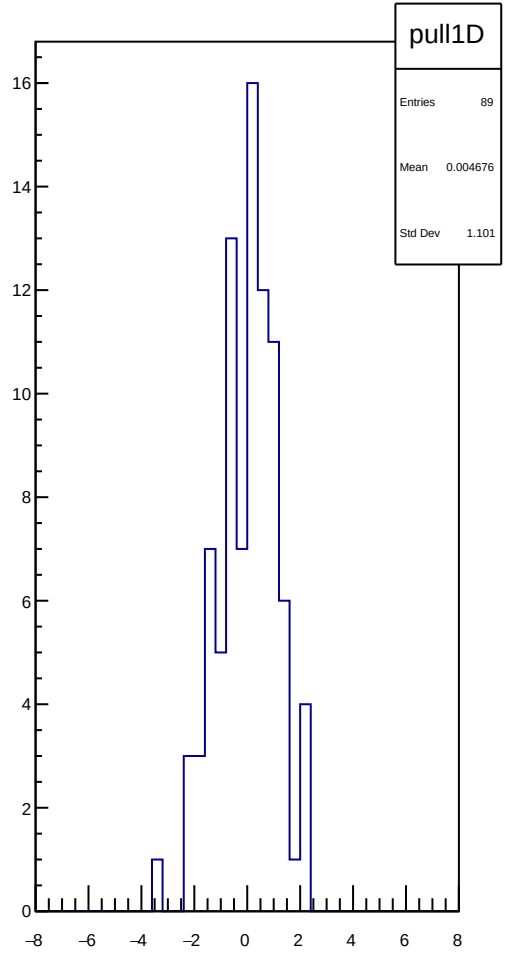

eigen_dit_asym_sam1_mean vs run
χ² / ndf 86.88 / 88
p0 140.4 ± 88.76
pull
Entries 89
Mean 84.54
Std Dev 60.51
pull1D
Entries 89
Mean 0.02192
Std Dev 0.9878

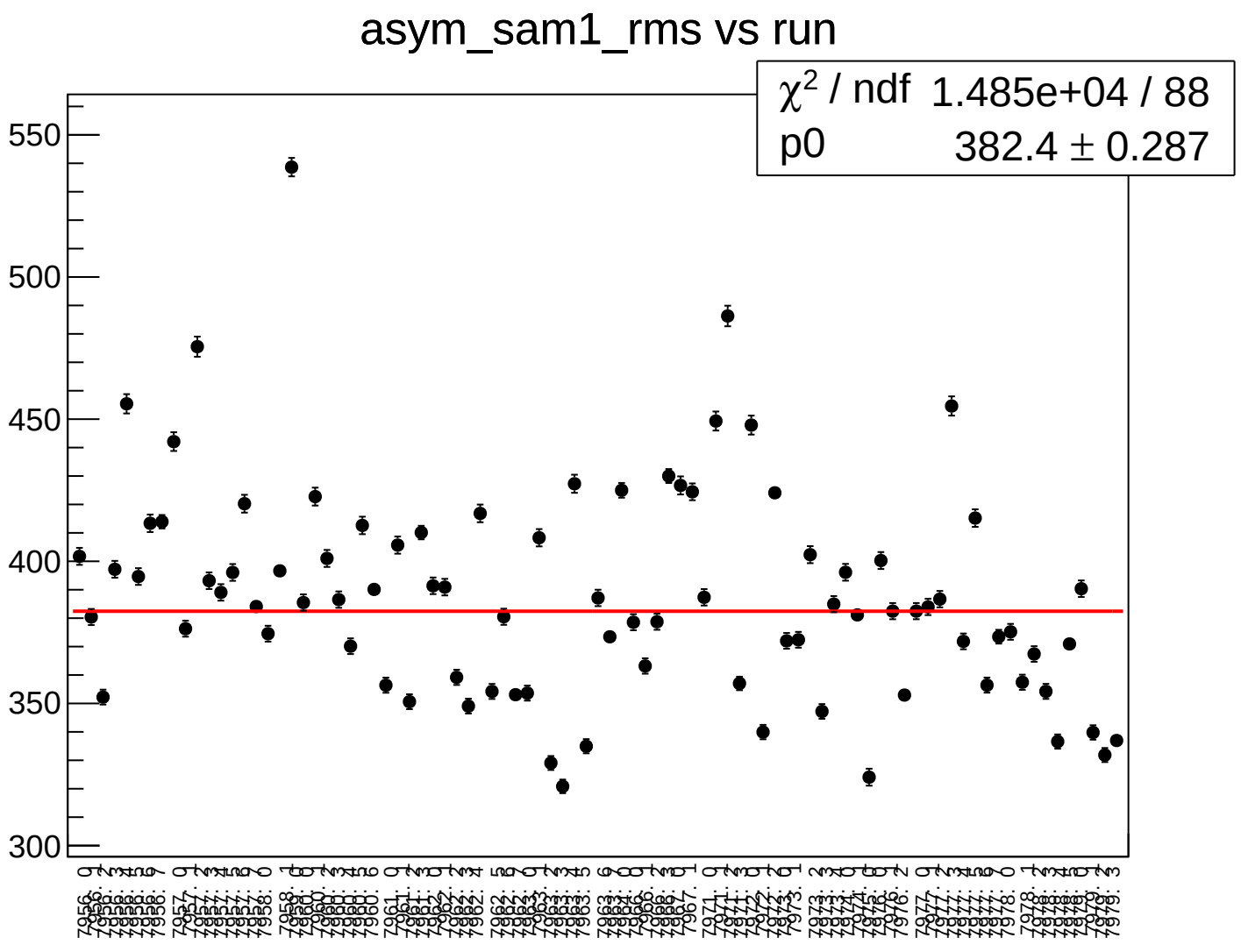

eigen_dit_asym_sam1_rms vs run
χ² / ndf 6.921e+04 / 88
p0 82.34 ± 0.06276
160
150
140
130
120
110
100
90
80
70

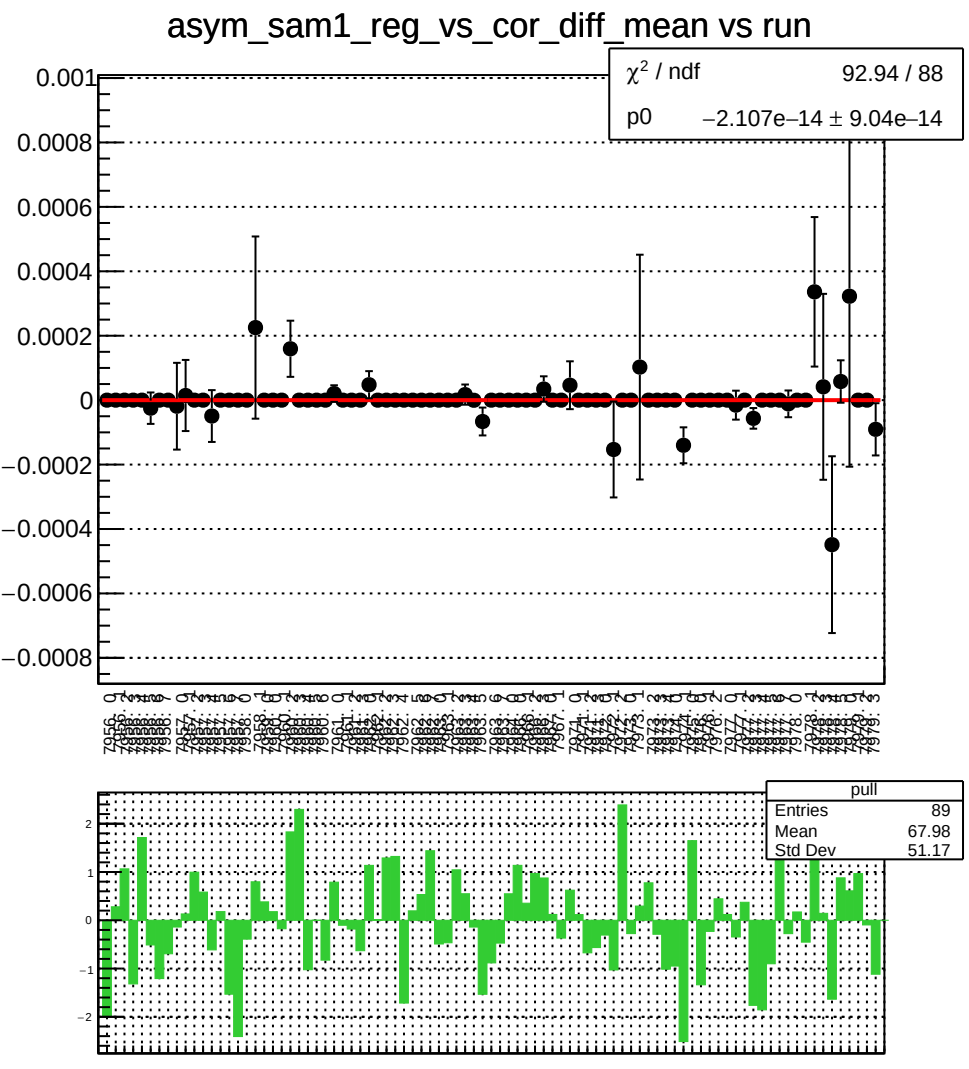

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 110.1 / 88
p0 368.6 ± 430.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 329.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01808
Std Dev 1.112
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

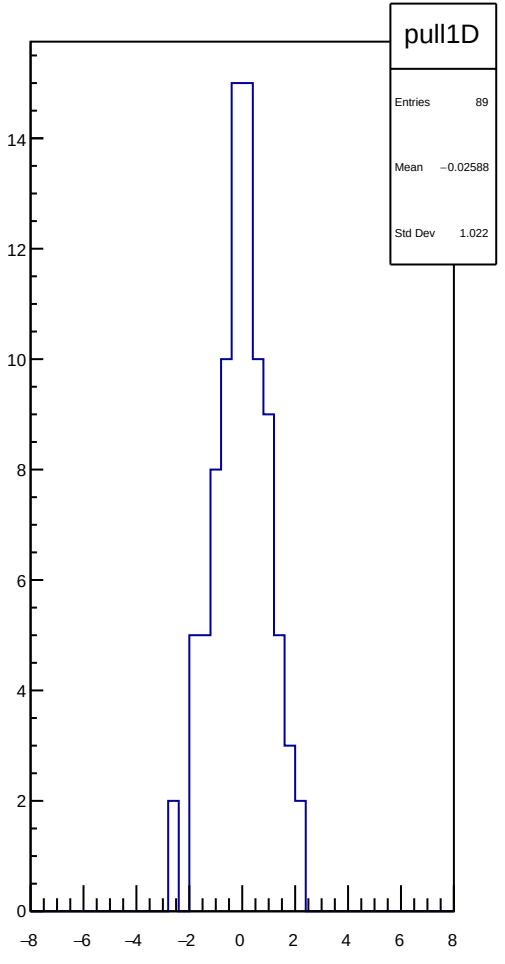

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1.54e+04 / 88
p0 405.3 ± 0.3042
550
500
450
400
350

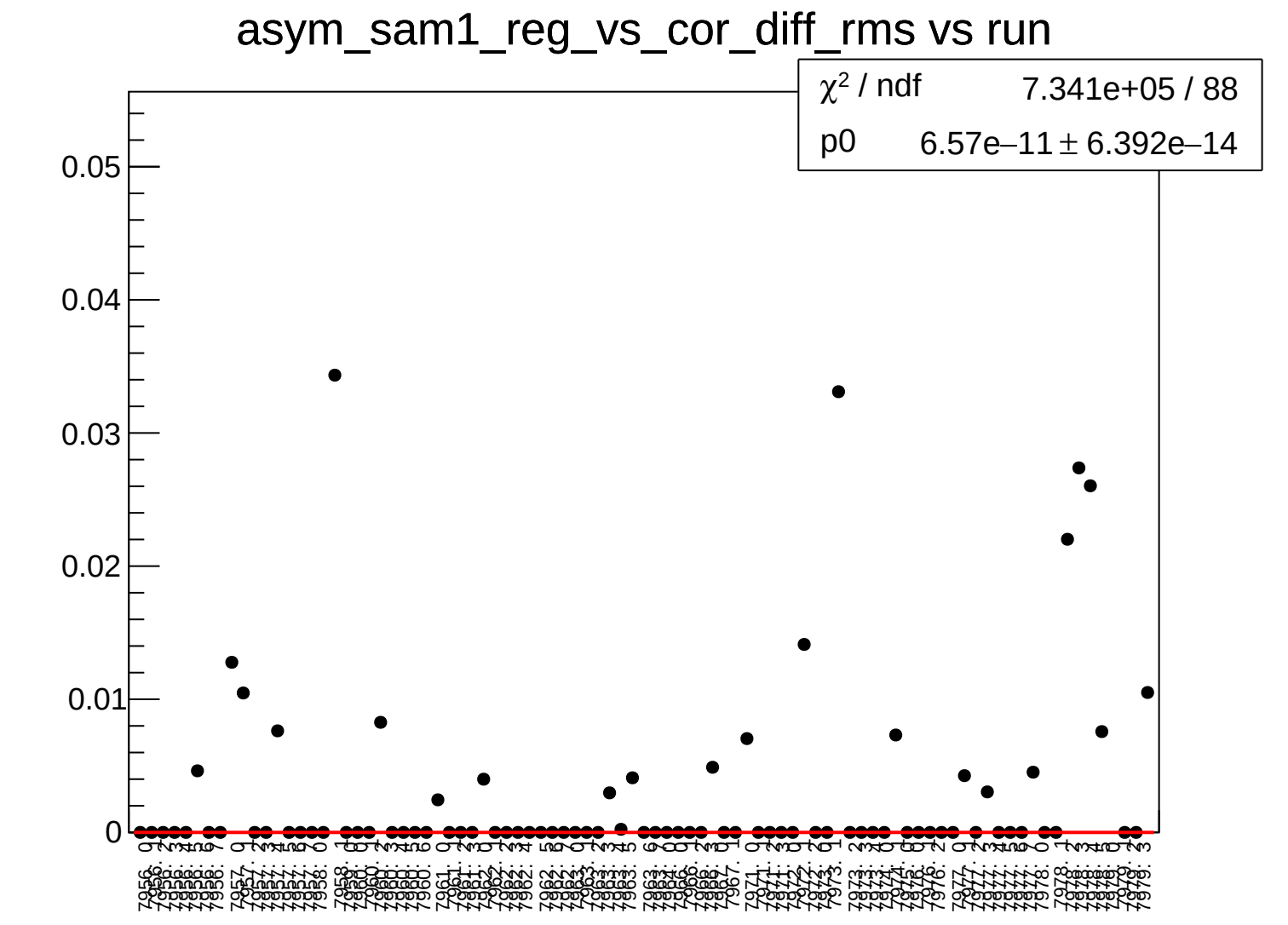

asym_sam1_mean vs run
χ² / ndf 107.9 / 88
p0 −380.7 ± 405.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −1137
Std Dev 0
2
1
0
−1
−2
−3

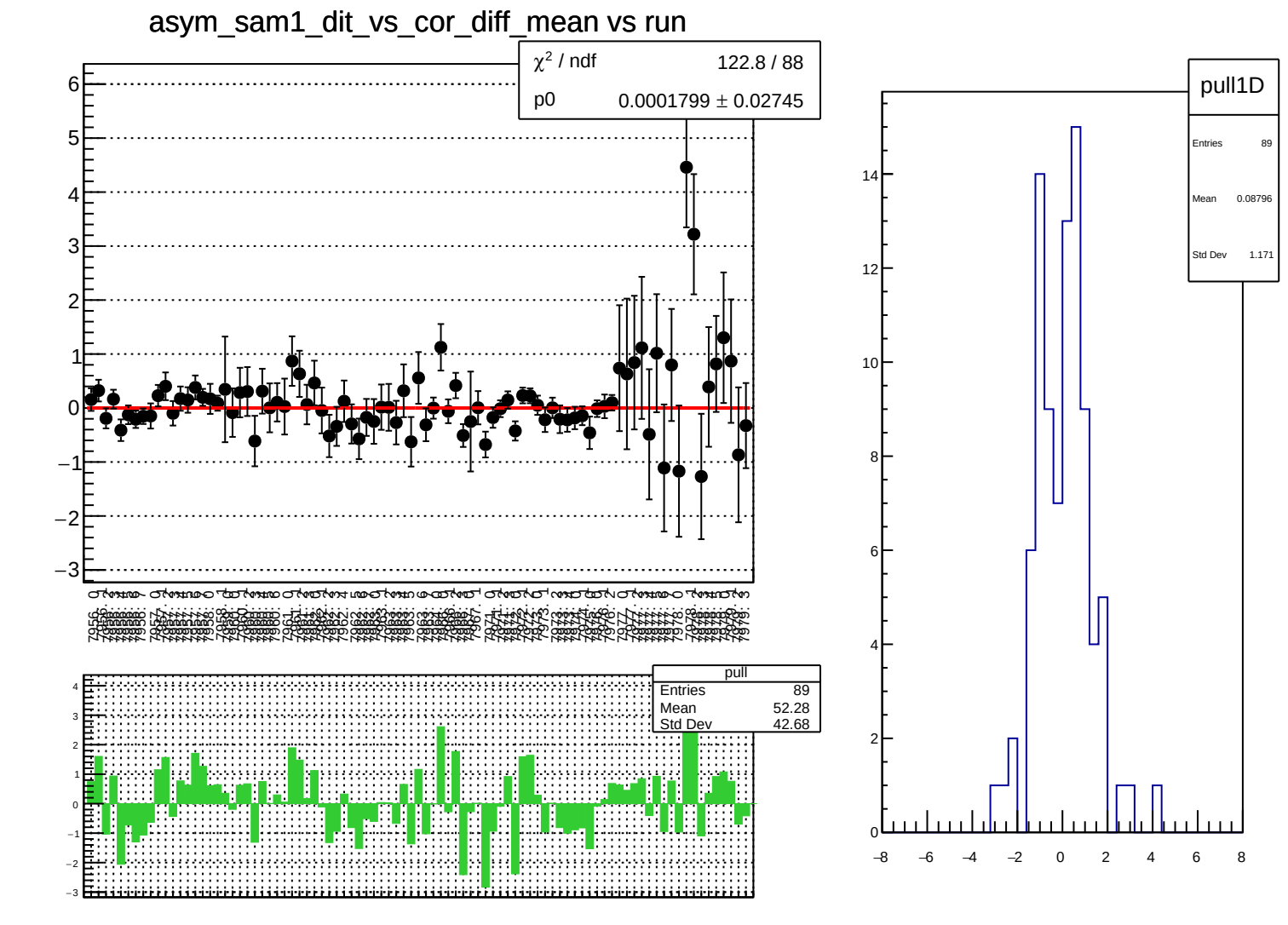

pull1D
Entries 89
Mean 0.004676
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

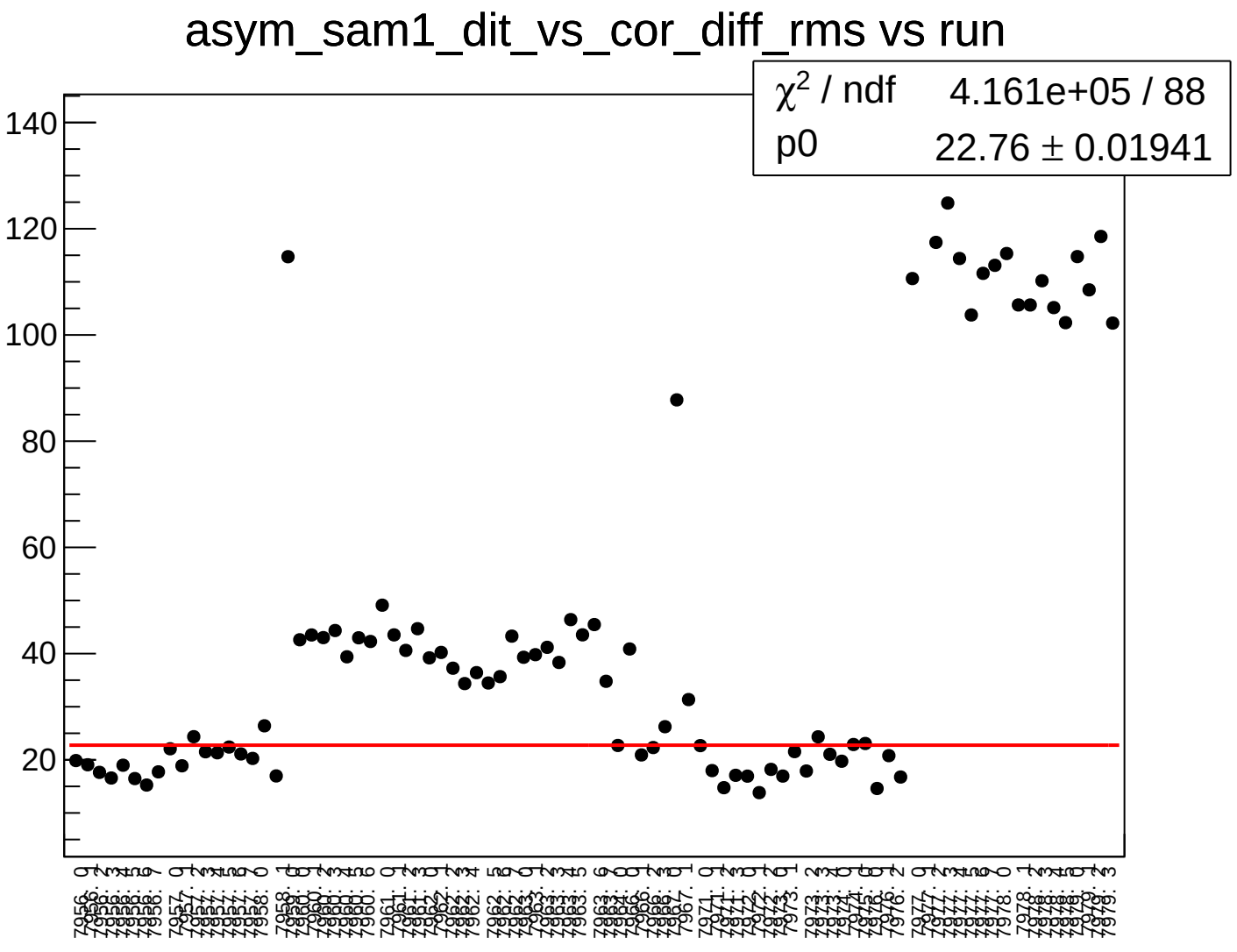

asym_sam1_rms vs run
$\chi^2$ / ndf 1.485e+04 / 88
p0 382.4 ± 0.287
550
500
450
400
350
300

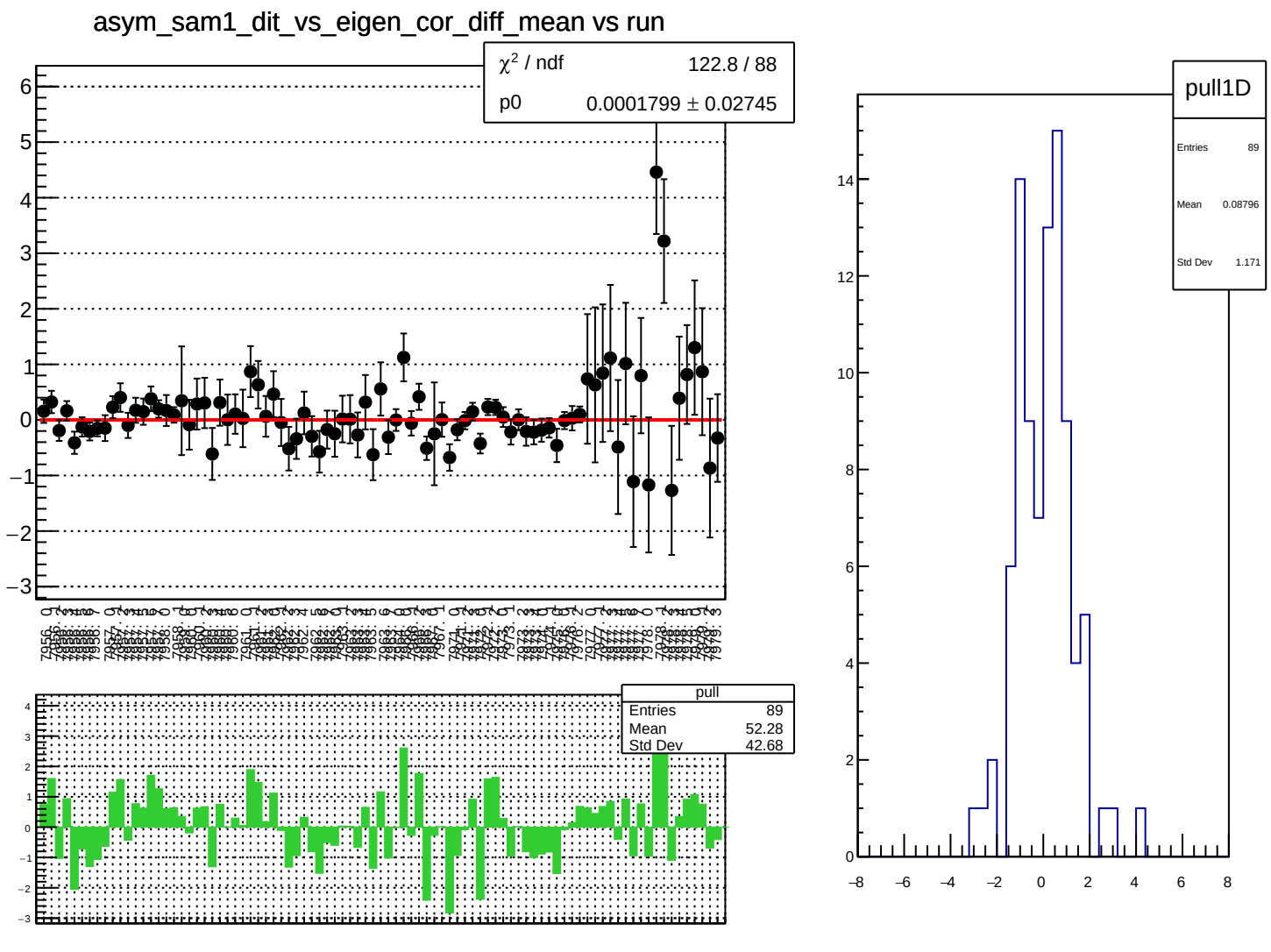

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 92.94 / 88
p0 −2.107e−14 ± 9.04e−14
pull
Entries 89
Mean 67.98
Std Dev 51.17

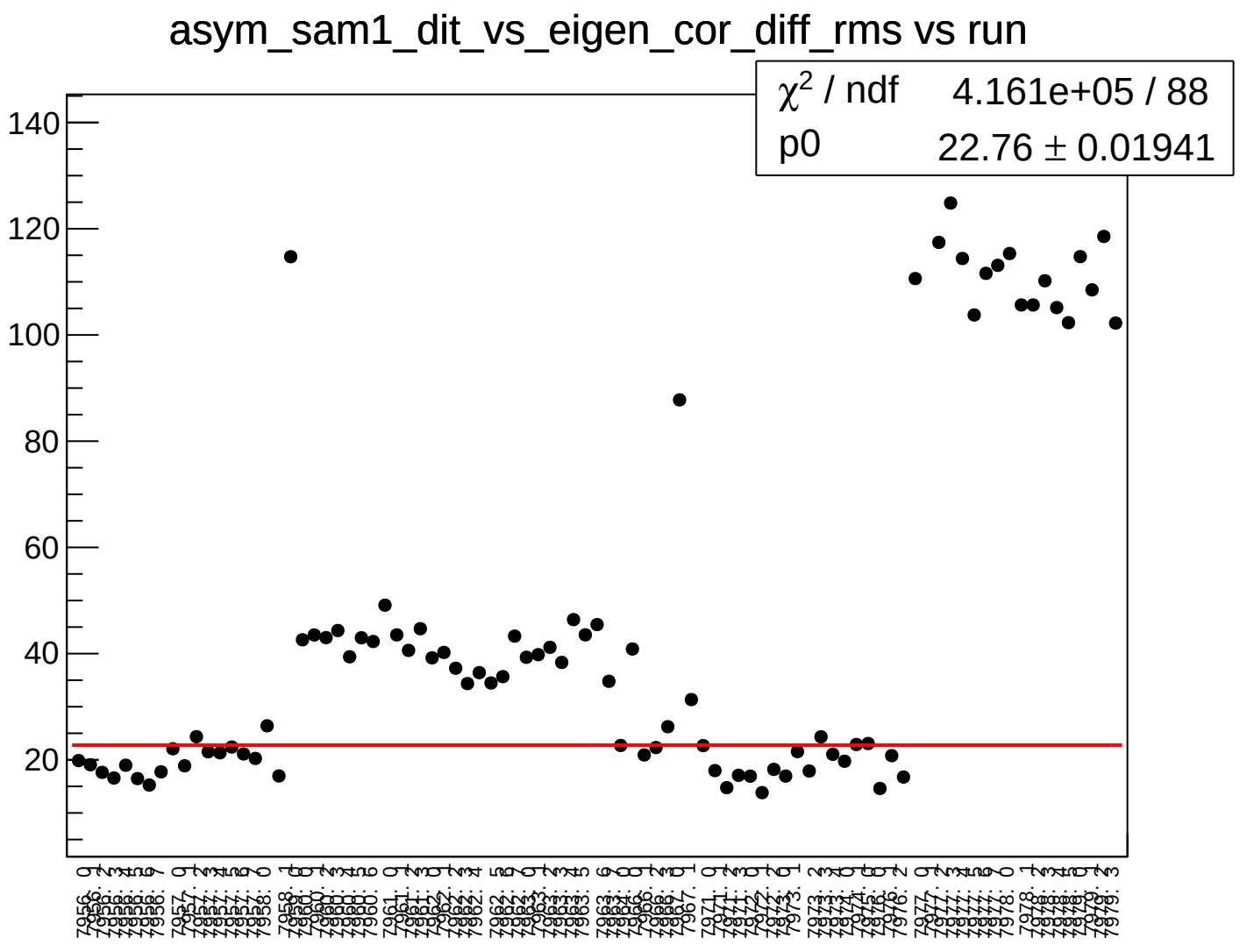

pull1D
Entries 89
Mean −0.02588
Std Dev 1.022

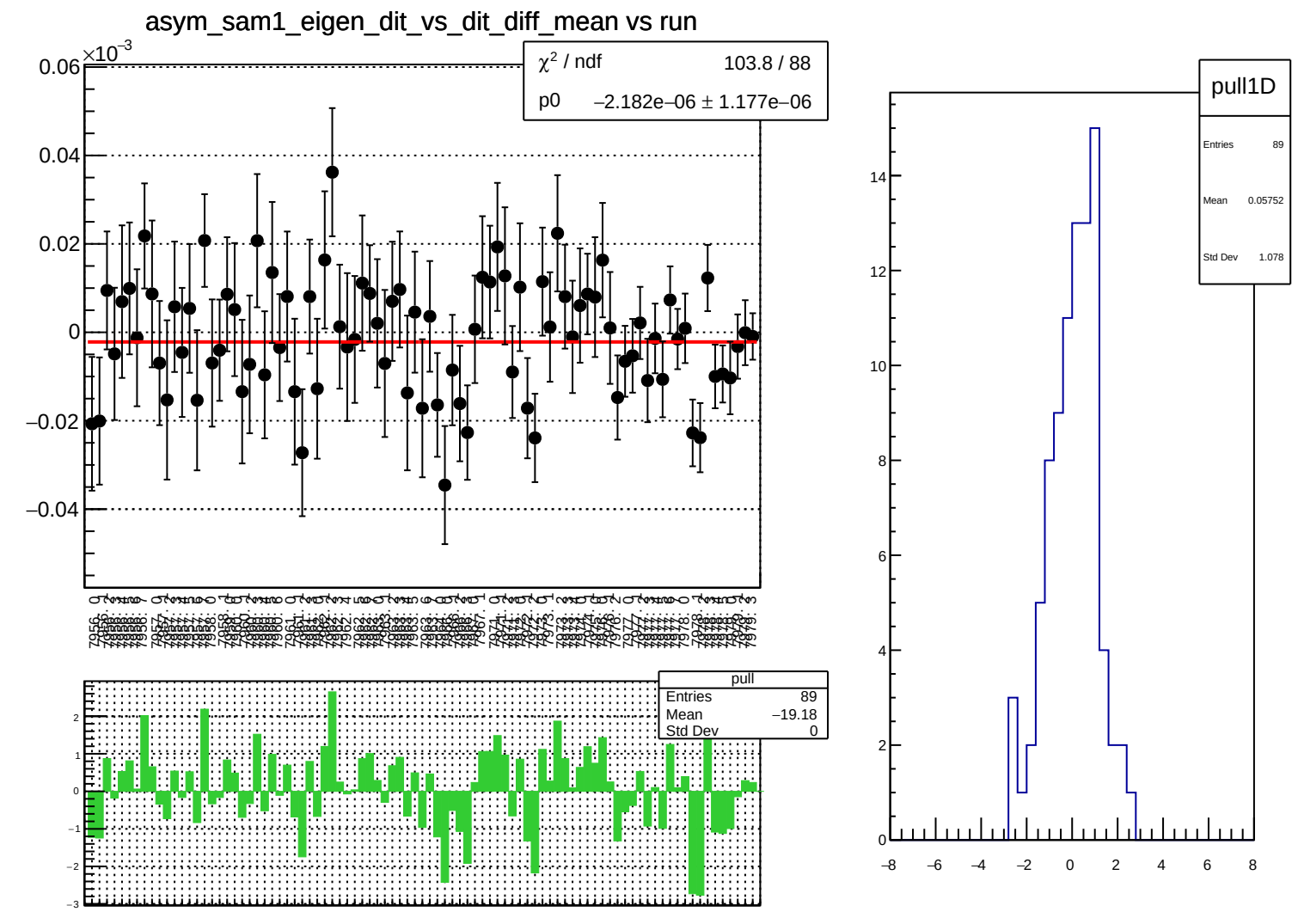

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 7.341e+05 / 88
p0 6.57e−11 ± 6.392e−14
0.05
0.04
0.03
0.02
0.01
0

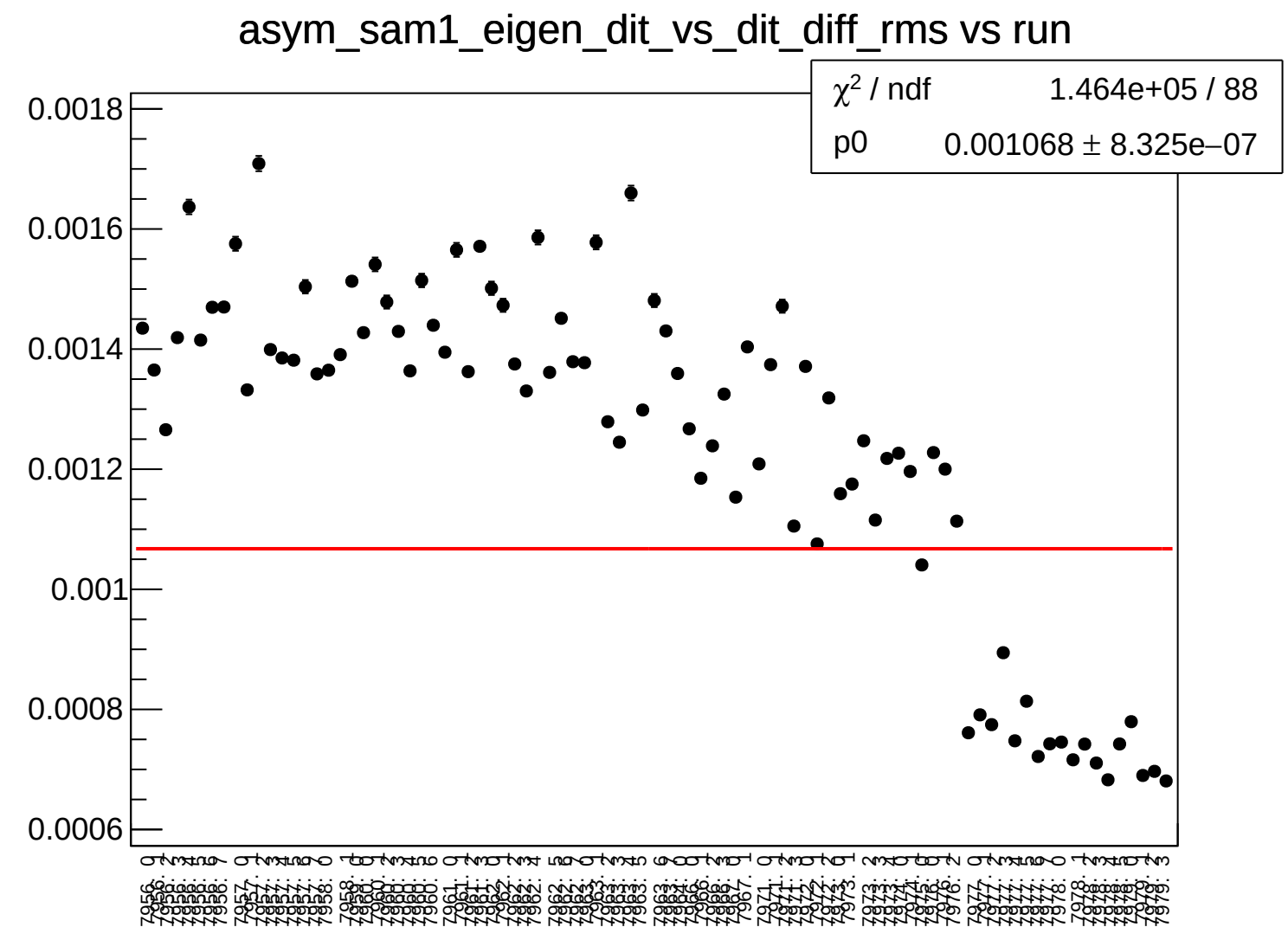

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 122.8 / 88
p0 0.0001799 ± 0.02745
pull
Entries 89
Mean 52.28
Std Dev 42.68
pull1D
Entries 89
Mean 0.08796
Std Dev 1.171

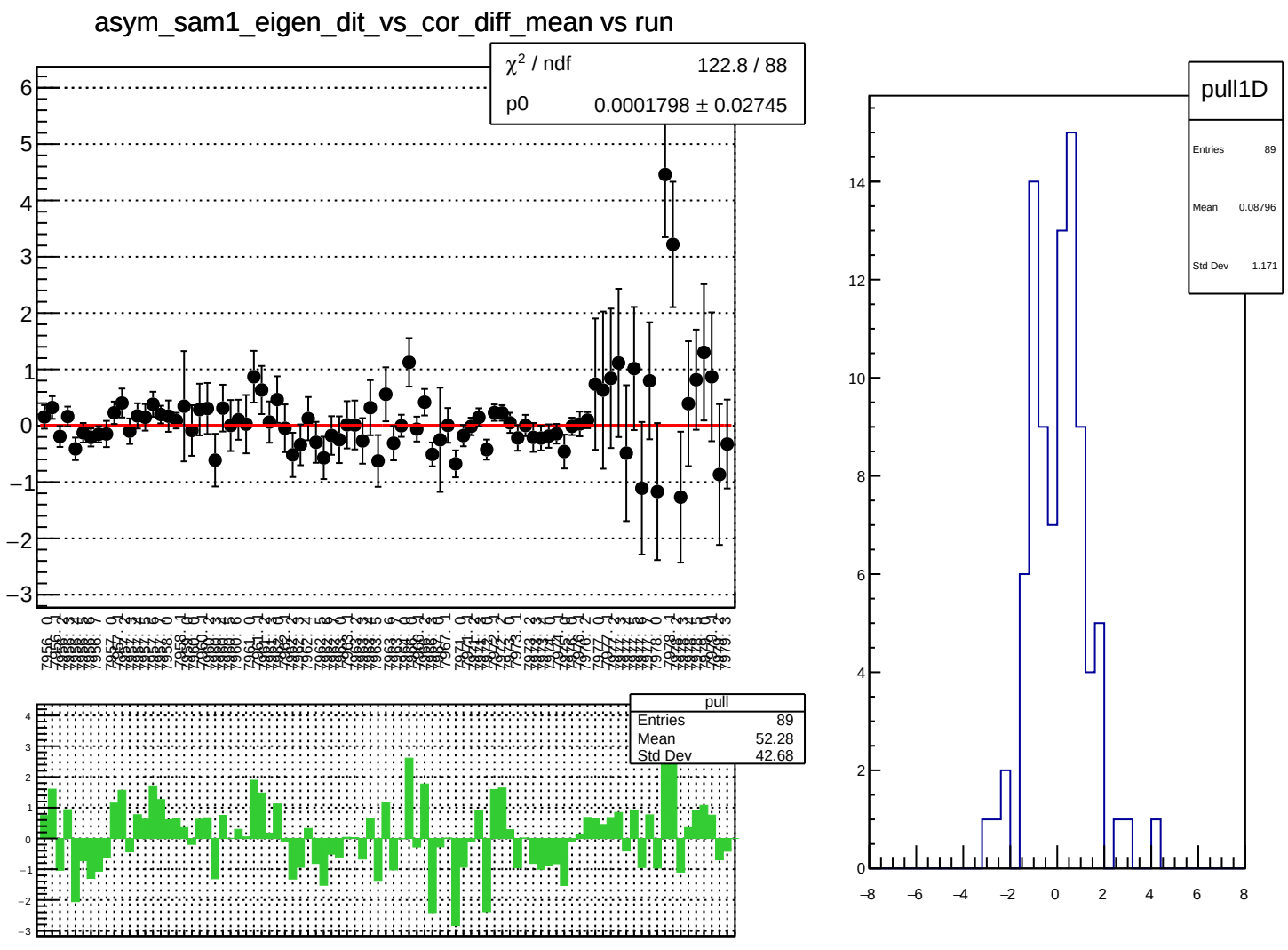

asym_sam1_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.161e+05 / 88
p0 22.76 ± 0.01941
140
120
100
80
60
40
20

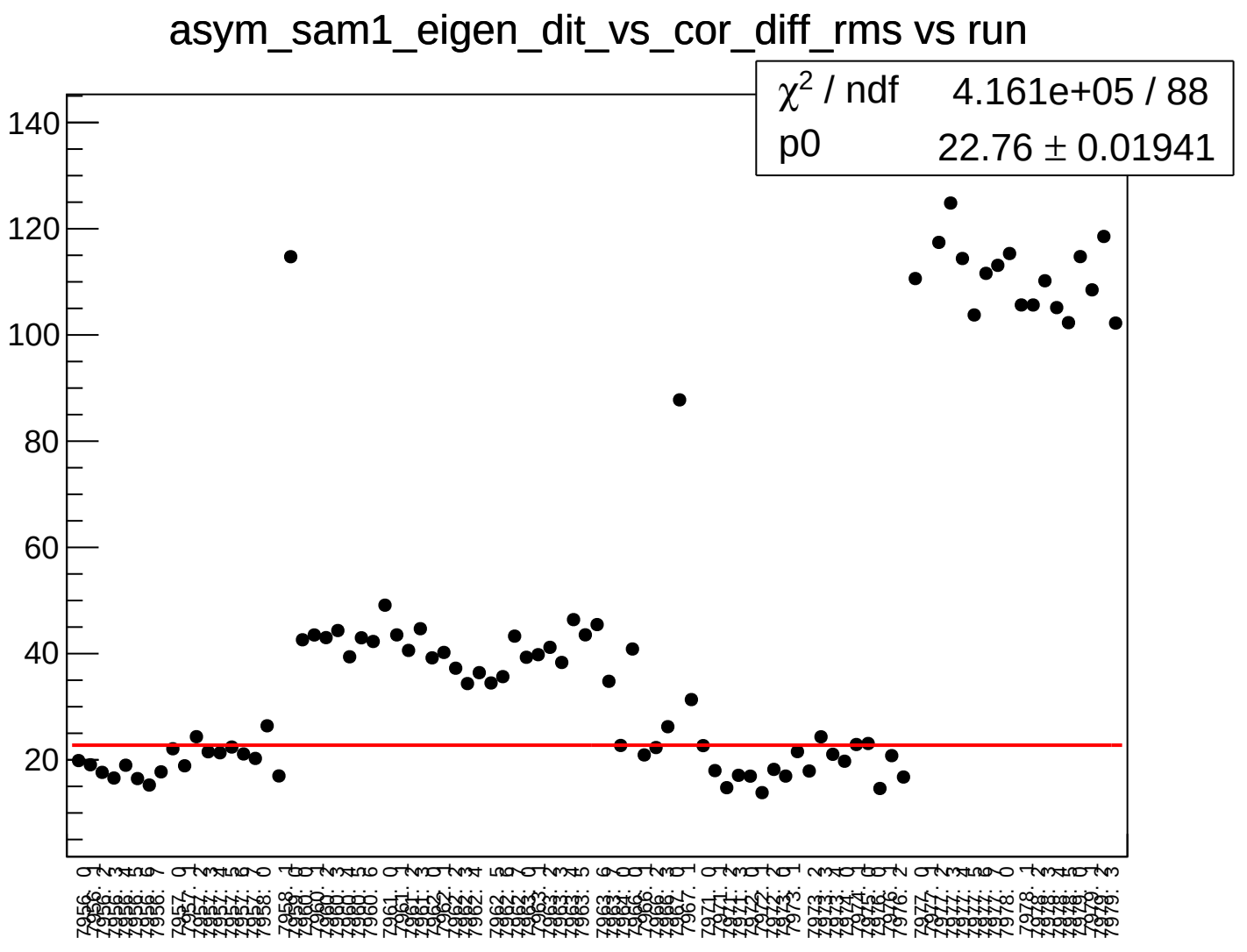

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.8 / 88
p0 0.0001799 ± 0.02745
pull
Entries 89
Mean 52.28
Std Dev 42.68
pull1D
Entries 89
Mean 0.08796
Std Dev 1.171

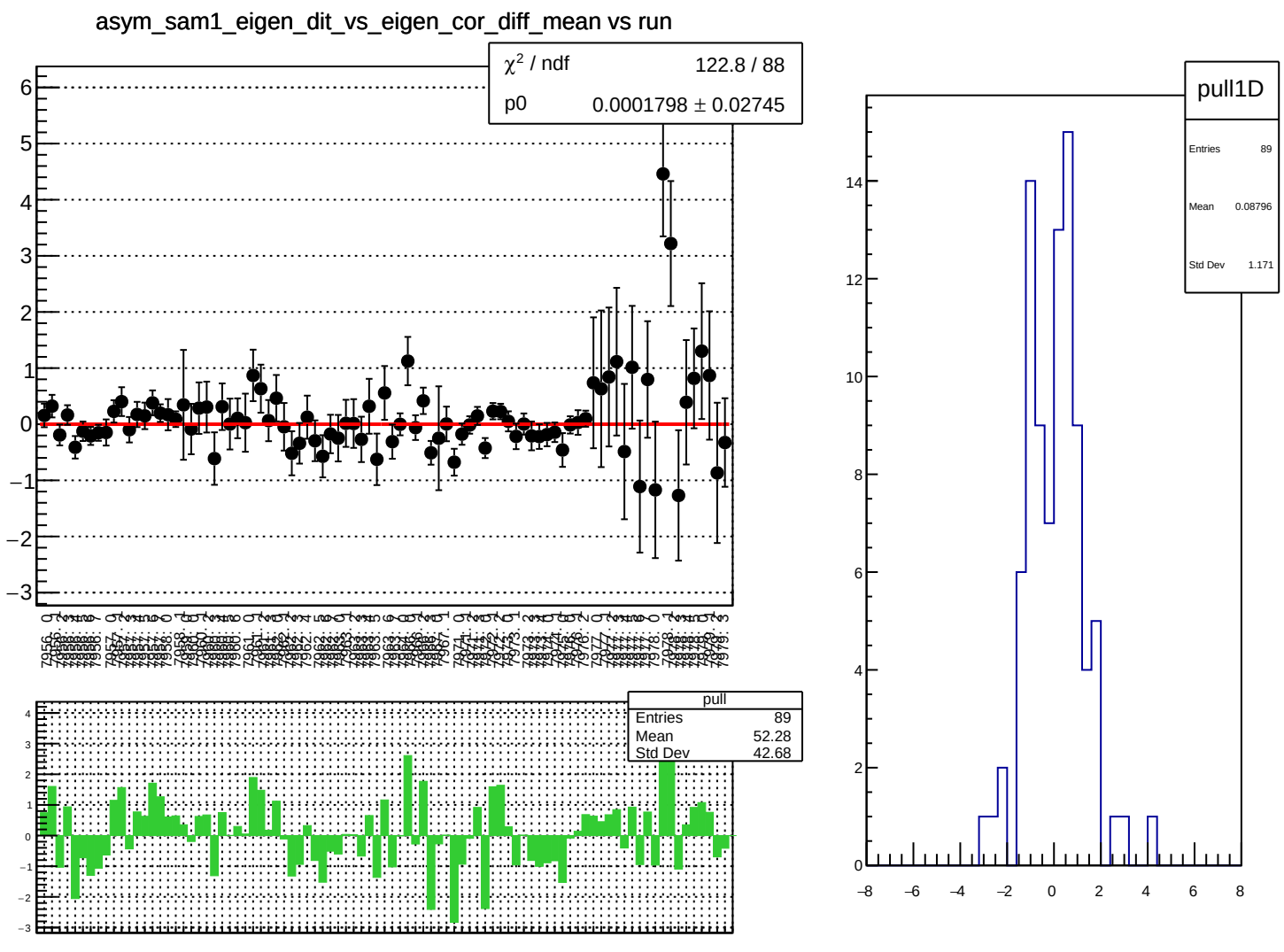

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.161e+05 / 88
p0 22.76 ± 0.01941
140
120
100
80
60
40
20

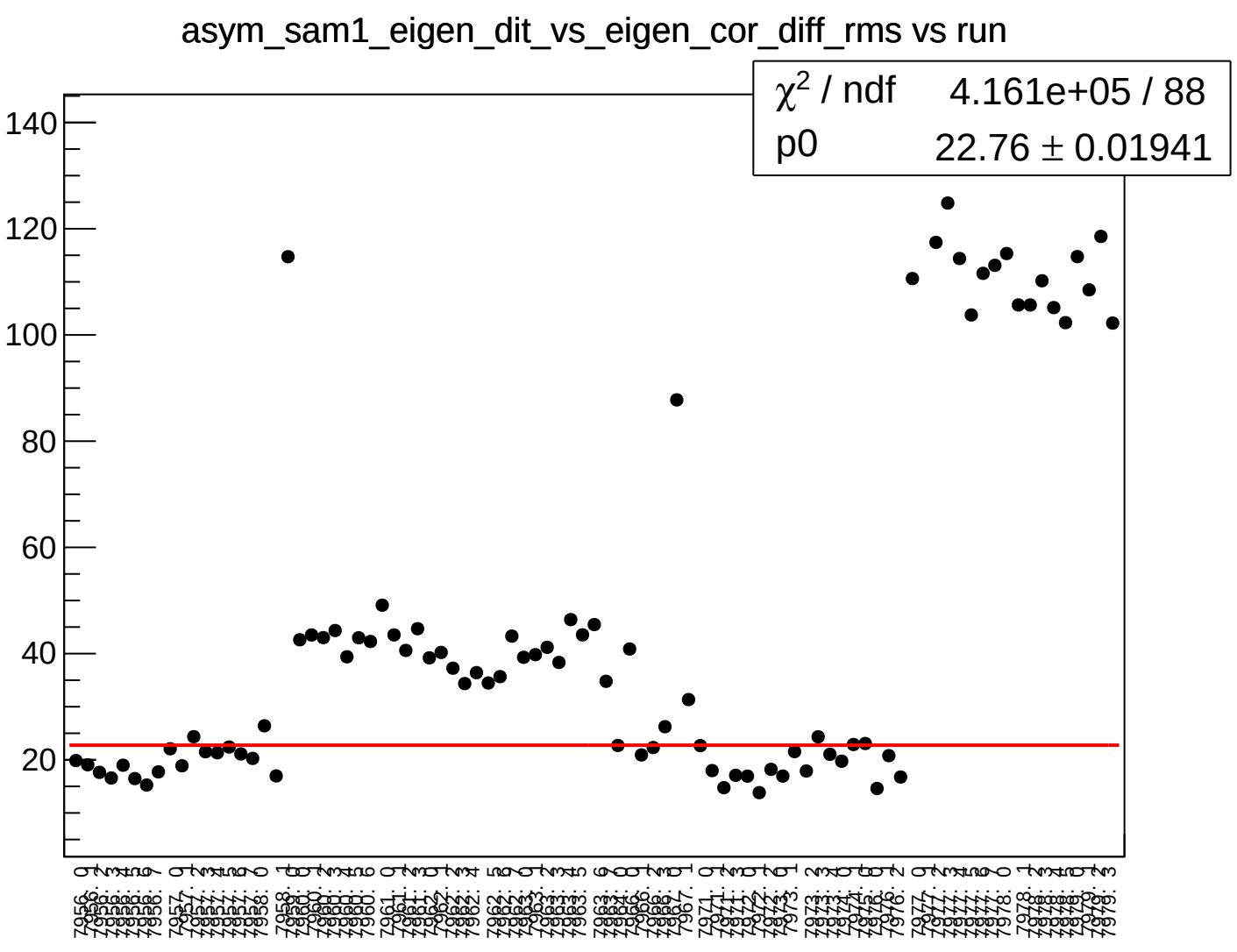

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 103.8 / 88
p0 −2.182e−06 ± 1.177e−06
×10⁻³
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean −19.18
Std Dev 0
pull1D
Entries 89
Mean 0.05752
Std Dev 1.078

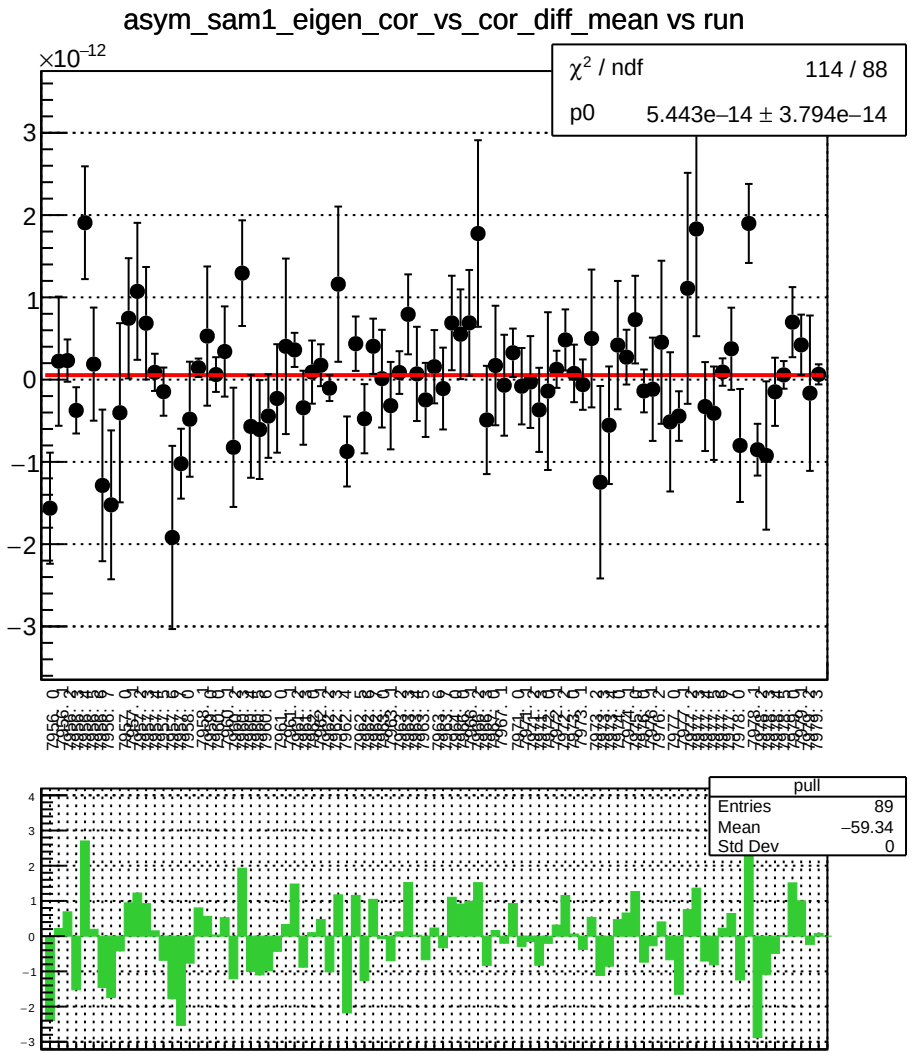

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.464e+05 / 88
p0 0.001068 ± 8.325e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

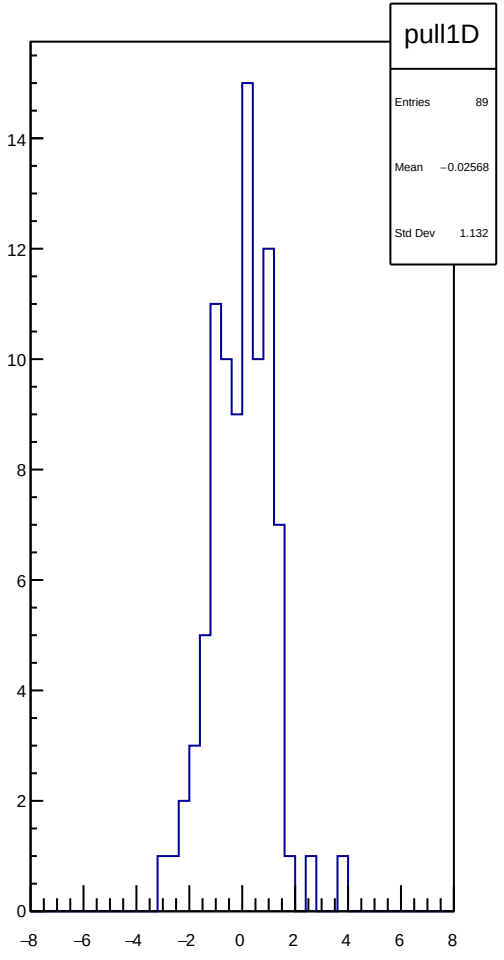

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 122.8 / 88
p0 0.0001798 ± 0.02745
pull
Entries 89
Mean 52.28
Std Dev 42.68
pull1D
Entries 89
Mean 0.08796
Std Dev 1.171

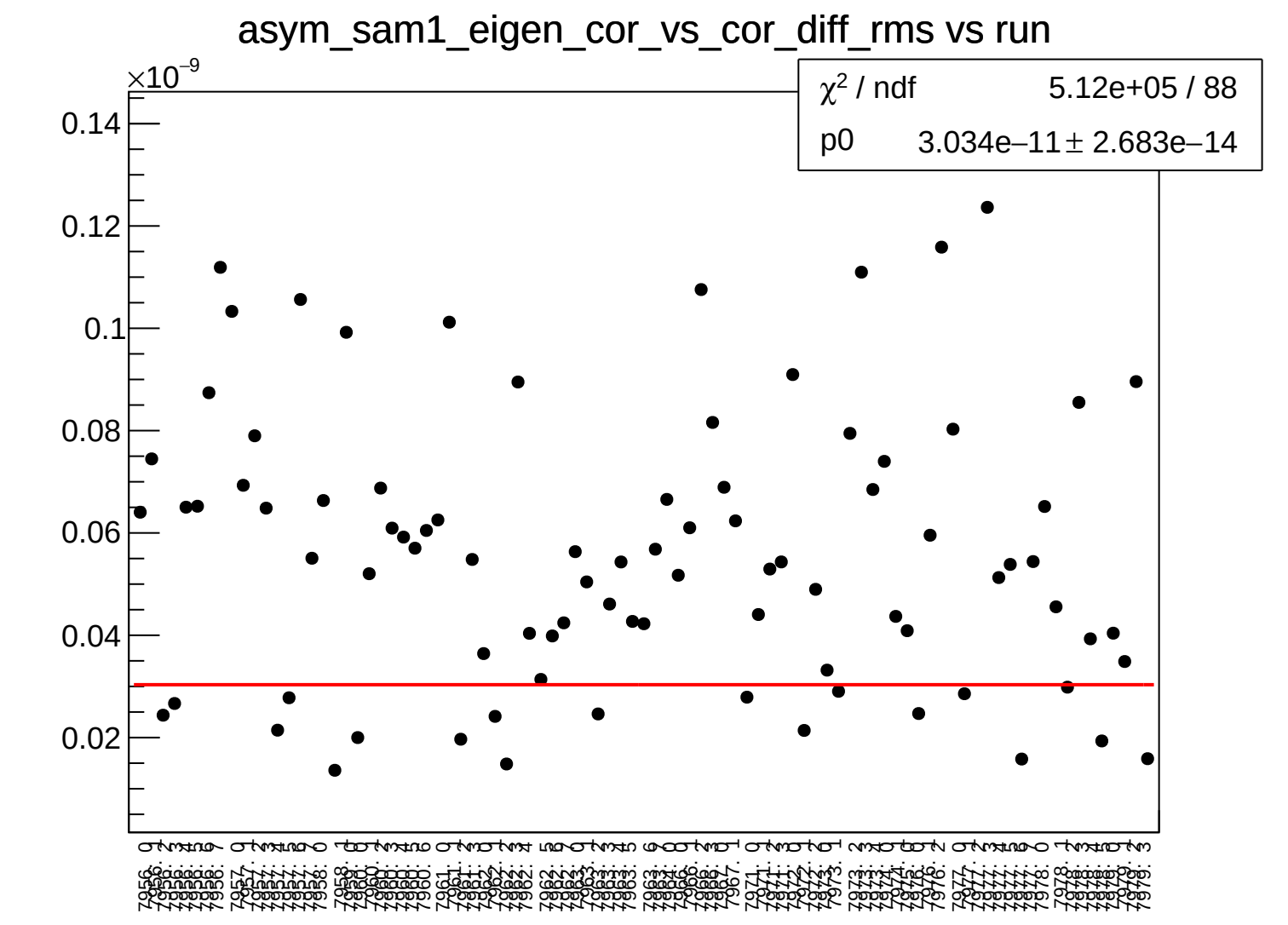

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.161e+05 / 88
p0 22.76 ± 0.01941
140
120
100
80
60
40
20

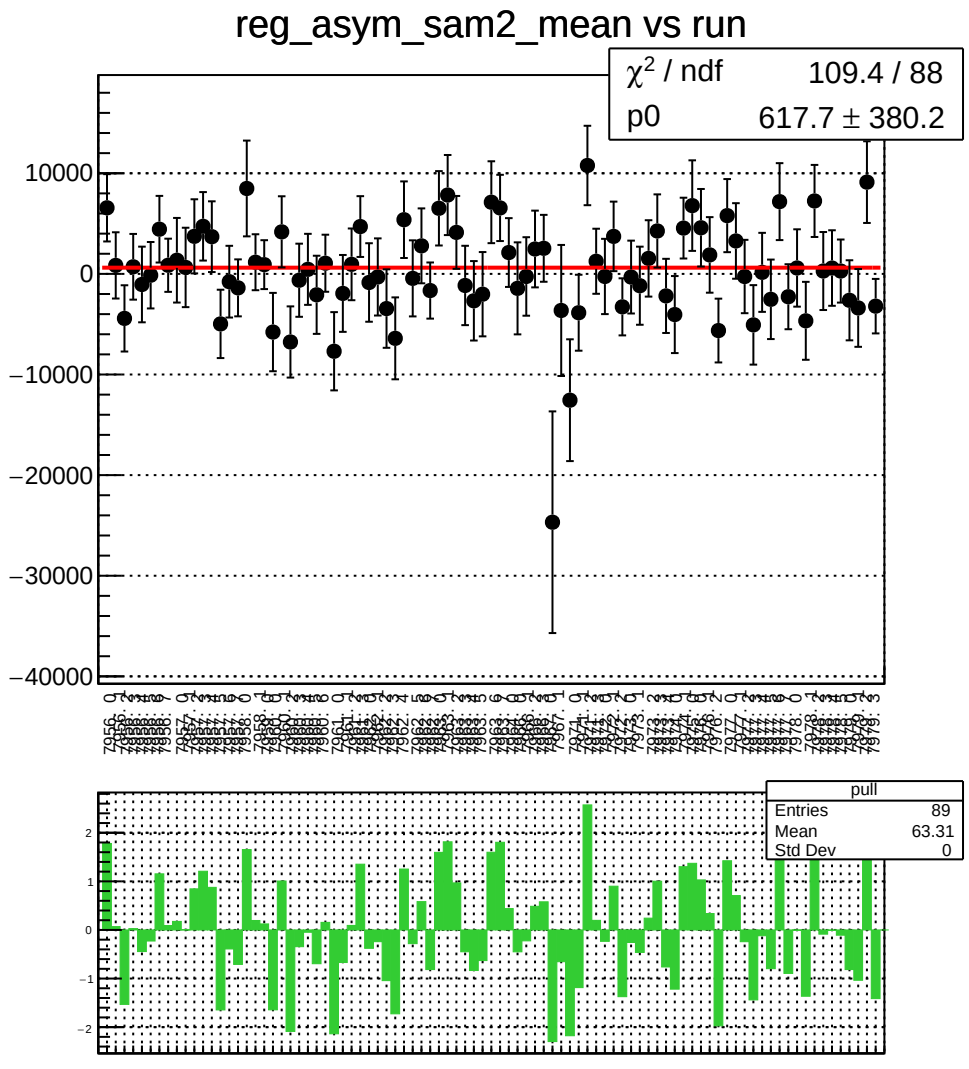

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.8 / 88
p0 0.0001798 ± 0.02745
pull
Entries 89
Mean 52.28
Std Dev 42.68
pull1D
Entries 89
Mean 0.08796
Std Dev 1.171

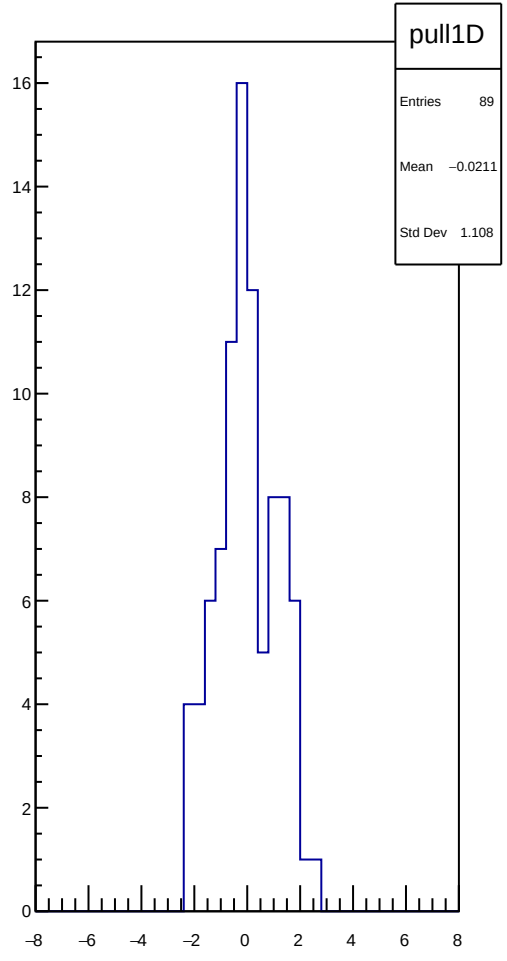

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.161e+05 / 88
p0 22.76 ± 0.01941
140
120
100
80
60
40
20

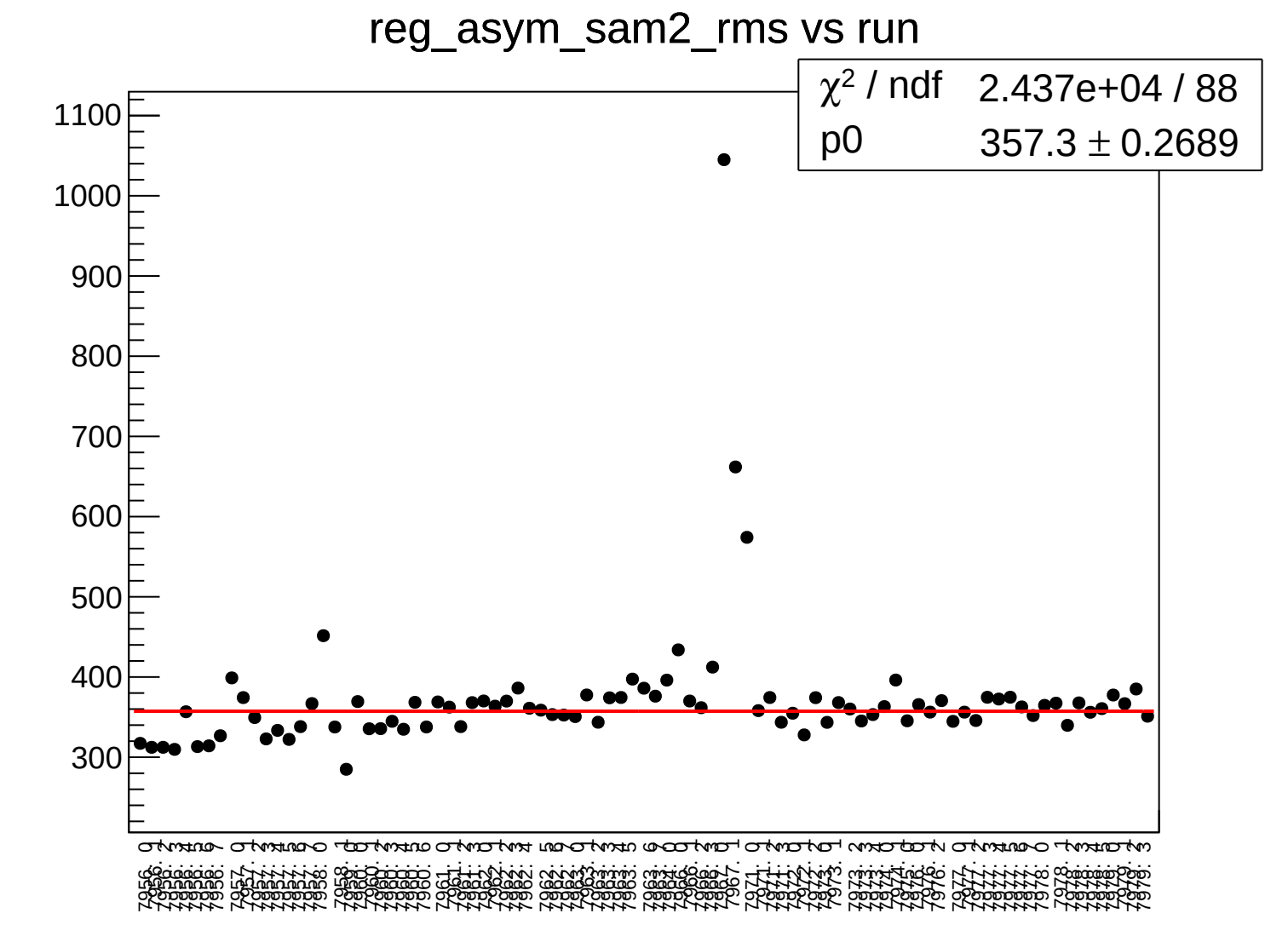

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 114 / 88
p0 5.443e−14 ± 3.794e−14
pull
Entries 89
Mean −59.34
Std Dev 0

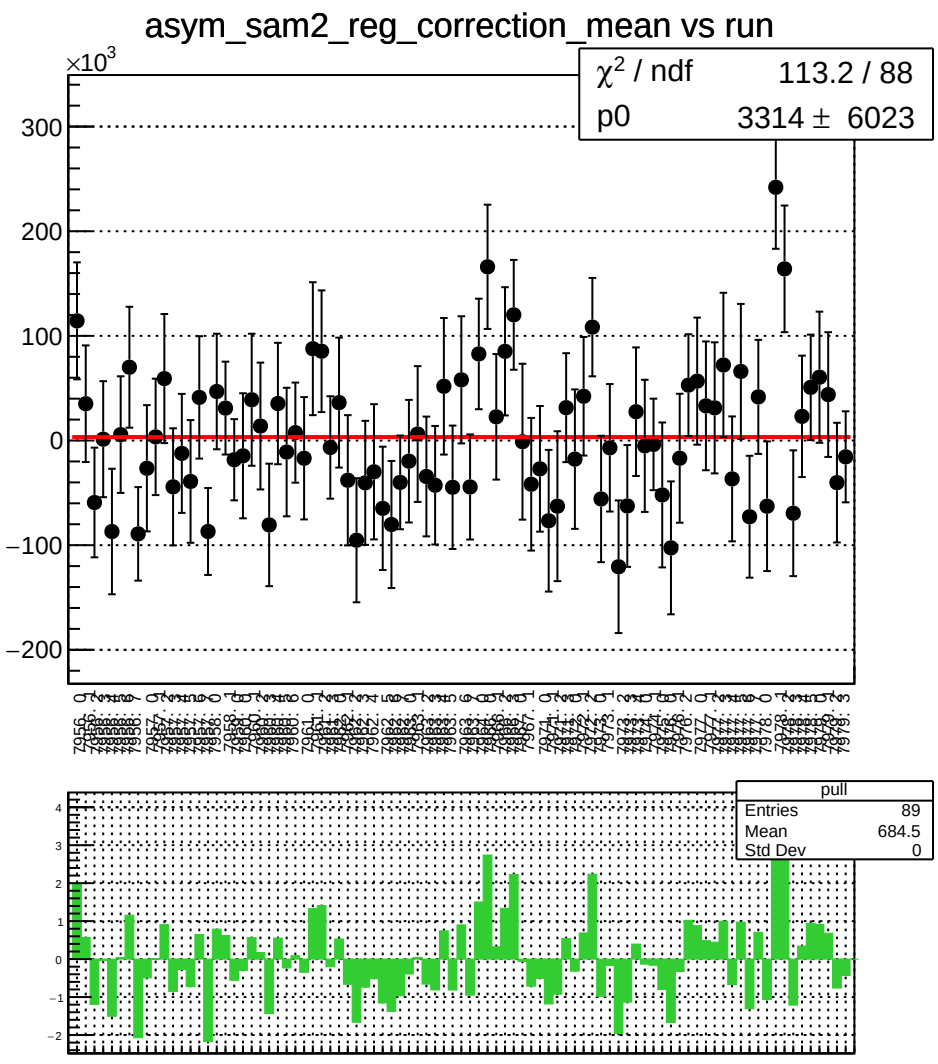

pull1D
Entries 89
Mean −0.02568
Std Dev 1.132

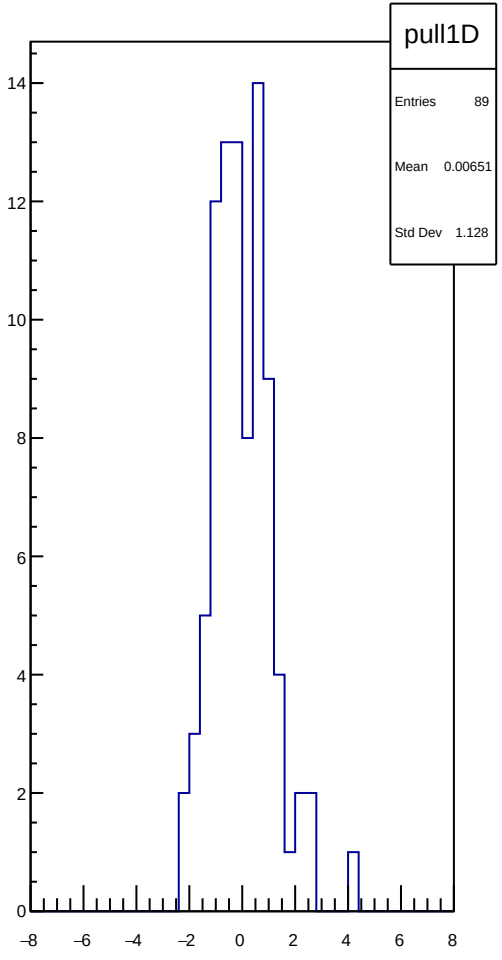

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.12e+05 / 88
p0 3.034e−11 ± 2.683e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

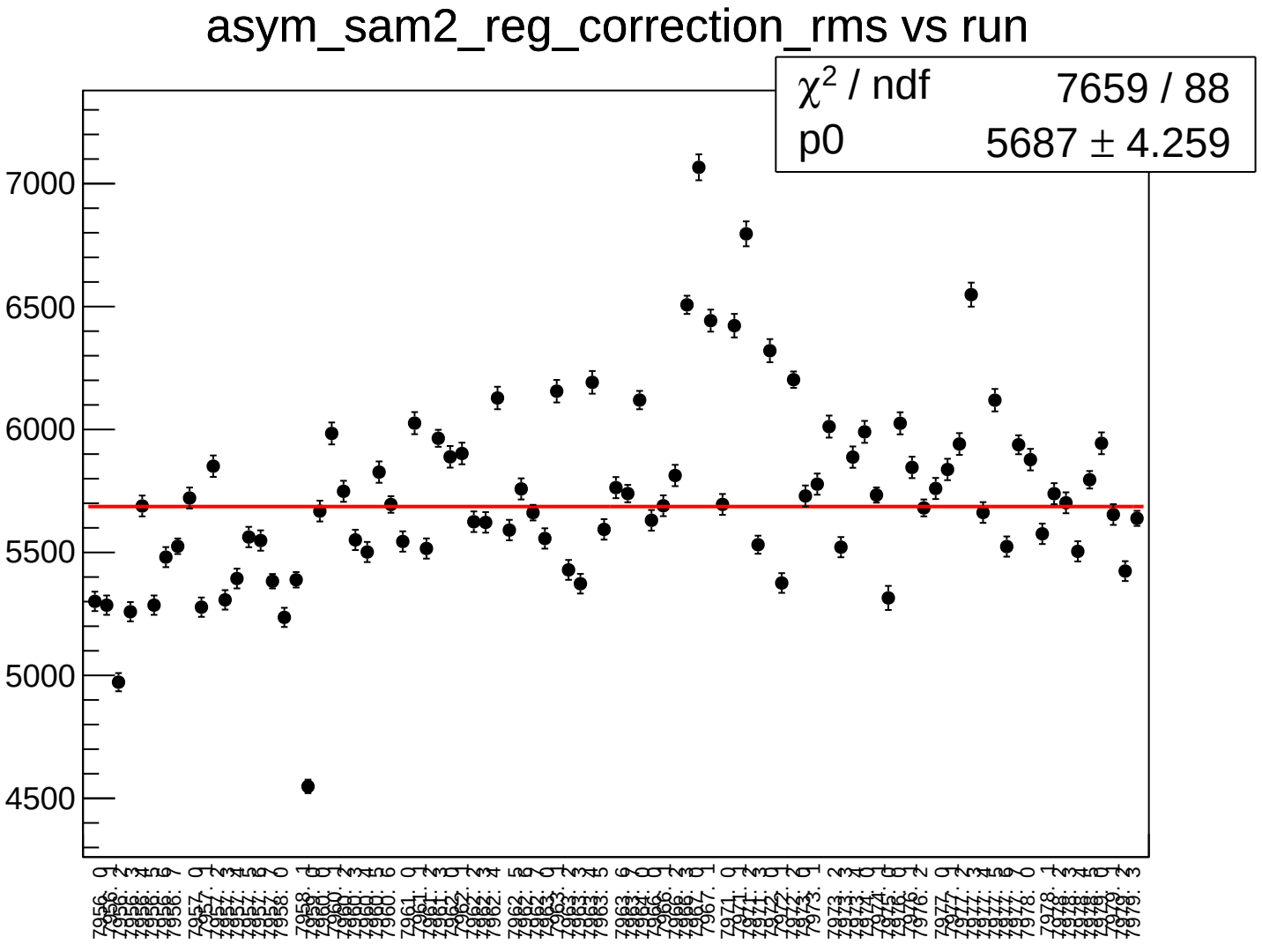

reg_asym_sam2_mean vs run
$\chi^2$ / ndf 109.4 / 88
p0 617.7 ± 380.2
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 63.31
Std Dev 0
2
1
0
−1
−2

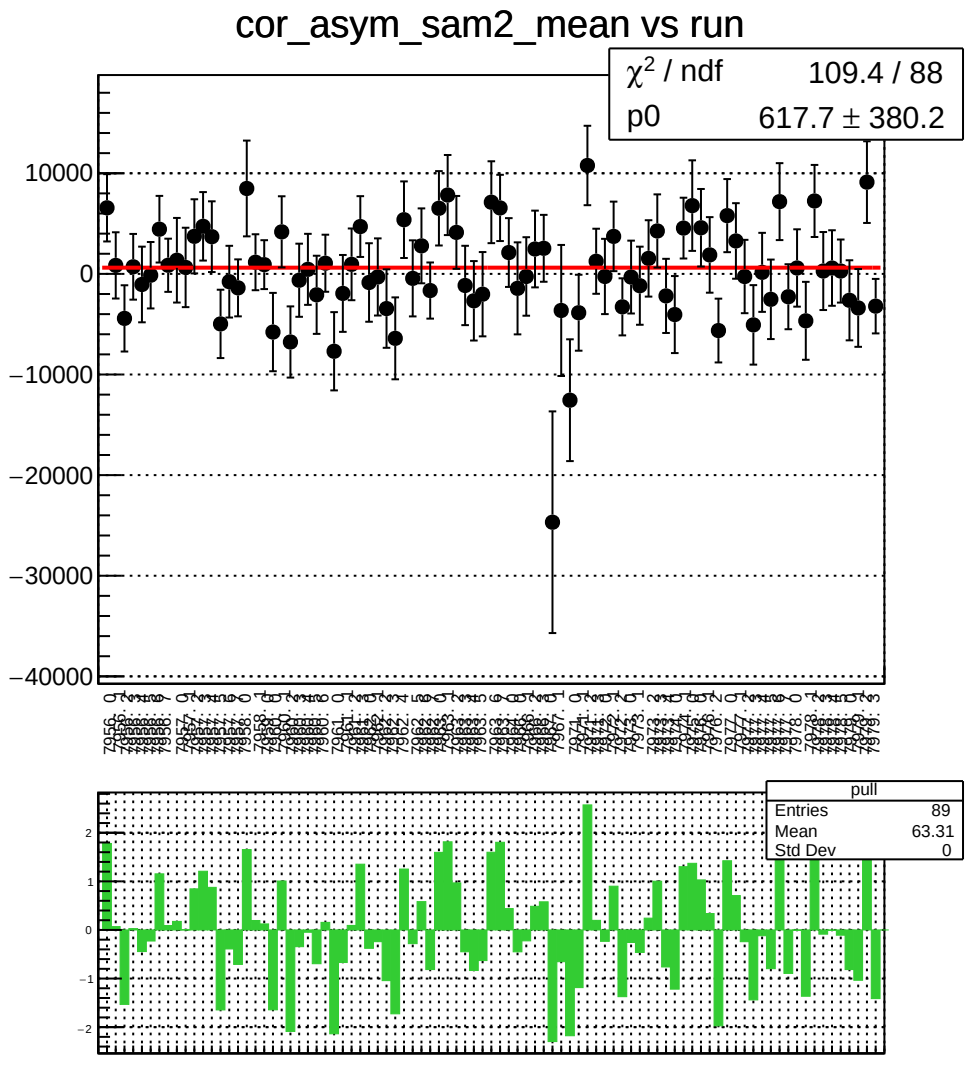

pull1D
Entries 89
Mean −0.0211
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

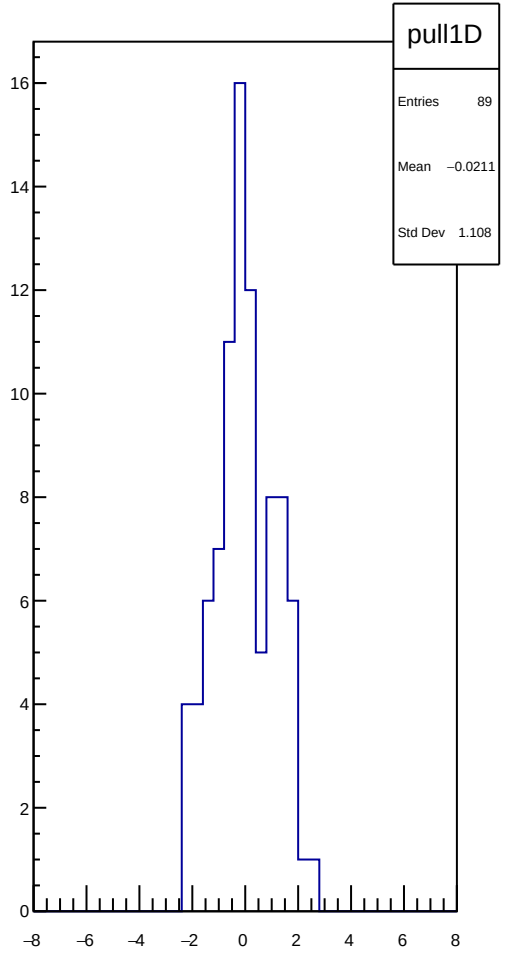

reg_asym_sam2_rms vs run
χ² / ndf 2.437e+04 / 88
p0 357.3 ± 0.2689
1100
1000
900
800
700
600
500
400
300

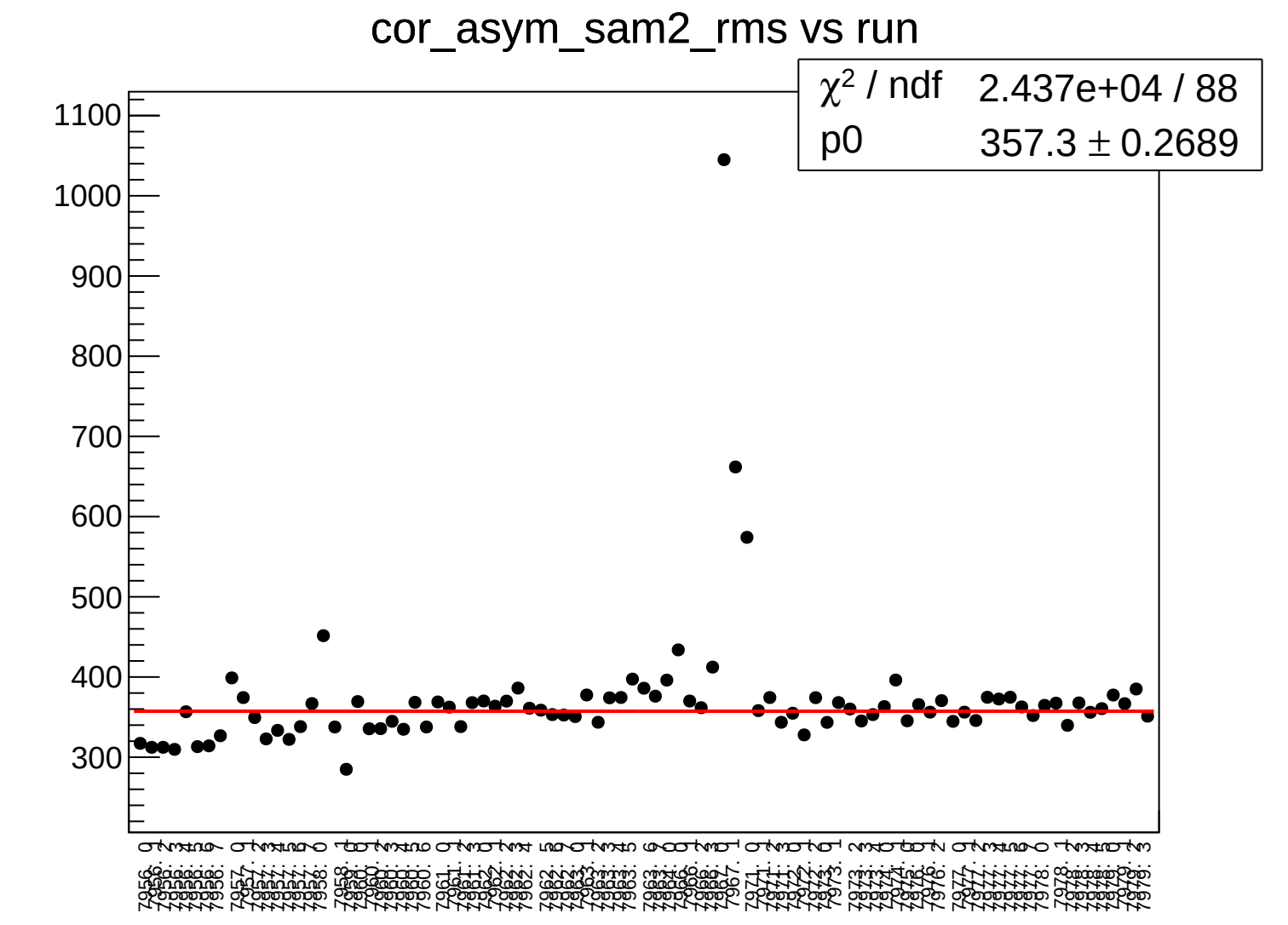

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 113.2 / 88
p0 3314 ± 6023
300
200
100
0
−100
−200
pull
Entries 89
Mean 684.5
Std Dev 0
4
3
2
1
0
−1
−2

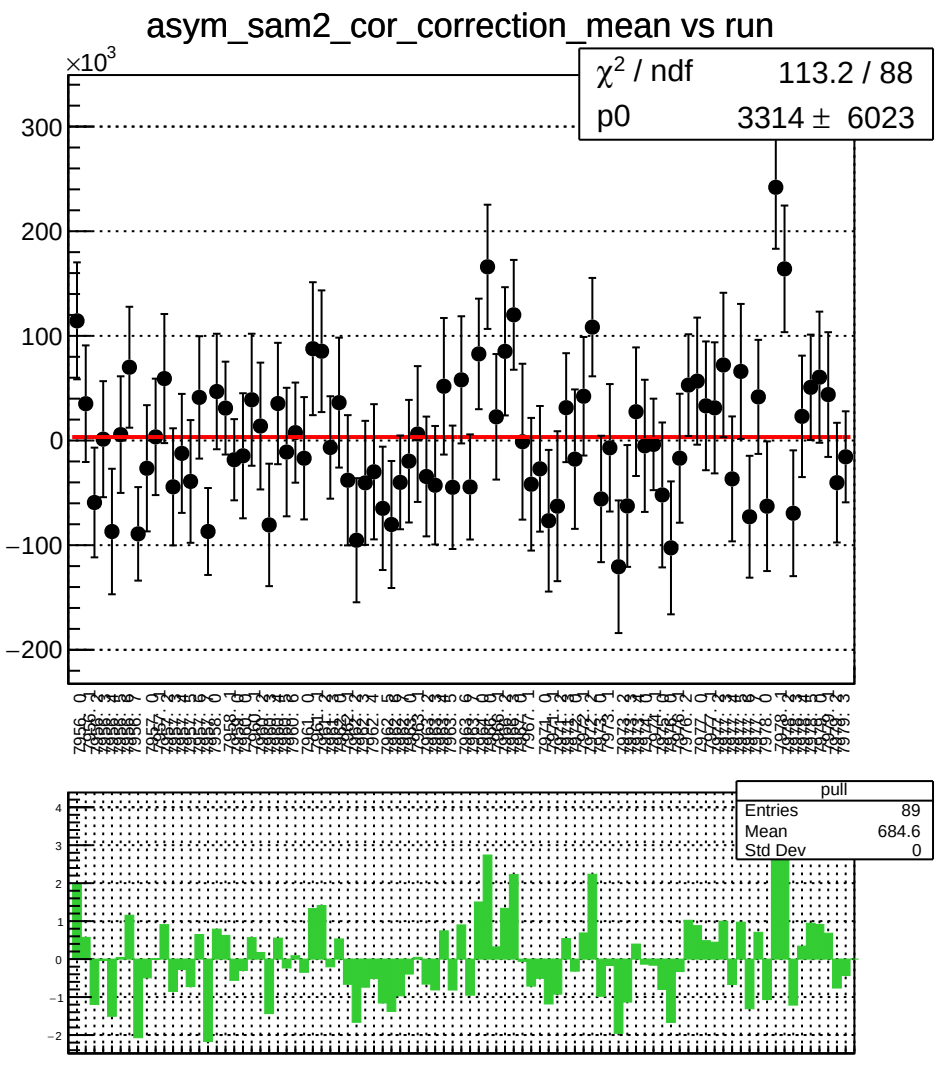

pull1D
Entries 89
Mean 0.00651
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

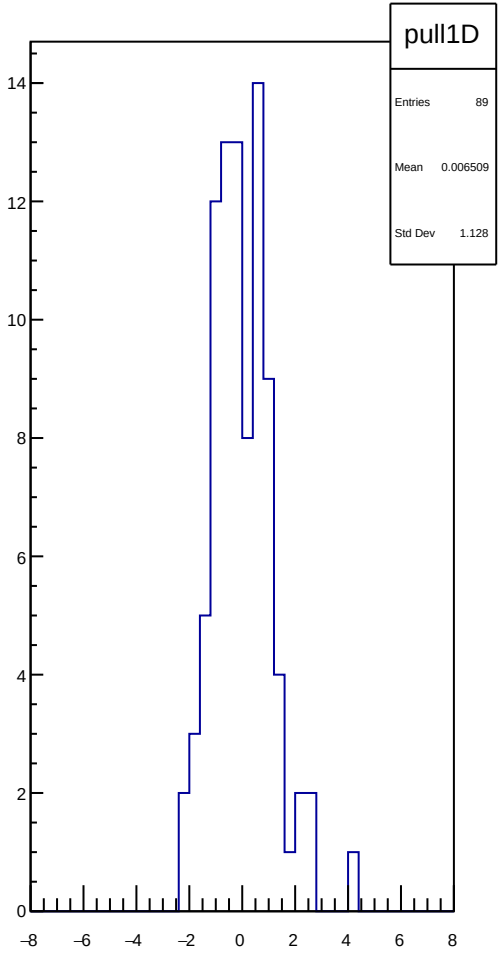

asym_sam2_reg_correction_rms vs run
χ² / ndf 7659 / 88
p0 5687 ± 4.259
7000
6500
6000
5500
5000
4500

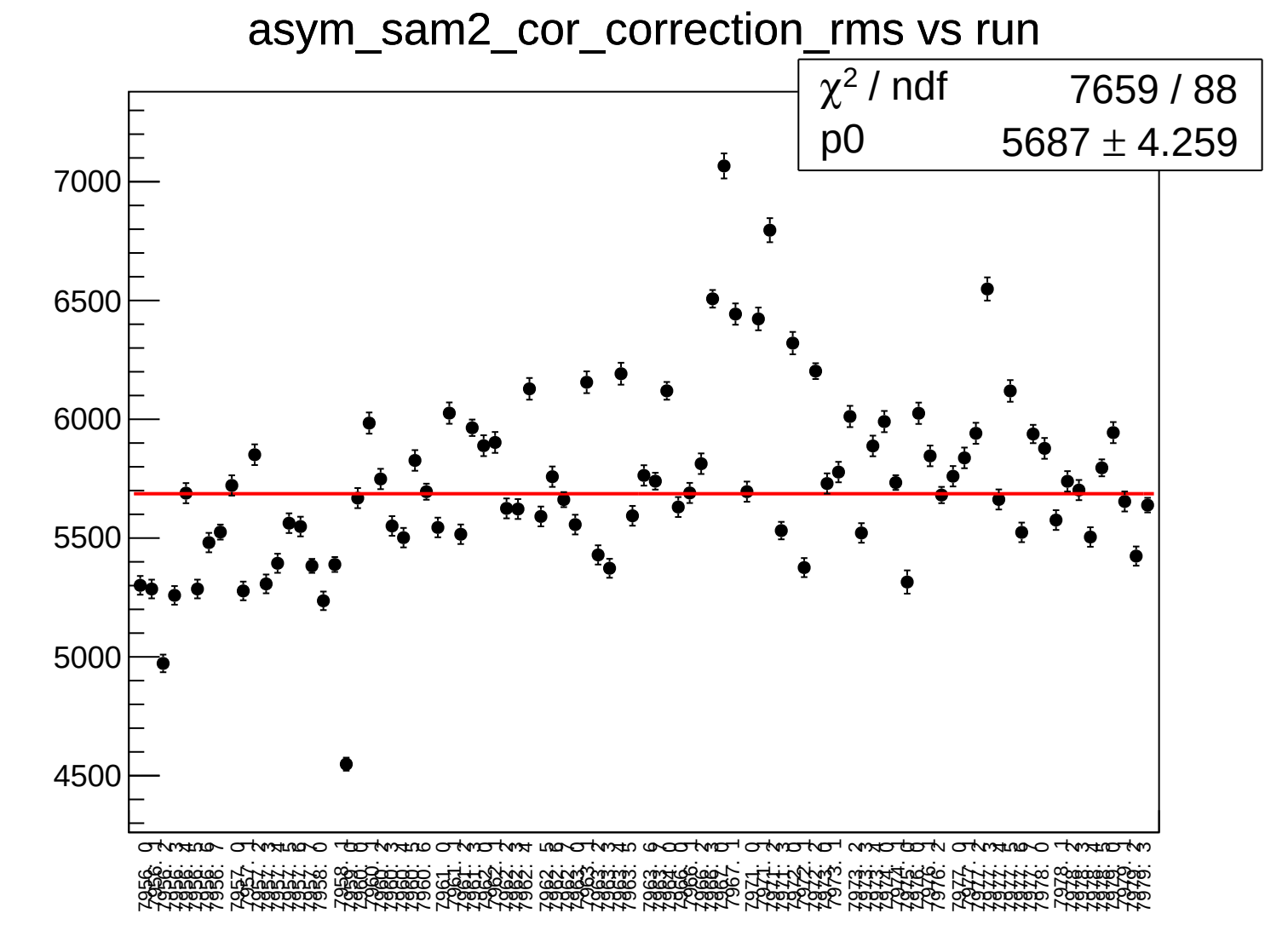

cor_asym_sam2_mean vs run
χ² / ndf 109.4 / 88
p0 617.7 ± 380.2
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 63.31
Std Dev 0
2
1
0
−1
−2

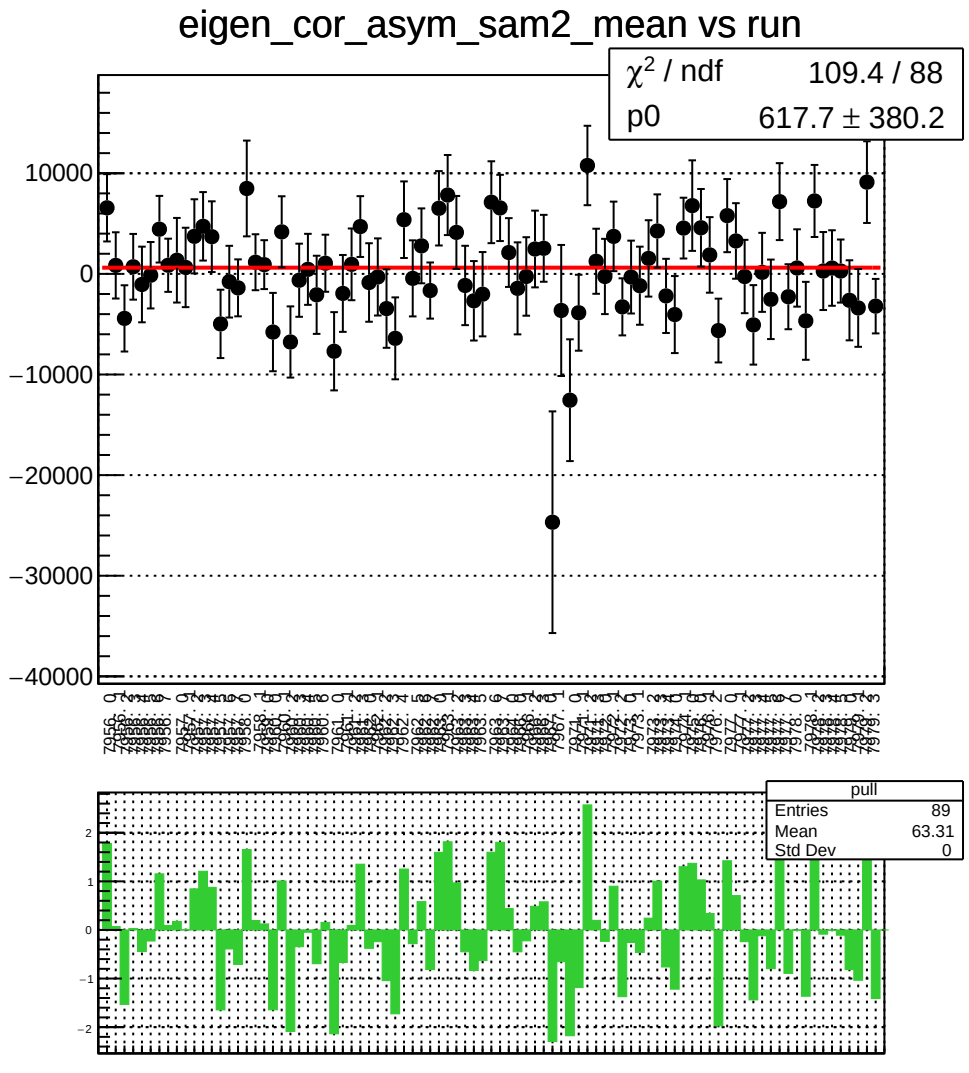

pull1D
Entries 89
Mean −0.0211
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

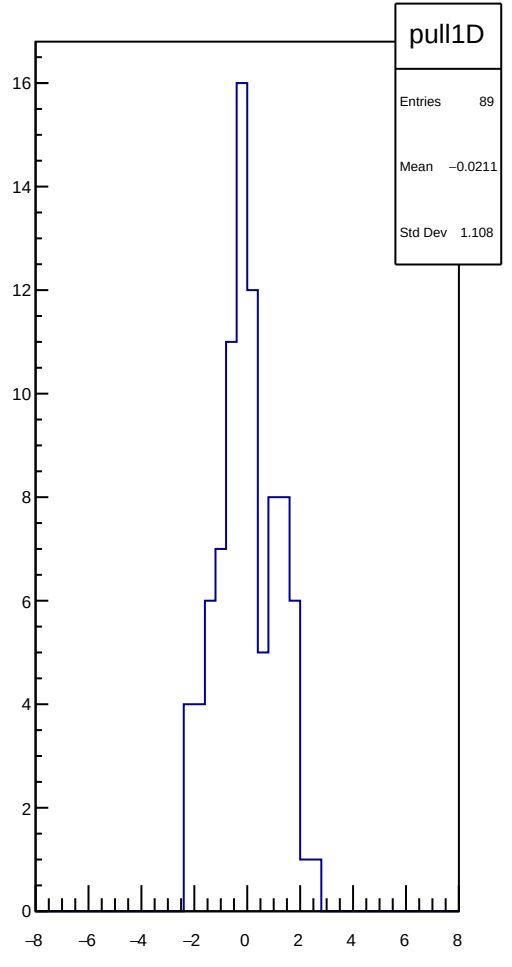

cor_asym_sam2_rms vs run
$\chi^2$ / ndf 2.437e+04 / 88
p0 357.3 ± 0.2689
1100
1000
900
800
700
600
500
400
300

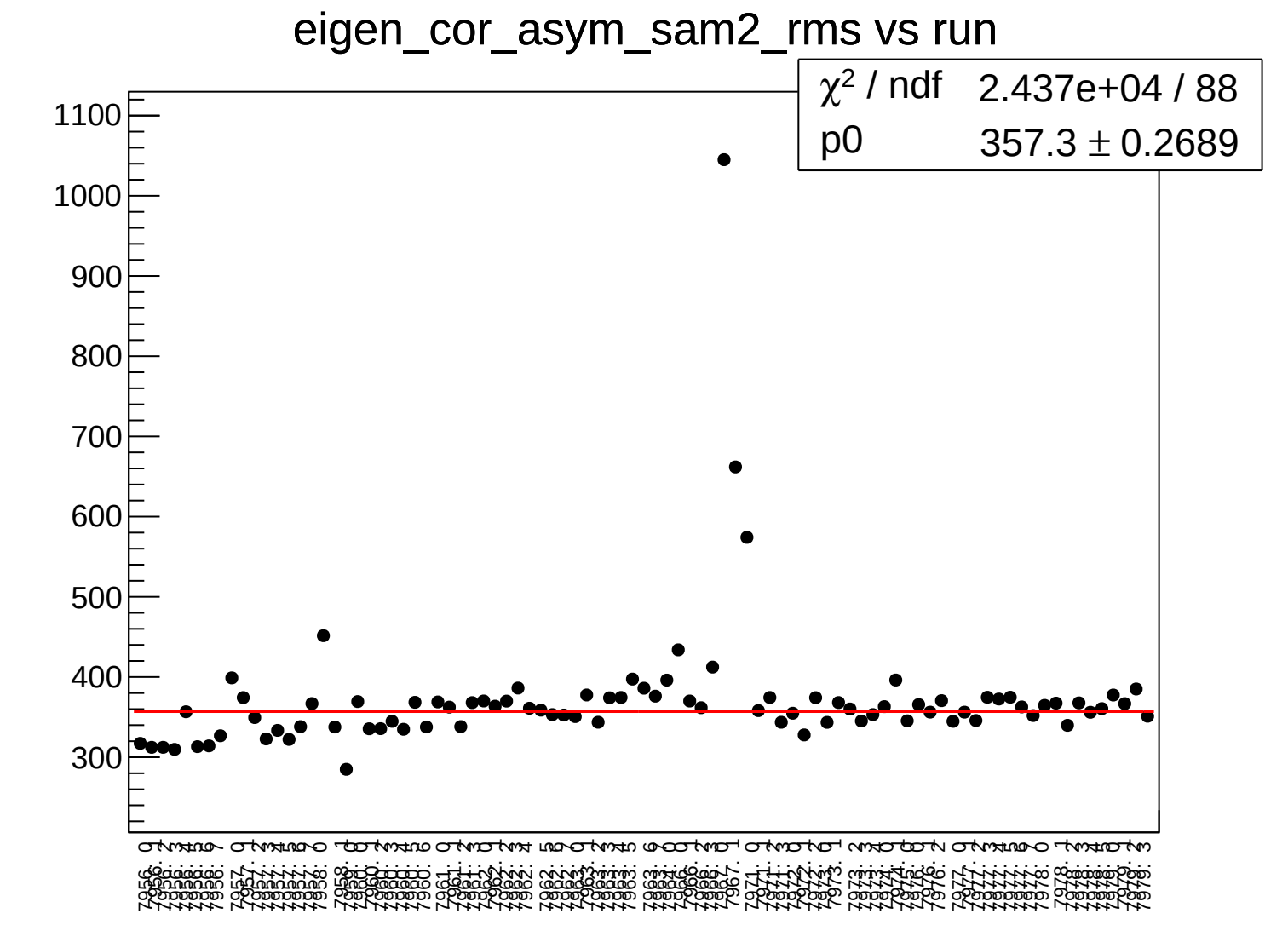

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 113.2 / 88
p0 3314 ± 6023
300
200
100
0
−100
−200
pull
Entries 89
Mean 684.6
Std Dev 0
4
3
2
1
0
−1
−2

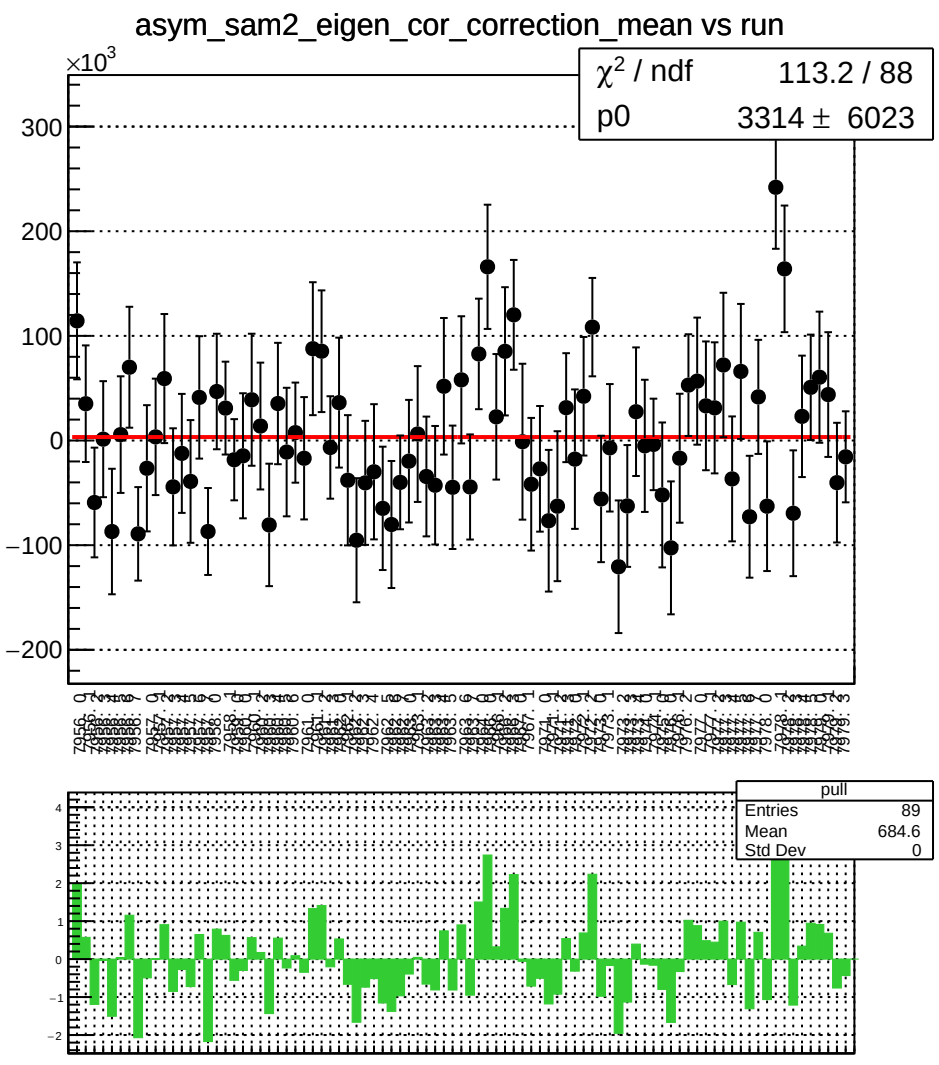

pull1D
Entries 89
Mean 0.006509
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

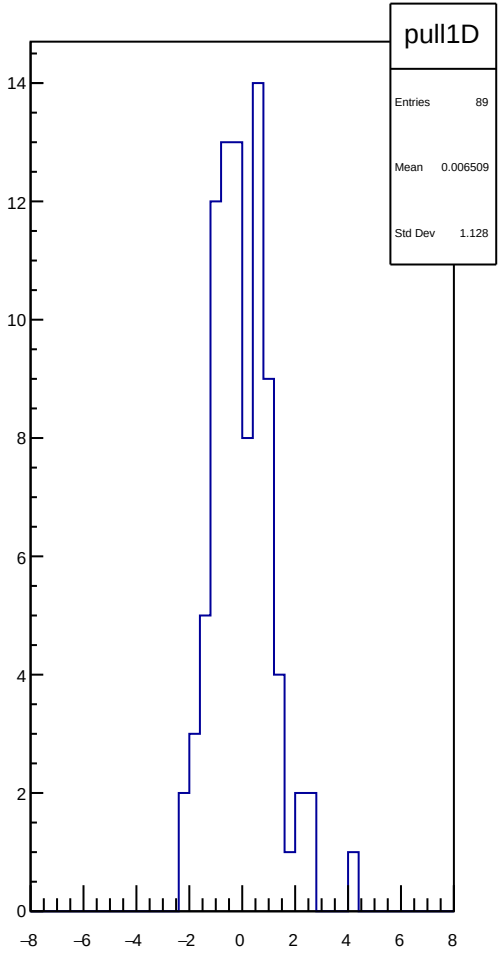

asym_sam2_cor_correction_rms vs run
χ² / ndf 7659 / 88
p0 5687 ± 4.259
7000
6500
6000
5500
5000
4500

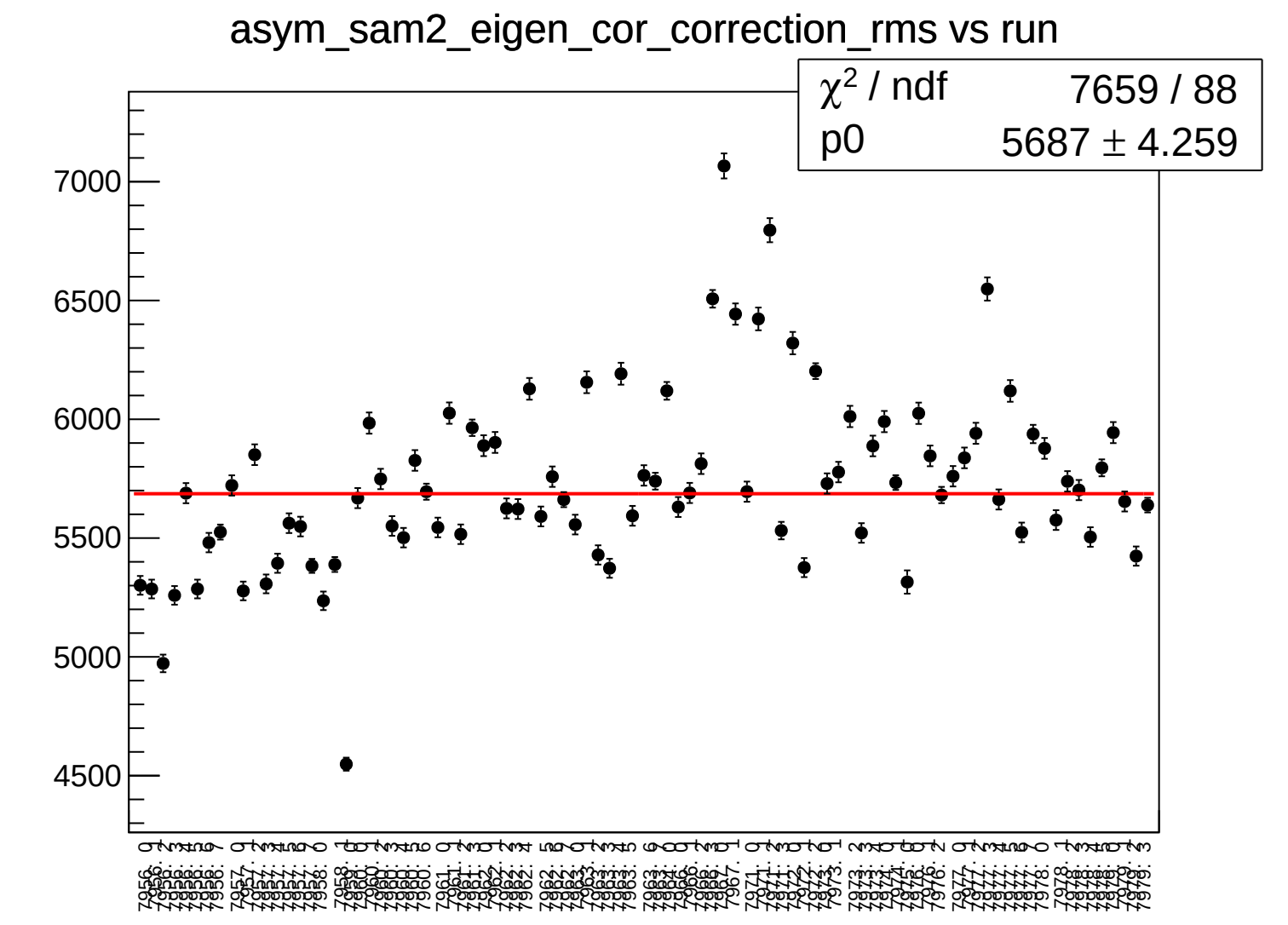

eigen_cor_asym_sam2_mean vs run
$\chi^2$ / ndf 109.4 / 88
p0 617.7 ± 380.2
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 63.31
Std Dev 0
2
1
0
−1
−2

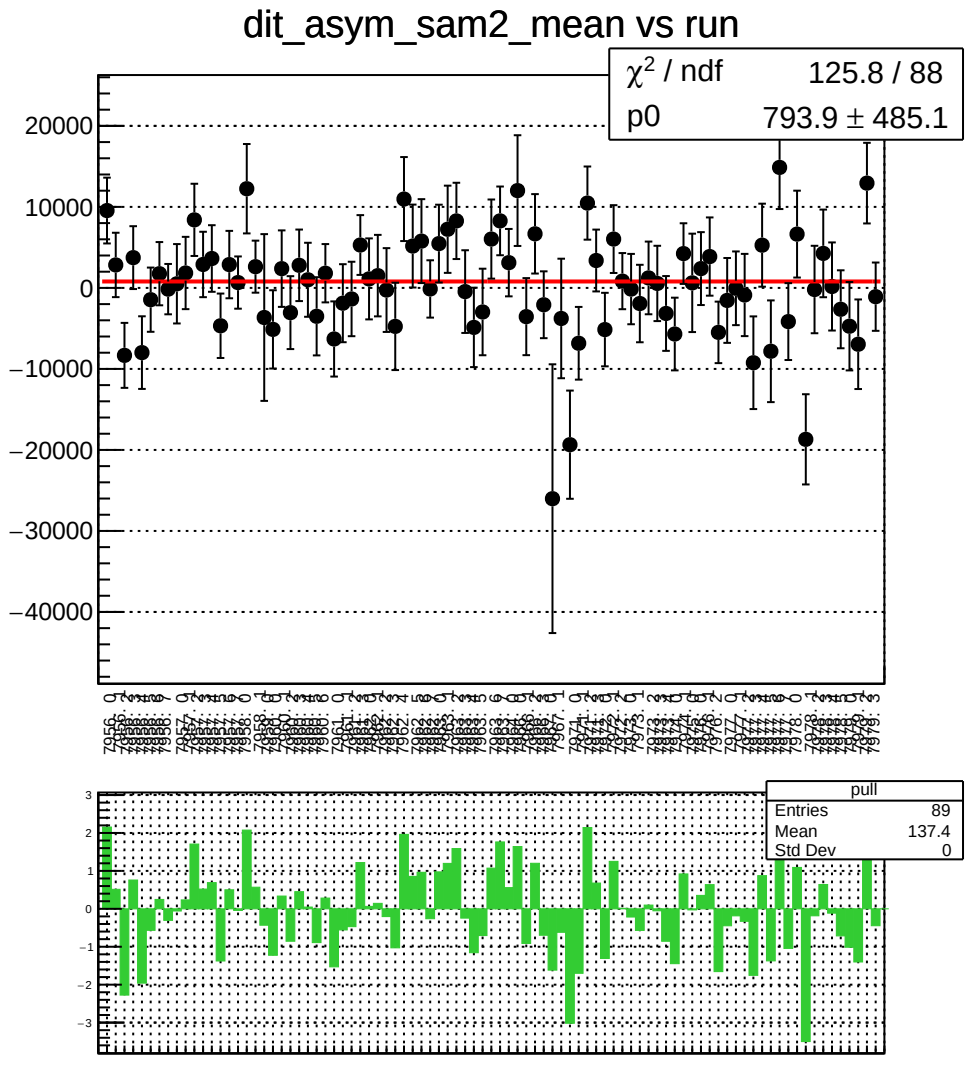

pull1D
Entries 89
Mean −0.0211
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

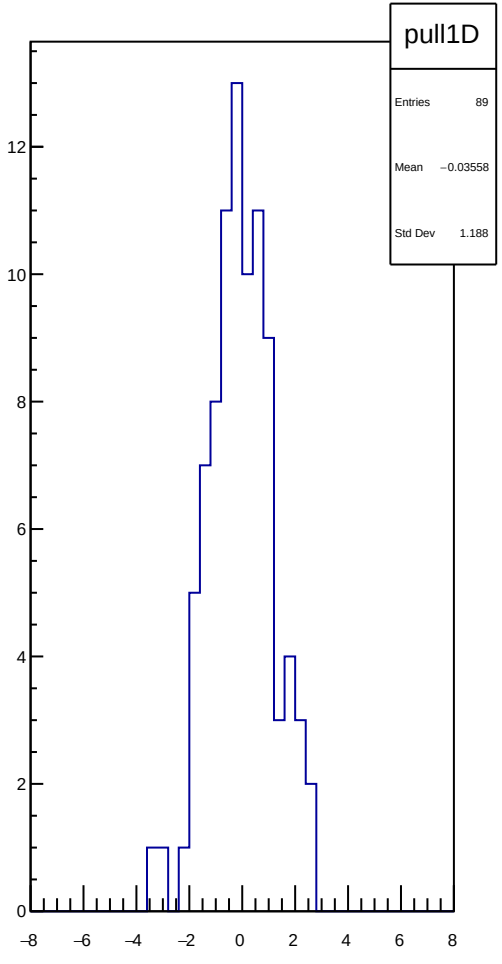

eigen_cor_asym_sam2_rms vs run
χ² / ndf 2.437e+04 / 88
p0 357.3 ± 0.2689
1100
1000
900
800
700
600
500
400
300

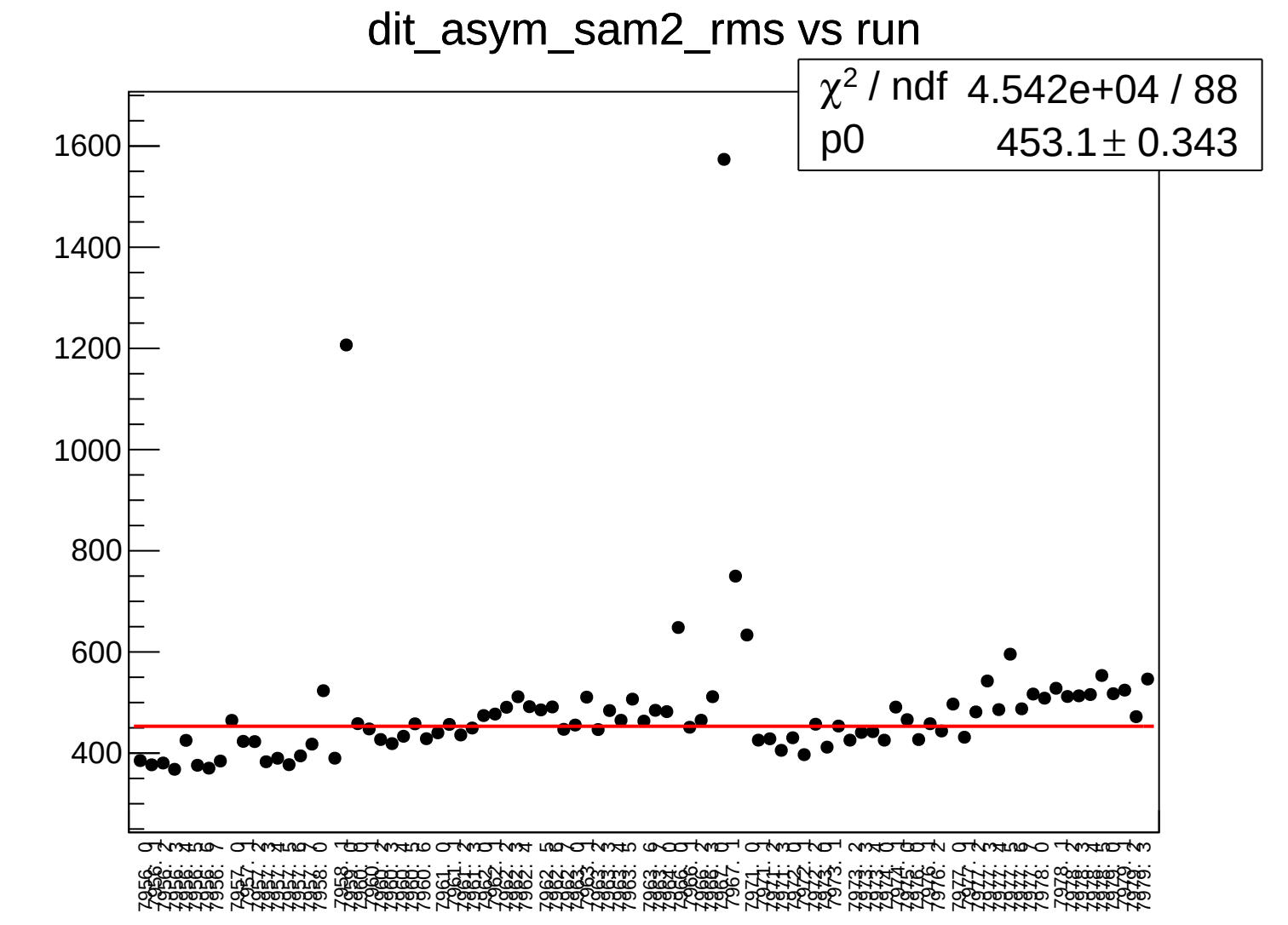

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 113.2 / 88
p0 3314 ± 6023
300
200
100
0
−100
−200
pull
Entries 89
Mean 684.6
Std Dev 0
4
3
2
1
0
−1
−2

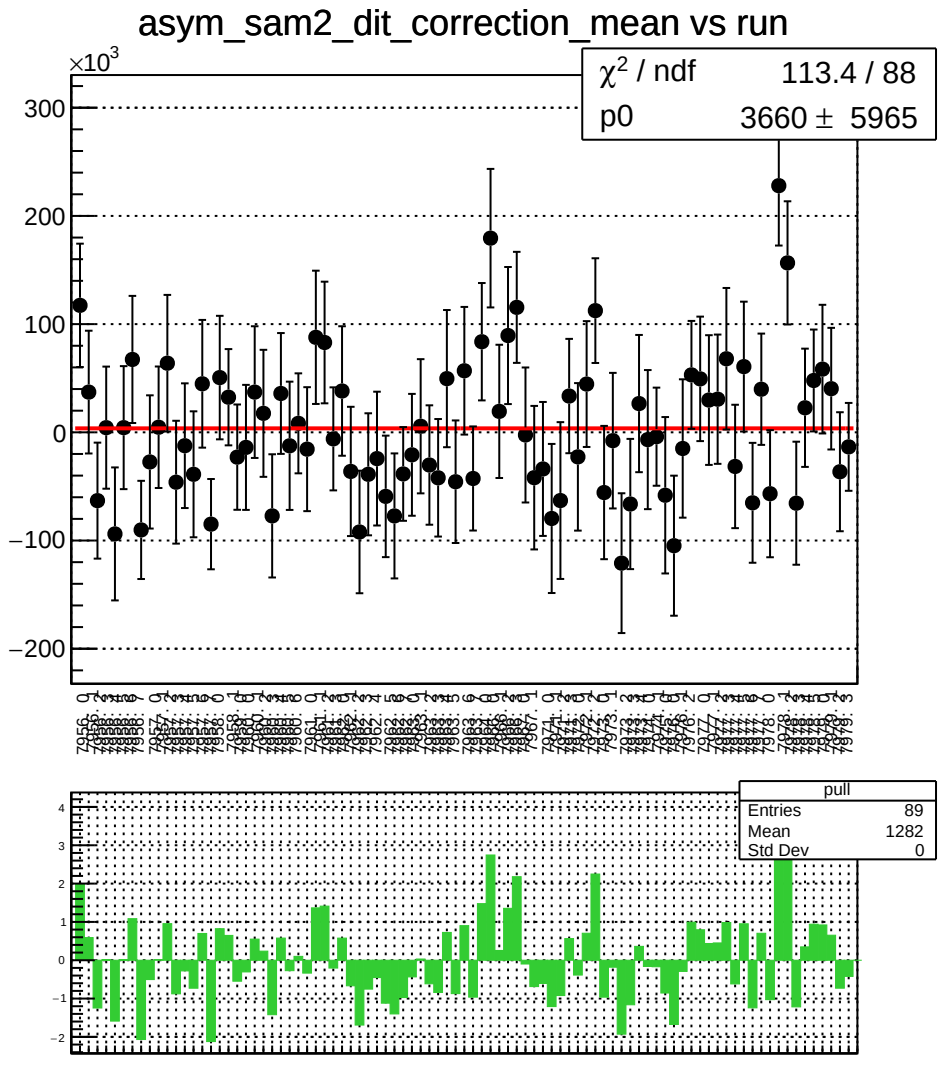

pull1D
Entries 89
Mean 0.006509
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

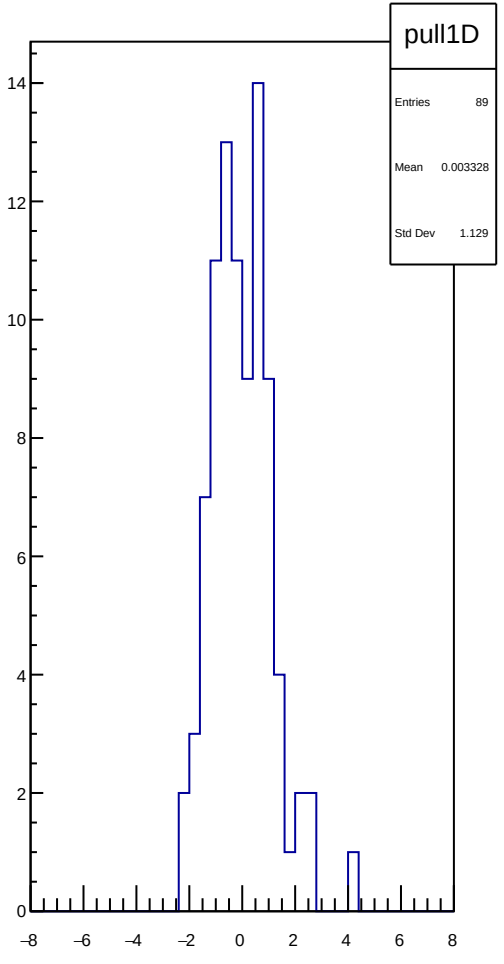

asym_sam2_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 7659 / 88
p0 5687 ± 4.259
7000
6500
6000
5500
5000
4500

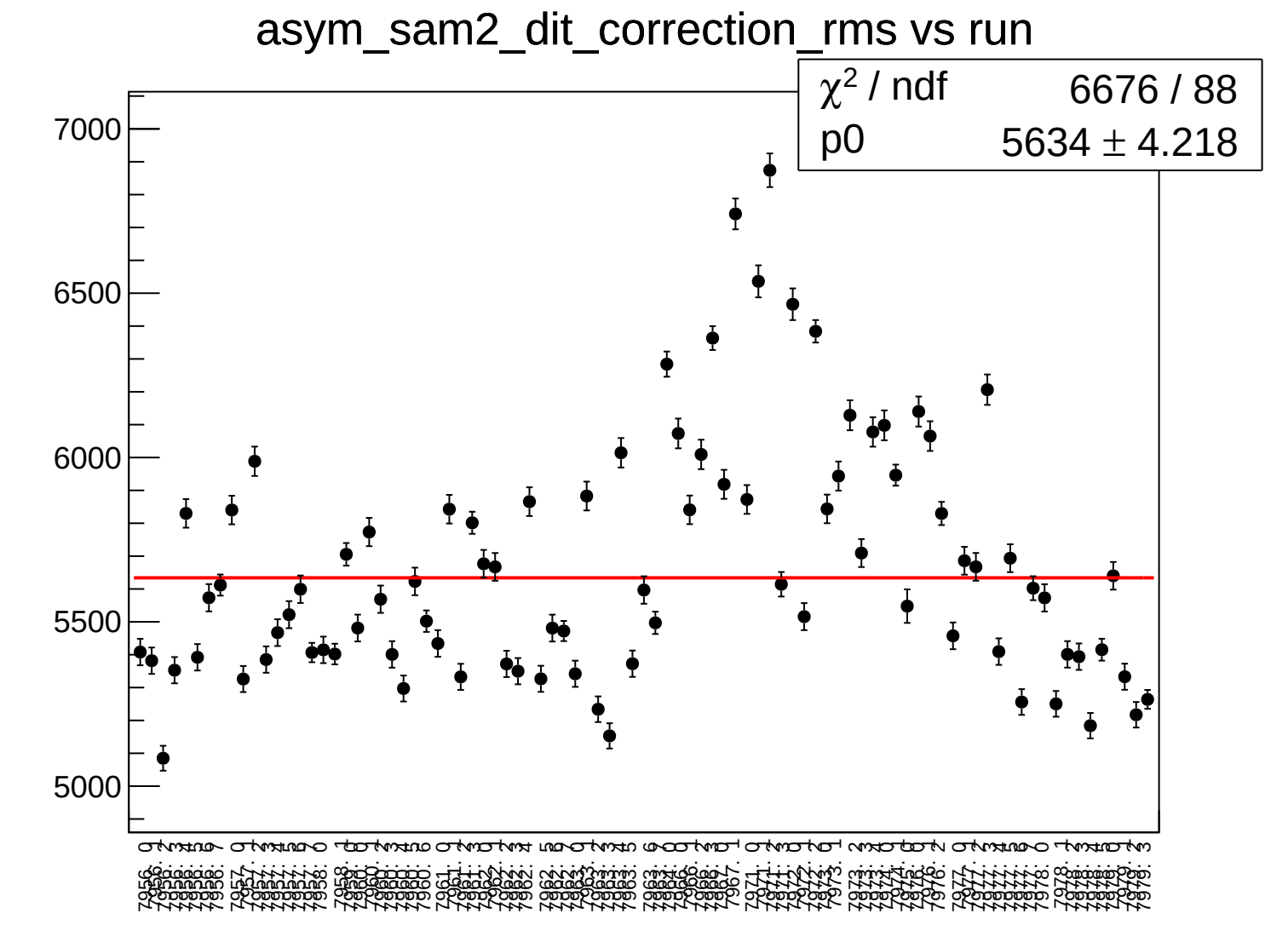

dit_asym_sam2_mean vs run
χ² / ndf 125.8 / 88
p0 793.9 ± 485.1
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 137.4
Std Dev 0
3
2
1
0
−1
−2
−3

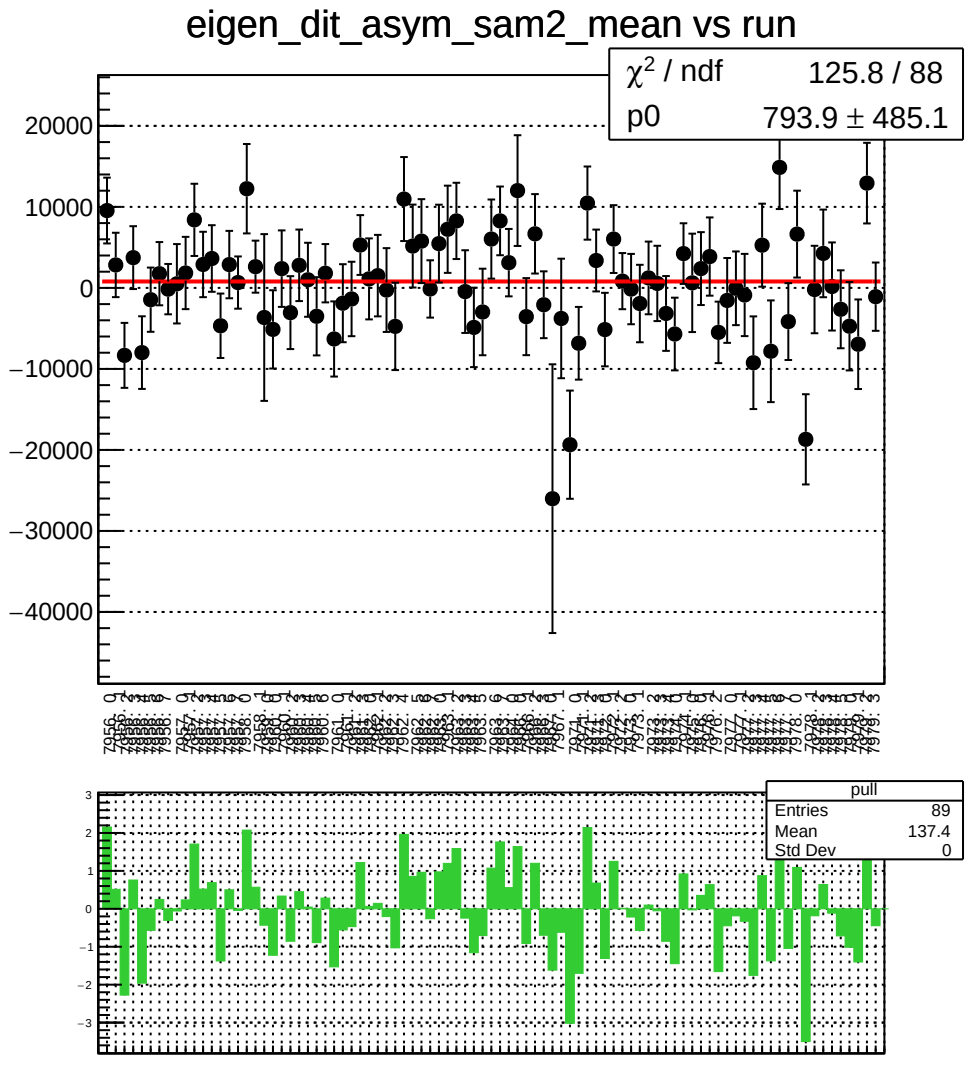

pull1D
Entries 89
Mean −0.03558
Std Dev 1.188
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

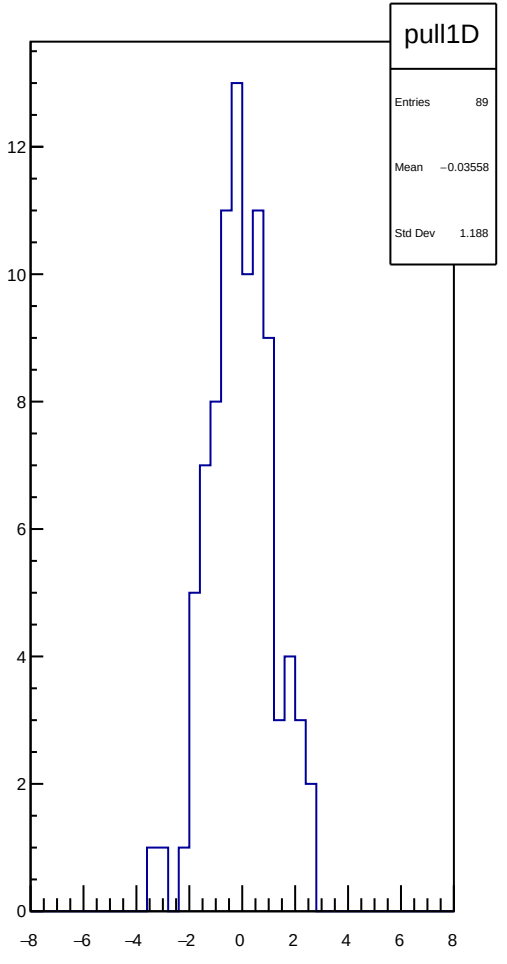

dit_asym_sam2_rms vs run
$\chi^2$ / ndf 4.542e+04 / 88
p0 453.1 ± 0.343
1600
1400
1200
1000
800
600
400

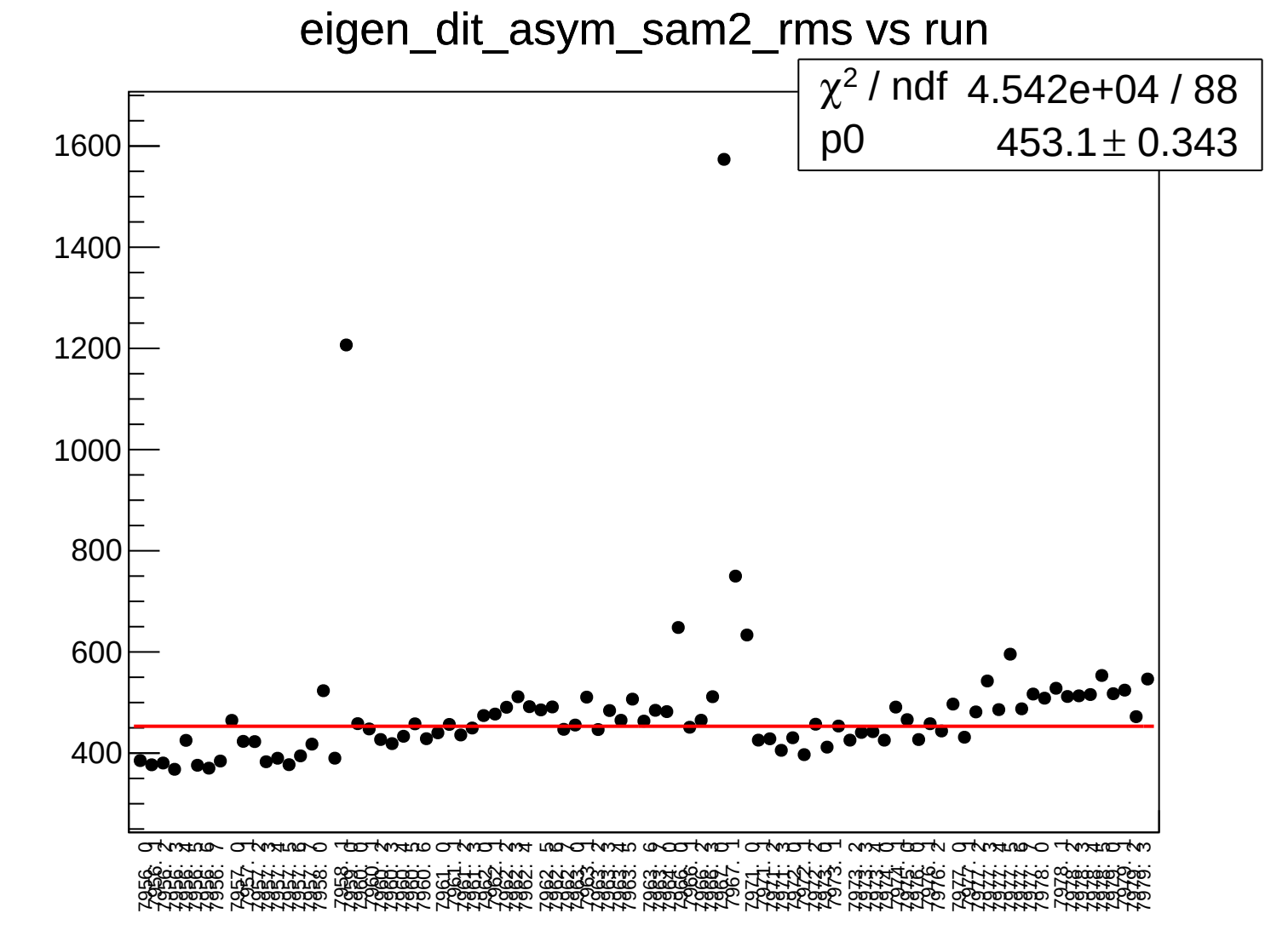

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 113.4 / 88
p0 3660 ± 5965
300
200
100
0
−100
−200
pull
Entries 89
Mean 1282
Std Dev 0
4
3
2
1
0
−1
−2

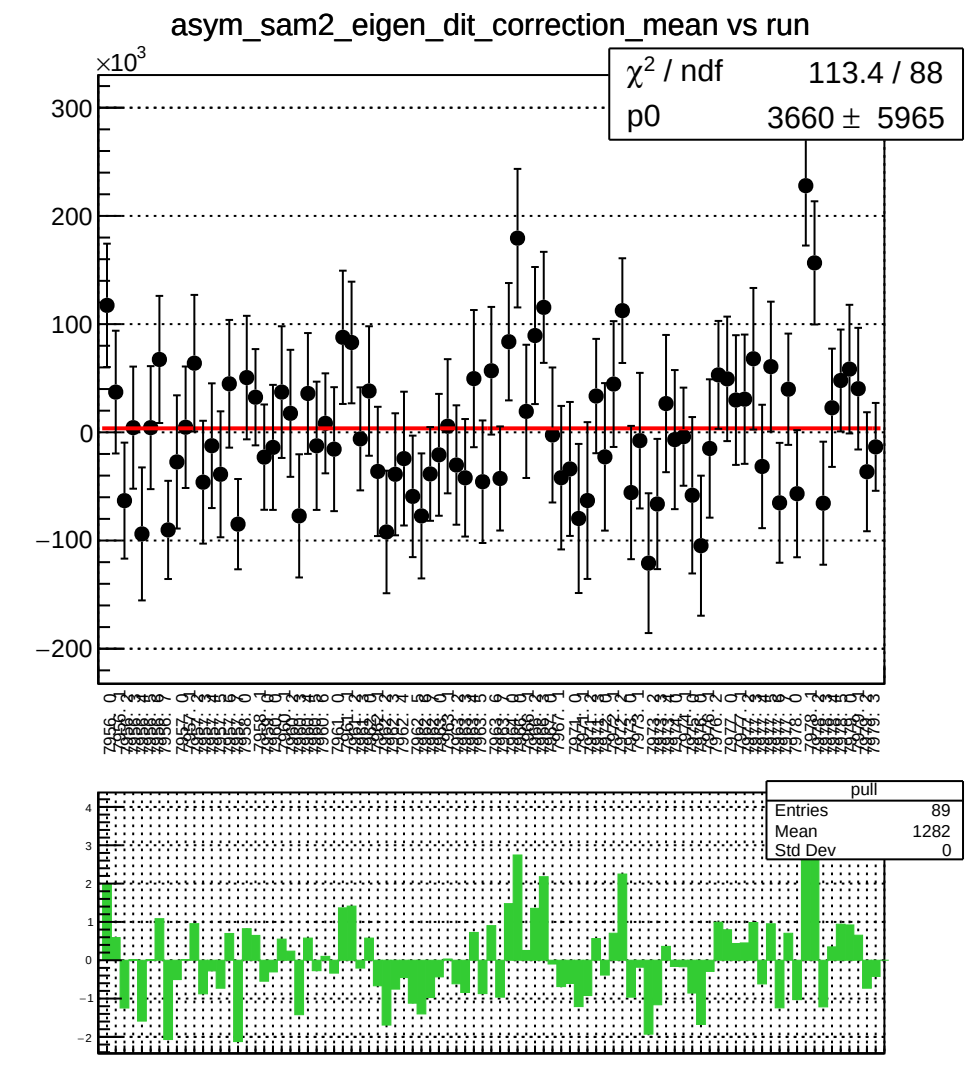

pull1D
Entries 89
Mean 0.003328
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

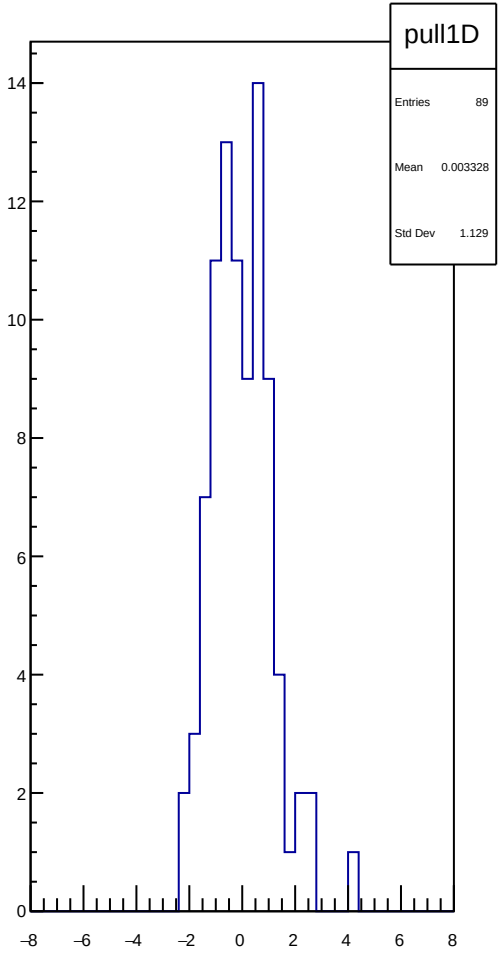

asym_sam2_dit_correction_rms vs run
$\chi^2$ / ndf 6676 / 88
p0 5634 ± 4.218
7000
6500
6000
5500
5000

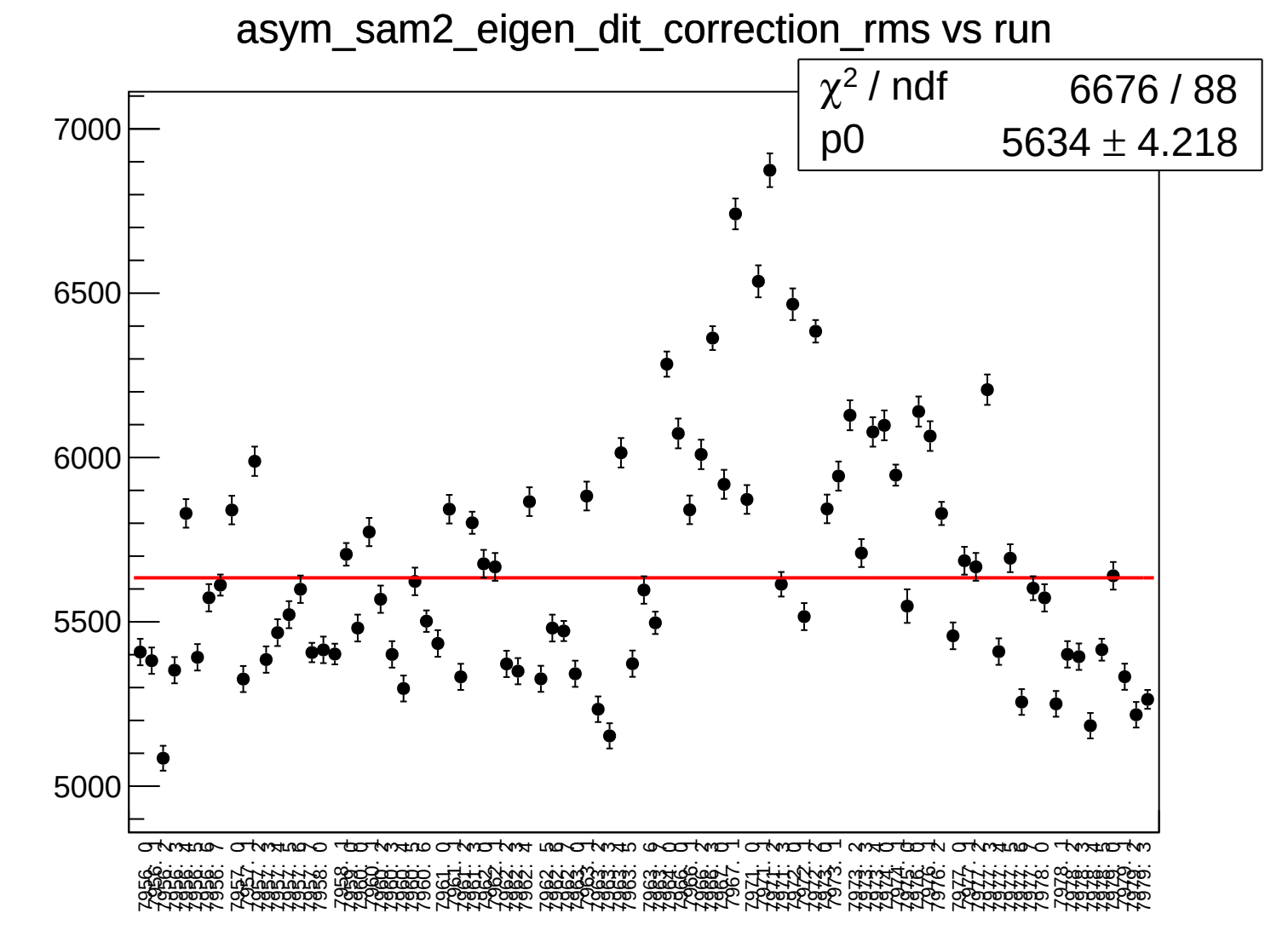

eigen_dit_asym_sam2_mean vs run
χ² / ndf 125.8 / 88
p0 793.9 ± 485.1
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 137.4
Std Dev 0
3
2
1
0
−1
−2
−3

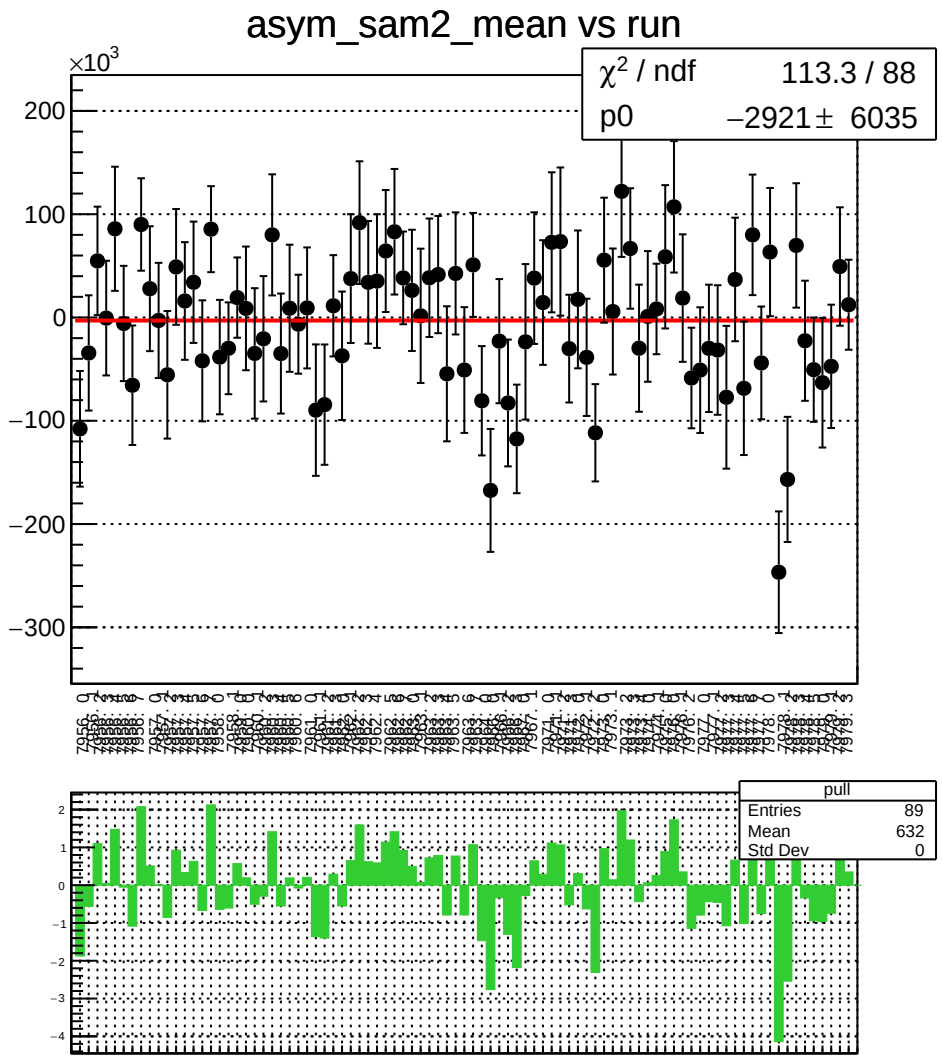

pull1D
Entries 89
Mean −0.03558
Std Dev 1.188
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

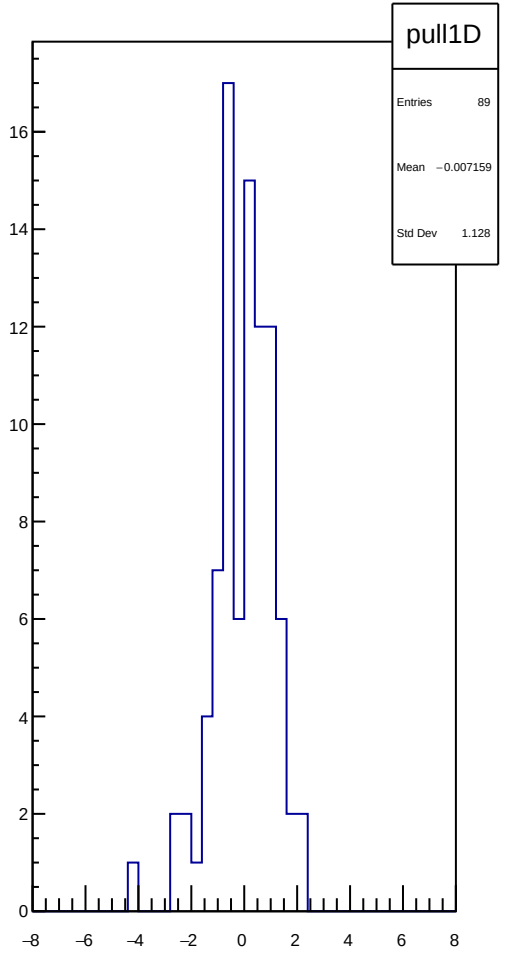

eigen_dit_asym_sam2_rms vs run
$\chi^2$ / ndf 4.542e+04 / 88
p0 453.1 ± 0.343
1600
1400
1200
1000
800
600
400

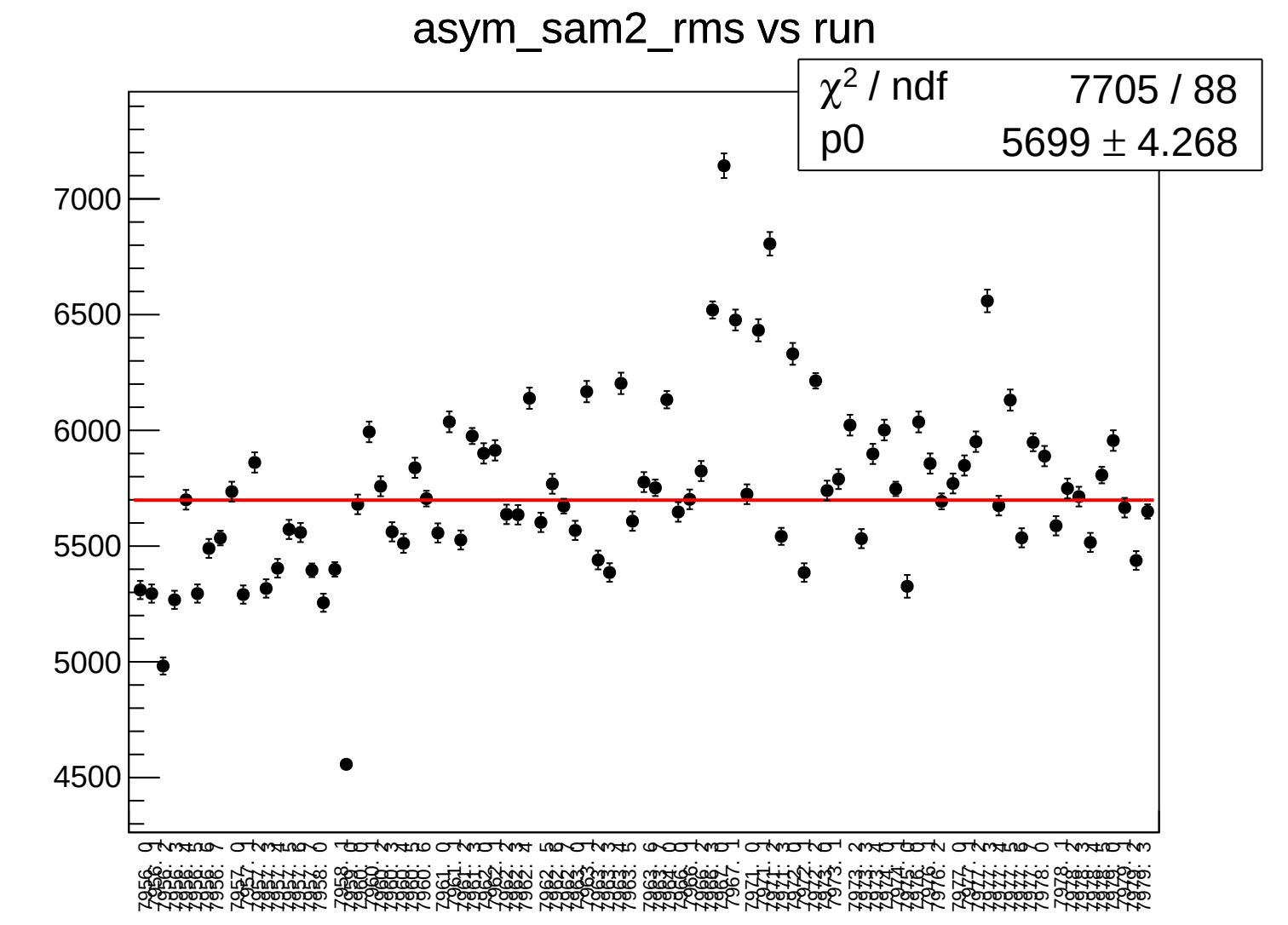

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 113.4 / 88
p0 3660 ± 5965
300
200
100
0
−100
−200
pull
Entries 89
Mean 1282
Std Dev 0
4
3
2
1
0
−1
−2

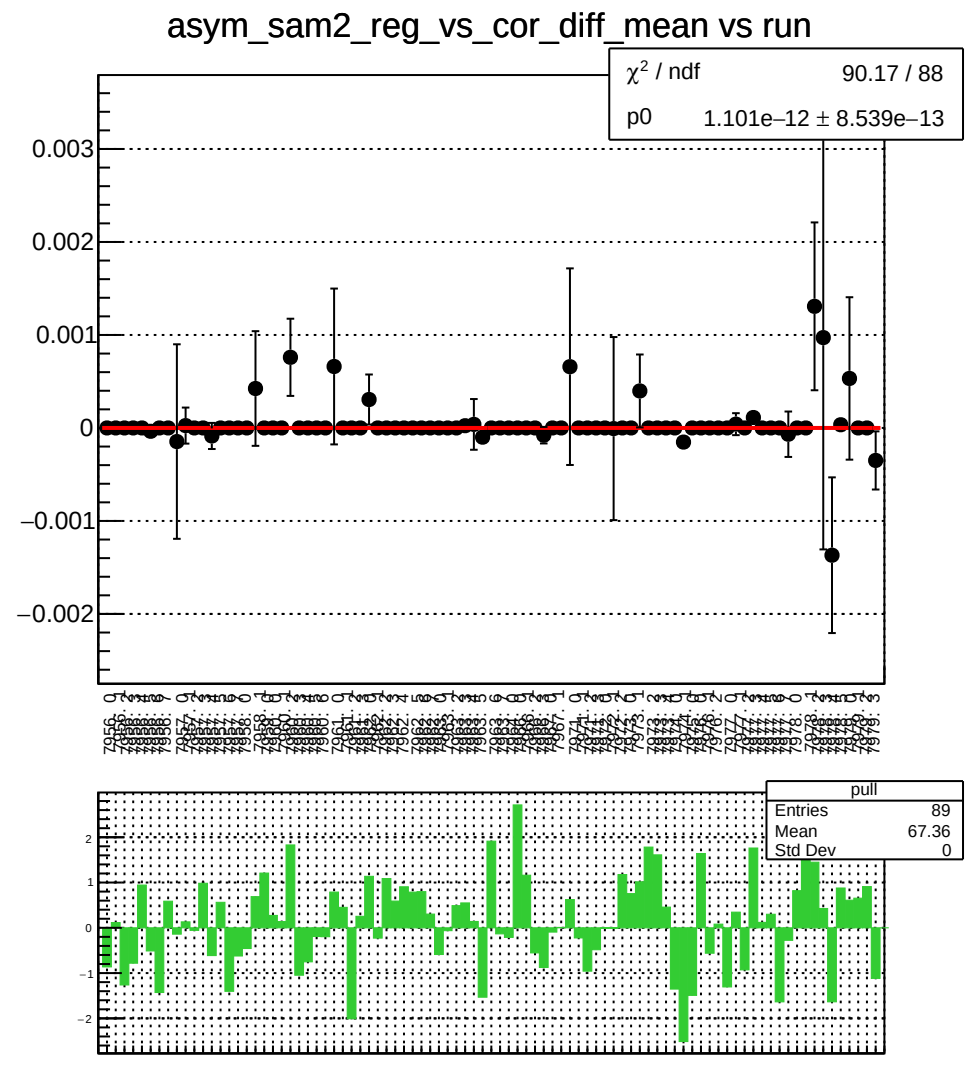

pull1D
Entries 89
Mean 0.003328
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

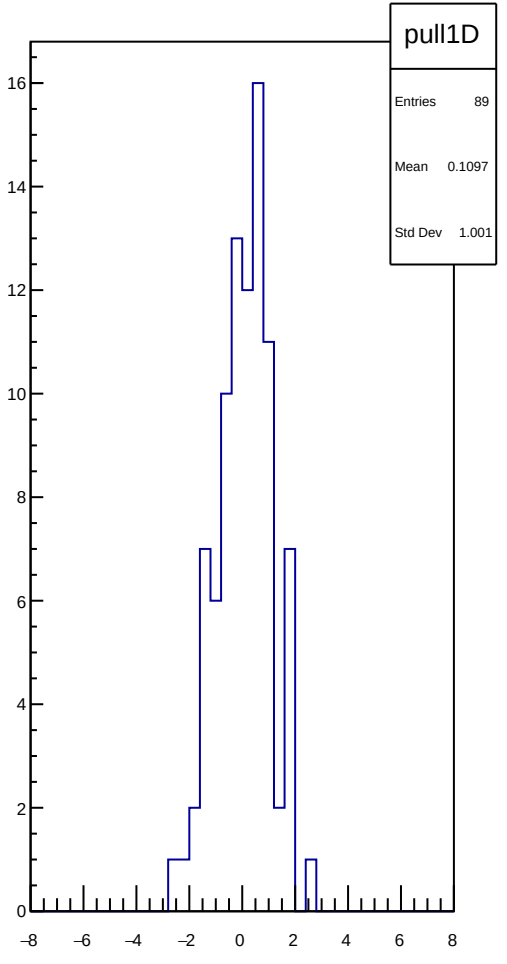

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 6676 / 88
p0 5634 ± 4.218
7000
6500
6000
5500
5000

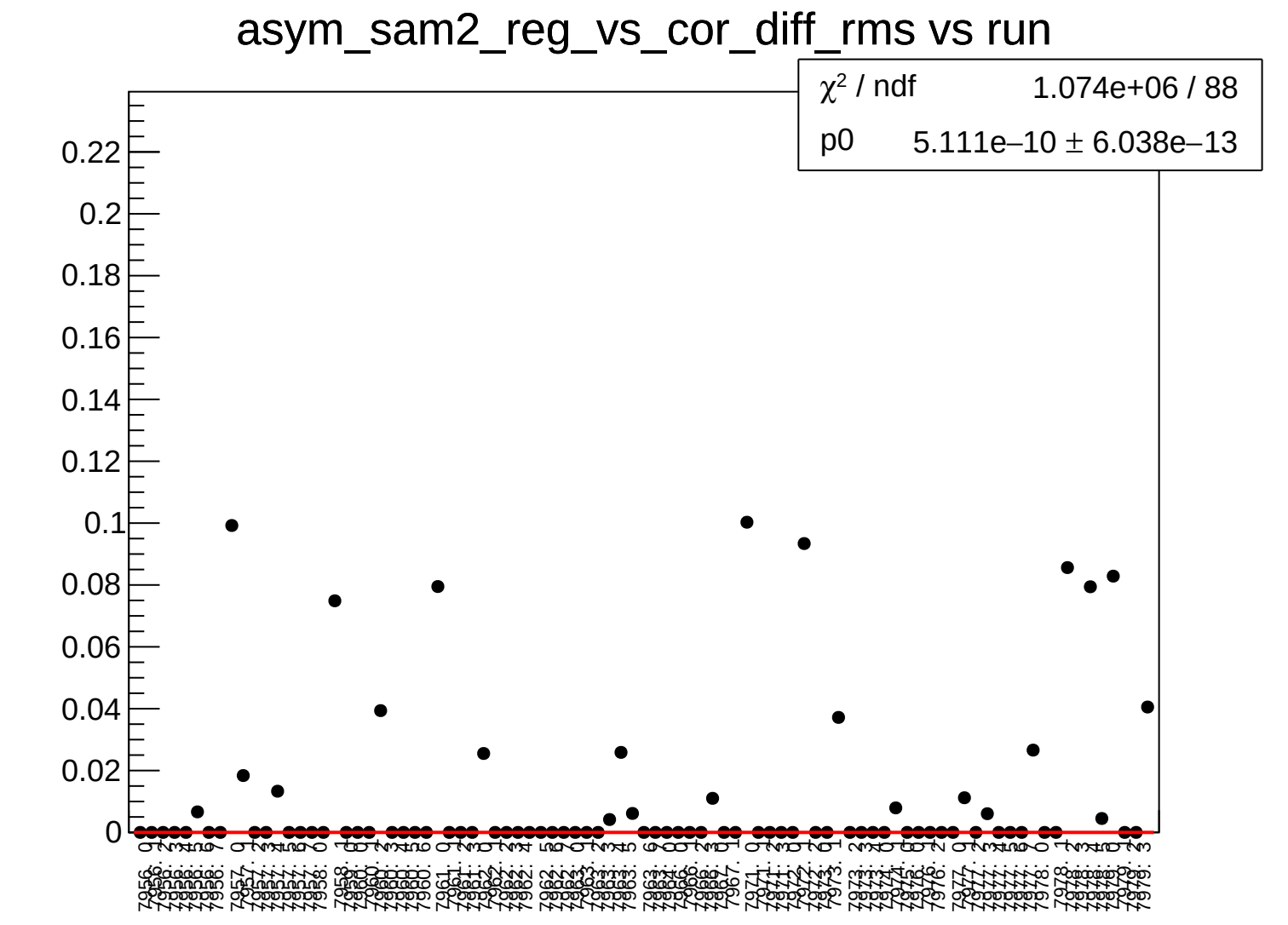

asym_sam2_mean vs run
×10^3
χ² / ndf 113.3 / 88
p0 −2921 ± 6035
200
100
0
−100
−200
−300
pull
Entries 89
Mean 632
Std Dev 0
2
1
0
−1
−2
−3
−4

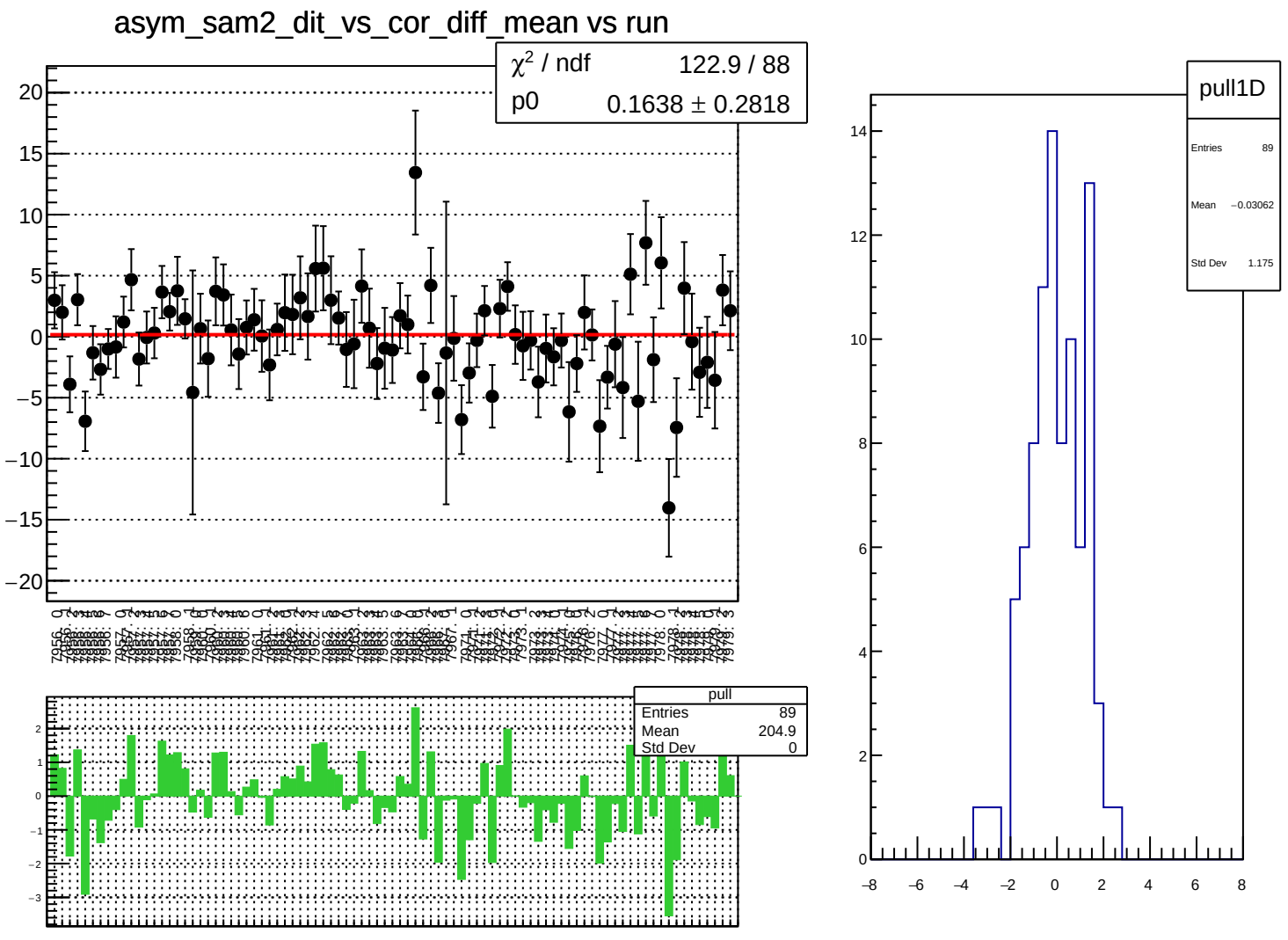

pull1D
Entries 89
Mean −0.007159
Std Dev 1.128
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

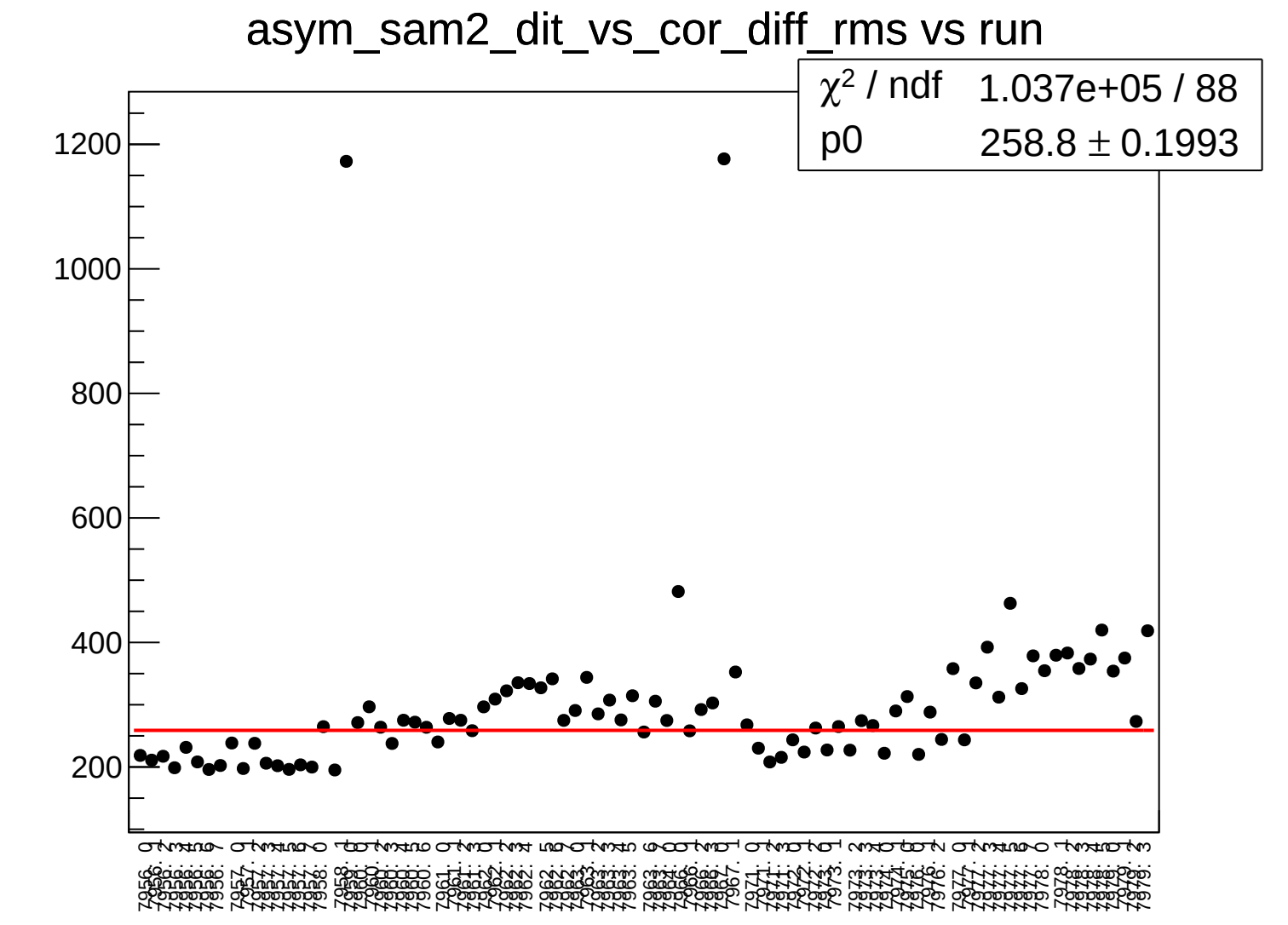

asym_sam2_rms vs run
$\chi^2$ / ndf 7705 / 88
p0 5699 ± 4.268
7000
6500
6000
5500
5000
4500

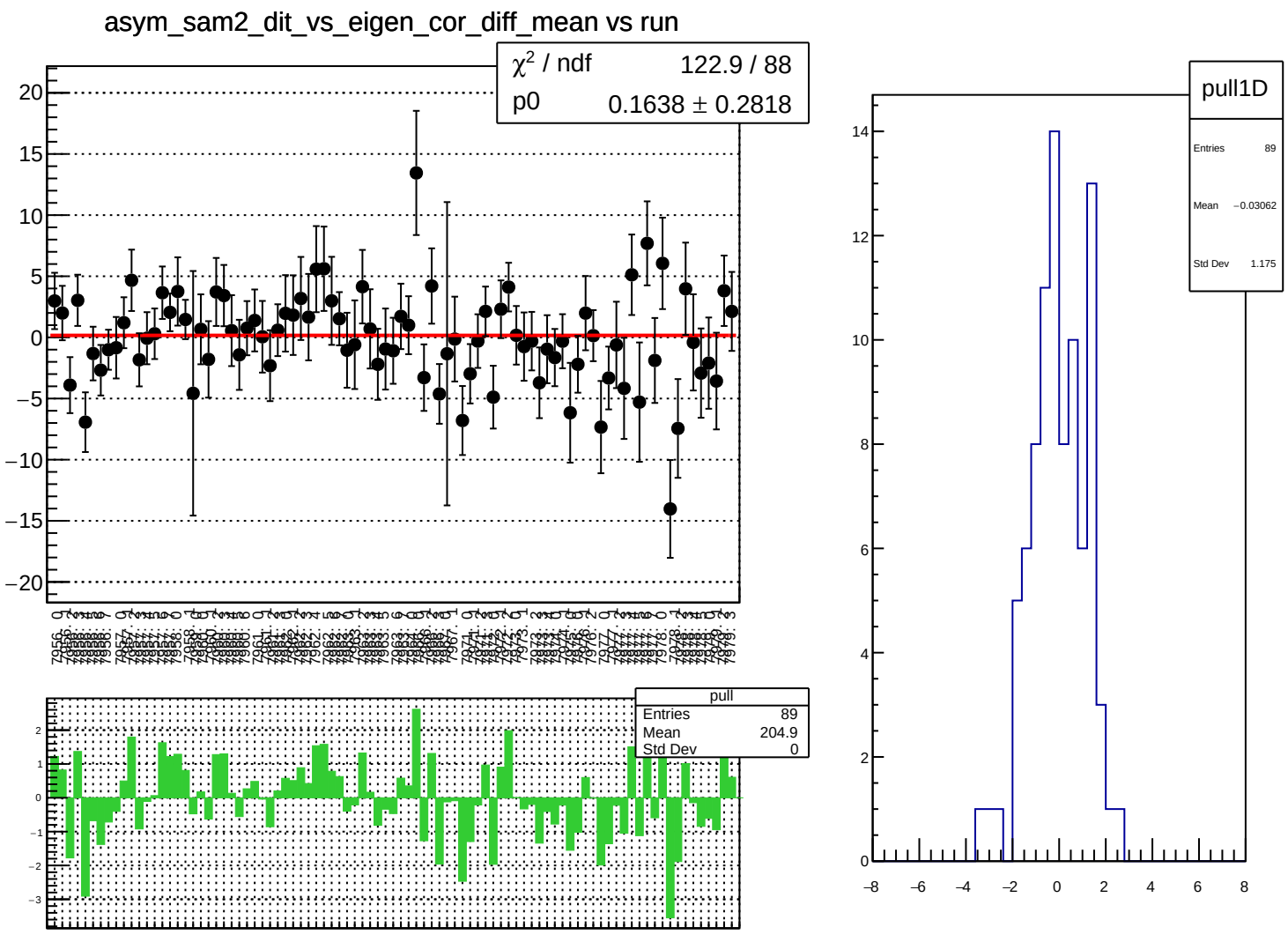

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 90.17 / 88
p0 1.101e−12 ± 8.539e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 89
Mean 67.36
Std Dev 0
2
1
0
−1
−2

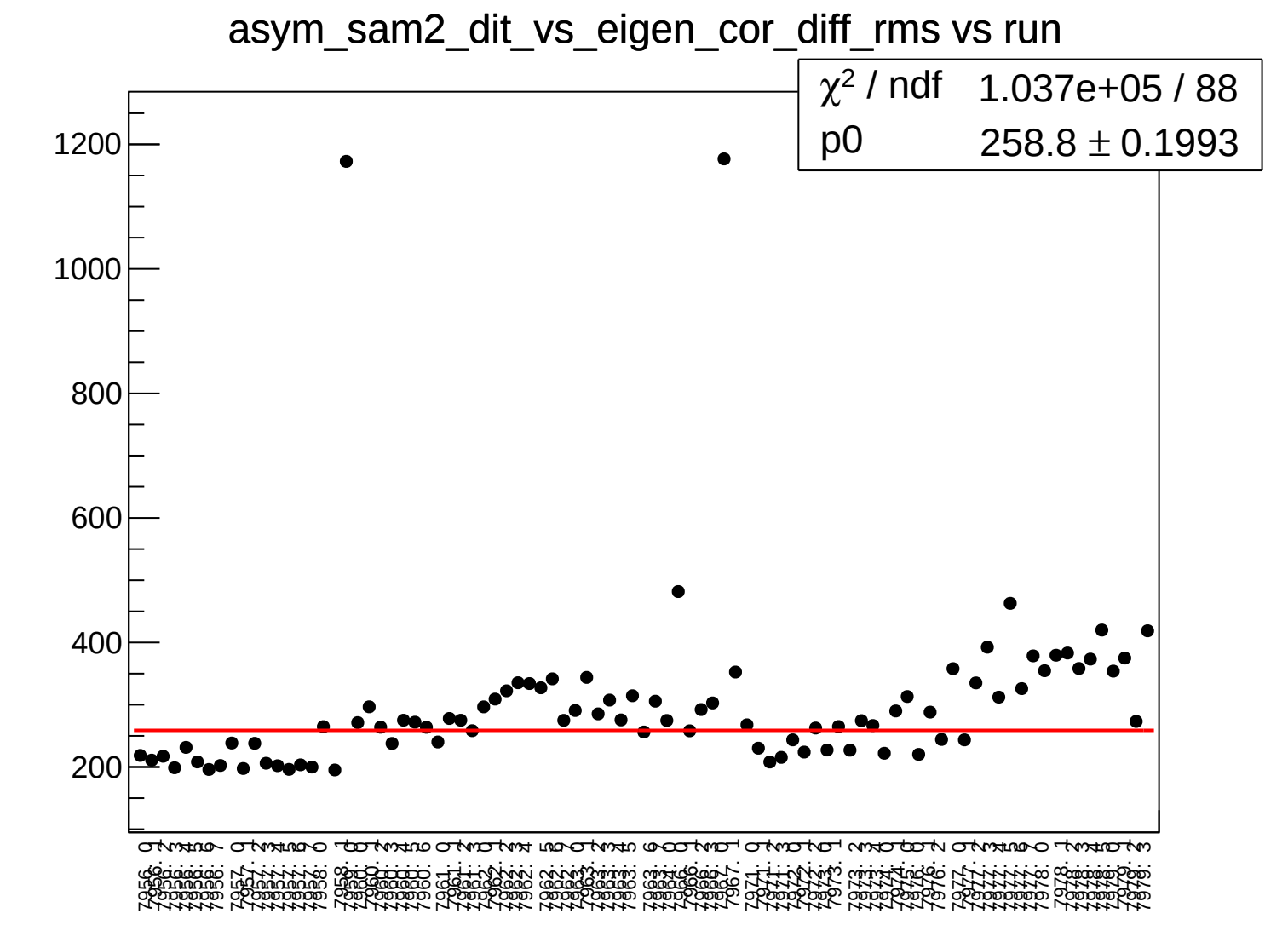

pull1D
Entries 89
Mean 0.1097
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

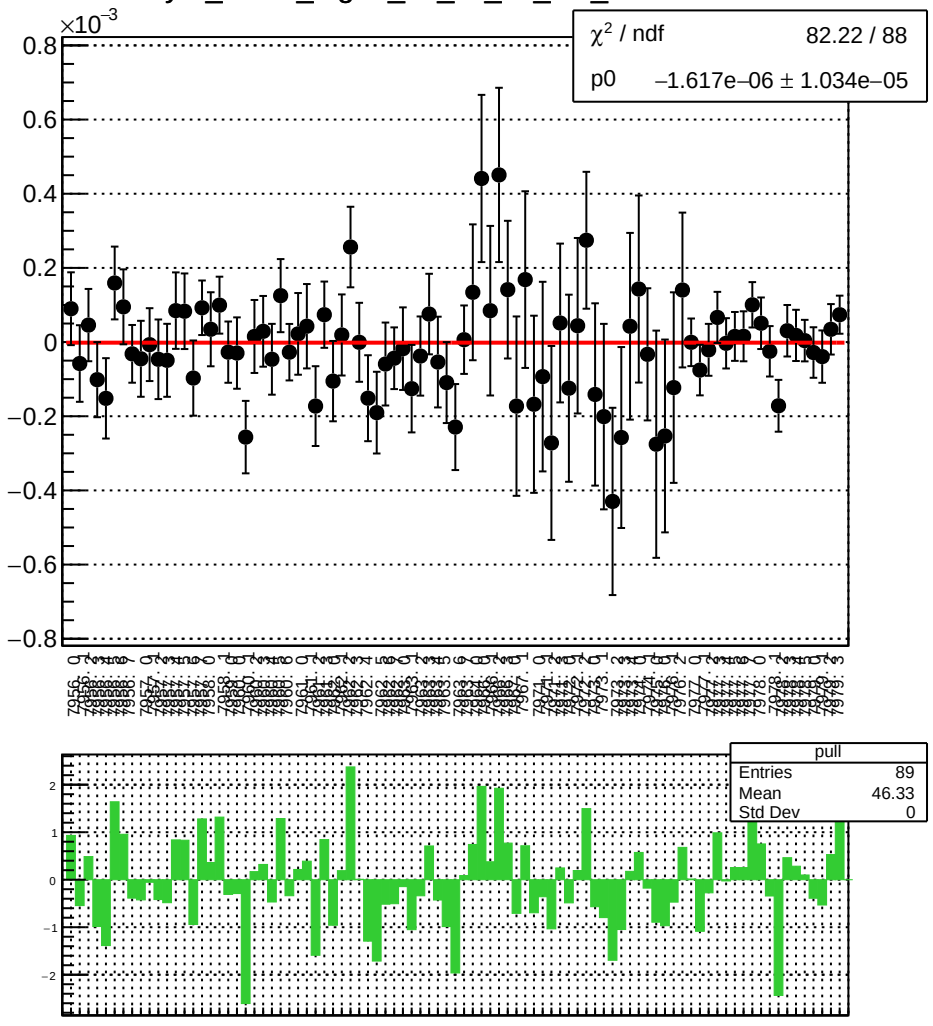

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.074e+06 / 88
p0 5.111e−10 ± 6.038e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

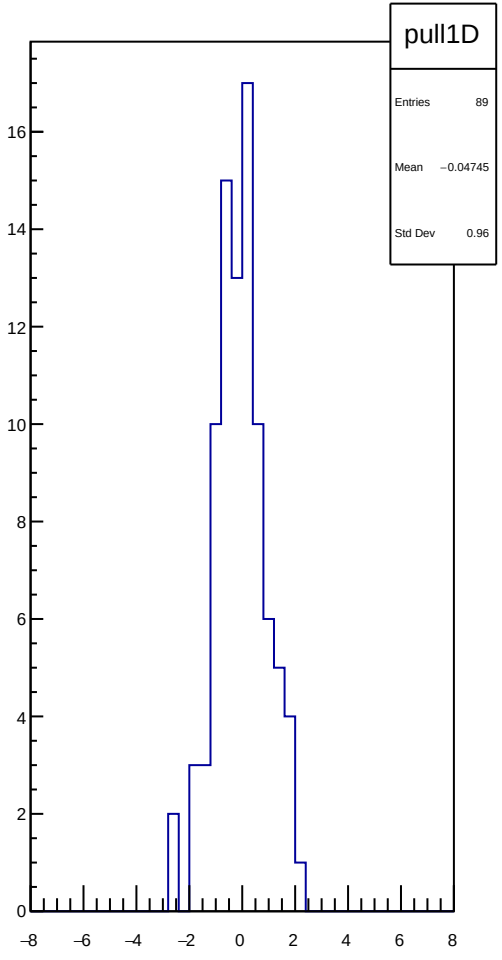

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 122.9 / 88
p0 0.1638 ± 0.2818
pull
Entries 89
Mean 204.9
Std Dev 0
pull1D
Entries 89
Mean −0.03062
Std Dev 1.175

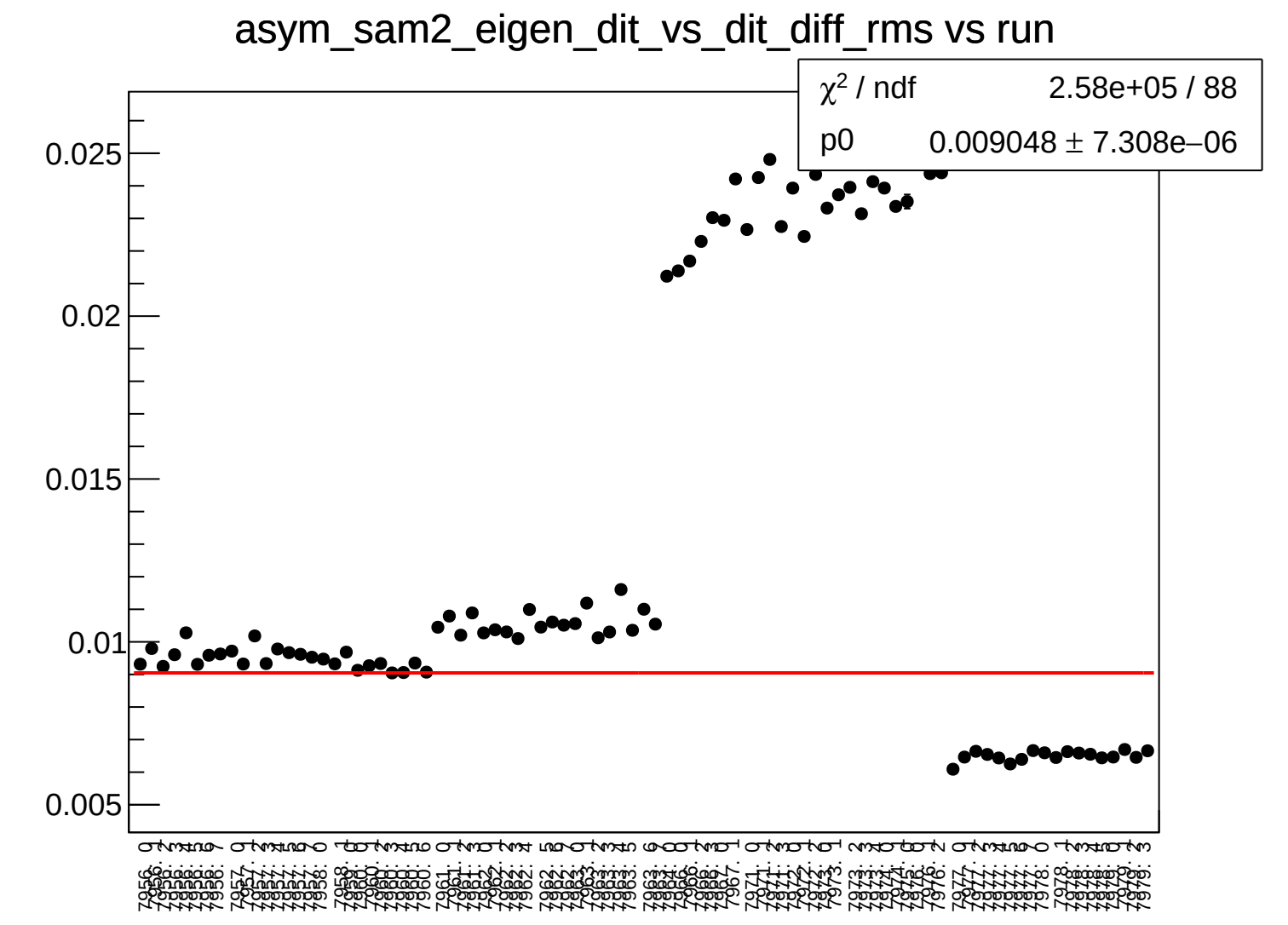

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.037e+05 / 88
p0 258.8 ± 0.1993
1200
1000
800
600
400
200

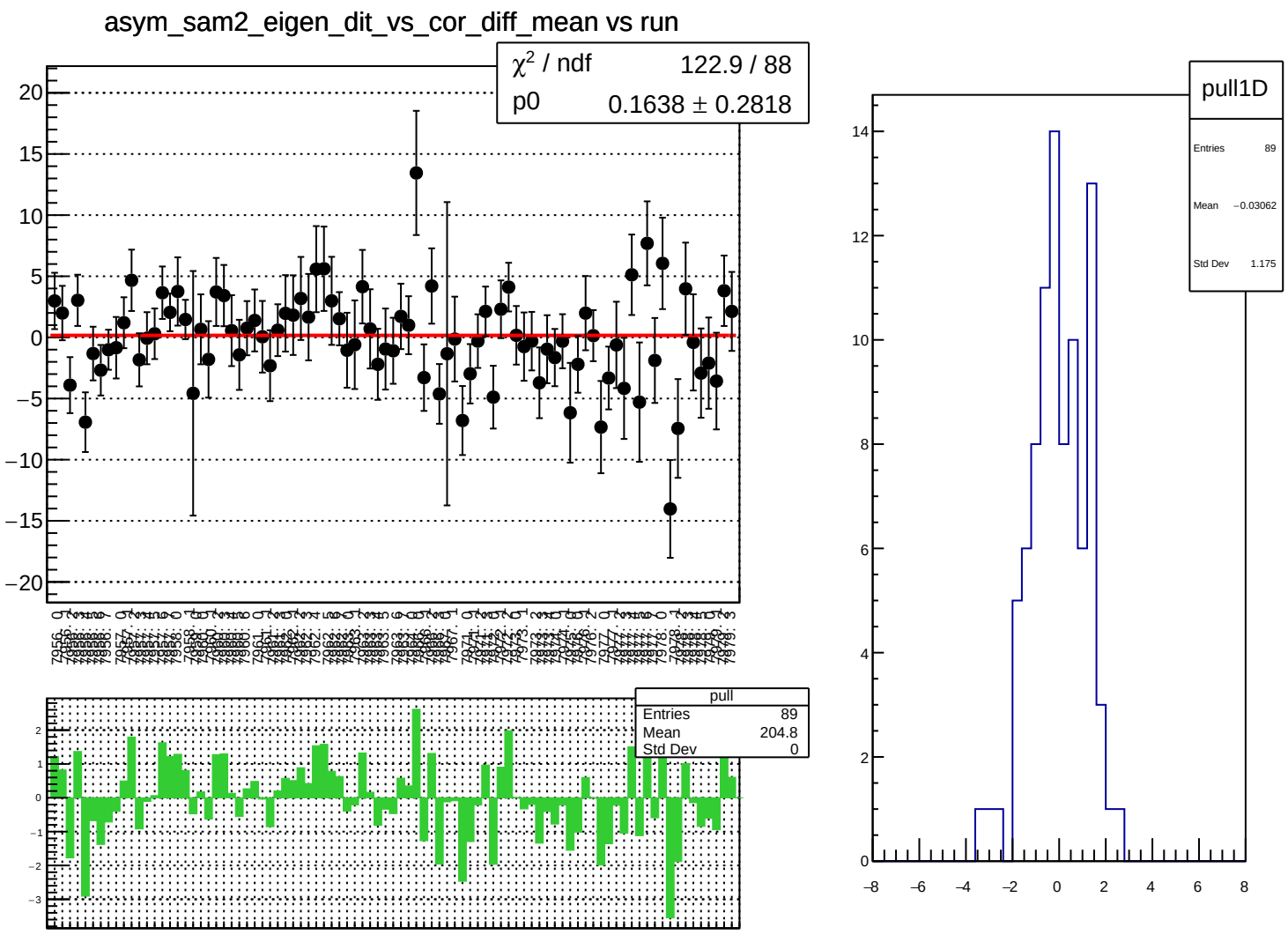

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.9 / 88
p0 0.1638 ± 0.2818
pull
Entries 89
Mean 204.9
Std Dev 0
pull1D
Entries 89
Mean −0.03062
Std Dev 1.175

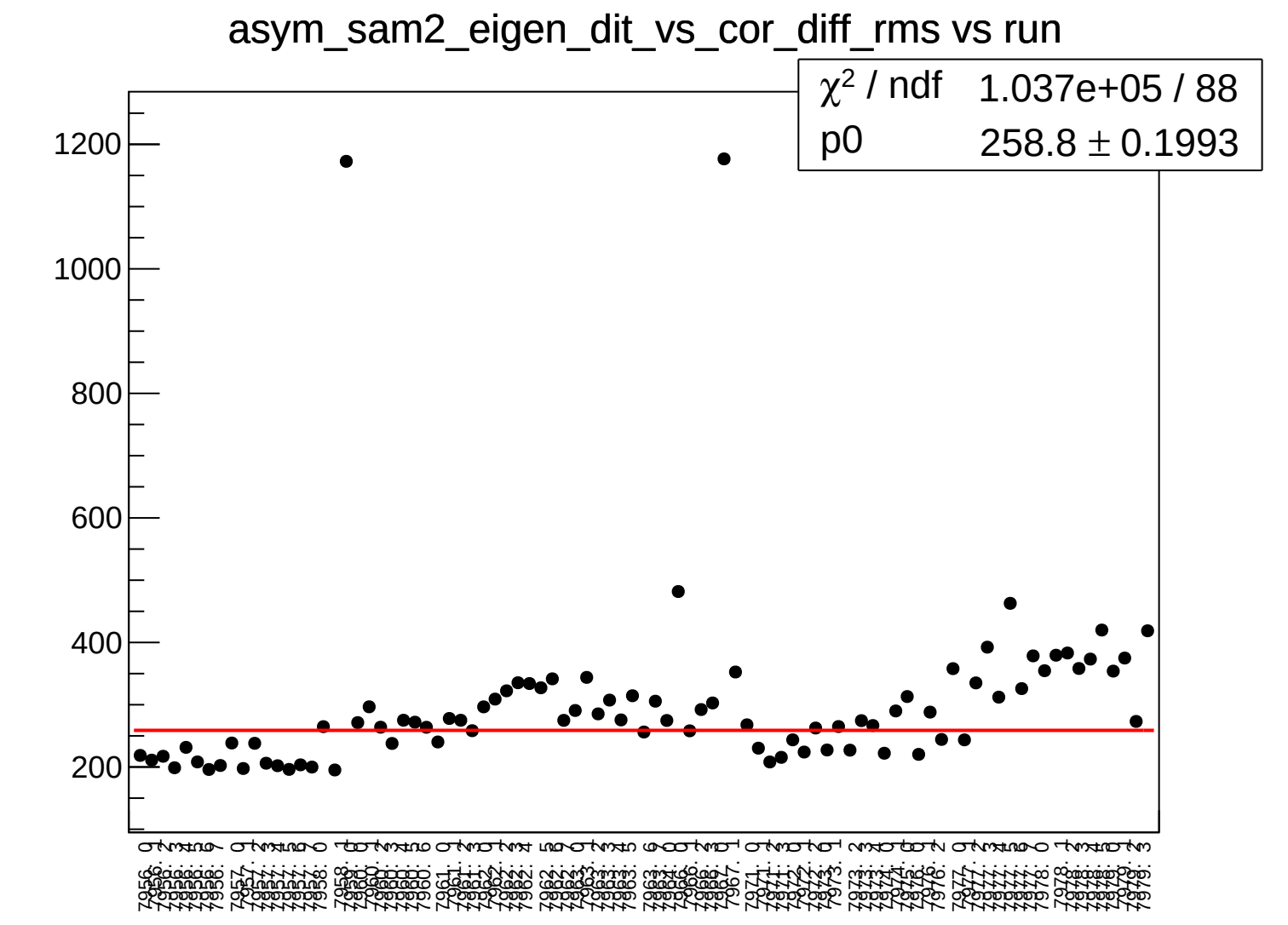

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.037e+05 / 88
p0 258.8 ± 0.1993
1200
1000
800
600
400
200

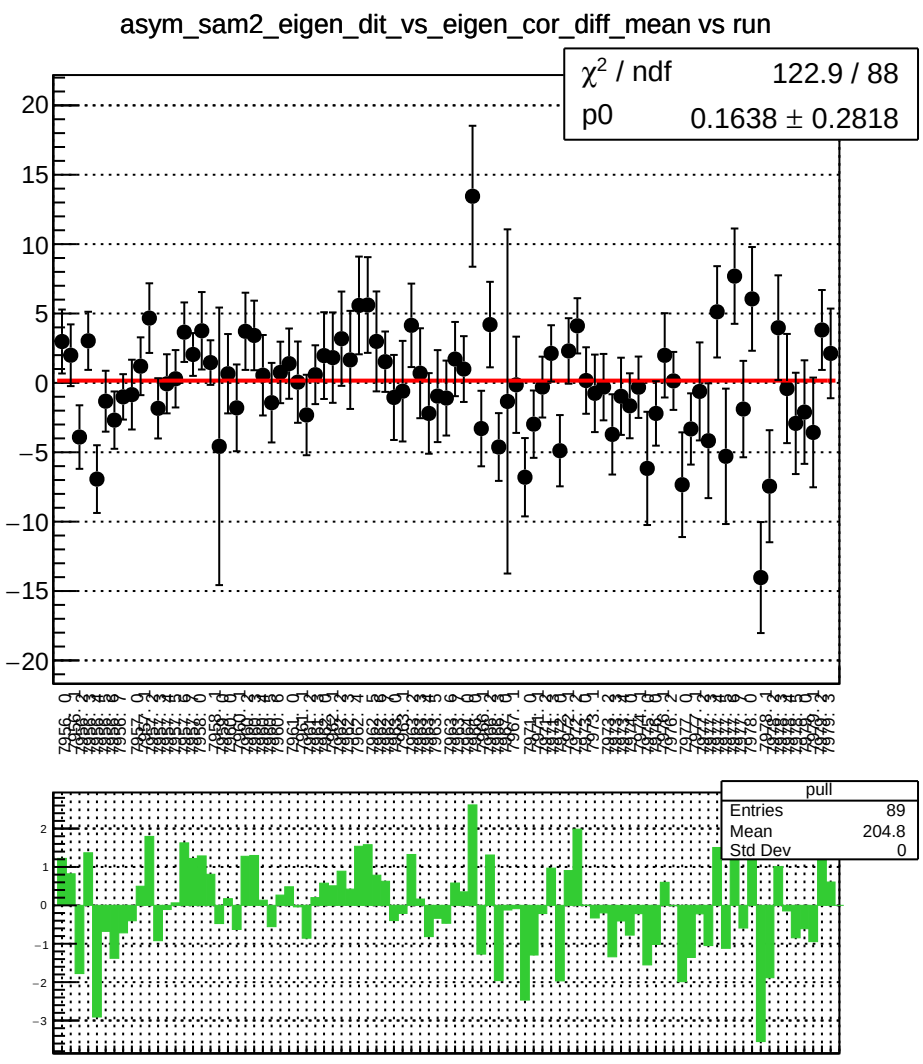

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.22 / 88
p0 −1.617e−06 ± 1.034e−05
pull
Entries 89
Mean 46.33
Std Dev 0

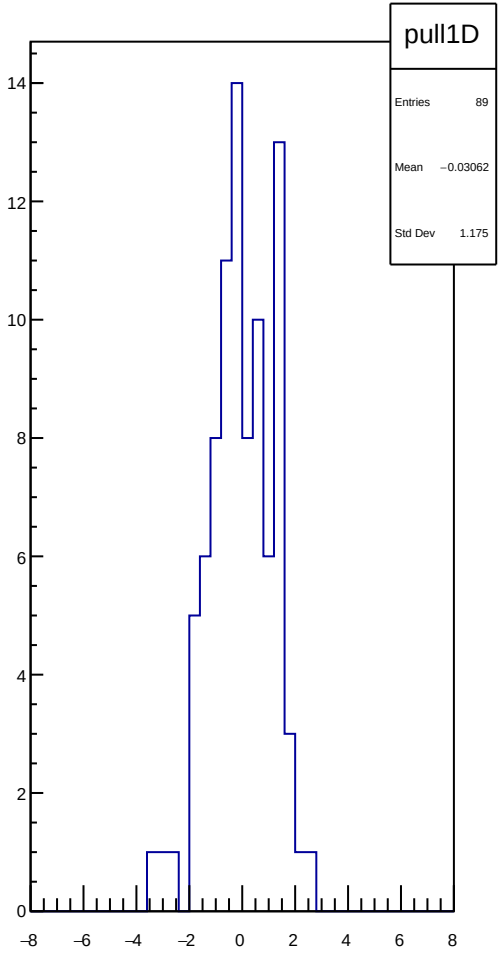

pull1D
Entries 89
Mean −0.04745
Std Dev 0.96

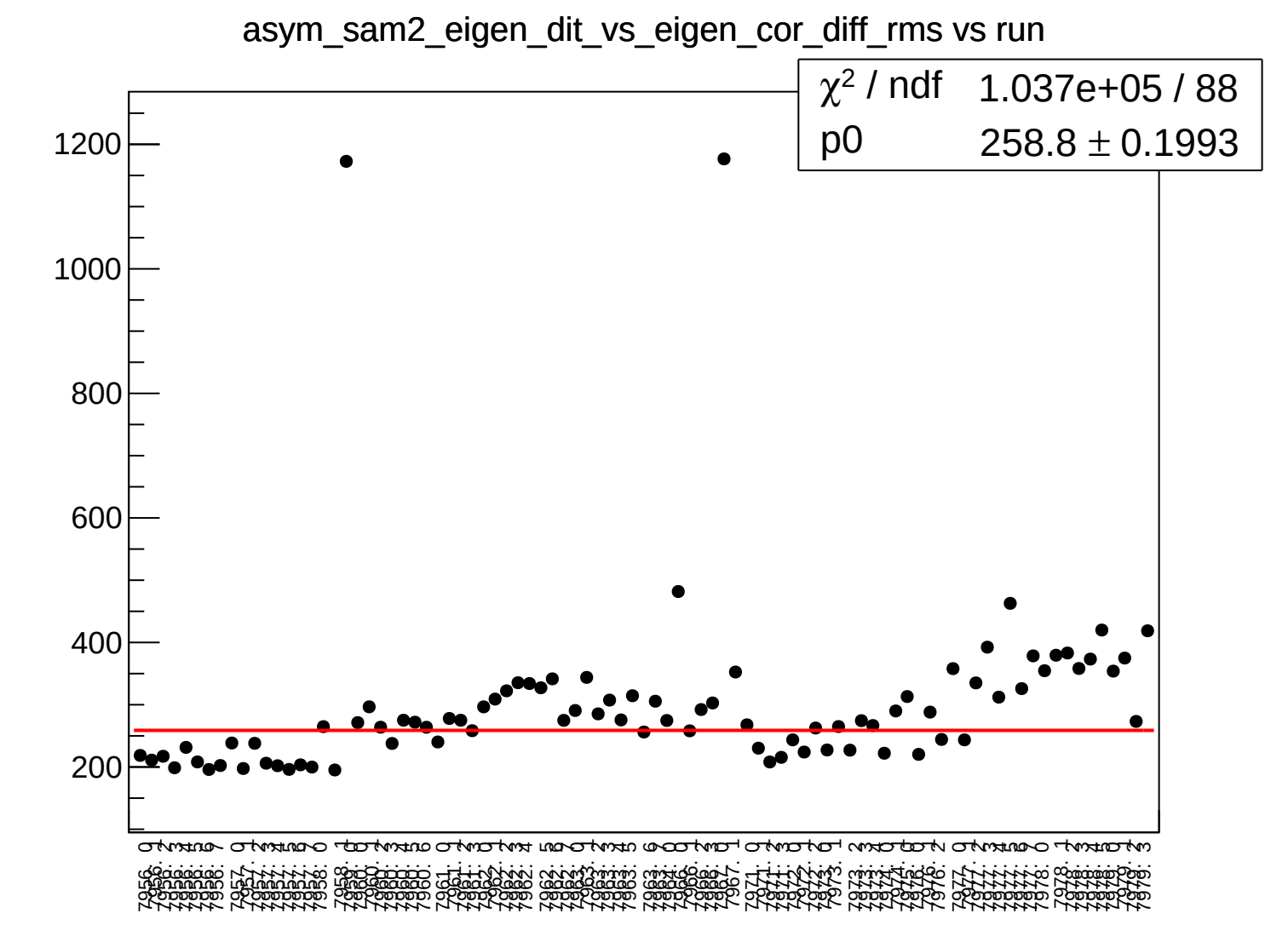

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.58e+05 / 88
p0 0.009048 ± 7.308e−06
0.025
0.02
0.015
0.01
0.005

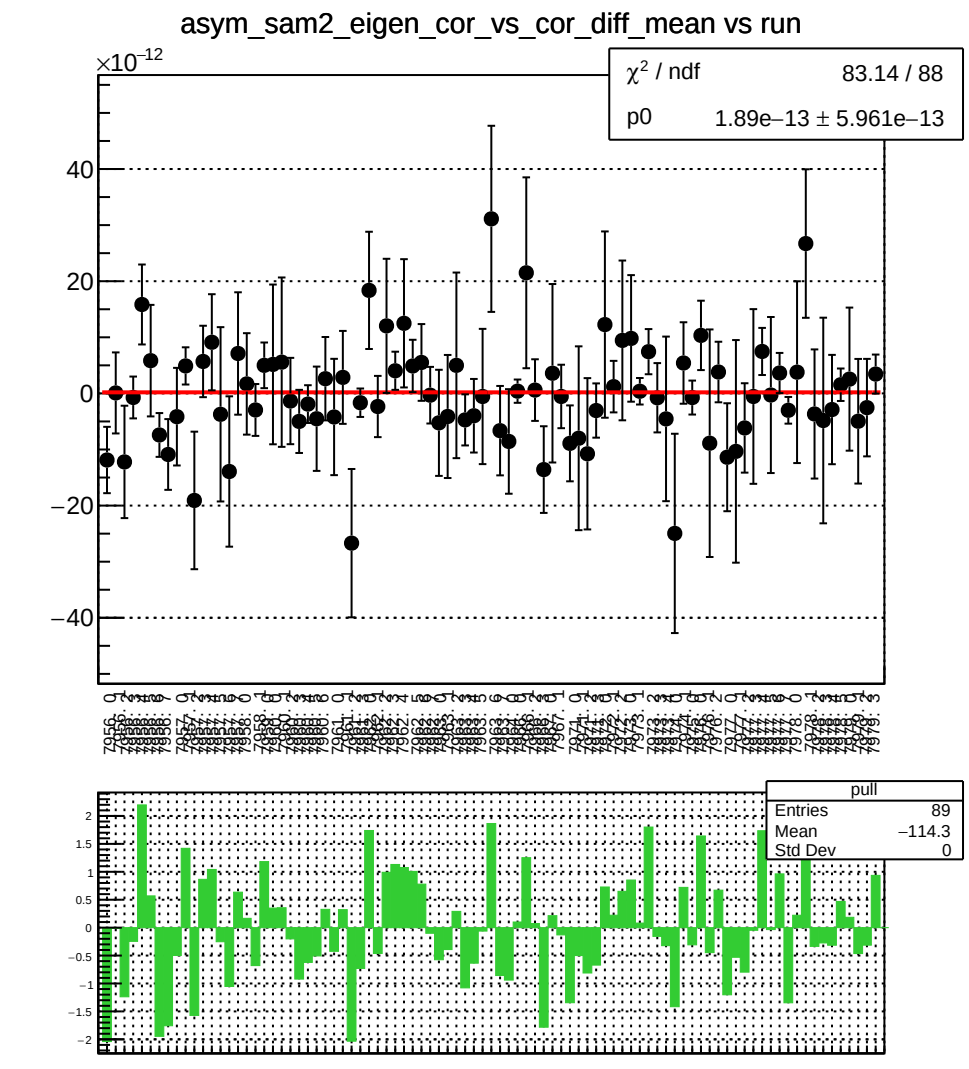

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 122.9 / 88
p0 0.1638 ± 0.2818
pull
Entries 89
Mean 204.8
Std Dev 0
pull1D
Entries 89
Mean −0.03062
Std Dev 1.175

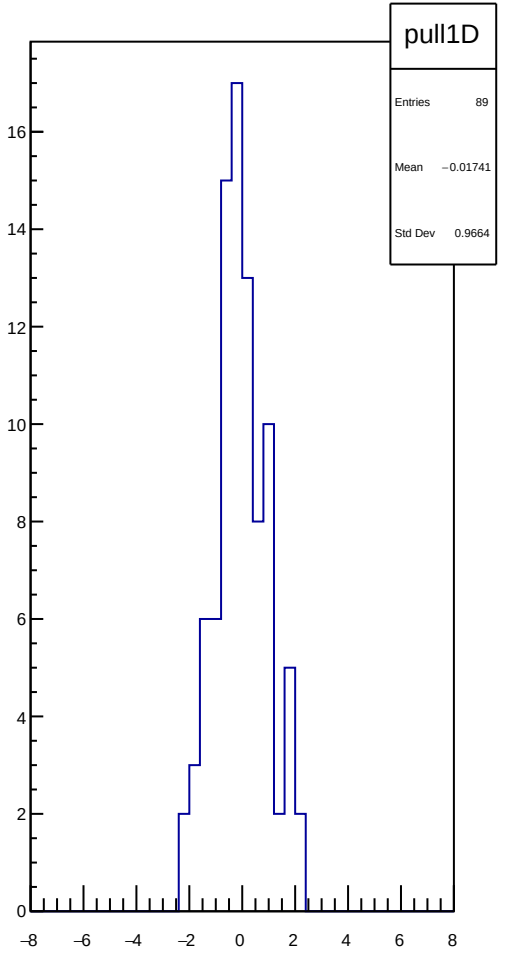

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.037e+05 / 88
p0 258.8 ± 0.1993
1200
1000
800
600
400
200

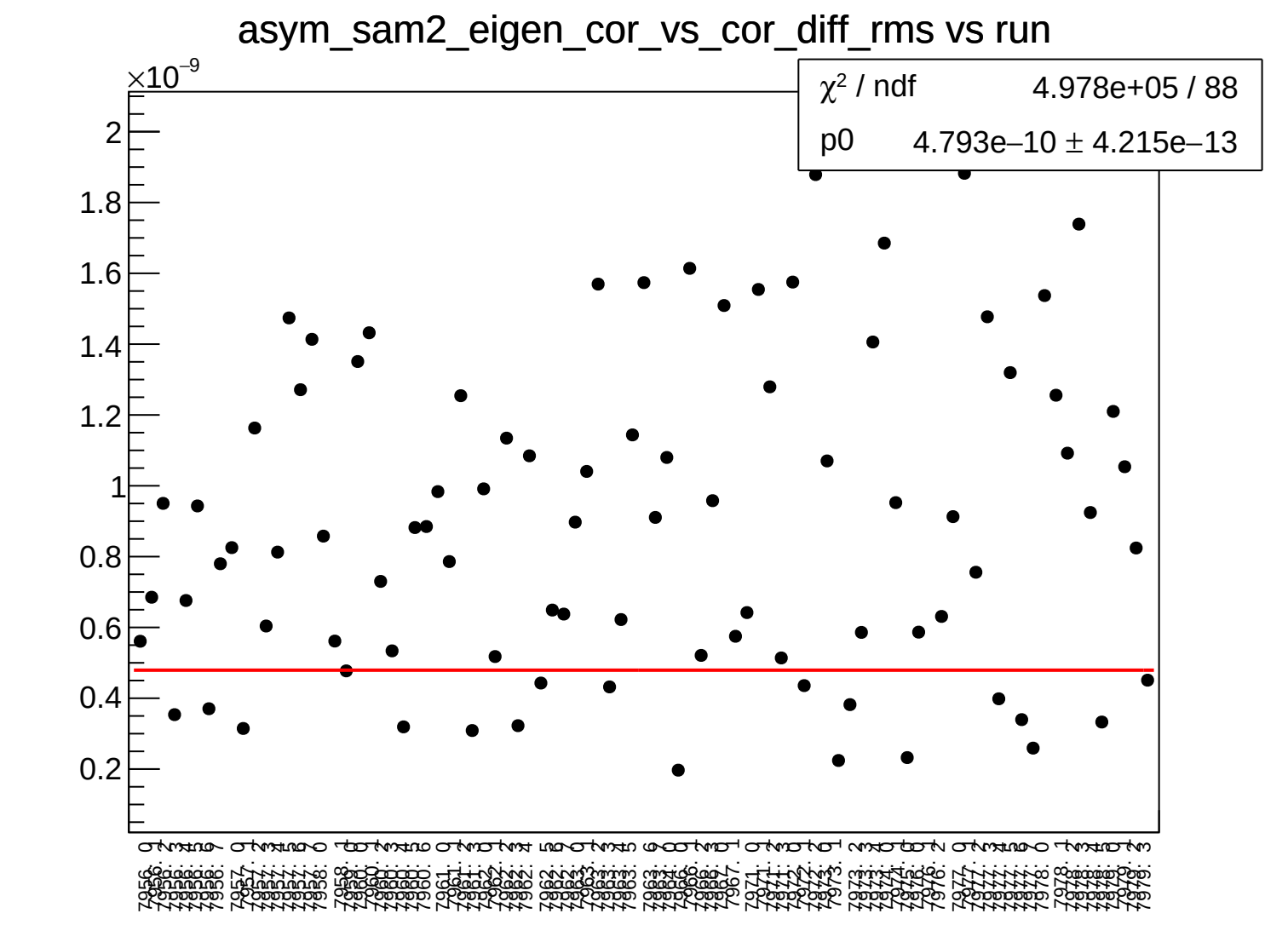

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.9 / 88
p0 0.1638 ± 0.2818
pull
Entries 89
Mean 204.8
Std Dev 0

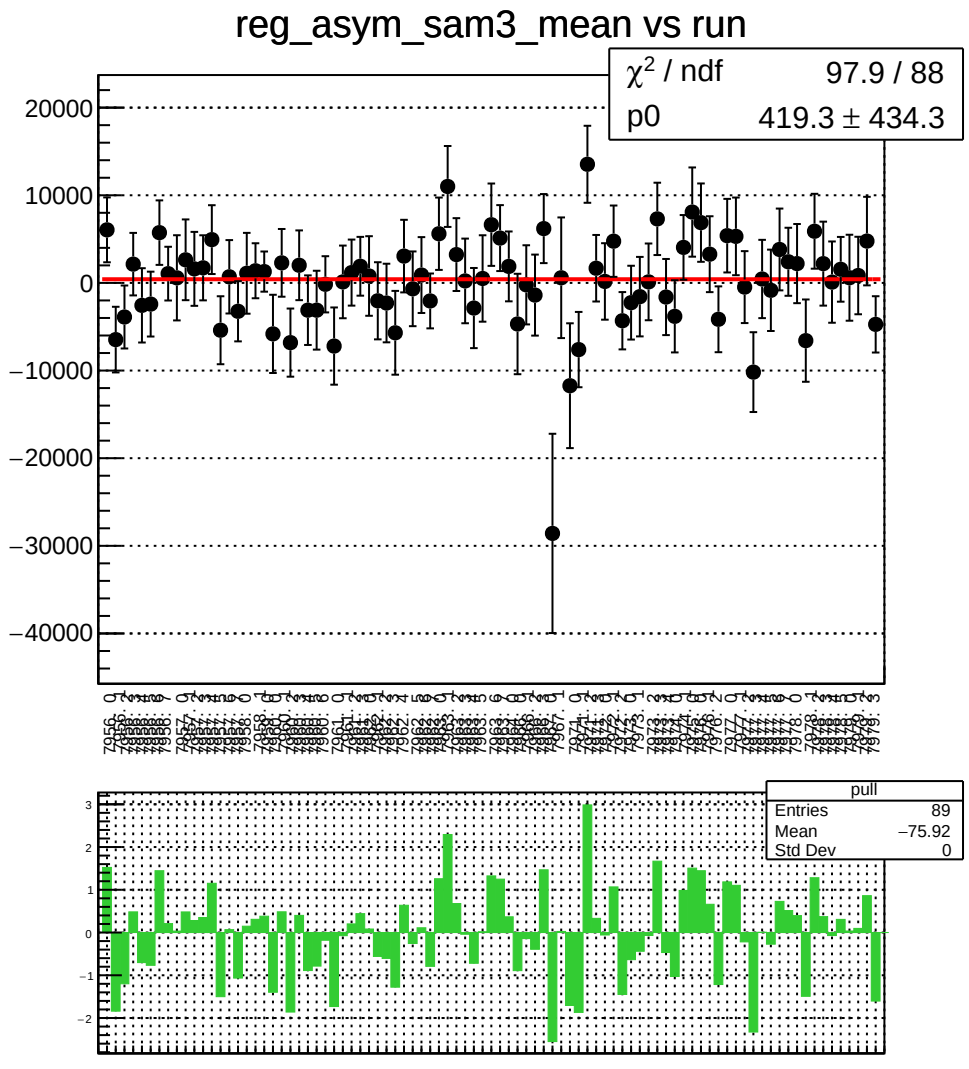

pull1D
Entries 89
Mean −0.03062
Std Dev 1.175

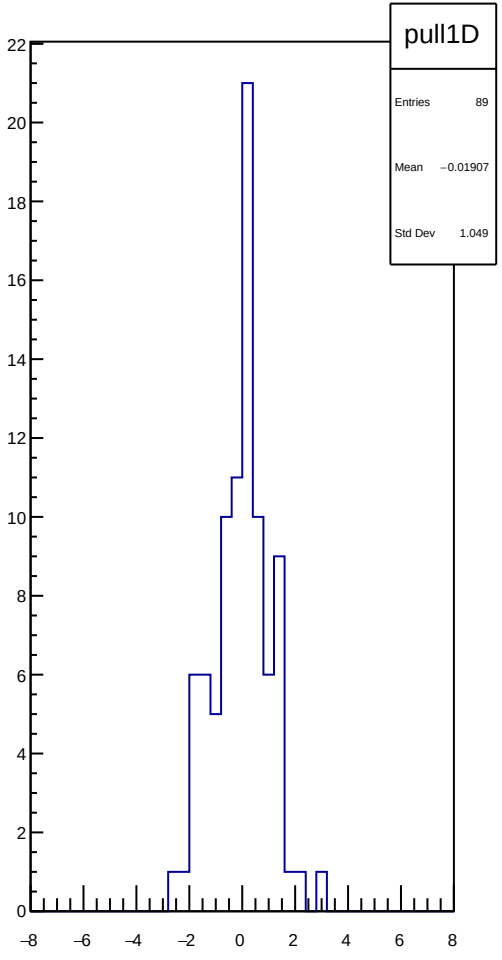

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.037e+05 / 88
p0 258.8 ± 0.1993
1200
1000
800
600
400
200

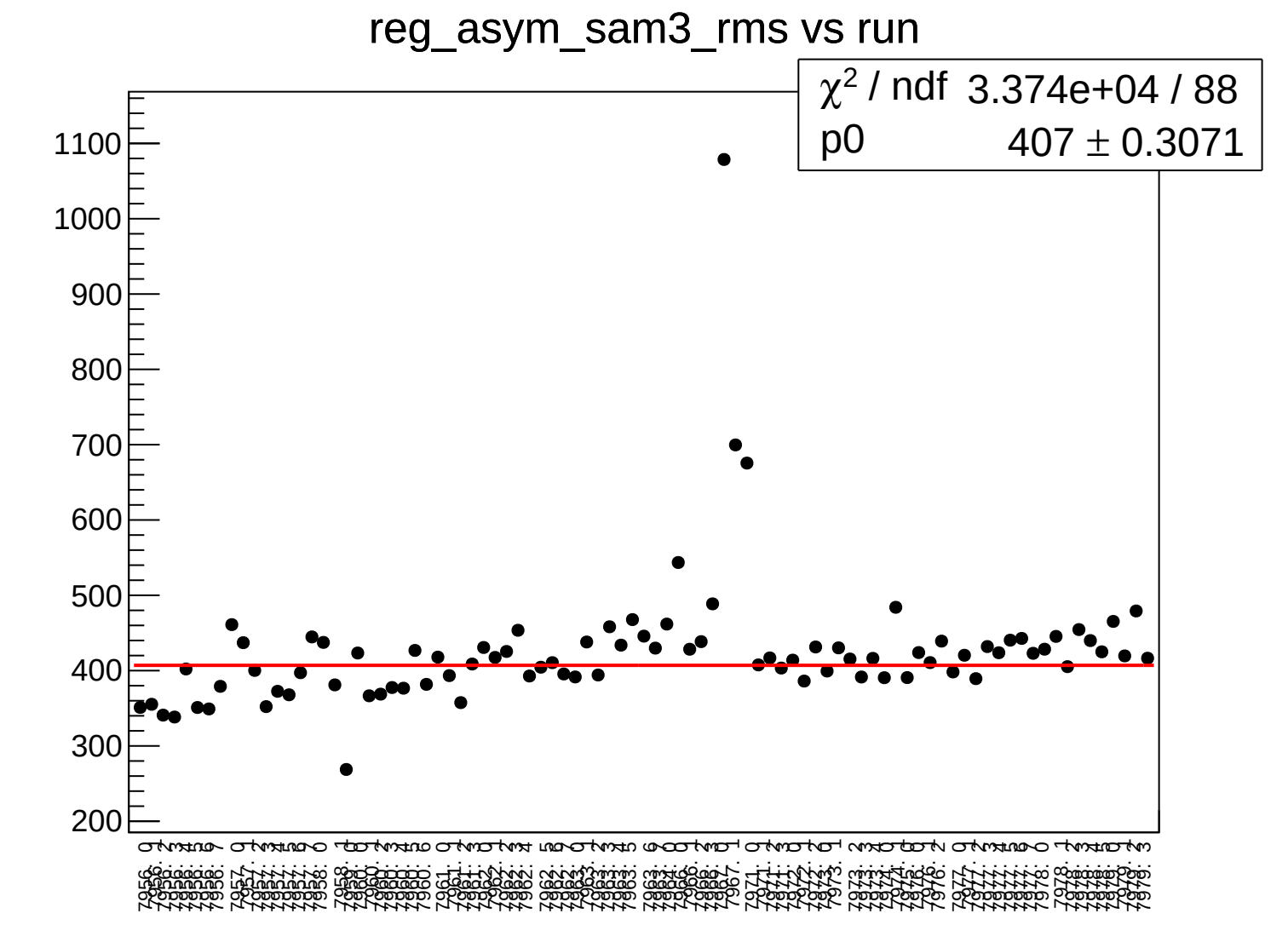

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.14 / 88
p0 1.89e−13 ± 5.961e−13
40
20
0
−20
−40
pull
Entries 89
Mean −114.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

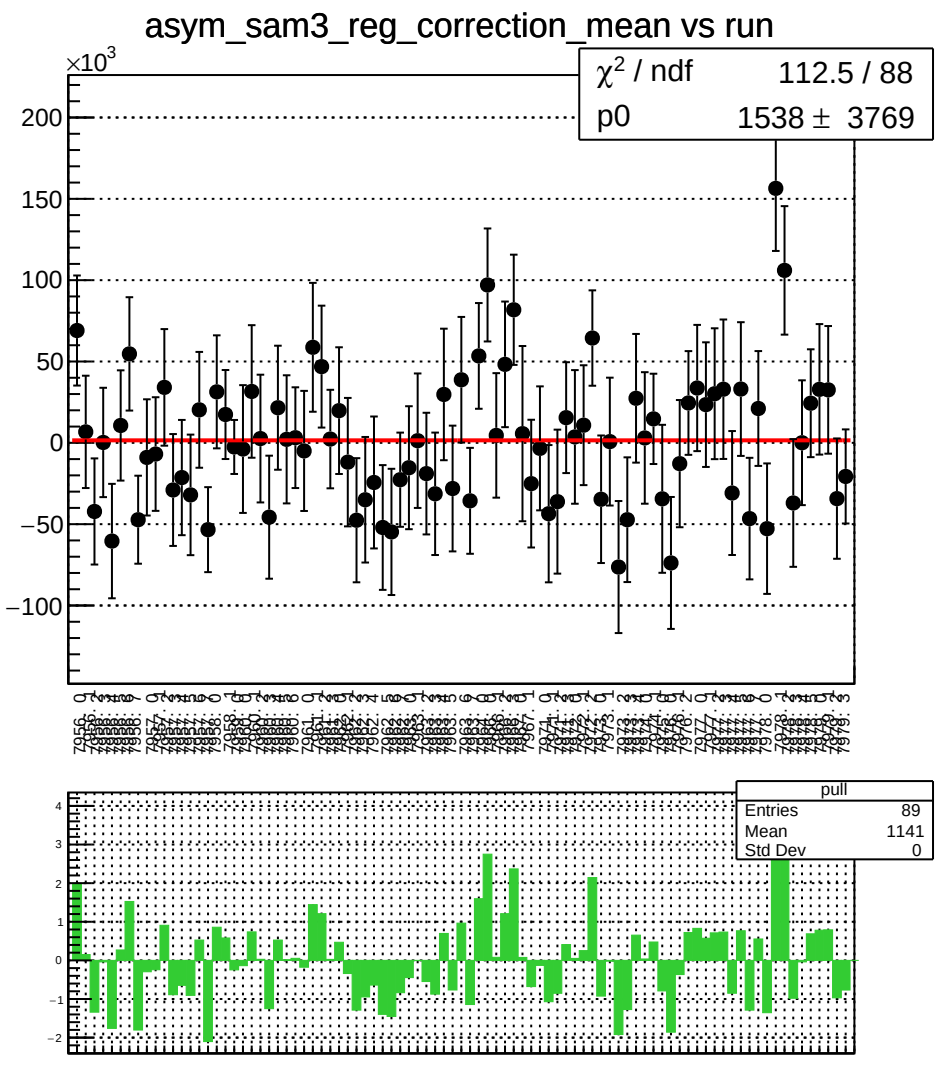

pull1D
Entries 89
Mean −0.01741
Std Dev 0.9664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

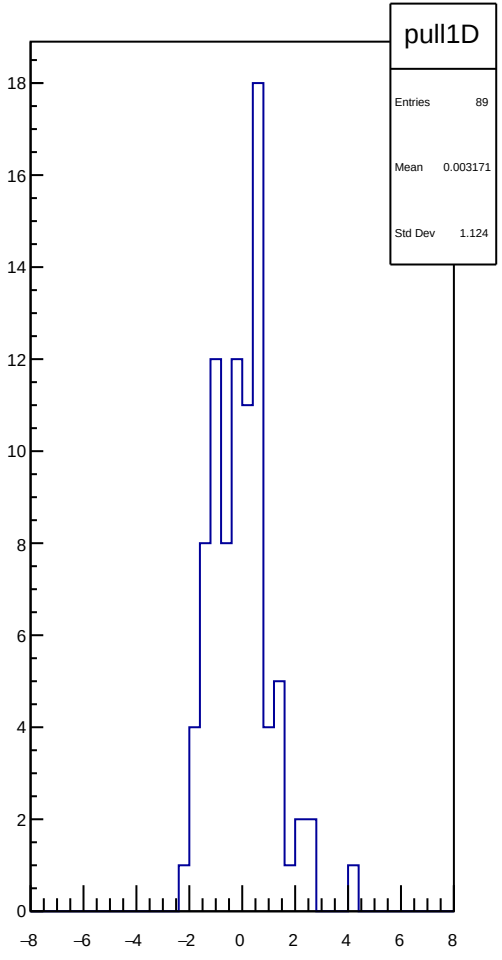

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.978e+05 / 88
p0 4.793e−10 ± 4.215e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

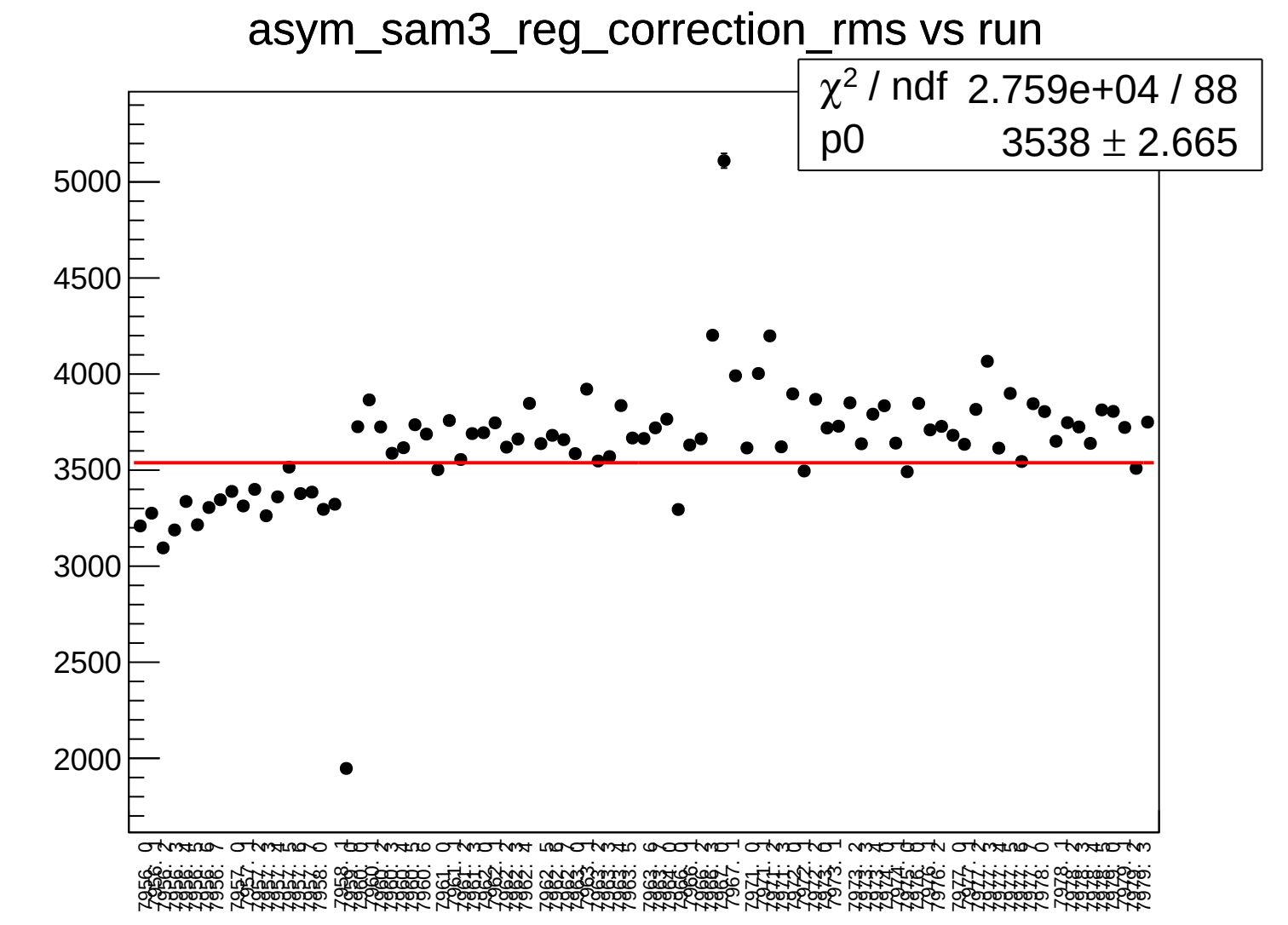

reg_asym_sam3_mean vs run
χ² / ndf 97.9 / 88
p0 419.3 ± 434.3
pull
Entries 89
Mean −75.92
Std Dev 0

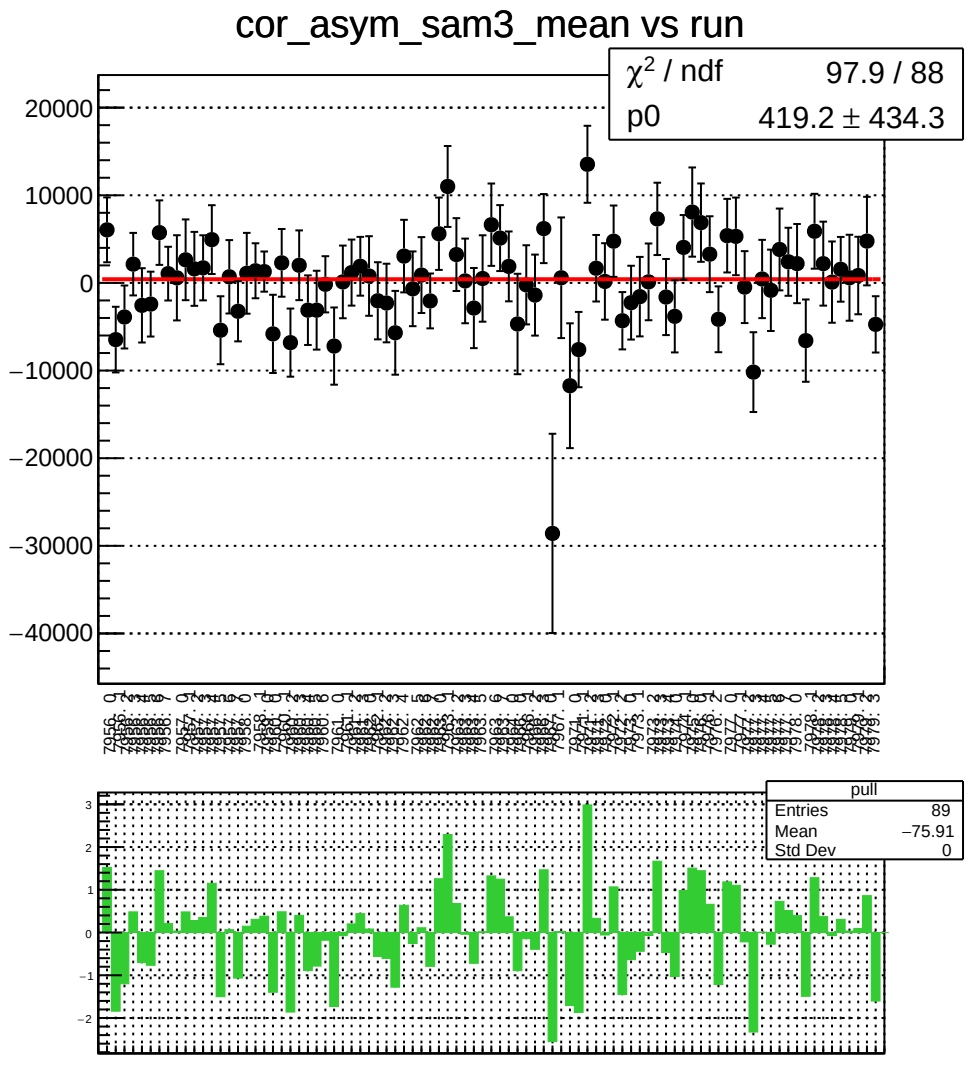

pull1D
Entries 89
Mean −0.01907
Std Dev 1.049

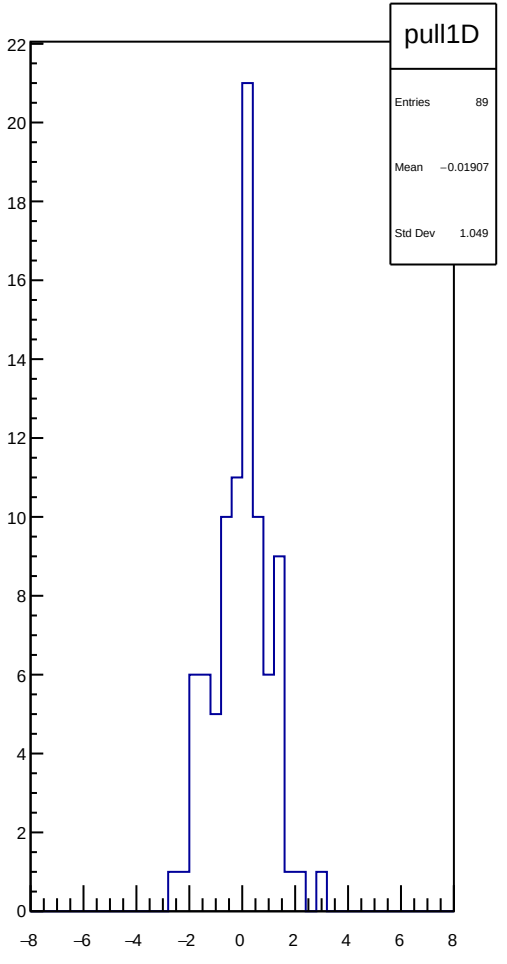

reg_asym_sam3_rms vs run
χ² / ndf 3.374e+04 / 88
p0 407 ± 0.3071
1100
1000
900
800
700
600
500
400
300
200

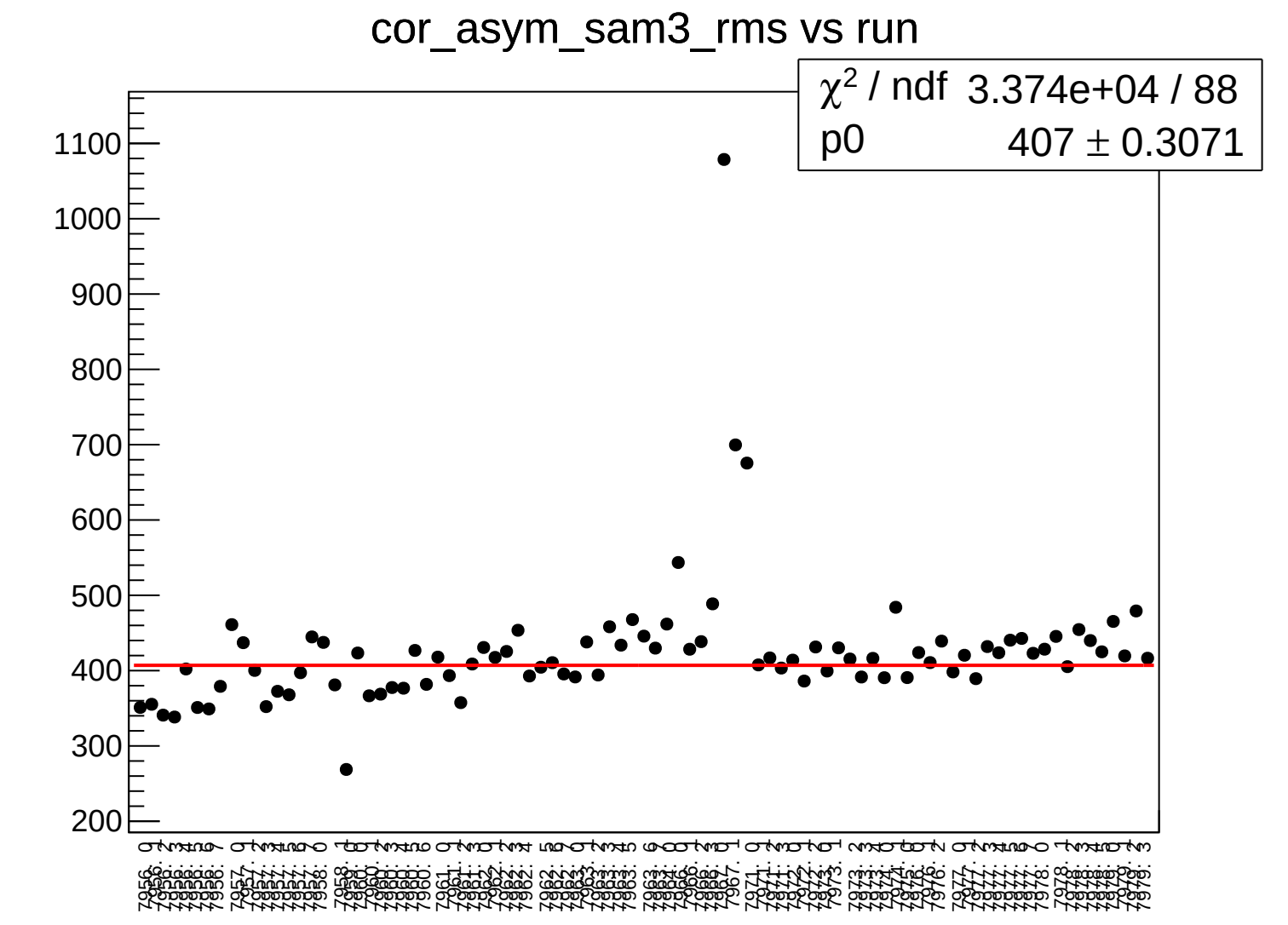

asym_sam3_reg_correction_mean vs run
χ² / ndf 112.5 / 88
p0 1538 ± 3769
×10³
pull
Entries 89
Mean 1141
Std Dev 0

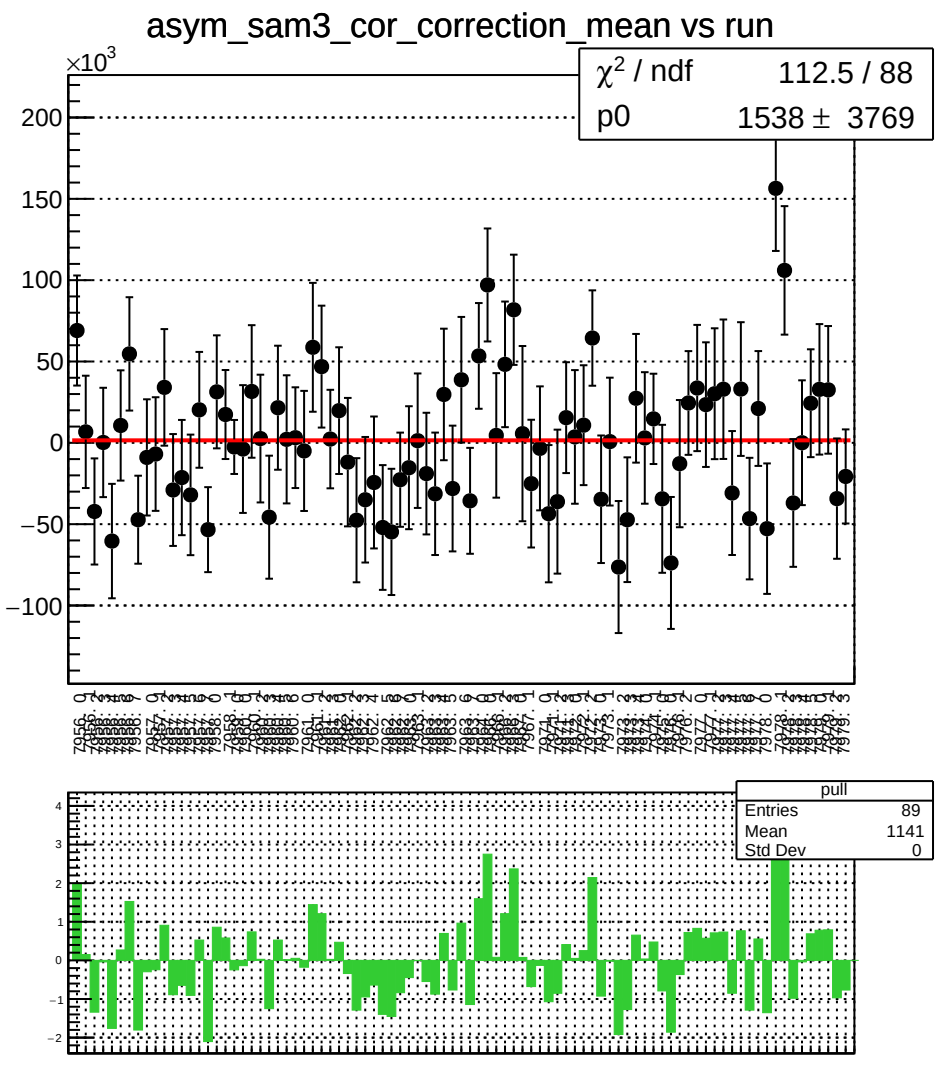

pull1D
Entries 89
Mean 0.003171
Std Dev 1.124

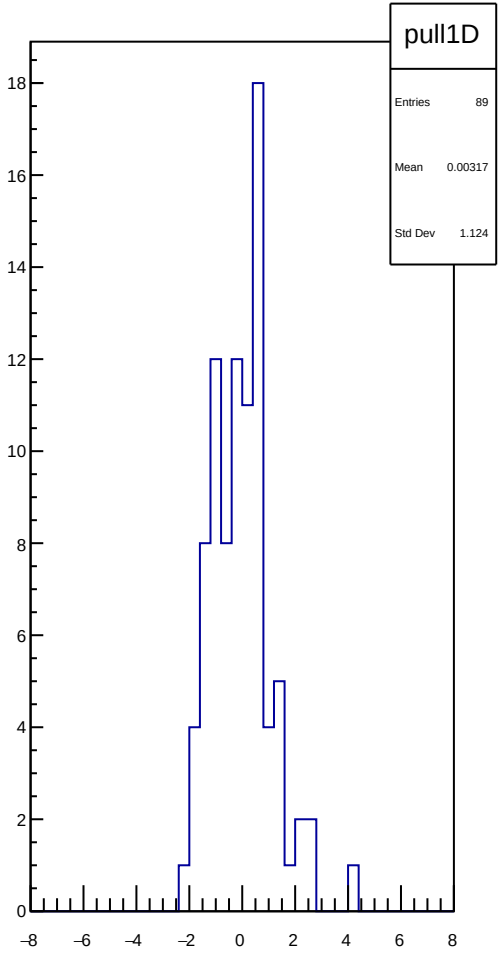

asym_sam3_reg_correction_rms vs run
χ² / ndf 2.759e+04 / 88
p0 3538 ± 2.665
5000
4500
4000
3500
3000
2500
2000

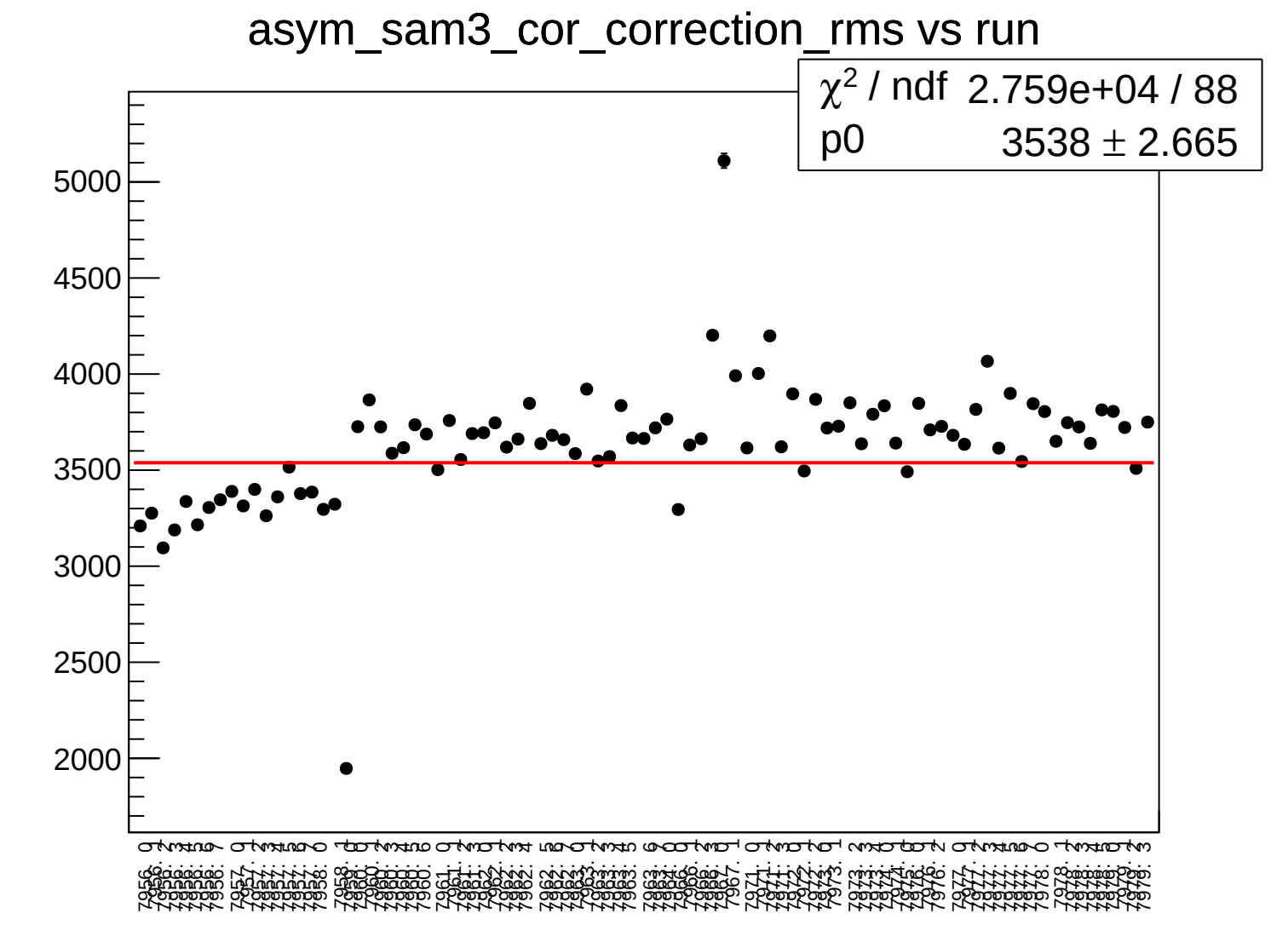

cor_asym_sam3_mean vs run
χ² / ndf 97.9 / 88
p0 419.2 ± 434.3
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −75.91
Std Dev 0
3
2
1
0
−1
−2

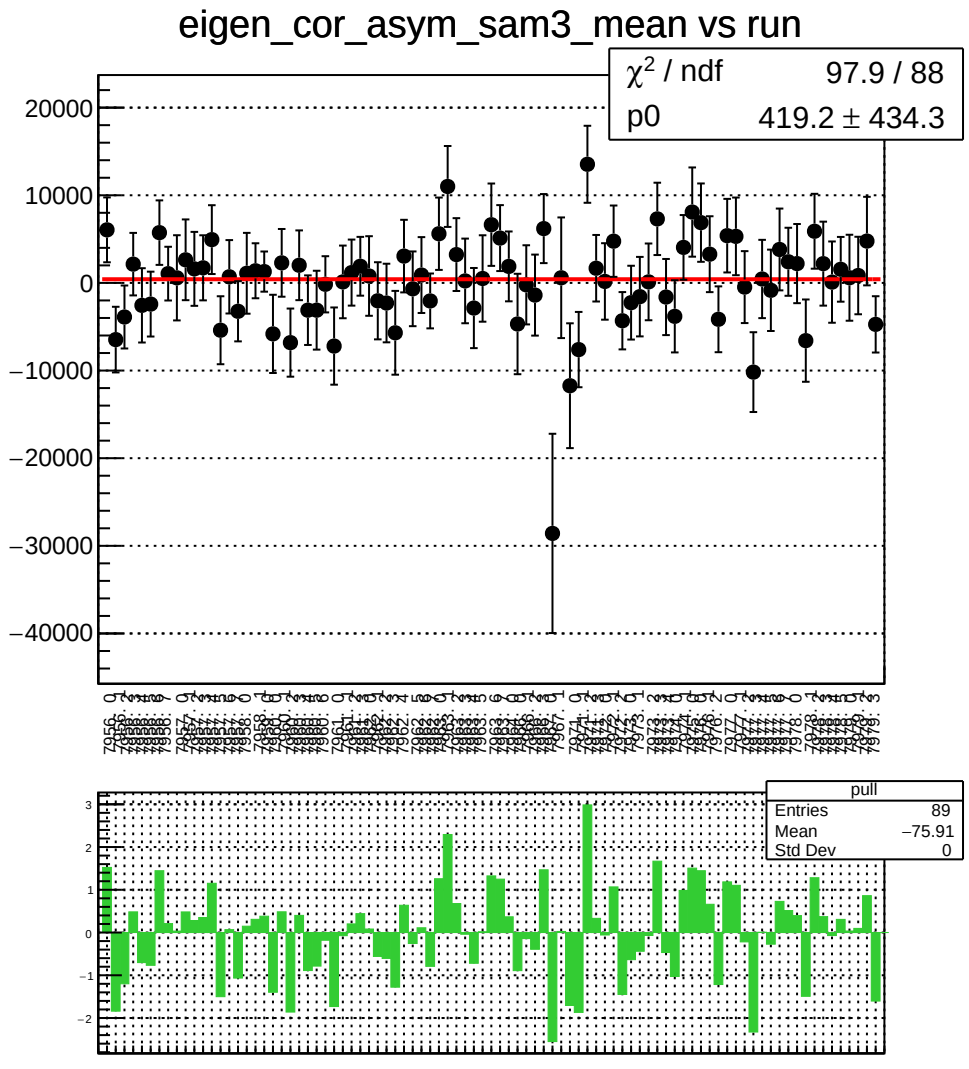

pull1D
Entries 89
Mean −0.01907
Std Dev 1.049
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

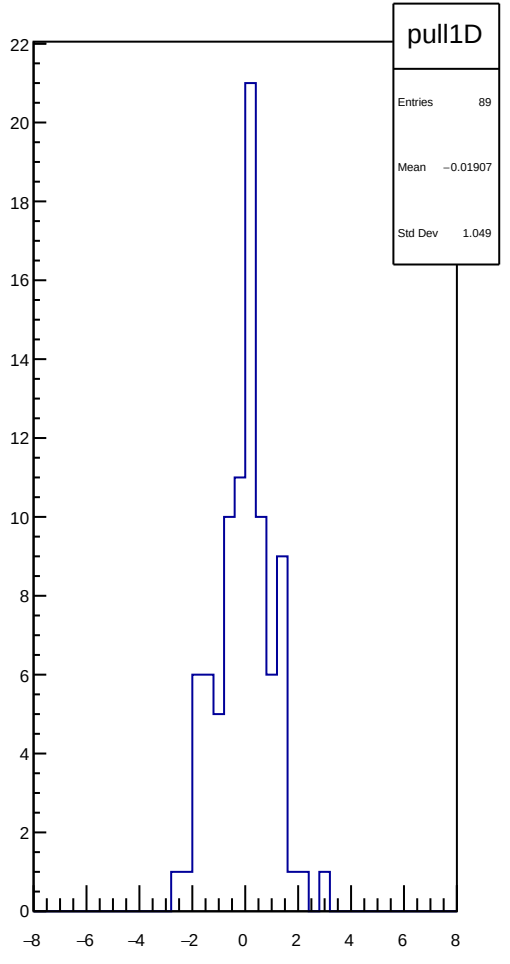

cor_asym_sam3_rms vs run
χ² / ndf 3.374e+04 / 88
p0 407 ± 0.3071
1100
1000
900
800
700
600
500
400
300
200

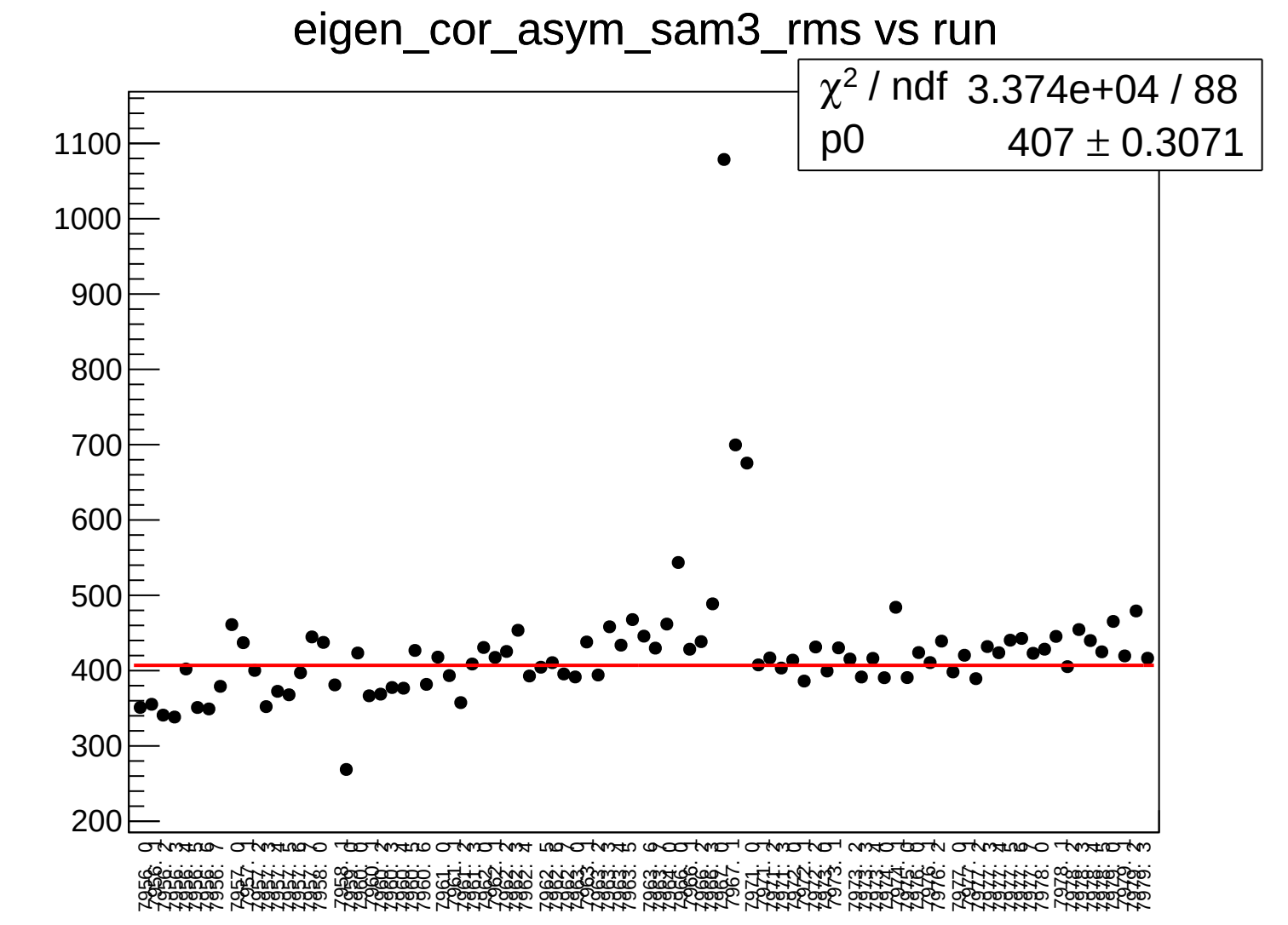

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 112.5 / 88
p0 1538 ± 3769
pull
Entries 89
Mean 1141
Std Dev 0

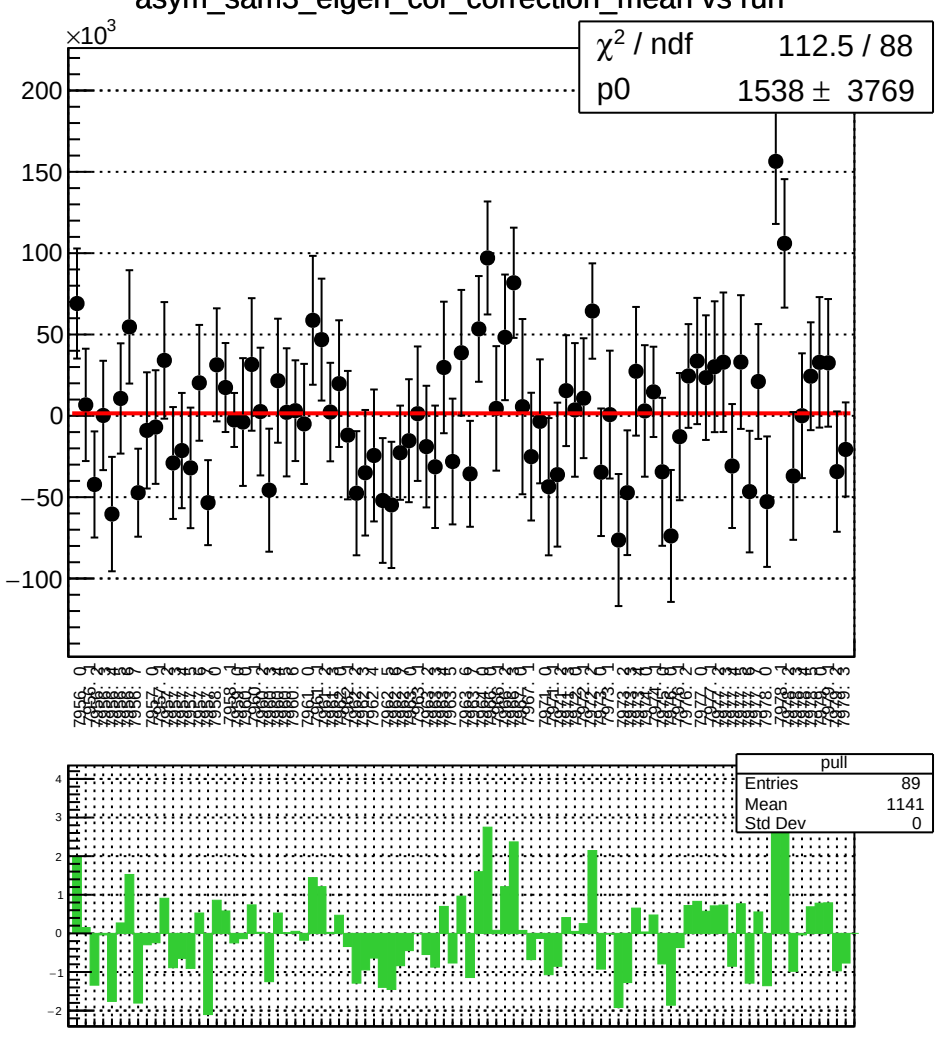

pull1D
Entries 89
Mean 0.00317
Std Dev 1.124

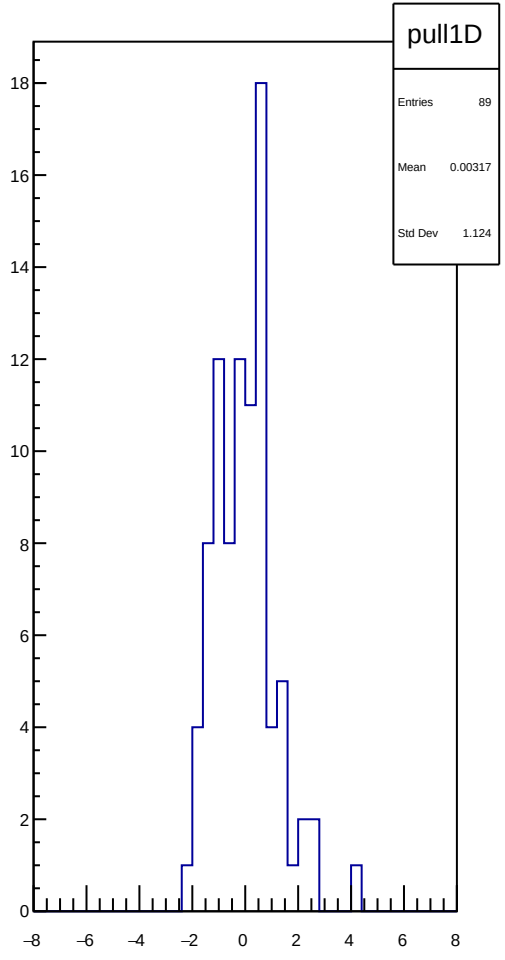

asym_sam3_cor_correction_rms vs run
χ² / ndf 2.759e+04 / 88
p0 3538 ± 2.665
5000
4500
4000
3500
3000
2500
2000

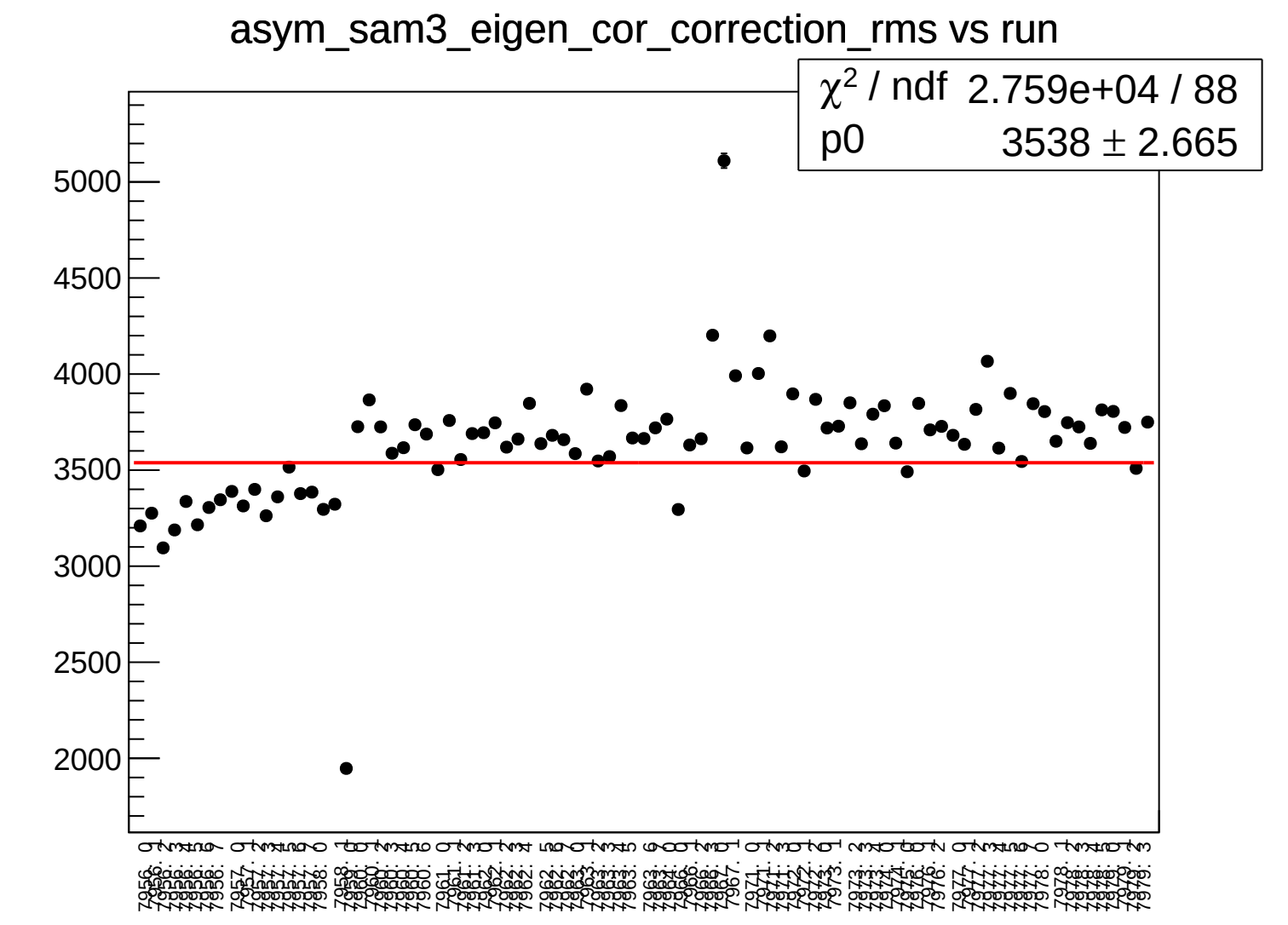

eigen_cor_asym_sam3_mean vs run
χ² / ndf 97.9 / 88
p0 419.2 ± 434.3
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −75.91
Std Dev 0
3
2
1
0
−1
−2

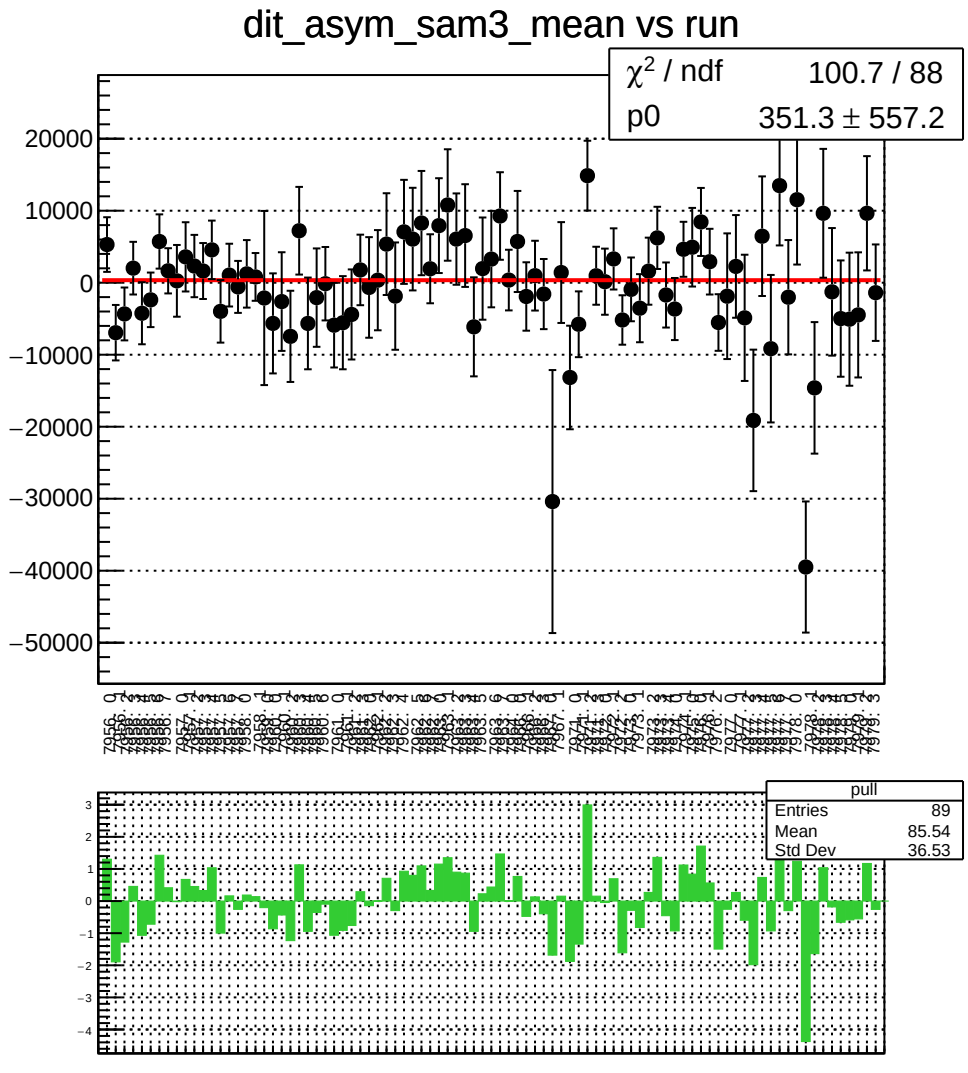

pull1D
Entries 89
Mean −0.01907
Std Dev 1.049
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

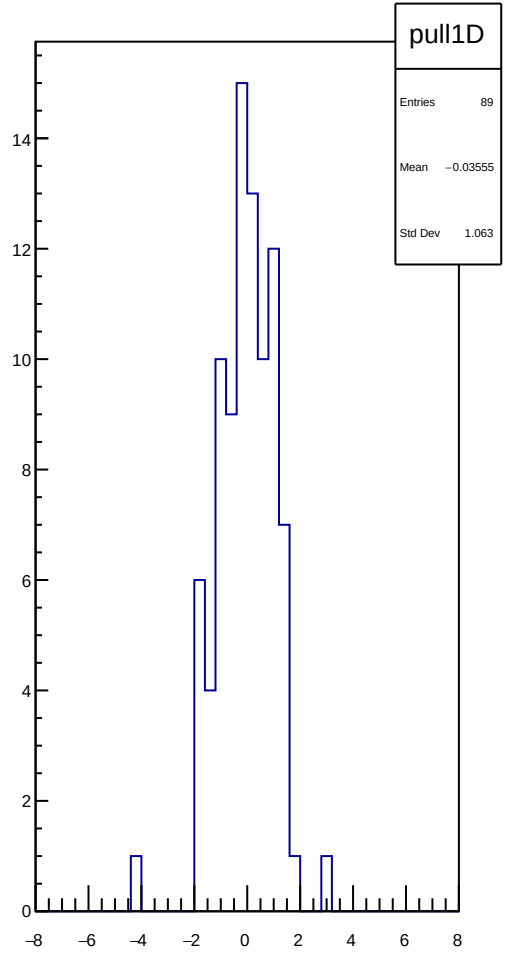

eigen_cor_asym_sam3_rms vs run
χ² / ndf 3.374e+04 / 88
p0 407 ± 0.3071
1100
1000
900
800
700
600
500
400
300
200

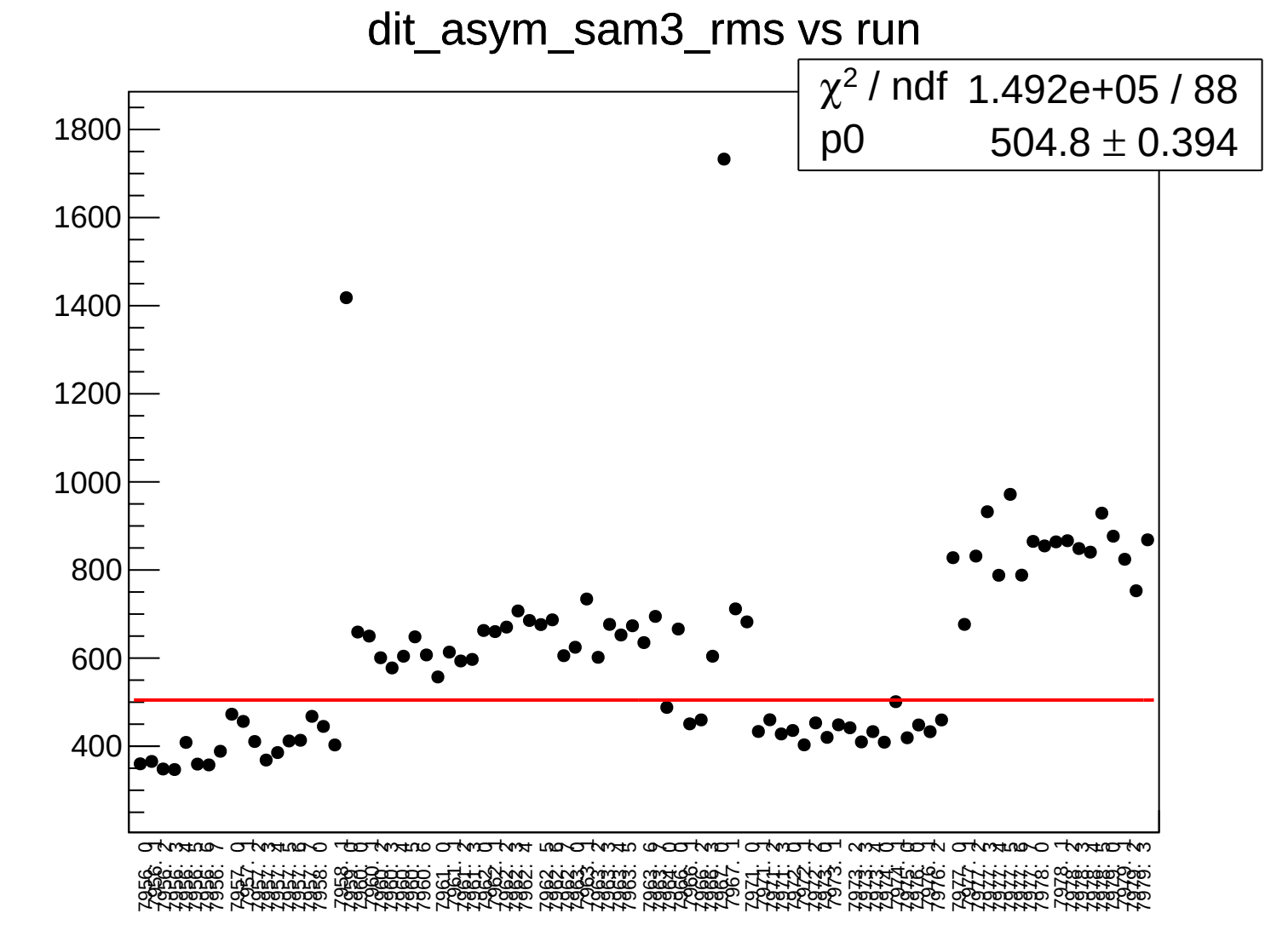

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 112.5 / 88
p0 1538 ± 3769
200
150
100
50
0
−50
−100
pull
Entries 89
Mean 1141
Std Dev 0
4
3
2
1
0
−1
−2

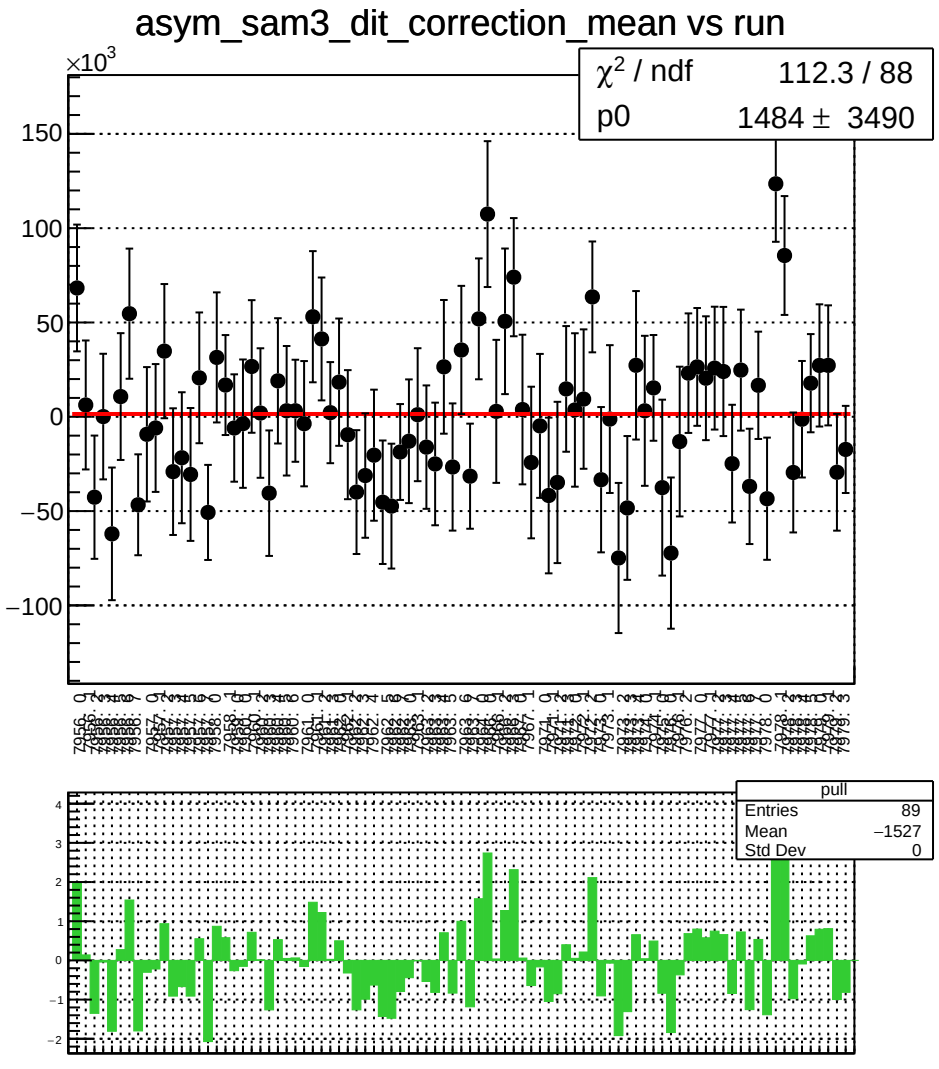

pull1D
Entries 89
Mean 0.00317
Std Dev 1.124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

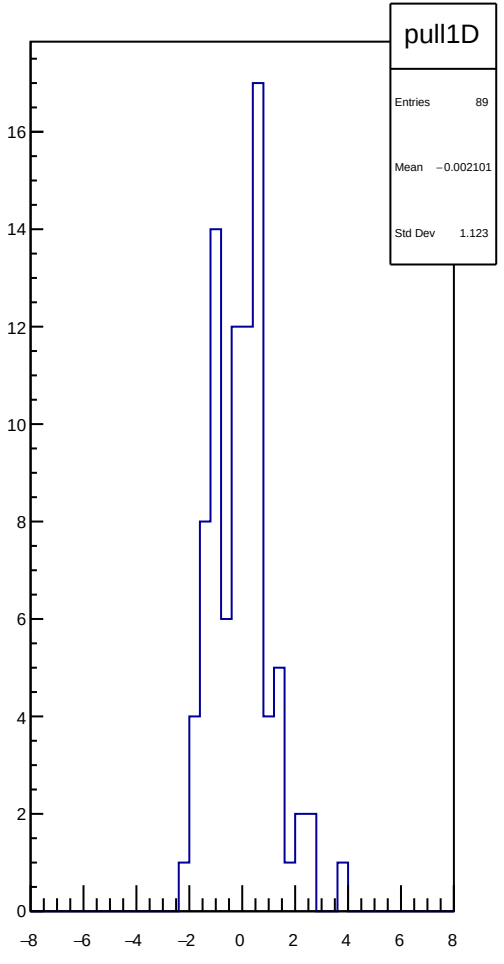

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 2.759e+04 / 88
p0 3538 ± 2.665
5000
4500
4000
3500
3000
2500
2000

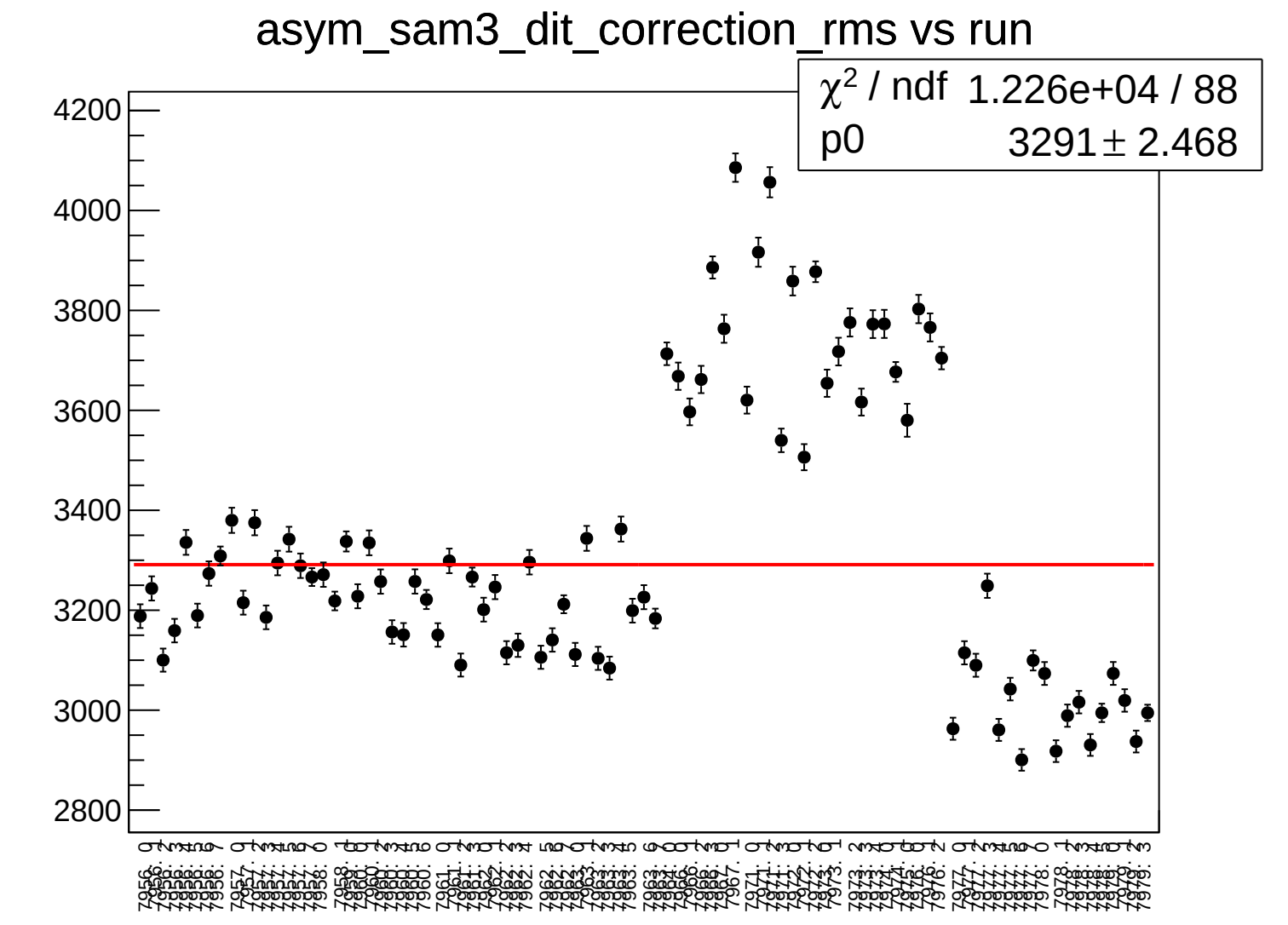

dit_asym_sam3_mean vs run
χ² / ndf 100.7 / 88
p0 351.3 ± 557.2
pull
Entries 89
Mean 85.54
Std Dev 36.53

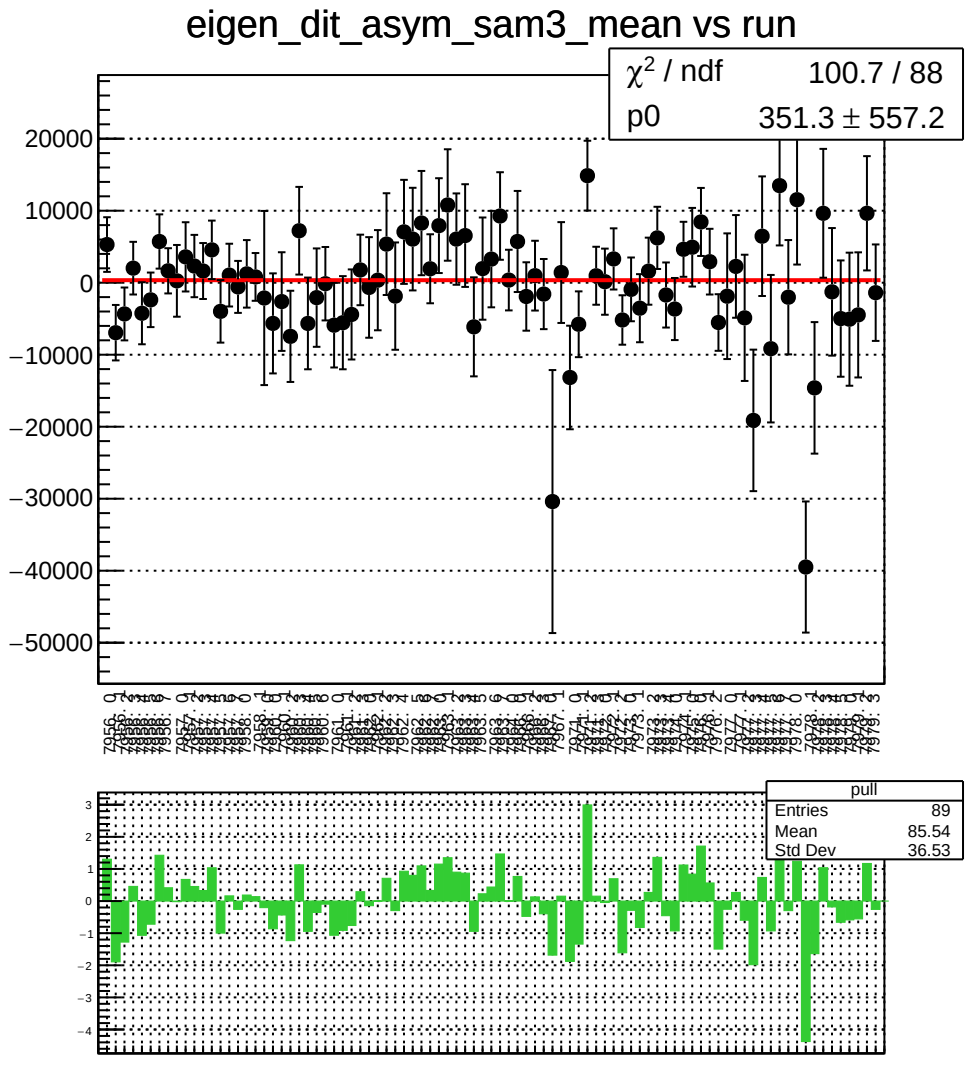

pull1D
Entries 89
Mean −0.03555
Std Dev 1.063

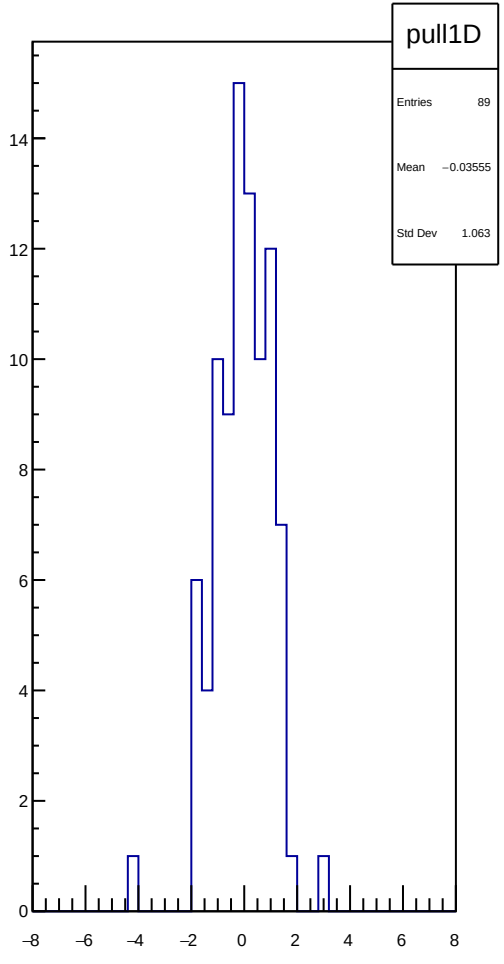

dit_asym_sam3_rms vs run
$\chi^2$ / ndf 1.492e+05 / 88
p0 504.8 ± 0.394
1800
1600
1400
1200
1000
800
600
400

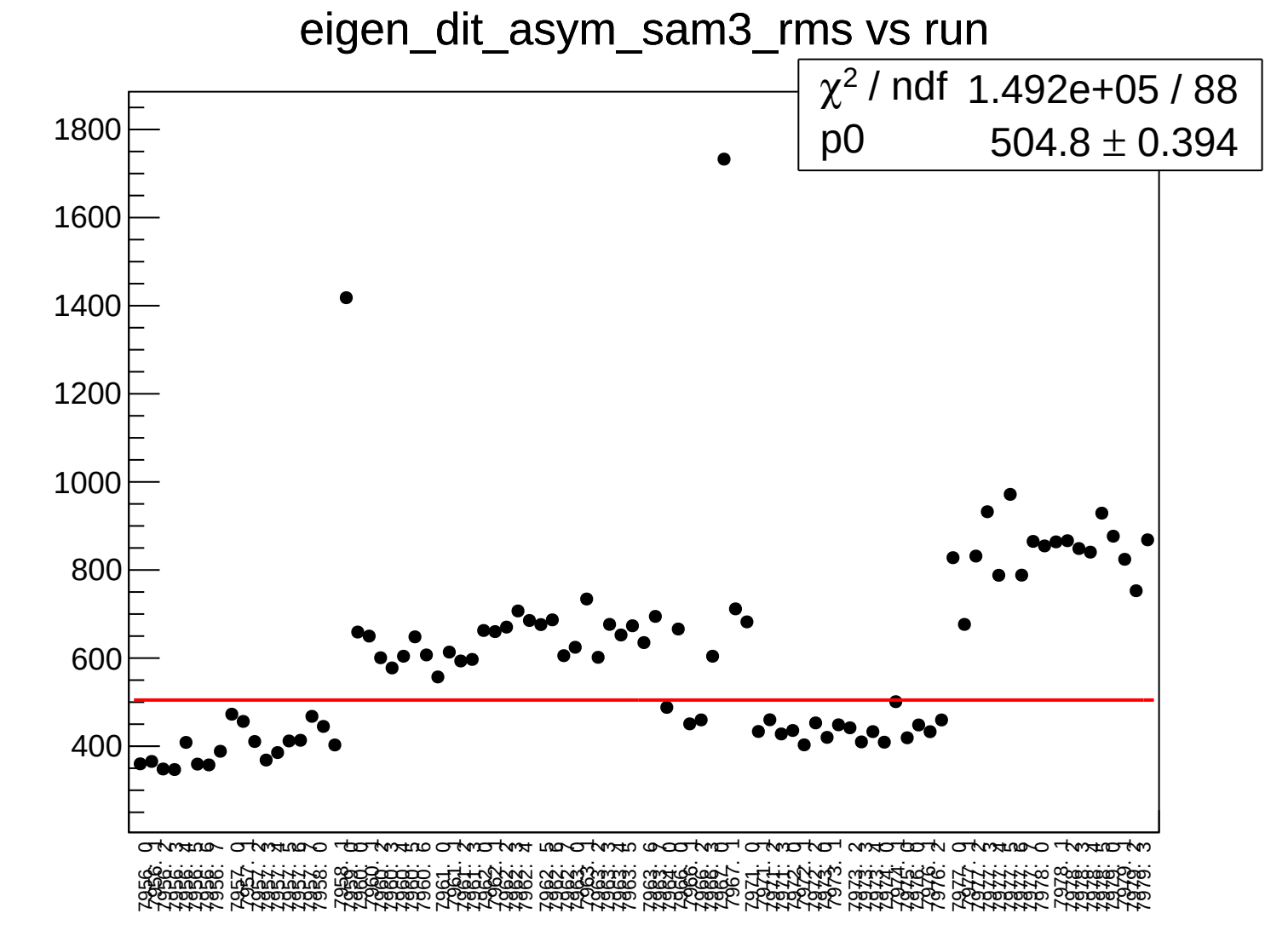

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 112.3 / 88
p0 1484 ± 3490
150
100
50
0
−50
−100
pull
Entries 89
Mean −1527
Std Dev 0
4
3
2
1
0
−1
−2

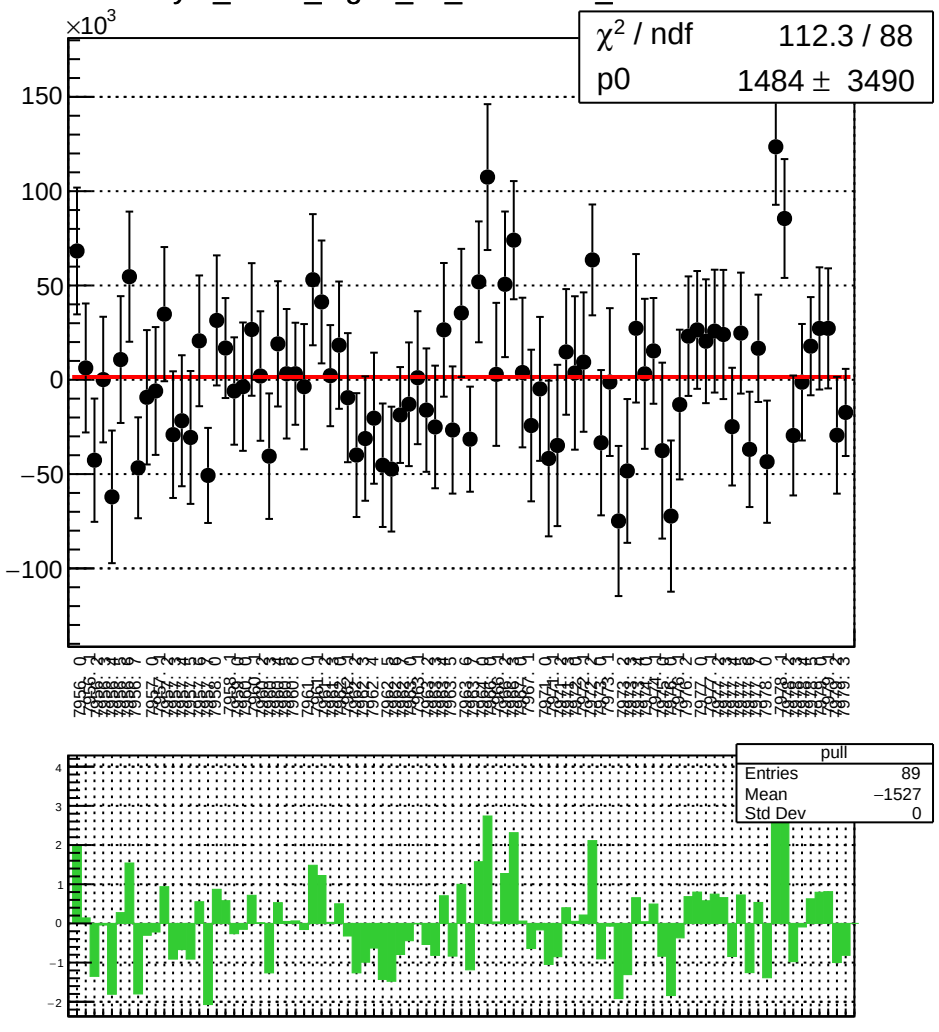

pull1D
Entries 89
Mean −0.002101
Std Dev 1.123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

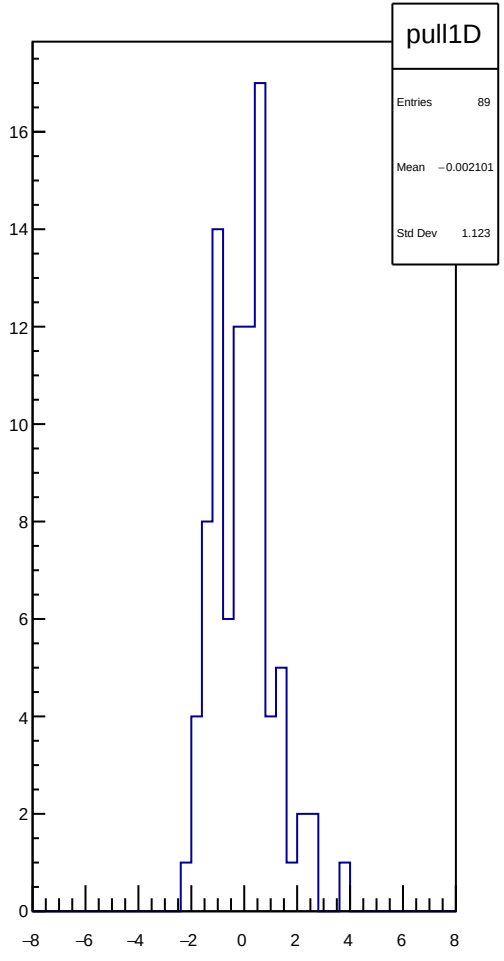

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.226e+04 / 88
p0 3291 ± 2.468
4200
4000
3800
3600
3400
3200
3000
2800

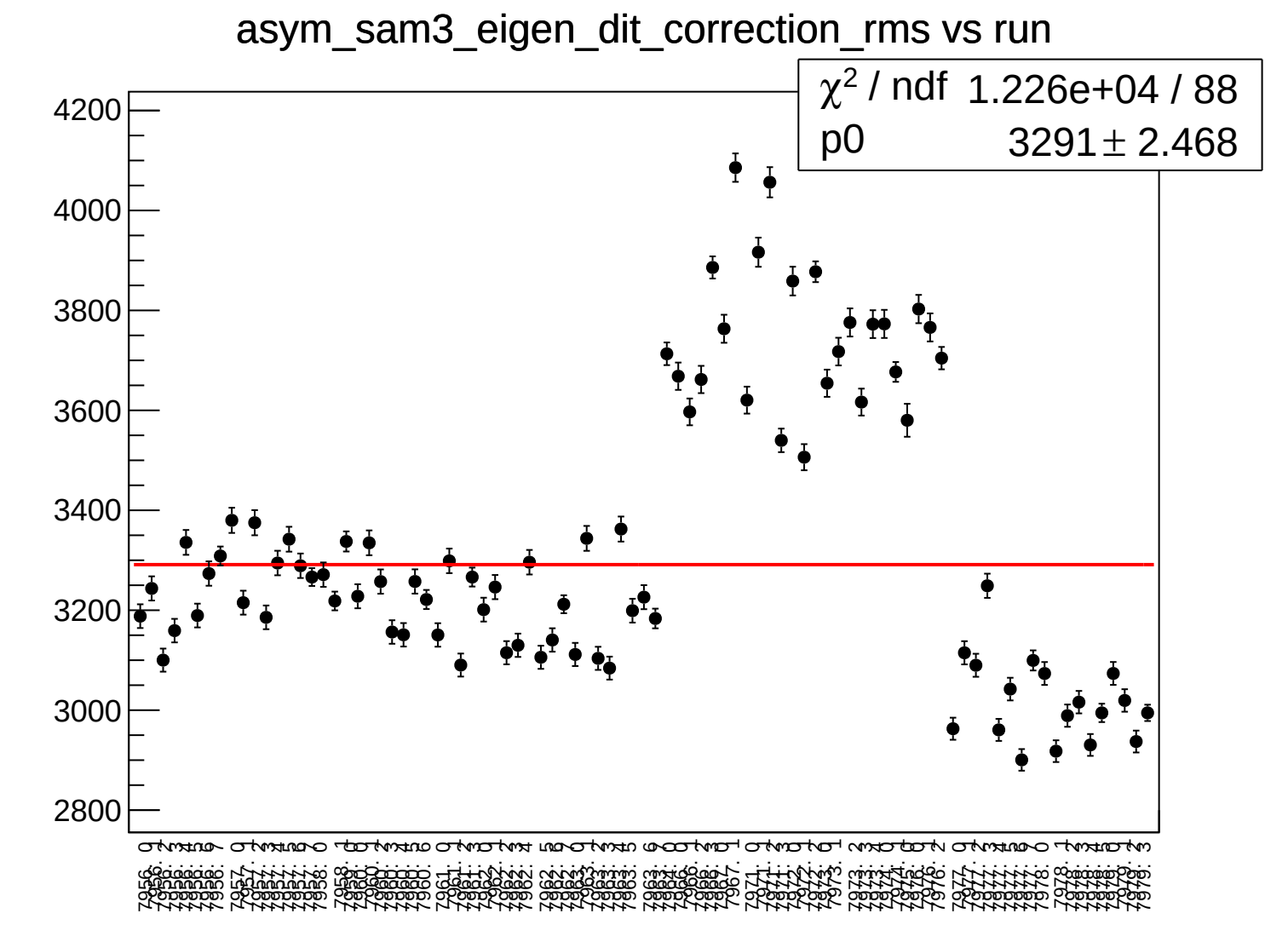

eigen_dit_asym_sam3_mean vs run
χ² / ndf 100.7 / 88
p0 351.3 ± 557.2
pull
Entries 89
Mean 85.54
Std Dev 36.53

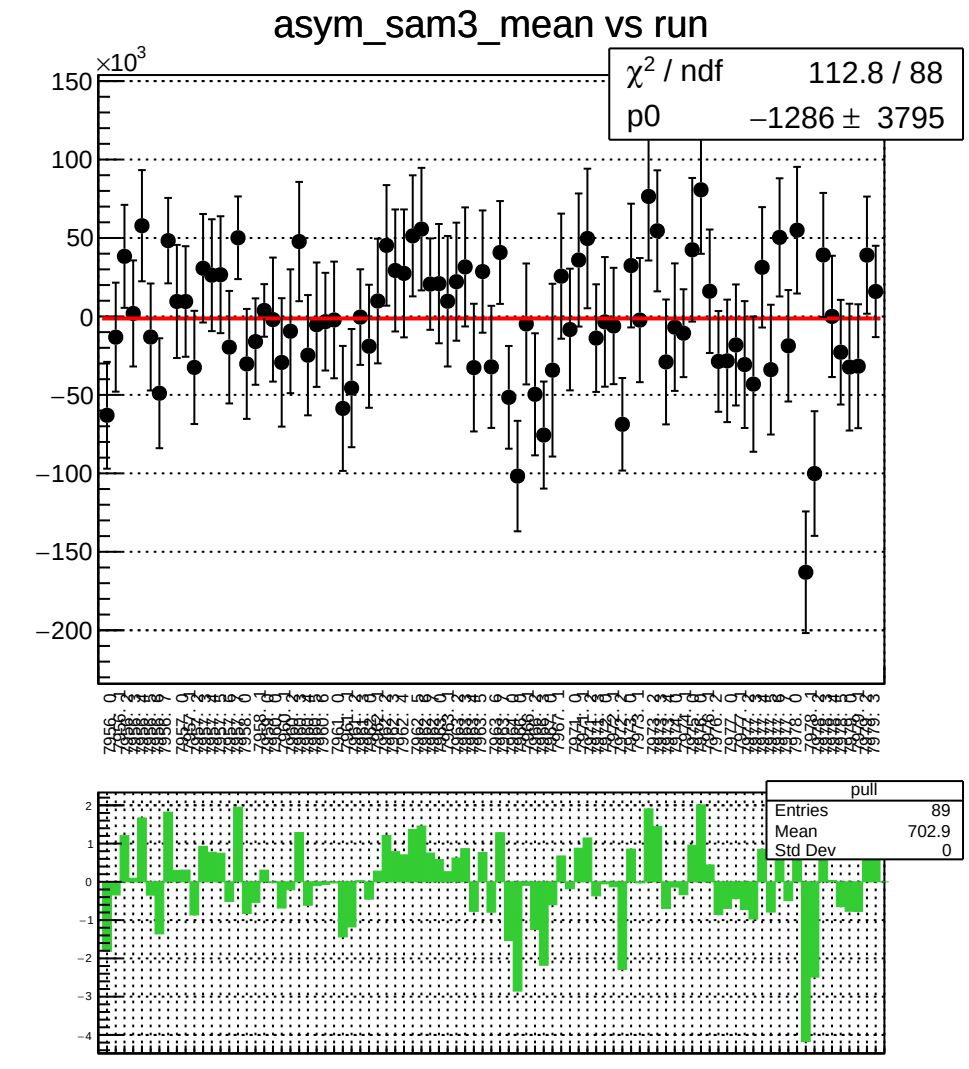

pull1D
Entries 89
Mean −0.03555
Std Dev 1.063

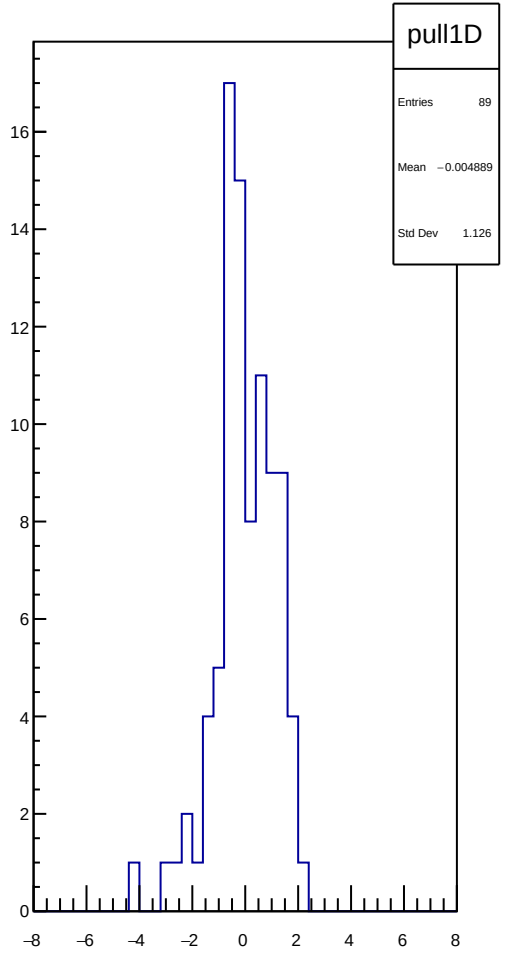

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.492e+05 / 88
p0 504.8 ± 0.394
1800
1600
1400
1200
1000
800
600
400

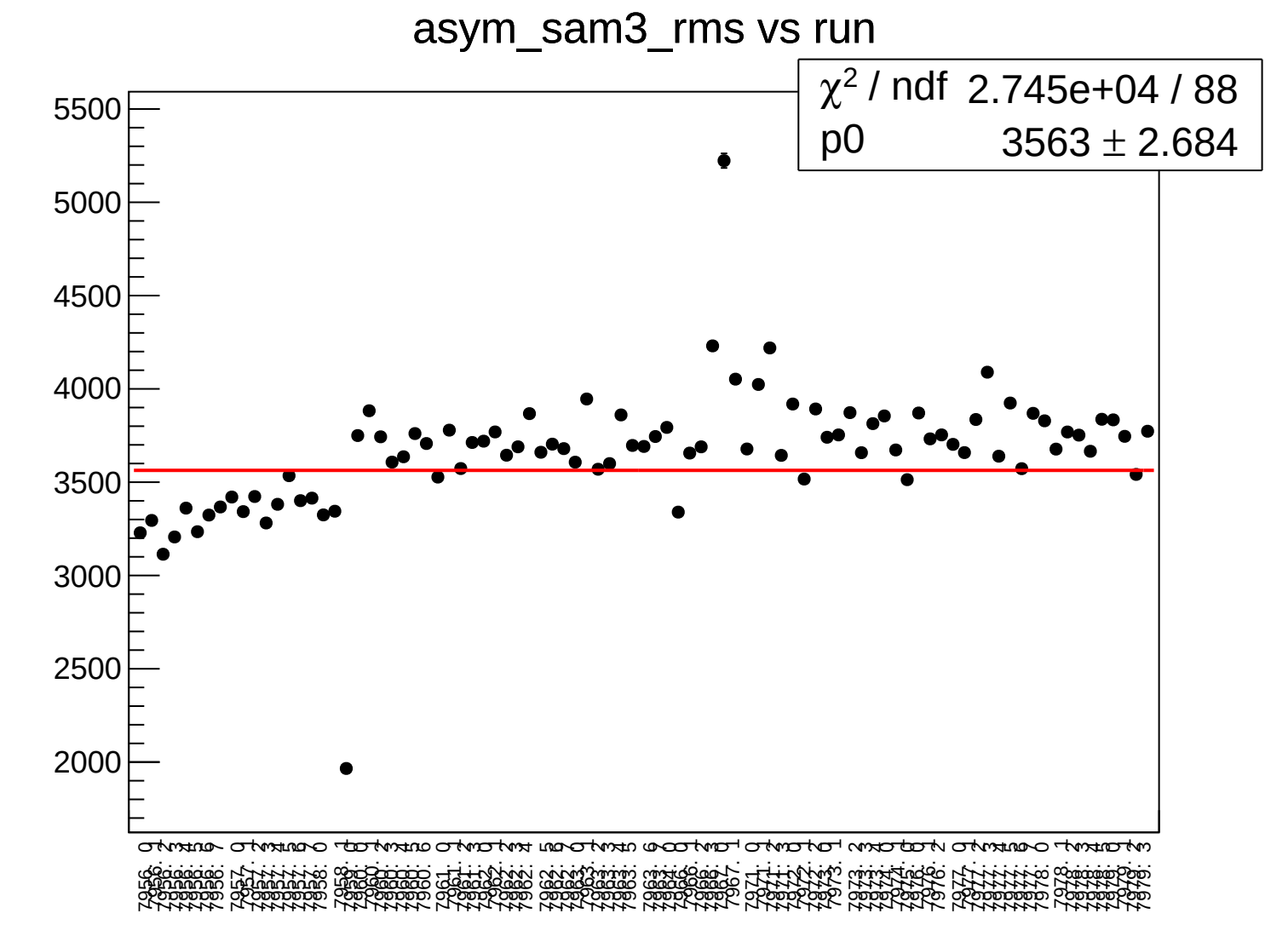

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 112.3 / 88
p0 1484 ± 3490
150
100
50
0
−50
−100
pull
Entries 89
Mean −1527
Std Dev 0
4
3
2
1
0
−1
−2

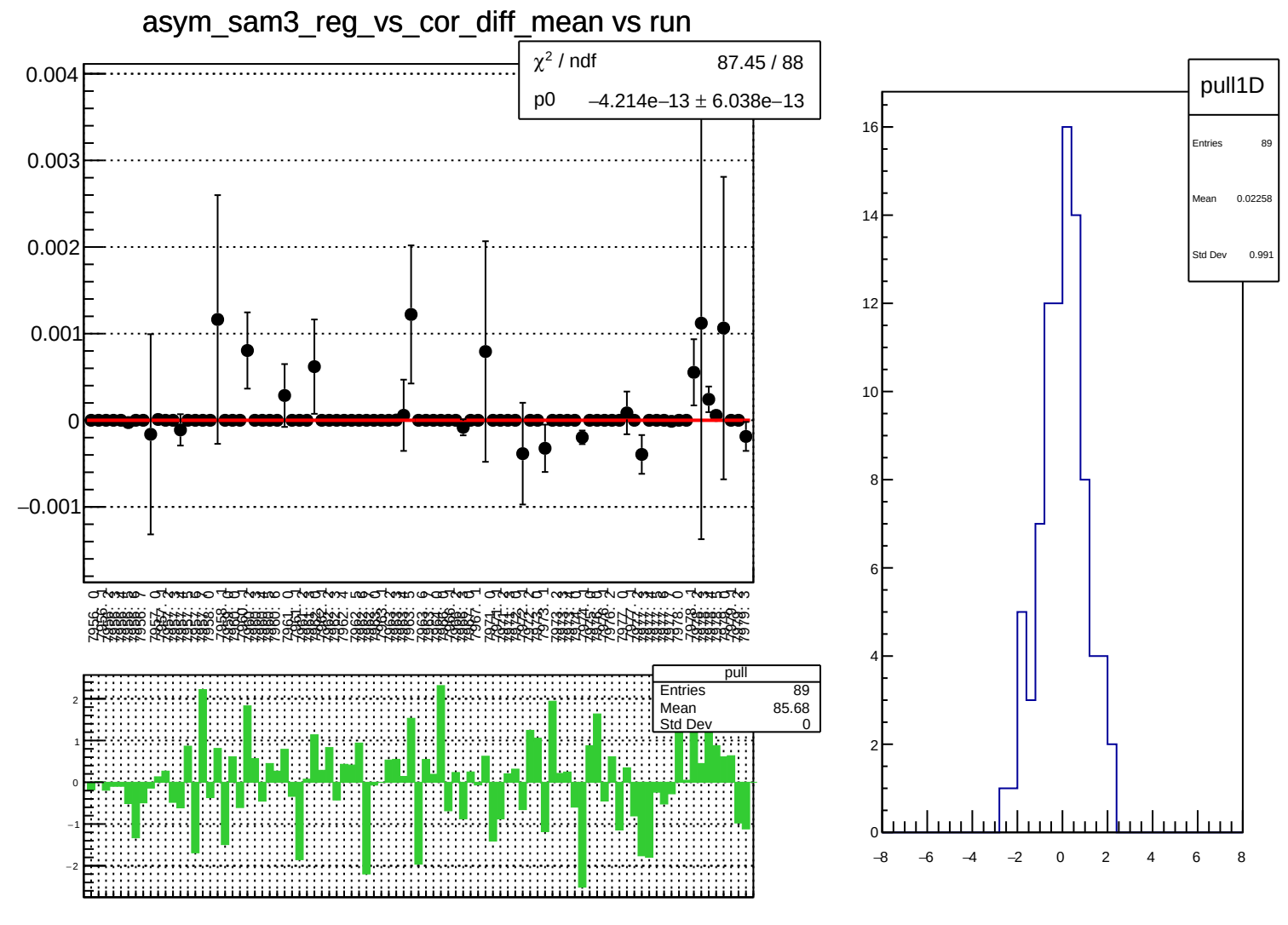

pull1D
Entries 89
Mean −0.002101
Std Dev 1.123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

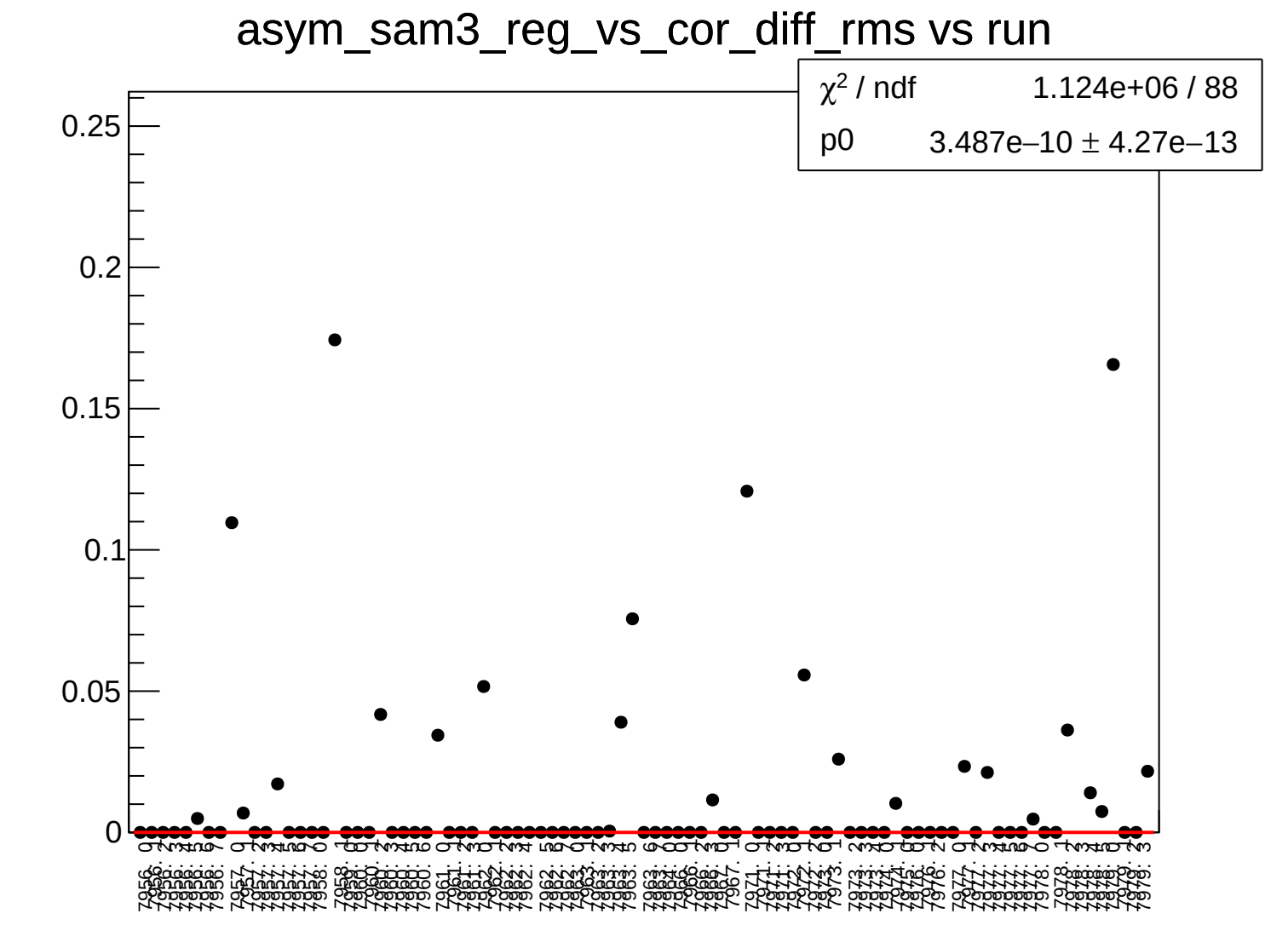

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.226e+04 / 88
p0 3291 ± 2.468
4200
4000
3800
3600
3400
3200
3000
2800

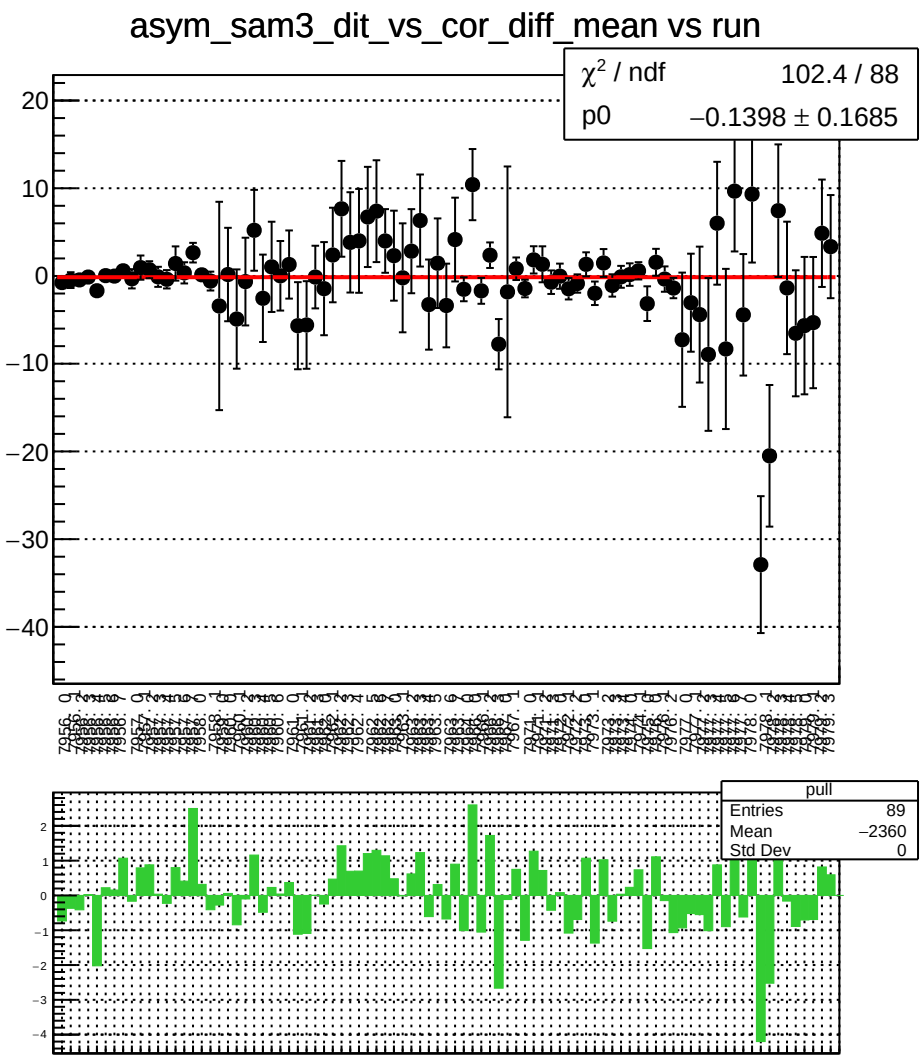

asym_sam3_mean vs run
×10^3
χ² / ndf 112.8 / 88
p0 −1286 ± 3795
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 702.9
Std Dev 0
2
1
0
−1
−2
−3
−4

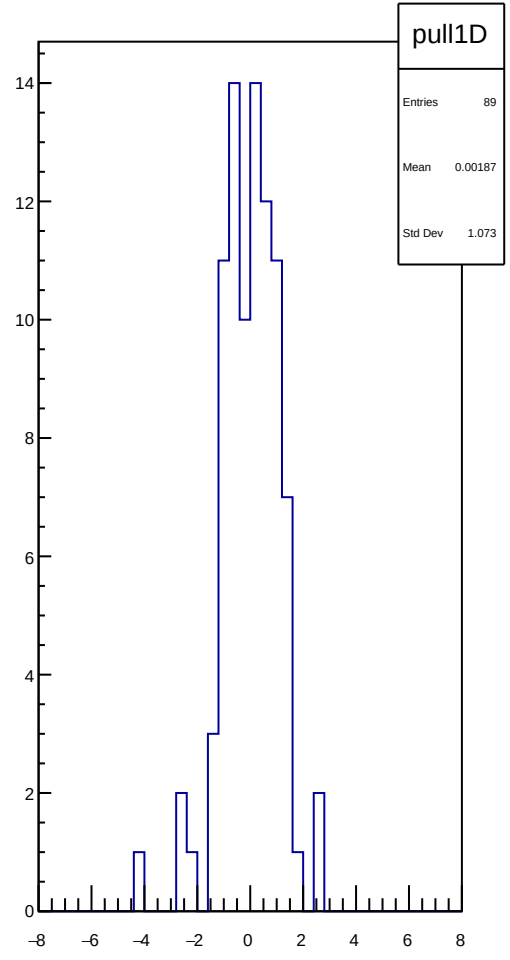

pull1D
Entries 89
Mean −0.004889
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

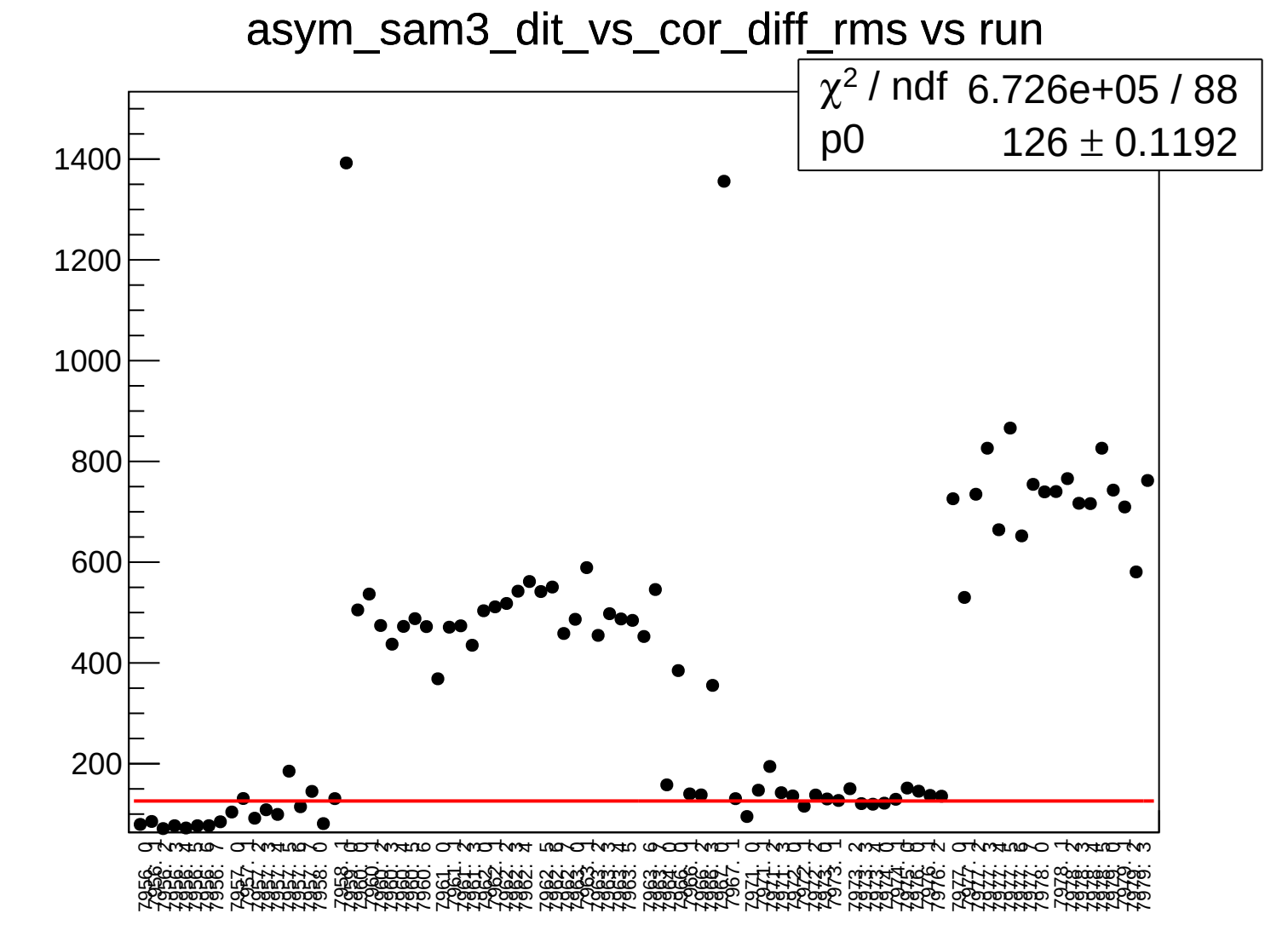

asym_sam3_rms vs run
$\chi^2$ / ndf 2.745e+04 / 88
p0 3563 ± 2.684
5500
5000
4500
4000
3500
3000
2500
2000

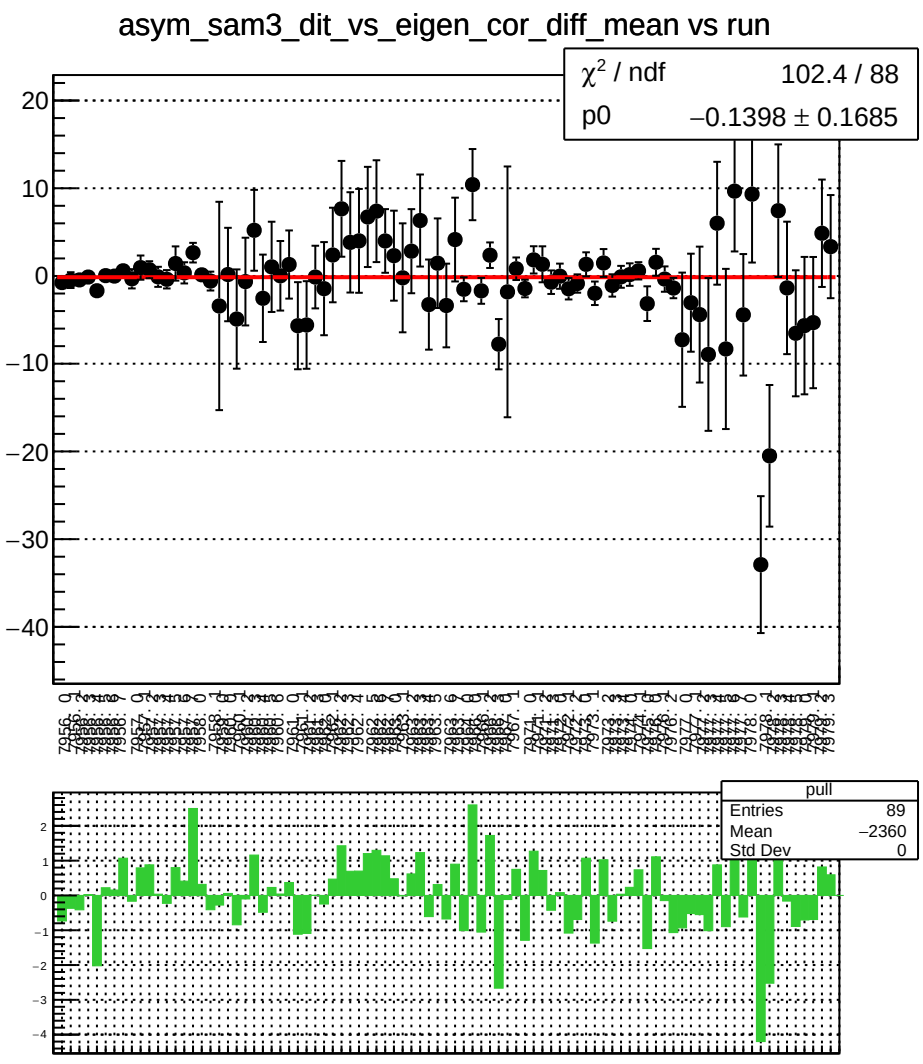

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 87.45 / 88
p0 −4.214e−13 ± 6.038e−13
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 89
Mean 85.68
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02258
Std Dev 0.991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

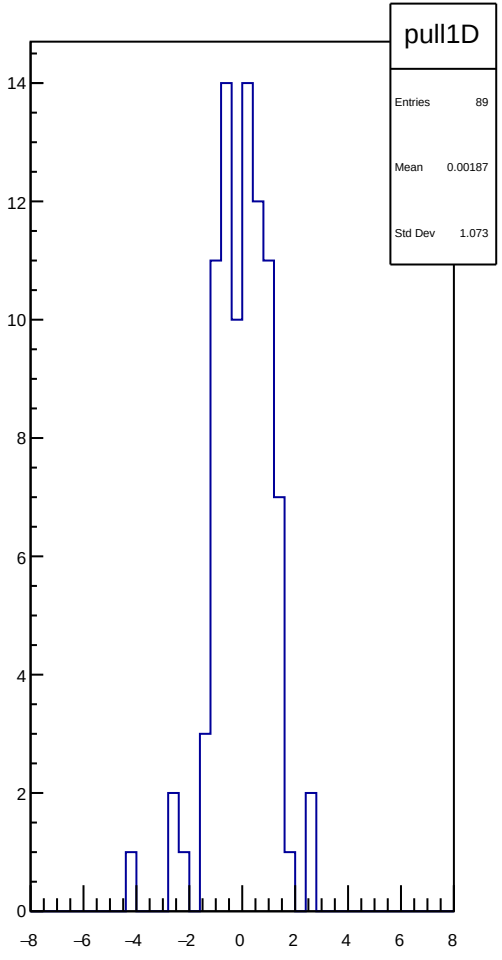

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.124e+06 / 88
p0 3.487e−10 ± 4.27e−13
0.25
0.2
0.15
0.1
0.05
0

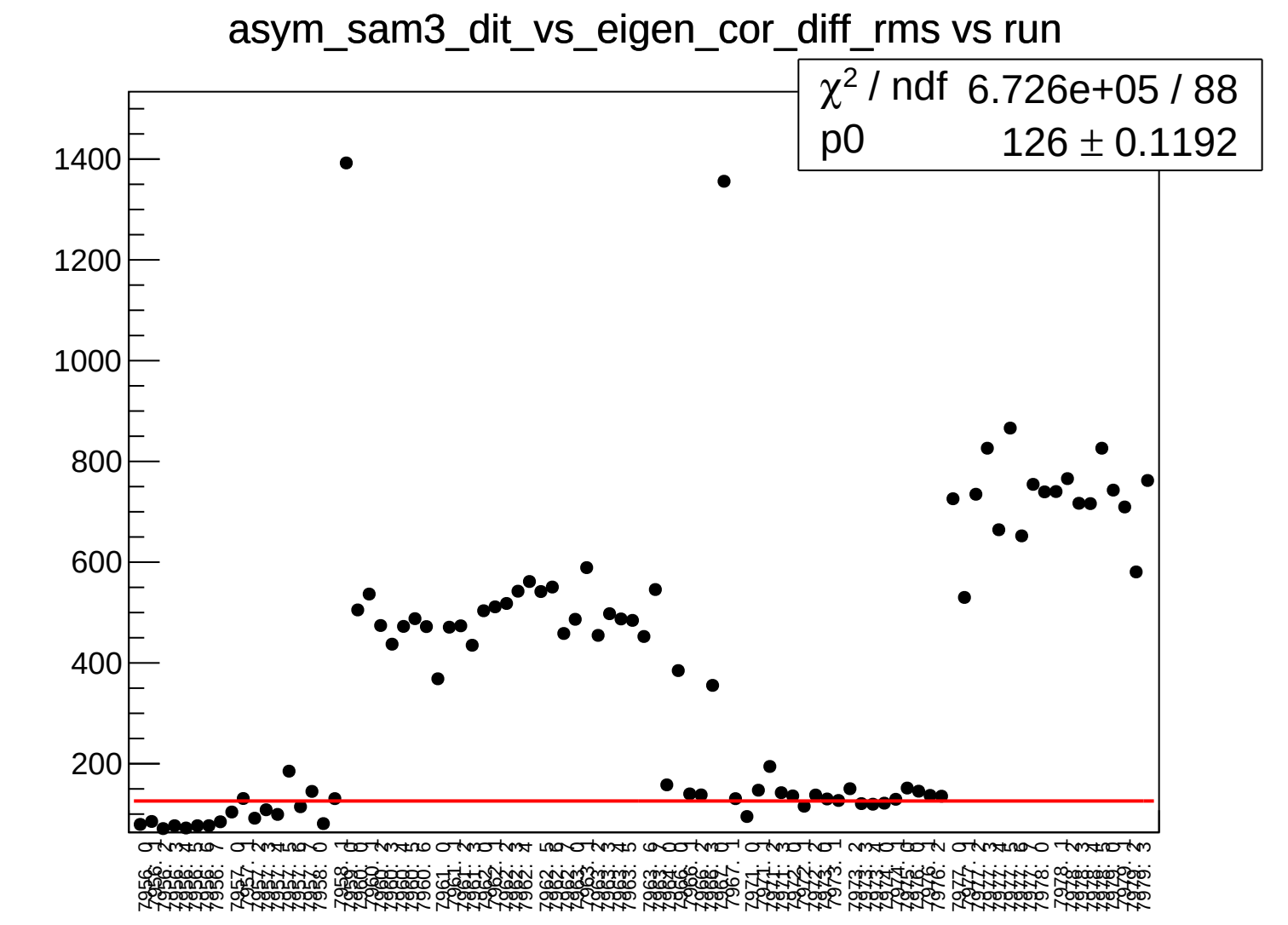

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 88
p0 −0.1398 ± 0.1685
pull
Entries 89
Mean −2360
Std Dev 0

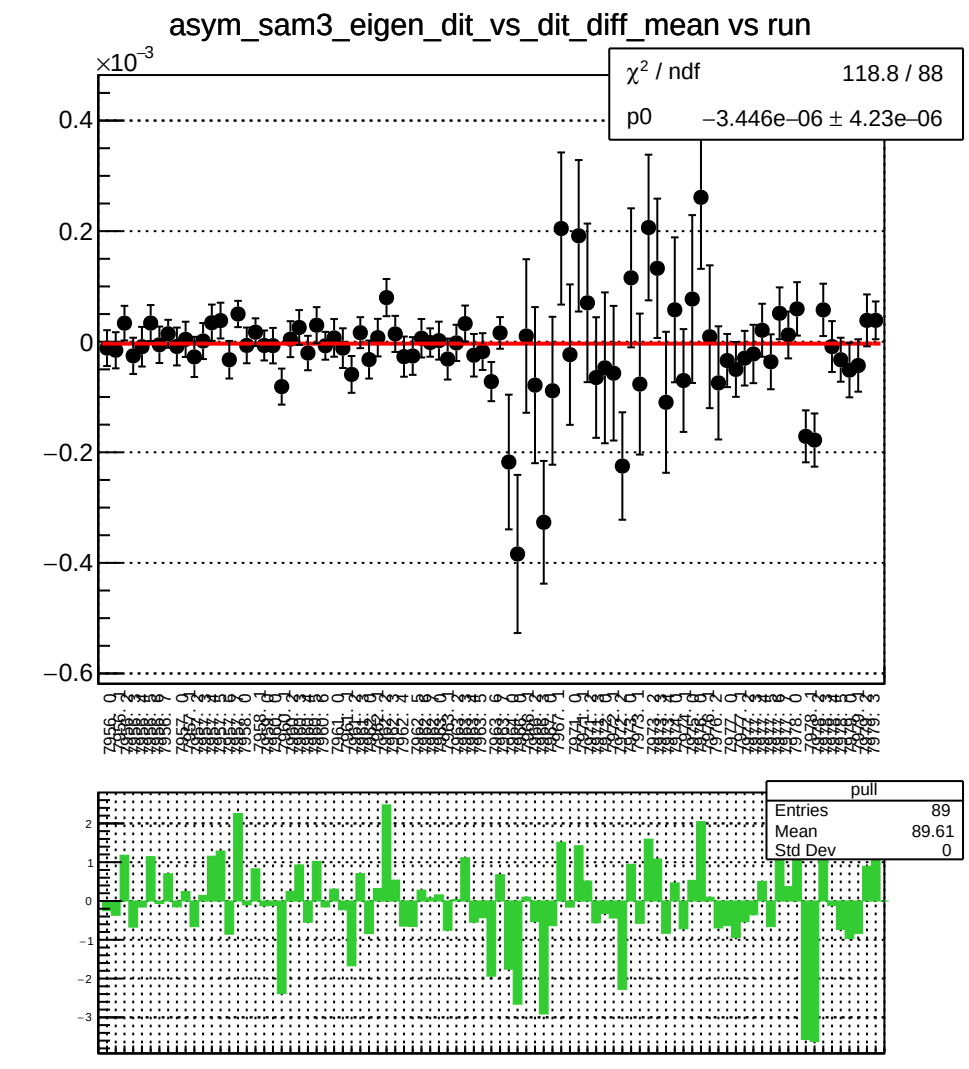

pull1D
Entries 89
Mean 0.00187
Std Dev 1.073

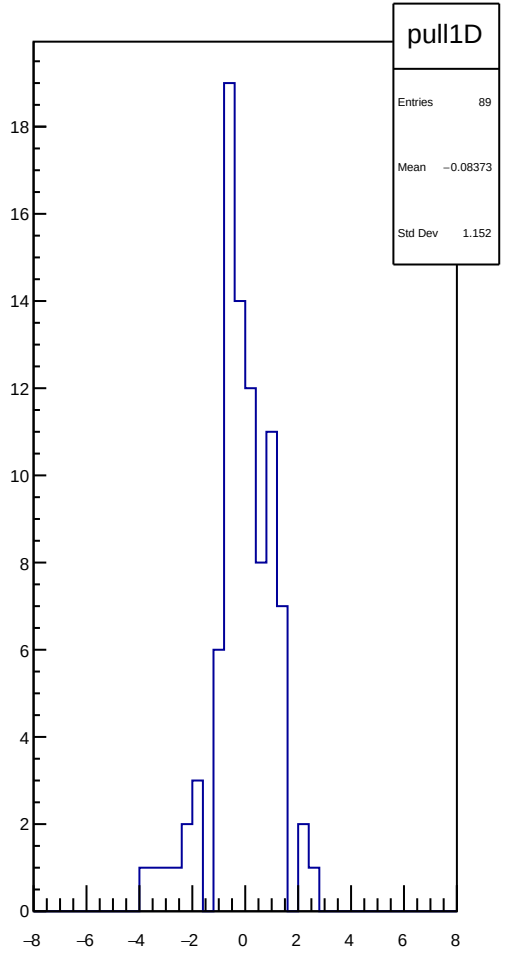

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 6.726e+05 / 88
p0 126 ± 0.1192
1400
1200
1000
800
600
400
200

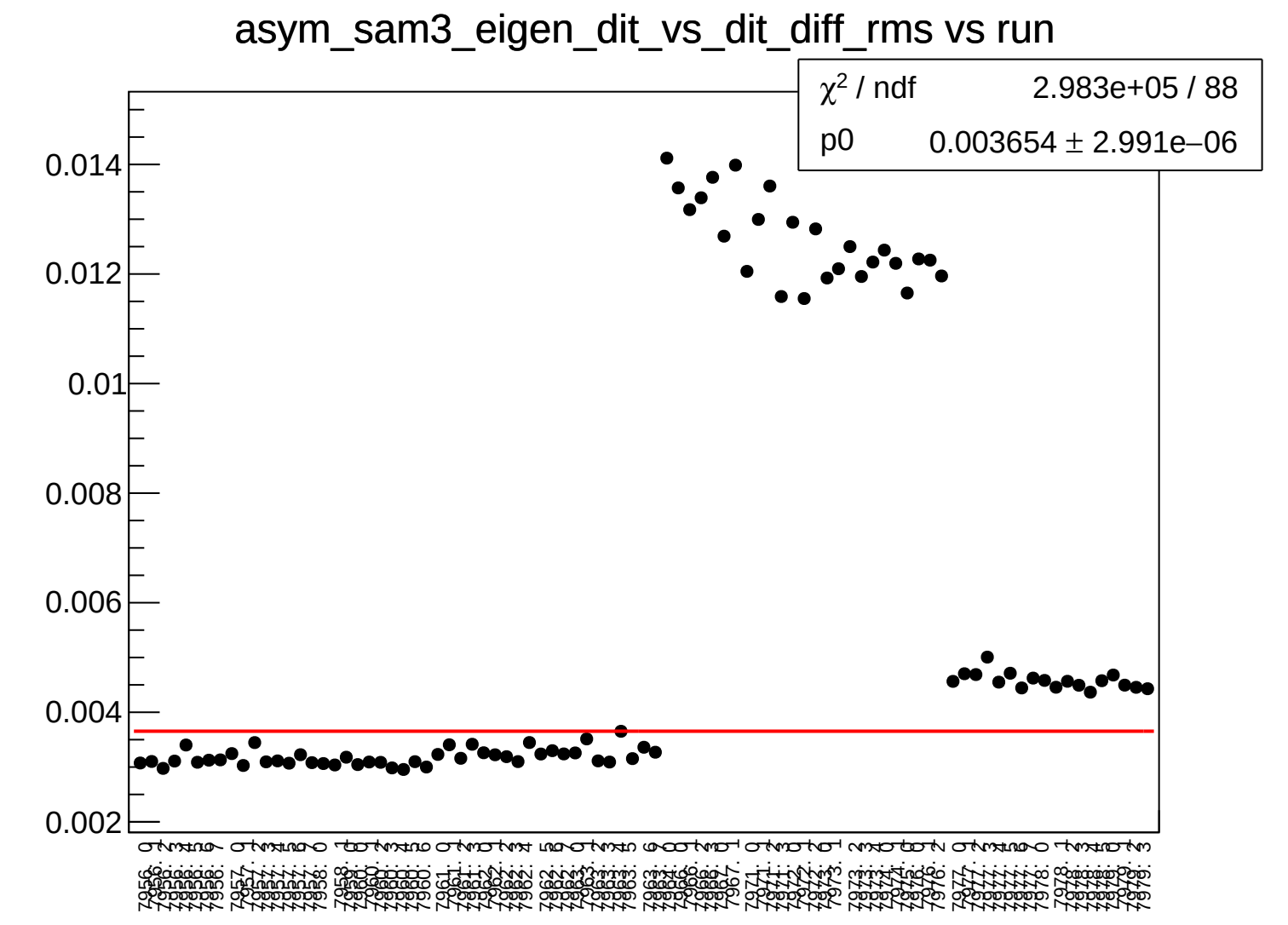

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.4 / 88
p0 −0.1398 ± 0.1685
pull
Entries 89
Mean −2360
Std Dev 0

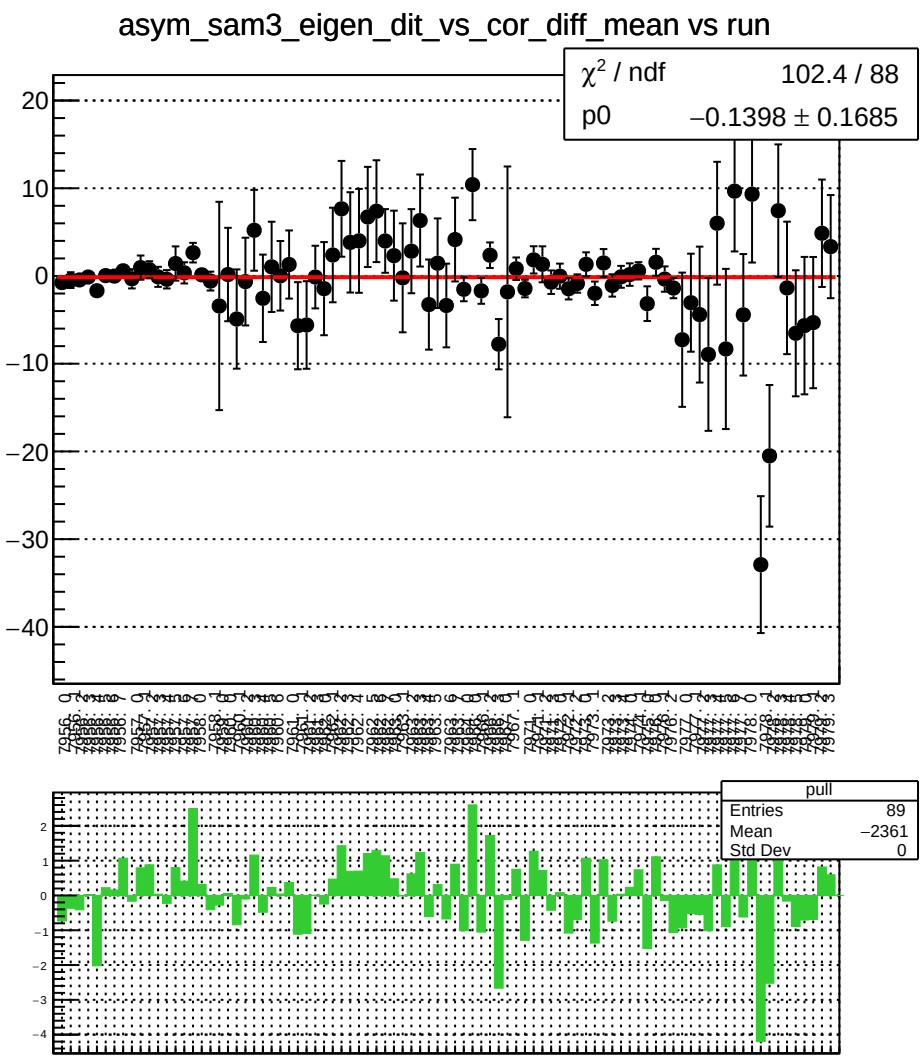

pull1D
Entries 89
Mean 0.00187
Std Dev 1.073

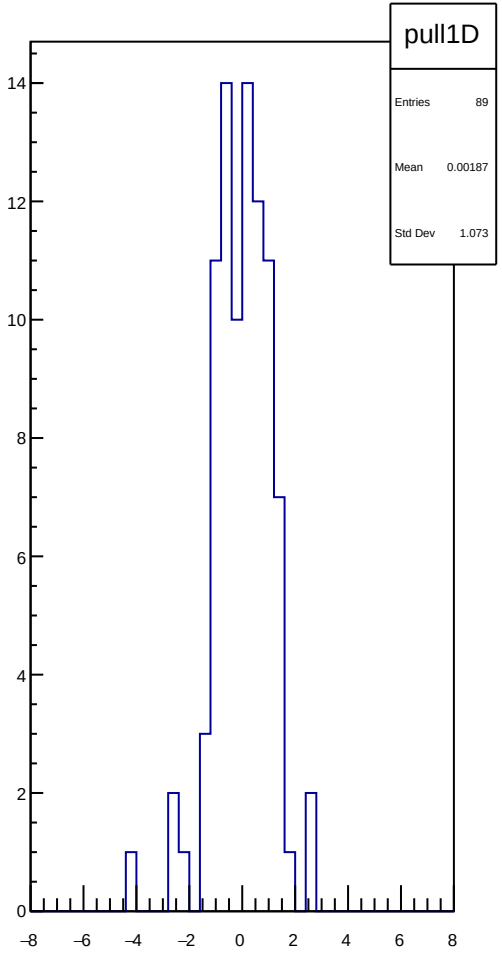

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.726e+05 / 88
p0 126 ± 0.1192
1400
1200
1000
800
600
400
200

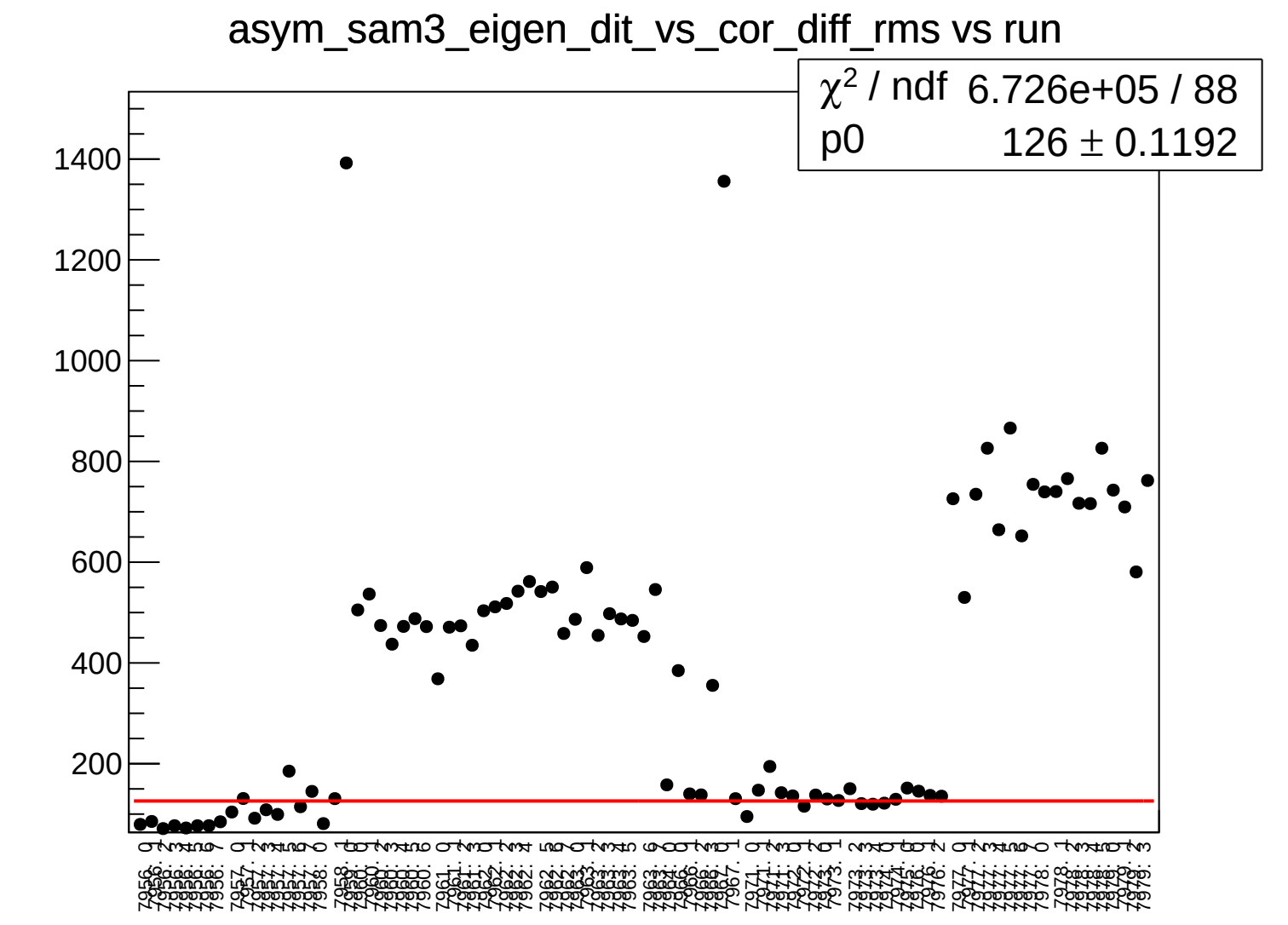

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.8 / 88
p0 −3.446e−06 ± 4.23e−06
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 89
Mean 89.61
Std Dev 0
2
1
0
−1
−2
−3

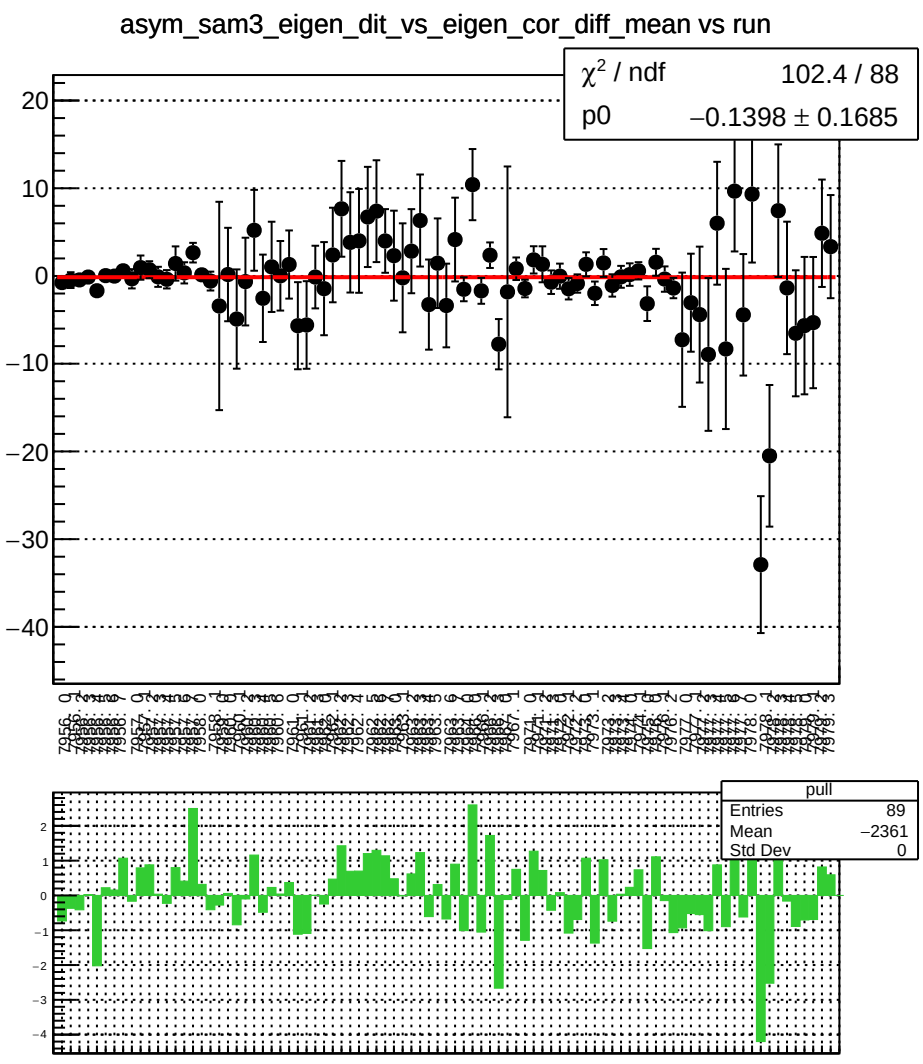

pull1D
Entries 89
Mean −0.08373
Std Dev 1.152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

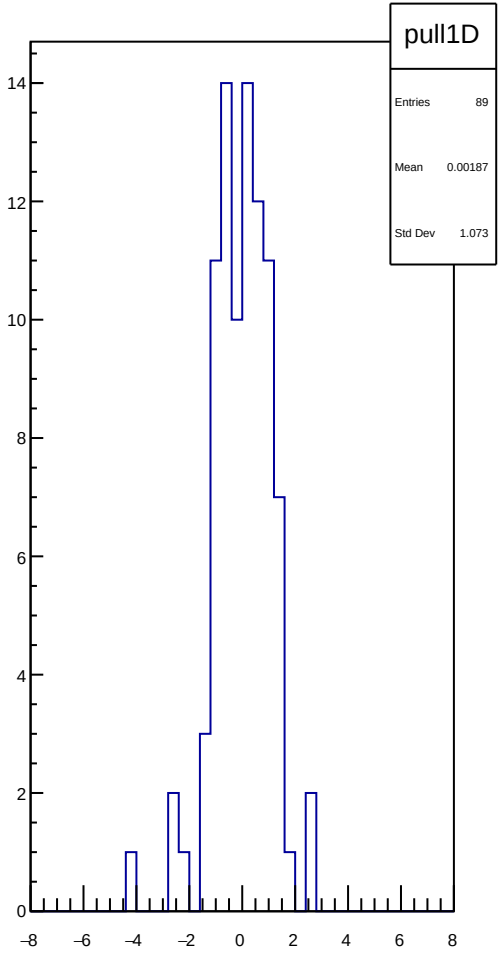

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.983e+05 / 88
p0 0.003654 ± 2.991e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

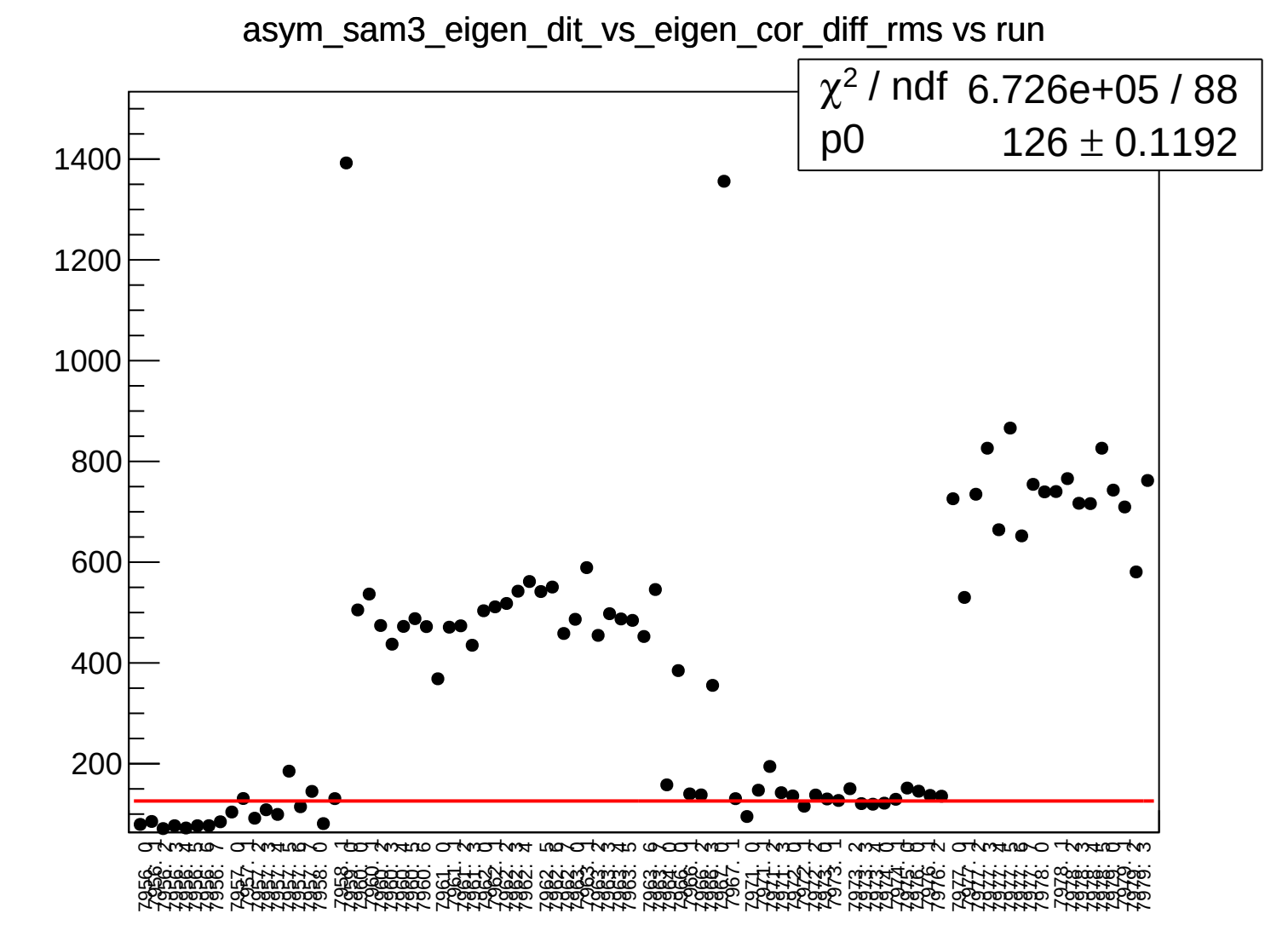

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 88
p0 −0.1398 ± 0.1685
pull
Entries 89
Mean −2361
Std Dev 0

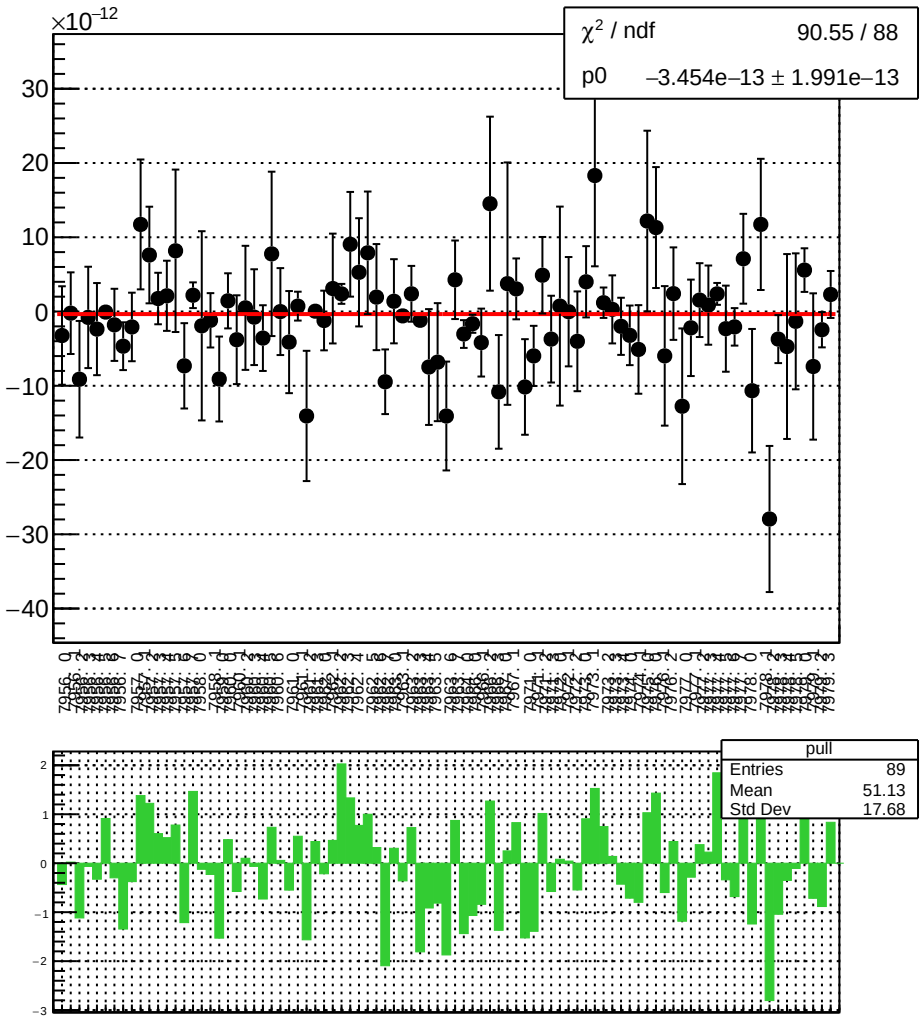

pull1D
Entries 89
Mean 0.00187
Std Dev 1.073

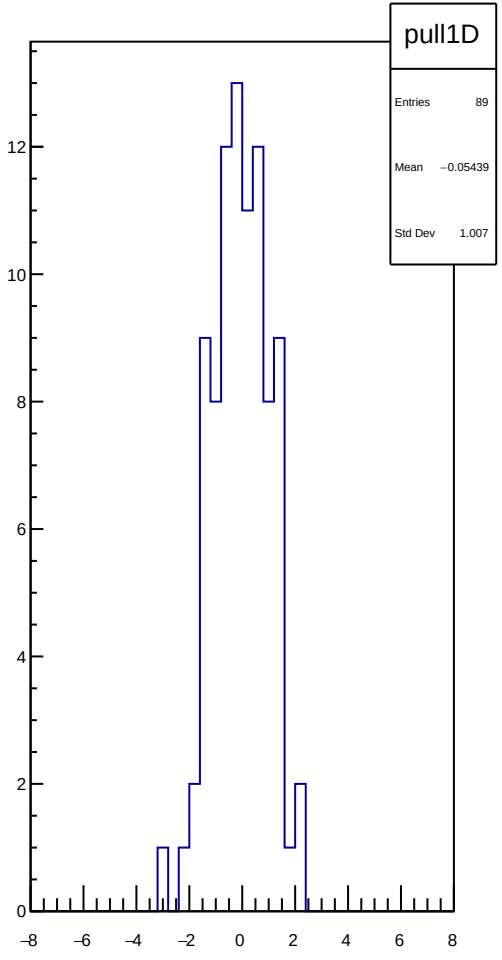

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.726e+05 / 88
p0 126 ± 0.1192
1400
1200
1000
800
600
400
200

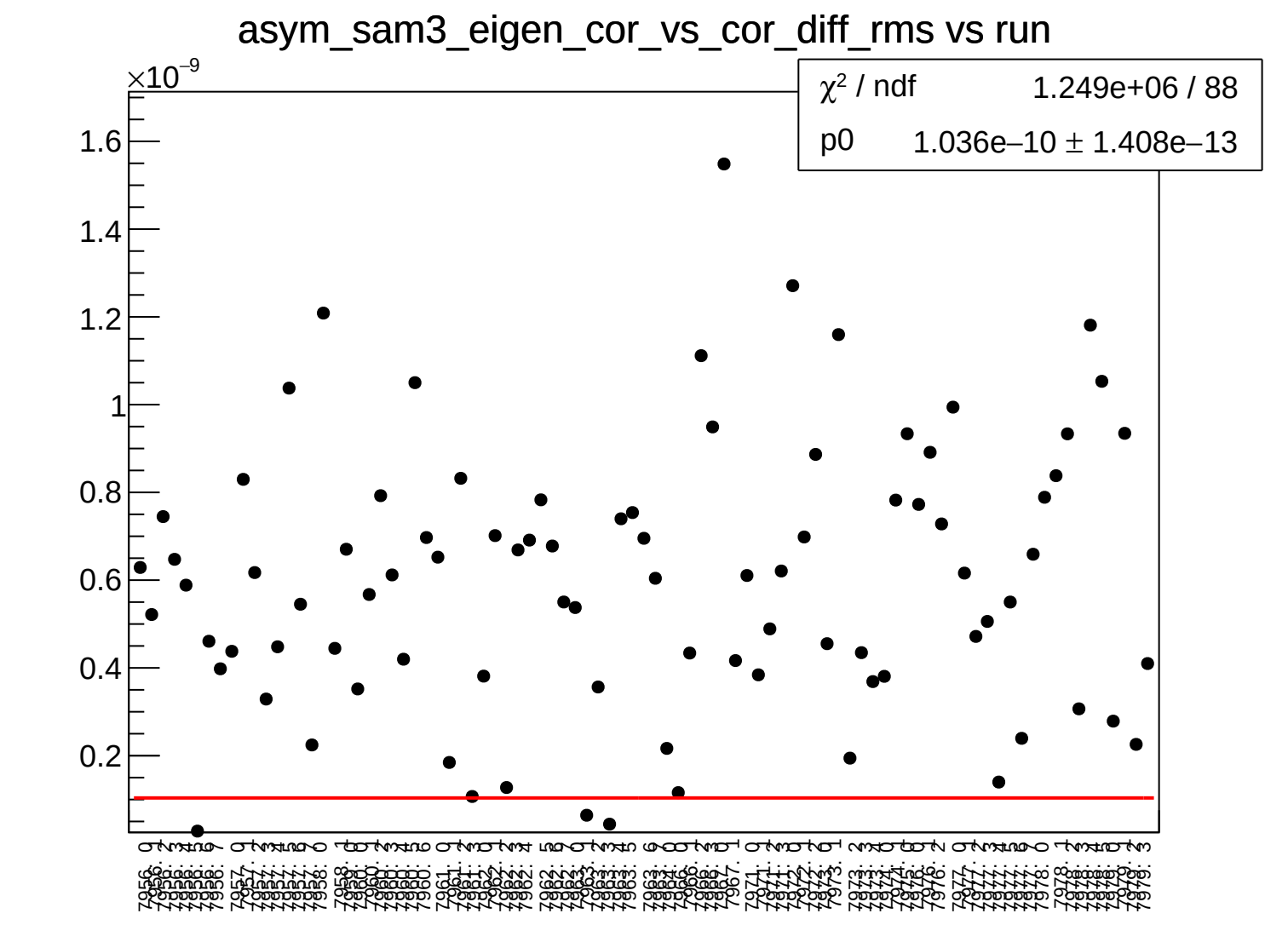

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.4 / 88
p0 −0.1398 ± 0.1685
pull
Entries 89
Mean −2361
Std Dev 0

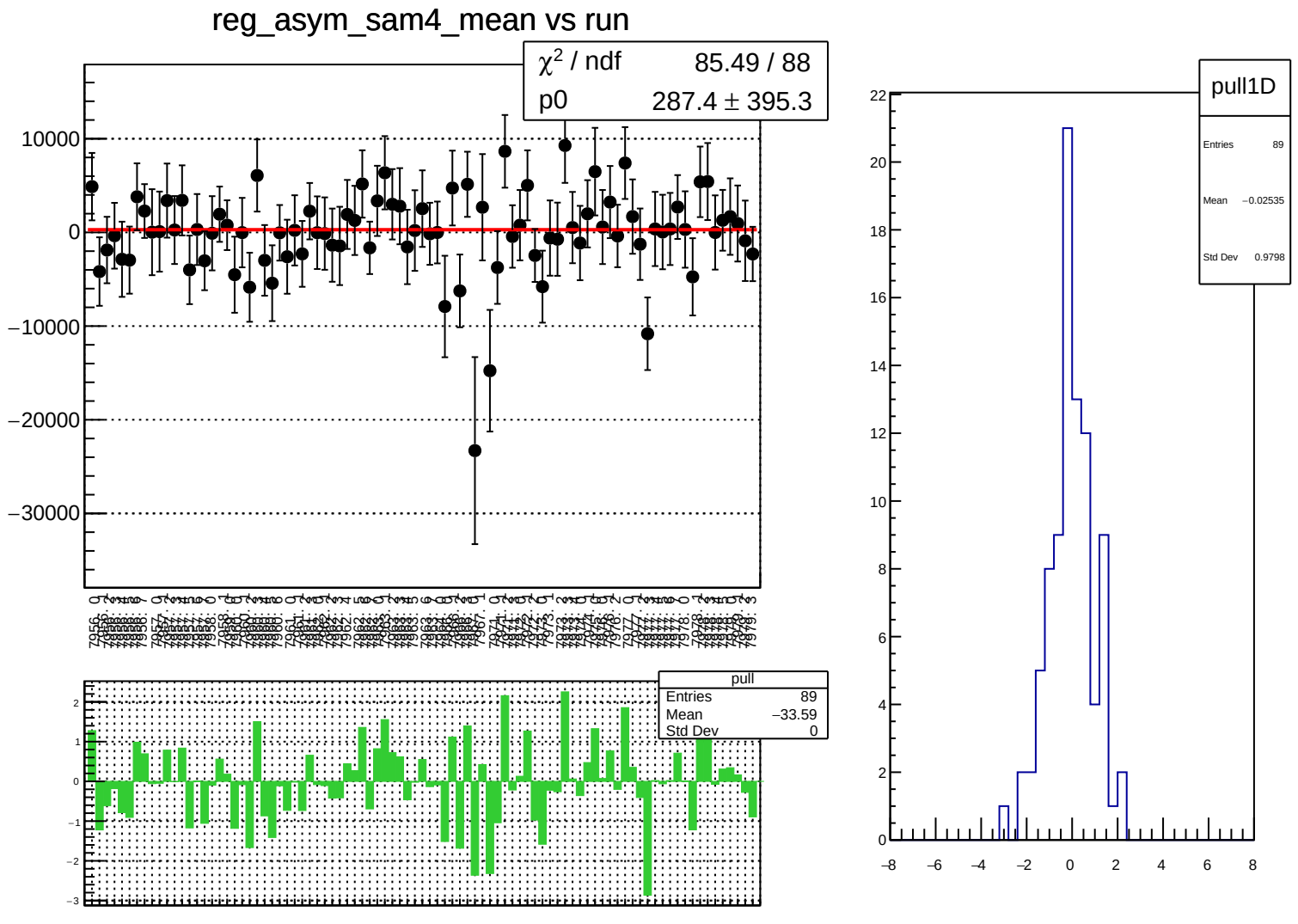

pull1D
Entries 89
Mean 0.00187
Std Dev 1.073

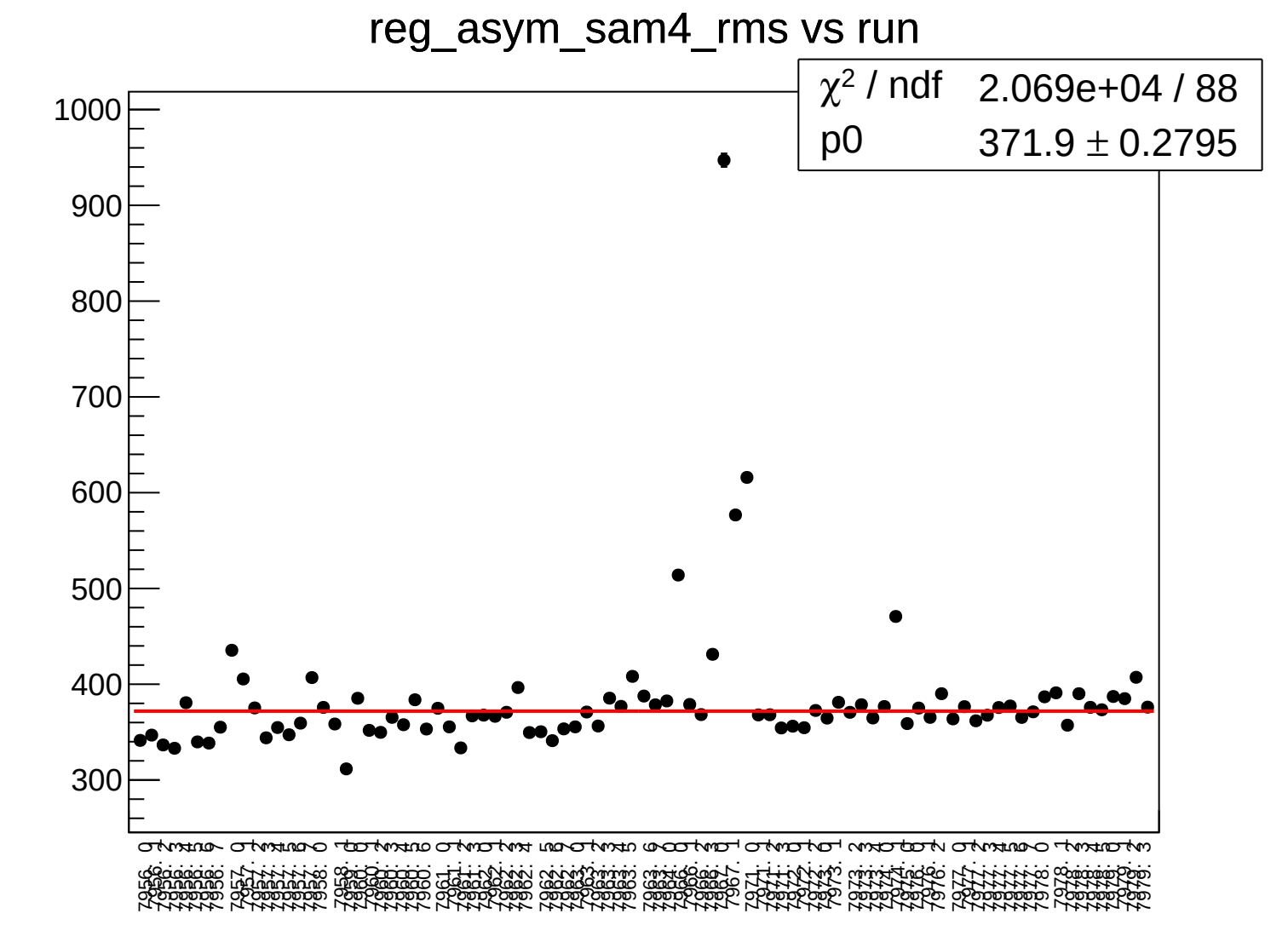

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.726e+05 / 88
p0 126 ± 0.1192
1400
1200
1000
800
600
400
200

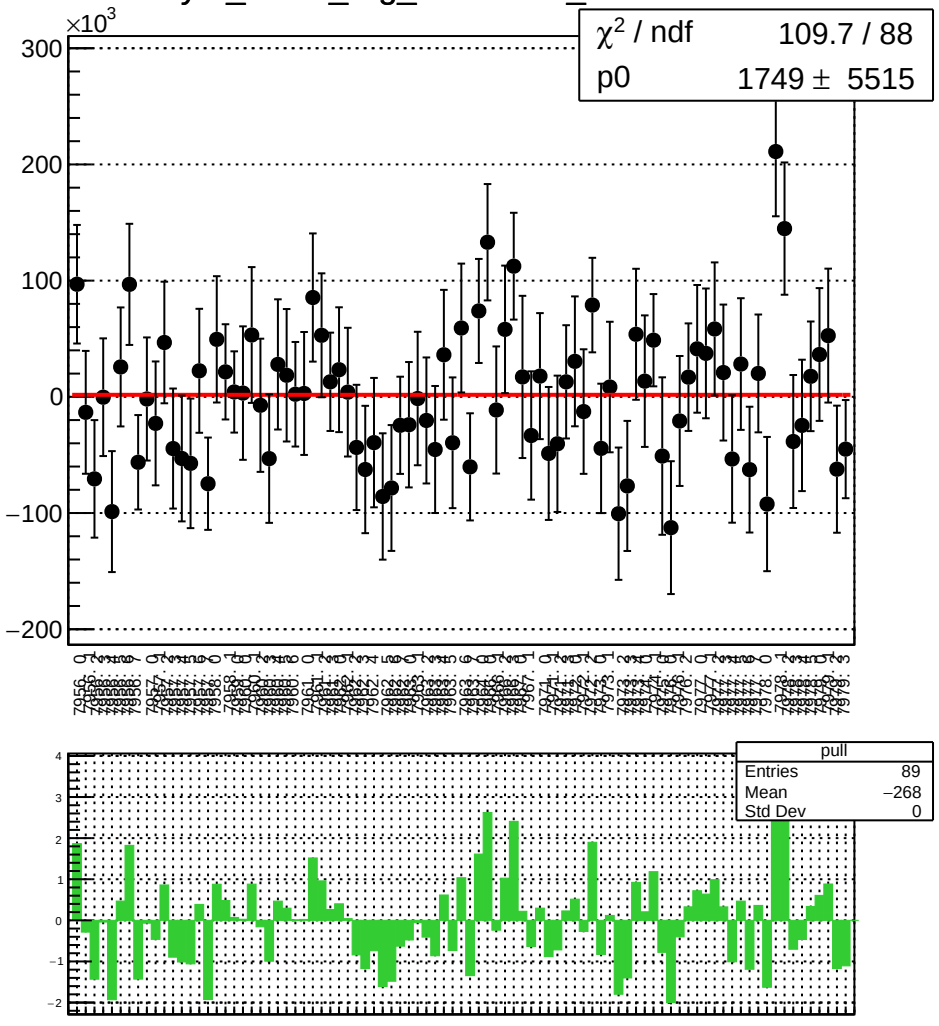

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.55 / 88
p0 −3.454e−13 ± 1.991e−13
pull
Entries 89
Mean 51.13
Std Dev 17.68

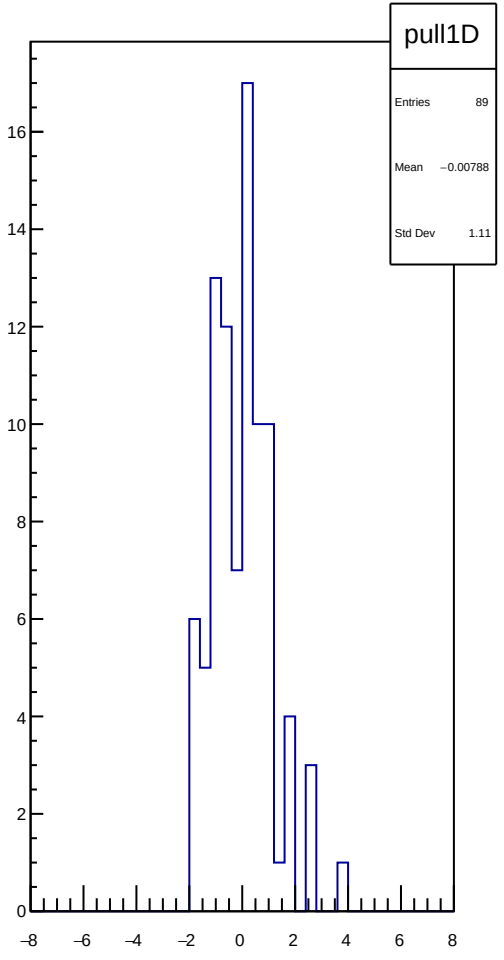

pull1D
Entries 89
Mean −0.05439
Std Dev 1.007

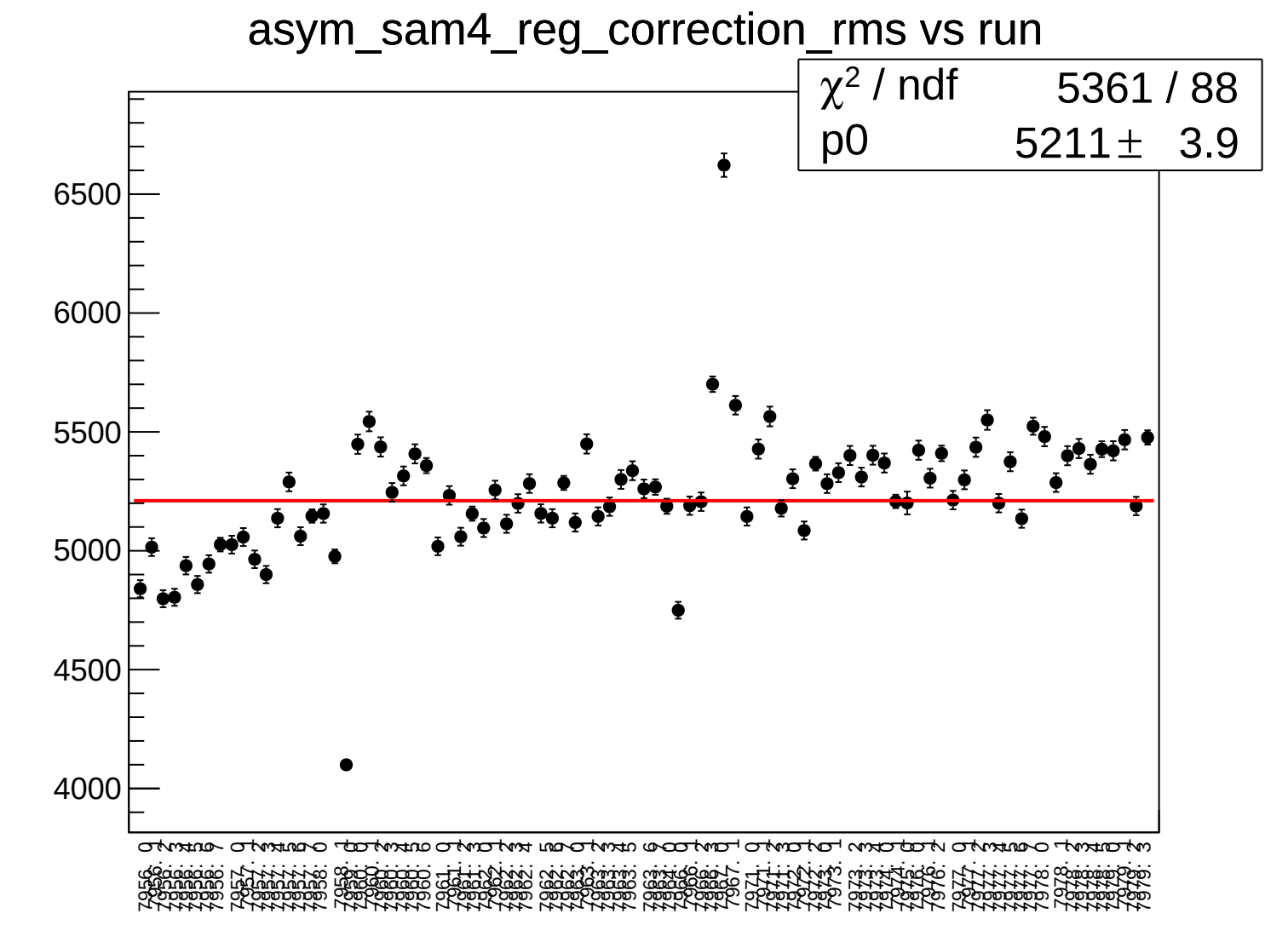

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.249e+06 / 88
p0 1.036e−10 ± 1.408e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

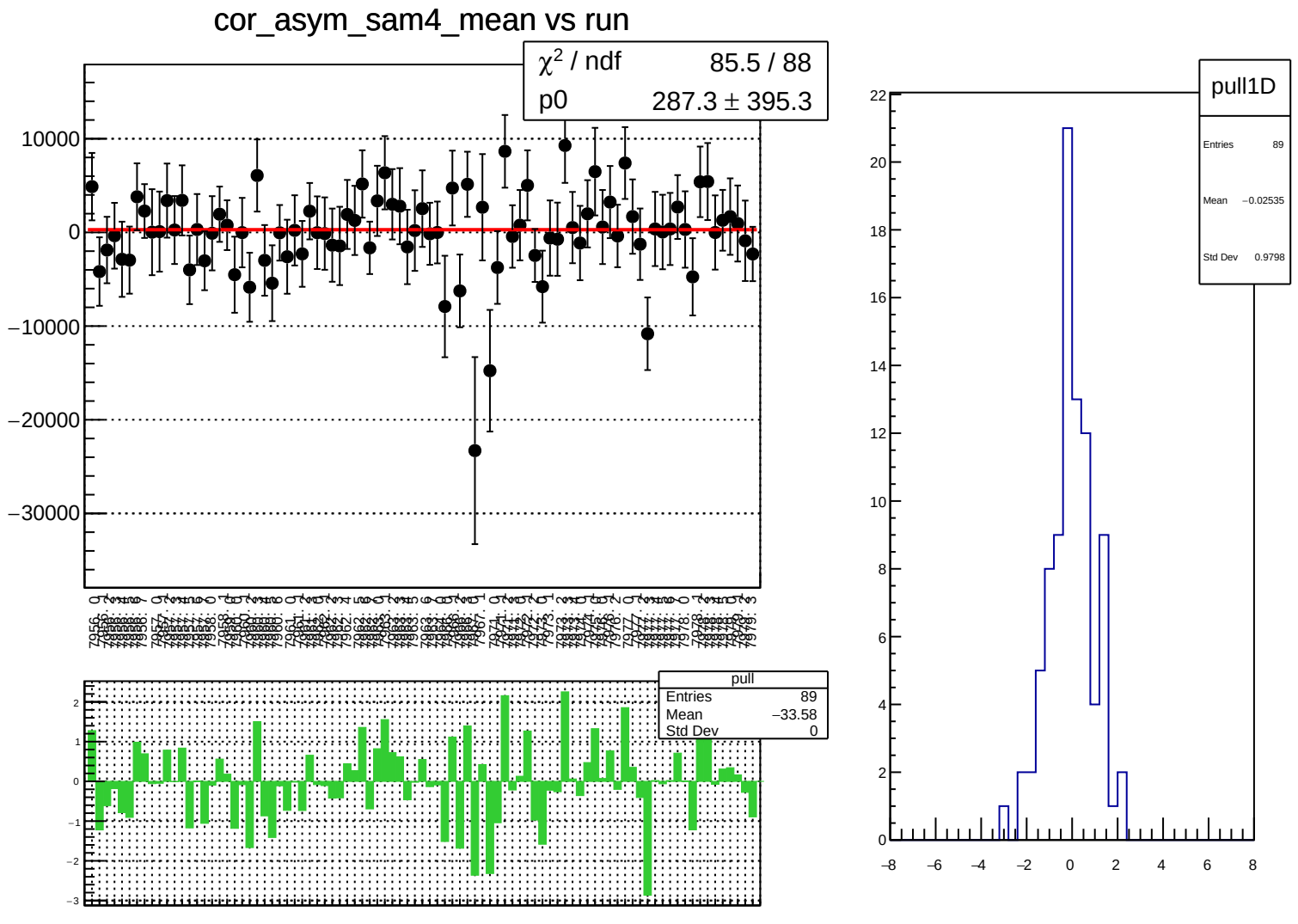

reg_asym_sam4_mean vs run
χ² / ndf 85.49 / 88
p0 287.4 ± 395.3
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −33.59
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.02535
Std Dev 0.9798
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

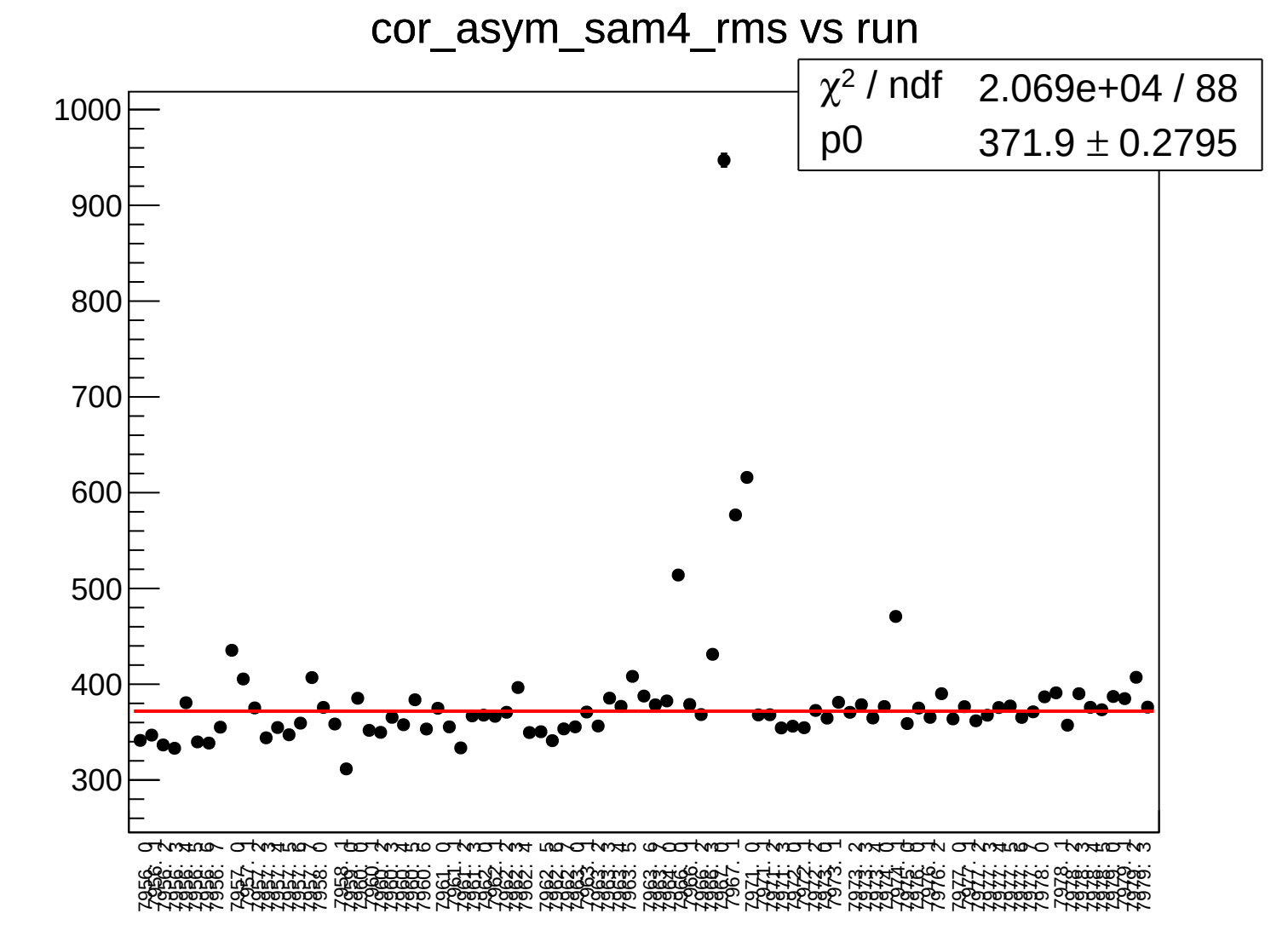

reg_asym_sam4_rms vs run
χ² / ndf 2.069e+04 / 88
p0 371.9 ± 0.2795
1000
900
800
700
600
500
400
300

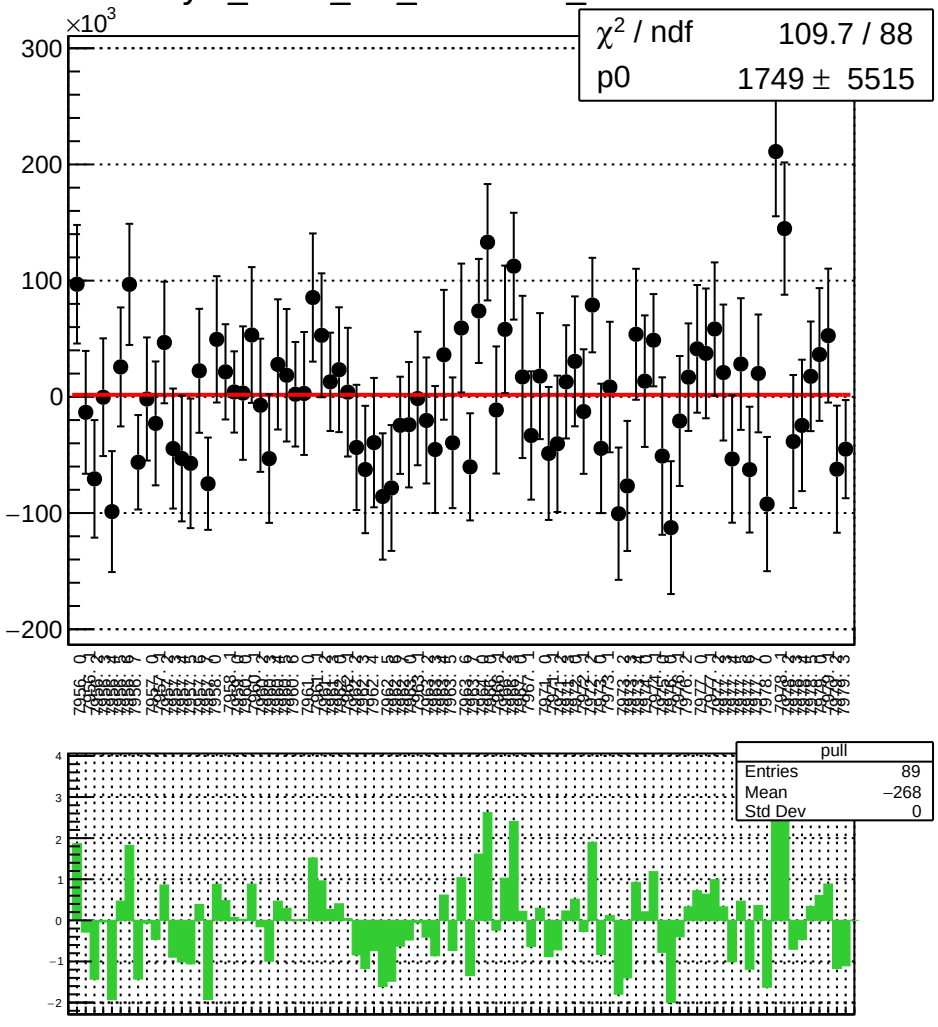

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 109.7 / 88
p0 1749 ± 5515
pull
Entries 89
Mean −268
Std Dev 0

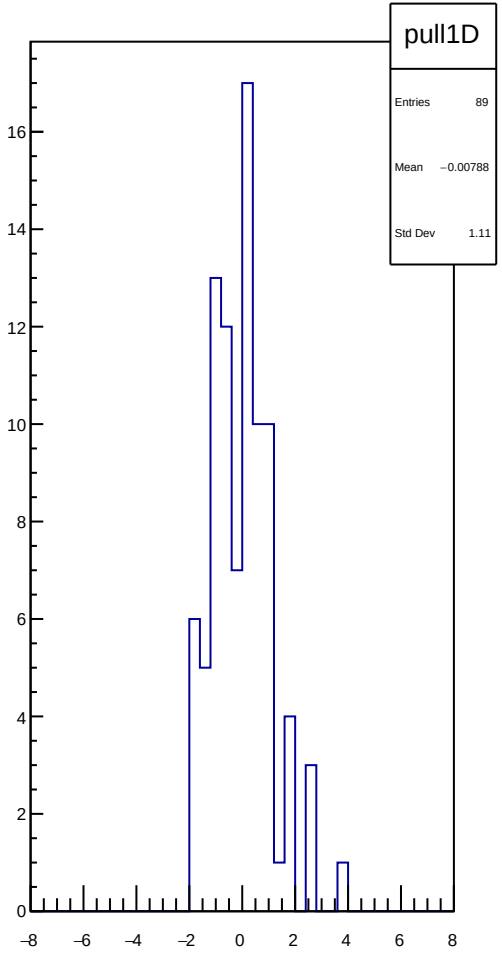

pull1D
Entries 89
Mean −0.00788
Std Dev 1.11

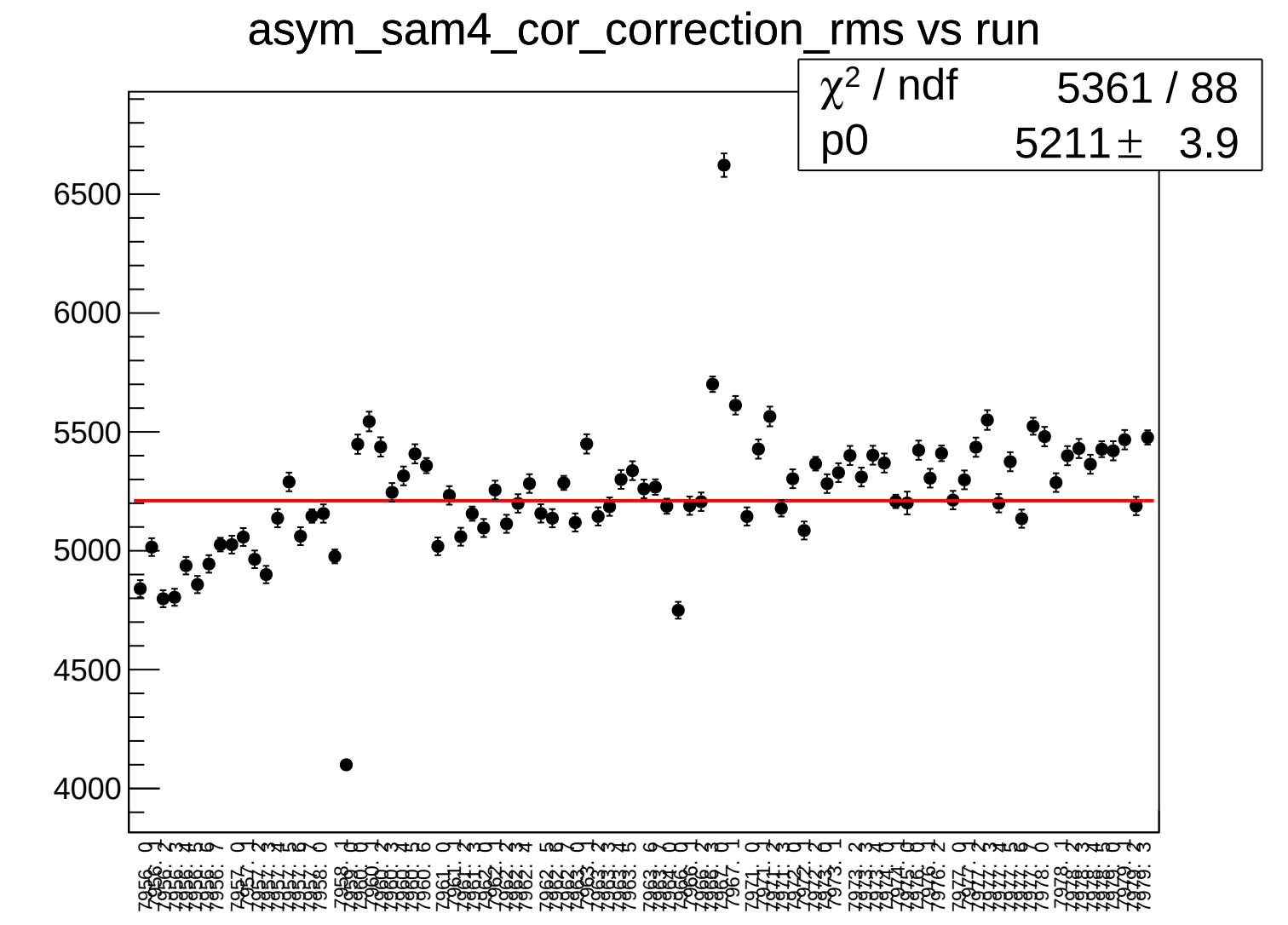

asym_sam4_reg_correction_rms vs run
χ² / ndf 5361 / 88
p0 5211 ± 3.9
6500
6000
5500
5000
4500
4000

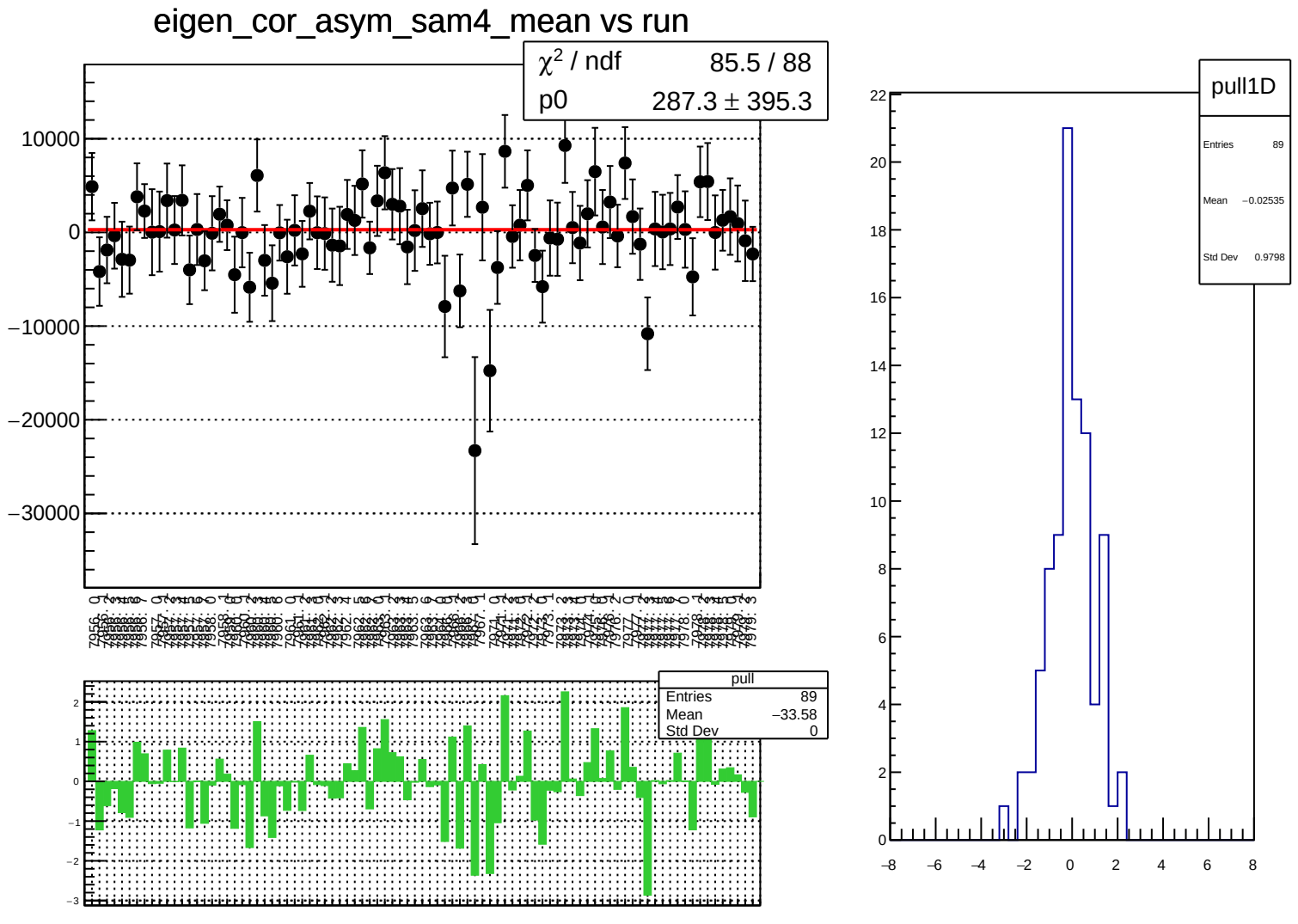

cor_asym_sam4_mean vs run
χ² / ndf 85.5 / 88
p0 287.3 ± 395.3
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −33.58
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.02535
Std Dev 0.9798
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

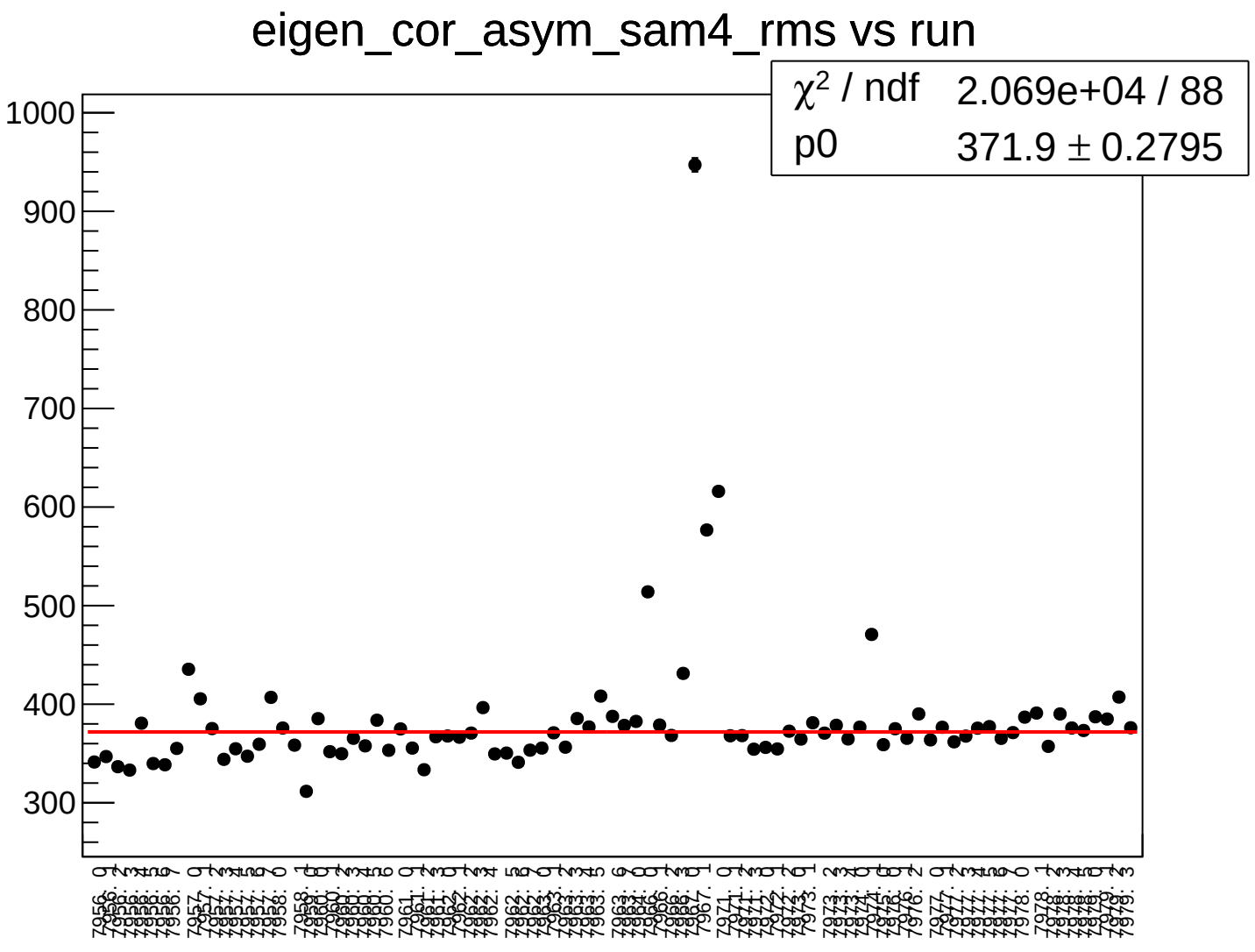

cor_asym_sam4_rms vs run
$\chi^2$ / ndf 2.069e+04 / 88
p0 371.9 ± 0.2795
1000
900
800
700
600
500
400
300

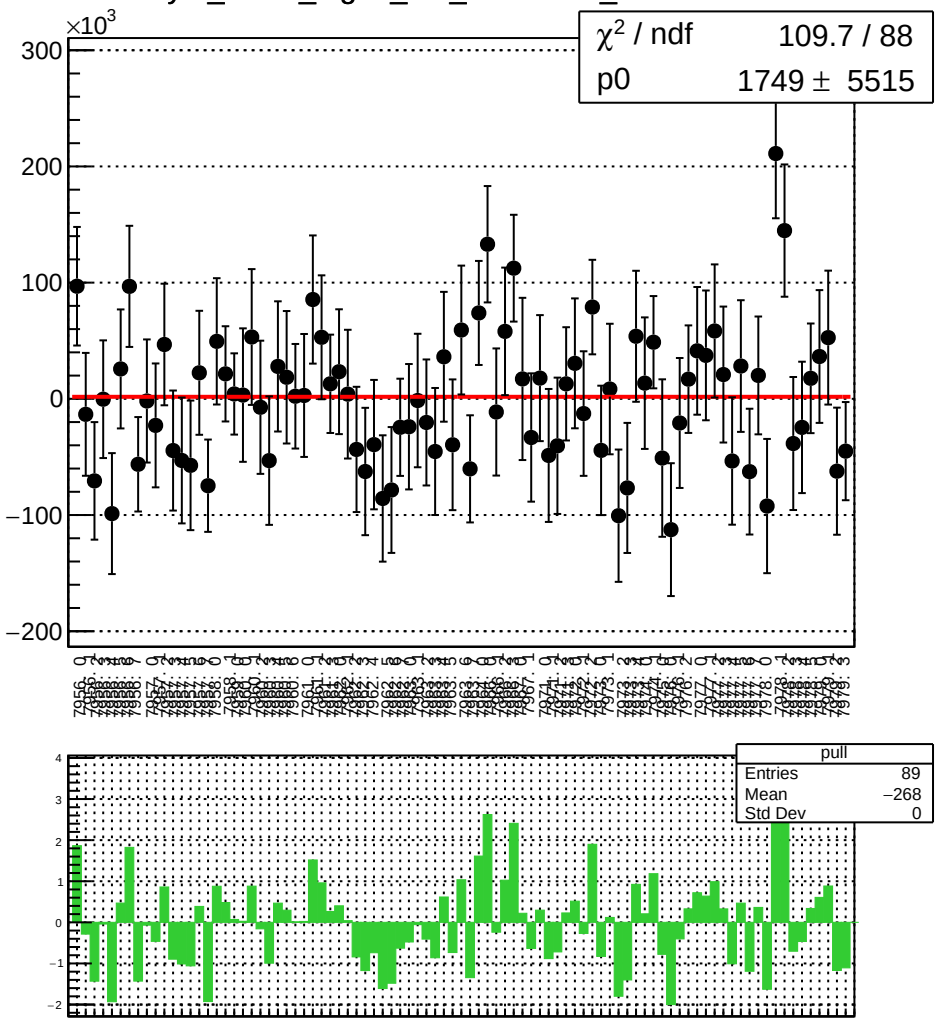

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 109.7 / 88
p0 1749 ± 5515
pull
Entries 89
Mean −268
Std Dev 0

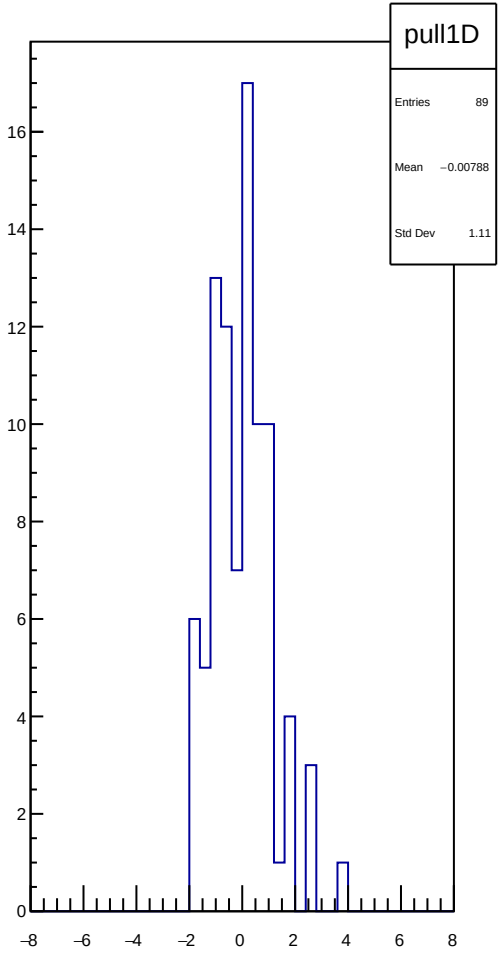

pull1D
Entries 89
Mean −0.00788
Std Dev 1.11

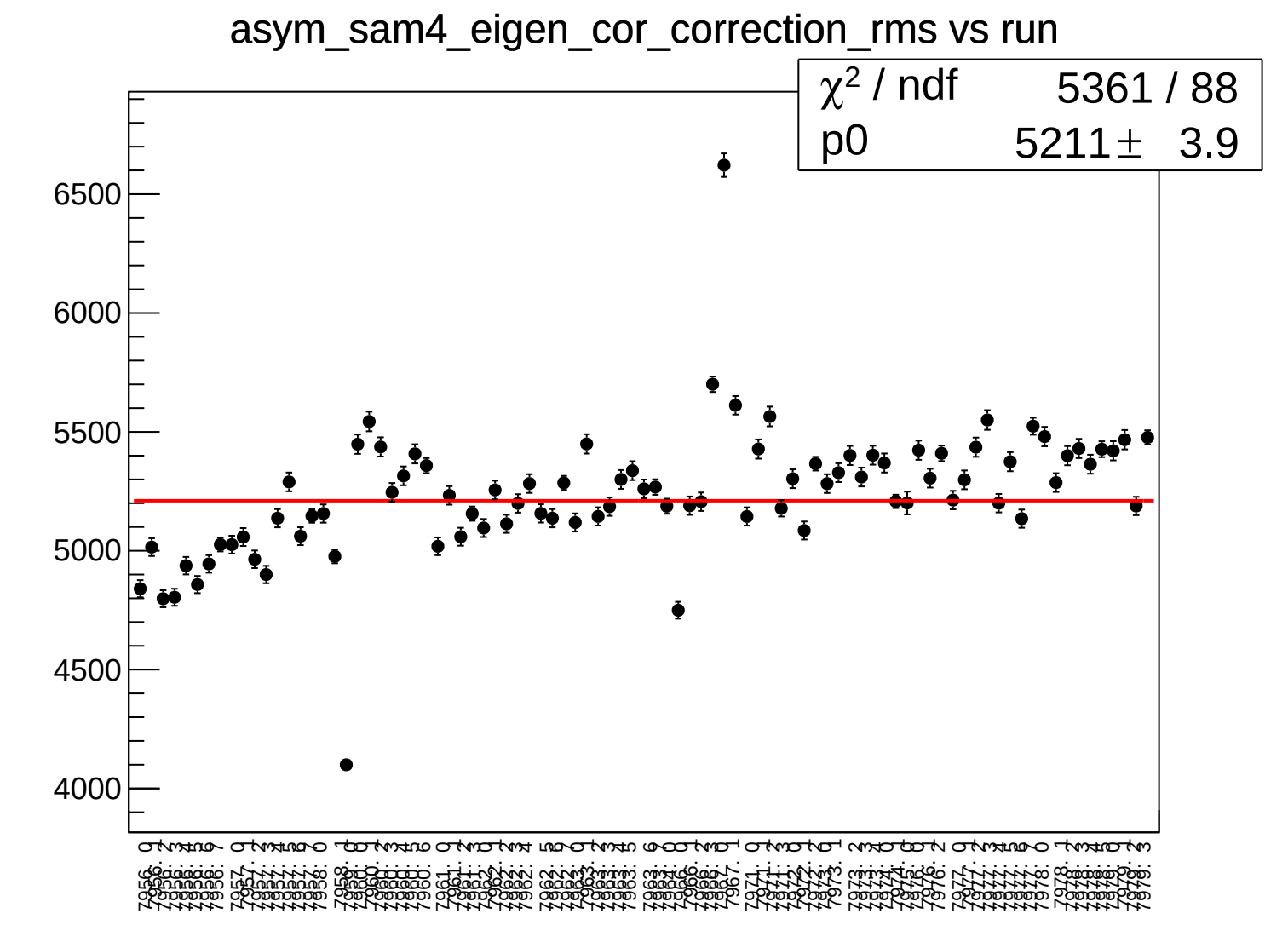

asym_sam4_cor_correction_rms vs run
χ² / ndf 5361 / 88
p0 5211 ± 3.9
6500
6000
5500
5000
4500
4000

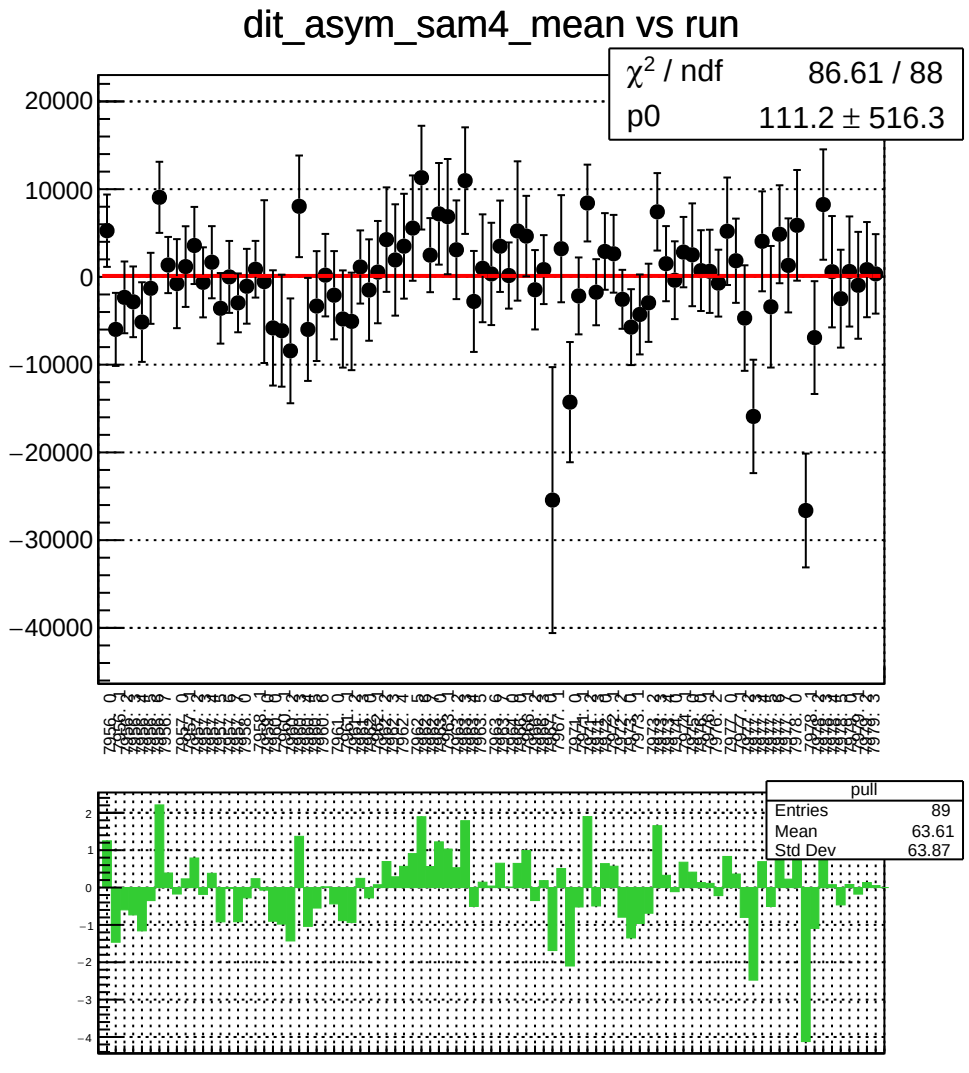

eigen_cor_asym_sam4_mean vs run
χ² / ndf 85.5 / 88
p0 287.3 ± 395.3
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −33.58
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.02535
Std Dev 0.9798
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

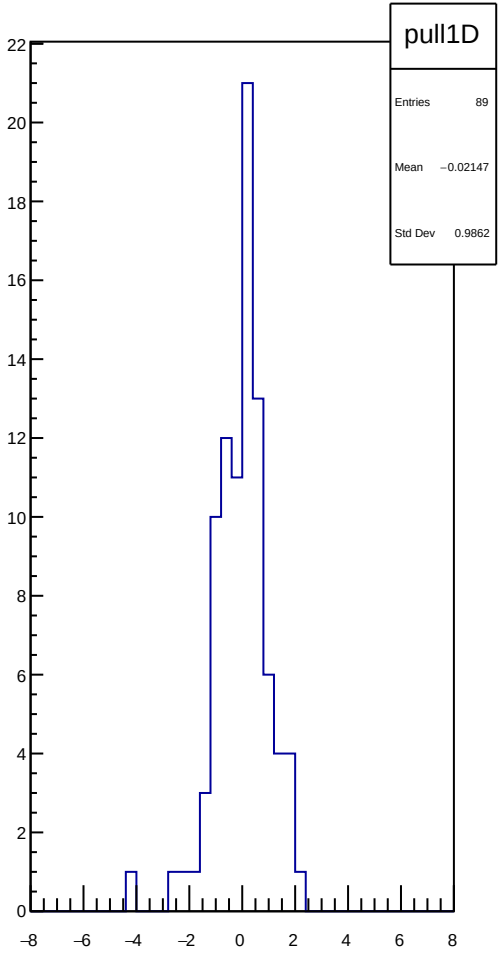

eigen_cor_asym_sam4_rms vs run
χ² / ndf 2.069e+04 / 88
p0 371.9 ± 0.2795
1000
900
800
700
600
500
400
300

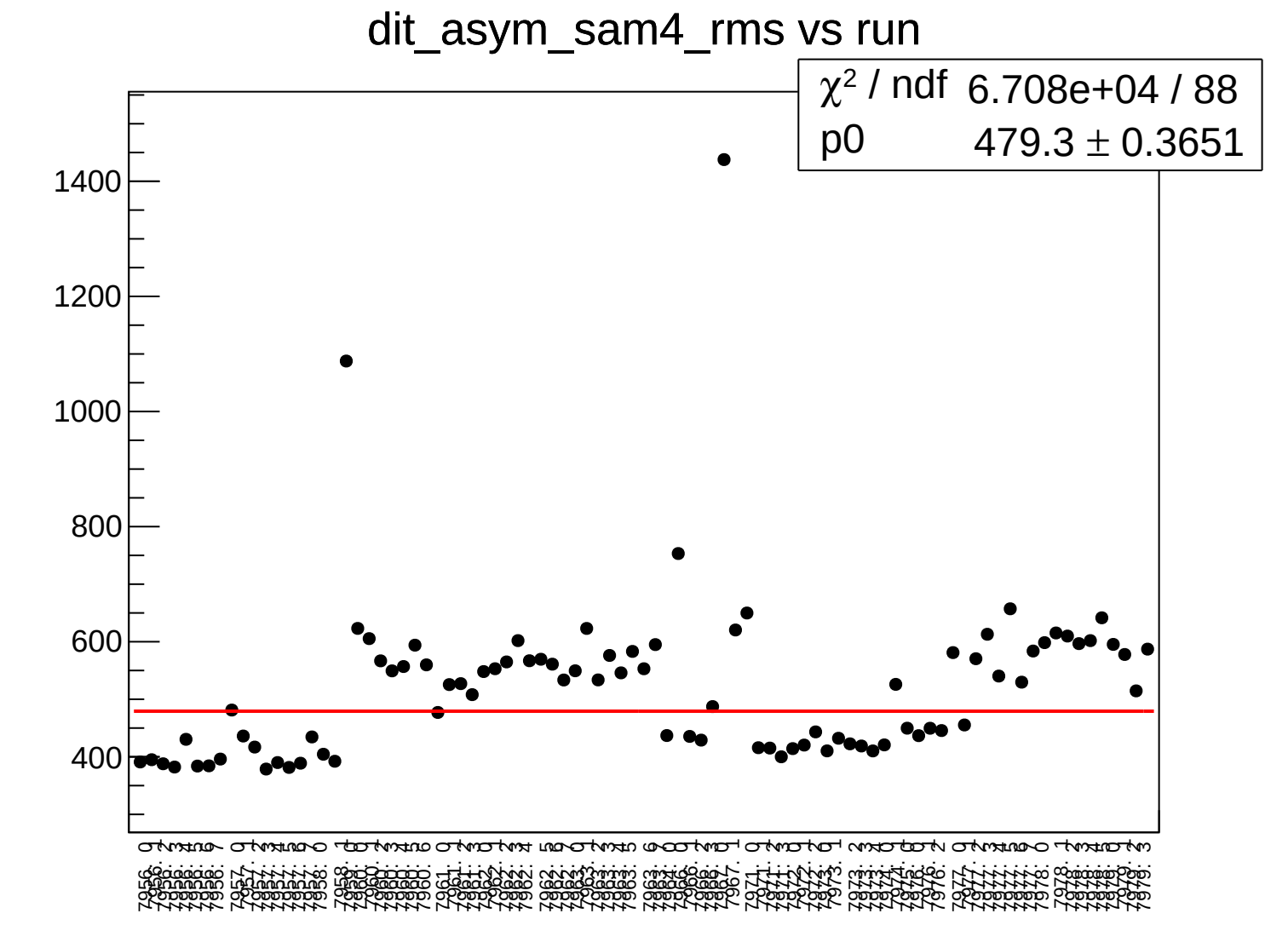

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 109.7 / 88
p0 1749 ± 5515
300
200
100
0
−100
−200
pull
Entries 89
Mean −268
Std Dev 0
4
3
2
1
0
−1
−2

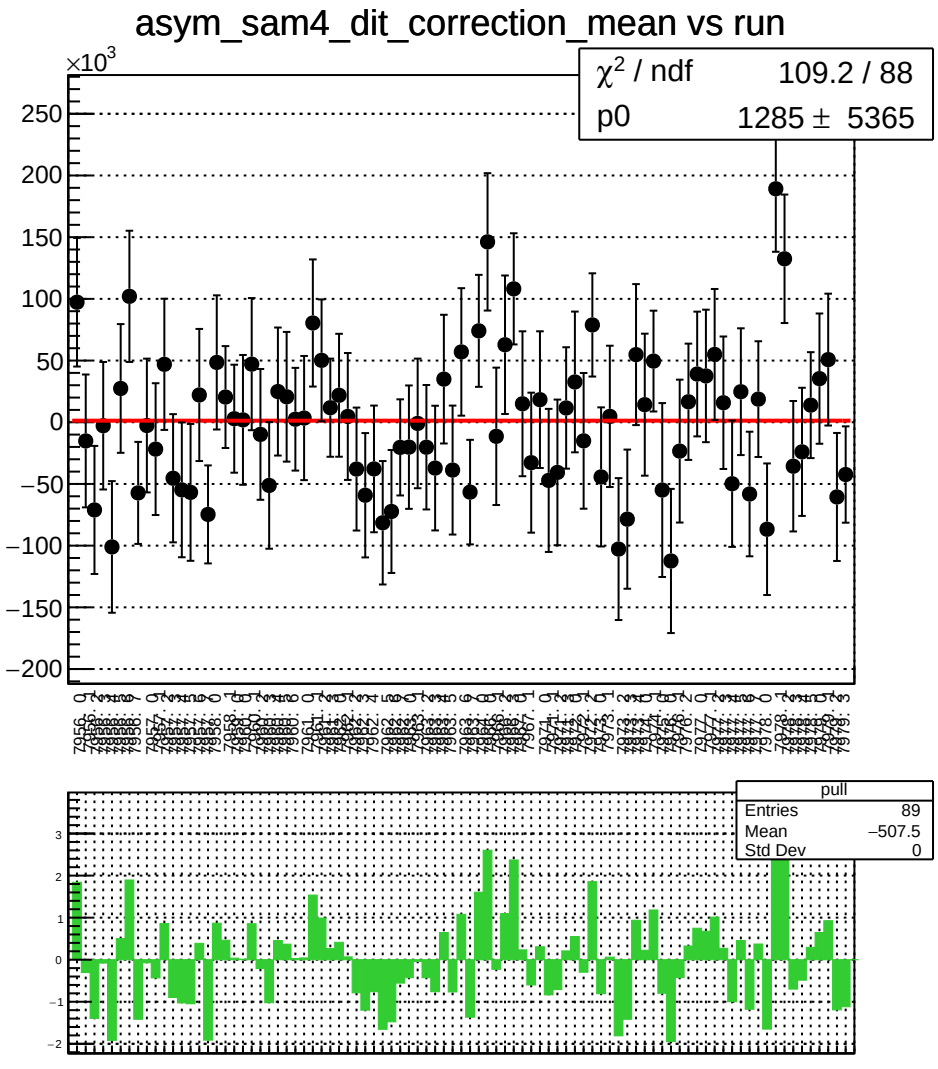

pull1D
Entries 89
Mean −0.00788
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

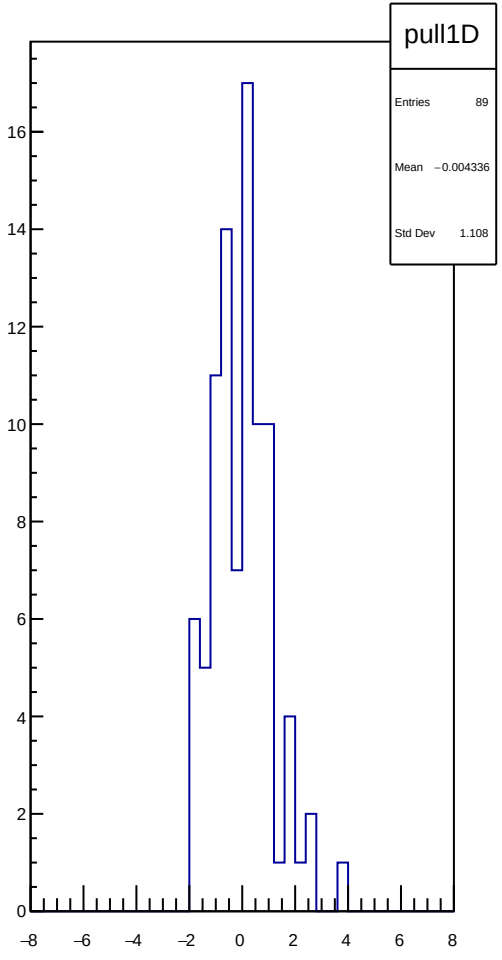

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 5361 / 88
p0 5211 ± 3.9
6500
6000
5500
5000
4500
4000

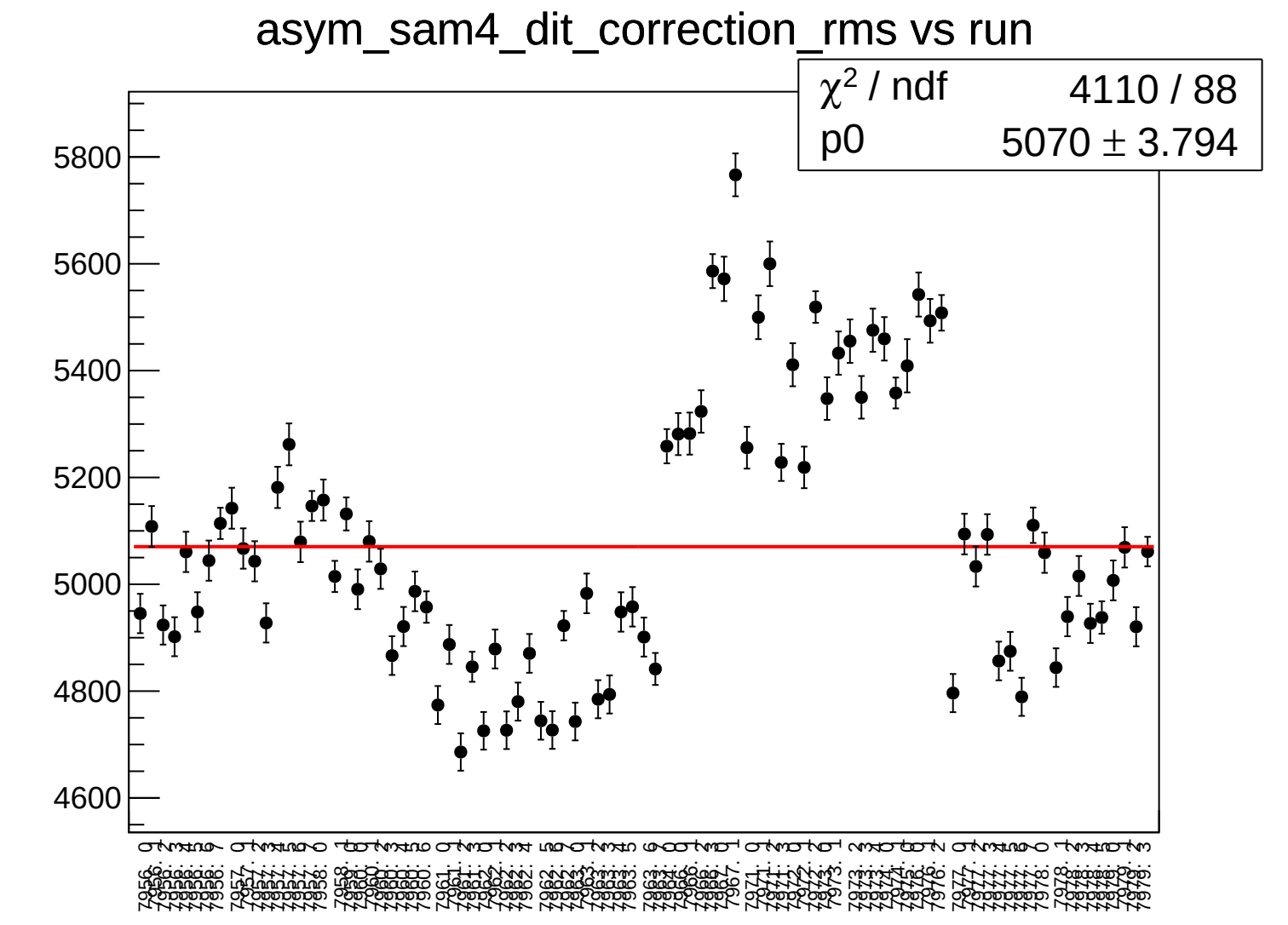

dit_asym_sam4_mean vs run
$\chi^2$ / ndf 86.61 / 88
p0 111.2 ± 516.3
pull
Entries 89
Mean 63.61
Std Dev 63.87

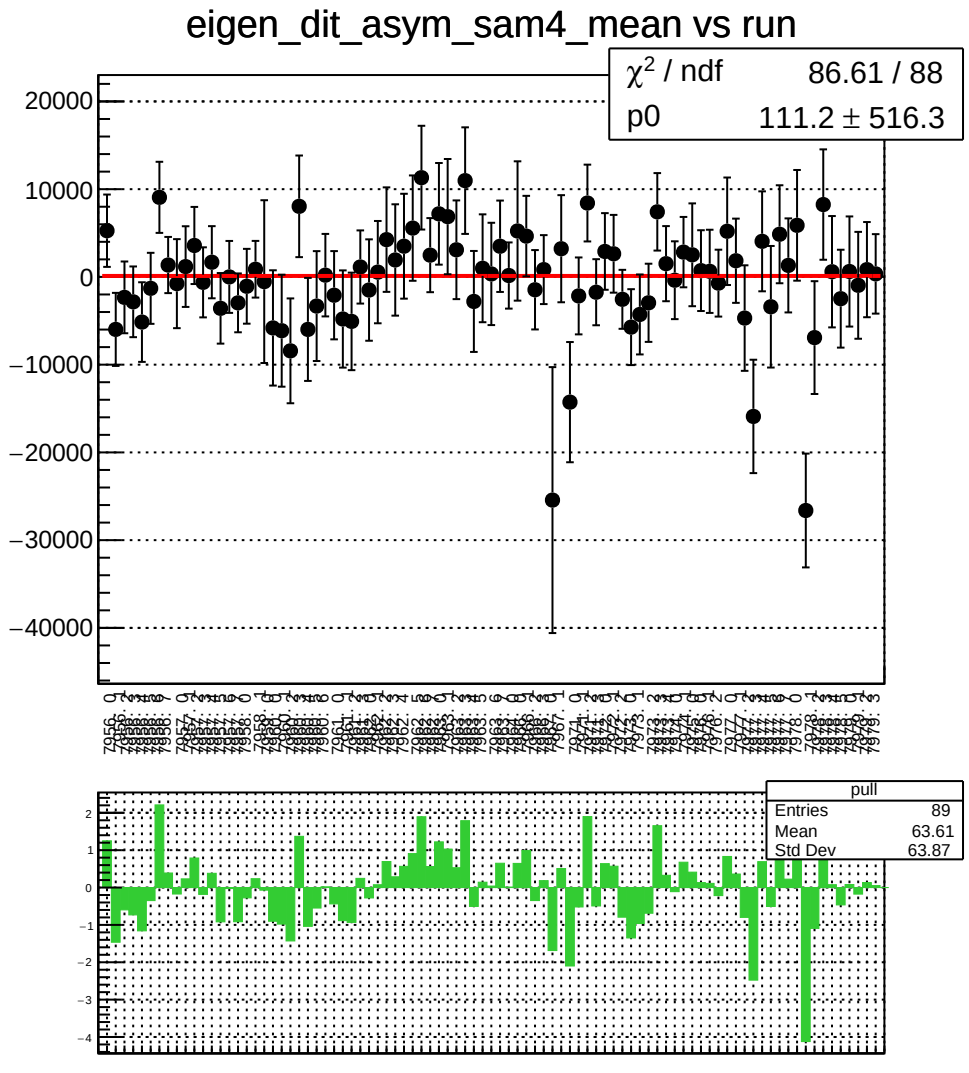

pull1D
Entries 89
Mean −0.02147
Std Dev 0.9862

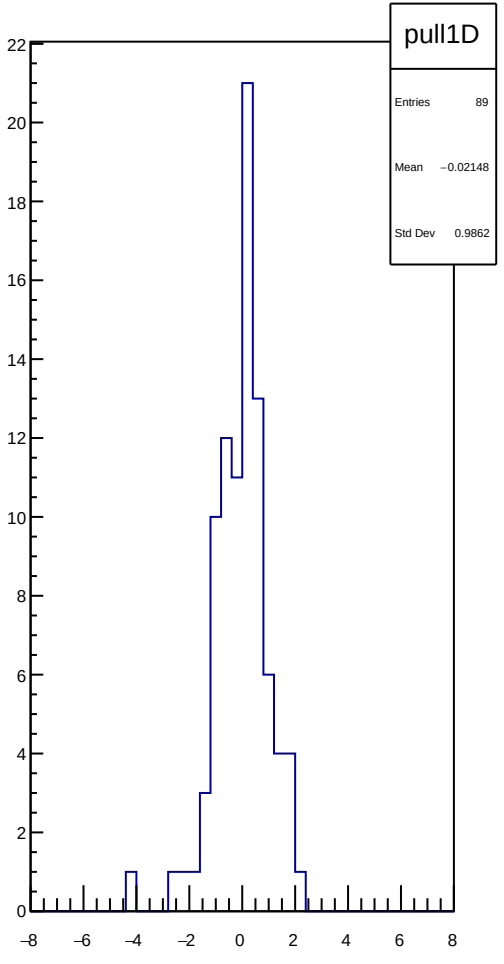

dit_asym_sam4_rms vs run
χ² / ndf 6.708e+04 / 88
p0 479.3 ± 0.3651
1400
1200
1000
800
600
400

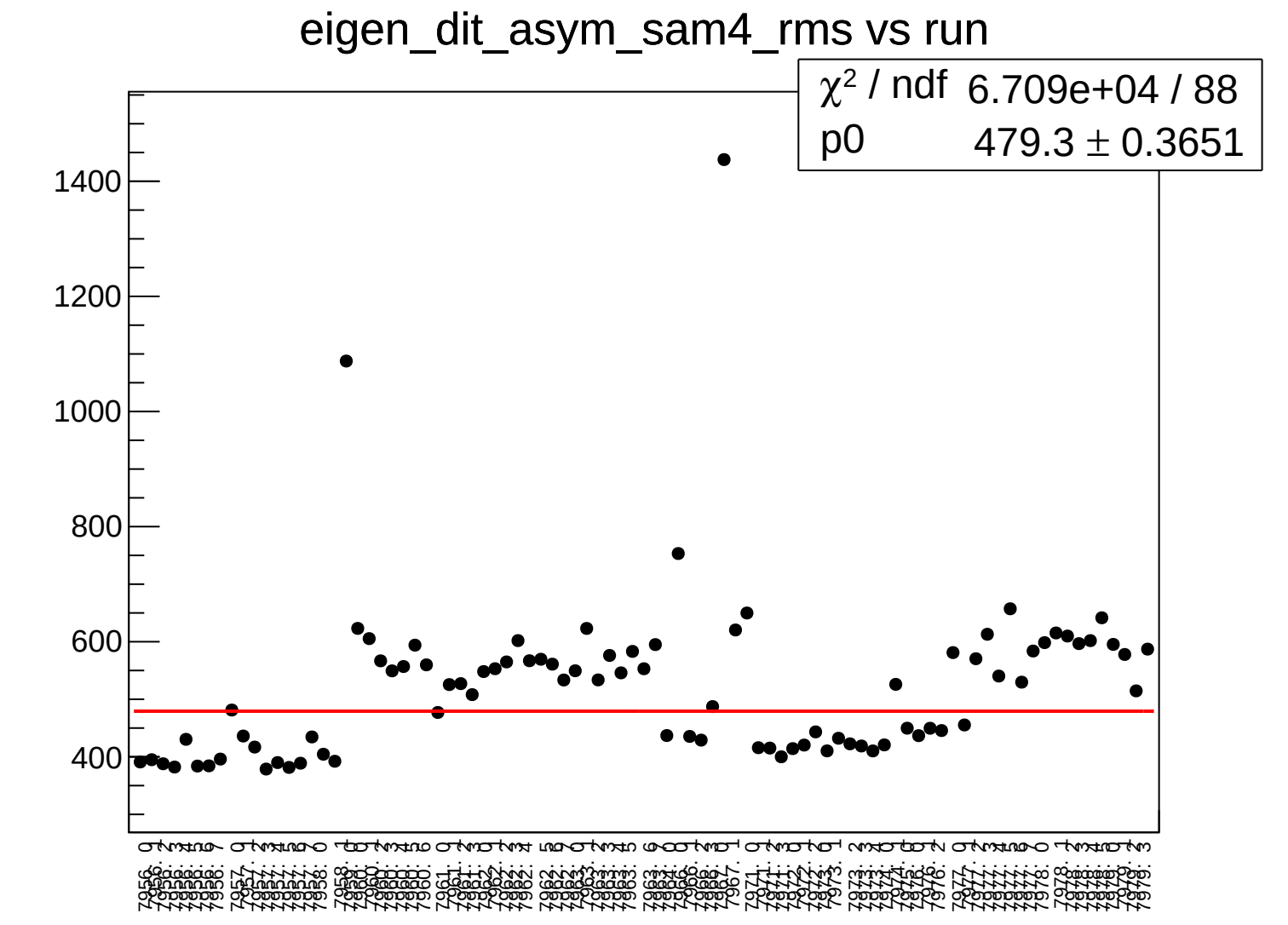

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 109.2 / 88
p0 1285 ± 5365
pull
Entries 89
Mean −507.5
Std Dev 0

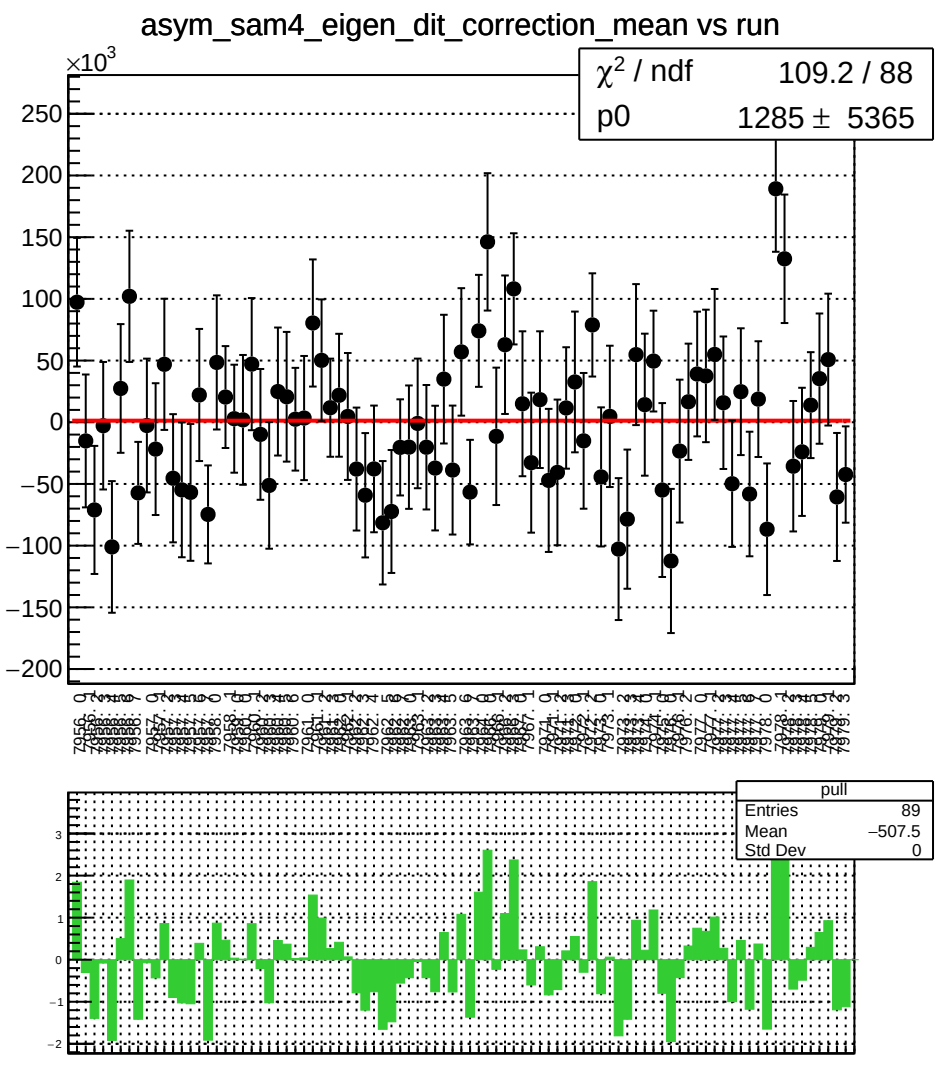

pull1D
Entries 89
Mean −0.004336
Std Dev 1.108

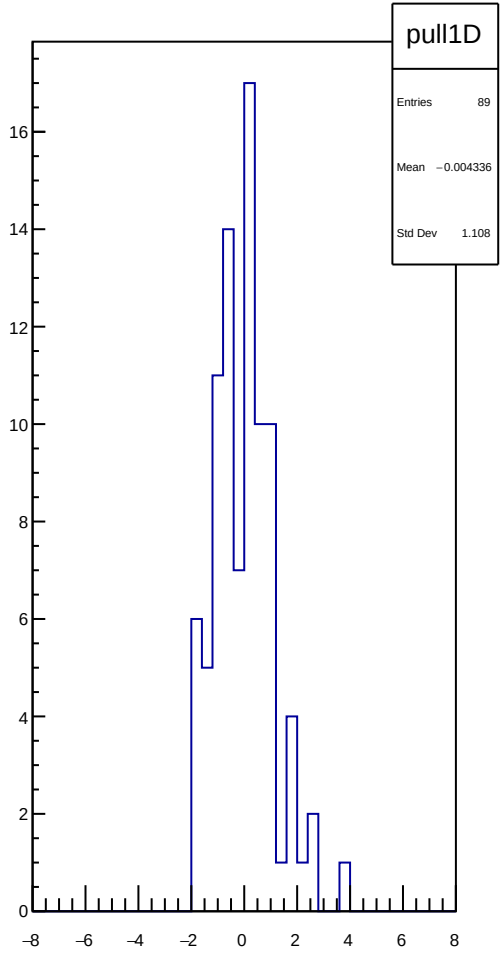

asym_sam4_dit_correction_rms vs run
$\chi^2$ / ndf 4110 / 88
p0 5070 ± 3.794
5800
5600
5400
5200
5000
4800
4600

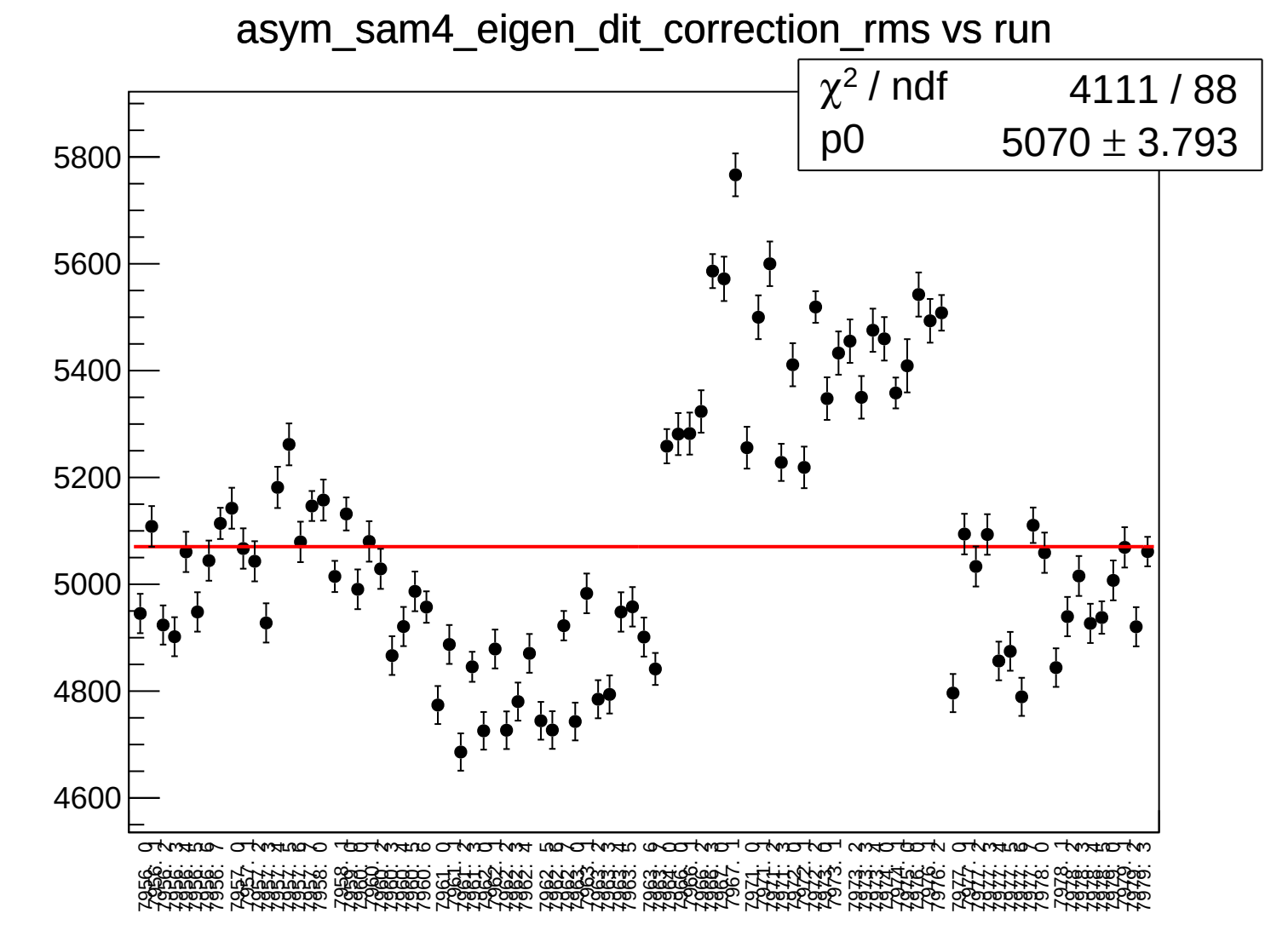

eigen_dit_asym_sam4_mean vs run
χ² / ndf 86.61 / 88
p0 111.2 ± 516.3
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 63.61
Std Dev 63.87
2
1
0
−1
−2
−3
−4

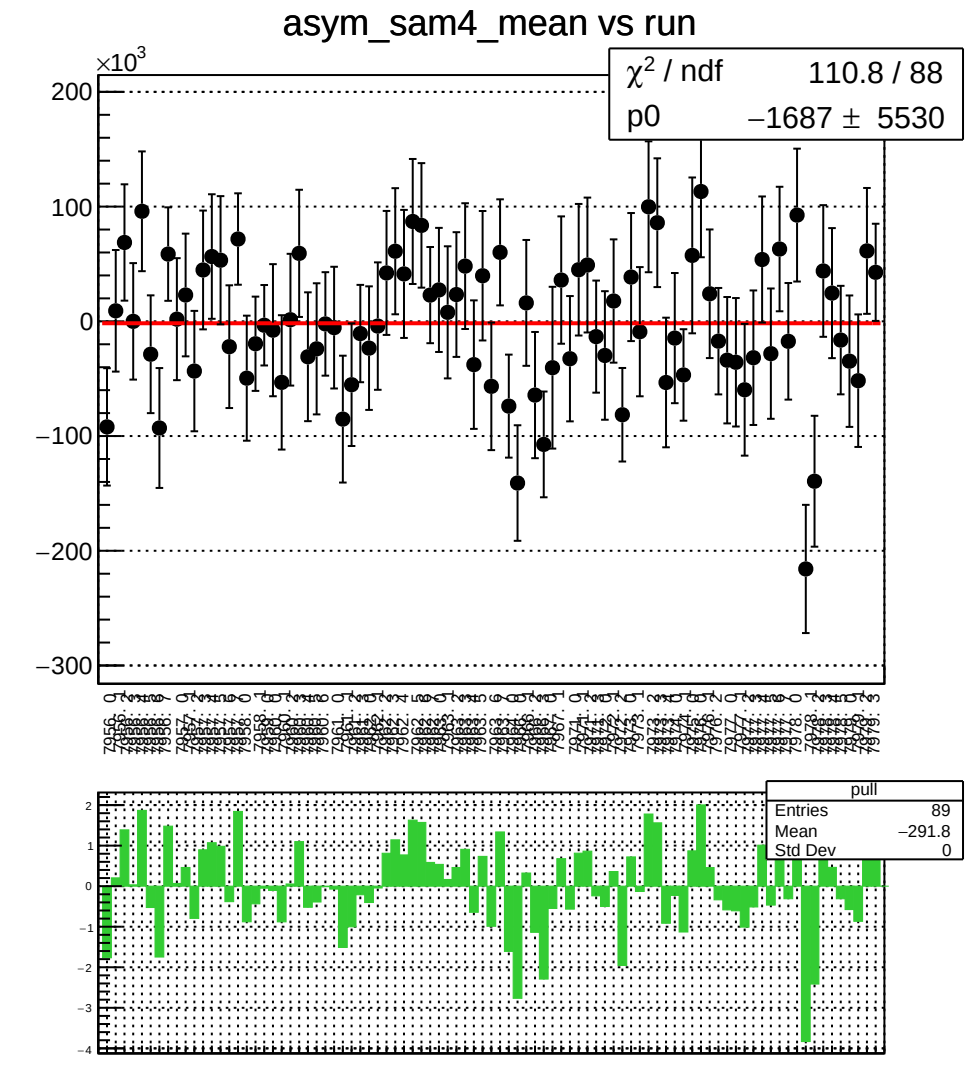

pull1D
Entries 89
Mean −0.02148
Std Dev 0.9862
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

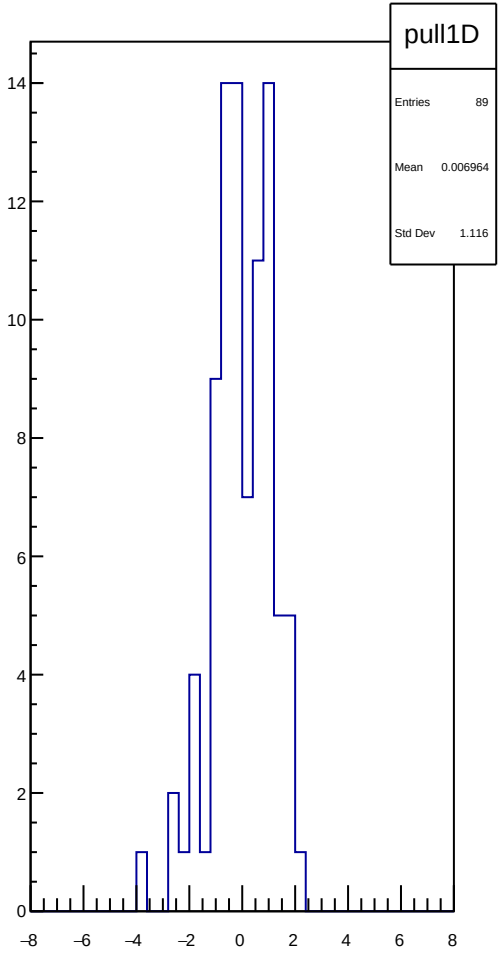

eigen_dit_asym_sam4_rms vs run
χ² / ndf 6.709e+04 / 88
p0 479.3 ± 0.3651
1400
1200
1000
800
600
400

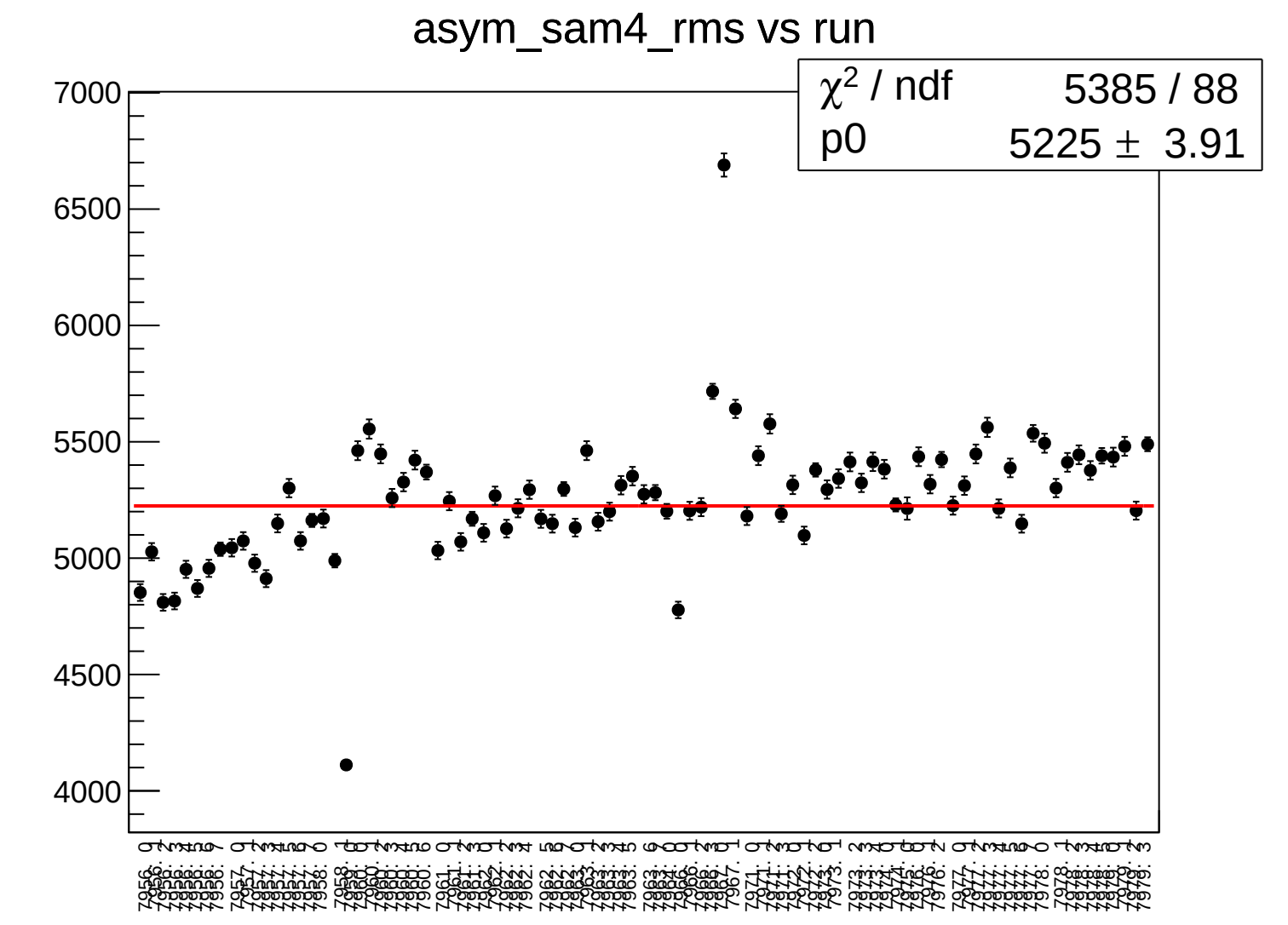

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 109.2 / 88
p0 1285 ± 5365
250
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −507.5
Std Dev 0
3
2
1
0
−1
−2

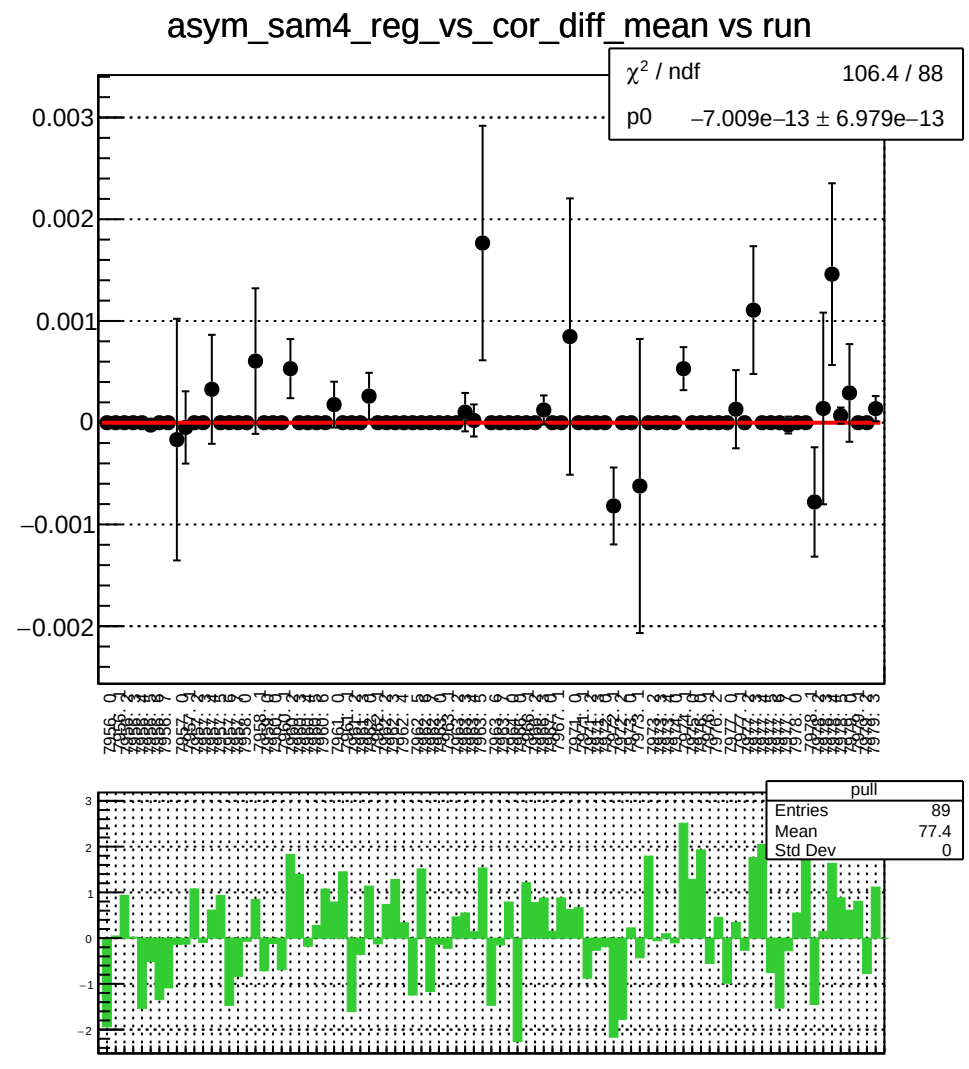

pull1D
Entries 89
Mean −0.004336
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

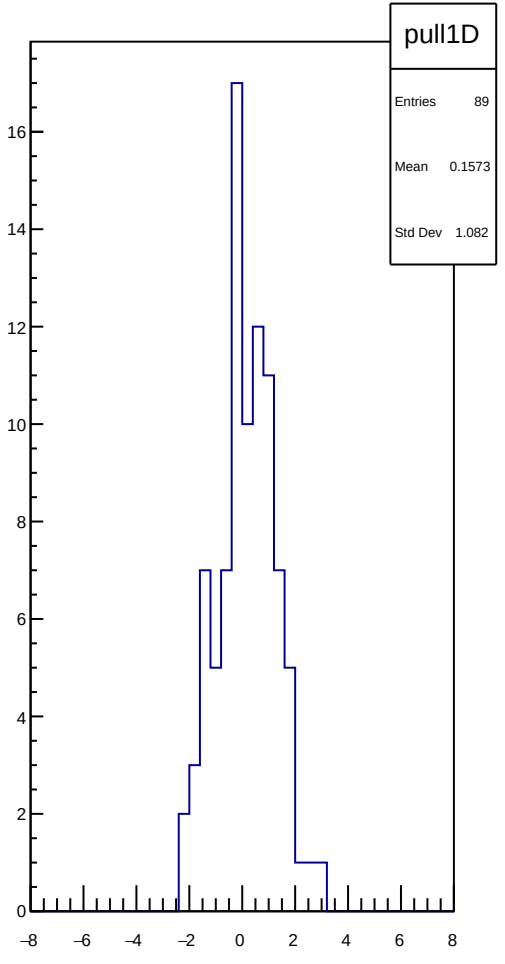

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 4111 / 88
p0 5070 ± 3.793
5800
5600
5400
5200
5000
4800
4600

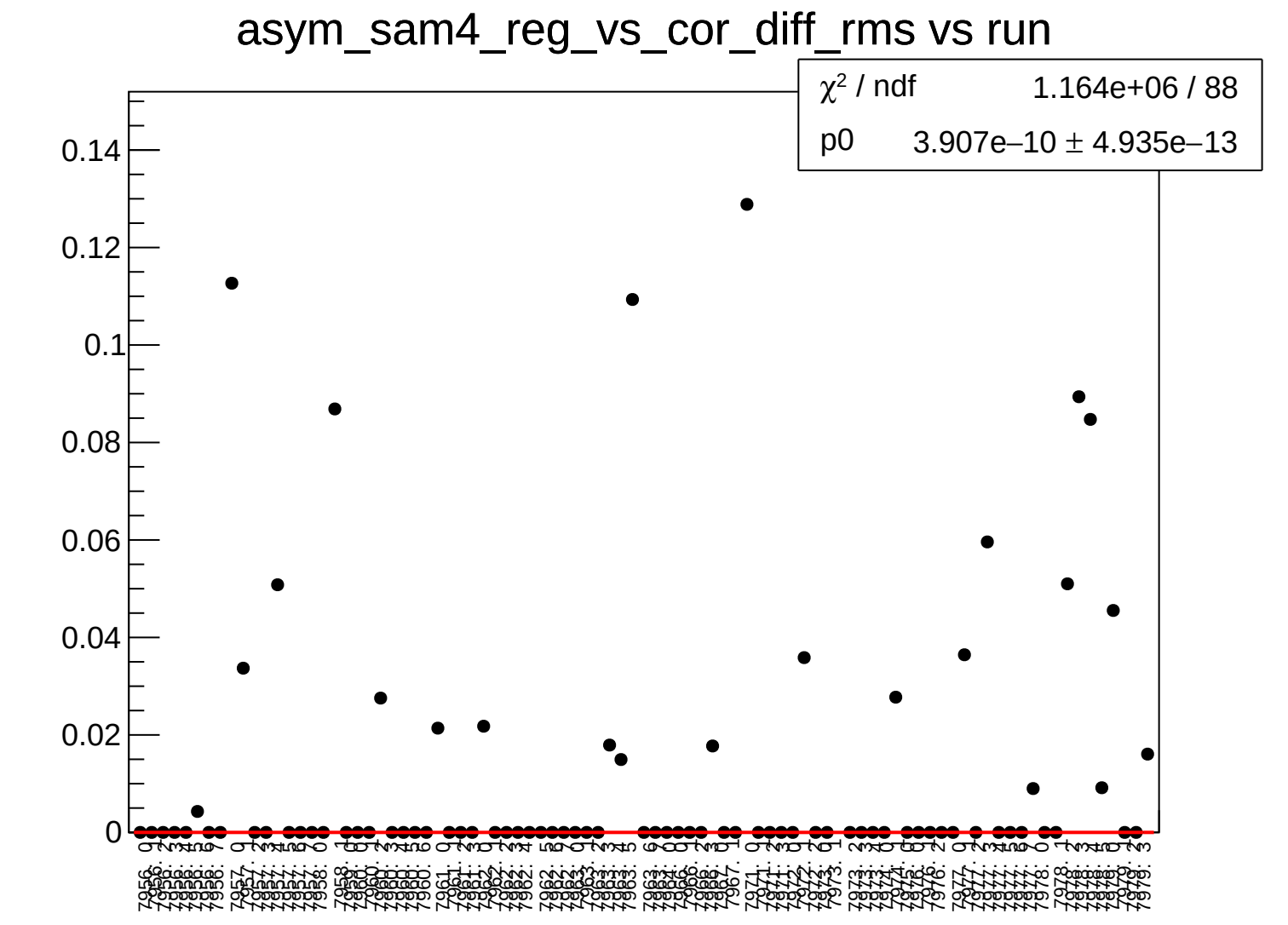

asym_sam4_mean vs run
×10^3
χ^2 / ndf 110.8 / 88
p0 −1687 ± 5530
pull
Entries 89
Mean −291.8
Std Dev 0

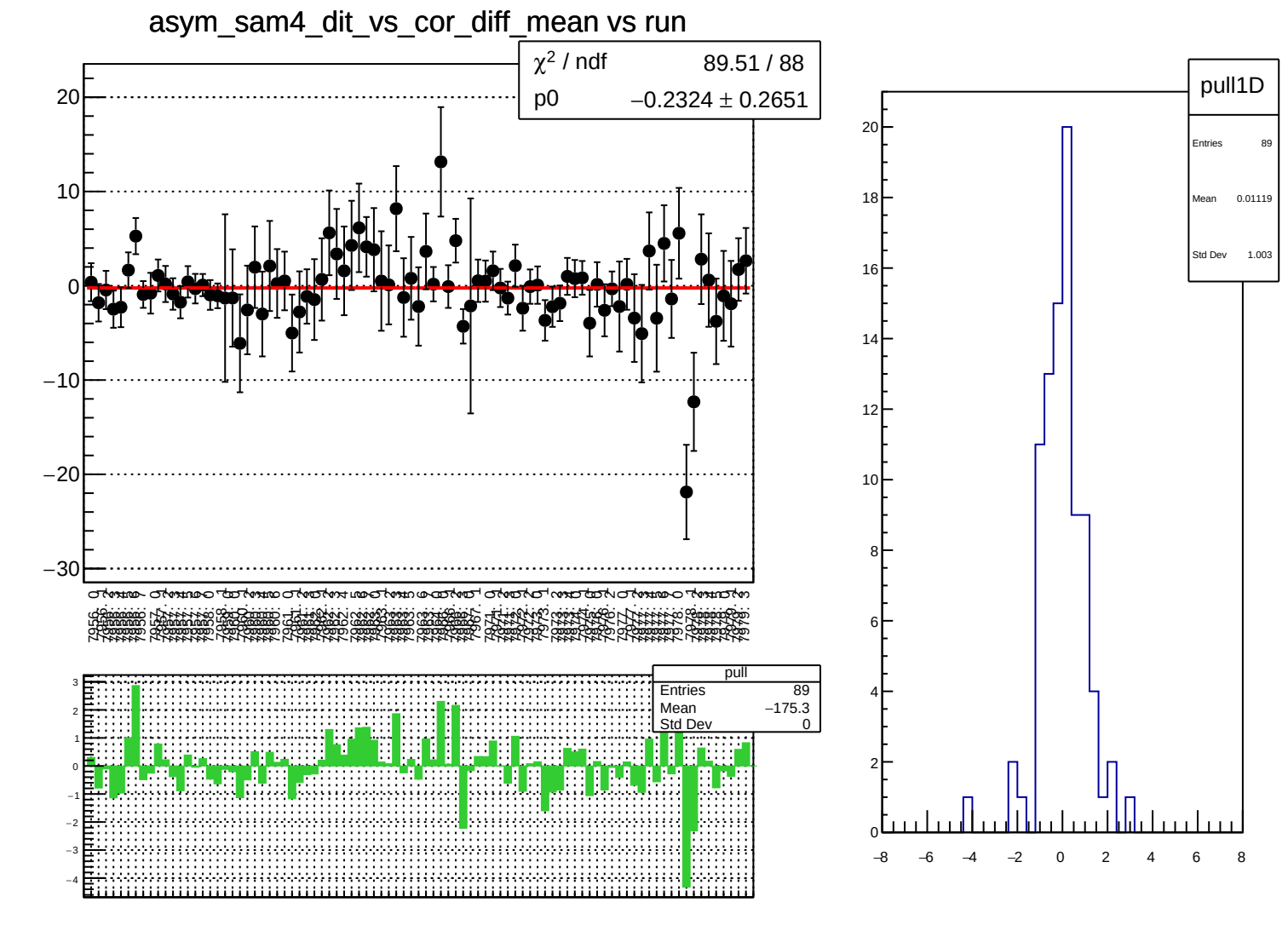

pull1D
Entries 89
Mean 0.006964
Std Dev 1.116

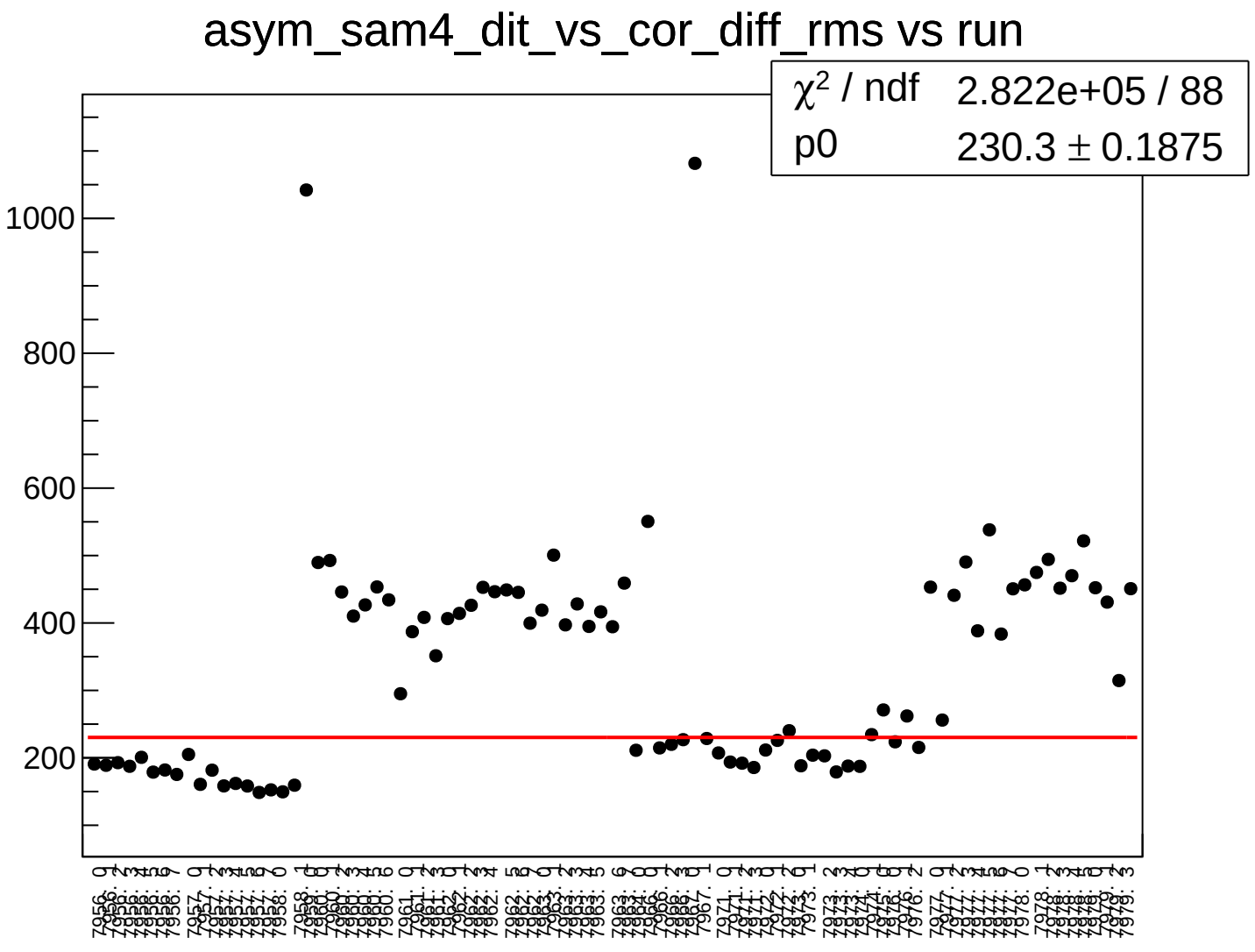

asym_sam4_rms vs run
$\chi^2$ / ndf 5385 / 88
p0 5225 ± 3.91
7000
6500
6000
5500
5000
4500
4000

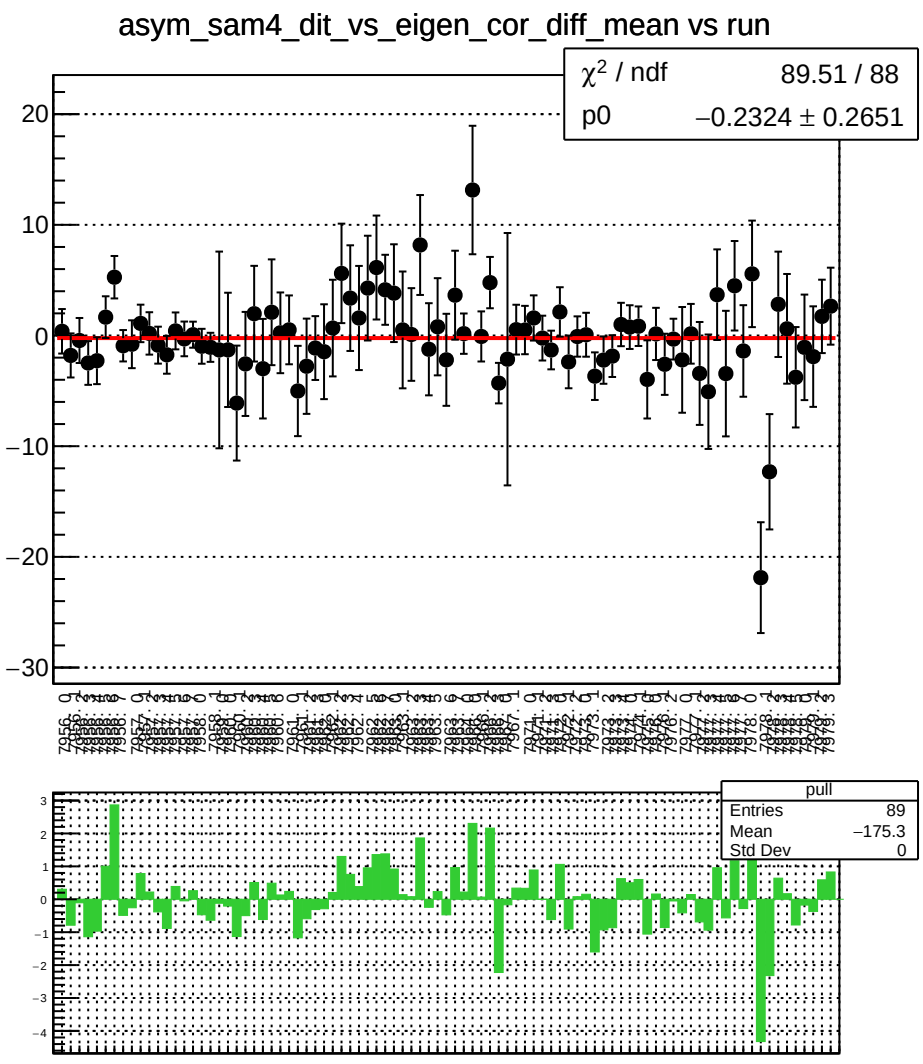

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 106.4 / 88
p0 −7.009e−13 ± 6.979e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 89
Mean 77.4
Std Dev 0
3
2
1
0
−1
−2

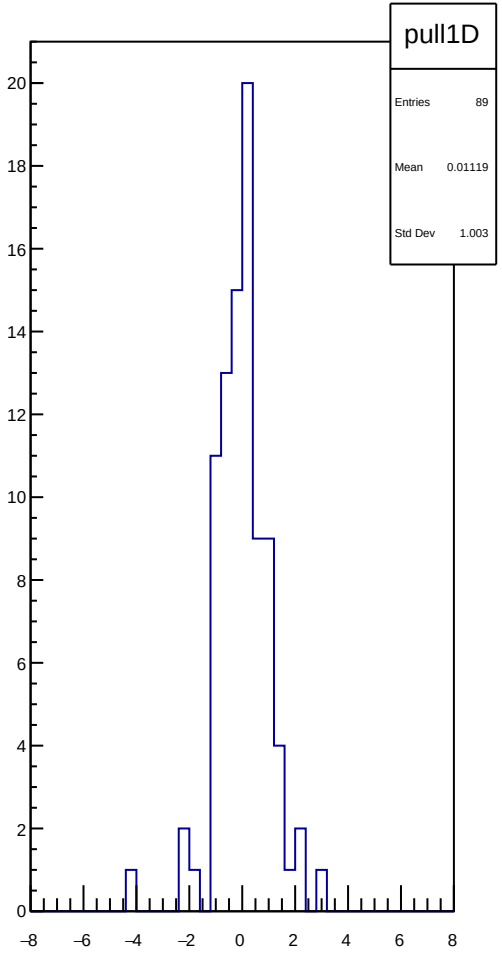

pull1D
Entries 89
Mean 0.1573
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

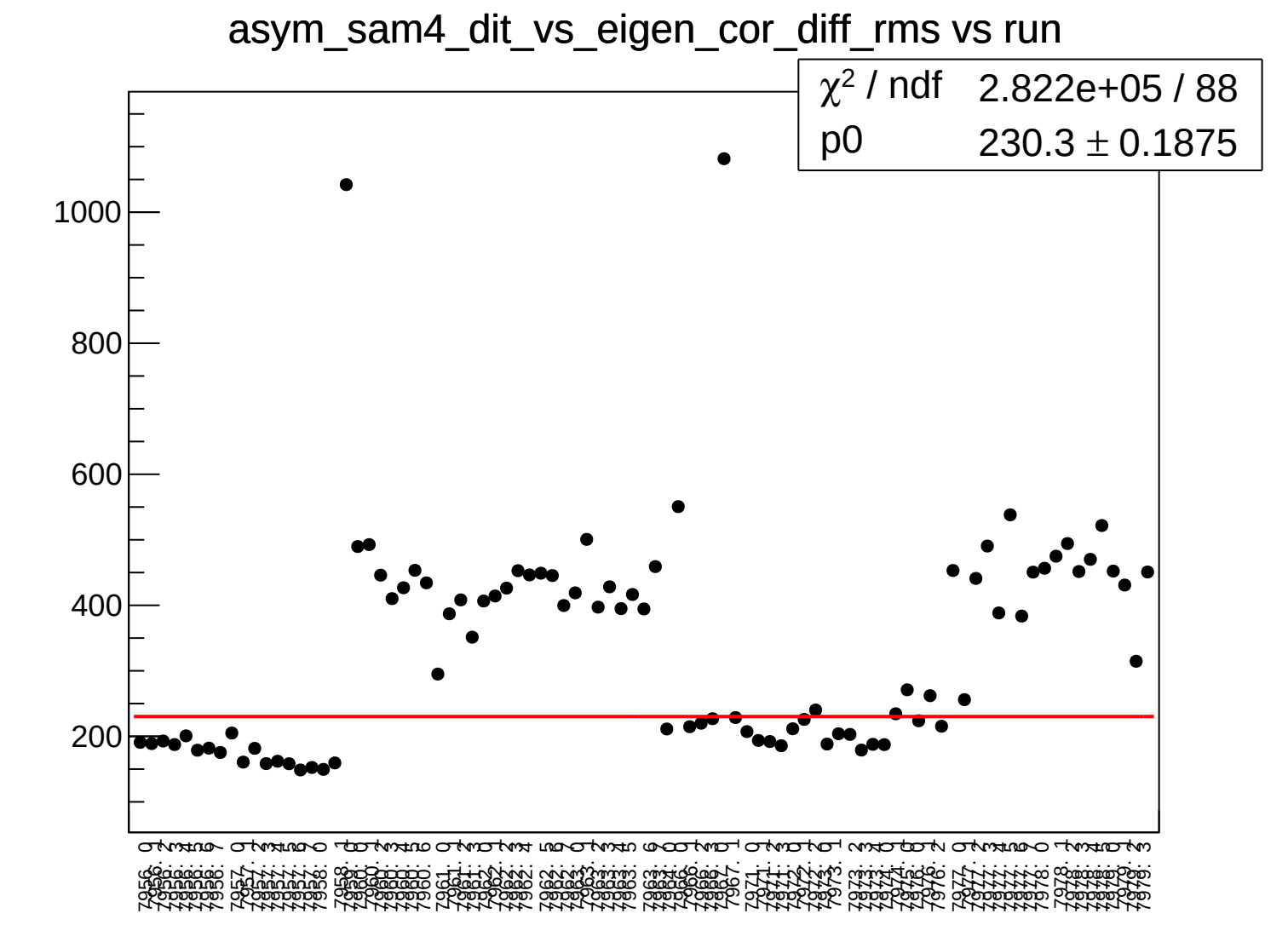

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.164e+06 / 88
p0 3.907e−10 ± 4.935e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

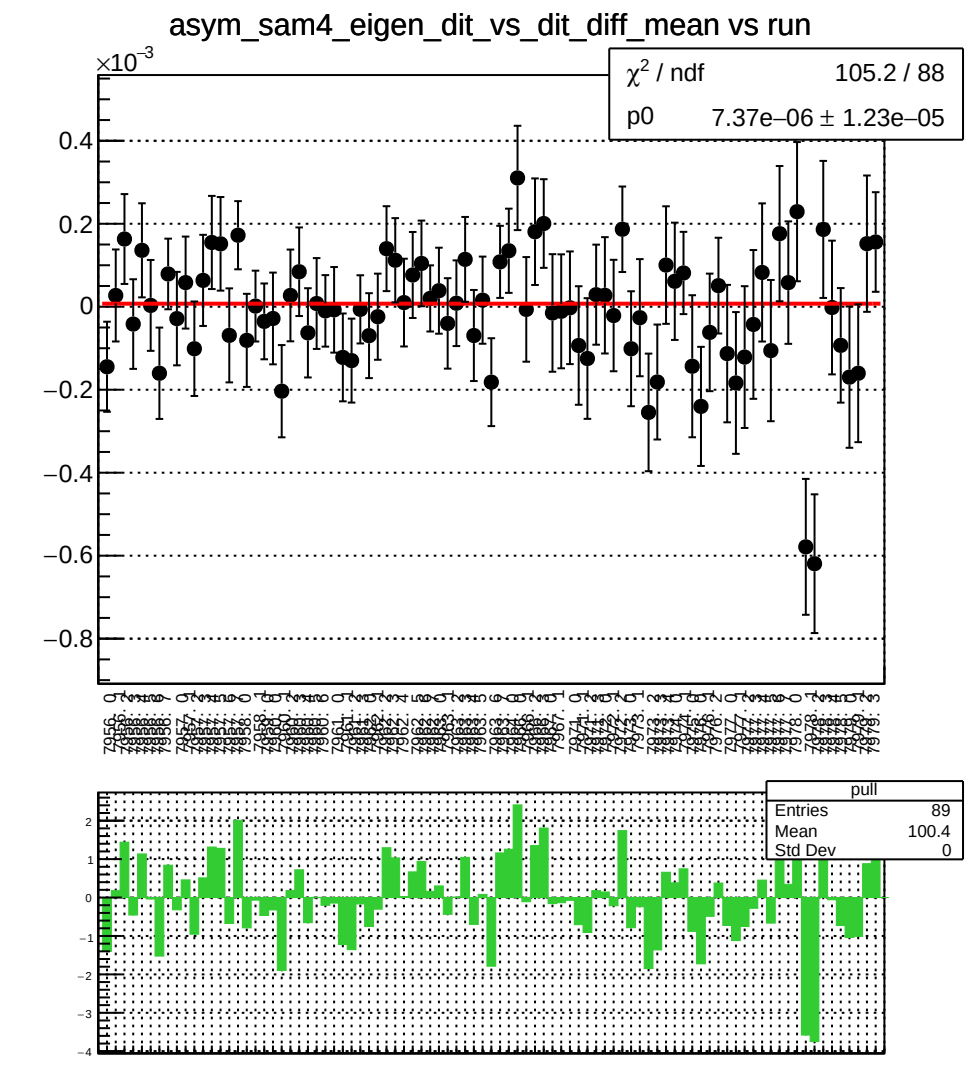

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 89.51 / 88
p0 −0.2324 ± 0.2651
pull
Entries 89
Mean −175.3
Std Dev 0
pull1D
Entries 89
Mean 0.01119
Std Dev 1.003

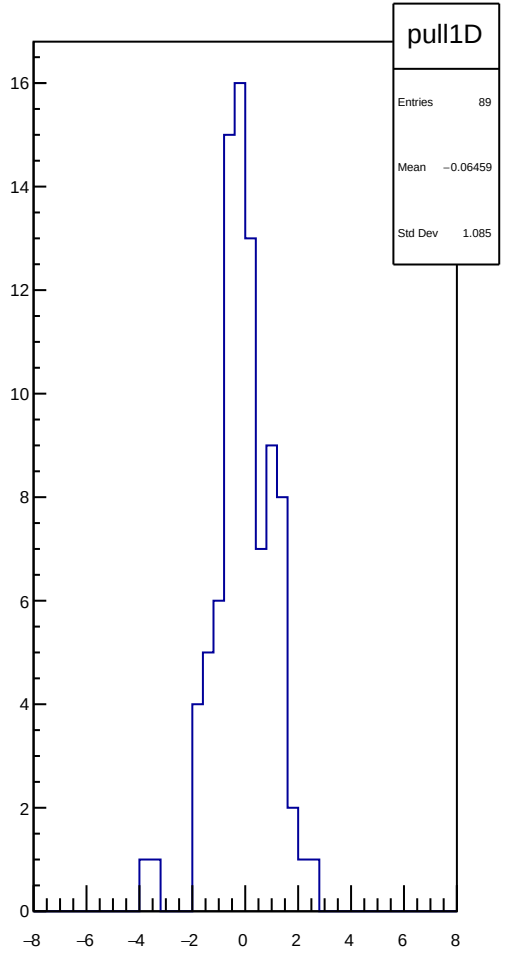

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 2.822e+05 / 88
p0 230.3 ± 0.1875
1000
800
600
400
200

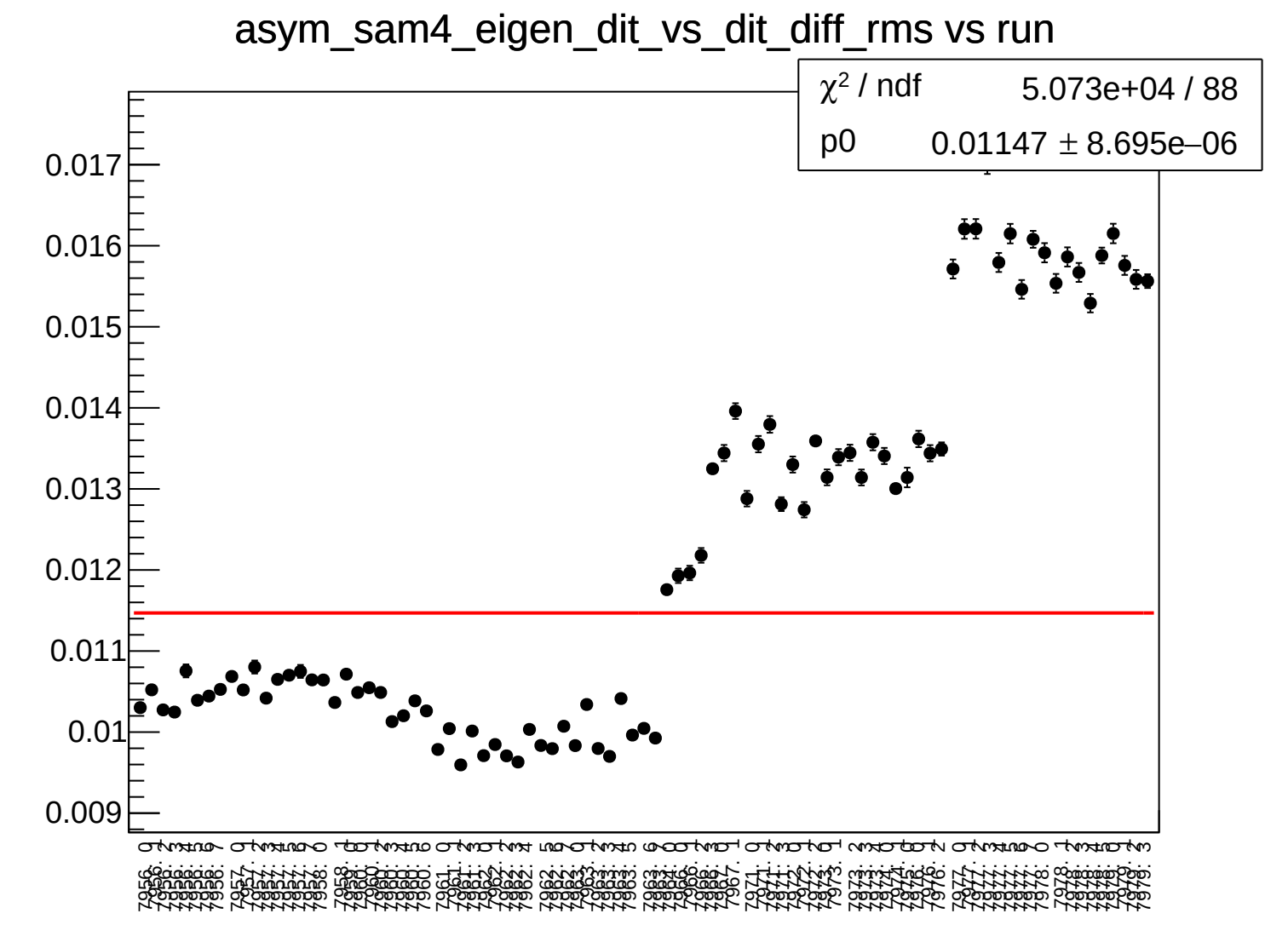

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.51 / 88
p0 −0.2324 ± 0.2651
pull
Entries 89
Mean −175.3
Std Dev 0

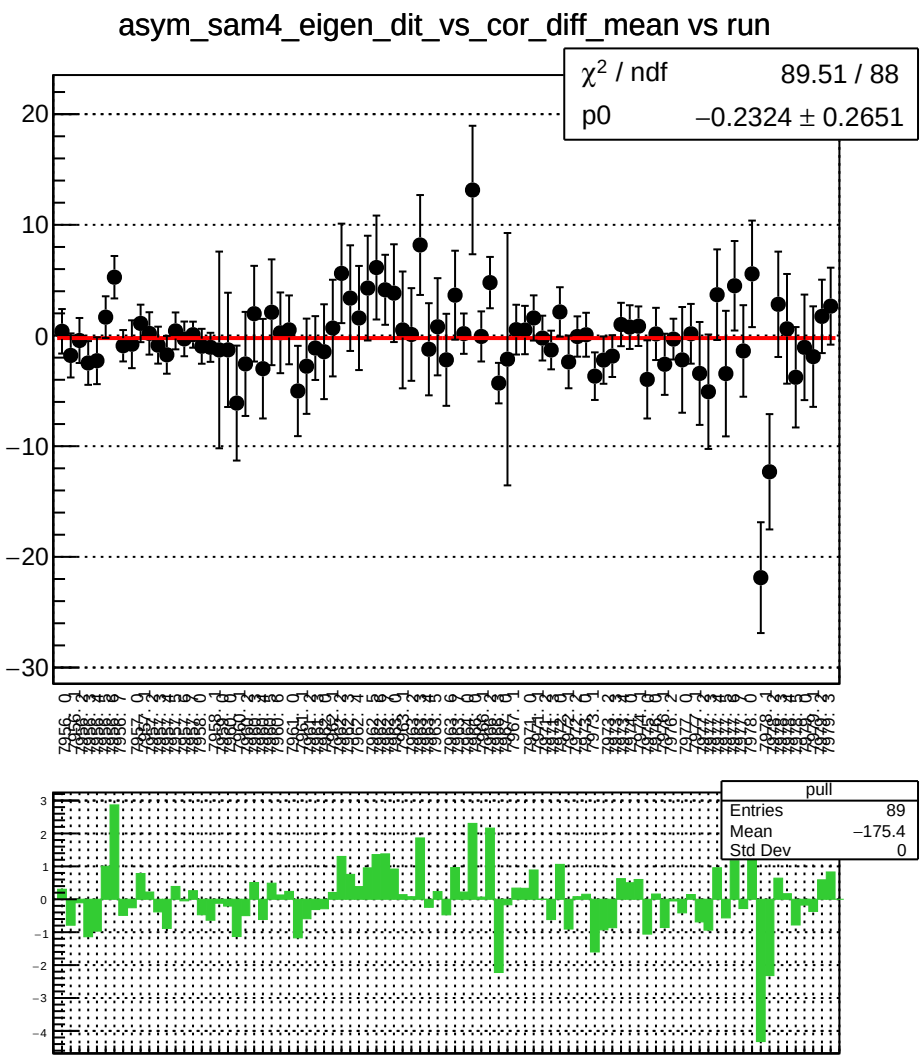

pull1D
Entries 89
Mean 0.01119
Std Dev 1.003

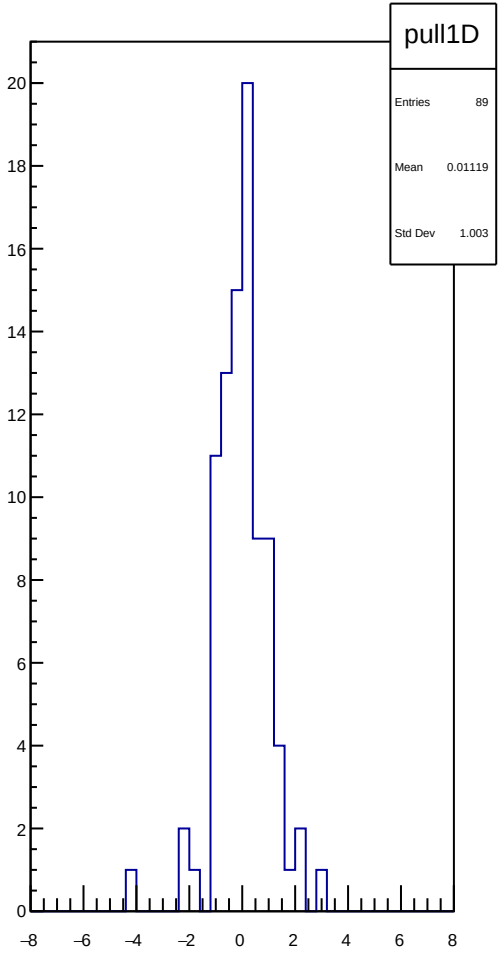

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.822e+05 / 88
p0 230.3 ± 0.1875
1000
800
600
400
200

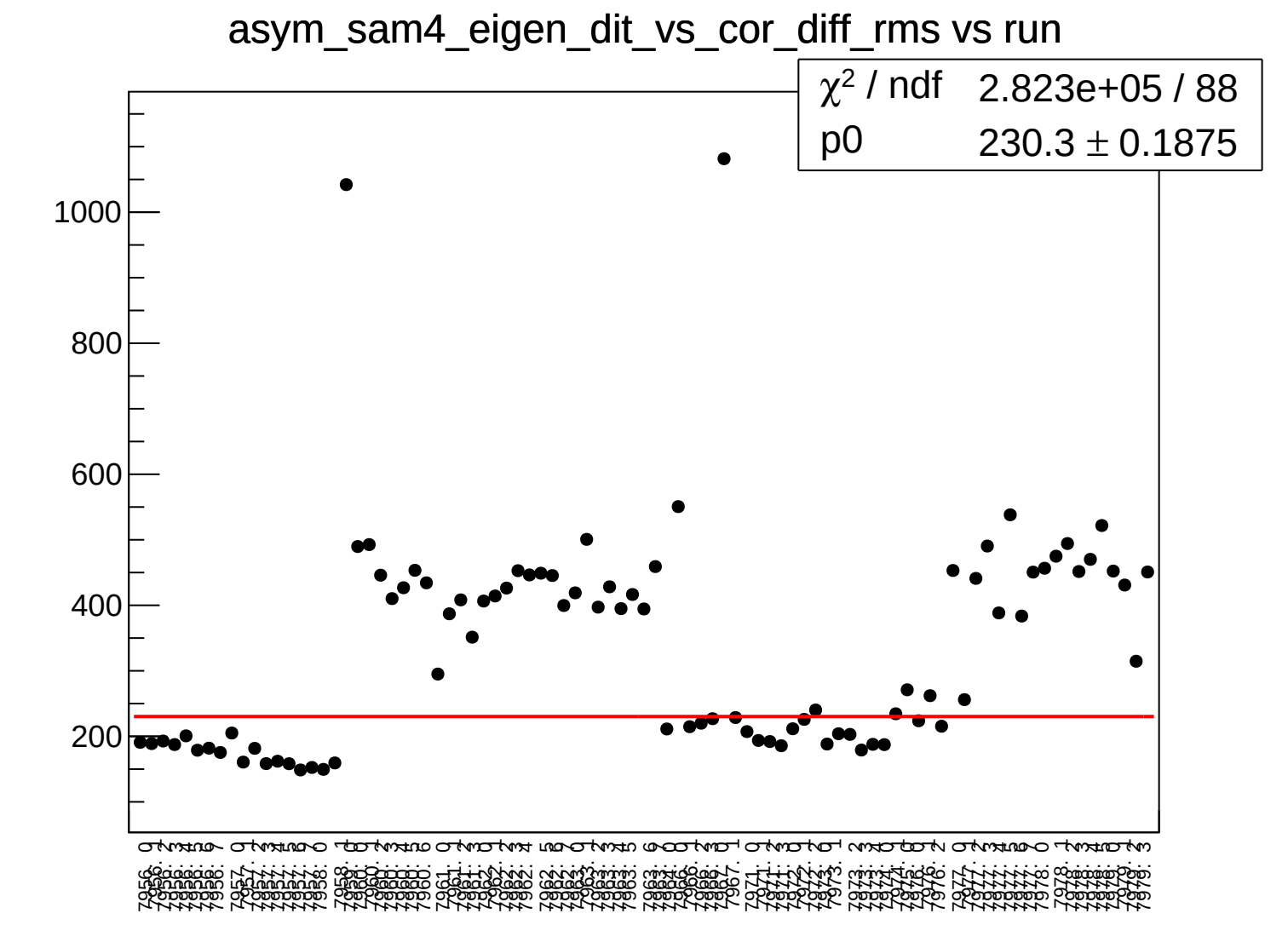

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.2 / 88
p0 7.37e−06 ± 1.23e−05
pull
Entries 89
Mean 100.4
Std Dev 0

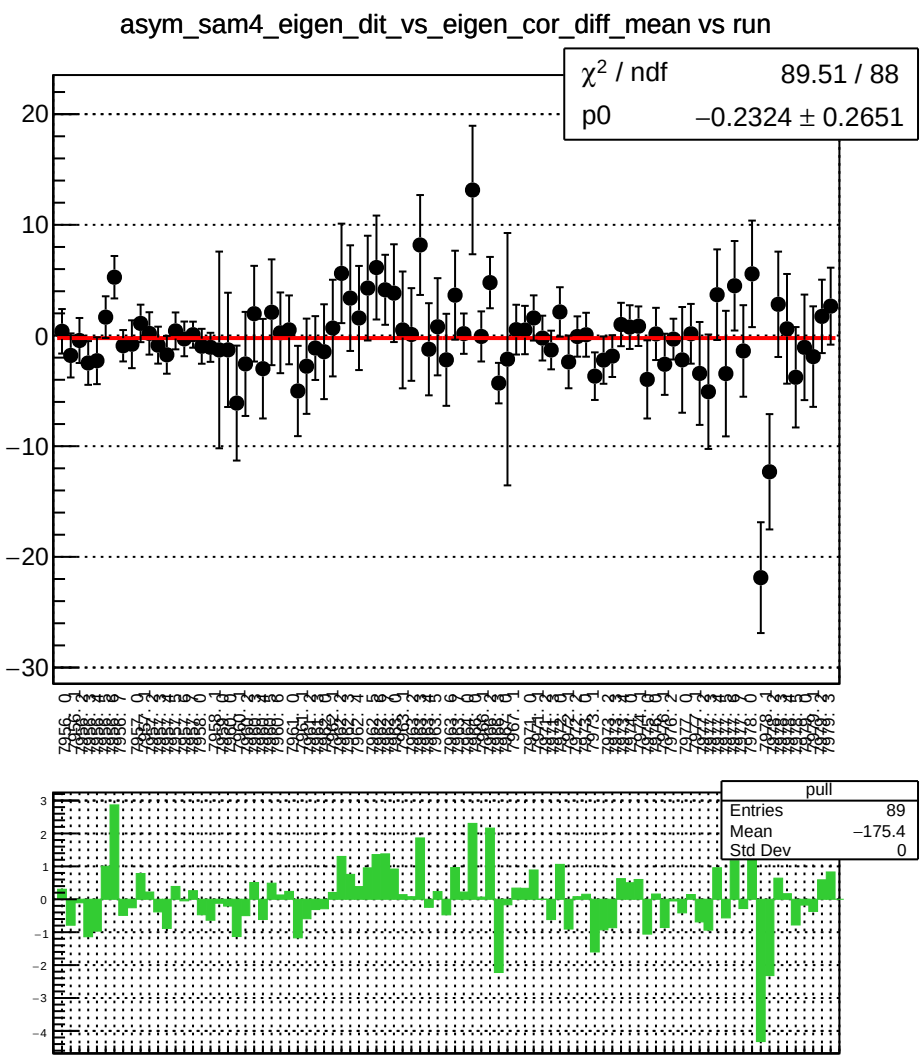

pull1D
Entries 89
Mean −0.06459
Std Dev 1.085

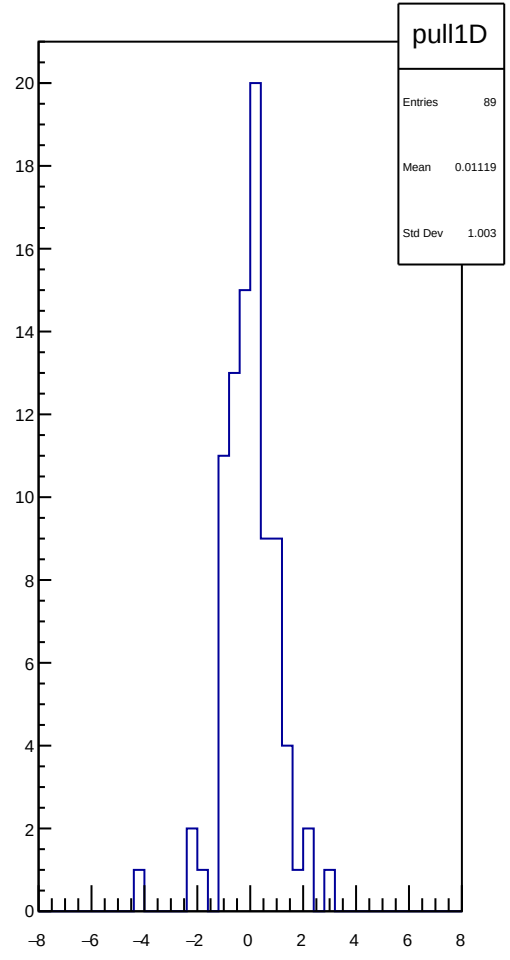

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.073e+04 / 88
p0 0.01147 ± 8.695e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

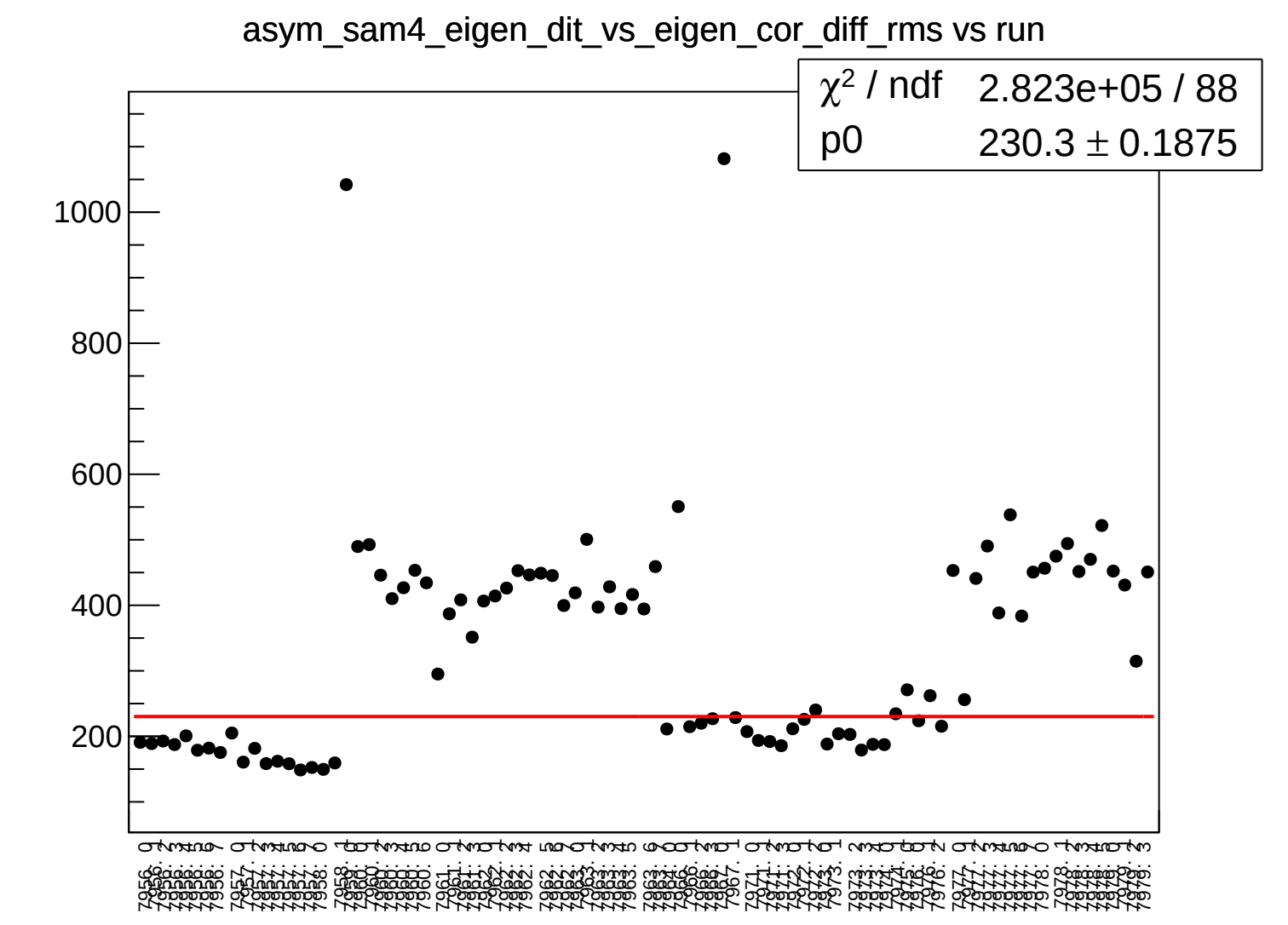

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.51 / 88
p0 −0.2324 ± 0.2651
pull
Entries 89
Mean −175.4
Std Dev 0

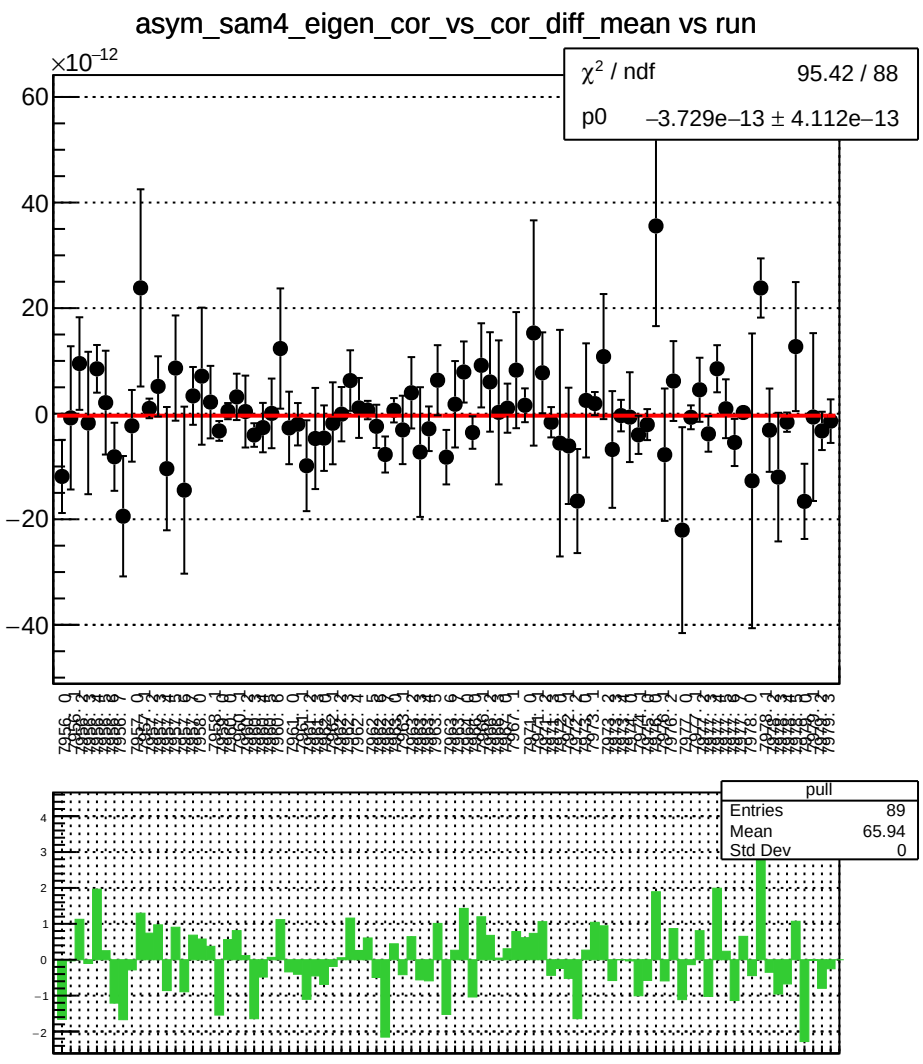

pull1D
Entries 89
Mean 0.01119
Std Dev 1.003

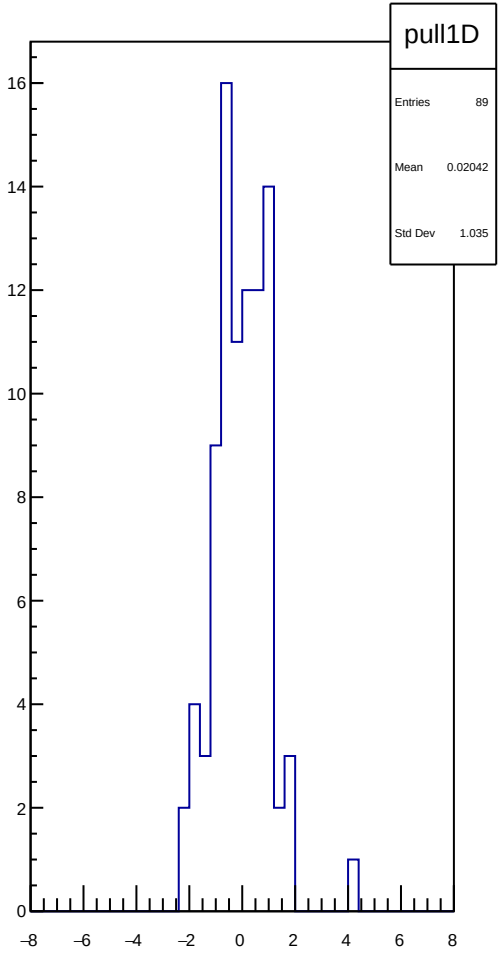

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.823e+05 / 88
p0 230.3 ± 0.1875
1000
800
600
400
200

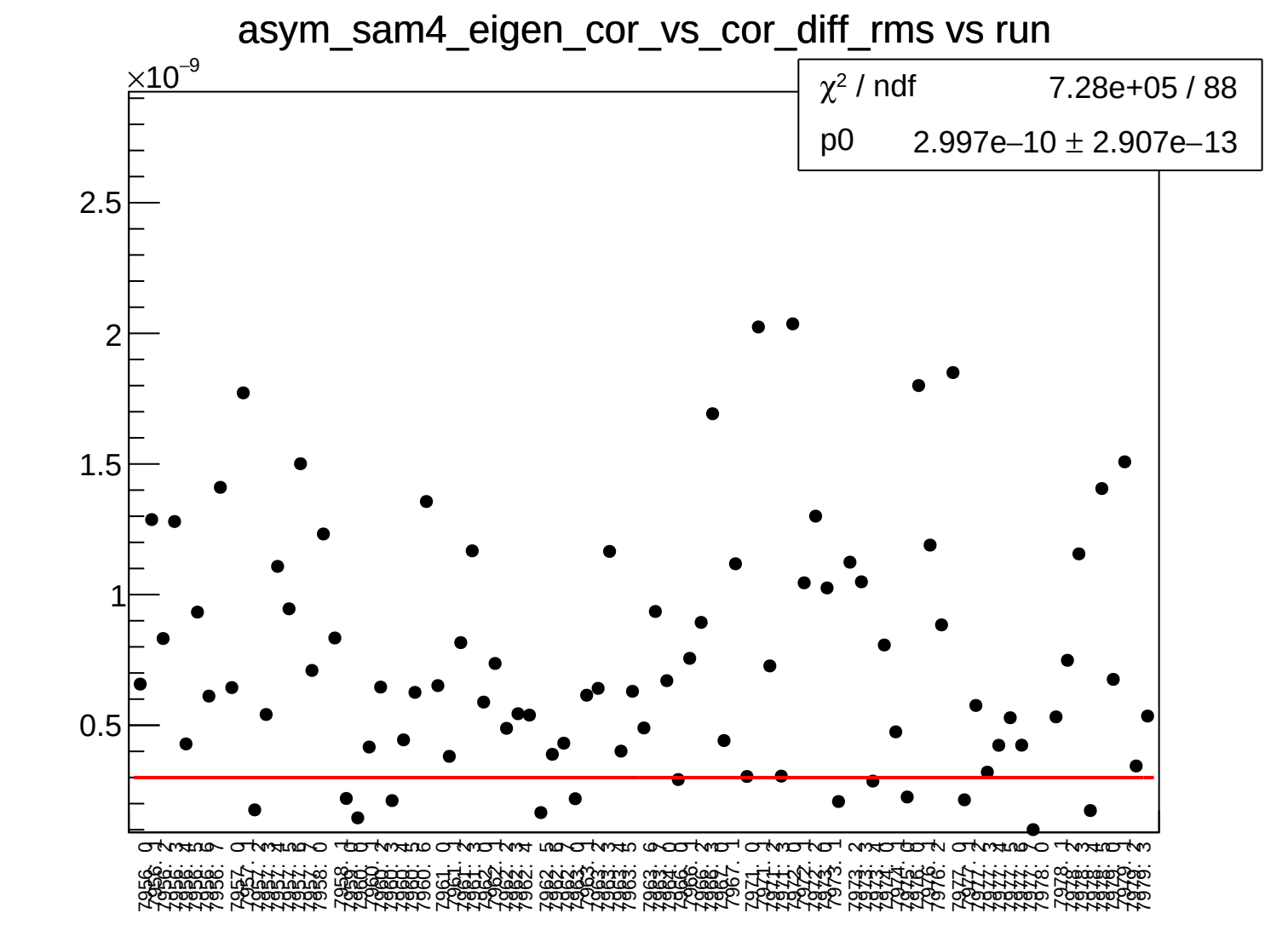

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.51 / 88
p0 −0.2324 ± 0.2651
pull
Entries 89
Mean −175.4
Std Dev 0

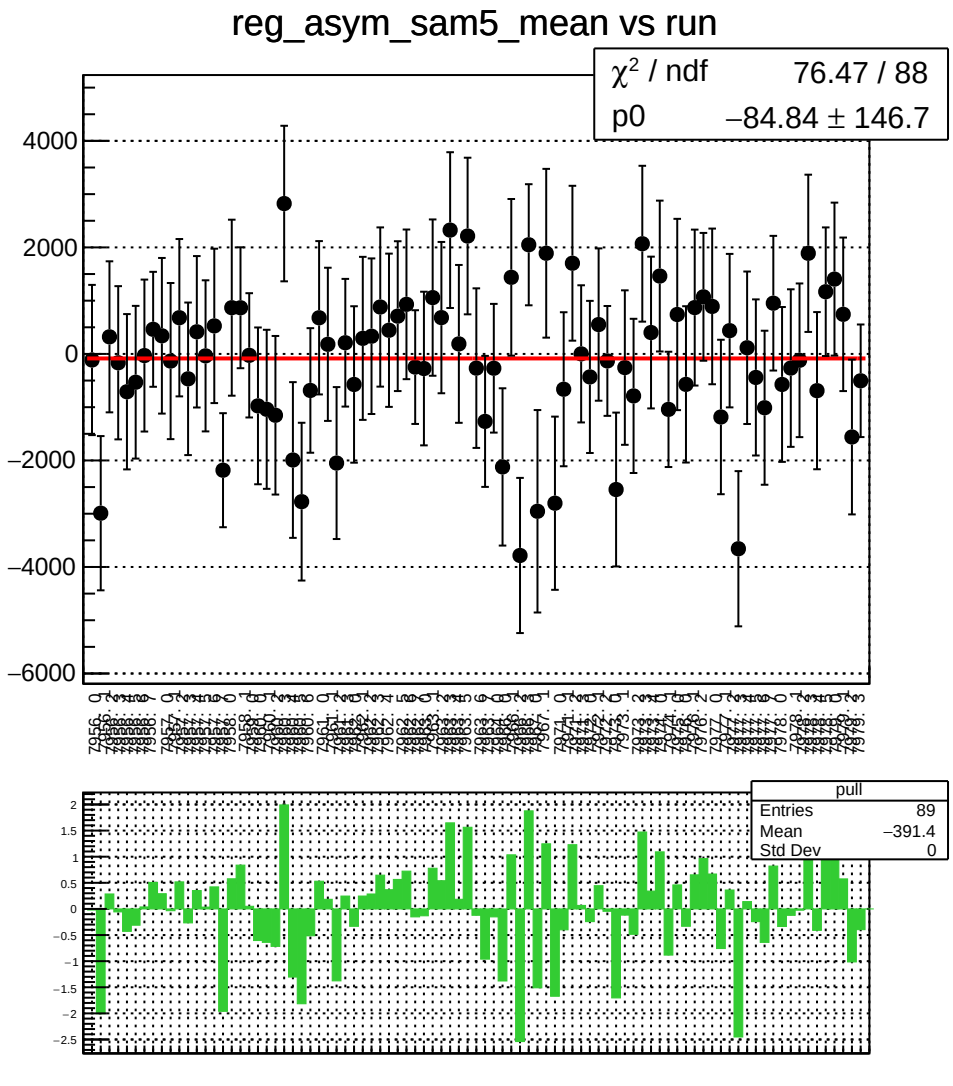

pull1D
Entries 89
Mean 0.01119
Std Dev 1.003

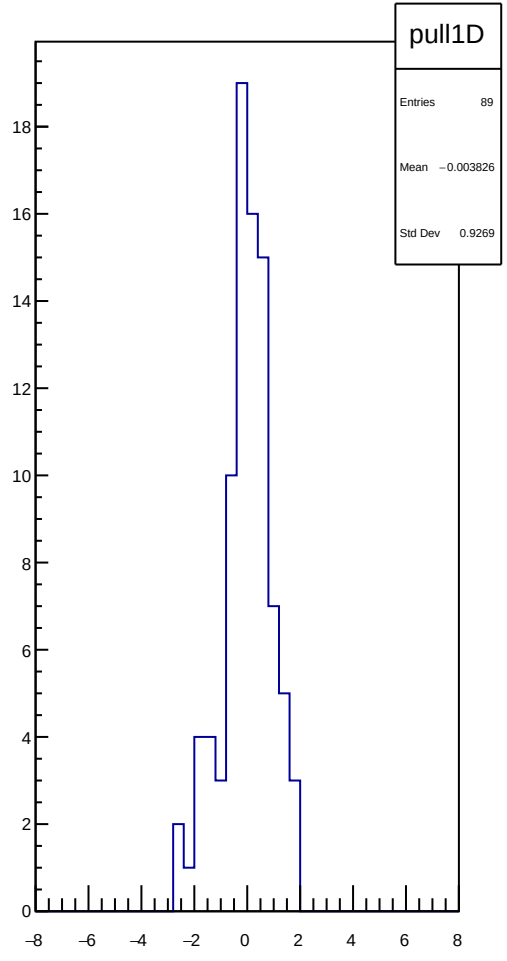

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.823e+05 / 88
p0 230.3 ± 0.1875
1000
800
600
400
200

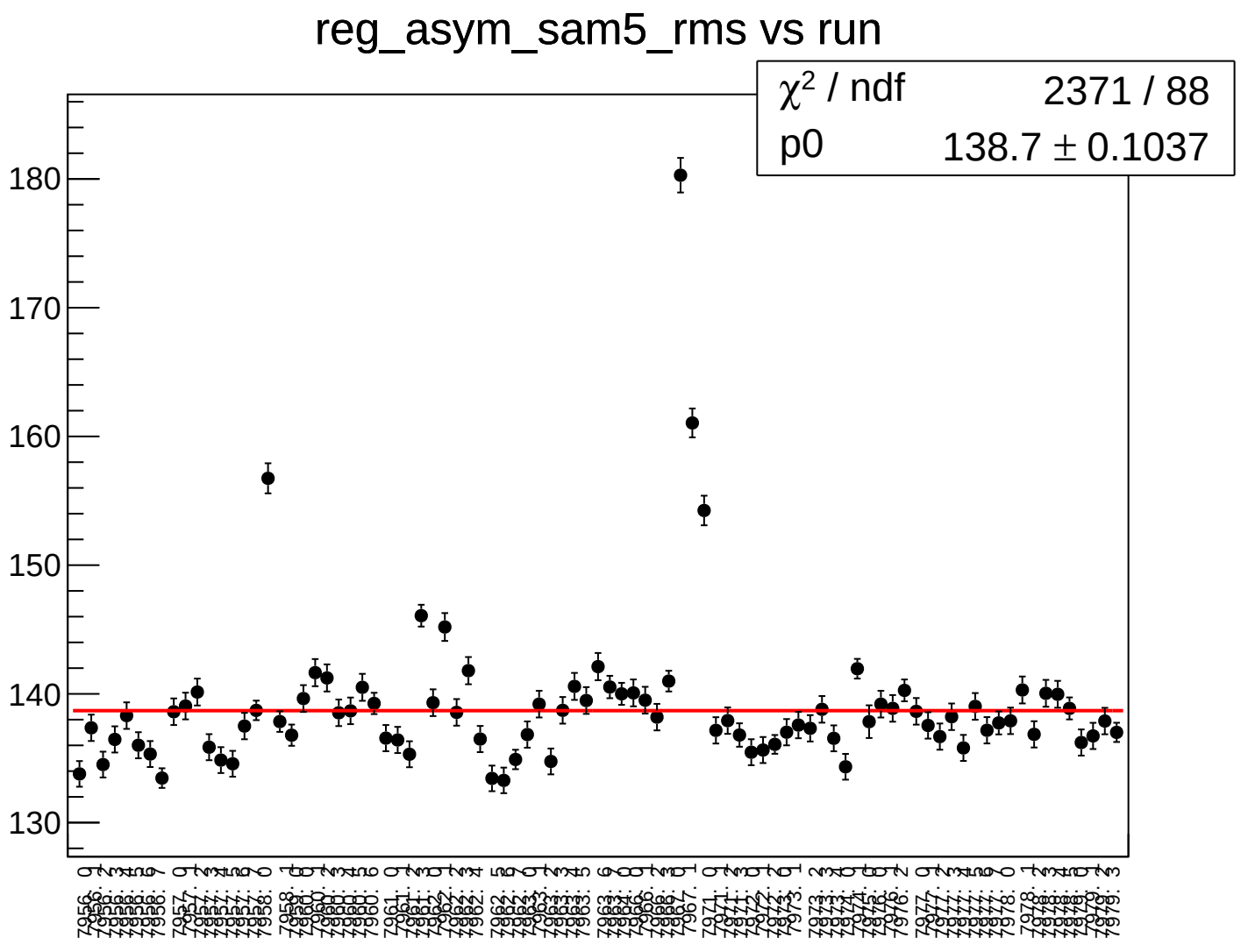

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.42 / 88
p0 −3.729e−13 ± 4.112e−13
pull
Entries 89
Mean 65.94
Std Dev 0

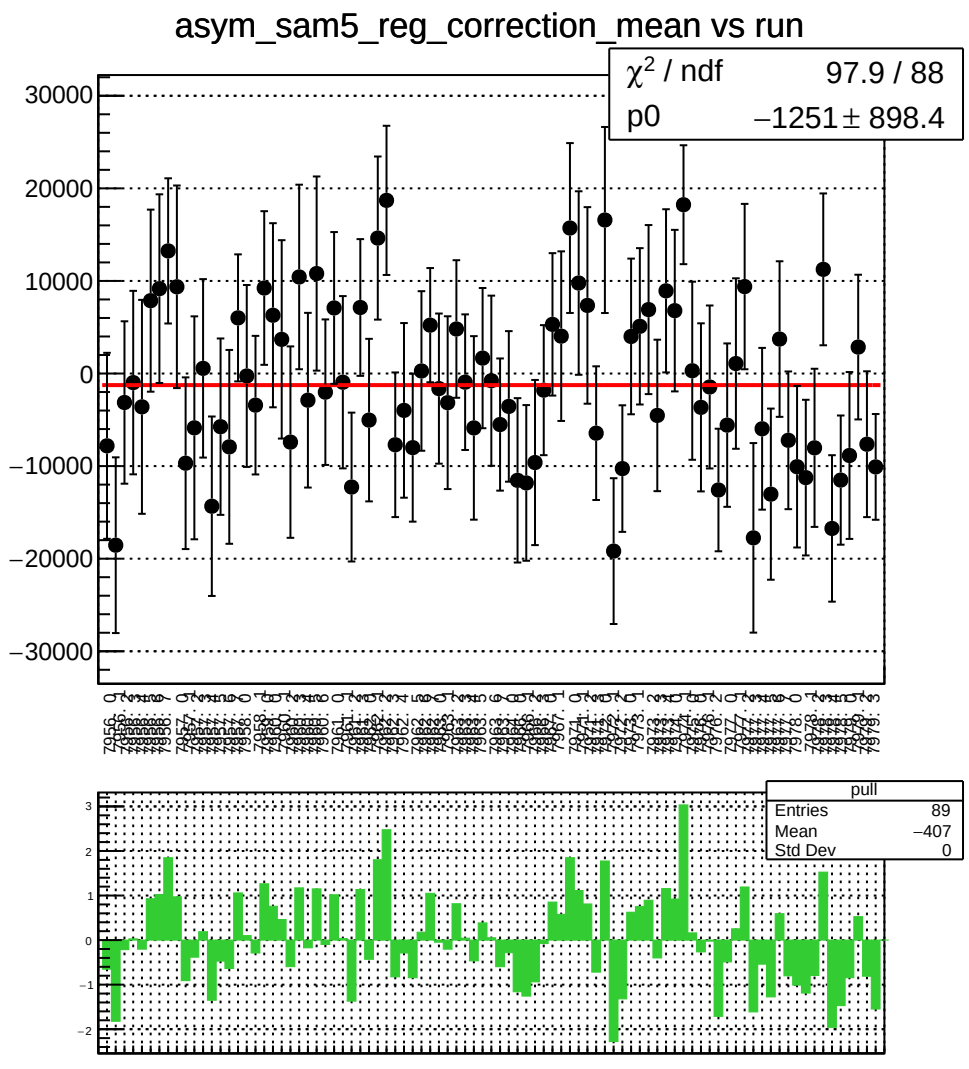

pull1D
Entries 89
Mean 0.02042
Std Dev 1.035

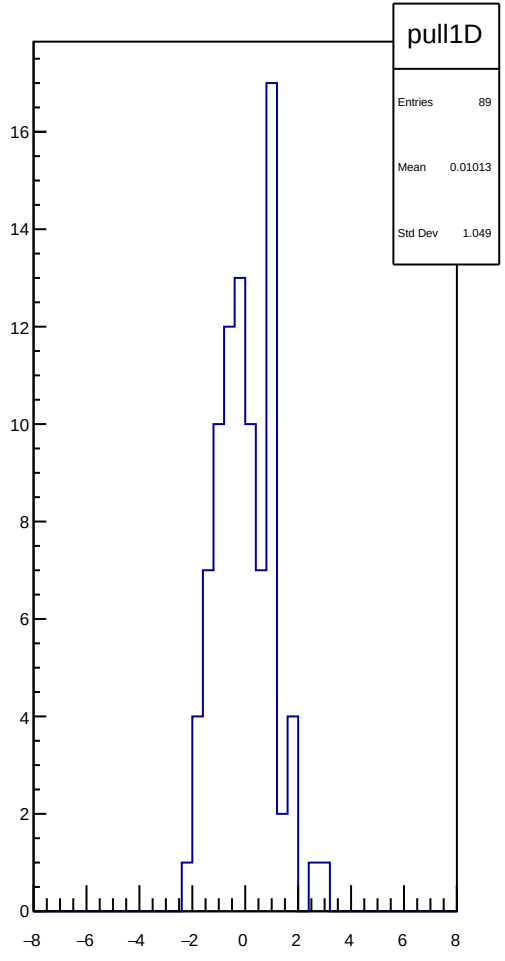

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.28e+05 / 88
p0 2.997e−10 ± 2.907e−13
2.5
2
1.5
1
0.5

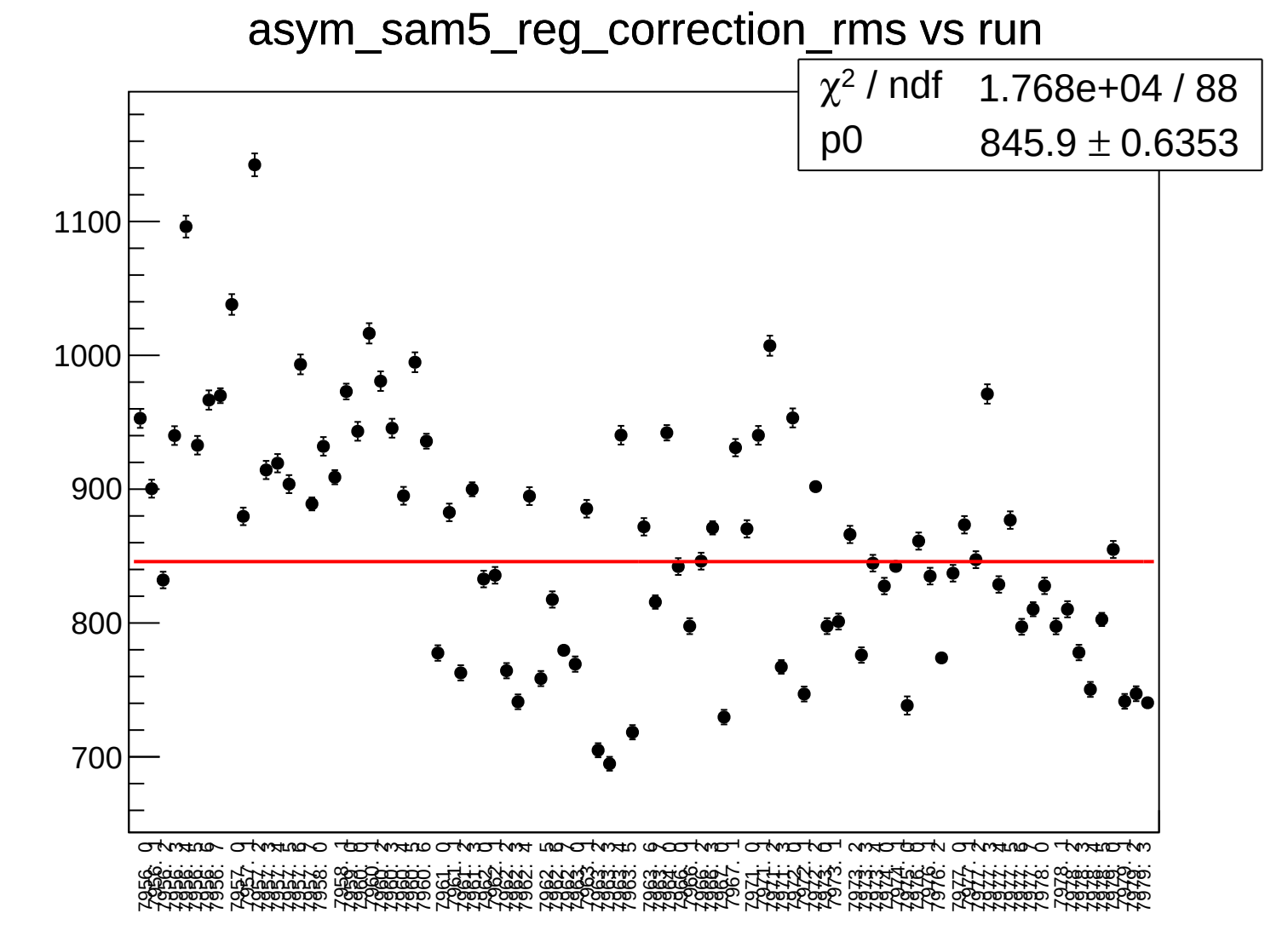

reg_asym_sam5_mean vs run
χ² / ndf 76.47 / 88
p0 −84.84 ± 146.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −391.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

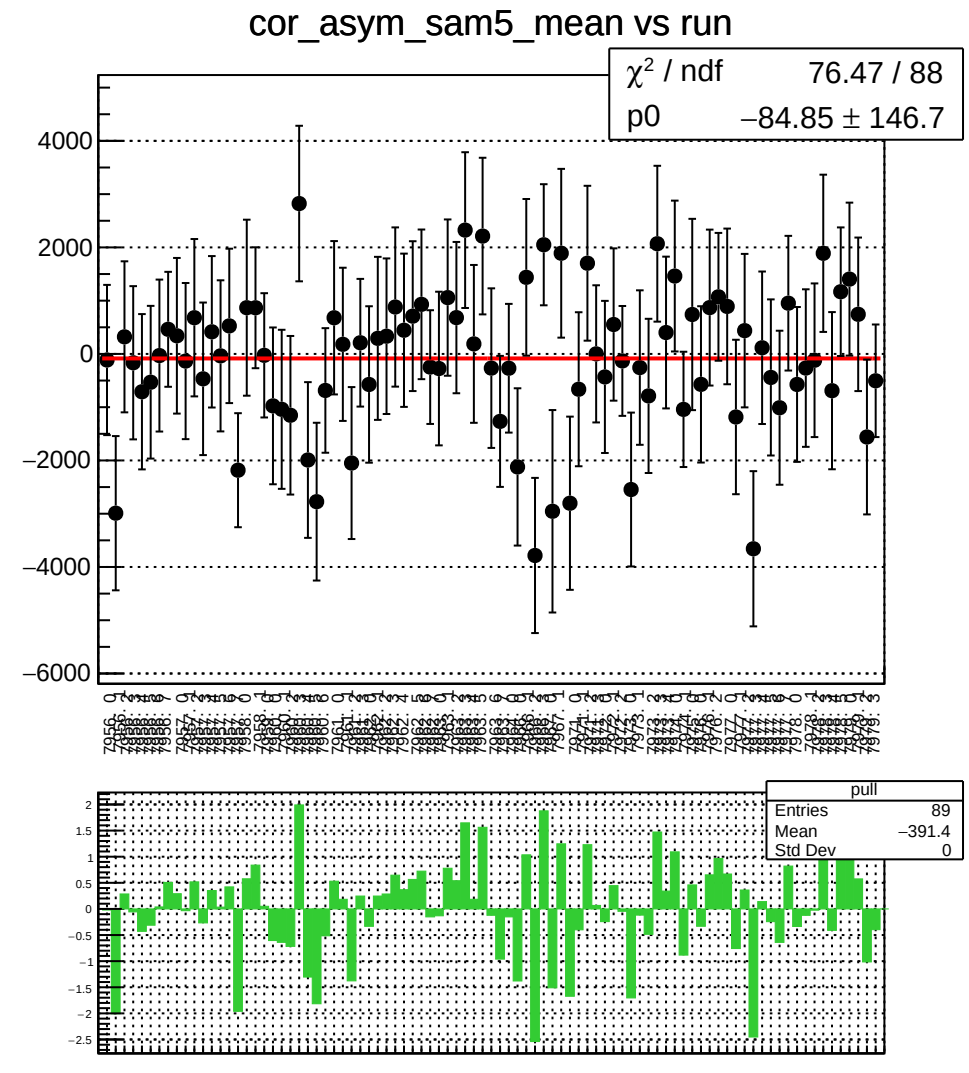

pull1D
Entries 89
Mean −0.003826
Std Dev 0.9269
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

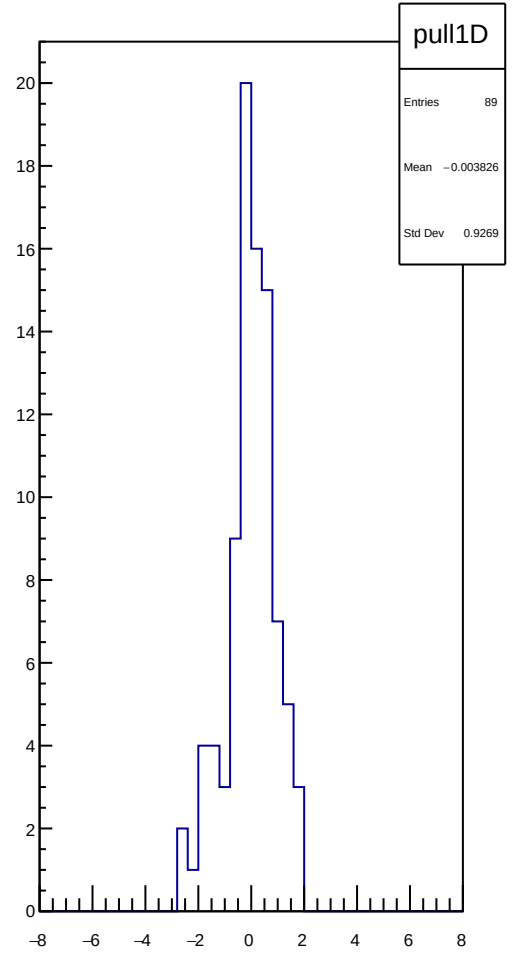

reg_asym_sam5_rms vs run
$\chi^2$ / ndf 2371 / 88
p0 138.7 ± 0.1037
180
170
160
150
140
130

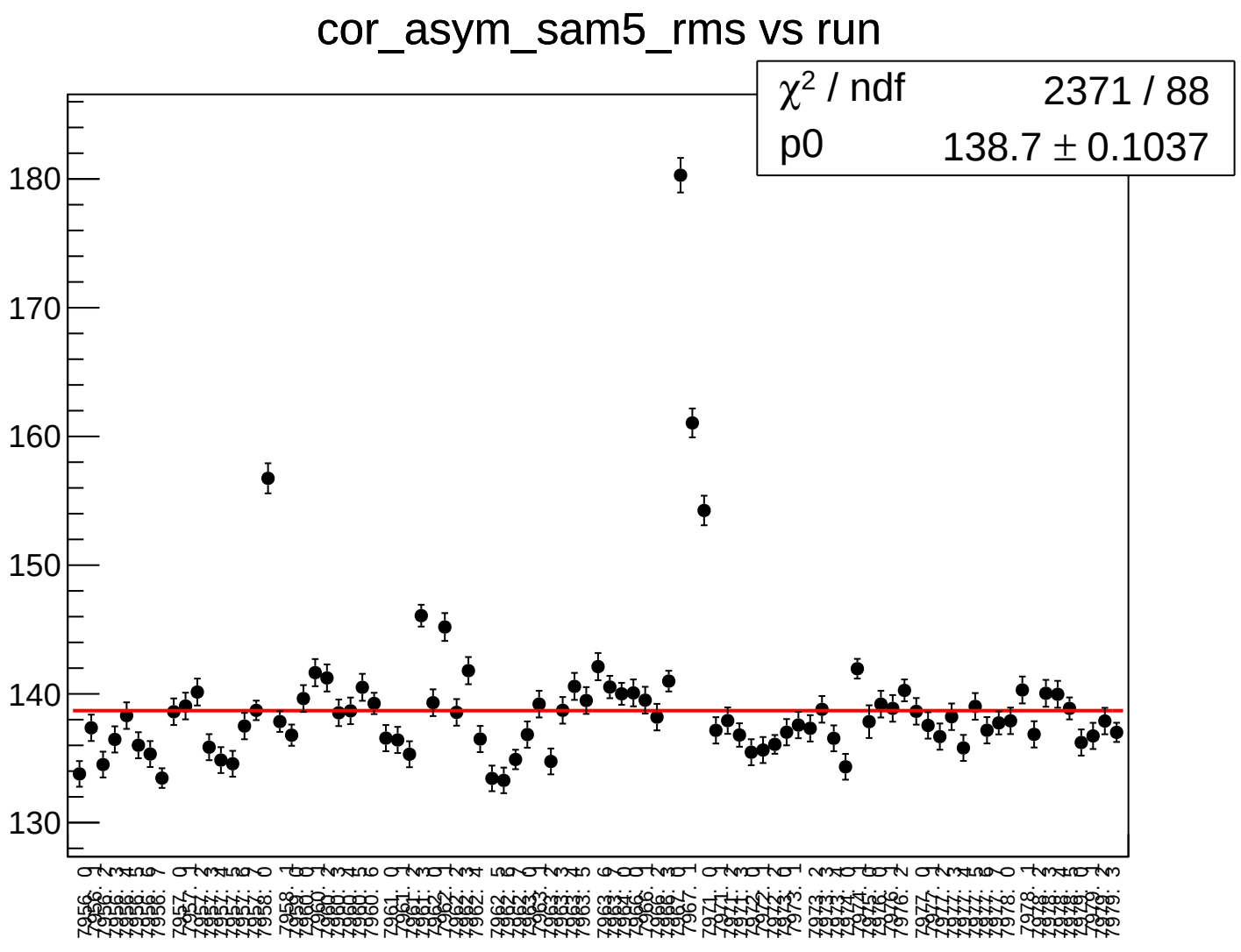

asym_sam5_reg_correction_mean vs run
χ² / ndf 97.9 / 88
p0 −1251 ± 898.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −407
Std Dev 0
3
2
1
0
−1
−2

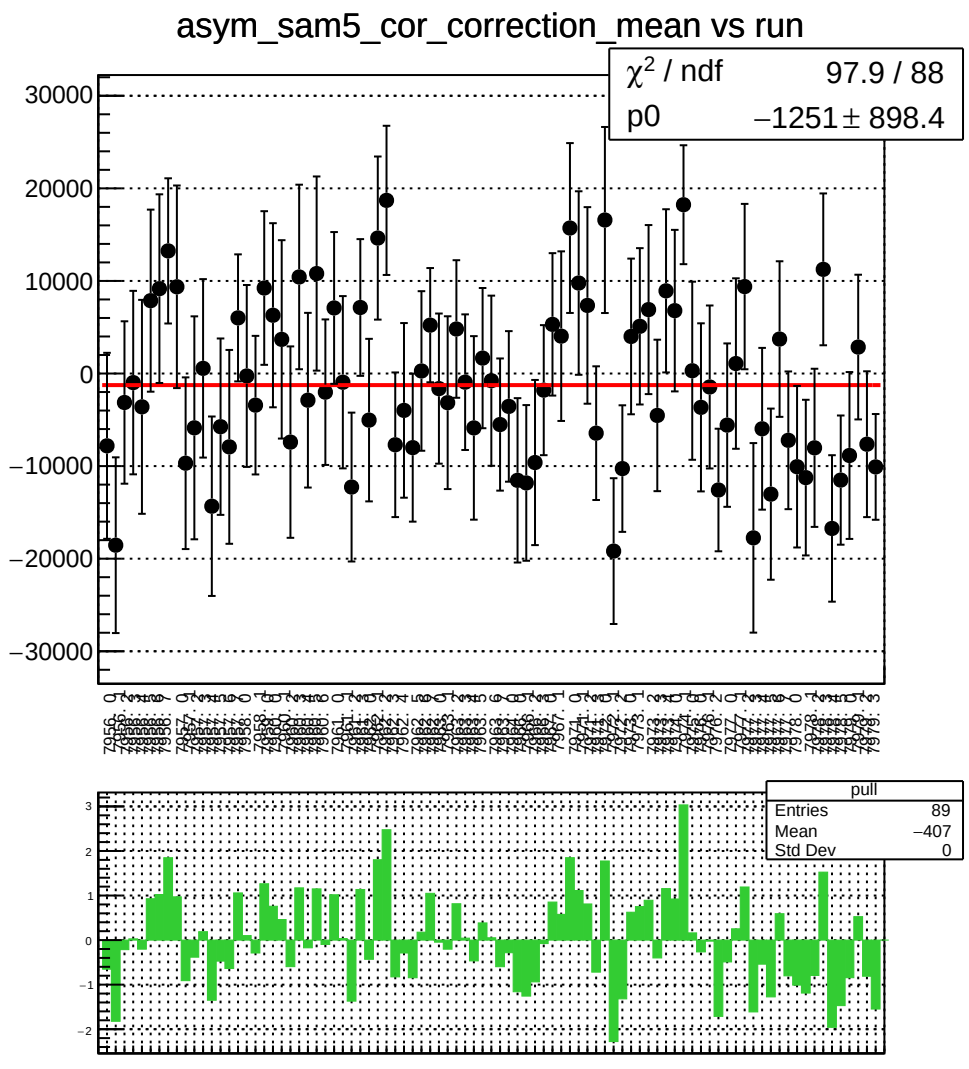

pull1D
Entries 89
Mean 0.01013
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

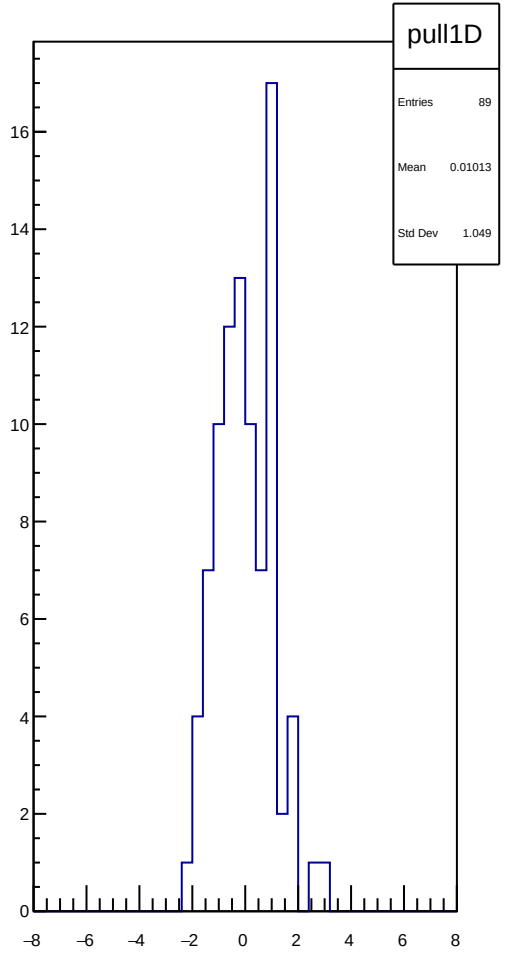

asym_sam5_reg_correction_rms vs run
χ² / ndf 1.768e+04 / 88
p0 845.9 ± 0.6353
1100
1000
900
800
700

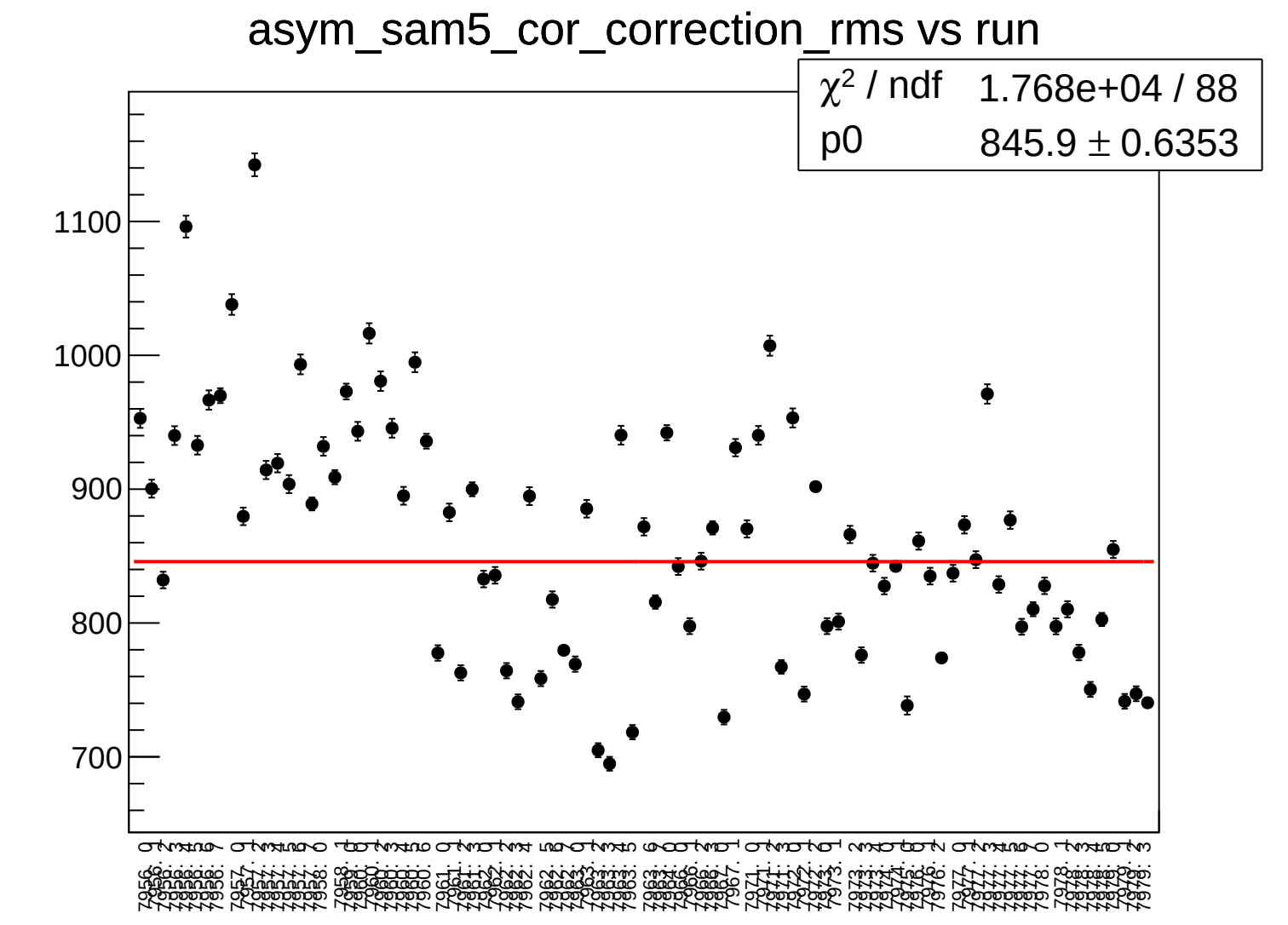

cor_asym_sam5_mean vs run
χ² / ndf 76.47 / 88
p0 −84.85 ± 146.7
pull
Entries 89
Mean −391.4
Std Dev 0

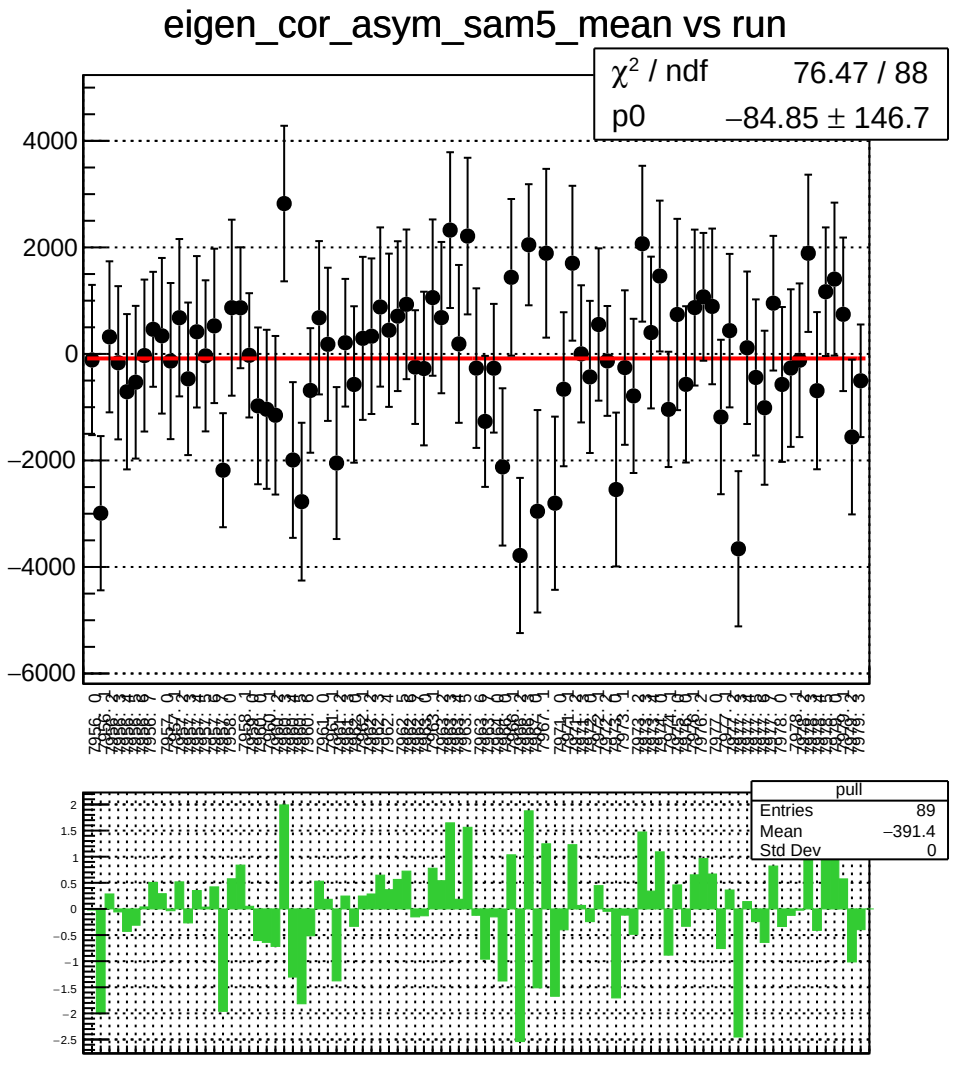

pull1D
Entries 89
Mean −0.003826
Std Dev 0.9269

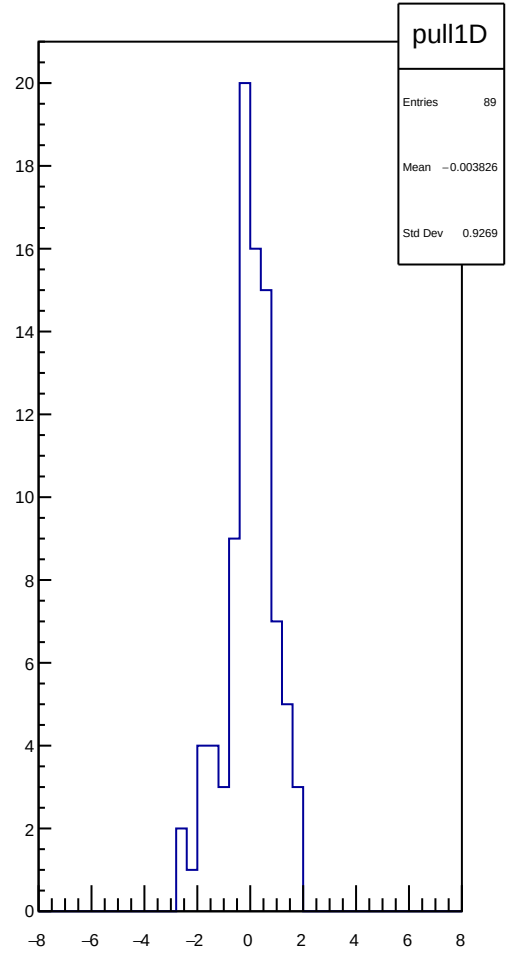

cor_asym_sam5_rms vs run
χ² / ndf 2371 / 88
p0 138.7 ± 0.1037
180
170
160
150
140
130

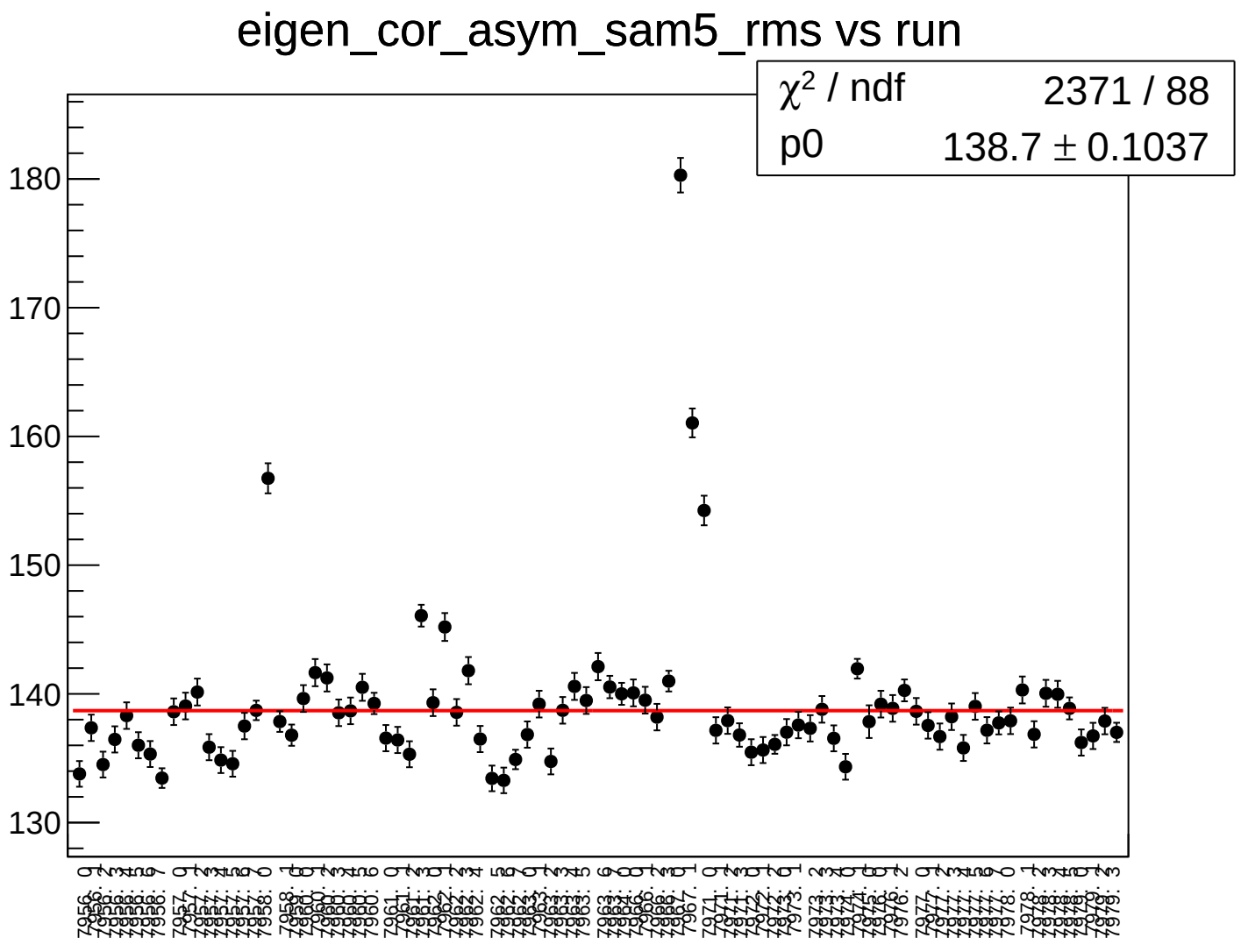

asym_sam5_cor_correction_mean vs run
χ² / ndf 97.9 / 88
p0 −1251 ± 898.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −407
Std Dev 0
3
2
1
0
−1
−2

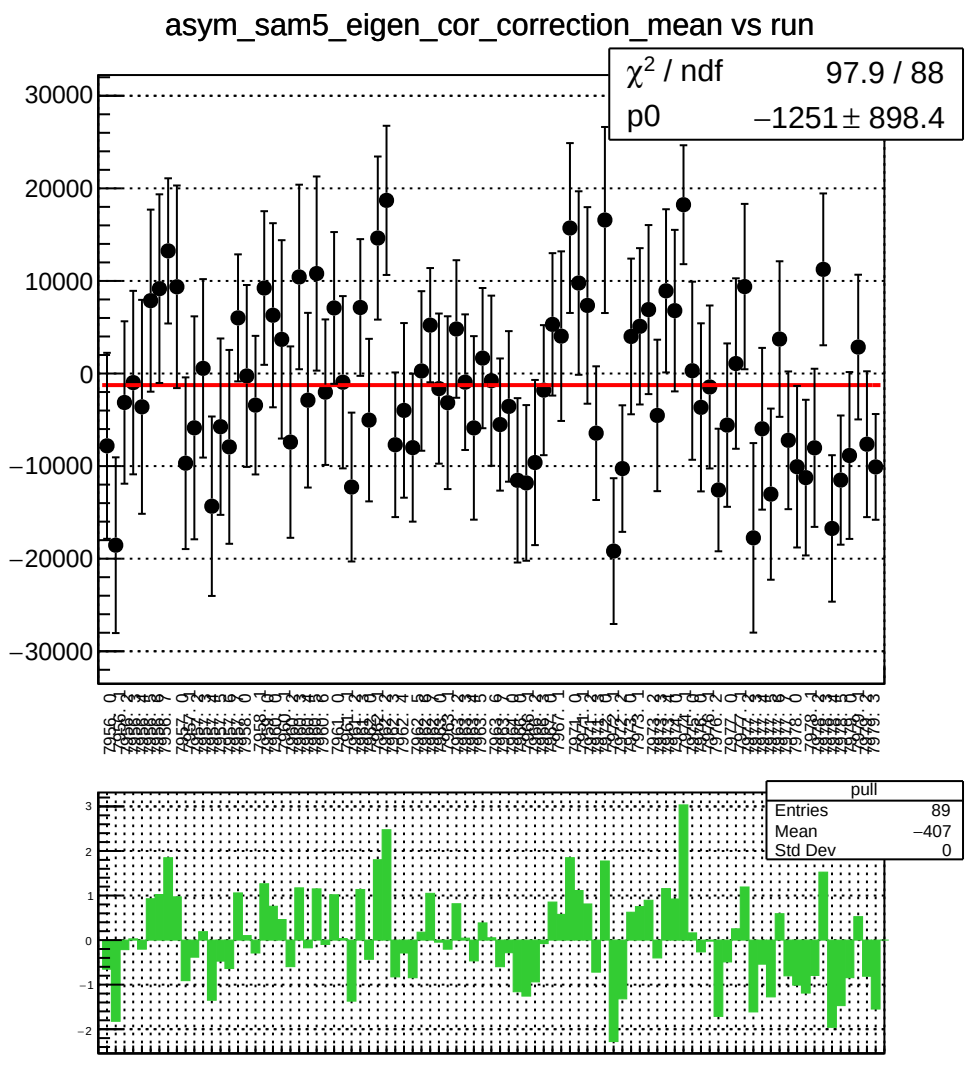

pull1D
Entries 89
Mean 0.01013
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

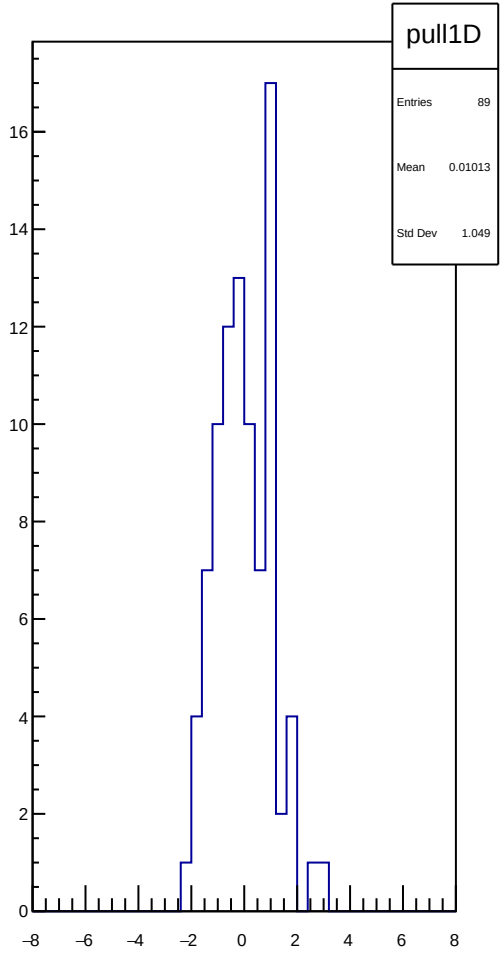

asym_sam5_cor_correction_rms vs run
χ² / ndf 1.768e+04 / 88
p0 845.9 ± 0.6353
1100
1000
900
800
700

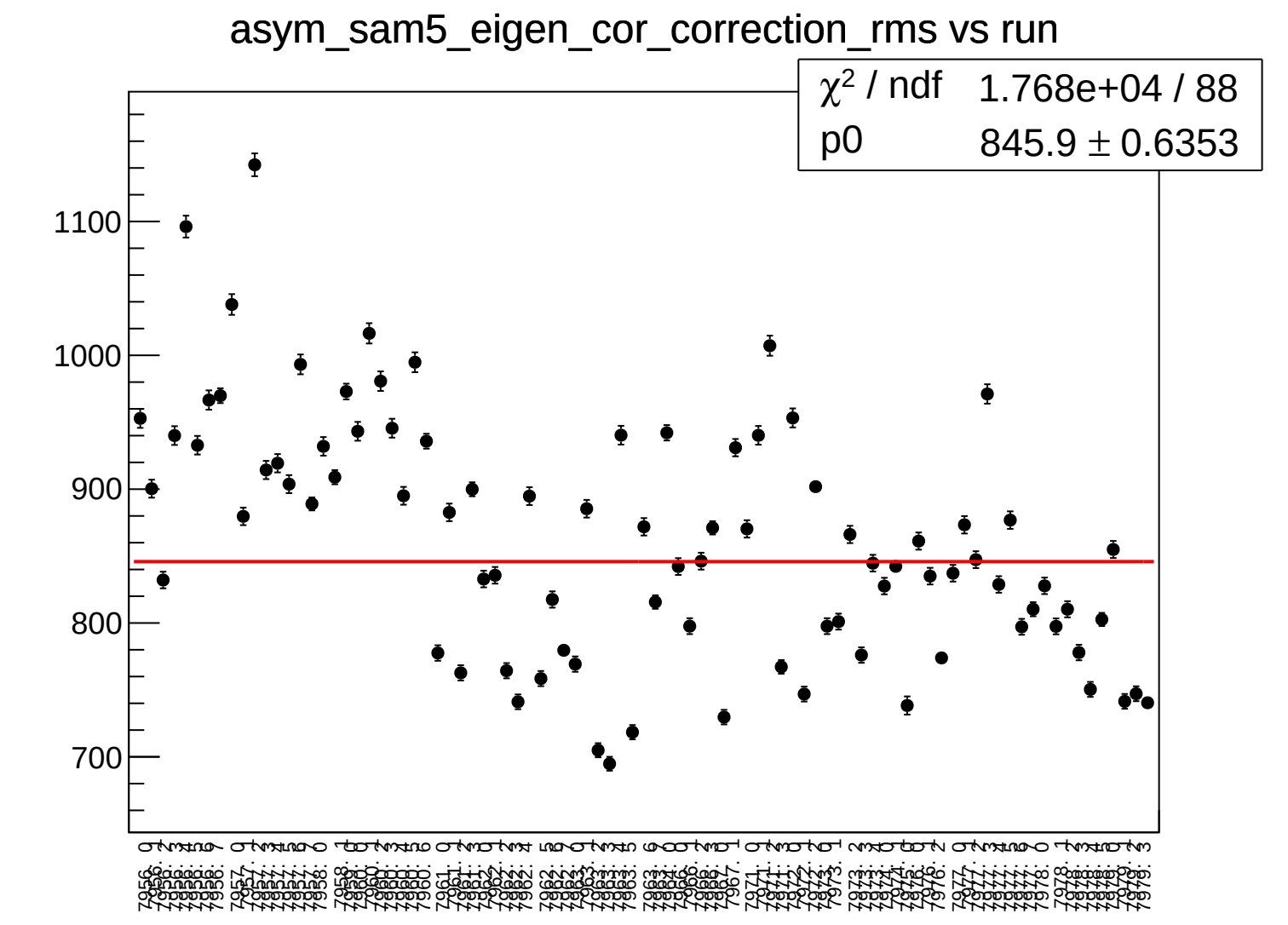

eigen_cor_asym_sam5_mean vs run
χ² / ndf 76.47 / 88
p0 −84.85 ± 146.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −391.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

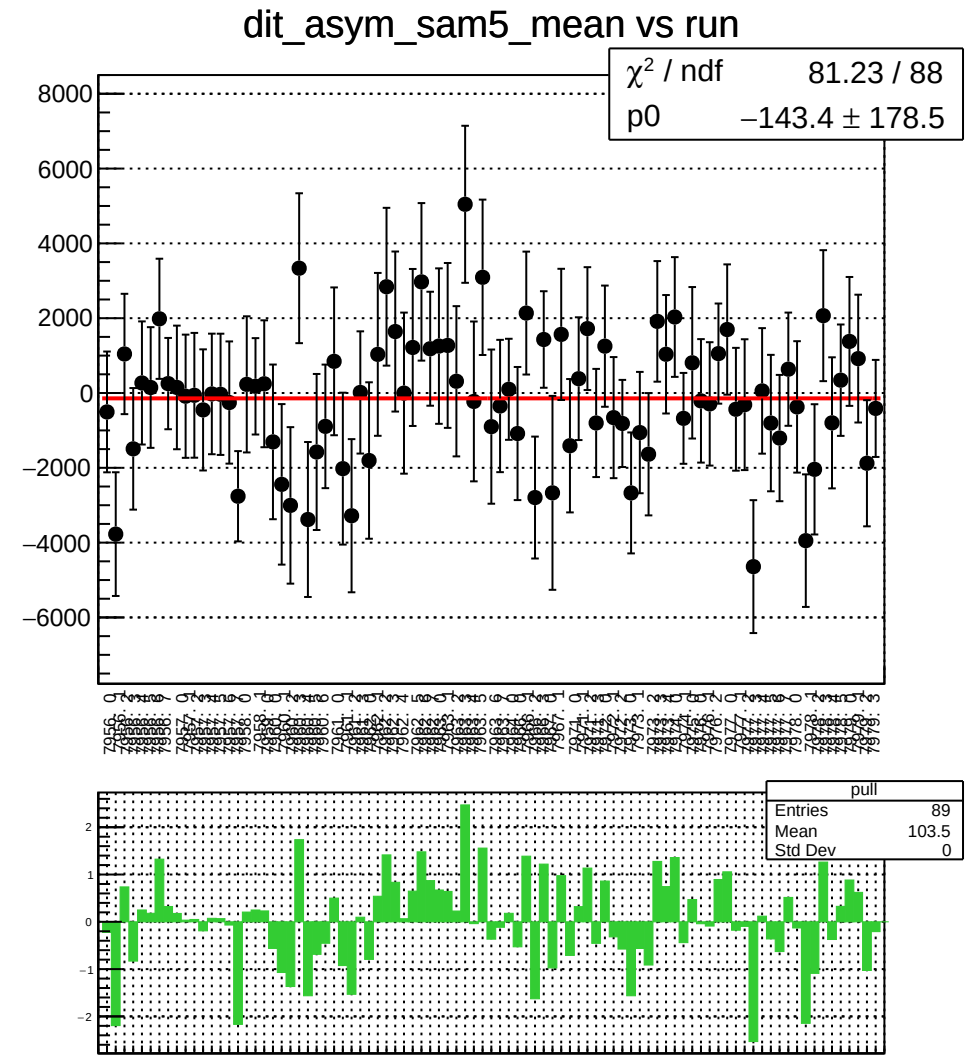

pull1D
Entries 89
Mean −0.003826
Std Dev 0.9269
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

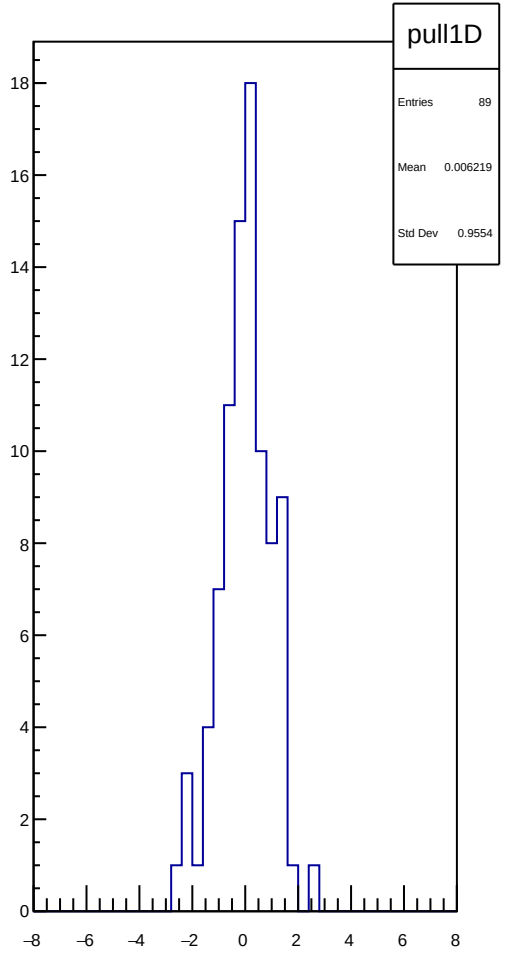

eigen_cor_asym_sam5_rms vs run
χ² / ndf 2371 / 88
p0 138.7 ± 0.1037
180
170
160
150
140
130

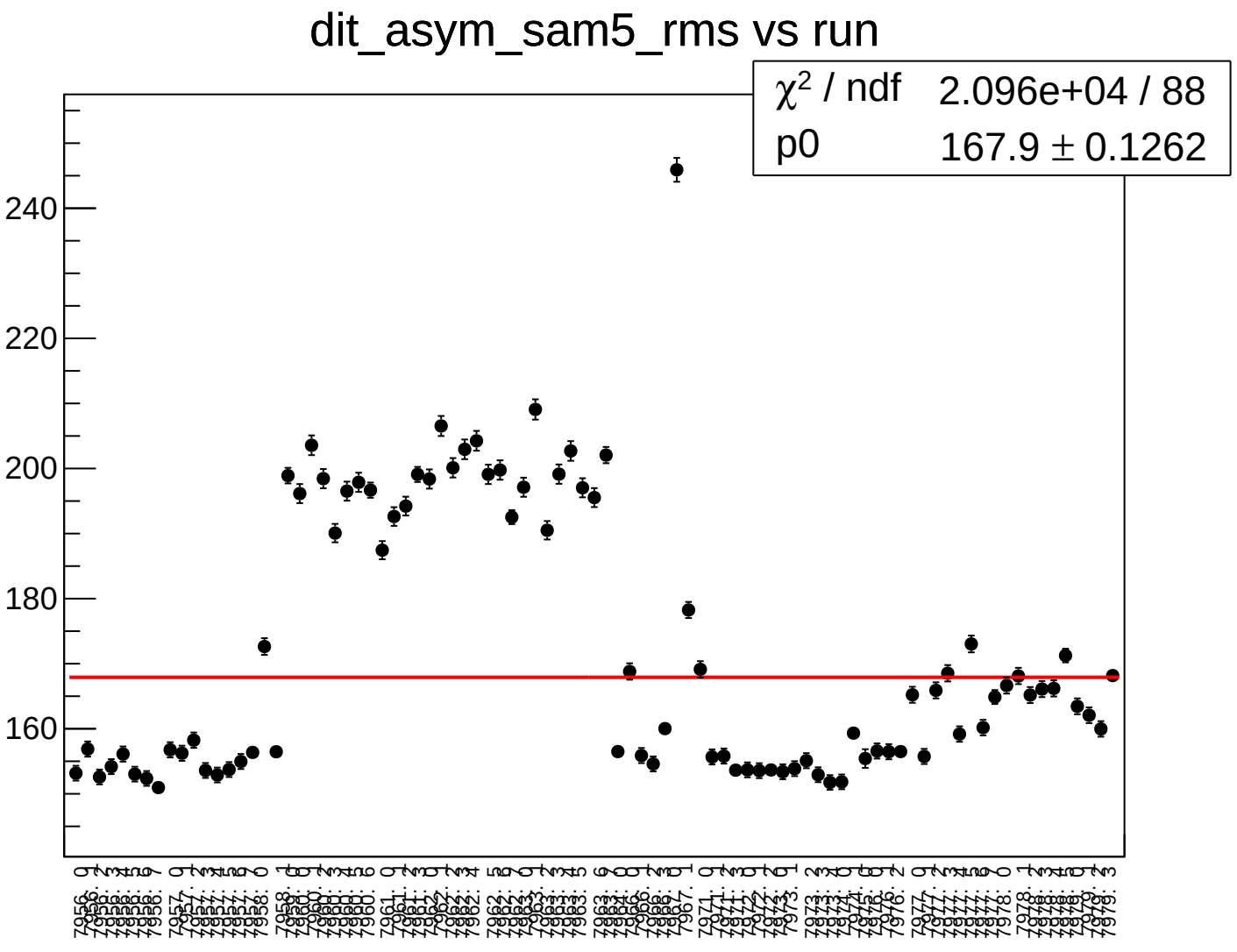

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 97.9 / 88
p0 −1251 ± 898.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −407
Std Dev 0
3
2
1
0
−1
−2

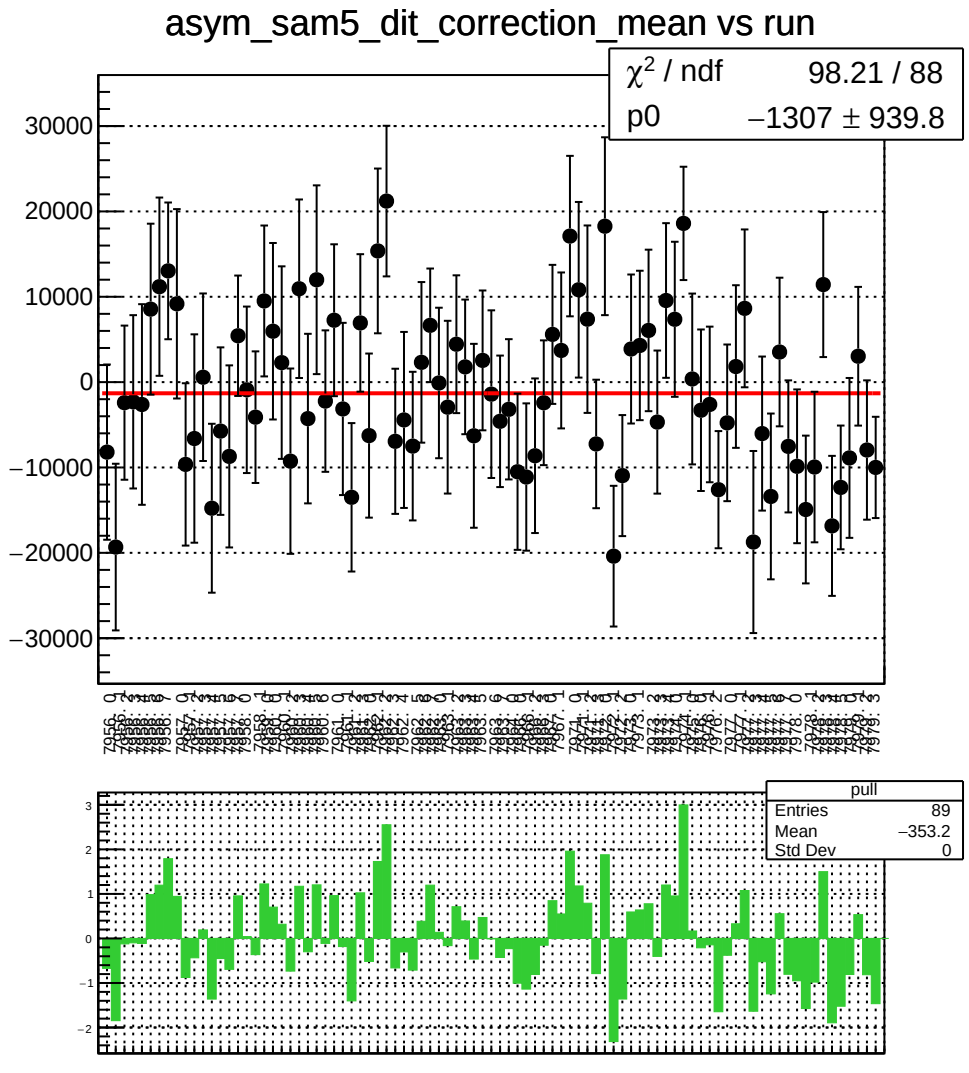

pull1D
Entries 89
Mean 0.01013
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

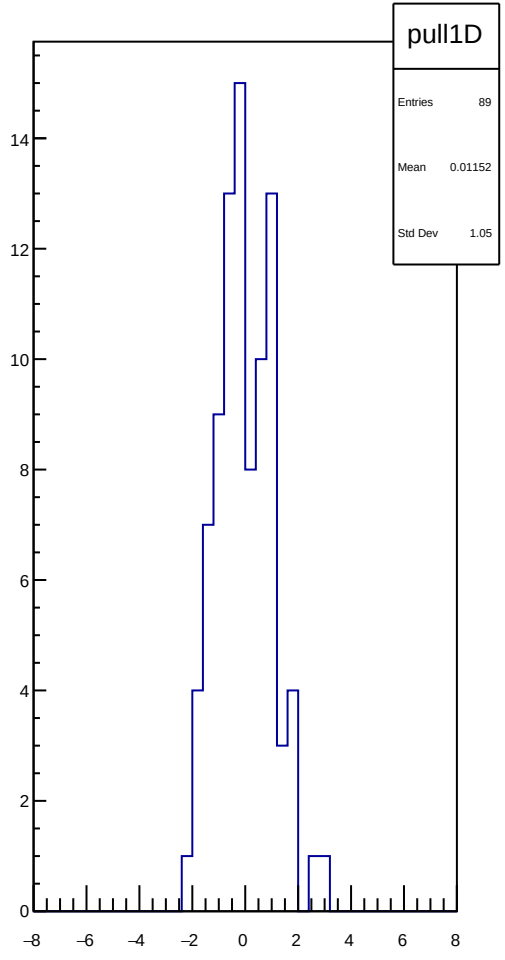

asym_sam5_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 1.768e+04 / 88
p0 845.9 ± 0.6353
1100
1000
900
800
700

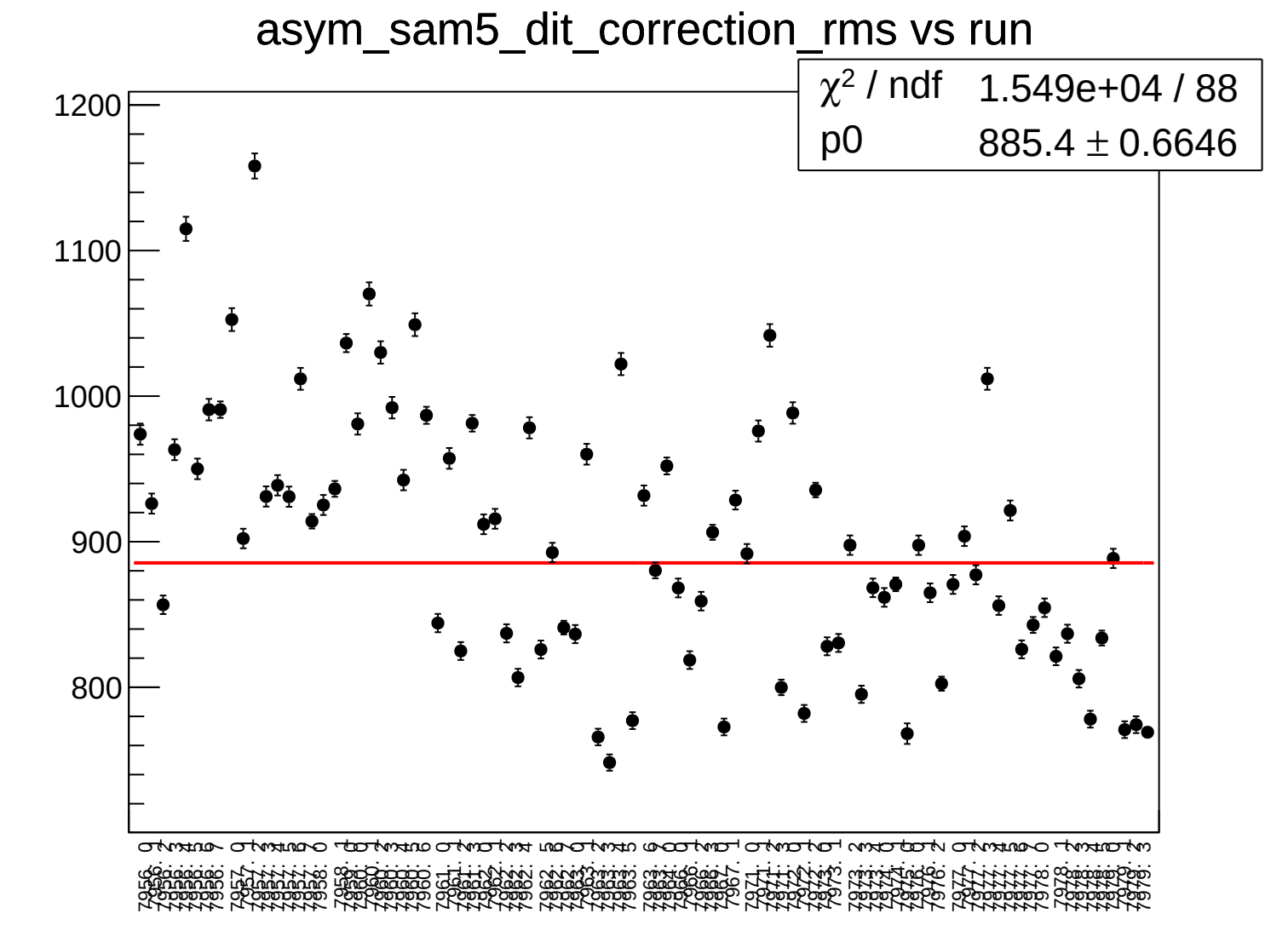

dit_asym_sam5_mean vs run
χ² / ndf 81.23 / 88
p0 −143.4 ± 178.5
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 103.5
Std Dev 0
2
1
0
−1
−2

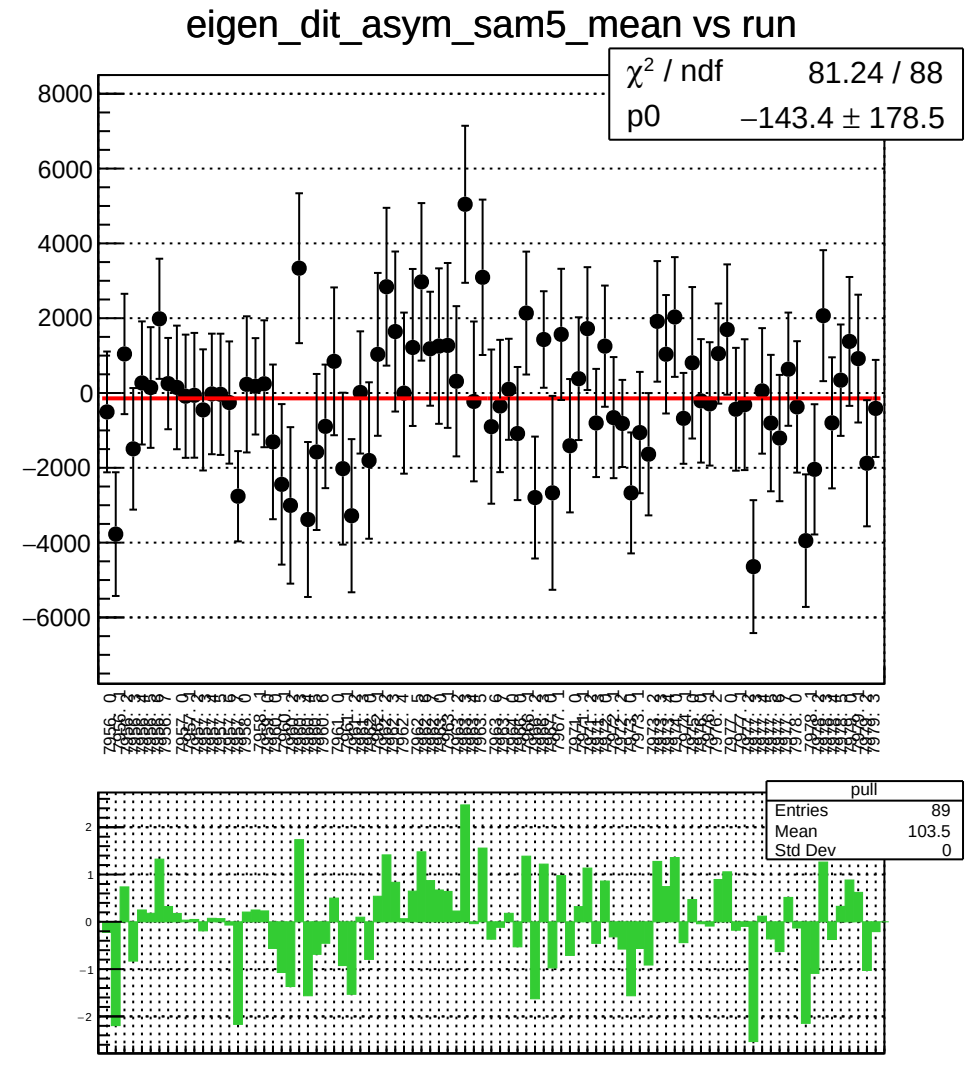

pull1D
Entries 89
Mean 0.006219
Std Dev 0.9554
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

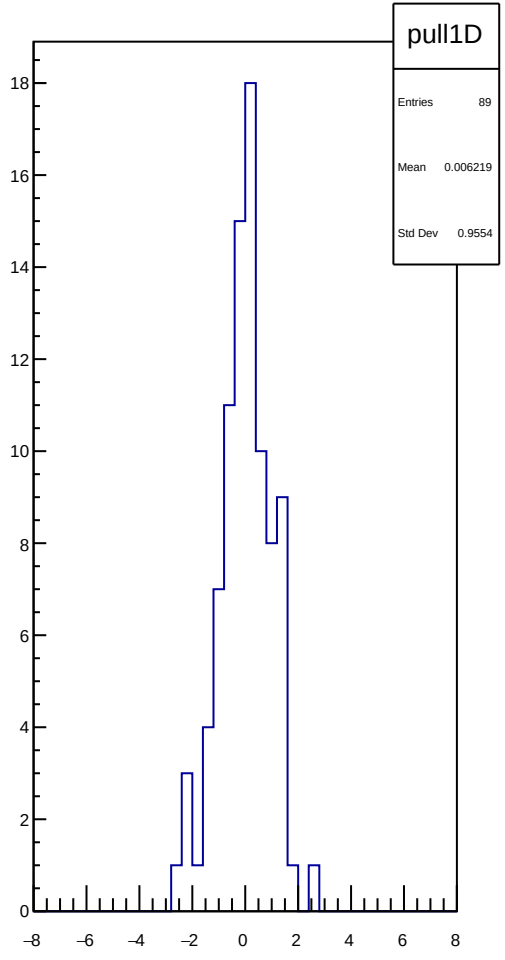

dit_asym_sam5_rms vs run
$\chi^2$ / ndf 2.096e+04 / 88
p0 167.9 ± 0.1262
240
220
200
180
160

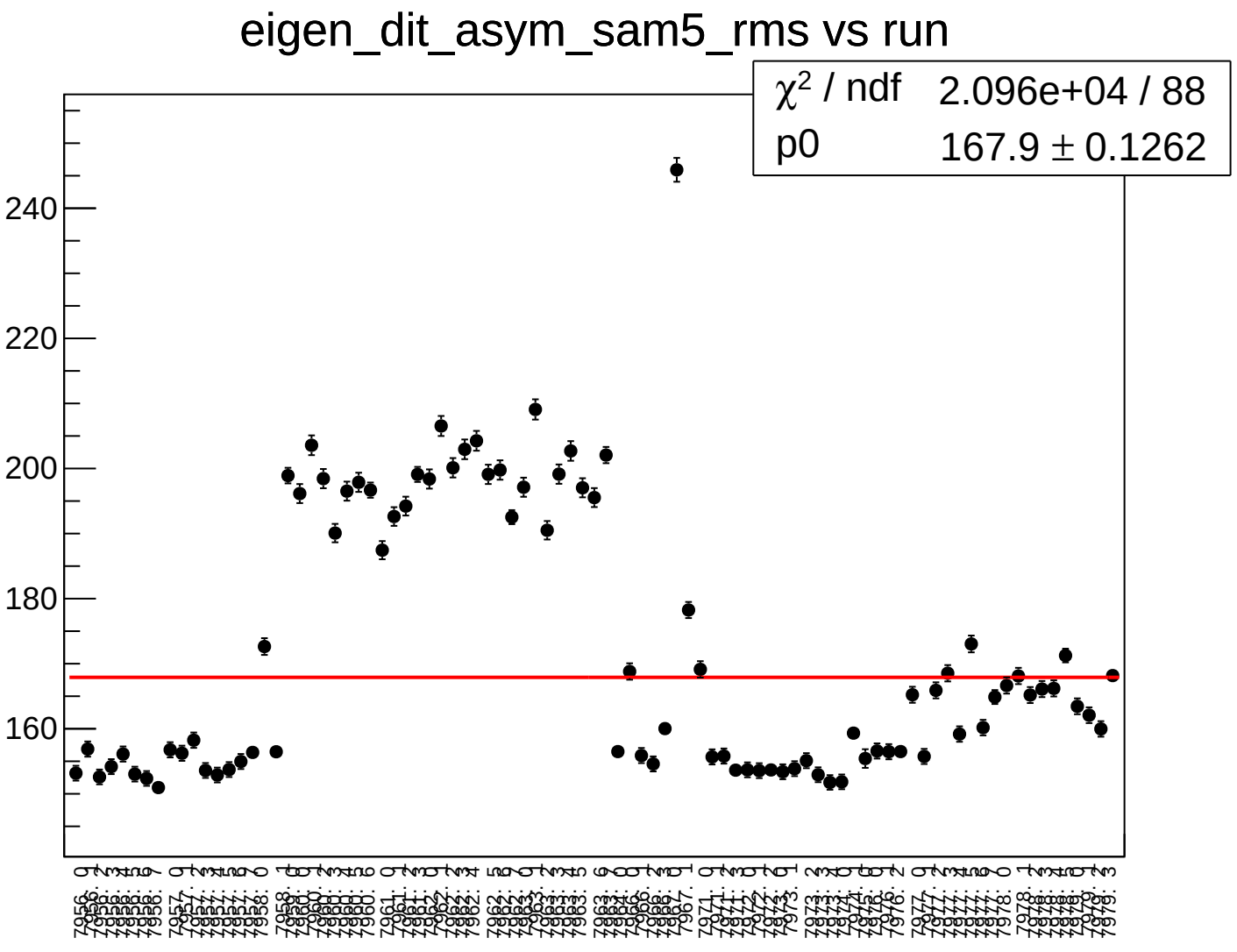

asym_sam5_dit_correction_mean vs run
χ² / ndf 98.21 / 88
p0 −1307 ± 939.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −353.2
Std Dev 0
3
2
1
0
−1
−2

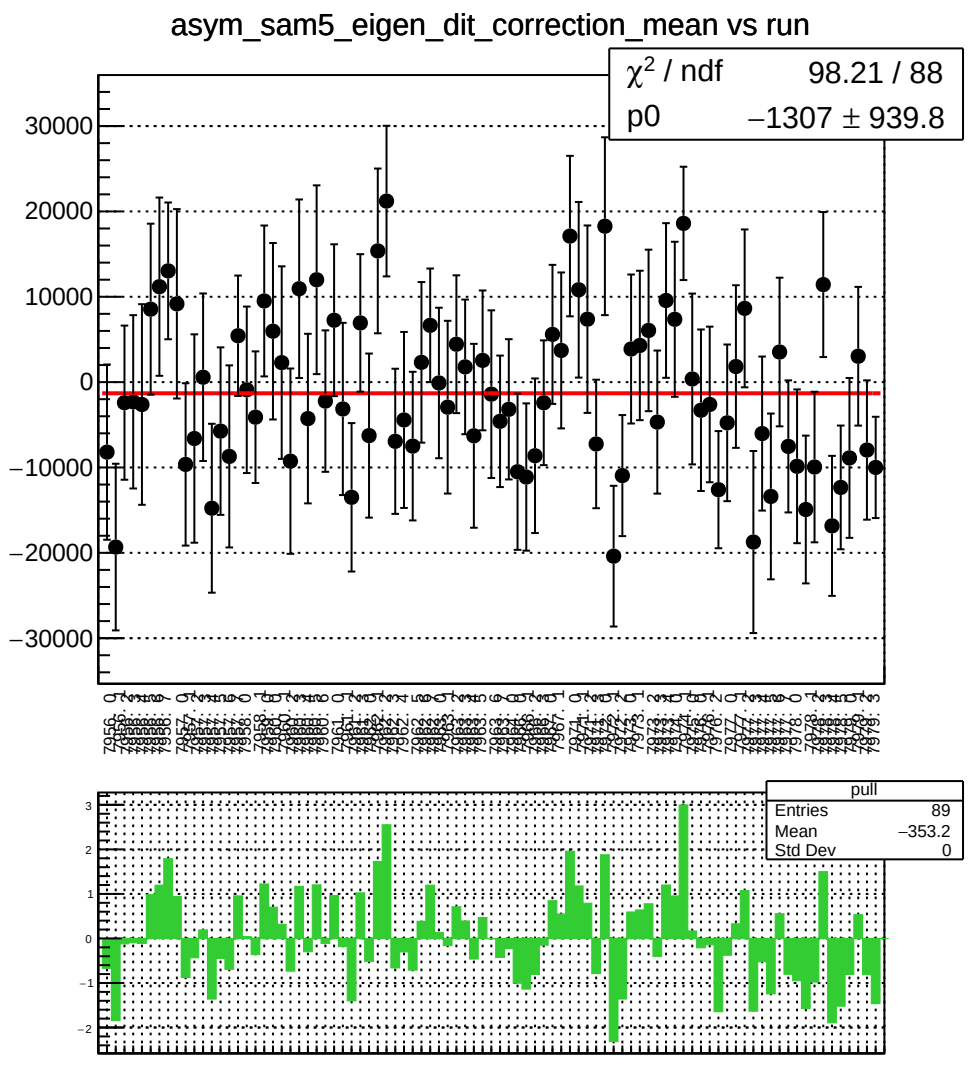

pull1D
Entries 89
Mean 0.01152
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

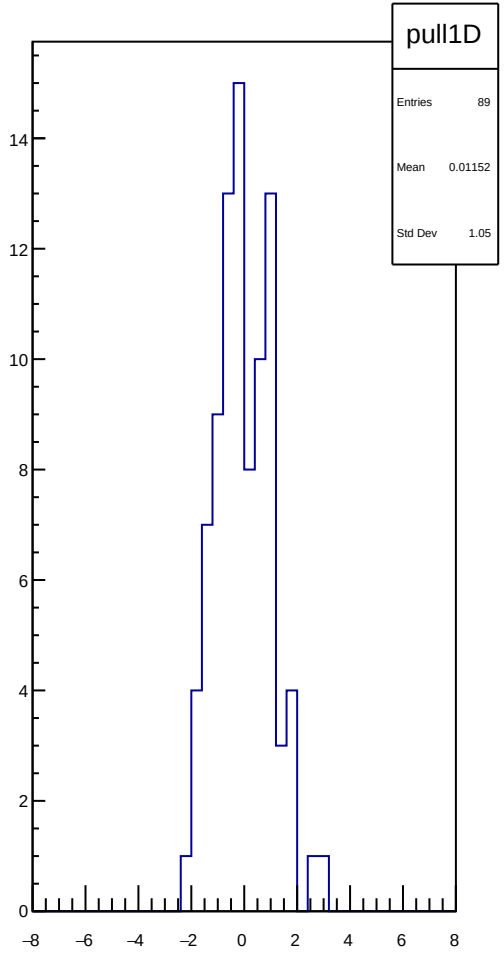

asym_sam5_dit_correction_rms vs run
χ² / ndf 1.549e+04 / 88
p0 885.4 ± 0.6646
1200
1100
1000
900
800

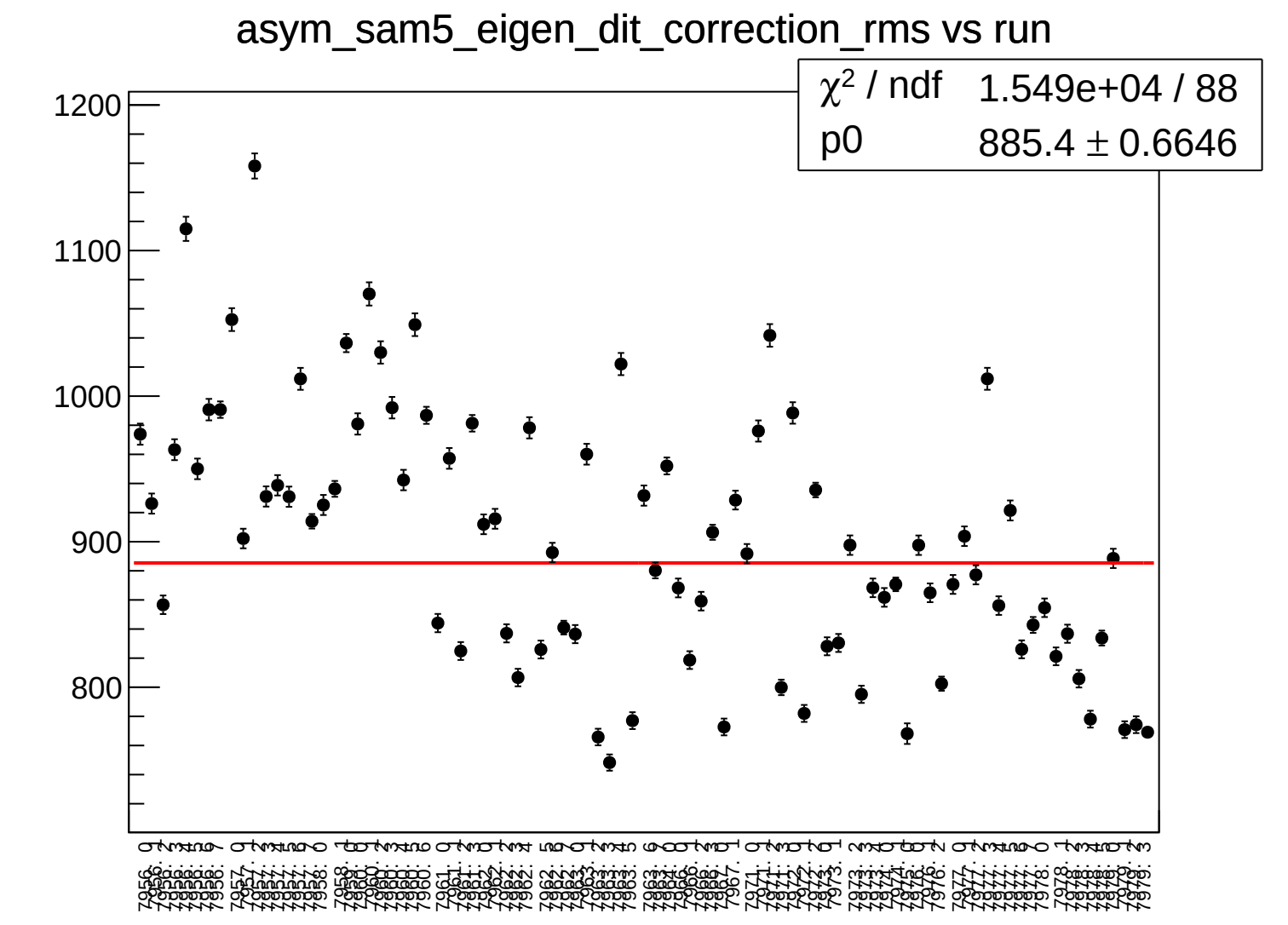

eigen_dit_asym_sam5_mean vs run
χ² / ndf 81.24 / 88
p0 −143.4 ± 178.5
pull
Entries 89
Mean 103.5
Std Dev 0

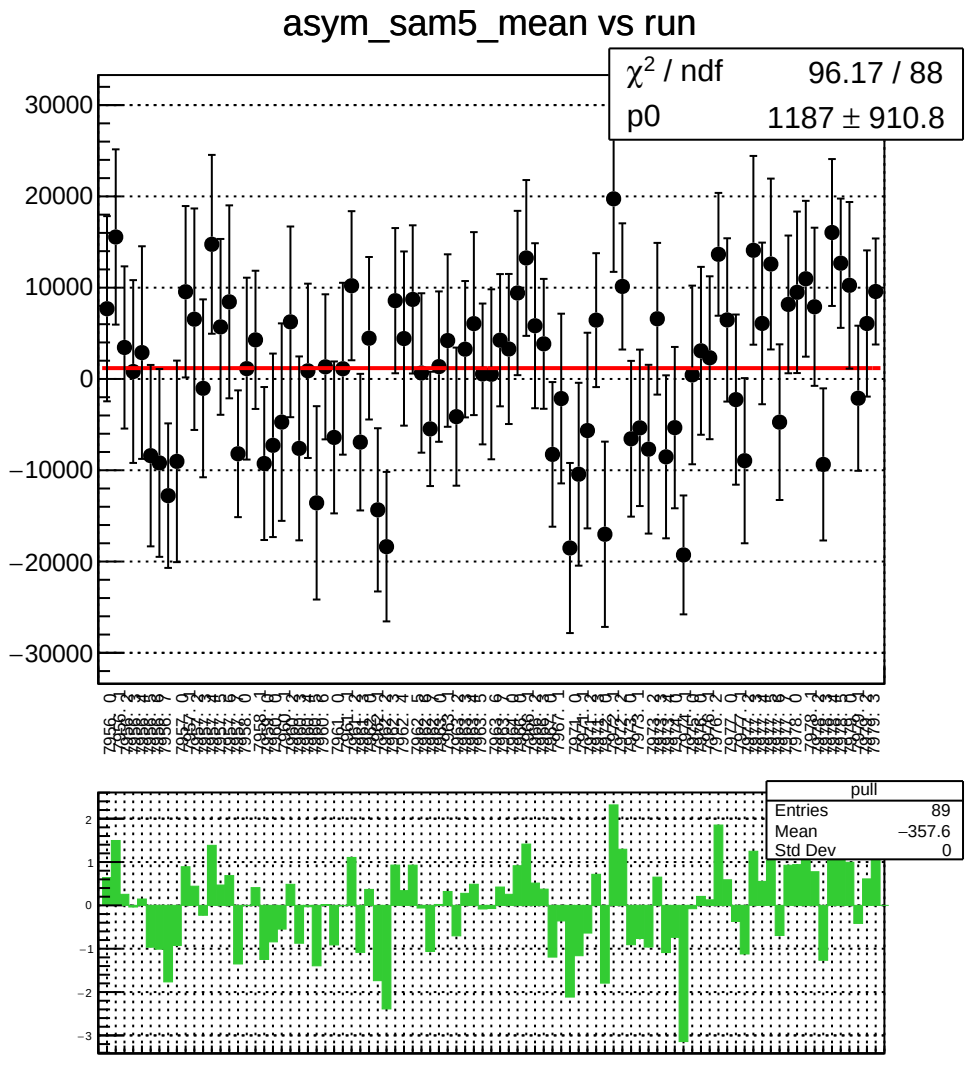

pull1D
Entries 89
Mean 0.006219
Std Dev 0.9554

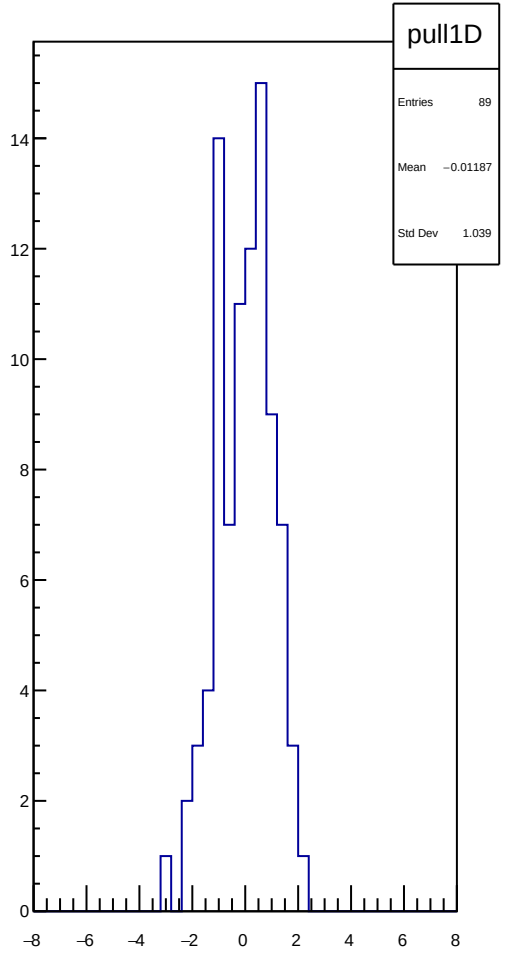

eigen_dit_asym_sam5_rms vs run
$\chi^2$ / ndf 2.096e+04 / 88
p0 167.9 ± 0.1262
240
220
200
180
160

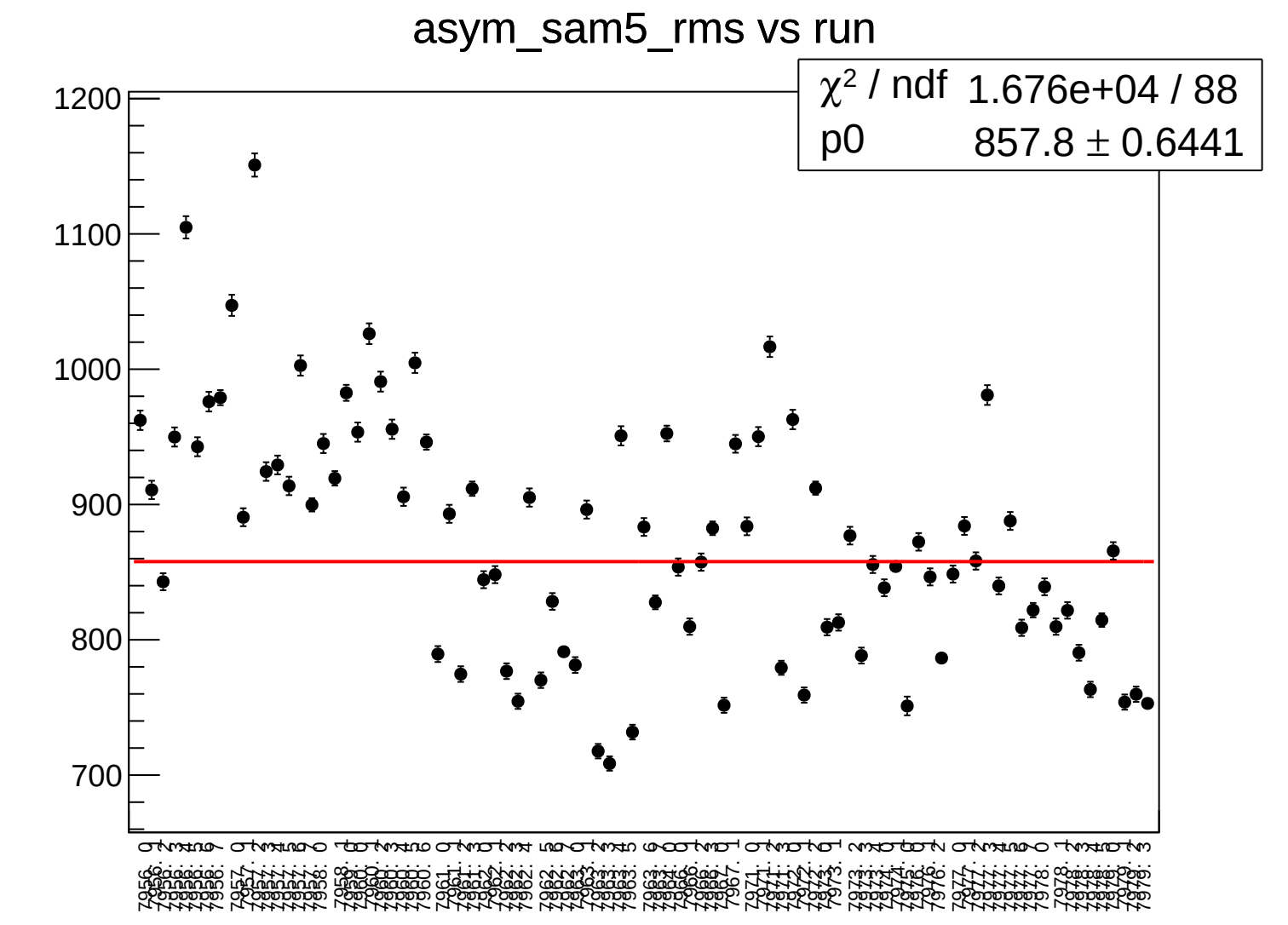

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 98.21 / 88
p0 −1307 ± 939.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −353.2
Std Dev 0
3
2
1
0
−1
−2

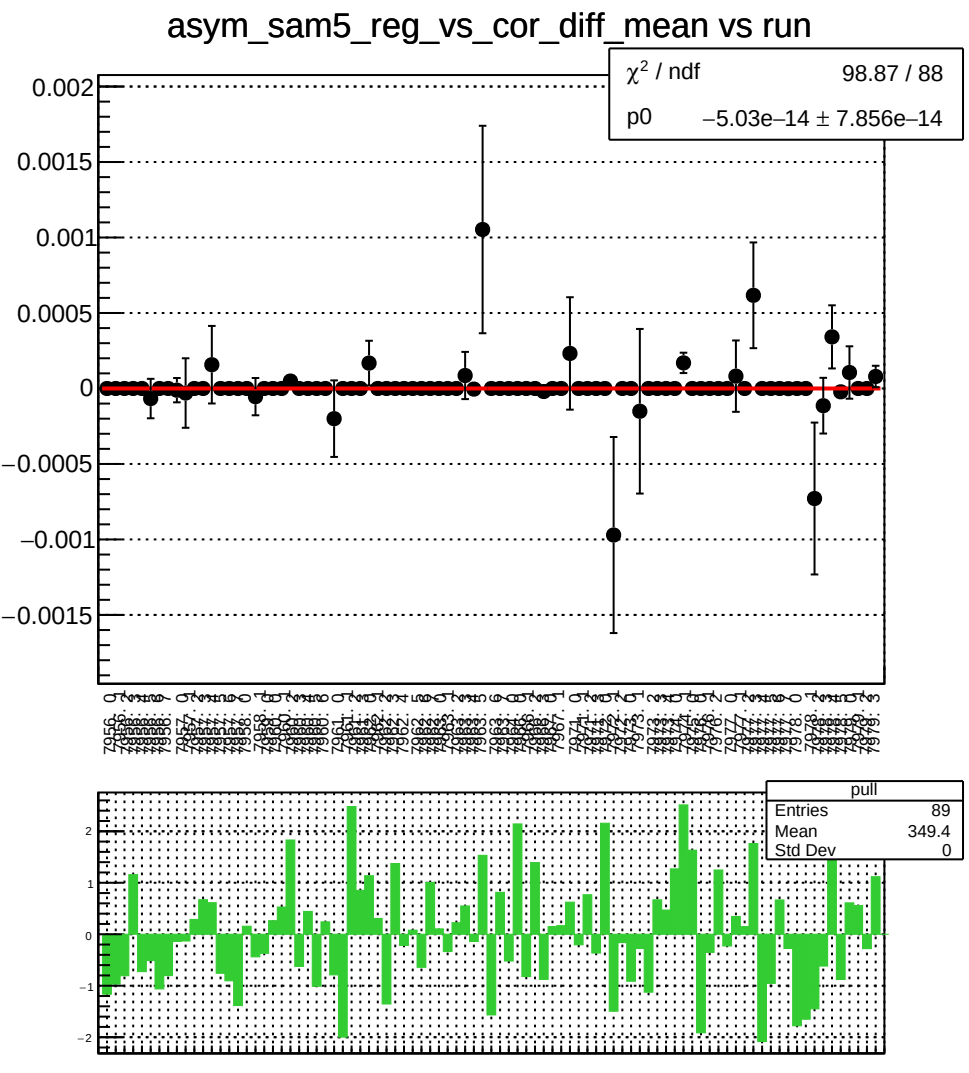

pull1D
Entries 89
Mean 0.01152
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

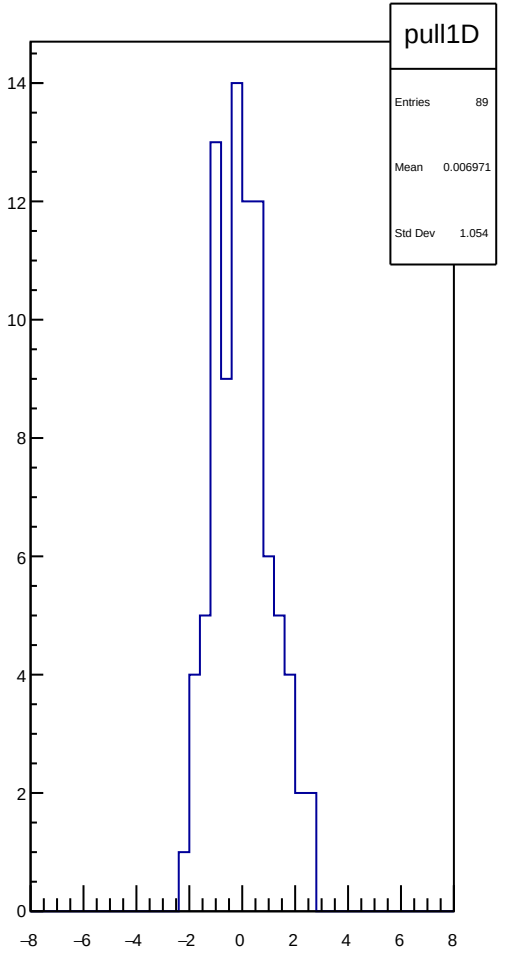

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.549e+04 / 88
p0 885.4 ± 0.6646
1200
1100
1000
900
800

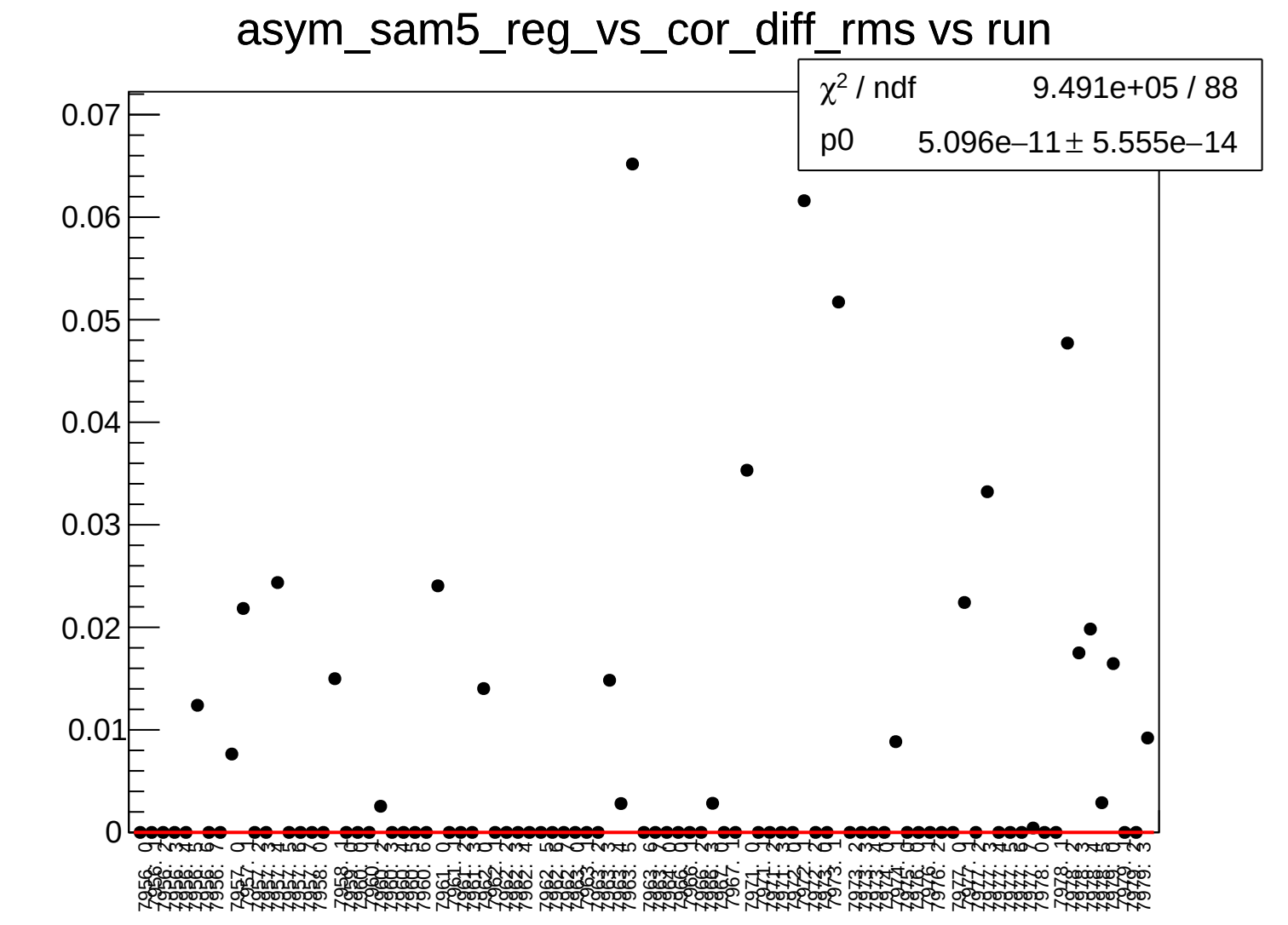

asym_sam5_mean vs run
χ² / ndf 96.17 / 88
p0 1187 ± 910.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −357.6
Std Dev 0
2
1
0
−1
−2
−3

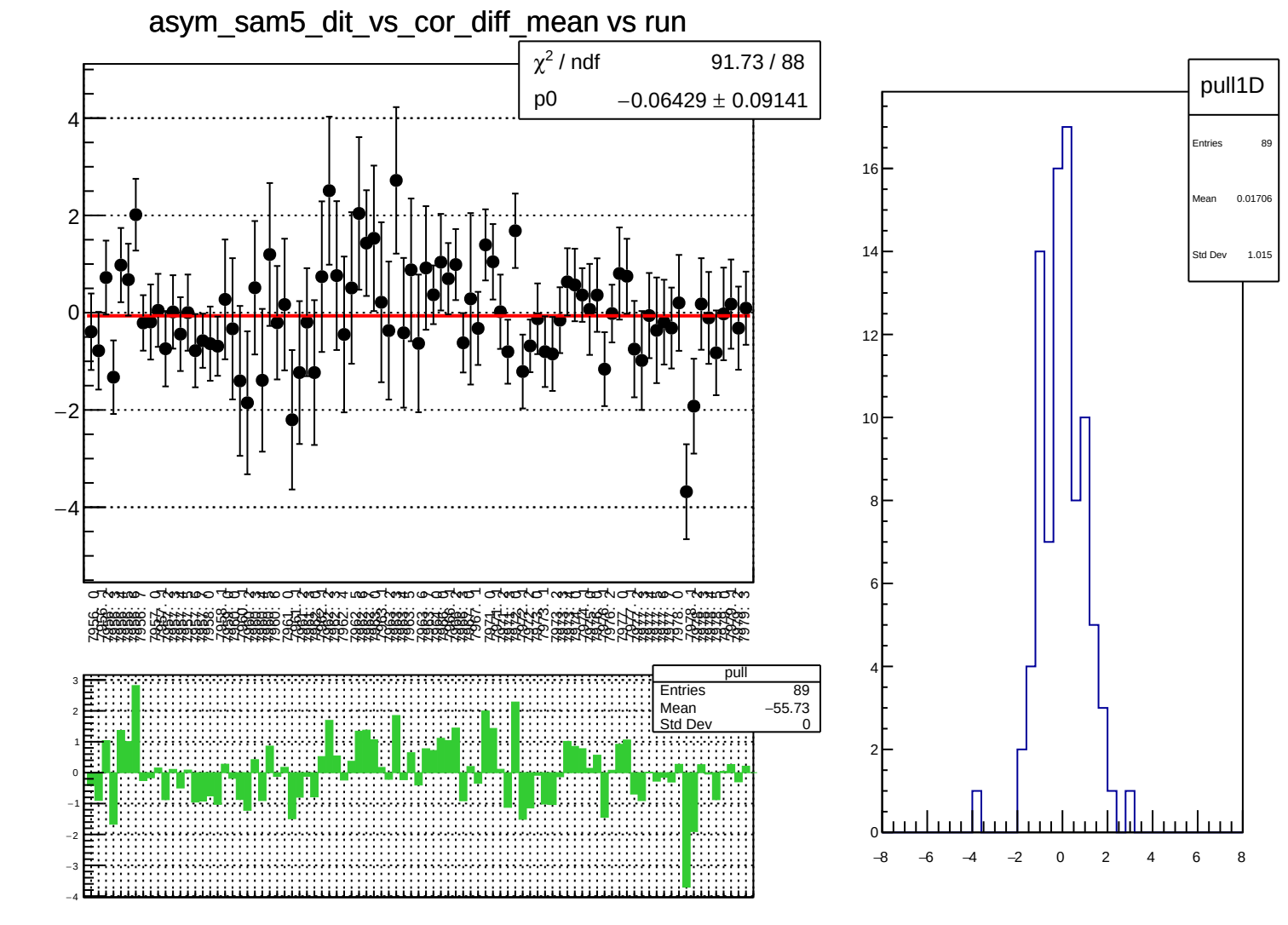

pull1D
Entries 89
Mean −0.01187
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

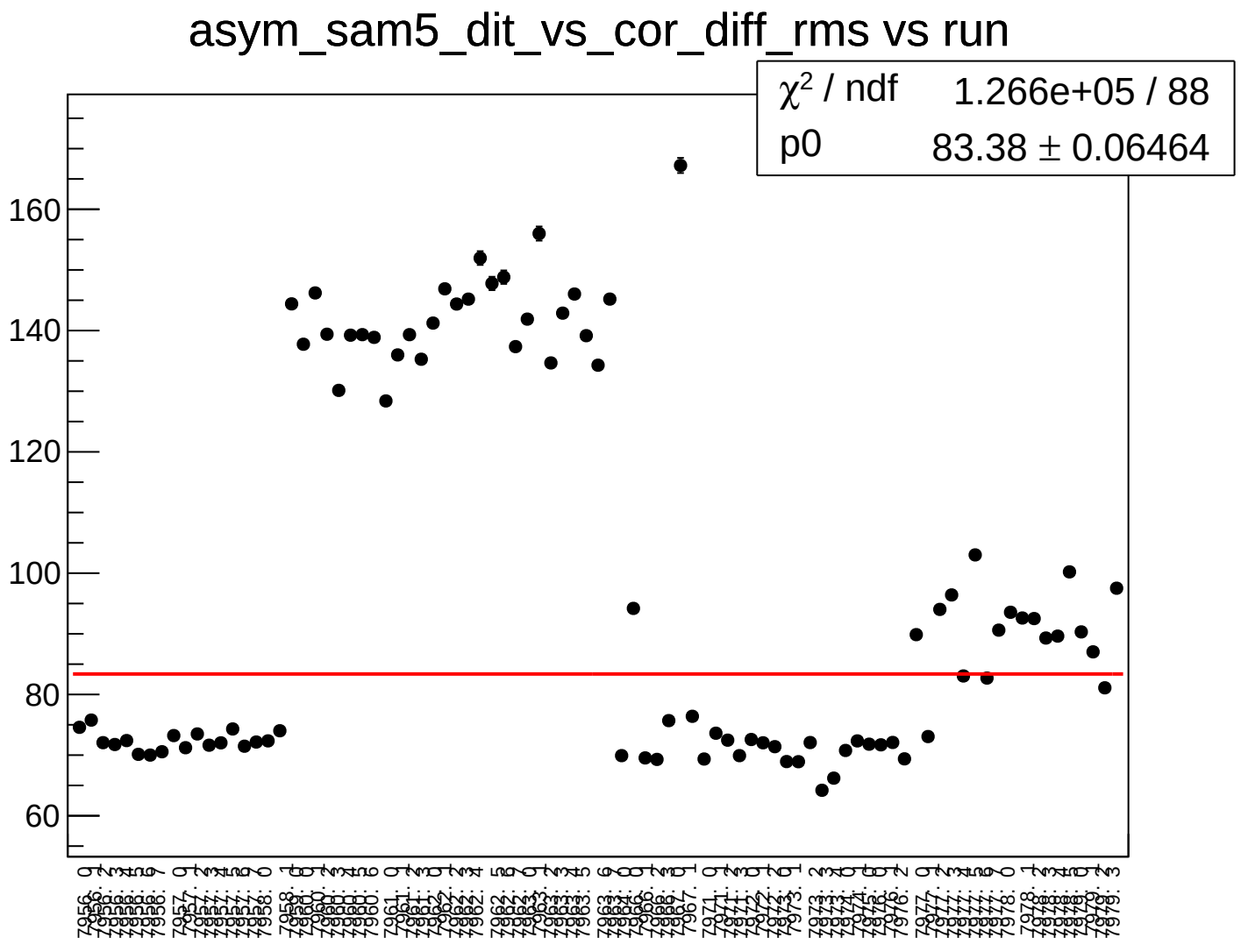

asym_sam5_rms vs run
χ² / ndf 1.676e+04 / 88
p0 857.8 ± 0.6441
1200
1100
1000
900
800
700

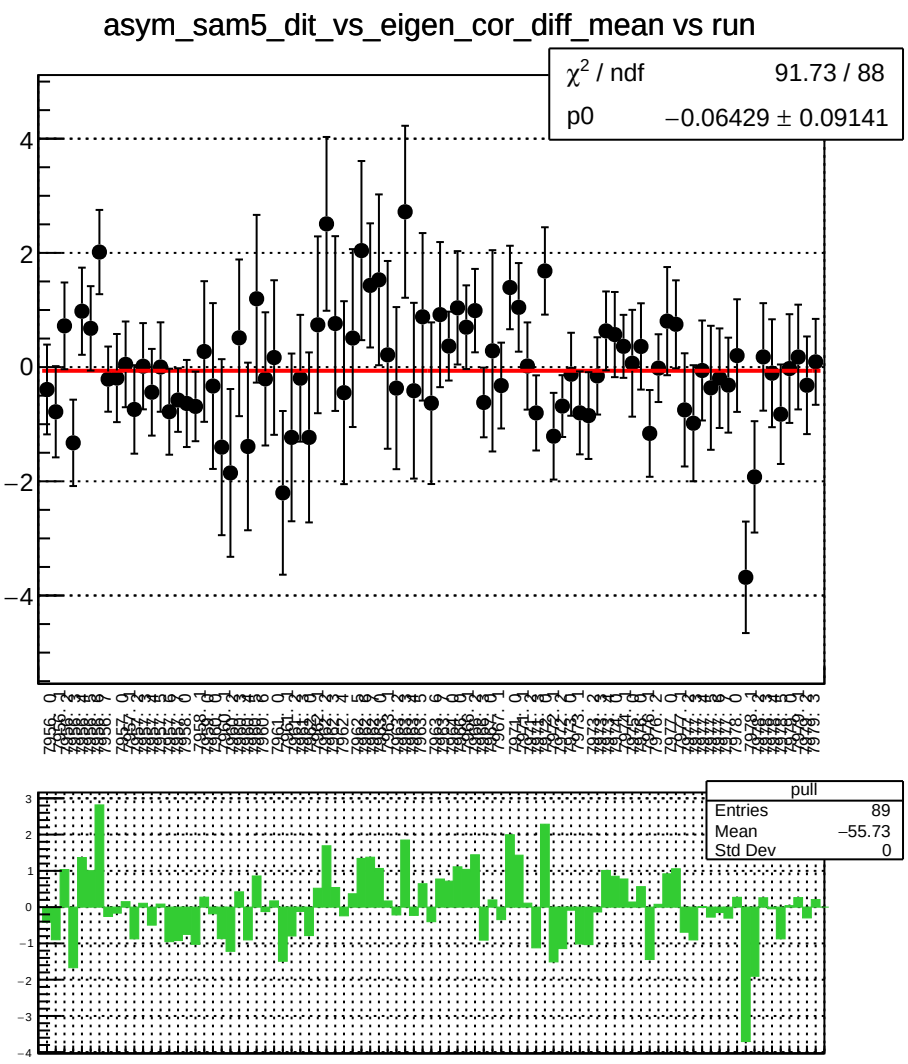

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 98.87 / 88
p0 −5.03e−14 ± 7.856e−14
pull
Entries 89
Mean 349.4
Std Dev 0

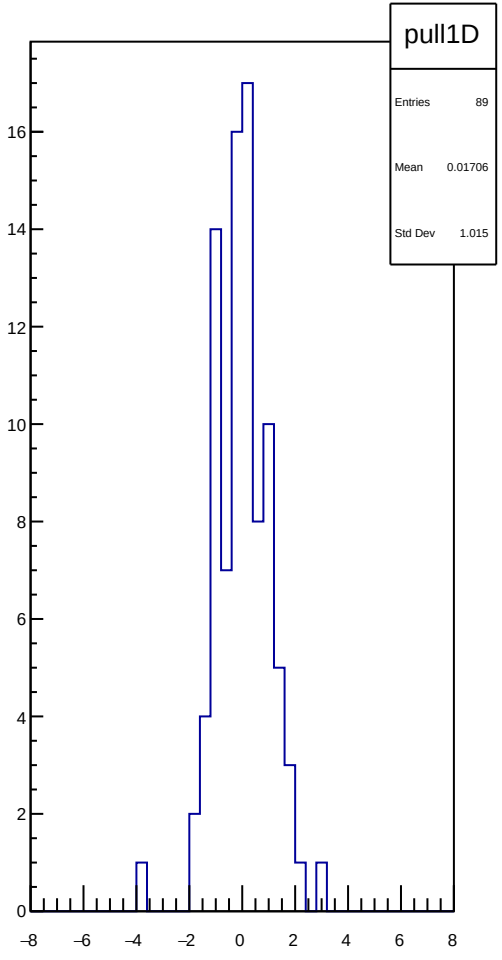

pull1D
Entries 89
Mean 0.006971
Std Dev 1.054

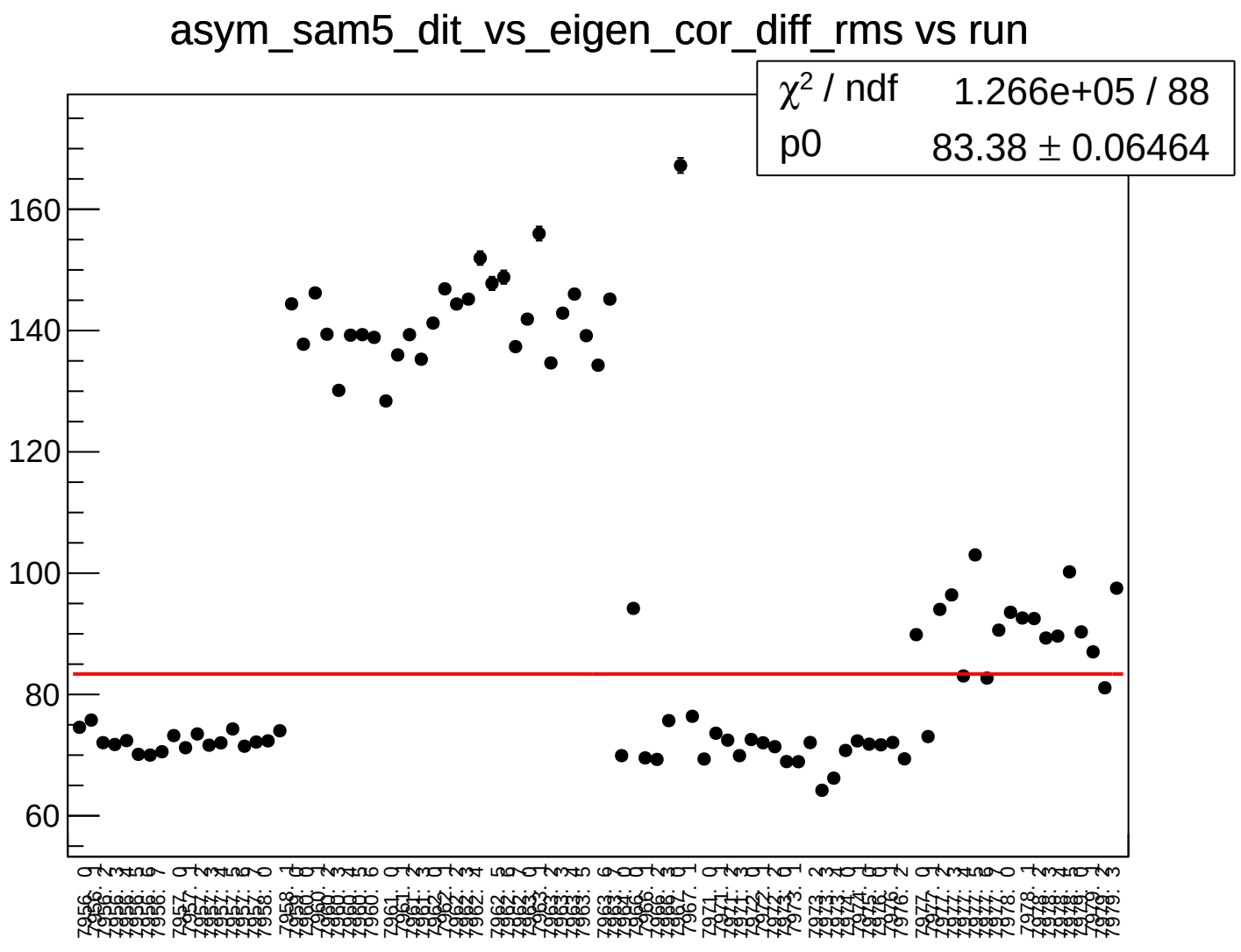

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 9.491e+05 / 88
p0 5.096e−11 ± 5.555e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

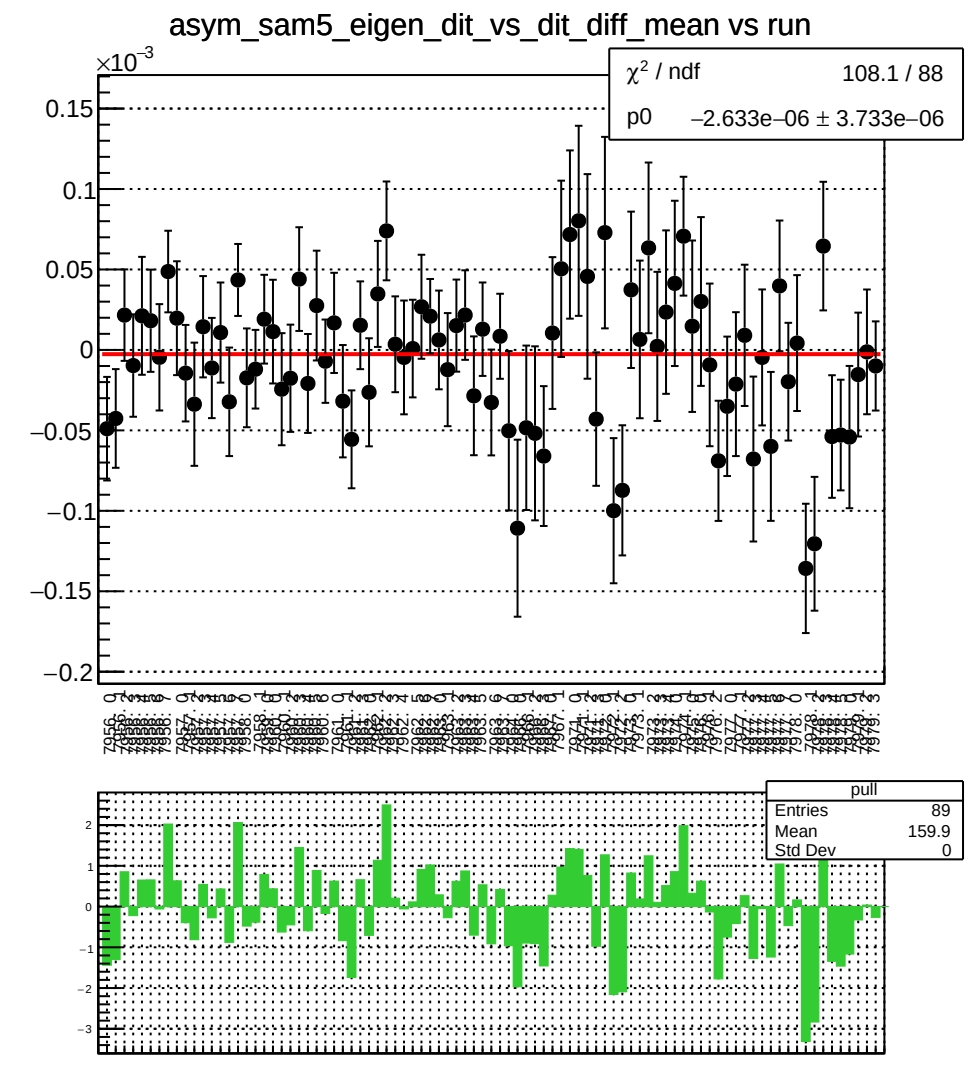

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 91.73 / 88
p0 −0.06429 ± 0.09141
pull
Entries 89
Mean −55.73
Std Dev 0
pull1D
Entries 89
Mean 0.01706
Std Dev 1.015

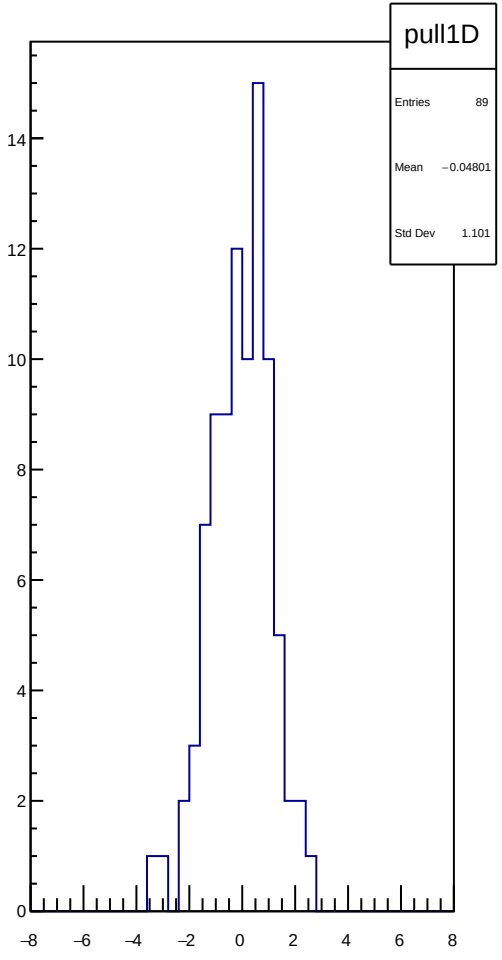

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 1.266e+05 / 88
p0 83.38 ± 0.06464
160
140
120
100
80
60

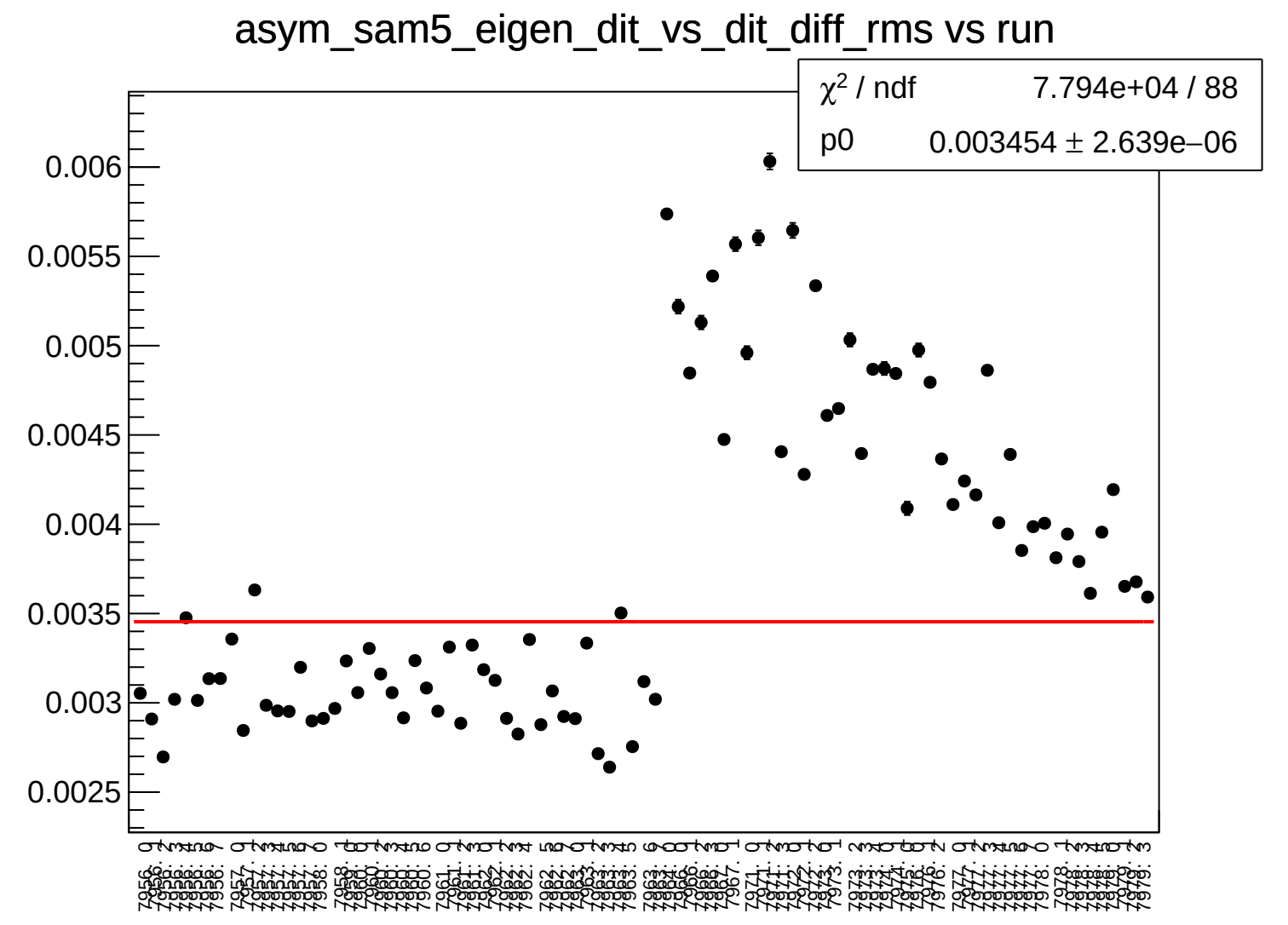

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.73 / 88
p0 −0.06429 ± 0.09141
pull
Entries 89
Mean −55.73
Std Dev 0

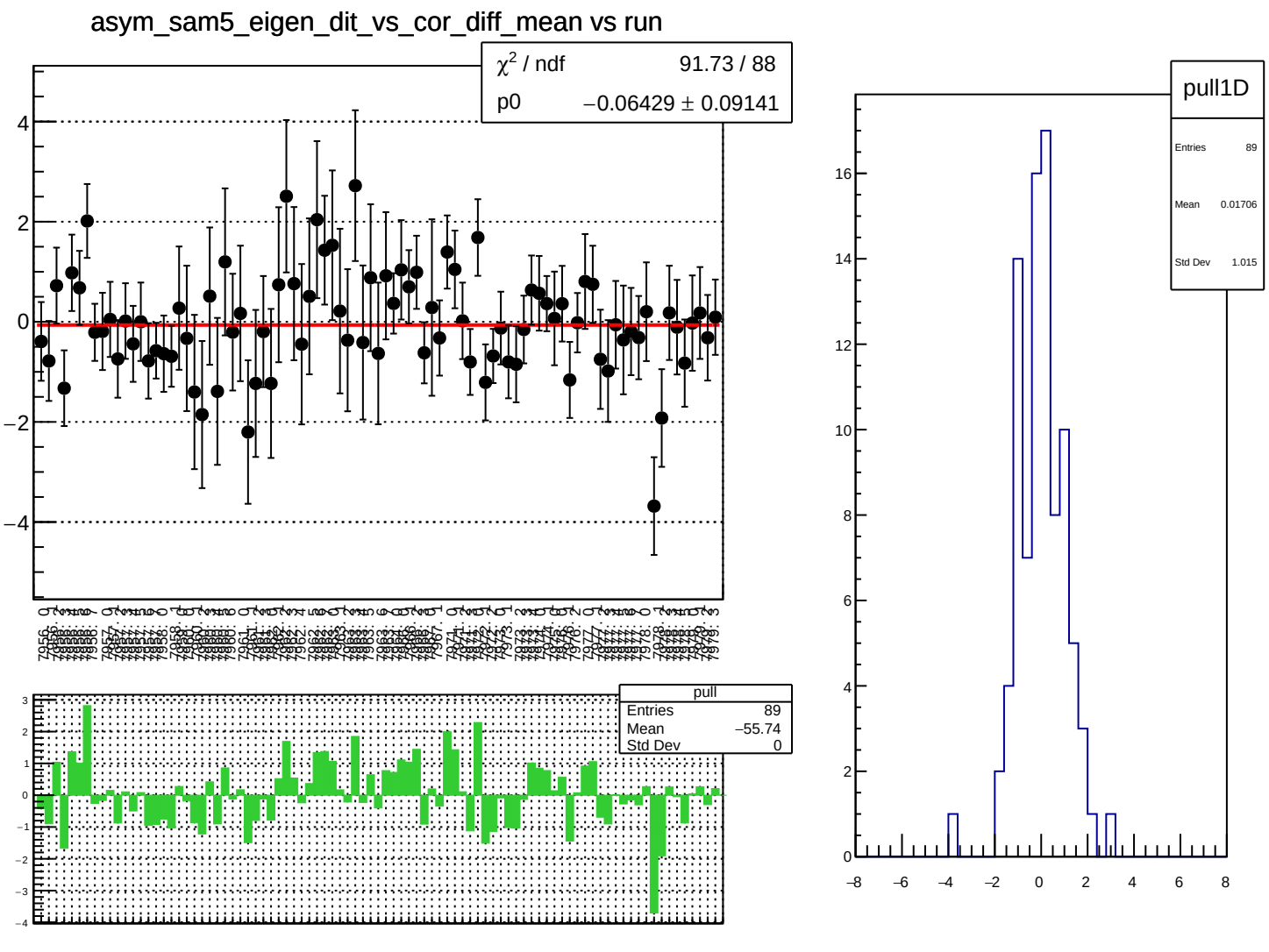

pull1D
Entries 89
Mean 0.01706
Std Dev 1.015

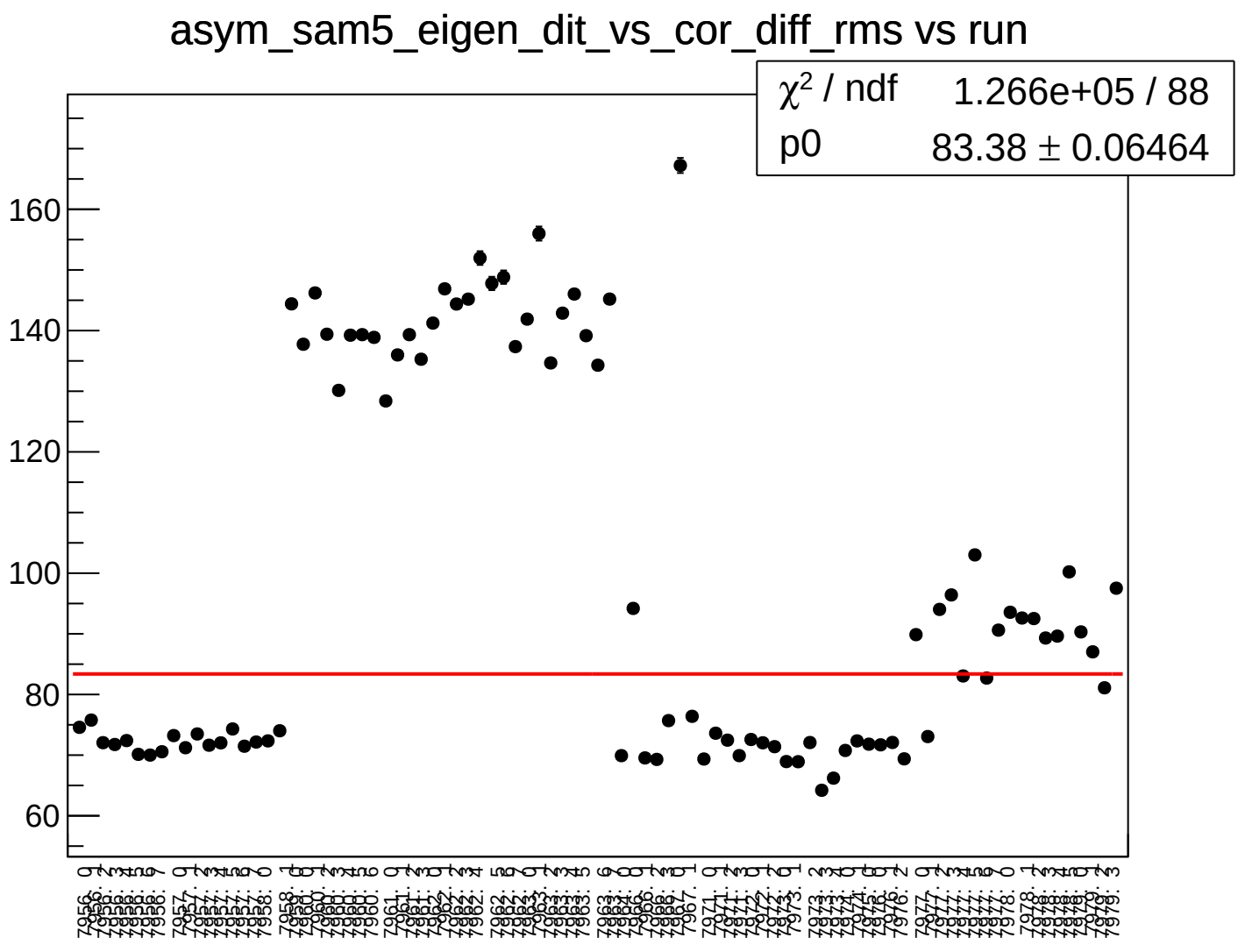

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.266e+05 / 88
p0 83.38 ± 0.06464
160
140
120
100
80
60

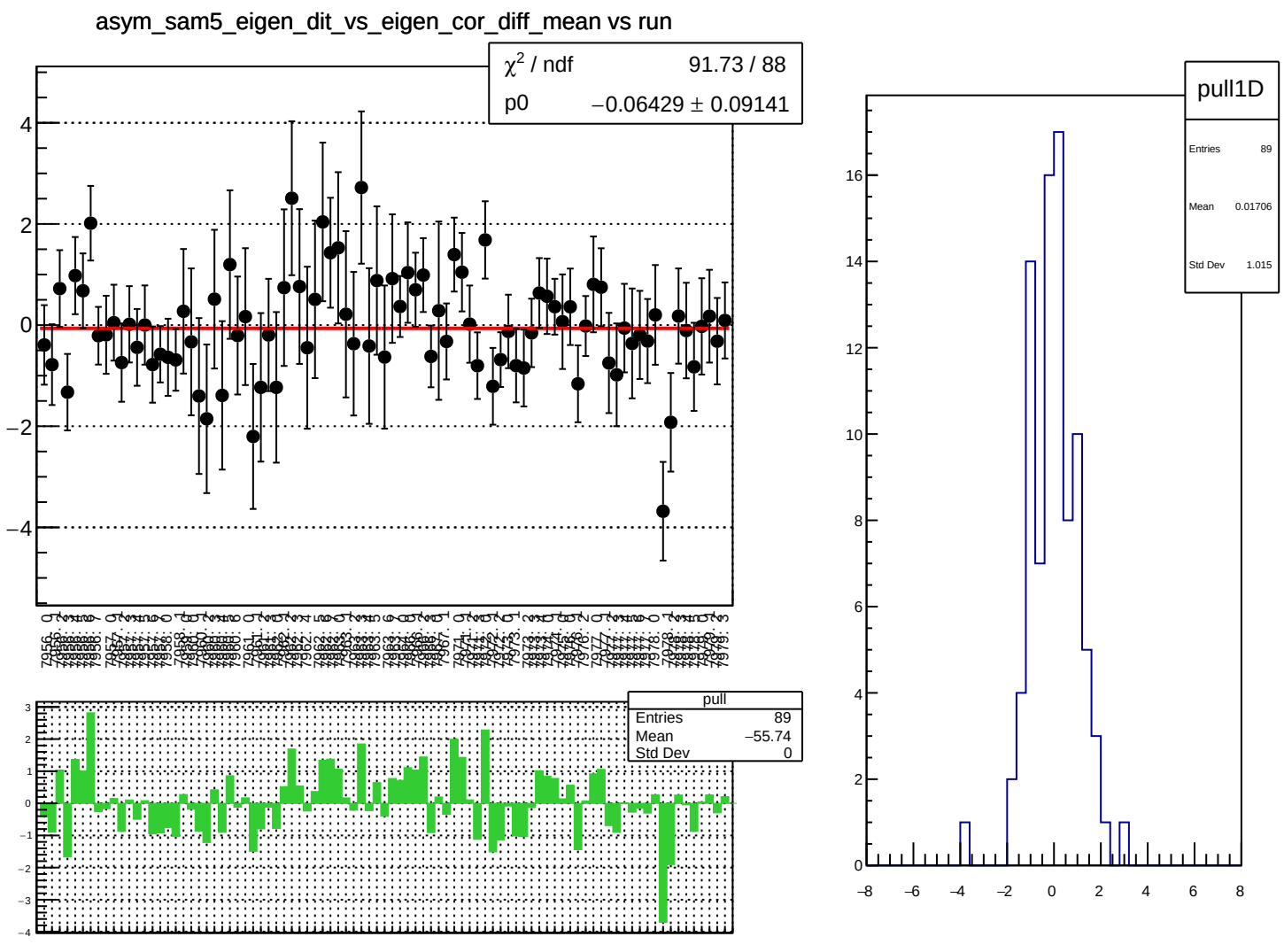

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.1 / 88
p0 −2.633e−06 ± 3.733e−06
pull
Entries 89
Mean 159.9
Std Dev 0

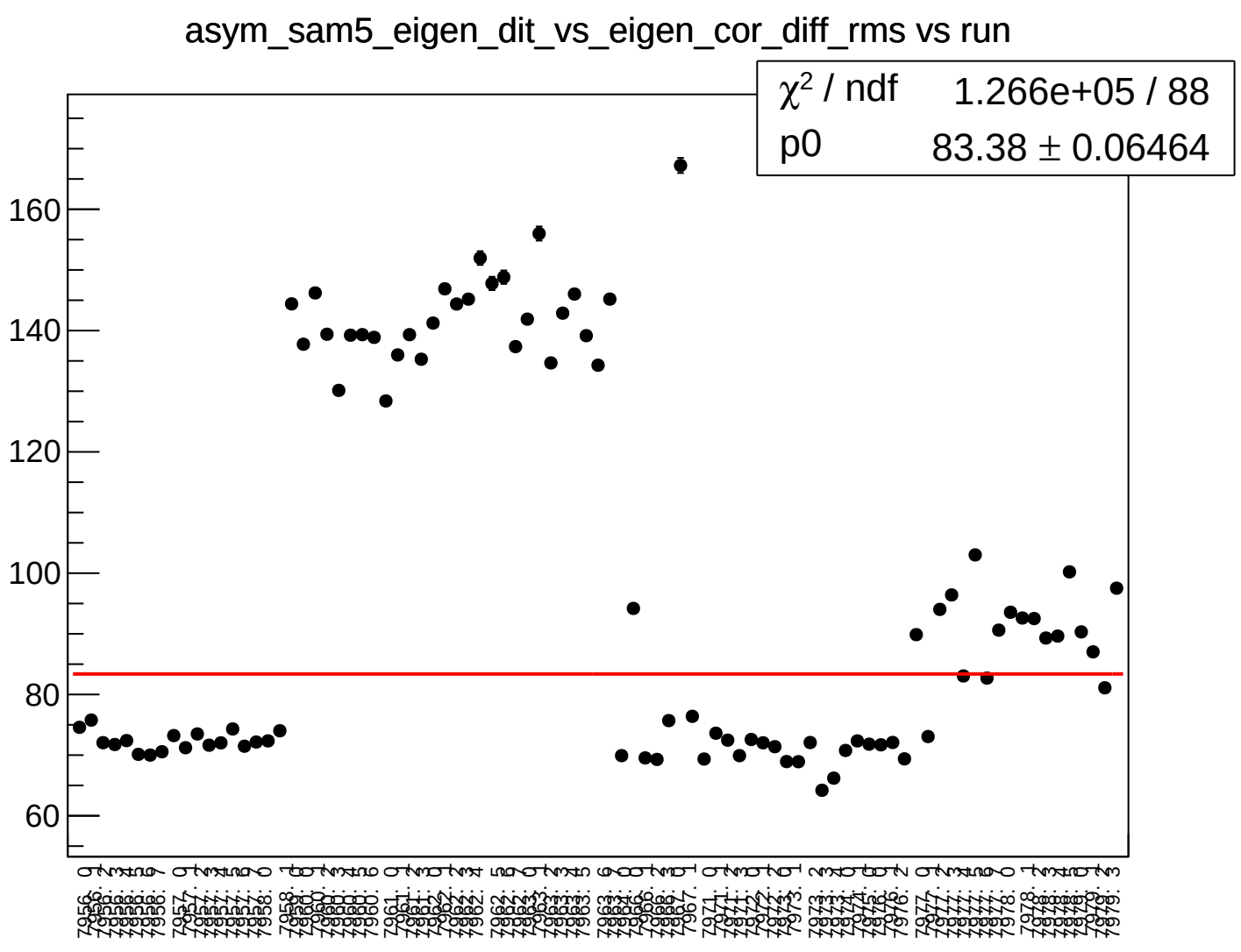

pull1D
Entries 89
Mean −0.04801
Std Dev 1.101

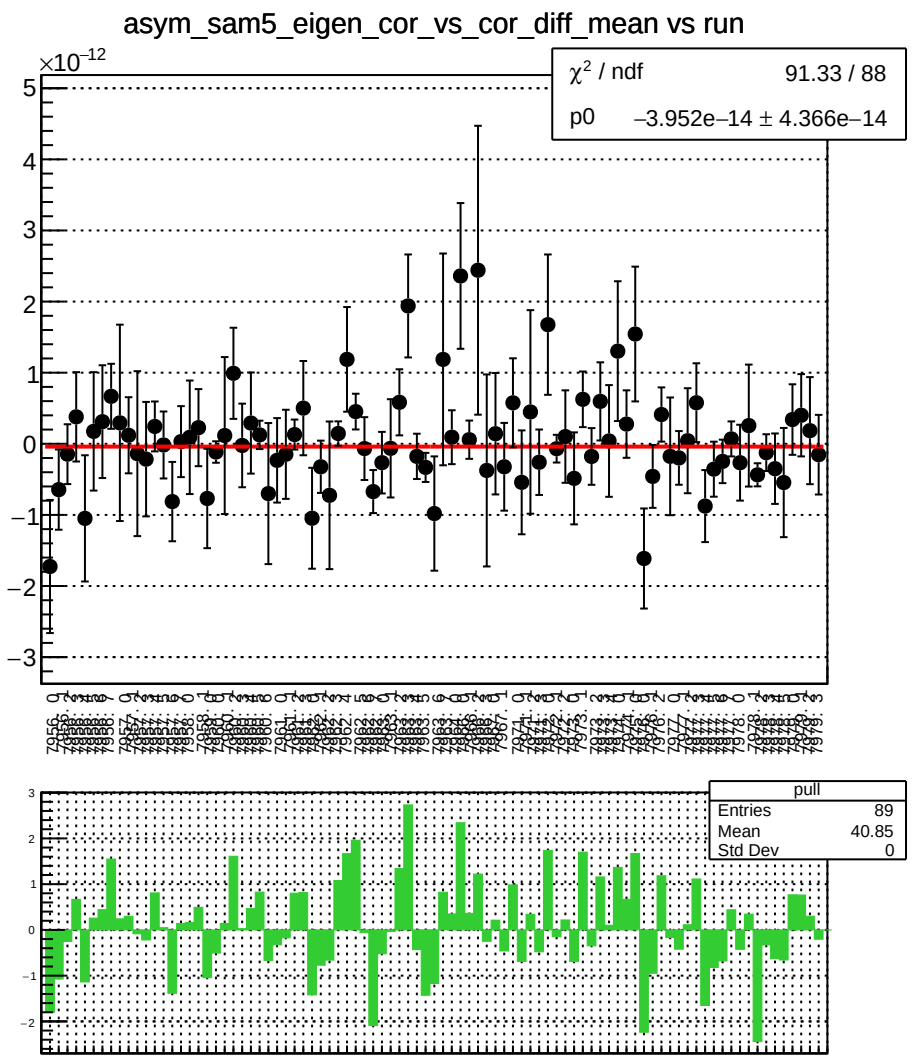

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.794e+04 / 88
p0 0.003454 ± 2.639e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

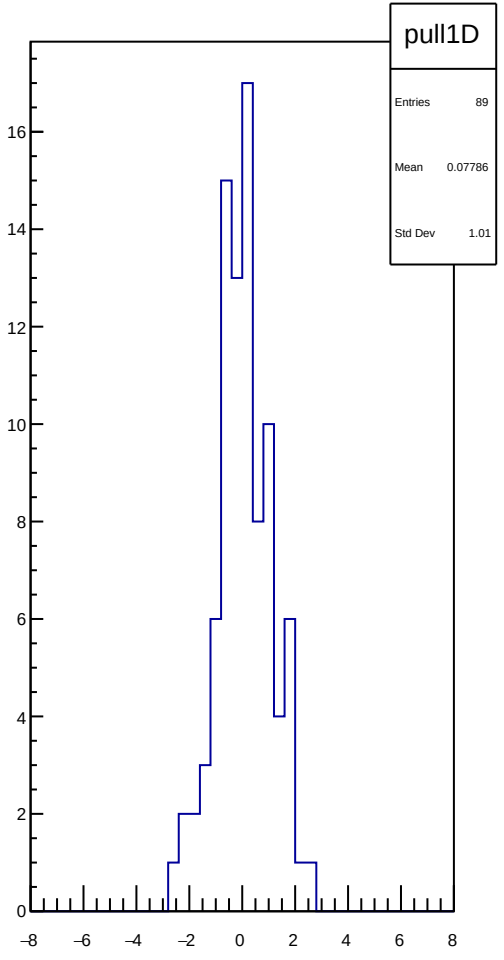

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.73 / 88
p0 −0.06429 ± 0.09141
pull
Entries 89
Mean −55.74
Std Dev 0
pull1D
Entries 89
Mean 0.01706
Std Dev 1.015

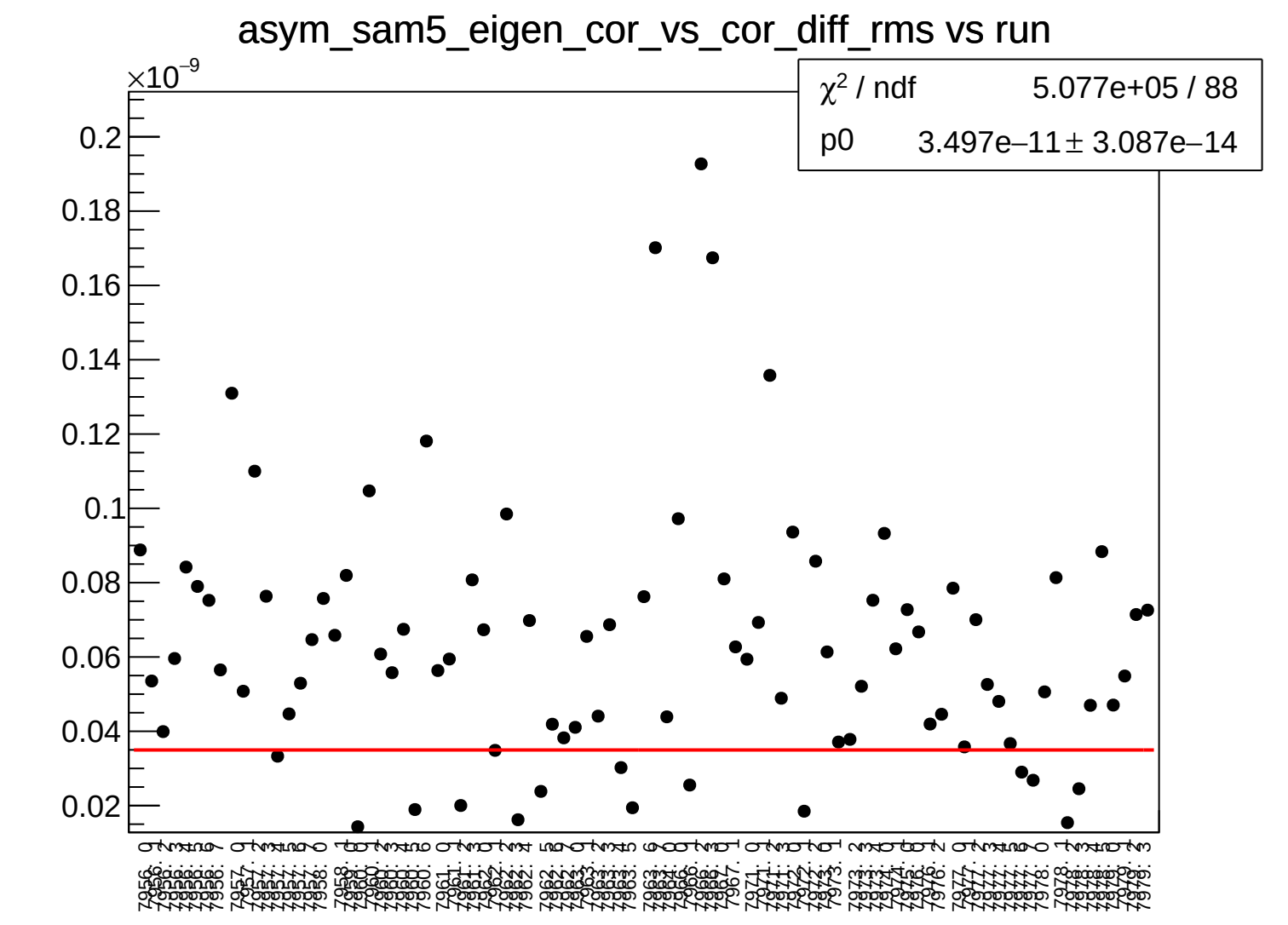

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.266e+05 / 88
p0 83.38 ± 0.06464
160
140
120
100
80
60

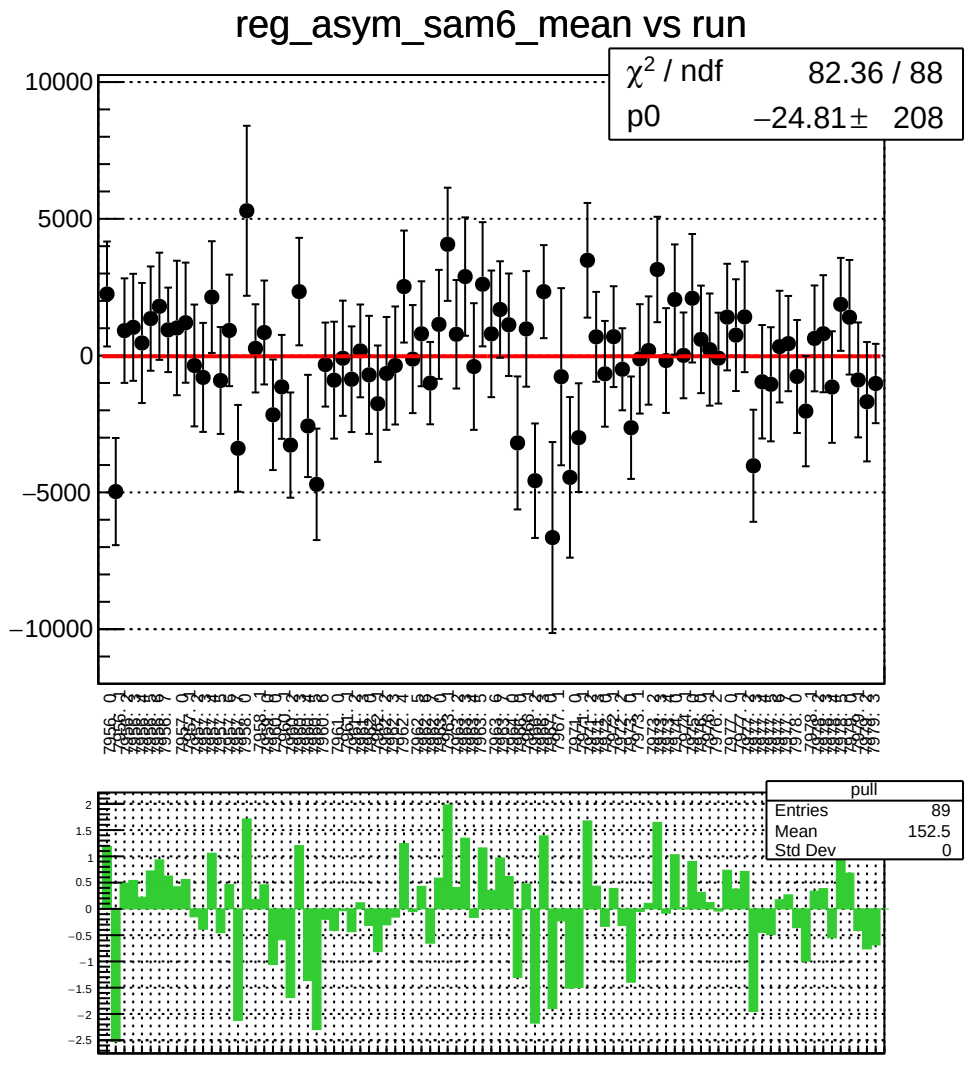

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.73 / 88
p0 −0.06429 ± 0.09141
pull
Entries 89
Mean −55.74
Std Dev 0
pull1D
Entries 89
Mean 0.01706
Std Dev 1.015

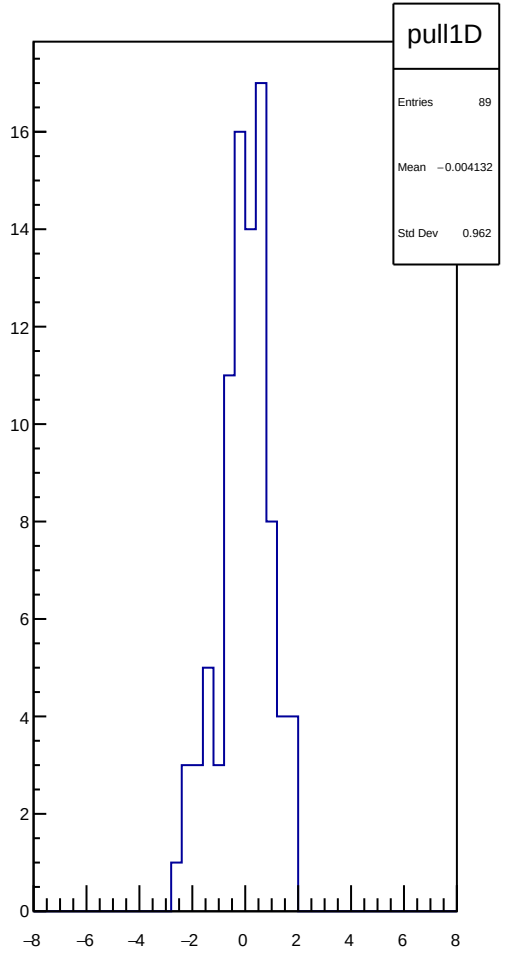

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.266e+05 / 88
p0 83.38 ± 0.06464
160
140
120
100
80
60

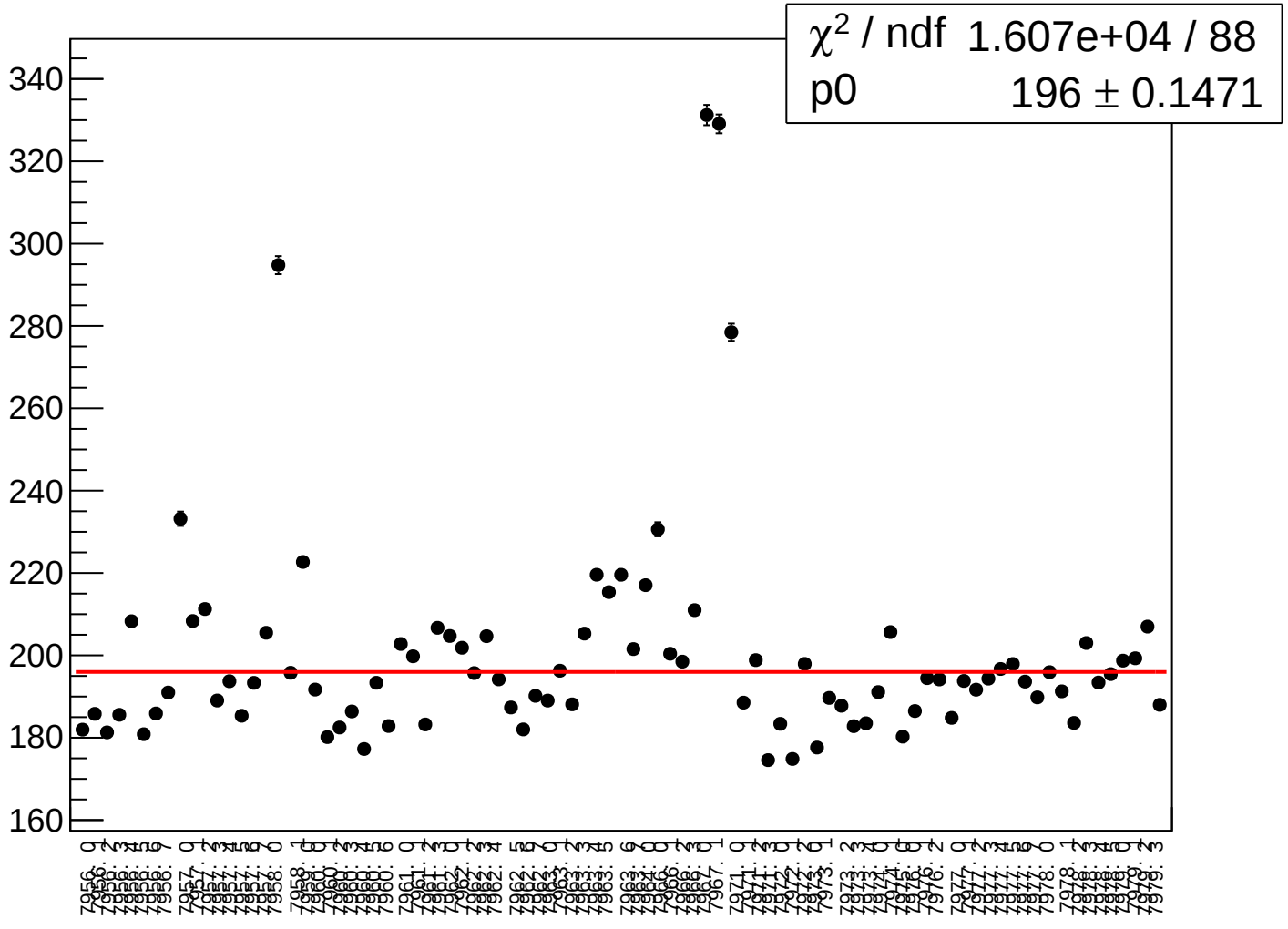

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.33 / 88
p0 −3.952e−14 ± 4.366e−14
pull
Entries 89
Mean 40.85
Std Dev 0

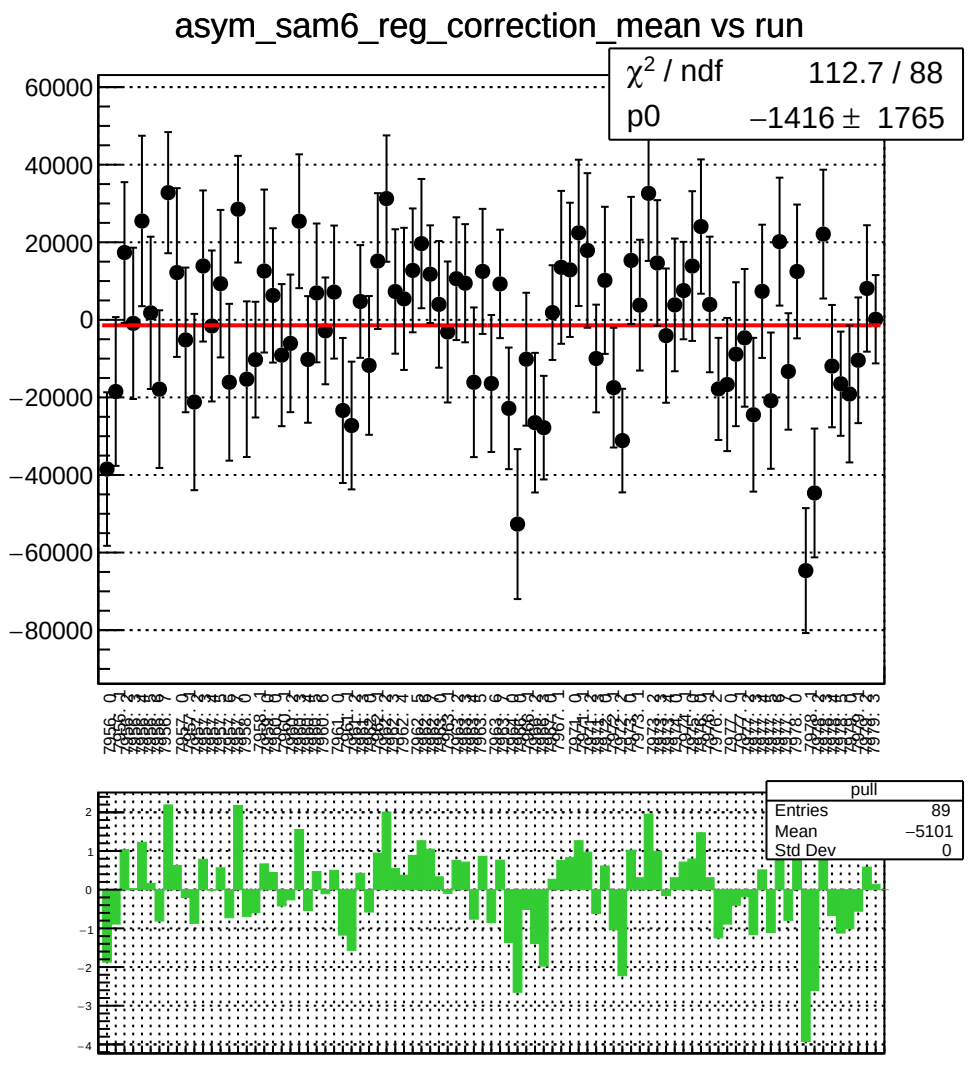

pull1D
Entries 89
Mean 0.07786
Std Dev 1.01

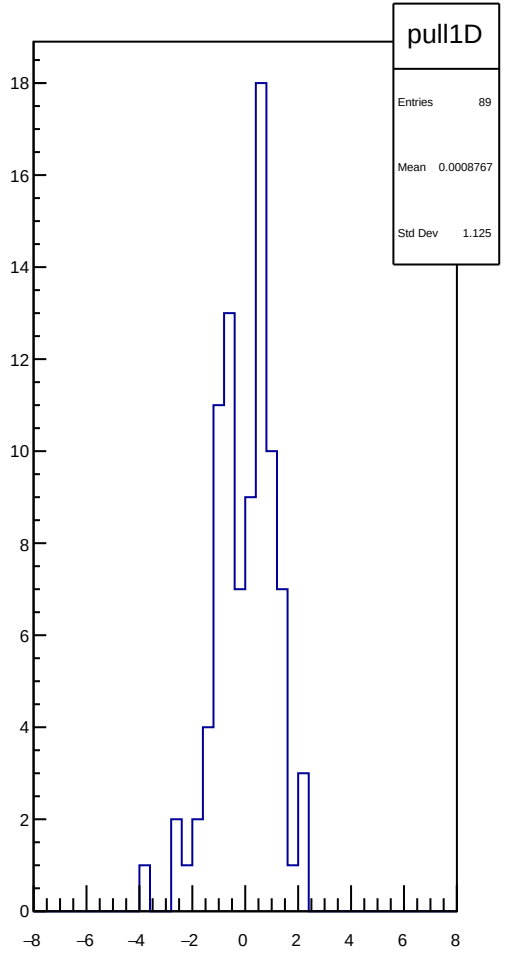

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.077e+05 / 88
p0 3.497e−11 ± 3.087e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

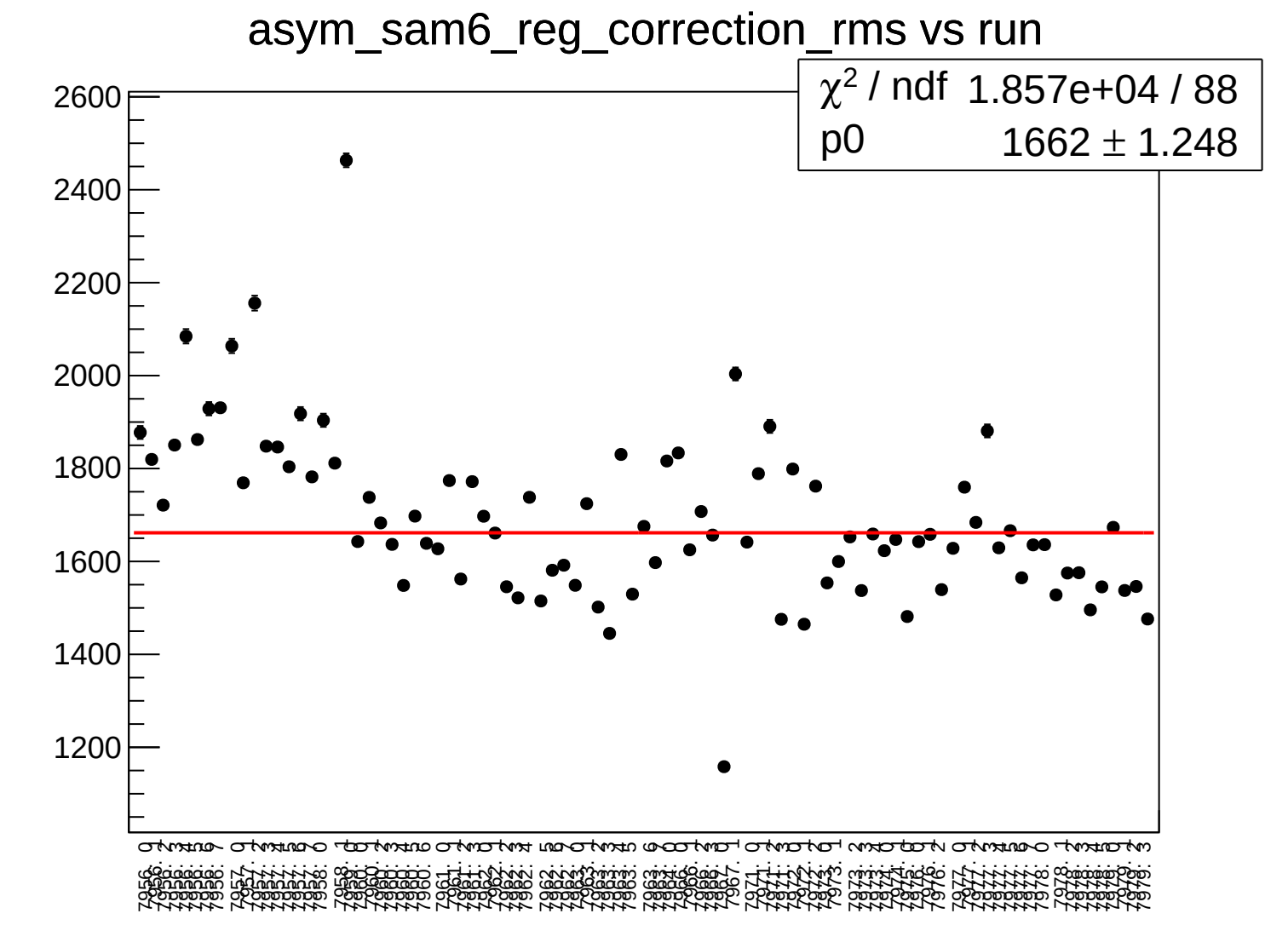

reg_asym_sam6_mean vs run
χ² / ndf 82.36 / 88
p0 −24.81 ± 208
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 152.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

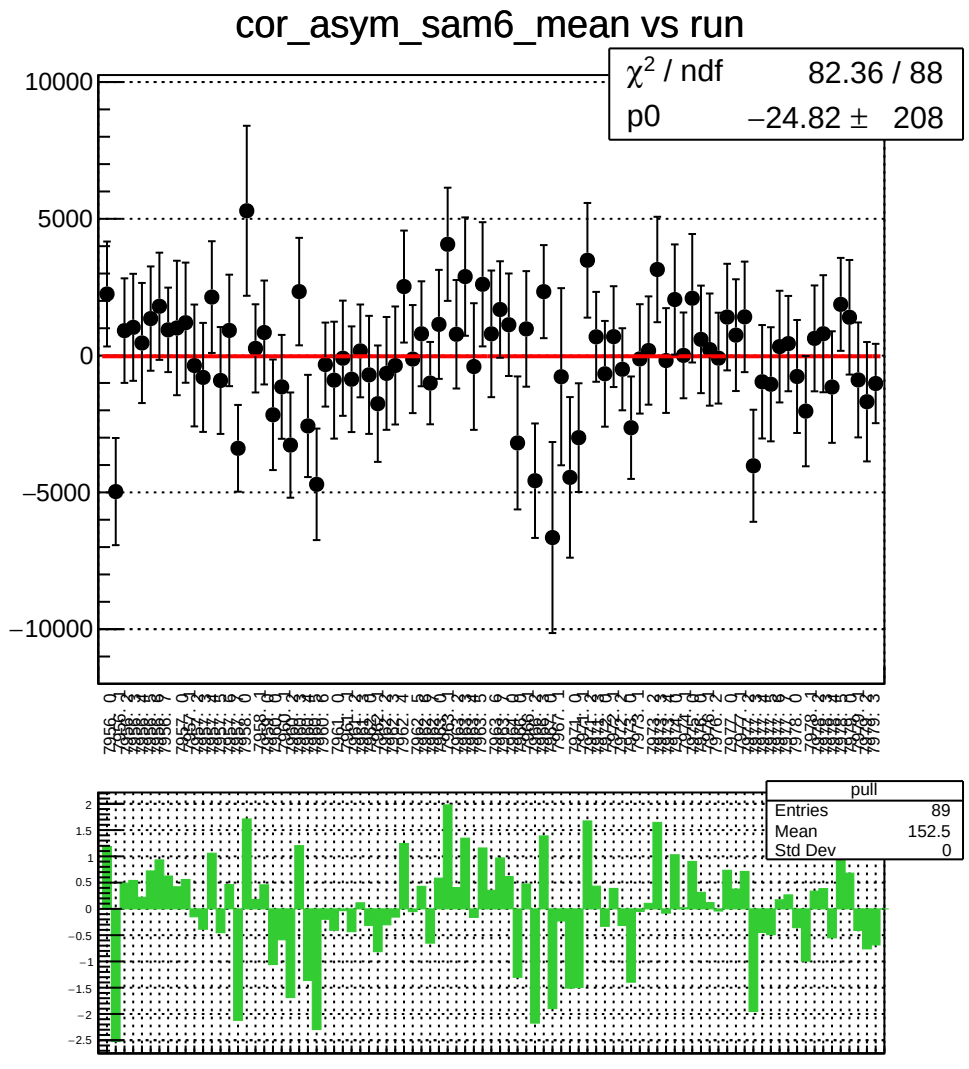

pull1D
Entries 89
Mean −0.004132
Std Dev 0.962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

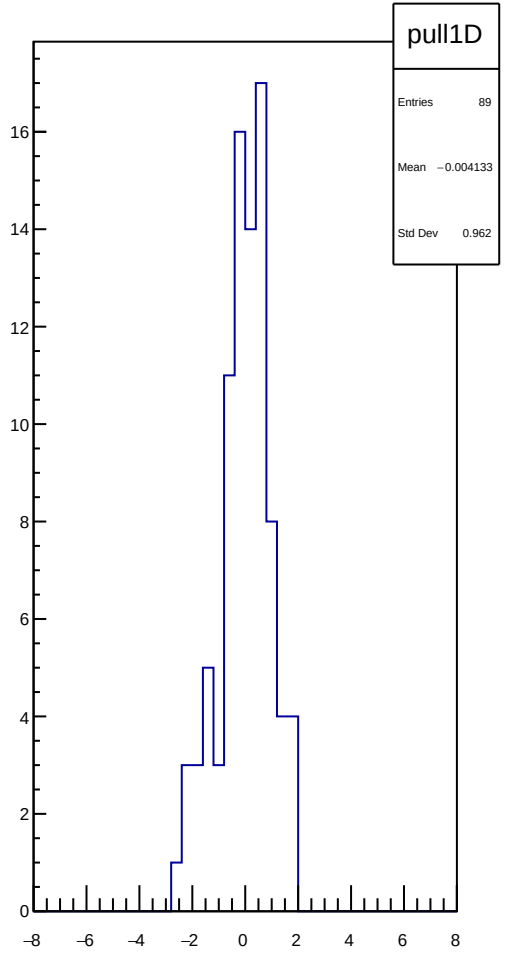

reg_asym_sam6_rms vs run
χ² / ndf 1.607e+04 / 88
p0 196 ± 0.1471
340
320
300
280
260
240
220
200
180
160

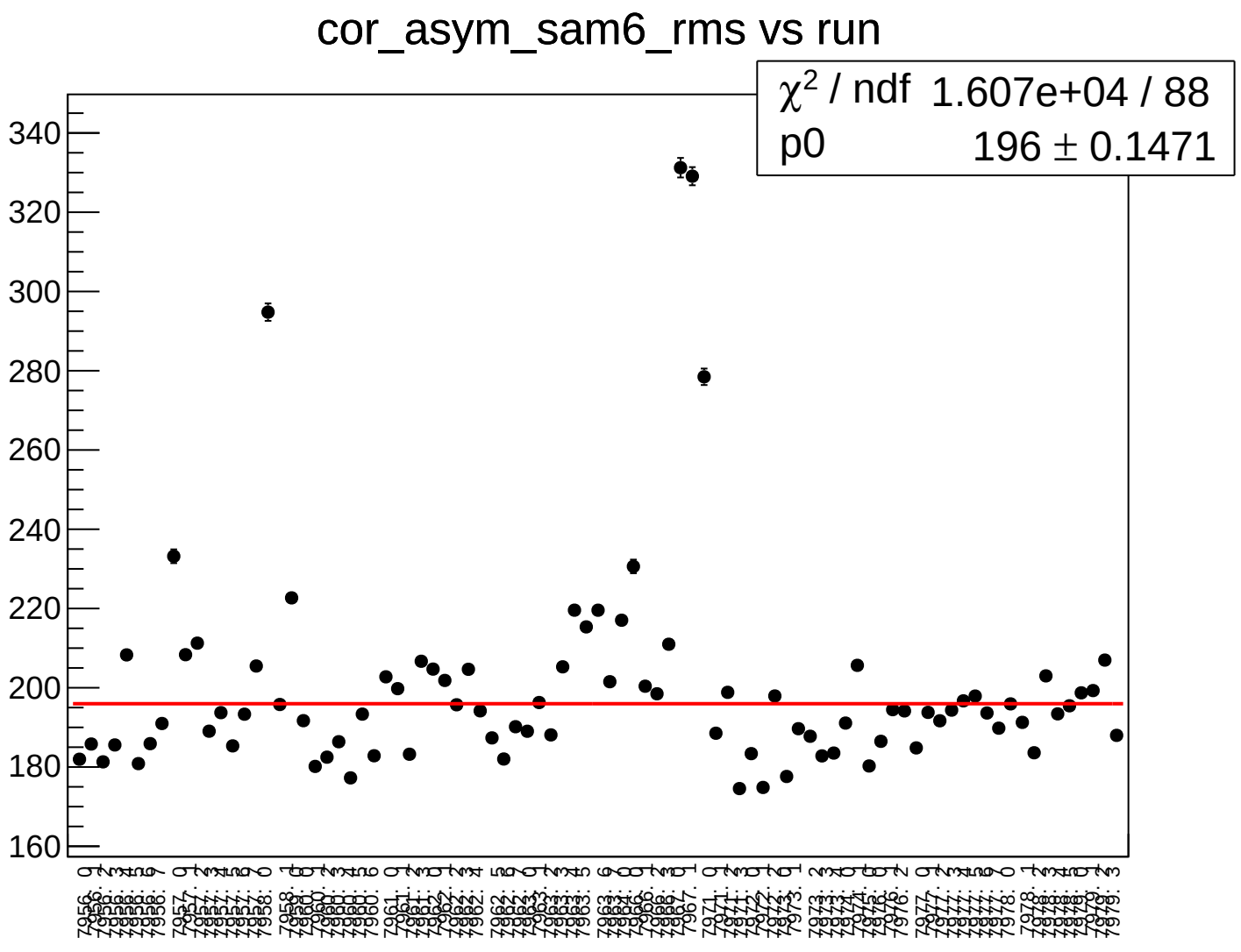

asym_sam6_reg_correction_mean vs run
χ² / ndf 112.7 / 88
p0 −1416 ± 1765
pull
Entries 89
Mean −5101
Std Dev 0

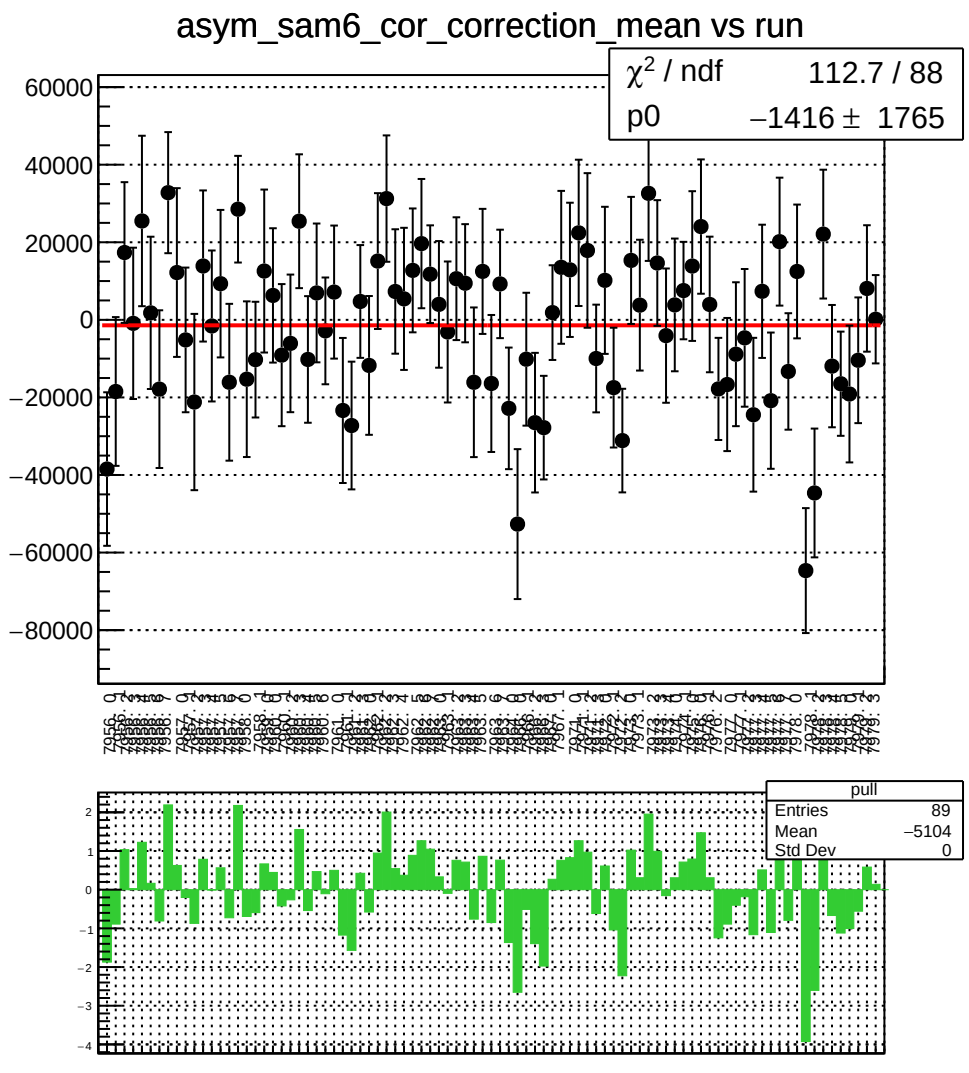

pull1D
Entries 89
Mean 0.0008767
Std Dev 1.125

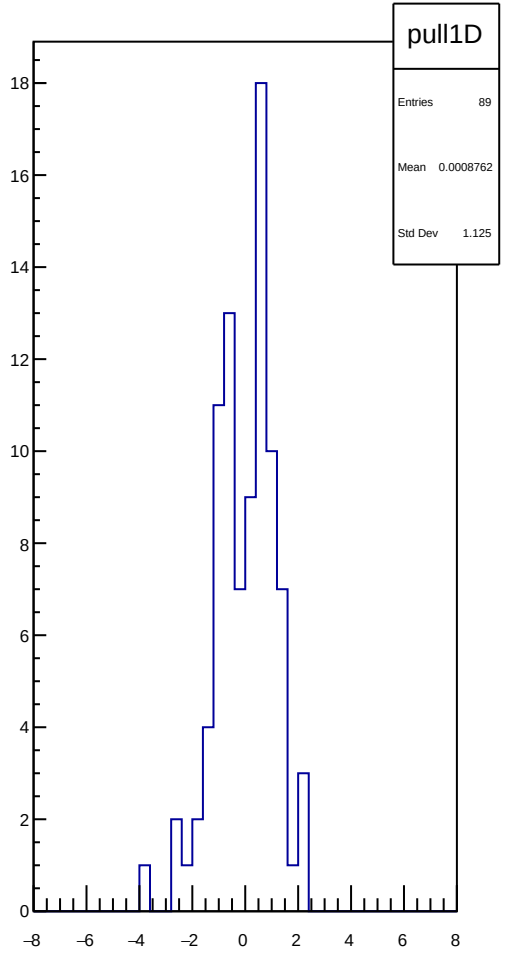

asym_sam6_reg_correction_rms vs run
χ² / ndf 1.857e+04 / 88
p0 1662 ± 1.248
2600
2400
2200
2000
1800
1600
1400
1200

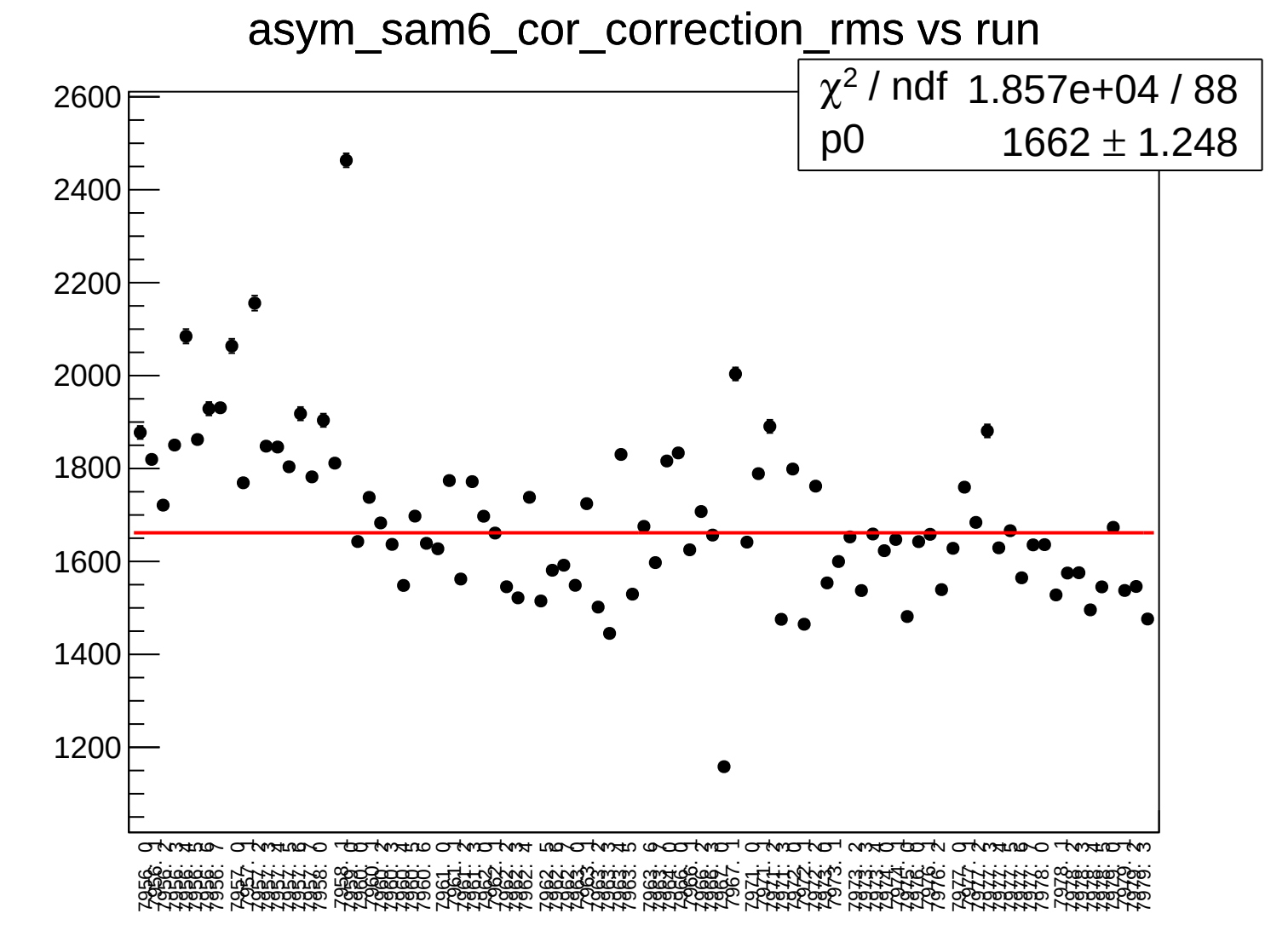

cor_asym_sam6_mean vs run
χ² / ndf 82.36 / 88
p0 −24.82 ± 208
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 152.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

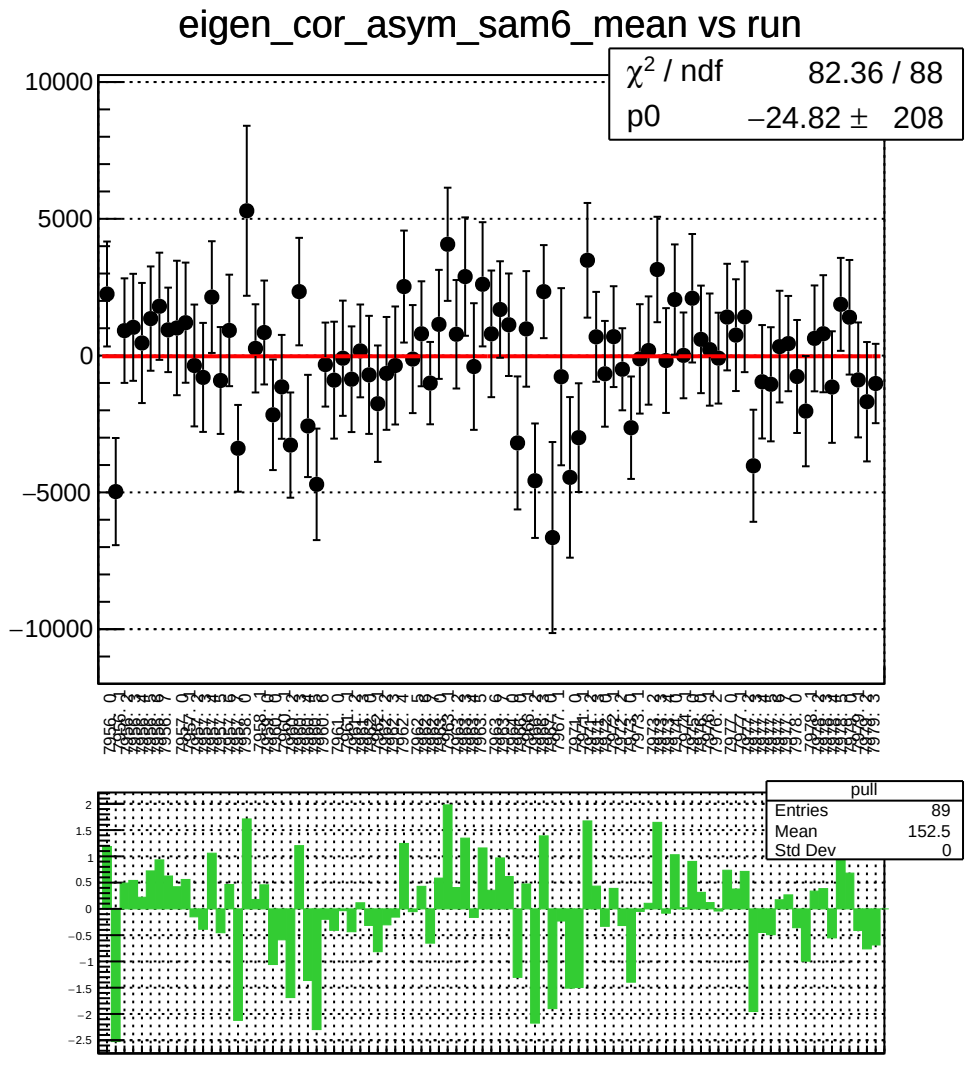

pull1D
Entries 89
Mean −0.004133
Std Dev 0.962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

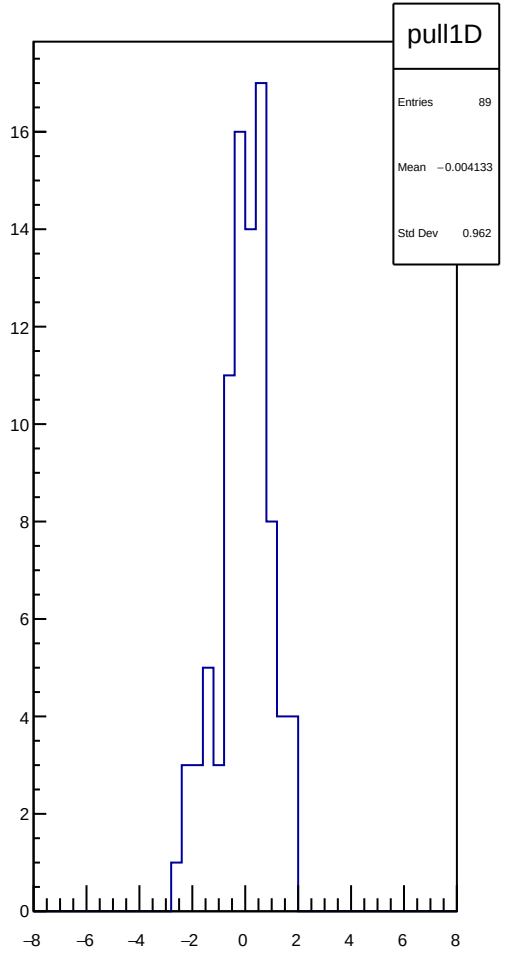

cor_asym_sam6_rms vs run
χ² / ndf 1.607e+04 / 88
p0 196 ± 0.1471
340
320
300
280
260
240
220
200
180
160

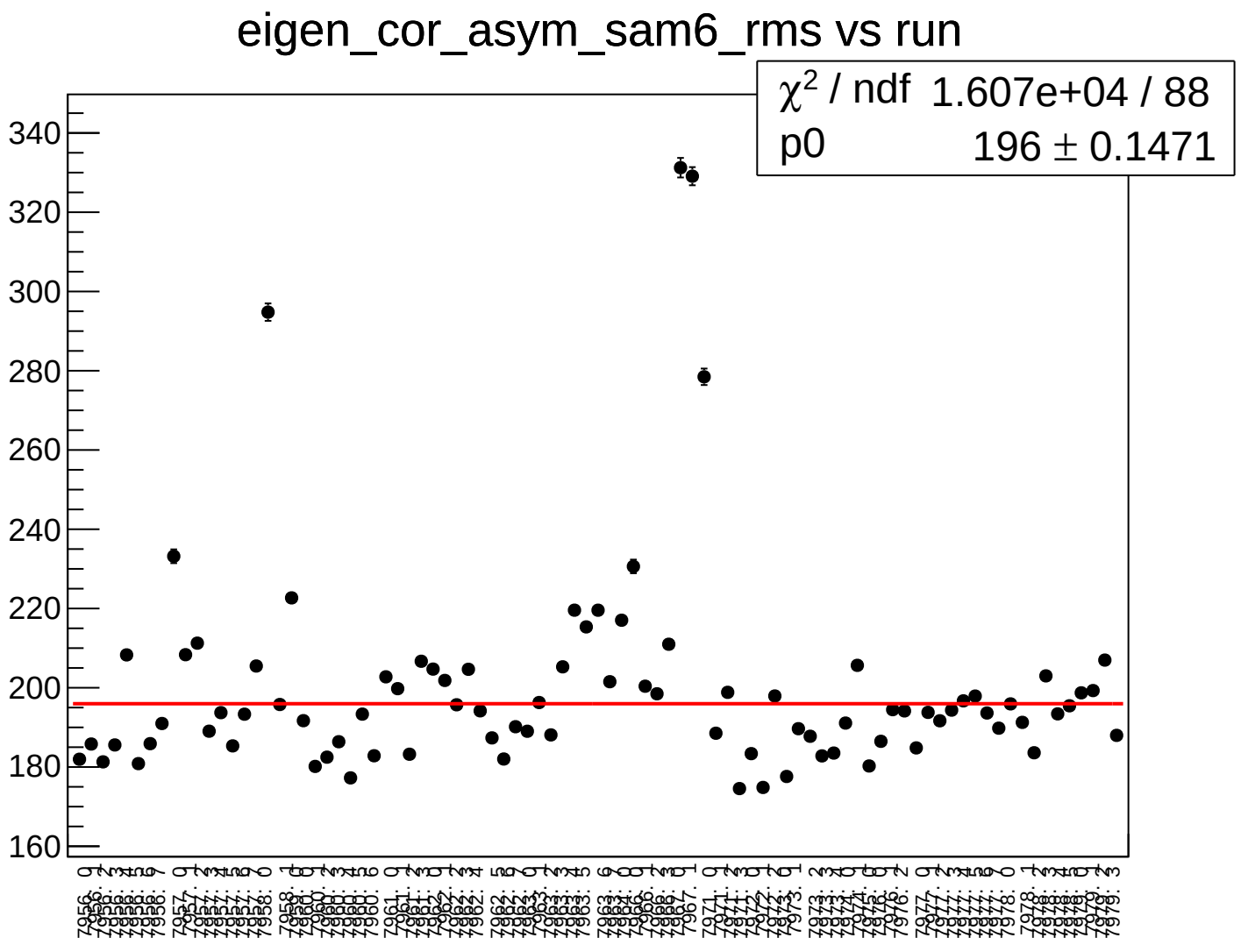

asym_sam6_cor_correction_mean vs run
χ² / ndf 112.7 / 88
p0 −1416 ± 1765
pull
Entries 89
Mean −5104
Std Dev 0

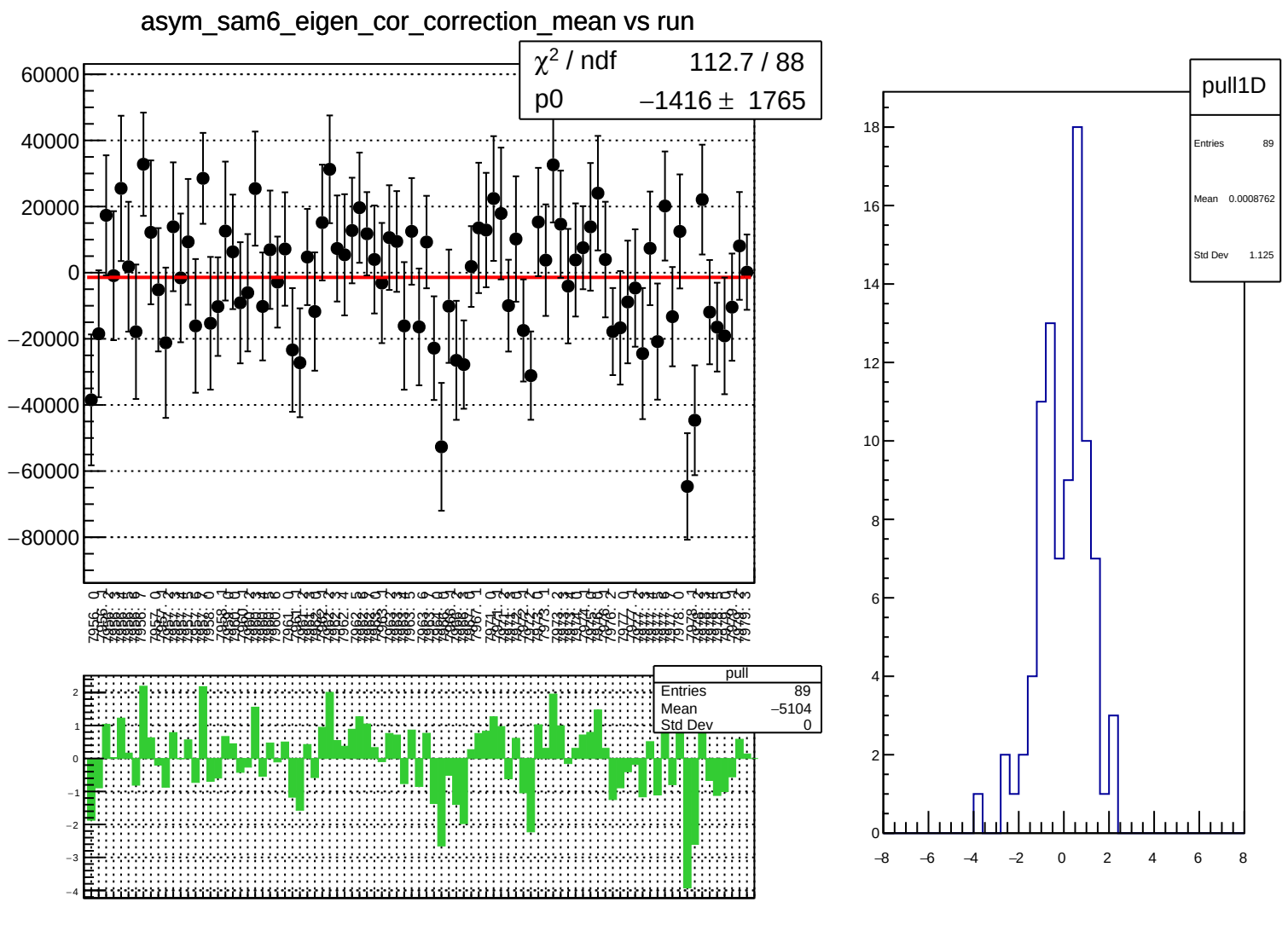

pull1D
Entries 89
Mean 0.0008762
Std Dev 1.125

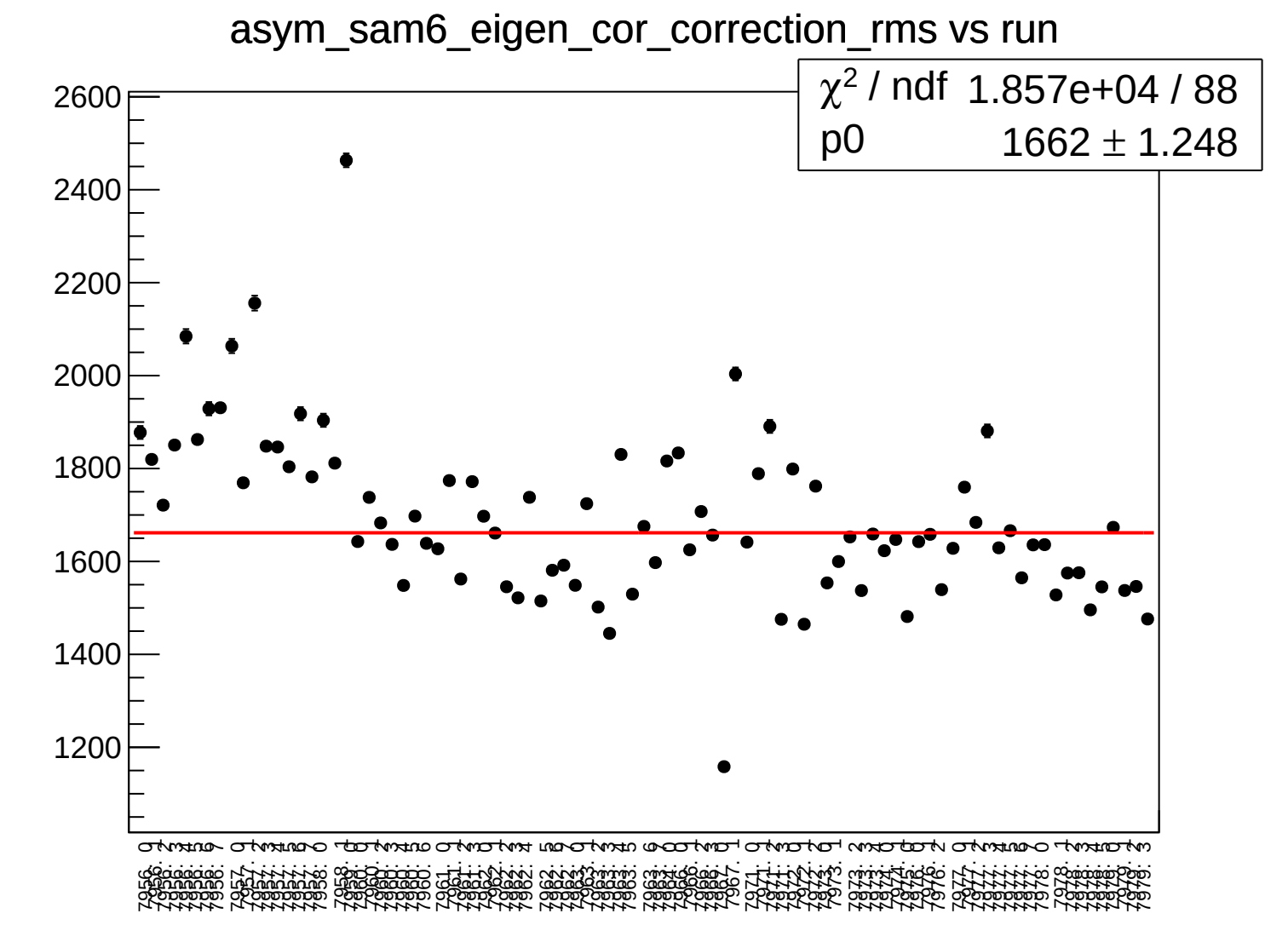

asym_sam6_cor_correction_rms vs run
χ² / ndf 1.857e+04 / 88
p0 1662 ± 1.248
2600
2400
2200
2000
1800
1600
1400
1200

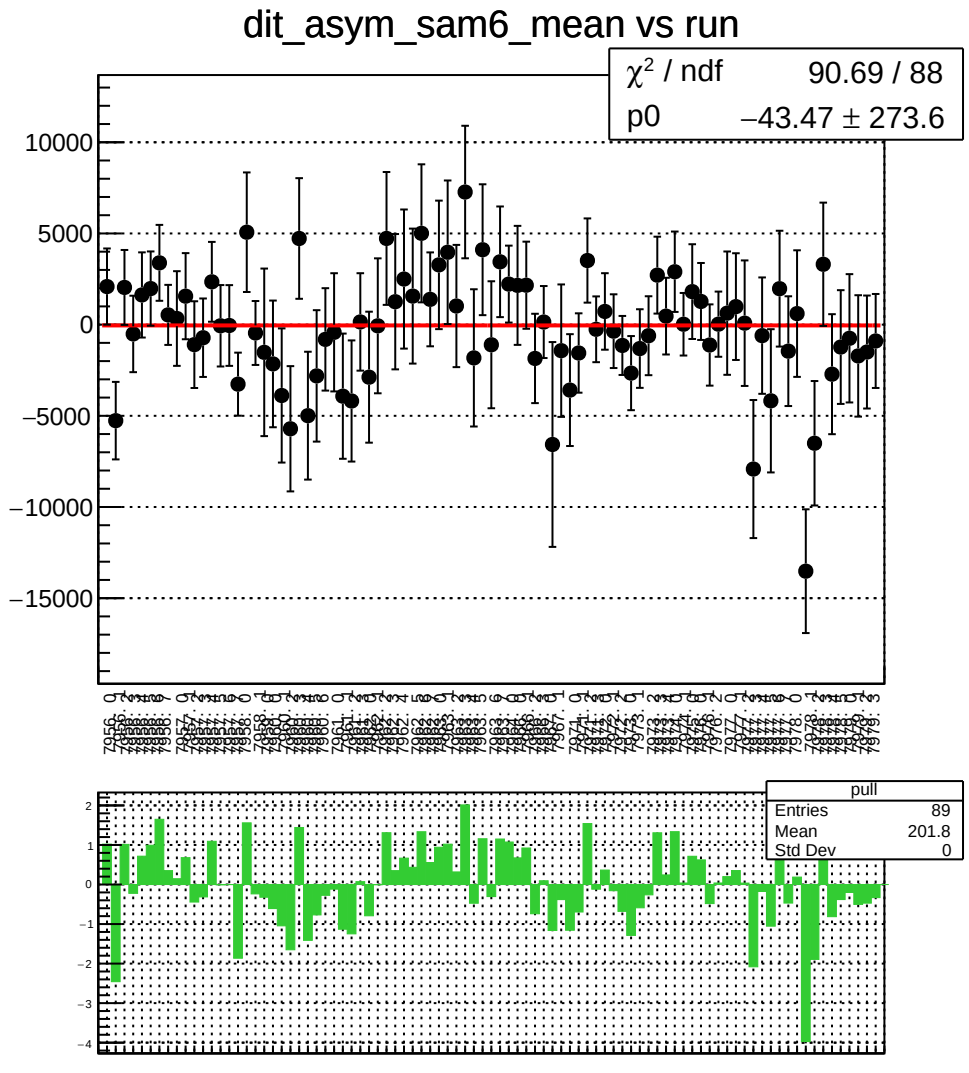

eigen_cor_asym_sam6_mean vs run
χ² / ndf 82.36 / 88
p0 −24.82 ± 208
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 152.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

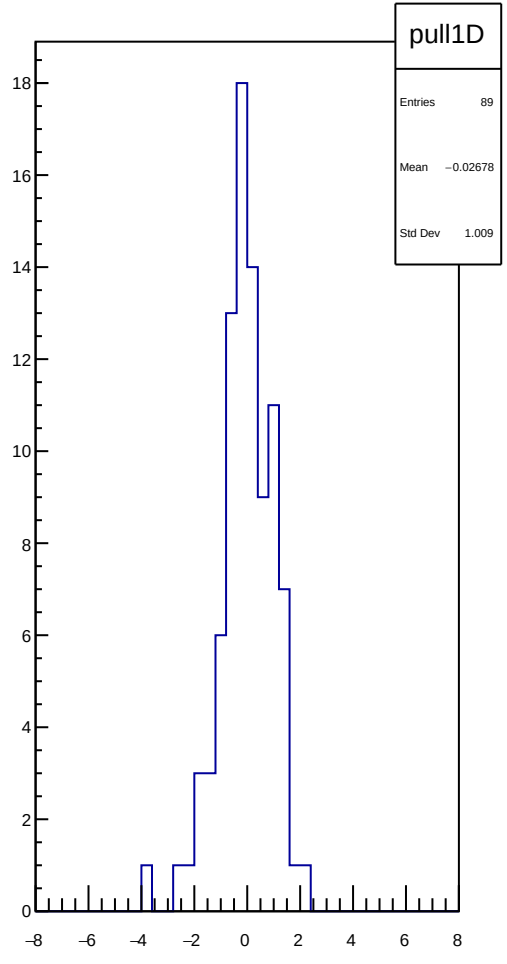

pull1D
Entries 89
Mean −0.004133
Std Dev 0.962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

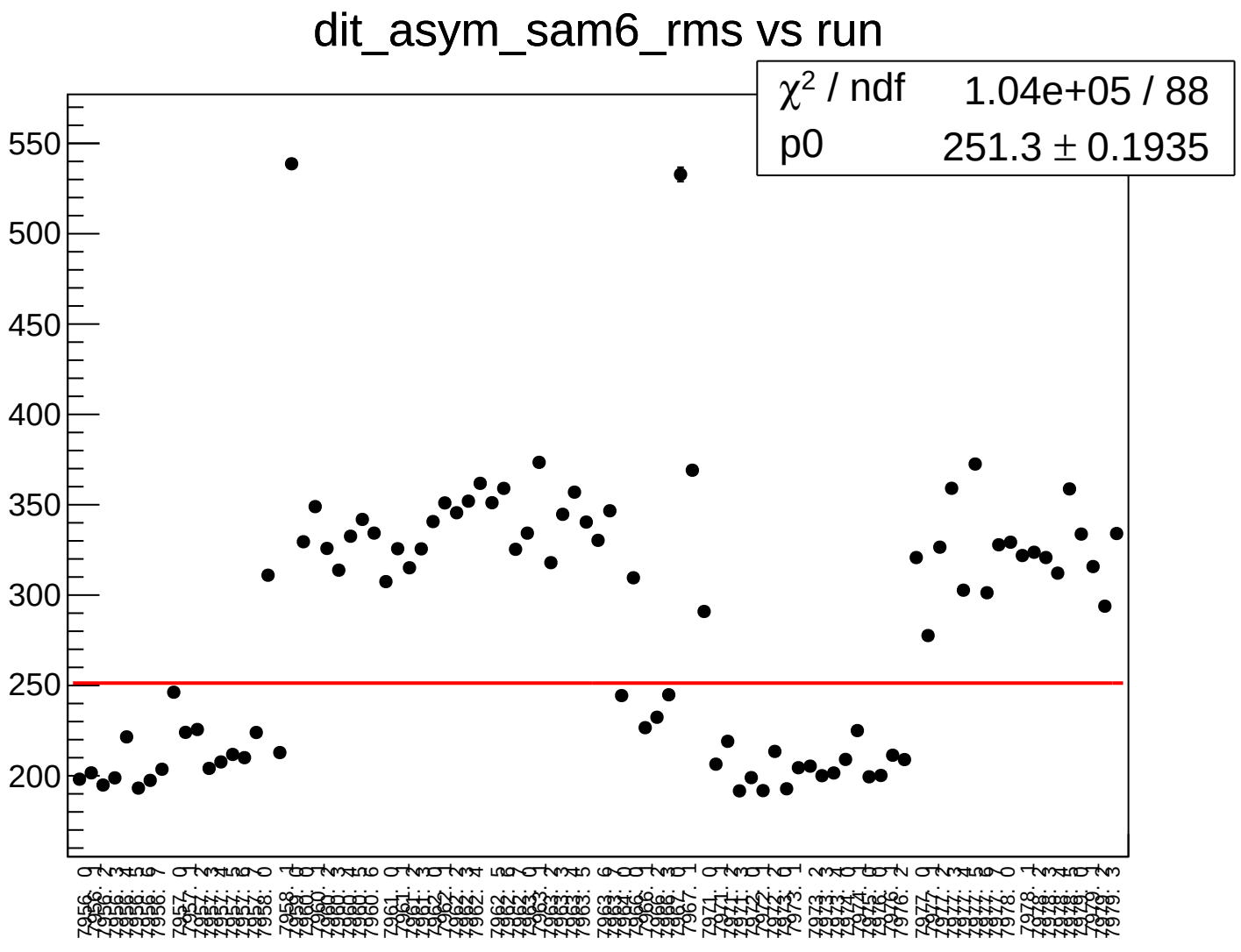

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.607e+04 / 88
p0 196 ± 0.1471
340
320
300
280
260
240
220
200
180
160

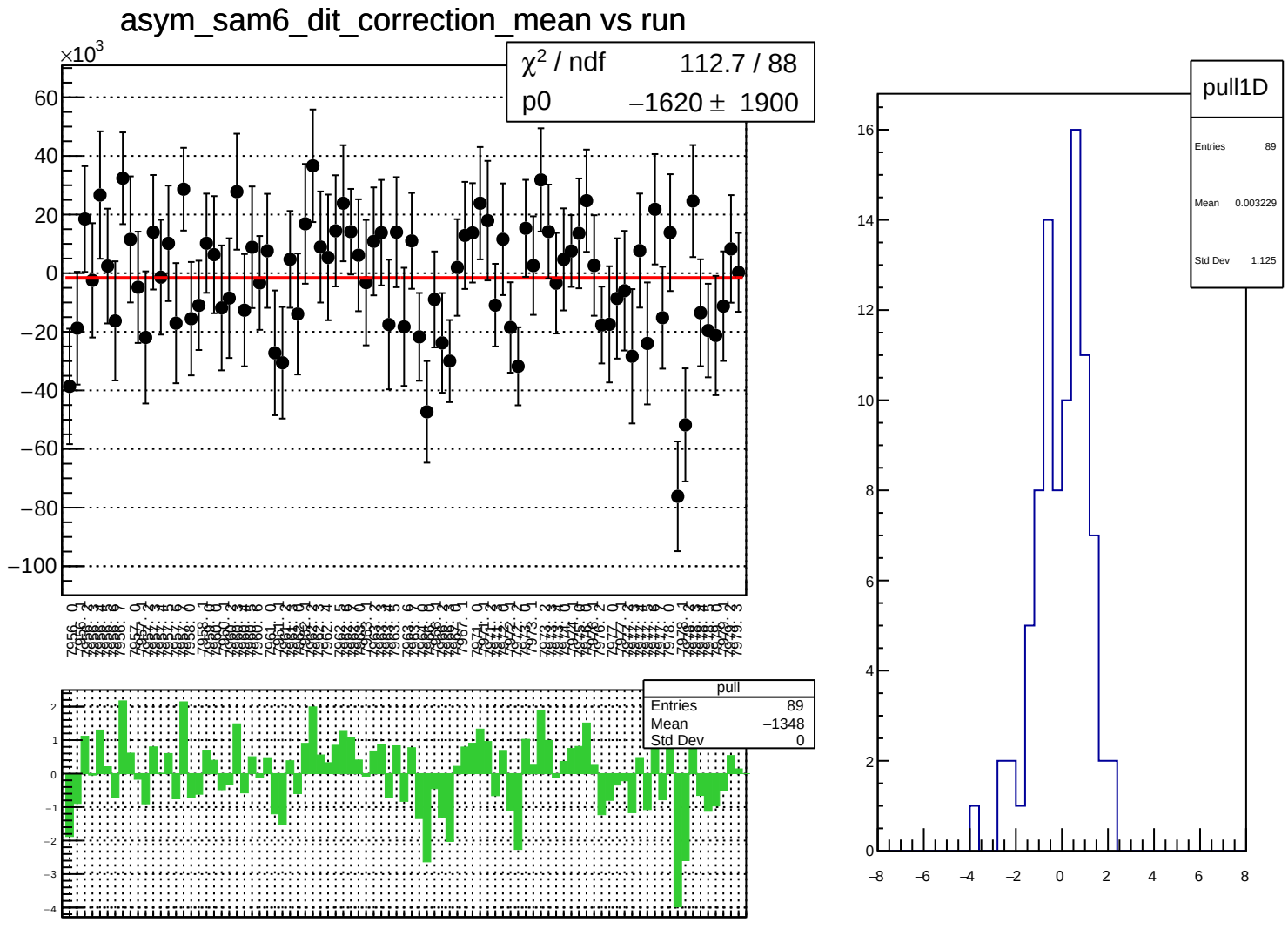

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 112.7 / 88
p0 −1416 ± 1765
pull
Entries 89
Mean −5104
Std Dev 0
pull1D
Entries 89
Mean 0.0008762
Std Dev 1.125

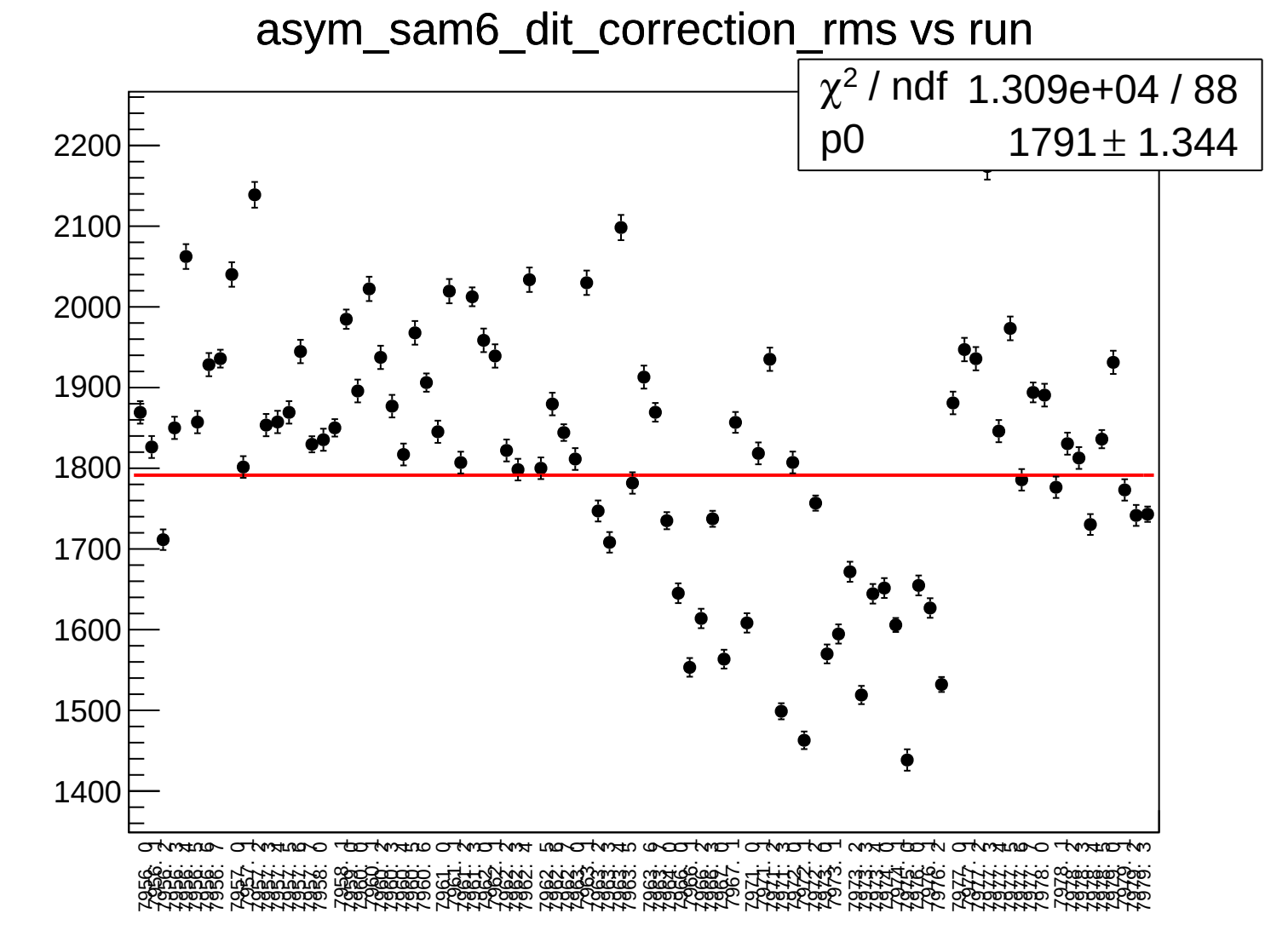

asym_sam6_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 1.857e+04 / 88
p0 1662 ± 1.248
2600
2400
2200
2000
1800
1600
1400
1200

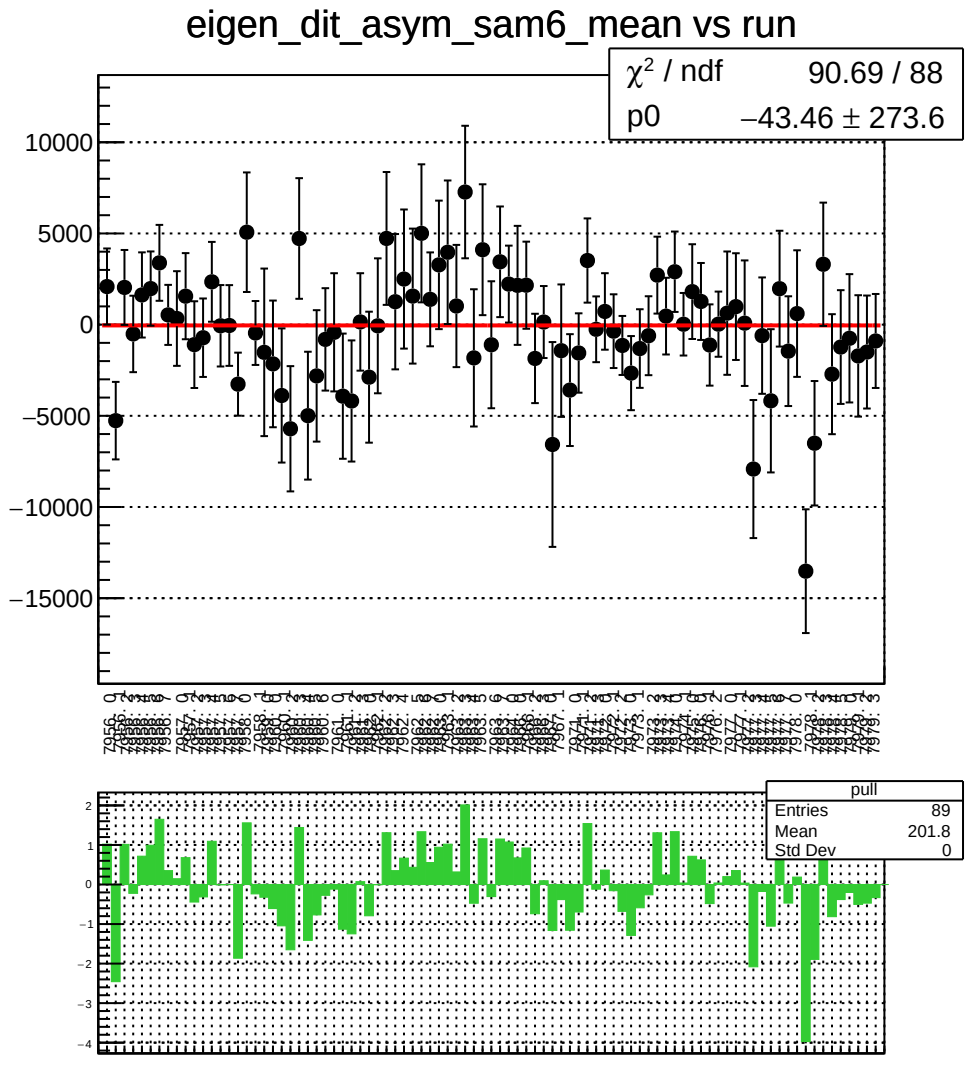

dit_asym_sam6_mean vs run
χ² / ndf 90.69 / 88
p0 −43.47 ± 273.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 201.8
Std Dev 0
2
1
0
−1
−2
−3
−4

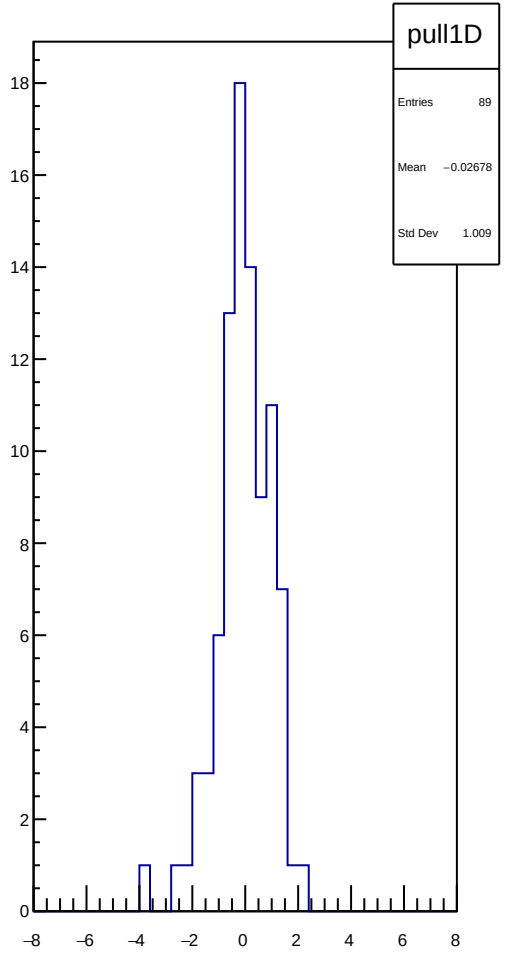

pull1D
Entries 89
Mean −0.02678
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

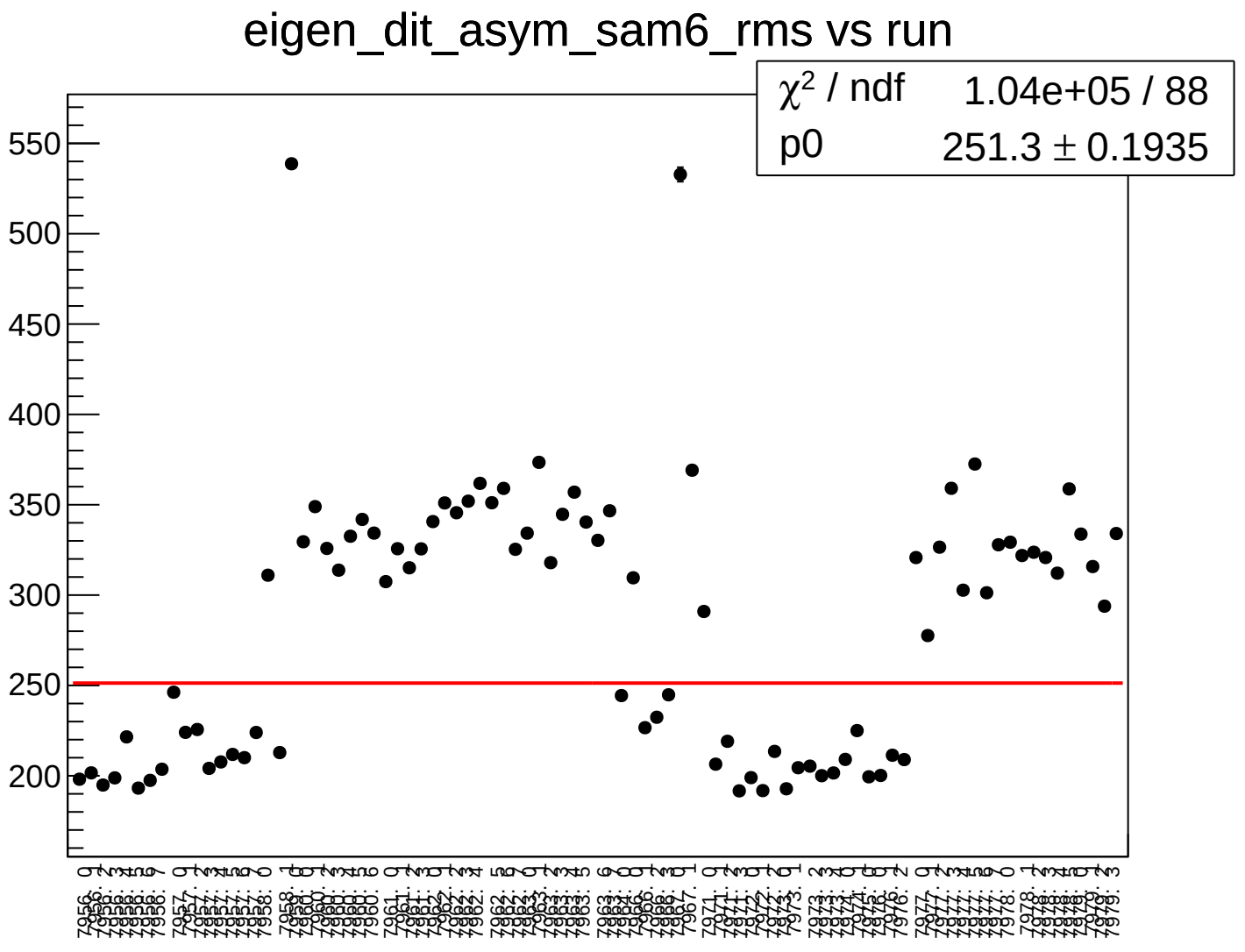

dit_asym_sam6_rms vs run
χ² / ndf 1.04e+05 / 88
p0 251.3 ± 0.1935
550
500
450
400
350
300
250
200

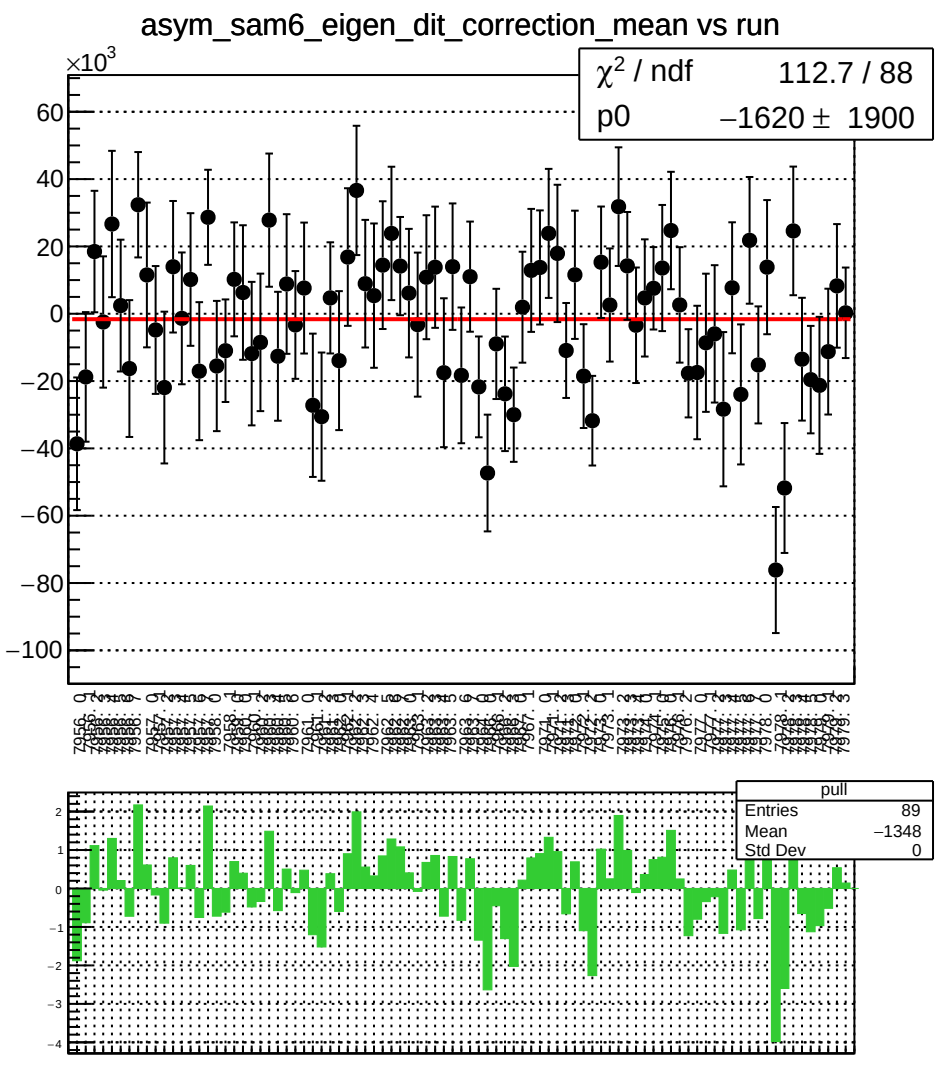

asym_sam6_dit_correction_mean vs run
×10^3
χ² / ndf 112.7 / 88
p0 −1620 ± 1900
pull
Entries 89
Mean −1348
Std Dev 0
pull1D
Entries 89
Mean 0.003229
Std Dev 1.125

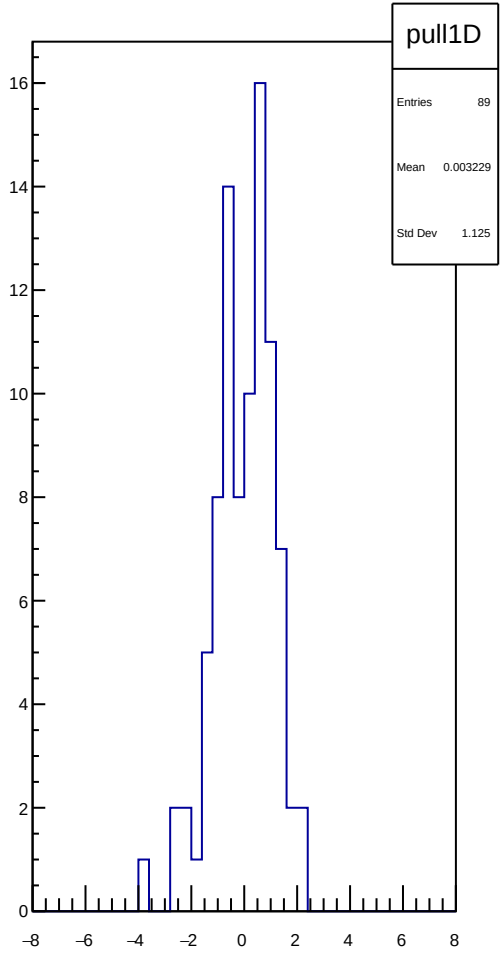

asym_sam6_dit_correction_rms vs run
χ² / ndf 1.309e+04 / 88
p0 1791 ± 1.344
2200
2100
2000
1900
1800
1700
1600
1500
1400

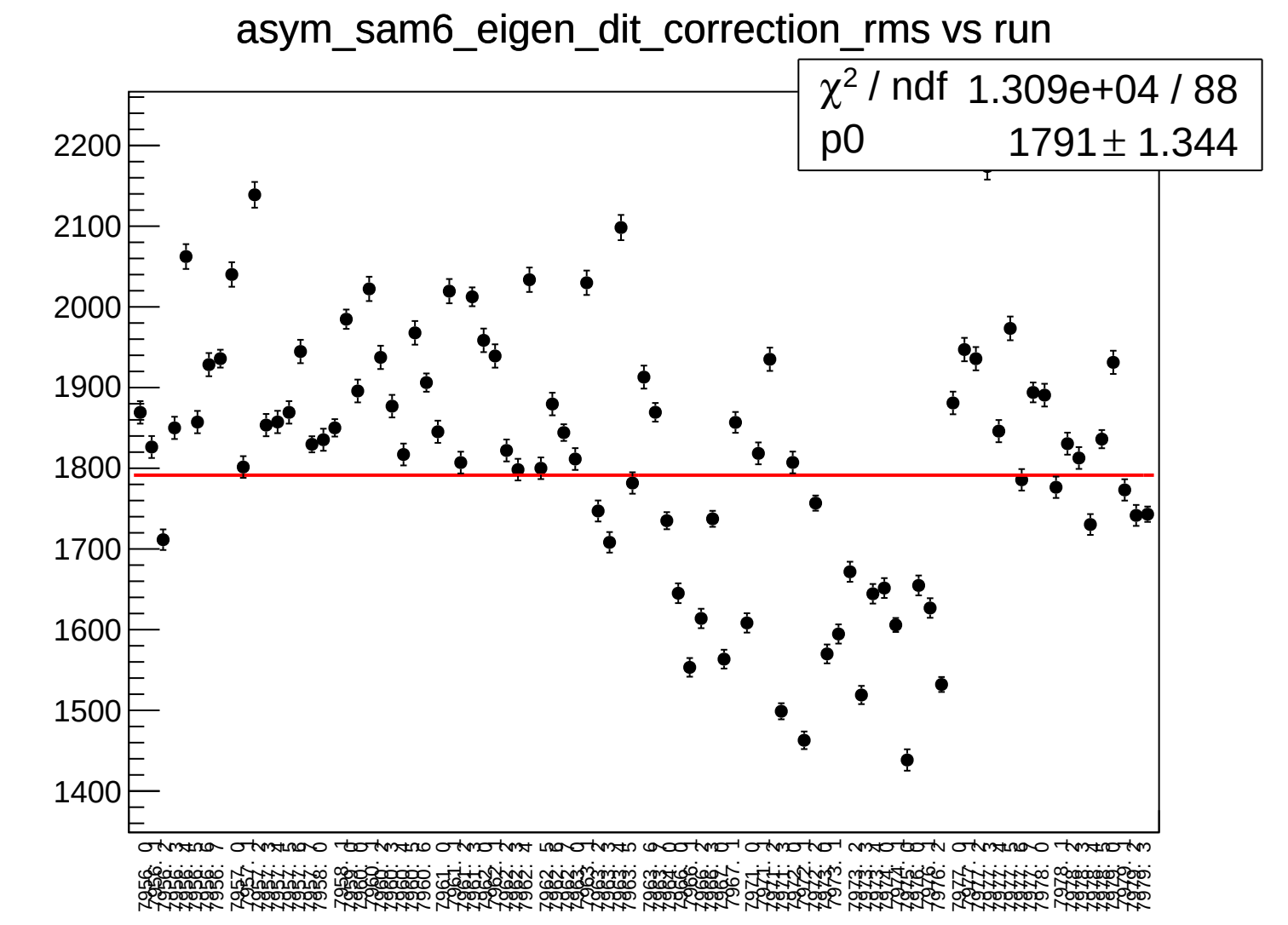

eigen_dit_asym_sam6_mean vs run
χ² / ndf 90.69 / 88
p0 −43.46 ± 273.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 201.8
Std Dev 0
2
1
0
−1
−2
−3
−4

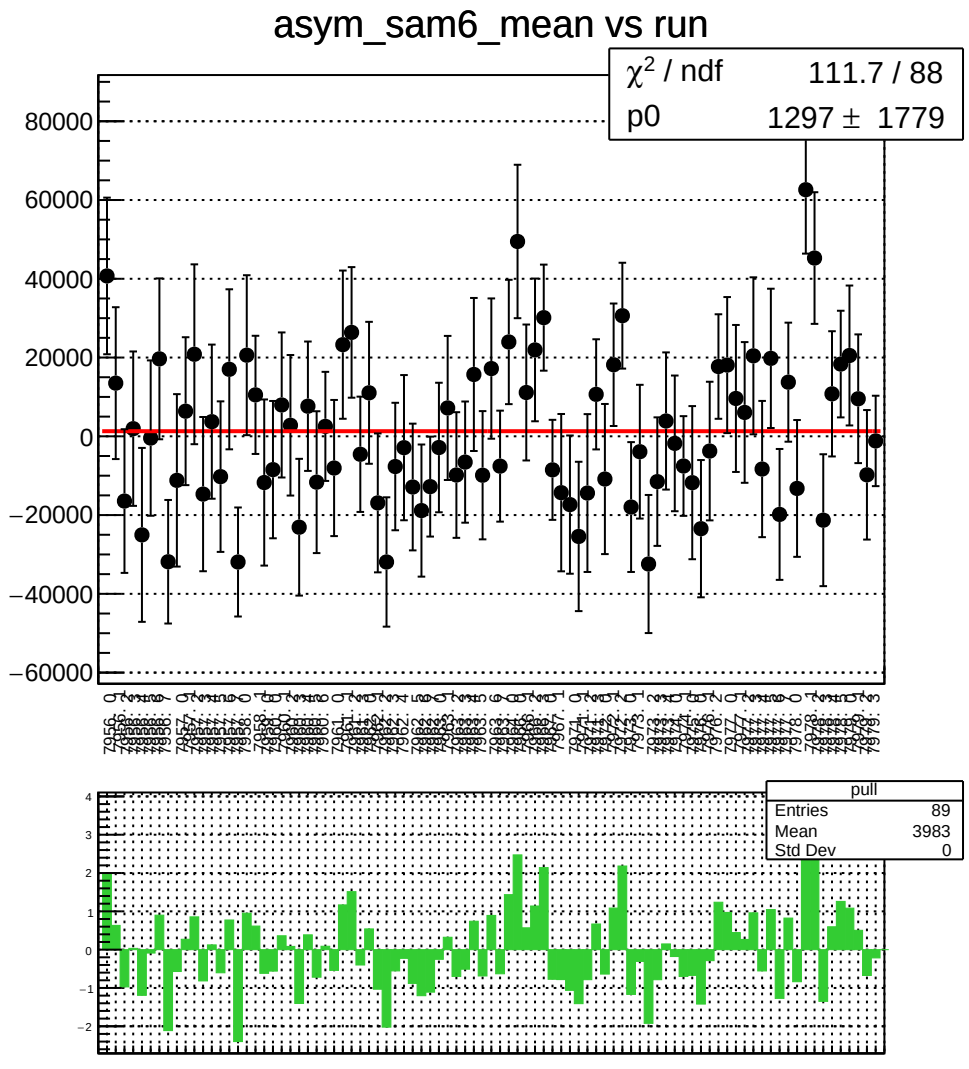

pull1D
Entries 89
Mean −0.02678
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

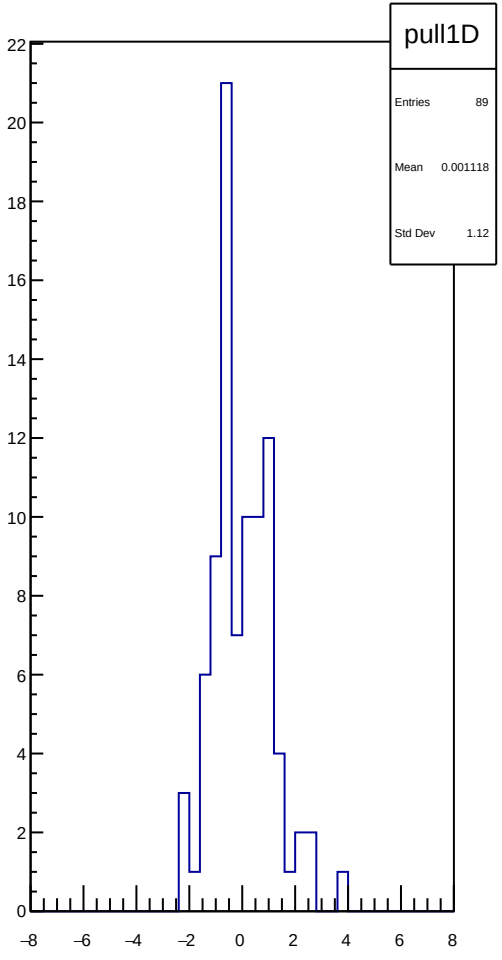

eigen_dit_asym_sam6_rms vs run
$\chi^2$ / ndf 1.04e+05 / 88
p0 251.3 ± 0.1935
550
500
450
400
350
300
250
200

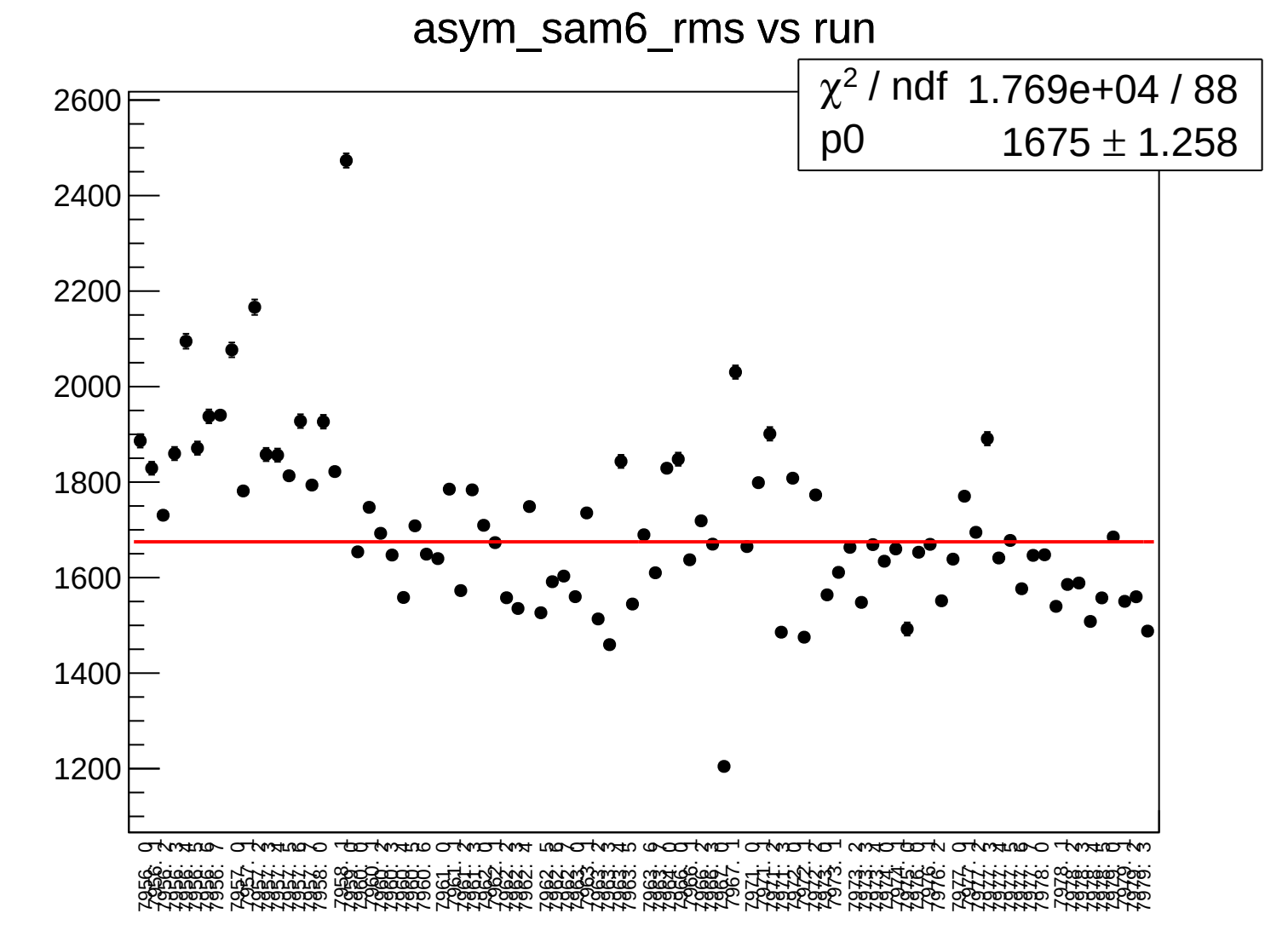

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 112.7 / 88
p0 −1620 ± 1900
×10³
pull
Entries 89
Mean −1348
Std Dev 0

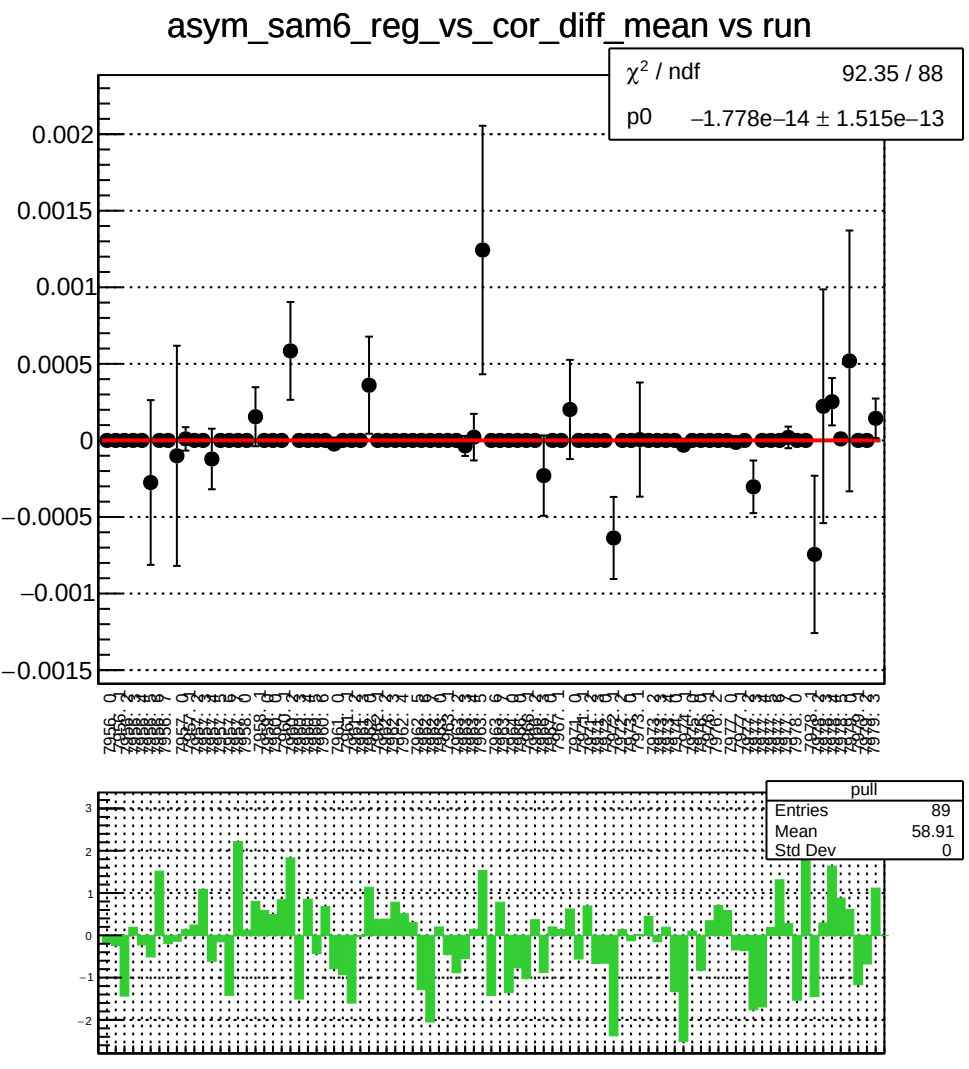

pull1D
Entries 89
Mean 0.003229
Std Dev 1.125

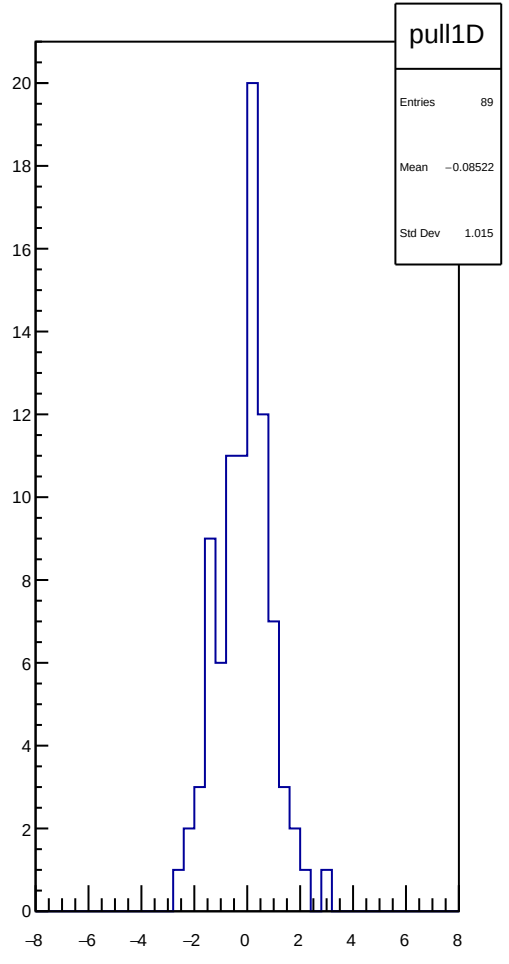

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1.309e+04 / 88
p0 1791 ± 1.344
2200
2100
2000
1900
1800
1700
1600
1500
1400

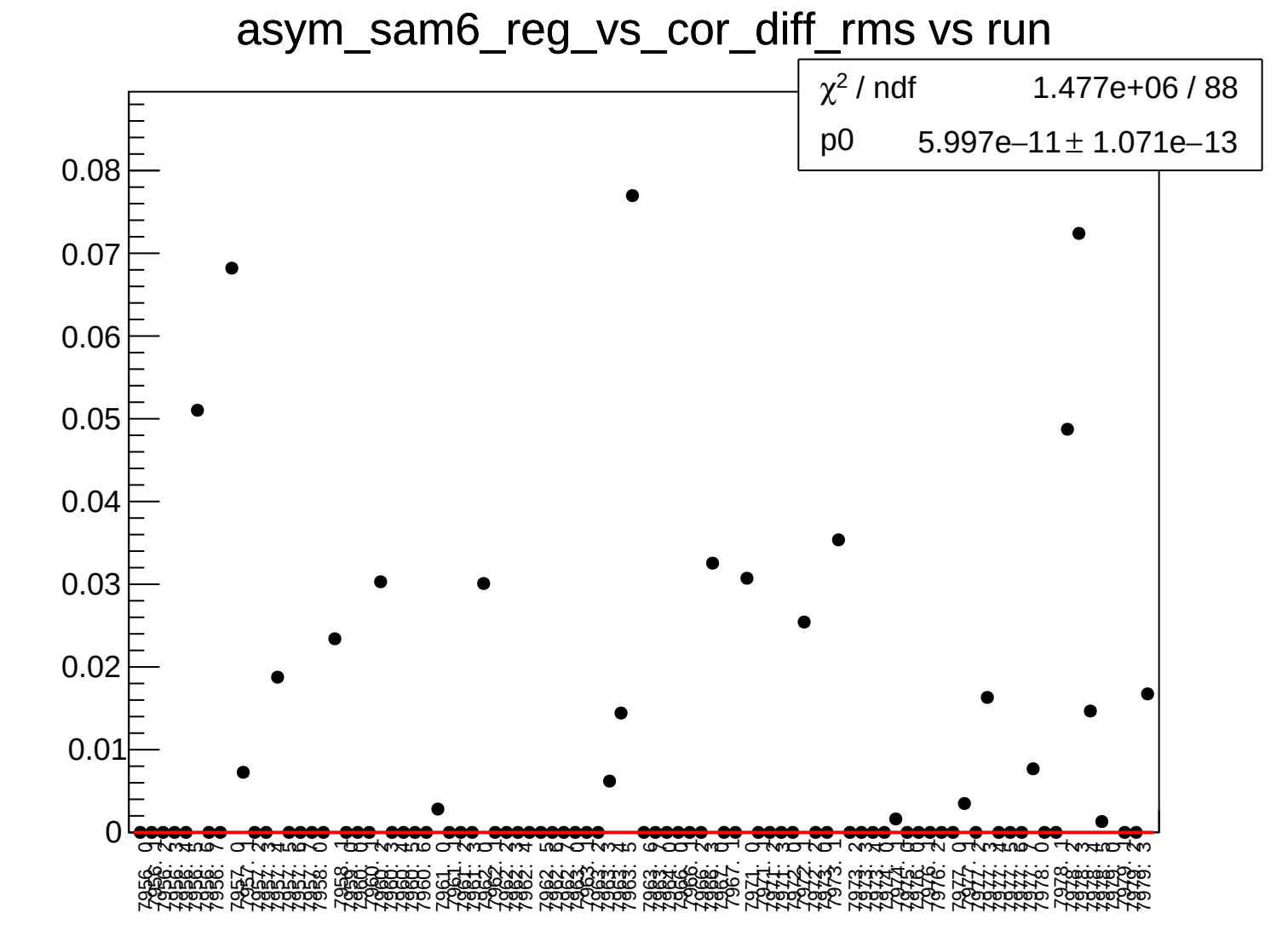

asym_sam6_mean vs run
χ² / ndf 111.7 / 88
p0 1297 ± 1779
pull
Entries 89
Mean 3983
Std Dev 0

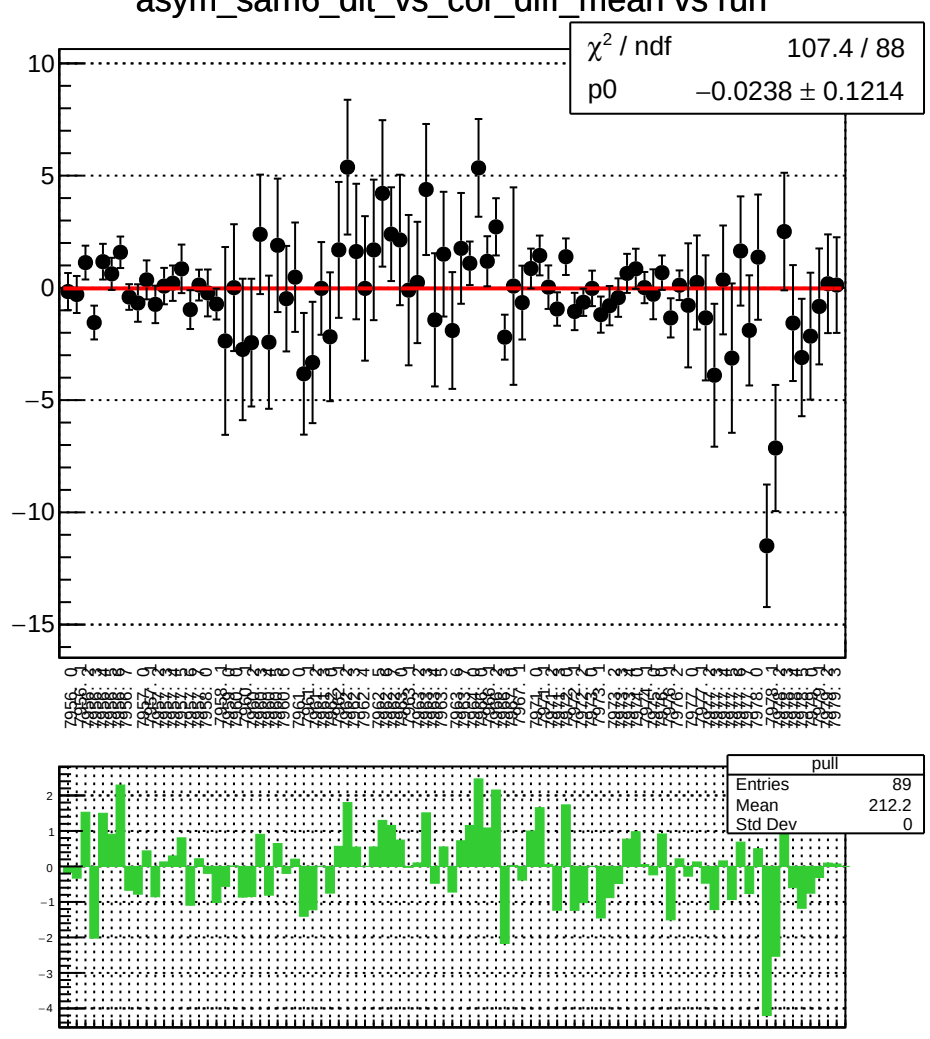

pull1D
Entries 89
Mean 0.001118
Std Dev 1.12

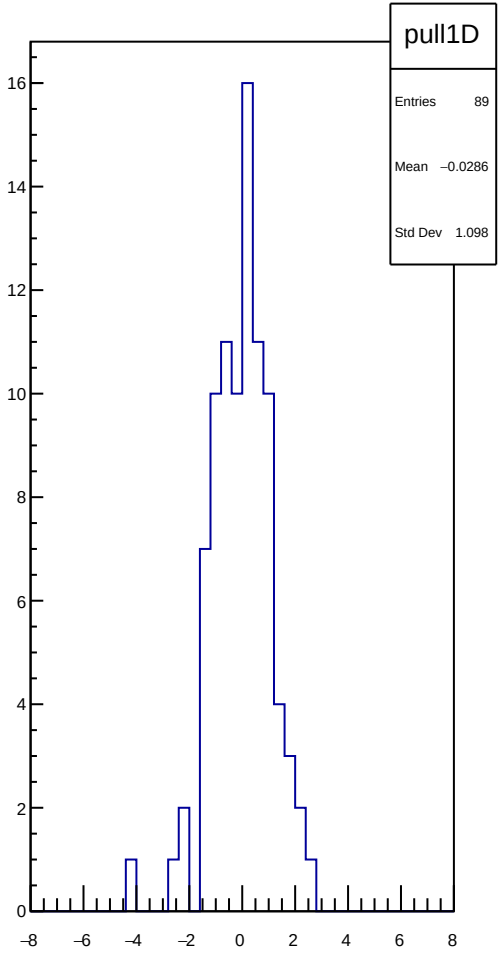

asym_sam6_rms vs run
$\chi^2$ / ndf 1.769e+04 / 88
p0 1675 ± 1.258
2600
2400
2200
2000
1800
1600
1400
1200

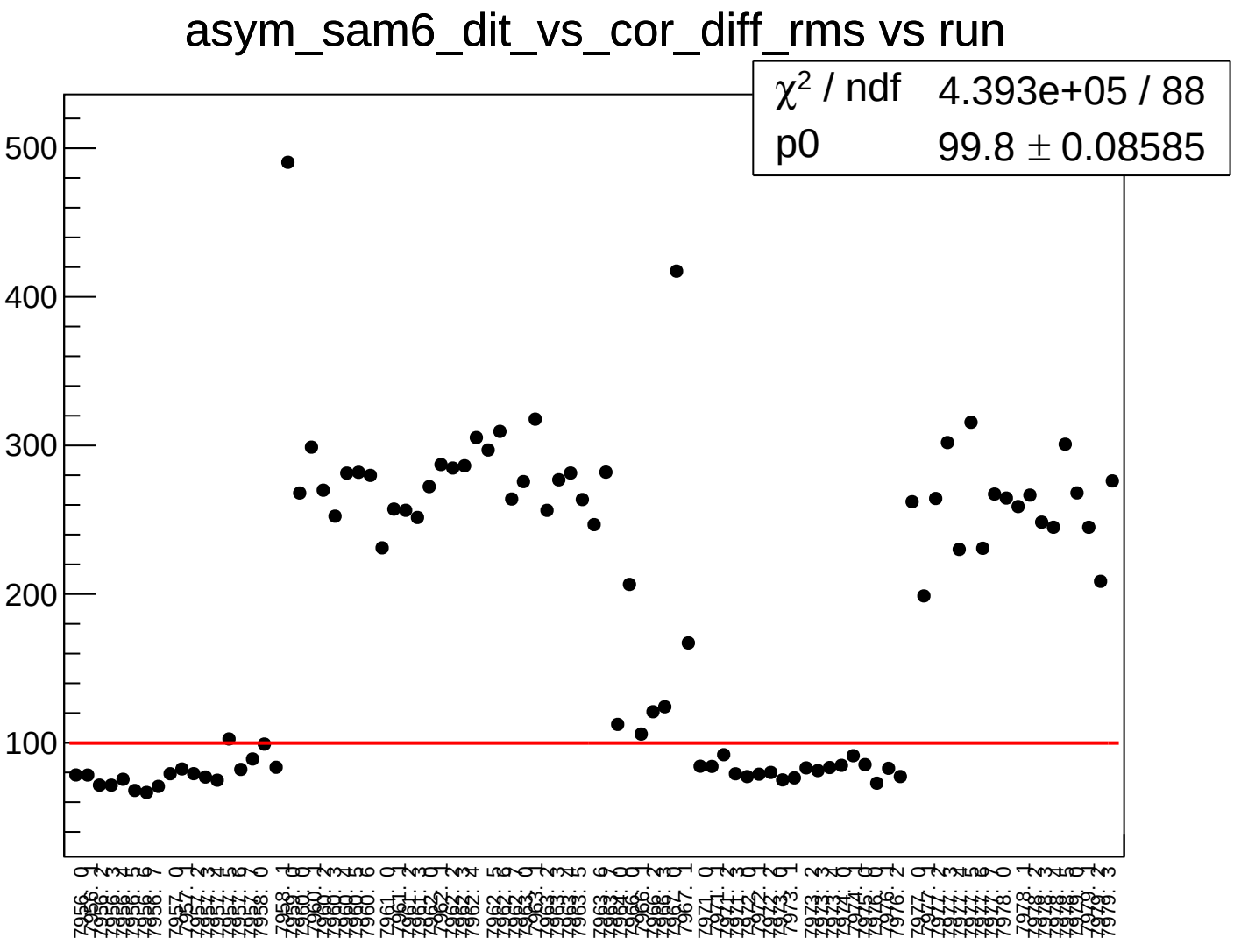

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 92.35 / 88
p0 −1.778e−14 ± 1.515e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 58.91
Std Dev 0
3
2
1
0
−1
−2

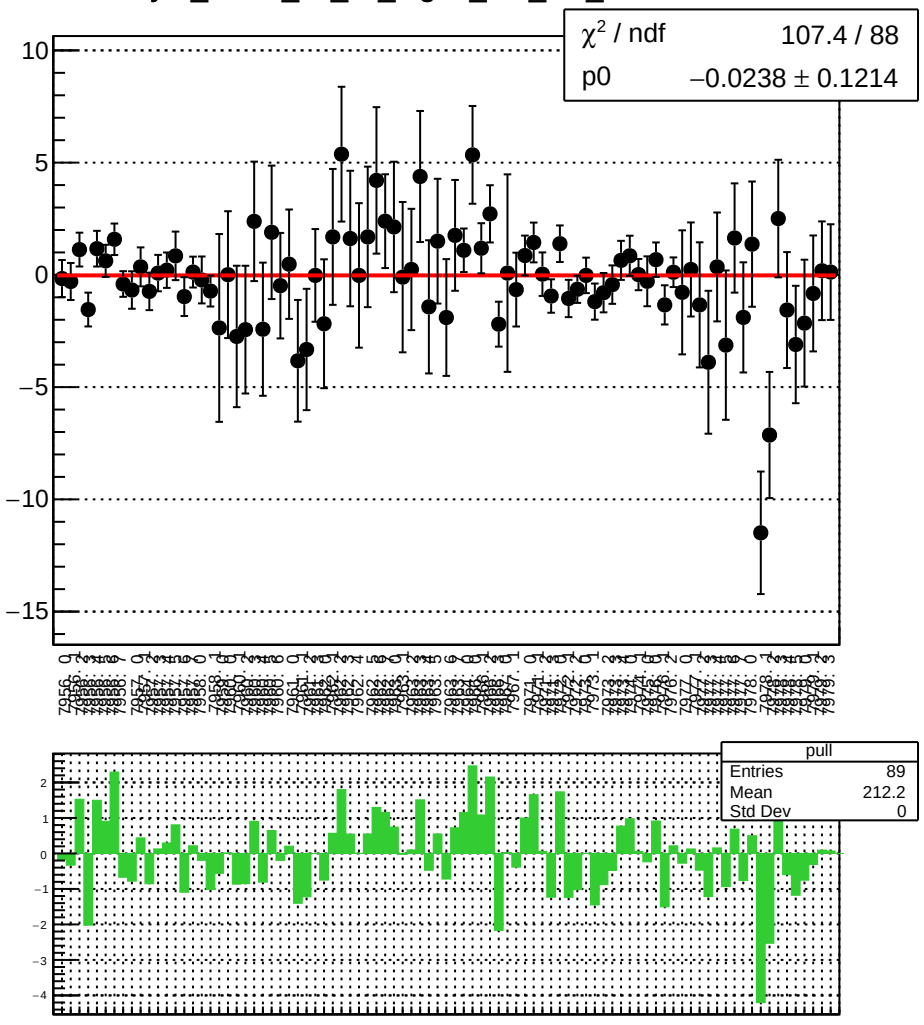

pull1D
Entries 89
Mean −0.08522
Std Dev 1.015
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

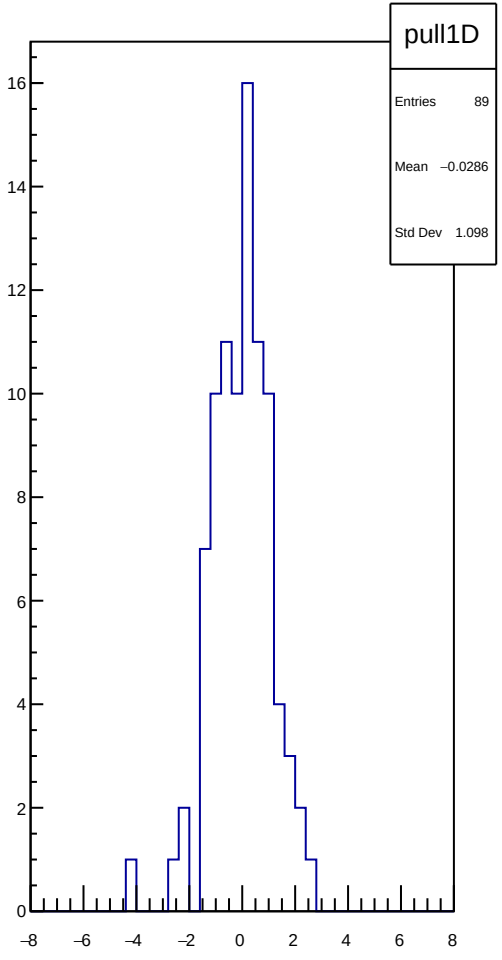

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.477e+06 / 88
p0 5.997e−11 ± 1.071e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

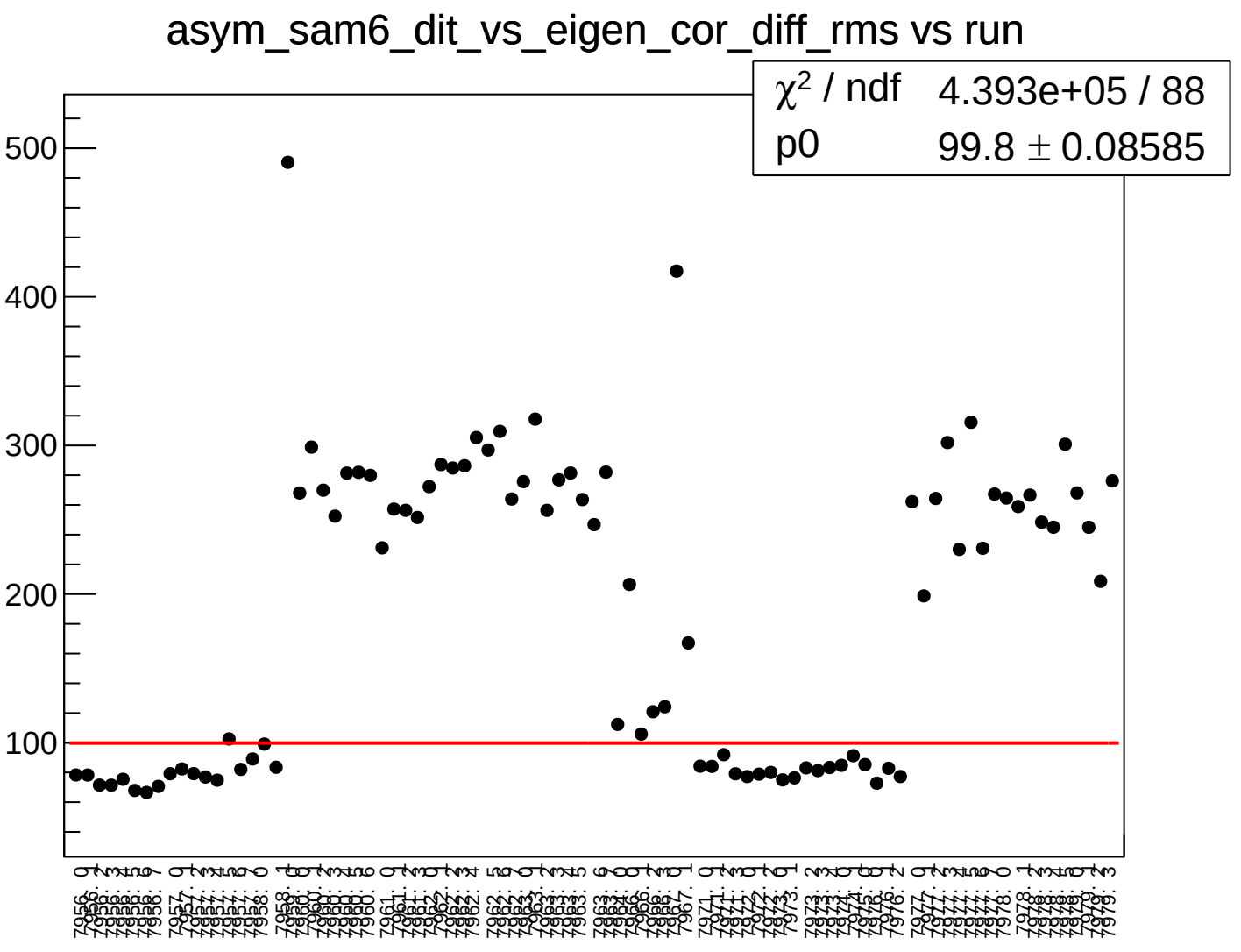

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 88
p0 −0.0238 ± 0.1214
pull
Entries 89
Mean 212.2
Std Dev 0

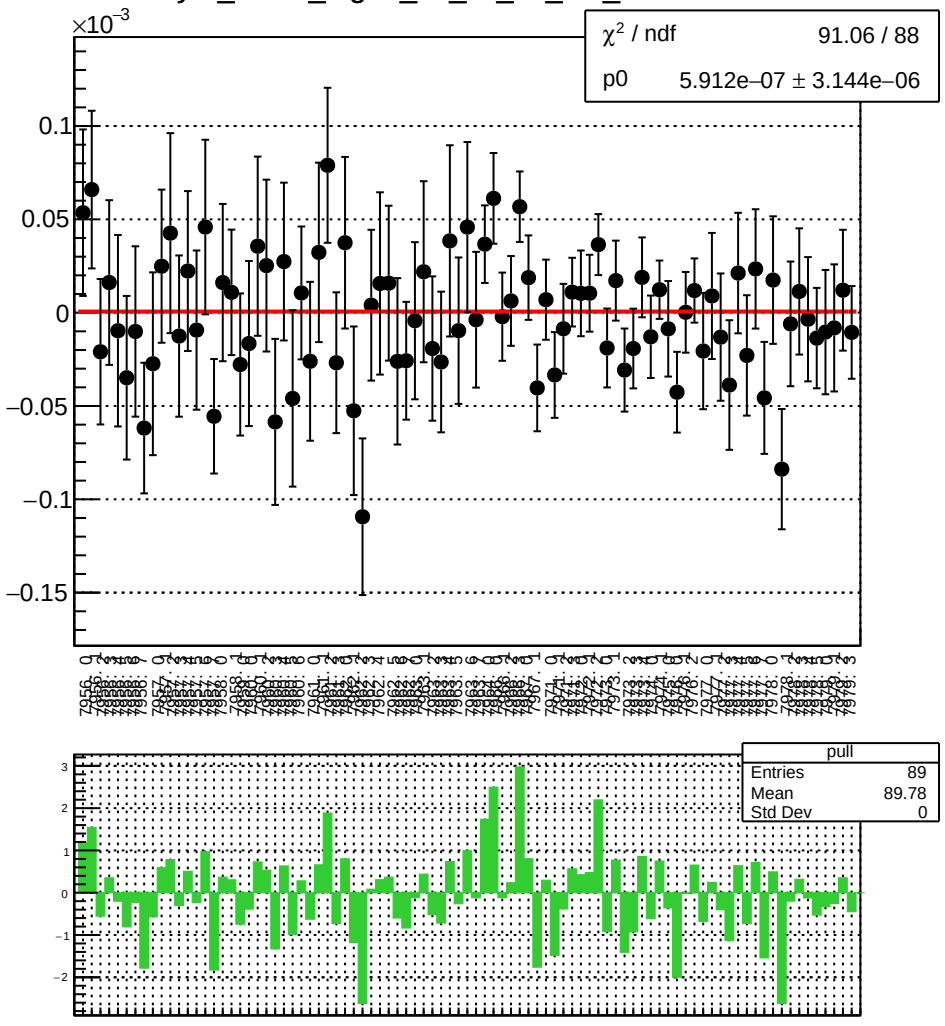

pull1D
Entries 89
Mean −0.0286
Std Dev 1.098

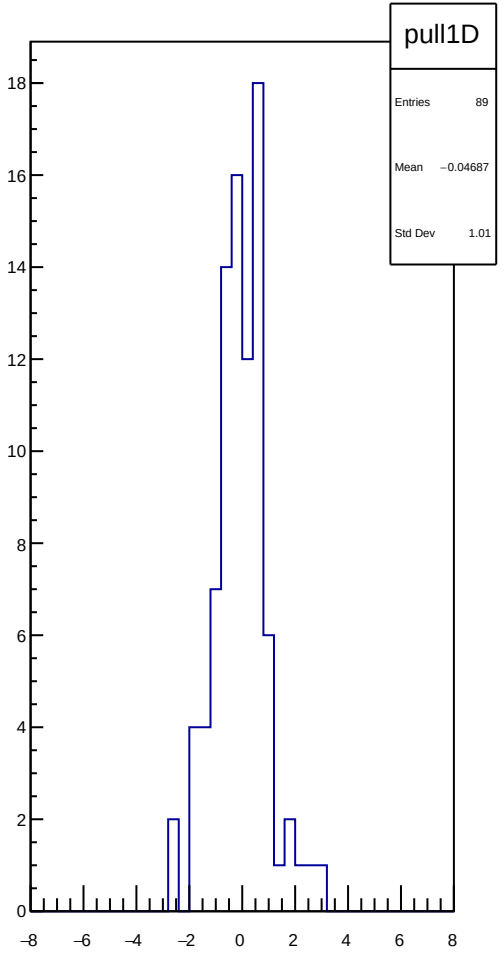

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 4.393e+05 / 88
p0 99.8 ± 0.08585
500
400
300
200
100

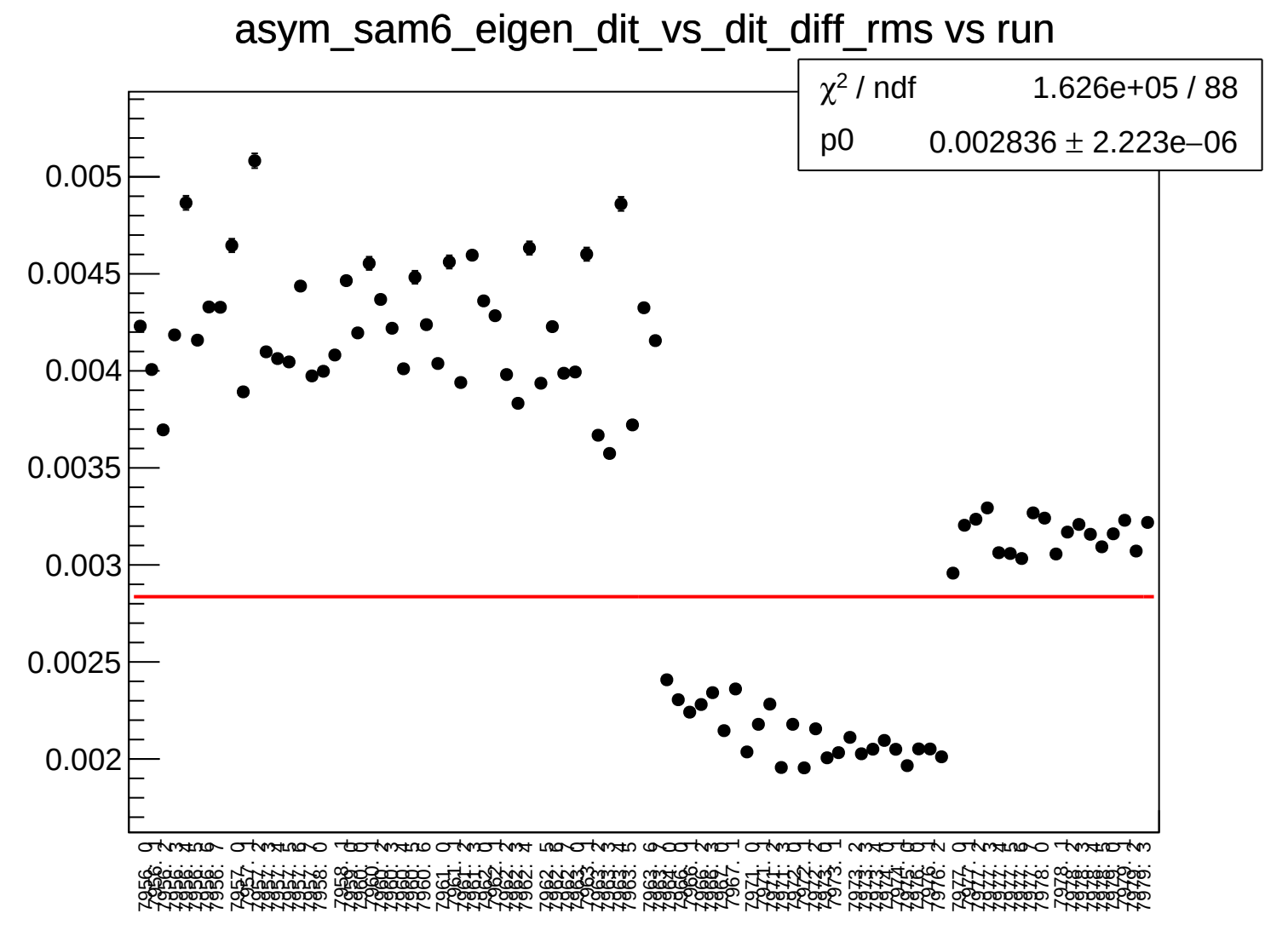

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.4 / 88
p0 −0.0238 ± 0.1214
pull
Entries 89
Mean 212.2
Std Dev 0

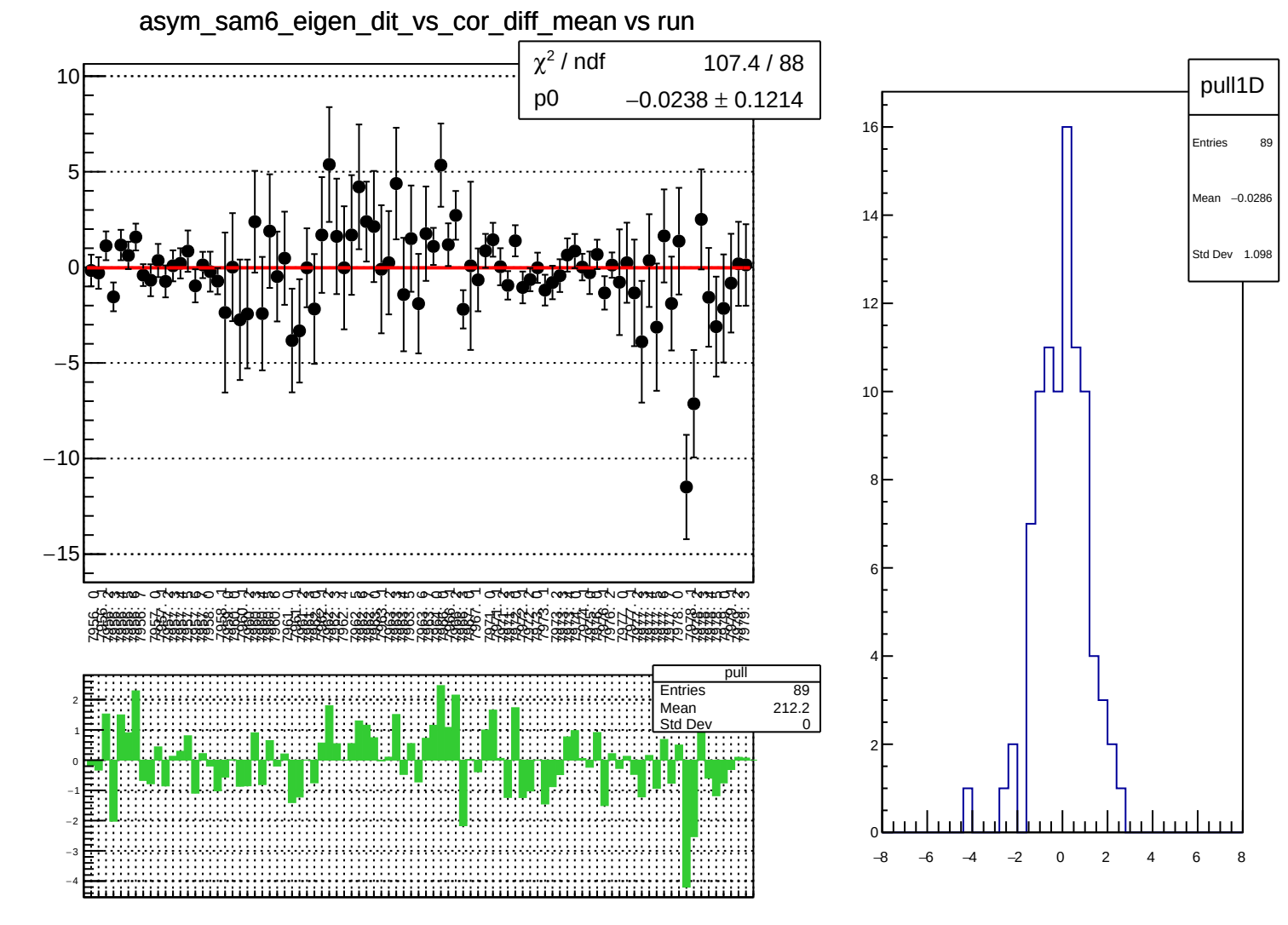

pull1D
Entries 89
Mean −0.0286
Std Dev 1.098

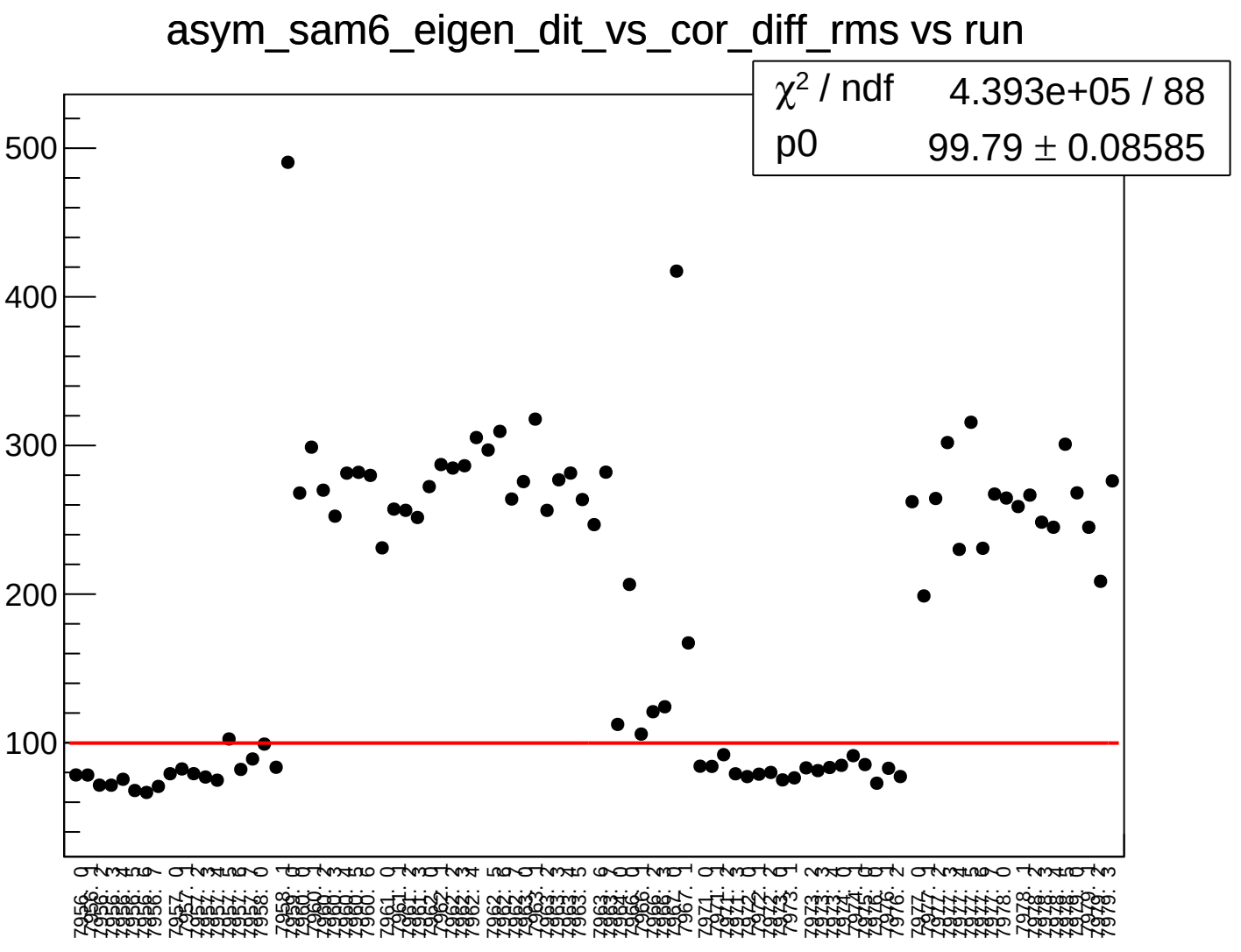

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.393e+05 / 88
p0 99.8 ± 0.08585
500
400
300
200
100

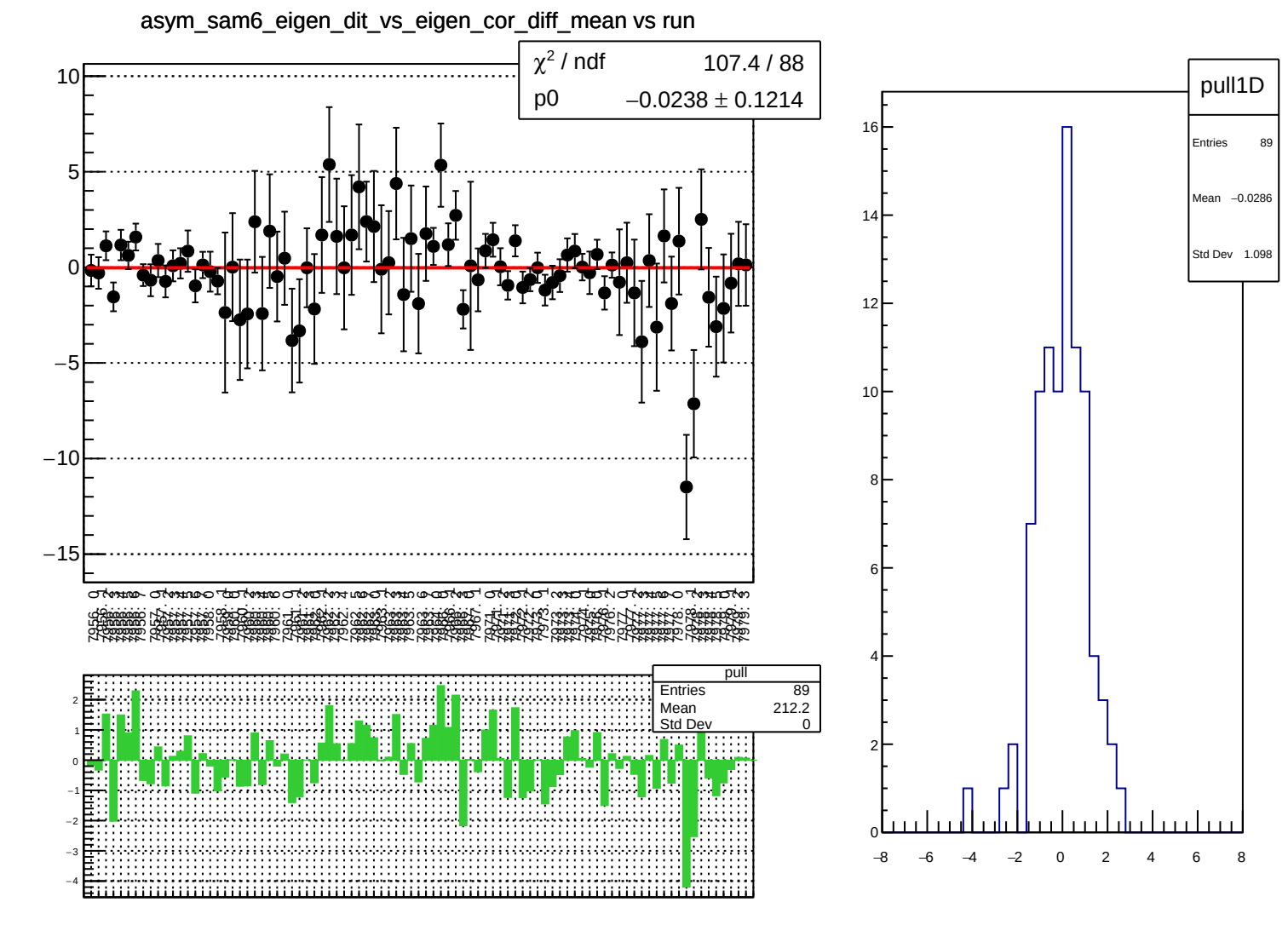

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.06 / 88
p0 5.912e−07 ± 3.144e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 89.78
Std Dev 0
3
2
1
0
−1
−2

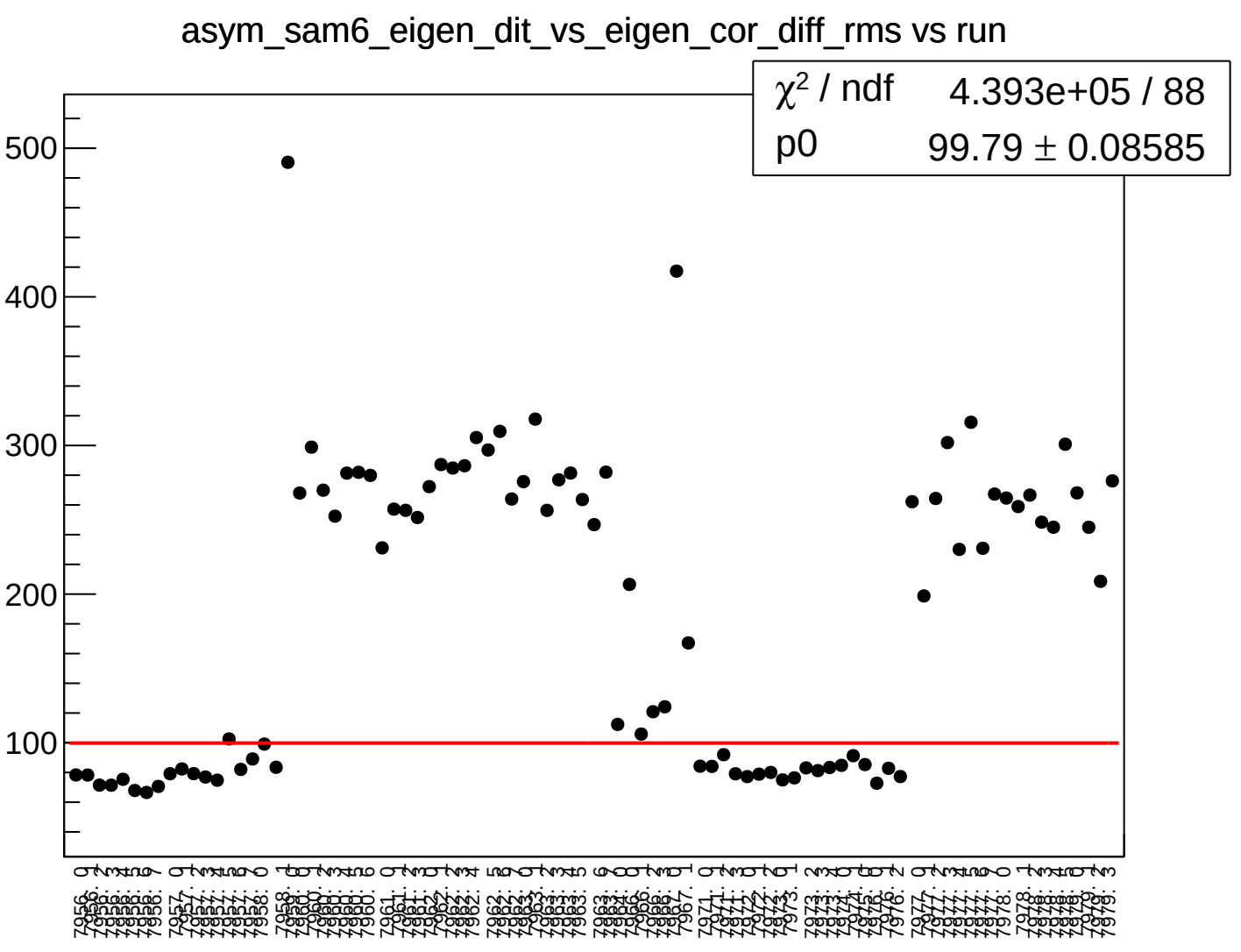

pull1D
Entries 89
Mean −0.04687
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

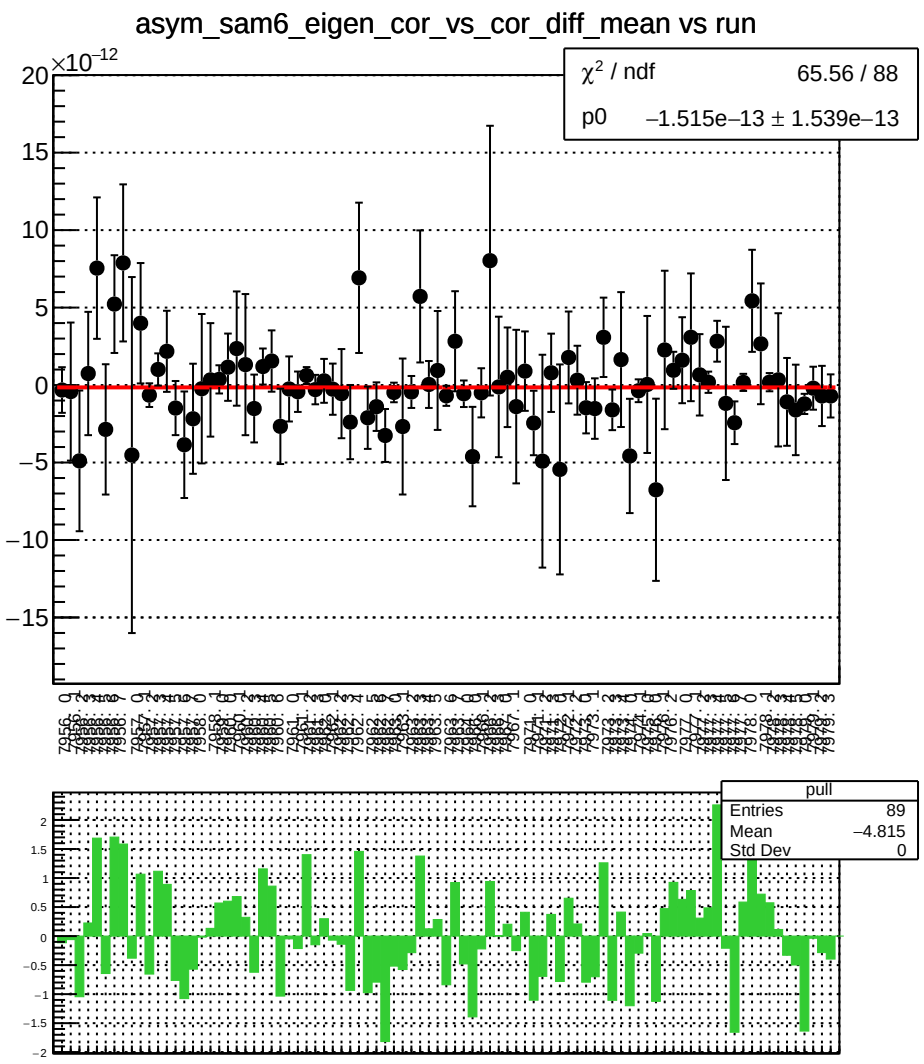

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.626e+05 / 88
p0 0.002836 ± 2.223e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

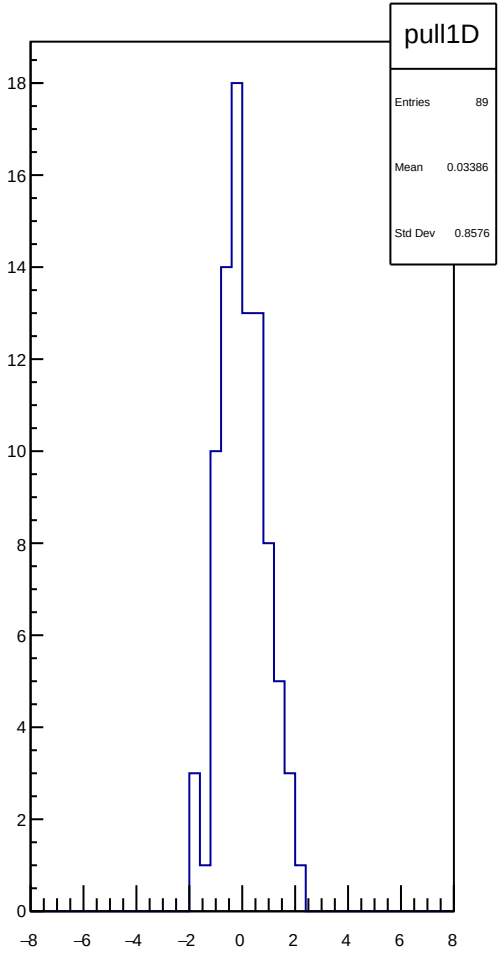

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 88
p0 −0.0238 ± 0.1214
pull
Entries 89
Mean 212.2
Std Dev 0
pull1D
Entries 89
Mean −0.0286
Std Dev 1.098

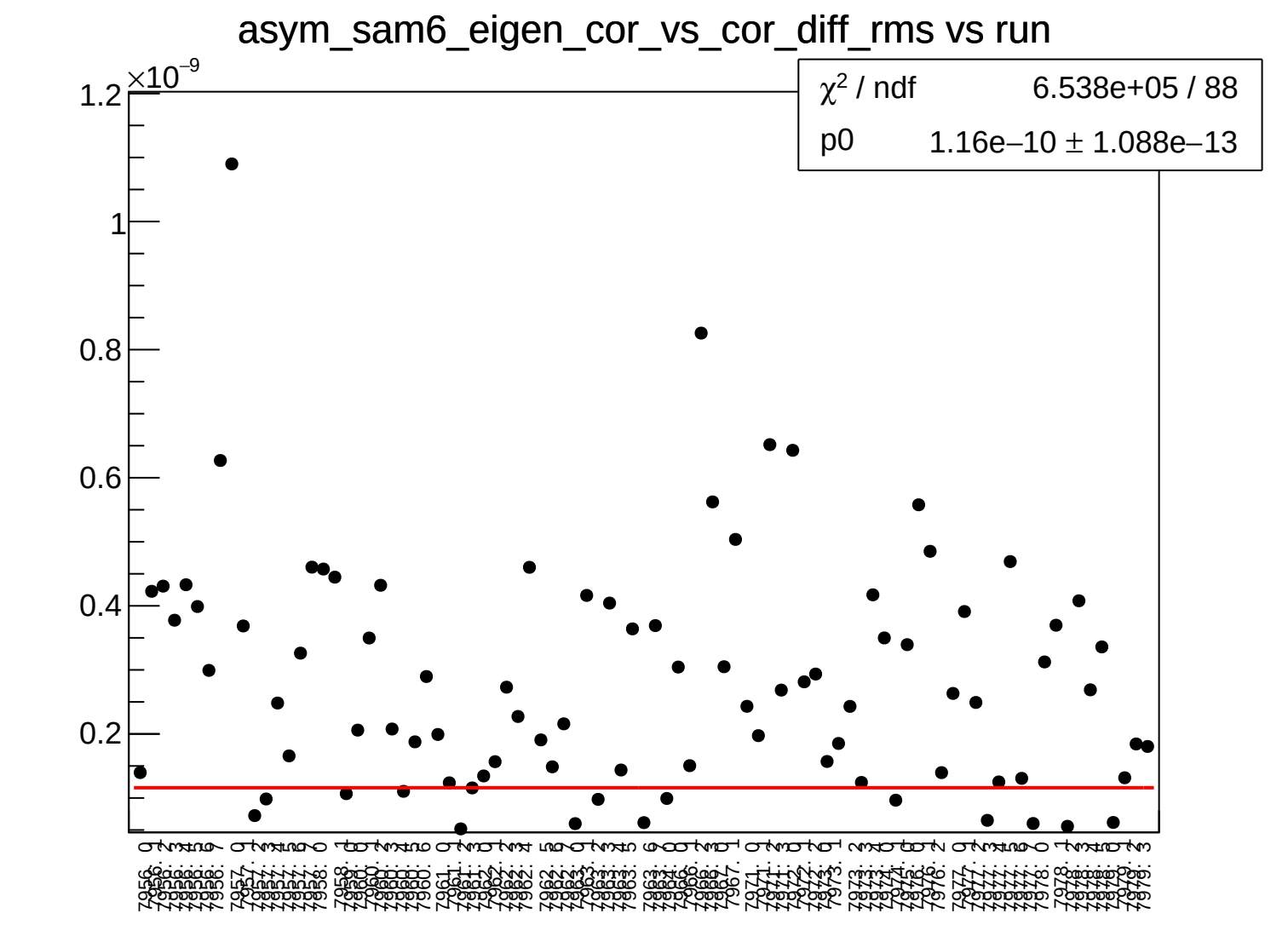

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.393e+05 / 88
p0 99.79 ± 0.08585
500
400
300
200
100

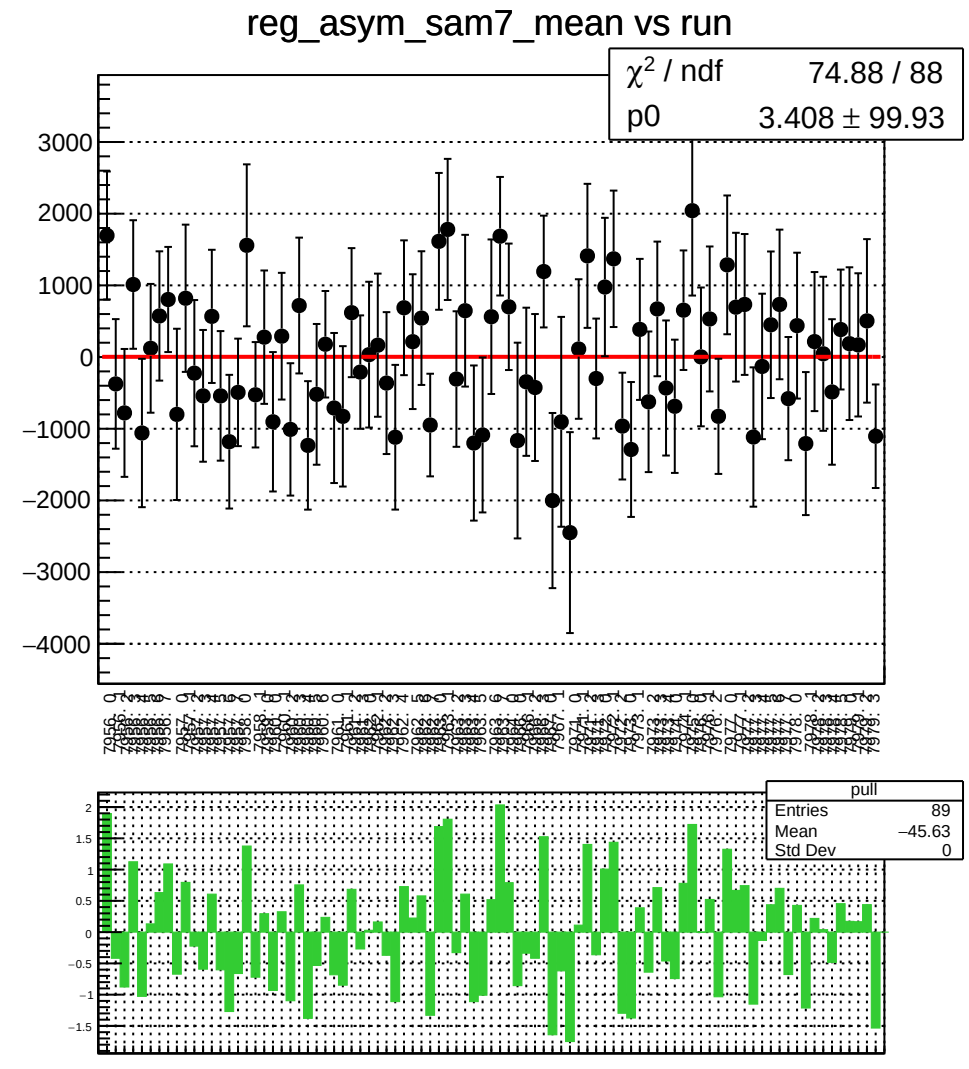

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.4 / 88
p0 −0.0238 ± 0.1214
pull
Entries 89
Mean 212.2
Std Dev 0
pull1D
Entries 89
Mean −0.0286
Std Dev 1.098

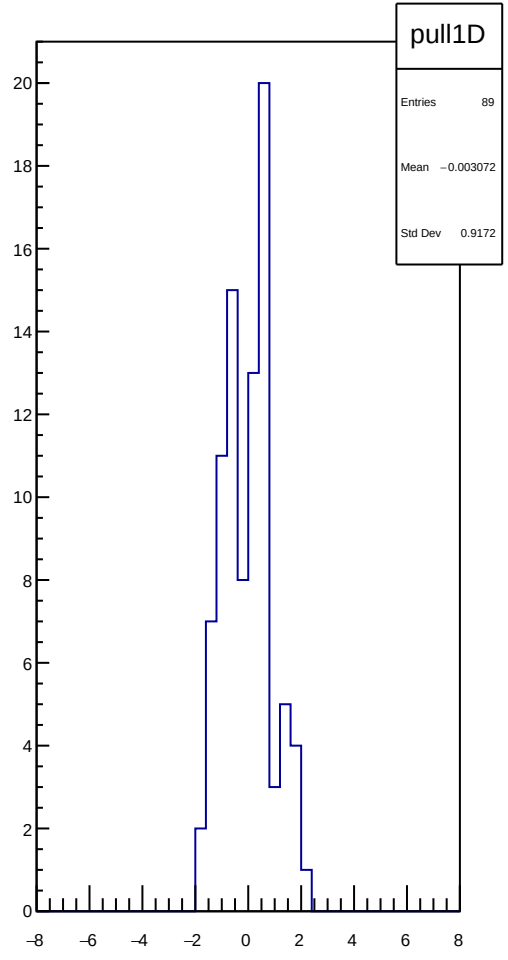

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.393e+05 / 88
p0 99.79 ± 0.08585
500
400
300
200
100

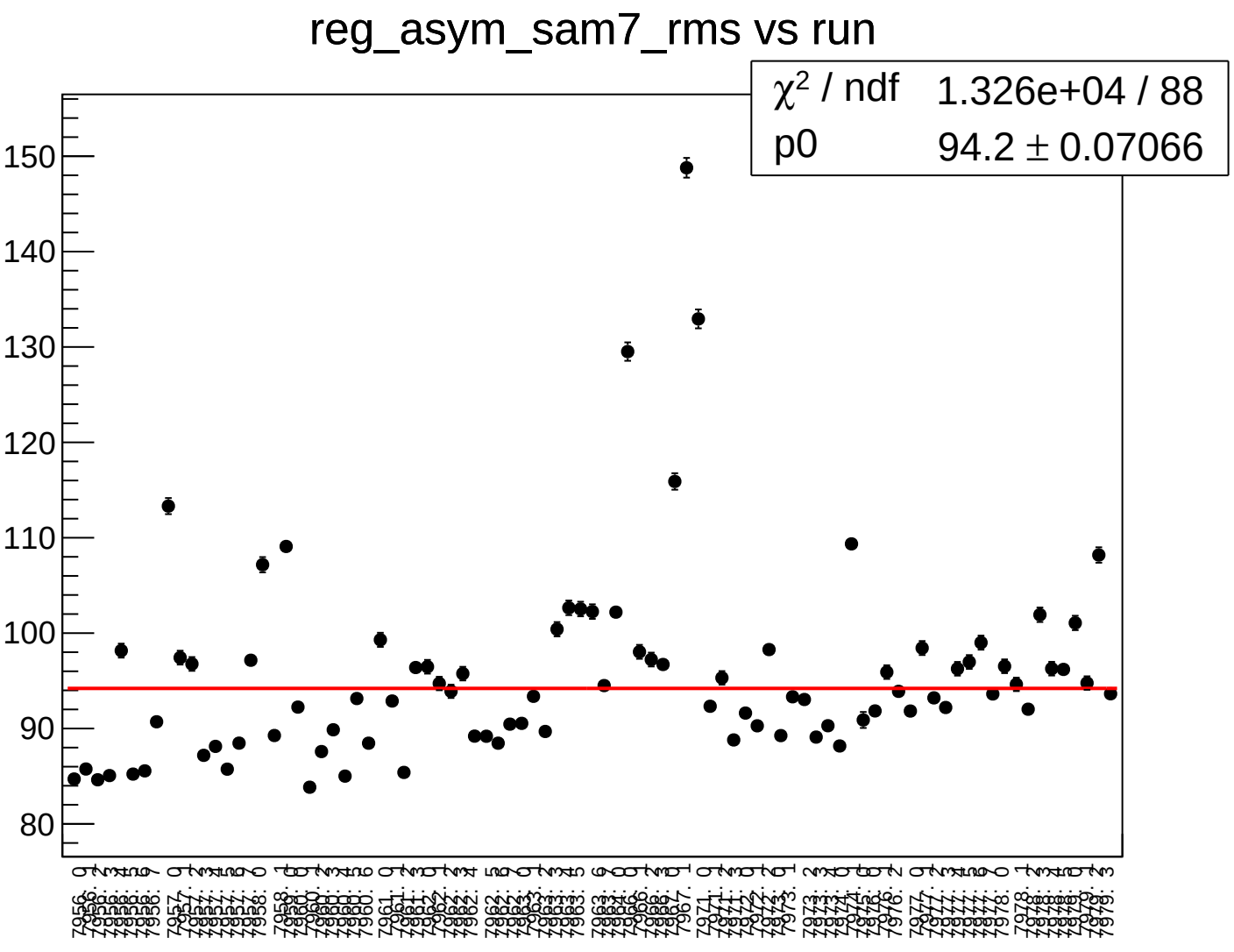

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.56 / 88
p0 −1.515e−13 ± 1.539e−13
pull
Entries 89
Mean −4.815
Std Dev 0

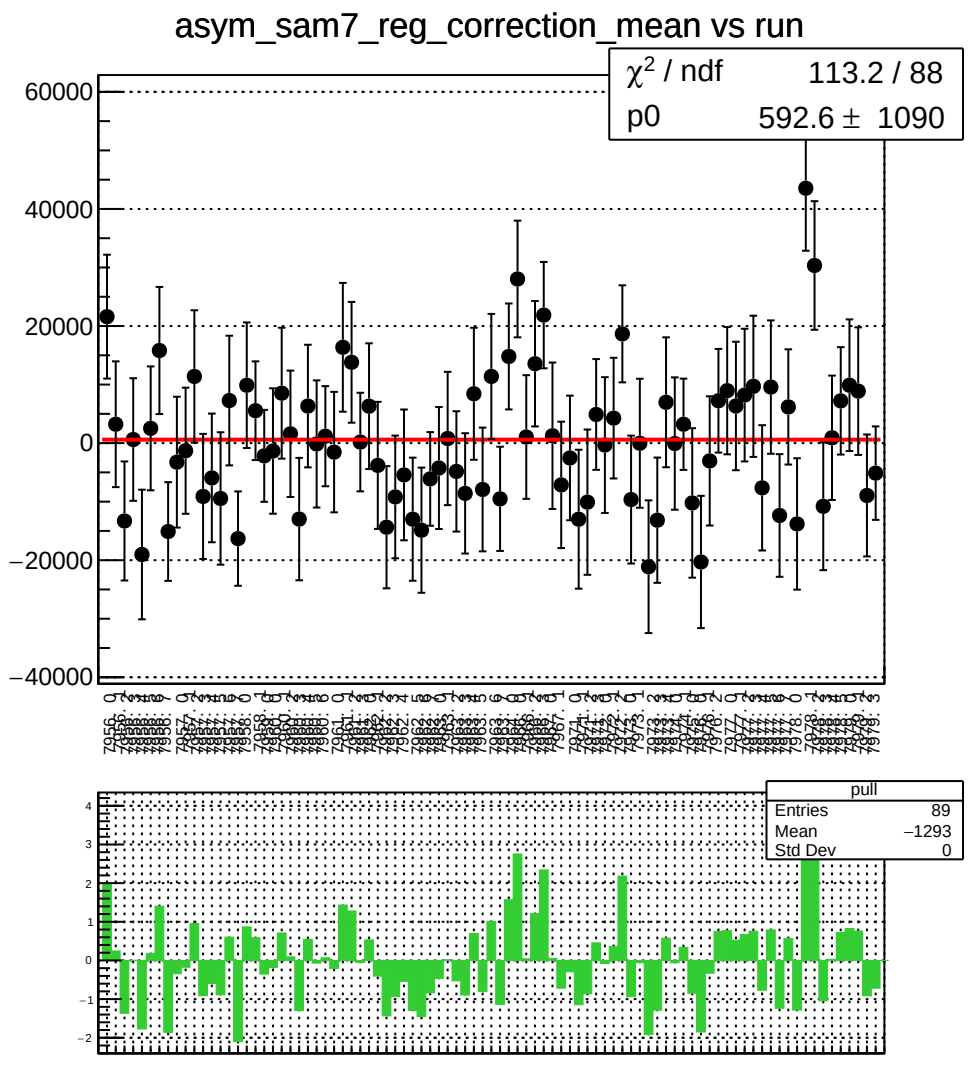

pull1D
Entries 89
Mean 0.03386
Std Dev 0.8576

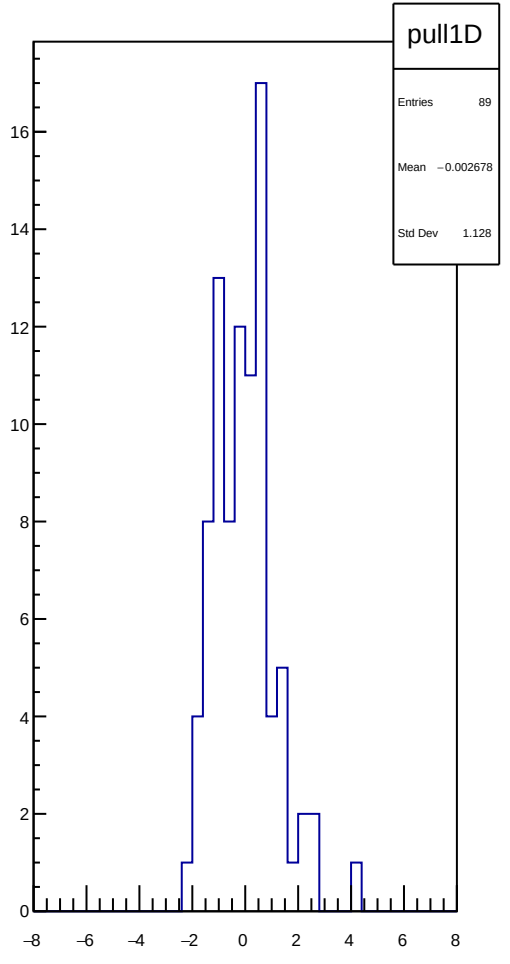

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
$\times 10^{-9}$
1.2
1
0.8
0.6
0.4
0.2
$\chi^2$ / ndf 6.538e+05 / 88
p0 1.16e−10 ± 1.088e−13

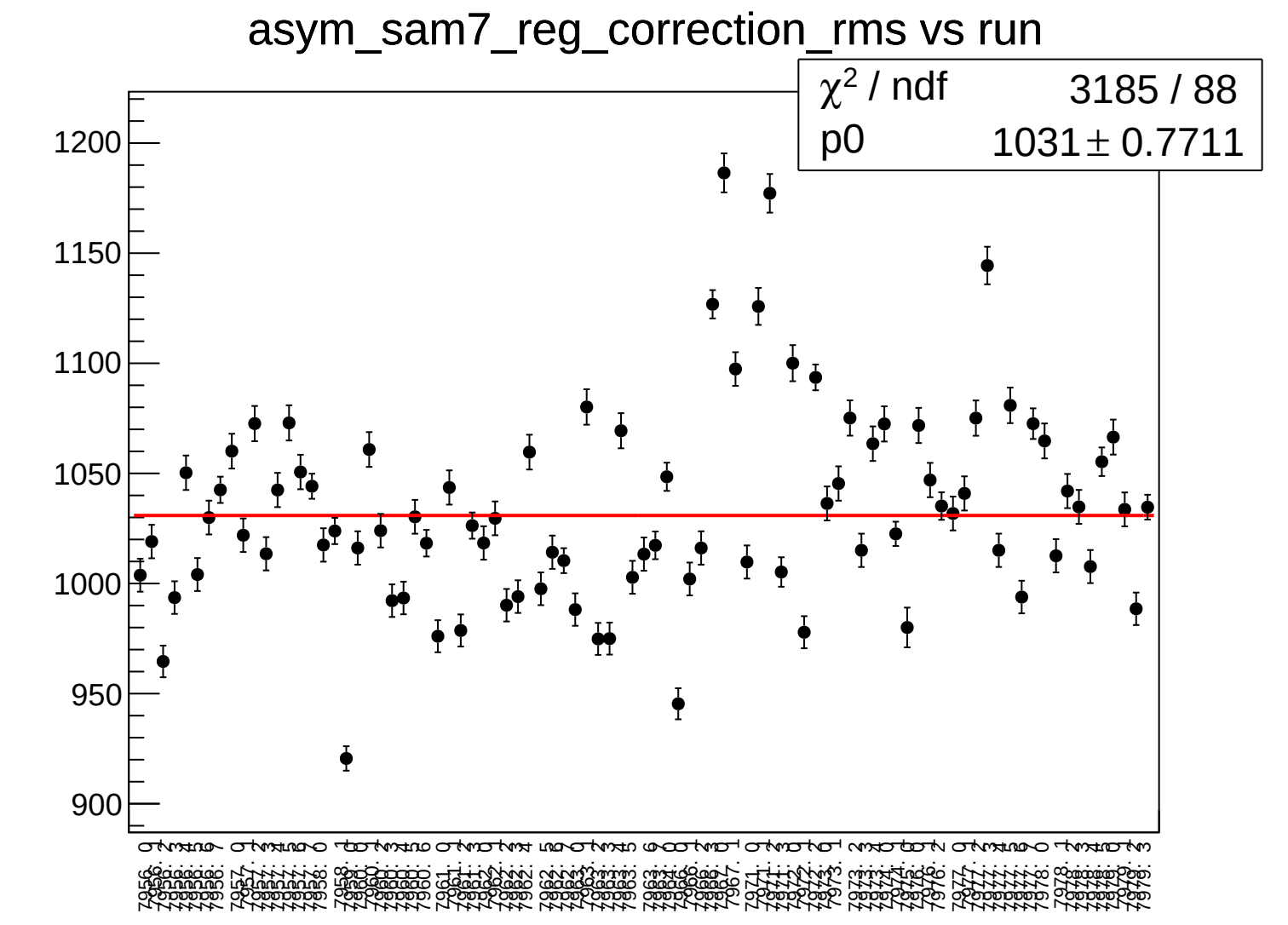

reg_asym_sam7_mean vs run
χ² / ndf 74.88 / 88
p0 3.408 ± 99.93
pull
Entries 89
Mean −45.63
Std Dev 0

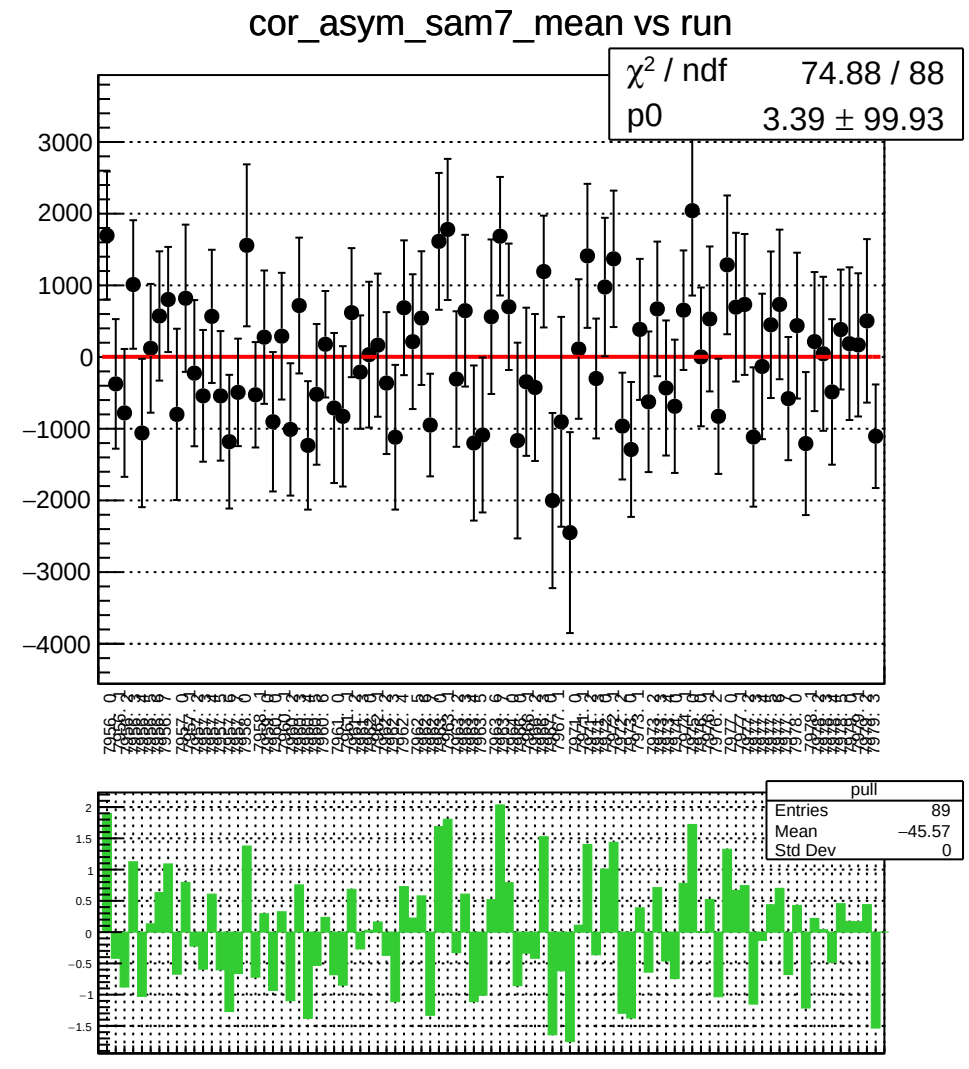

pull1D
Entries 89
Mean −0.003072
Std Dev 0.9172

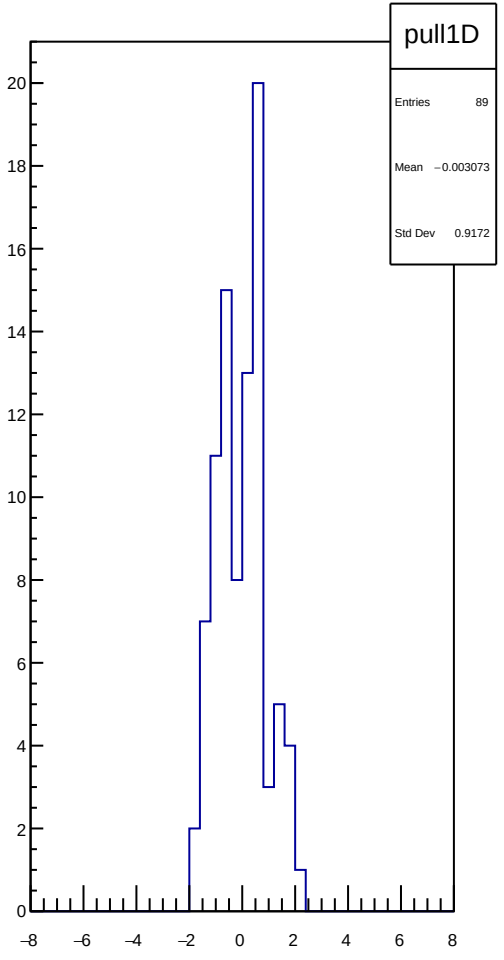

reg_asym_sam7_rms vs run
χ² / ndf 1.326e+04 / 88
p0 94.2 ± 0.07066
150
140
130
120
110
100
90
80

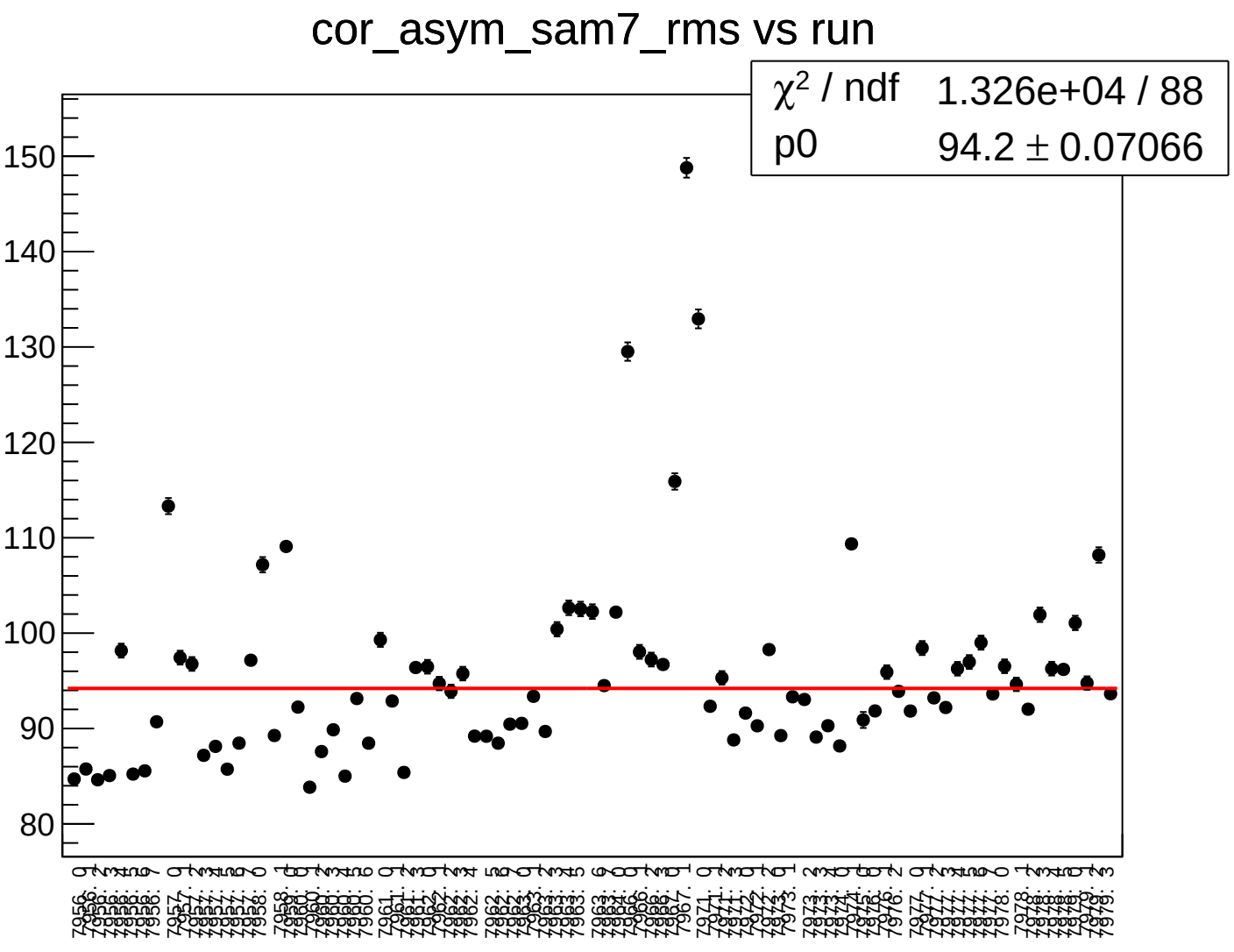

asym_sam7_reg_correction_mean vs run
χ² / ndf 113.2 / 88
p0 592.6 ± 1090
pull
Entries 89
Mean −1293
Std Dev 0

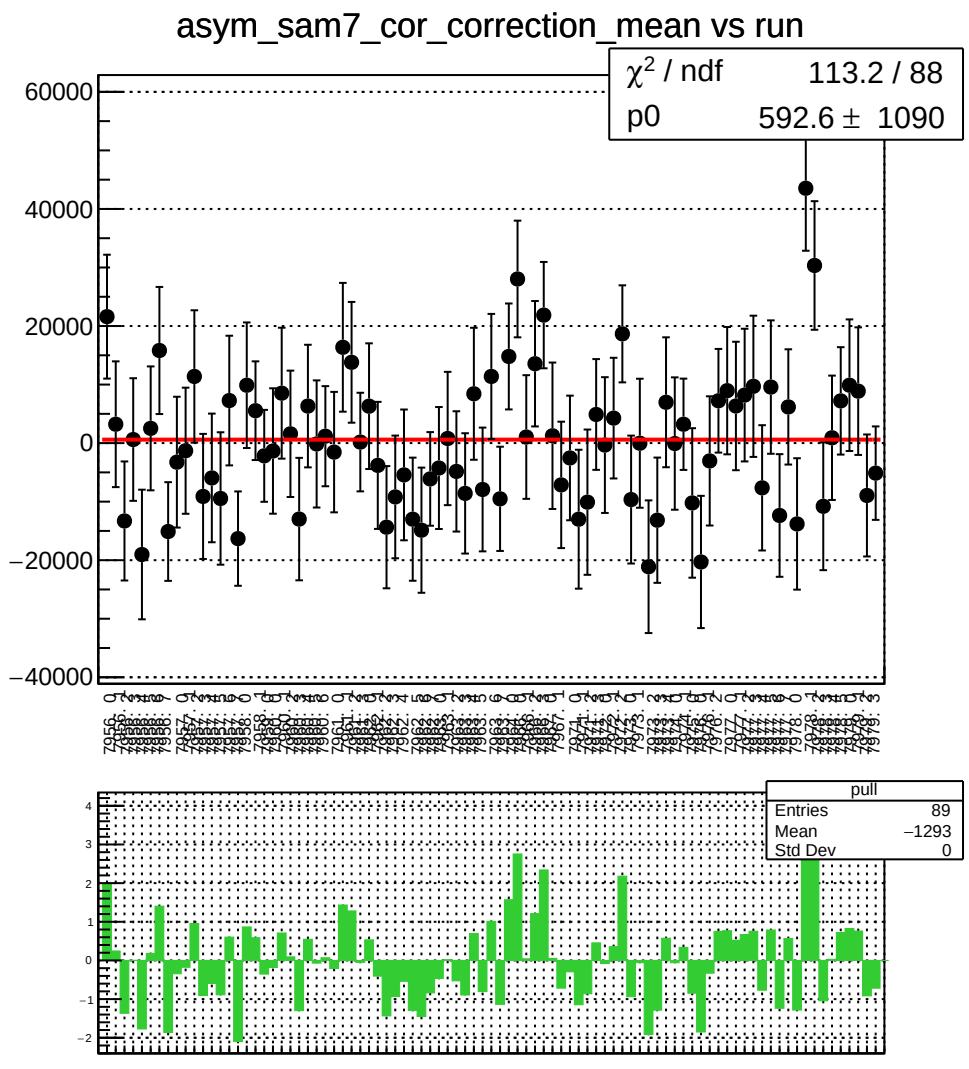

pull1D
Entries 89
Mean −0.002678
Std Dev 1.128

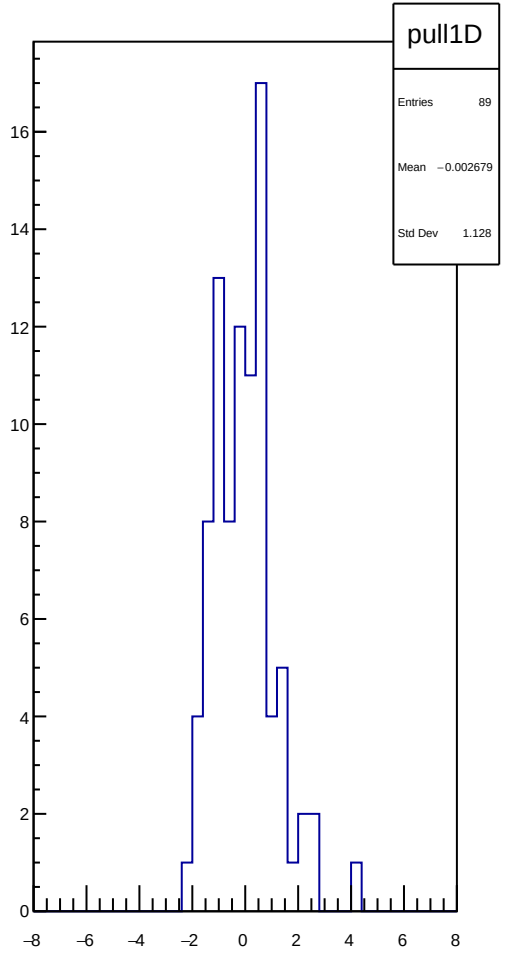

asym_sam7_reg_correction_rms vs run
χ² / ndf 3185 / 88
p0 1031 ± 0.7711
1200
1150
1100
1050
1000
950
900

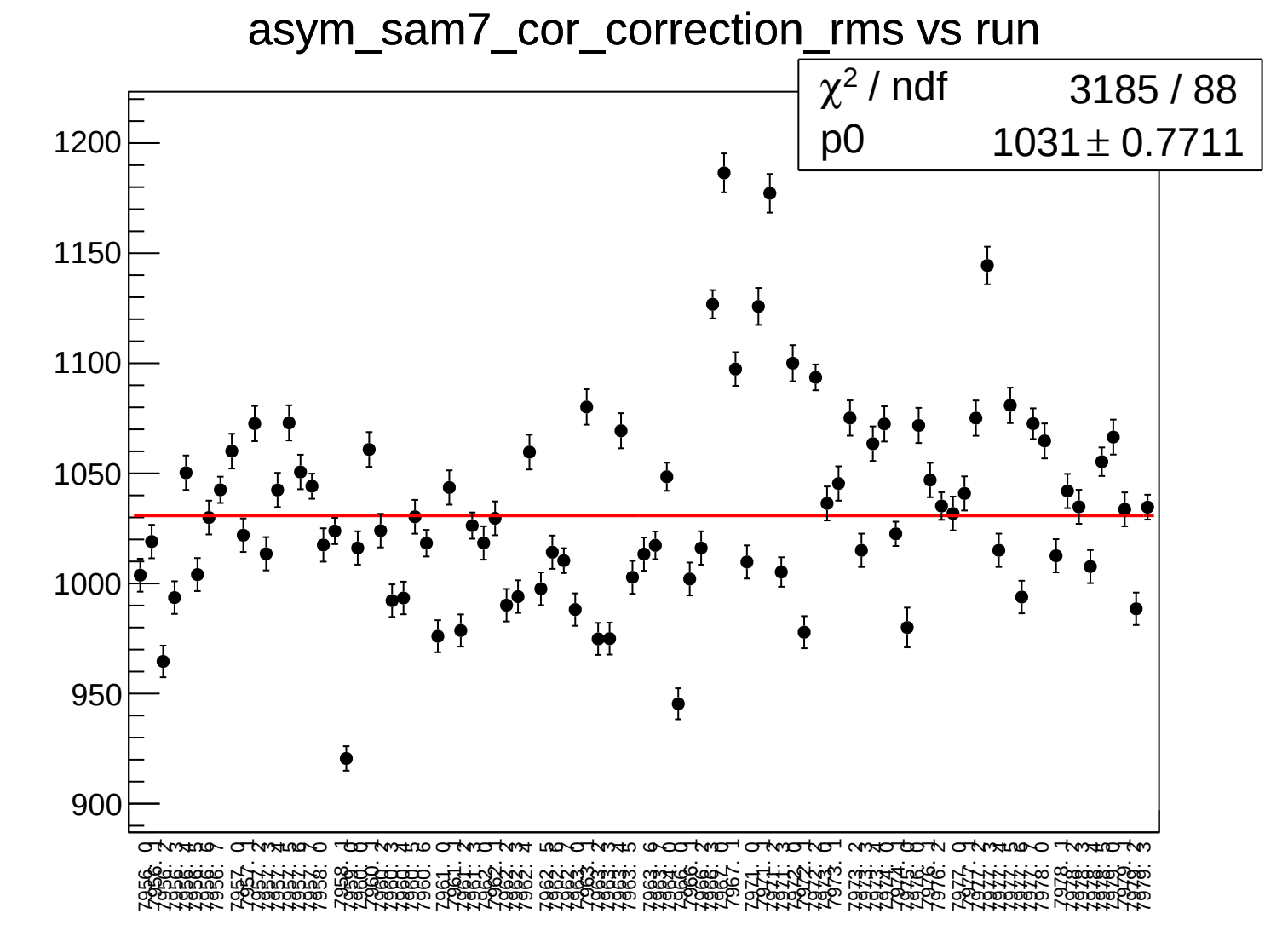

cor_asym_sam7_mean vs run
χ² / ndf 74.88 / 88
p0 3.39 ± 99.93
pull
Entries 89
Mean −45.57
Std Dev 0

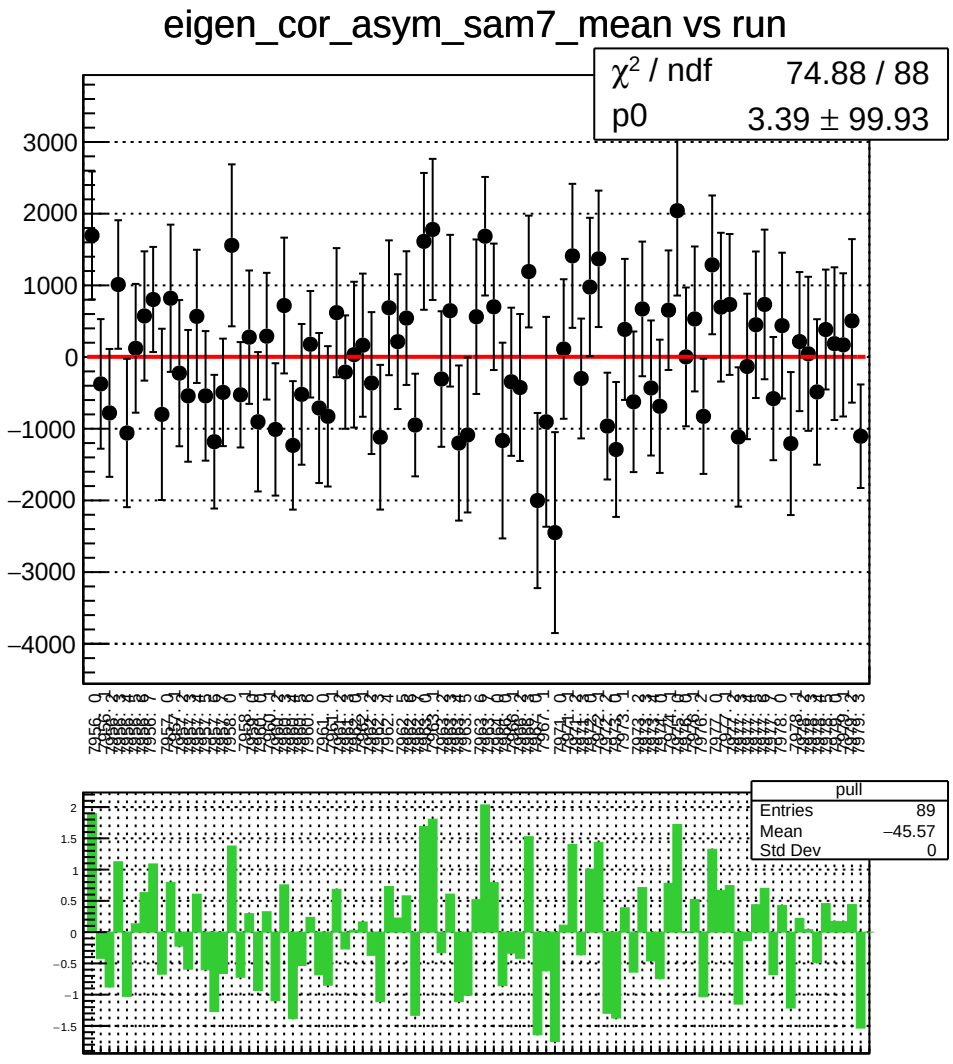

pull1D
Entries 89
Mean −0.003073
Std Dev 0.9172

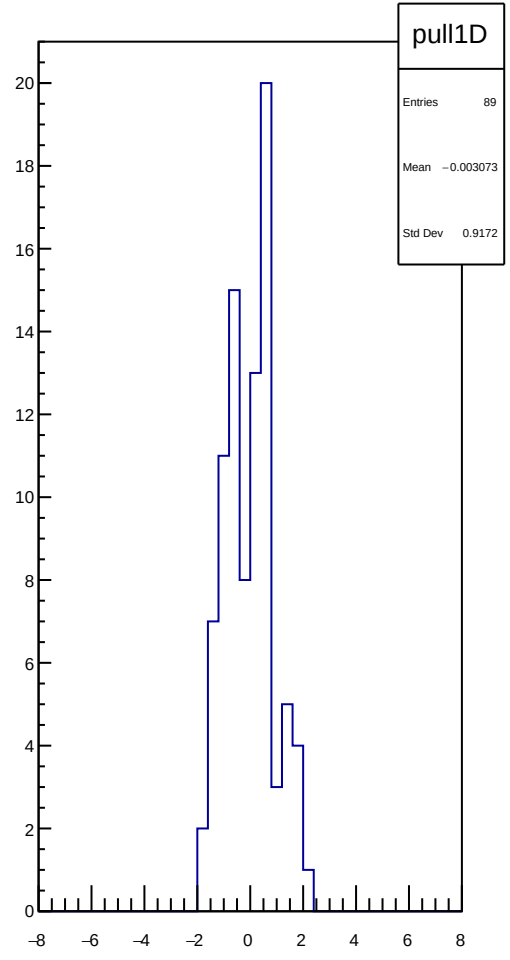

cor_asym_sam7_rms vs run
χ² / ndf 1.326e+04 / 88
p0 94.2 ± 0.07066
150
140
130
120
110
100
90
80

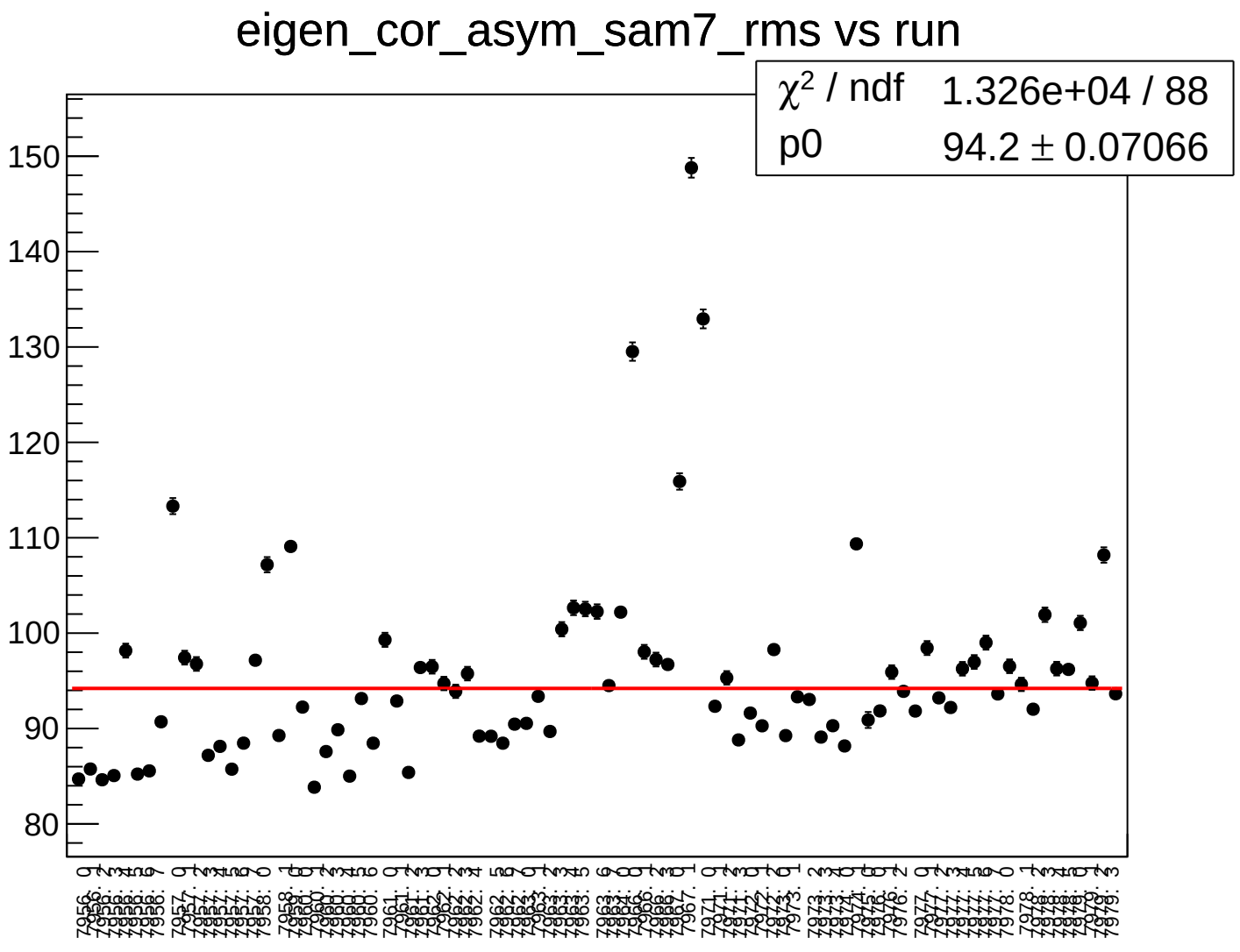

asym_sam7_cor_correction_mean vs run
χ² / ndf 113.2 / 88
p0 592.6 ± 1090
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −1293
Std Dev 0
4
3
2
1
0
−1
−2

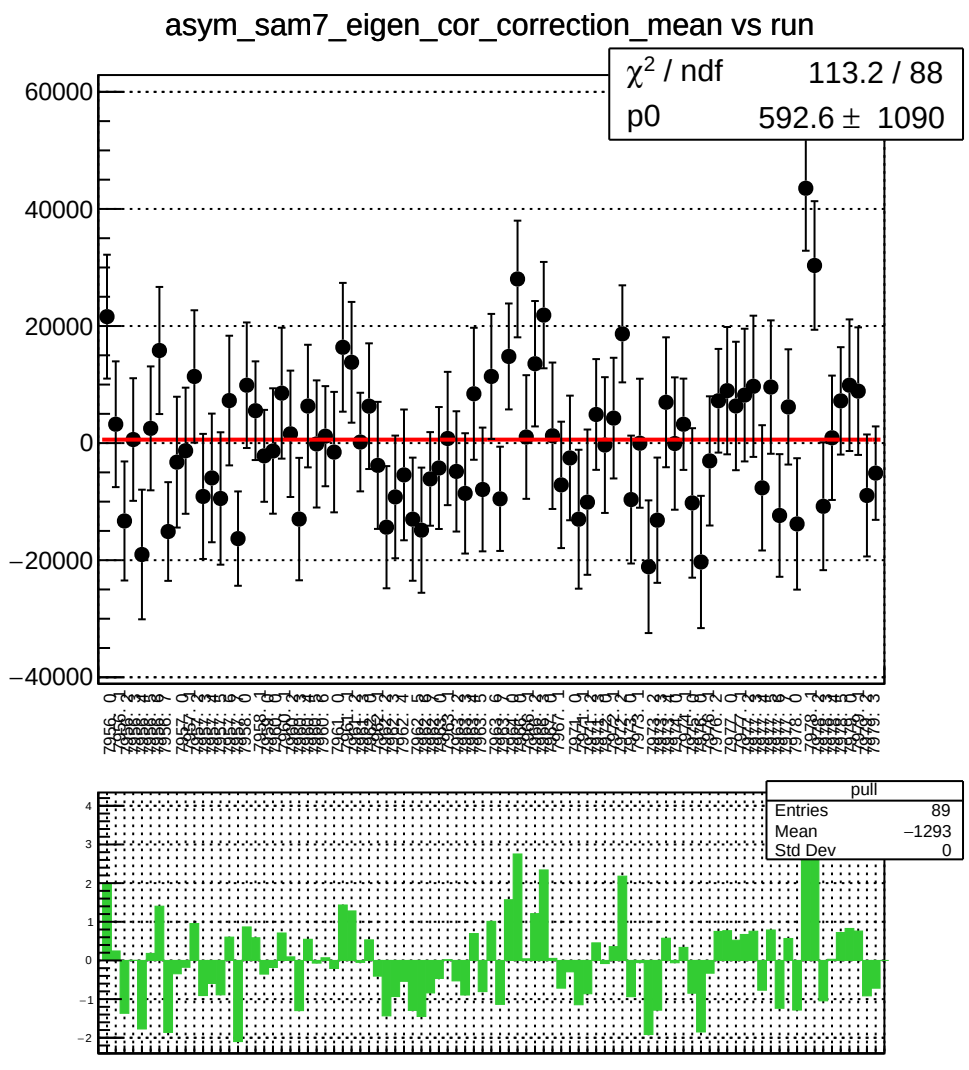

pull1D
Entries 89
Mean −0.002679
Std Dev 1.128
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

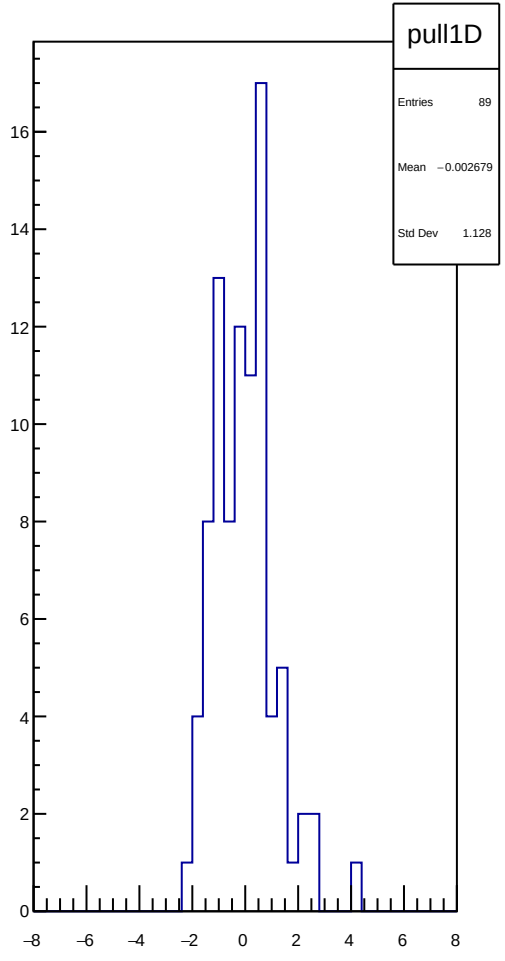

asym_sam7_cor_correction_rms vs run
χ² / ndf 3185 / 88
p0 1031 ± 0.7711
1200
1150
1100
1050
1000
950
900

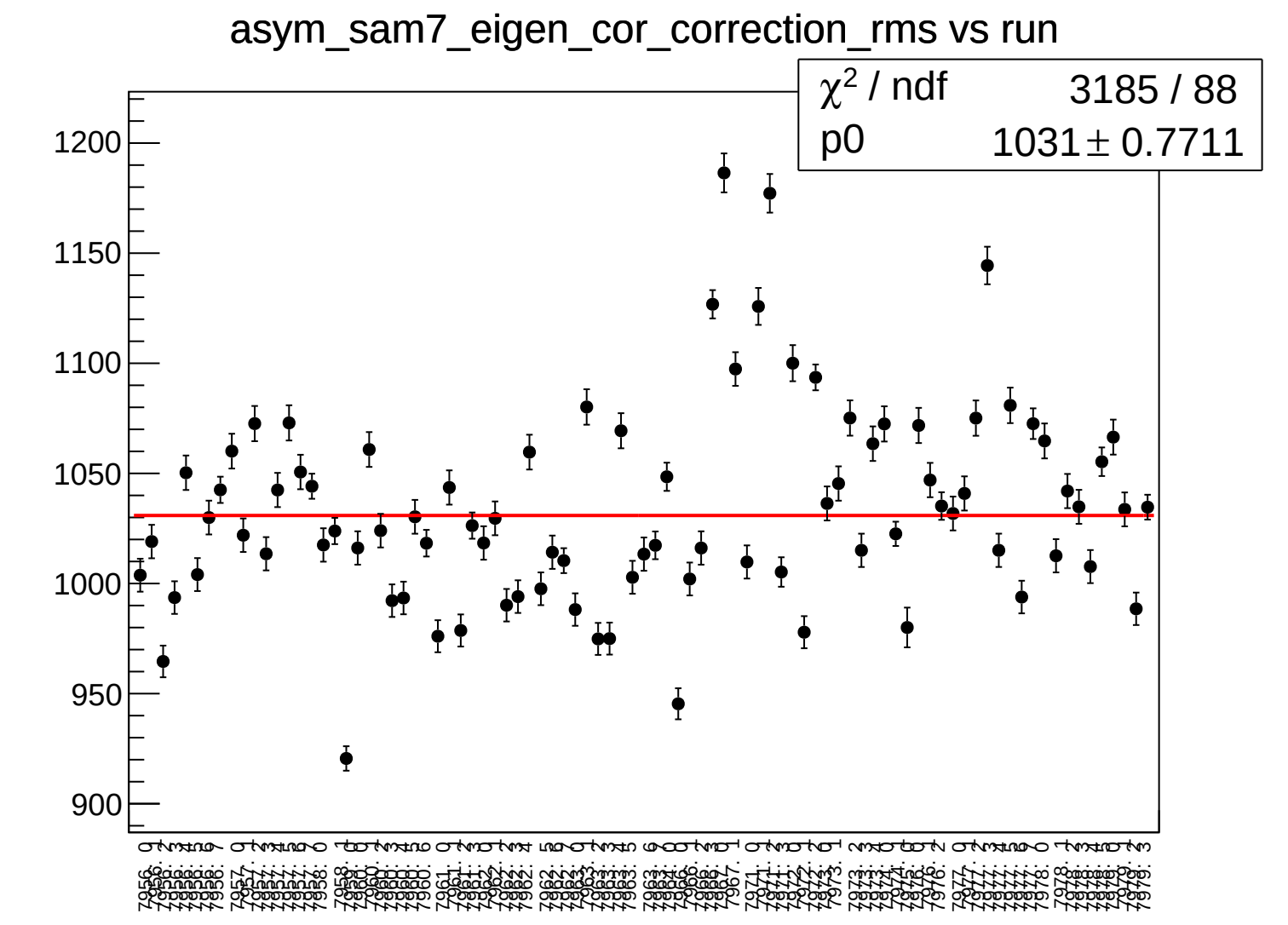

eigen_cor_asym_sam7_mean vs run
χ² / ndf 74.88 / 88
p0 3.39 ± 99.93
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean −45.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

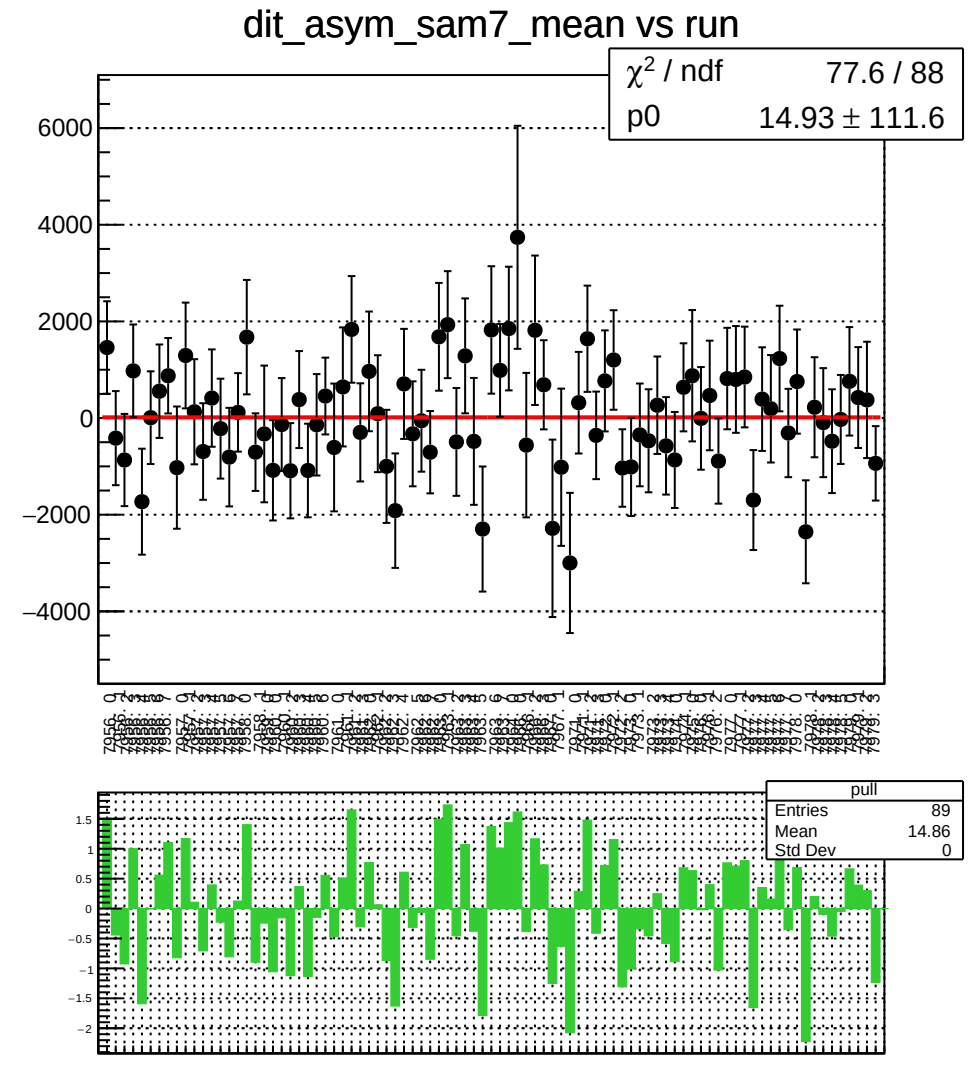

pull1D
Entries 89
Mean −0.003073
Std Dev 0.9172
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

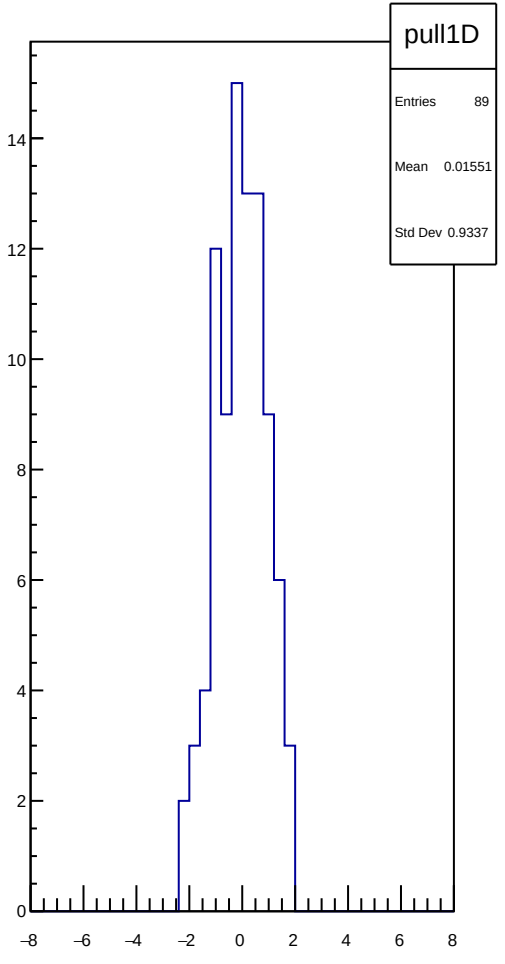

eigen_cor_asym_sam7_rms vs run
$\chi^2$ / ndf 1.326e+04 / 88
p0 94.2 ± 0.07066
150
140
130
120
110
100
90
80

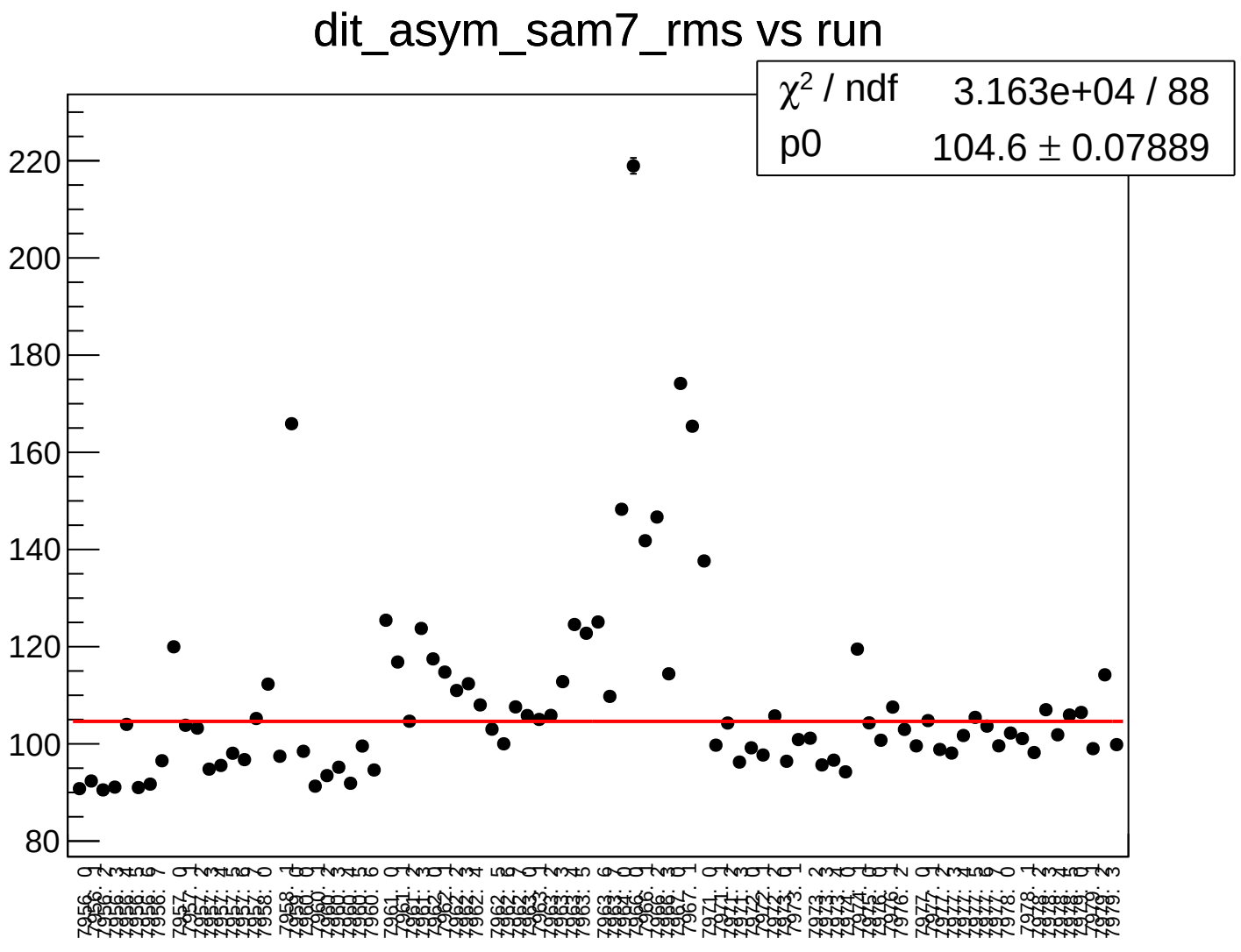

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 113.2 / 88
p0 592.6 ± 1090
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −1293
Std Dev 0
4
3
2
1
0
−1
−2

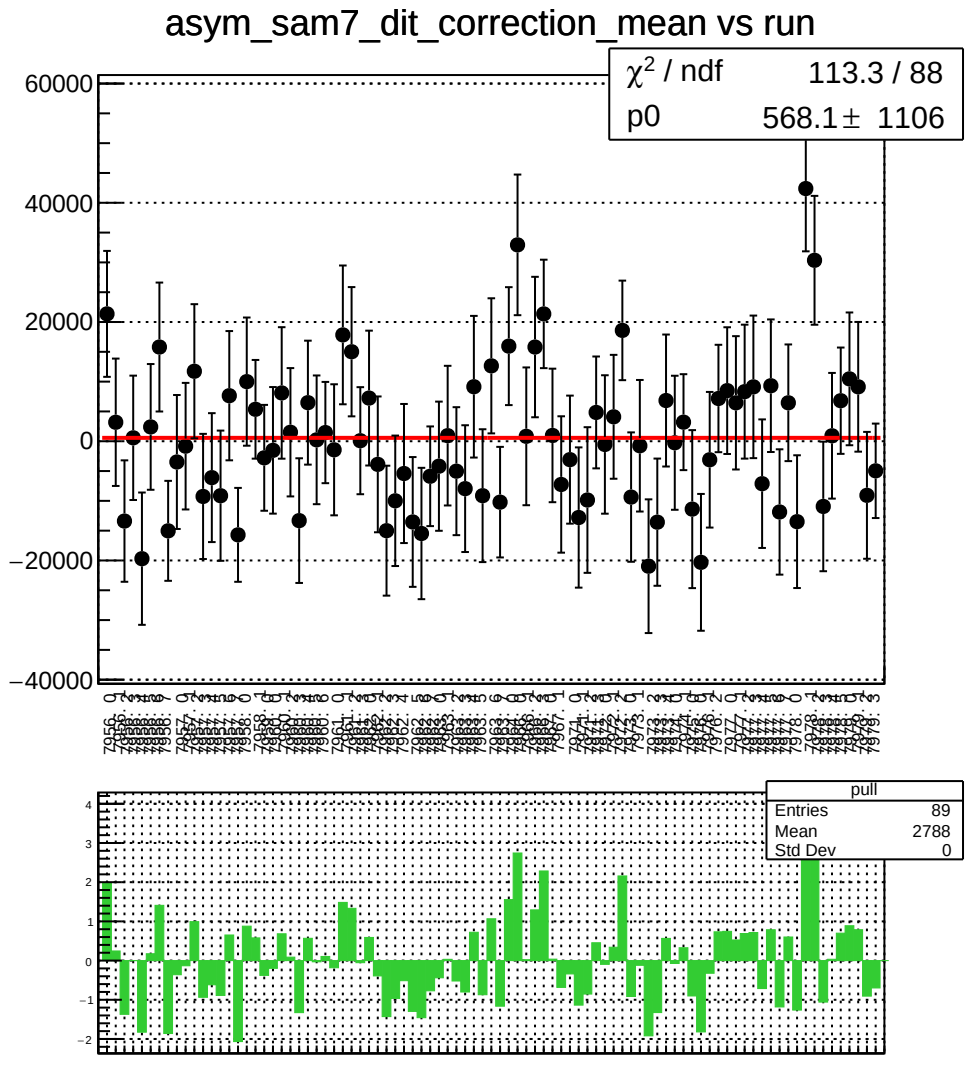

pull1D
Entries 89
Mean −0.002679
Std Dev 1.128
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

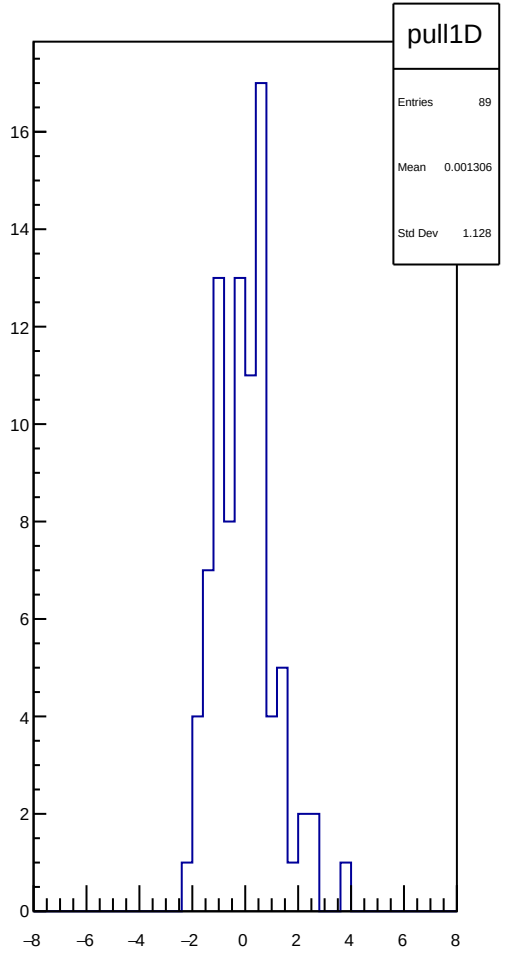

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 3185 / 88
p0 1031 ± 0.7711
1200
1150
1100
1050
1000
950
900

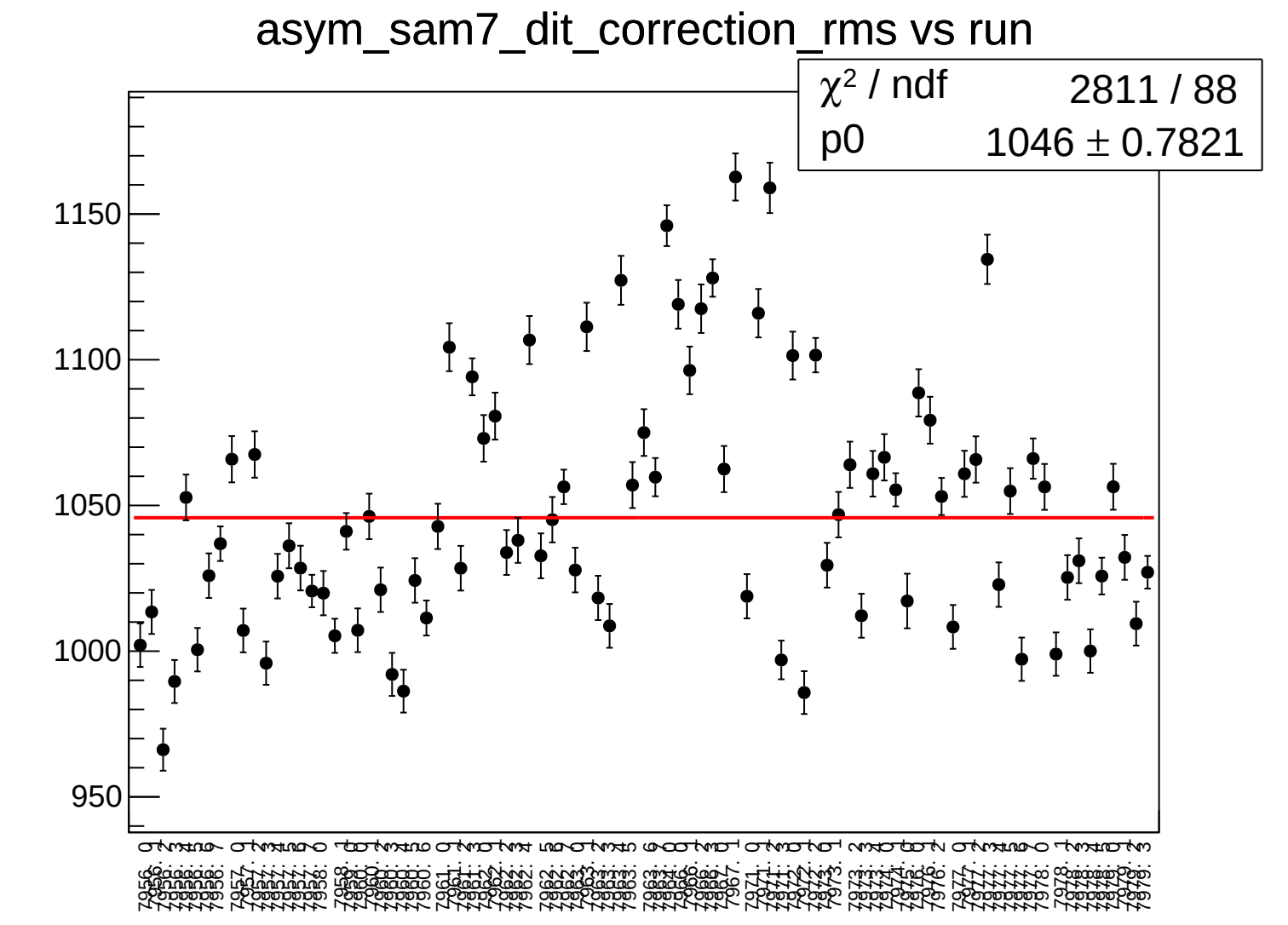

dit_asym_sam7_mean vs run
χ² / ndf 77.6 / 88
p0 14.93 ± 111.6
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 14.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

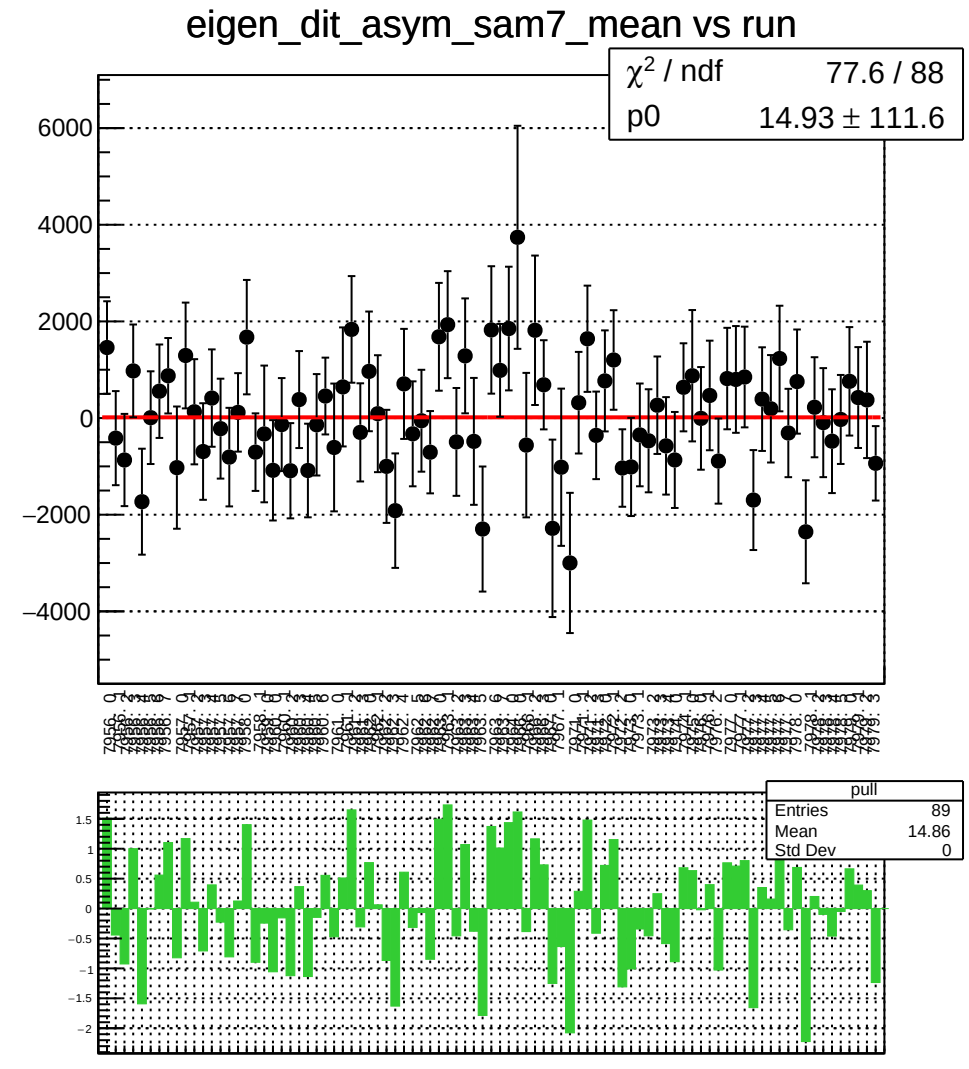

pull1D
Entries 89
Mean 0.01551
Std Dev 0.9337
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

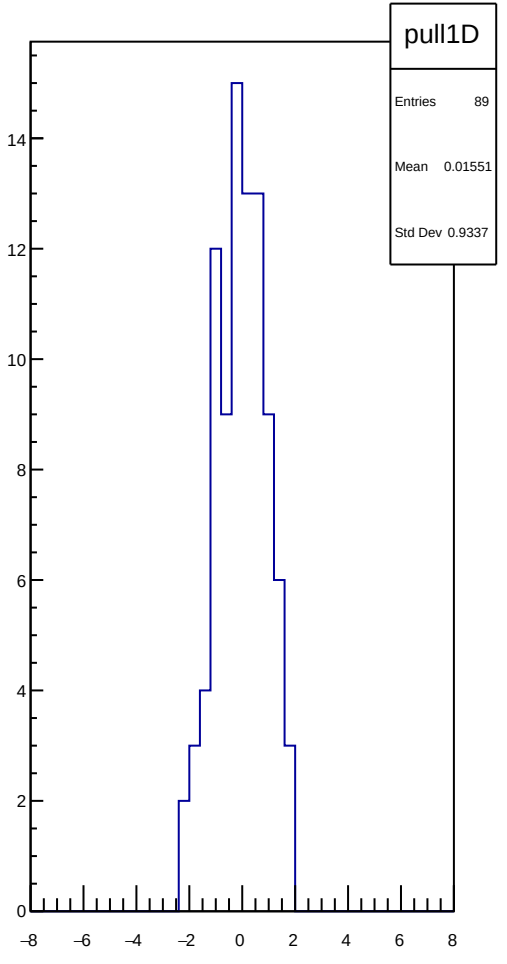

dit_asym_sam7_rms vs run
$\chi^2$ / ndf 3.163e+04 / 88
p0 104.6 ± 0.07889
220
200
180
160
140
120
100
80

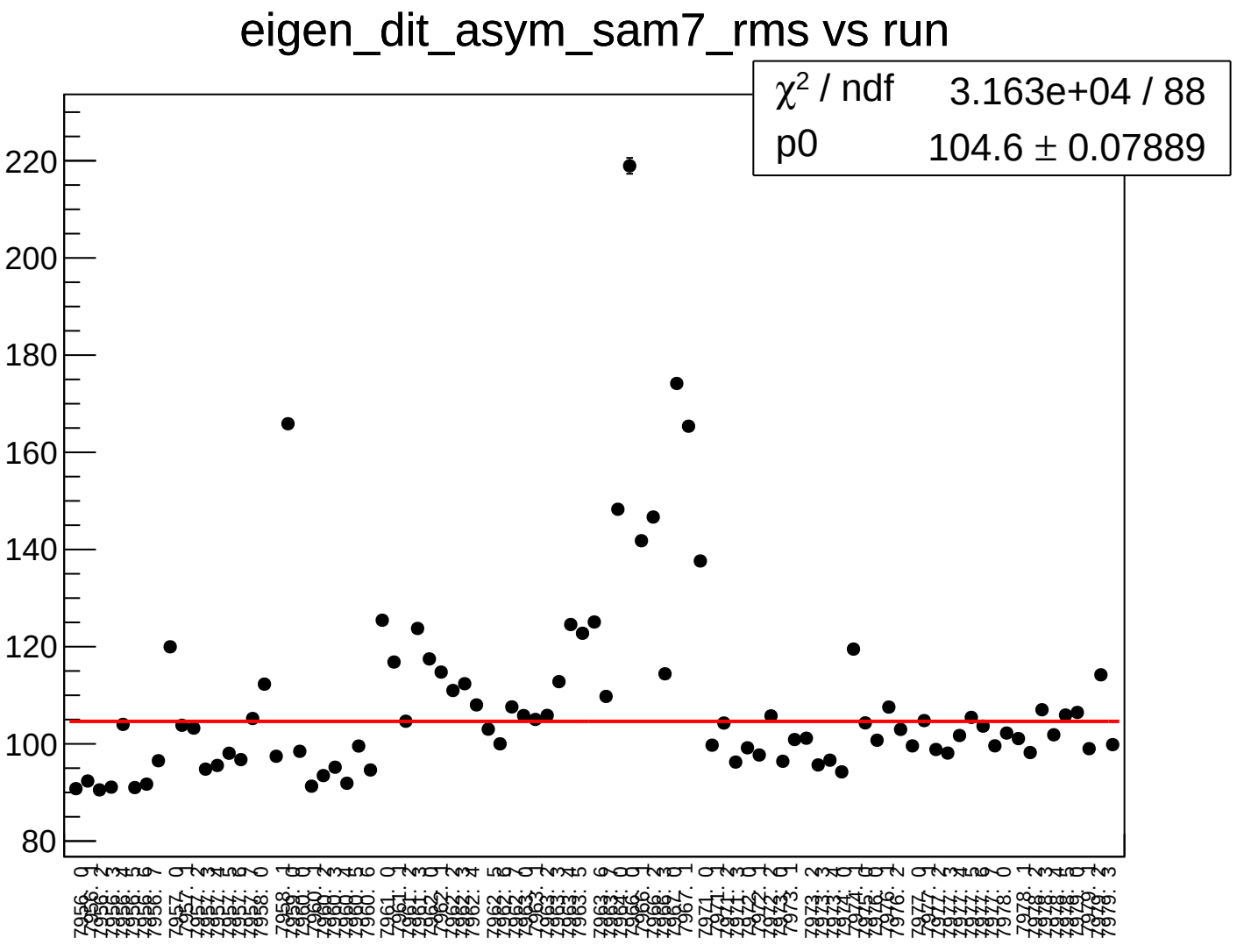

asym_sam7_dit_correction_mean vs run
χ² / ndf 113.3 / 88
p0 568.1 ± 1106
pull
Entries 89
Mean 2788
Std Dev 0

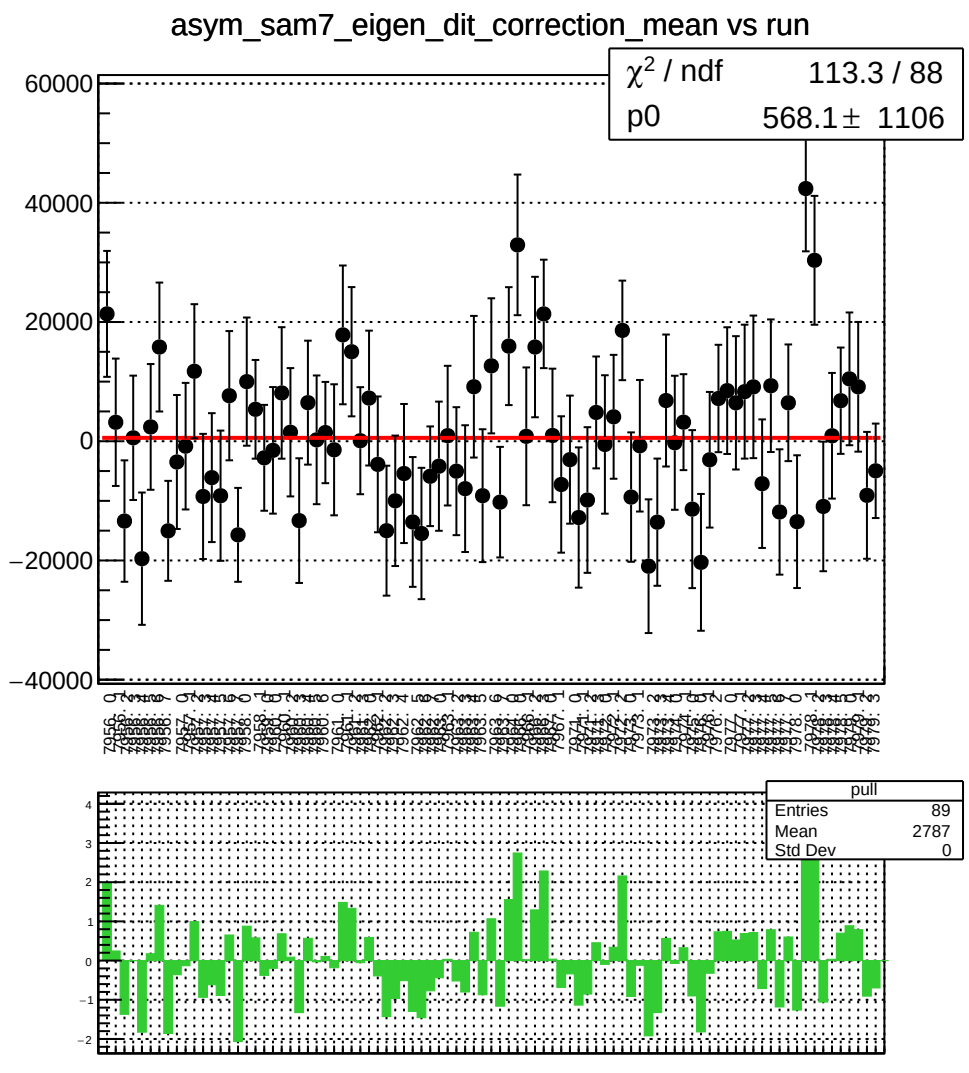

pull1D
Entries 89
Mean 0.001306
Std Dev 1.128

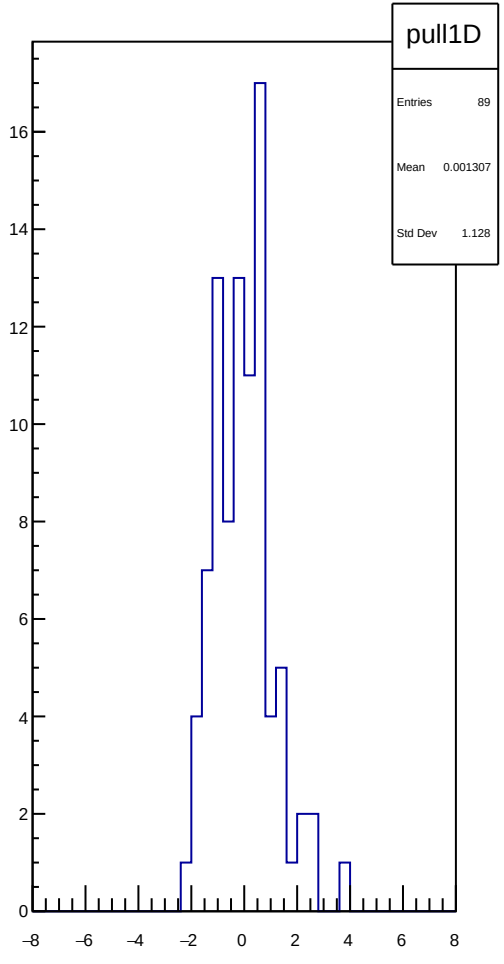

asym_sam7_dit_correction_rms vs run
χ² / ndf 2811 / 88
p0 1046 ± 0.7821
1150
1100
1050
1000
950

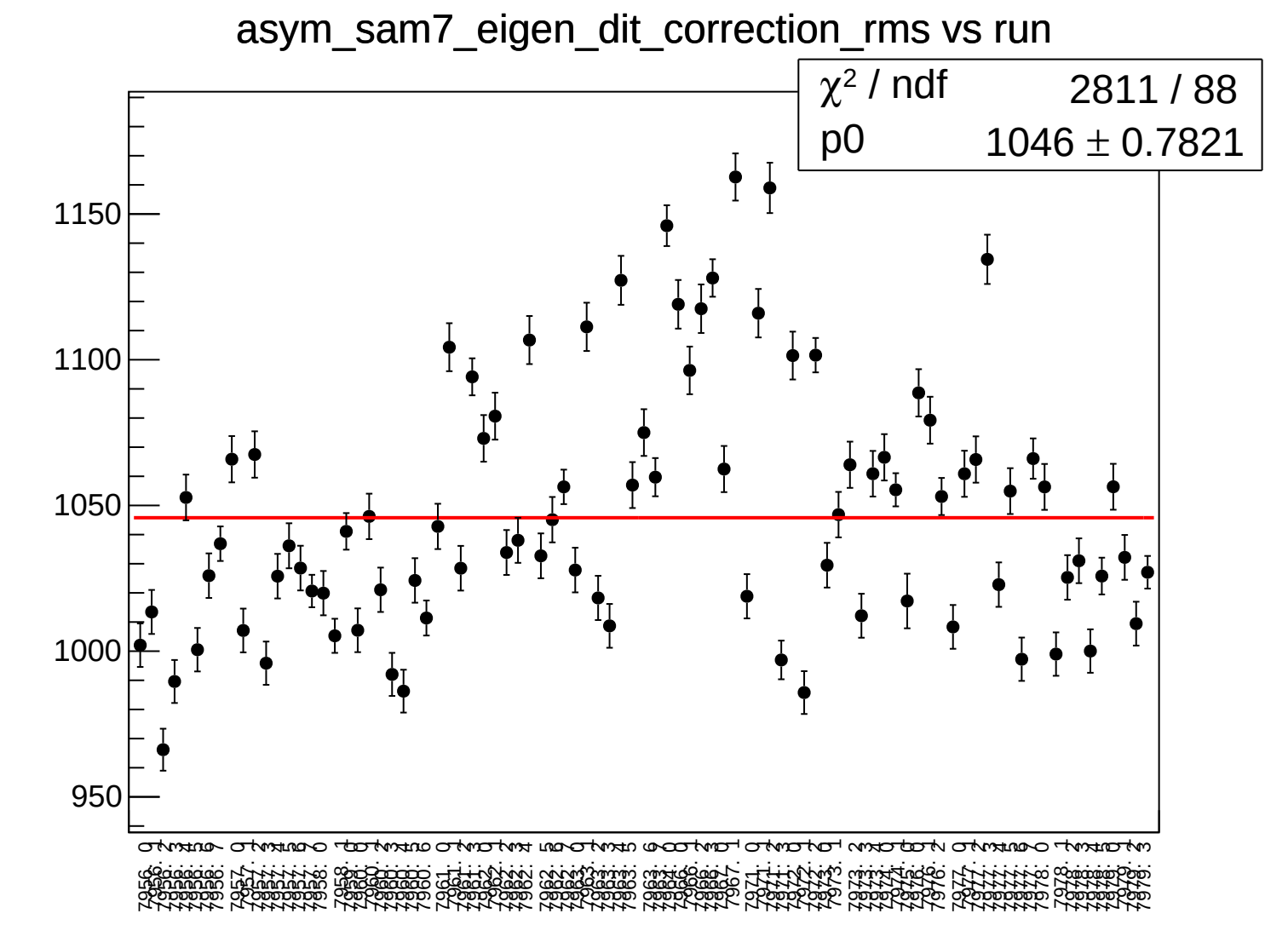

eigen_dit_asym_sam7_mean vs run
χ² / ndf 77.6 / 88
p0 14.93 ± 111.6
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 14.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

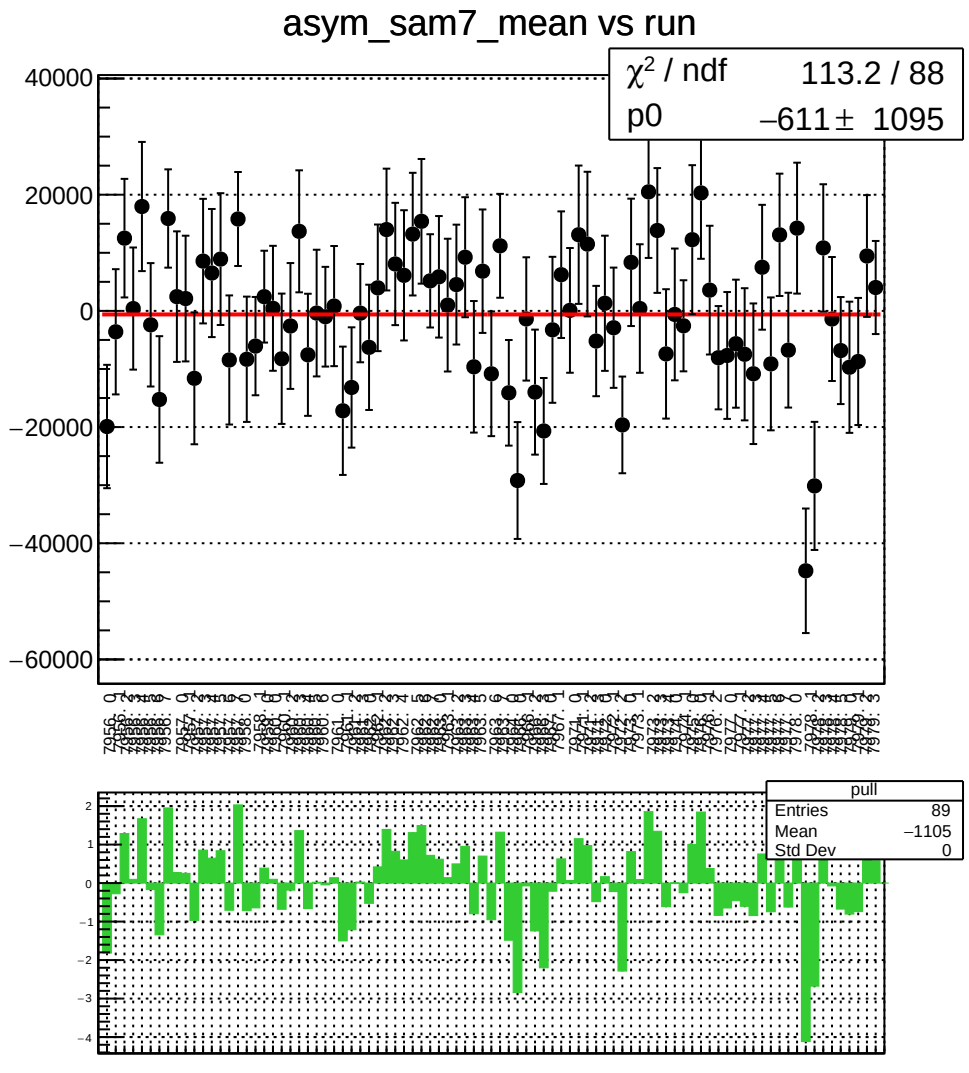

pull1D
Entries 89
Mean 0.01551
Std Dev 0.9337
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

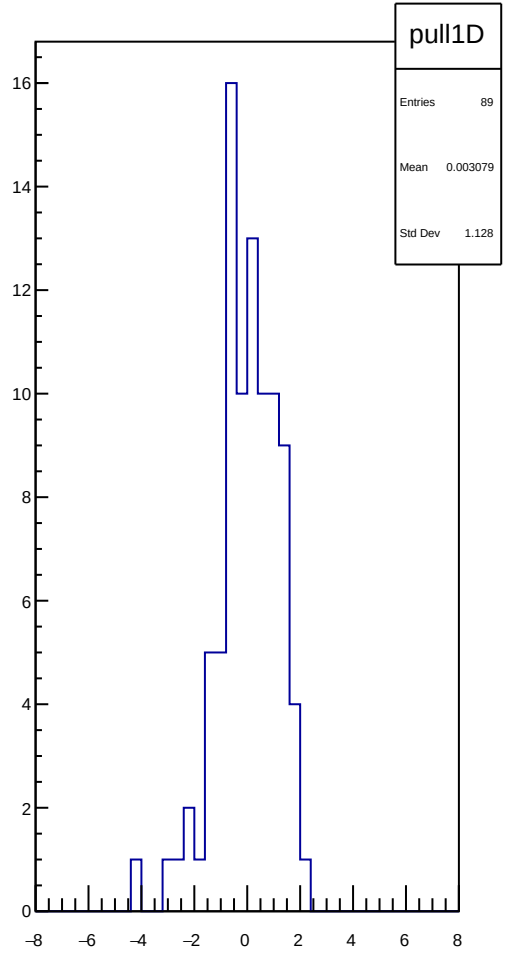

eigen_dit_asym_sam7_rms vs run
$\chi^2$ / ndf 3.163e+04 / 88
p0 104.6 ± 0.07889
220
200
180
160
140
120
100
80

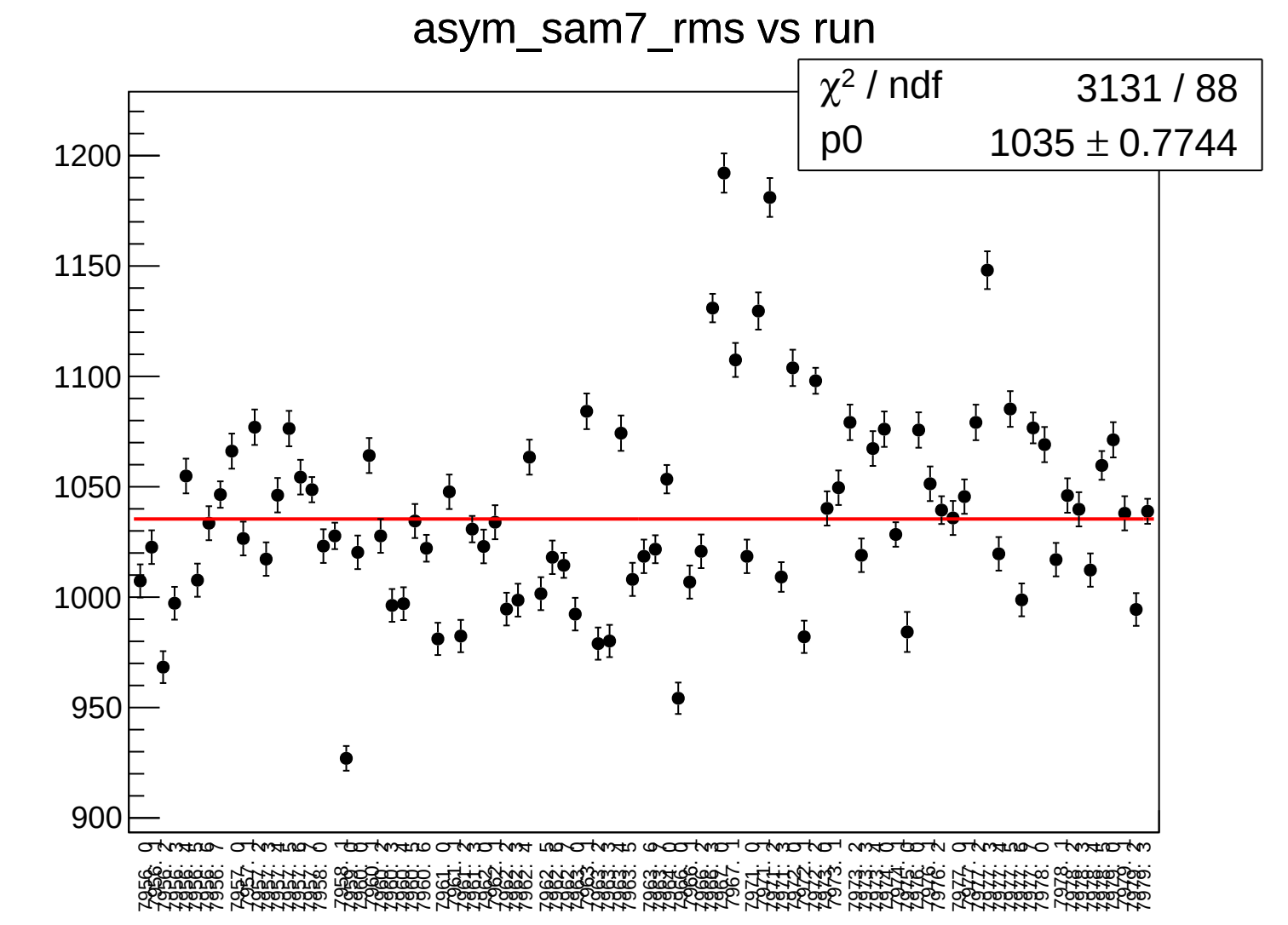

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 113.3 / 88
p0 568.1 ± 1106
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 2787
Std Dev 0
4
3
2
1
0
−1
−2

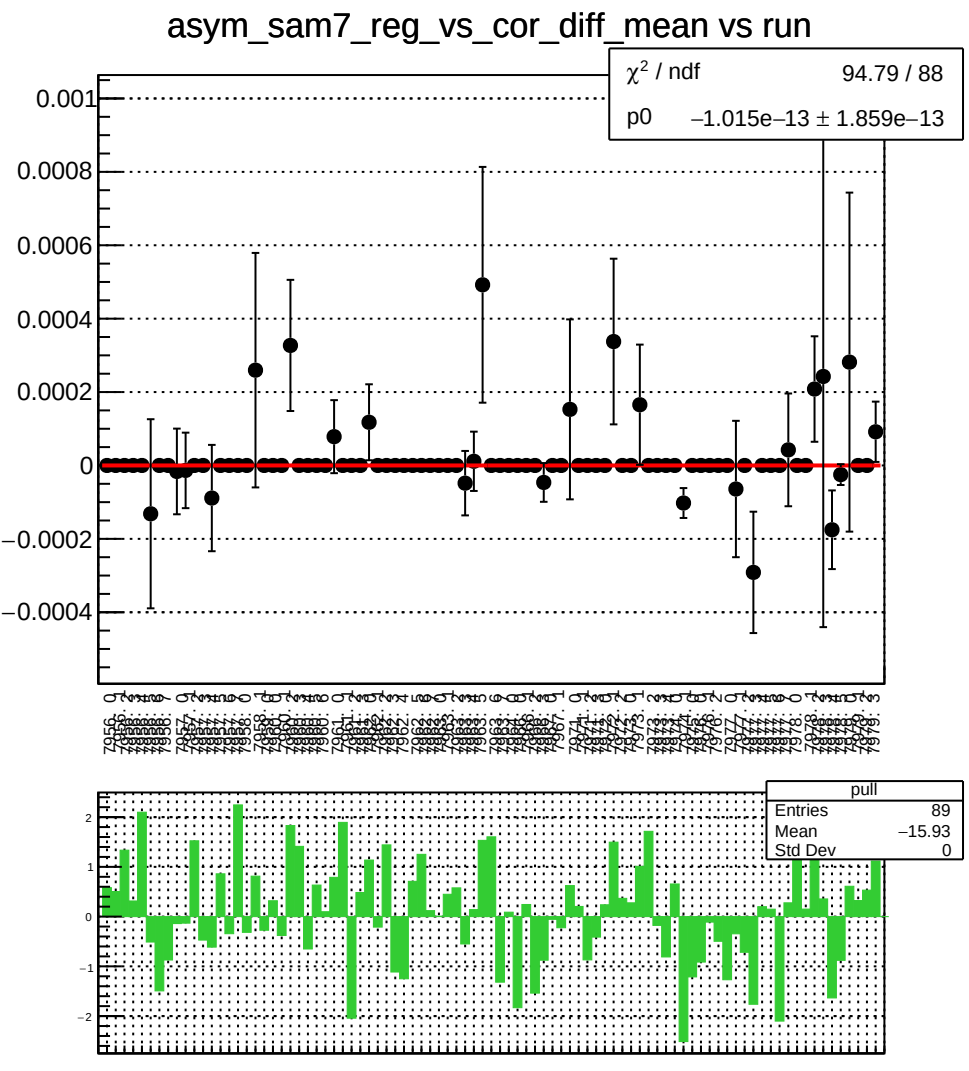

pull1D
Entries 89
Mean 0.001307
Std Dev 1.128
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

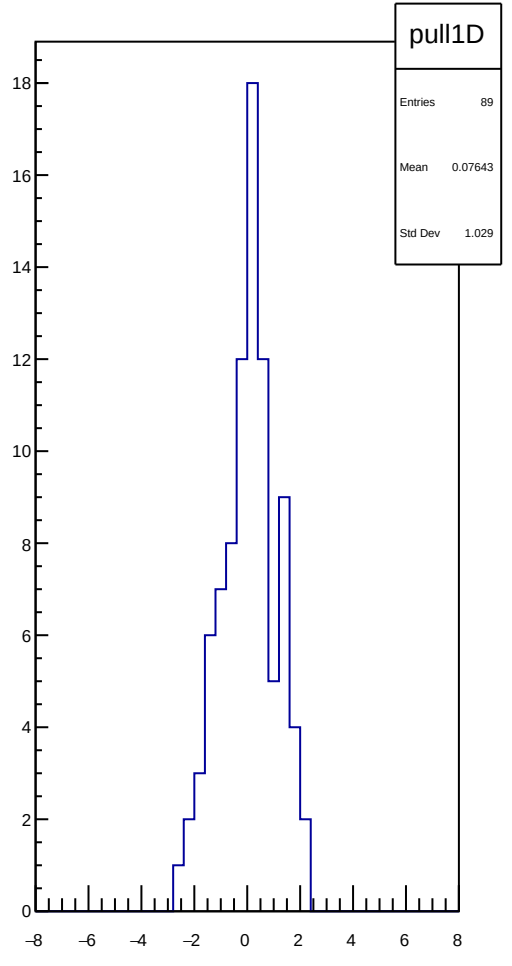

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 2811 / 88
p0 1046 ± 0.7821
1150
1100
1050
1000
950

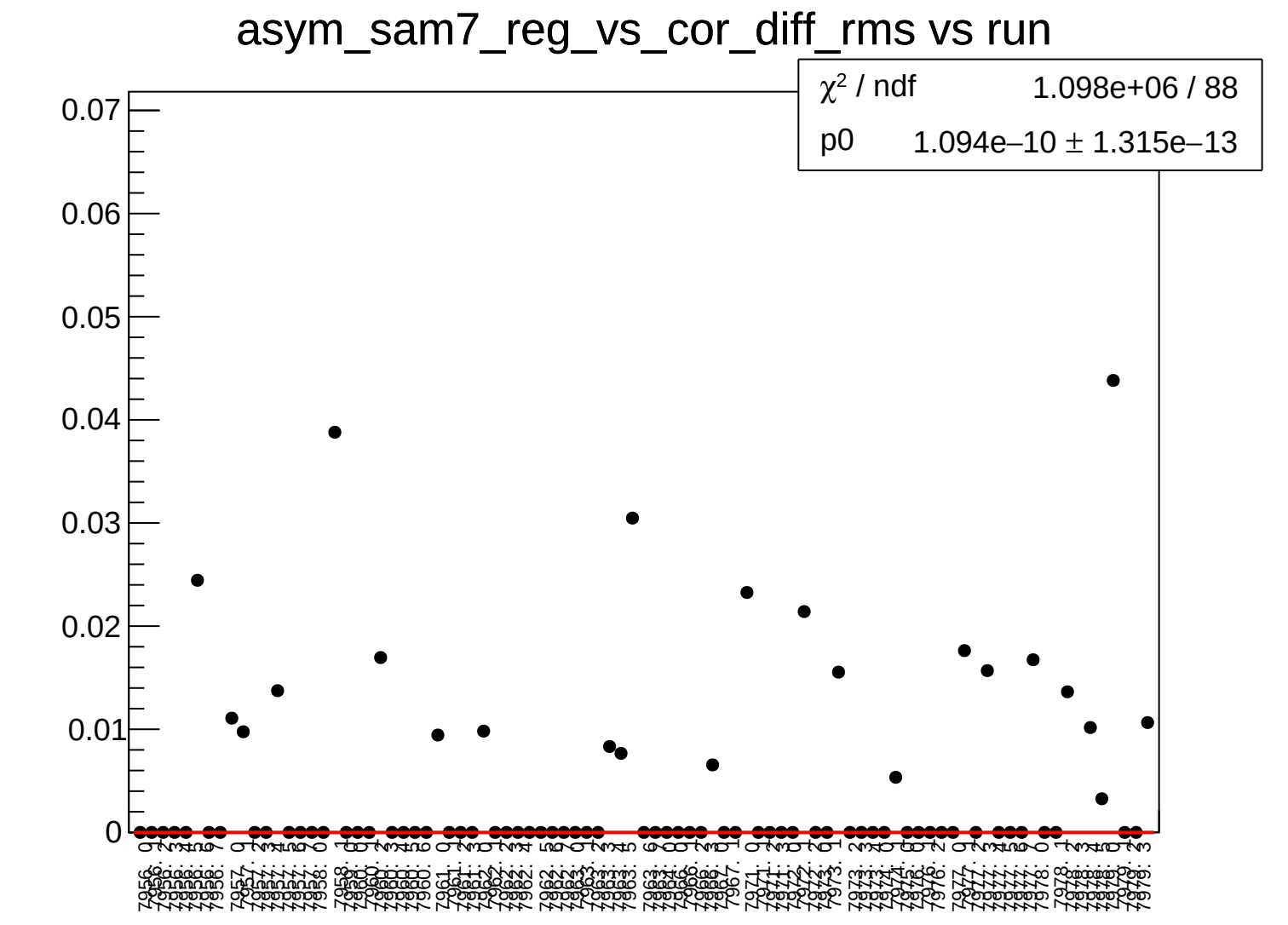

asym_sam7_mean vs run
χ² / ndf 113.2 / 88
p0 −611 ± 1095
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1105
Std Dev 0
2
1
0
−1
−2
−3
−4

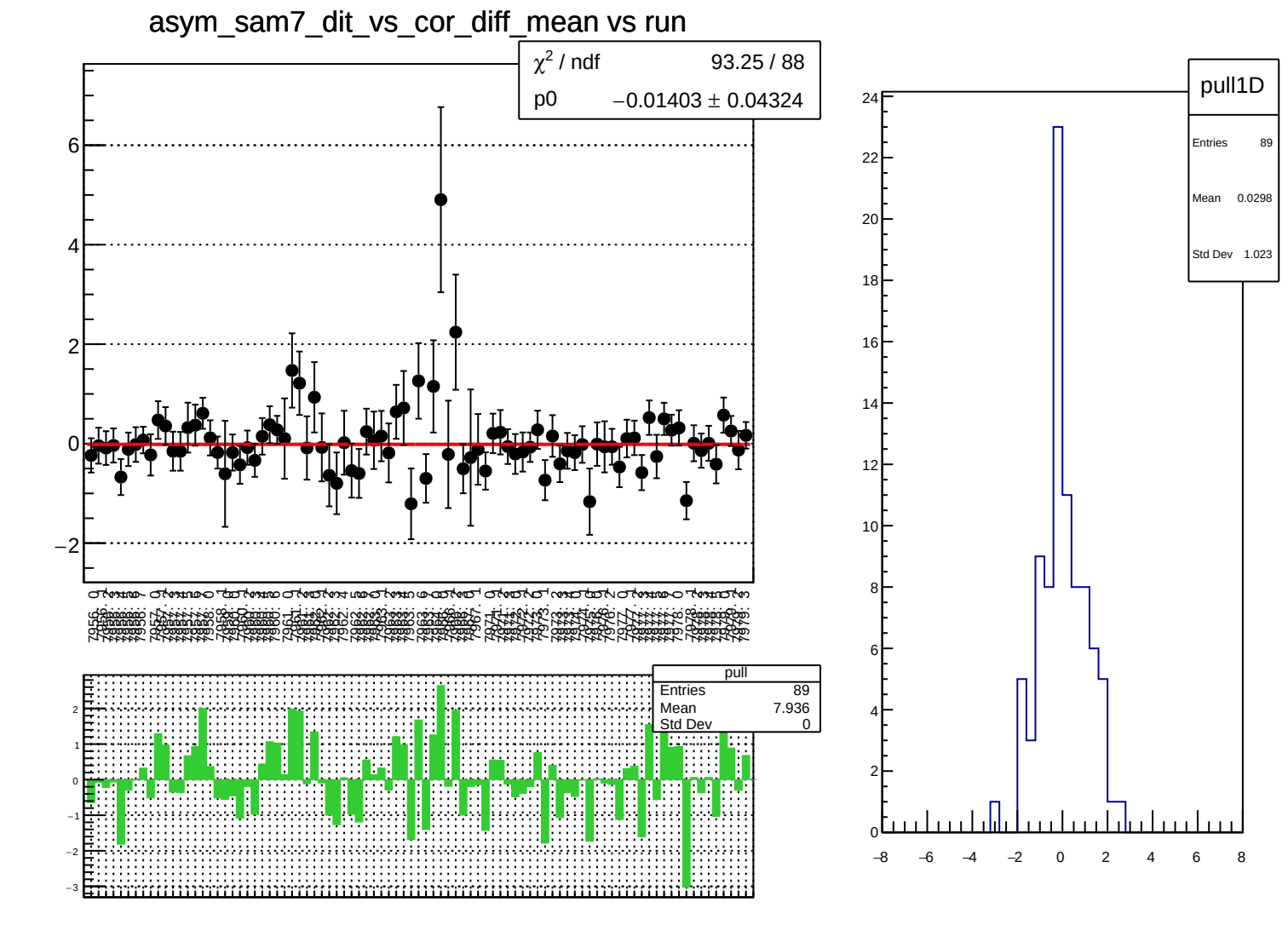

pull1D
Entries 89
Mean 0.003079
Std Dev 1.128
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

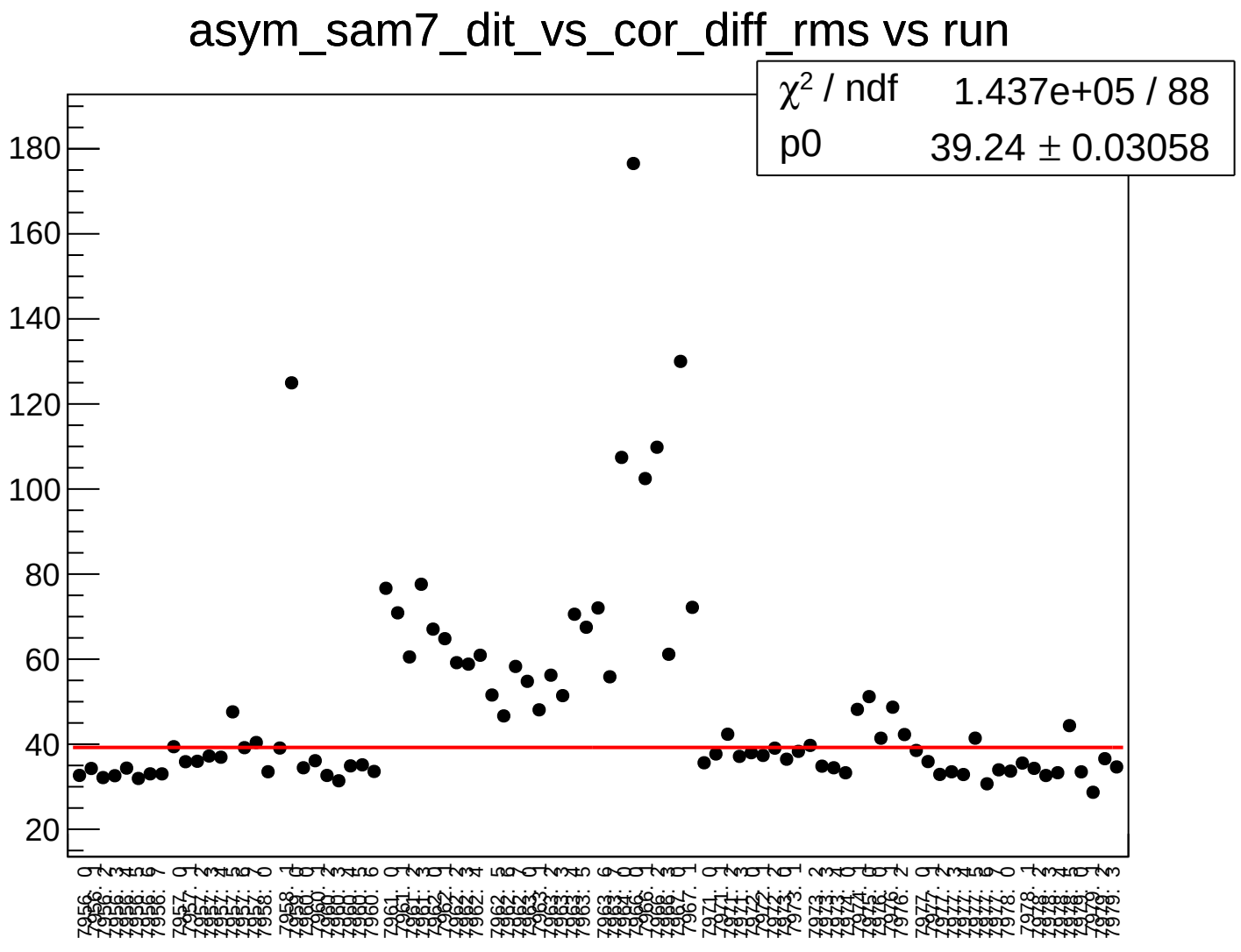

asym_sam7_rms vs run
χ² / ndf 3131 / 88
p0 1035 ± 0.7744
1200
1150
1100
1050
1000
950
900

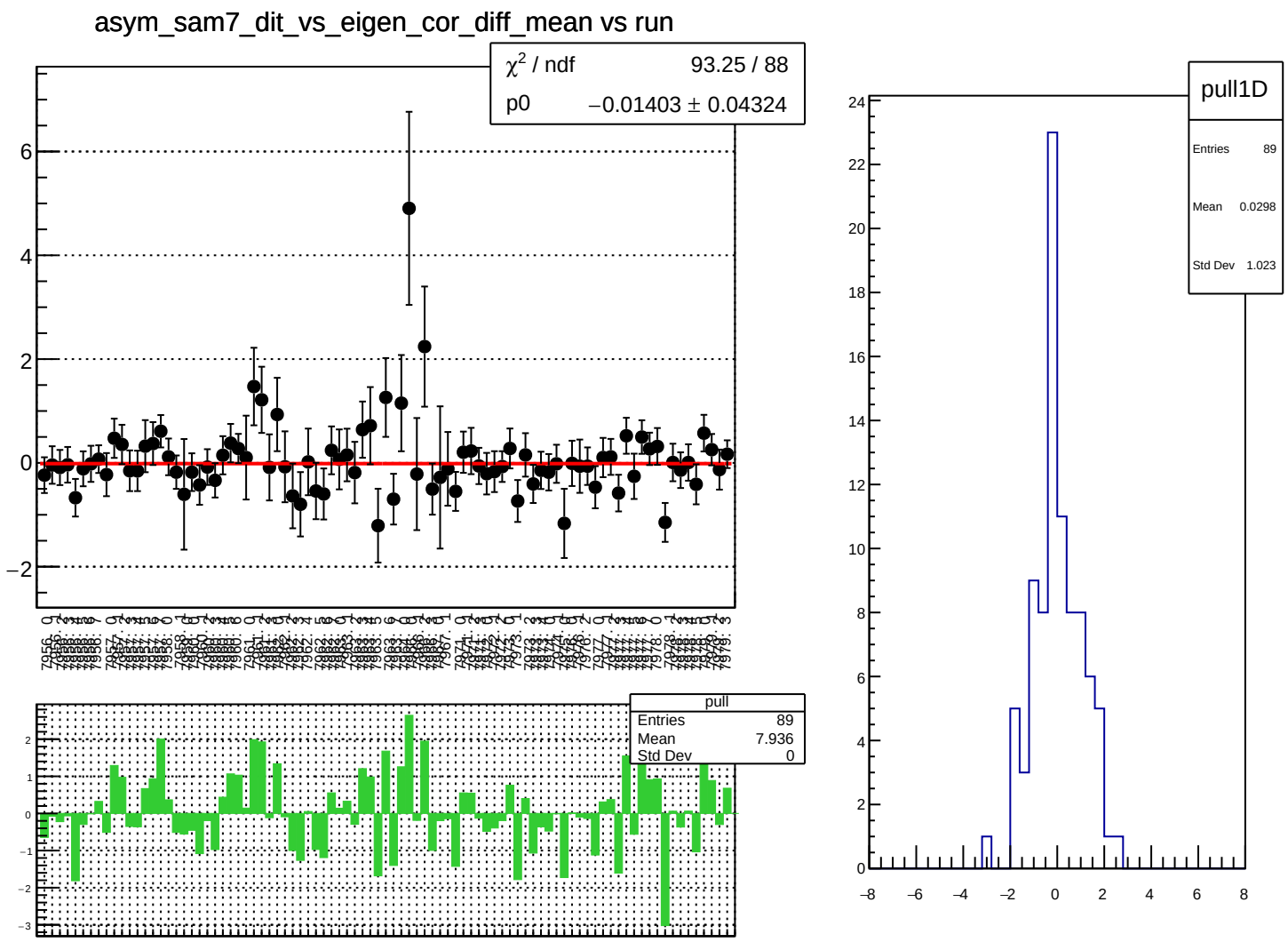

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 94.79 / 88
p0 −1.015e−13 ± 1.859e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 89
Mean −15.93
Std Dev 0
2
1
0
−1
−2

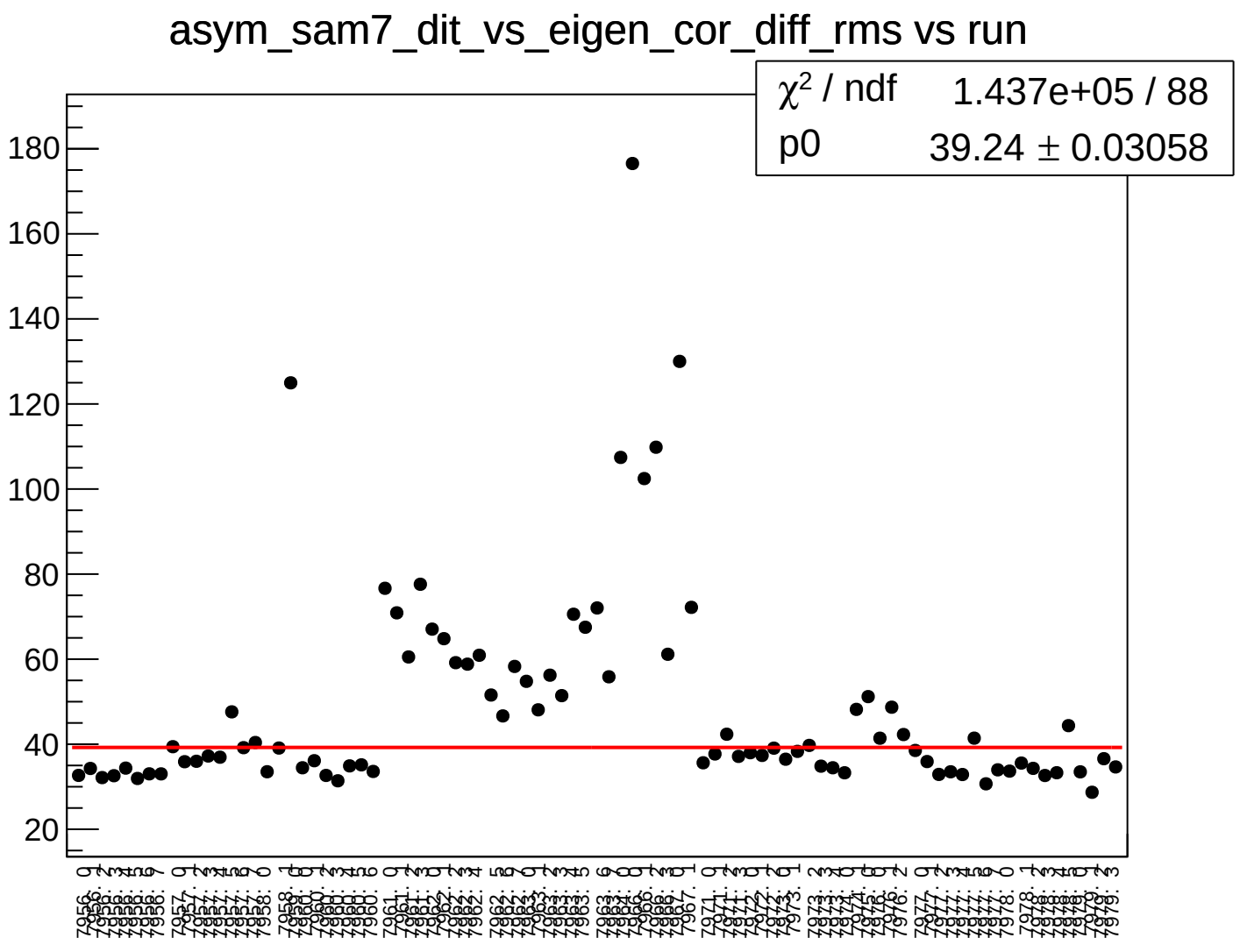

pull1D
Entries 89
Mean 0.07643
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

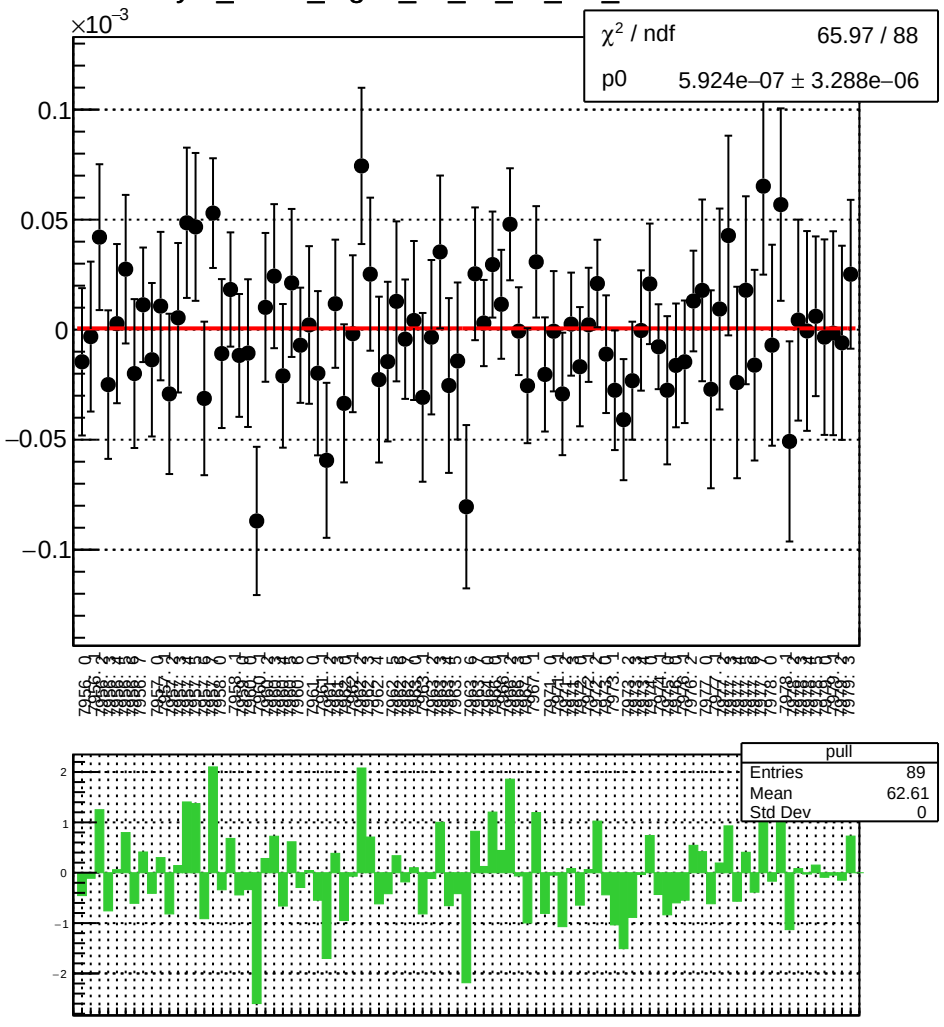

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.098e+06 / 88
p0 1.094e−10 ± 1.315e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

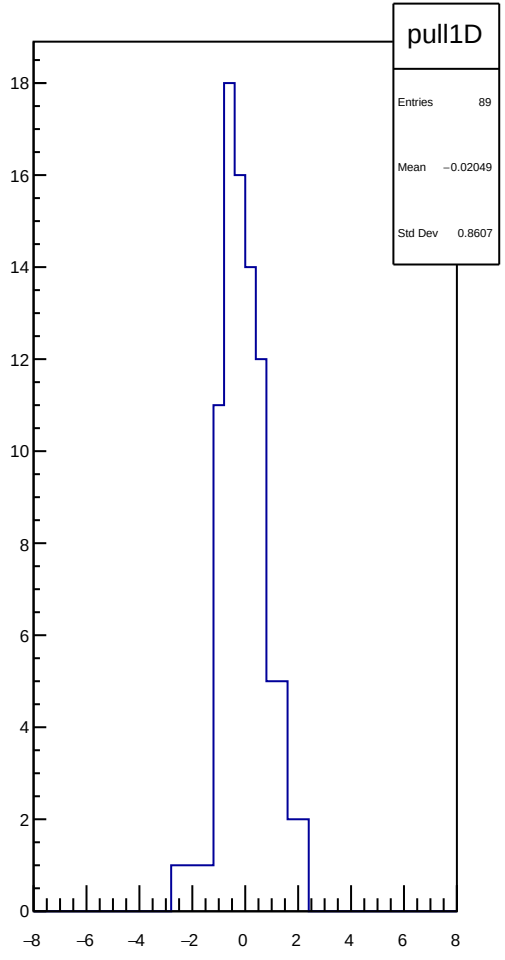

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 93.25 / 88
p0 −0.01403 ± 0.04324
pull
Entries 89
Mean 7.936
Std Dev 0
pull1D
Entries 89
Mean 0.0298
Std Dev 1.023

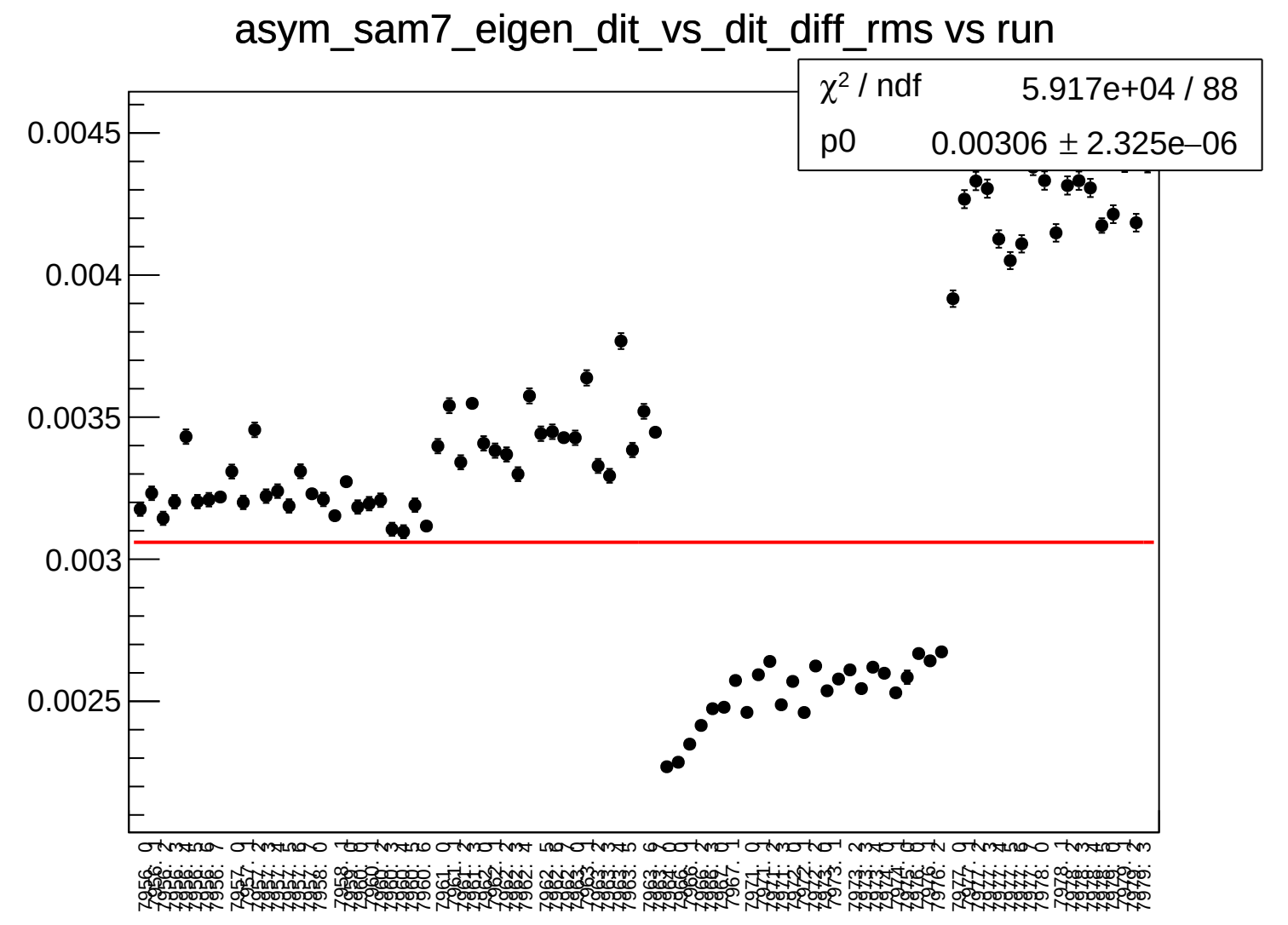

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.437e+05 / 88
p0 39.24 ± 0.03058
180
160
140
120
100
80
60
40
20

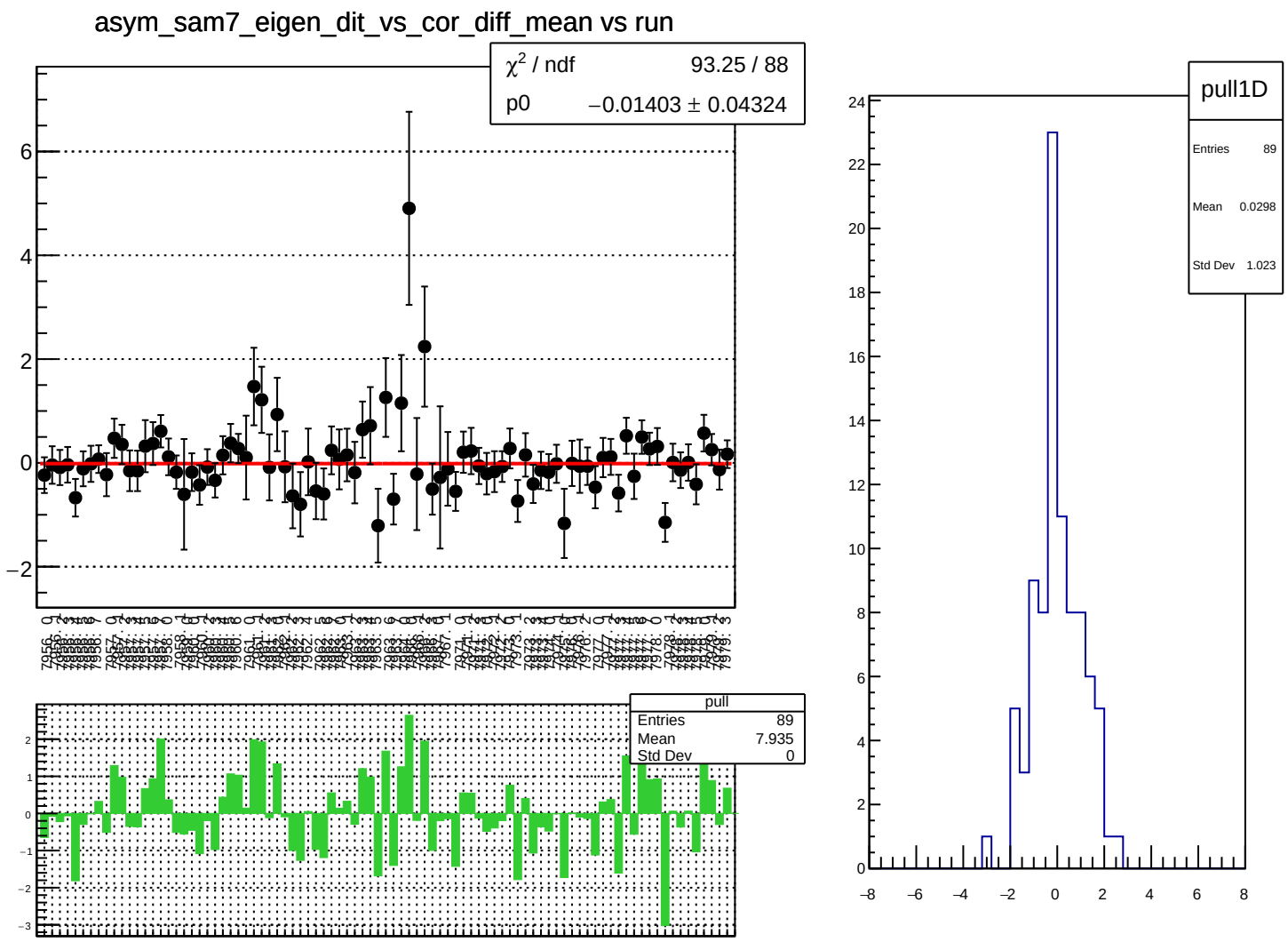

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.25 / 88
p0 −0.01403 ± 0.04324
pull
Entries 89
Mean 7.936
Std Dev 0
pull1D
Entries 89
Mean 0.0298
Std Dev 1.023

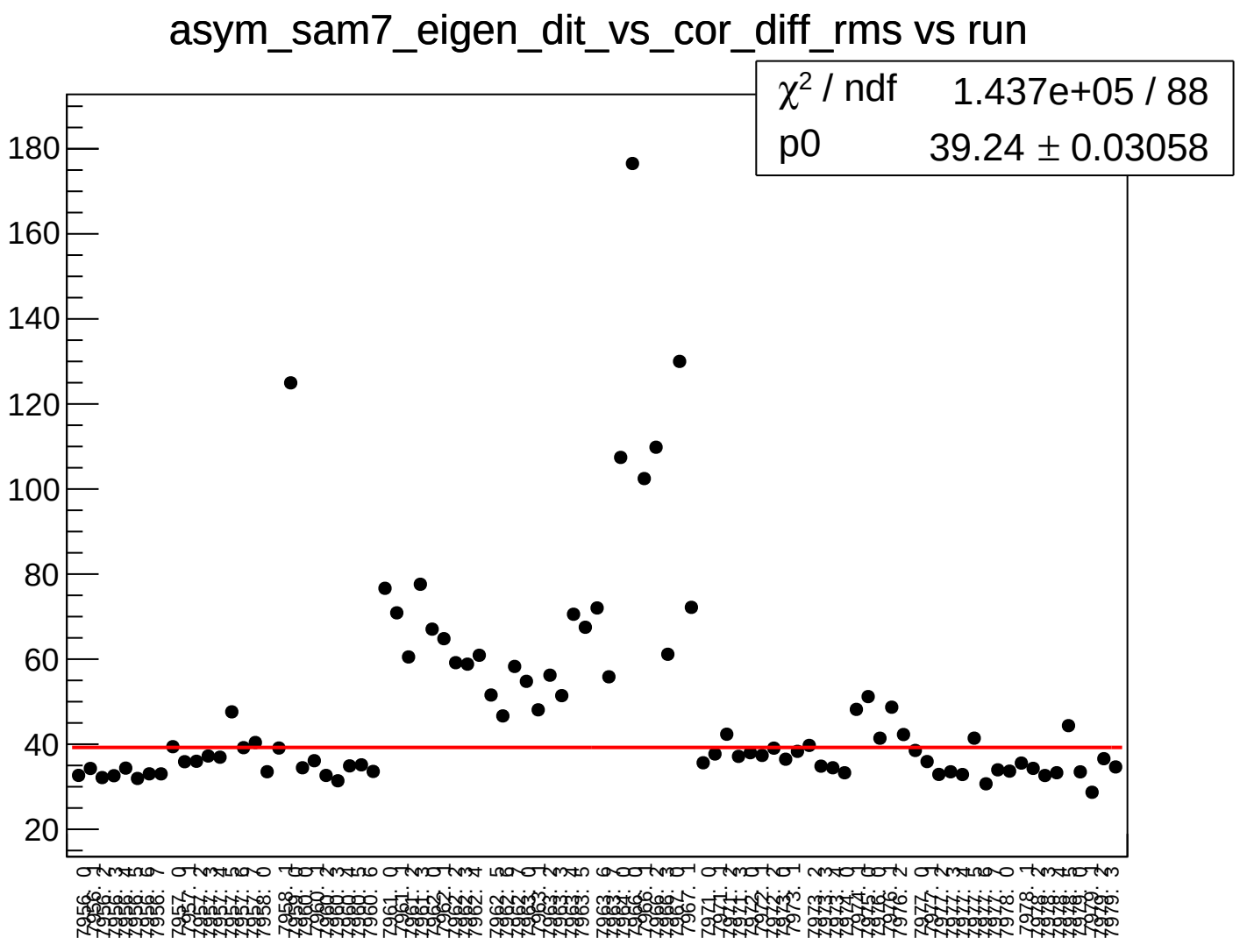

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.437e+05 / 88
p0 39.24 ± 0.03058
180
160
140
120
100
80
60
40
20

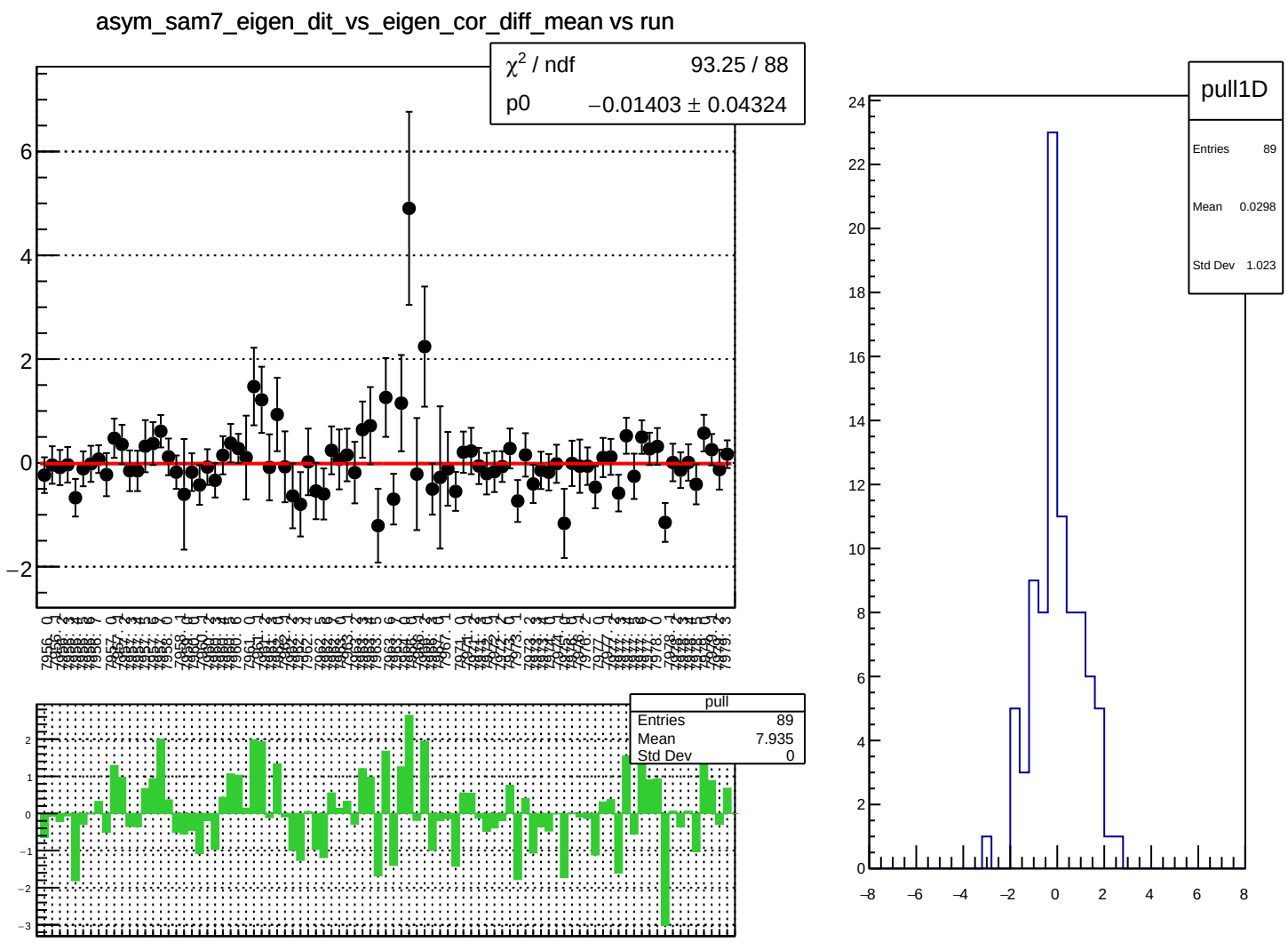

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.97 / 88
p0 5.924e−07 ± 3.288e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 62.61
Std Dev 0
2
1
0
−1
−2

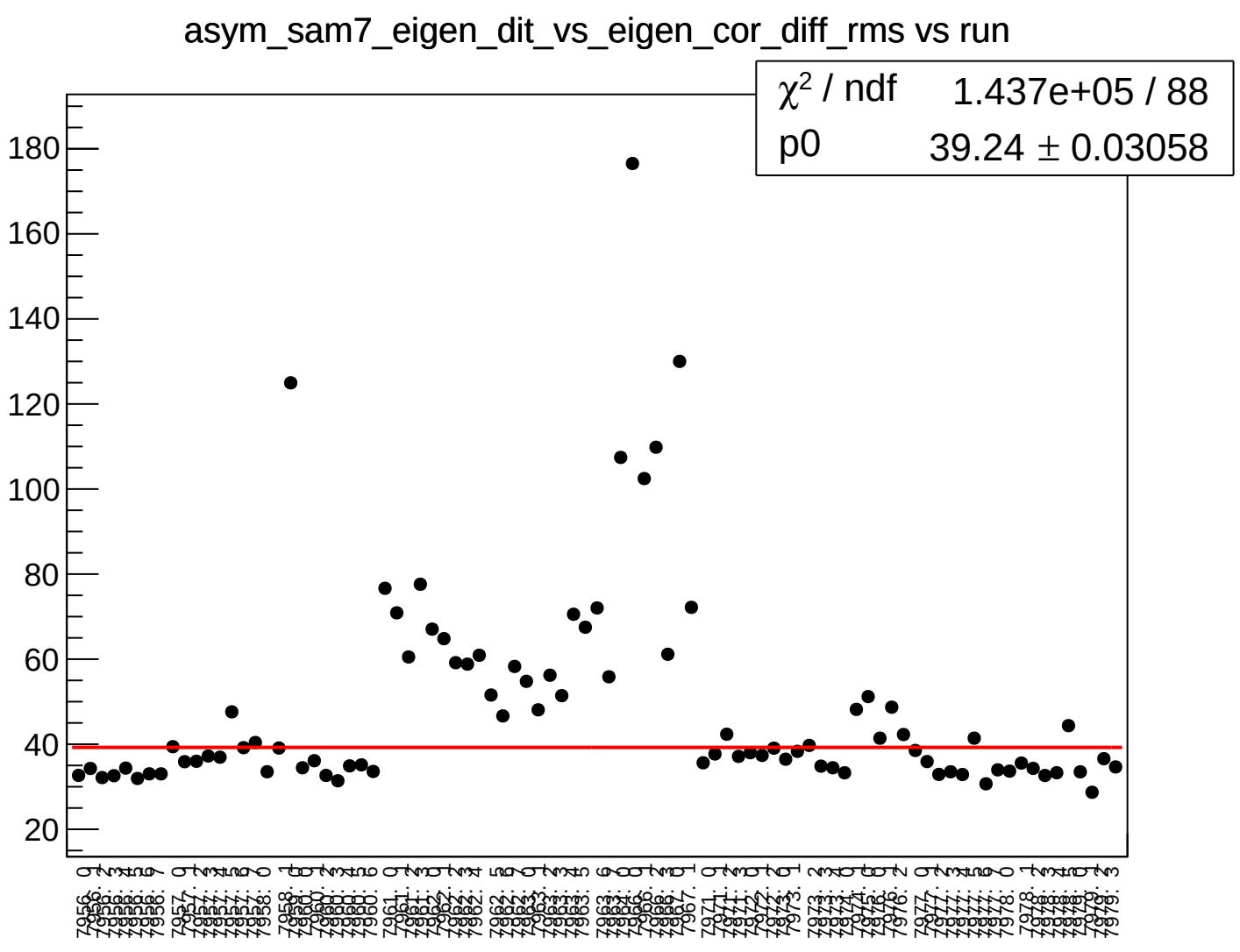

pull1D
Entries 89
Mean −0.02049
Std Dev 0.8607
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

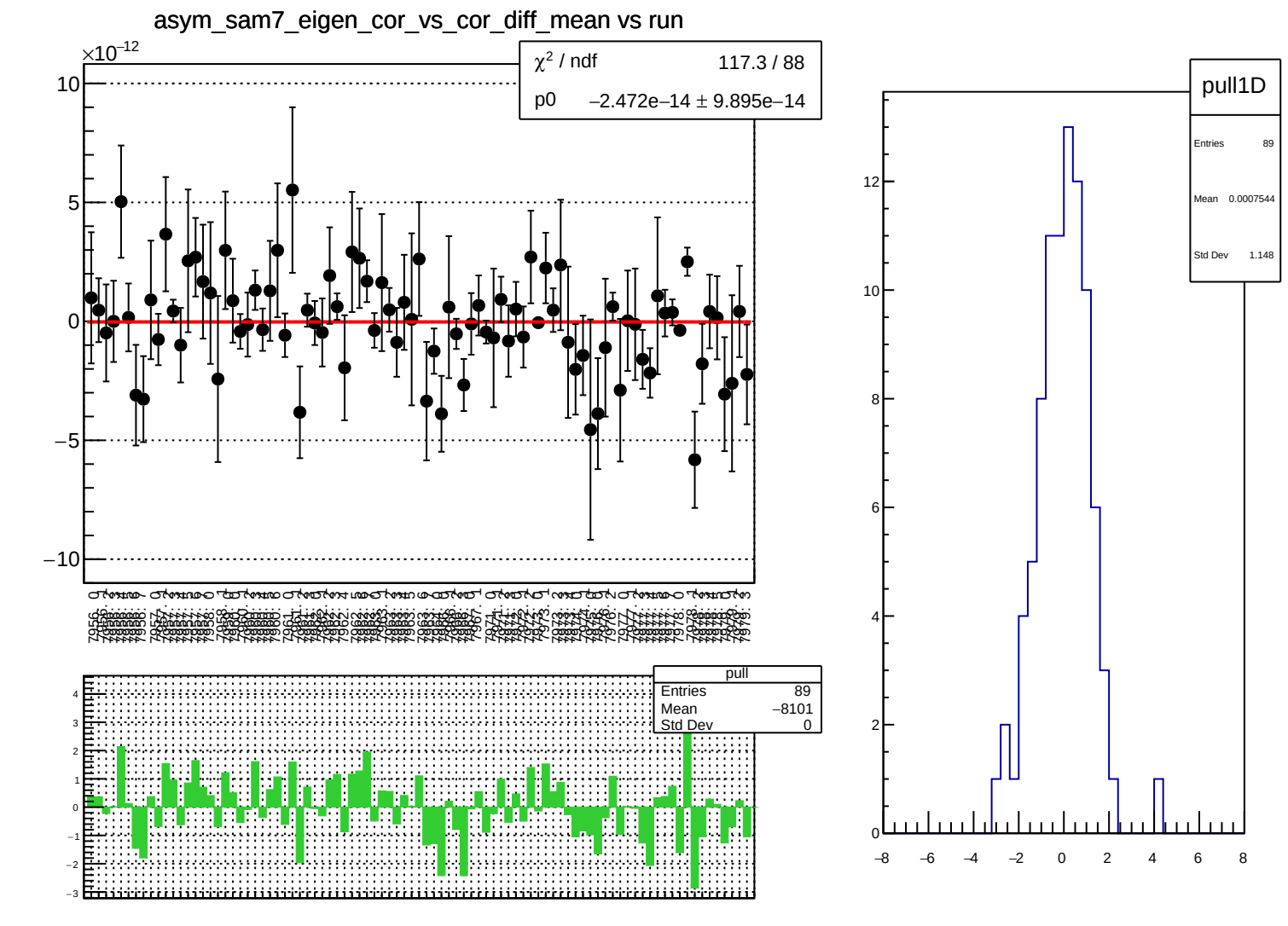

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.917e+04 / 88
p0 0.00306 ± 2.325e−06
0.0045
0.004
0.0035
0.003
0.0025

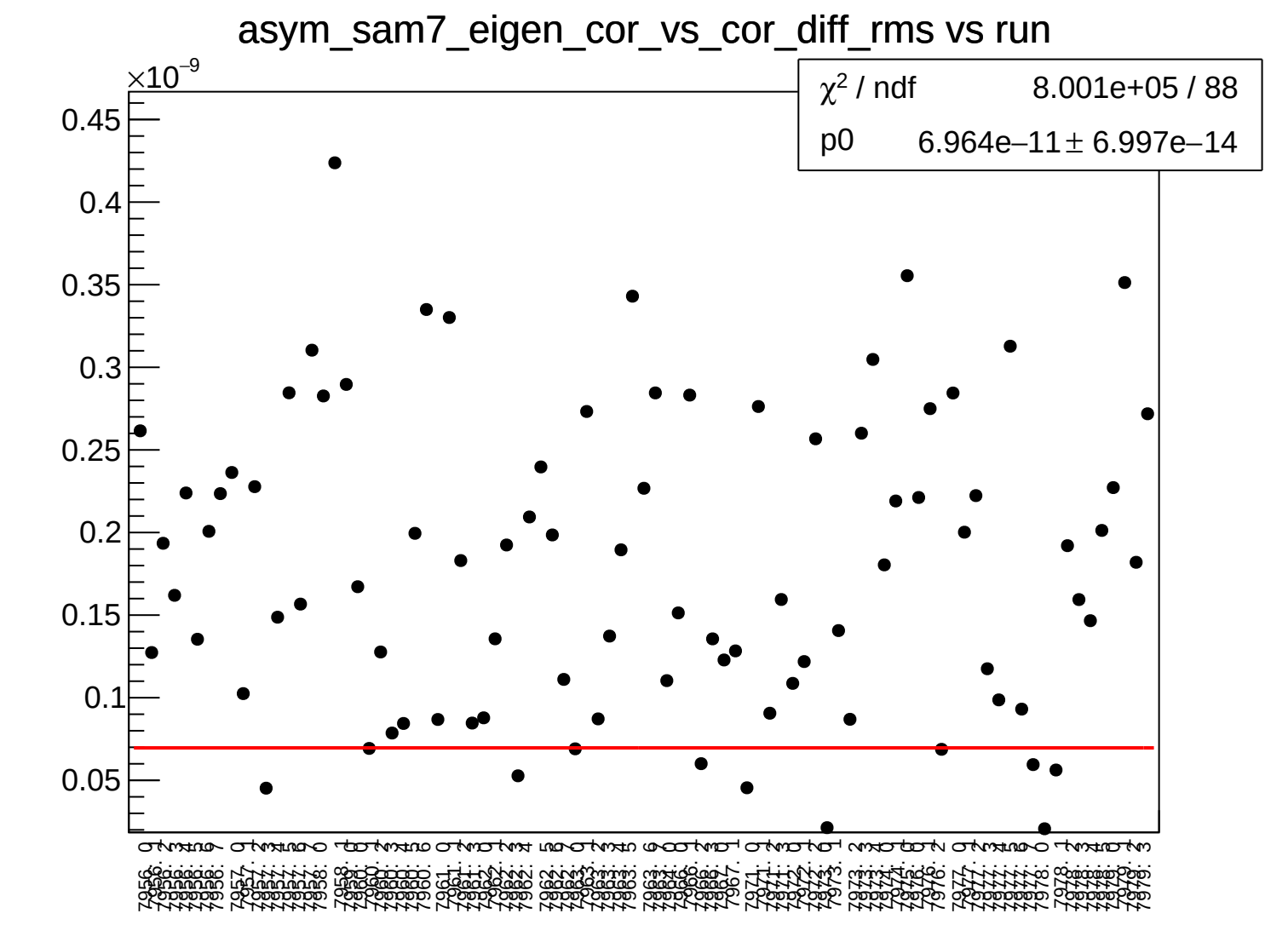

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.25 / 88
p0 −0.01403 ± 0.04324
pull
Entries 89
Mean 7.935
Std Dev 0
pull1D
Entries 89
Mean 0.0298
Std Dev 1.023

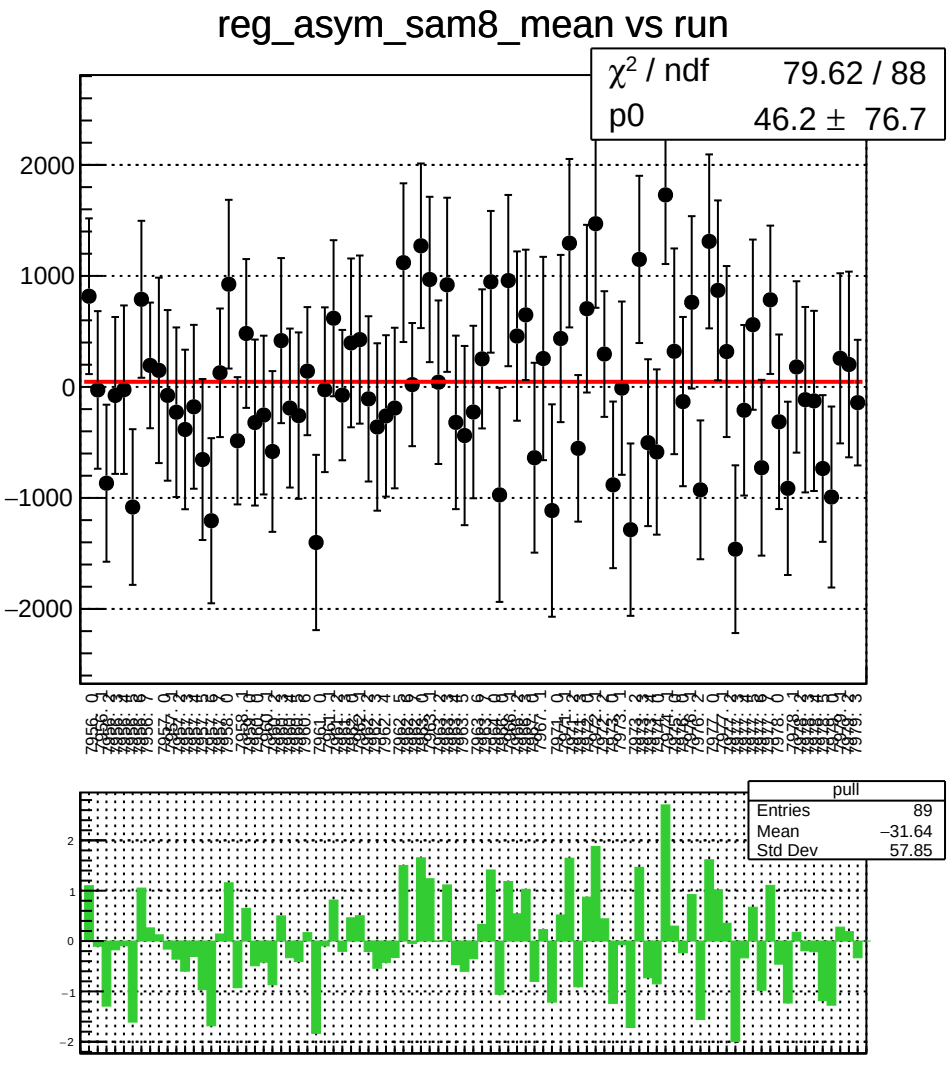

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.437e+05 / 88
p0 39.24 ± 0.03058
180
160
140
120
100
80
60
40
20

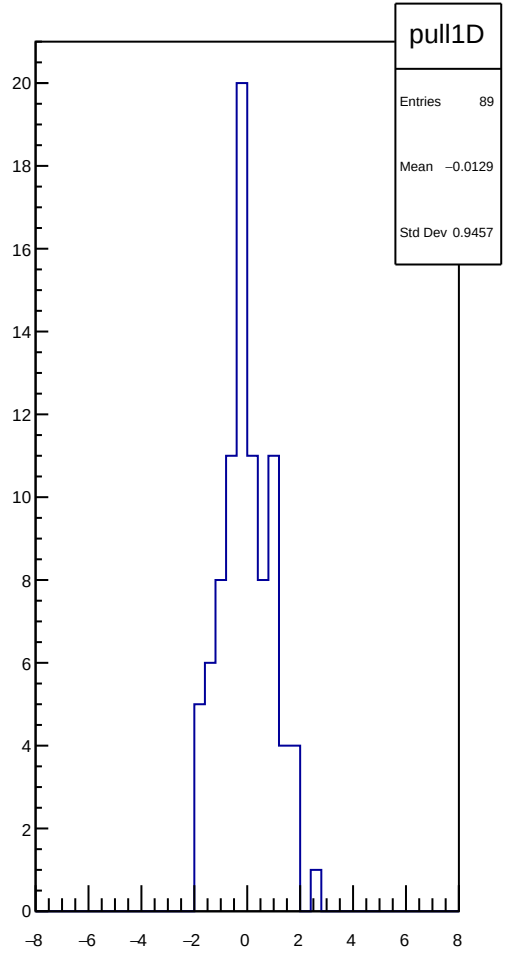

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.25 / 88
p0 −0.01403 ± 0.04324
pull
Entries 89
Mean 7.935
Std Dev 0
pull1D
Entries 89
Mean 0.0298
Std Dev 1.023

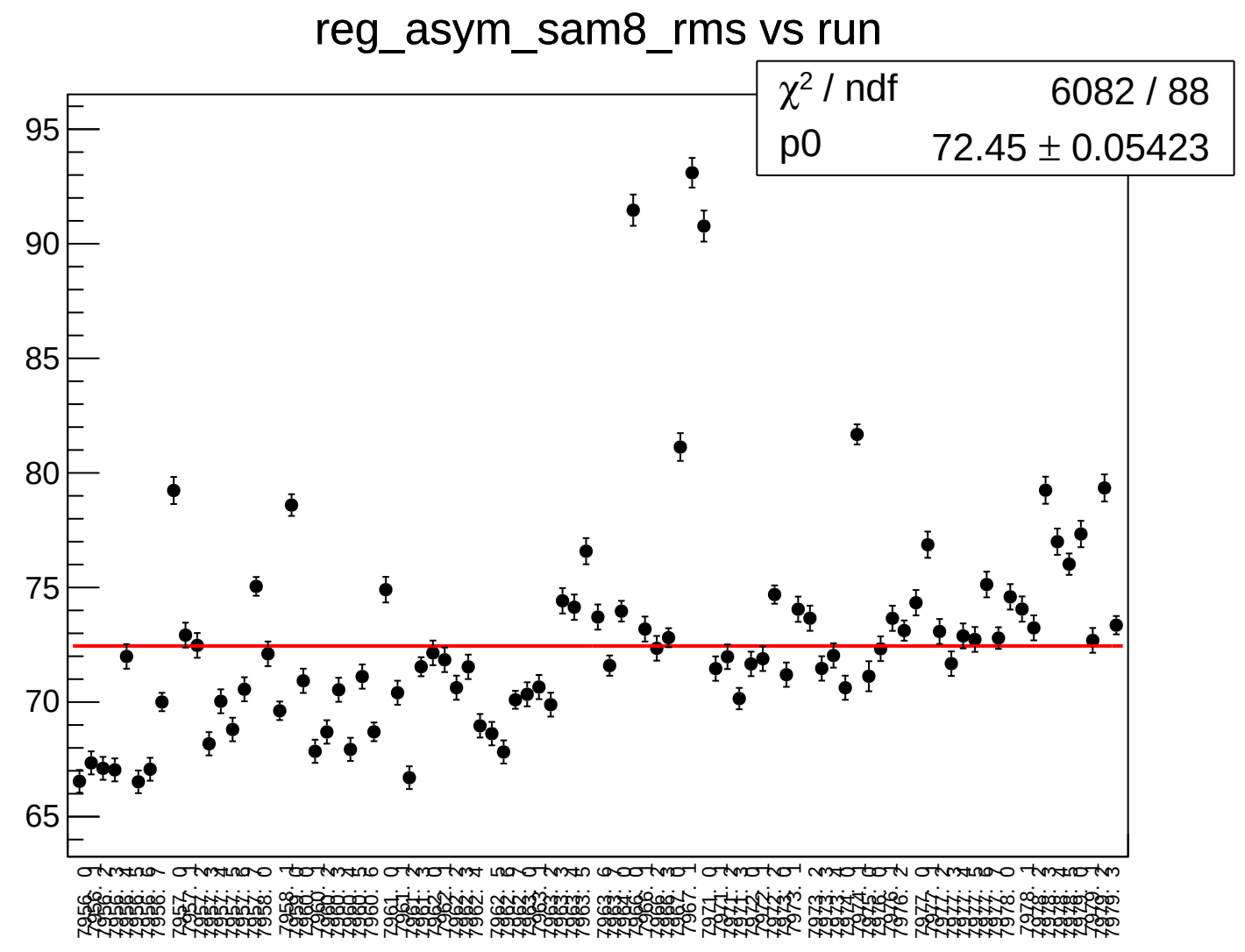

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.437e+05 / 88
p0 39.24 ± 0.03058
180
160
140
120
100
80
60
40
20

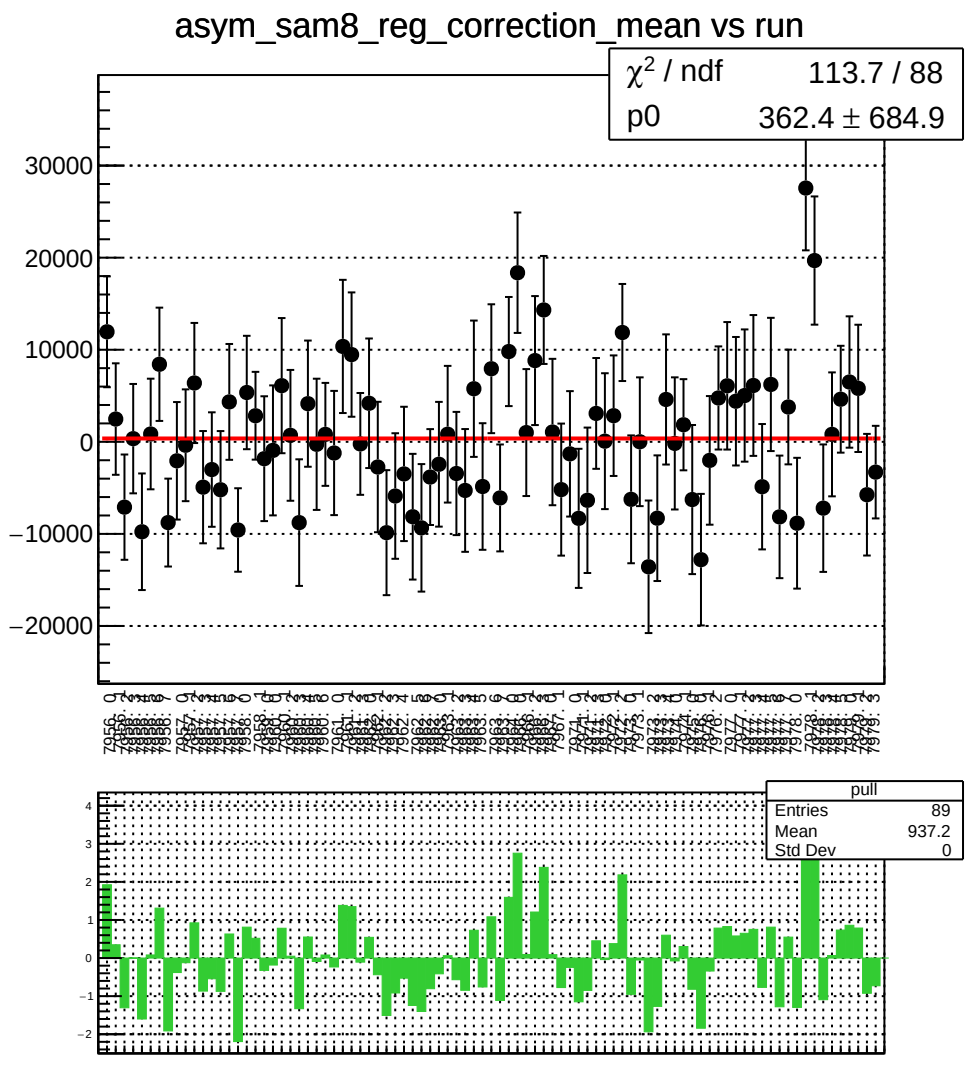

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 117.3 / 88
p0 −2.472e−14 ± 9.895e−14
pull
Entries 89
Mean −8101
Std Dev 0
pull1D
Entries 89
Mean 0.0007544
Std Dev 1.148

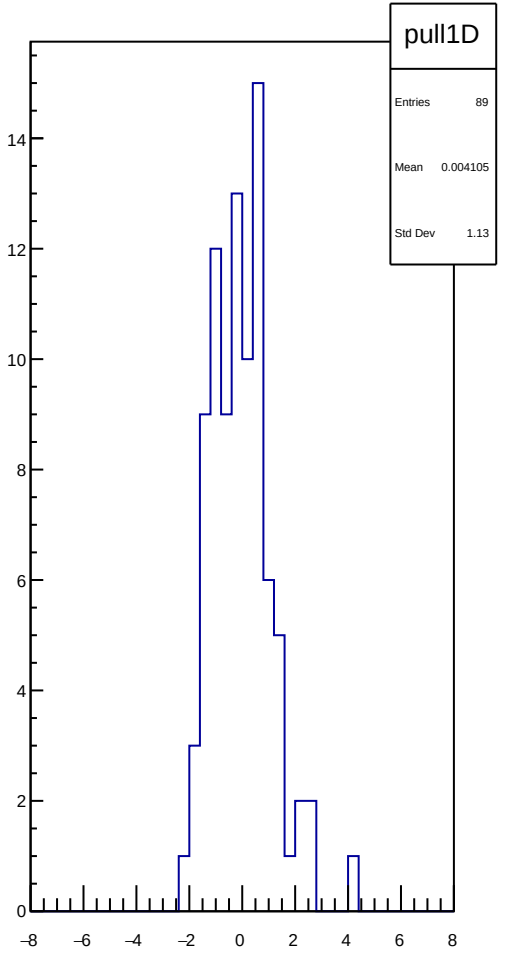

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.001e+05 / 88
p0 6.964e−11 ± 6.997e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

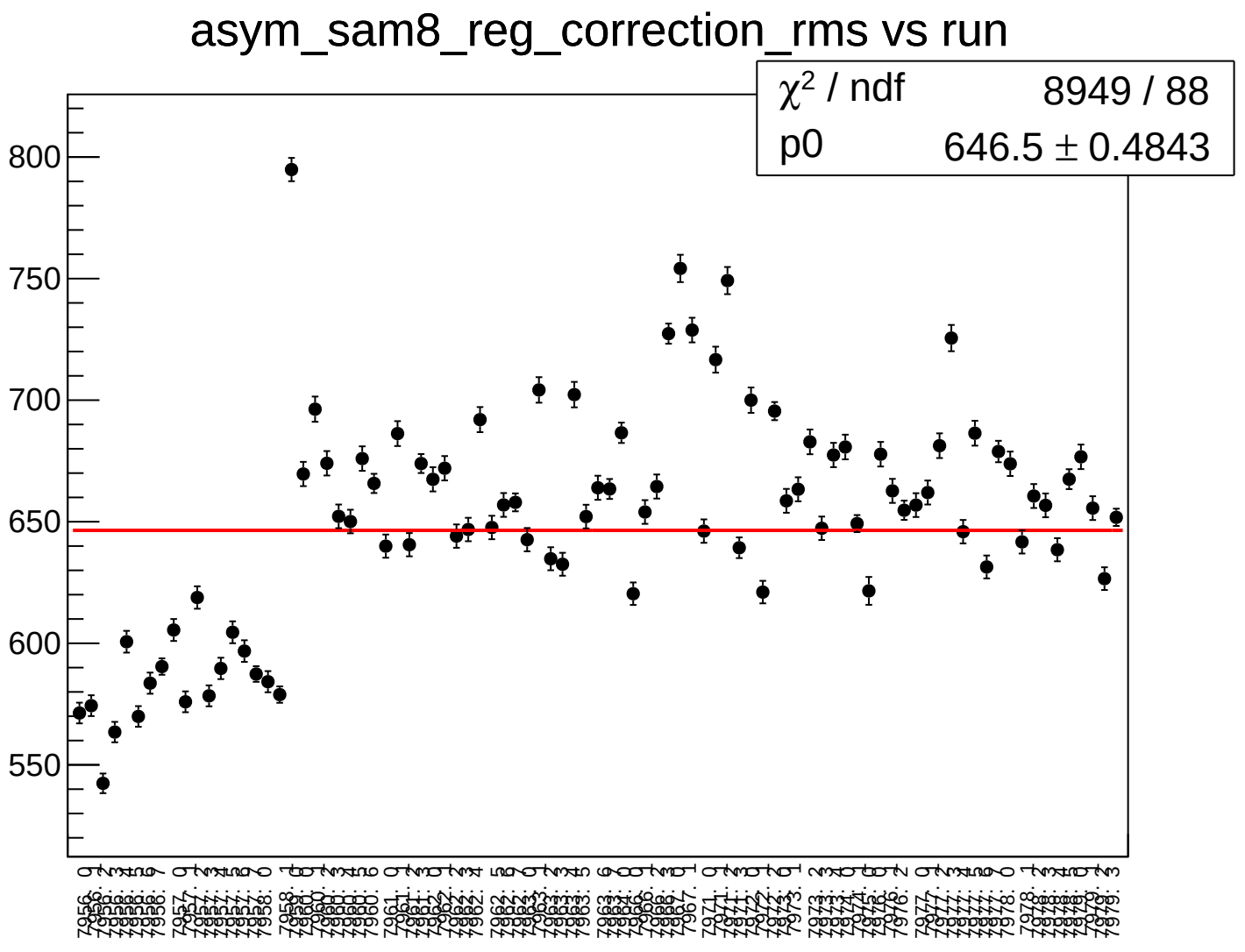

reg_asym_sam8_mean vs run
χ² / ndf 79.62 / 88
p0 46.2 ± 76.7
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −31.64
Std Dev 57.85
2
1
0
−1
−2

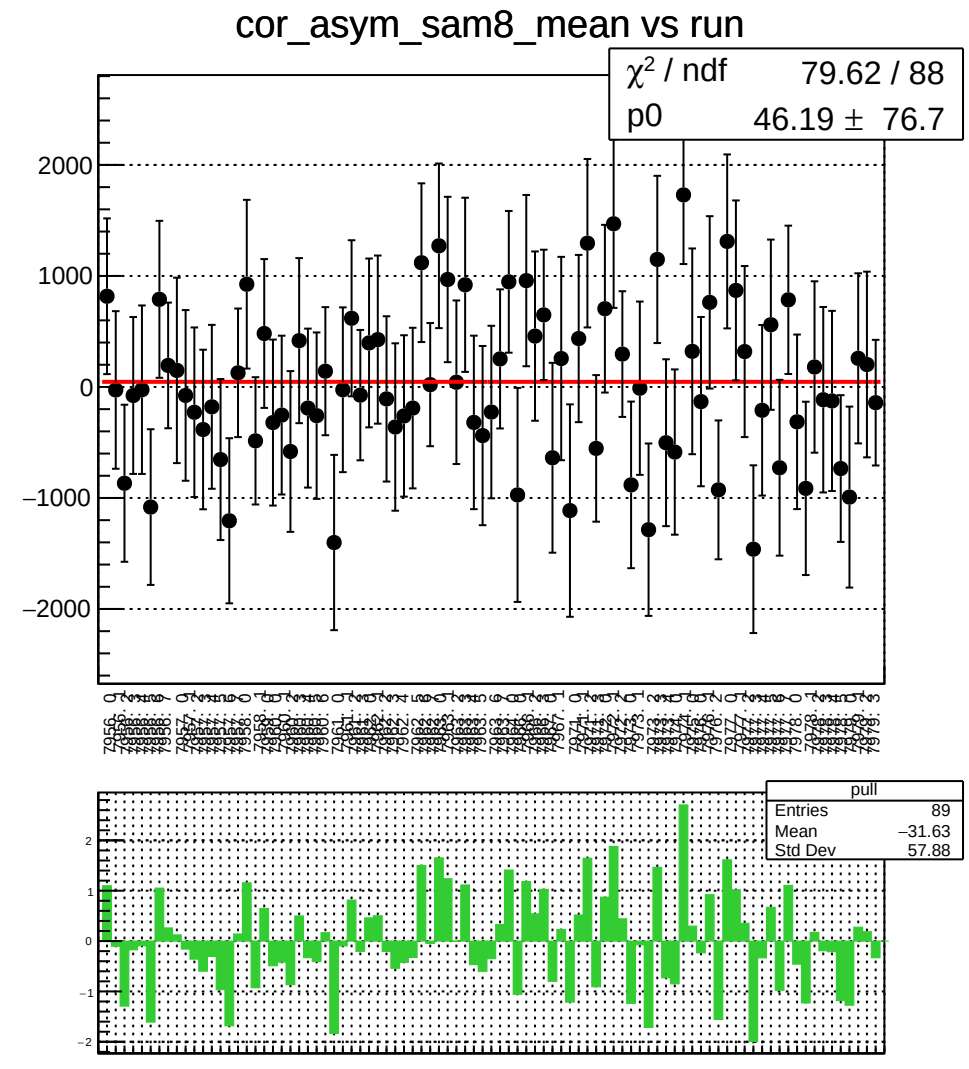

pull1D
Entries 89
Mean −0.0129
Std Dev 0.9457
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

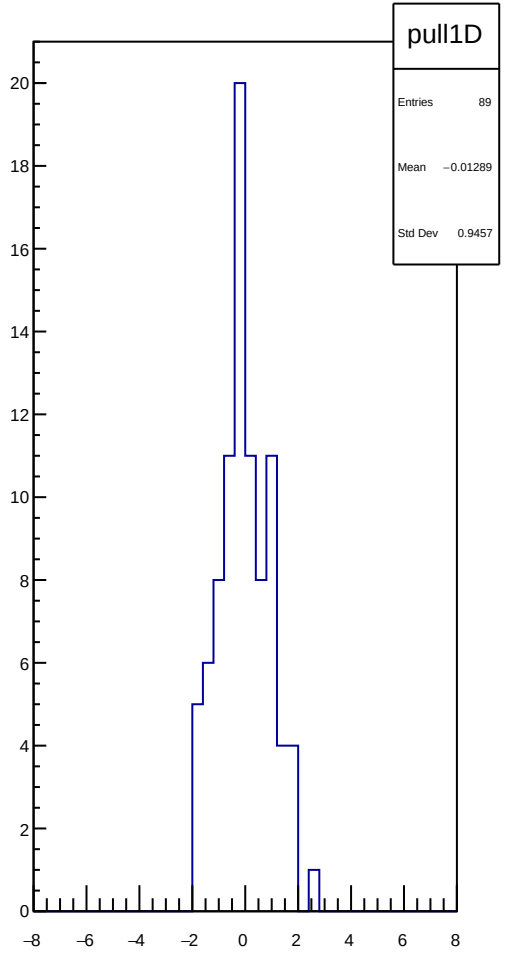

reg_asym_sam8_rms vs run
$\chi^2$ / ndf 6082 / 88
p0 72.45 ± 0.05423
95
90
85
80
75
70
65

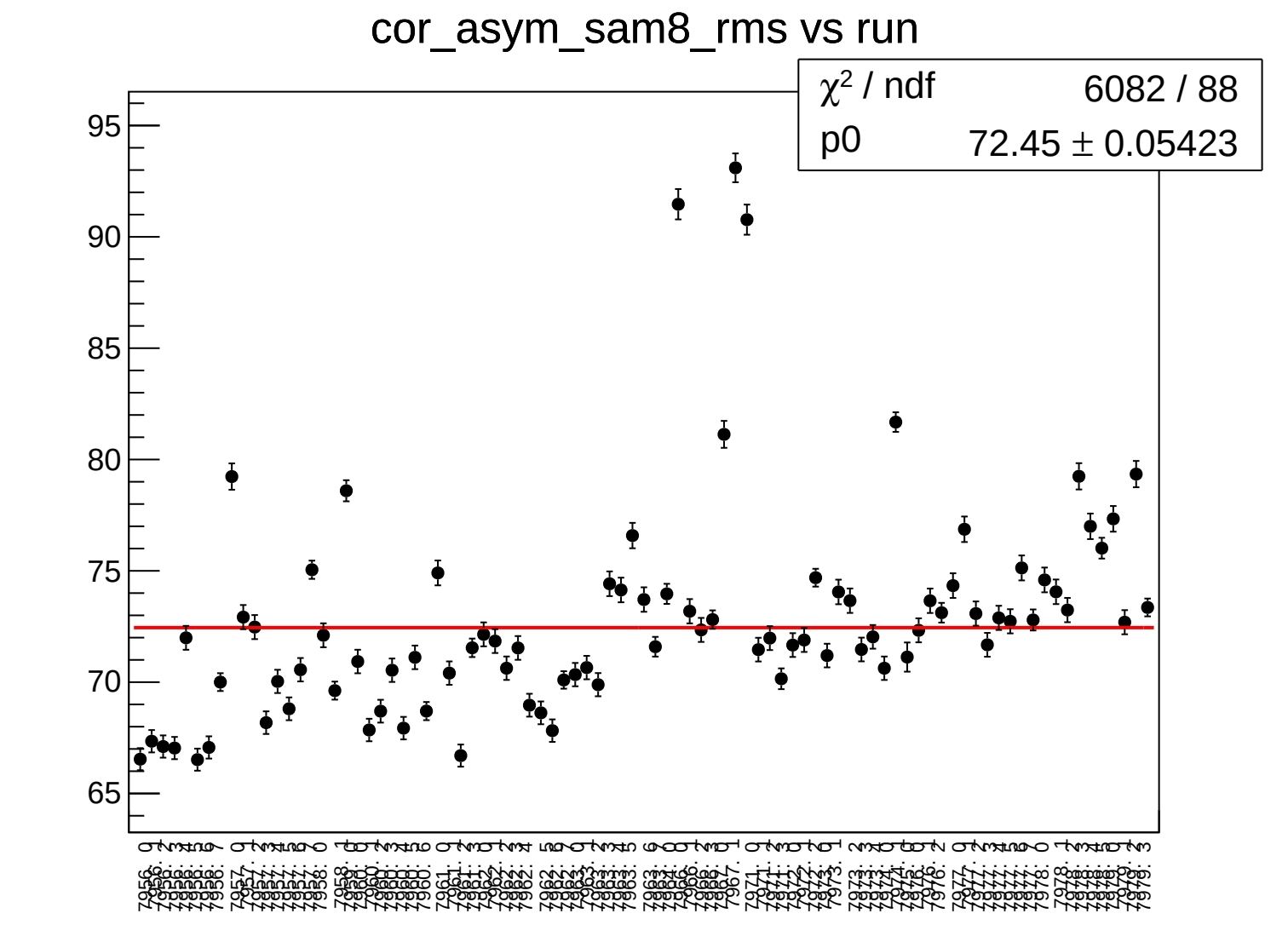

asym_sam8_reg_correction_mean vs run
χ² / ndf 113.7 / 88
p0 362.4 ± 684.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 937.2
Std Dev 0

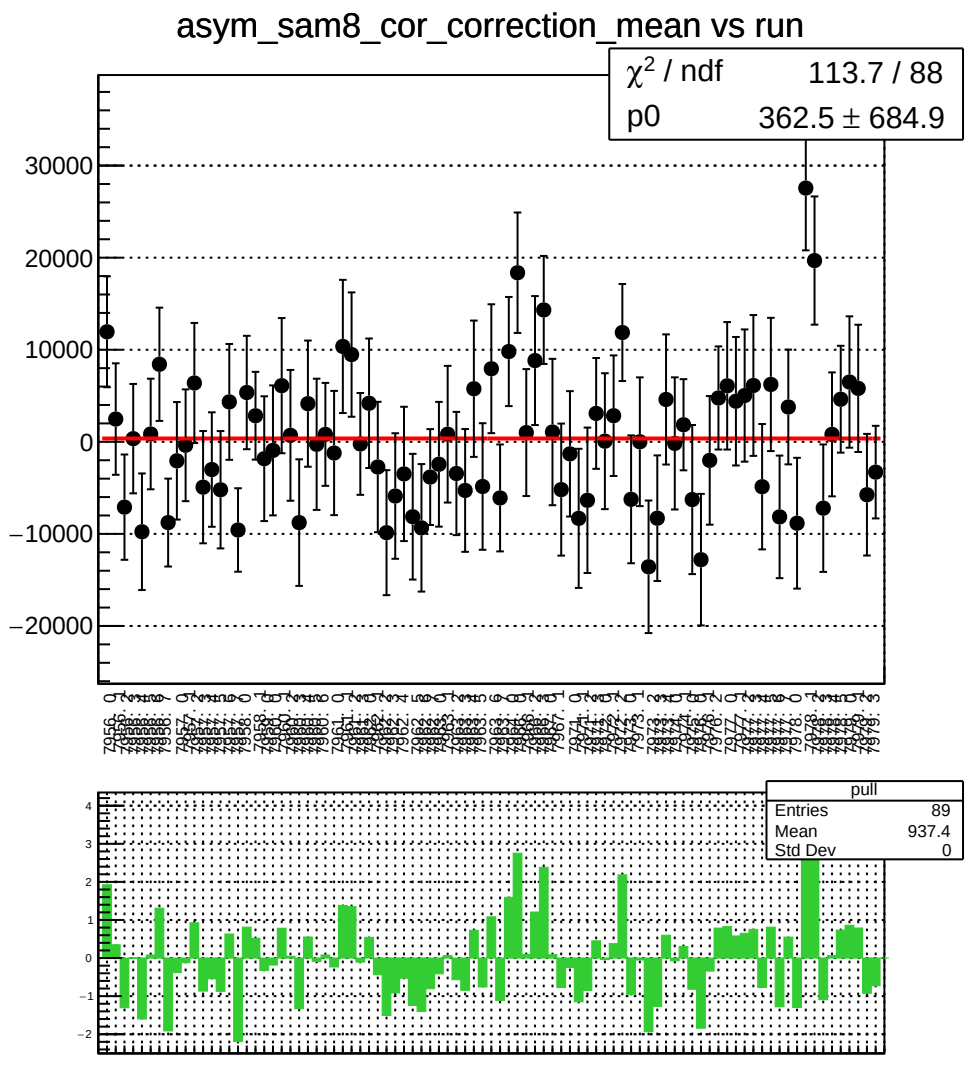

pull1D
Entries 89
Mean 0.004105
Std Dev 1.13
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

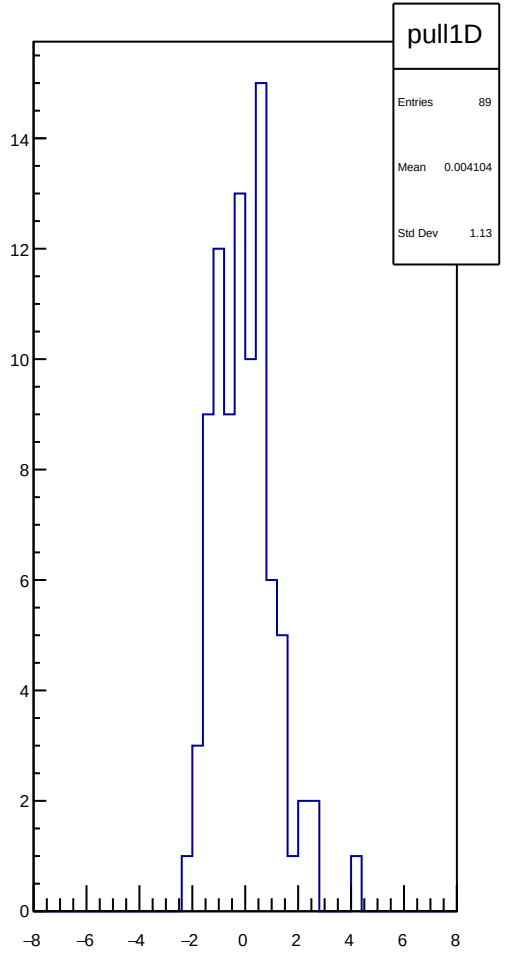

asym_sam8_reg_correction_rms vs run
χ² / ndf 8949 / 88
p0 646.5 ± 0.4843
800
750
700
650
600
550

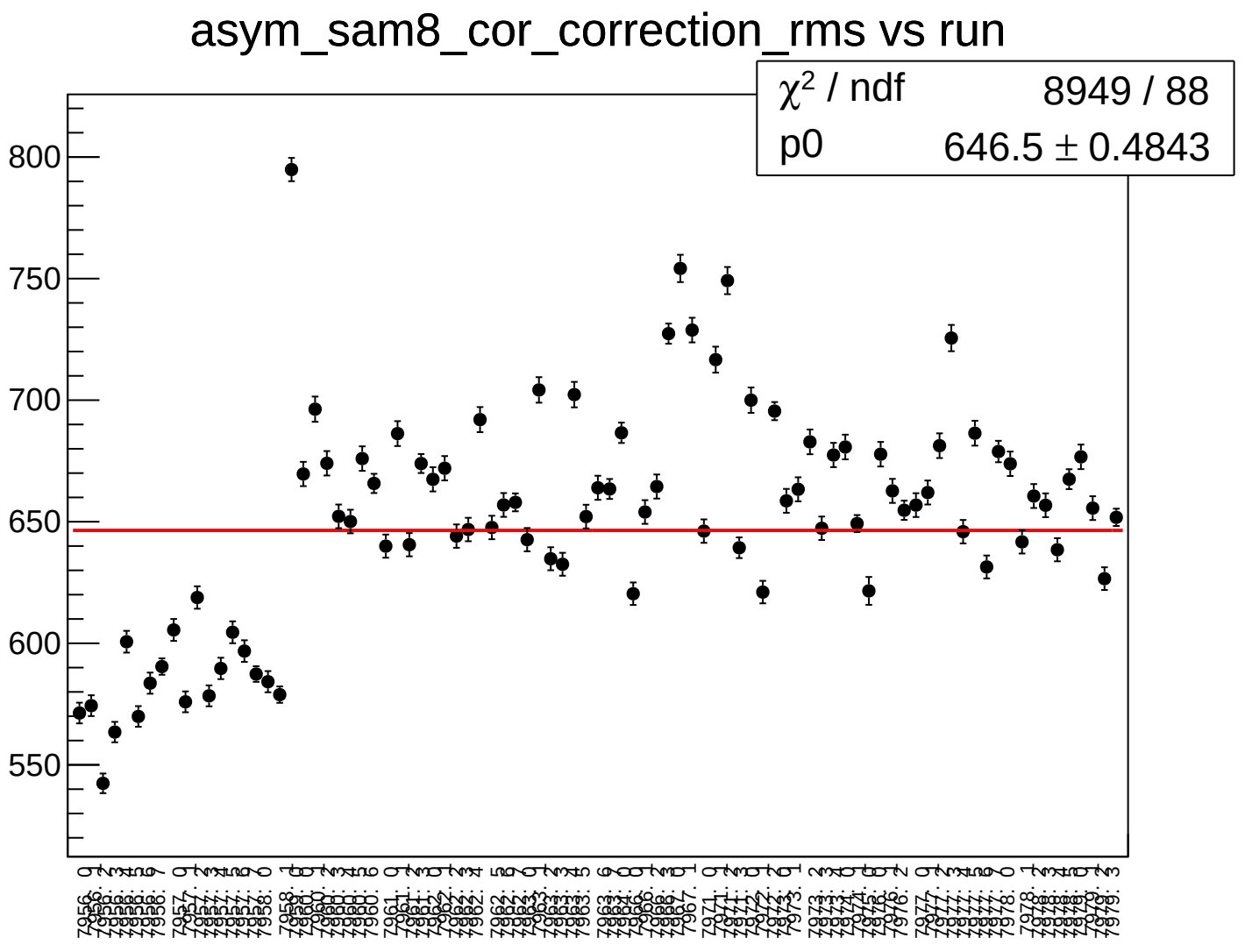

cor_asym_sam8_mean vs run
χ² / ndf 79.62 / 88
p0 46.19 ± 76.7
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −31.63
Std Dev 57.88
2
1
0
−1
−2

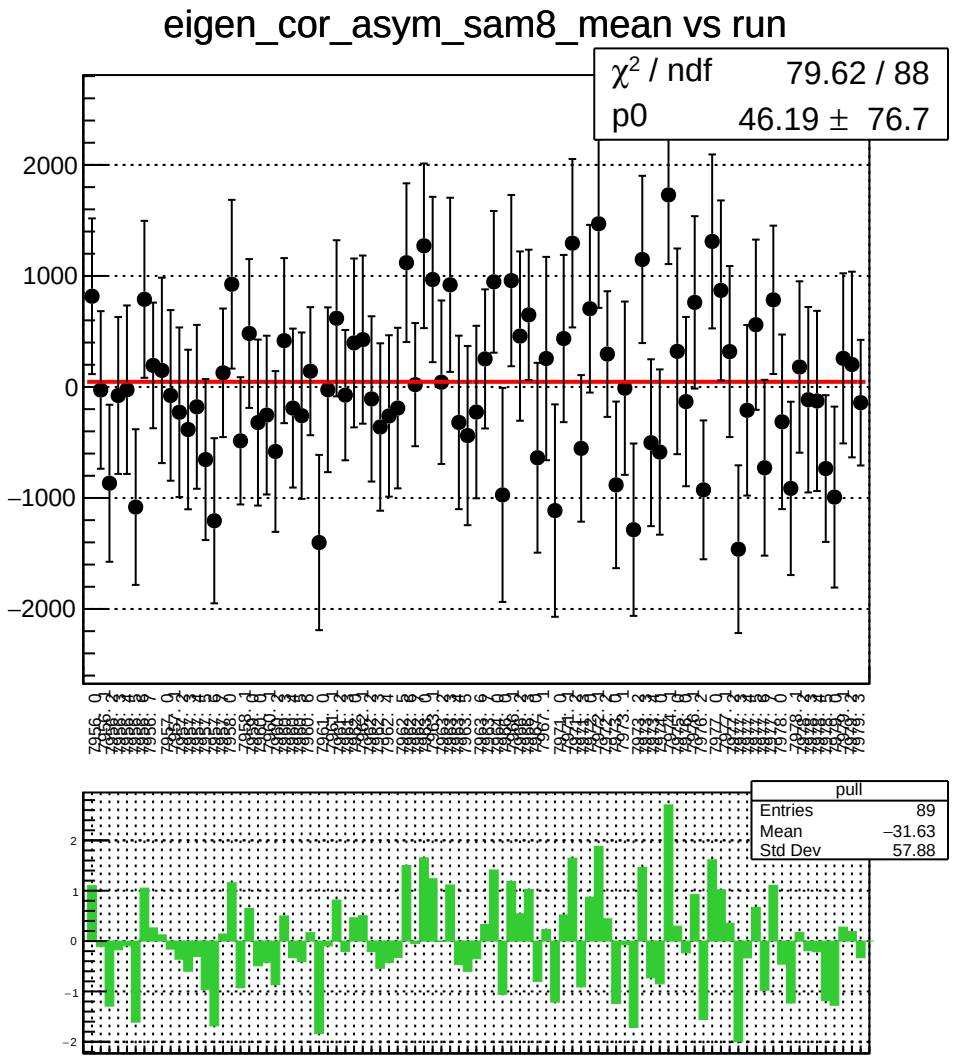

pull1D
Entries 89
Mean −0.01289
Std Dev 0.9457
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

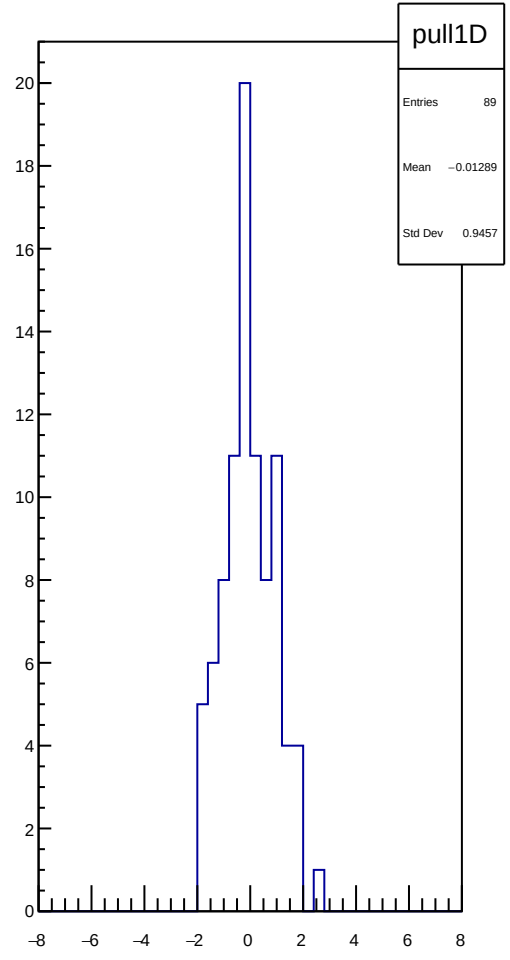

cor_asym_sam8_rms vs run
$\chi^2$ / ndf 6082 / 88
p0 72.45 ± 0.05423
95
90
85
80
75
70
65

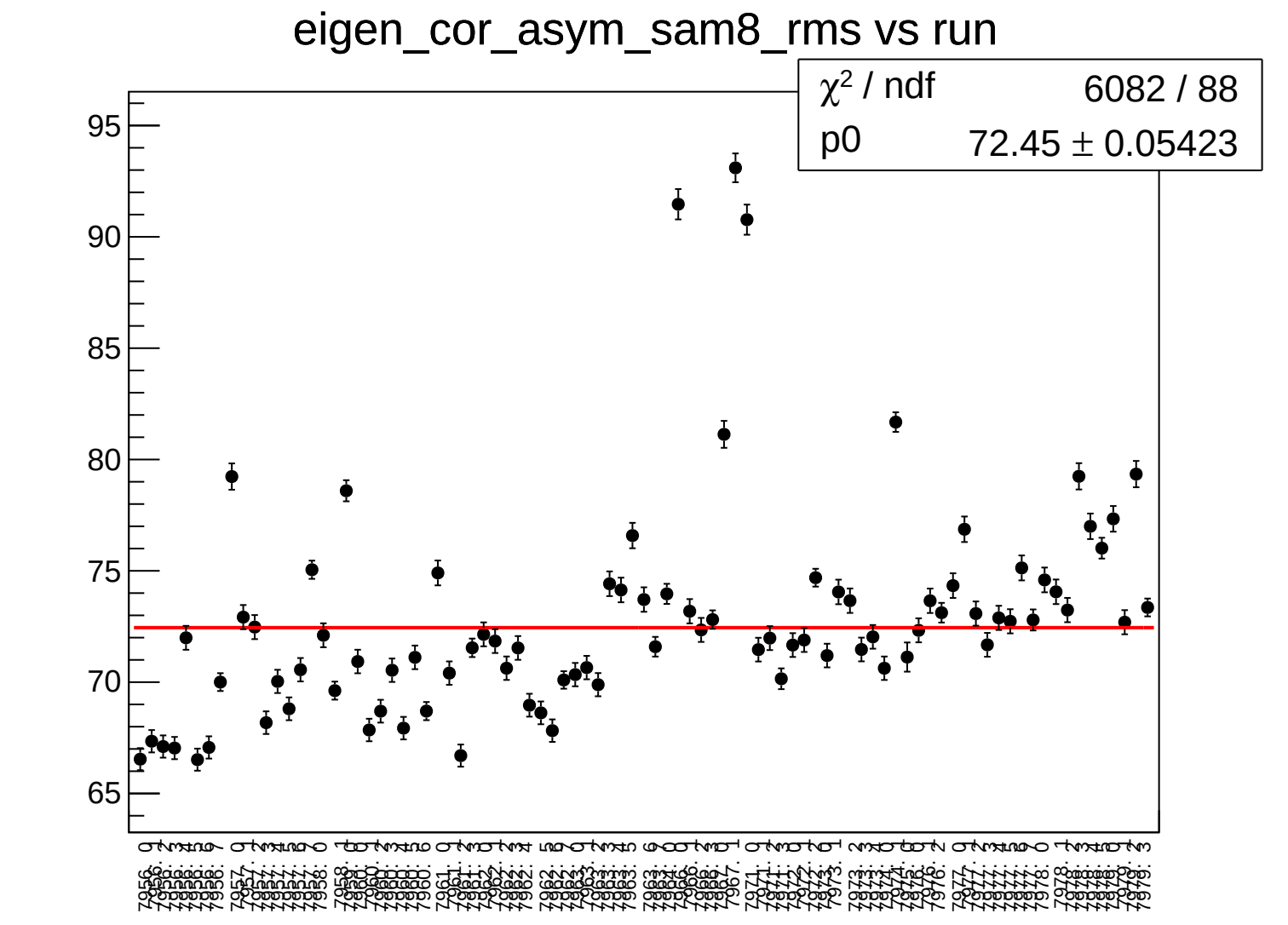

asym_sam8_cor_correction_mean vs run
χ² / ndf 113.7 / 88
p0 362.5 ± 684.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 937.4
Std Dev 0
4
3
2
1
0
−1
−2

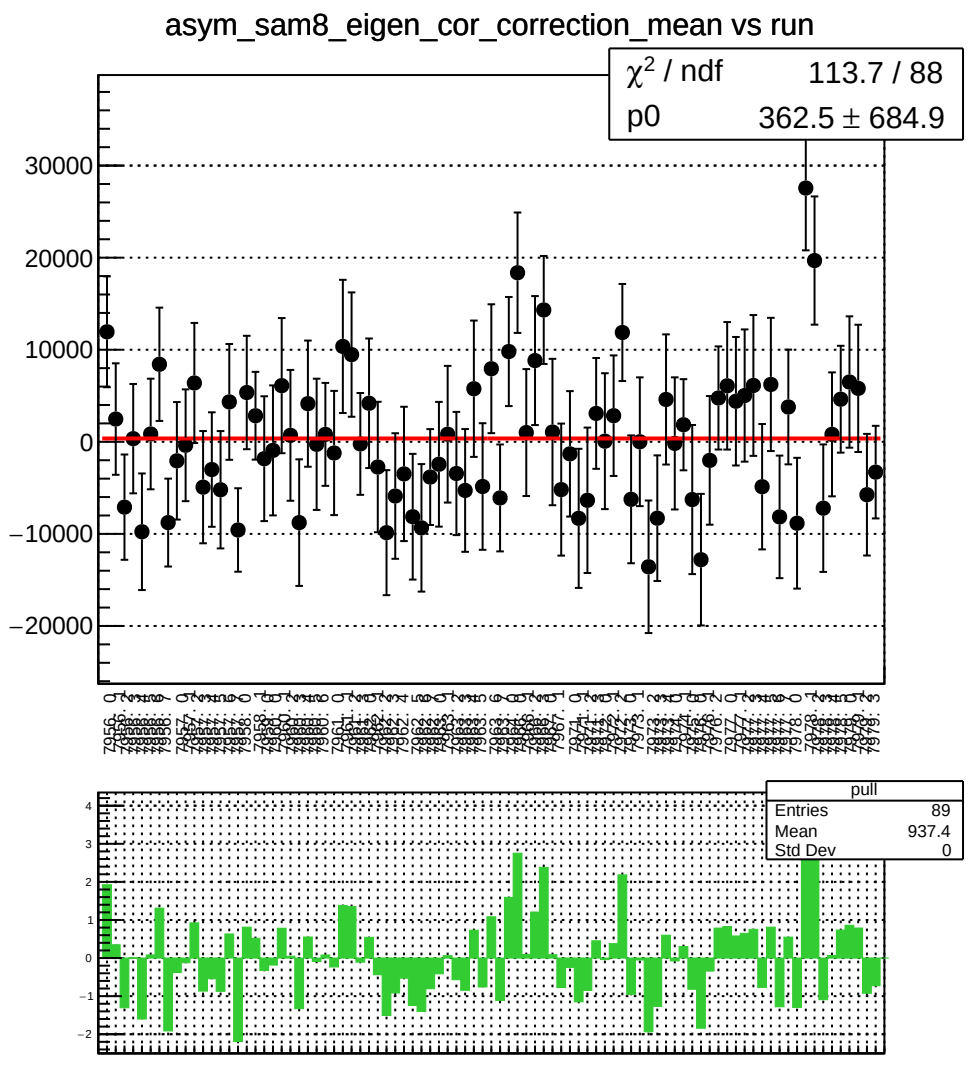

pull1D
Entries 89
Mean 0.004104
Std Dev 1.13
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

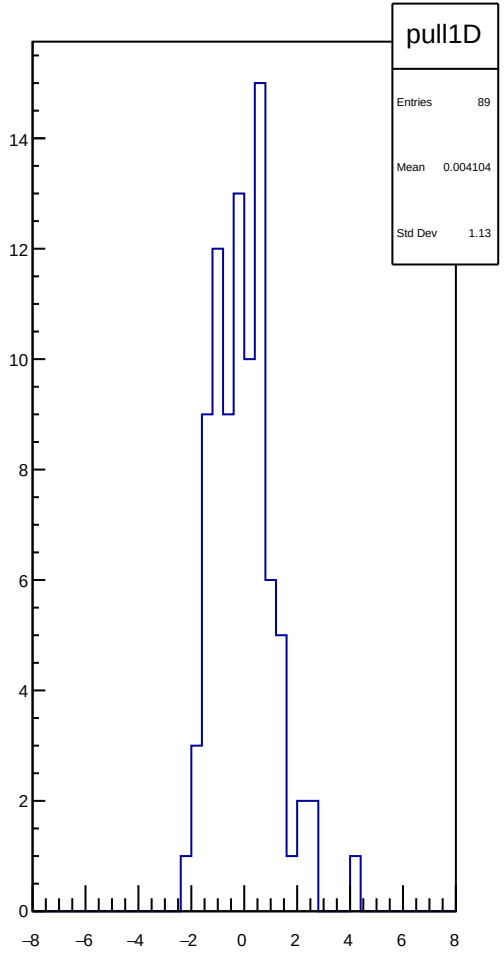

asym_sam8_cor_correction_rms vs run
χ² / ndf 8949 / 88
p0 646.5 ± 0.4843
800
750
700
650
600
550

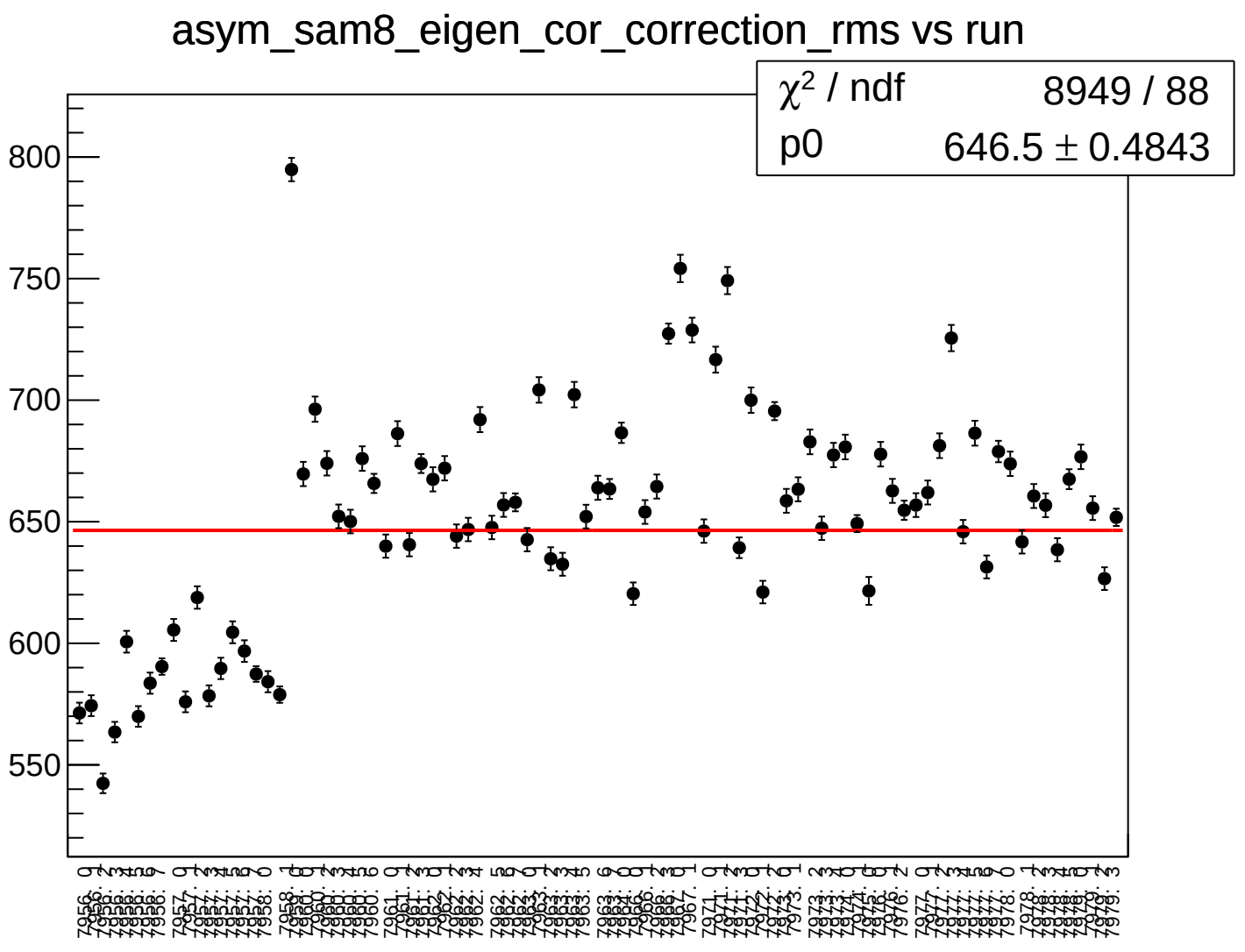

eigen_cor_asym_sam8_mean vs run
χ² / ndf 79.62 / 88
p0 46.19 ± 76.7
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −31.63
Std Dev 57.88
2
1
0
−1
−2

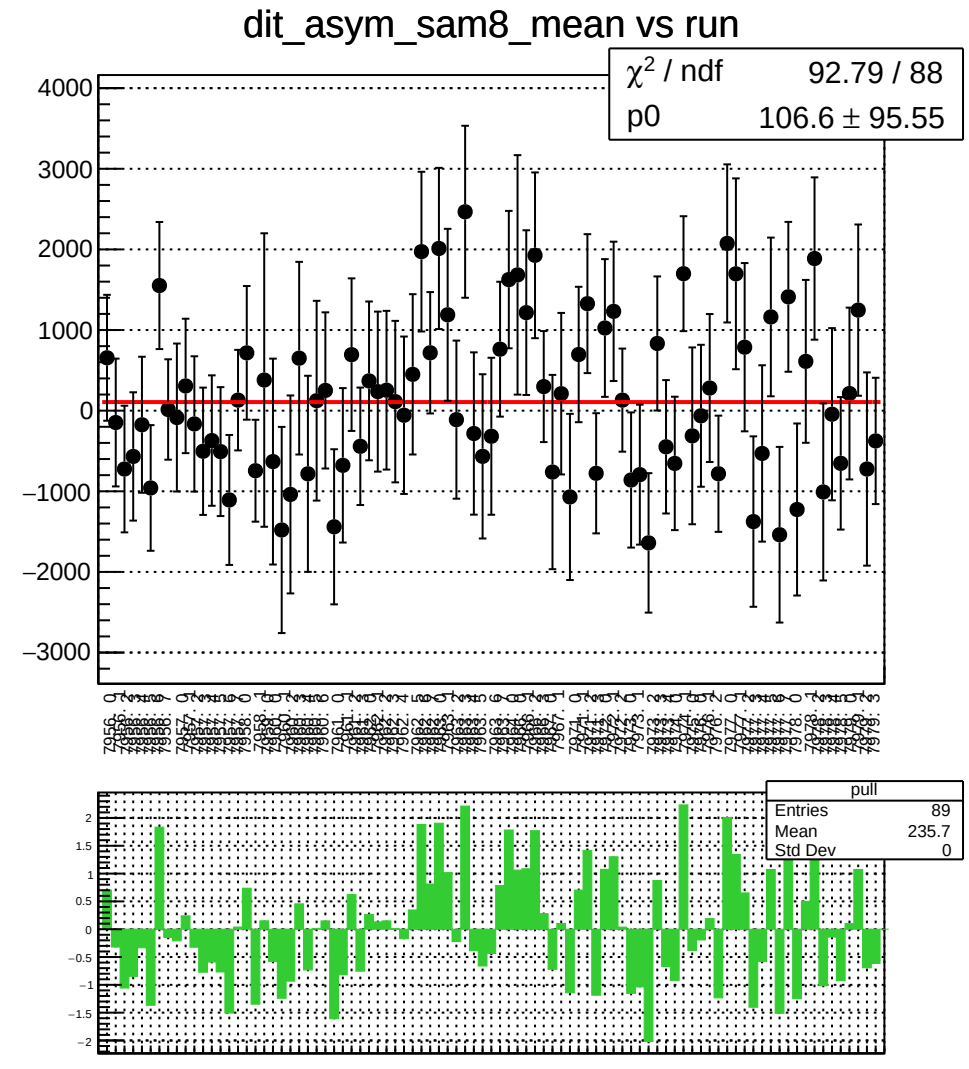

pull1D
Entries 89
Mean −0.01289
Std Dev 0.9457
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

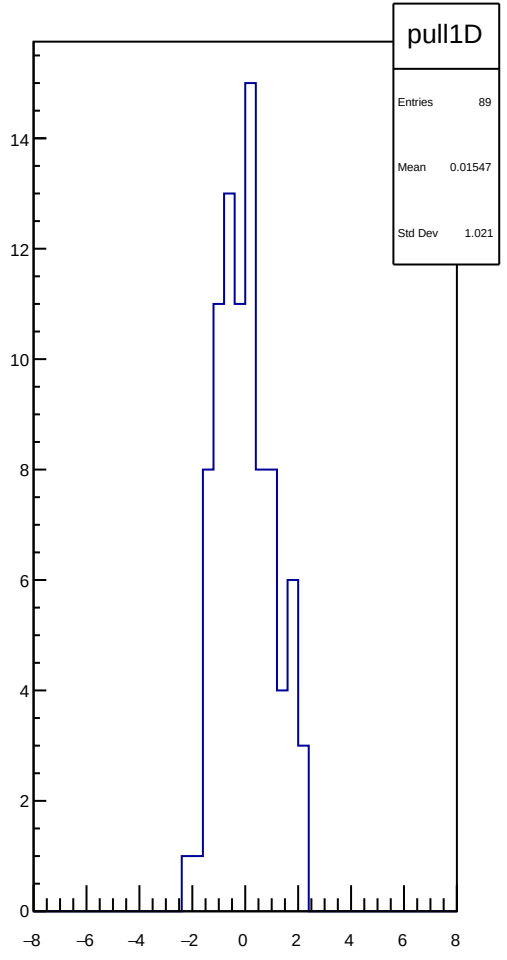

eigen_cor_asym_sam8_rms vs run
$\chi^2$ / ndf 6082 / 88
p0 72.45 ± 0.05423
95
90
85
80
75
70
65

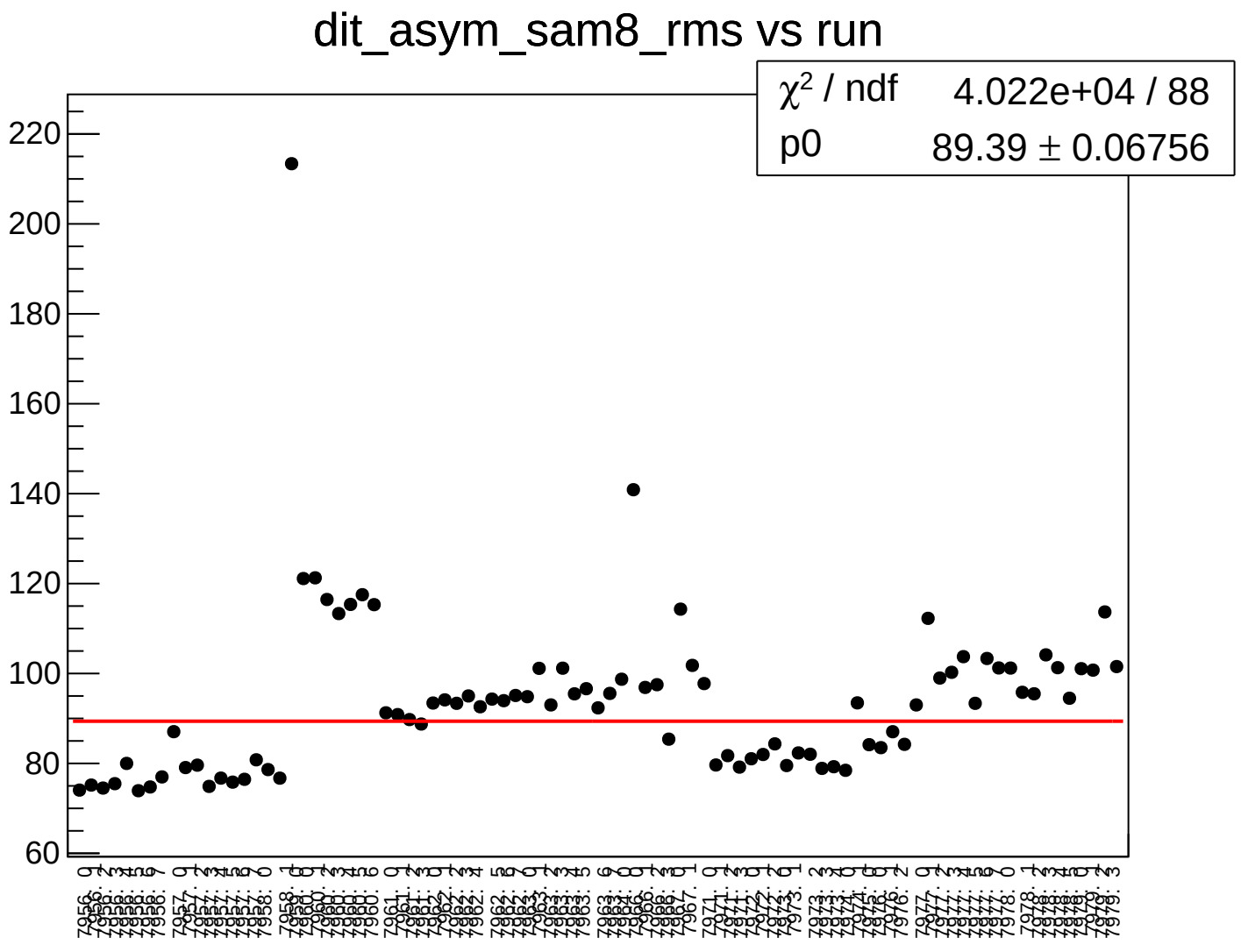

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 113.7 / 88
p0 362.5 ± 684.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 937.4
Std Dev 0
4
3
2
1
0
−1
−2

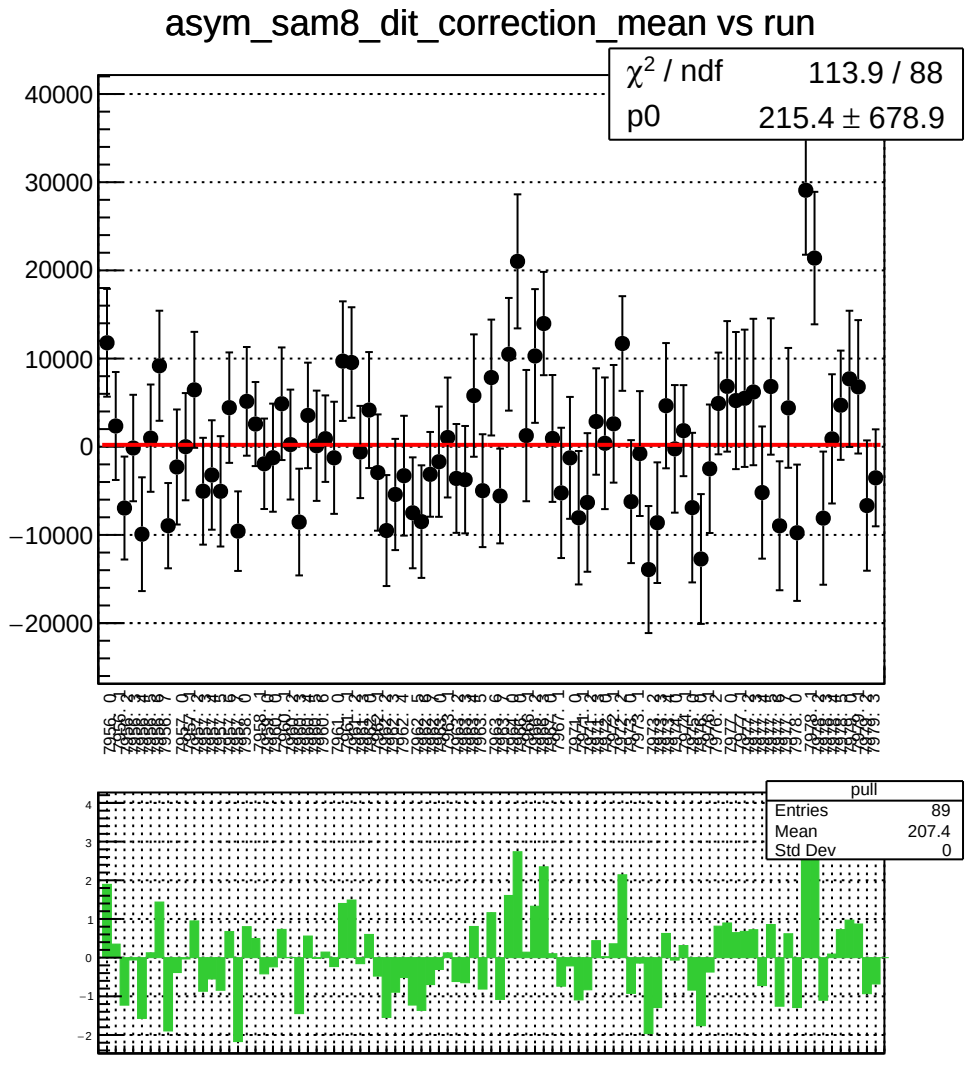

pull1D
Entries 89
Mean 0.004104
Std Dev 1.13
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

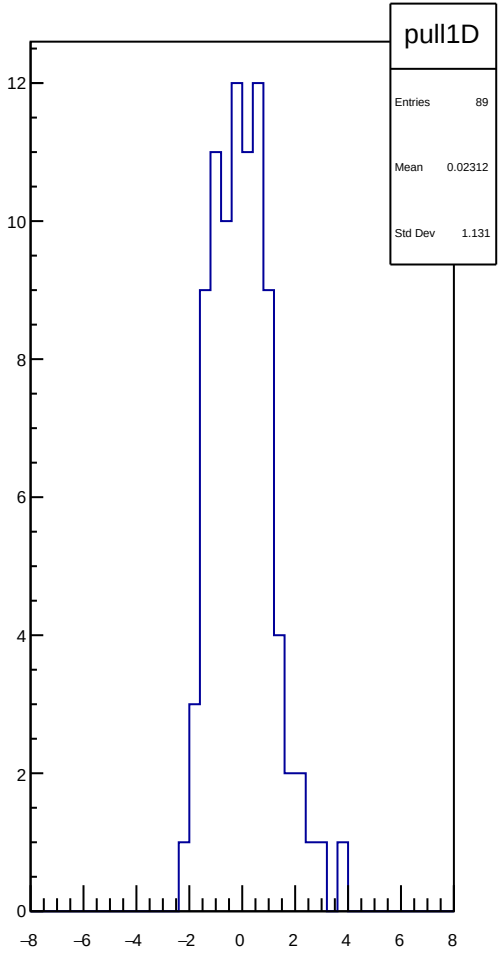

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 8949 / 88
p0 646.5 ± 0.4843
800
750
700
650
600
550

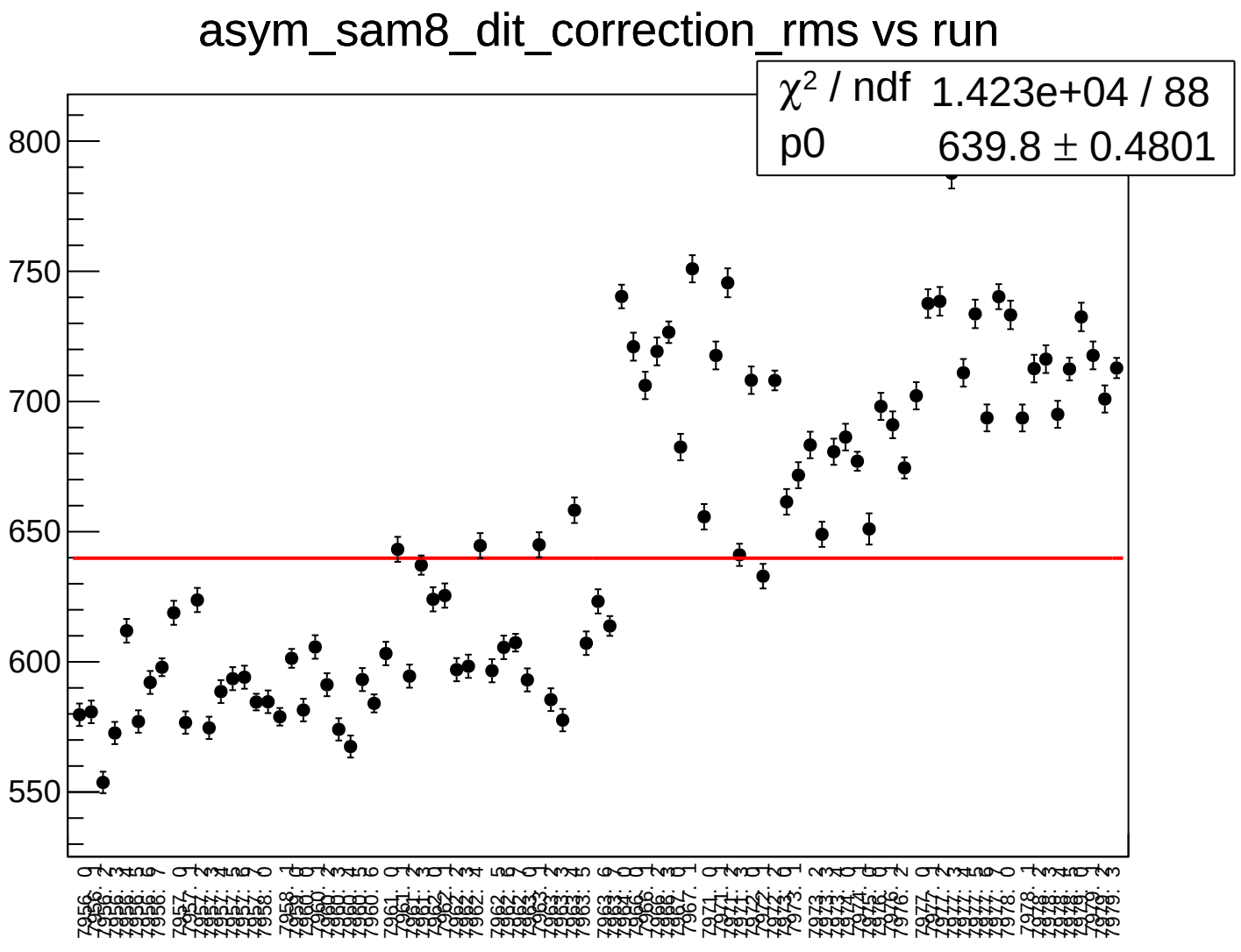

dit_asym_sam8_mean vs run
χ² / ndf 92.79 / 88
p0 106.6 ± 95.55
pull
Entries 89
Mean 235.7
Std Dev 0

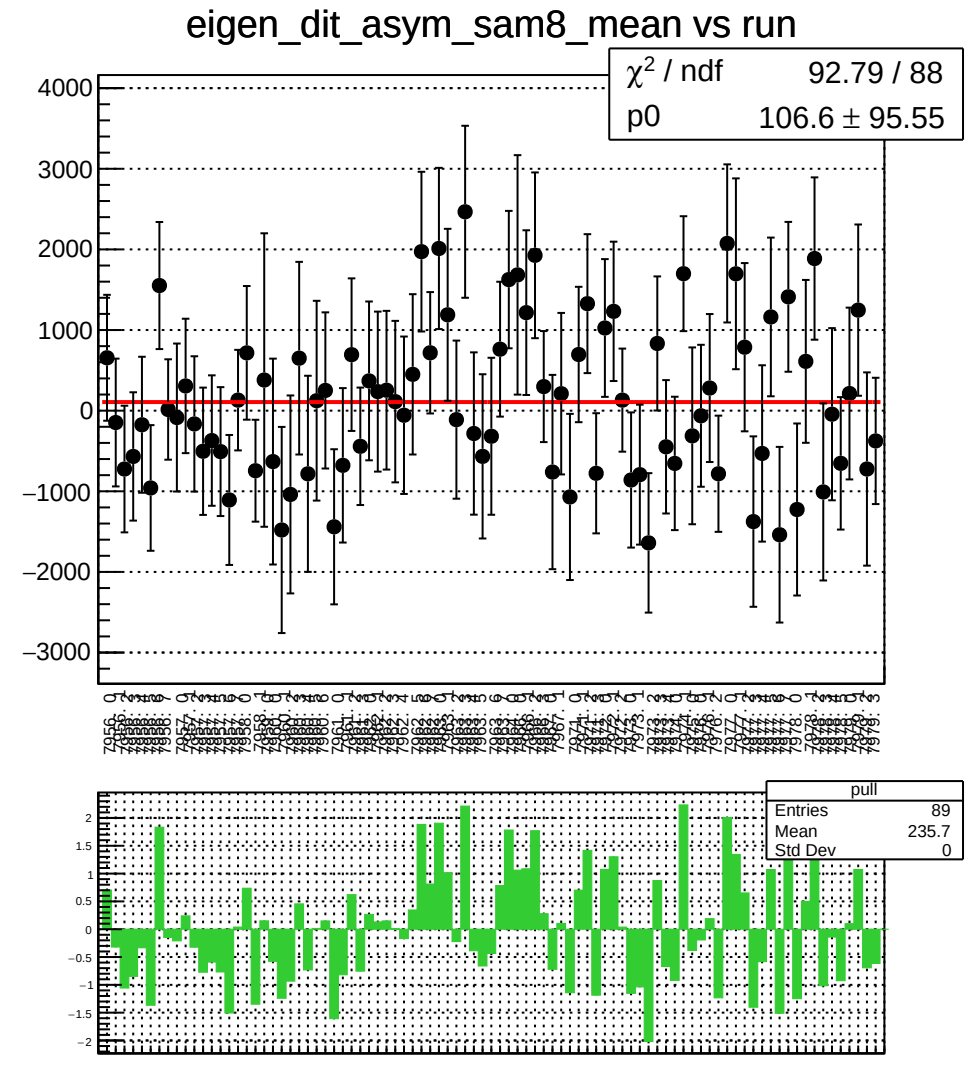

pull1D
Entries 89
Mean 0.01547
Std Dev 1.021

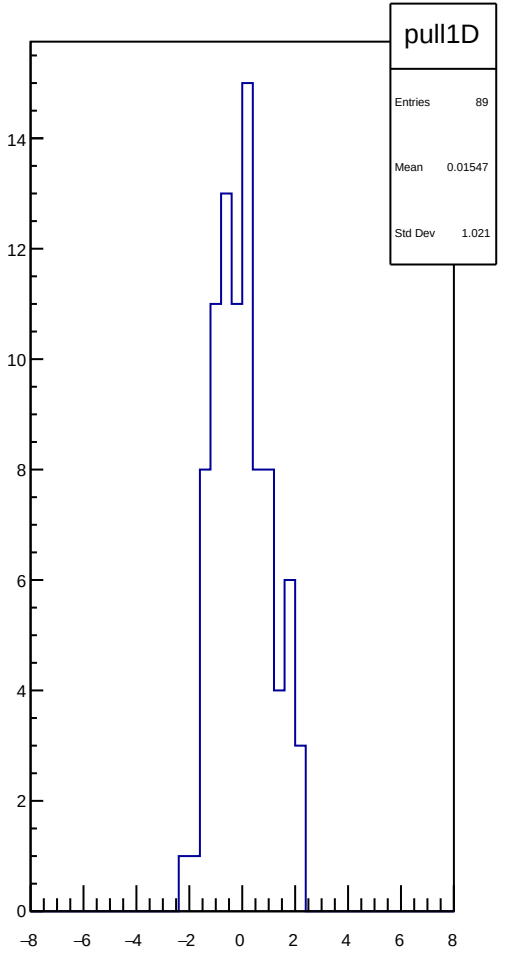

dit_asym_sam8_rms vs run
$\chi^2$ / ndf 4.022e+04 / 88
p0 89.39 ± 0.06756
220
200
180
160
140
120
100
80
60

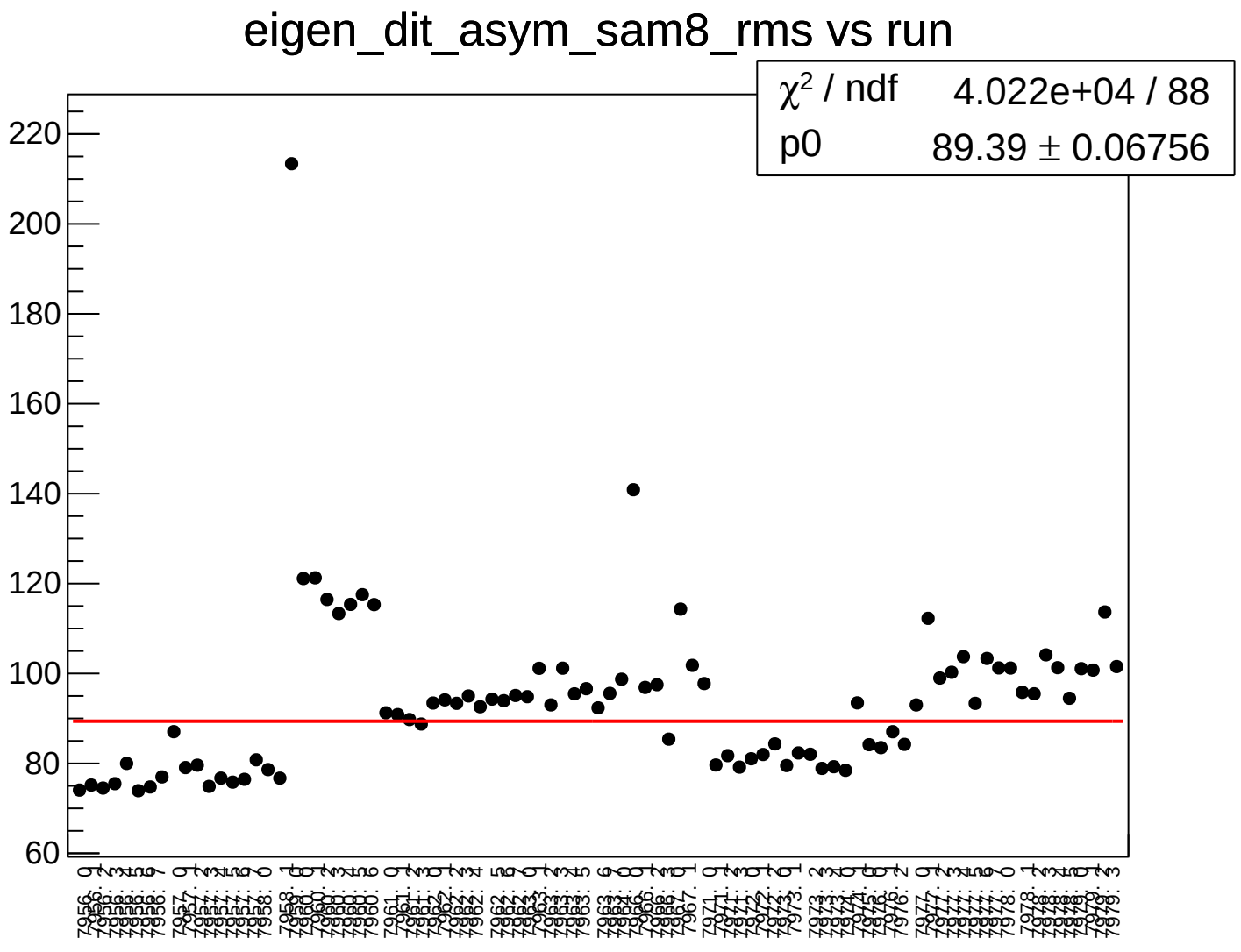

asym_sam8_dit_correction_mean vs run
χ² / ndf 113.9 / 88
p0 215.4 ± 678.9
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 207.4
Std Dev 0
4
3
2
1
0
−1
−2

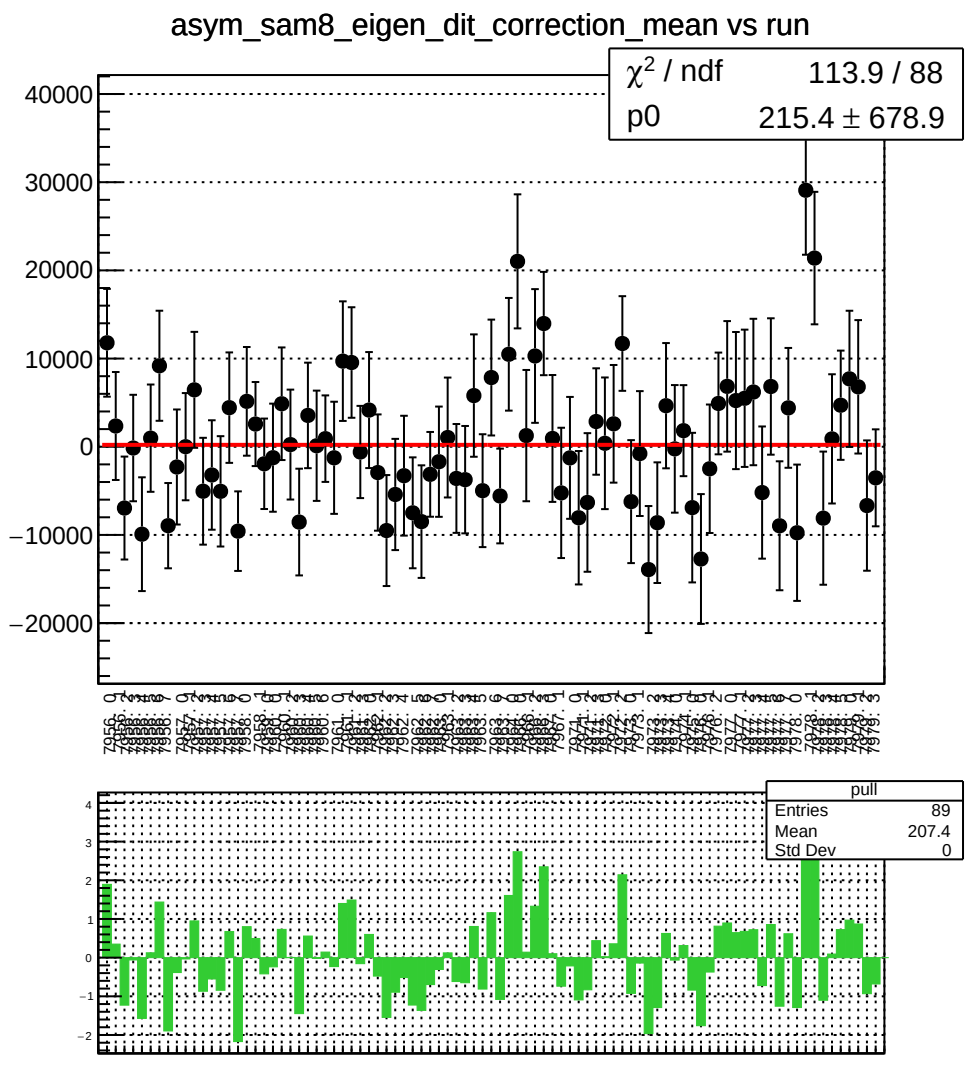

pull1D
Entries 89
Mean 0.02312
Std Dev 1.131
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

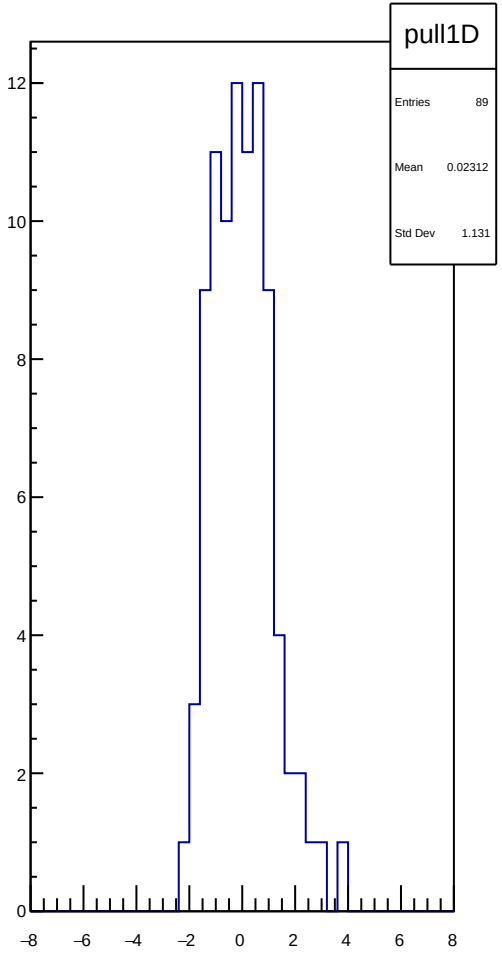

asym_sam8_dit_correction_rms vs run
χ² / ndf 1.423e+04 / 88
p0 639.8 ± 0.4801
800
750
700
650
600
550

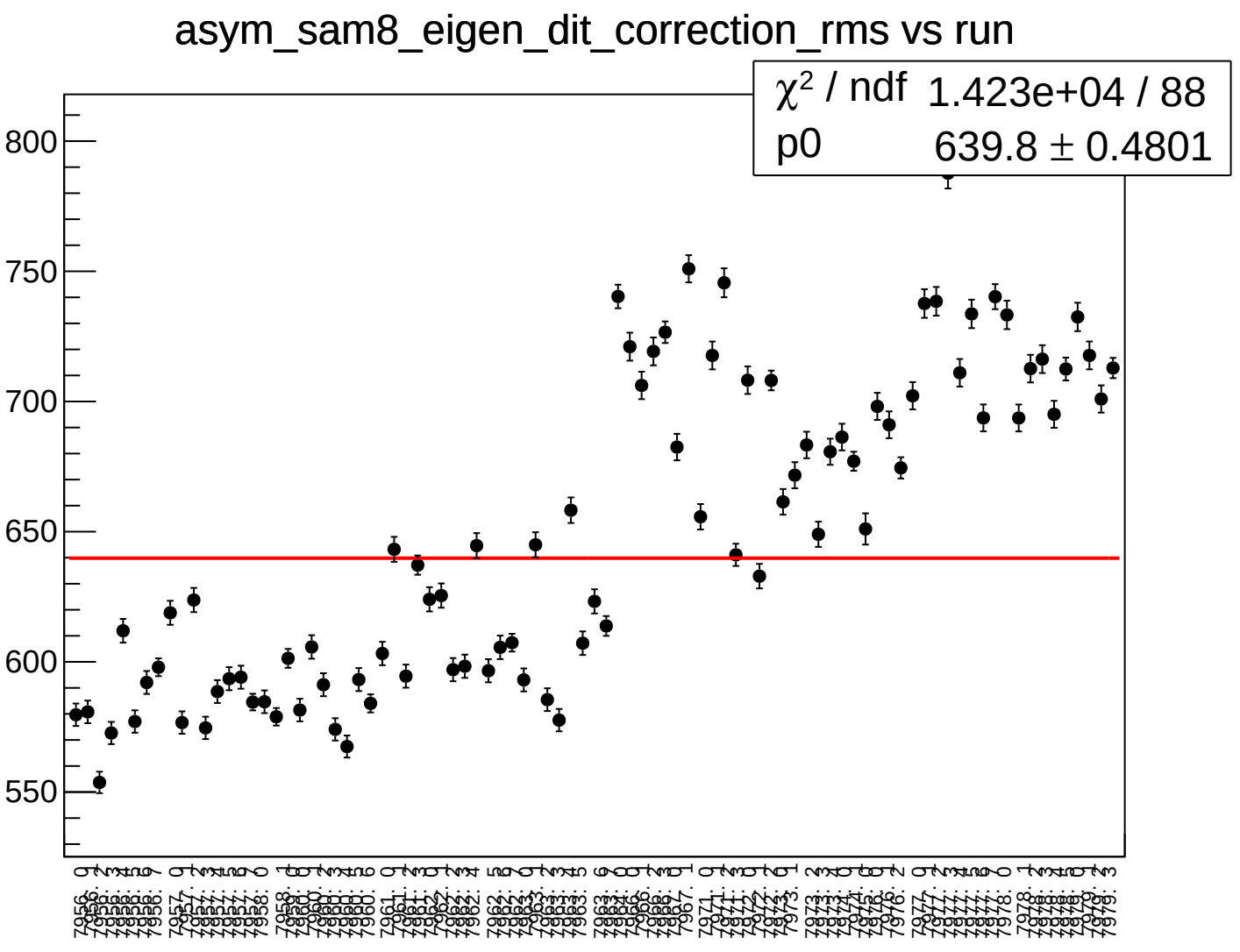

eigen_dit_asym_sam8_mean vs run
χ² / ndf 92.79 / 88
p0 106.6 ± 95.55
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 235.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

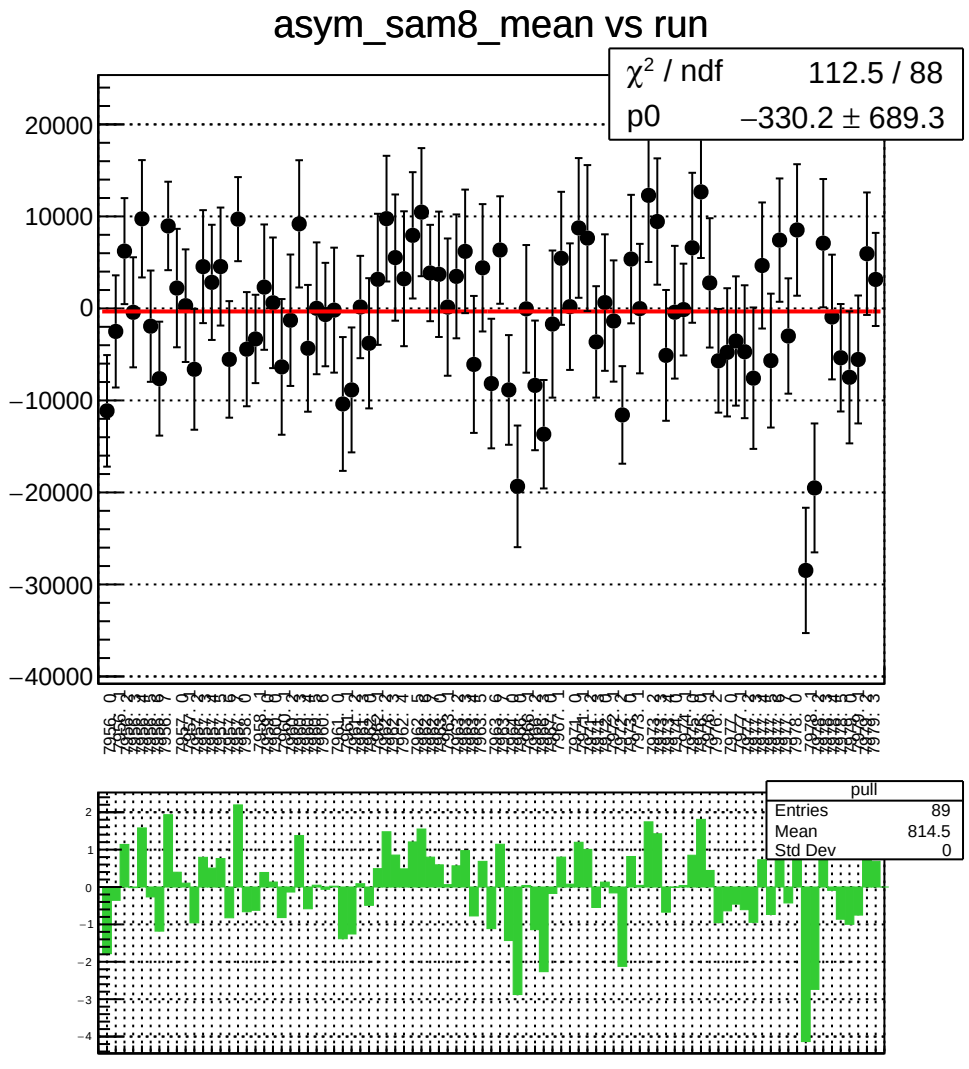

pull1D
Entries 89
Mean 0.01547
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

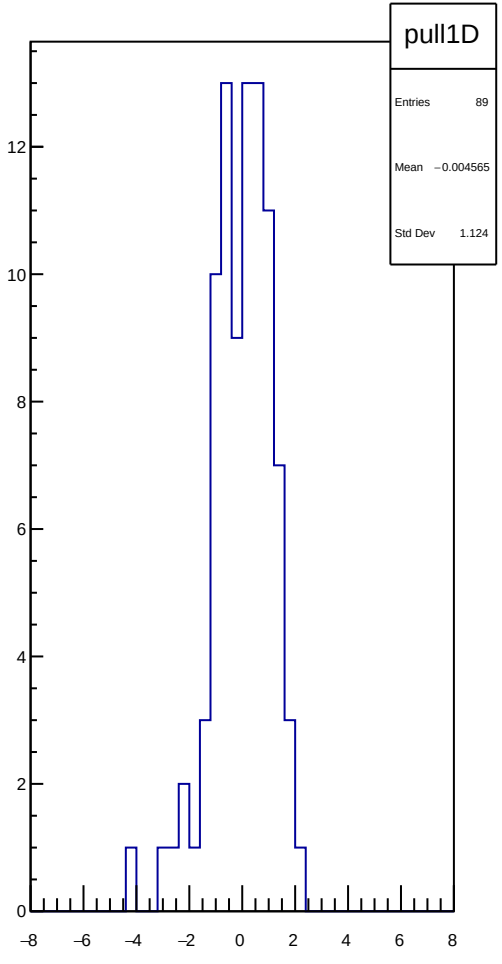

eigen_dit_asym_sam8_rms vs run
χ² / ndf 4.022e+04 / 88
p0 89.39 ± 0.06756
220
200
180
160
140
120
100
80
60

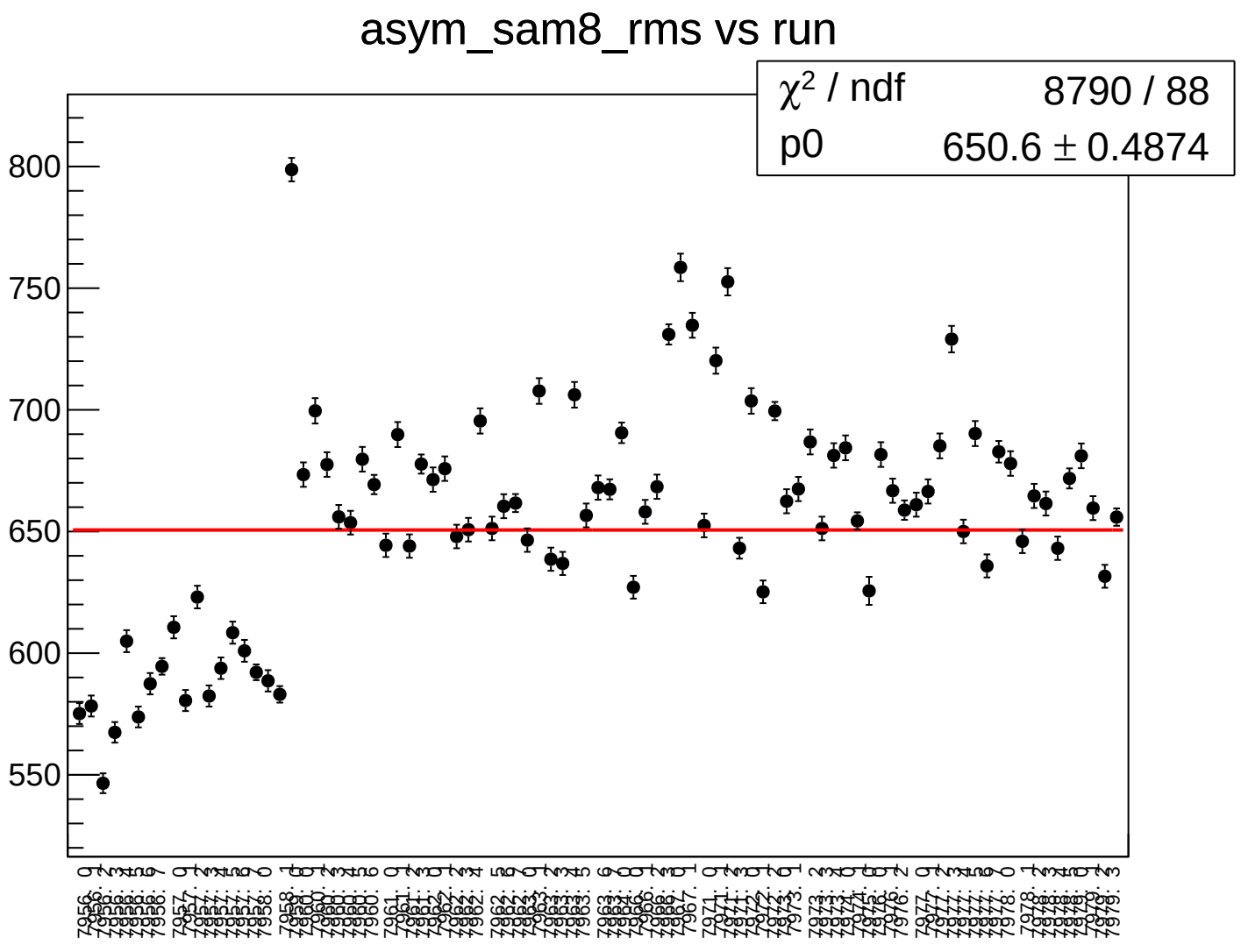

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 113.9 / 88
p0 215.4 ± 678.9
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 207.4
Std Dev 0
4
3
2
1
0
−1
−2

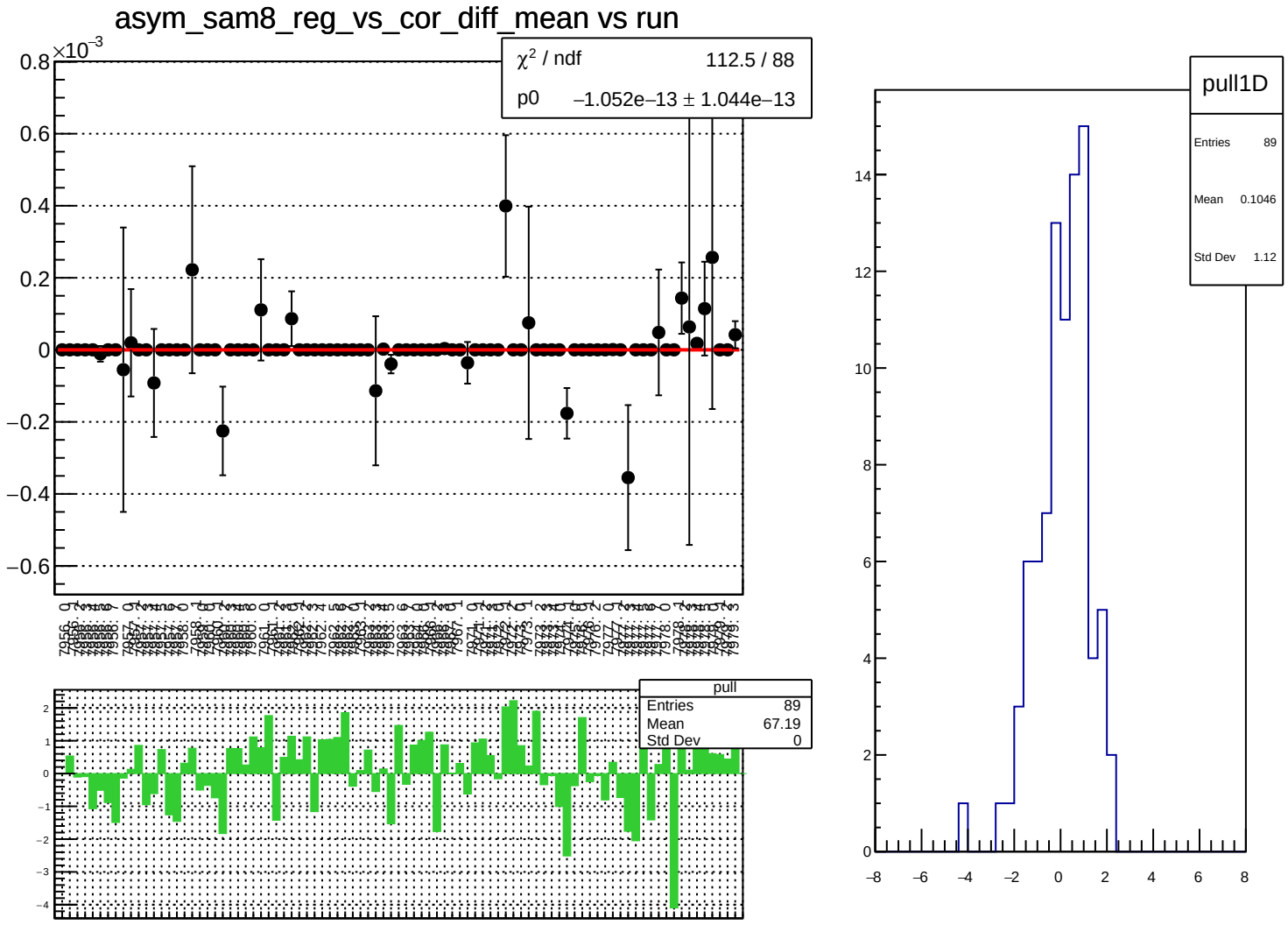

pull1D
Entries 89
Mean 0.02312
Std Dev 1.131
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

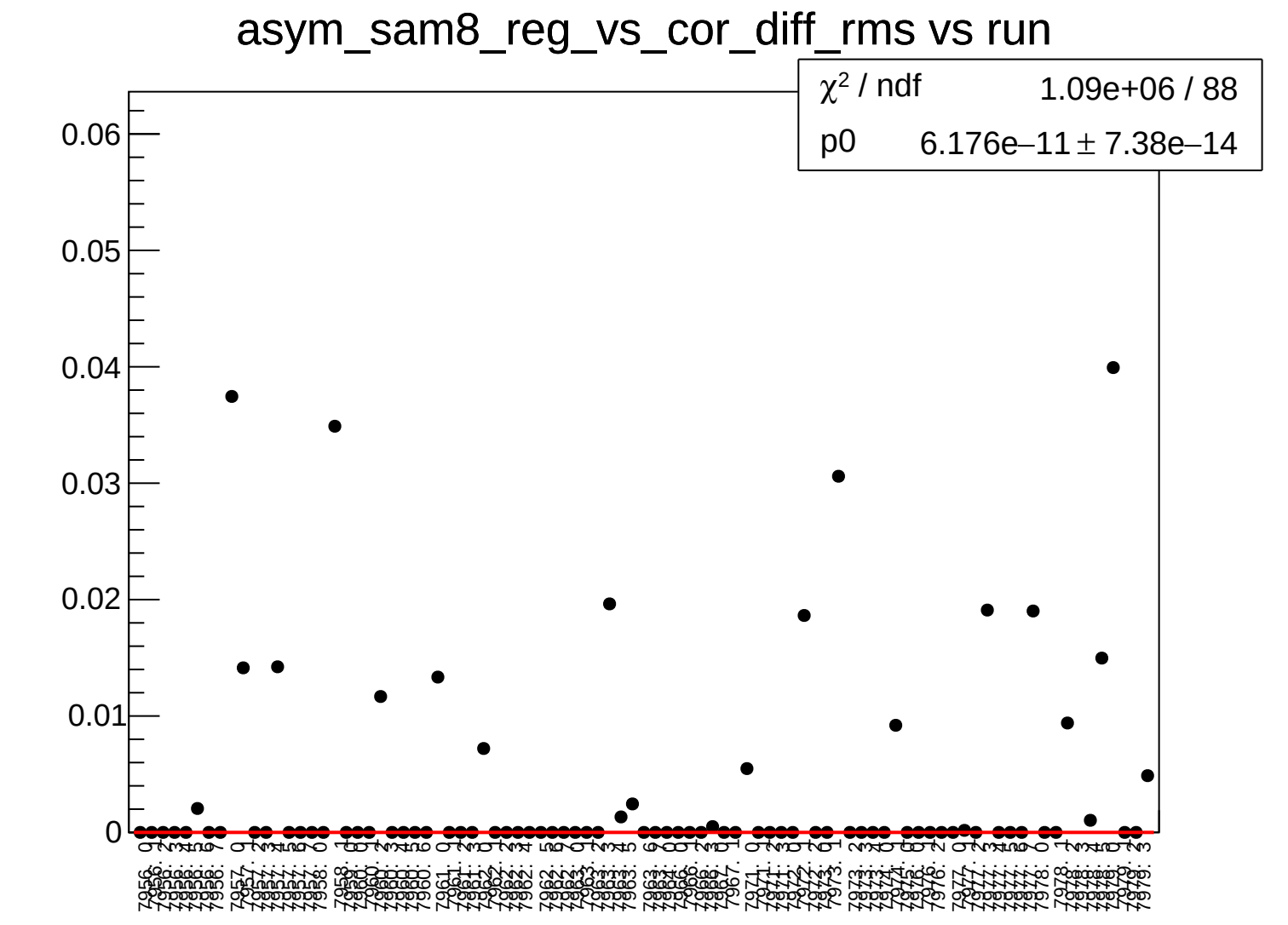

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1.423e+04 / 88
p0 639.8 ± 0.4801
800
750
700
650
600
550

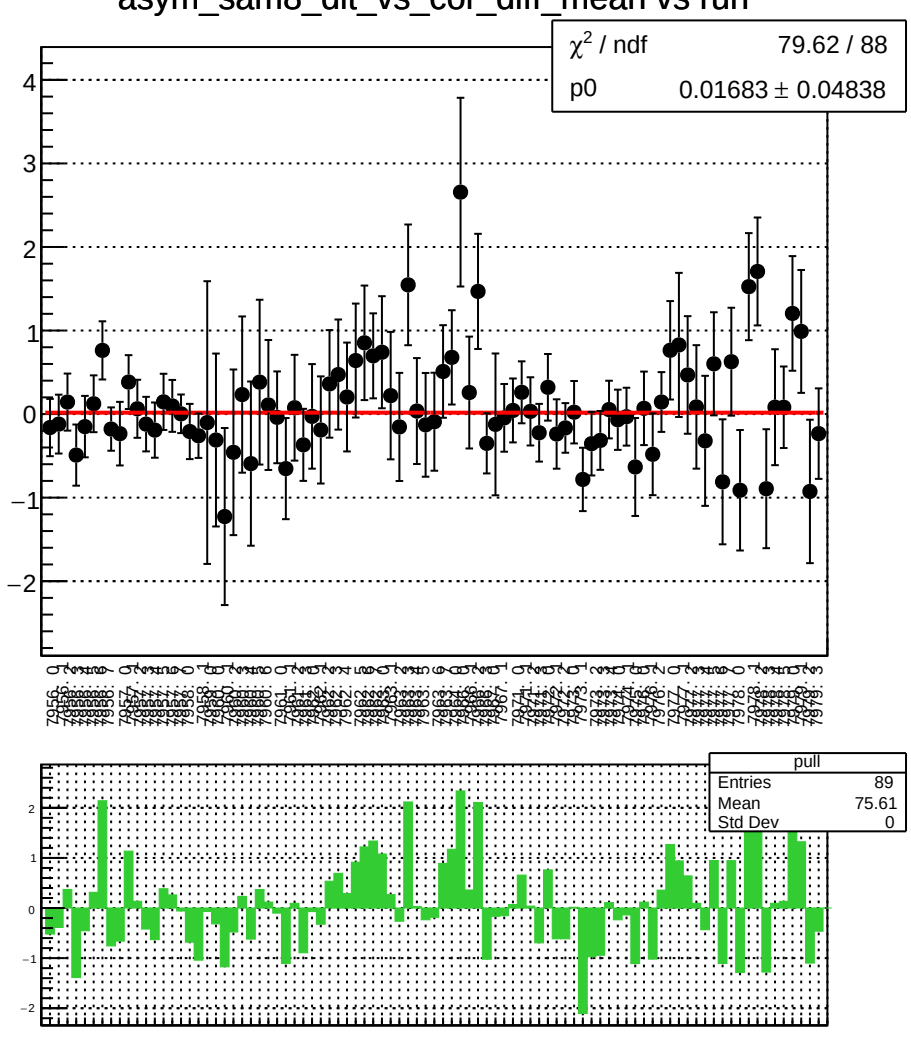

asym_sam8_mean vs run
χ² / ndf 112.5 / 88
p0 −330.2 ± 689.3
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 814.5
Std Dev 0
2
1
0
−1
−2
−3
−4

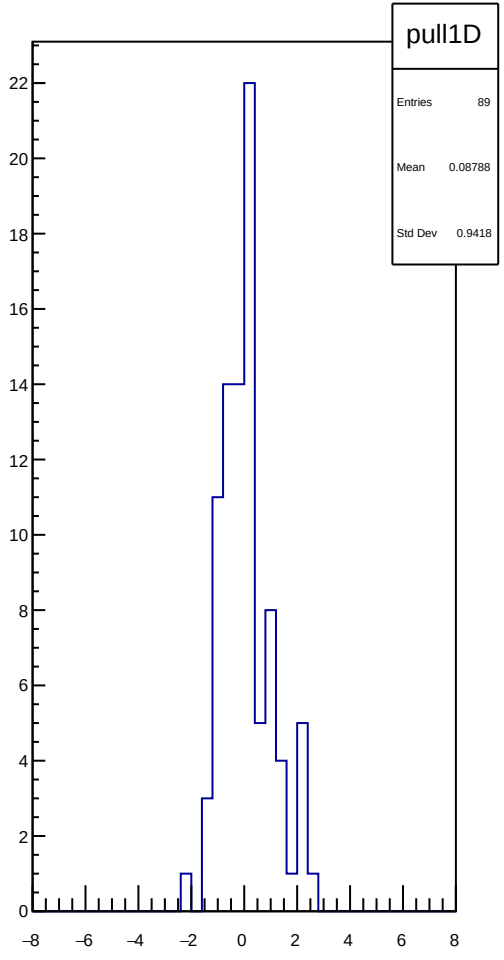

pull1D
Entries 89
Mean −0.004565
Std Dev 1.124
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

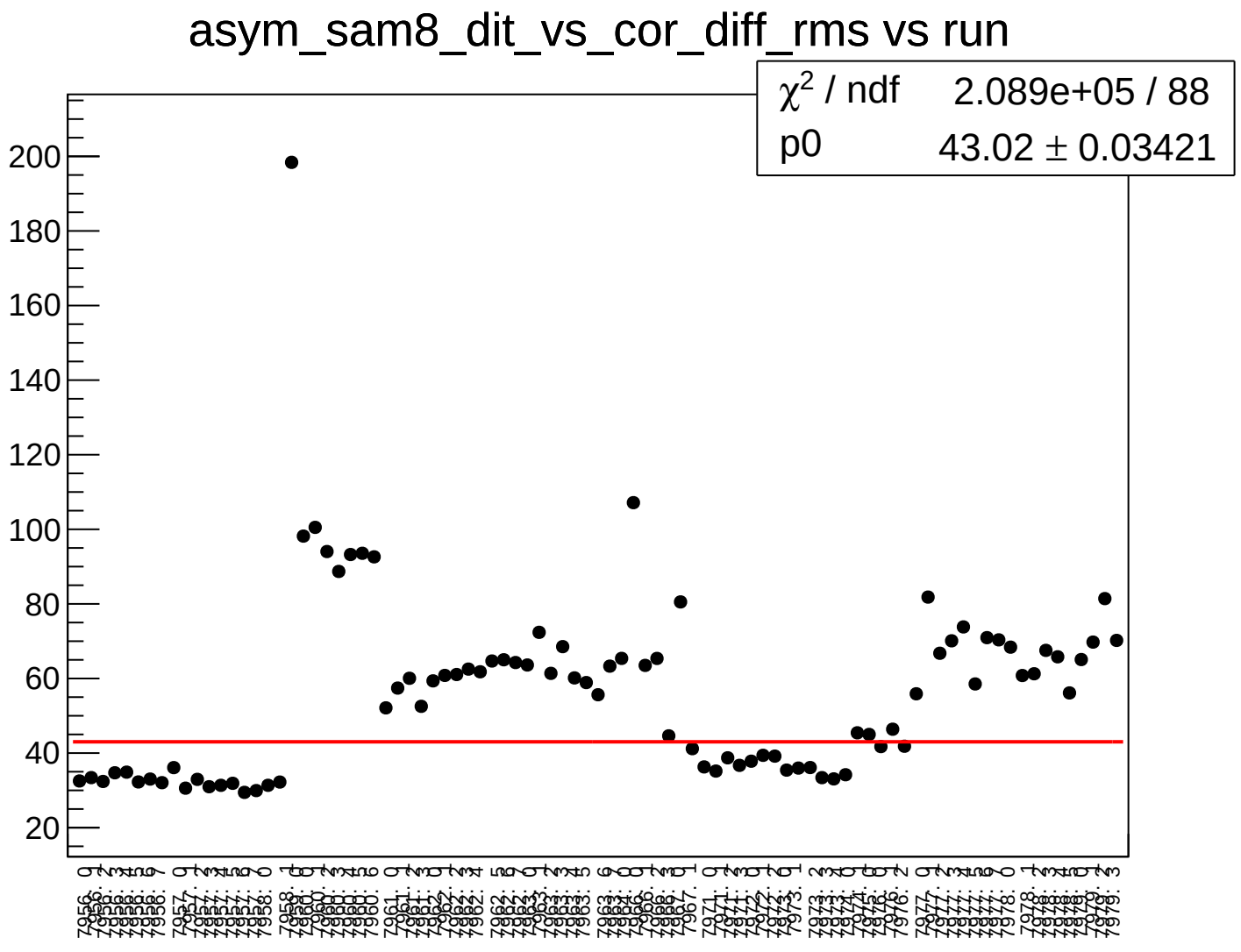

asym_sam8_rms vs run
χ² / ndf 8790 / 88
p0 650.6 ± 0.4874
800
750
700
650
600
550

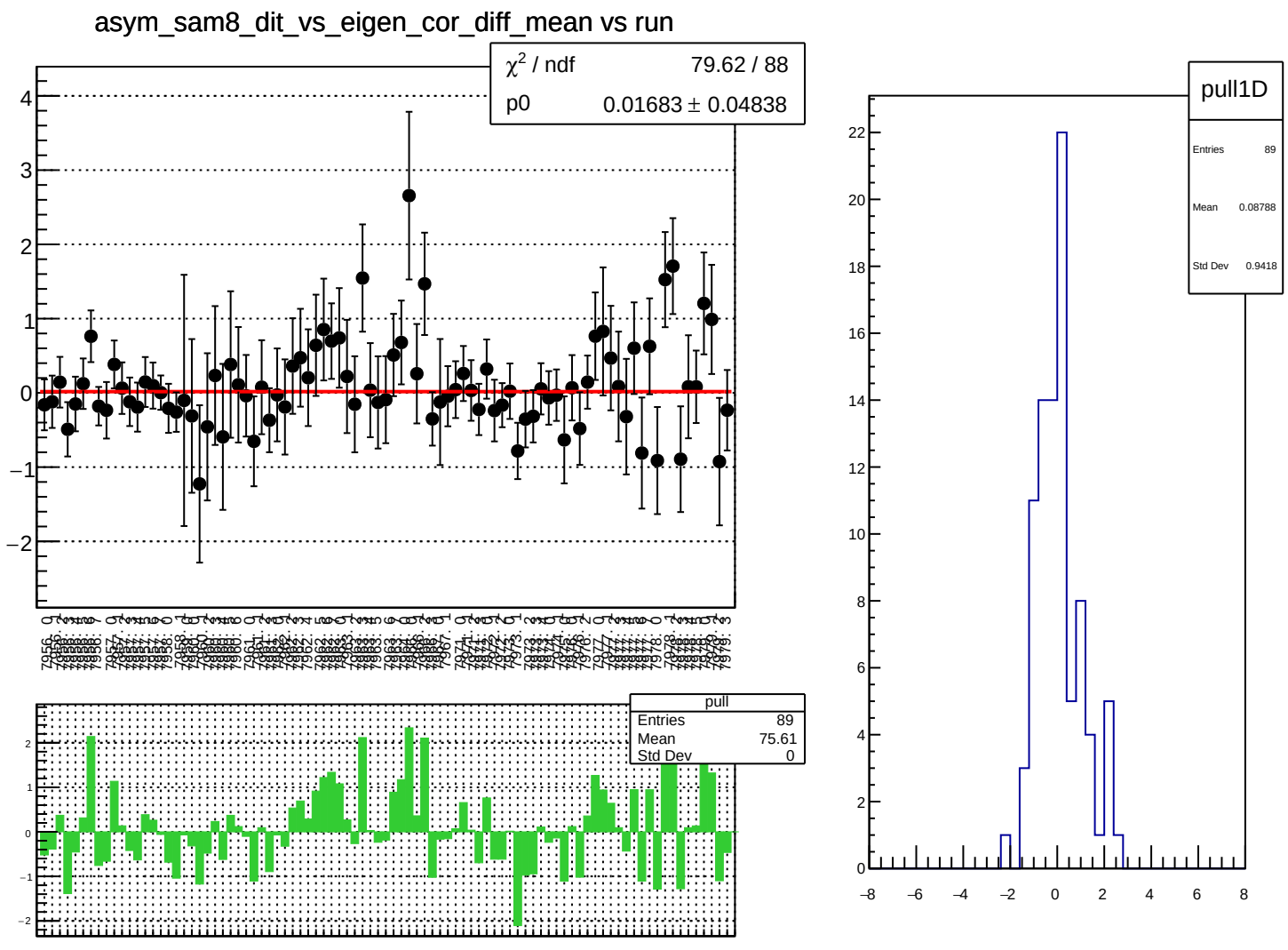

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 112.5 / 88
p0 −1.052e−13 ± 1.044e−13
pull
Entries 89
Mean 67.19
Std Dev 0
pull1D
Entries 89
Mean 0.1046
Std Dev 1.12

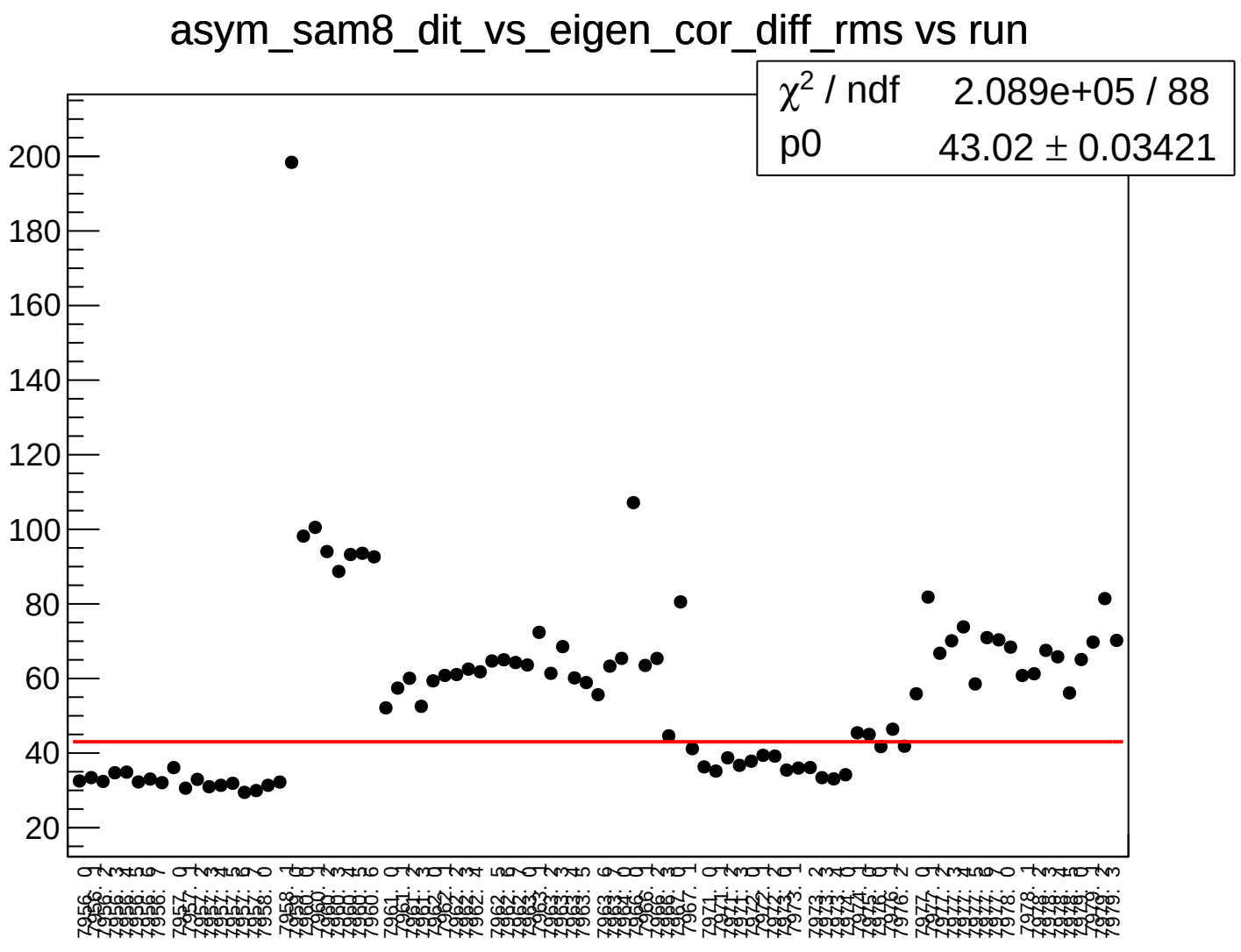

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 88
p0 6.176e−11 ± 7.38e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

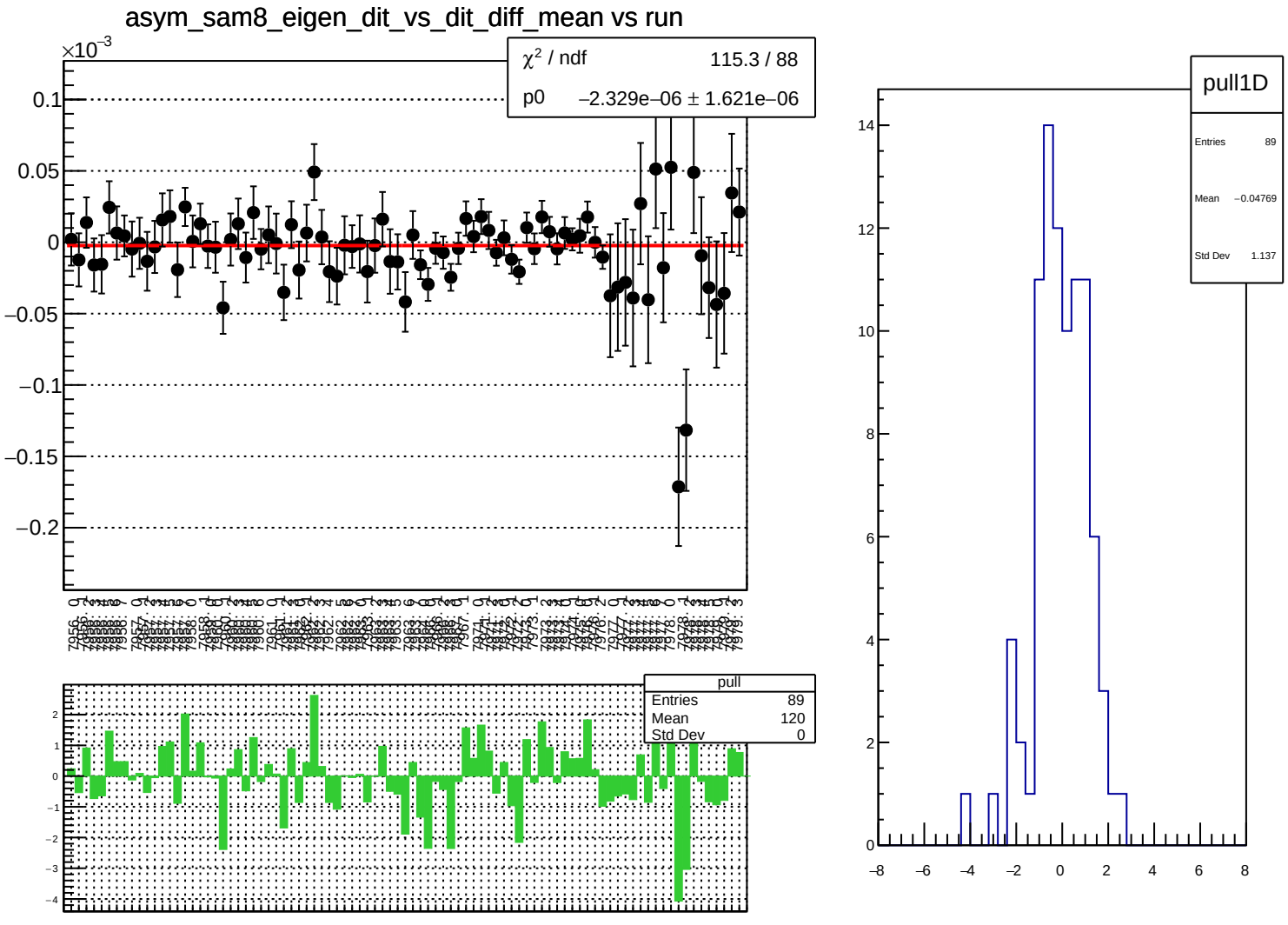

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 79.62 / 88
p0 0.01683 ± 0.04838
pull
Entries 89
Mean 75.61
Std Dev 0

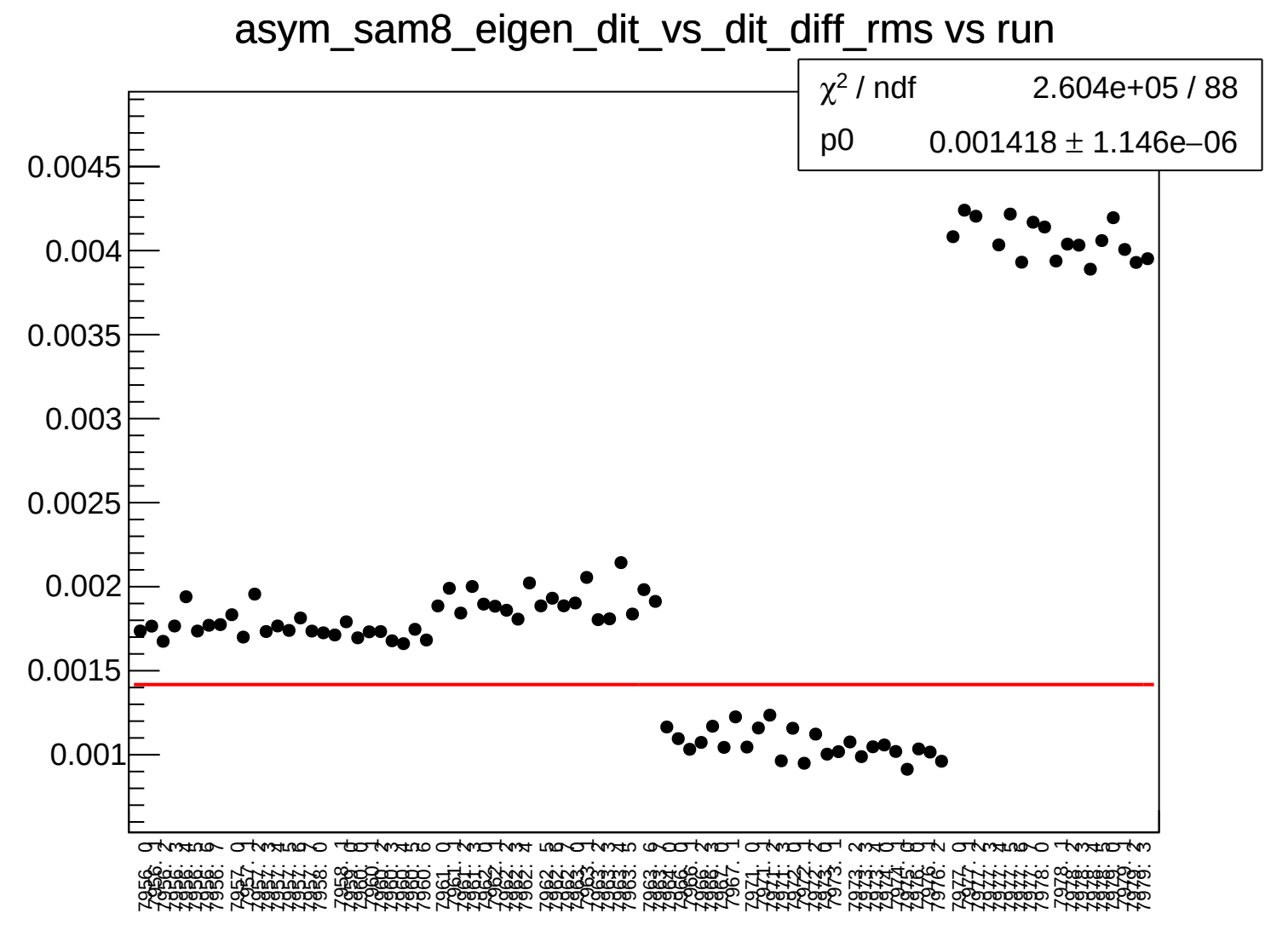

pull1D
Entries 89
Mean 0.08788
Std Dev 0.9418

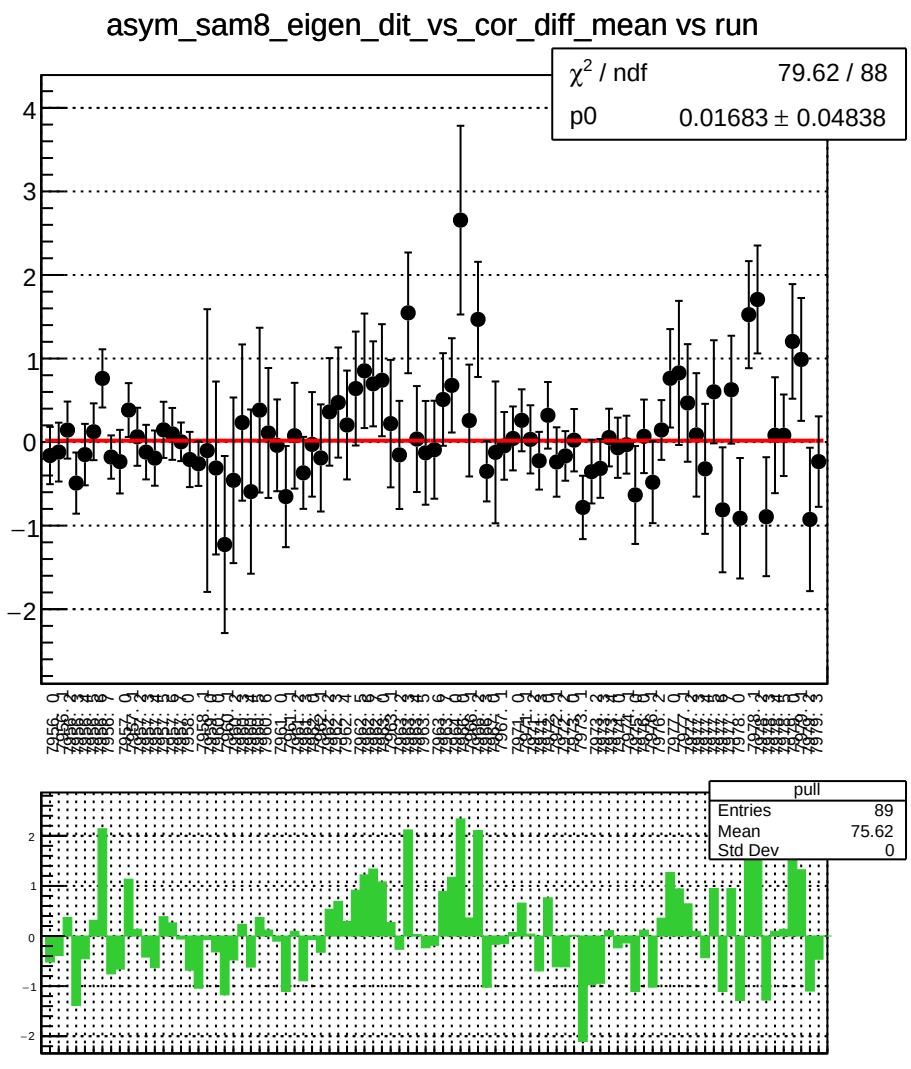

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 2.089e+05 / 88
p0 43.02 ± 0.03421
200
180
160
140
120
100
80
60
40
20

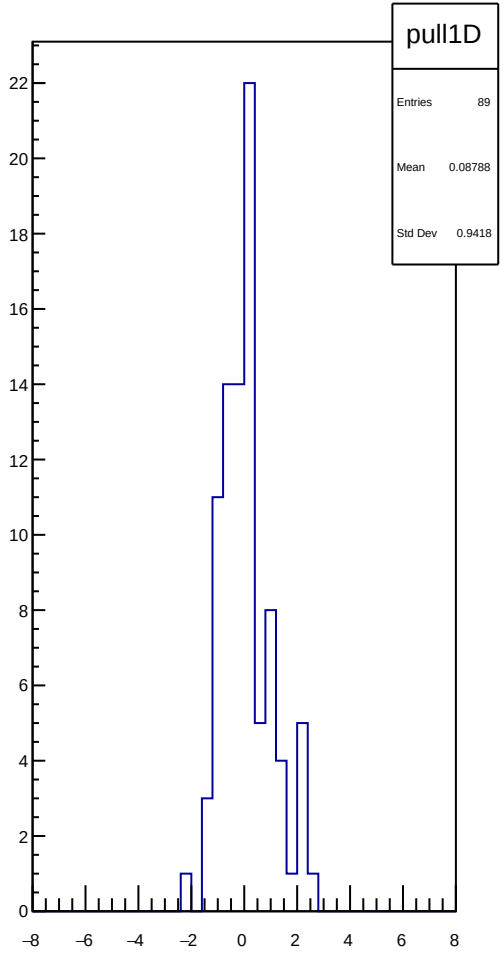

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.62 / 88
p0 0.01683 ± 0.04838
pull
Entries 89
Mean 75.61
Std Dev 0
pull1D
Entries 89
Mean 0.08788
Std Dev 0.9418

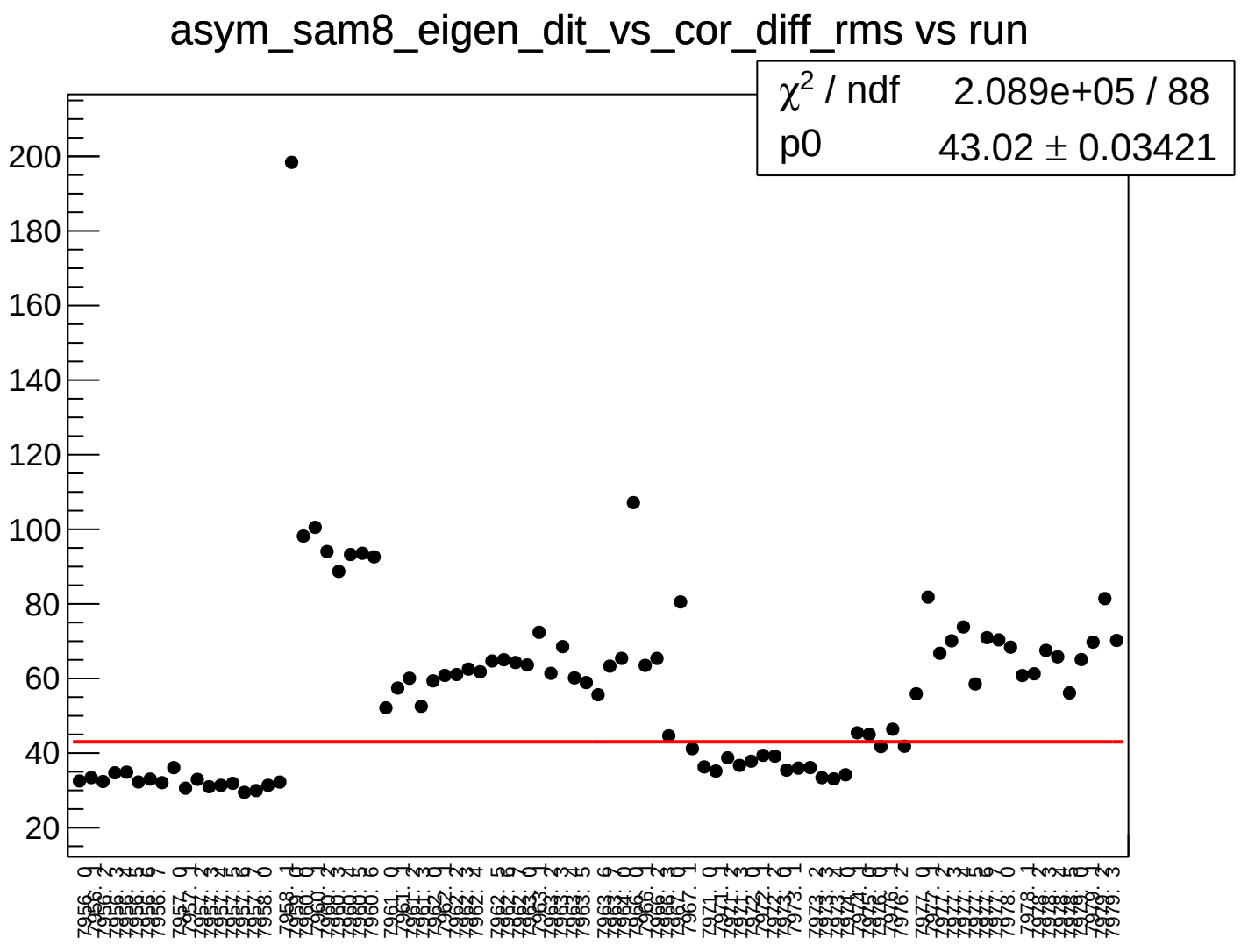

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.089e+05 / 88
p0 43.02 ± 0.03421
200
180
160
140
120
100
80
60
40
20

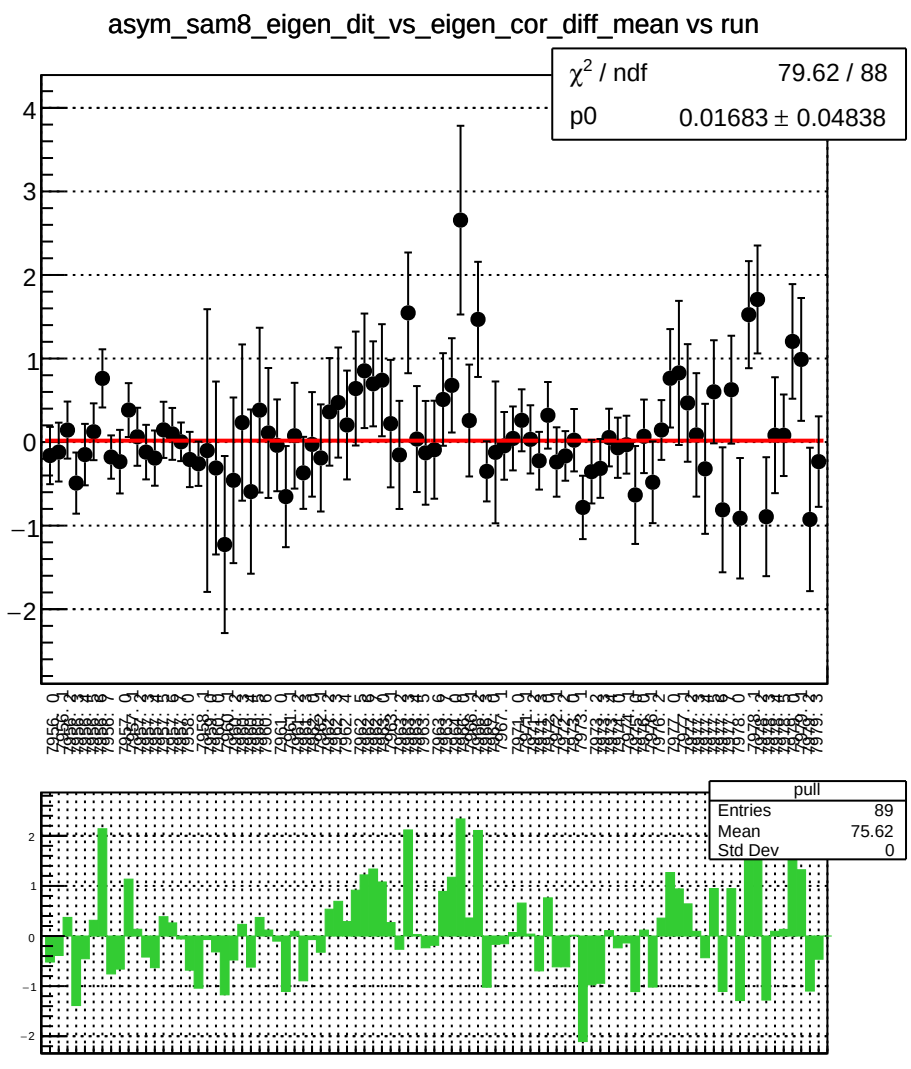

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.3 / 88
p0 −2.329e−06 ± 1.621e−06
pull
Entries 89
Mean 120
Std Dev 0
pull1D
Entries 89
Mean −0.04769
Std Dev 1.137

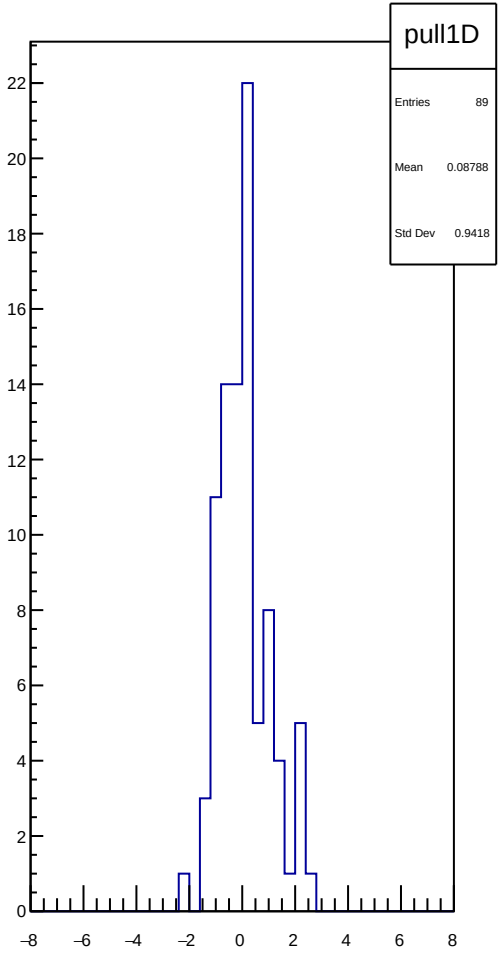

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.604e+05 / 88
p0 0.001418 ± 1.146e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

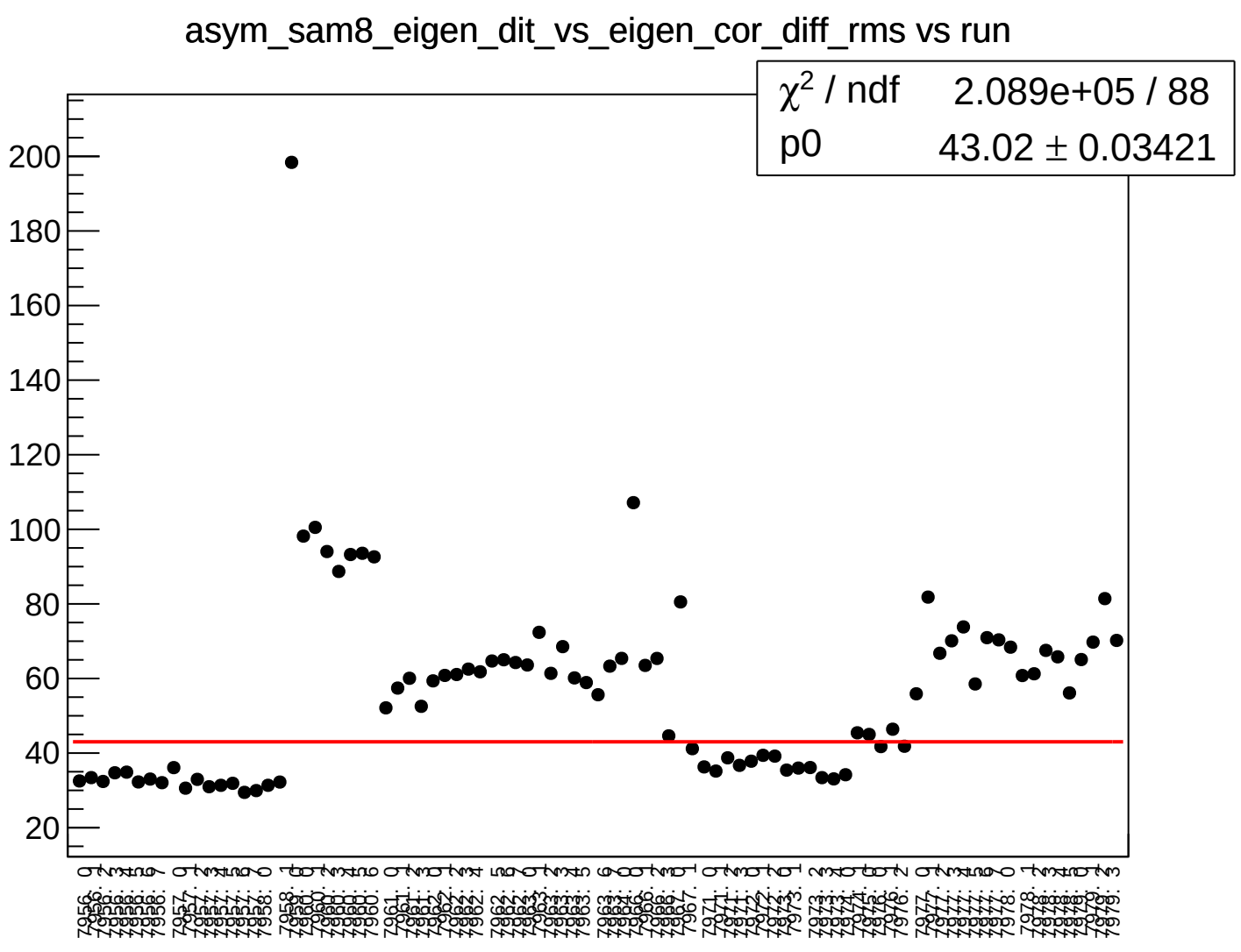

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.62 / 88
p0 0.01683 ± 0.04838
pull
Entries 89
Mean 75.62
Std Dev 0

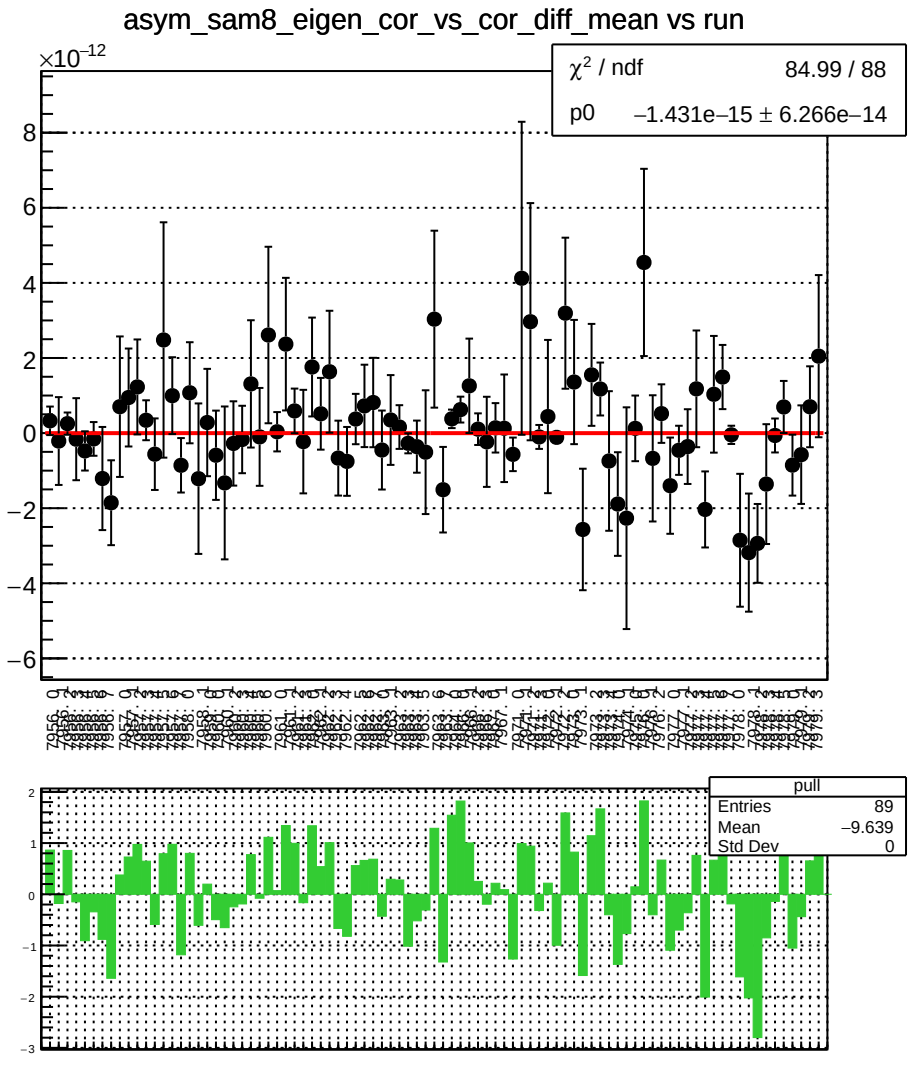

pull1D
Entries 89
Mean 0.08788
Std Dev 0.9418

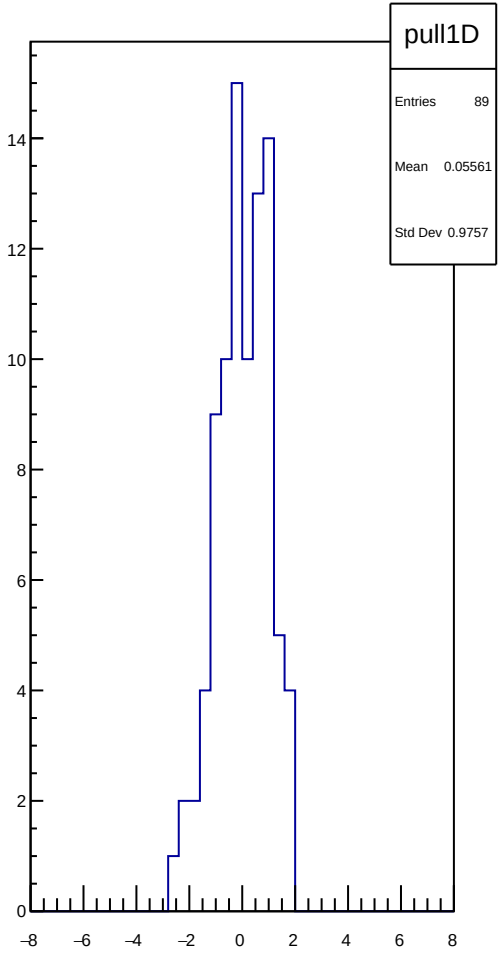

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.089e+05 / 88
p0 43.02 ± 0.03421
200
180
160
140
120
100
80
60
40
20

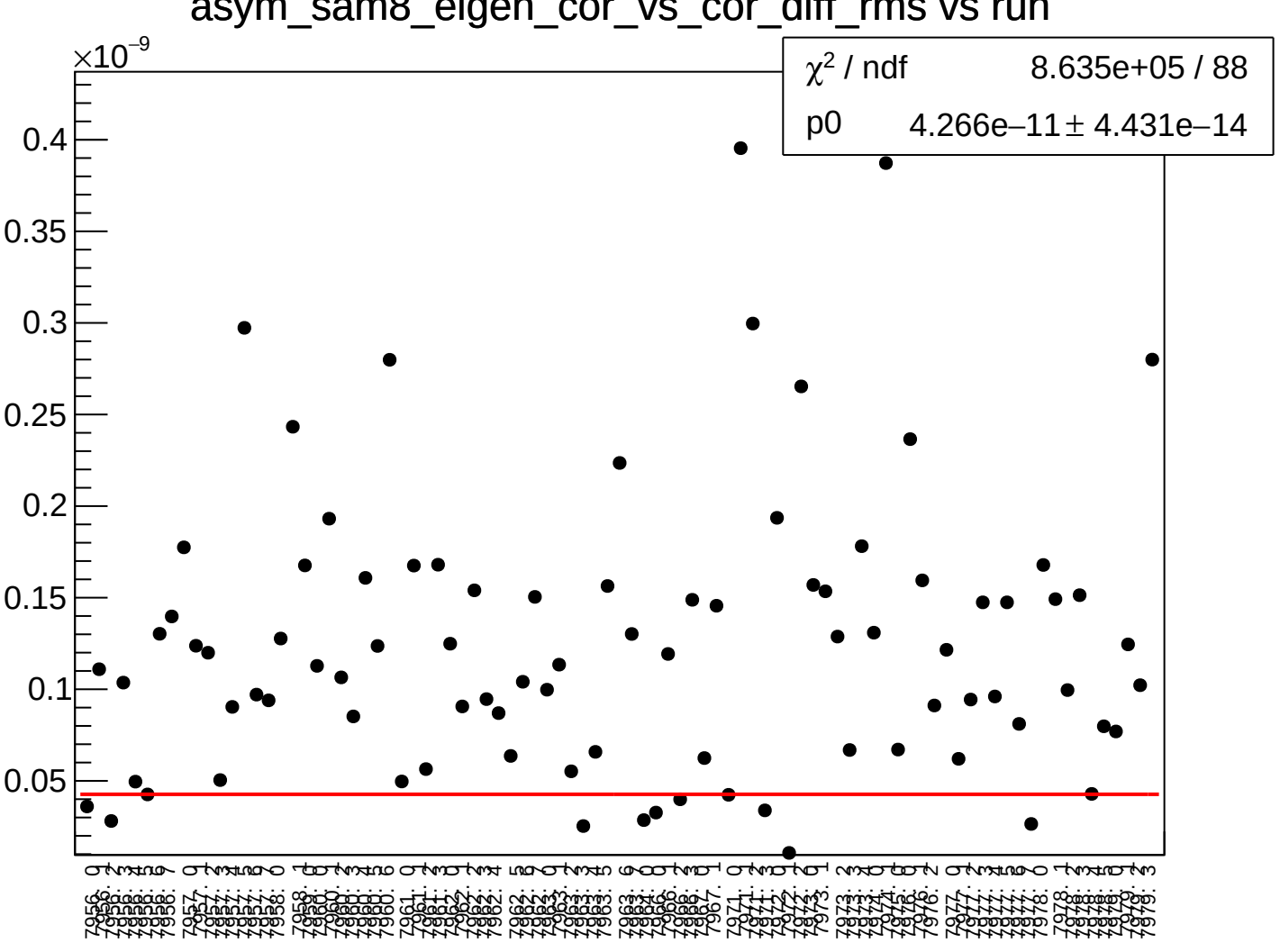

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.62 / 88
p0 0.01683 ± 0.04838
pull
Entries 89
Mean 75.62
Std Dev 0

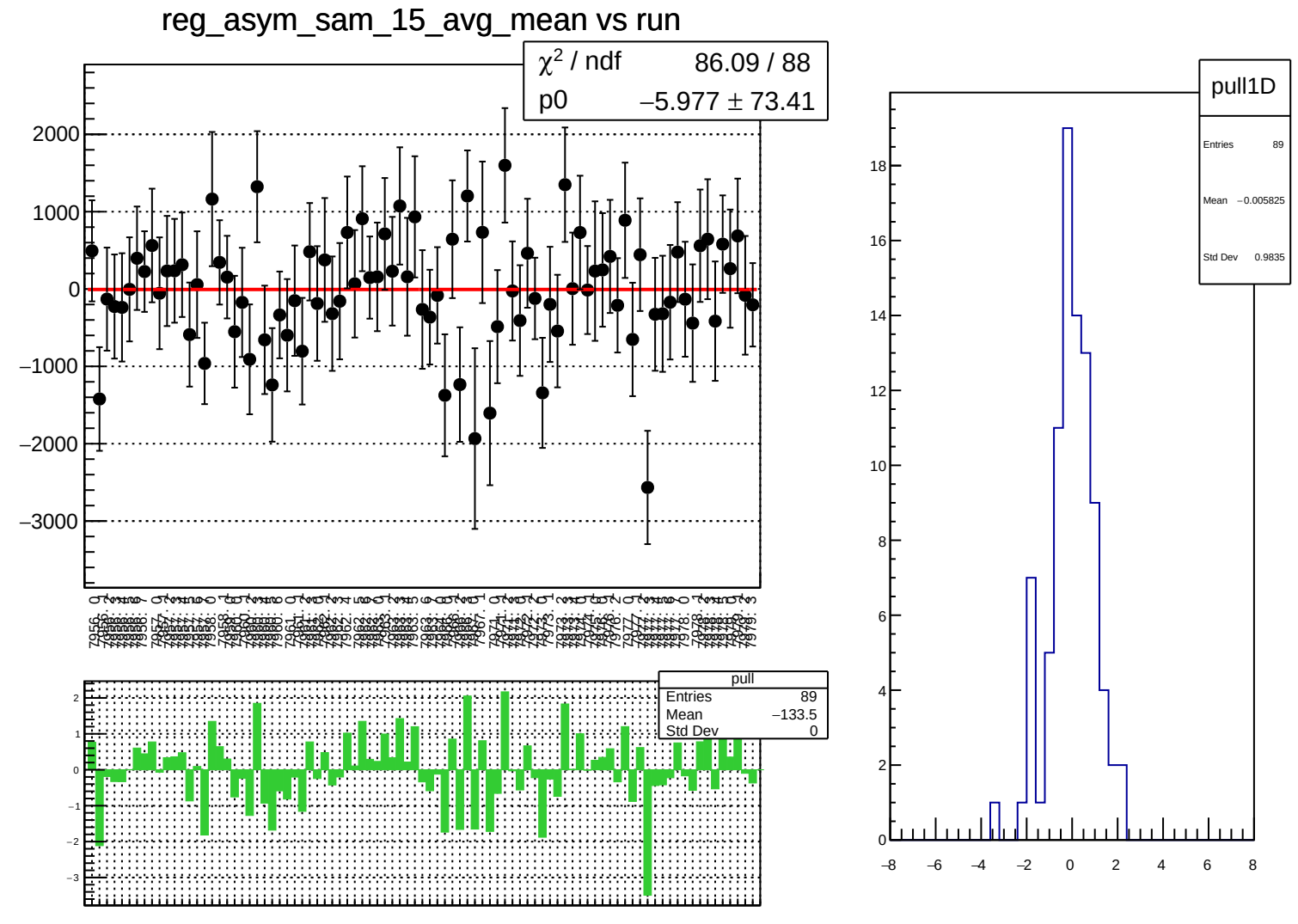

pull1D
Entries 89
Mean 0.08788
Std Dev 0.9418

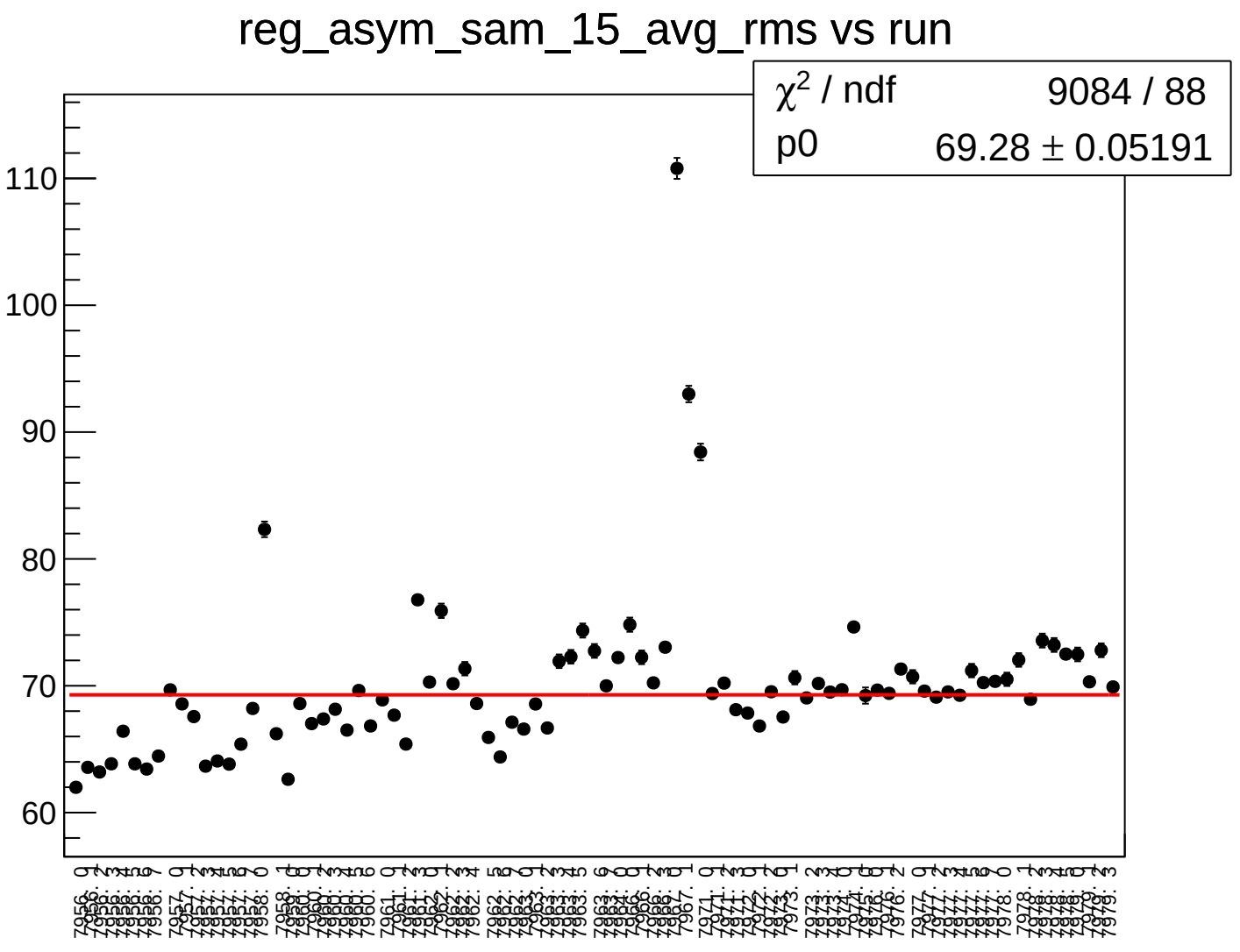

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.089e+05 / 88
p0 43.02 ± 0.03421
200
180
160
140
120
100
80
60
40
20

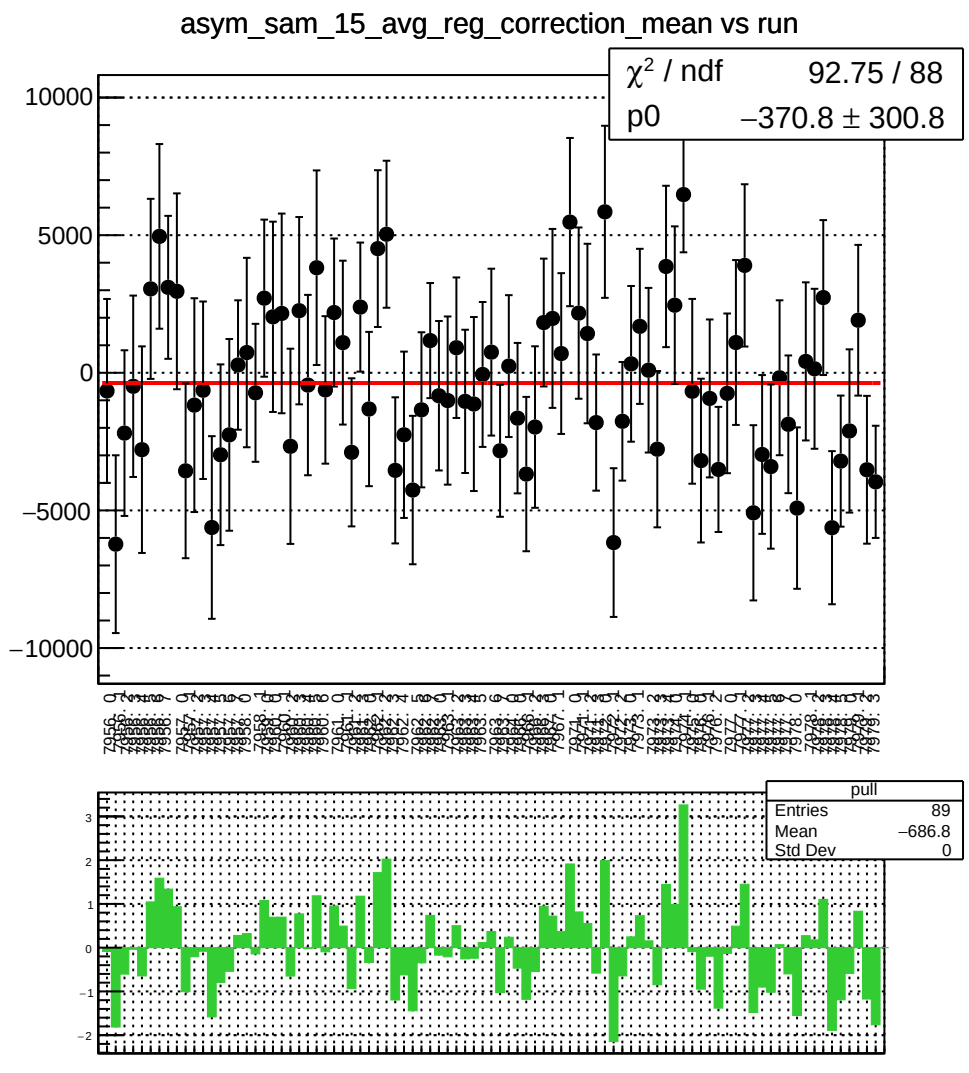

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.99 / 88
p0 −1.431e−15 ± 6.266e−14
pull
Entries 89
Mean −9.639
Std Dev 0

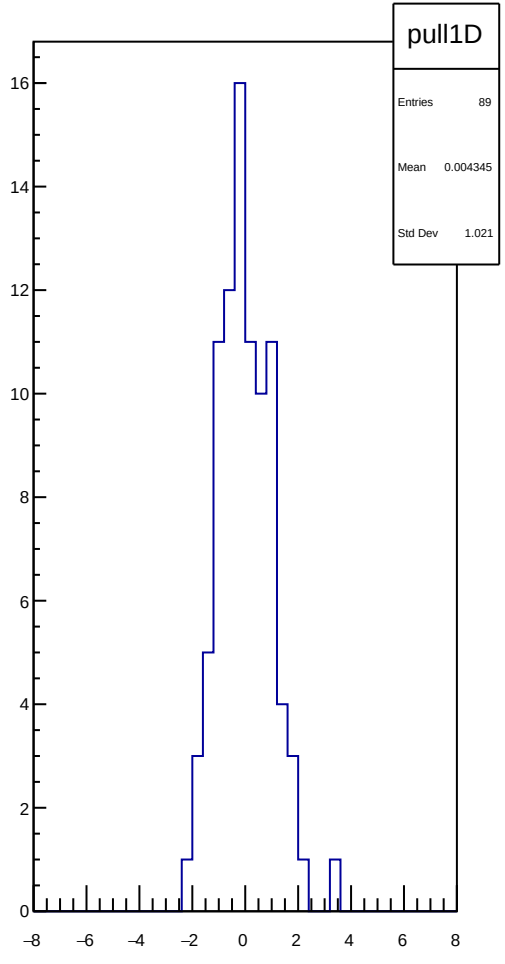

pull1D
Entries 89
Mean 0.05561
Std Dev 0.9757

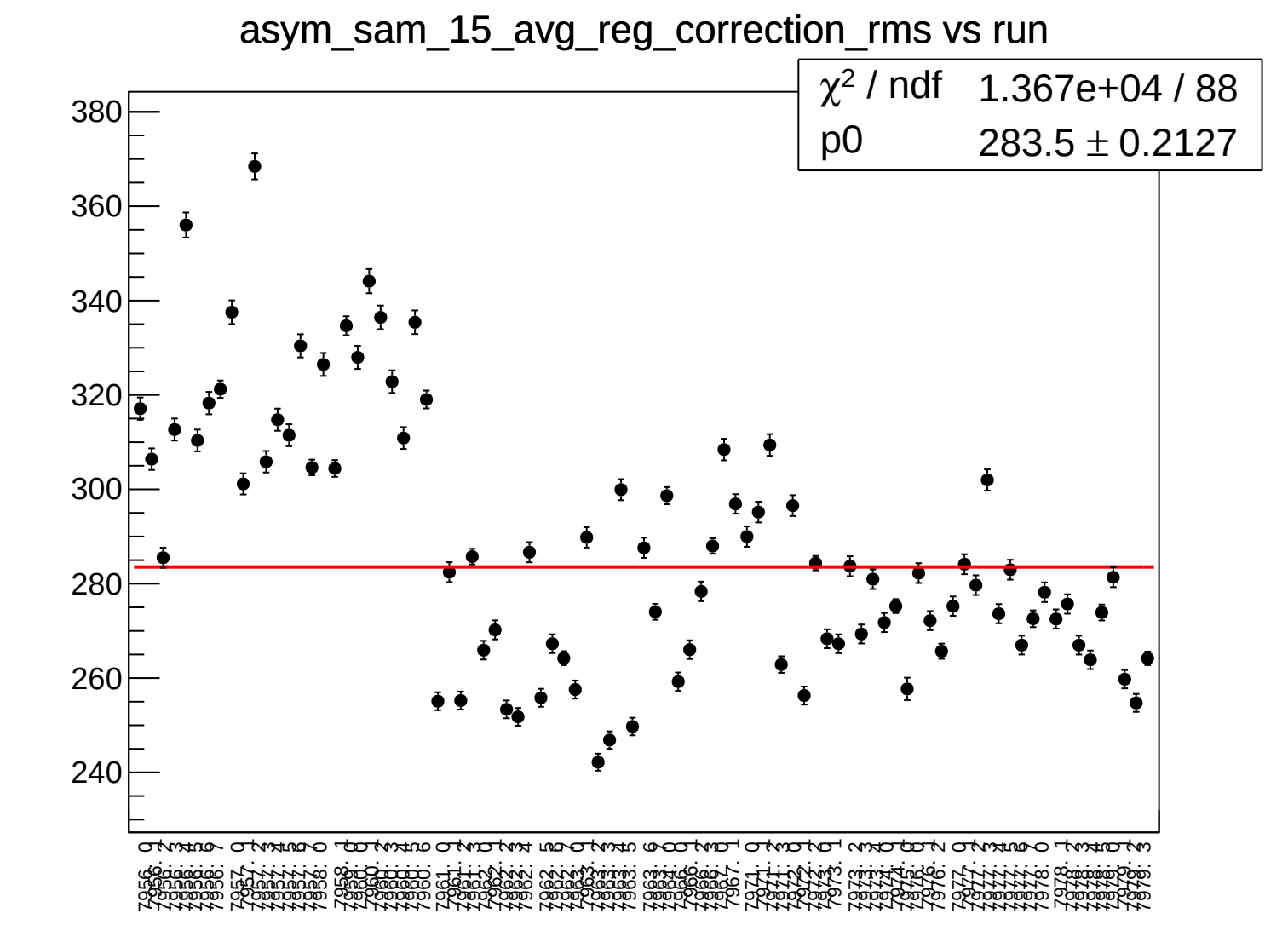

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.635e+05 / 88
p0 4.266e−11 ± 4.431e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

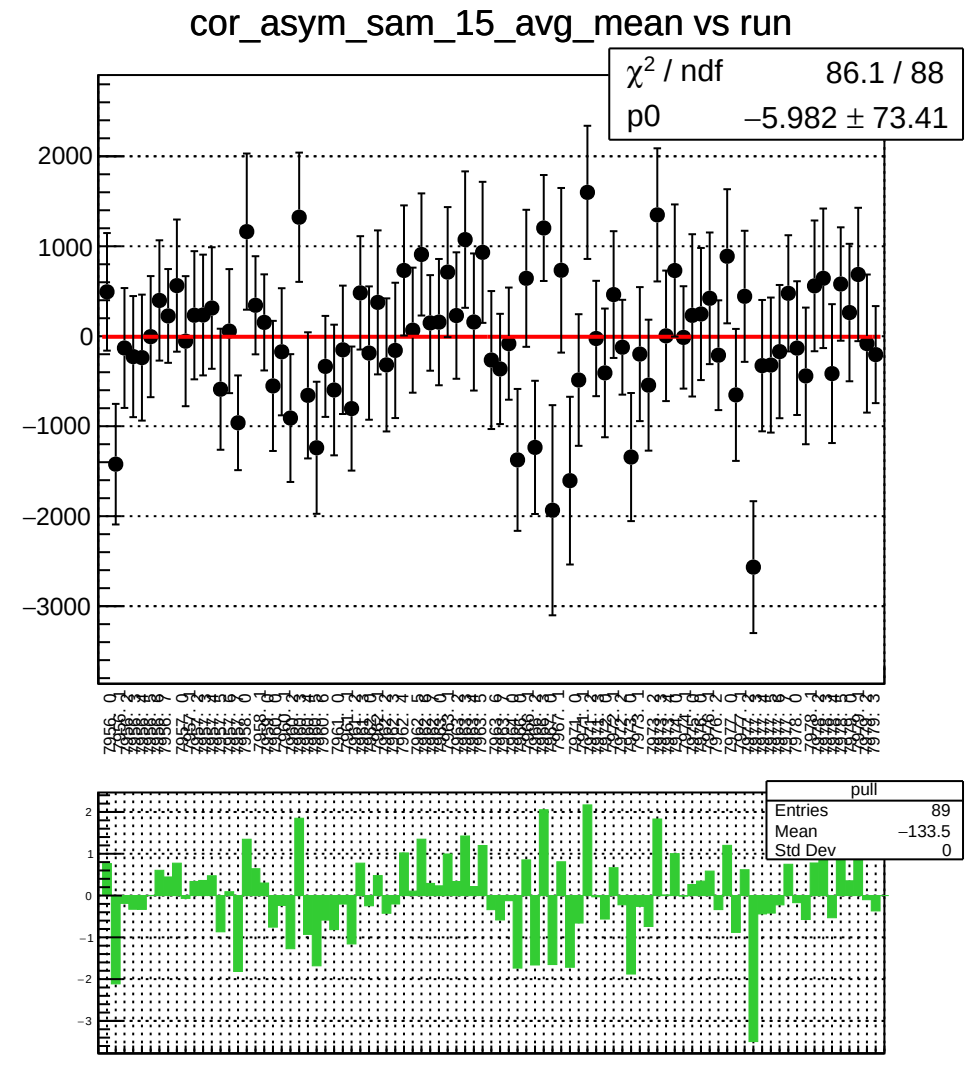

reg_asym_sam_15_avg_mean vs run
χ² / ndf 86.09 / 88
p0 −5.977 ± 73.41
pull
Entries 89
Mean −133.5
Std Dev 0
pull1D
Entries 89
Mean −0.005825
Std Dev 0.9835

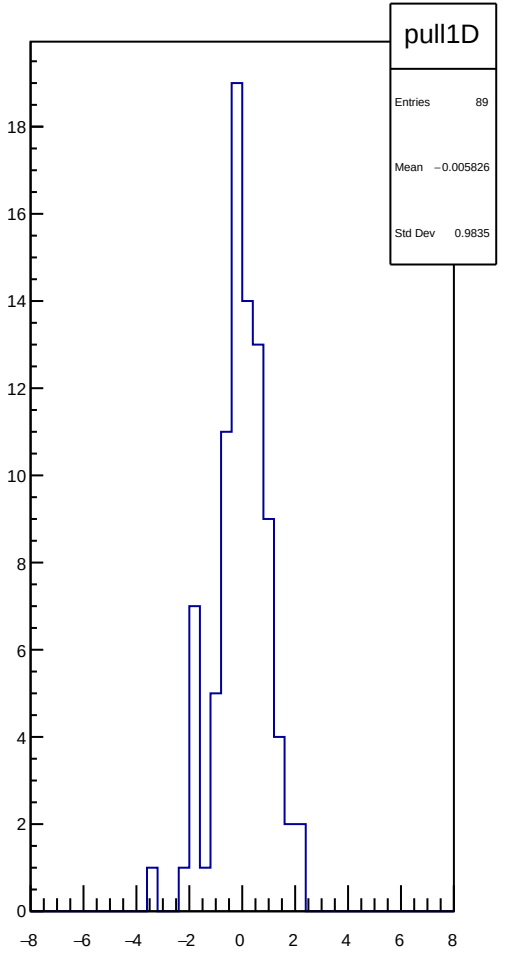

reg_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 9084 / 88
p0 69.28 ± 0.05191
110
100
90
80
70
60

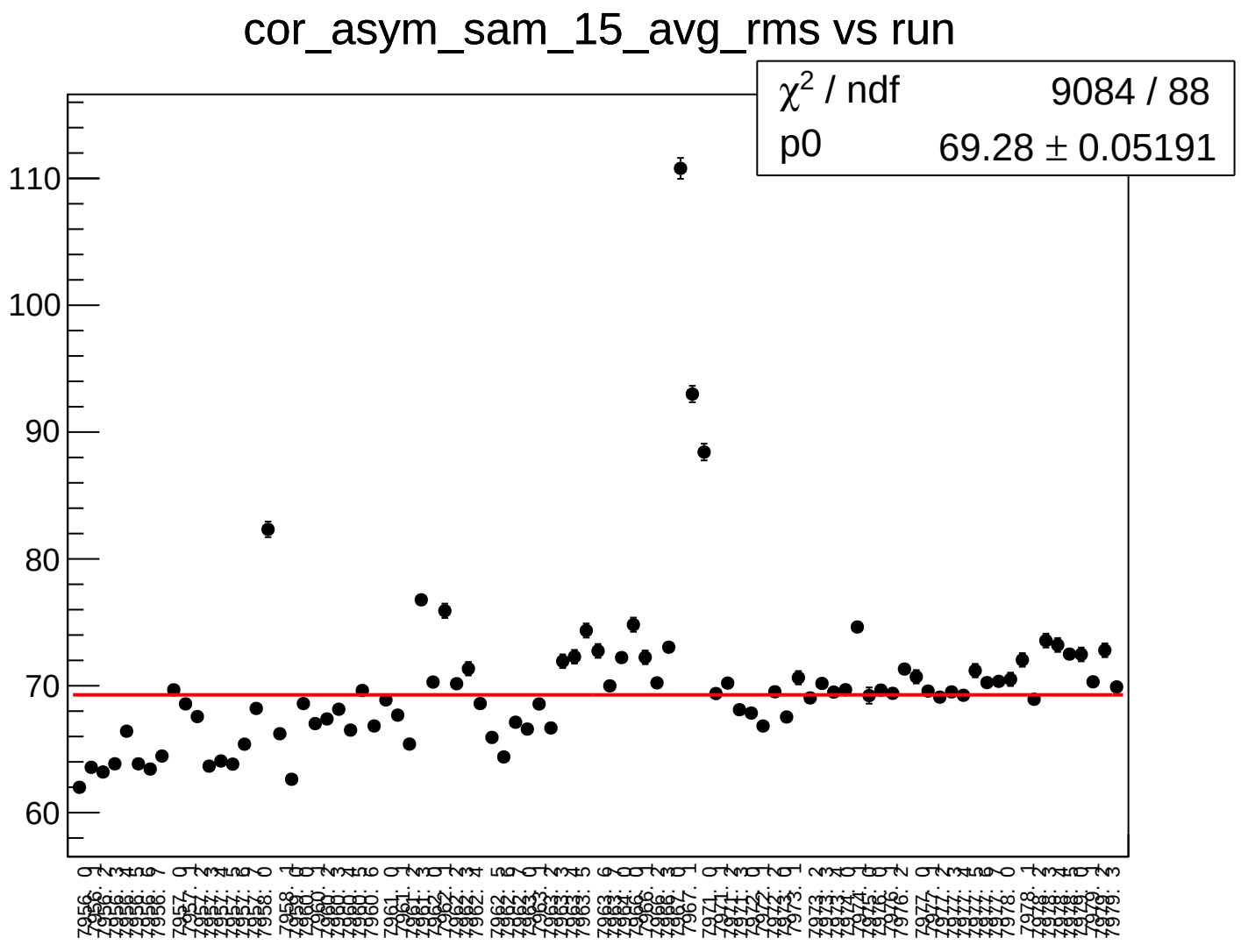

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 92.75 / 88
p0 −370.8 ± 300.8
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −686.8
Std Dev 0
3
2
1
0
−1
−2

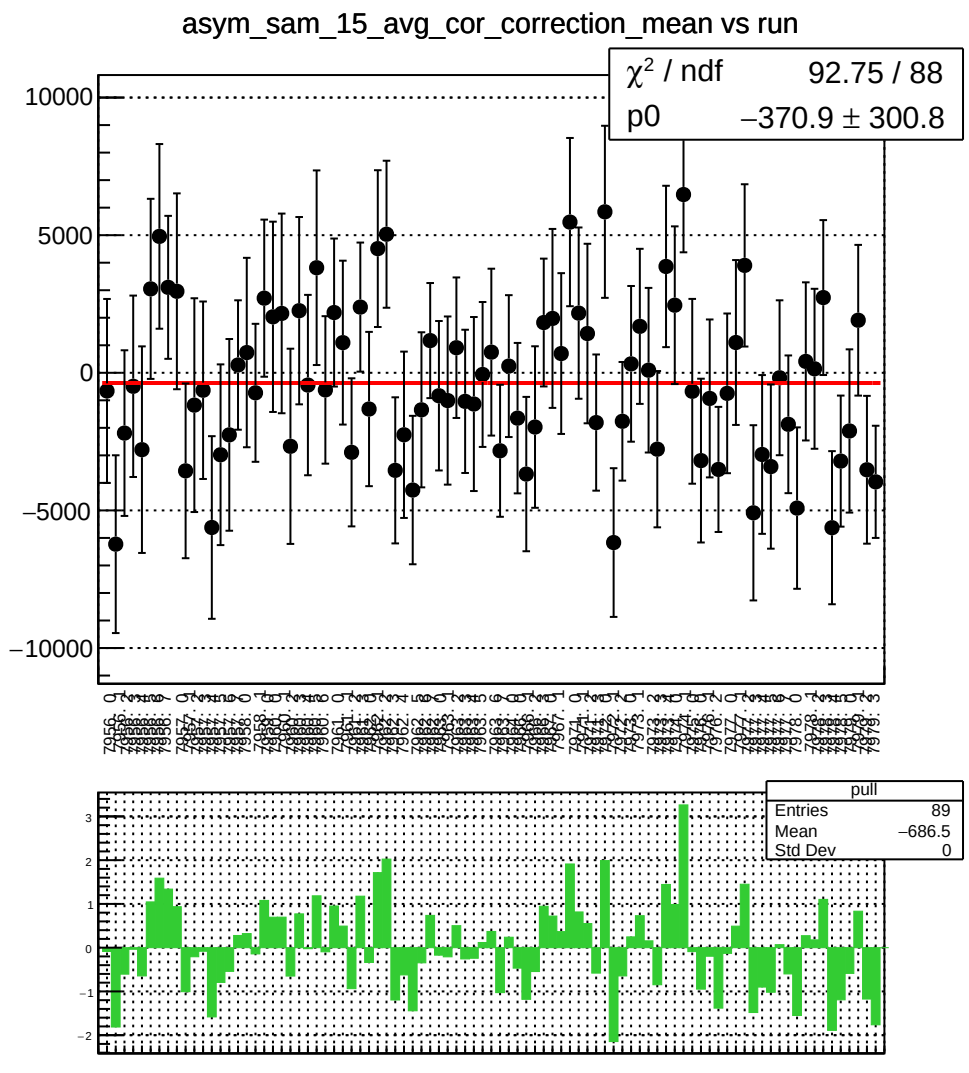

pull1D
Entries 89
Mean 0.004345
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

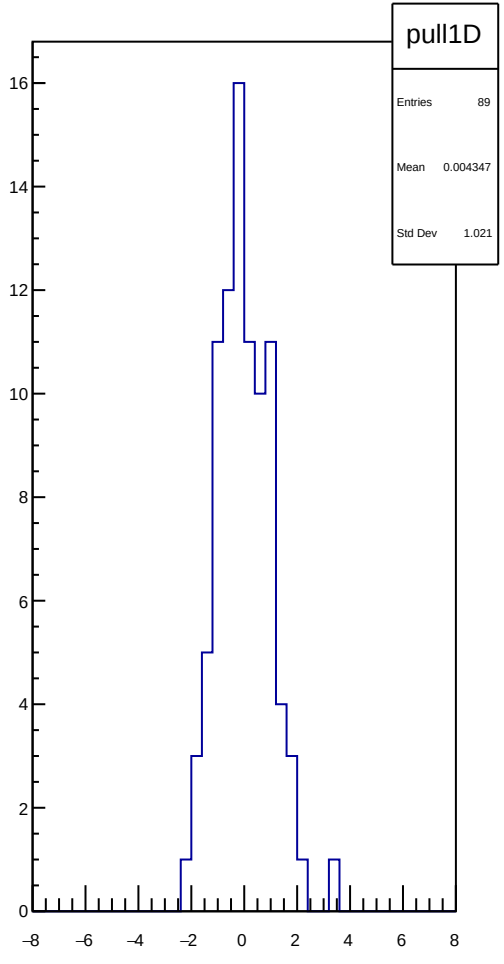

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.367e+04 / 88
p0 283.5 ± 0.2127
380
360
340
320
300
280
260
240

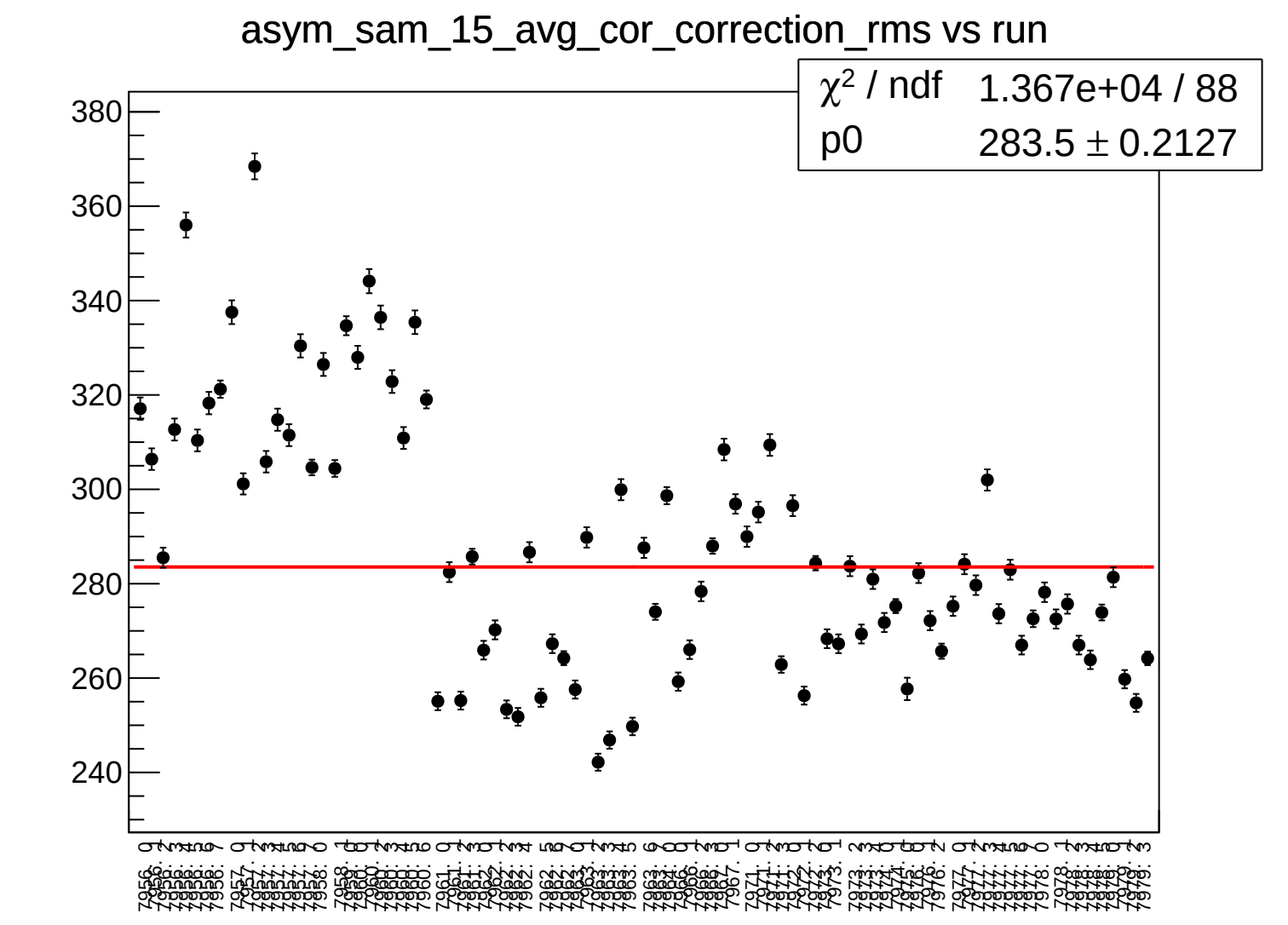

cor_asym_sam_15_avg_mean vs run
χ² / ndf 86.1 / 88
p0 −5.982 ± 73.41
pull
Entries 89
Mean −133.5
Std Dev 0

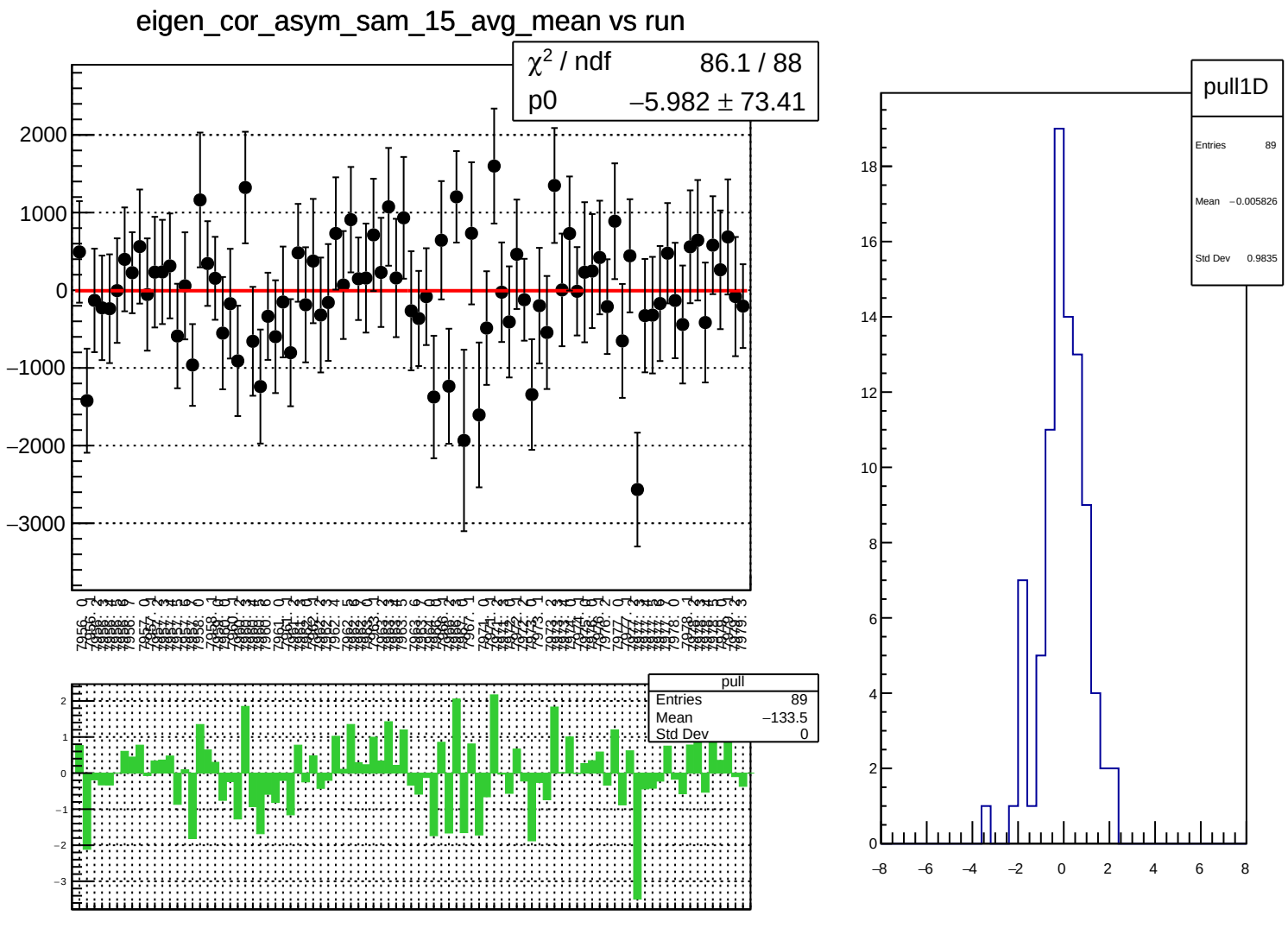

pull1D
Entries 89
Mean −0.005826
Std Dev 0.9835

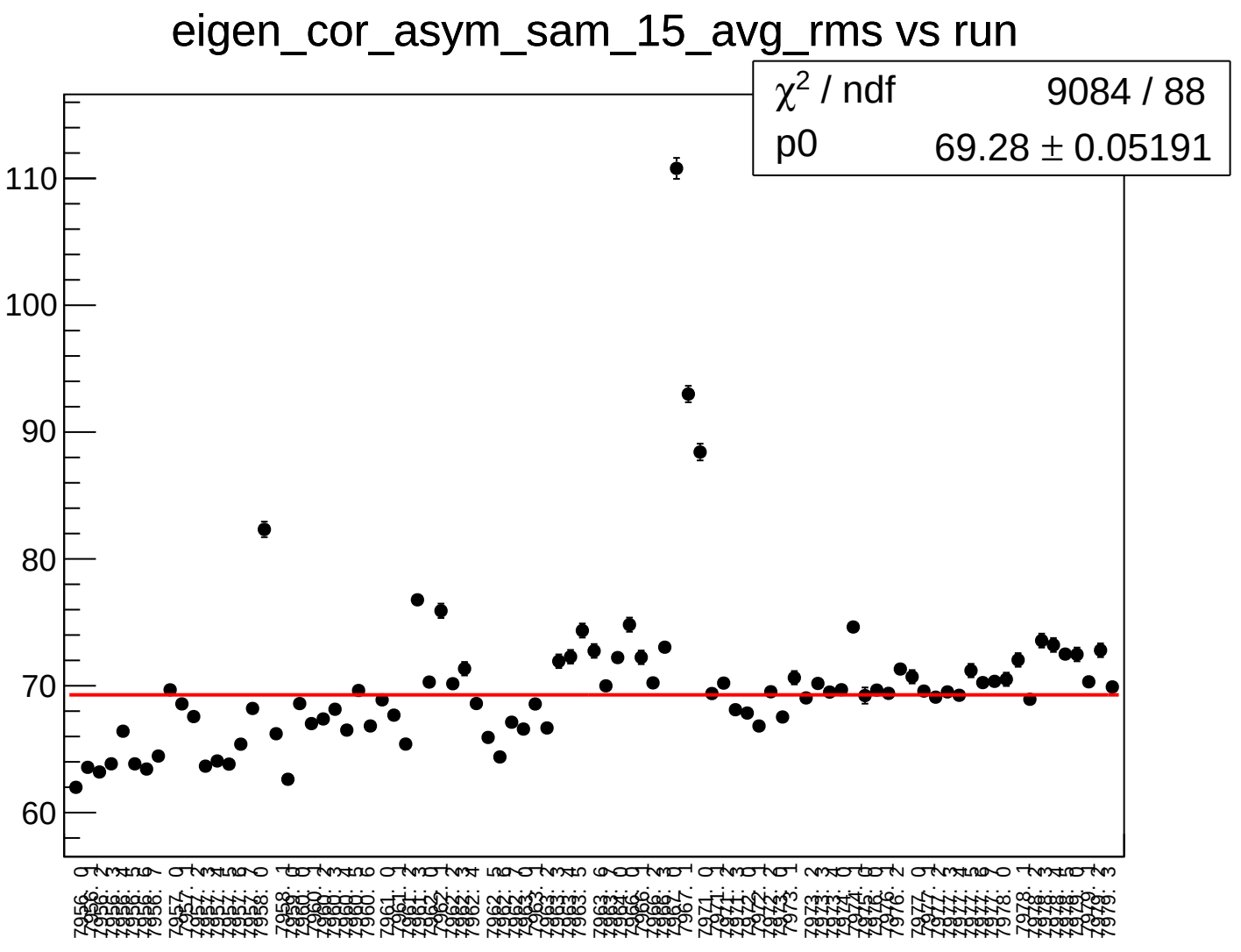

cor_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 9084 / 88
p0 69.28 ± 0.05191
110
100
90
80
70
60

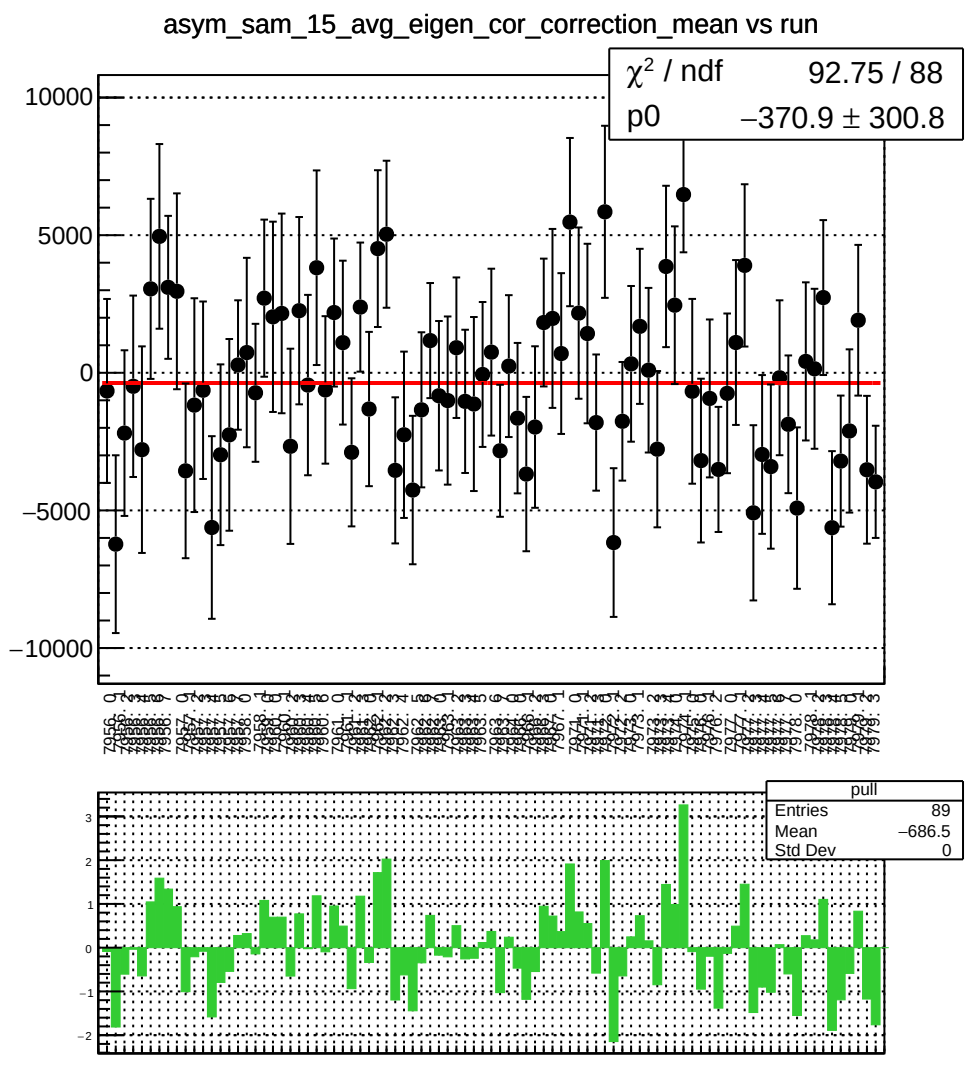

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 92.75 / 88
p0 −370.9 ± 300.8
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −686.5
Std Dev 0
3
2
1
0
−1
−2

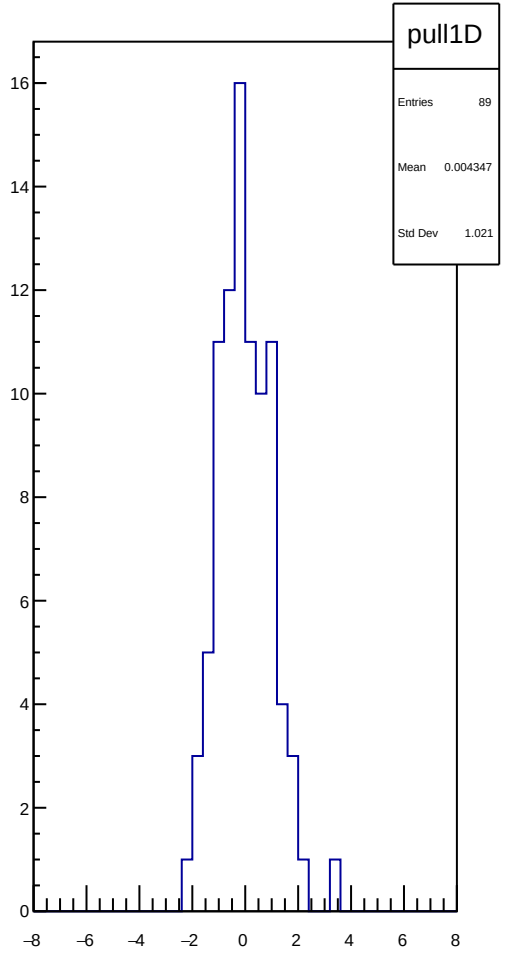

pull1D
Entries 89
Mean 0.004347
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

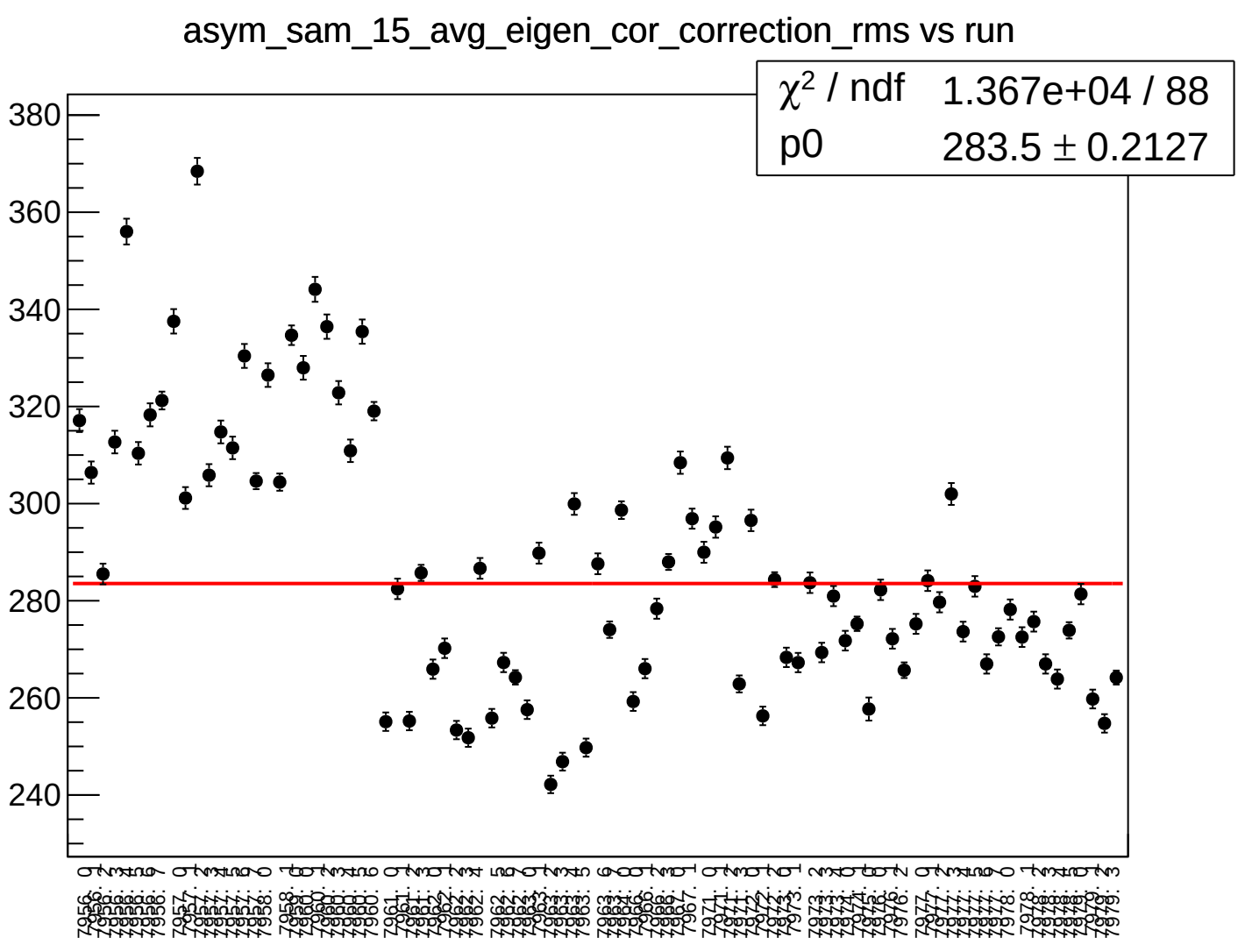

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.367e+04 / 88
p0 283.5 ± 0.2127
380
360
340
320
300
280
260
240

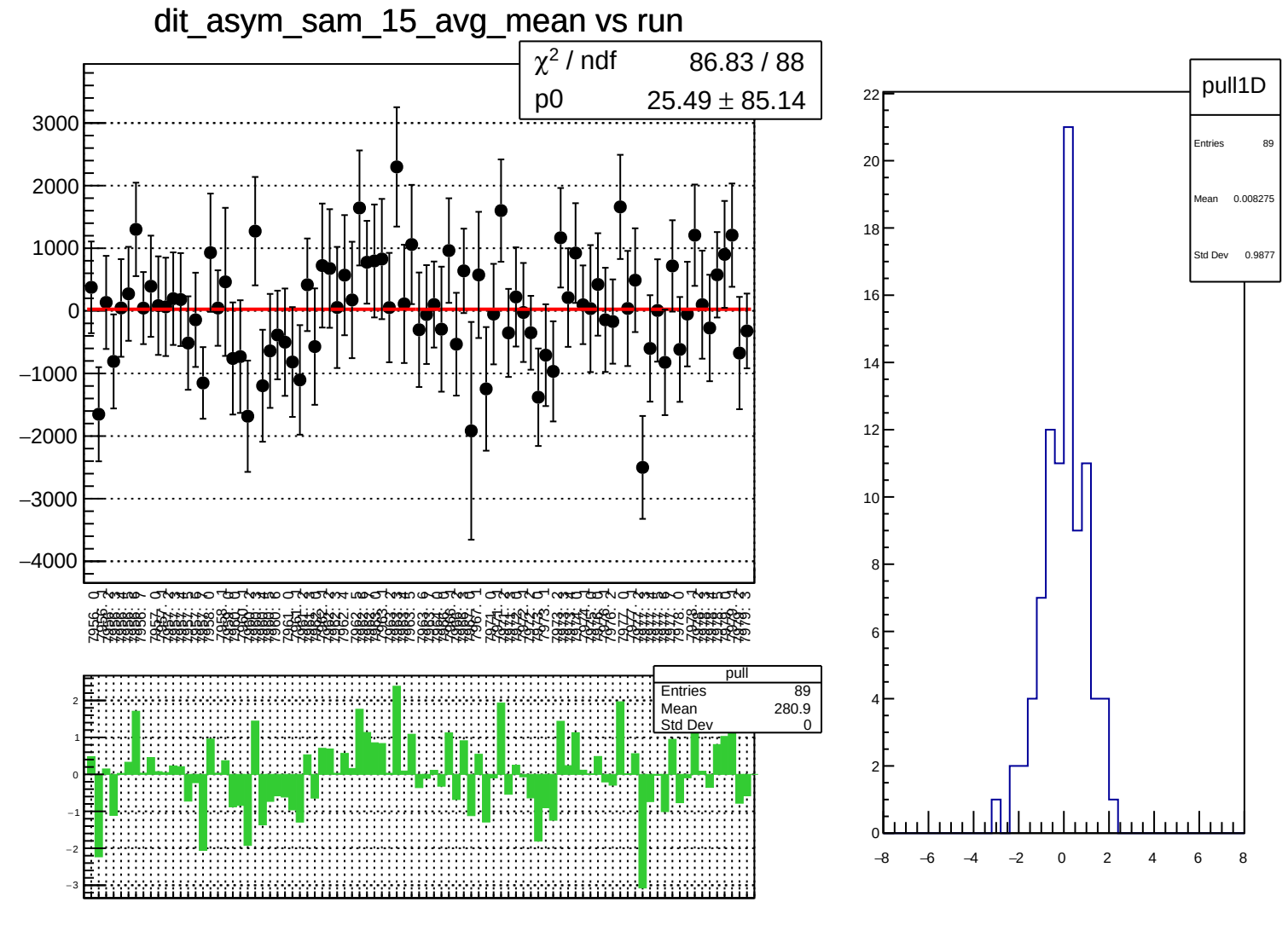

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 86.1 / 88
p0 −5.982 ± 73.41
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −133.5
Std Dev 0
pull1D
Entries 89
Mean −0.005826
Std Dev 0.9835

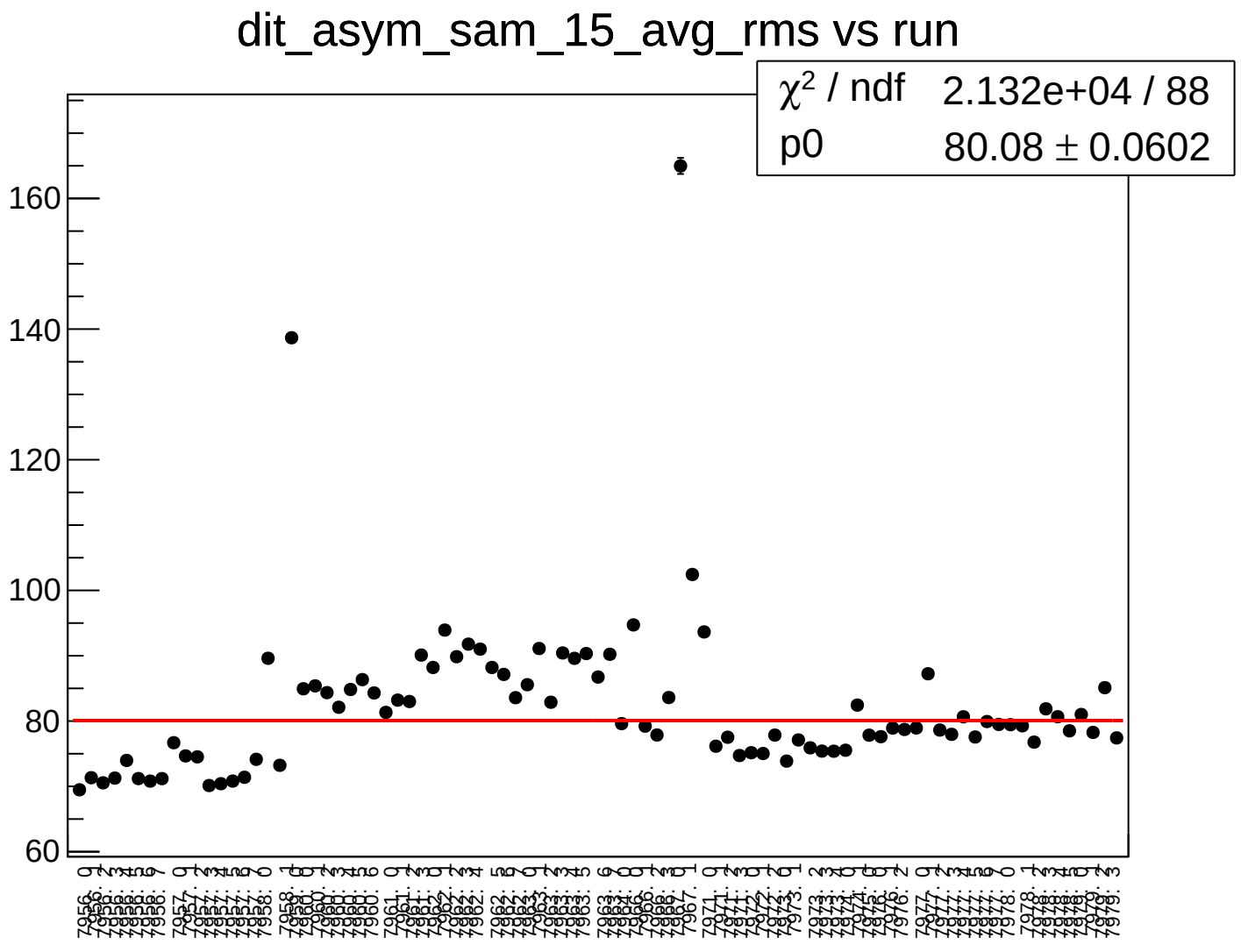

eigen_cor_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 9084 / 88
p0 69.28 ± 0.05191
110
100
90
80
70
60

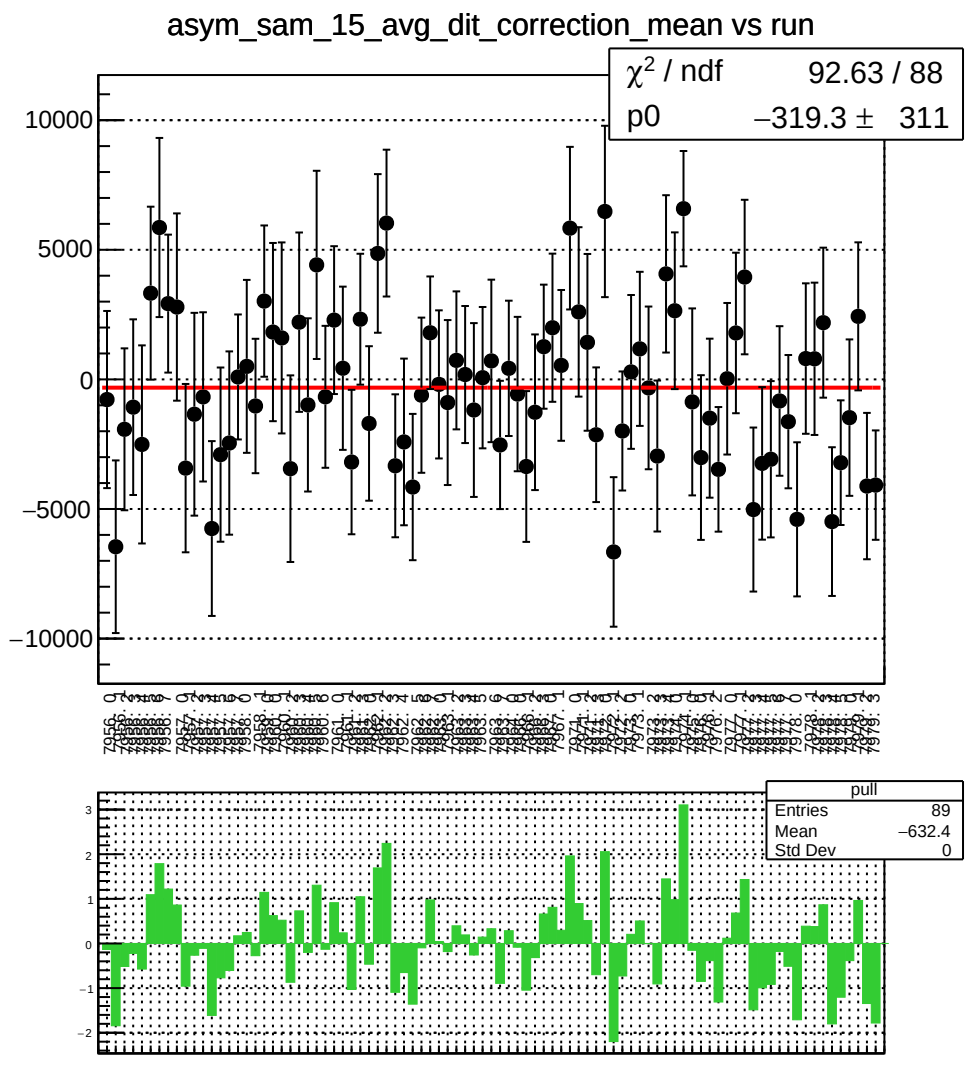

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.75 / 88
p0 −370.9 ± 300.8
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −686.5
Std Dev 0
3
2
1
0
−1
−2

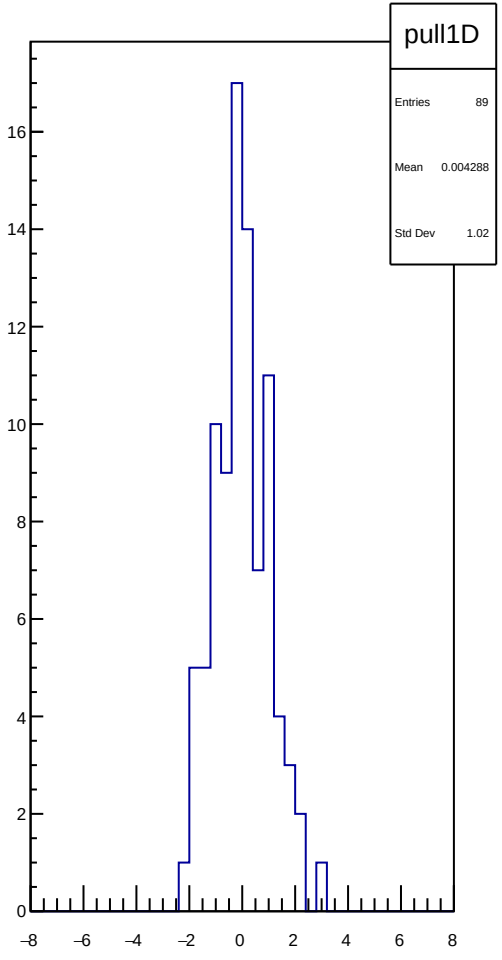

pull1D
Entries 89
Mean 0.004347
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

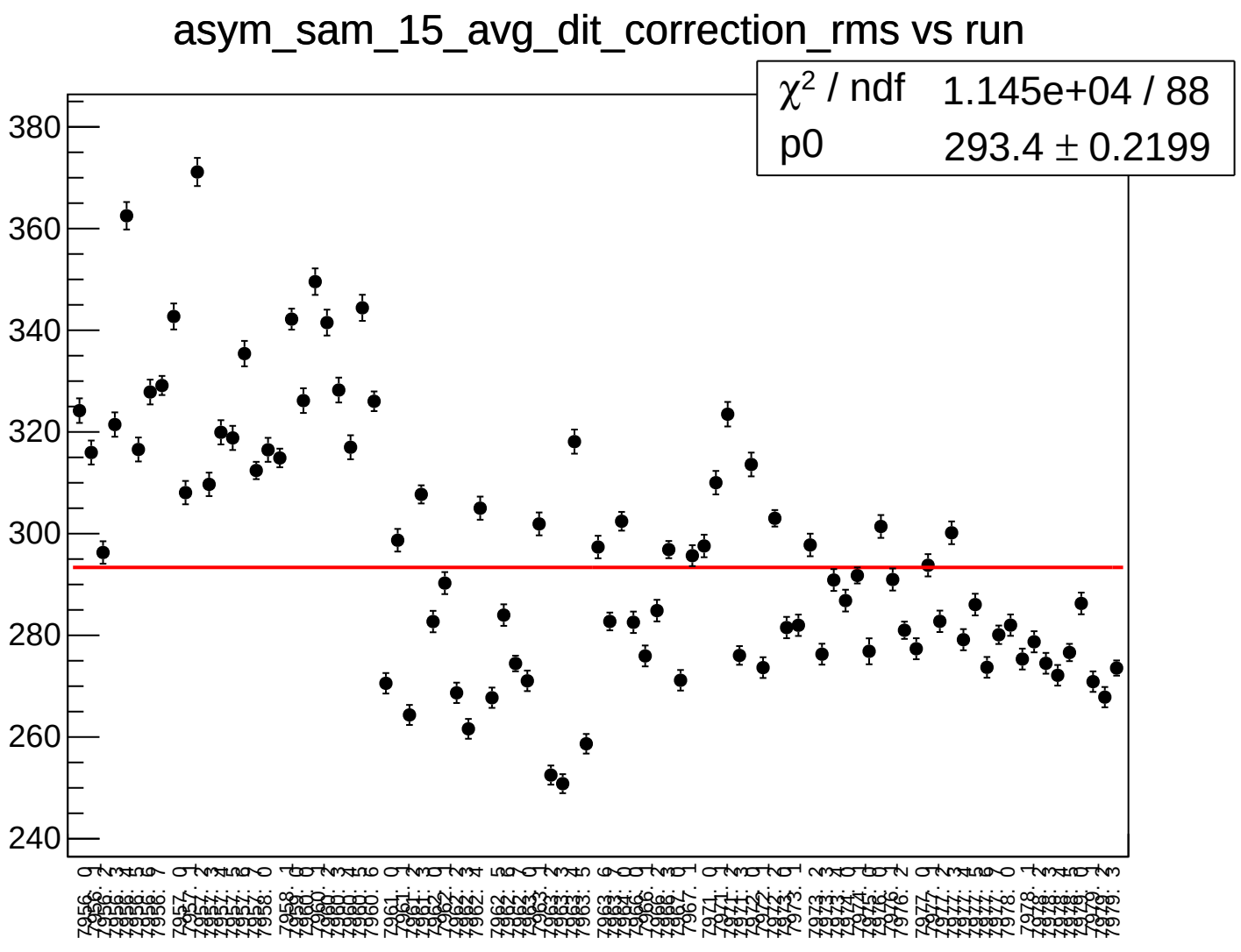

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.367e+04 / 88
p0 283.5 ± 0.2127
380
360
340
320
300
280
260
240

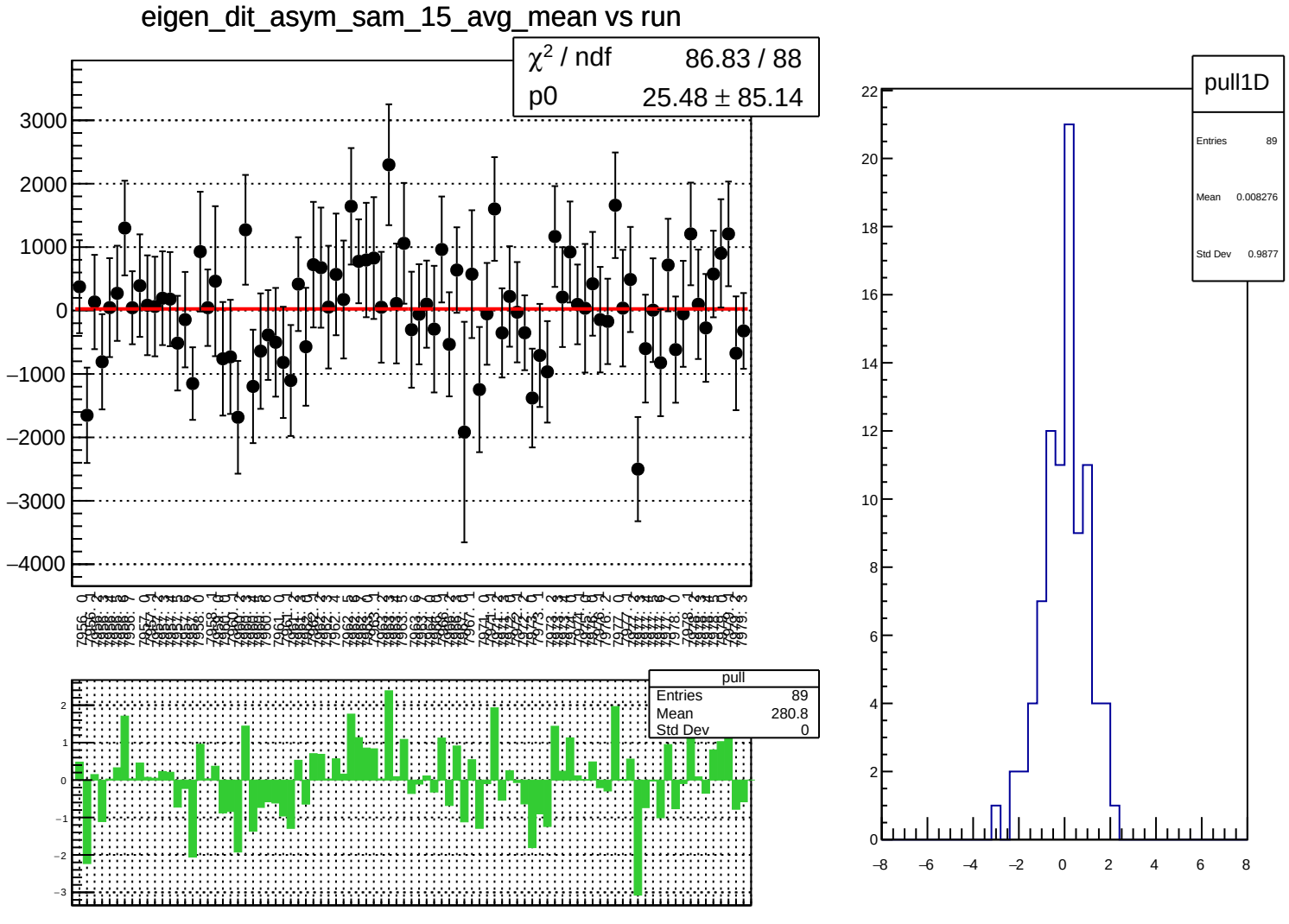

dit_asym_sam_15_avg_mean vs run
χ² / ndf 86.83 / 88
p0 25.49 ± 85.14
pull
Entries 89
Mean 280.9
Std Dev 0
pull1D
Entries 89
Mean 0.008275
Std Dev 0.9877

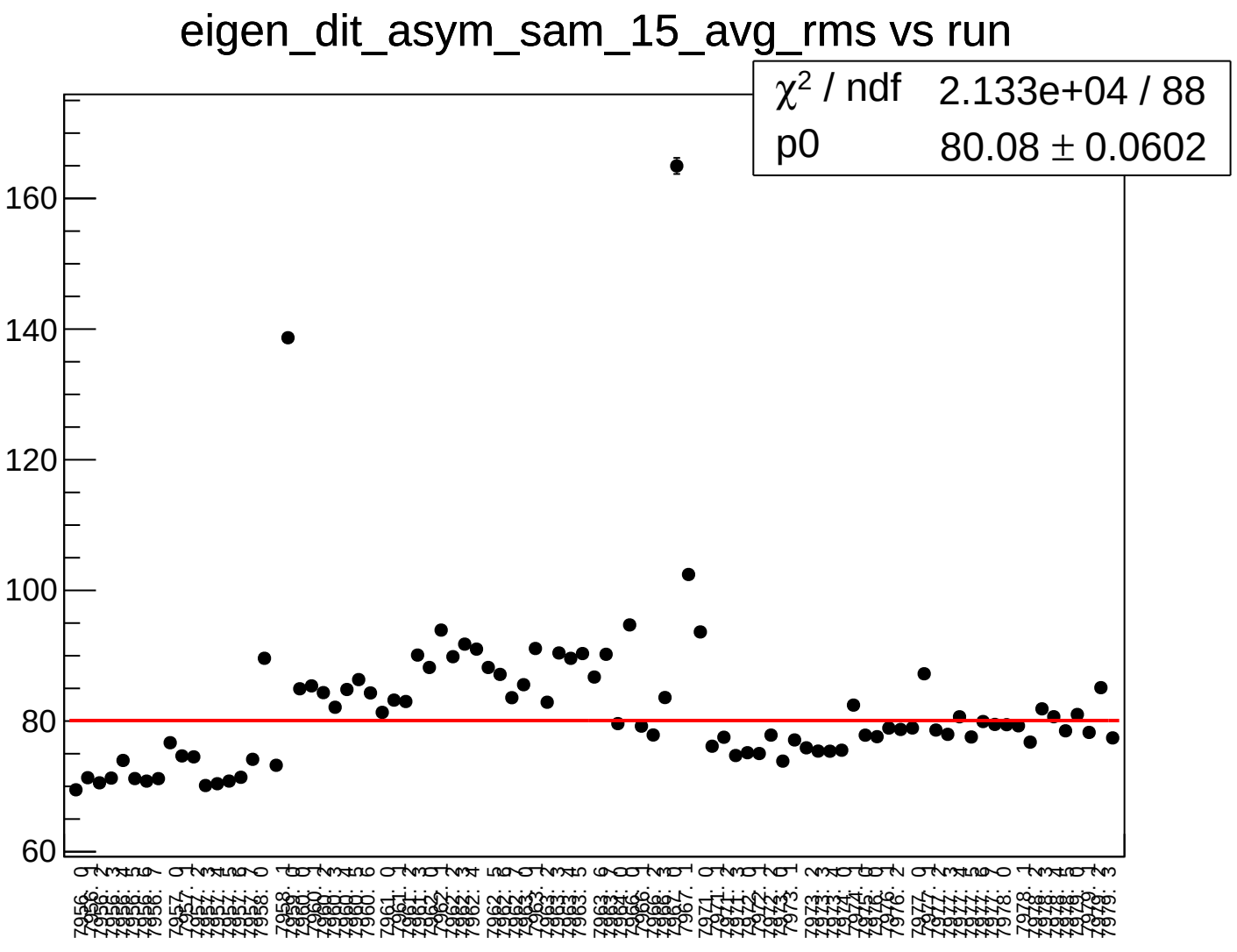

dit_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 2.132e+04 / 88
p0 80.08 ± 0.0602
160
140
120
100
80
60

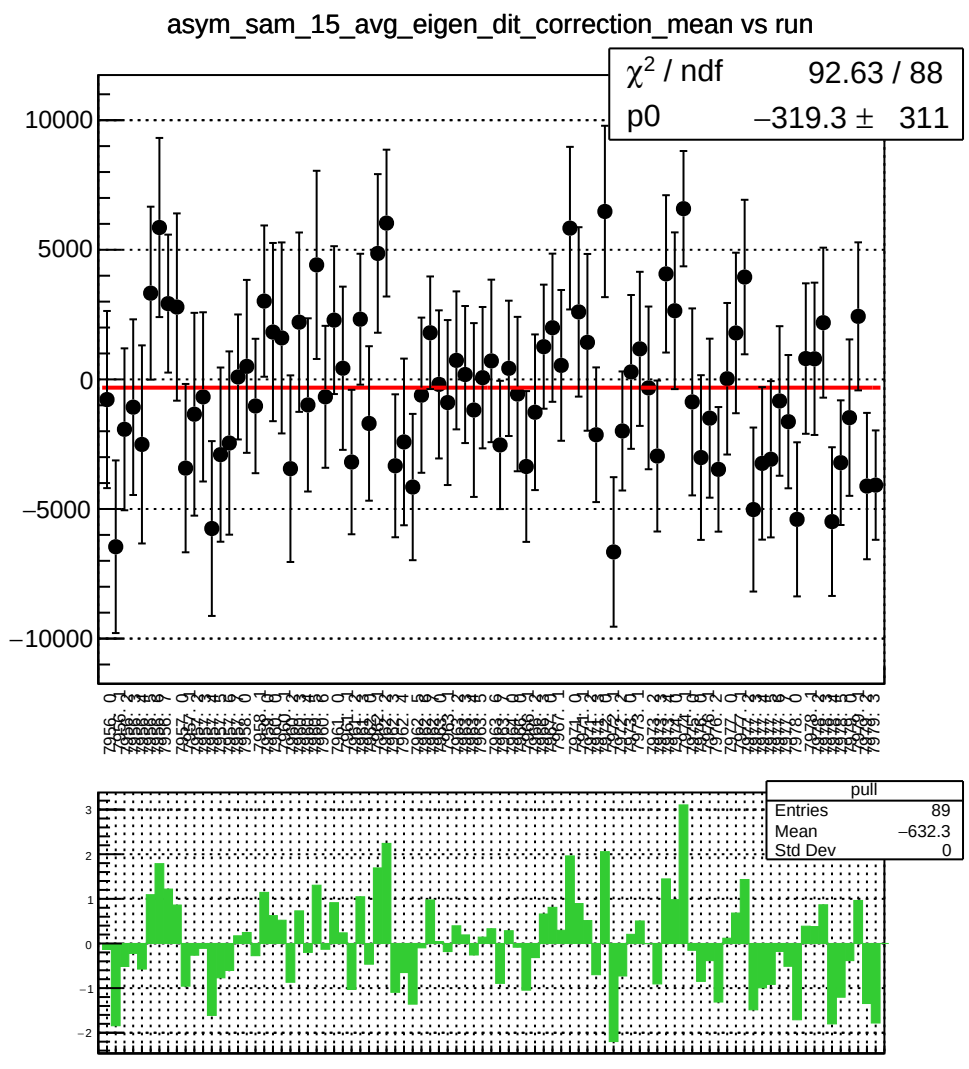

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 92.63 / 88
p0 −319.3 ± 311
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −632.4
Std Dev 0
3
2
1
0
−1
−2

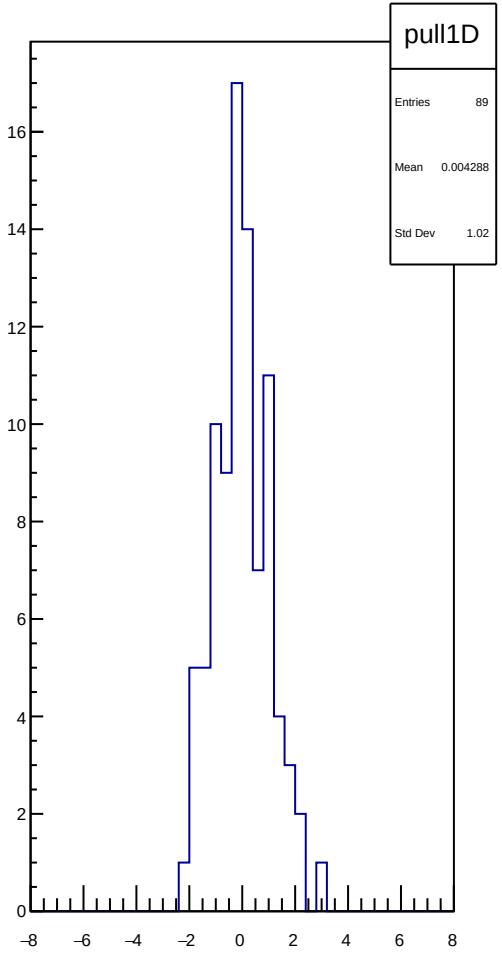

pull1D
Entries 89
Mean 0.004288
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

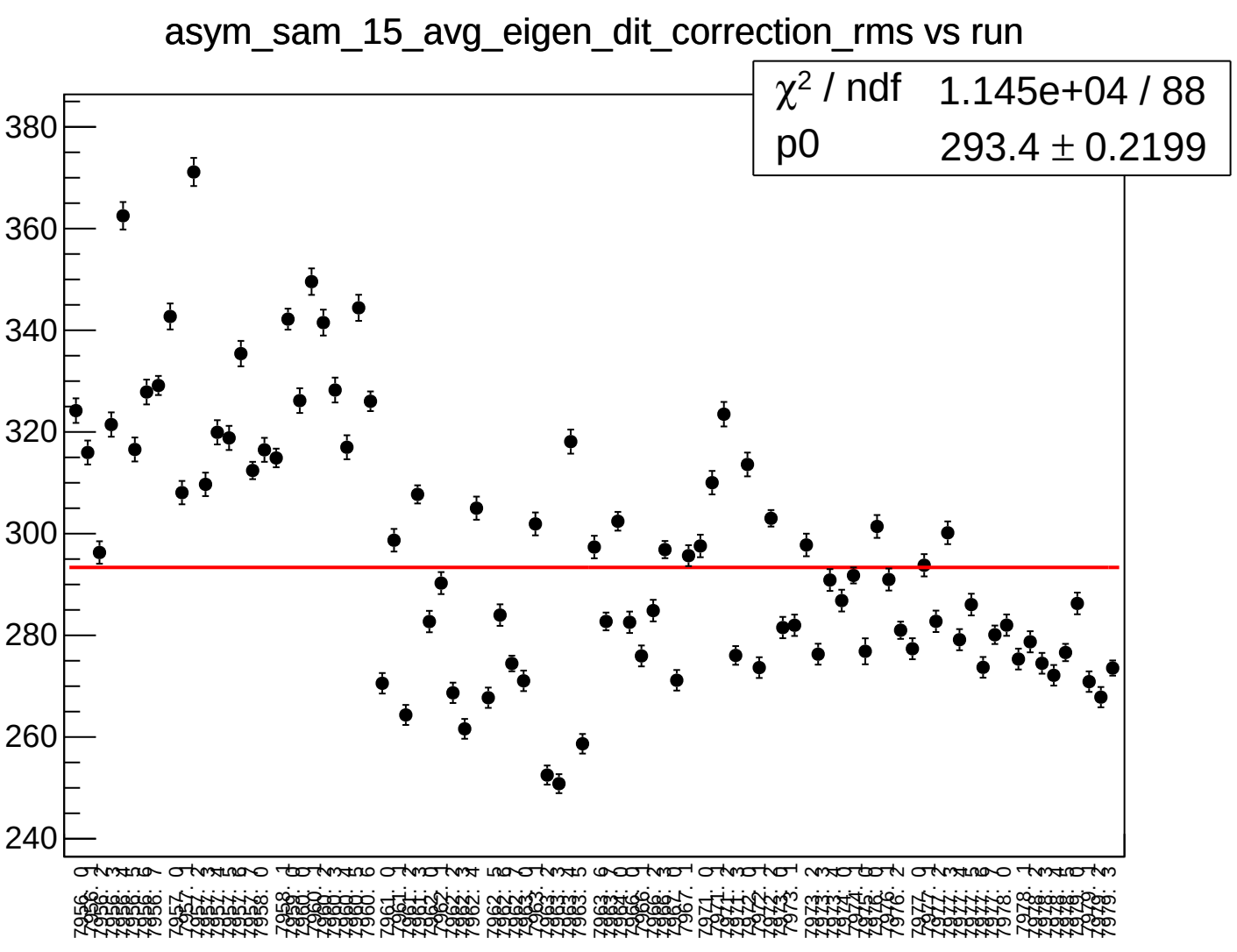

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1.145e+04 / 88
p0 293.4 ± 0.2199
380
360
340
320
300
280
260
240

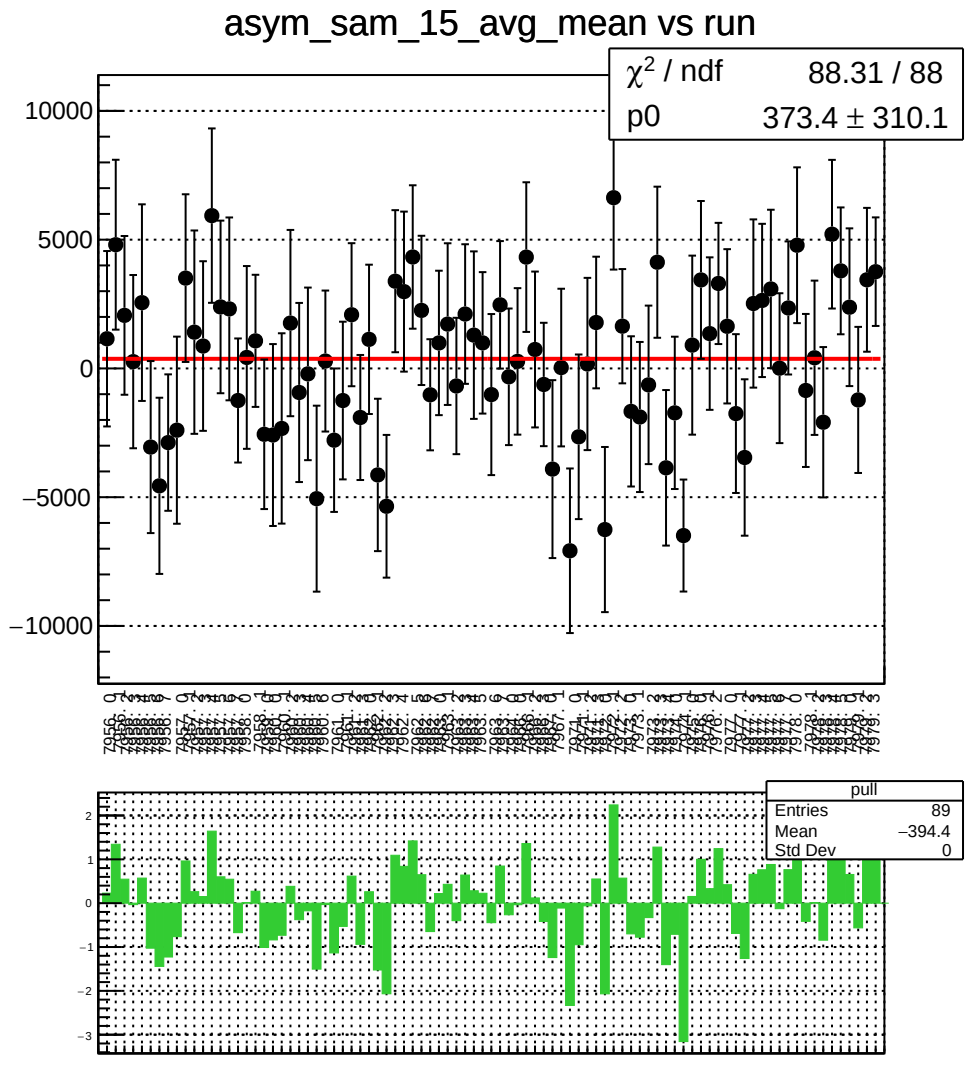

eigen_dit_asym_sam_15_avg_mean vs run
$\chi^2$ / ndf 86.83 / 88
p0 25.48 ± 85.14
pull
Entries 89
Mean 280.8
Std Dev 0
pull1D
Entries 89
Mean 0.008276
Std Dev 0.9877

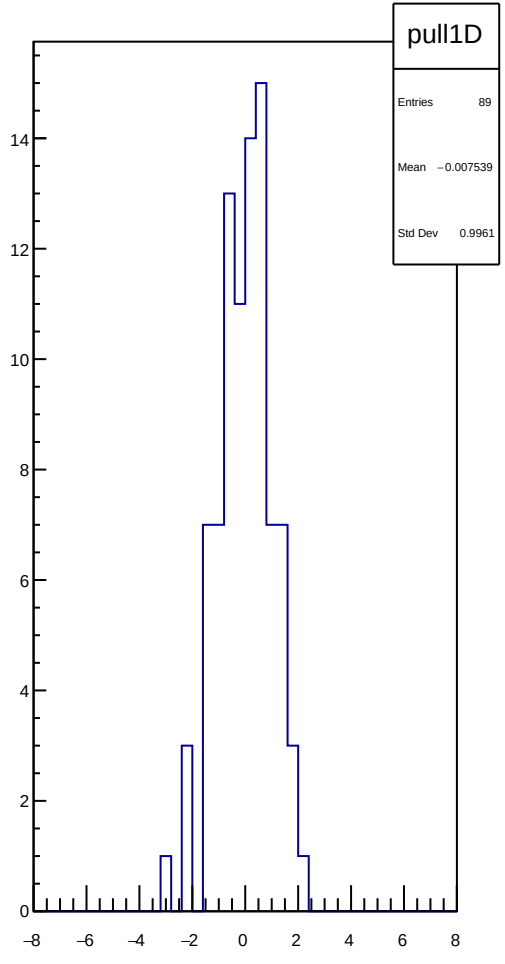

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 2.133e+04 / 88
p0 80.08 ± 0.0602
160
140
120
100
80
60

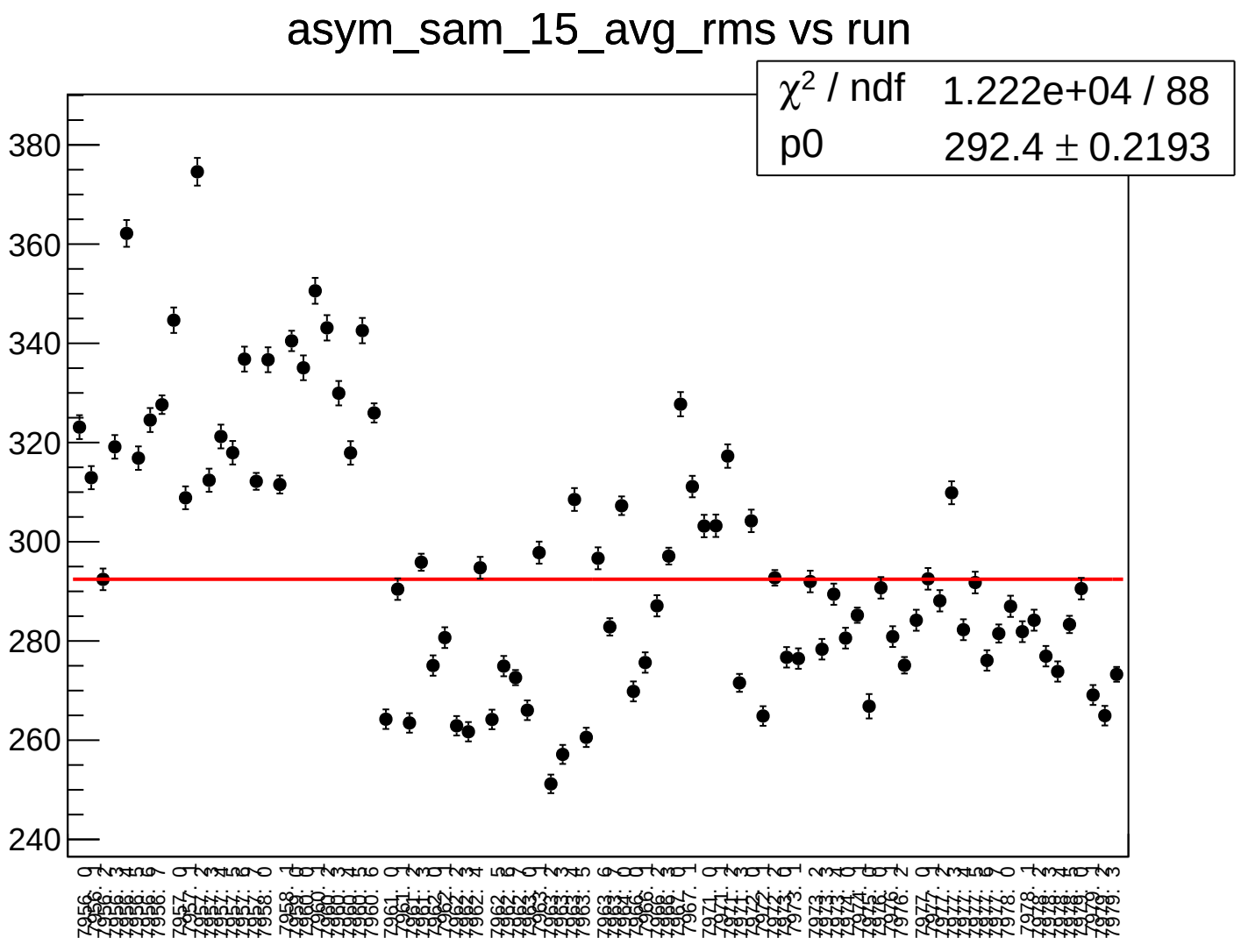

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 92.63 / 88
p0 −319.3 ± 311
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −632.3
Std Dev 0
3
2
1
0
−1
−2

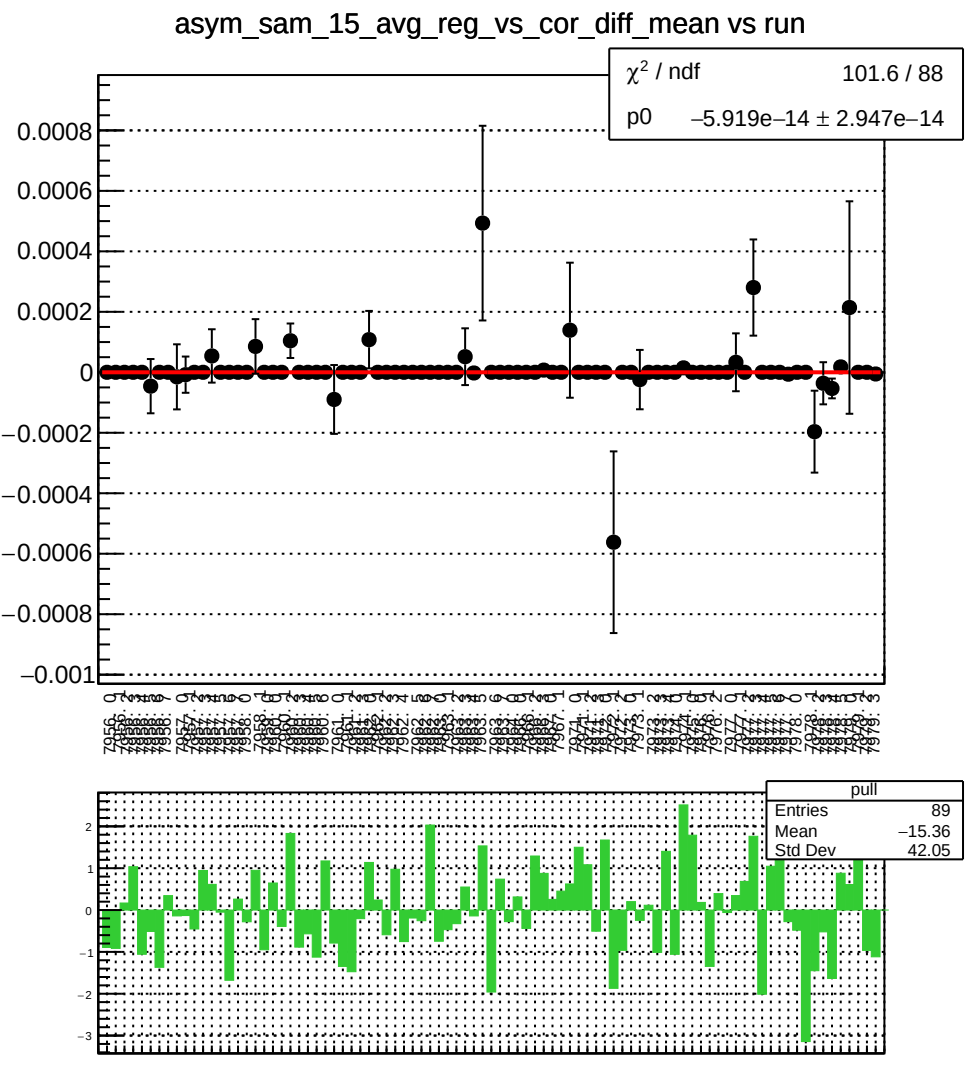

pull1D
Entries 89
Mean 0.004288
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

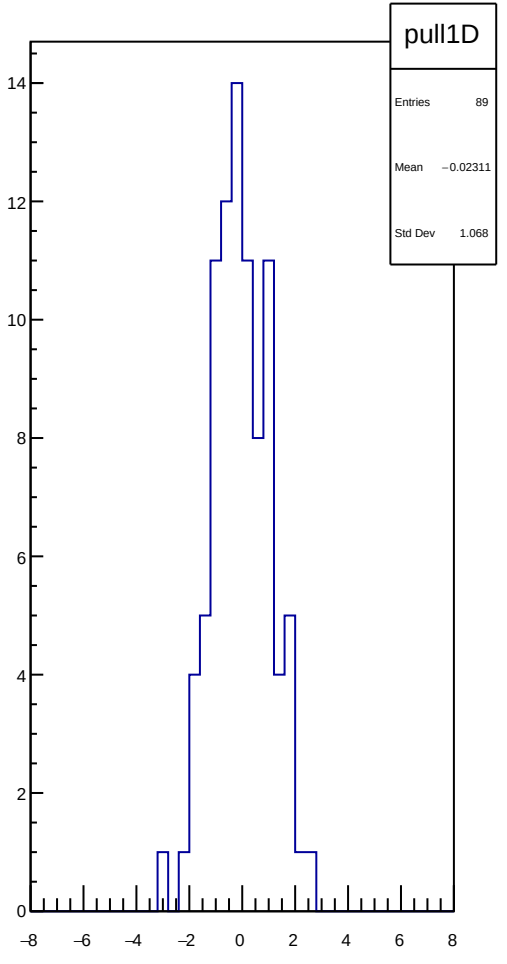

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.145e+04 / 88
p0 293.4 ± 0.2199
380
360
340
320
300
280
260
240

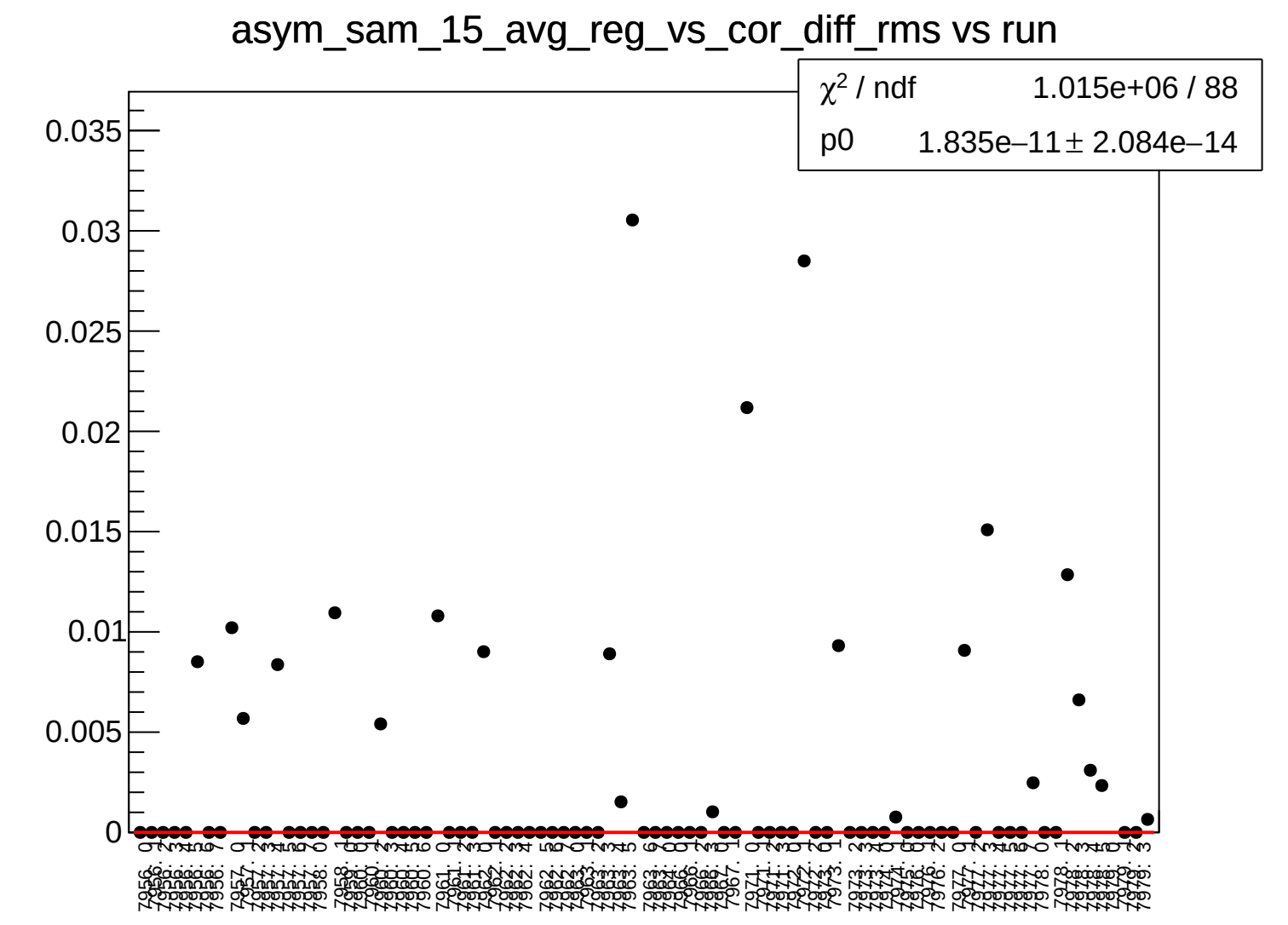

asym_sam_15_avg_mean vs run
χ² / ndf 88.31 / 88
p0 373.4 ± 310.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −394.4
Std Dev 0
2
1
0
−1
−2
−3

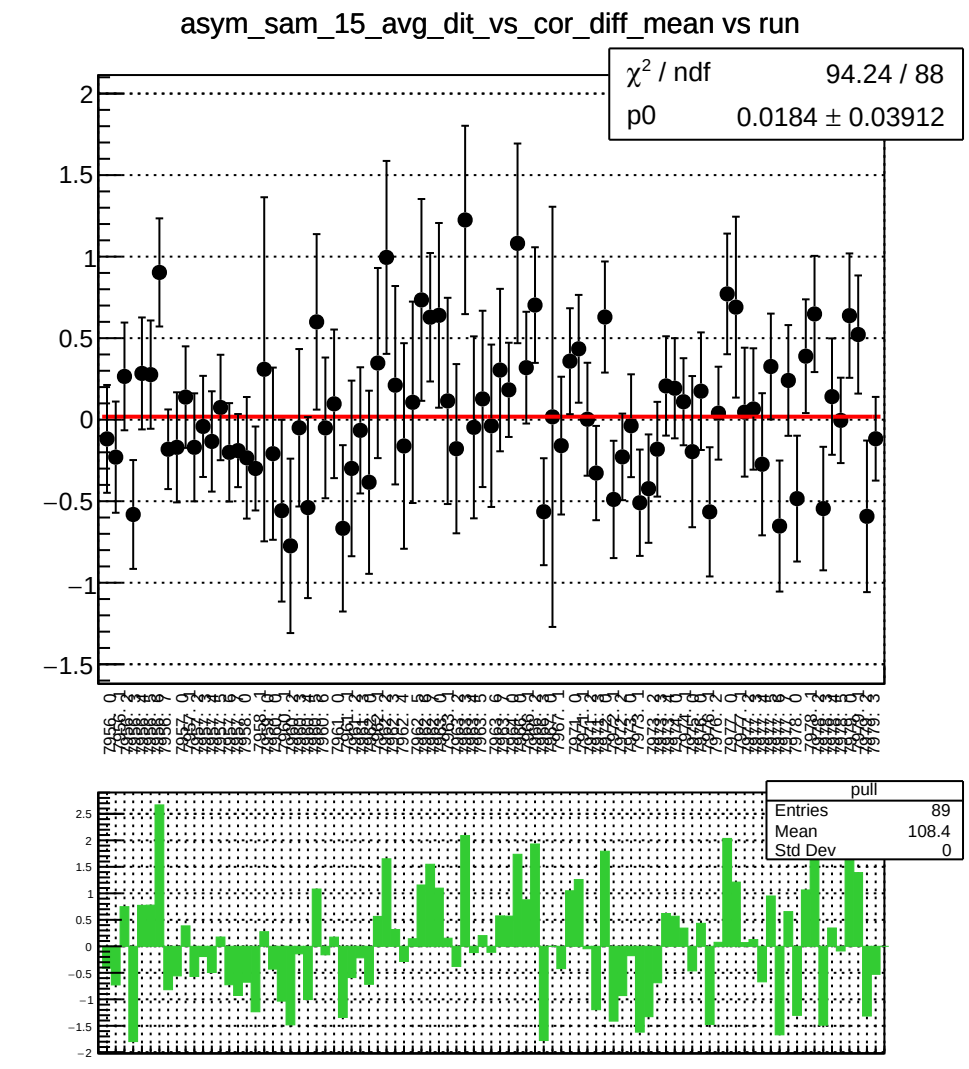

pull1D
Entries 89
Mean −0.007539
Std Dev 0.9961
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

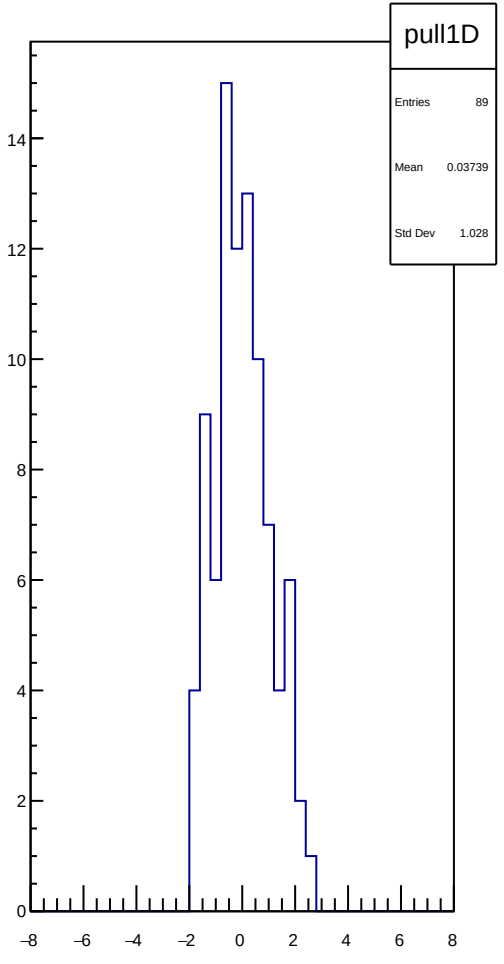

asym_sam_15_avg_rms vs run
χ² / ndf 1.222e+04 / 88
p0 292.4 ± 0.2193
380
360
340
320
300
280
260
240

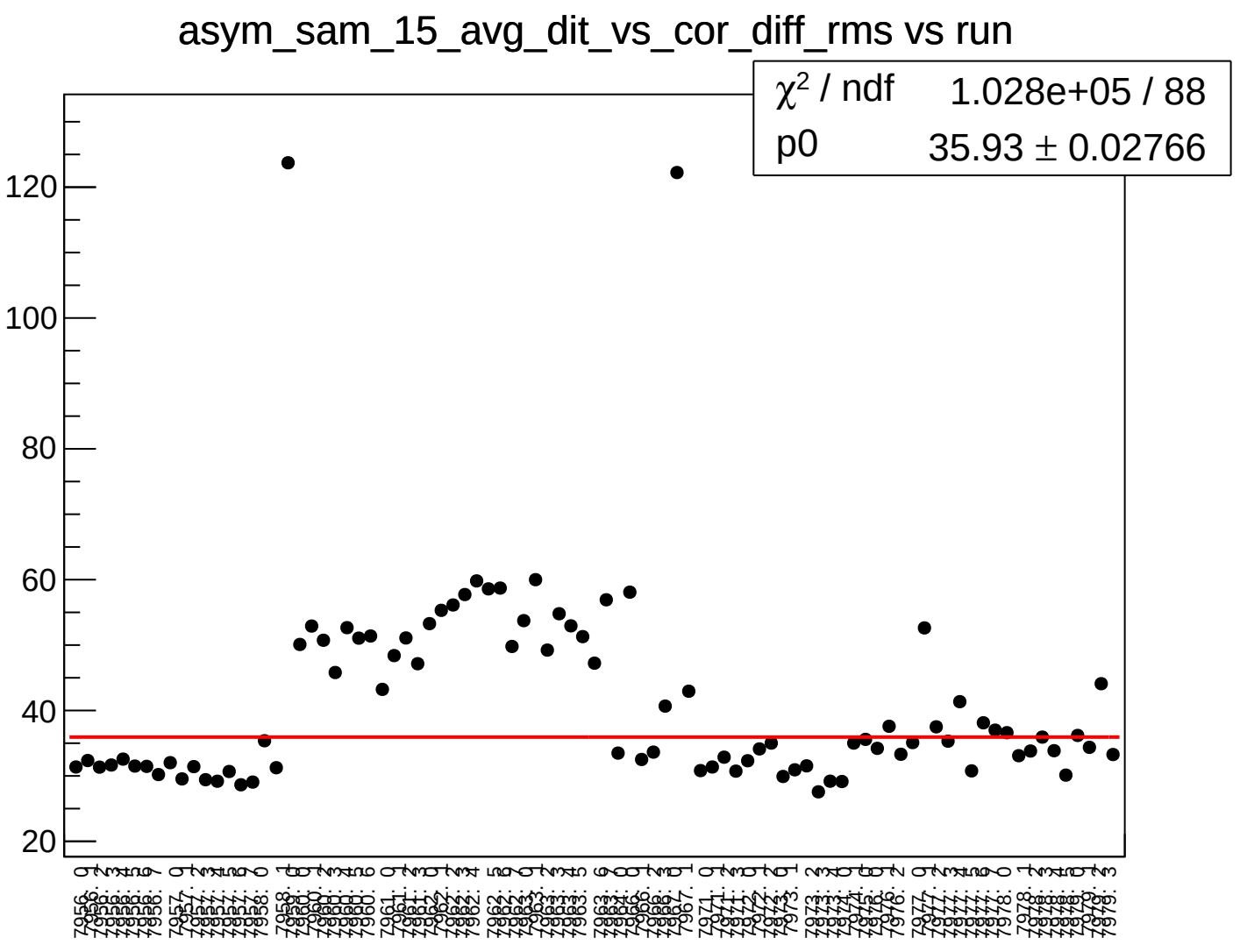

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 88
p0 −5.919e−14 ± 2.947e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 89
Mean −15.36
Std Dev 42.05
2
1
0
−1
−2
−3

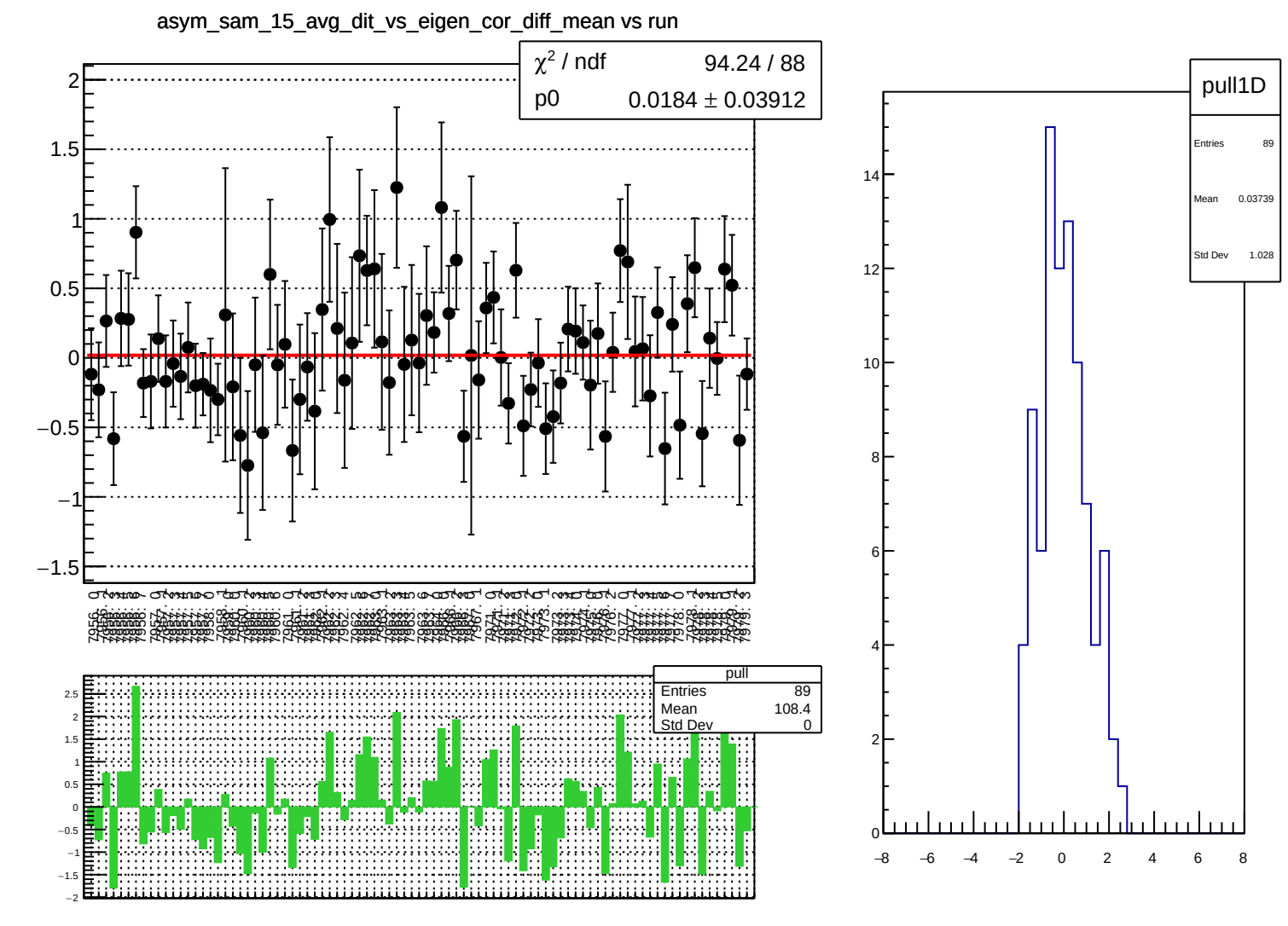

pull1D
Entries 89
Mean −0.02311
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

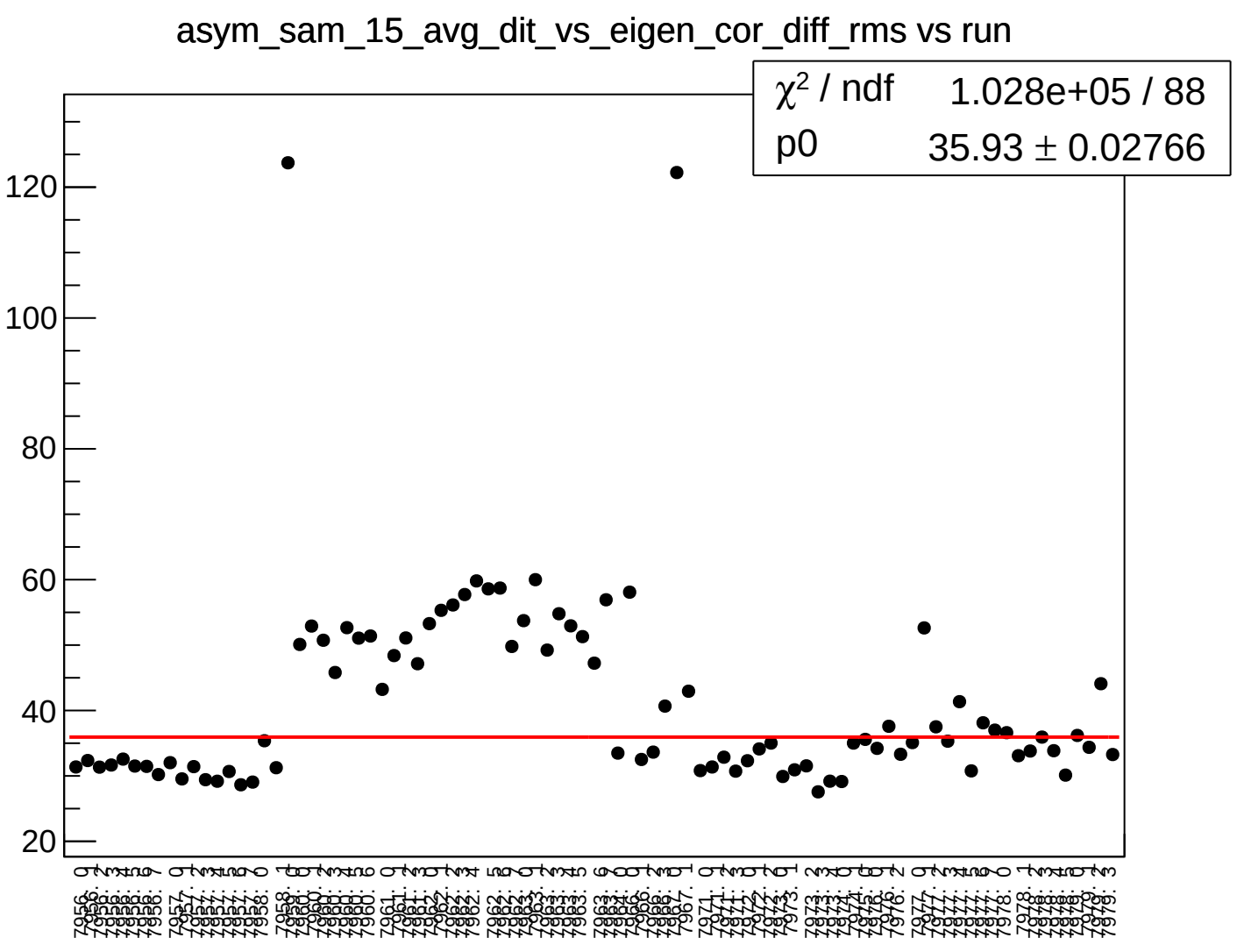

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.015e+06 / 88
p0 1.835e−11 ± 2.084e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

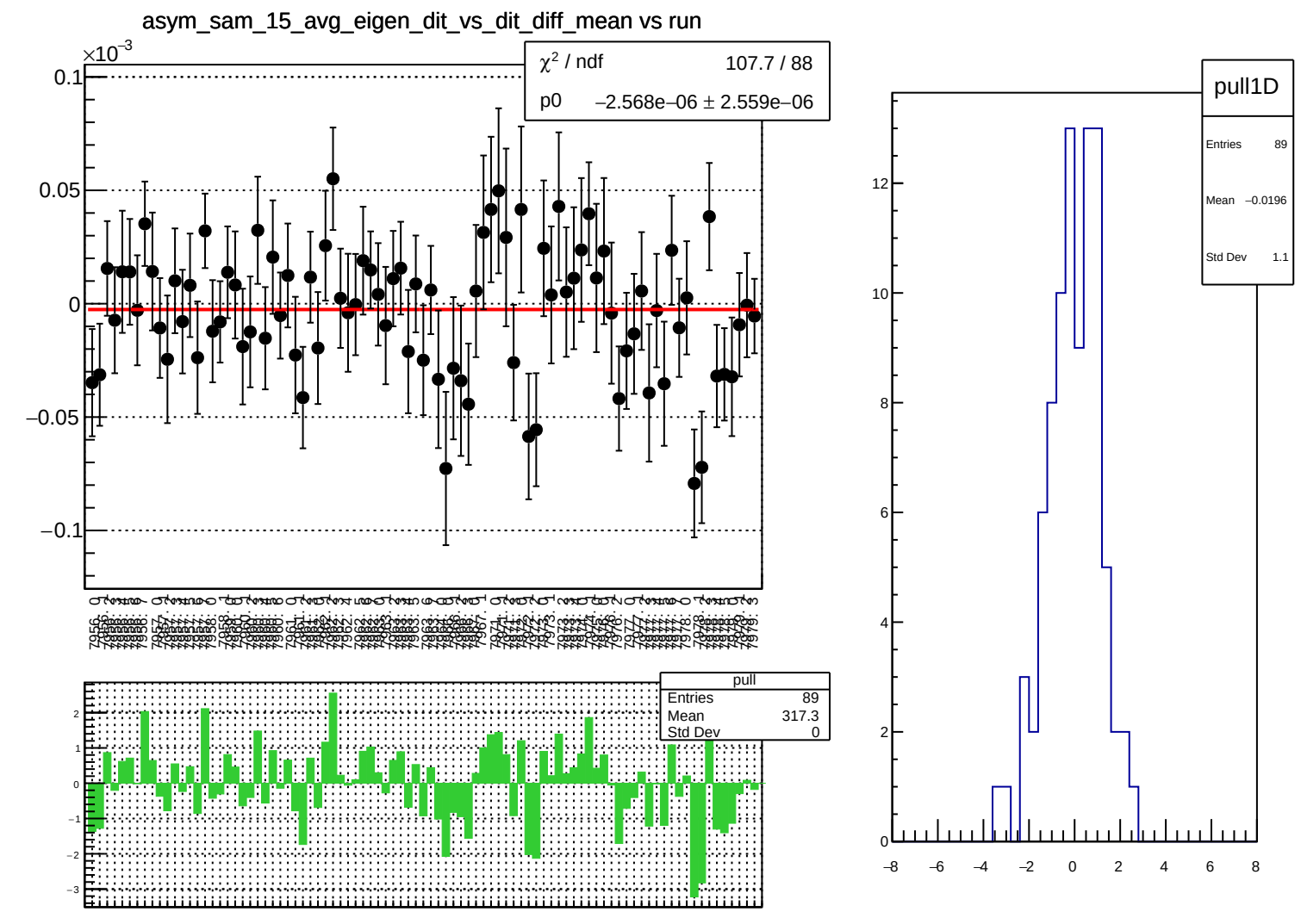

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.24 / 88
p0 0.0184 ± 0.03912
pull
Entries 89
Mean 108.4
Std Dev 0

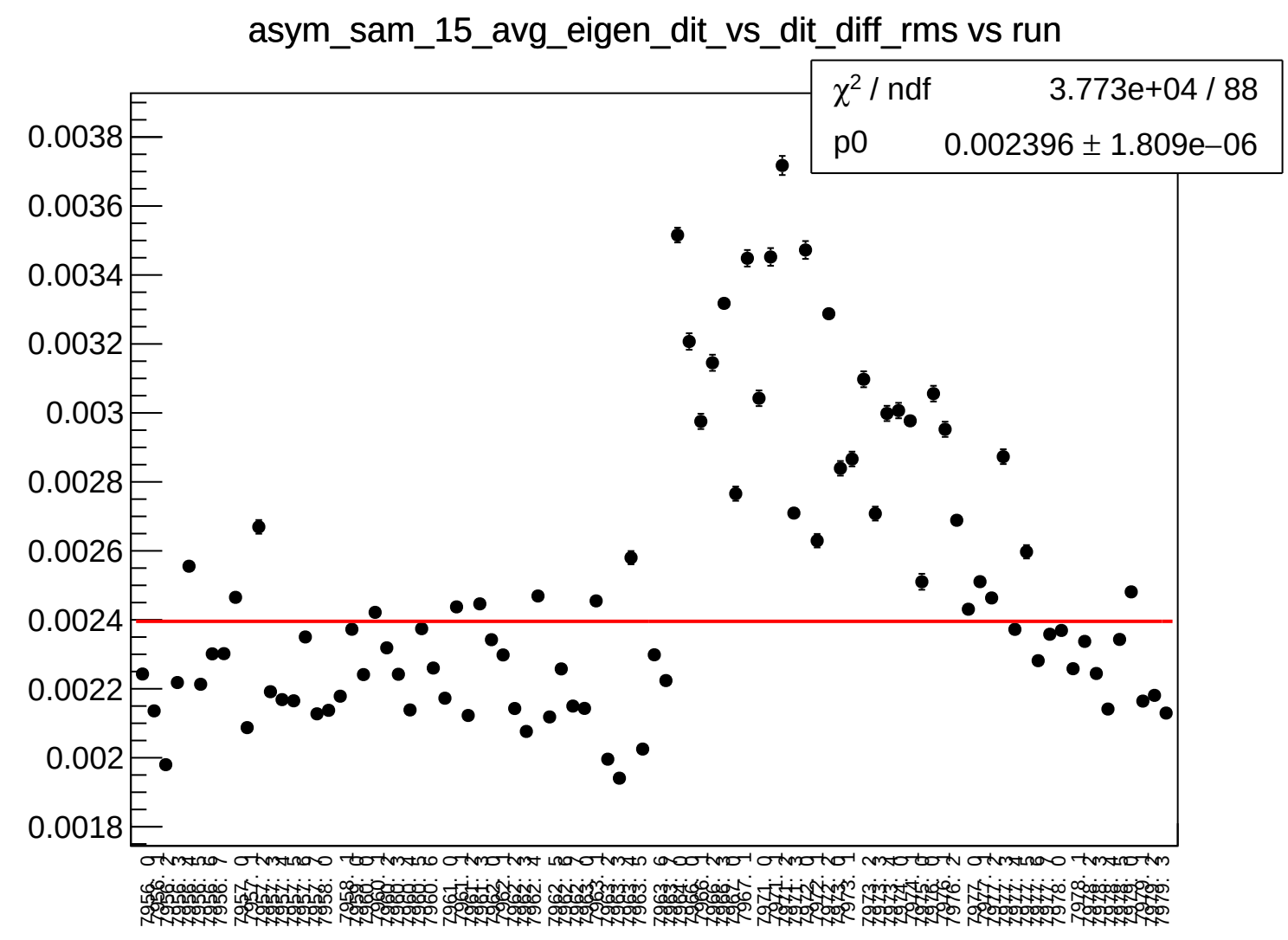

pull1D
Entries 89
Mean 0.03739
Std Dev 1.028

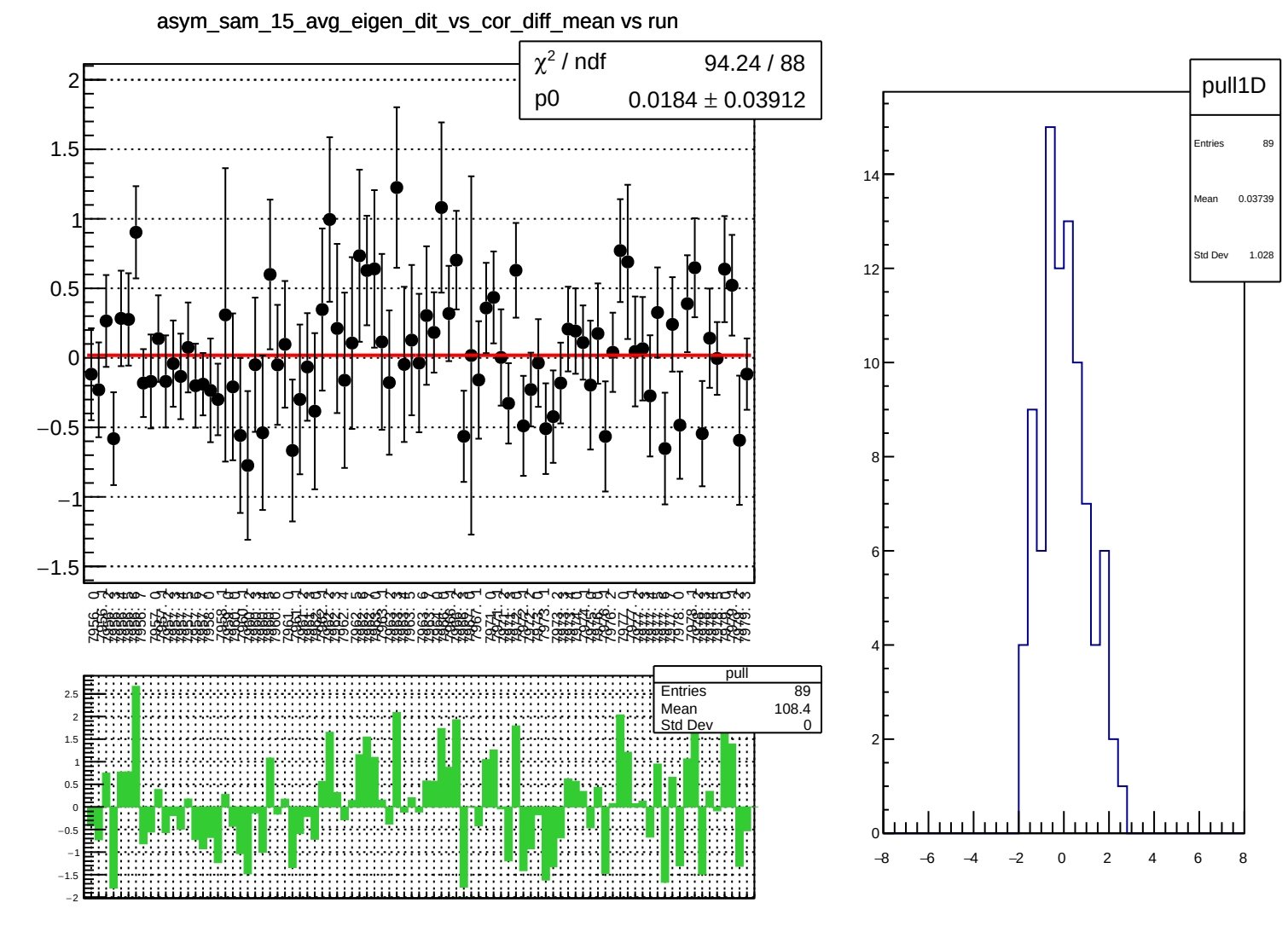

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.028e+05 / 88
p0 35.93 ± 0.02766
120
100
80
60
40
20

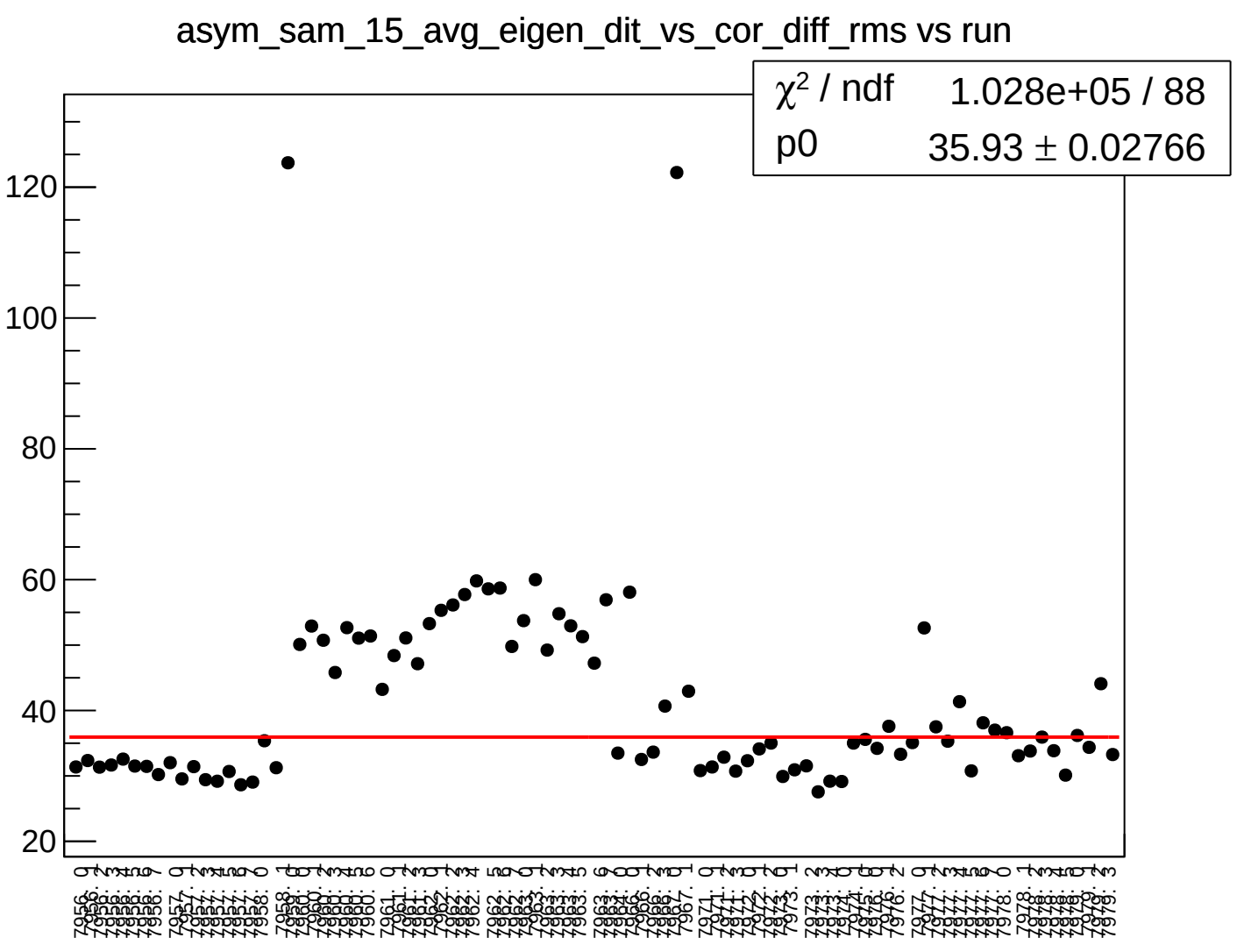

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.24 / 88
p0 0.0184 ± 0.03912
pull
Entries 89
Mean 108.4
Std Dev 0
pull1D
Entries 89
Mean 0.03739
Std Dev 1.028

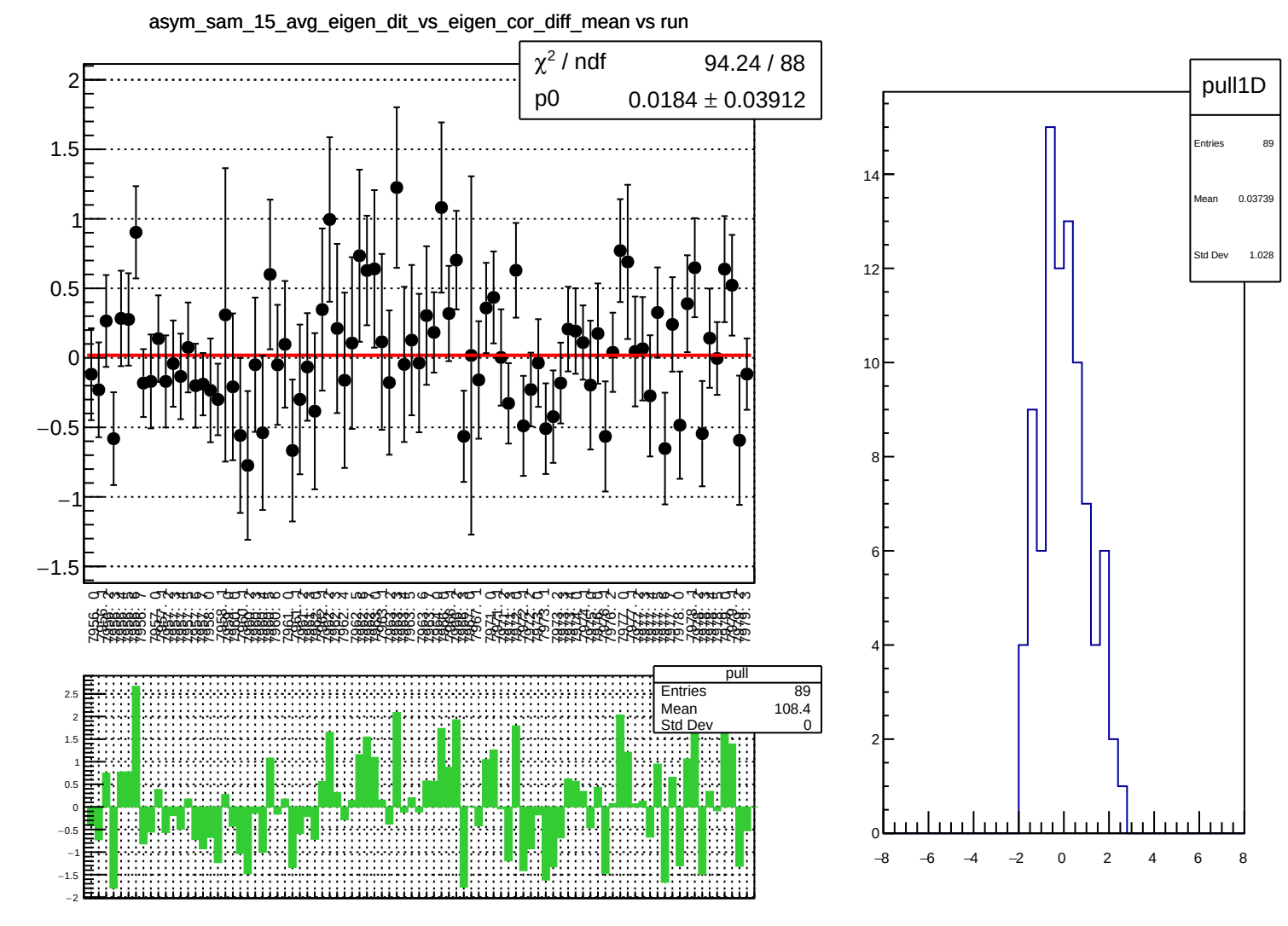

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.028e+05 / 88
p0 35.93 ± 0.02766
120
100
80
60
40
20

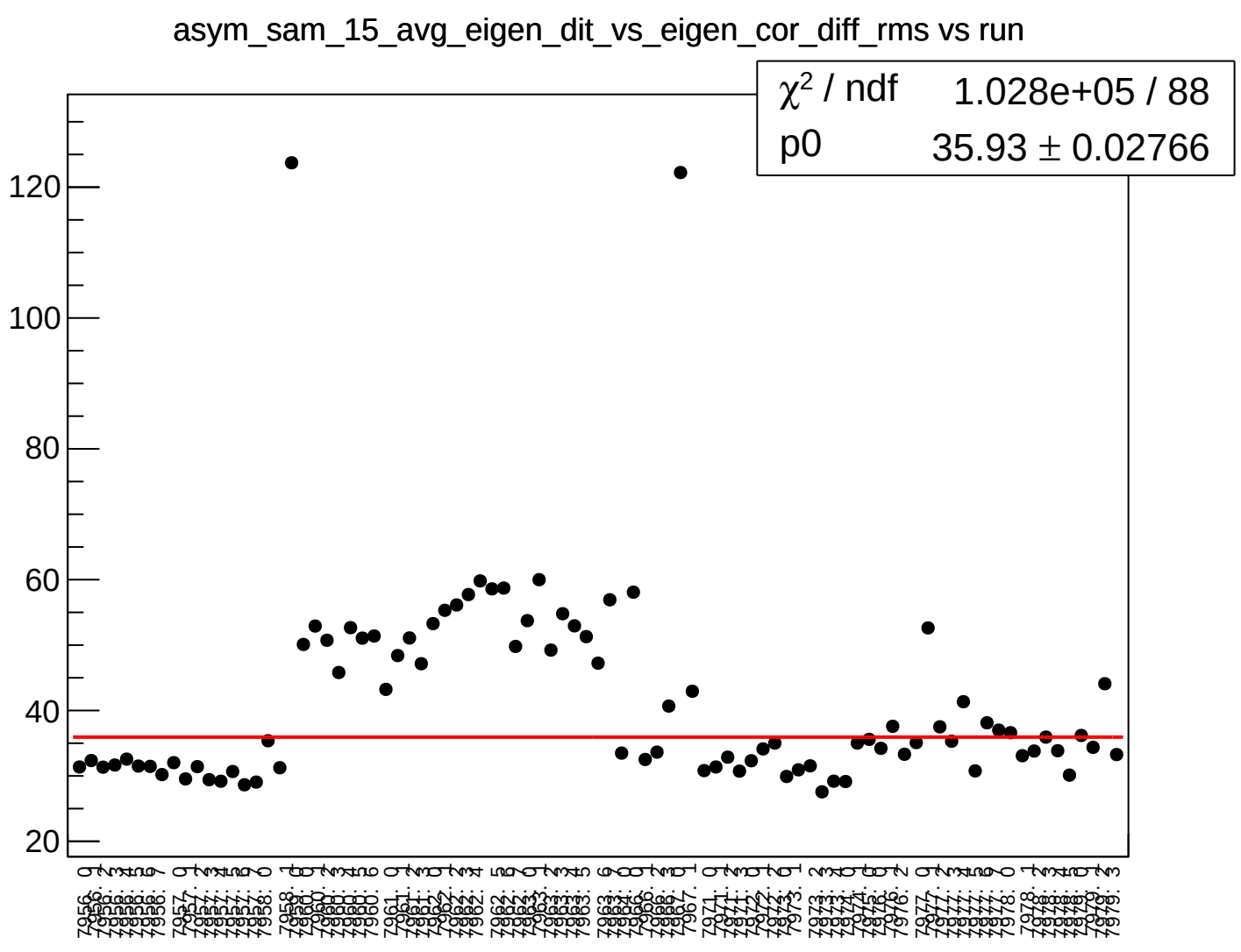

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.7 / 88
p0 −2.568e−06 ± 2.559e−06
pull
Entries 89
Mean 317.3
Std Dev 0
pull1D
Entries 89
Mean −0.0196
Std Dev 1.1

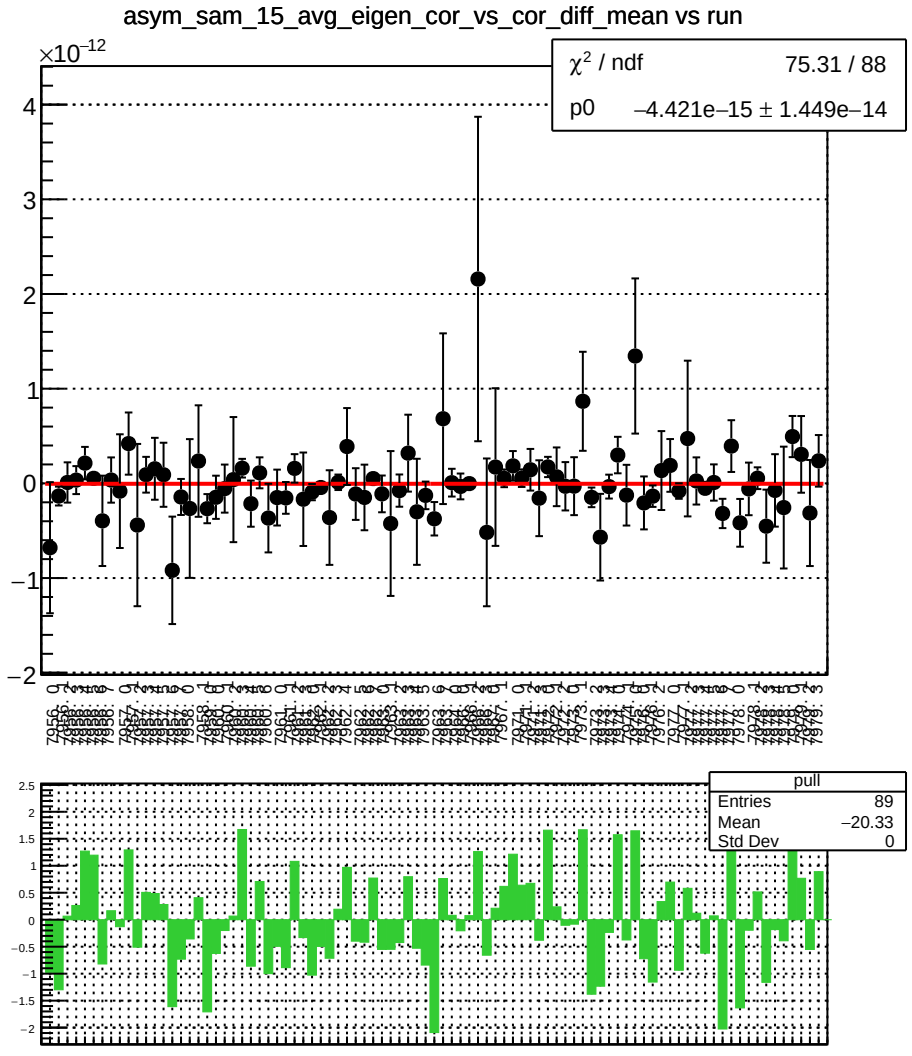

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.773e+04 / 88
p0 0.002396 ± 1.809e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

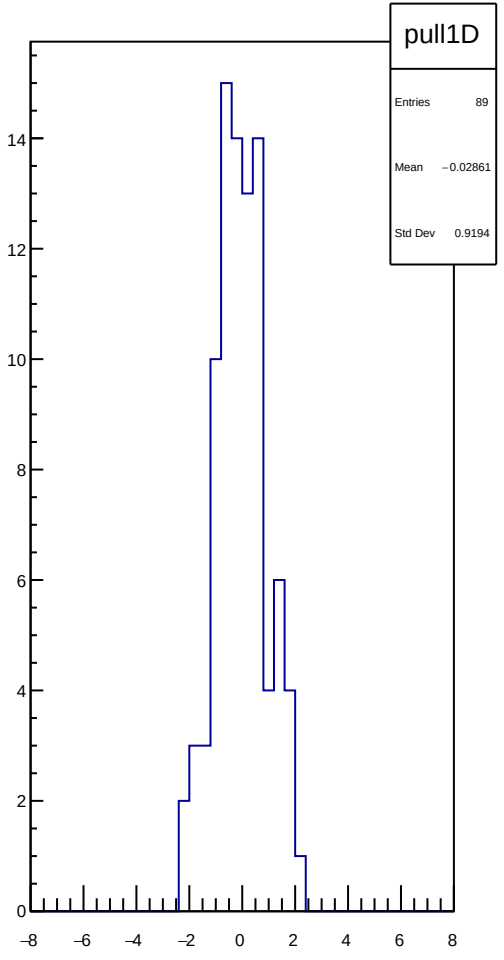

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.24 / 88
p0 0.0184 ± 0.03912
pull
Entries 89
Mean 108.4
Std Dev 0
pull1D
Entries 89
Mean 0.03739
Std Dev 1.028

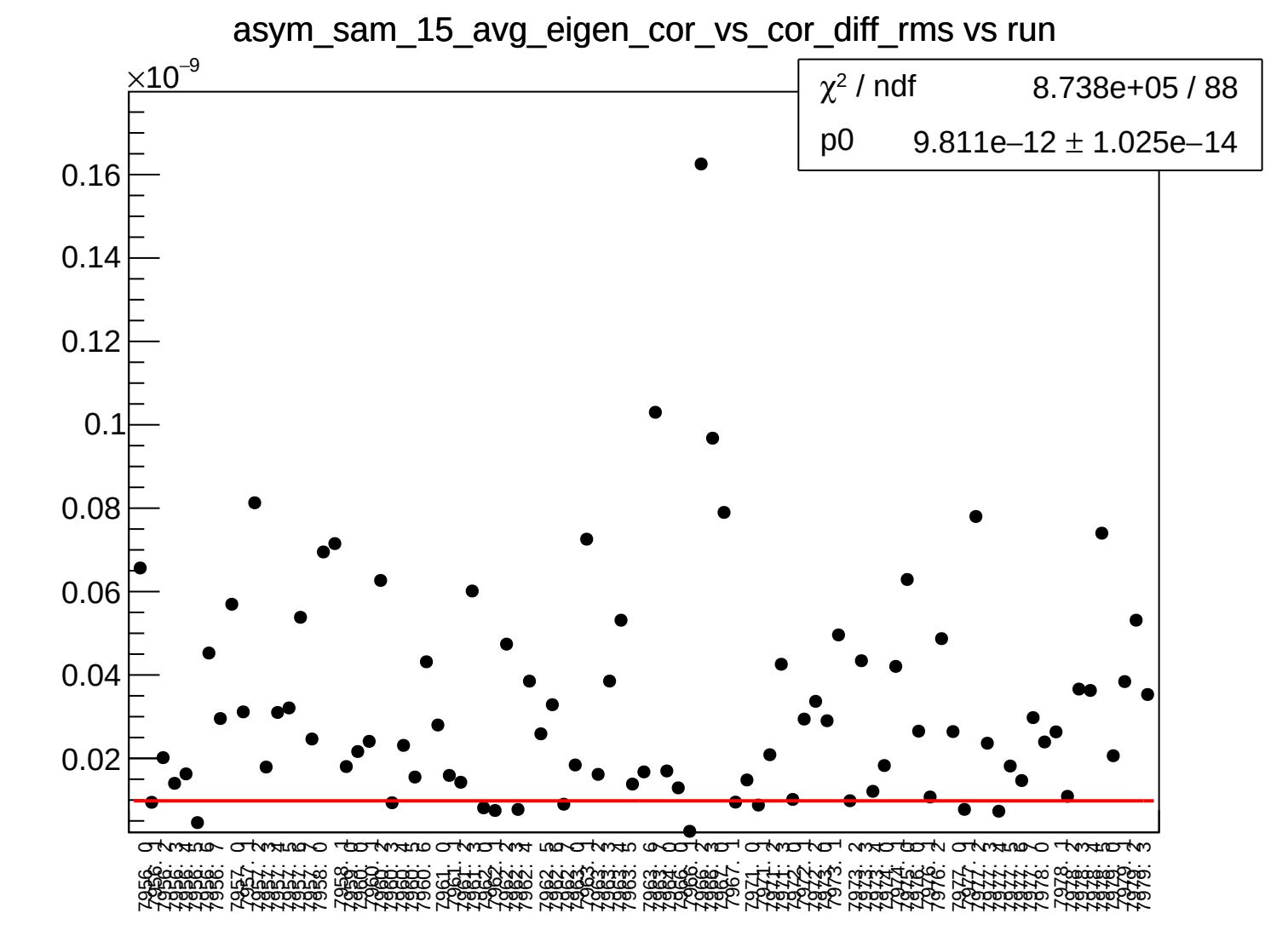

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.028e+05 / 88
p0 35.93 ± 0.02766
120
100
80
60
40
20

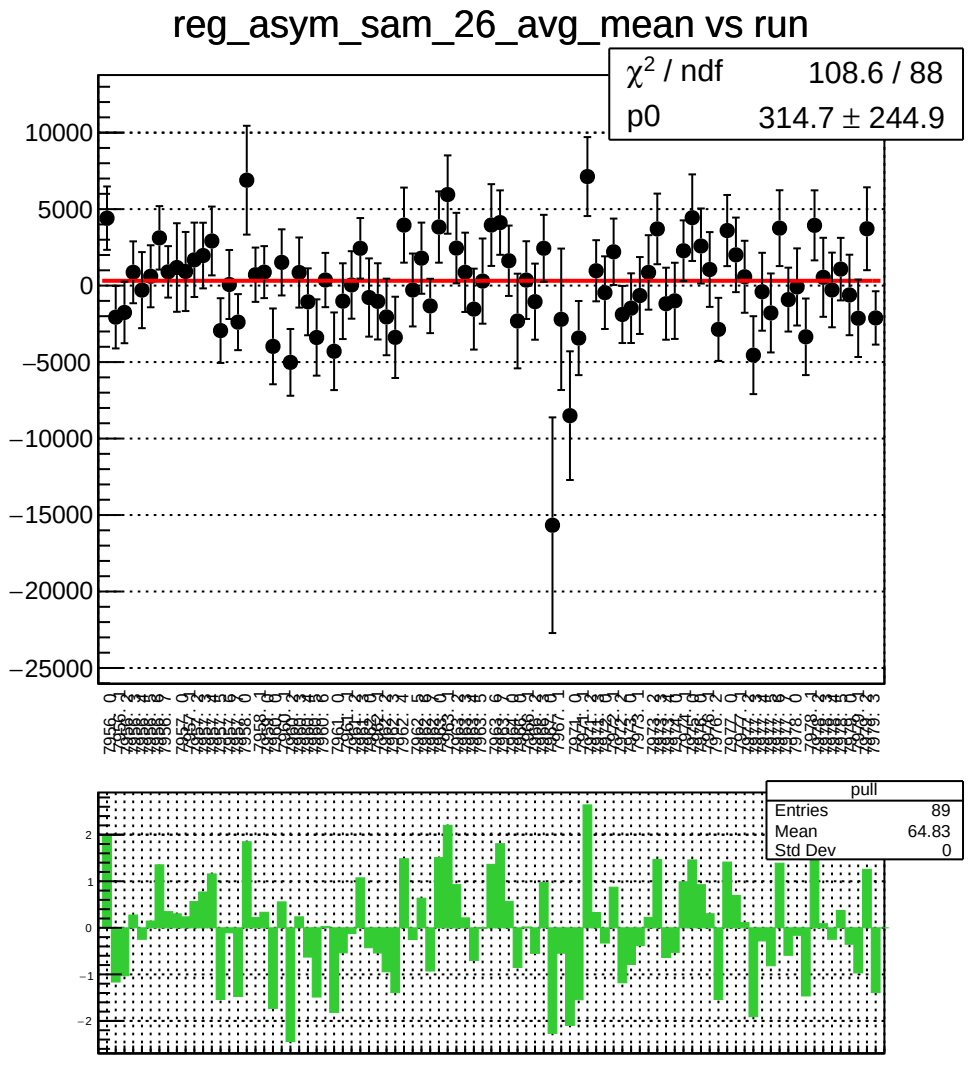

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.24 / 88
p0 0.0184 ± 0.03912
pull
Entries 89
Mean 108.4
Std Dev 0
pull1D
Entries 89
Mean 0.03739
Std Dev 1.028

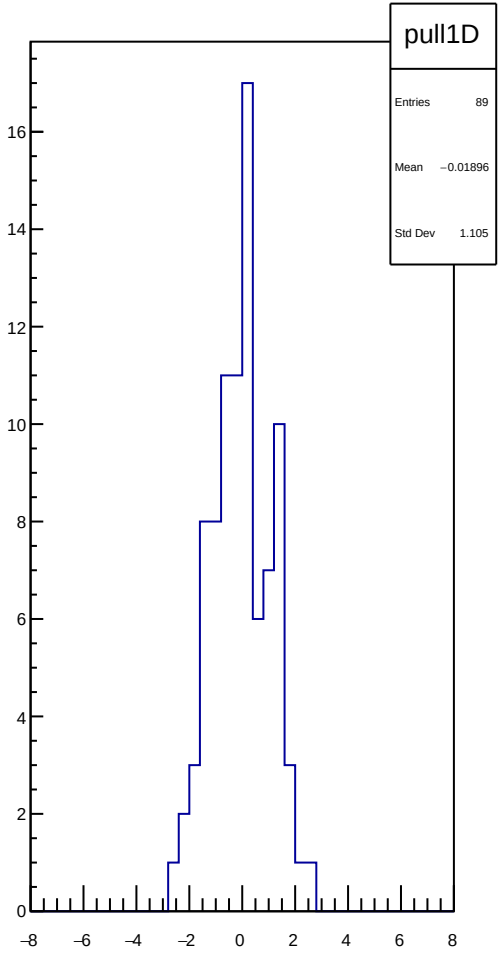

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.028e+05 / 88
p0 35.93 ± 0.02766
120
100
80
60
40
20

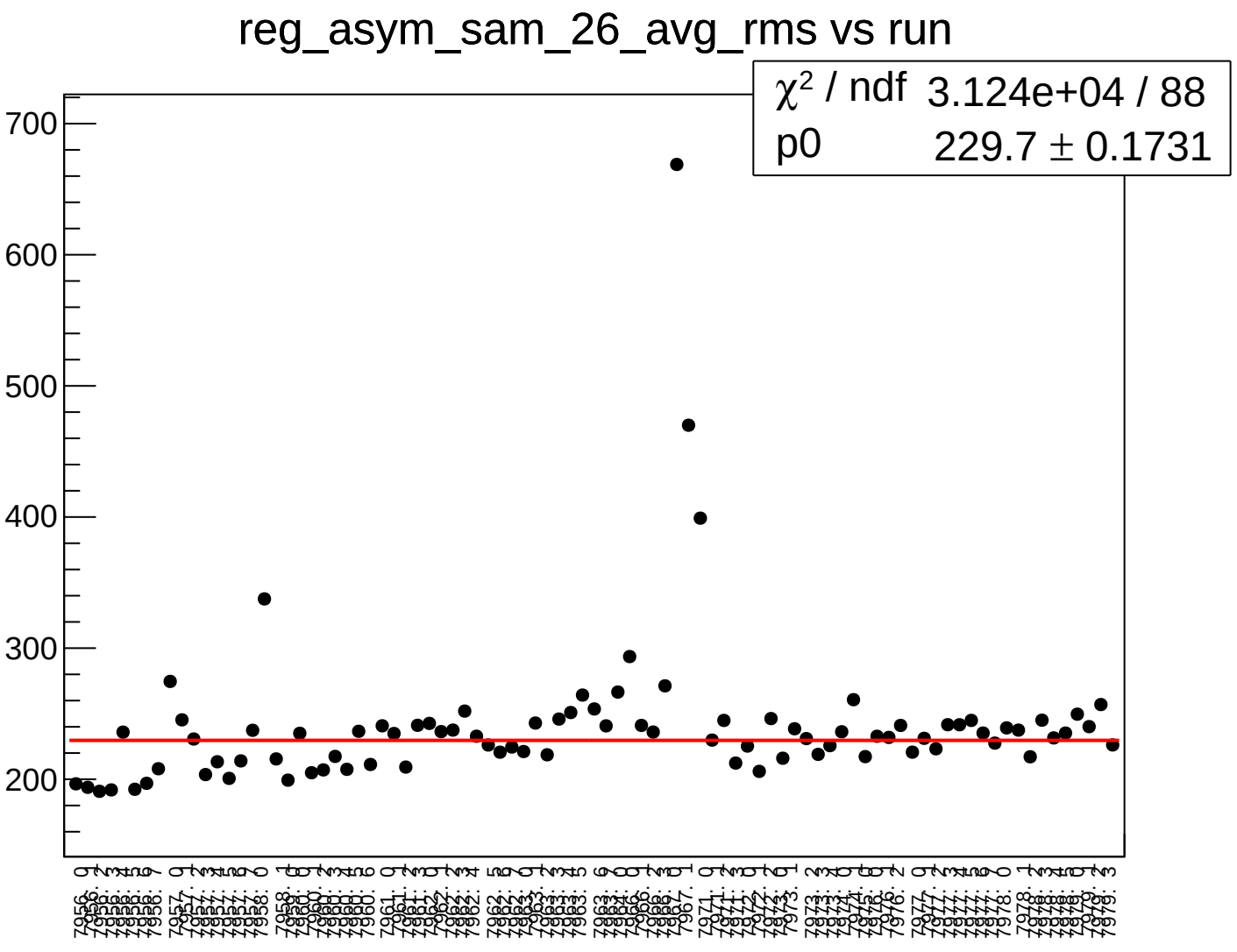

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.31 / 88
p0 −4.421e−15 ± 1.449e−14
pull
Entries 89
Mean −20.33
Std Dev 0

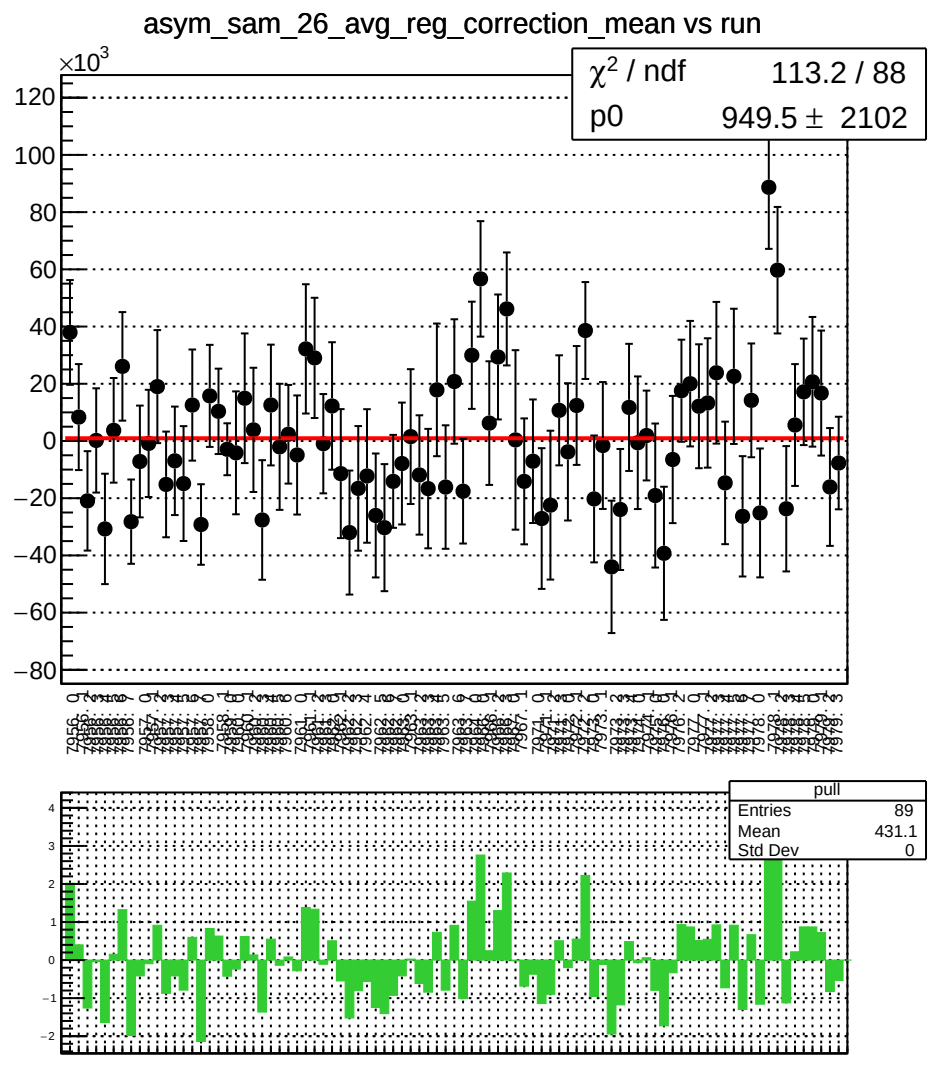

pull1D
Entries 89
Mean −0.02861
Std Dev 0.9194

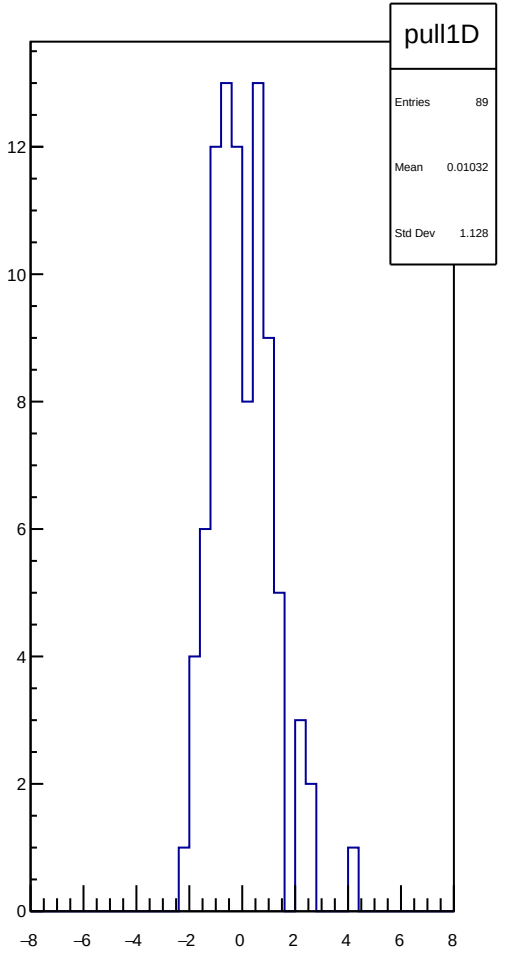

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.738e+05 / 88
p0 9.811e−12 ± 1.025e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

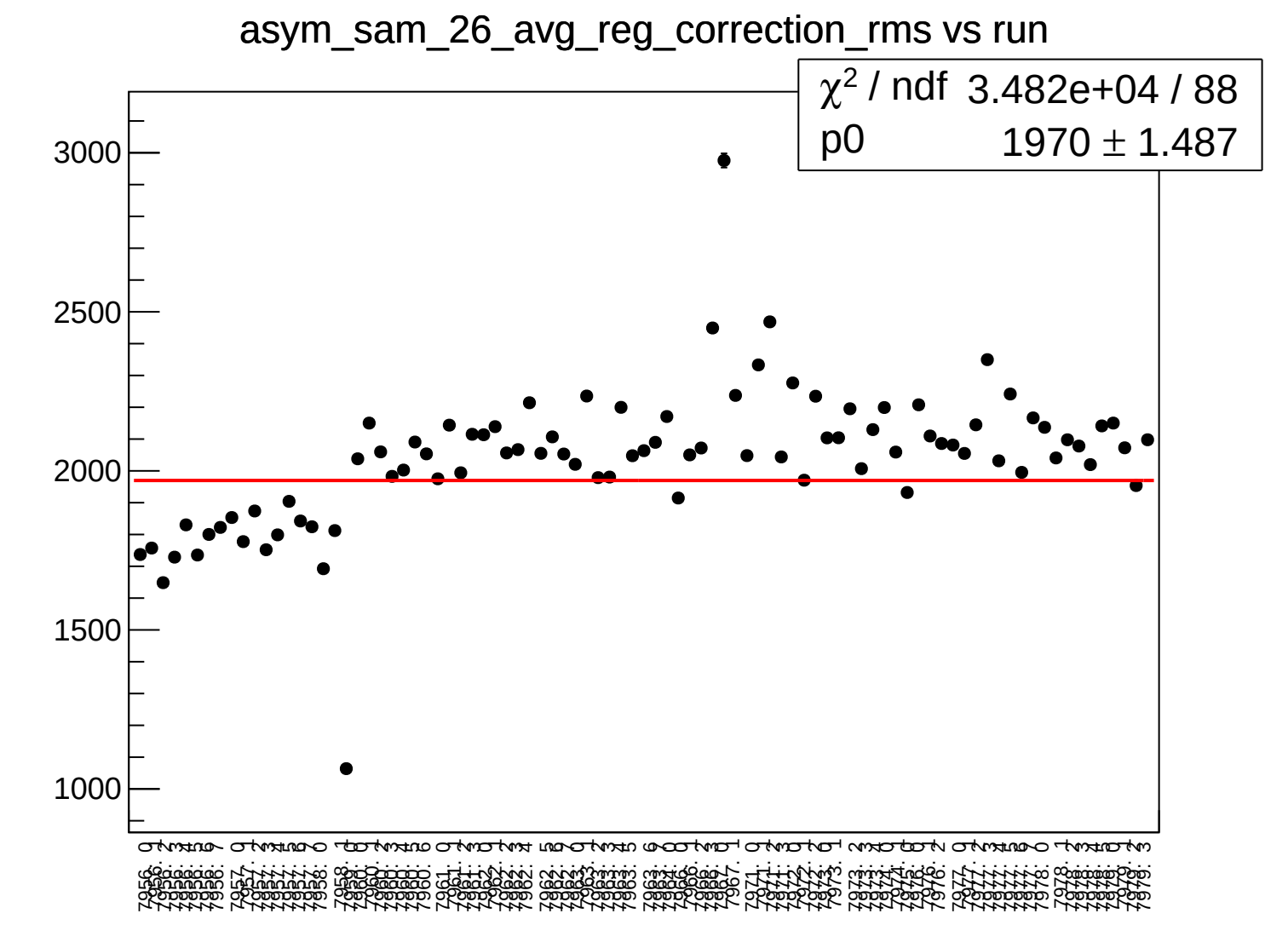

reg_asym_sam_26_avg_mean vs run
χ² / ndf 108.6 / 88
p0 314.7 ± 244.9
pull
Entries 89
Mean 64.83
Std Dev 0

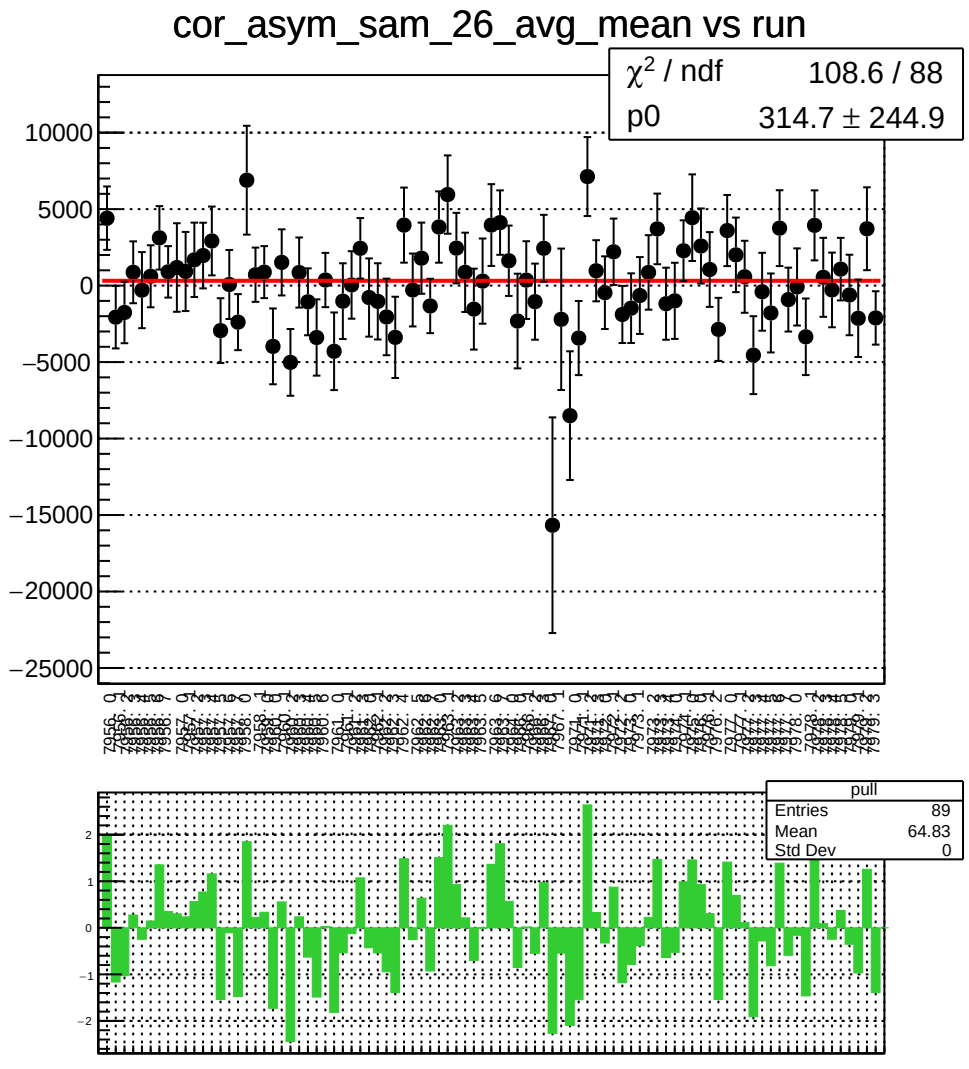

pull1D
Entries 89
Mean −0.01896
Std Dev 1.105

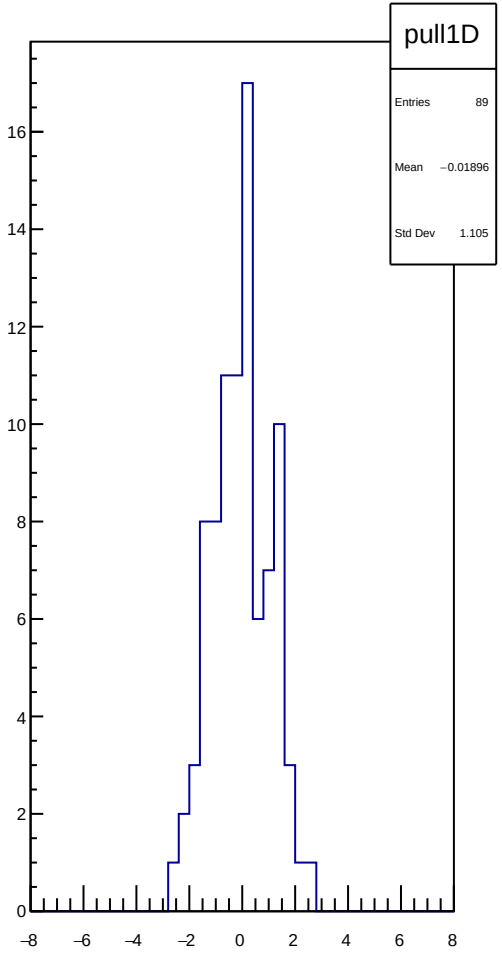

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3.124e+04 / 88
p0 229.7 ± 0.1731
700
600
500
400
300
200

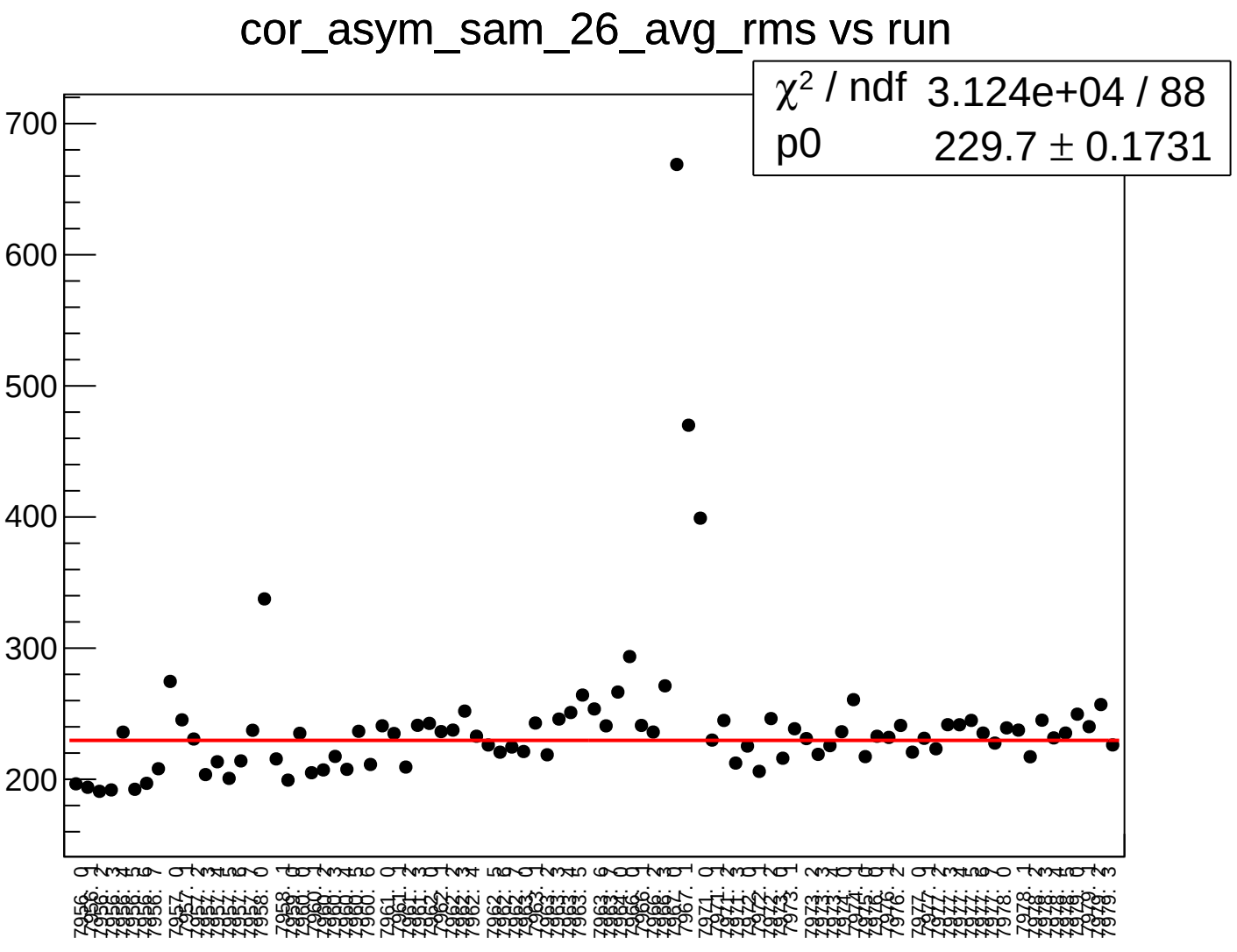

asym_sam_26_avg_reg_correction_mean vs run
×10^3
χ² / ndf 113.2 / 88
p0 949.5 ± 2102
pull
Entries 89
Mean 431.1
Std Dev 0

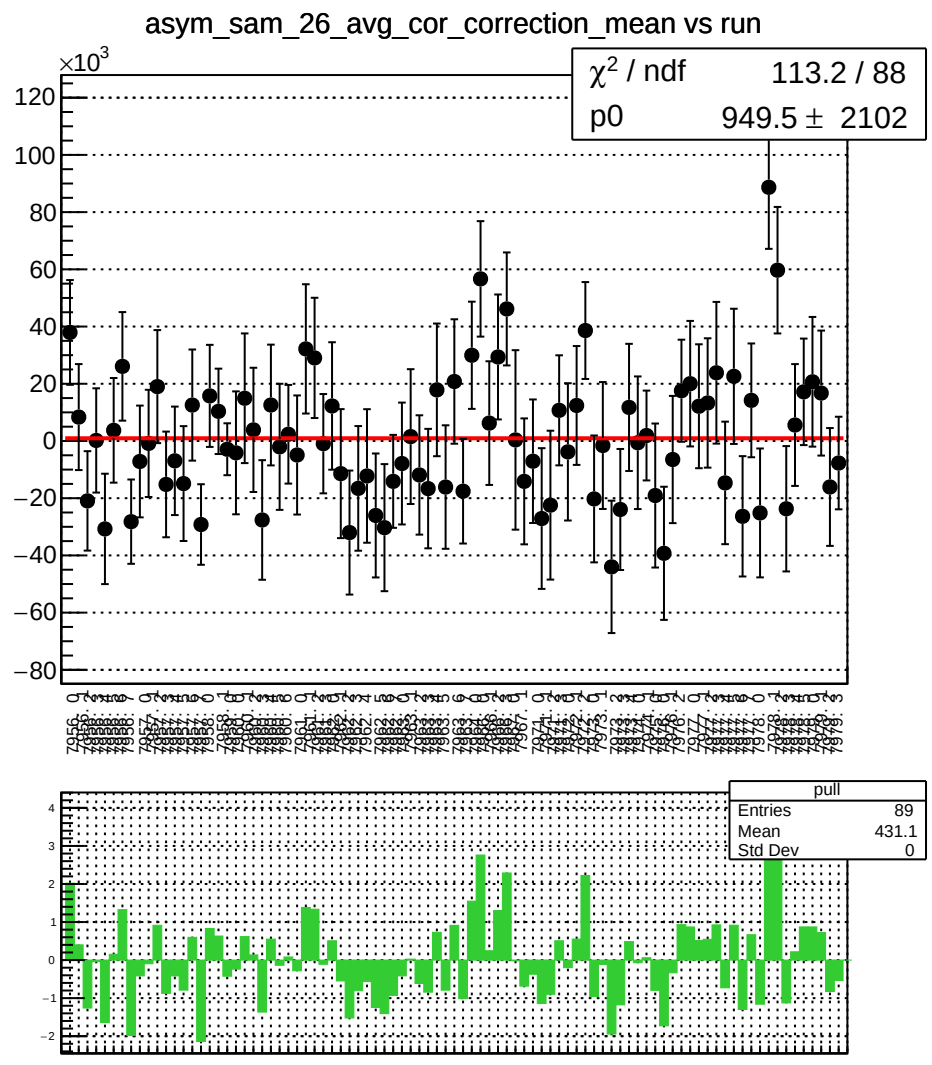

pull1D
Entries 89
Mean 0.01032
Std Dev 1.128

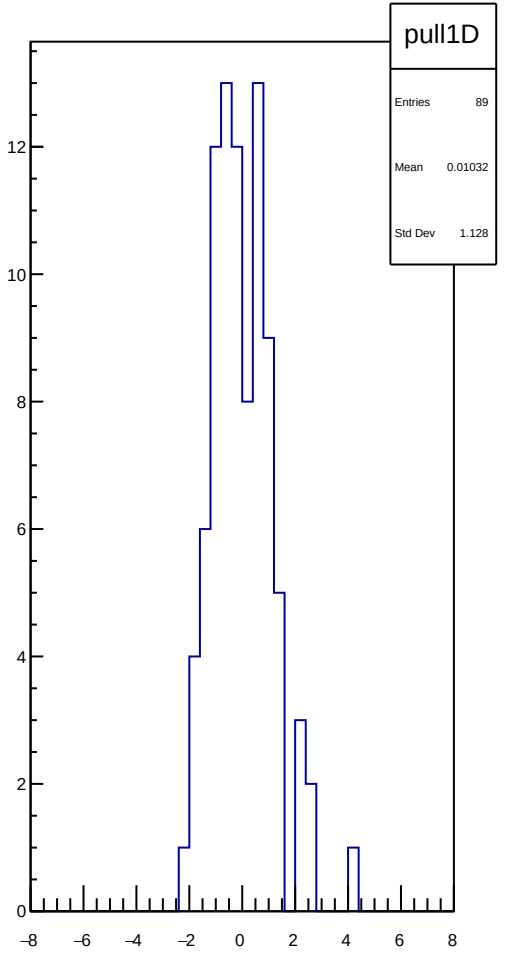

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 3.482e+04 / 88
p0 1970 ± 1.487
3000
2500
2000
1500
1000

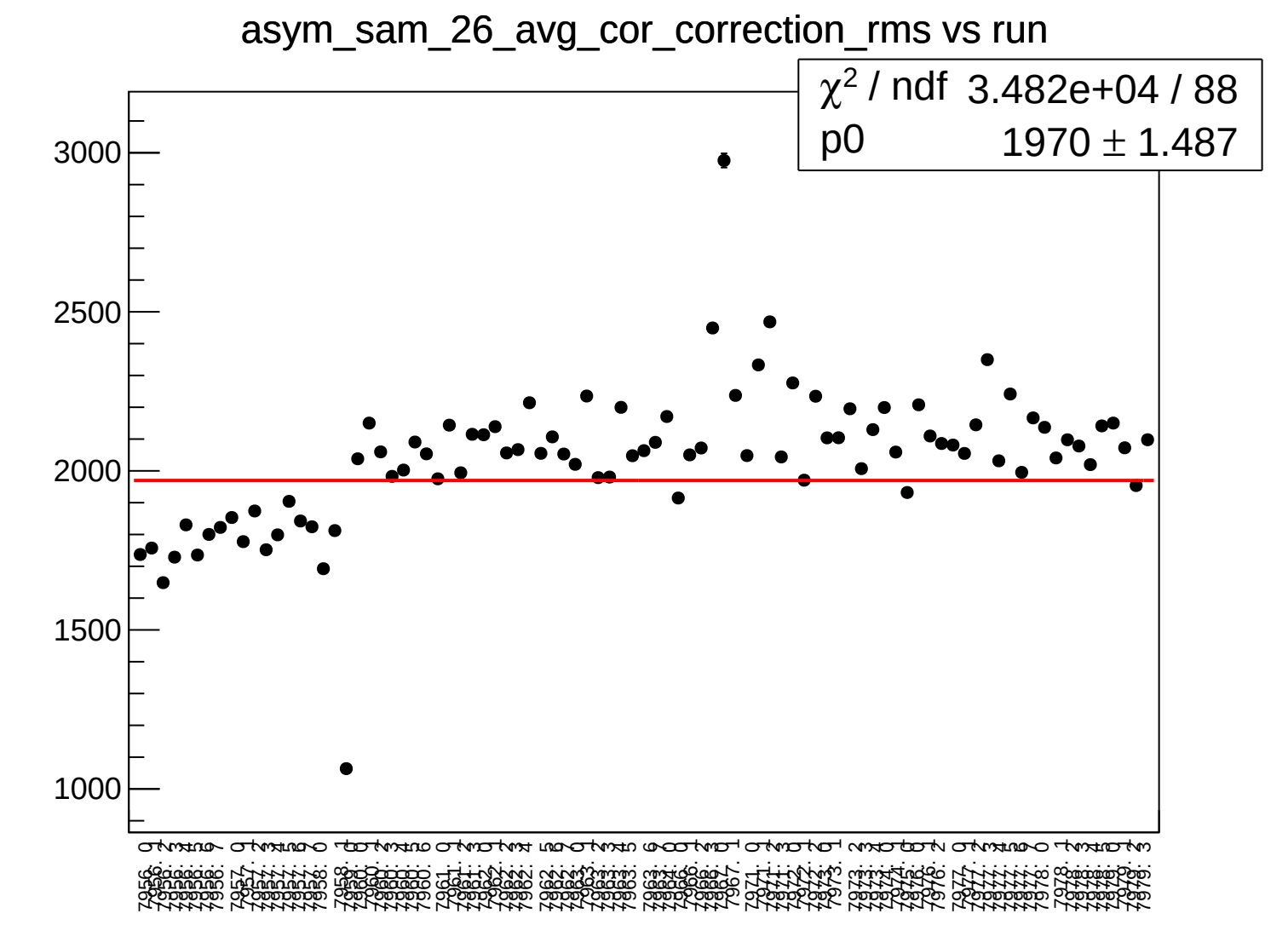

cor_asym_sam_26_avg_mean vs run
χ² / ndf 108.6 / 88
p0 314.7 ± 244.9
pull
Entries 89
Mean 64.83
Std Dev 0

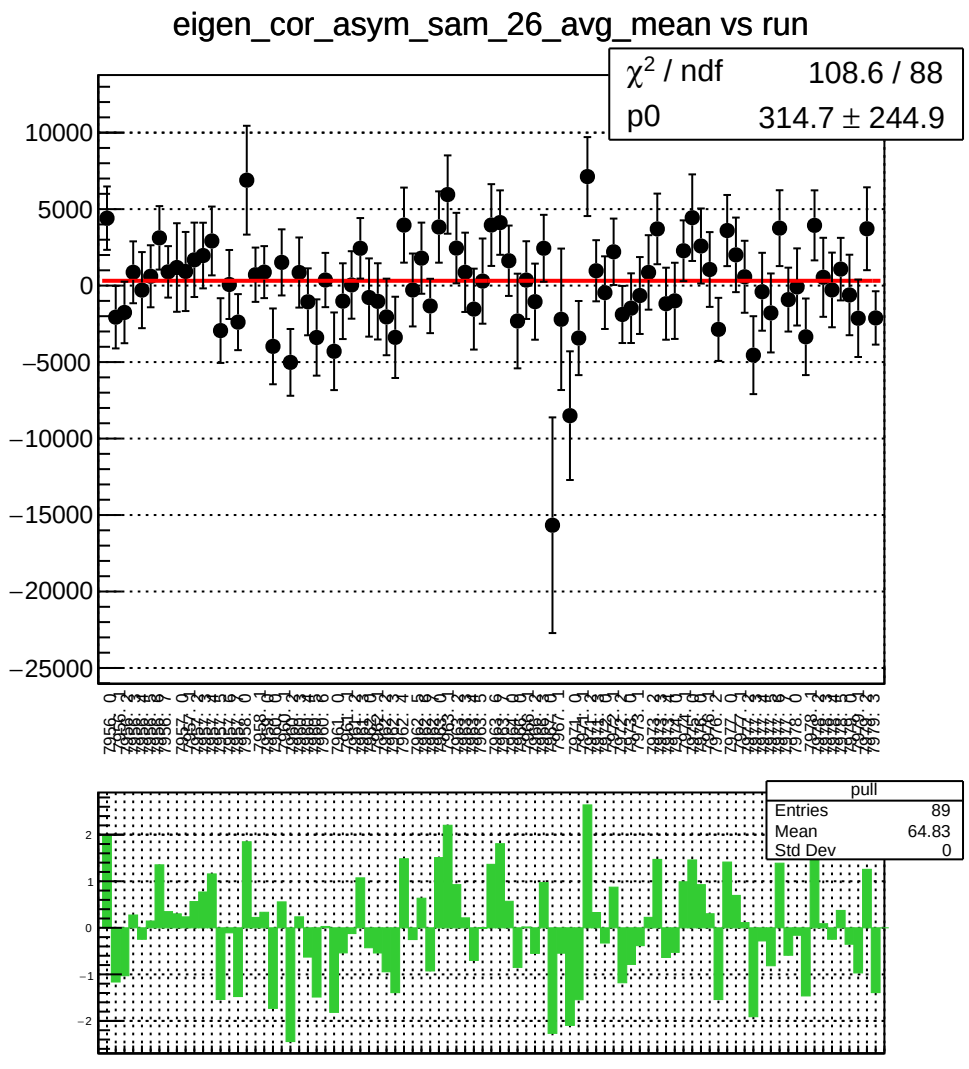

pull1D
Entries 89
Mean −0.01896
Std Dev 1.105

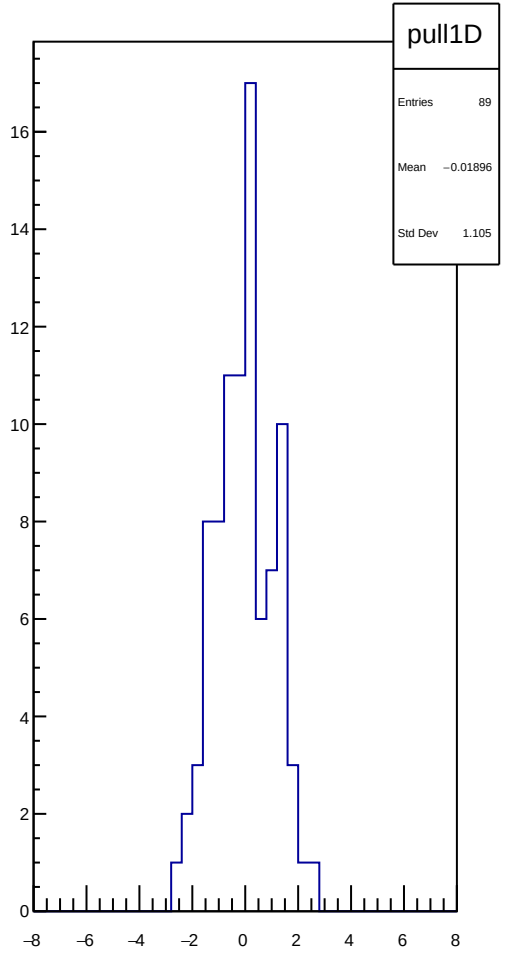

cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.124e+04 / 88
p0 229.7 ± 0.1731
700
600
500
400
300
200

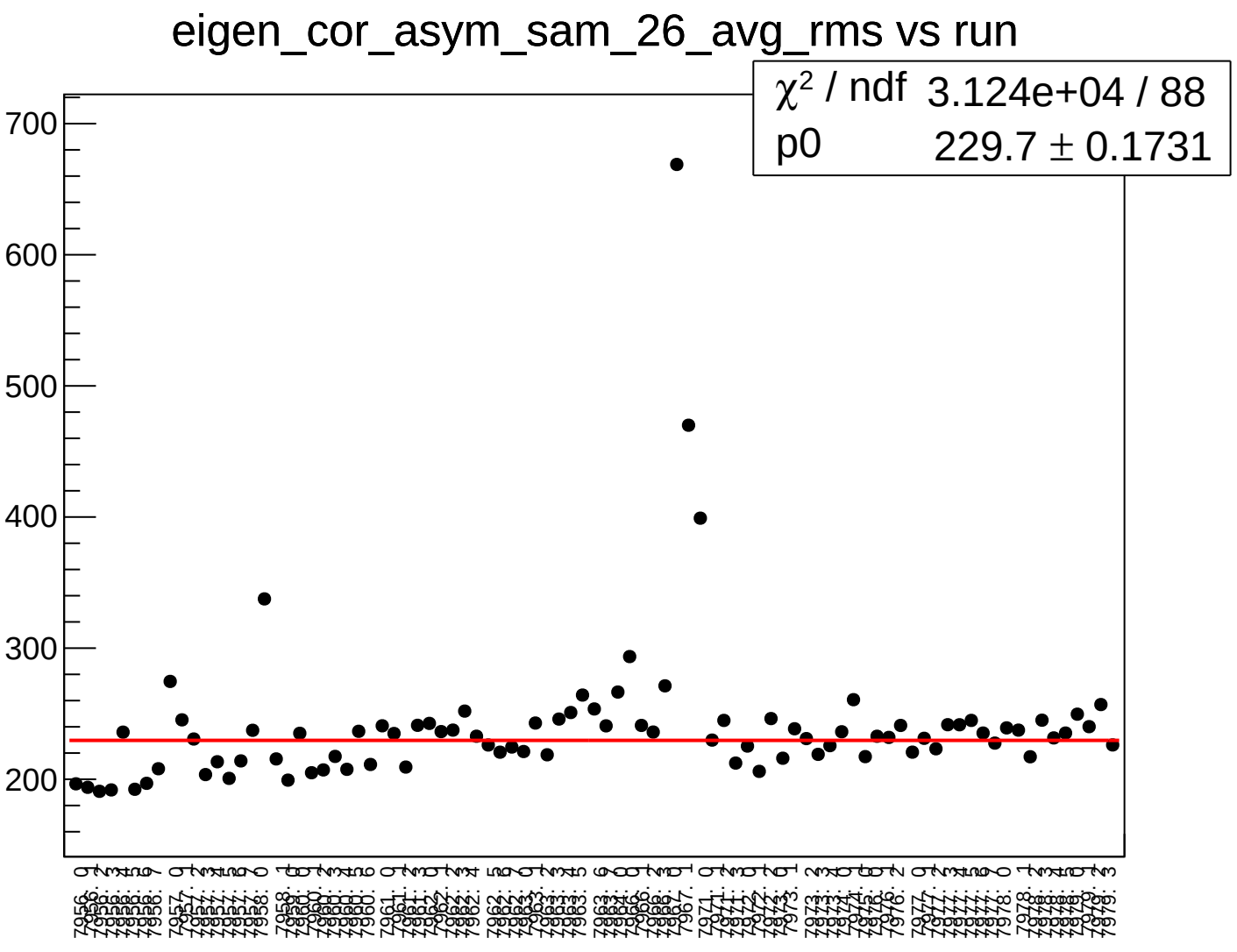

asym_sam_26_avg_cor_correction_mean vs run
×10^3
χ² / ndf 113.2 / 88
p0 949.5 ± 2102
pull
Entries 89
Mean 431.1
Std Dev 0

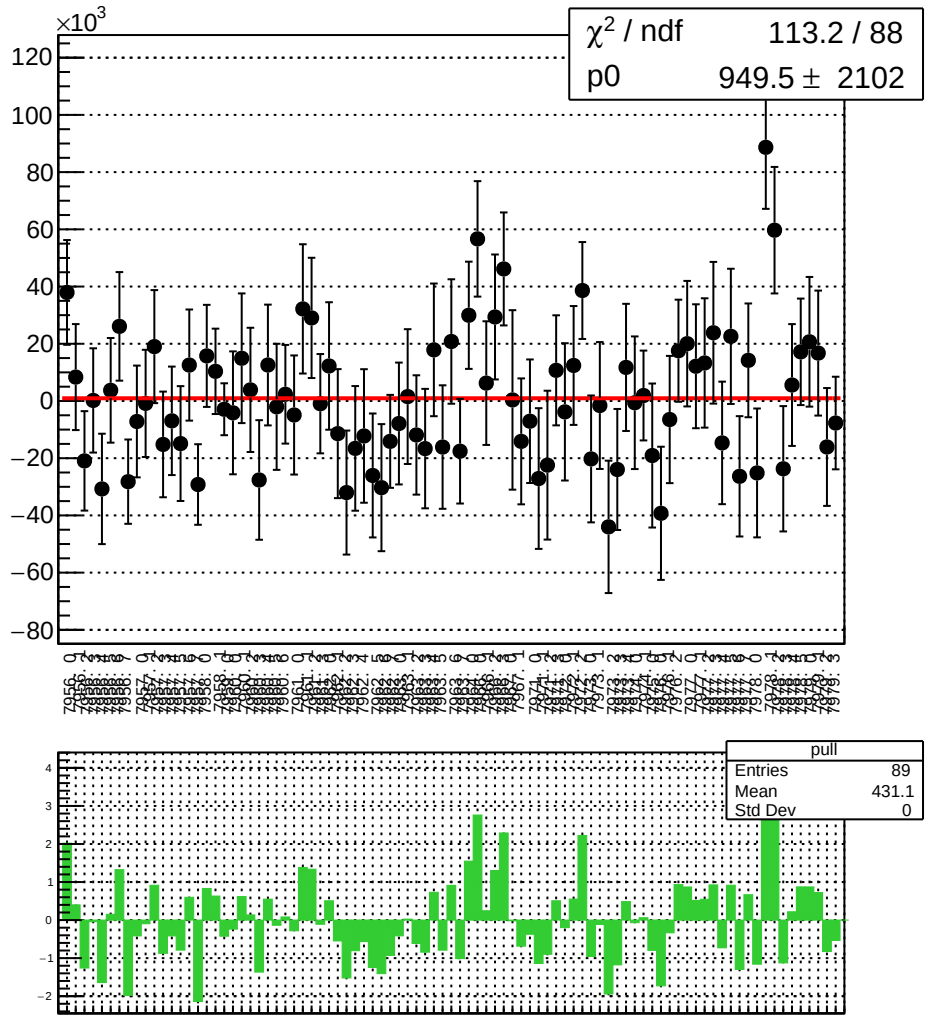

pull1D
Entries 89
Mean 0.01032
Std Dev 1.128

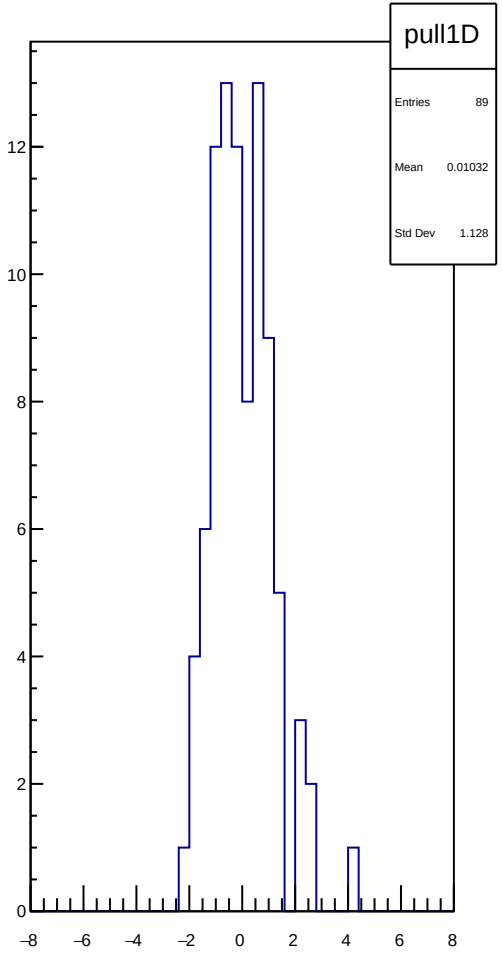

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 3.482e+04 / 88
p0 1970 ± 1.487
3000
2500
2000
1500
1000

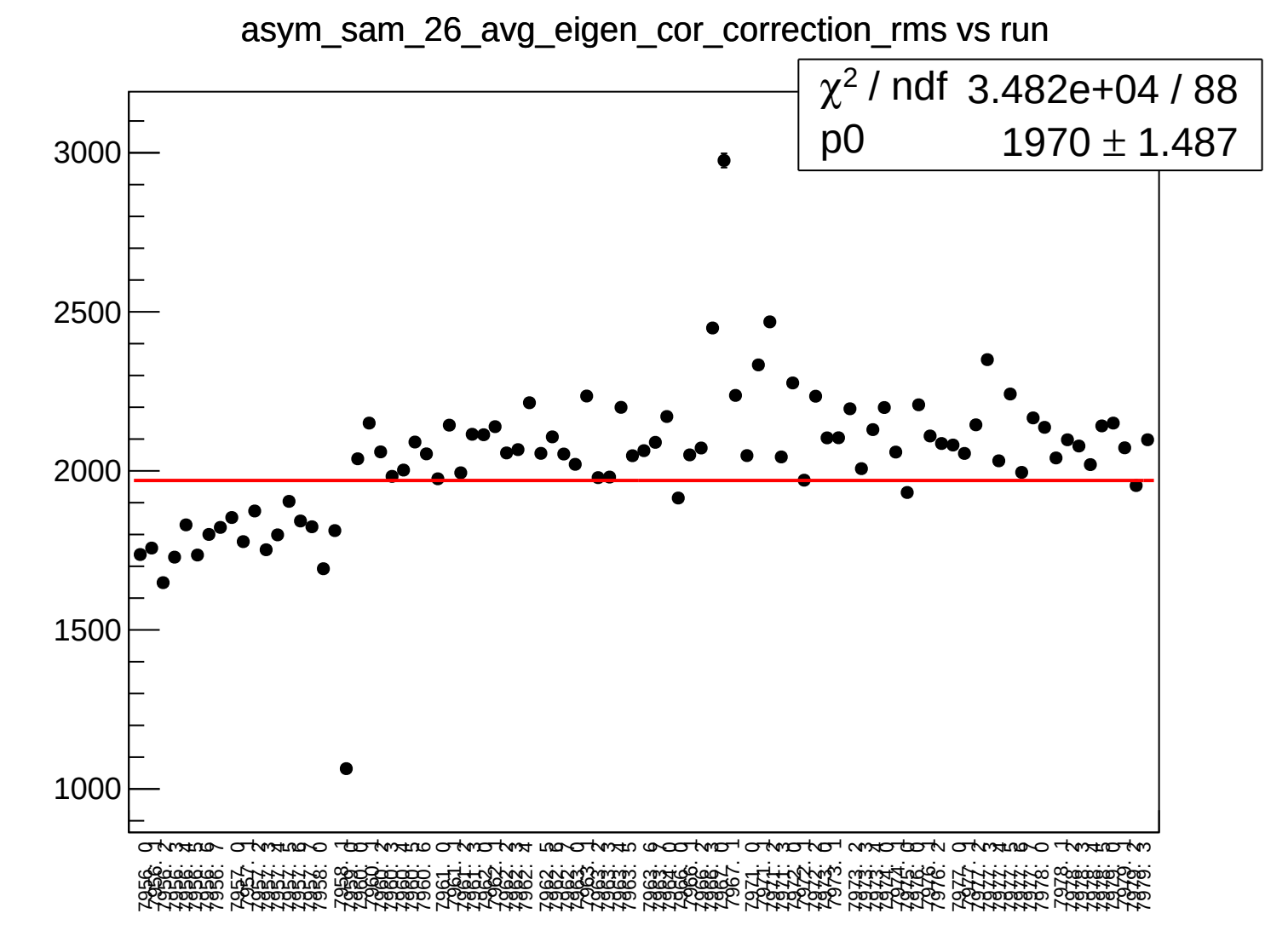

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 108.6 / 88
p0 314.7 ± 244.9
pull
Entries 89
Mean 64.83
Std Dev 0

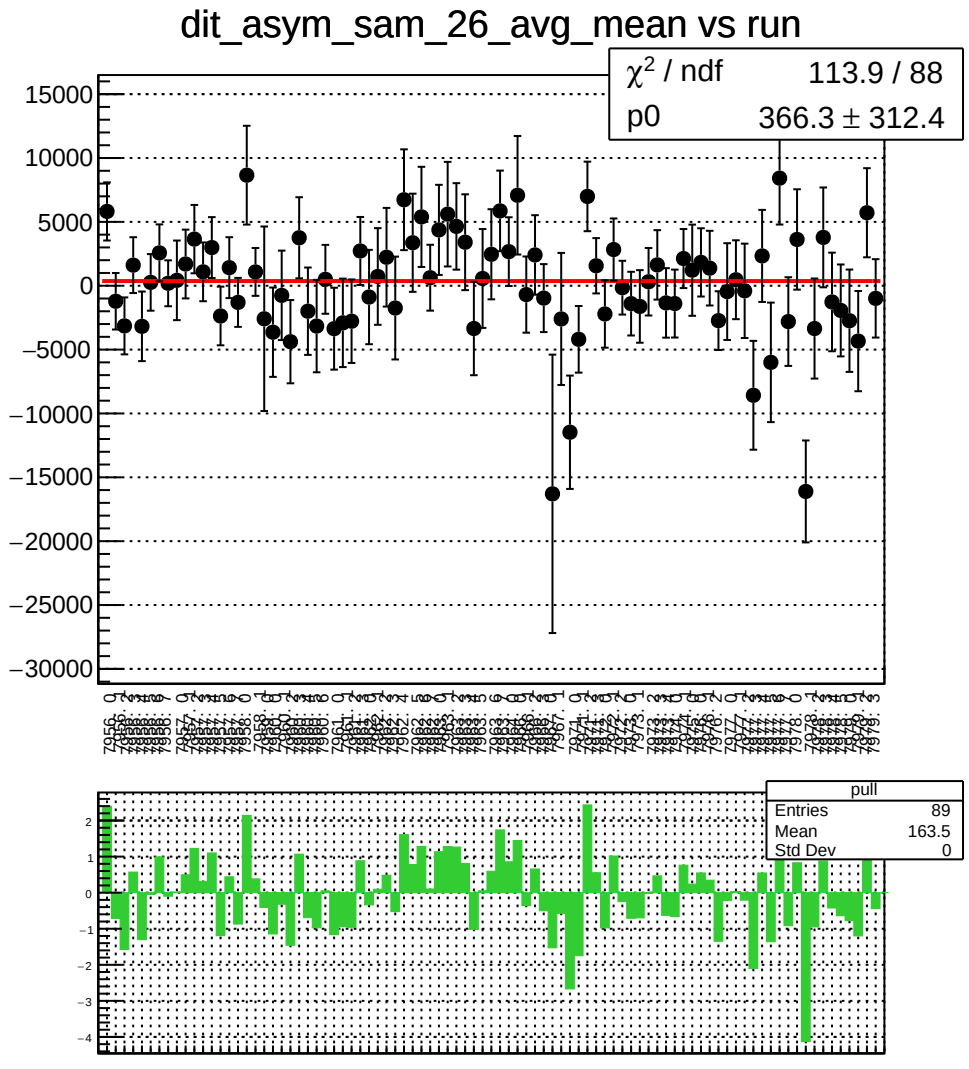

pull1D
Entries 89
Mean −0.01896
Std Dev 1.105

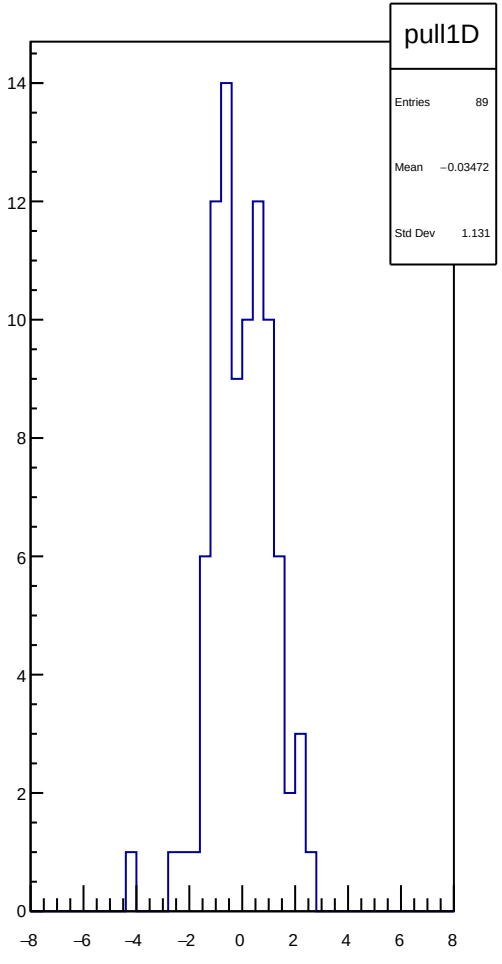

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.124e+04 / 88
p0 229.7 ± 0.1731
700
600
500
400
300
200

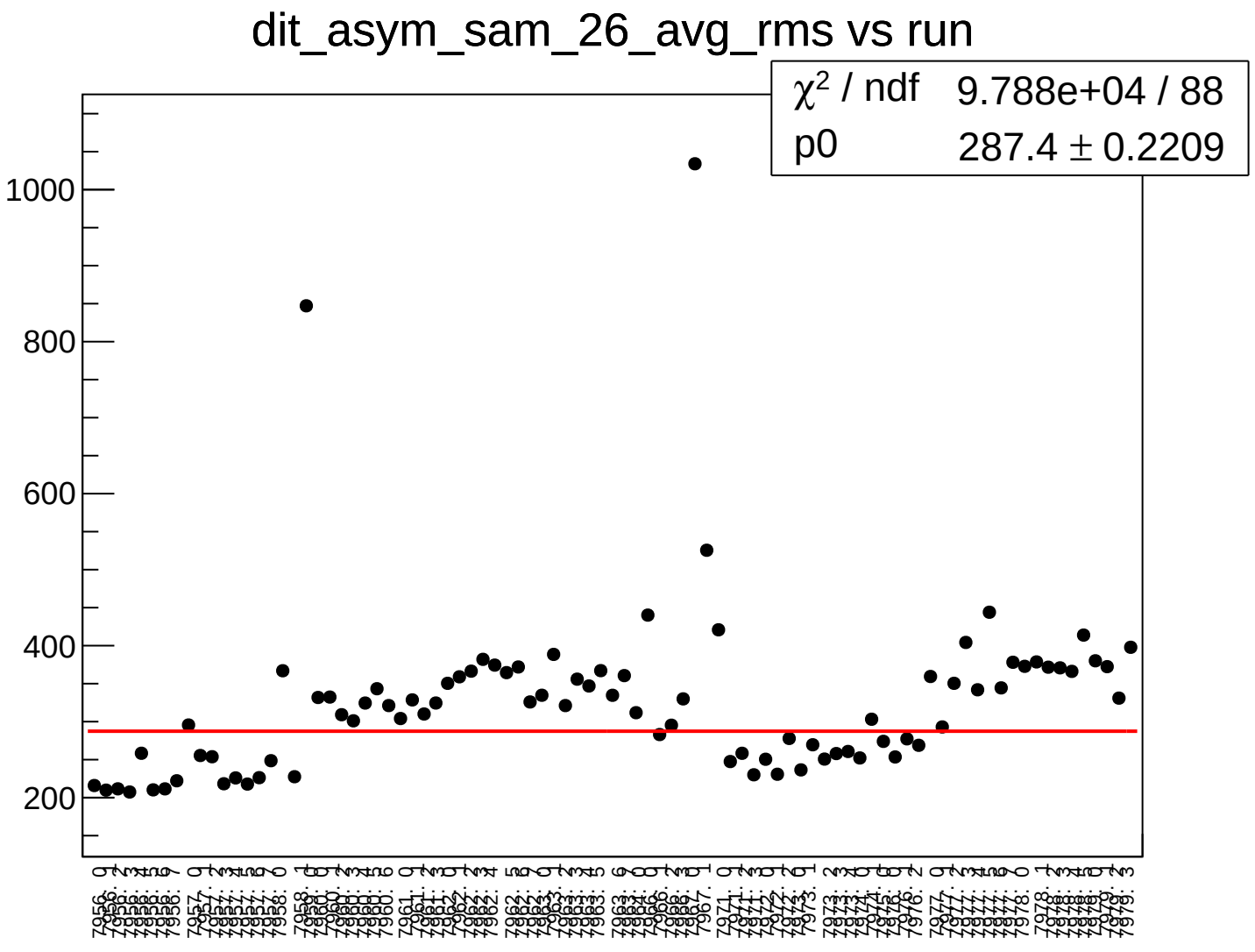

asym_sam_26_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 113.2 / 88
p0 949.5 ± 2102
pull
Entries 89
Mean 431.1
Std Dev 0

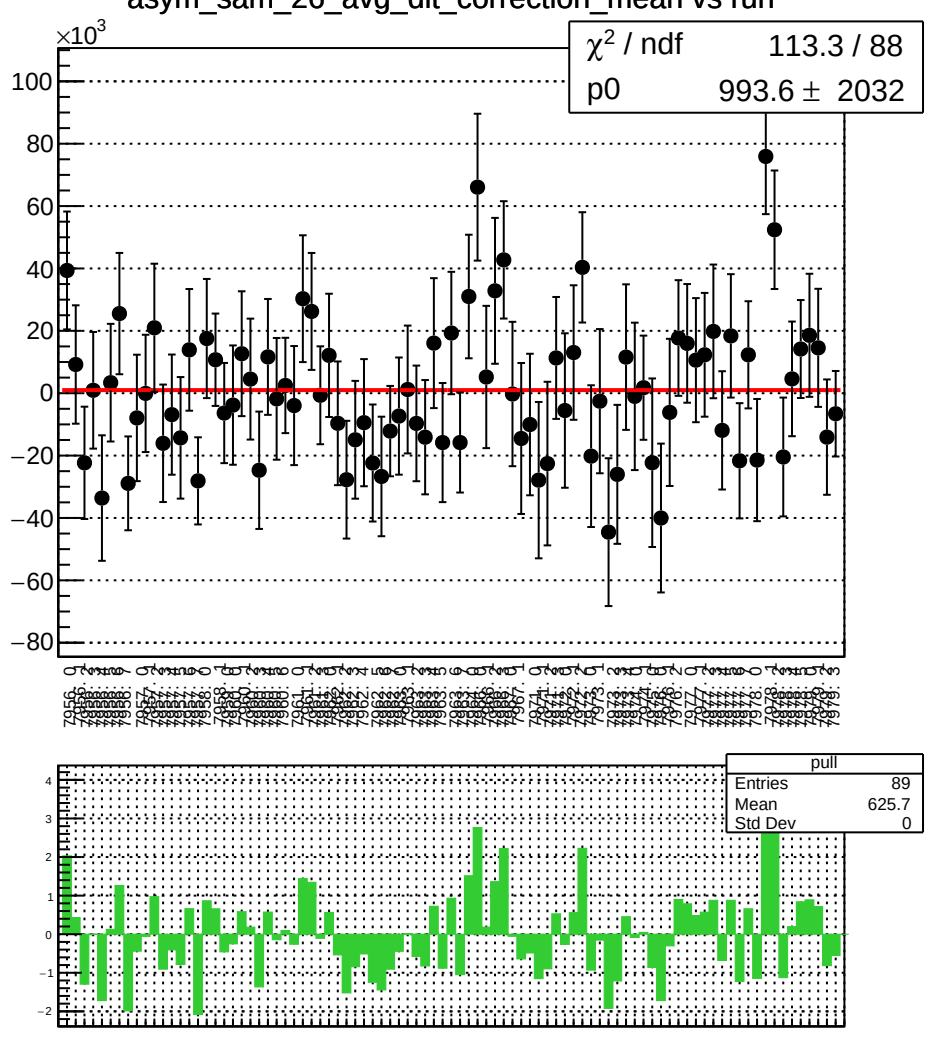

pull1D
Entries 89
Mean 0.01032
Std Dev 1.128

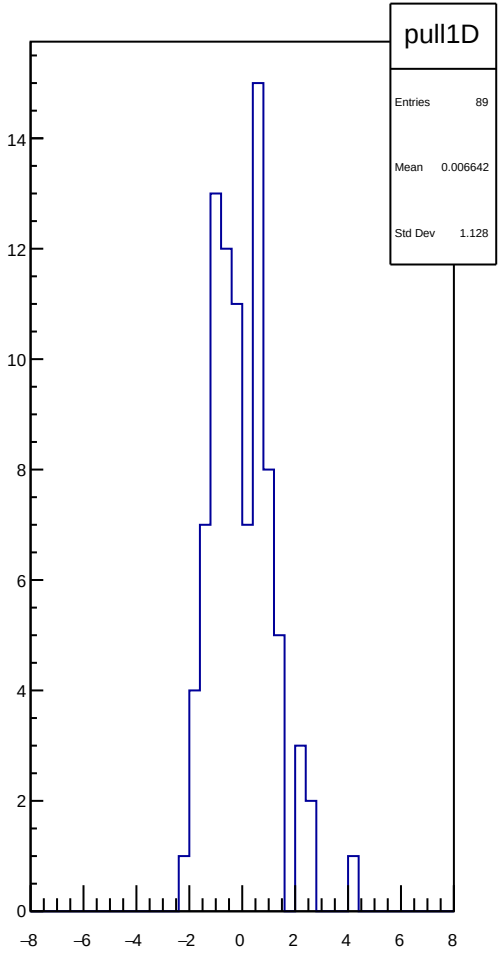

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.482e+04 / 88
p0 1970 ± 1.487
3000
2500
2000
1500
1000

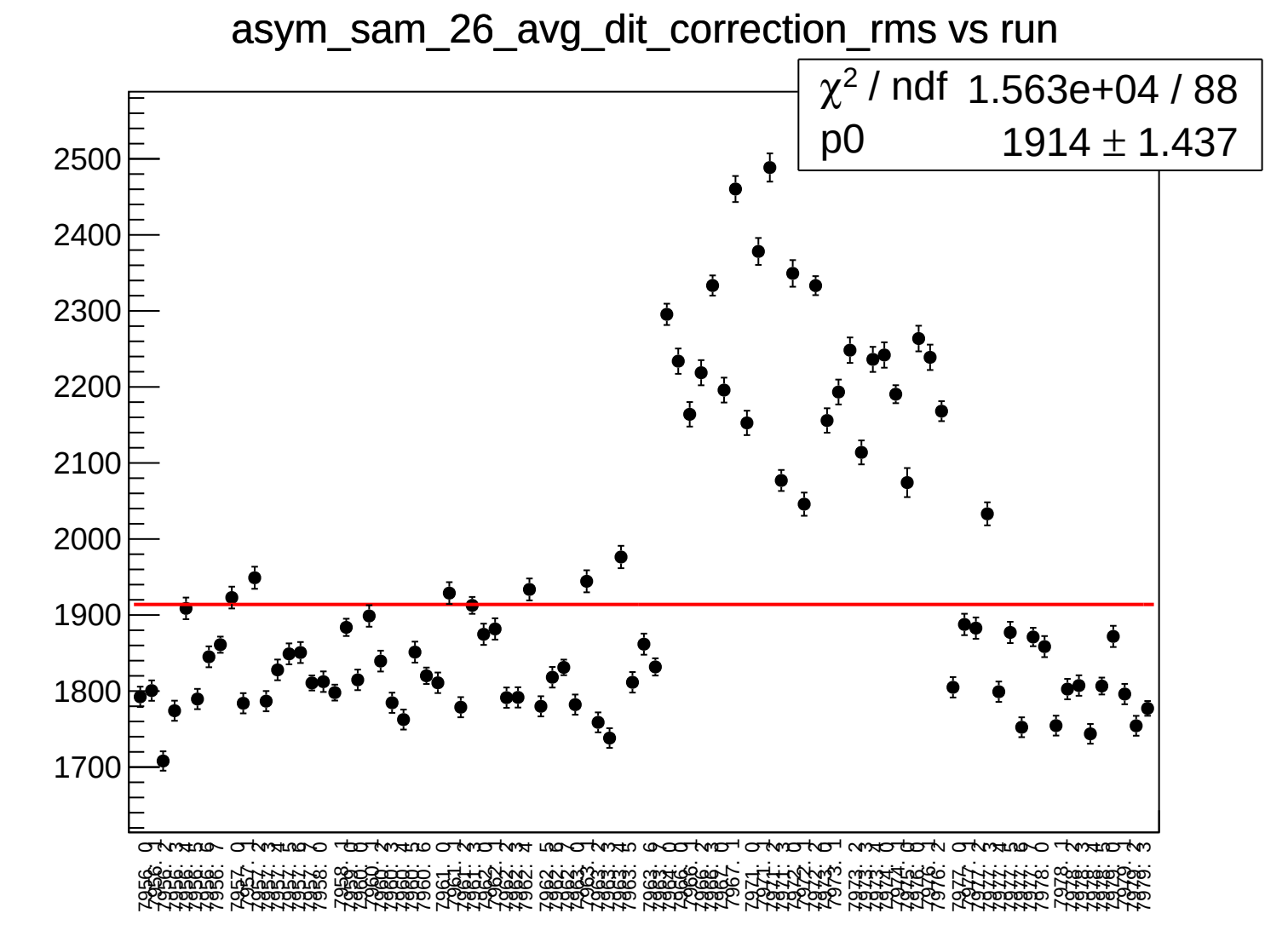

dit_asym_sam_26_avg_mean vs run
χ² / ndf 113.9 / 88
p0 366.3 ± 312.4
pull
Entries 89
Mean 163.5
Std Dev 0

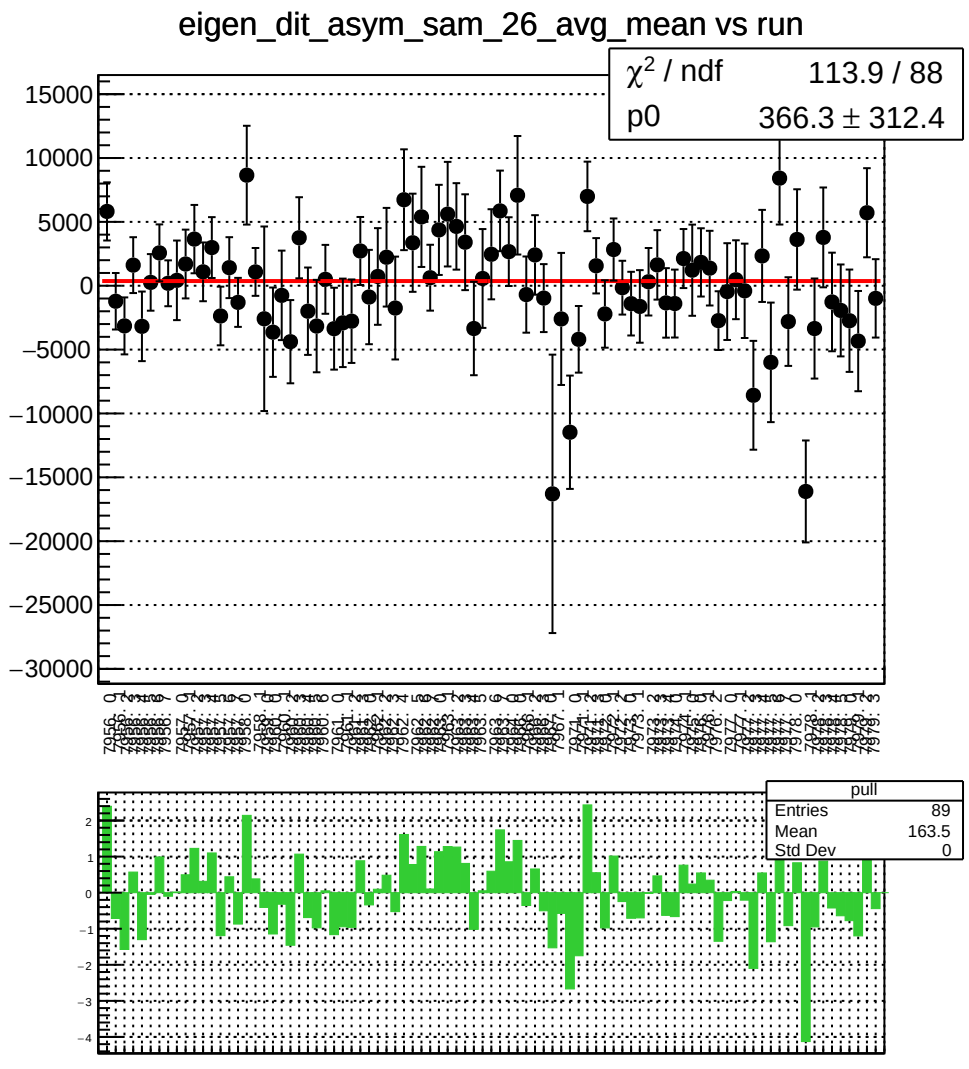

pull1D
Entries 89
Mean −0.03472
Std Dev 1.131

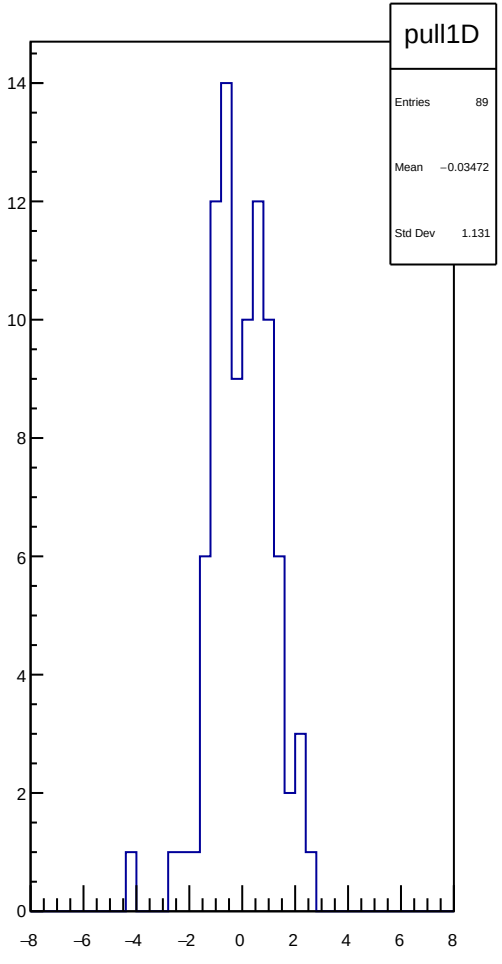

dit_asym_sam_26_avg_rms vs run
$\chi^2$ / ndf 9.788e+04 / 88
p0 287.4 ± 0.2209
1000
800
600
400
200

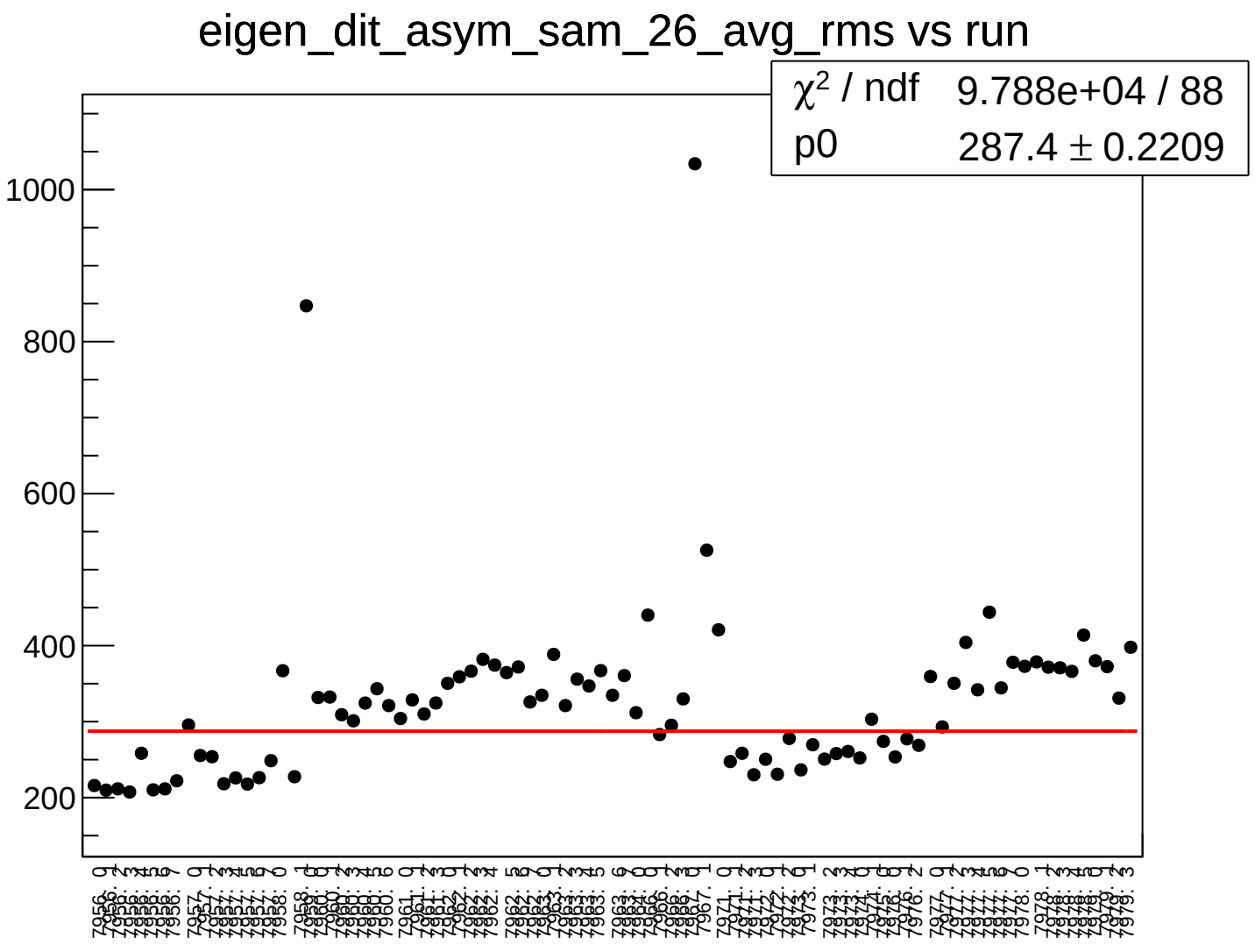

asym_sam_26_avg_dit_correction_mean vs run
×10^3
χ² / ndf 113.3 / 88
p0 993.6 ± 2032
pull
Entries 89
Mean 625.7
Std Dev 0

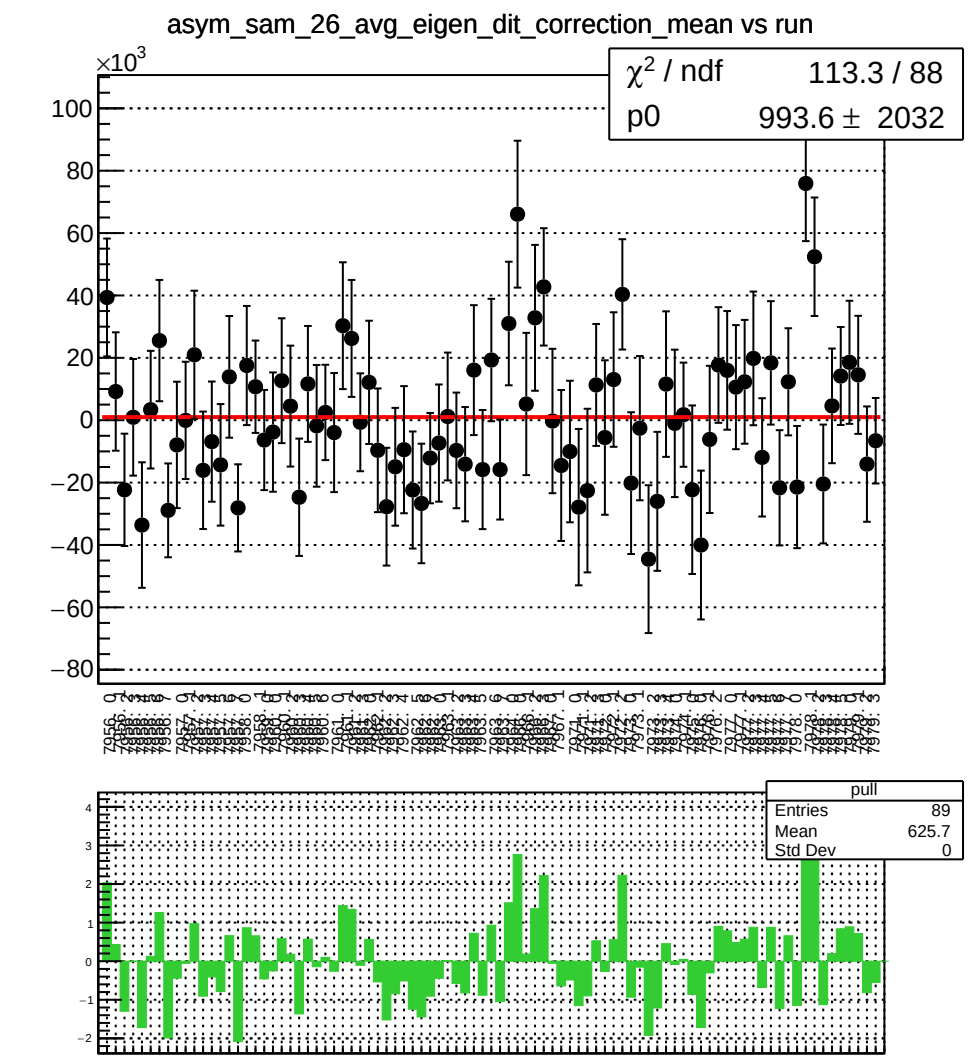

pull1D
Entries 89
Mean 0.006642
Std Dev 1.128

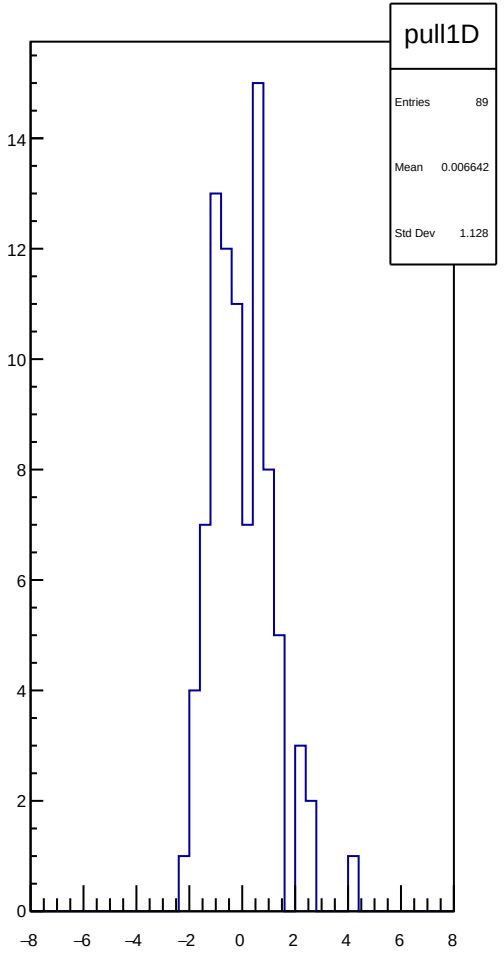

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.563e+04 / 88
p0 1914 ± 1.437
2500
2400
2300
2200
2100
2000
1900
1800
1700

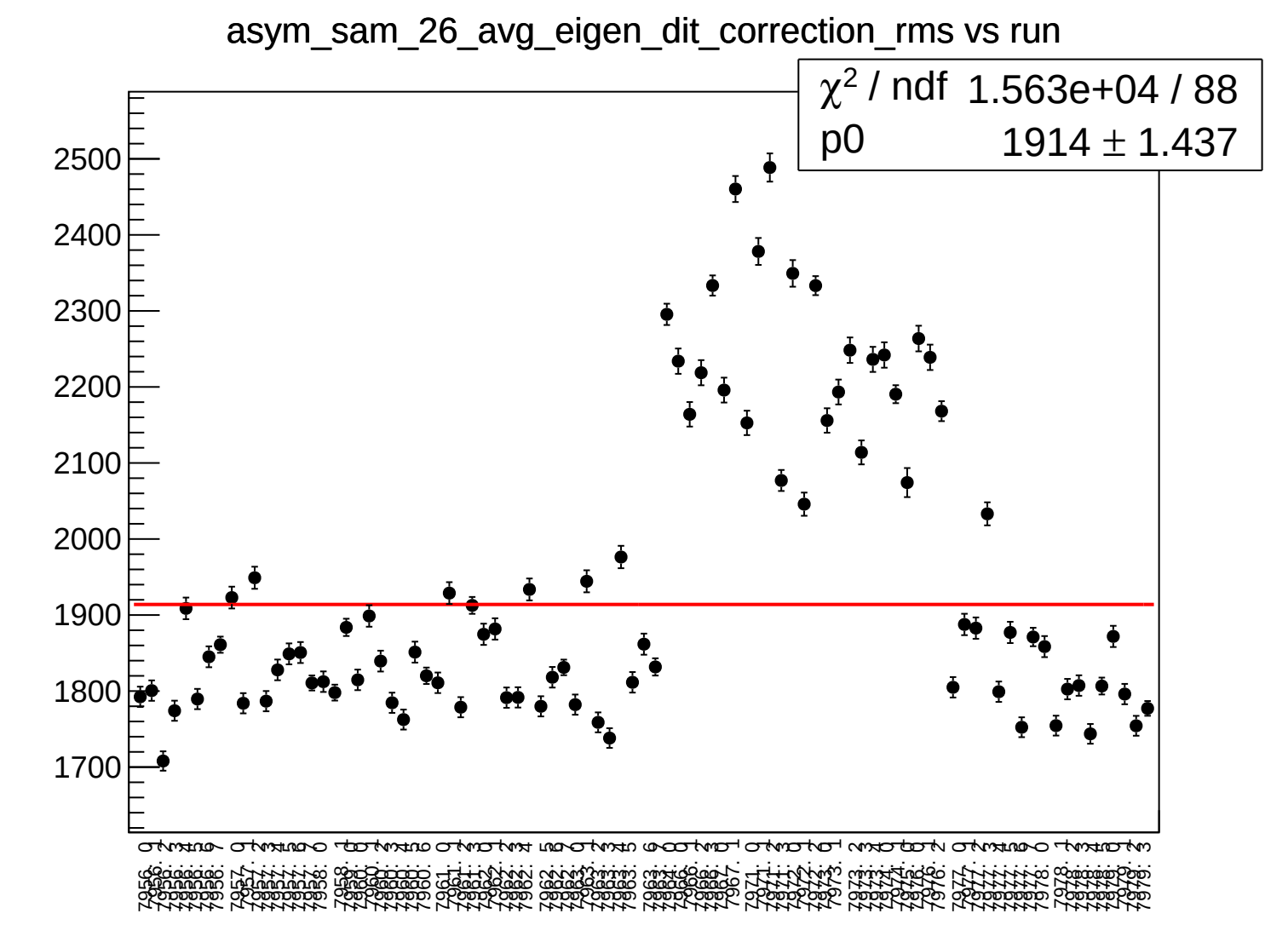

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 113.9 / 88
p0 366.3 ± 312.4
pull
Entries 89
Mean 163.5
Std Dev 0

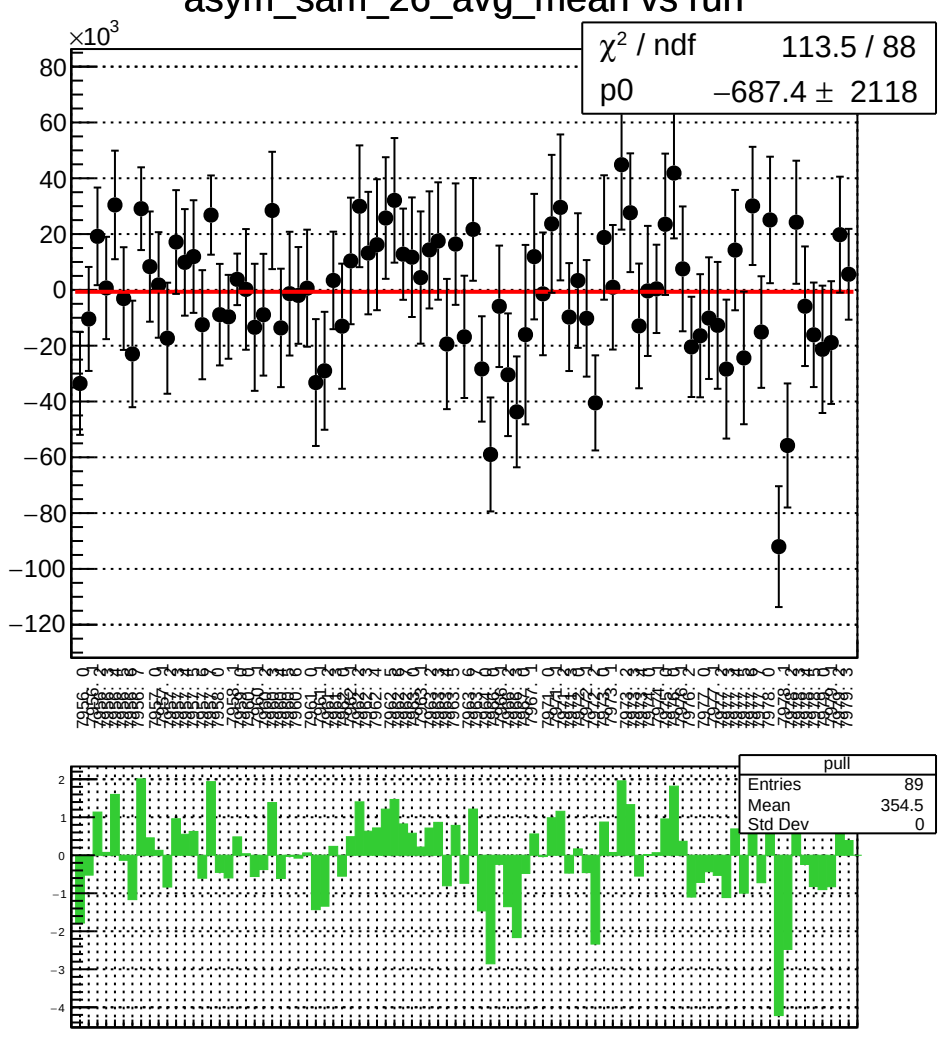

pull1D
Entries 89
Mean −0.03472
Std Dev 1.131

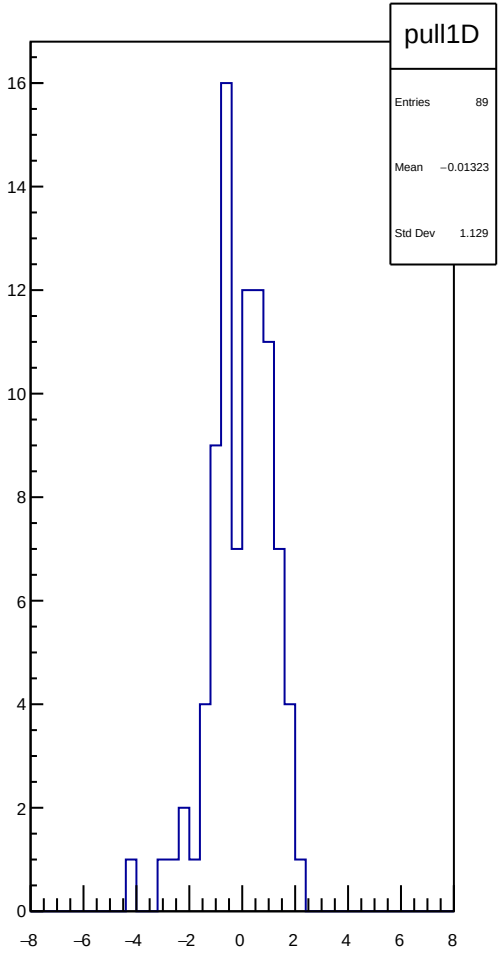

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 9.788e+04 / 88
p0 287.4 ± 0.2209
1000
800
600
400
200

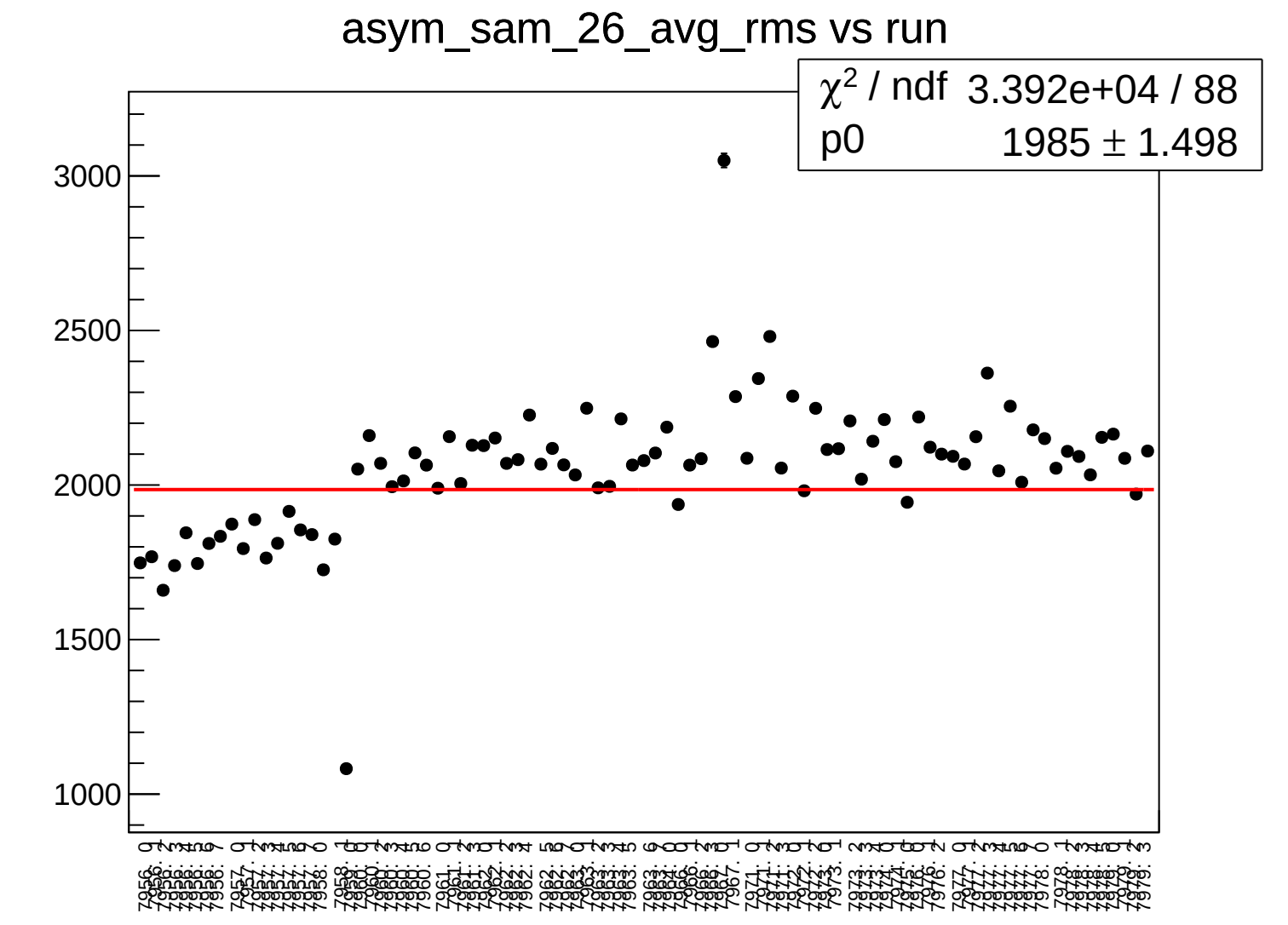

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 113.3 / 88
p0 993.6 ± 2032
pull
Entries 89
Mean 625.7
Std Dev 0

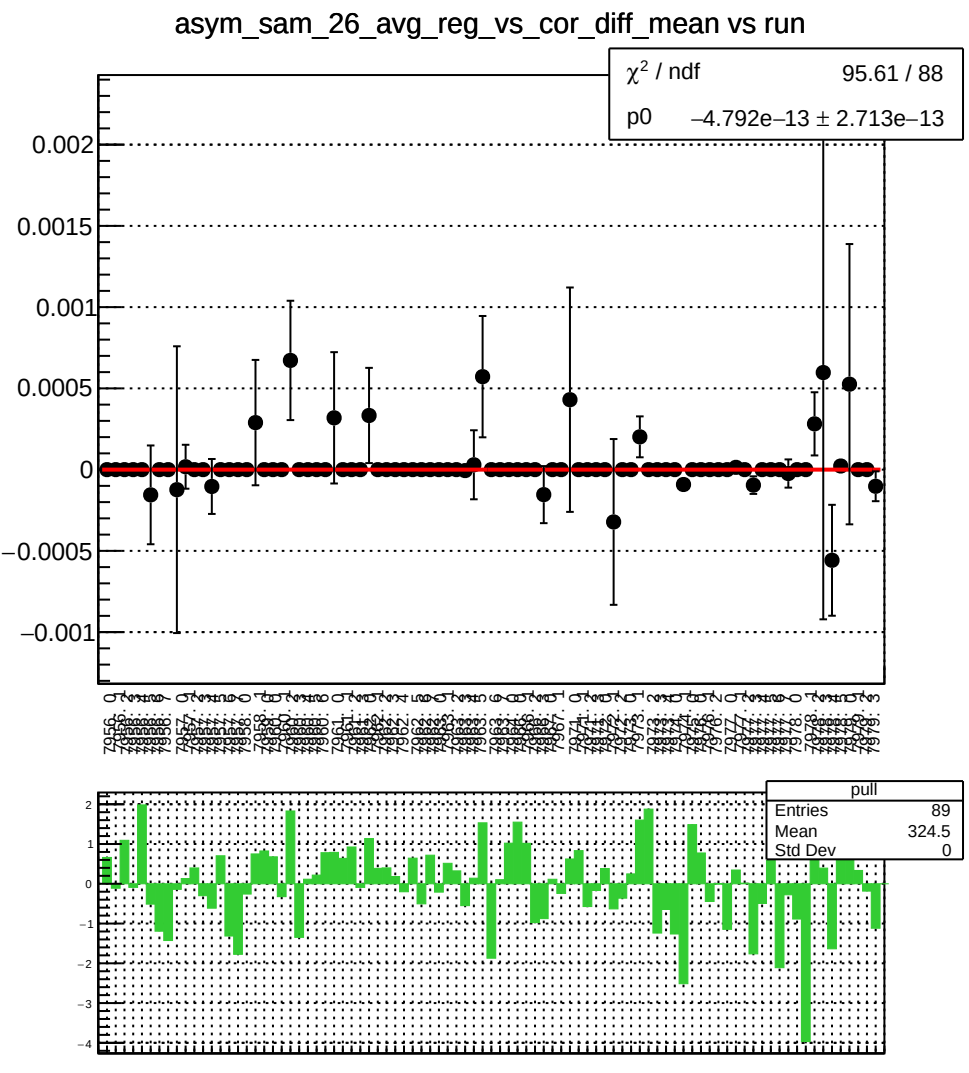

pull1D
Entries 89
Mean 0.006642
Std Dev 1.128

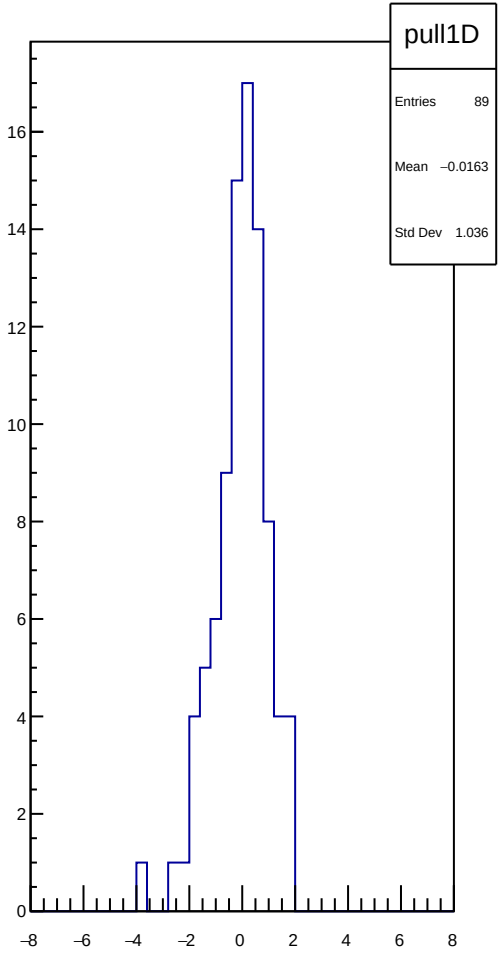

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.563e+04 / 88
p0 1914 ± 1.437
2500
2400
2300
2200
2100
2000
1900
1800
1700

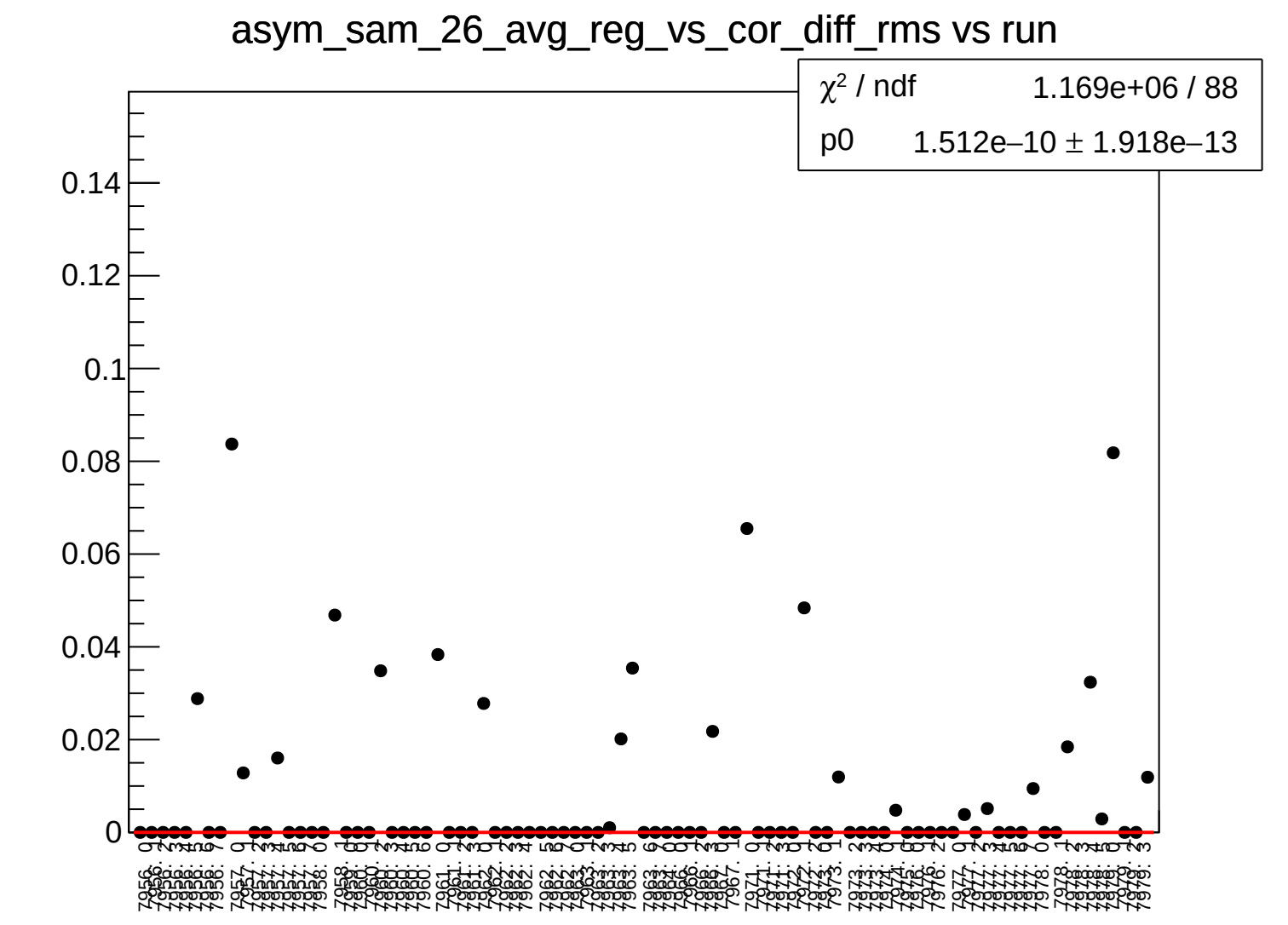

asym_sam_26_avg_mean vs run
χ² / ndf 113.5 / 88
p0 −687.4 ± 2118
×10³
pull
Entries 89
Mean 354.5
Std Dev 0

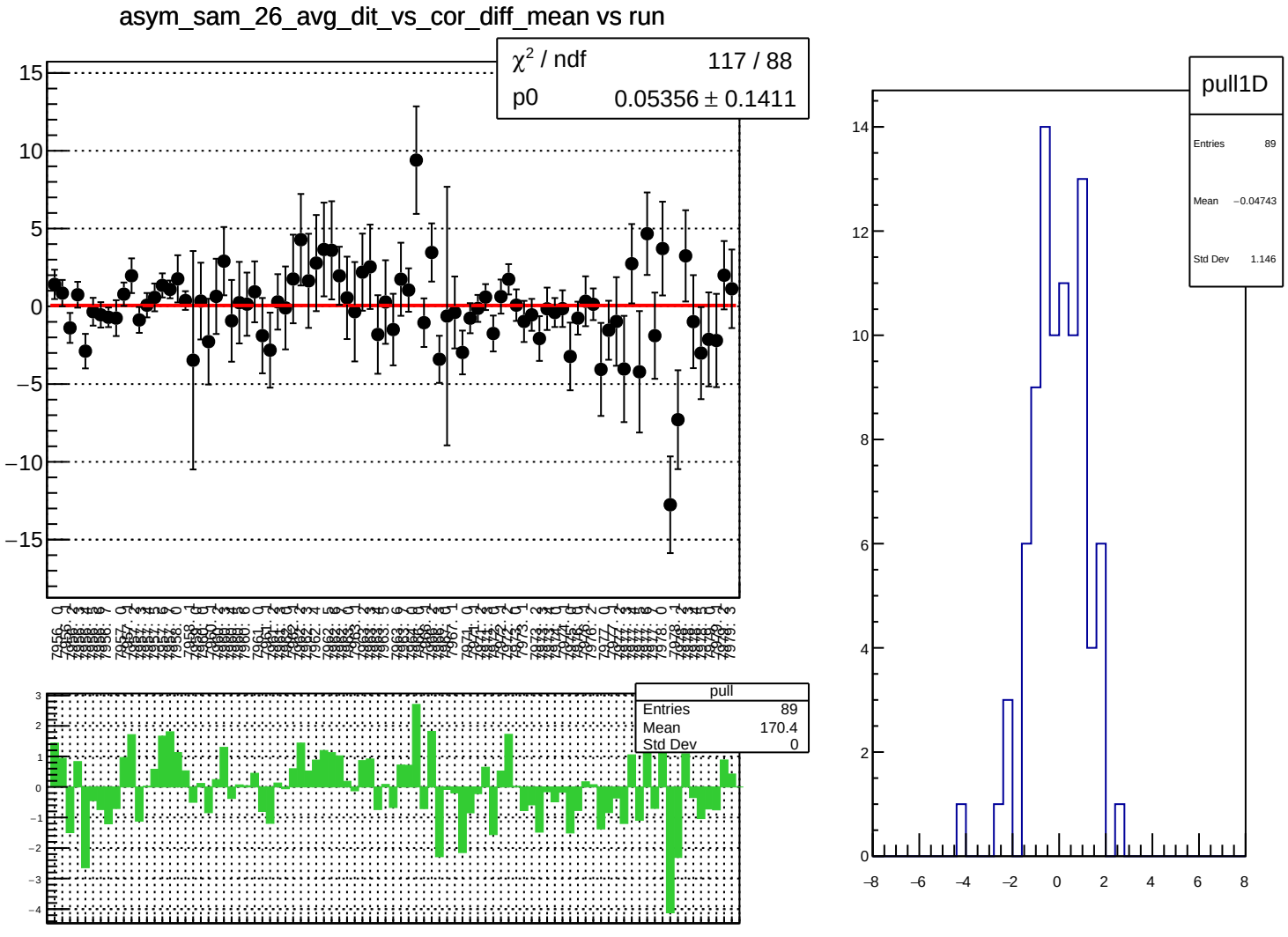

pull1D
Entries 89
Mean −0.01323
Std Dev 1.129

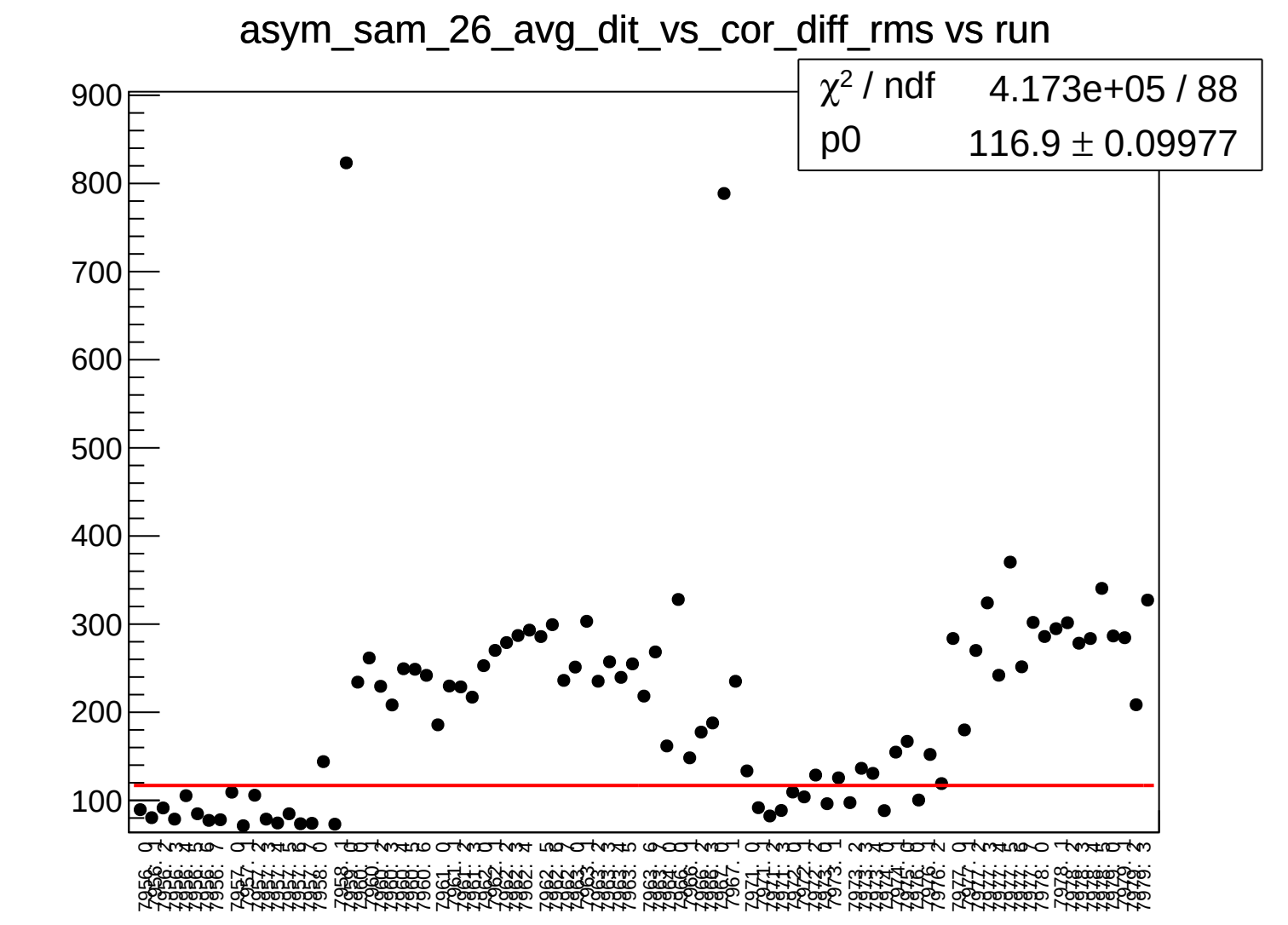

asym_sam_26_avg_rms vs run
χ² / ndf 3.392e+04 / 88
p0 1985 ± 1.498
3000
2500
2000
1500
1000

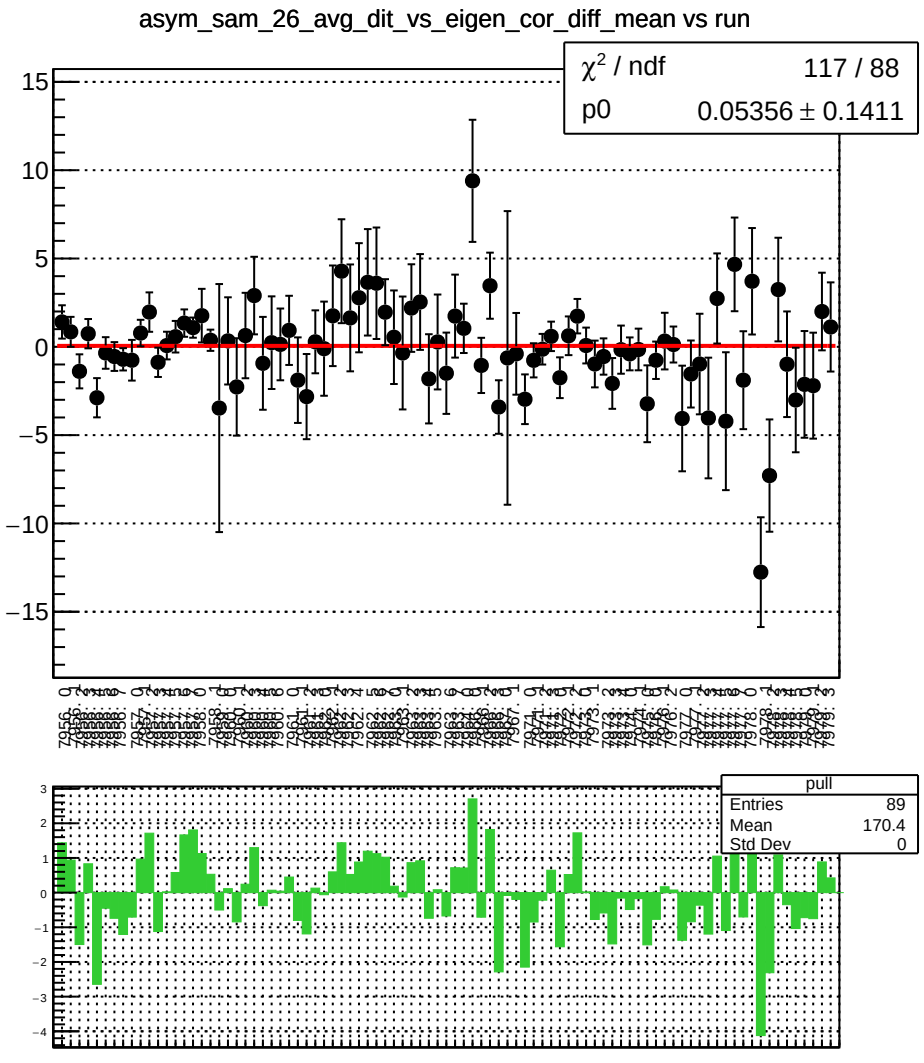

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.61 / 88
p0 −4.792e−13 ± 2.713e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 324.5
Std Dev 0
2
1
0
−1
−2
−3
−4

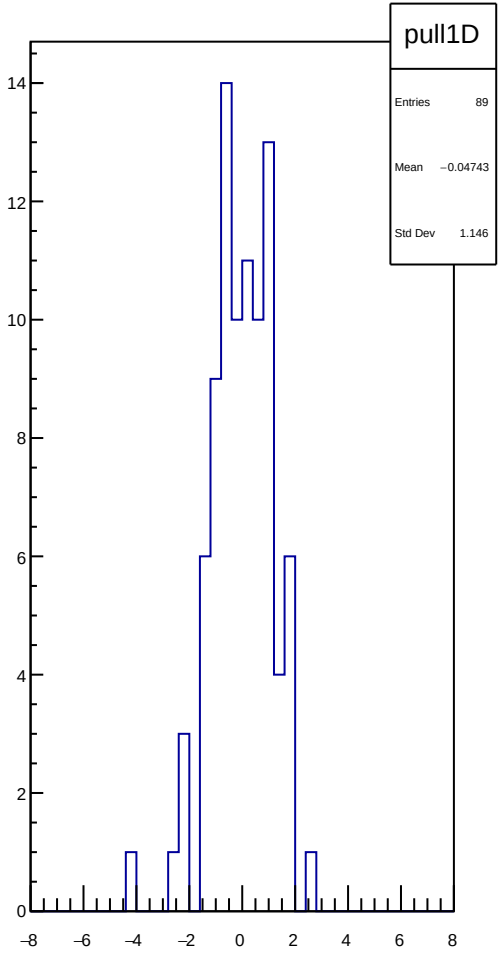

pull1D
Entries 89
Mean −0.0163
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

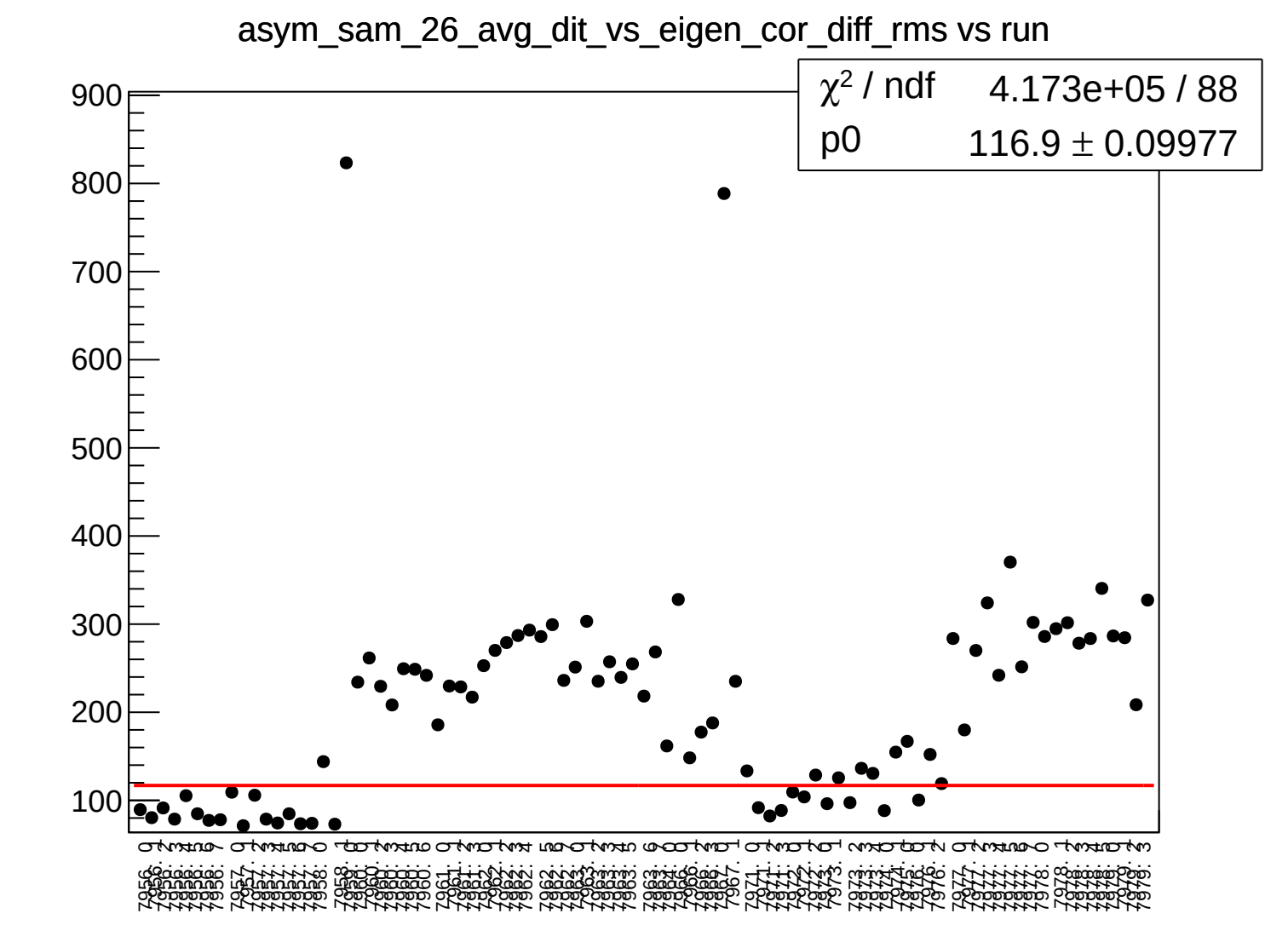

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.169e+06 / 88
p0 1.512e−10 ± 1.918e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

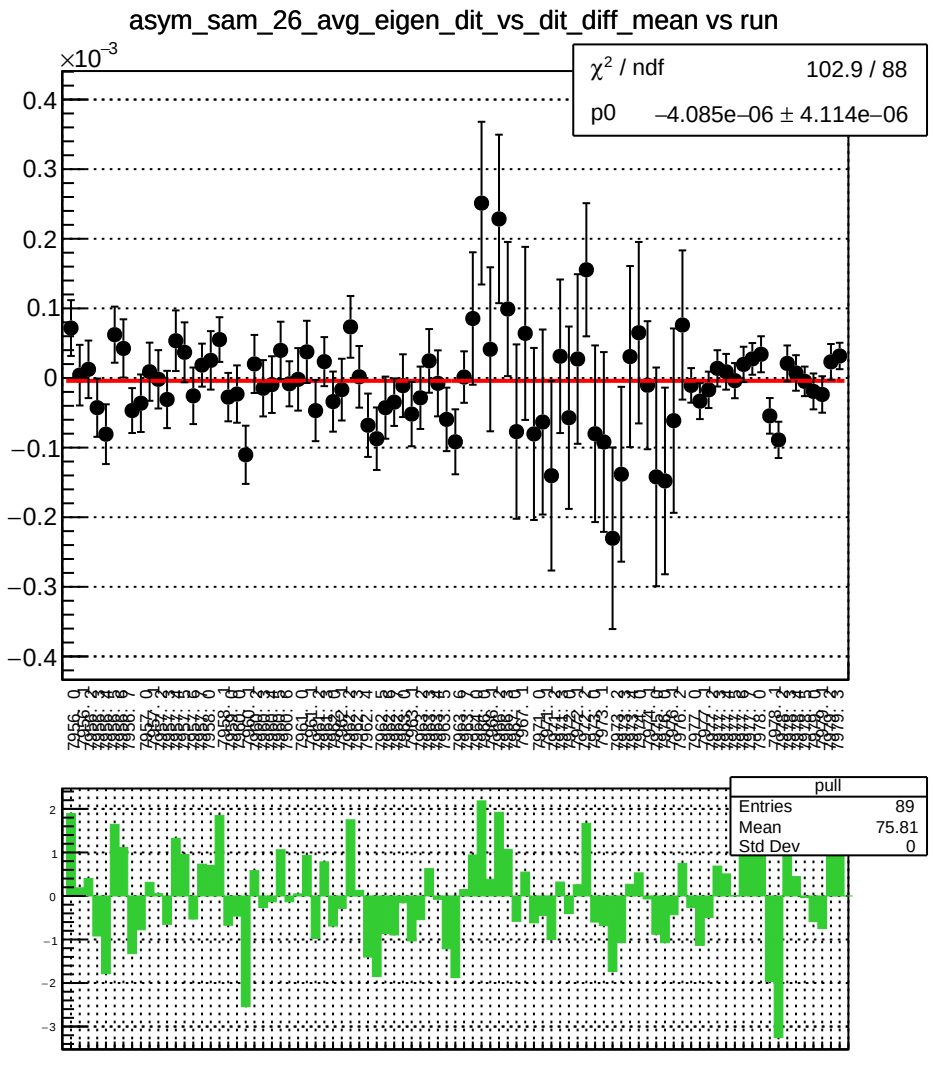

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 117 / 88
p0 0.05356 ± 0.1411
pull
Entries 89
Mean 170.4
Std Dev 0
pull1D
Entries 89
Mean −0.04743
Std Dev 1.146

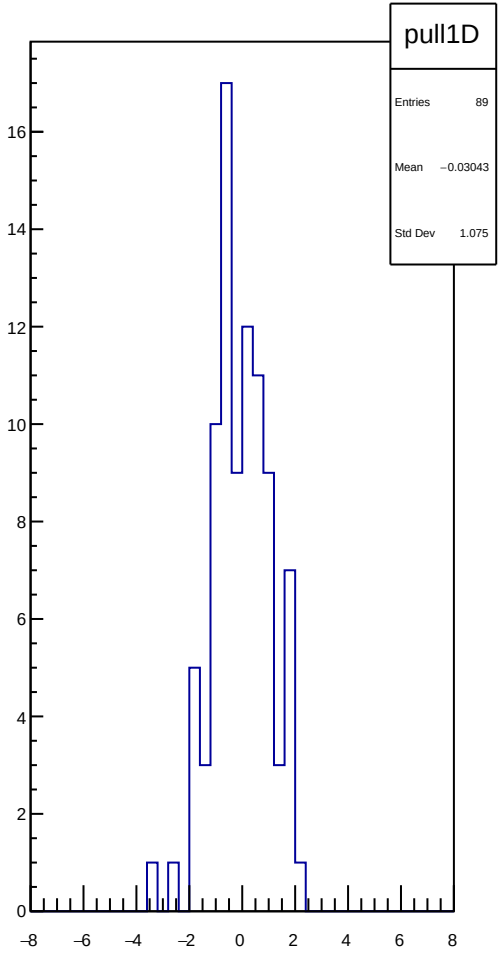

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.173e+05 / 88
p0 116.9 ± 0.09977
900
800
700
600
500
400
300
200
100

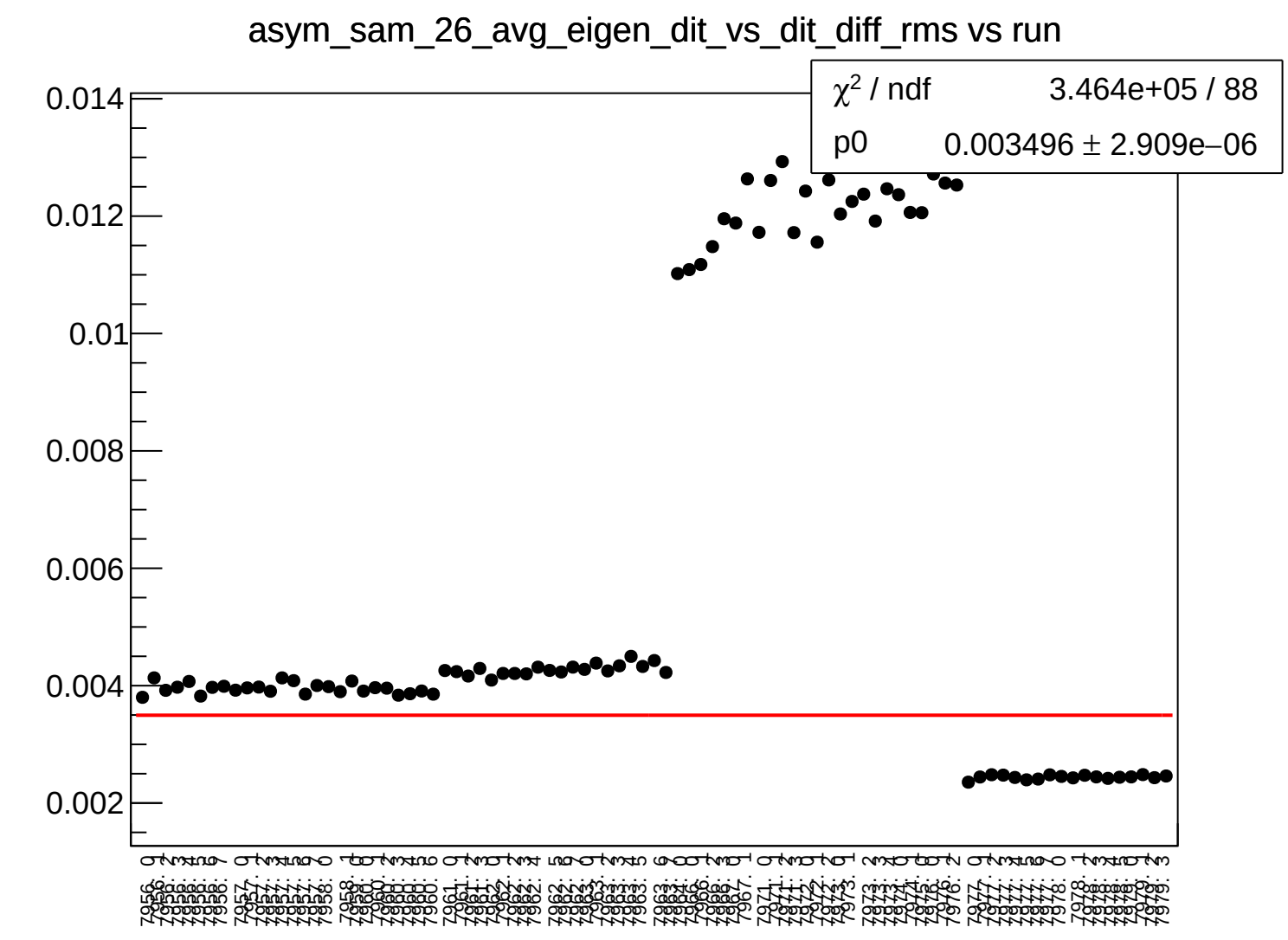

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117 / 88
p0 0.05356 ± 0.1411
pull
Entries 89
Mean 170.4
Std Dev 0

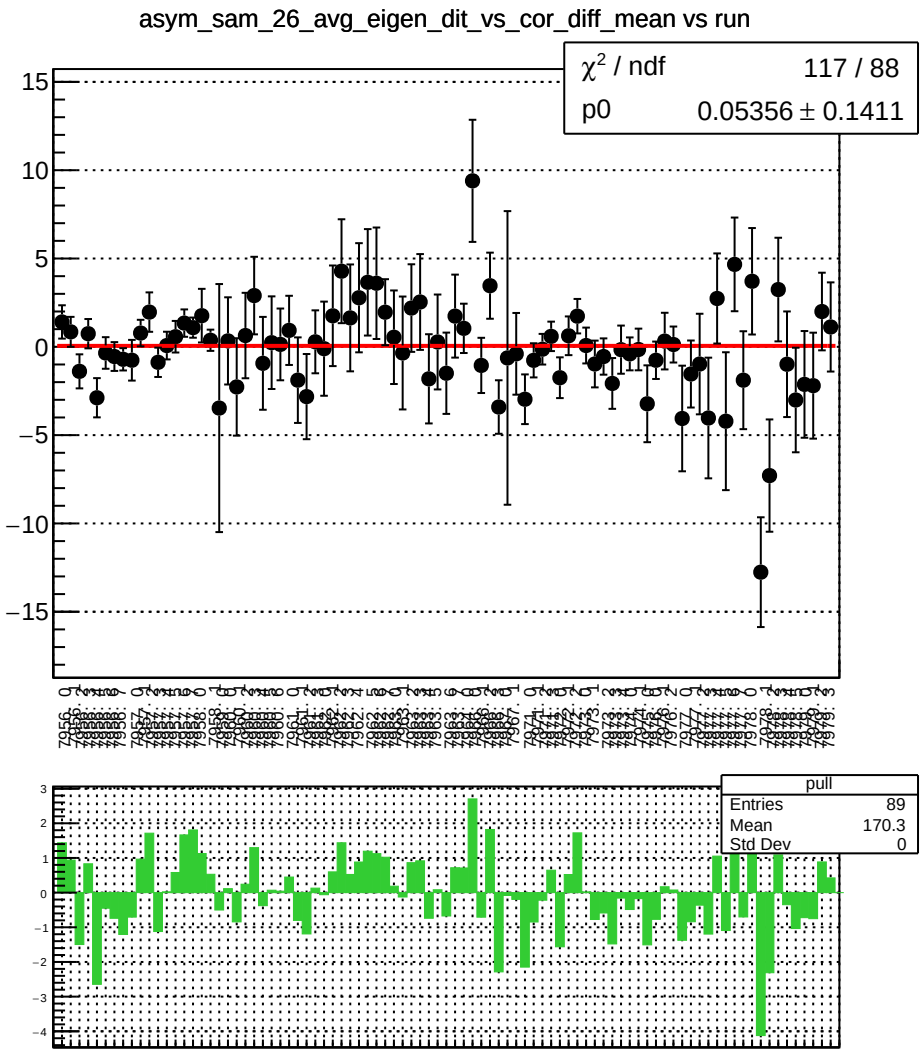

pull1D
Entries 89
Mean −0.04743
Std Dev 1.146

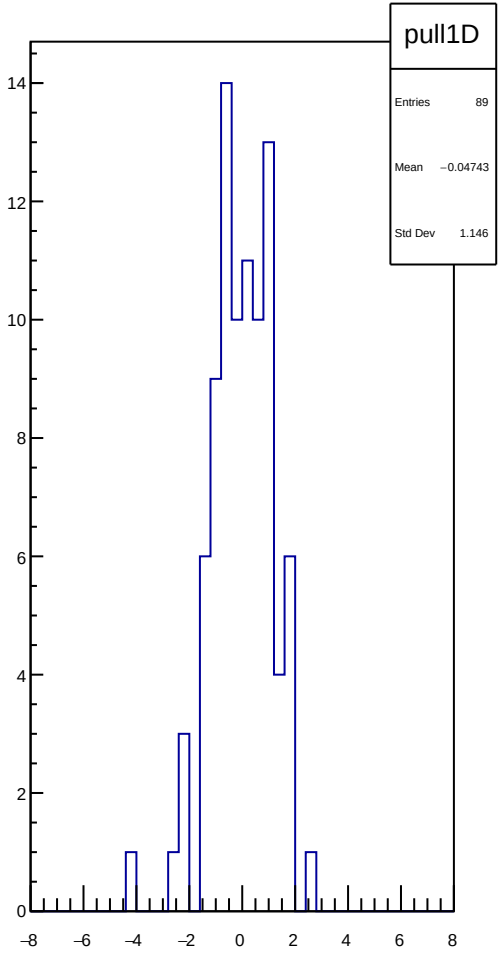

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 4.173e+05 / 88
p0 116.9 ± 0.09977
900
800
700
600
500
400
300
200
100

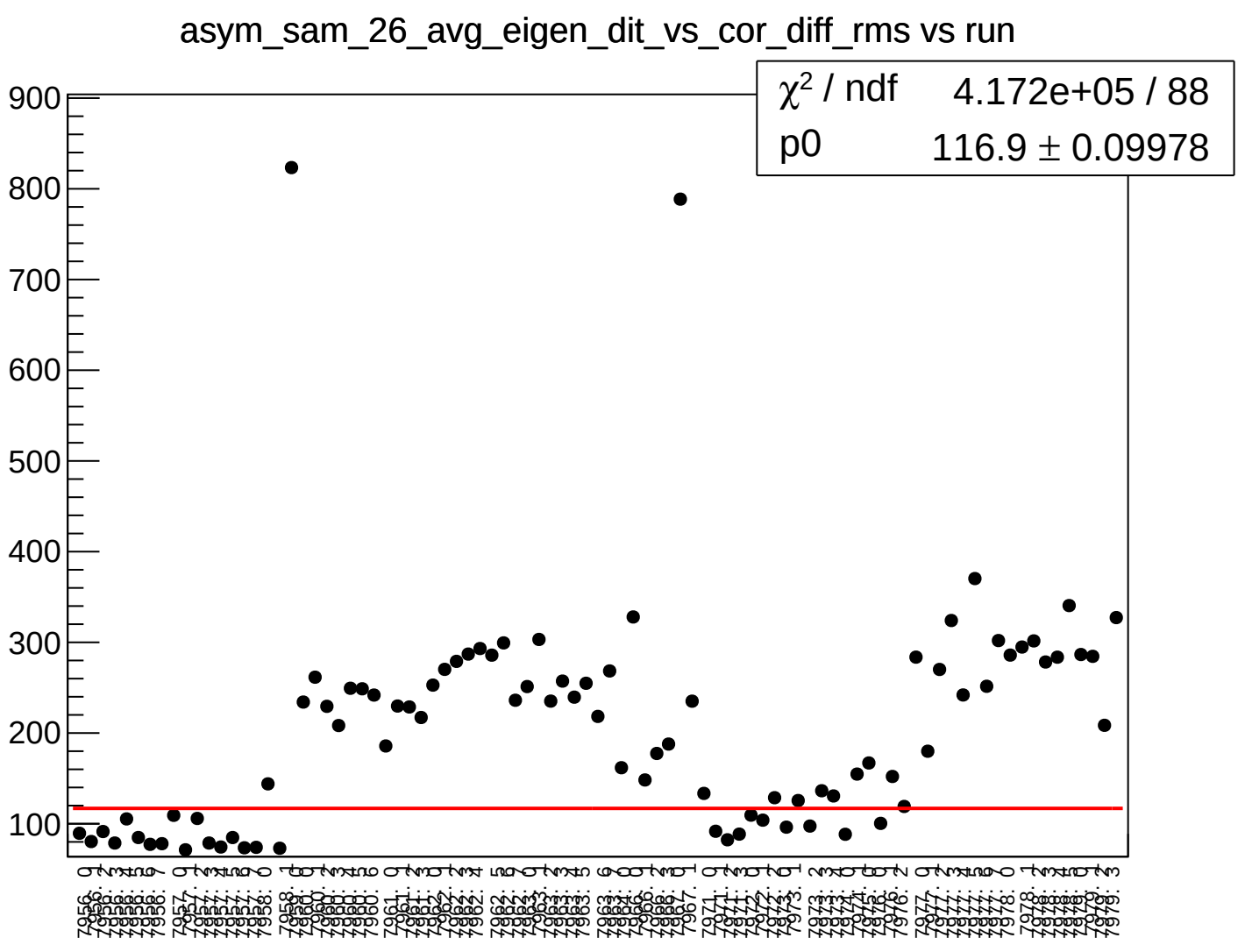

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.9 / 88
p0 −4.085e−06 ± 4.114e−06
pull
Entries 89
Mean 75.81
Std Dev 0

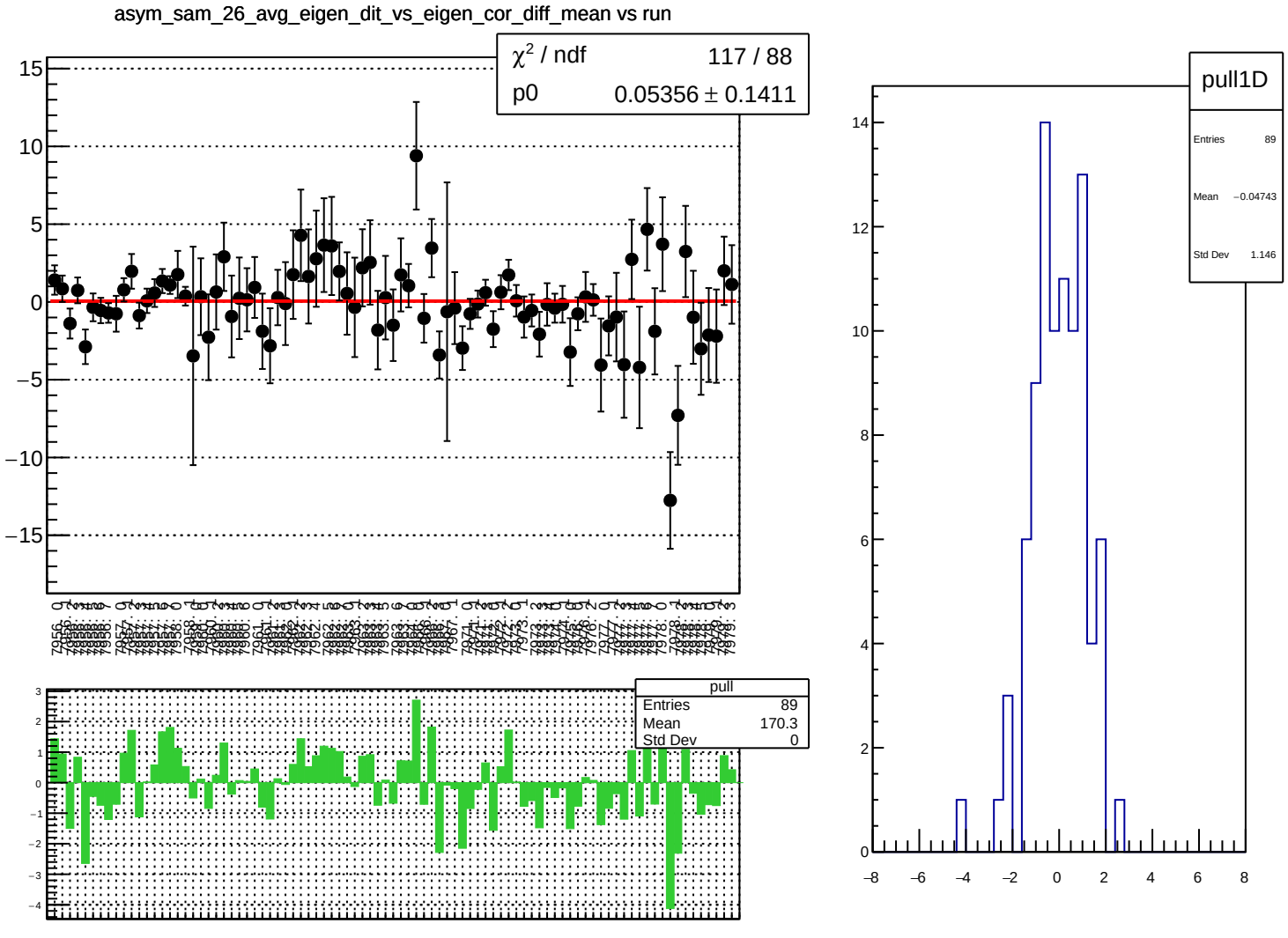

pull1D
Entries 89
Mean −0.03043
Std Dev 1.075

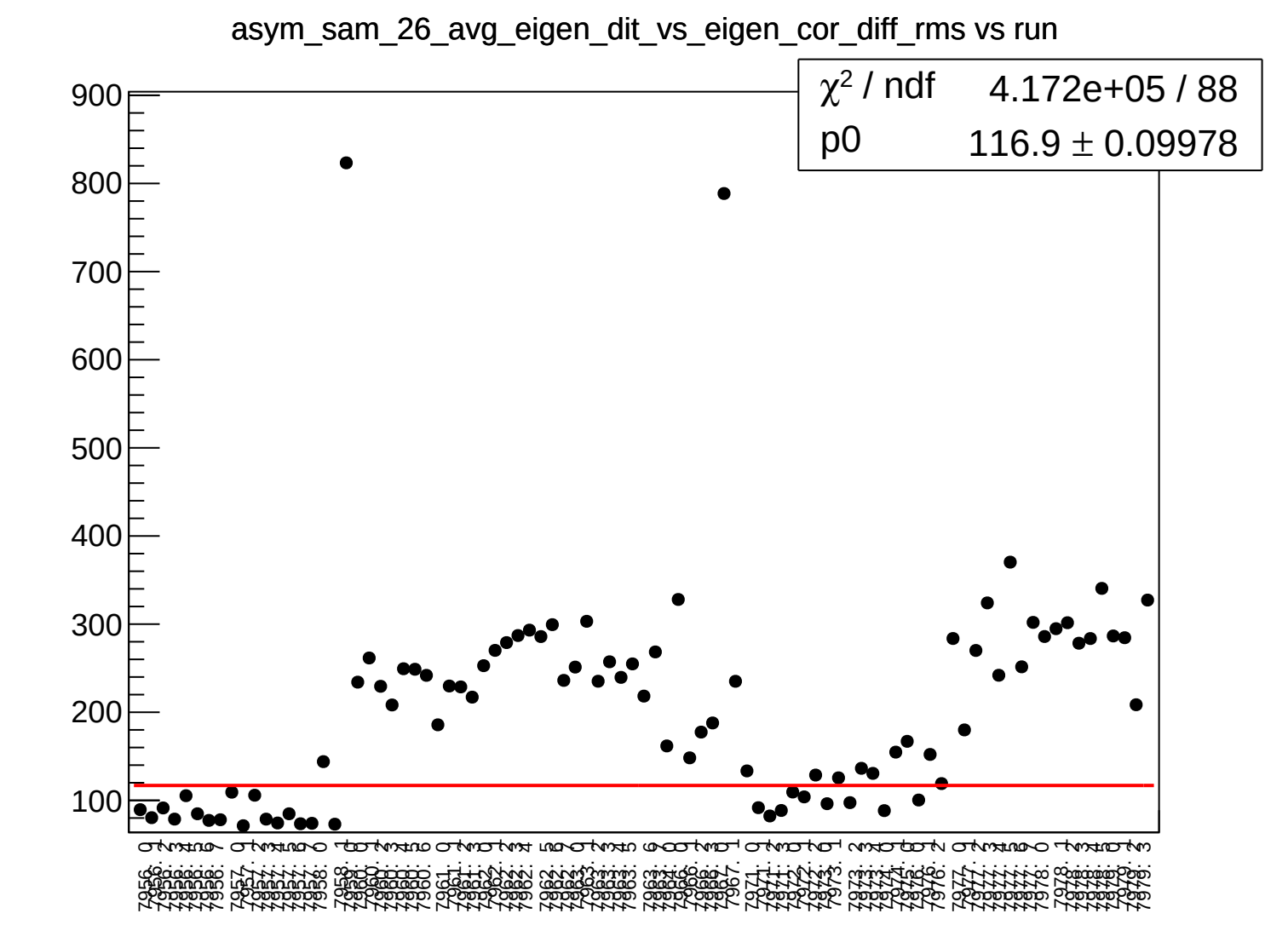

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.464e+05 / 88
p0 0.003496 ± 2.909e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

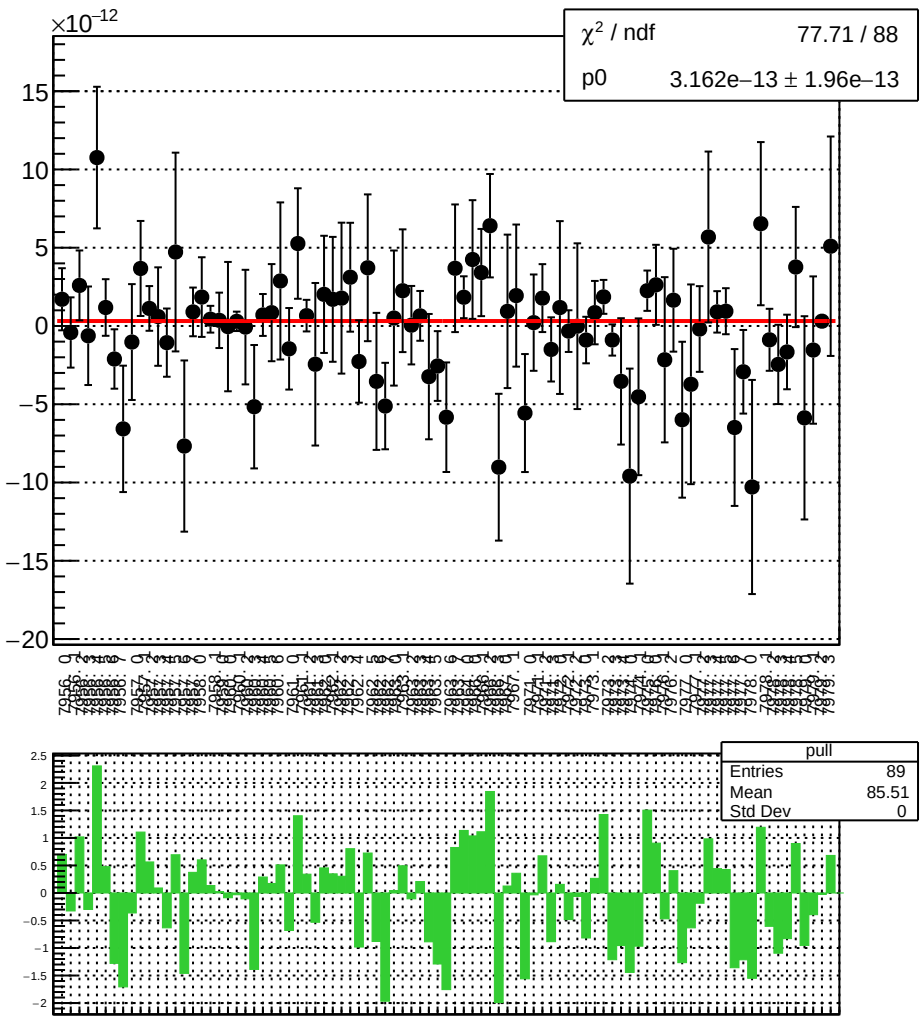

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117 / 88
p0 0.05356 ± 0.1411
pull
Entries 89
Mean 170.3
Std Dev 0

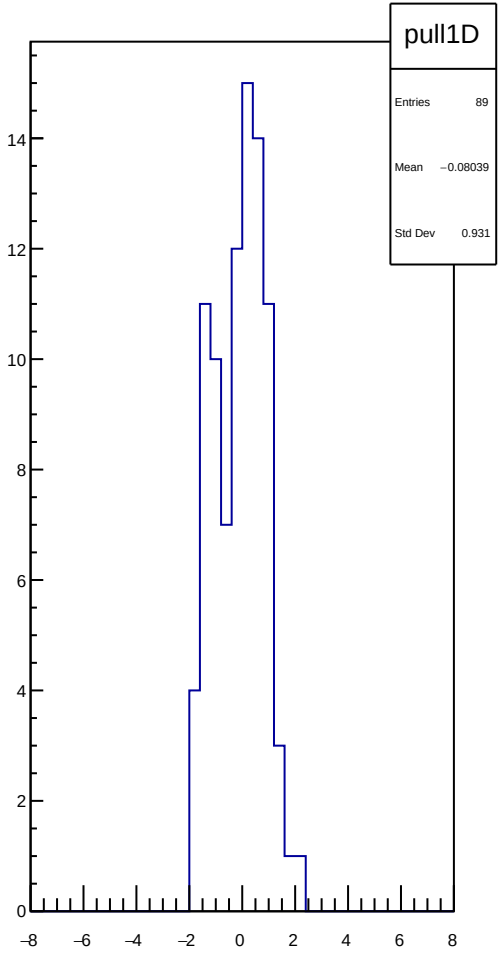

pull1D
Entries 89
Mean −0.04743
Std Dev 1.146

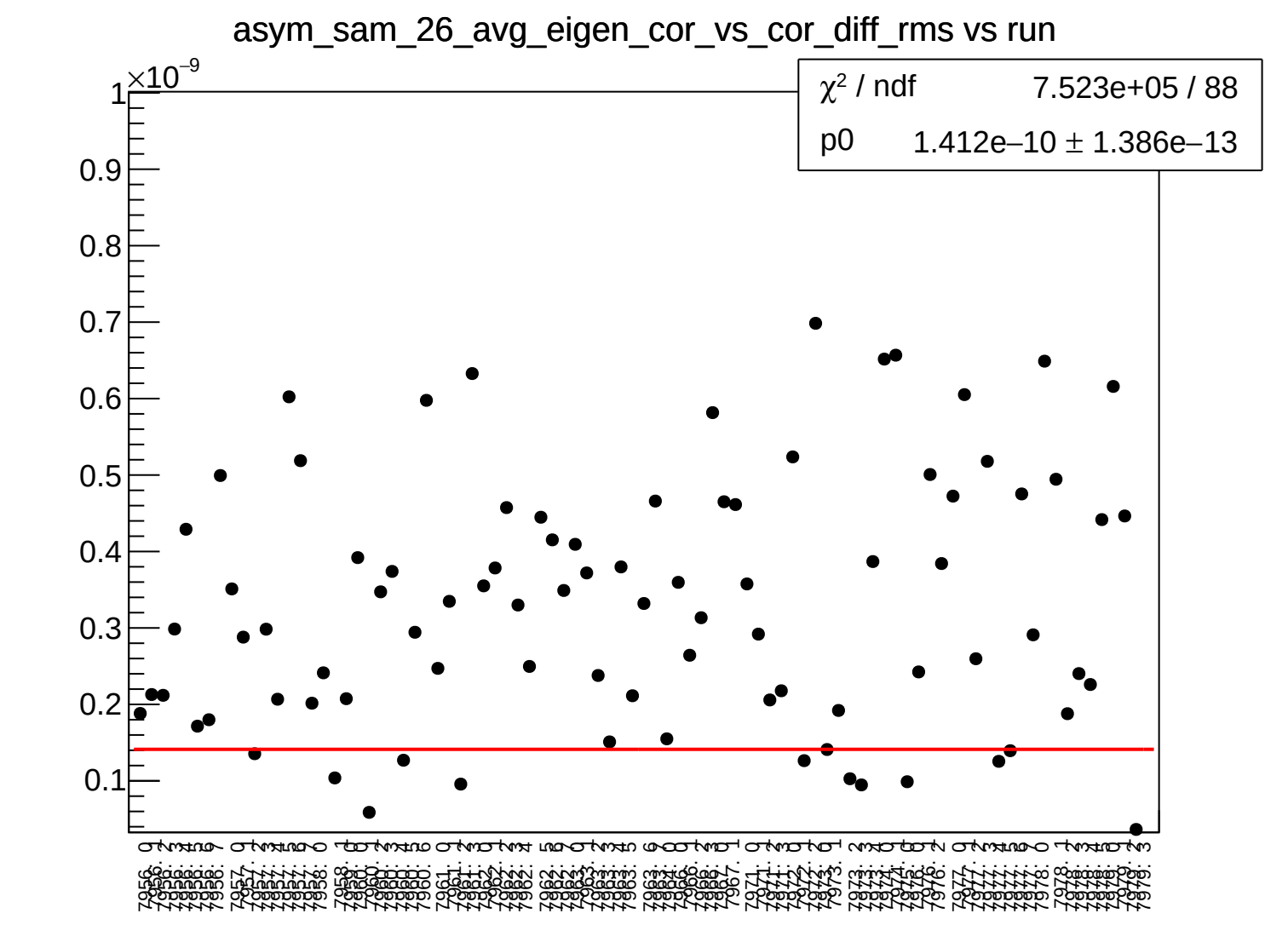

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.172e+05 / 88
p0 116.9 ± 0.09978
900
800
700
600
500
400
300
200
100

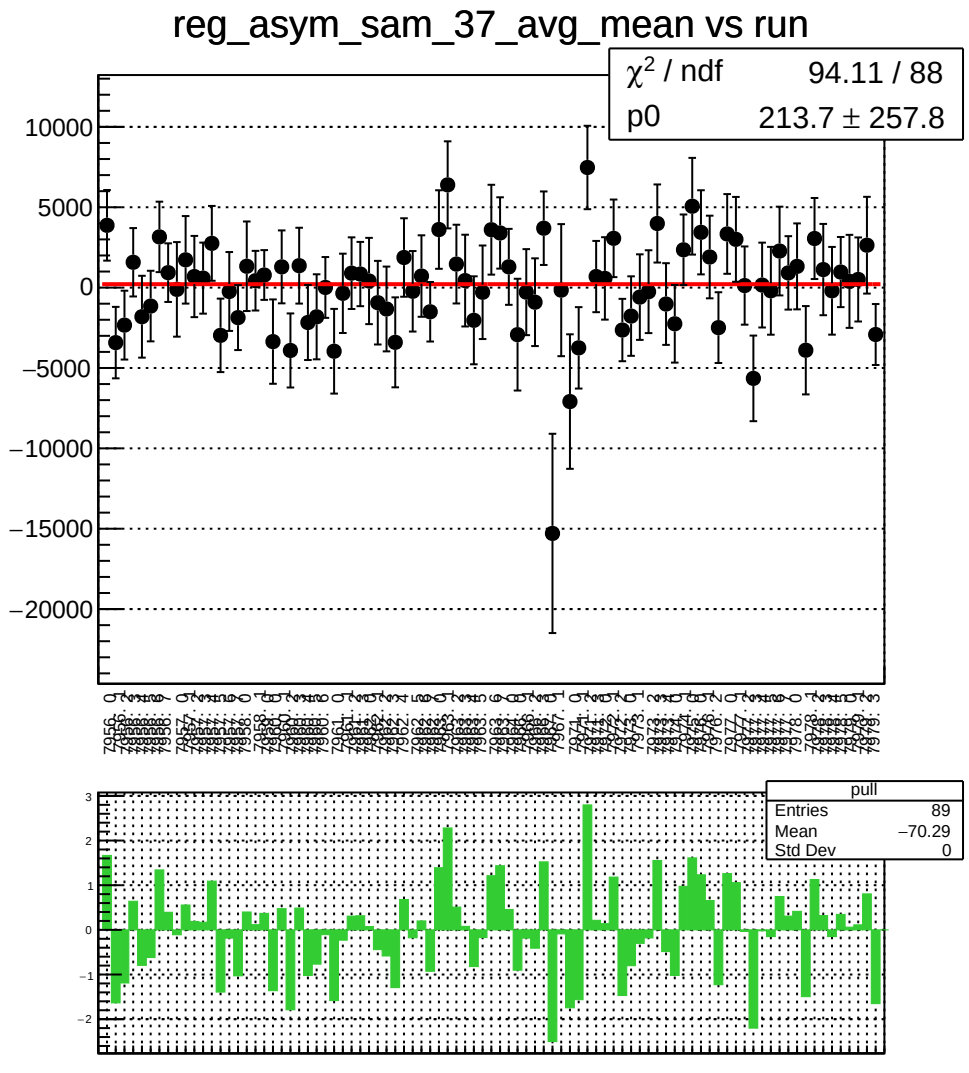

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117 / 88
p0 0.05356 ± 0.1411
pull
Entries 89
Mean 170.3
Std Dev 0
pull1D
Entries 89
Mean −0.04743
Std Dev 1.146

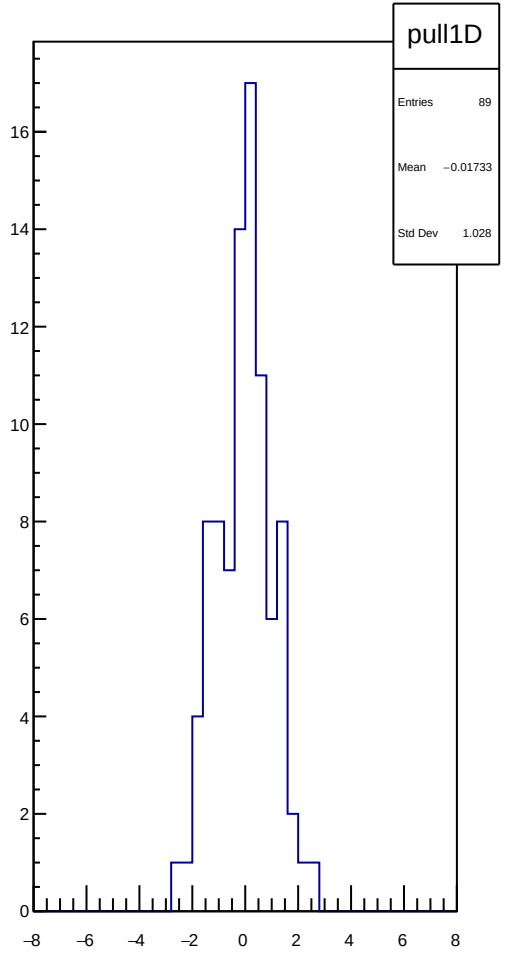

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 4.172e+05 / 88
p0 116.9 ± 0.09978
900
800
700
600
500
400
300
200
100

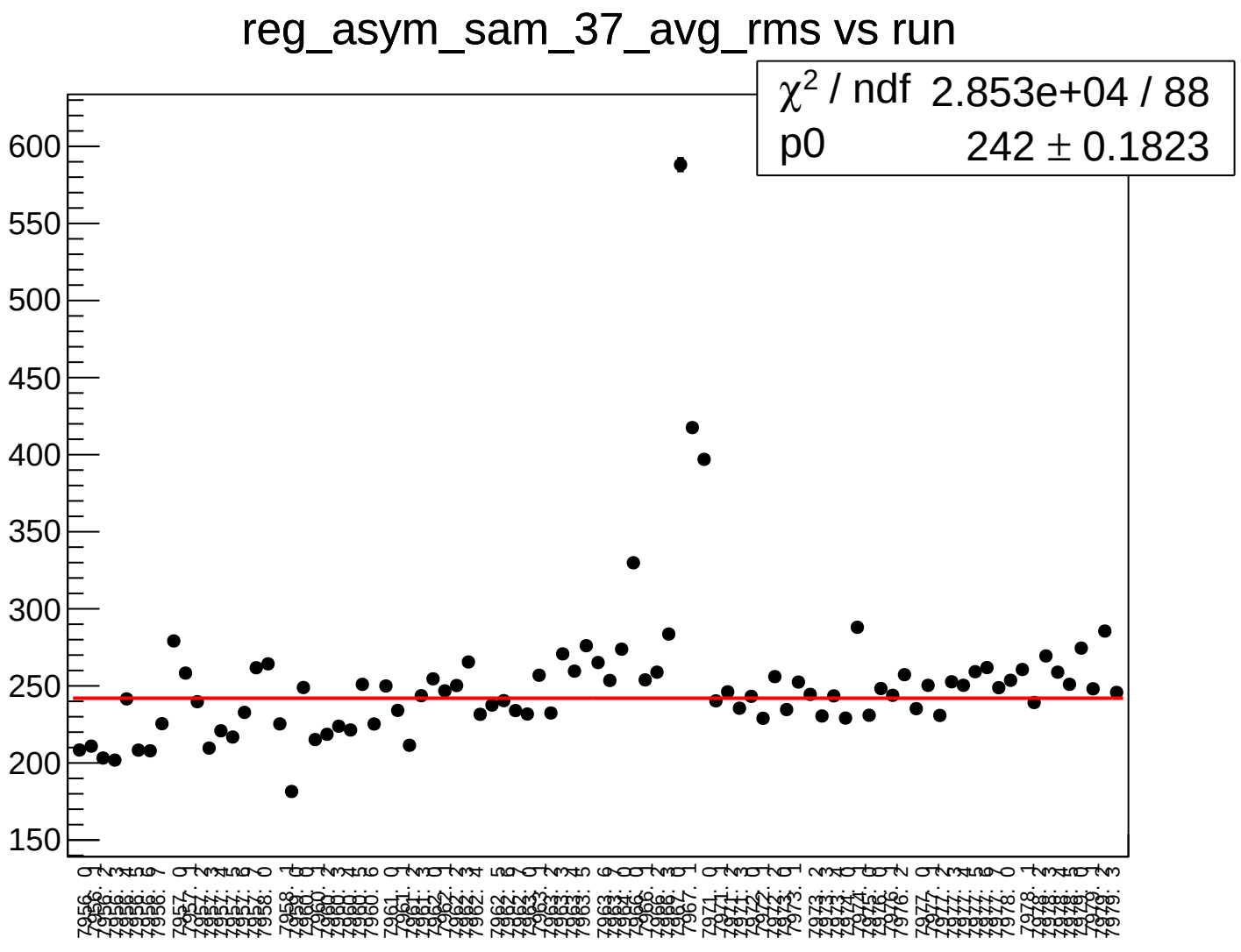

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.71 / 88
p0 3.162e−13 ± 1.96e−13
pull
Entries 89
Mean 85.51
Std Dev 0

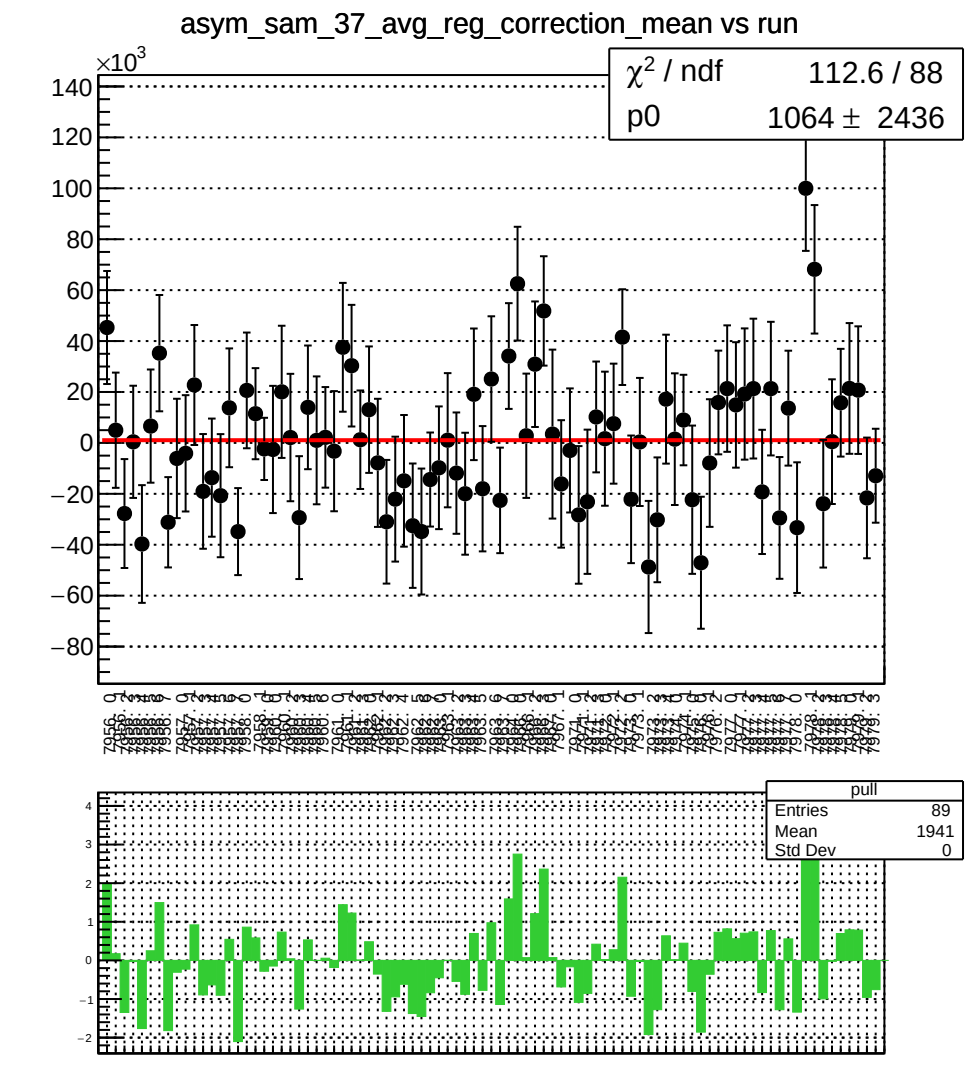

pull1D
Entries 89
Mean −0.08039
Std Dev 0.931

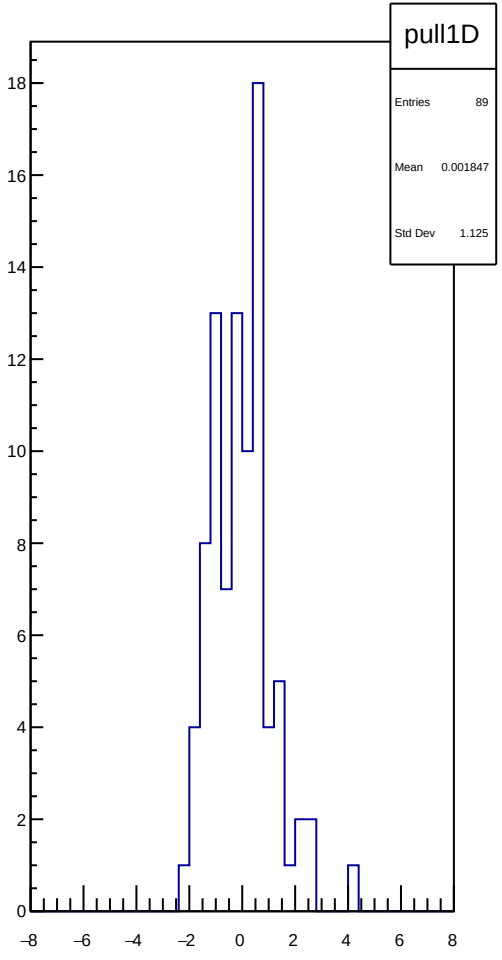

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.523e+05 / 88
p0 1.412e−10 ± 1.386e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

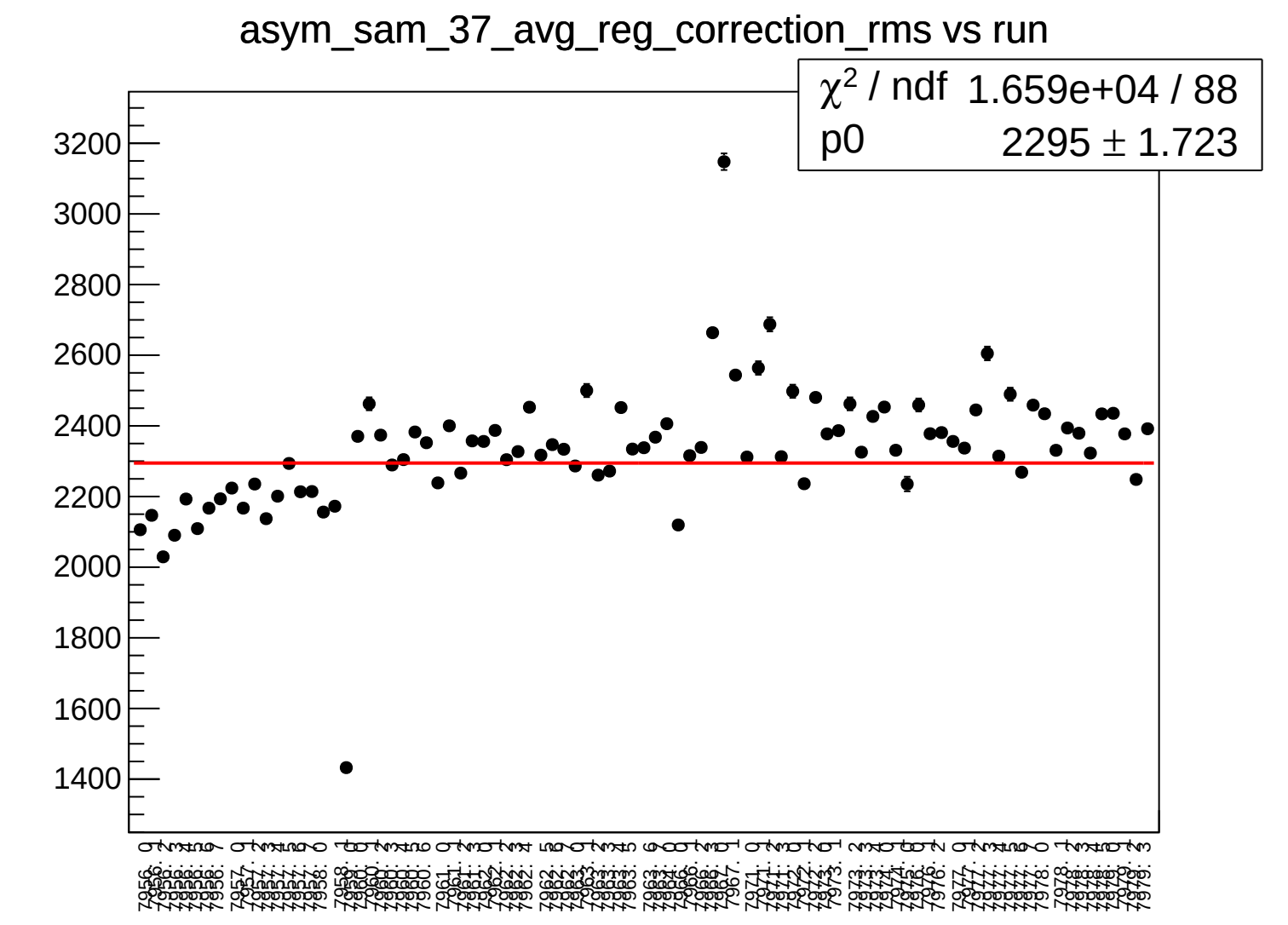

reg_asym_sam_37_avg_mean vs run
χ² / ndf 94.11 / 88
p0 213.7 ± 257.8
pull
Entries 89
Mean −70.29
Std Dev 0

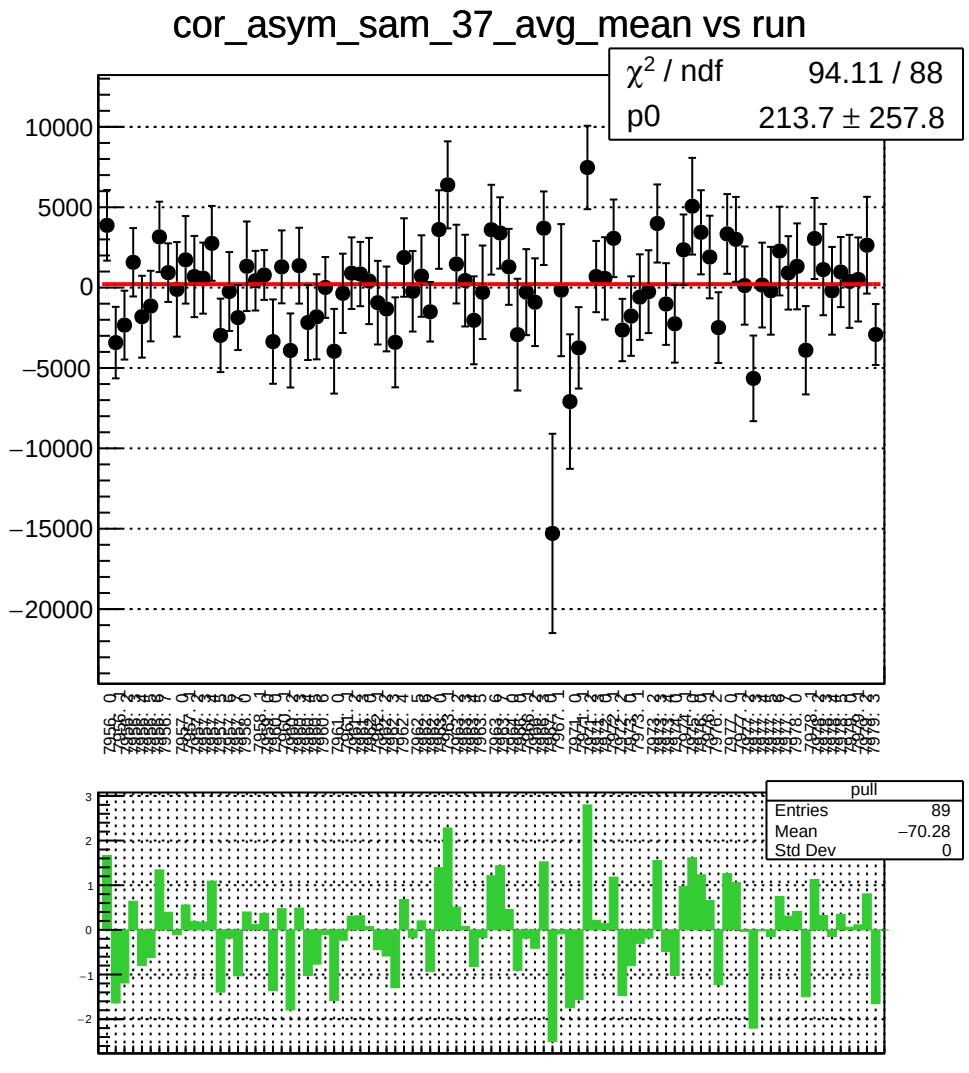

pull1D
Entries 89
Mean −0.01733
Std Dev 1.028

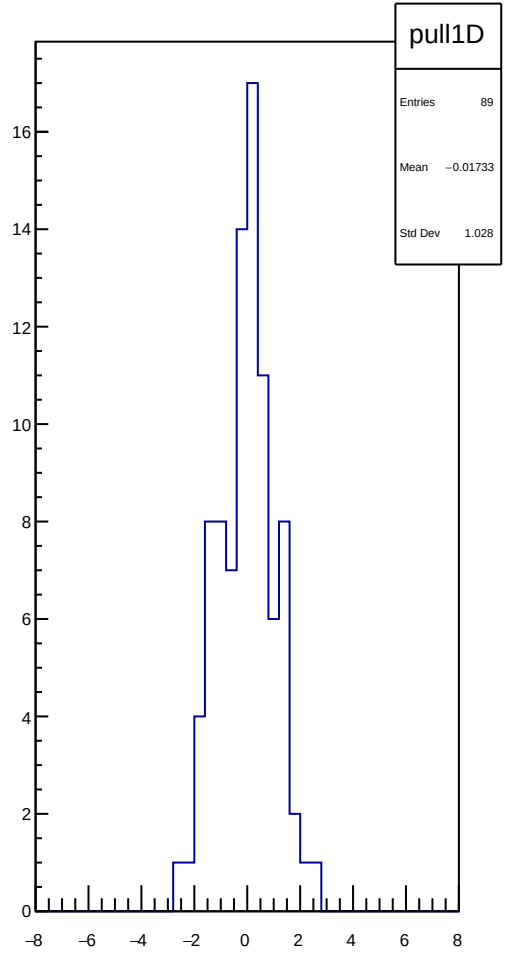

reg_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 2.853e+04 / 88
p0 242 ± 0.1823
600
550
500
450
400
350
300
250
200
150

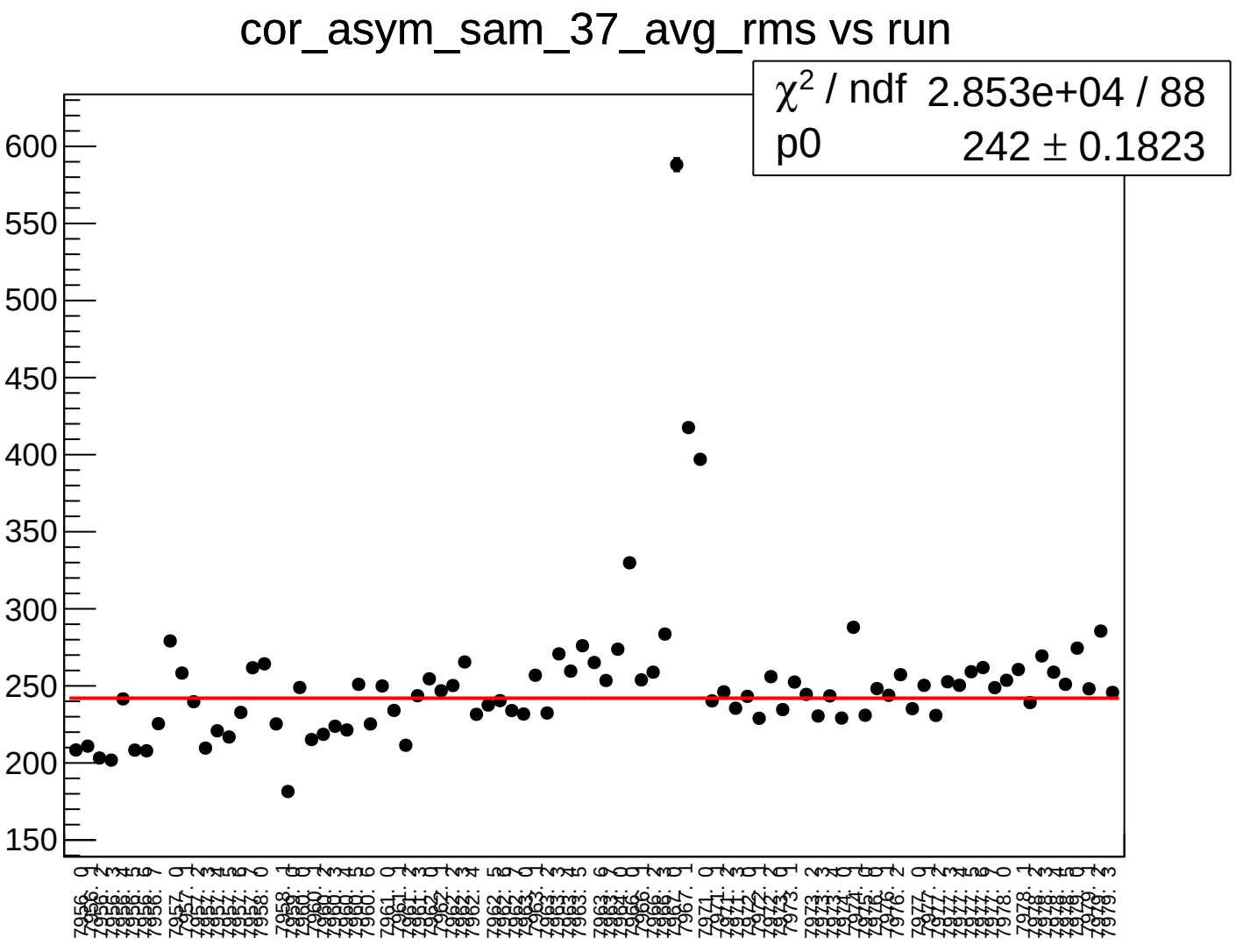

asym_sam_37_avg_reg_correction_mean vs run
×10^3
χ² / ndf 112.6 / 88
p0 1064 ± 2436
pull
Entries 89
Mean 1941
Std Dev 0

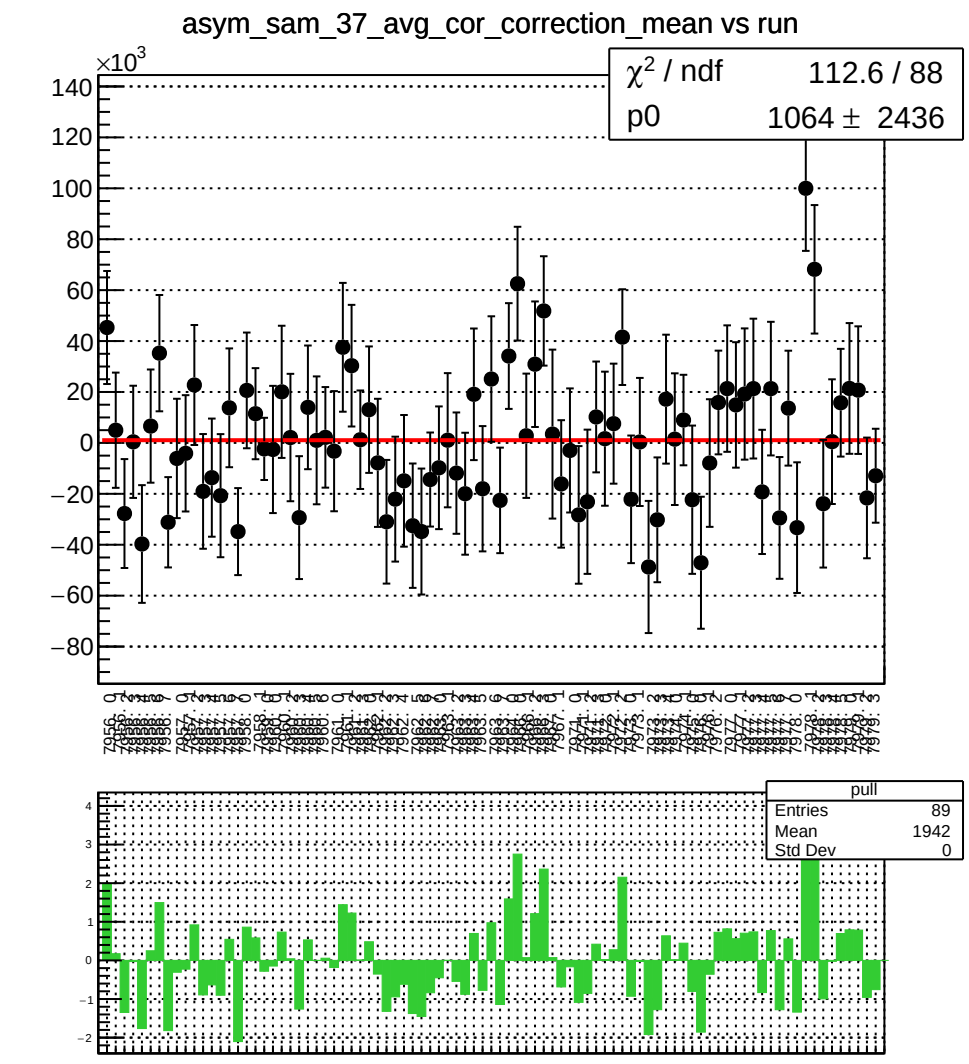

pull1D
Entries 89
Mean 0.001847
Std Dev 1.125

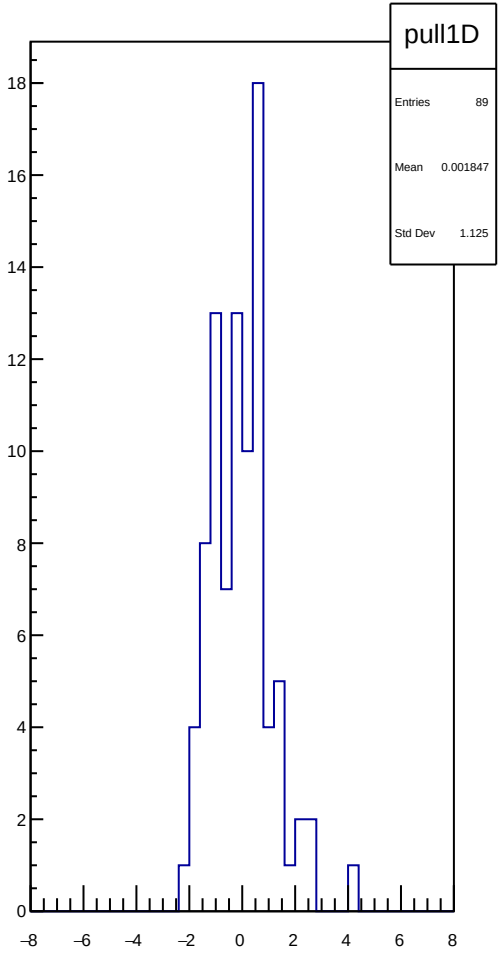

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.659e+04 / 88
p0 2295 ± 1.723
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

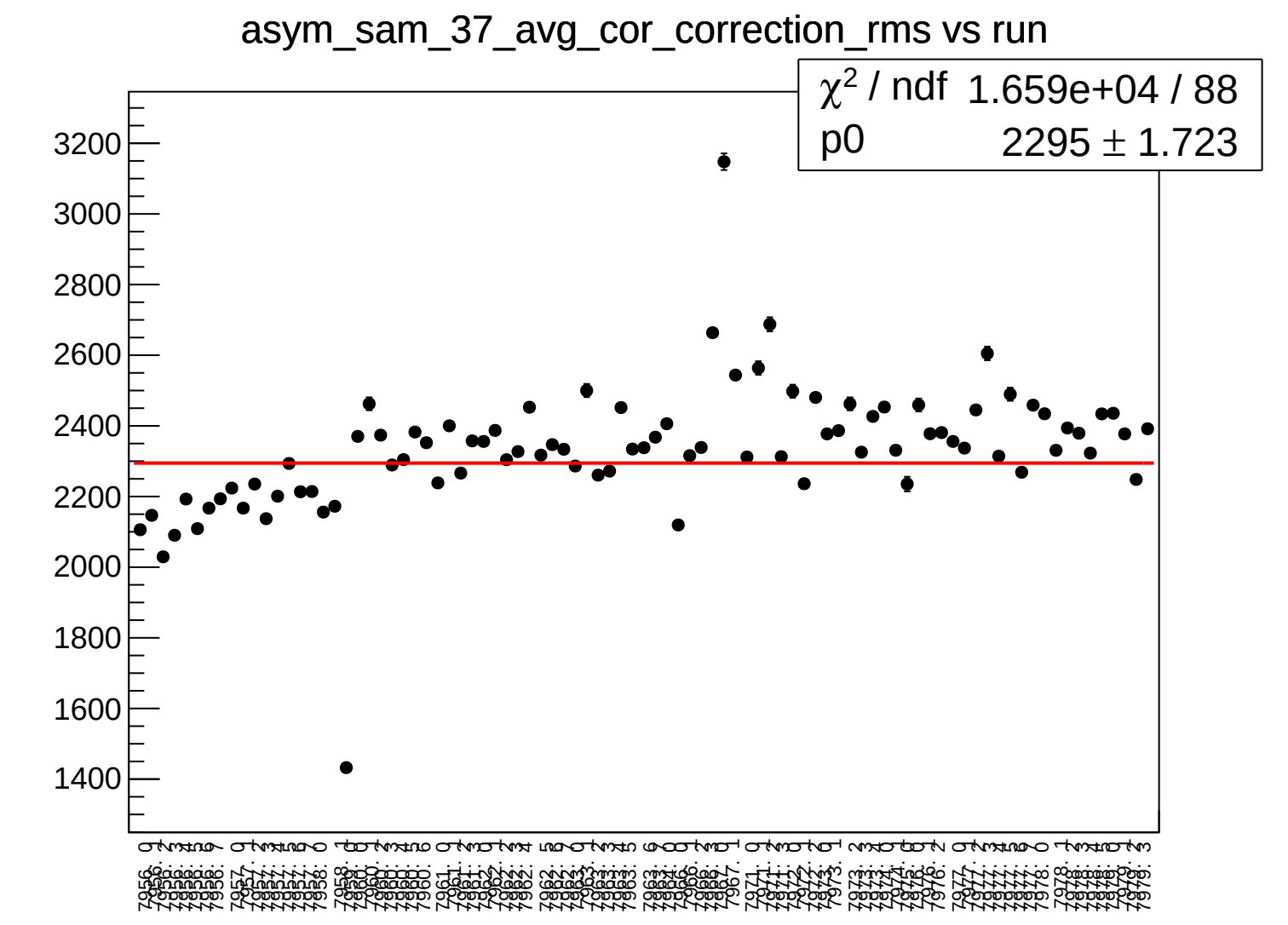

cor_asym_sam_37_avg_mean vs run
χ² / ndf 94.11 / 88
p0 213.7 ± 257.8
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −70.28
Std Dev 0
3
2
1
0
−1
−2

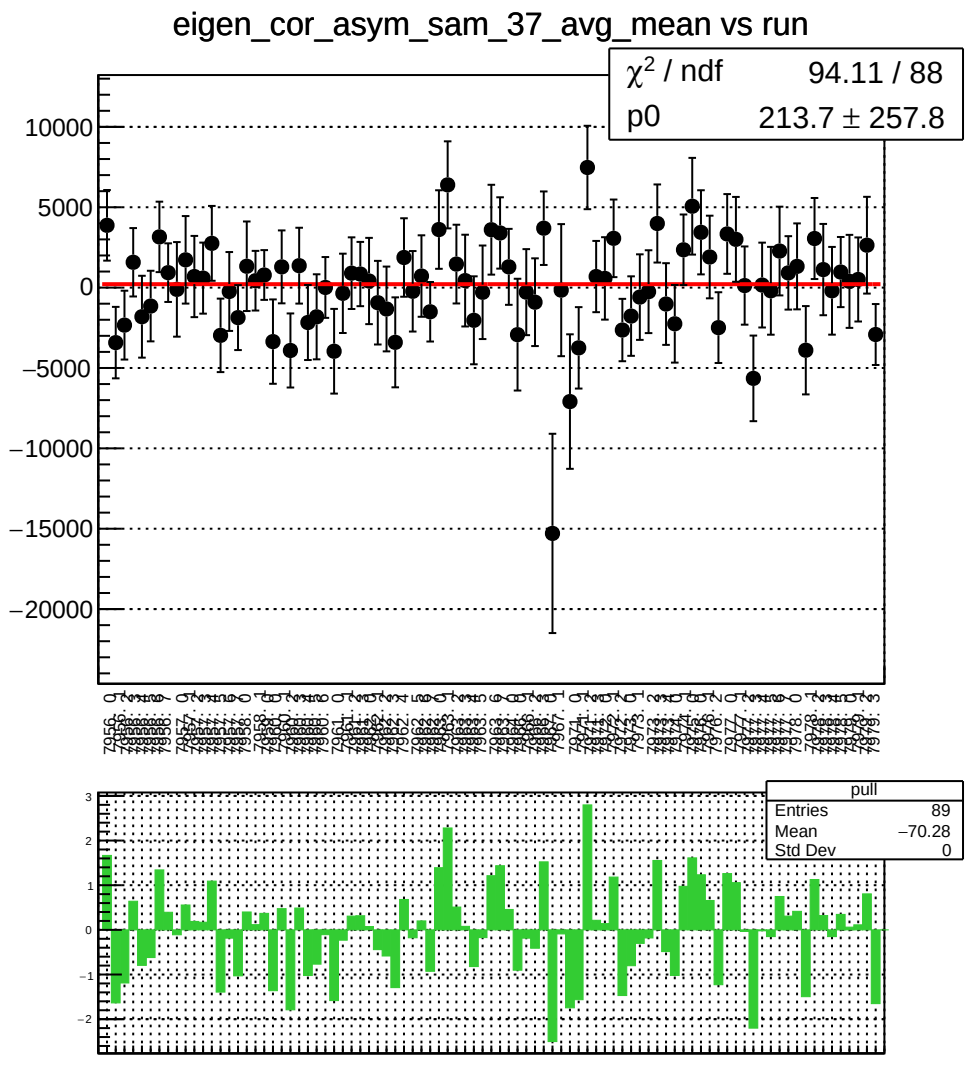

pull1D
Entries 89
Mean −0.01733
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

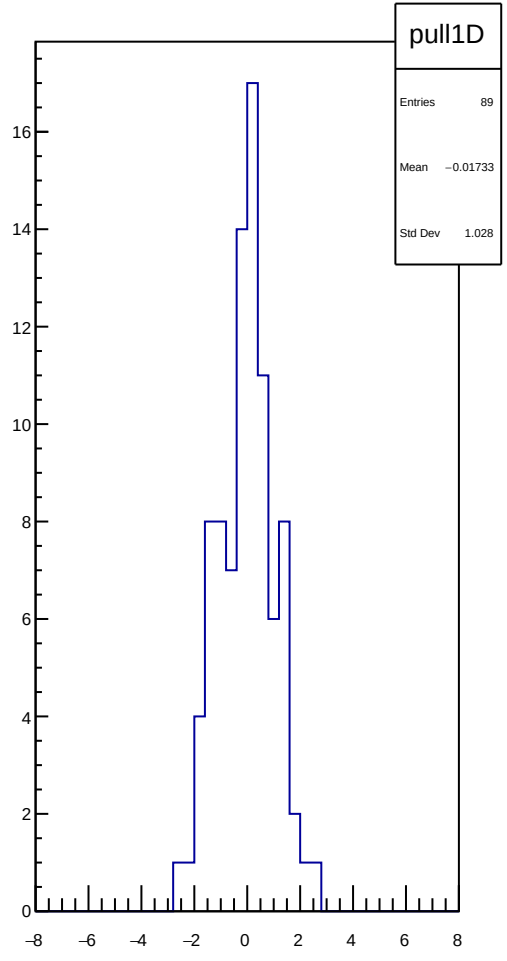

cor_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 2.853e+04 / 88
p0 242 ± 0.1823
600
550
500
450
400
350
300
250
200
150

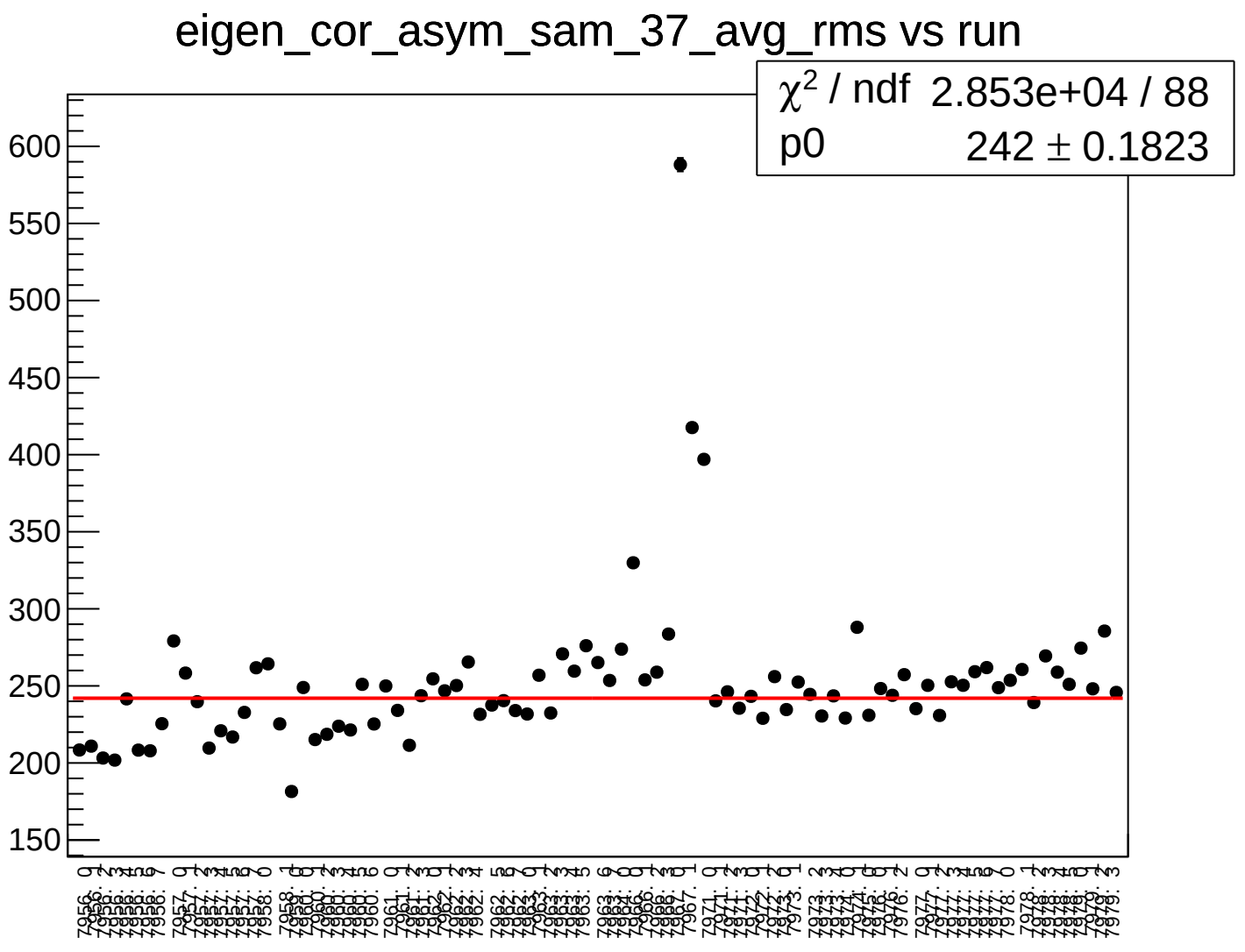

asym_sam_37_avg_cor_correction_mean vs run
×10^3
χ² / ndf 112.6 / 88
p0 1064 ± 2436
pull
Entries 89
Mean 1942
Std Dev 0

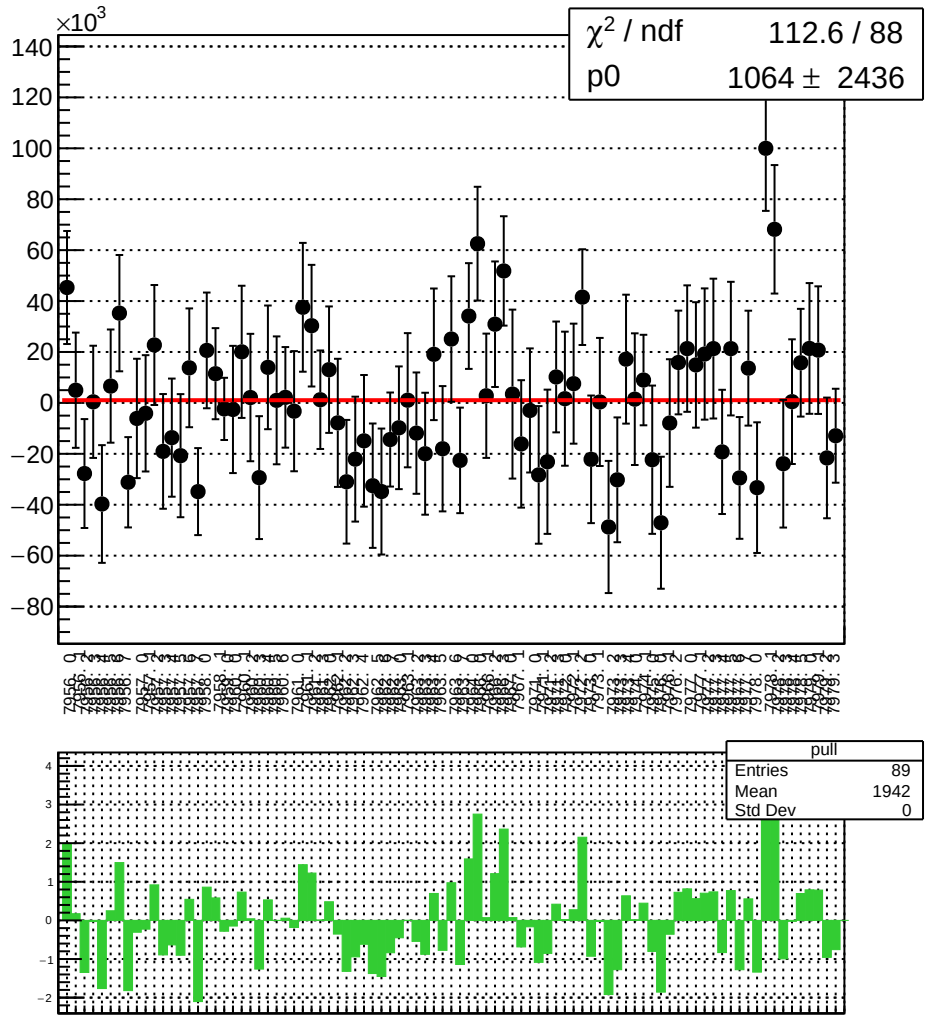

pull1D
Entries 89
Mean 0.001847
Std Dev 1.125

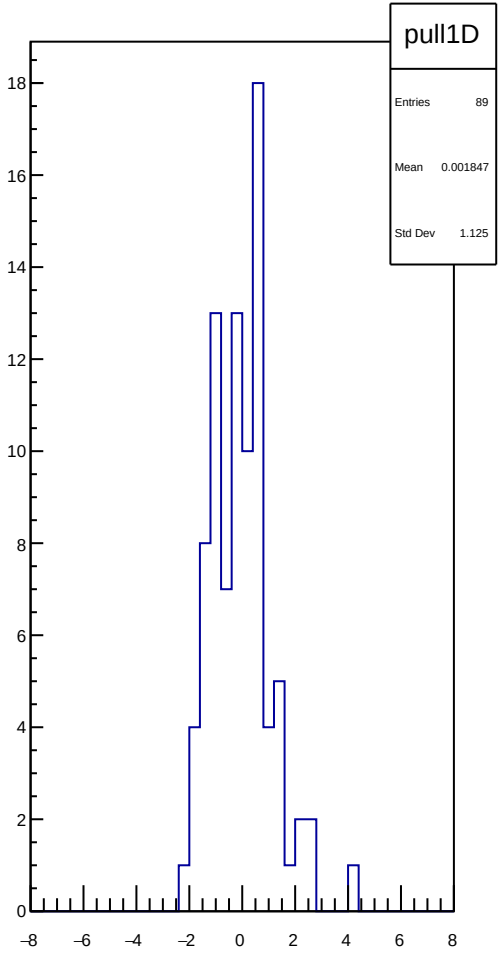

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.659e+04 / 88
p0 2295 ± 1.723
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

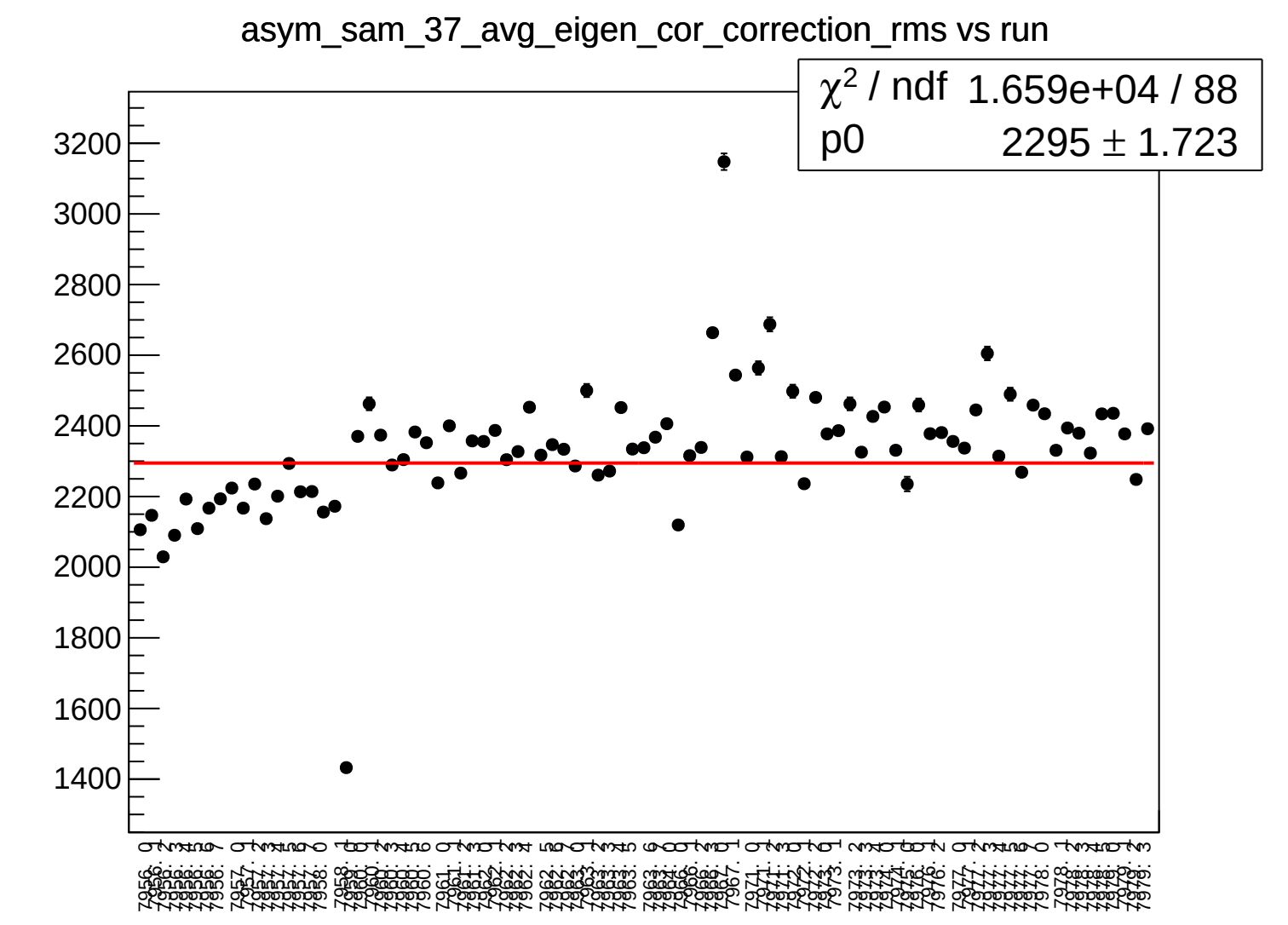

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 94.11 / 88
p0 213.7 ± 257.8
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −70.28
Std Dev 0
3
2
1
0
−1
−2

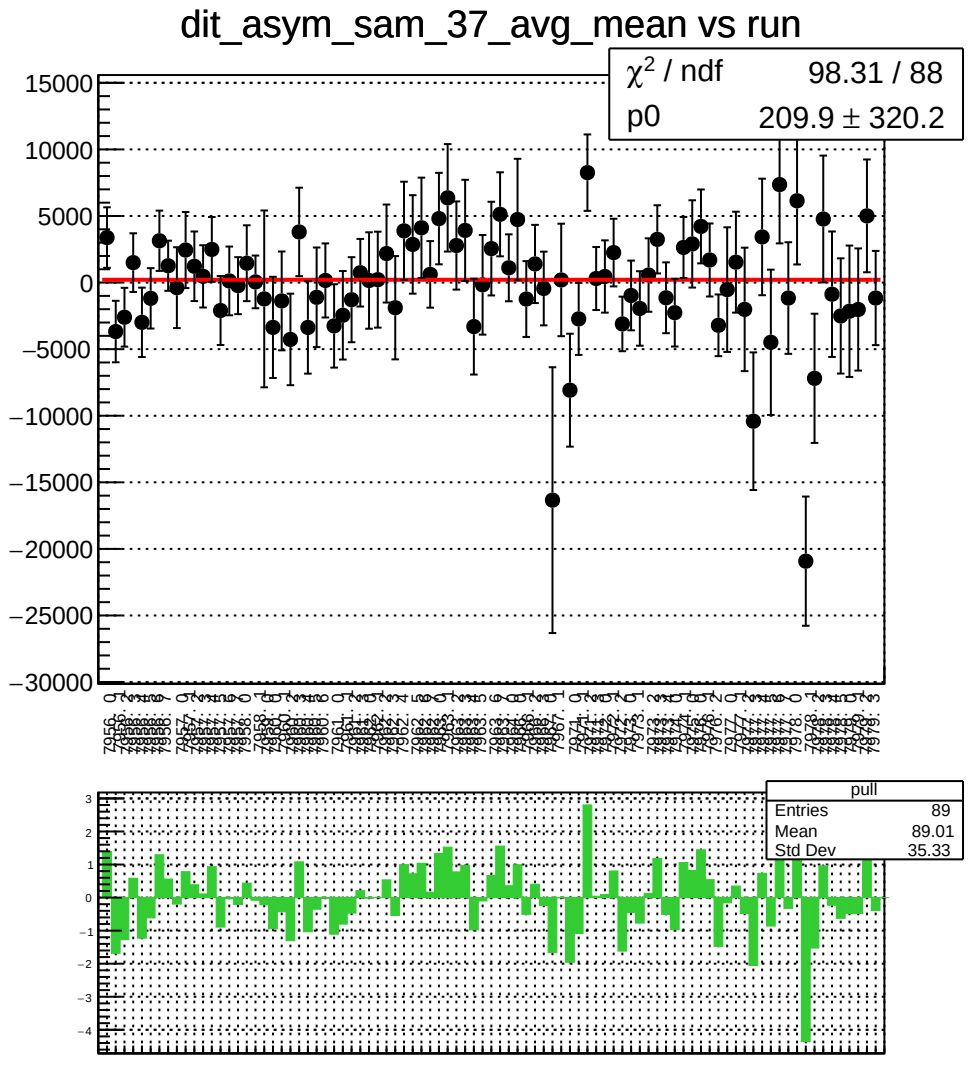

pull1D
Entries 89
Mean −0.01733
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

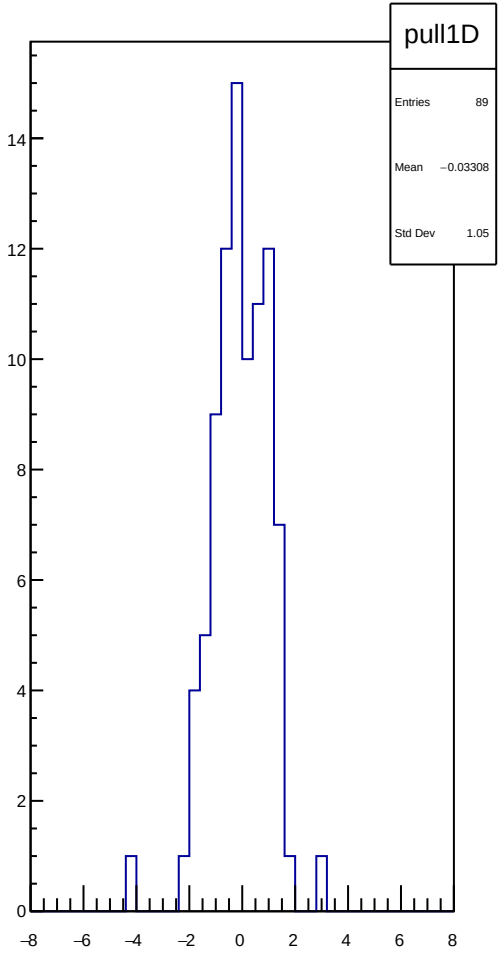

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.853e+04 / 88
p0 242 ± 0.1823
600
550
500
450
400
350
300
250
200
150

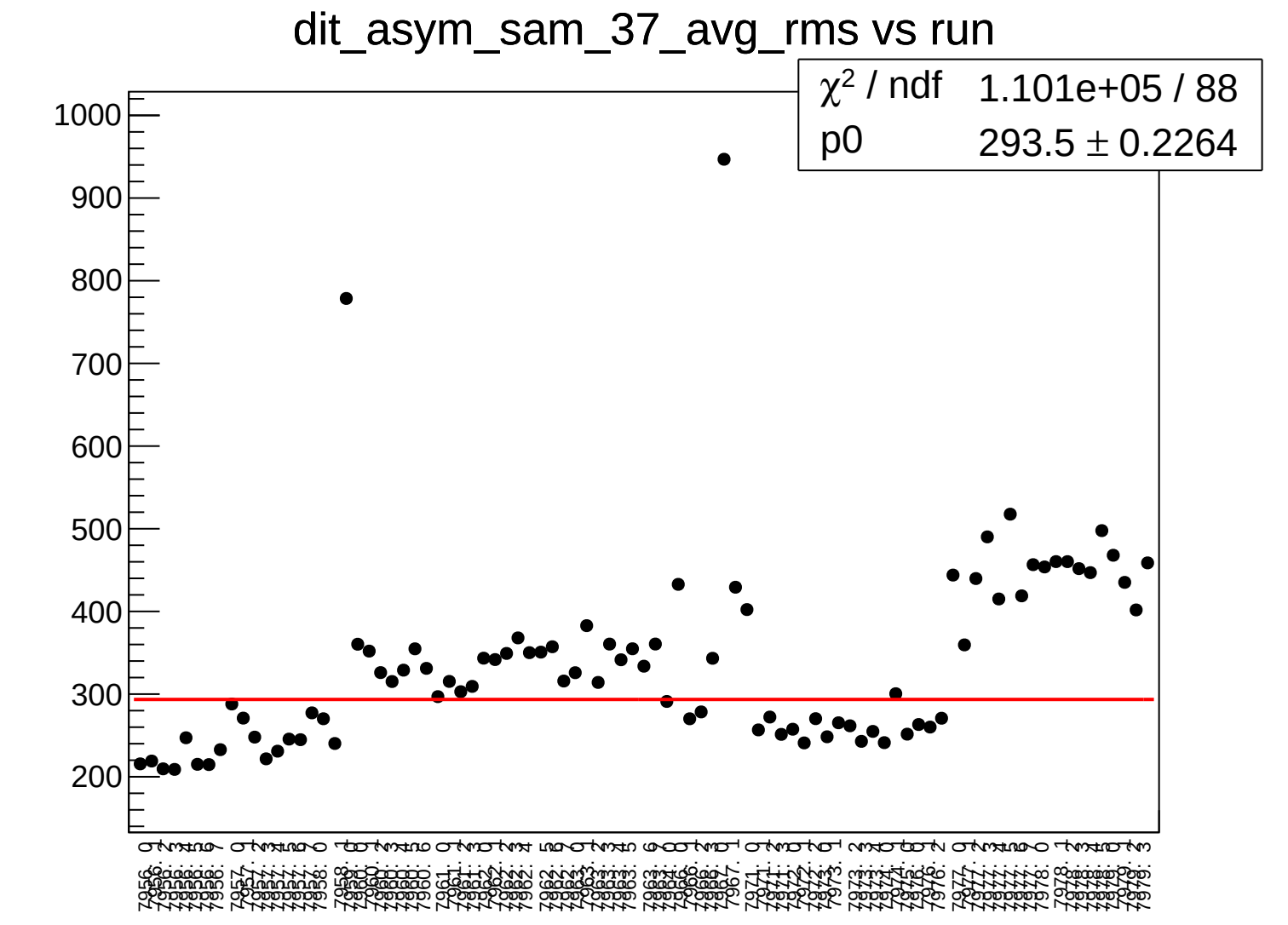

asym_sam_37_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 112.6 / 88
p0 1064 ± 2436
pull
Entries 89
Mean 1942
Std Dev 0

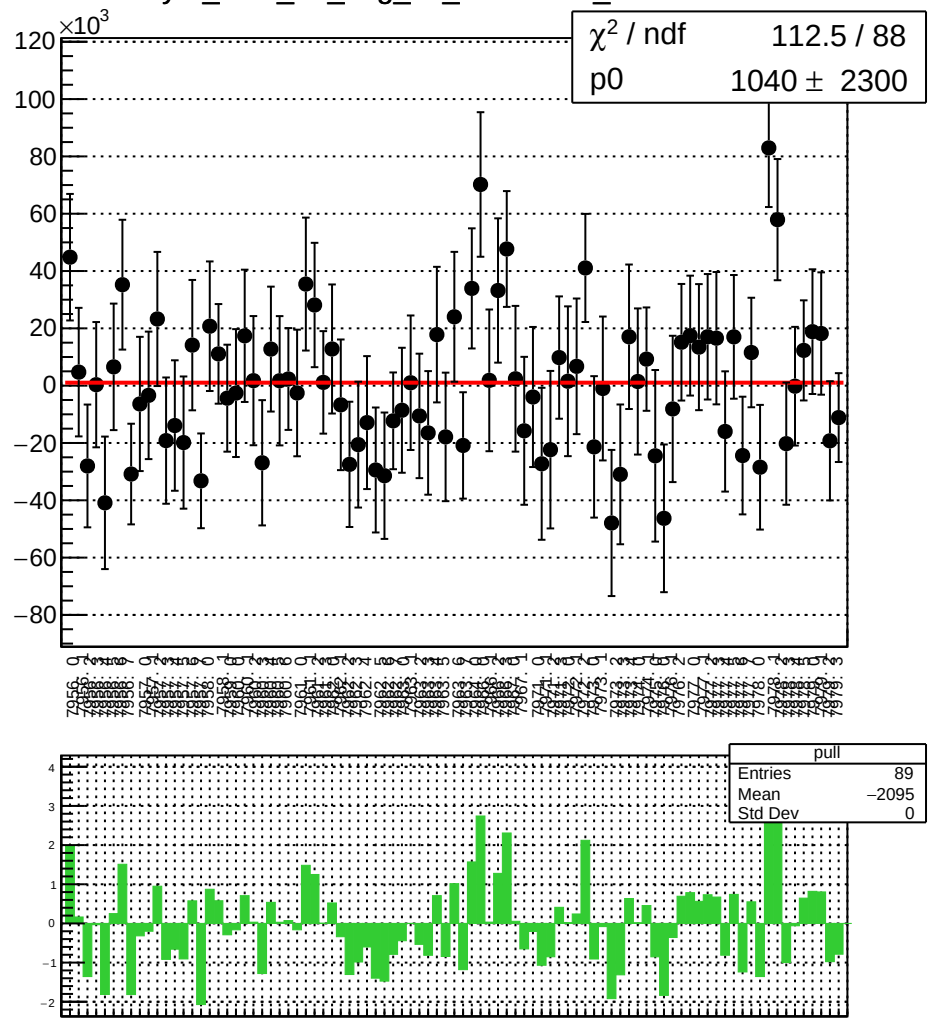

pull1D
Entries 89
Mean 0.001847
Std Dev 1.125

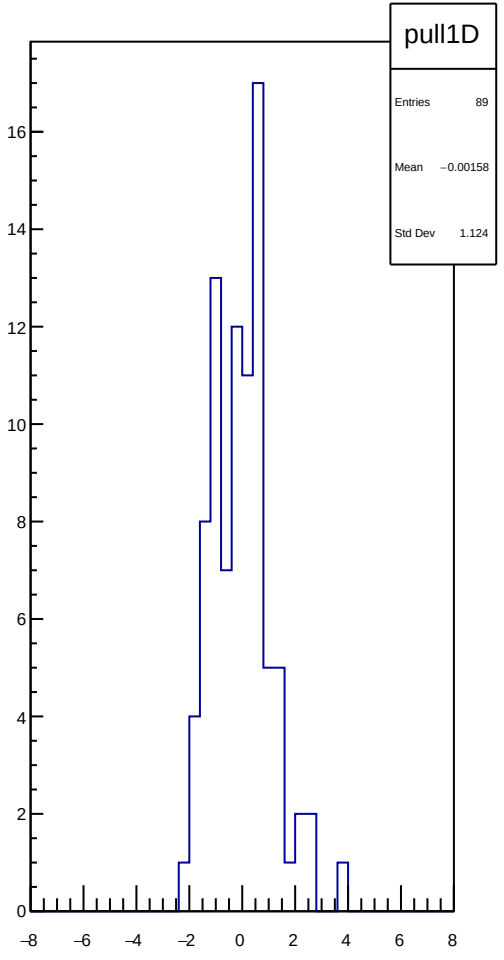

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.659e+04 / 88
p0 2295 ± 1.723
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

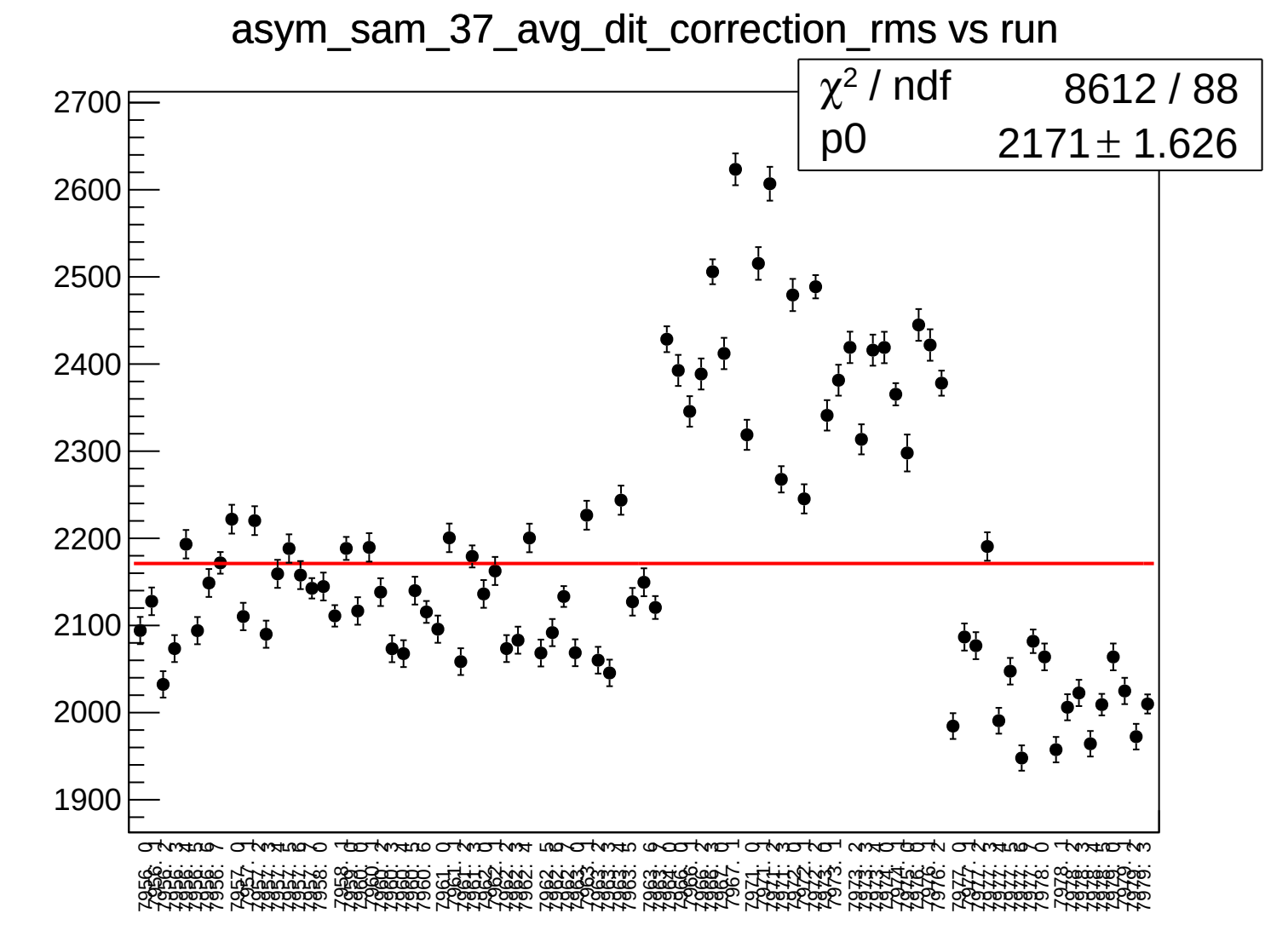

dit_asym_sam_37_avg_mean vs run
χ² / ndf 98.31 / 88
p0 209.9 ± 320.2
pull
Entries 89
Mean 89.01
Std Dev 35.33

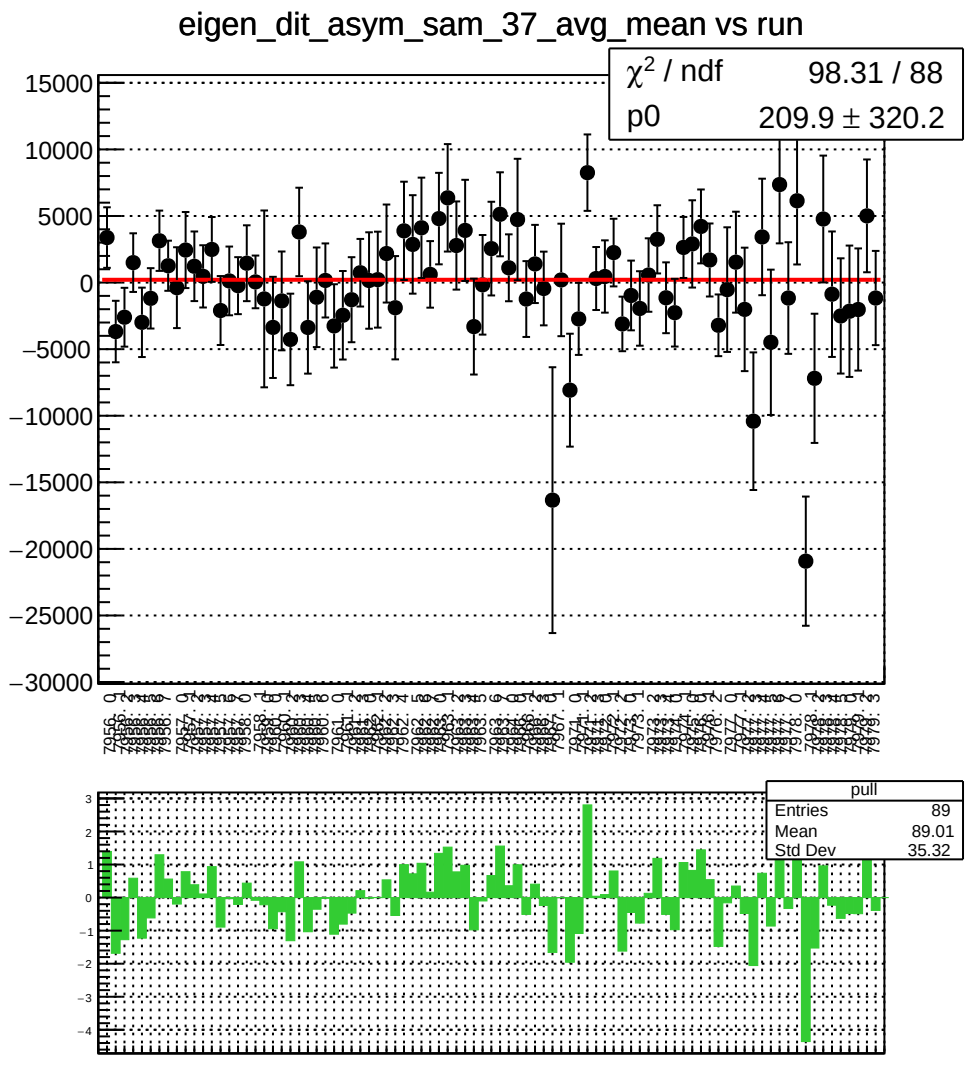

pull1D
Entries 89
Mean −0.03308
Std Dev 1.05

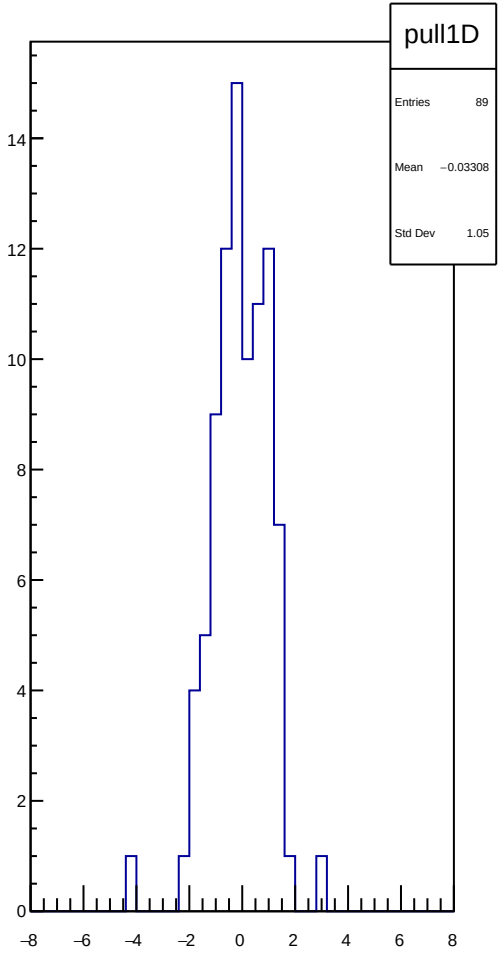

dit_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 1.101e+05 / 88
p0 293.5 ± 0.2264
1000
900
800
700
600
500
400
300
200

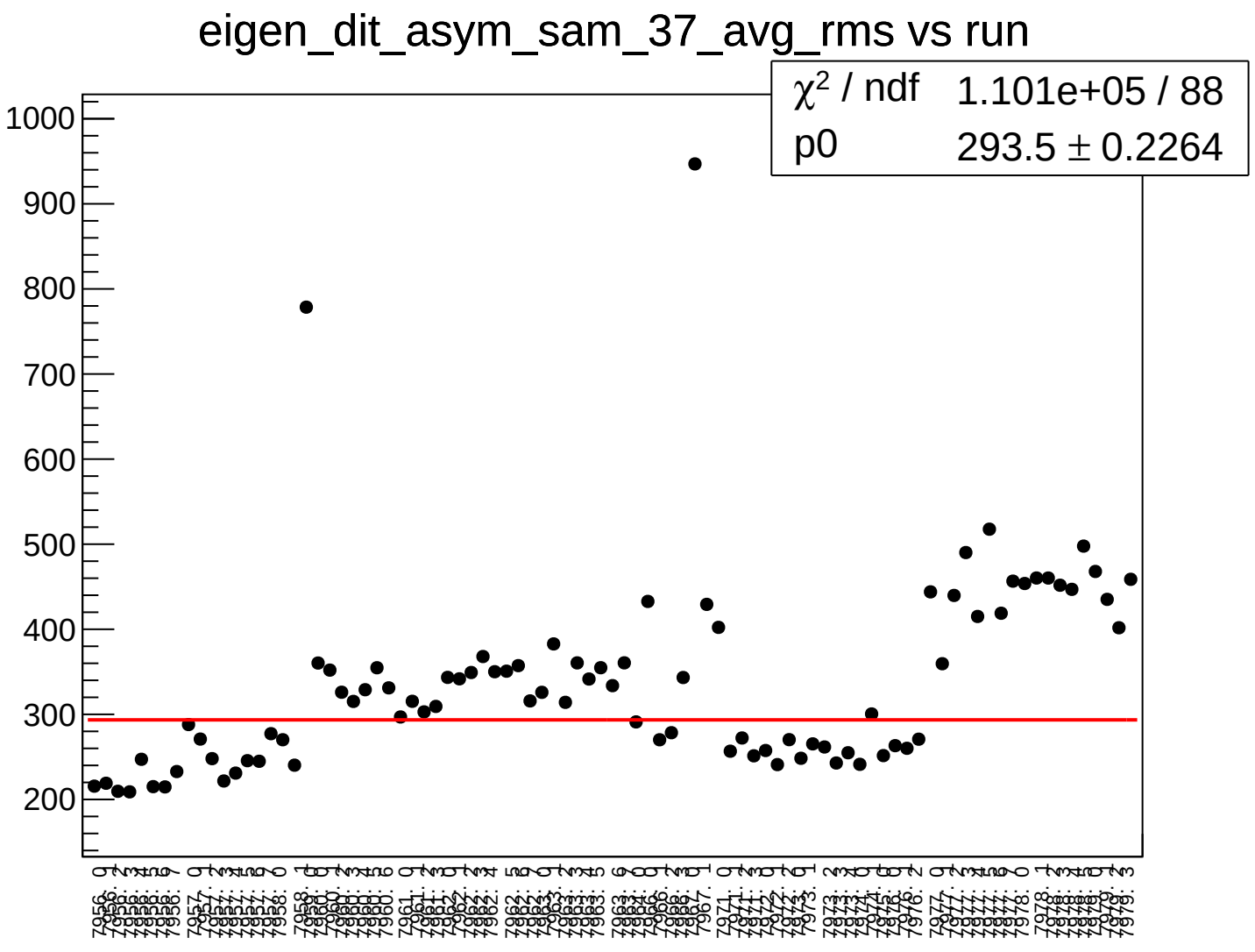

asym_sam_37_avg_dit_correction_mean vs run
×10^3
χ² / ndf 112.5 / 88
p0 1040 ± 2300
pull
Entries 89
Mean −2095
Std Dev 0

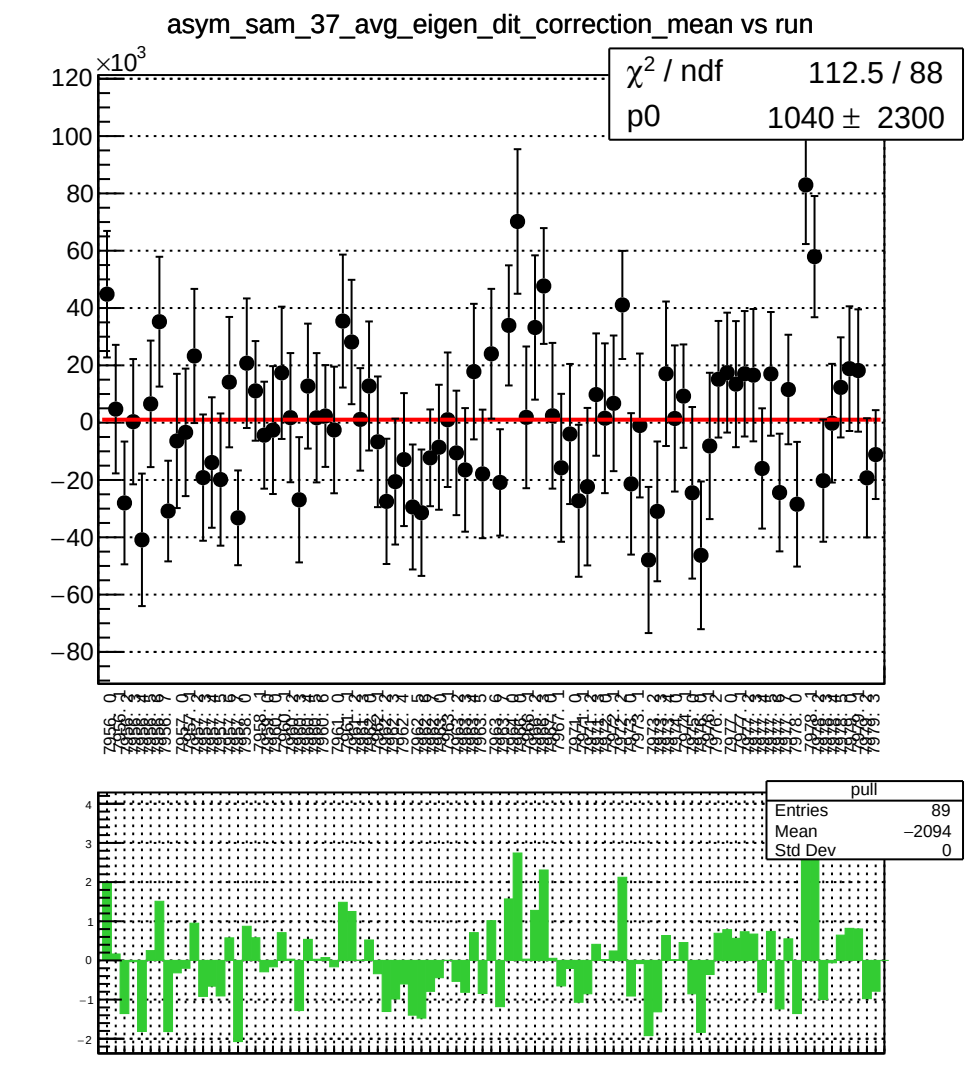

pull1D
Entries 89
Mean −0.00158
Std Dev 1.124

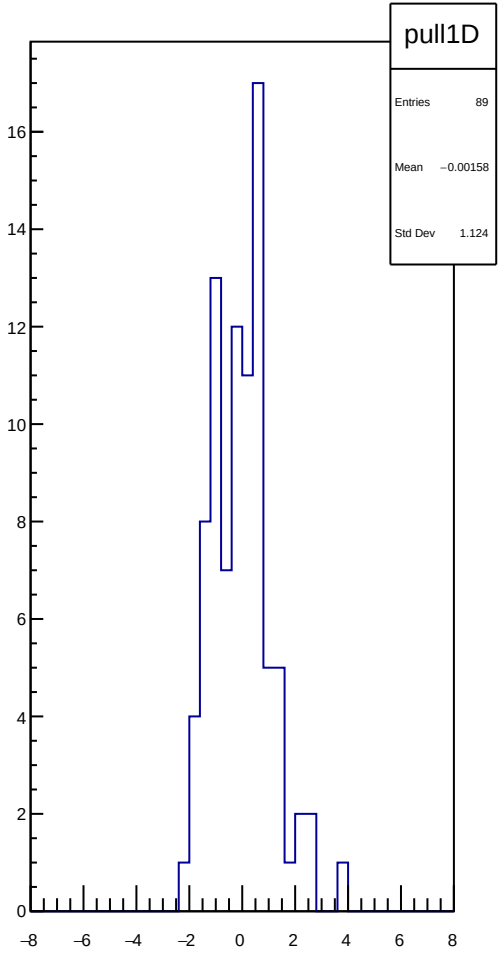

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 8612 / 88
p0 2171 ± 1.626
2700
2600
2500
2400
2300
2200
2100
2000
1900

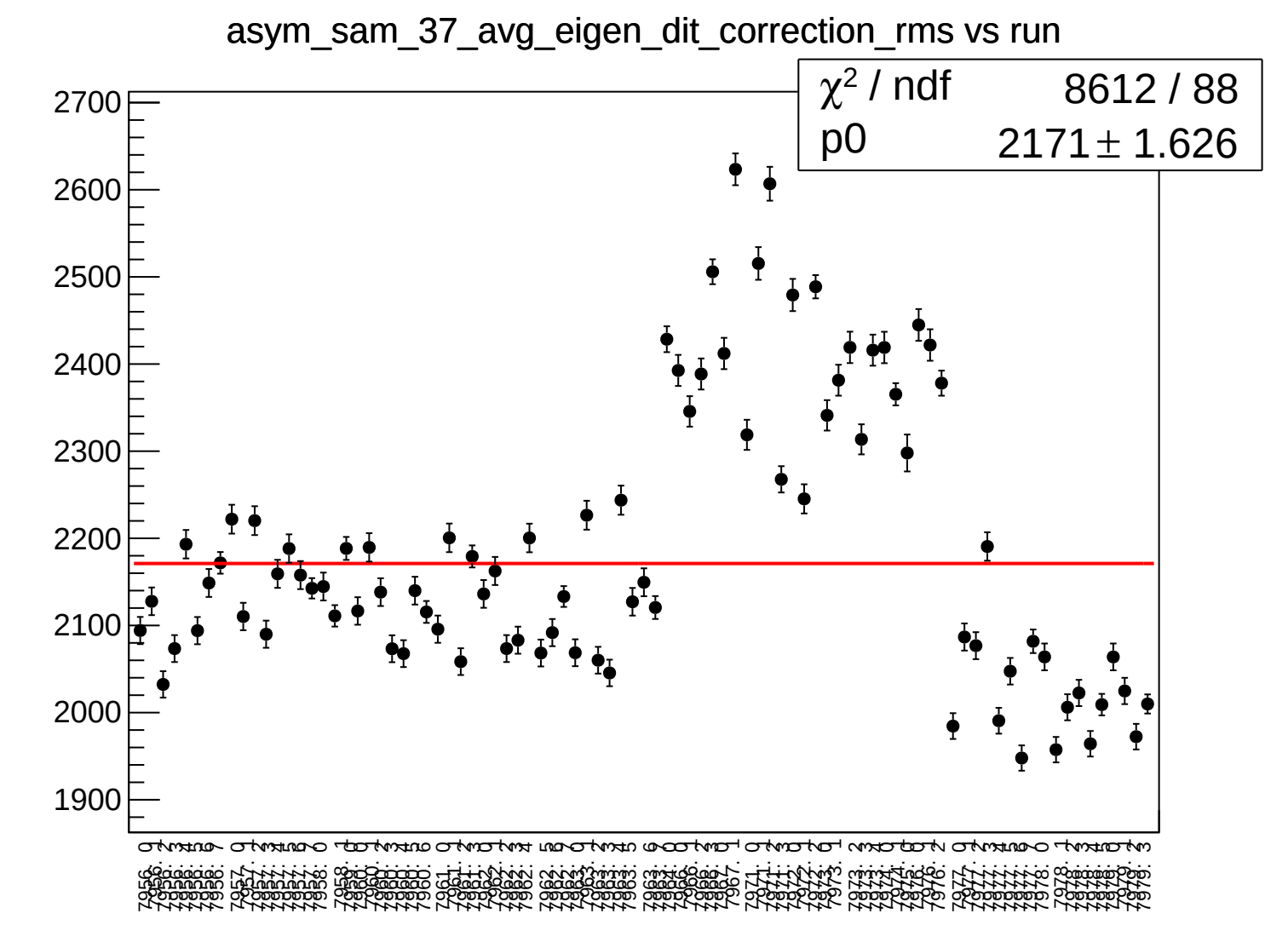

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 98.31 / 88
p0 209.9 ± 320.2
pull
Entries 89
Mean 89.01
Std Dev 35.32

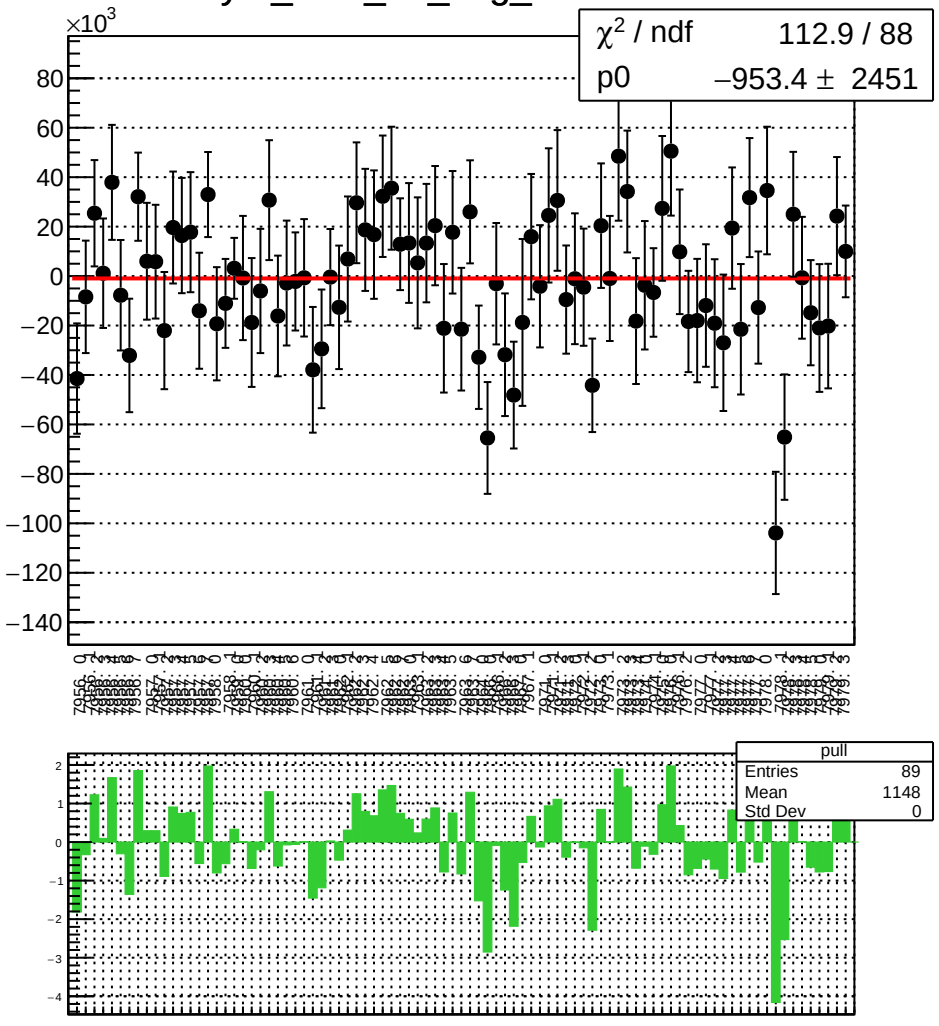

pull1D
Entries 89
Mean −0.03308
Std Dev 1.05

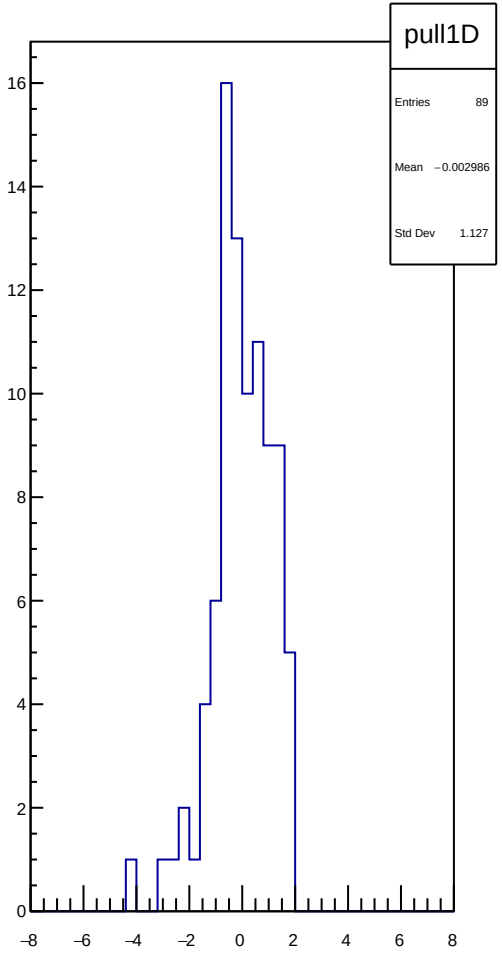

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.101e+05 / 88
p0 293.5 ± 0.2264
1000
900
800
700
600
500
400
300
200

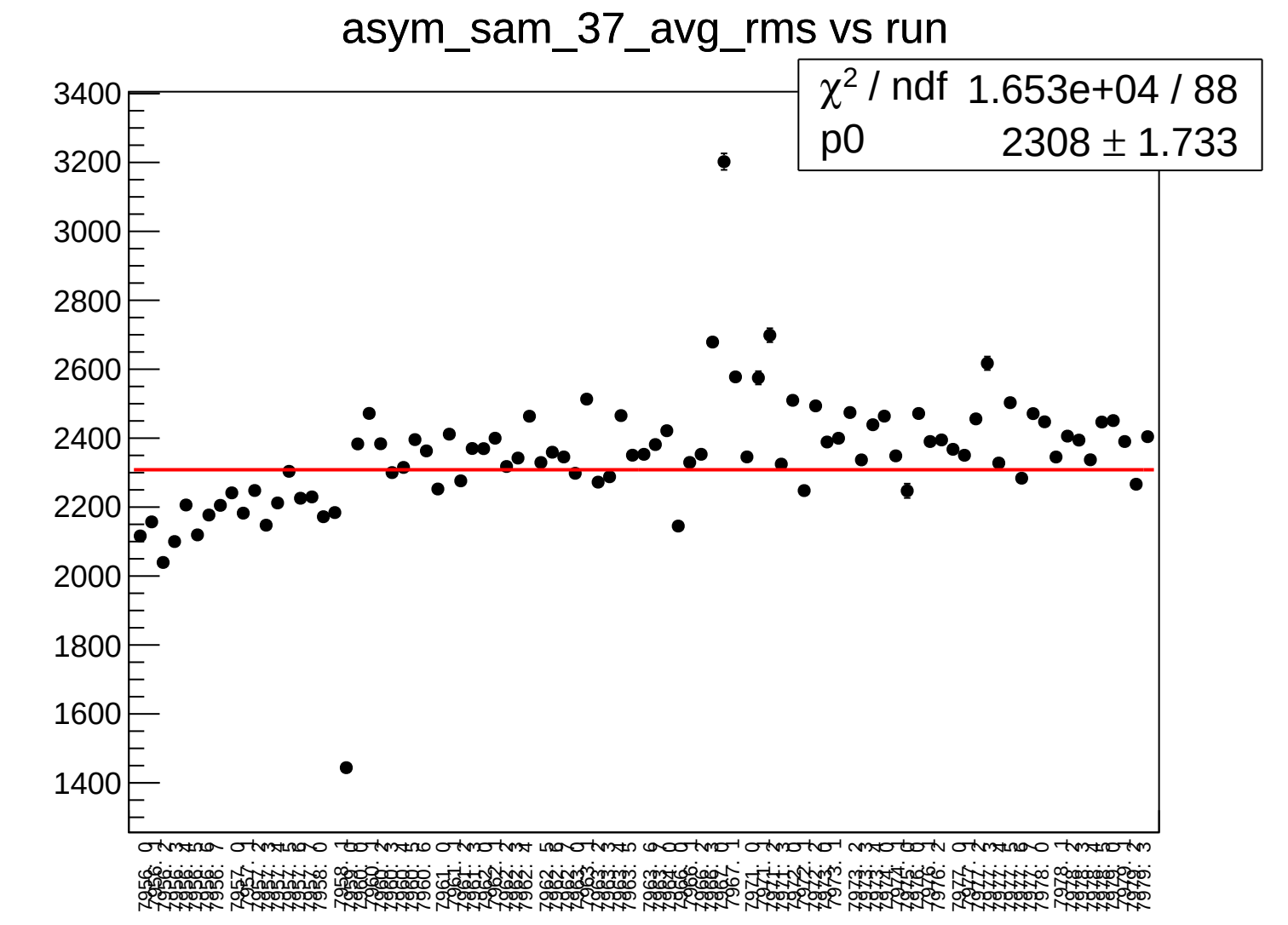

asym_sam_37_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 112.5 / 88
p0 1040 ± 2300
pull
Entries 89
Mean −2094
Std Dev 0

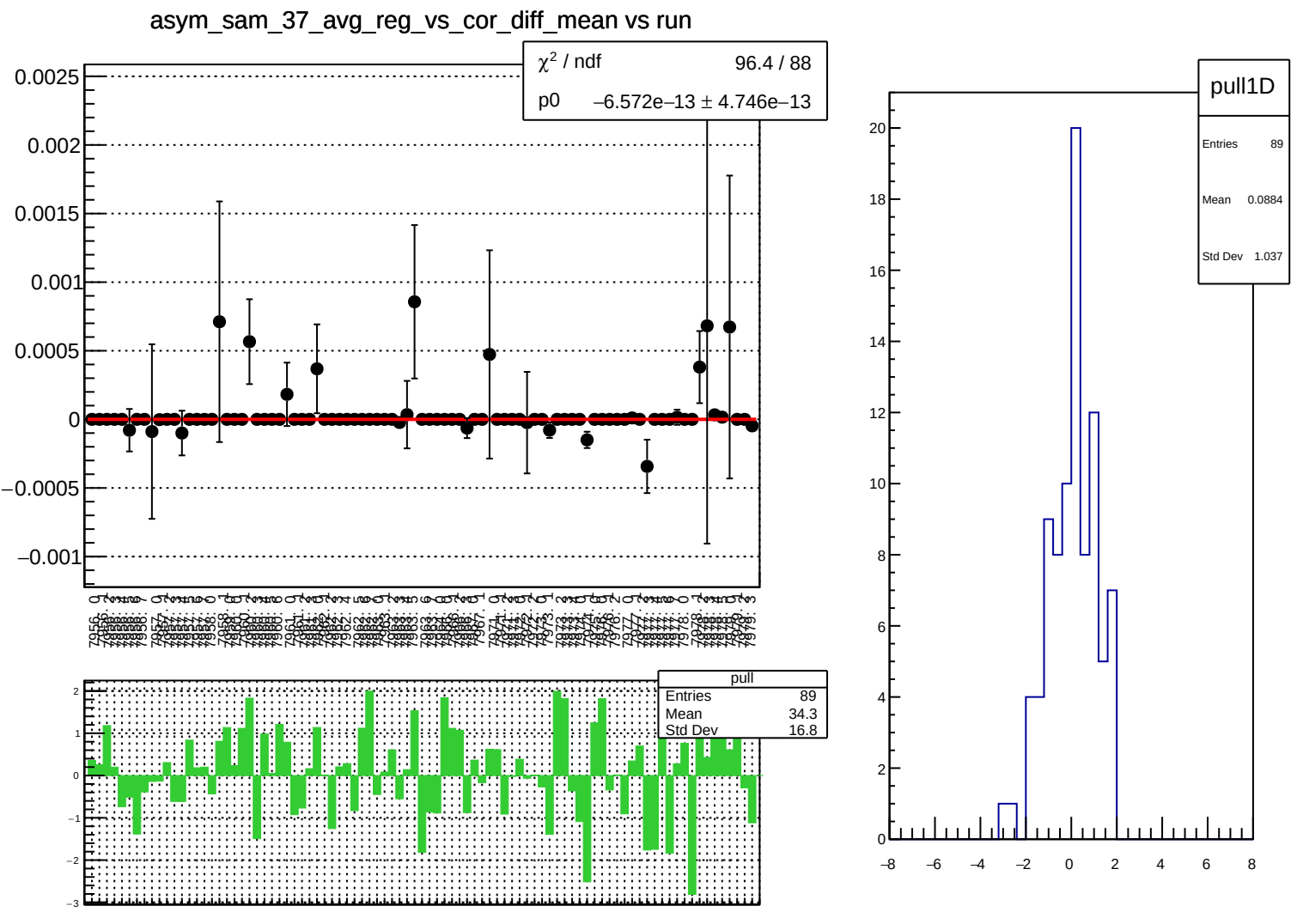

pull1D
Entries 89
Mean −0.00158
Std Dev 1.124

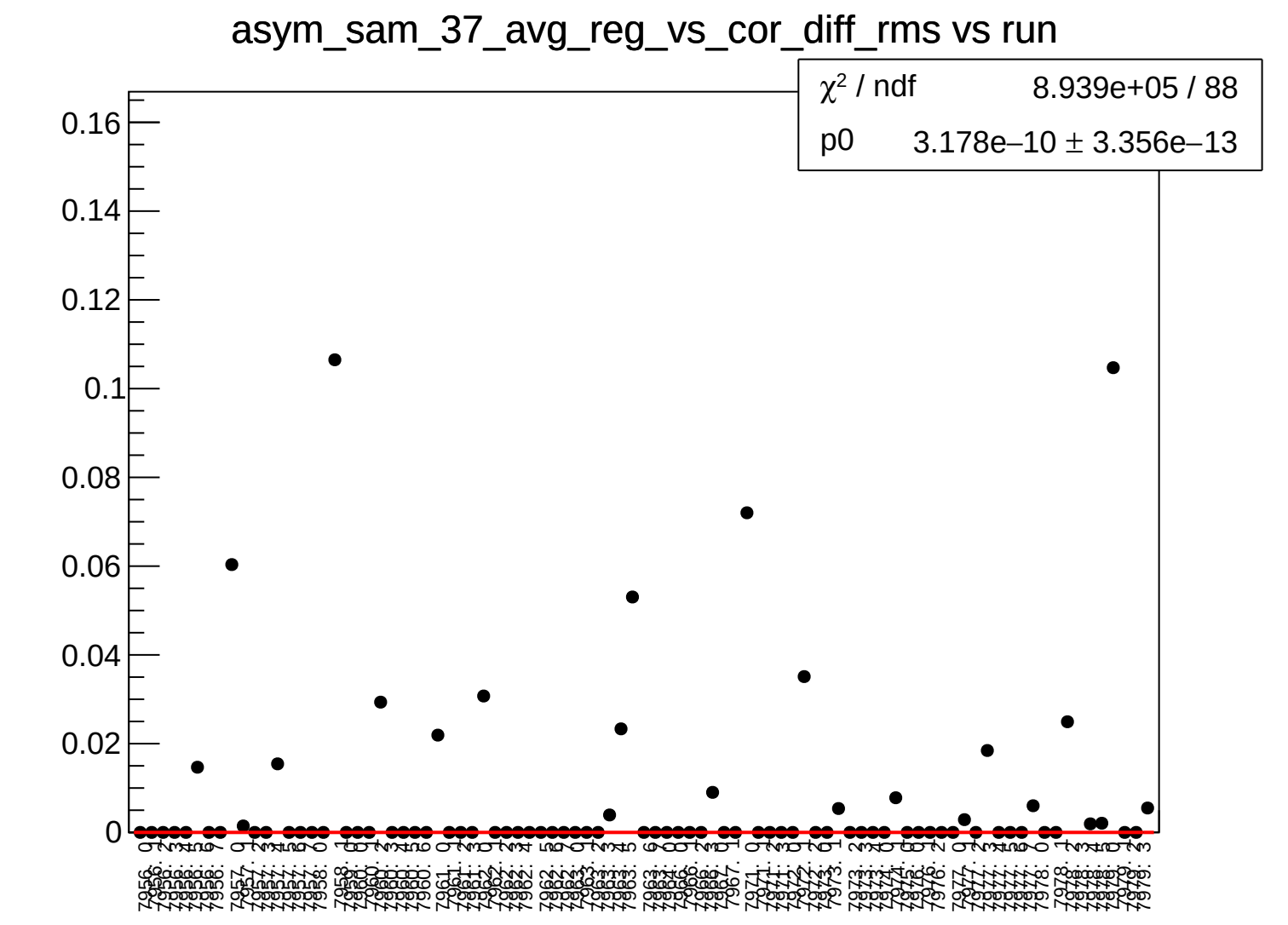

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 8612 / 88
p0 2171 ± 1.626
2700
2600
2500
2400
2300
2200
2100
2000
1900

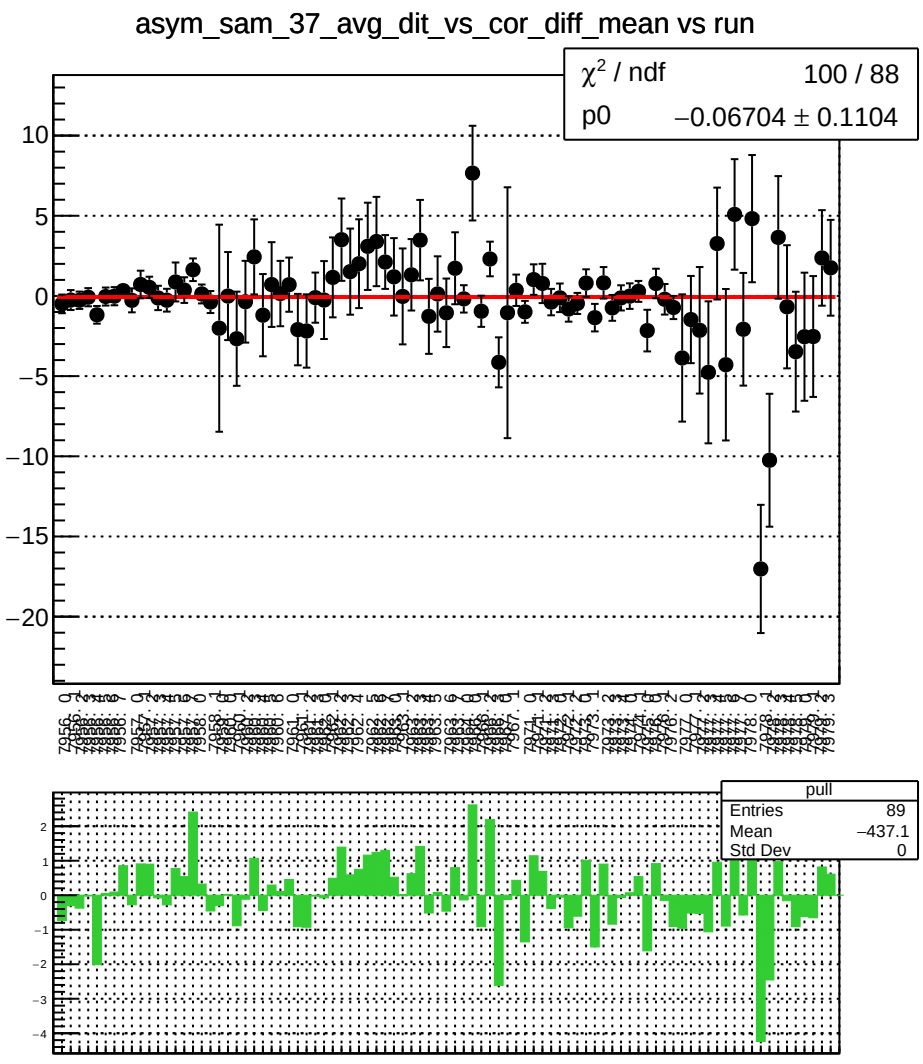

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 112.9 / 88
p0 −953.4 ± 2451
pull
Entries 89
Mean 1148
Std Dev 0

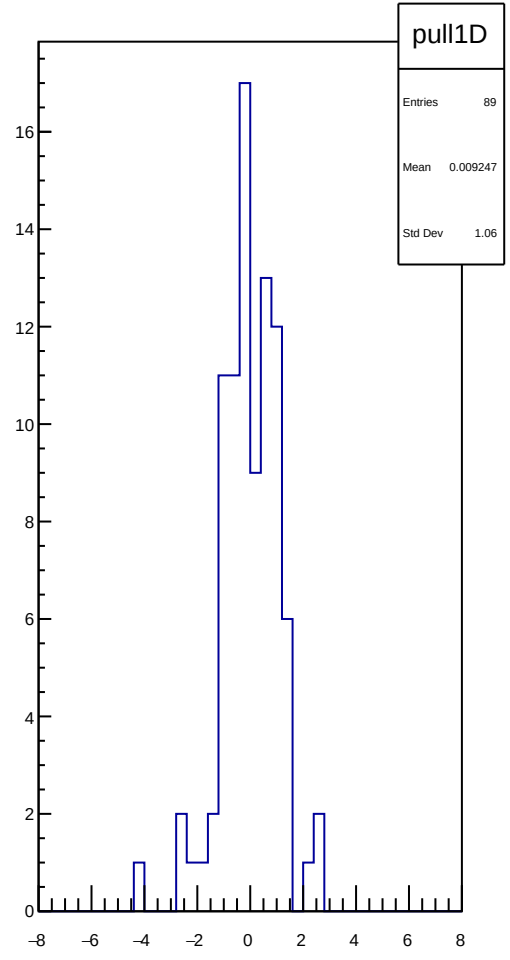

pull1D
Entries 89
Mean −0.002986
Std Dev 1.127

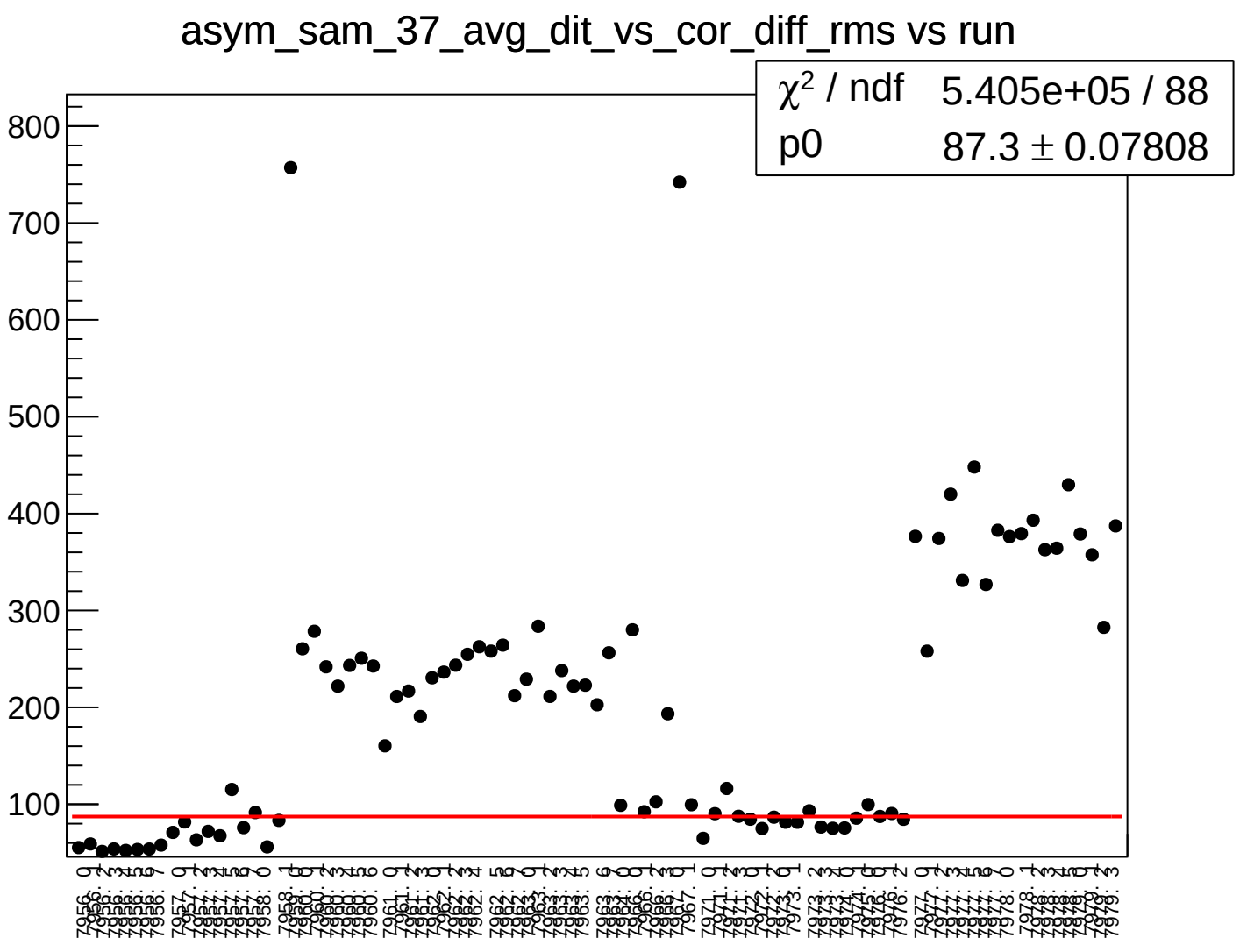

asym_sam_37_avg_rms vs run
χ² / ndf 1.653e+04 / 88
p0 2308 ± 1.733
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

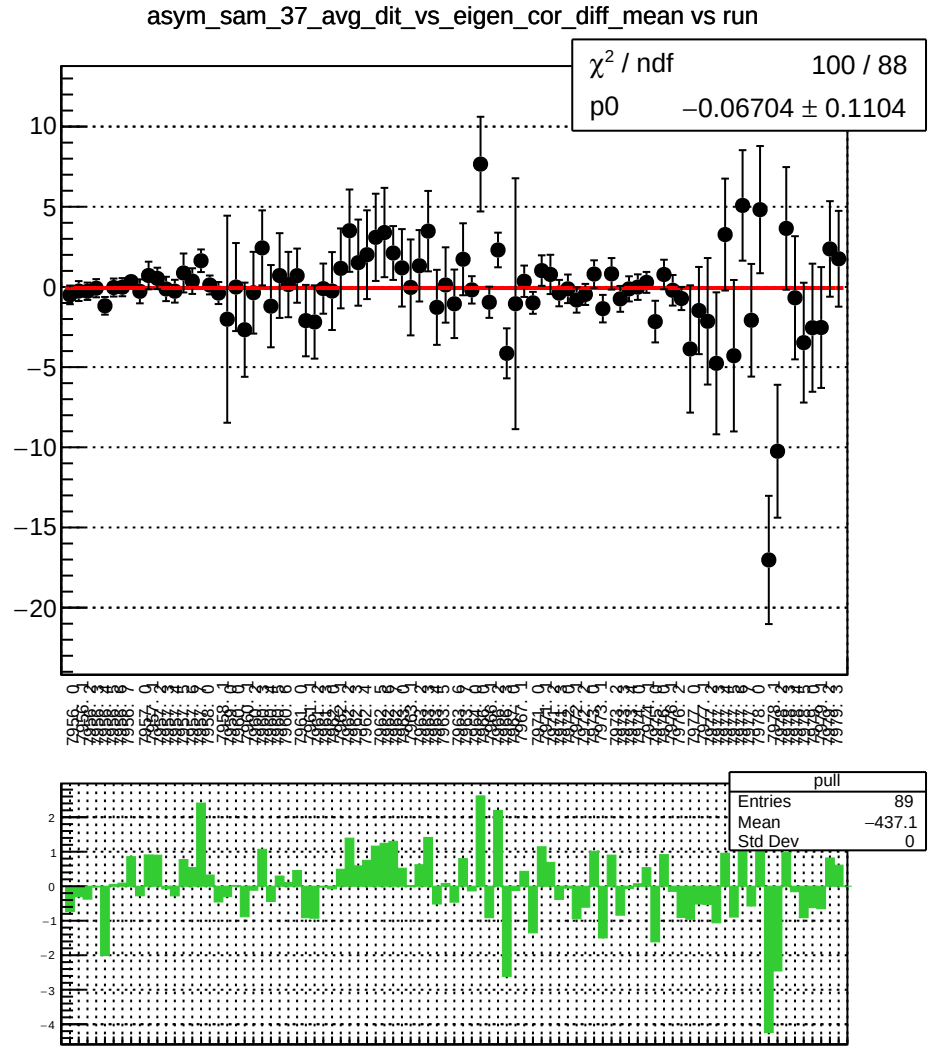

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.4 / 88
p0 −6.572e−13 ± 4.746e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 34.3
Std Dev 16.8
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.0884
Std Dev 1.037
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

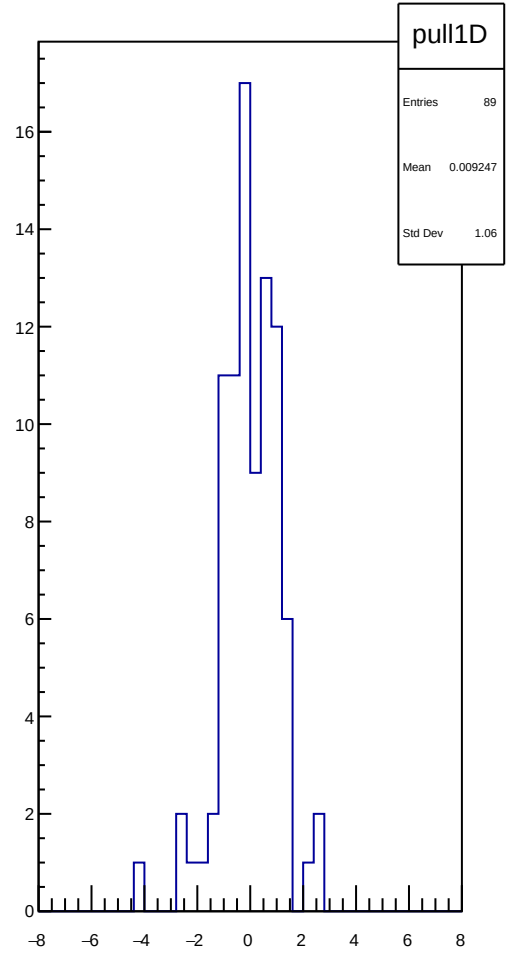

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.939e+05 / 88
p0 3.178e−10 ± 3.356e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

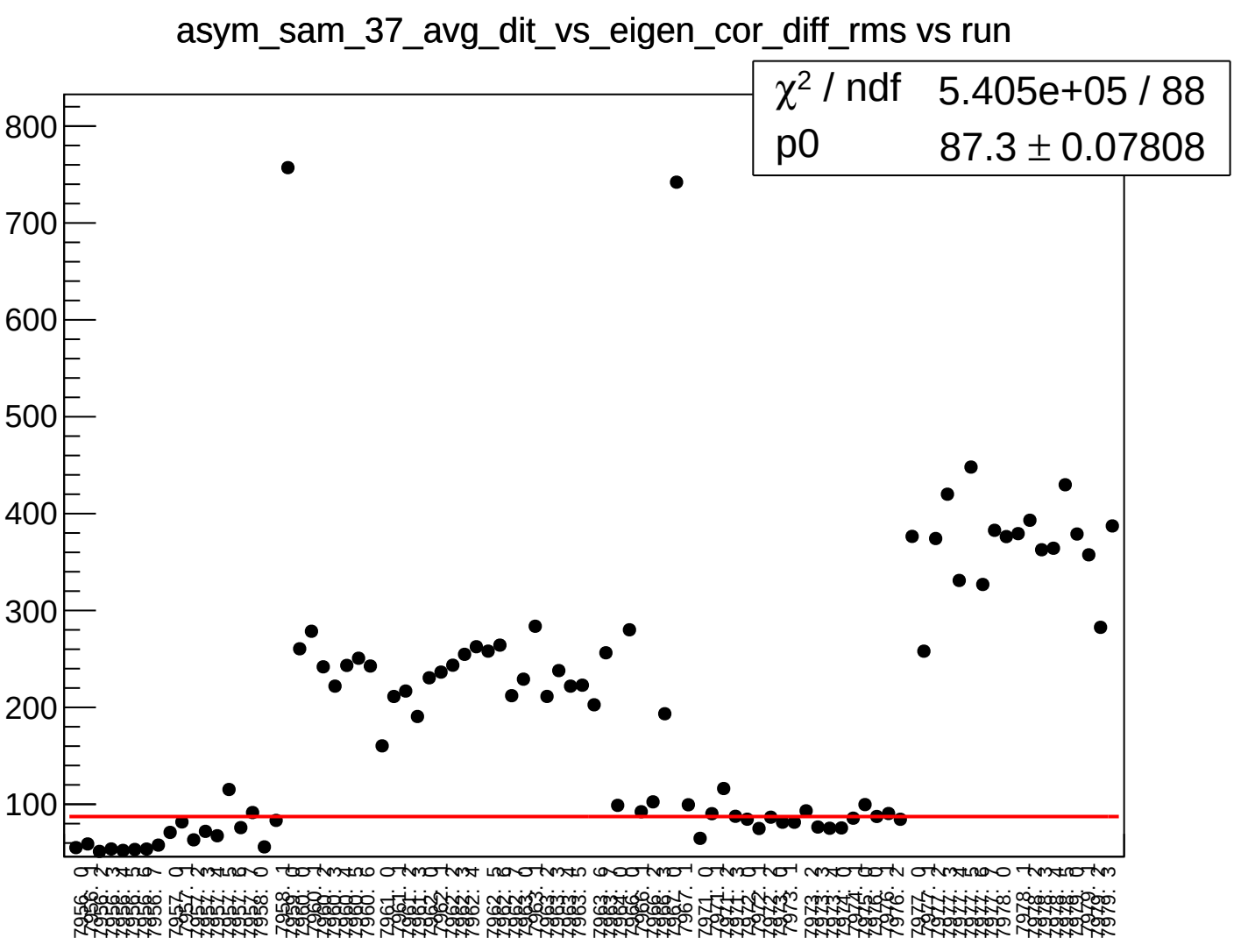

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100 / 88
p0 −0.06704 ± 0.1104
pull
Entries 89
Mean −437.1
Std Dev 0

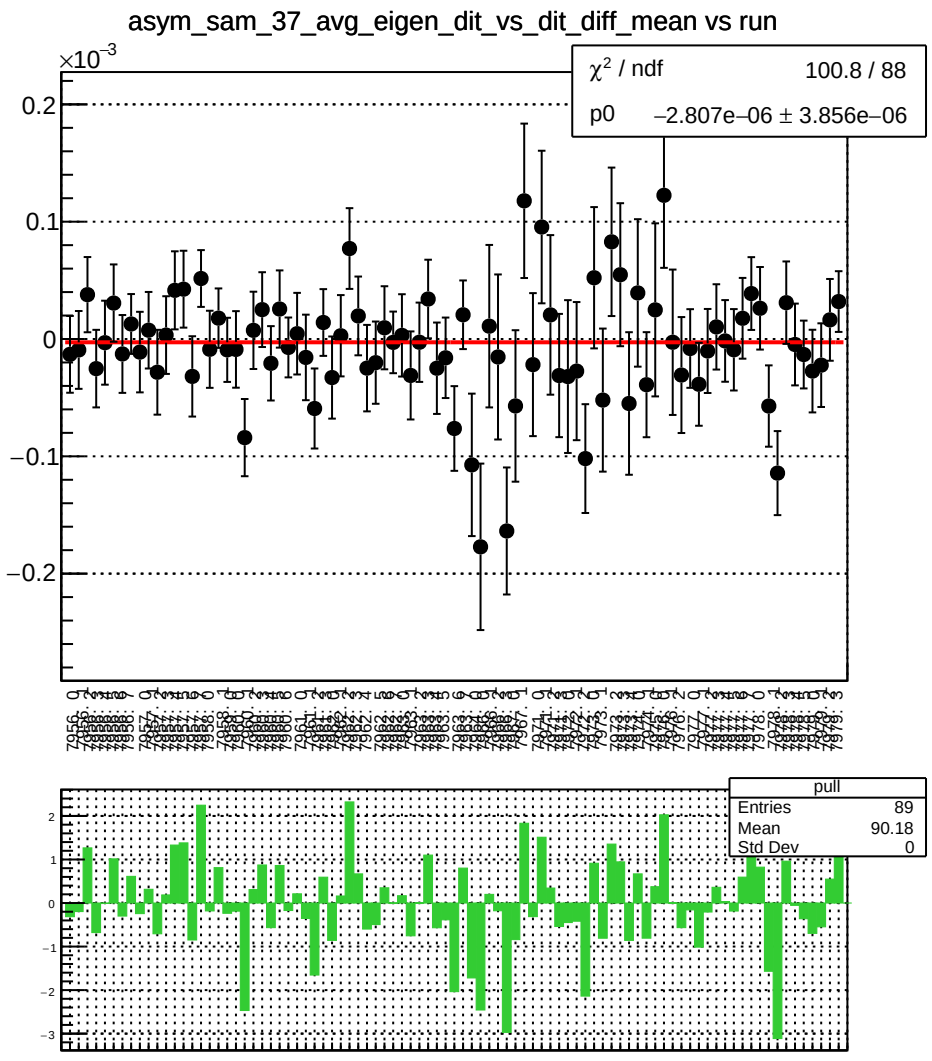

pull1D
Entries 89
Mean 0.009247
Std Dev 1.06

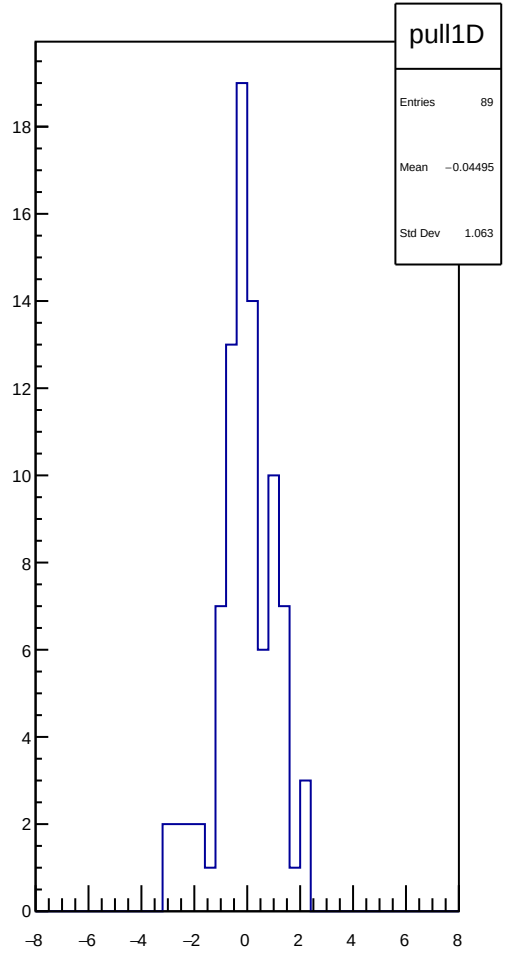

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.405e+05 / 88
p0 87.3 ± 0.07808
800
700
600
500
400
300
200
100

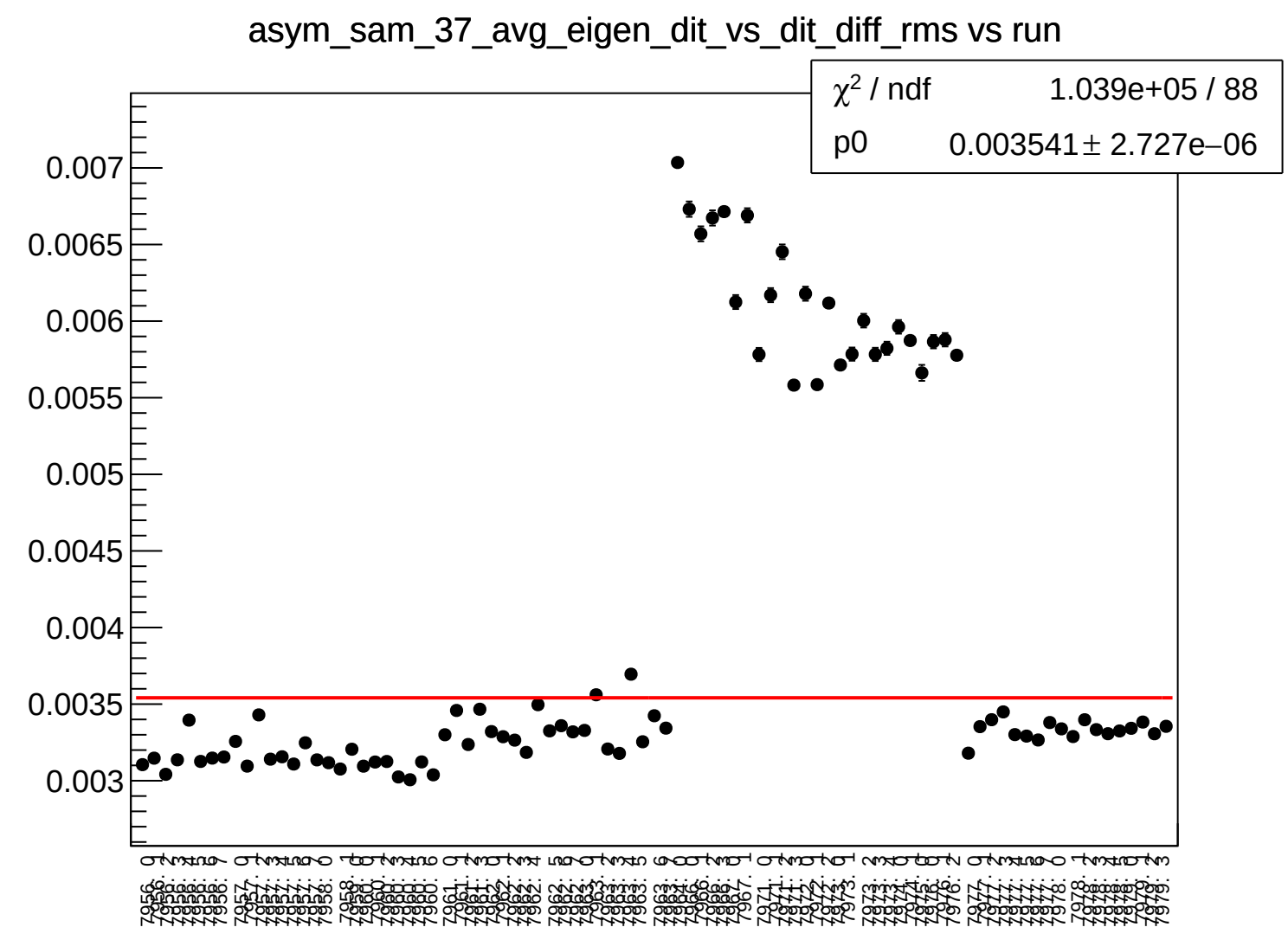

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100 / 88
p0 −0.06704 ± 0.1104
pull
Entries 89
Mean −437.1
Std Dev 0

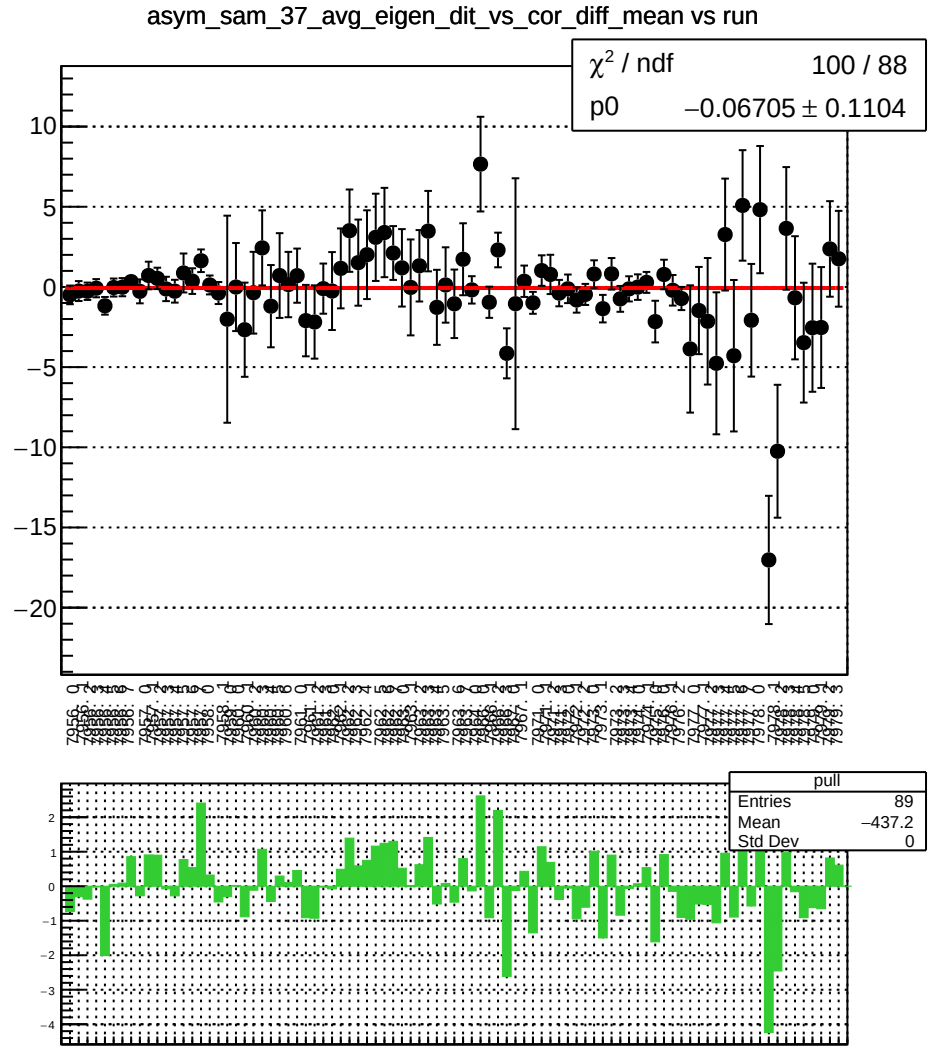

pull1D
Entries 89
Mean 0.009247
Std Dev 1.06

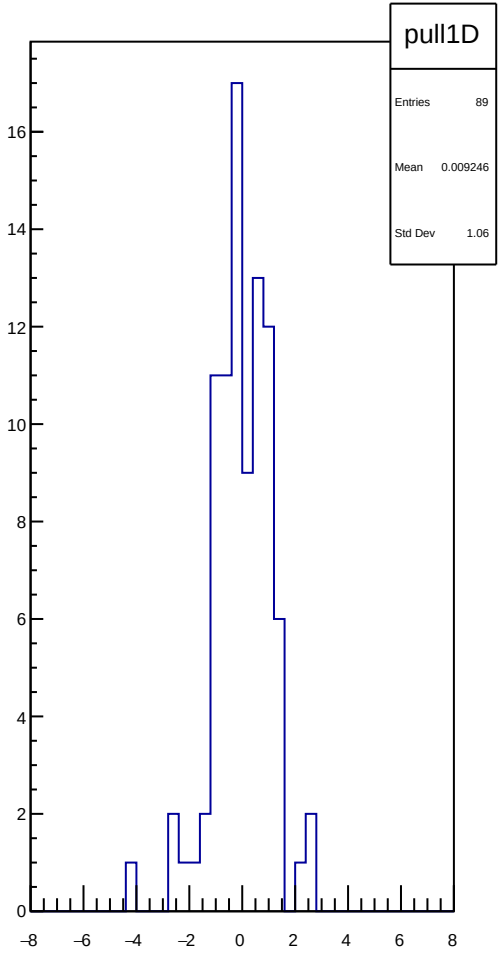

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.405e+05 / 88
p0 87.3 ± 0.07808
800
700
600
500
400
300
200
100

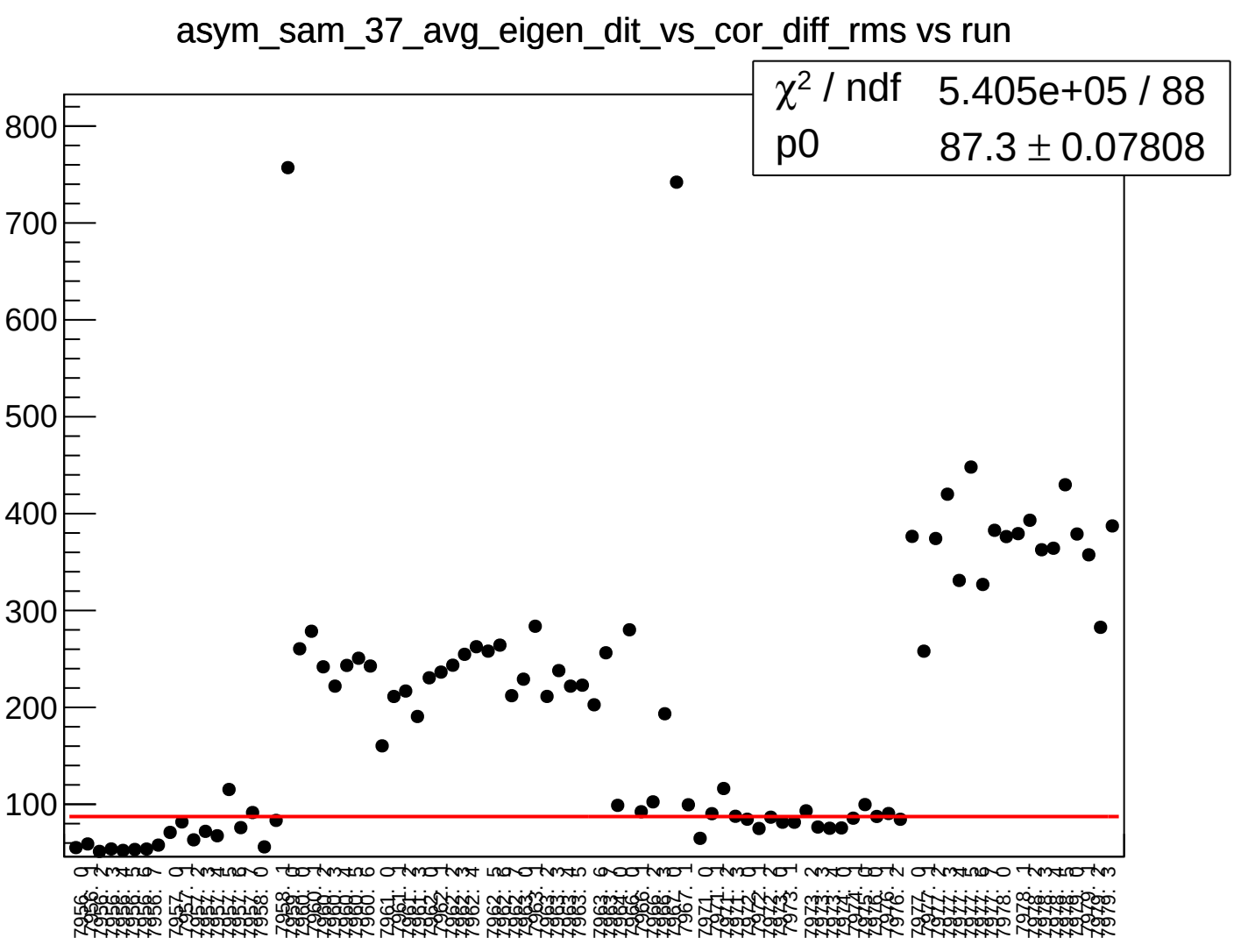

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.8 / 88
p0 −2.807e−06 ± 3.856e−06
pull
Entries 89
Mean 90.18
Std Dev 0

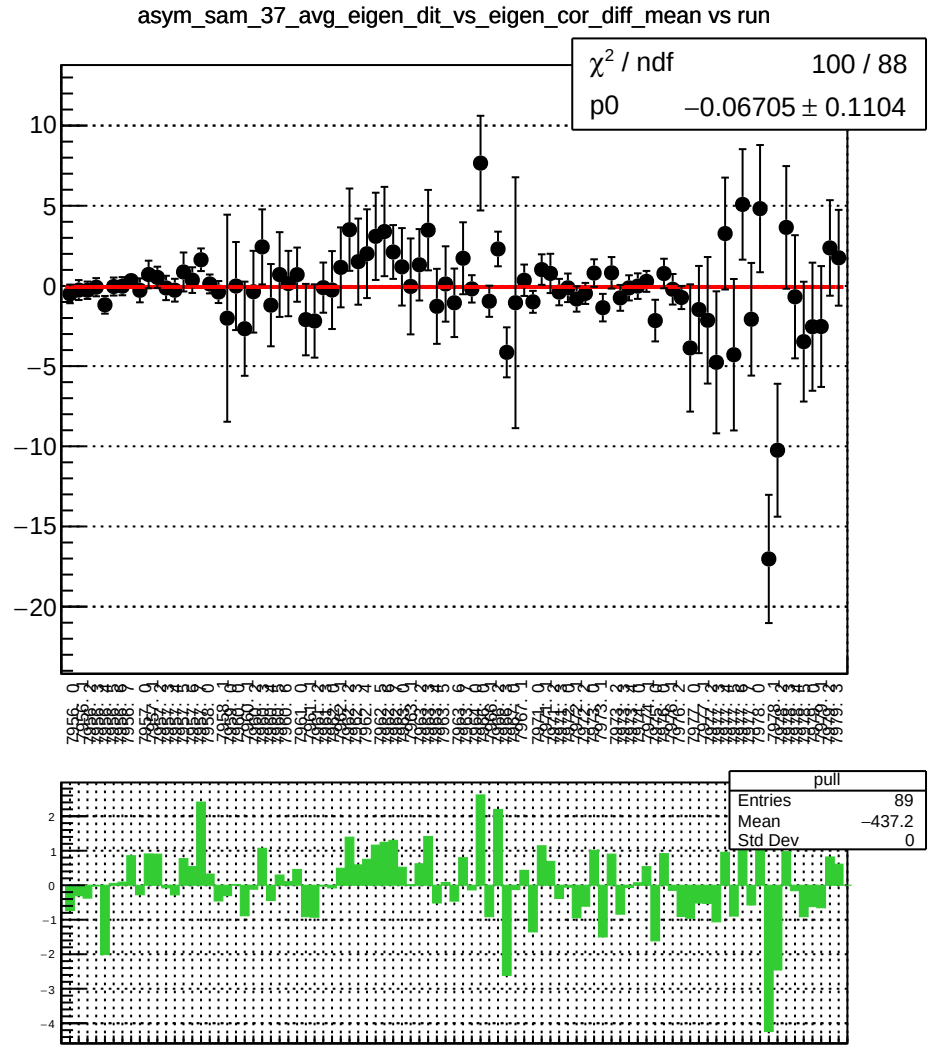

pull1D
Entries 89
Mean −0.04495
Std Dev 1.063

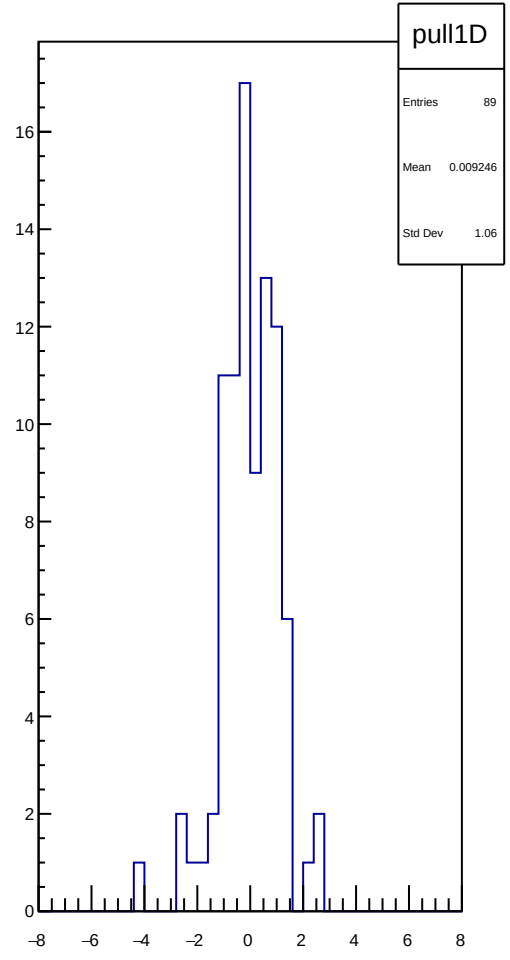

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.039e+05 / 88
p0 0.003541 ± 2.727e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

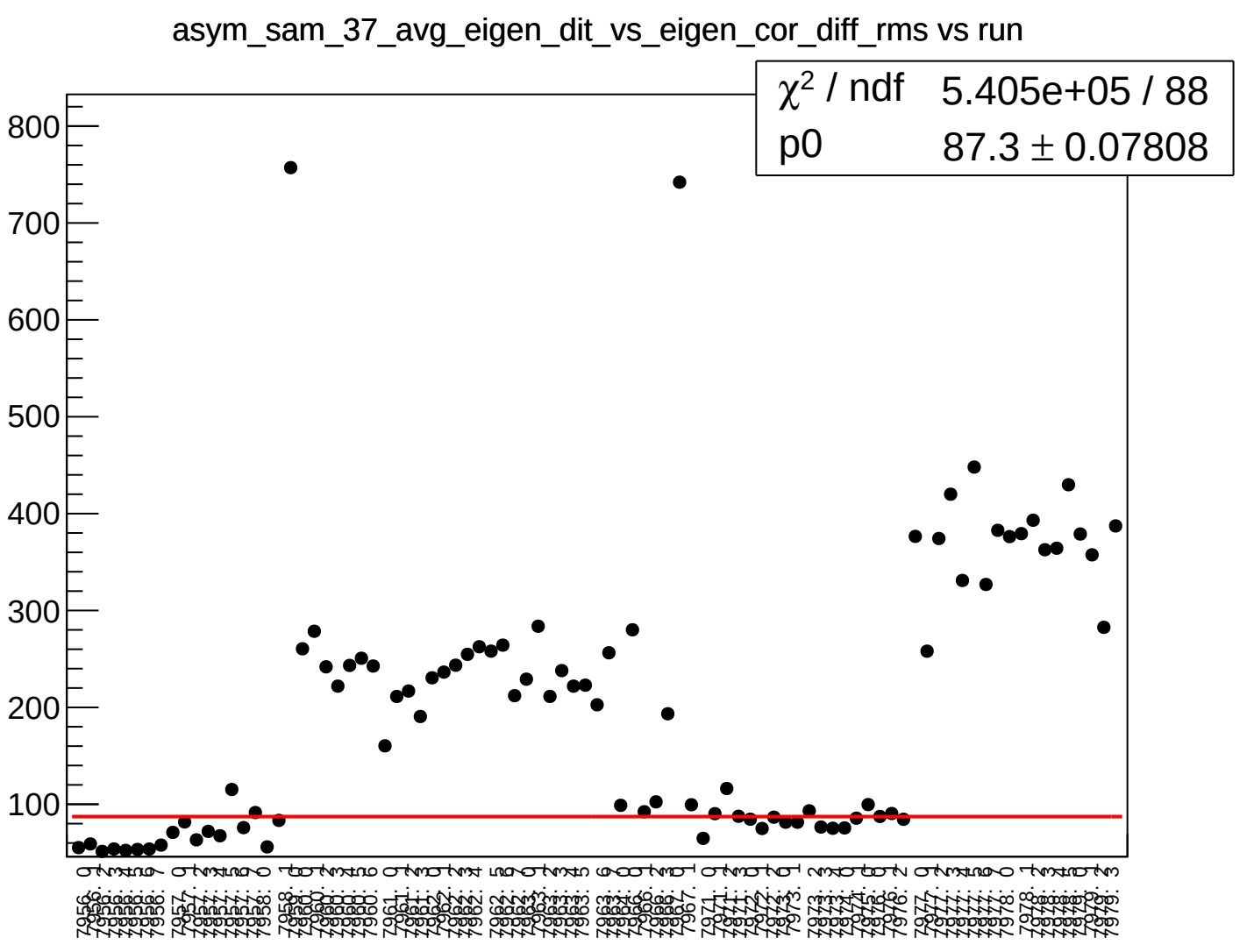

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100 / 88
p0 −0.06705 ± 0.1104
pull
Entries 89
Mean −437.2
Std Dev 0

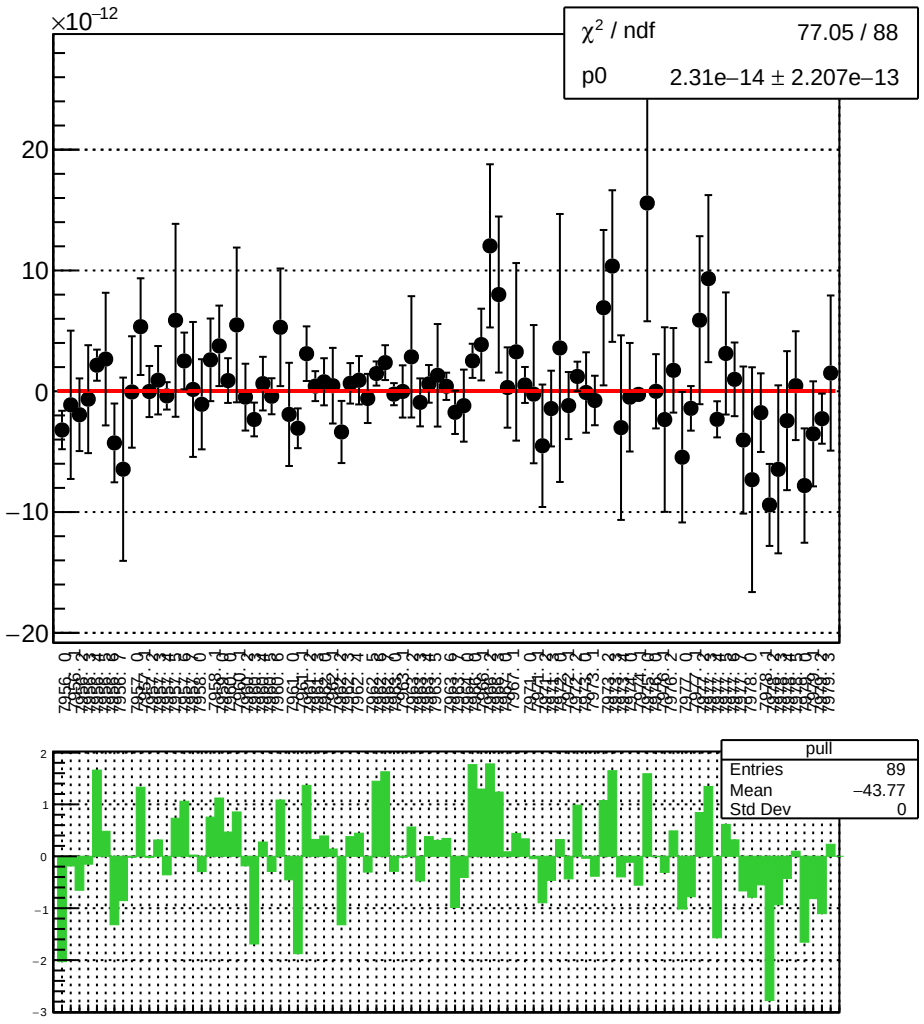

pull1D
Entries 89
Mean 0.009246
Std Dev 1.06

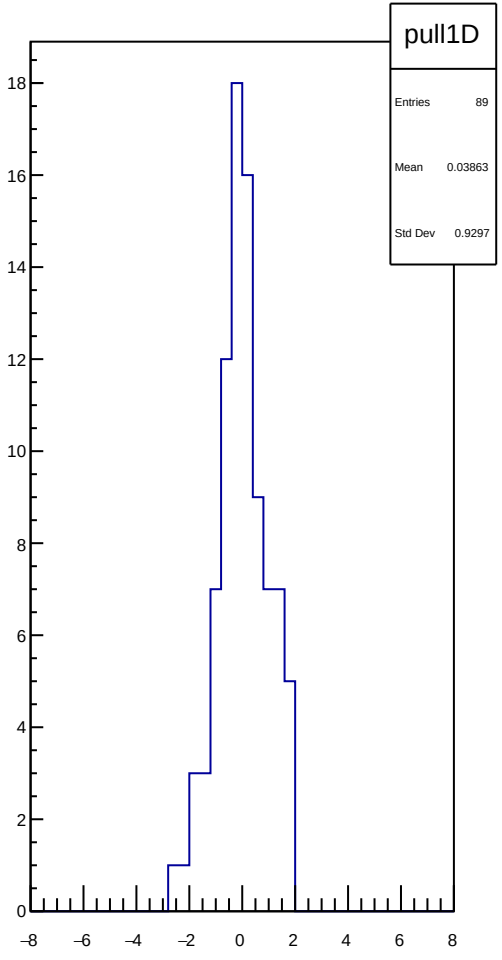

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.405e+05 / 88
p0 87.3 ± 0.07808
800
700
600
500
400
300
200
100

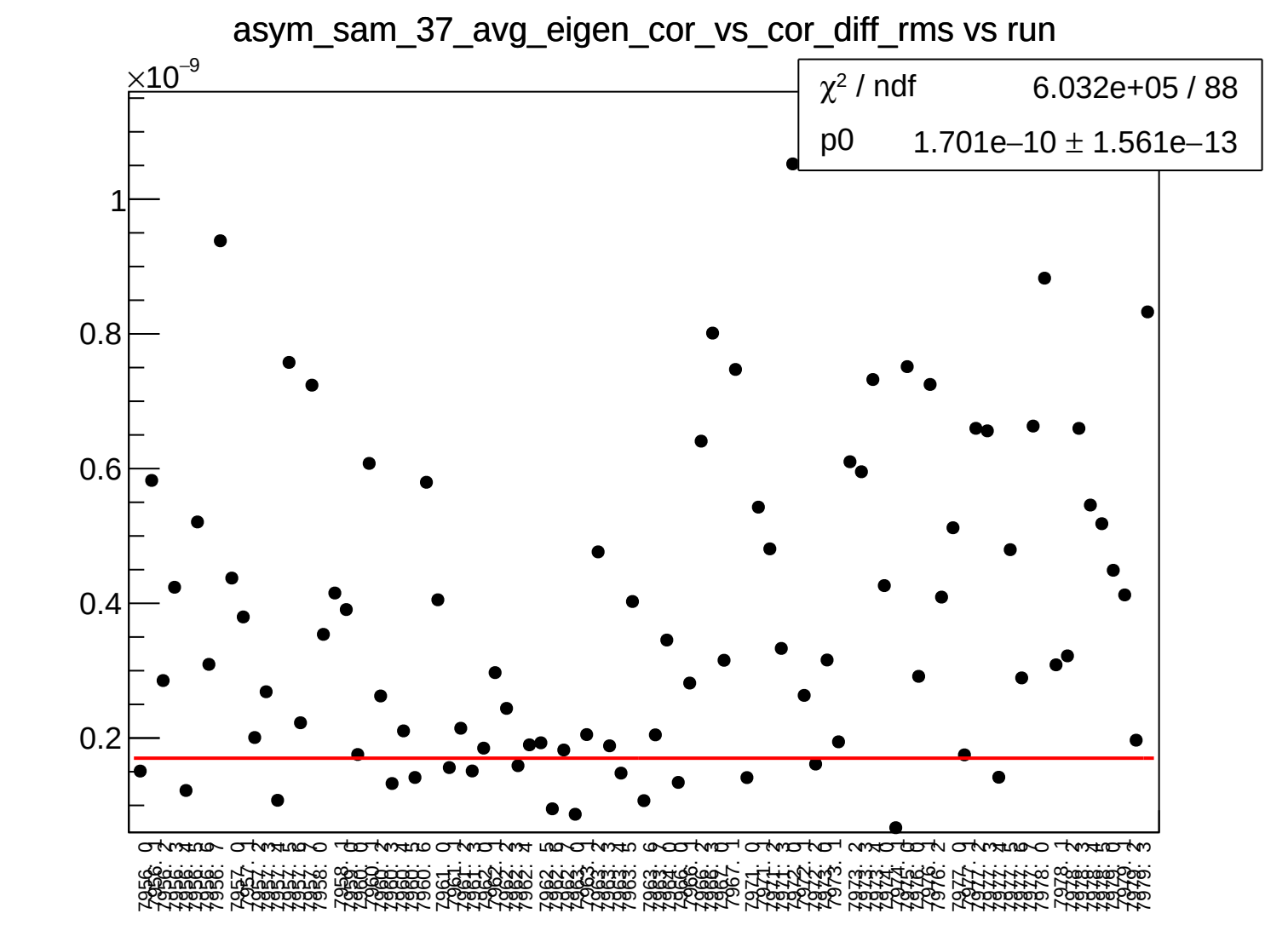

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100 / 88
p0 −0.06705 ± 0.1104
pull
Entries 89
Mean −437.2
Std Dev 0

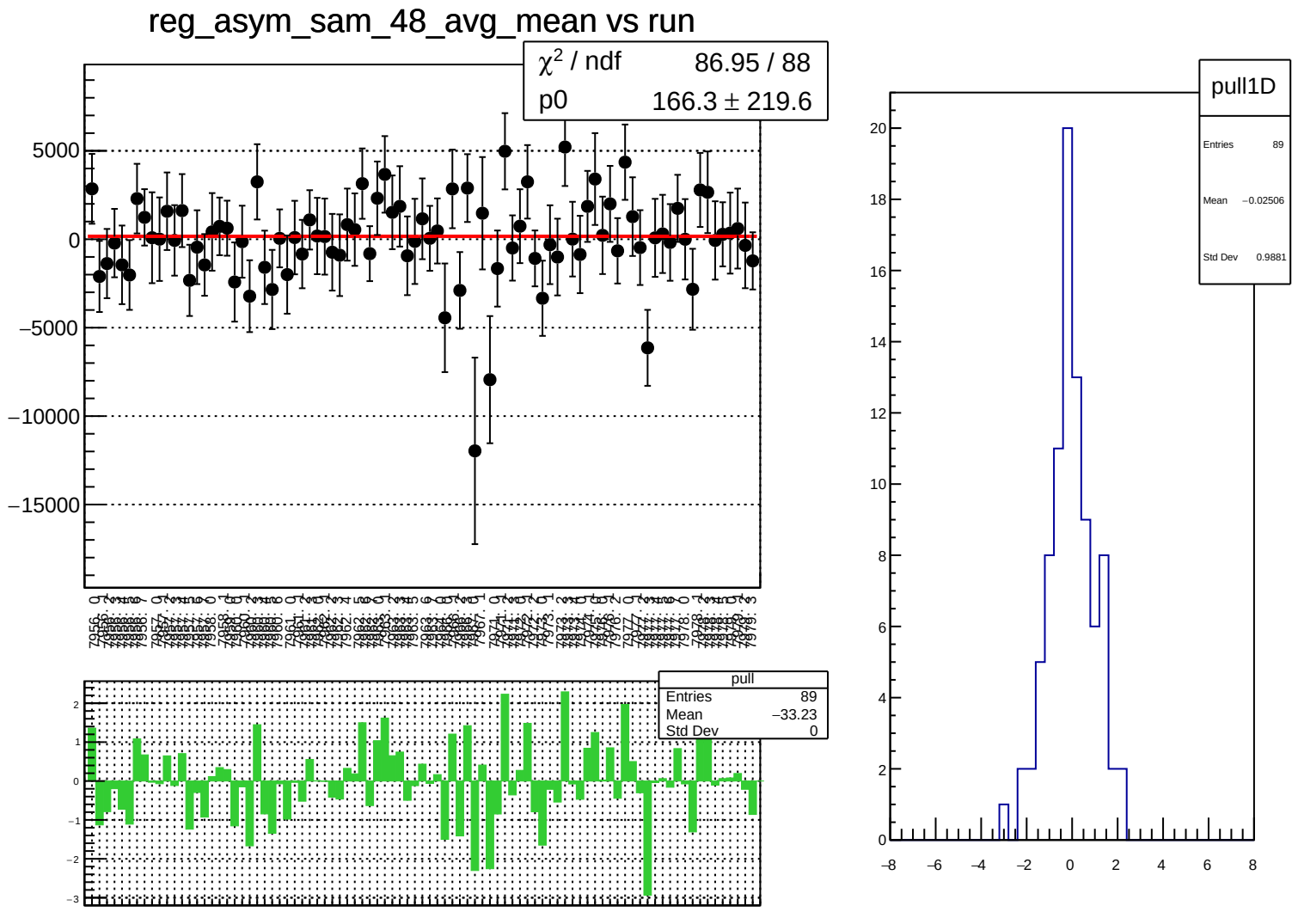

pull1D
Entries 89
Mean 0.009246
Std Dev 1.06

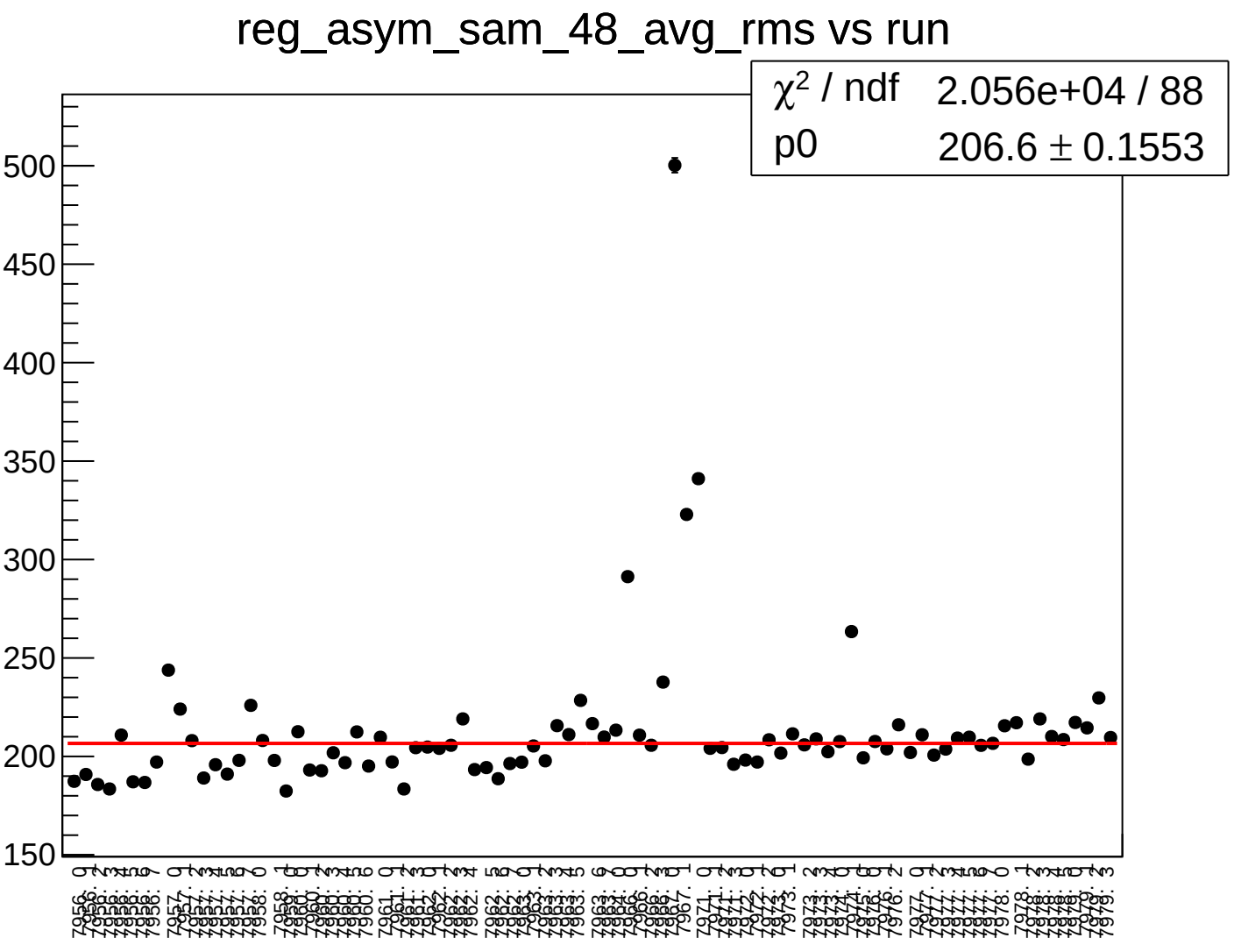

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.405e+05 / 88
p0 87.3 ± 0.07808
800
700
600
500
400
300
200
100

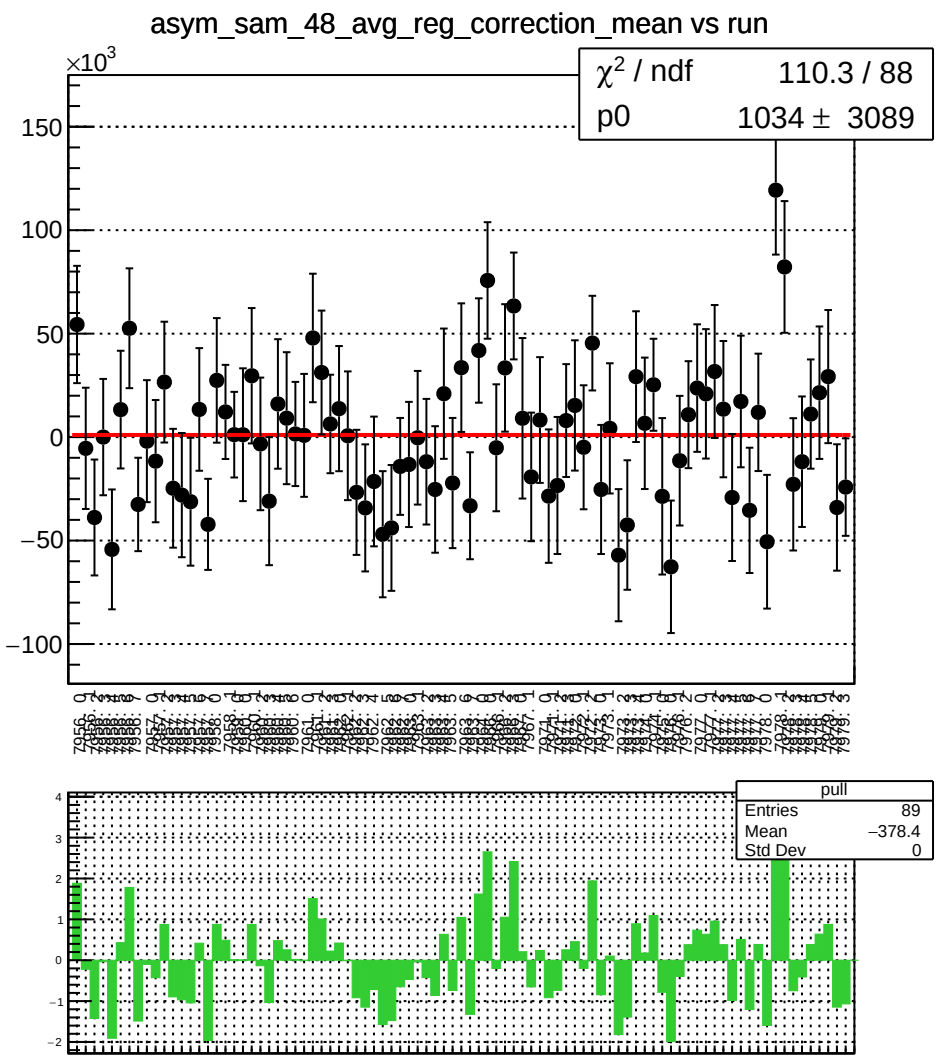

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.05 / 88
p0 2.31e−14 ± 2.207e−13
20
10
0
−10
−20
pull
Entries 89
Mean −43.77
Std Dev 0
2
1
0
−1
−2
−3

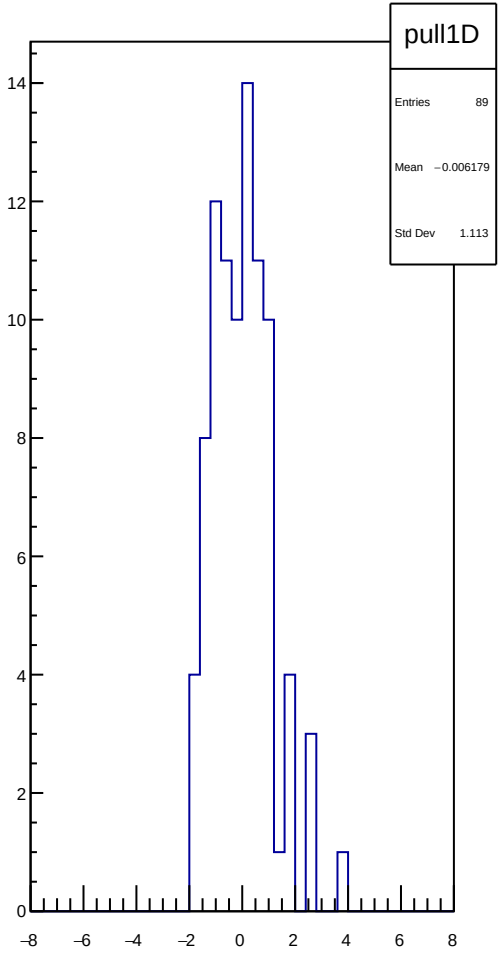

pull1D
Entries 89
Mean 0.03863
Std Dev 0.9297
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

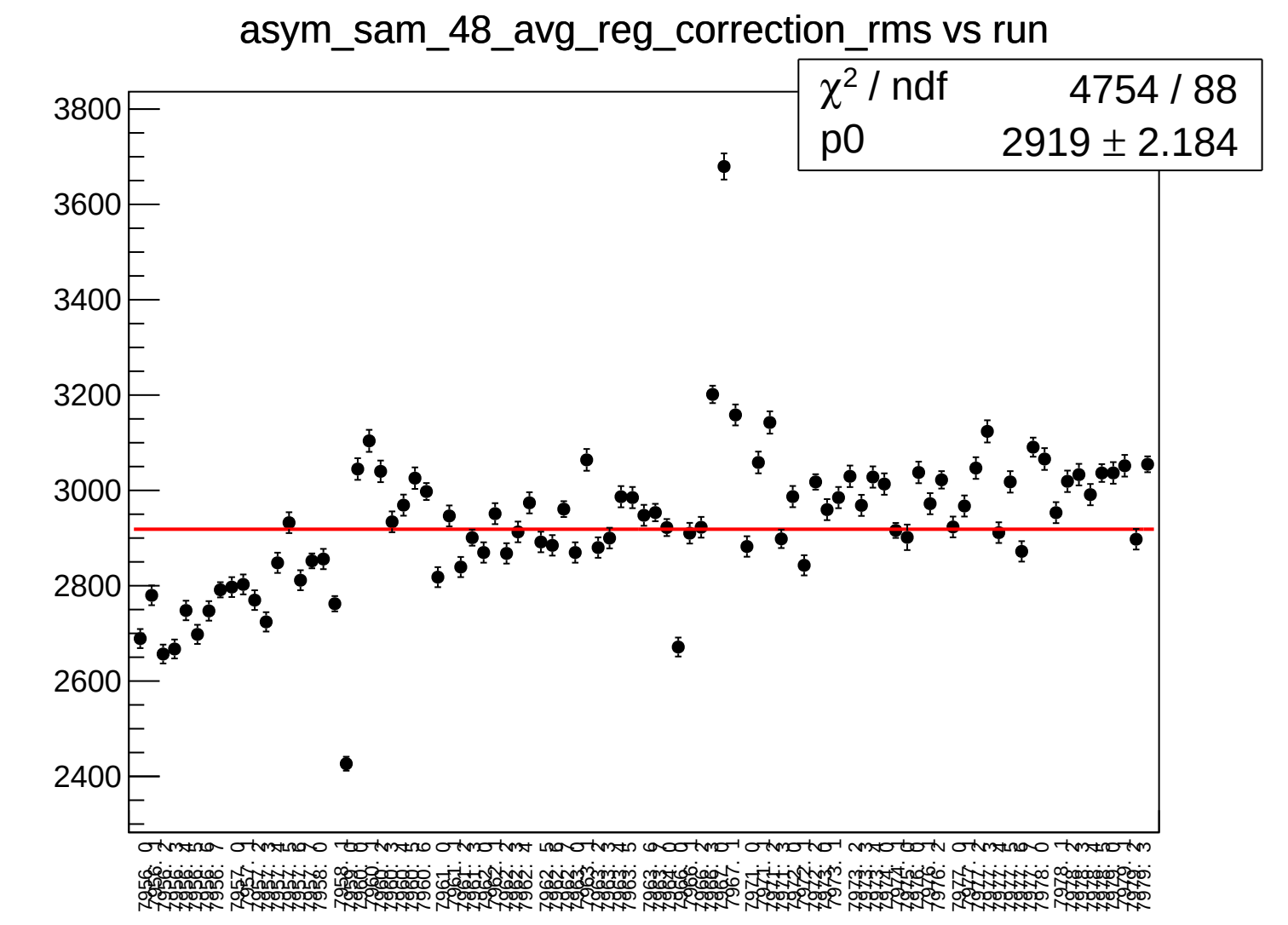

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.032e+05 / 88
p0 1.701e−10 ± 1.561e−13
1
0.8
0.6
0.4
0.2

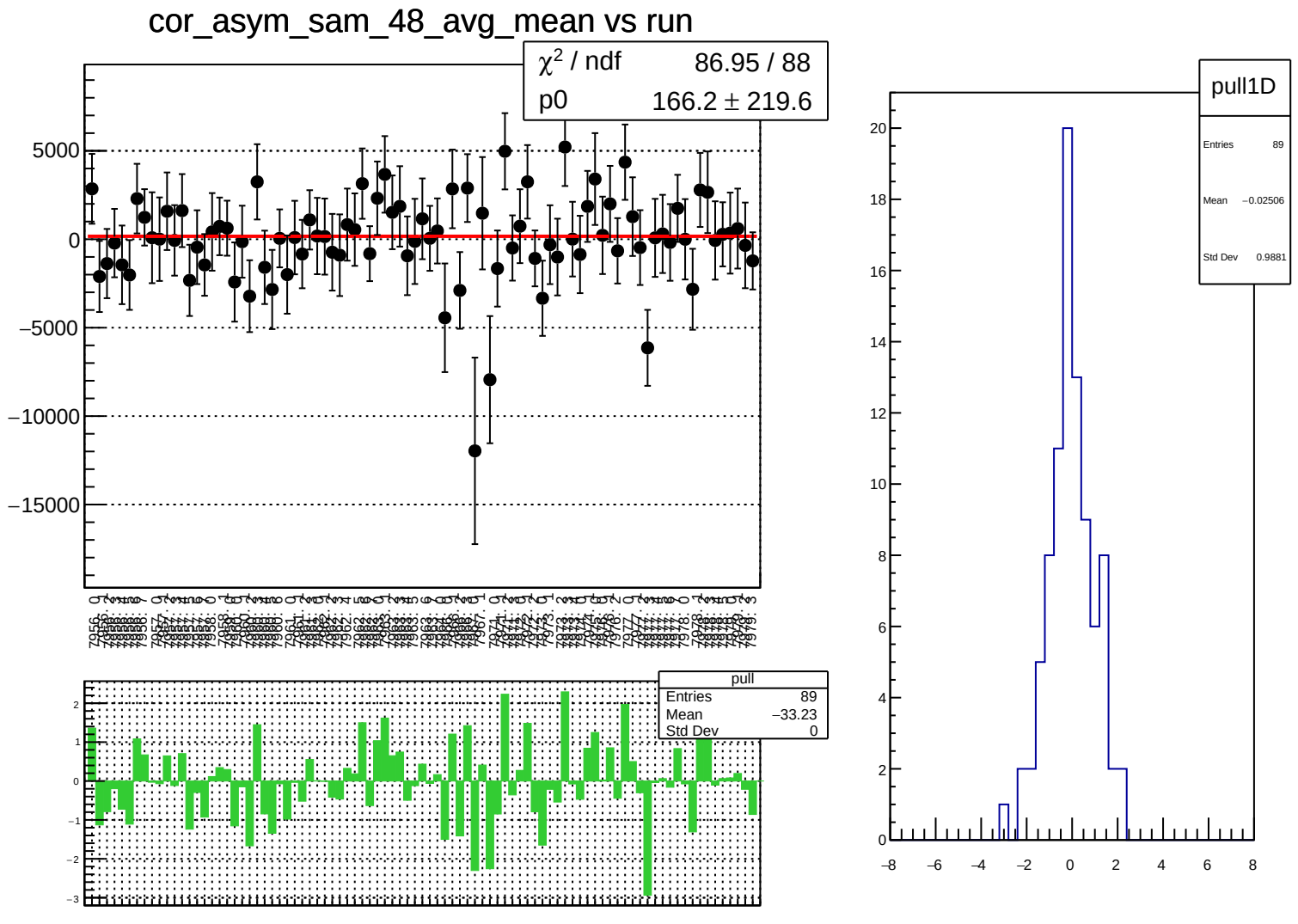

reg_asym_sam_48_avg_mean vs run
χ² / ndf 86.95 / 88
p0 166.3 ± 219.6
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −33.23
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.02506
Std Dev 0.9881
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

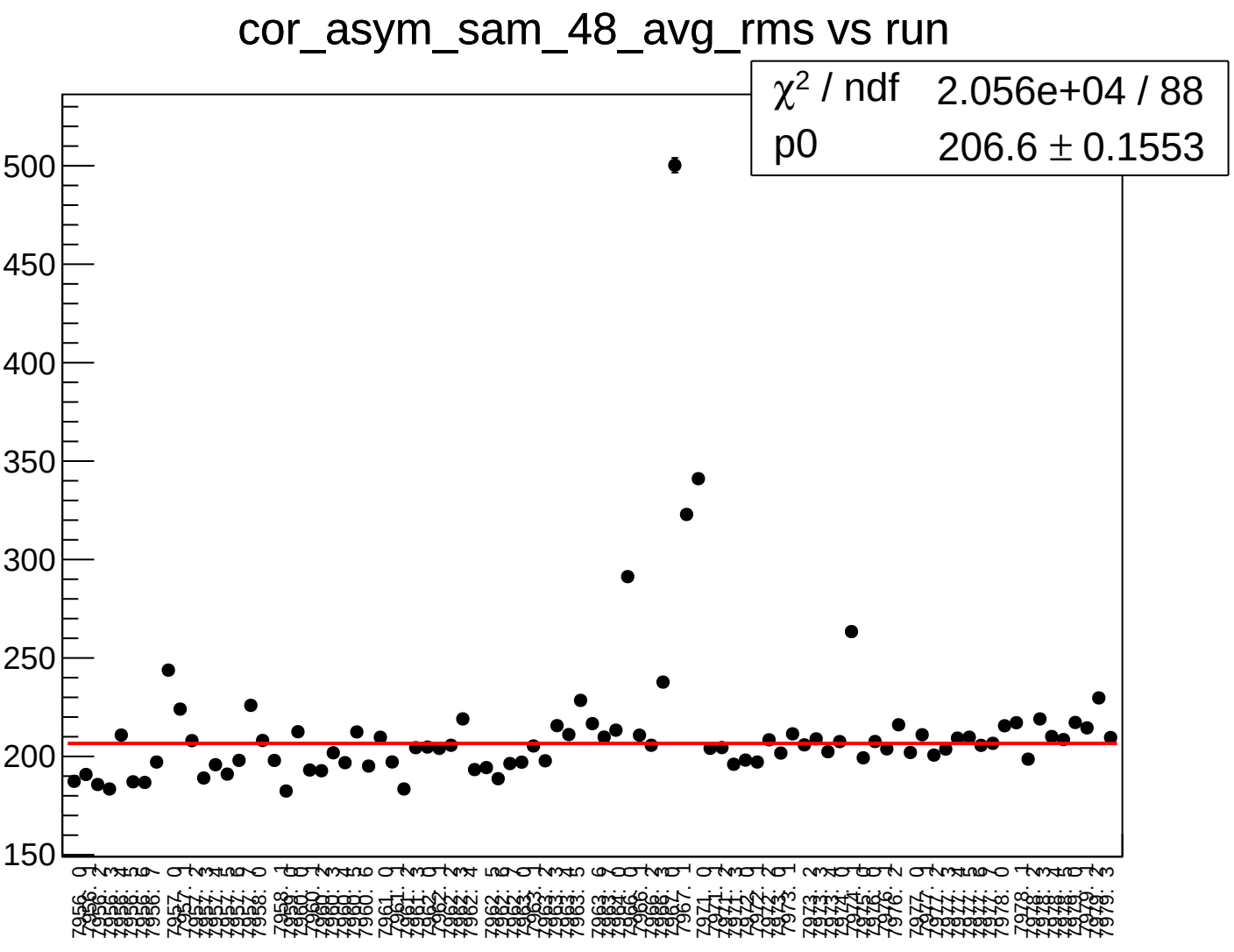

reg_asym_sam_48_avg_rms vs run
χ² / ndf 2.056e+04 / 88
p0 206.6 ± 0.1553
500
450
400
350
300
250
200
150

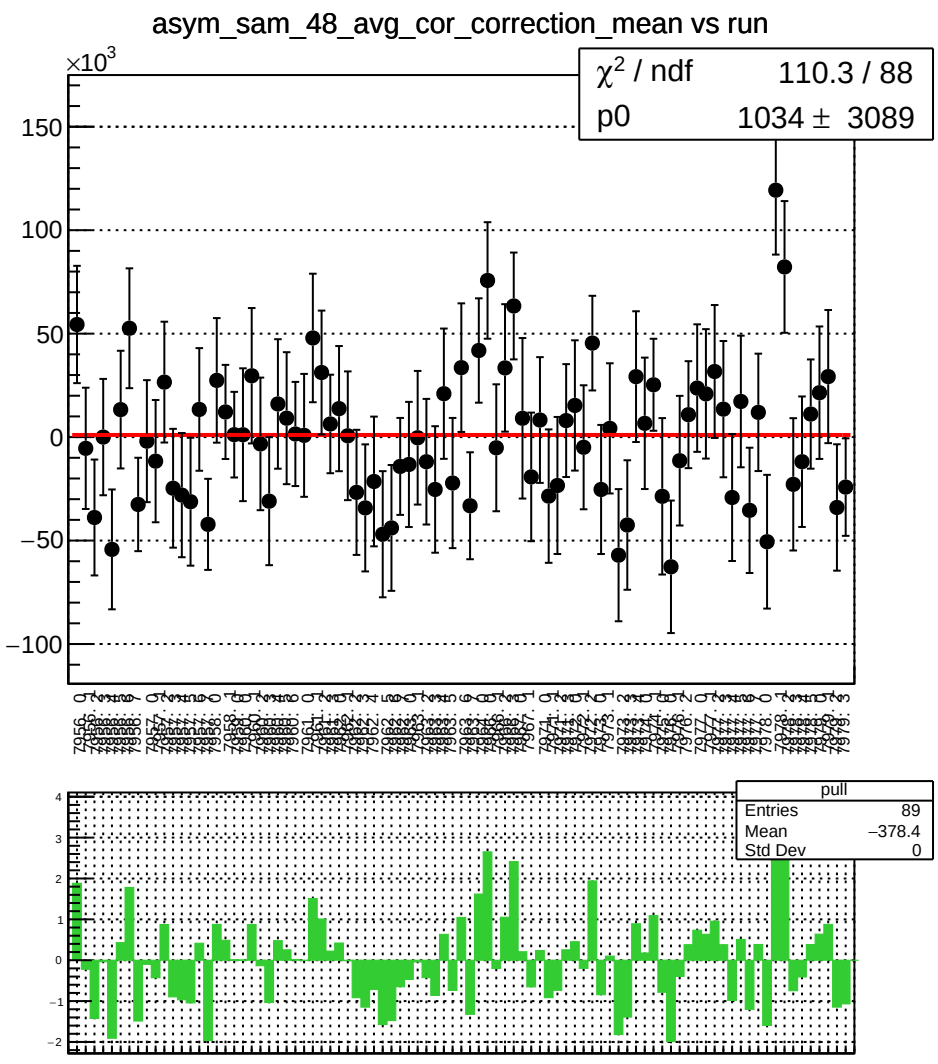

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 110.3 / 88
p0 1034 ± 3089
150
100
50
0
−50
−100
pull
Entries 89
Mean −378.4
Std Dev 0
4
3
2
1
0
−1
−2

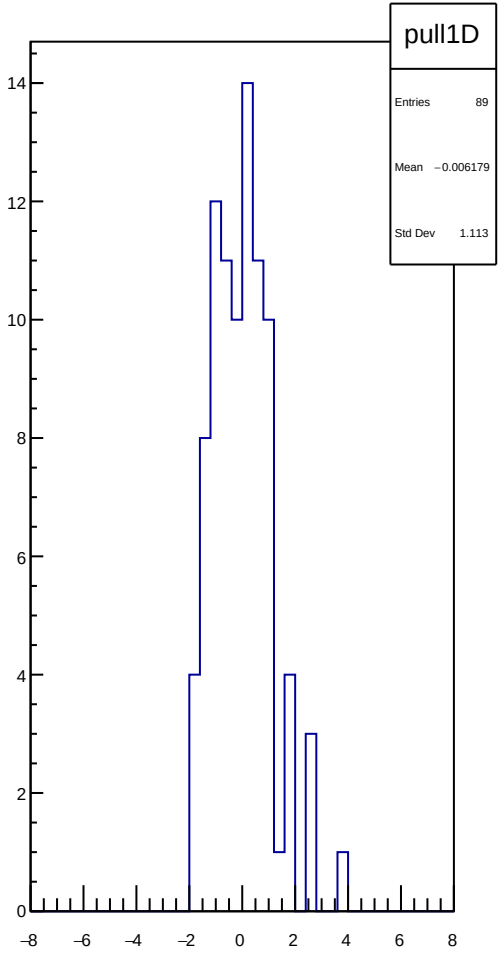

pull1D
Entries 89
Mean −0.006179
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

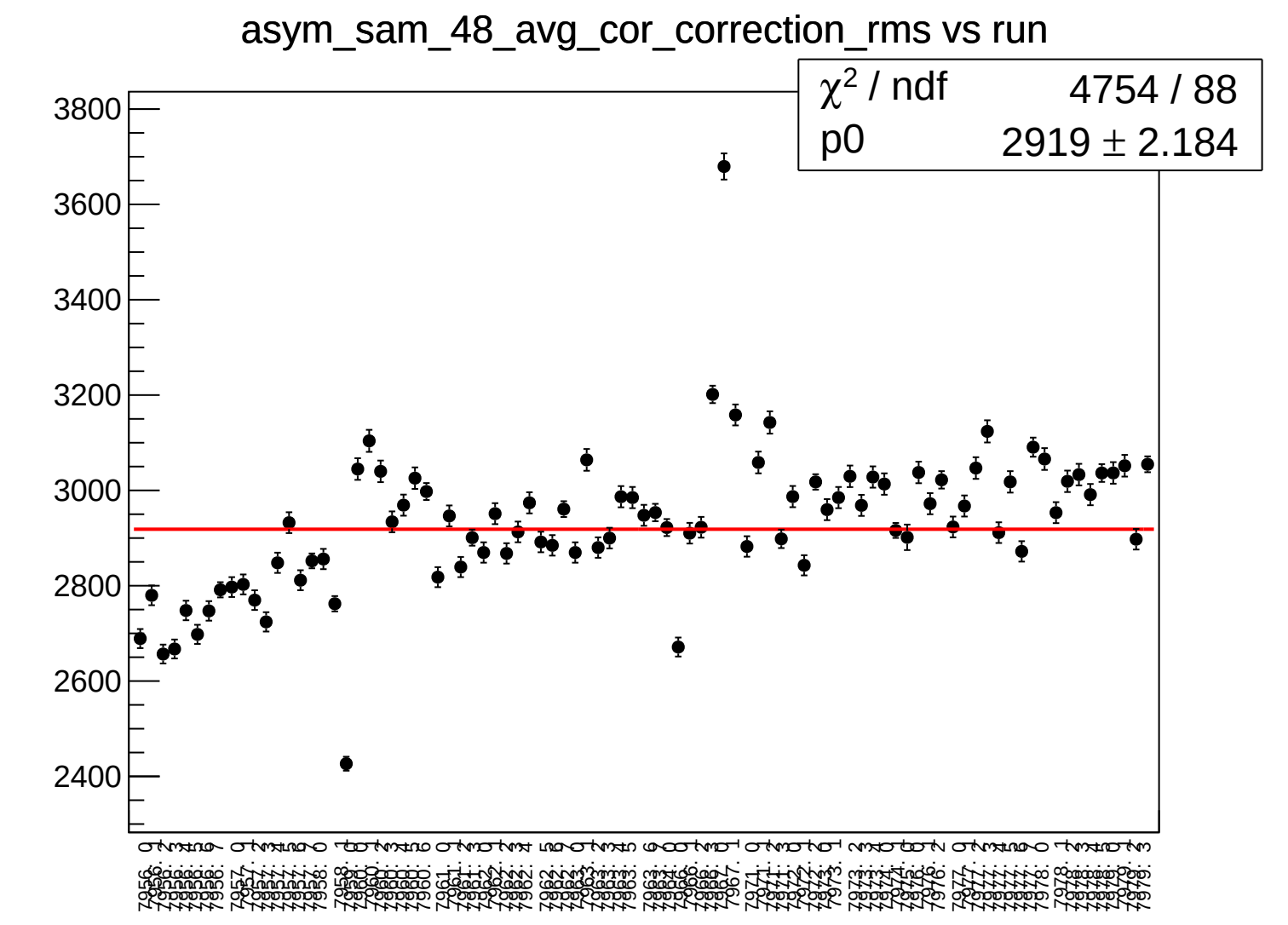

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 4754 / 88
p0 2919 ± 2.184
3800
3600
3400
3200
3000
2800
2600
2400

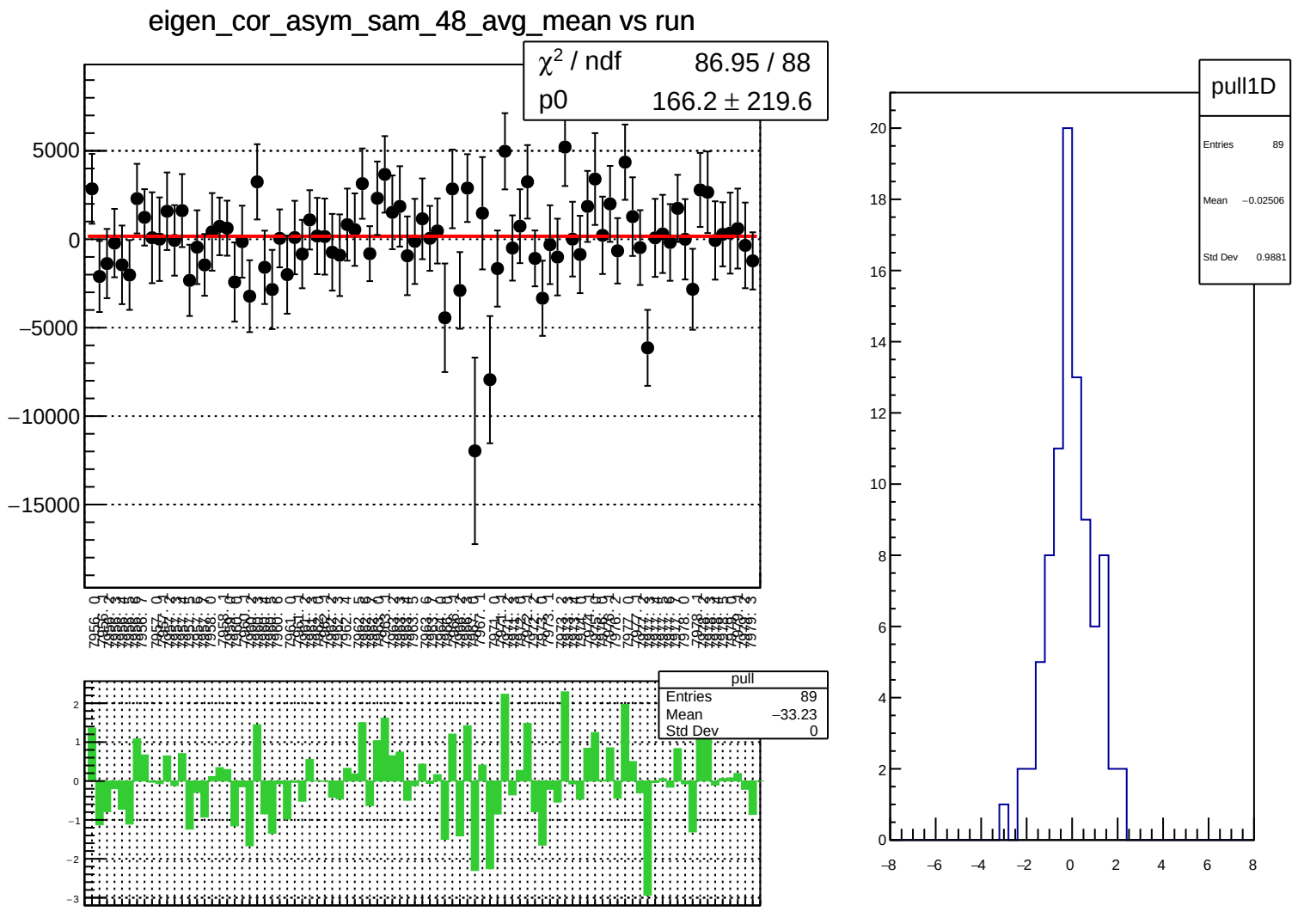

cor_asym_sam_48_avg_mean vs run
χ² / ndf 86.95 / 88
p0 166.2 ± 219.6
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −33.23
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.02506
Std Dev 0.9881
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

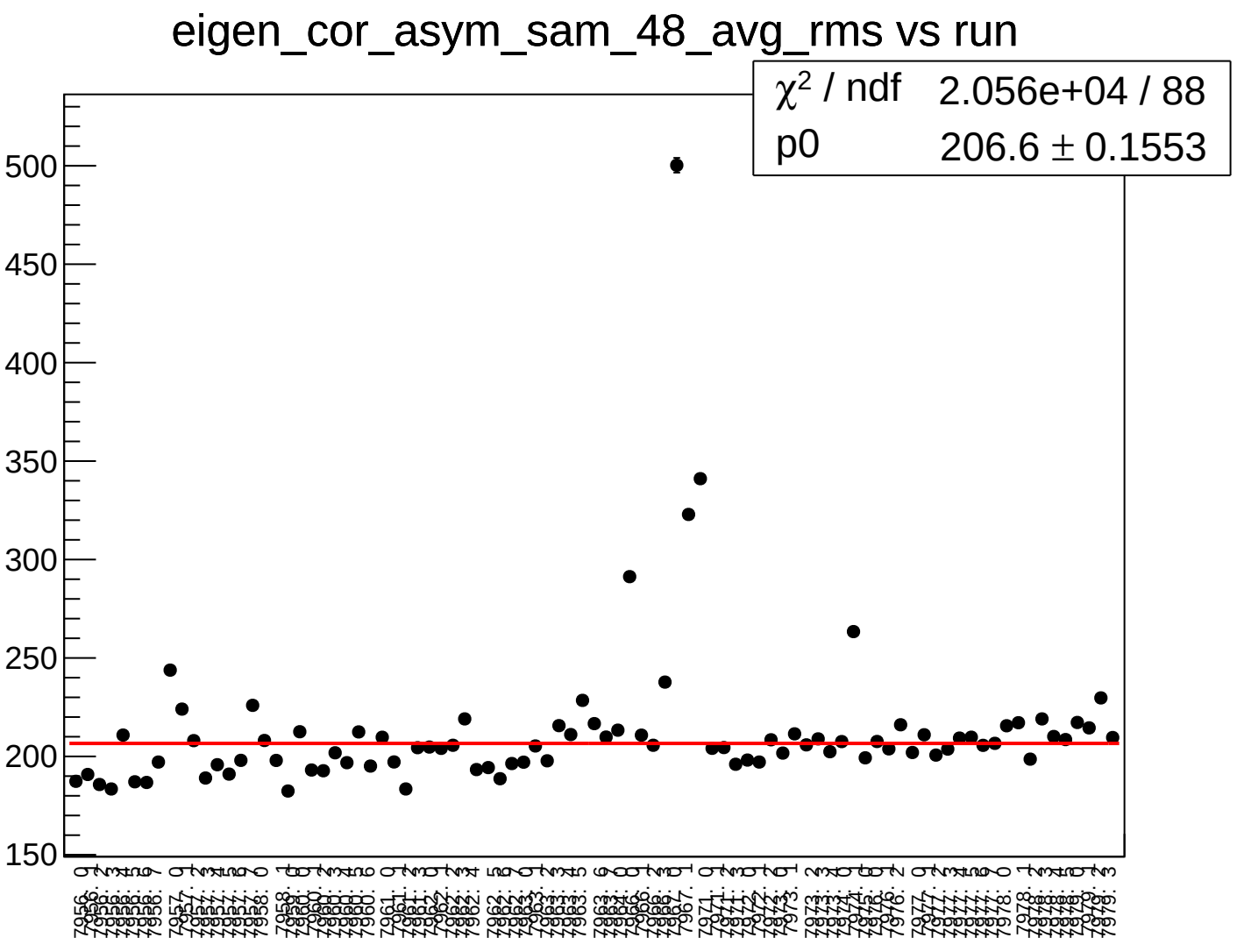

cor_asym_sam_48_avg_rms vs run
$\chi^2$ / ndf 2.056e+04 / 88
p0 206.6 ± 0.1553
500
450
400
350
300
250
200
150

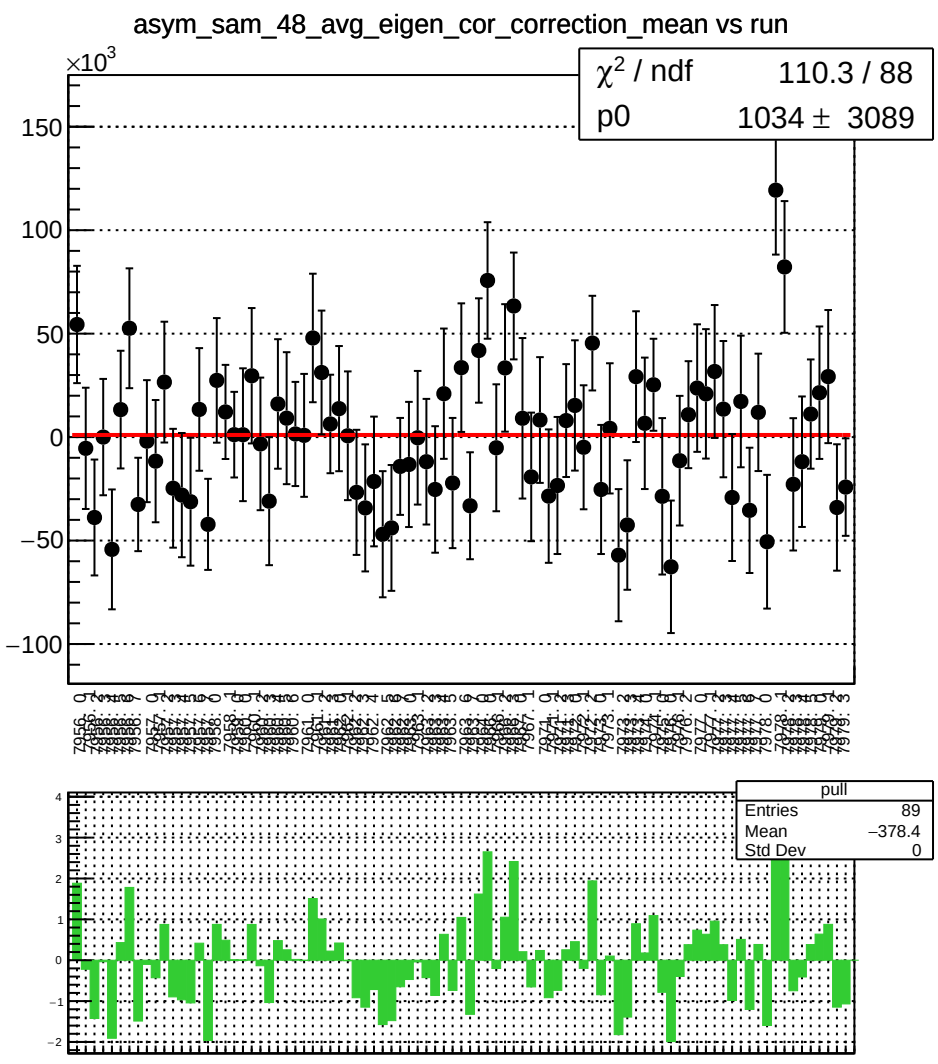

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ² / ndf 110.3 / 88
p0 1034 ± 3089
150
100
50
0
−50
−100
pull
Entries 89
Mean −378.4
Std Dev 0
4
3
2
1
0
−1
−2

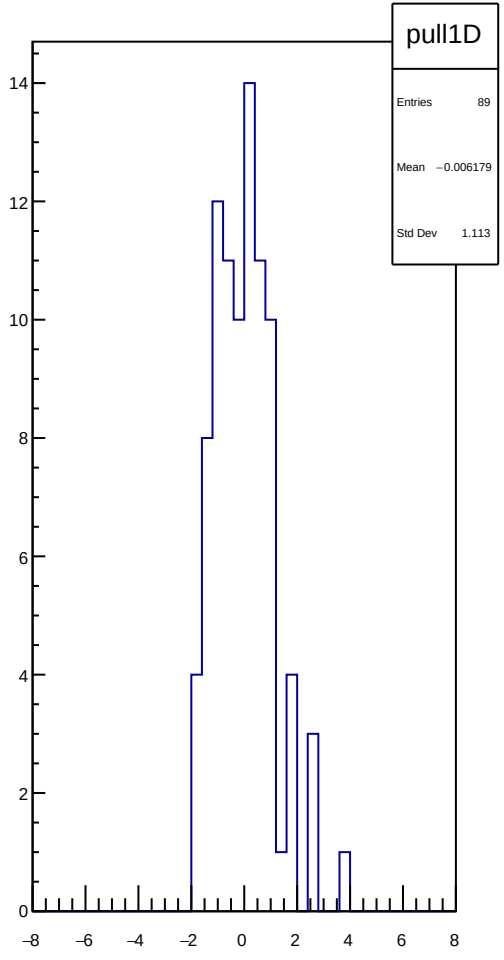

pull1D
Entries 89
Mean −0.006179
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 4754 / 88
p0 2919 ± 2.184
3800
3600
3400
3200
3000
2800
2600
2400


eigen_cor_asym_sam_48_avg_mean vs run
$\chi^2$ / ndf 86.95 / 88
p0 166.2 ± 219.6
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −33.23
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.02506
Std Dev 0.9881
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 2.056e+04 / 88
p0 206.6 ± 0.1553
500
450
400
350
300
250
200
150


asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 110.3 / 88
p0 1034 ± 3089
150
100
50
0
−50
−100
pull
Entries 89
Mean −378.4
Std Dev 0
4
3
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.006179
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
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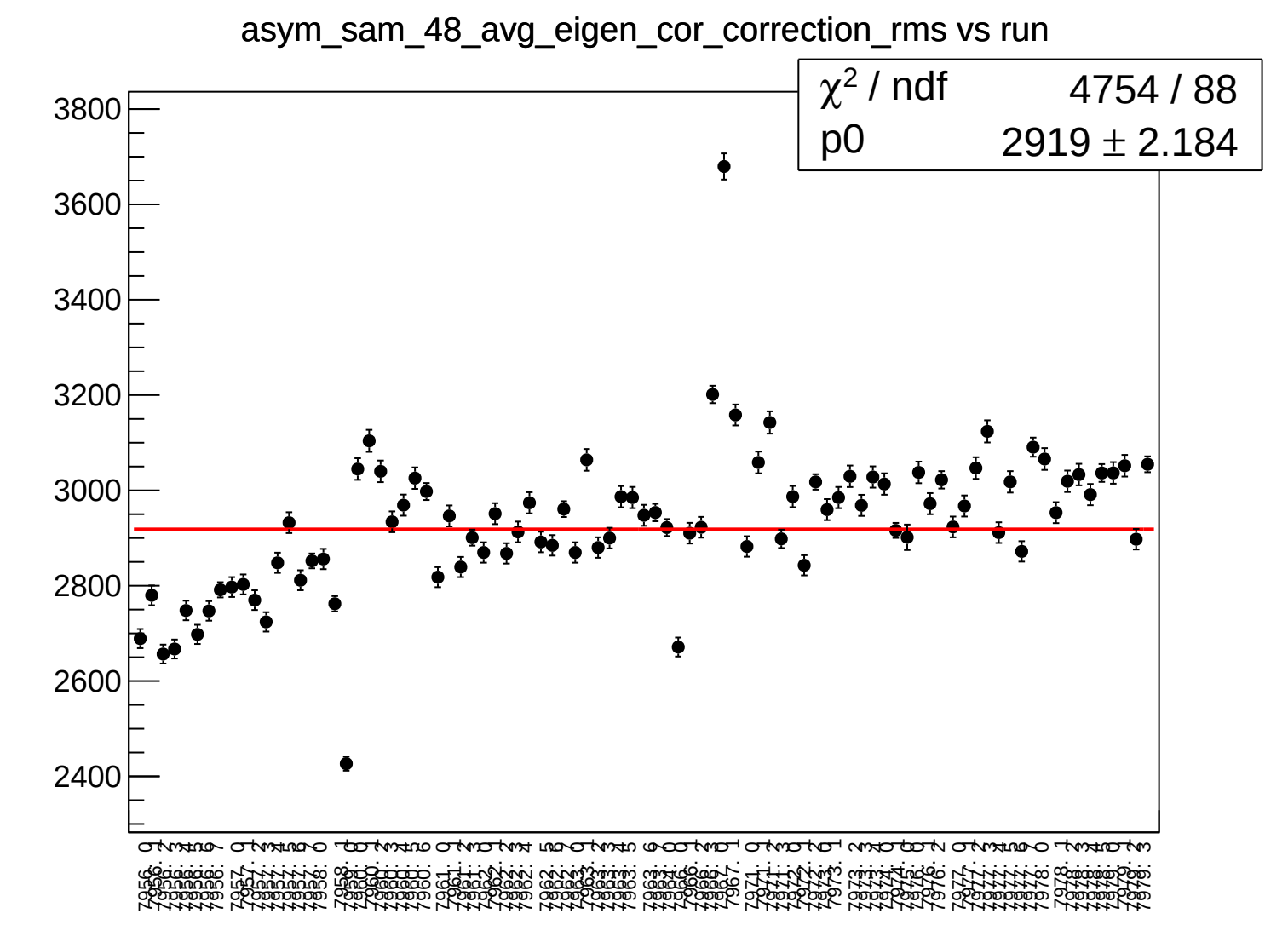
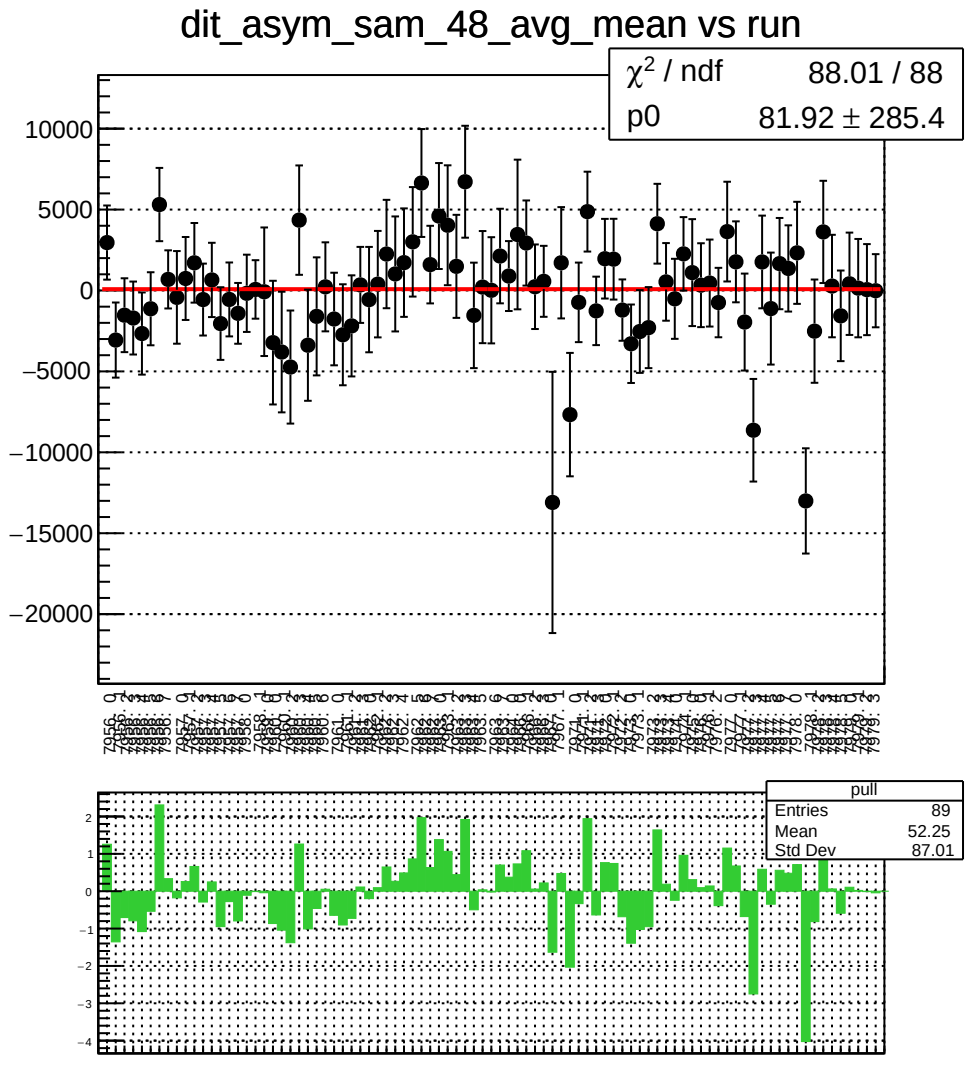
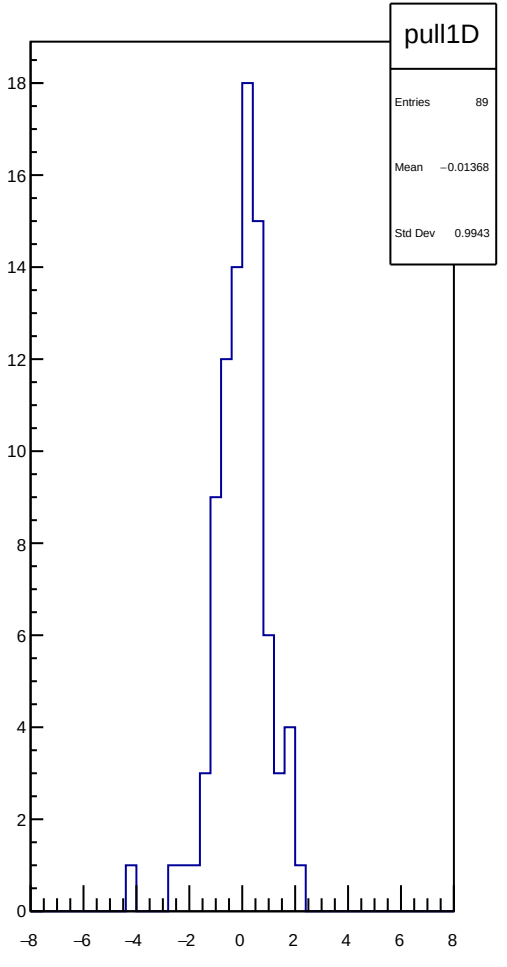
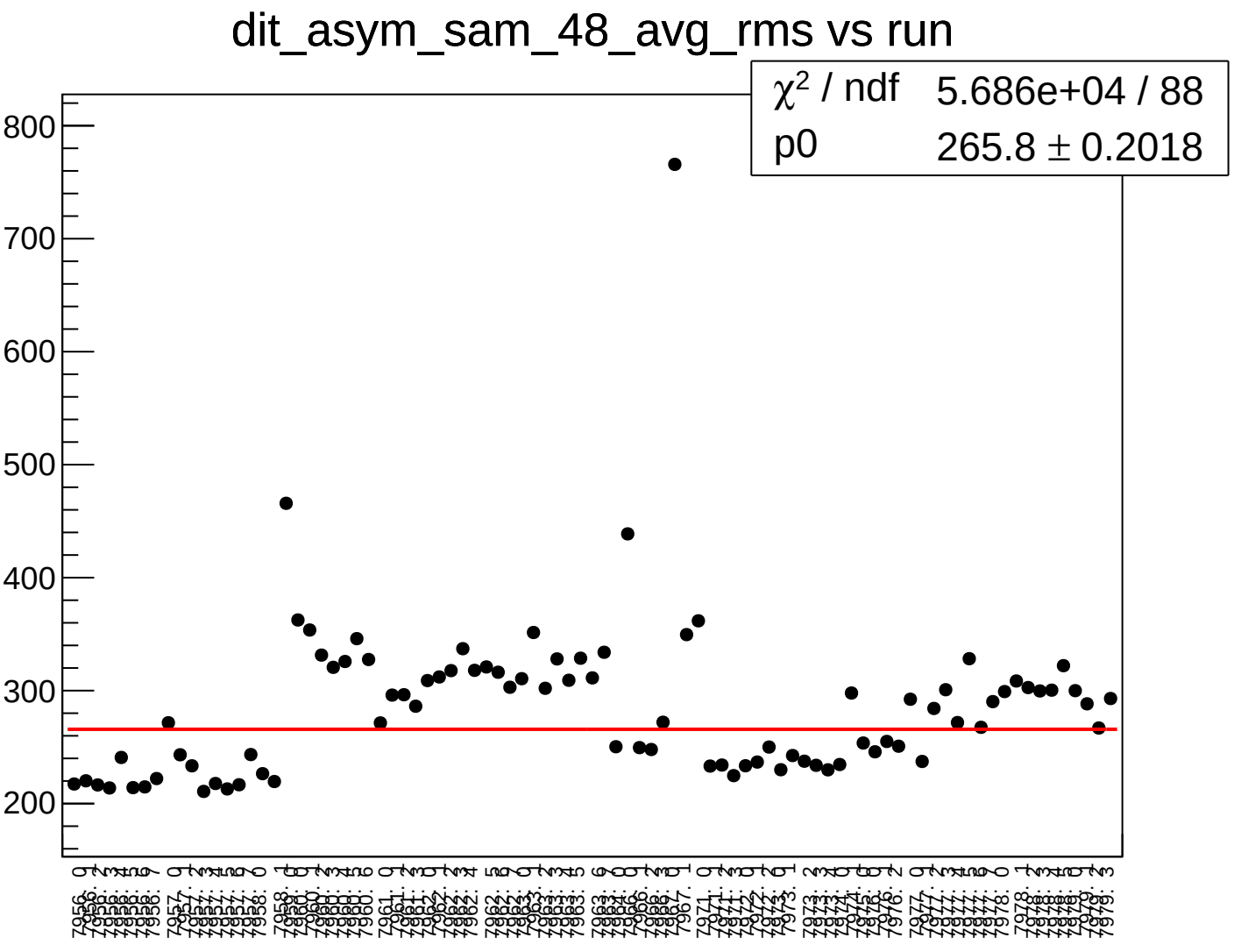
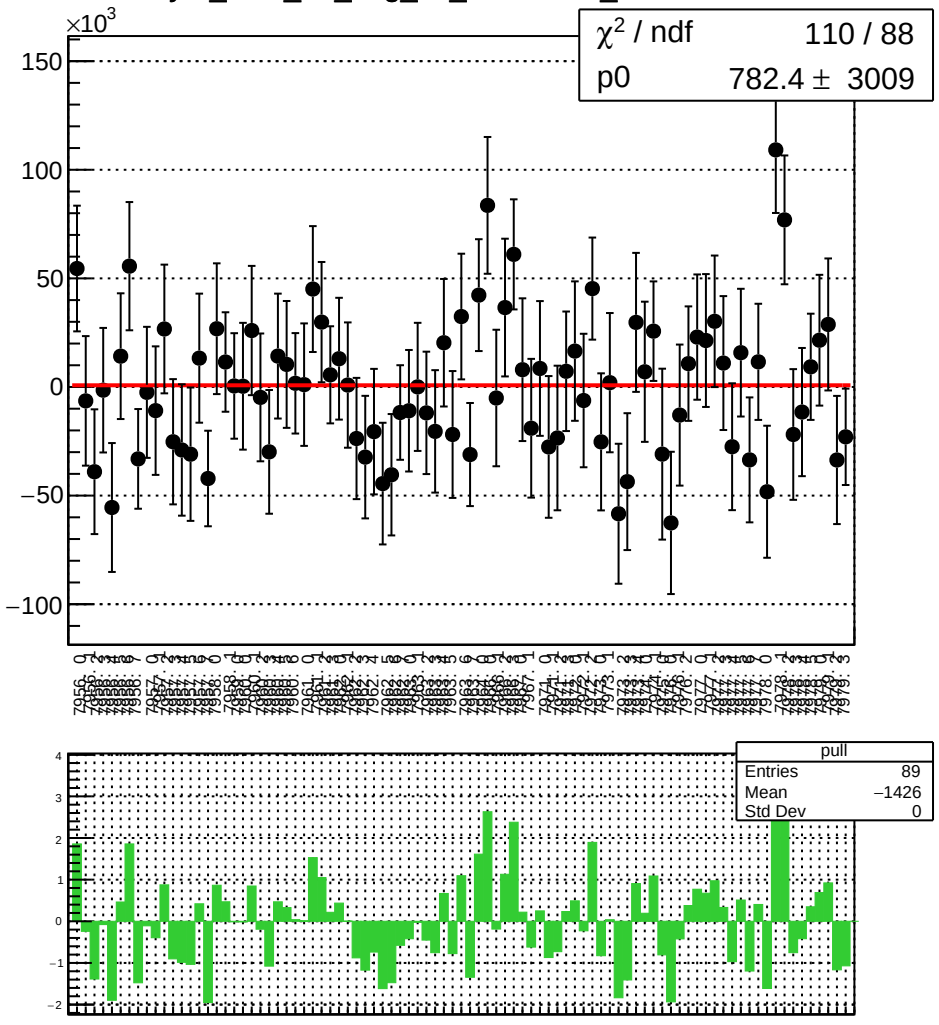
0
2
4
6
8

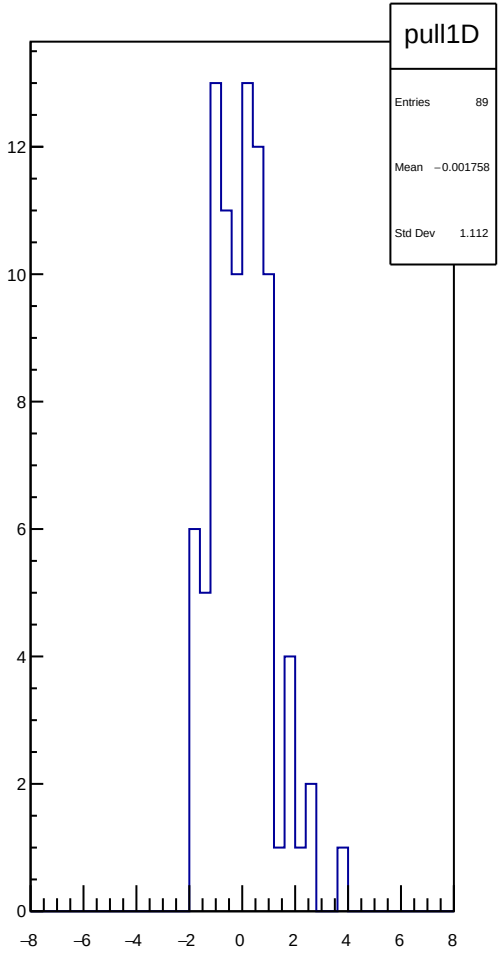

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 4754 / 88
p0 2919 ± 2.184
3800
3600
3400
3200
3000
2800
2600
2400

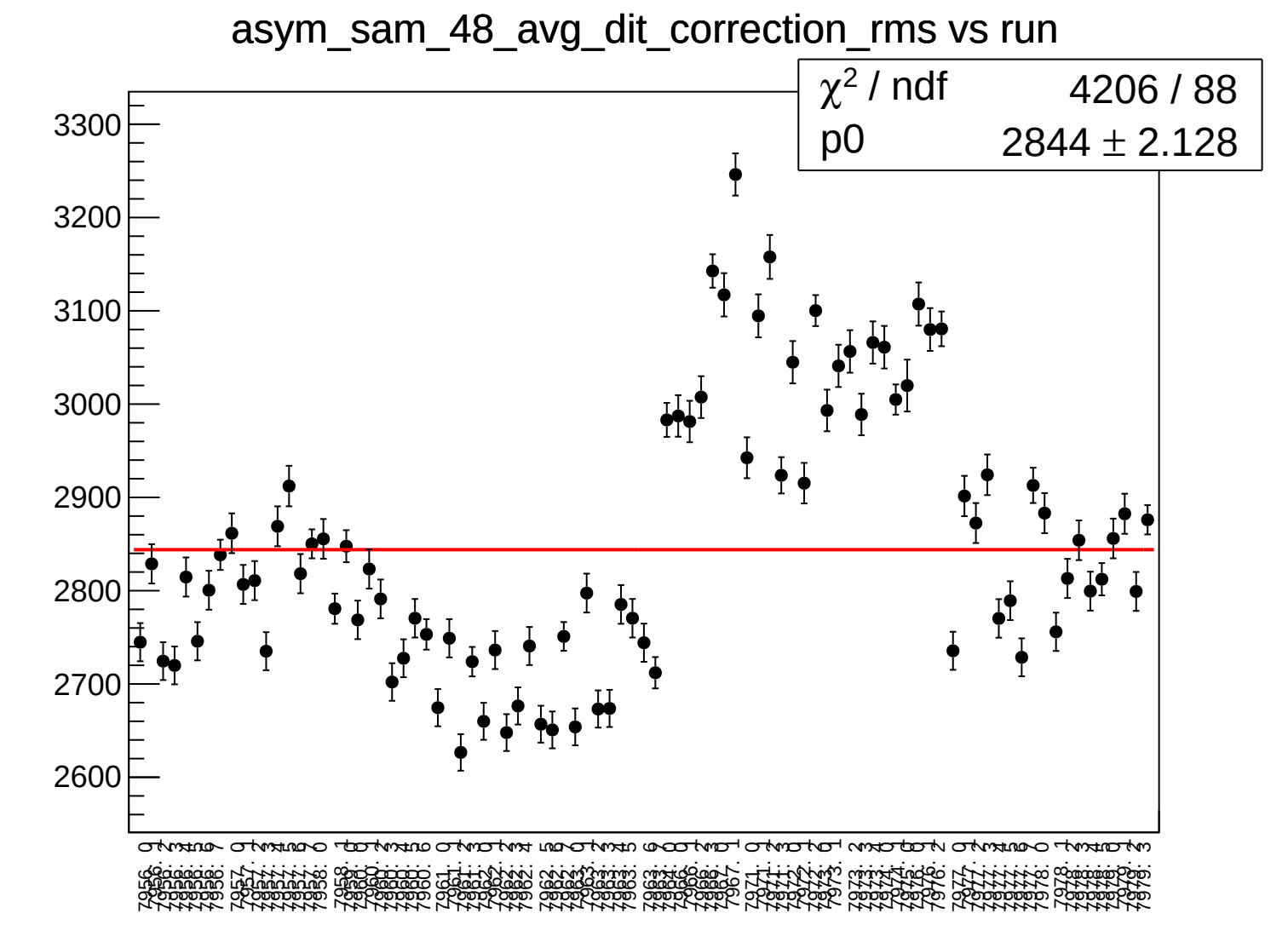

dit_asym_sam_48_avg_mean vs run
$\chi^2$ / ndf 88.01 / 88
p0 81.92 ± 285.4
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 52.25
Std Dev 87.01
2
1
0
−1
−2
−3
−4

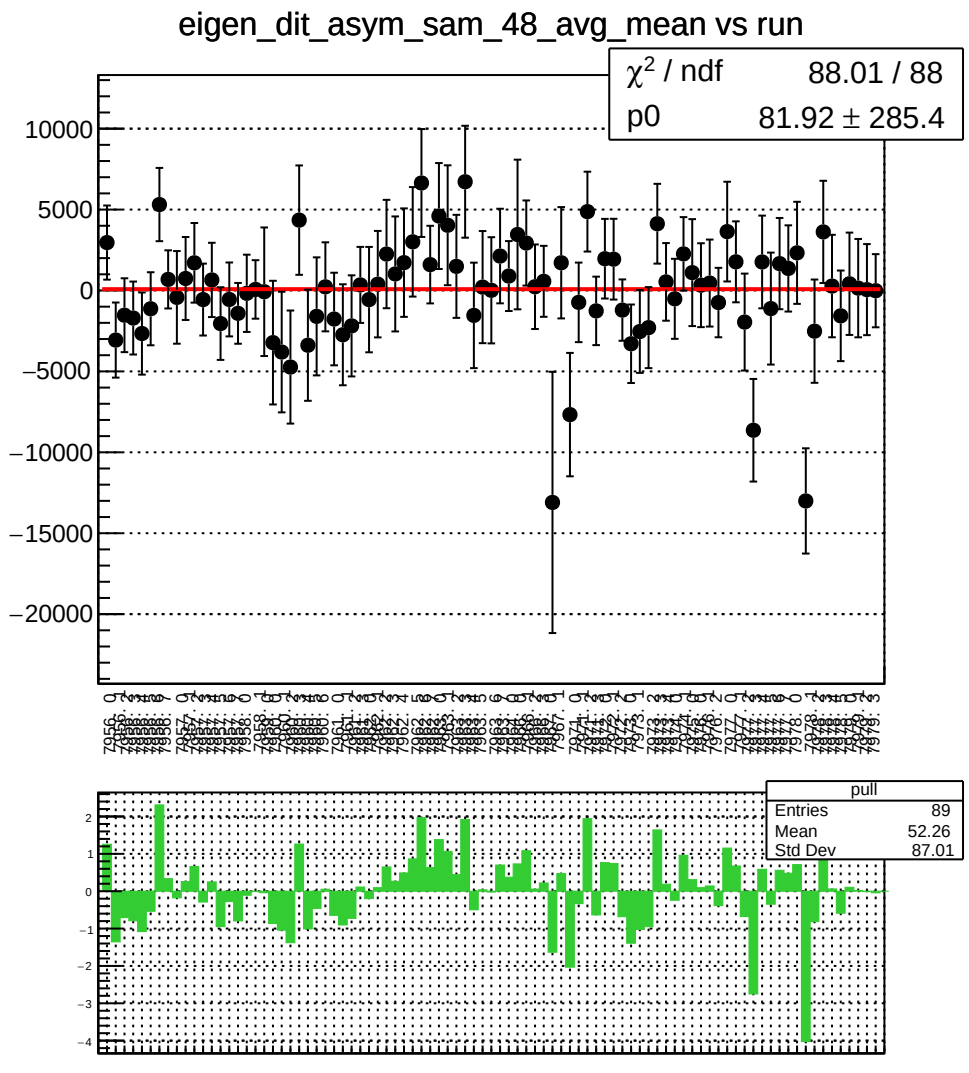

pull1D
Entries 89
Mean −0.01368
Std Dev 0.9943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

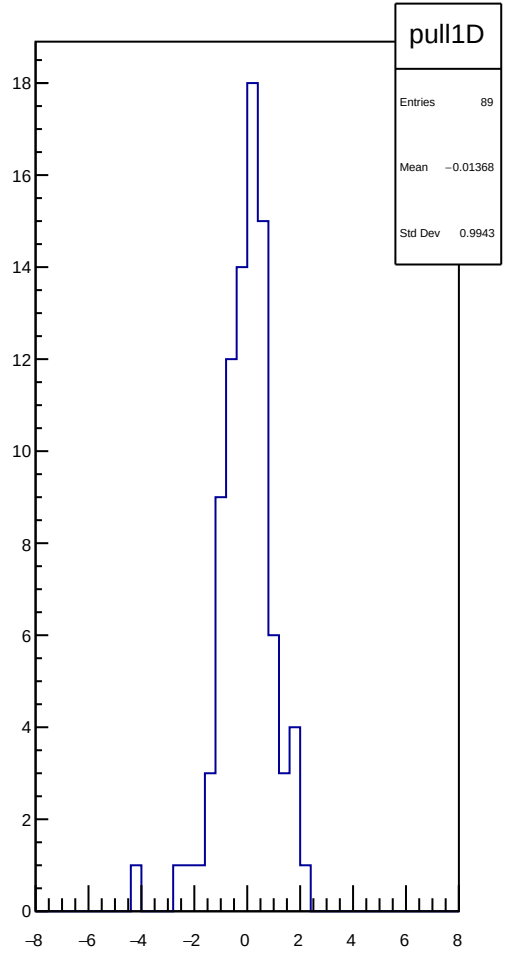

dit_asym_sam_48_avg_rms vs run
$\chi^2$ / ndf 5.686e+04 / 88
p0 265.8 ± 0.2018
800
700
600
500
400
300
200

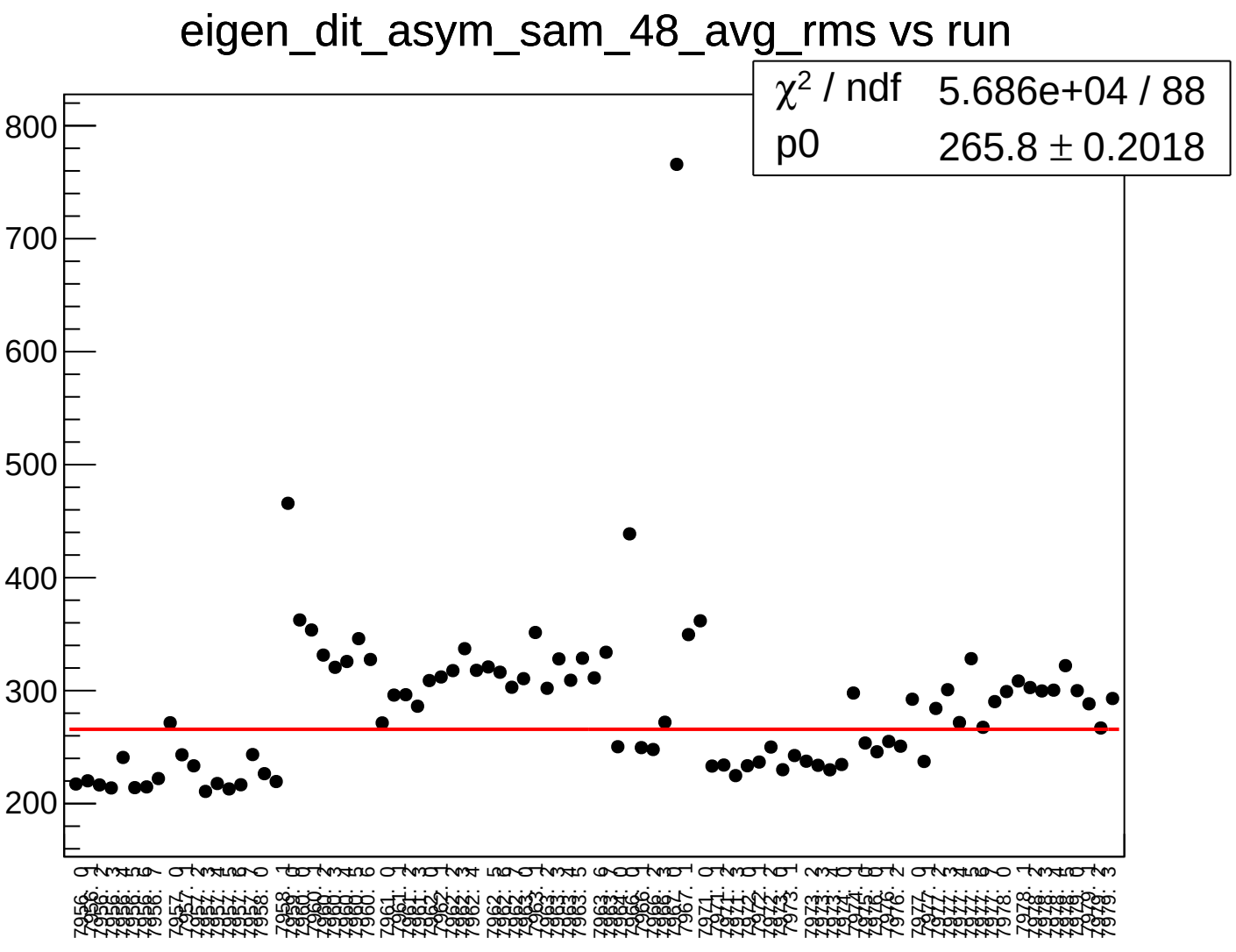

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 110 / 88
p0 782.4 ± 3009
150
100
50
0
−50
−100
pull
Entries 89
Mean −1426
Std Dev 0
4
3
2
1
0
−1
−2

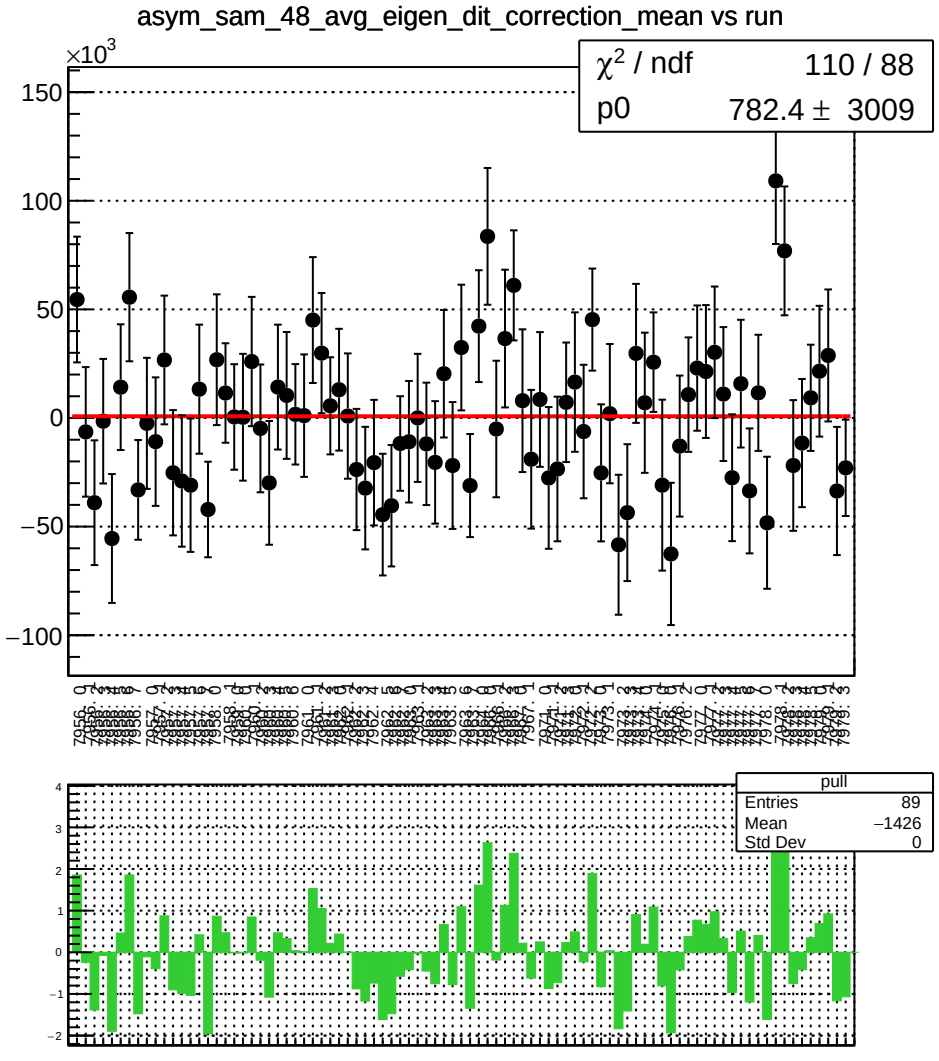

pull1D
Entries 89
Mean −0.001758
Std Dev 1.112
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

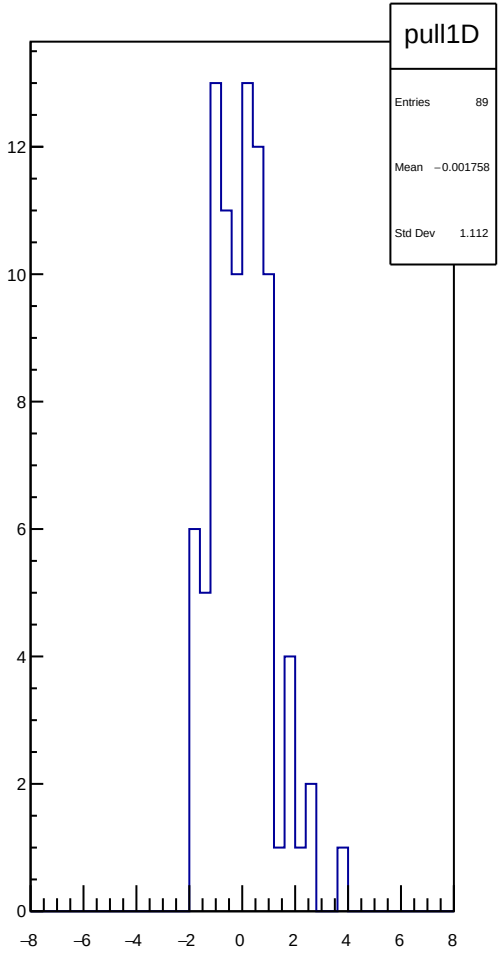

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 4206 / 88
p0 2844 ± 2.128
3300
3200
3100
3000
2900
2800
2700
2600

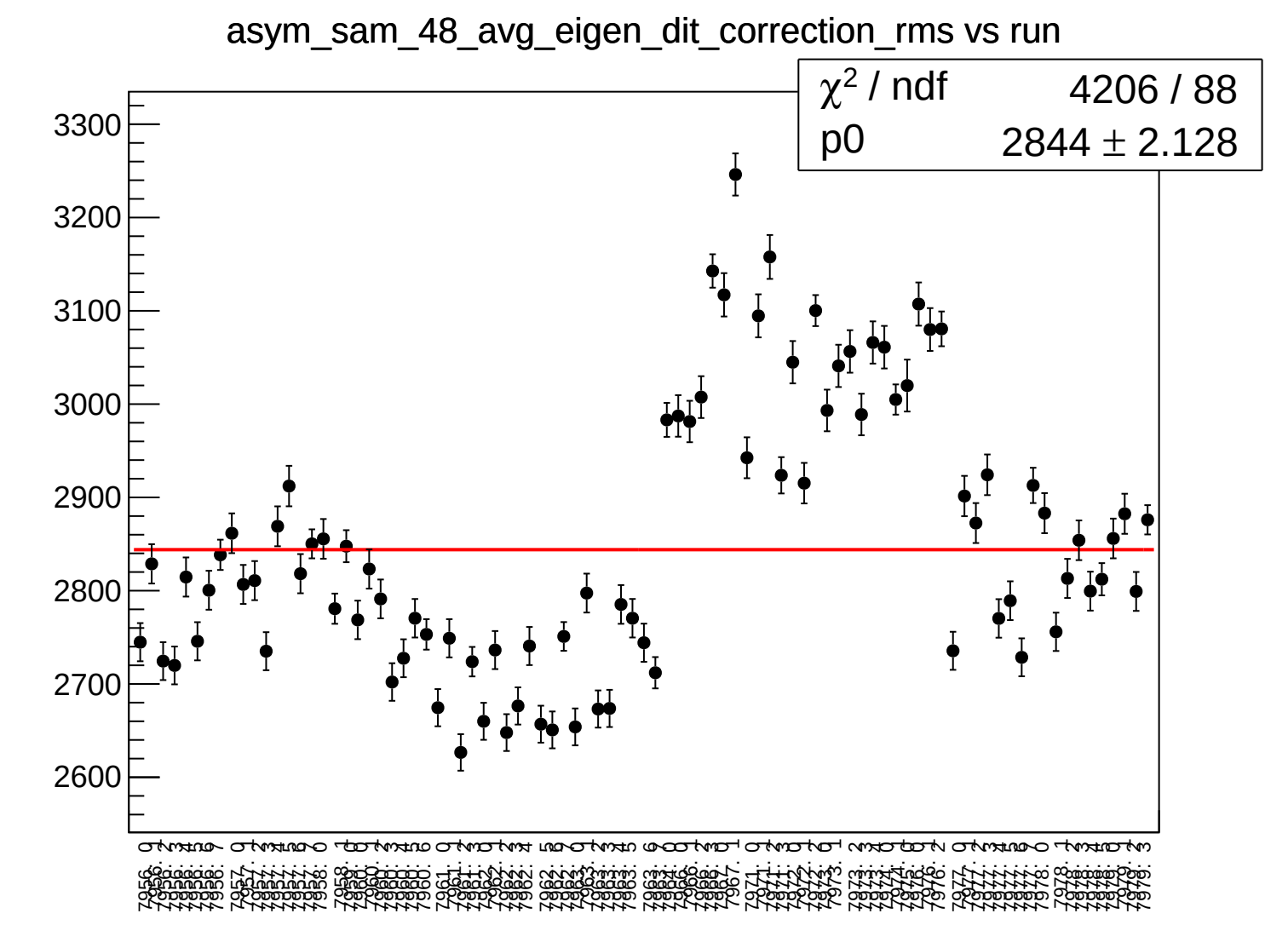

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 88.01 / 88
p0 81.92 ± 285.4
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 52.26
Std Dev 87.01
2
1
0
−1
−2
−3
−4

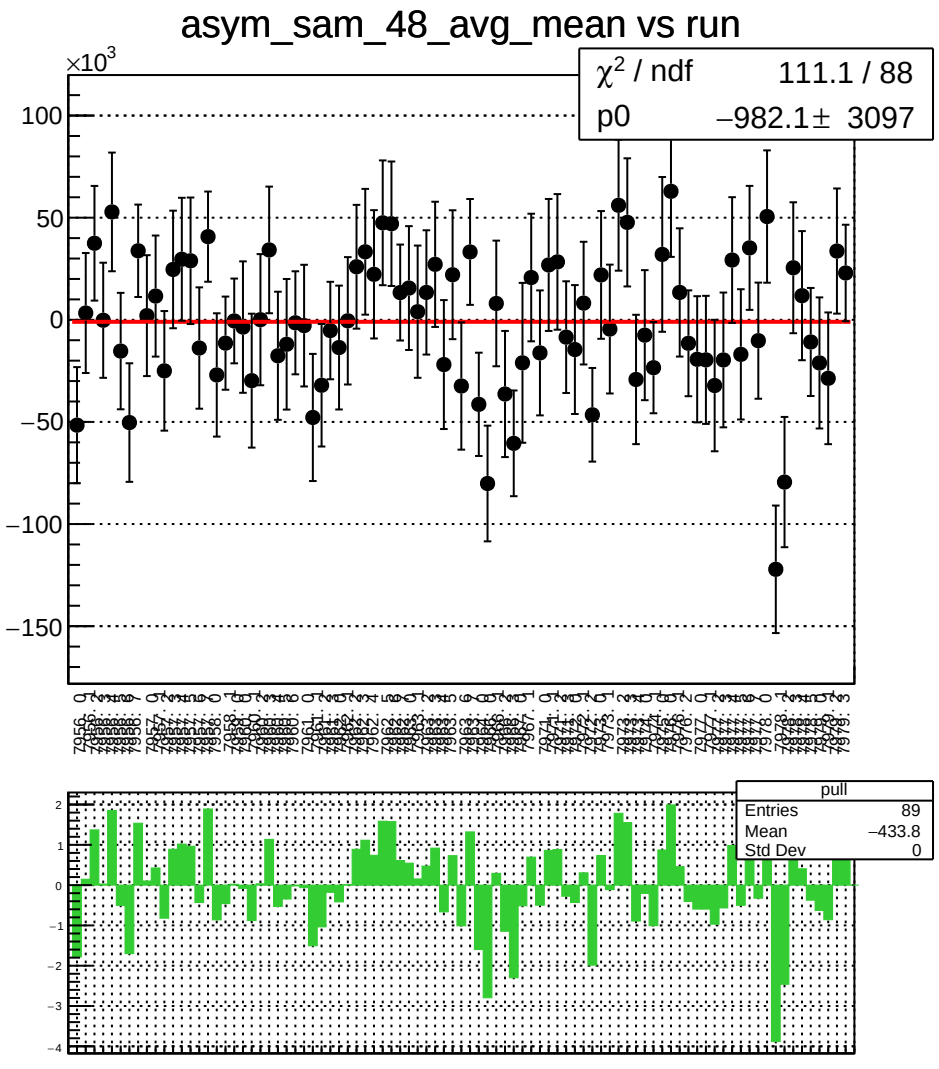

pull1D
Entries 89
Mean −0.01368
Std Dev 0.9943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

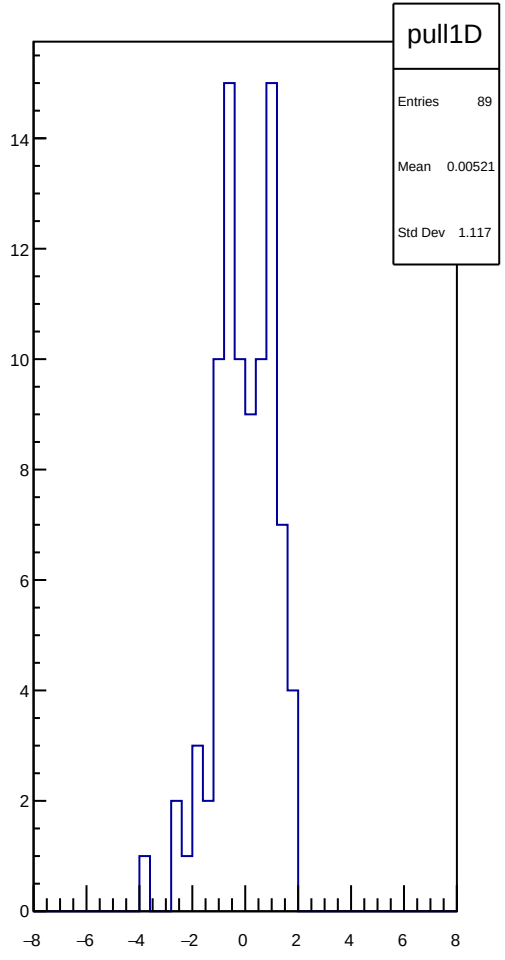

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 5.686e+04 / 88
p0 265.8 ± 0.2018
800
700
600
500
400
300
200

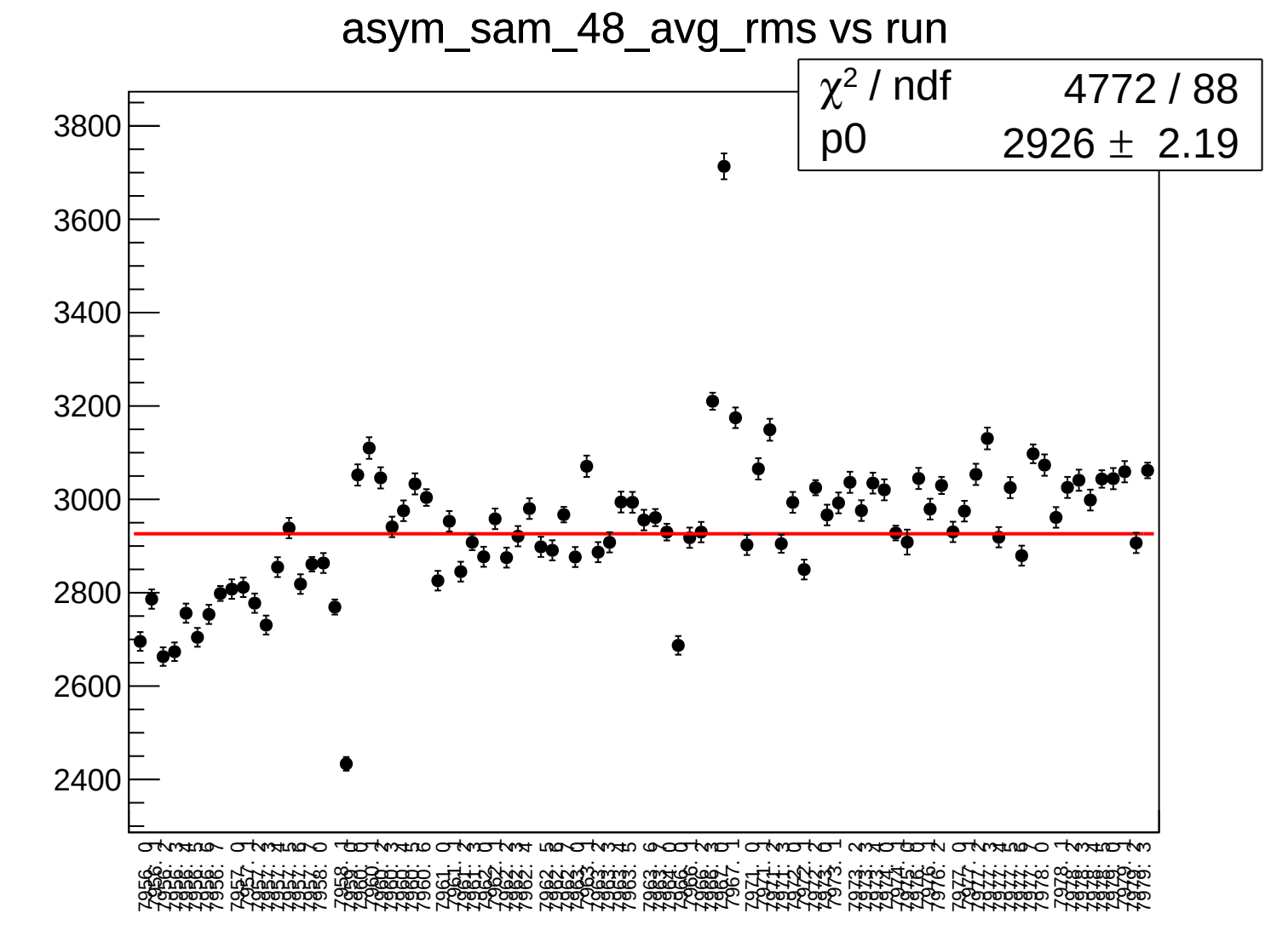

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 110 / 88
p0 782.4 ± 3009
150
100
50
0
−50
−100
pull
Entries 89
Mean −1426
Std Dev 0
4
3
2
1
0
−1
−2

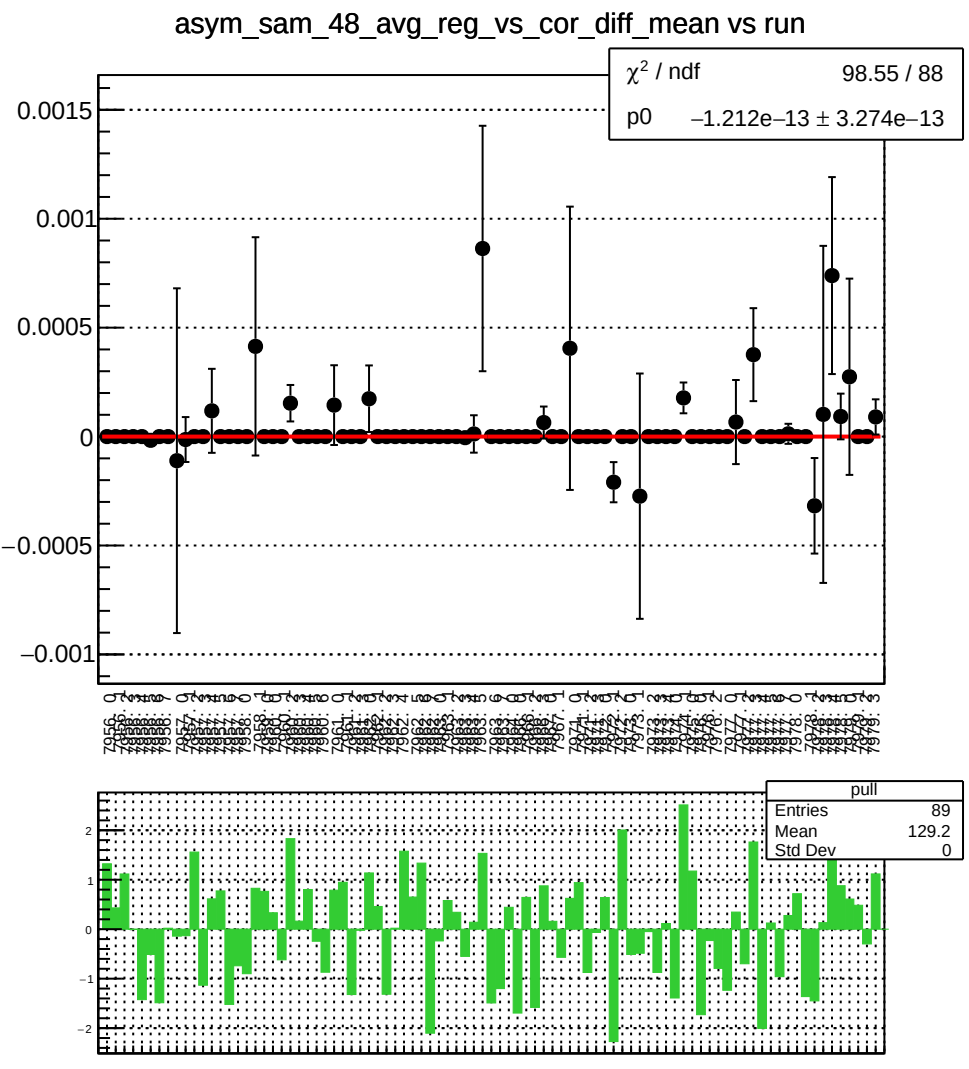

pull1D
Entries 89
Mean −0.001758
Std Dev 1.112
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

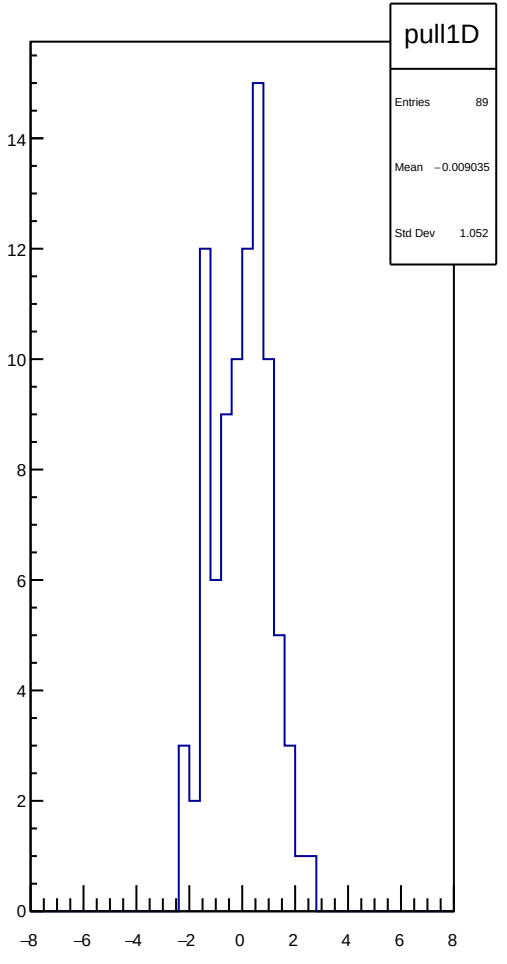

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 4206 / 88
p0 2844 ± 2.128
3300
3200
3100
3000
2900
2800
2700
2600

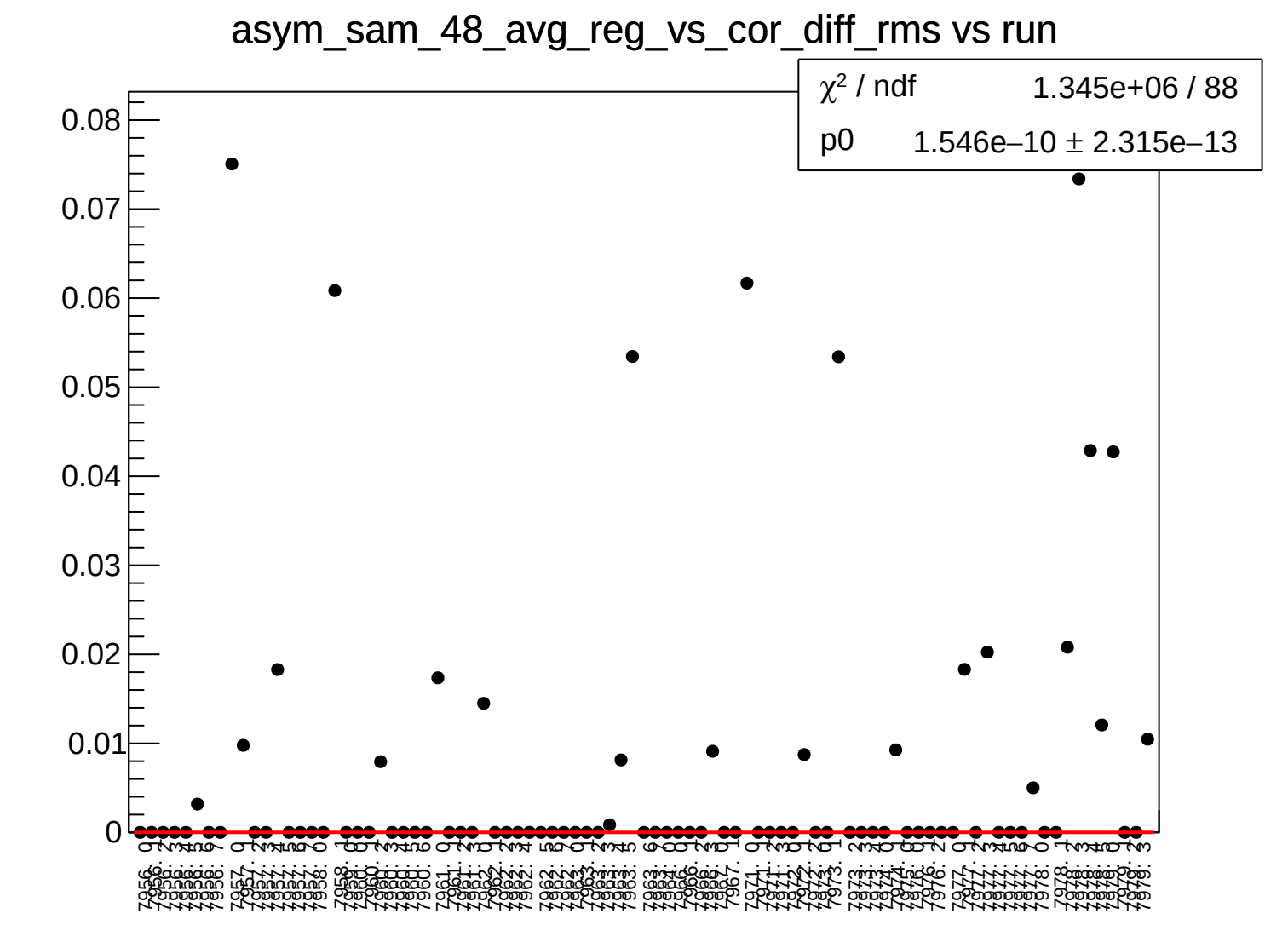

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 111.1 / 88
p0 −982.1± 3097
100
50
0
−50
−100
−150
pull
Entries 89
Mean −433.8
Std Dev 0
2
1
0
−1
−2
−3
−4

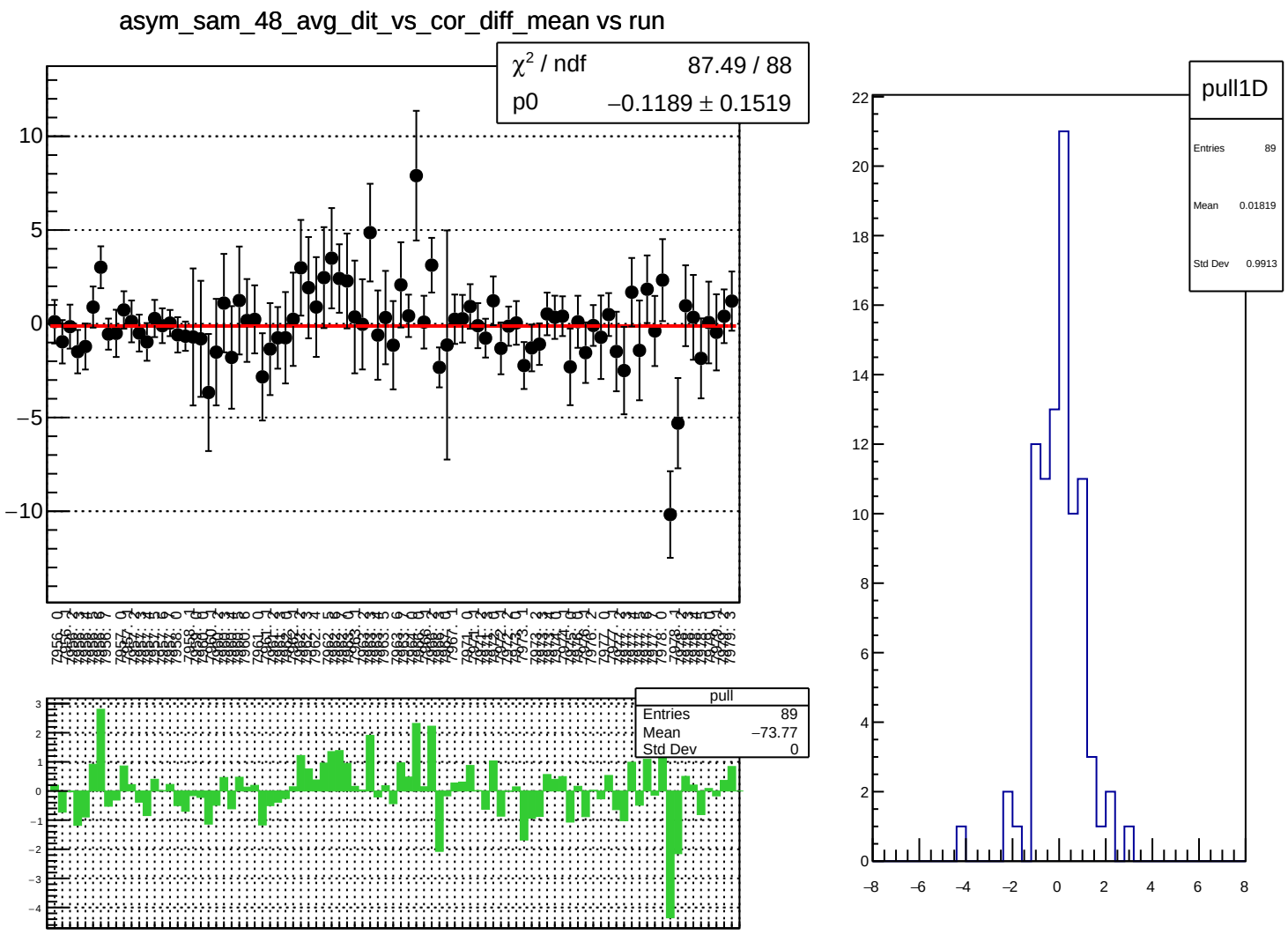

pull1D
Entries 89
Mean 0.00521
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

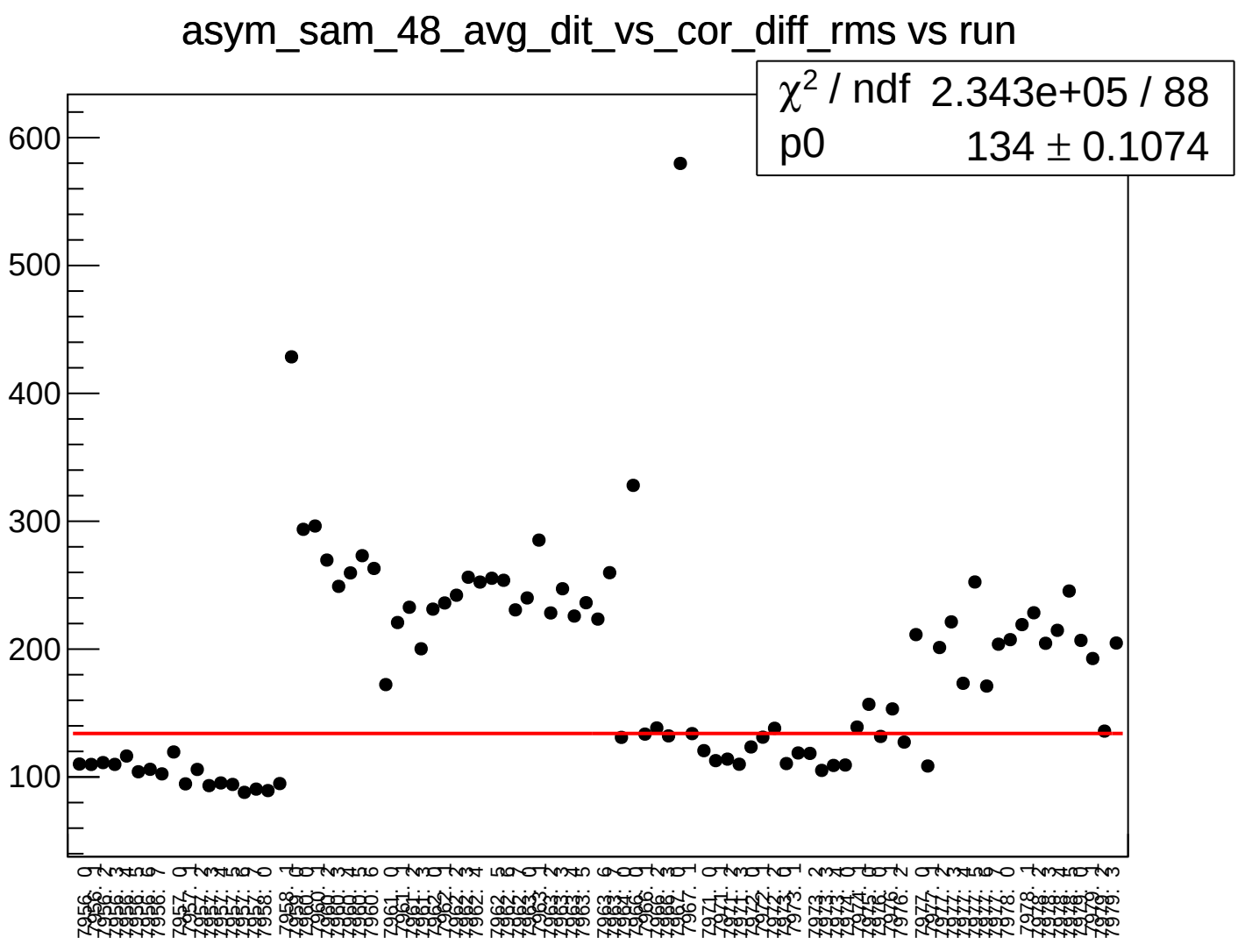

asym_sam_48_avg_rms vs run
χ² / ndf 4772 / 88
p0 2926 ± 2.19
3800
3600
3400
3200
3000
2800
2600
2400

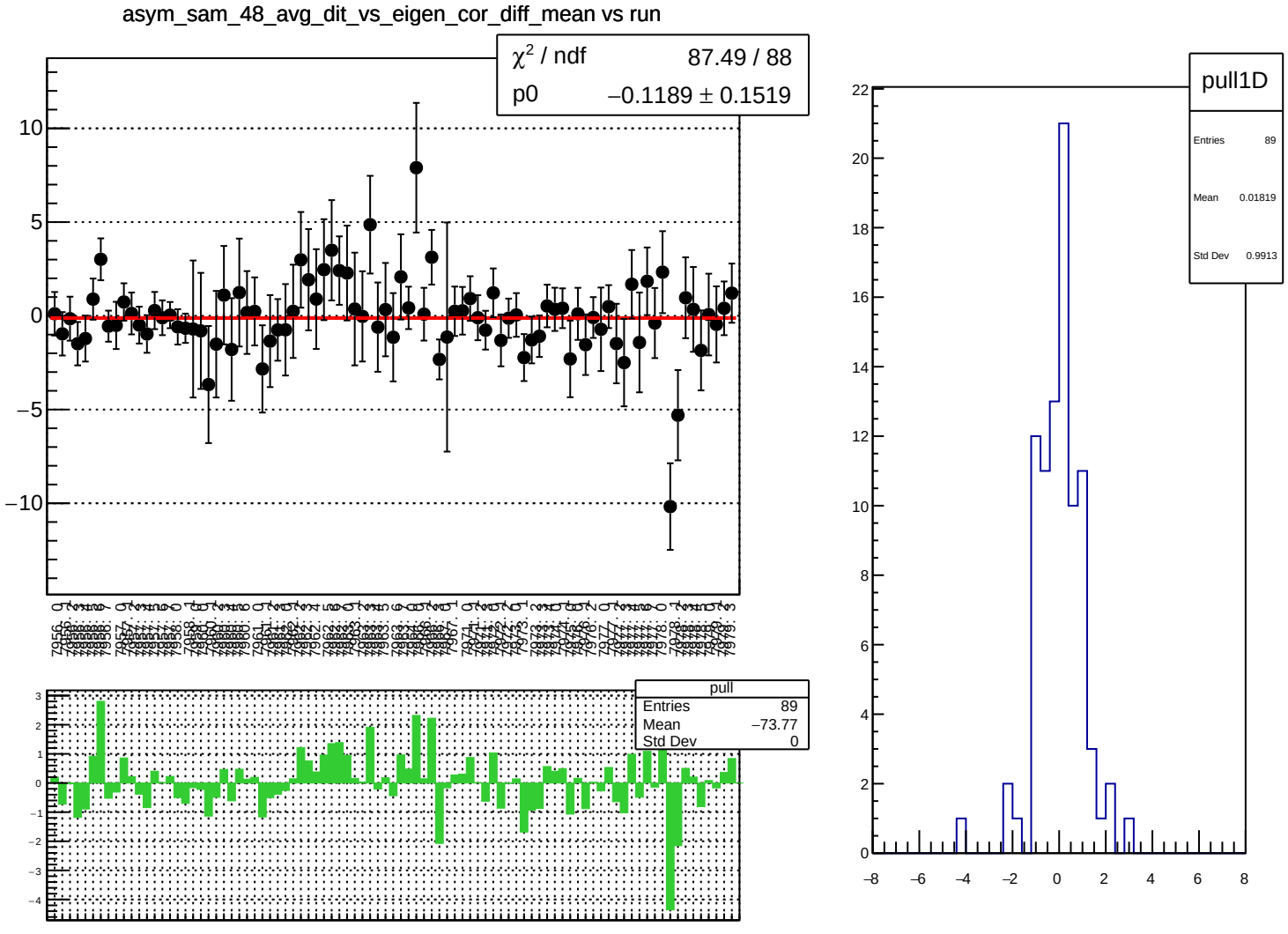

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.55 / 88
p0 −1.212e−13 ± 3.274e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 129.2
Std Dev 0
2
1
0
−1
−2

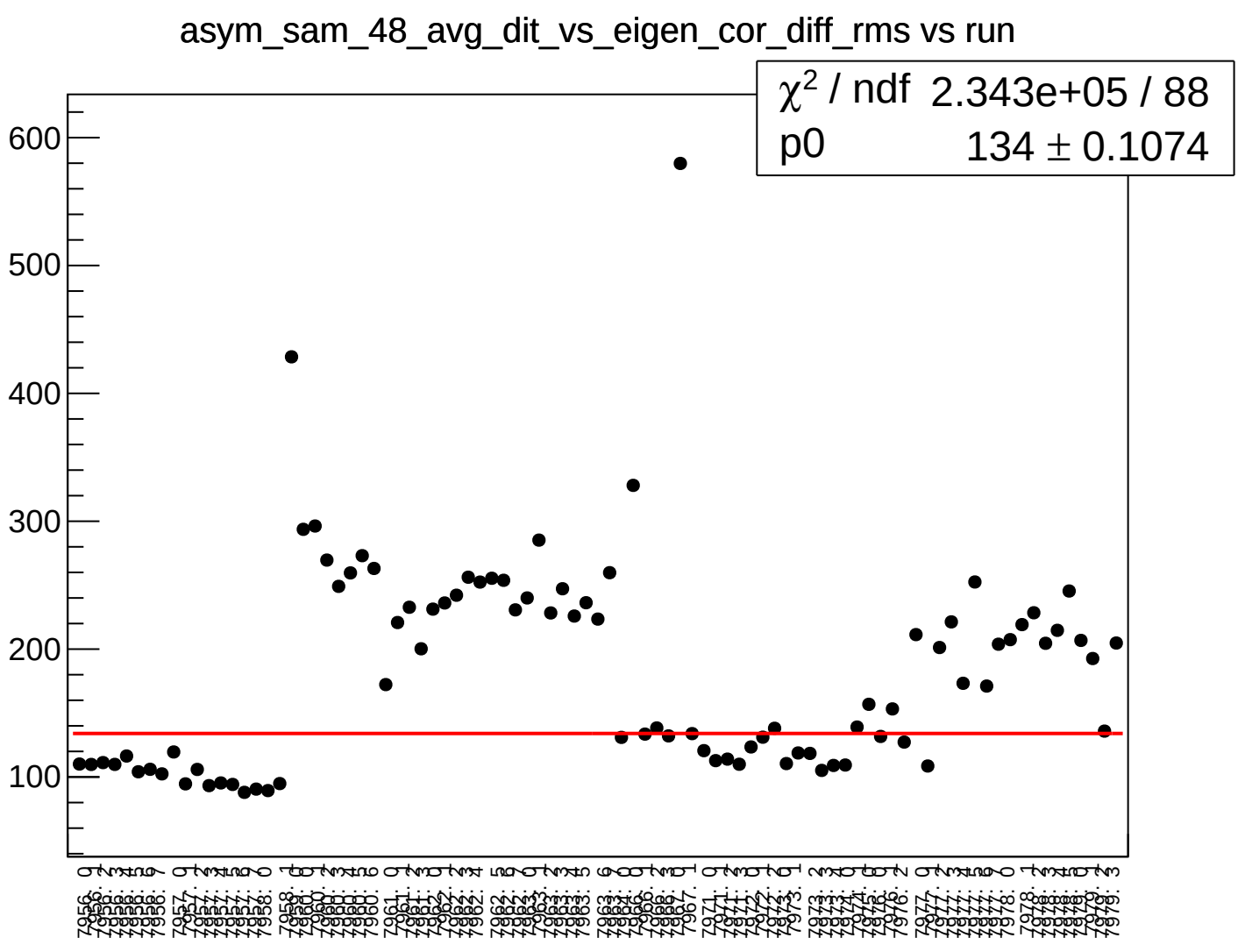

pull1D
Entries 89
Mean −0.009035
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

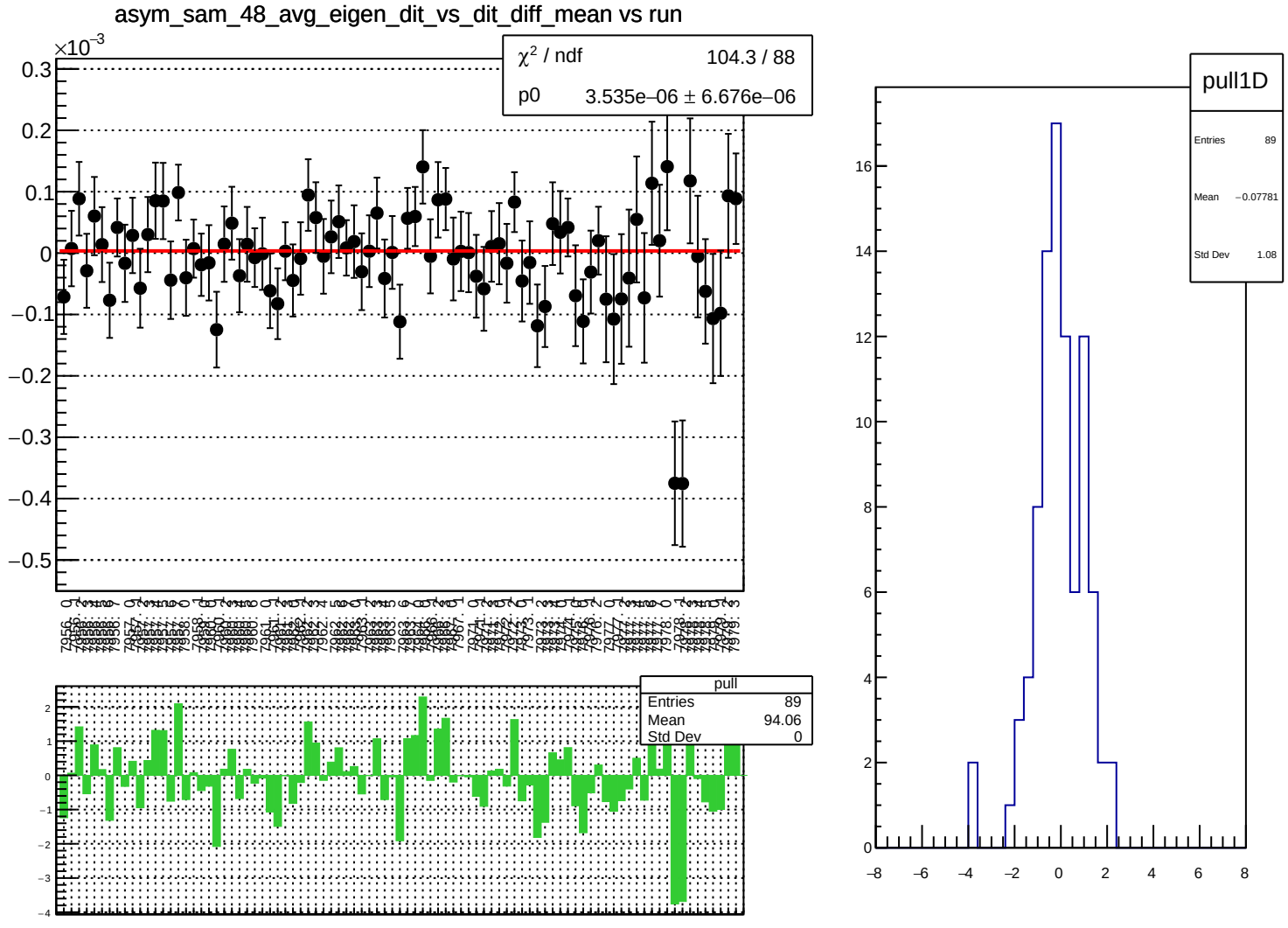

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.345e+06 / 88
p0 1.546e−10 ± 2.315e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

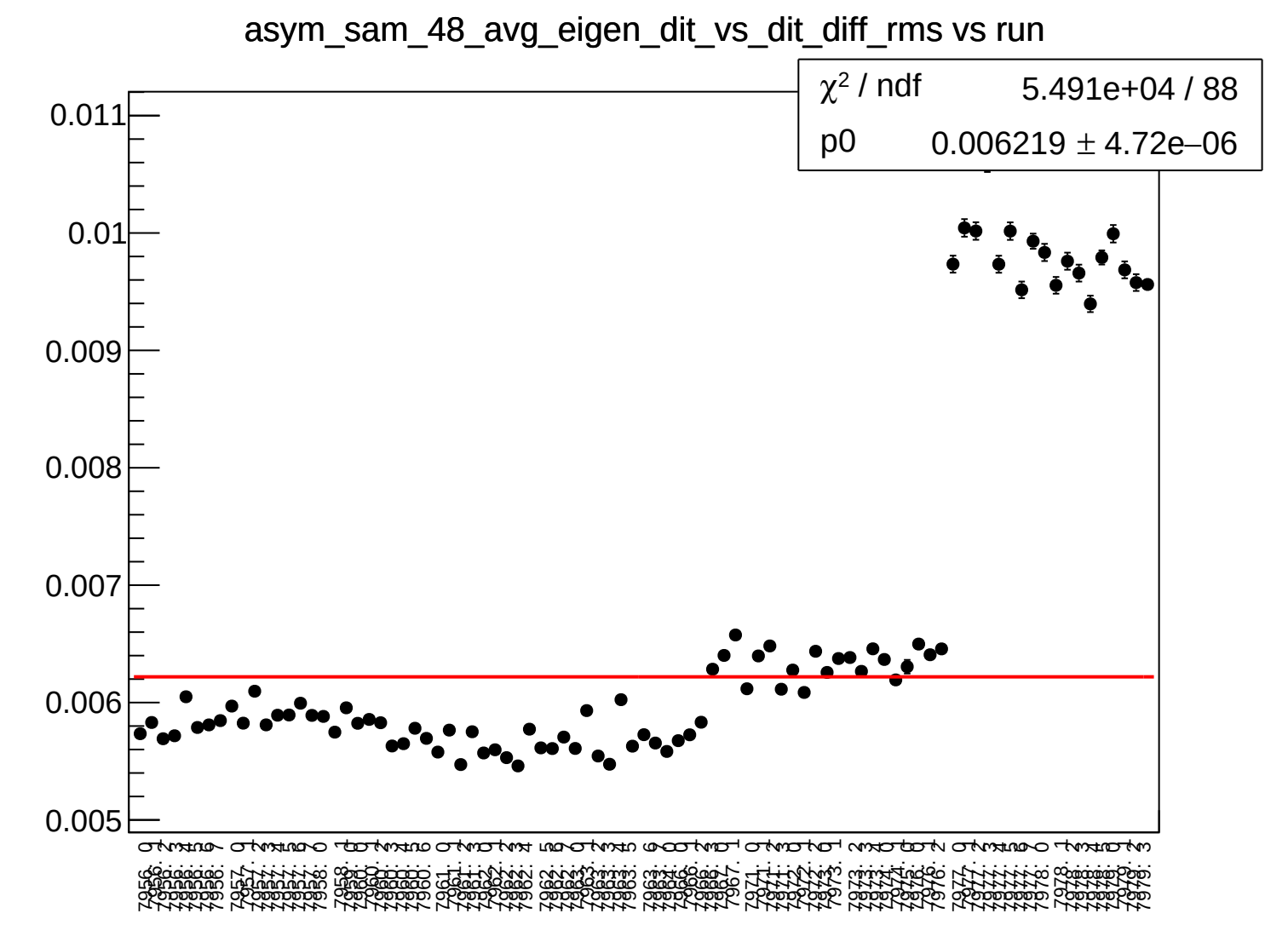

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.49 / 88
p0 −0.1189 ± 0.1519
pull
Entries 89
Mean −73.77
Std Dev 0
pull1D
Entries 89
Mean 0.01819
Std Dev 0.9913

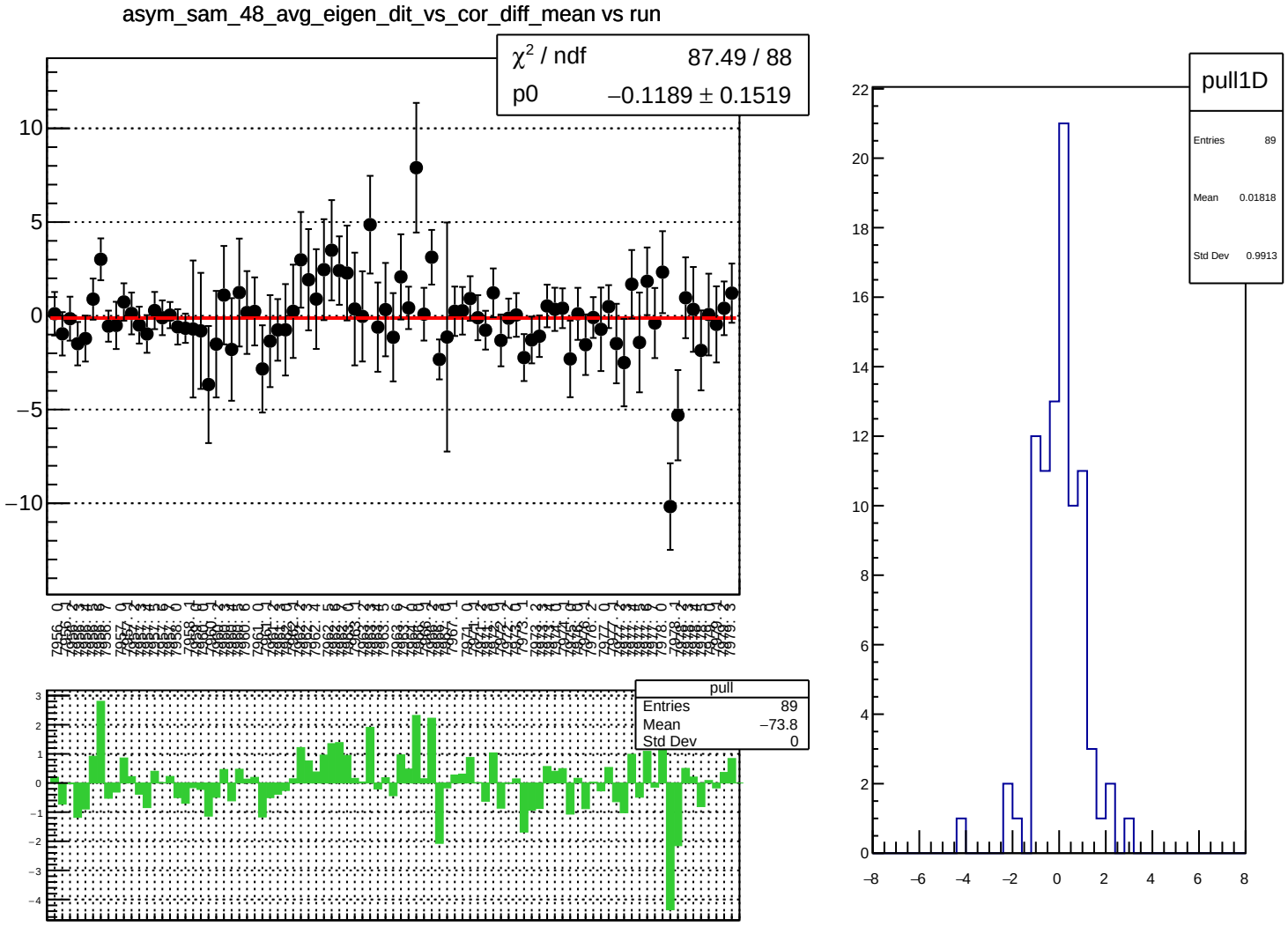

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.343e+05 / 88
p0 134 ± 0.1074
600
500
400
300
200
100

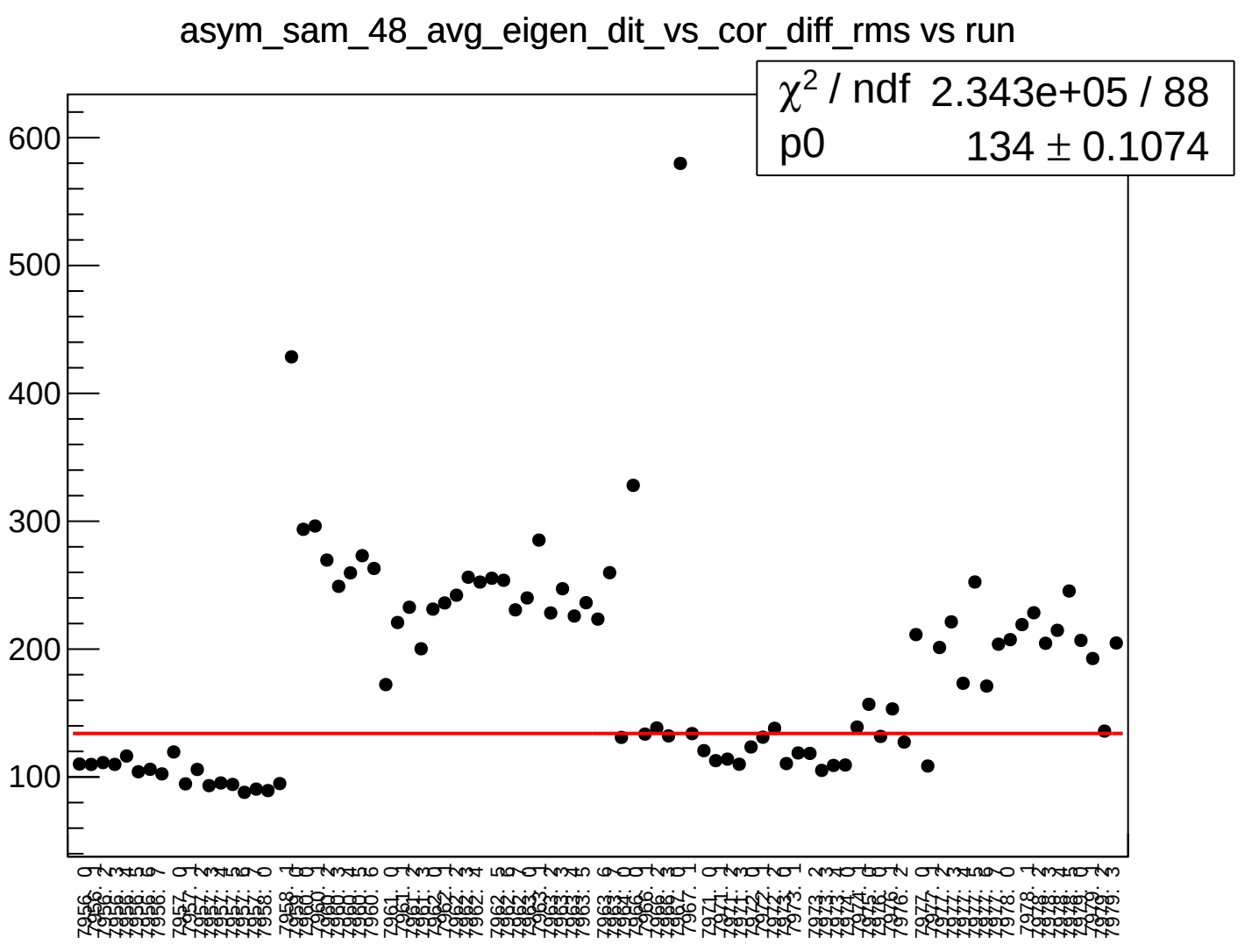

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.49 / 88
p0 −0.1189 ± 0.1519
pull
Entries 89
Mean −73.77
Std Dev 0
pull1D
Entries 89
Mean 0.01819
Std Dev 0.9913

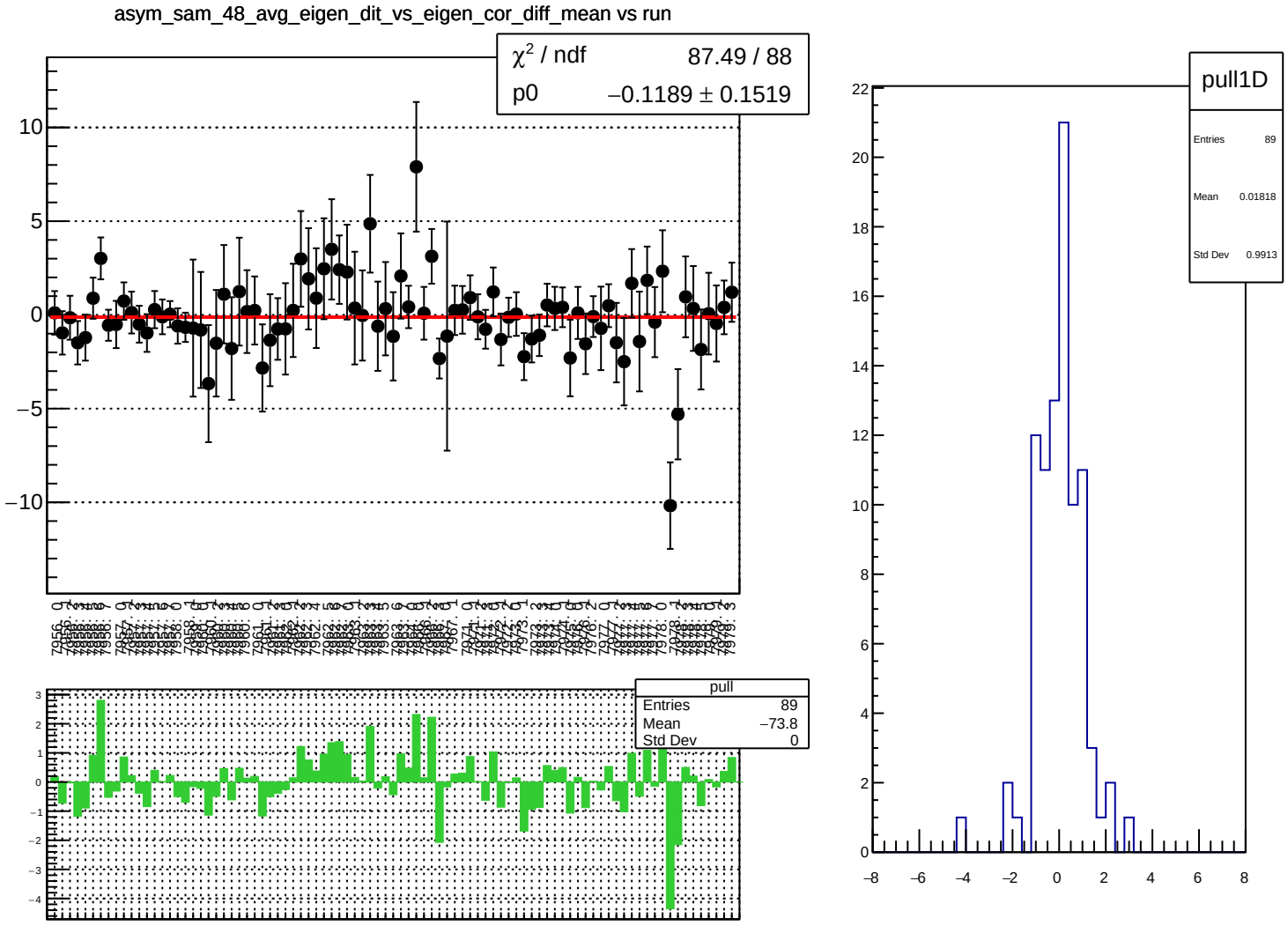

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 2.343e+05 / 88
p0 134 ± 0.1074
600
500
400
300
200
100

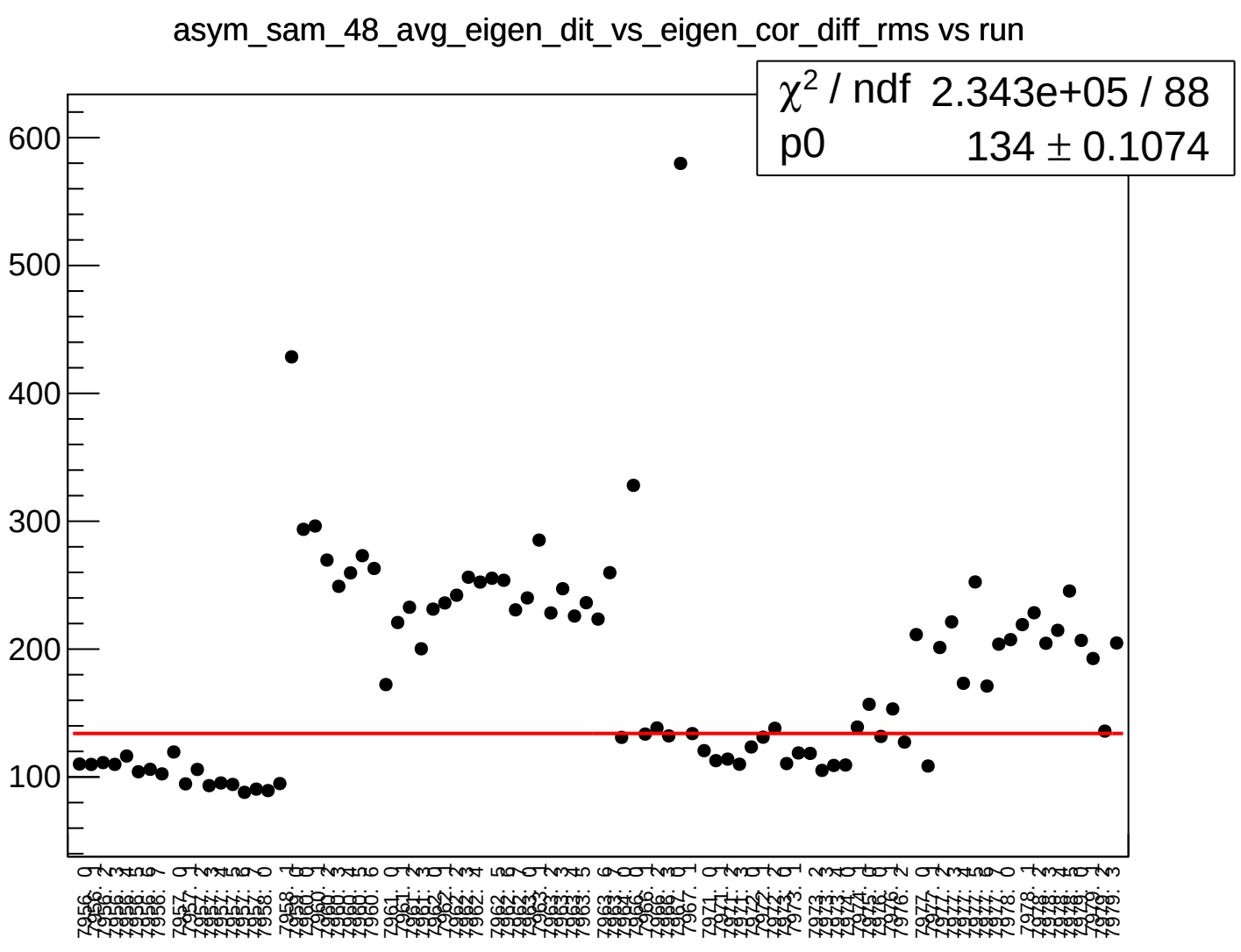

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.3 / 88
p0 3.535e−06 ± 6.676e−06
pull
Entries 89
Mean 94.06
Std Dev 0
pull1D
Entries 89
Mean −0.07781
Std Dev 1.08

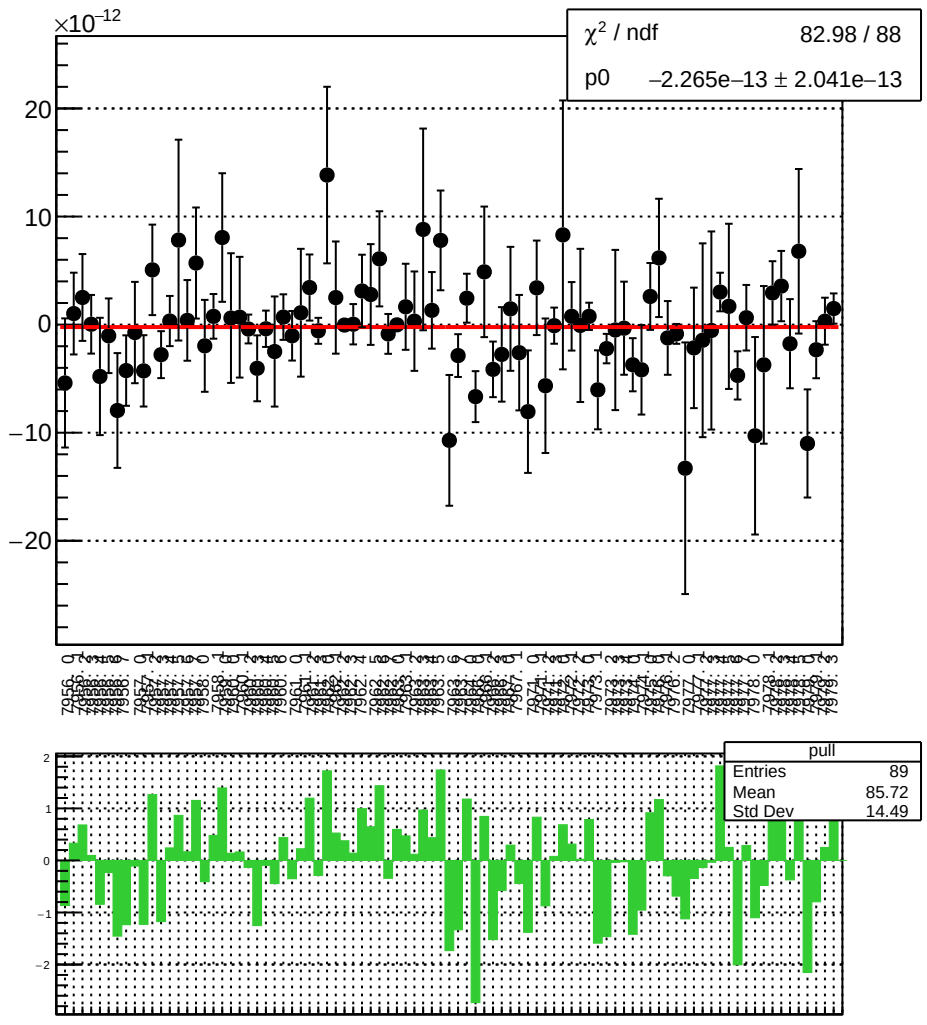

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.491e+04 / 88
p0 0.006219 ± 4.72e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

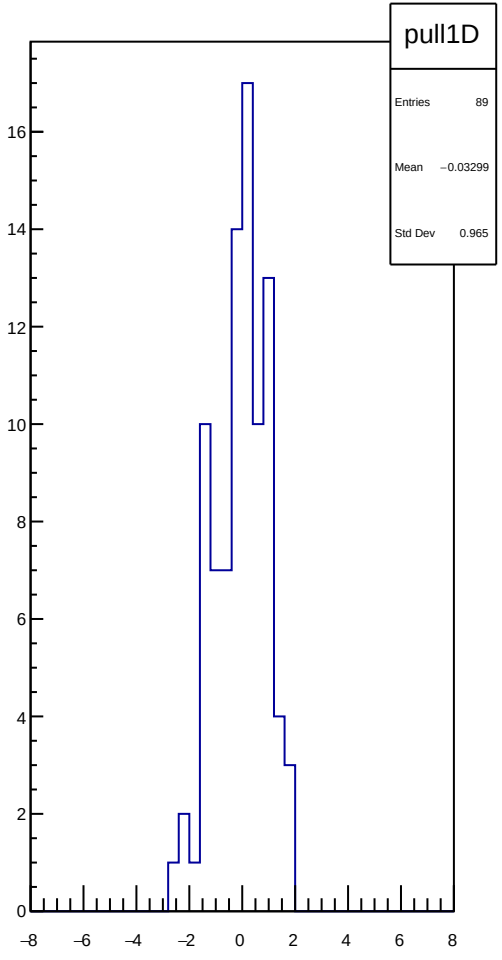

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.49 / 88
p0 −0.1189 ± 0.1519
pull
Entries 89
Mean −73.8
Std Dev 0
pull1D
Entries 89
Mean 0.01818
Std Dev 0.9913

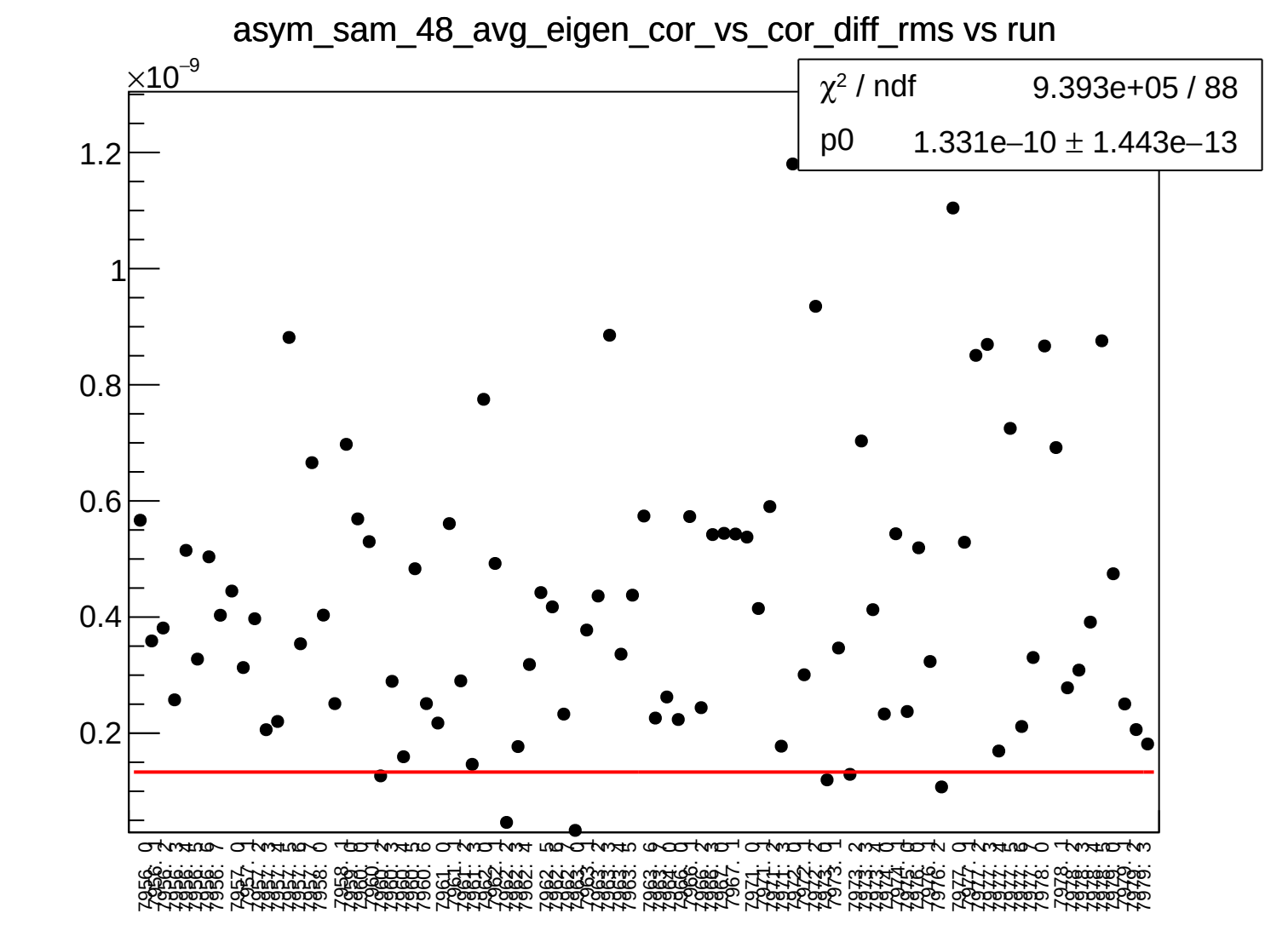

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.343e+05 / 88
p0 134 ± 0.1074
600
500
400
300
200
100

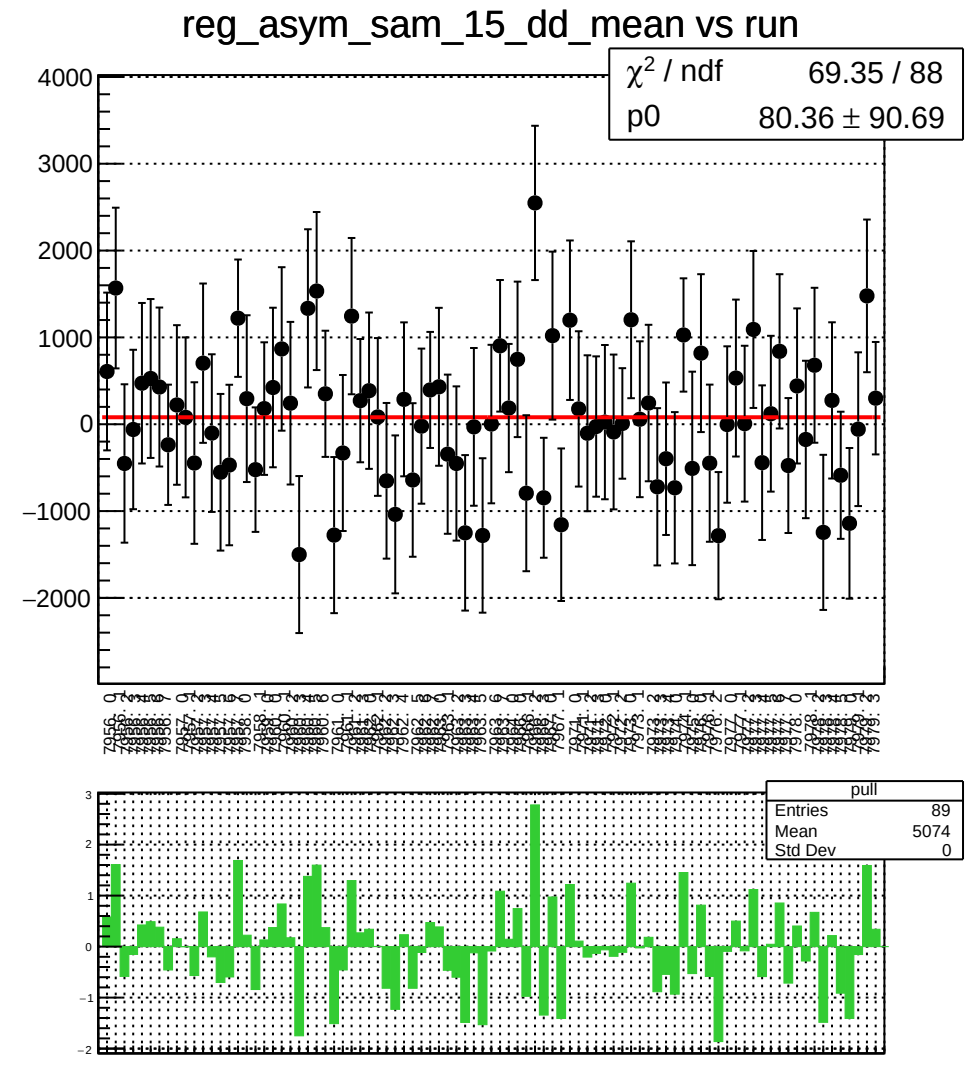

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.49 / 88
p0 −0.1189 ± 0.1519
pull
Entries 89
Mean −73.8
Std Dev 0
pull1D
Entries 89
Mean 0.01818
Std Dev 0.9913

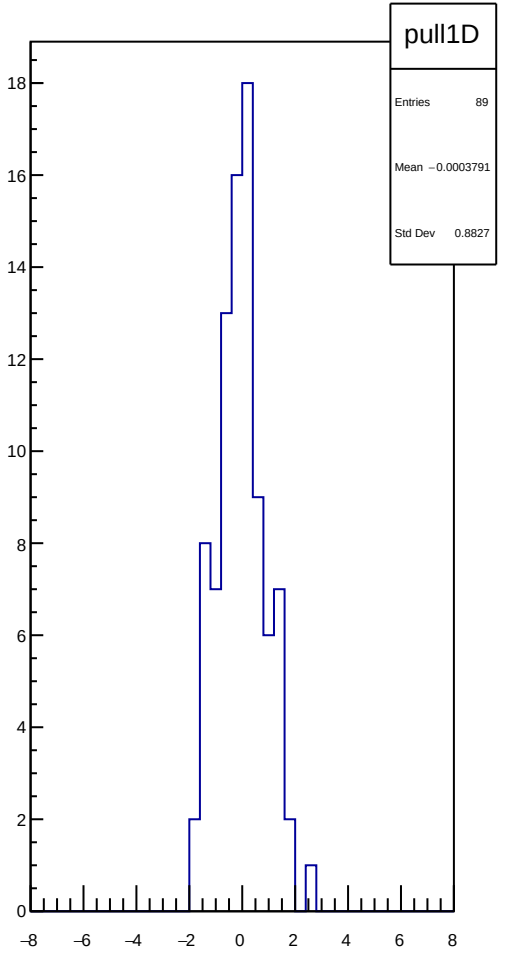

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.343e+05 / 88
p0 134 ± 0.1074
600
500
400
300
200
100

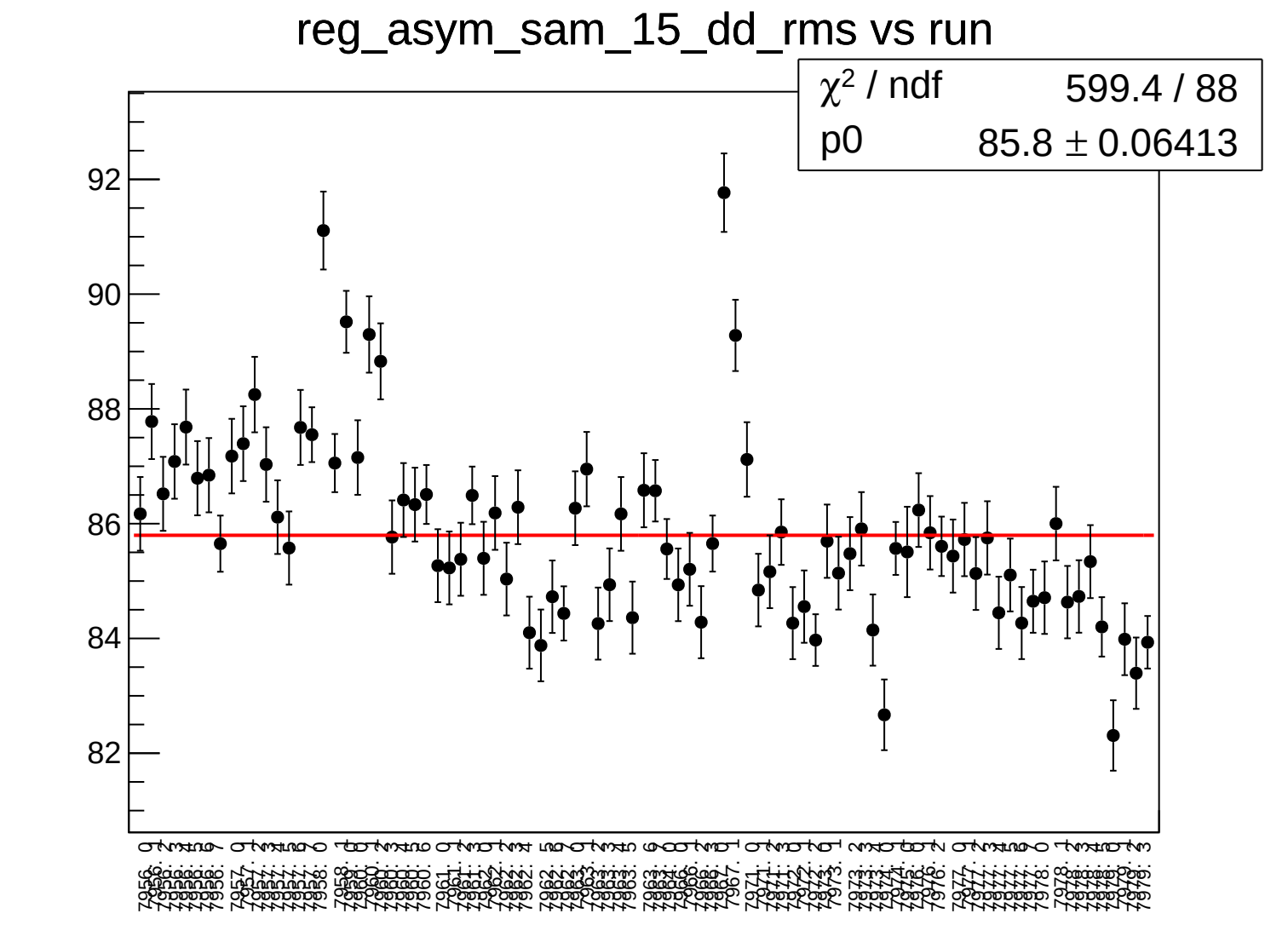

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.98 / 88
p0 −2.265e−13 ± 2.041e−13
20
10
0
−10
−20
pull
Entries 89
Mean 85.72
Std Dev 14.49
2
1
0
−1
−2

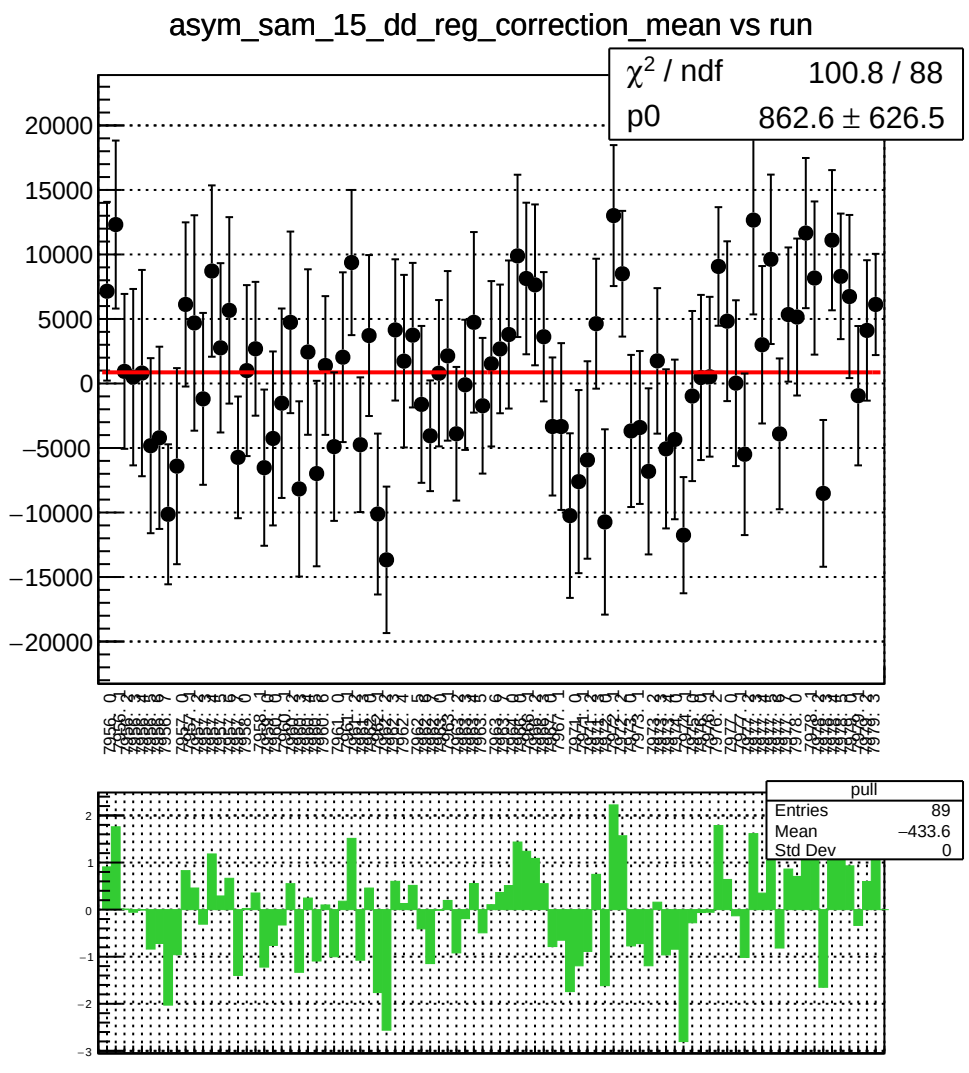

pull1D
Entries 89
Mean −0.03299
Std Dev 0.965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

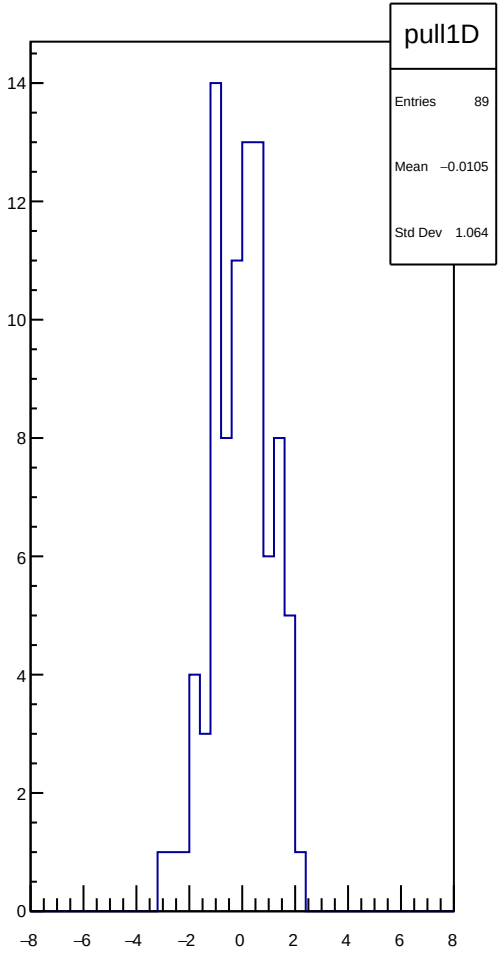

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.393e+05 / 88
p0 1.331e−10 ± 1.443e−13
1.2
1
0.8
0.6
0.4
0.2

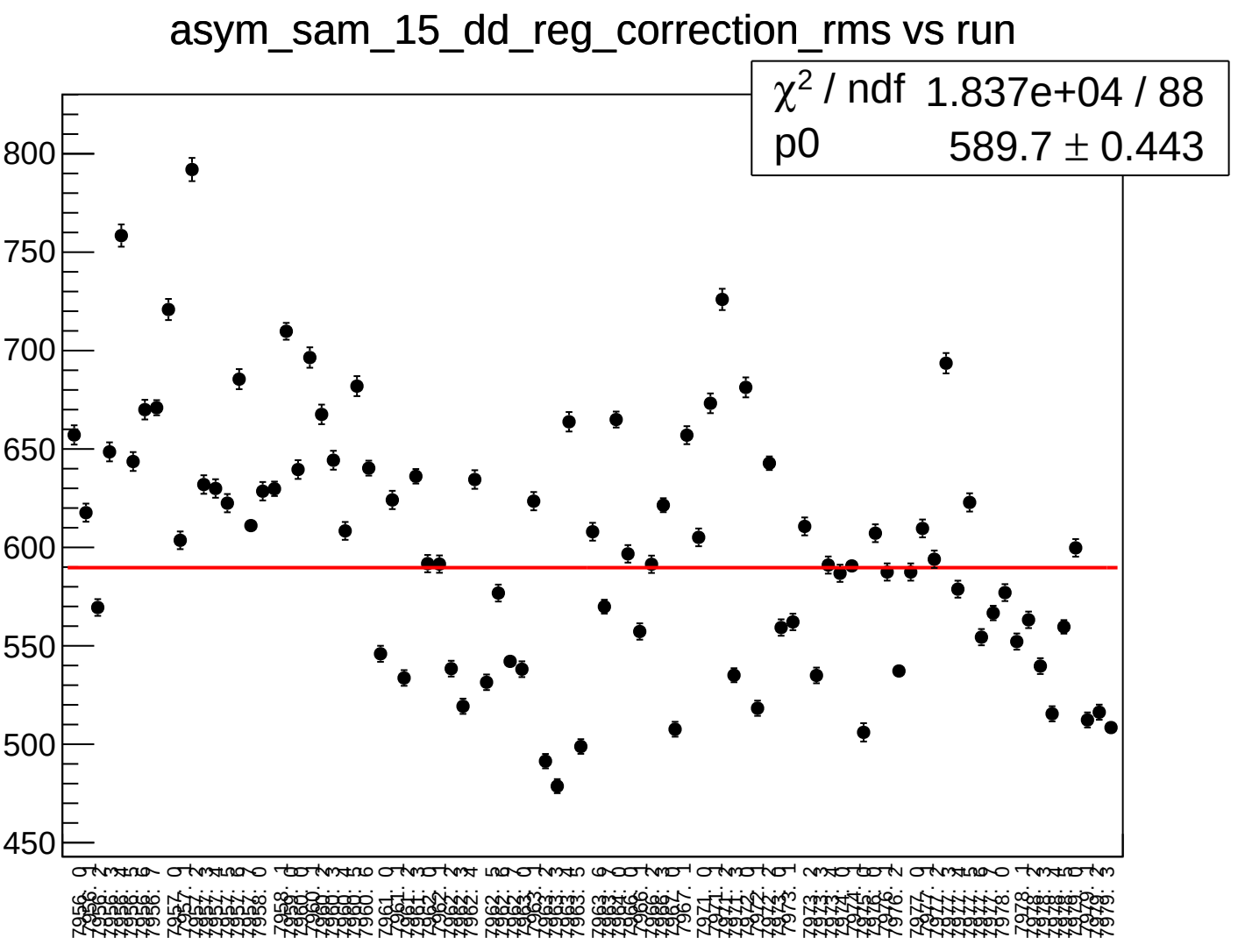

reg_asym_sam_15_dd_mean vs run
$\chi^2$ / ndf 69.35 / 88
p0 80.36 ± 90.69
pull
Entries 89
Mean 5074
Std Dev 0

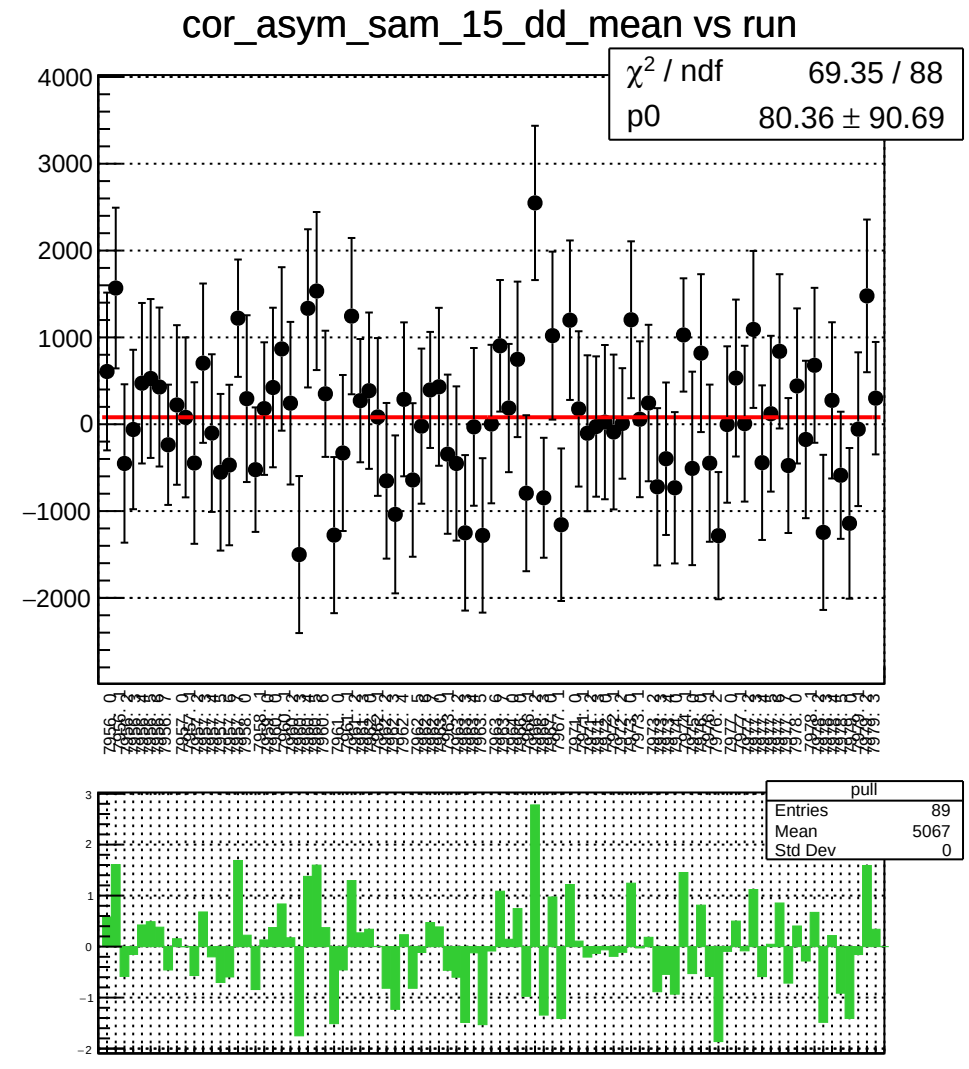

pull1D
Entries 89
Mean −0.0003791
Std Dev 0.8827

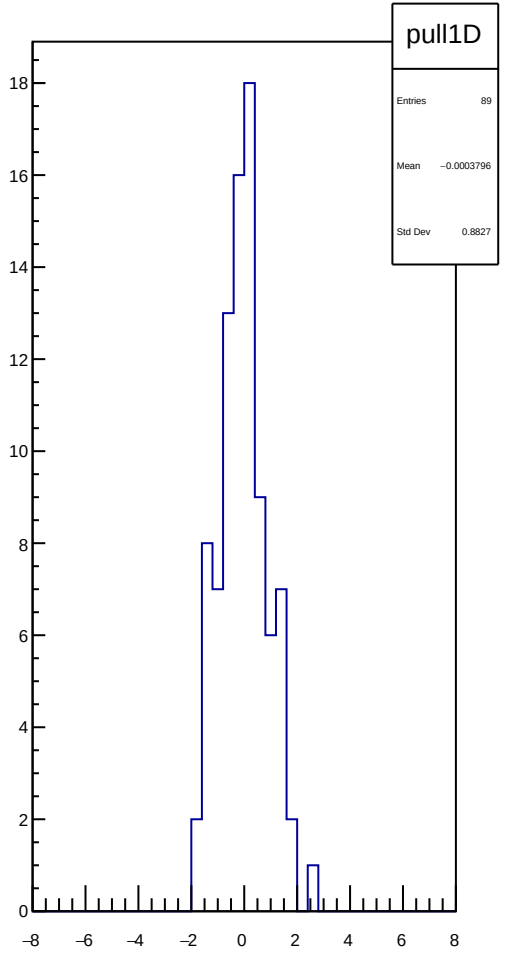

reg_asym_sam_15_dd_rms vs run
χ² / ndf 599.4 / 88
p0 85.8 ± 0.06413
92
90
88
86
84
82

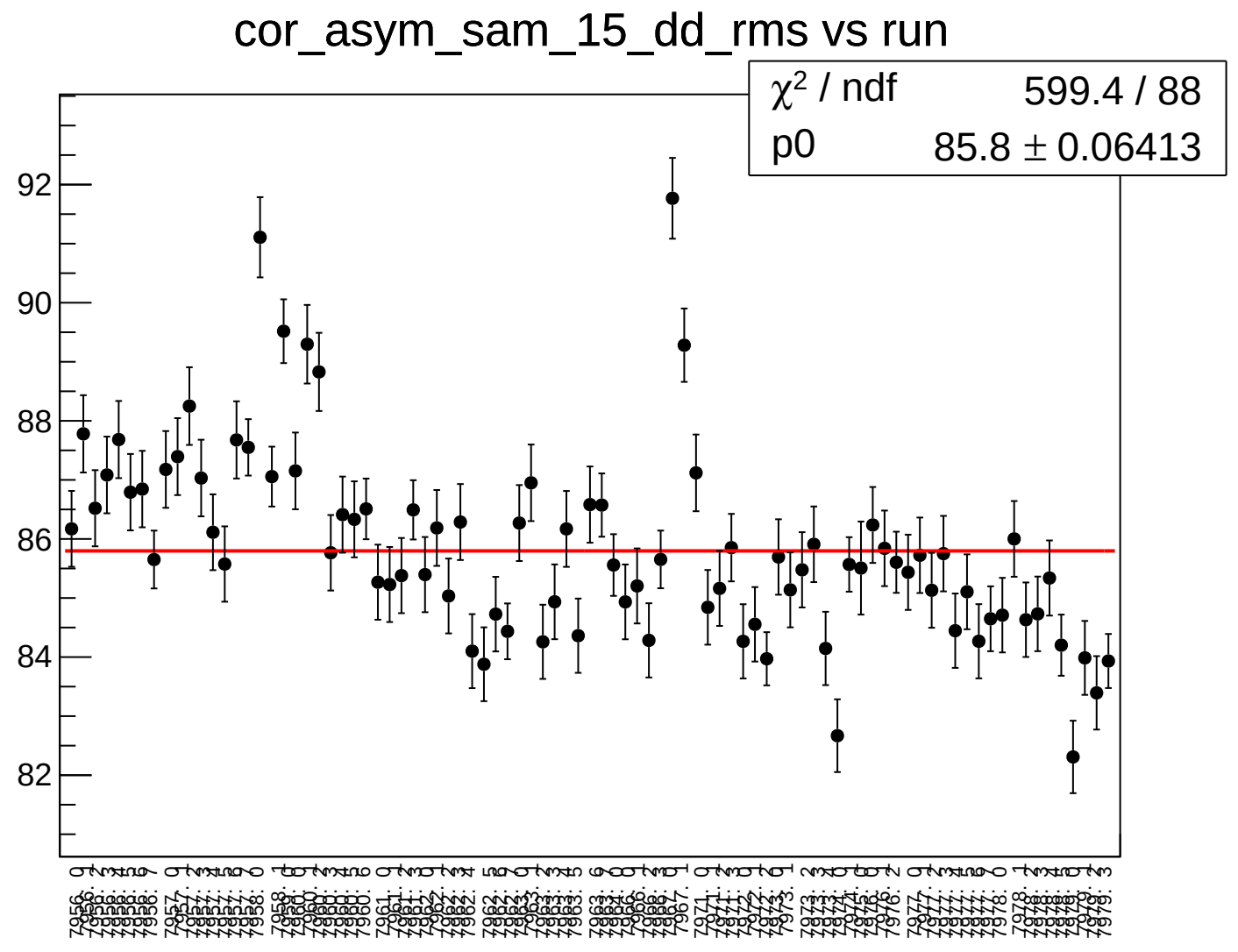

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 100.8 / 88
p0 862.6 ± 626.5
pull
Entries 89
Mean −433.6
Std Dev 0

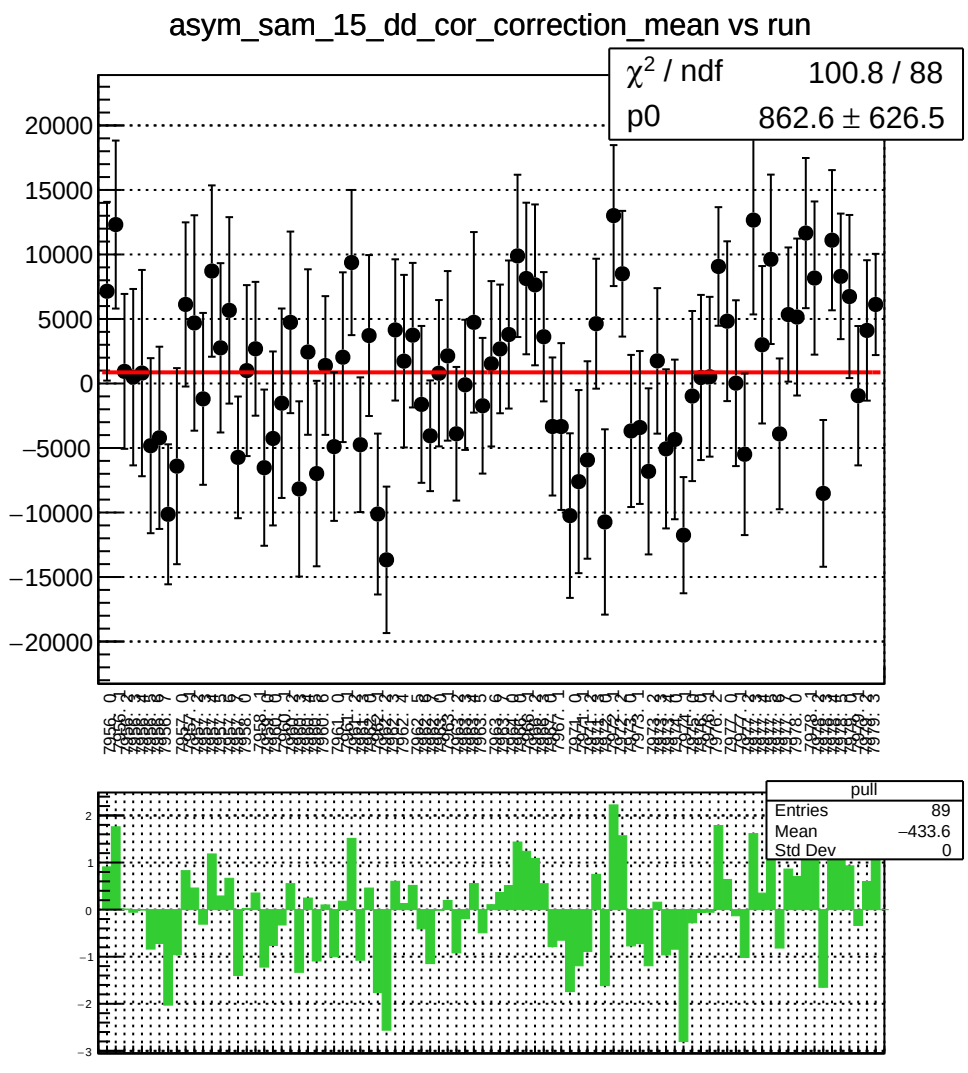

pull1D
Entries 89
Mean −0.0105
Std Dev 1.064

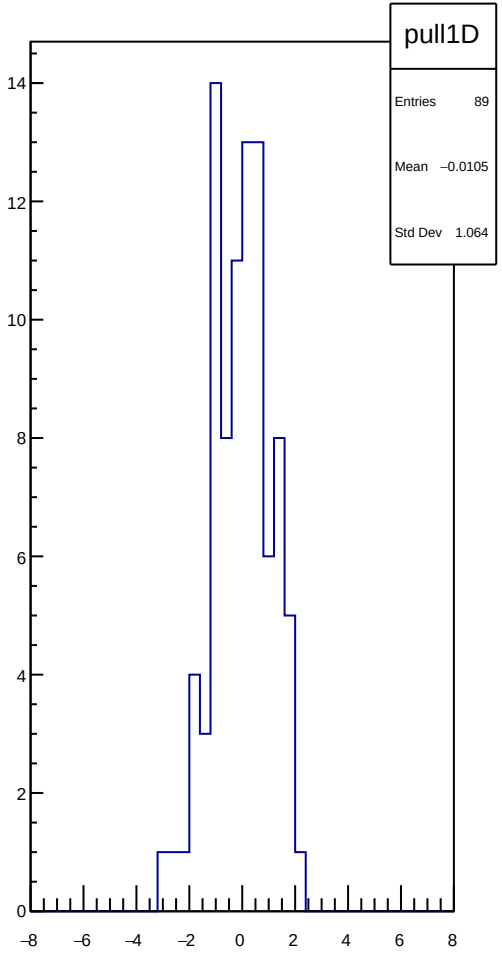

asym_sam_15_dd_reg_correction_rms vs run
$\chi^2$ / ndf 1.837e+04 / 88
p0 589.7 ± 0.443
800
750
700
650
600
550
500
450

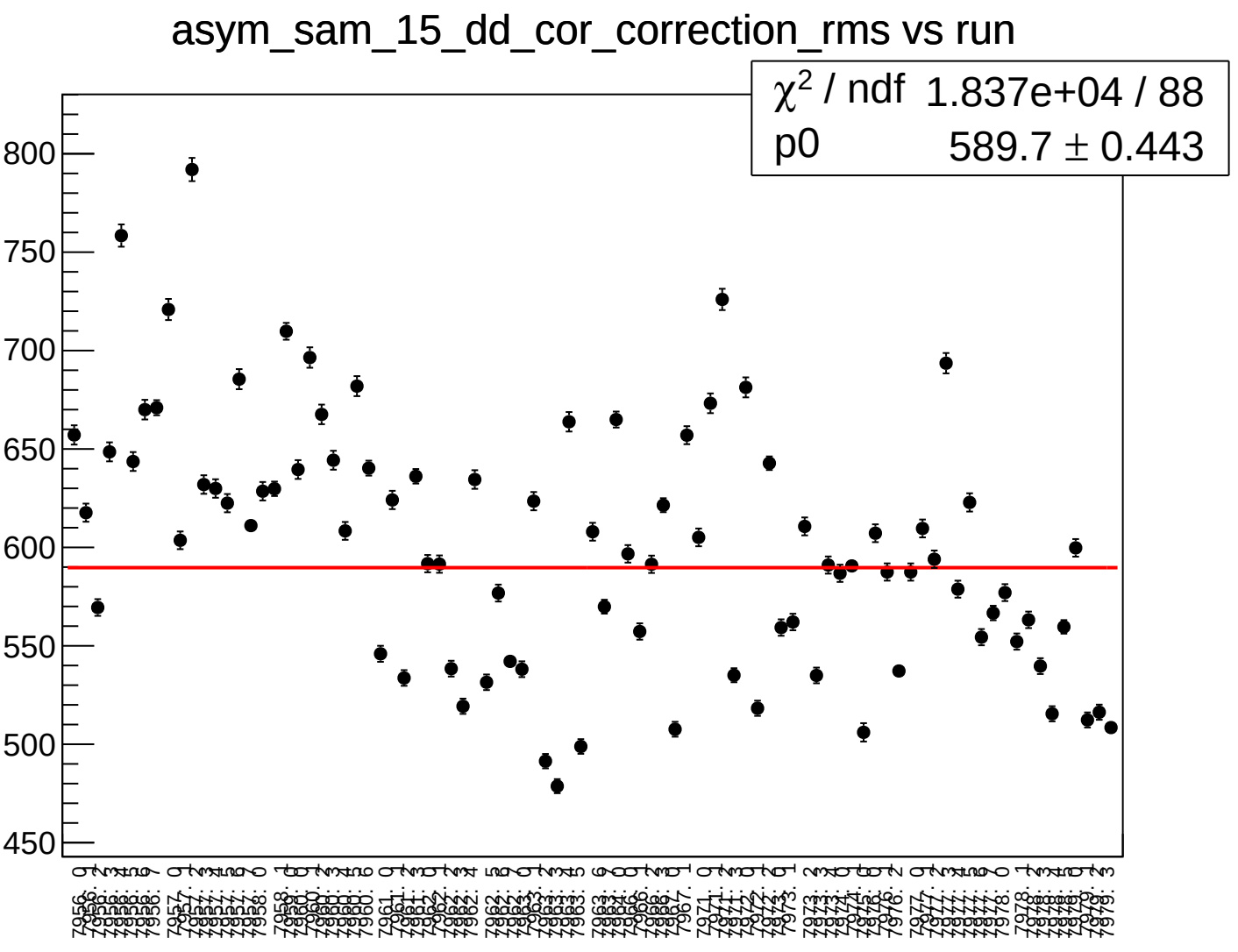

cor_asym_sam_15_dd_mean vs run
$\chi^2$ / ndf 69.35 / 88
p0 80.36 ± 90.69
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 5067
Std Dev 0
3
2
1
0
−1
−2

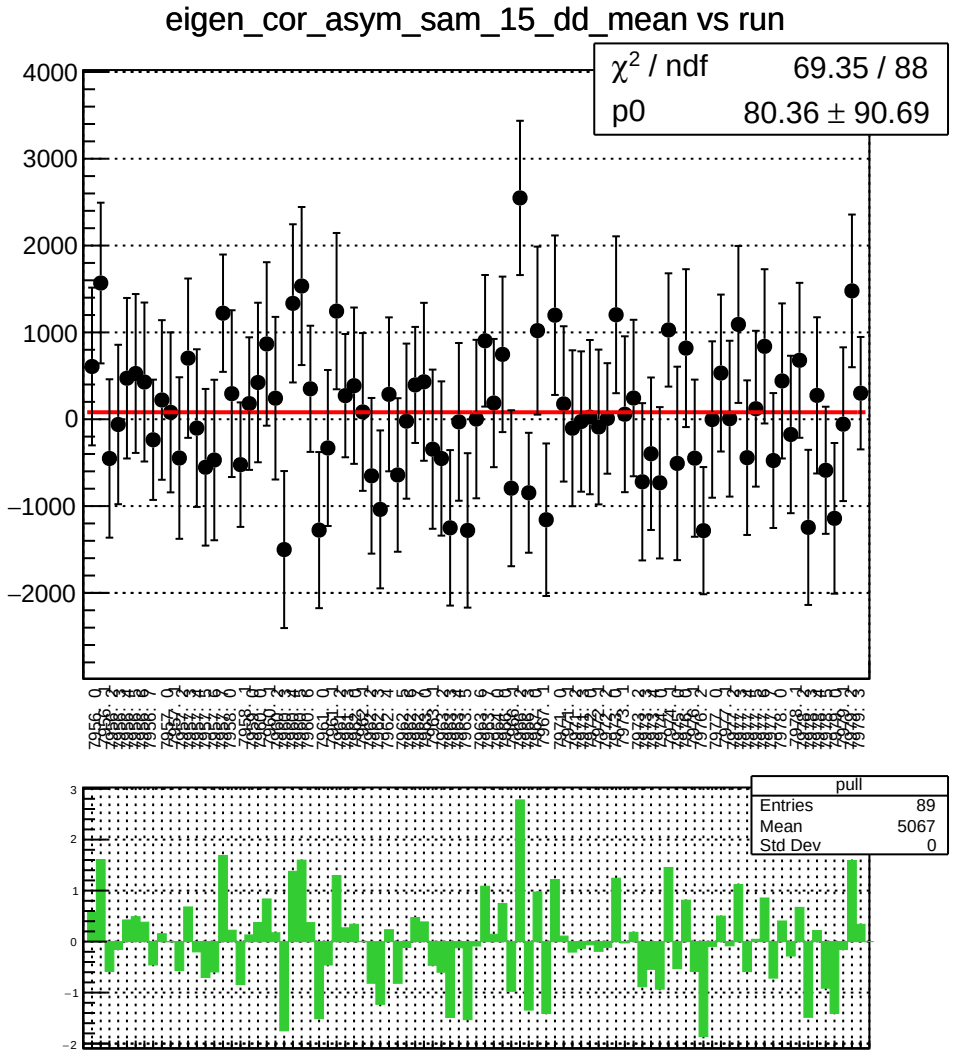

pull1D
Entries 89
Mean −0.0003796
Std Dev 0.8827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

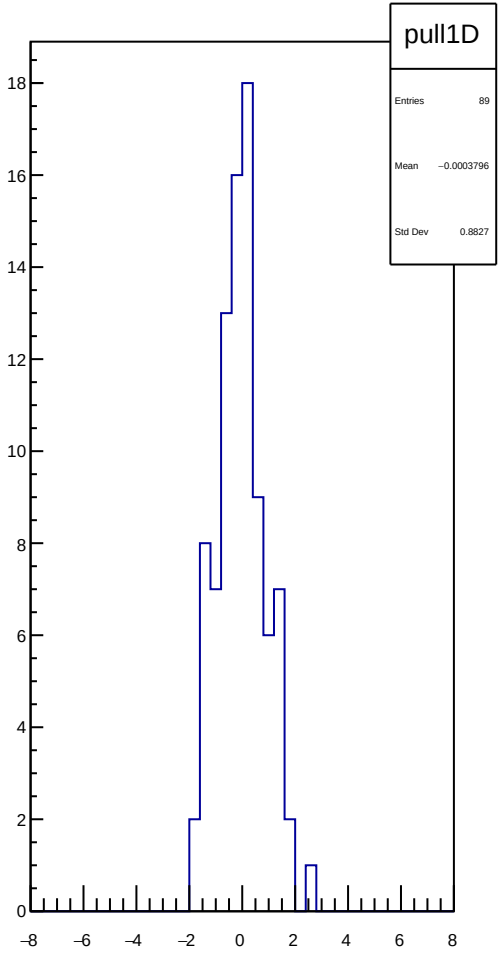

cor_asym_sam_15_dd_rms vs run
χ² / ndf 599.4 / 88
p0 85.8 ± 0.06413
92
90
88
86
84
82

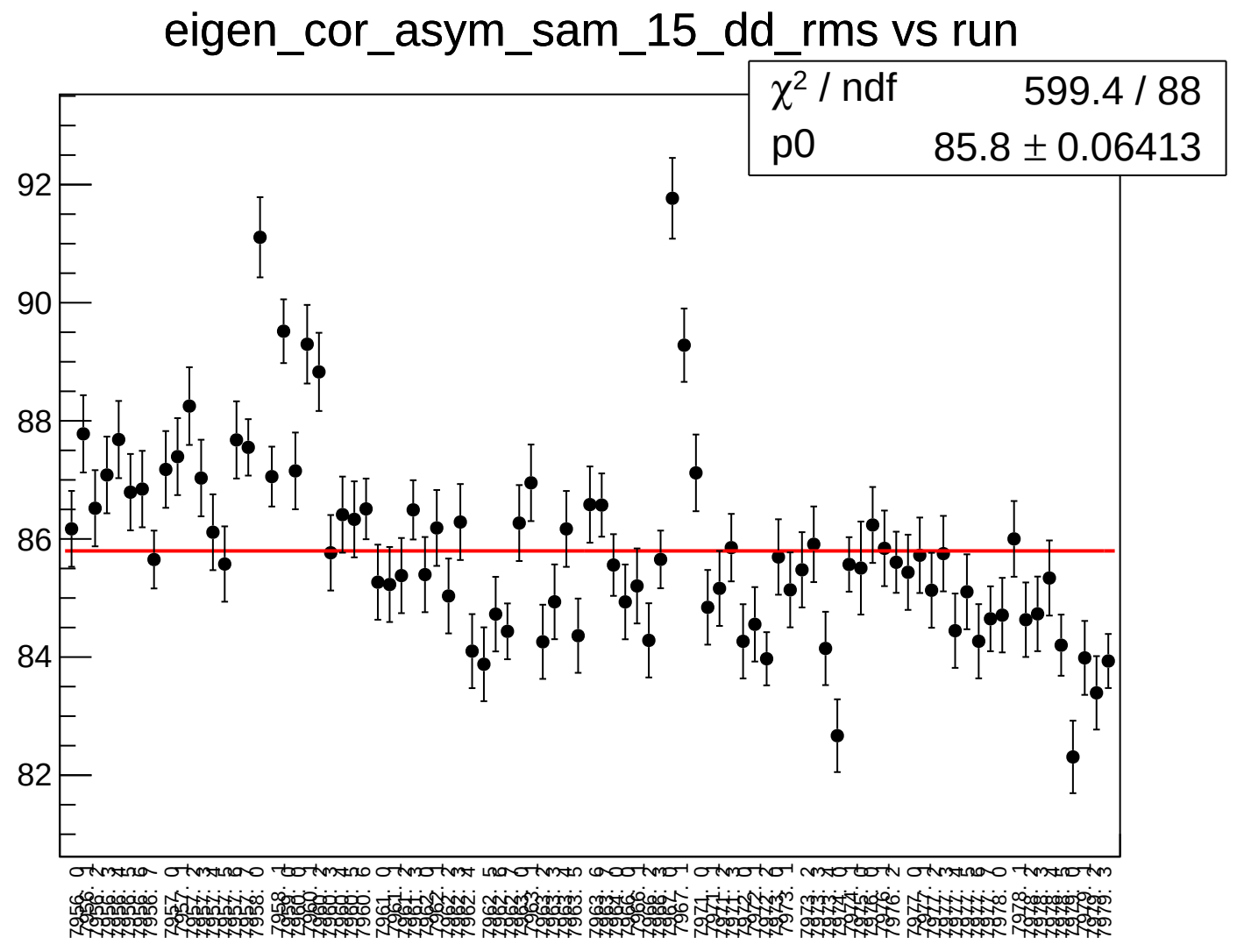

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 100.8 / 88
p0 862.6 ± 626.5
pull
Entries 89
Mean −433.6
Std Dev 0

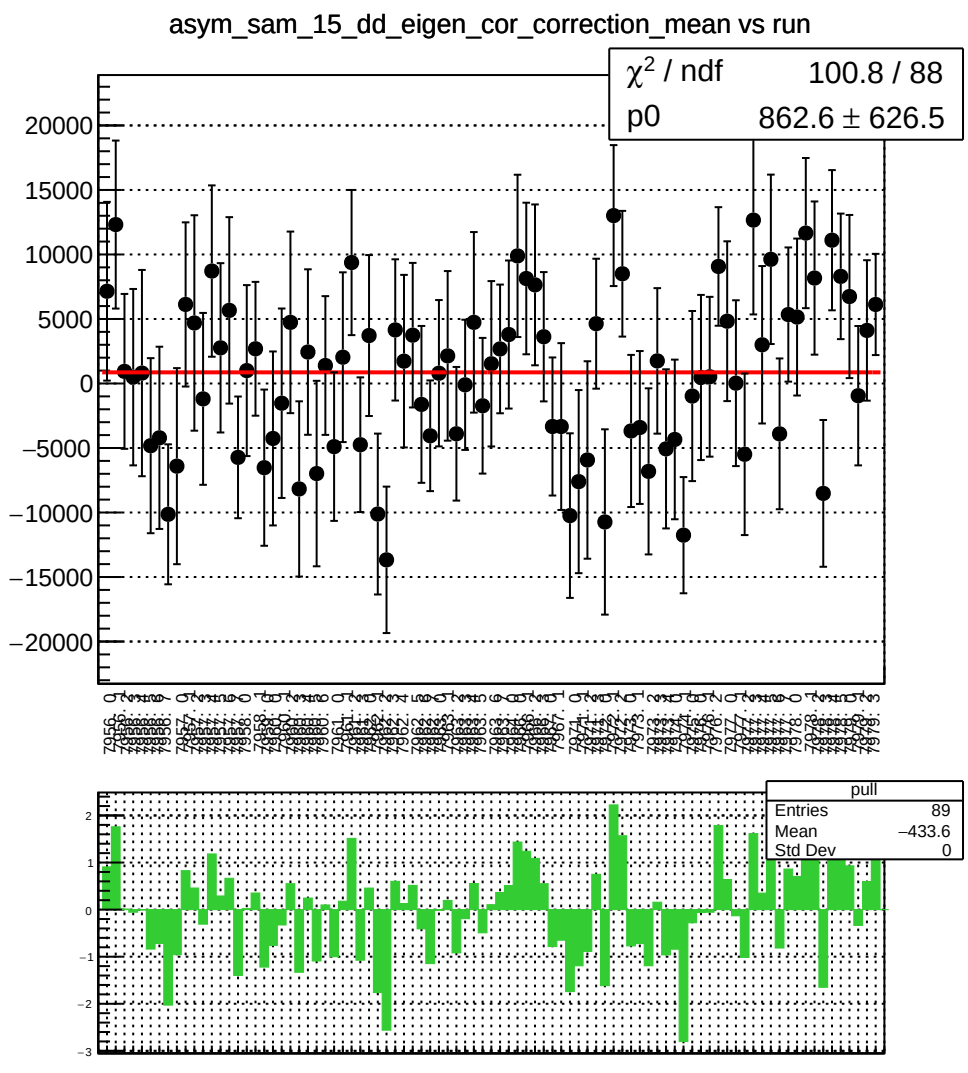

pull1D
Entries 89
Mean −0.0105
Std Dev 1.064

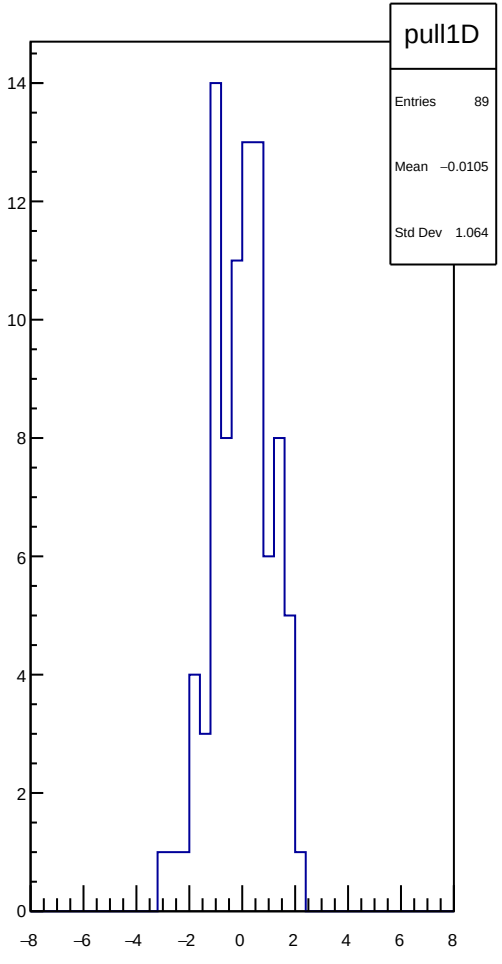

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1.837e+04 / 88
p0 589.7 ± 0.443
800
750
700
650
600
550
500
450

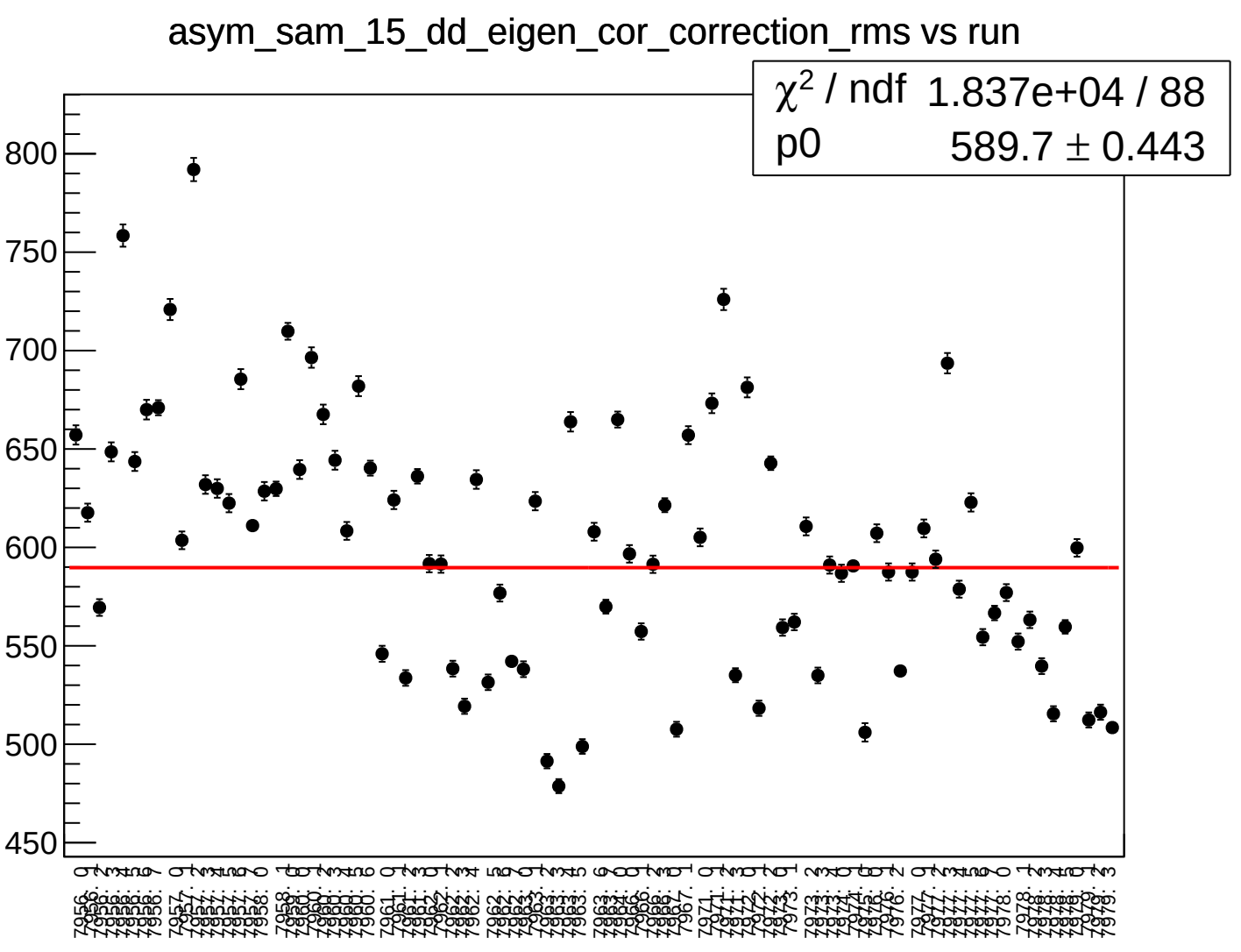

eigen_cor_asym_sam_15_dd_mean vs run
$\chi^2$ / ndf 69.35 / 88
p0 80.36 ± 90.69
pull
Entries 89
Mean 5067
Std Dev 0

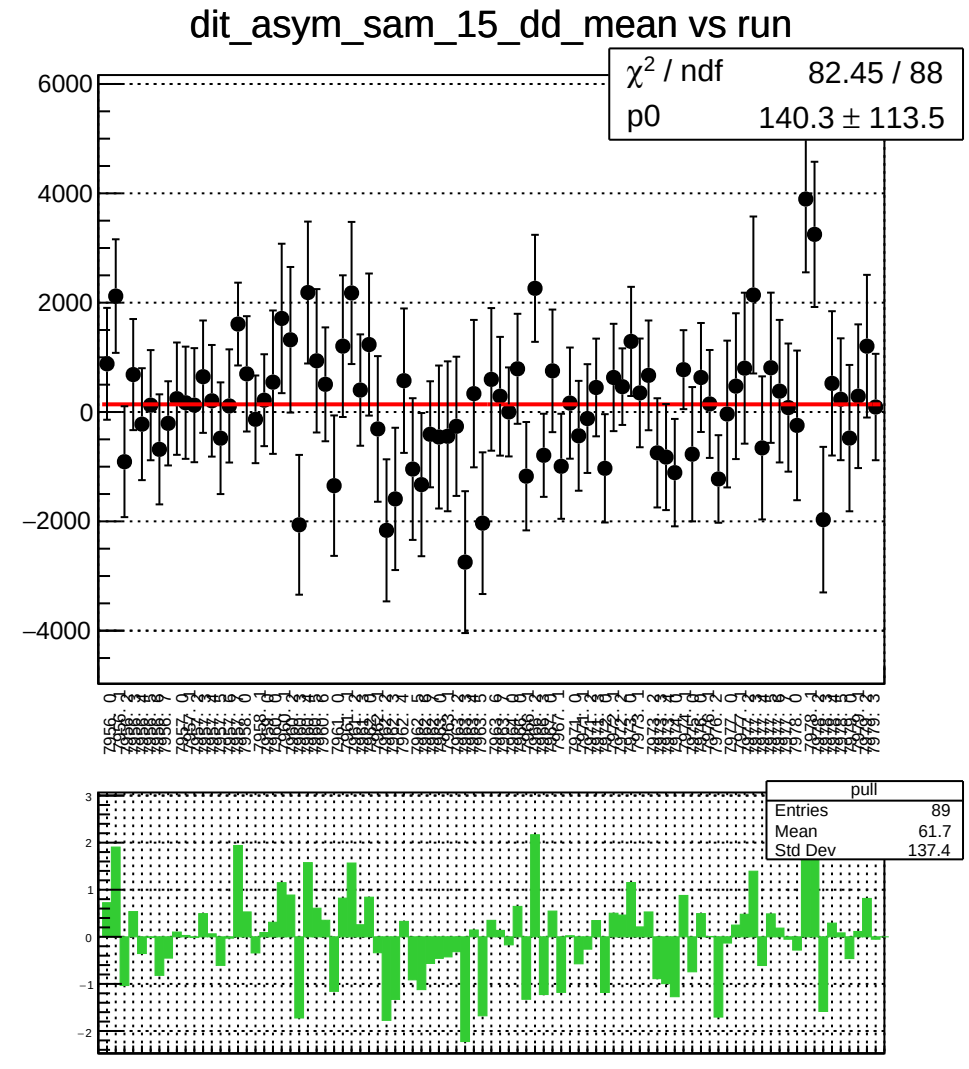

pull1D
Entries 89
Mean −0.0003796
Std Dev 0.8827

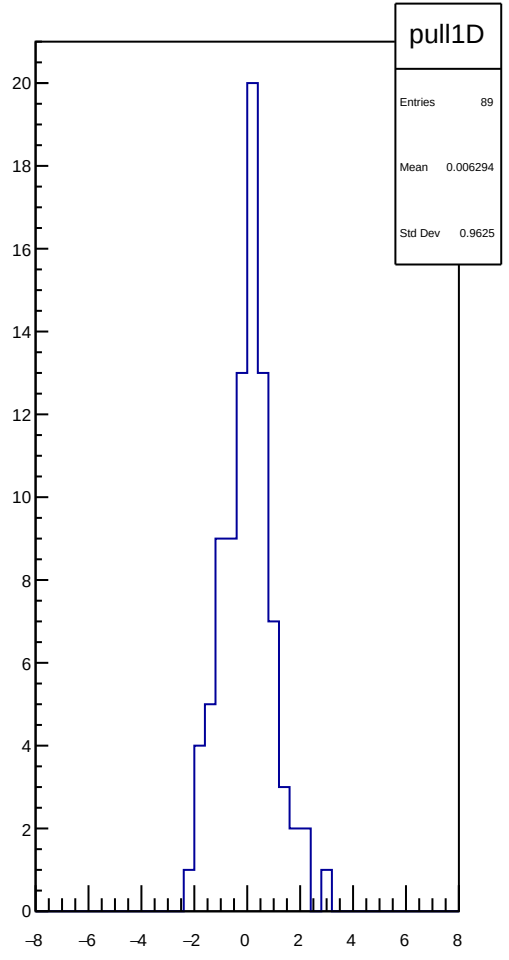

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 599.4 / 88
p0 85.8 ± 0.06413
92
90
88
86
84
82

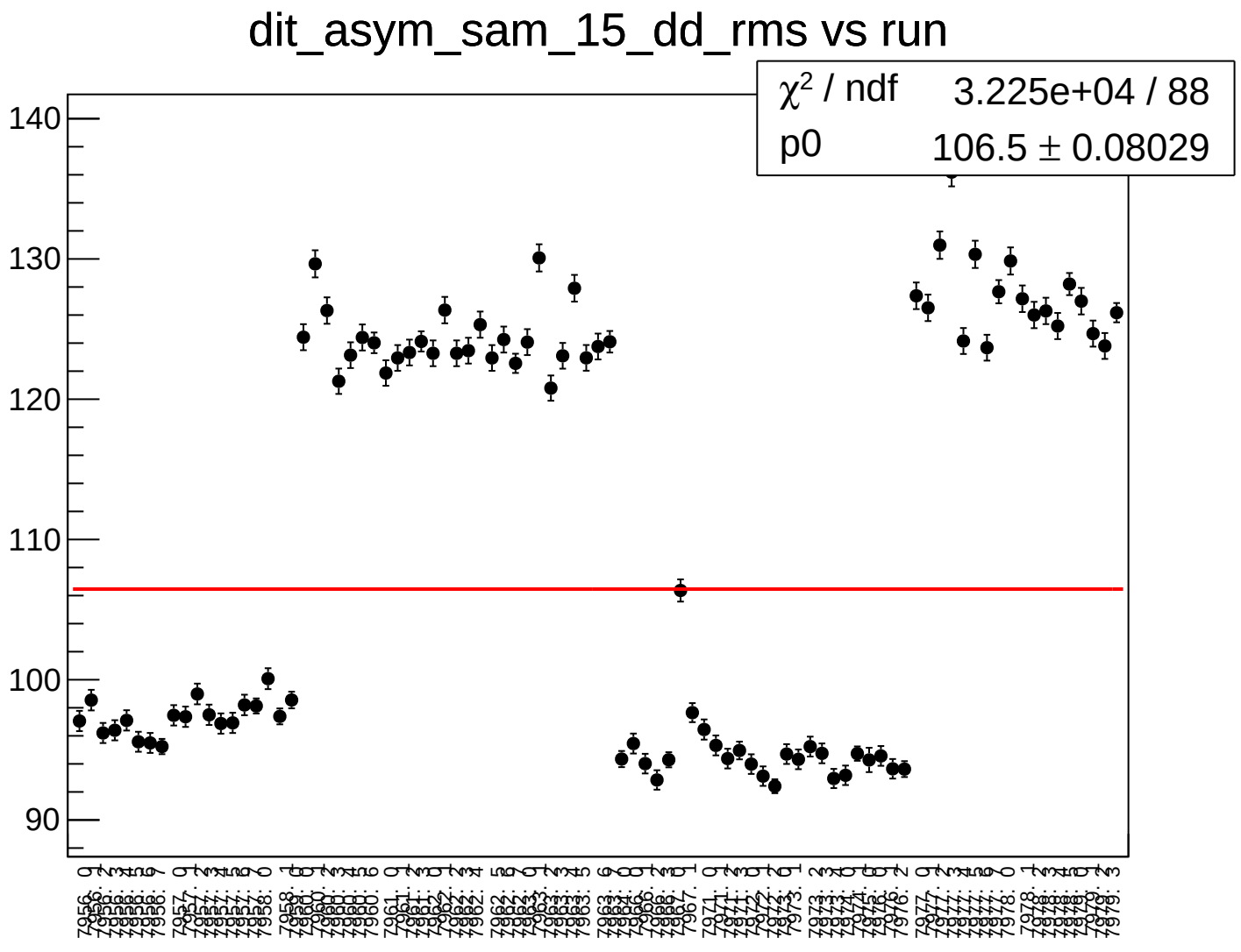

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.8 / 88
p0 862.6 ± 626.5
pull
Entries 89
Mean −433.6
Std Dev 0

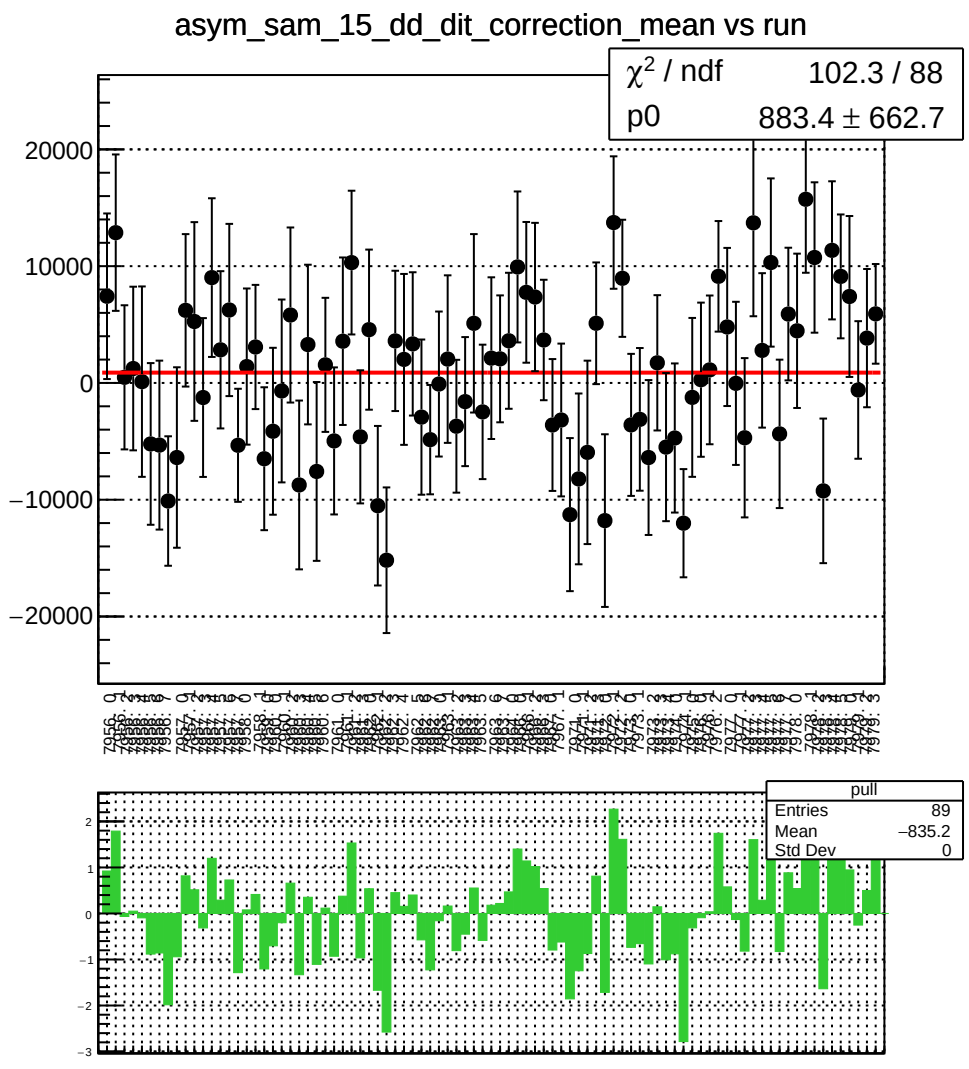

pull1D
Entries 89
Mean −0.0105
Std Dev 1.064

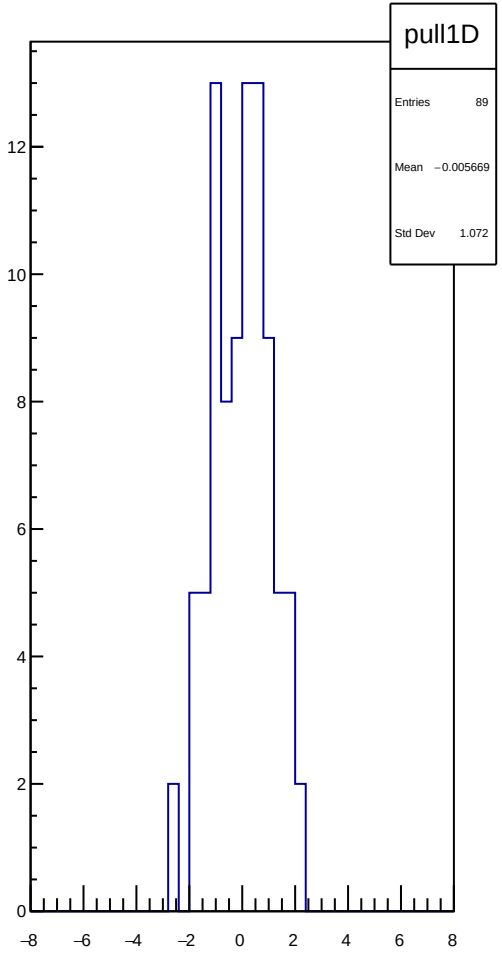

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.837e+04 / 88
p0 589.7 ± 0.443
800
750
700
650
600
550
500
450

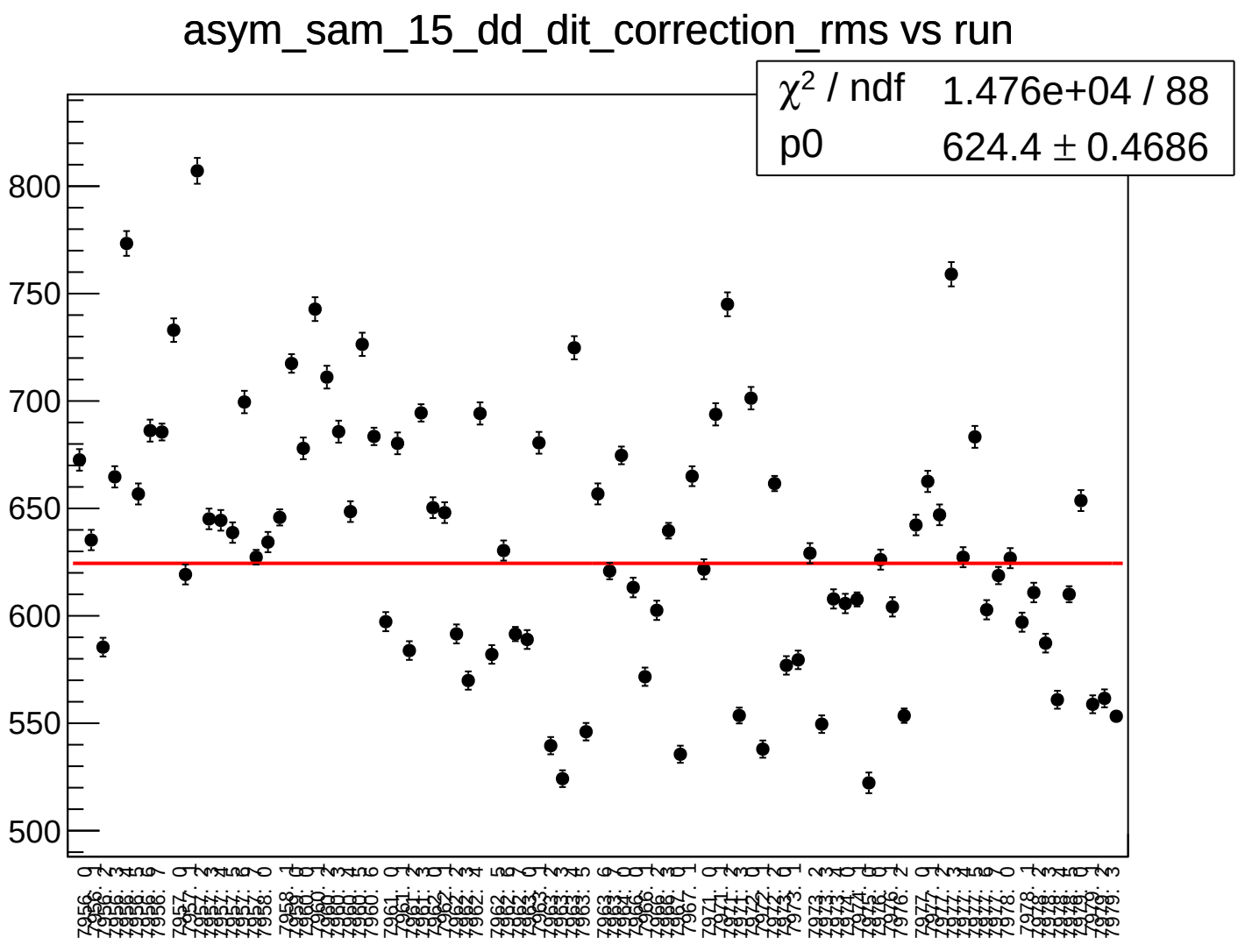

dit_asym_sam_15_dd_mean vs run
$\chi^2$ / ndf 82.45 / 88
p0 140.3 ± 113.5
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 61.7
Std Dev 137.4
3
2
1
0
−1
−2

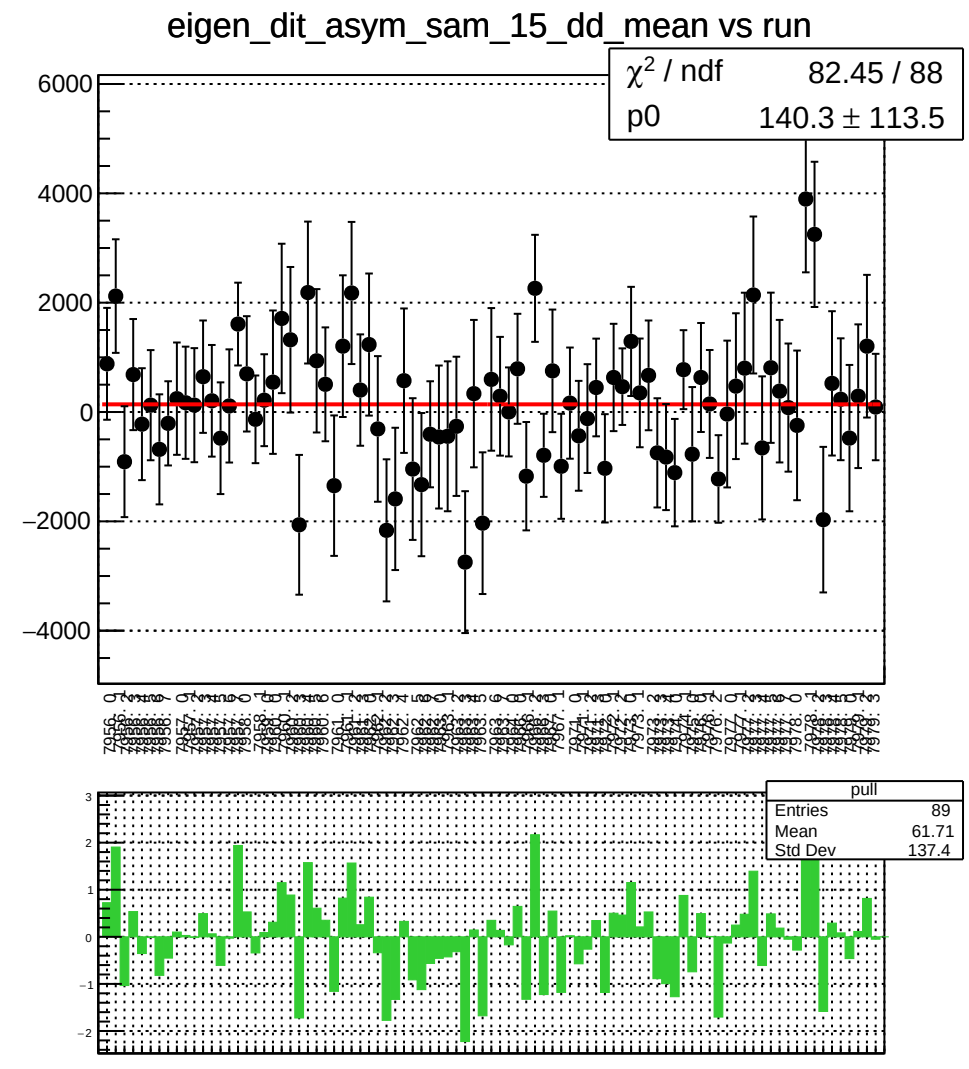

pull1D
Entries 89
Mean 0.006294
Std Dev 0.9625
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

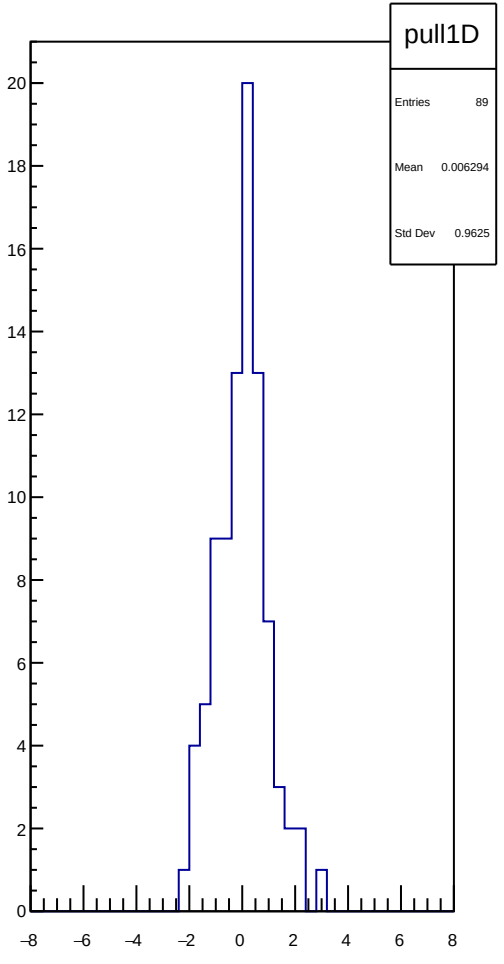

dit_asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 3.225e+04 / 88
p0 106.5 ± 0.08029
140
130
120
110
100
90

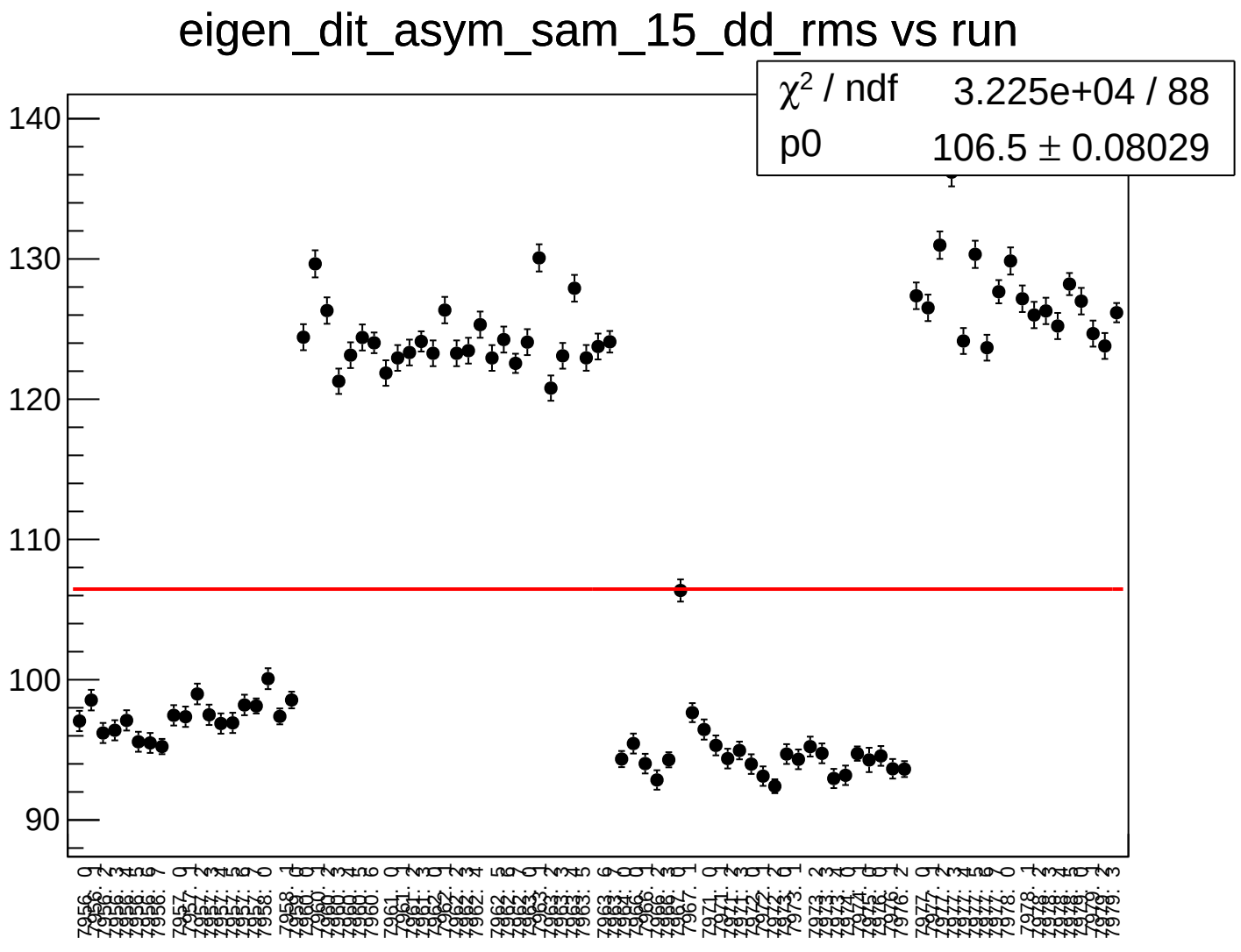

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 102.3 / 88
p0 883.4 ± 662.7
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −835.2
Std Dev 0
2
1
0
−1
−2
−3

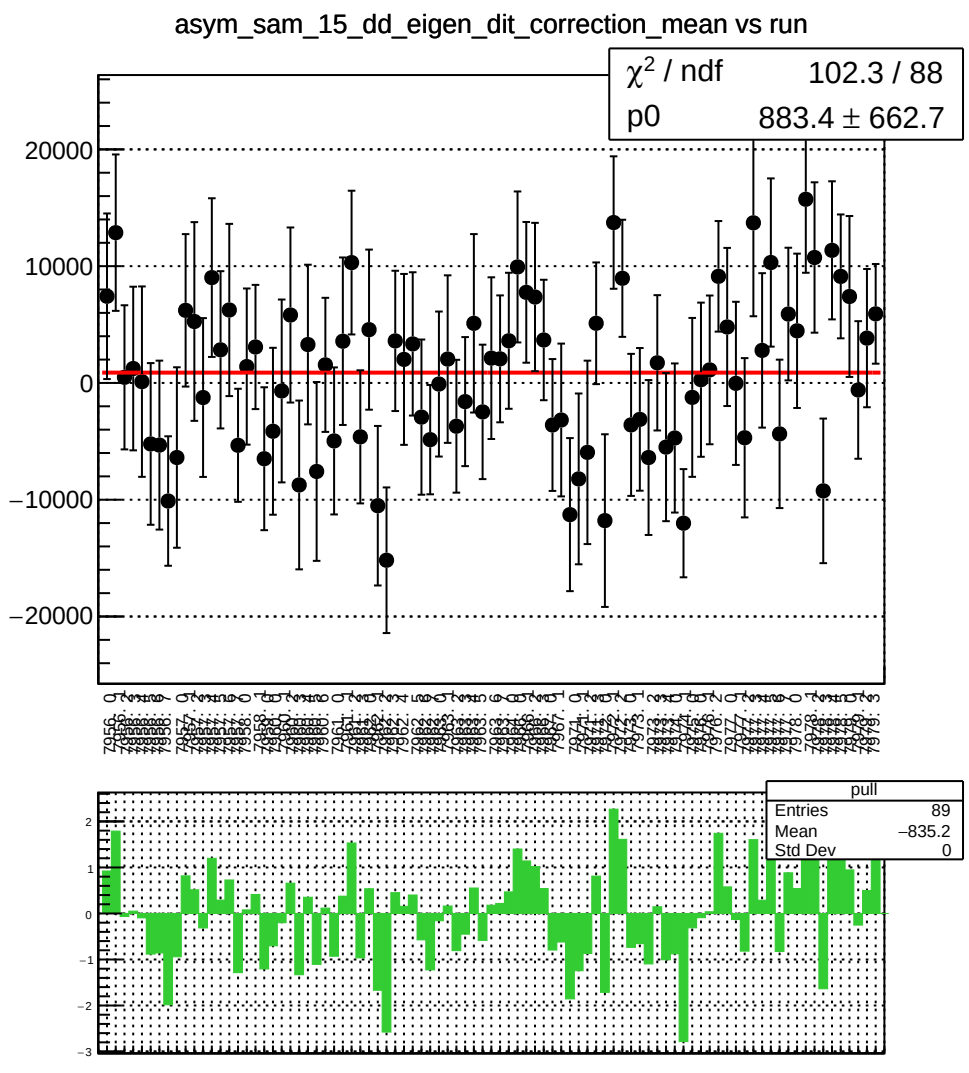

pull1D
Entries 89
Mean −0.005669
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

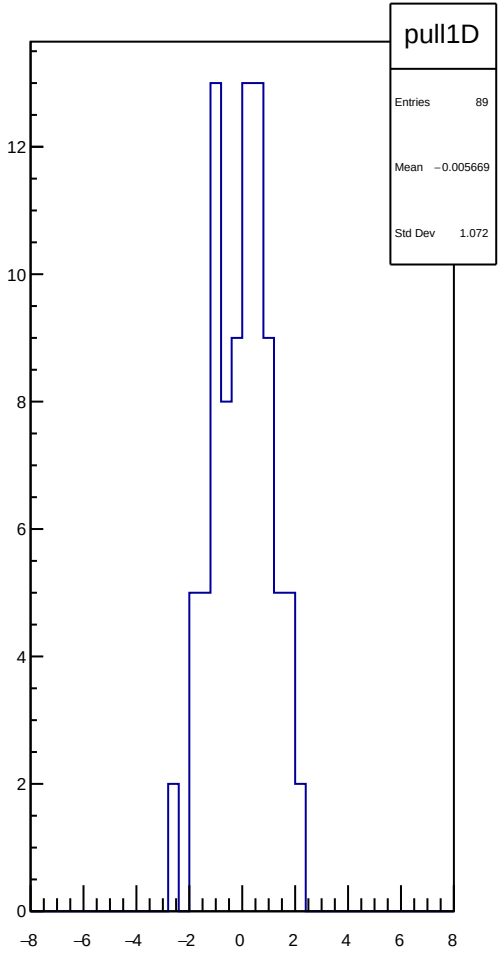

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 1.476e+04 / 88
p0 624.4 ± 0.4686
800
750
700
650
600
550
500

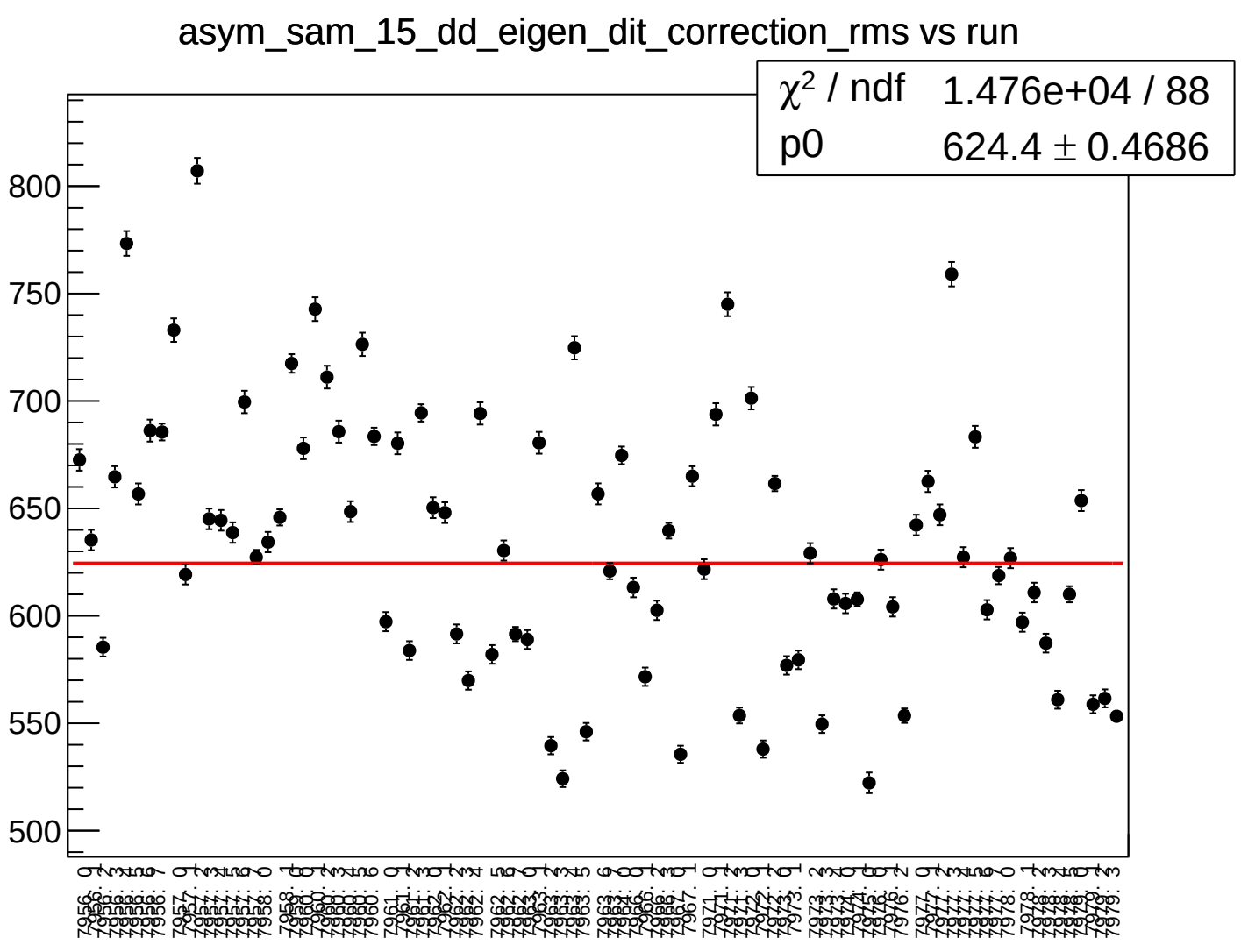

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 82.45 / 88
p0 140.3 ± 113.5
pull
Entries 89
Mean 61.71
Std Dev 137.4

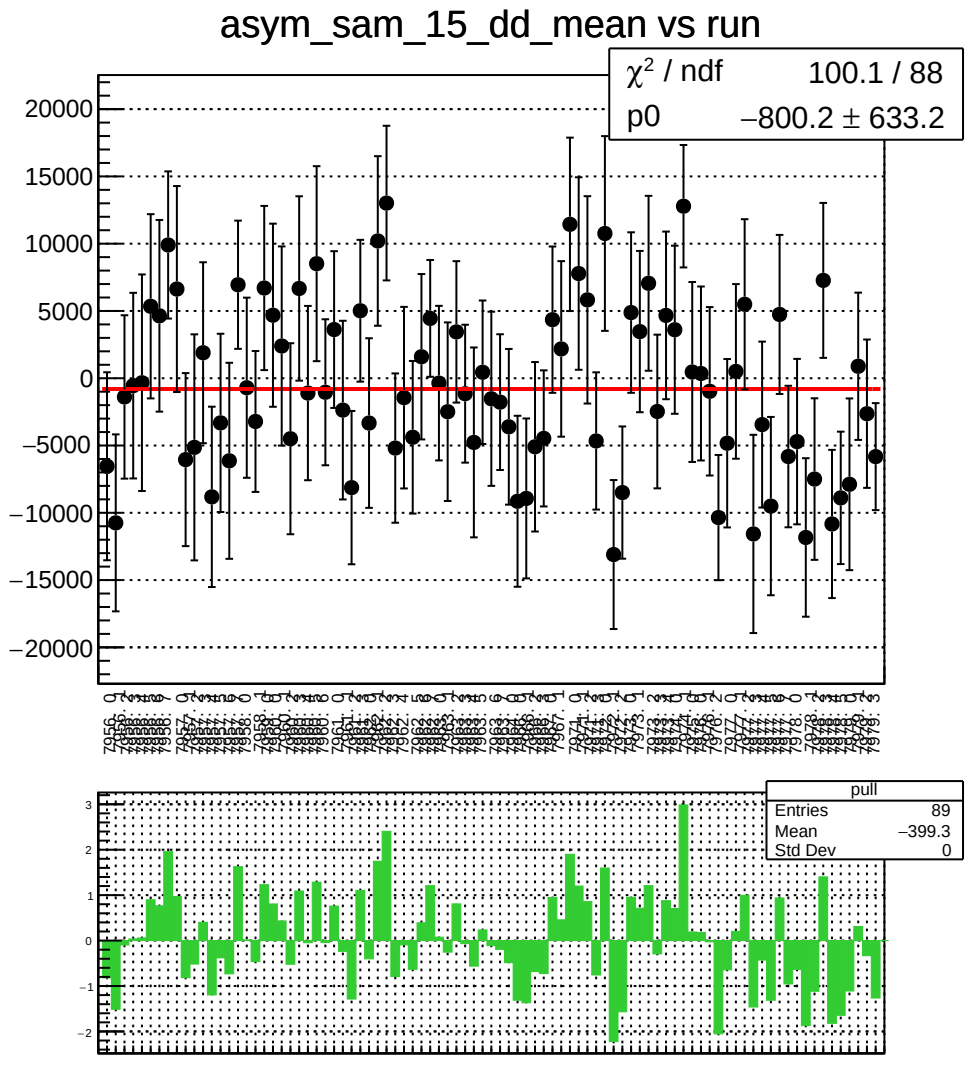

pull1D
Entries 89
Mean 0.006294
Std Dev 0.9625

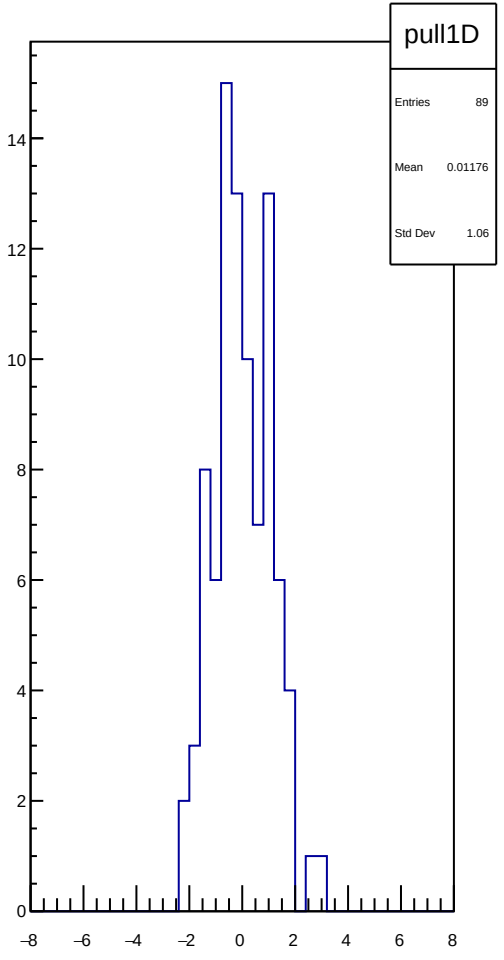

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 3.225e+04 / 88
p0 106.5 ± 0.08029
140
130
120
110
100
90

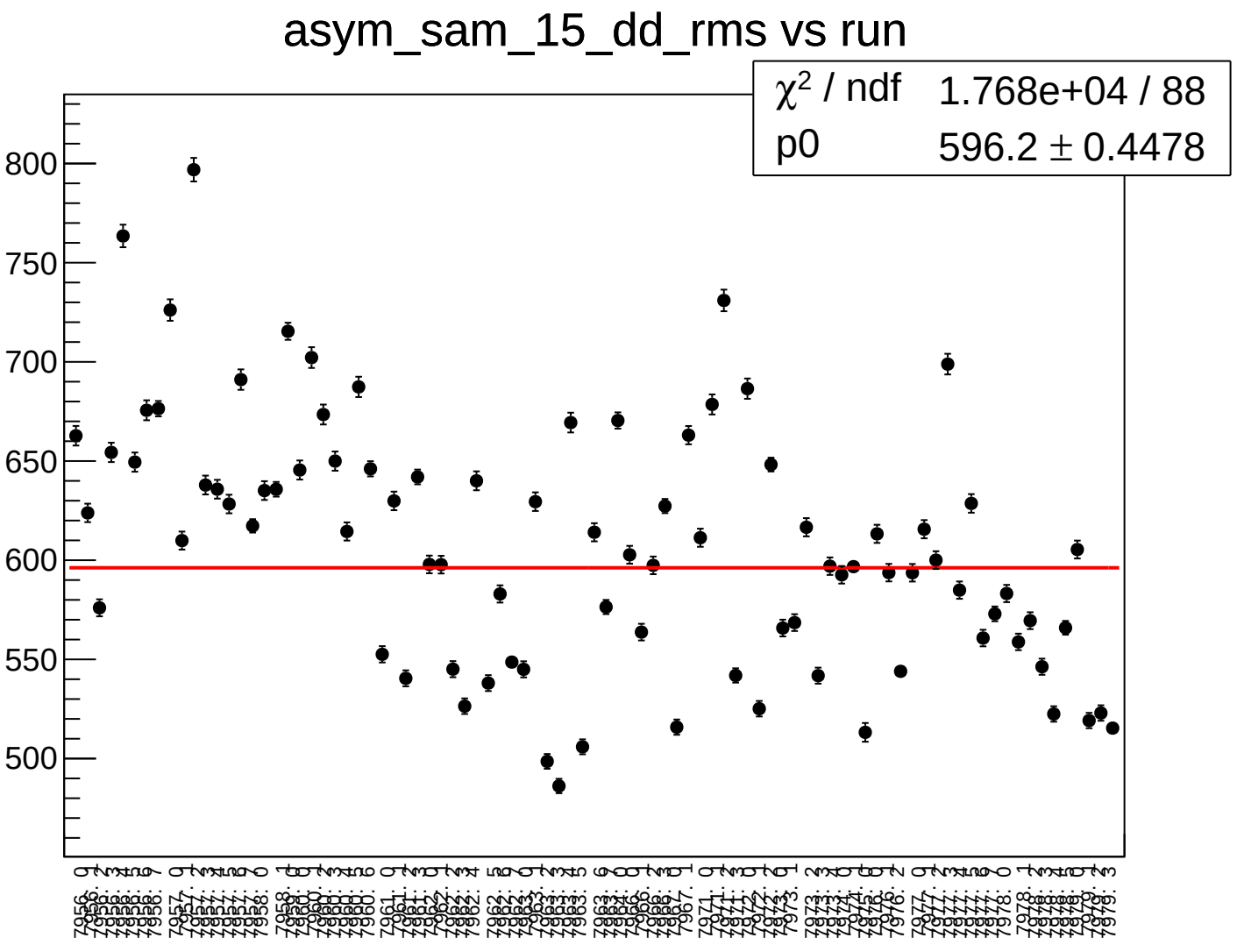

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.3 / 88
p0 883.4 ± 662.7
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −835.2
Std Dev 0
2
1
0
−1
−2
−3

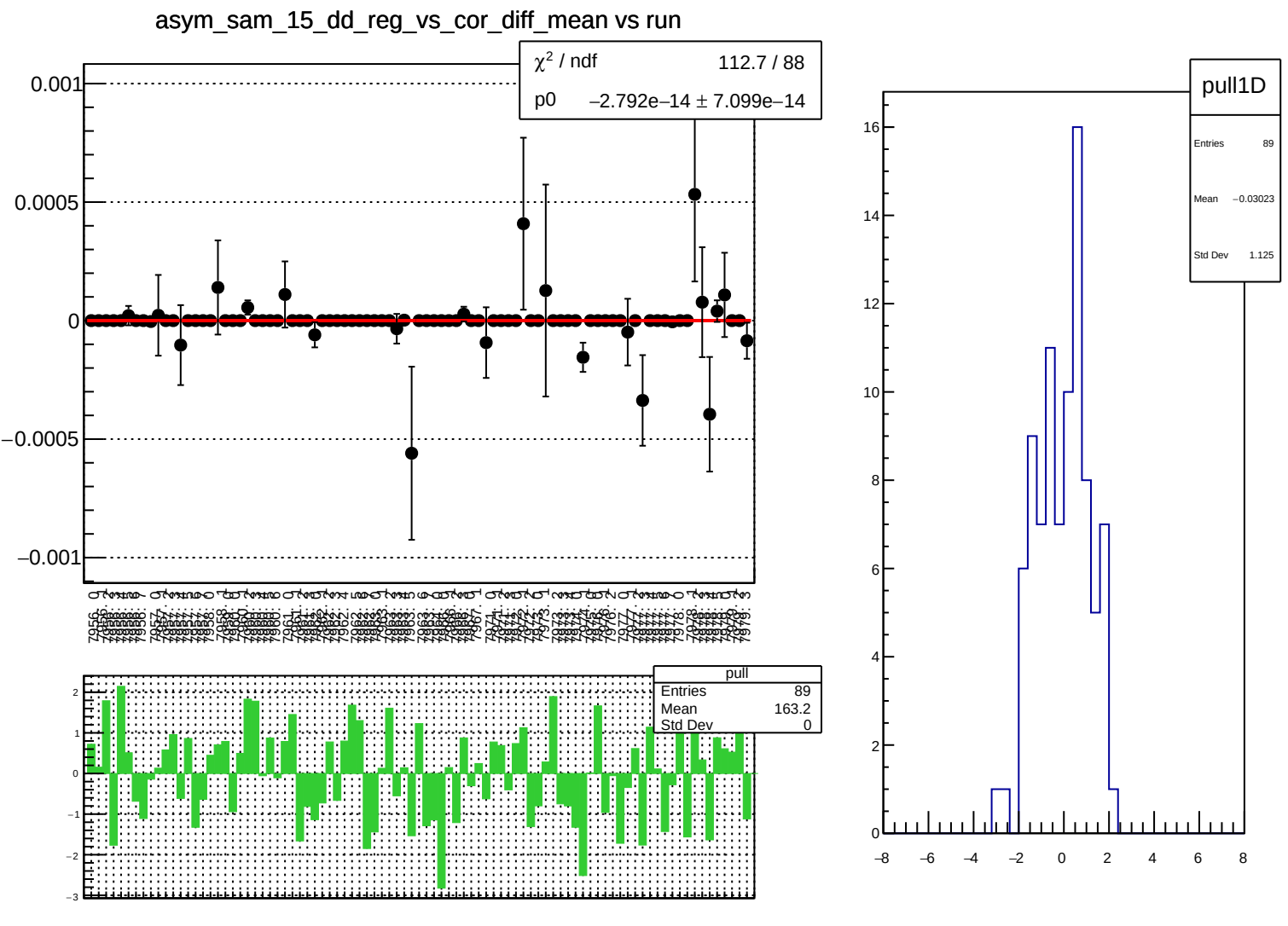

pull1D
Entries 89
Mean −0.005669
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

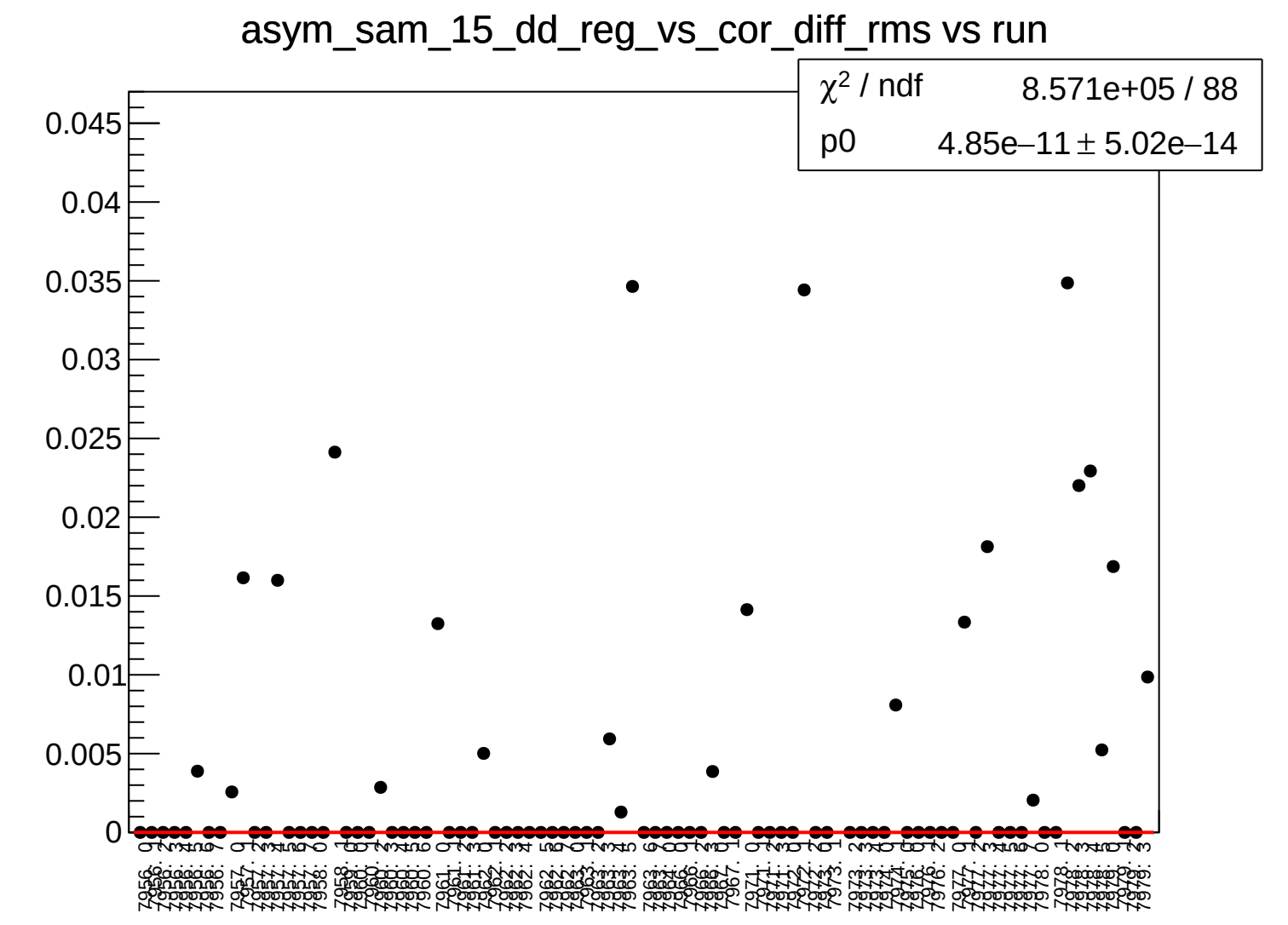

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.476e+04 / 88
p0 624.4 ± 0.4686
800
750
700
650
600
550
500

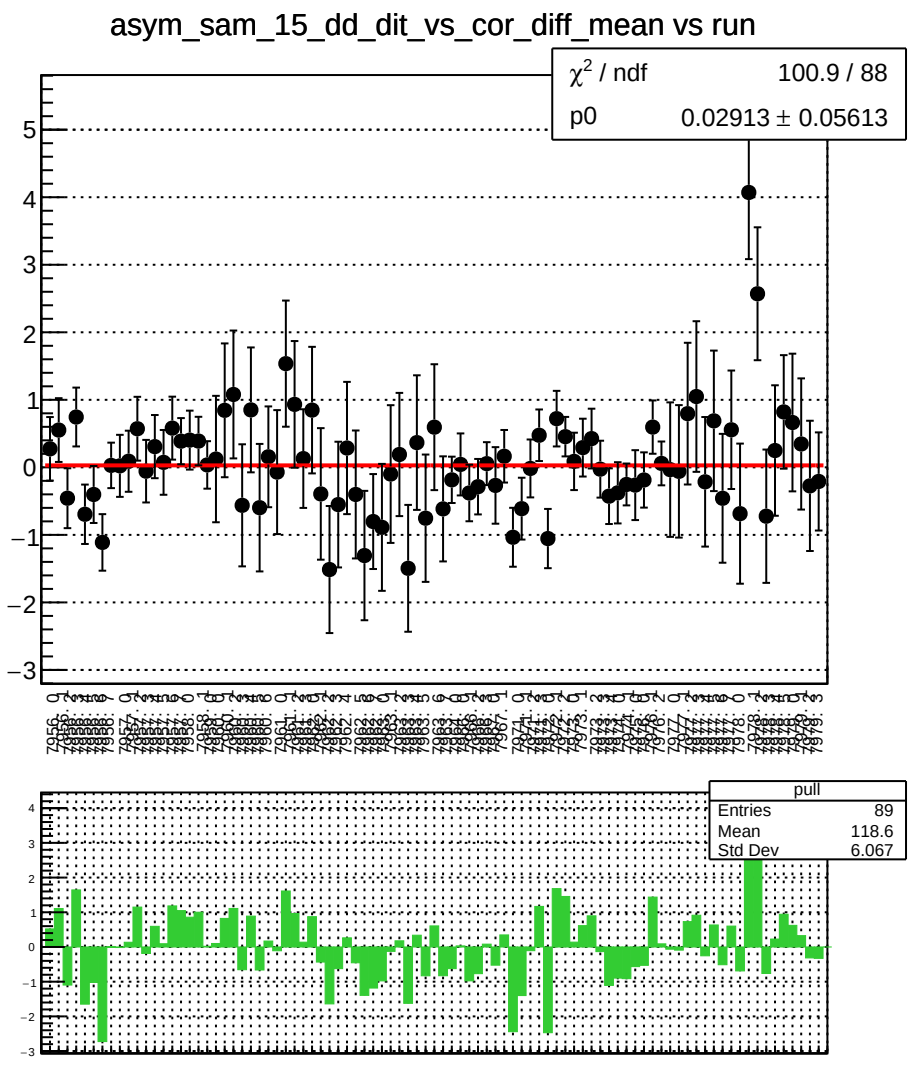

asym_sam_15_dd_mean vs run
χ² / ndf 100.1 / 88
p0 −800.2 ± 633.2
pull
Entries 89
Mean −399.3
Std Dev 0

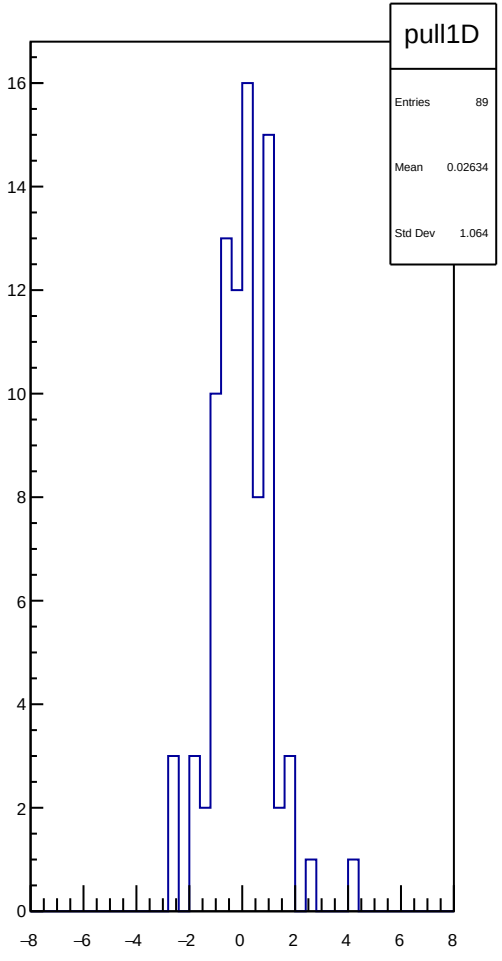

pull1D
Entries 89
Mean 0.01176
Std Dev 1.06

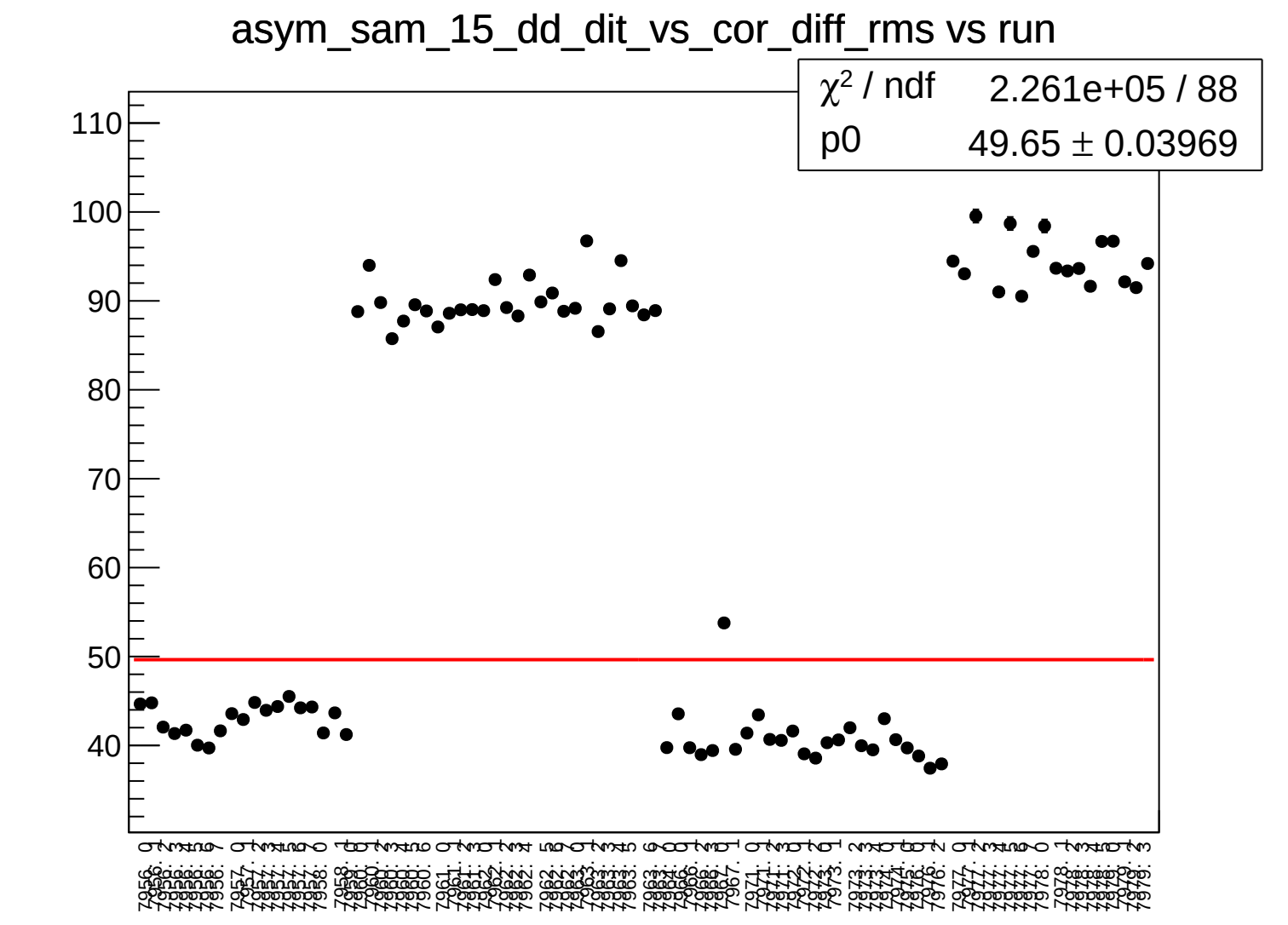

asym_sam_15_dd_rms vs run
χ² / ndf 1.768e+04 / 88
p0 596.2 ± 0.4478
800
750
700
650
600
550
500

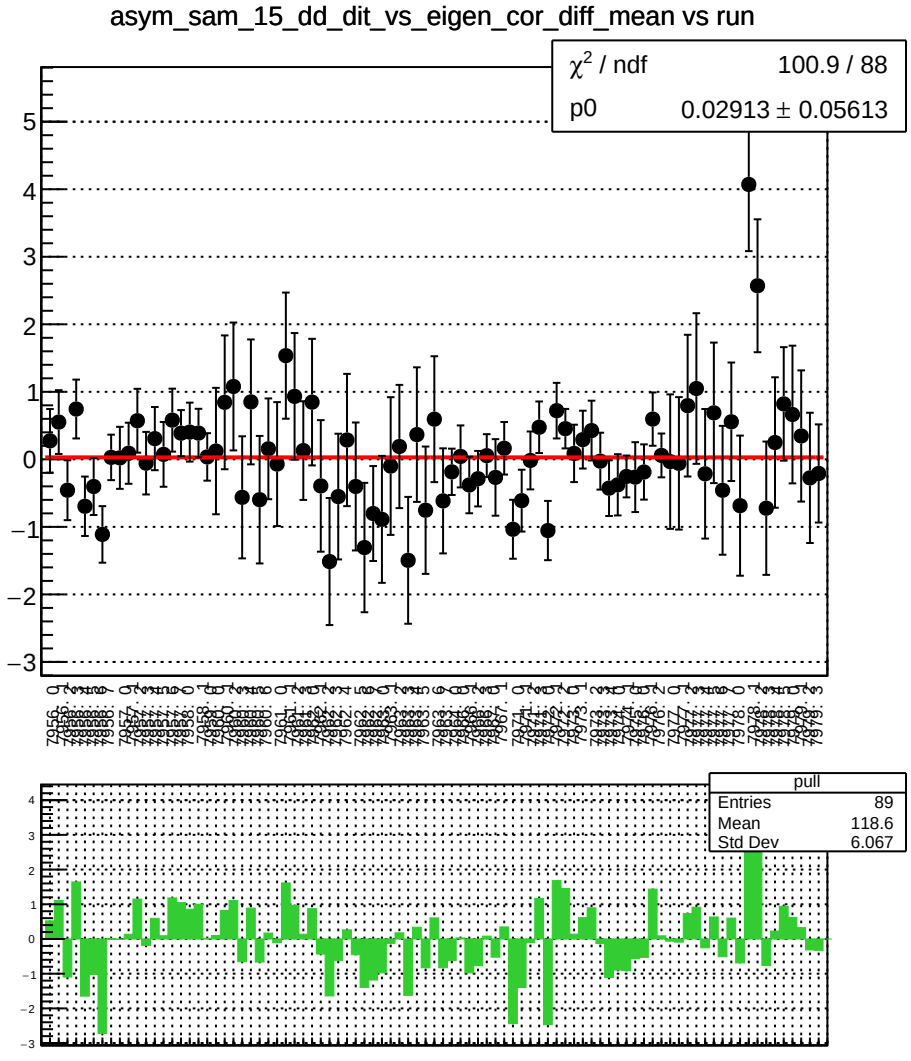

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 112.7 / 88
p0 −2.792e−14 ± 7.099e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 163.2
Std Dev 0
pull1D
Entries 89
Mean −0.03023
Std Dev 1.125

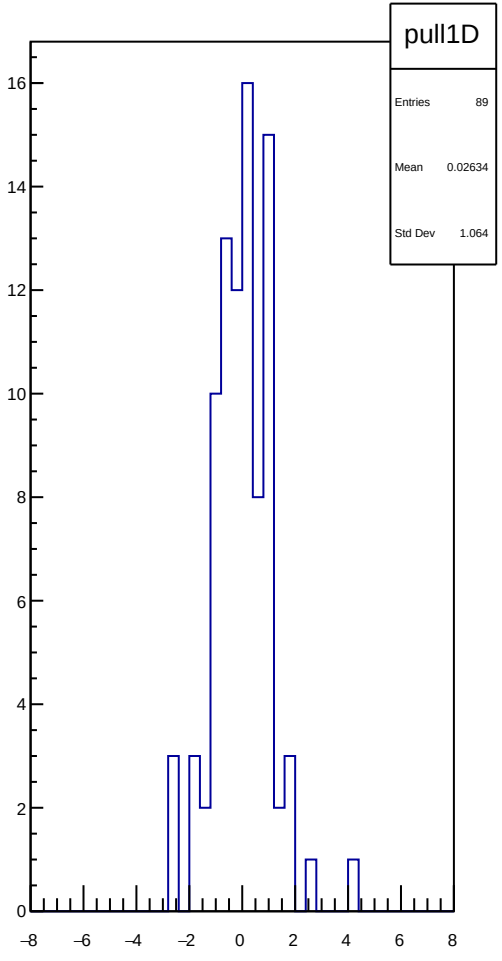

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.571e+05 / 88
p0 4.85e−11 ± 5.02e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

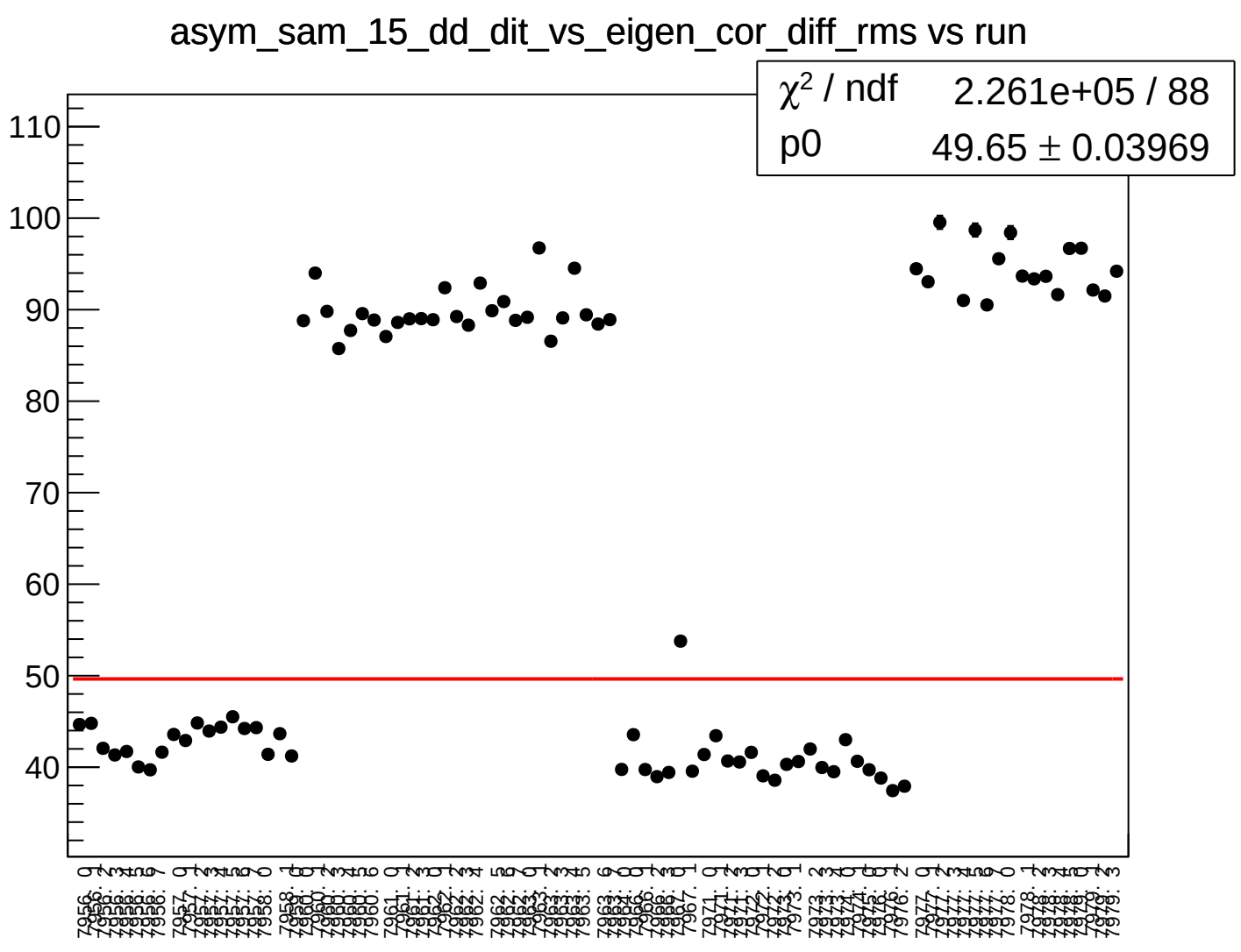

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 88
p0 0.02913 ± 0.05613
pull
Entries 89
Mean 118.6
Std Dev 6.067

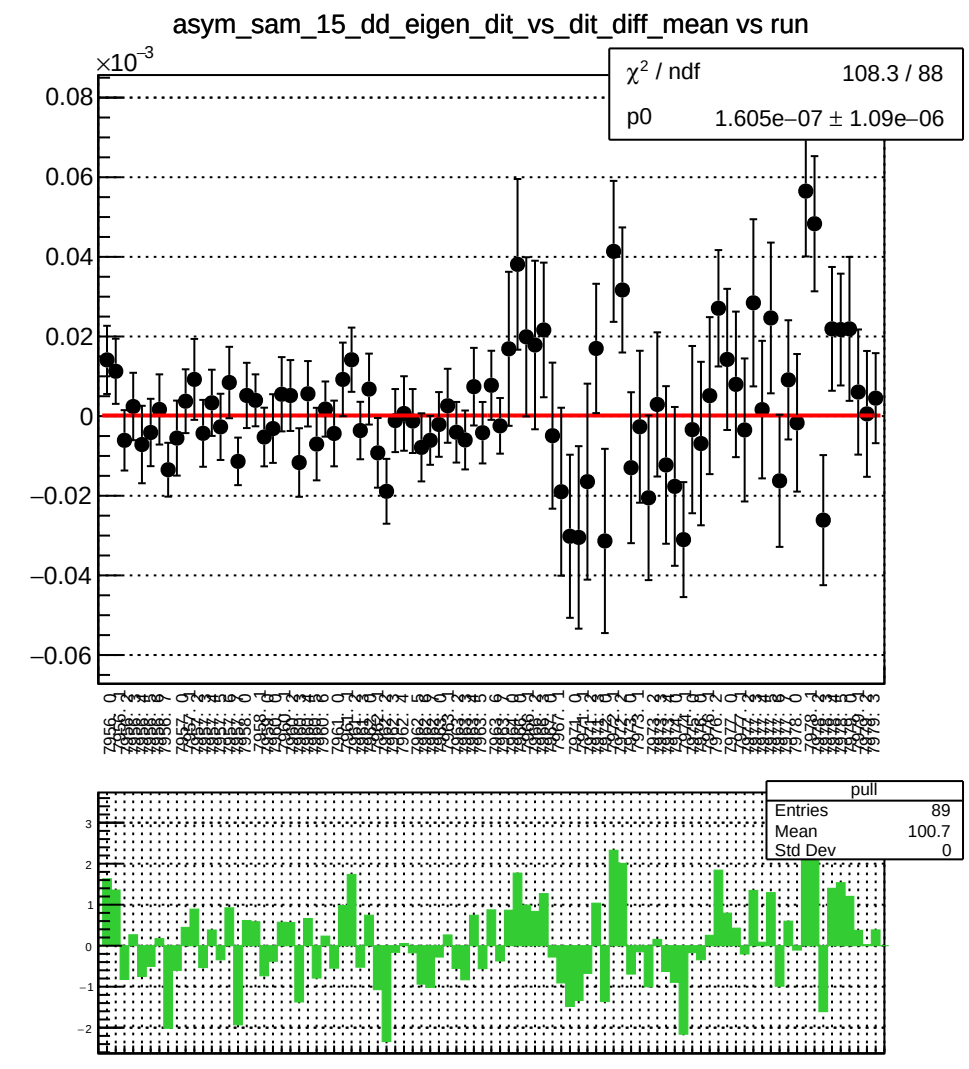

pull1D
Entries 89
Mean 0.02634
Std Dev 1.064

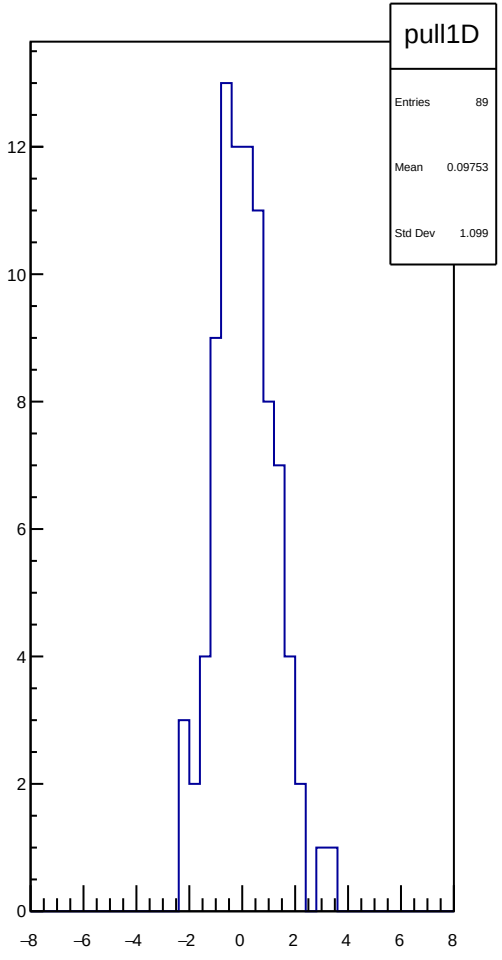

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.261e+05 / 88
p0 49.65 ± 0.03969
110
100
90
80
70
60
50
40

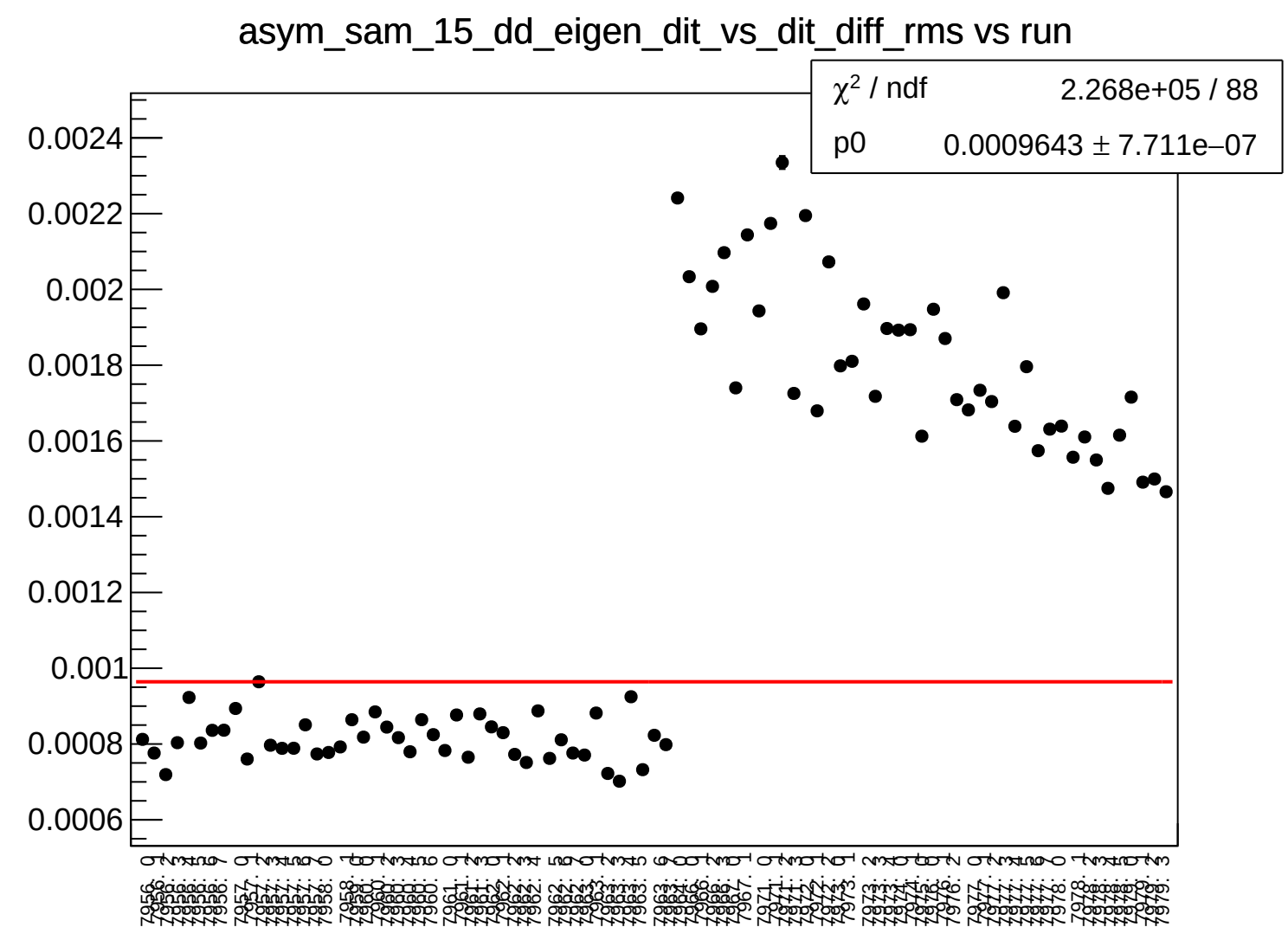

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 88
p0 0.02913 ± 0.05613
pull
Entries 89
Mean 118.6
Std Dev 6.067

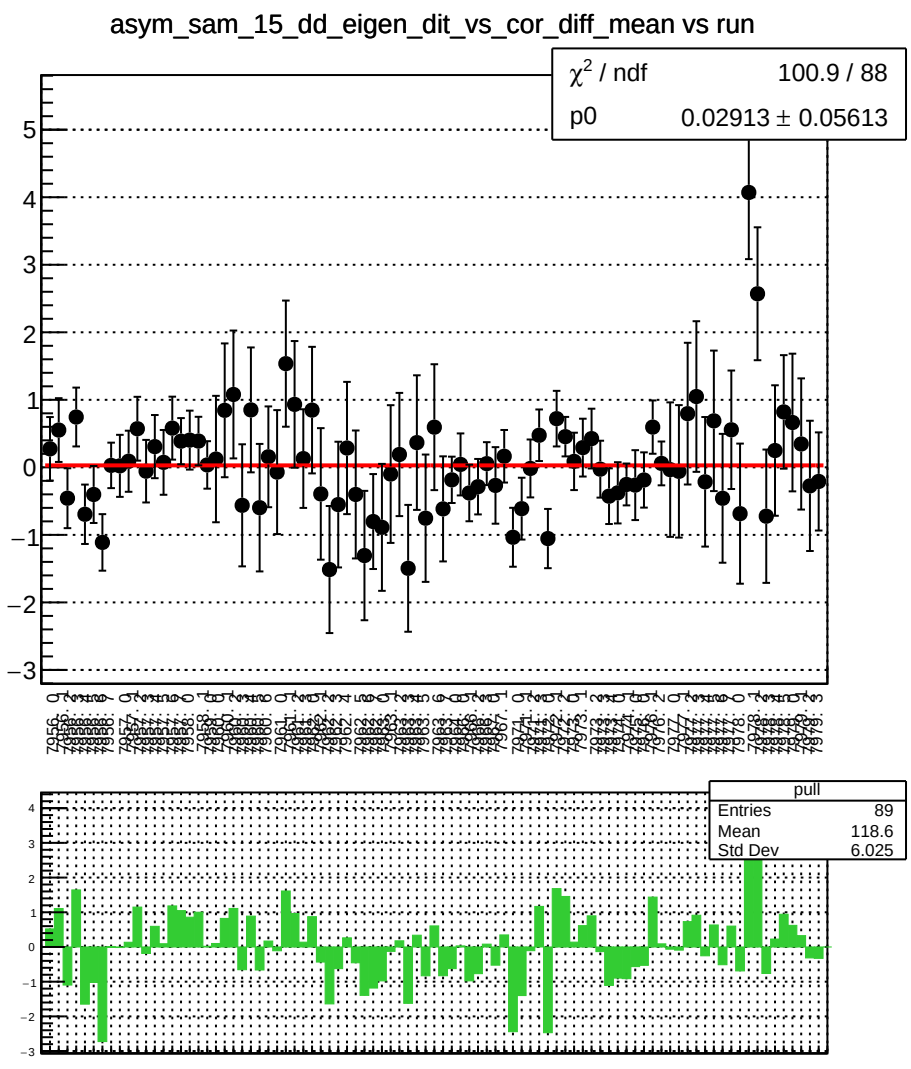

pull1D
Entries 89
Mean 0.02634
Std Dev 1.064

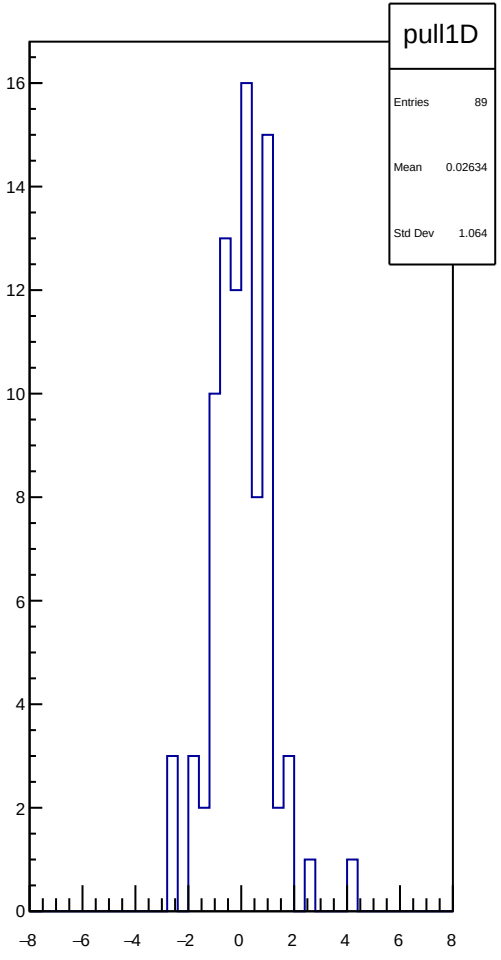

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.261e+05 / 88
p0 49.65 ± 0.03969
110
100
90
80
70
60
50
40

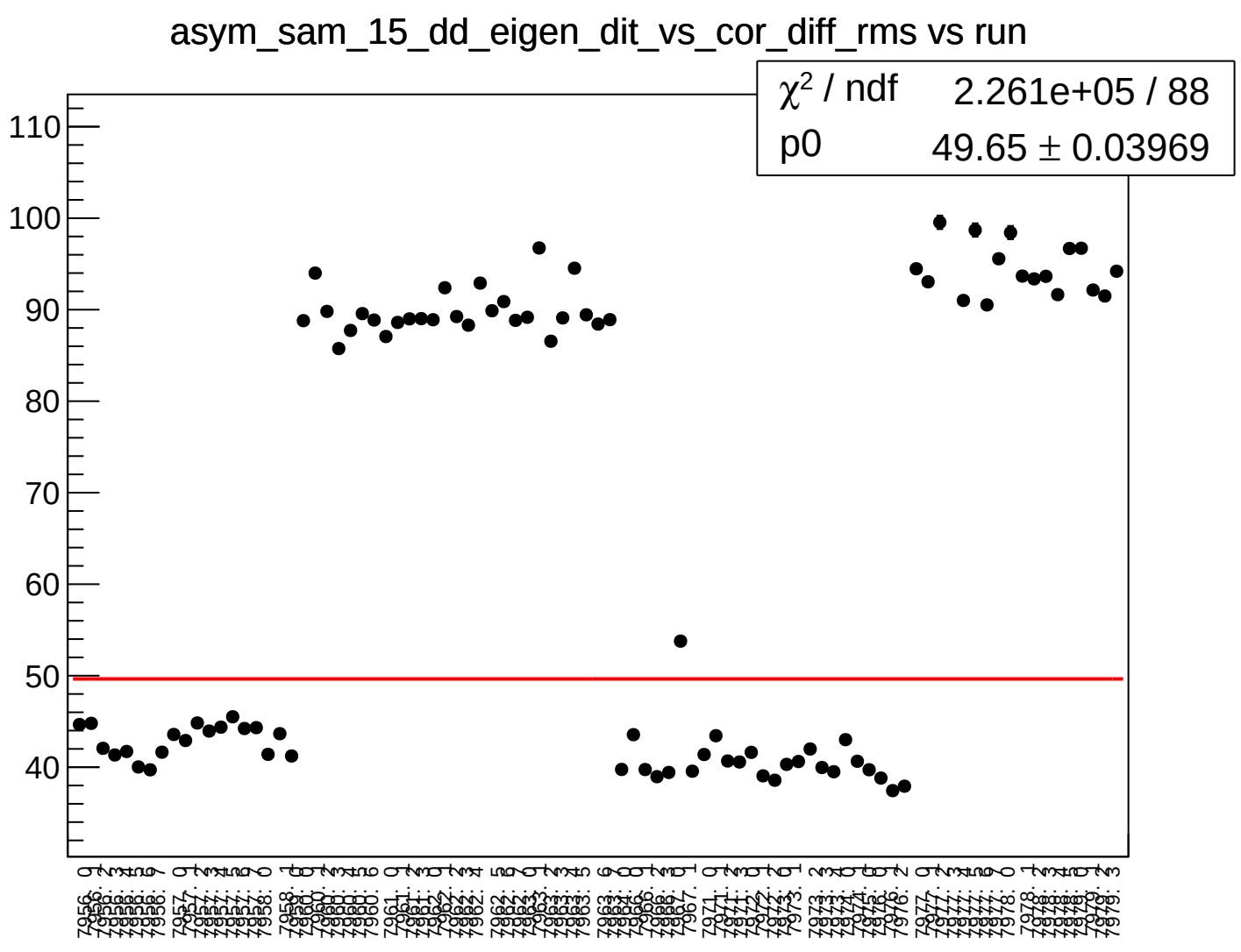

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 108.3 / 88
p0 1.605e−07 ± 1.09e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 100.7
Std Dev 0
3
2
1
0
−1
−2

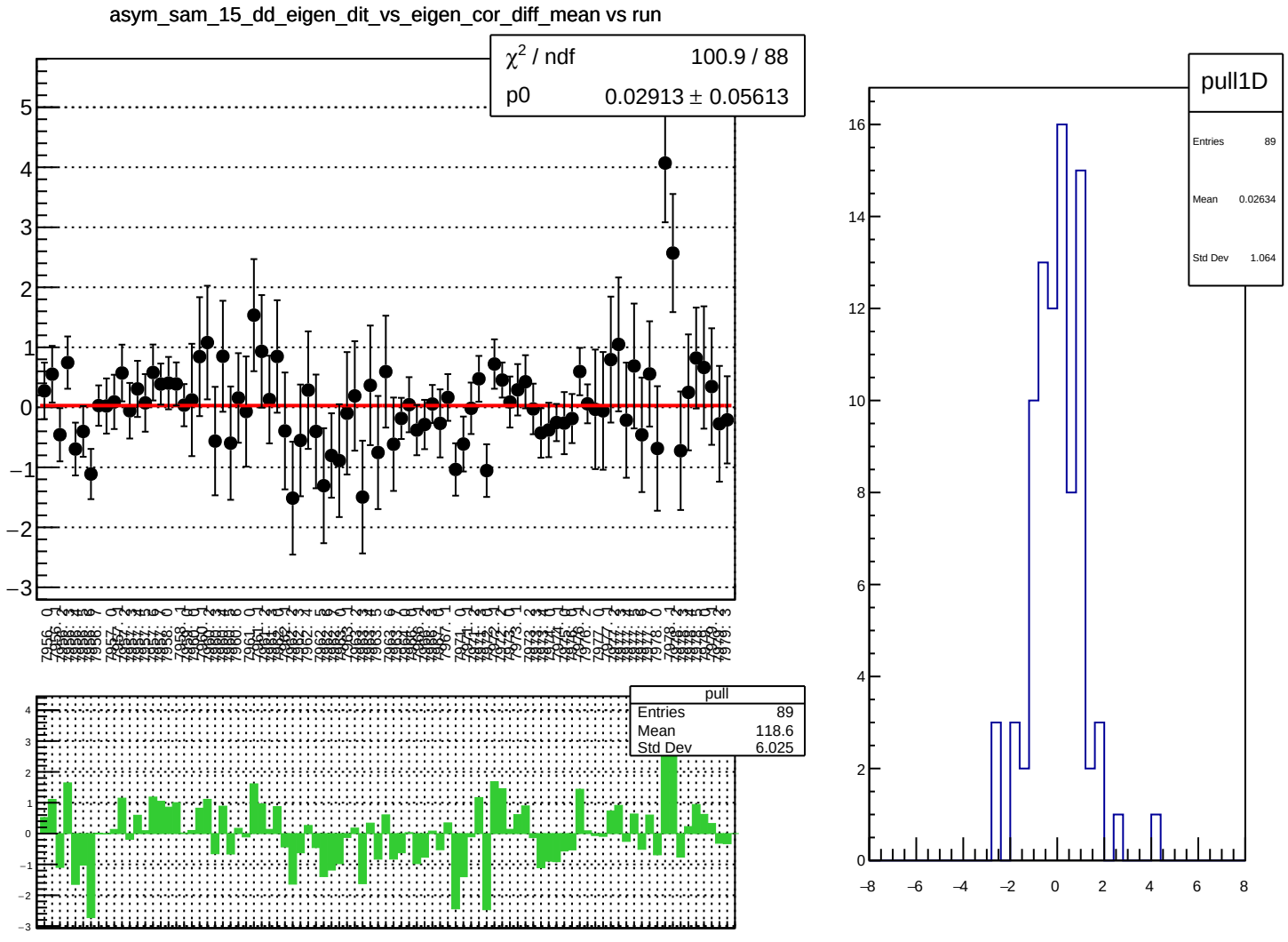

pull1D
Entries 89
Mean 0.09753
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

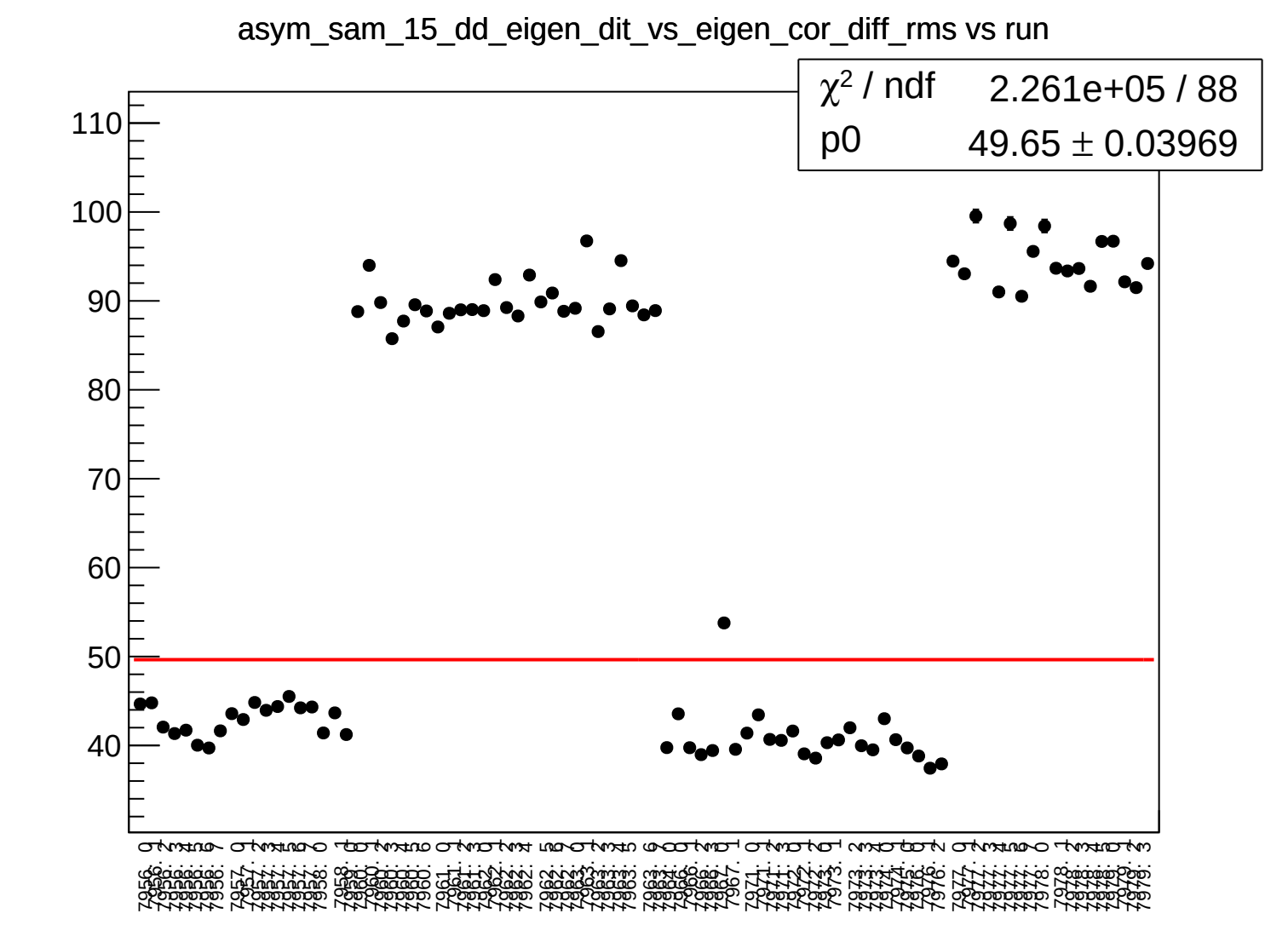

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.268e+05 / 88
p0 0.0009643 ± 7.711e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

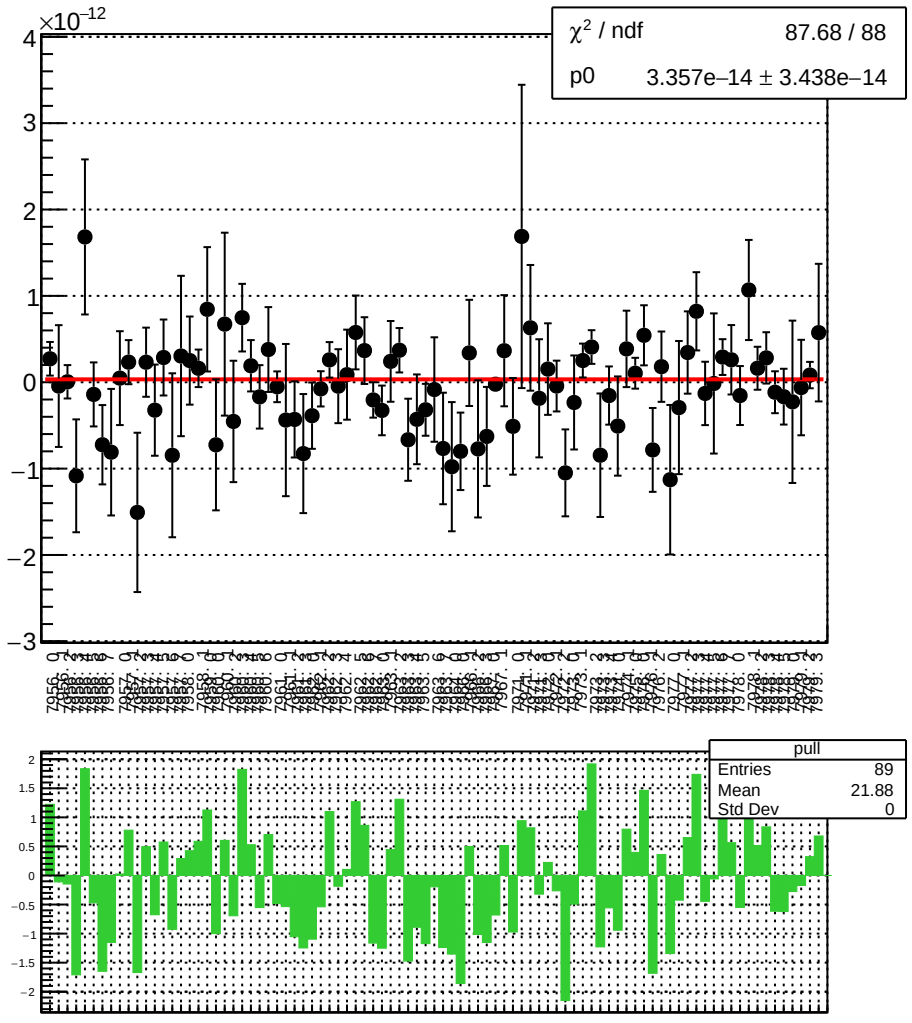

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 88
p0 0.02913 ± 0.05613
pull
Entries 89
Mean 118.6
Std Dev 6.025

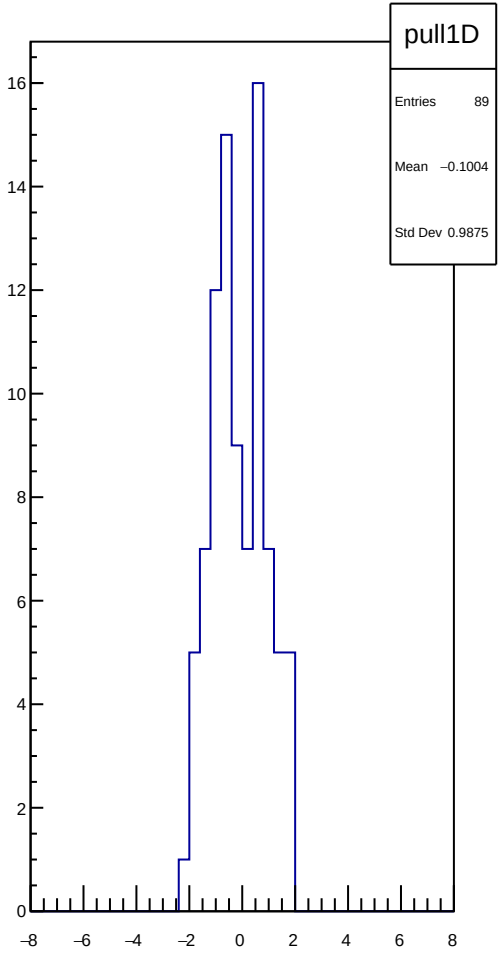

pull1D
Entries 89
Mean 0.02634
Std Dev 1.064

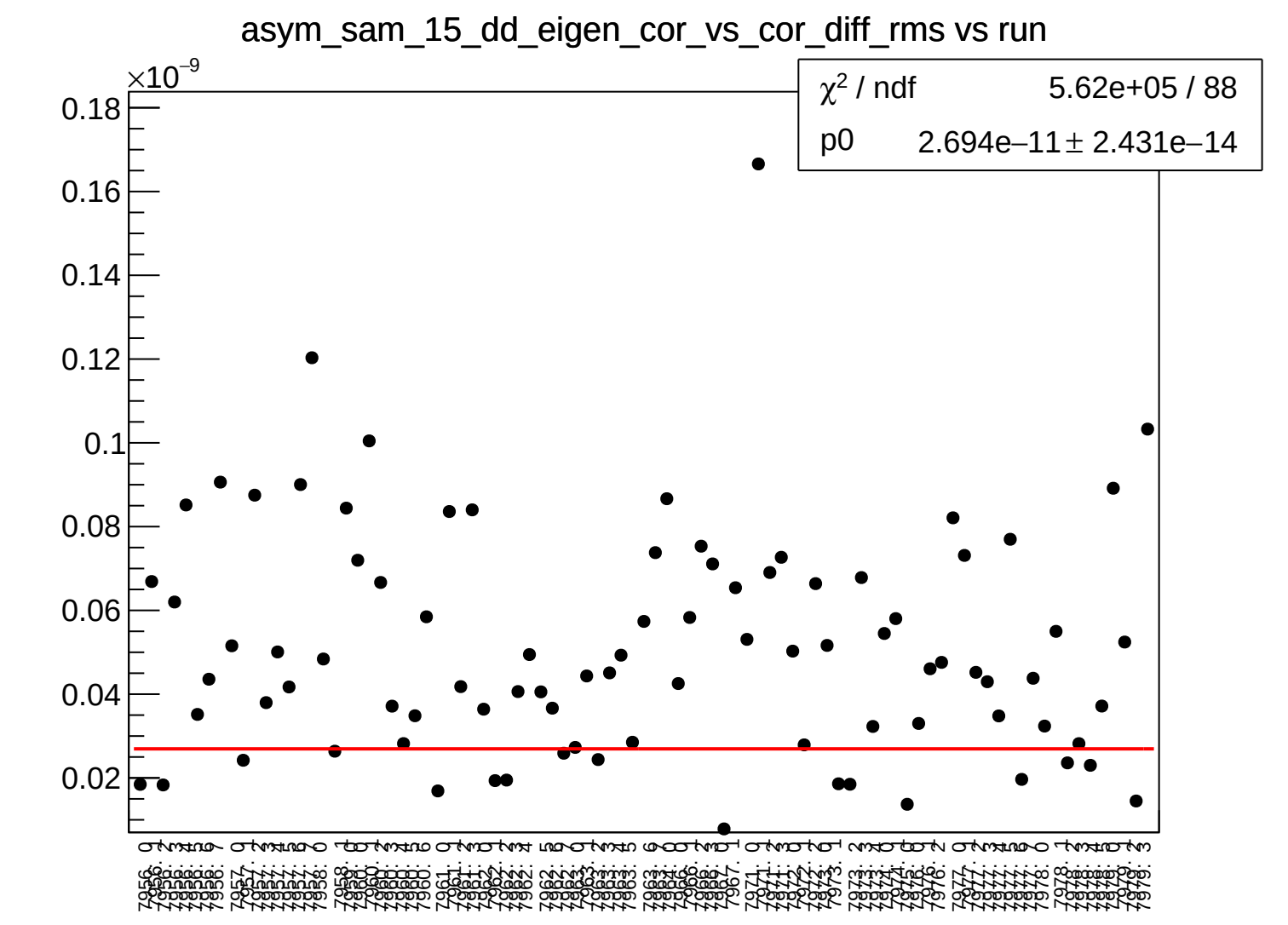

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.261e+05 / 88
p0 49.65 ± 0.03969
110
100
90
80
70
60
50
40

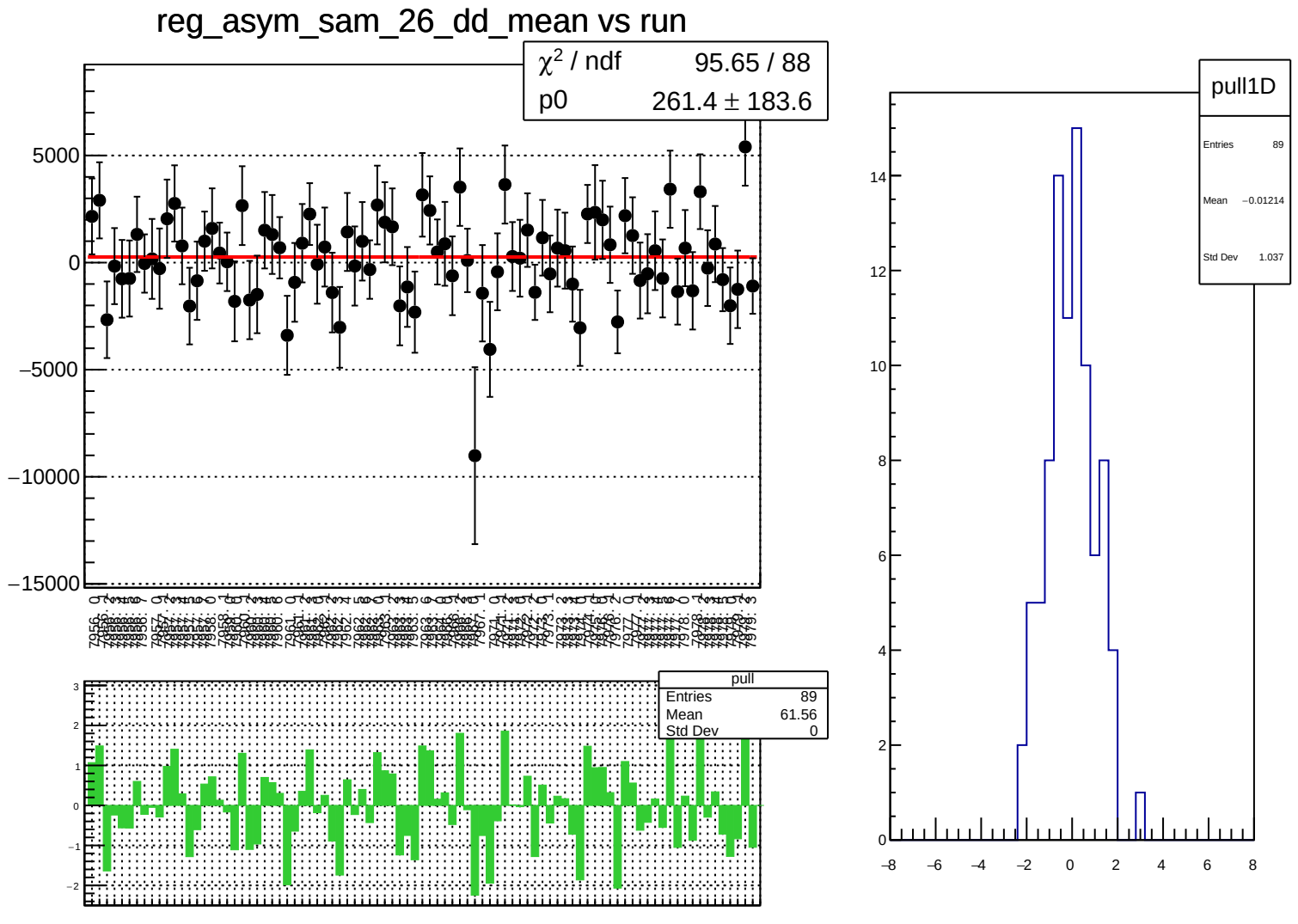

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 88
p0 0.02913 ± 0.05613
pull
Entries 89
Mean 118.6
Std Dev 6.025
pull1D
Entries 89
Mean 0.02634
Std Dev 1.064

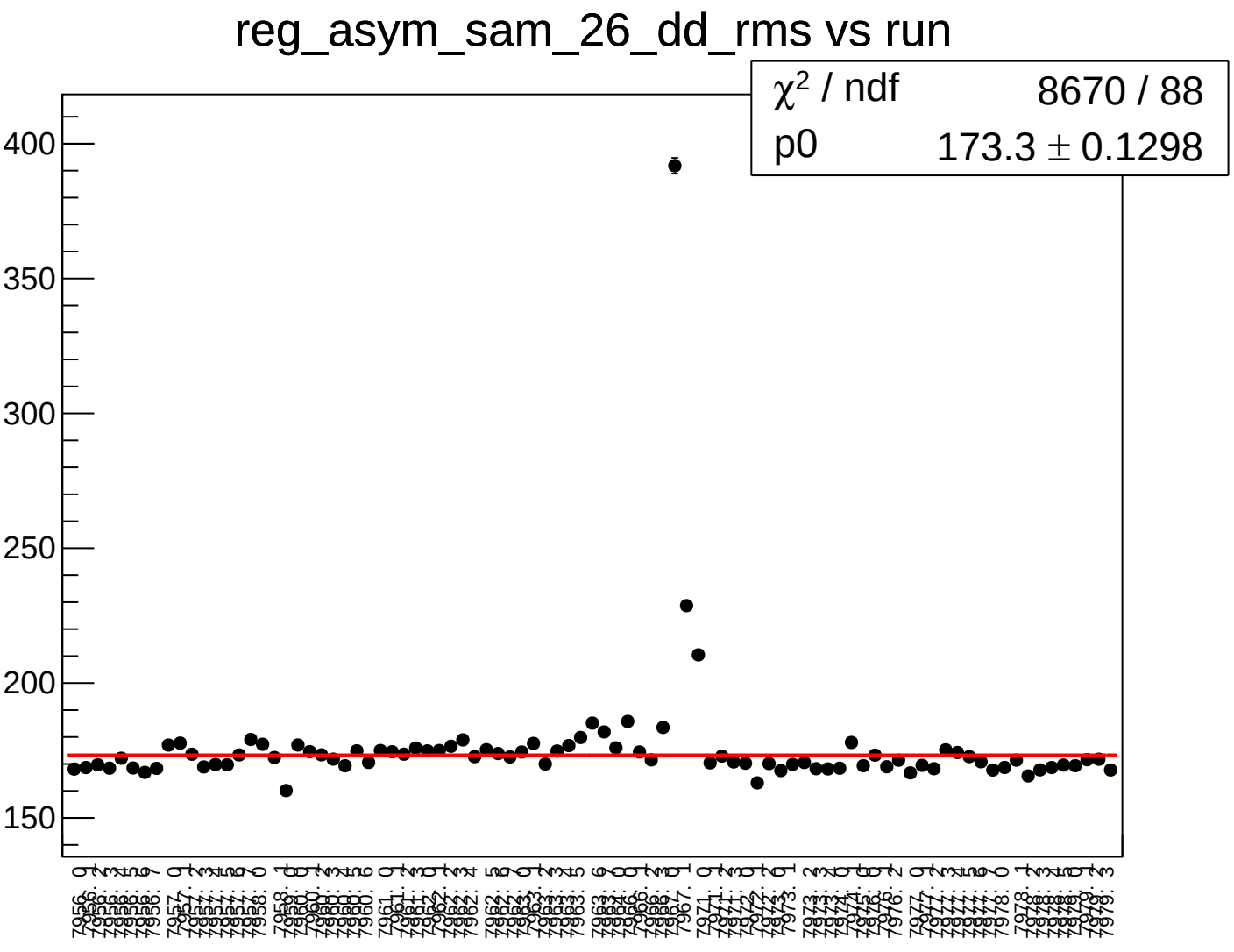

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.261e+05 / 88
p0 49.65 ± 0.03969
110
100
90
80
70
60
50
40

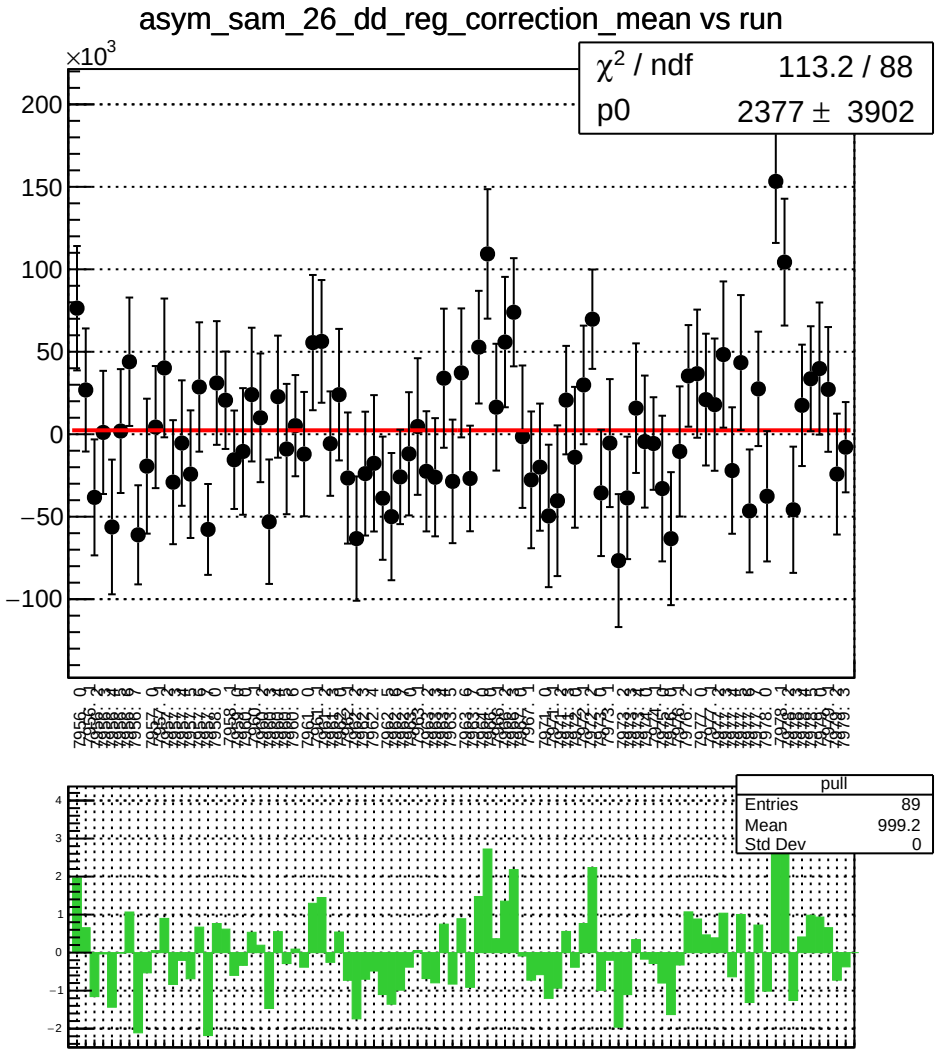

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.68 / 88
p0 3.357e−14 ± 3.438e−14
pull
Entries 89
Mean 21.88
Std Dev 0

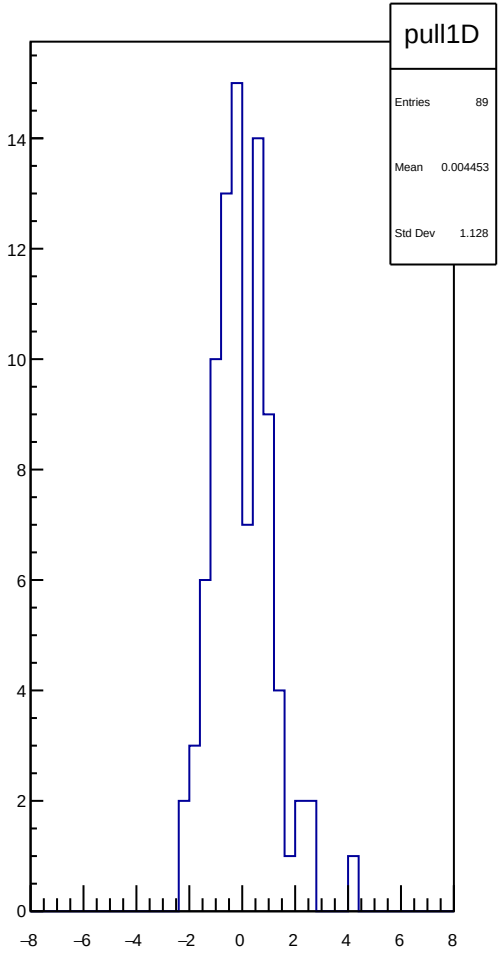

pull1D
Entries 89
Mean −0.1004
Std Dev 0.9875

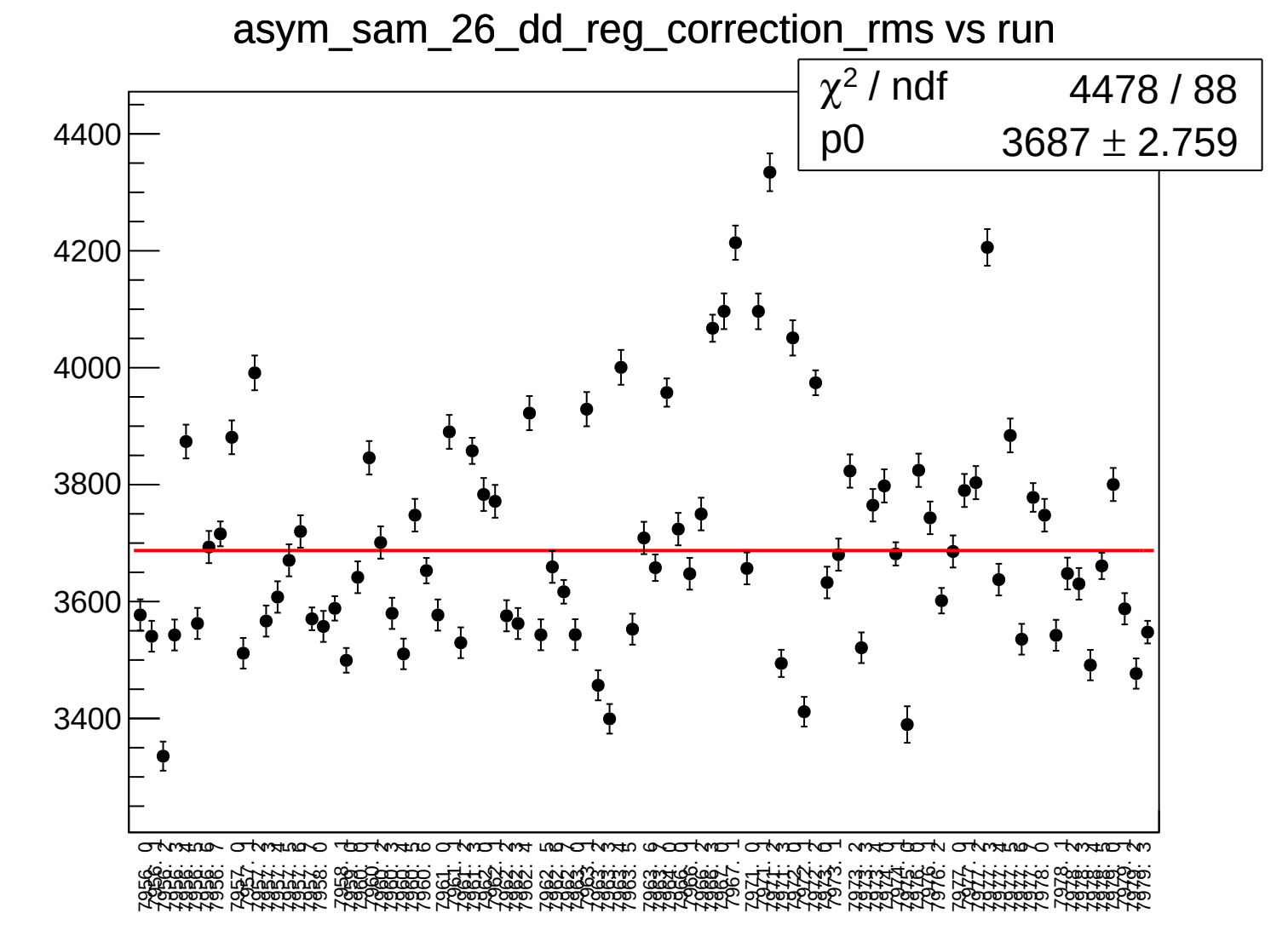

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.62e+05 / 88
p0 2.694e−11 ± 2.431e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

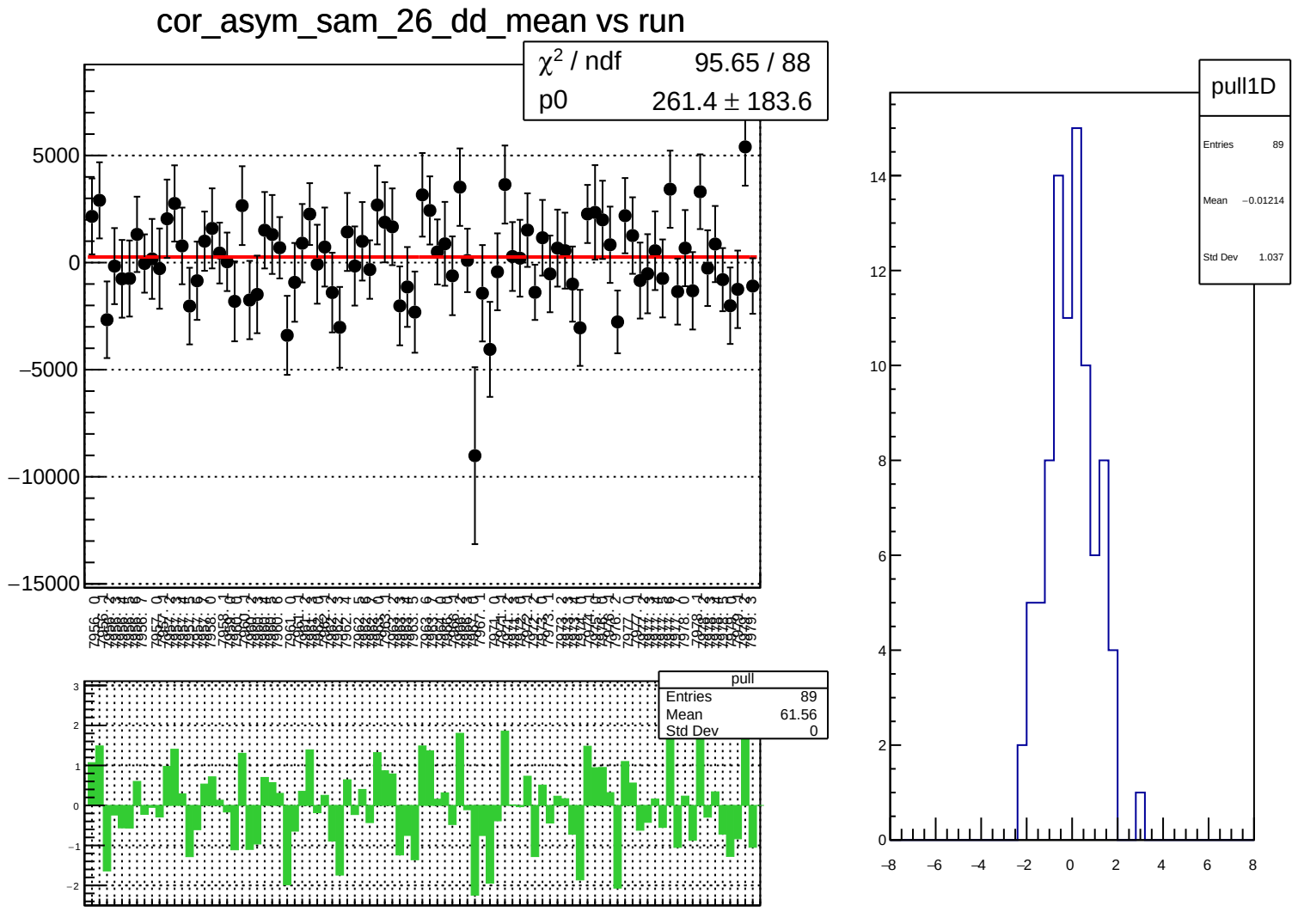

reg_asym_sam_26_dd_mean vs run
χ² / ndf 95.65 / 88
p0 261.4 ± 183.6
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 61.56
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01214
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

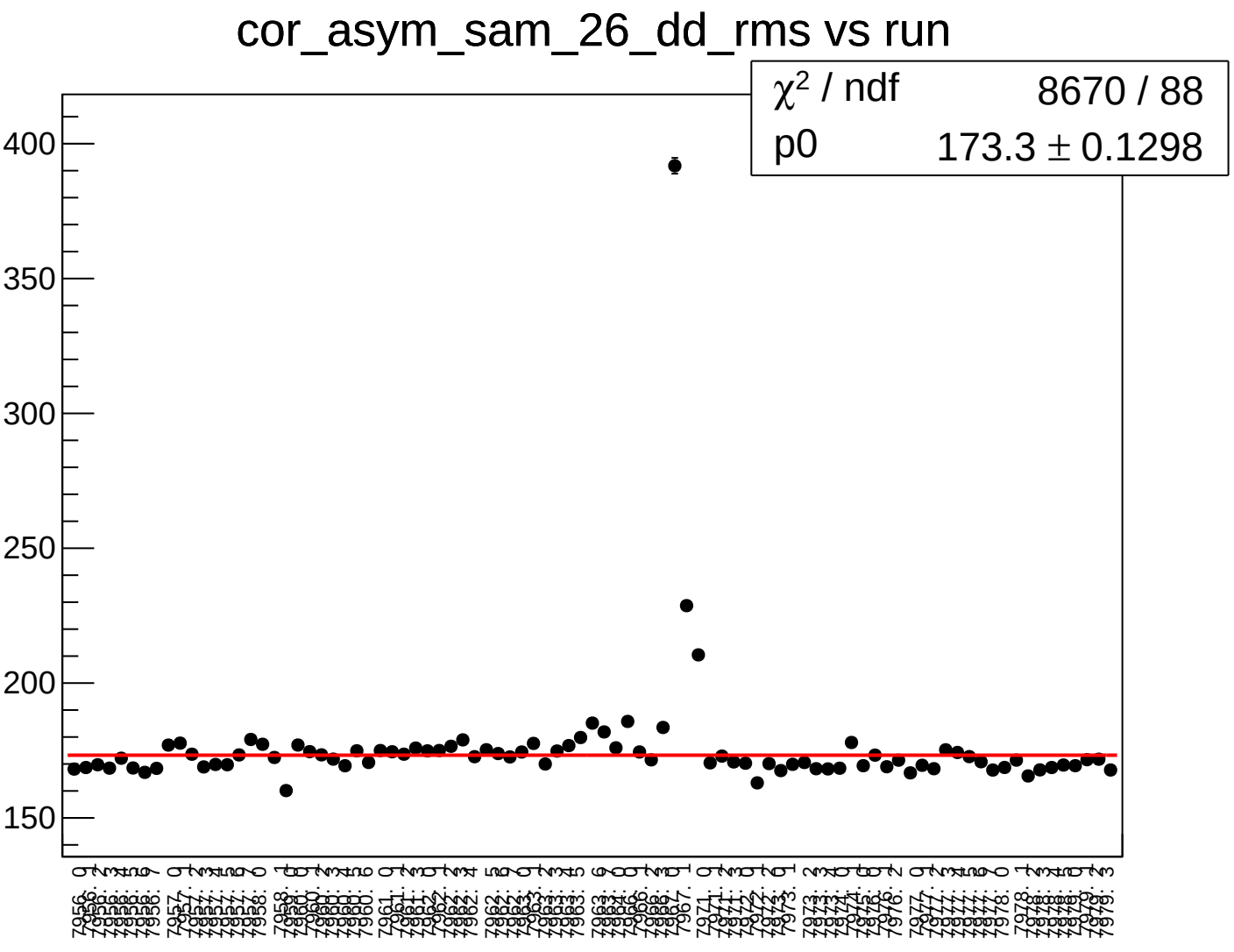

reg_asym_sam_26_dd_rms vs run
χ² / ndf 8670 / 88
p0 173.3 ± 0.1298
400
350
300
250
200
150

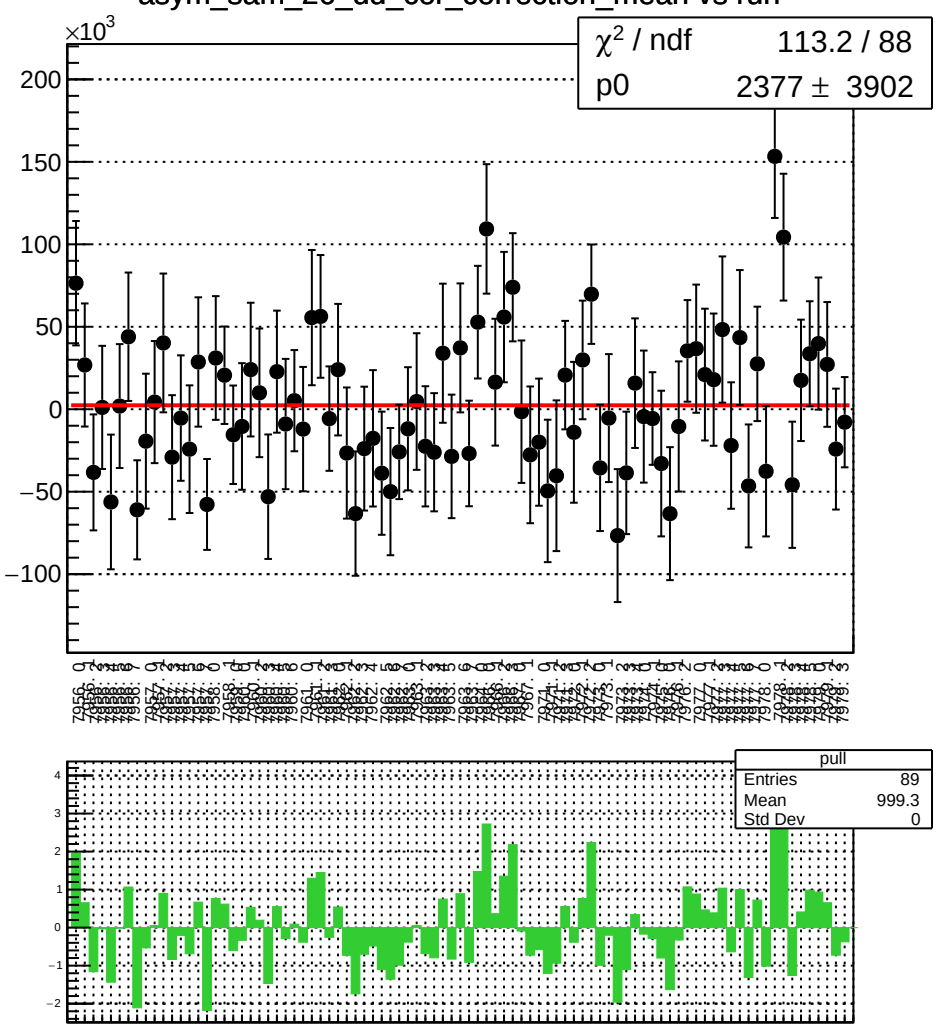

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 113.2 / 88
p0 2377 ± 3902
pull
Entries 89
Mean 999.2
Std Dev 0

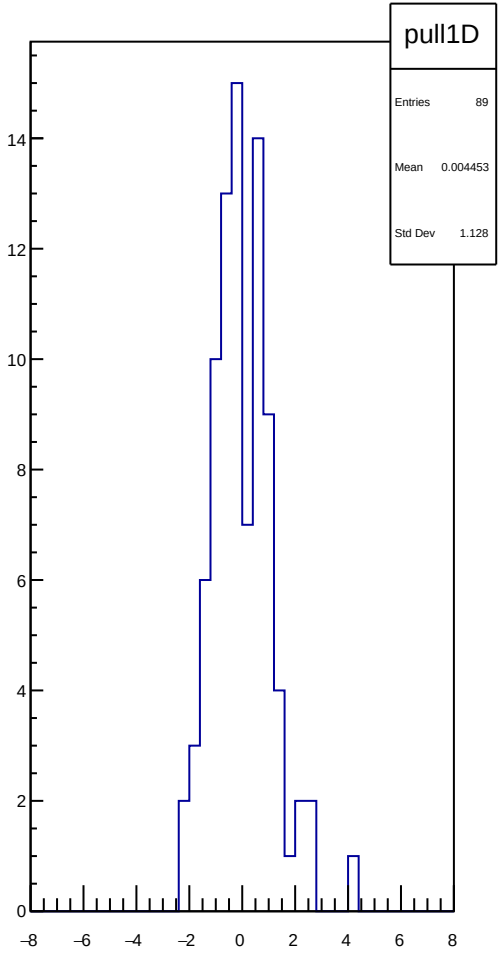

pull1D
Entries 89
Mean 0.004453
Std Dev 1.128

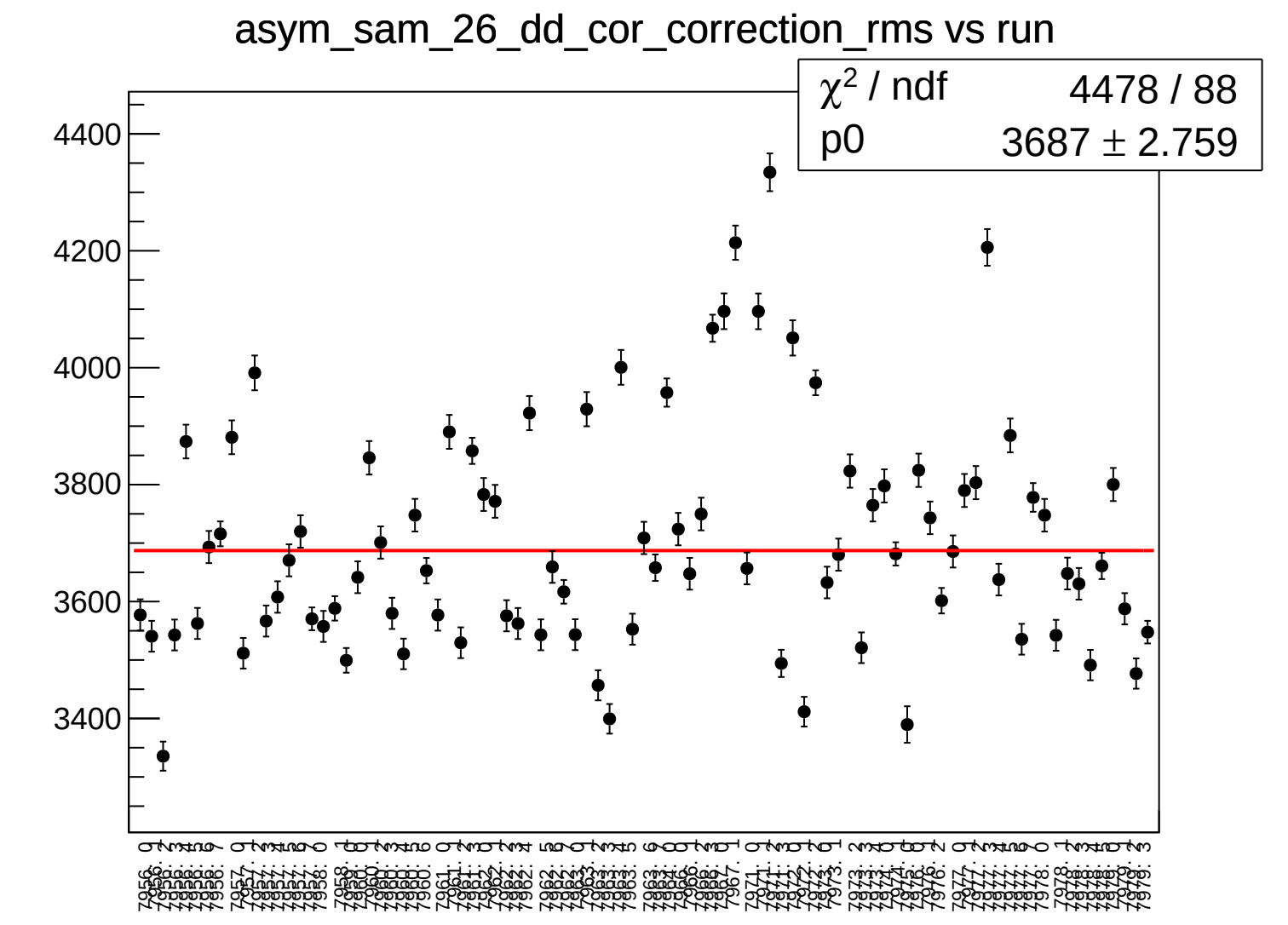

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 4478 / 88
p0 3687 ± 2.759
4400
4200
4000
3800
3600
3400

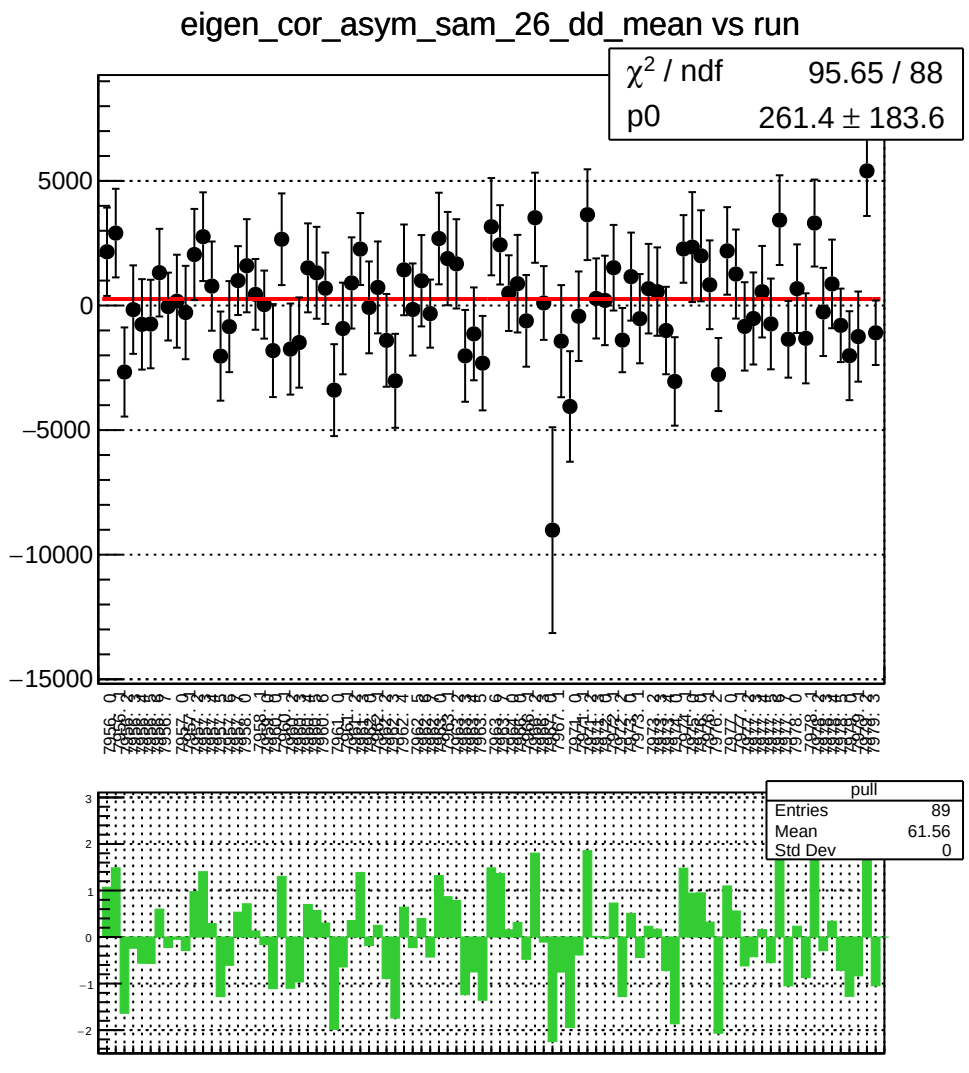

cor_asym_sam_26_dd_mean vs run
χ² / ndf 95.65 / 88
p0 261.4 ± 183.6
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 61.56
Std Dev 0
pull1D
Entries 89
Mean −0.01214
Std Dev 1.037

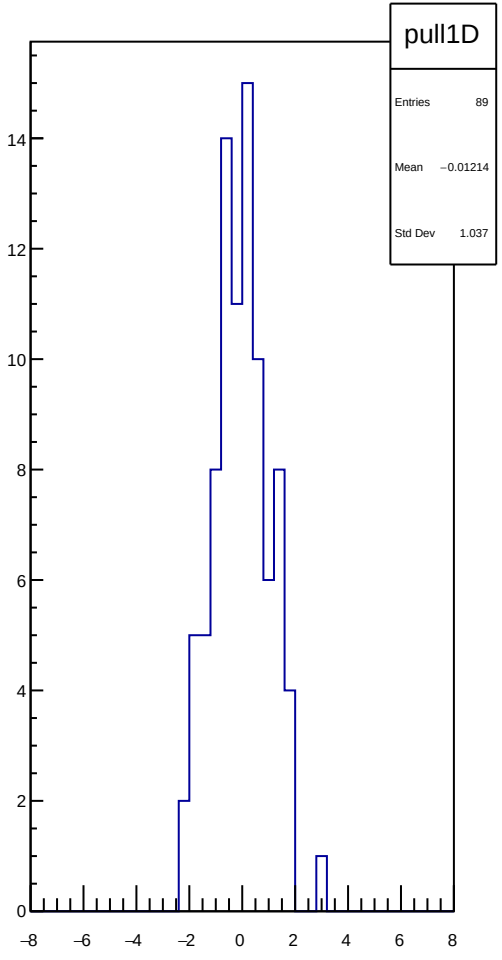

cor_asym_sam_26_dd_rms vs run
χ² / ndf 8670 / 88
p0 173.3 ± 0.1298
400
350
300
250
200
150

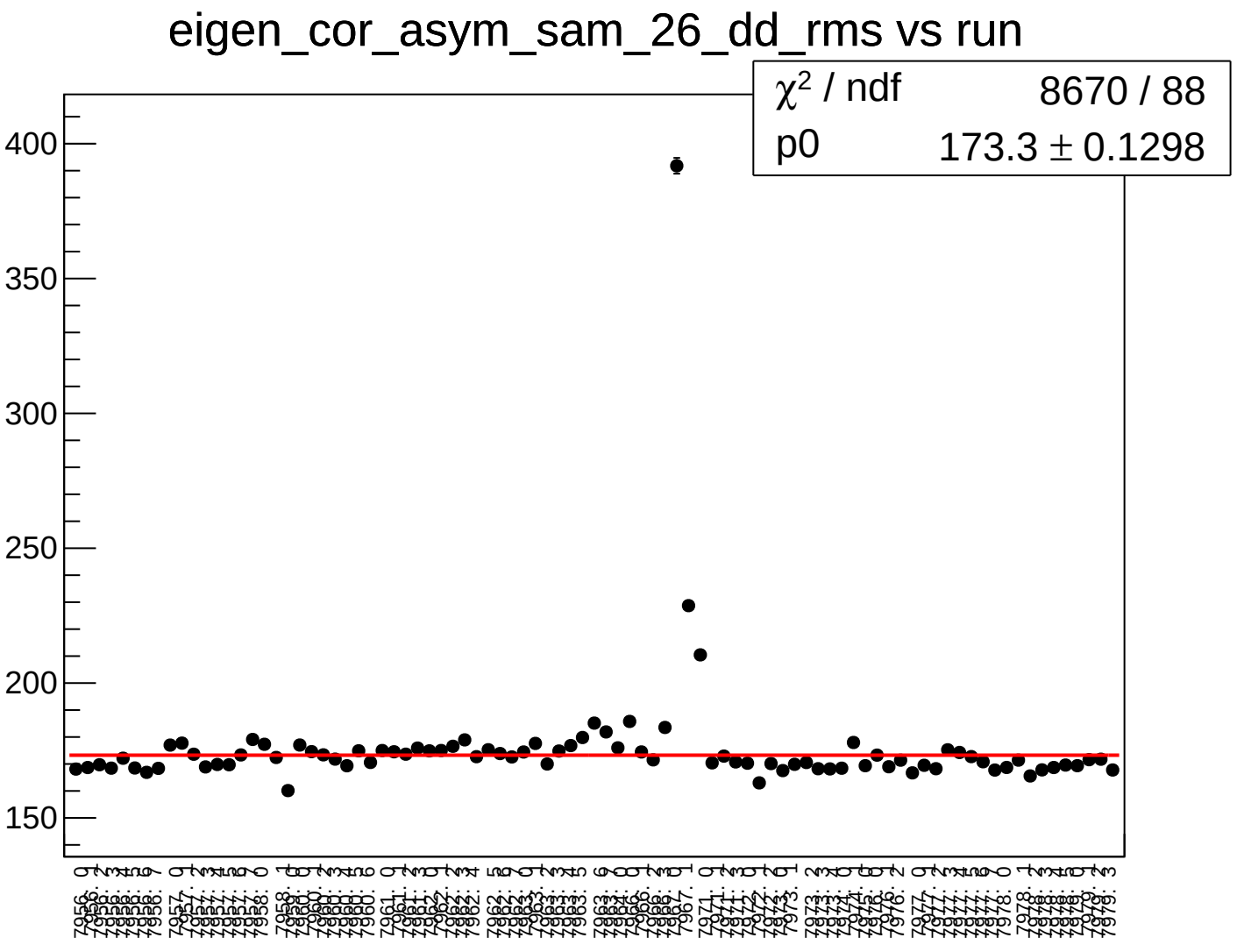

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 113.2 / 88
p0 2377 ± 3902
pull
Entries 89
Mean 999.3
Std Dev 0

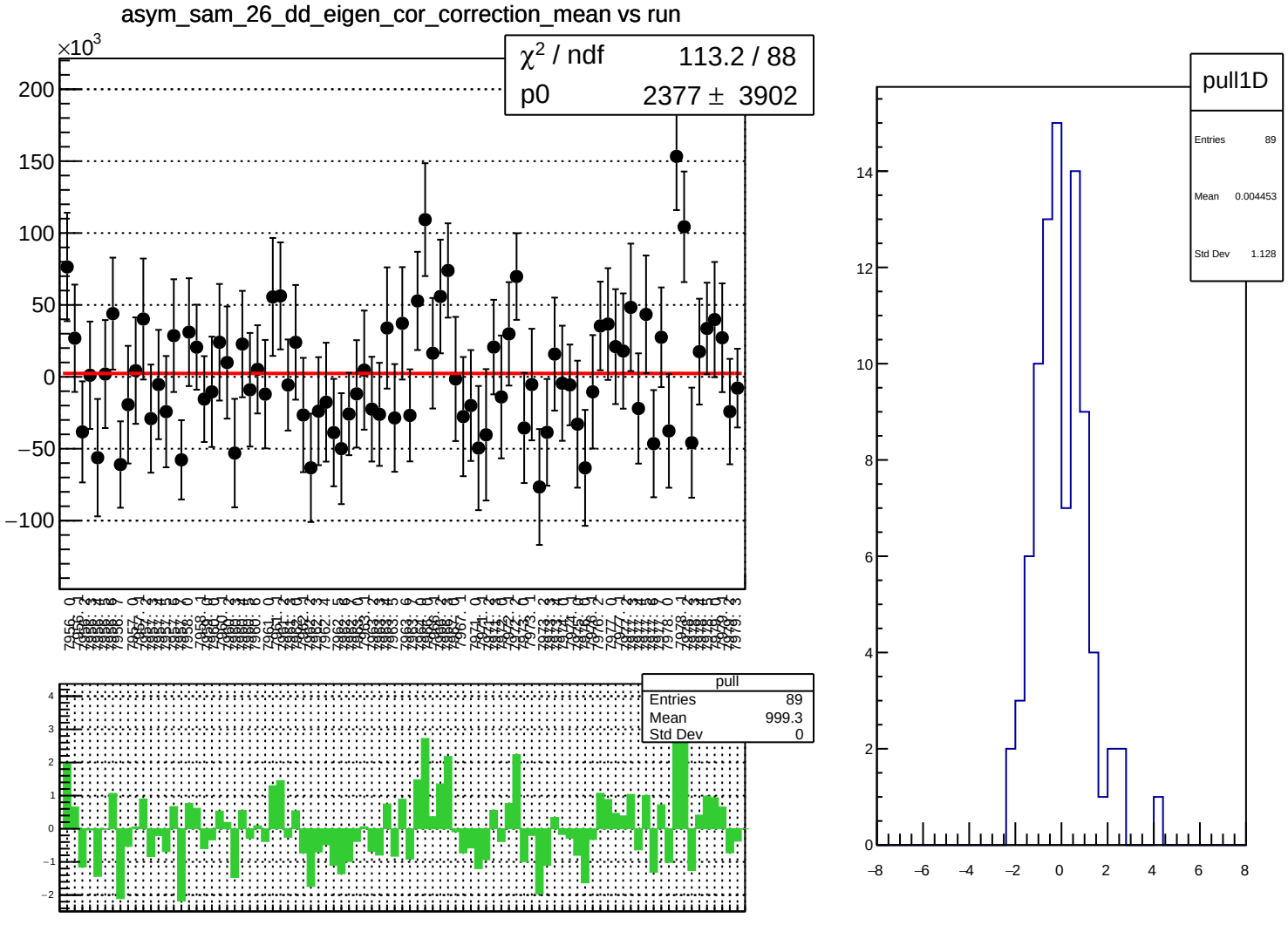

pull1D
Entries 89
Mean 0.004453
Std Dev 1.128

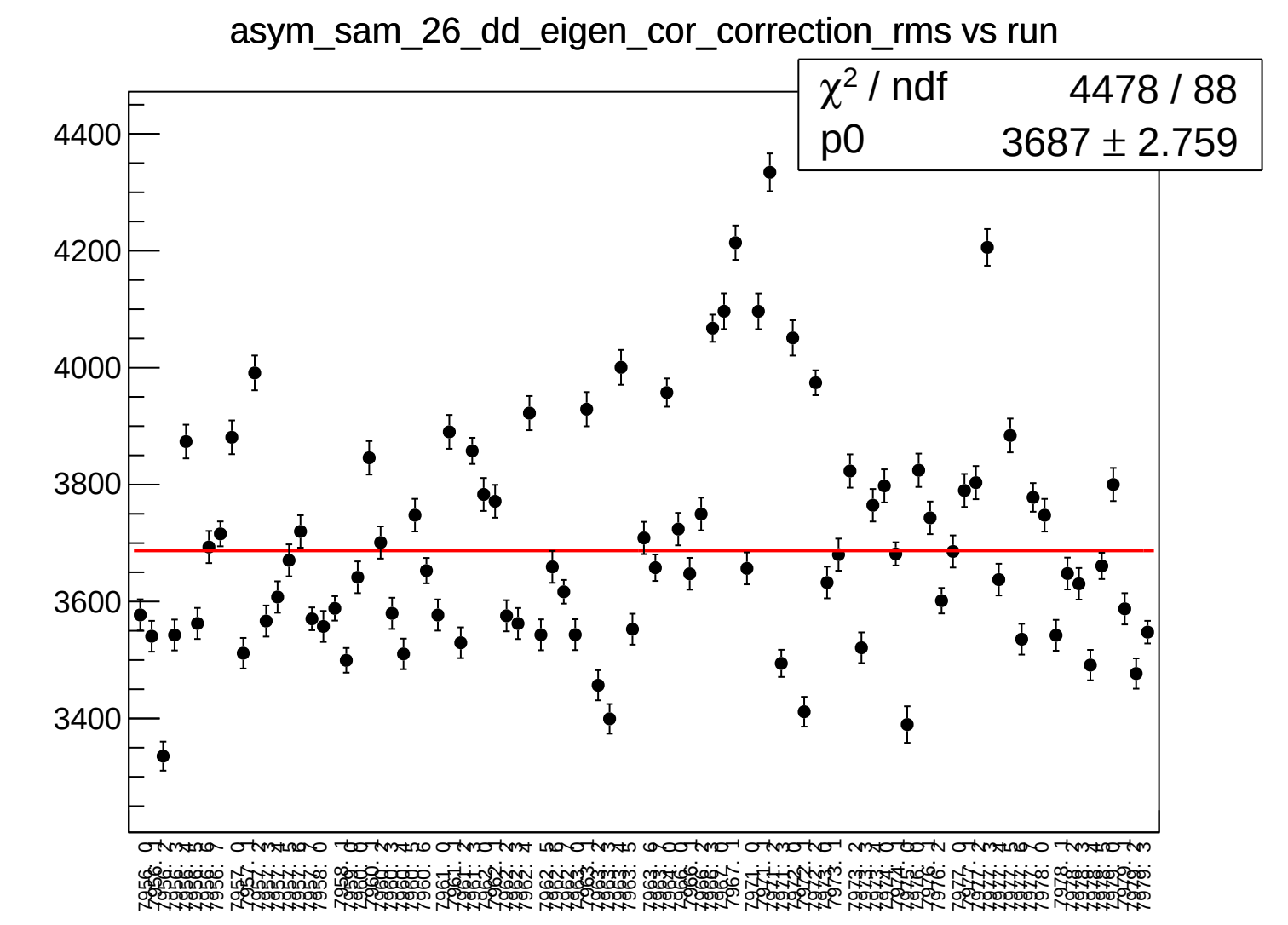

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 4478 / 88
p0 3687 ± 2.759
4400
4200
4000
3800
3600
3400

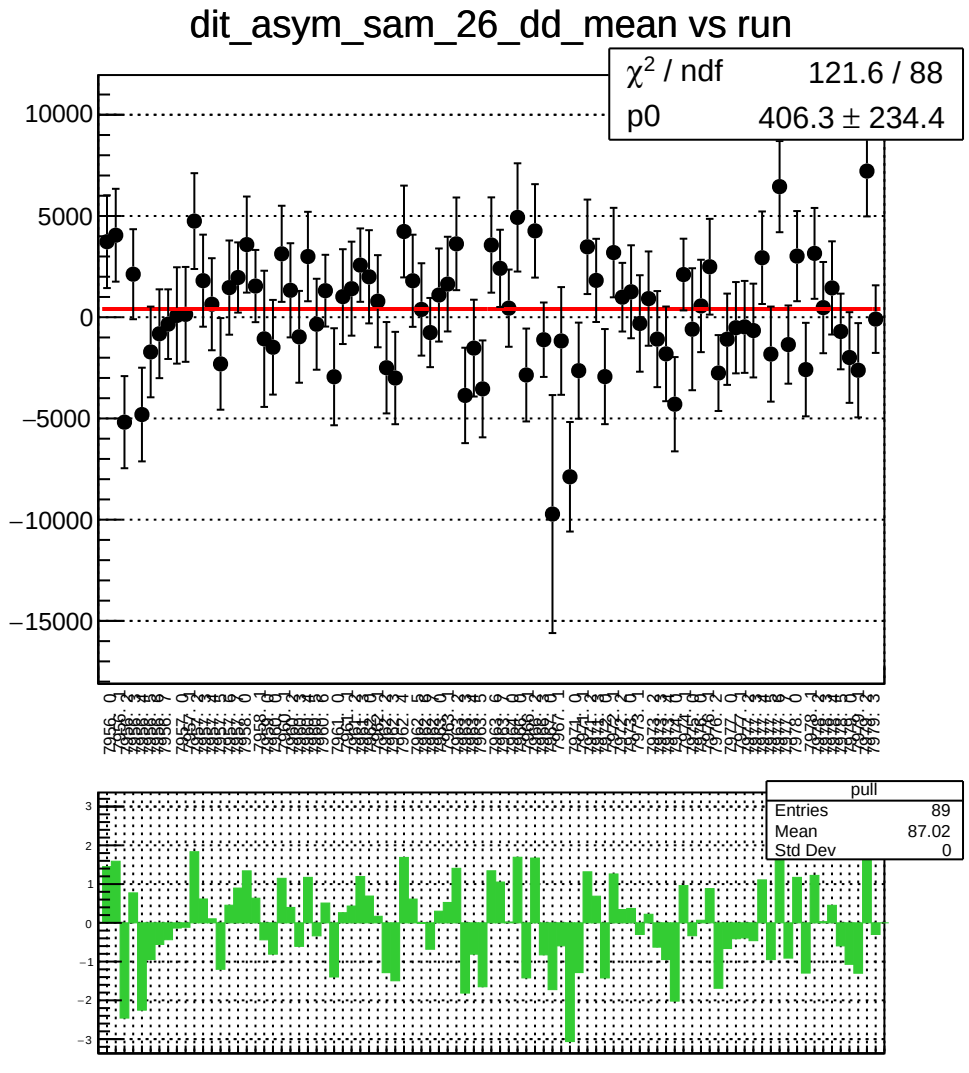

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 95.65 / 88
p0 261.4 ± 183.6
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 61.56
Std Dev 0
3
2
1
0
−1
−2

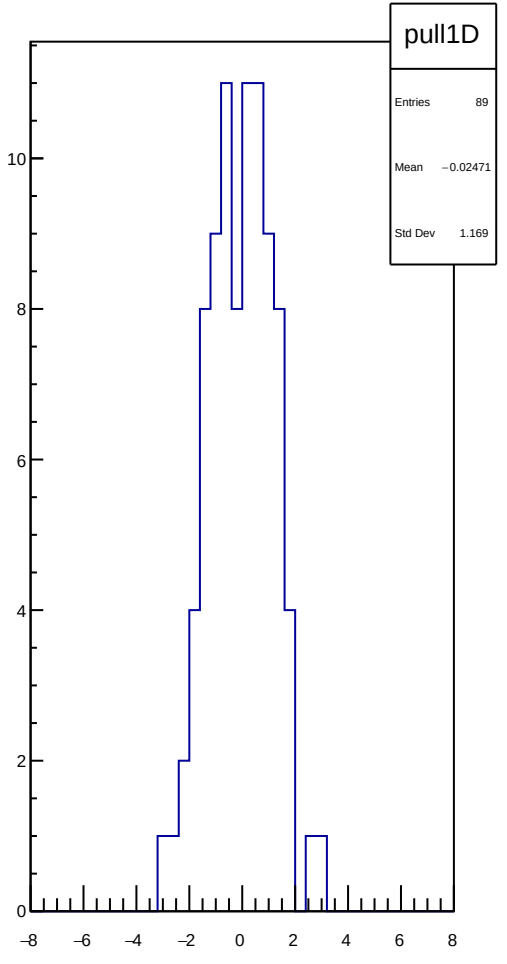

pull1D
Entries 89
Mean −0.01214
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

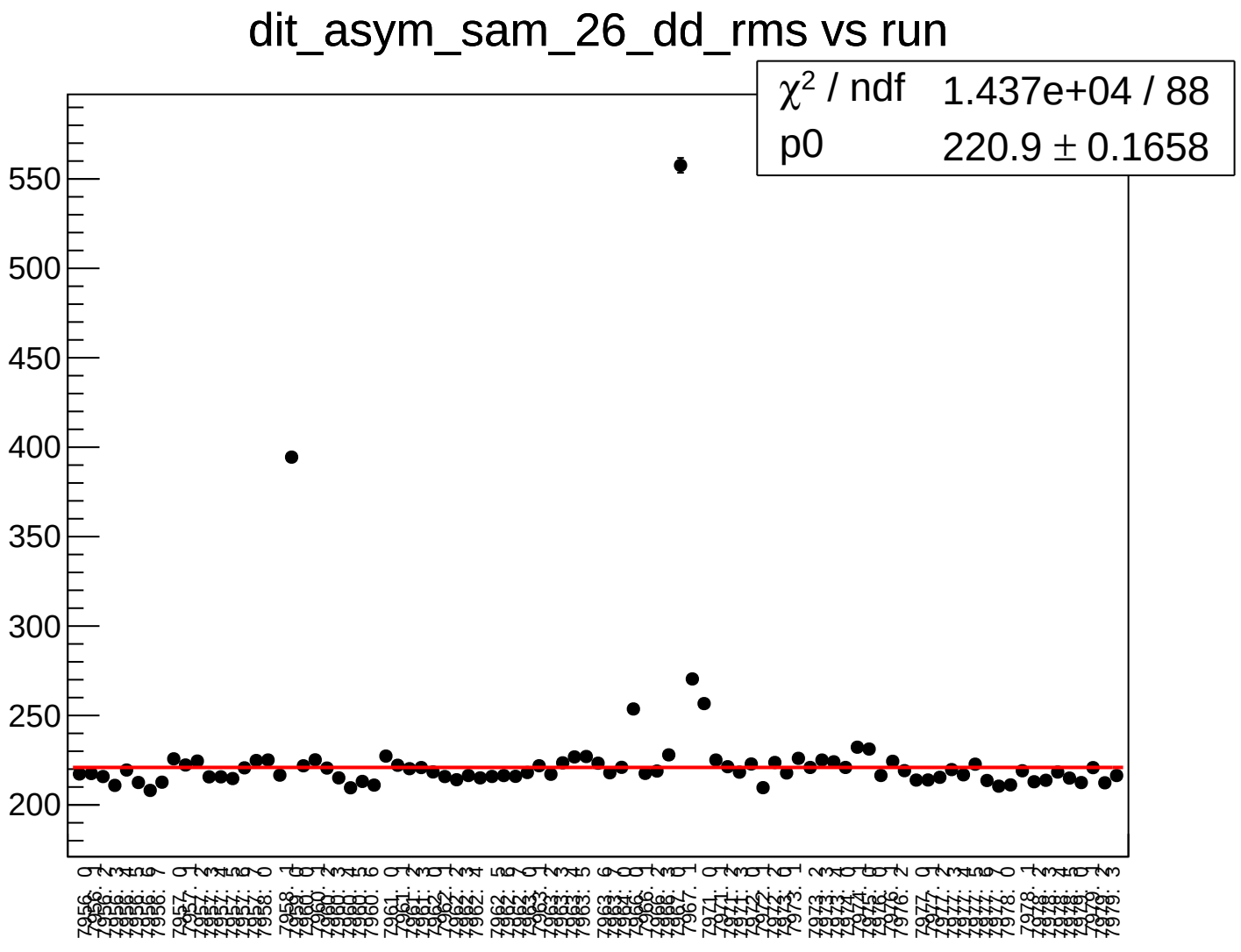

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 8670 / 88
p0 173.3 ± 0.1298
400
350
300
250
200
150

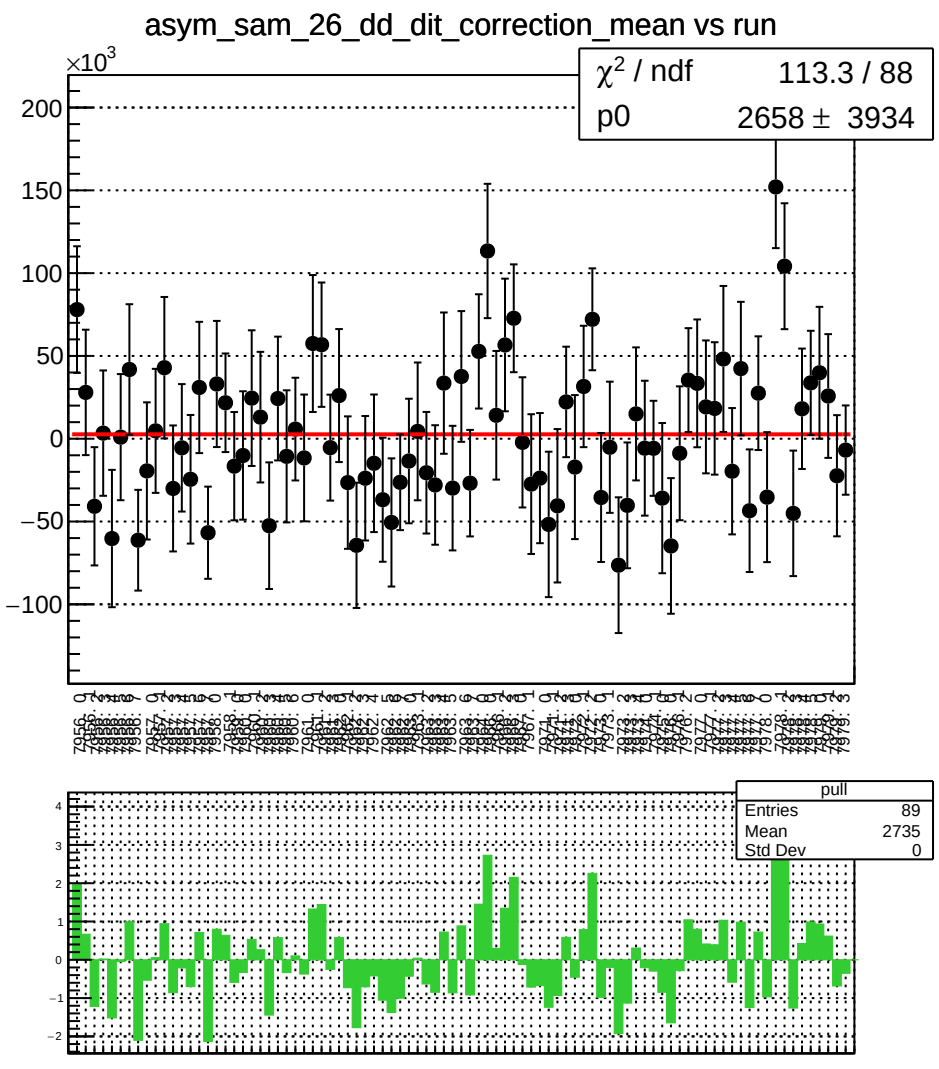

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 113.2 / 88
p0 2377 ± 3902
200
150
100
50
0
−50
−100
pull
Entries 89
Mean 999.3
Std Dev 0
pull1D
Entries 89
Mean 0.004453
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

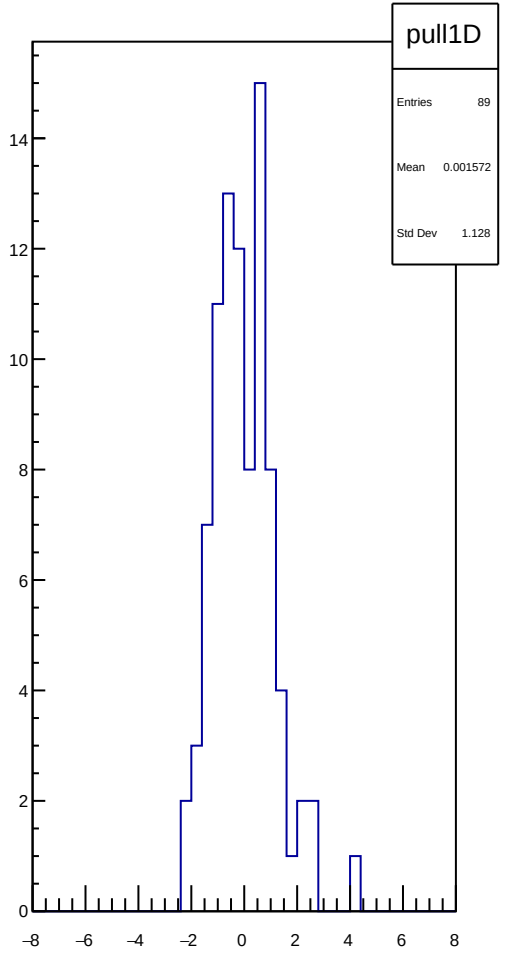

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4478 / 88
p0 3687 ± 2.759
4400
4200
4000
3800
3600
3400

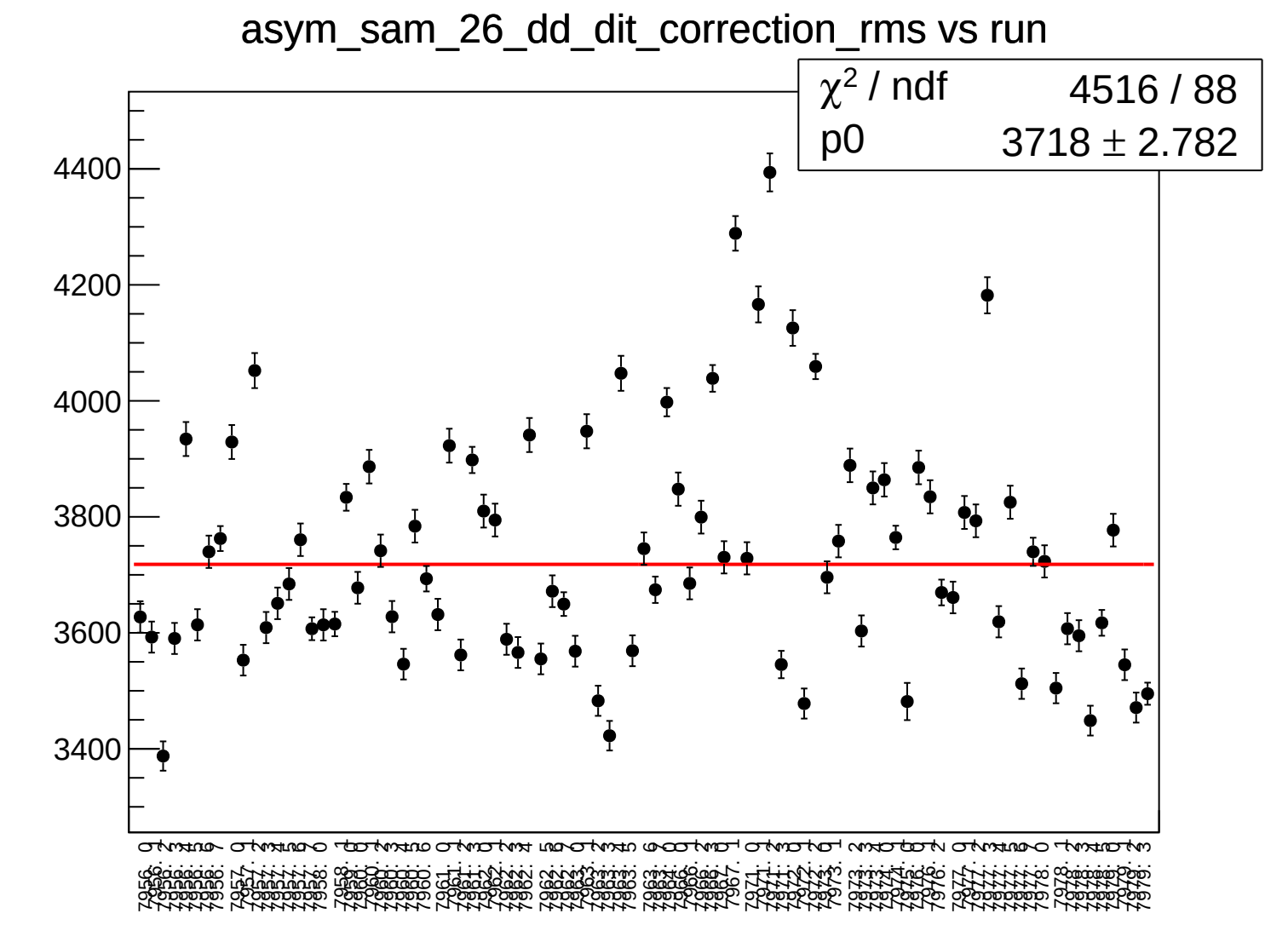

dit_asym_sam_26_dd_mean vs run
$\chi^2$ / ndf 121.6 / 88
p0 406.3 ± 234.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 87.02
Std Dev 0
3
2
1
0
−1
−2
−3

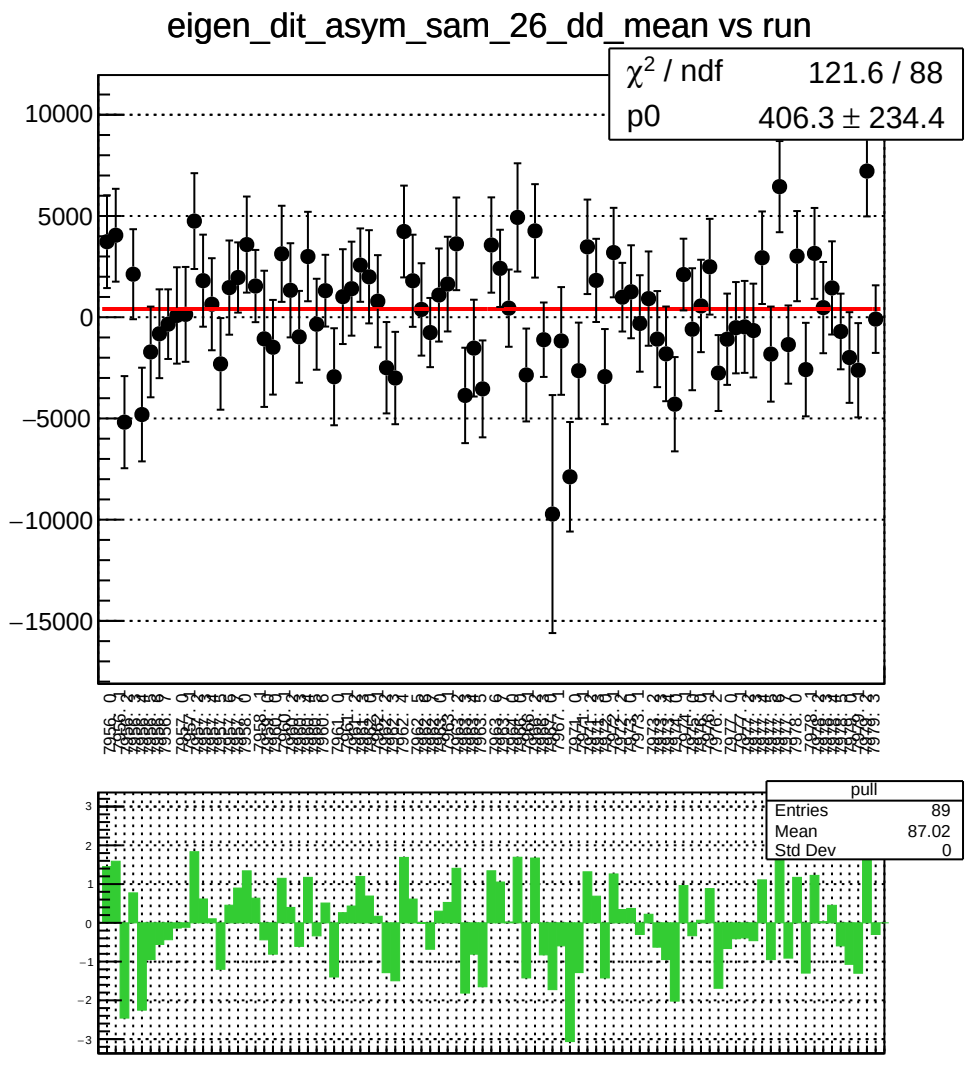

pull1D
Entries 89
Mean −0.02471
Std Dev 1.169
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

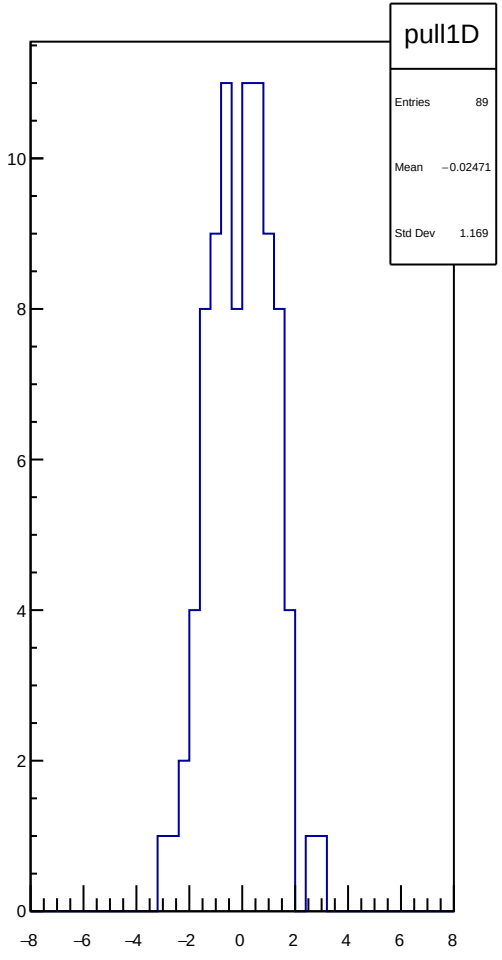

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1.437e+04 / 88
p0 220.9 ± 0.1658
550
500
450
400
350
300
250
200

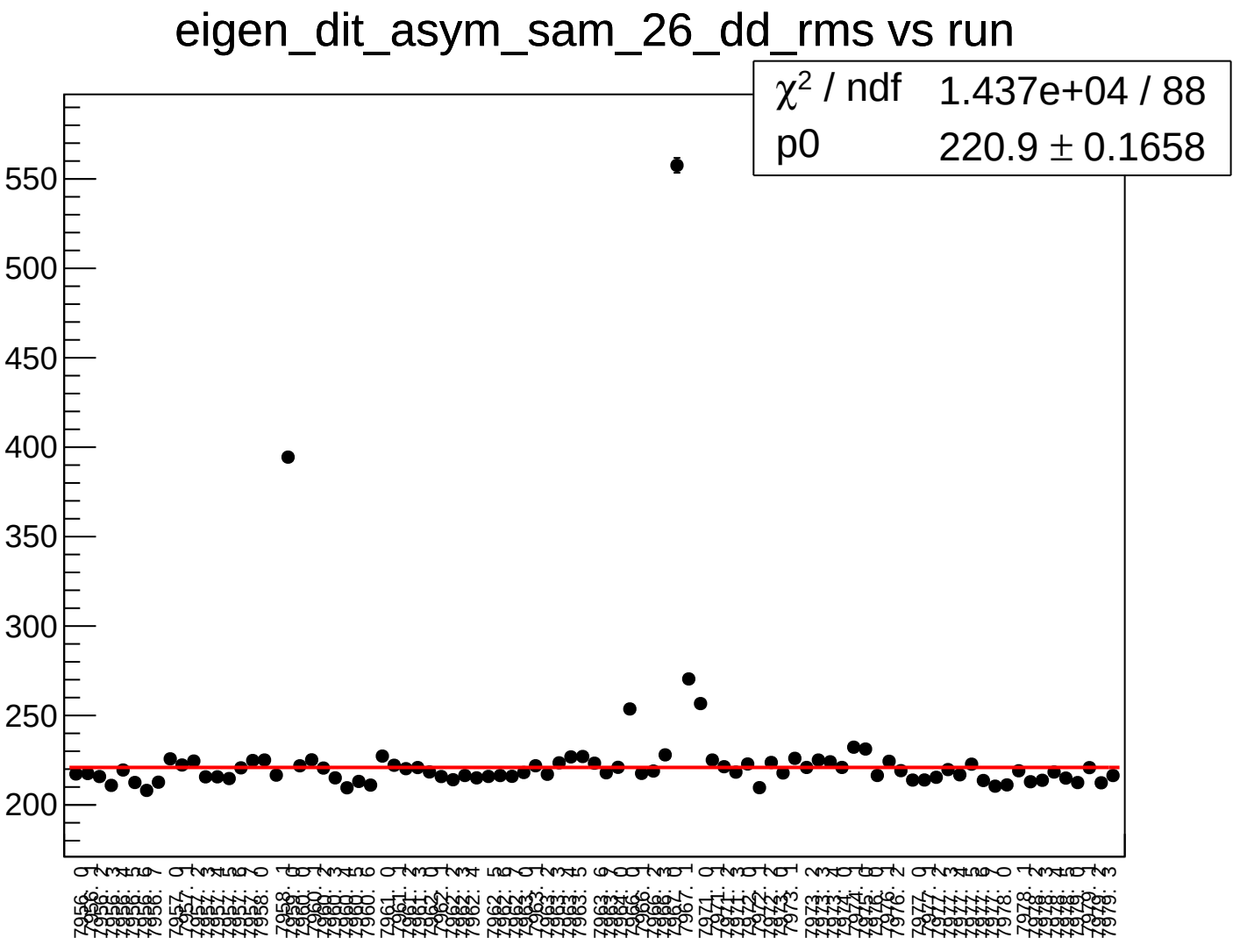

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 113.3 / 88
p0 2658 ± 3934
200
150
100
50
0
−50
−100
pull
Entries 89
Mean 2735
Std Dev 0
4
3
2
1
0
−1
−2

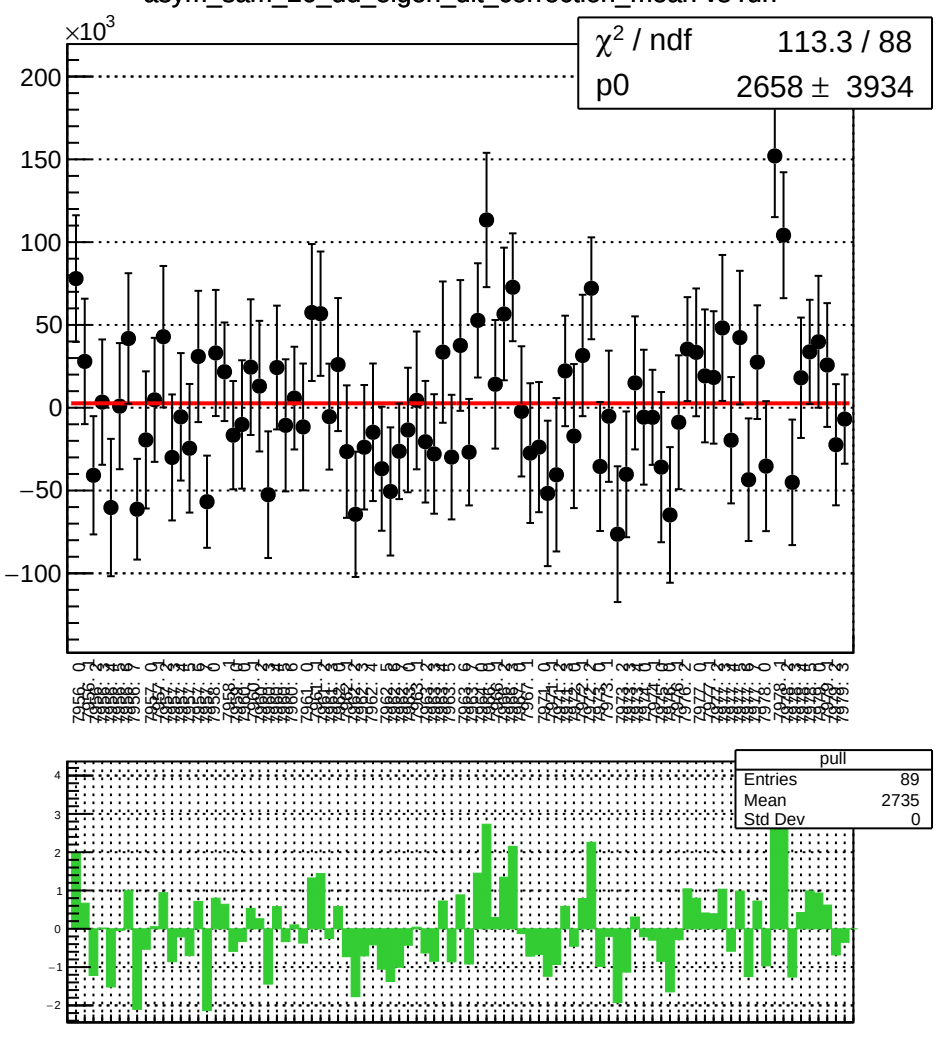

pull1D
Entries 89
Mean 0.001572
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

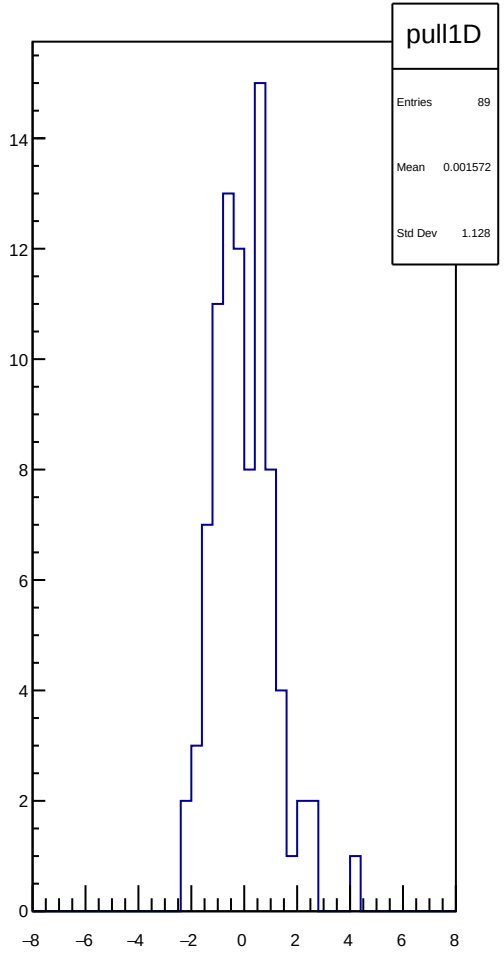

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 4516 / 88
p0 3718 ± 2.782
4400
4200
4000
3800
3600
3400

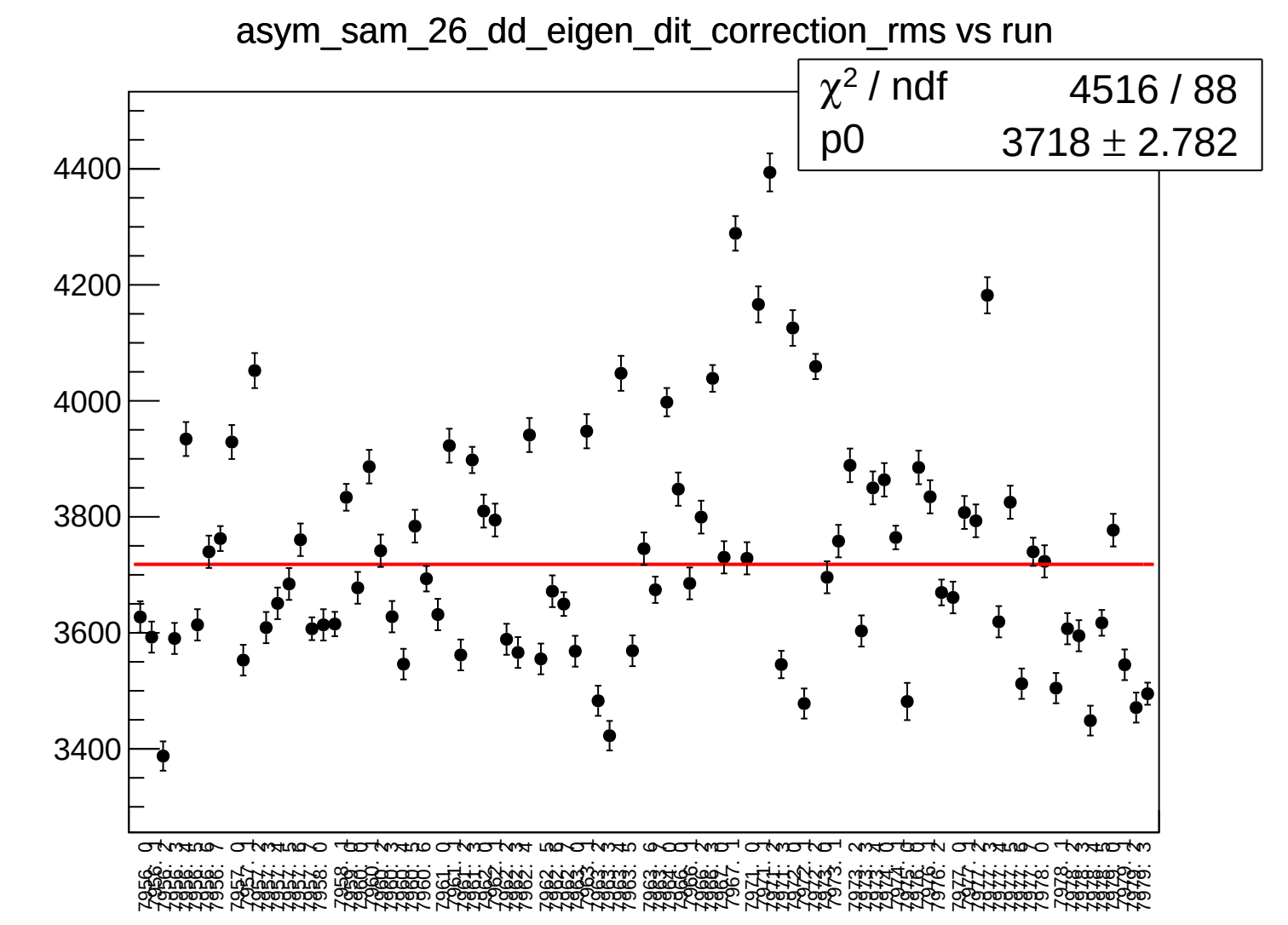

eigen_dit_asym_sam_26_dd_mean vs run
$\chi^2$ / ndf 121.6 / 88
p0 406.3 ± 234.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 87.02
Std Dev 0
3
2
1
0
−1
−2
−3

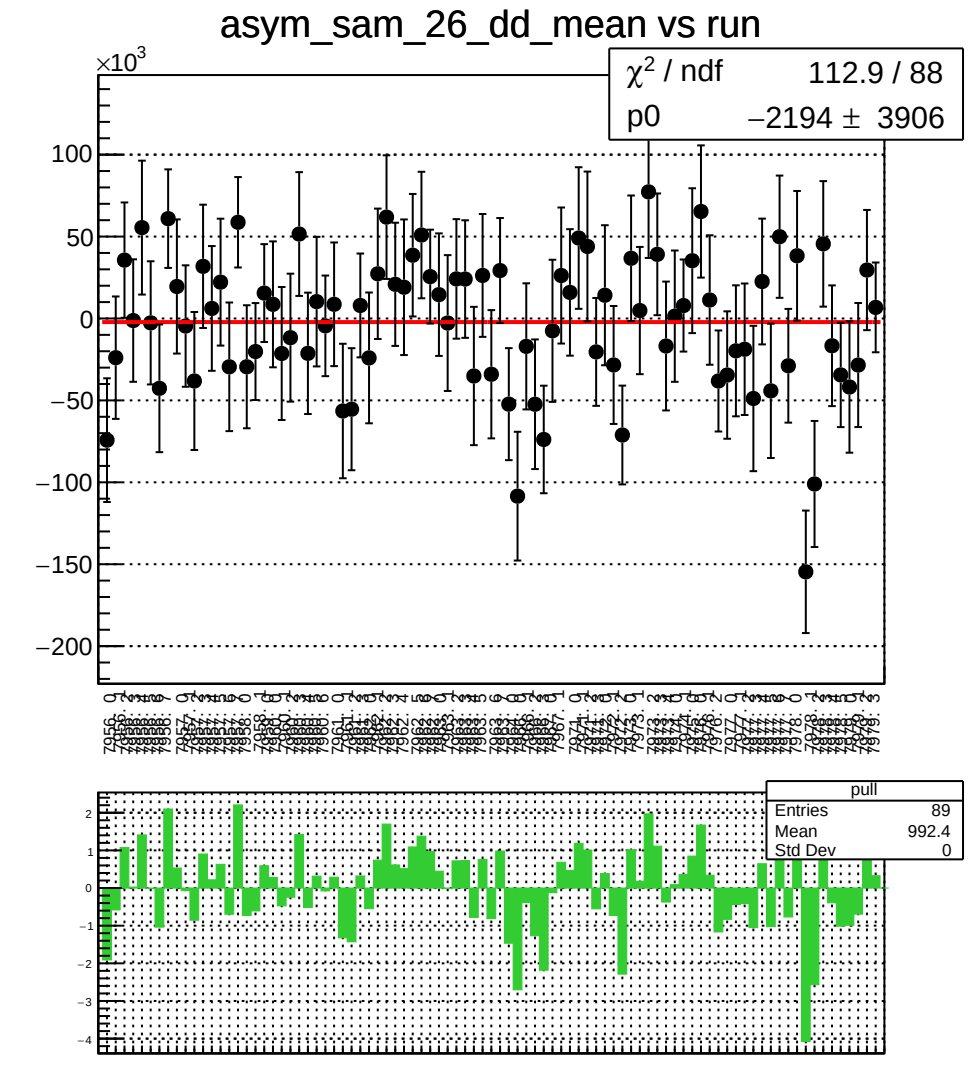

pull1D
Entries 89
Mean −0.02471
Std Dev 1.169
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

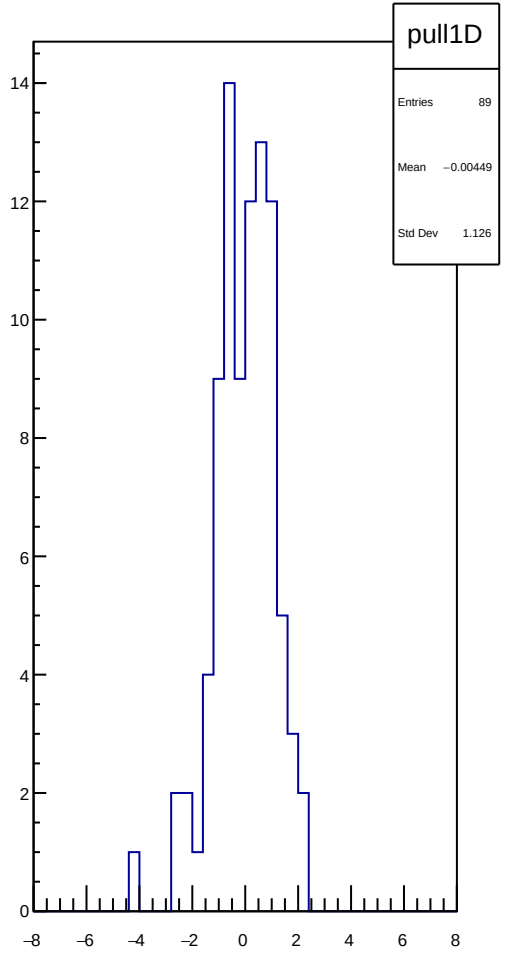

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1.437e+04 / 88
p0 220.9 ± 0.1658
550
500
450
400
350
300
250
200

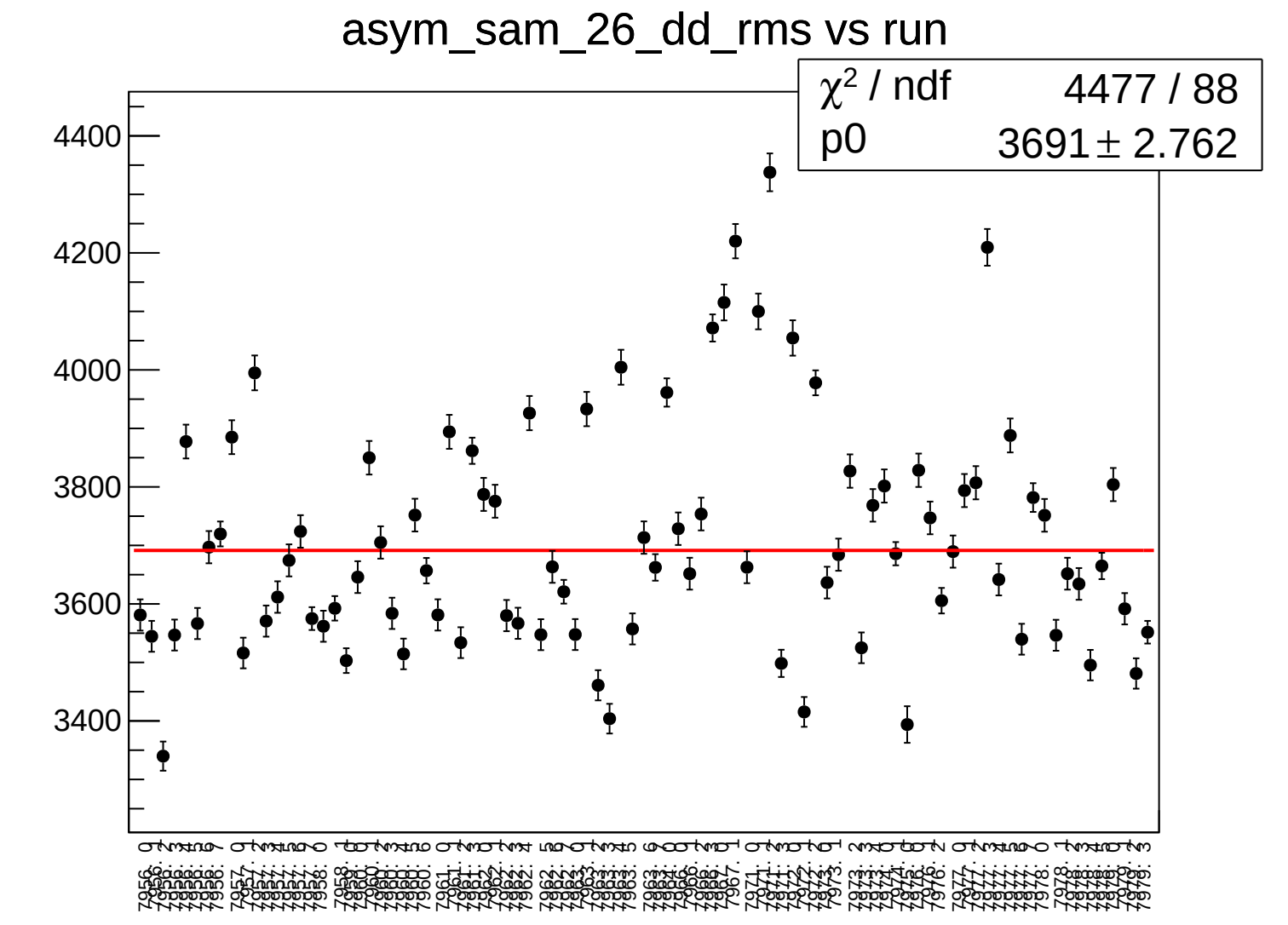

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 113.3 / 88
p0 2658 ± 3934
200
150
100
50
0
−50
−100
pull
Entries 89
Mean 2735
Std Dev 0
4
3
2
1
0
−1
−2

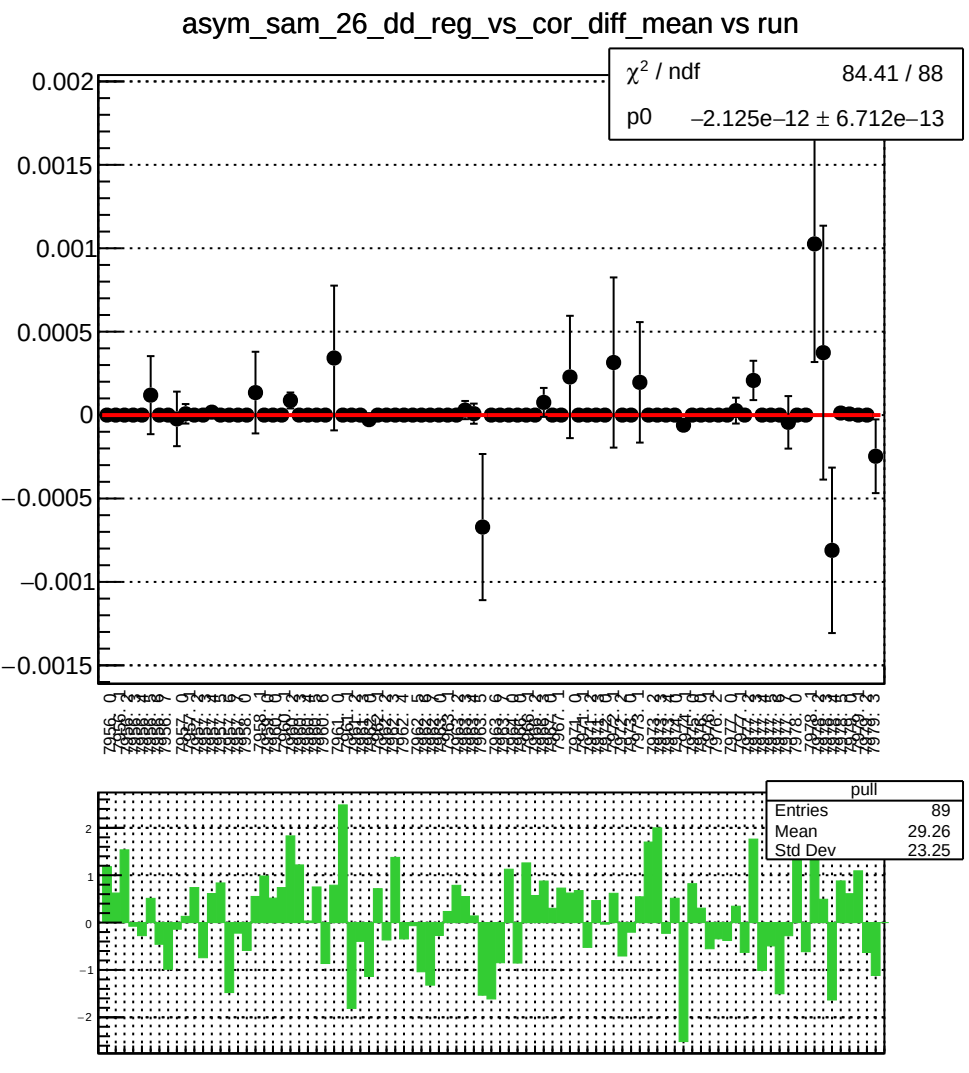

pull1D
Entries 89
Mean 0.001572
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

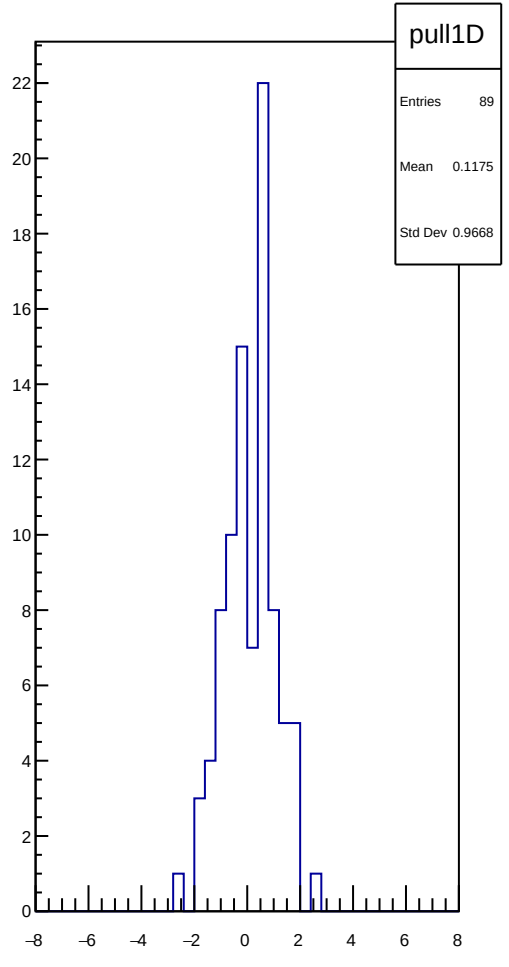

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4516 / 88
p0 3718 ± 2.782
4400
4200
4000
3800
3600
3400

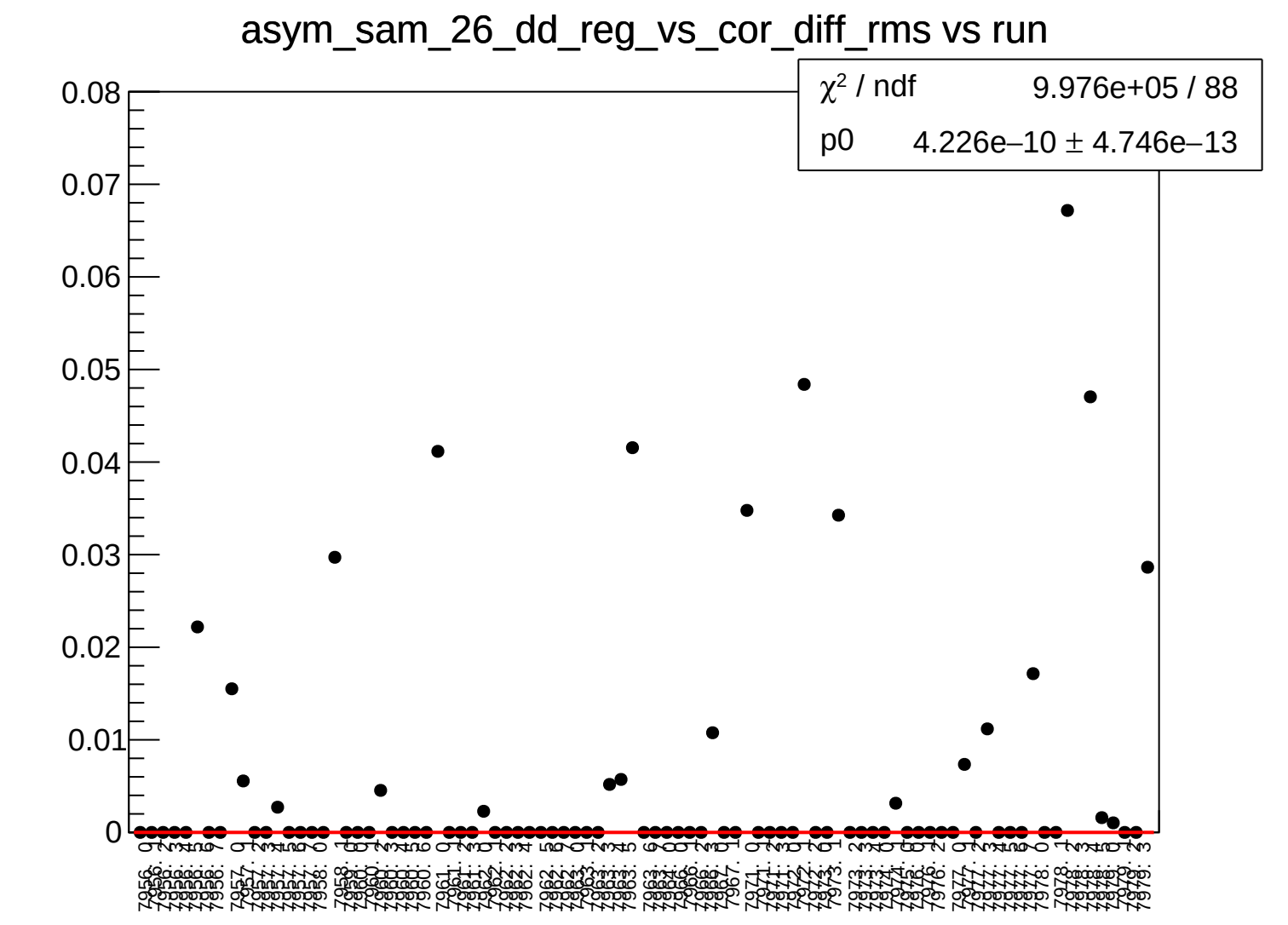

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 112.9 / 88
p0 −2194 ± 3906
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 992.4
Std Dev 0
2
1
0
−1
−2
−3
−4

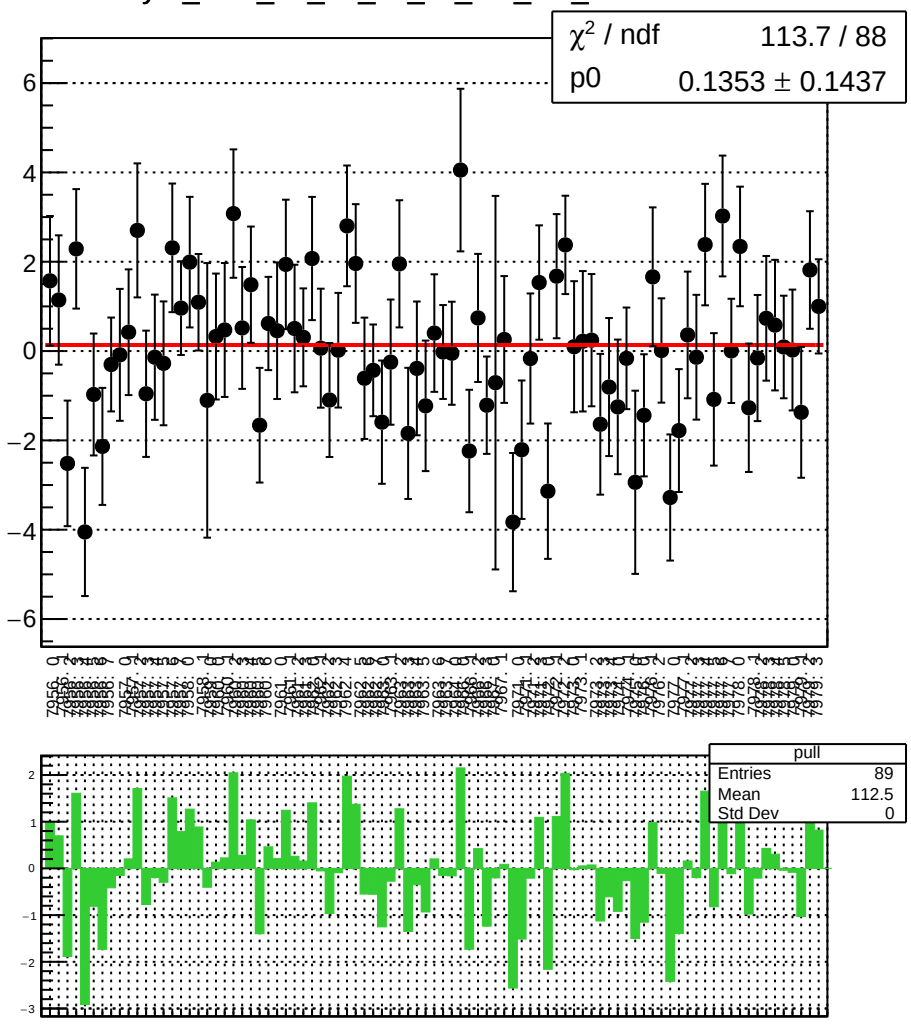

pull1D
Entries 89
Mean −0.00449
Std Dev 1.126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

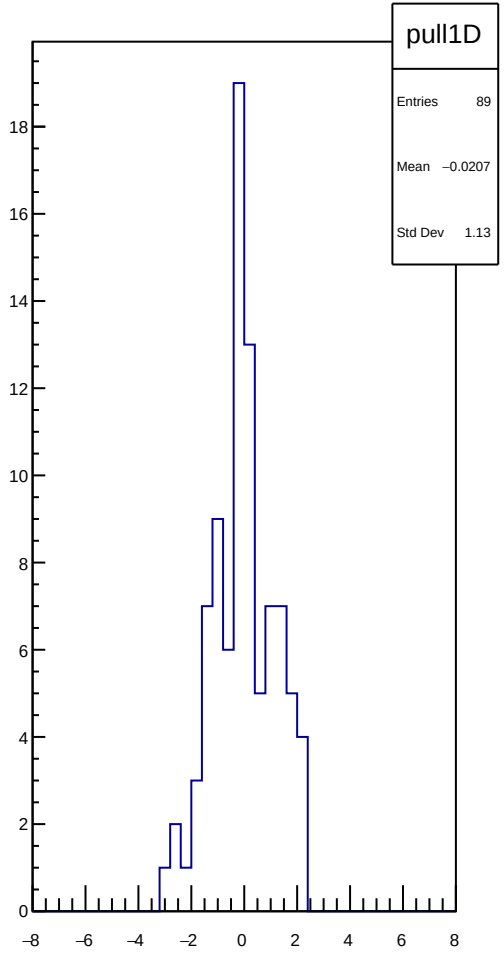

asym_sam_26_dd_rms vs run
χ² / ndf 4477 / 88
p0 3691 ± 2.762
4400
4200
4000
3800
3600
3400

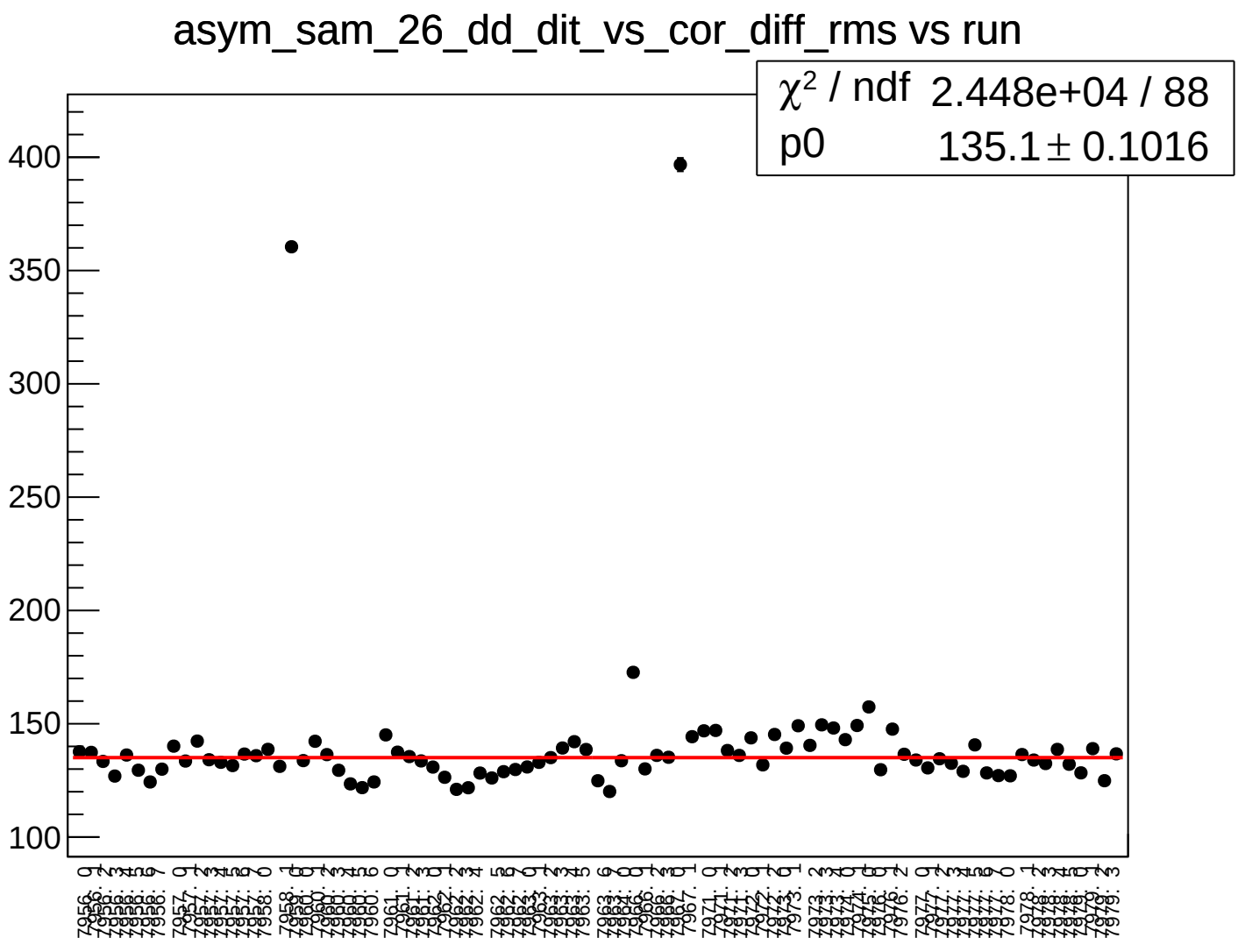

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.41 / 88
p0 −2.125e−12 ± 6.712e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 29.26
Std Dev 23.25
2
1
0
−1
−2

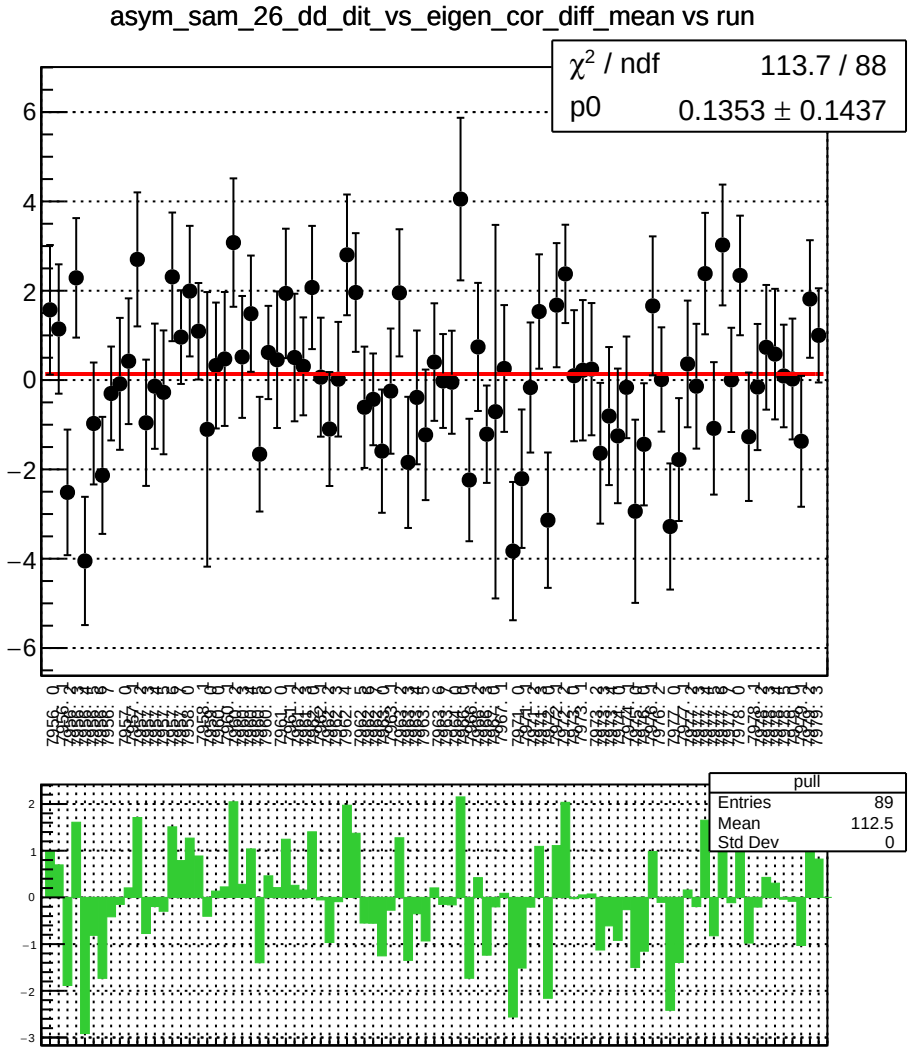

pull1D
Entries 89
Mean 0.1175
Std Dev 0.9668
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

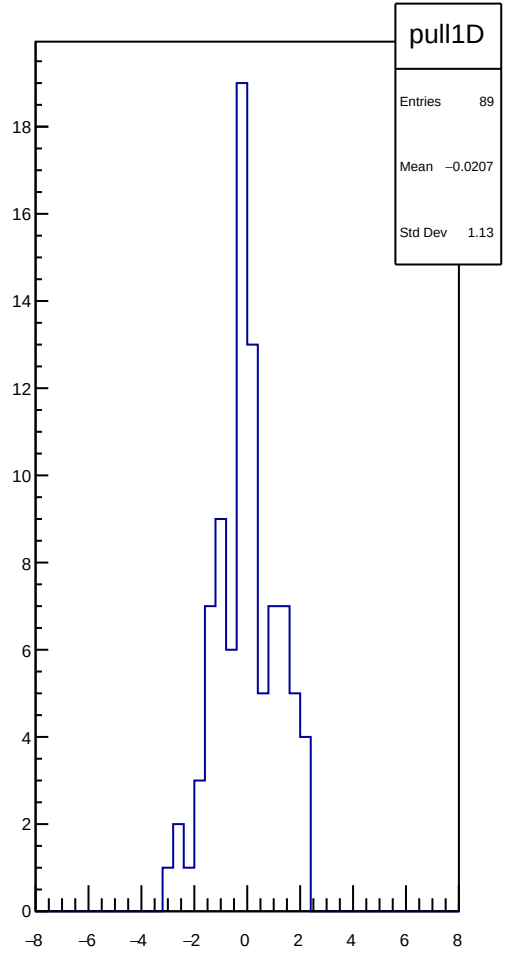

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.976e+05 / 88
p0 4.226e−10 ± 4.746e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

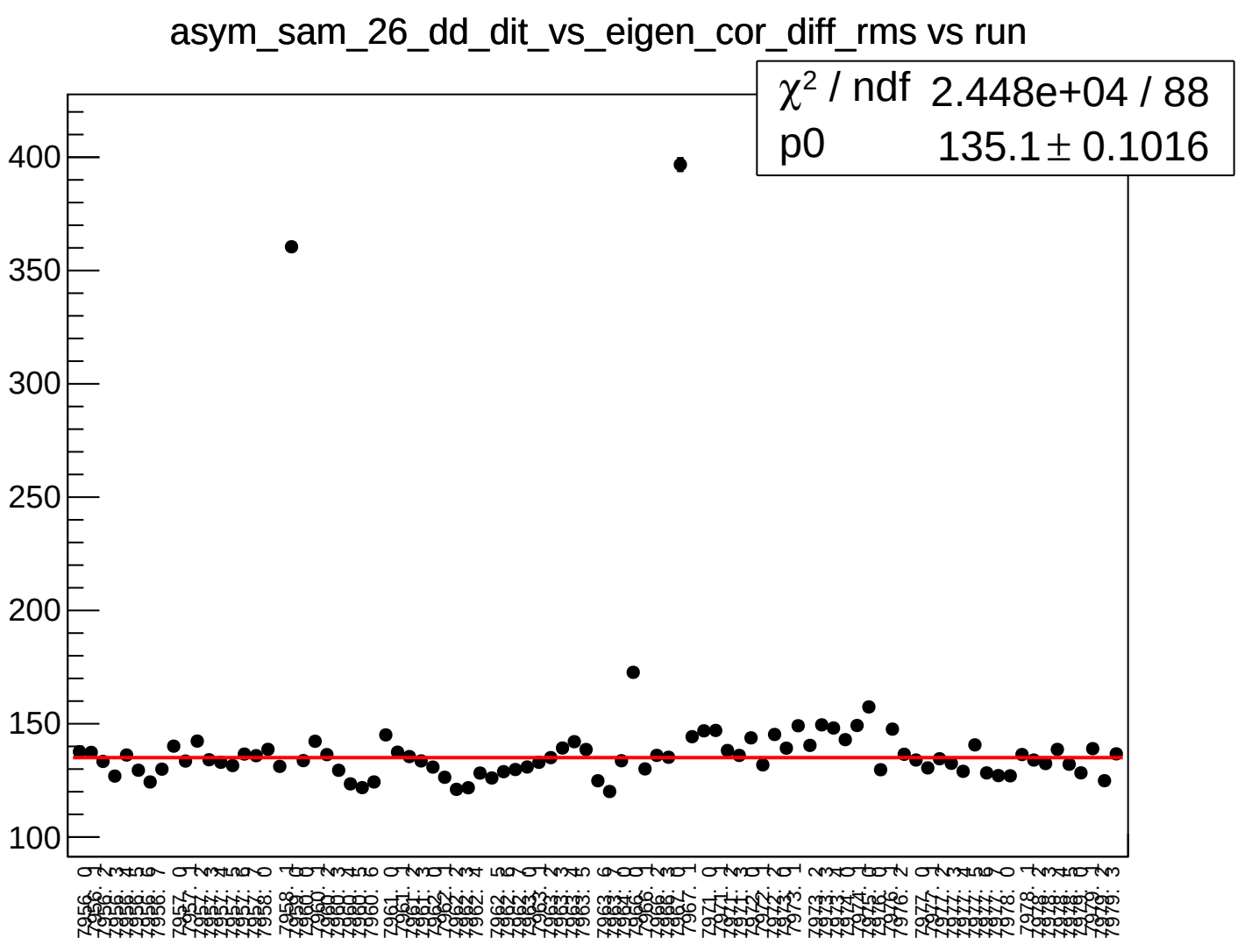

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.7 / 88
p0 0.1353 ± 0.1437
pull
Entries 89
Mean 112.5
Std Dev 0

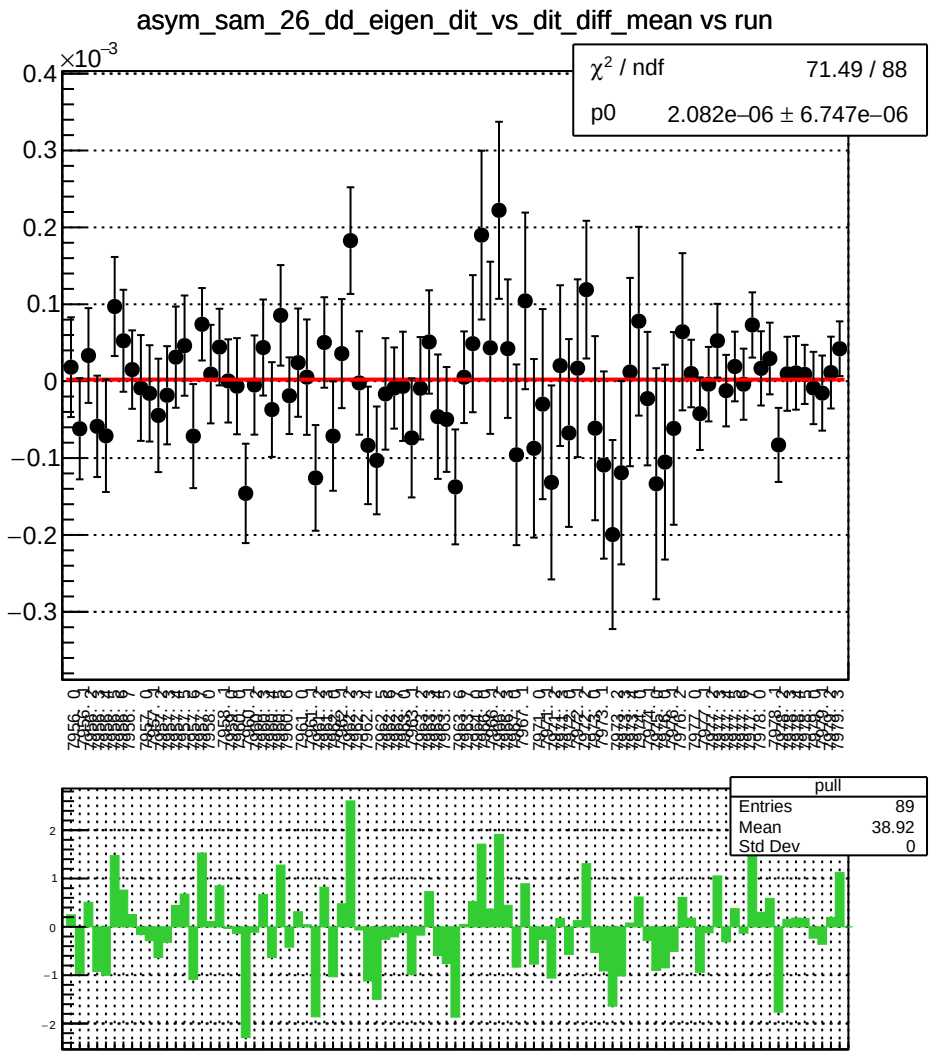

pull1D
Entries 89
Mean −0.0207
Std Dev 1.13

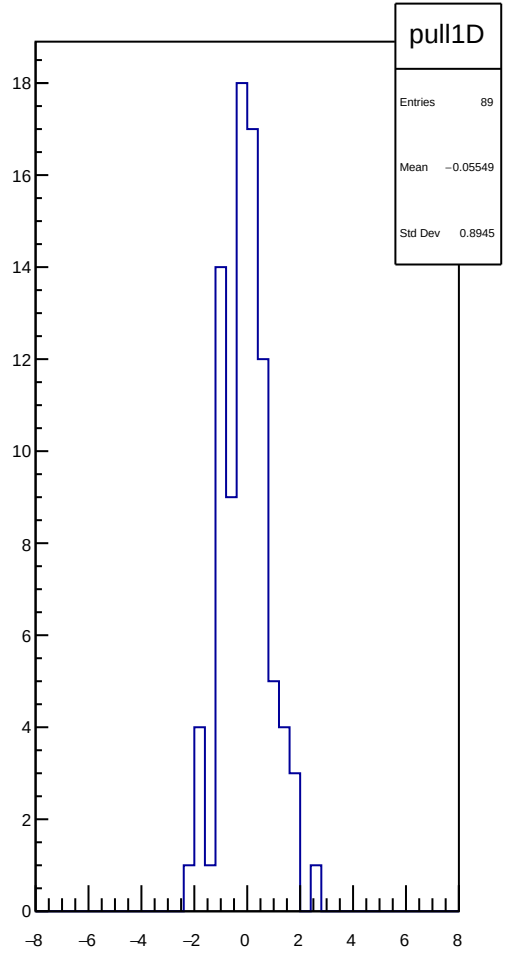

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.448e+04 / 88
p0 135.1 ± 0.1016
400
350
300
250
200
150
100

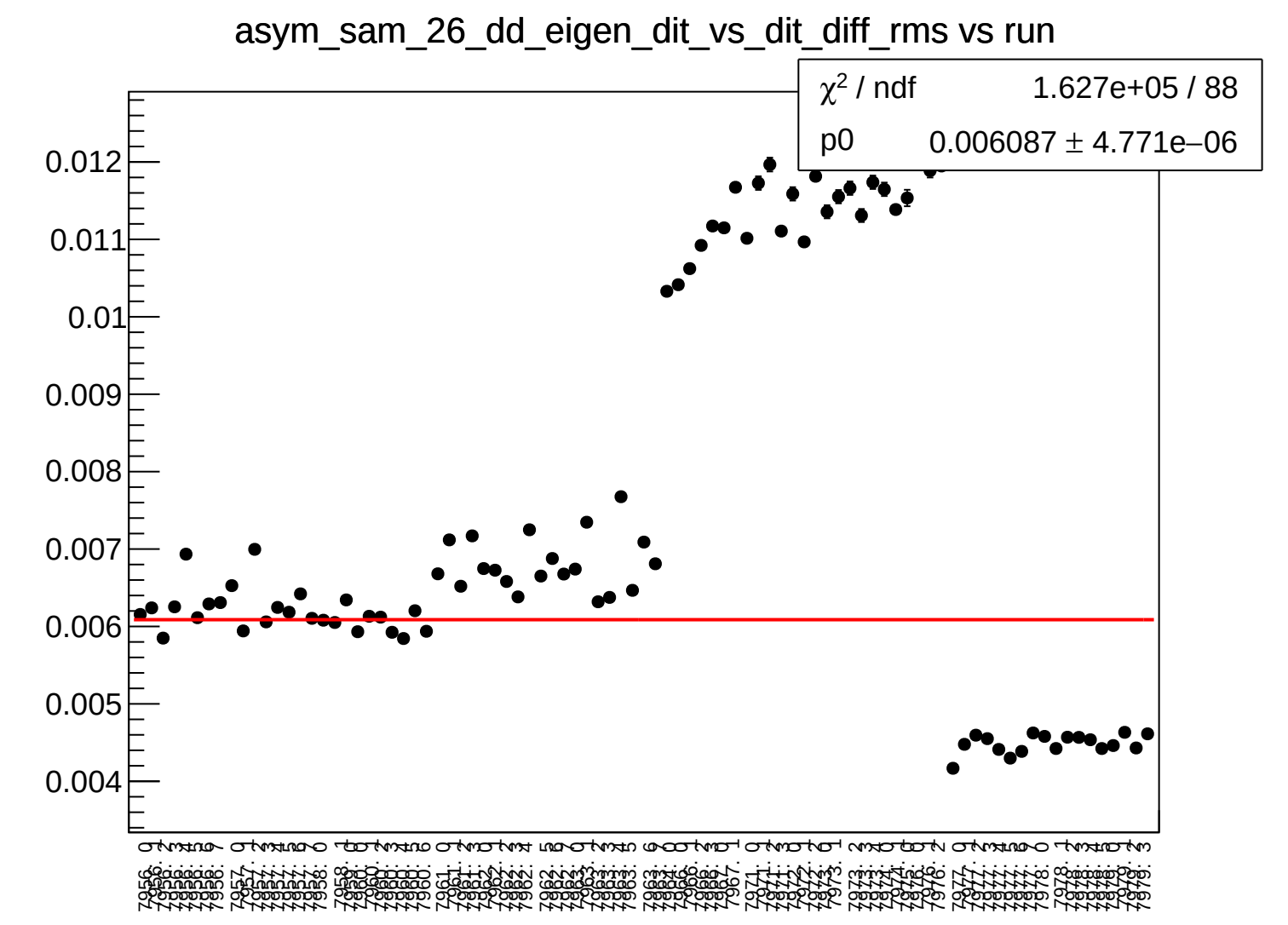

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.7 / 88
p0 0.1353 ± 0.1437
pull
Entries 89
Mean 112.5
Std Dev 0

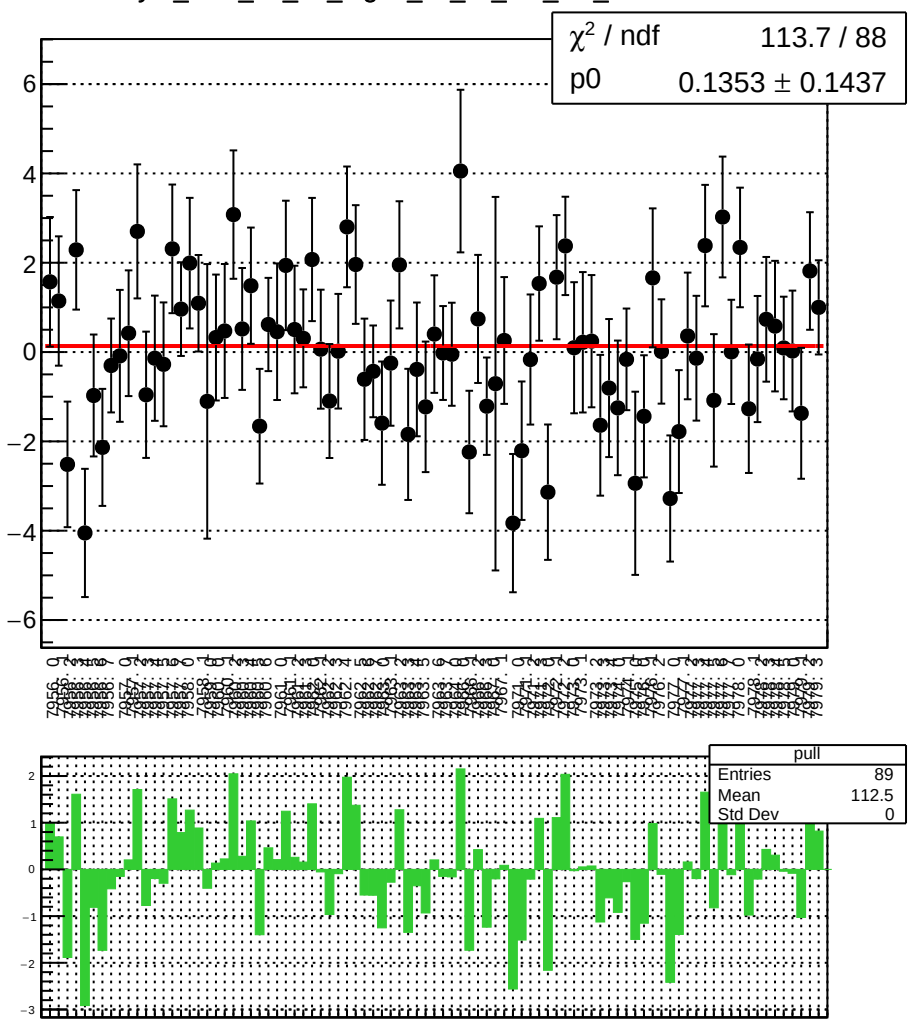

pull1D
Entries 89
Mean −0.0207
Std Dev 1.13

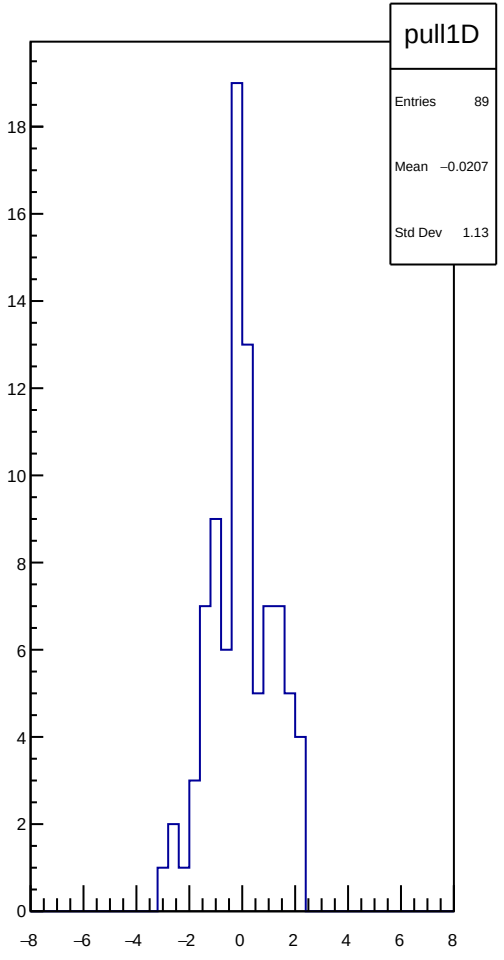

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.448e+04 / 88
p0 135.1 ± 0.1016
400
350
300
250
200
150
100

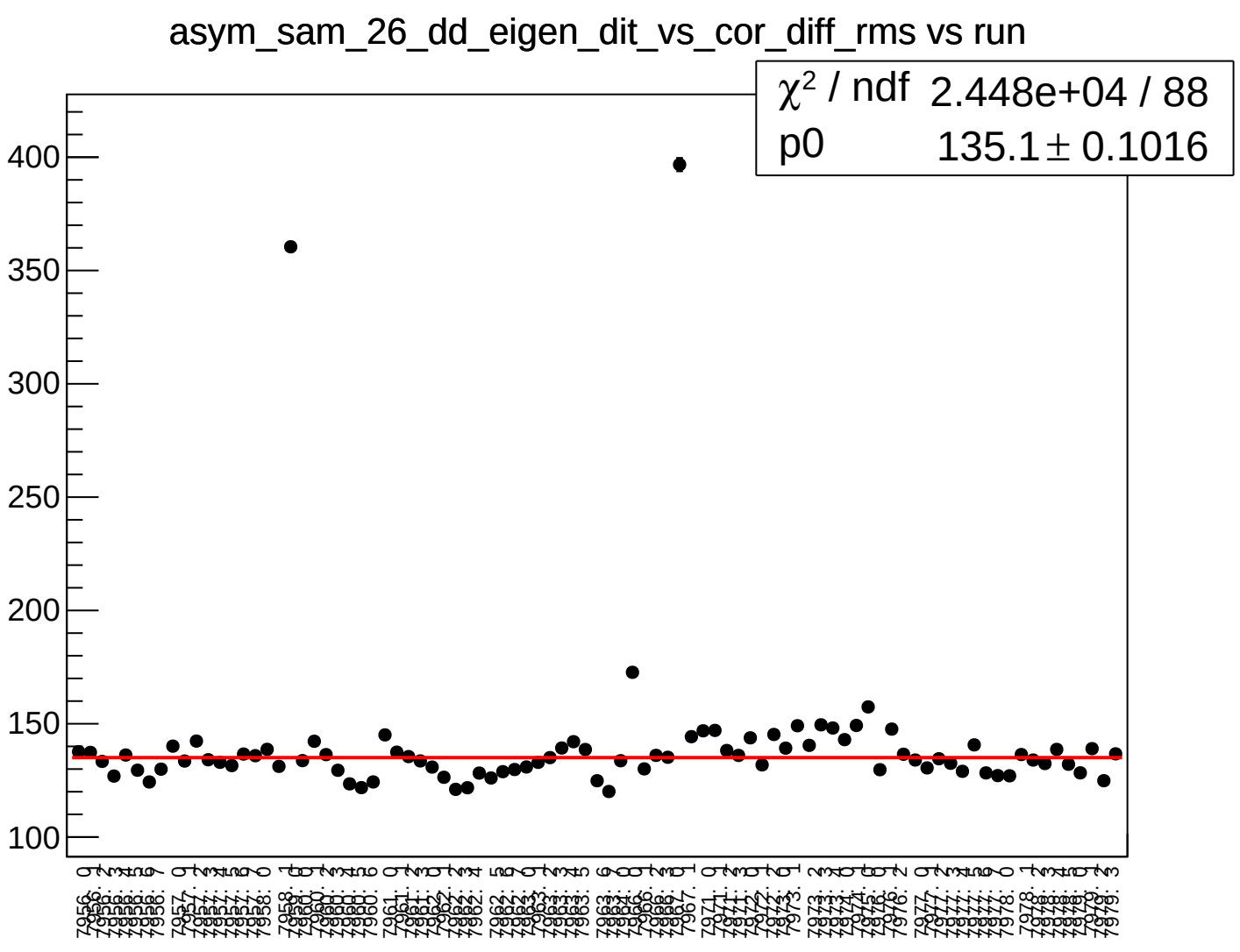

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.49 / 88
p0 2.082e−06 ± 6.747e−06
pull
Entries 89
Mean 38.92
Std Dev 0

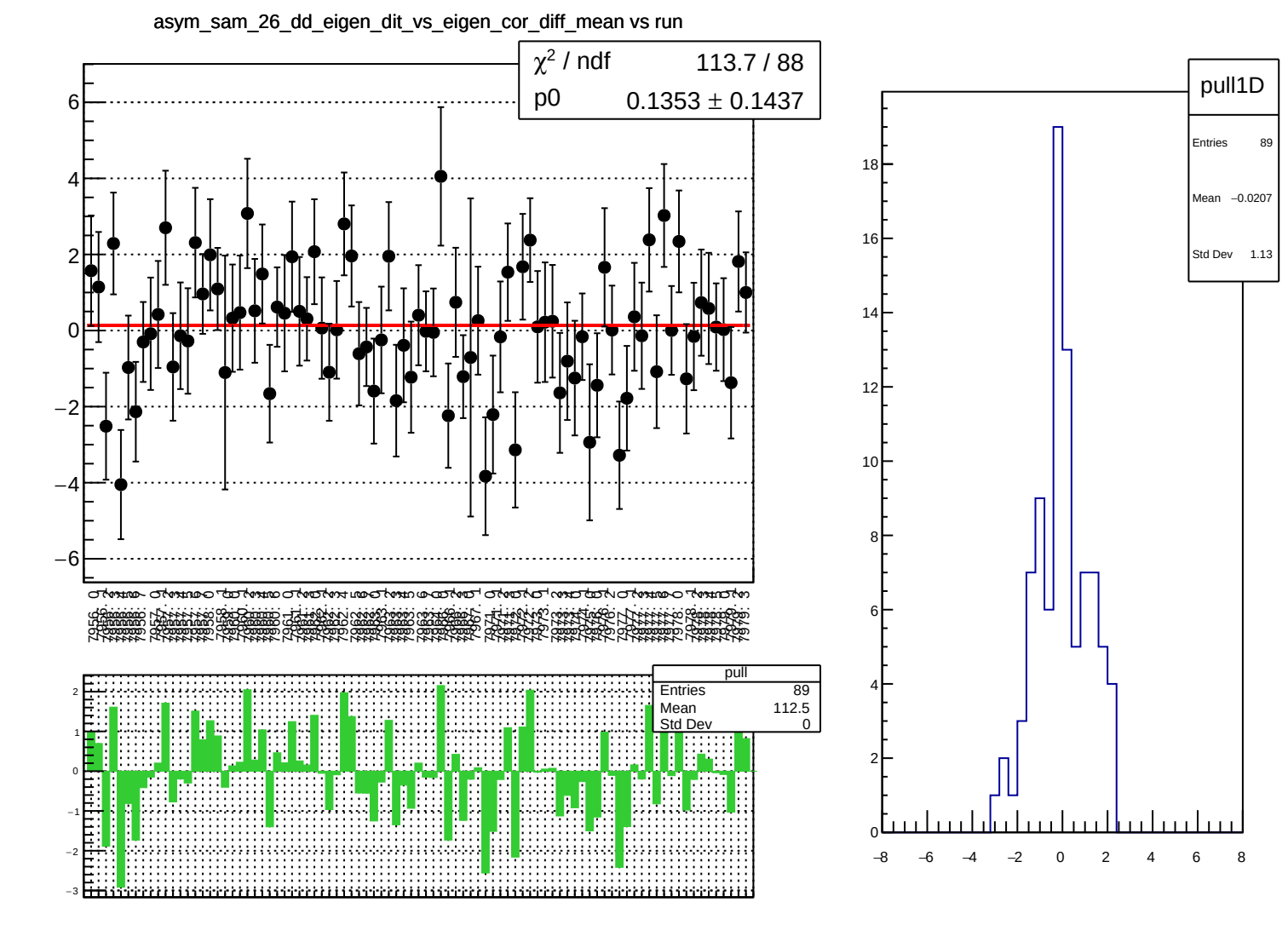

pull1D
Entries 89
Mean −0.05549
Std Dev 0.8945

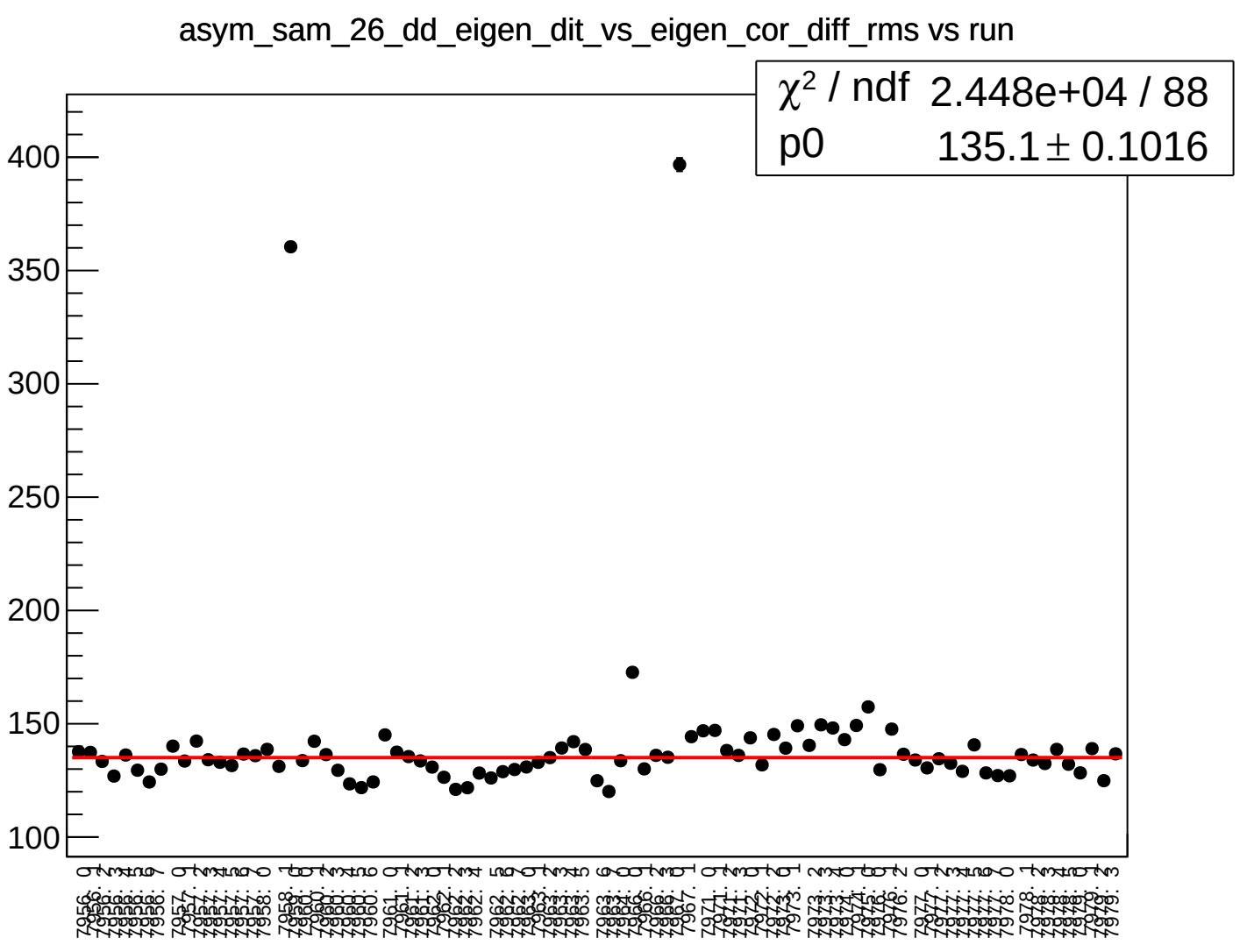

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.627e+05 / 88
p0 0.006087 ± 4.771e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

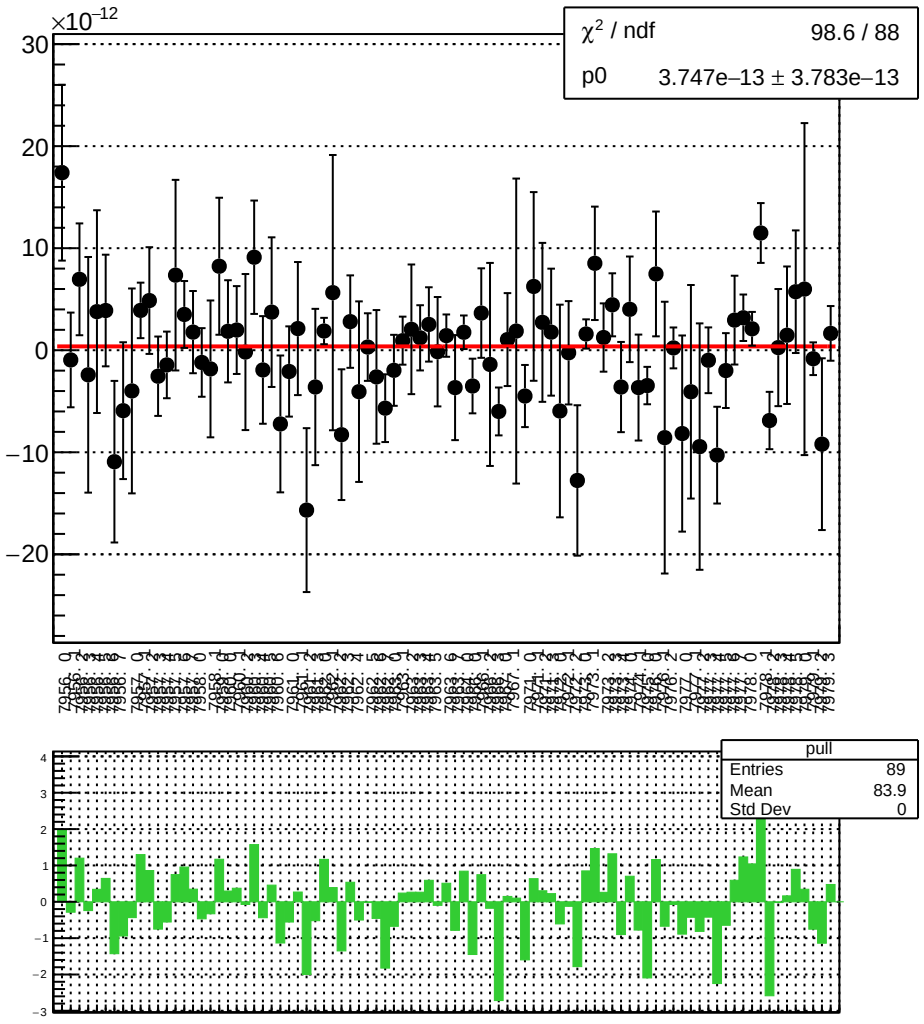

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.7 / 88
p0 0.1353 ± 0.1437
pull
Entries 89
Mean 112.5
Std Dev 0

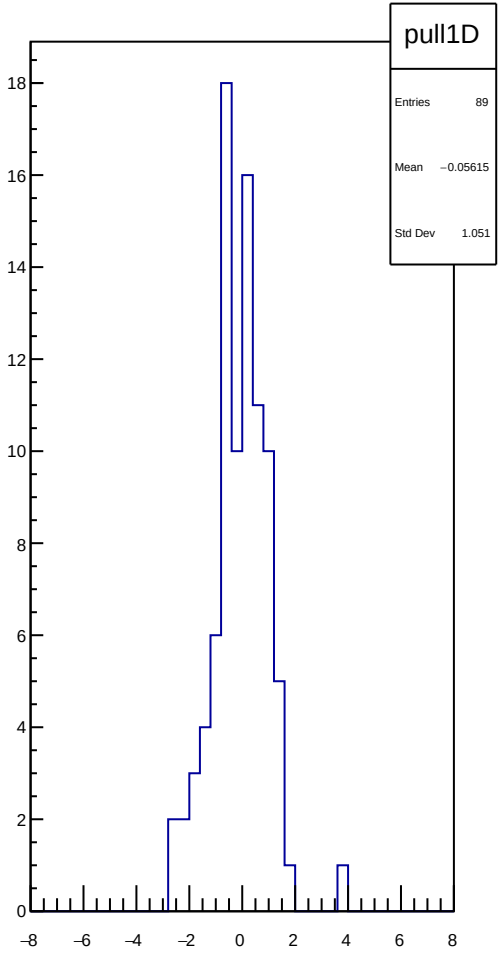

pull1D
Entries 89
Mean −0.0207
Std Dev 1.13

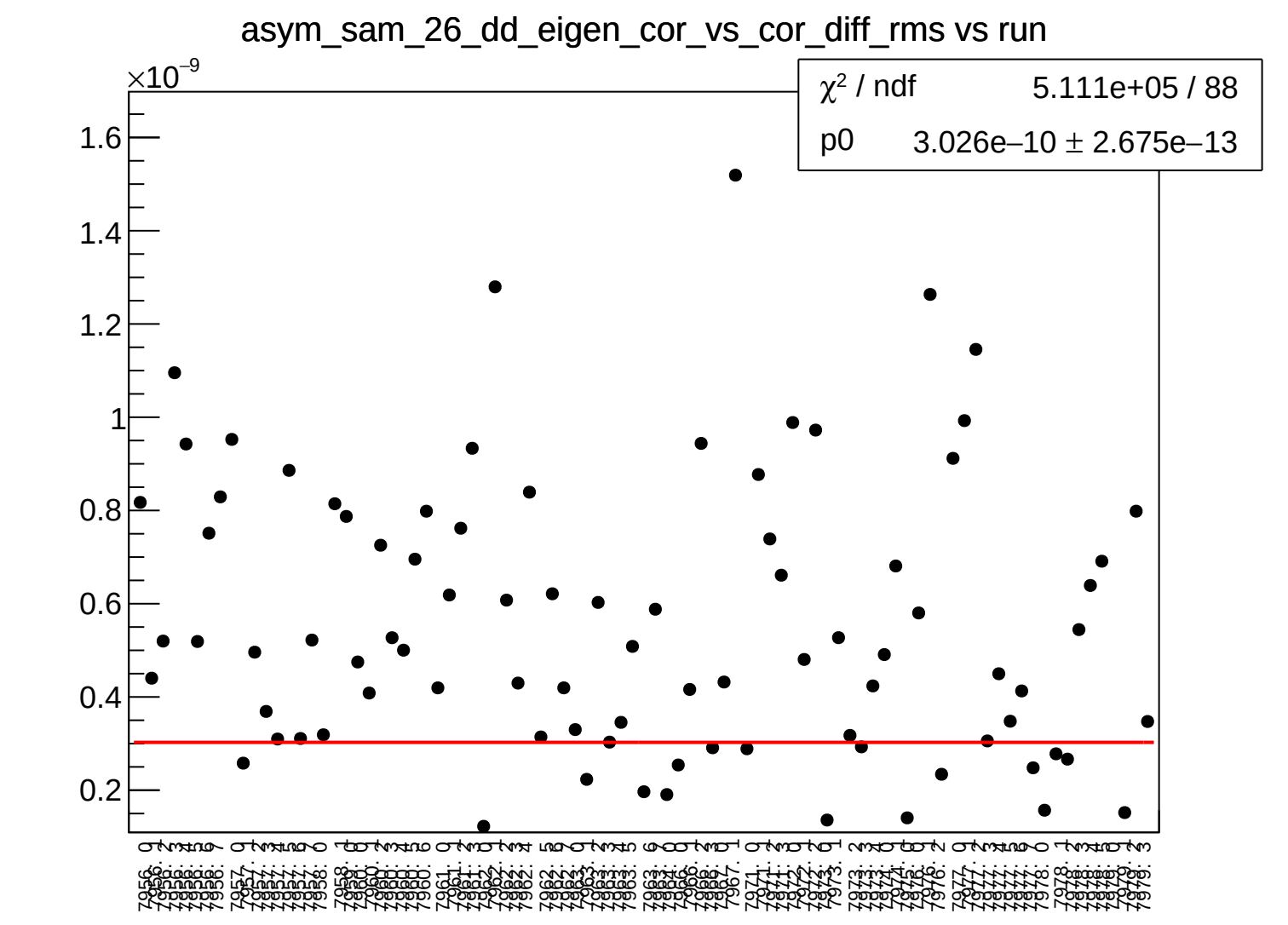

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.448e+04 / 88
p0 135.1 ± 0.1016
400
350
300
250
200
150
100

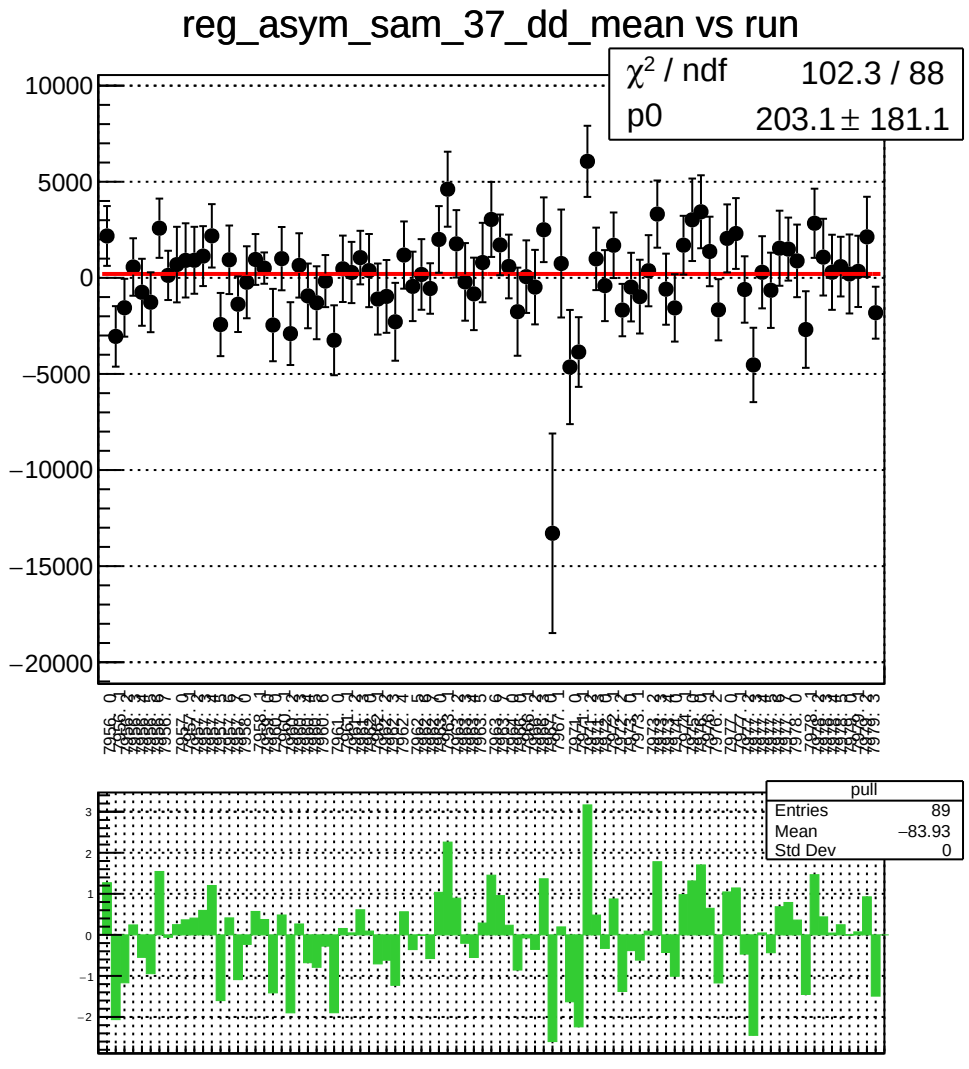

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.7 / 88
p0 0.1353 ± 0.1437
pull
Entries 89
Mean 112.5
Std Dev 0
pull1D
Entries 89
Mean −0.0207
Std Dev 1.13

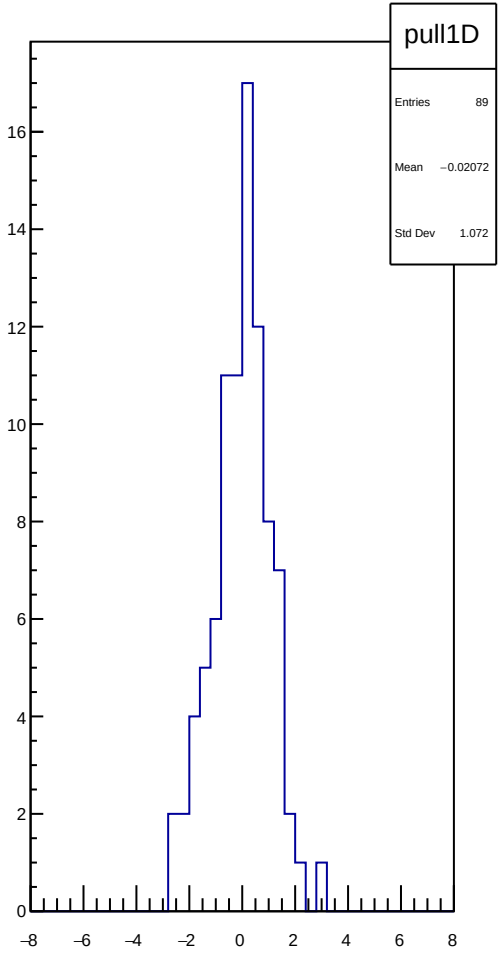

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.448e+04 / 88
p0 135.1 ± 0.1016
400
350
300
250
200
150
100

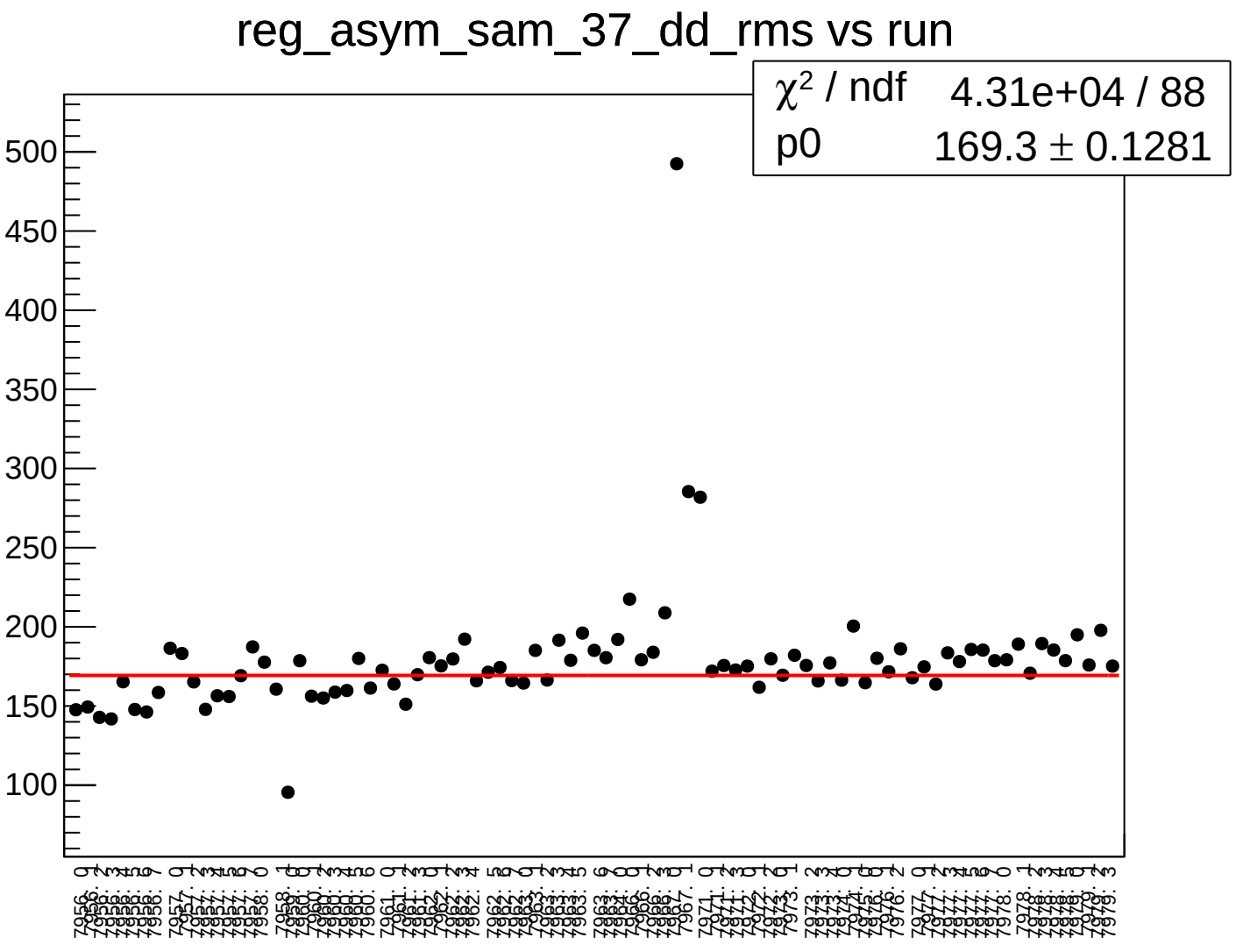

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.6 / 88
p0 3.747e−13 ± 3.783e−13
pull
Entries 89
Mean 83.9
Std Dev 0

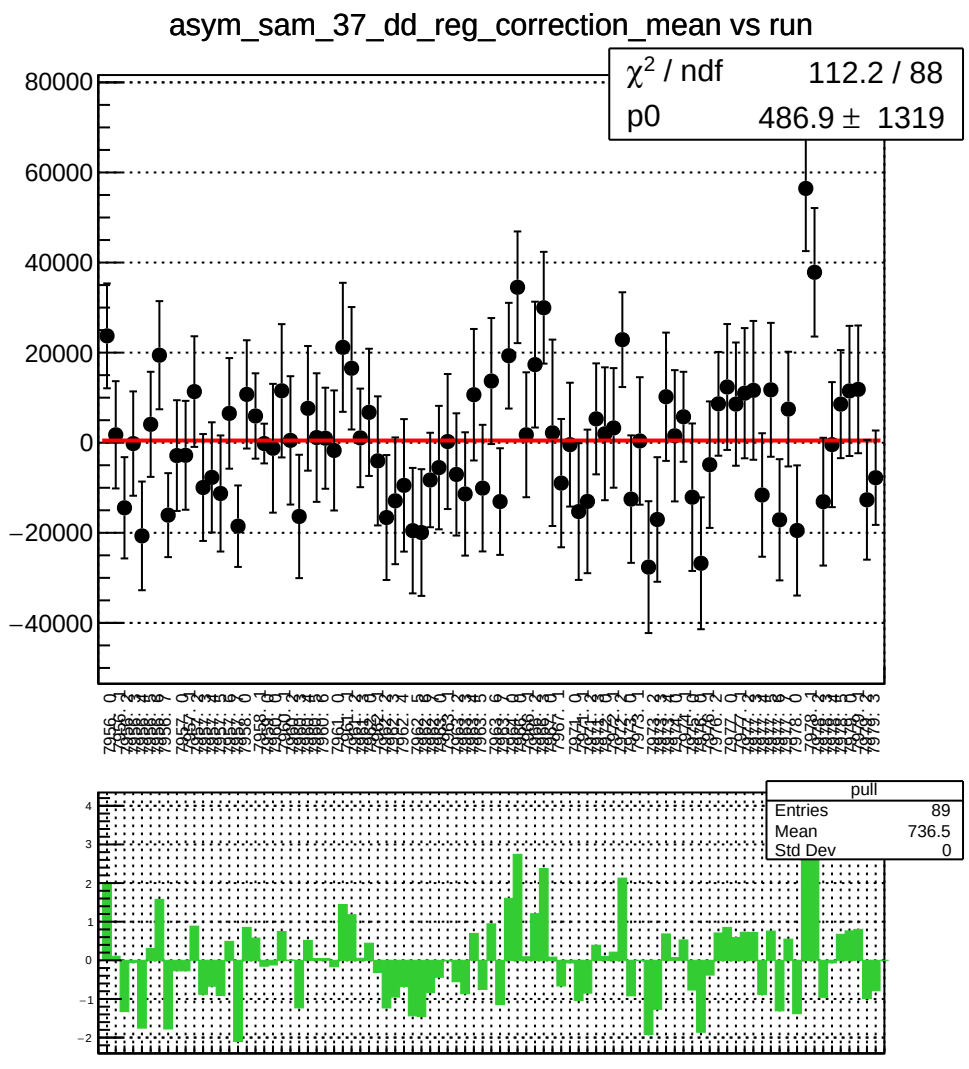

pull1D
Entries 89
Mean −0.05615
Std Dev 1.051

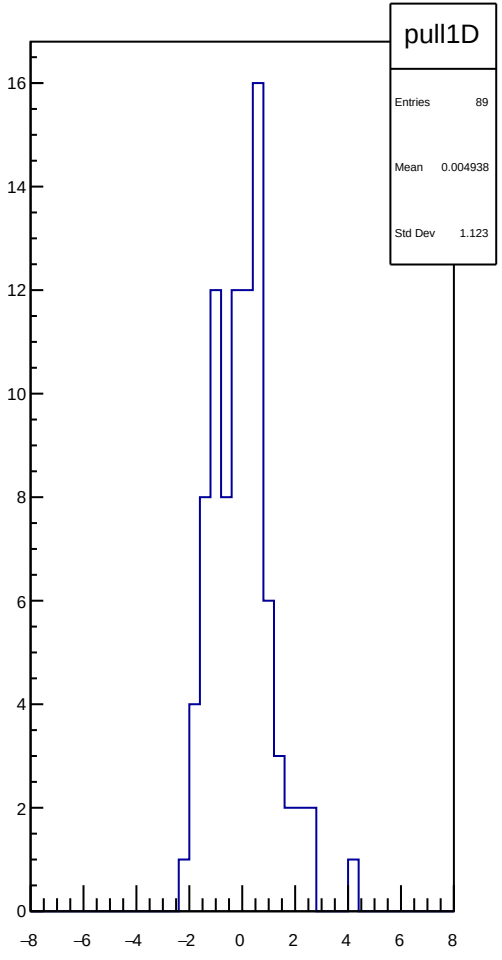

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.111e+05 / 88
p0 3.026e−10 ± 2.675e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

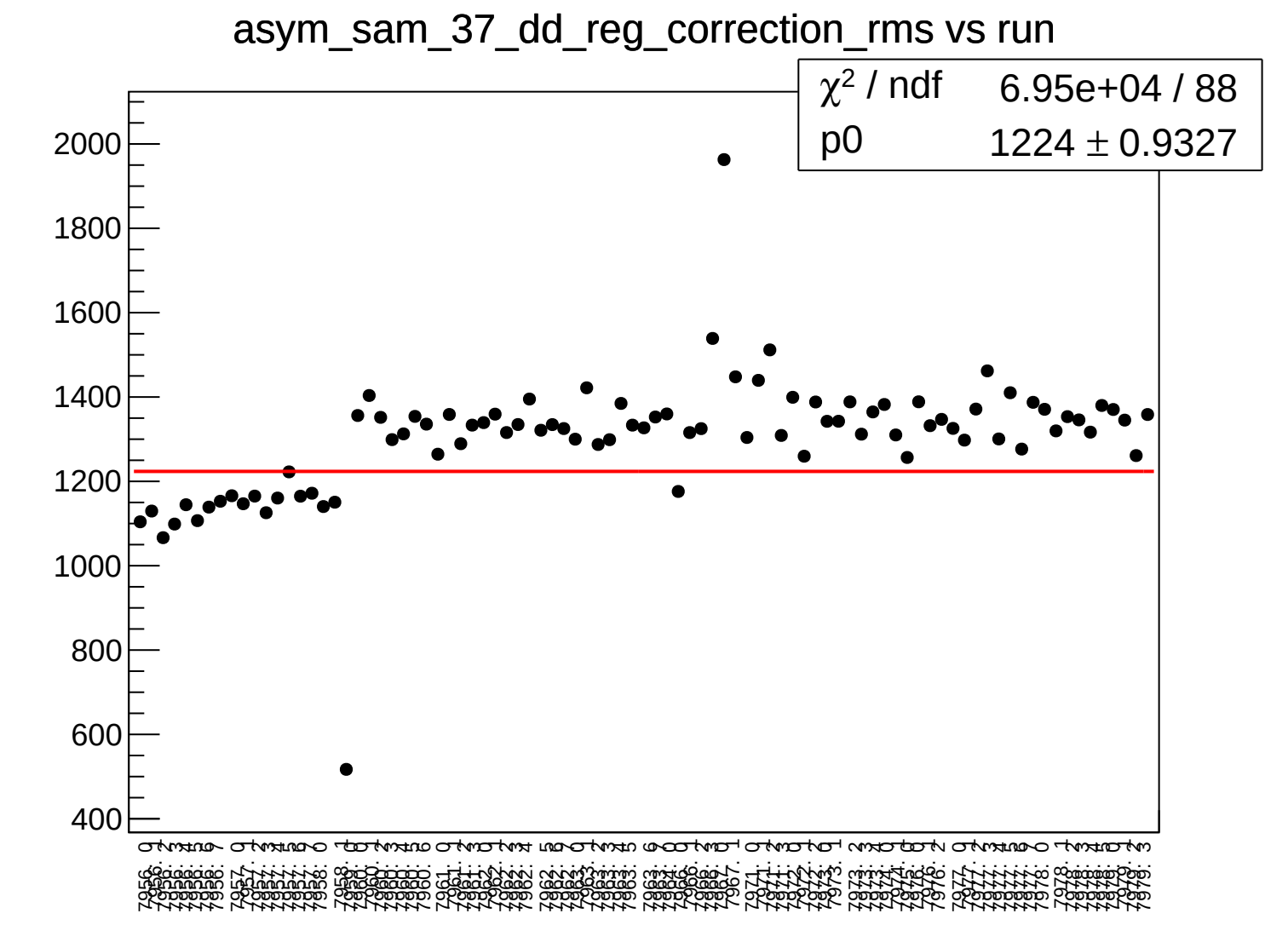

reg_asym_sam_37_dd_mean vs run
χ² / ndf 102.3 / 88
p0 203.1 ± 181.1
pull
Entries 89
Mean −83.93
Std Dev 0

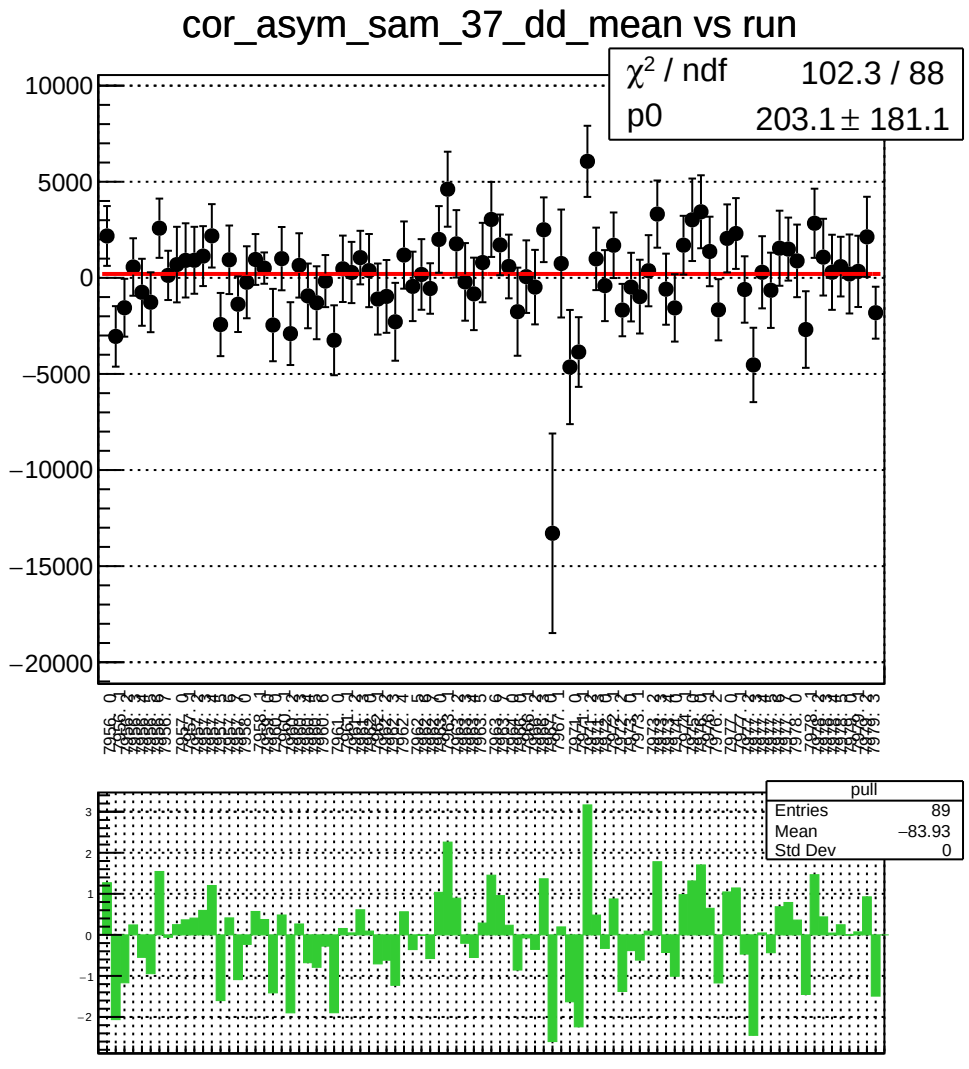

pull1D
Entries 89
Mean −0.02072
Std Dev 1.072

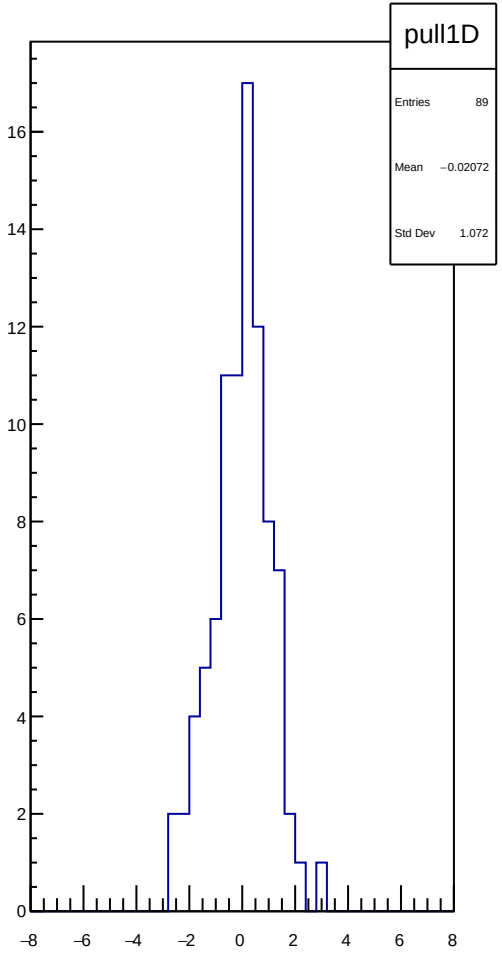

reg_asym_sam_37_dd_rms vs run
χ² / ndf 4.31e+04 / 88
p0 169.3 ± 0.1281
500
450
400
350
300
250
200
150
100

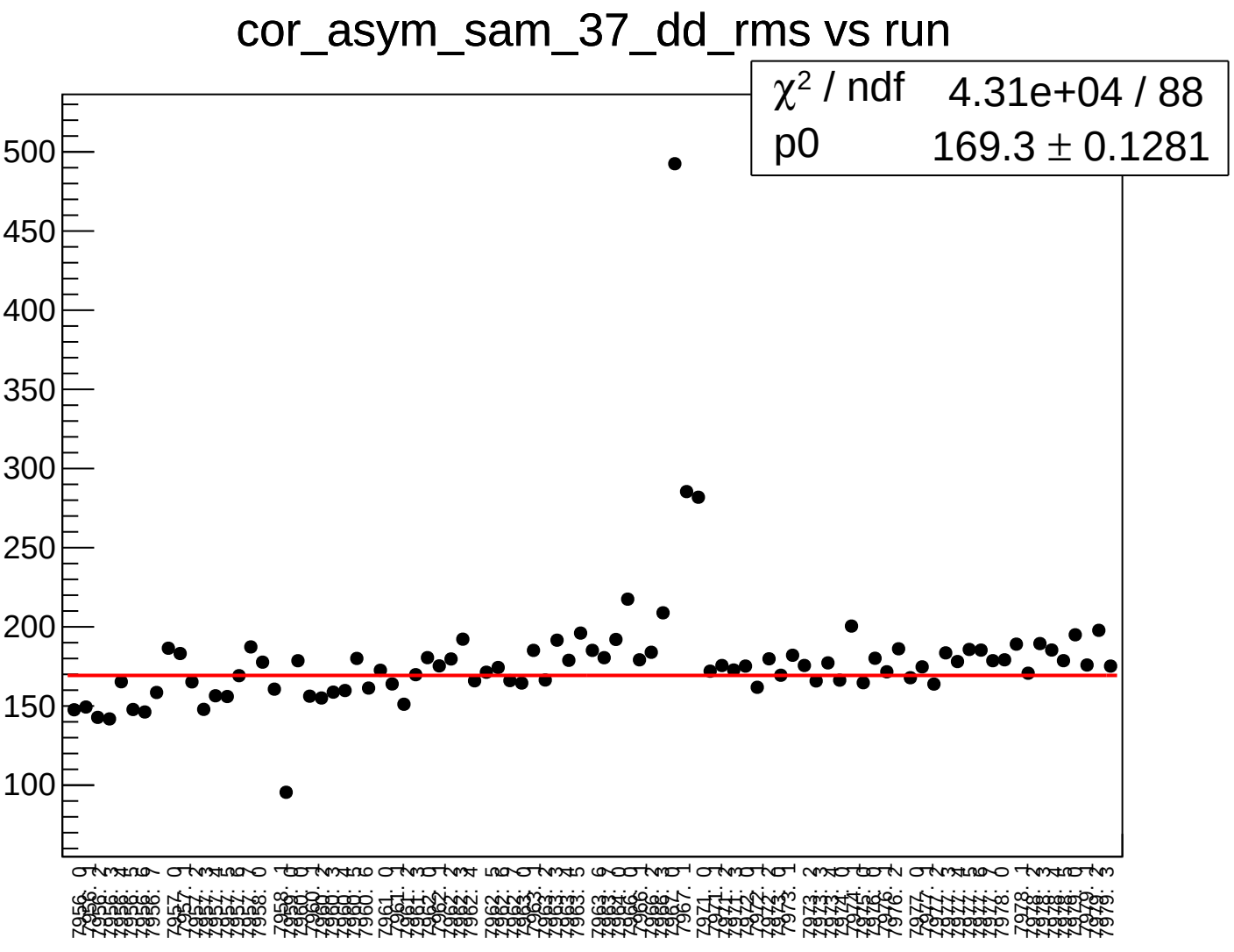

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 112.2 / 88
p0 486.9 ± 1319
pull
Entries 89
Mean 736.5
Std Dev 0

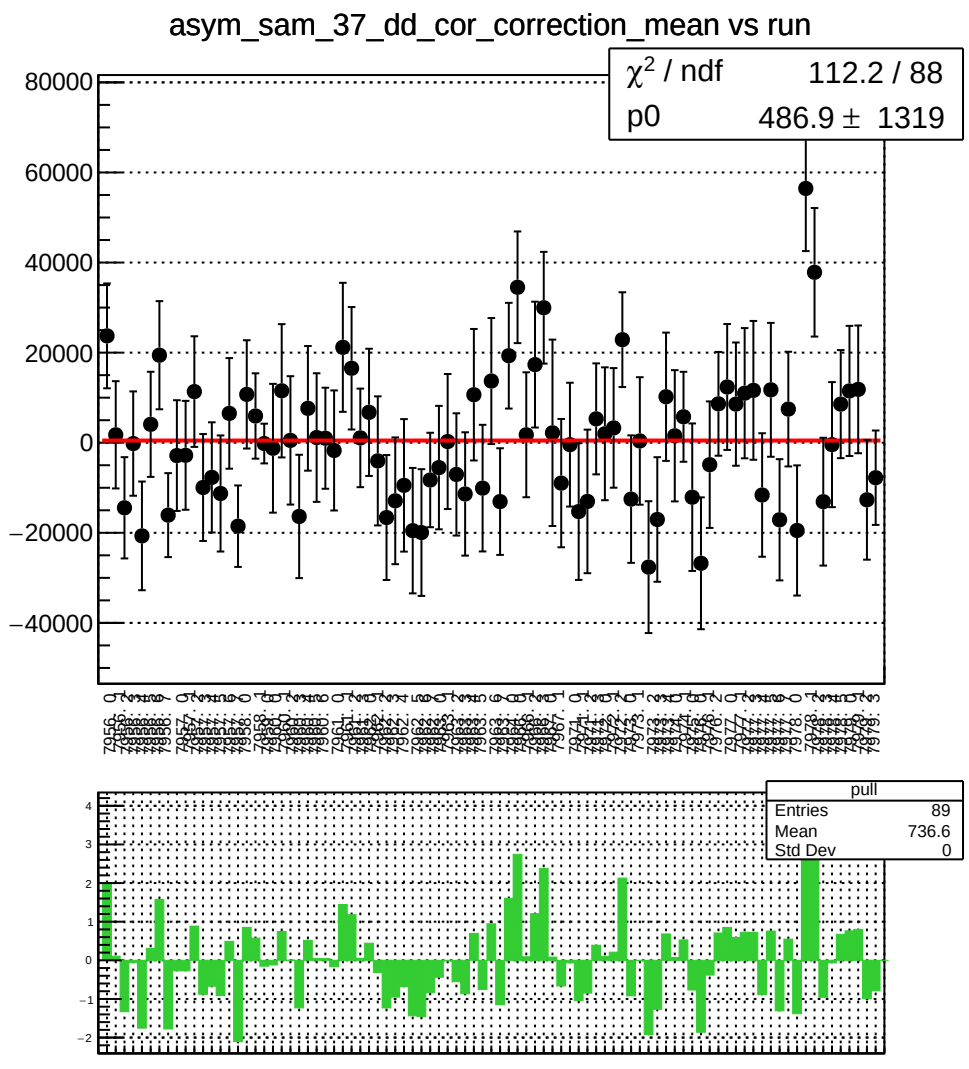

pull1D
Entries 89
Mean 0.004938
Std Dev 1.123

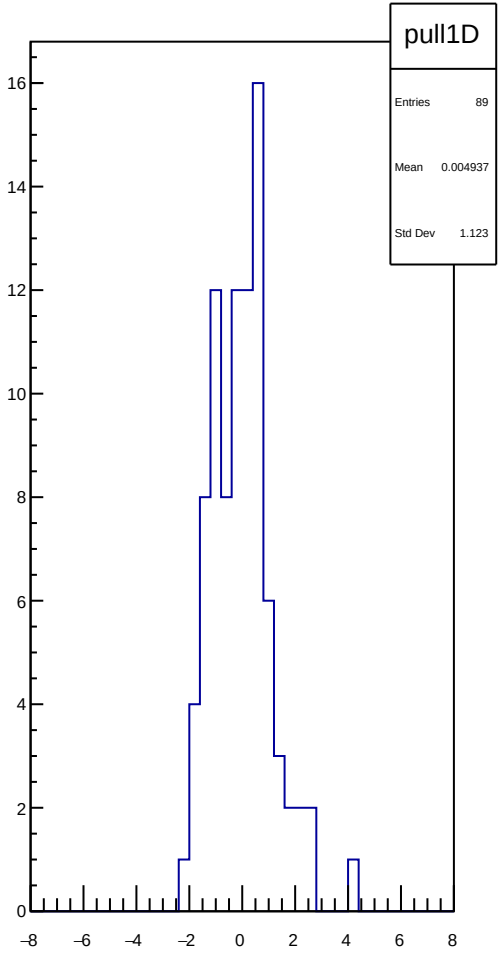

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 6.95e+04 / 88
p0 1224 ± 0.9327
2000
1800
1600
1400
1200
1000
800
600
400

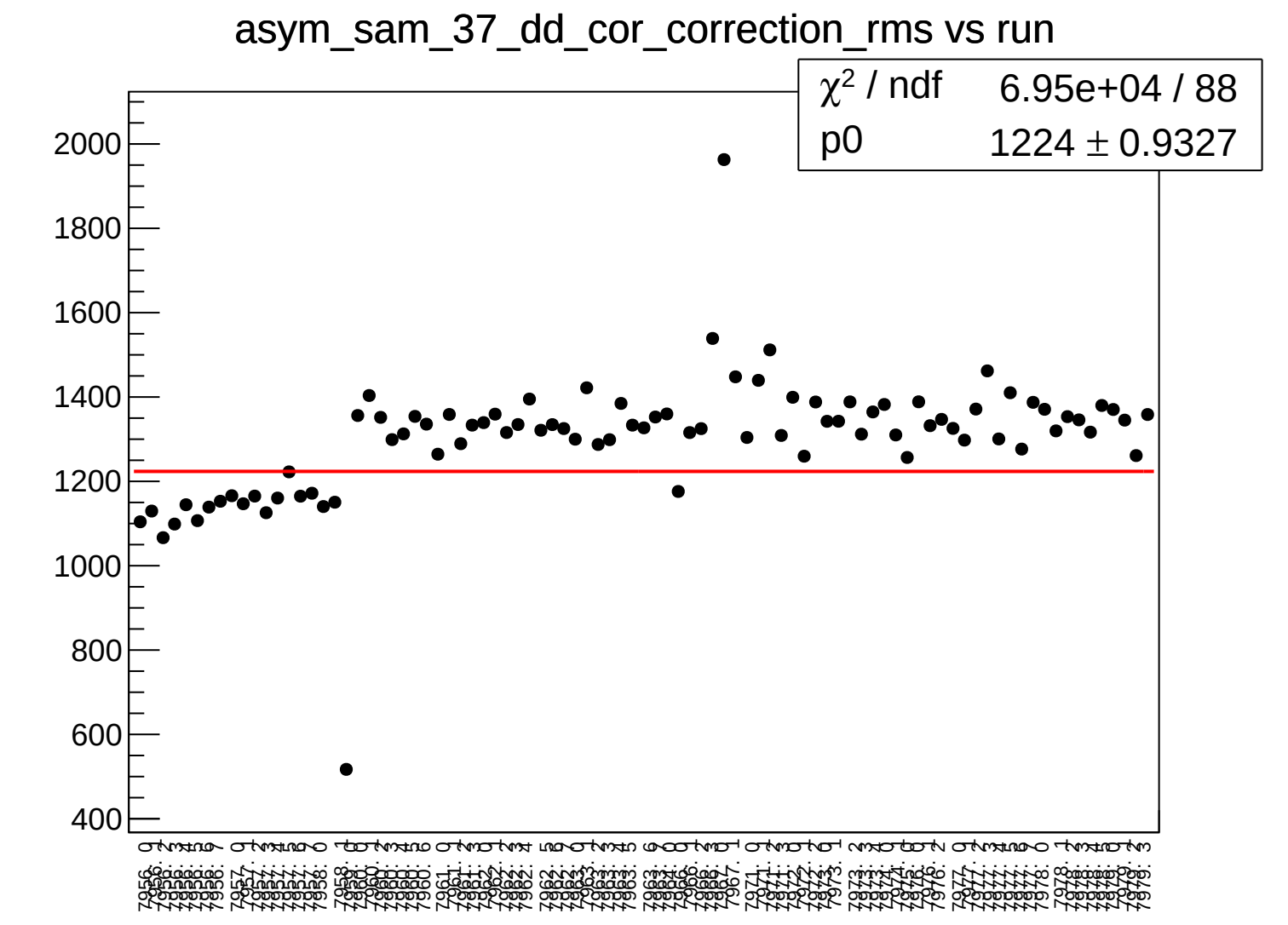

cor_asym_sam_37_dd_mean vs run
χ² / ndf 102.3 / 88
p0 203.1 ± 181.1
pull
Entries 89
Mean −83.93
Std Dev 0

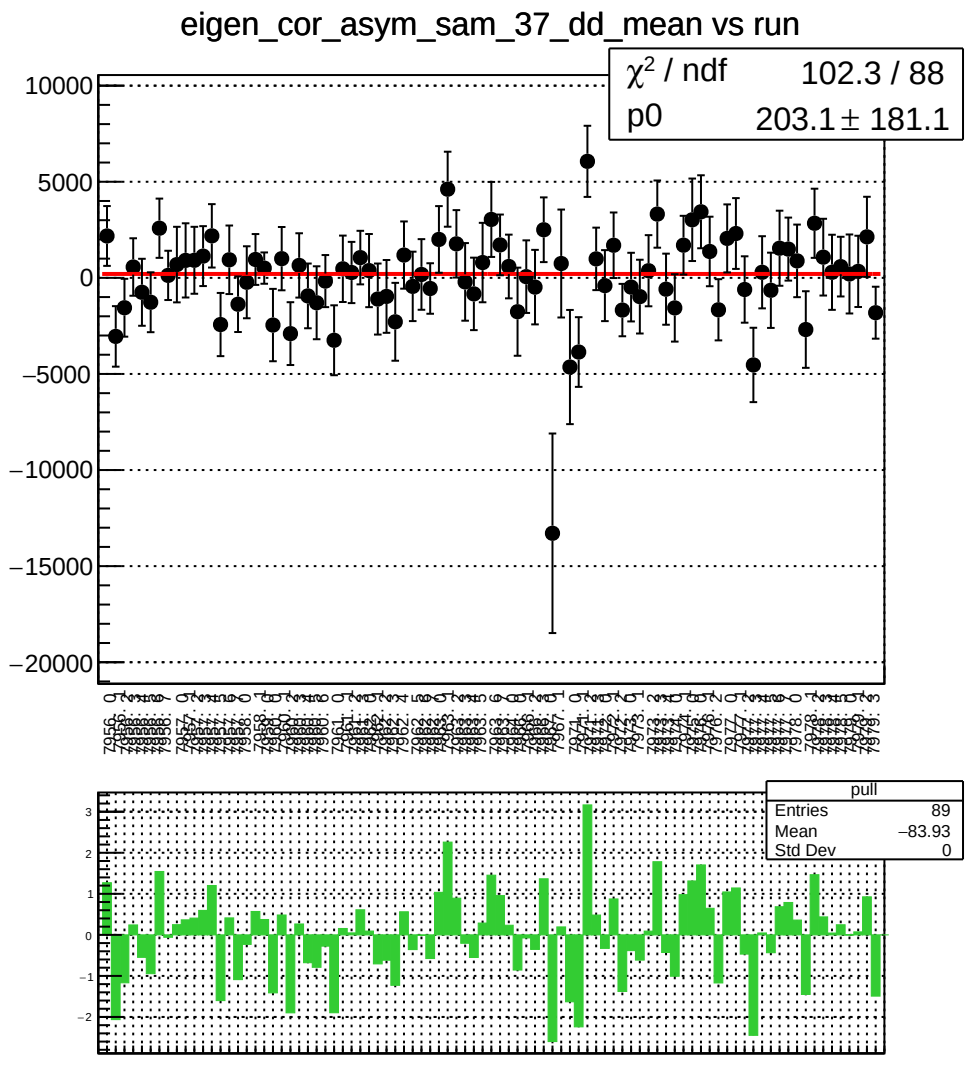

pull1D
Entries 89
Mean −0.02072
Std Dev 1.072

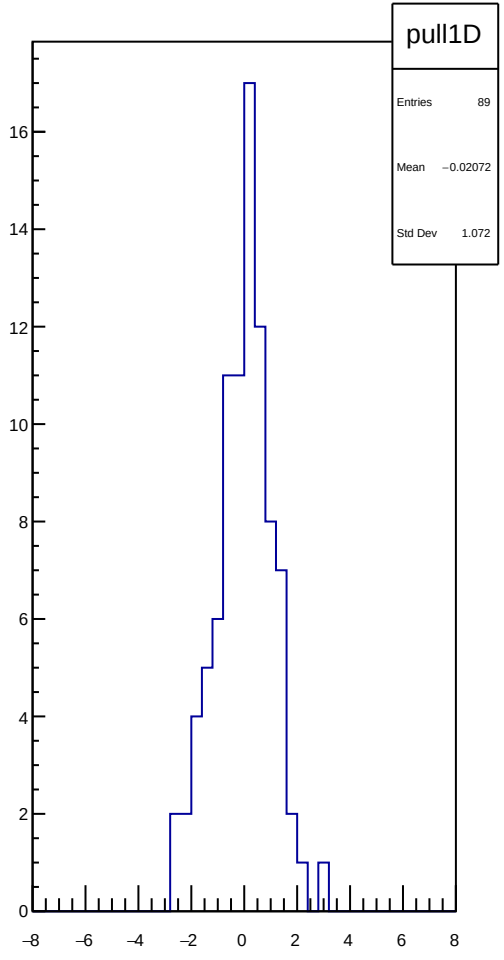

cor_asym_sam_37_dd_rms vs run
χ² / ndf 4.31e+04 / 88
p0 169.3 ± 0.1281
500
450
400
350
300
250
200
150
100

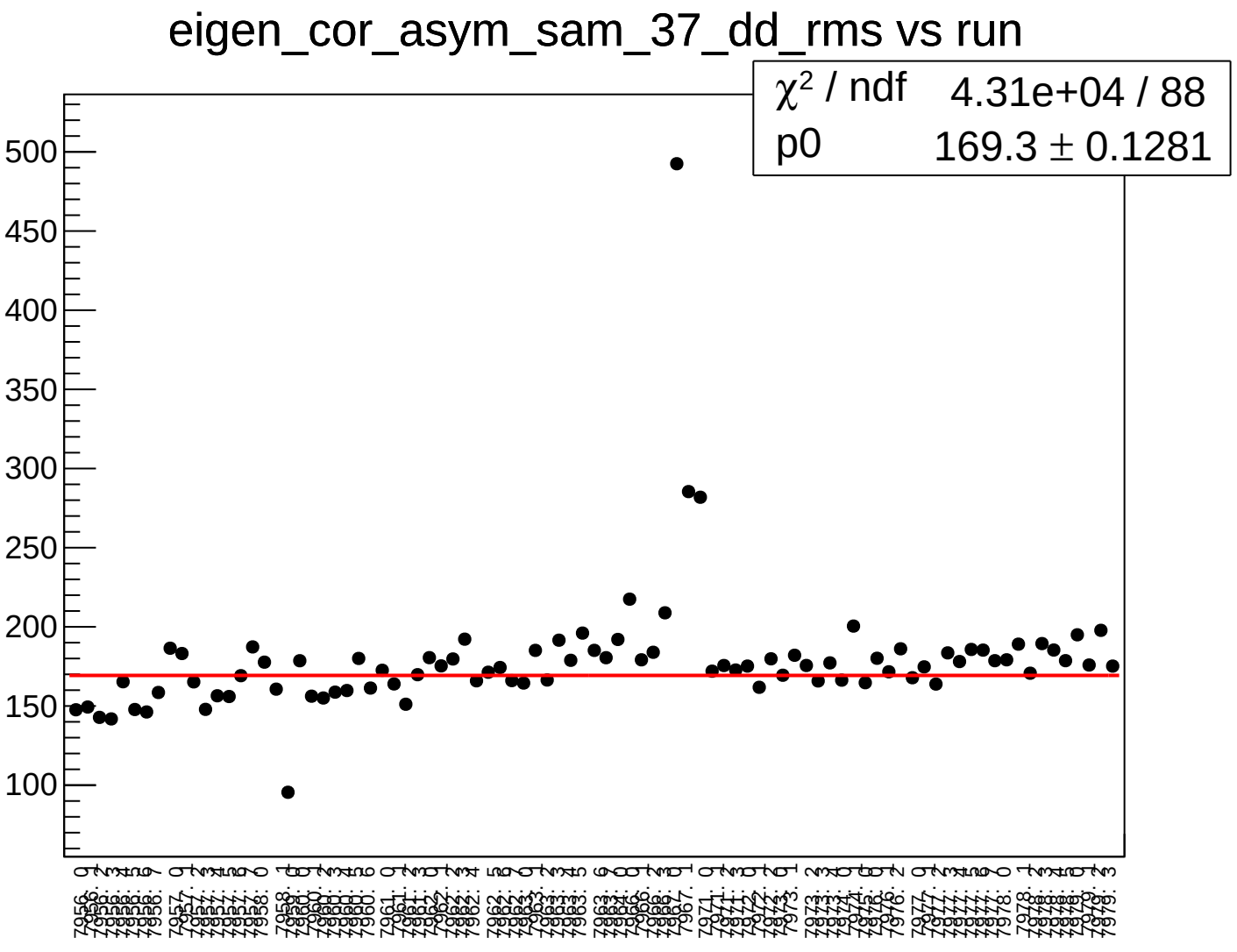

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 112.2 / 88
p0 486.9 ± 1319
pull
Entries 89
Mean 736.6
Std Dev 0

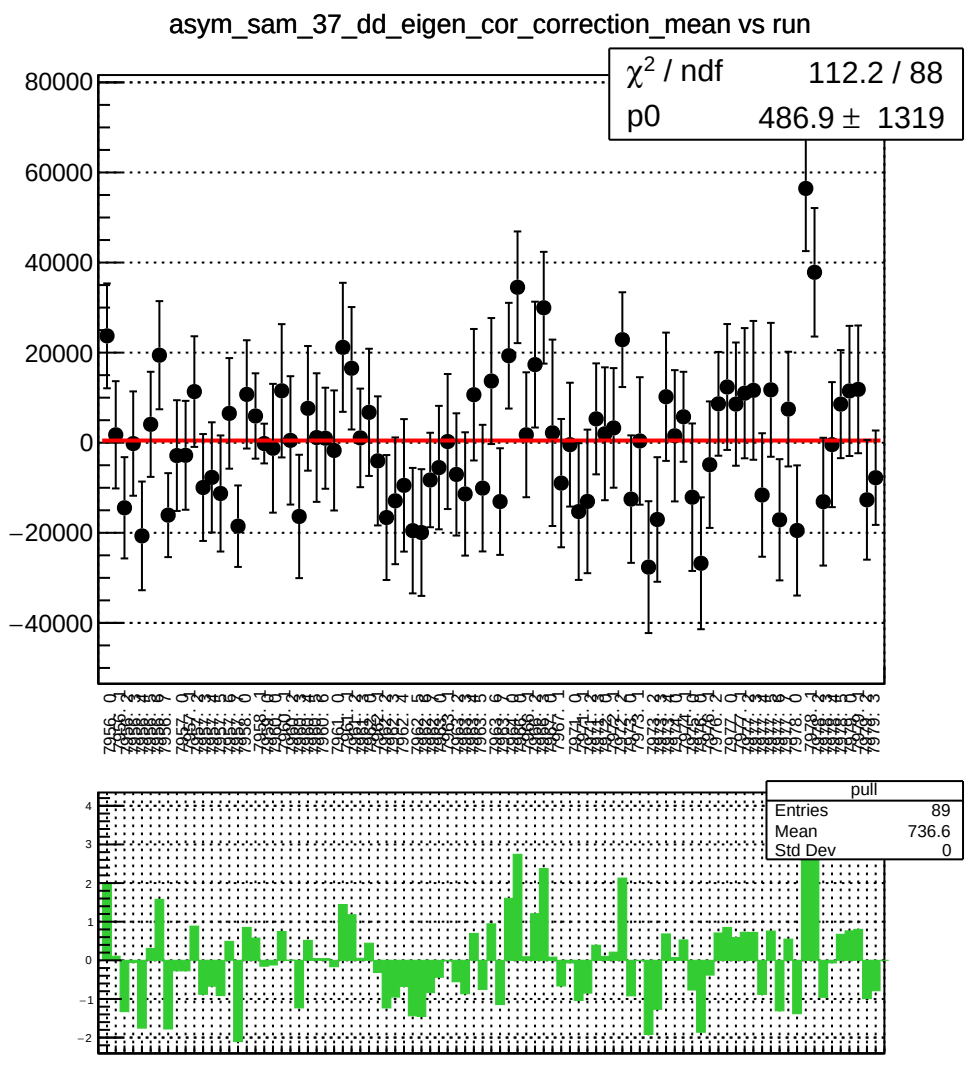

pull1D
Entries 89
Mean 0.004937
Std Dev 1.123

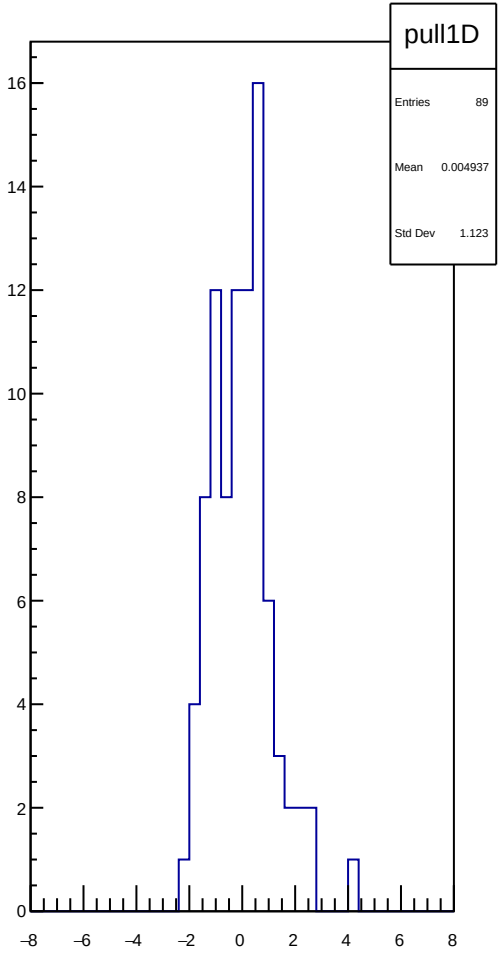

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 6.95e+04 / 88
p0 1224 ± 0.9327
2000
1800
1600
1400
1200
1000
800
600
400

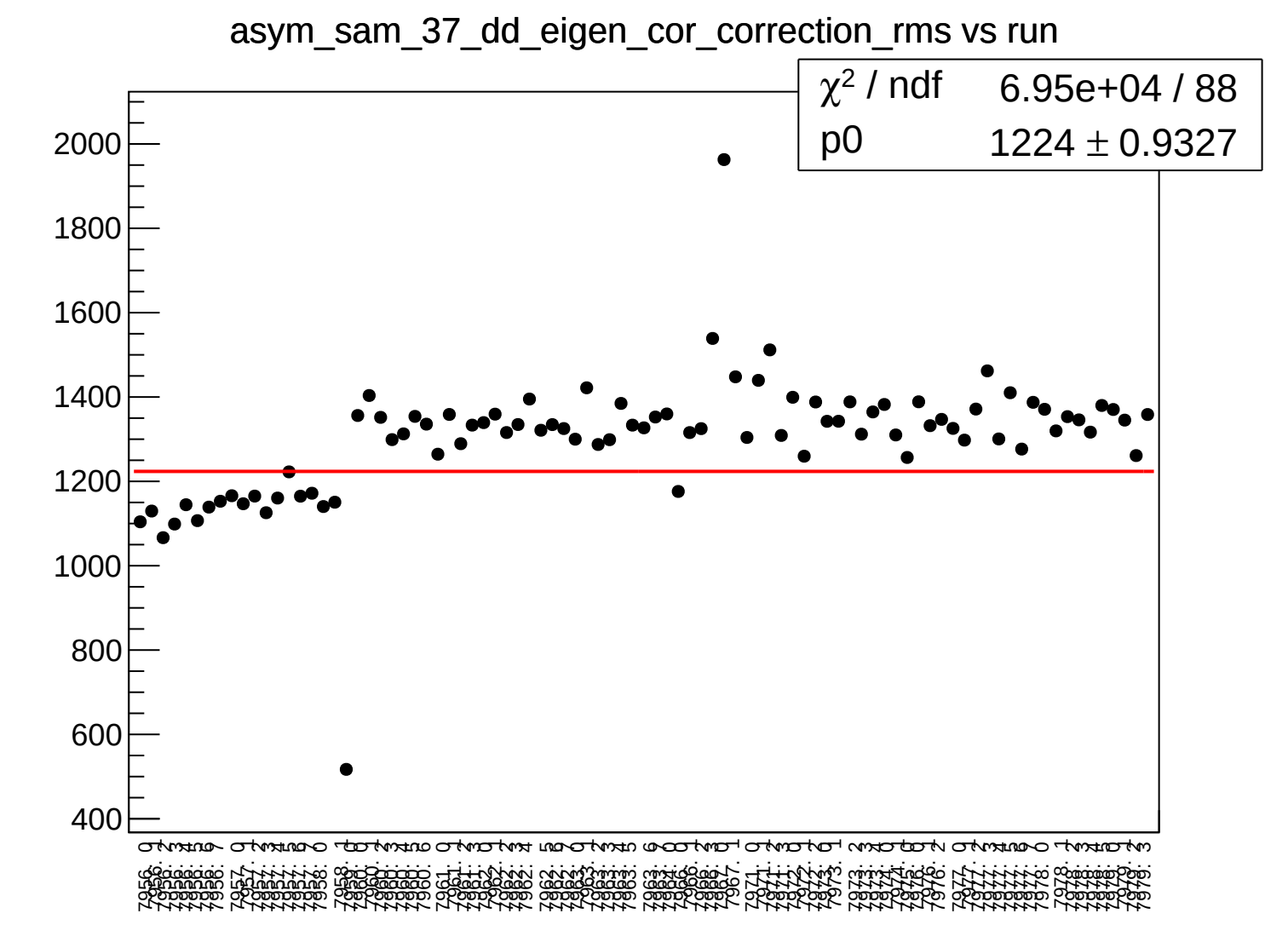

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 102.3 / 88
p0 203.1 ± 181.1
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −83.93
Std Dev 0
3
2
1
0
−1
−2

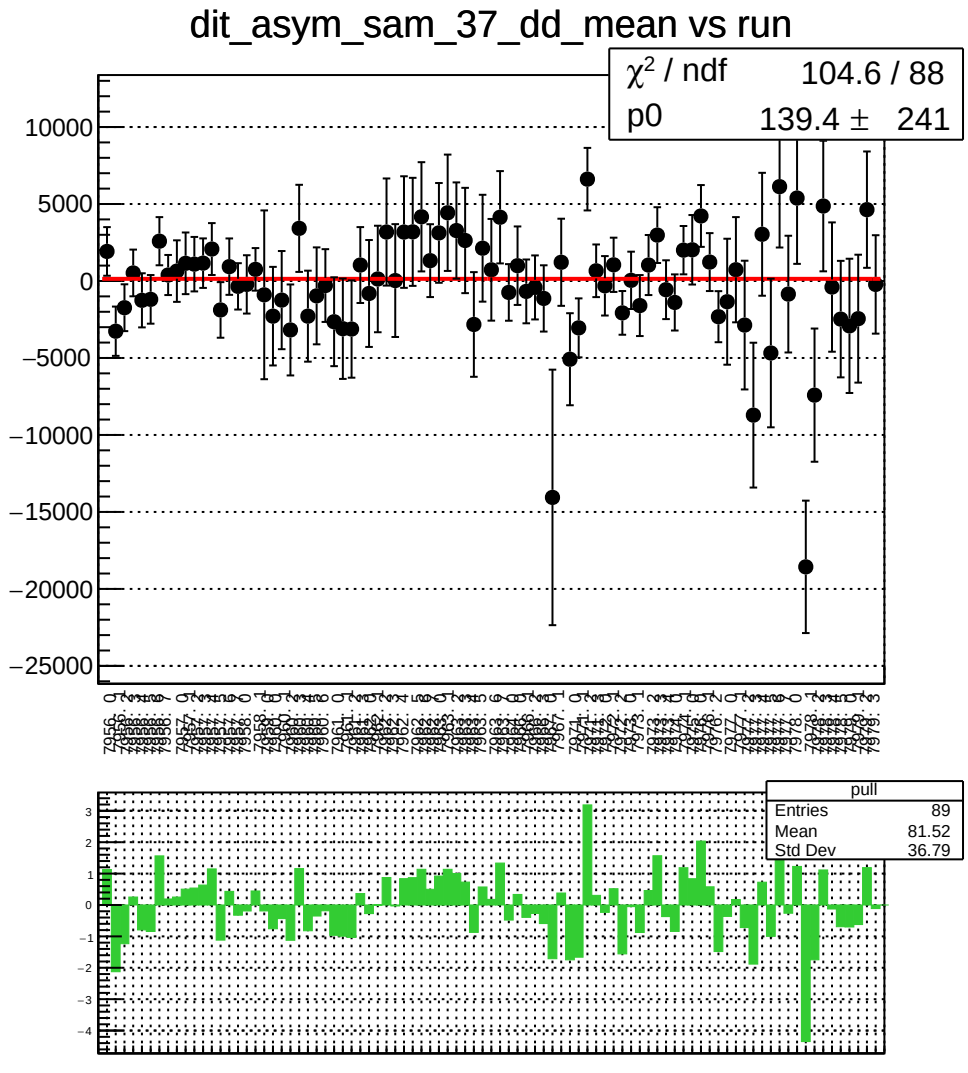

pull1D
Entries 89
Mean −0.02072
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

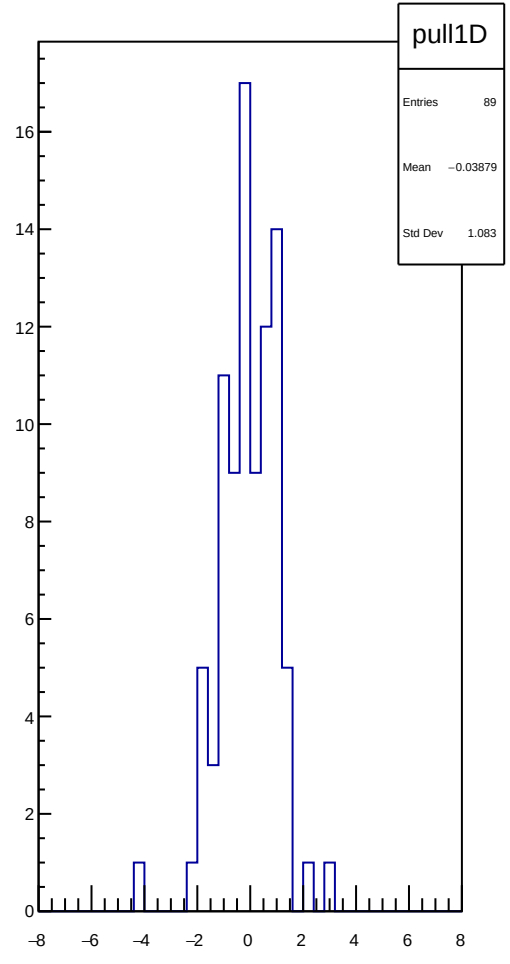

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 4.31e+04 / 88
p0 169.3 ± 0.1281
500
450
400
350
300
250
200
150
100

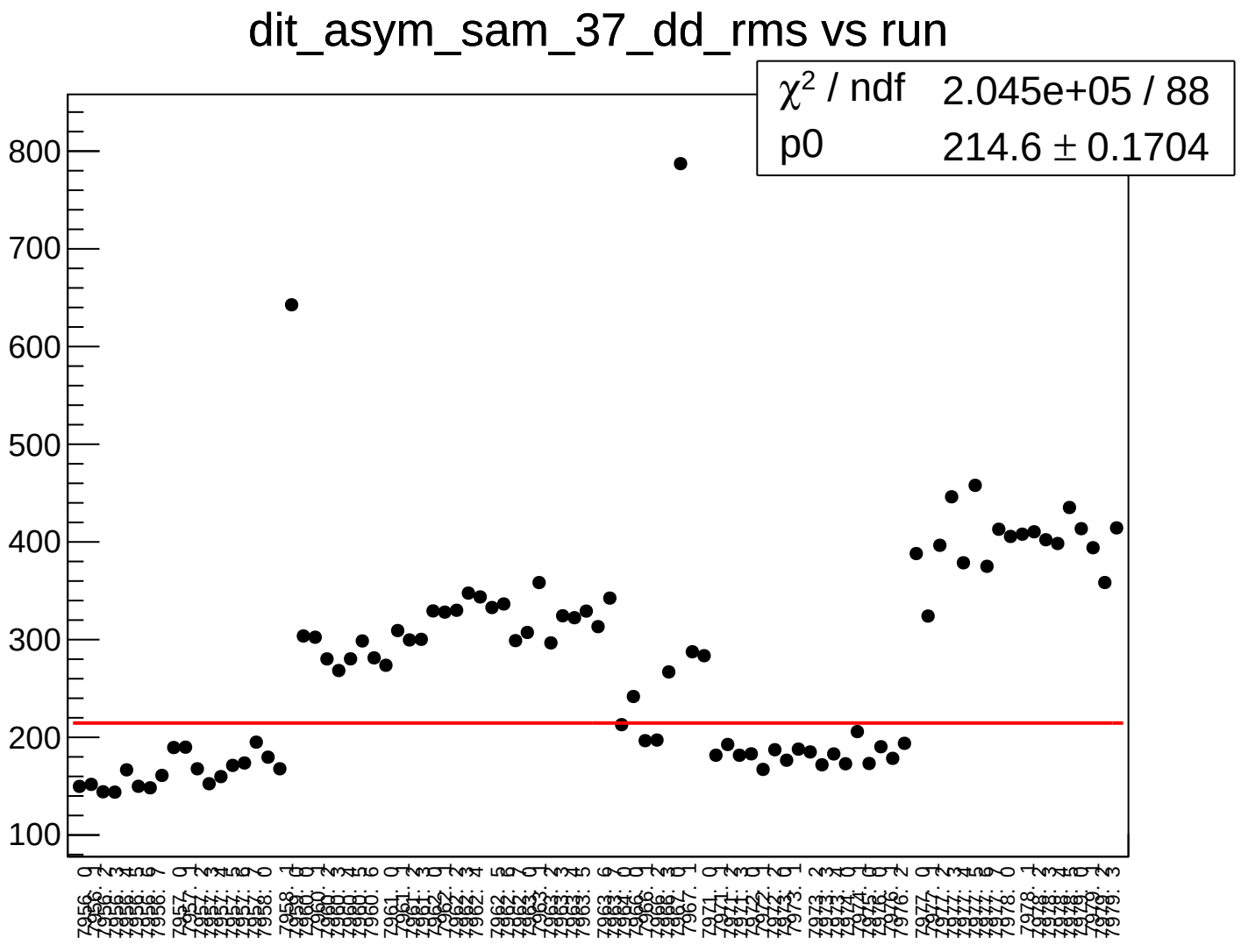

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.2 / 88
p0 486.9 ± 1319
pull
Entries 89
Mean 736.6
Std Dev 0

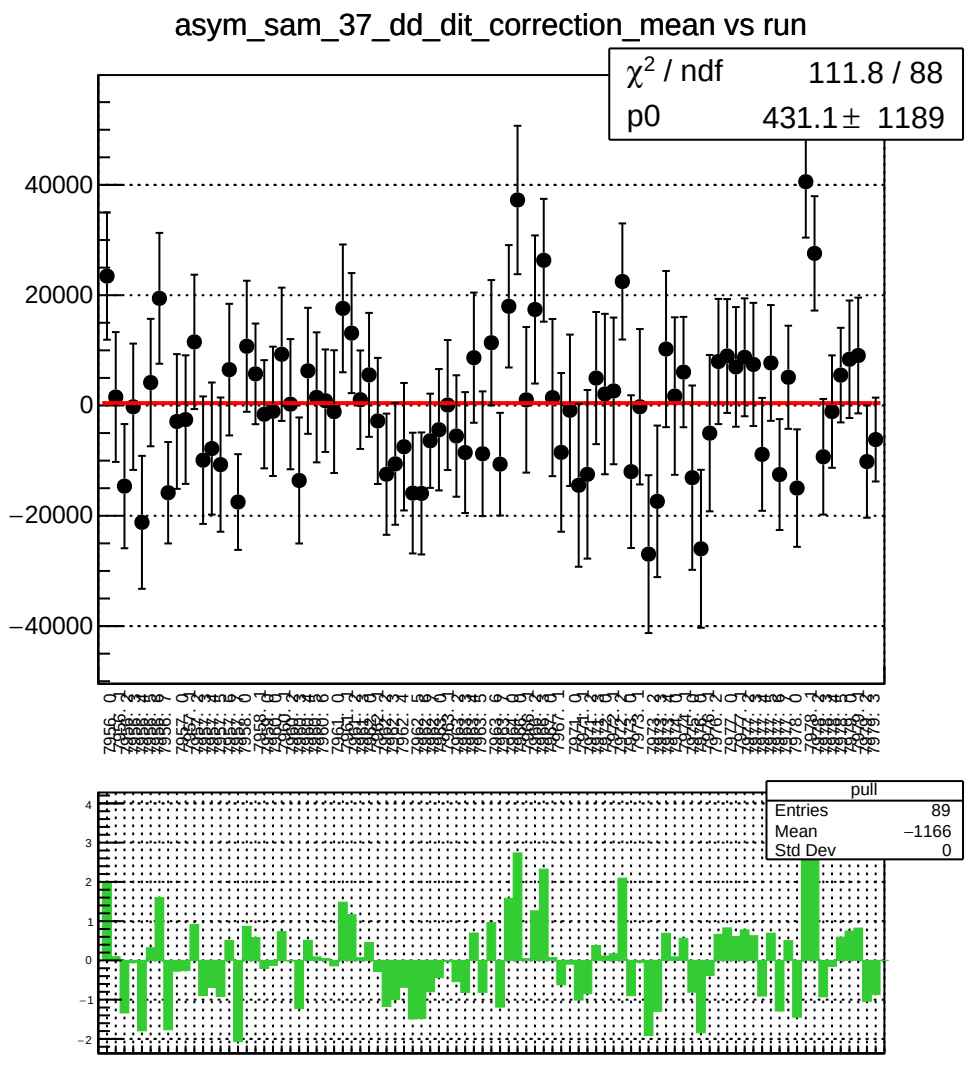

pull1D
Entries 89
Mean 0.004937
Std Dev 1.123

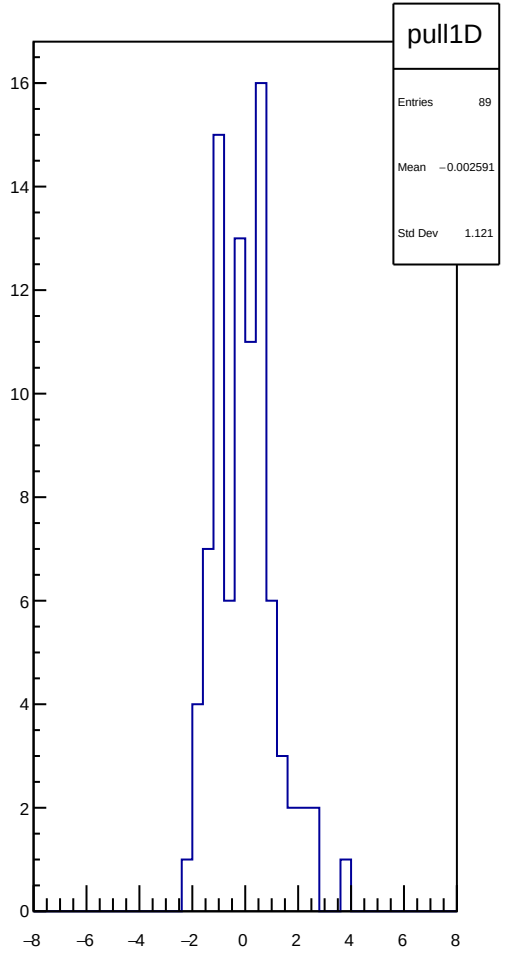

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.95e+04 / 88
p0 1224 ± 0.9327
2000
1800
1600
1400
1200
1000
800
600
400

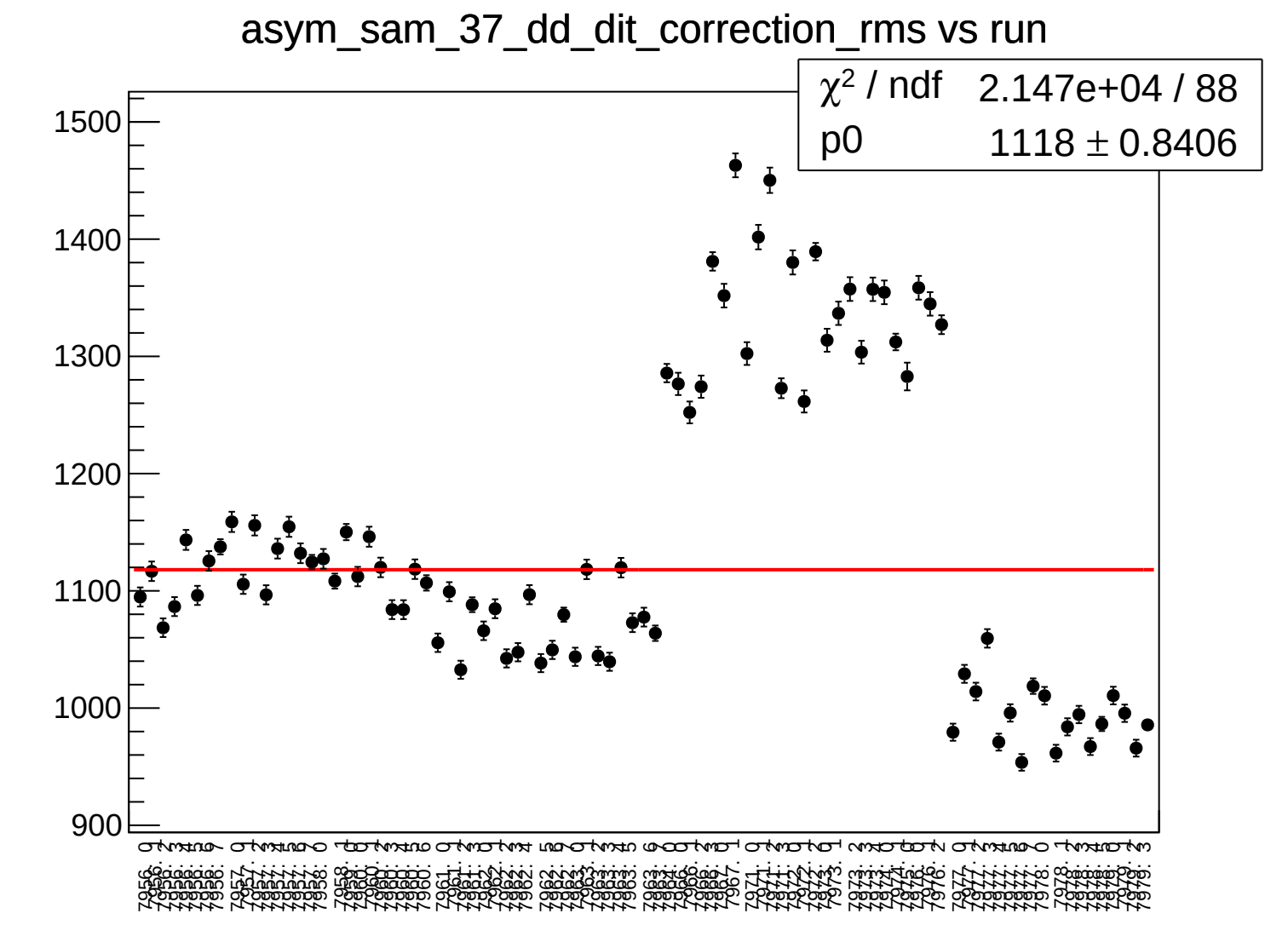

dit_asym_sam_37_dd_mean vs run
χ² / ndf 104.6 / 88
p0 139.4 ± 241
pull
Entries 89
Mean 81.52
Std Dev 36.79

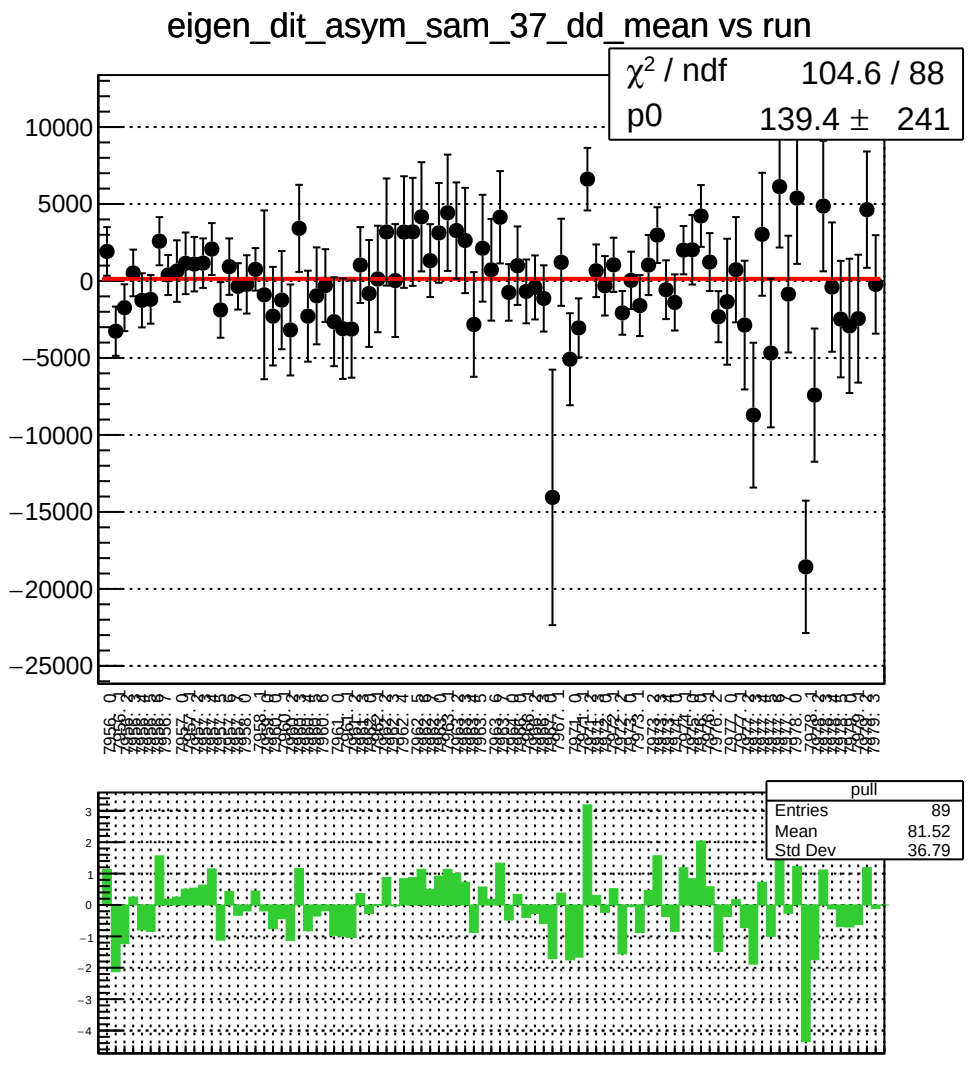

pull1D
Entries 89
Mean −0.03879
Std Dev 1.083

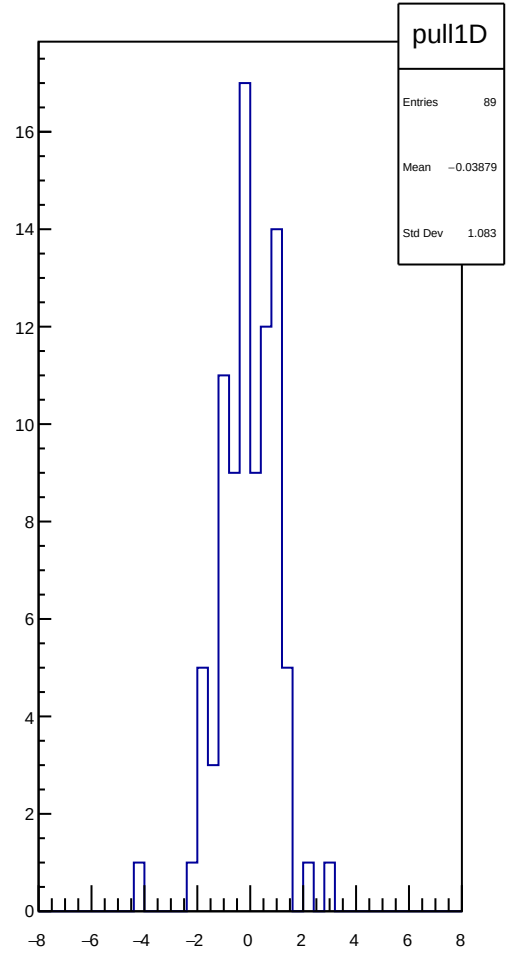

dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.045e+05 / 88
p0 214.6 ± 0.1704
800
700
600
500
400
300
200
100

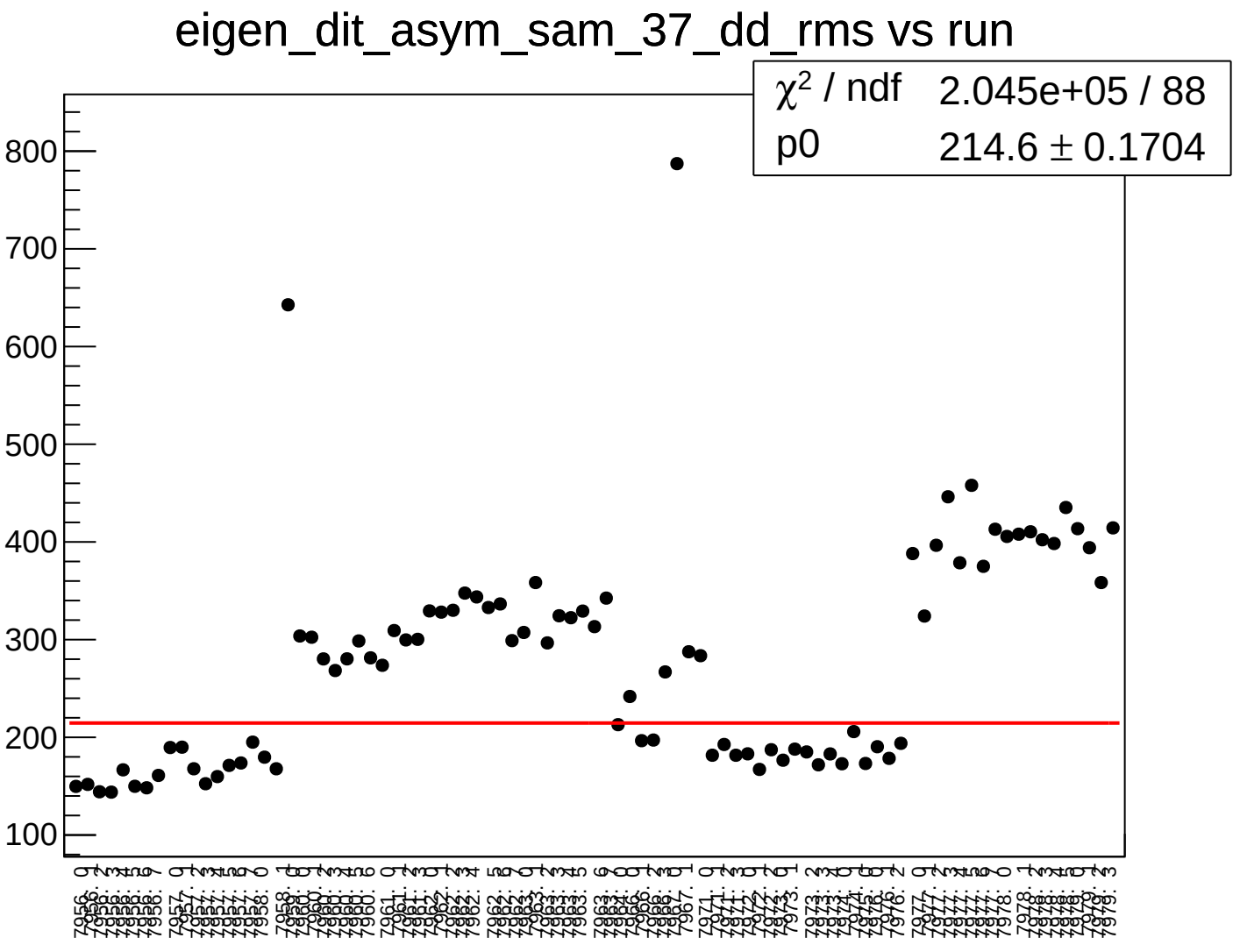

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 111.8 / 88
p0 431.1 ± 1189
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −1166
Std Dev 0
4
3
2
1
0
−1
−2

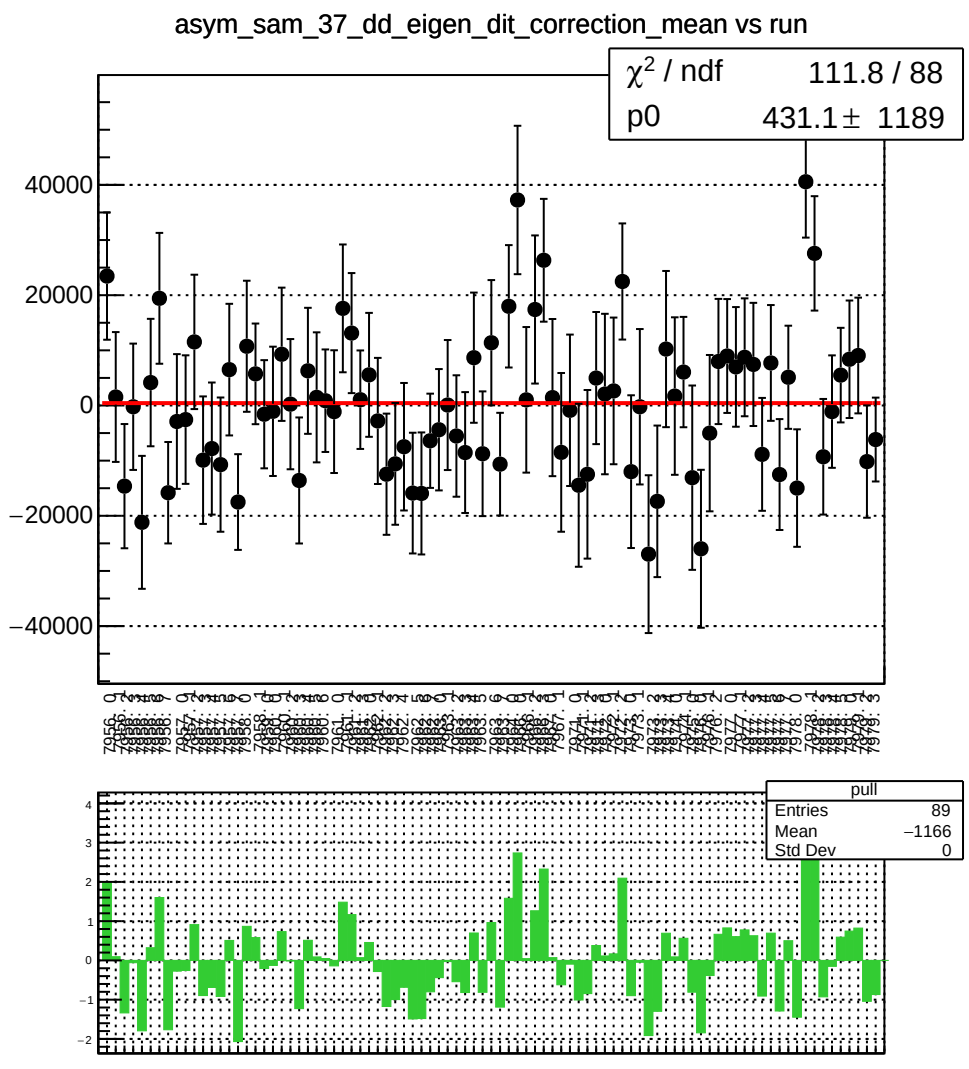

pull1D
Entries 89
Mean −0.002591
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

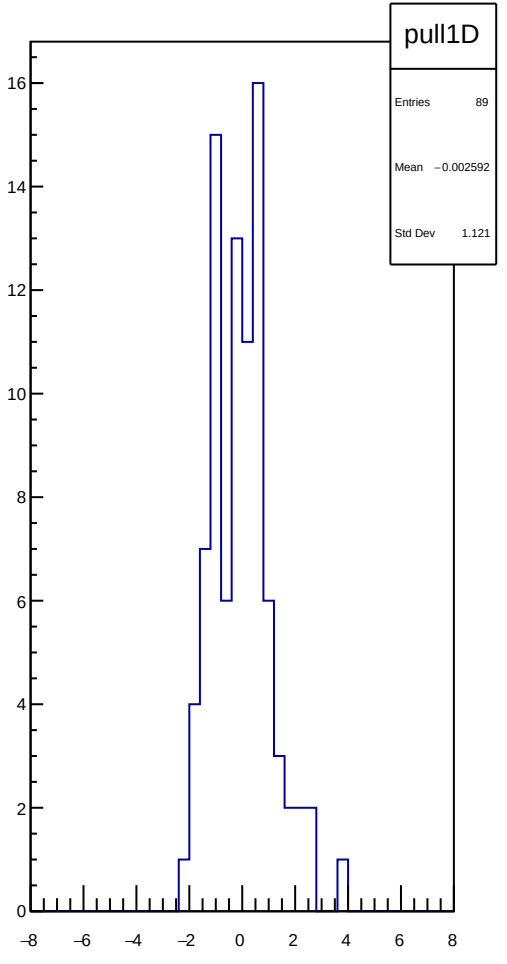

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2.147e+04 / 88
p0 1118 ± 0.8406
1500
1400
1300
1200
1100
1000
900

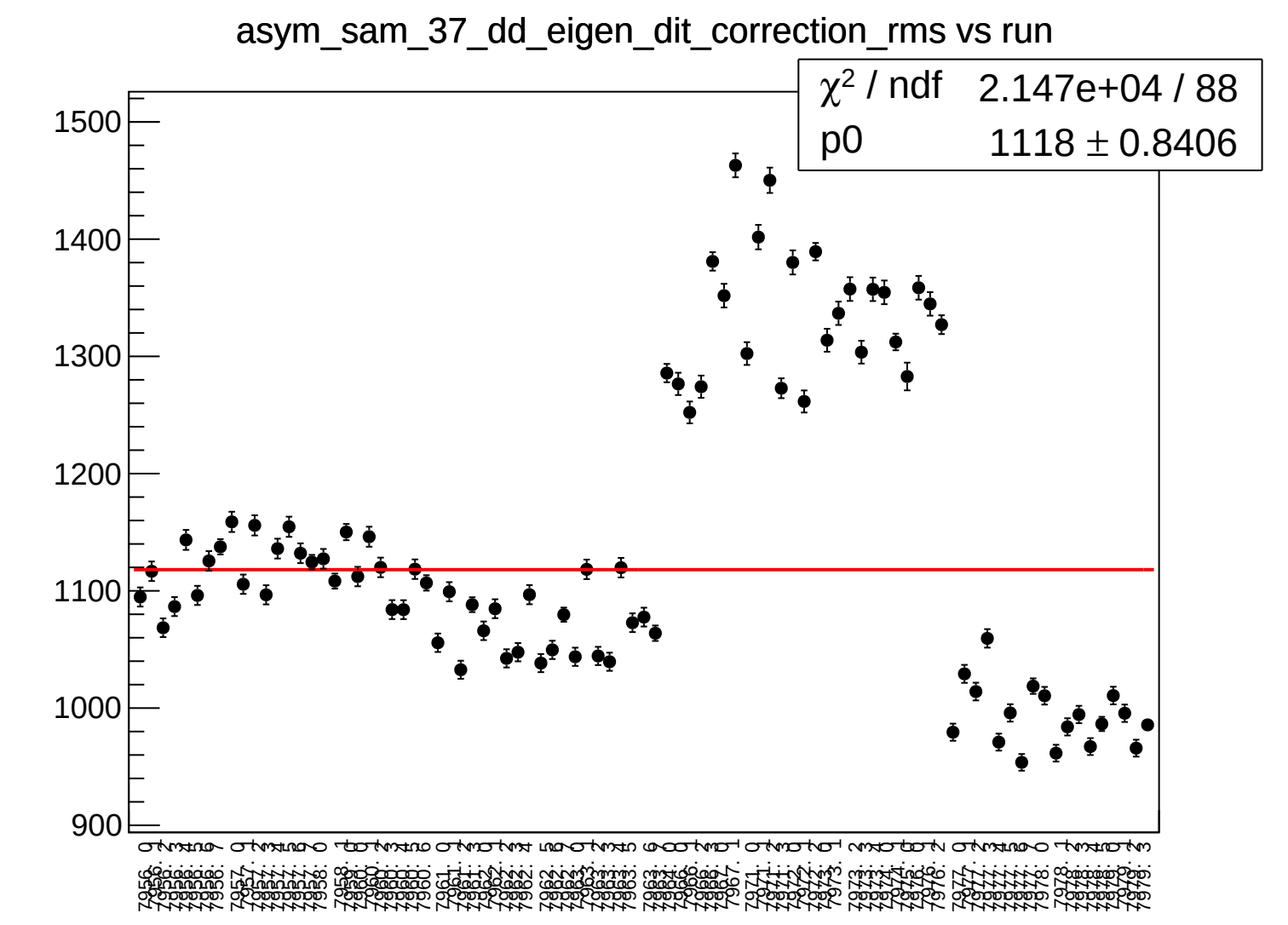

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 104.6 / 88
p0 139.4 ± 241
pull
Entries 89
Mean 81.52
Std Dev 36.79

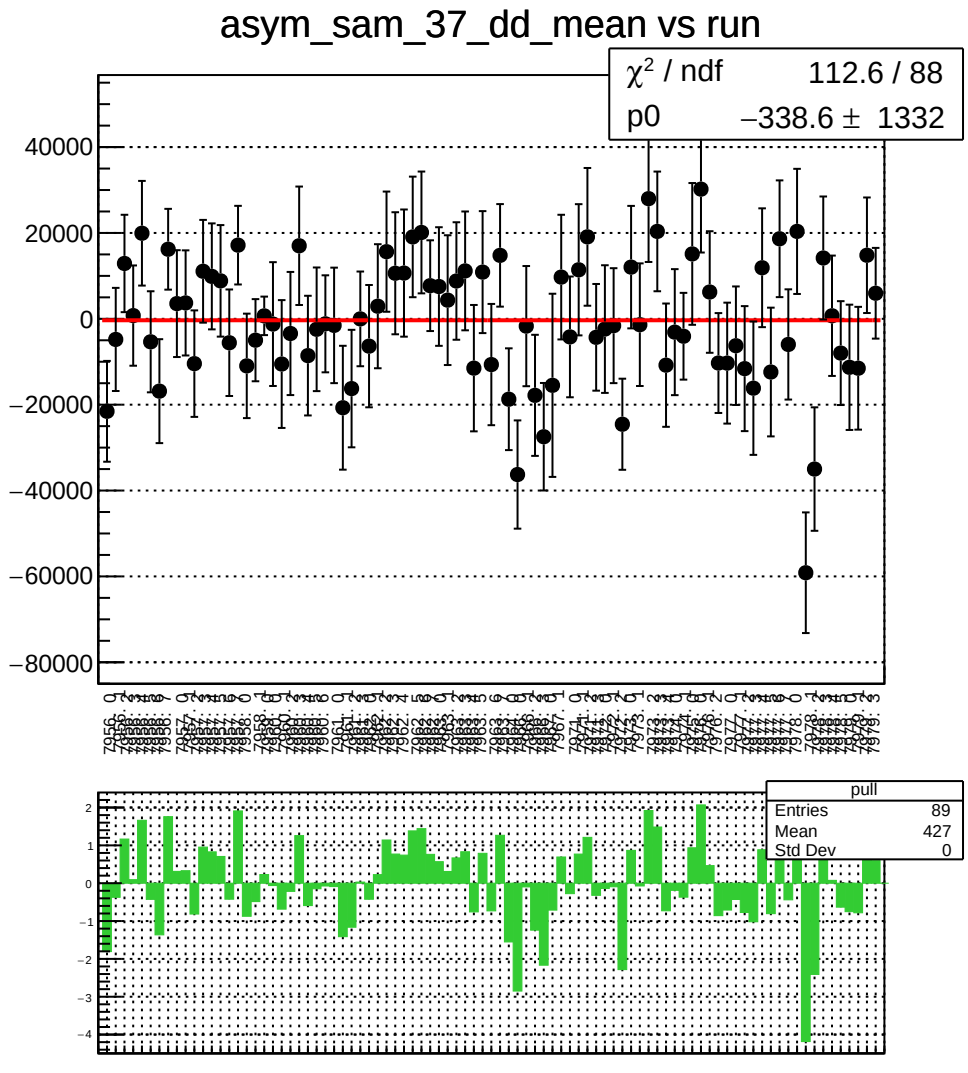

pull1D
Entries 89
Mean −0.03879
Std Dev 1.083

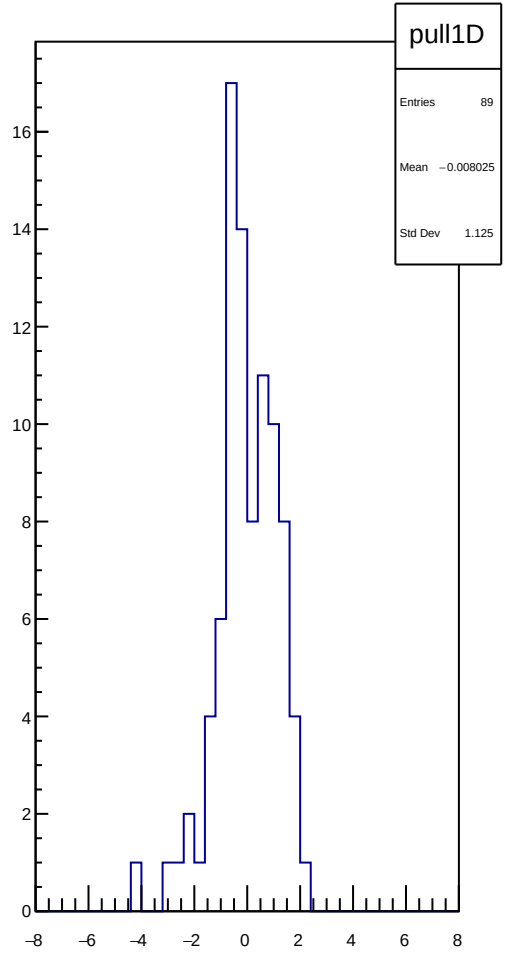

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.045e+05 / 88
p0 214.6 ± 0.1704
800
700
600
500
400
300
200
100

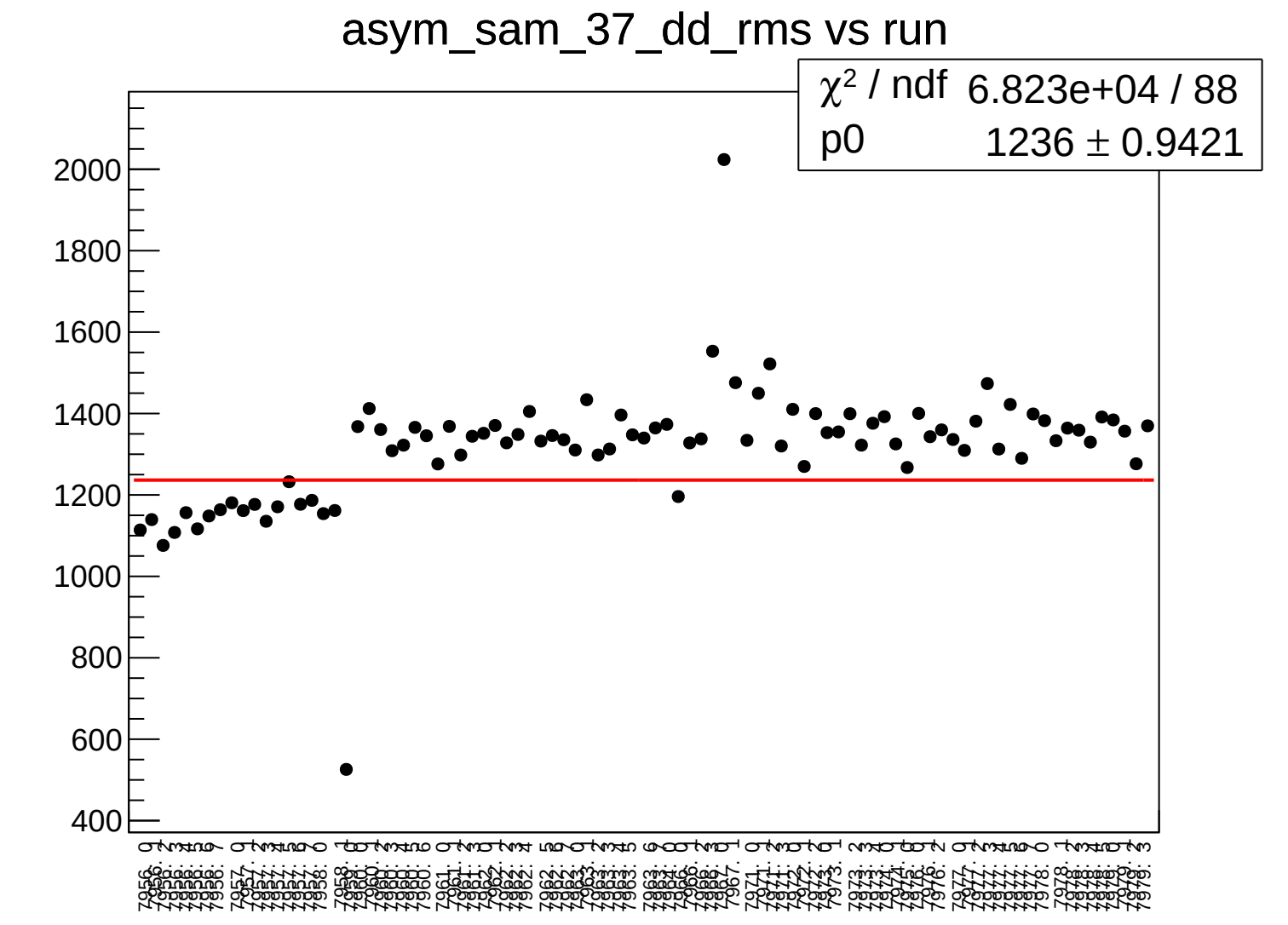

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 111.8 / 88
p0 431.1 ± 1189
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −1166
Std Dev 0
4
3
2
1
0
−1
−2

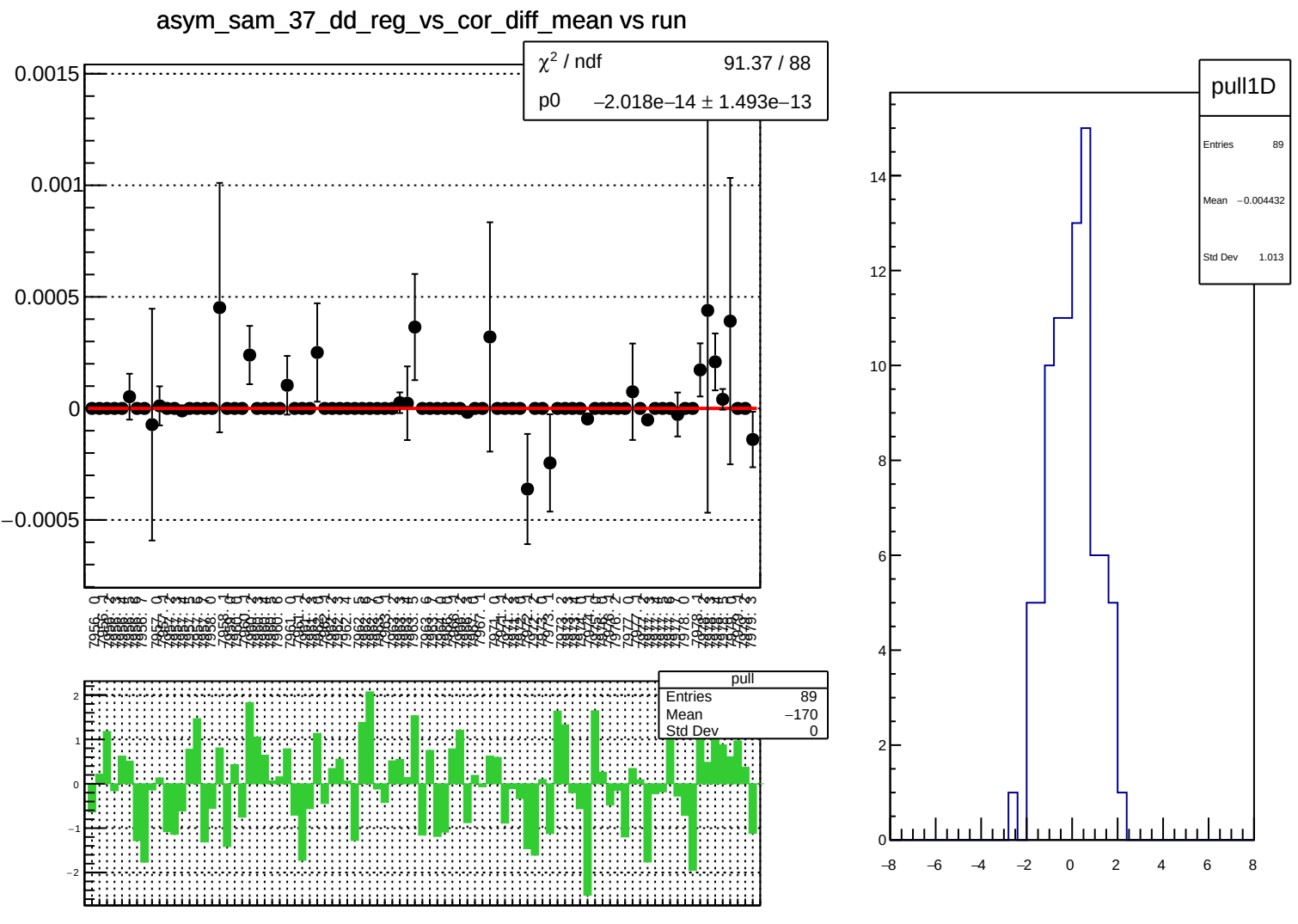

pull1D
Entries 89
Mean −0.002592
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

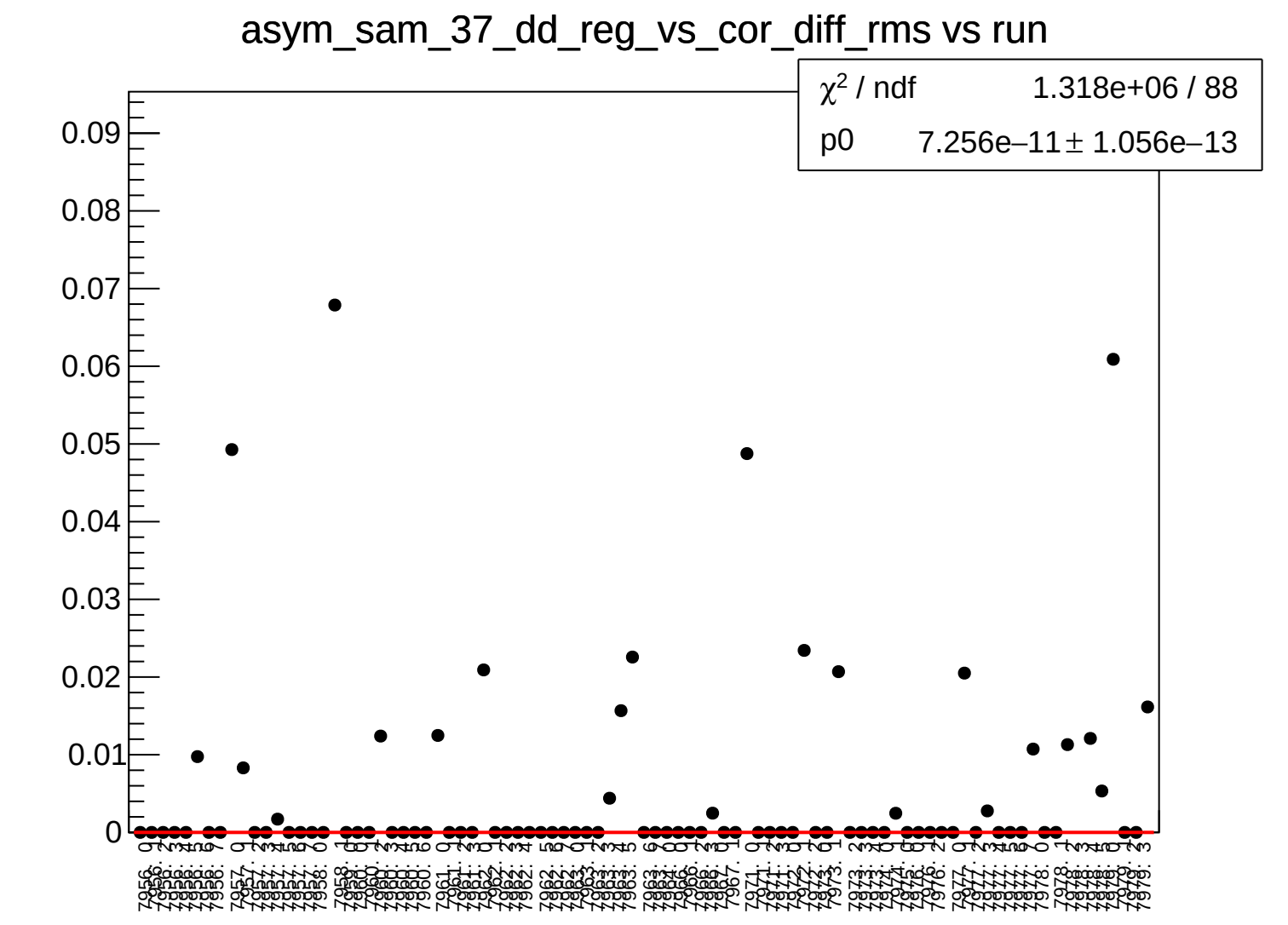

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.147e+04 / 88
p0 1118 ± 0.8406
1500
1400
1300
1200
1100
1000
900

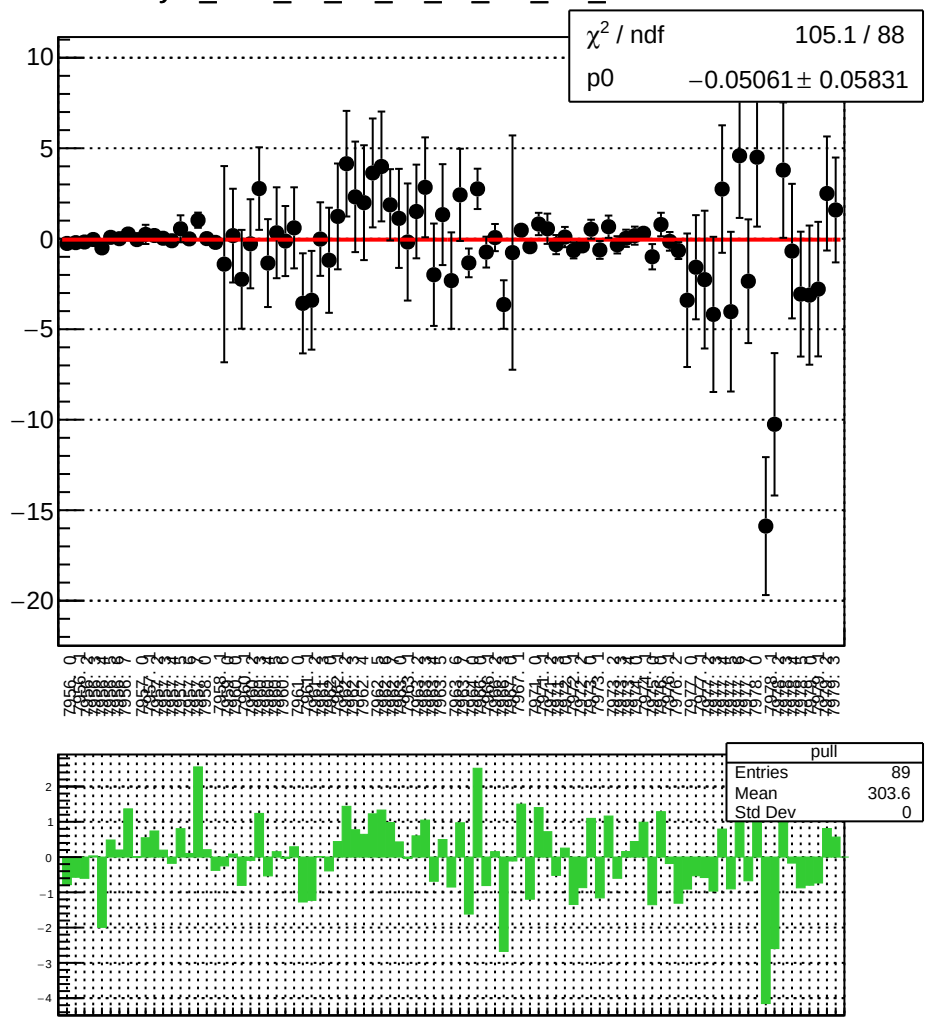

asym_sam_37_dd_mean vs run
χ² / ndf 112.6 / 88
p0 −338.6 ± 1332
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 427
Std Dev 0
2
1
0
−1
−2
−3
−4

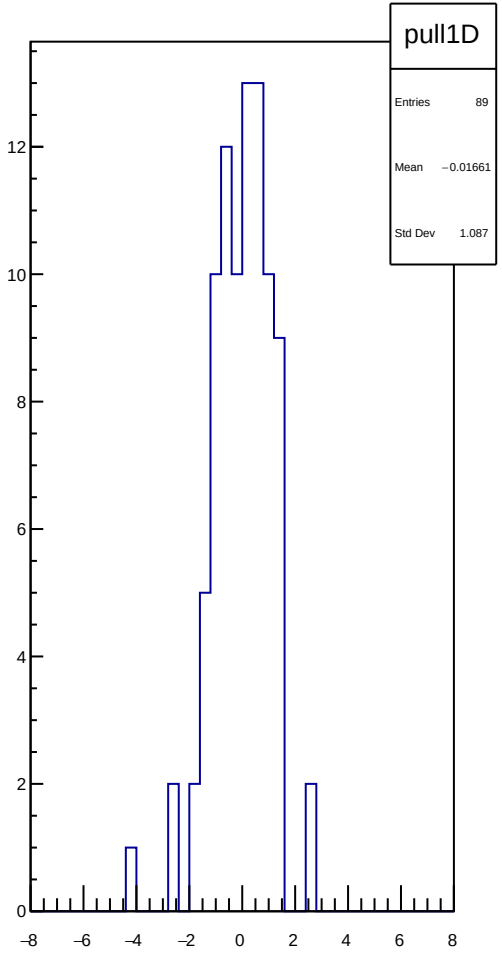

pull1D
Entries 89
Mean −0.008025
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

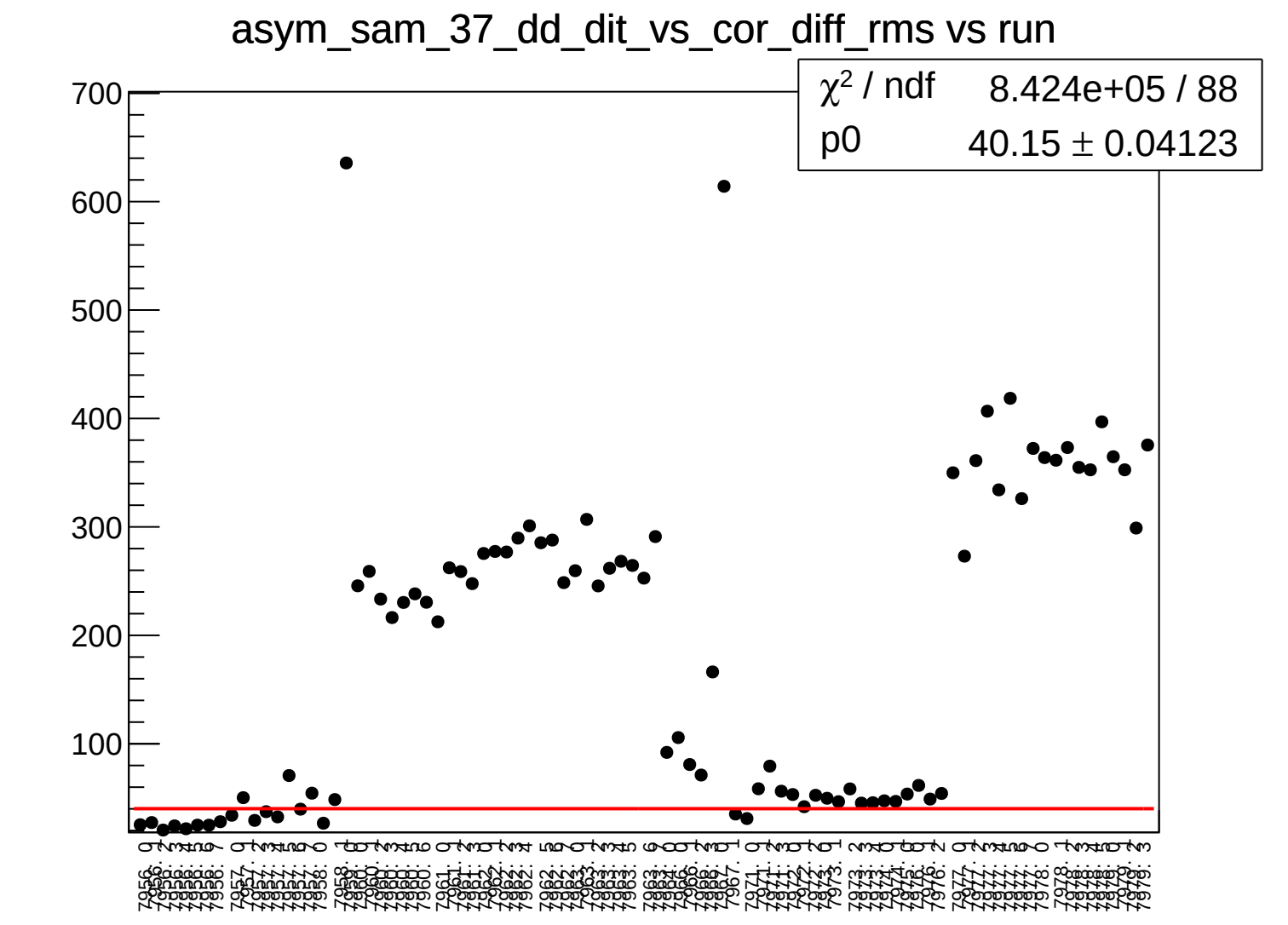

asym_sam_37_dd_rms vs run
χ² / ndf 6.823e+04 / 88
p0 1236 ± 0.9421
2000
1800
1600
1400
1200
1000
800
600
400

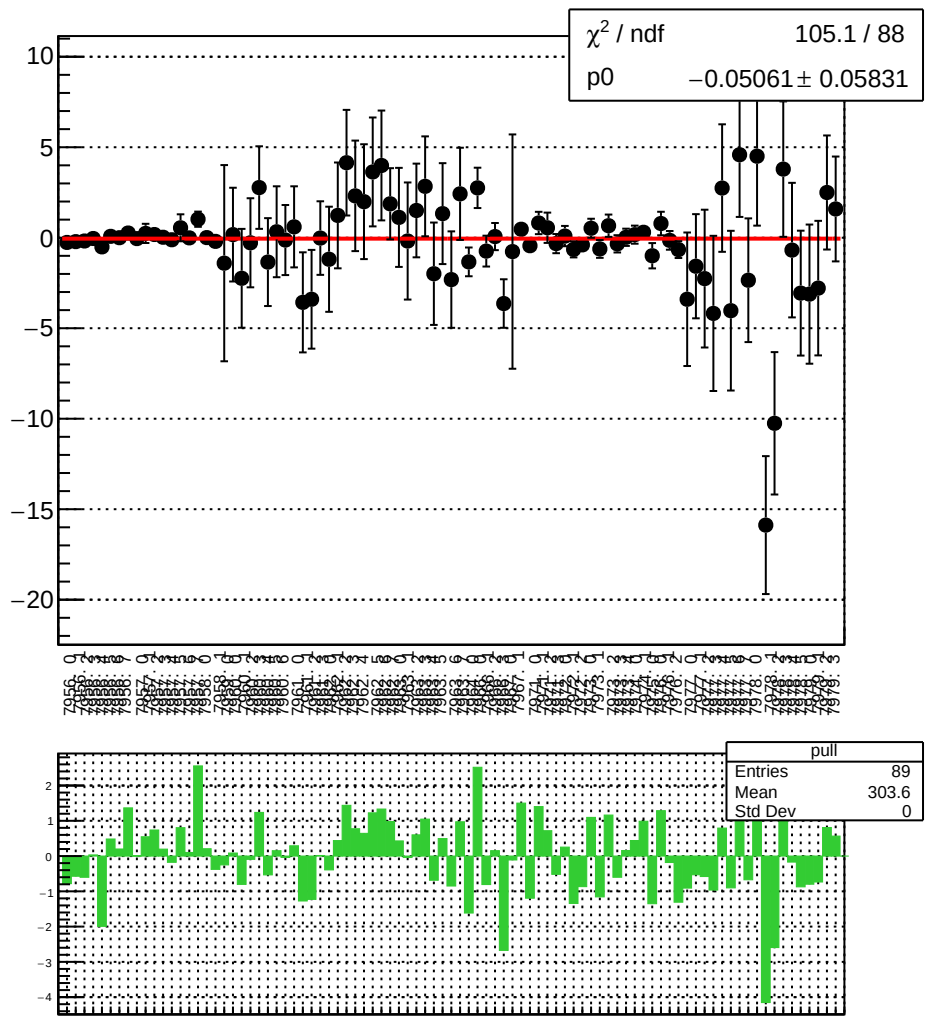

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.37 / 88
p0 −2.018e−14 ± 1.493e−13
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 89
Mean −170
Std Dev 0
pull1D
Entries 89
Mean −0.004432
Std Dev 1.013

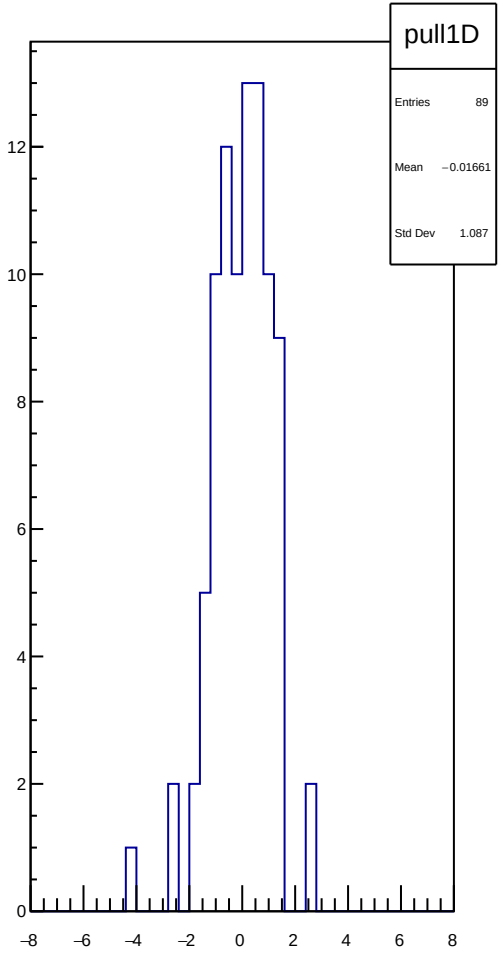

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.318e+06 / 88
p0 7.256e−11 ± 1.056e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

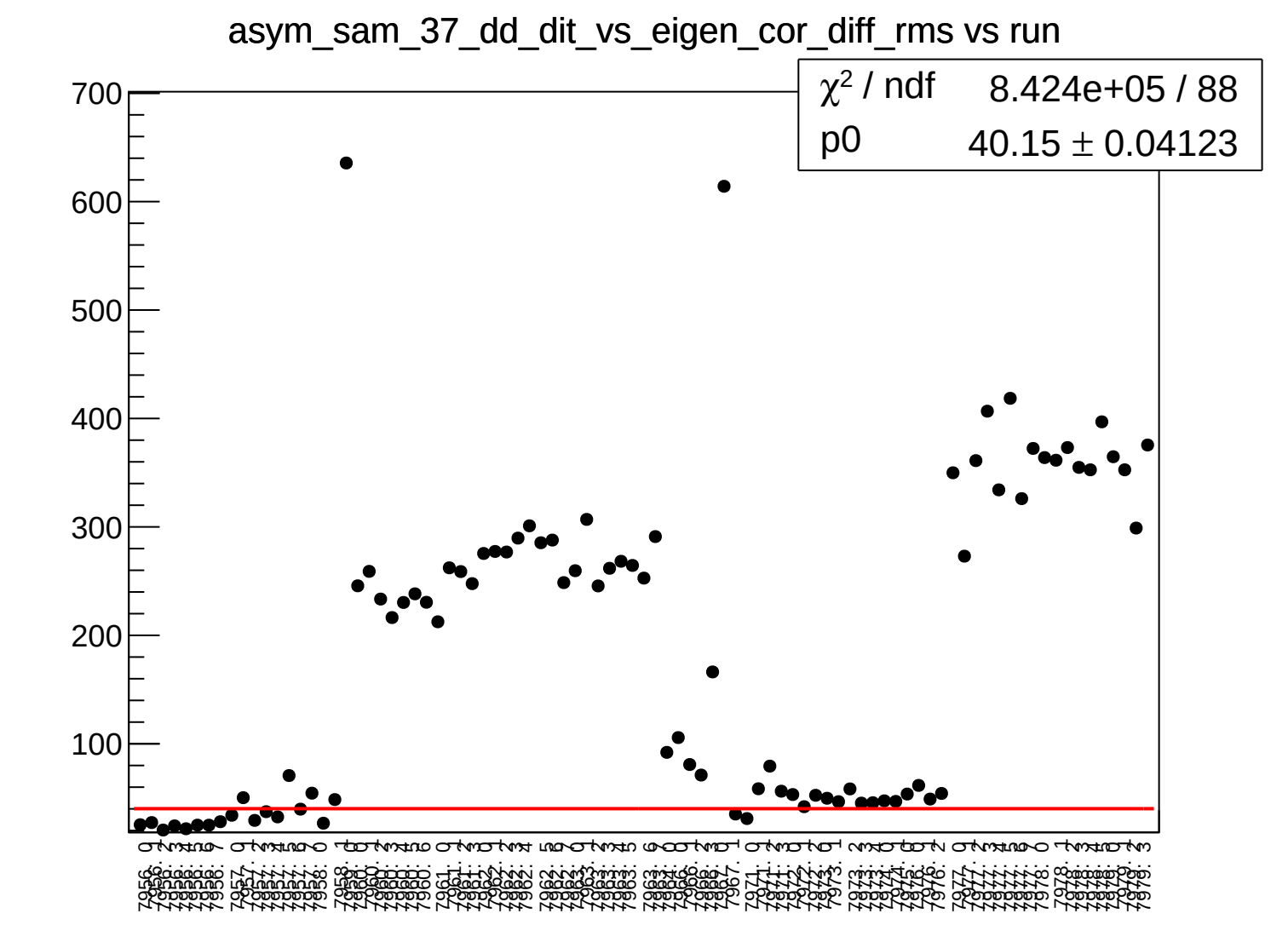

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 88
p0 −0.05061 ± 0.05831
pull
Entries 89
Mean 303.6
Std Dev 0

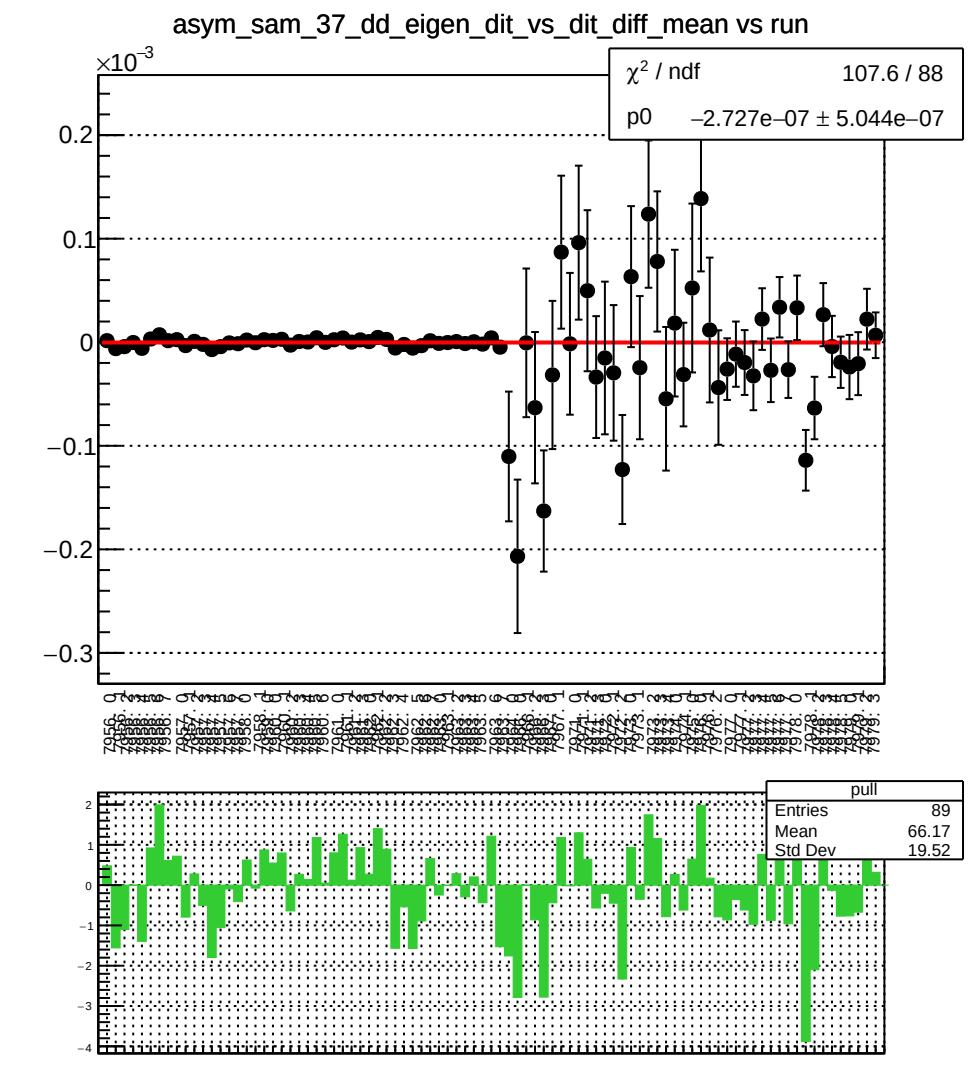

pull1D
Entries 89
Mean −0.01661
Std Dev 1.087

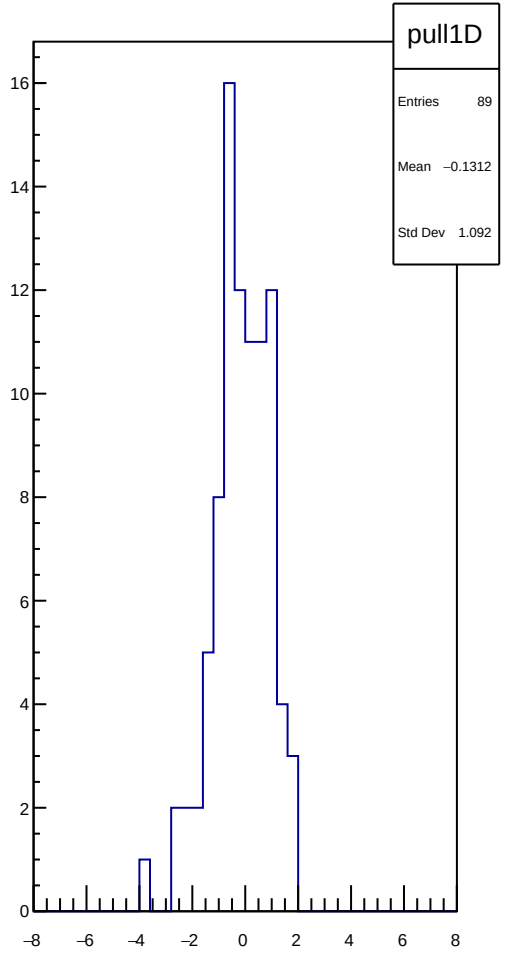

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.424e+05 / 88
p0 40.15 ± 0.04123
700
600
500
400
300
200
100

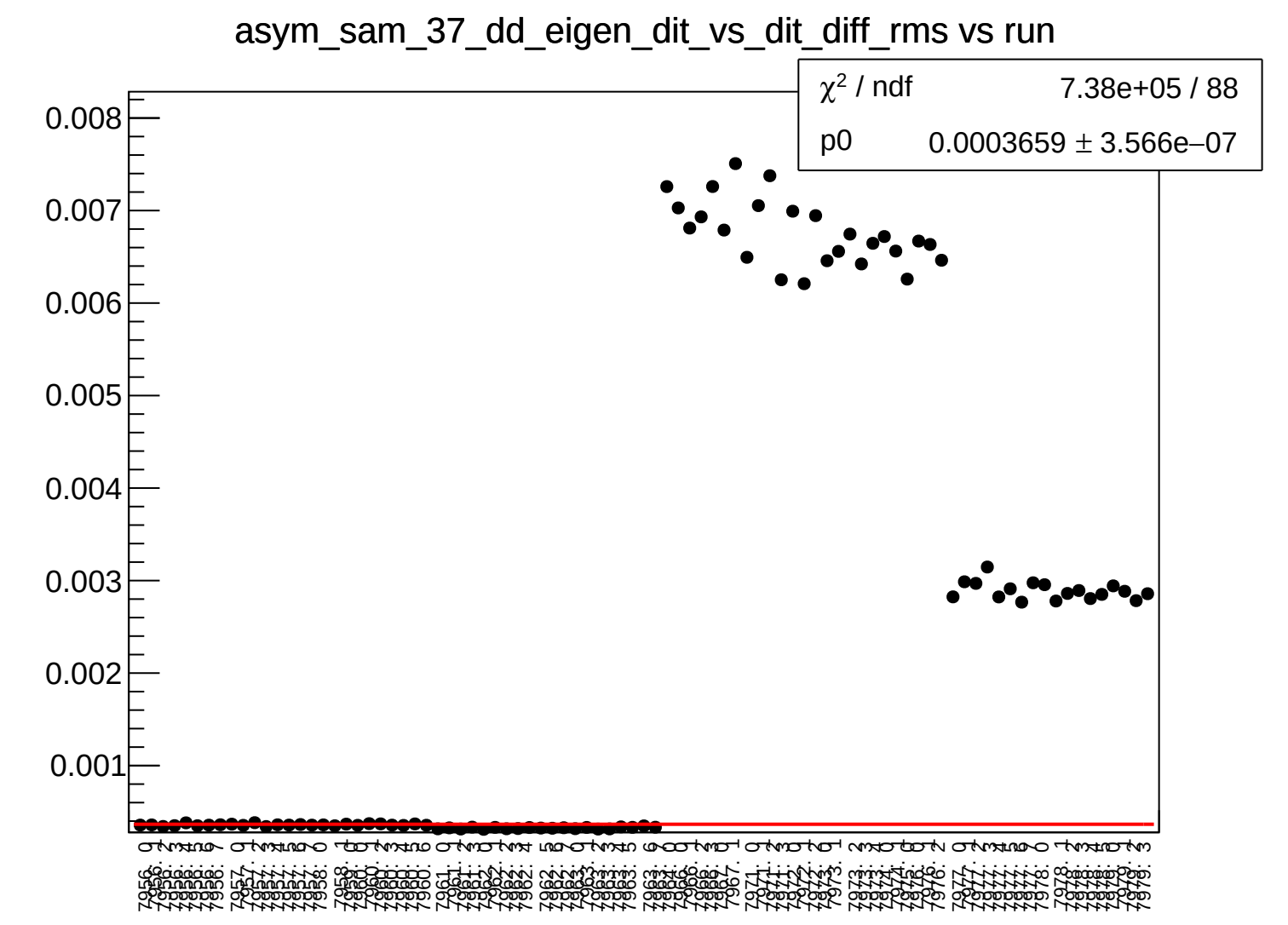

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 88
p0 −0.05061 ± 0.05831
pull
Entries 89
Mean 303.6
Std Dev 0

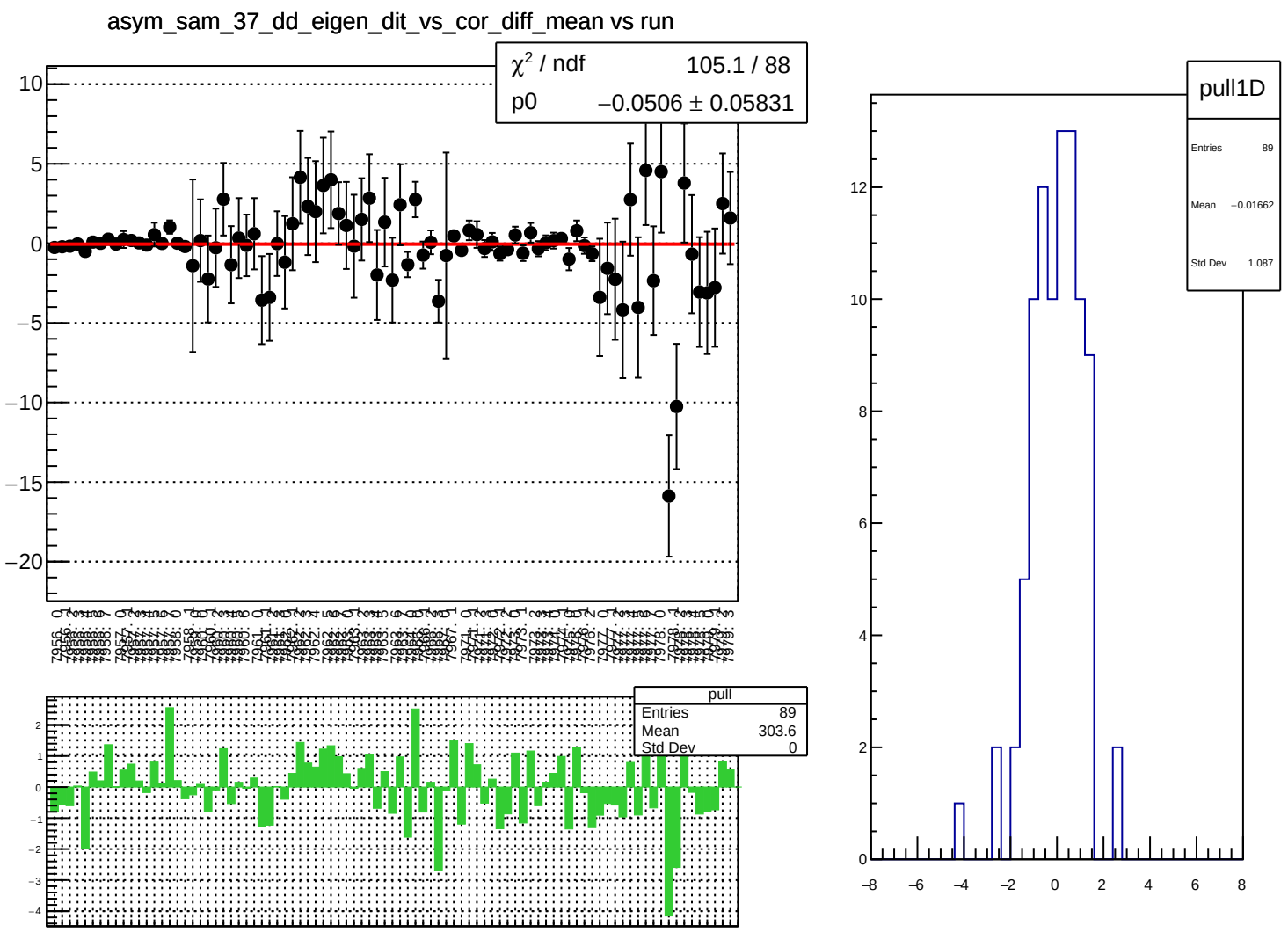

pull1D
Entries 89
Mean −0.01661
Std Dev 1.087

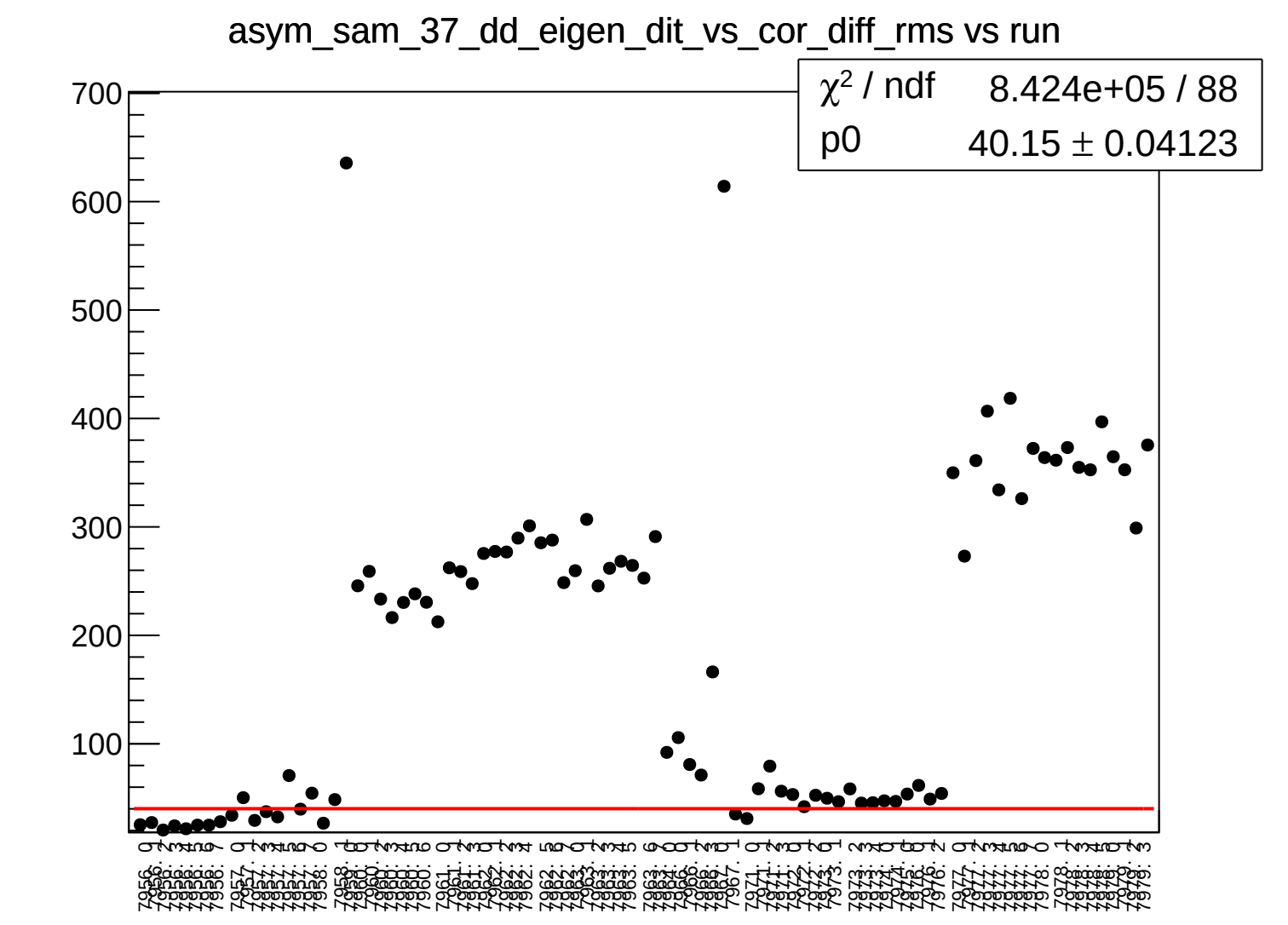

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.424e+05 / 88
p0 40.15 ± 0.04123
700
600
500
400
300
200
100

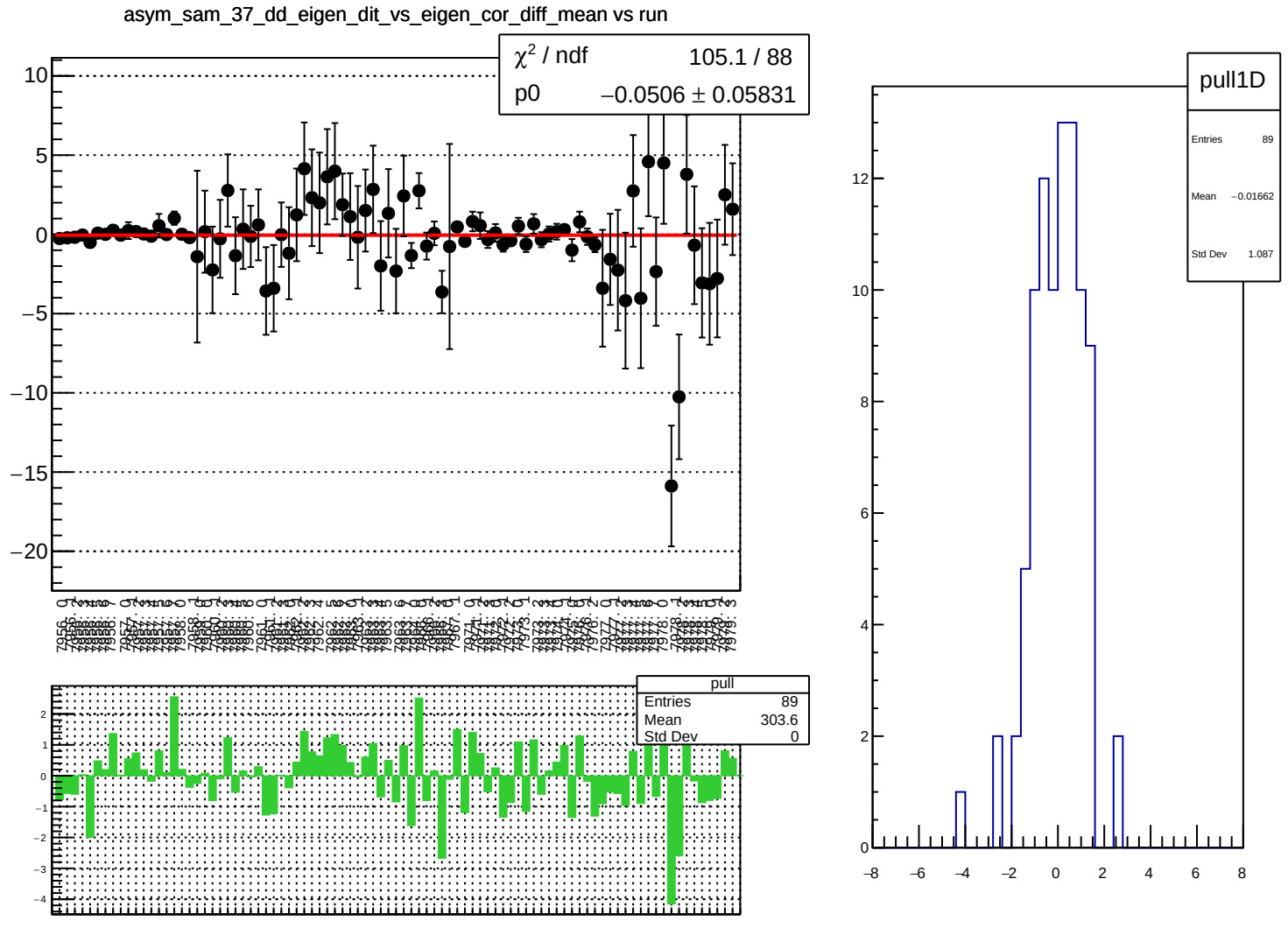

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.6 / 88
p0 −2.727e−07 ± 5.044e−07
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 89
Mean 66.17
Std Dev 19.52
2
1
0
−1
−2
−3
−4

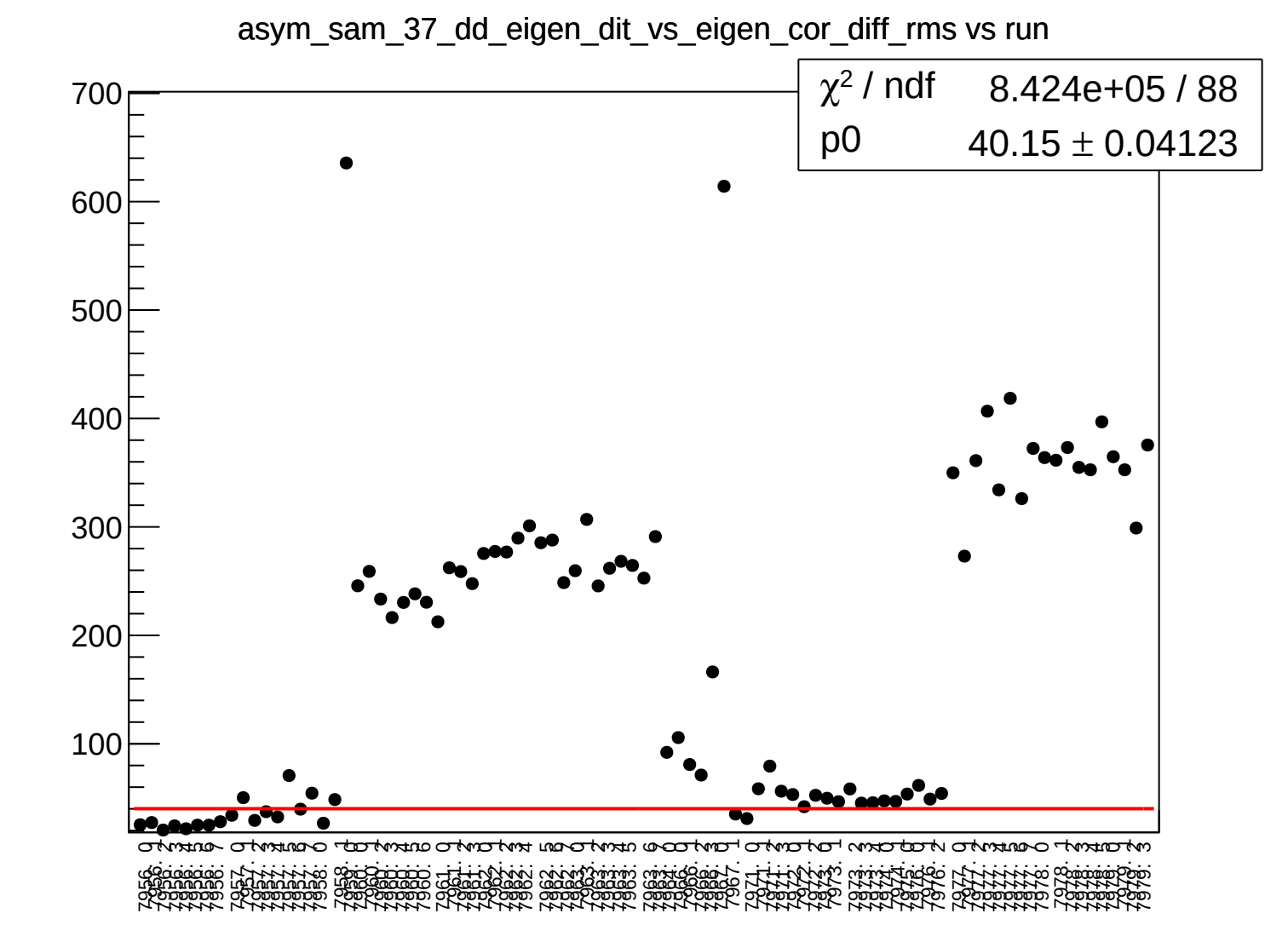

pull1D
Entries 89
Mean −0.1312
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

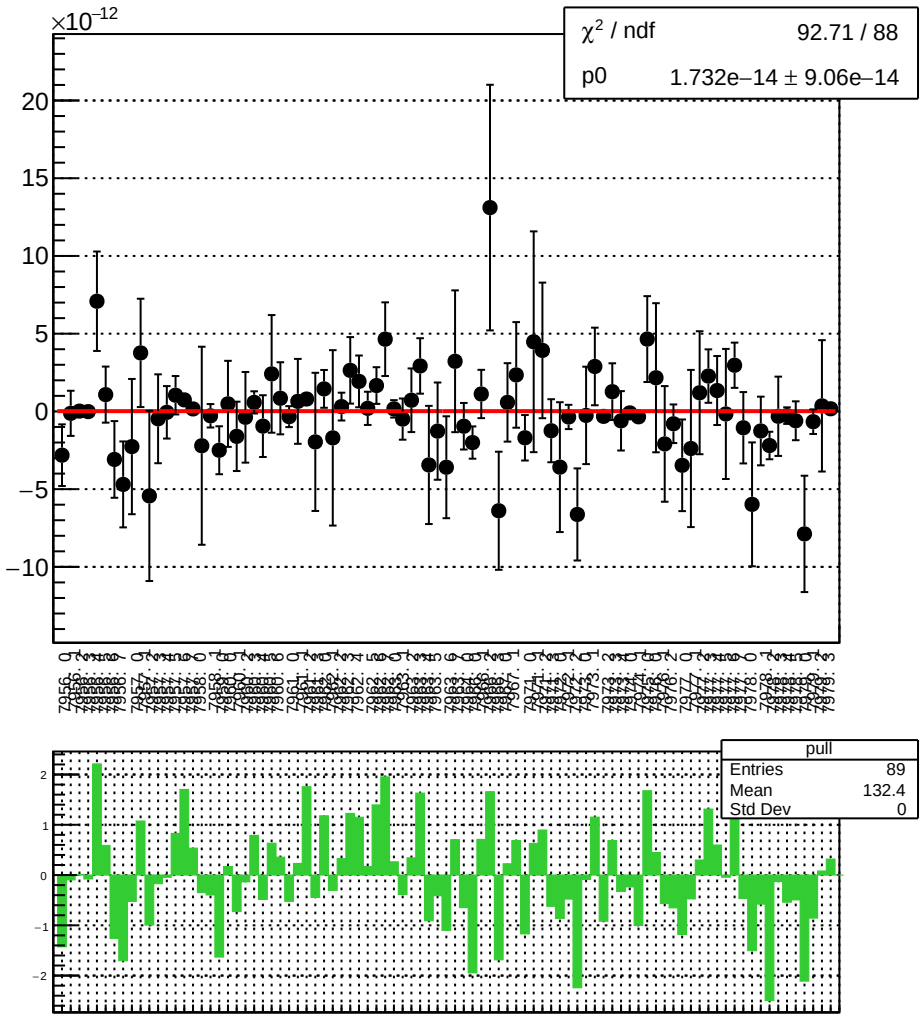

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.38e+05 / 88
p0 0.0003659 ± 3.566e−07
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

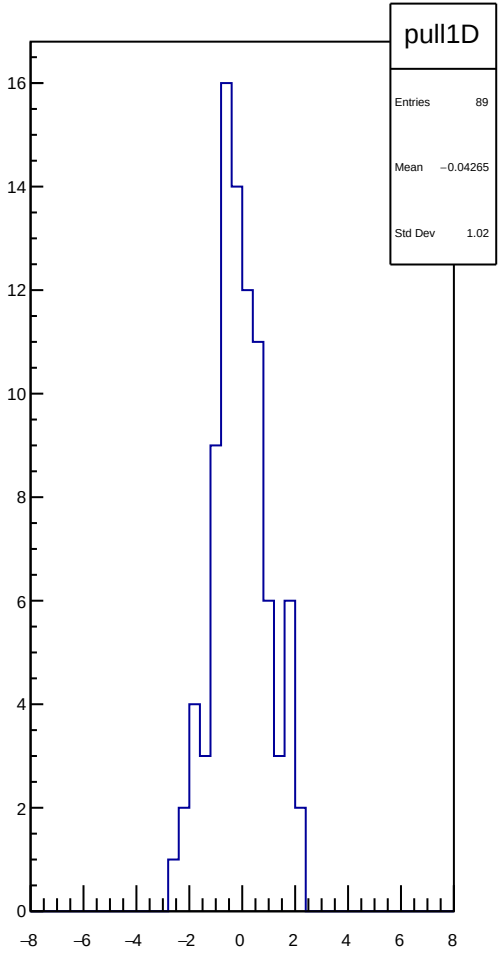

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 88
p0 −0.0506 ± 0.05831
pull
Entries 89
Mean 303.6
Std Dev 0
pull1D
Entries 89
Mean −0.01662
Std Dev 1.087

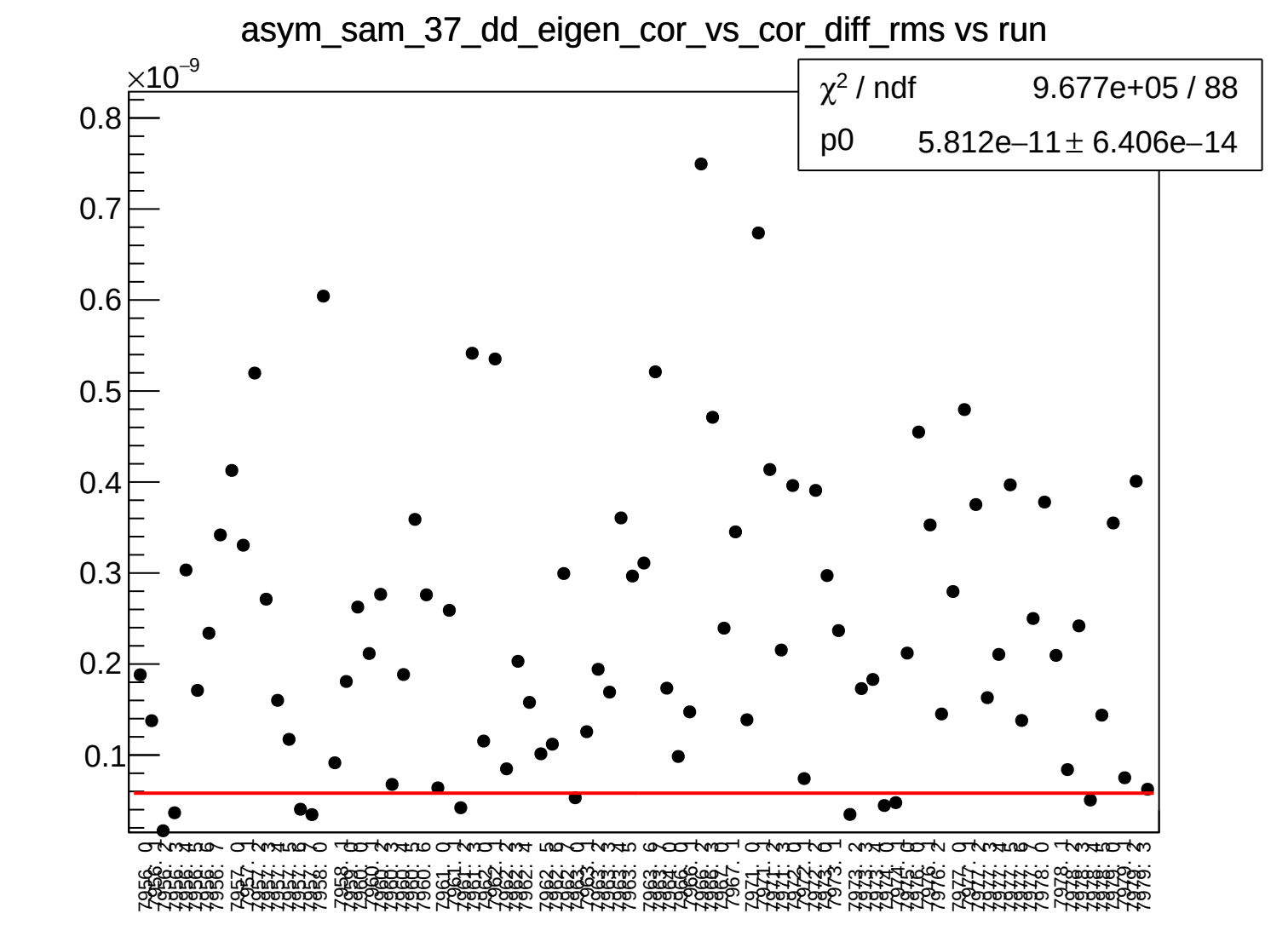

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.424e+05 / 88
p0 40.15 ± 0.04123
700
600
500
400
300
200
100

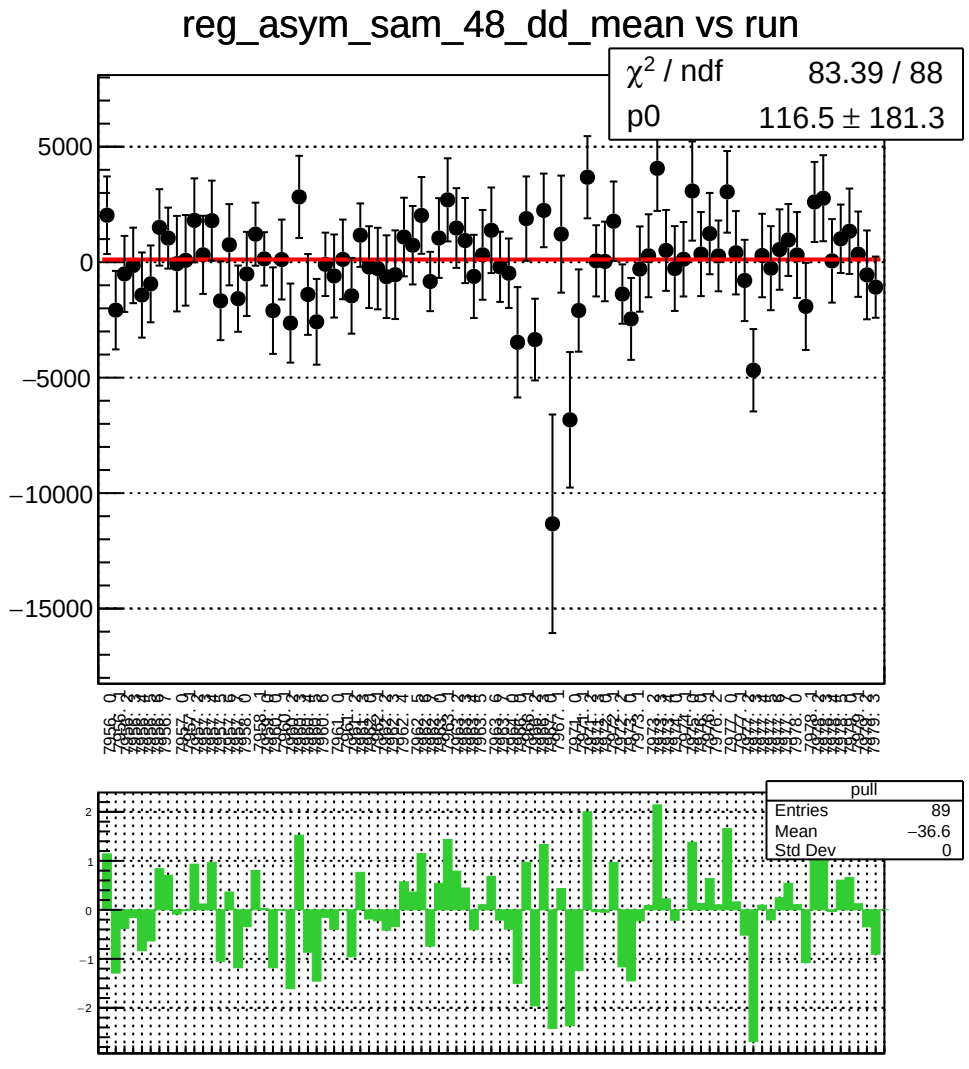

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 88
p0 −0.0506 ± 0.05831
pull
Entries 89
Mean 303.6
Std Dev 0
pull1D
Entries 89
Mean −0.01662
Std Dev 1.087

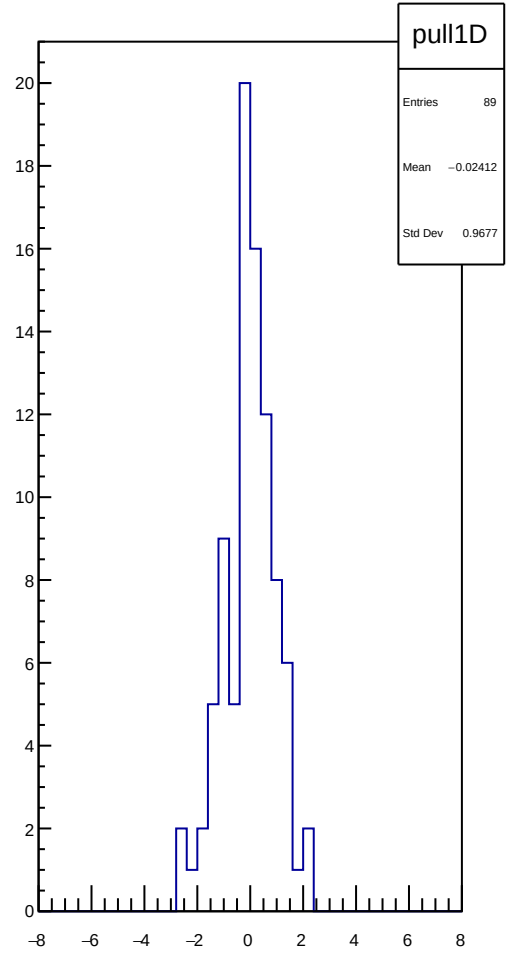

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.424e+05 / 88
p0 40.15 ± 0.04123
700
600
500
400
300
200
100

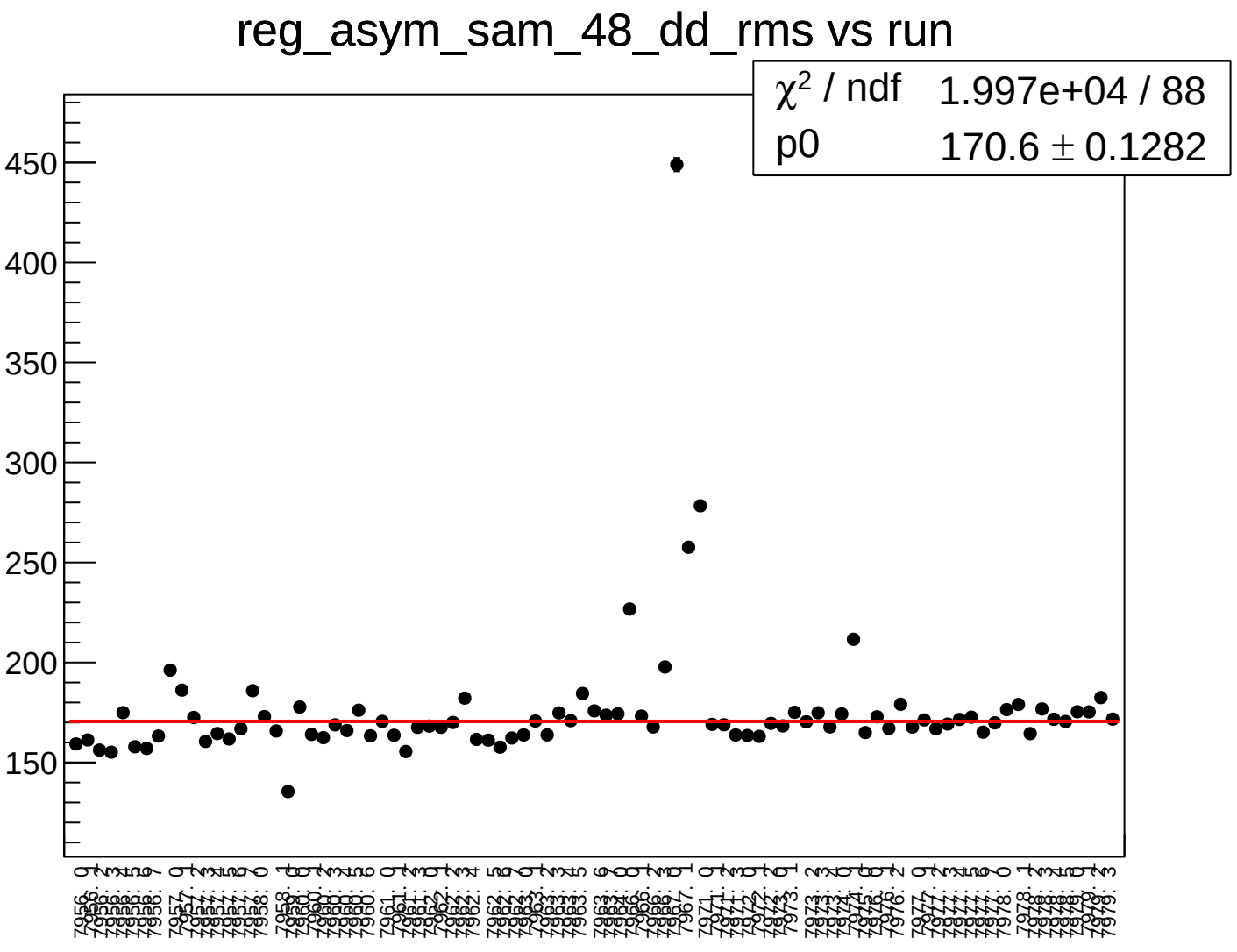

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.71 / 88
p0 1.732e−14 ± 9.06e−14
pull
Entries 89
Mean 132.4
Std Dev 0

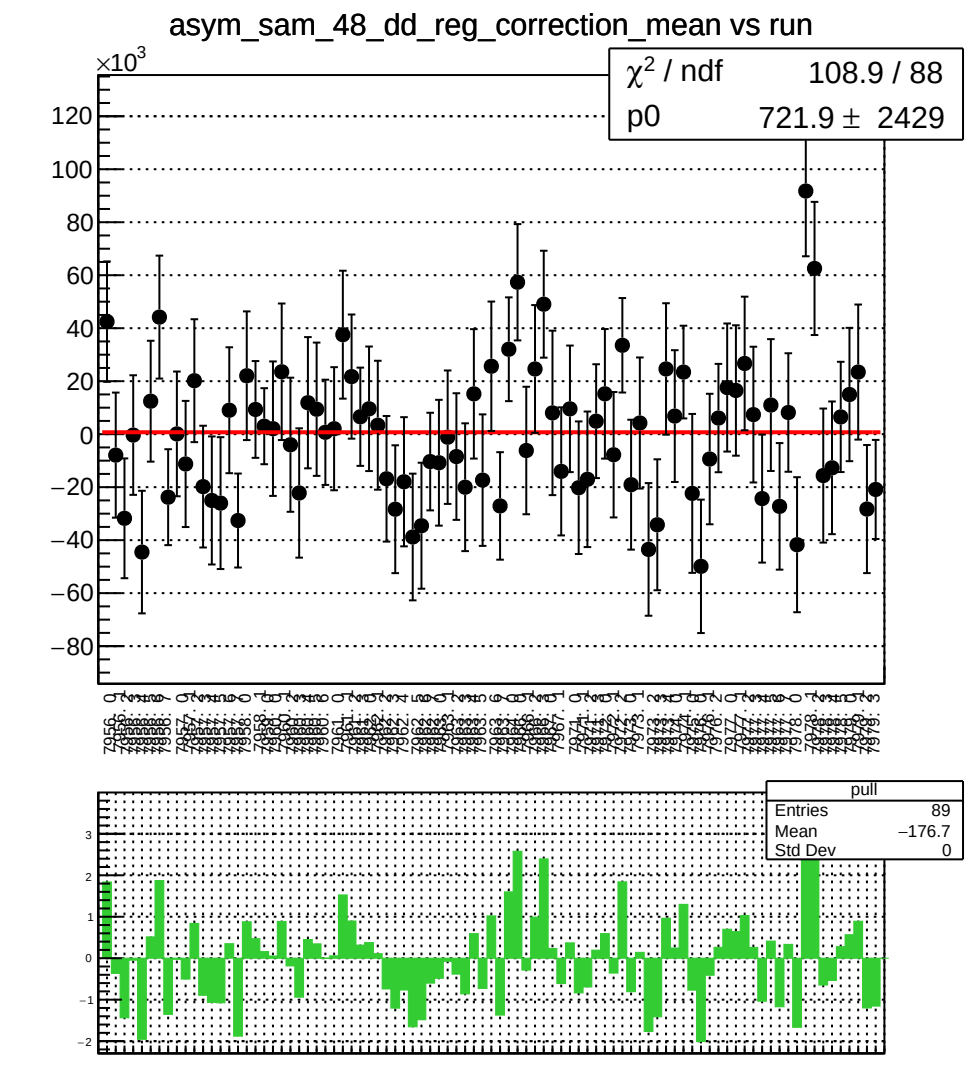

pull1D
Entries 89
Mean −0.04265
Std Dev 1.02

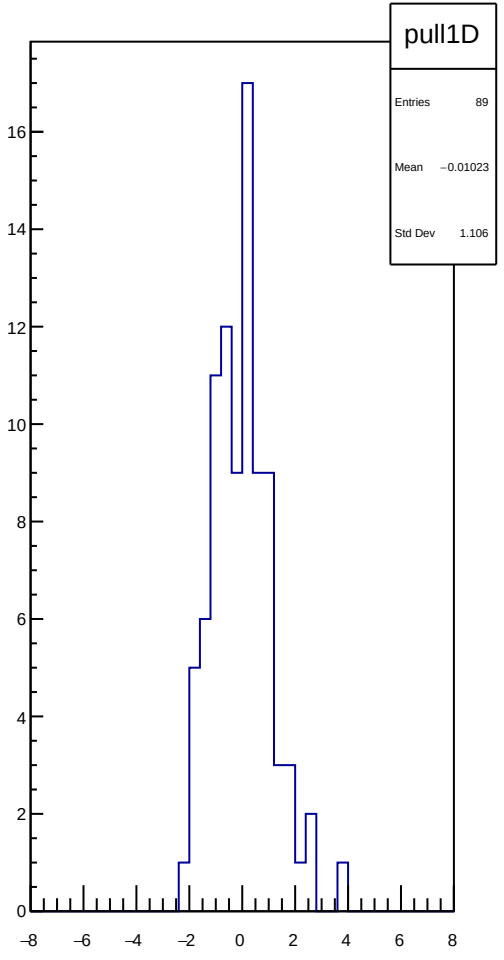

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.677e+05 / 88
p0 5.812e−11 ± 6.406e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

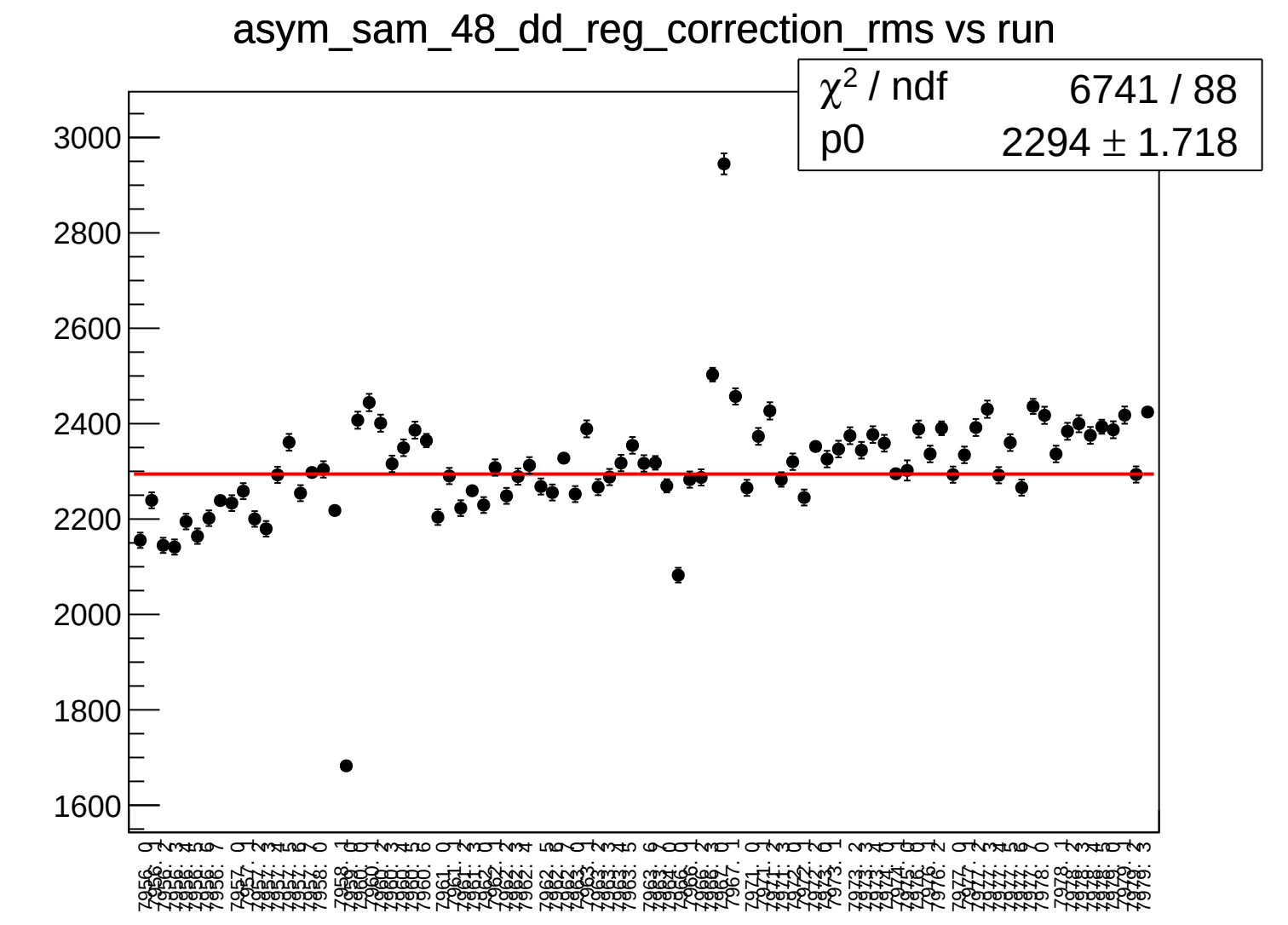

reg_asym_sam_48_dd_mean vs run
χ² / ndf 83.39 / 88
p0 116.5 ± 181.3
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −36.6
Std Dev 0
2
1
0
−1
−2

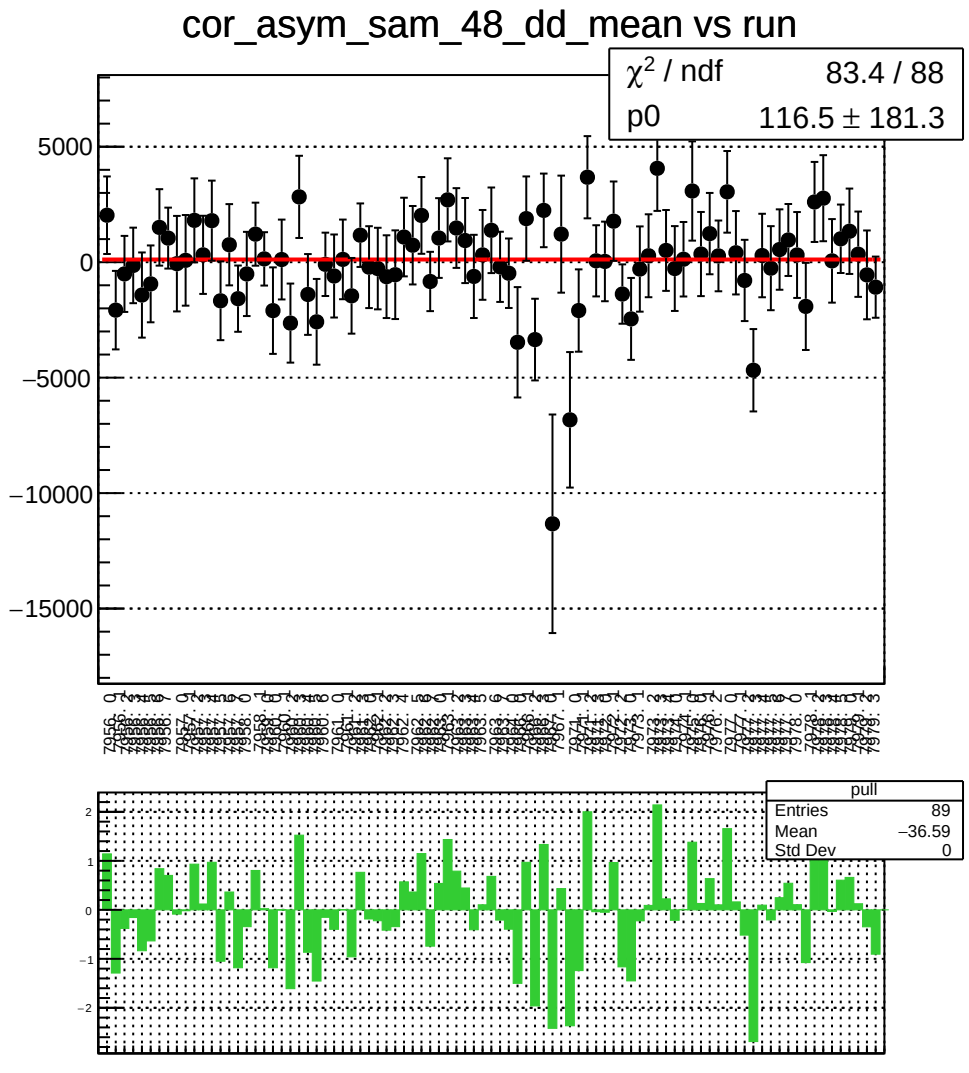

pull1D
Entries 89
Mean −0.02412
Std Dev 0.9677
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

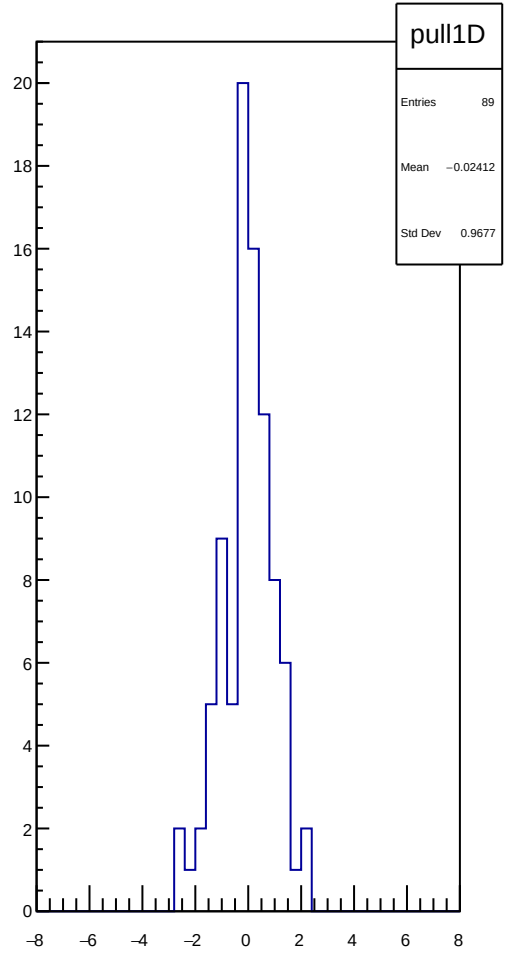

reg_asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 1.997e+04 / 88
p0 170.6 ± 0.1282
450
400
350
300
250
200
150

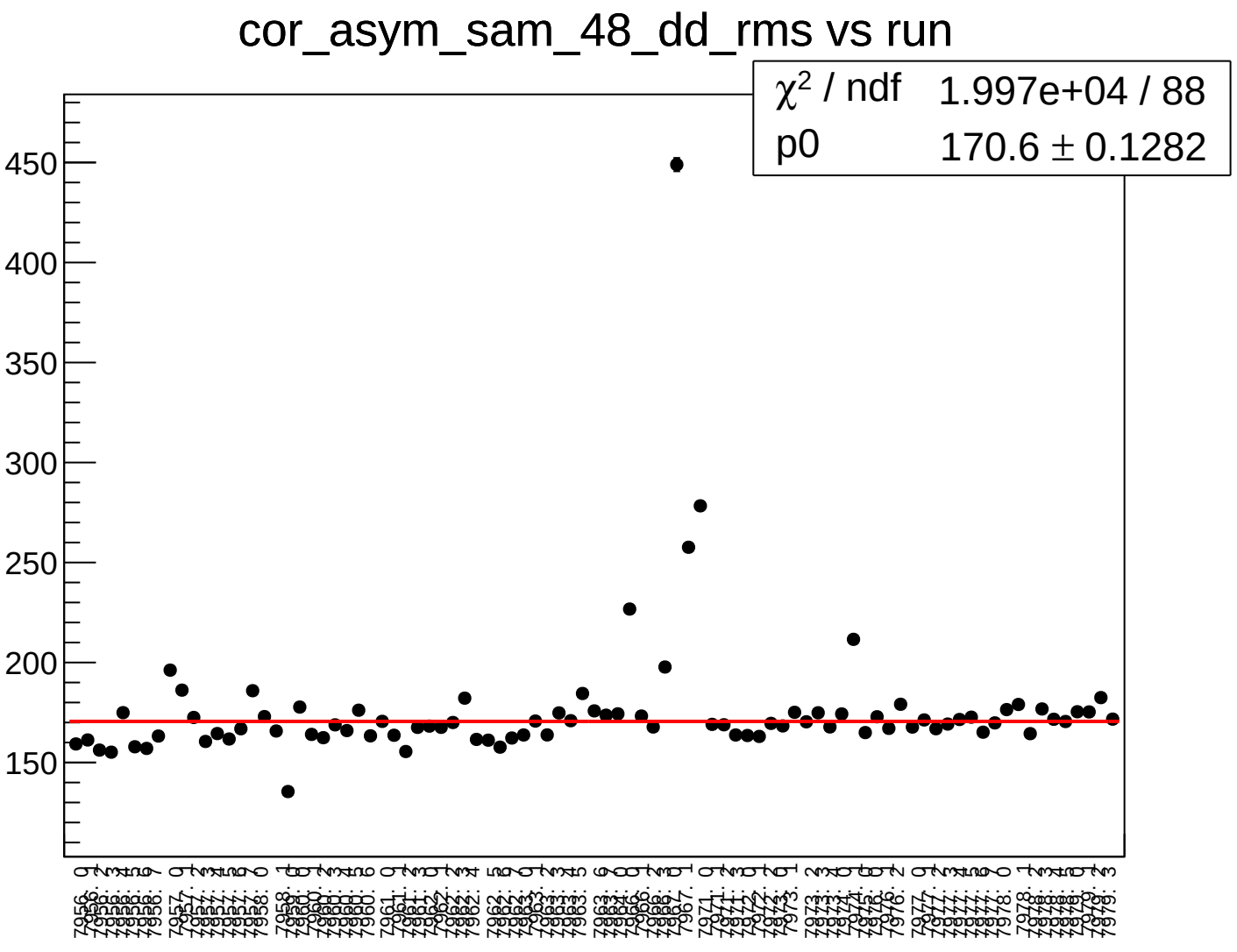

asym_sam_48_dd_reg_correction_mean vs run
×10^3
χ² / ndf 108.9 / 88
p0 721.9 ± 2429
pull
Entries 89
Mean −176.7
Std Dev 0

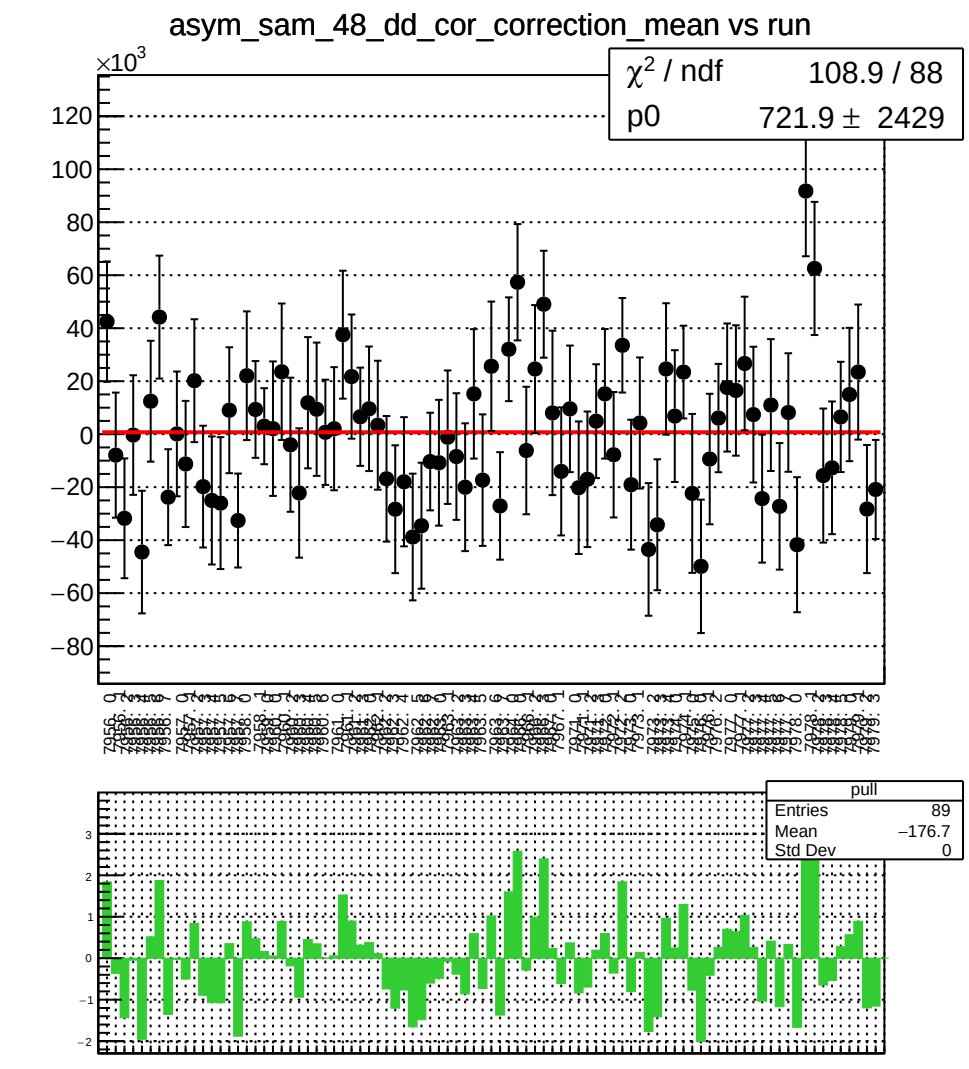

pull1D
Entries 89
Mean −0.01023
Std Dev 1.106

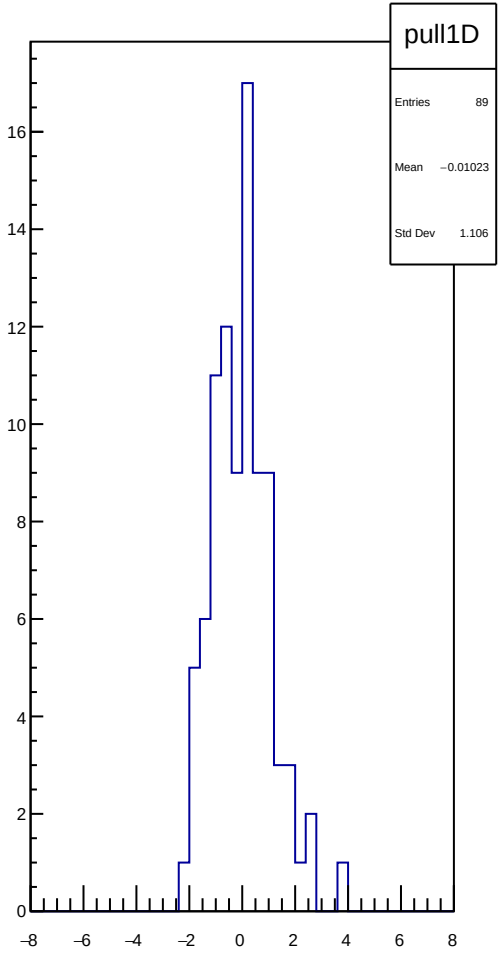

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 6741 / 88
p0 2294 ± 1.718
3000
2800
2600
2400
2200
2000
1800
1600

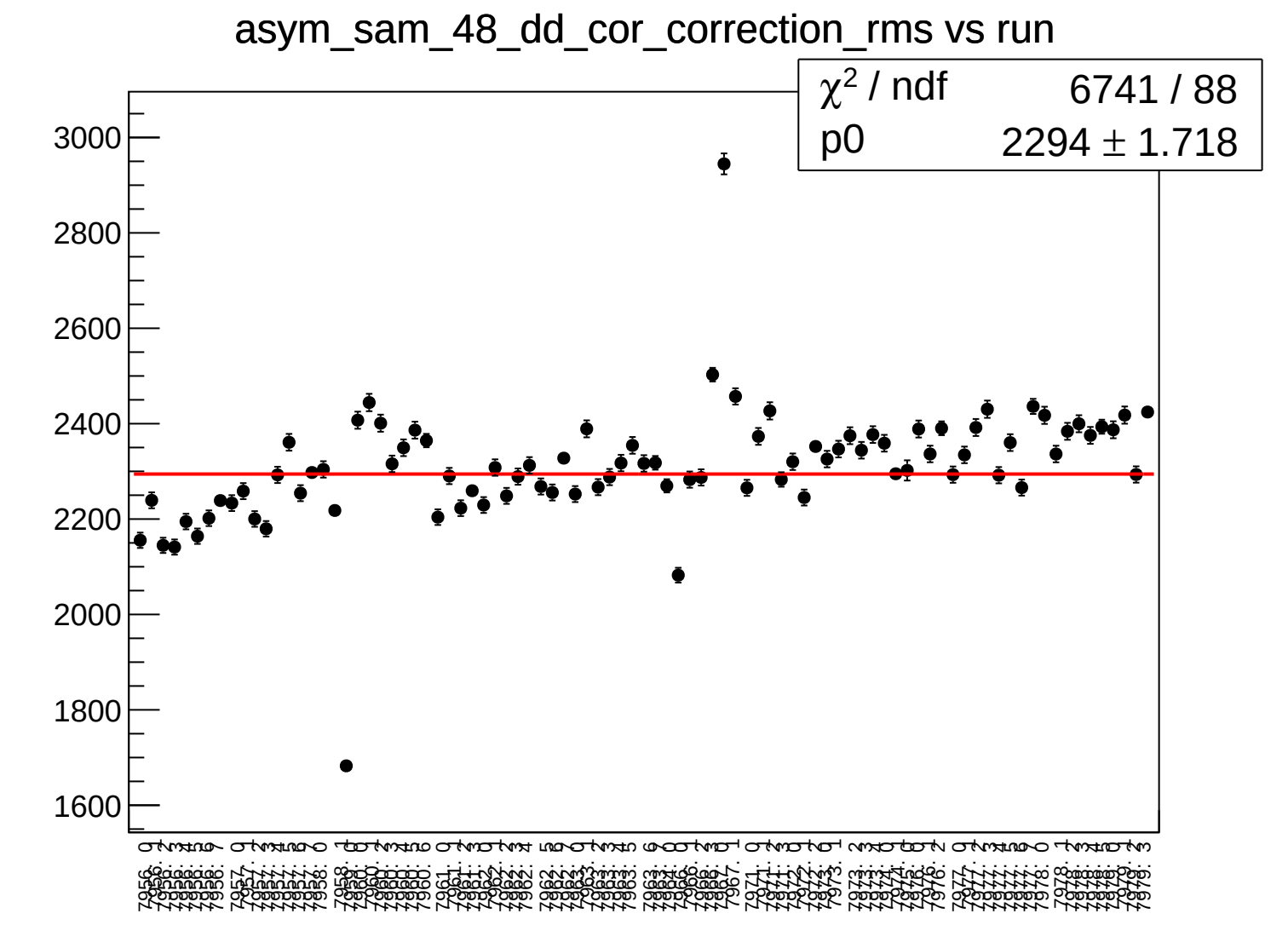

cor_asym_sam_48_dd_mean vs run
χ² / ndf 83.4 / 88
p0 116.5 ± 181.3
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −36.59
Std Dev 0
2
1
0
−1
−2

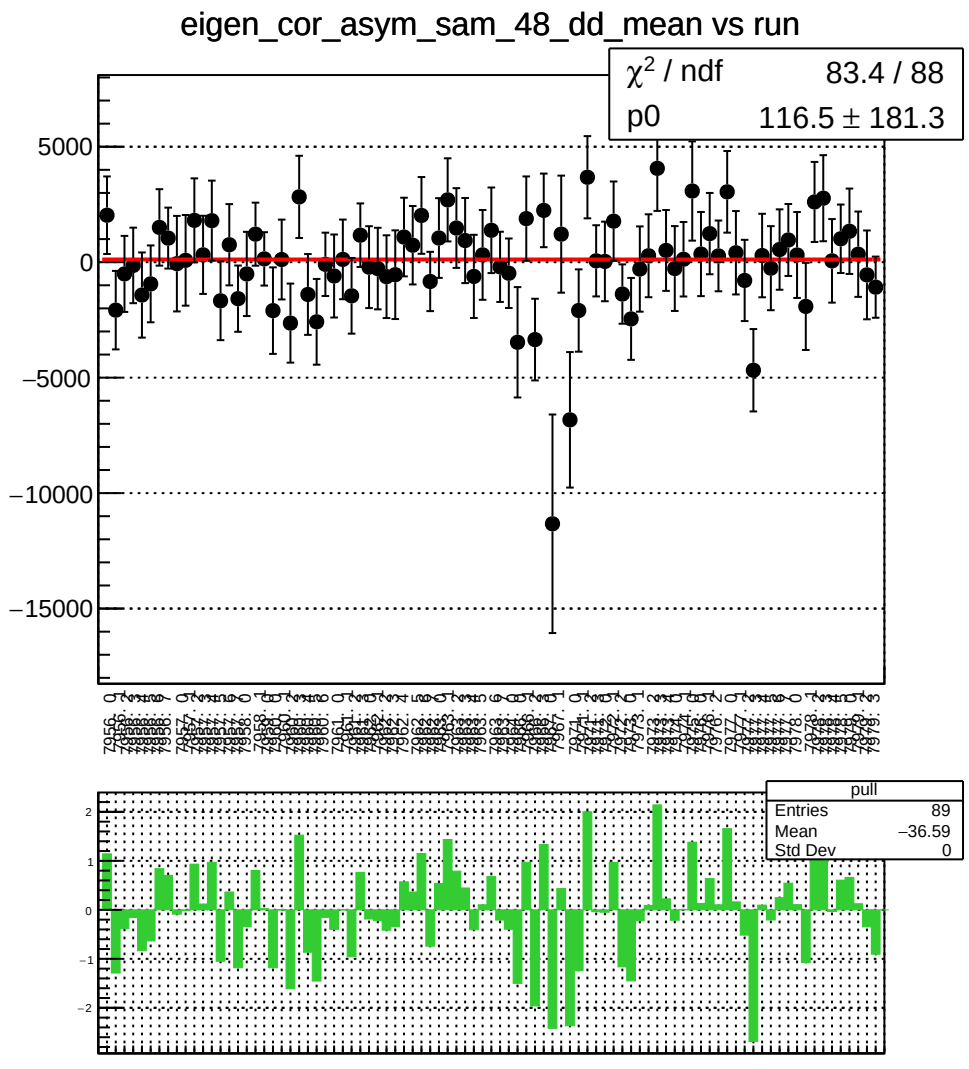

pull1D
Entries 89
Mean −0.02412
Std Dev 0.9677
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

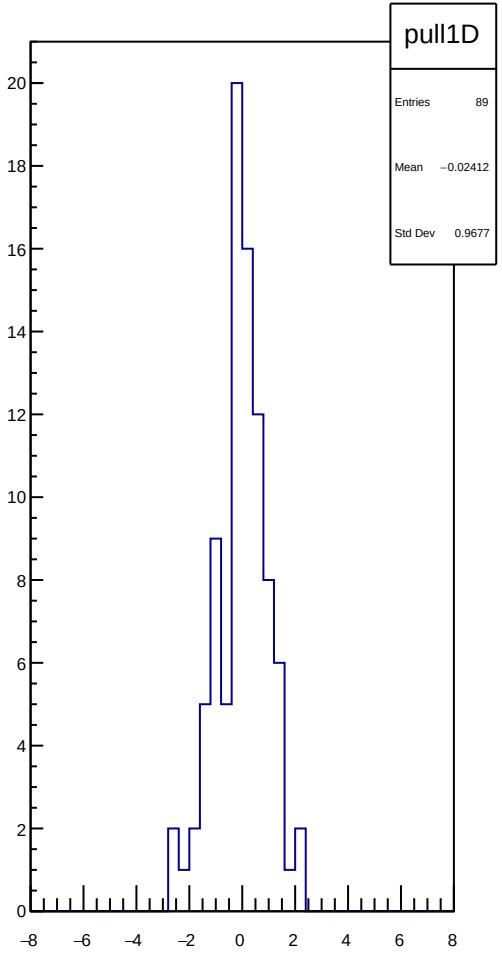

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.997e+04 / 88
p0 170.6 ± 0.1282
450
400
350
300
250
200
150

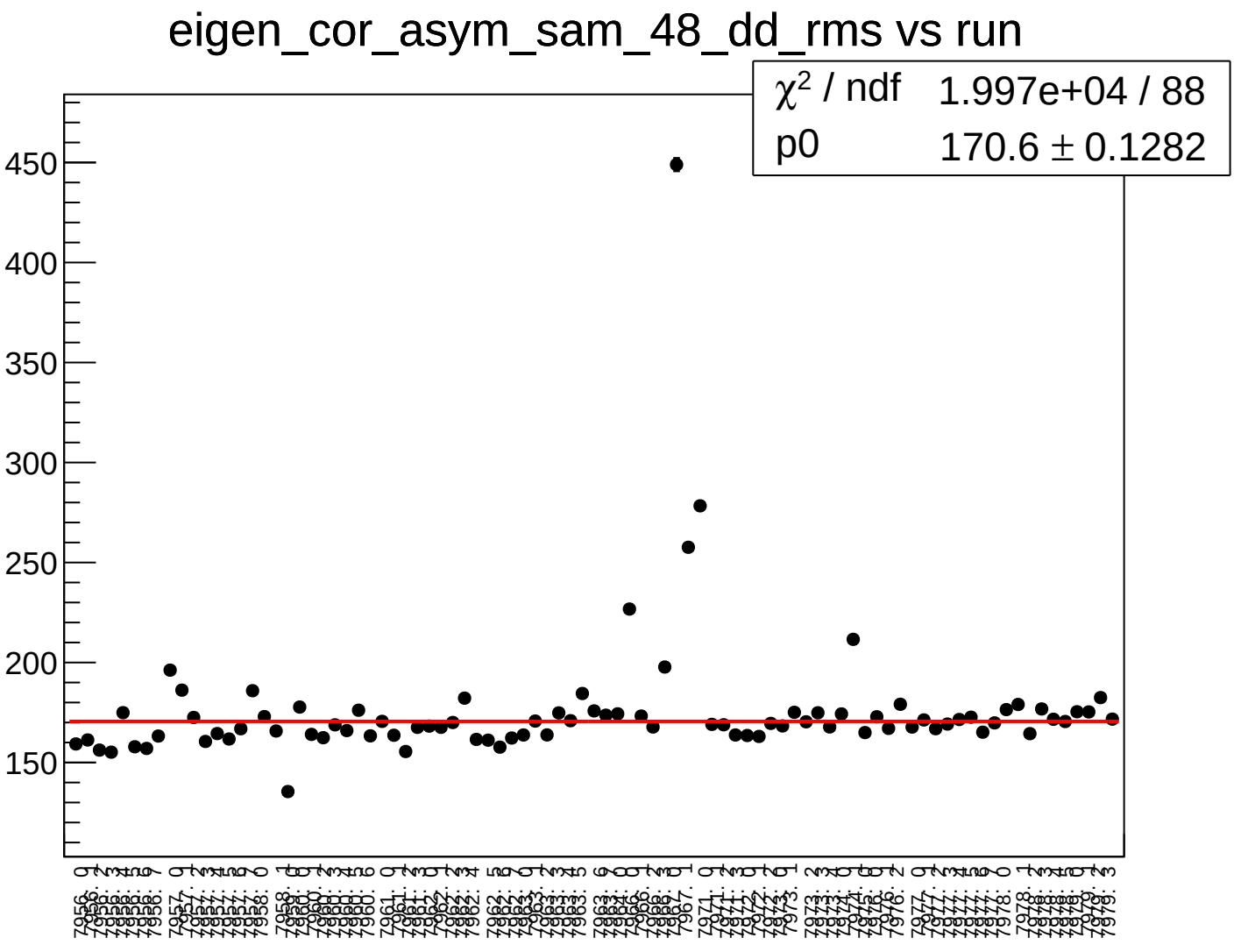

asym_sam_48_dd_cor_correction_mean vs run
×10^3
χ² / ndf 108.9 / 88
p0 721.9 ± 2429
120
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 89
Mean −176.7
Std Dev 0
3
2
1
0
−1
−2

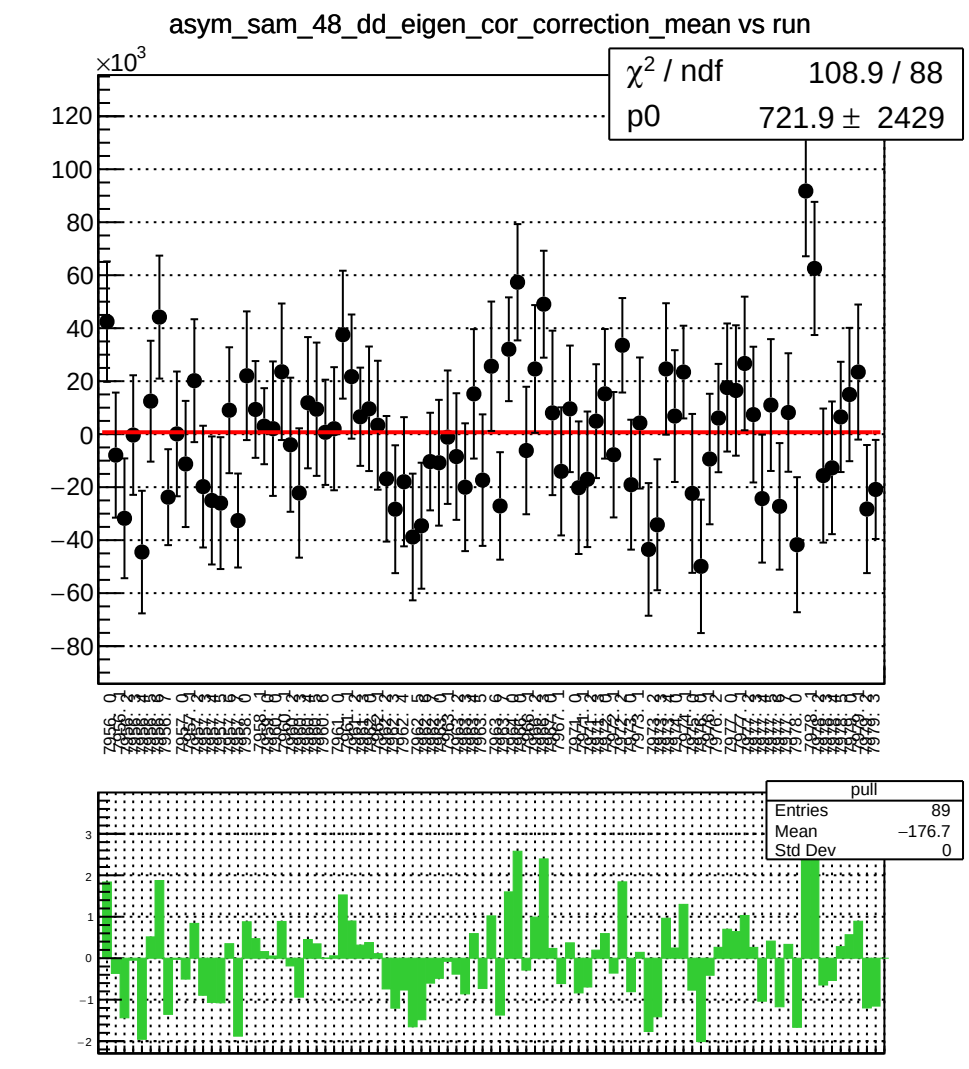

pull1D
Entries 89
Mean −0.01023
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

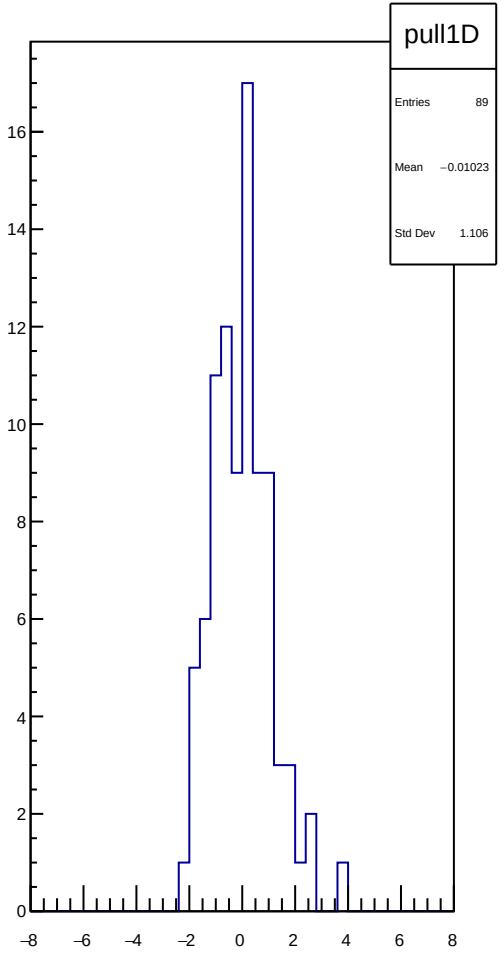

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 6741 / 88
p0 2294 ± 1.718
3000
2800
2600
2400
2200
2000
1800
1600

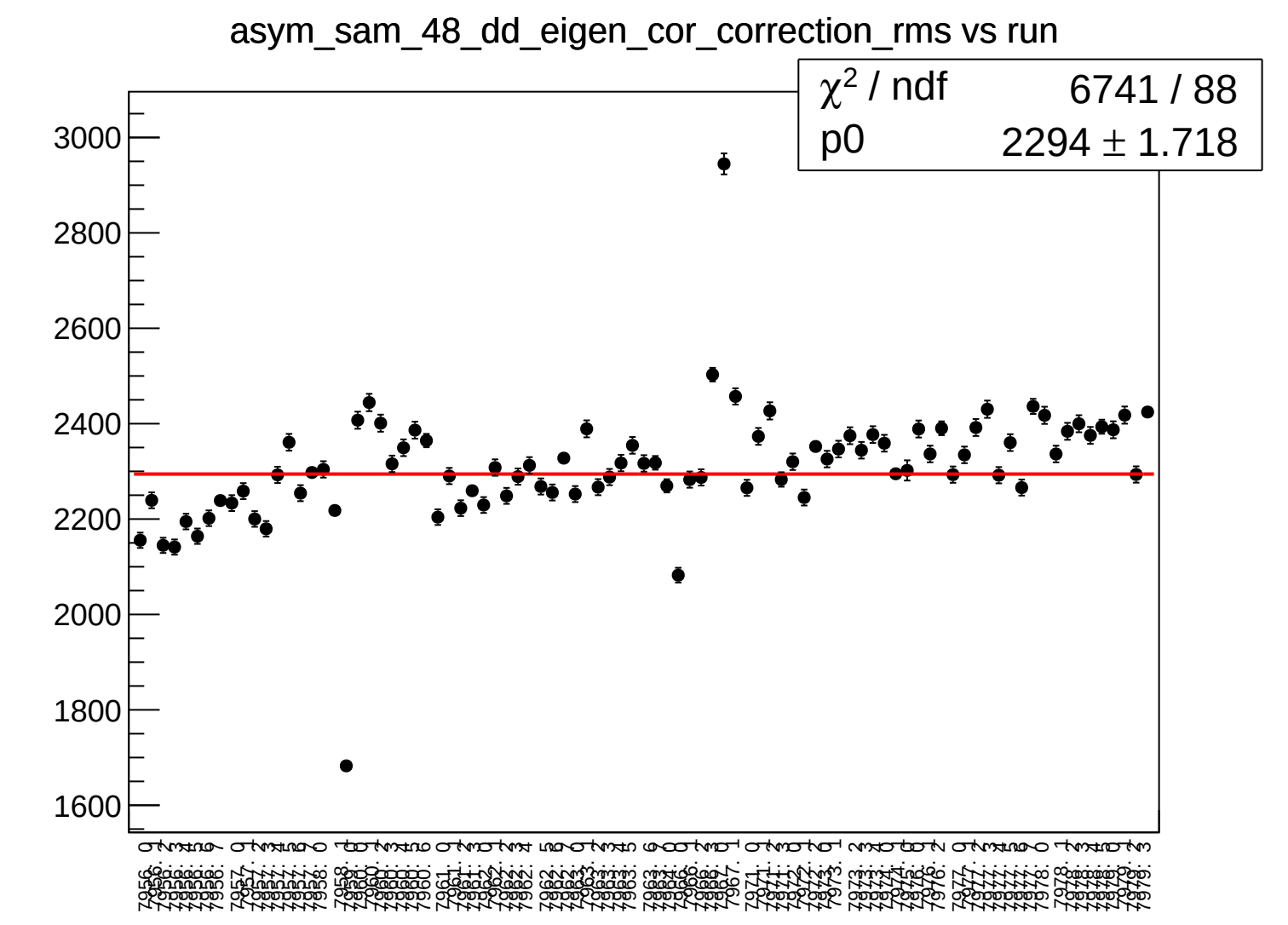

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 83.4 / 88
p0 116.5 ± 181.3
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −36.59
Std Dev 0
2
1
0
−1
−2

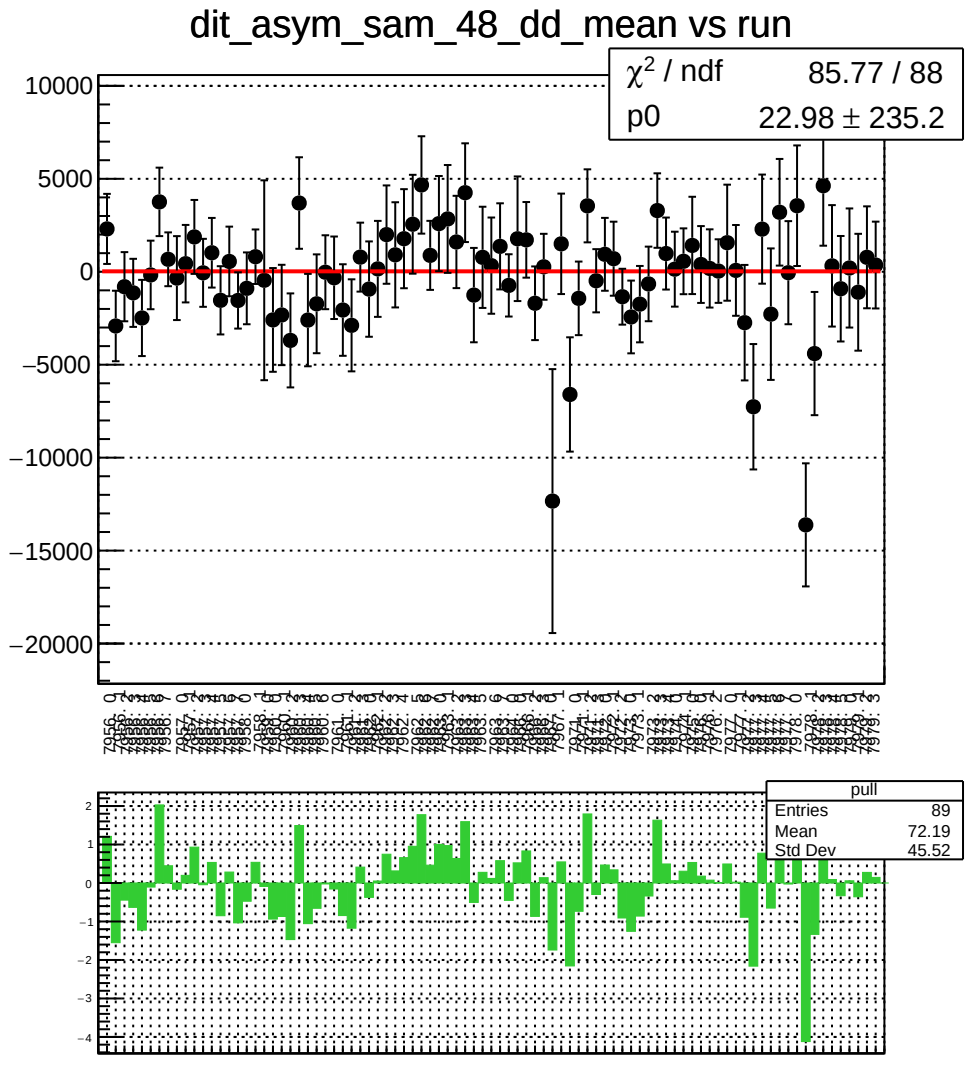

pull1D
Entries 89
Mean −0.02412
Std Dev 0.9677
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

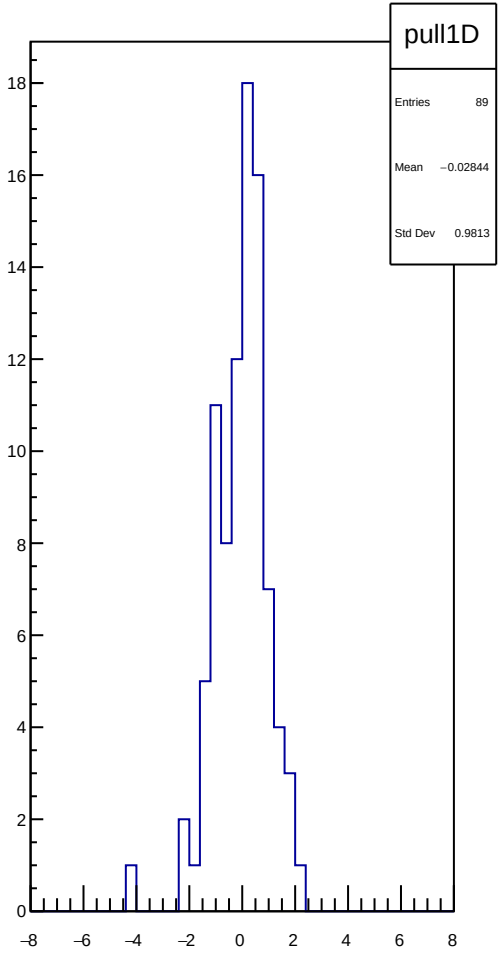

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.997e+04 / 88
p0 170.6 ± 0.1282
450
400
350
300
250
200
150

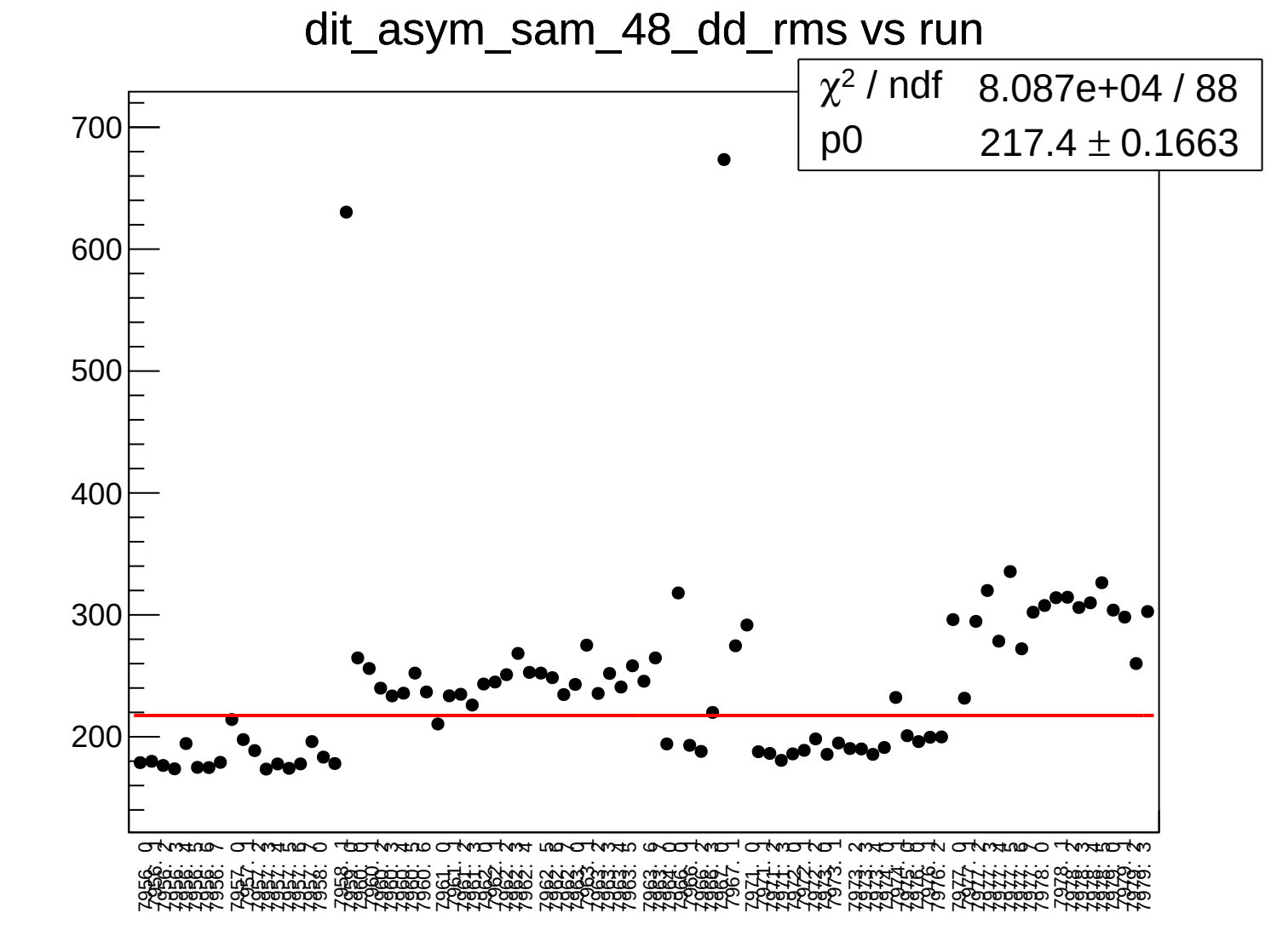

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 108.9 / 88
p0 721.9 ± 2429
pull
Entries 89
Mean −176.7
Std Dev 0

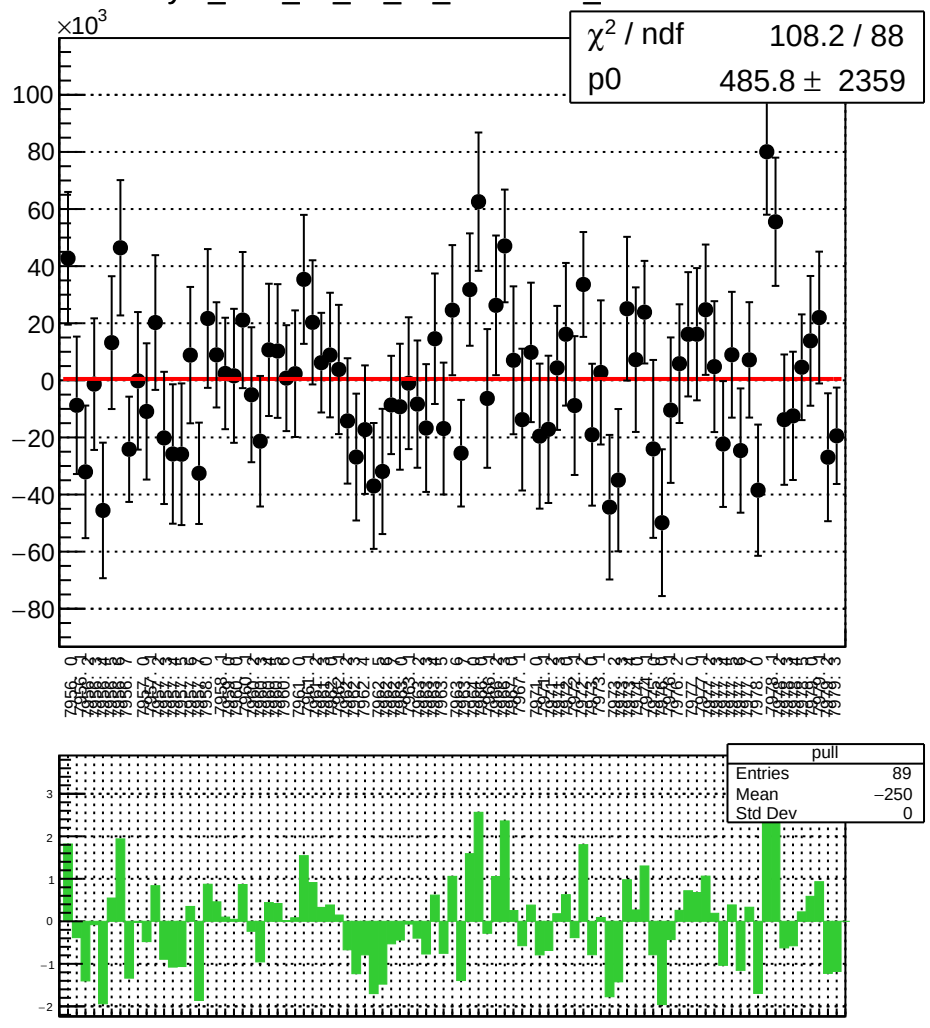

pull1D
Entries 89
Mean −0.01023
Std Dev 1.106

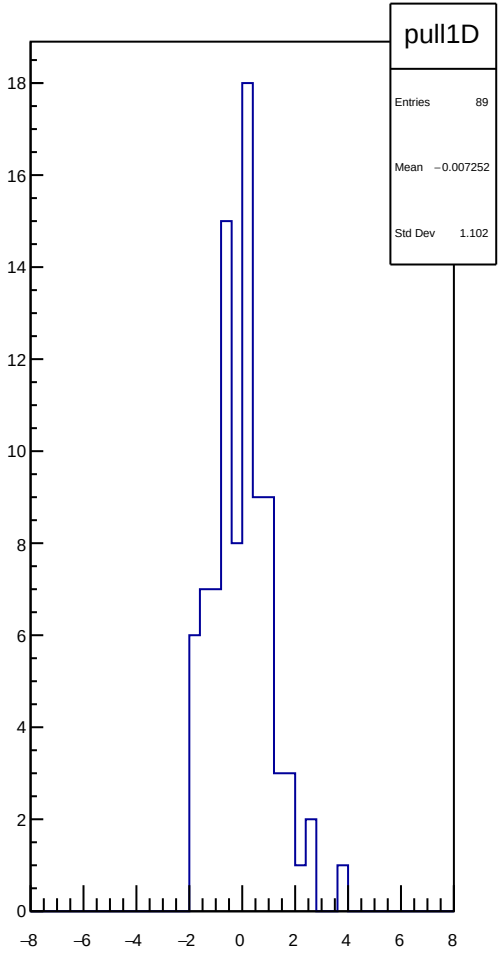

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6741 / 88
p0 2294 ± 1.718
3000
2800
2600
2400
2200
2000
1800
1600

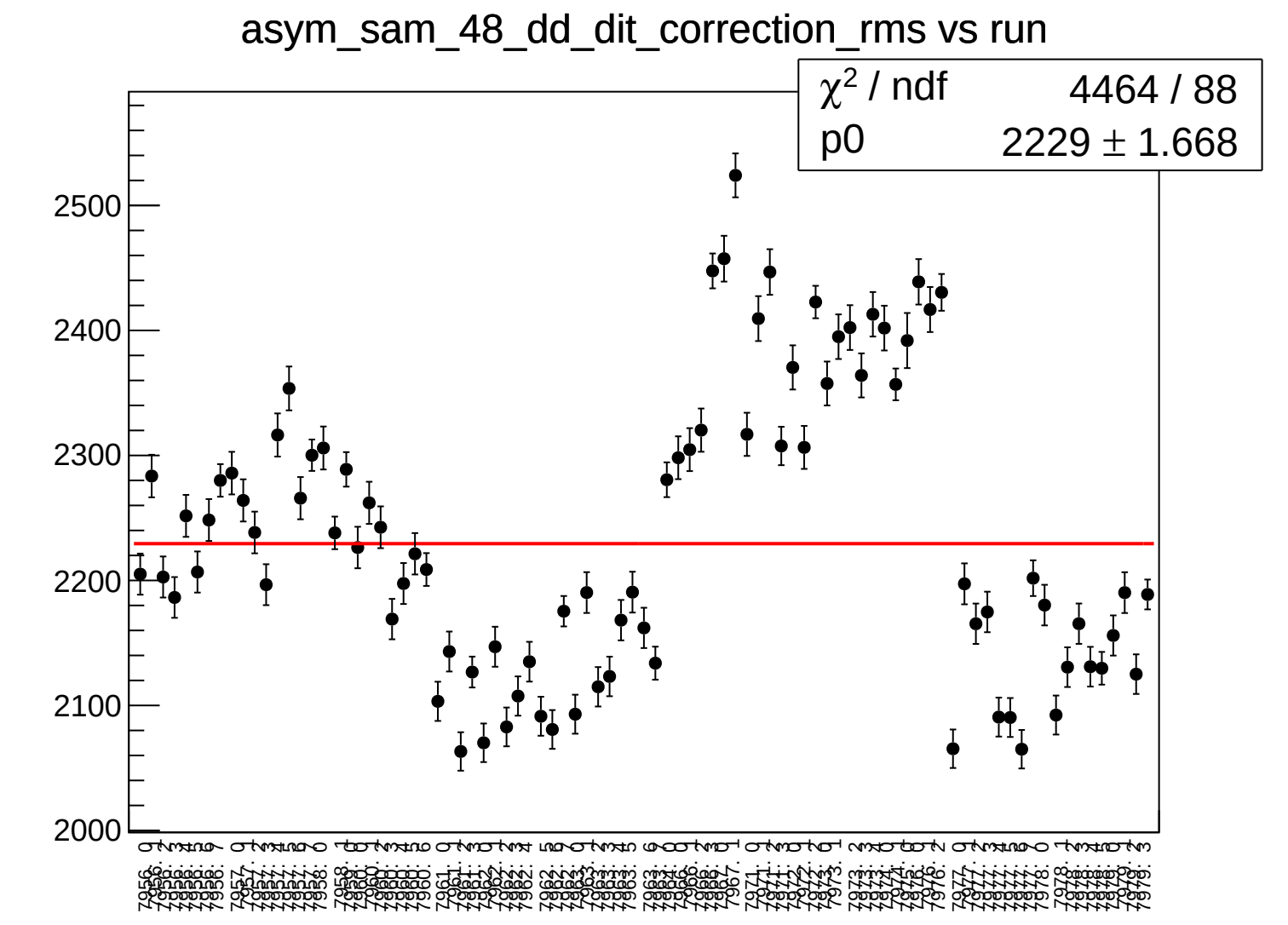

dit_asym_sam_48_dd_mean vs run
χ² / ndf 85.77 / 88
p0 22.98 ± 235.2
pull
Entries 89
Mean 72.19
Std Dev 45.52

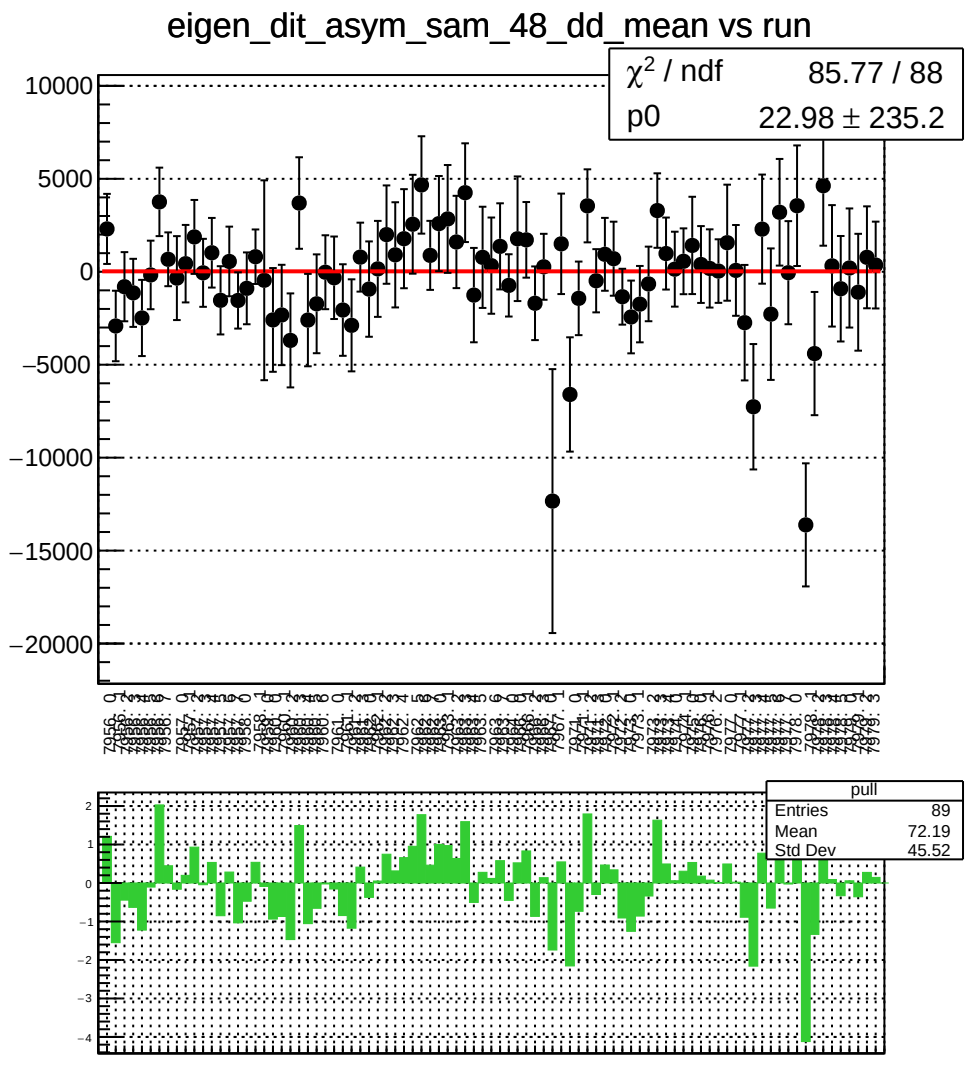

pull1D
Entries 89
Mean −0.02844
Std Dev 0.9813

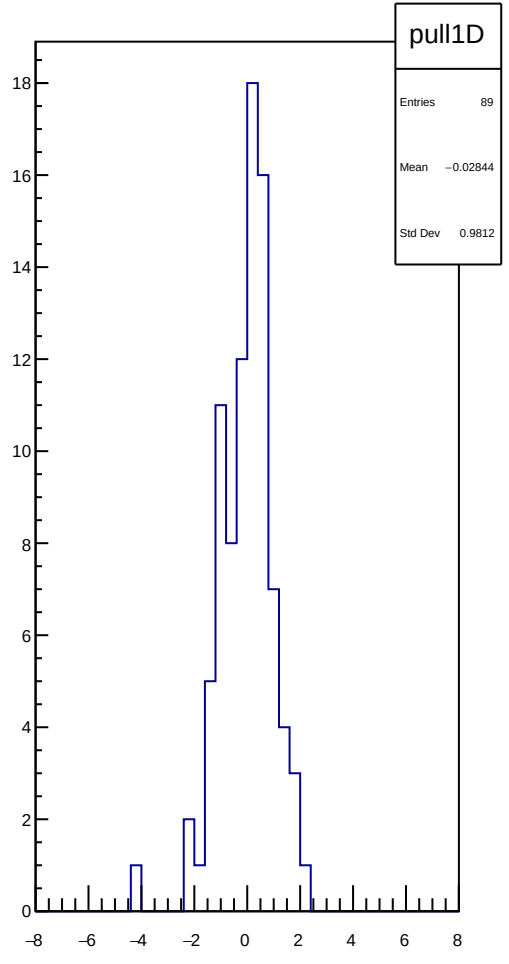

dit_asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 8.087e+04 / 88
p0 217.4 ± 0.1663
700
600
500
400
300
200

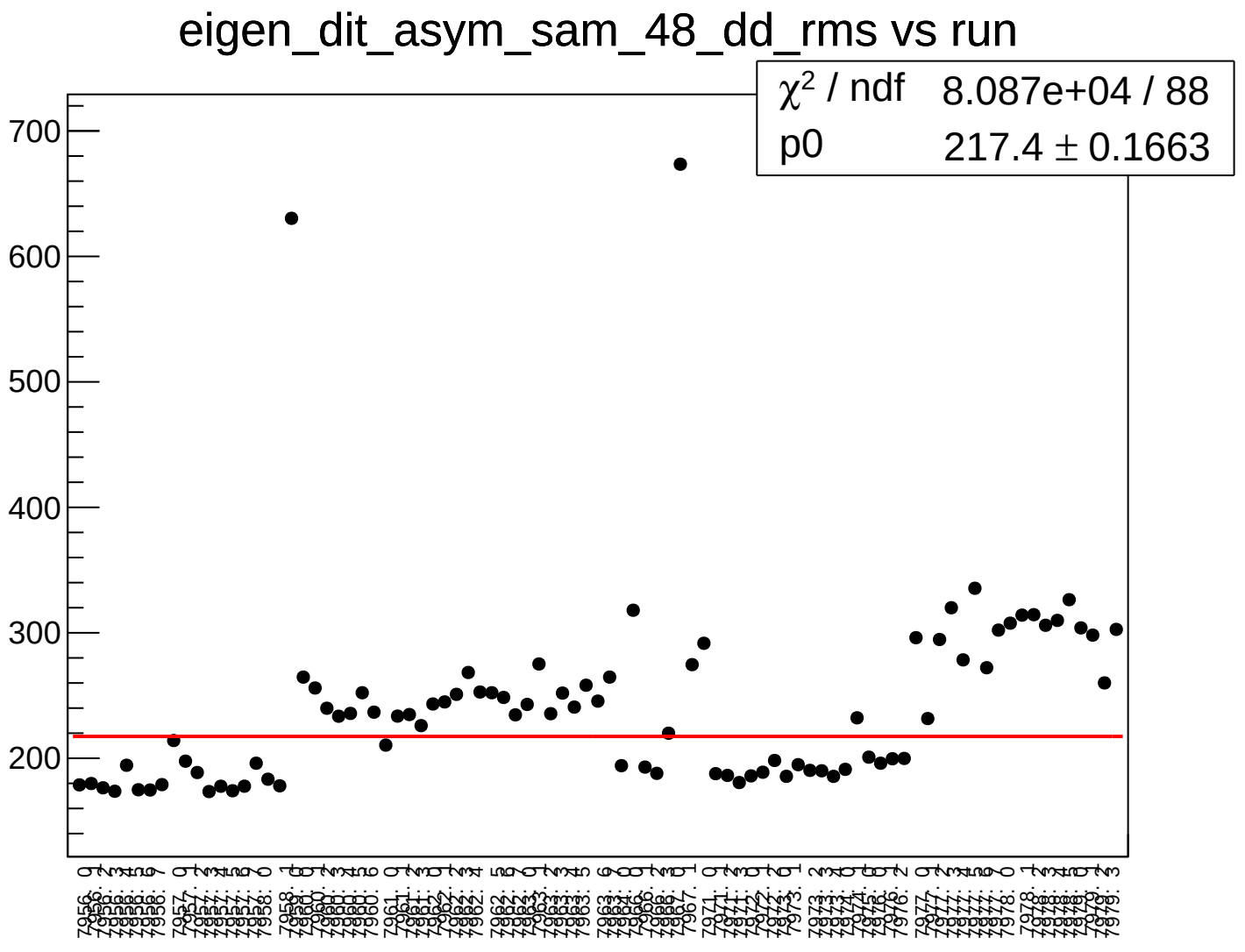

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ² / ndf 108.2 / 88
p0 485.8 ± 2359
pull
Entries 89
Mean −250
Std Dev 0

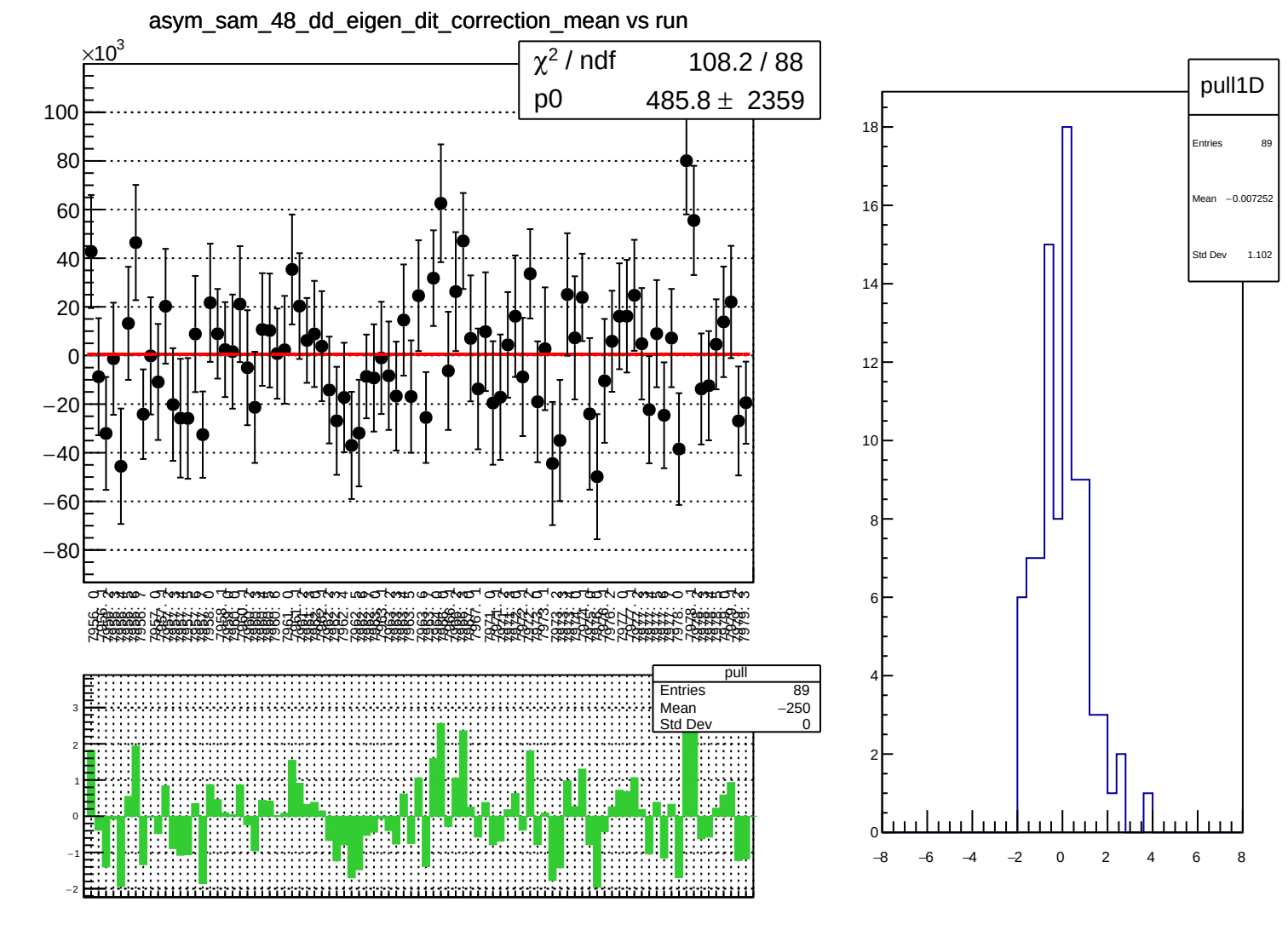

pull1D
Entries 89
Mean −0.007252
Std Dev 1.102

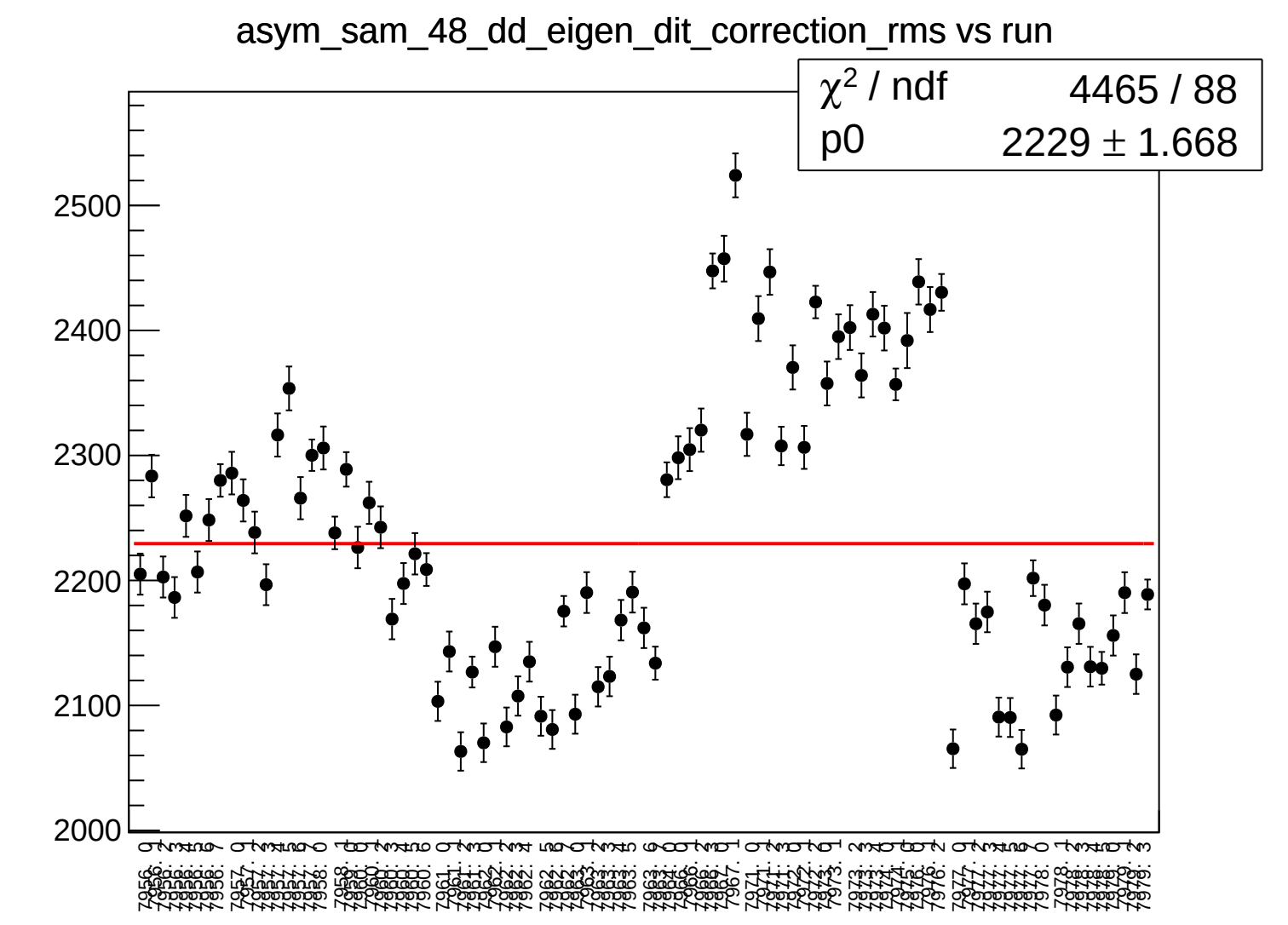

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 4464 / 88
p0 2229 ± 1.668
2500
2400
2300
2200
2100
2000

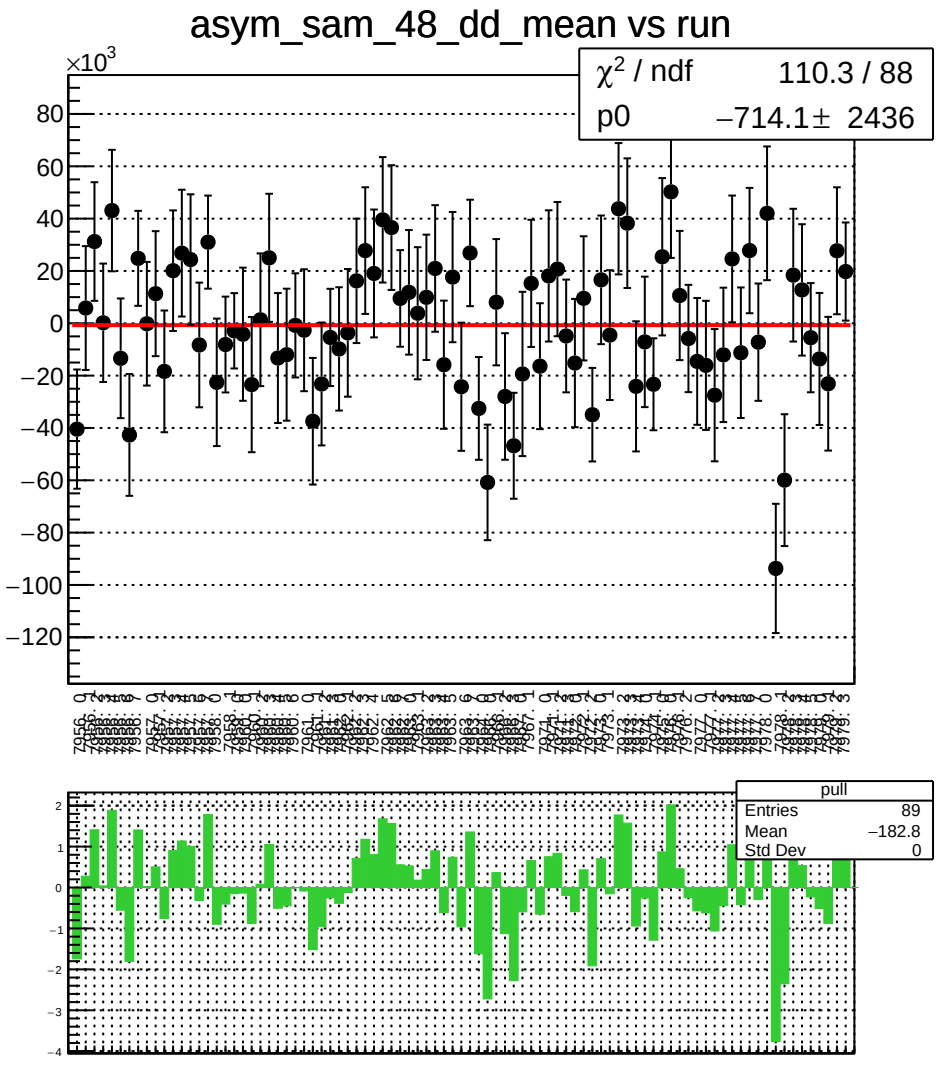

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 85.77 / 88
p0 22.98 ± 235.2
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 72.19
Std Dev 45.52
2
1
0
−1
−2
−3
−4

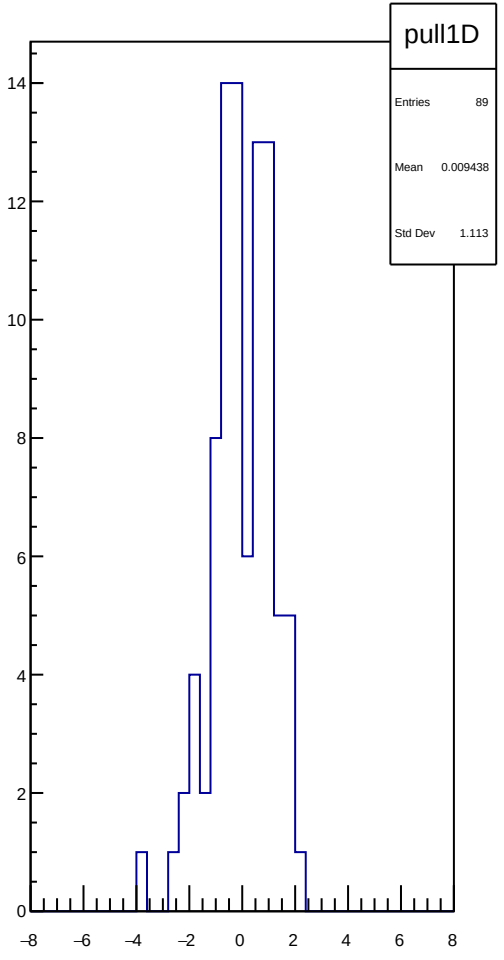

pull1D
Entries 89
Mean −0.02844
Std Dev 0.9812
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

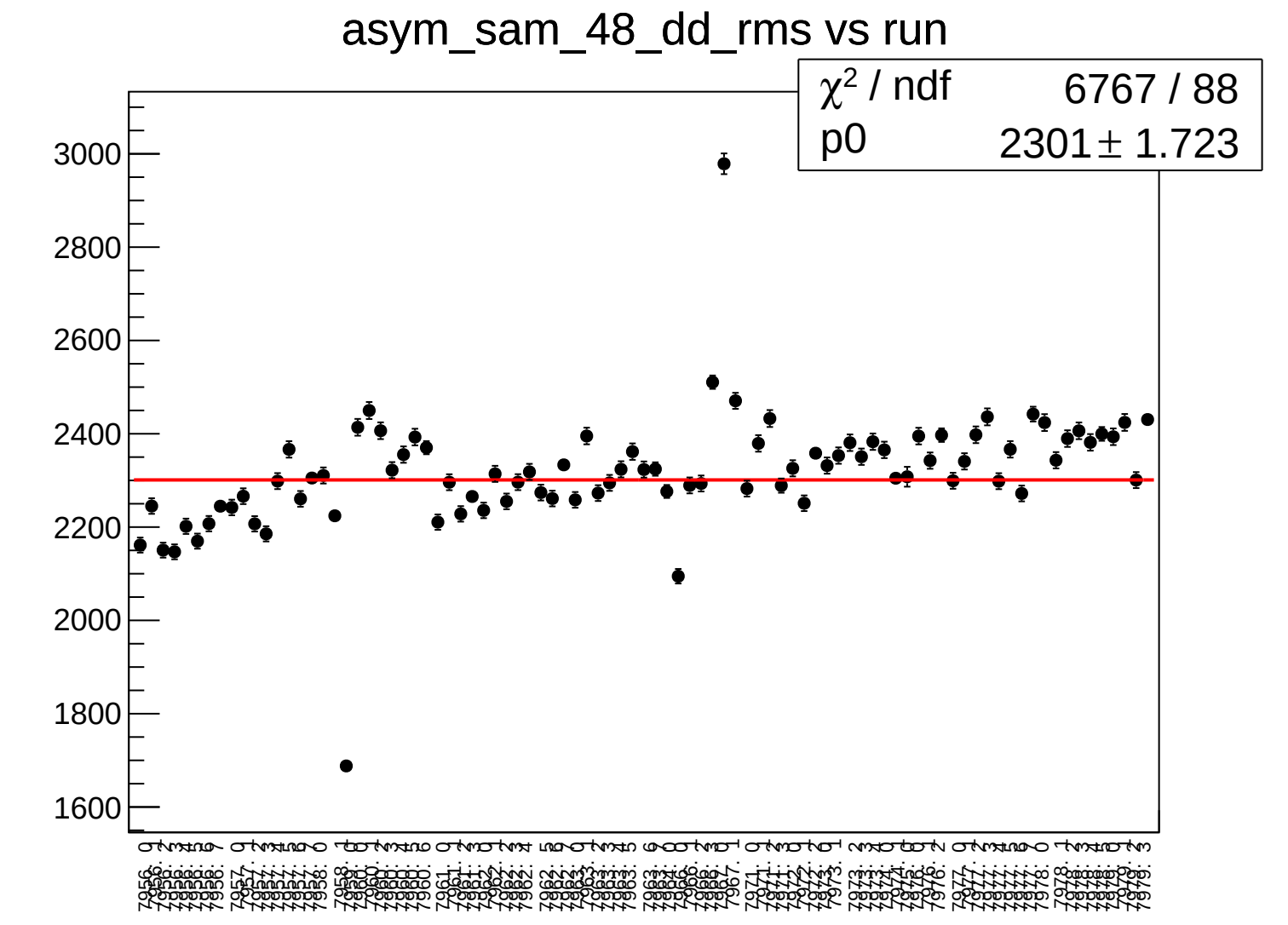

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 8.087e+04 / 88
p0 217.4 ± 0.1663
700
600
500
400
300
200

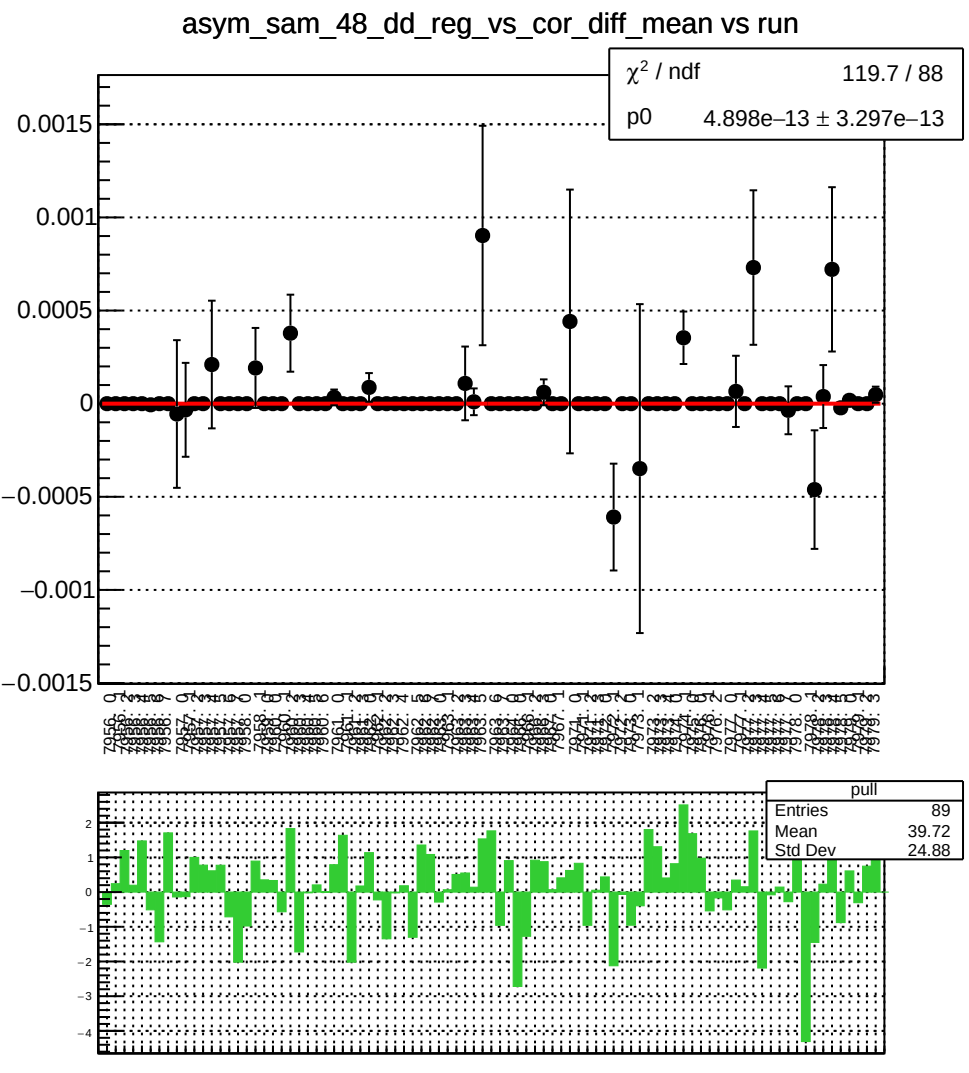

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 108.2 / 88
p0 485.8 ± 2359
pull
Entries 89
Mean −250
Std Dev 0
pull1D
Entries 89
Mean −0.007252
Std Dev 1.102

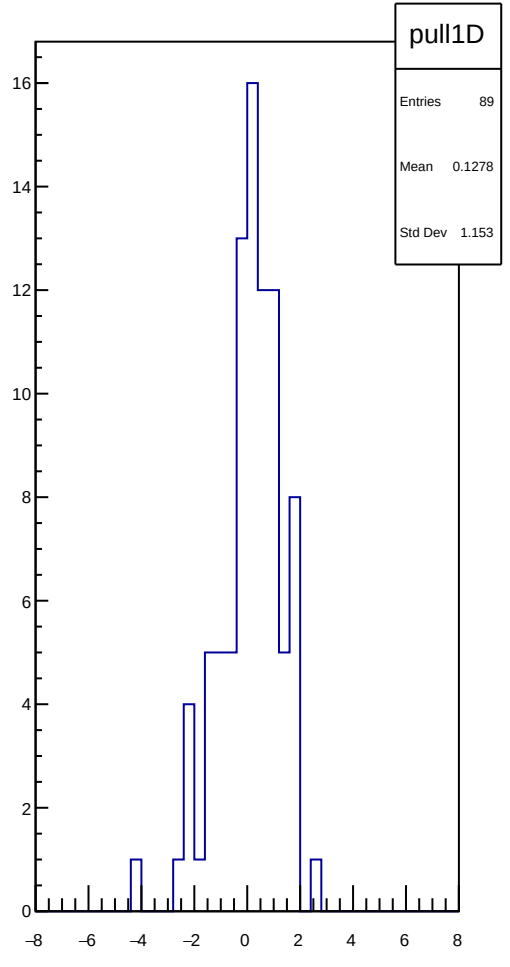

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4465 / 88
p0 2229 ± 1.668
2500
2400
2300
2200
2100
2000

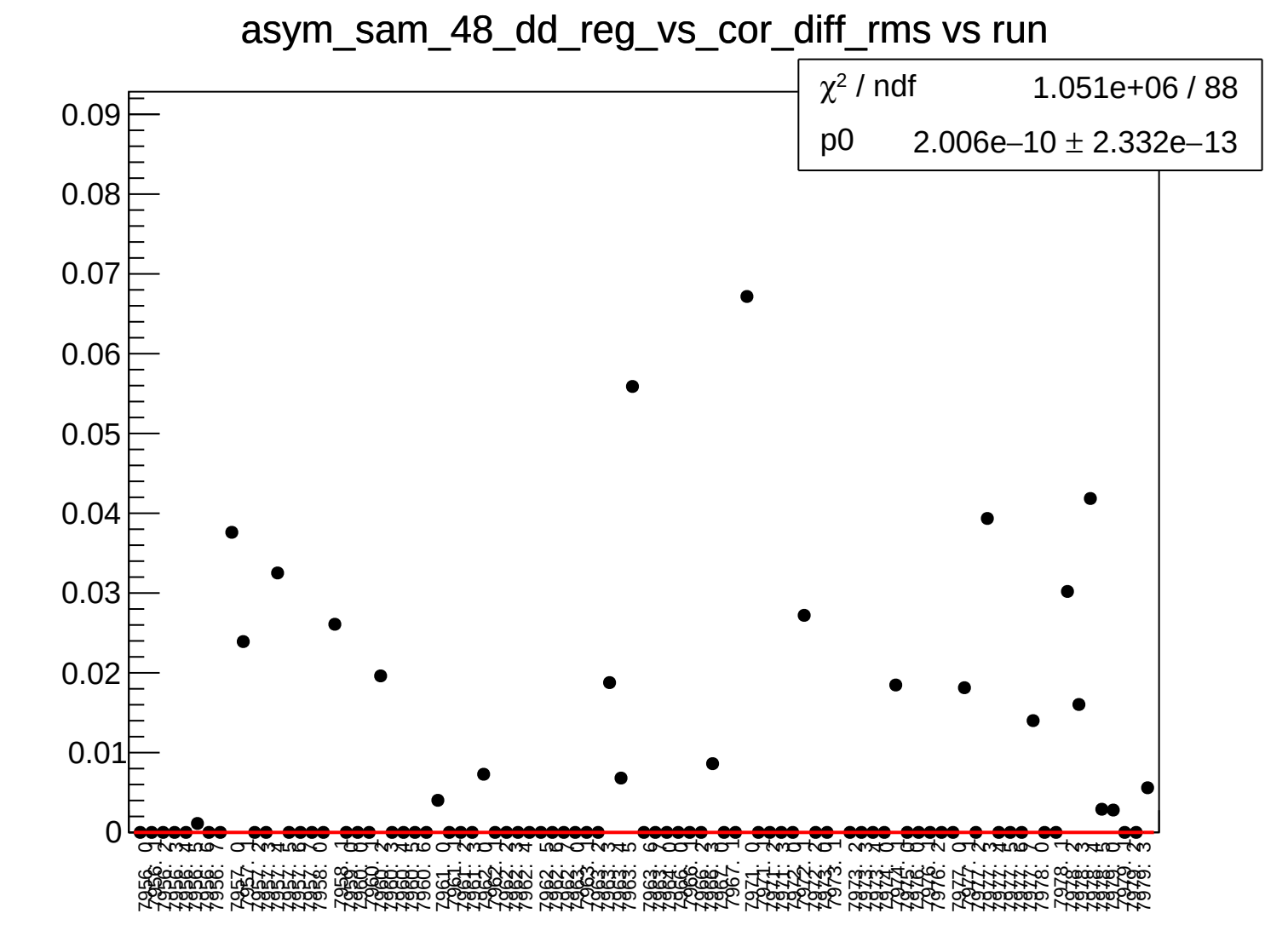

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 110.3 / 88
p0 −714.1± 2436
pull
Entries 89
Mean −182.8
Std Dev 0

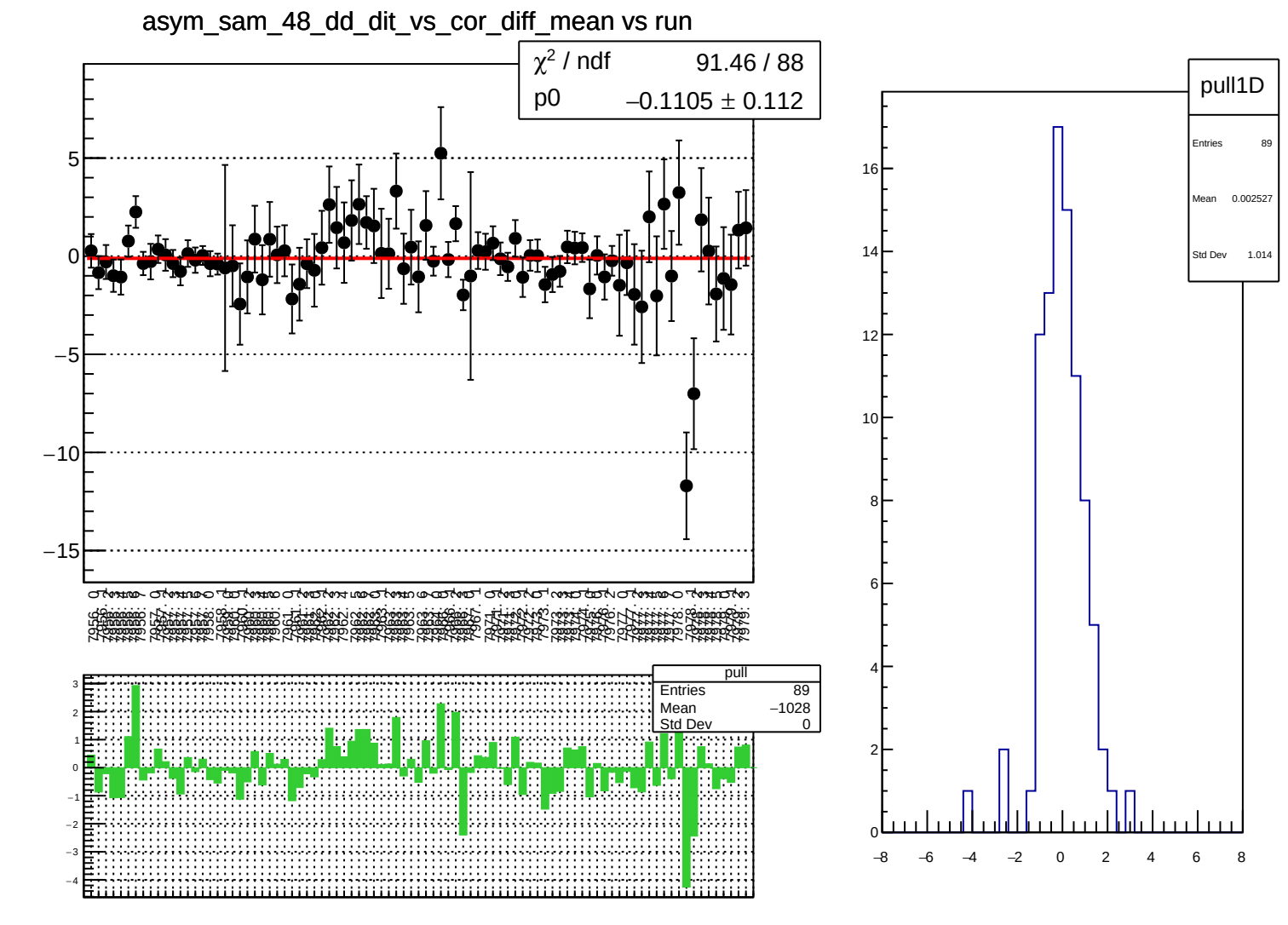

pull1D
Entries 89
Mean 0.009438
Std Dev 1.113

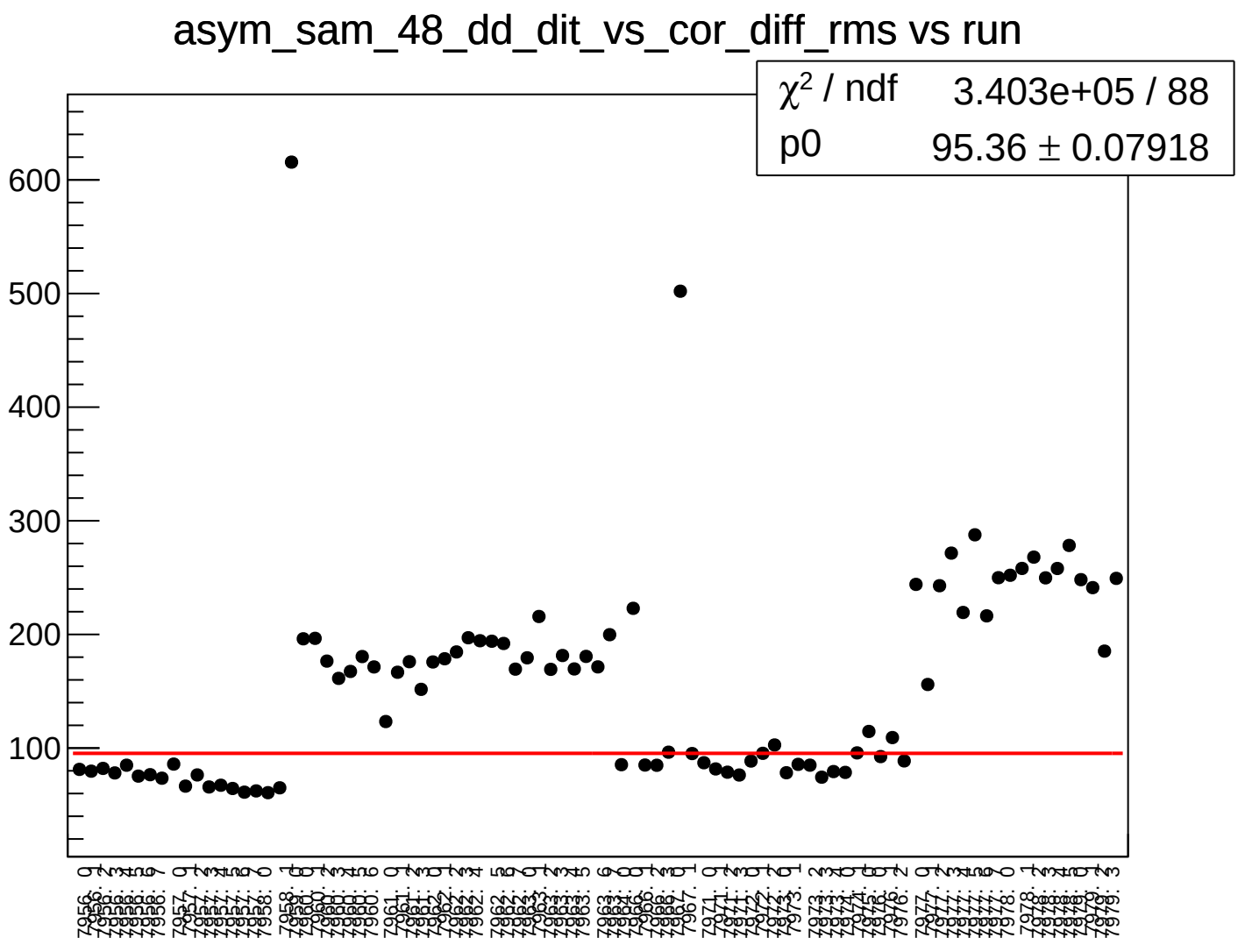

asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 6767 / 88
p0 2301 ± 1.723
3000
2800
2600
2400
2200
2000
1800
1600

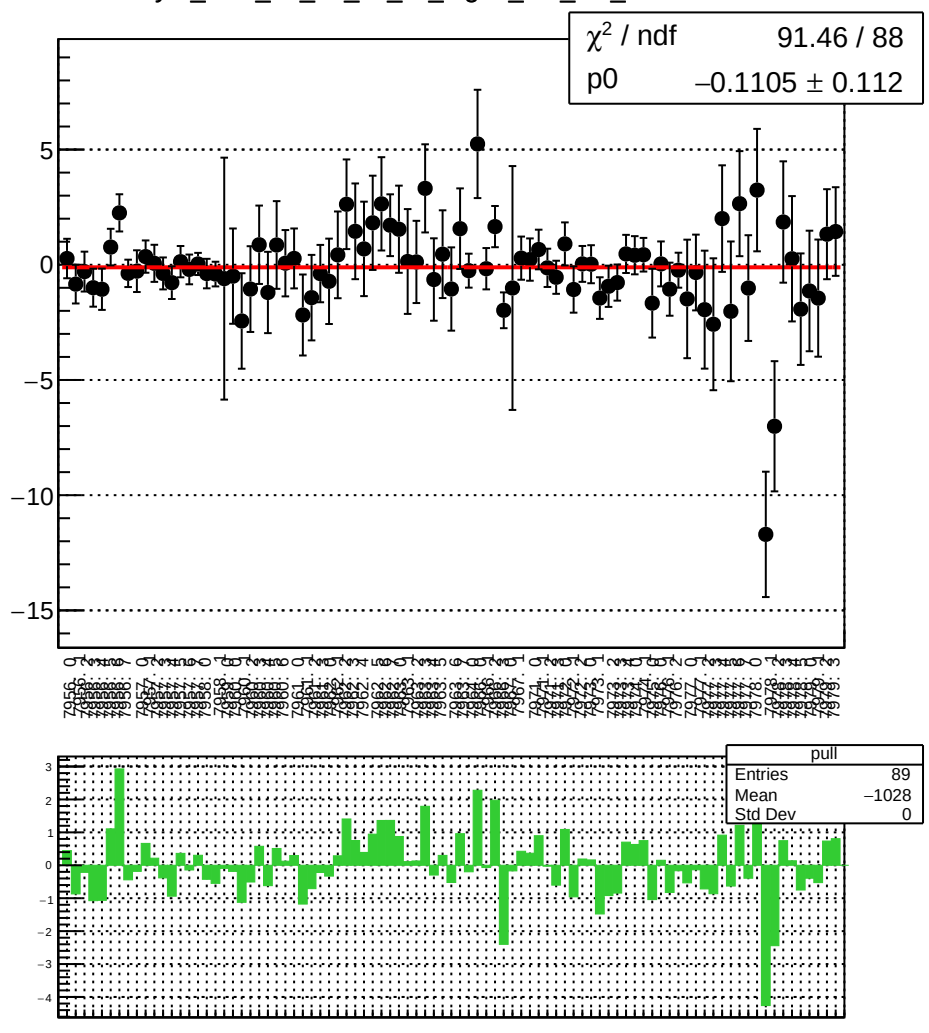

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 119.7 / 88
p0 4.898e−13 ± 3.297e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 39.72
Std Dev 24.88
2
1
0
−1
−2
−3
−4

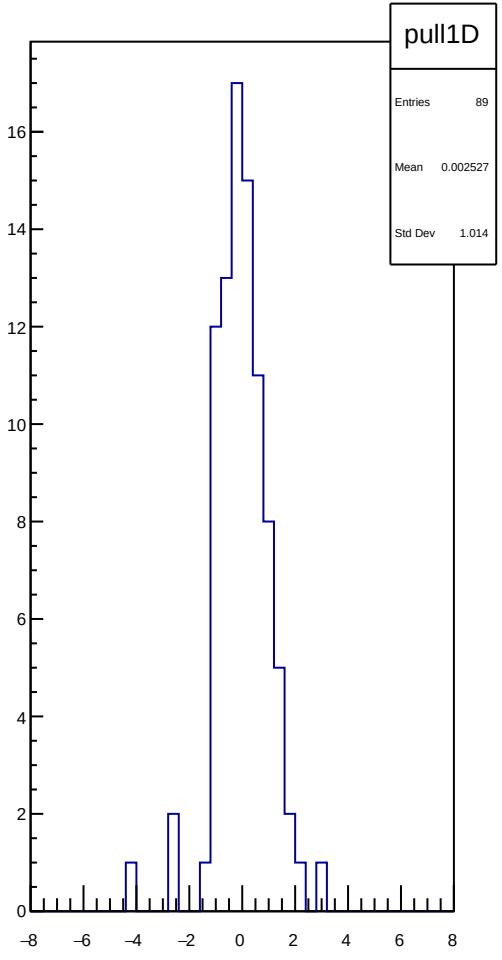

pull1D
Entries 89
Mean 0.1278
Std Dev 1.153
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

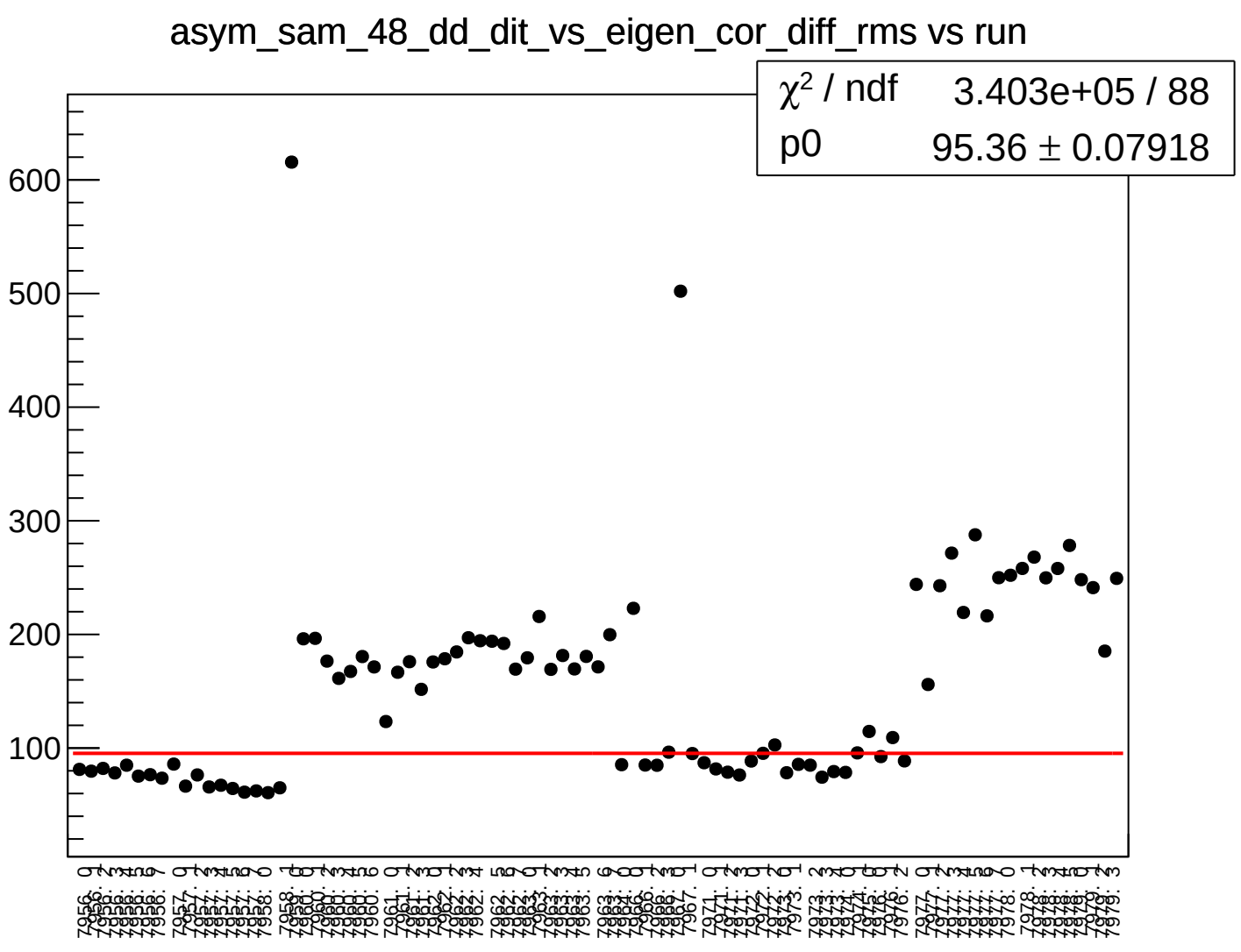

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.051e+06 / 88
p0 2.006e−10 ± 2.332e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

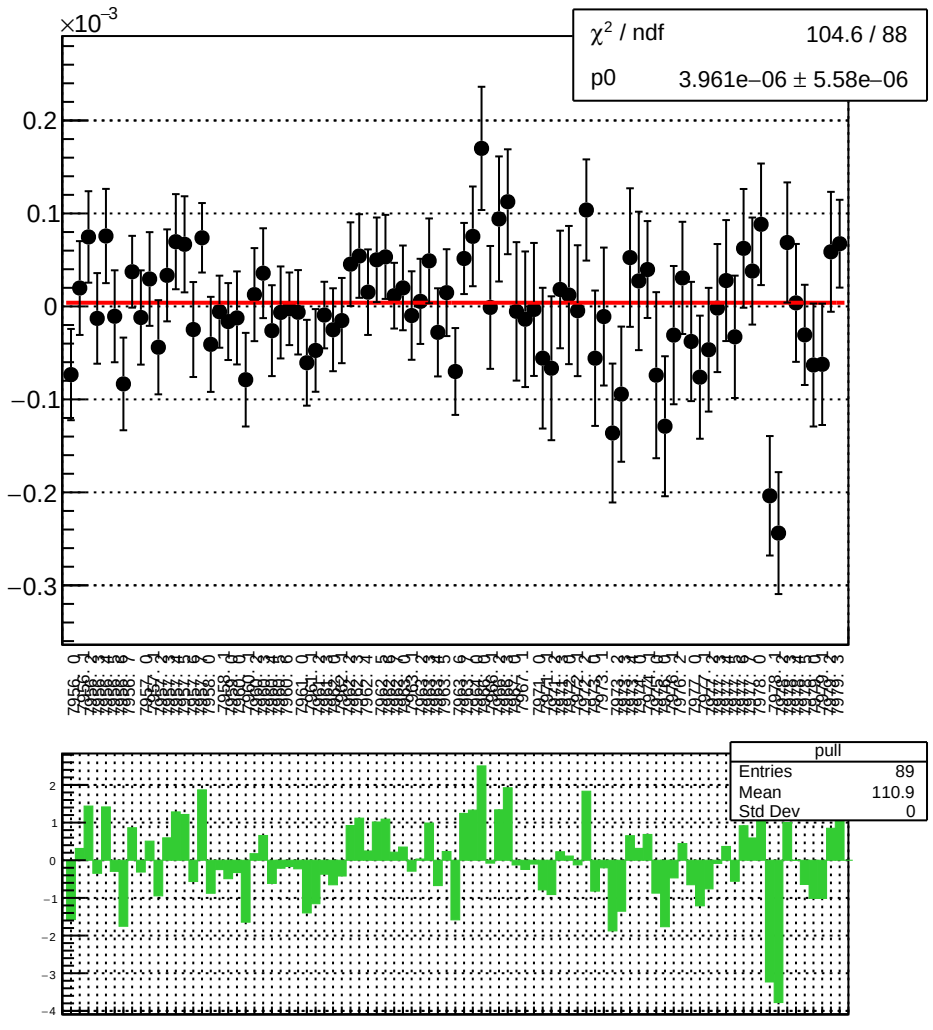

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.46 / 88
p0 −0.1105 ± 0.112
pull
Entries 89
Mean −1028
Std Dev 0
pull1D
Entries 89
Mean 0.002527
Std Dev 1.014

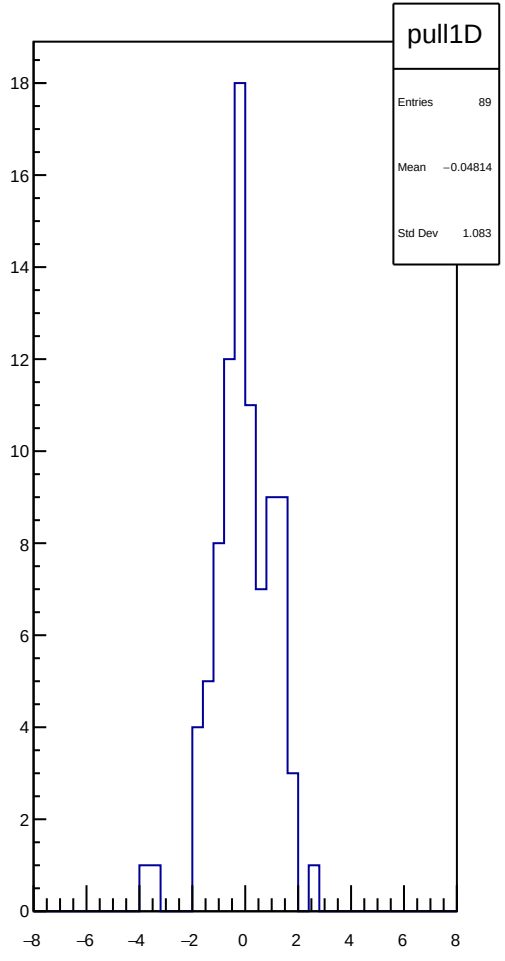

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 3.403e+05 / 88
p0 95.36 ± 0.07918
600
500
400
300
200
100

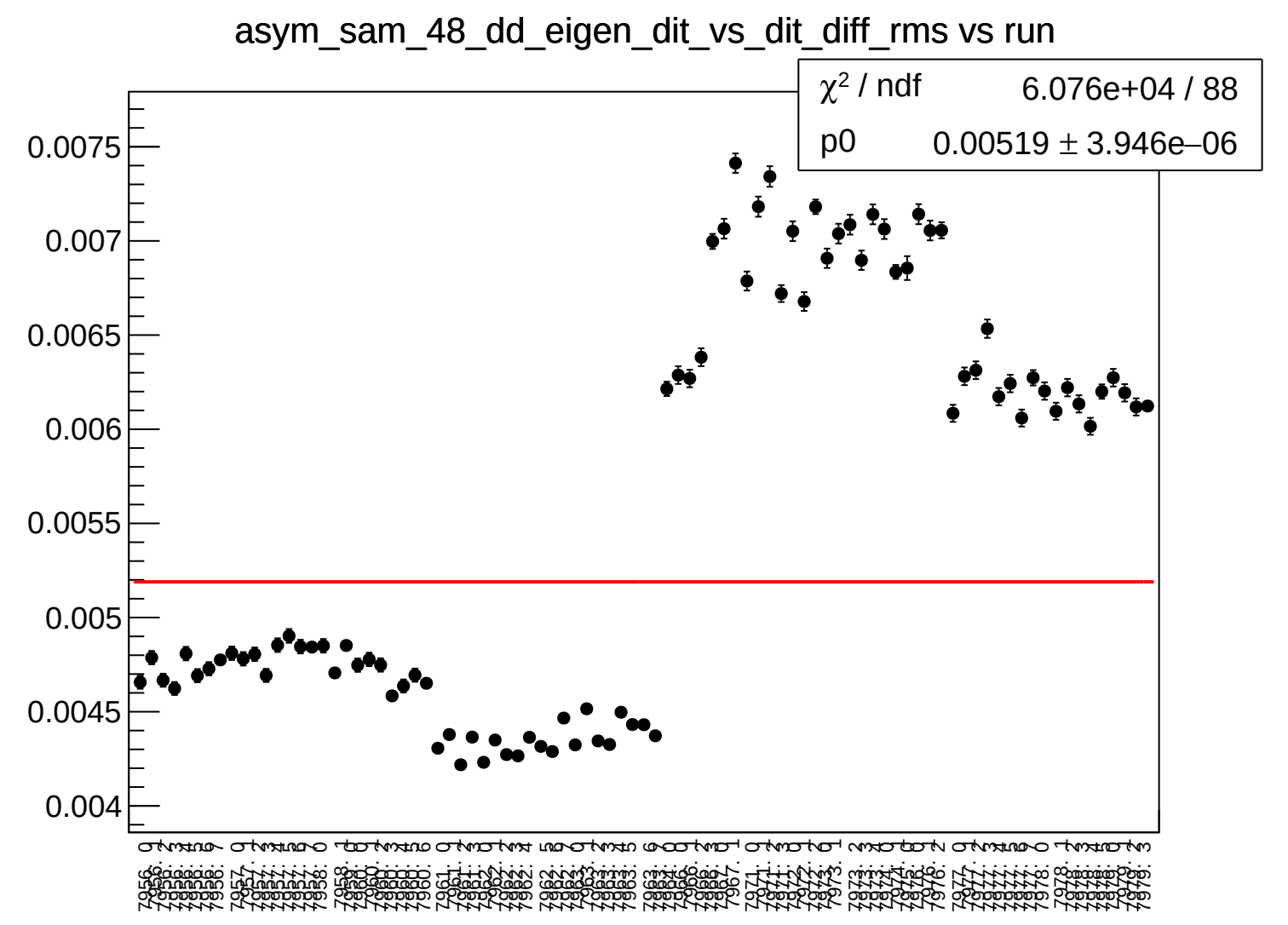

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.46 / 88
p0 −0.1105 ± 0.112
pull
Entries 89
Mean −1028
Std Dev 0

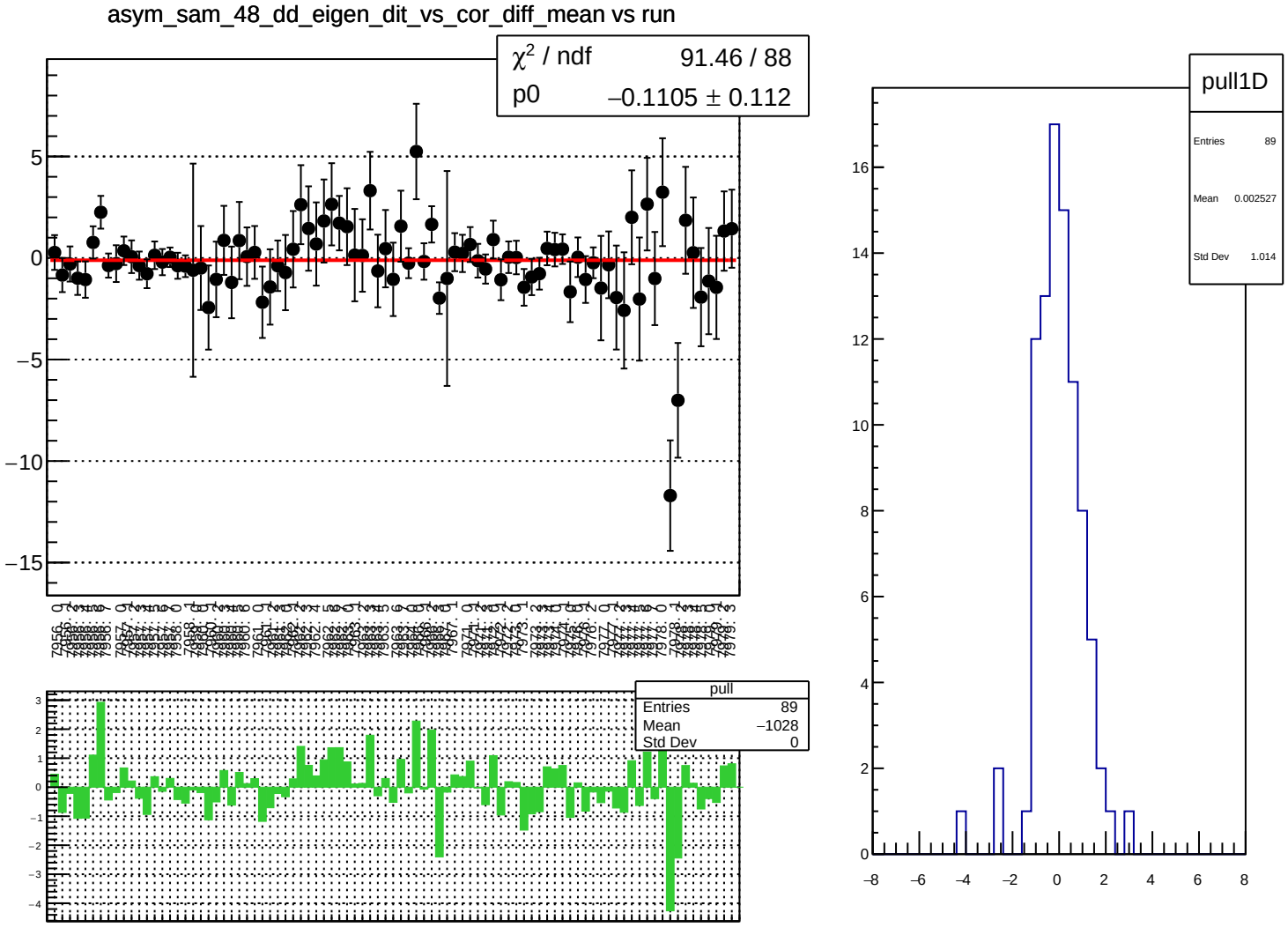

pull1D
Entries 89
Mean 0.002527
Std Dev 1.014

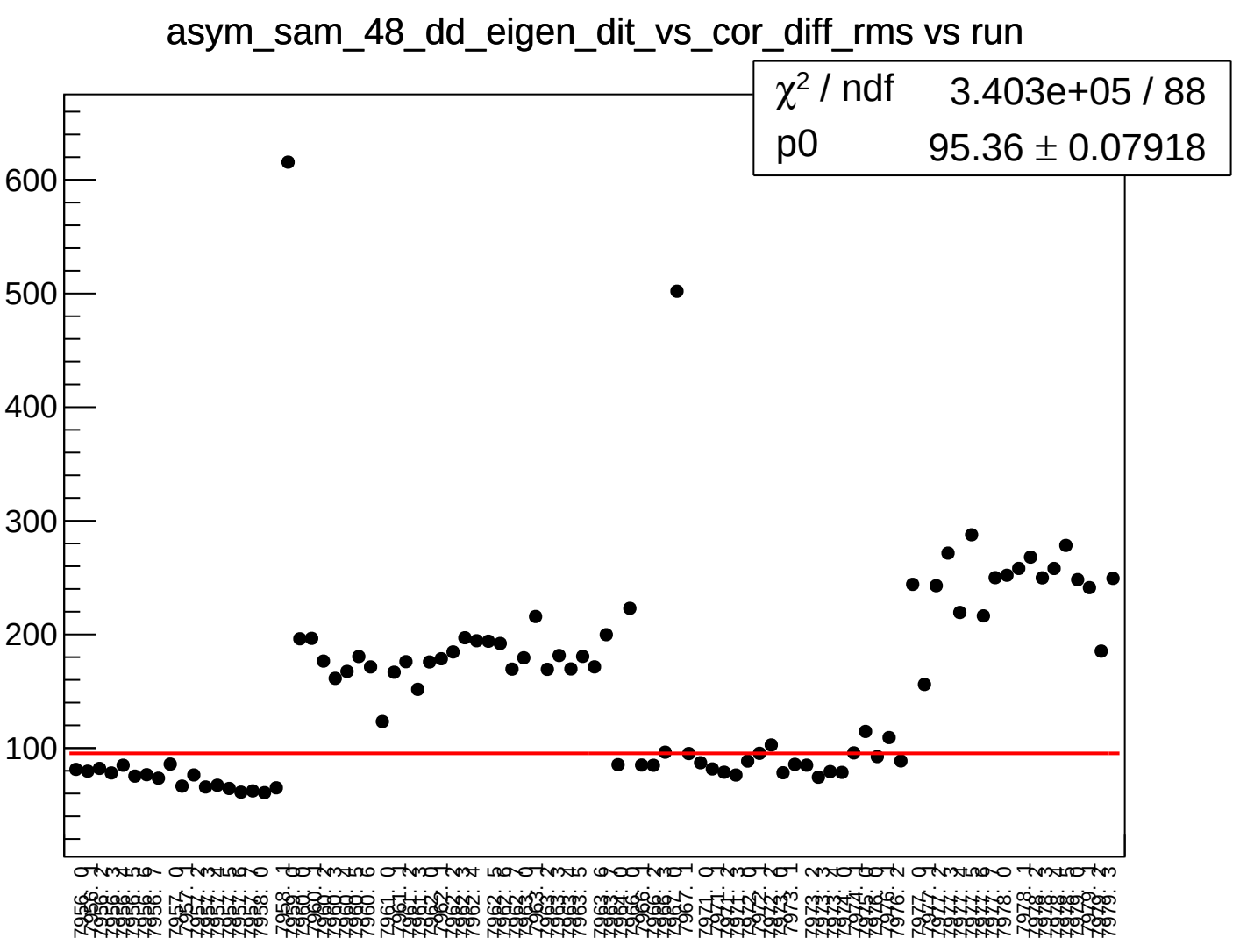

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.403e+05 / 88
p0 95.36 ± 0.07918
600
500
400
300
200
100

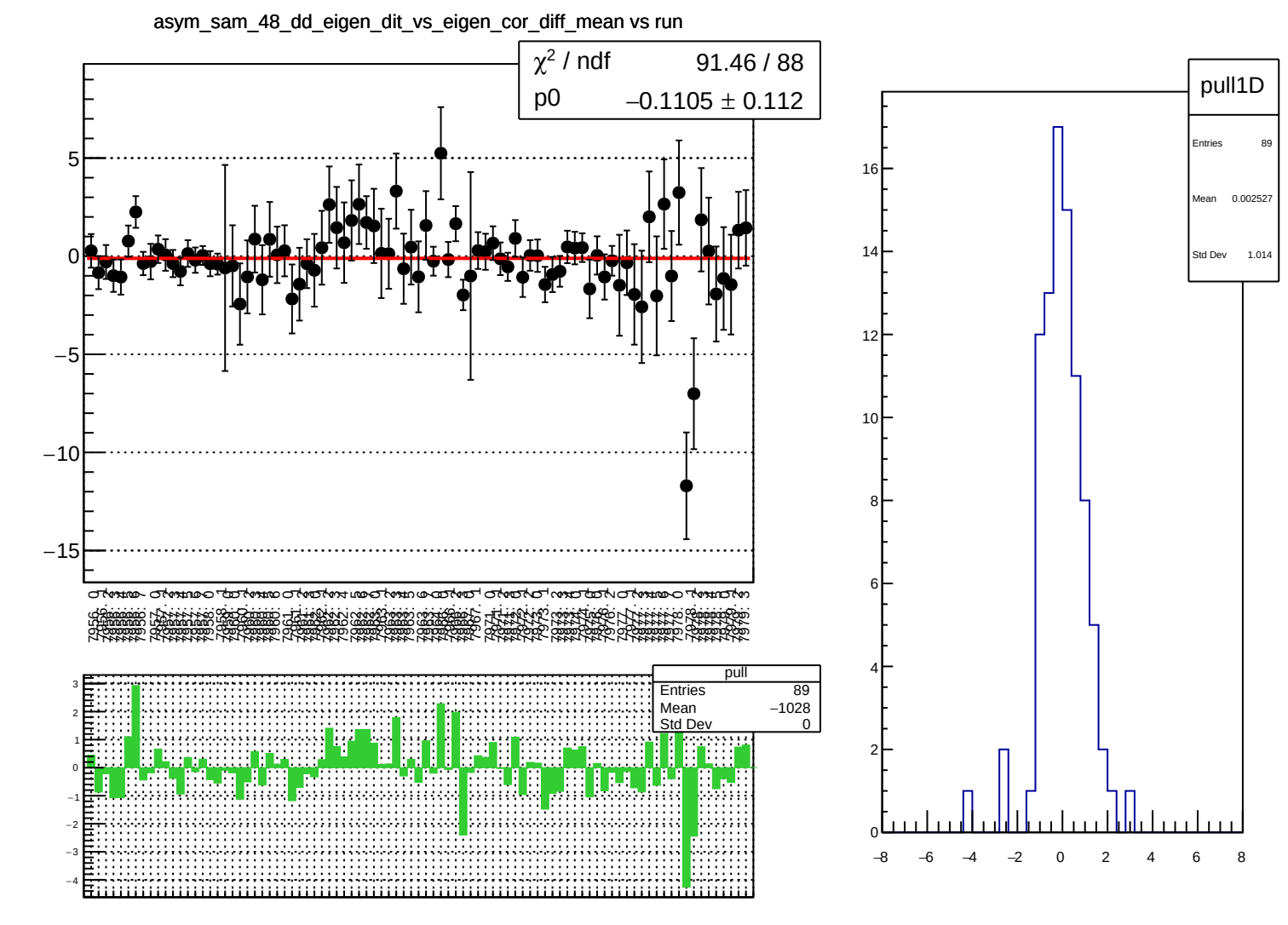

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 104.6 / 88
p0 3.961e−06 ± 5.58e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 89
Mean 110.9
Std Dev 0
2
1
0
−1
−2
−3
−4

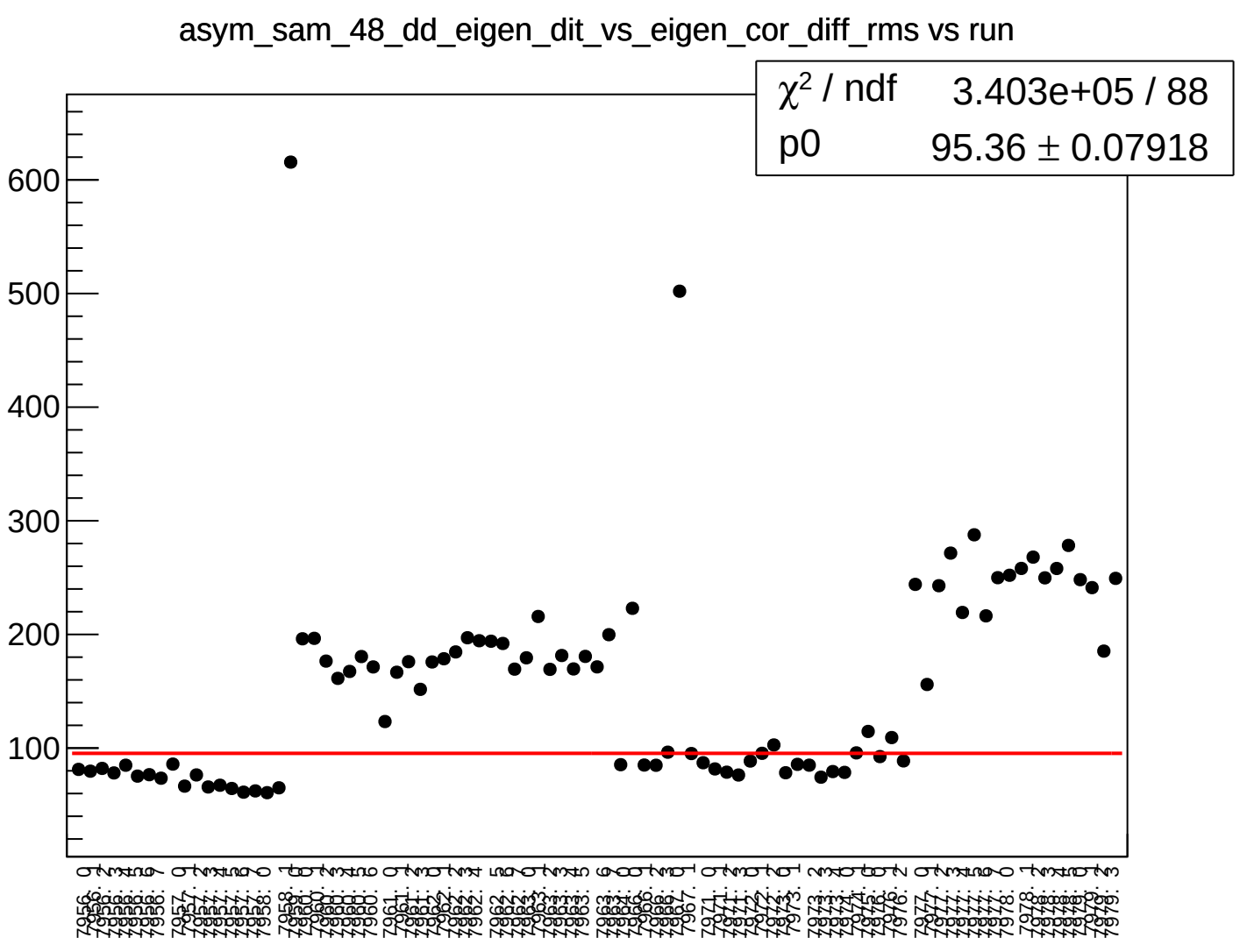

pull1D
Entries 89
Mean −0.04814
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

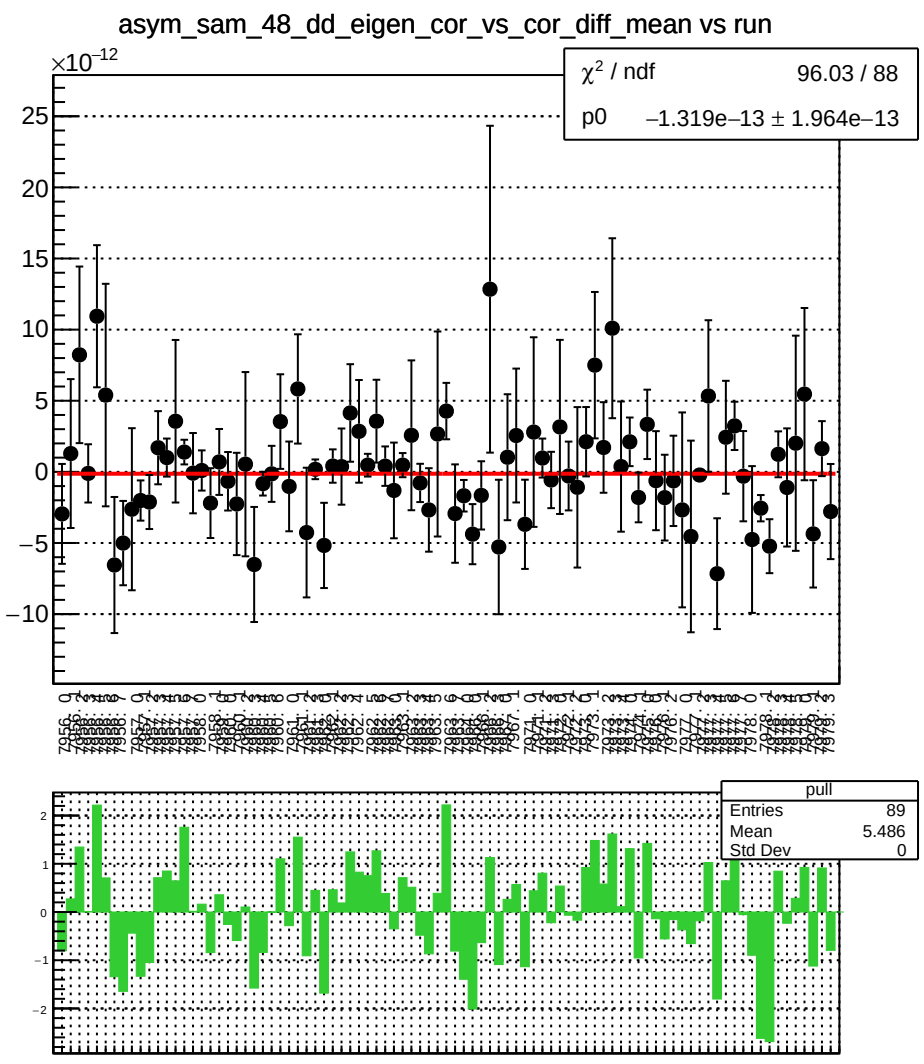

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.076e+04 / 88
p0 0.00519 ± 3.946e–06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

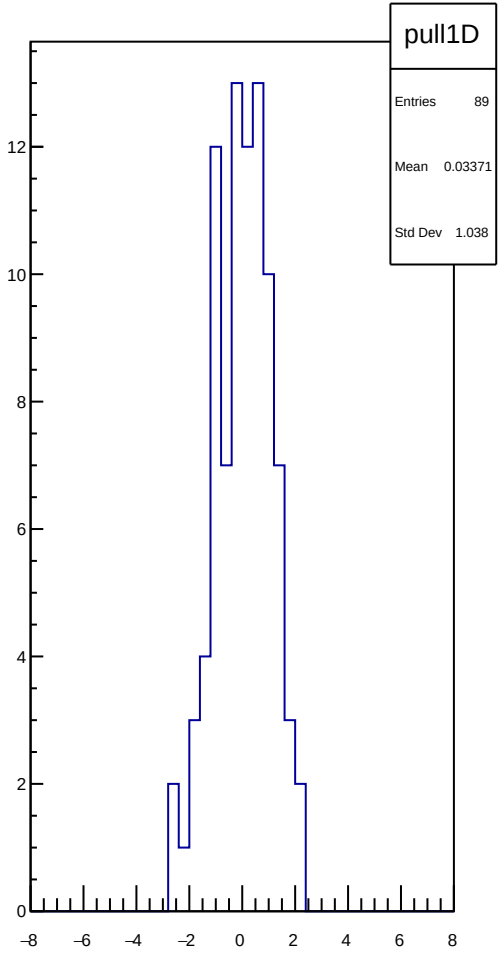

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.46 / 88
p0 −0.1105 ± 0.112
pull
Entries 89
Mean −1028
Std Dev 0
pull1D
Entries 89
Mean 0.002527
Std Dev 1.014

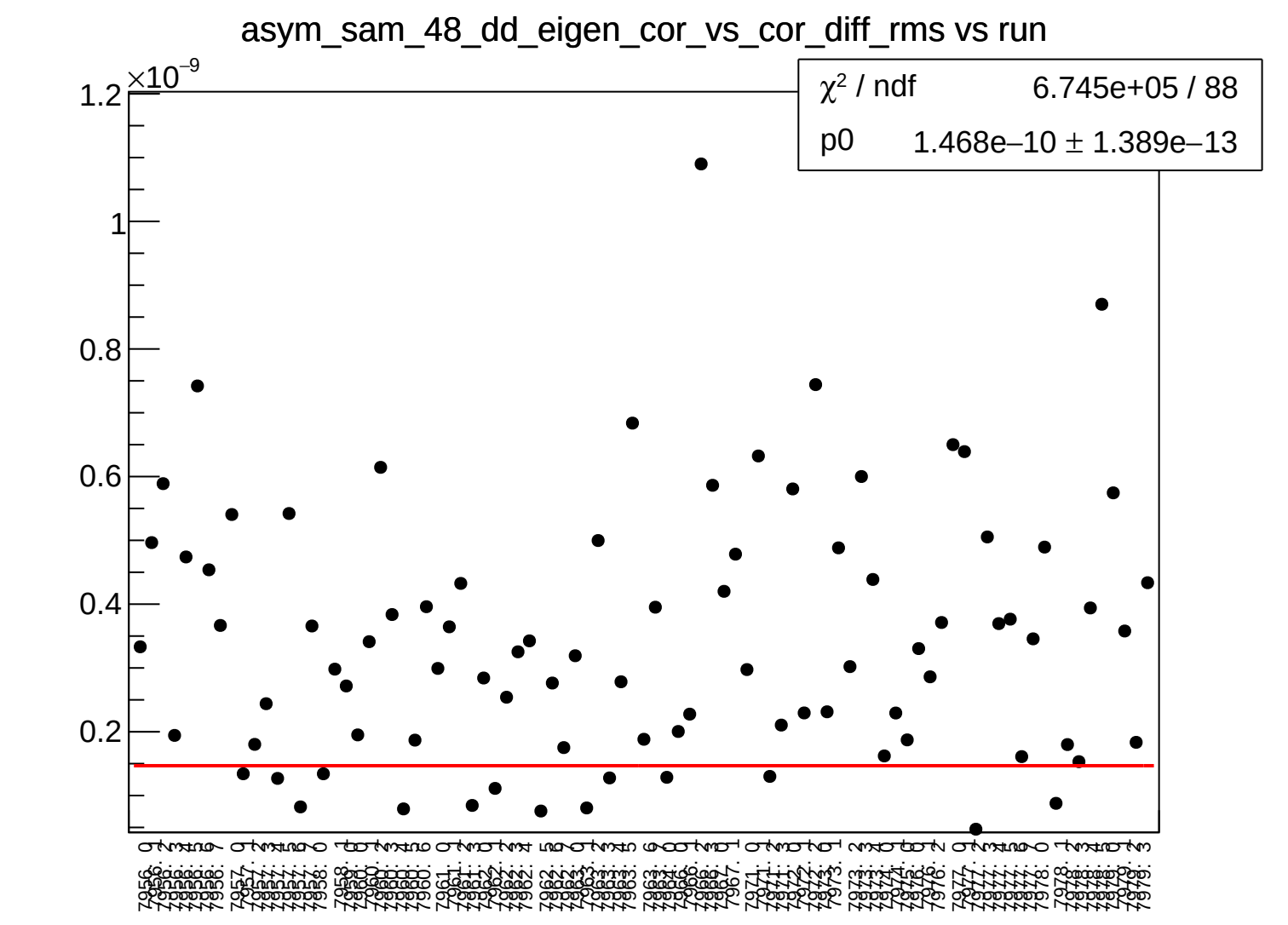

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 3.403e+05 / 88
p0 95.36 ± 0.07918
600
500
400
300
200
100

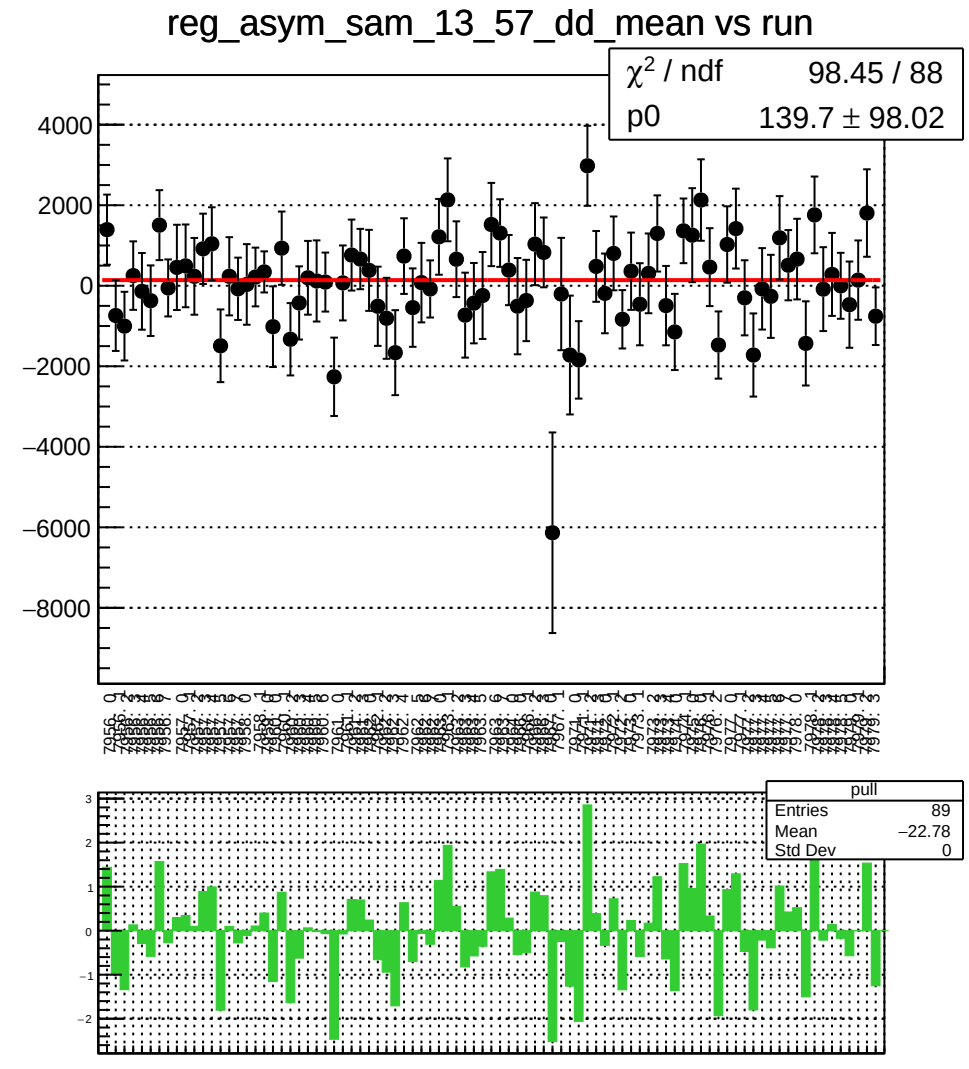

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.46 / 88
p0 −0.1105 ± 0.112
pull
Entries 89
Mean −1028
Std Dev 0
pull1D
Entries 89
Mean 0.002527
Std Dev 1.014

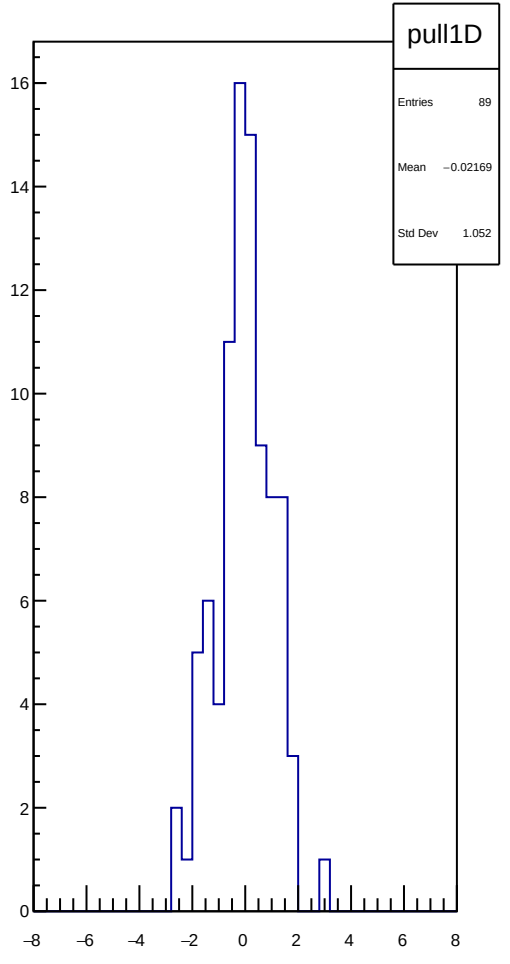

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.403e+05 / 88
p0 95.36 ± 0.07918
600
500
400
300
200
100

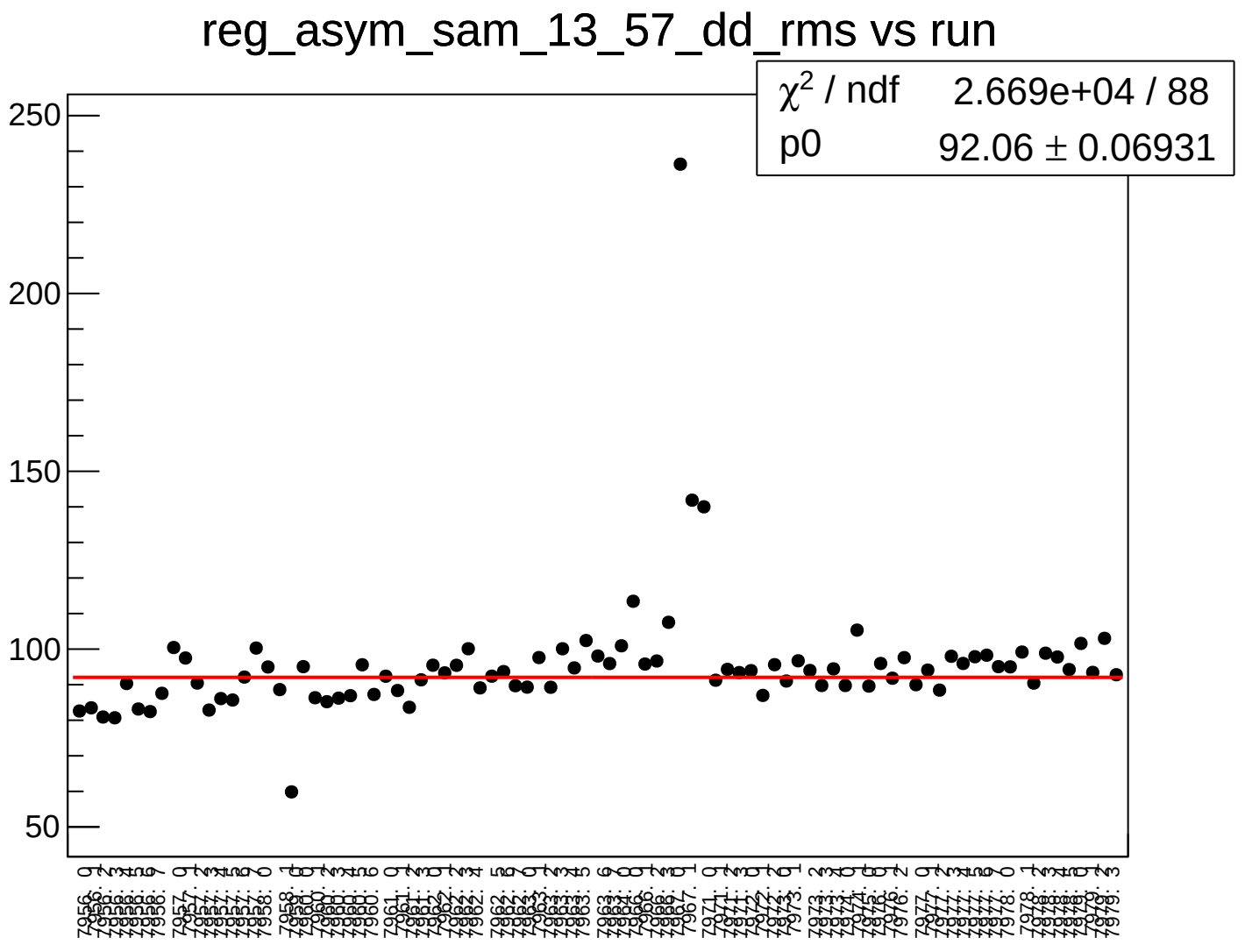

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.03 / 88
p0 −1.319e−13 ± 1.964e−13
pull
Entries 89
Mean 5.486
Std Dev 0

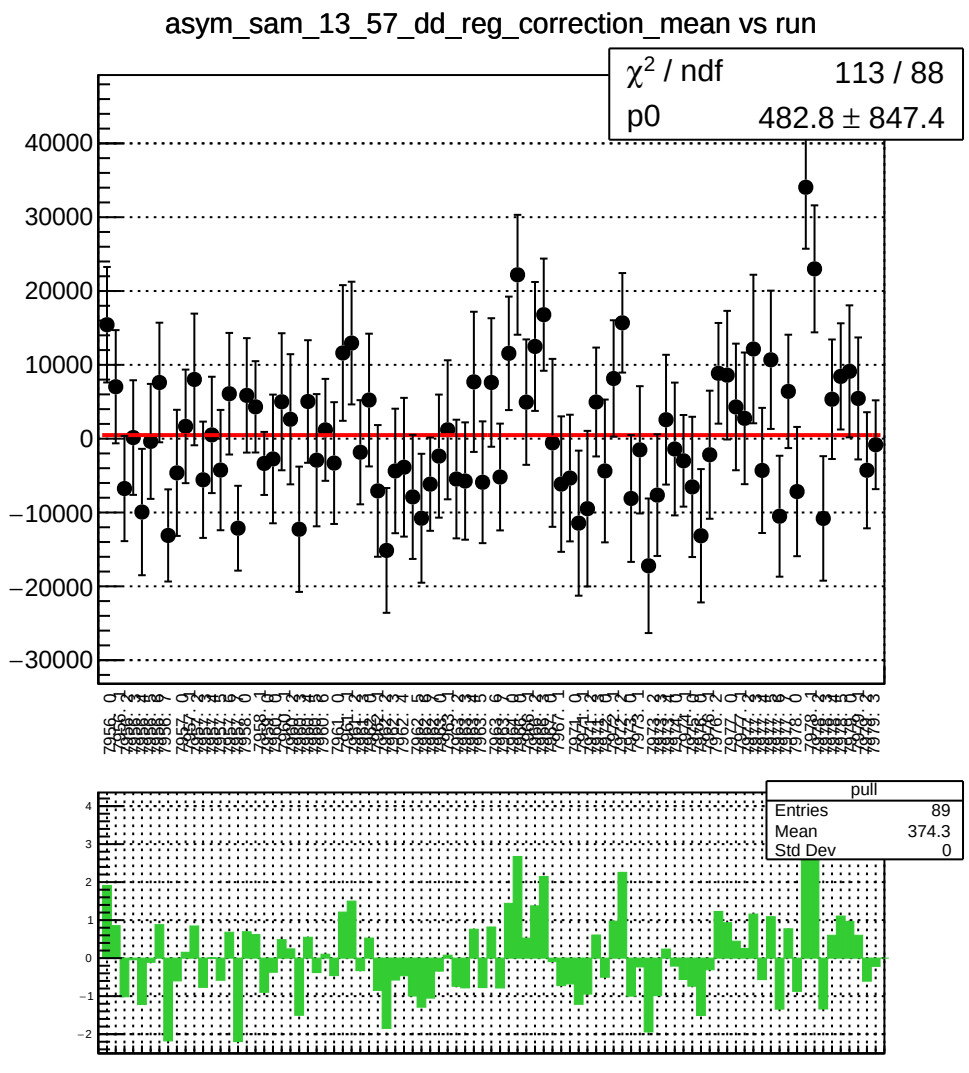

pull1D
Entries 89
Mean 0.03371
Std Dev 1.038

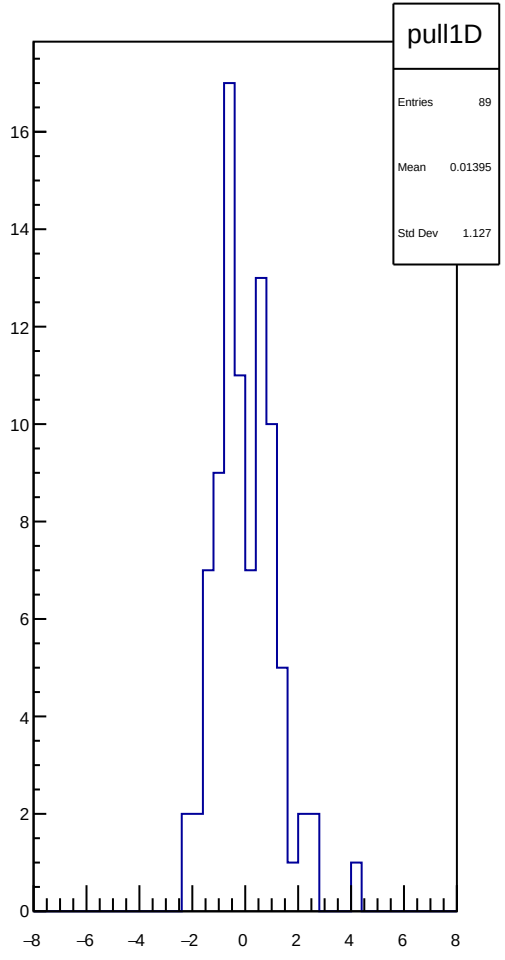

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 6.745e+05 / 88
p0 1.468e−10 ± 1.389e−13

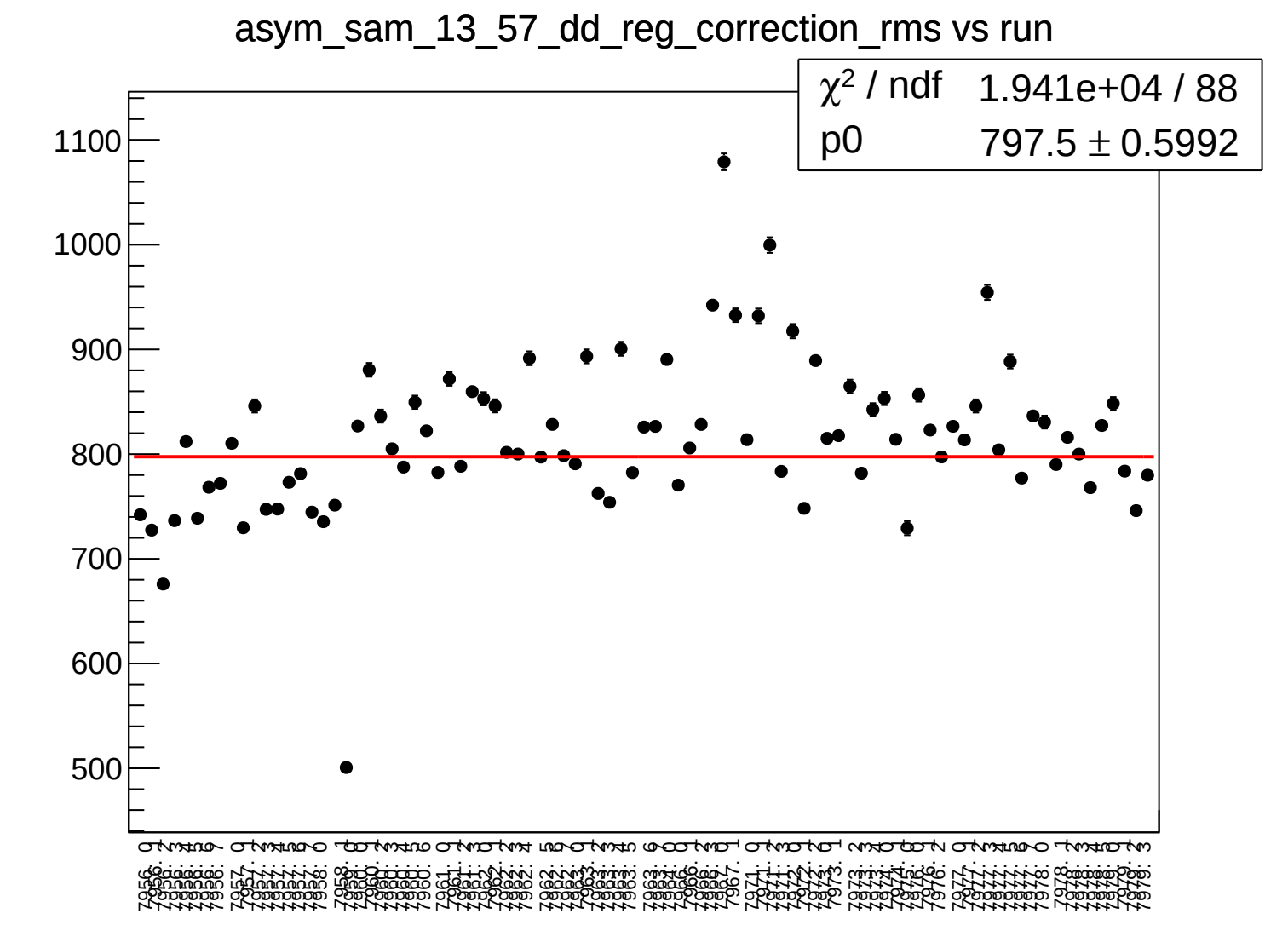

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 98.45 / 88
p0 139.7 ± 98.02
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean −22.78
Std Dev 0
3
2
1
0
−1
−2

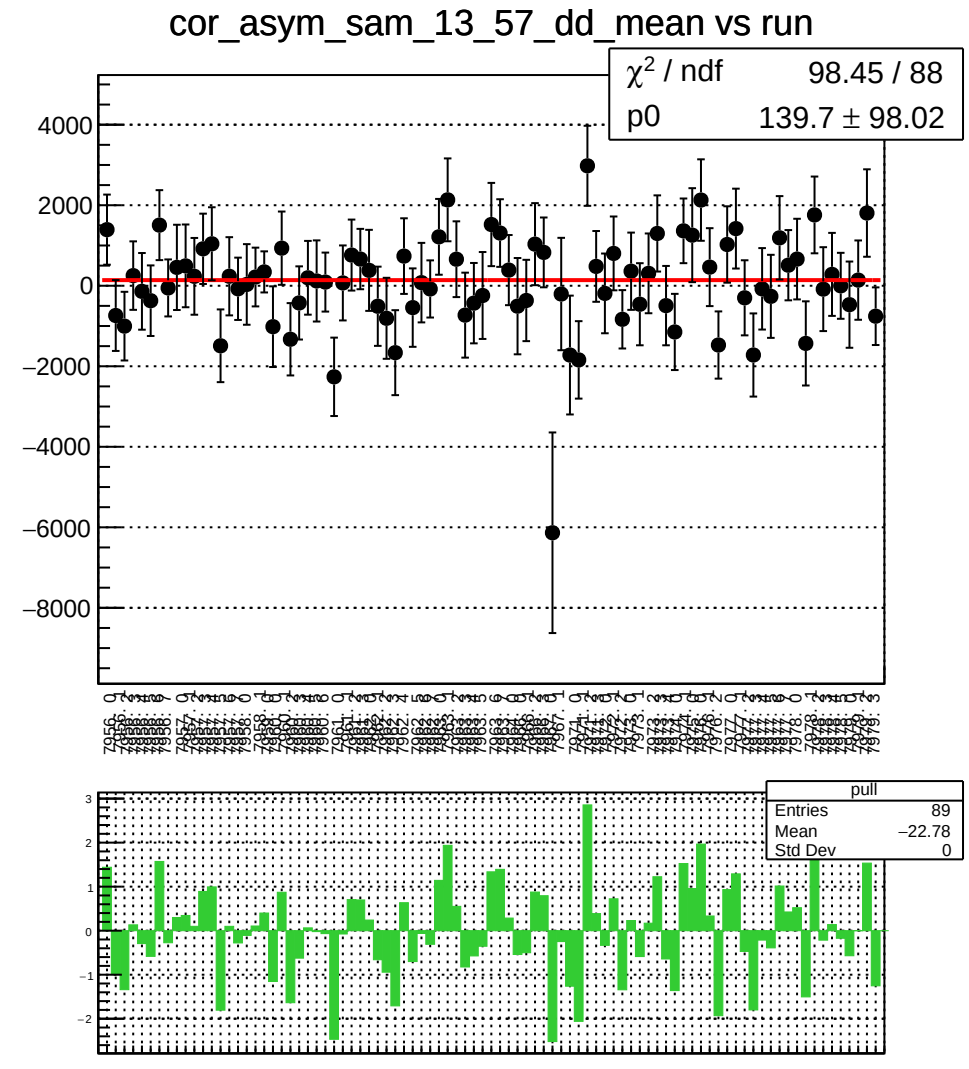

pull1D
Entries 89
Mean −0.02169
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

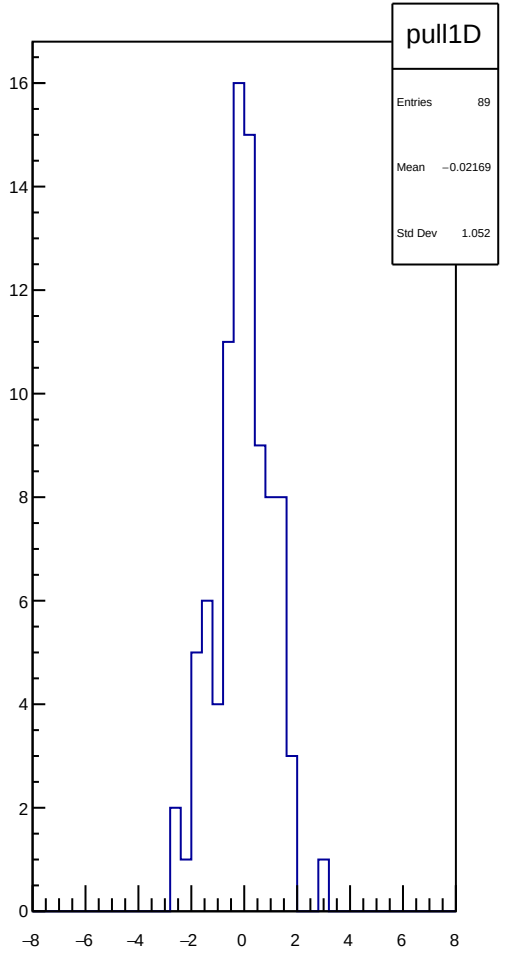

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.669e+04 / 88
p0 92.06 ± 0.06931
250
200
150
100
50

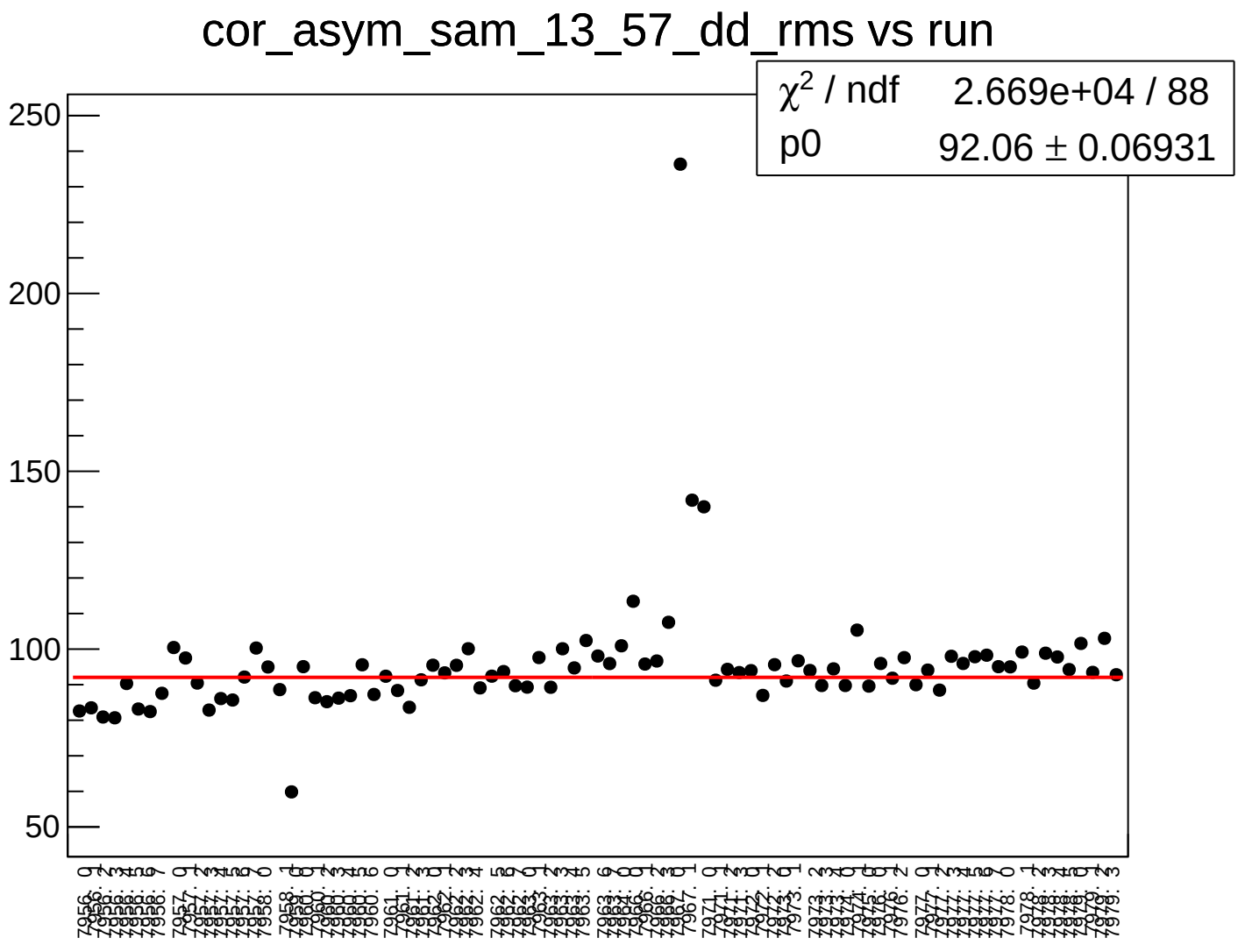

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 113 / 88
p0 482.8 ± 847.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 374.3
Std Dev 0
4
3
2
1
0
−1
−2

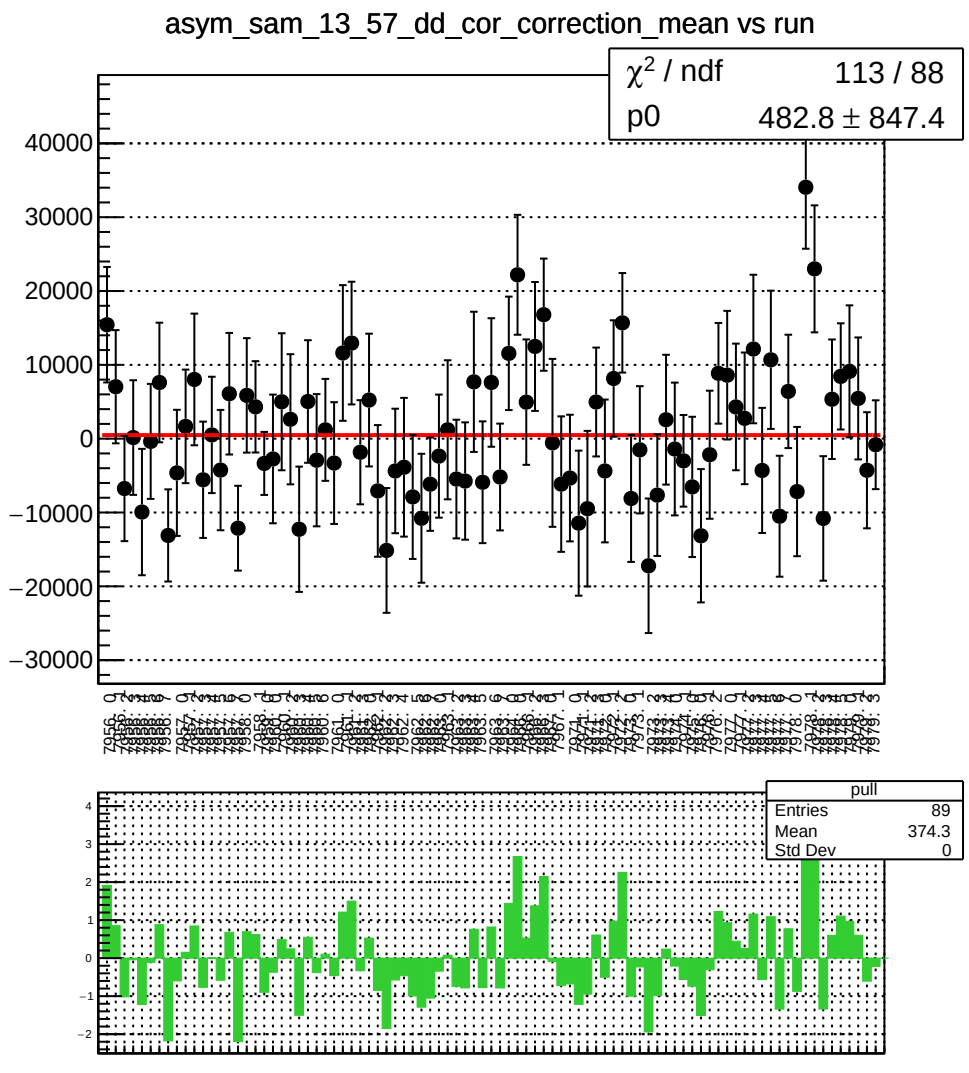

pull1D
Entries 89
Mean 0.01395
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

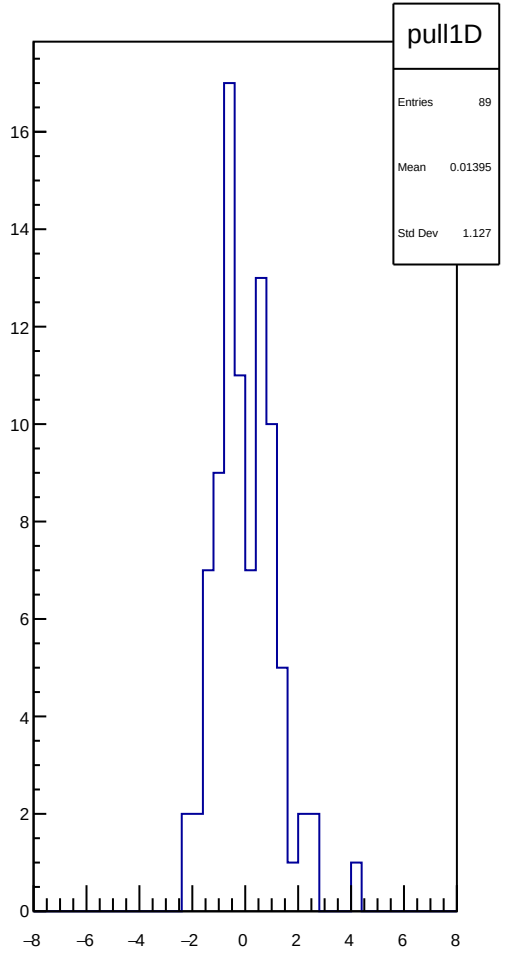

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 1.941e+04 / 88
p0 797.5 ± 0.5992
1100
1000
900
800
700
600
500

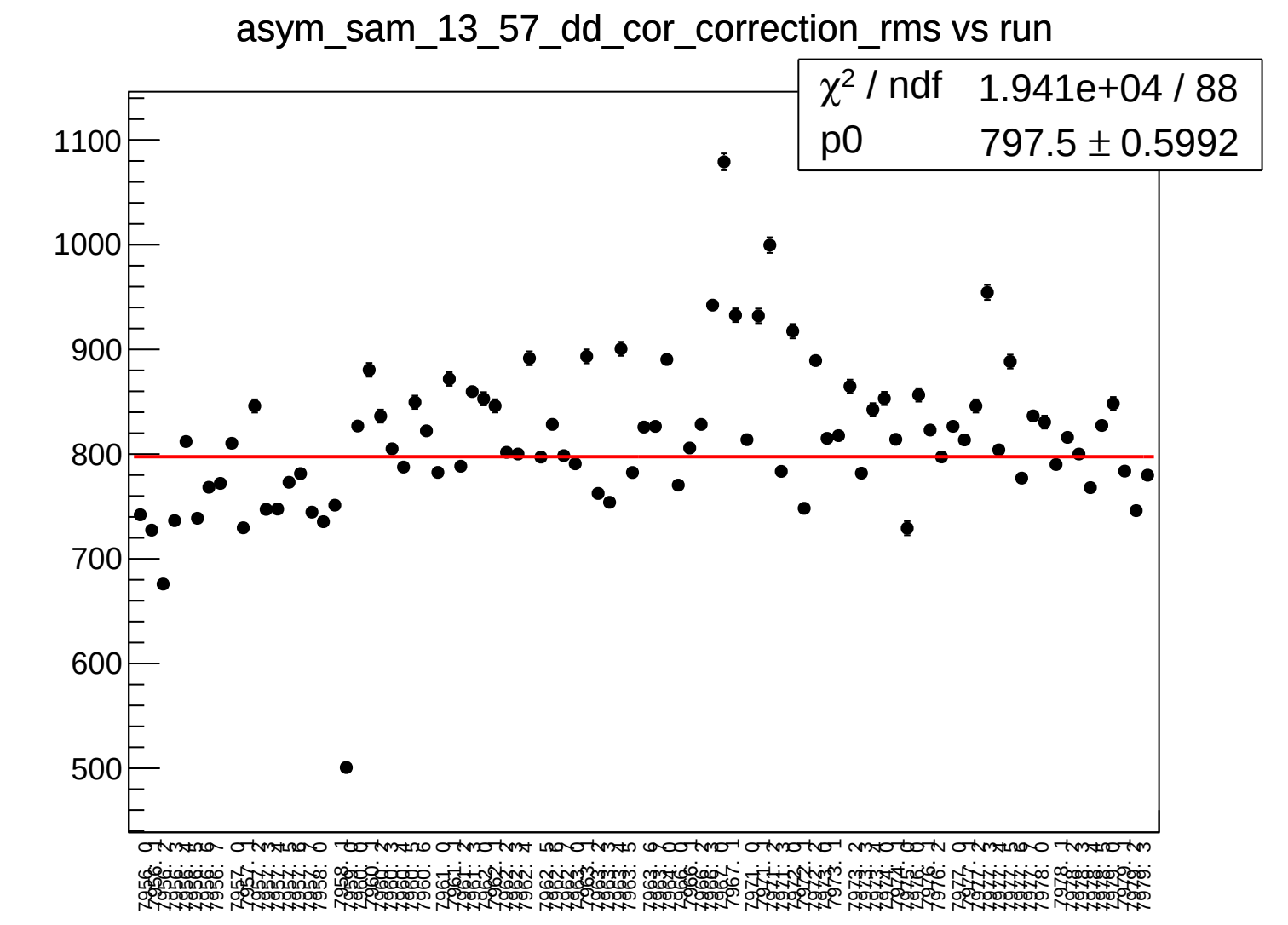

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 98.45 / 88
p0 139.7 ± 98.02
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean −22.78
Std Dev 0
3
2
1
0
−1
−2

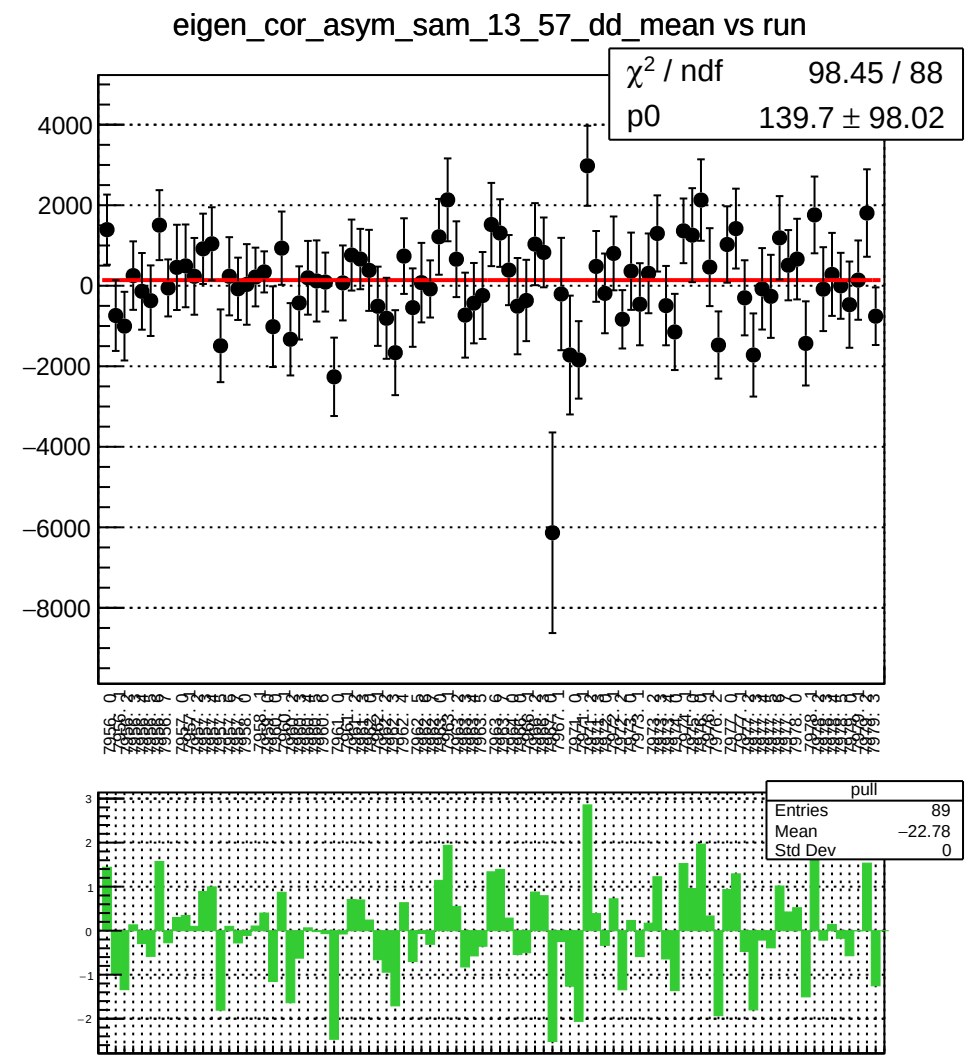

pull1D
Entries 89
Mean −0.02169
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

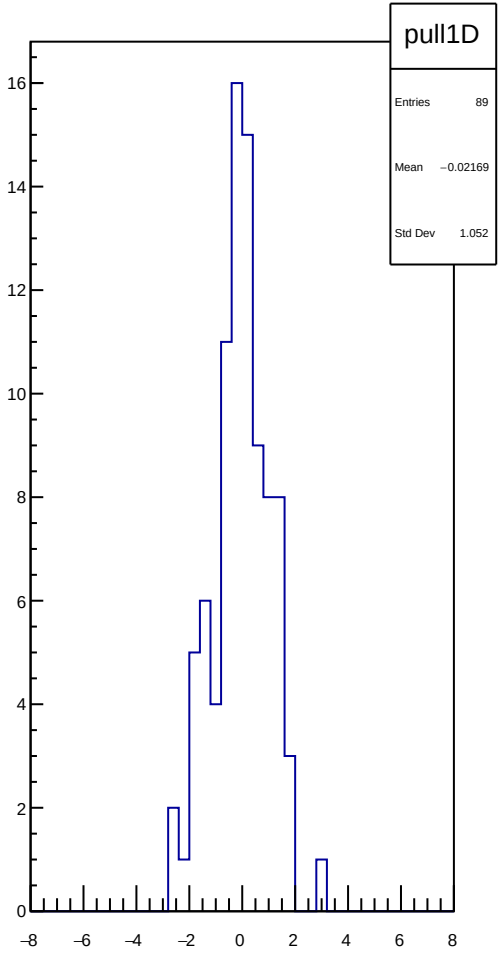

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.669e+04 / 88
p0 92.06 ± 0.06931
250
200
150
100
50

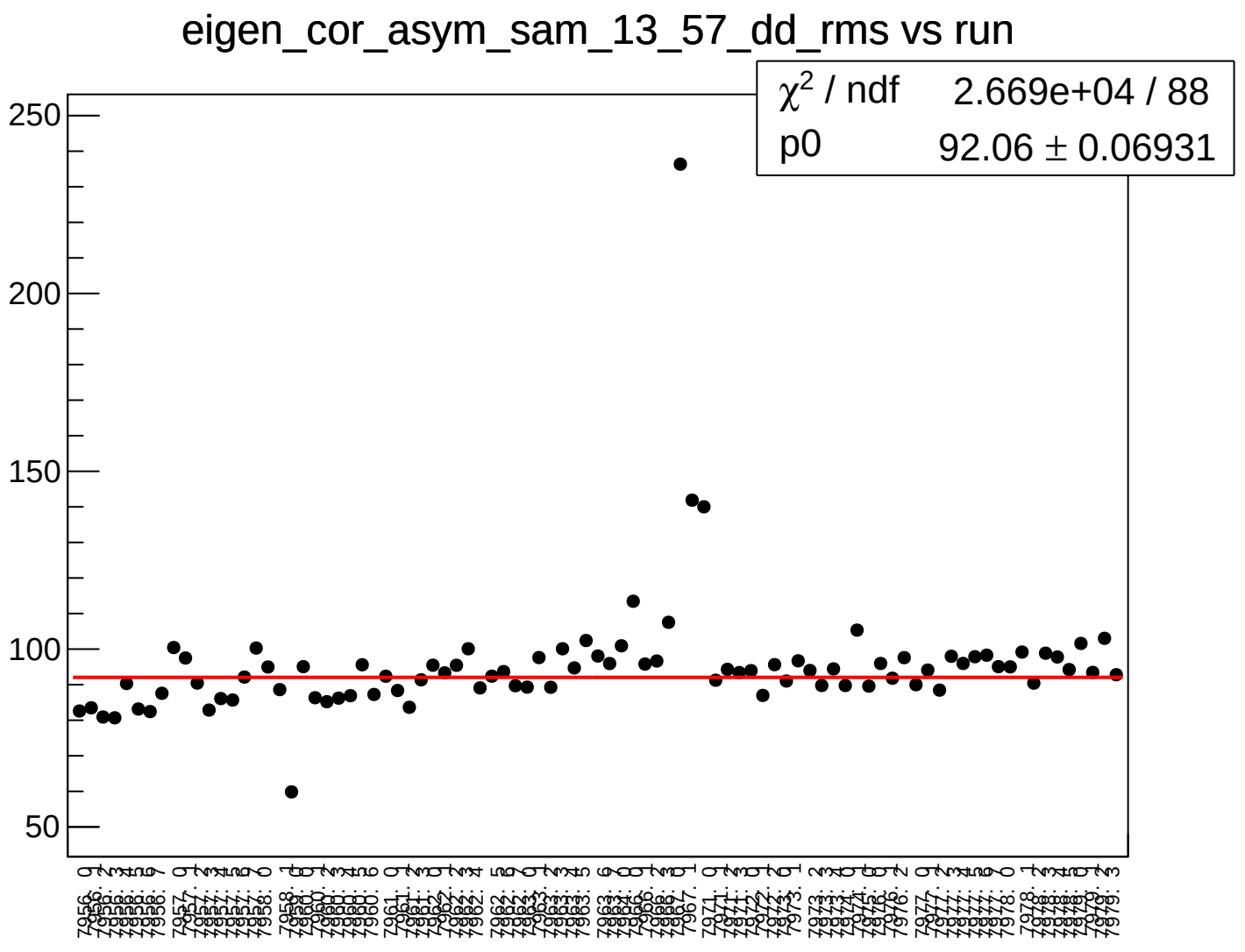

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 113 / 88
p0 482.8 ± 847.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 374.3
Std Dev 0
4
3
2
1
0
−1
−2

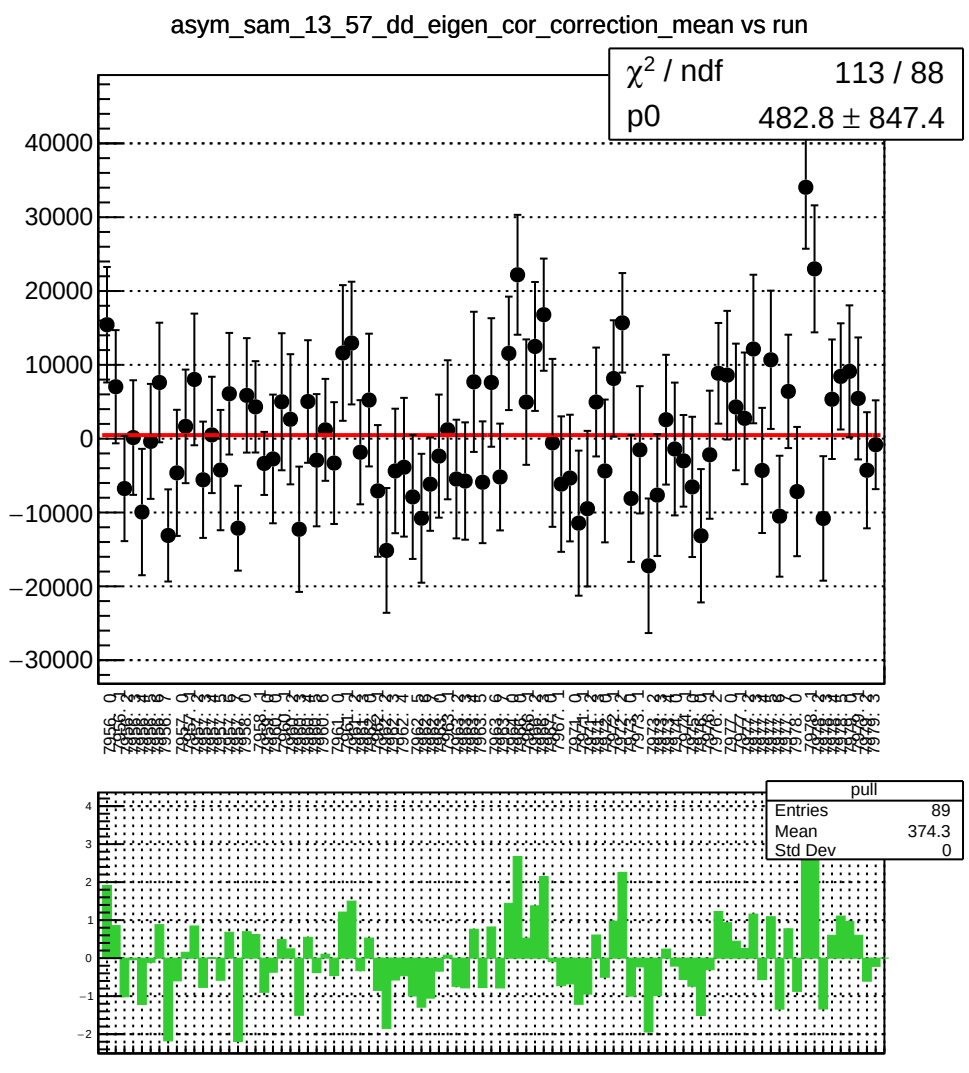

pull1D
Entries 89
Mean 0.01395
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

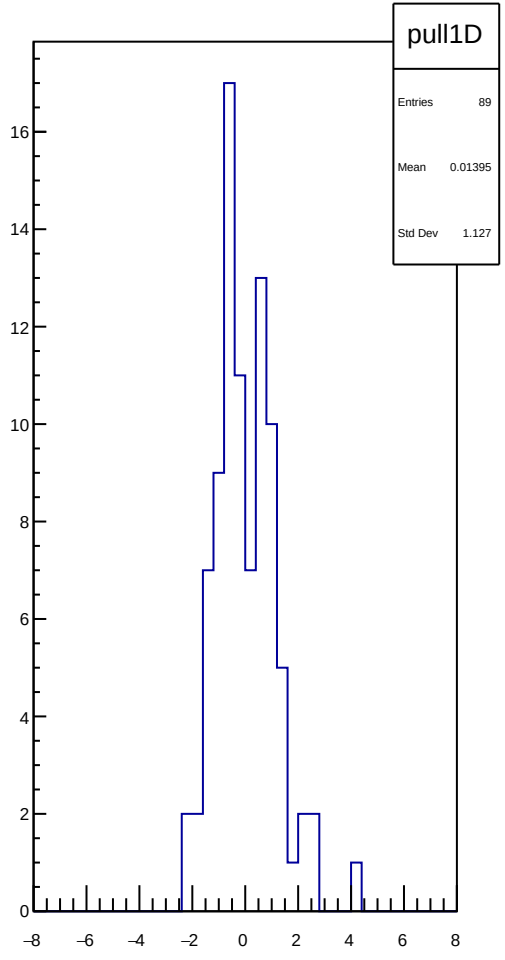

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1.941e+04 / 88
p0 797.5 ± 0.5992
1100
1000
900
800
700
600
500

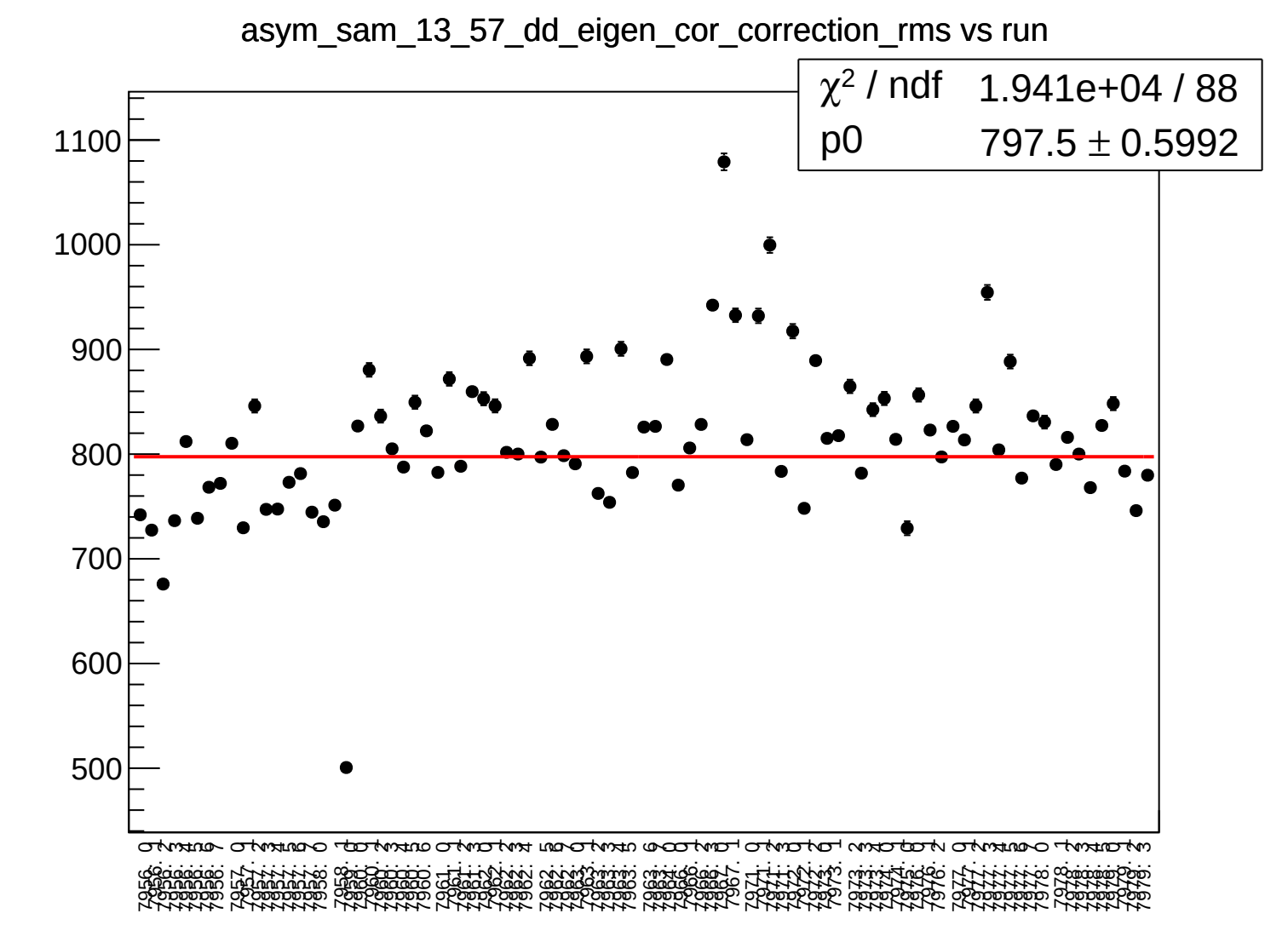

eigen_cor_asym_sam_13_57_dd_mean vs run
$\chi^2$ / ndf 98.45 / 88
p0 139.7 ± 98.02
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean −22.78
Std Dev 0
3
2
1
0
−1
−2

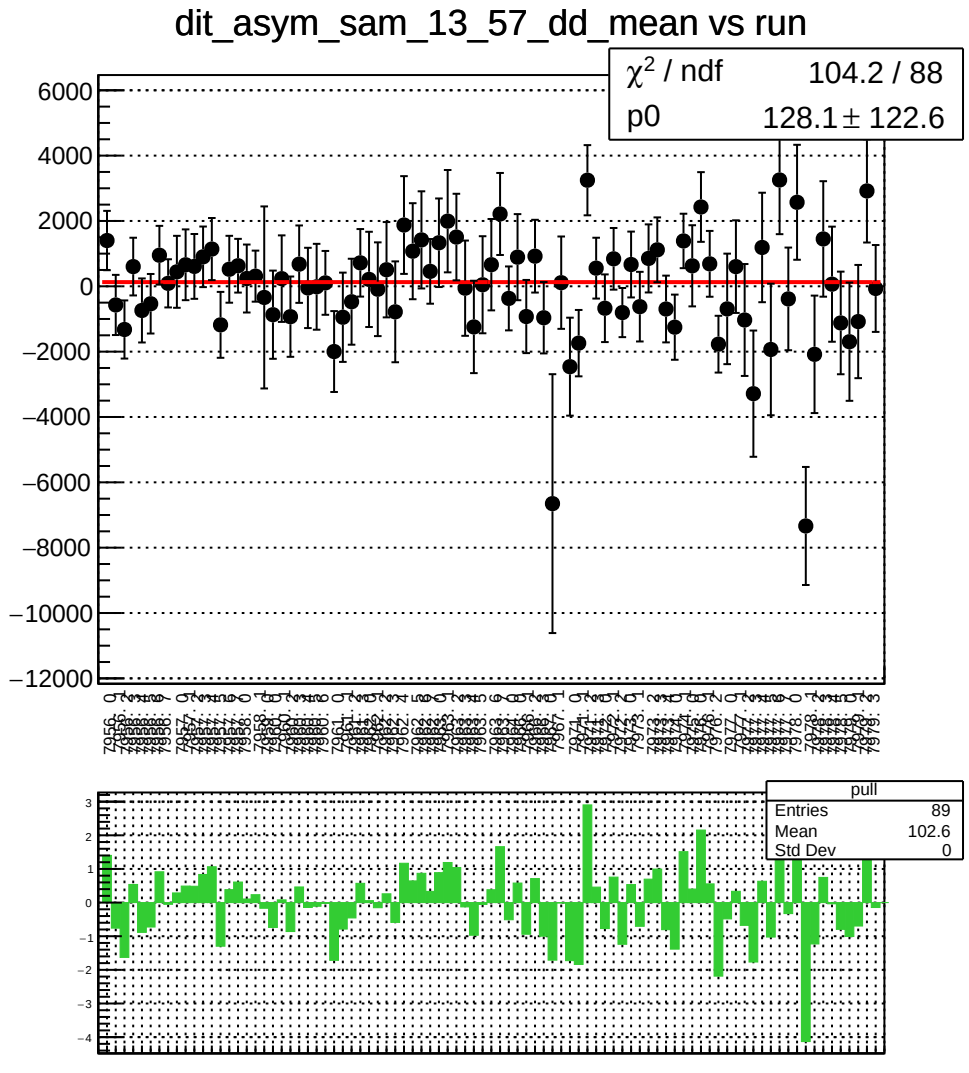

pull1D
Entries 89
Mean −0.02169
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

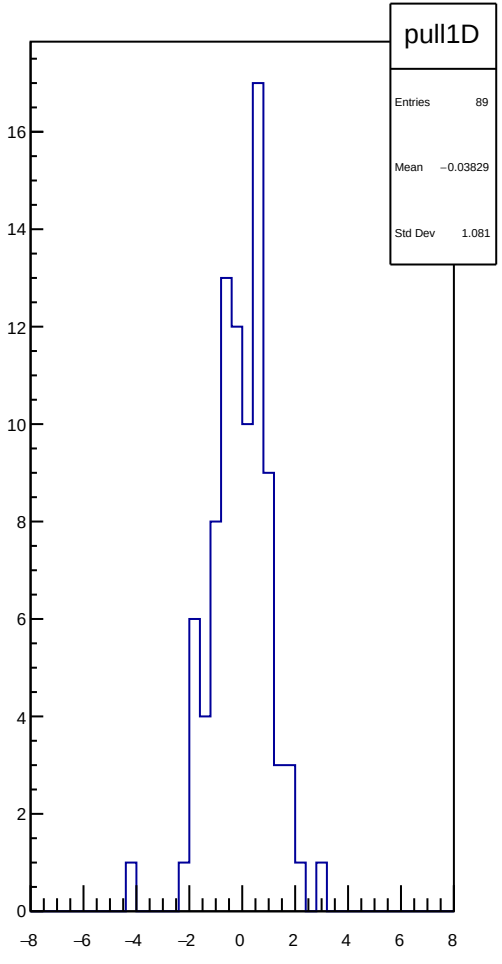

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.669e+04 / 88
p0 92.06 ± 0.06931
250
200
150
100
50

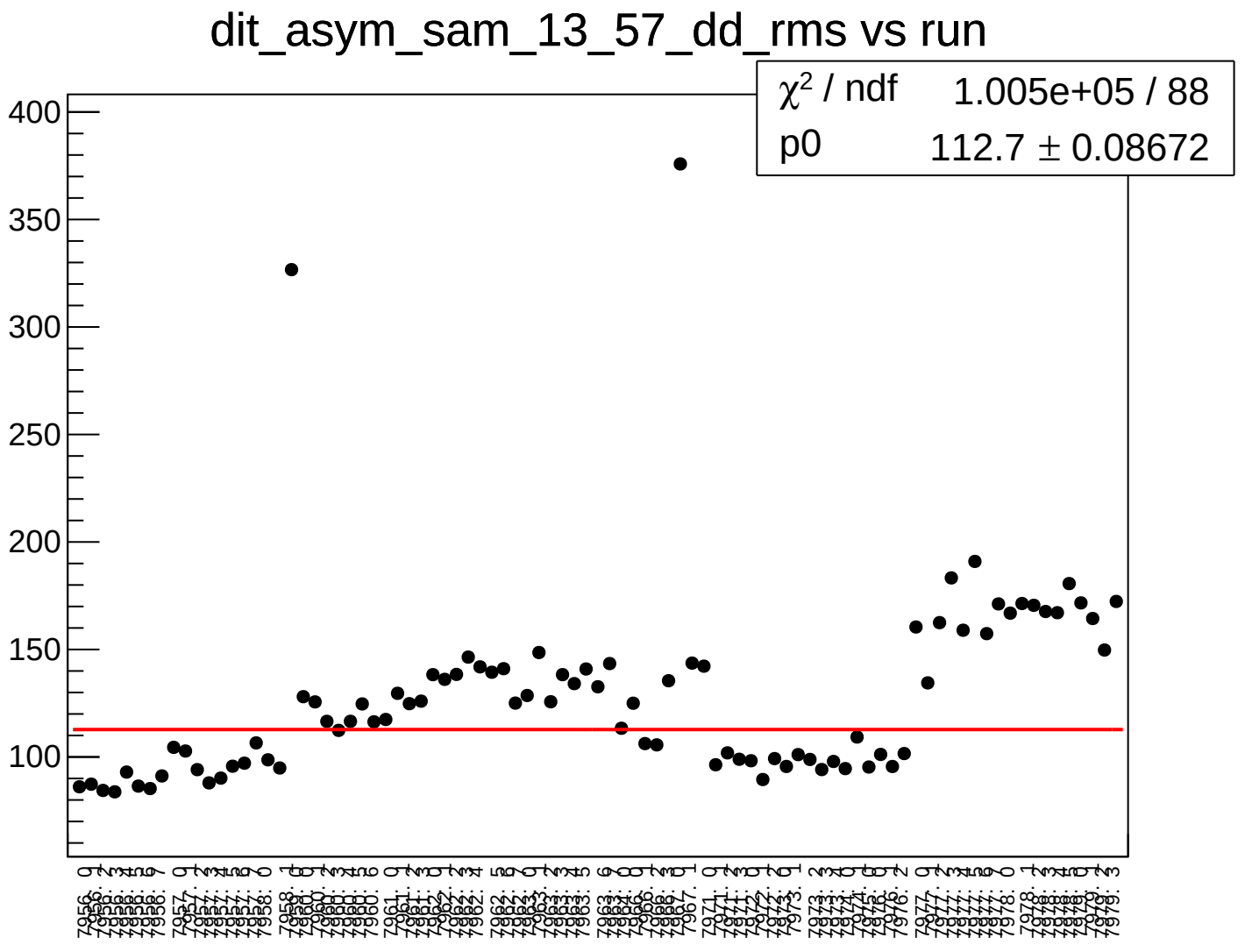

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 113 / 88
p0 482.8 ± 847.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 374.3
Std Dev 0
4
3
2
1
0
−1
−2

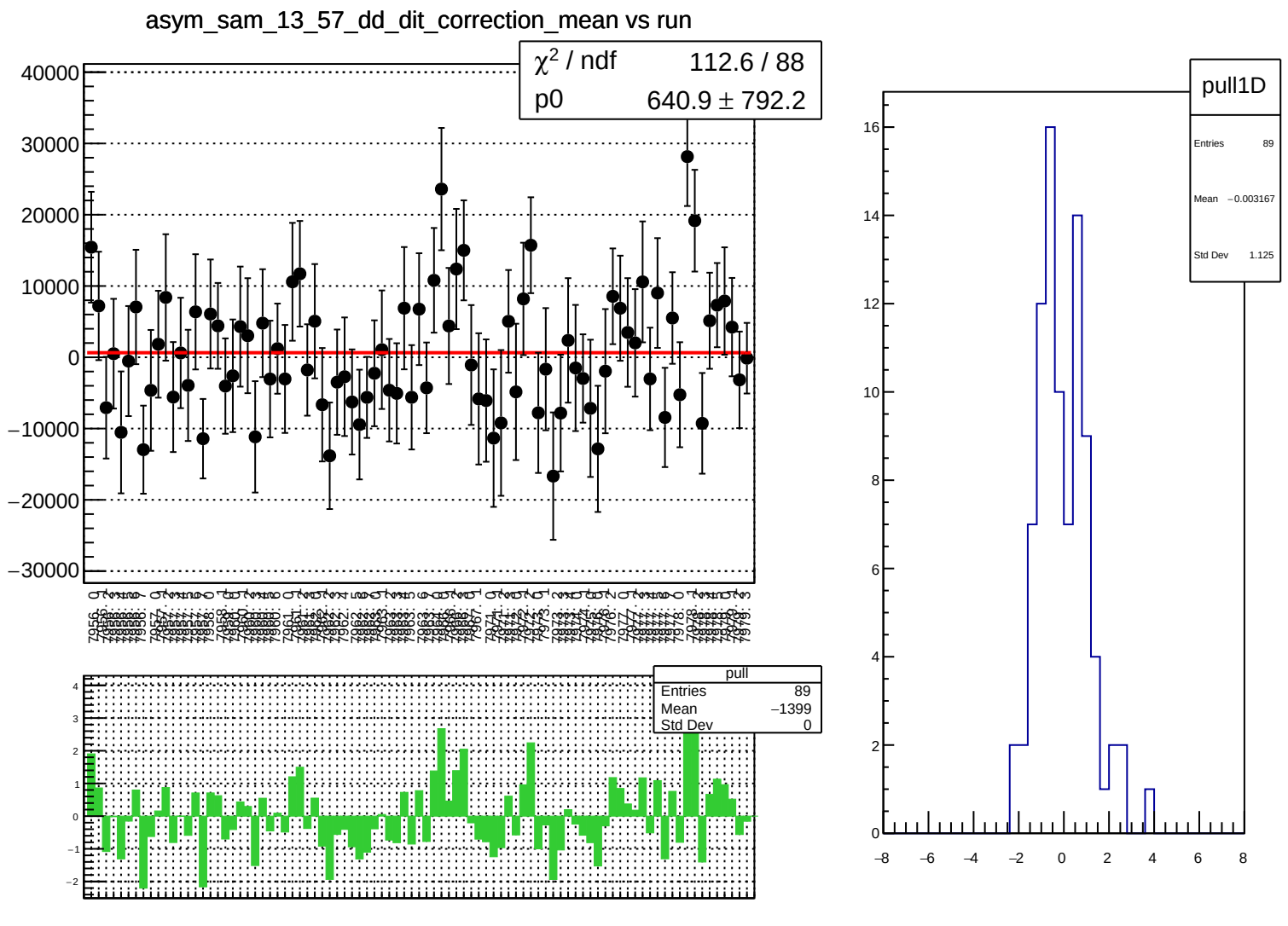

pull1D
Entries 89
Mean 0.01395
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

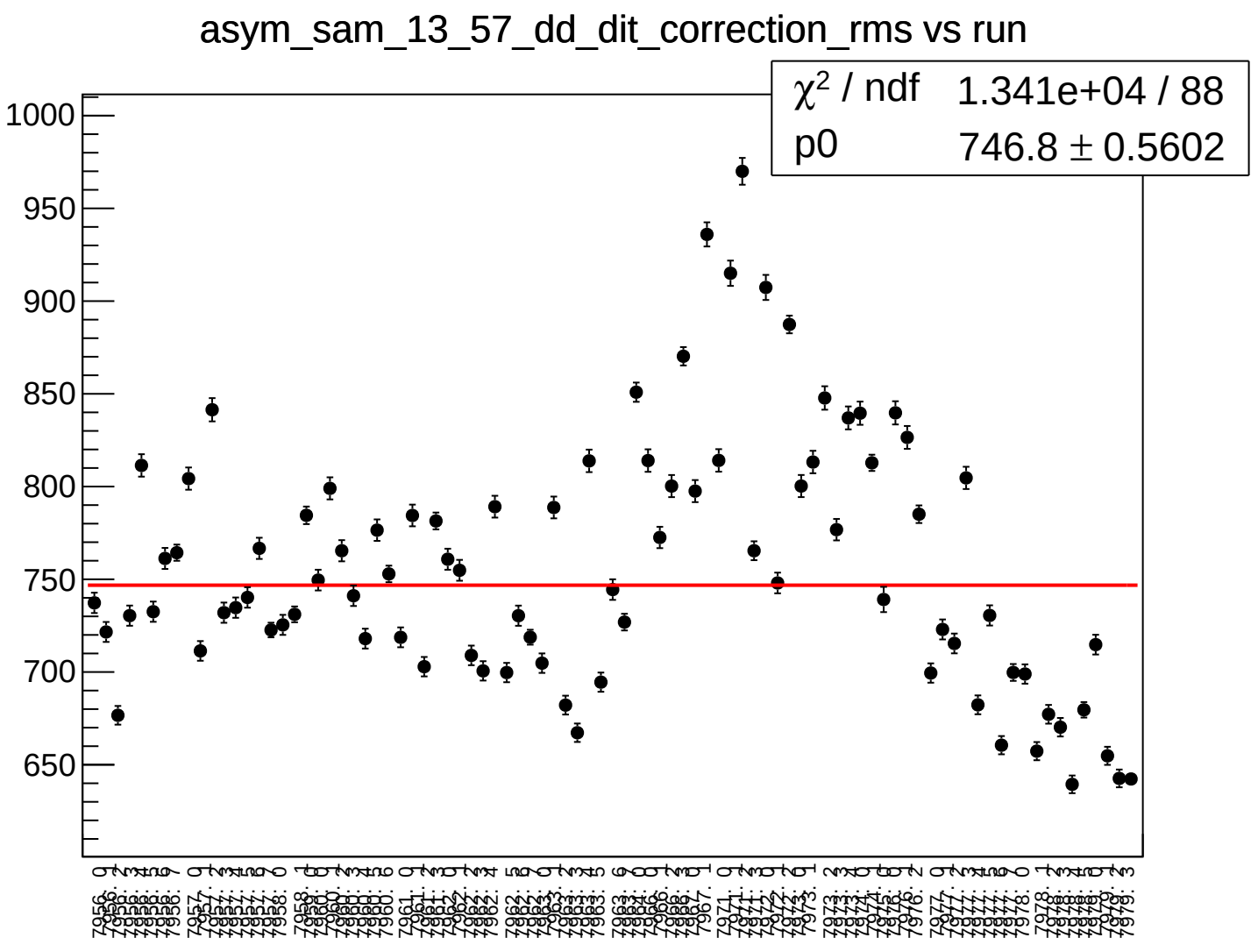

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.941e+04 / 88
p0 797.5 ± 0.5992
1100
1000
900
800
700
600
500

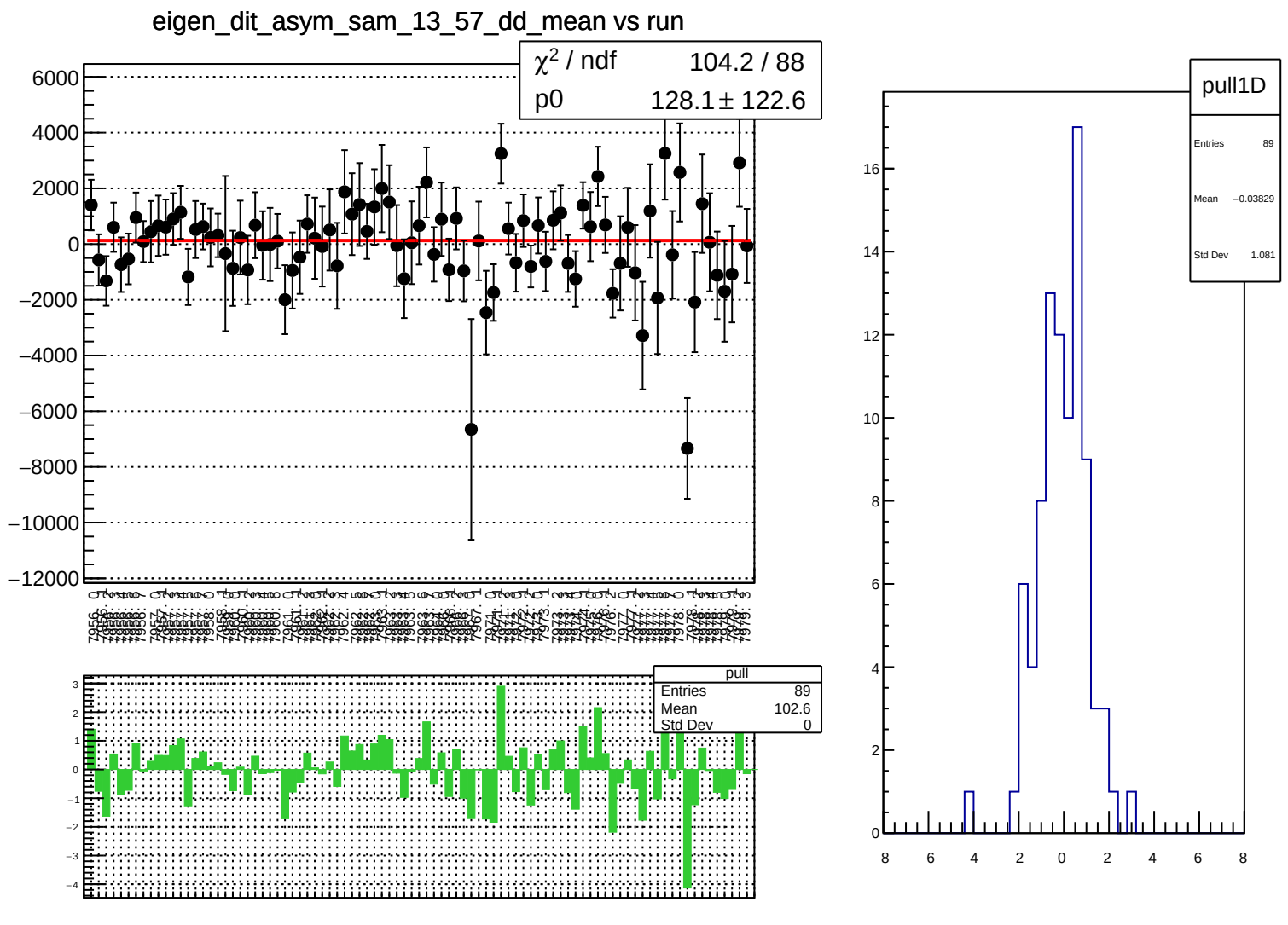

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 104.2 / 88
p0 128.1 ± 122.6
pull
Entries 89
Mean 102.6
Std Dev 0

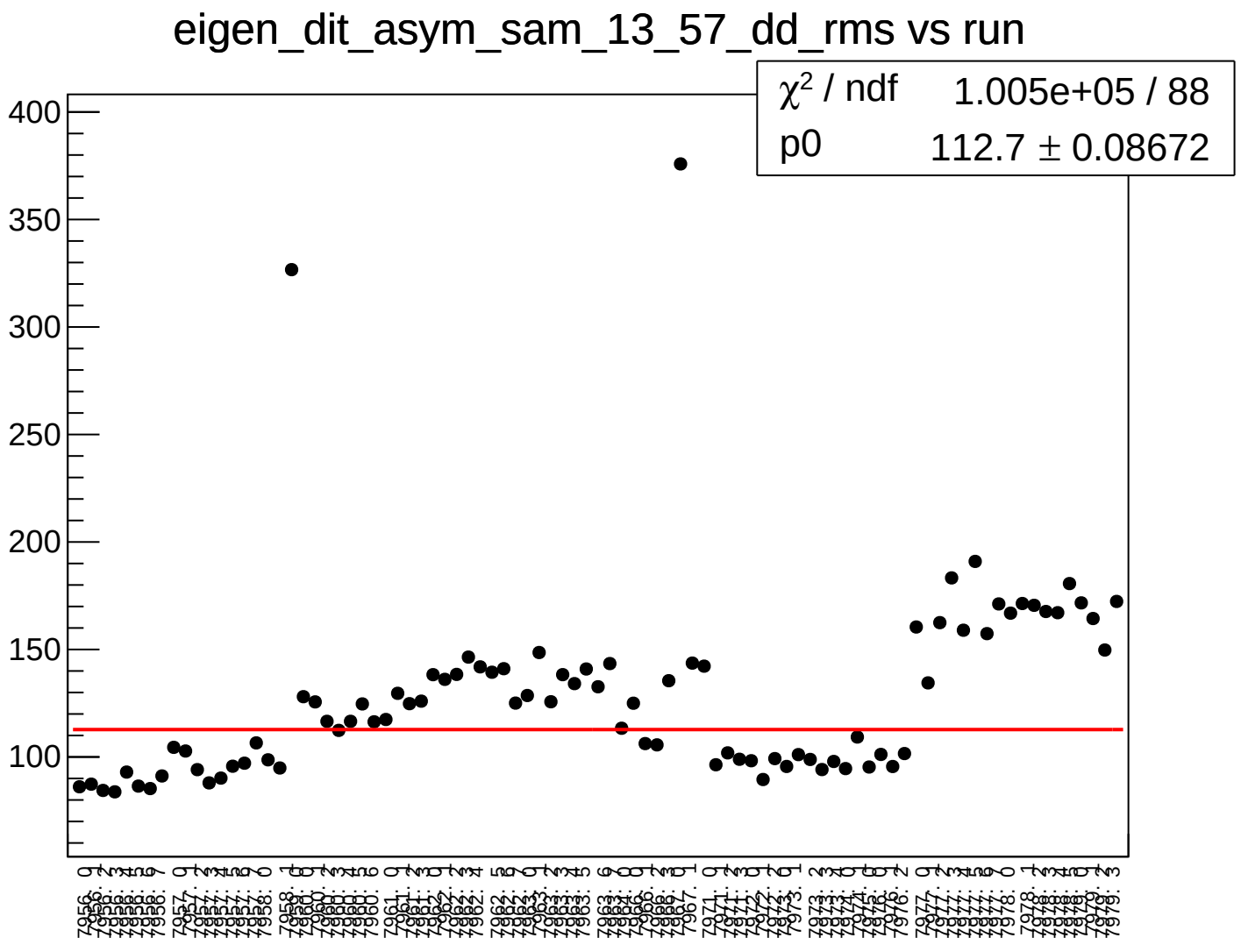

pull1D
Entries 89
Mean −0.03829
Std Dev 1.081

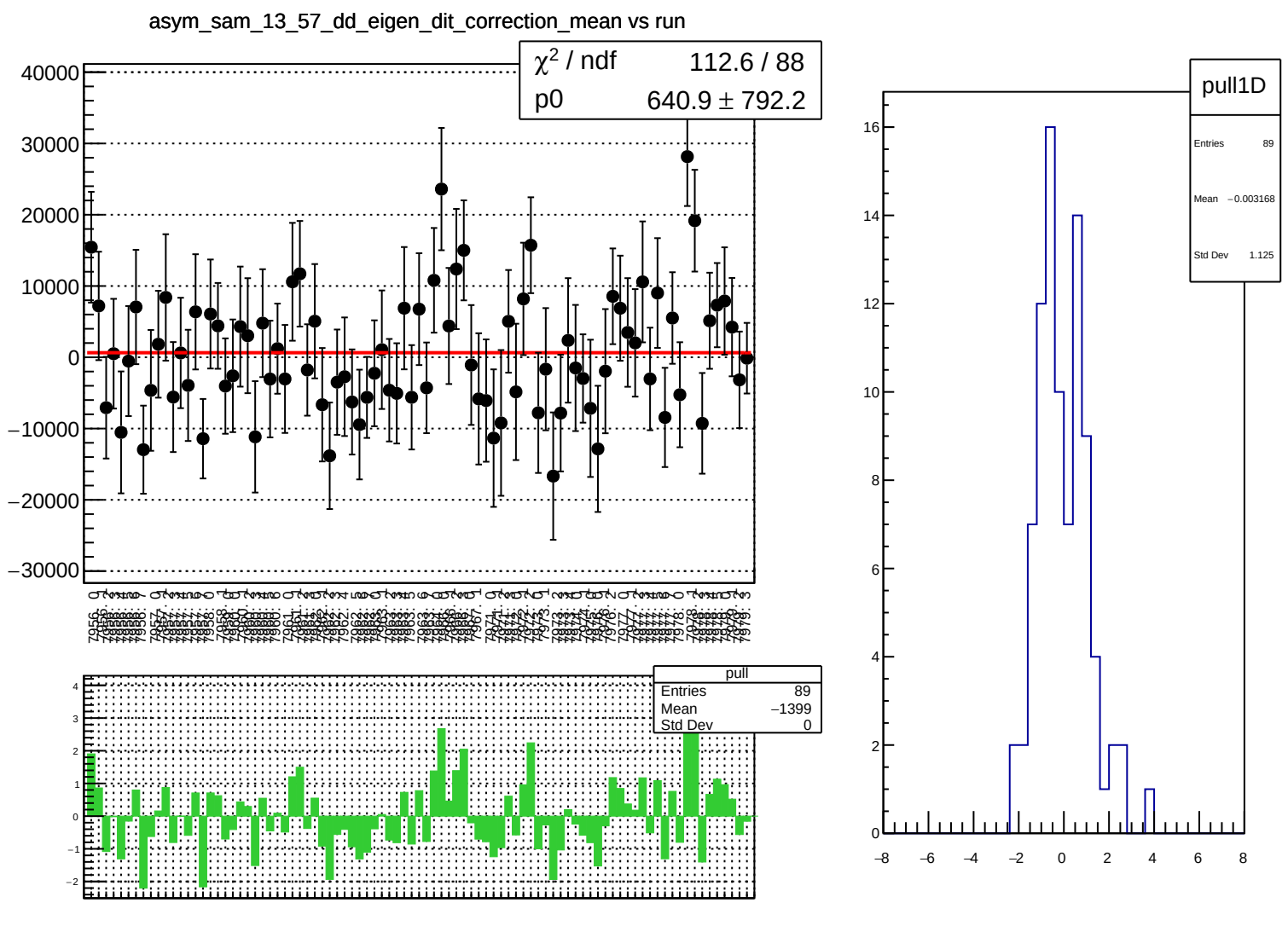

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.005e+05 / 88
p0 112.7 ± 0.08672
400
350
300
250
200
150
100

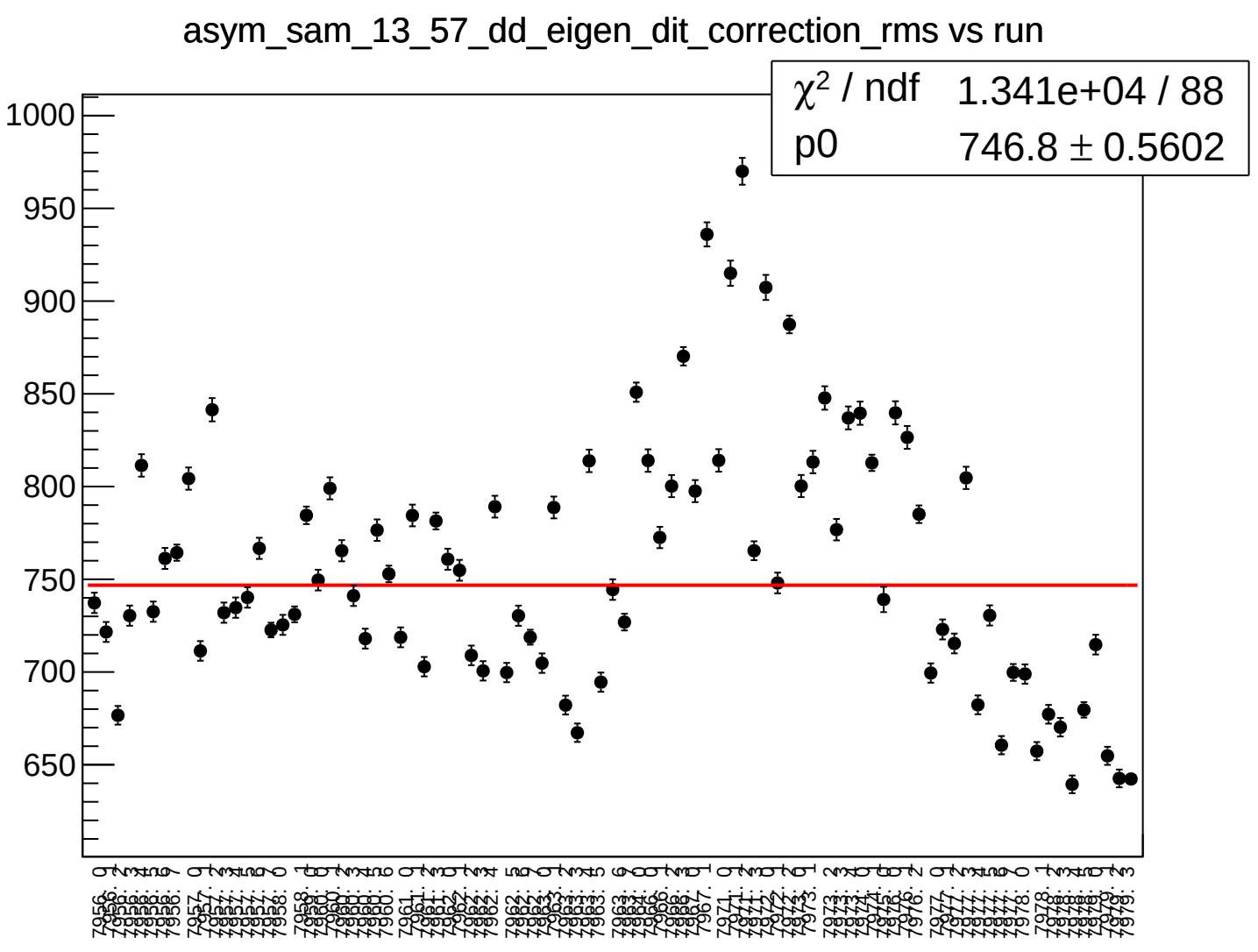

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 112.6 / 88
p0 640.9 ± 792.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1399
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.003167
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

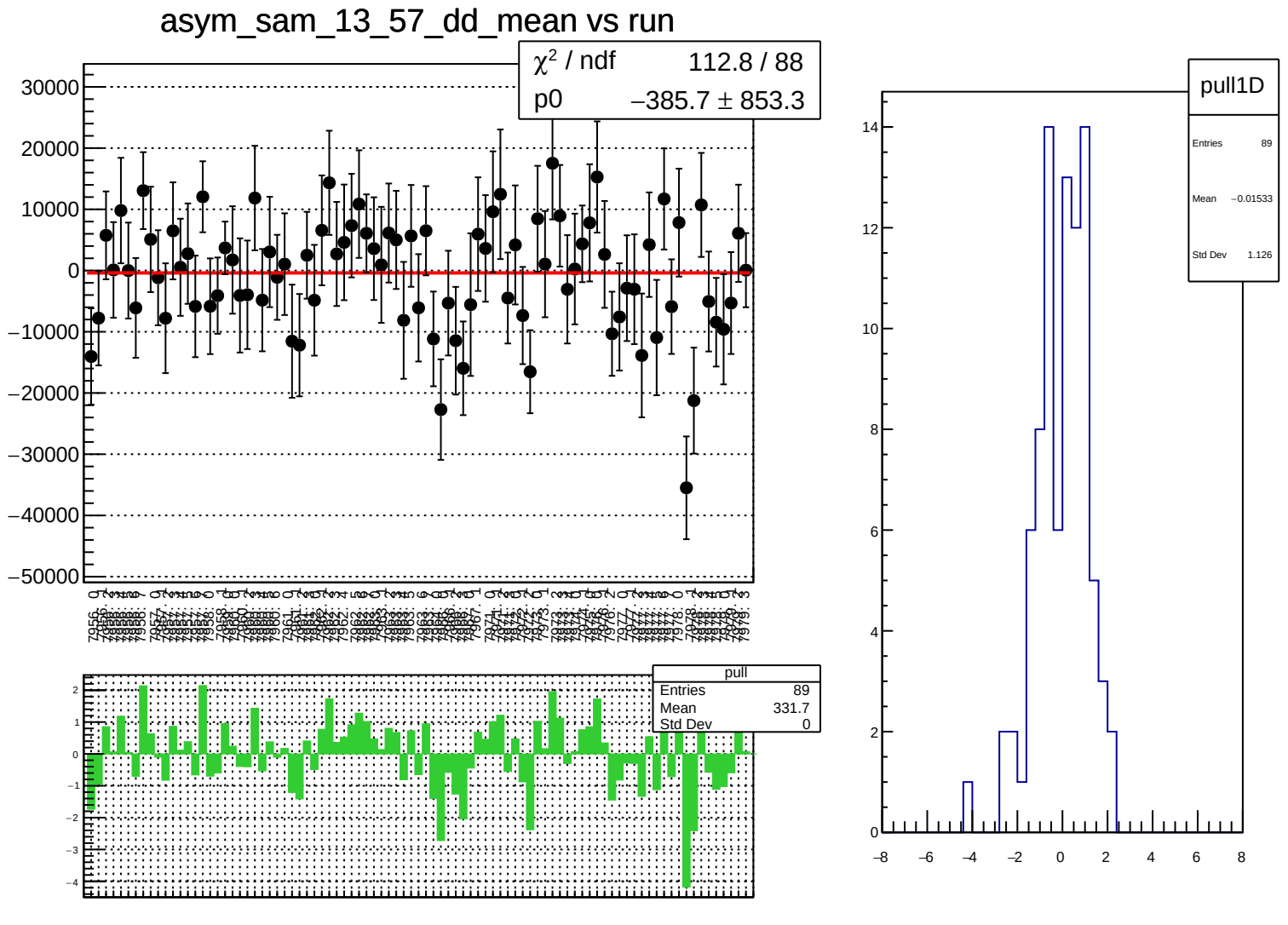

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1.341e+04 / 88
p0 746.8 ± 0.5602
1000
950
900
850
800
750
700
650

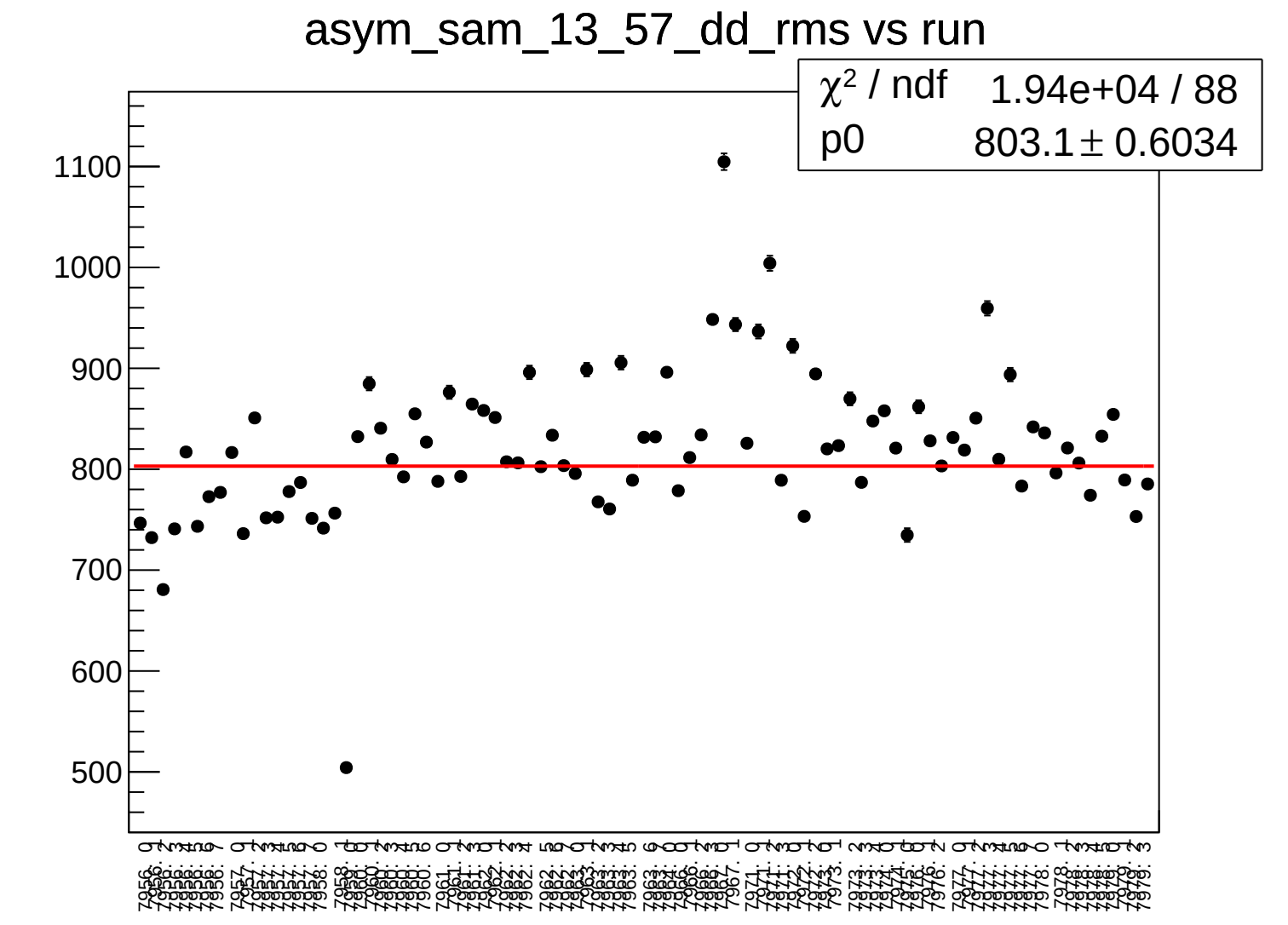

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 104.2 / 88
p0 128.1 ± 122.6
pull
Entries 89
Mean 102.6
Std Dev 0
pull1D
Entries 89
Mean −0.03829
Std Dev 1.081

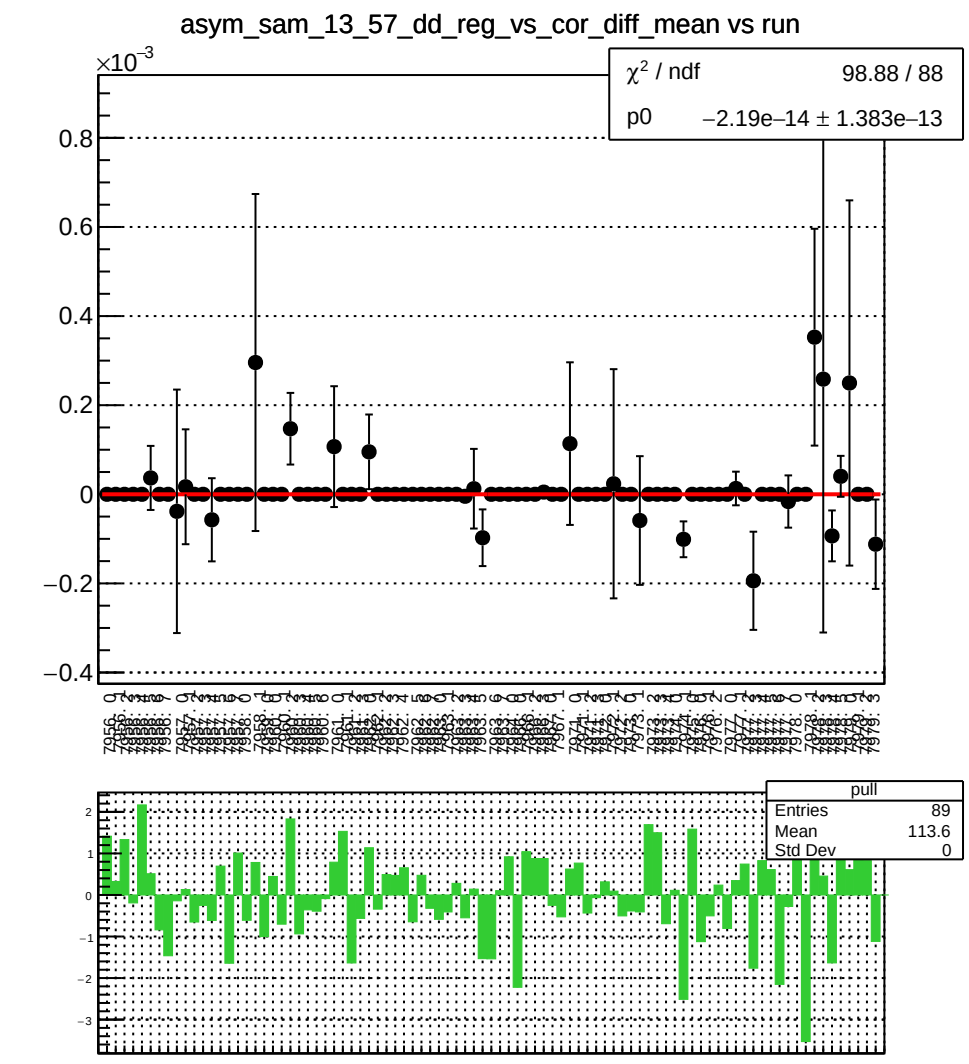

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.005e+05 / 88
p0 112.7 ± 0.08672
400
350
300
250
200
150
100

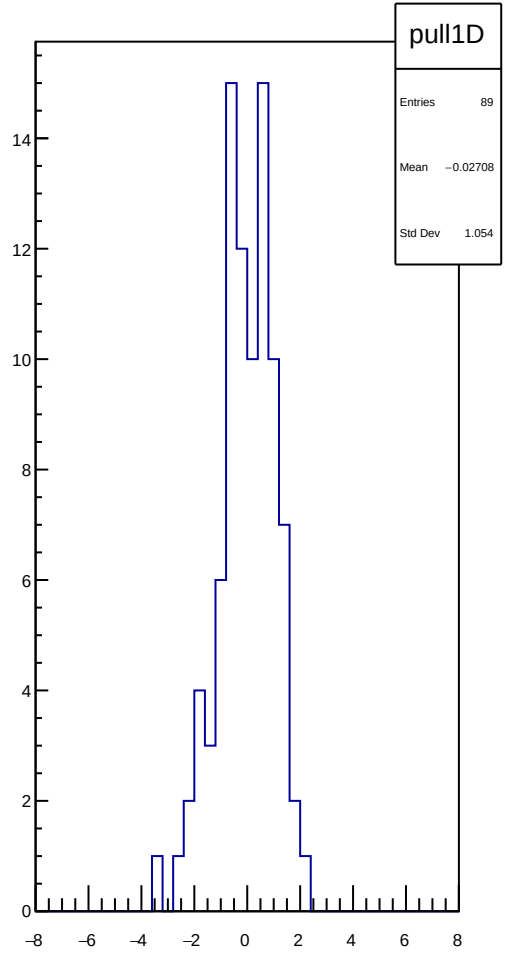

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 112.6 / 88
p0 640.9 ± 792.2
pull
Entries 89
Mean −1399
Std Dev 0
pull1D
Entries 89
Mean −0.003168
Std Dev 1.125

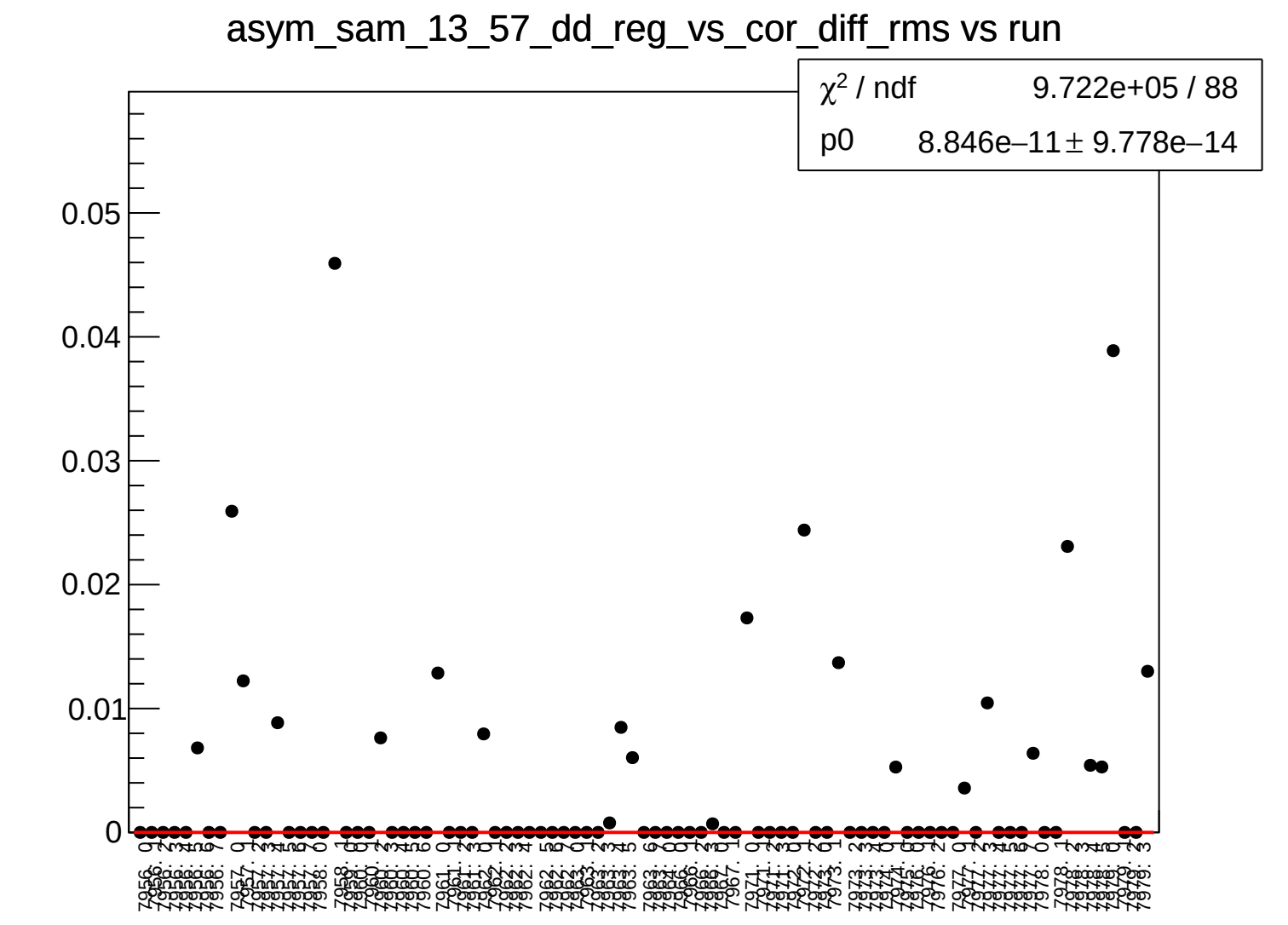

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.341e+04 / 88
p0 746.8 ± 0.5602
1000
950
900
850
800
750
700
650

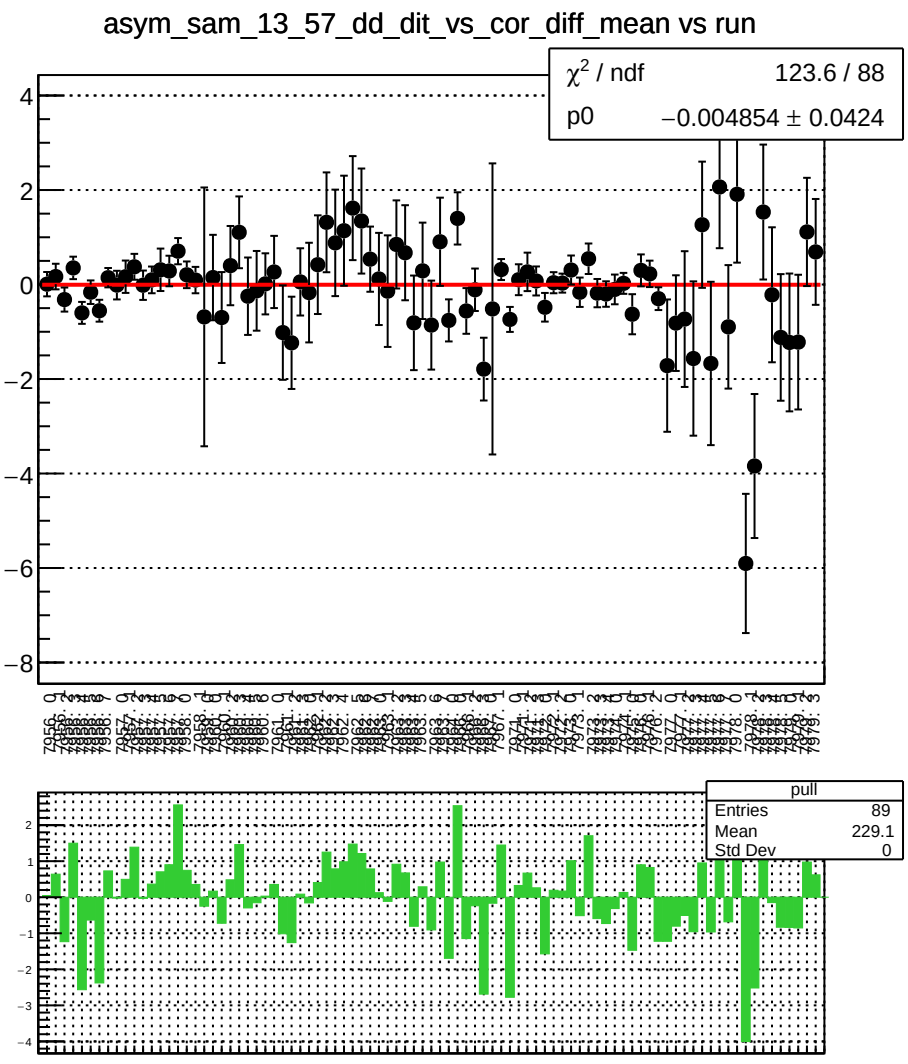

asym_sam_13_57_dd_mean vs run
χ² / ndf 112.8 / 88
p0 −385.7 ± 853.3
pull
Entries 89
Mean 331.7
Std Dev 0
pull1D
Entries 89
Mean −0.01533
Std Dev 1.126

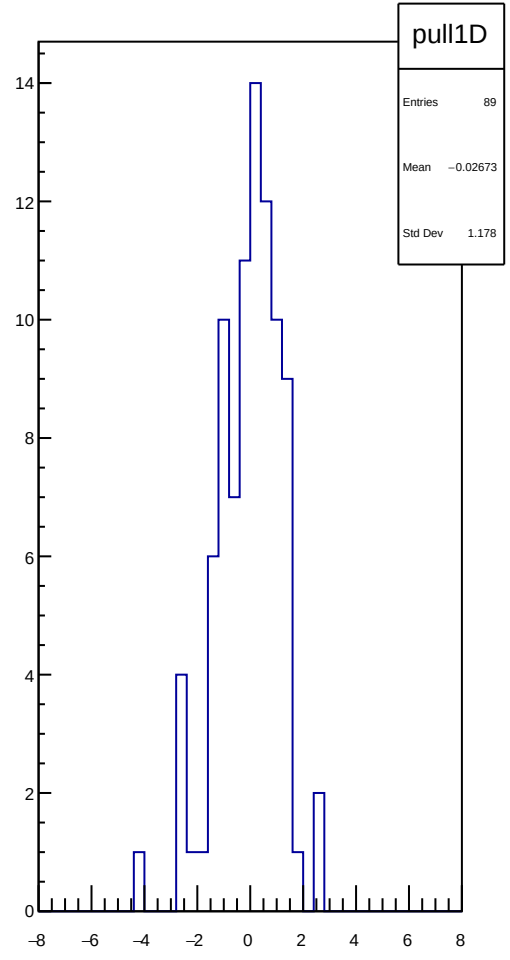

asym_sam_13_57_dd_rms vs run
χ² / ndf 1.94e+04 / 88
p0 803.1 ± 0.6034
1100
1000
900
800
700
600
500

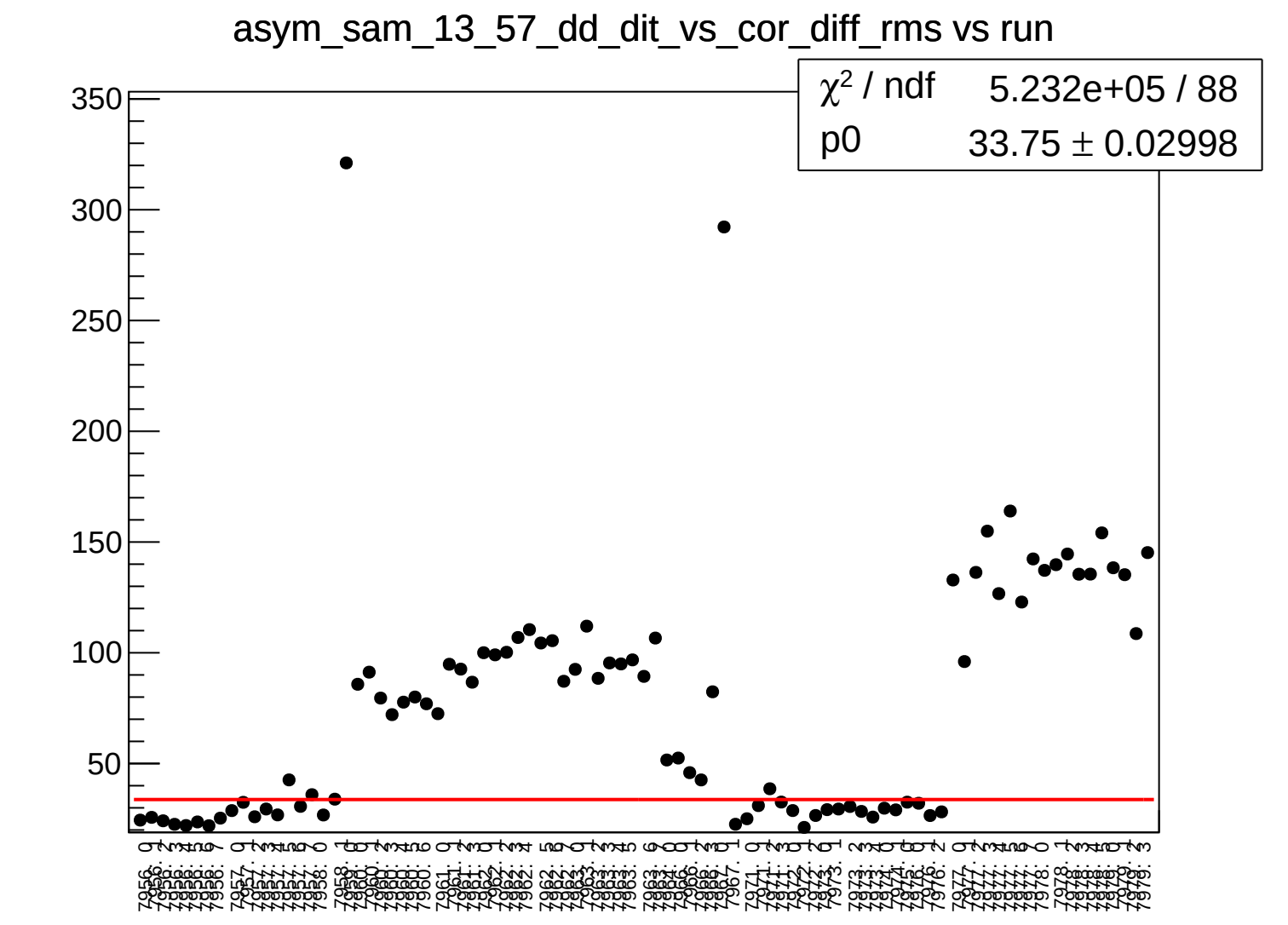

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 98.88 / 88
p0 −2.19e−14 ± 1.383e−13
pull
Entries 89
Mean 113.6
Std Dev 0

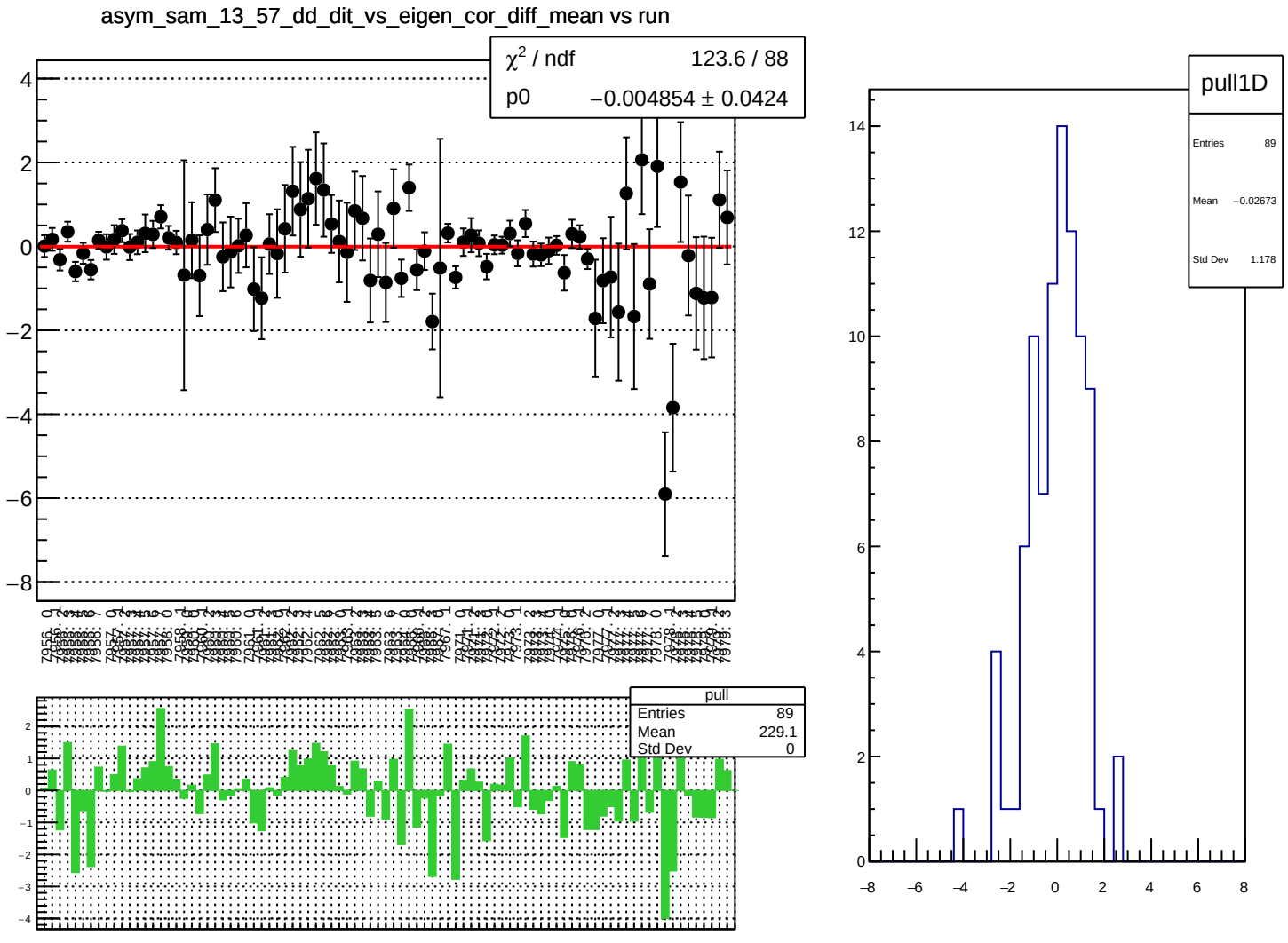

pull1D
Entries 89
Mean −0.02708
Std Dev 1.054

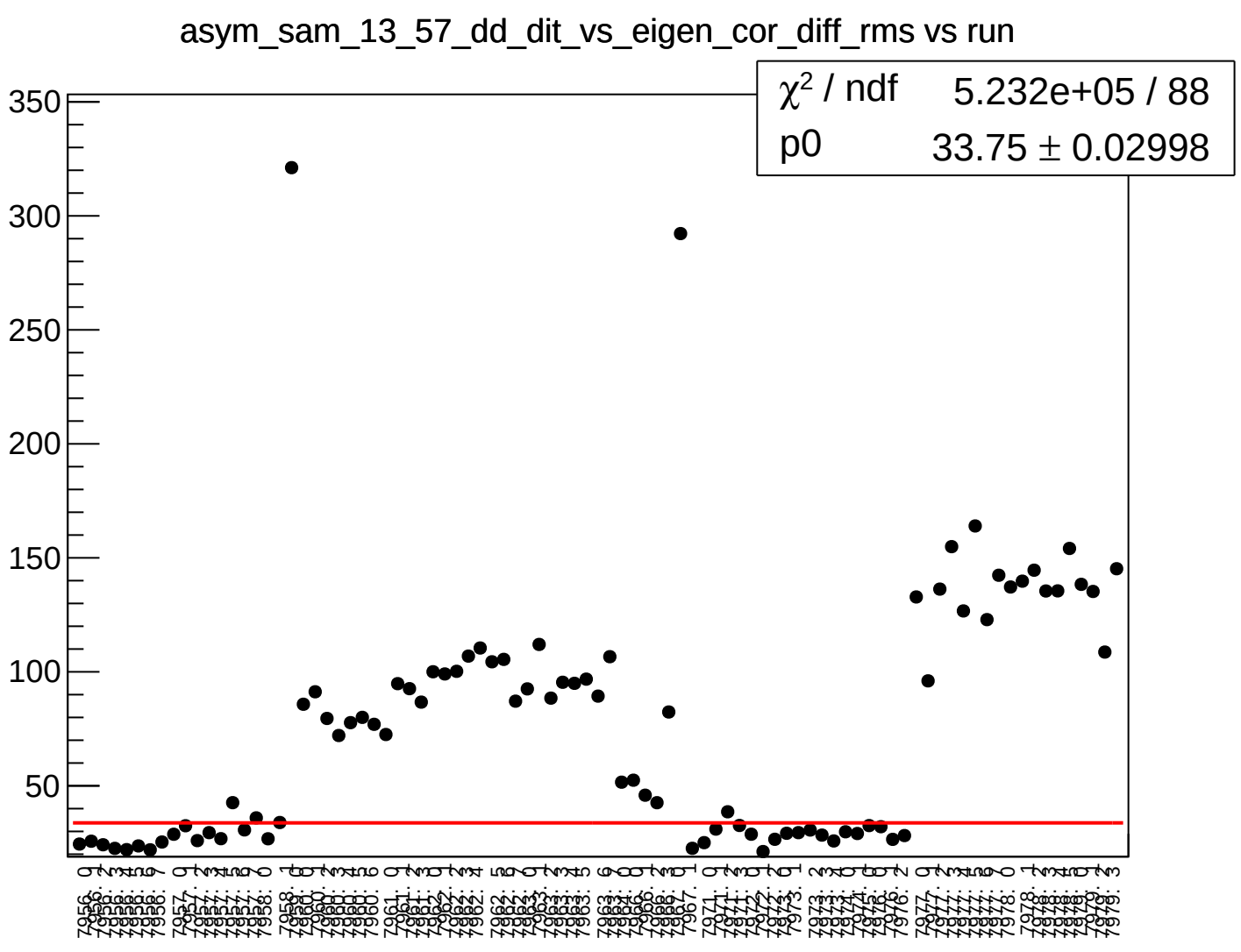

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.722e+05 / 88
p0 8.846e−11 ± 9.778e−14
0.05
0.04
0.03
0.02
0.01
0

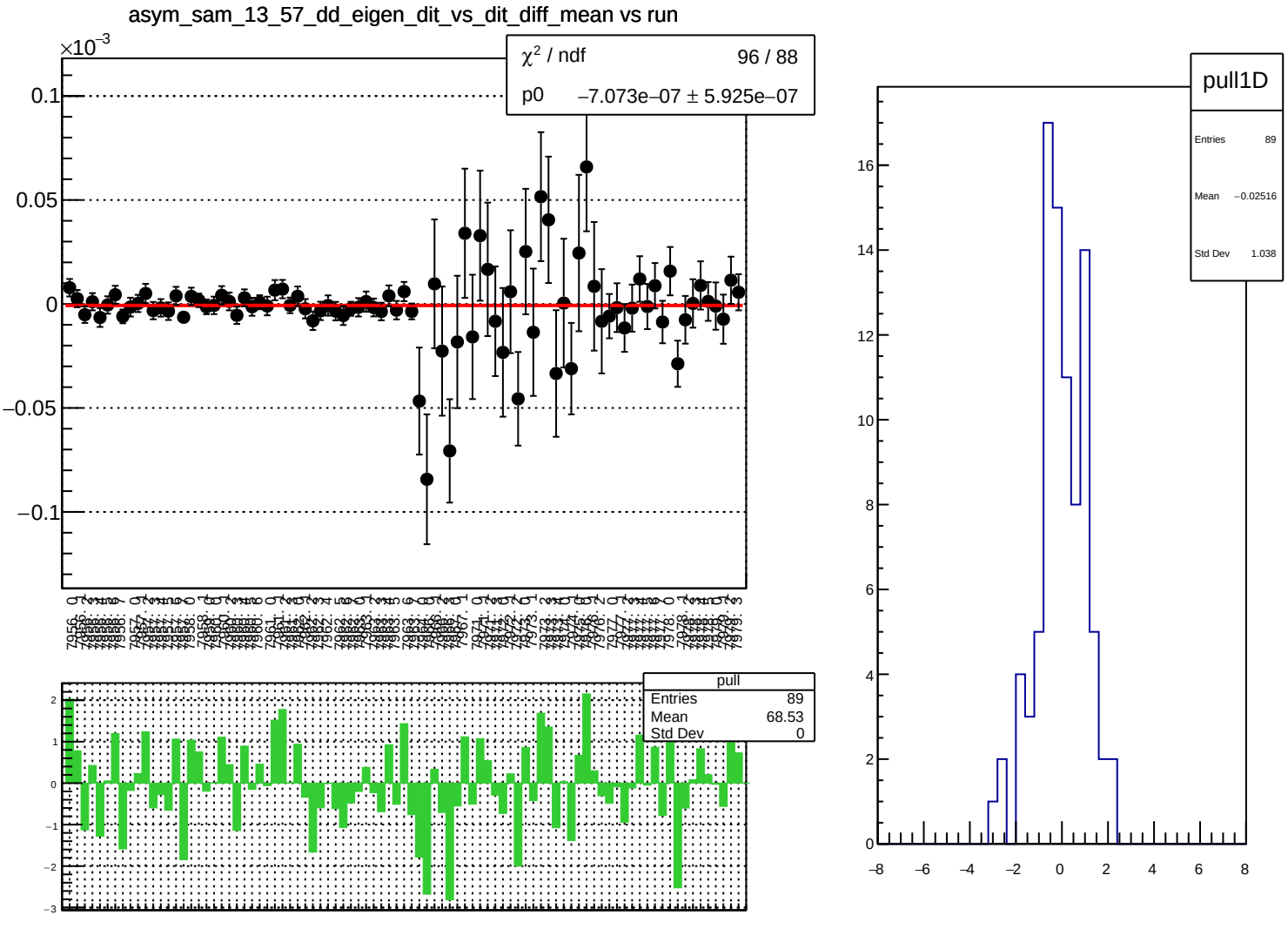

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 123.6 / 88
p0 −0.004854 ± 0.0424
pull
Entries 89
Mean 229.1
Std Dev 0

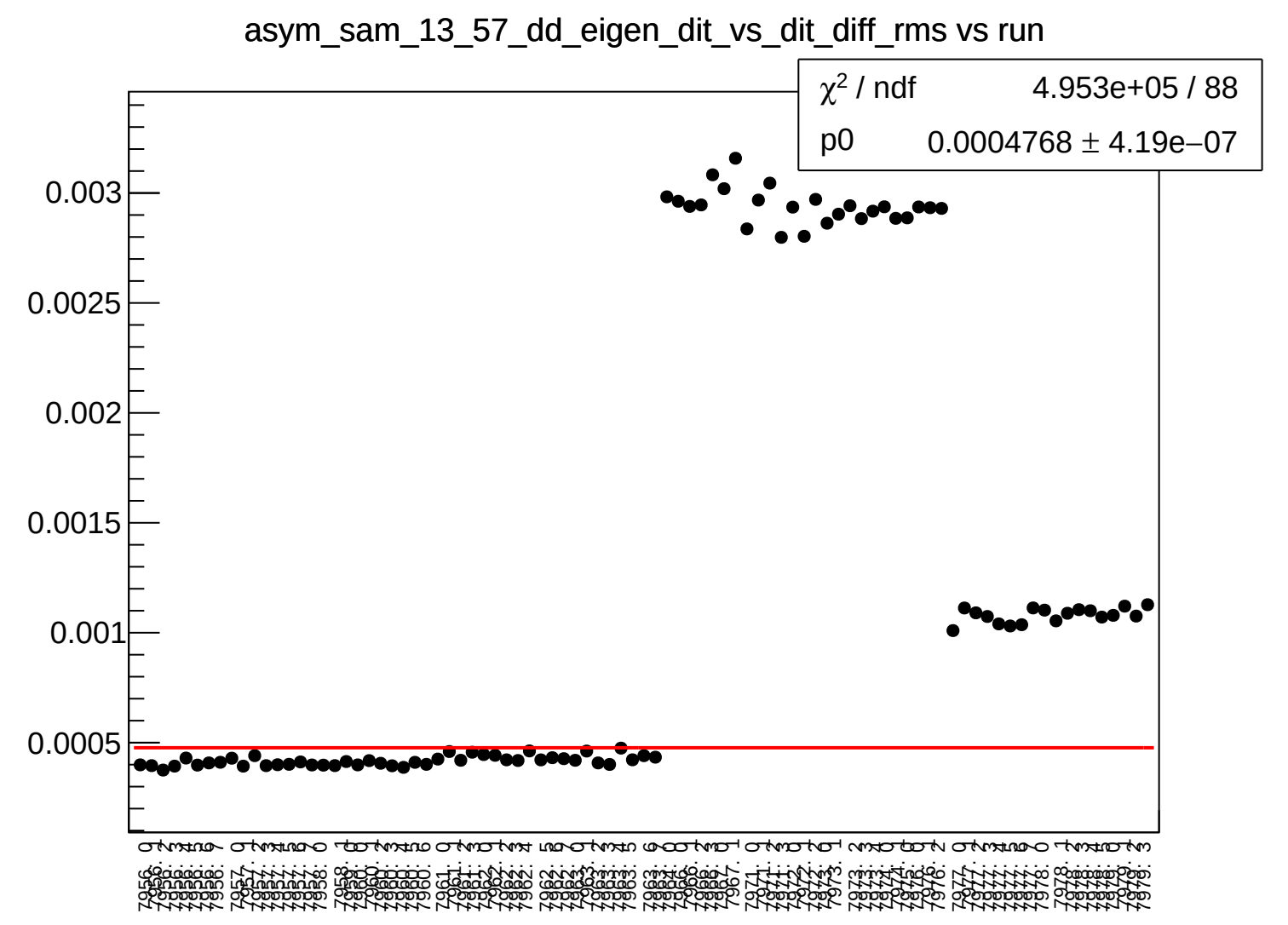

pull1D
Entries 89
Mean −0.02673
Std Dev 1.178

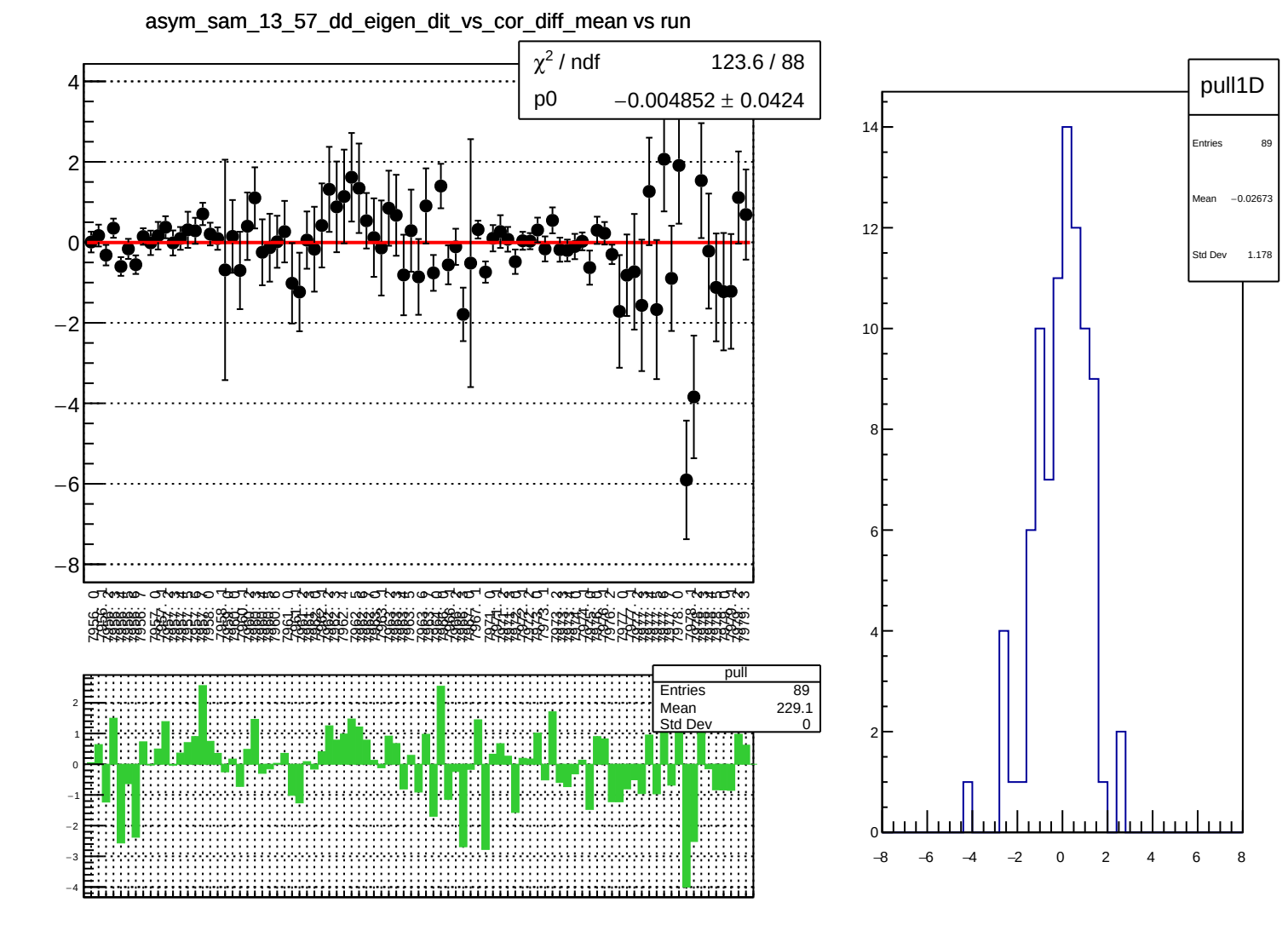

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.232e+05 / 88
p0 33.75 ± 0.02998
350
300
250
200
150
100
50

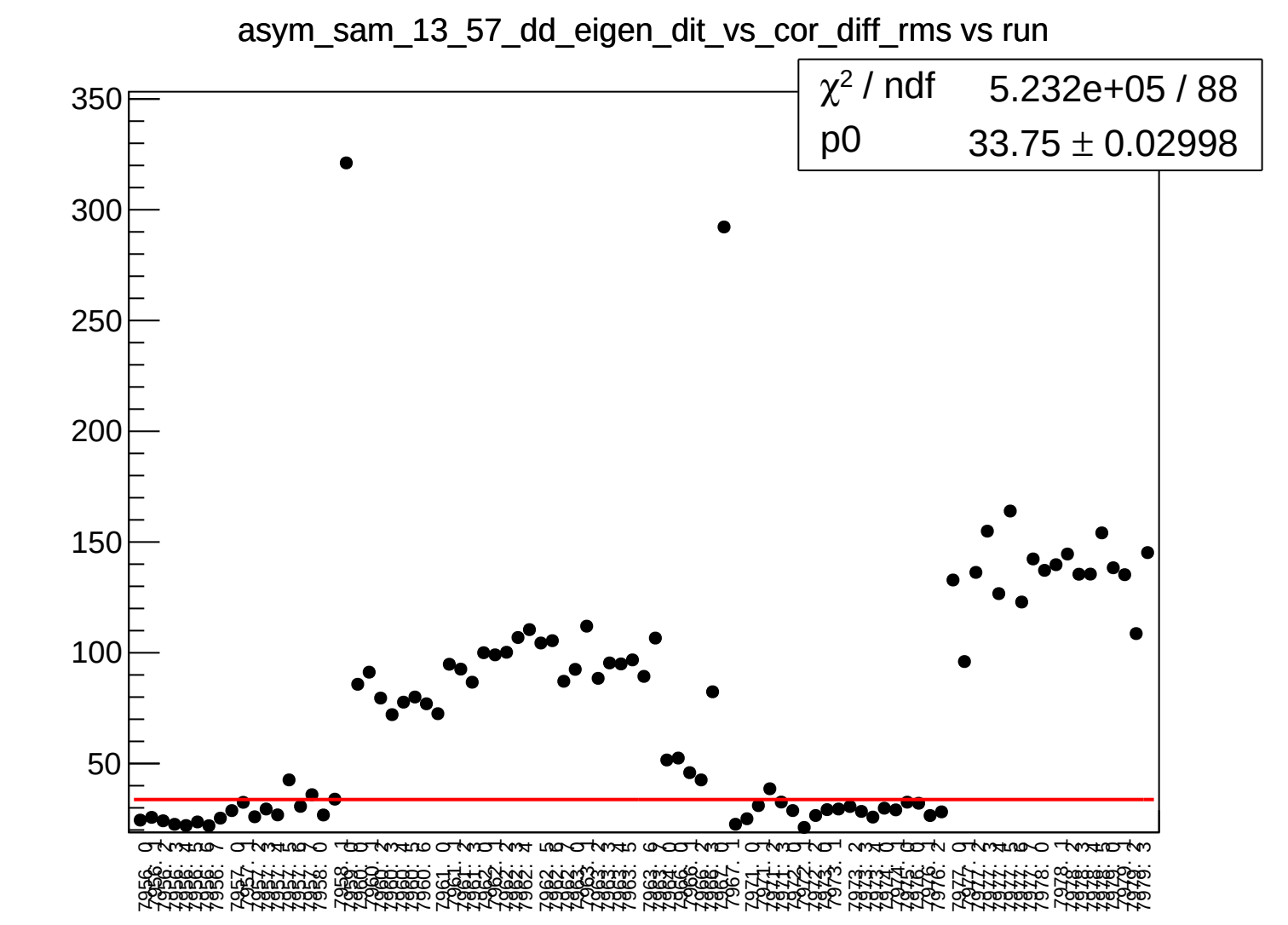

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.6 / 88
p0 −0.004854 ± 0.0424
pull
Entries 89
Mean 229.1
Std Dev 0
pull1D
Entries 89
Mean −0.02673
Std Dev 1.178


asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.232e+05 / 88
p0 33.75 ± 0.02998
350
300
250
200
150
100
50

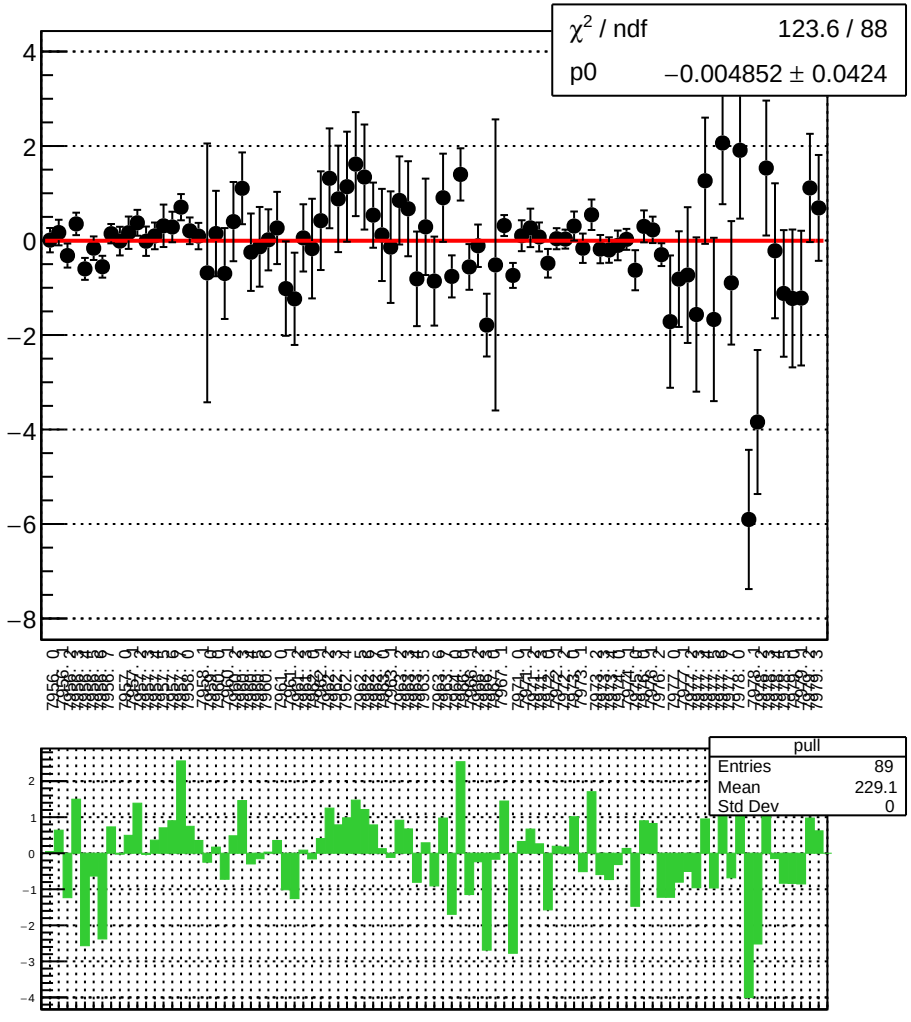

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 96 / 88
p0 −7.073e−07 ± 5.925e−07
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 68.53
Std Dev 0
pull1D
Entries 89
Mean −0.02516
Std Dev 1.038

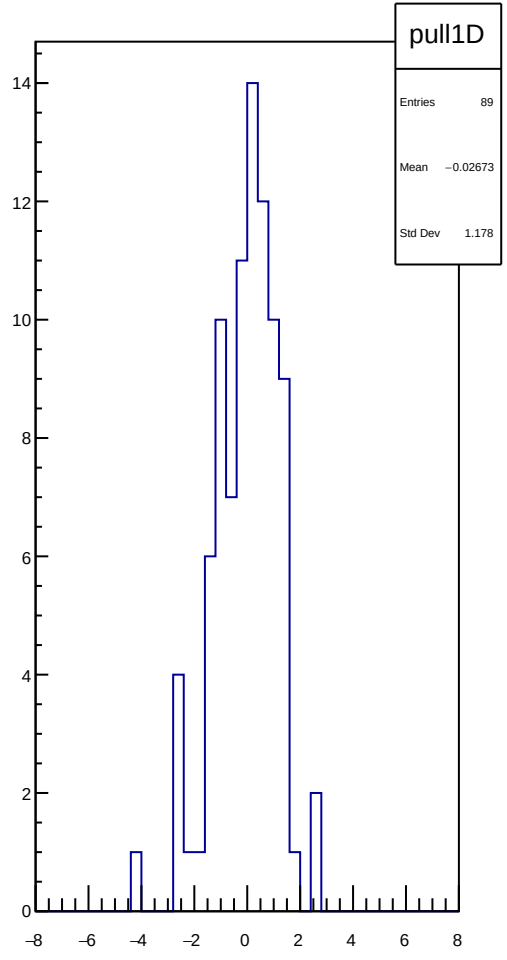

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.953e+05 / 88
p0 0.0004768 ± 4.19e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

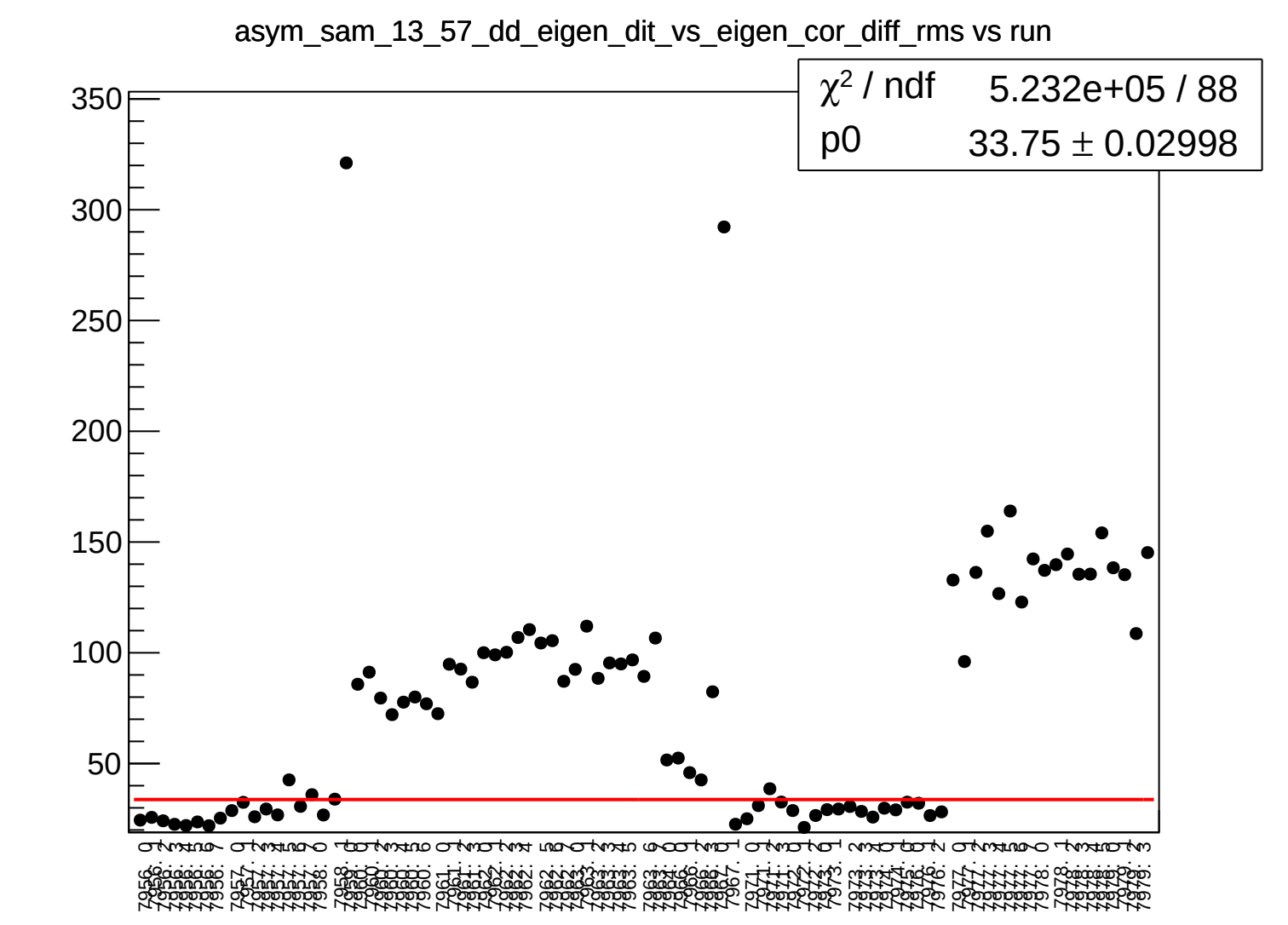

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 123.6 / 88
p0 −0.004852 ± 0.0424
pull
Entries 89
Mean 229.1
Std Dev 0
pull1D
Entries 89
Mean −0.02673
Std Dev 1.178

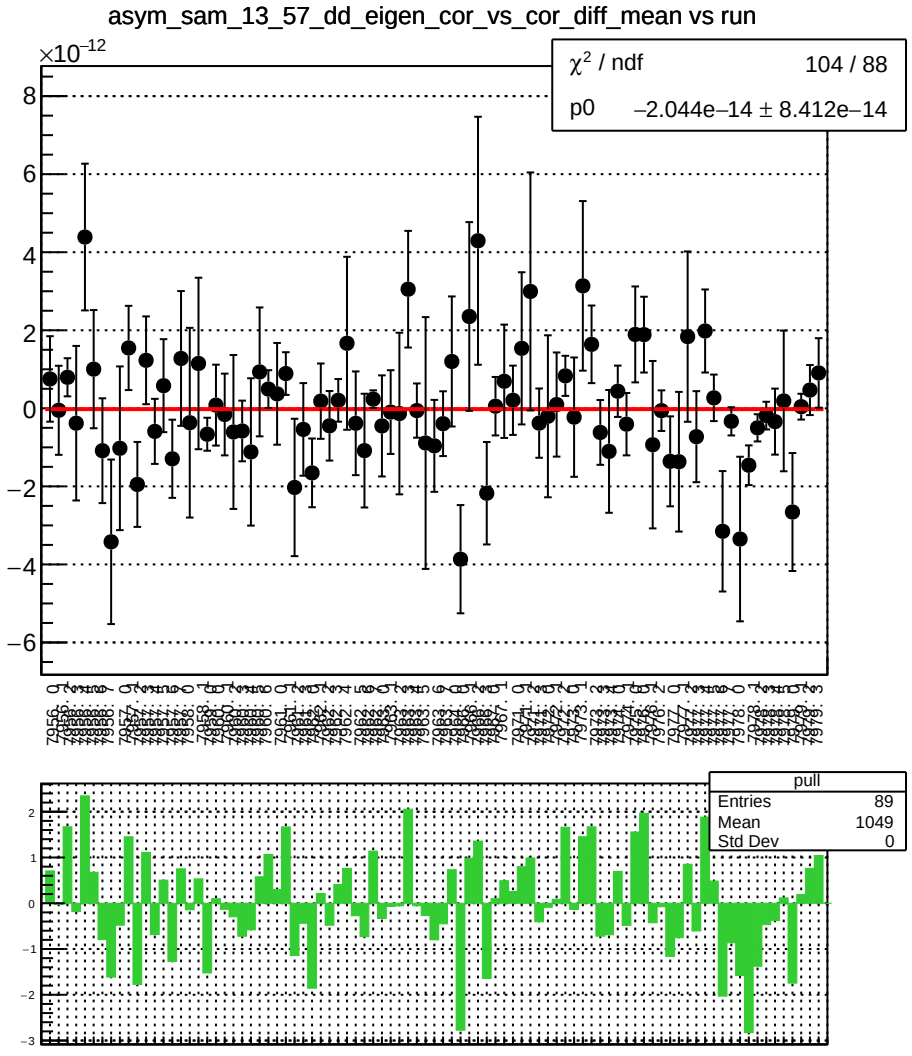

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.232e+05 / 88
p0 33.75 ± 0.02998
350
300
250
200
150
100
50

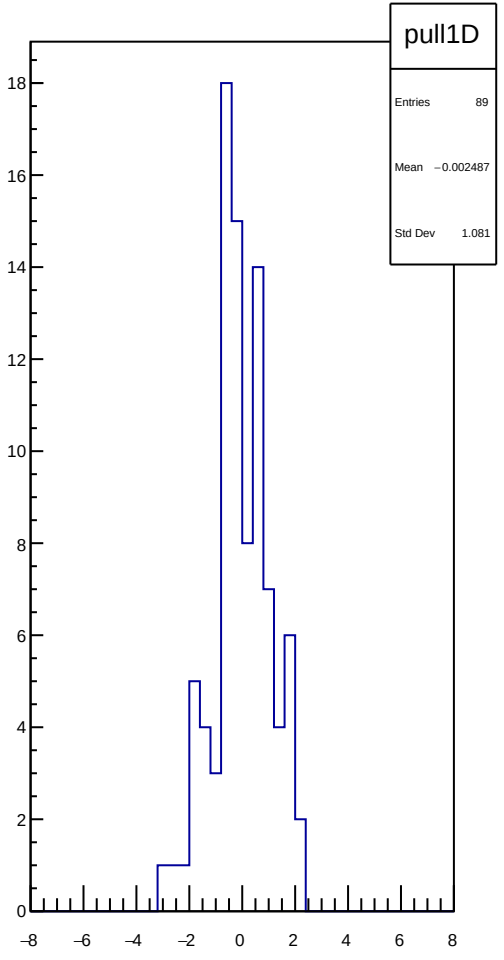
asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

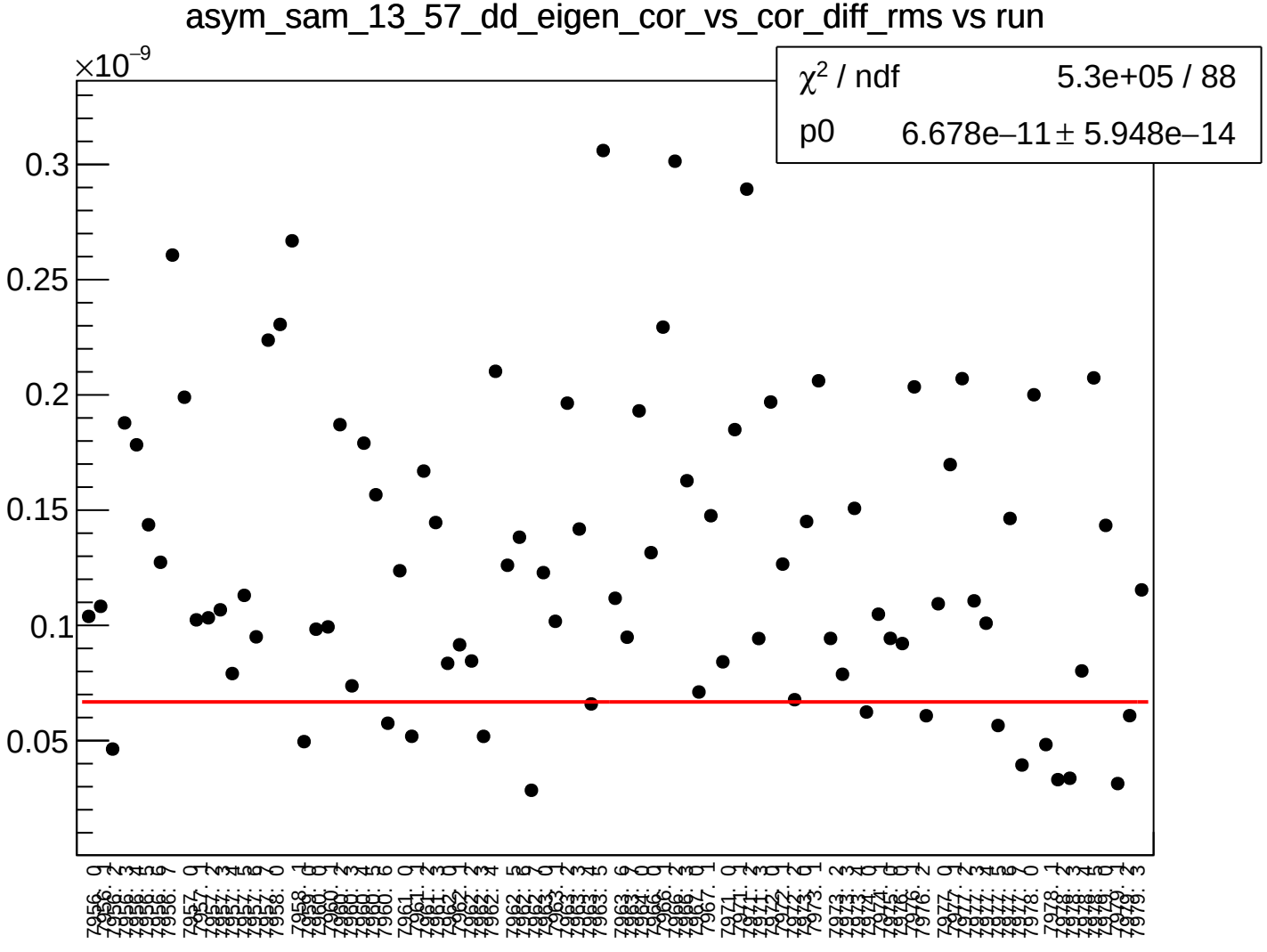


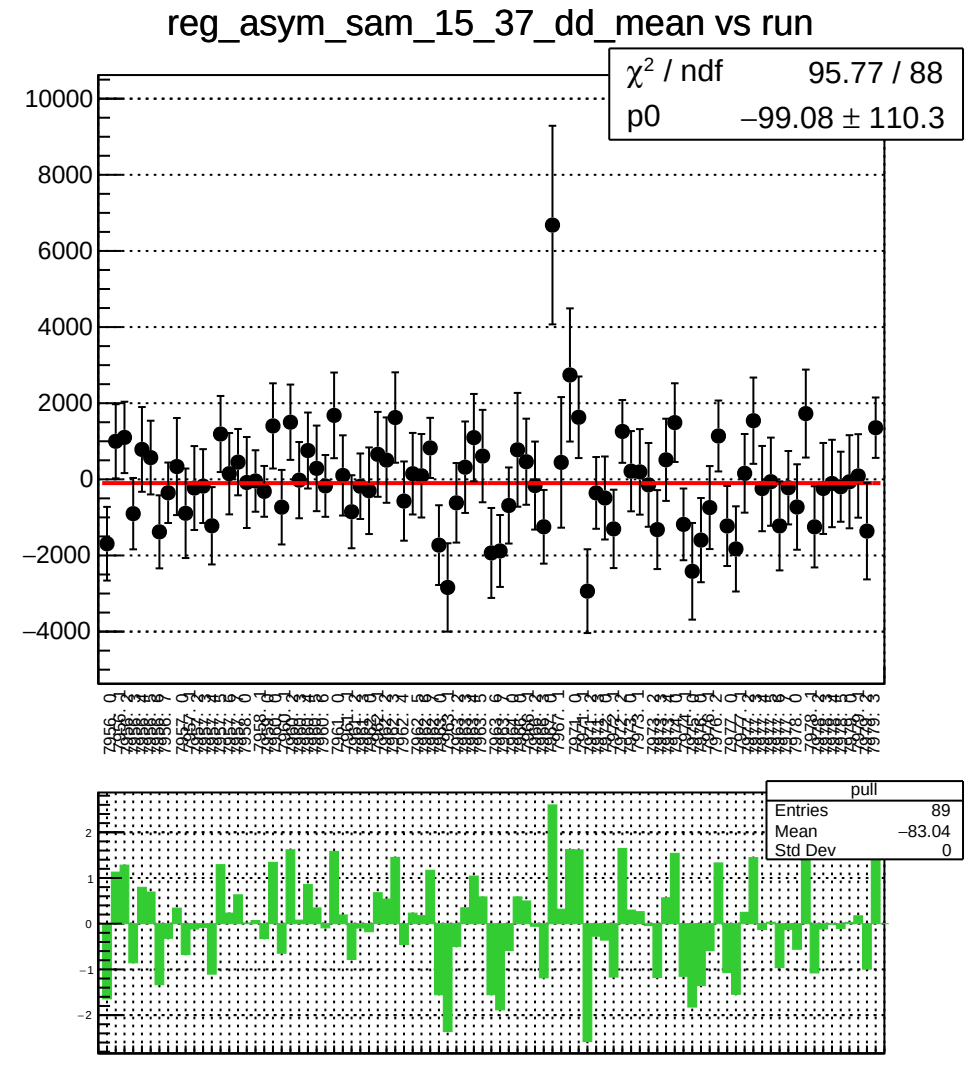



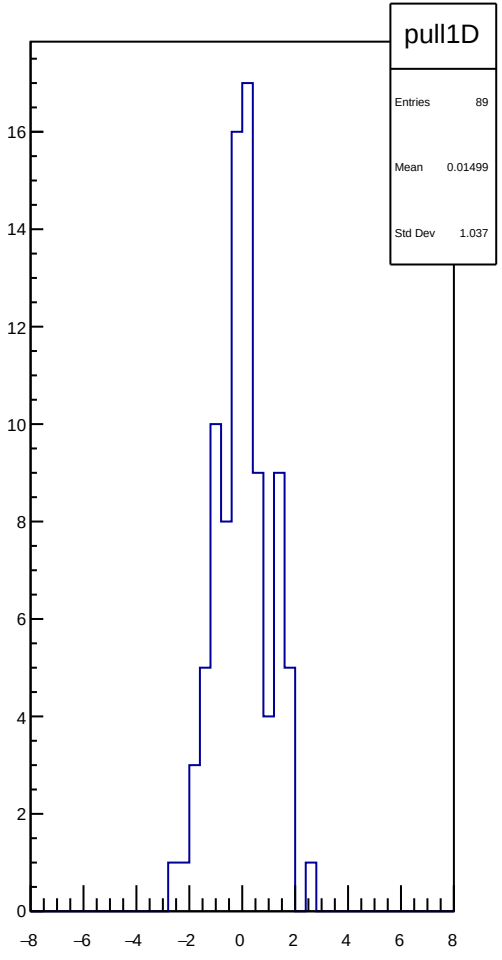

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.232e+05 / 88
p0 33.75 ± 0.02998
350
300
250
200
150
100
50

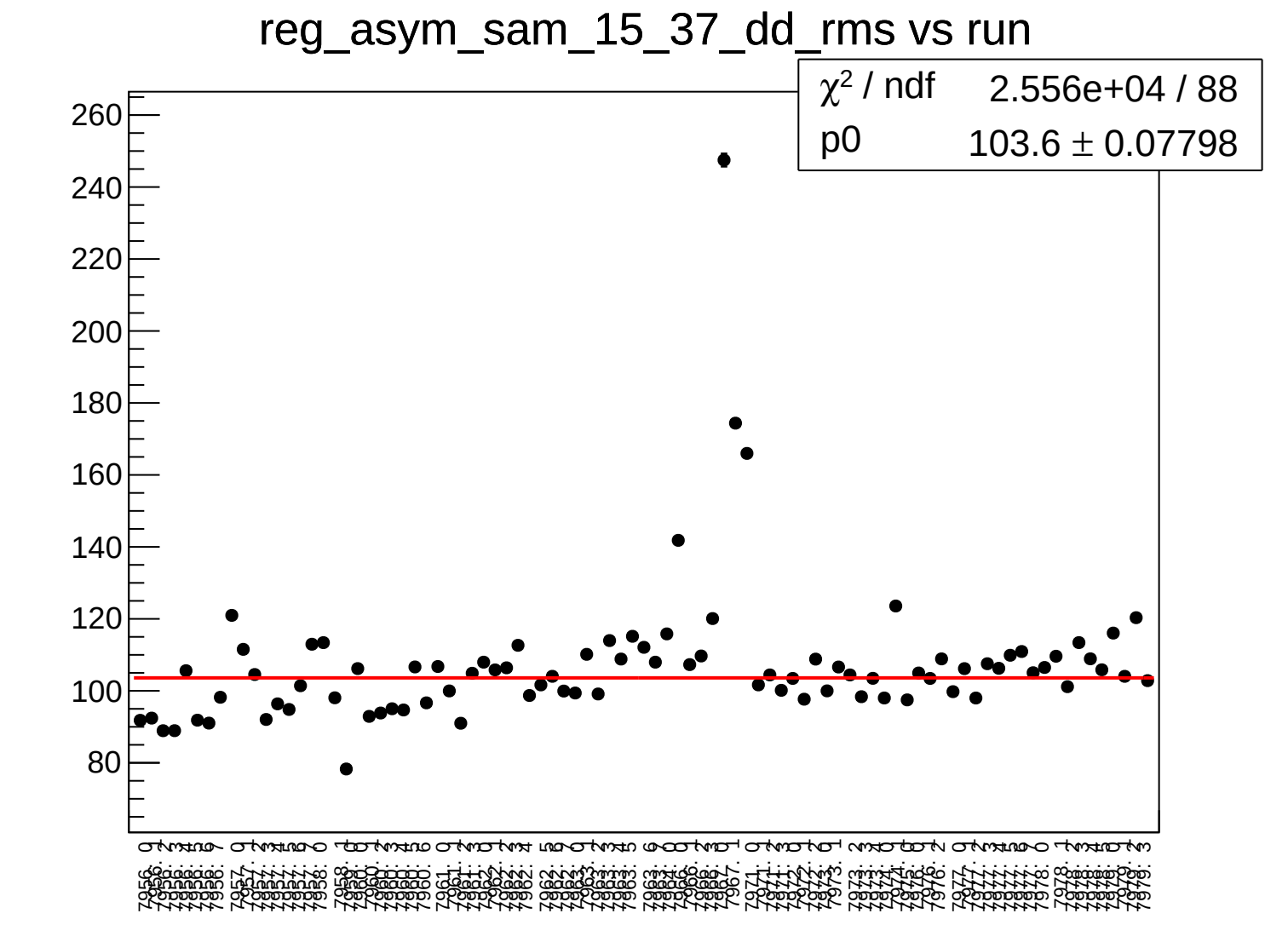

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104 / 88
p0 −2.044e−14 ± 8.412e−14
pull
Entries 89
Mean 1049
Std Dev 0

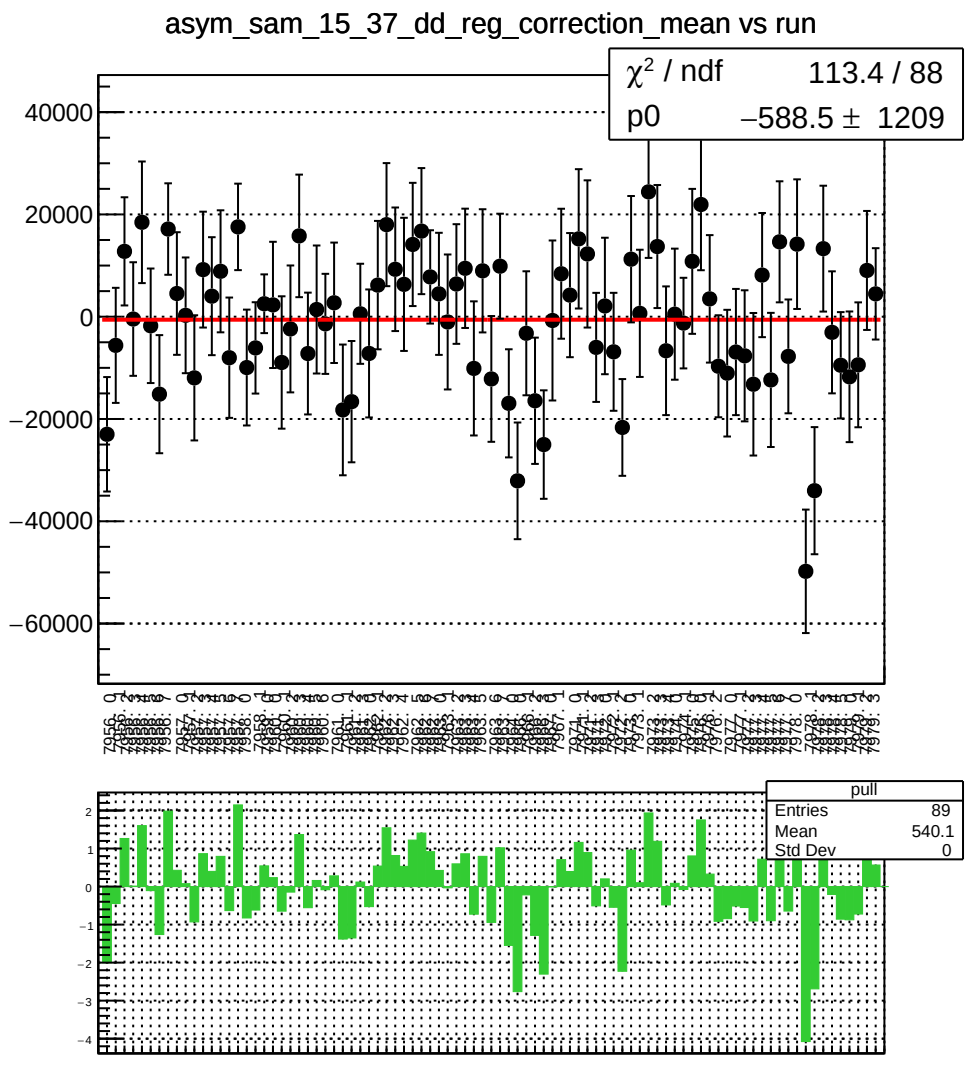

pull1D
Entries 89
Mean −0.002487
Std Dev 1.081

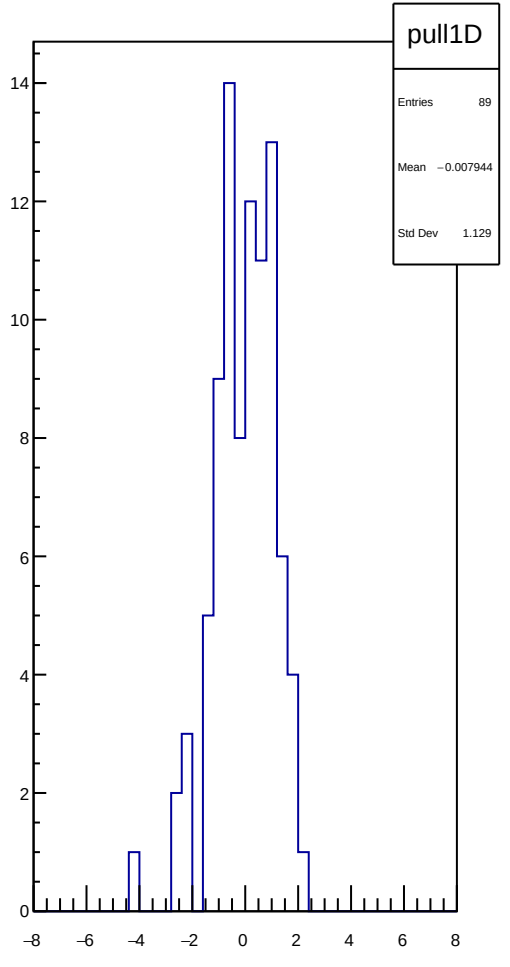

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.3e+05 / 88
p0 6.678e−11 ± 5.948e−14
0.3
0.25
0.2
0.15
0.1
0.05

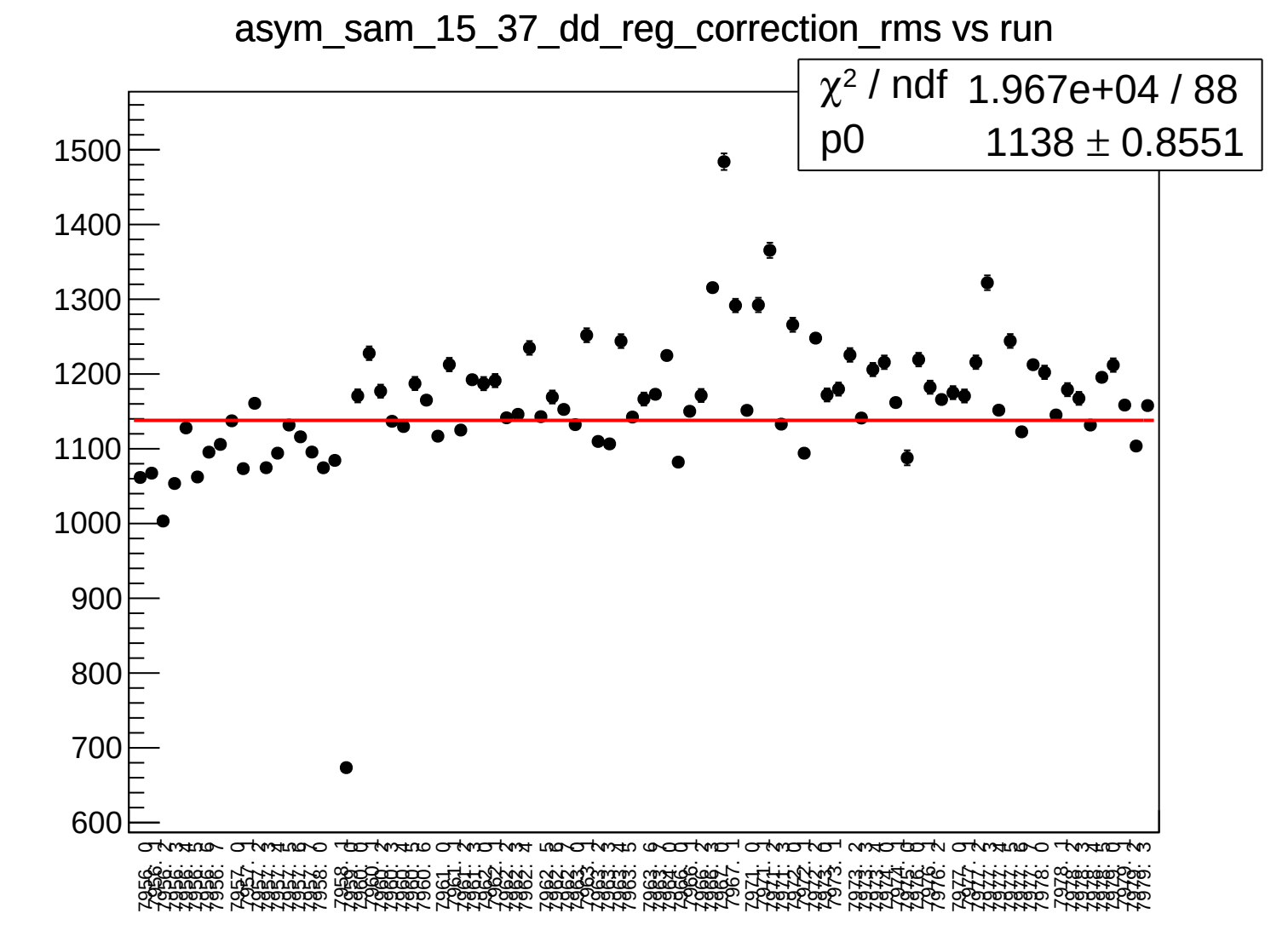

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 95.77 / 88
p0 −99.08 ± 110.3
pull
Entries 89
Mean −83.04
Std Dev 0

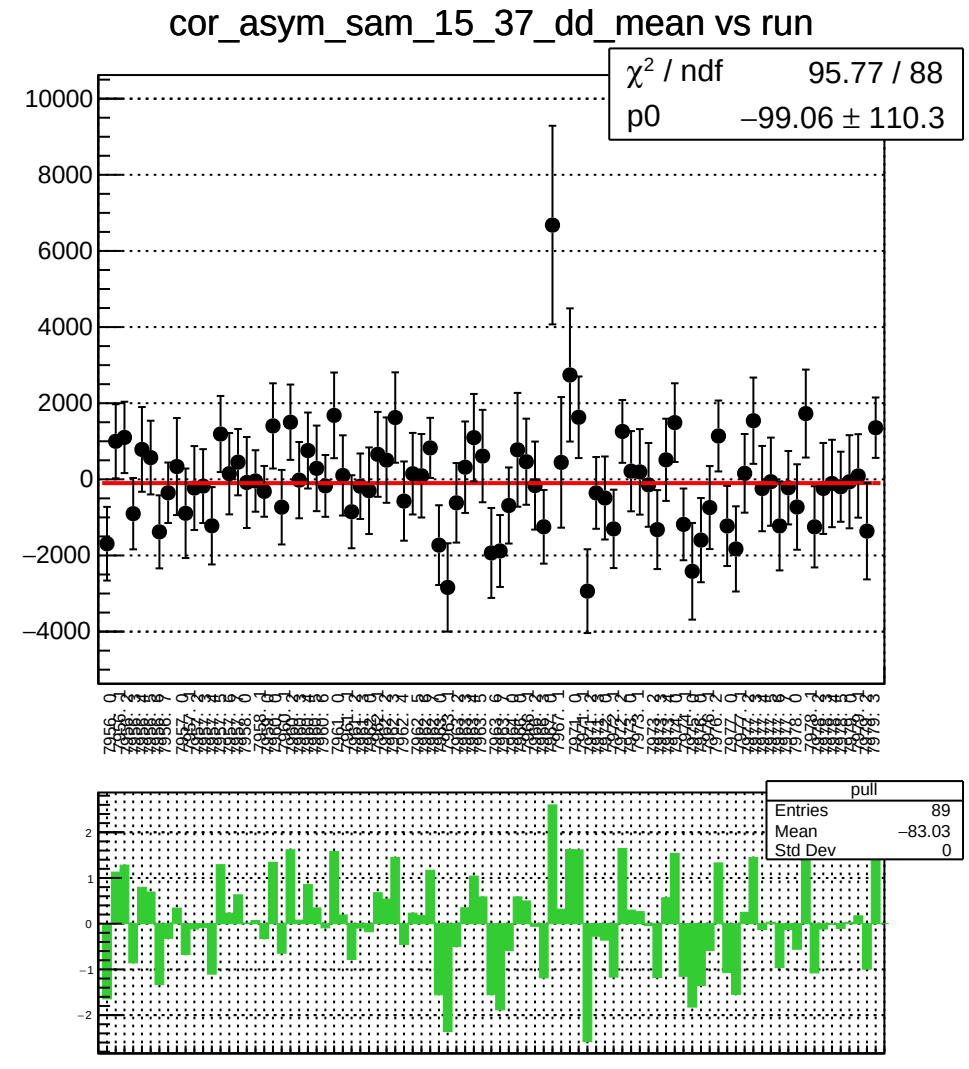

pull1D
Entries 89
Mean 0.01499
Std Dev 1.037

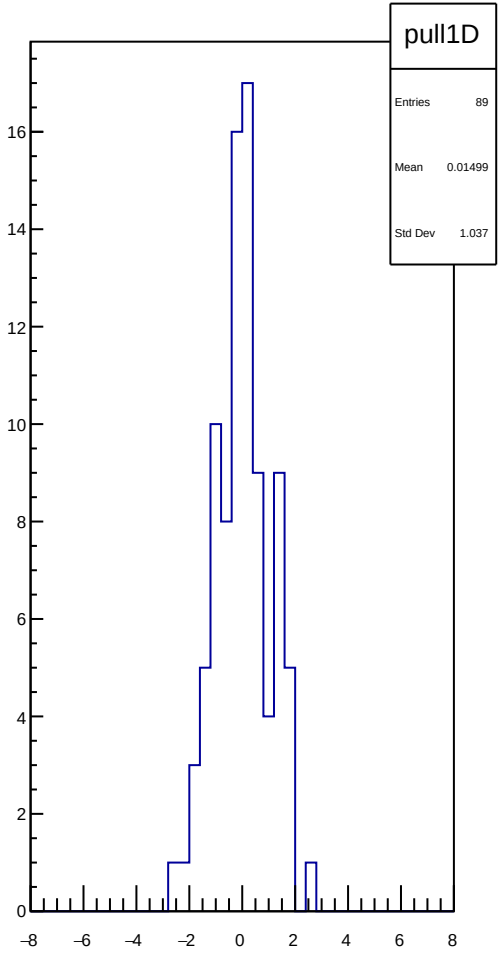

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.556e+04 / 88
p0 103.6 ± 0.07798
260
240
220
200
180
160
140
120
100
80

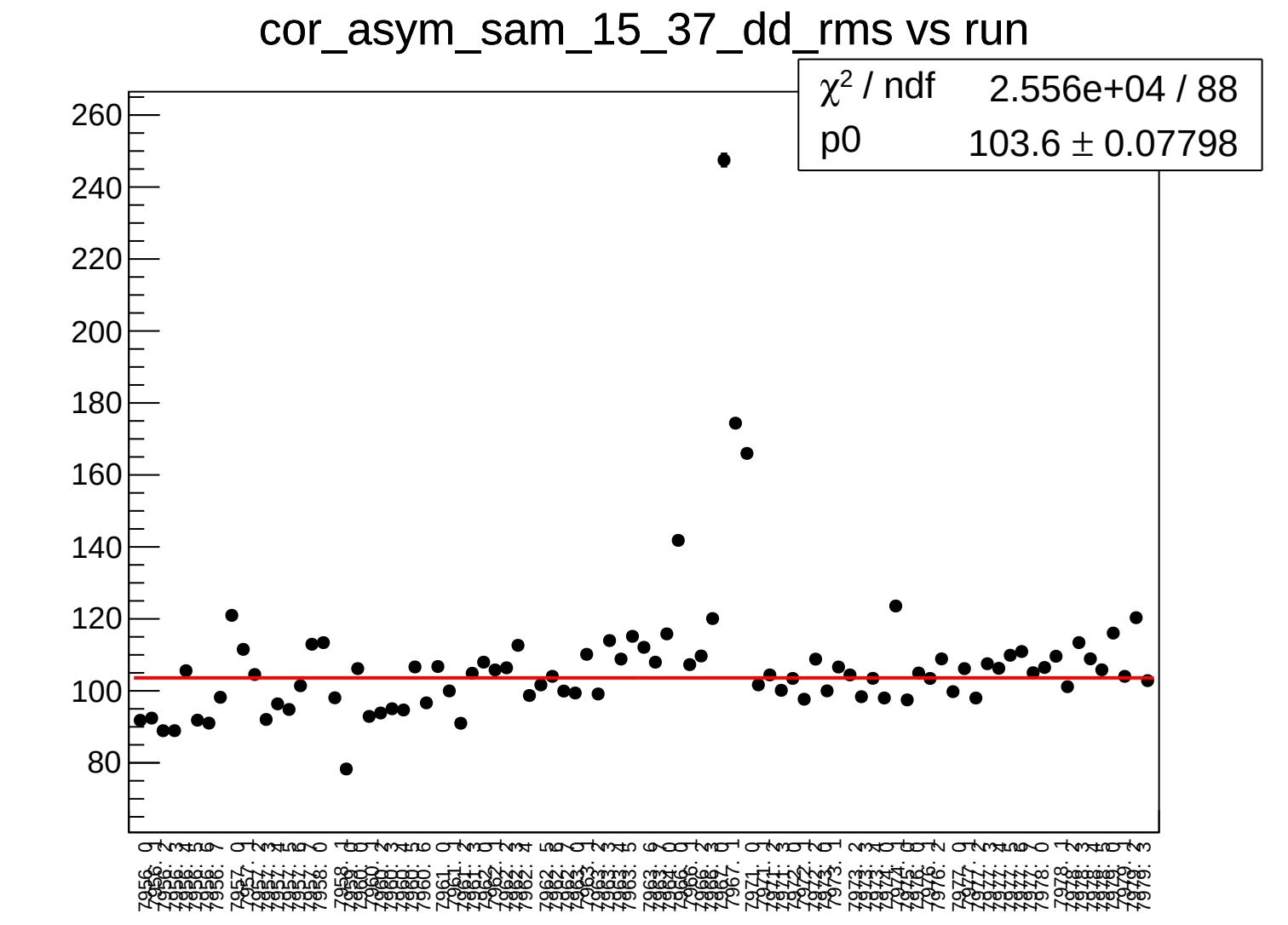

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 113.4 / 88
p0 −588.5 ± 1209
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 540.1
Std Dev 0
2
1
0
−1
−2
−3
−4

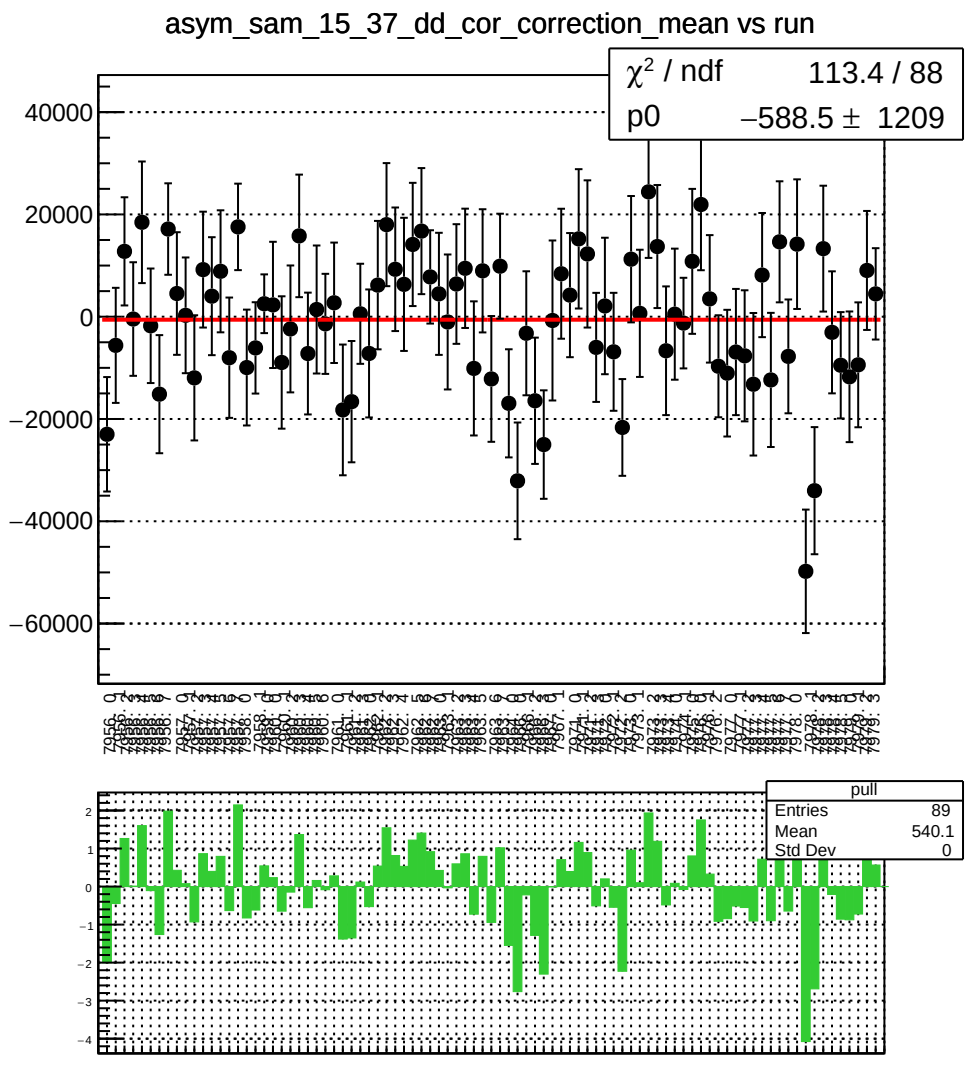

pull1D
Entries 89
Mean −0.007944
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

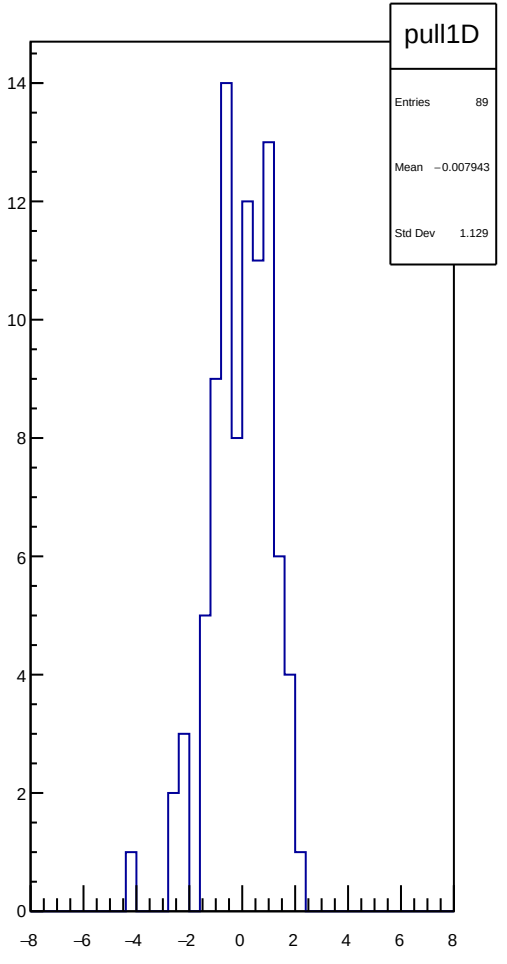

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.967e+04 / 88
p0 1138 ± 0.8551
1500
1400
1300
1200
1100
1000
900
800
700
600

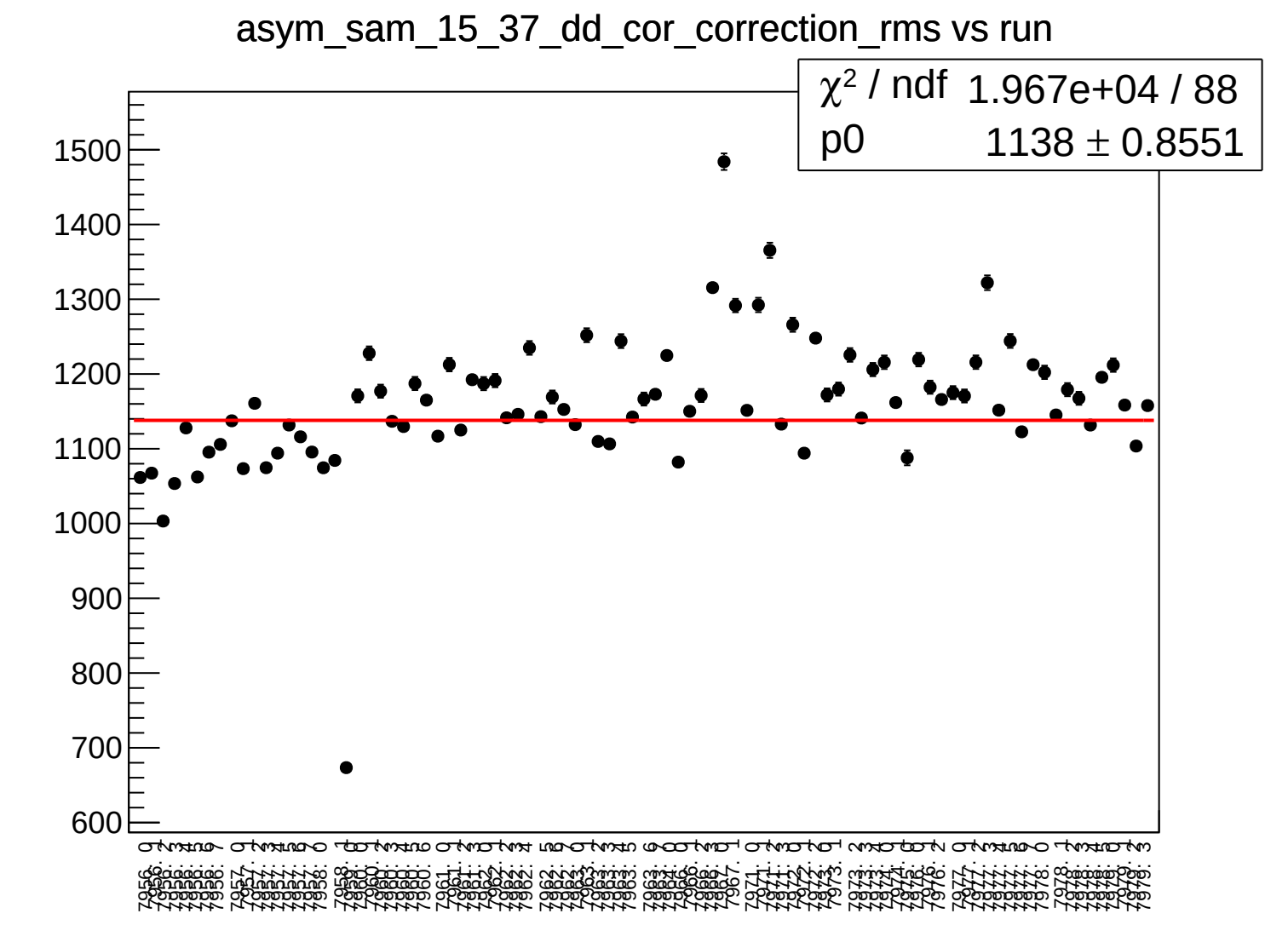

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 95.77 / 88
p0 −99.06 ± 110.3
pull
Entries 89
Mean −83.03
Std Dev 0

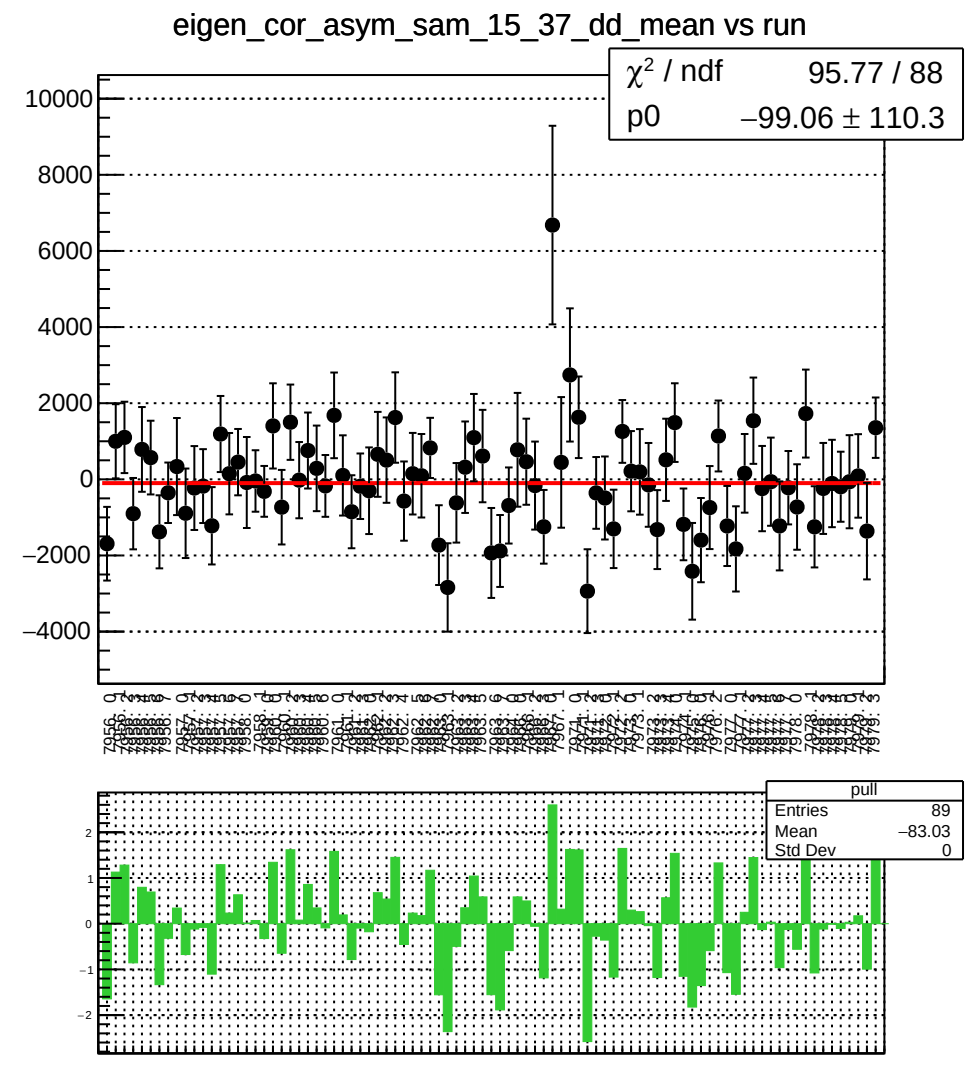

pull1D
Entries 89
Mean 0.01499
Std Dev 1.037

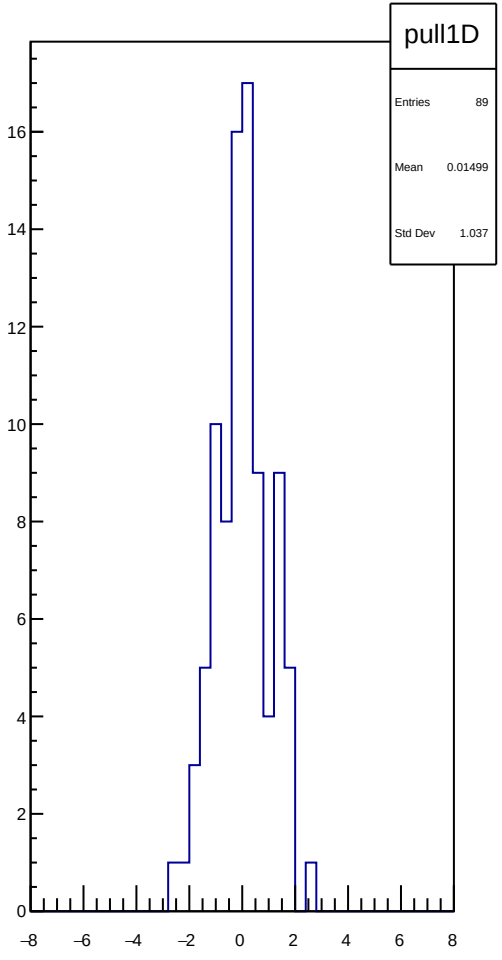

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.556e+04 / 88
p0 103.6 ± 0.07798
260
240
220
200
180
160
140
120
100
80

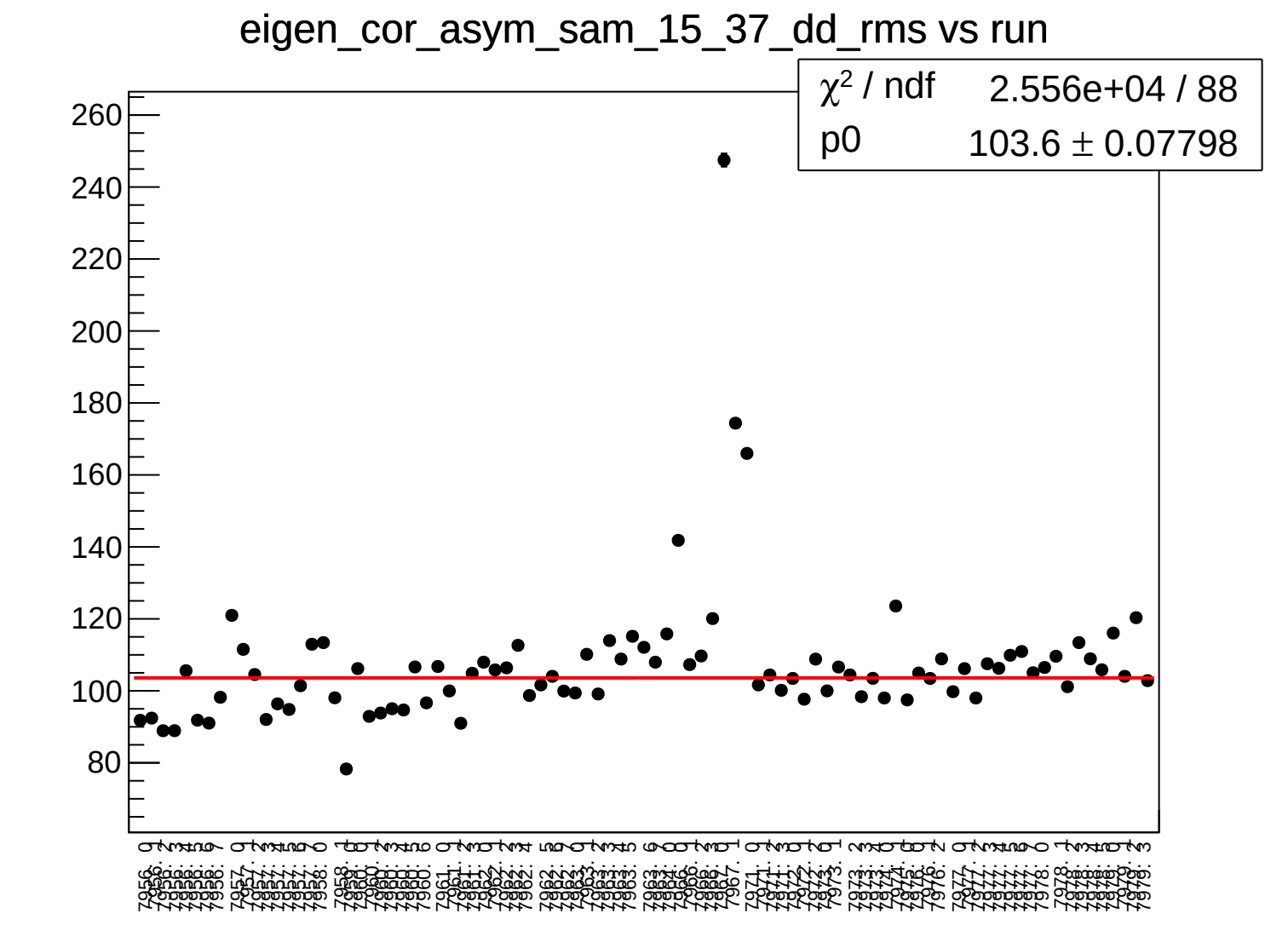

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 113.4 / 88
p0 −588.5 ± 1209
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 540.1
Std Dev 0
2
1
0
−1
−2
−3
−4

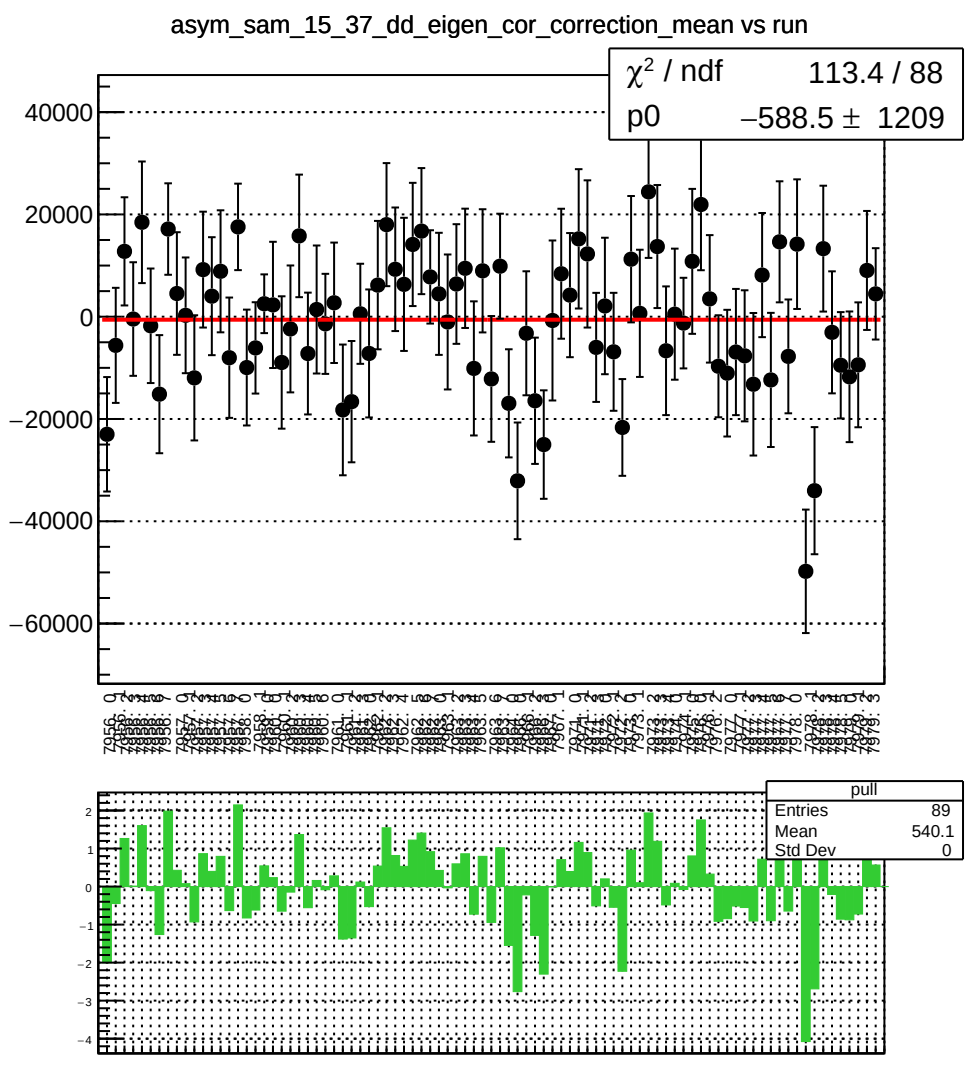

pull1D
Entries 89
Mean −0.007943
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

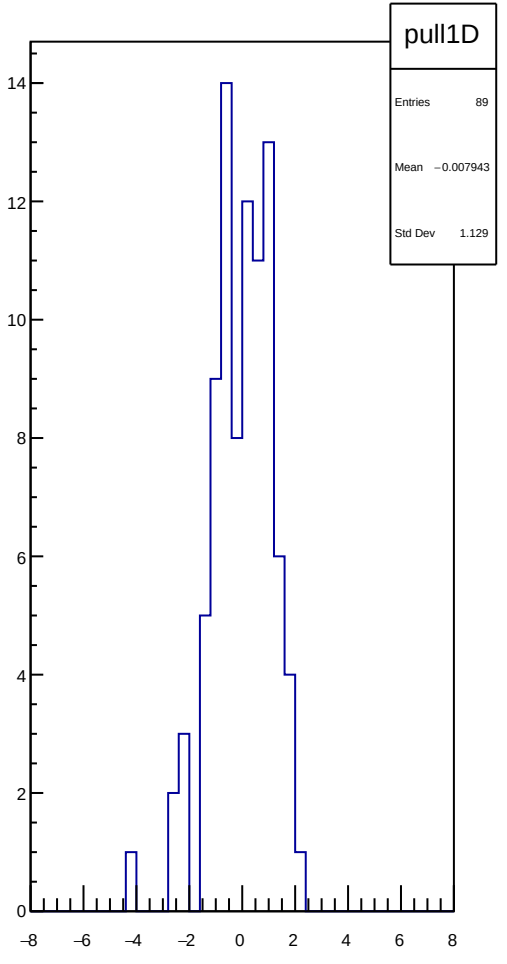

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.967e+04 / 88
p0 1138 ± 0.8551
1500
1400
1300
1200
1100
1000
900
800
700
600

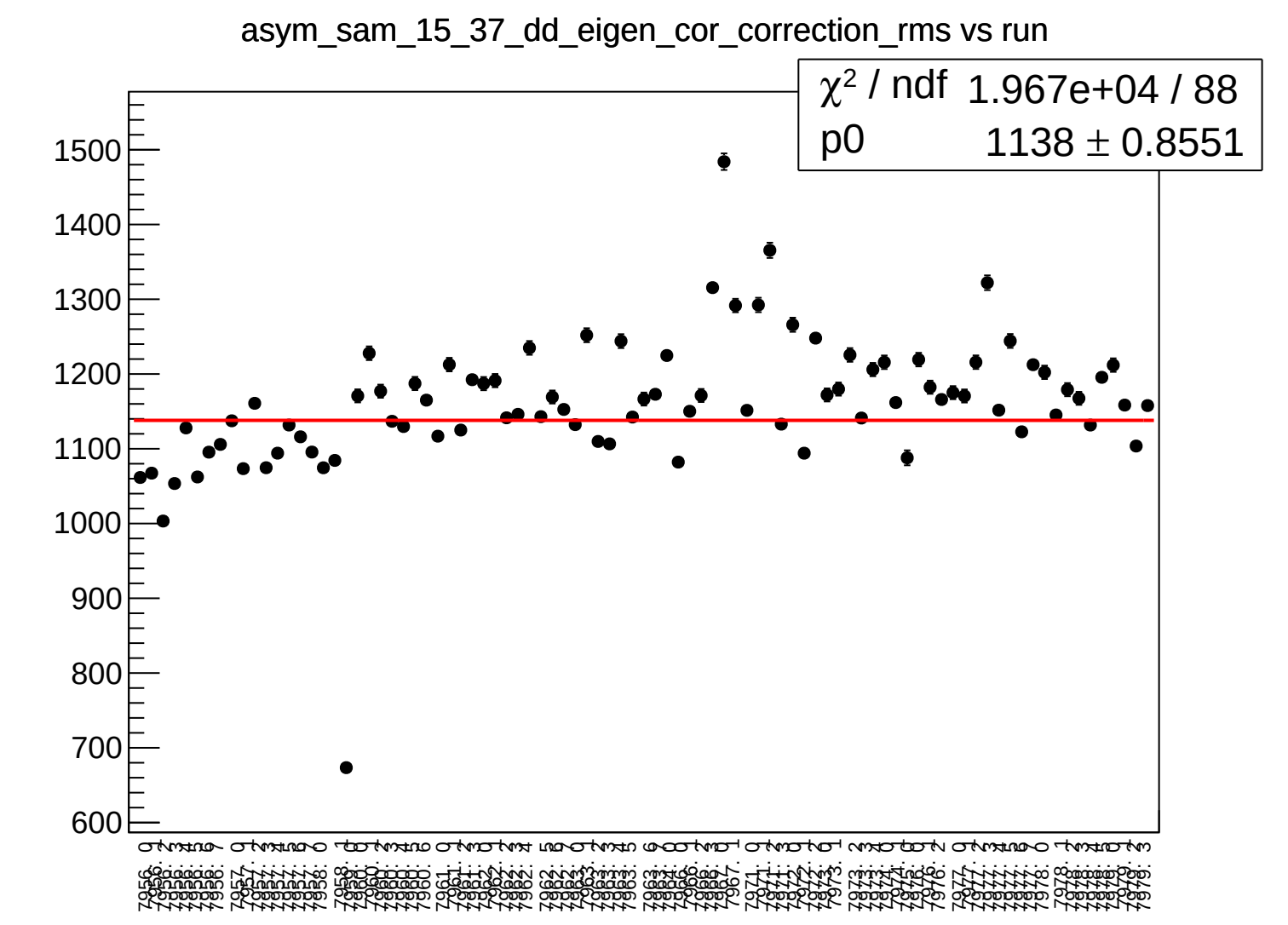

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 95.77 / 88
p0 −99.06 ± 110.3
pull
Entries 89
Mean −83.03
Std Dev 0

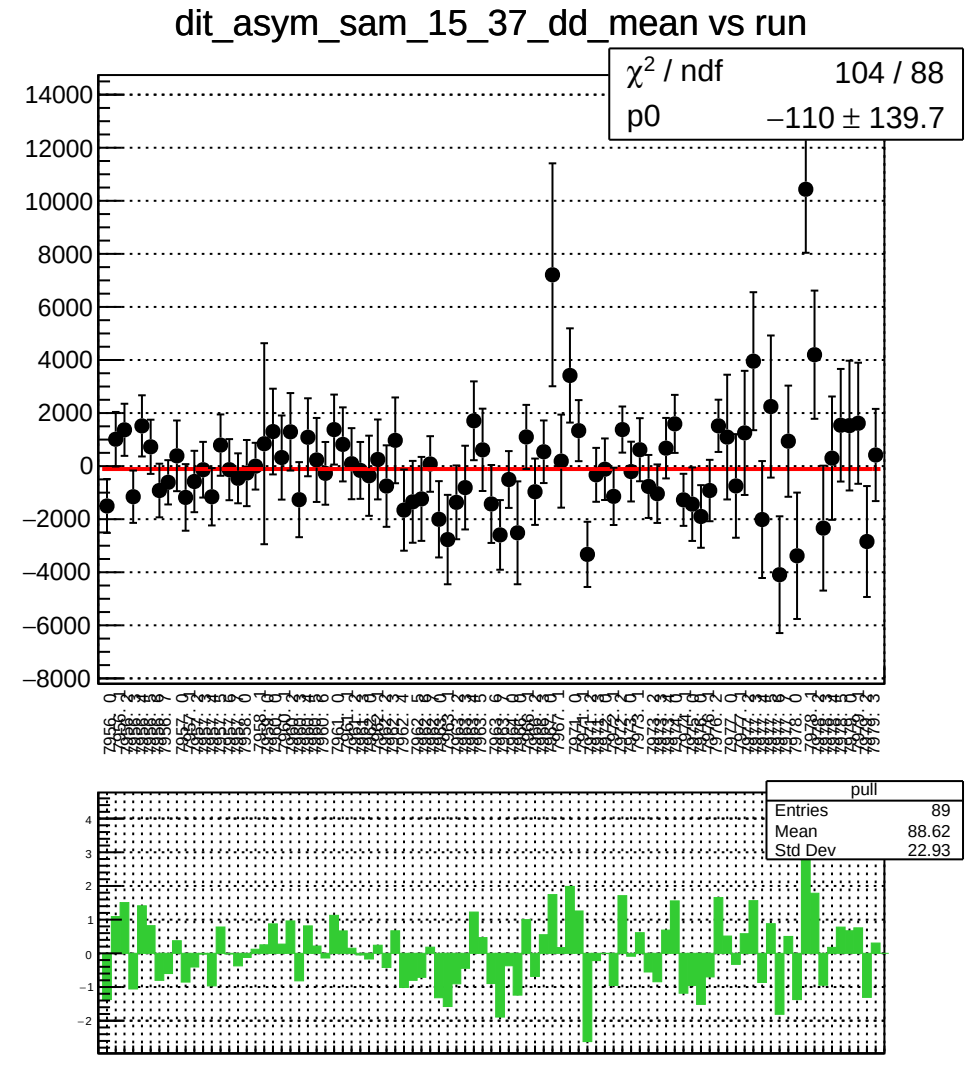

pull1D
Entries 89
Mean 0.01499
Std Dev 1.037

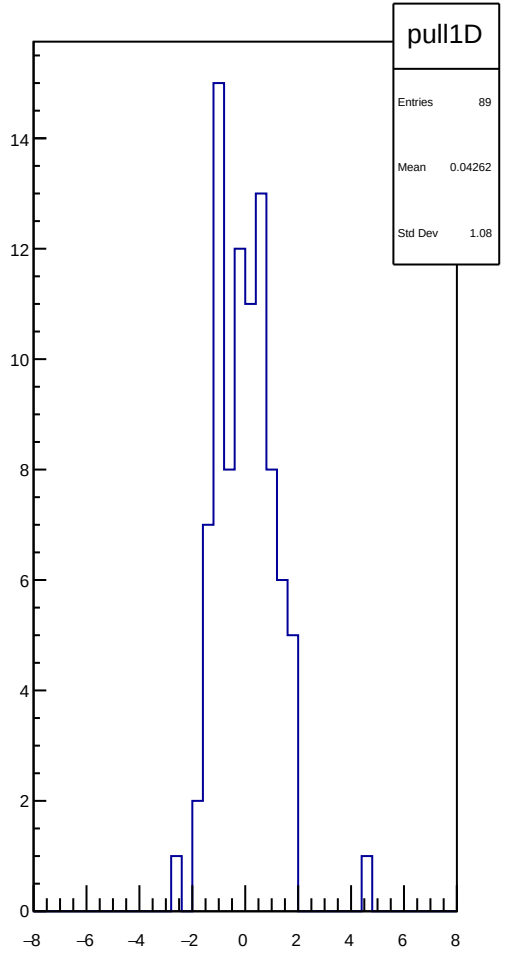

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.556e+04 / 88
p0 103.6 ± 0.07798
260
240
220
200
180
160
140
120
100
80

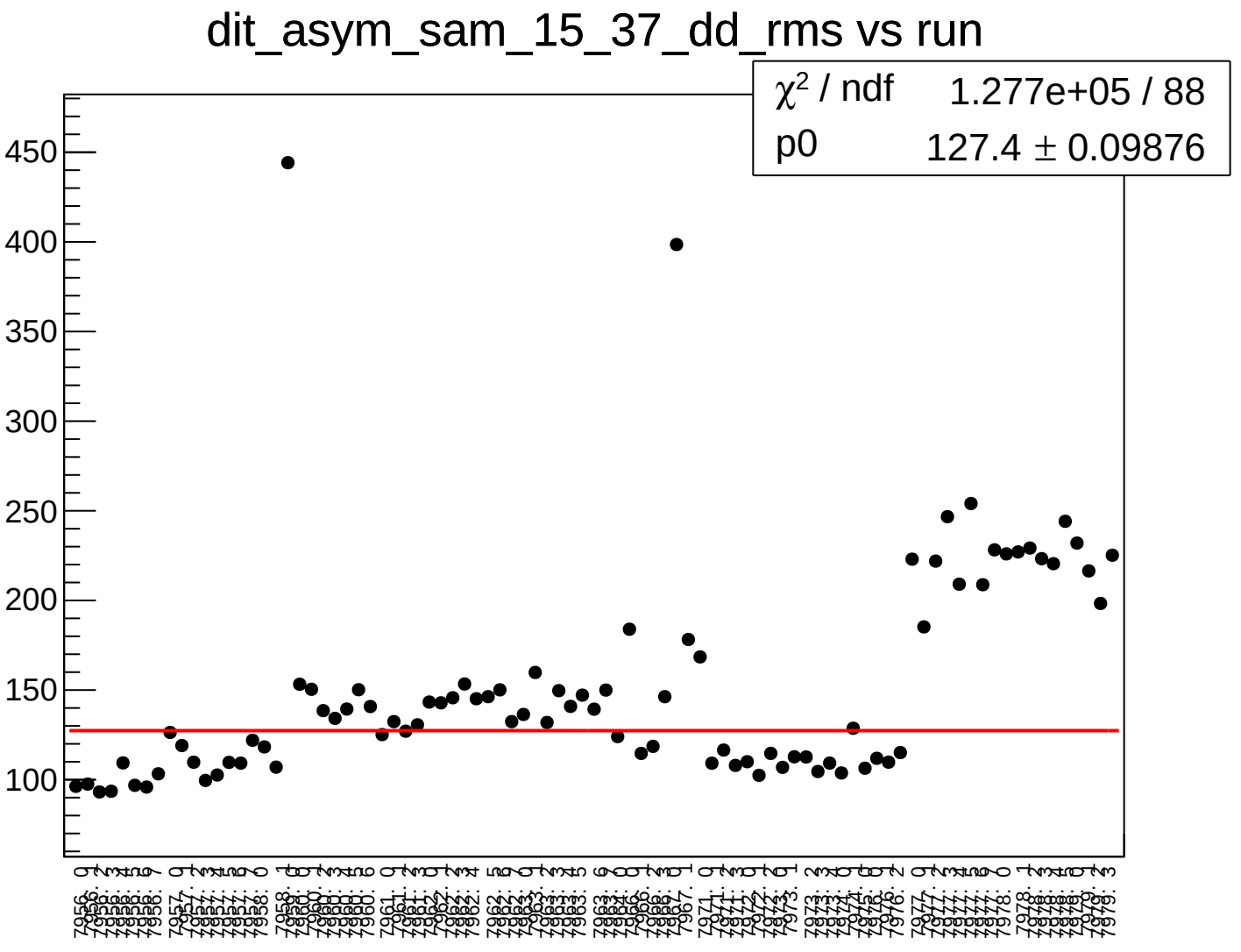

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 113.4 / 88
p0 −588.5 ± 1209
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 540.1
Std Dev 0
2
1
0
−1
−2
−3
−4

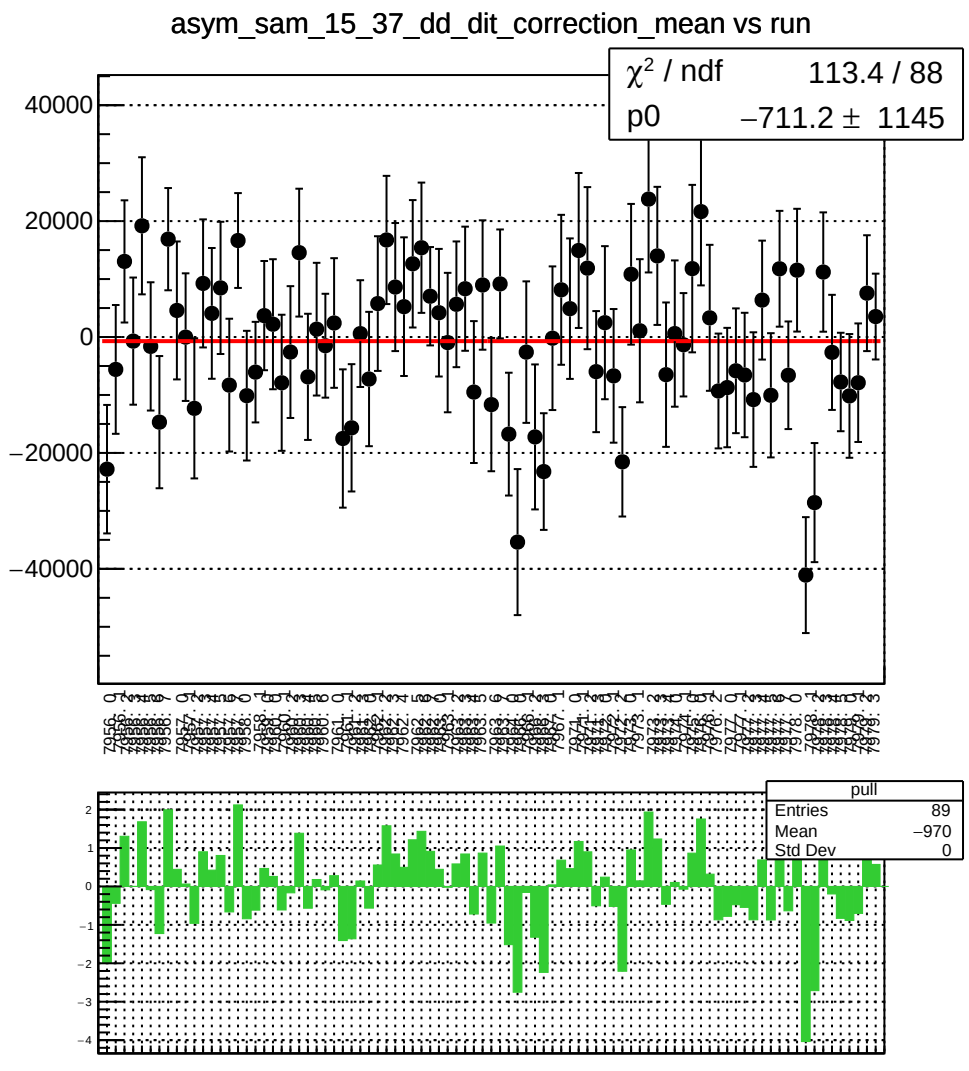

pull1D
Entries 89
Mean −0.007943
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

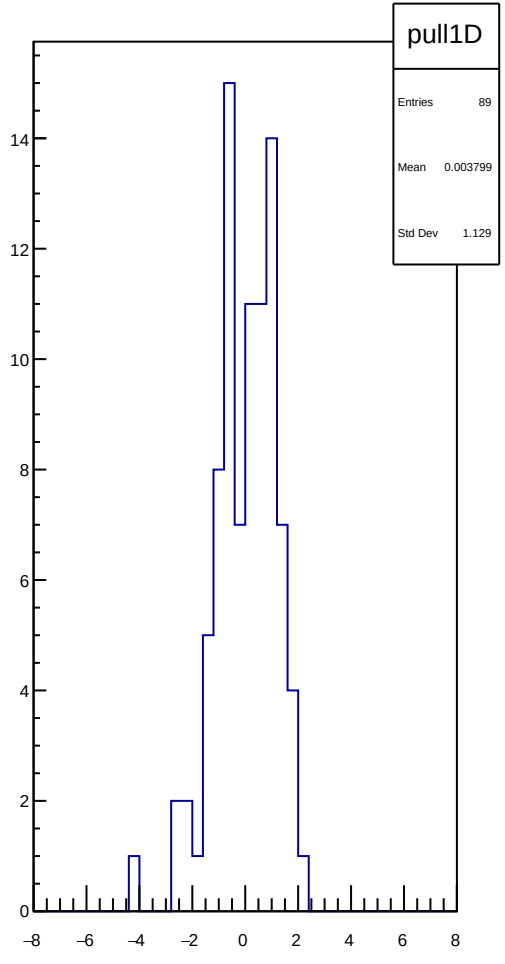

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.967e+04 / 88
p0 1138 ± 0.8551
1500
1400
1300
1200
1100
1000
900
800
700
600

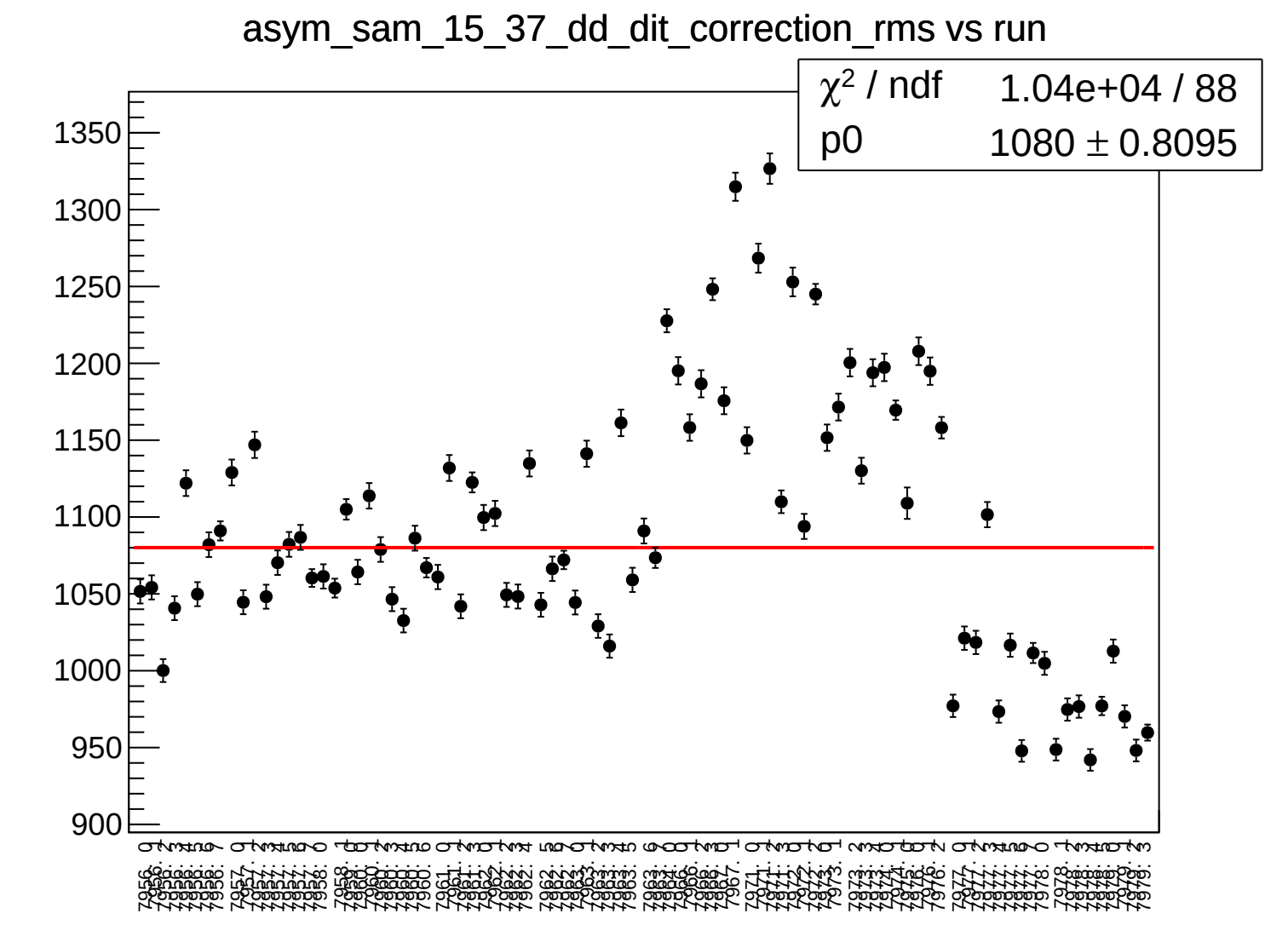

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 104 / 88
p0 −110 ± 139.7
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean 88.62
Std Dev 22.93
4
3
2
1
0
−1
−2

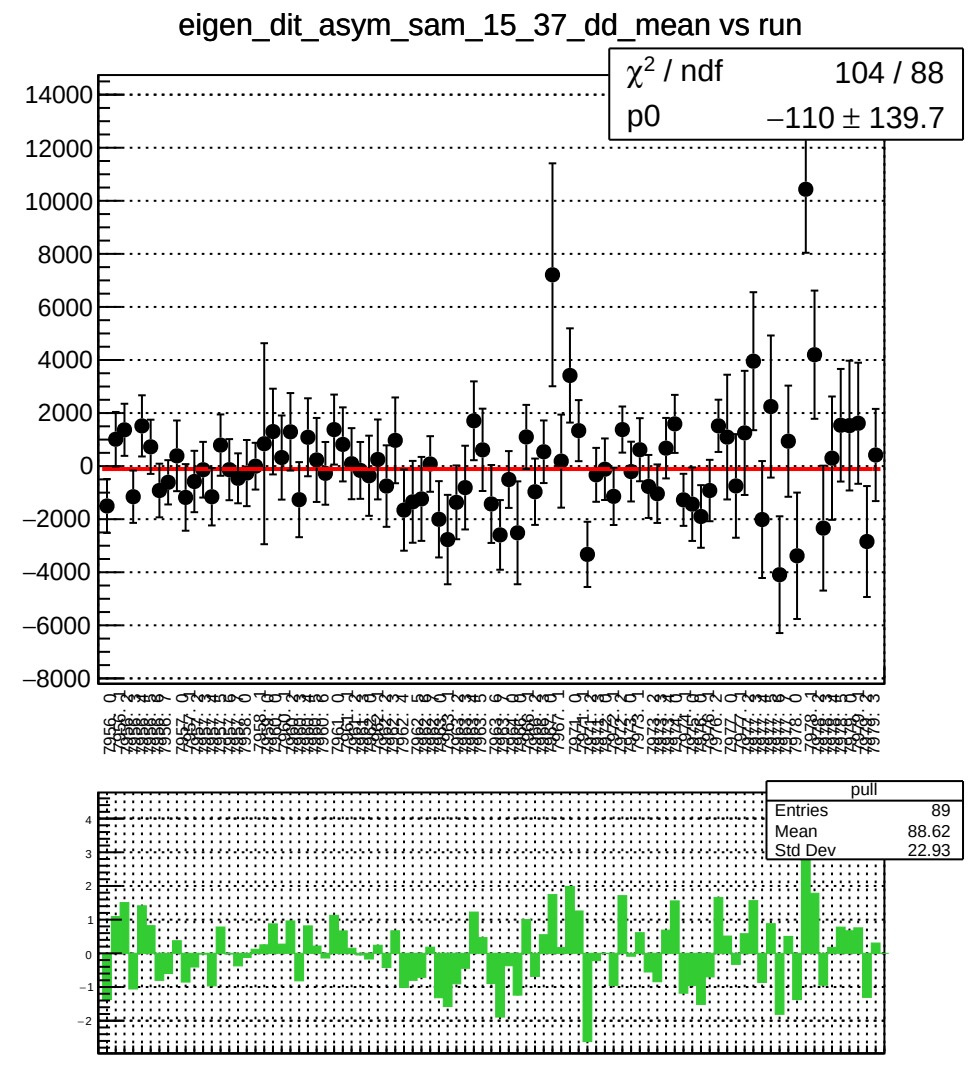

pull1D
Entries 89
Mean 0.04262
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

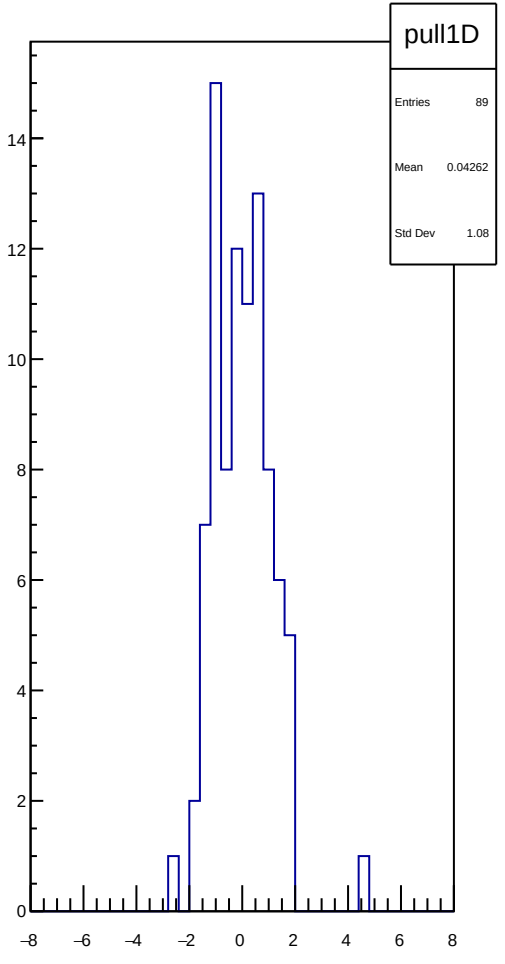

dit_asym_sam_15_37_dd_rms vs run
$\chi^2$ / ndf 1.277e+05 / 88
p0 127.4 ± 0.09876
450
400
350
300
250
200
150
100

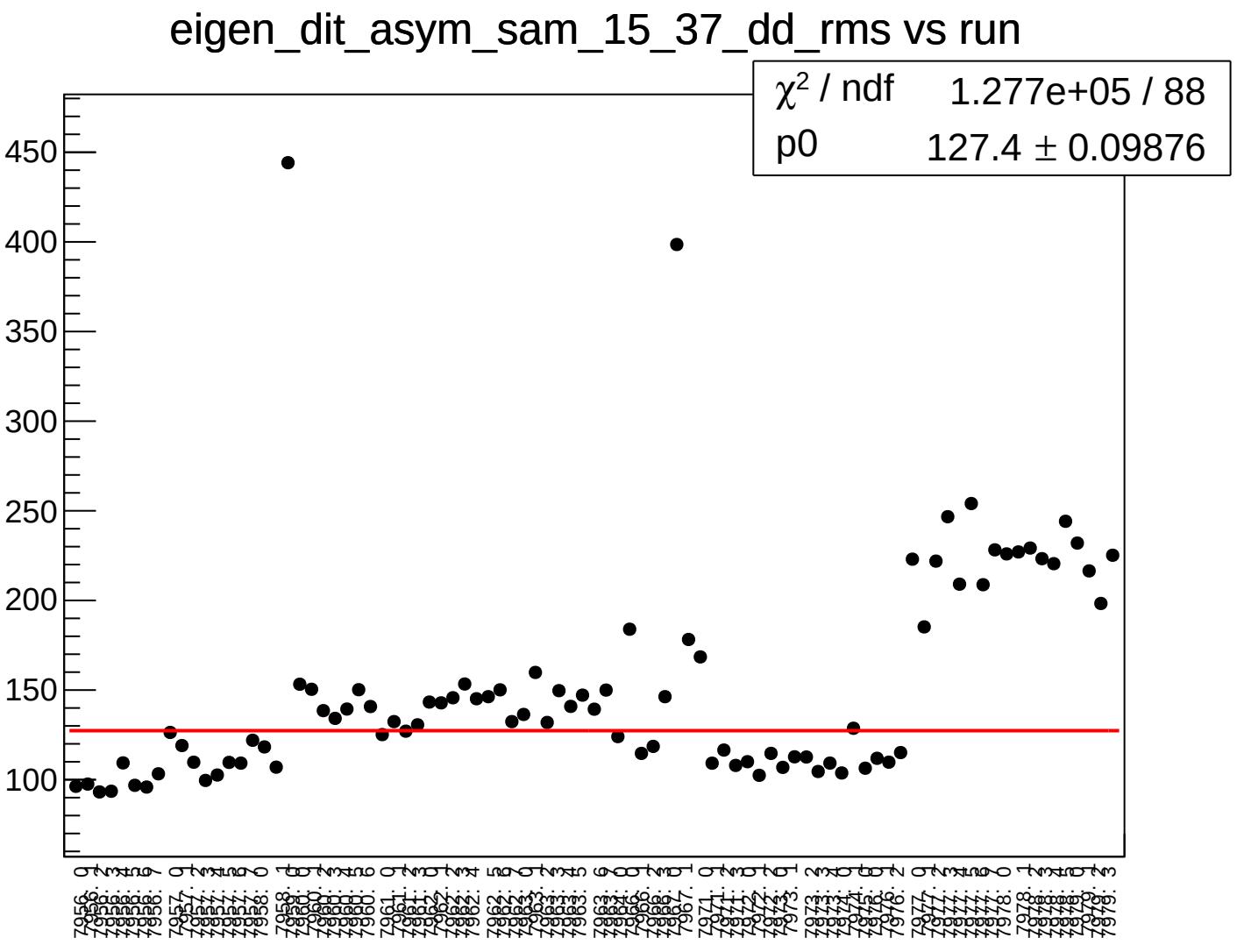

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 113.4 / 88
p0 −711.2 ± 1145
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −970
Std Dev 0
2
1
0
−1
−2
−3
−4

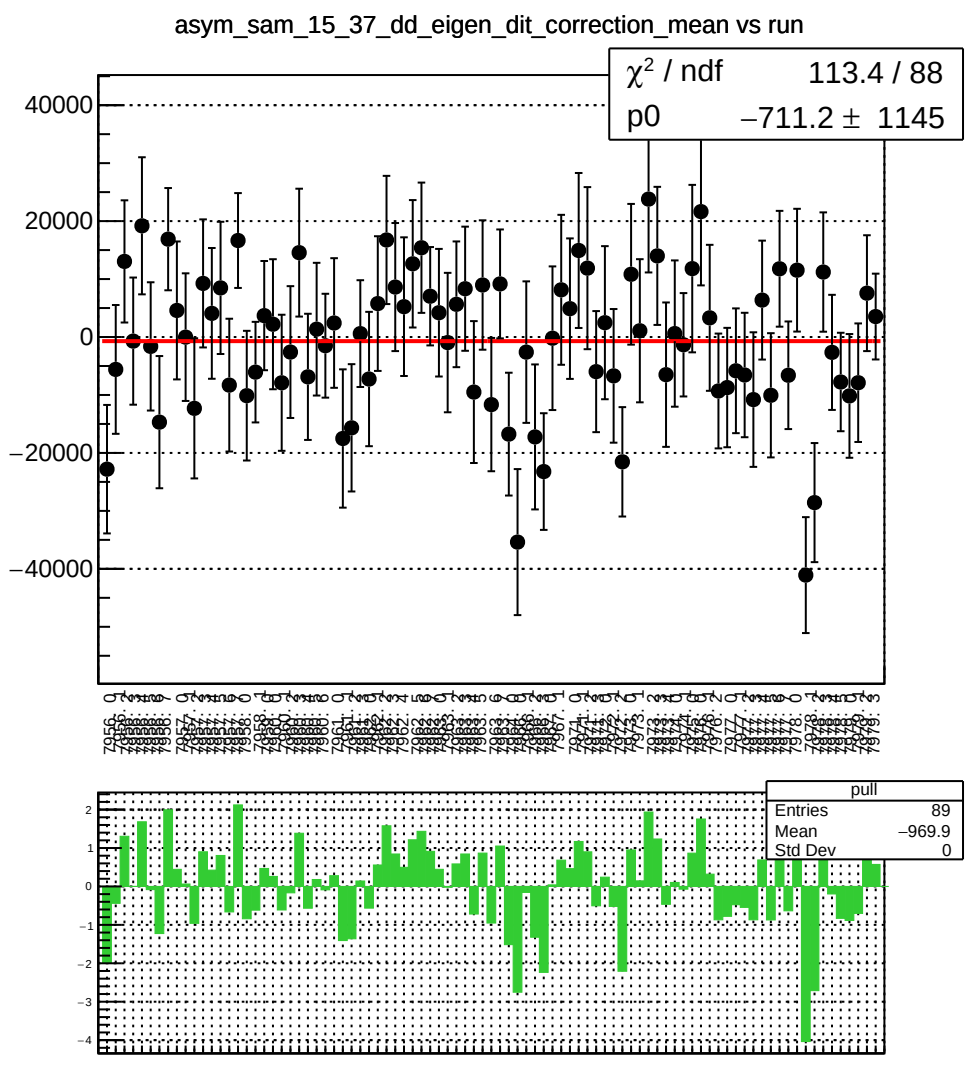

pull1D
Entries 89
Mean 0.003799
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

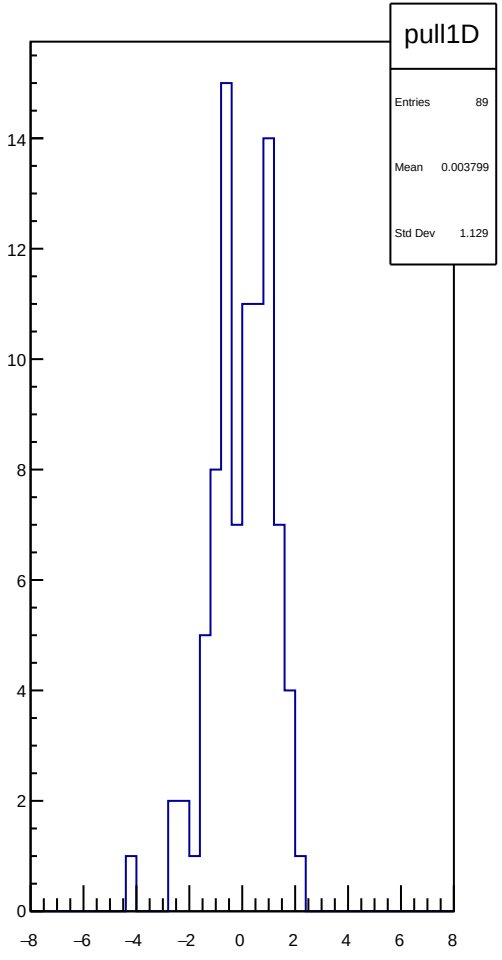

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.04e+04 / 88
p0 1080 ± 0.8095
1350
1300
1250
1200
1150
1100
1050
1000
950
900

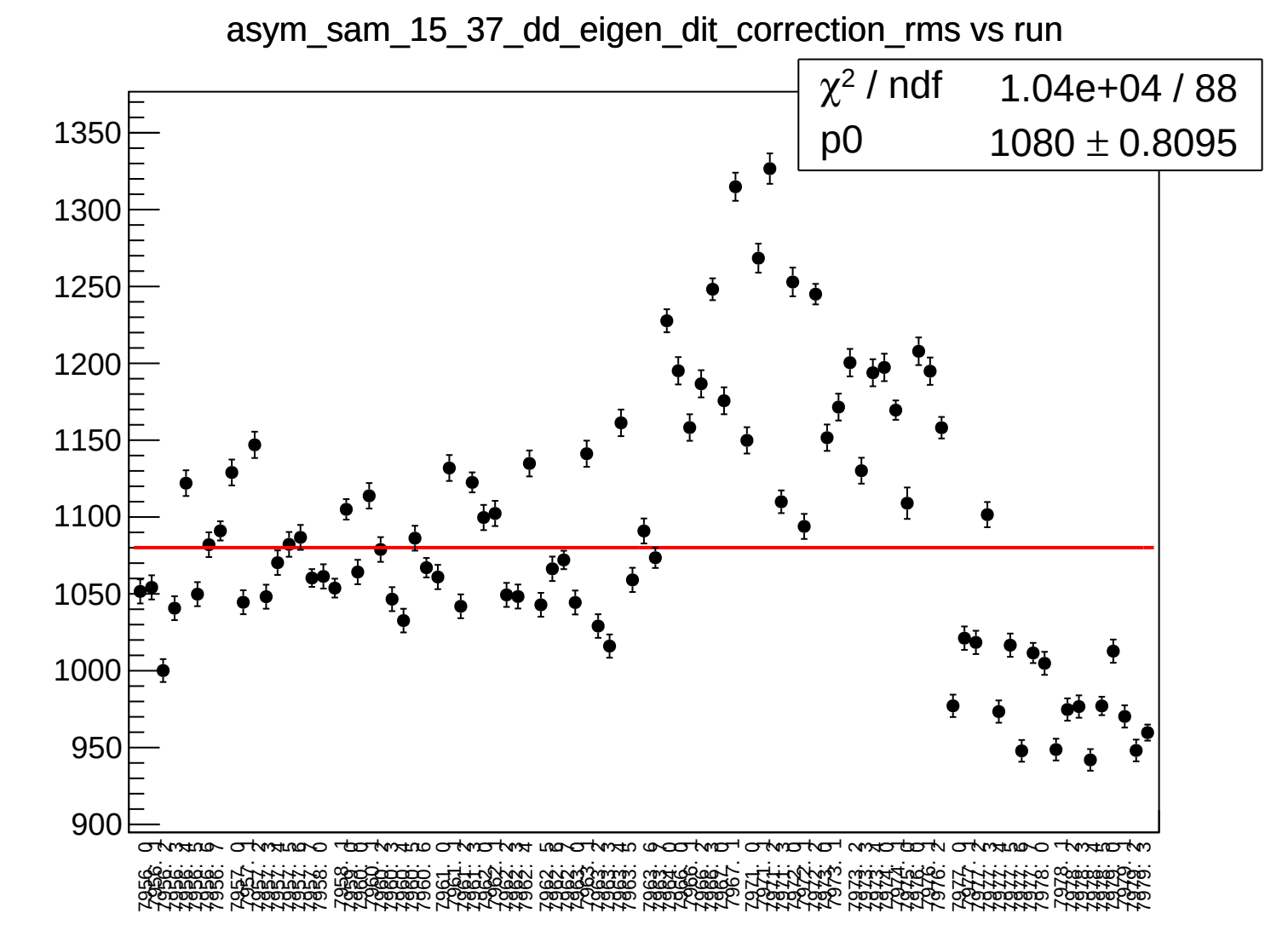

eigen_dit_asym_sam_15_37_dd_mean vs run
$\chi^2$ / ndf 104 / 88
p0 −110 ± 139.7
pull
Entries 89
Mean 88.62
Std Dev 22.93

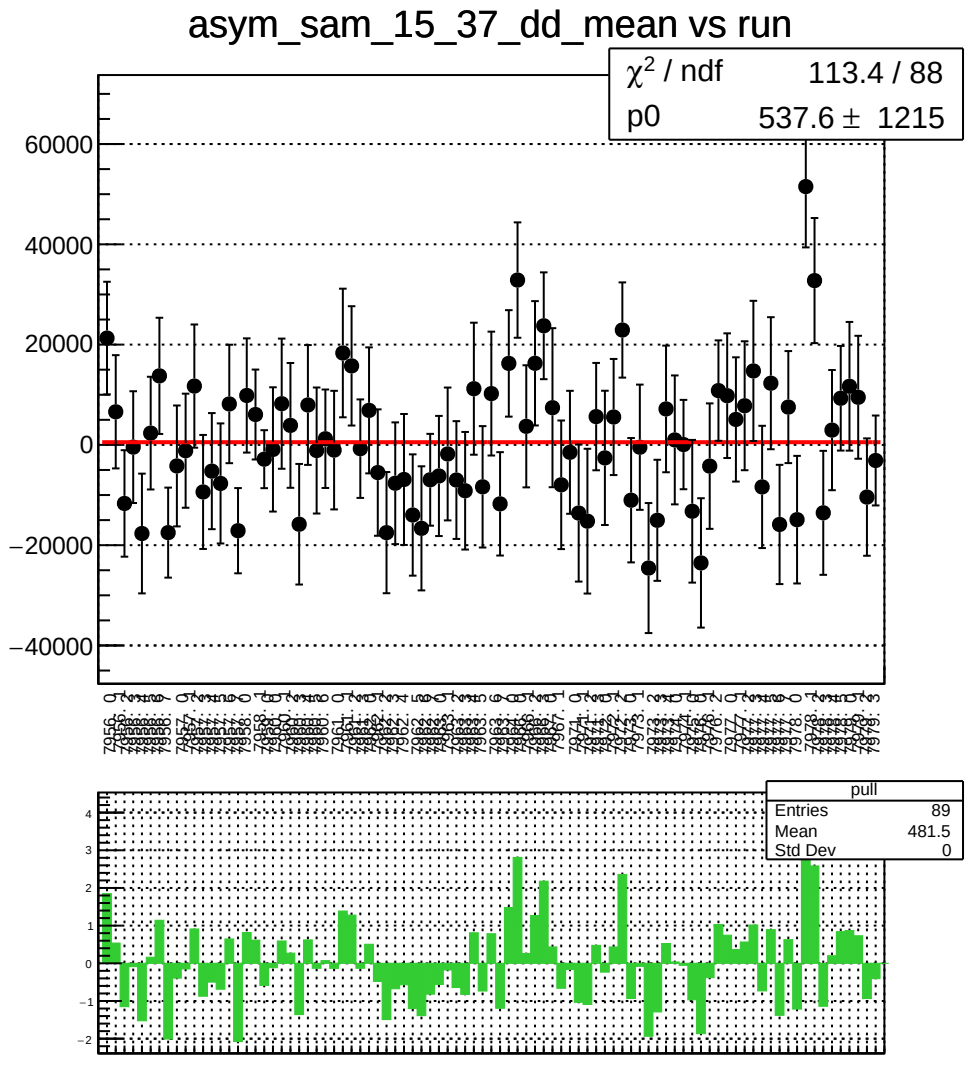

pull1D
Entries 89
Mean 0.04262
Std Dev 1.08

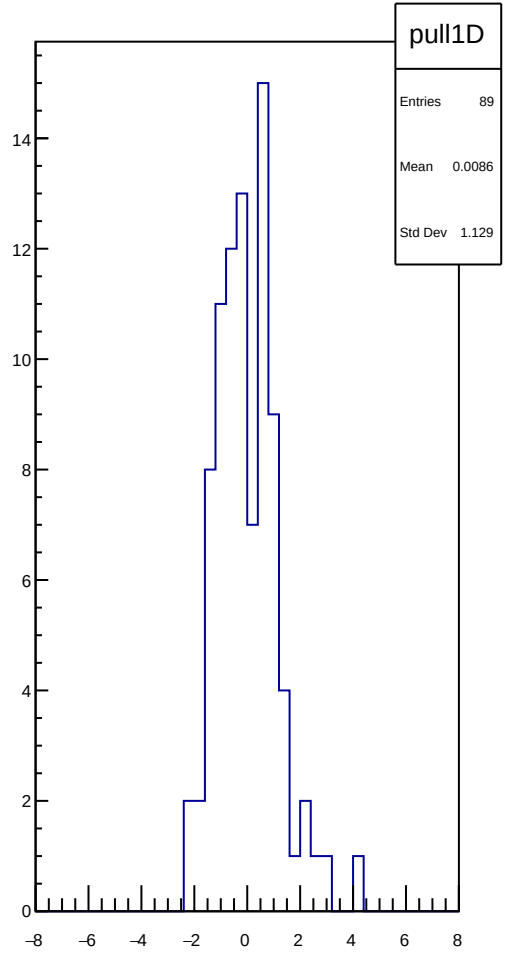

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.277e+05 / 88
p0 127.4 ± 0.09876
450
400
350
300
250
200
150
100

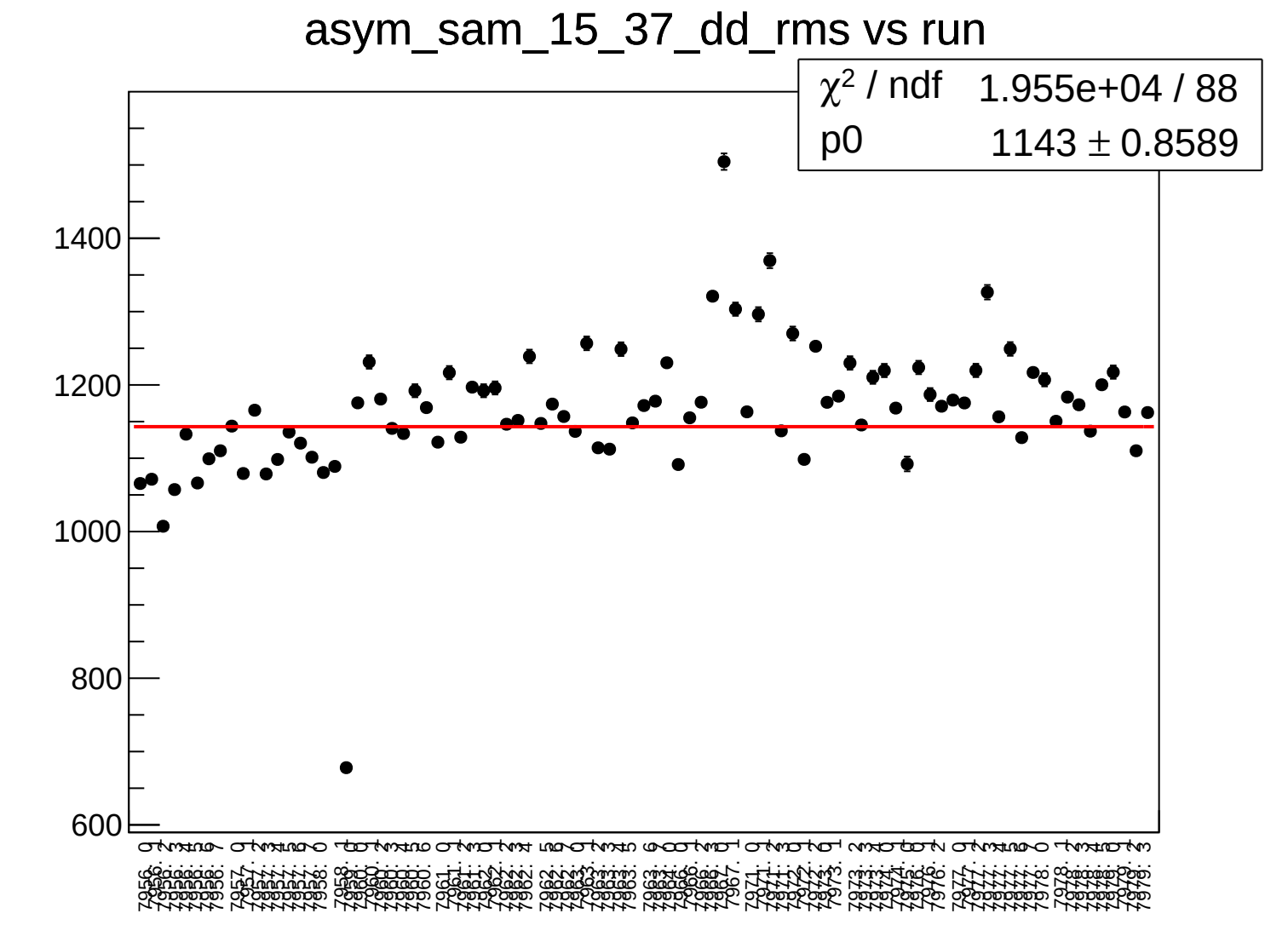

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.4 / 88
p0 −711.2 ± 1145
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −969.9
Std Dev 0
2
1
0
−1
−2
−3
−4

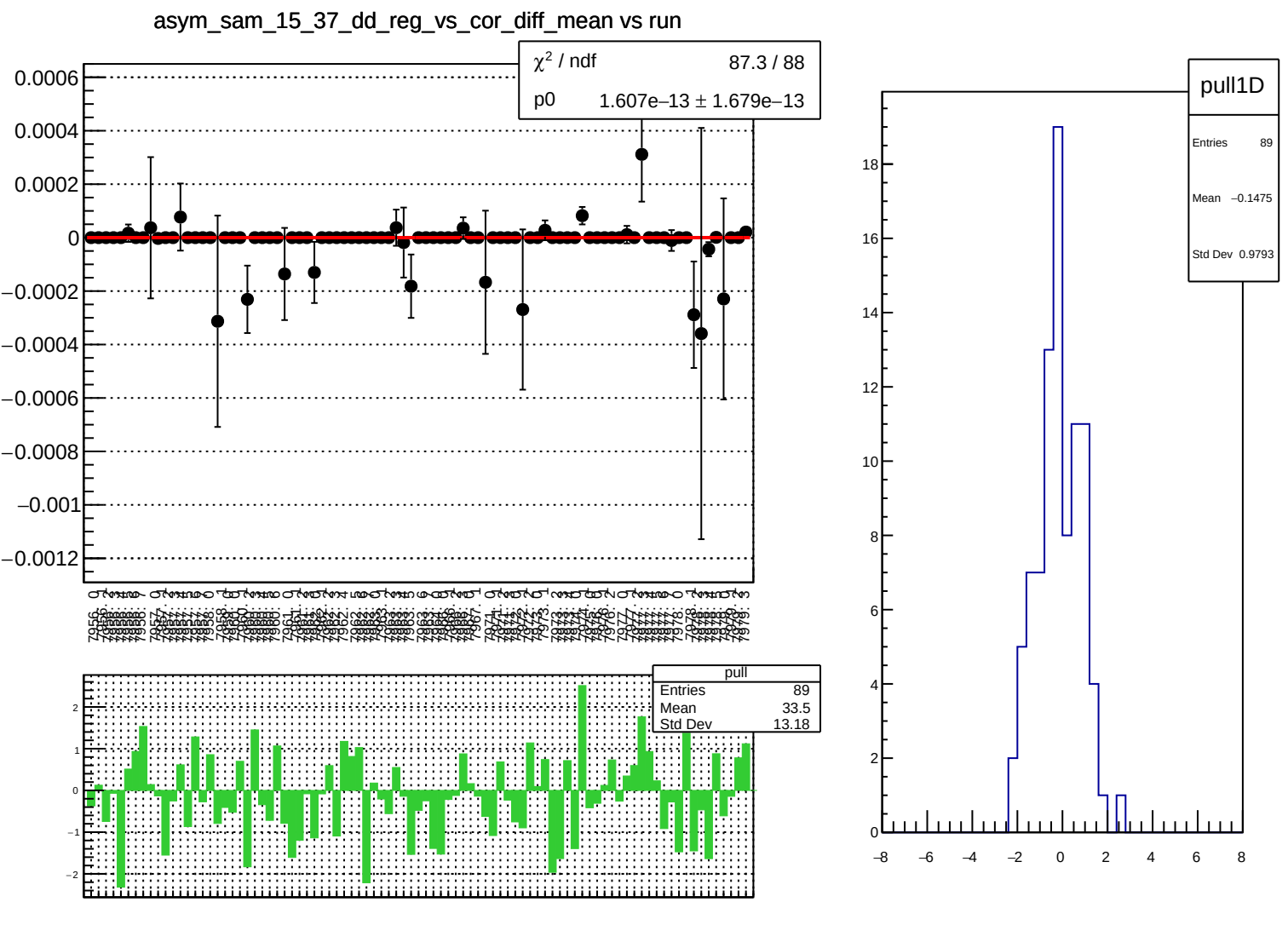

pull1D
Entries 89
Mean 0.003799
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

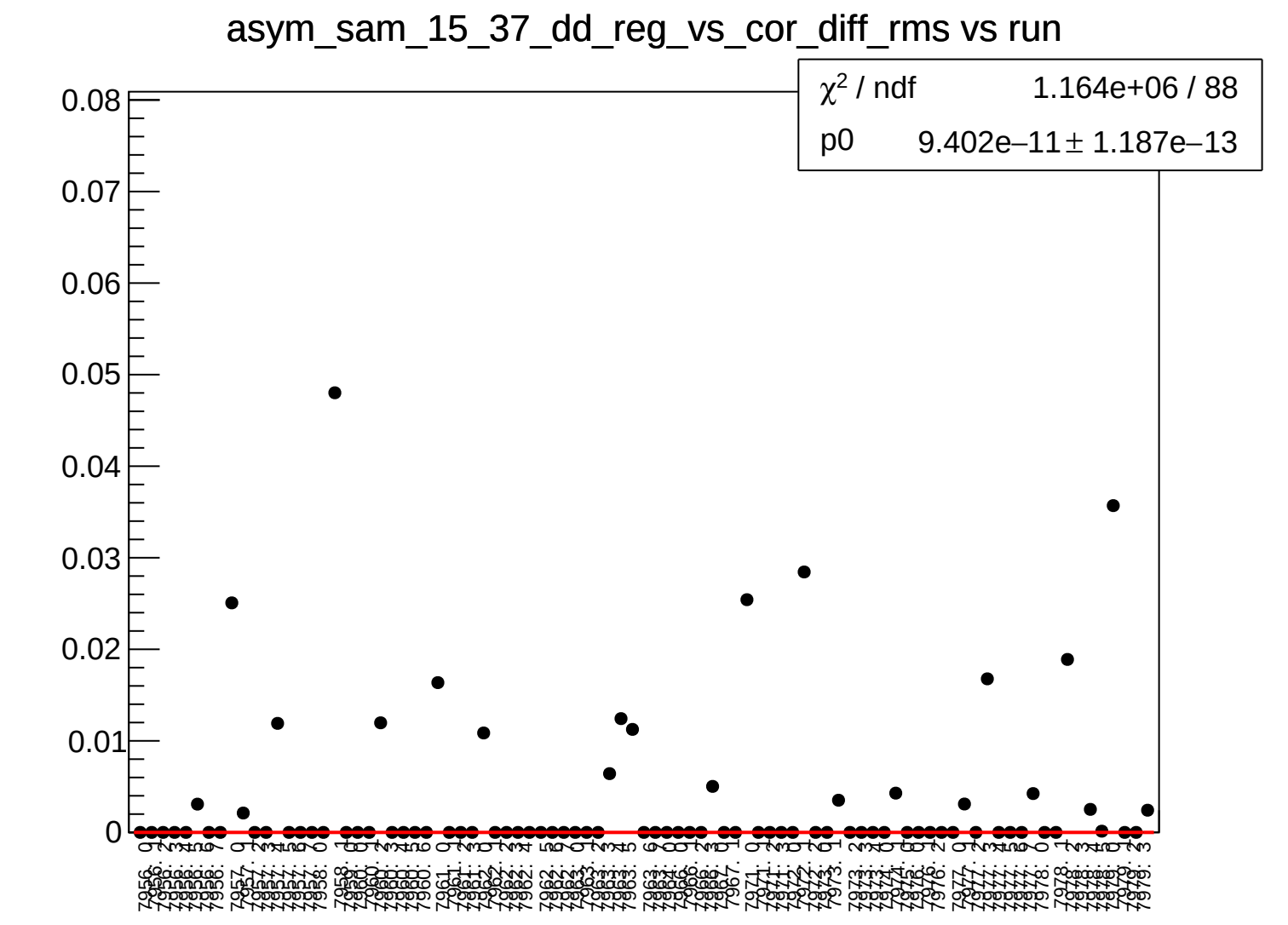

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.04e+04 / 88
p0 1080 ± 0.8095
1350
1300
1250
1200
1150
1100
1050
1000
950
900

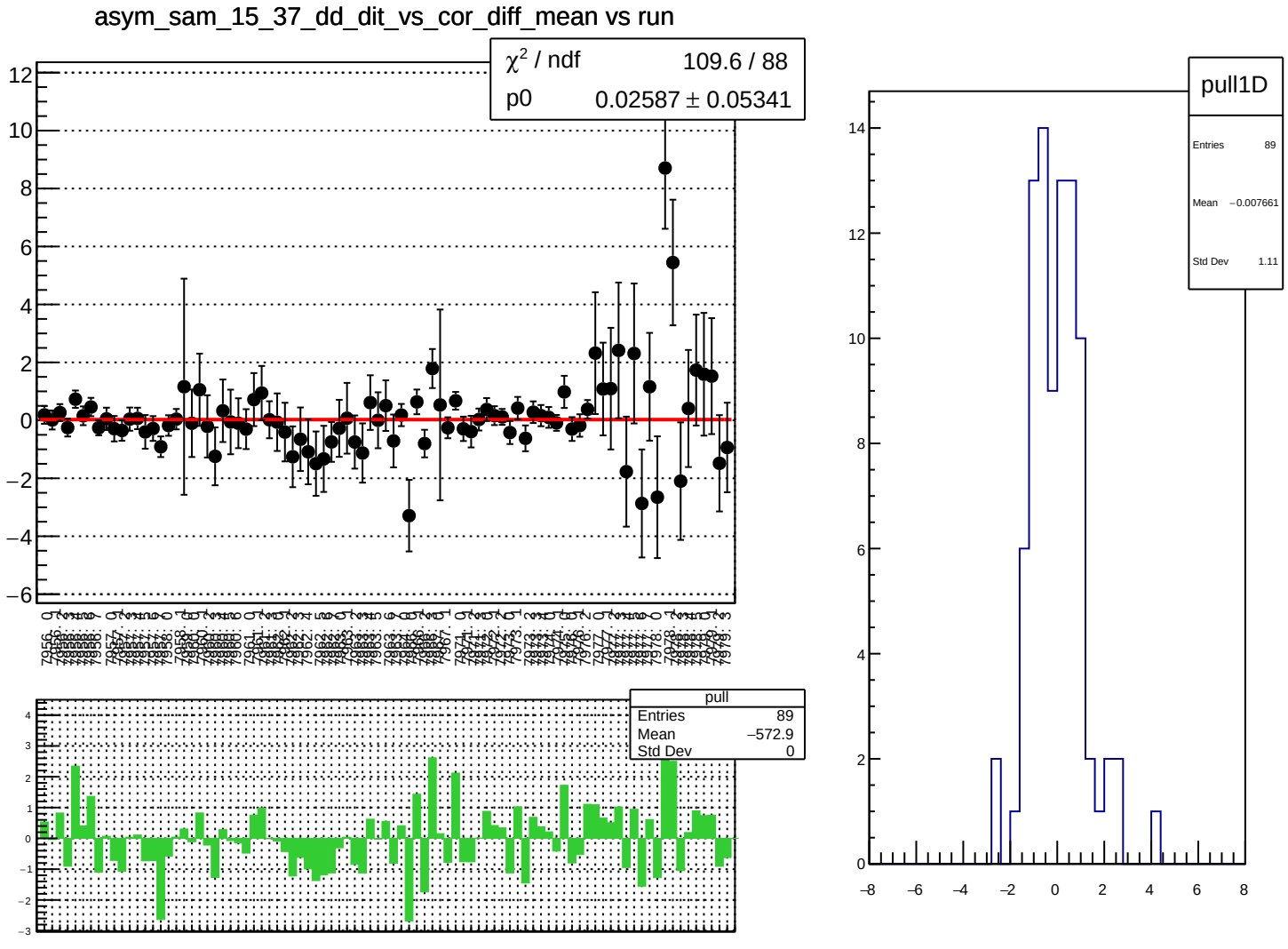

asym_sam_15_37_dd_mean vs run
χ² / ndf 113.4 / 88
p0 537.6 ± 1215
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 481.5
Std Dev 0
4
3
2
1
0
−1
−2

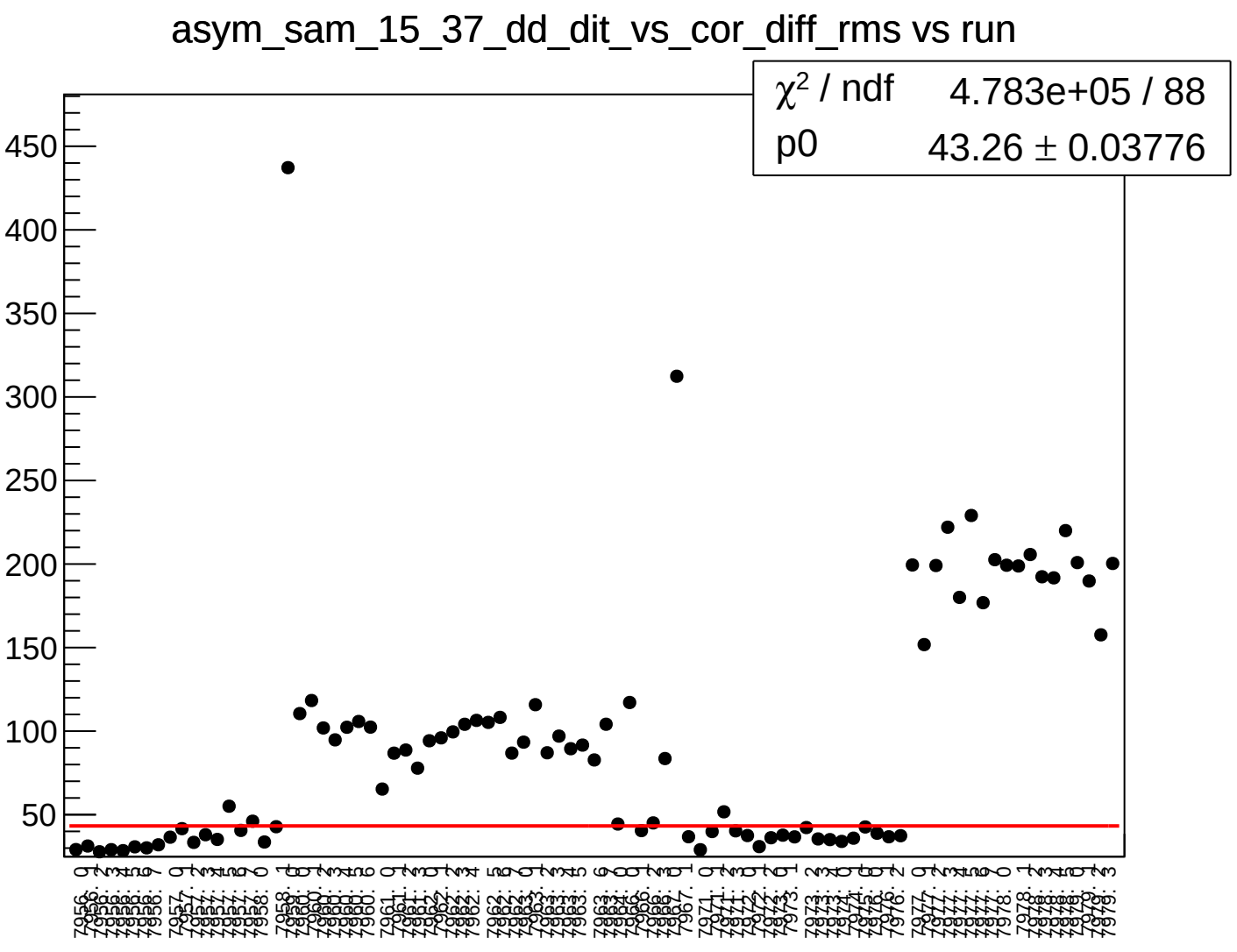

pull1D
Entries 89
Mean 0.0086
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

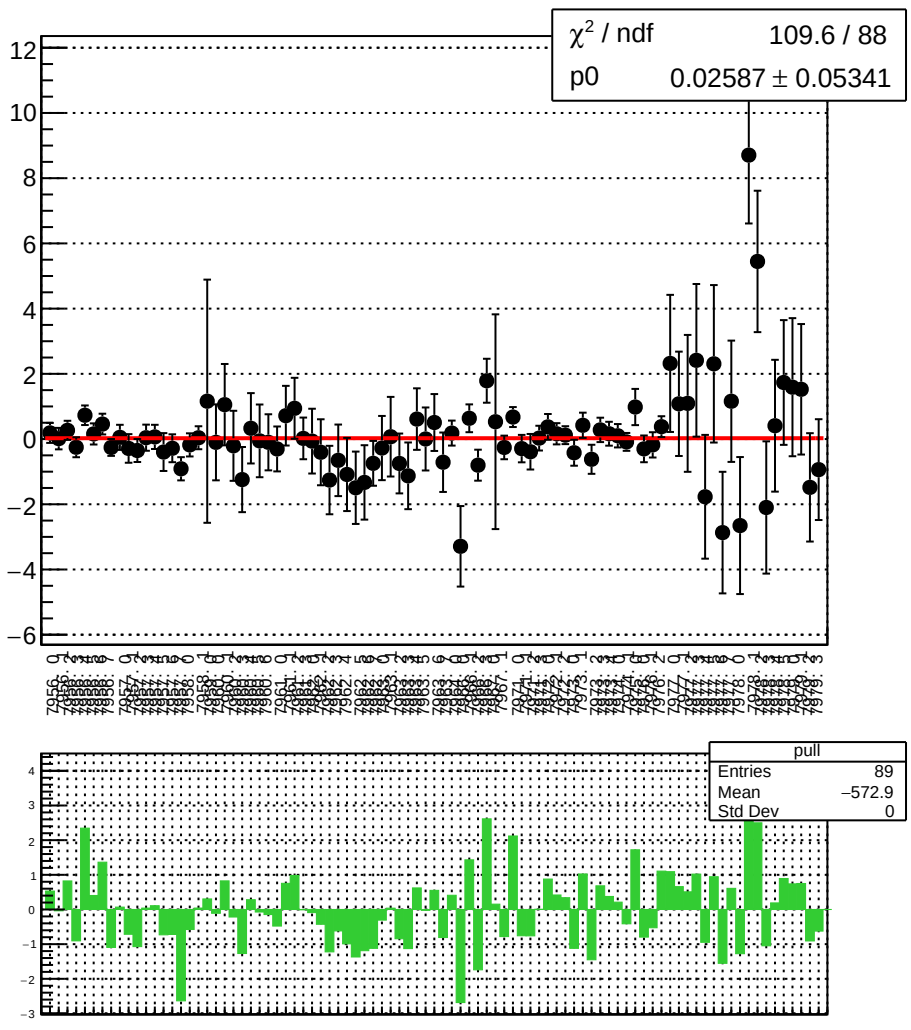

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.955e+04 / 88
p0 1143 ± 0.8589
1400
1200
1000
800
600

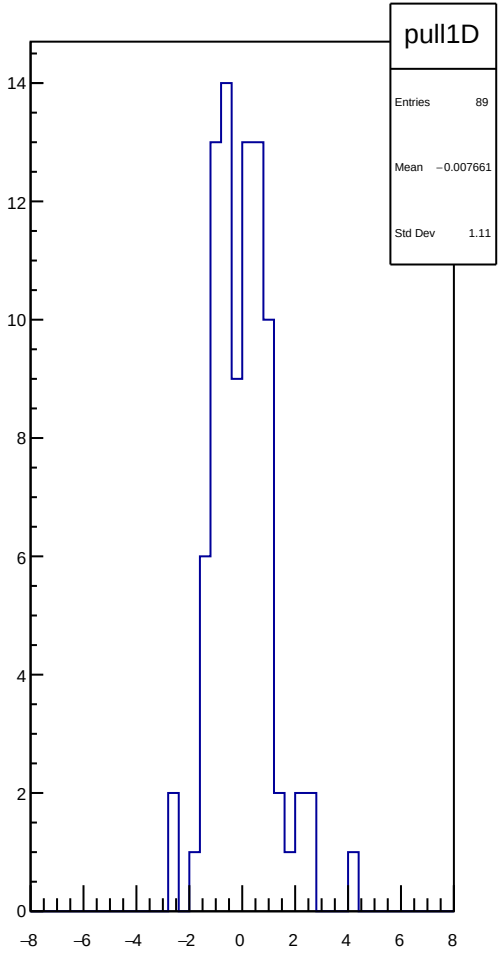

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.3 / 88
p0 1.607e−13 ± 1.679e−13
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 89
Mean 33.5
Std Dev 13.18
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.1475
Std Dev 0.9793
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

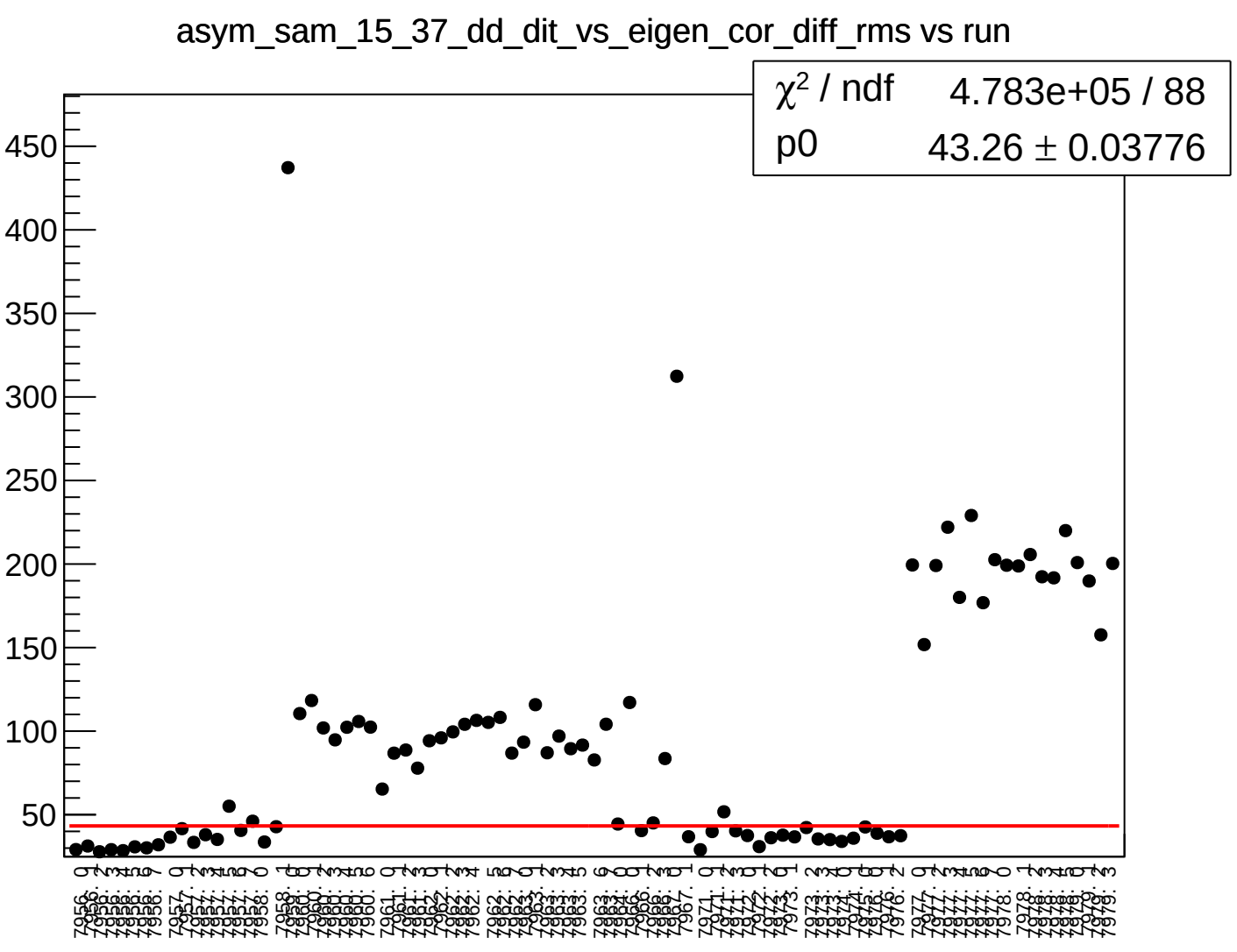

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.164e+06 / 88
p0 9.402e−11 ± 1.187e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

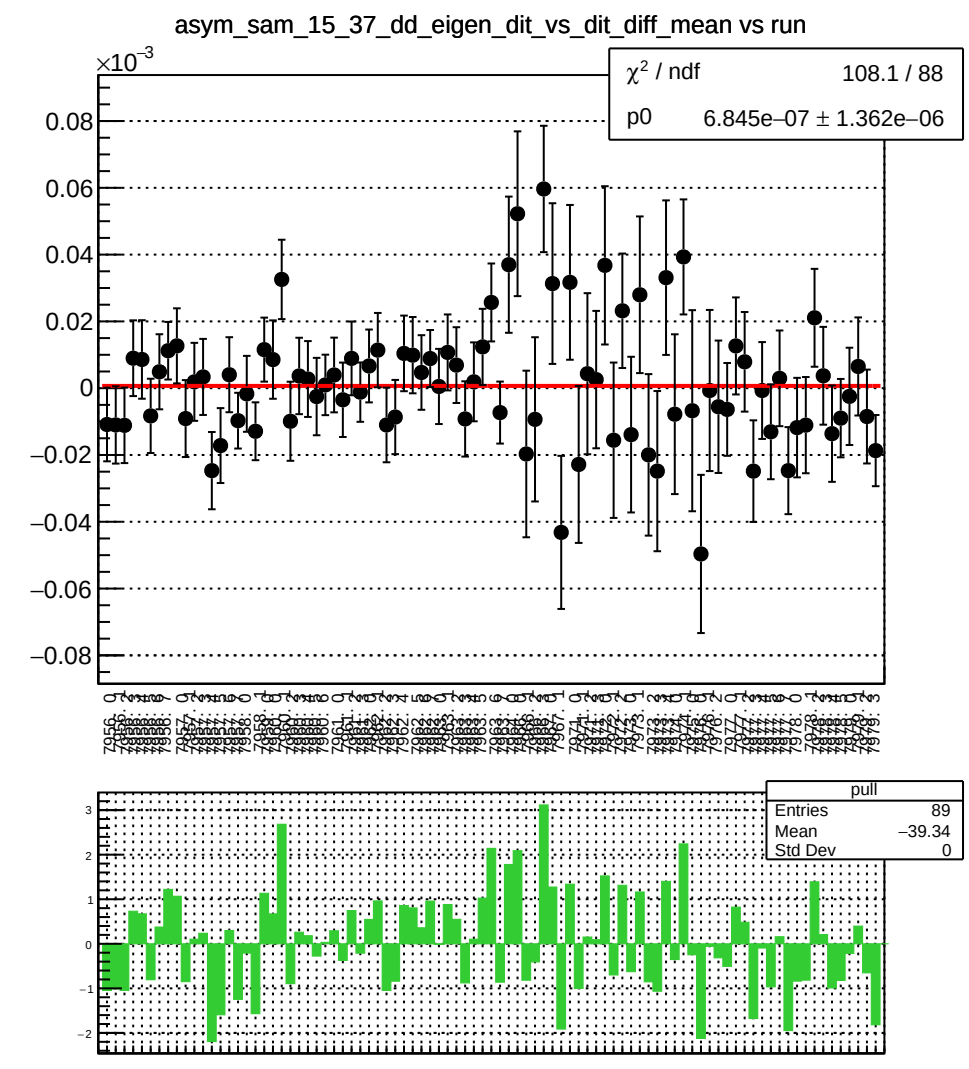

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 88
p0 0.02587 ± 0.05341
pull
Entries 89
Mean −572.9
Std Dev 0
pull1D
Entries 89
Mean −0.007661
Std Dev 1.11

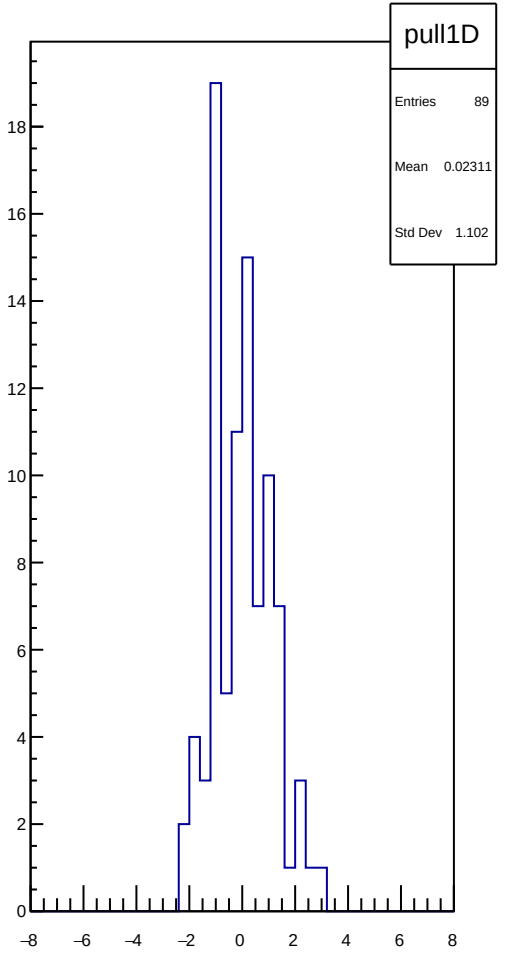

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.783e+05 / 88
p0 43.26 ± 0.03776
450
400
350
300
250
200
150
100
50

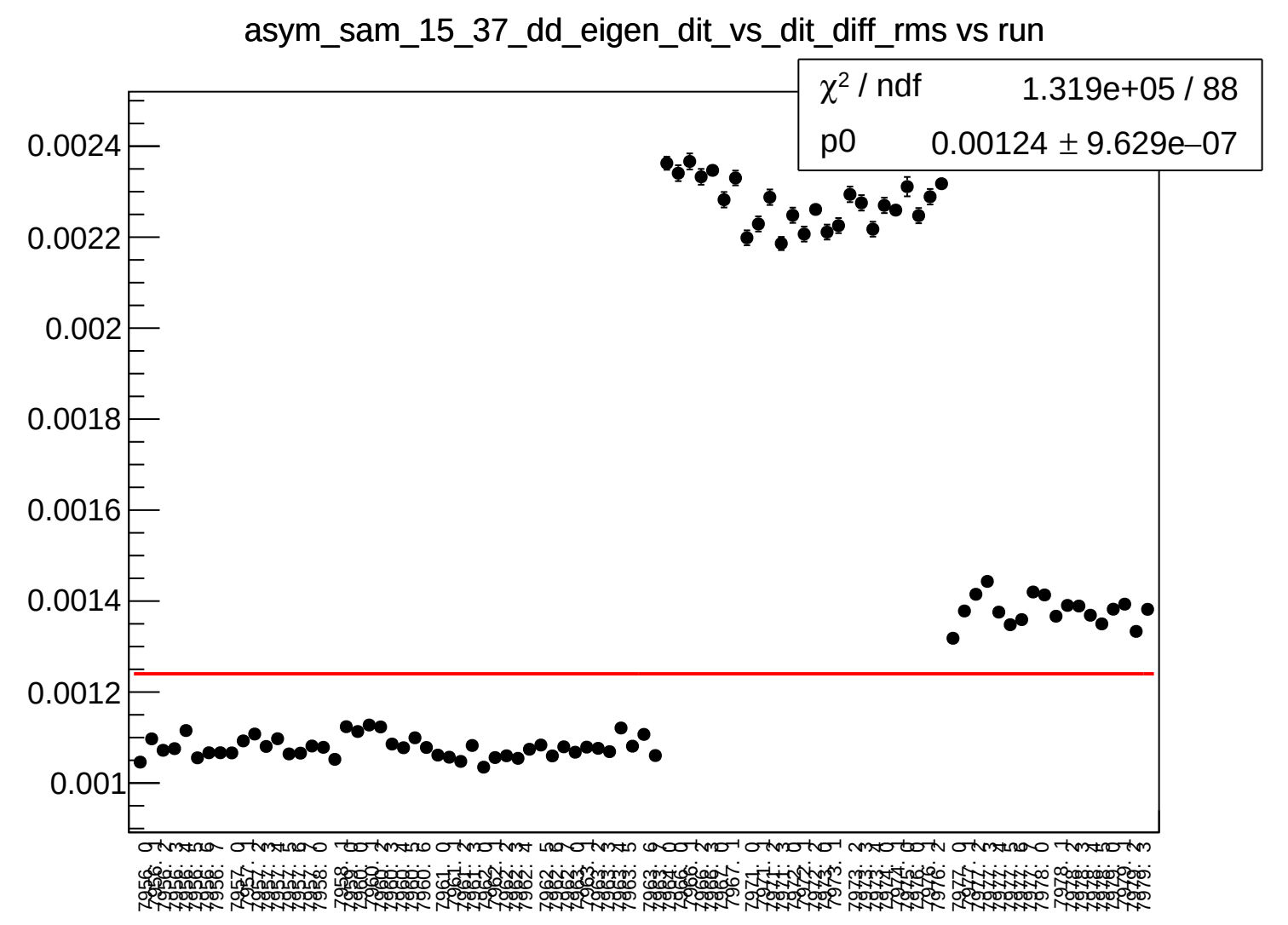

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 88
p0 0.02587 ± 0.05341
pull
Entries 89
Mean −572.9
Std Dev 0

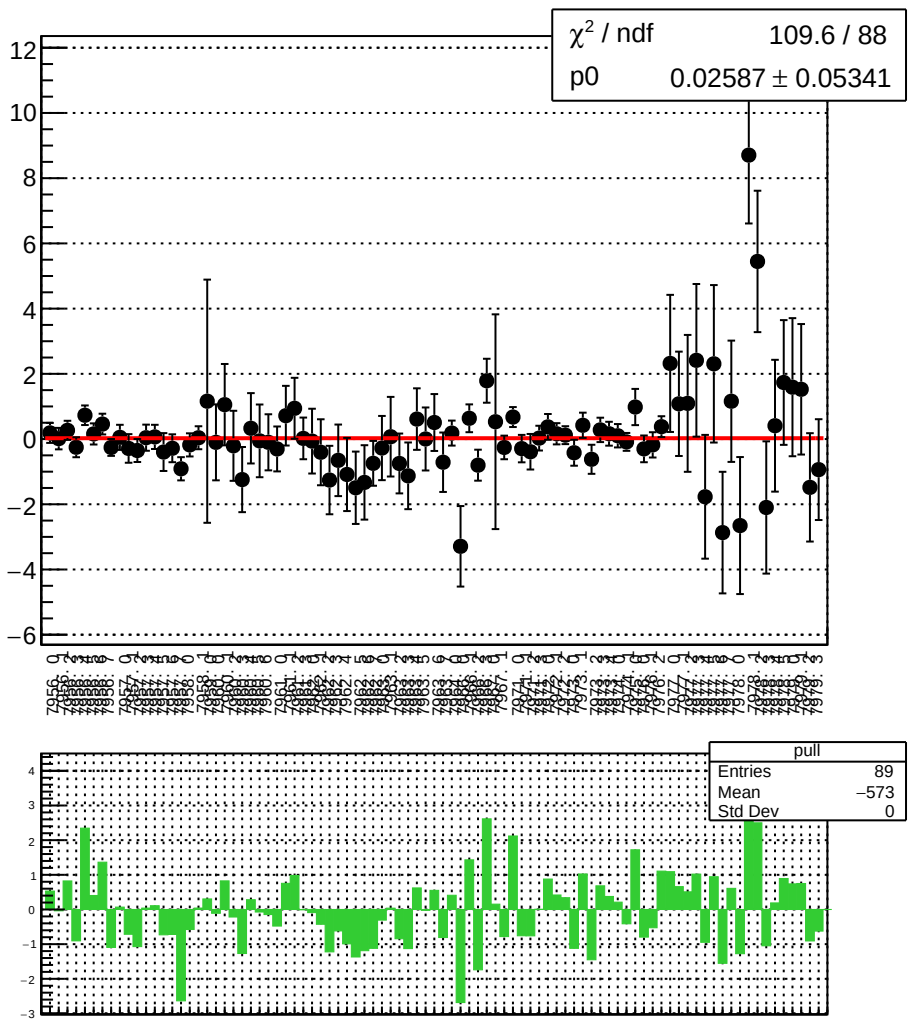

pull1D
Entries 89
Mean −0.007661
Std Dev 1.11

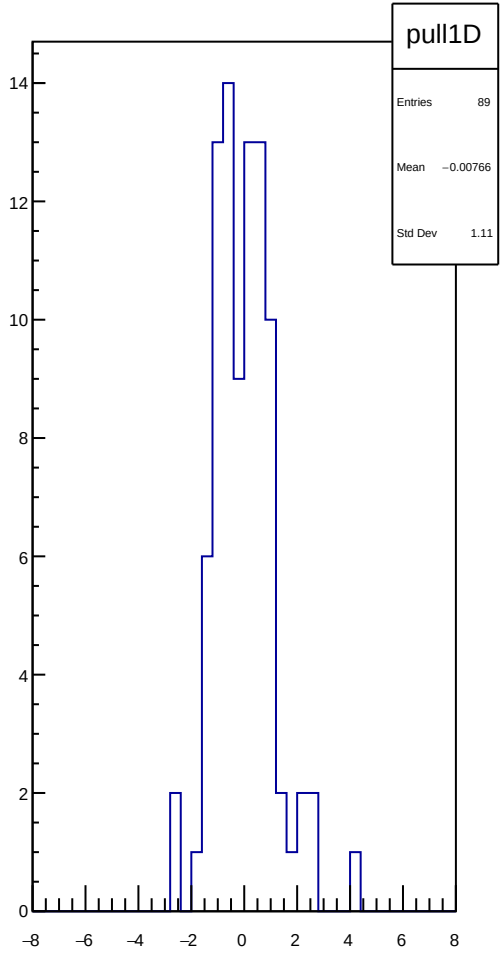

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 4.783e+05 / 88
p0 43.26 ± 0.03776
450
400
350
300
250
200
150
100
50

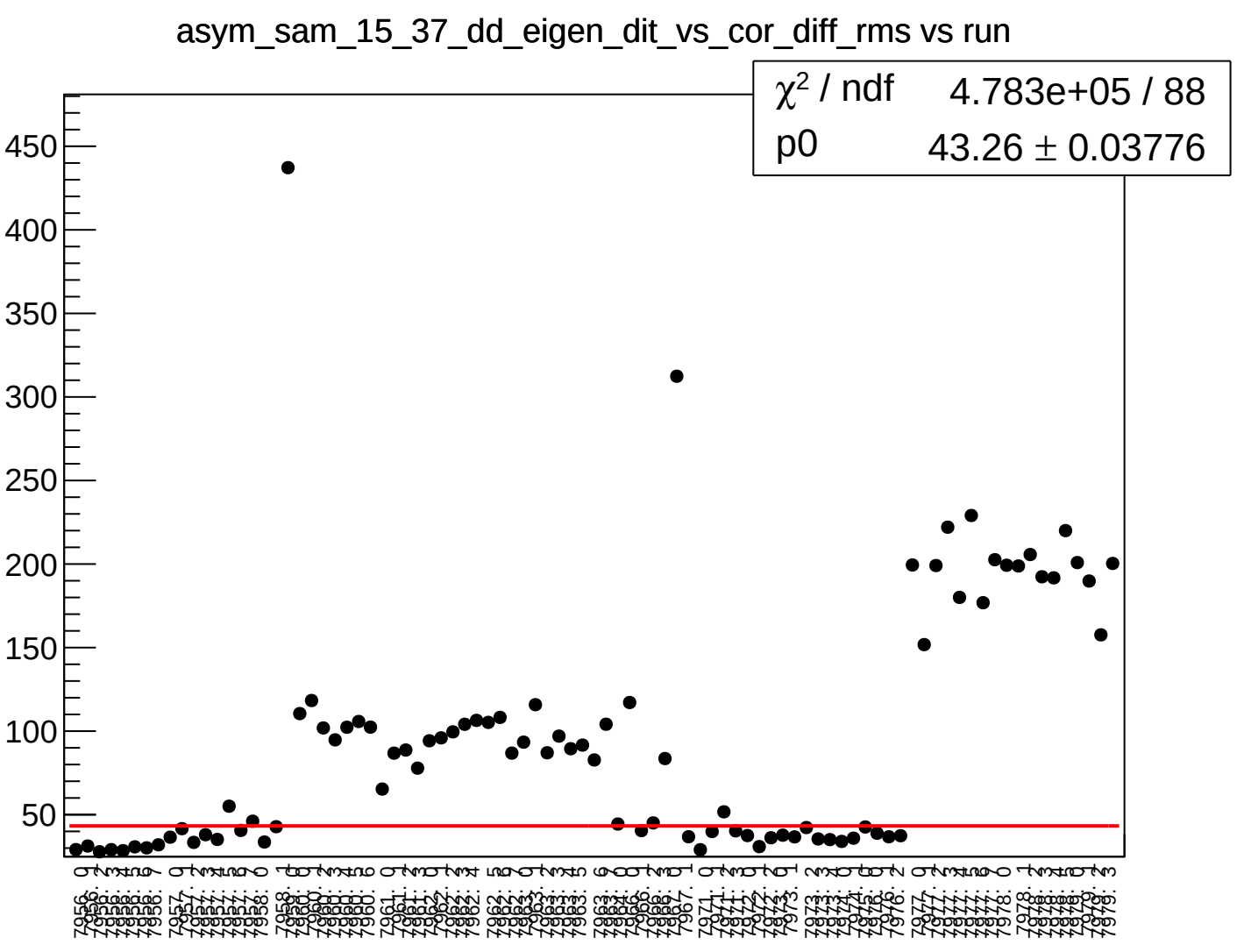

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.1 / 88
p0 6.845e−07 ± 1.362e−06
pull
Entries 89
Mean −39.34
Std Dev 0

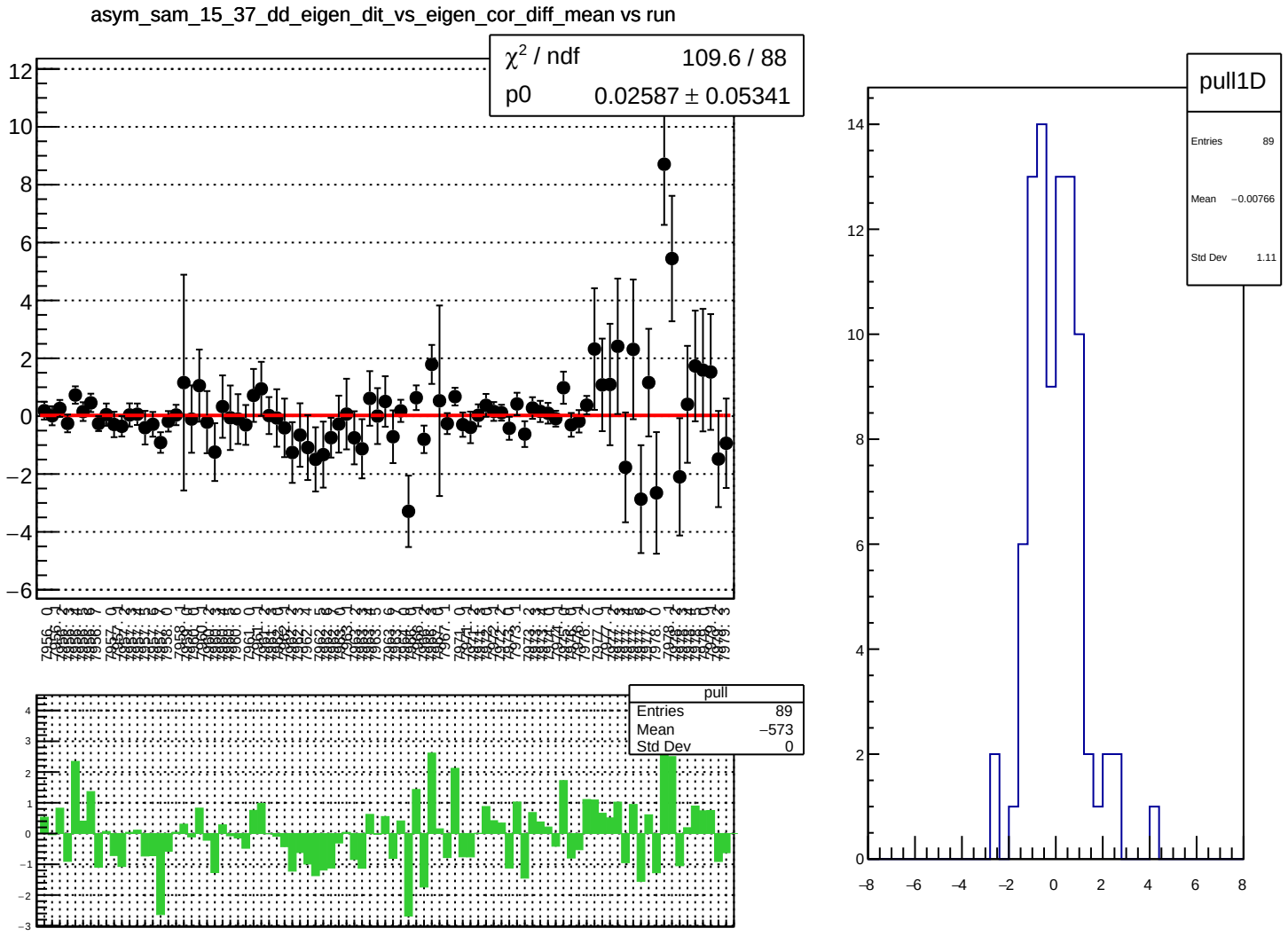

pull1D
Entries 89
Mean 0.02311
Std Dev 1.102

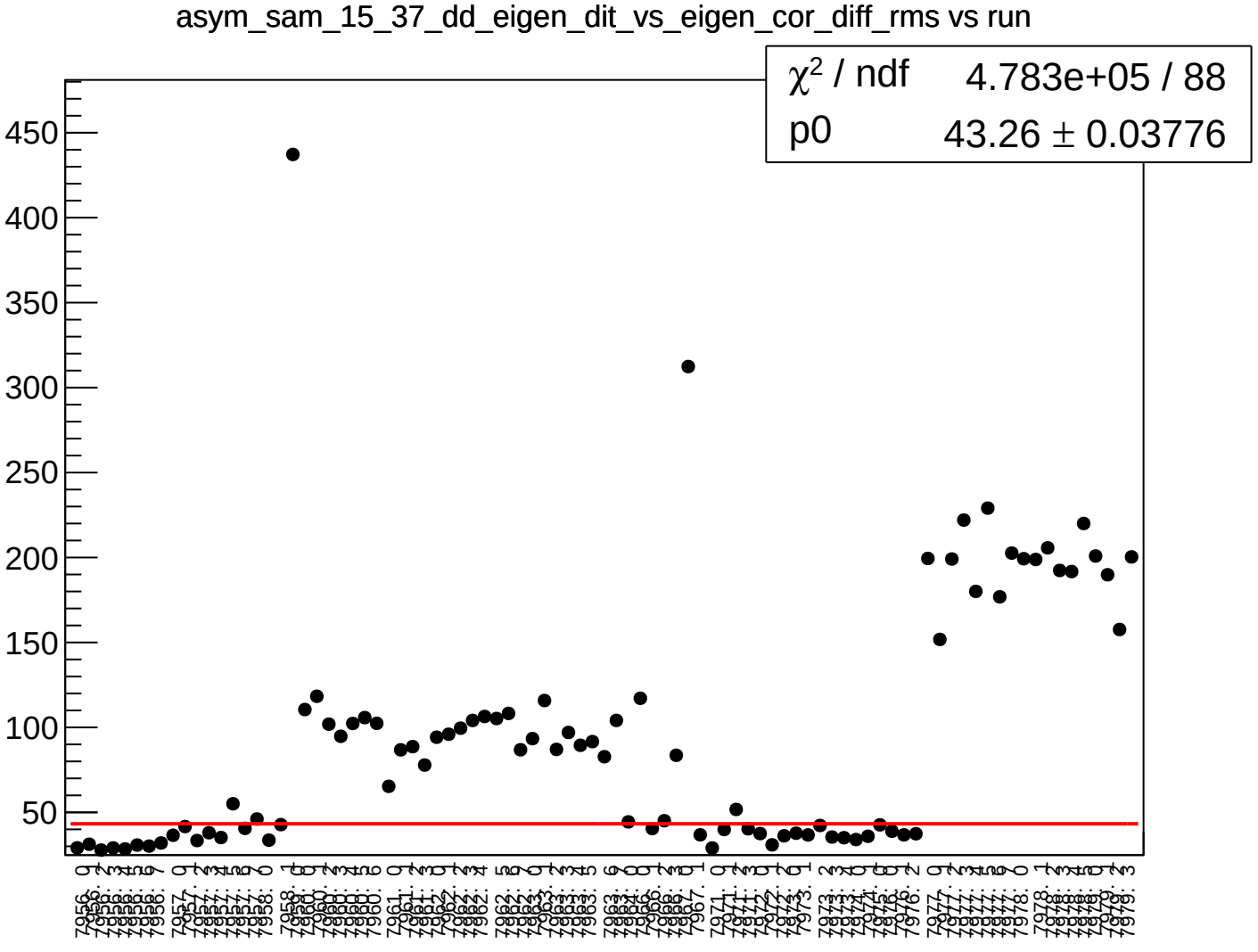

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.319e+05 / 88
p0 0.00124 ± 9.629e–07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

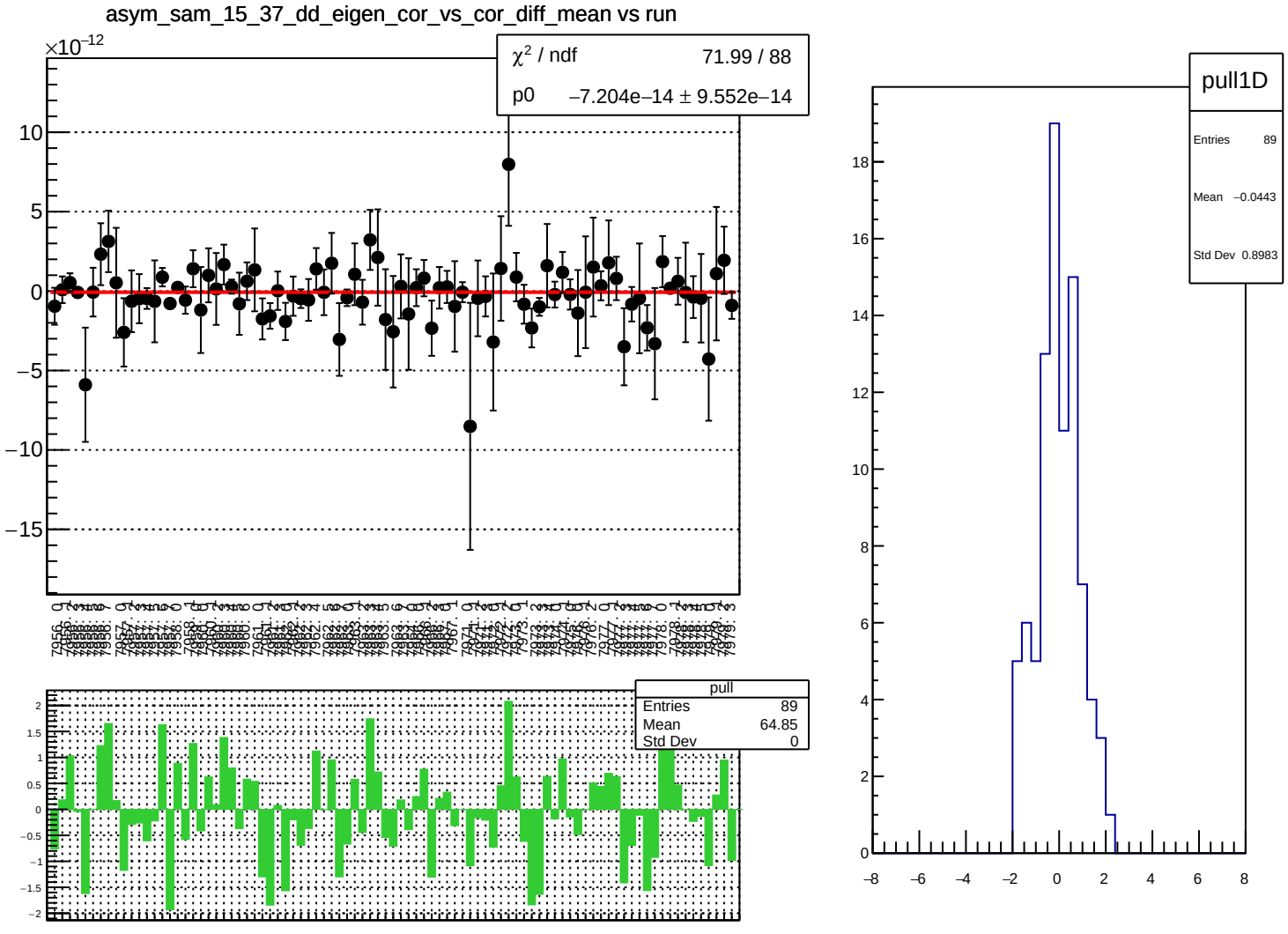

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 88
p0 0.02587 ± 0.05341
pull
Entries 89
Mean −573
Std Dev 0

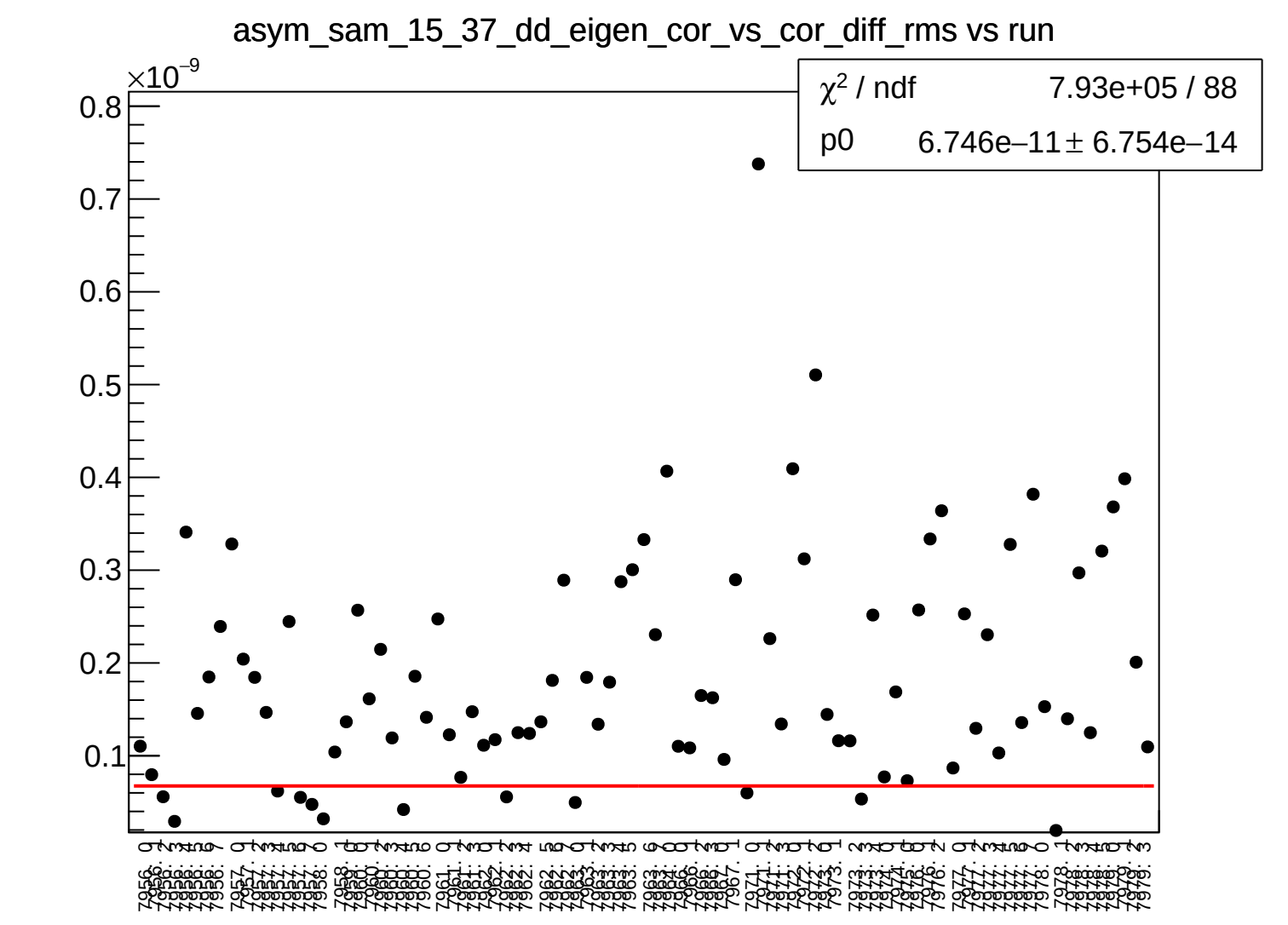

pull1D
Entries 89
Mean −0.00766
Std Dev 1.11

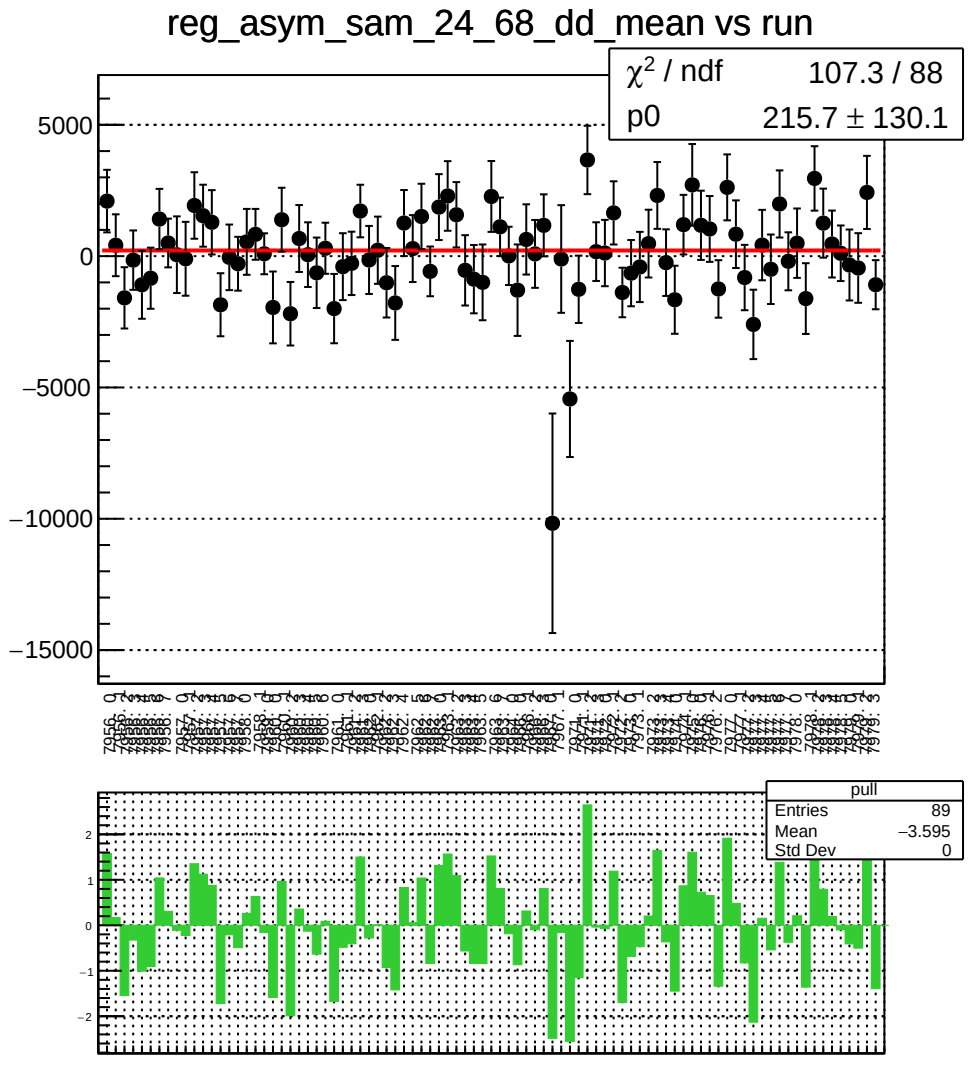

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.783e+05 / 88
p0 43.26 ± 0.03776
450
400
350
300
250
200
150
100
50

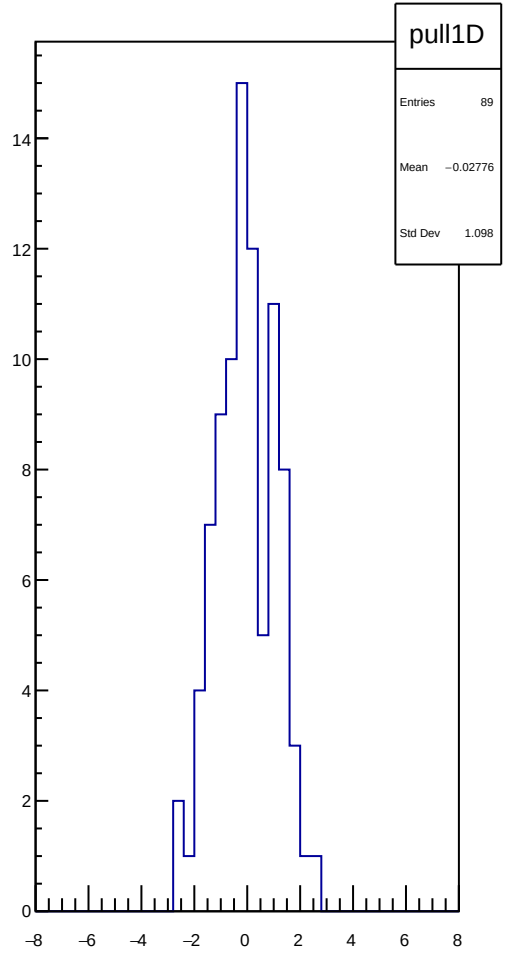

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 88
p0 0.02587 ± 0.05341
pull
Entries 89
Mean −573
Std Dev 0
pull1D
Entries 89
Mean −0.00766
Std Dev 1.11

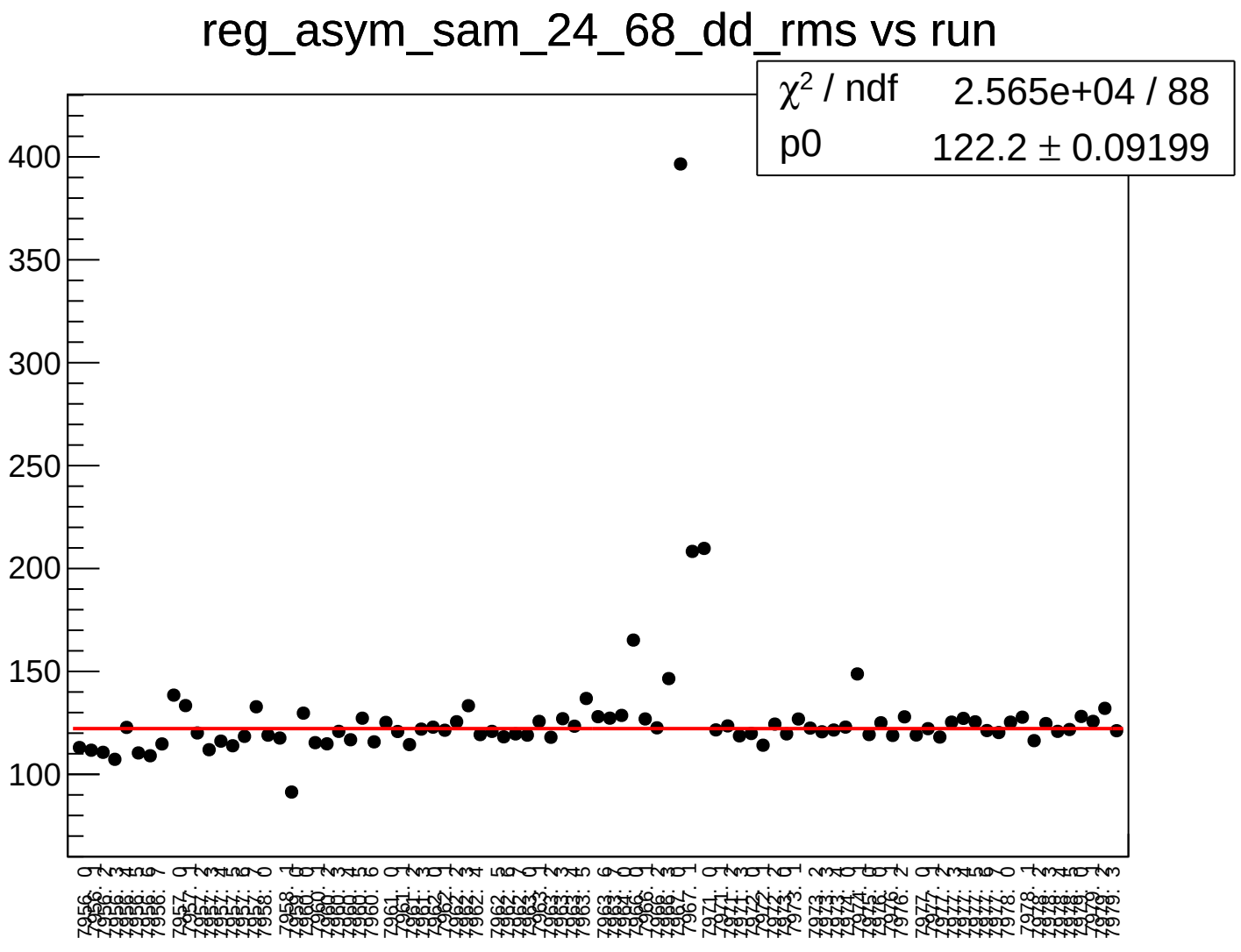

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.783e+05 / 88
p0 43.26 ± 0.03776
450
400
350
300
250
200
150
100
50

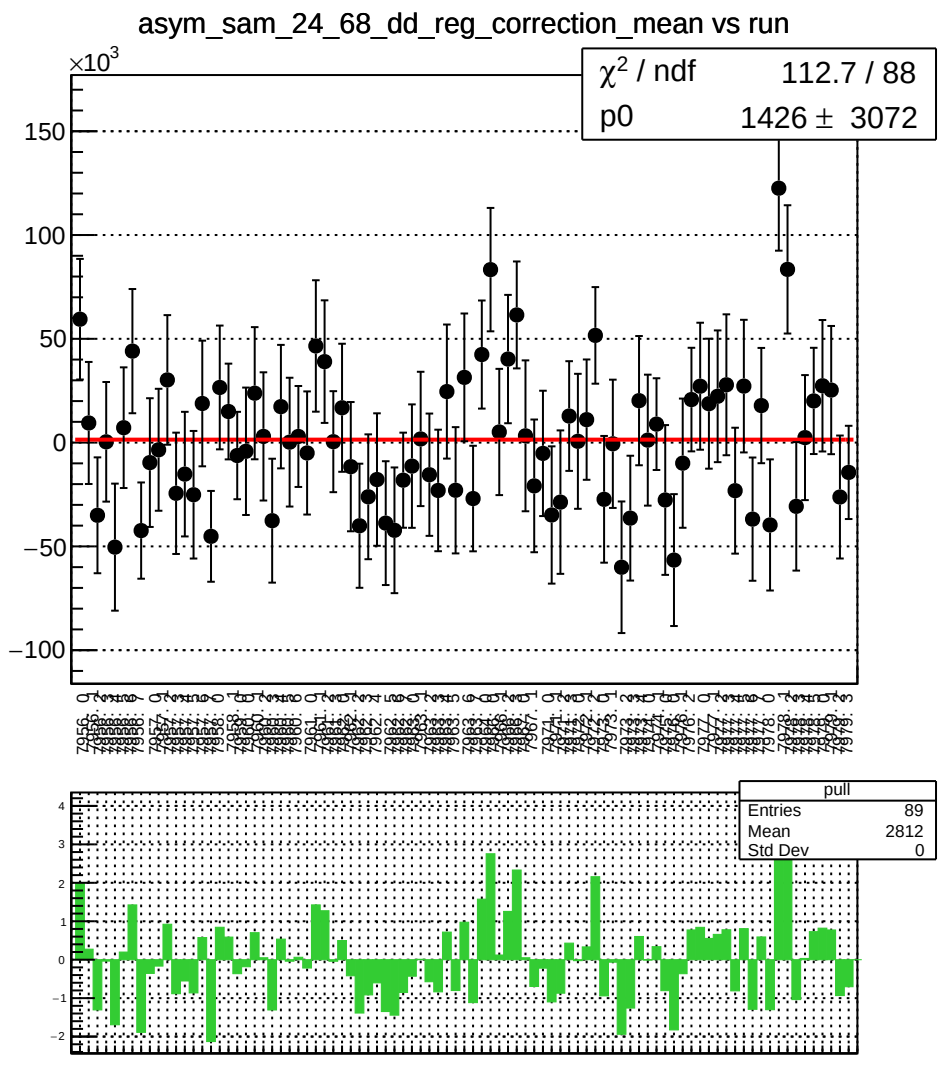

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 71.99 / 88
p0 −7.204e−14 ± 9.552e−14
pull
Entries 89
Mean 64.85
Std Dev 0
pull1D
Entries 89
Mean −0.0443
Std Dev 0.8983

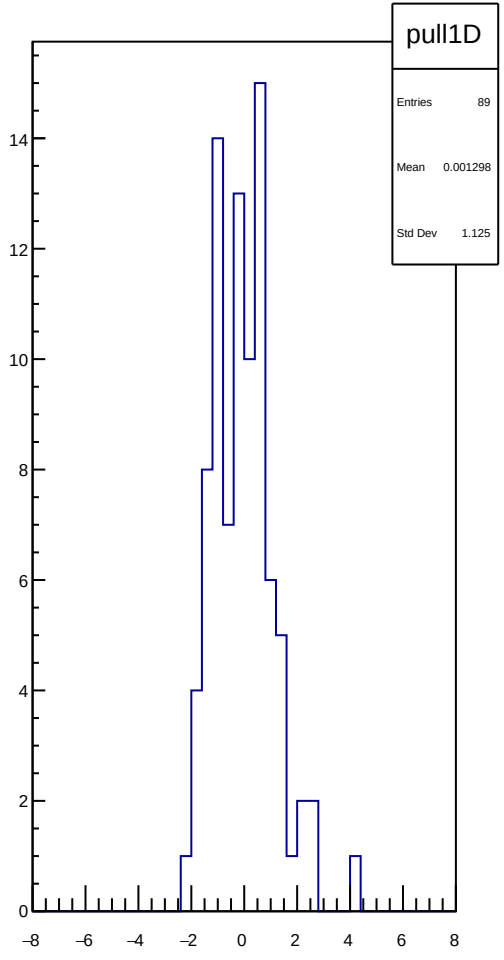

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.93e+05 / 88
p0 6.746e−11 ± 6.754e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

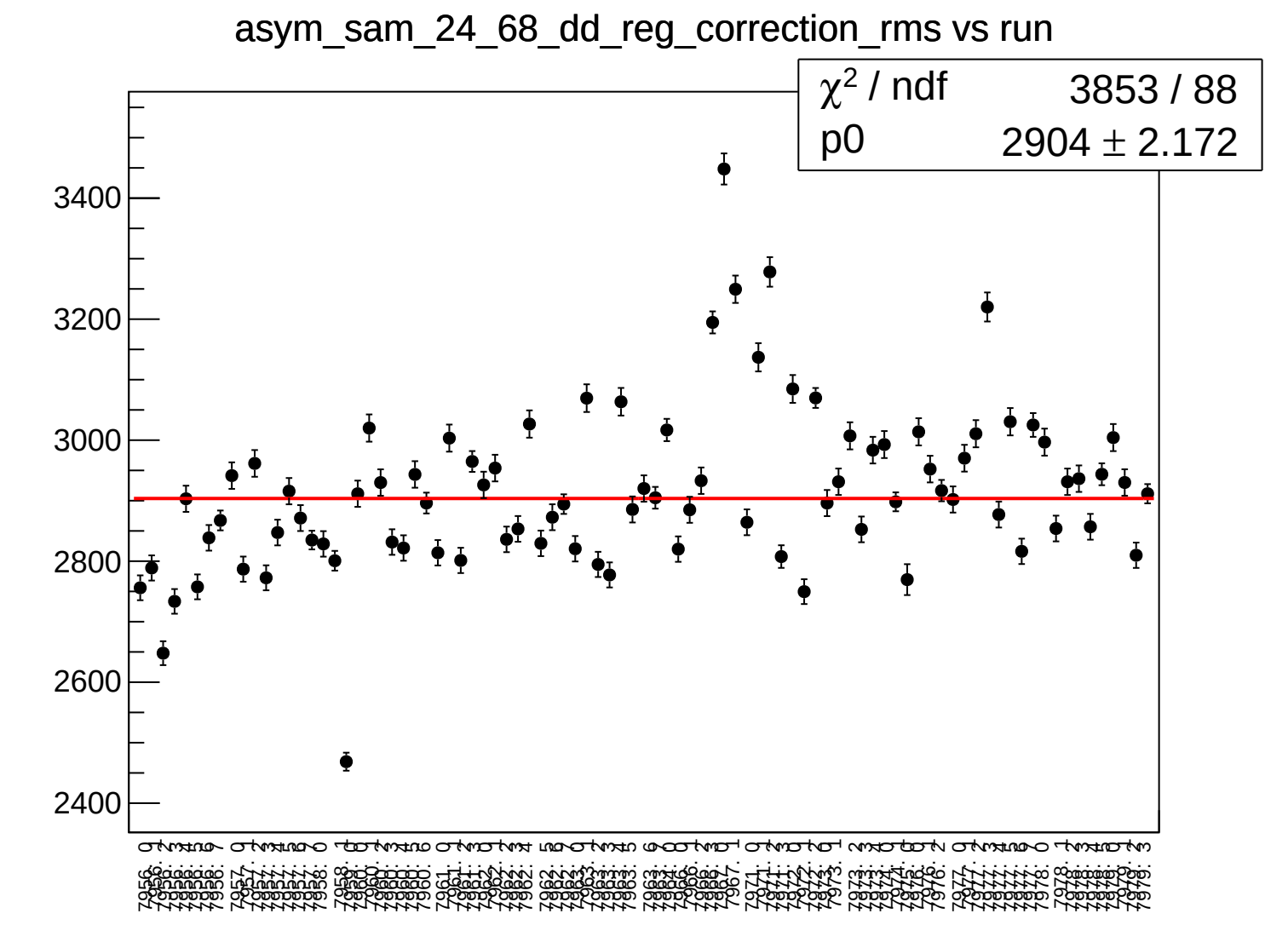

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 107.3 / 88
p0 215.7 ± 130.1
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −3.595
Std Dev 0
2
1
0
−1
−2

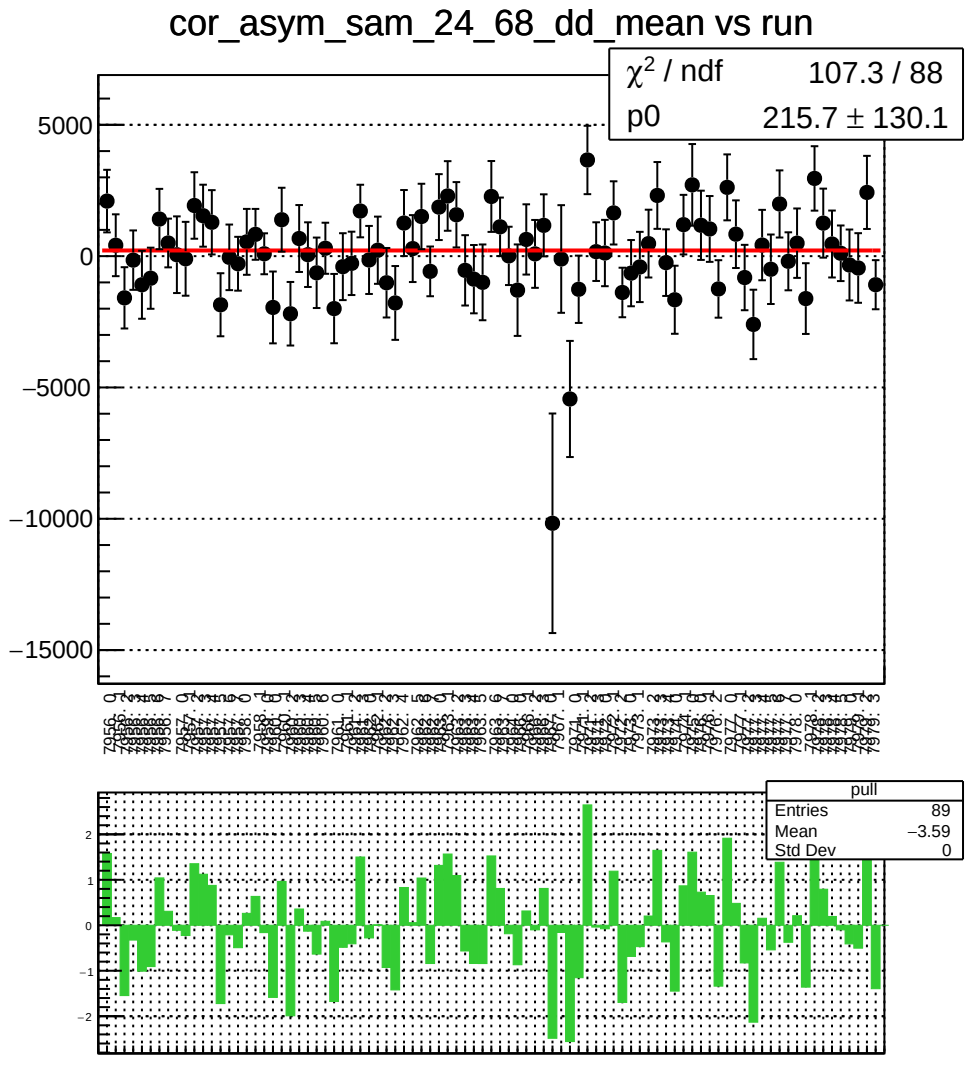

pull1D
Entries 89
Mean −0.02776
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

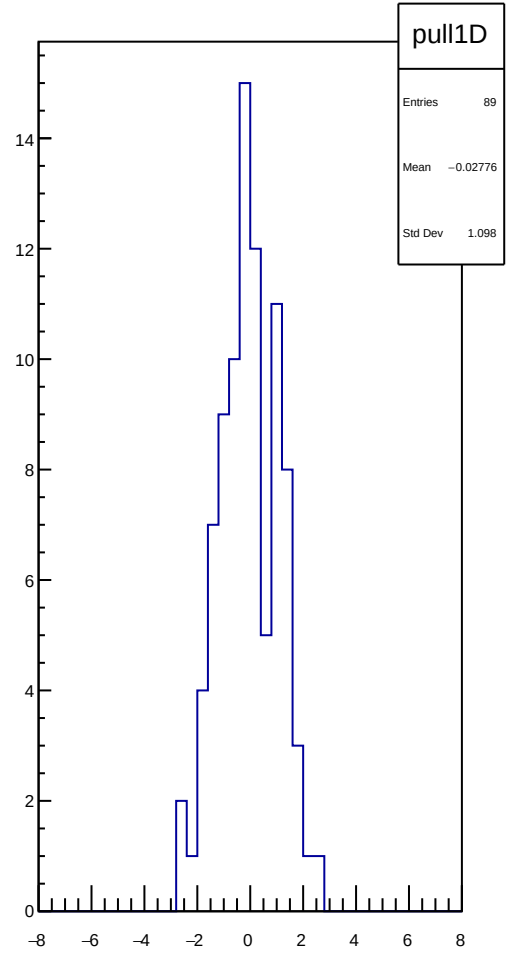

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 2.565e+04 / 88
p0 122.2 ± 0.09199
400
350
300
250
200
150
100

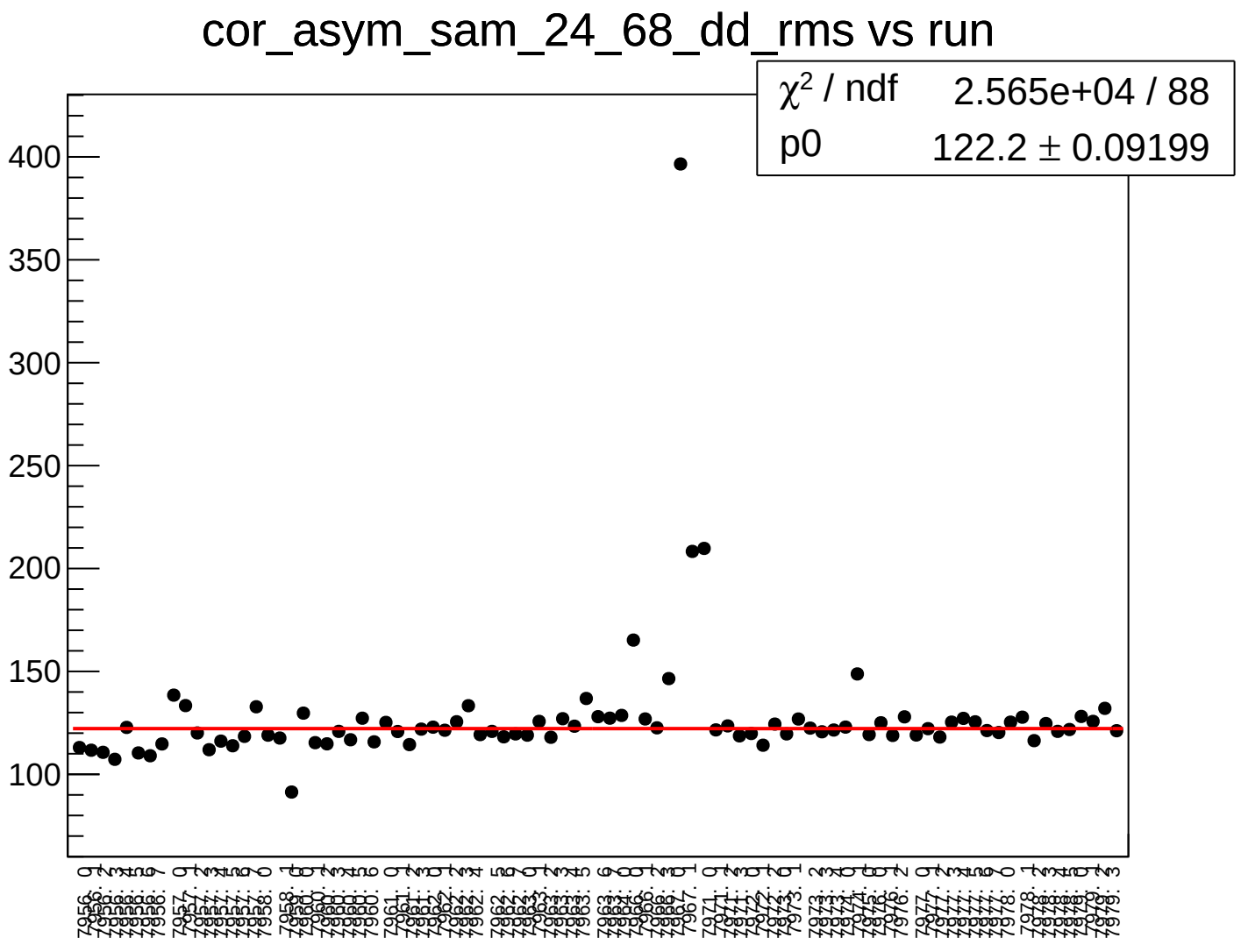

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 112.7 / 88
p0 1426 ± 3072
150
100
50
0
−50
−100
pull
Entries 89
Mean 2812
Std Dev 0
4
3
2
1
0
−1
−2

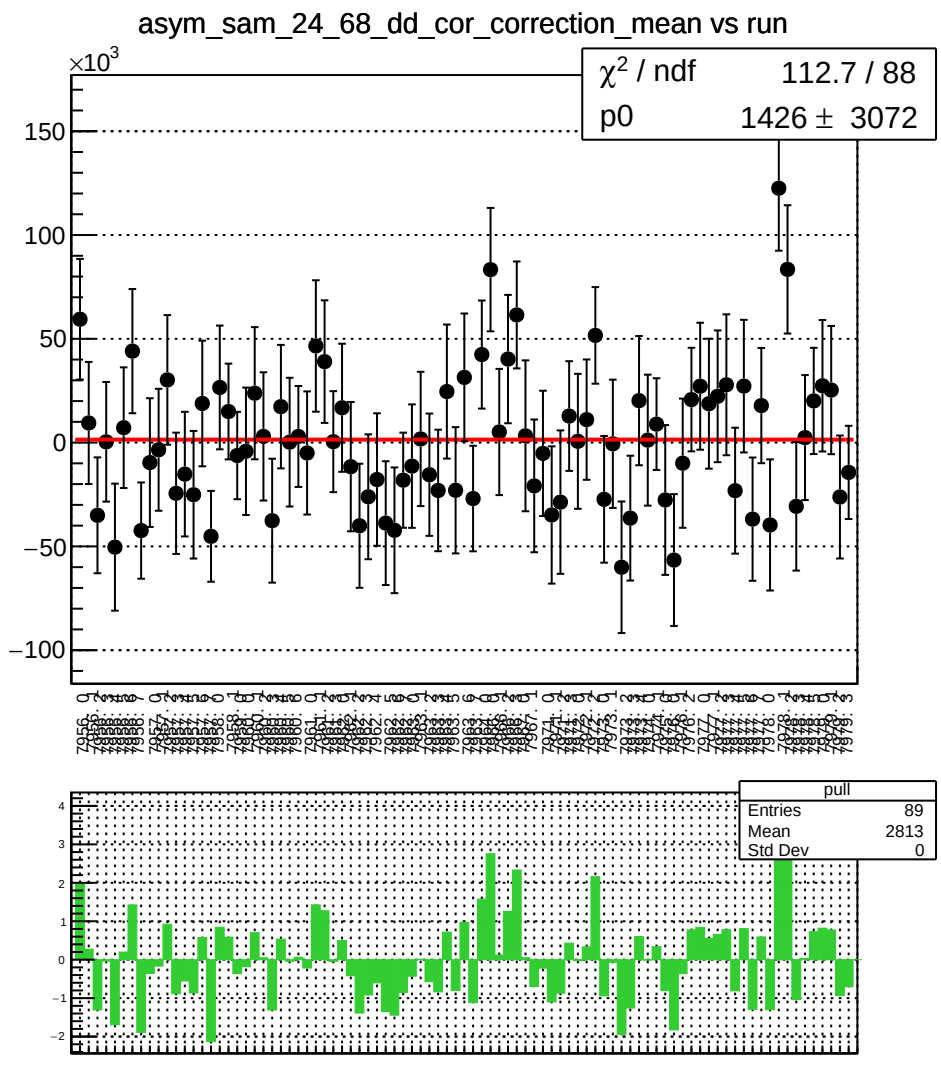

pull1D
Entries 89
Mean 0.001298
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

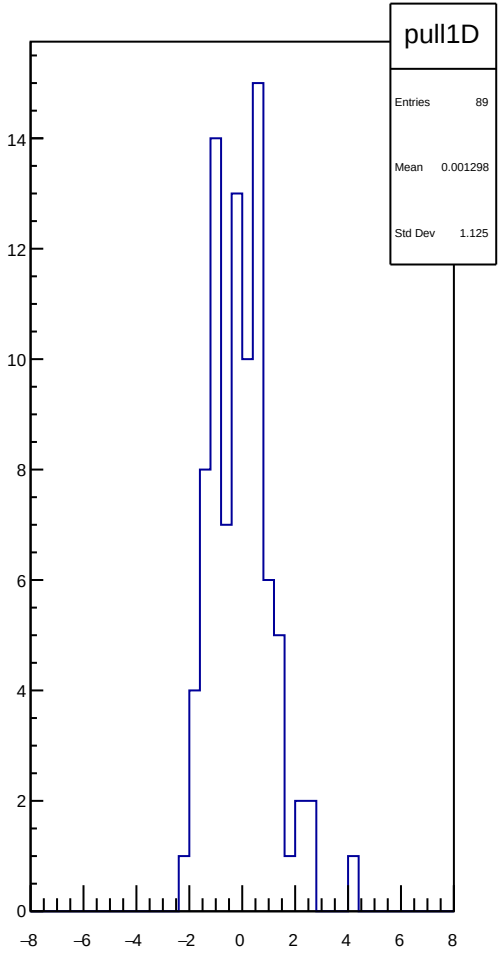

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 3853 / 88
p0 2904 ± 2.172
3400
3200
3000
2800
2600
2400

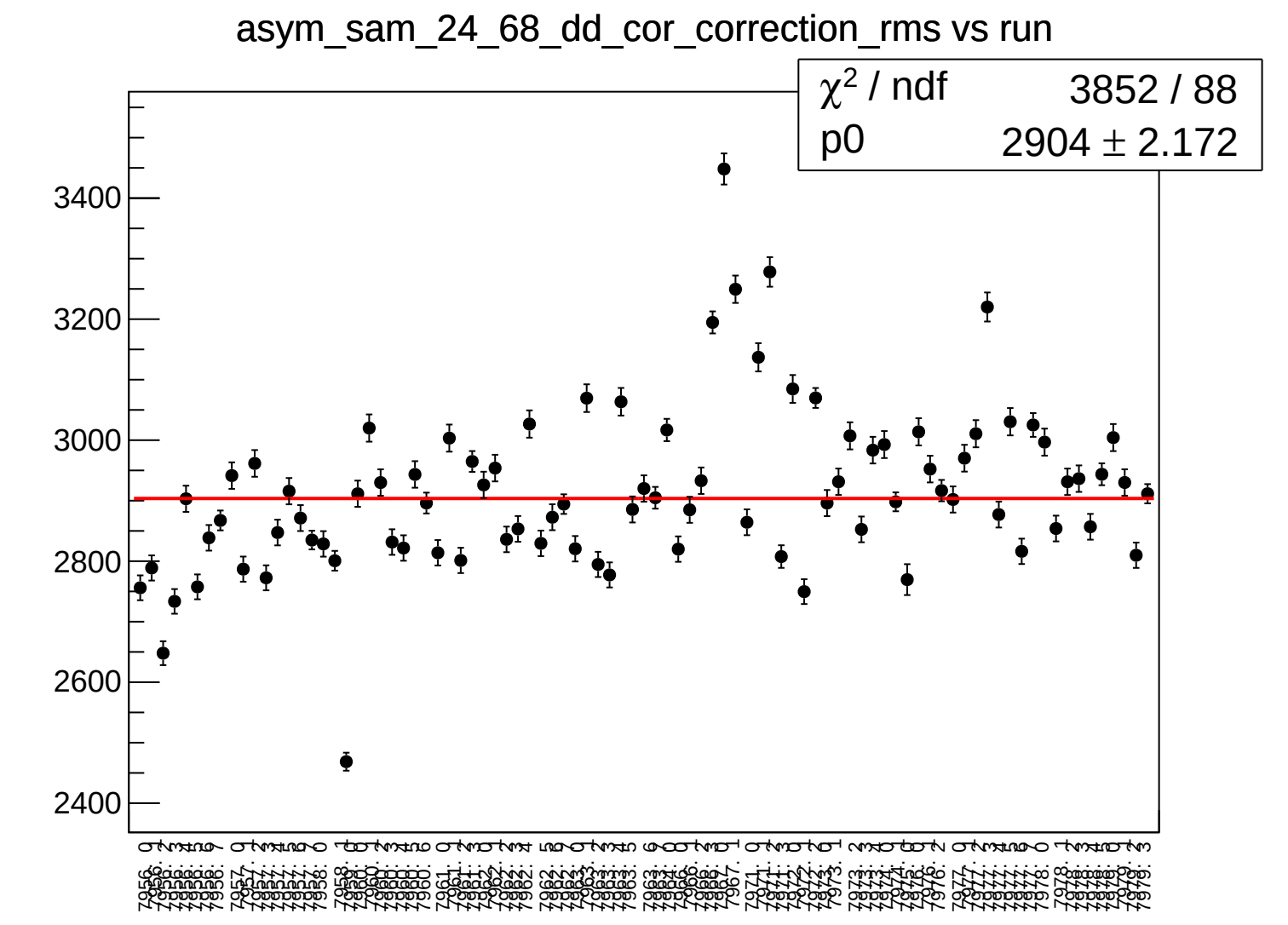

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 107.3 / 88
p0 215.7 ± 130.1
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −3.59
Std Dev 0
2
1
0
−1
−2

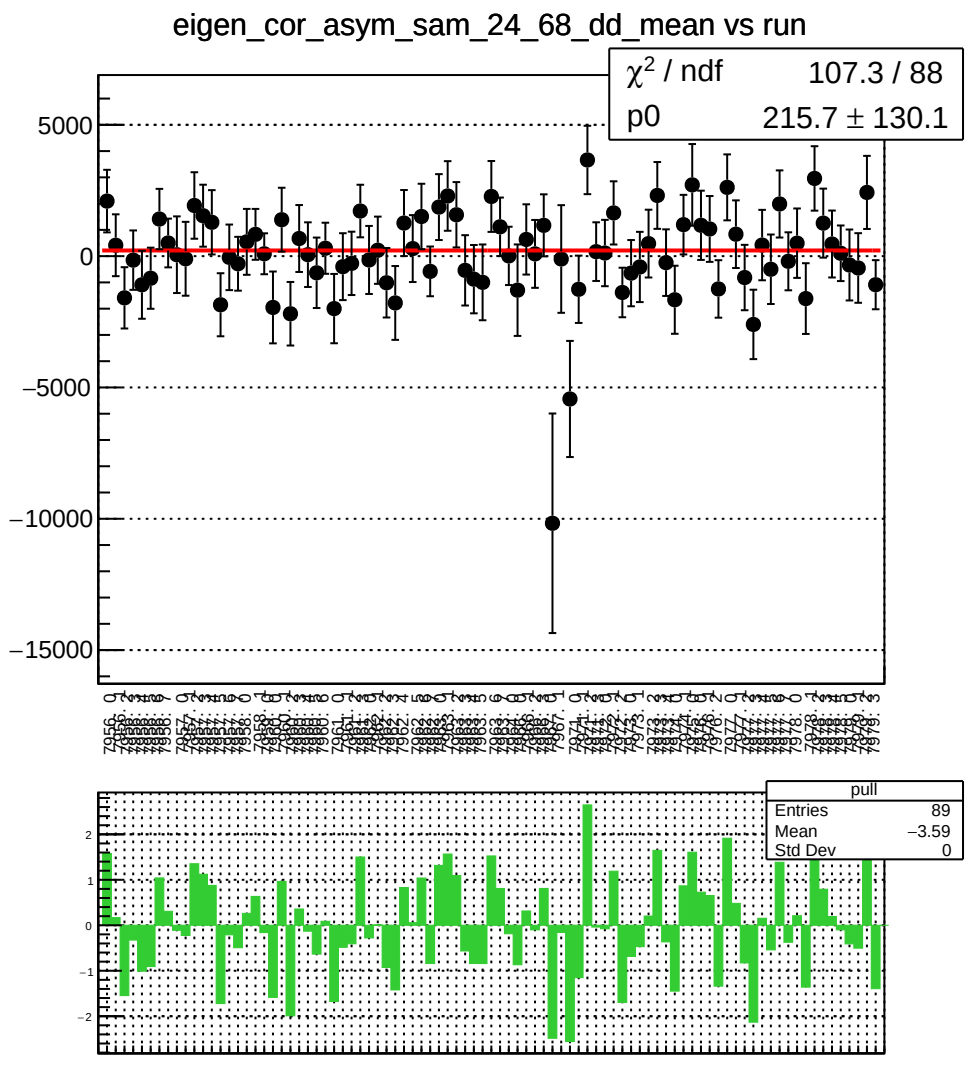

pull1D
Entries 89
Mean −0.02776
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

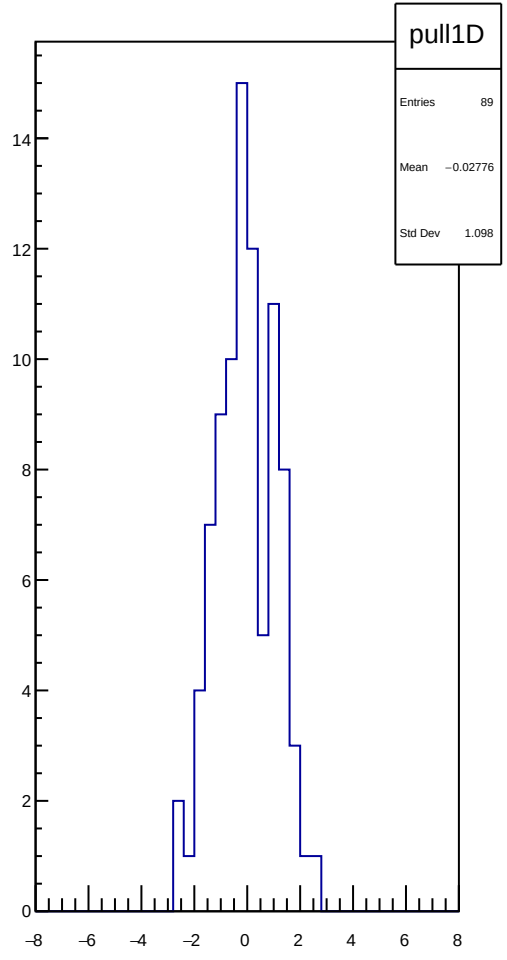

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 2.565e+04 / 88
p0 122.2 ± 0.09199
400
350
300
250
200
150
100

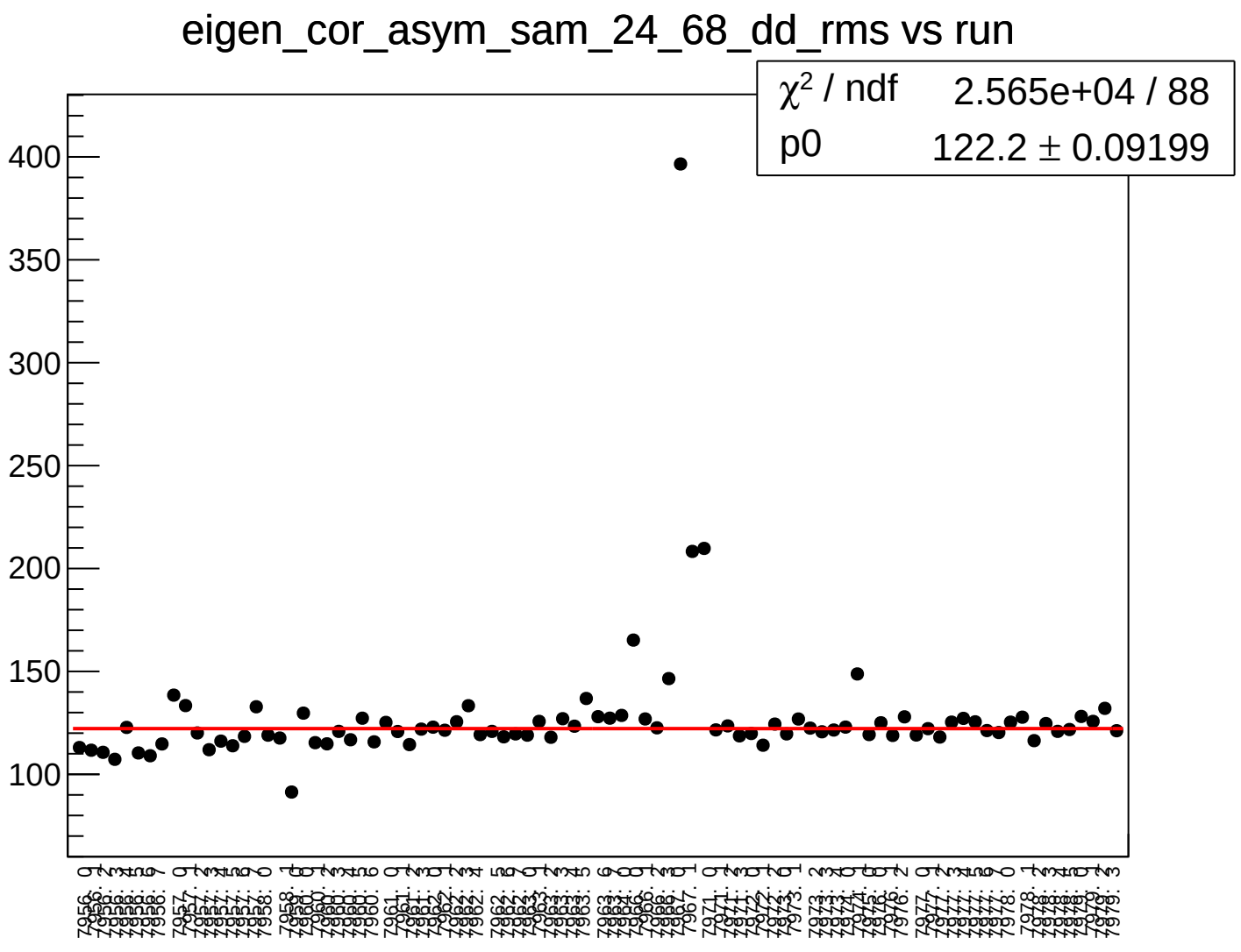

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 112.7 / 88
p0 1426 ± 3072
150
100
50
0
−50
−100
pull
Entries 89
Mean 2813
Std Dev 0
4
3
2
1
0
−1
−2

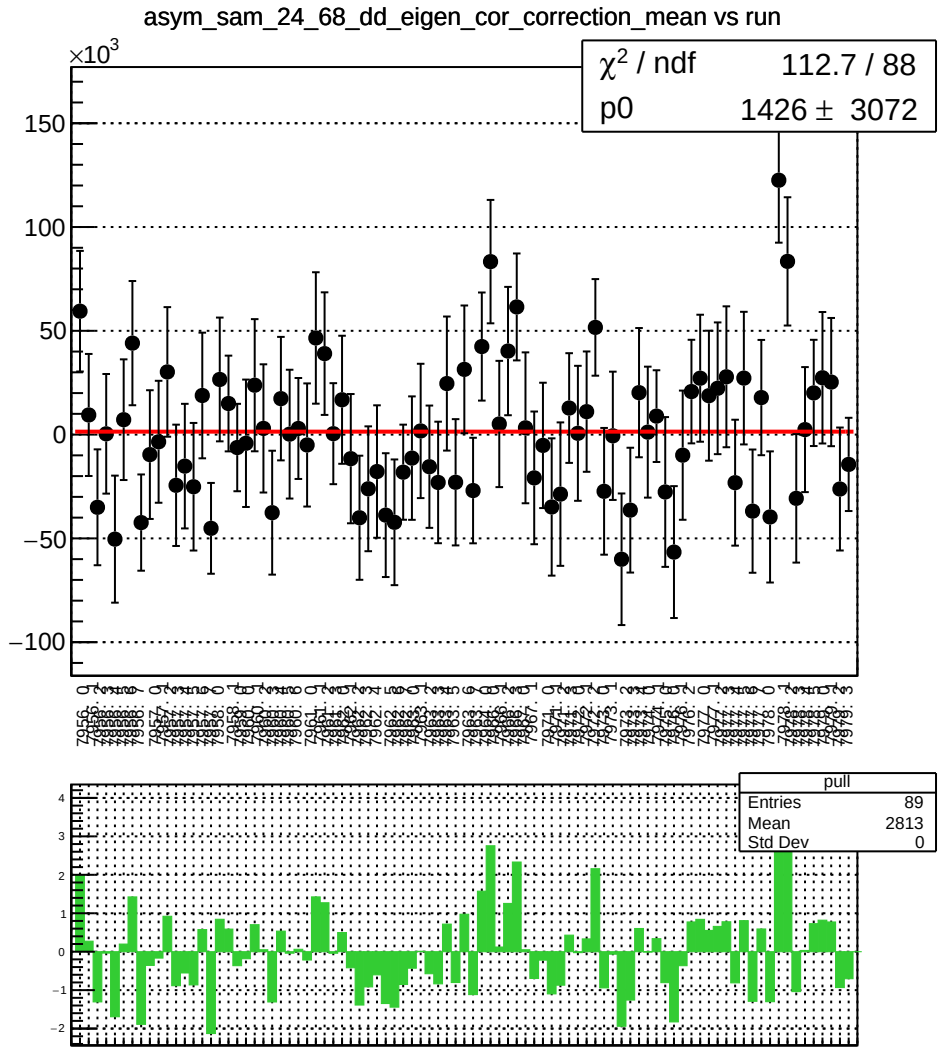

pull1D
Entries 89
Mean 0.001298
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

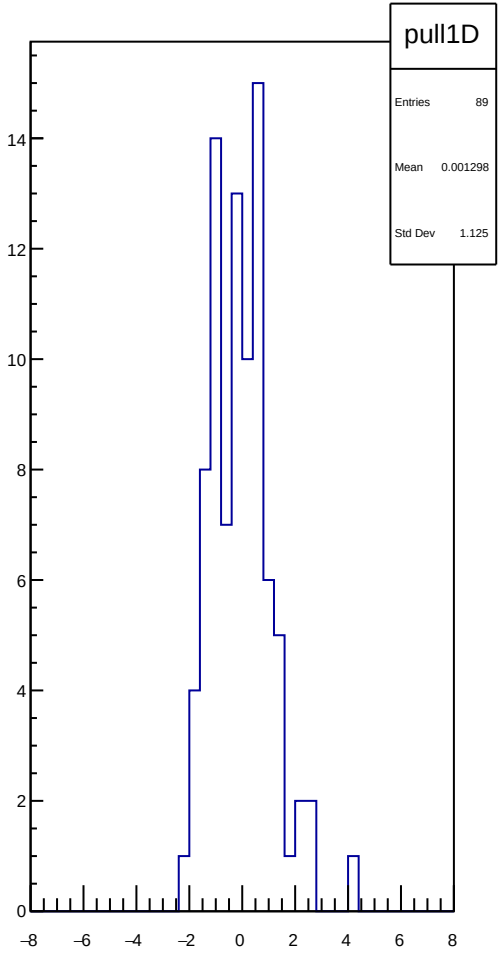

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 3852 / 88
p0 2904 ± 2.172
3400
3200
3000
2800
2600
2400

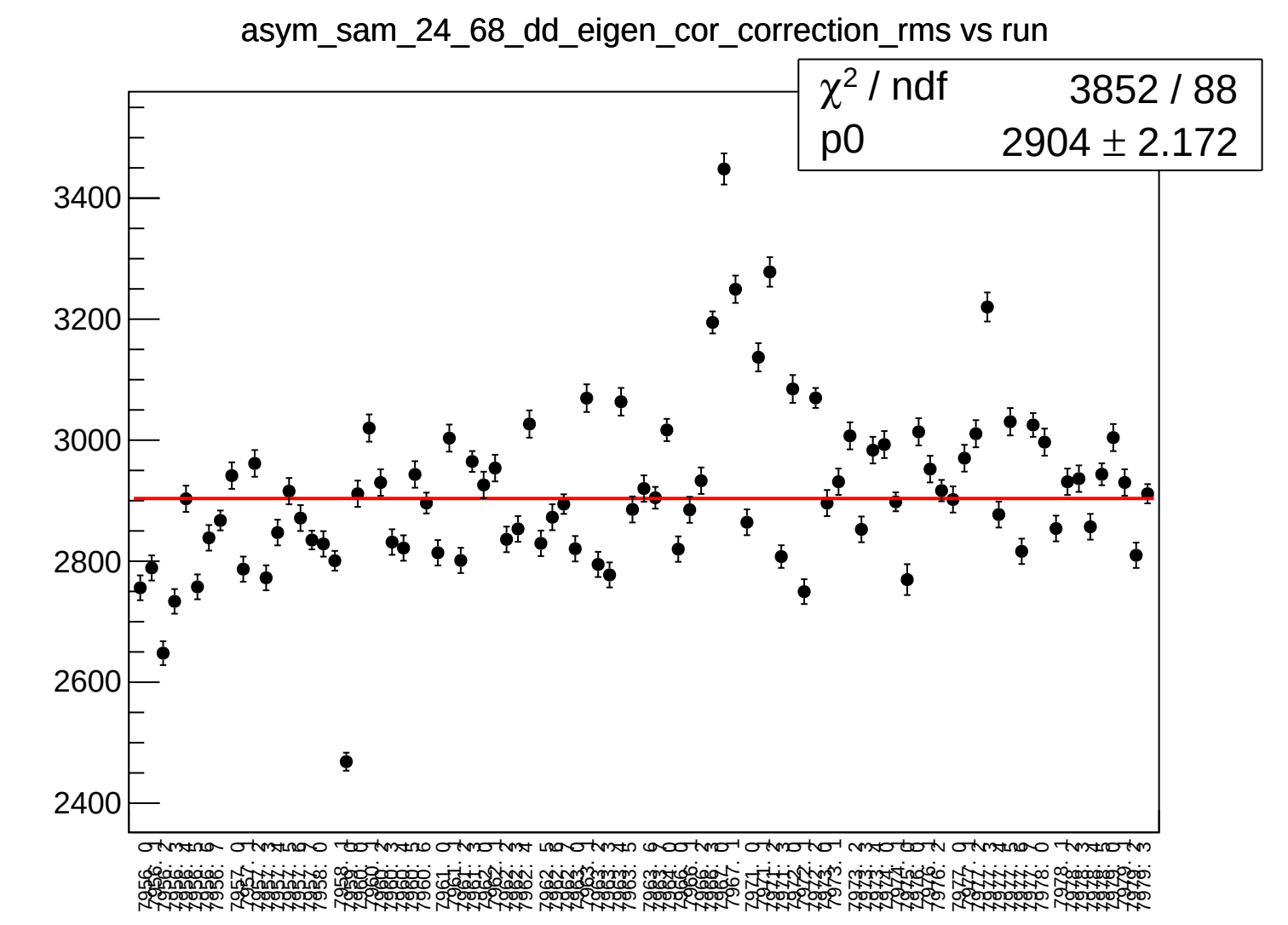

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 107.3 / 88
p0 215.7 ± 130.1
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −3.59
Std Dev 0
2
1
0
−1
−2

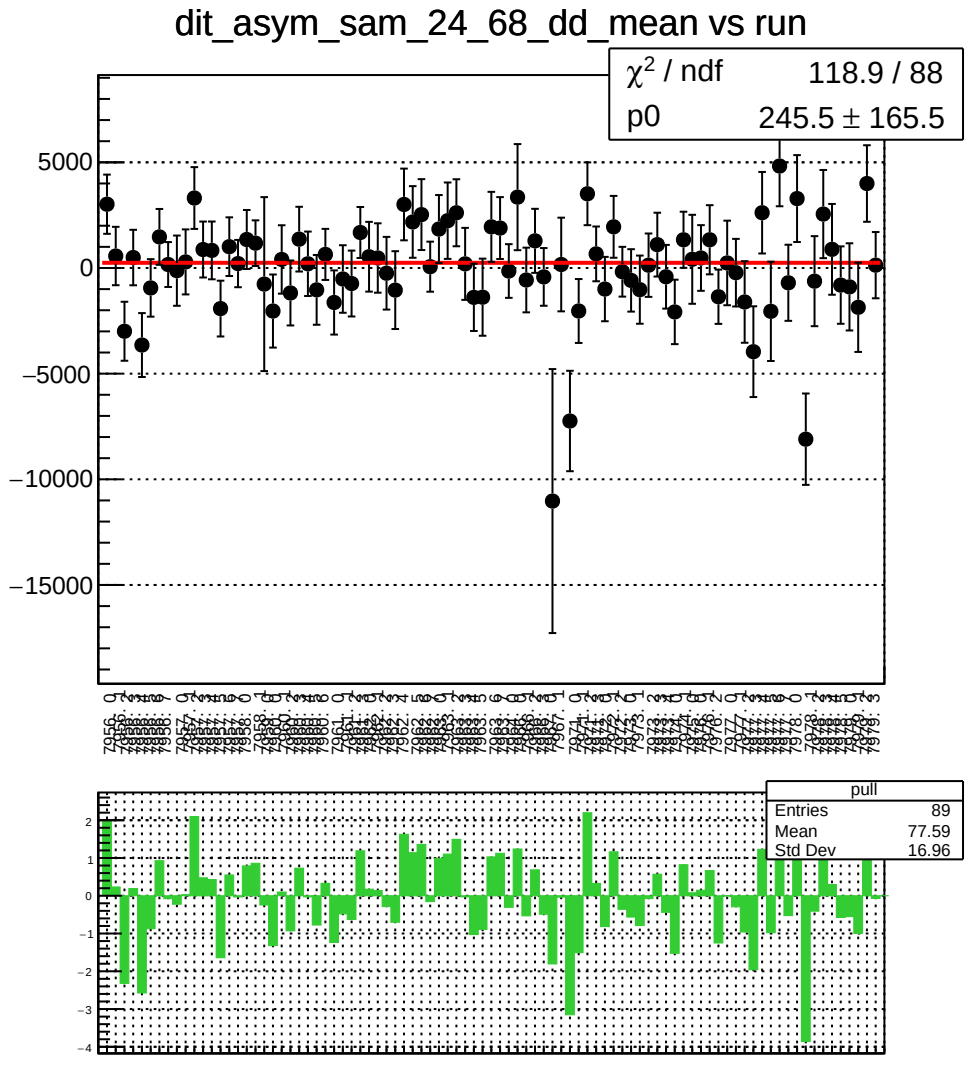

pull1D
Entries 89
Mean −0.02776
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

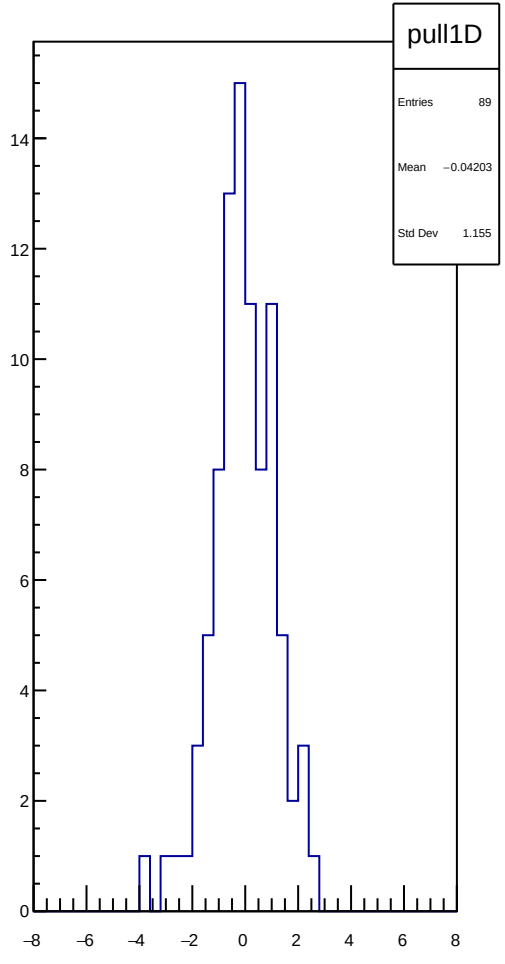

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 2.565e+04 / 88
p0 122.2 ± 0.09199
400
350
300
250
200
150
100

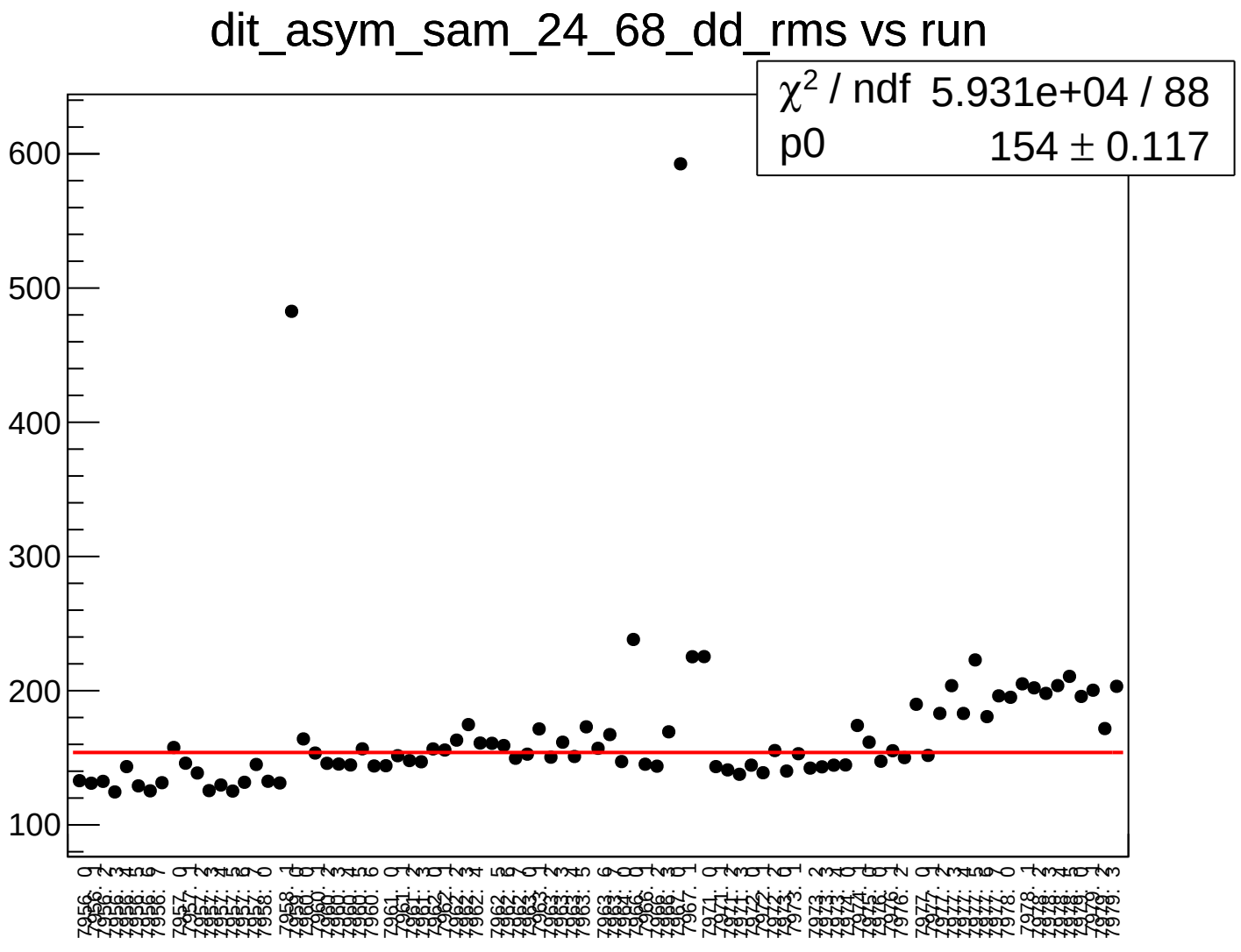

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 112.7 / 88
p0 1426 ± 3072
150
100
50
0
−50
−100
pull
Entries 89
Mean 2813
Std Dev 0
4
3
2
1
0
−1
−2

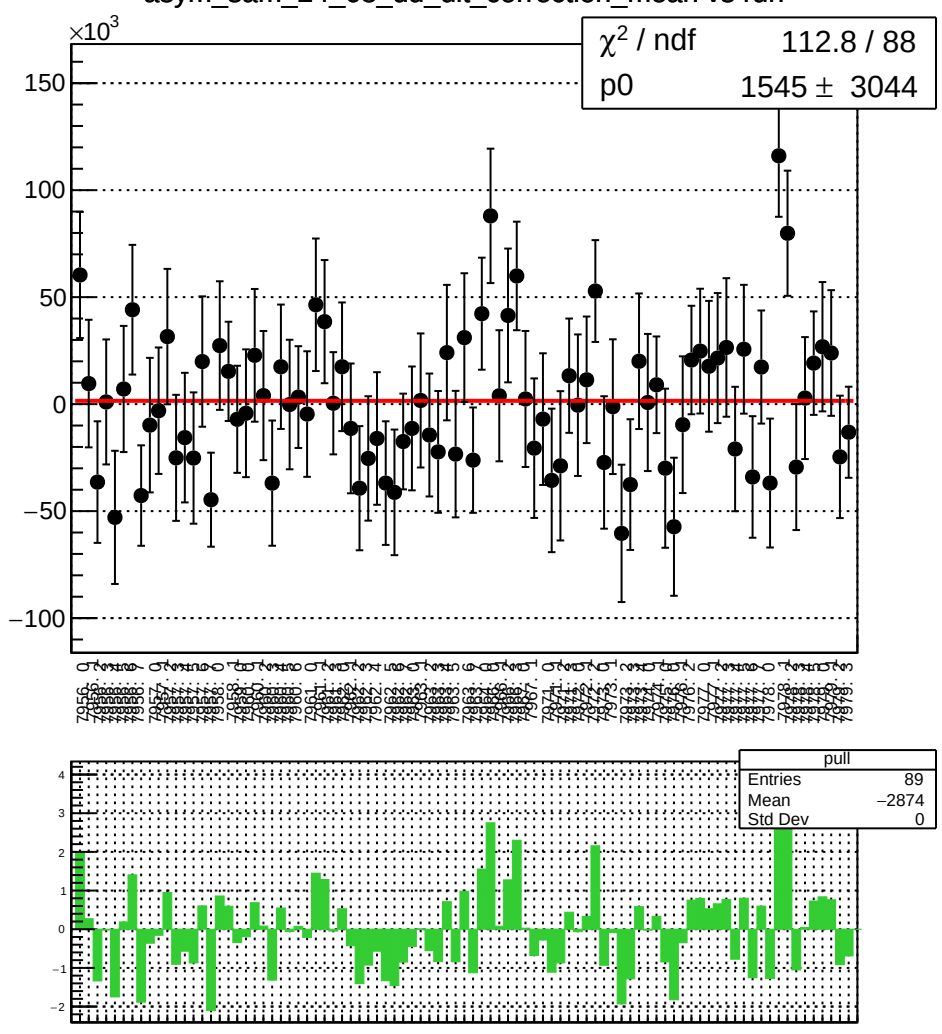

pull1D
Entries 89
Mean 0.001298
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

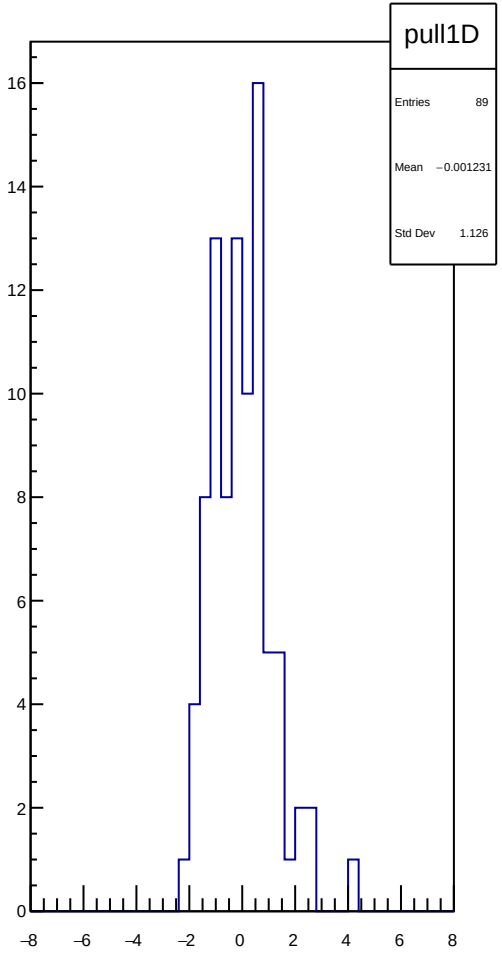

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 3852 / 88
p0 2904 ± 2.172
3400
3200
3000
2800
2600
2400

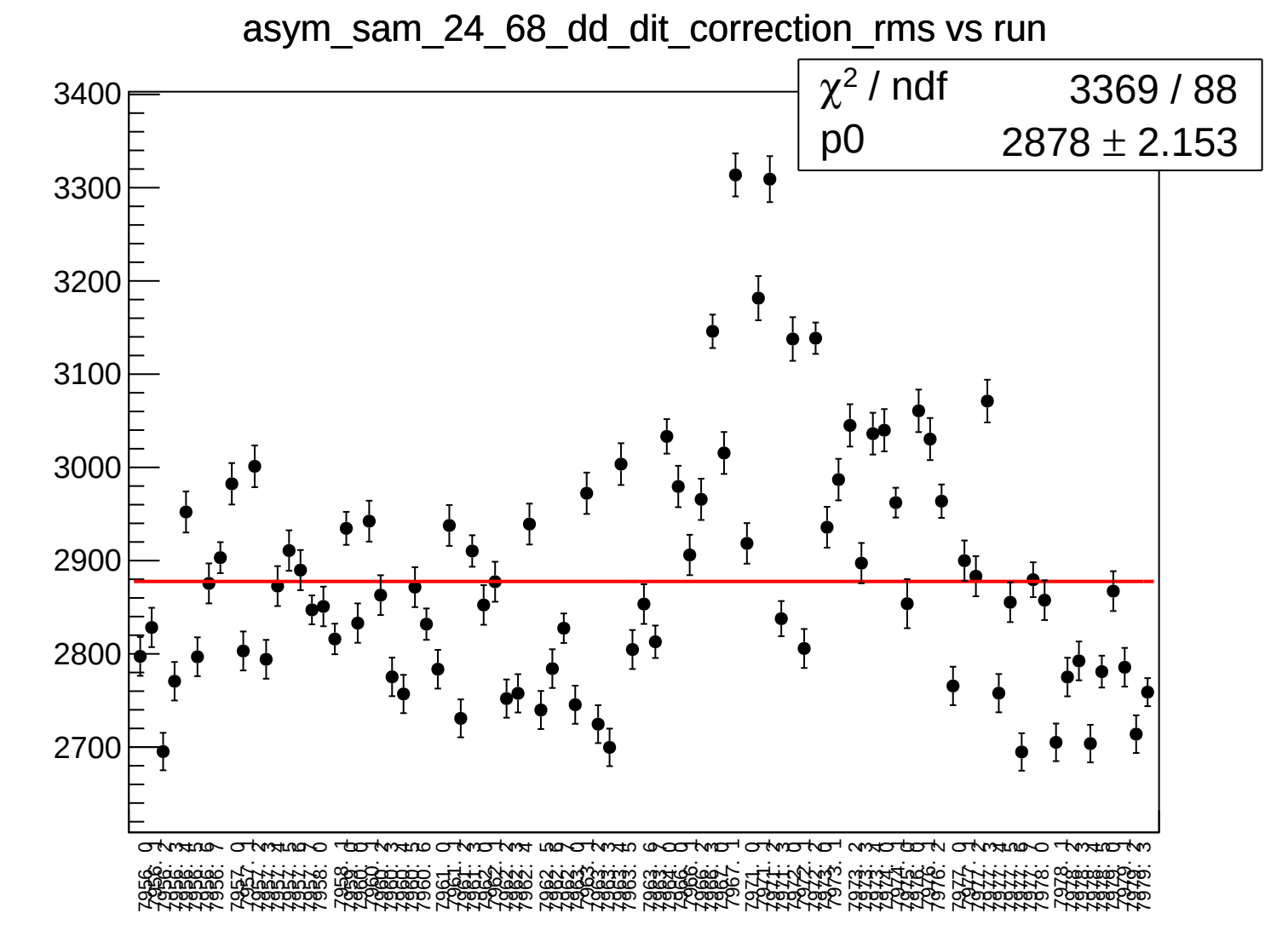

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 118.9 / 88
p0 245.5 ± 165.5
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 77.59
Std Dev 16.96
2
1
0
−1
−2
−3
−4

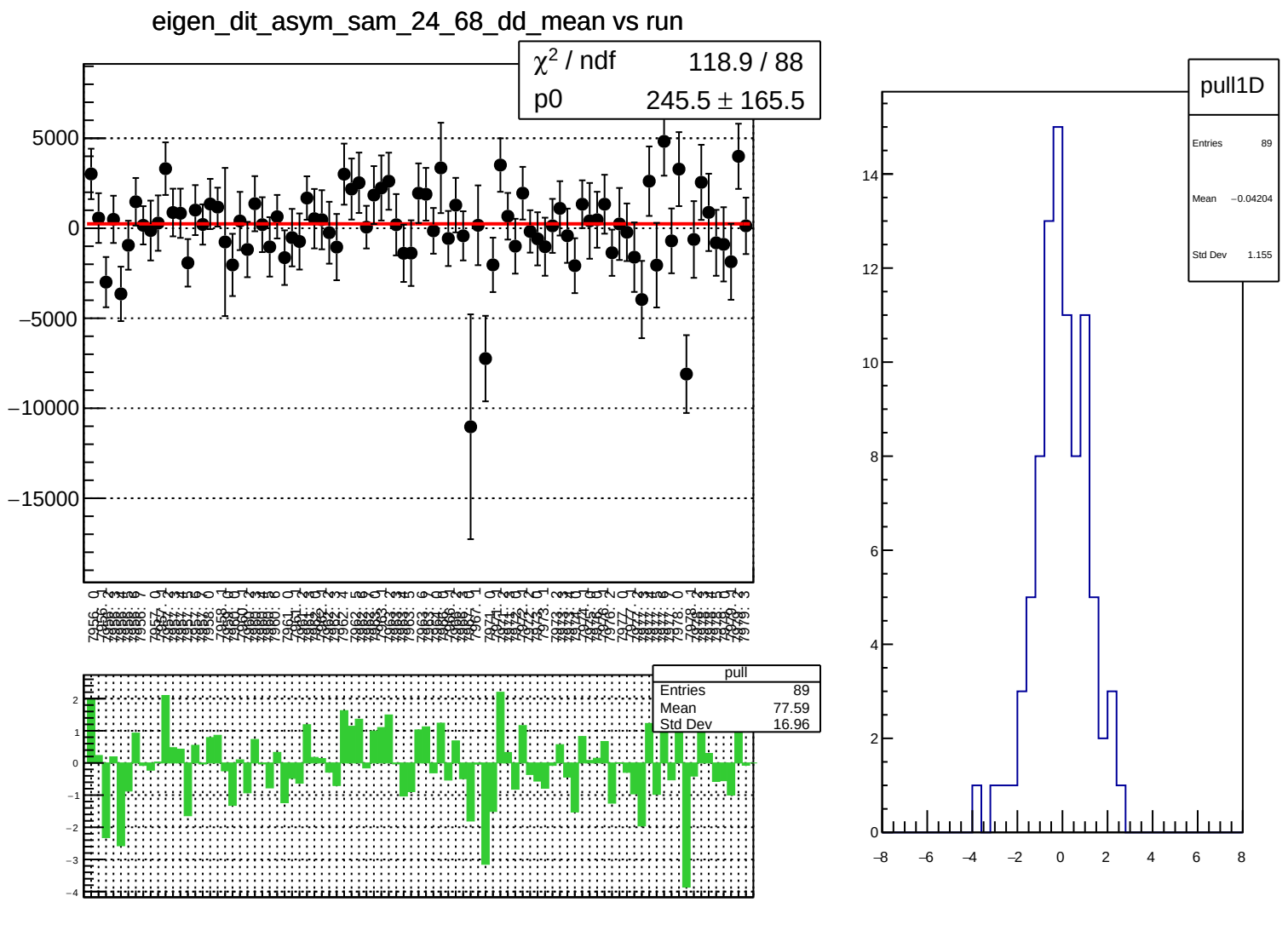

pull1D
Entries 89
Mean −0.04203
Std Dev 1.155
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

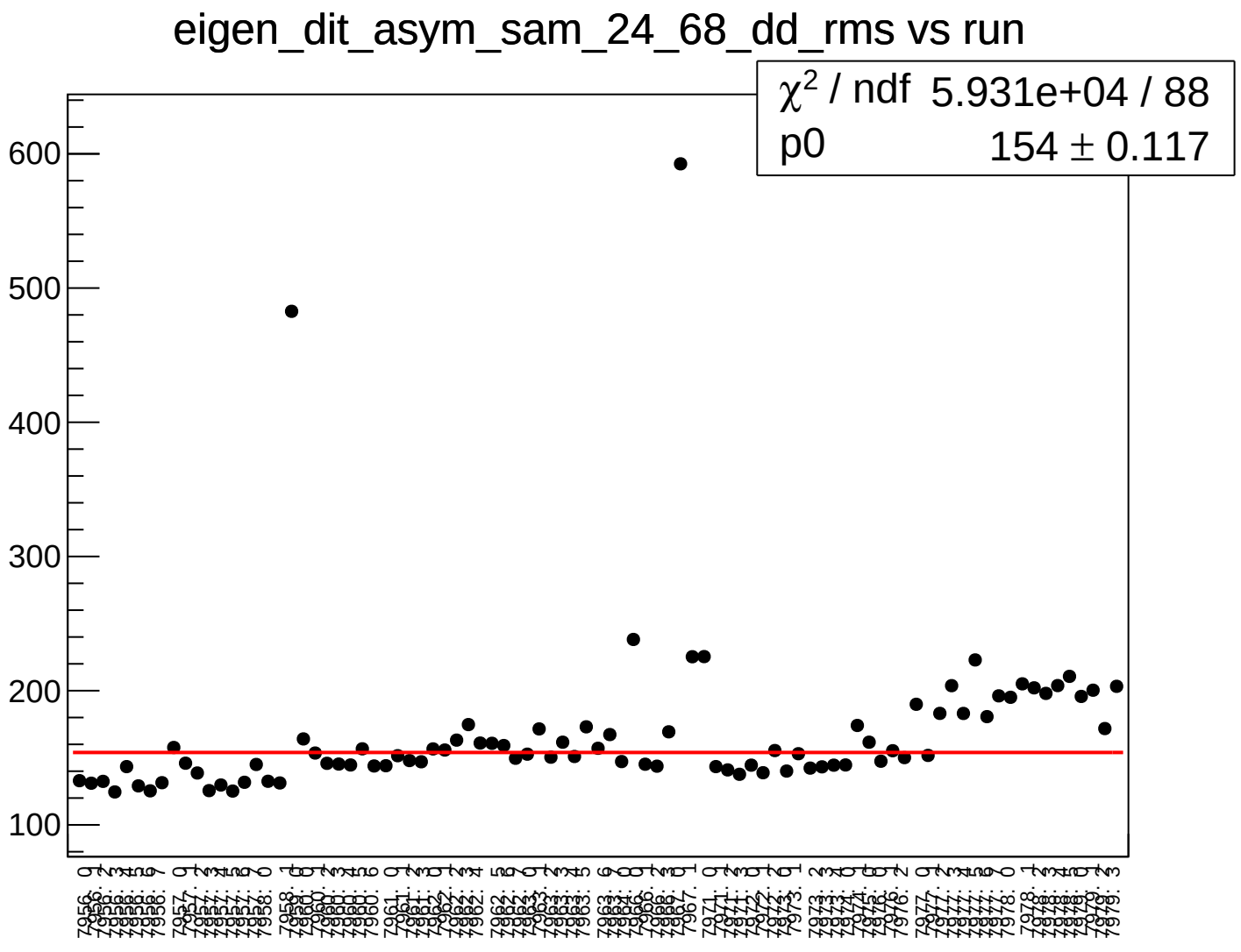

dit_asym_sam_24_68_dd_rms vs run
$\chi^2$ / ndf 5.931e+04 / 88
p0 154 ± 0.117
600
500
400
300
200
100

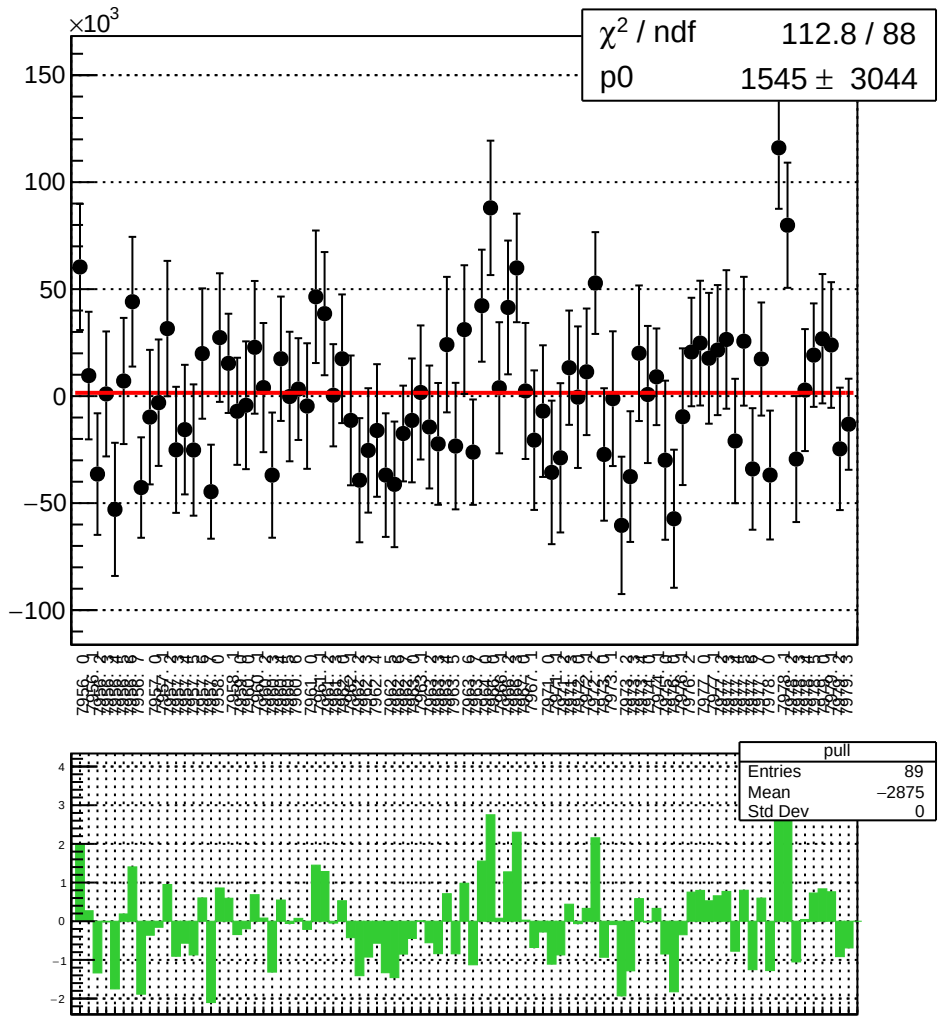

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 112.8 / 88
p0 1545 ± 3044
150
100
50
0
−50
−100
pull
Entries 89
Mean −2874
Std Dev 0
4
3
2
1
0
−1
−2

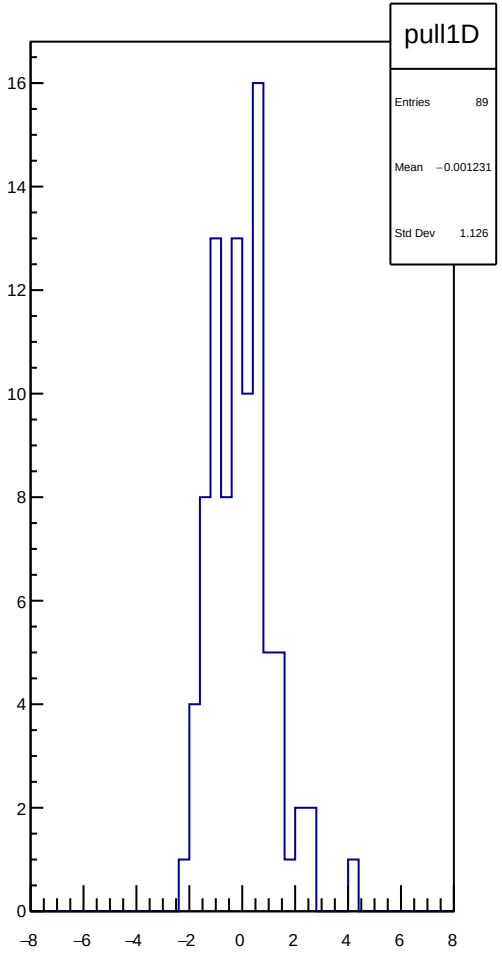

pull1D
Entries 89
Mean −0.001231
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

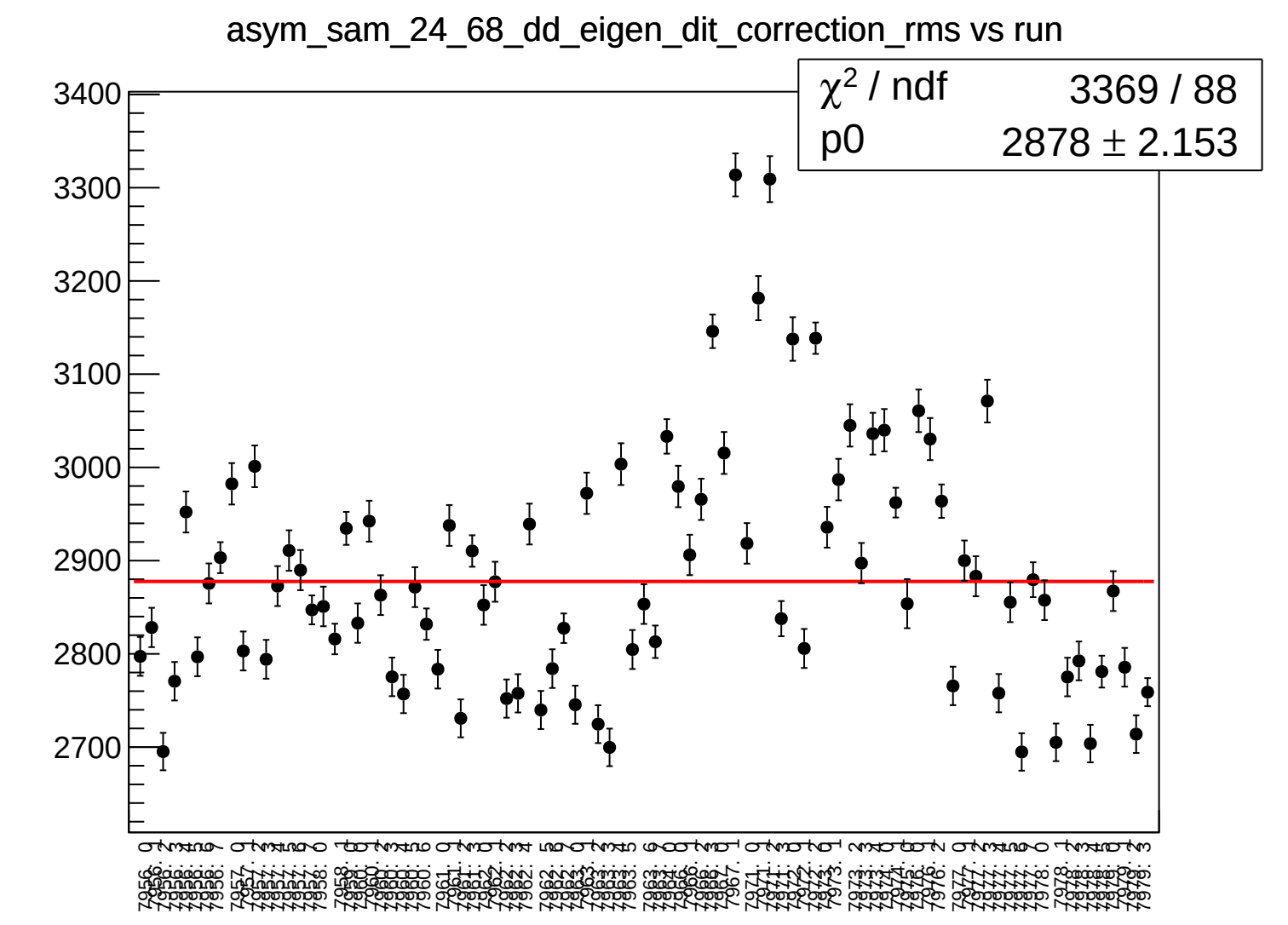

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 3369 / 88
p0 2878 ± 2.153
3400
3300
3200
3100
3000
2900
2800
2700

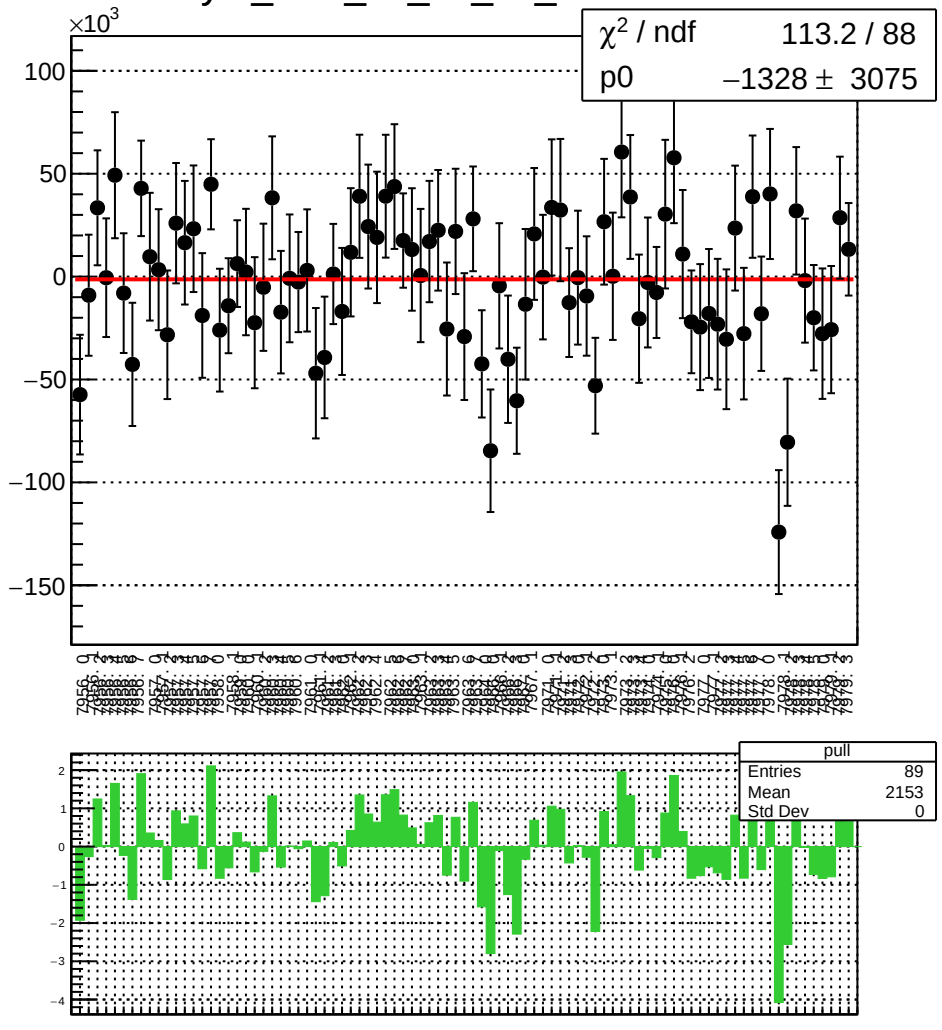

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 118.9 / 88
p0 245.5 ± 165.5
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 77.59
Std Dev 16.96
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean −0.04204
Std Dev 1.155
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

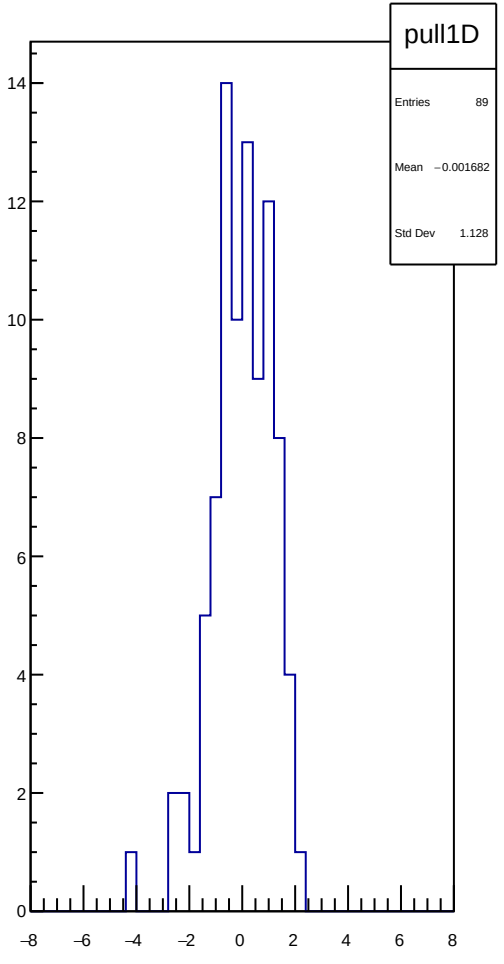

eigen_dit_asym_sam_24_68_dd_rms vs run
$\chi^2$ / ndf 5.931e+04 / 88
p0 154 ± 0.117
600
500
400
300
200
100

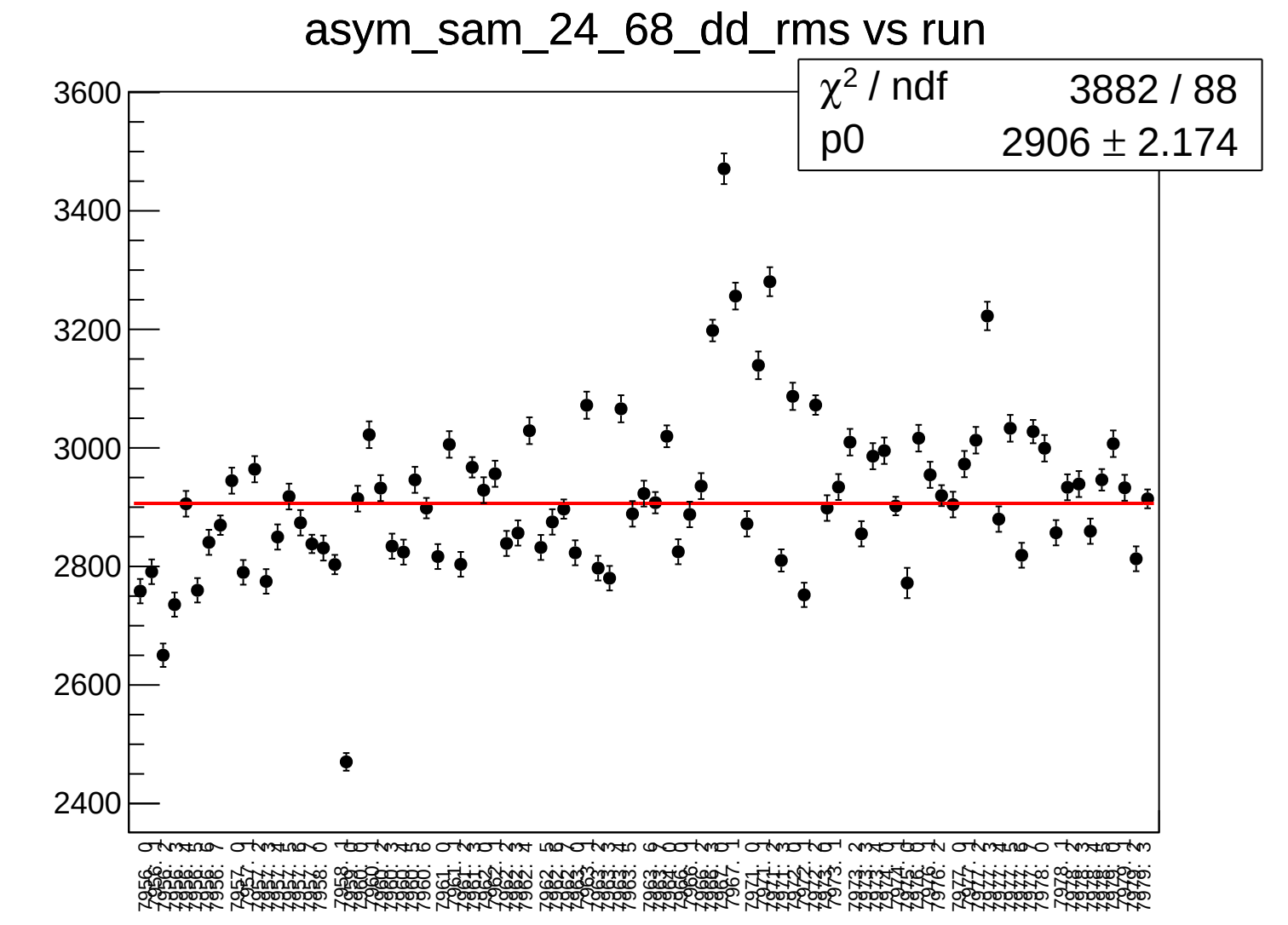

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 112.8 / 88
p0 1545 ± 3044
150
100
50
0
−50
−100
pull
Entries 89
Mean −2875
Std Dev 0
4
3
2
1
0
−1
−2

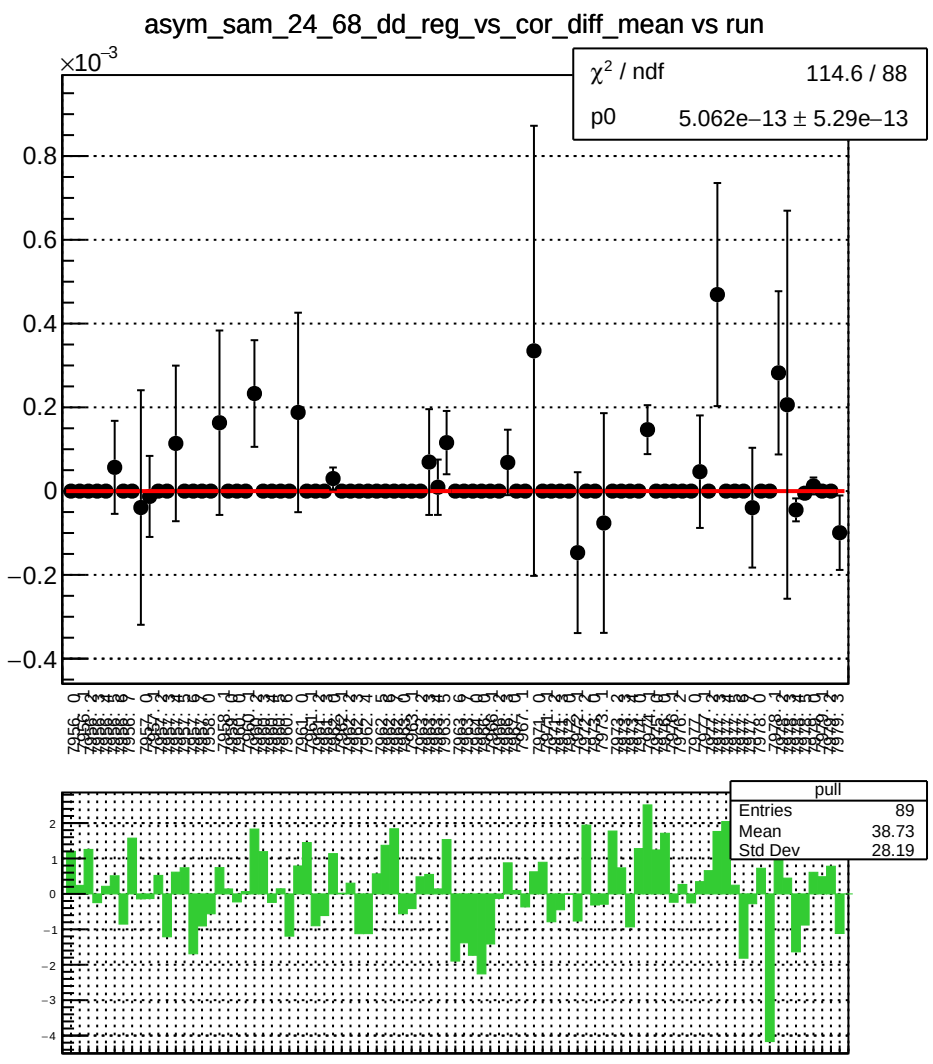

pull1D
Entries 89
Mean −0.001231
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

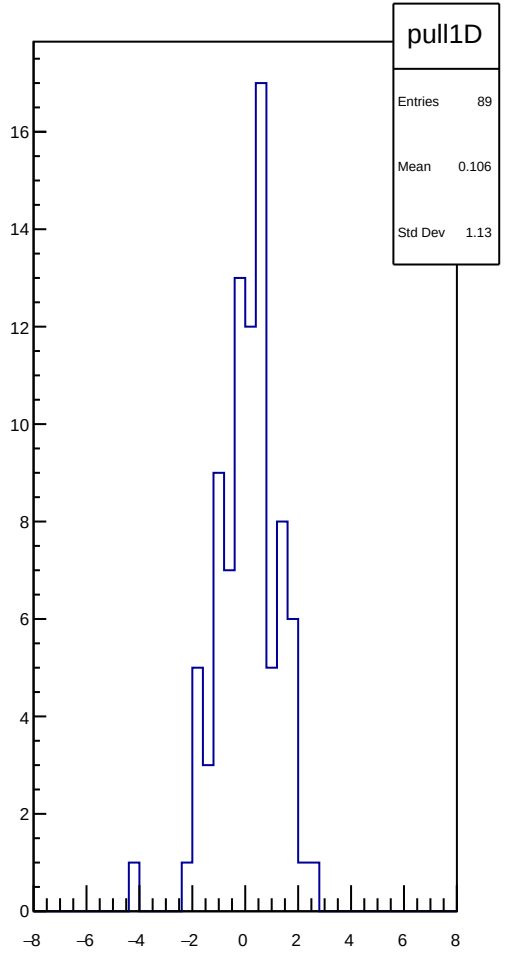

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 3369 / 88
p0 2878 ± 2.153
3400
3300
3200
3100
3000
2900
2800
2700

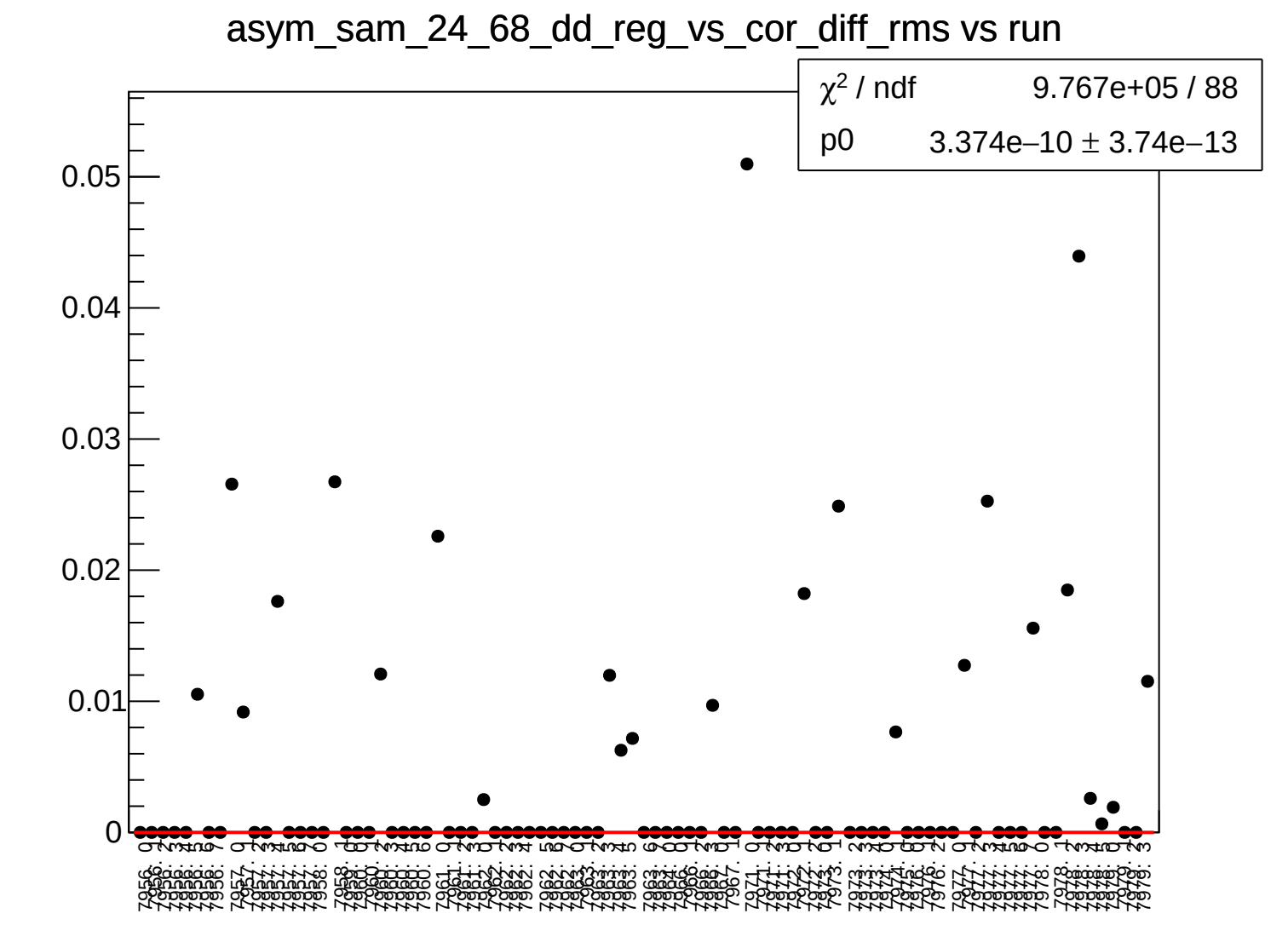

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 113.2 / 88
p0 −1328 ± 3075
100
50
0
−50
−100
−150
pull
Entries 89
Mean 2153
Std Dev 0
2
1
0
−1
−2
−3
−4

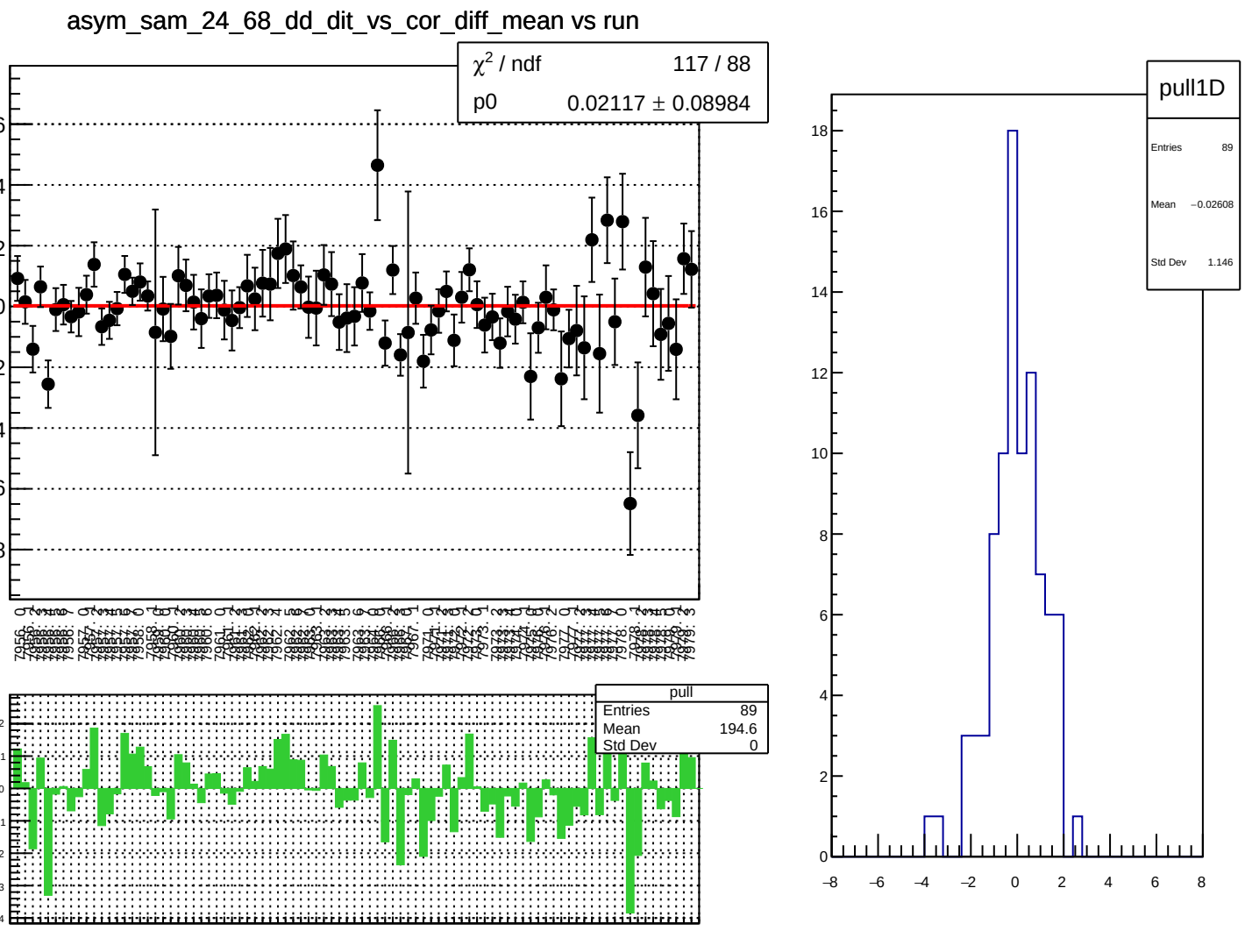

pull1D
Entries 89
Mean −0.001682
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

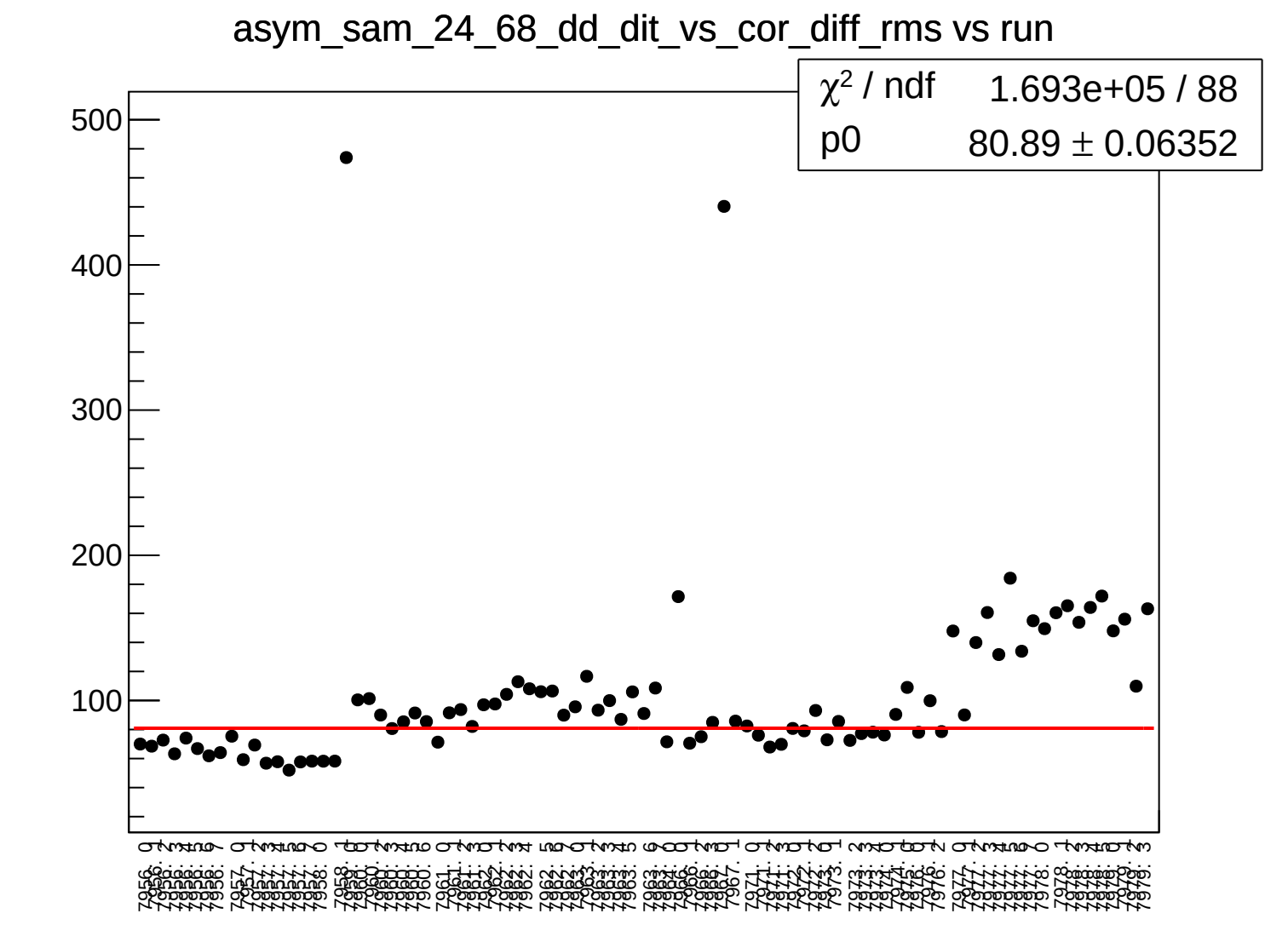

asym_sam_24_68_dd_rms vs run
$\chi^2$ / ndf 3882 / 88
p0 2906 ± 2.174
3600
3400
3200
3000
2800
2600
2400

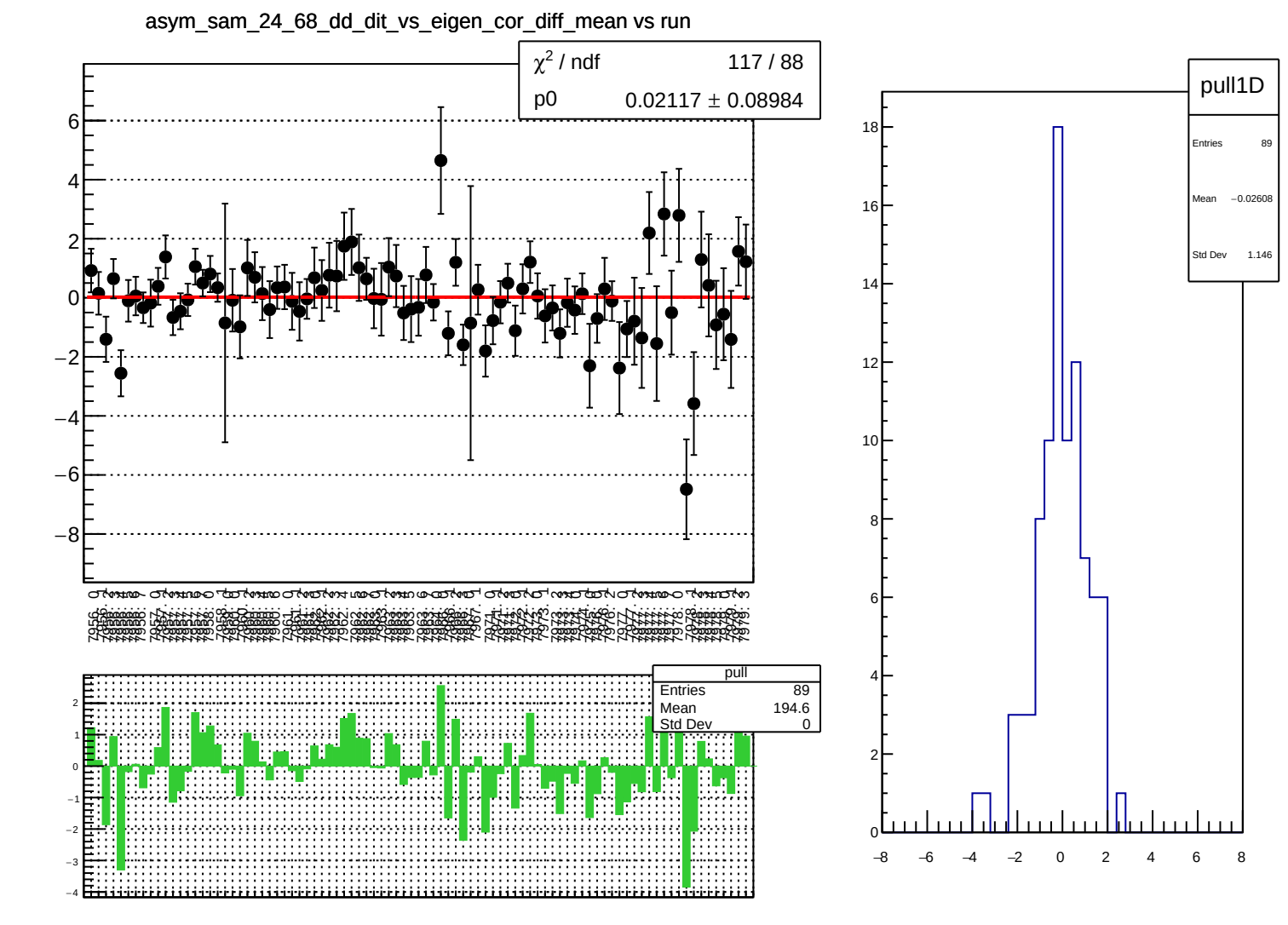

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 114.6 / 88
p0 5.062e−13 ± 5.29e−13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 38.73
Std Dev 28.19
2
1
0
−1
−2
−3
−4

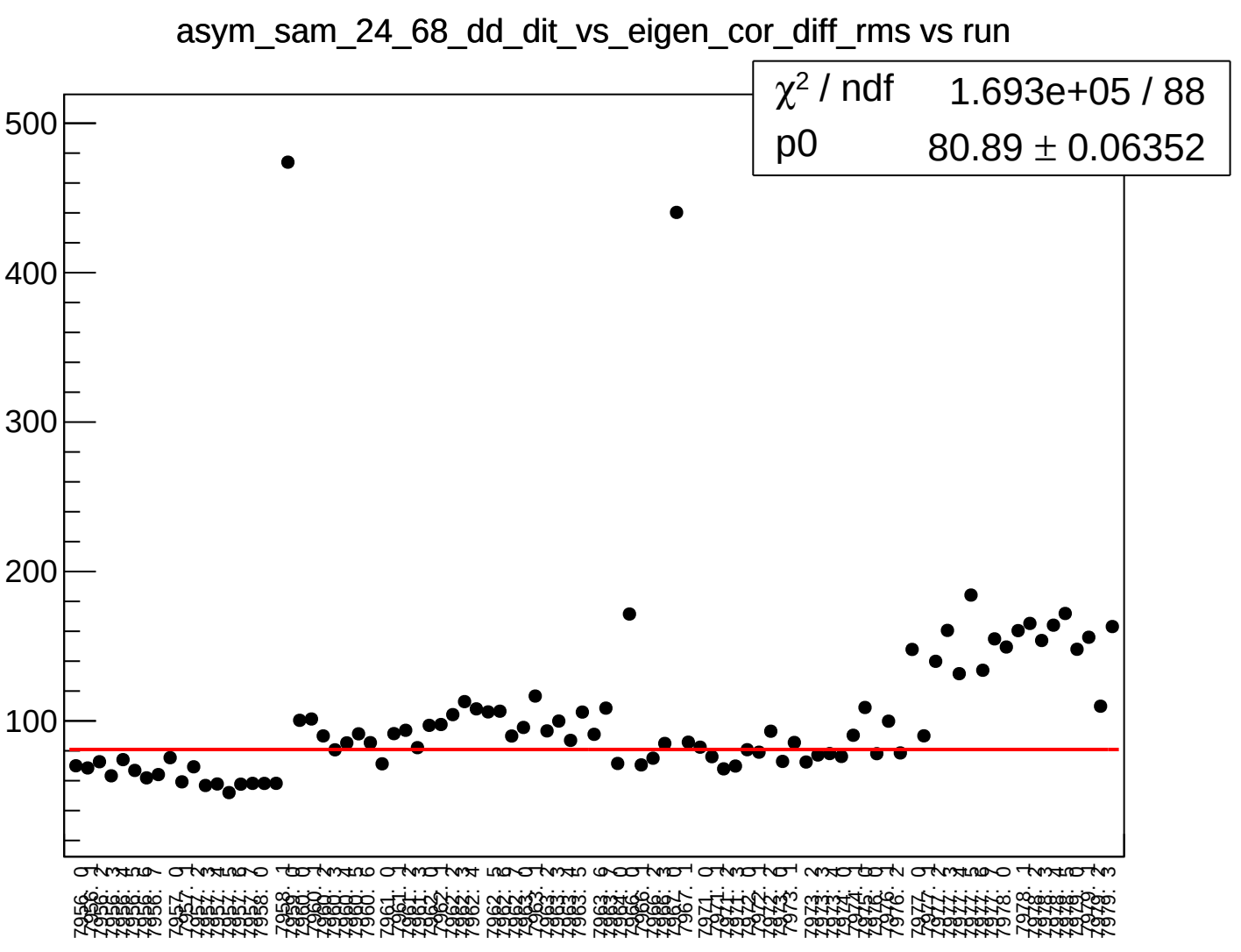

pull1D
Entries 89
Mean 0.106
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

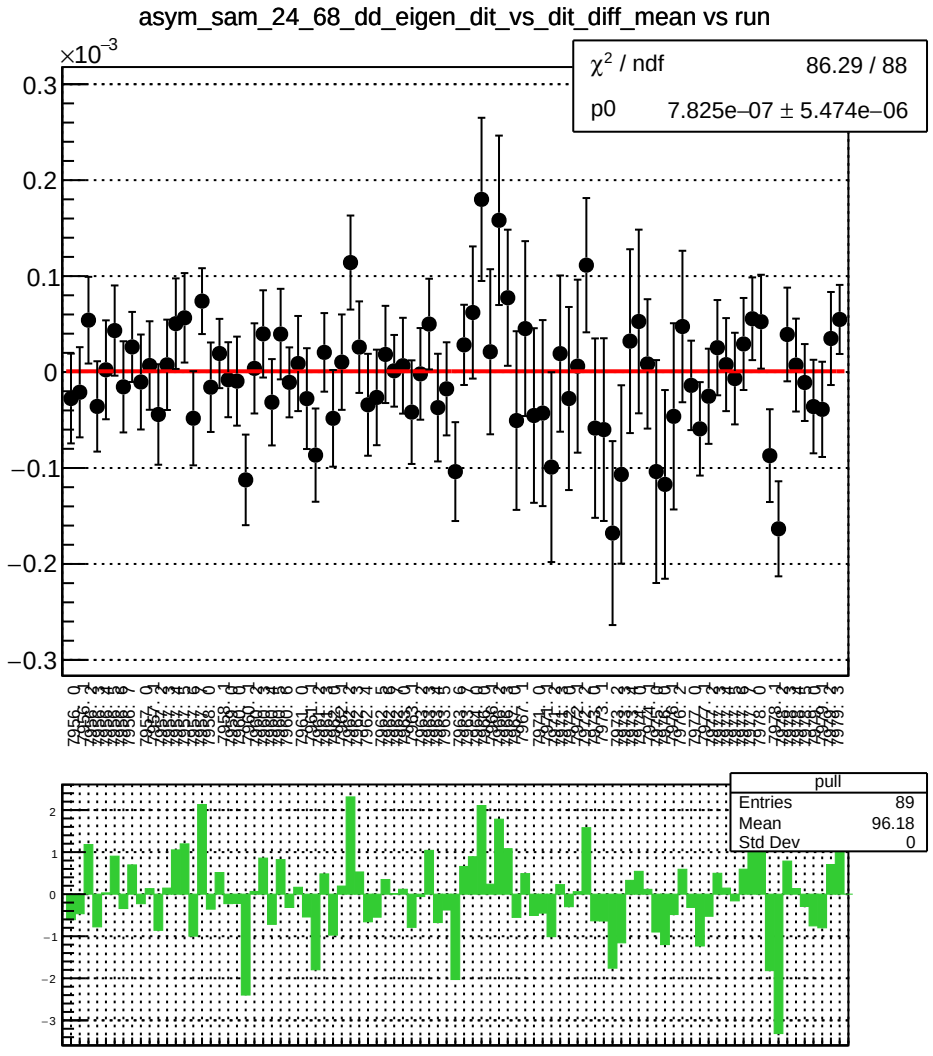

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.767e+05 / 88
p0 3.374e−10 ± 3.74e−13
0.05
0.04
0.03
0.02
0.01
0

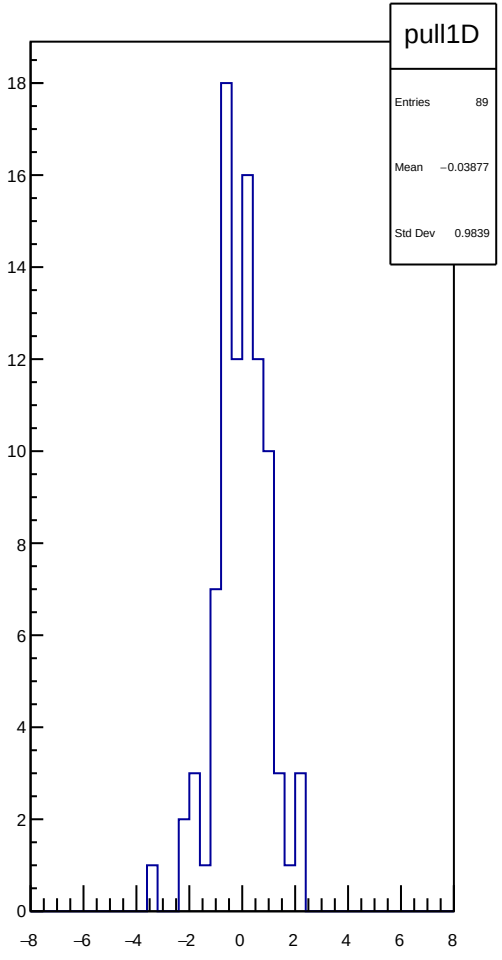

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 117 / 88
p0 0.02117 ± 0.08984
pull
Entries 89
Mean 194.6
Std Dev 0
pull1D
Entries 89
Mean −0.02608
Std Dev 1.146

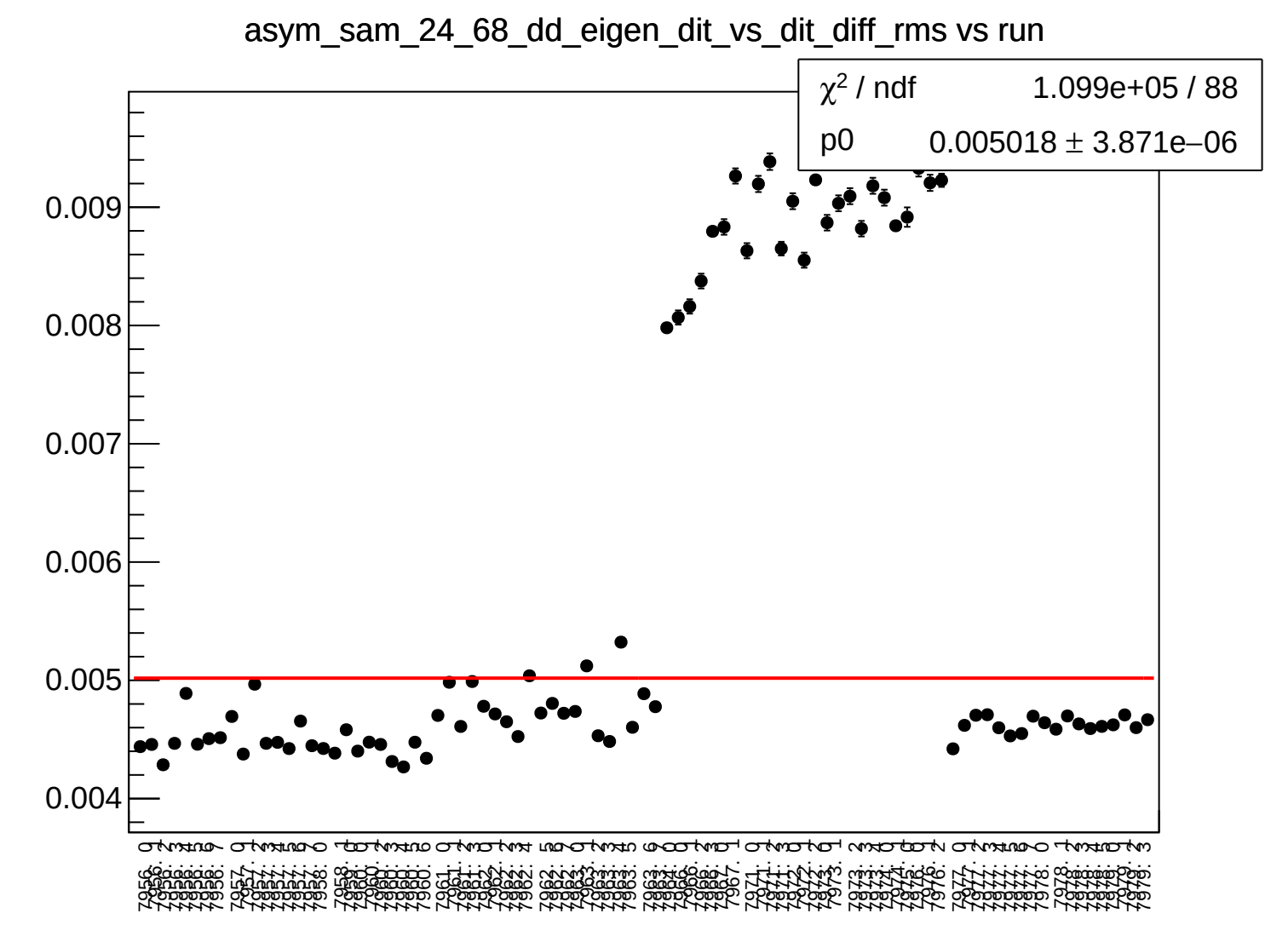

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.693e+05 / 88
p0 80.89 ± 0.06352
500
400
300
200
100

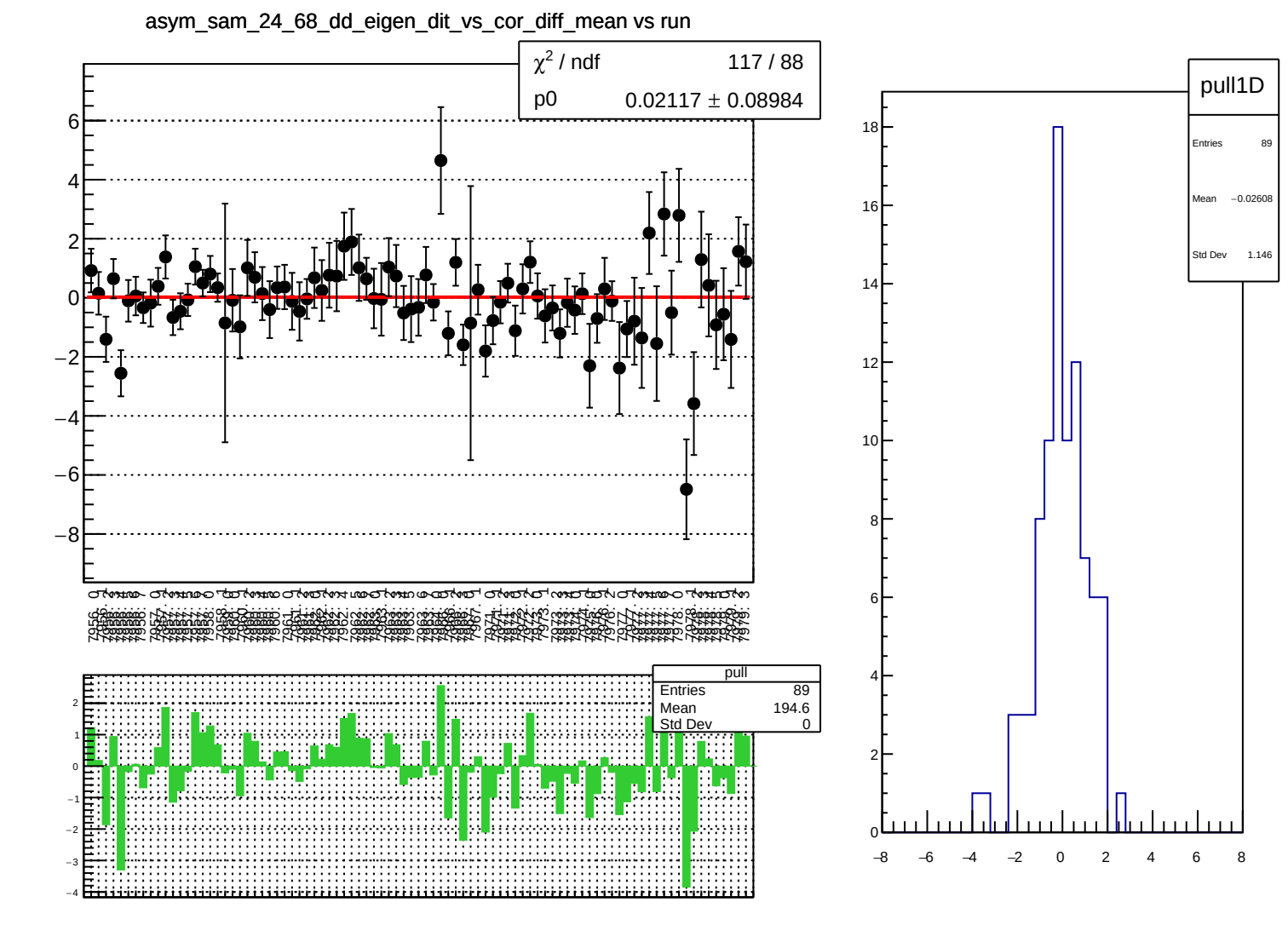

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117 / 88
p0 0.02117 ± 0.08984
pull
Entries 89
Mean 194.6
Std Dev 0
pull1D
Entries 89
Mean −0.02608
Std Dev 1.146

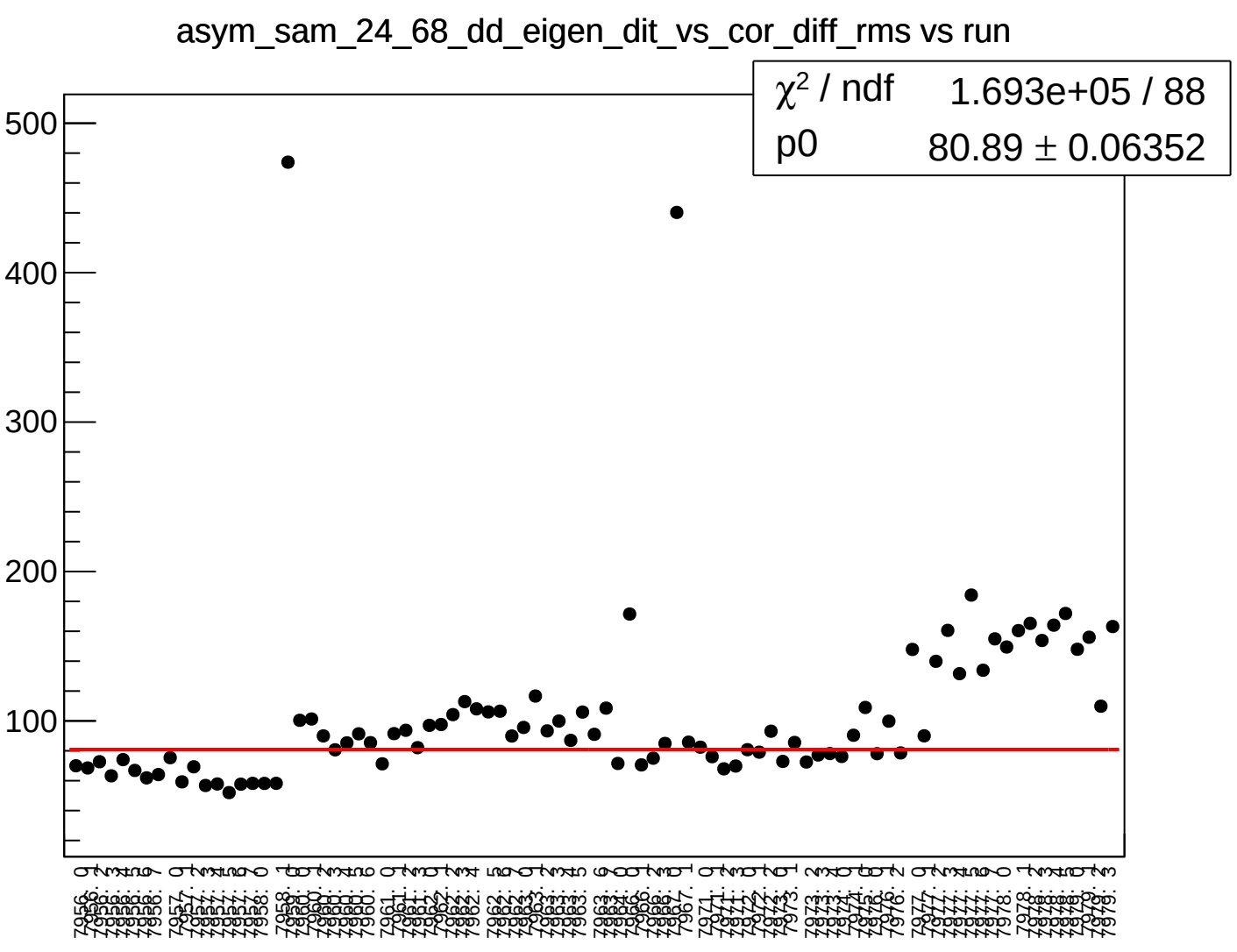

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.693e+05 / 88
p0 80.89 ± 0.06352
500
400
300
200
100


asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 86.29 / 88
p0 7.825e−07 ± 5.474e−06
pull
Entries 89
Mean 96.18
Std Dev 0

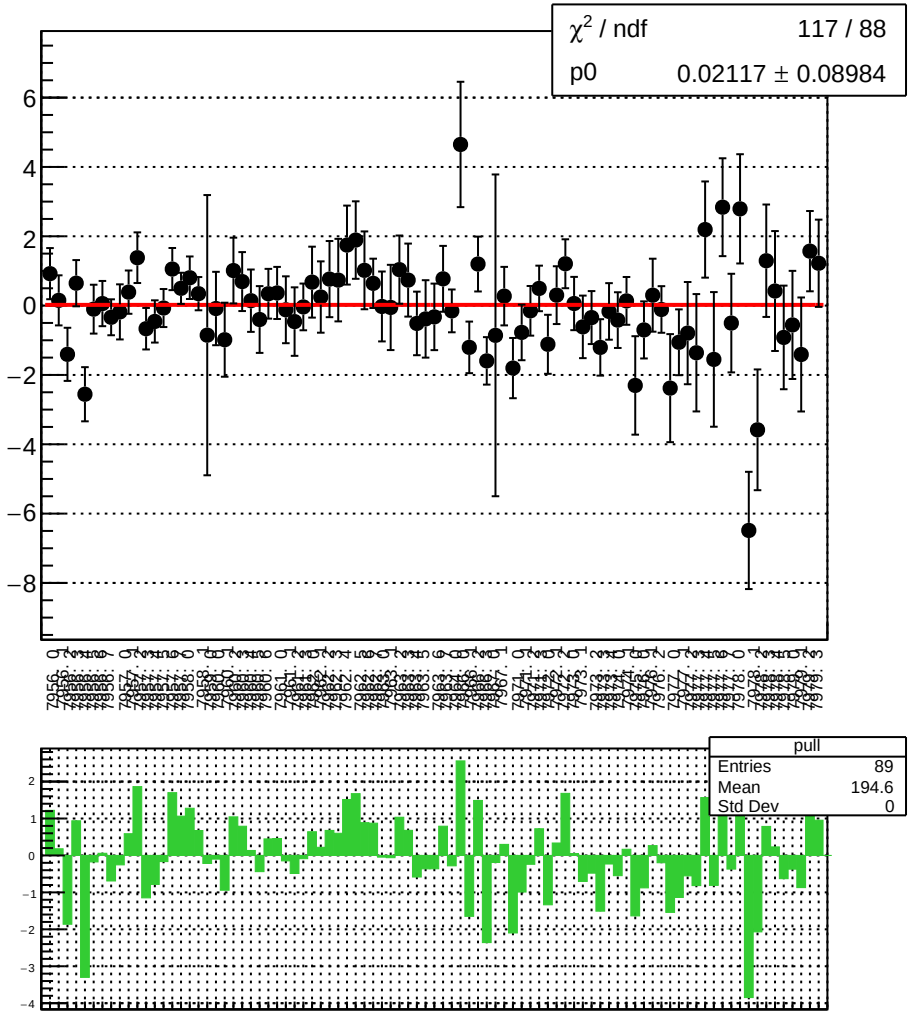

pull1D
Entries 89
Mean −0.03877
Std Dev 0.9839

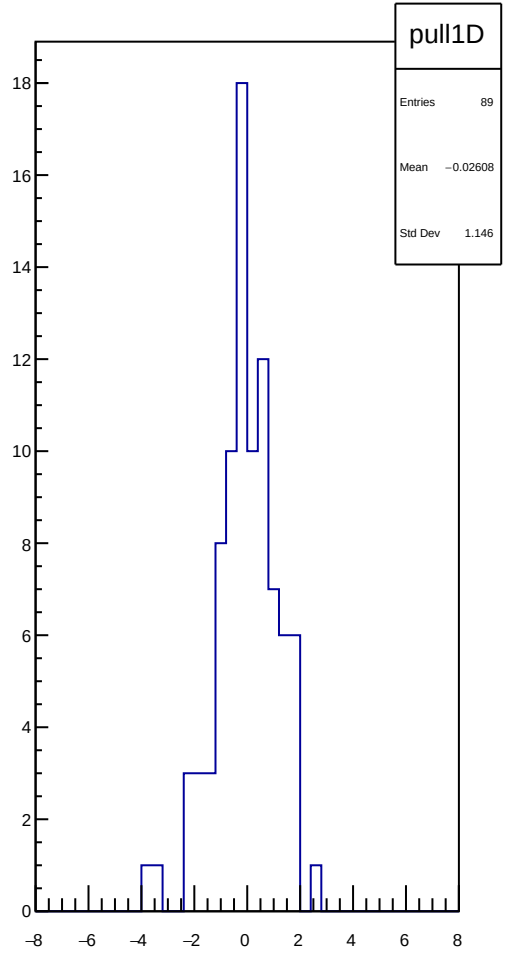

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.099e+05 / 88
p0 0.005018 ± 3.871e−06
0.009
0.008
0.007
0.006
0.005
0.004

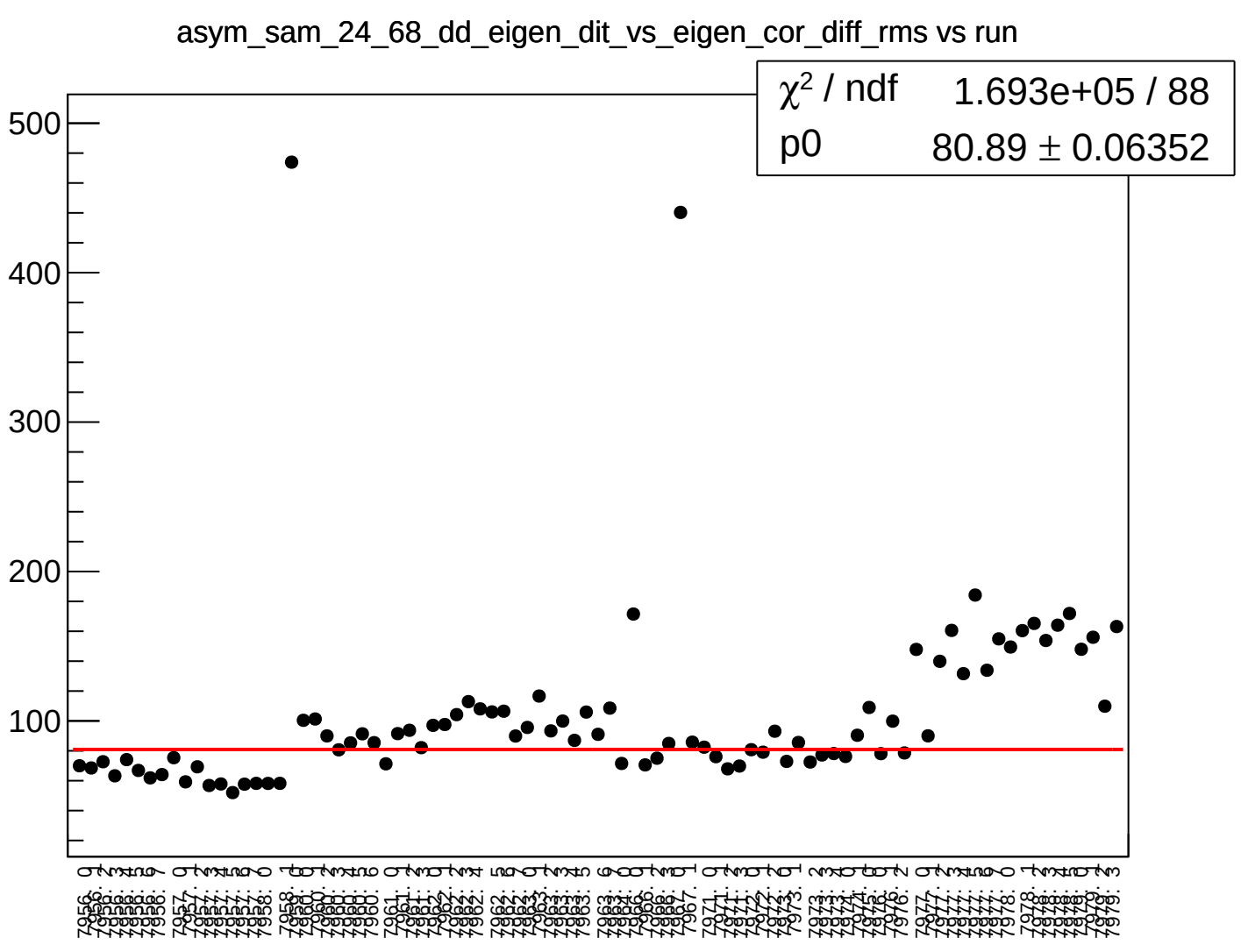

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117 / 88
p0 0.02117 ± 0.08984
pull
Entries 89
Mean 194.6
Std Dev 0
pull1D
Entries 89
Mean −0.02608
Std Dev 1.146

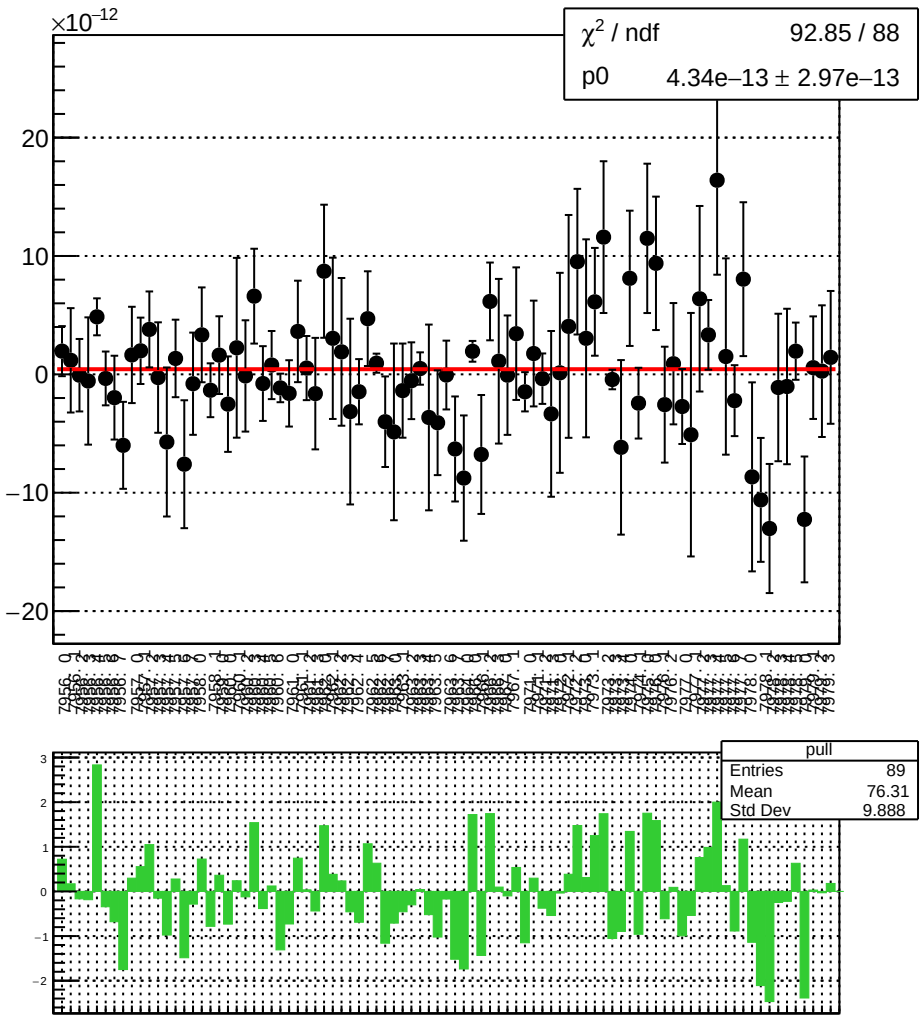

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.693e+05 / 88
p0 80.89 ± 0.06352
500
400
300
200
100

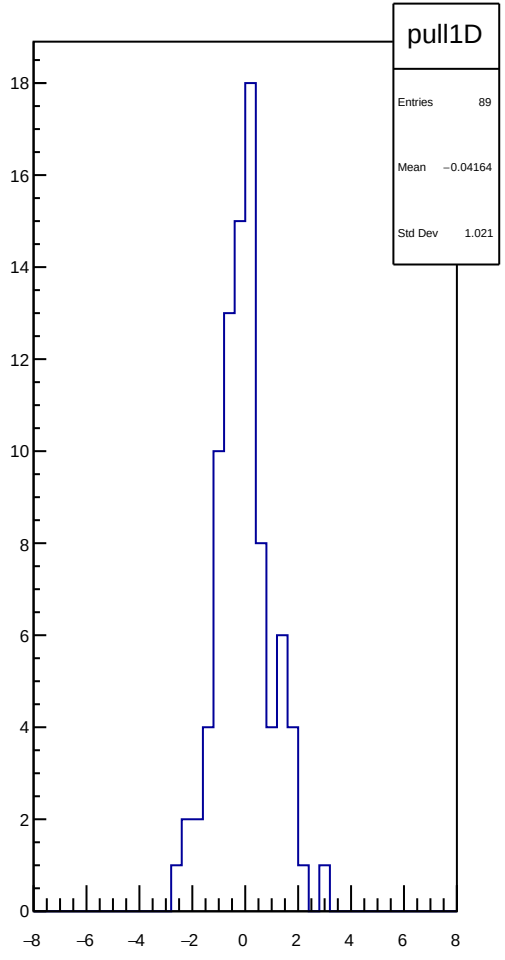
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

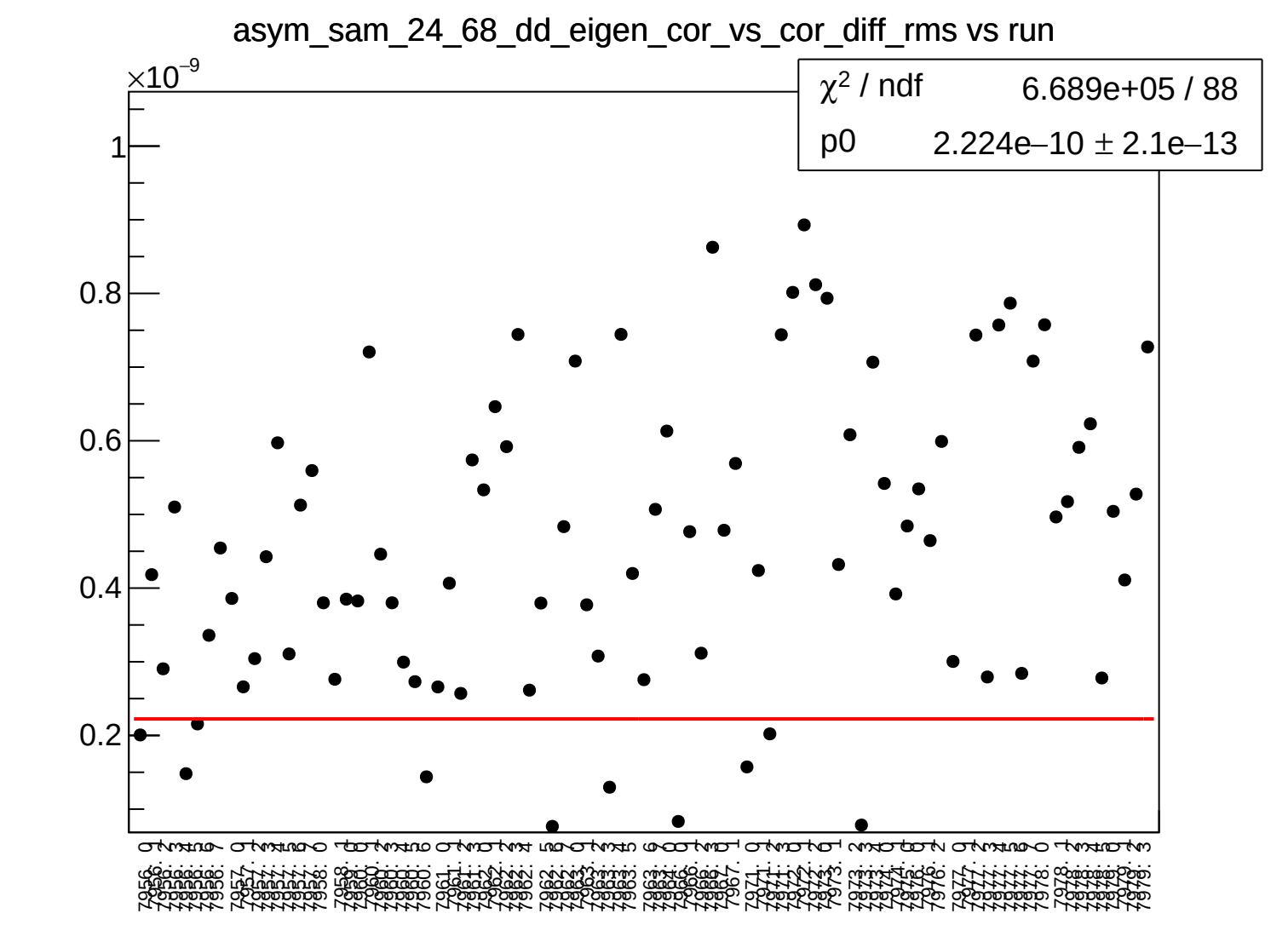


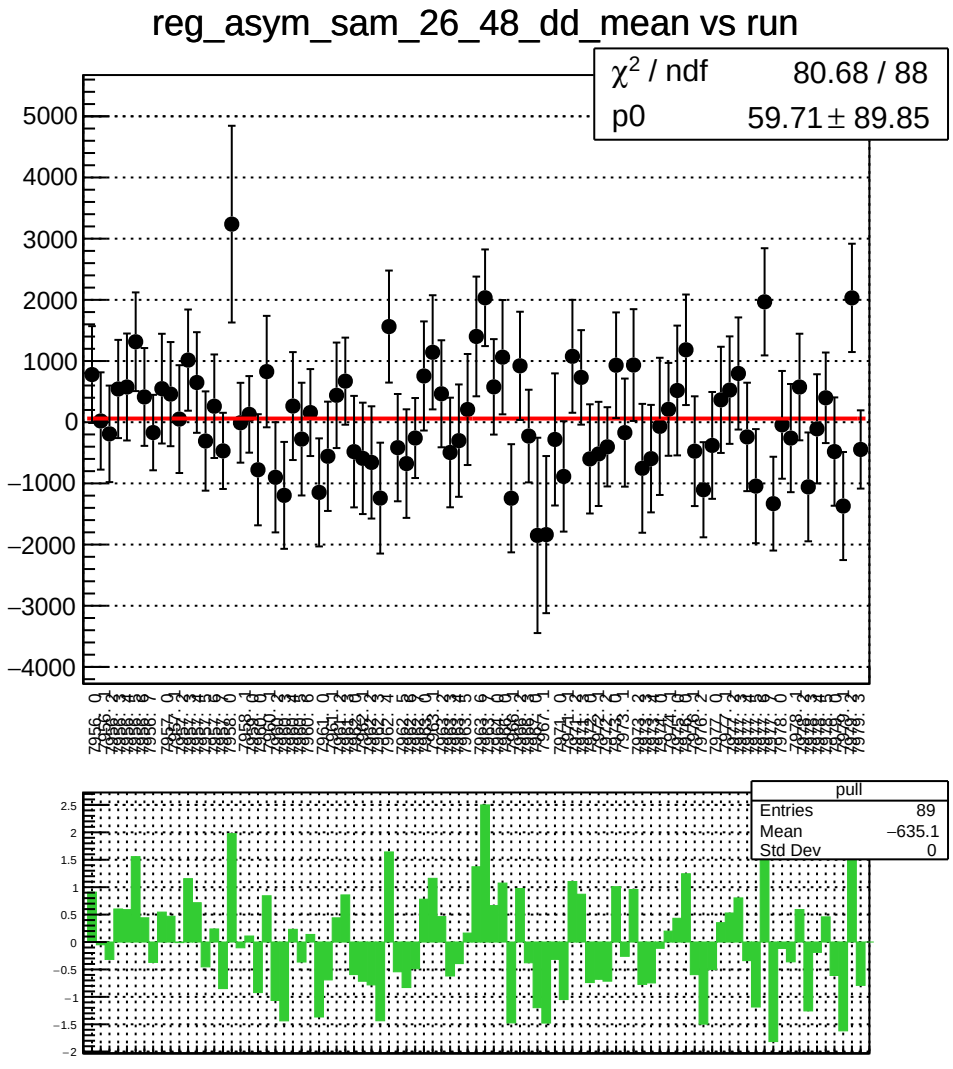



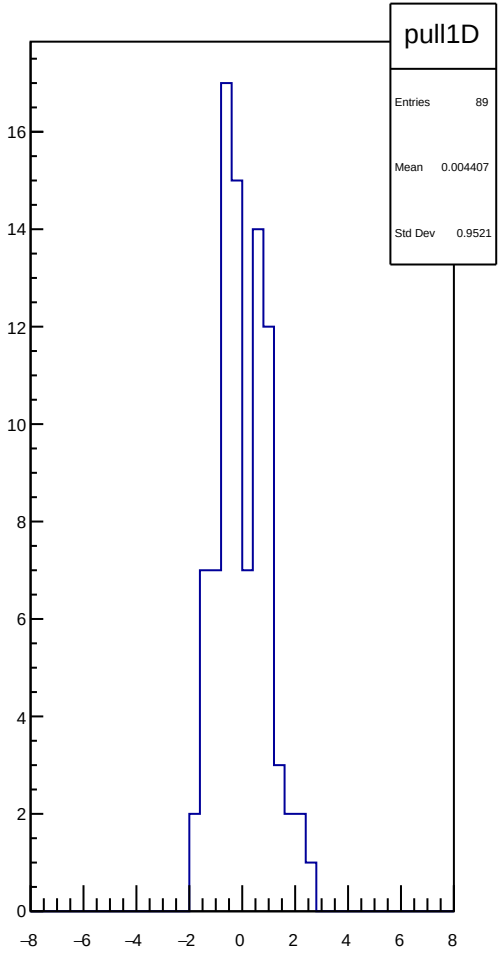

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.693e+05 / 88
p0 80.89 ± 0.06352
500
400
300
200
100

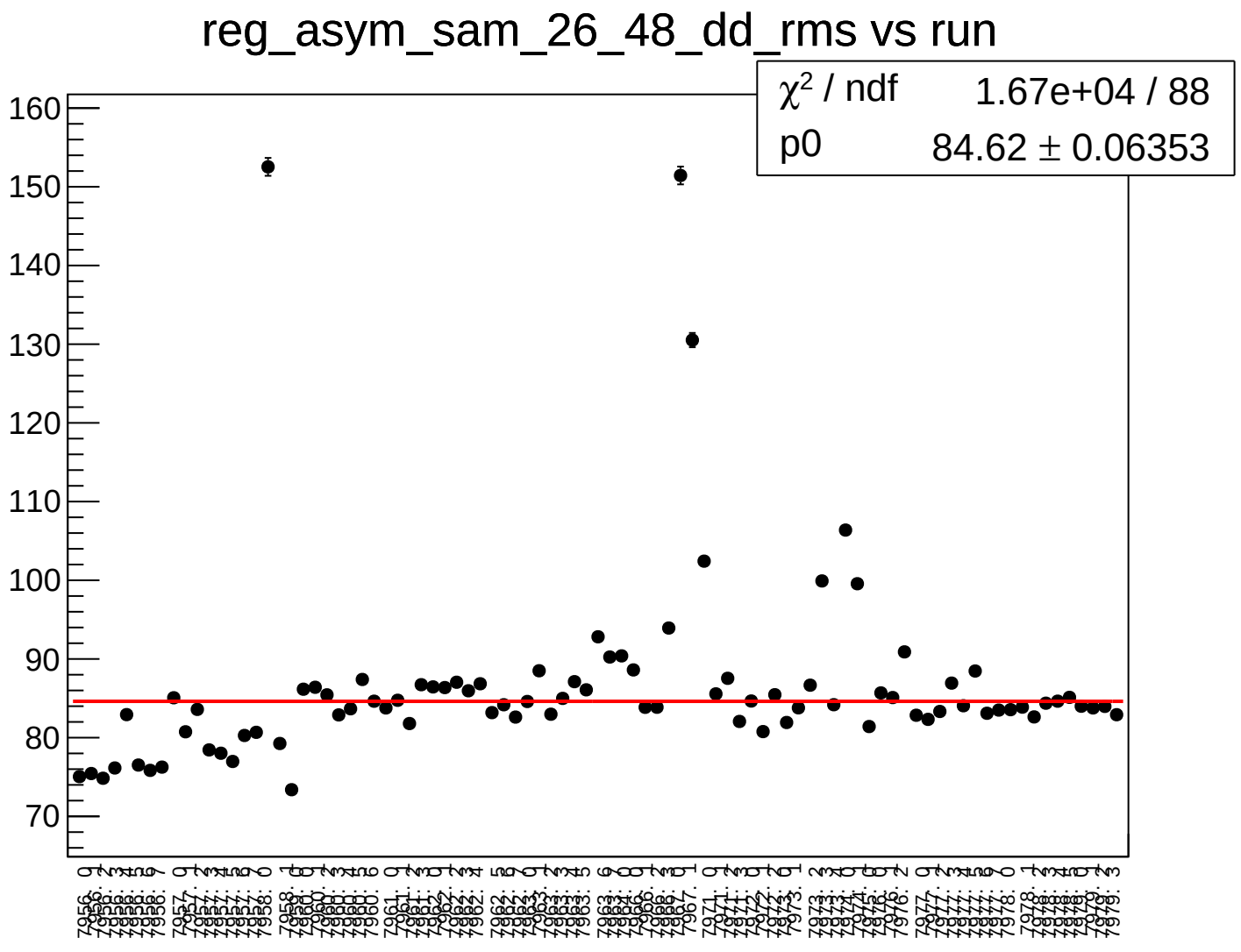

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.85 / 88
p0 4.34e−13 ± 2.97e−13
20
10
0
−10
−20
pull
Entries 89
Mean 76.31
Std Dev 9.888
3
2
1
0
−1
−2

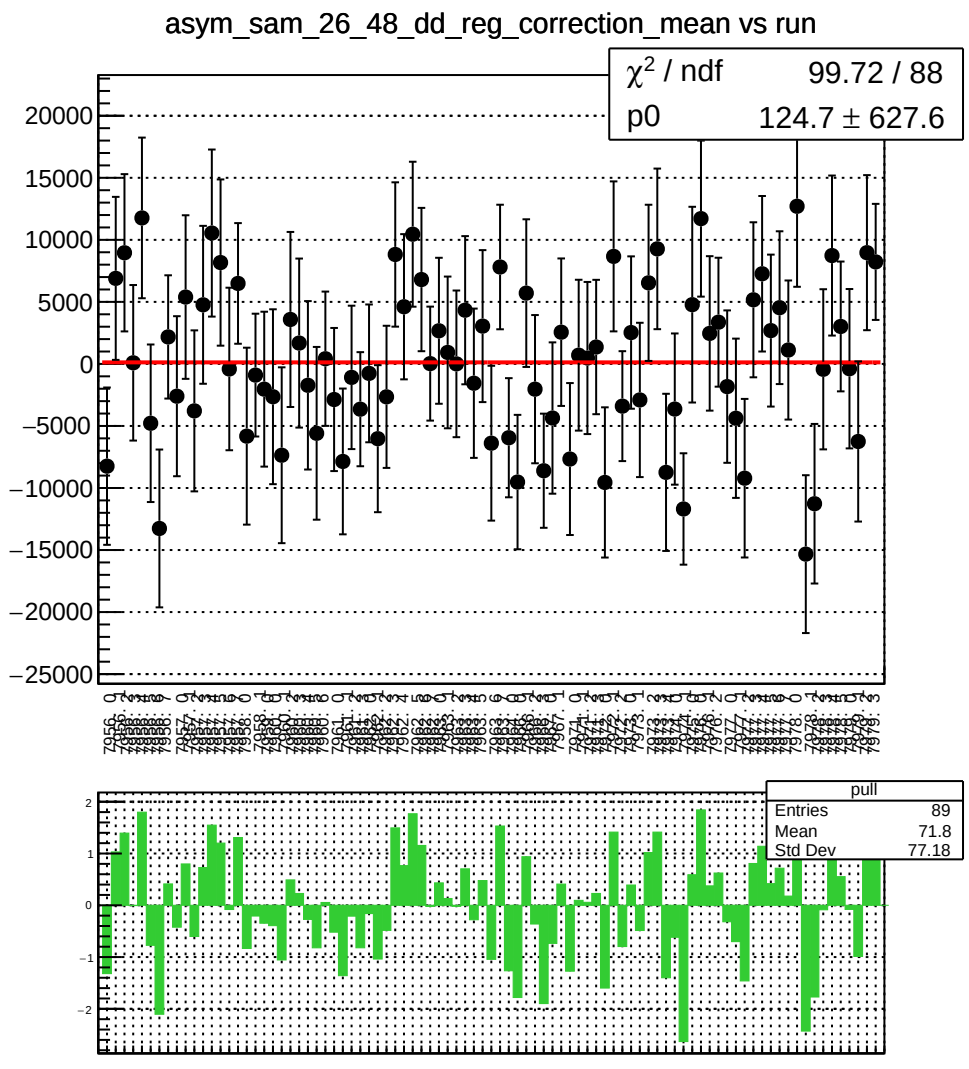

pull1D
Entries 89
Mean −0.04164
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

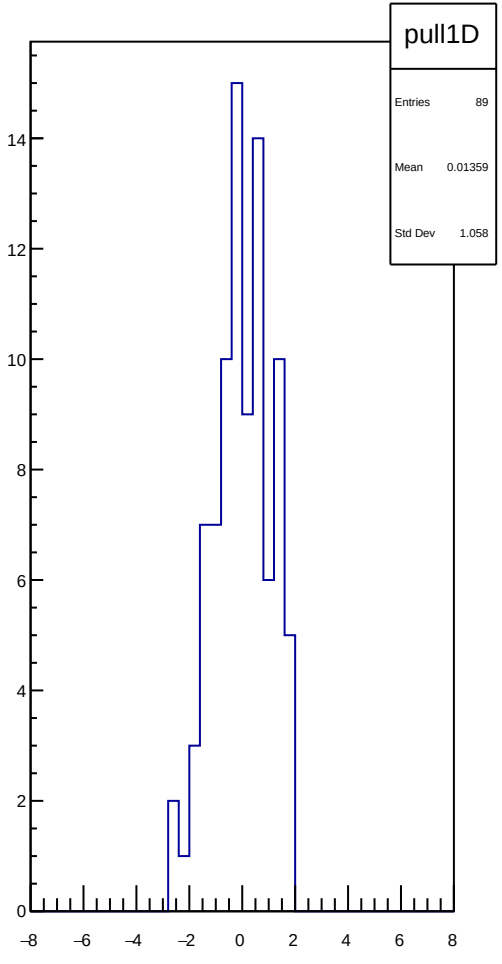

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.689e+05 / 88
p0 2.224e−10 ± 2.1e−13
1
0.8
0.6
0.4
0.2

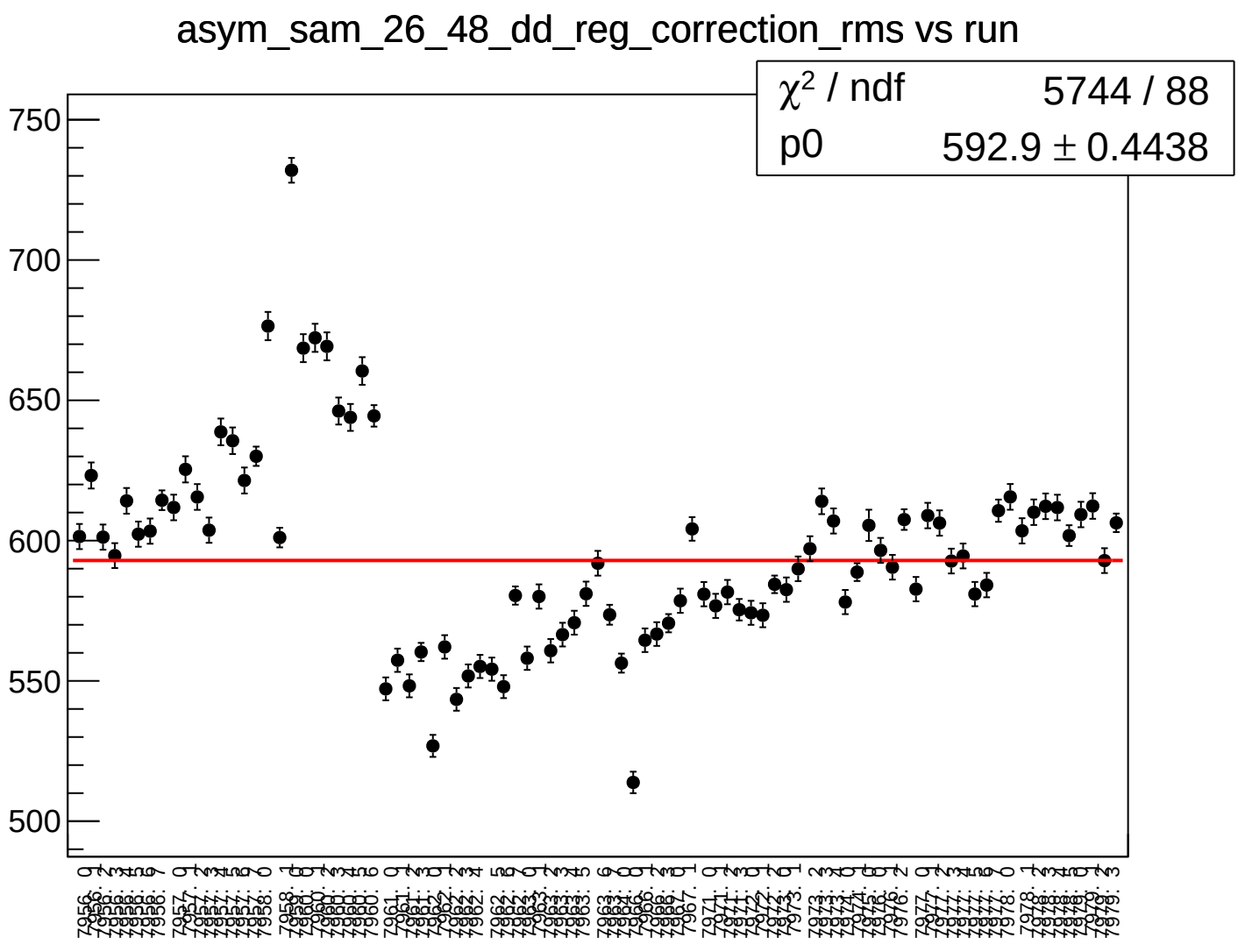

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 80.68 / 88
p0 59.71 ± 89.85
pull
Entries 89
Mean −635.1
Std Dev 0

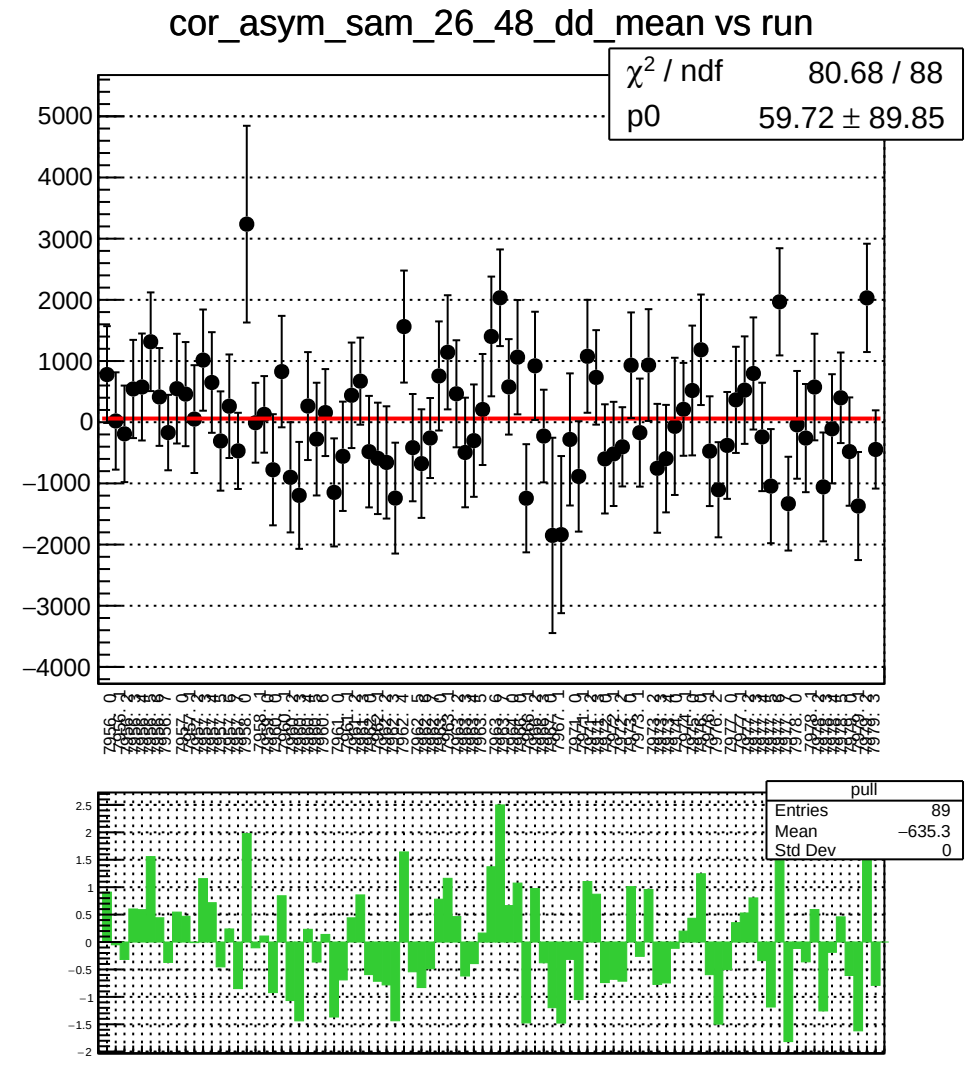

pull1D
Entries 89
Mean 0.004407
Std Dev 0.9521

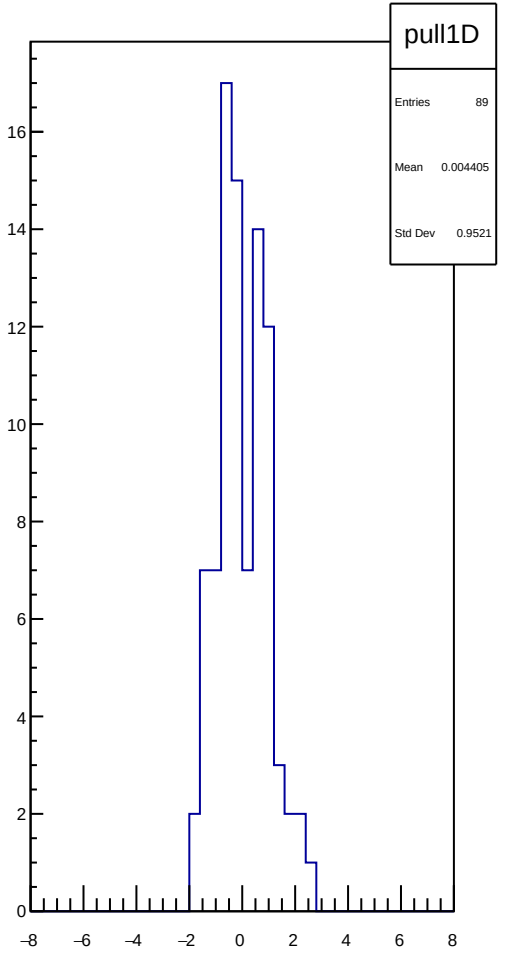

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.67e+04 / 88
p0 84.62 ± 0.06353
160
150
140
130
120
110
100
90
80
70

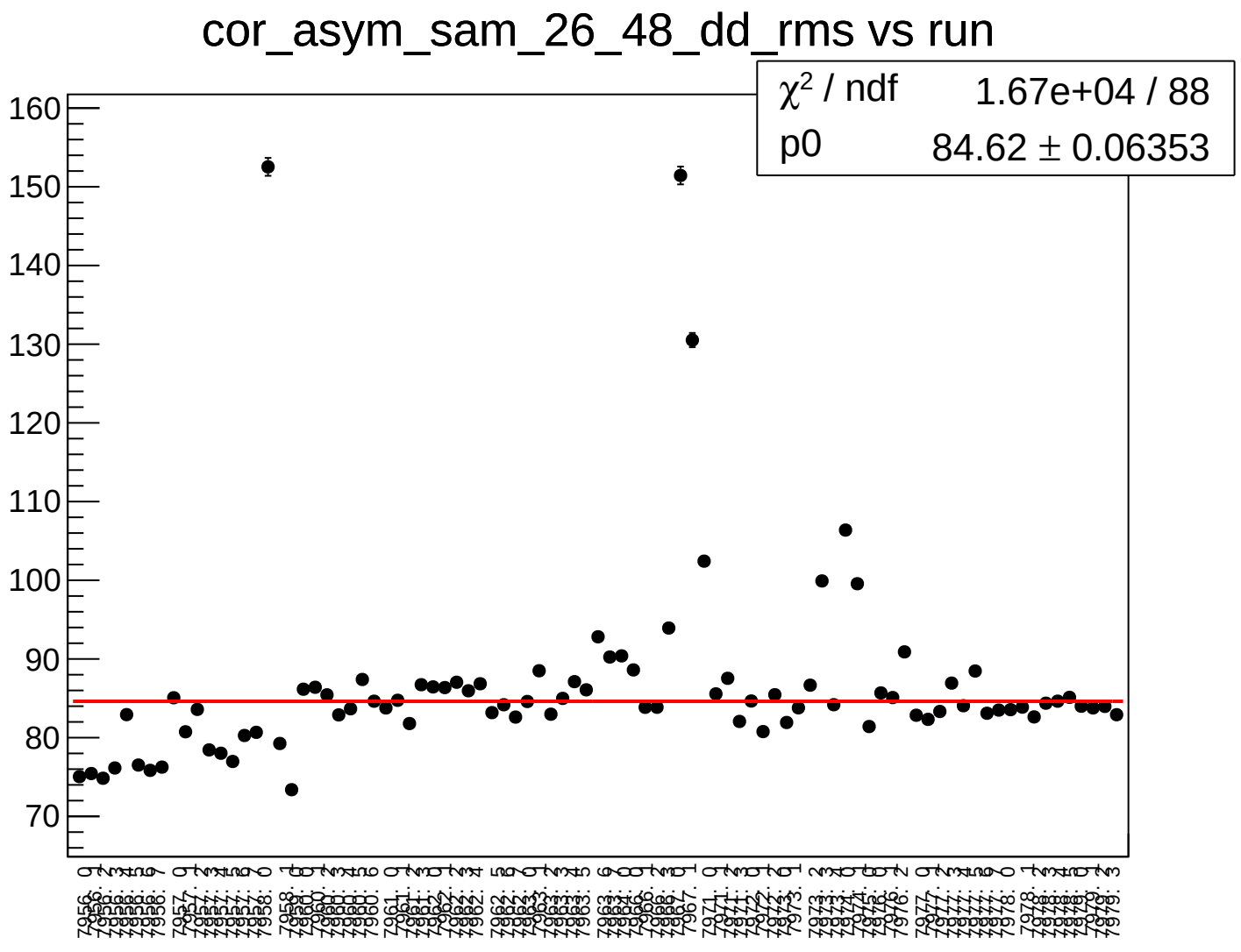

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 99.72 / 88
p0 124.7 ± 627.6
pull
Entries 89
Mean 71.8
Std Dev 77.18

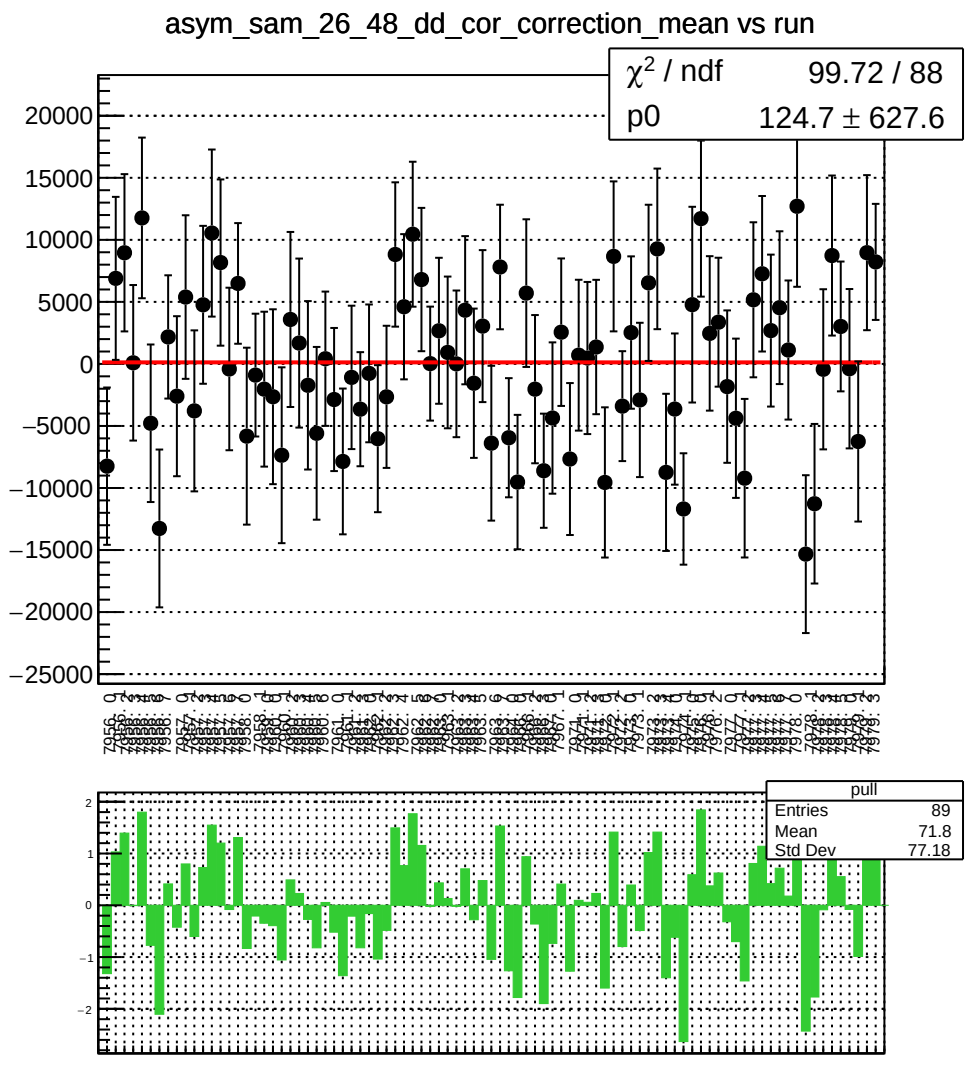

pull1D
Entries 89
Mean 0.01359
Std Dev 1.058

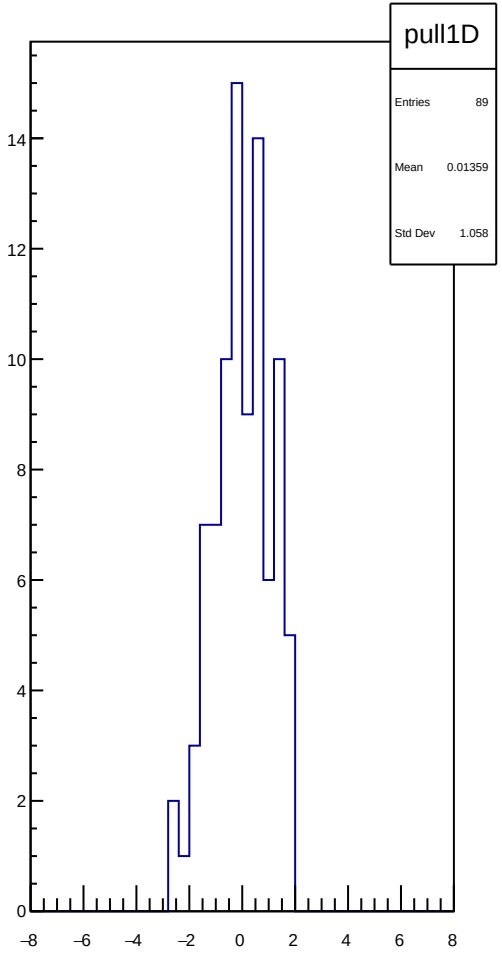

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 5744 / 88
p0 592.9 ± 0.4438
750
700
650
600
550
500

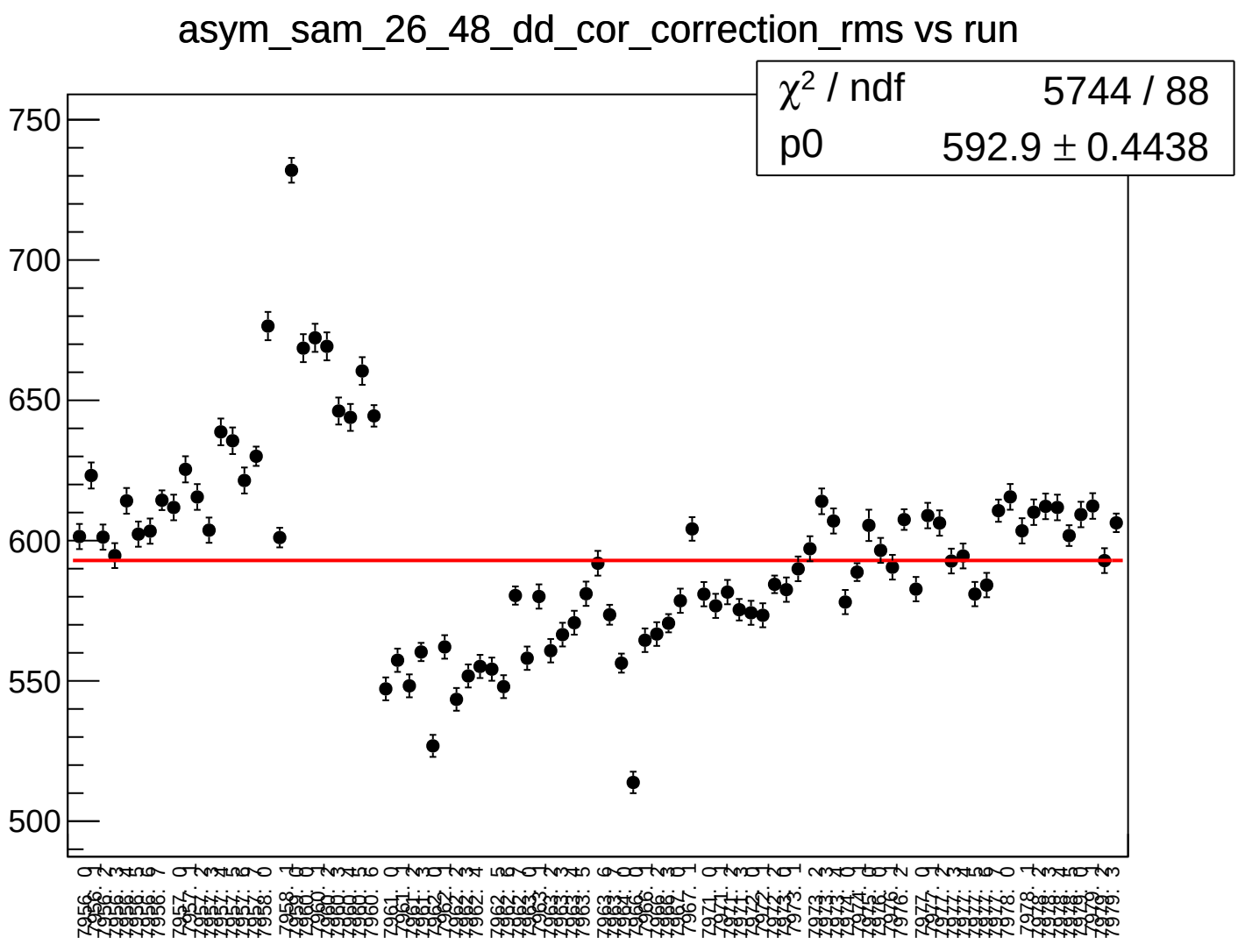

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 80.68 / 88
p0 59.72 ± 89.85
pull
Entries 89
Mean −635.3
Std Dev 0

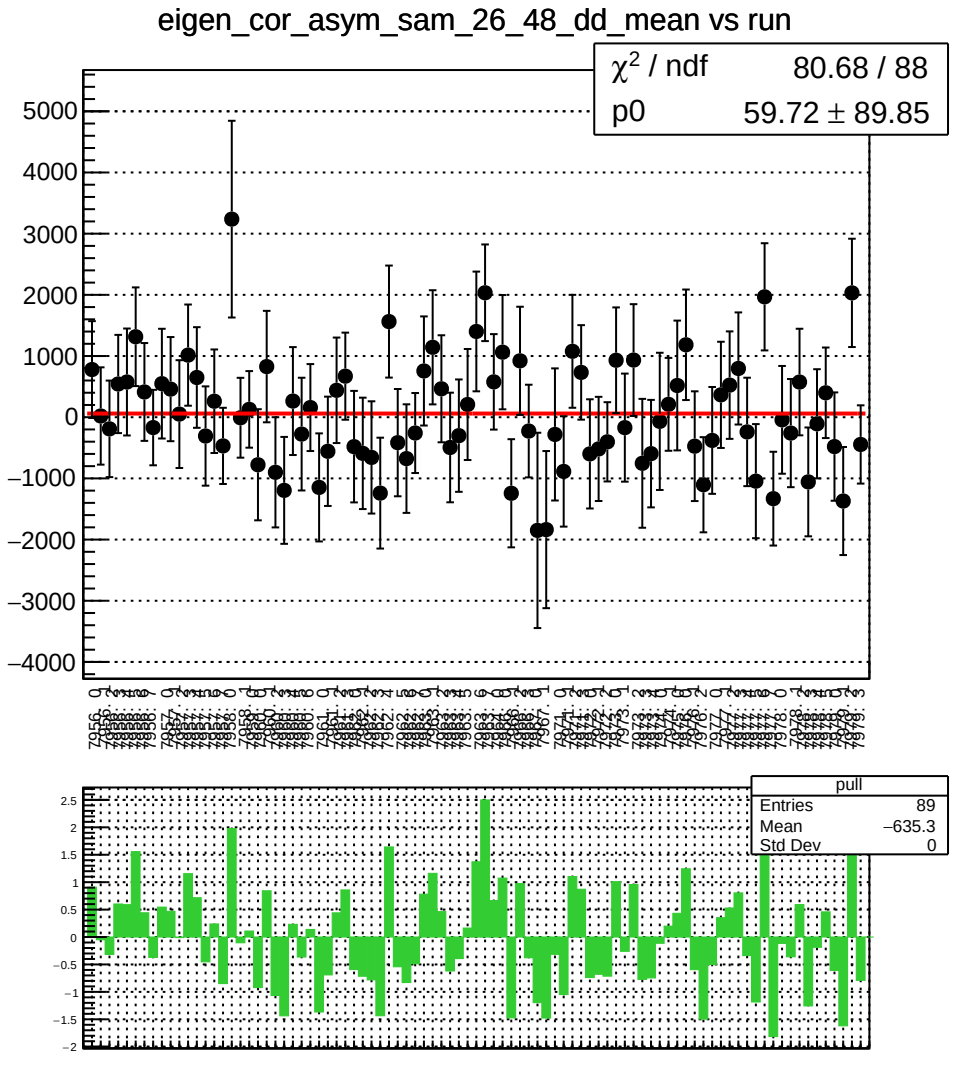

pull1D
Entries 89
Mean 0.004405
Std Dev 0.9521

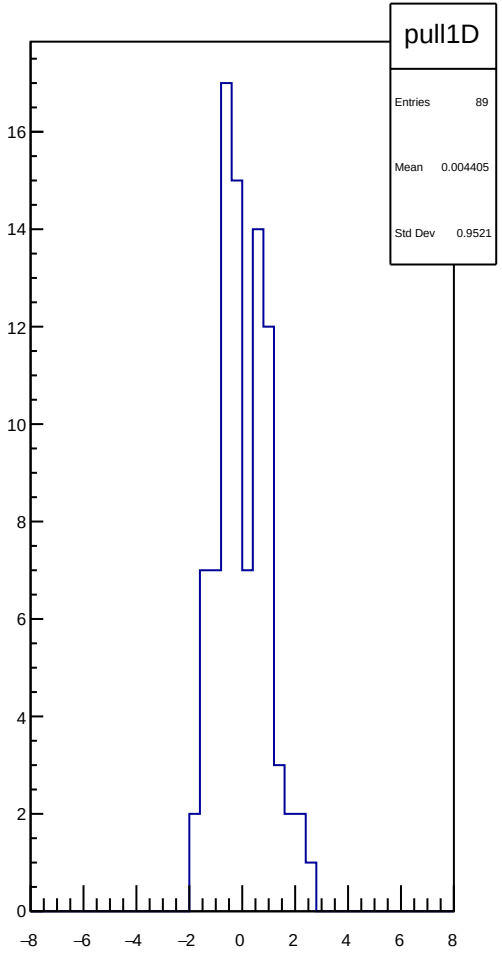

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.67e+04 / 88
p0 84.62 ± 0.06353
160
150
140
130
120
110
100
90
80
70

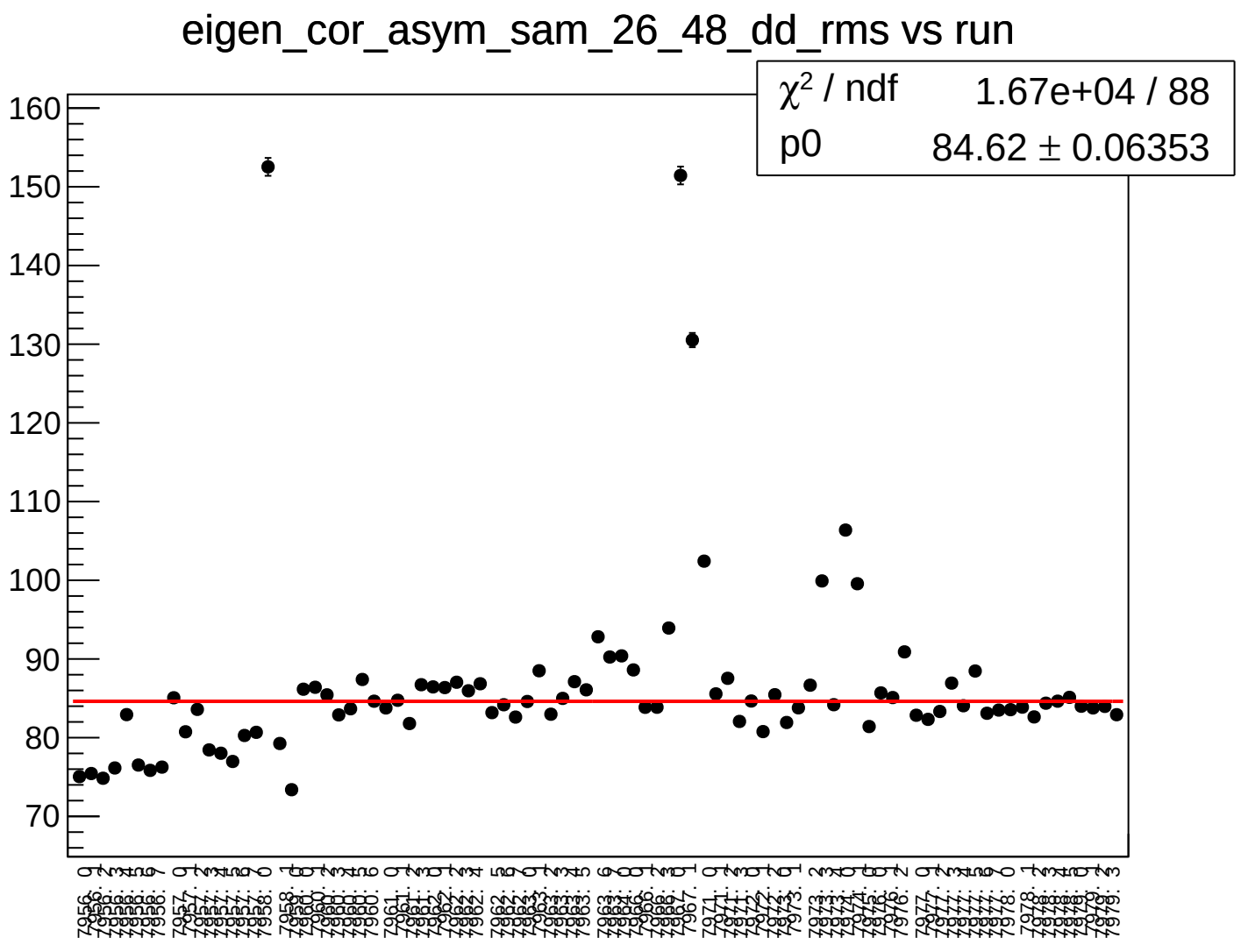

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 99.72 / 88
p0 124.7 ± 627.6
pull
Entries 89
Mean 71.8
Std Dev 77.18

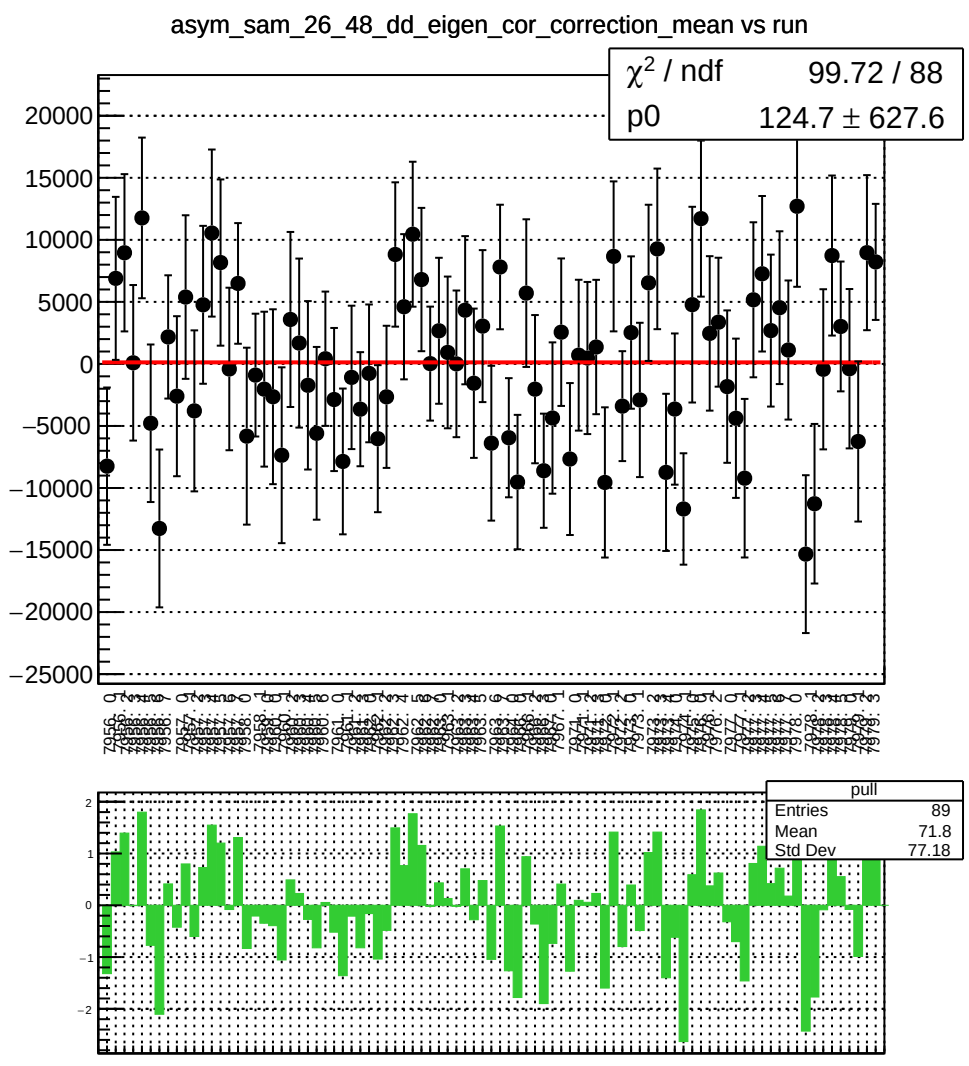

pull1D
Entries 89
Mean 0.01359
Std Dev 1.058

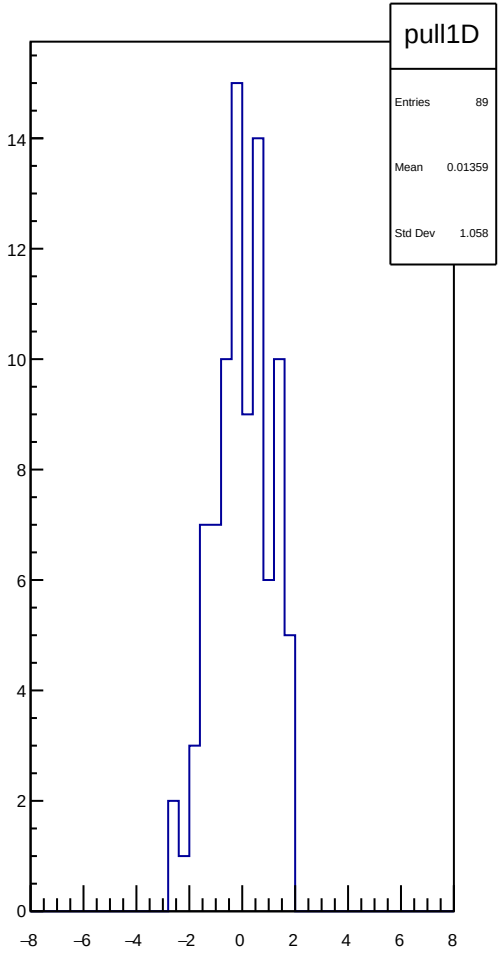

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 5744 / 88
p0 592.9 ± 0.4438
750
700
650
600
550
500

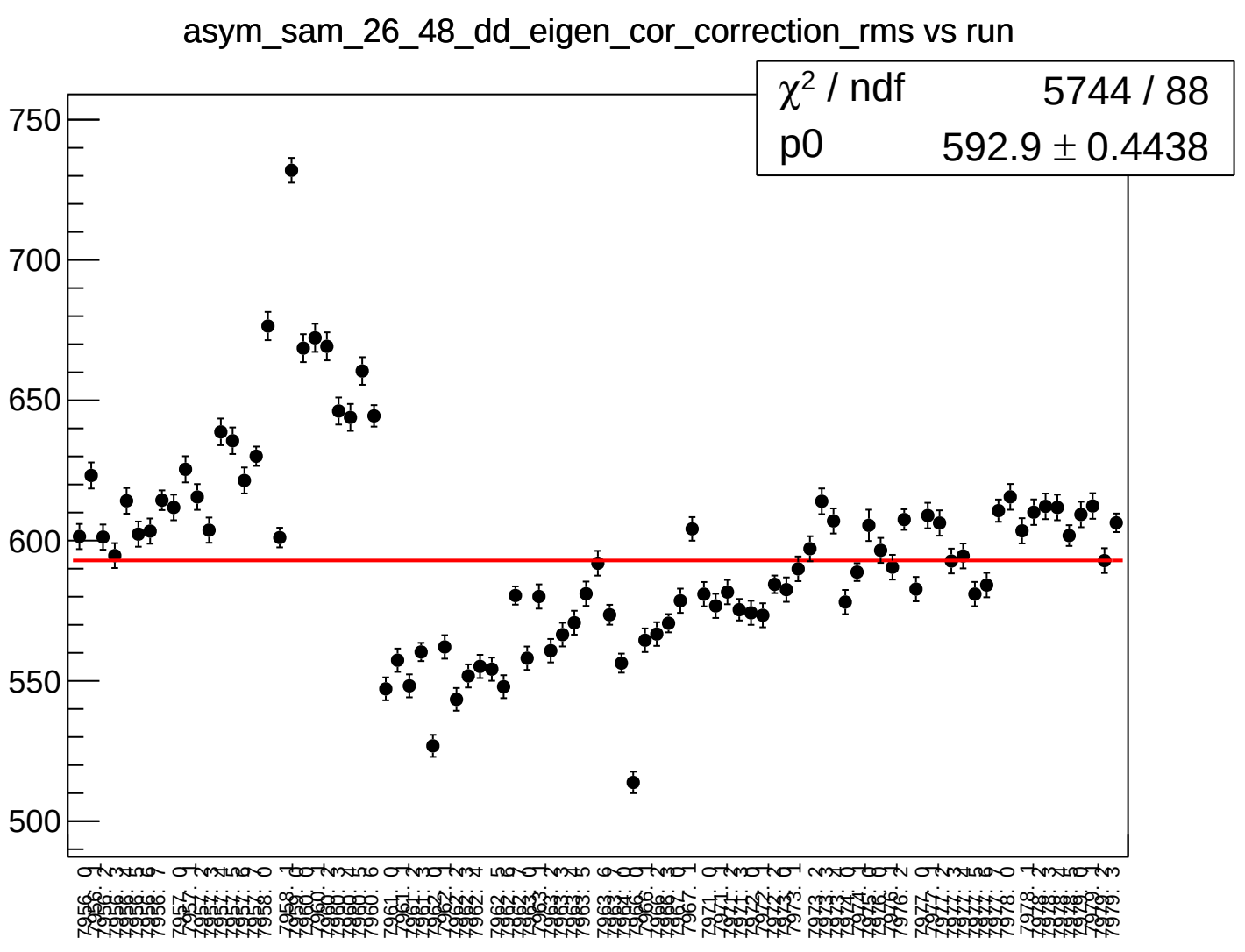

eigen_cor_asym_sam_26_48_dd_mean vs run
$\chi^2$ / ndf 80.68 / 88
p0 59.72 ± 89.85
pull
Entries 89
Mean −635.3
Std Dev 0

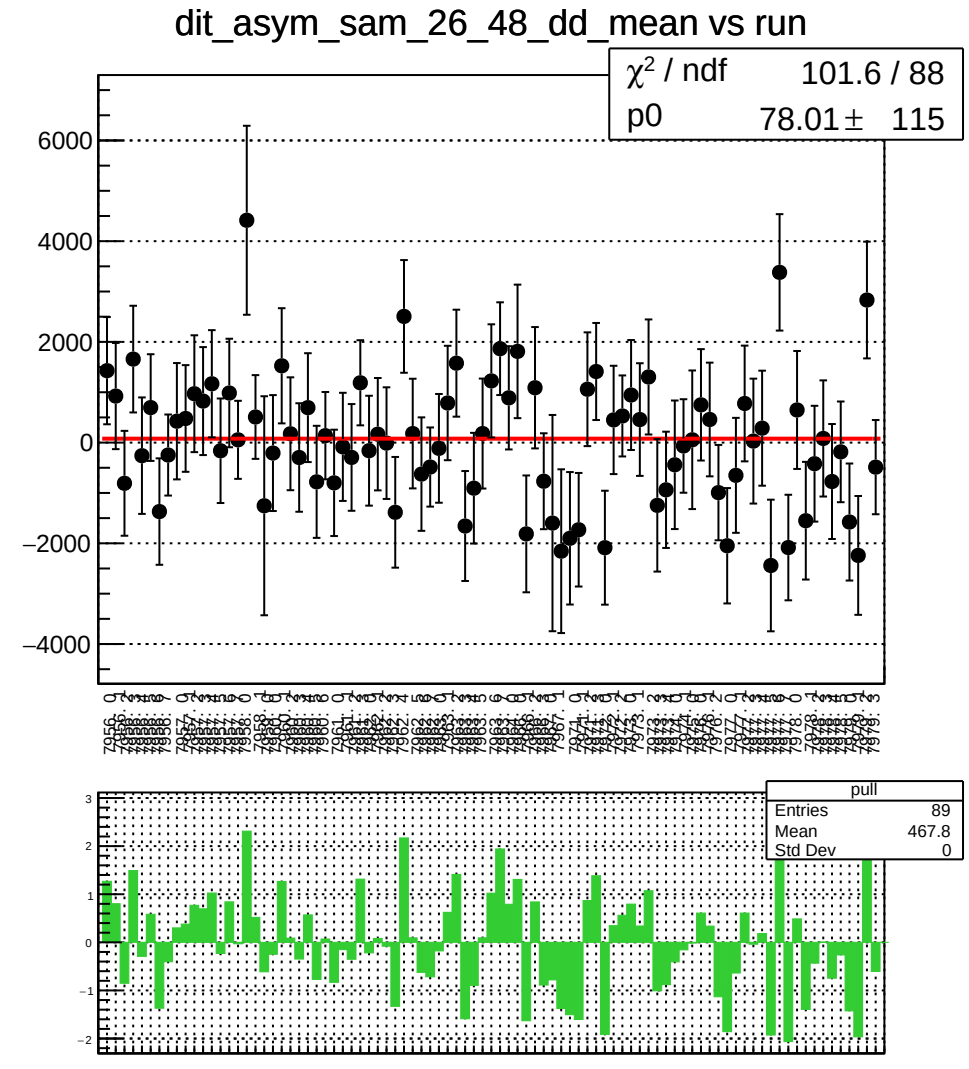

pull1D
Entries 89
Mean 0.004405
Std Dev 0.9521

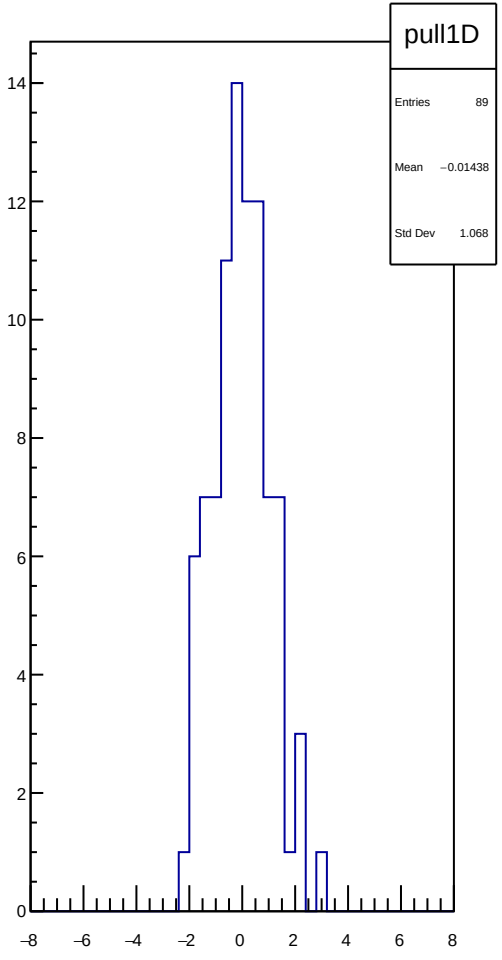

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.67e+04 / 88
p0 84.62 ± 0.06353
160
150
140
130
120
110
100
90
80
70

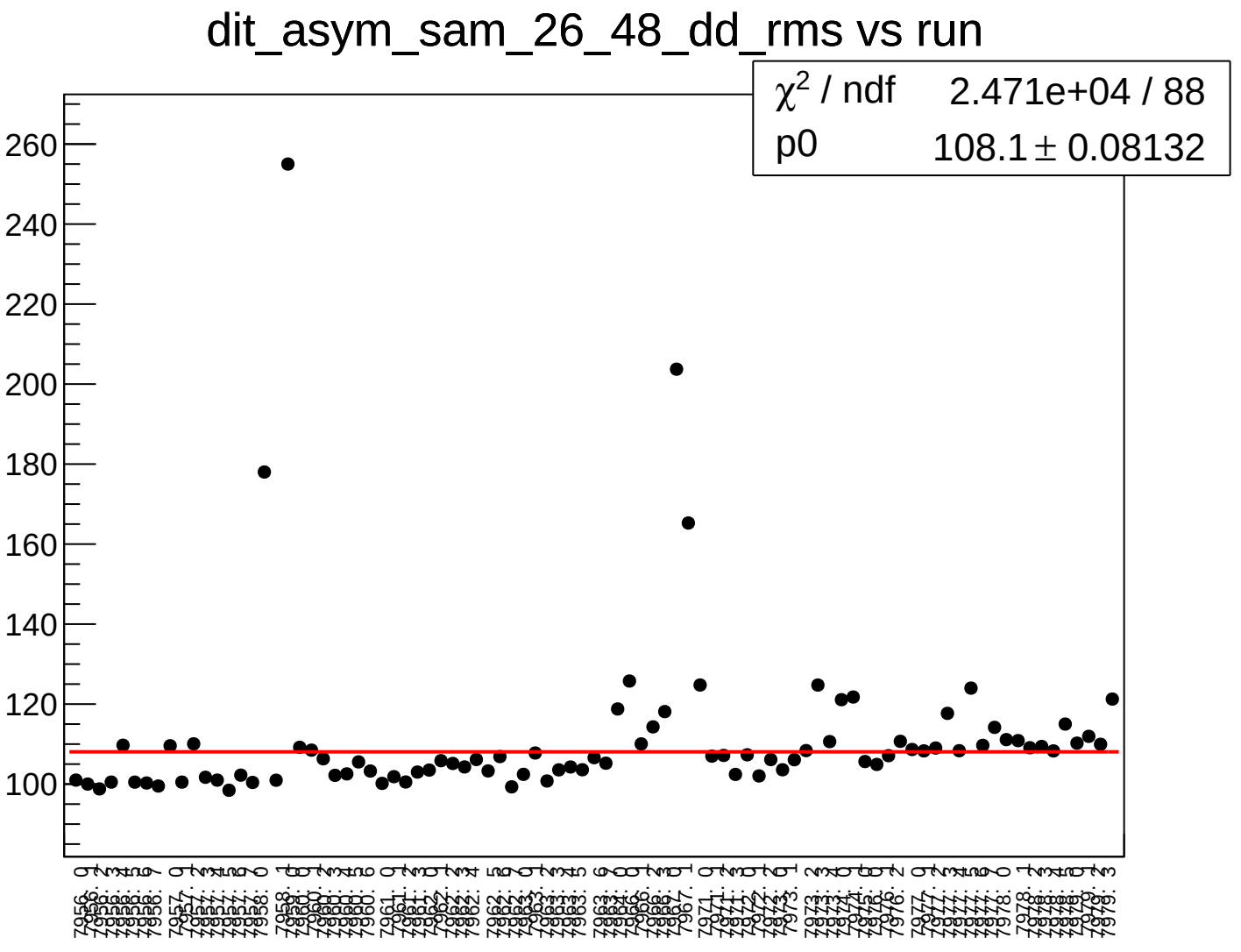

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.72 / 88
p0 124.7 ± 627.6
pull
Entries 89
Mean 71.8
Std Dev 77.18

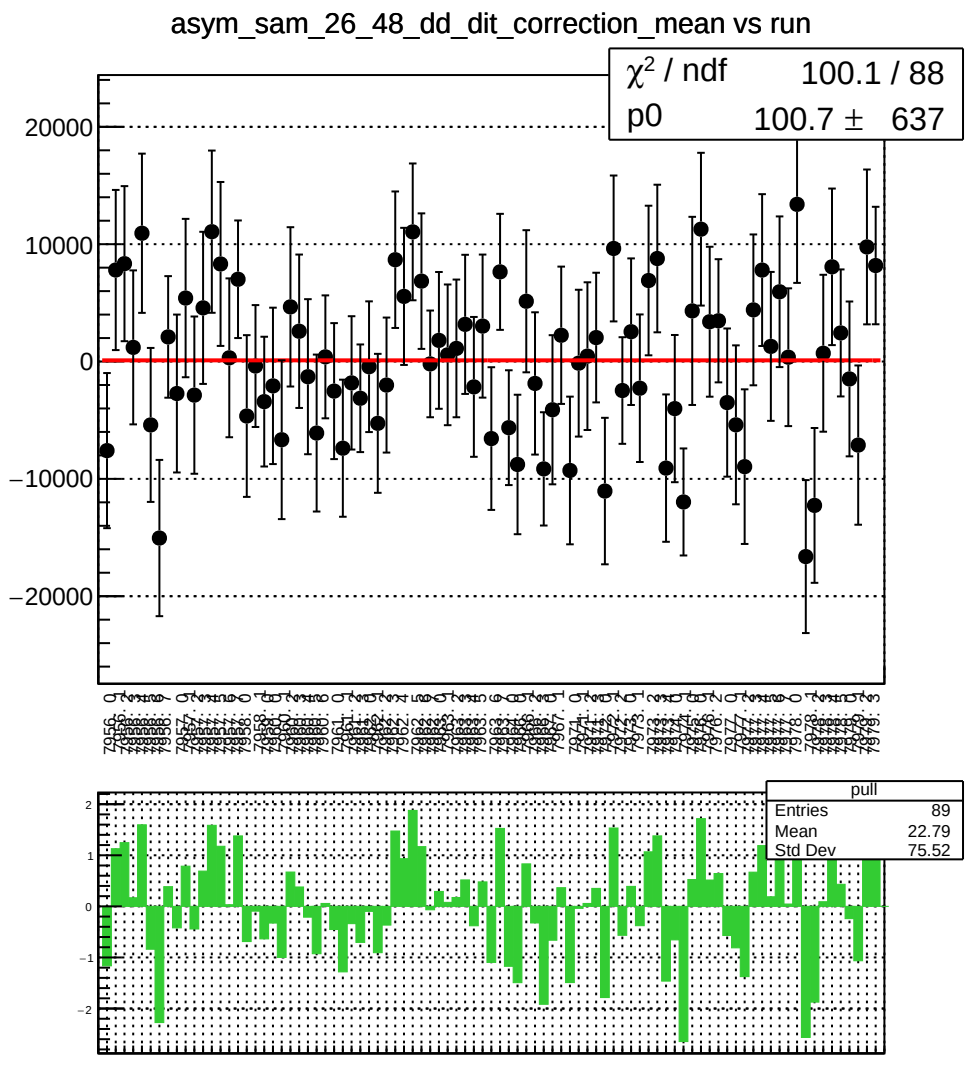

pull1D
Entries 89
Mean 0.01359
Std Dev 1.058

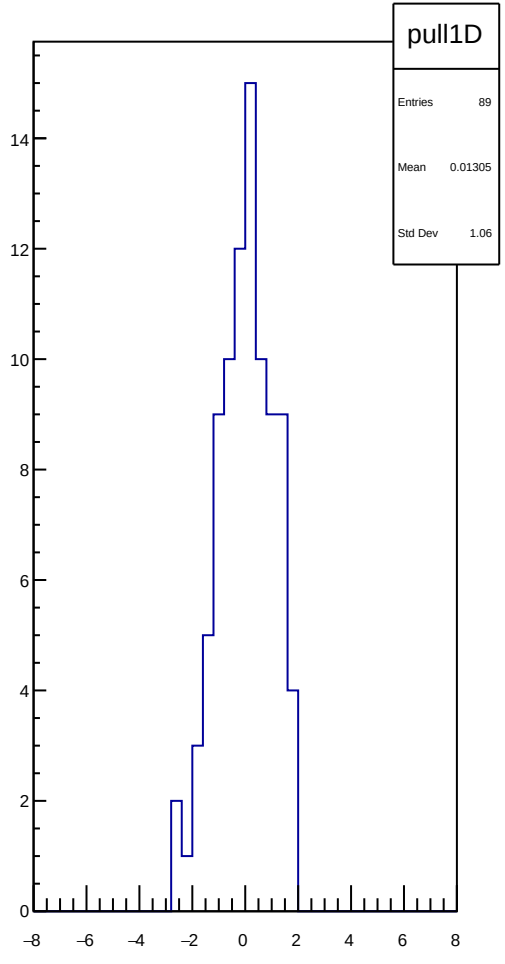

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5744 / 88
p0 592.9 ± 0.4438
750
700
650
600
550
500

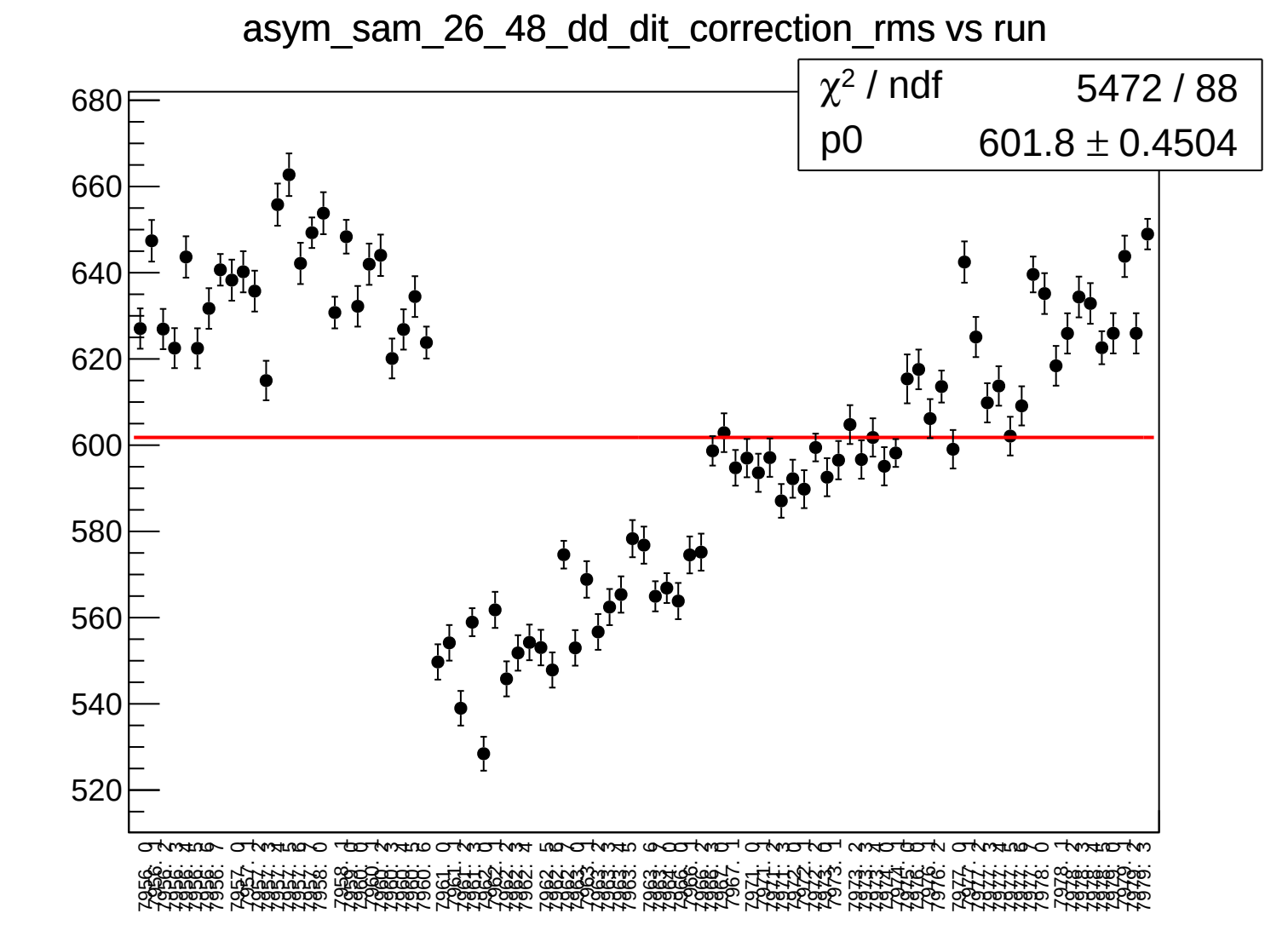

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 101.6 / 88
p0 78.01 ± 115
pull
Entries 89
Mean 467.8
Std Dev 0

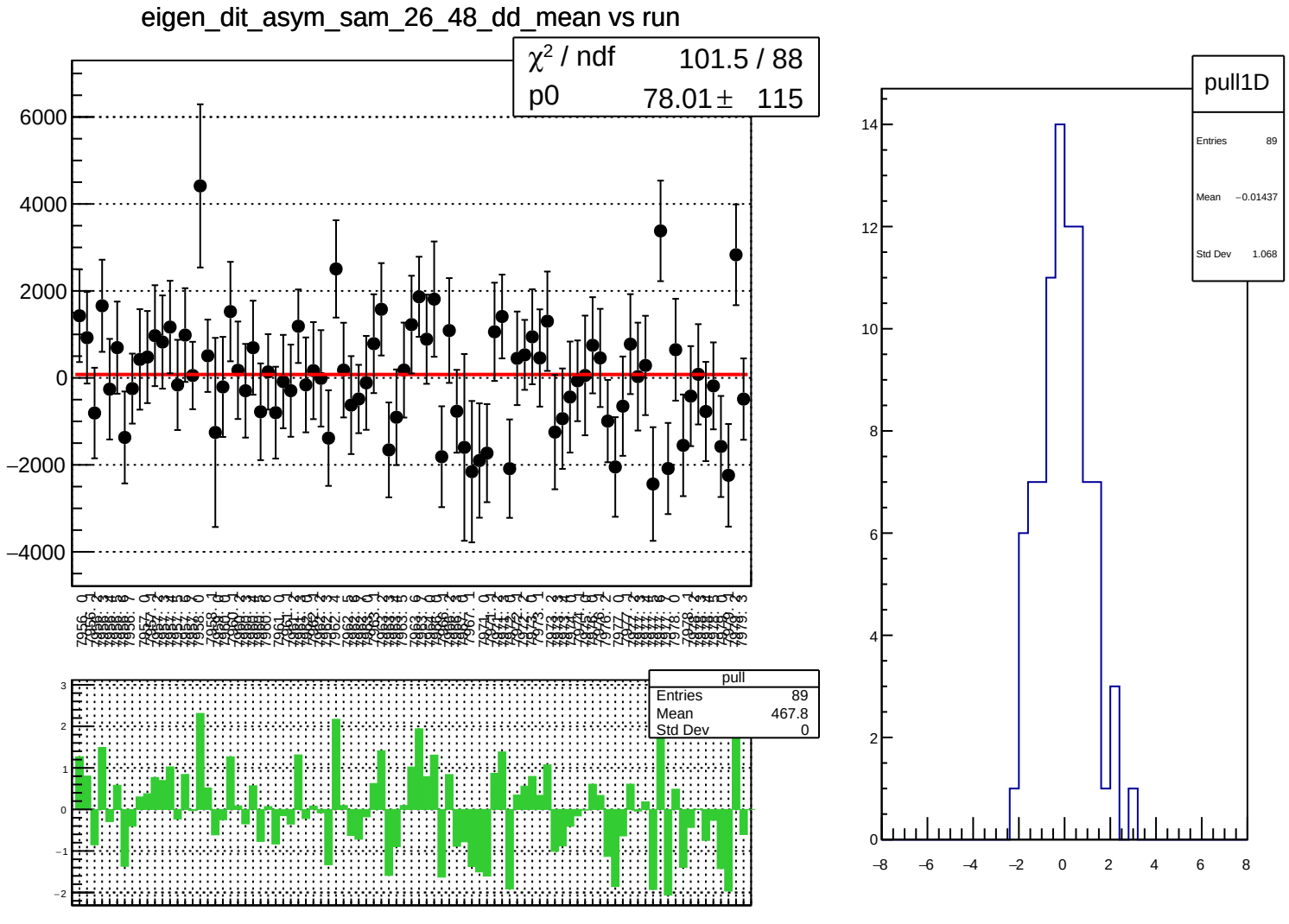

pull1D
Entries 89
Mean −0.01438
Std Dev 1.068

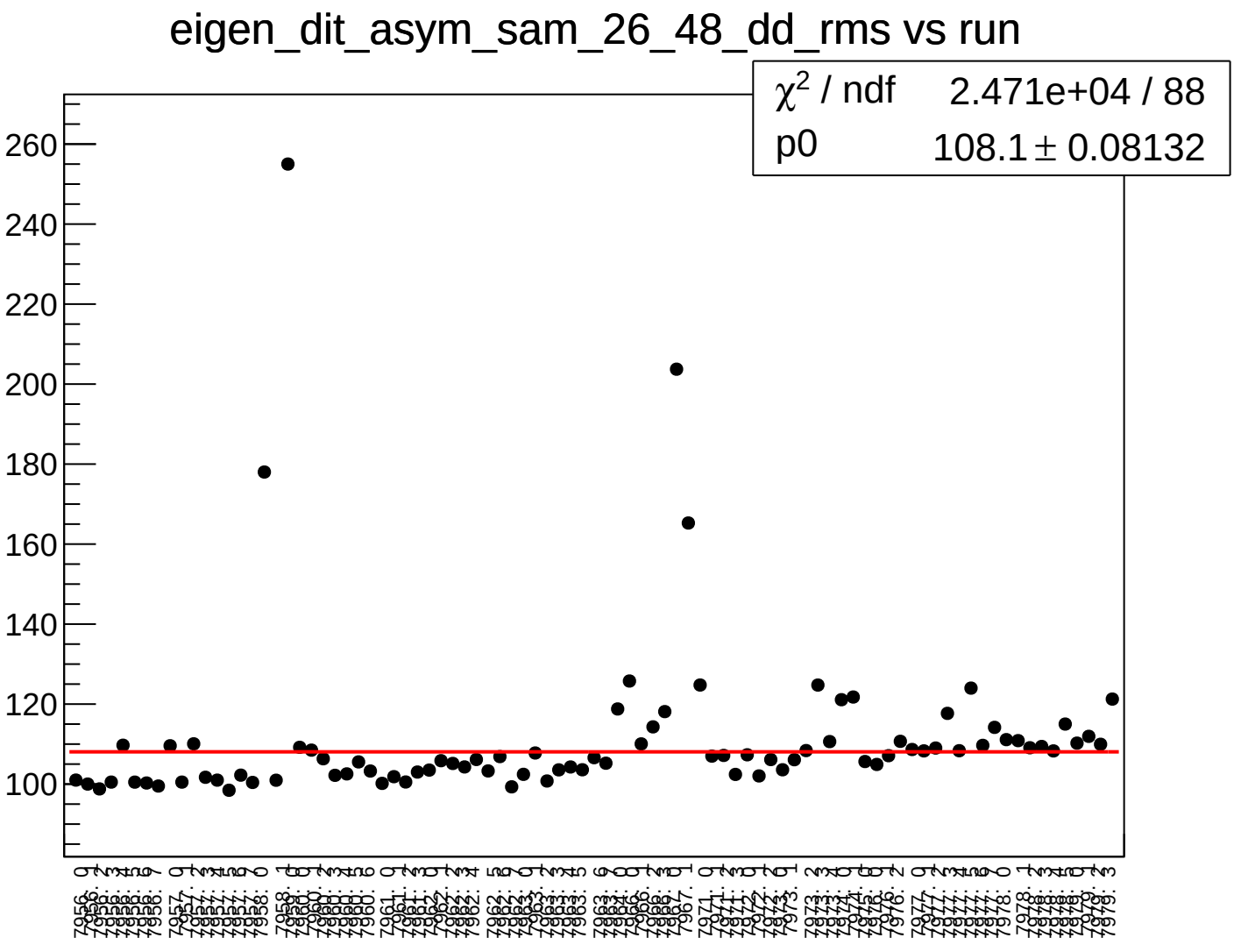

dit_asym_sam_26_48_dd_rms vs run
$\chi^2$ / ndf 2.471e+04 / 88
p0 108.1 ± 0.08132
260
240
220
200
180
160
140
120
100

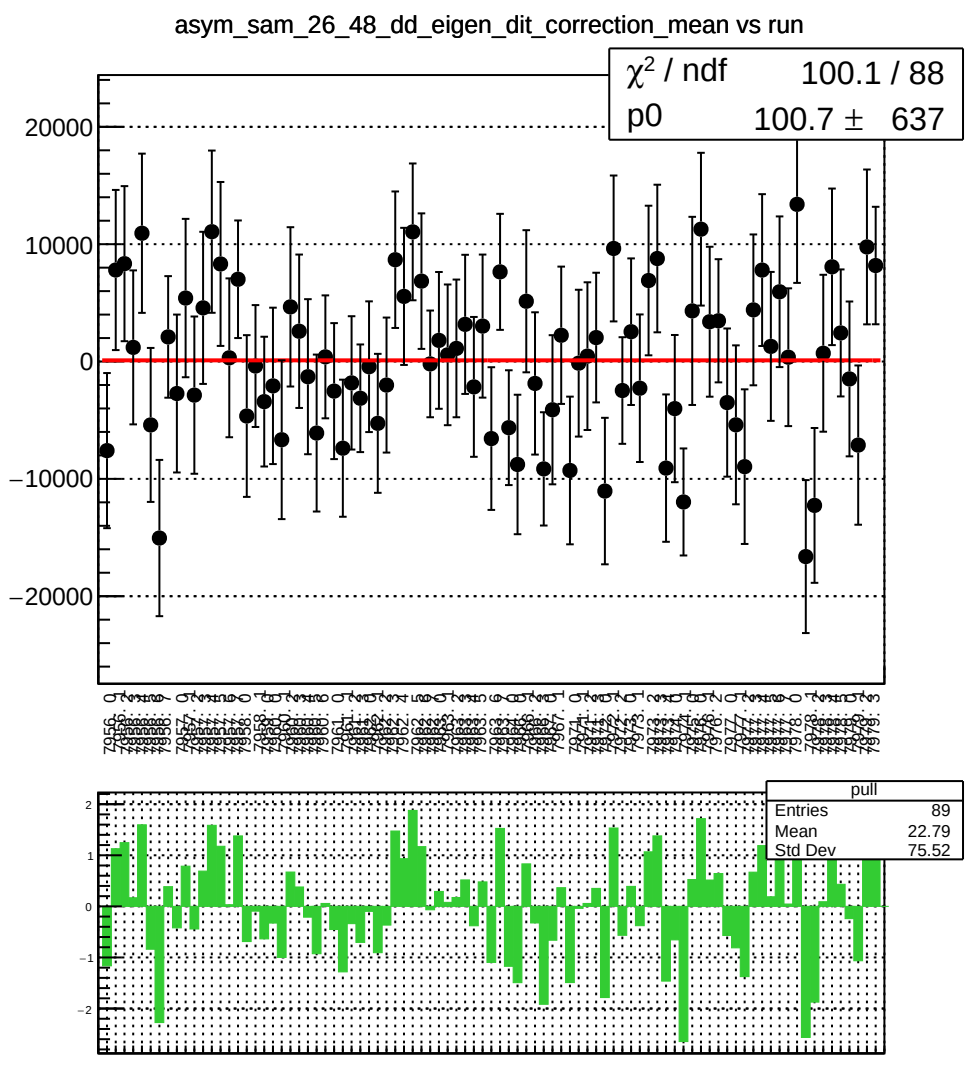

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 100.1 / 88
p0 100.7 ± 637
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 22.79
Std Dev 75.52
2
1
0
−1
−2

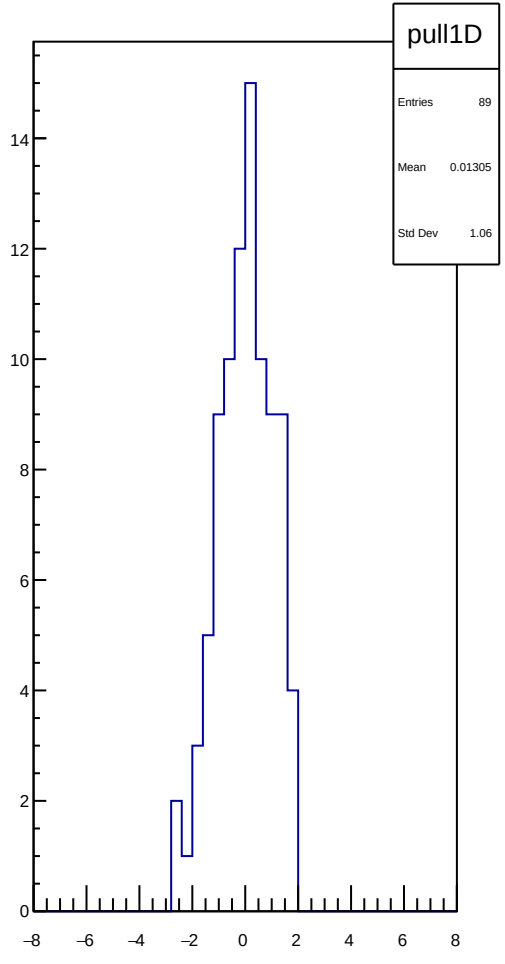

pull1D
Entries 89
Mean 0.01305
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

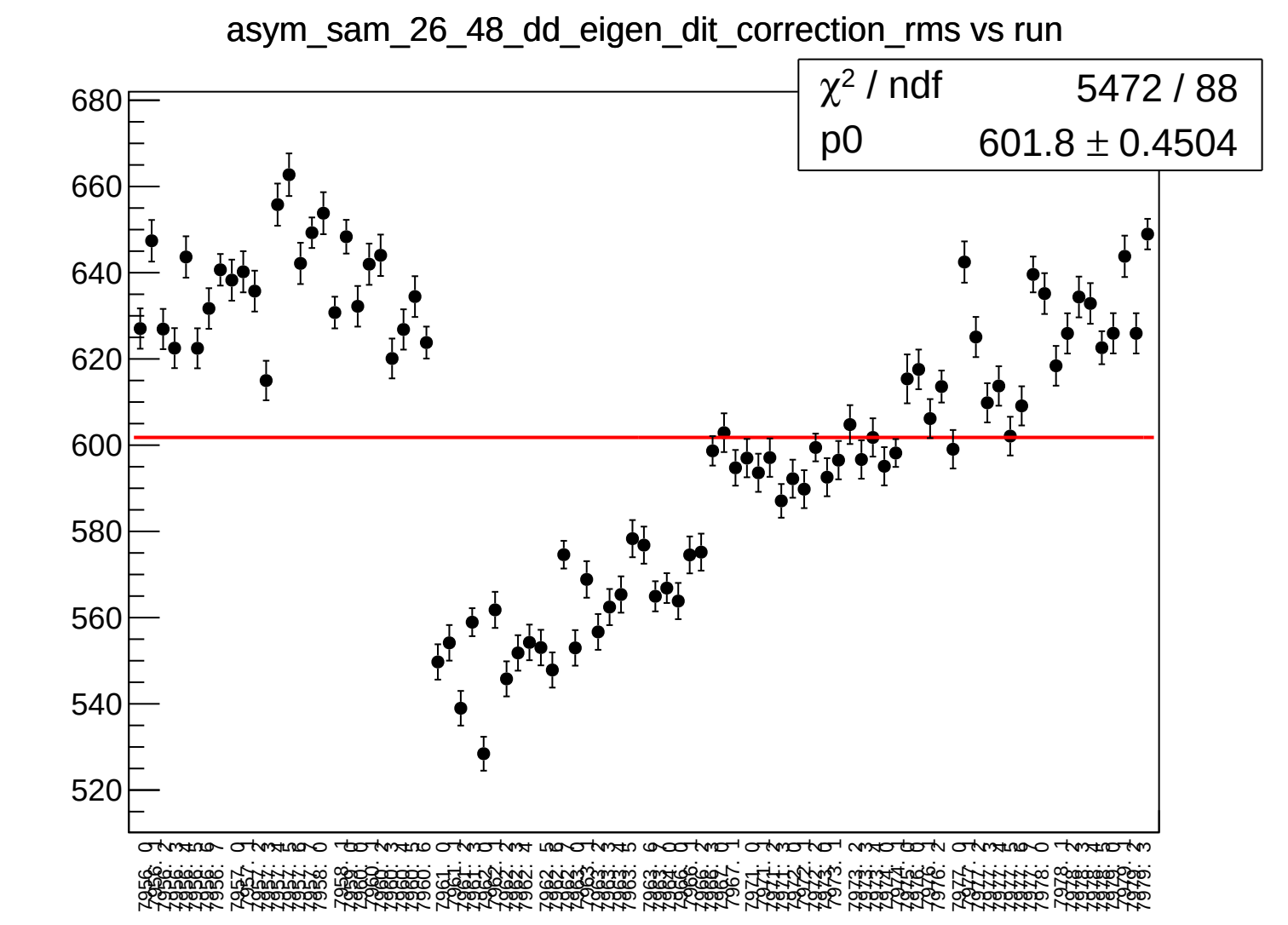

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 5472 / 88
p0 601.8 ± 0.4504
680
660
640
620
600
580
560
540
520

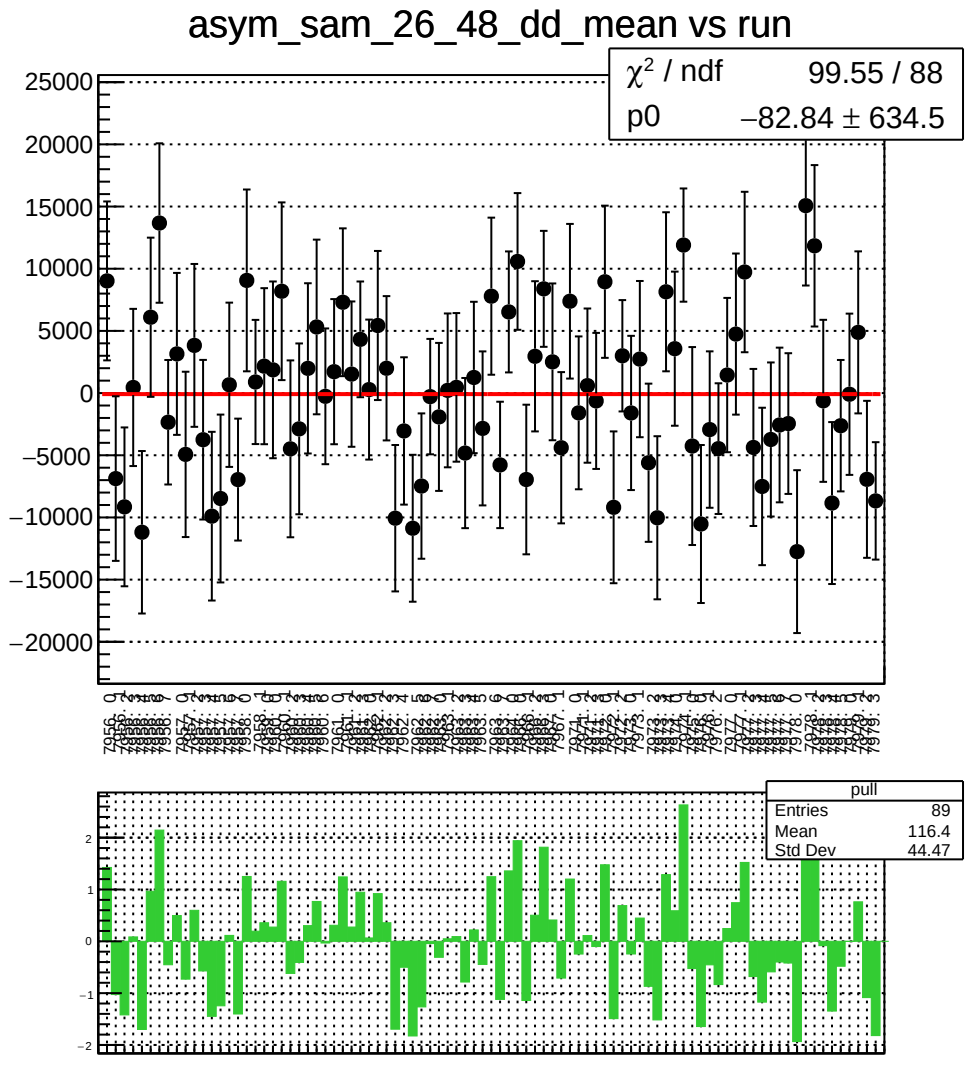

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 101.5 / 88
p0 78.01 ± 115
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 467.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01437
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

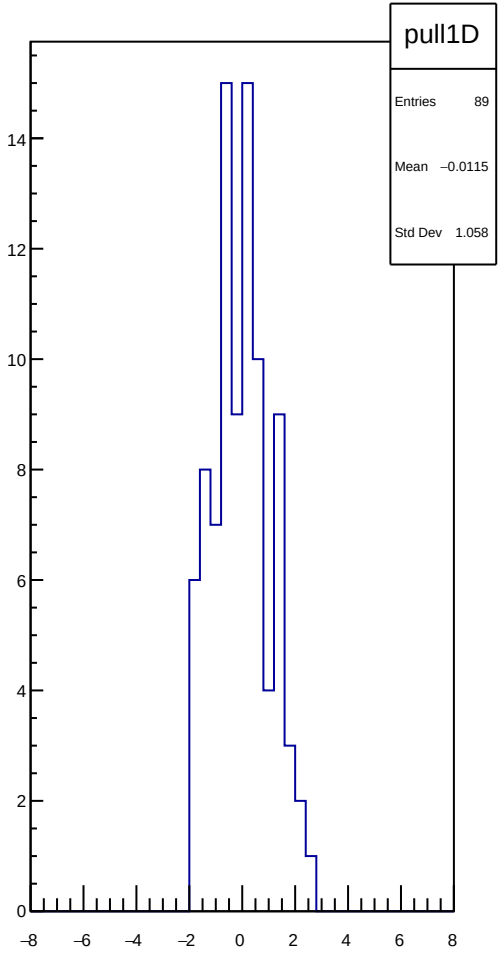

eigen_dit_asym_sam_26_48_dd_rms vs run
$\chi^2$ / ndf 2.471e+04 / 88
p0 108.1 ± 0.08132
260
240
220
200
180
160
140
120
100

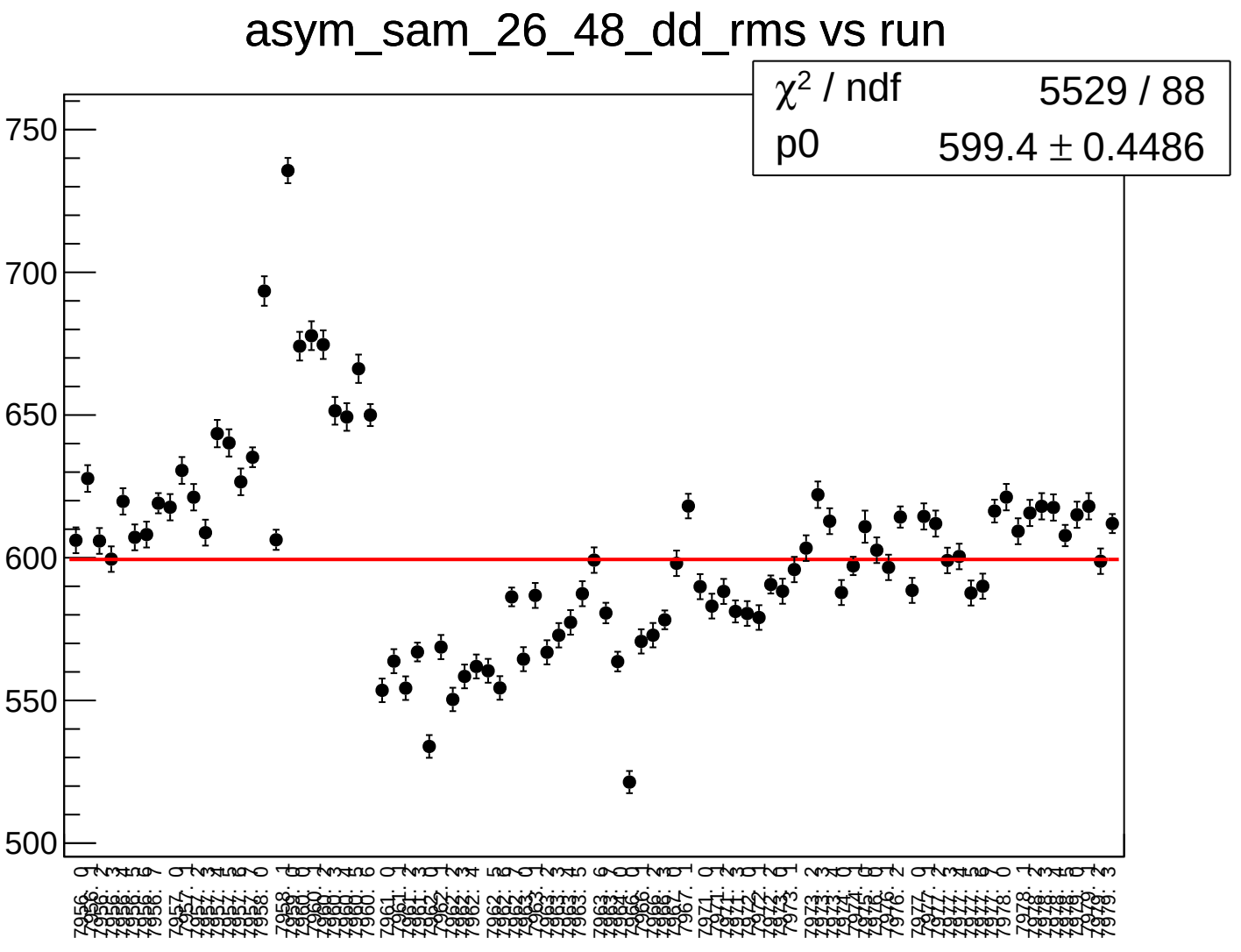

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.1 / 88
p0 100.7 ± 637
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 22.79
Std Dev 75.52
2
1
0
−1
−2

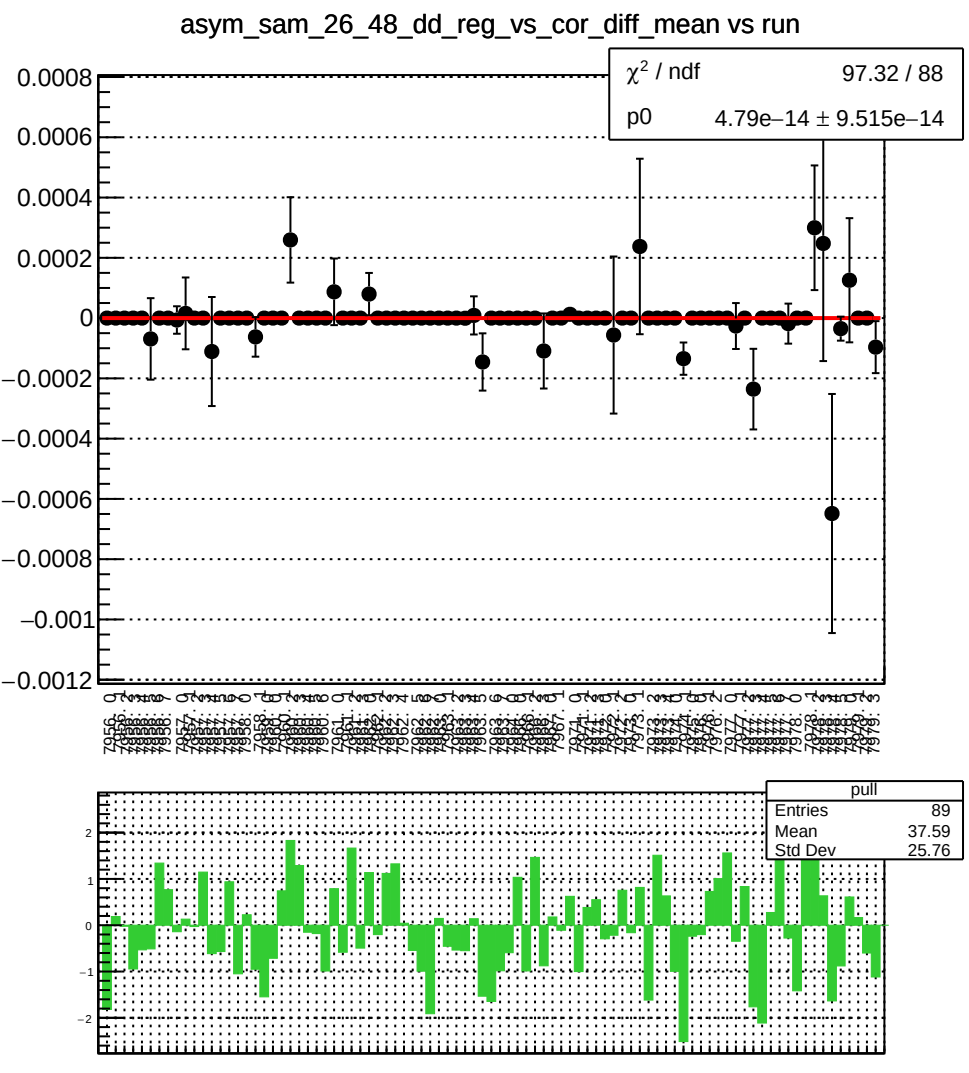

pull1D
Entries 89
Mean 0.01305
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

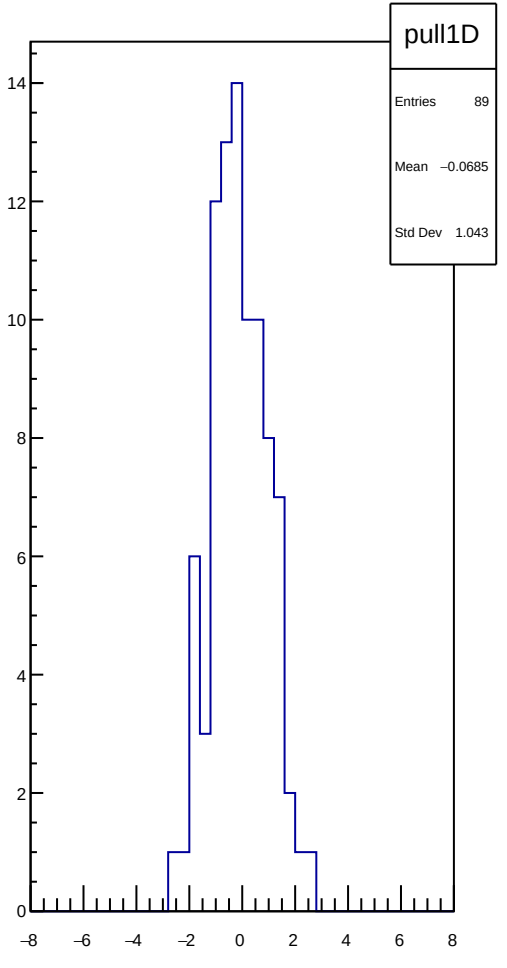

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5472 / 88
p0 601.8 ± 0.4504
680
660
640
620
600
580
560
540
520

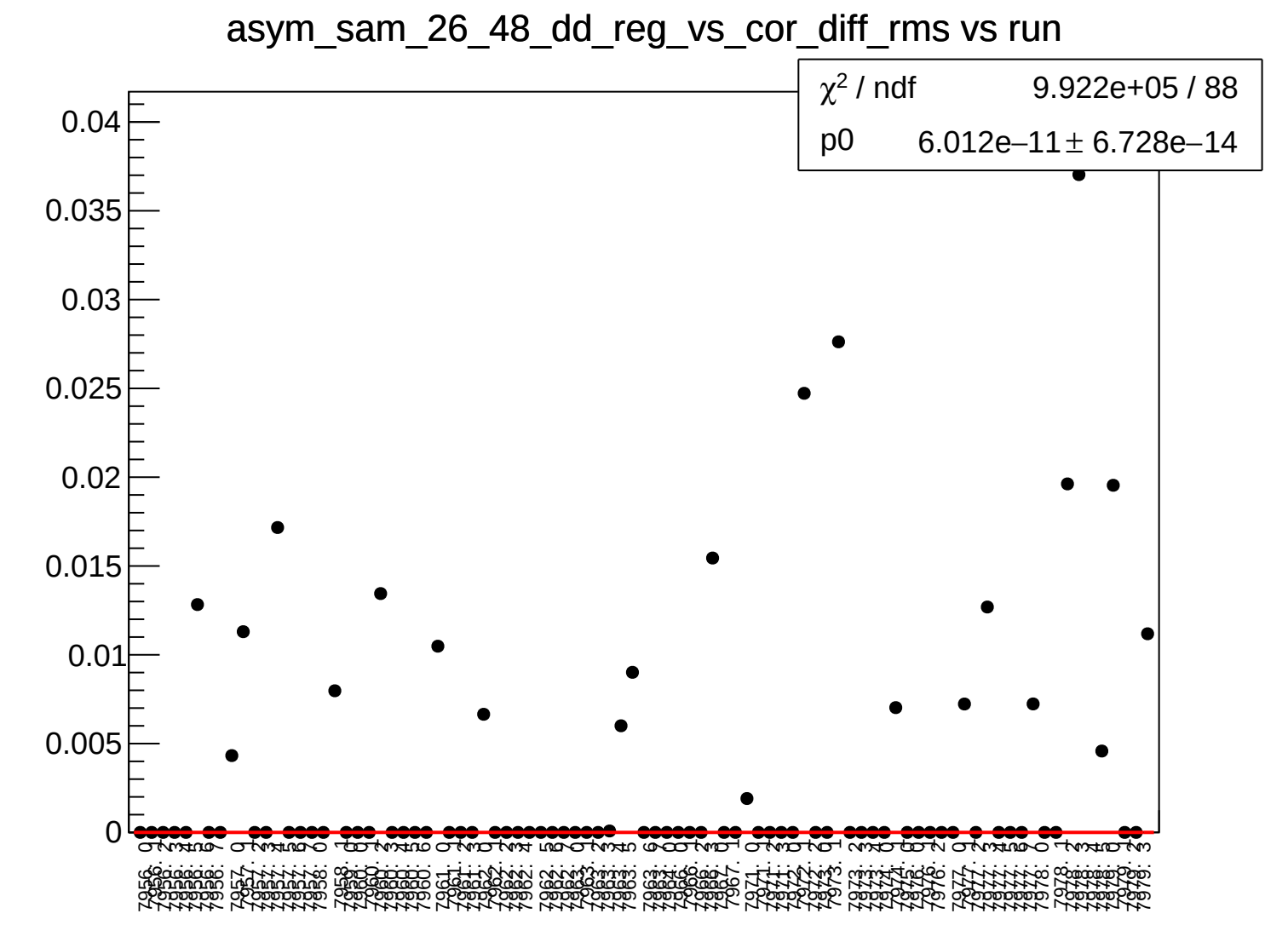

asym_sam_26_48_dd_mean vs run
χ² / ndf 99.55 / 88
p0 −82.84 ± 634.5
pull
Entries 89
Mean 116.4
Std Dev 44.47

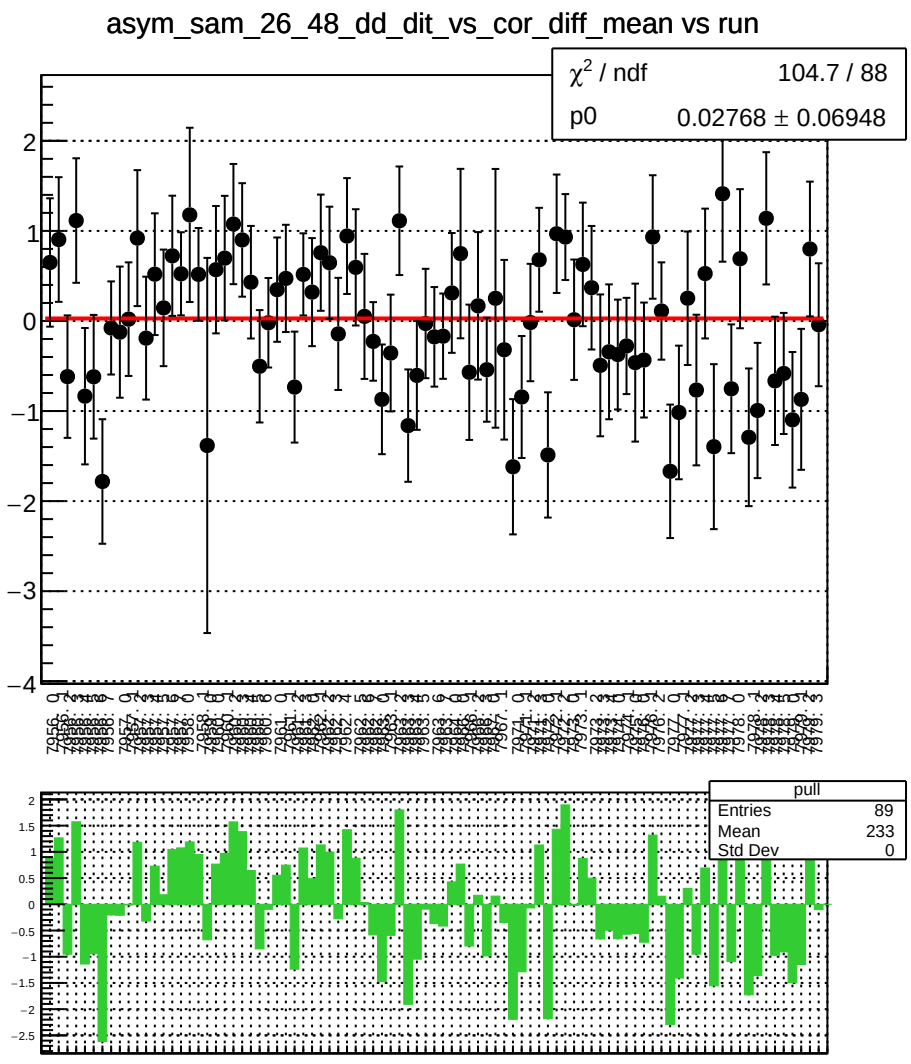

pull1D
Entries 89
Mean −0.0115
Std Dev 1.058

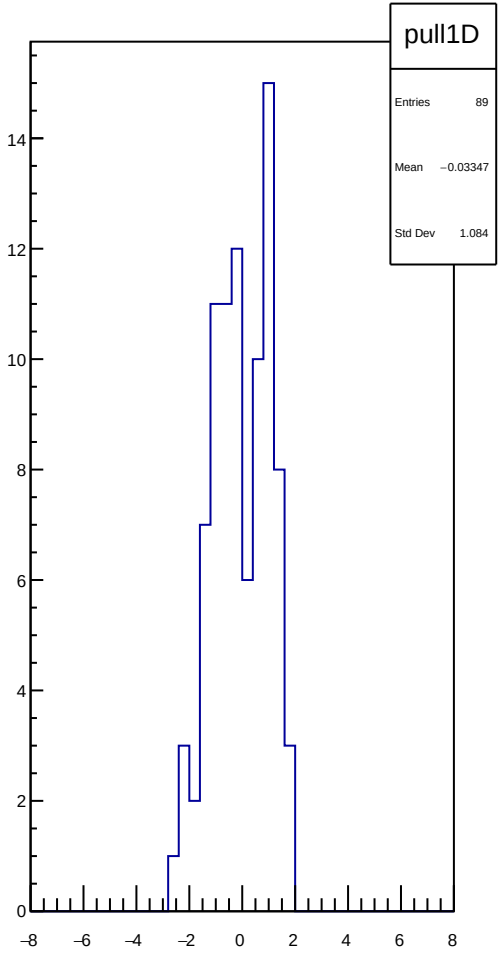

asym_sam_26_48_dd_rms vs run
χ² / ndf 5529 / 88
p0 599.4 ± 0.4486
750
700
650
600
550
500

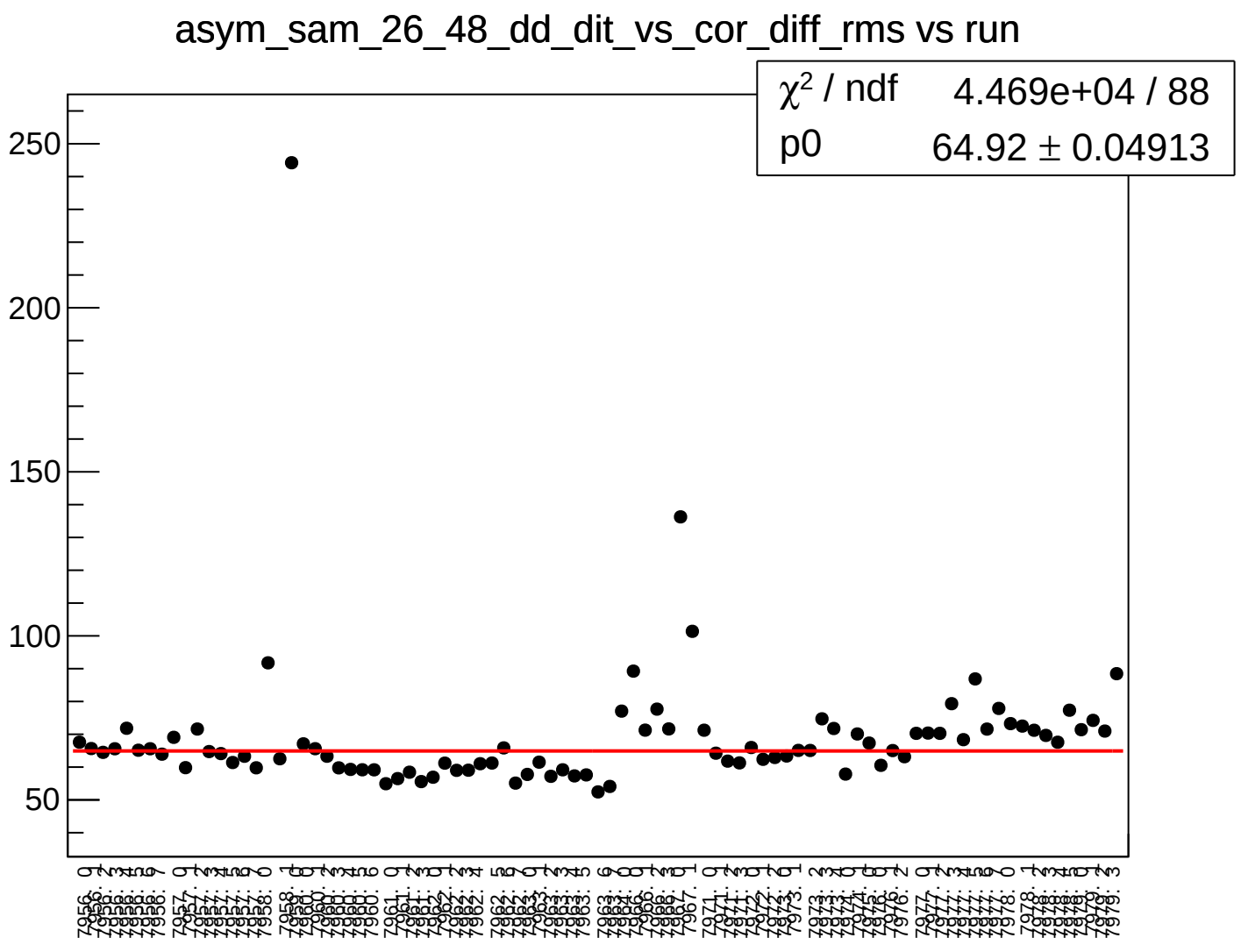

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.32 / 88
p0 4.79e−14 ± 9.515e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 89
Mean 37.59
Std Dev 25.76
2
1
0
−1
−2

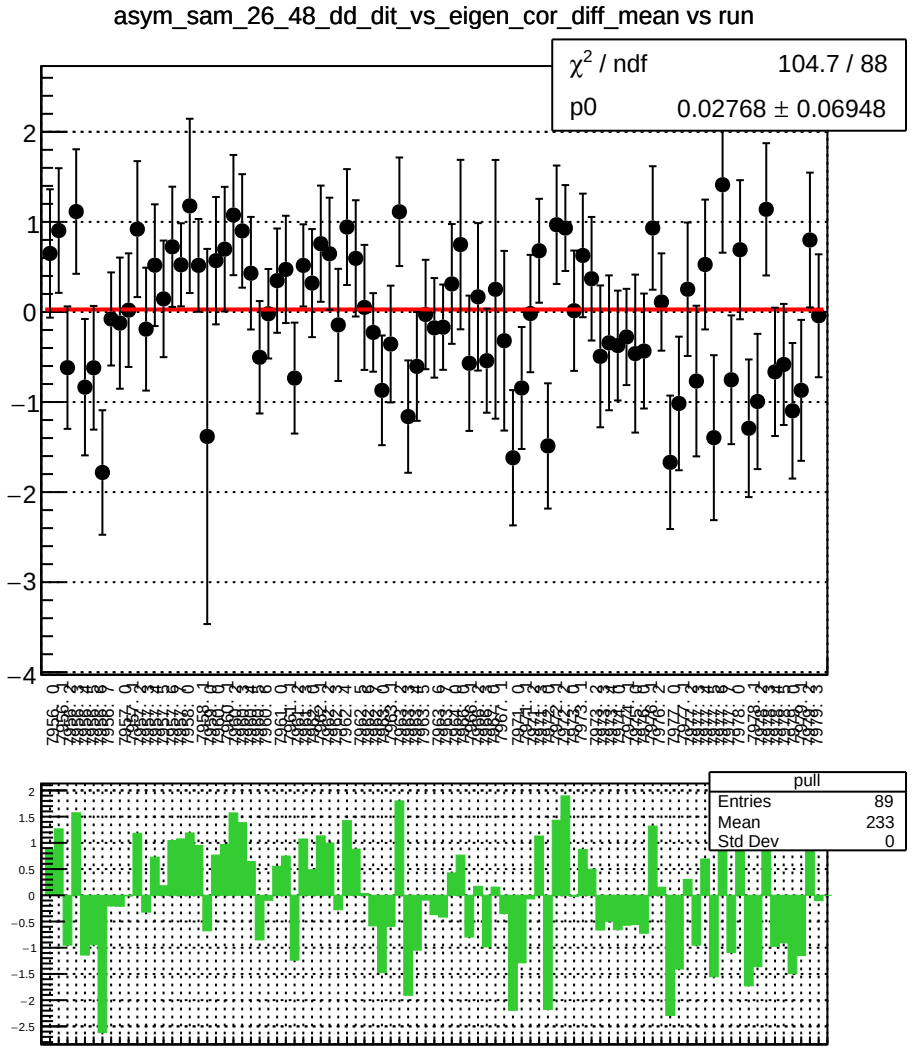

pull1D
Entries 89
Mean −0.0685
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

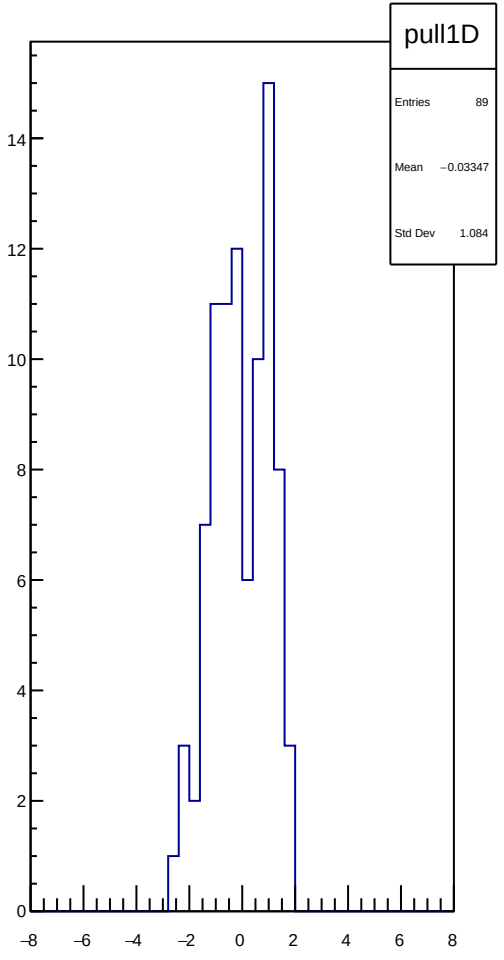

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.922e+05 / 88
p0 6.012e−11 ± 6.728e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

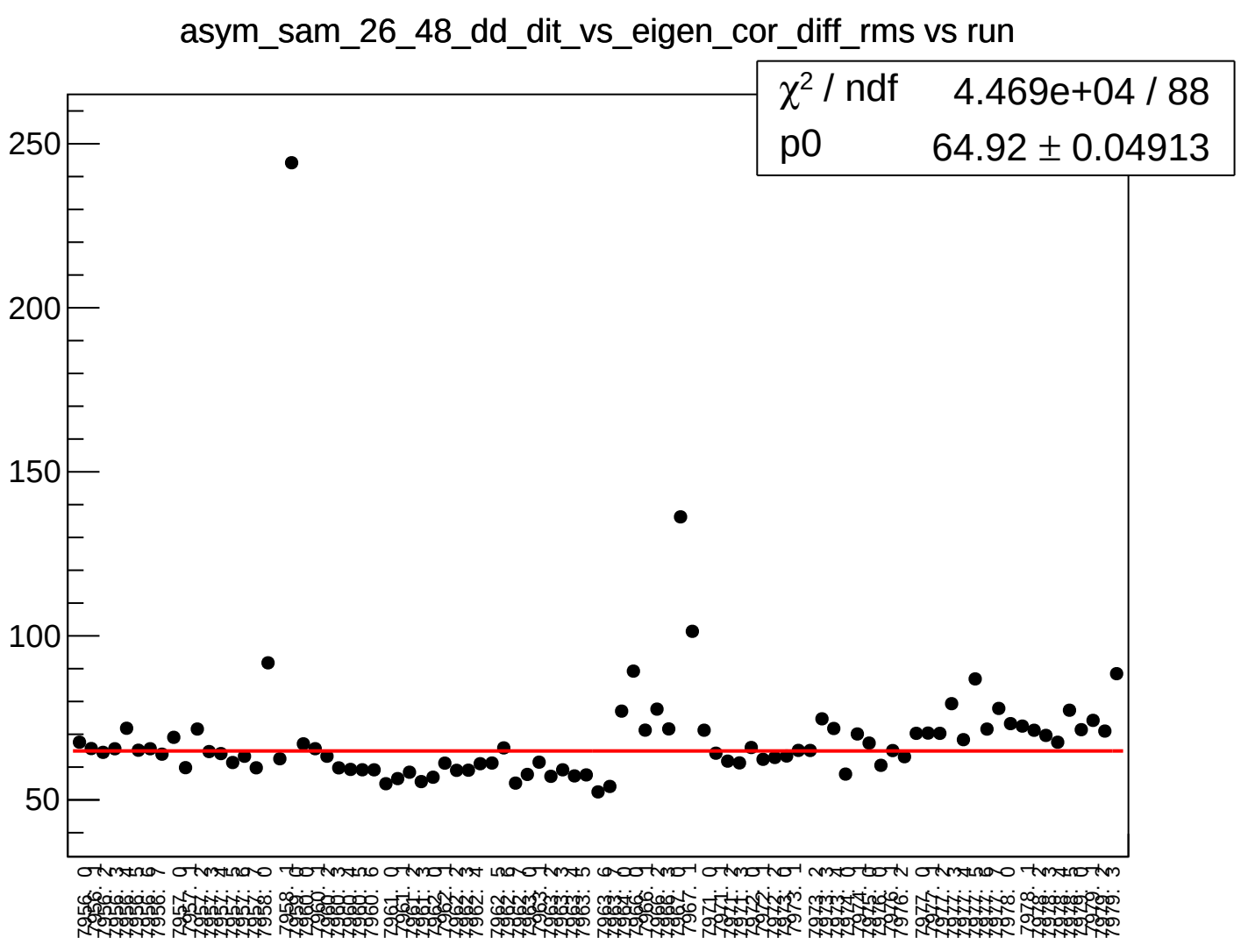

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 88
p0 0.02768 ± 0.06948
pull
Entries 89
Mean 233
Std Dev 0

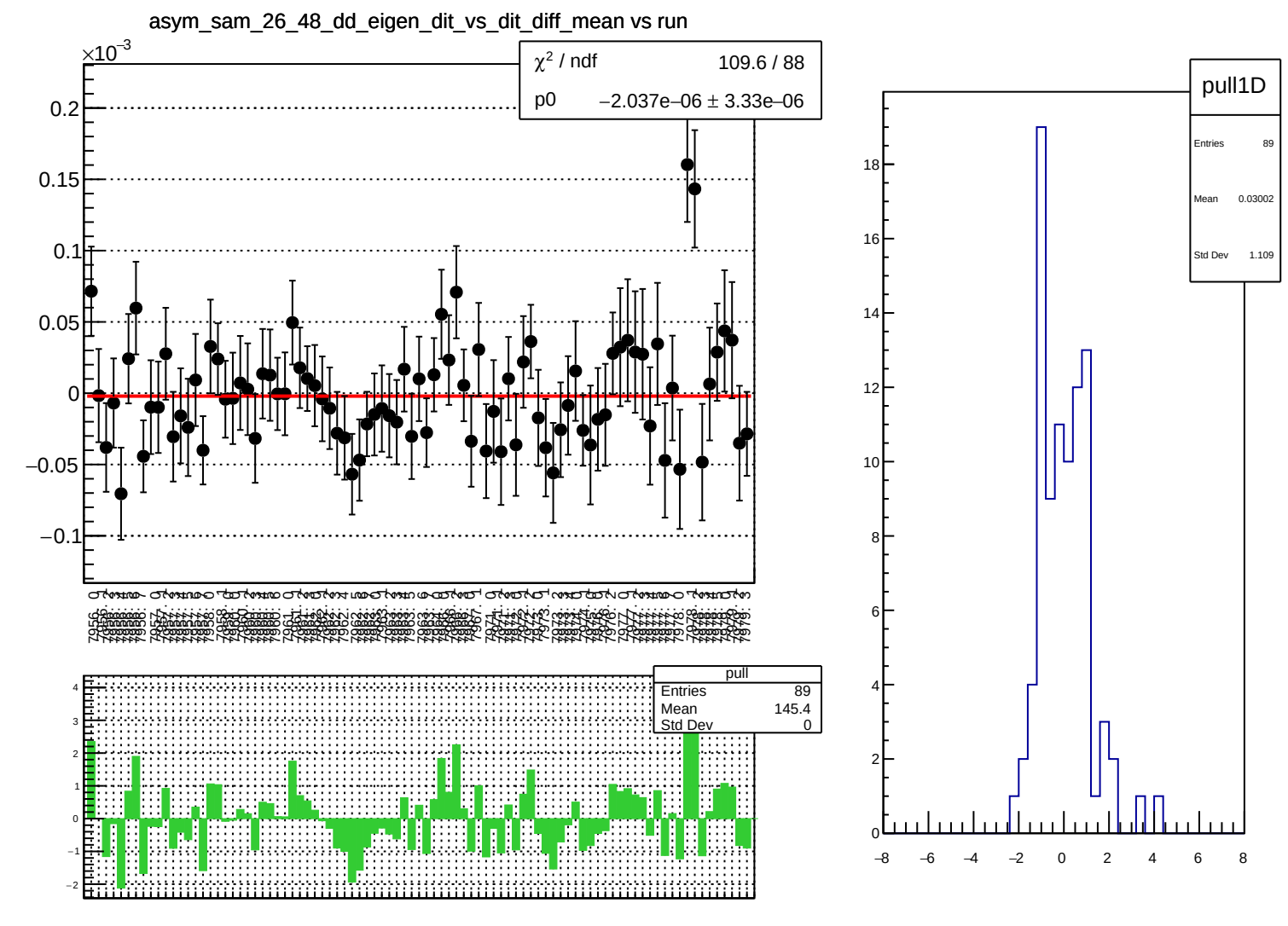

pull1D
Entries 89
Mean −0.03347
Std Dev 1.084

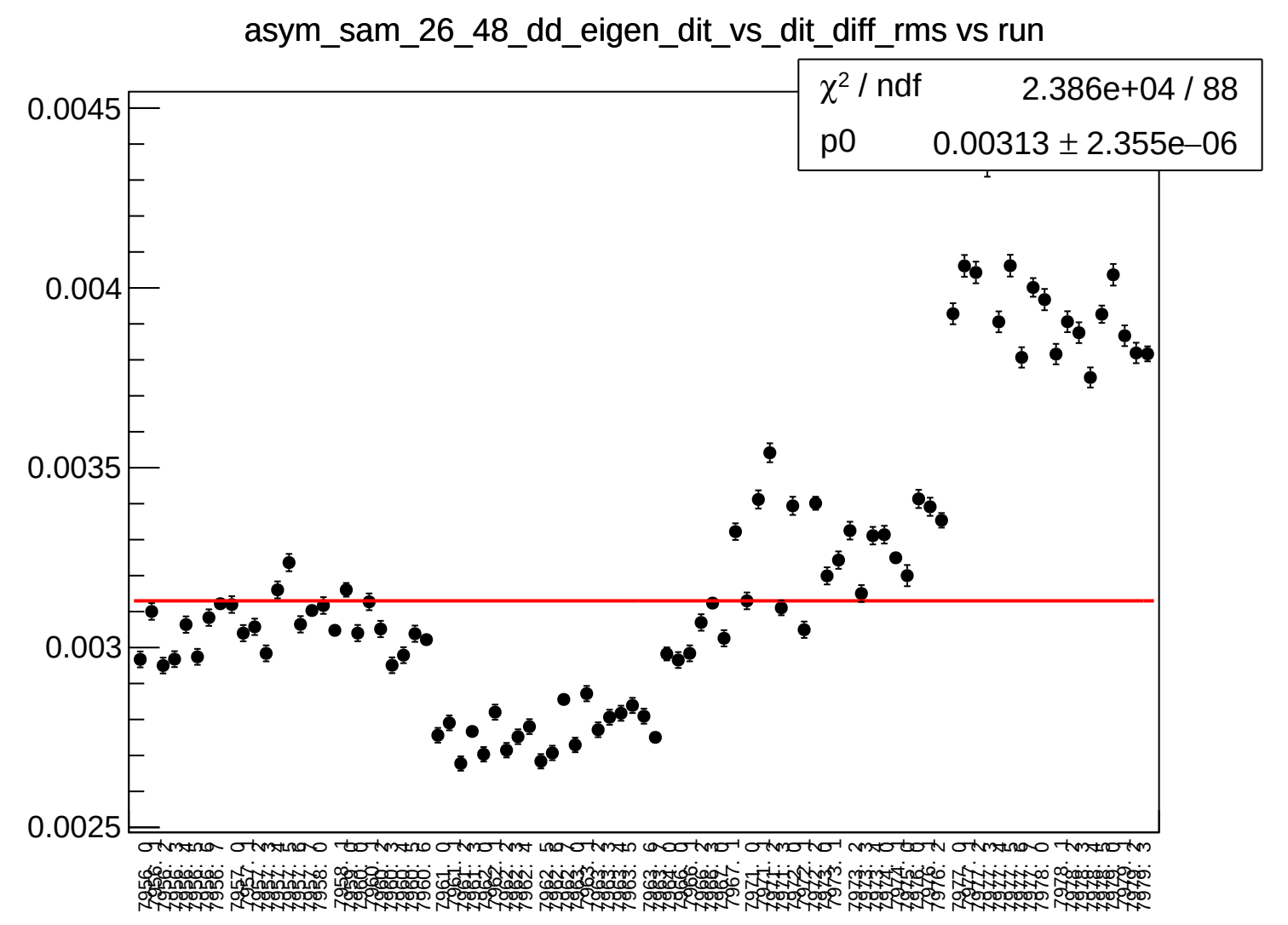

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.469e+04 / 88
p0 64.92 ± 0.04913
250
200
150
100
50

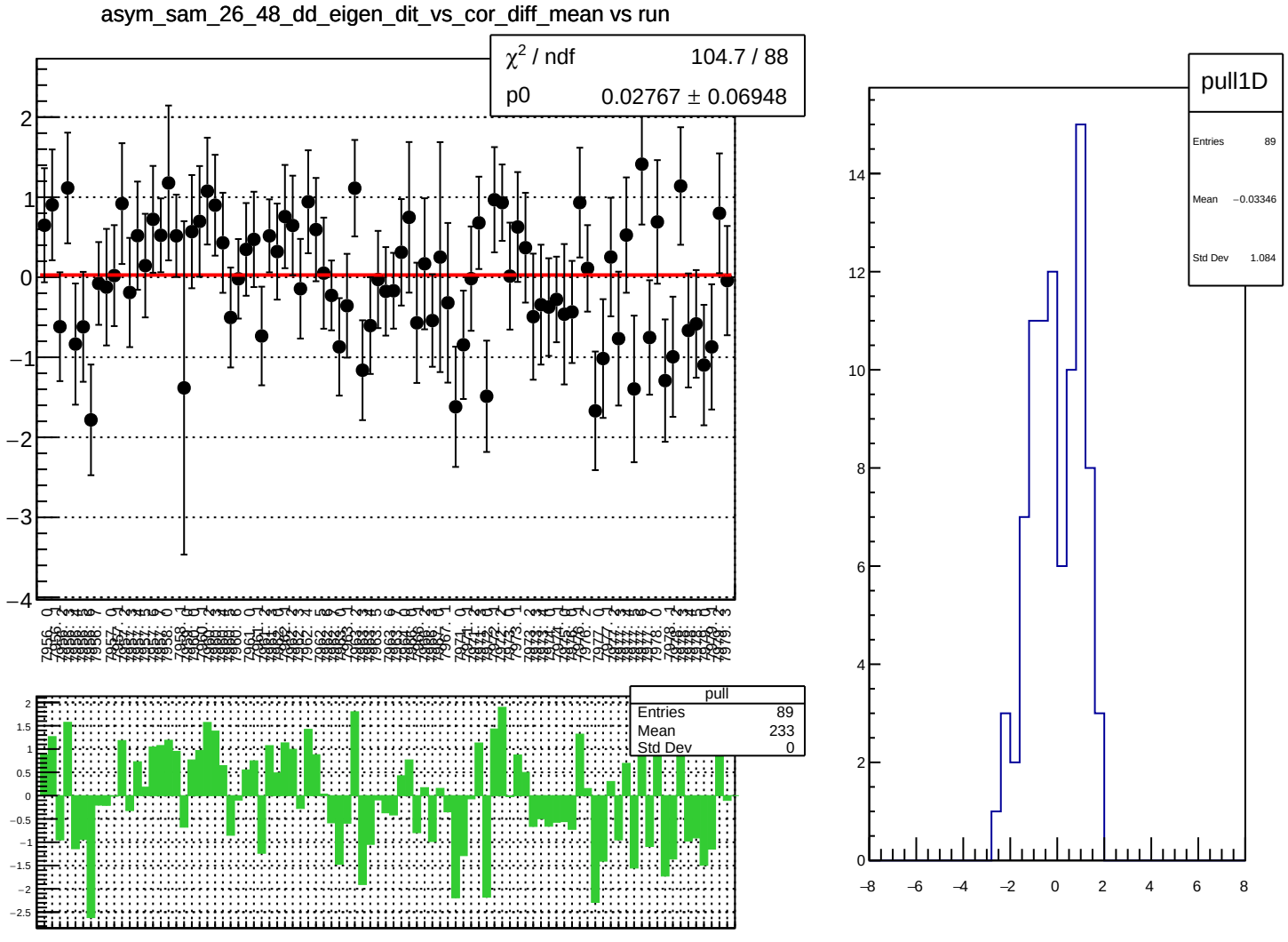

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 88
p0 0.02768 ± 0.06948
pull
Entries 89
Mean 233
Std Dev 0

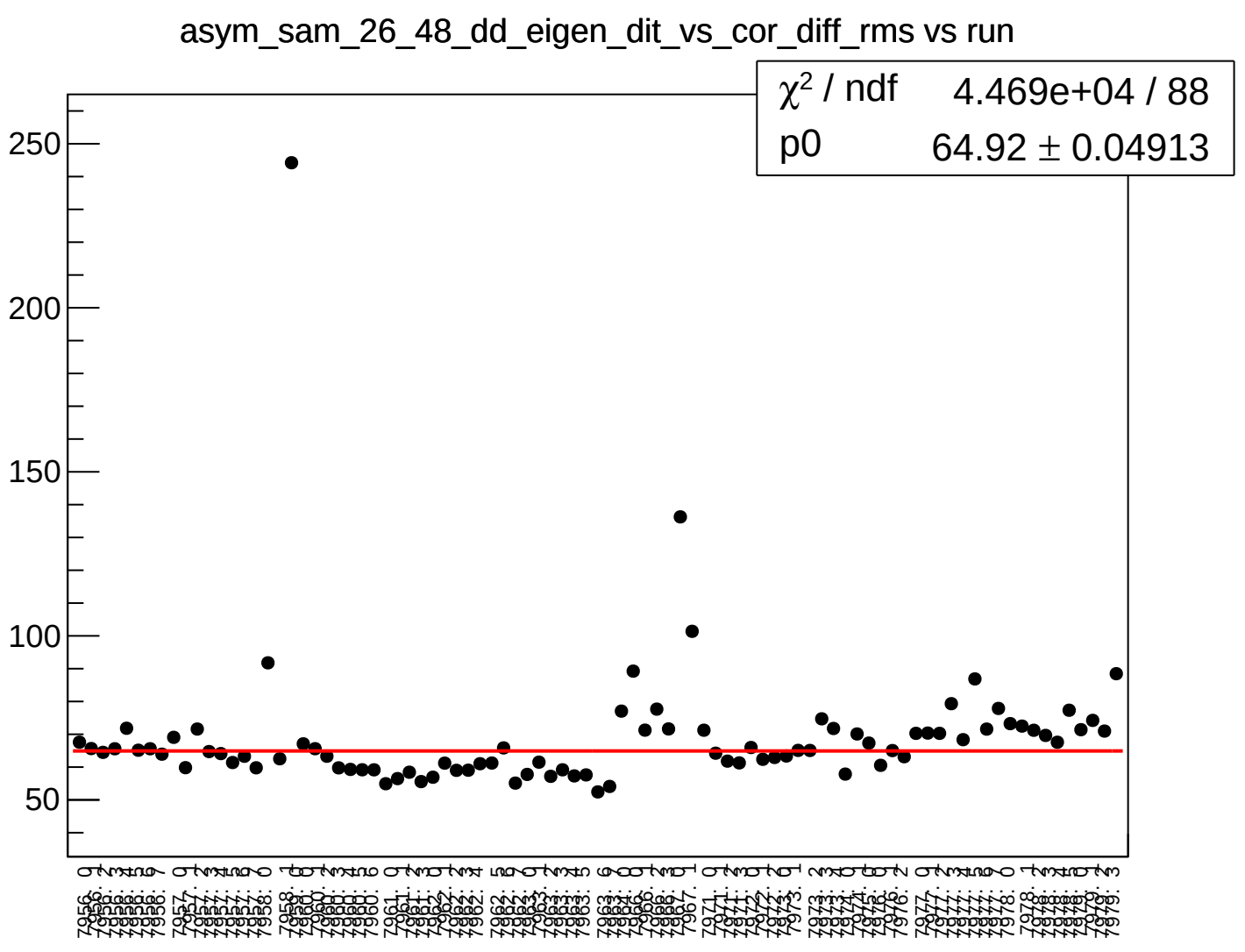

pull1D
Entries 89
Mean −0.03347
Std Dev 1.084

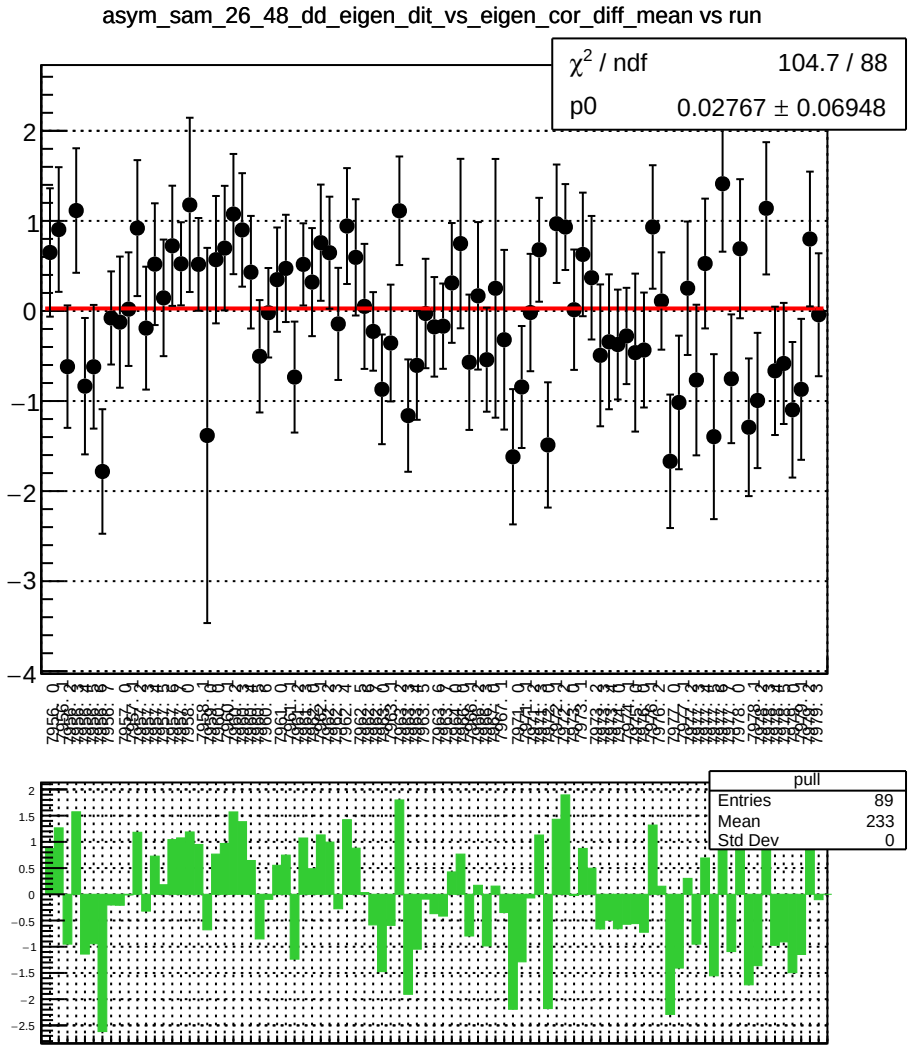

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.469e+04 / 88
p0 64.92 ± 0.04913
250
200
150
100
50

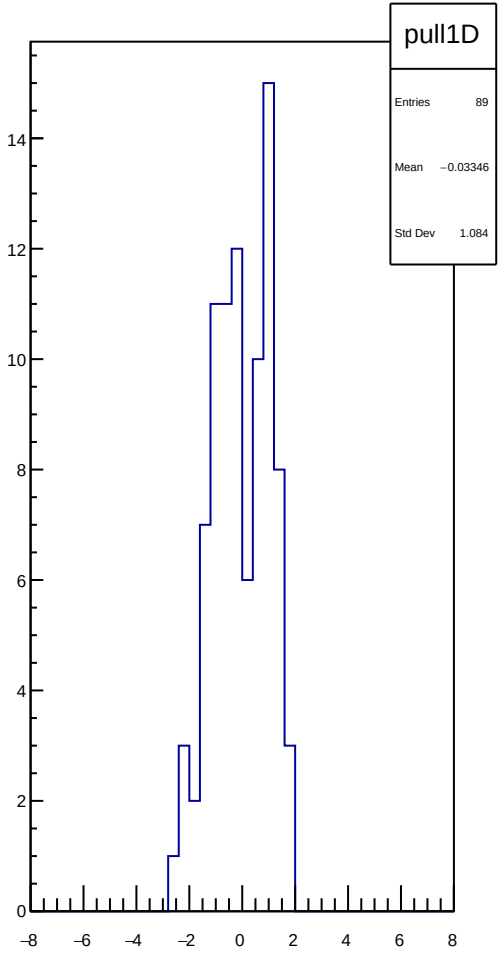

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.6 / 88
p0 −2.037e−06 ± 3.33e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 145.4
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.03002
Std Dev 1.109
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

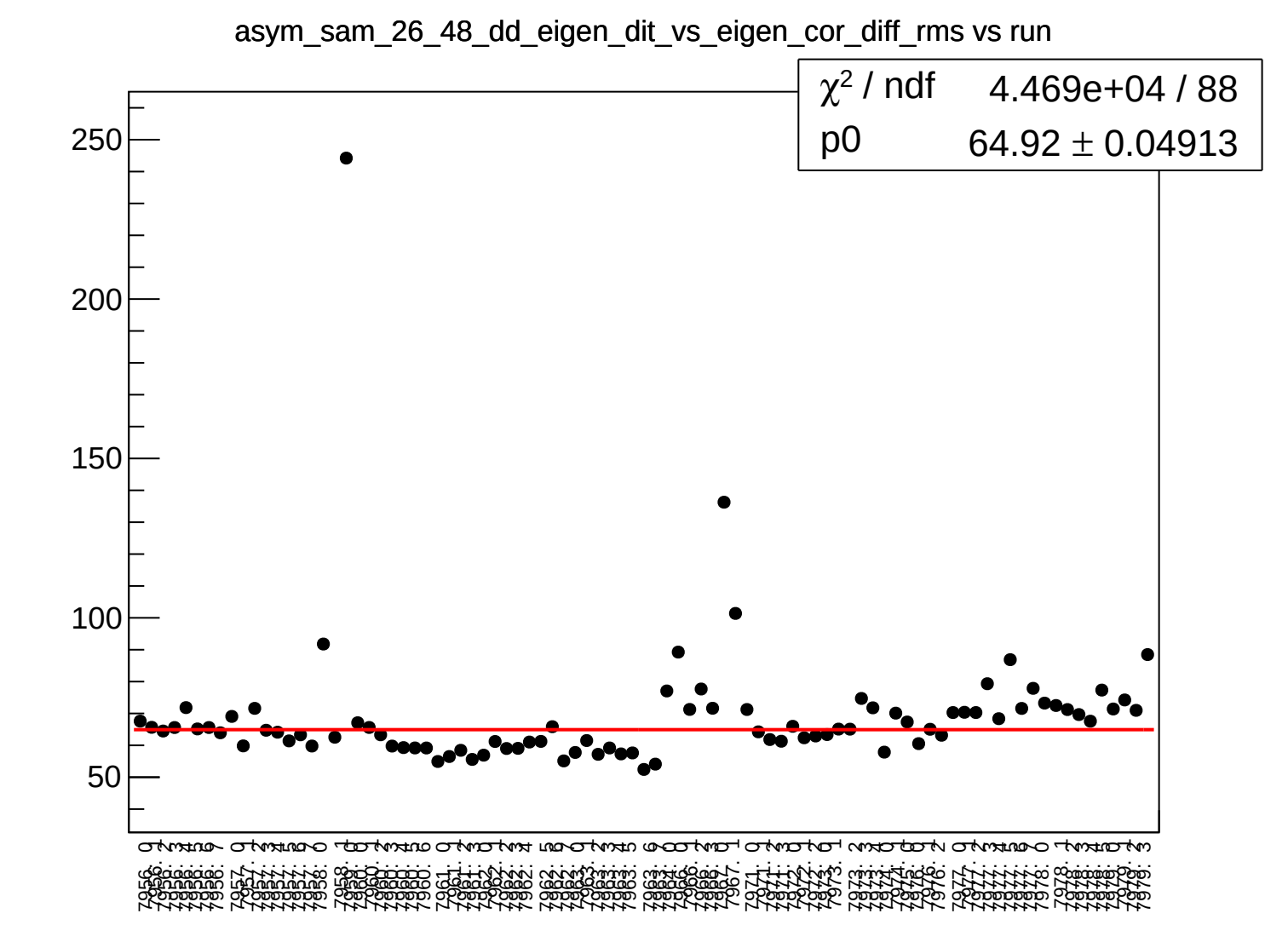

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.386e+04 / 88
p0 0.00313 ± 2.355e−06
0.0045
0.004
0.0035
0.003
0.0025

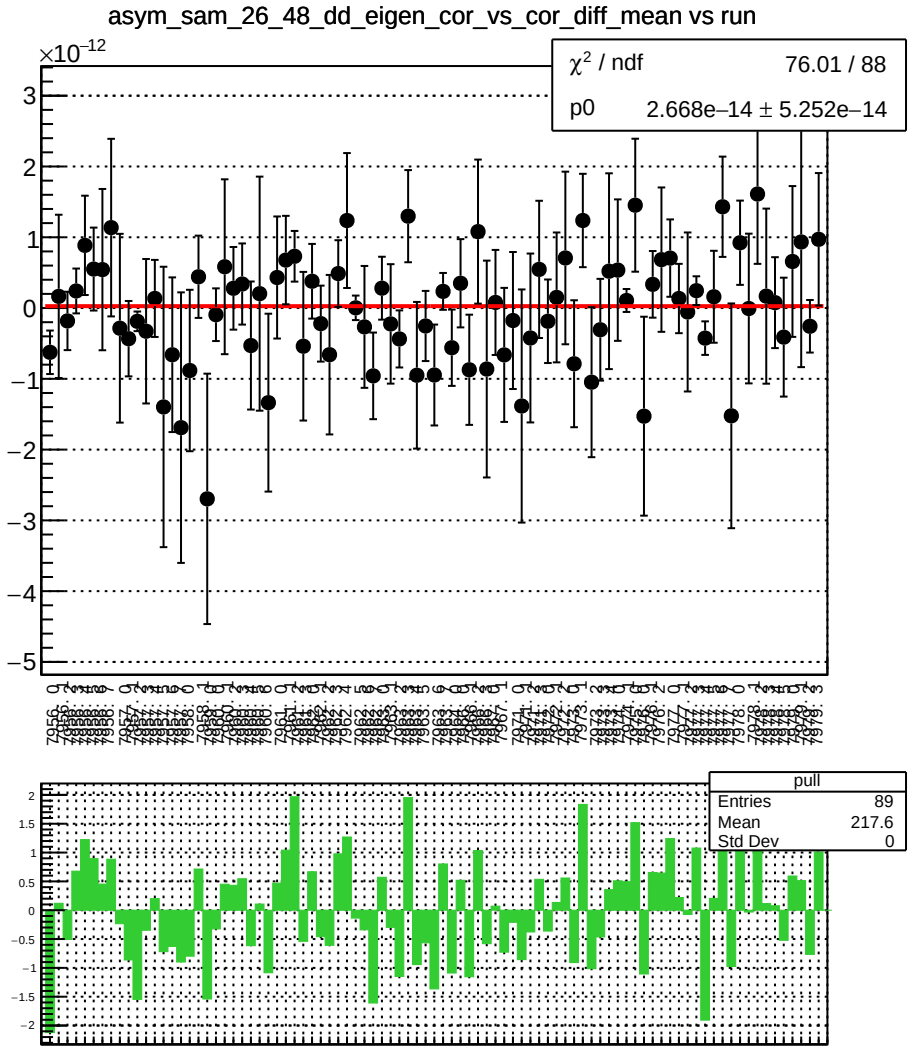

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 88
p0 0.02767 ± 0.06948
pull
Entries 89
Mean 233
Std Dev 0
pull1D
Entries 89
Mean −0.03346
Std Dev 1.084

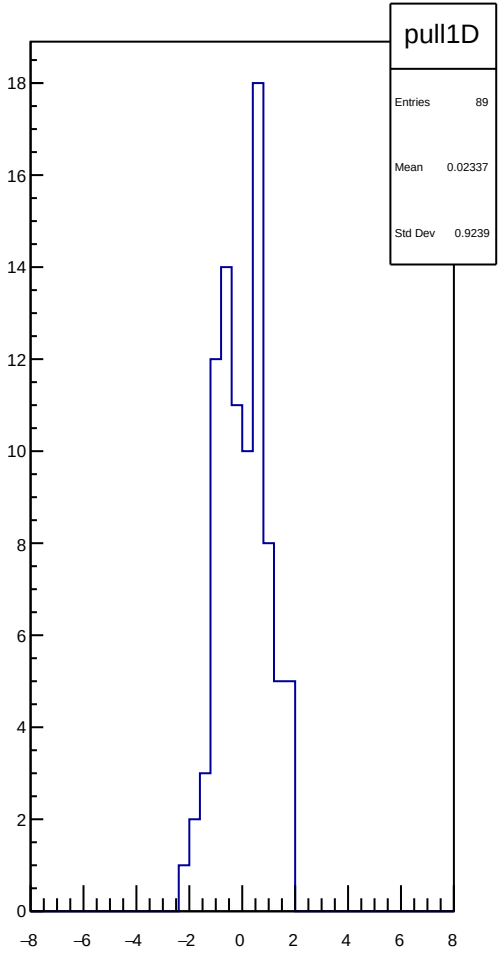

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.469e+04 / 88
p0 64.92 ± 0.04913
250
200
150
100
50

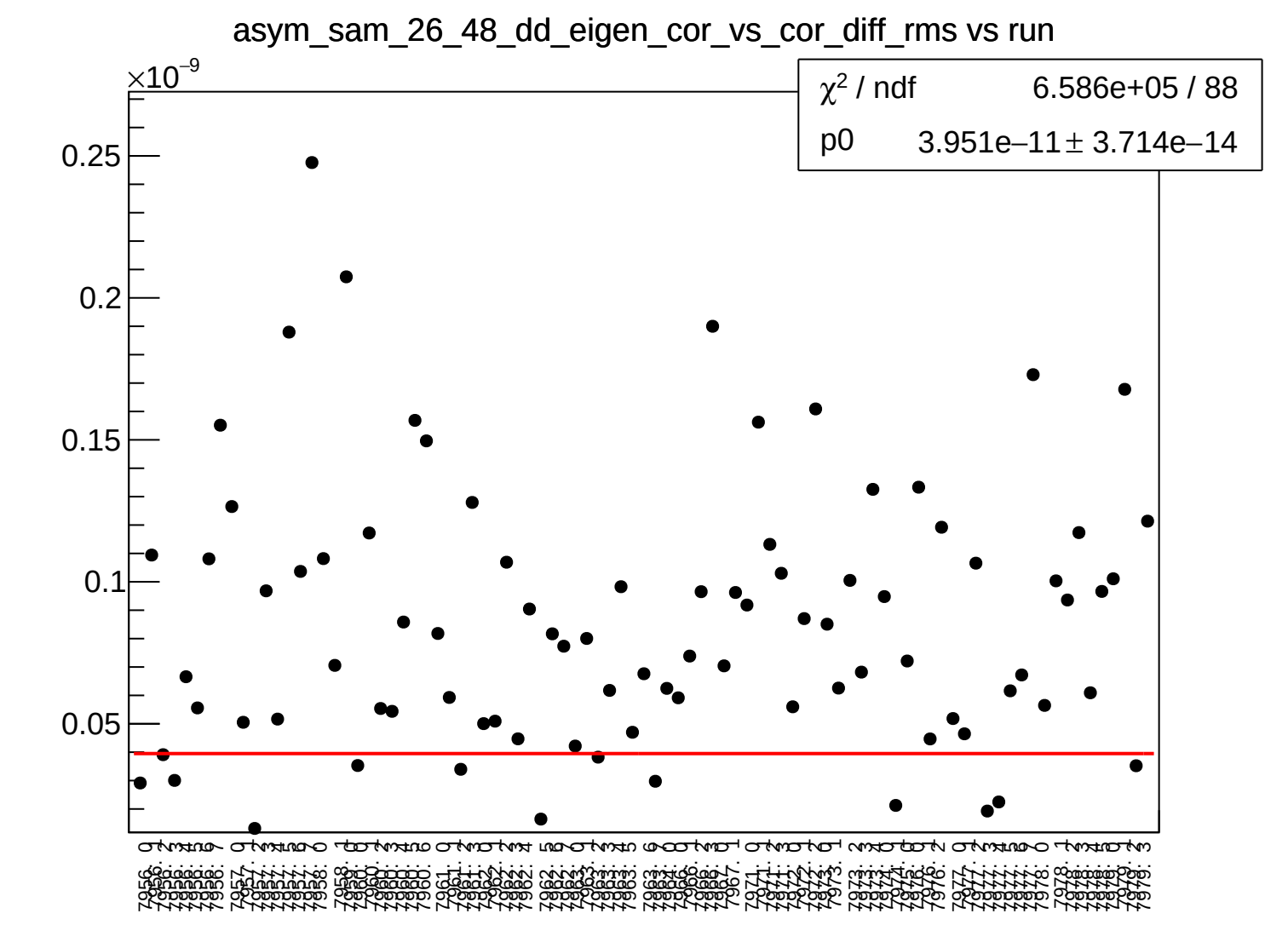

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 88
p0 0.02767 ± 0.06948
pull
Entries 89
Mean 233
Std Dev 0

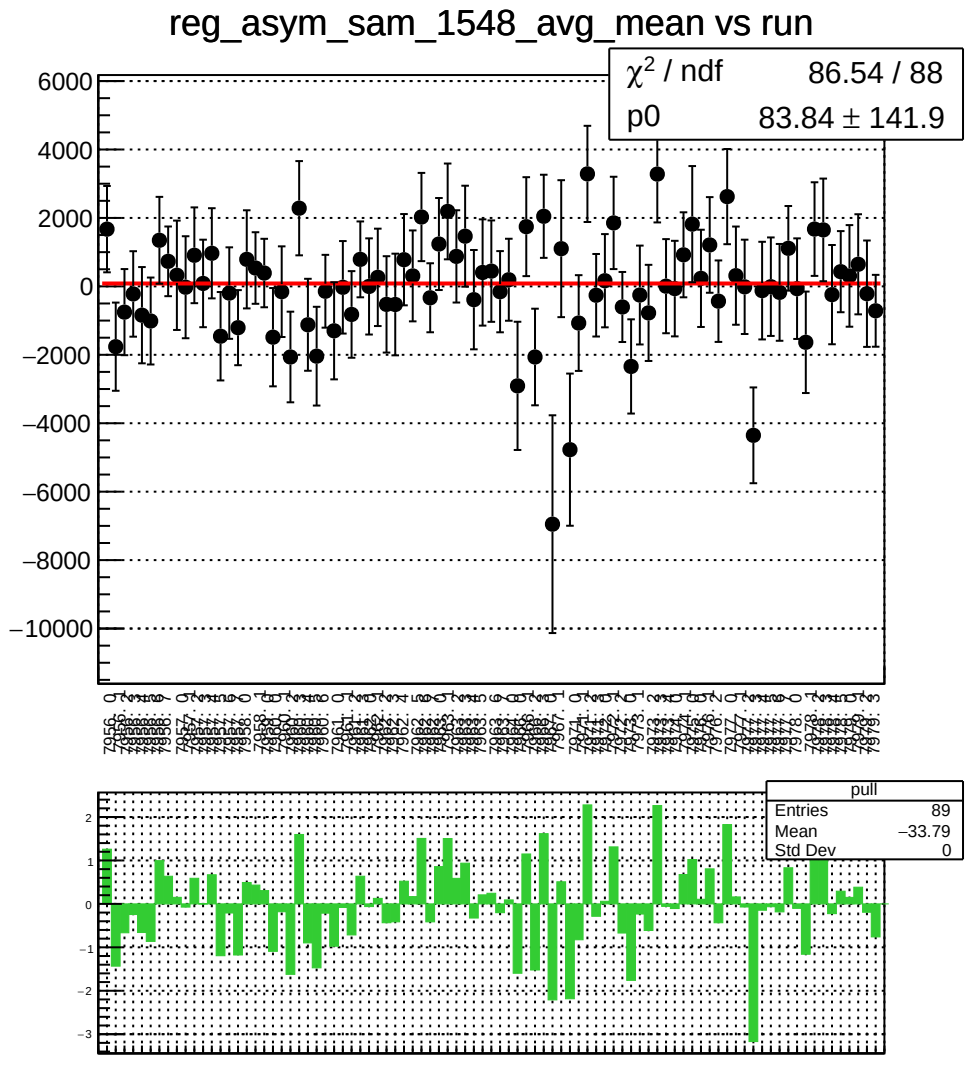

pull1D
Entries 89
Mean −0.03346
Std Dev 1.084

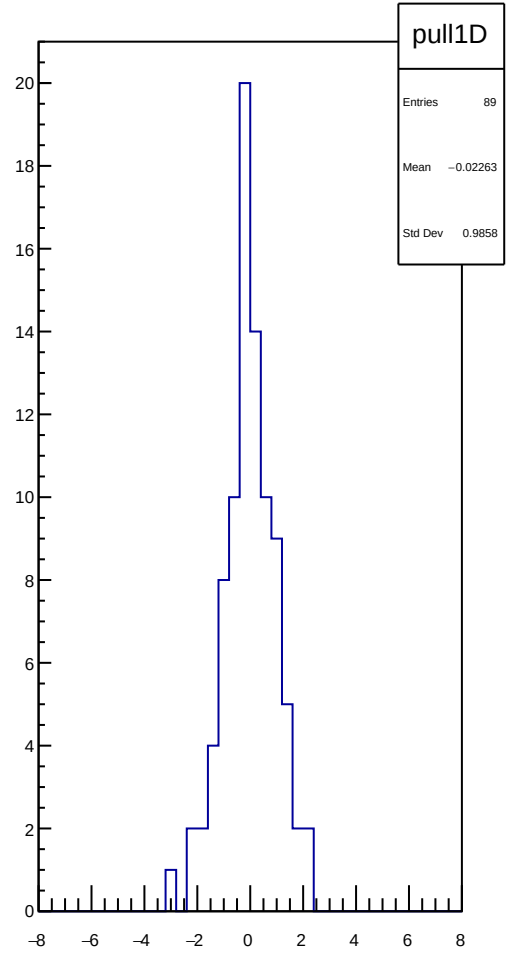

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.469e+04 / 88
p0 64.92 ± 0.04913
250
200
150
100
50

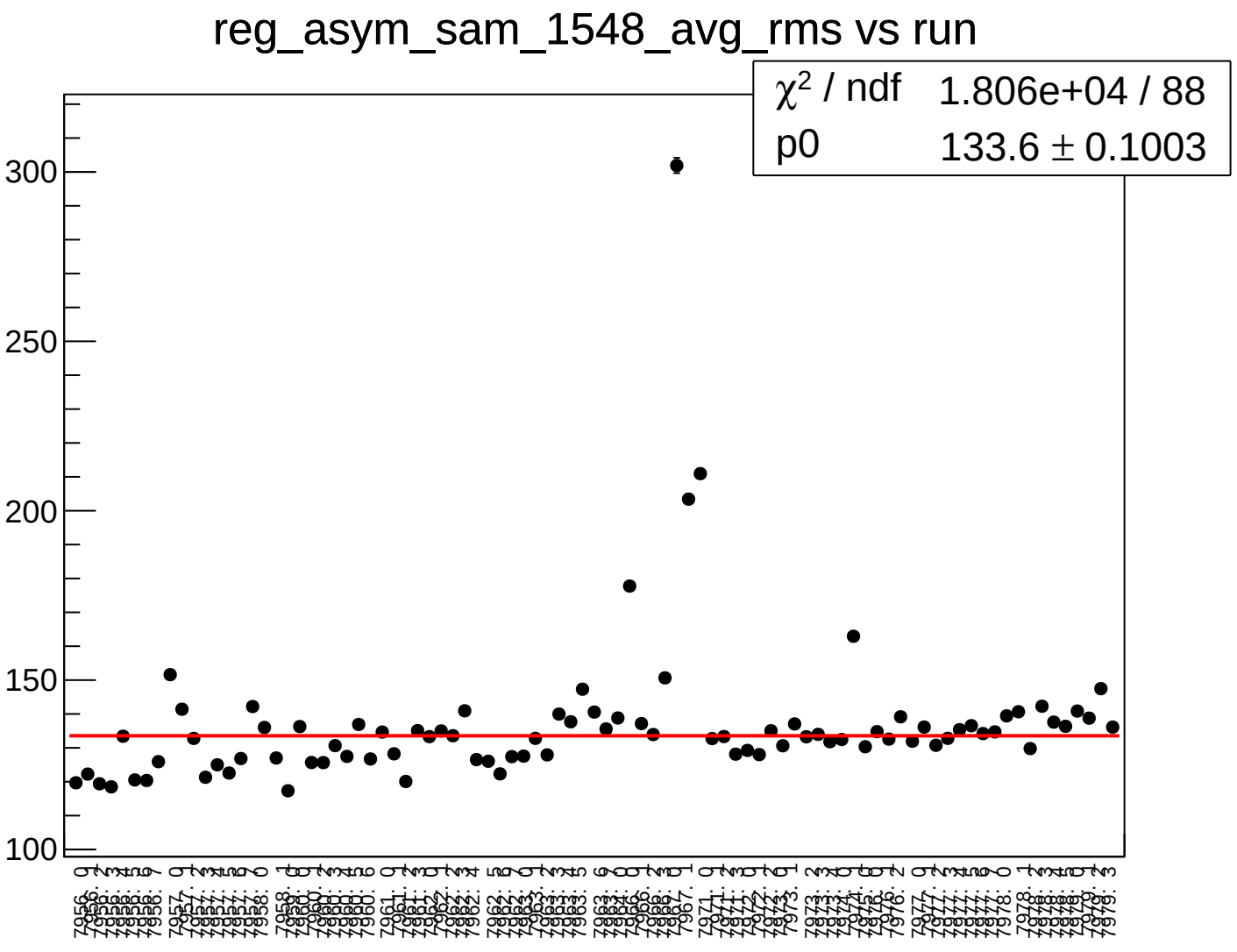

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.01 / 88
p0 2.668e−14 ± 5.252e−14
pull
Entries 89
Mean 217.6
Std Dev 0

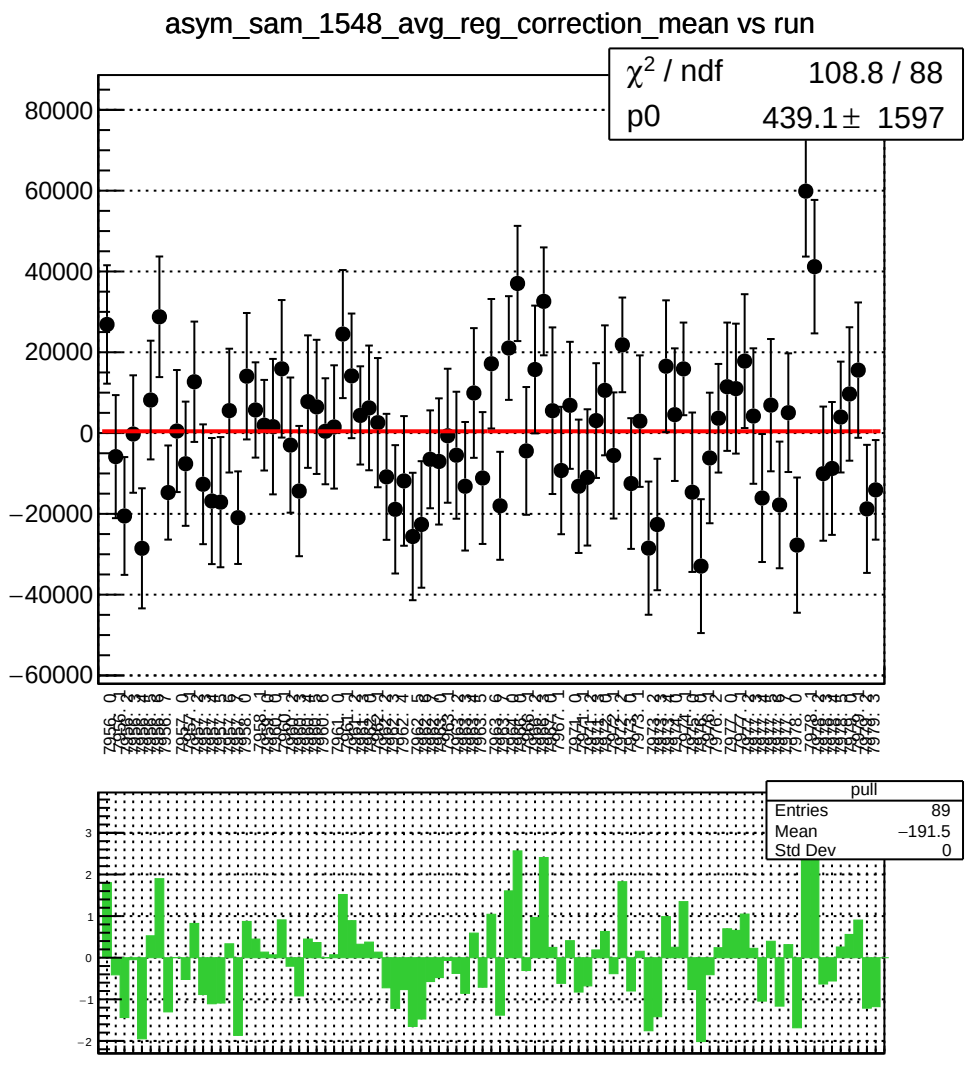

pull1D
Entries 89
Mean 0.02337
Std Dev 0.9239

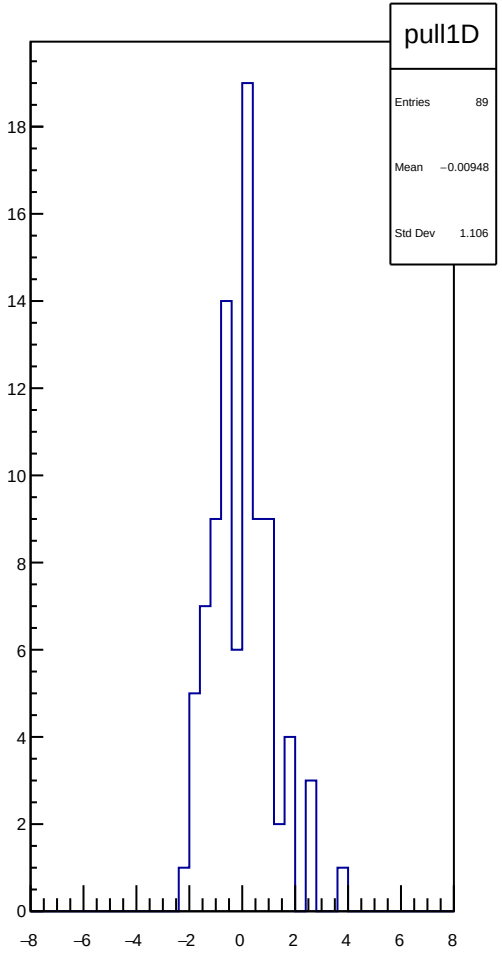

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.586e+05 / 88
p0 3.951e−11 ± 3.714e−14
0.25
0.2
0.15
0.1
0.05

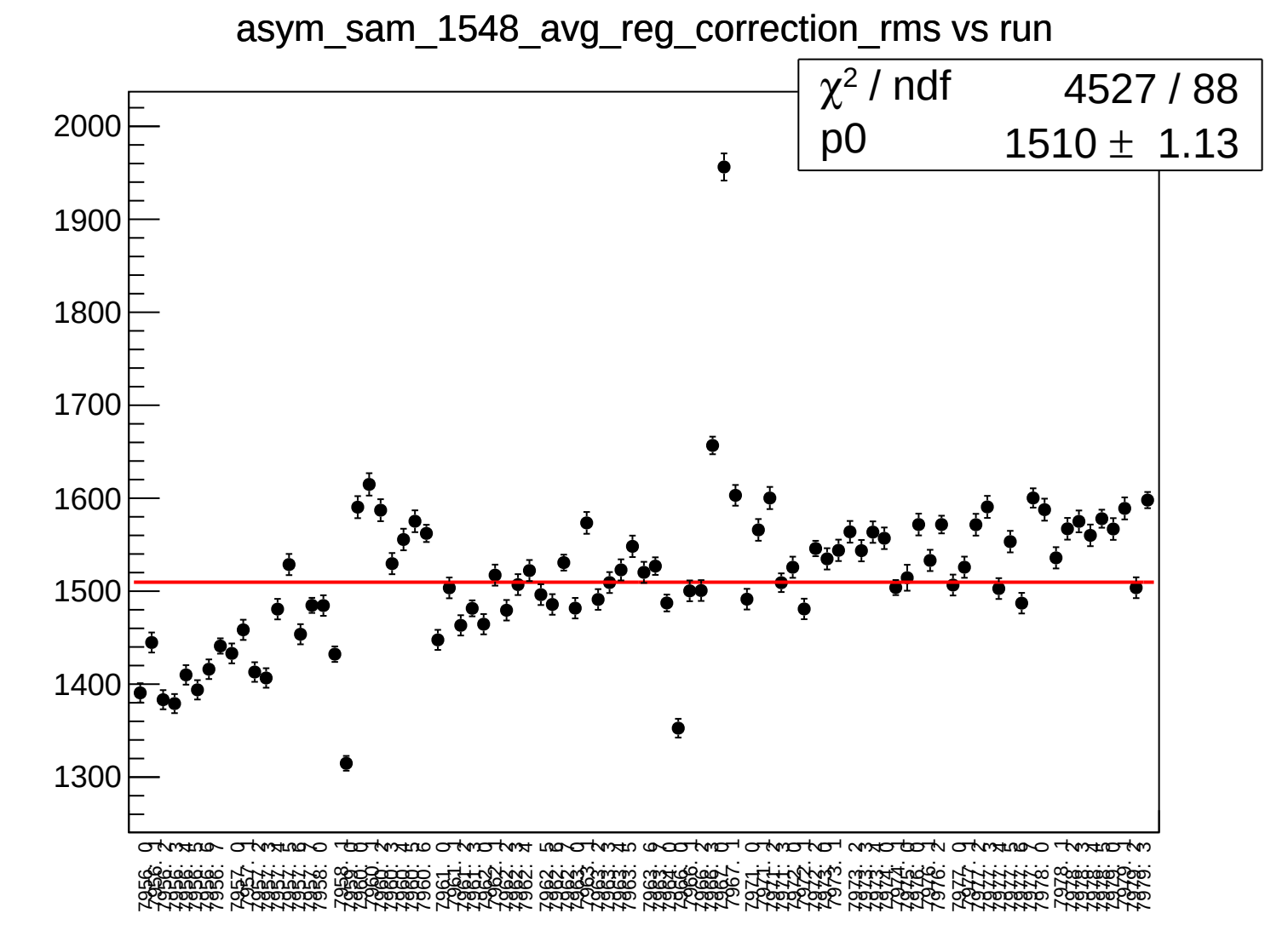

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 86.54 / 88
p0 83.84 ± 141.9
pull
Entries 89
Mean −33.79
Std Dev 0

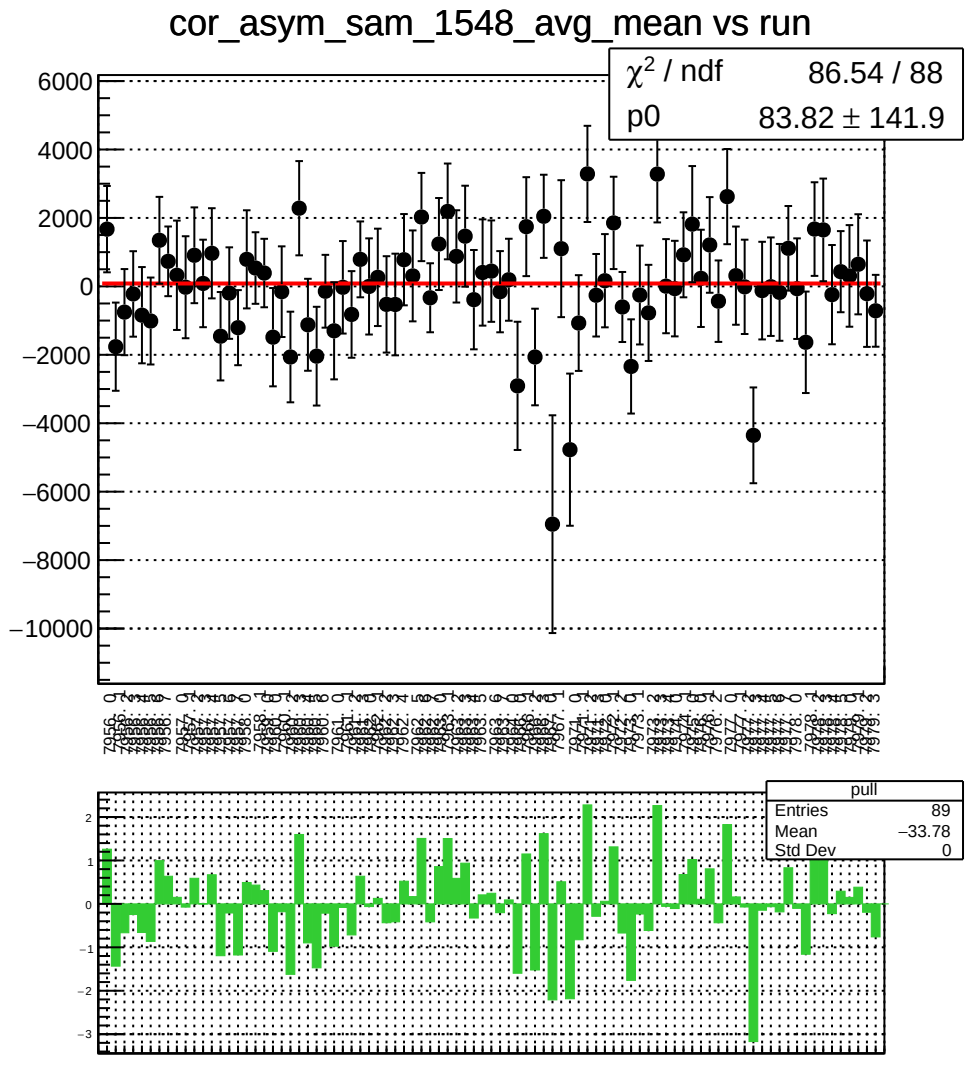

pull1D
Entries 89
Mean −0.02263
Std Dev 0.9858

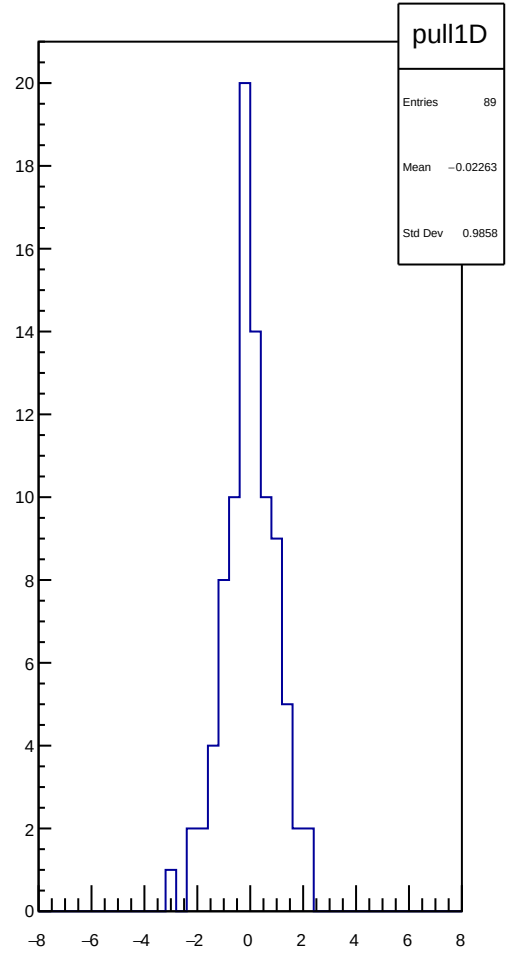

reg_asym_sam_1548_avg_rms vs run
$\chi^2$ / ndf 1.806e+04 / 88
p0 133.6 ± 0.1003
300
250
200
150
100

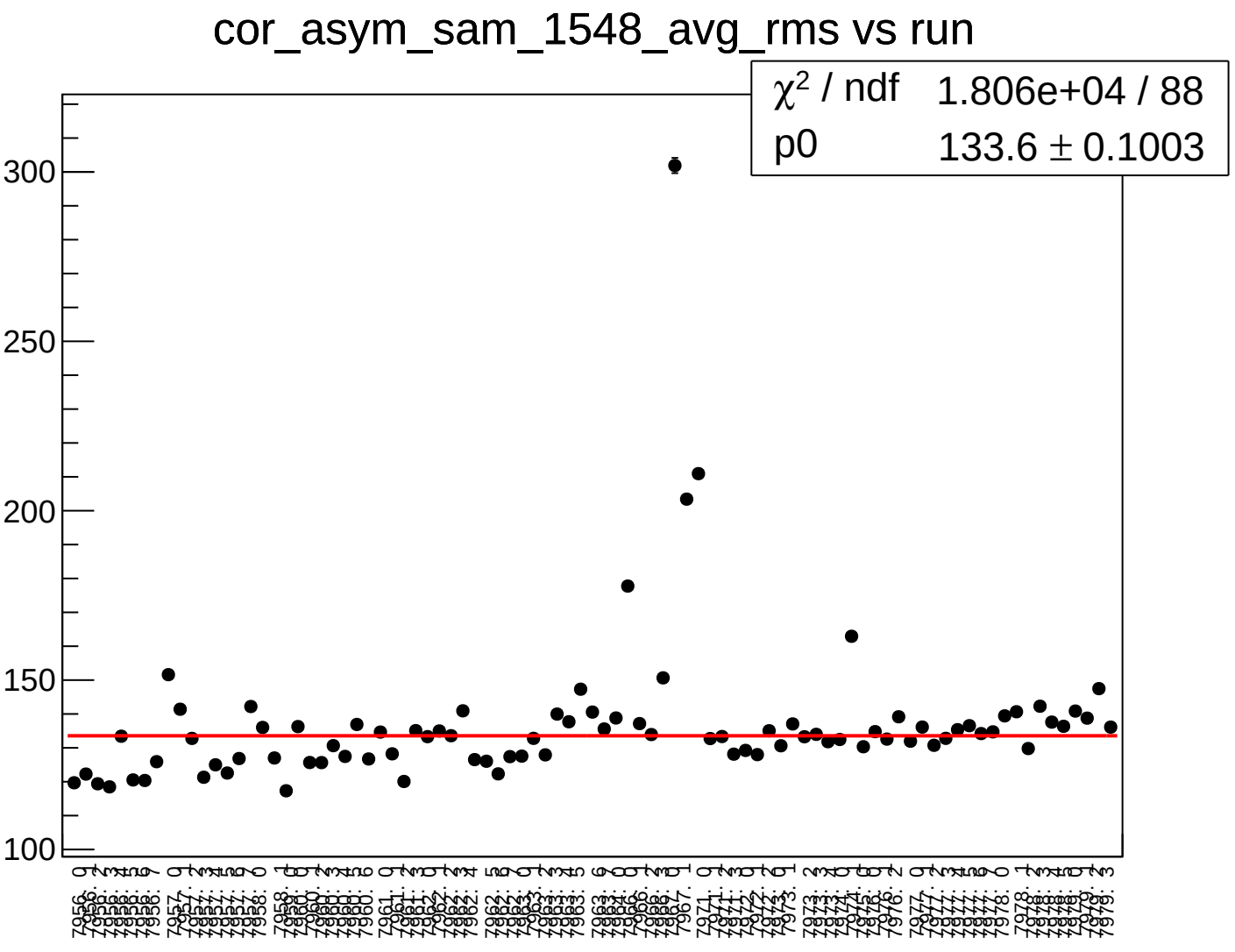

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 108.8 / 88
p0 439.1 ± 1597
pull
Entries 89
Mean −191.5
Std Dev 0

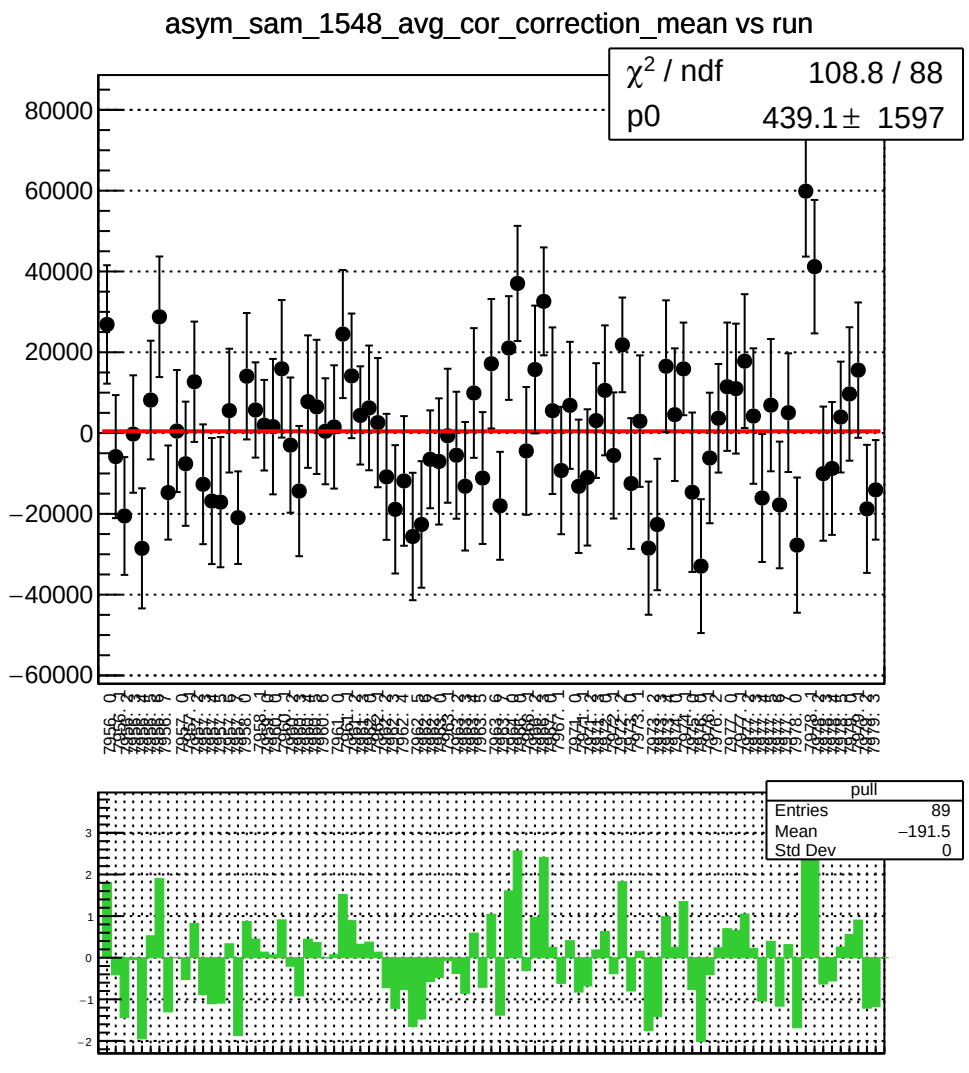

pull1D
Entries 89
Mean −0.00948
Std Dev 1.106

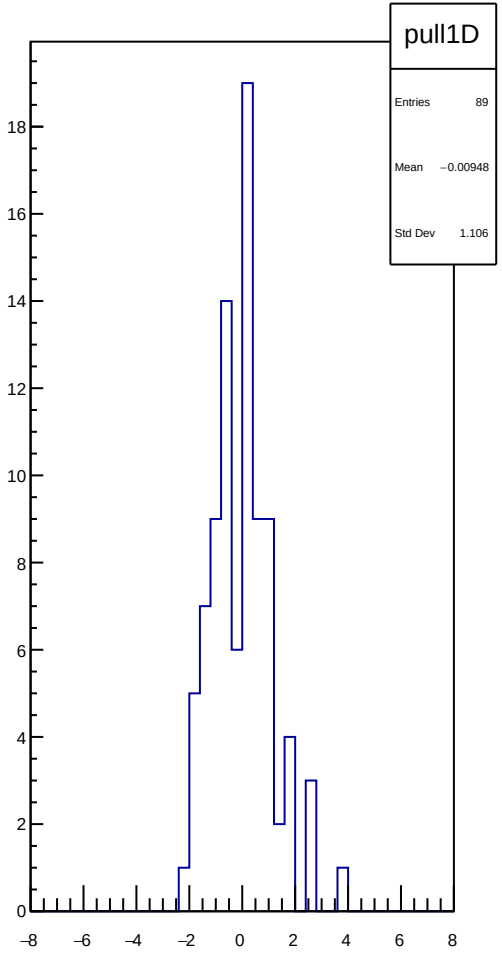

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 4527 / 88
p0 1510 ± 1.13
2000
1900
1800
1700
1600
1500
1400
1300

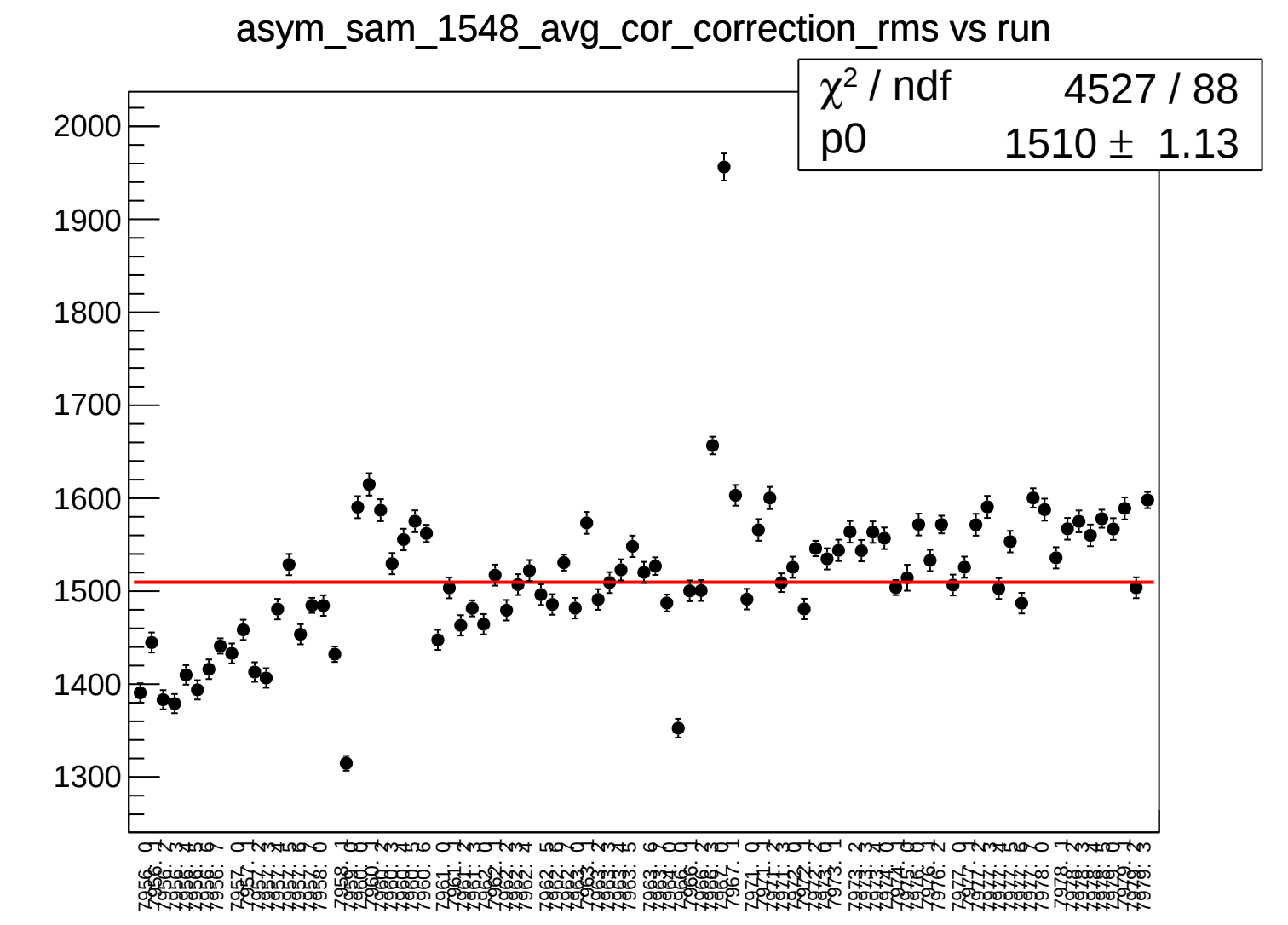

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 86.54 / 88
p0 83.82 ± 141.9
pull
Entries 89
Mean −33.78
Std Dev 0

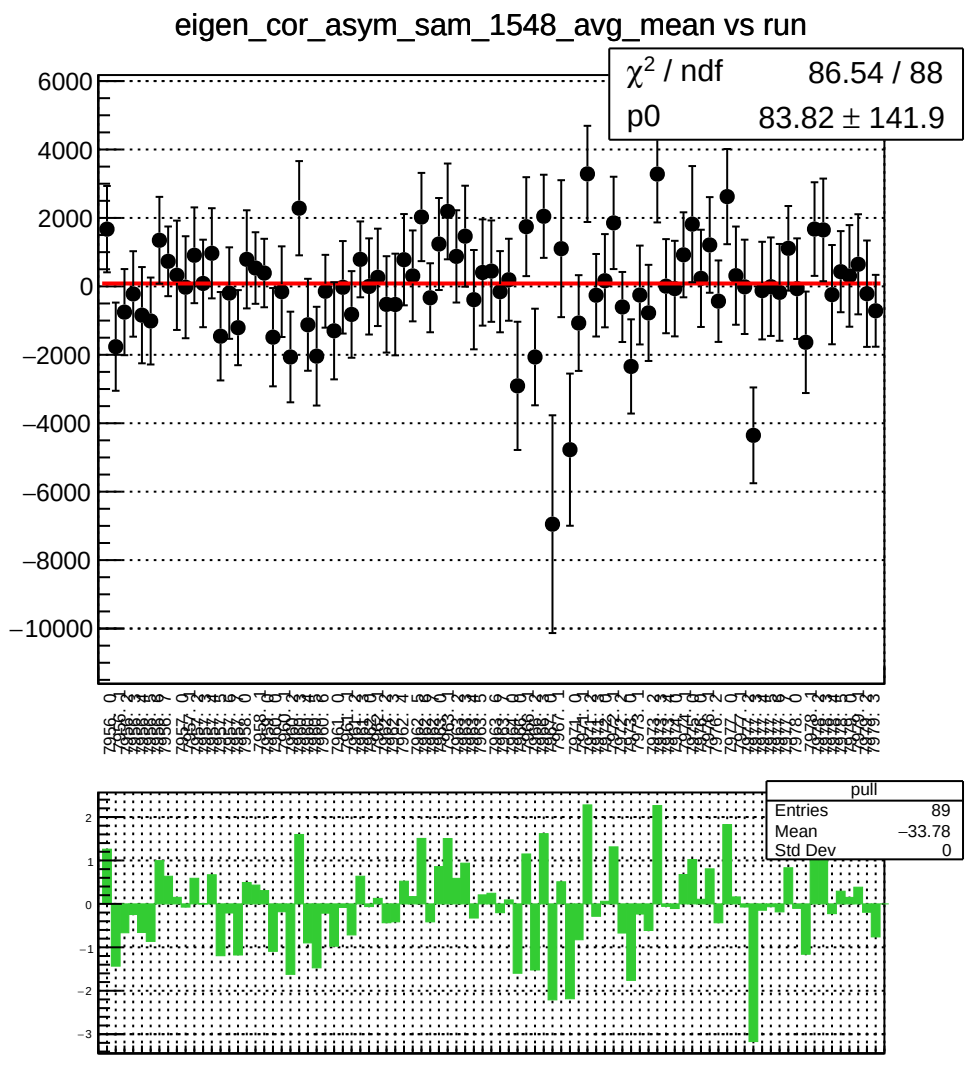

pull1D
Entries 89
Mean −0.02263
Std Dev 0.9858

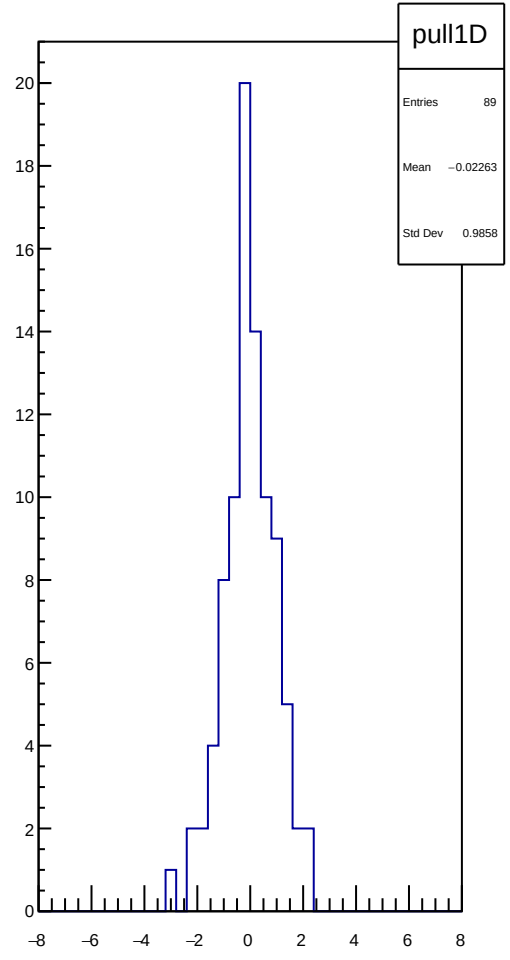

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.806e+04 / 88
p0 133.6 ± 0.1003
300
250
200
150
100

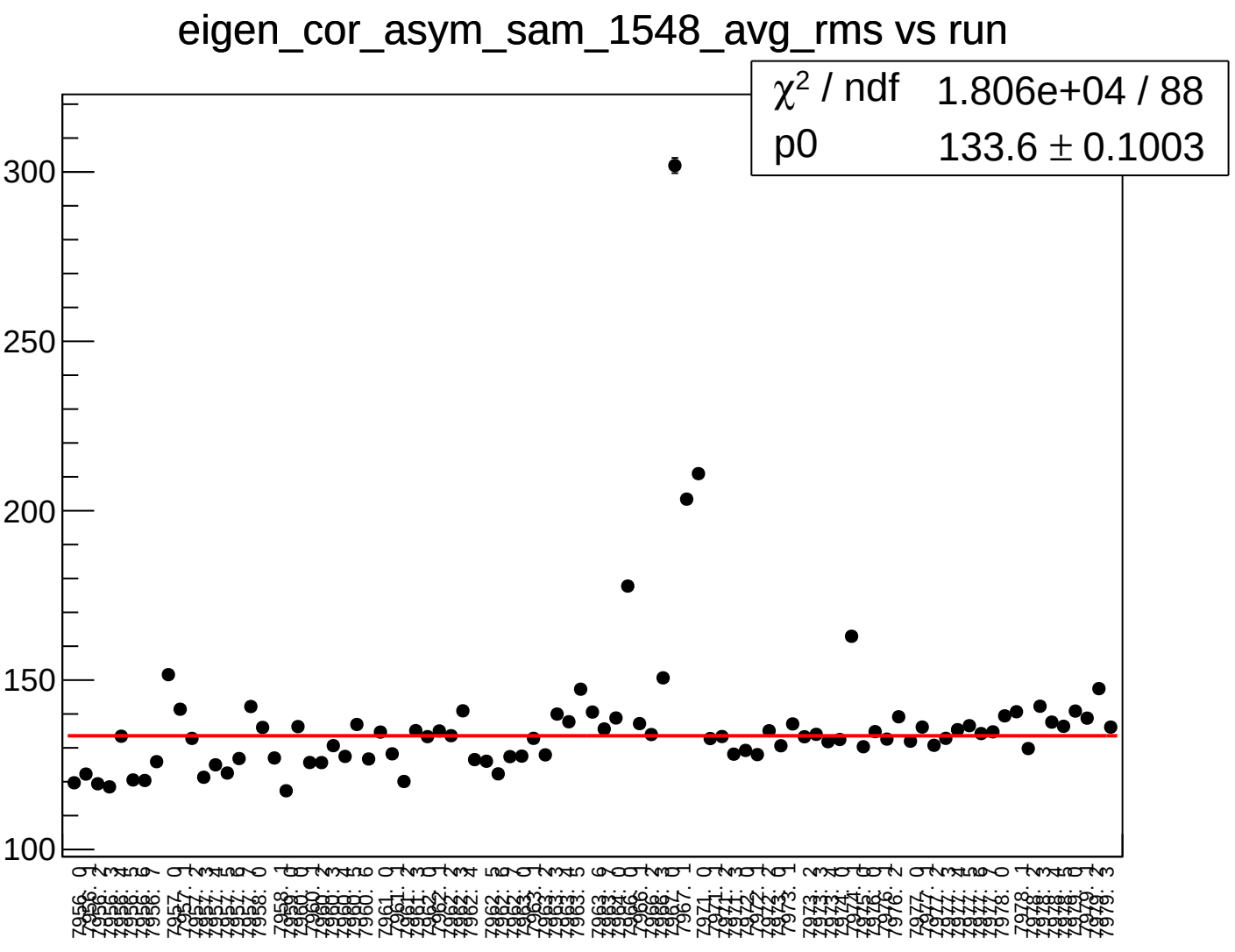

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 108.8 / 88
p0 439.1 ± 1597
pull
Entries 89
Mean −191.5
Std Dev 0

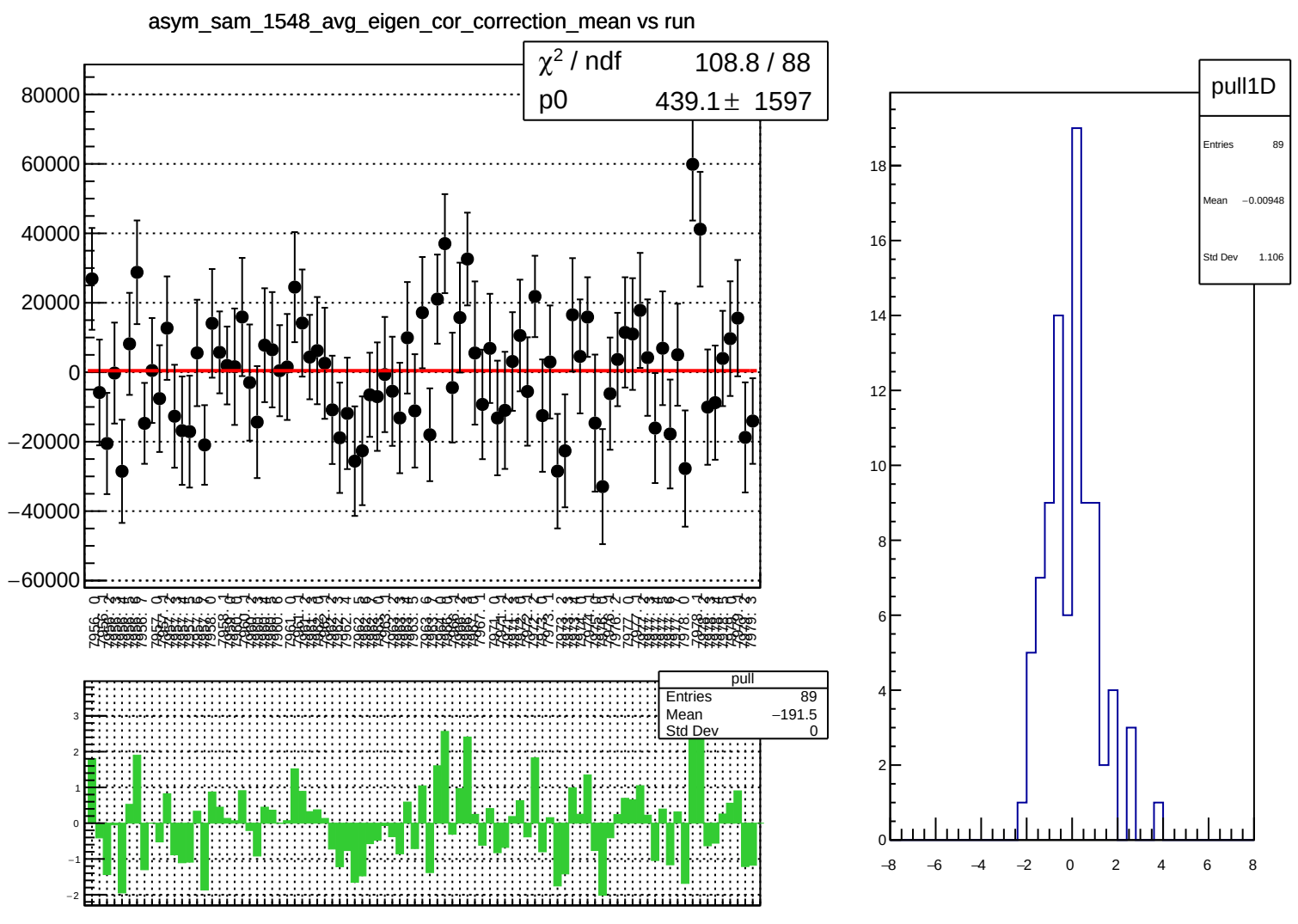

pull1D
Entries 89
Mean −0.00948
Std Dev 1.106

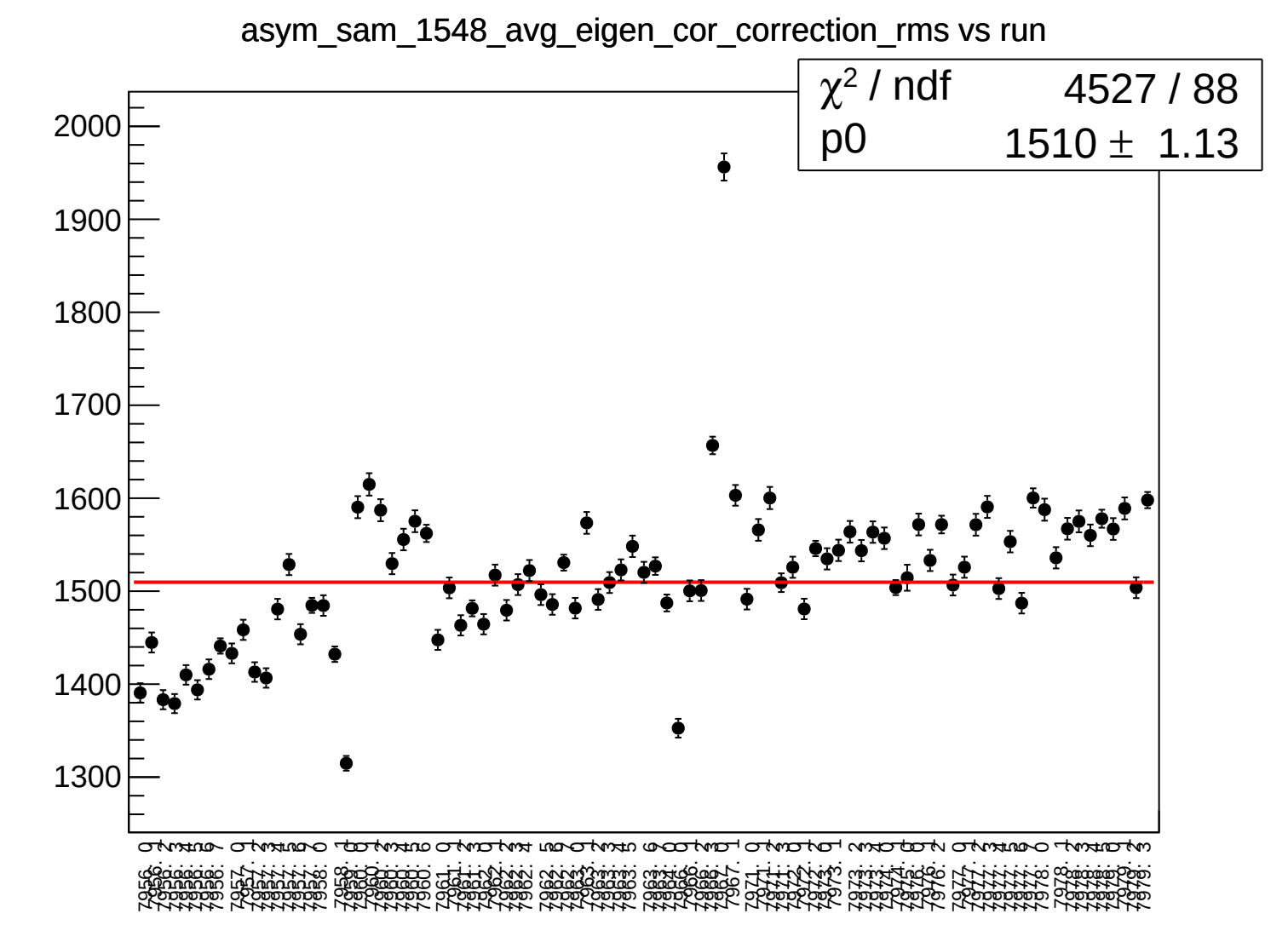

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 4527 / 88
p0 1510 ± 1.13
2000
1900
1800
1700
1600
1500
1400
1300

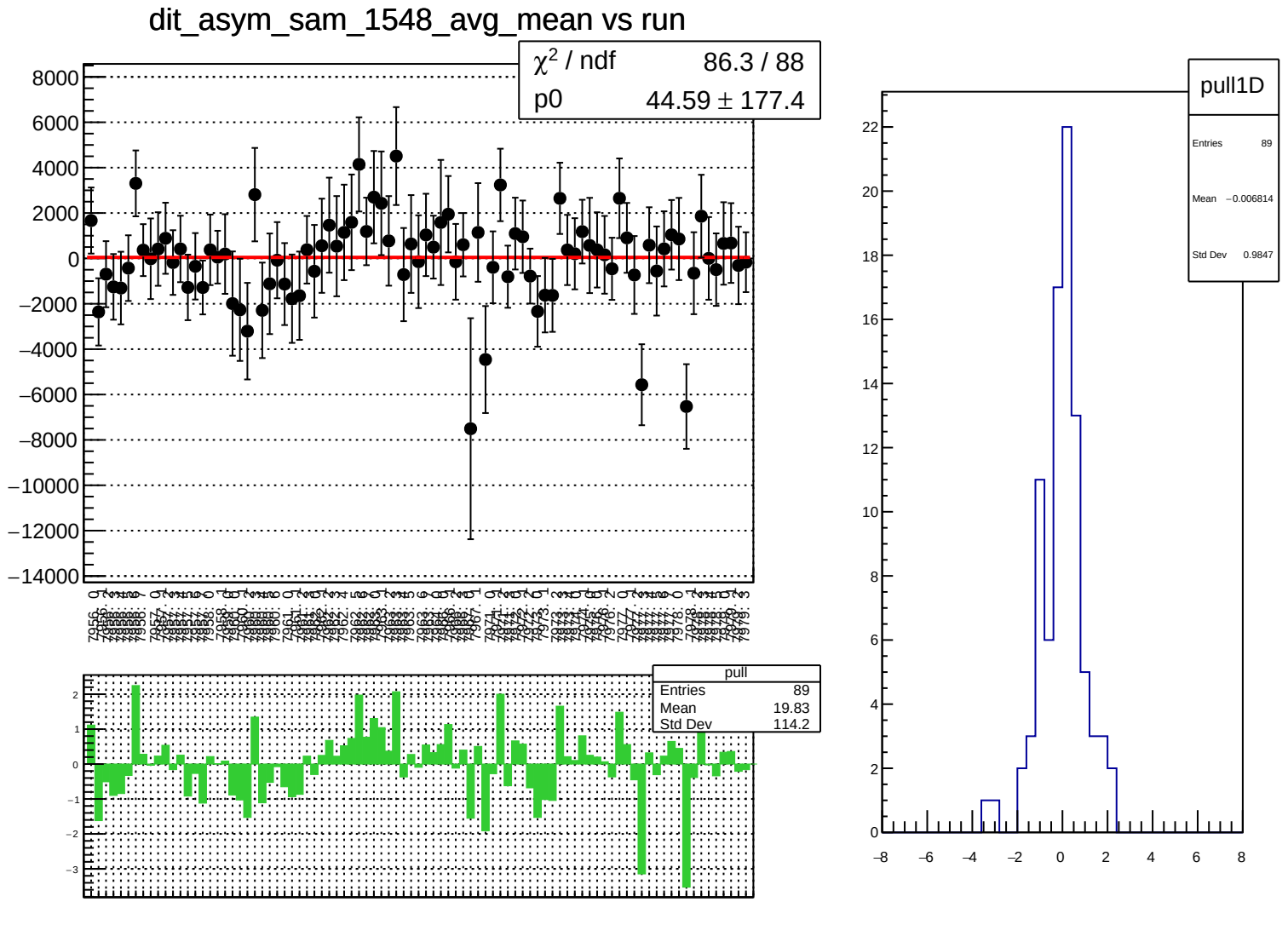

eigen_cor_asym_sam_1548_avg_mean vs run
$\chi^2$ / ndf 86.54 / 88
p0 83.82 ± 141.9
pull
Entries 89
Mean −33.78
Std Dev 0

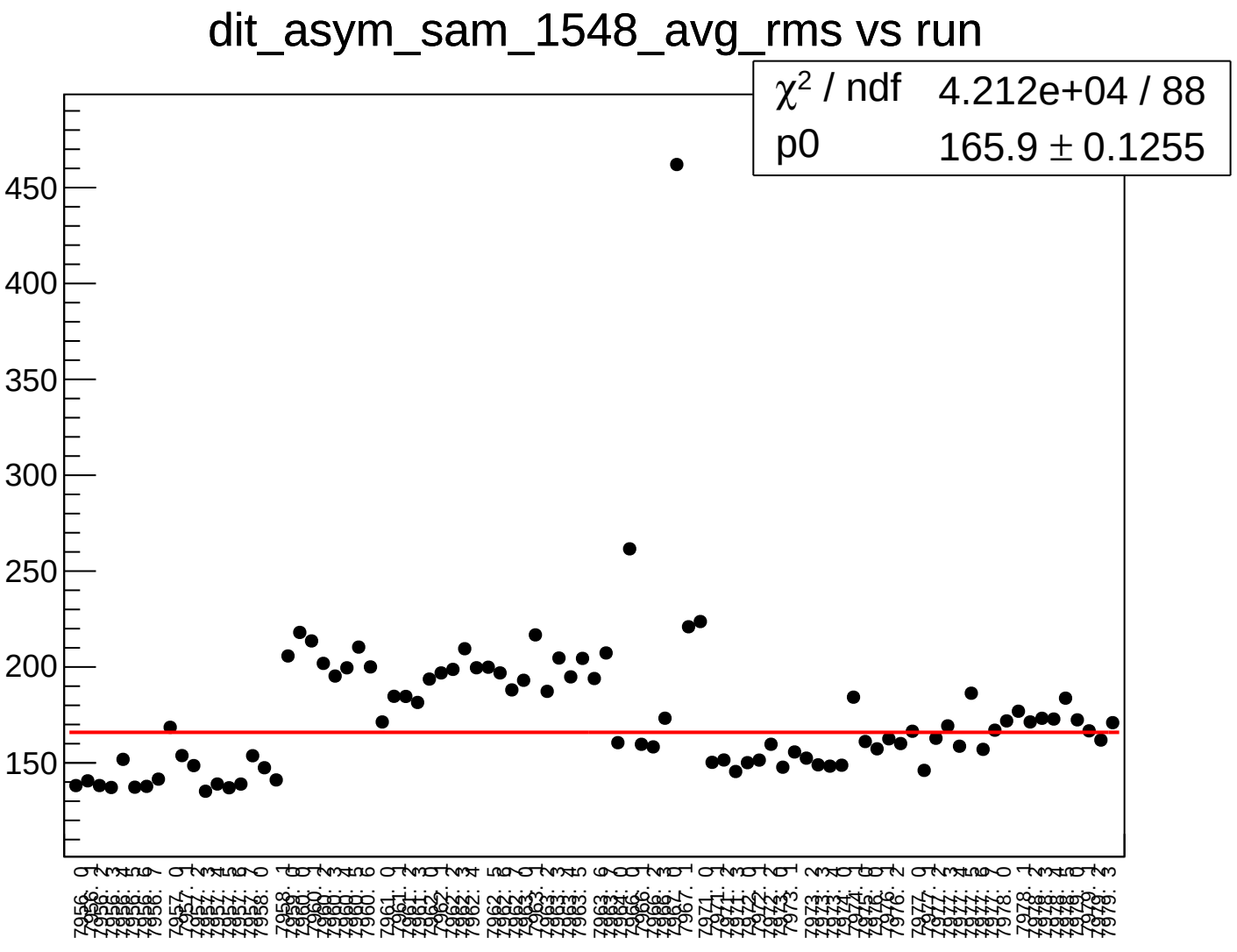

pull1D
Entries 89
Mean −0.02263
Std Dev 0.9858

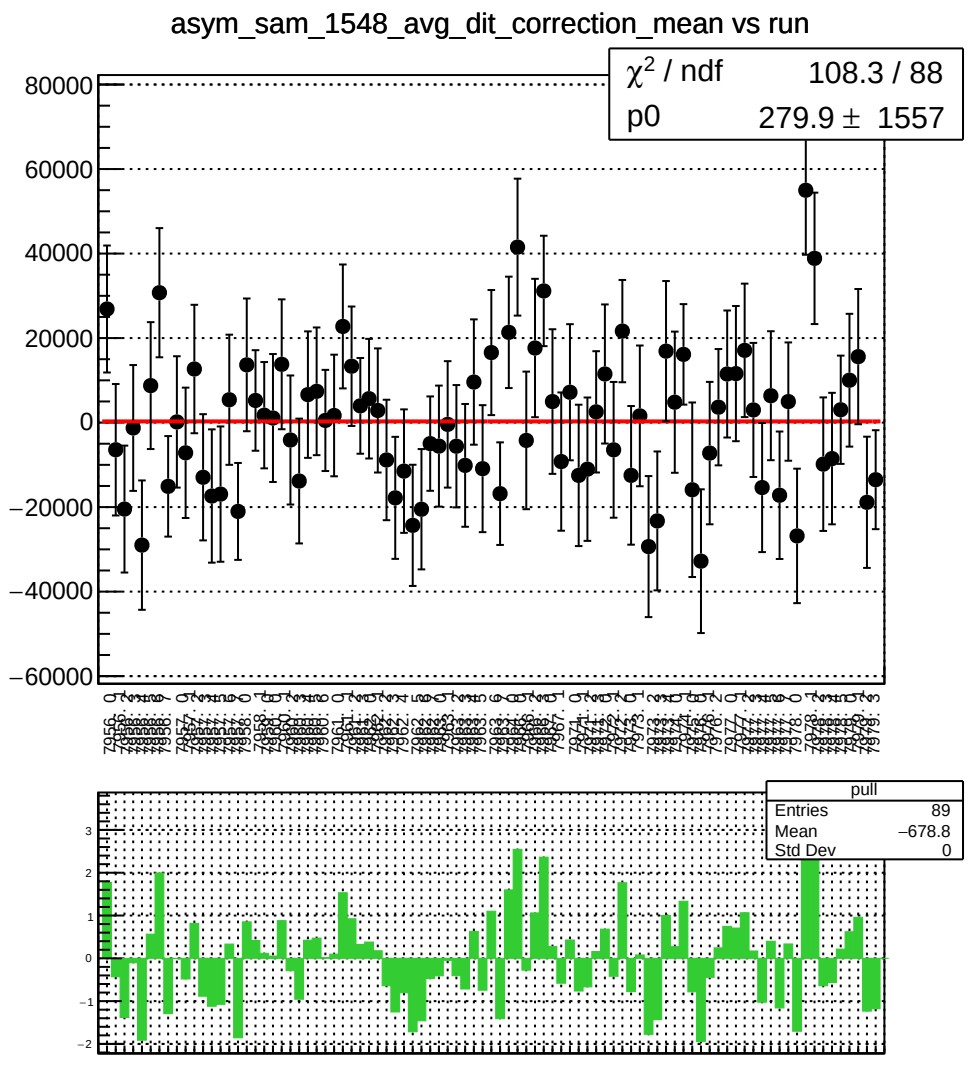

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.806e+04 / 88
p0 133.6 ± 0.1003
300
250
200
150
100

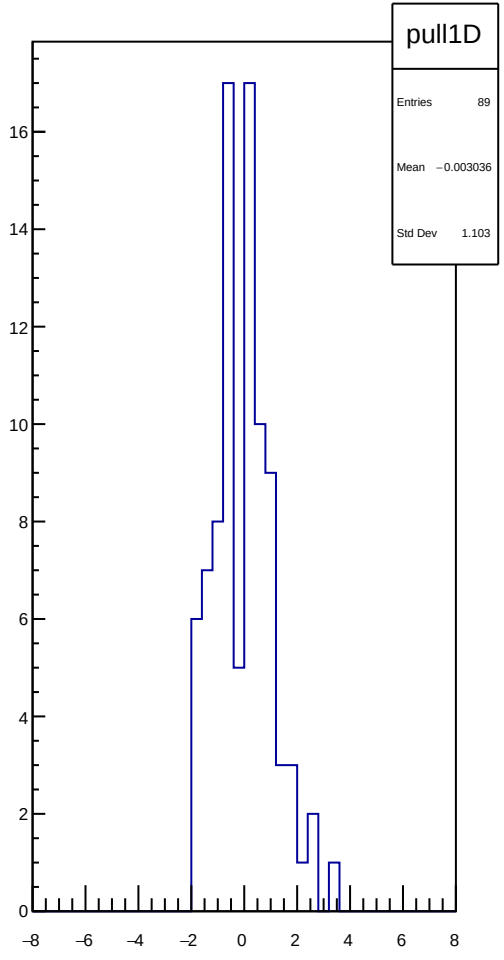

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 108.8 / 88
p0 439.1 ± 1597
pull
Entries 89
Mean −191.5
Std Dev 0
pull1D
Entries 89
Mean −0.00948
Std Dev 1.106

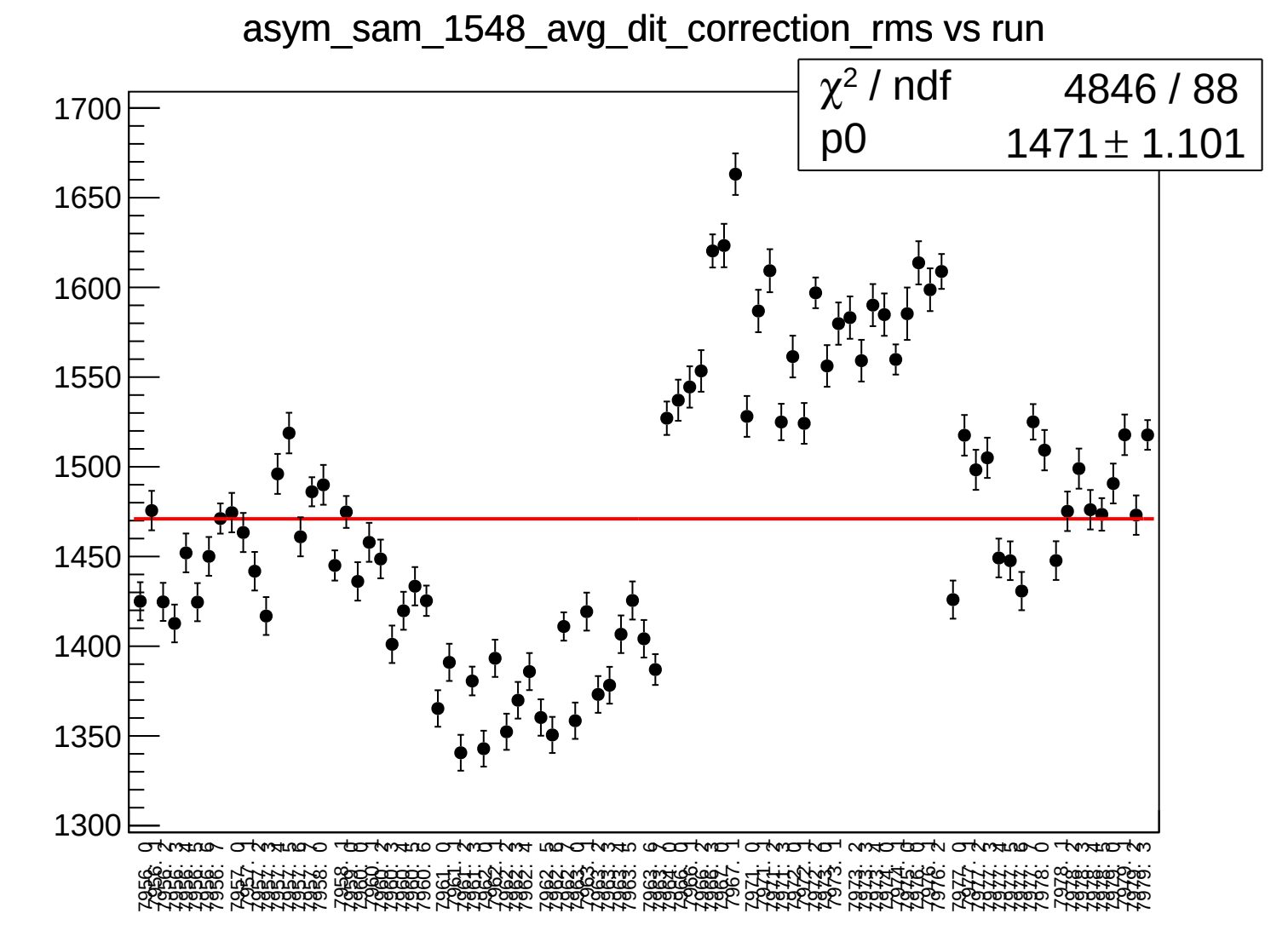

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 4527 / 88
p0 1510 ± 1.13
2000
1900
1800
1700
1600
1500
1400
1300

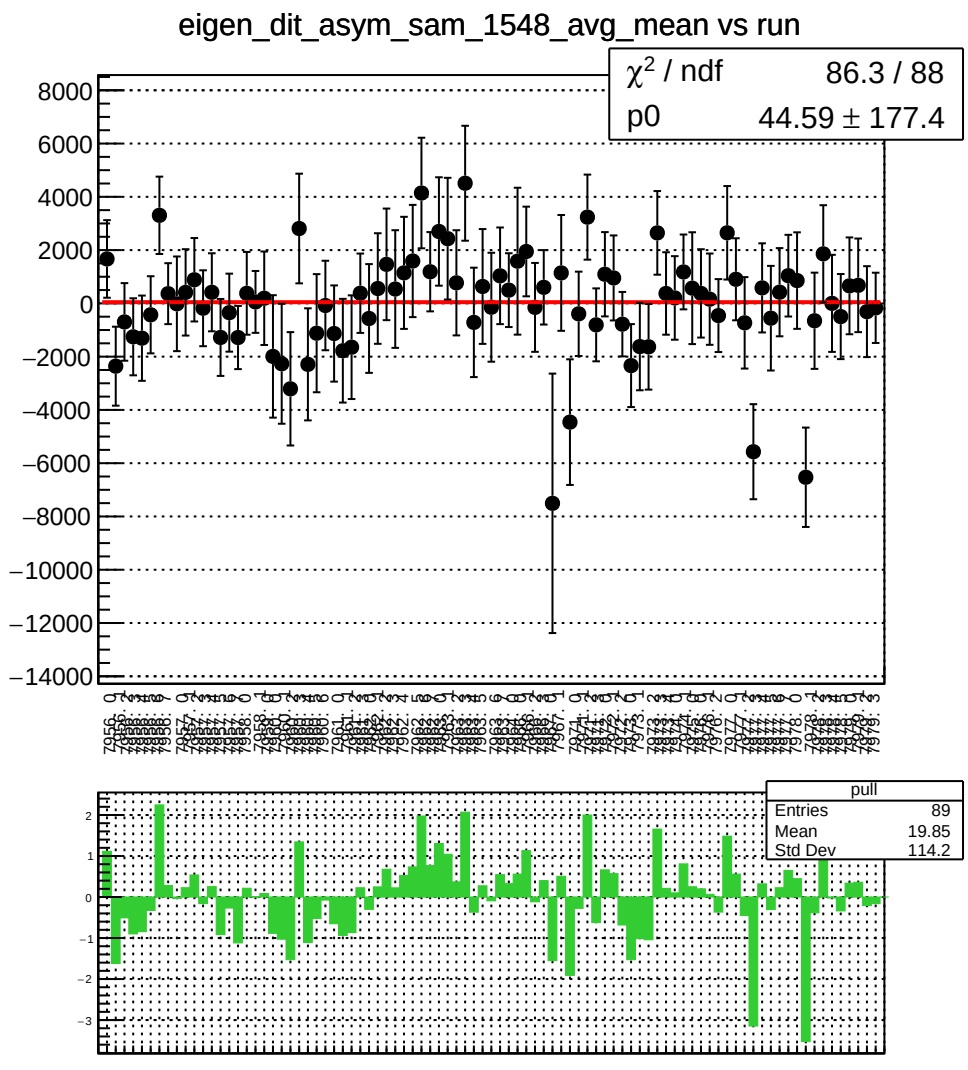

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 86.3 / 88
p0 44.59 ± 177.4
pull
Entries 89
Mean 19.83
Std Dev 114.2
pull1D
Entries 89
Mean −0.006814
Std Dev 0.9847

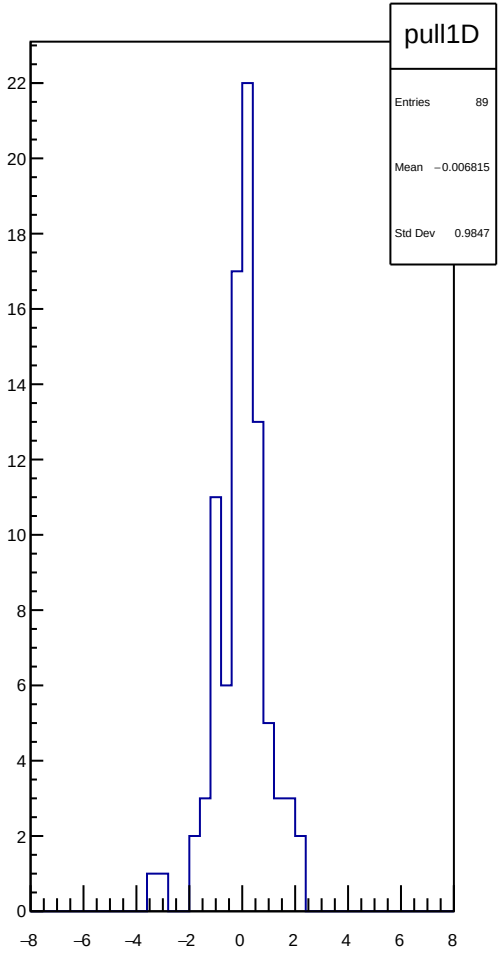

dit_asym_sam_1548_avg_rms vs run
$\chi^2$ / ndf 4.212e+04 / 88
p0 165.9 ± 0.1255
450
400
350
300
250
200
150

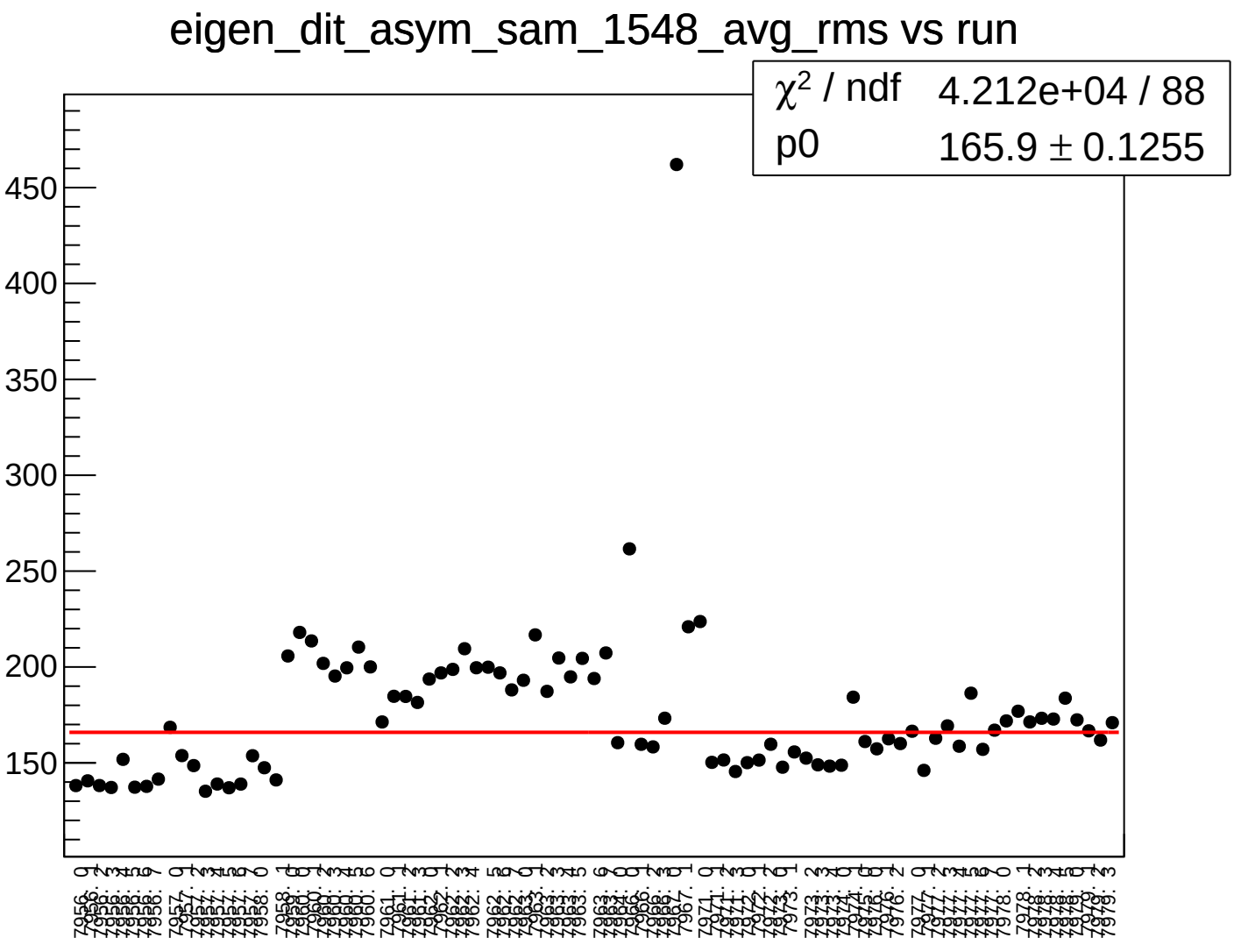

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 108.3 / 88
p0 279.9 ± 1557
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −678.8
Std Dev 0
3
2
1
0
−1
−2

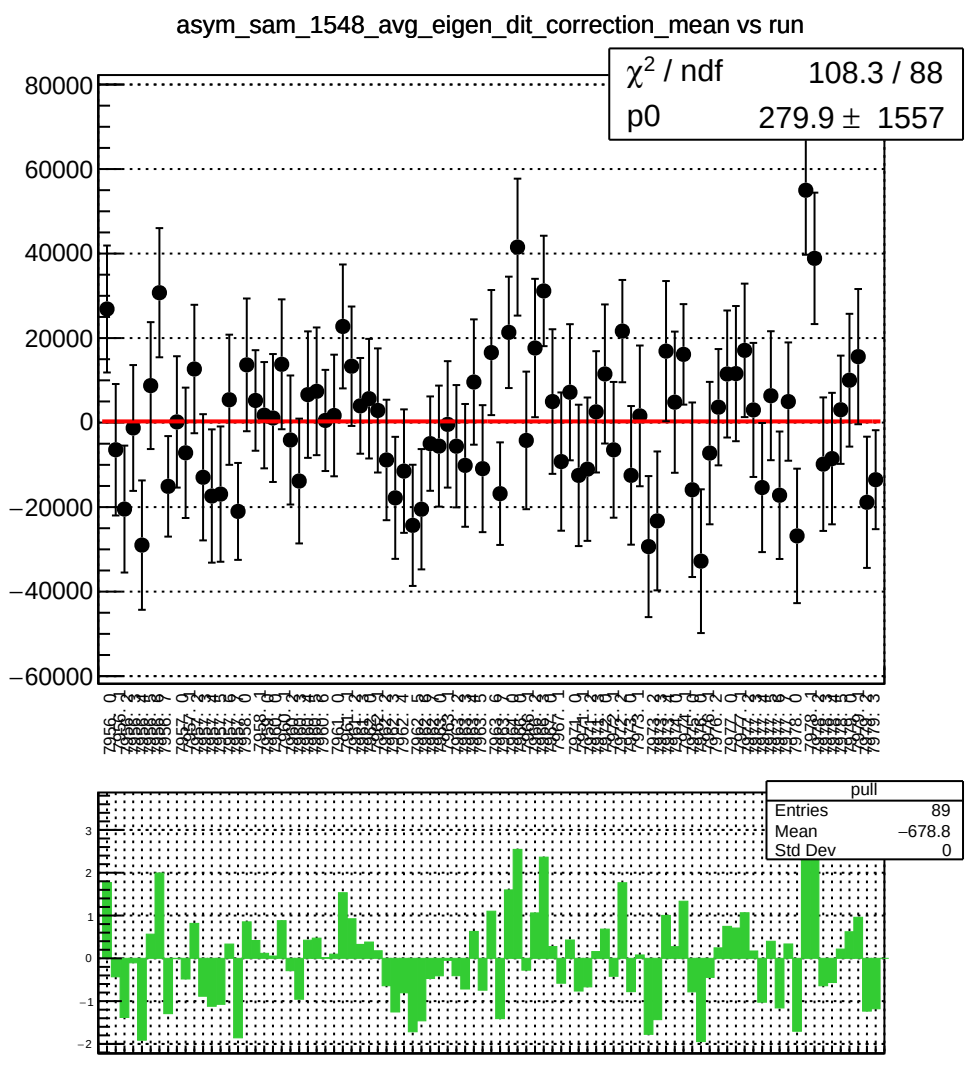

pull1D
Entries 89
Mean −0.003036
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

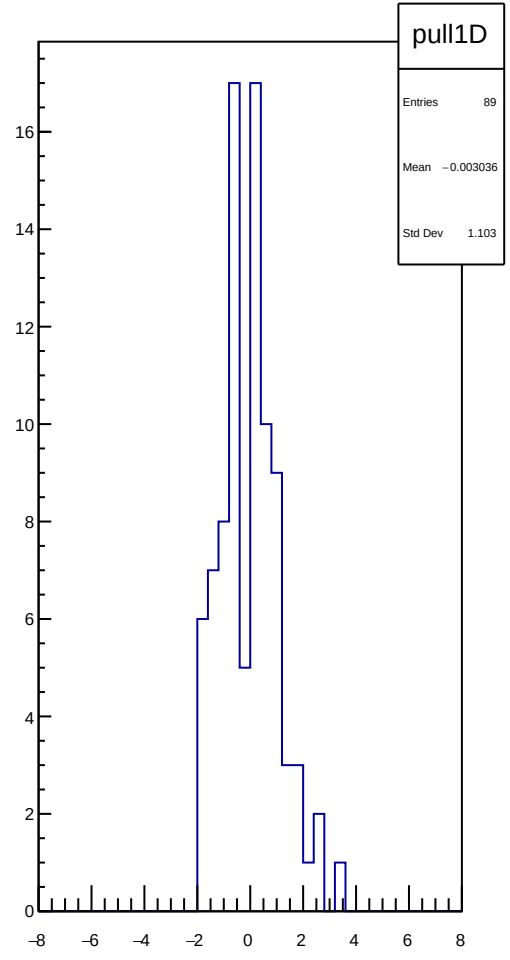

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 4846 / 88
p0 1471 ± 1.101
1700
1650
1600
1550
1500
1450
1400
1350
1300

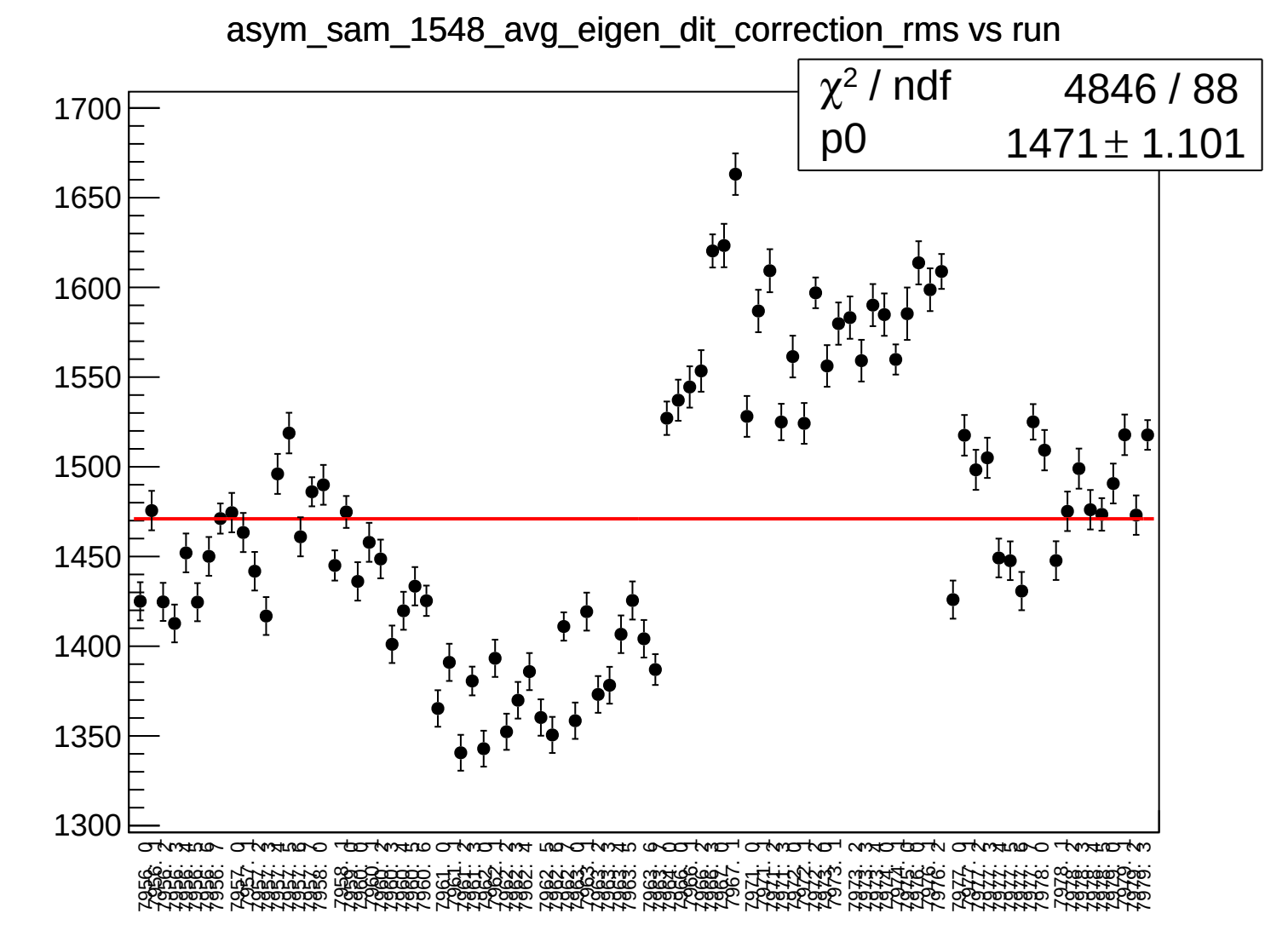

eigen_dit_asym_sam_1548_avg_mean vs run
$\chi^2$ / ndf 86.3 / 88
p0 44.59 ± 177.4
pull
Entries 89
Mean 19.85
Std Dev 114.2

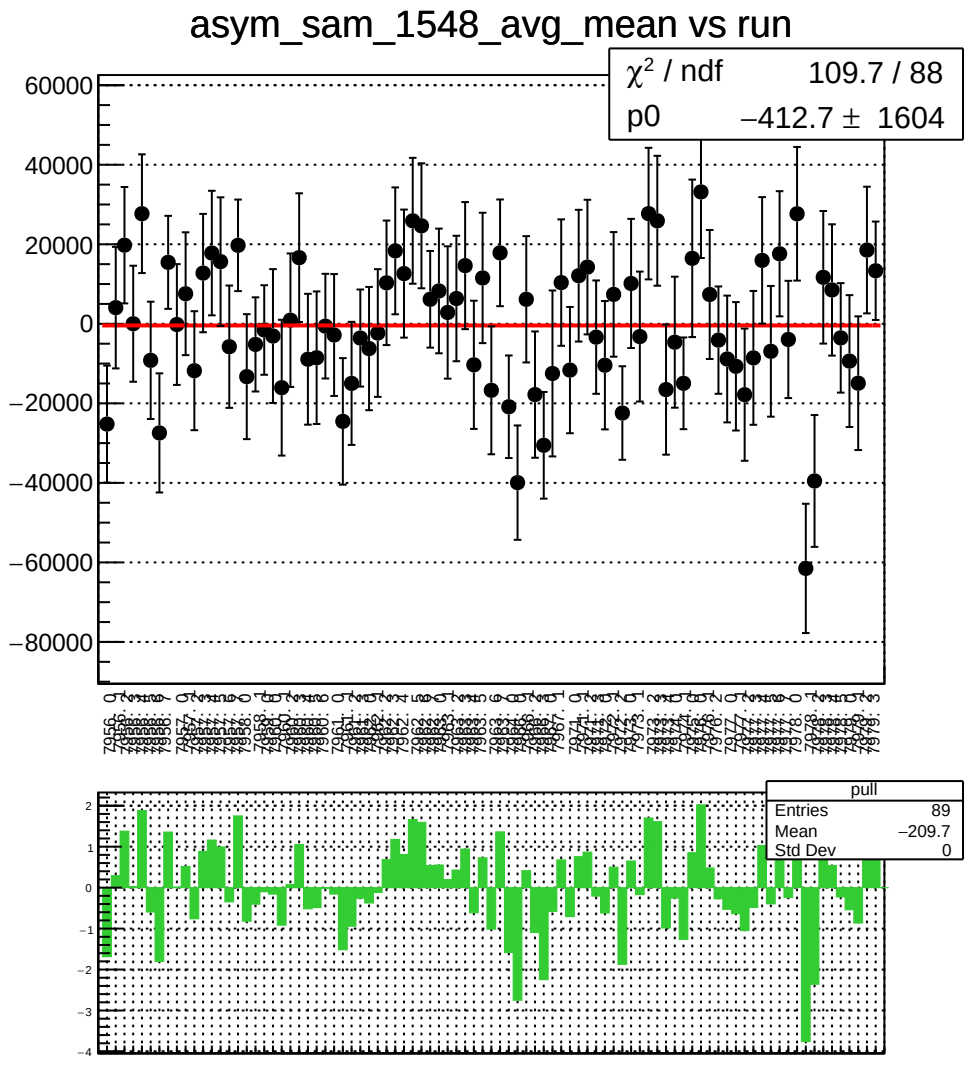

pull1D
Entries 89
Mean −0.006815
Std Dev 0.9847

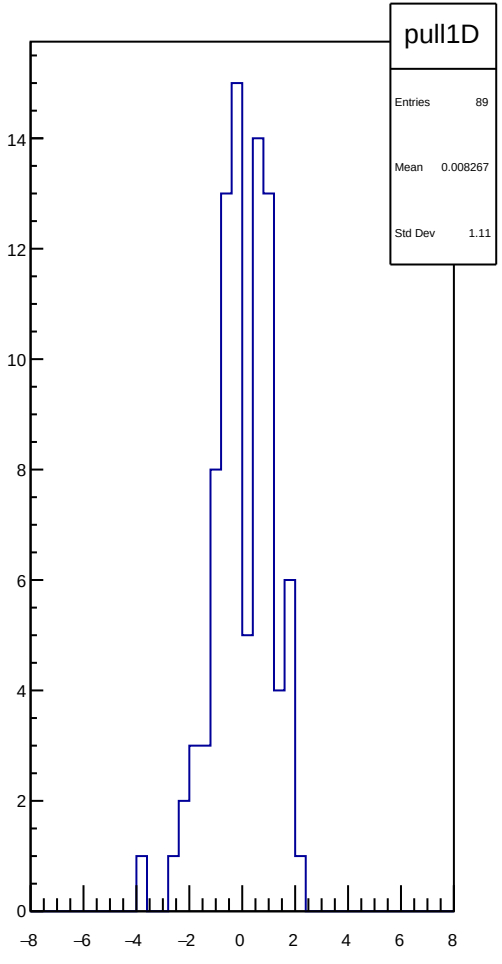

eigen_dit_asym_sam_1548_avg_rms vs run
$\chi^2$ / ndf 4.212e+04 / 88
p0 165.9 ± 0.1255
450
400
350
300
250
200
150

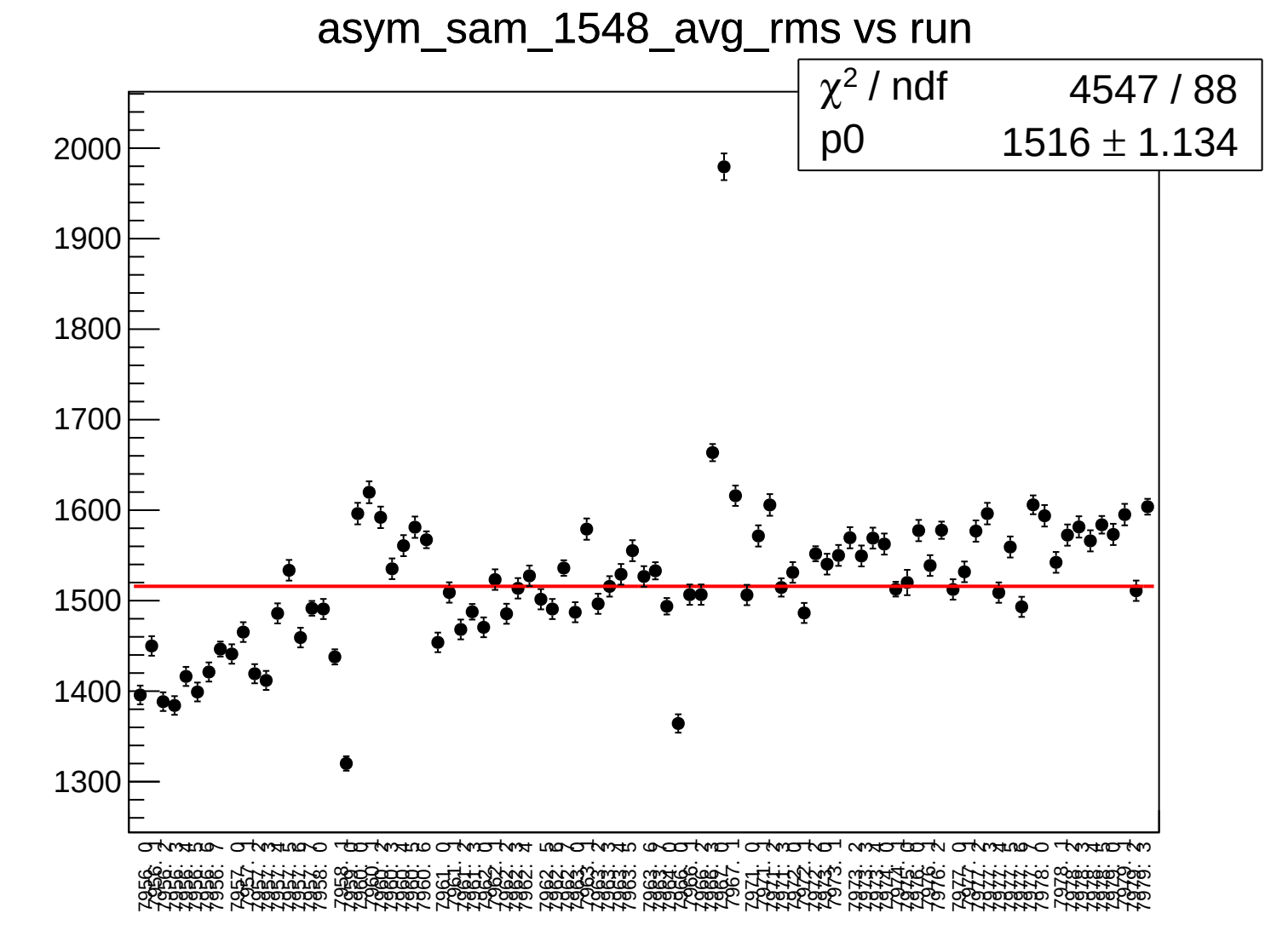

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 108.3 / 88
p0 279.9 ± 1557
pull
Entries 89
Mean −678.8
Std Dev 0

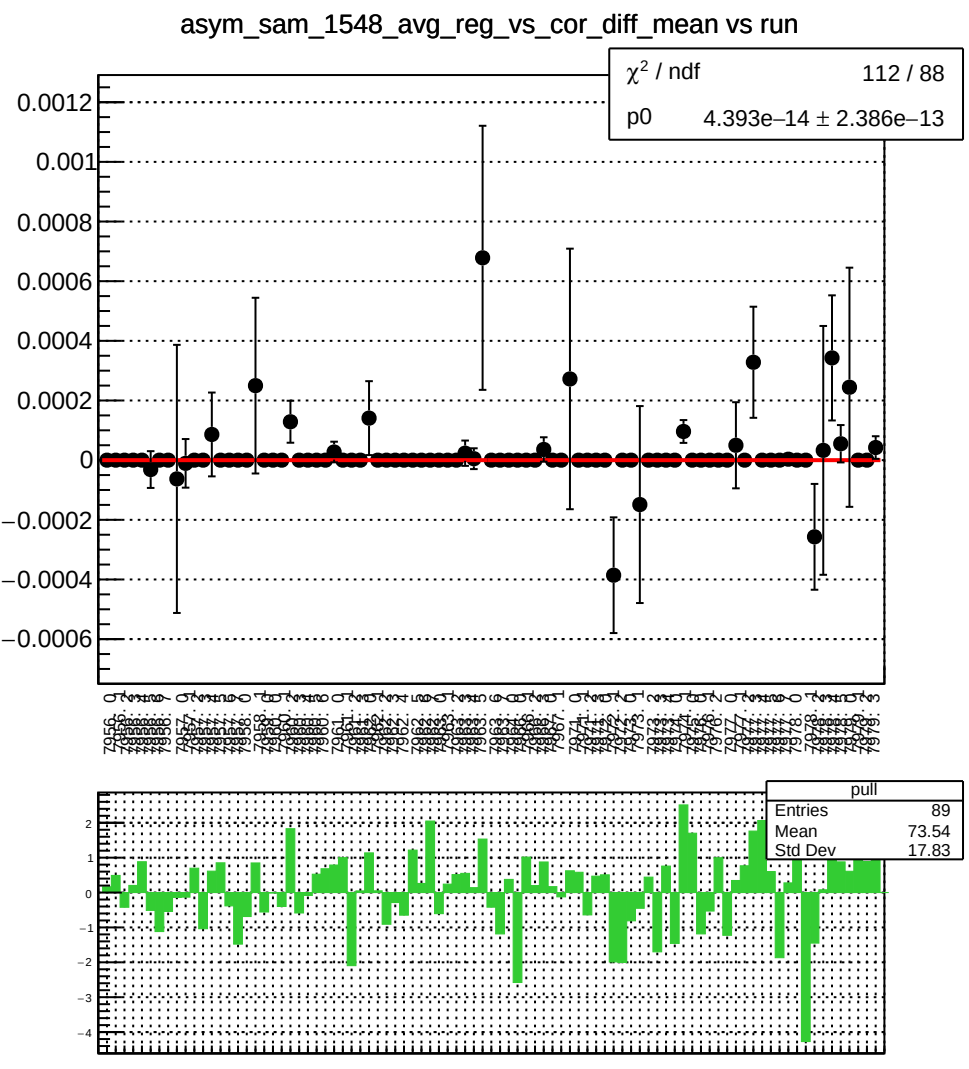

pull1D
Entries 89
Mean −0.003036
Std Dev 1.103

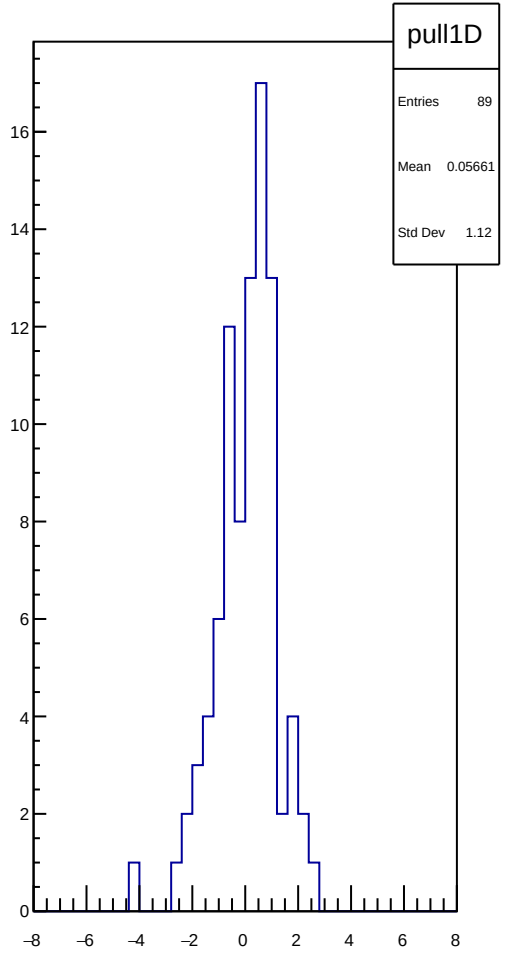

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 4846 / 88
p0 1471 ± 1.101
1700
1650
1600
1550
1500
1450
1400
1350
1300

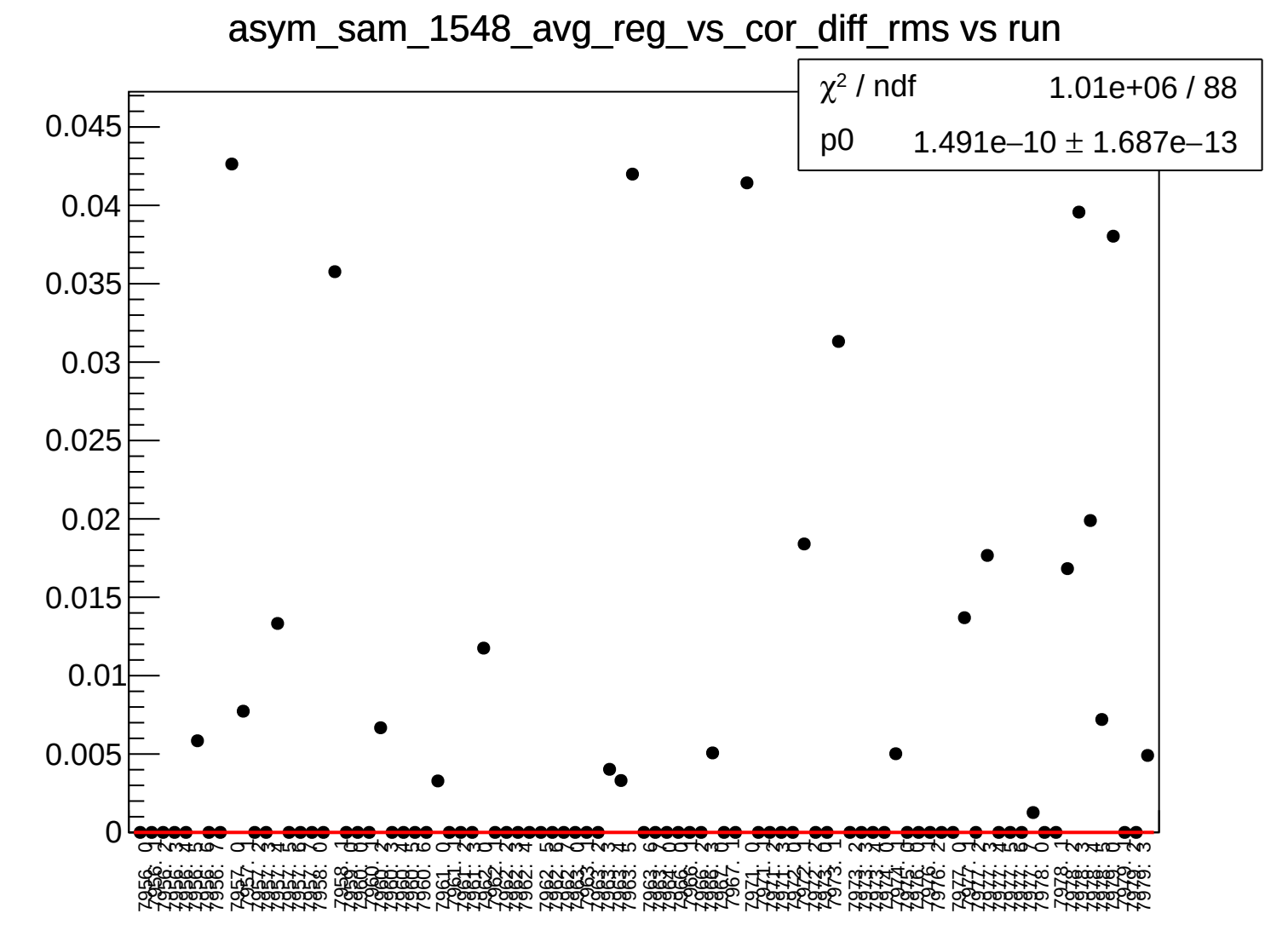

asym_sam_1548_avg_mean vs run
χ² / ndf 109.7 / 88
p0 −412.7 ± 1604
pull
Entries 89
Mean −209.7
Std Dev 0

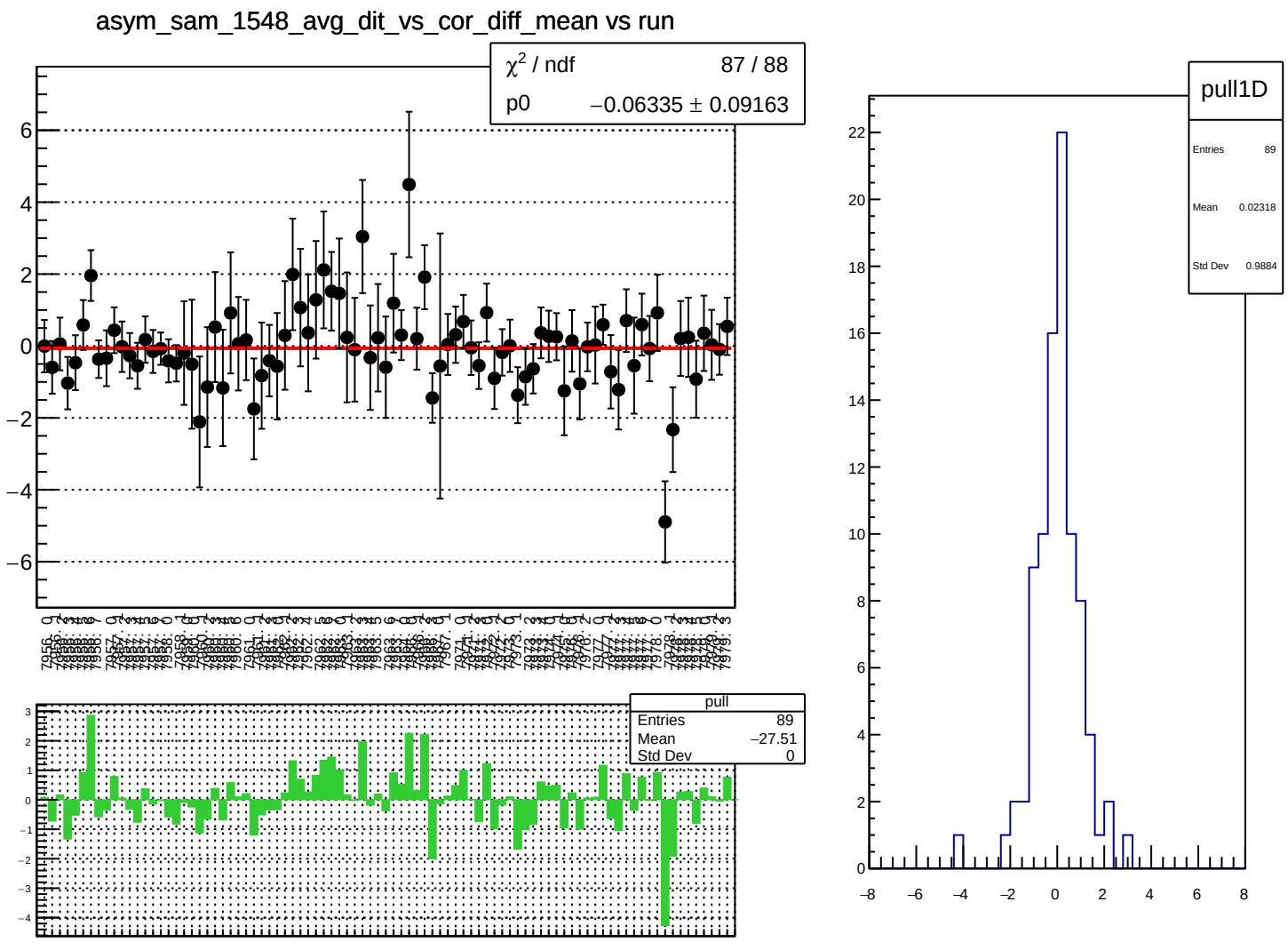

pull1D
Entries 89
Mean 0.008267
Std Dev 1.11

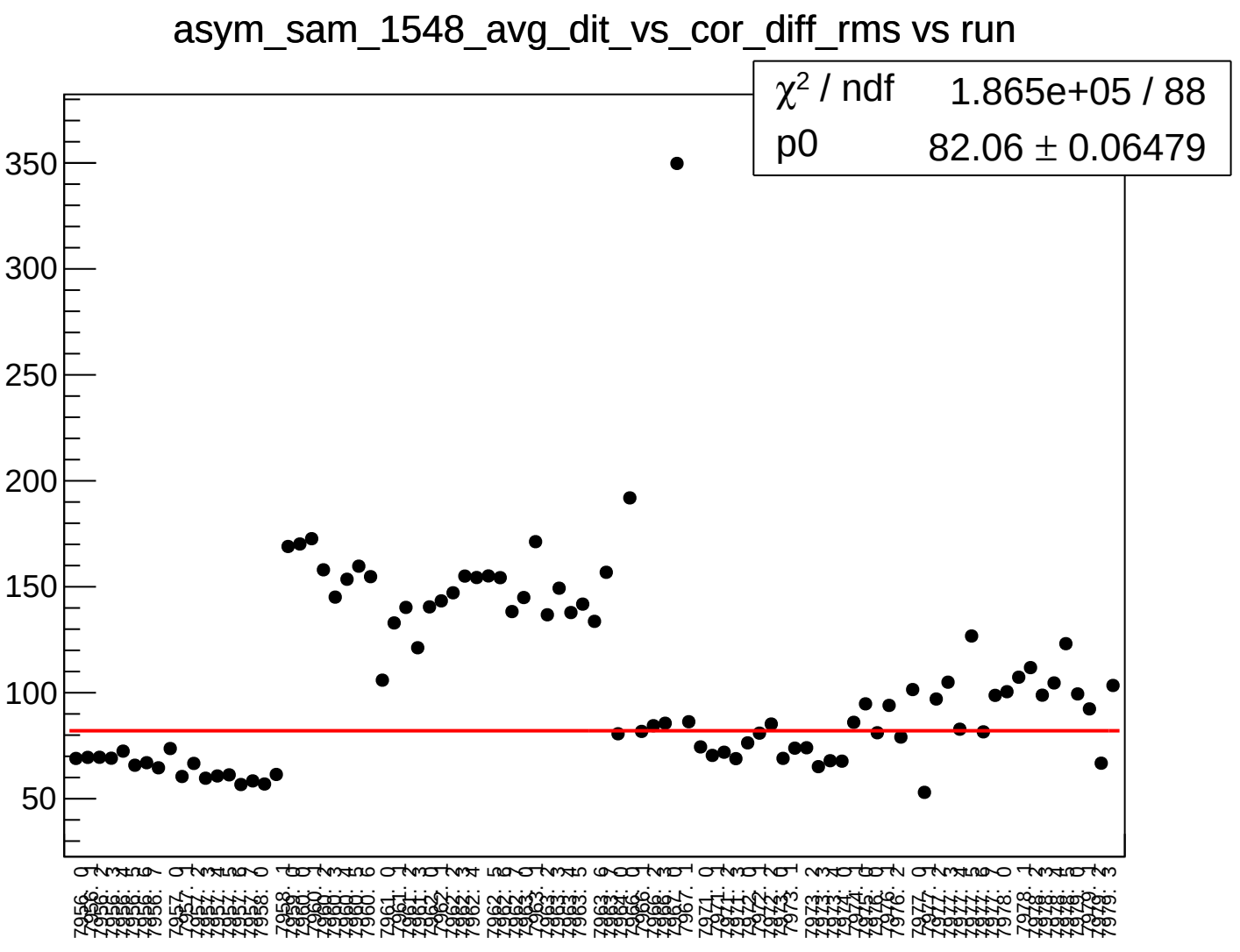

asym_sam_1548_avg_rms vs run
χ² / ndf 4547 / 88
p0 1516 ± 1.134
2000
1900
1800
1700
1600
1500
1400
1300

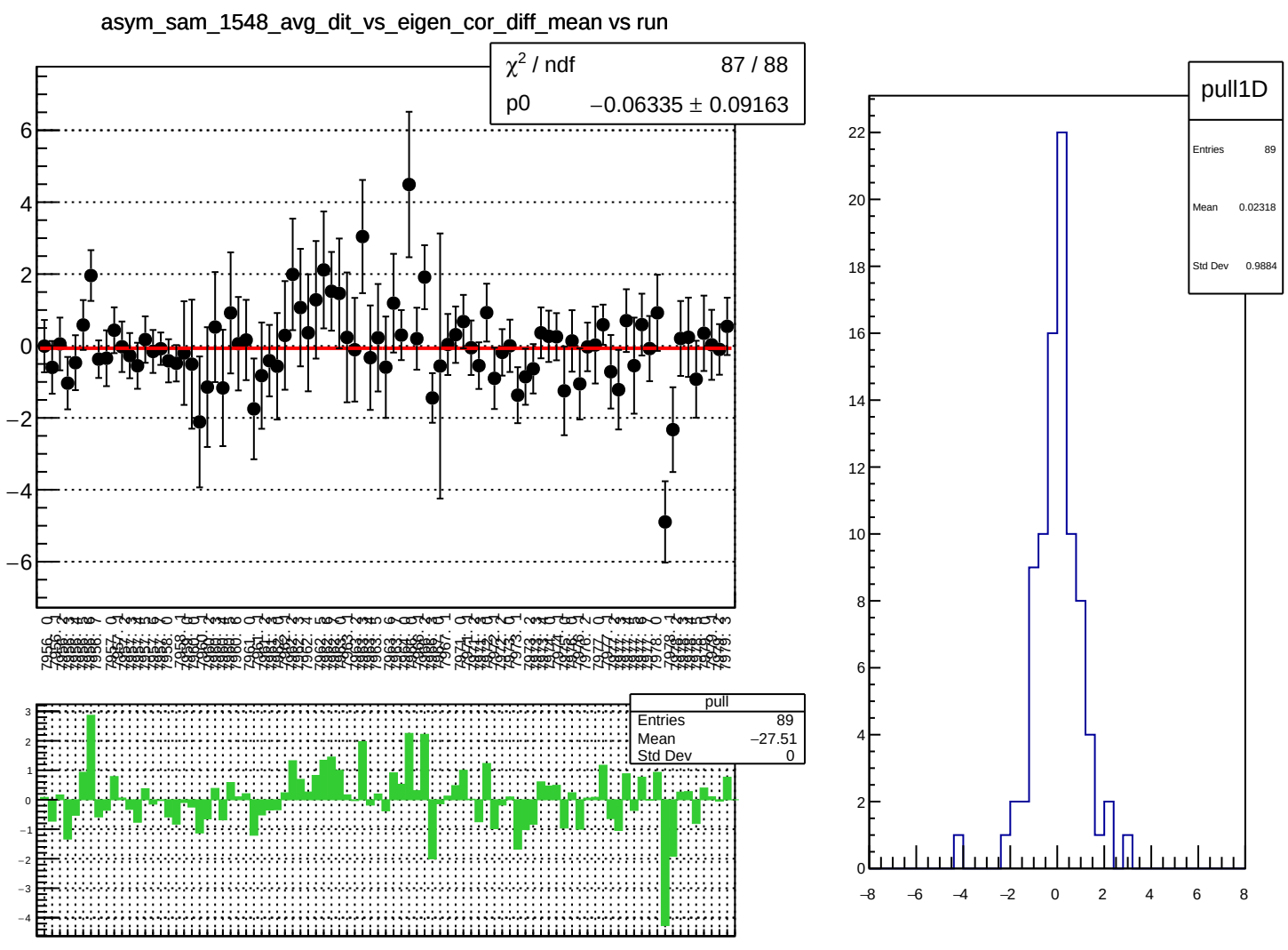

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 112 / 88
p0 4.393e−14 ± 2.386e−13
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 89
Mean 73.54
Std Dev 17.83
2
1
0
−1
−2
−3
−4

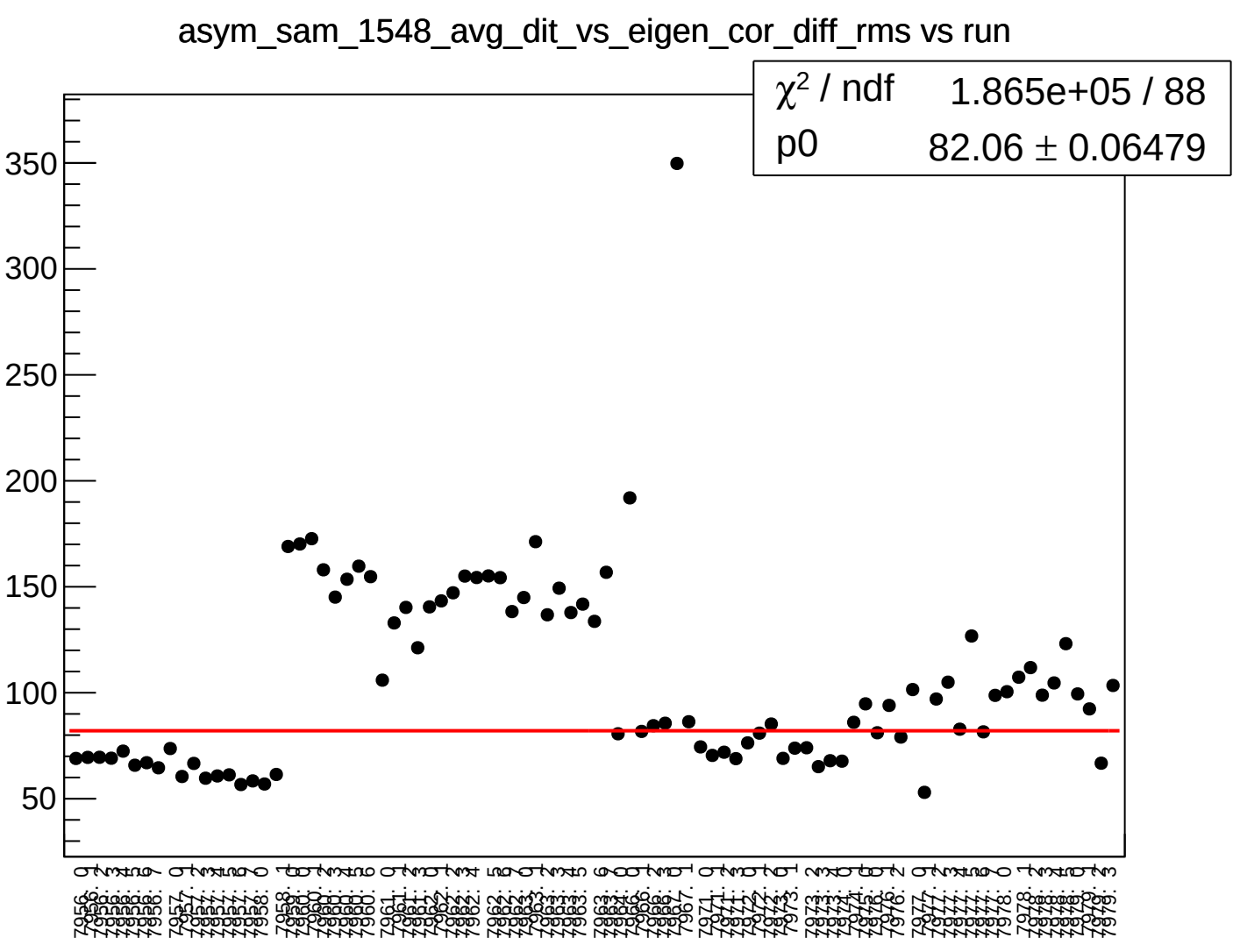

pull1D
Entries 89
Mean 0.05661
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

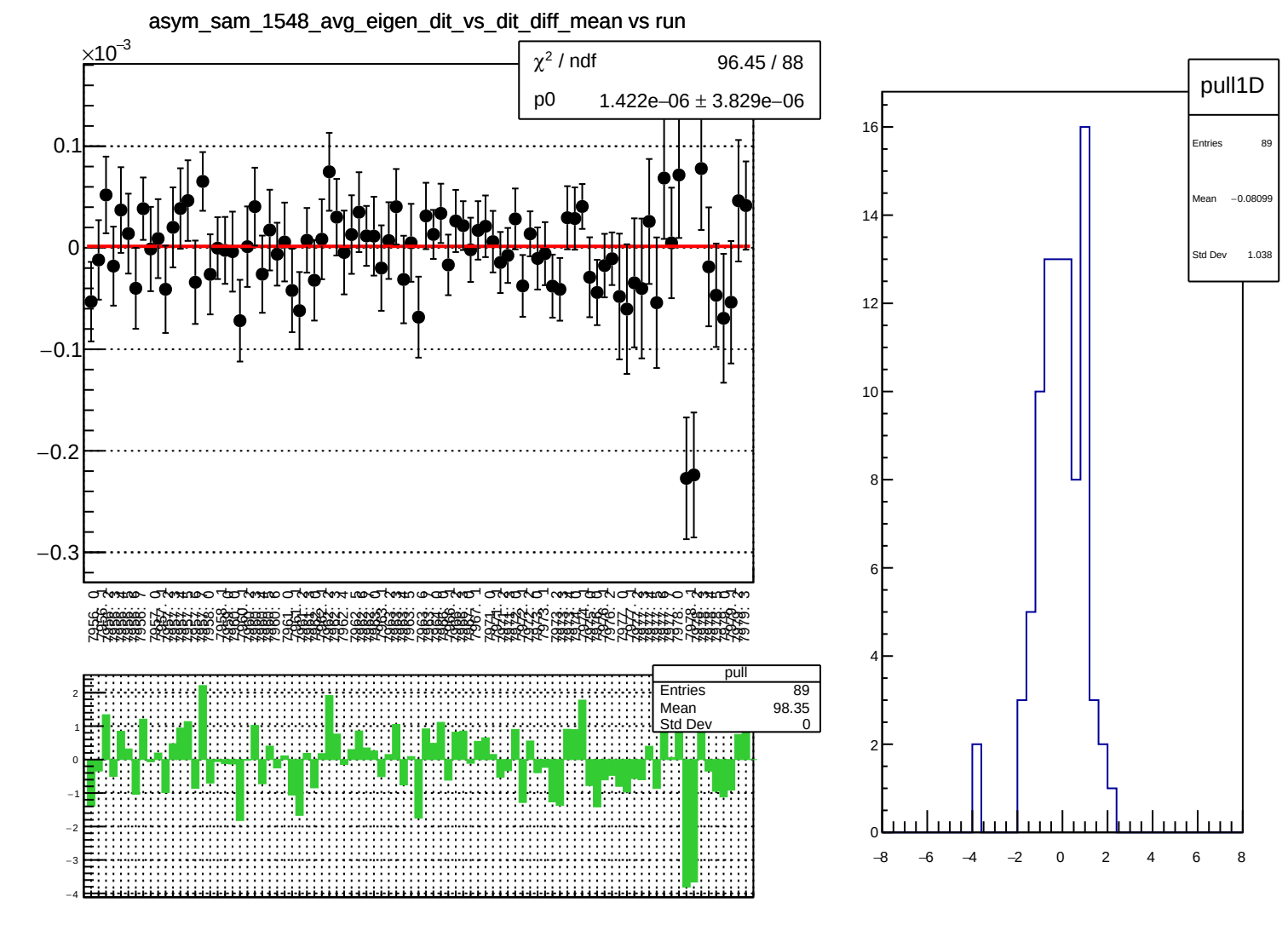

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.01e+06 / 88
p0 1.491e−10 ± 1.687e−13
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

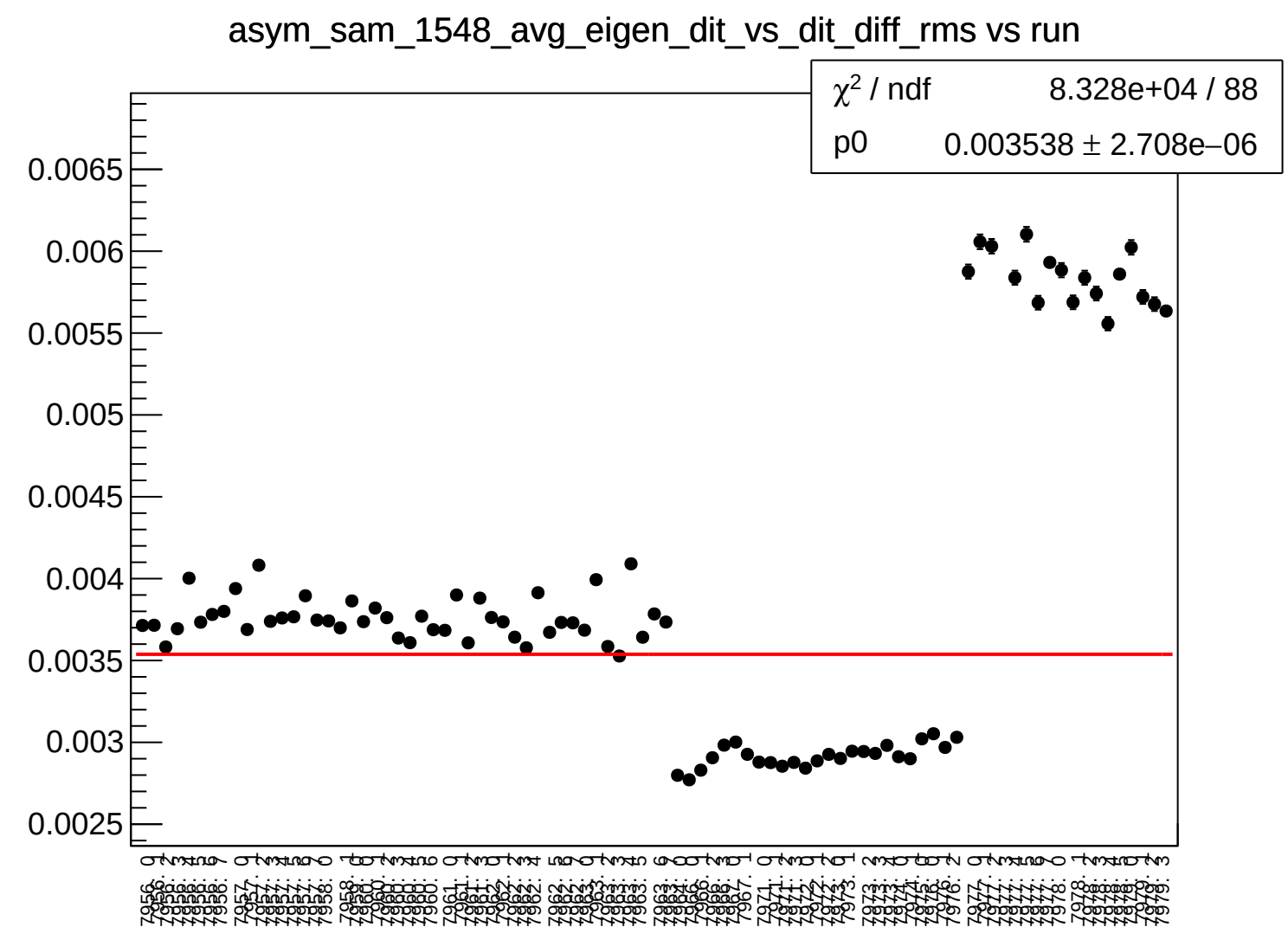

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87 / 88
p0 −0.06335 ± 0.09163
pull
Entries 89
Mean −27.51
Std Dev 0
pull1D
Entries 89
Mean 0.02318
Std Dev 0.9884

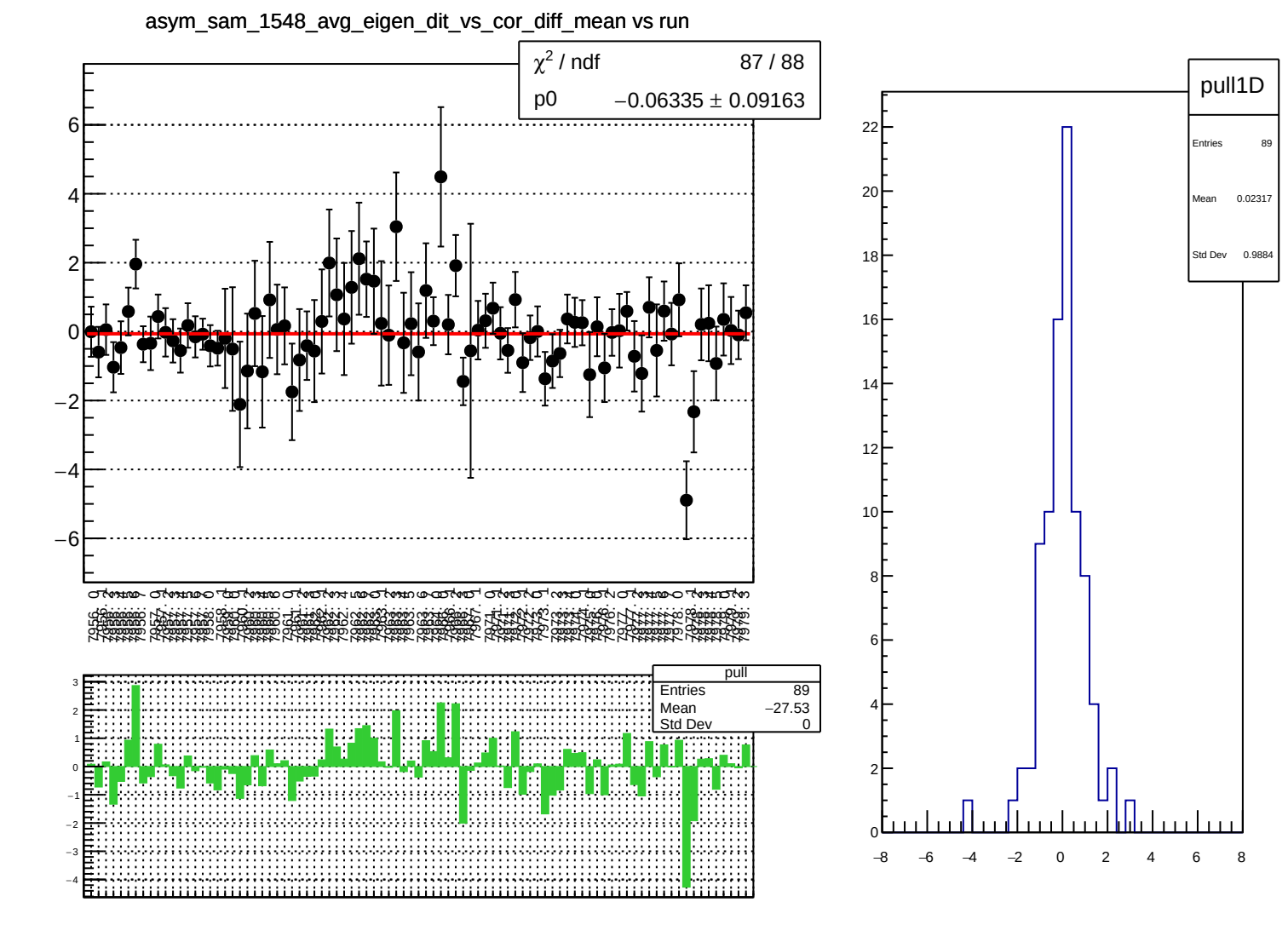

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.865e+05 / 88
p0 82.06 ± 0.06479
350
300
250
200
150
100
50

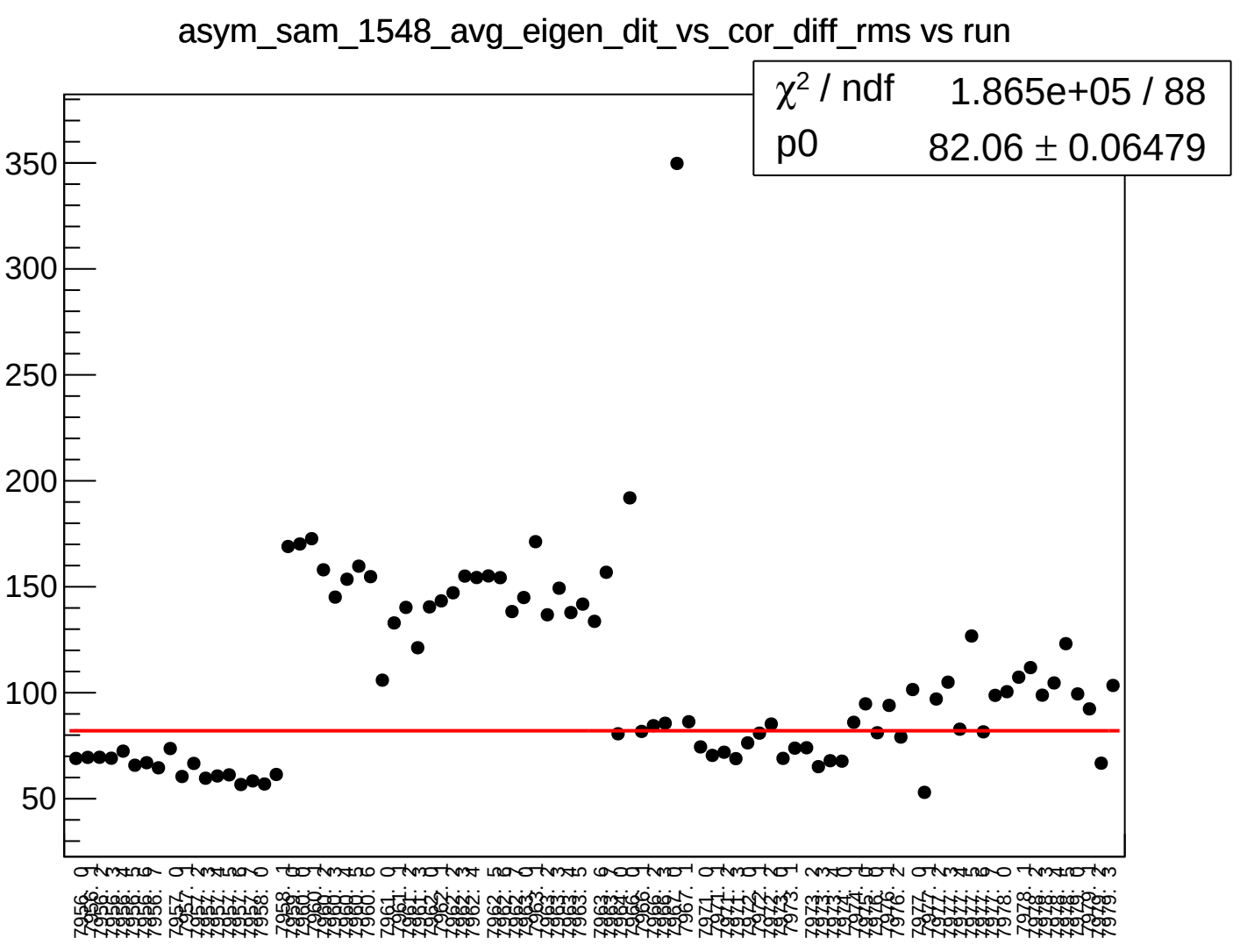

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87 / 88
p0 −0.06335 ± 0.09163
pull
Entries 89
Mean −27.51
Std Dev 0
pull1D
Entries 89
Mean 0.02318
Std Dev 0.9884

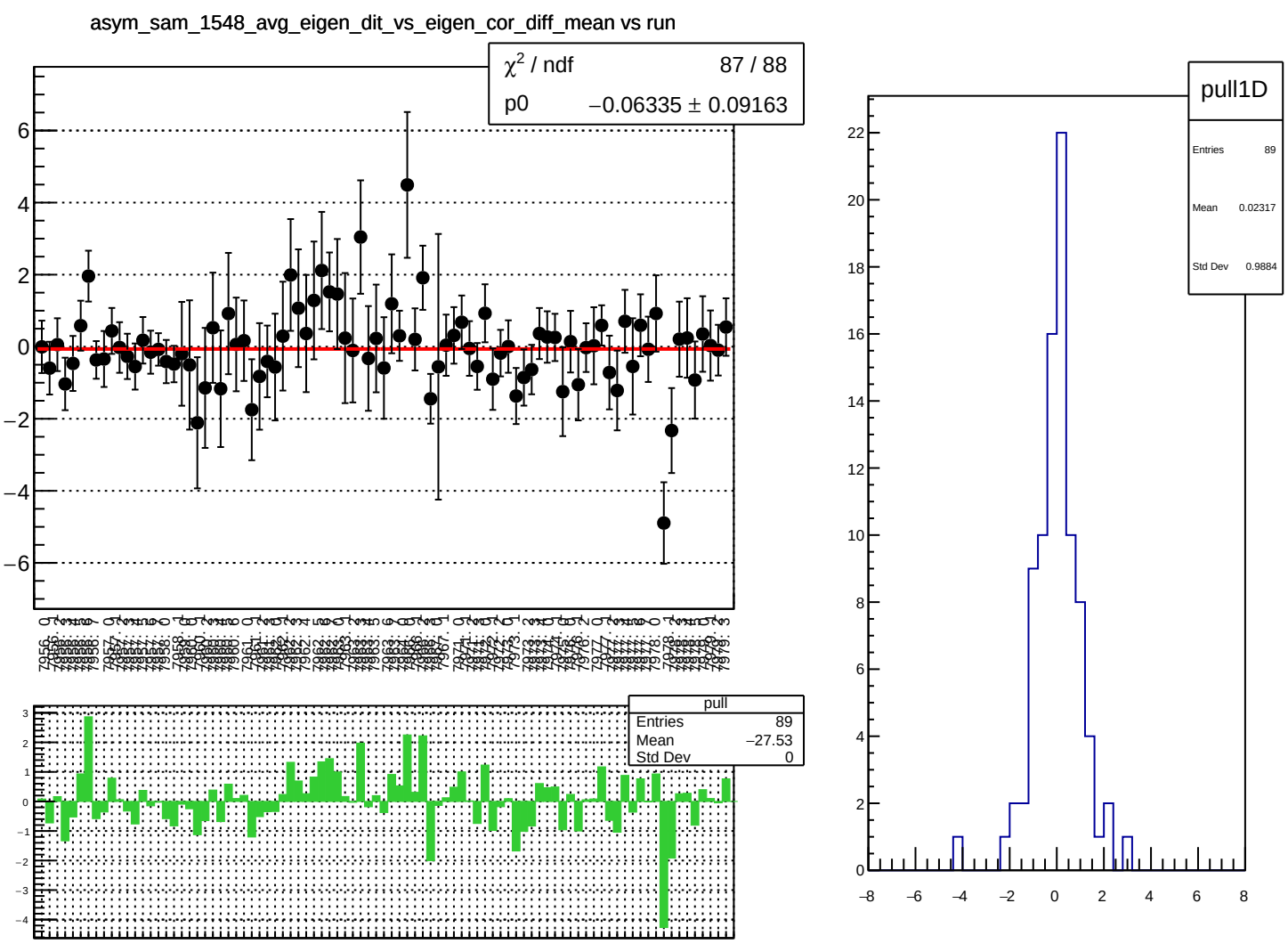

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.865e+05 / 88
p0 82.06 ± 0.06479
350
300
250
200
150
100
50

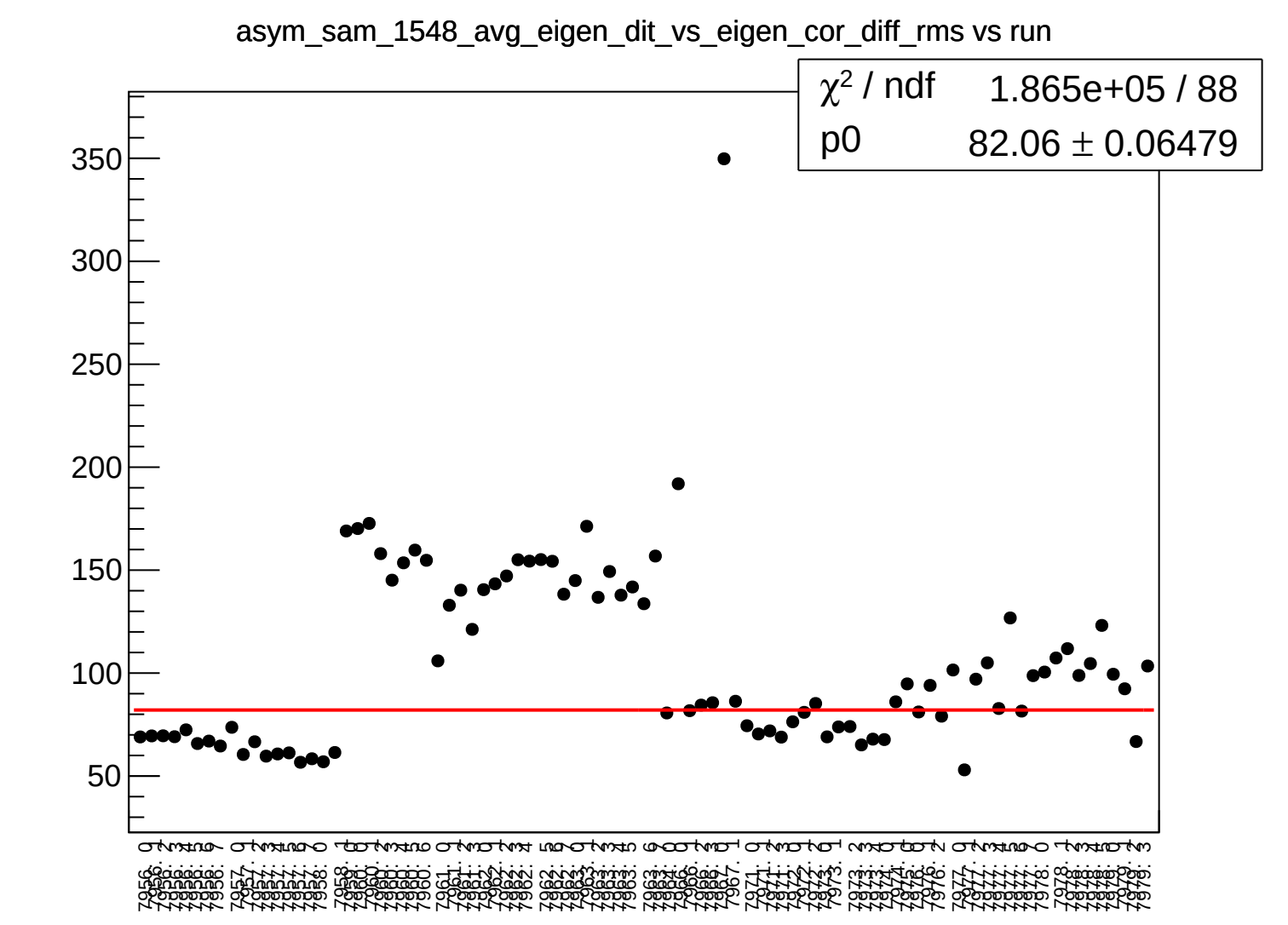

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.45 / 88
p0 1.422e−06 ± 3.829e−06
0.1
0
−0.1
−0.2
−0.3
pull
Entries 89
Mean 98.35
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean −0.08099
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

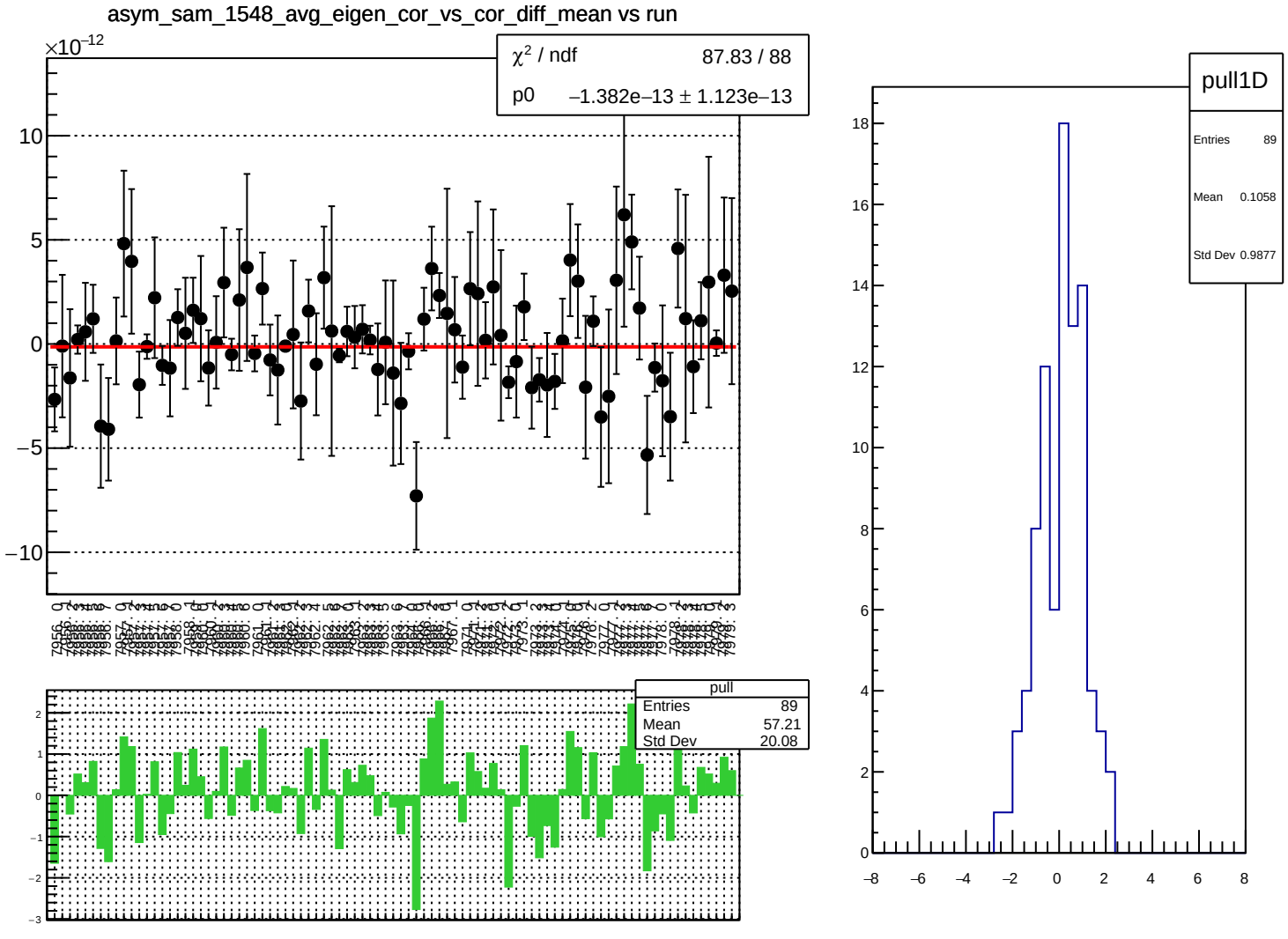

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.328e+04 / 88
p0 0.003538 ± 2.708e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

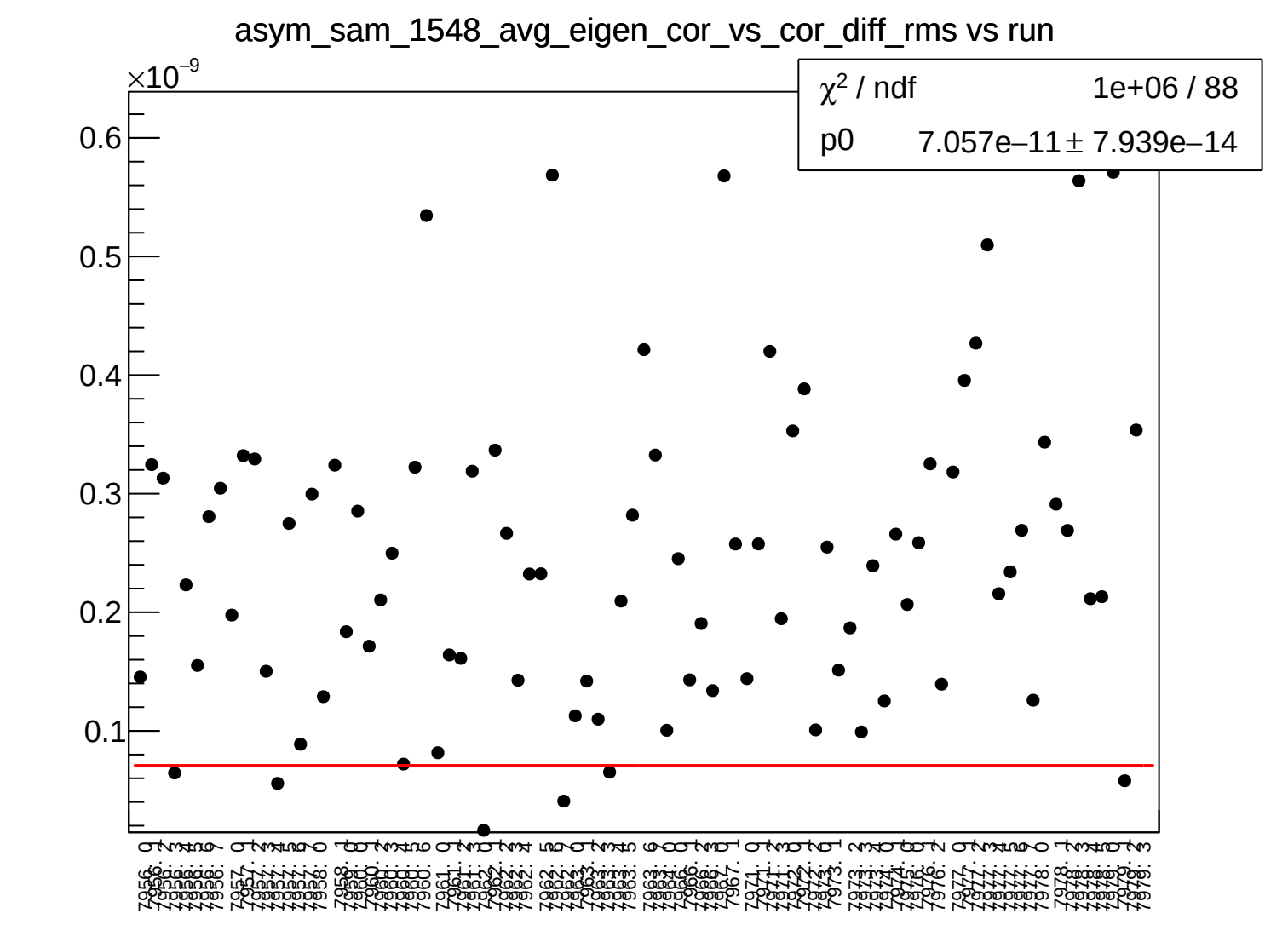

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87 / 88
p0 −0.06335 ± 0.09163
pull
Entries 89
Mean −27.53
Std Dev 0
pull1D
Entries 89
Mean 0.02317
Std Dev 0.9884

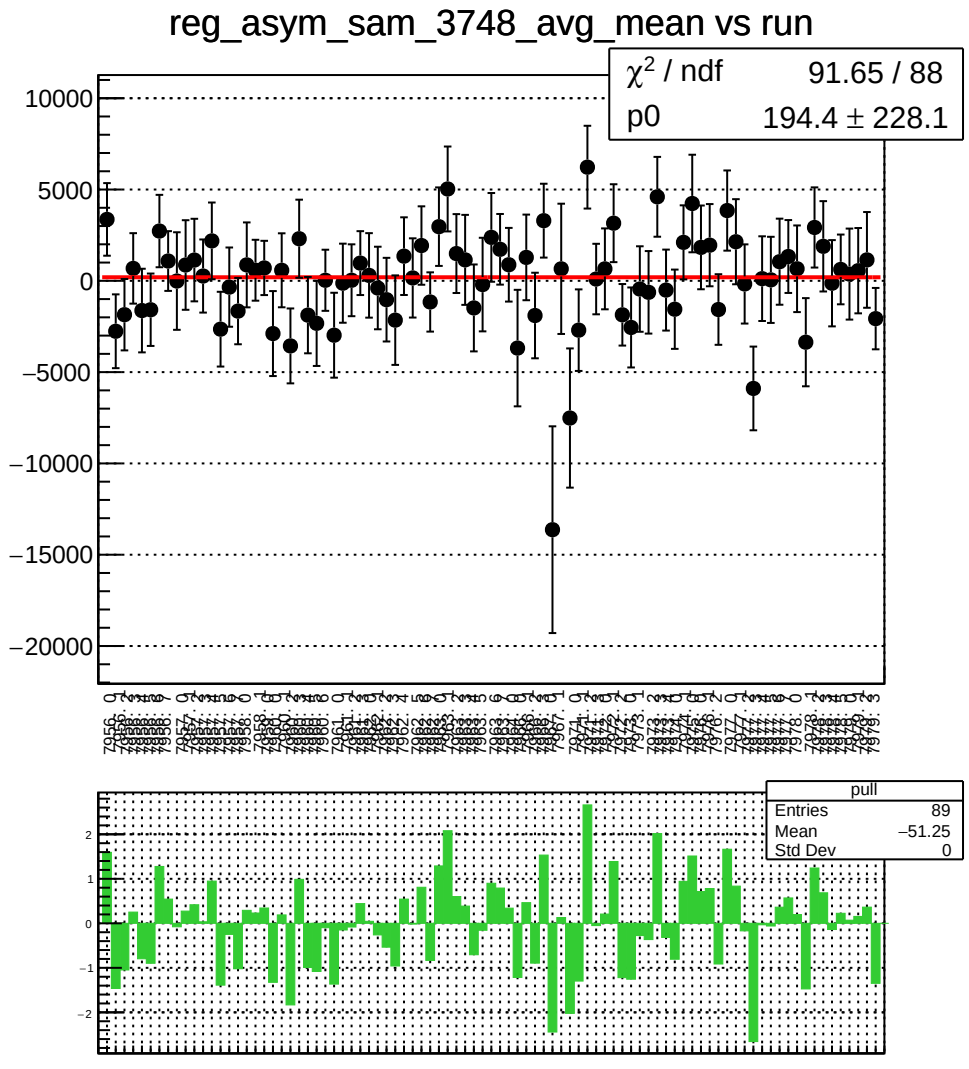

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.865e+05 / 88
p0 82.06 ± 0.06479
350
300
250
200
150
100
50

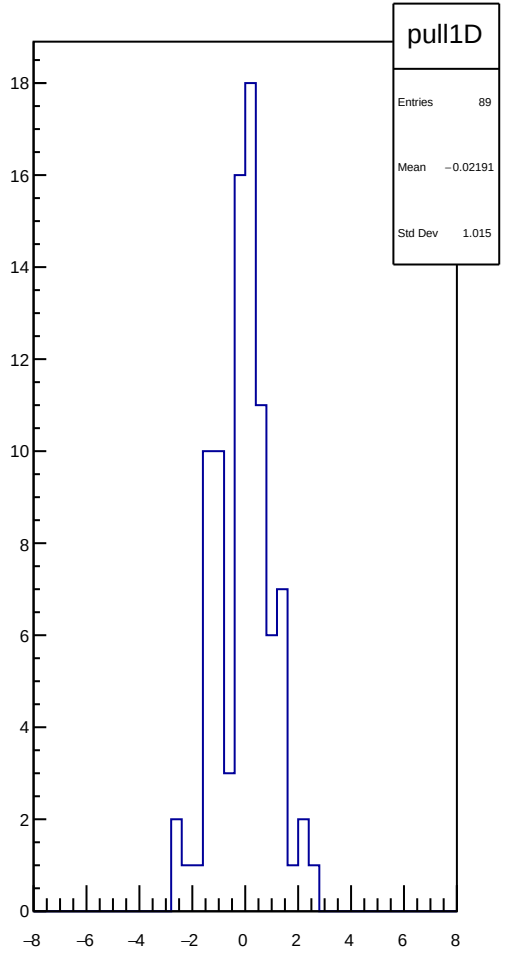

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87 / 88
p0 −0.06335 ± 0.09163
pull
Entries 89
Mean −27.53
Std Dev 0
pull1D
Entries 89
Mean 0.02317
Std Dev 0.9884

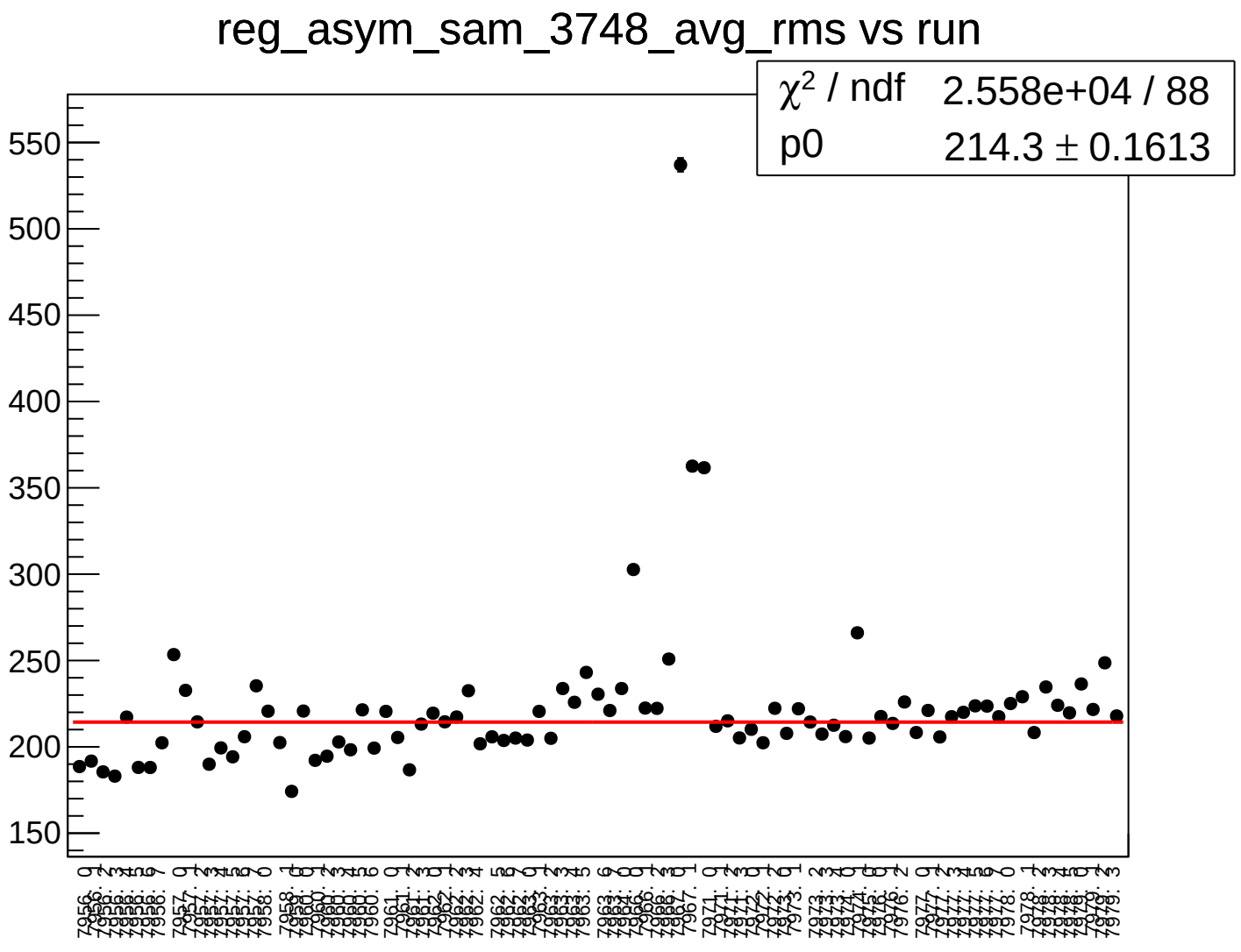

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.865e+05 / 88
p0 82.06 ± 0.06479
350
300
250
200
150
100
50

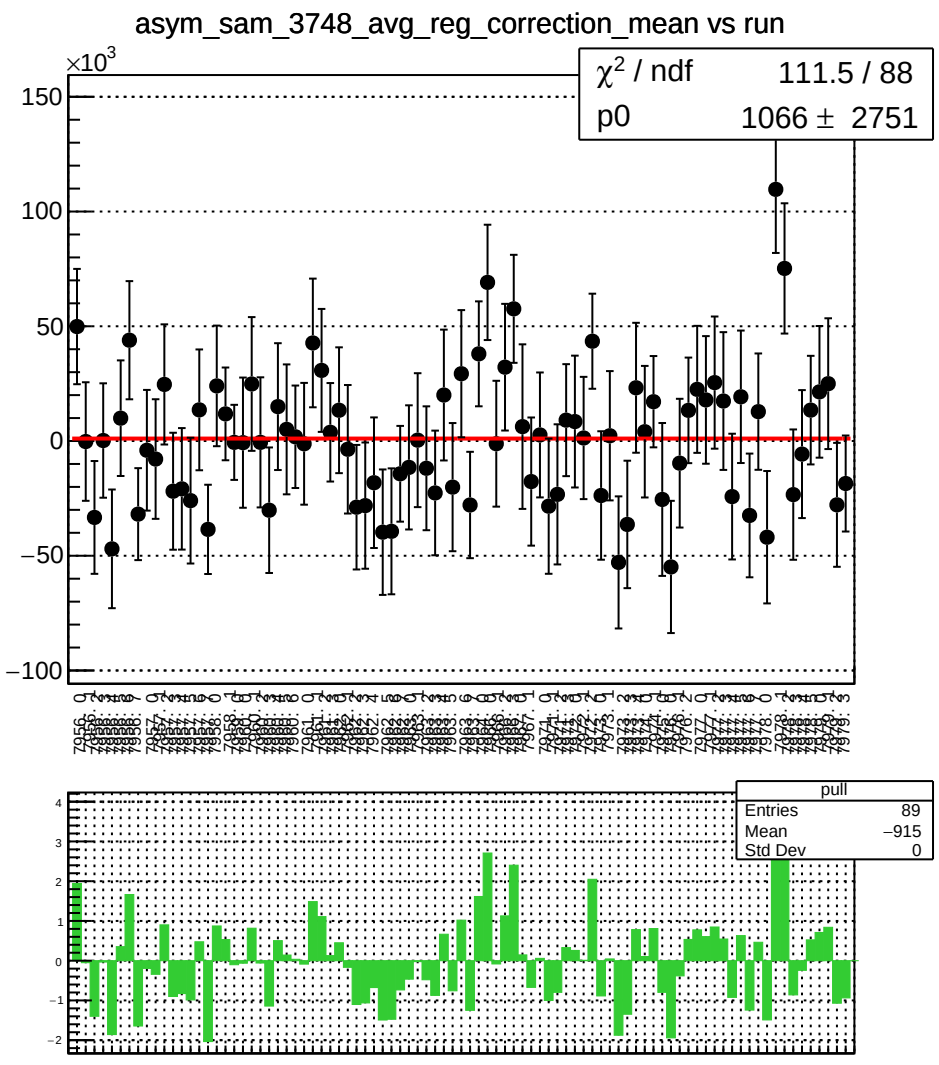

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.83 / 88
p0 −1.382e−13 ± 1.123e−13
pull
Entries 89
Mean 57.21
Std Dev 20.08
pull1D
Entries 89
Mean 0.1058
Std Dev 0.9877

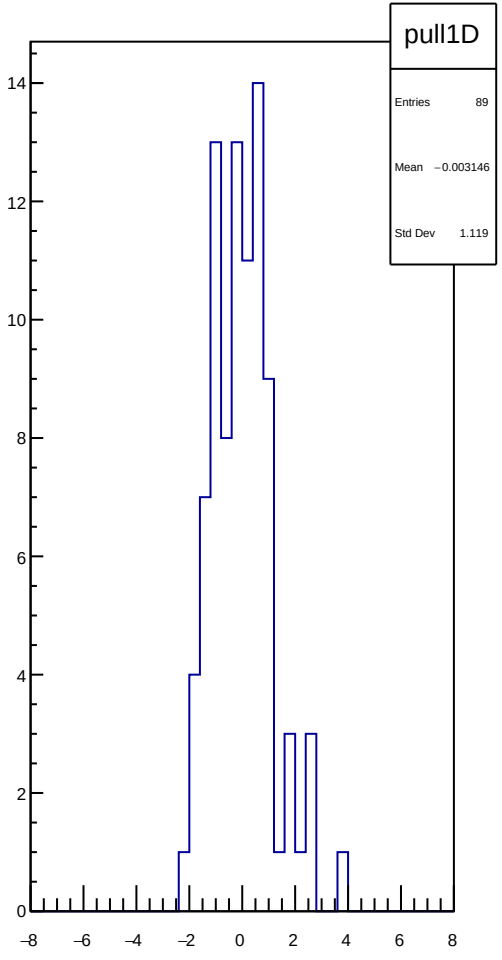

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1e+06 / 88
p0 7.057e−11 ± 7.939e−14
0.6
0.5
0.4
0.3
0.2
0.1

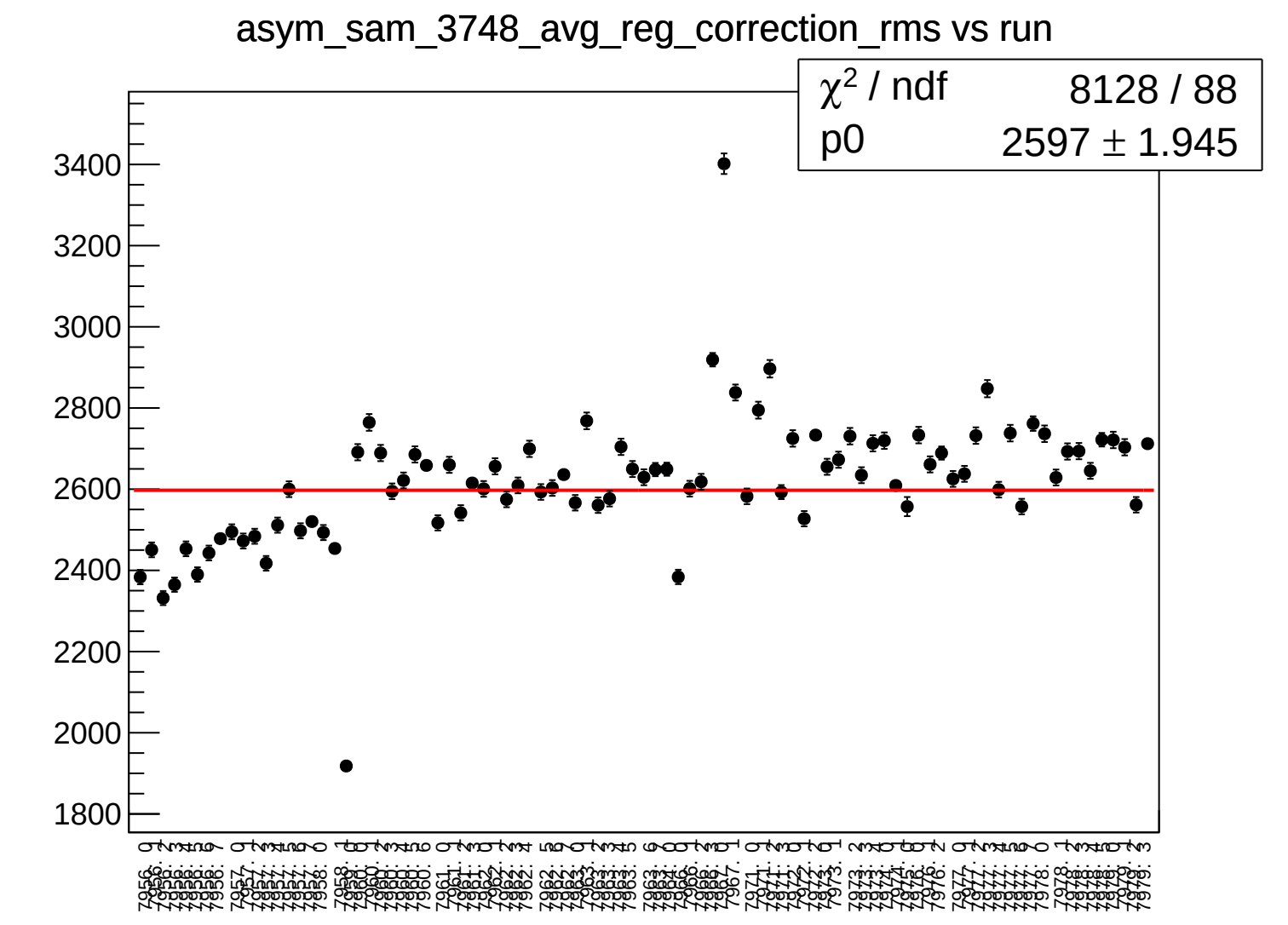

reg_asym_sam_3748_avg_mean vs run
$\chi^2$ / ndf 91.65 / 88
p0 194.4 ± 228.1
pull
Entries 89
Mean −51.25
Std Dev 0

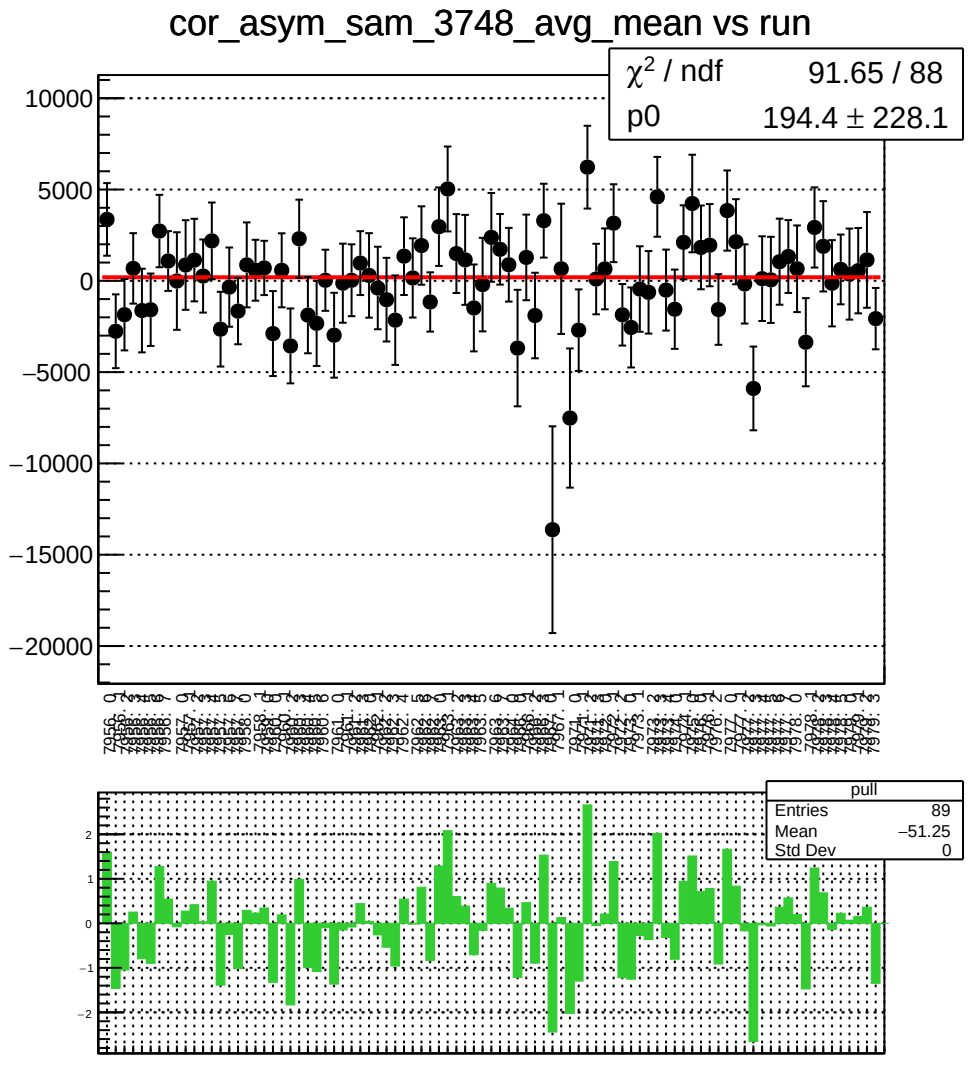

pull1D
Entries 89
Mean −0.02191
Std Dev 1.015

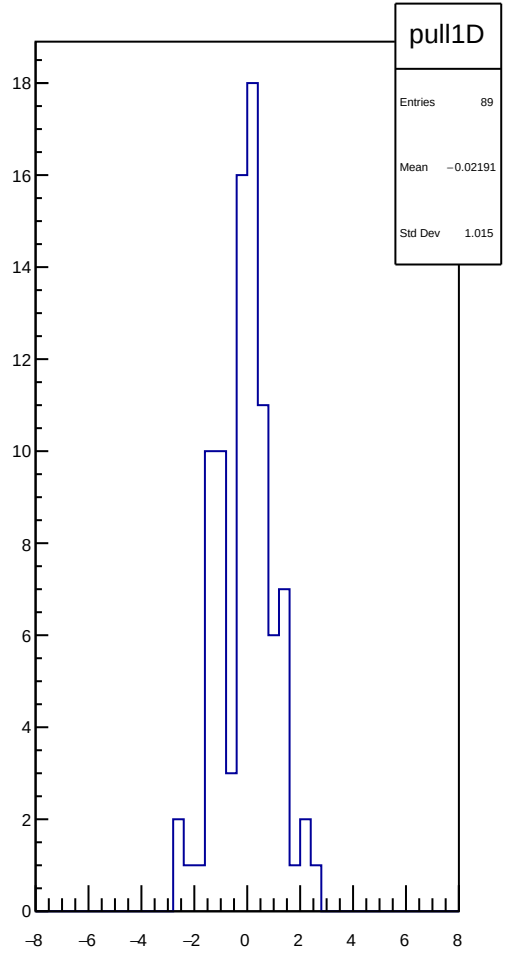

reg_asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 2.558e+04 / 88
p0 214.3 ± 0.1613
550
500
450
400
350
300
250
200
150

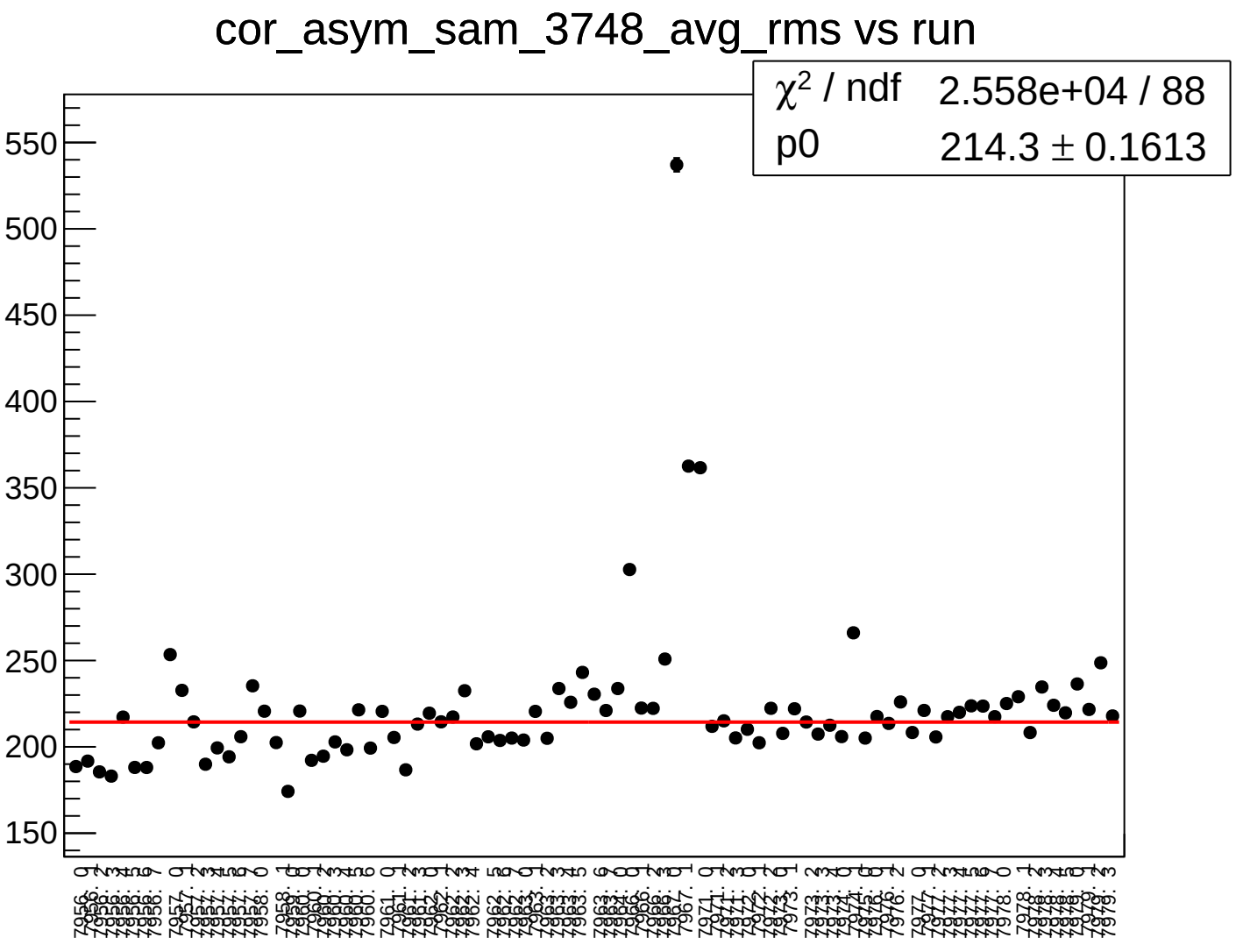

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ² / ndf 111.5 / 88
p0 1066 ± 2751
150
100
50
0
−50
−100
pull
Entries 89
Mean −915
Std Dev 0
4
3
2
1
0
−1
−2

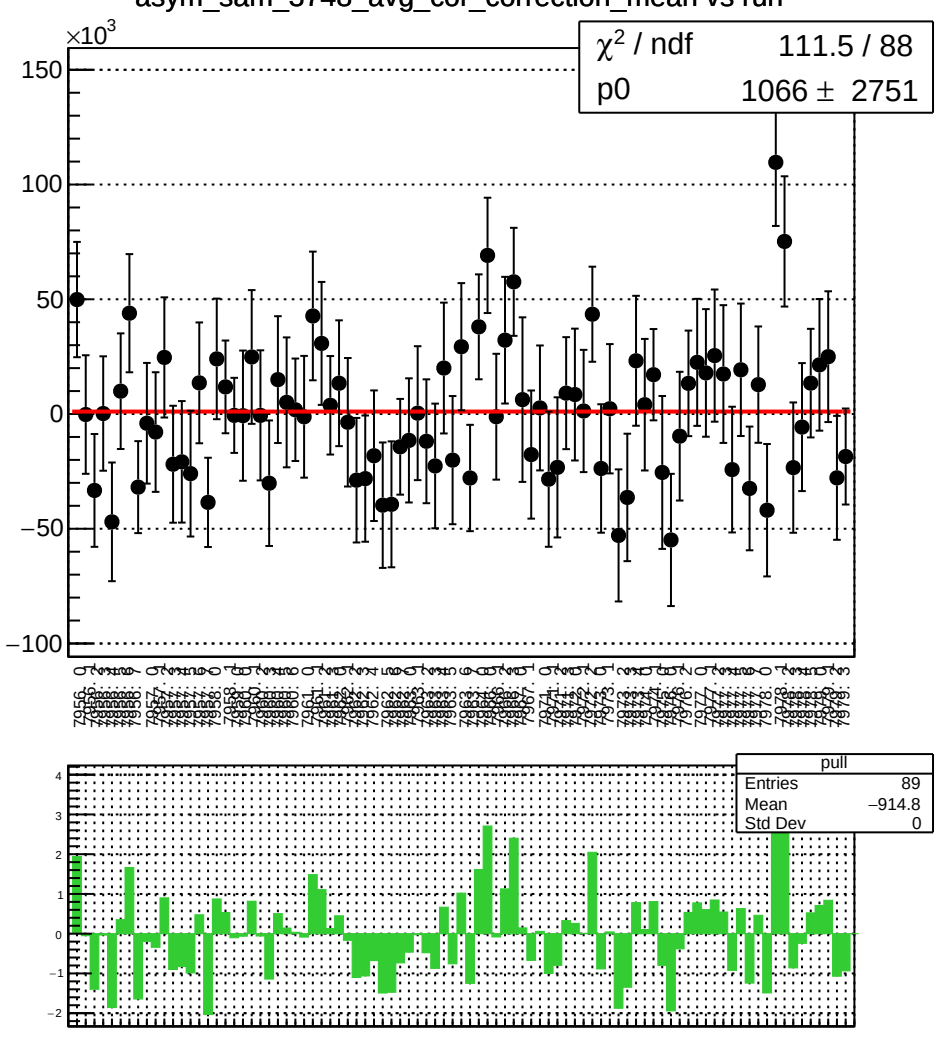

pull1D
Entries 89
Mean −0.003146
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

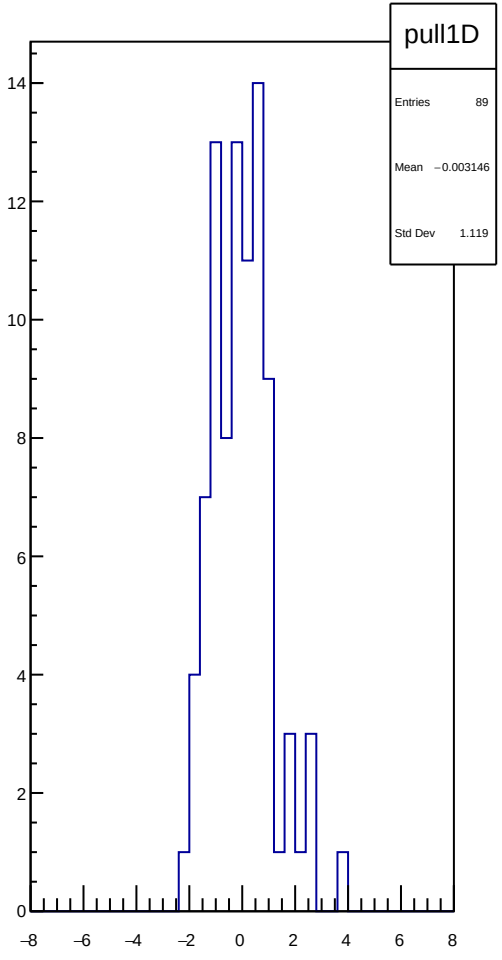

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 8128 / 88
p0 2597 ± 1.945
3400
3200
3000
2800
2600
2400
2200
2000
1800

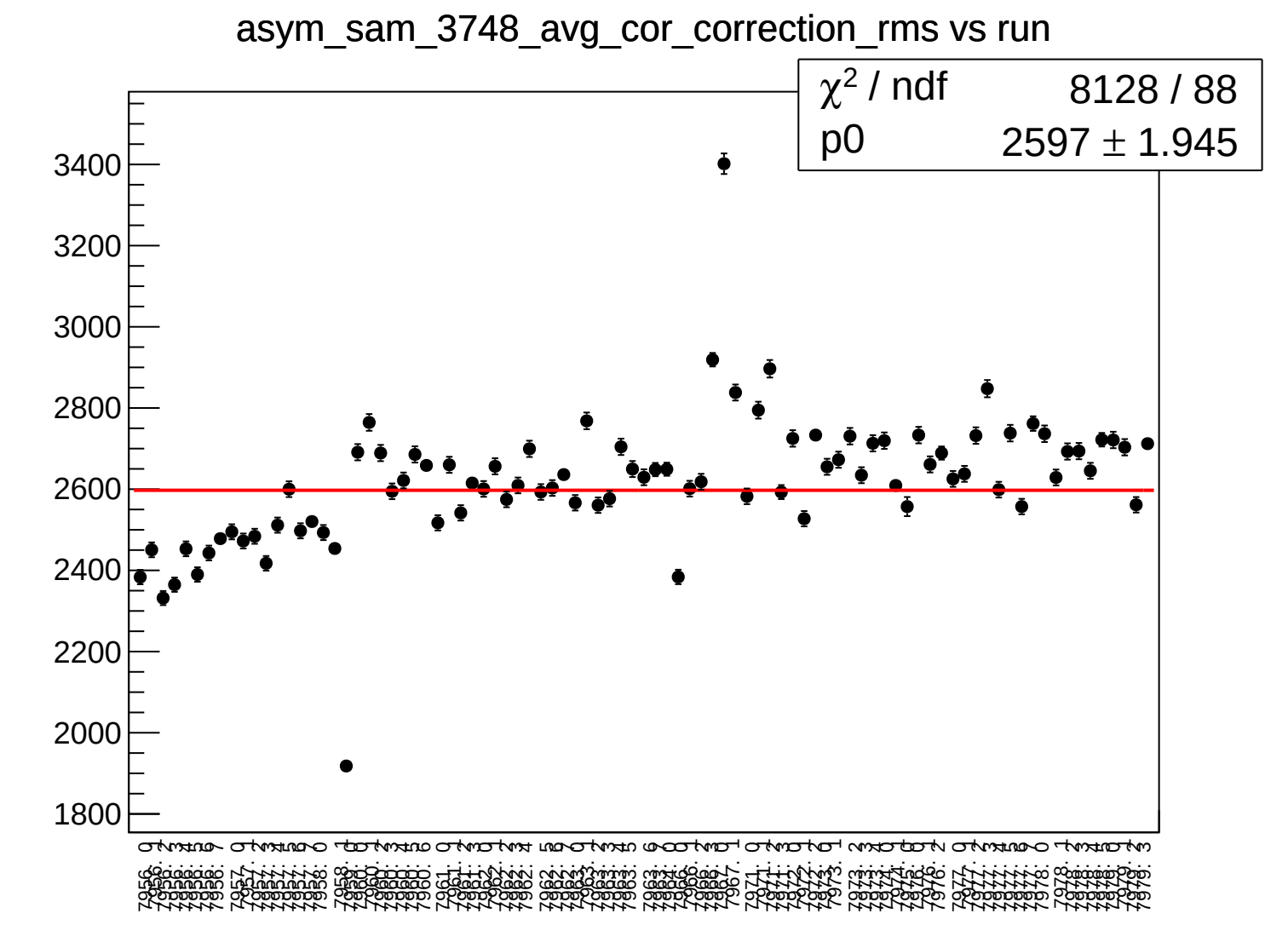

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 91.65 / 88
p0 194.4 ± 228.1
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −51.25
Std Dev 0
2
1
0
−1
−2

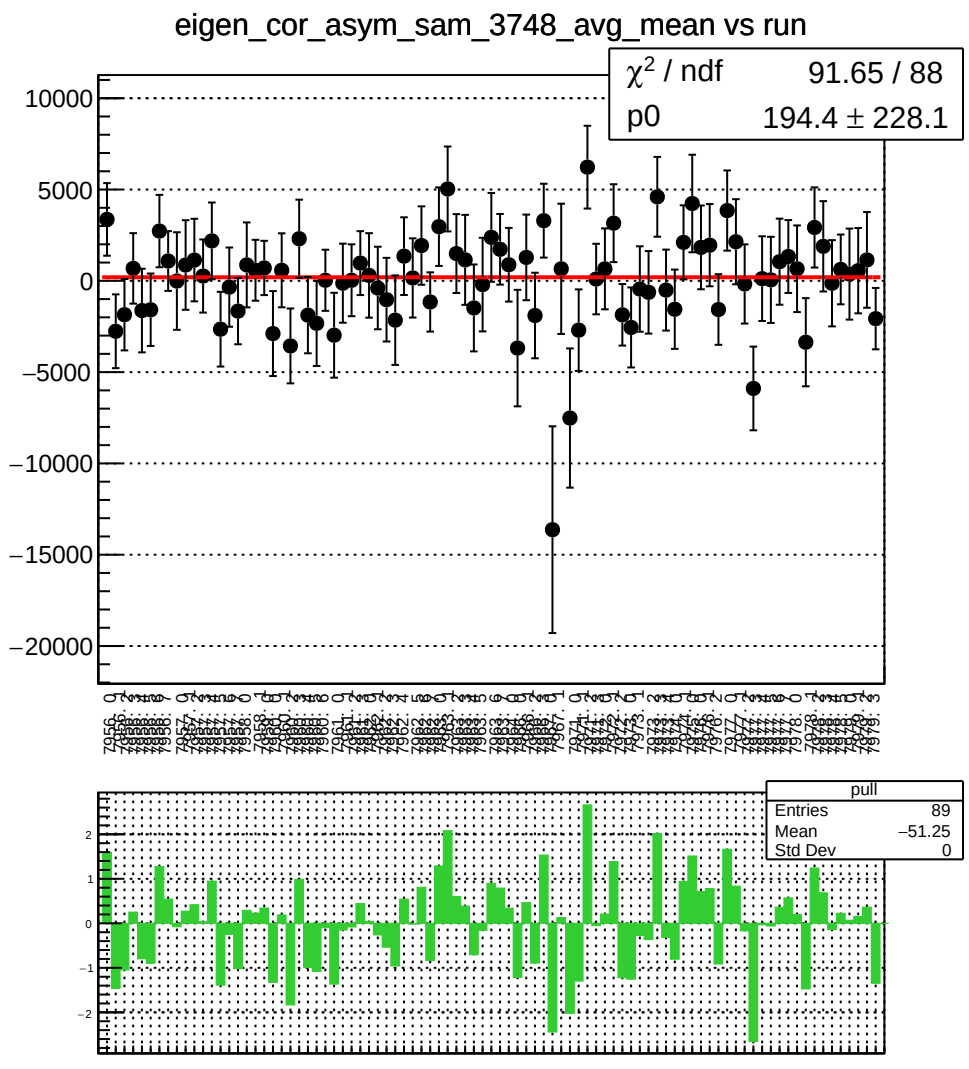

pull1D
Entries 89
Mean −0.02191
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

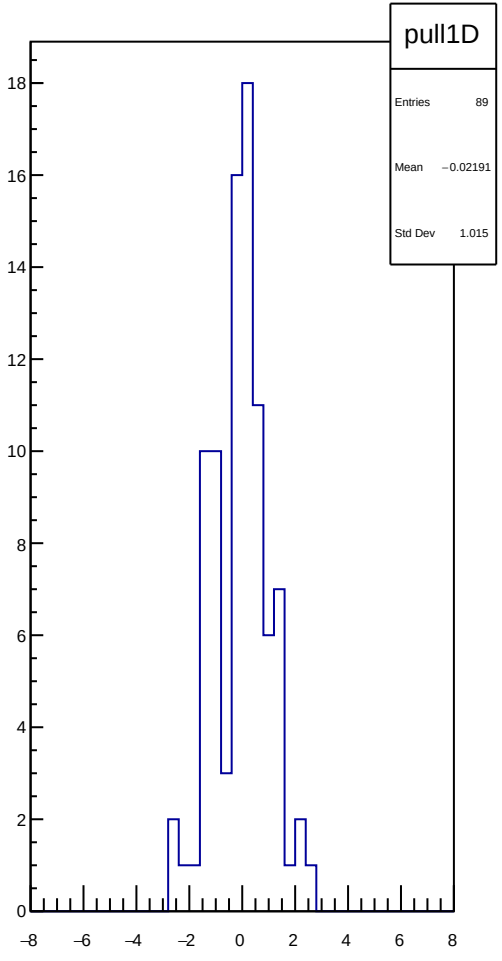

cor_asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 2.558e+04 / 88
p0 214.3 ± 0.1613
550
500
450
400
350
300
250
200
150

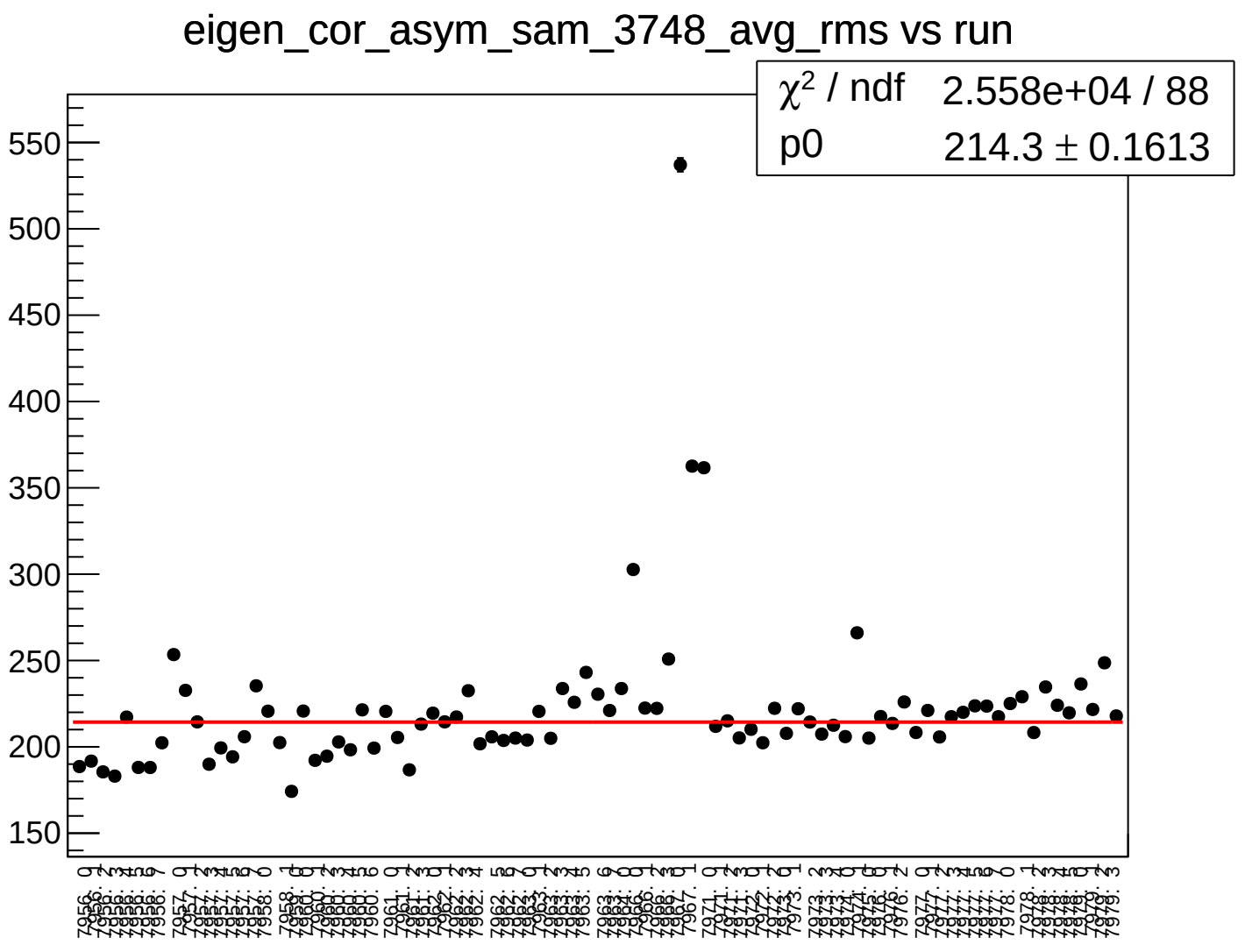

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 111.5 / 88
p0 1066 ± 2751
150
100
50
0
−50
−100
pull
Entries 89
Mean −914.8
Std Dev 0
4
3
2
1
0
−1
−2

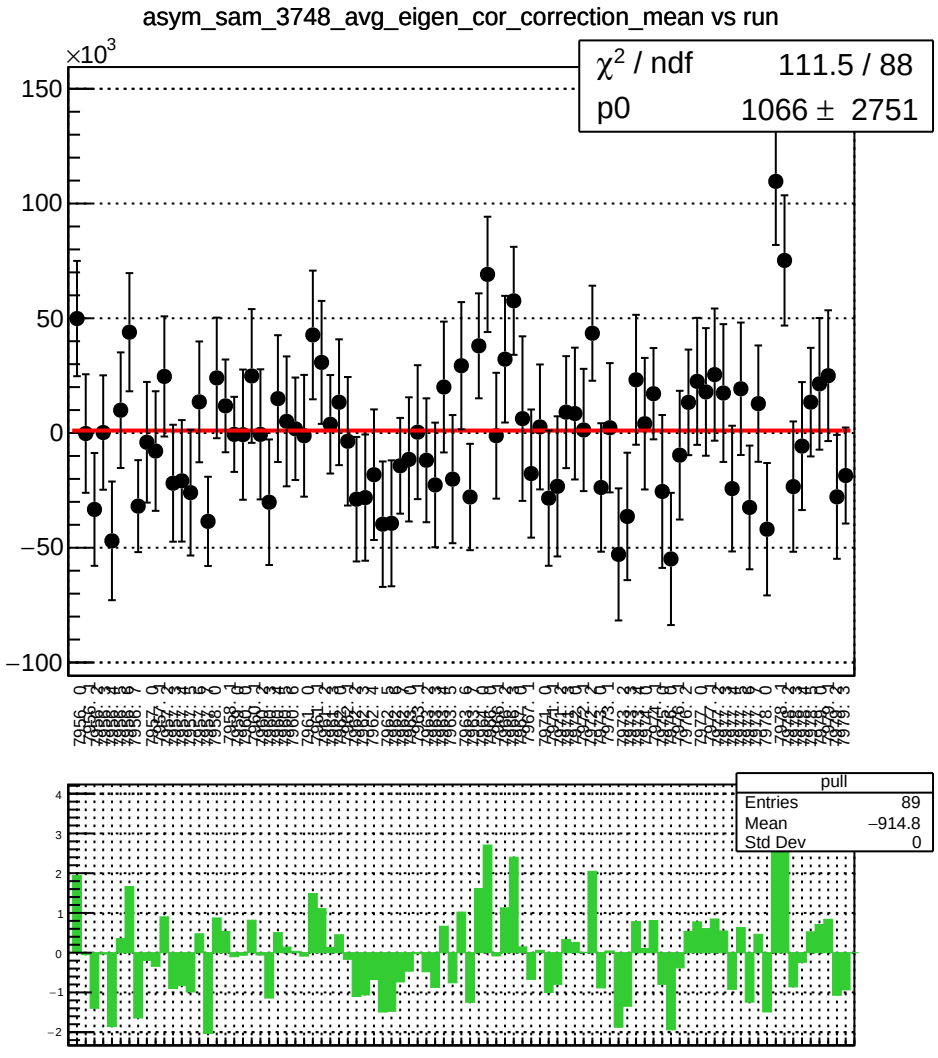

pull1D
Entries 89
Mean −0.003146
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

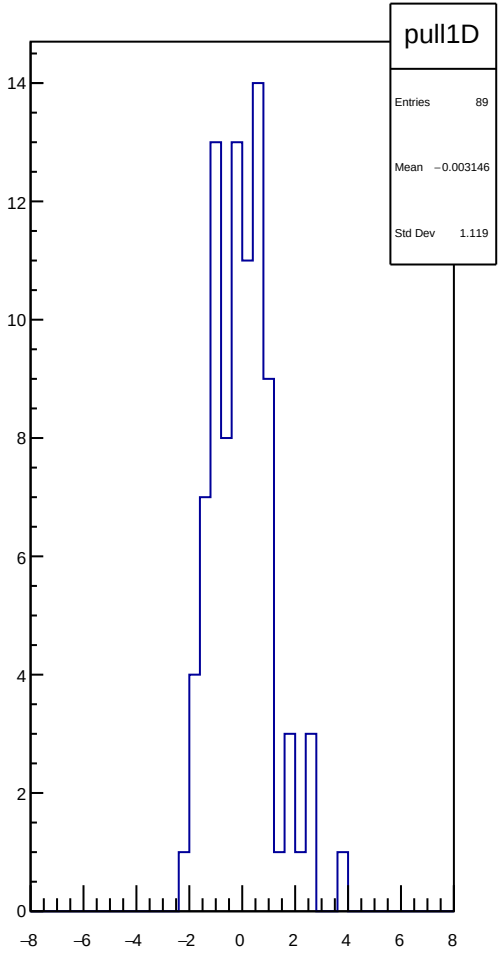

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 8128 / 88
p0 2597 ± 1.945
3400
3200
3000
2800
2600
2400
2200
2000
1800

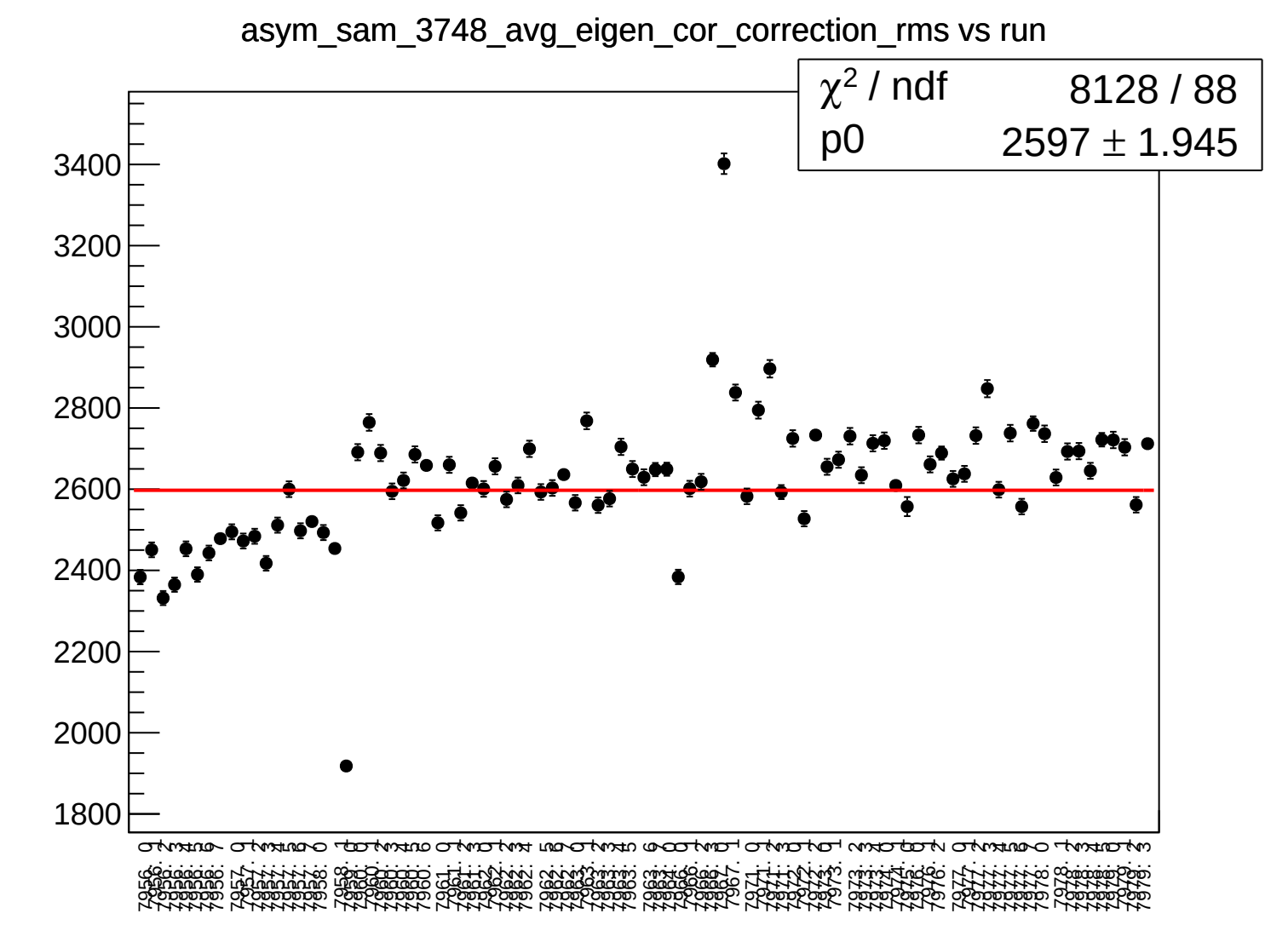

eigen_cor_asym_sam_3748_avg_mean vs run
$\chi^2$ / ndf 91.65 / 88
p0 194.4 ± 228.1
pull
Entries 89
Mean −51.25
Std Dev 0

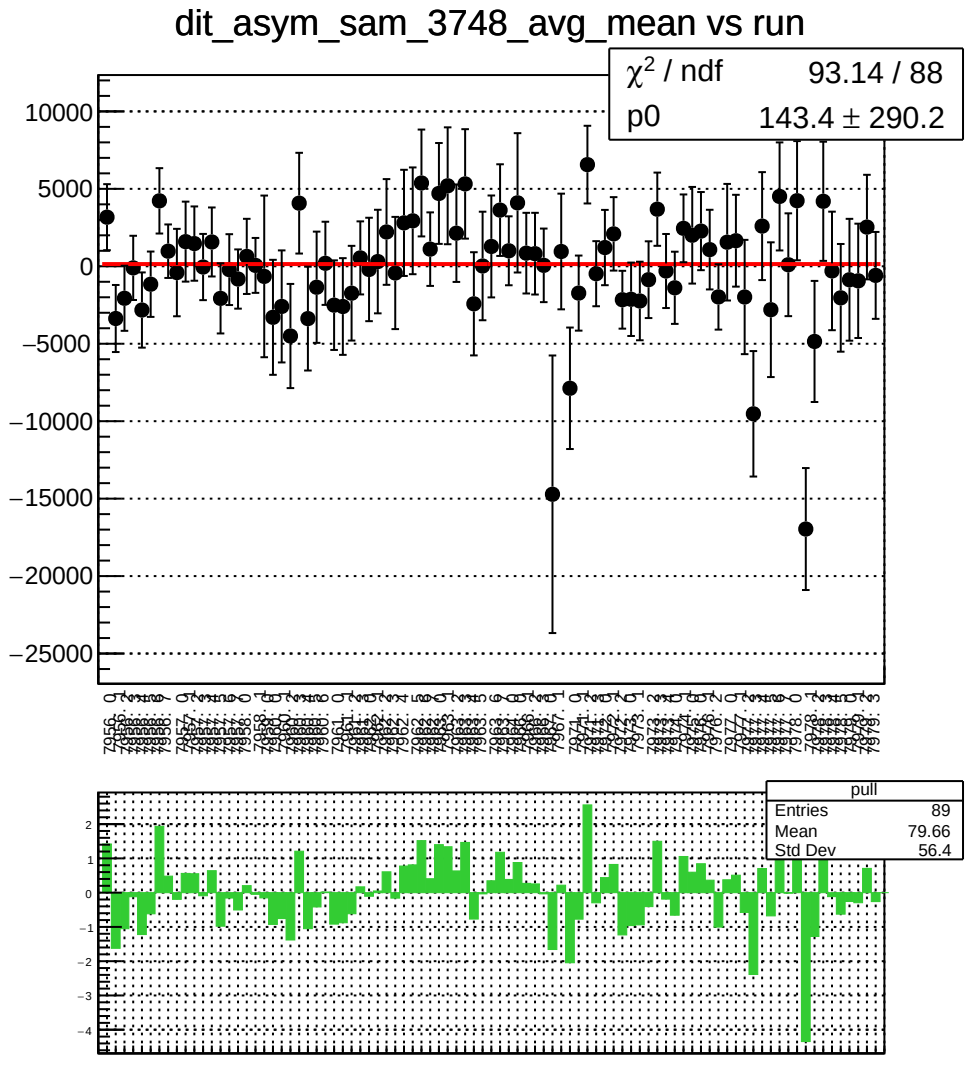

pull1D
Entries 89
Mean −0.02191
Std Dev 1.015

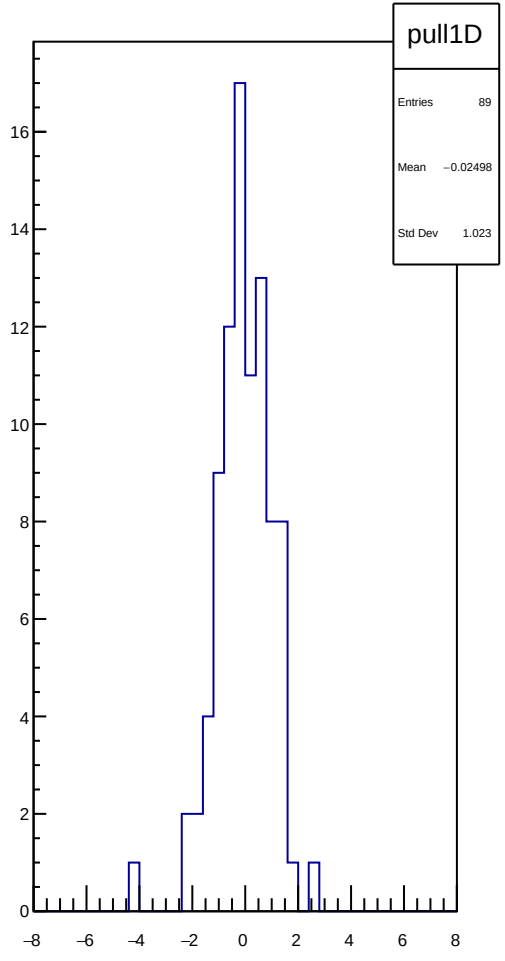

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.558e+04 / 88
p0 214.3 ± 0.1613
550
500
450
400
350
300
250
200
150

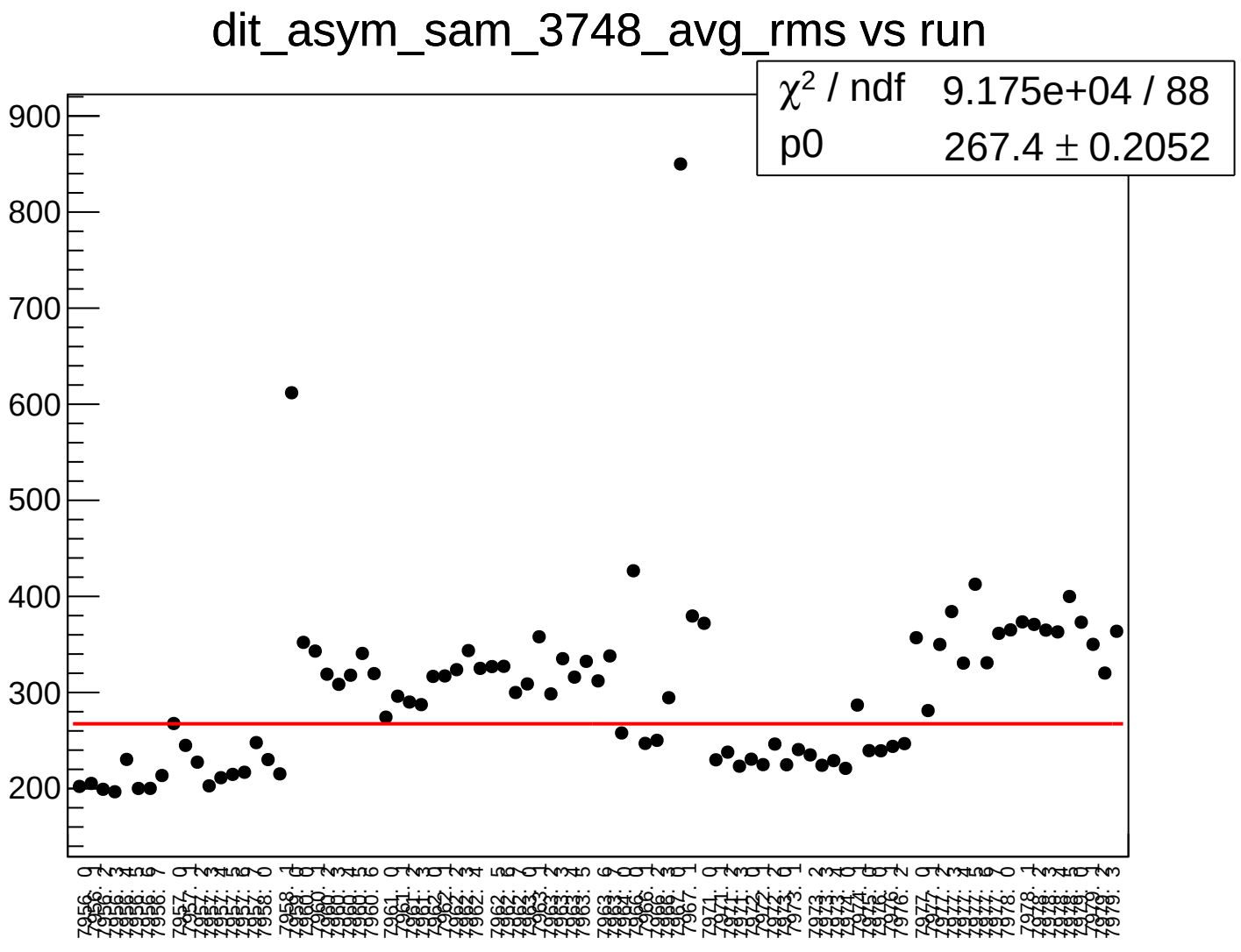

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 111.5 / 88
p0 1066 ± 2751
150
100
50
0
−50
−100
pull
Entries 89
Mean −914.8
Std Dev 0
4
3
2
1
0
−1
−2

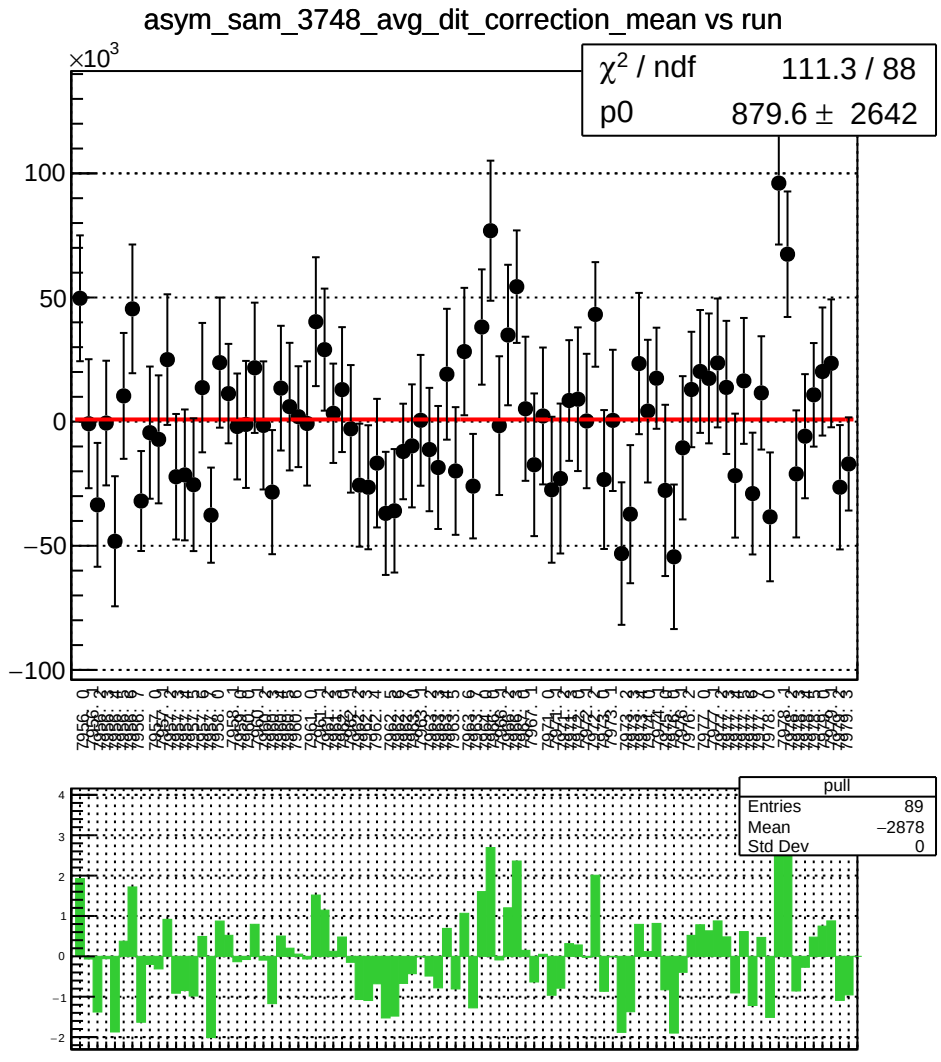

pull1D
Entries 89
Mean −0.003146
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

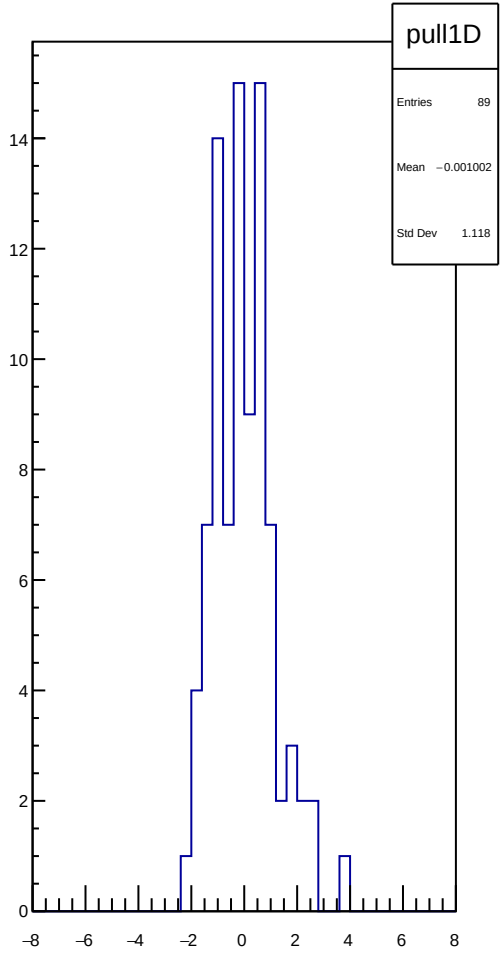

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 8128 / 88
p0 2597 ± 1.945
3400
3200
3000
2800
2600
2400
2200
2000
1800

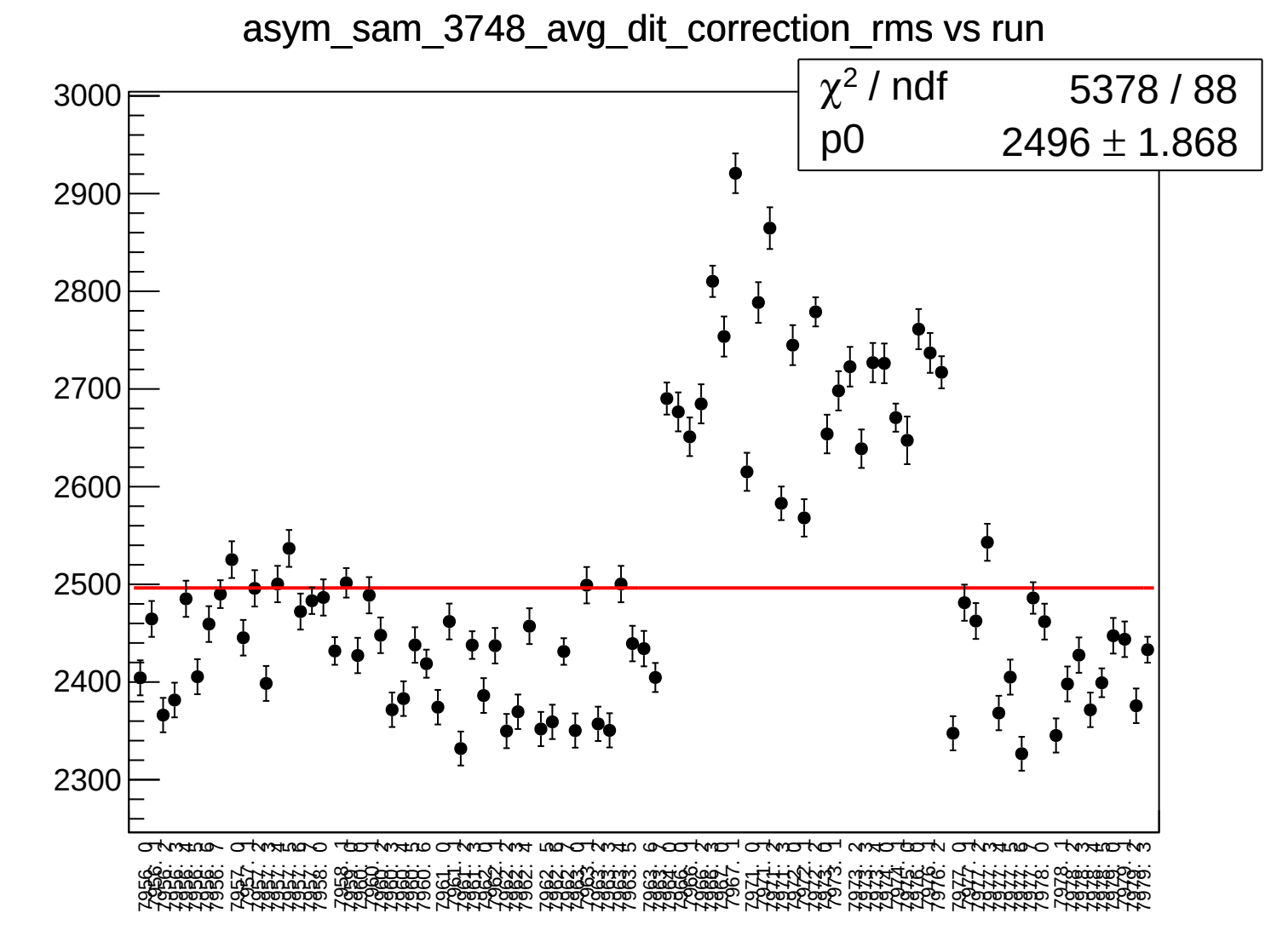

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 93.14 / 88
p0 143.4 ± 290.2
pull
Entries 89
Mean 79.66
Std Dev 56.4

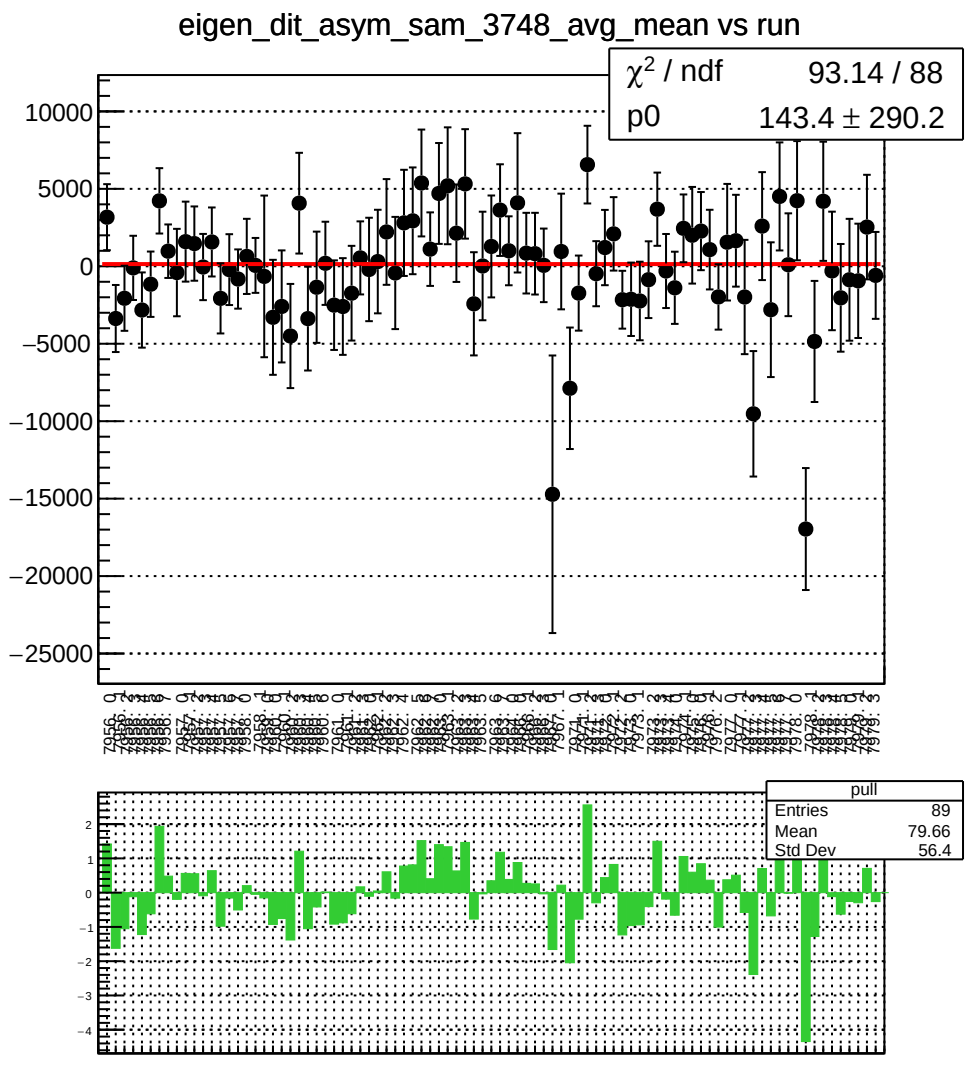

pull1D
Entries 89
Mean −0.02498
Std Dev 1.023

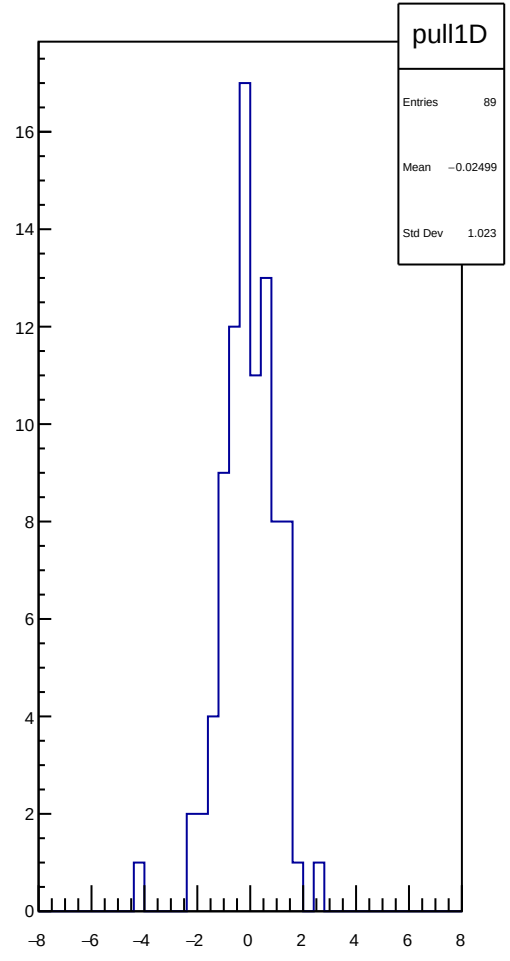

dit_asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 9.175e+04 / 88
p0 267.4 ± 0.2052
900
800
700
600
500
400
300
200

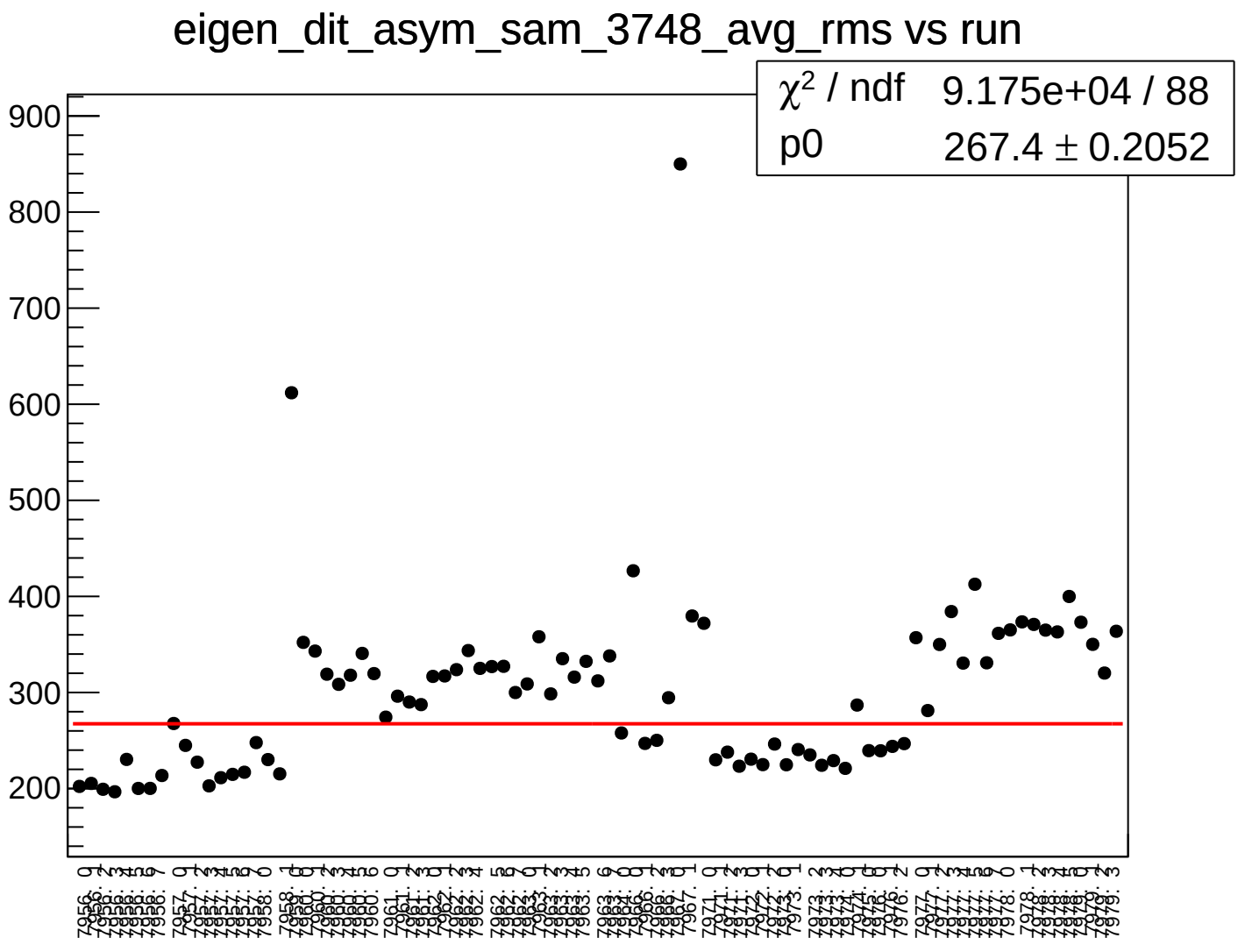

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 111.3 / 88
p0 879.6 ± 2642
100
50
0
−50
−100
pull
Entries 89
Mean −2878
Std Dev 0
4
3
2
1
0
−1
−2

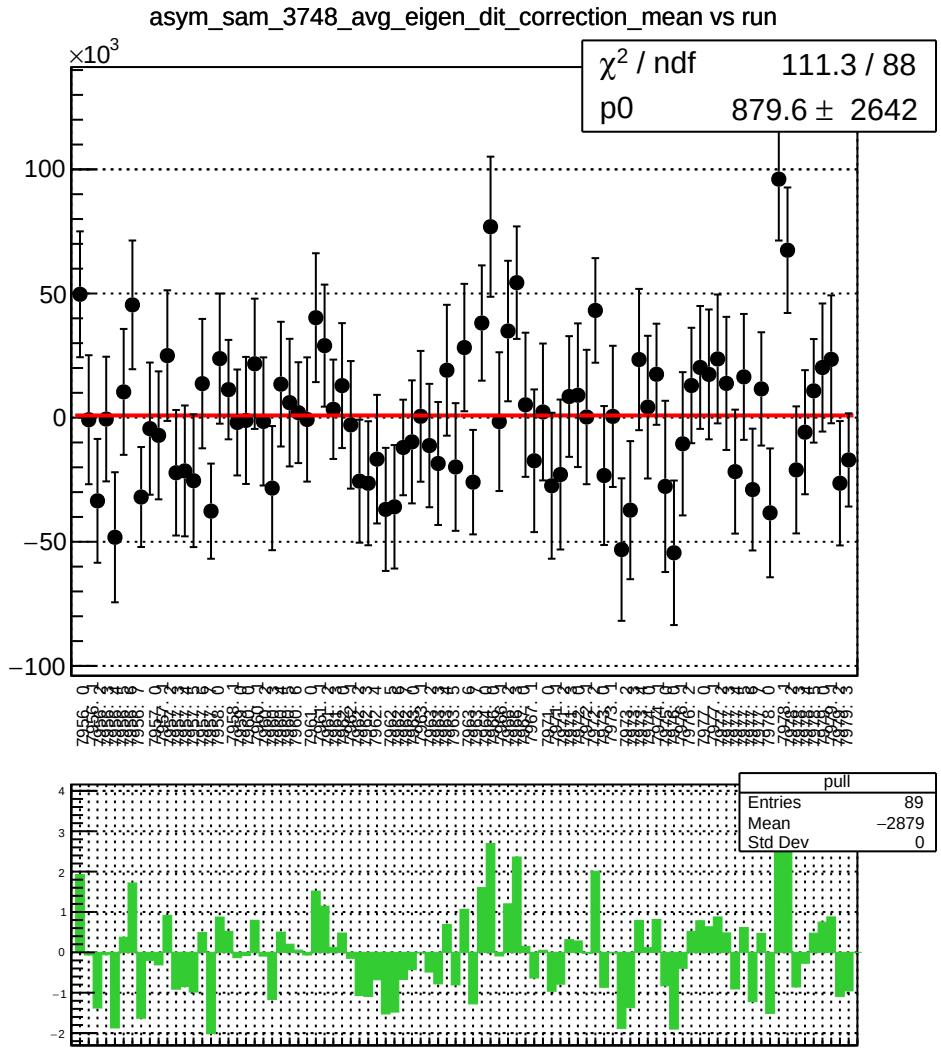

pull1D
Entries 89
Mean −0.001002
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

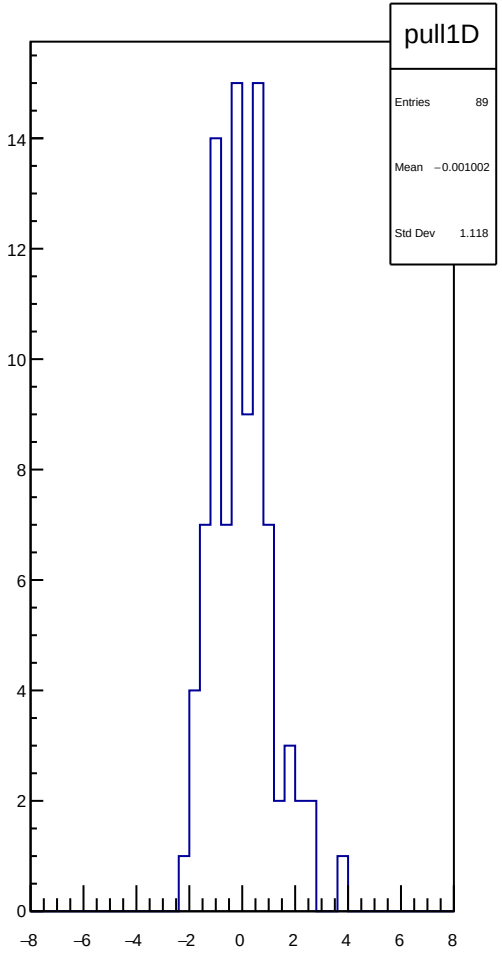

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 5378 / 88
p0 2496 ± 1.868
3000
2900
2800
2700
2600
2500
2400
2300

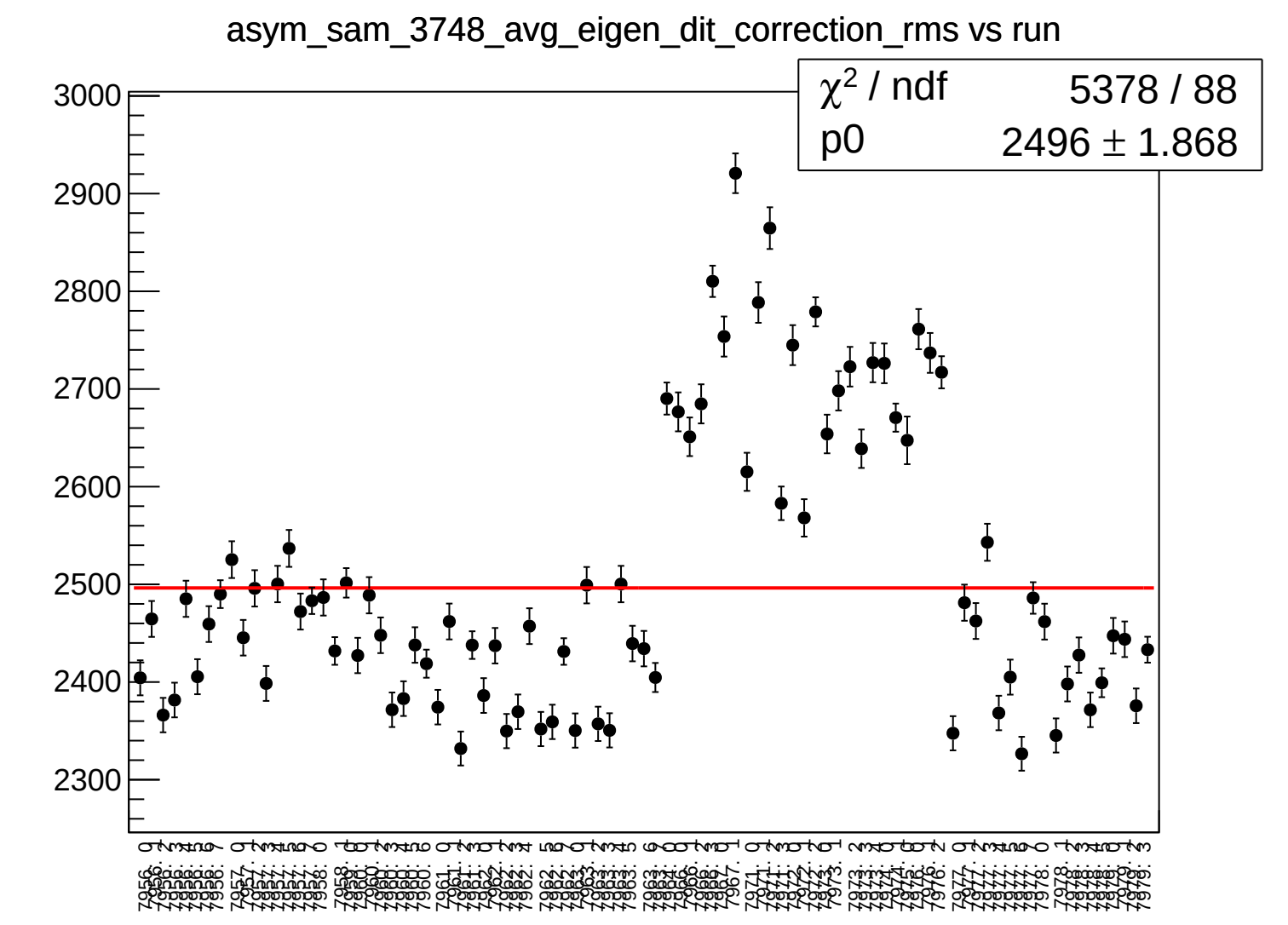

eigen_dit_asym_sam_3748_avg_mean vs run
$\chi^2$ / ndf 93.14 / 88
p0 143.4 ± 290.2
pull
Entries 89
Mean 79.66
Std Dev 56.4

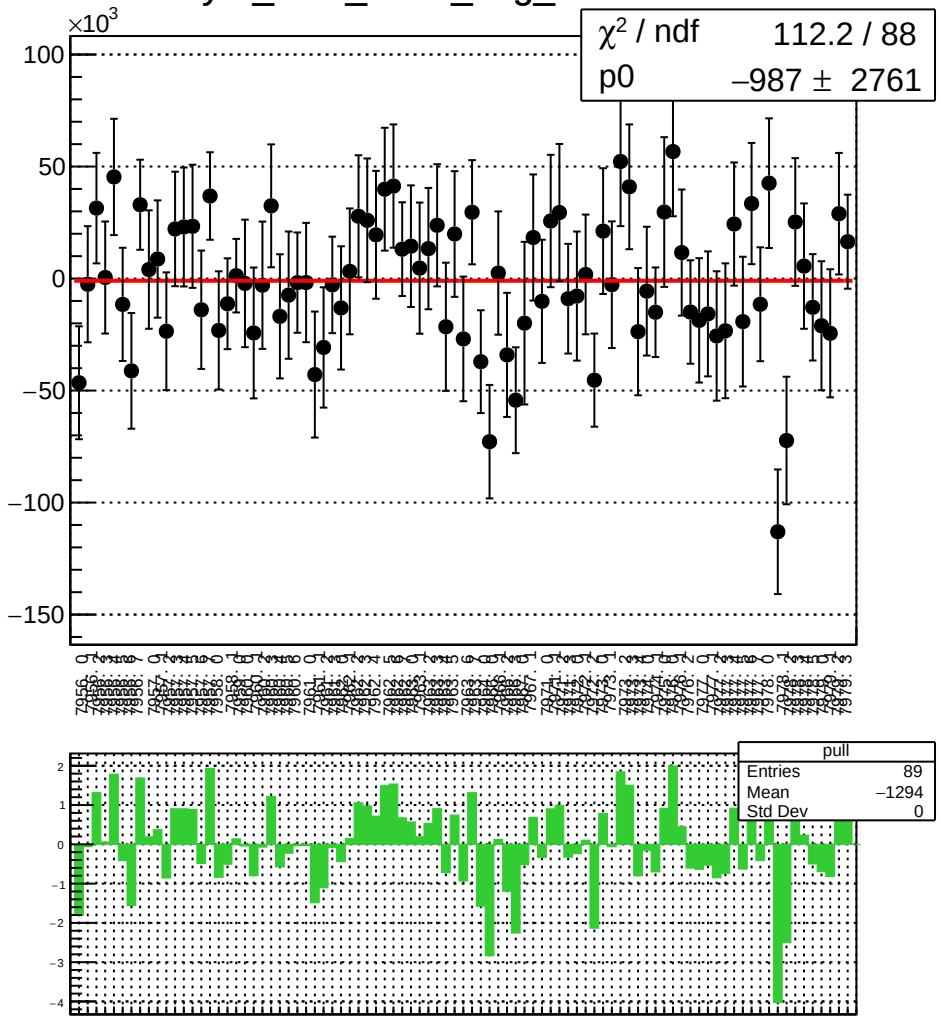

pull1D
Entries 89
Mean −0.02499
Std Dev 1.023

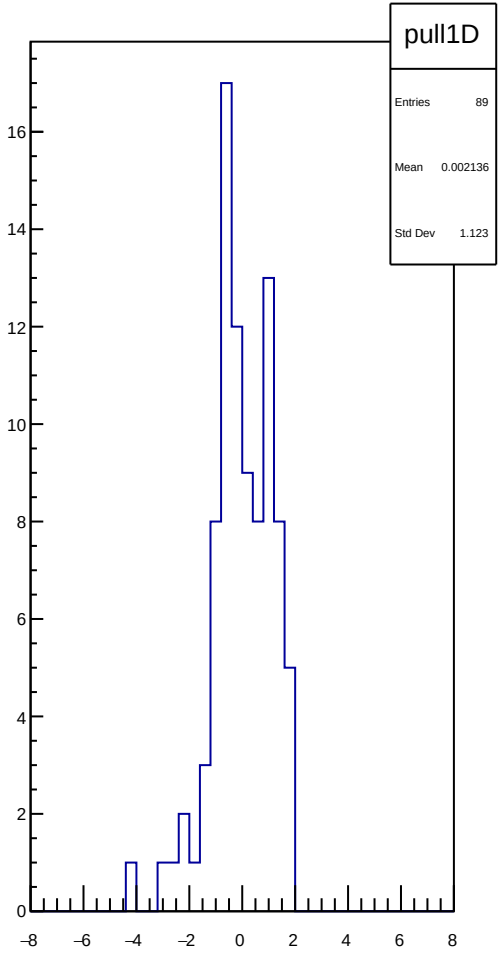

eigen_dit_asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 9.175e+04 / 88
p0 267.4 ± 0.2052
900
800
700
600
500
400
300
200

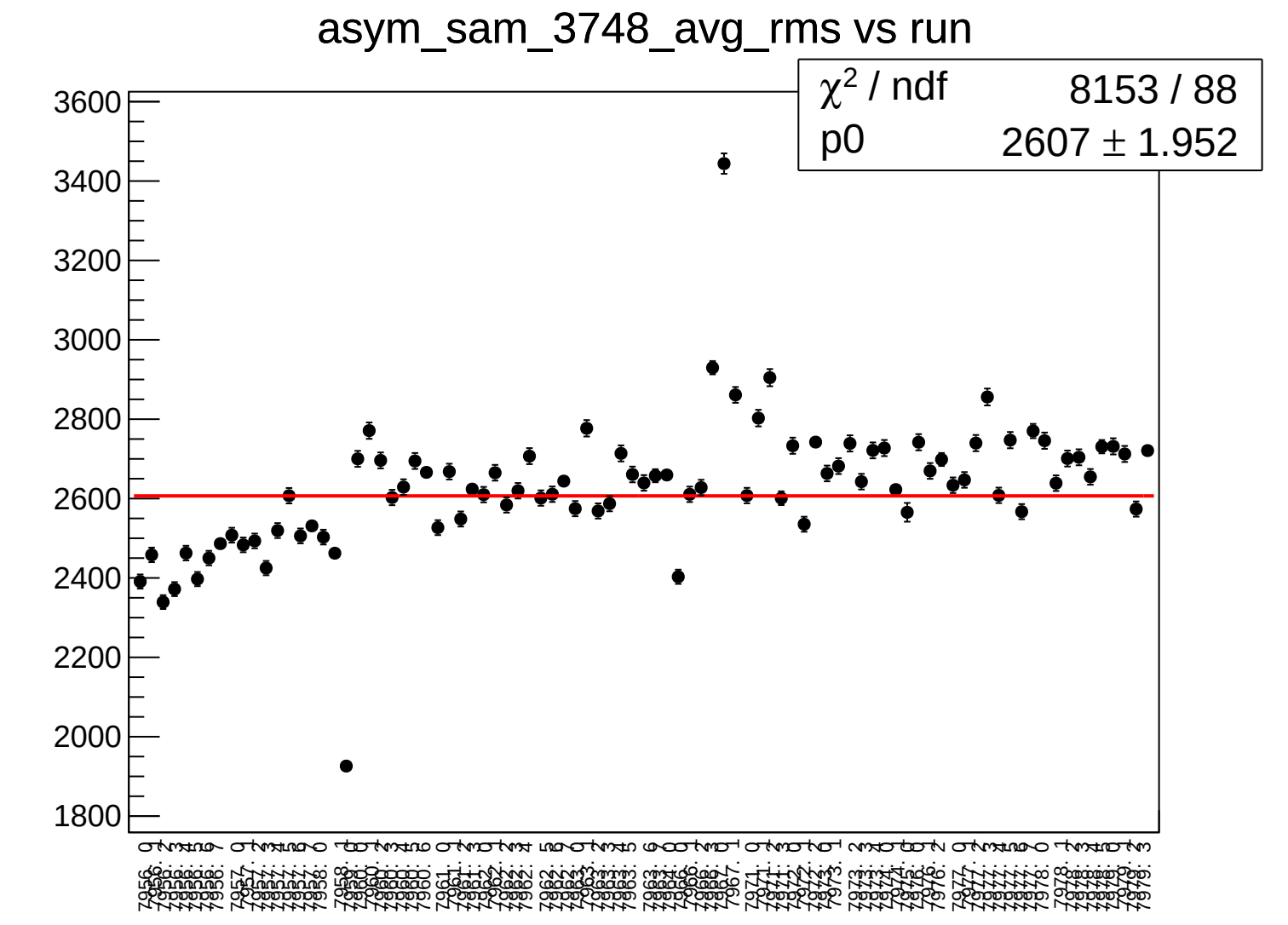

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 111.3 / 88
p0 879.6 ± 2642
100
50
0
−50
−100
pull
Entries 89
Mean −2879
Std Dev 0
4
3
2
1
0
−1
−2

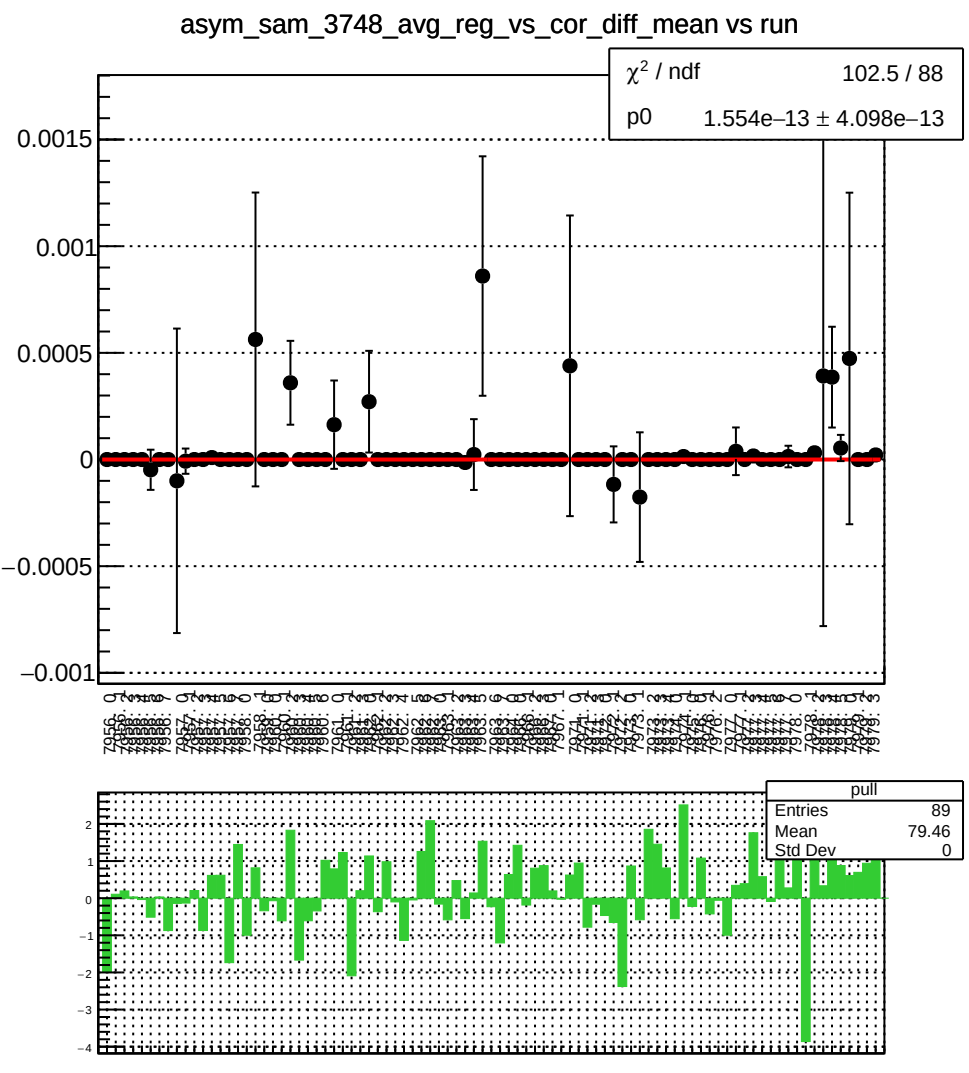

pull1D
Entries 89
Mean −0.001002
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

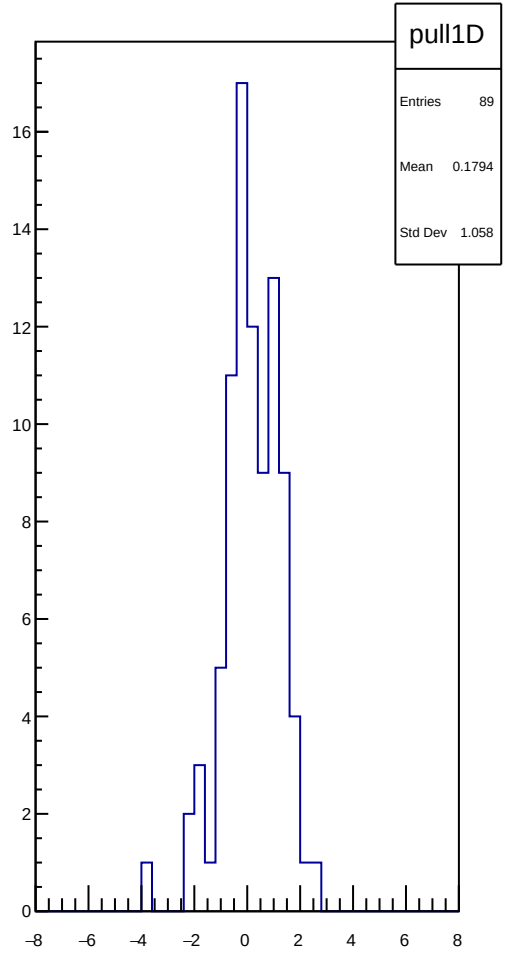

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 5378 / 88
p0 2496 ± 1.868
3000
2900
2800
2700
2600
2500
2400
2300

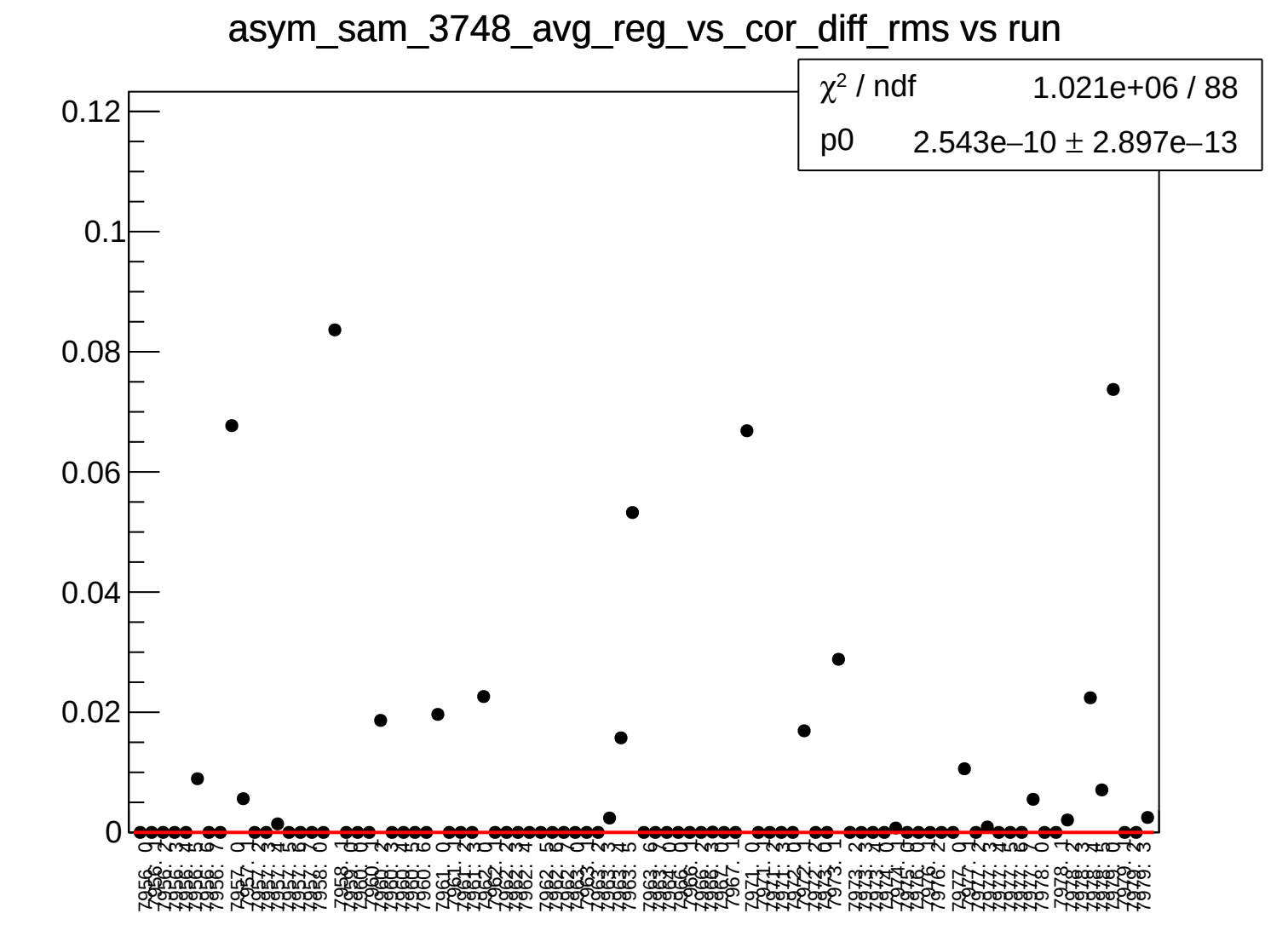

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 112.2 / 88
p0 −987 ± 2761
100
50
0
−50
−100
−150
pull
Entries 89
Mean −1294
Std Dev 0
2
1
0
−1
−2
−3
−4

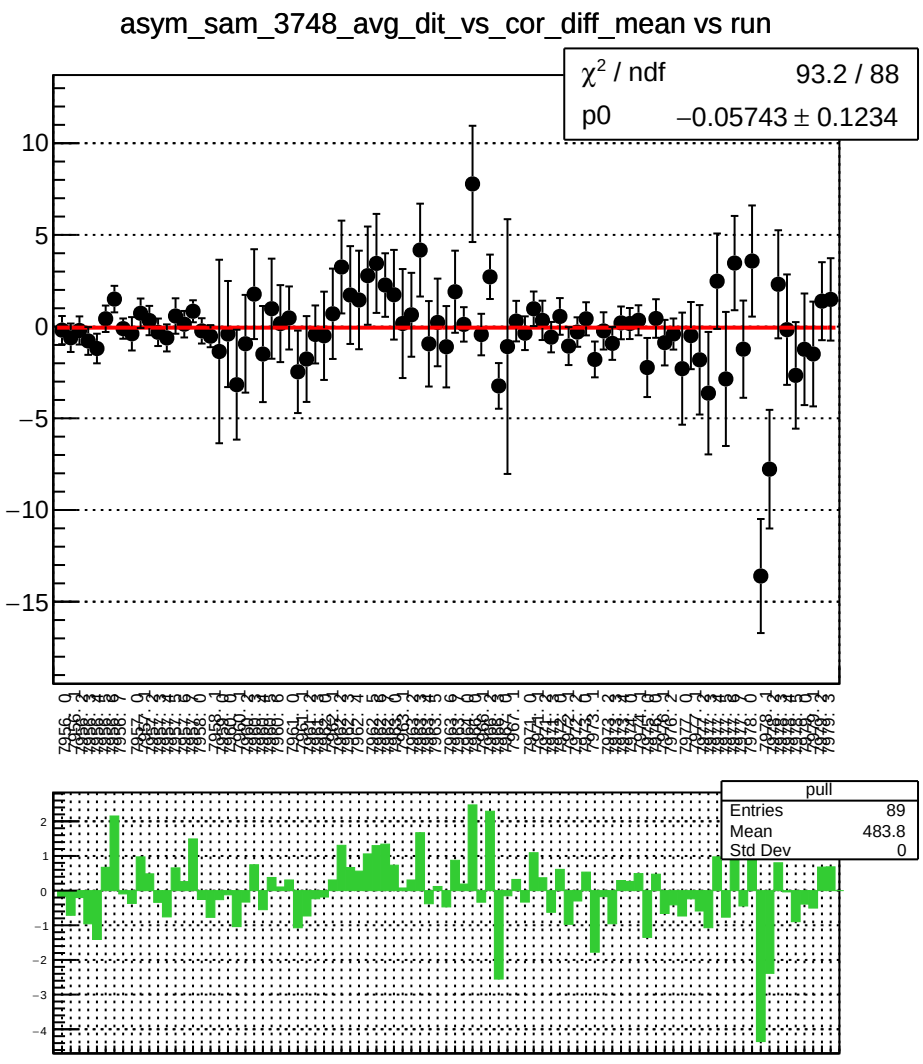

pull1D
Entries 89
Mean 0.002136
Std Dev 1.123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

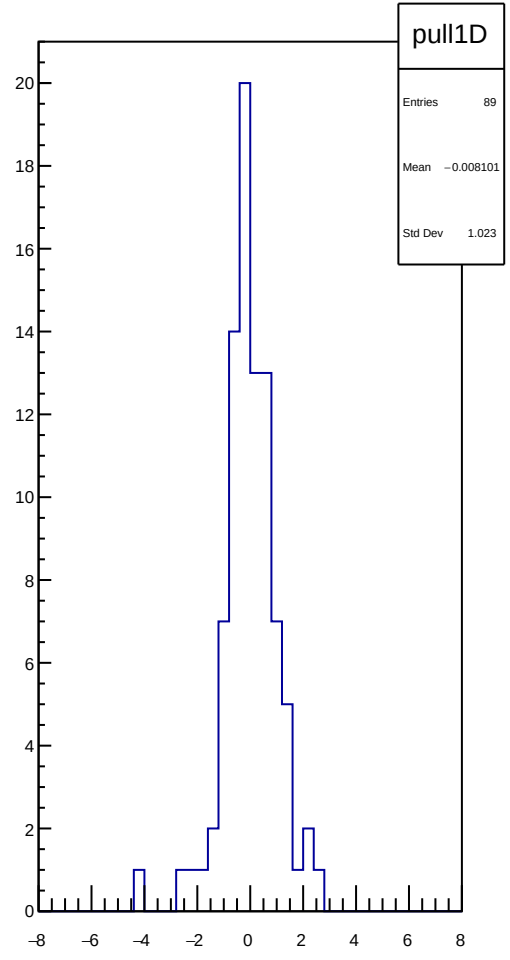

asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 8153 / 88
p0 2607 ± 1.952
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

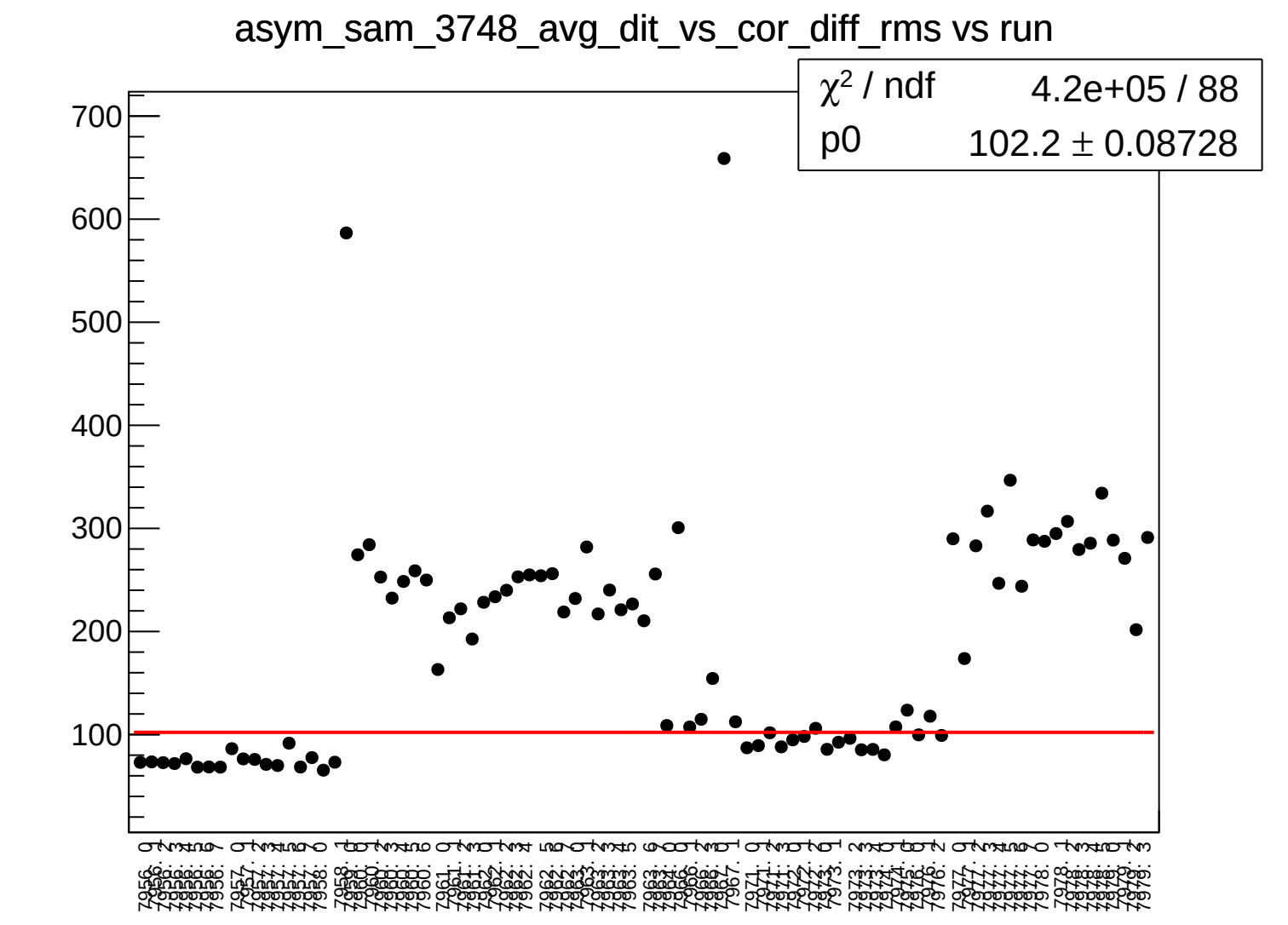

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 88
p0 1.554e−13 ± 4.098e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 79.46
Std Dev 0
2
1
0
−1
−2
−3
−4

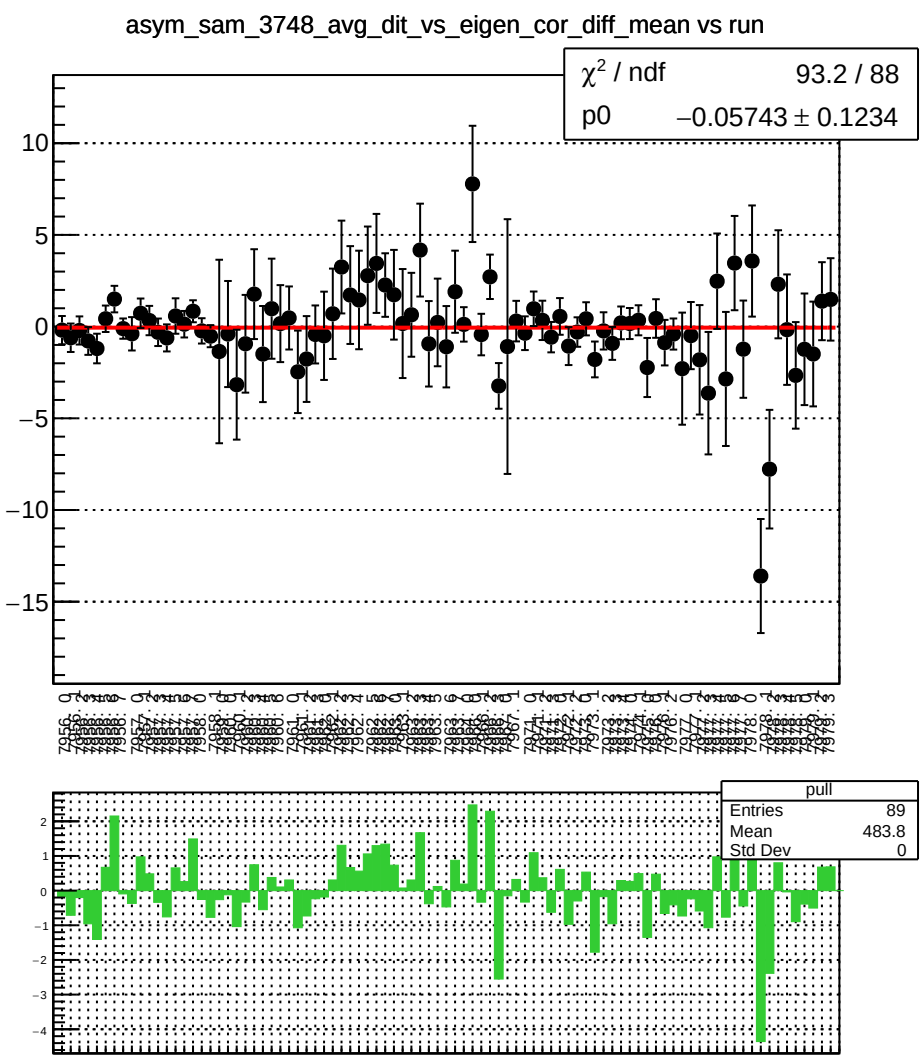

pull1D
Entries 89
Mean 0.1794
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

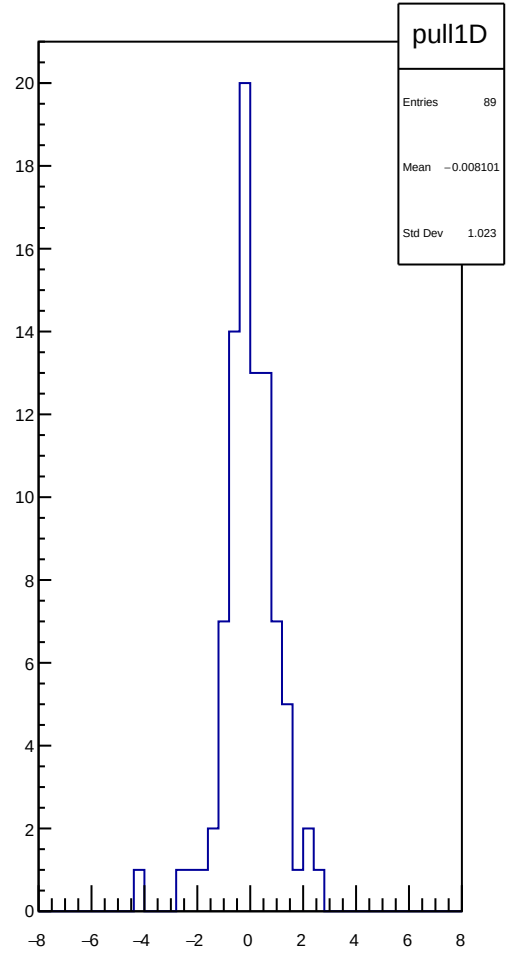

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.021e+06 / 88
p0 2.543e−10 ± 2.897e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

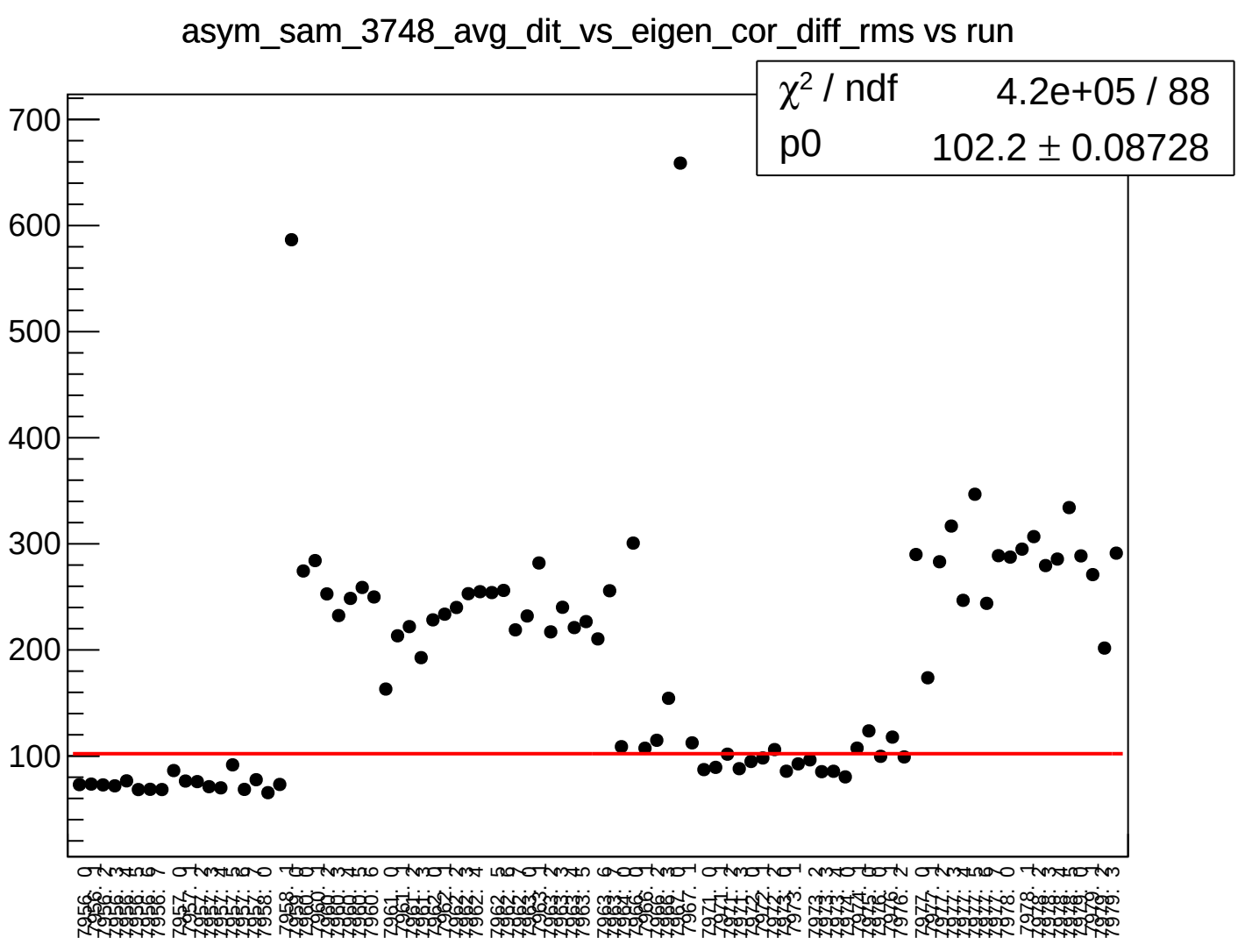

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.2 / 88
p0 −0.05743 ± 0.1234
pull
Entries 89
Mean 483.8
Std Dev 0

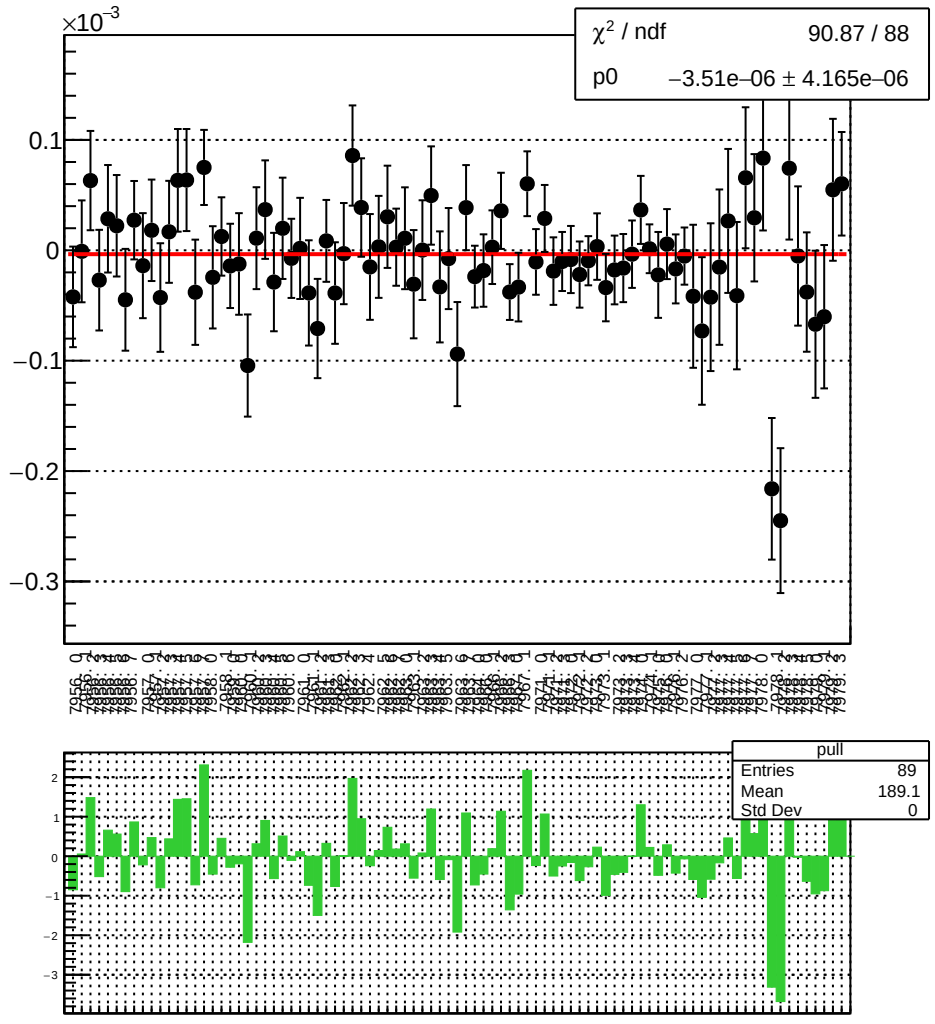

pull1D
Entries 89
Mean −0.008101
Std Dev 1.023

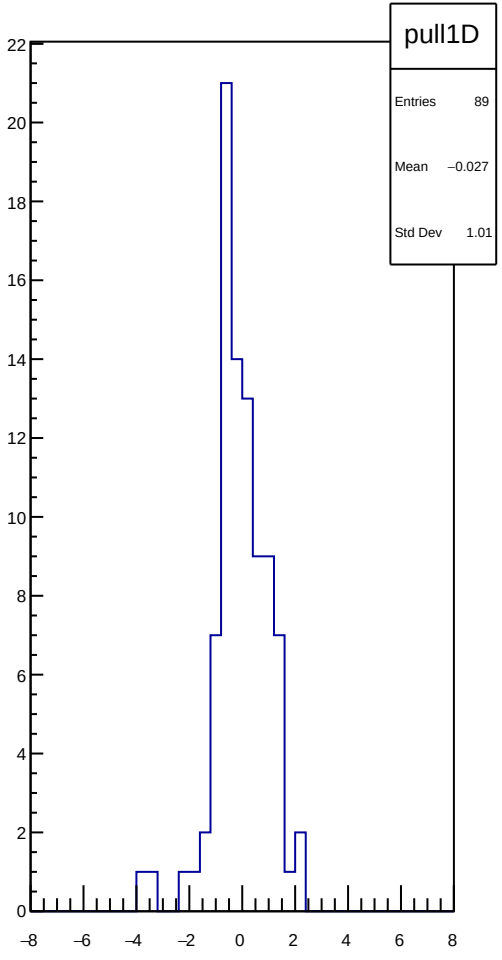

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.2e+05 / 88
p0 102.2 ± 0.08728
700
600
500
400
300
200
100

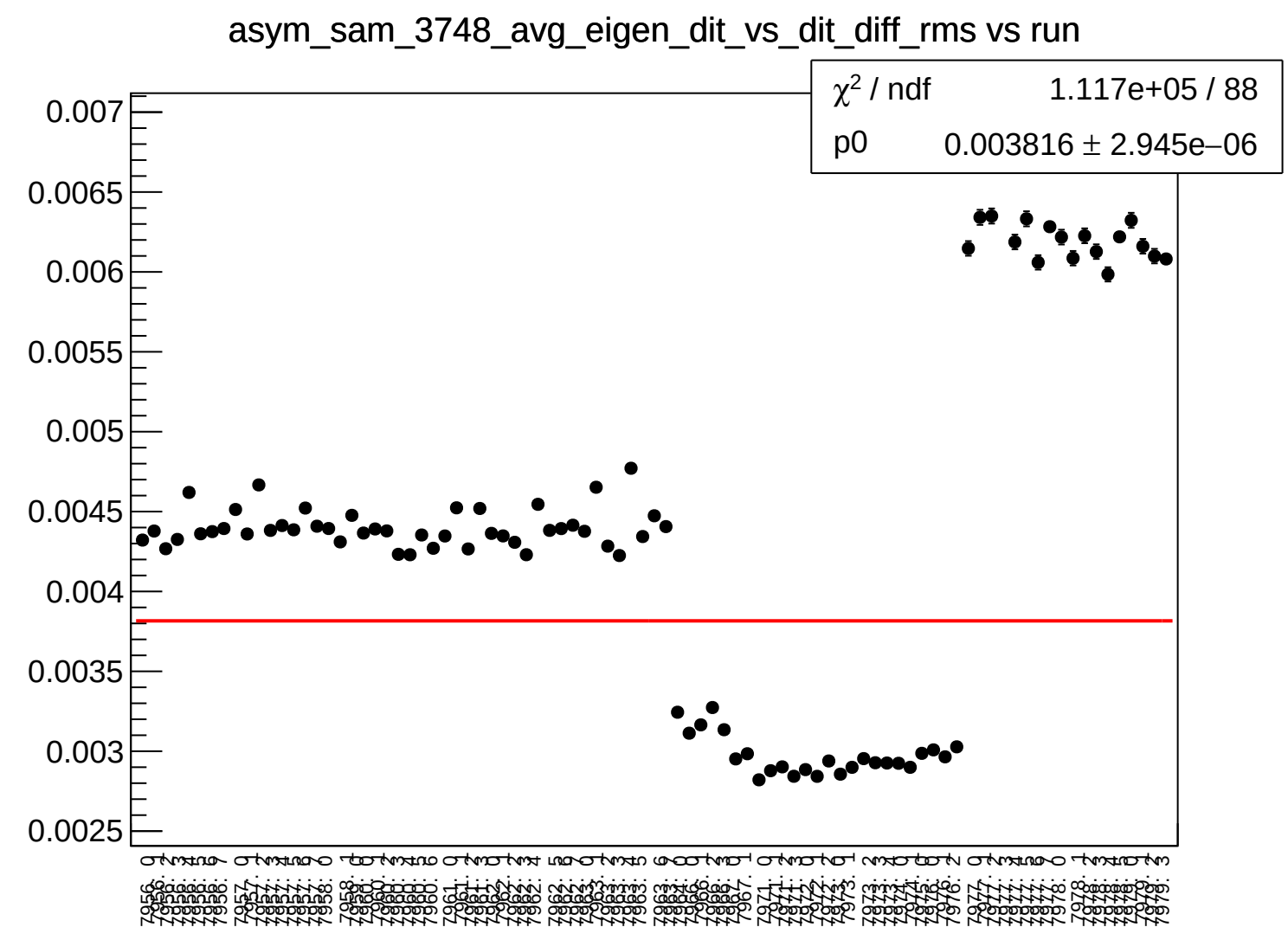

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.2 / 88
p0 −0.05743 ± 0.1234
pull
Entries 89
Mean 483.8
Std Dev 0

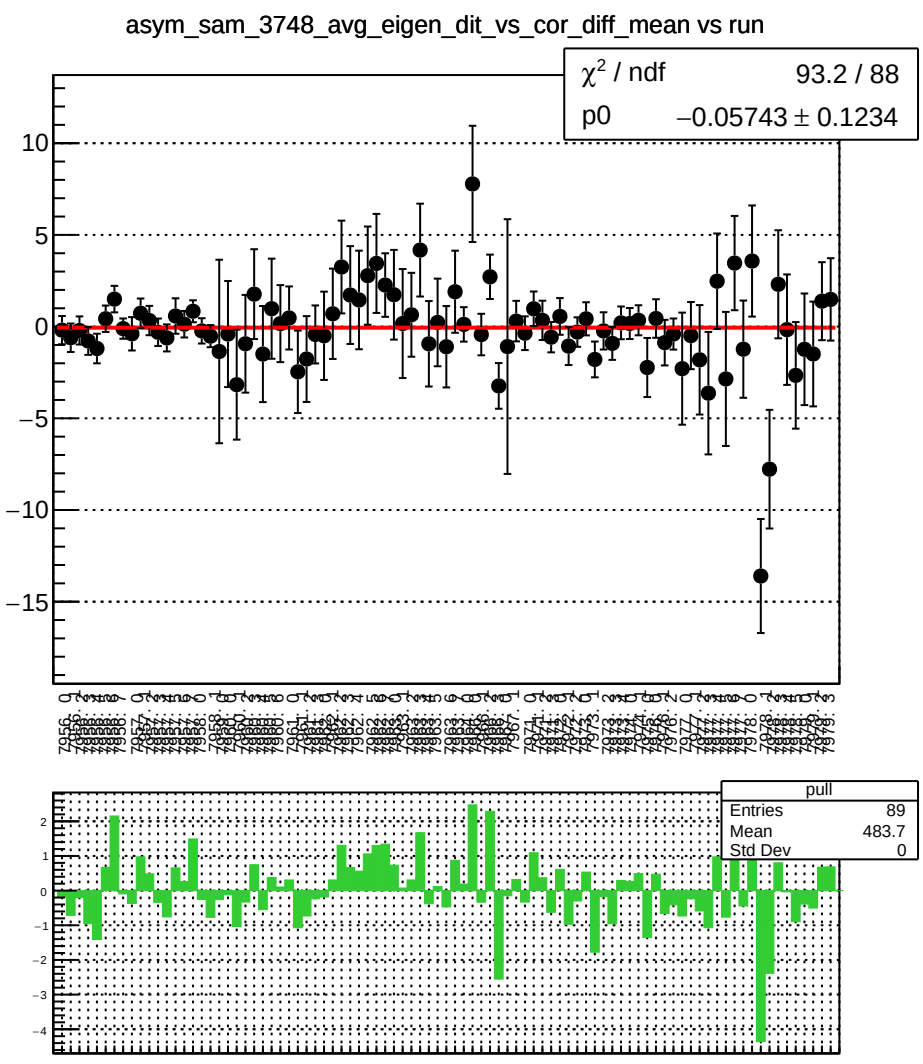

pull1D
Entries 89
Mean −0.008101
Std Dev 1.023

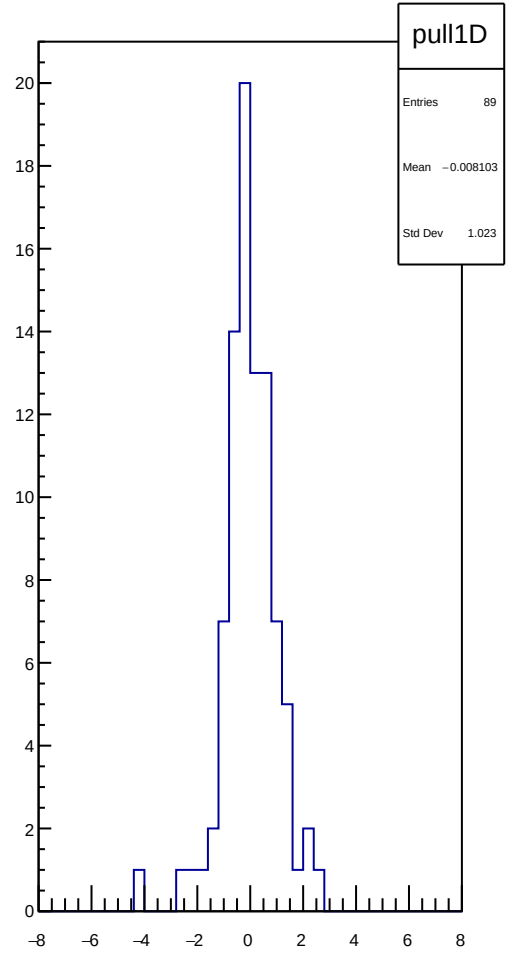

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.2e+05 / 88
p0 102.2 ± 0.08728
700
600
500
400
300
200
100

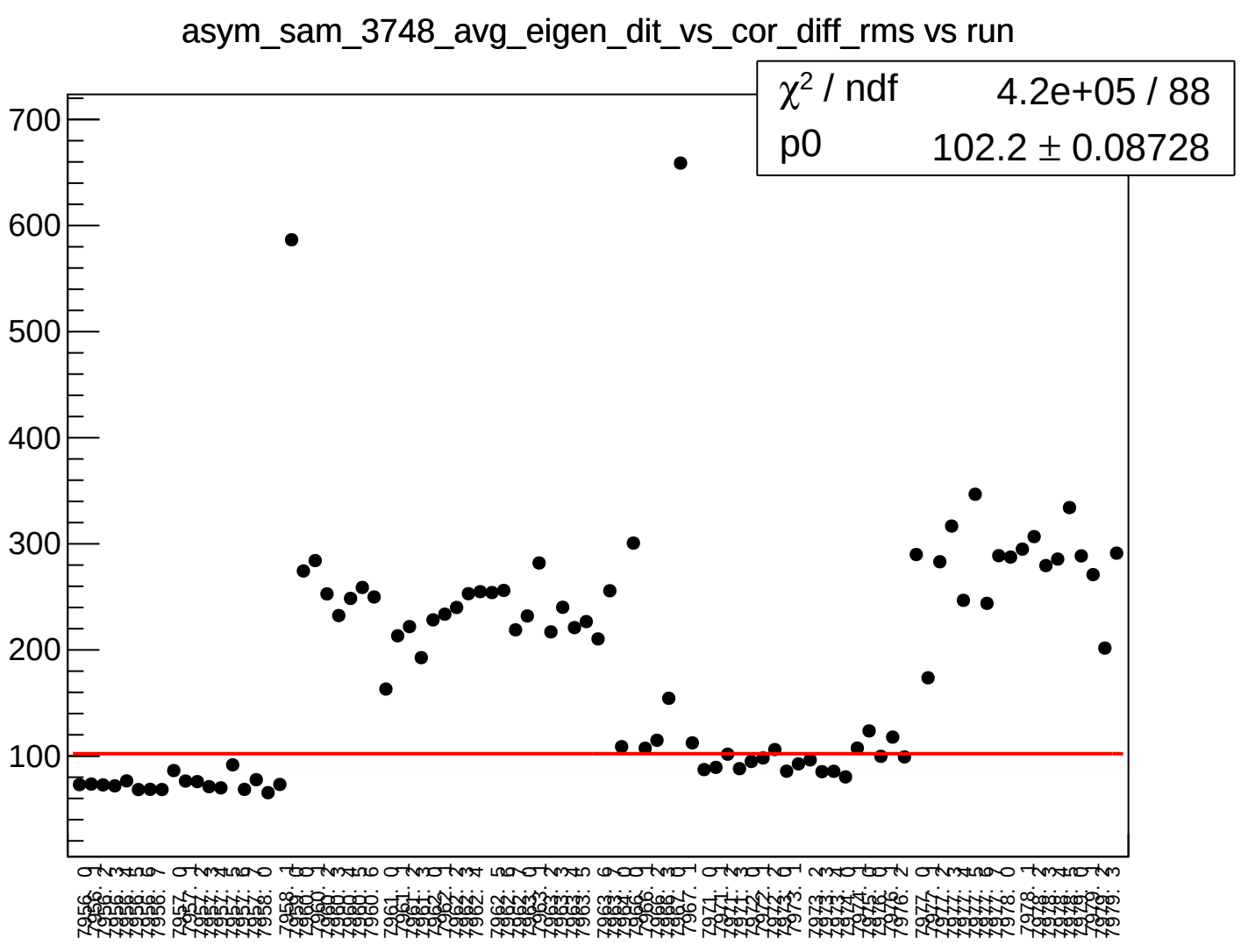

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.87 / 88
p0 −3.51e−06 ± 4.165e−06
0.1
0
−0.1
−0.2
−0.3
pull
Entries 89
Mean 189.1
Std Dev 0
2
1
0
−1
−2
−3

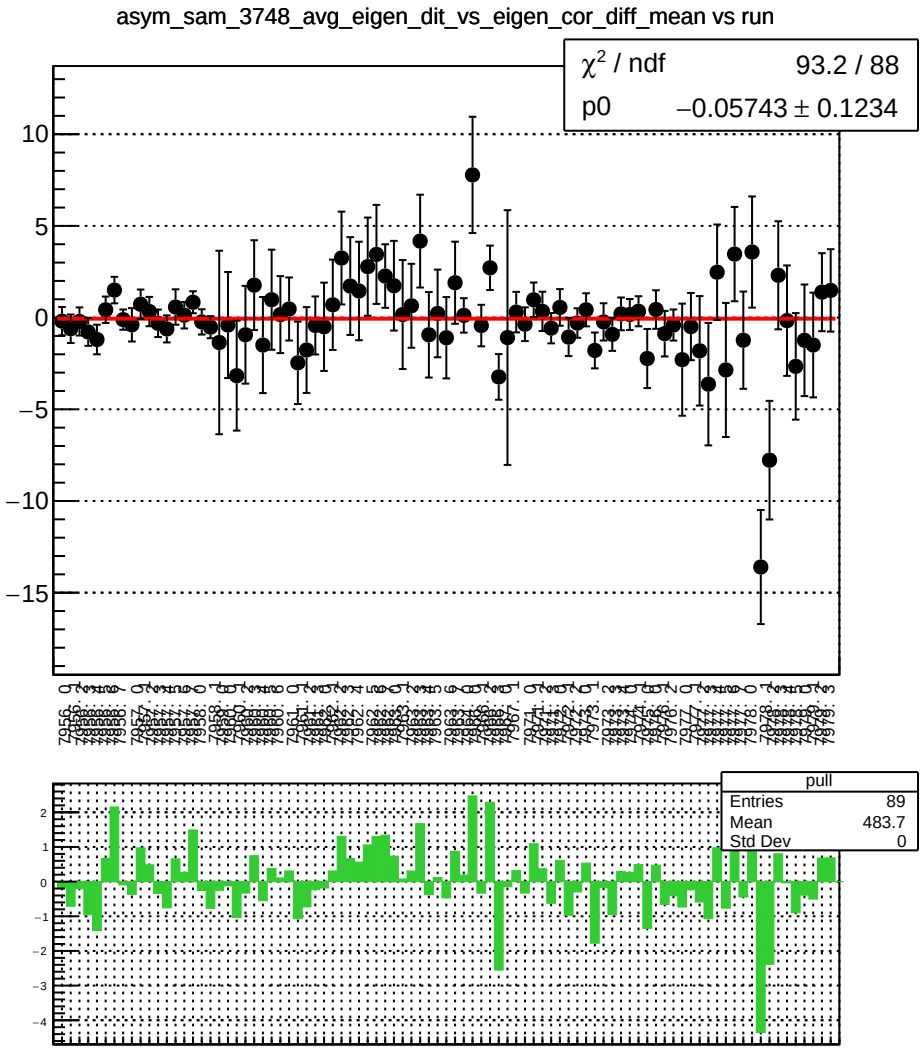

pull1D
Entries 89
Mean −0.027
Std Dev 1.01
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

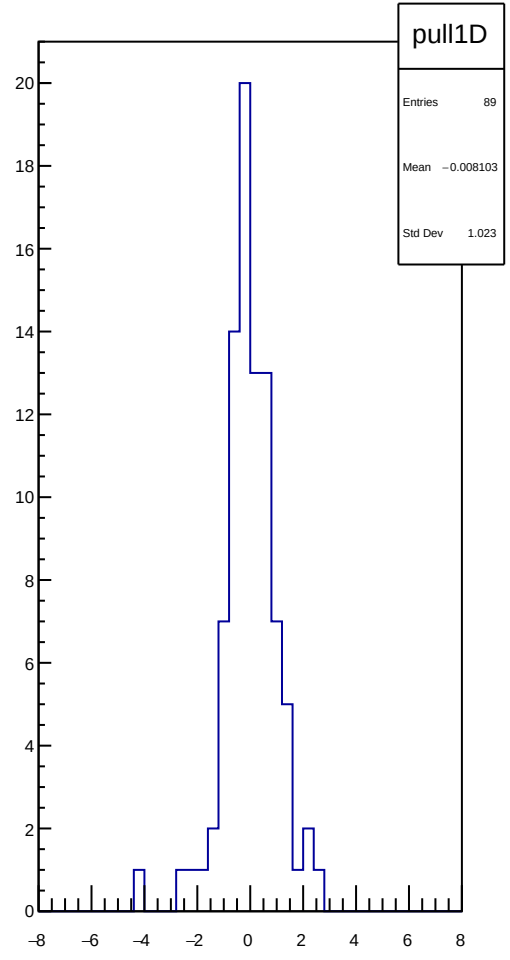

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.117e+05 / 88
p0 0.003816 ± 2.945e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

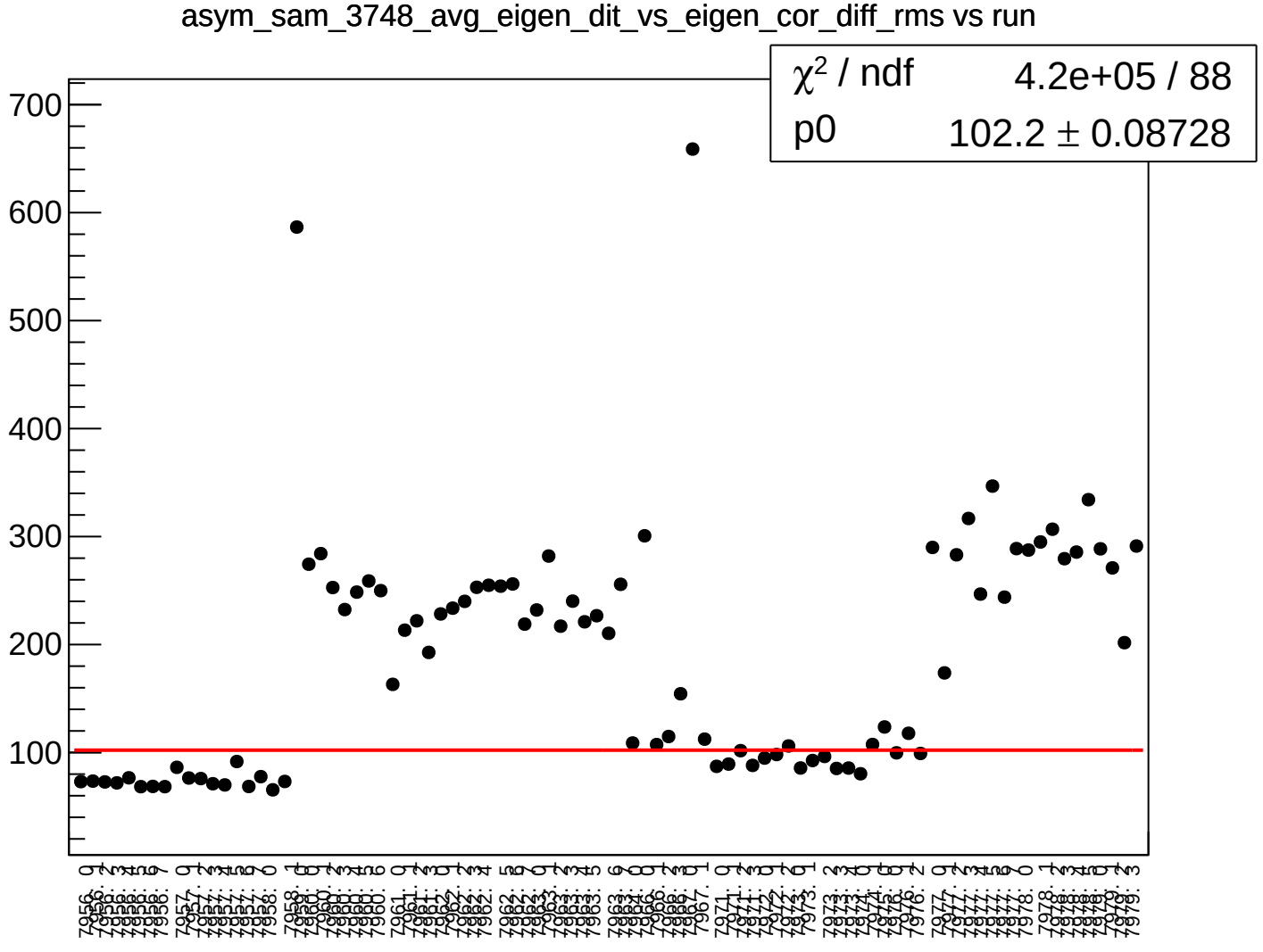

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.2 / 88
p0 −0.05743 ± 0.1234
pull
Entries 89
Mean 483.7
Std Dev 0

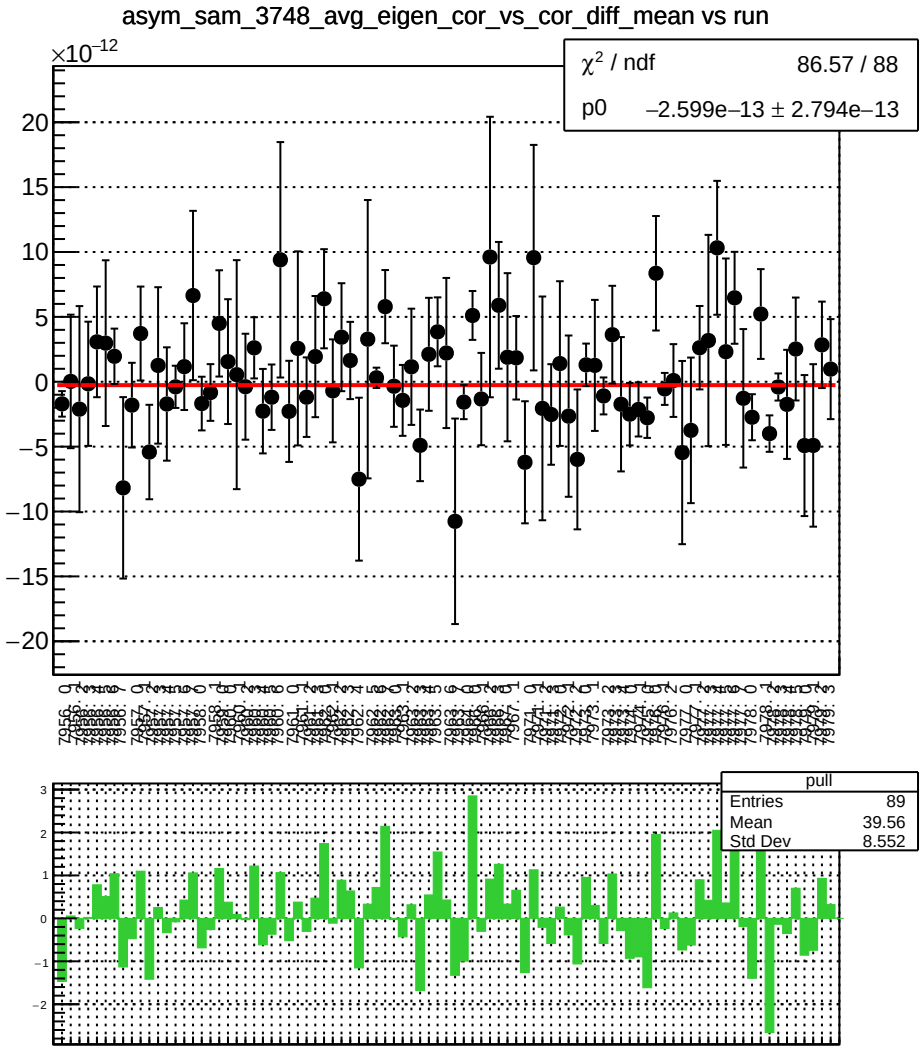

pull1D
Entries 89
Mean −0.008103
Std Dev 1.023

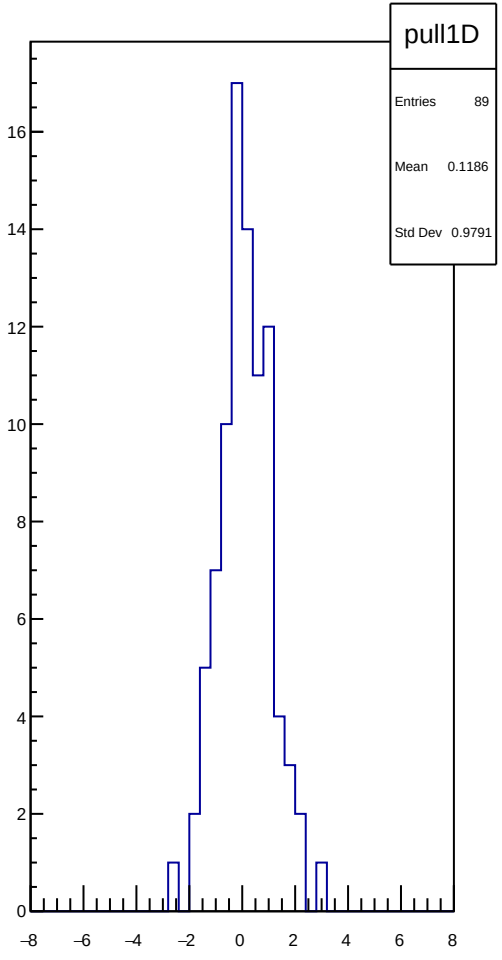

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.2e+05 / 88
p0 102.2 ± 0.08728
700
600
500
400
300
200
100

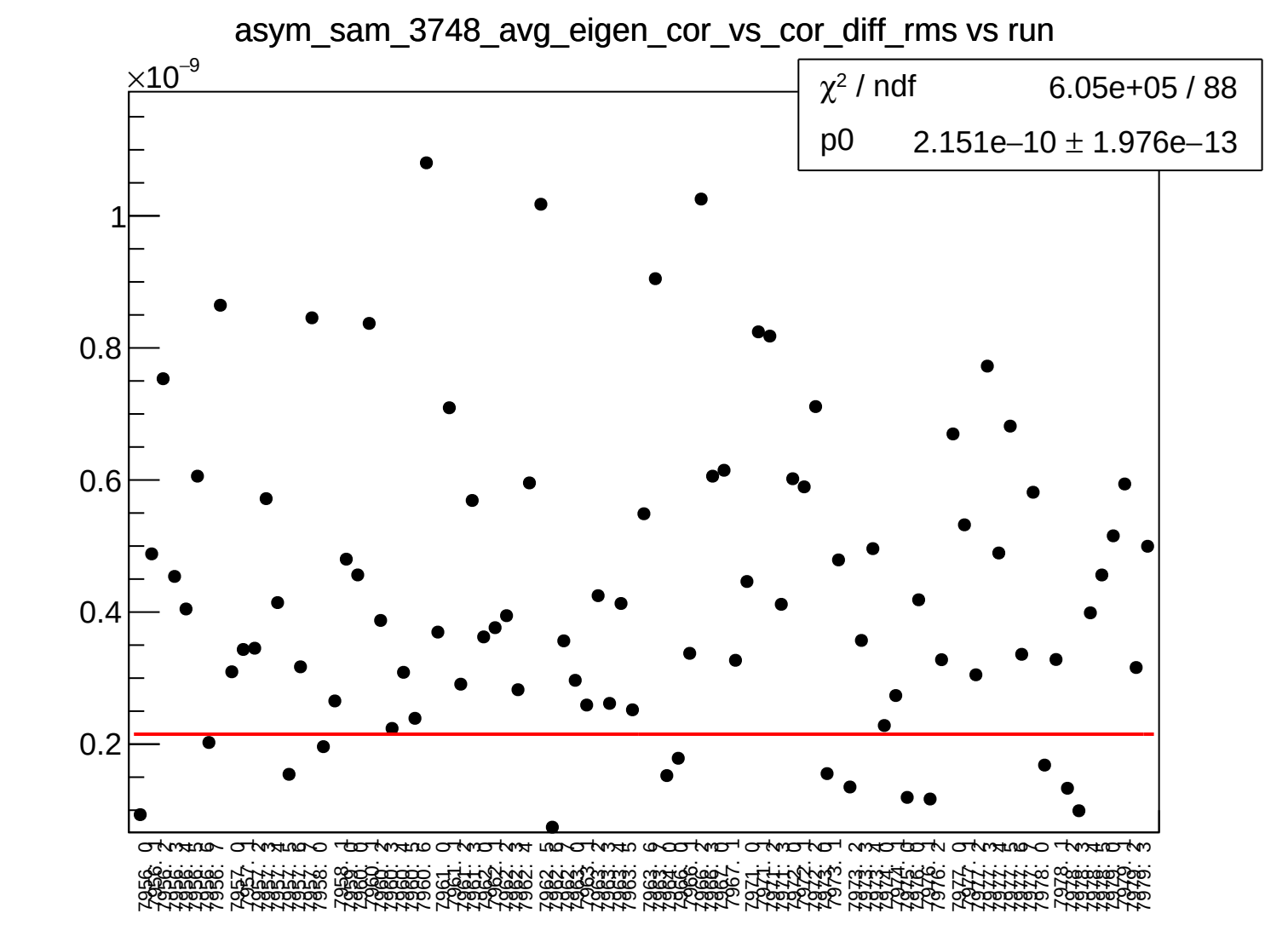

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
$\chi^2$ / ndf 93.2 / 88
p0 −0.05743 ± 0.1234
pull
Entries 89
Mean 483.7
Std Dev 0

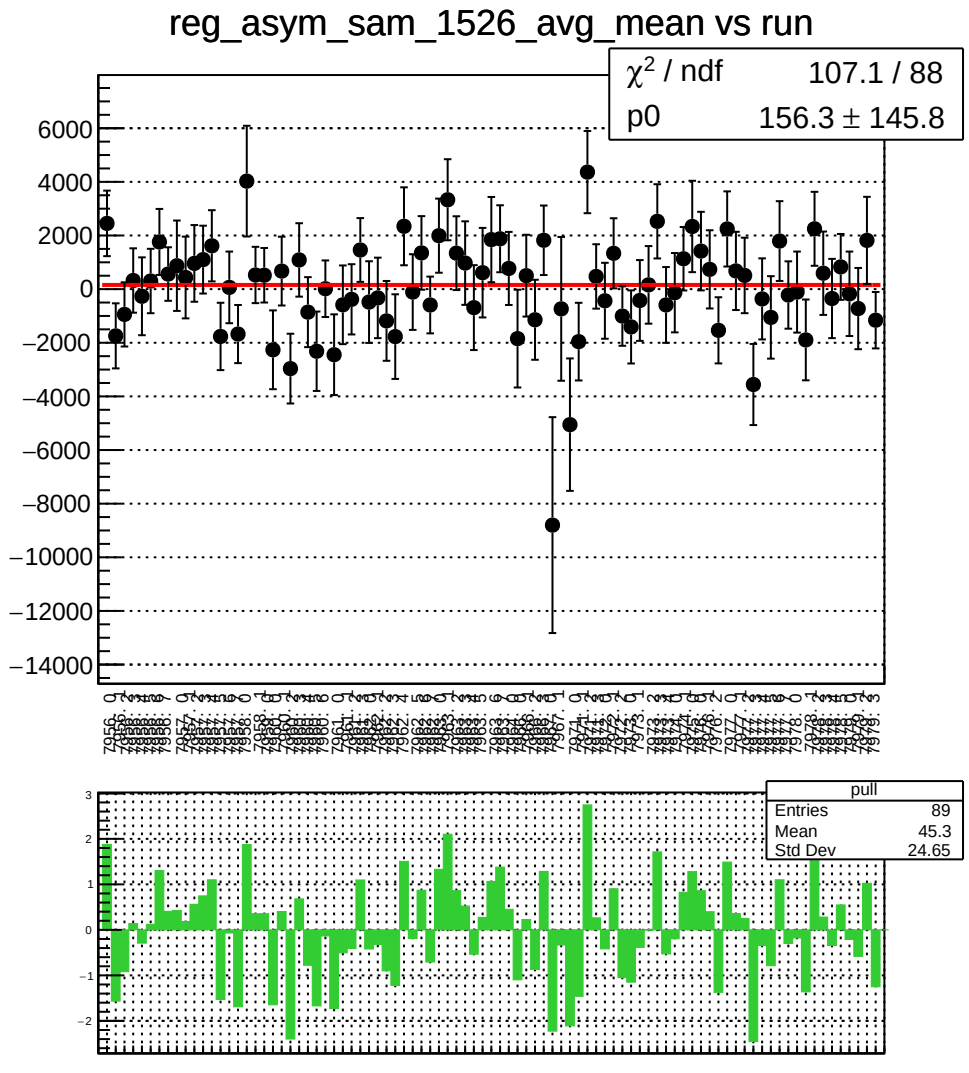

pull1D
Entries 89
Mean −0.008103
Std Dev 1.023

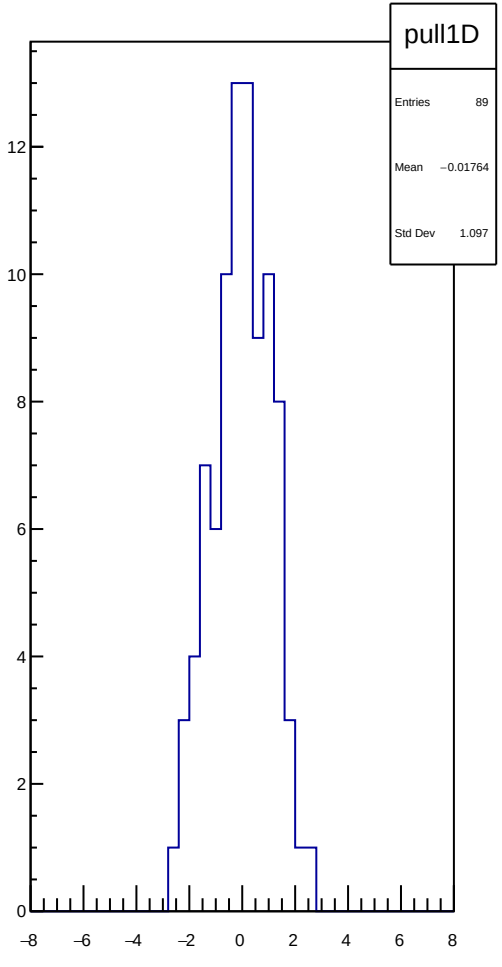

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.2e+05 / 88
p0 102.2 ± 0.08728
700
600
500
400
300
200
100

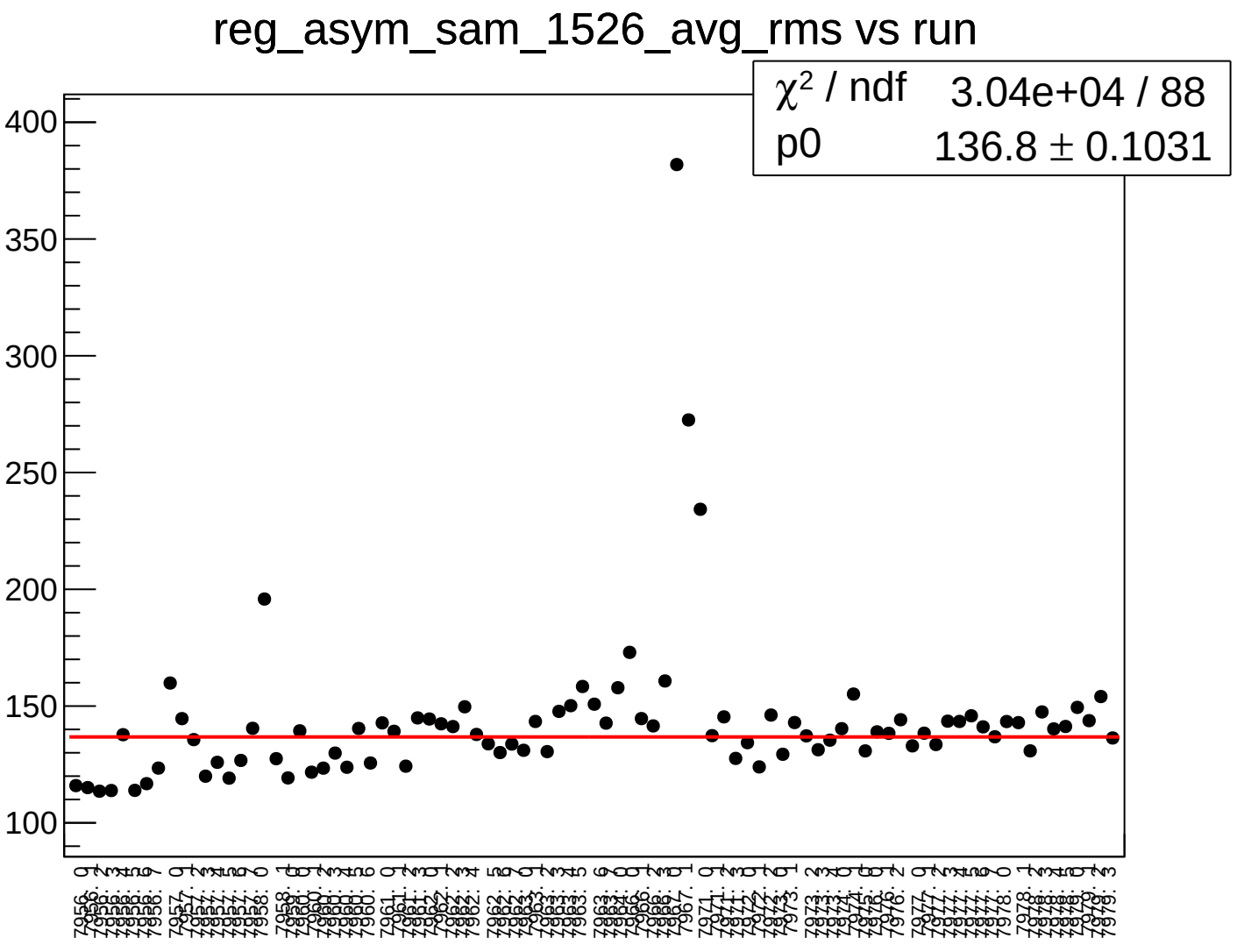

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.57 / 88
p0 −2.599e−13 ± 2.794e−13
pull
Entries 89
Mean 39.56
Std Dev 8.552

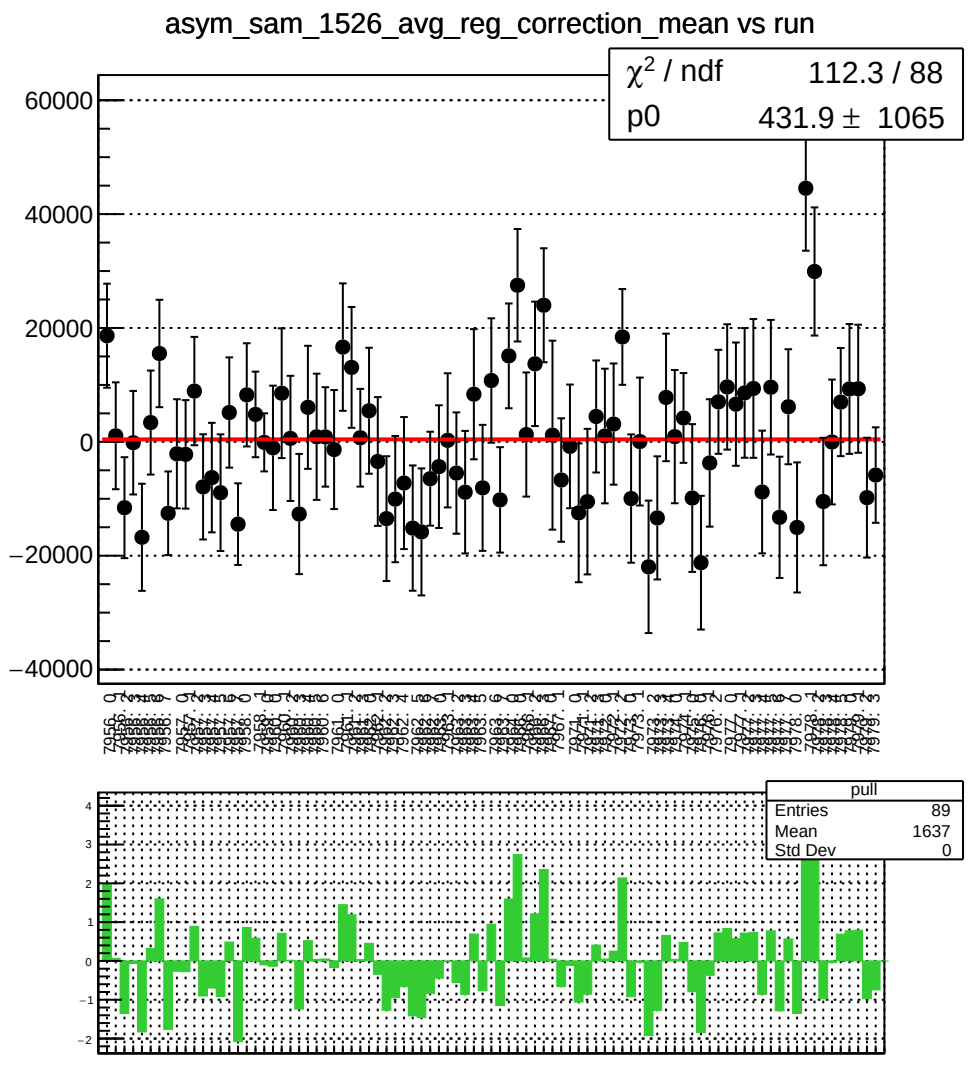

pull1D
Entries 89
Mean 0.1186
Std Dev 0.9791

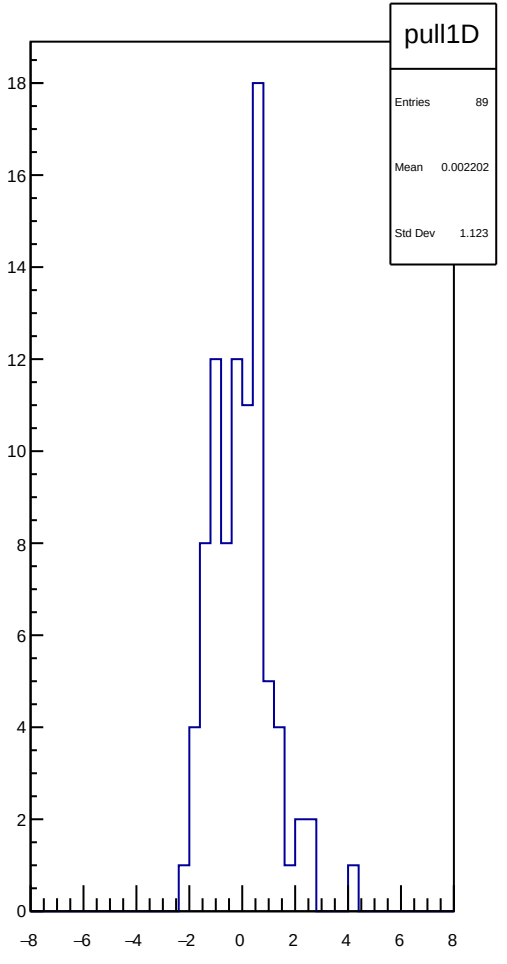

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.05e+05 / 88
p0 2.151e−10 ± 1.976e−13
1
0.8
0.6
0.4
0.2

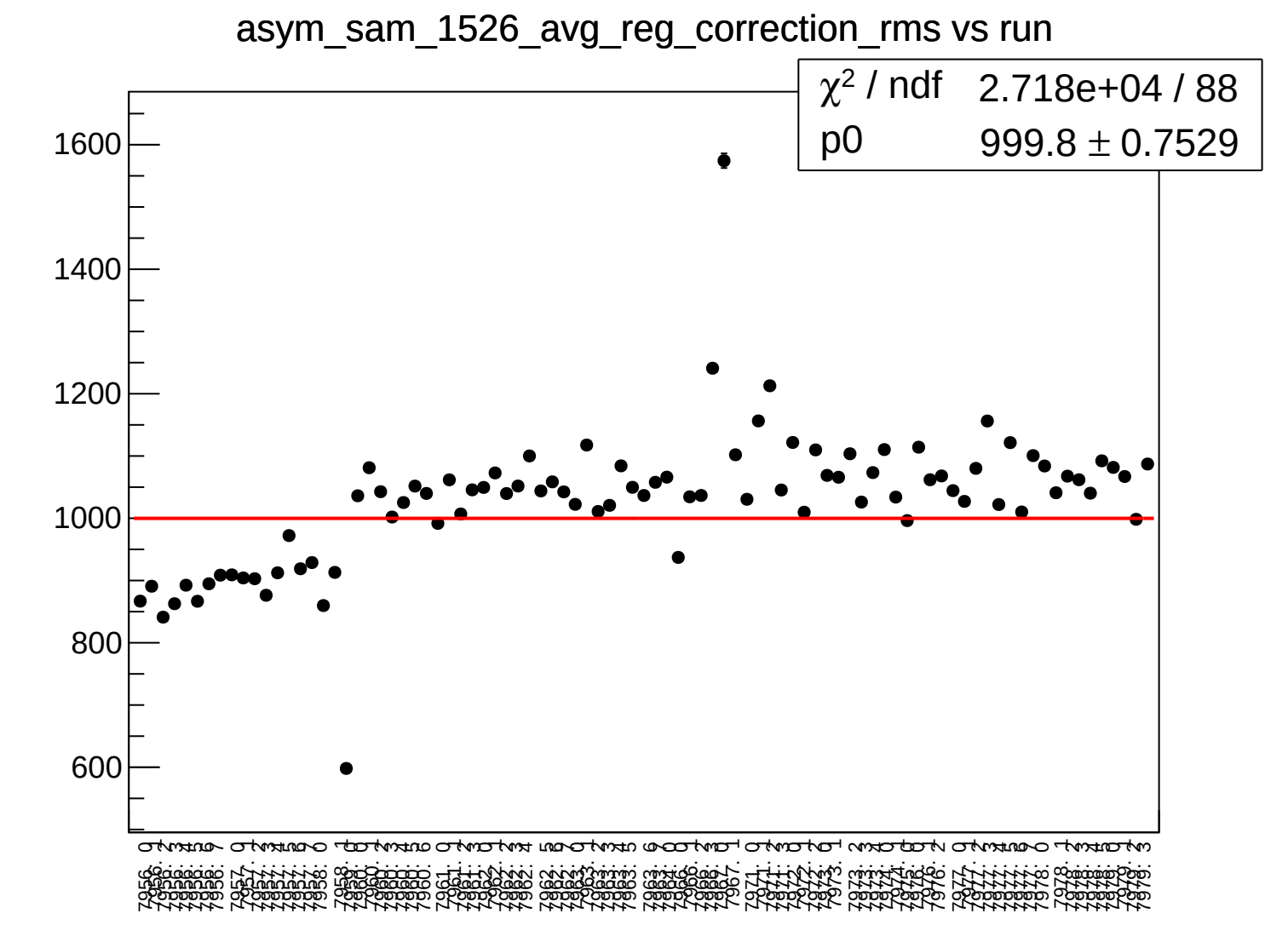

reg_asym_sam_1526_avg_mean vs run
$\chi^2$ / ndf 107.1 / 88
p0 156.3 ± 145.8
pull
Entries 89
Mean 45.3
Std Dev 24.65

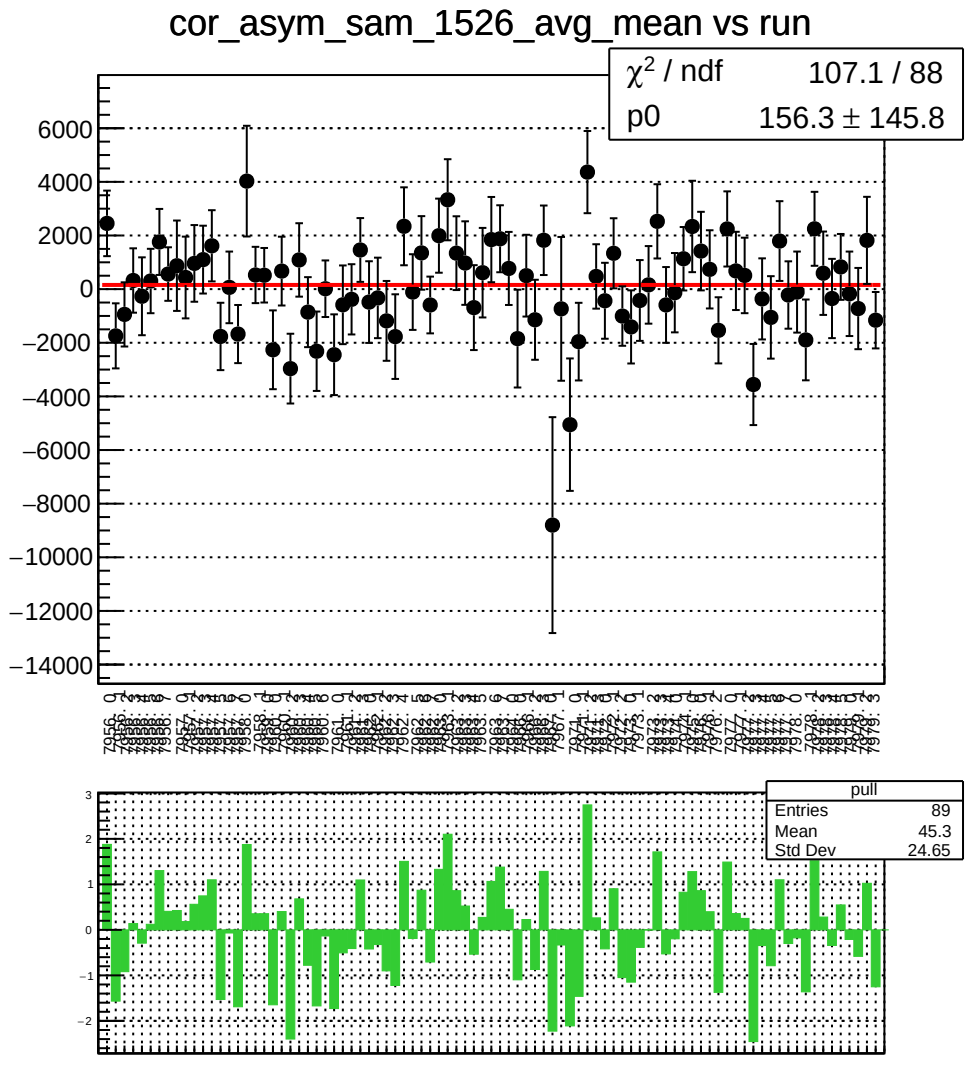

pull1D
Entries 89
Mean −0.01764
Std Dev 1.097

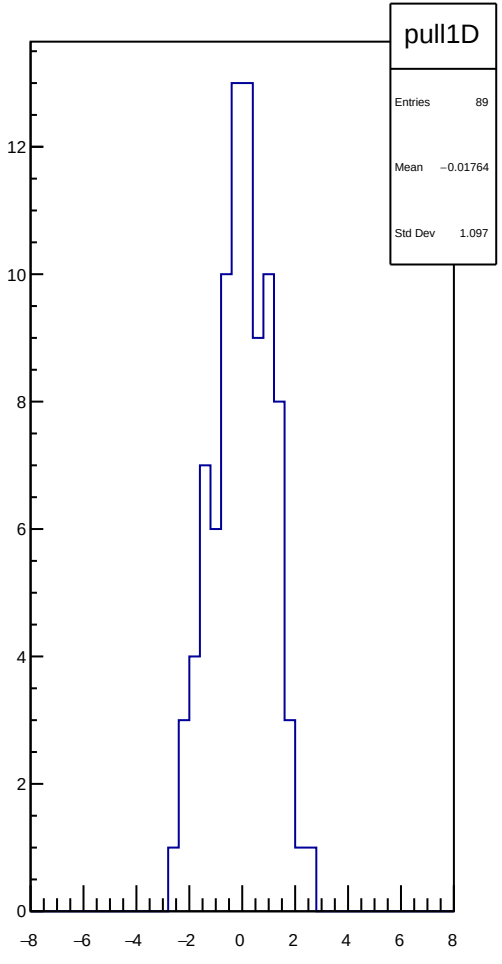

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 3.04e+04 / 88
p0 136.8 ± 0.1031
400
350
300
250
200
150
100

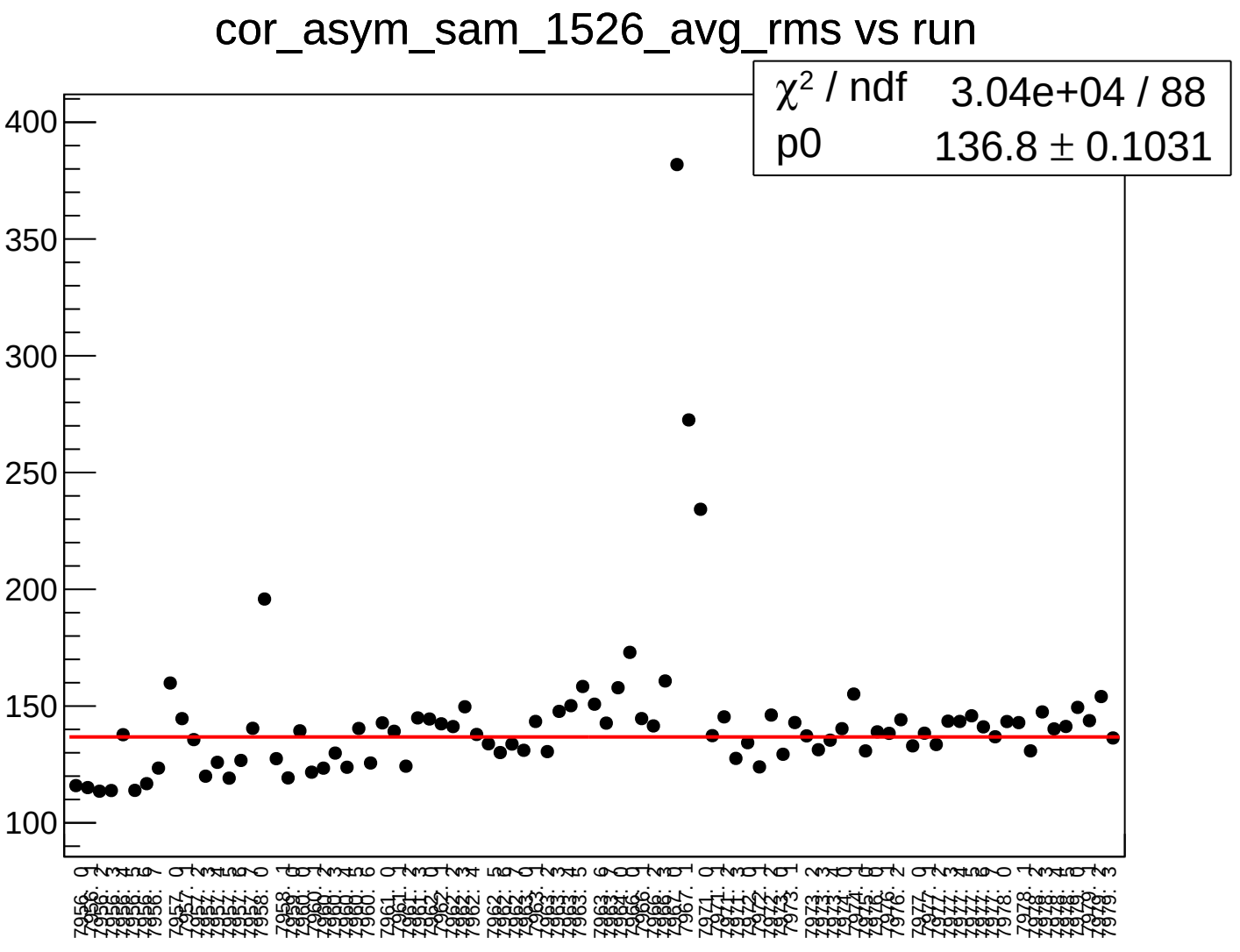

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 112.3 / 88
p0 431.9 ± 1065
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 1637
Std Dev 0
4
3
2
1
0
−1
−2

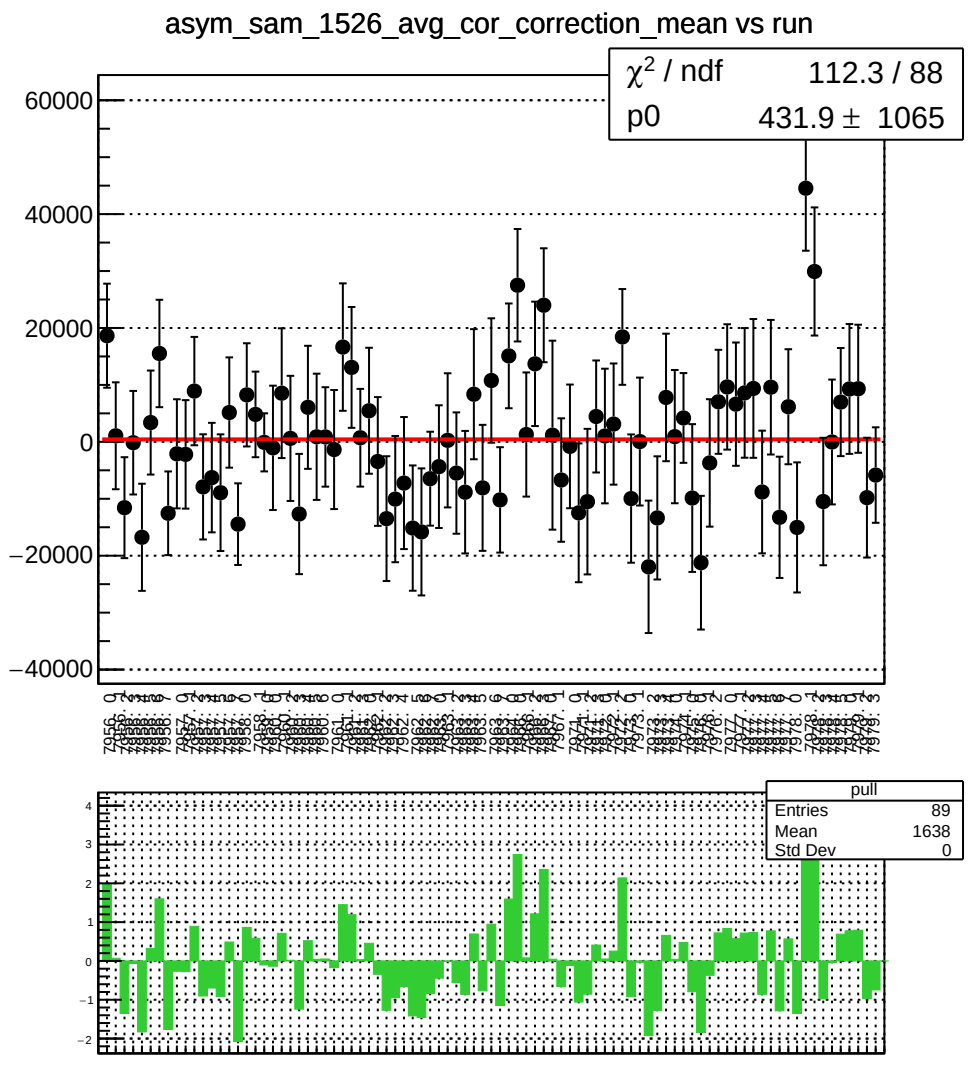

pull1D
Entries 89
Mean 0.002202
Std Dev 1.123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

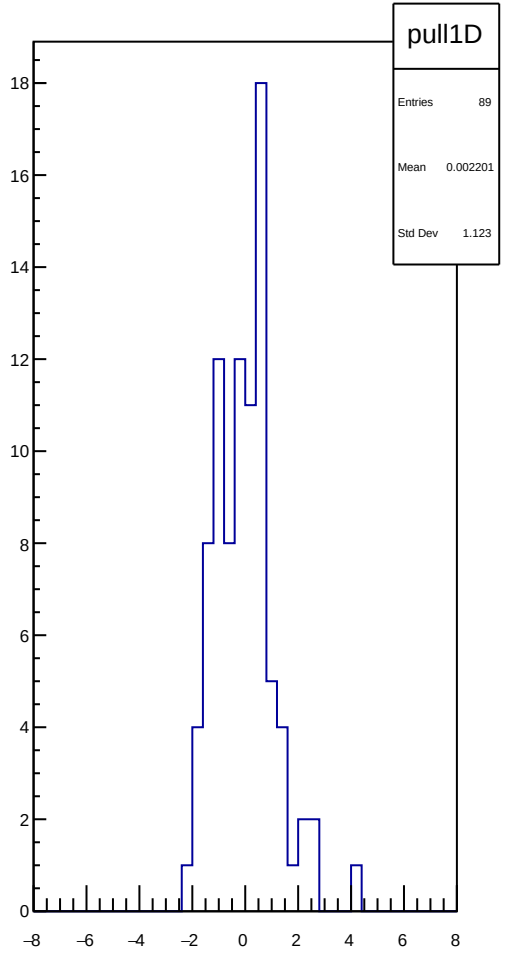

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 2.718e+04 / 88
p0 999.8 ± 0.7529
1600
1400
1200
1000
800
600

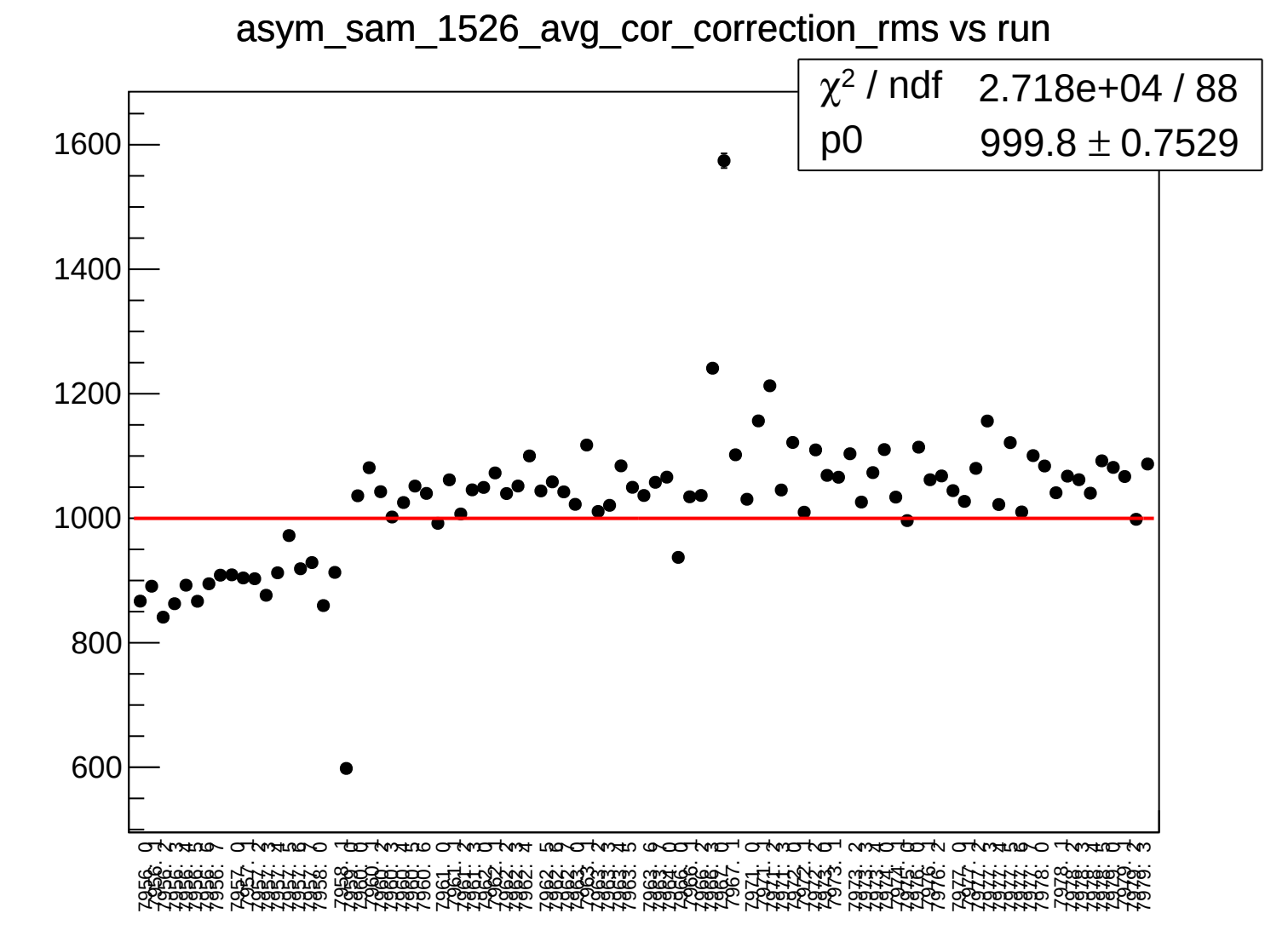

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 107.1 / 88
p0 156.3 ± 145.8
pull
Entries 89
Mean 45.3
Std Dev 24.65

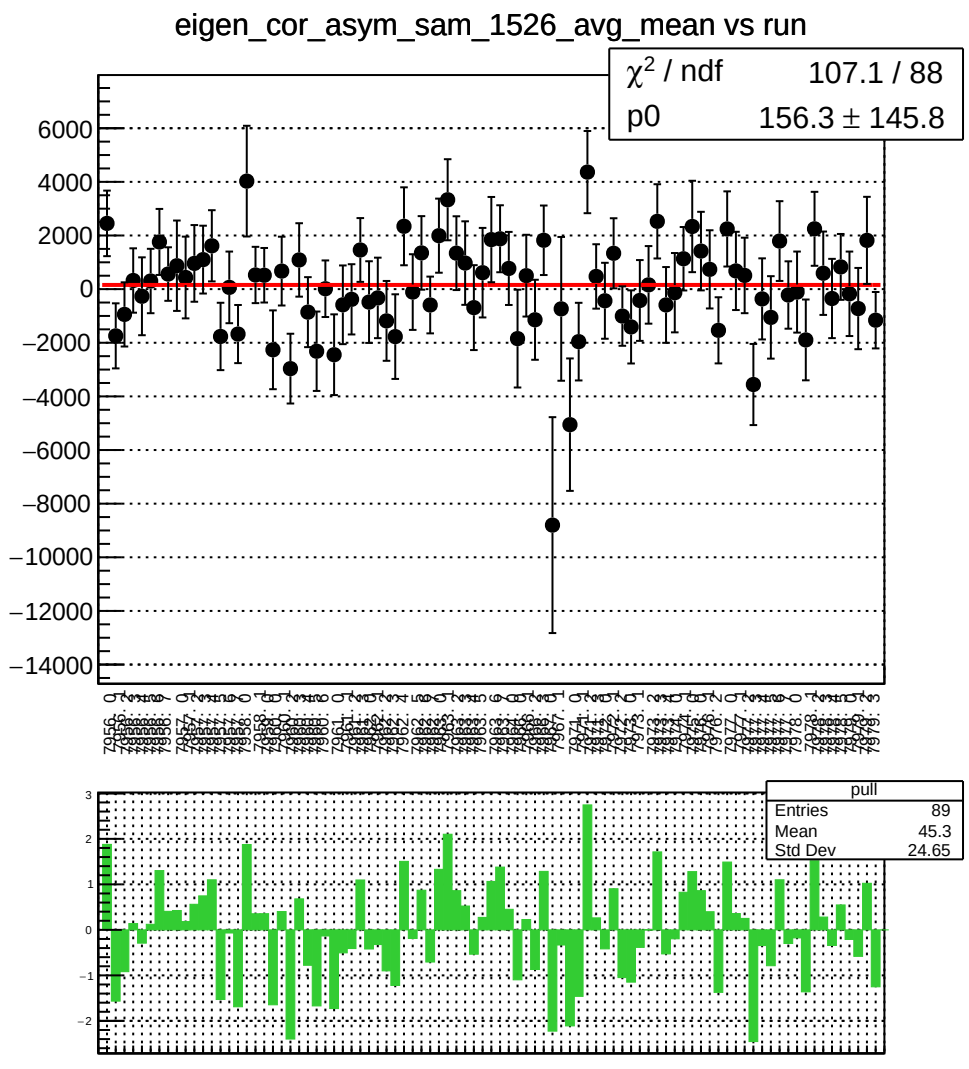

pull1D
Entries 89
Mean −0.01764
Std Dev 1.097

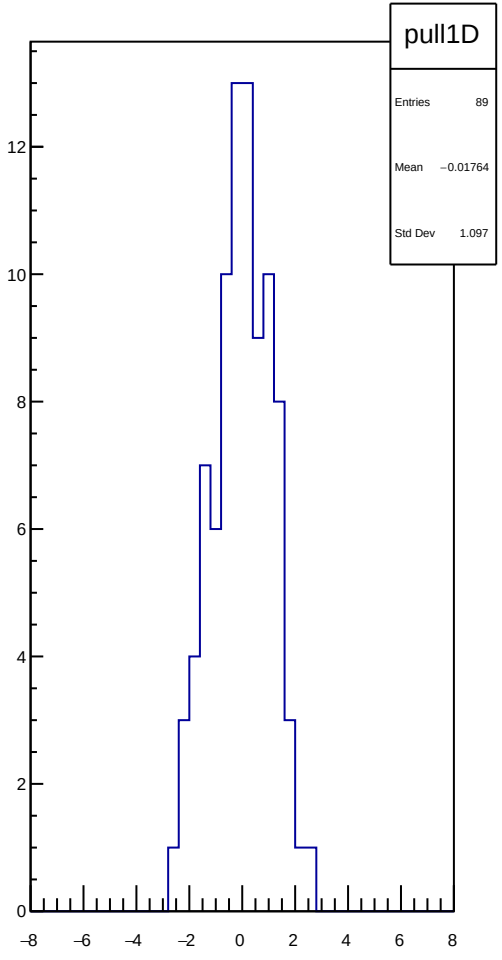

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3.04e+04 / 88
p0 136.8 ± 0.1031
400
350
300
250
200
150
100

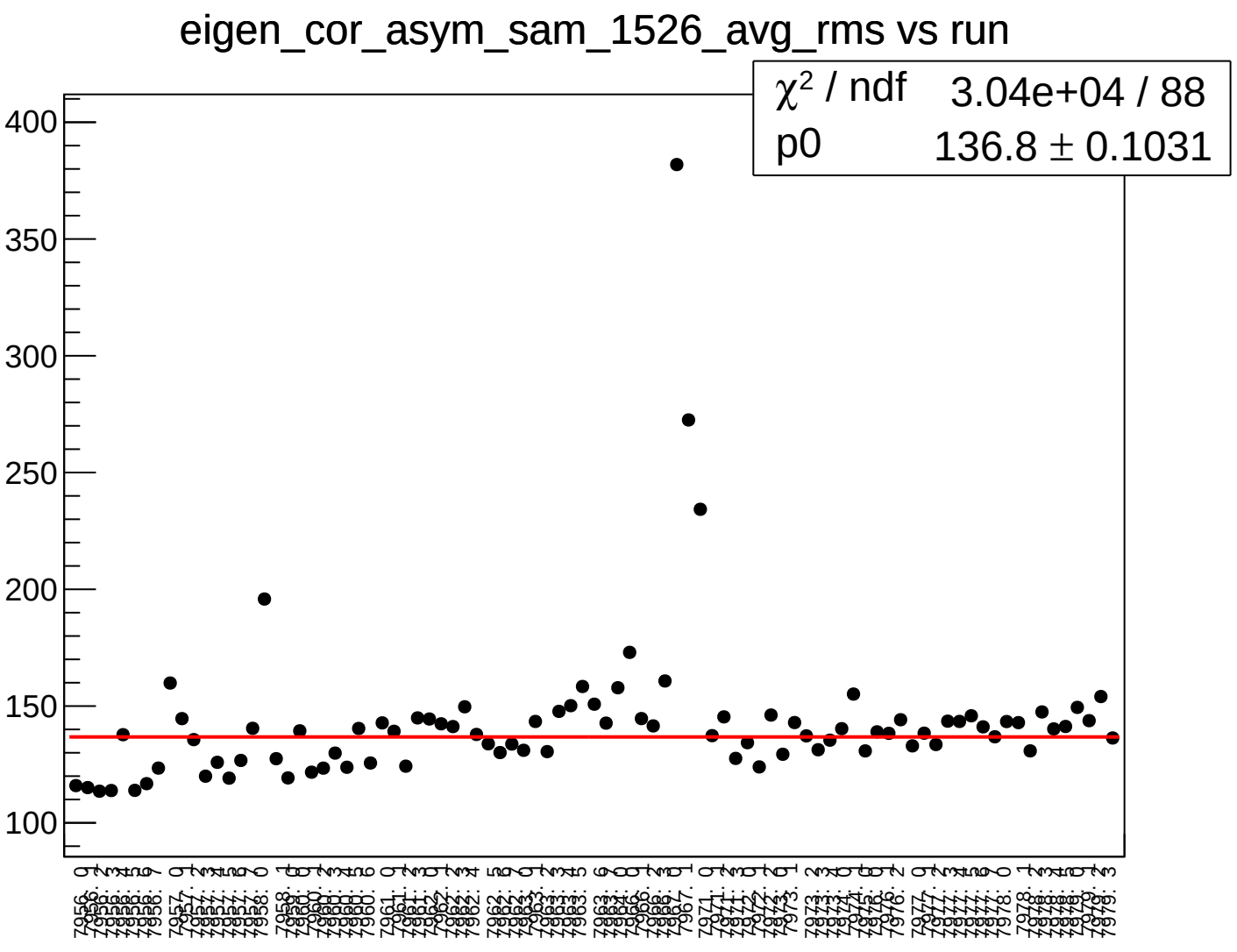

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 112.3 / 88
p0 431.9 ± 1065
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 1638
Std Dev 0
4
3
2
1
0
−1
−2

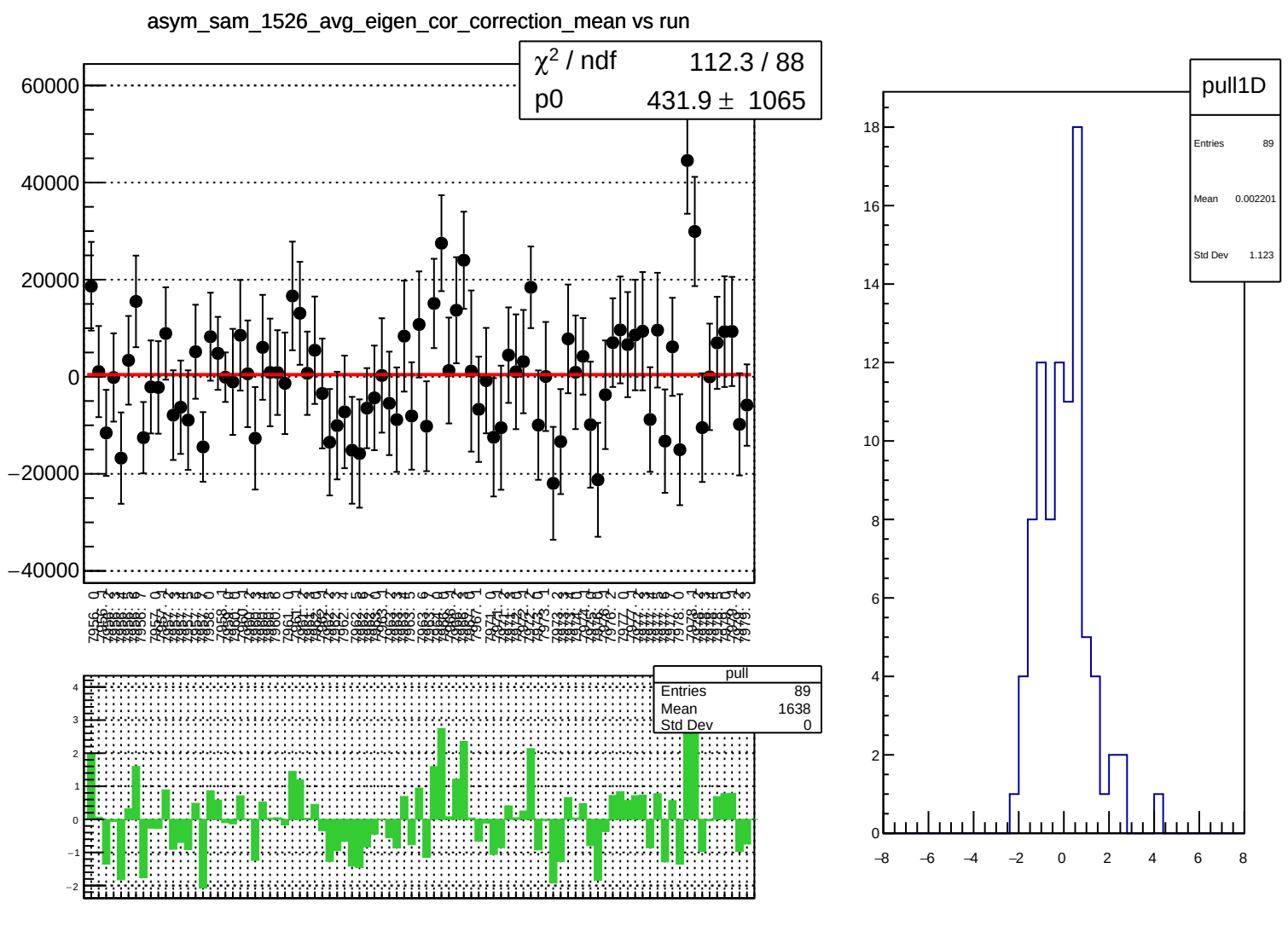

pull1D
Entries 89
Mean 0.002201
Std Dev 1.123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

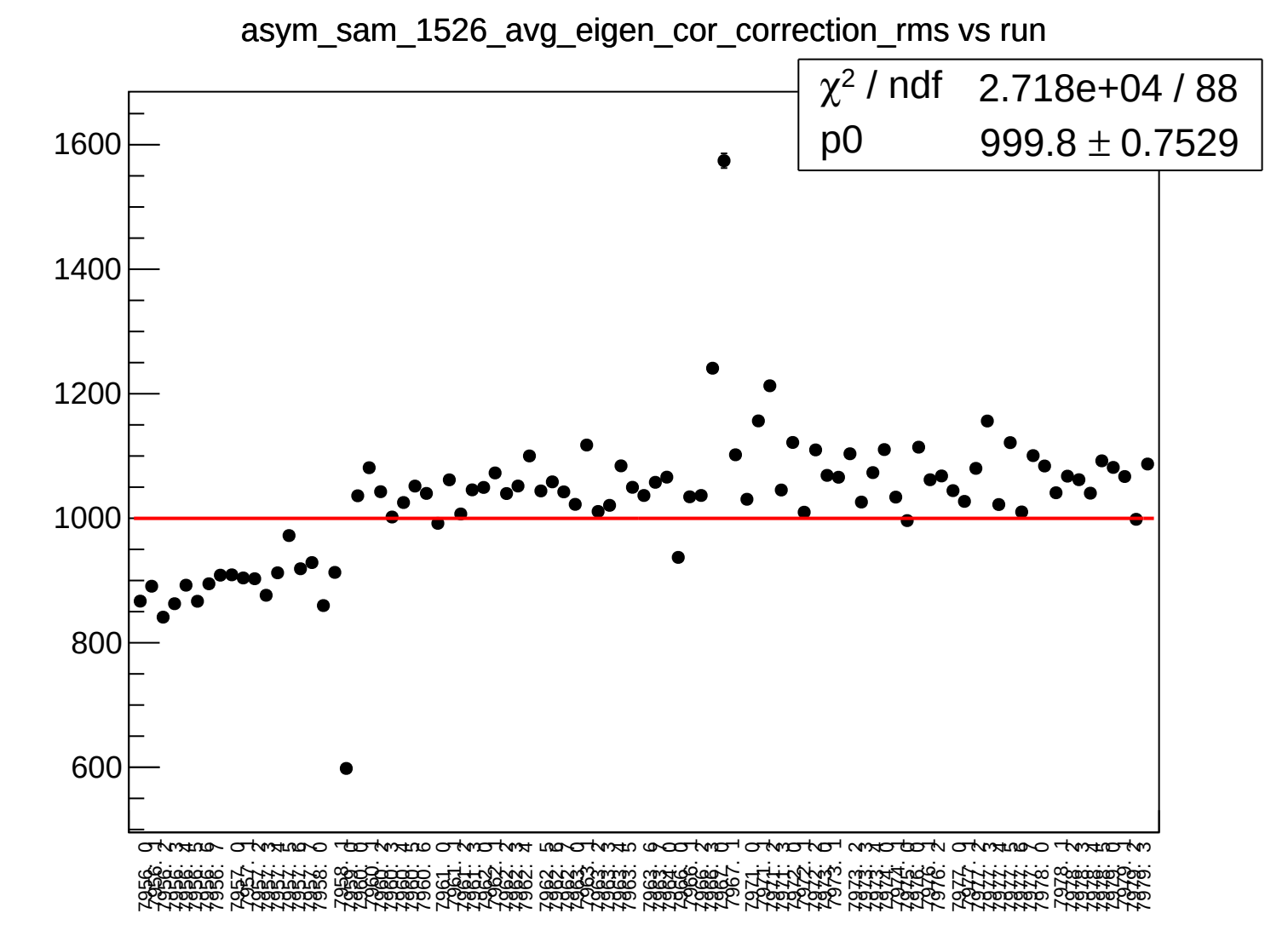

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 2.718e+04 / 88
p0 999.8 ± 0.7529
1600
1400
1200
1000
800
600

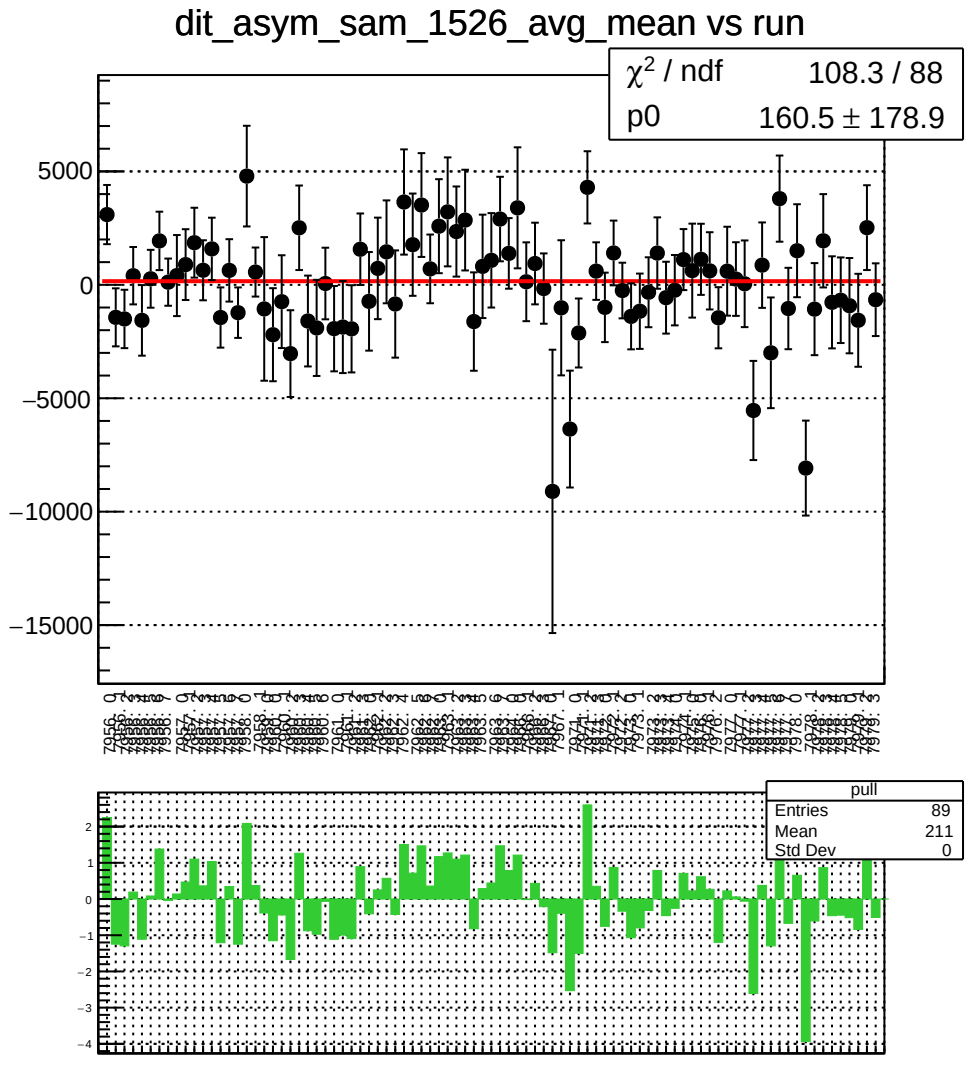

eigen_cor_asym_sam_1526_avg_mean vs run
$\chi^2$ / ndf 107.1 / 88
p0 156.3 ± 145.8
pull
Entries 89
Mean 45.3
Std Dev 24.65

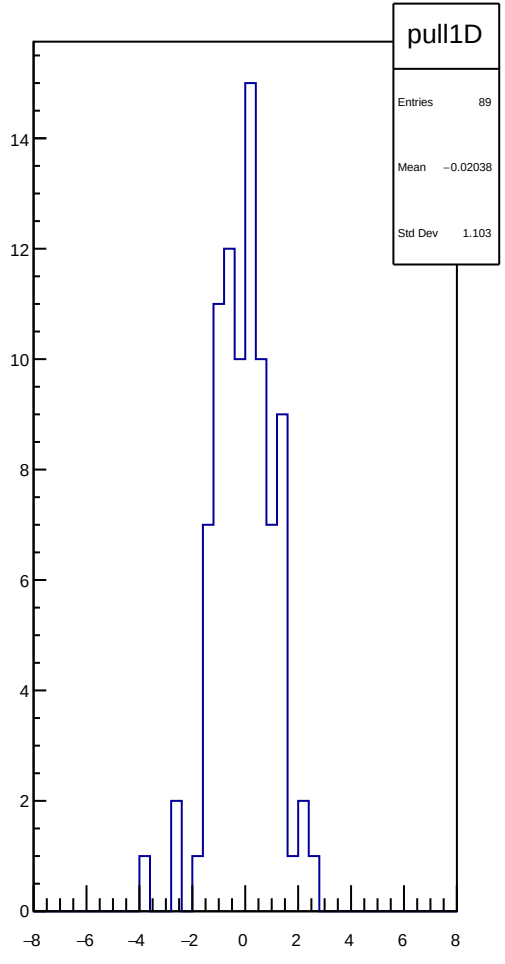

pull1D
Entries 89
Mean −0.01764
Std Dev 1.097

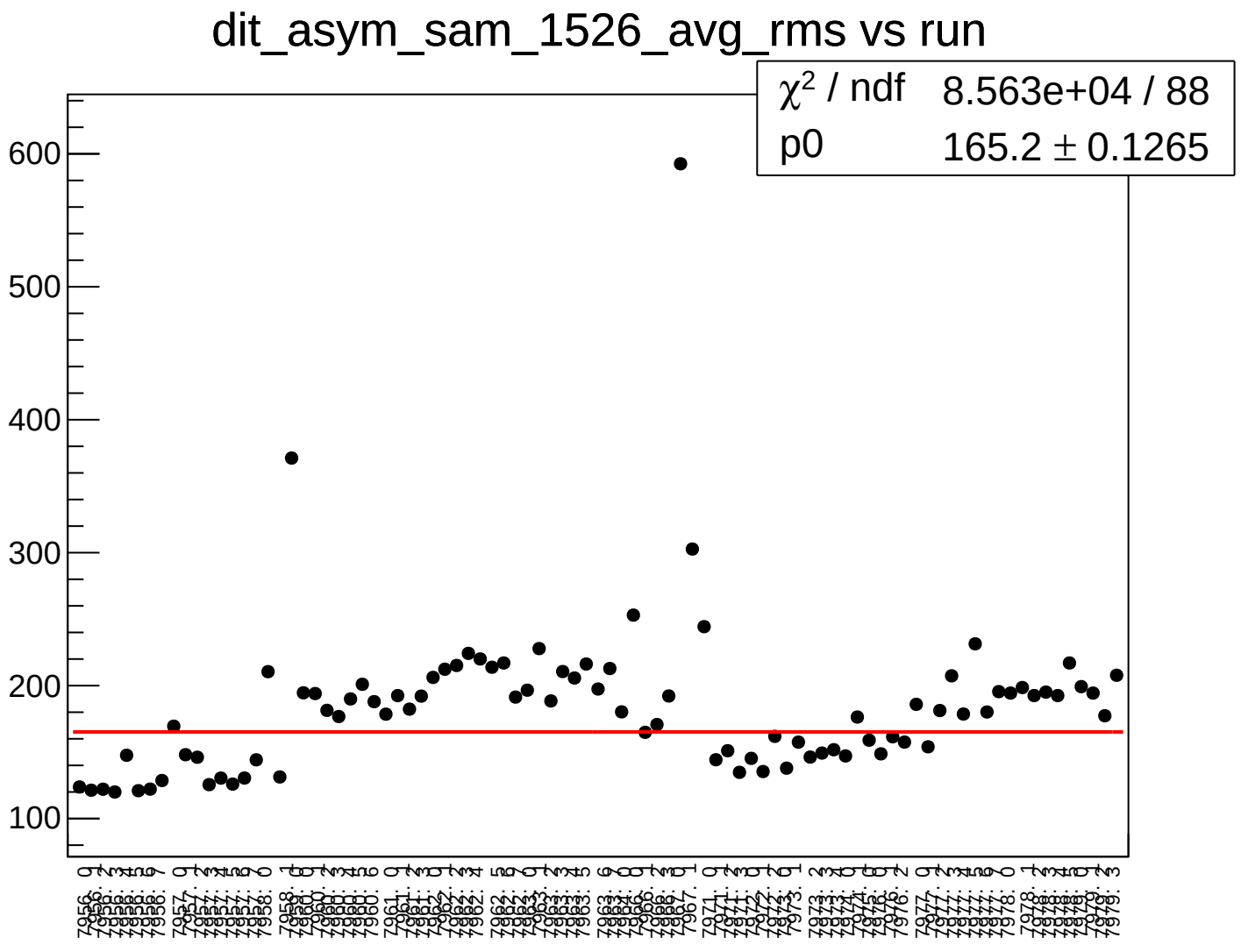

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3.04e+04 / 88
p0 136.8 ± 0.1031
400
350
300
250
200
150
100

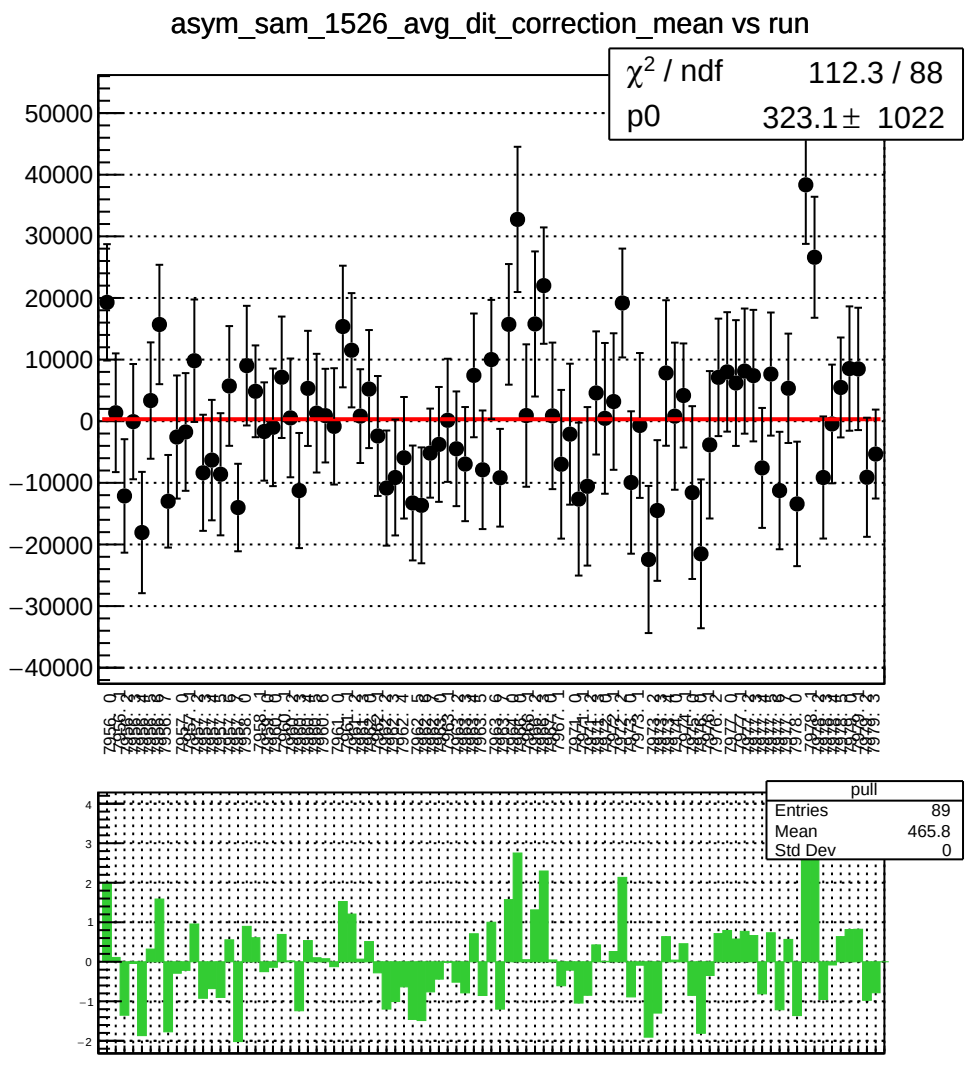

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 112.3 / 88
p0 431.9 ± 1065
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 1638
Std Dev 0
pull1D
Entries 89
Mean 0.002201
Std Dev 1.123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

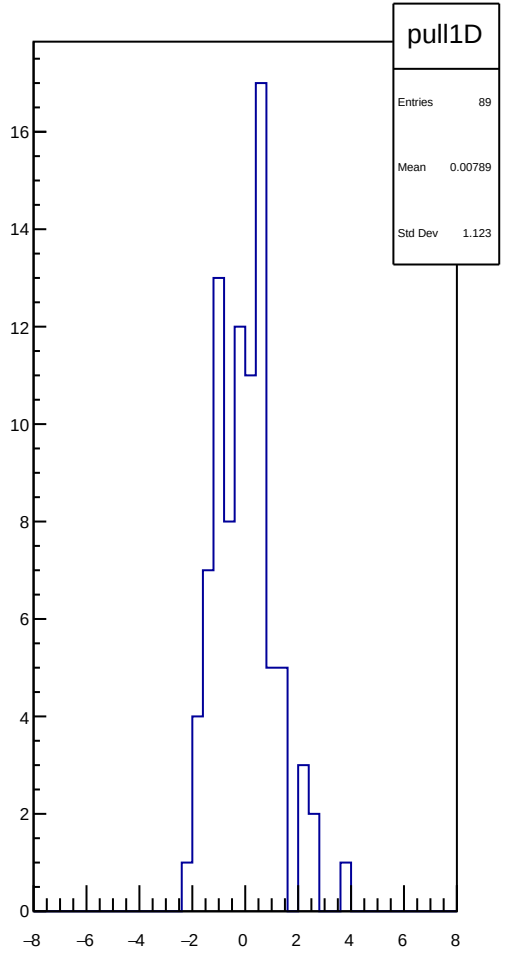

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.718e+04 / 88
p0 999.8 ± 0.7529
1600
1400
1200
1000
800
600

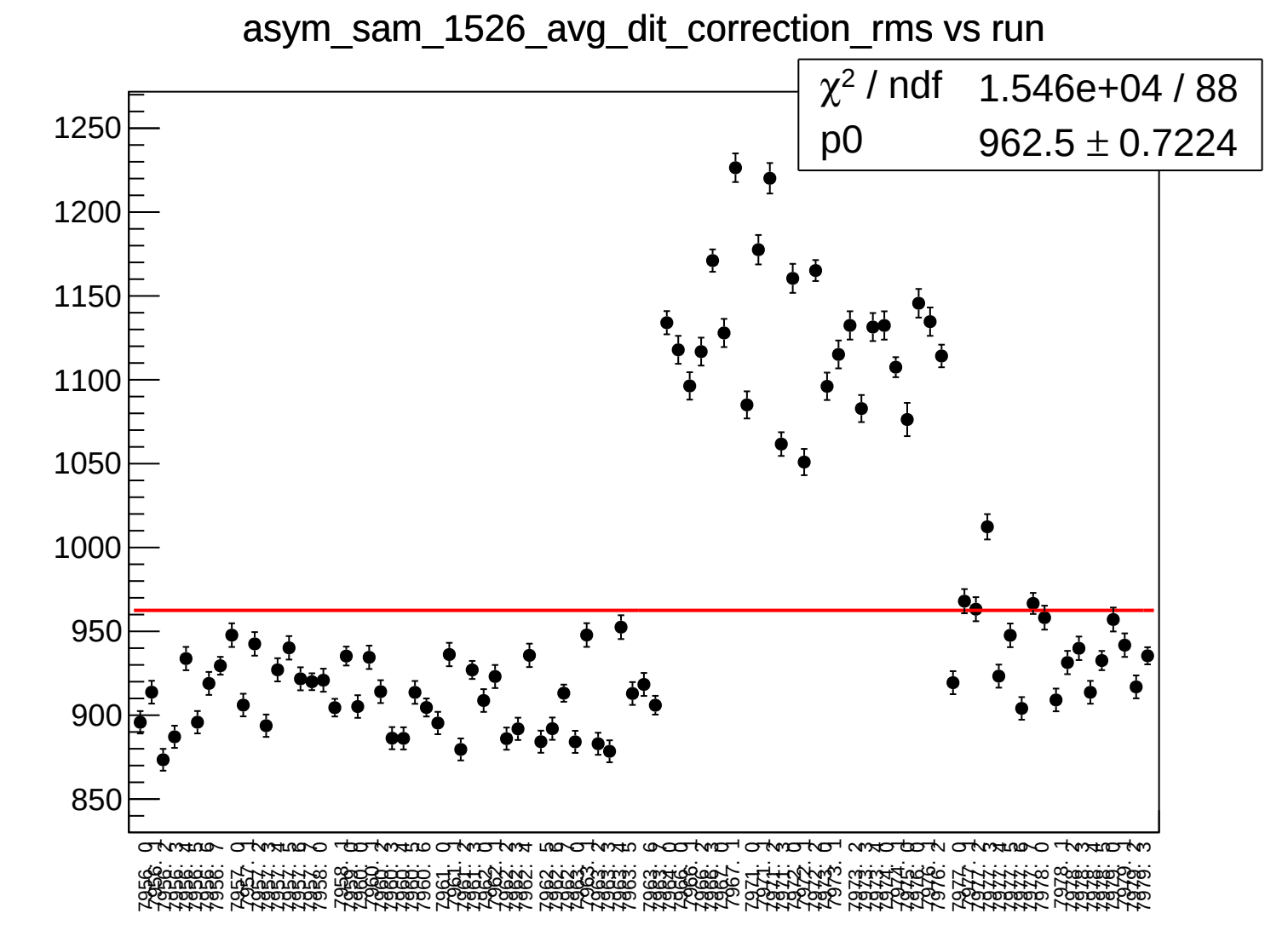

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 108.3 / 88
p0 160.5 ± 178.9
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 211
Std Dev 0
2
1
0
−1
−2
−3
−4

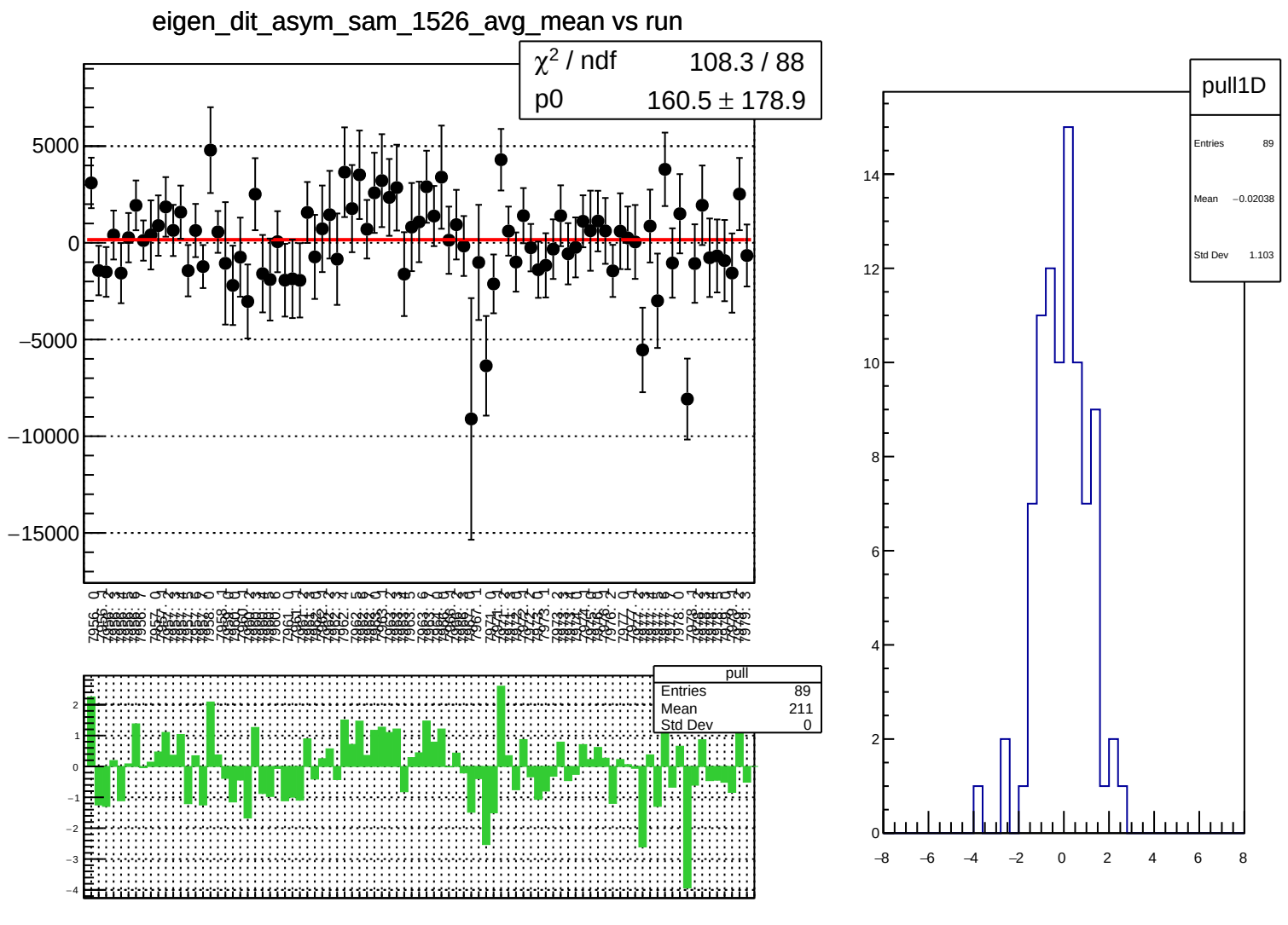

pull1D
Entries 89
Mean −0.02038
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

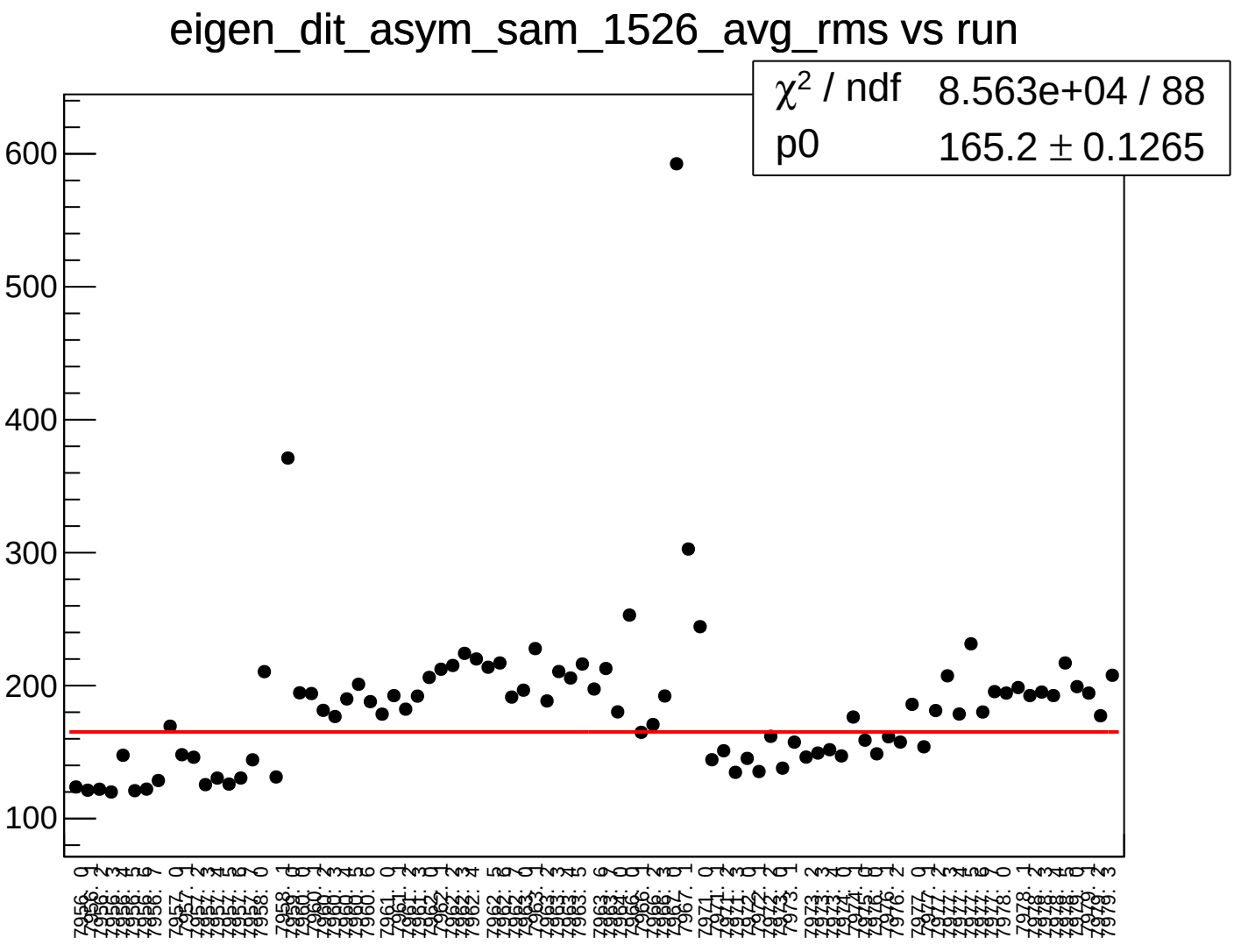

dit_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 8.563e+04 / 88
p0 165.2 ± 0.1265
600
500
400
300
200
100

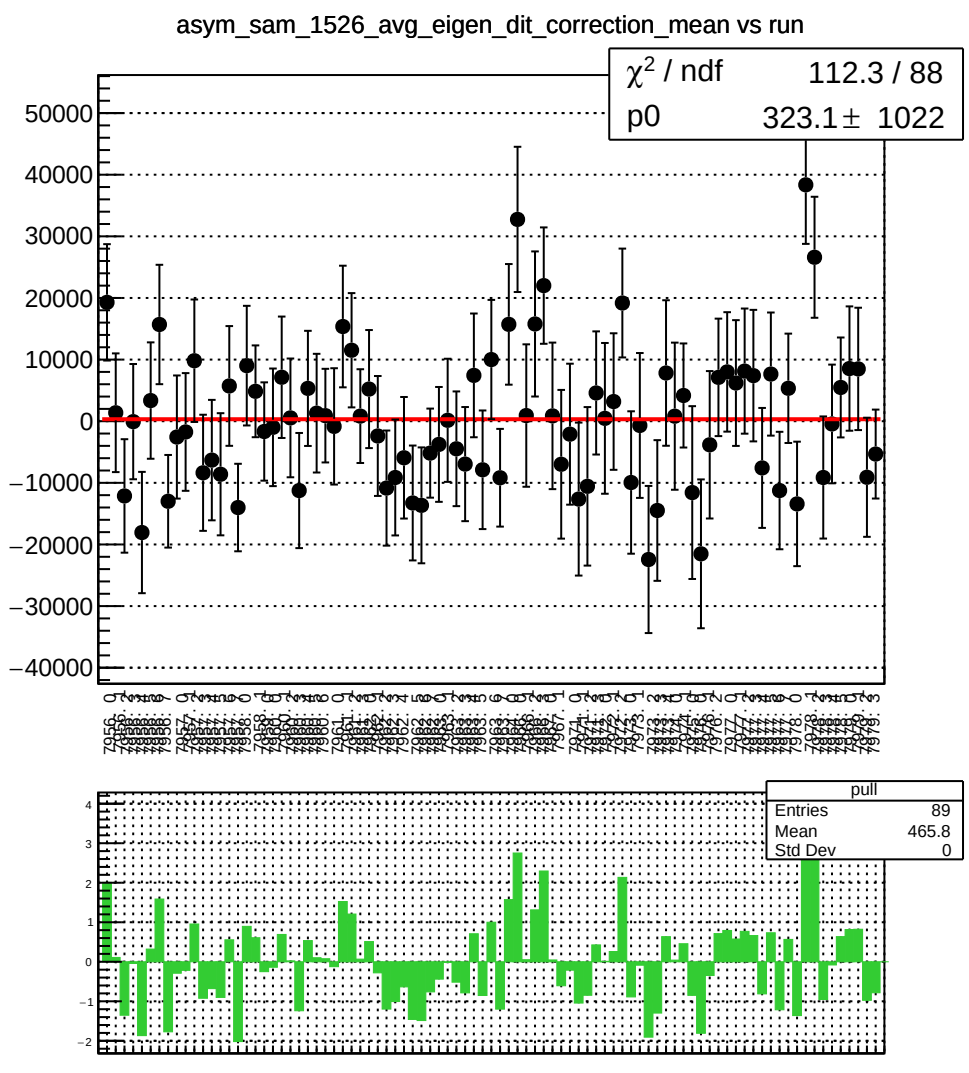

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 112.3 / 88
p0 323.1 ± 1022
pull
Entries 89
Mean 465.8
Std Dev 0

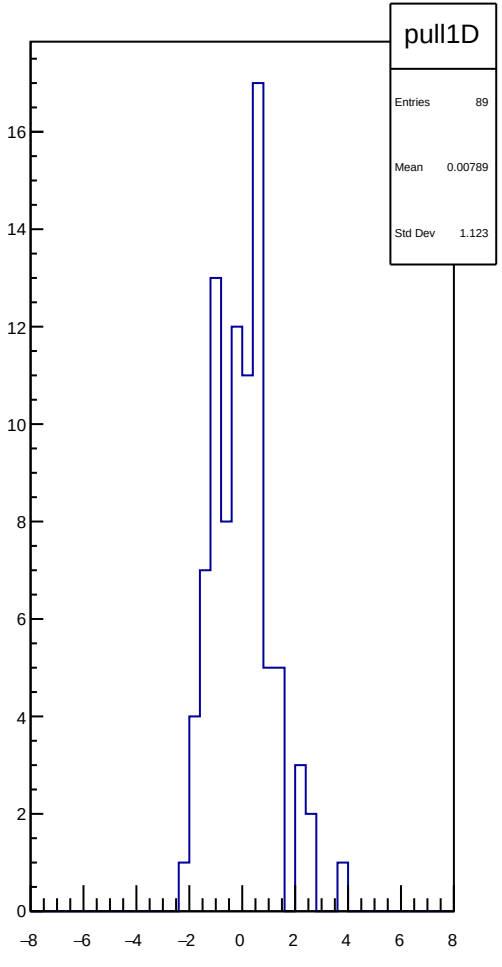

pull1D
Entries 89
Mean 0.00789
Std Dev 1.123

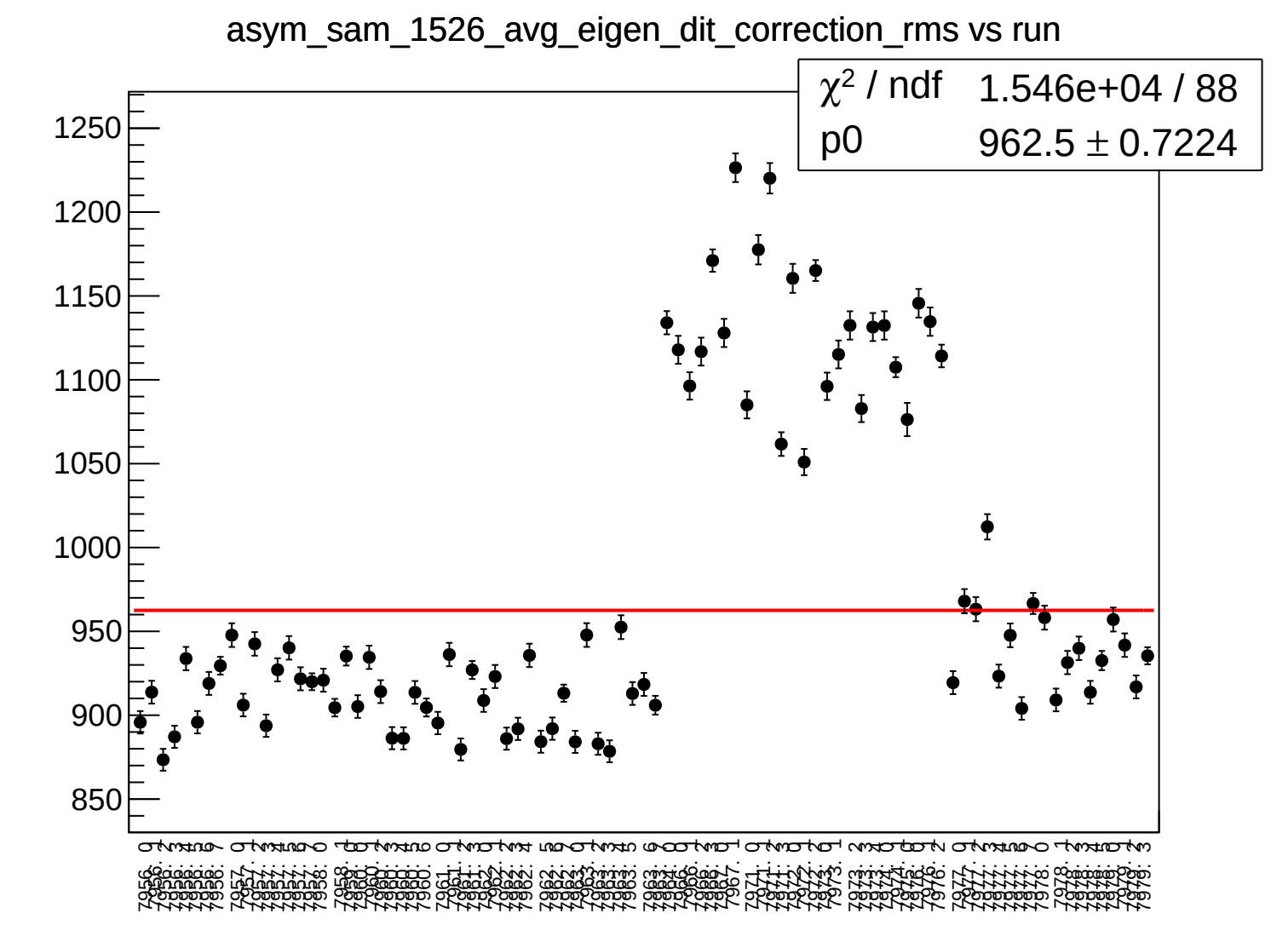

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.546e+04 / 88
p0 962.5 ± 0.7224
1250
1200
1150
1100
1050
1000
950
900
850

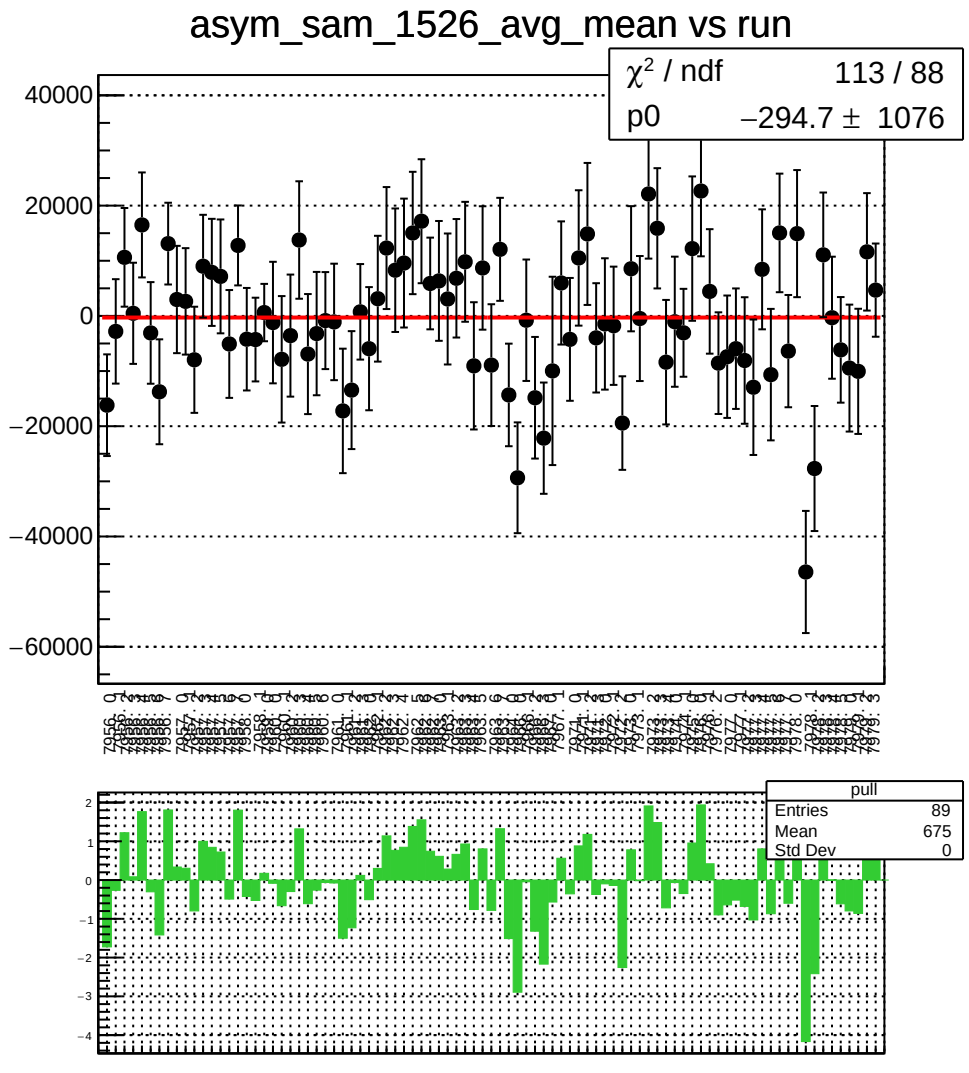

eigen_dit_asym_sam_1526_avg_mean vs run
$\chi^2$ / ndf 108.3 / 88
p0 160.5 ± 178.9
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 211
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean −0.02038
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

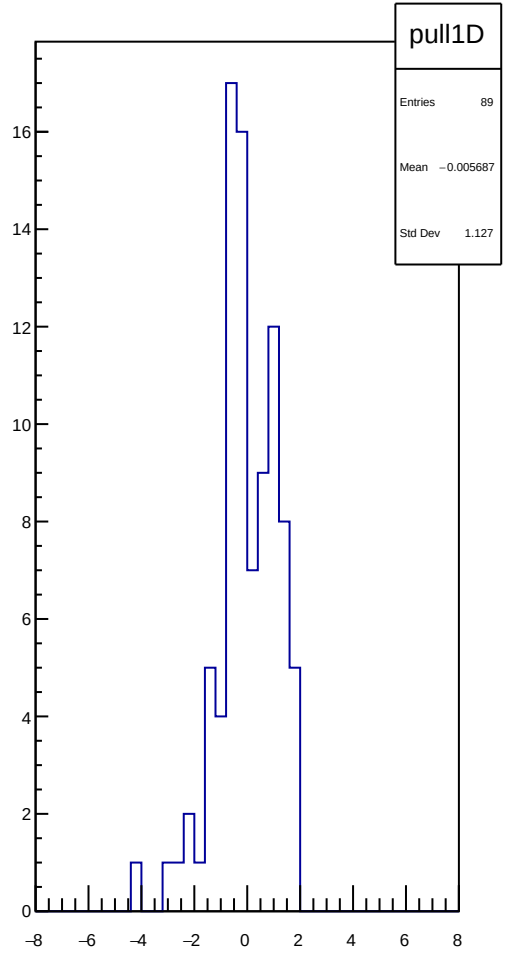

eigen_dit_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 8.563e+04 / 88
p0 165.2 ± 0.1265
600
500
400
300
200
100

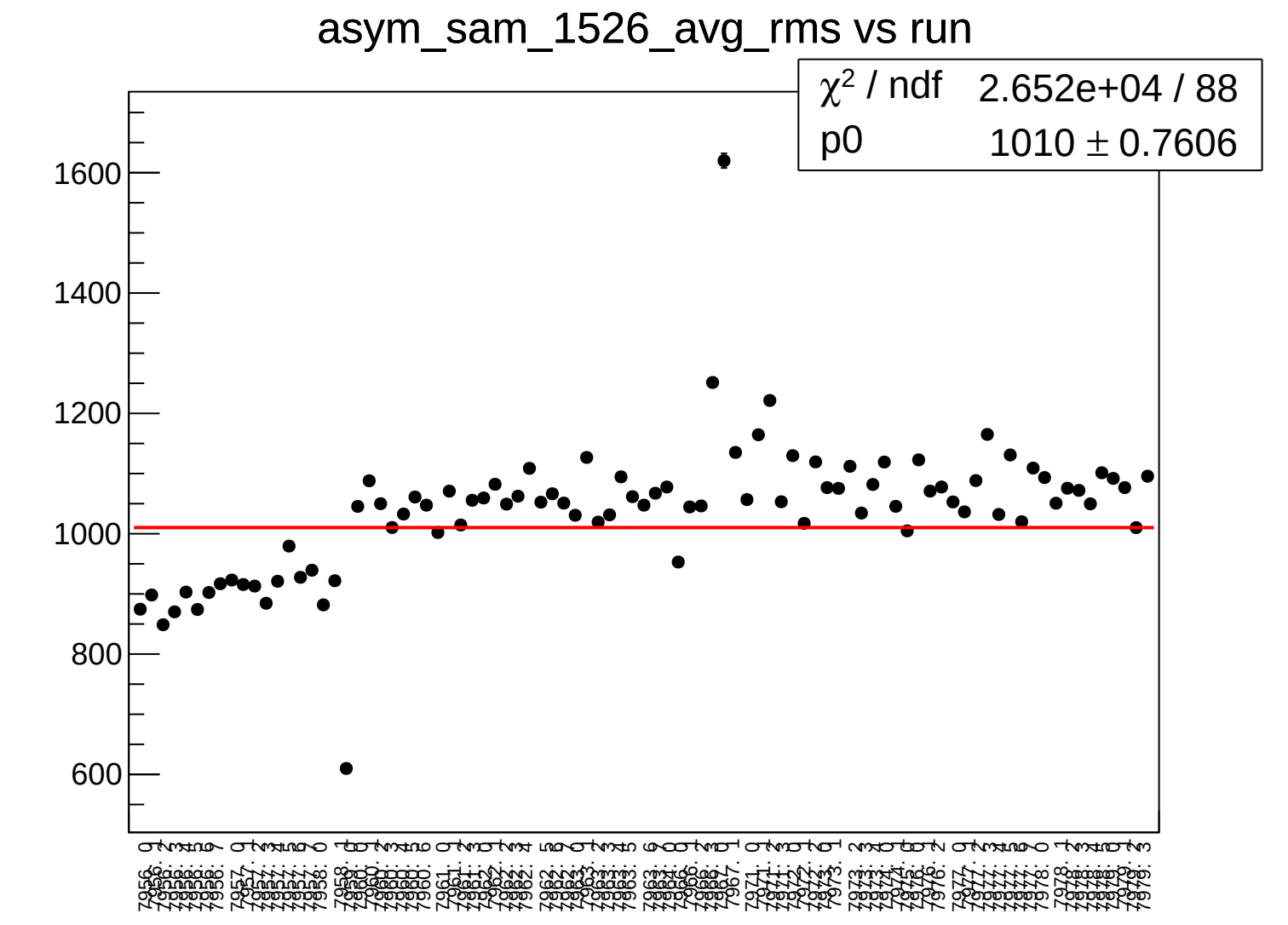

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 112.3 / 88
p0 323.1 ± 1022
pull
Entries 89
Mean 465.8
Std Dev 0

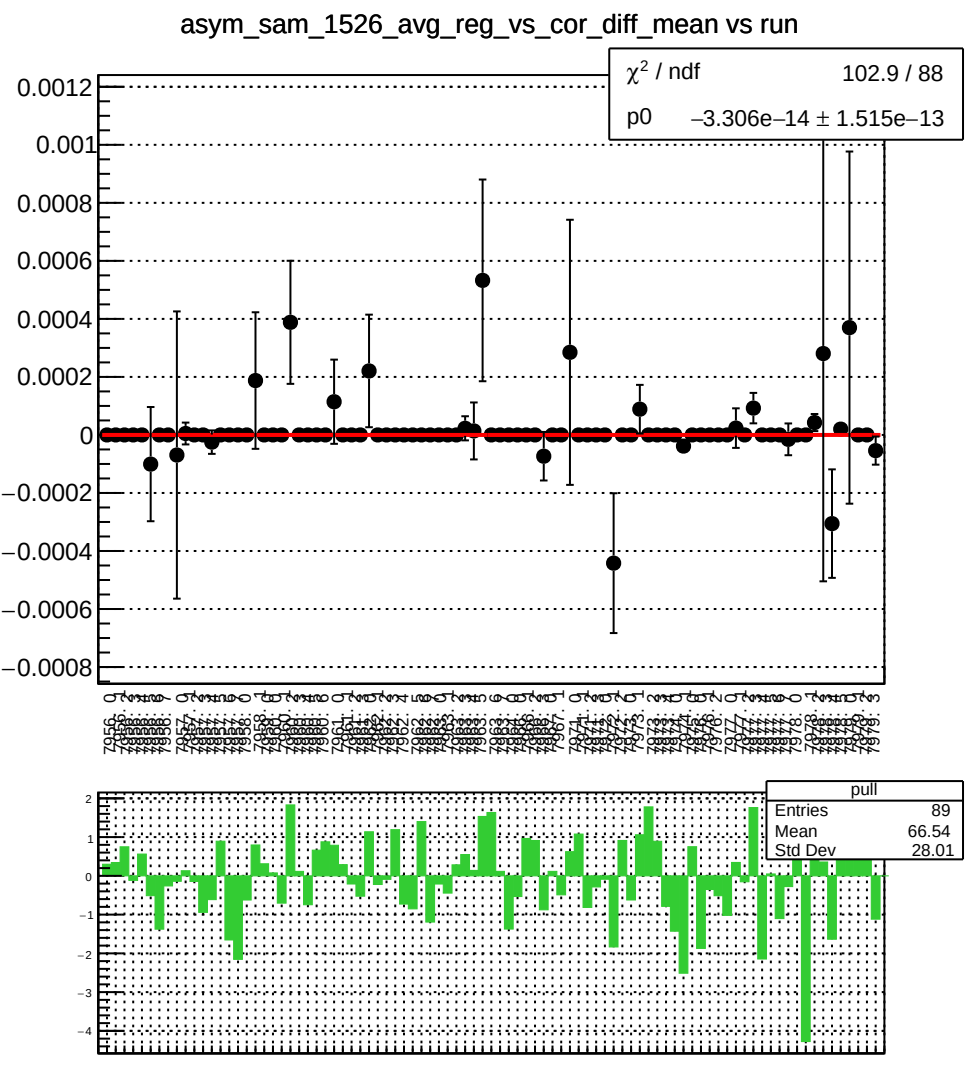

pull1D
Entries 89
Mean 0.00789
Std Dev 1.123

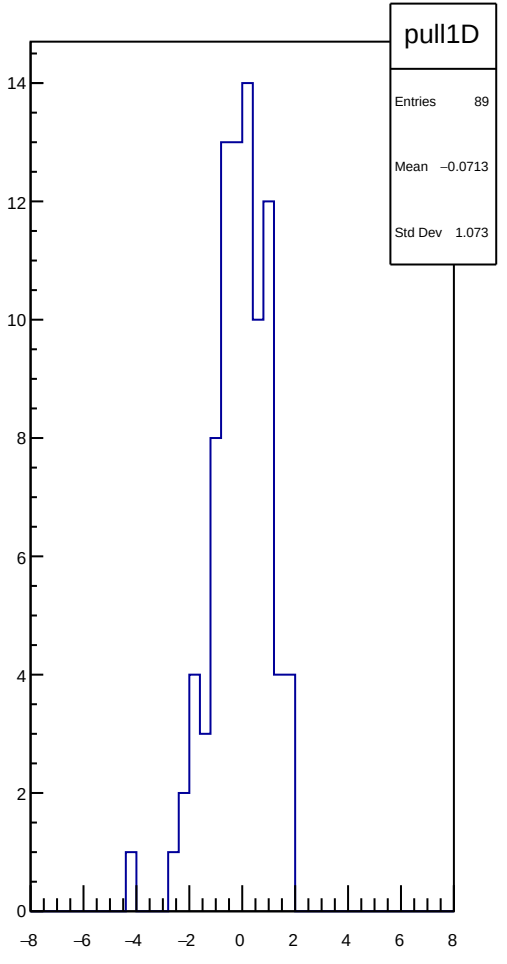

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.546e+04 / 88
p0 962.5 ± 0.7224
1250
1200
1150
1100
1050
1000
950
900
850

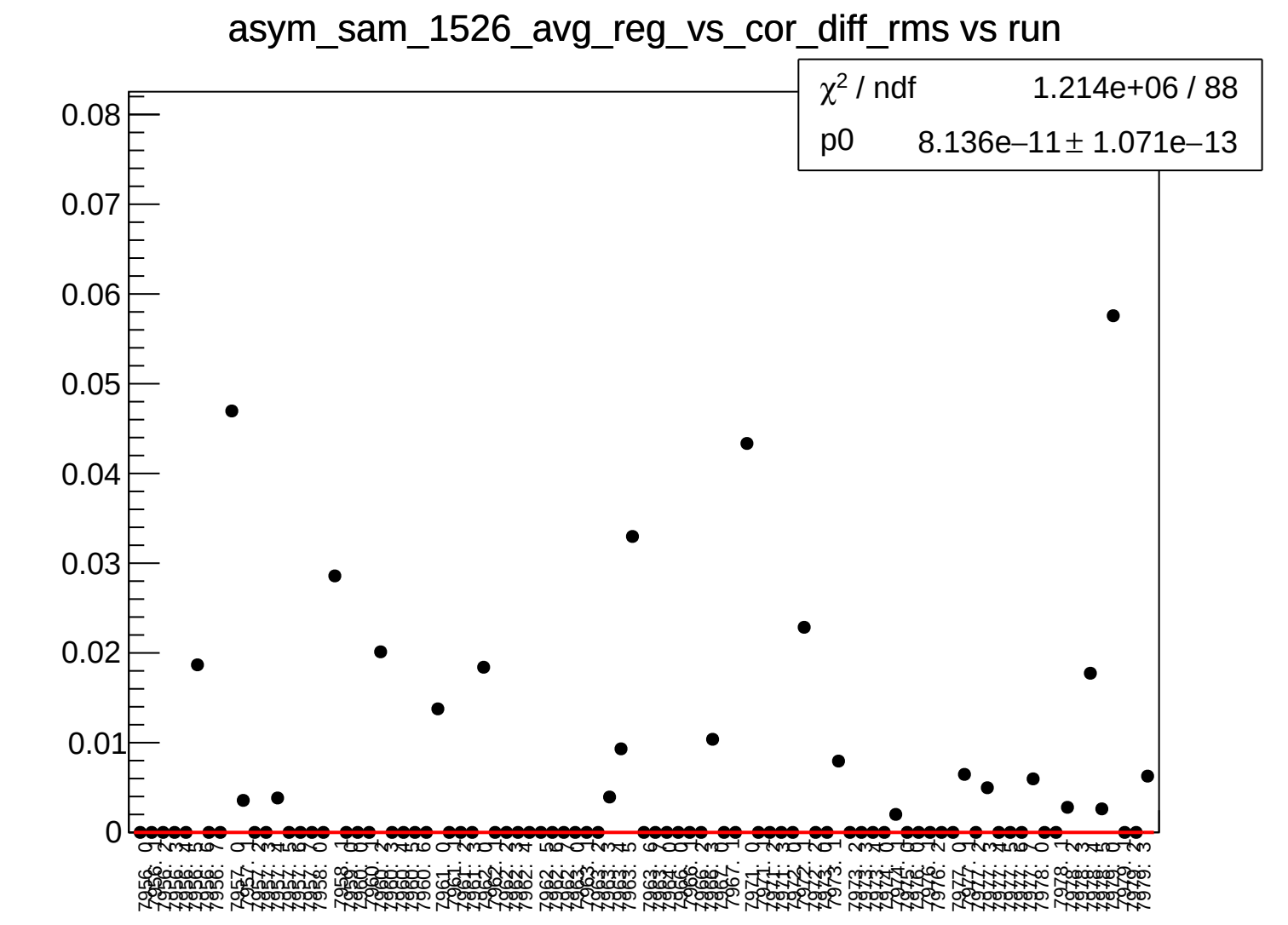

asym_sam_1526_avg_mean vs run
χ² / ndf 113 / 88
p0 −294.7 ± 1076
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 675
Std Dev 0
2
1
0
−1
−2
−3
−4

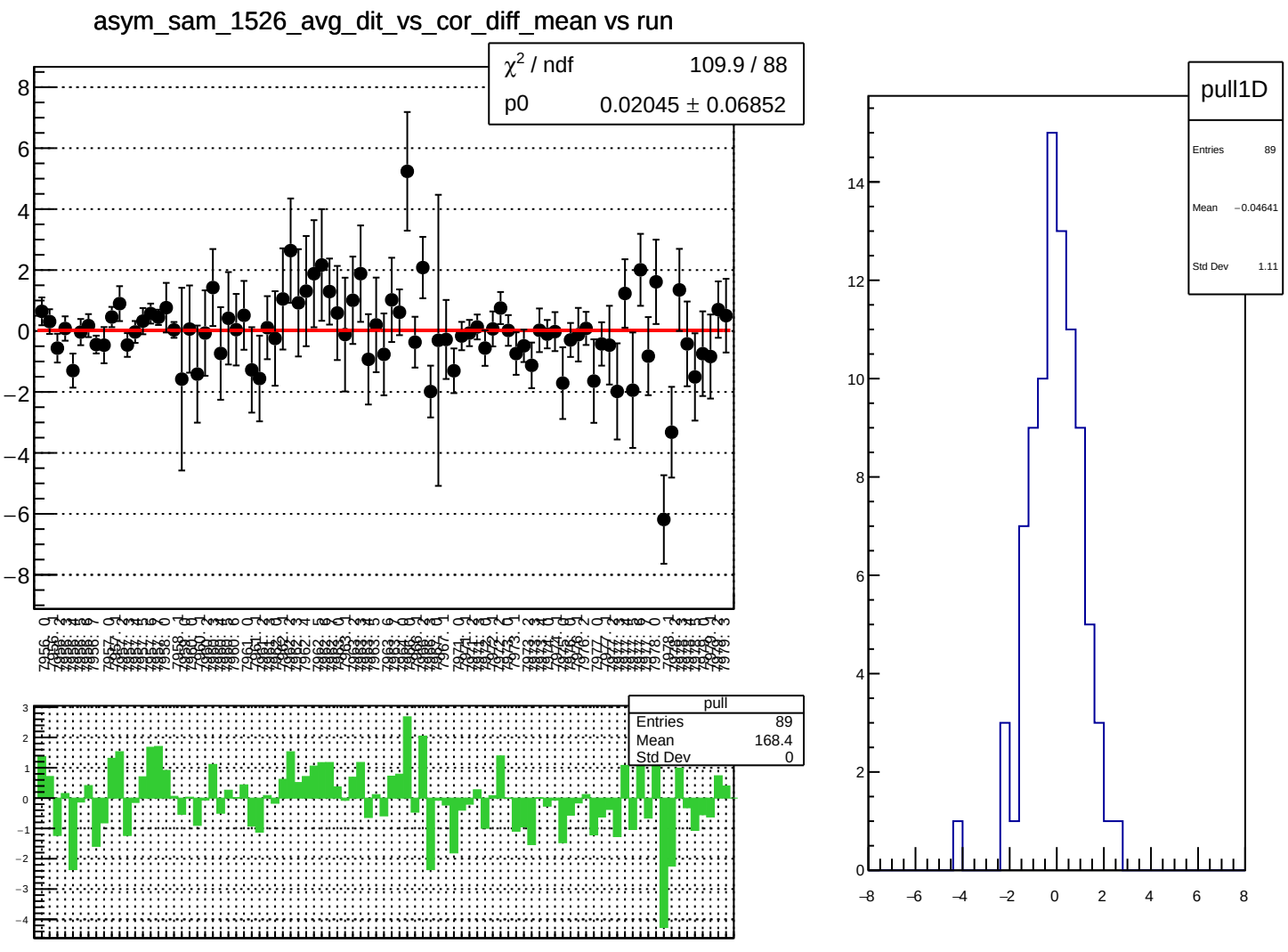

pull1D
Entries 89
Mean −0.005687
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

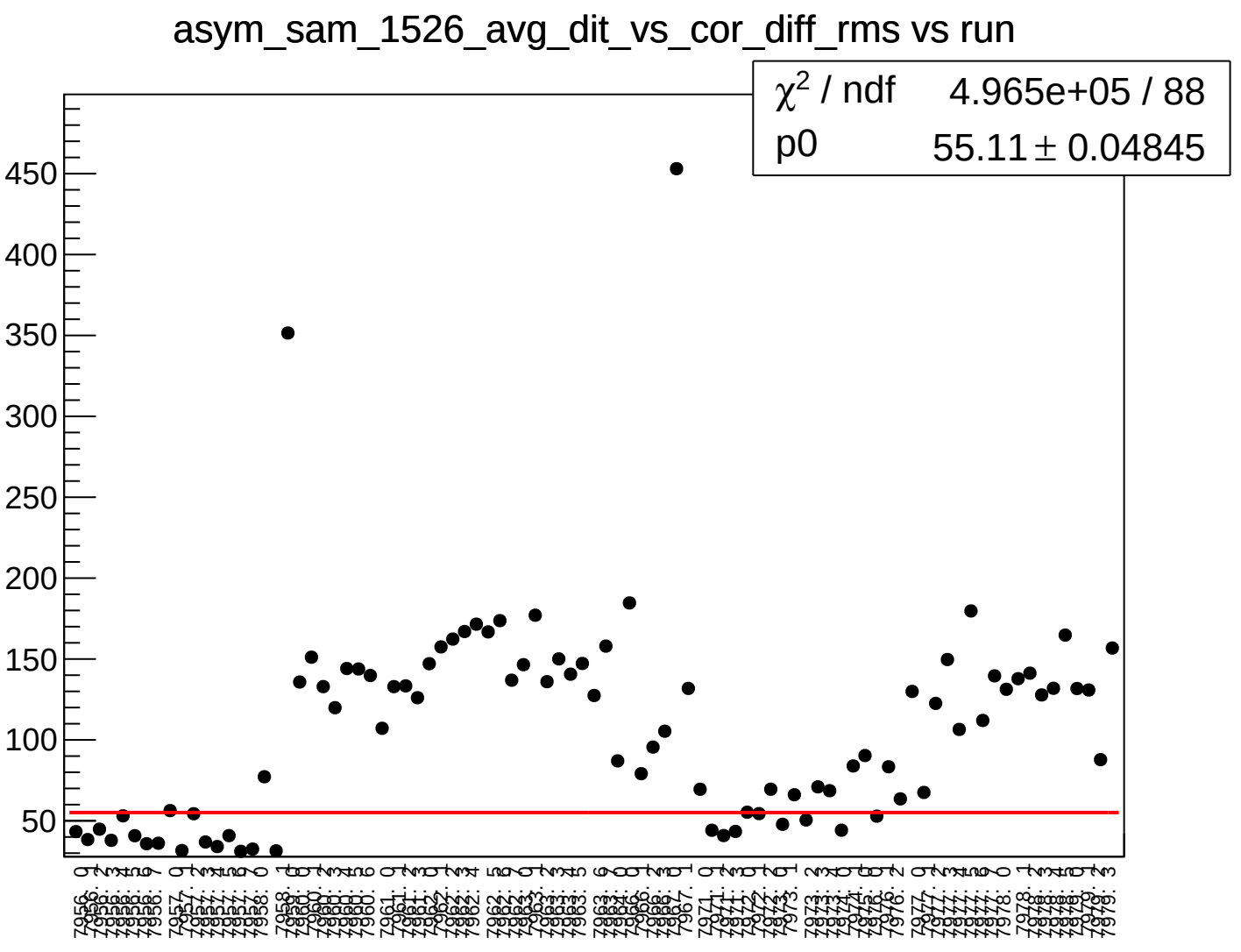

asym_sam_1526_avg_rms vs run
χ² / ndf 2.652e+04 / 88
p0 1010 ± 0.7606
1600
1400
1200
1000
800
600

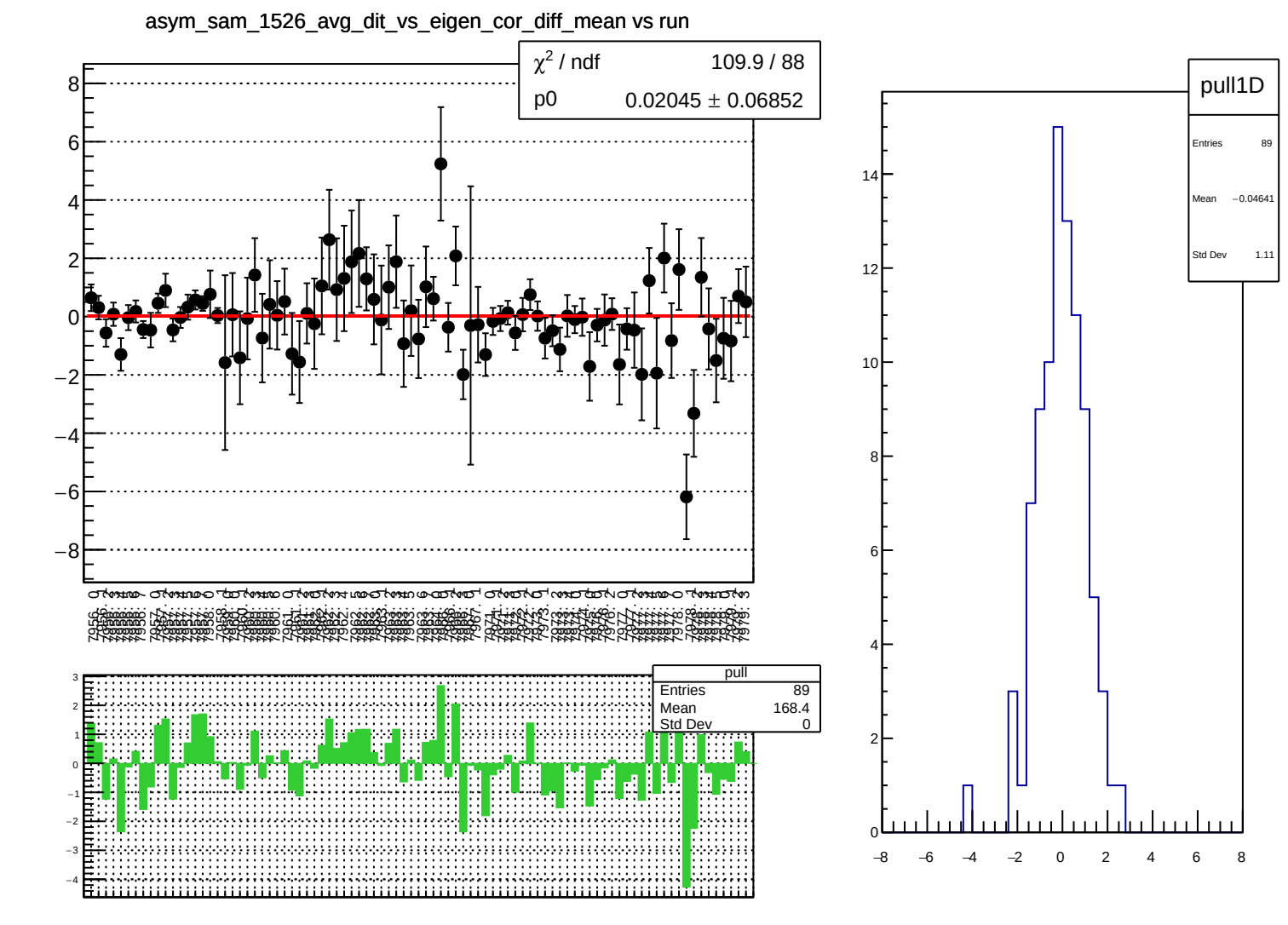

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 88
p0 −3.306e−14 ± 1.515e−13
pull
Entries 89
Mean 66.54
Std Dev 28.01

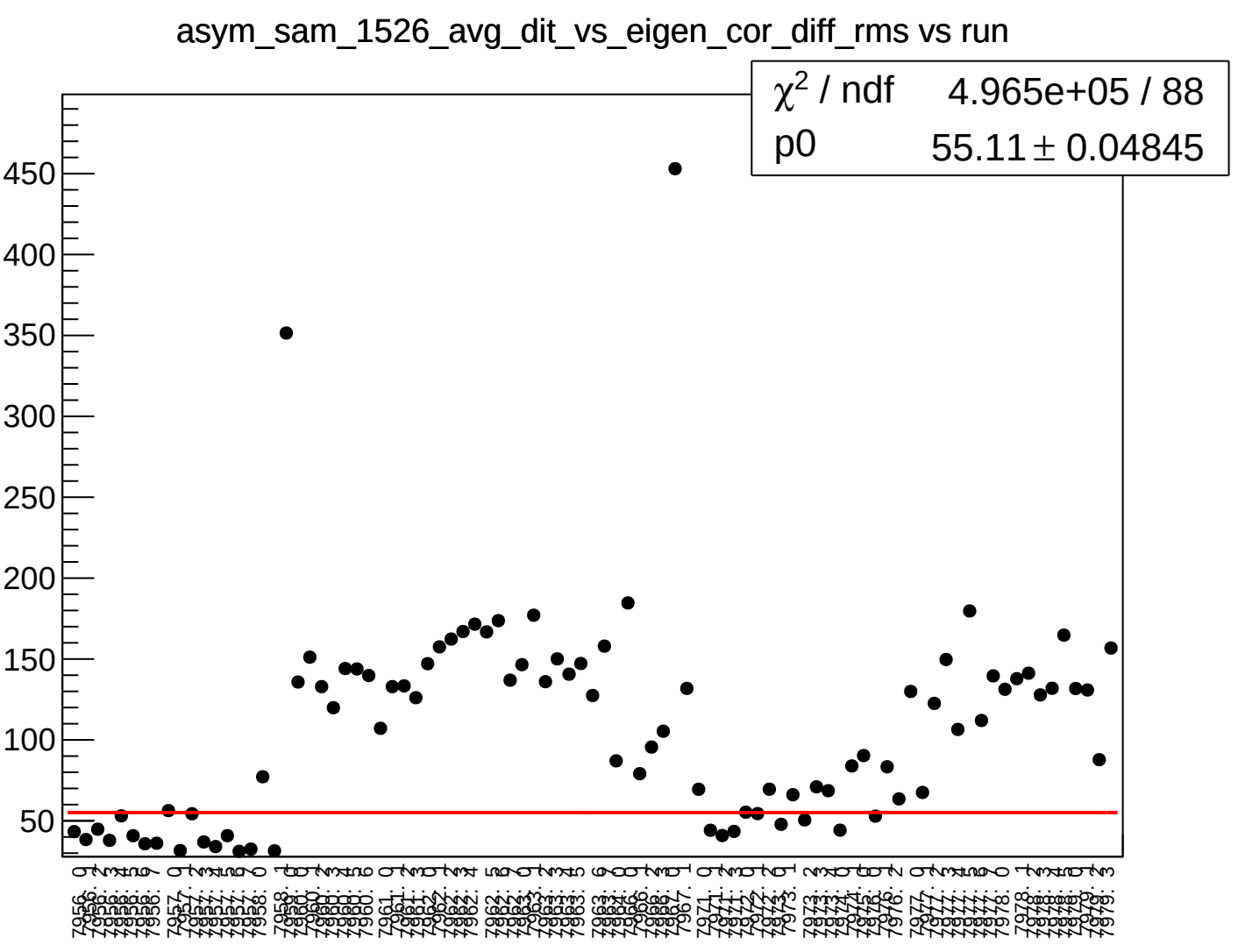

pull1D
Entries 89
Mean −0.0713
Std Dev 1.073

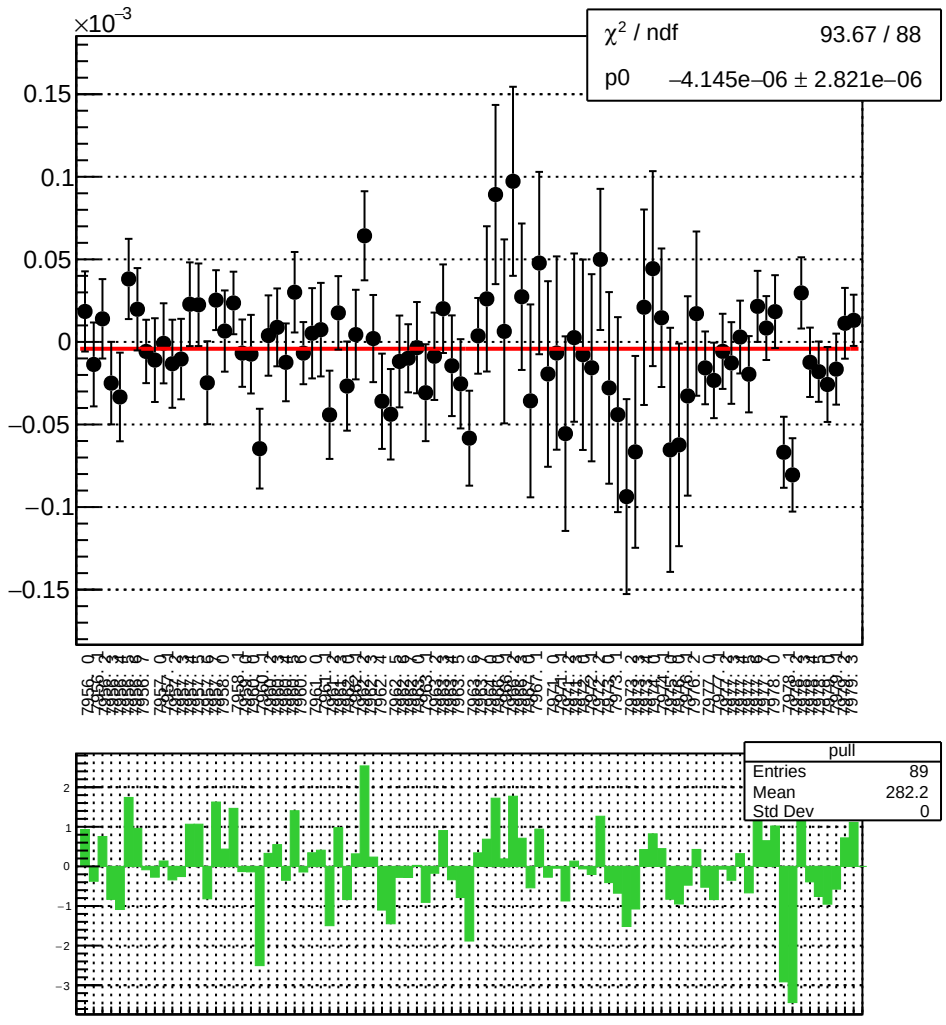

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.214e+06 / 88
p0 8.136e−11 ± 1.071e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

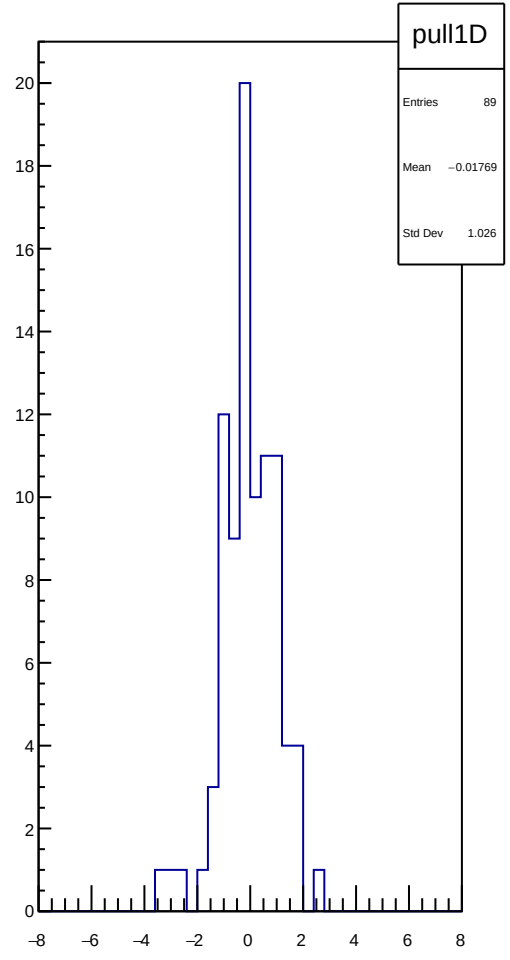

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109.9 / 88
p0 0.02045 ± 0.06852
pull
Entries 89
Mean 168.4
Std Dev 0
pull1D
Entries 89
Mean −0.04641
Std Dev 1.11

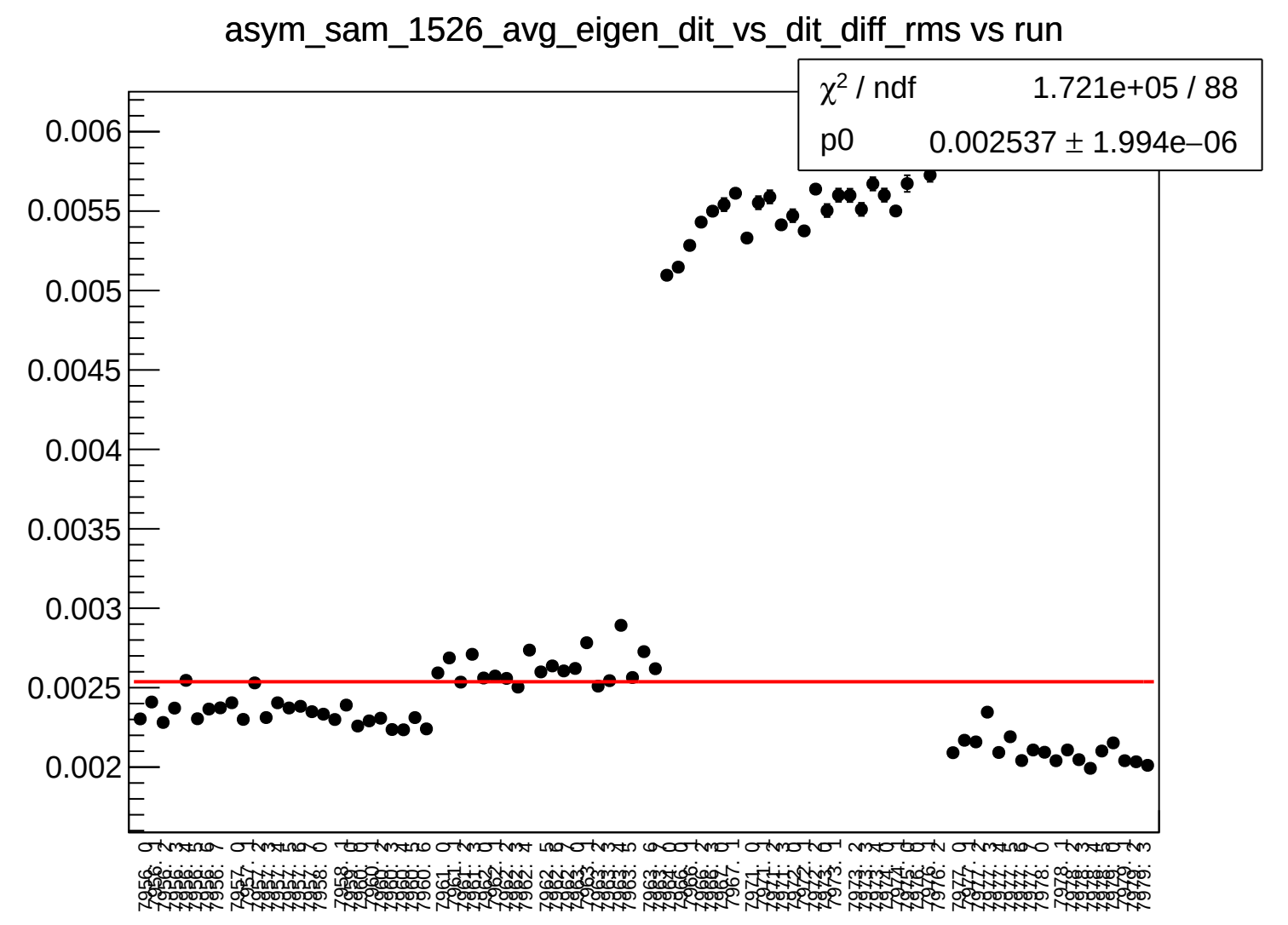

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.965e+05 / 88
p0 55.11 ± 0.04845
450
400
350
300
250
200
150
100
50

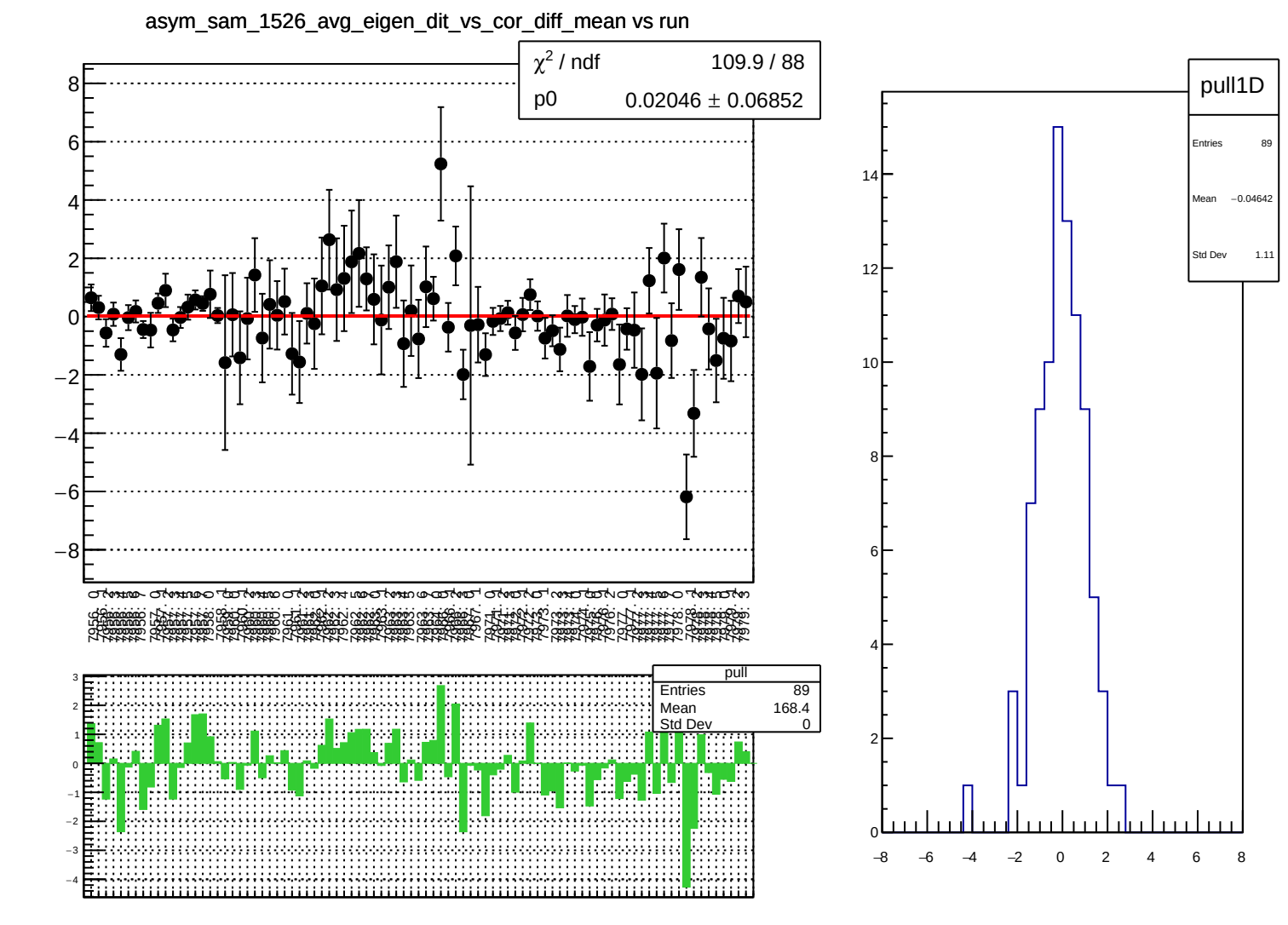

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.9 / 88
p0 0.02045 ± 0.06852
pull
Entries 89
Mean 168.4
Std Dev 0
pull1D
Entries 89
Mean −0.04641
Std Dev 1.11

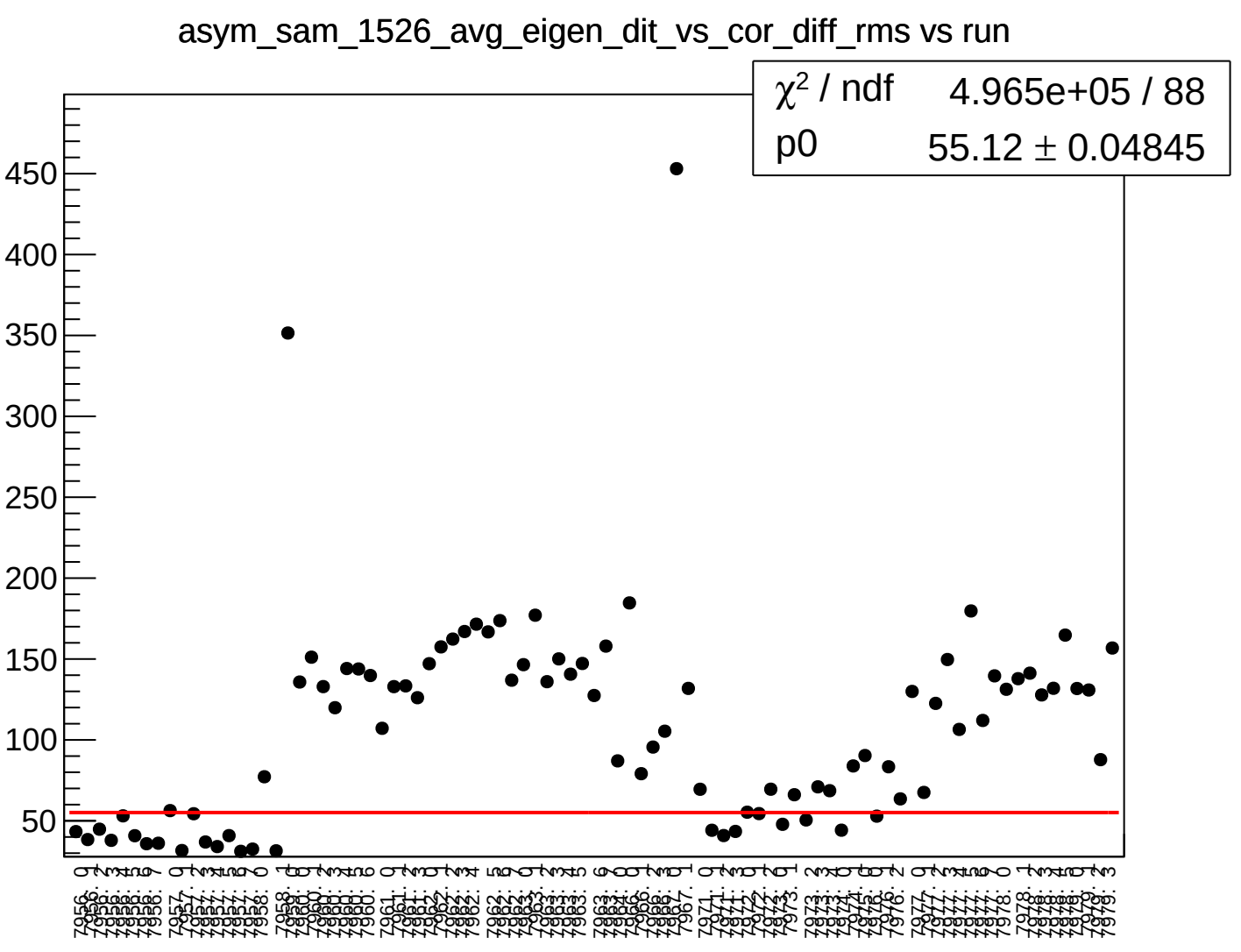

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 4.965e+05 / 88
p0 55.11 ± 0.04845
450
400
350
300
250
200
150
100
50

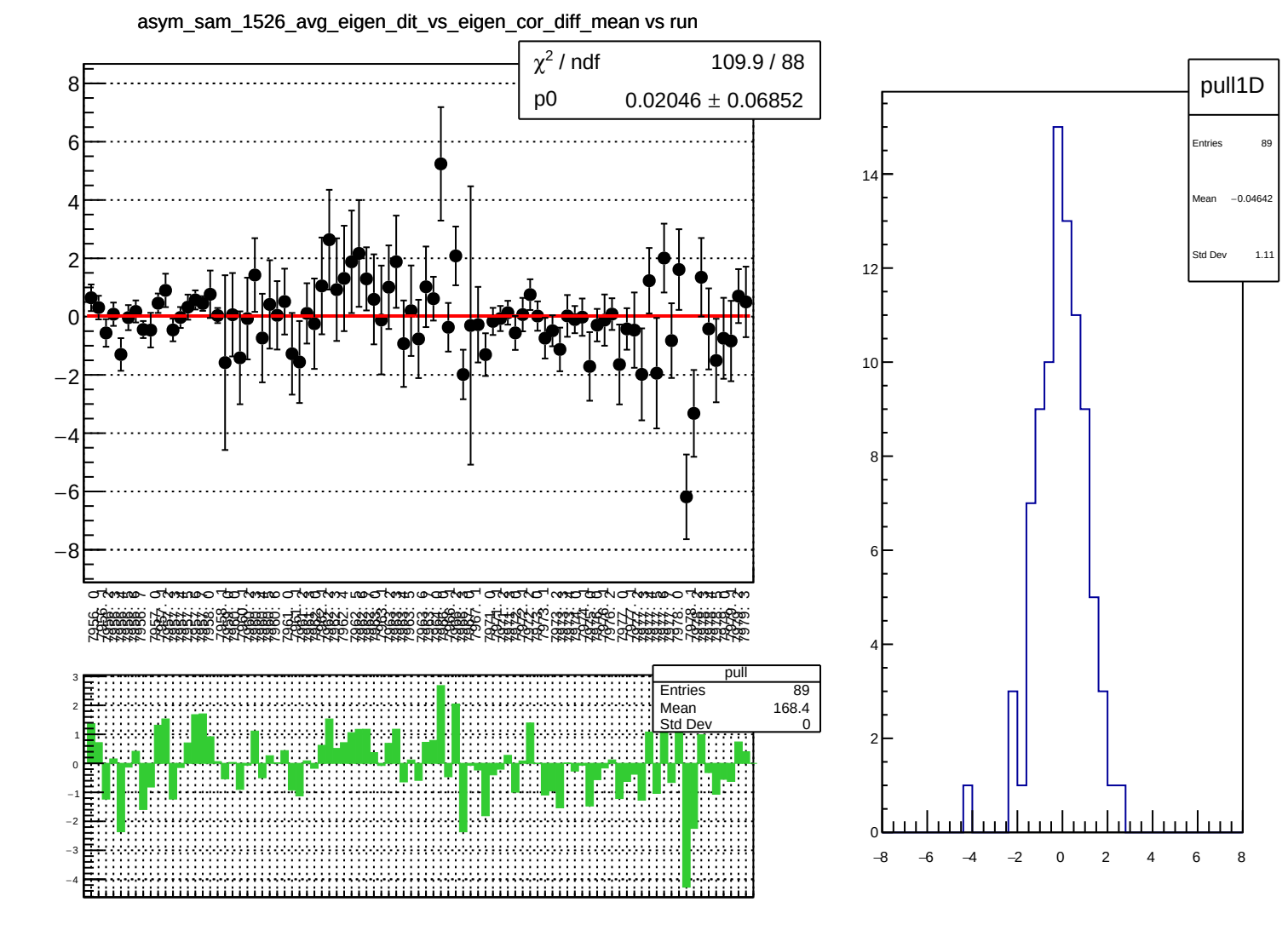

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.67 / 88
p0 −4.145e−06 ± 2.821e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 282.2
Std Dev 0
2
1
0
−1
−2
−3

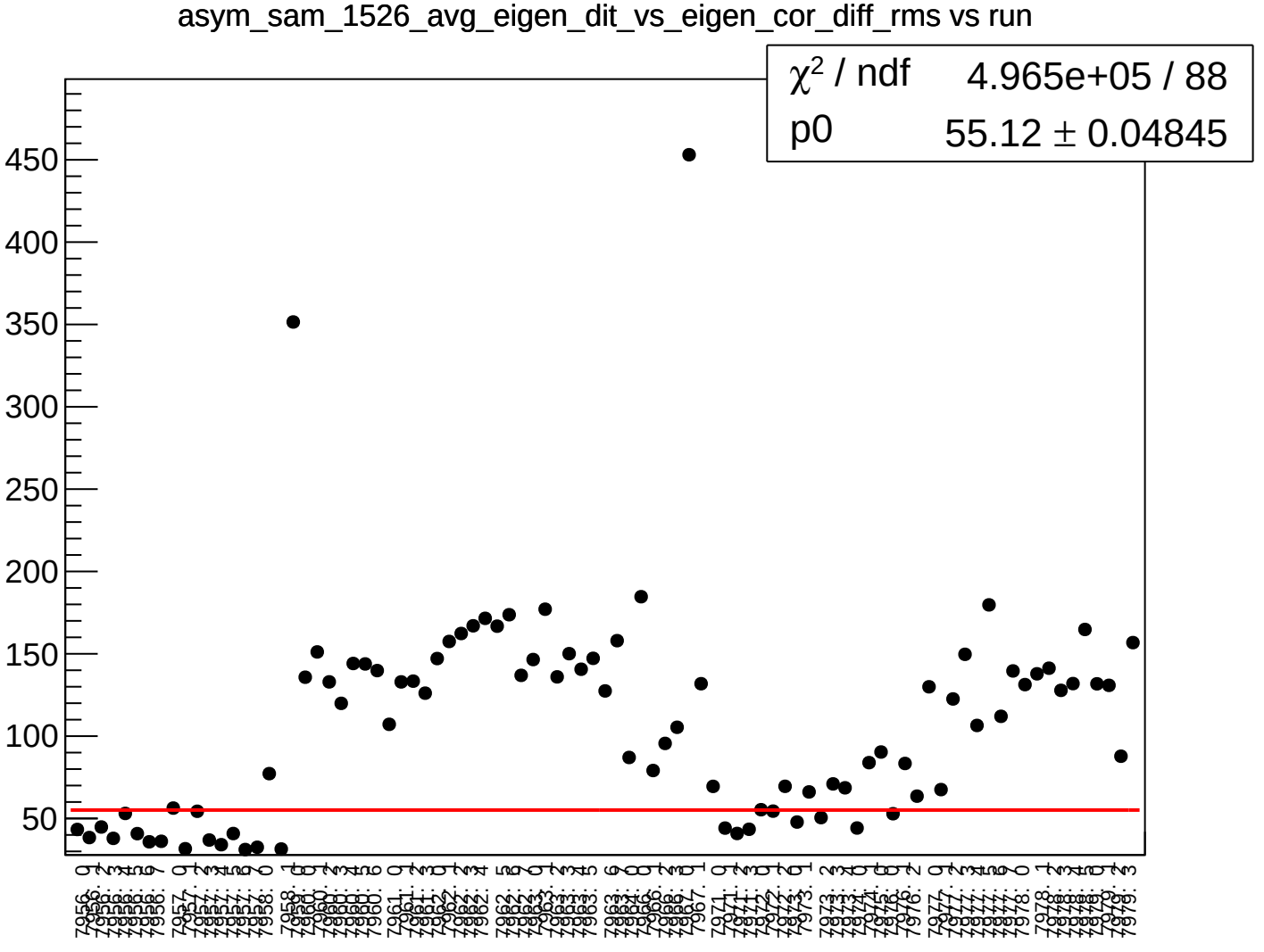

pull1D
Entries 89
Mean −0.01769
Std Dev 1.026
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

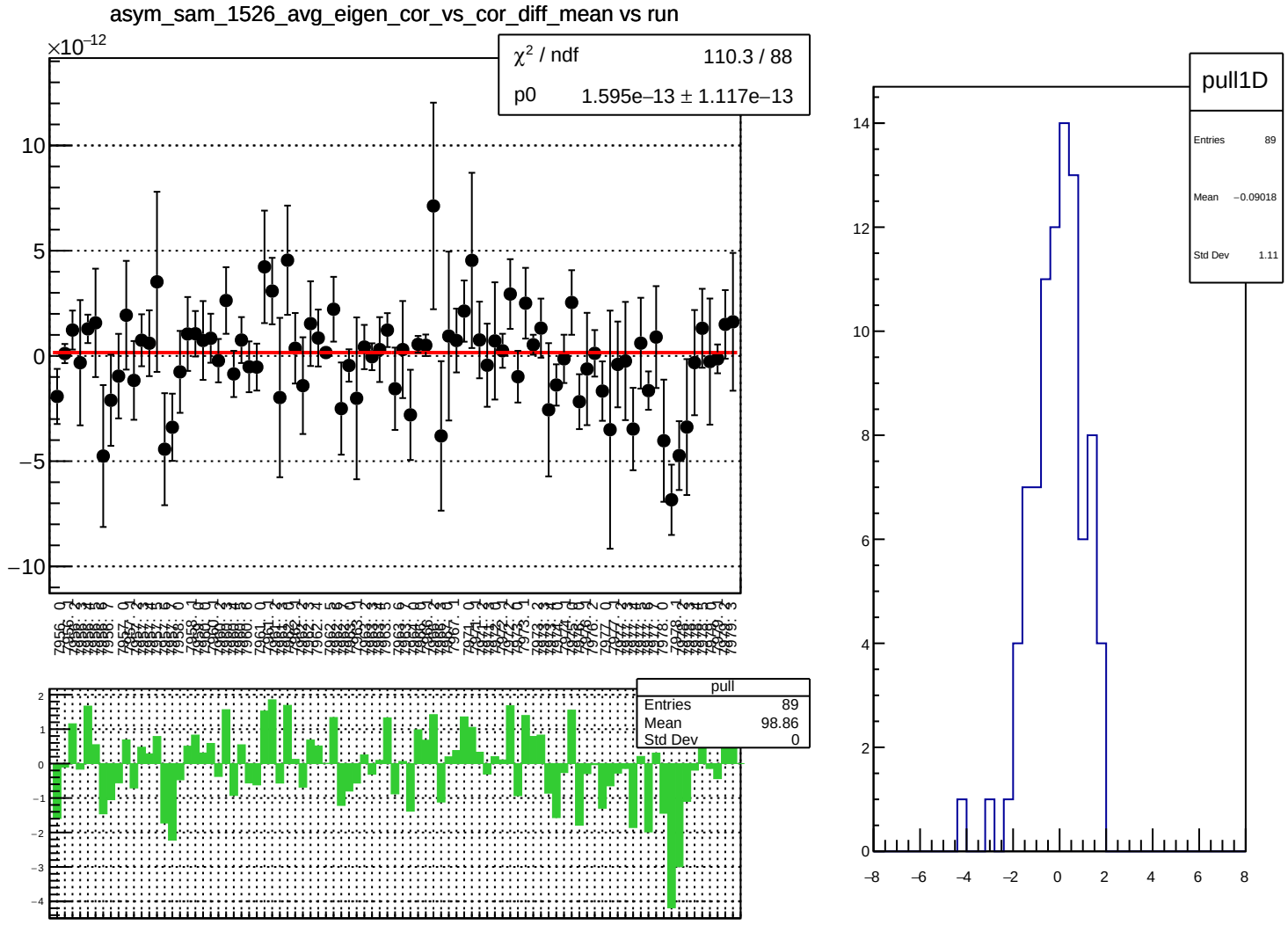

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.721e+05 / 88
p0 0.002537 ± 1.994e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

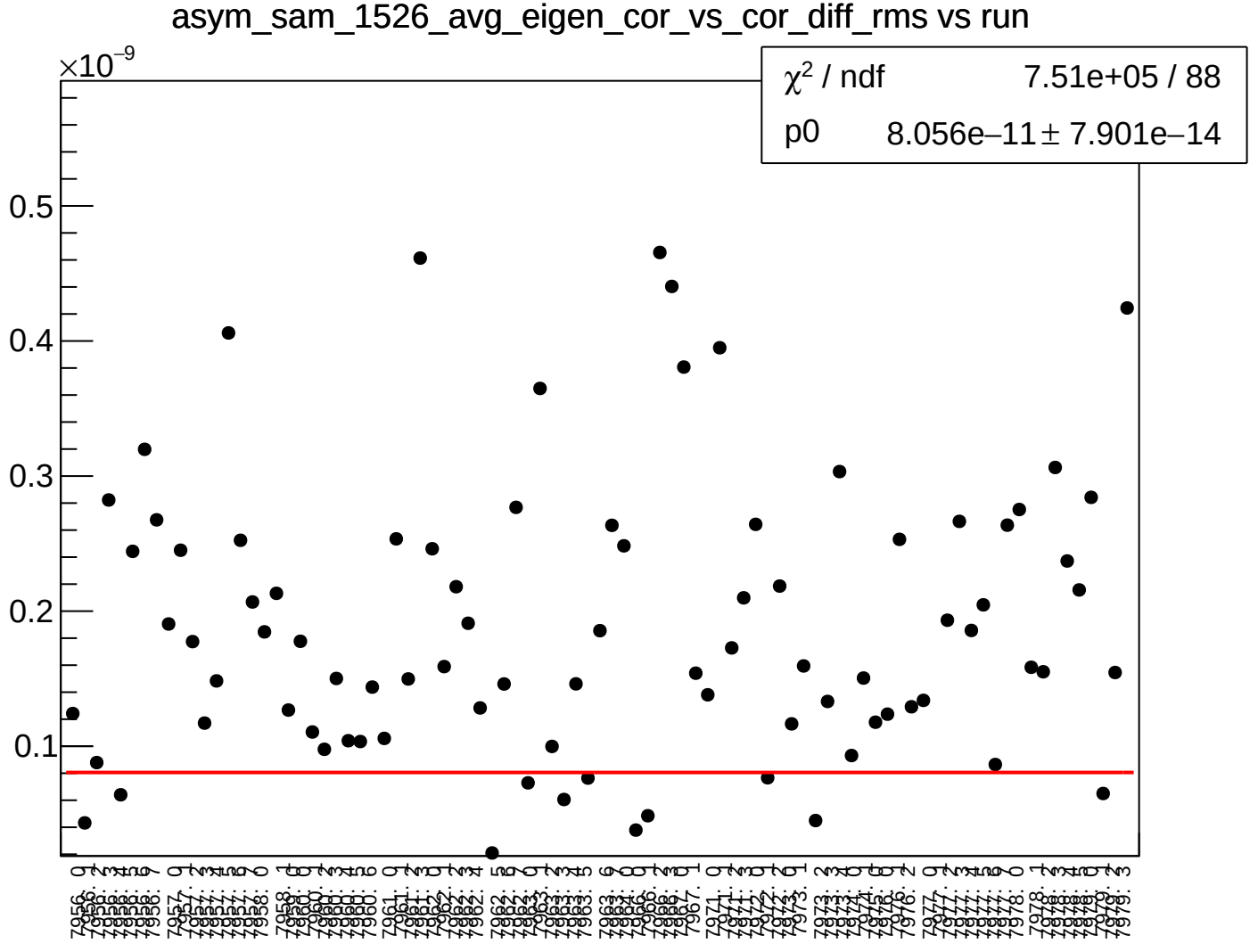

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.9 / 88
p0 0.02046 ± 0.06852
pull
Entries 89
Mean 168.4
Std Dev 0
pull1D
Entries 89
Mean −0.04642
Std Dev 1.11

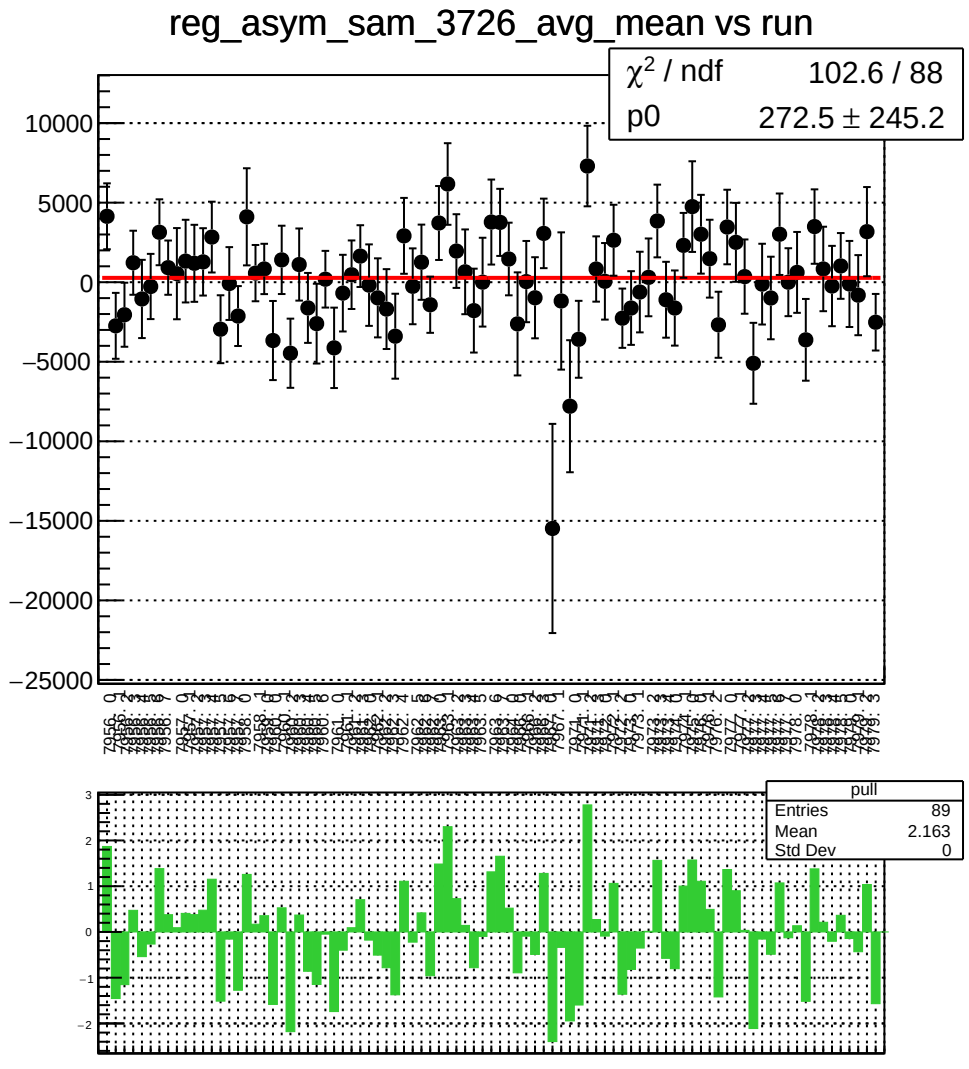

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.965e+05 / 88
p0 55.12 ± 0.04845
450
400
350
300
250
200
150
100
50

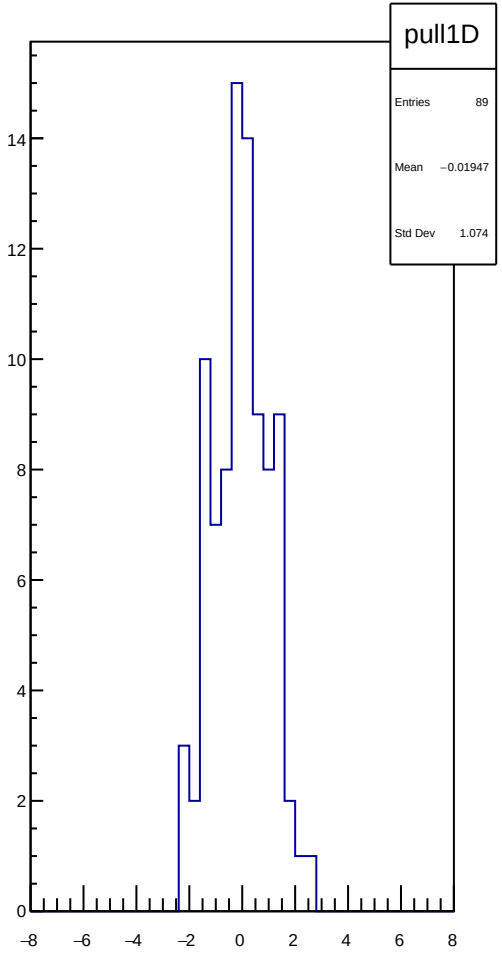

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.9 / 88
p0 0.02046 ± 0.06852
pull
Entries 89
Mean 168.4
Std Dev 0
pull1D
Entries 89
Mean −0.04642
Std Dev 1.11

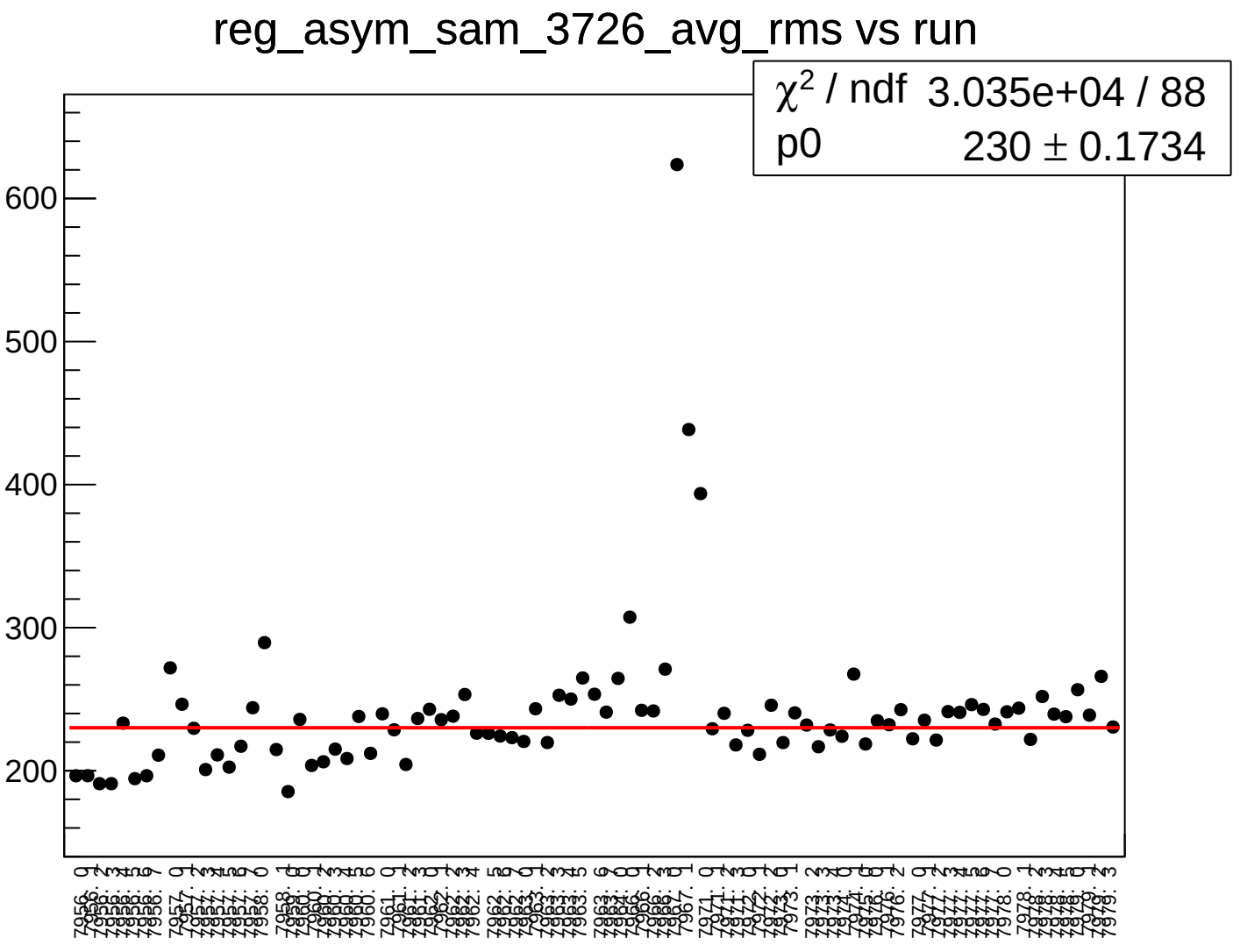

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.965e+05 / 88
p0 55.12 ± 0.04845
450
400
350
300
250
200
150
100
50

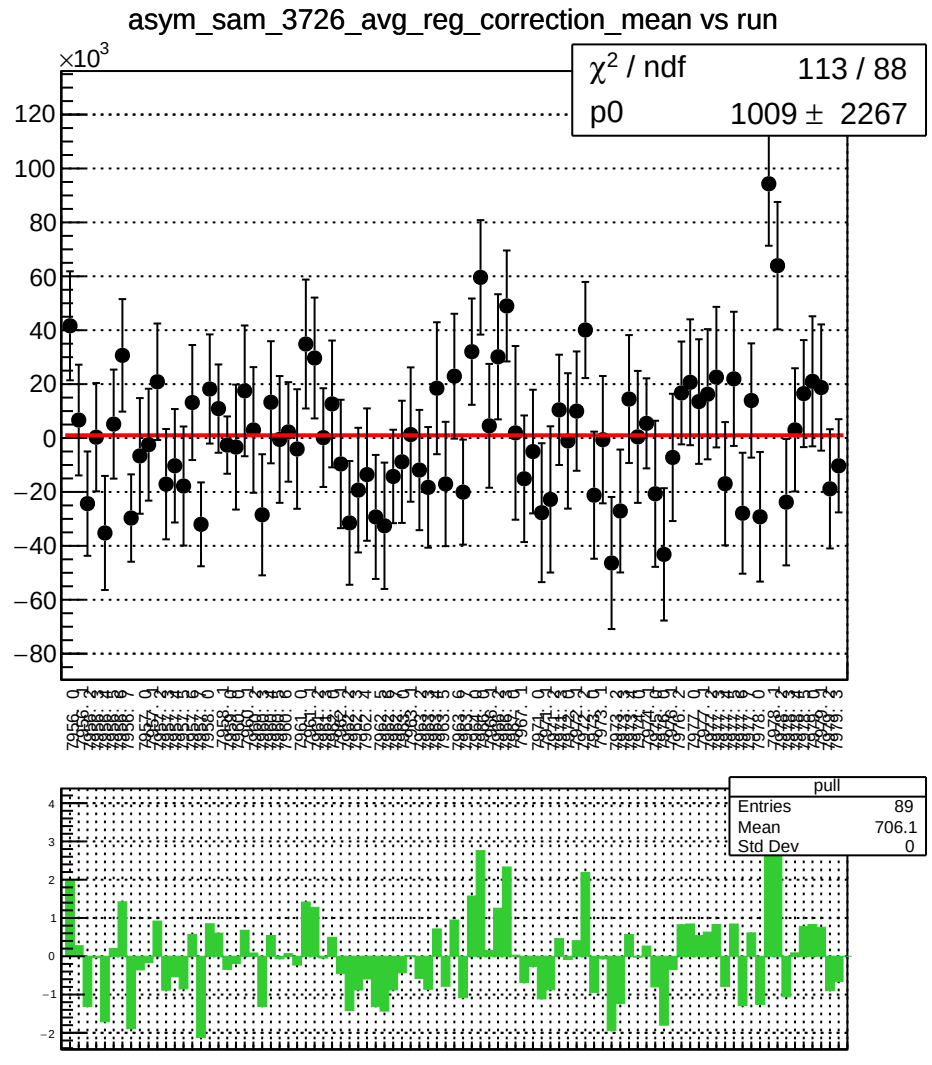

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.3 / 88
p0 1.595e−13 ± 1.117e−13
10
5
0
−5
−10
pull
Entries 89
Mean 98.86
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean −0.09018
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

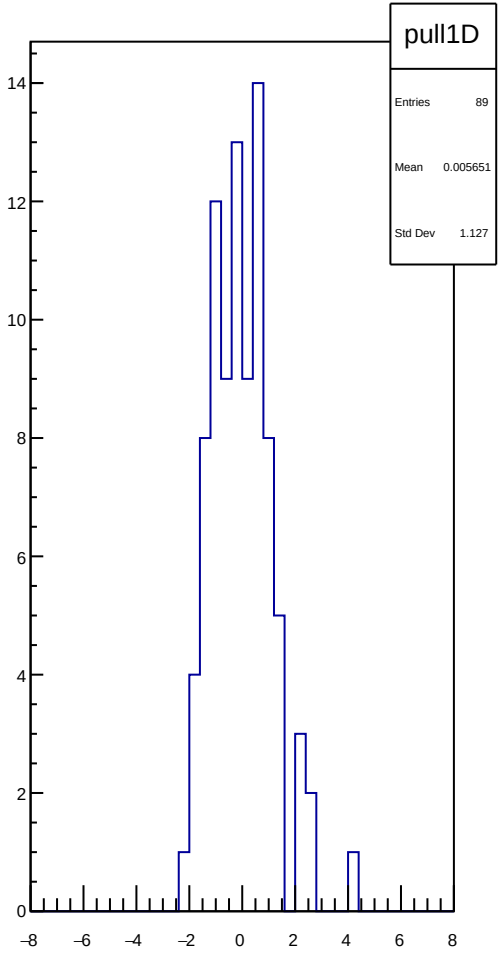

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.51e+05 / 88
p0 8.056e−11 ± 7.901e−14
0.5
0.4
0.3
0.2
0.1

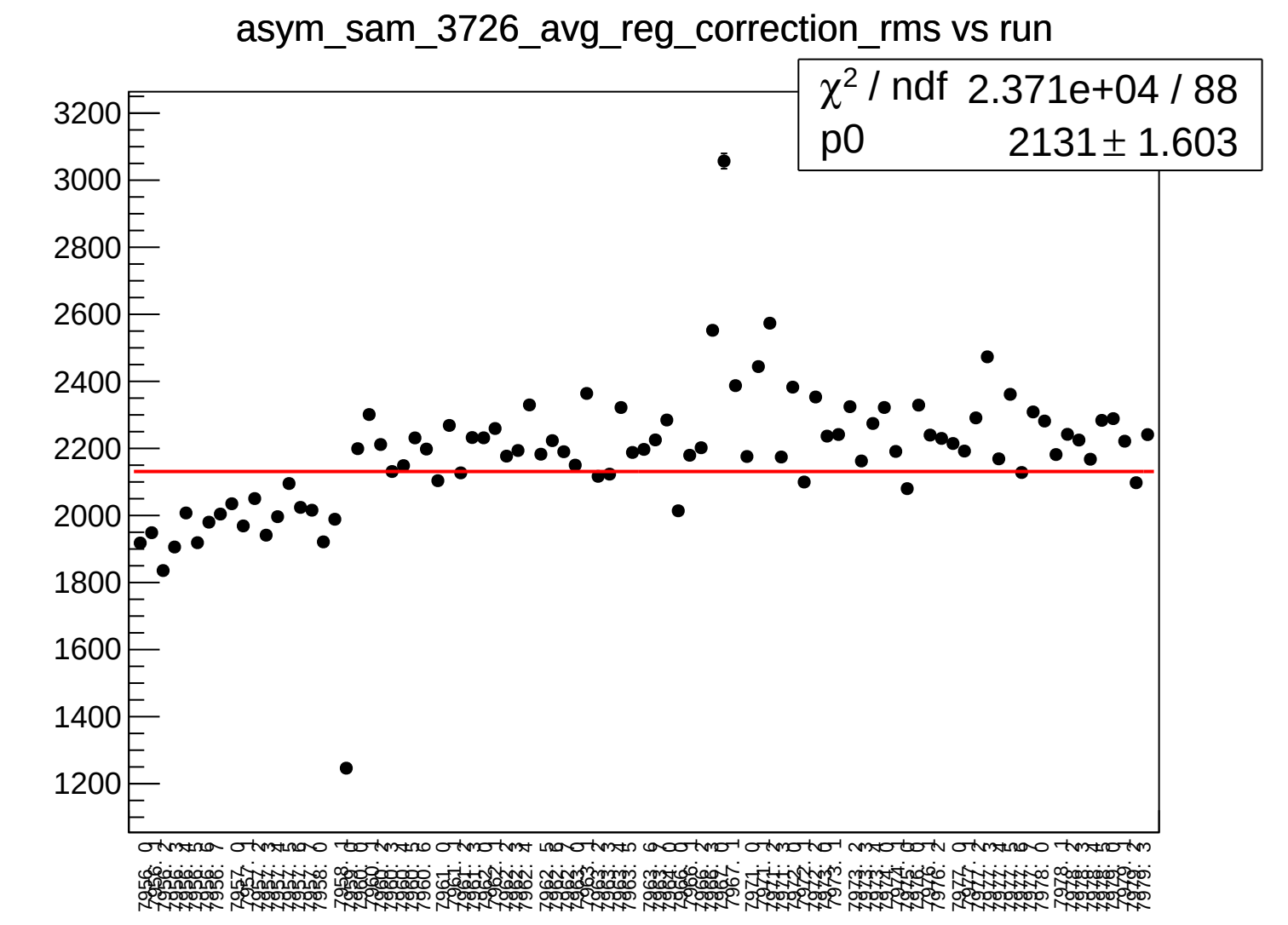

reg_asym_sam_3726_avg_mean vs run
$\chi^2$ / ndf 102.6 / 88
p0 272.5 ± 245.2
pull
Entries 89
Mean 2.163
Std Dev 0

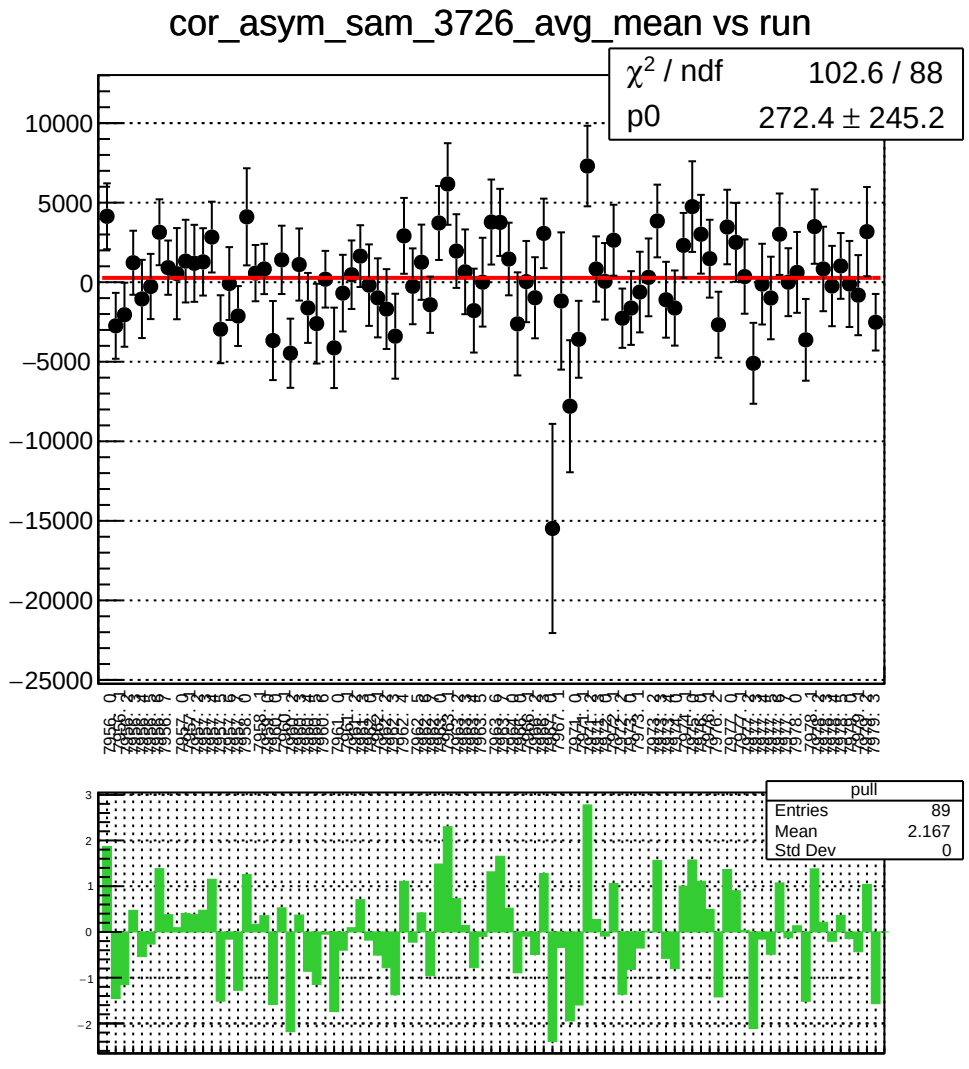

pull1D
Entries 89
Mean −0.01947
Std Dev 1.074

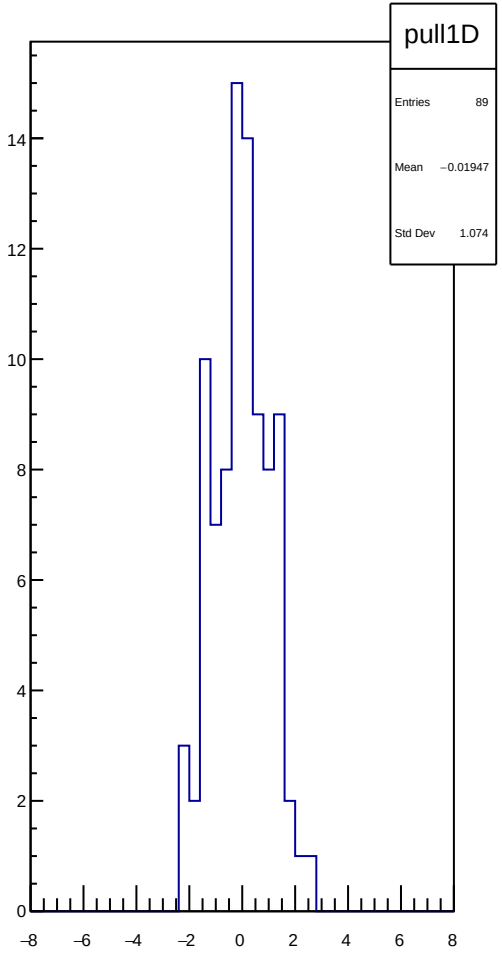

reg_asym_sam_3726_avg_rms vs run
$\chi^2$ / ndf 3.035e+04 / 88
p0 230 ± 0.1734
600
500
400
300
200

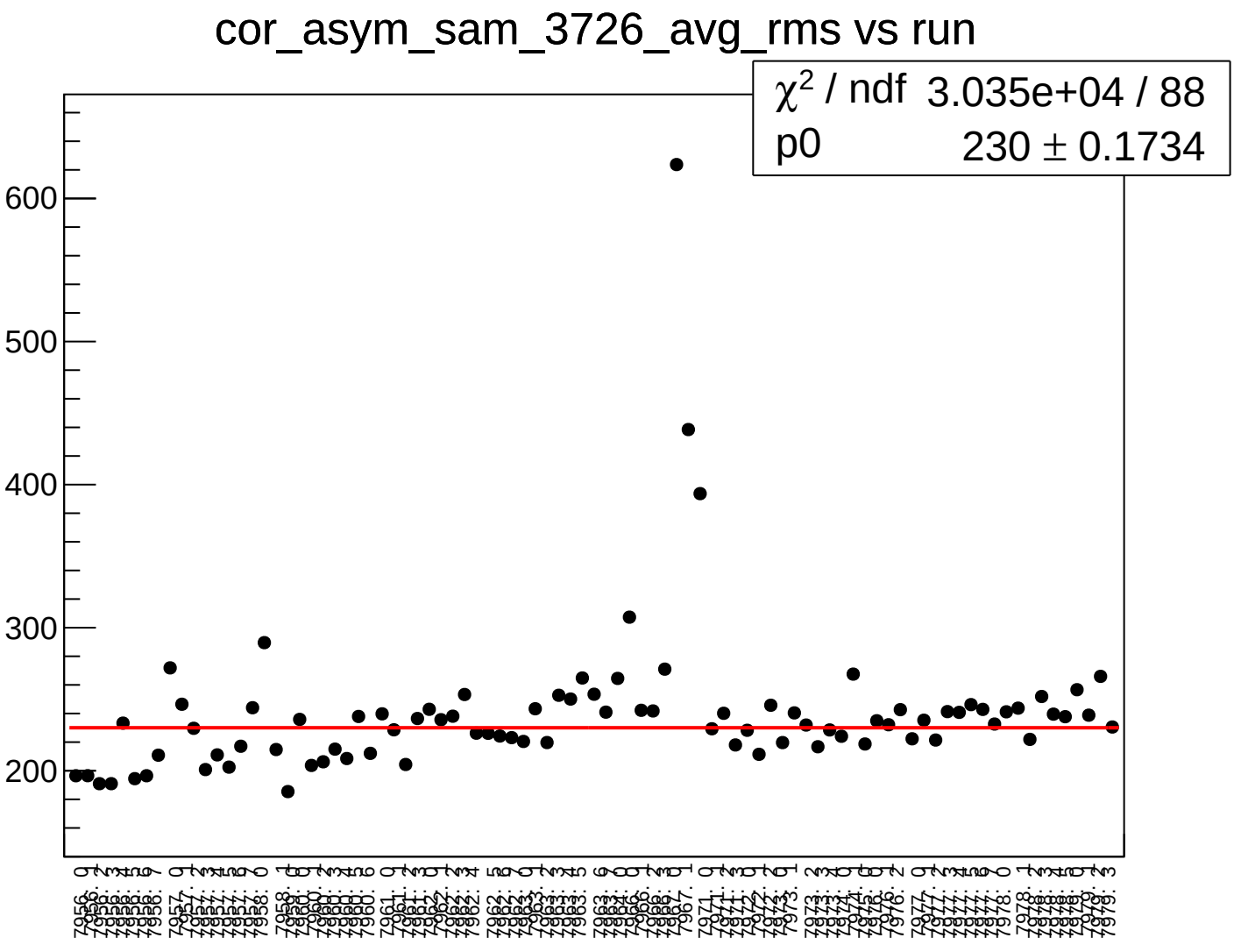

asym_sam_3726_avg_reg_correction_mean vs run
×10^3
χ² / ndf 113 / 88
p0 1009 ± 2267
pull
Entries 89
Mean 706.1
Std Dev 0

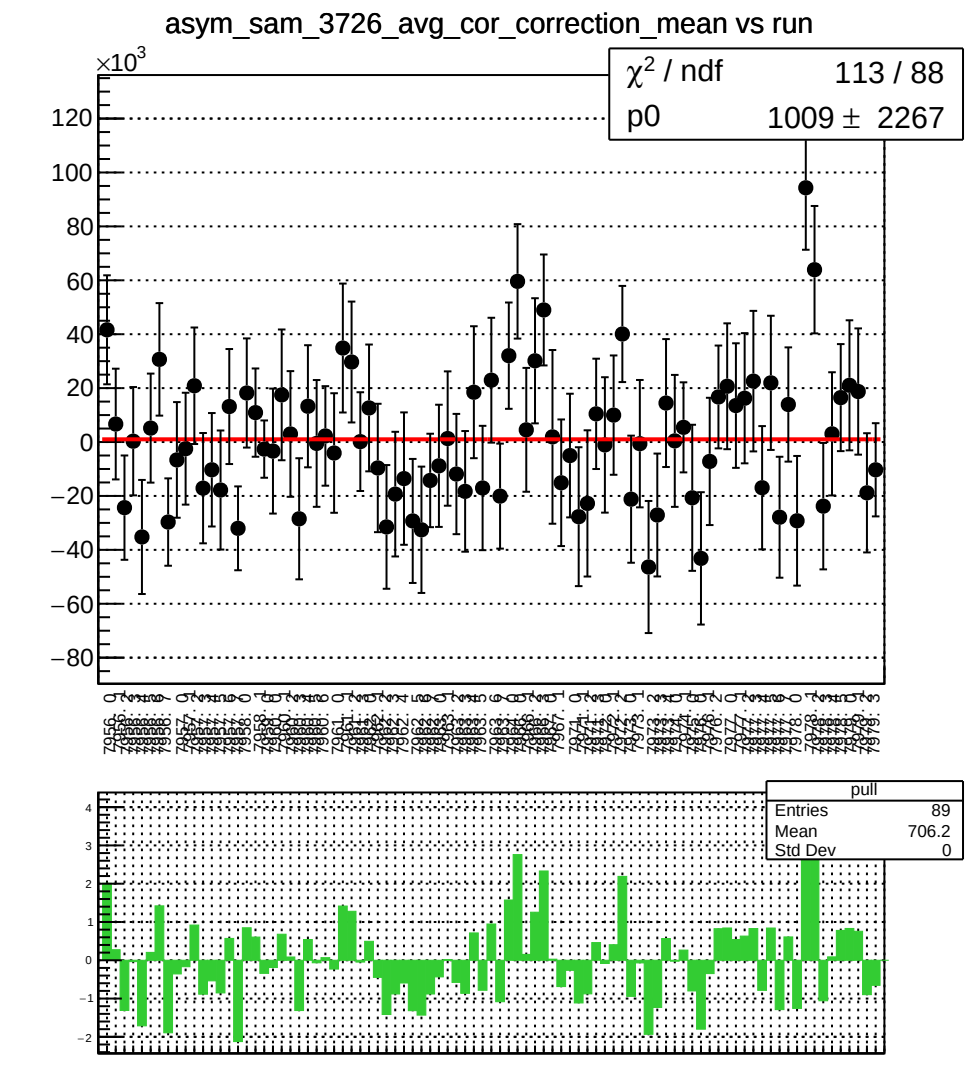

pull1D
Entries 89
Mean 0.005651
Std Dev 1.127

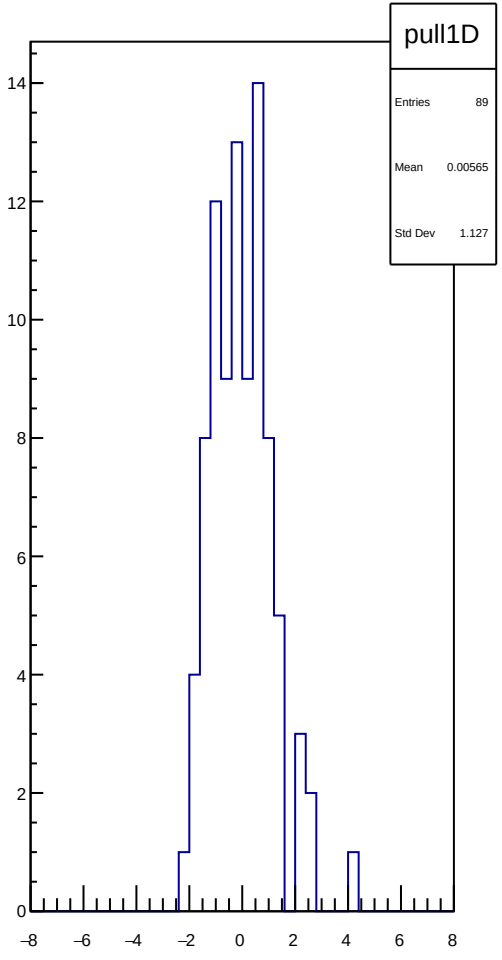

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 2.371e+04 / 88
p0 2131 ± 1.603
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

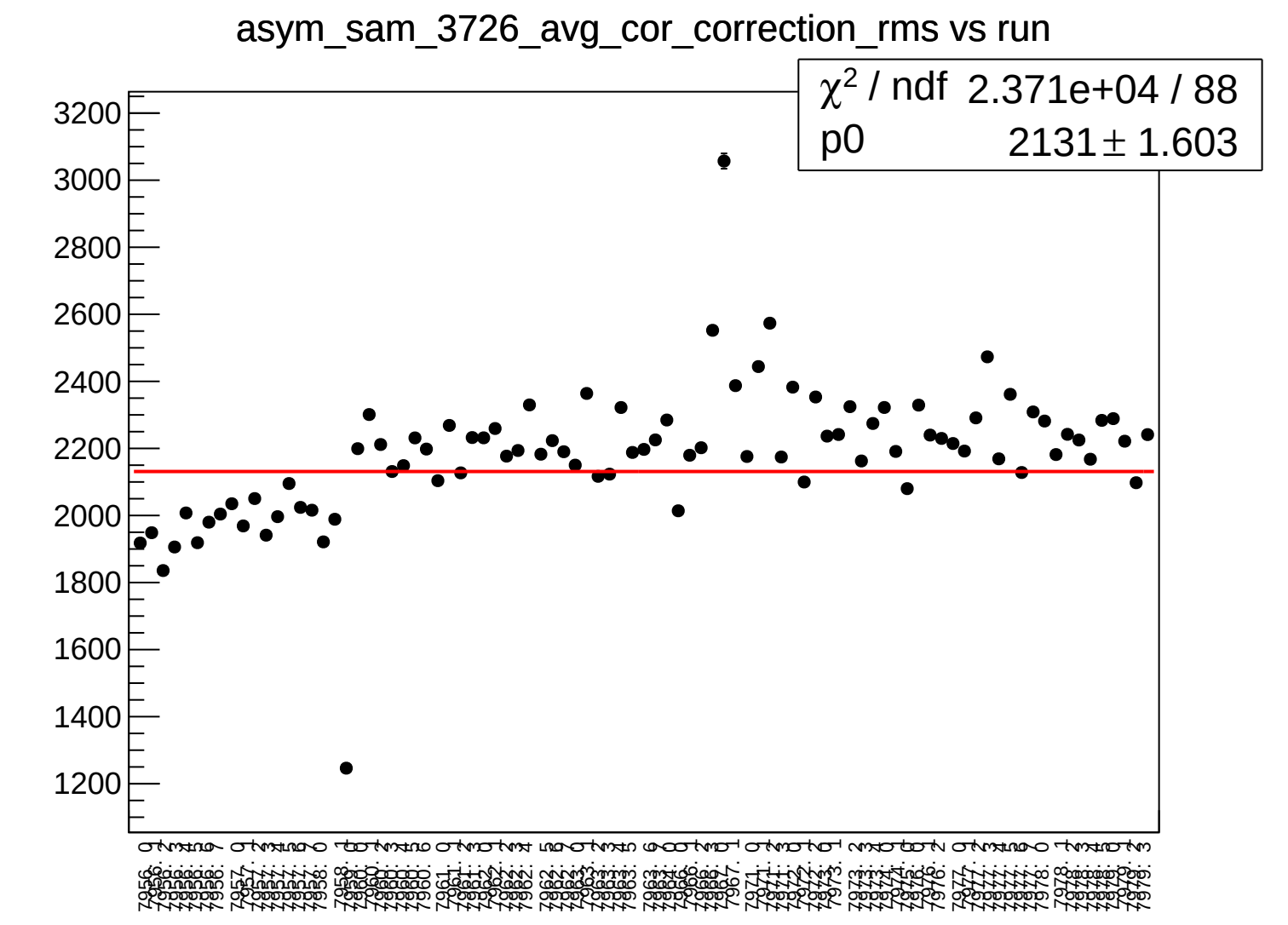

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 102.6 / 88
p0 272.4 ± 245.2
pull
Entries 89
Mean 2.167
Std Dev 0

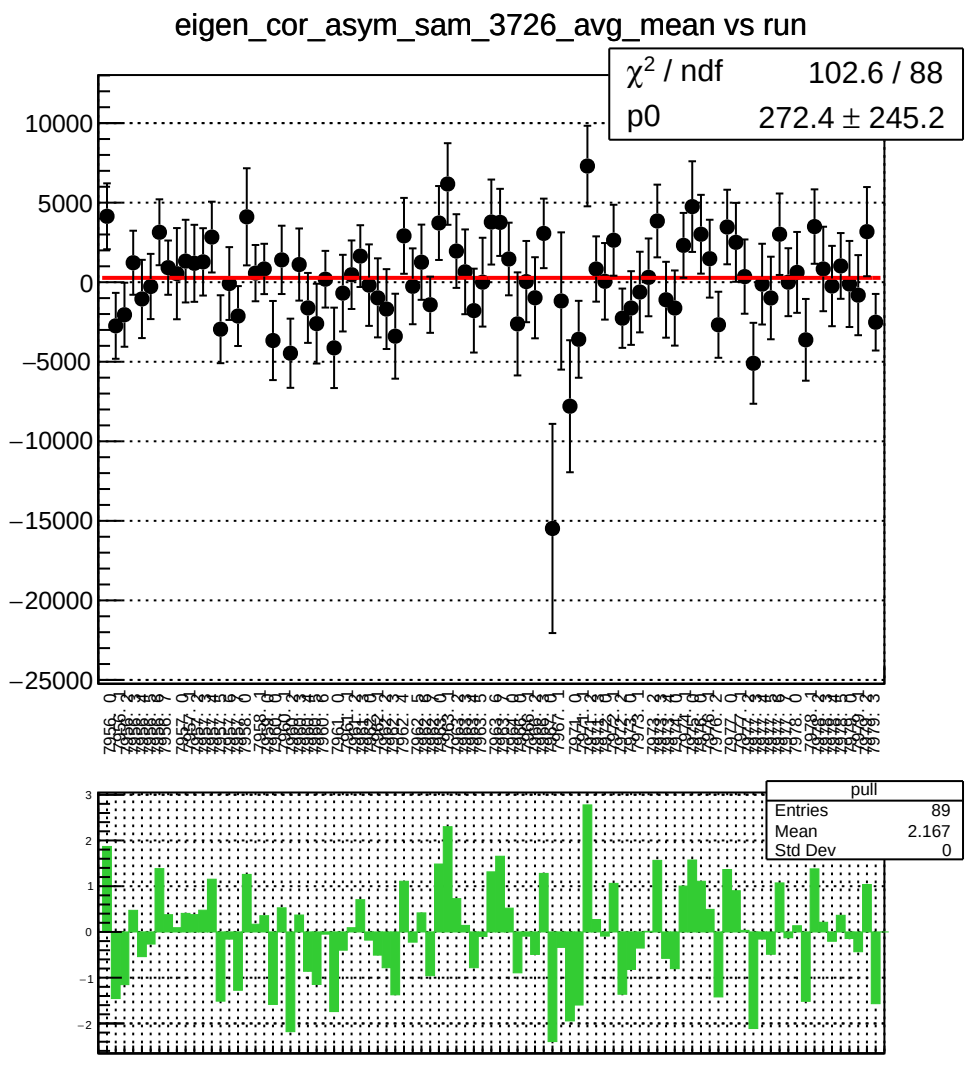

pull1D
Entries 89
Mean −0.01947
Std Dev 1.074

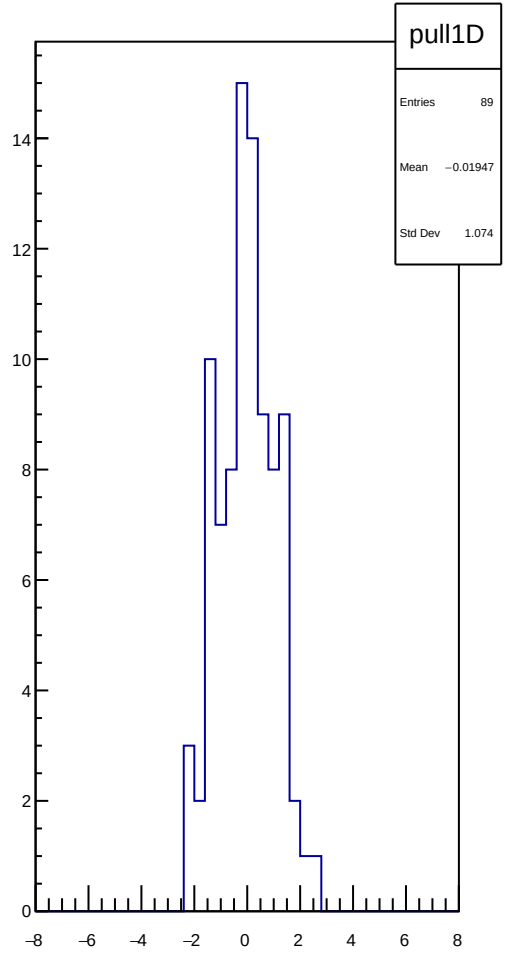

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.035e+04 / 88
p0 230 ± 0.1734
600
500
400
300
200

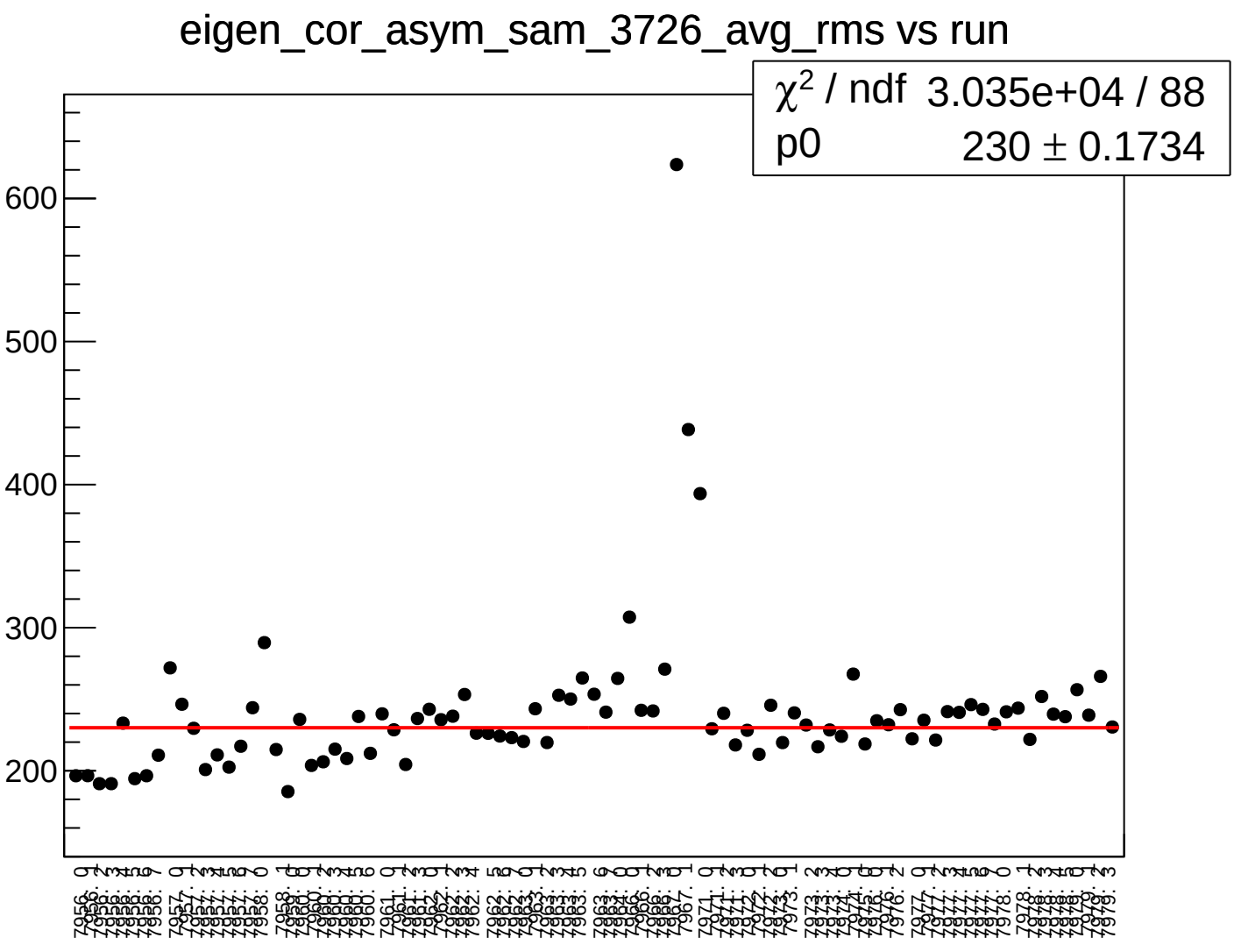

asym_sam_3726_avg_cor_correction_mean vs run
×10^3
χ² / ndf 113 / 88
p0 1009 ± 2267
pull
Entries 89
Mean 706.2
Std Dev 0

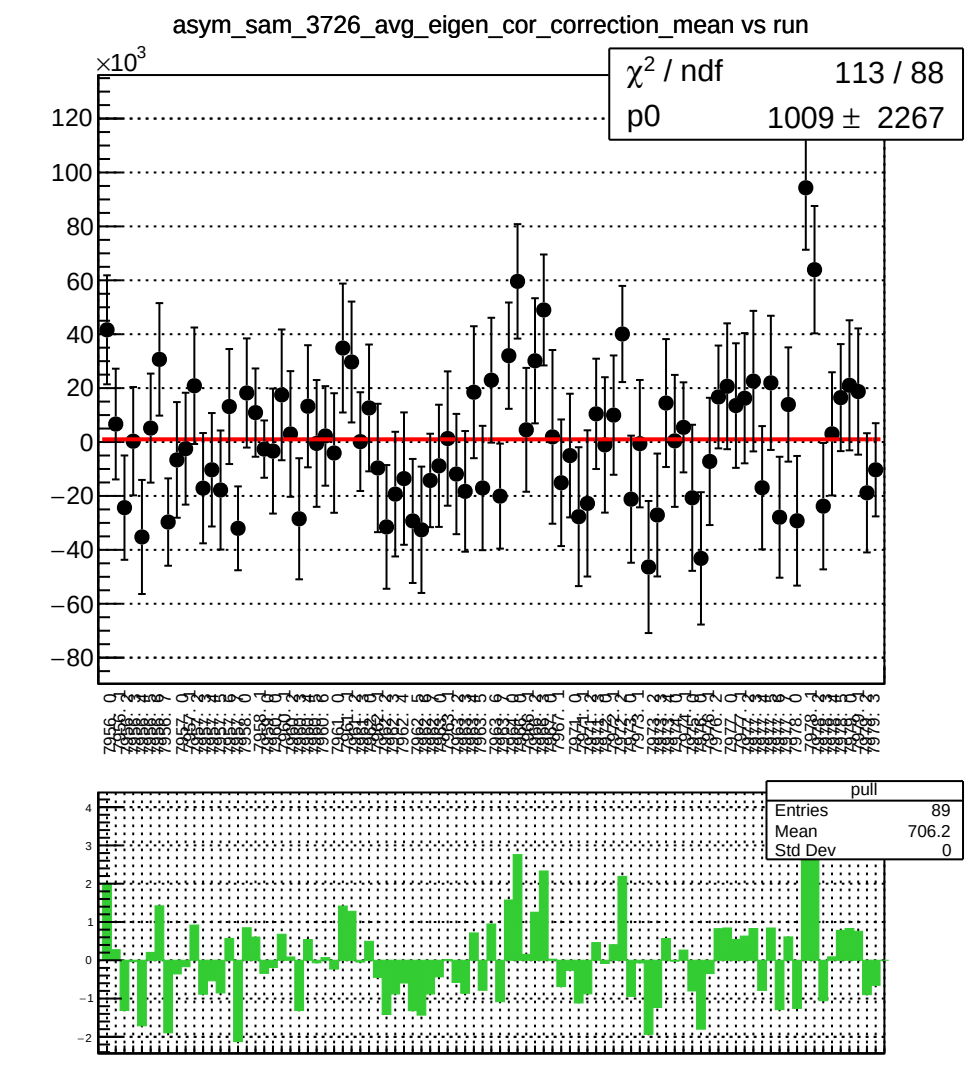

pull1D
Entries 89
Mean 0.00565
Std Dev 1.127

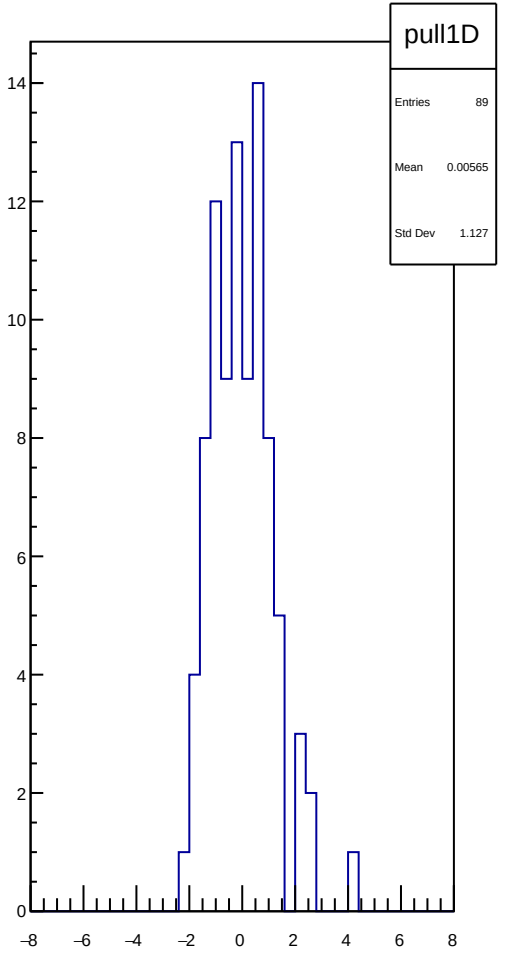

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 2.371e+04 / 88
p0 2131 ± 1.603
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

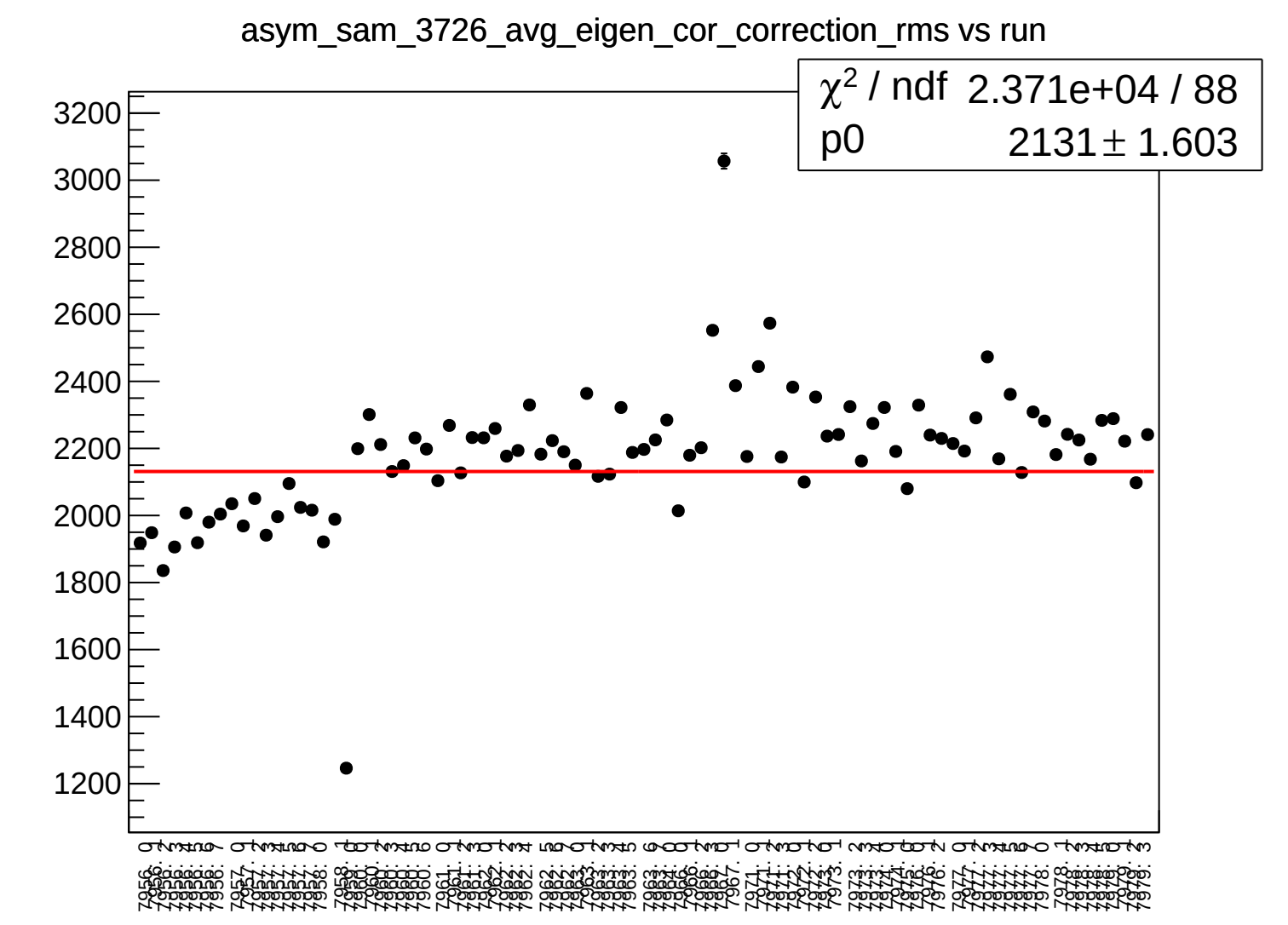

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 102.6 / 88
p0 272.4 ± 245.2
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 89
Mean 2.167
Std Dev 0
3
2
1
0
−1
−2

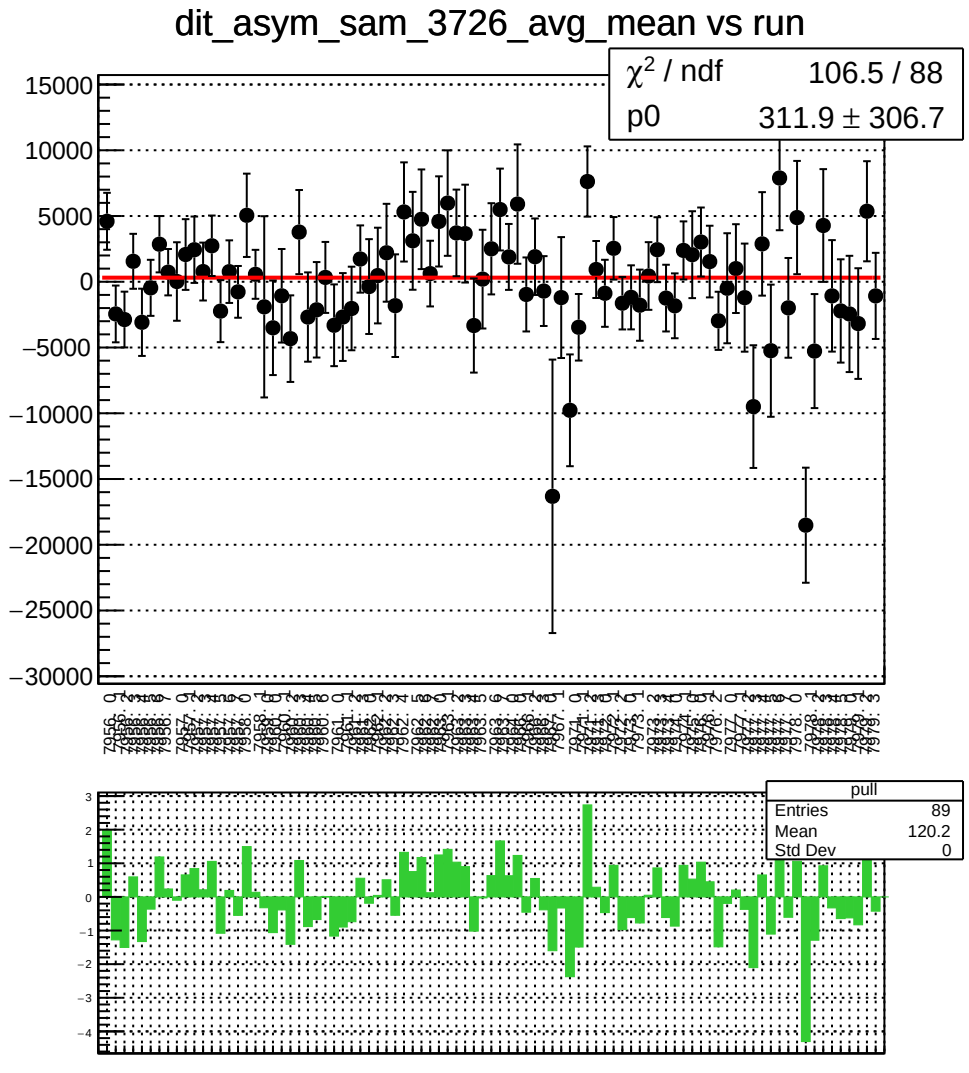

pull1D
Entries 89
Mean −0.01947
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

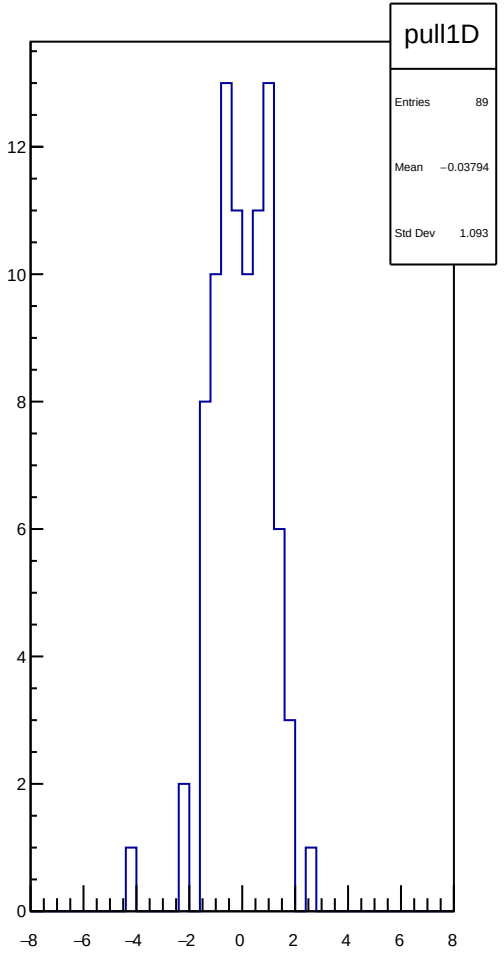

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.035e+04 / 88
p0 230 ± 0.1734
600
500
400
300
200

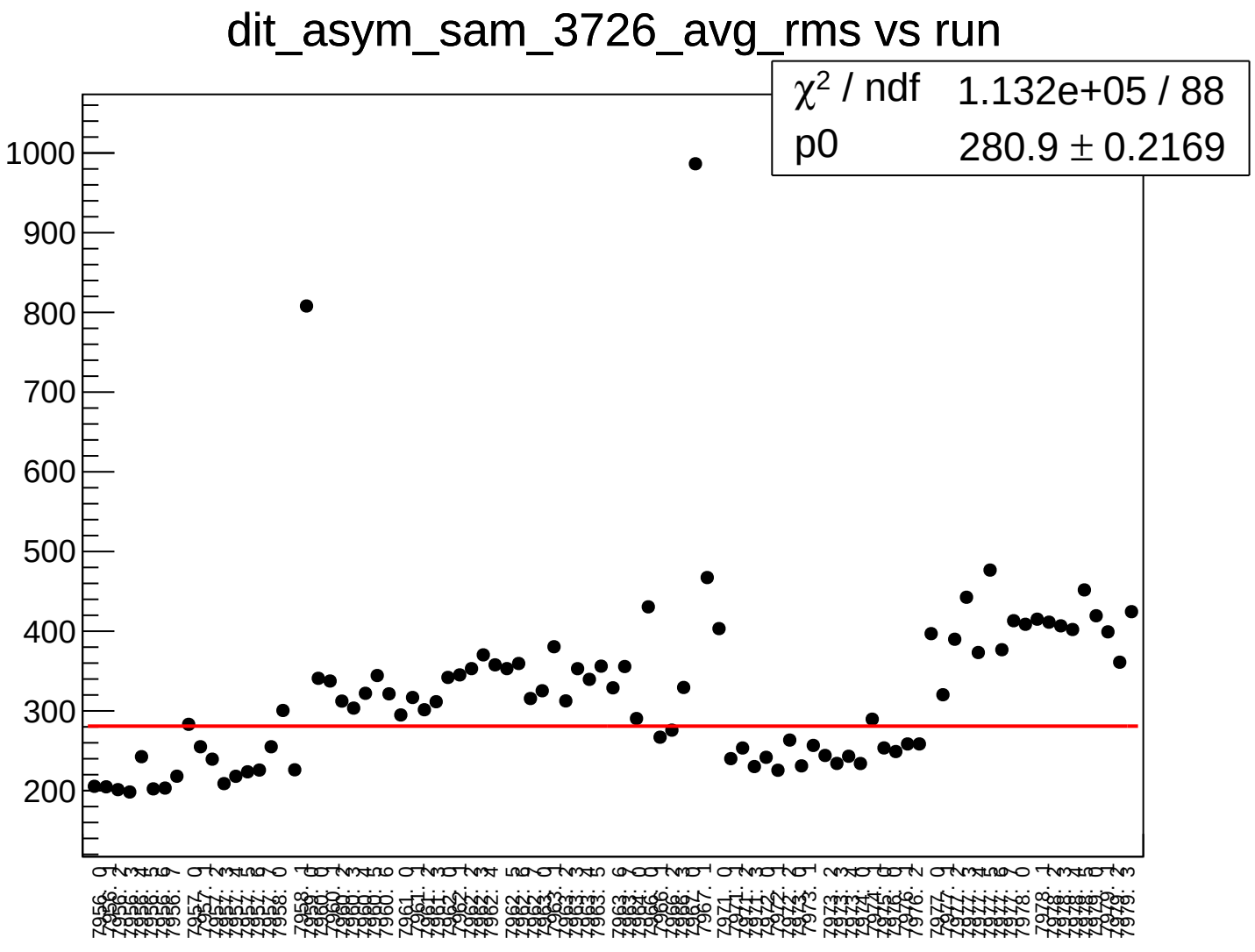

asym_sam_3726_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 113 / 88
p0 1009 ± 2267
pull
Entries 89
Mean 706.2
Std Dev 0

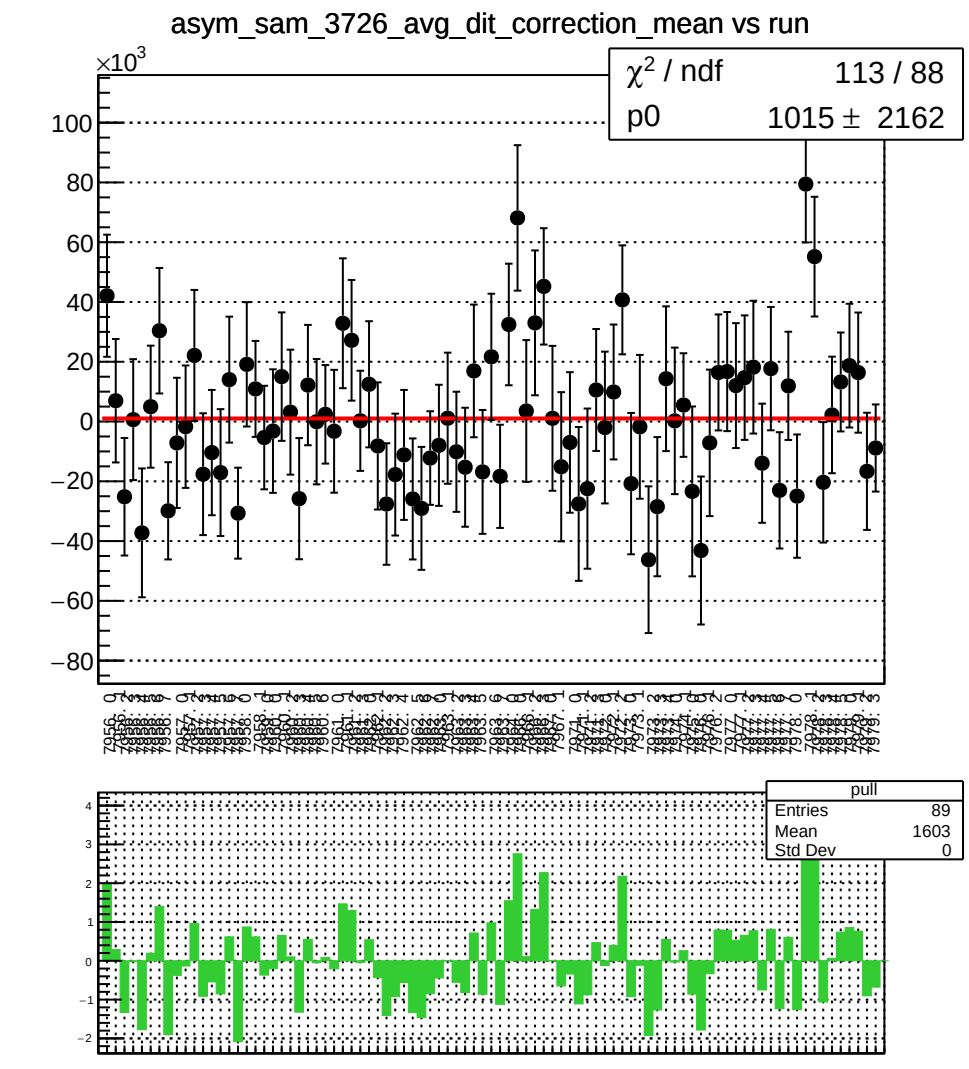

pull1D
Entries 89
Mean 0.00565
Std Dev 1.127

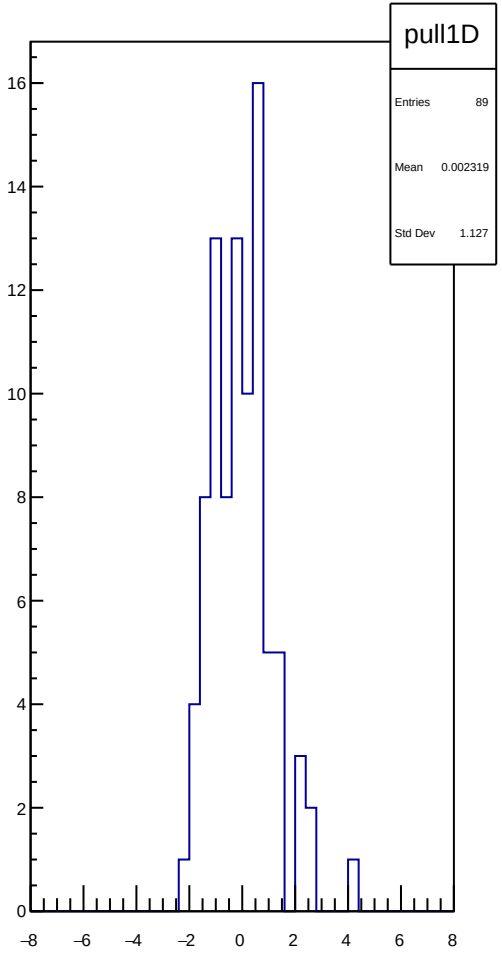

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.371e+04 / 88
p0 2131 ± 1.603
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

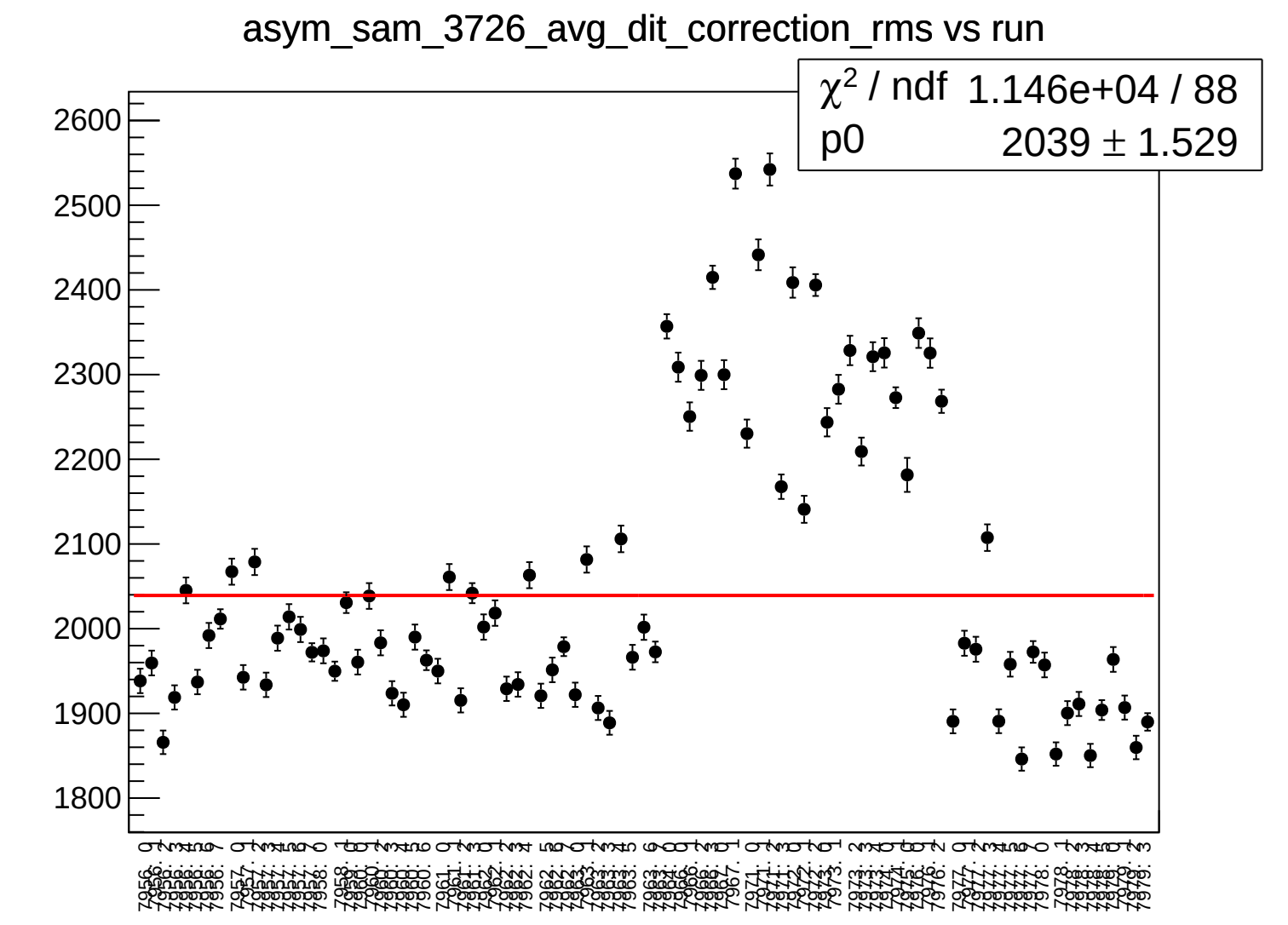

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 106.5 / 88
p0 311.9 ± 306.7
pull
Entries 89
Mean 120.2
Std Dev 0

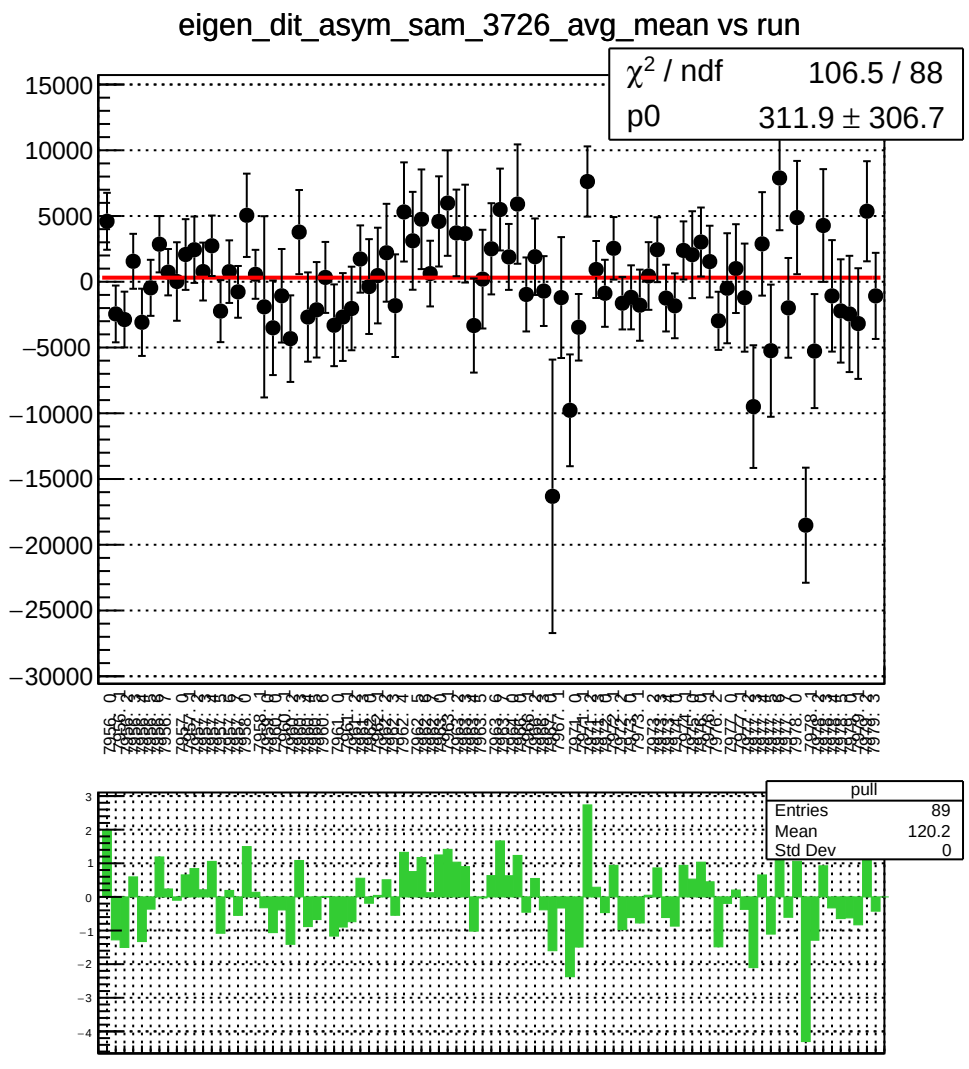

pull1D
Entries 89
Mean −0.03794
Std Dev 1.093

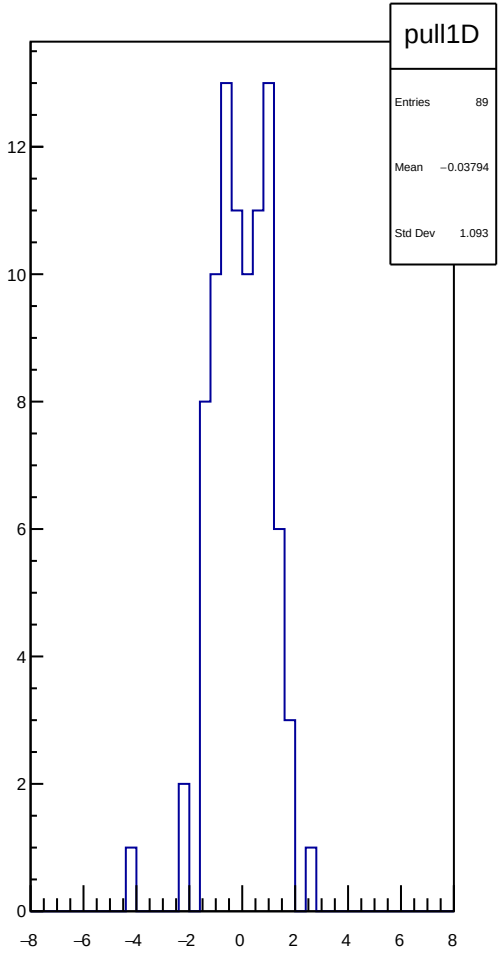

dit_asym_sam_3726_avg_rms vs run
$\chi^2$ / ndf 1.132e+05 / 88
p0 280.9 ± 0.2169
1000
900
800
700
600
500
400
300
200

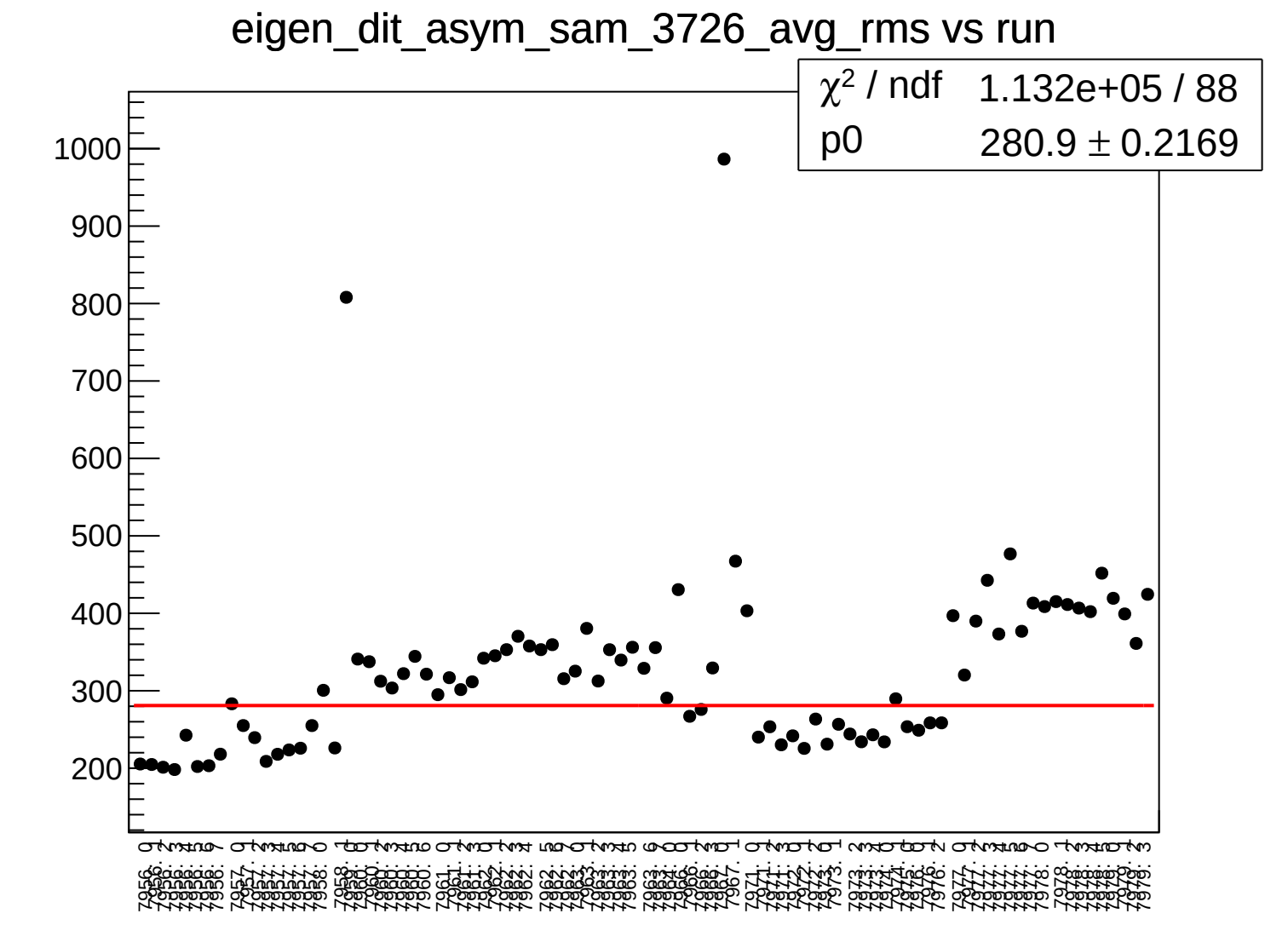

asym_sam_3726_avg_dit_correction_mean vs run
×10^3
χ² / ndf 113 / 88
p0 1015 ± 2162
pull
Entries 89
Mean 1603
Std Dev 0

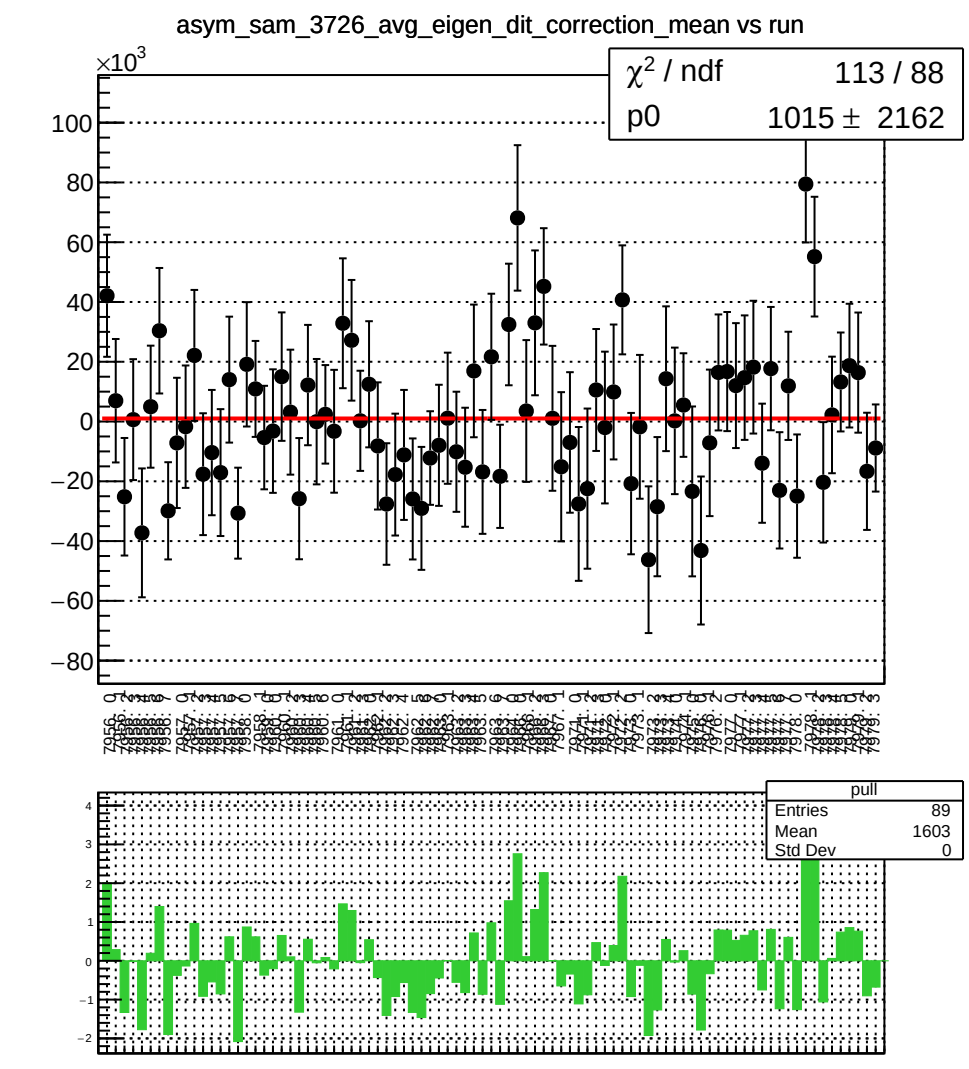

pull1D
Entries 89
Mean 0.002319
Std Dev 1.127

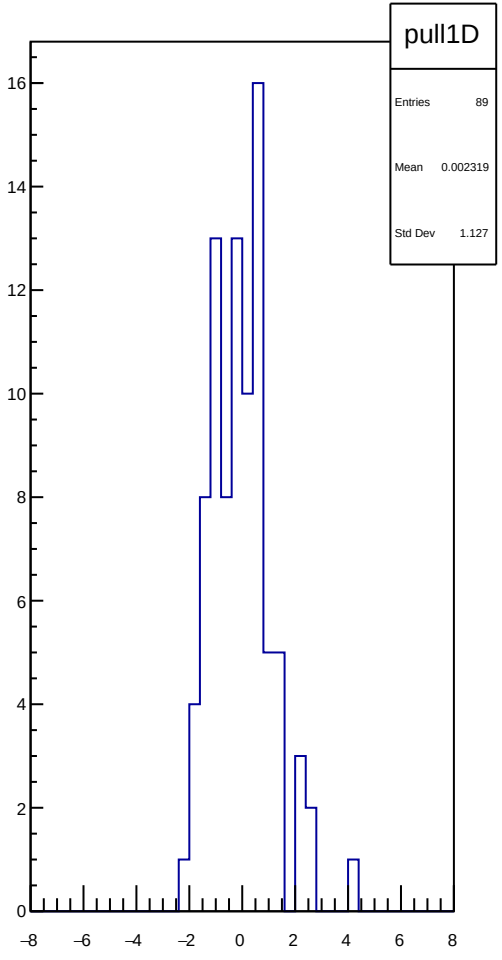

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.146e+04 / 88
p0 2039 ± 1.529
2600
2500
2400
2300
2200
2100
2000
1900
1800

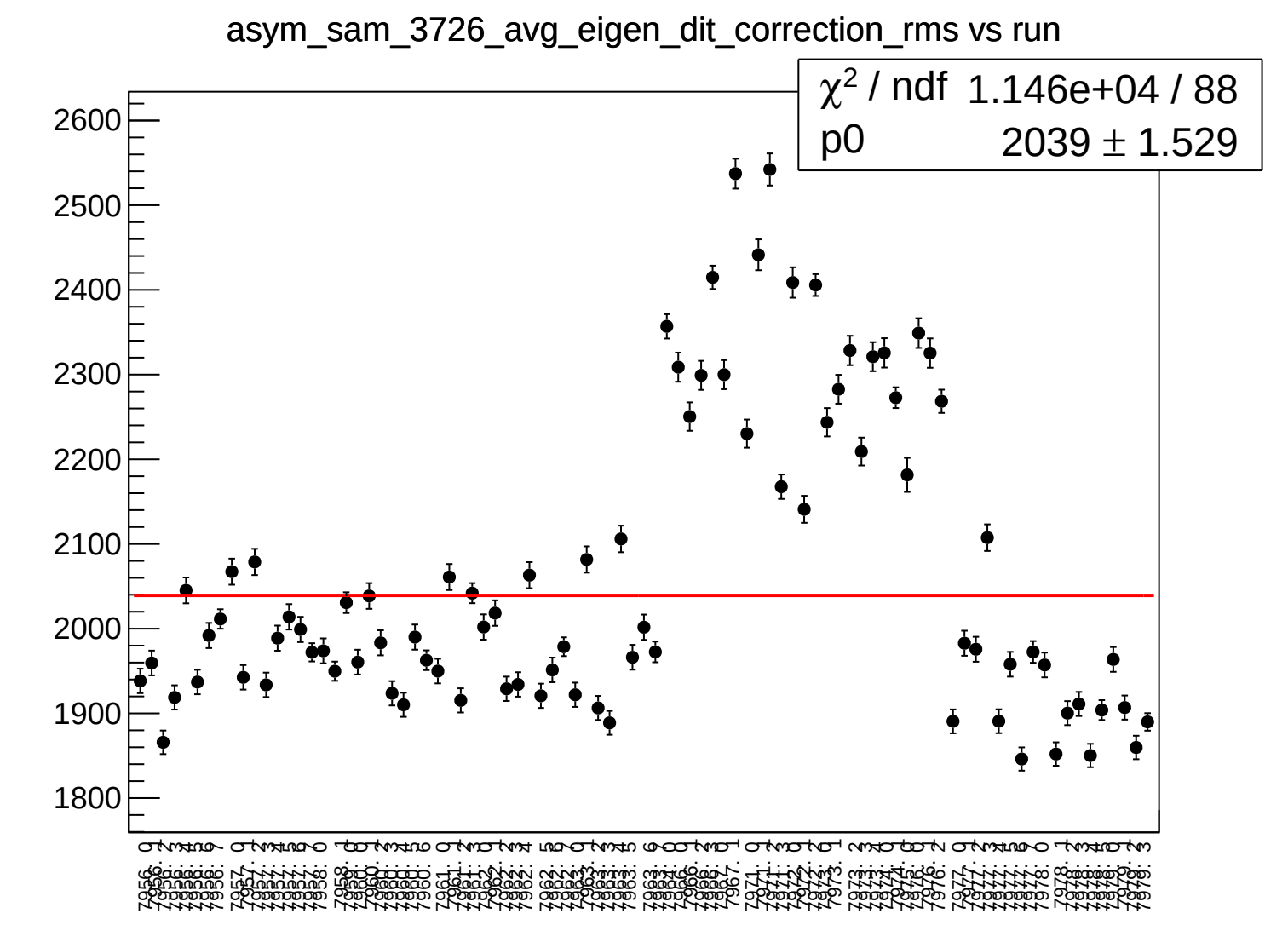

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 106.5 / 88
p0 311.9 ± 306.7
pull
Entries 89
Mean 120.2
Std Dev 0

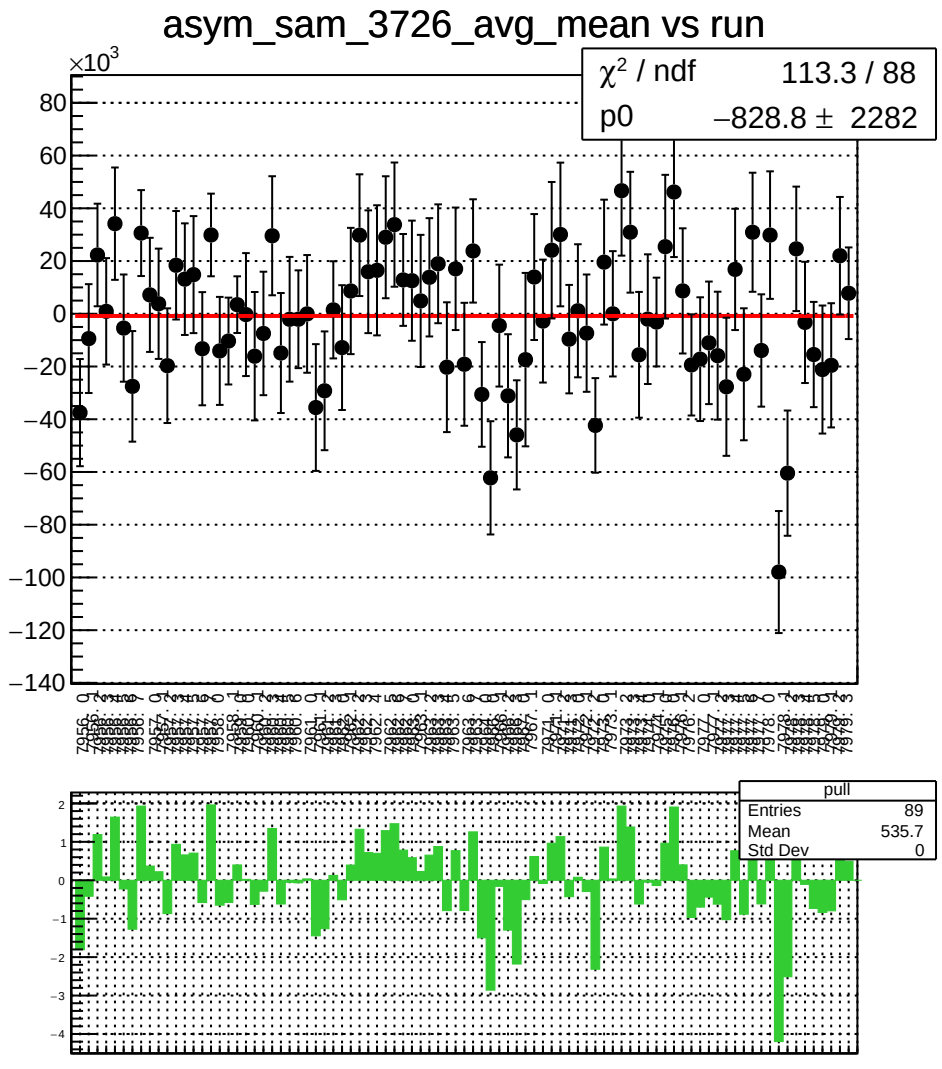

pull1D
Entries 89
Mean −0.03794
Std Dev 1.093

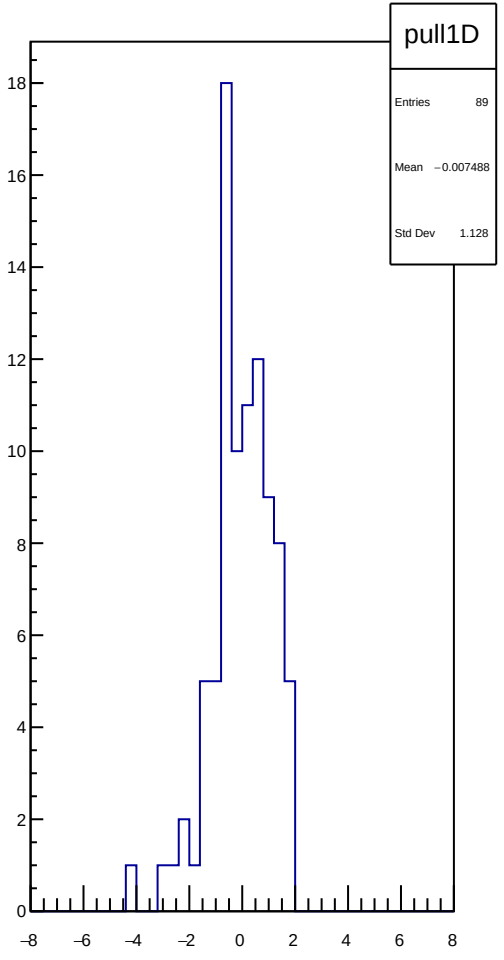

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.132e+05 / 88
p0 280.9 ± 0.2169
1000
900
800
700
600
500
400
300
200

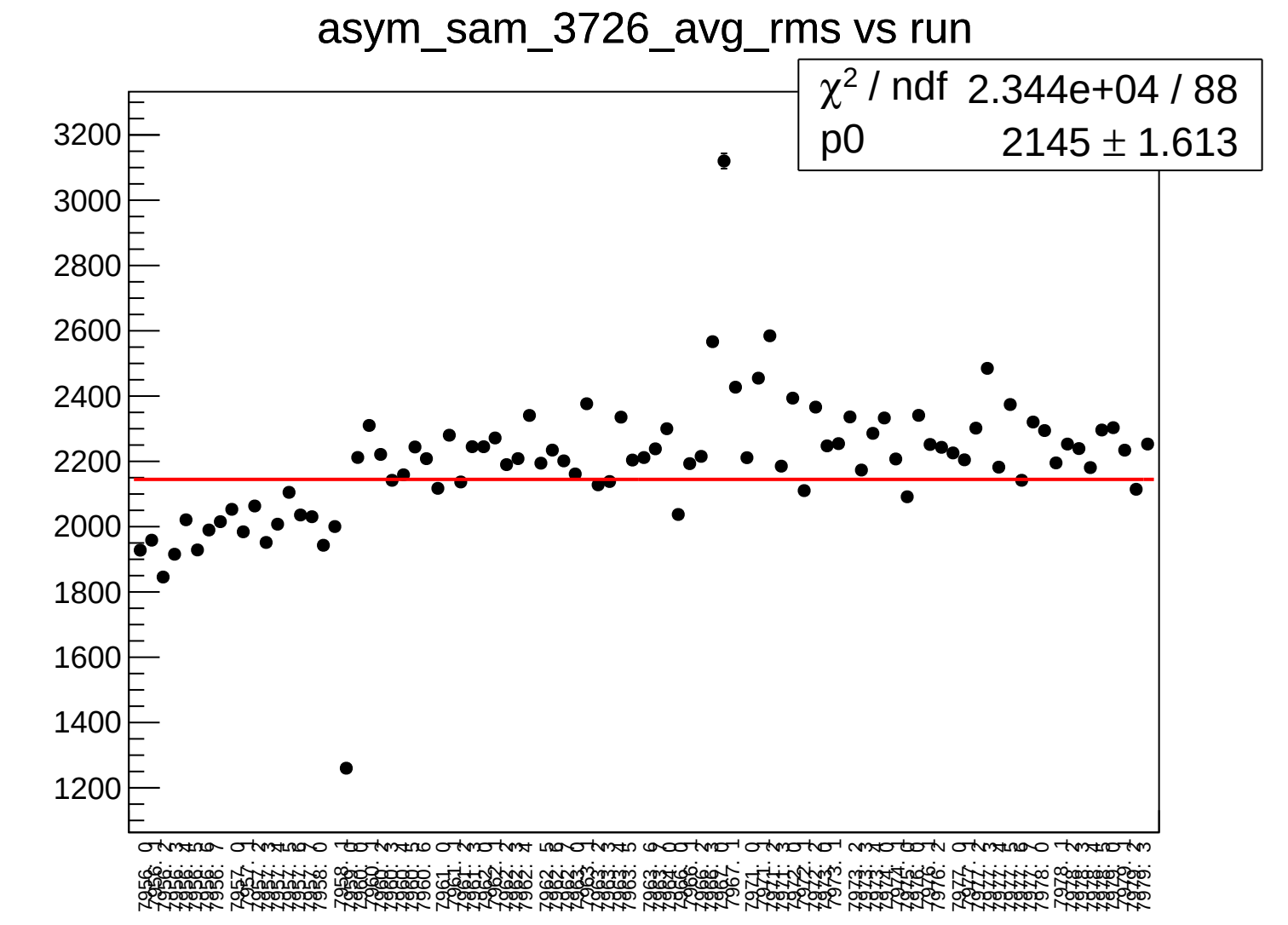

asym_sam_3726_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 113 / 88
p0 1015 ± 2162
pull
Entries 89
Mean 1603
Std Dev 0

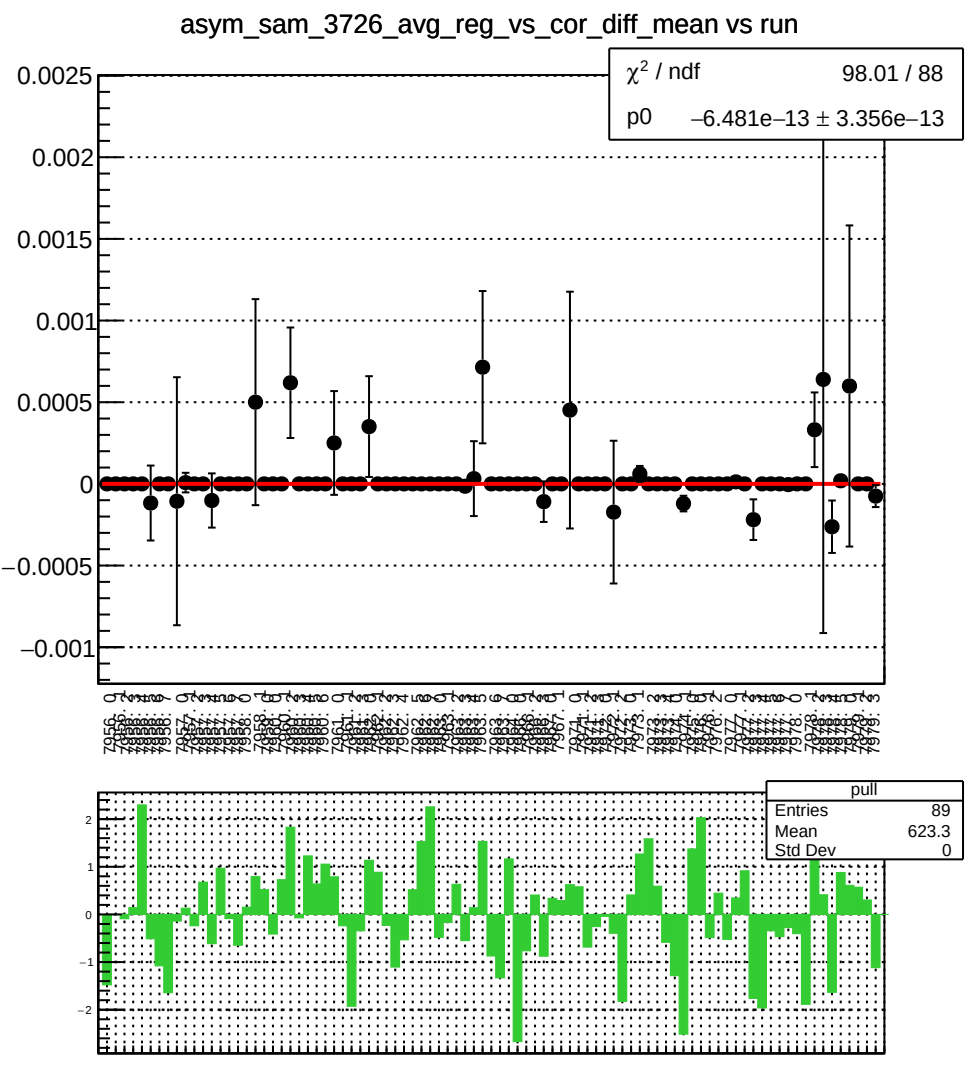

pull1D
Entries 89
Mean 0.002319
Std Dev 1.127

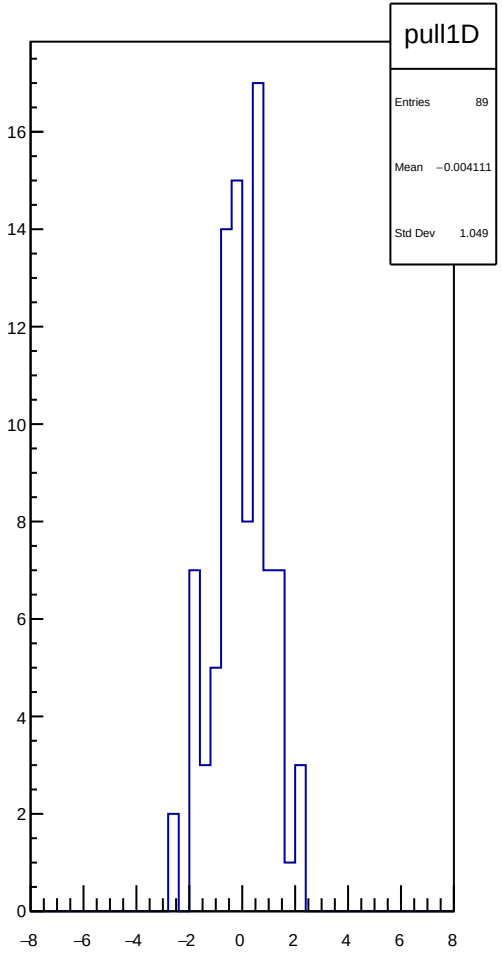

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.146e+04 / 88
p0 2039 ± 1.529
2600
2500
2400
2300
2200
2100
2000
1900
1800

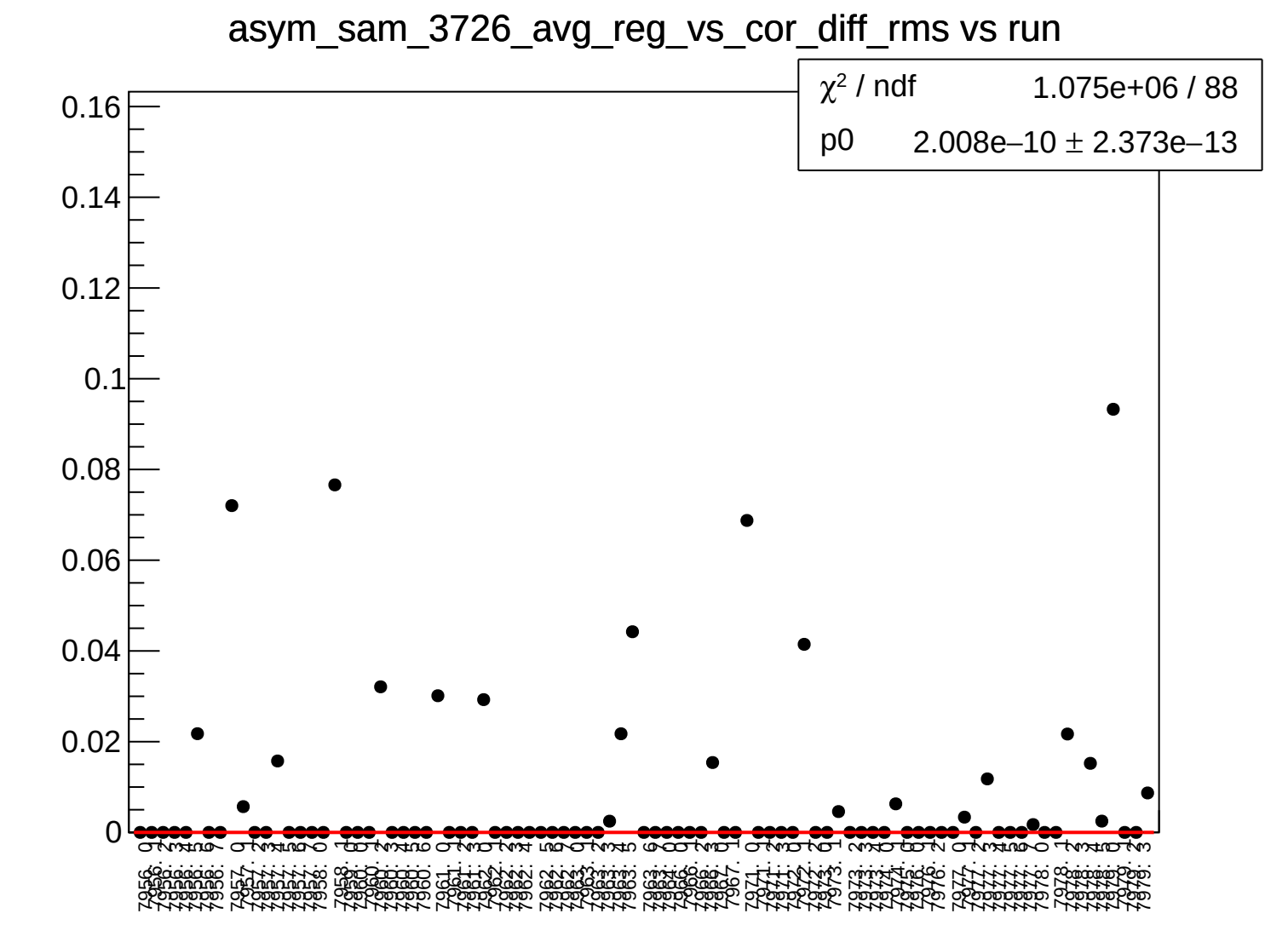

asym_sam_3726_avg_mean vs run
×10^3
χ² / ndf 113.3 / 88
p0 −828.8 ± 2282
pull
Entries 89
Mean 535.7
Std Dev 0

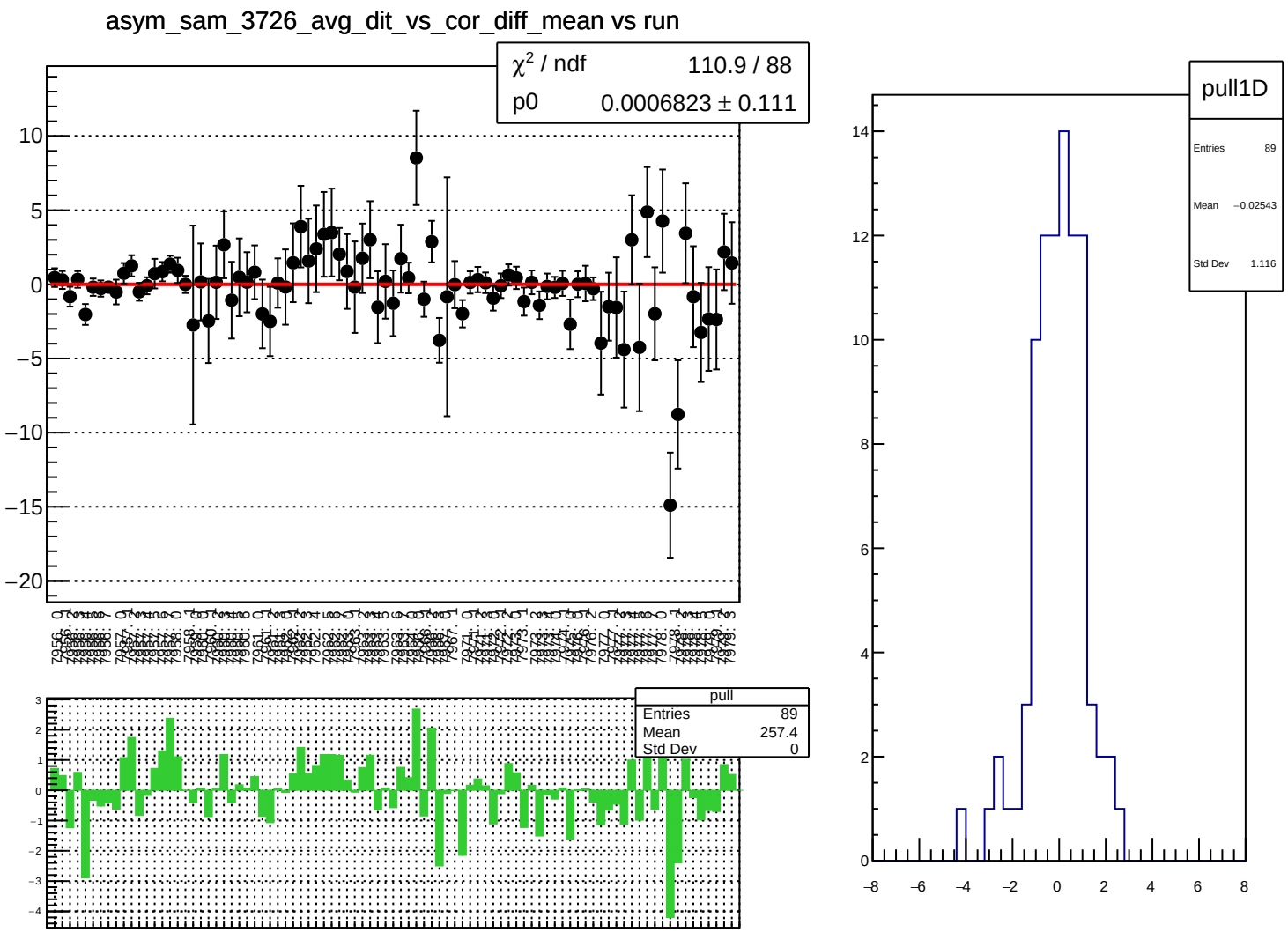

pull1D
Entries 89
Mean −0.007488
Std Dev 1.128

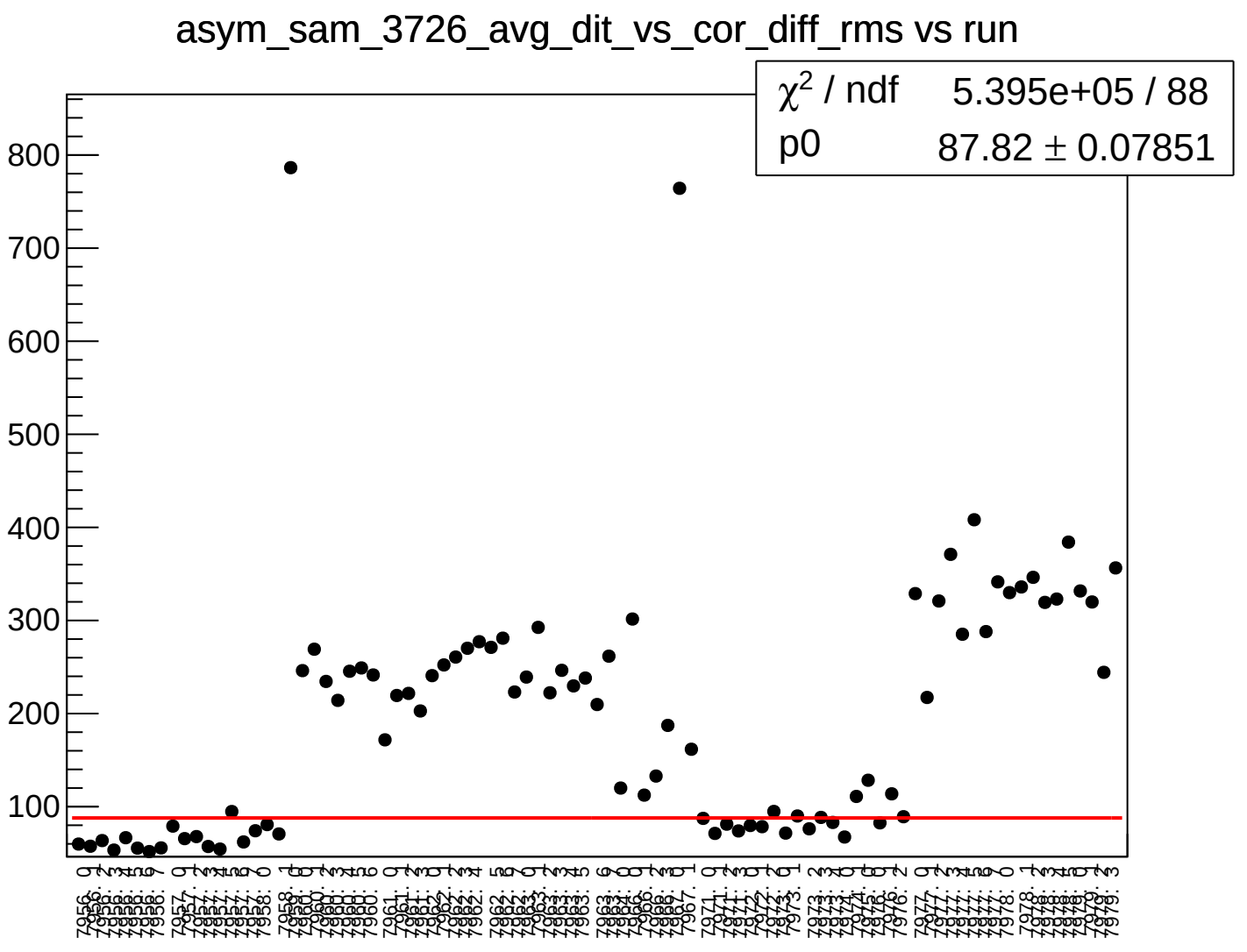

asym_sam_3726_avg_rms vs run
$\chi^2$ / ndf 2.344e+04 / 88
p0 2145 ± 1.613
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

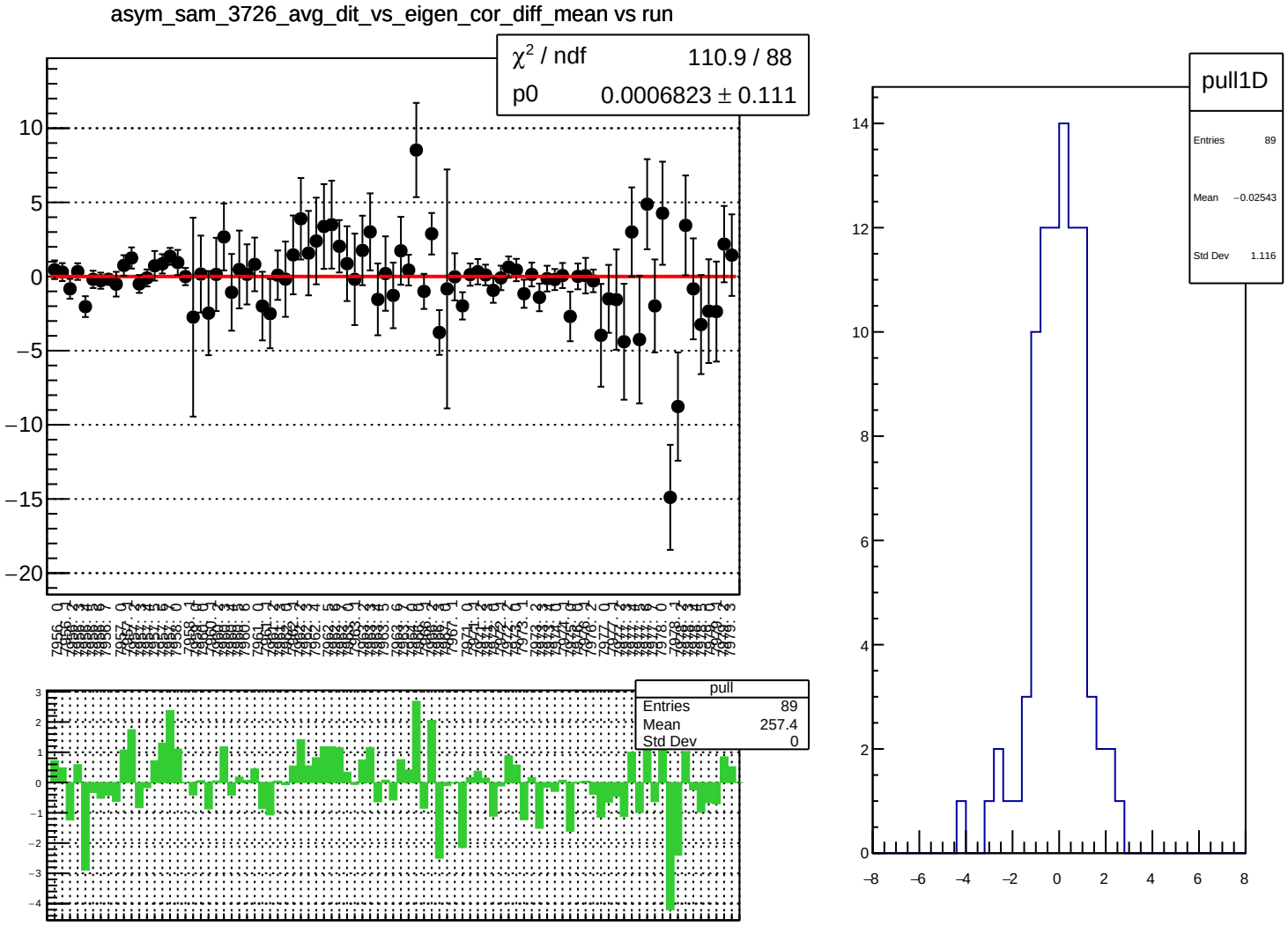

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.01 / 88
p0 −6.481e−13 ± 3.356e−13
pull
Entries 89
Mean 623.3
Std Dev 0

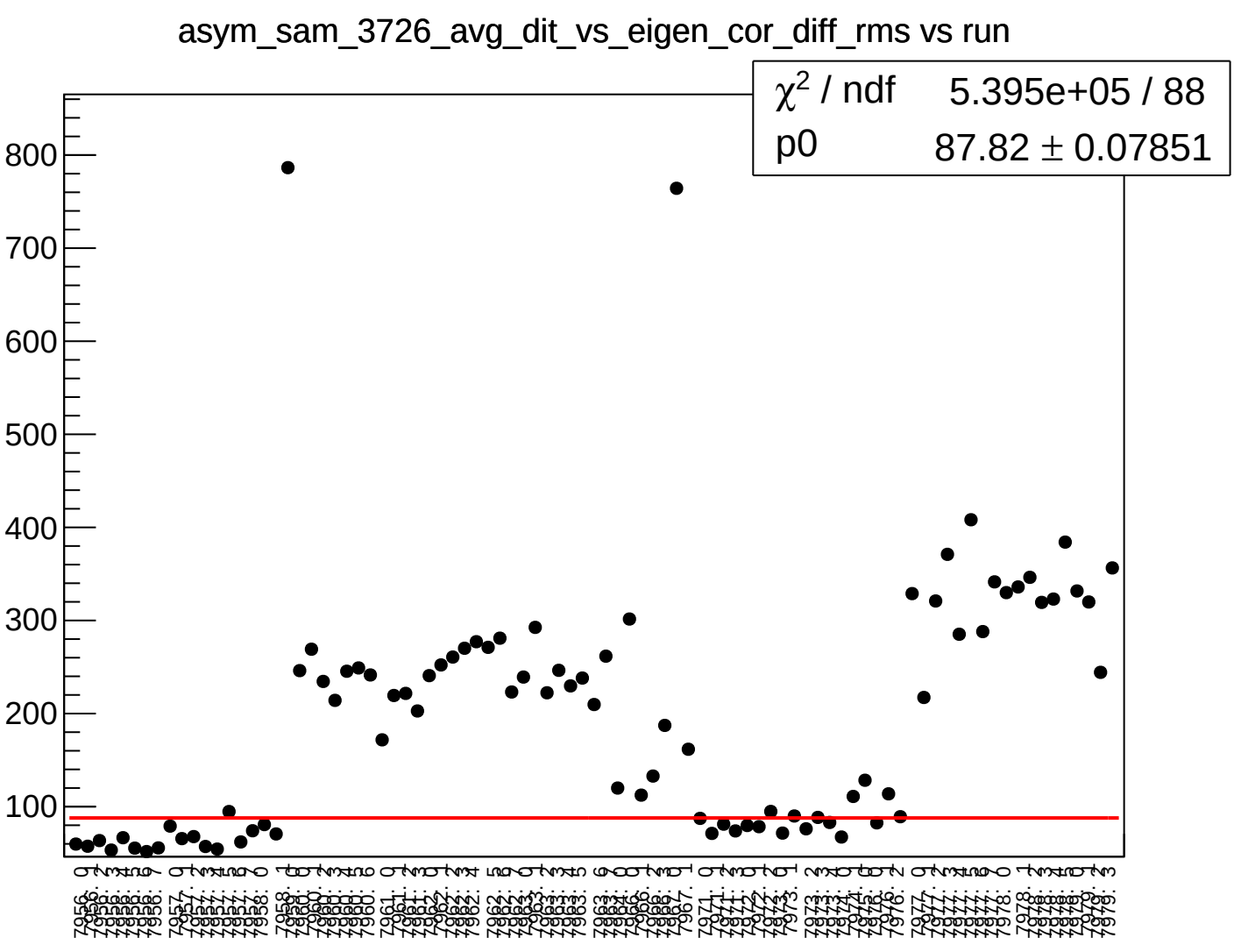

pull1D
Entries 89
Mean −0.004111
Std Dev 1.049

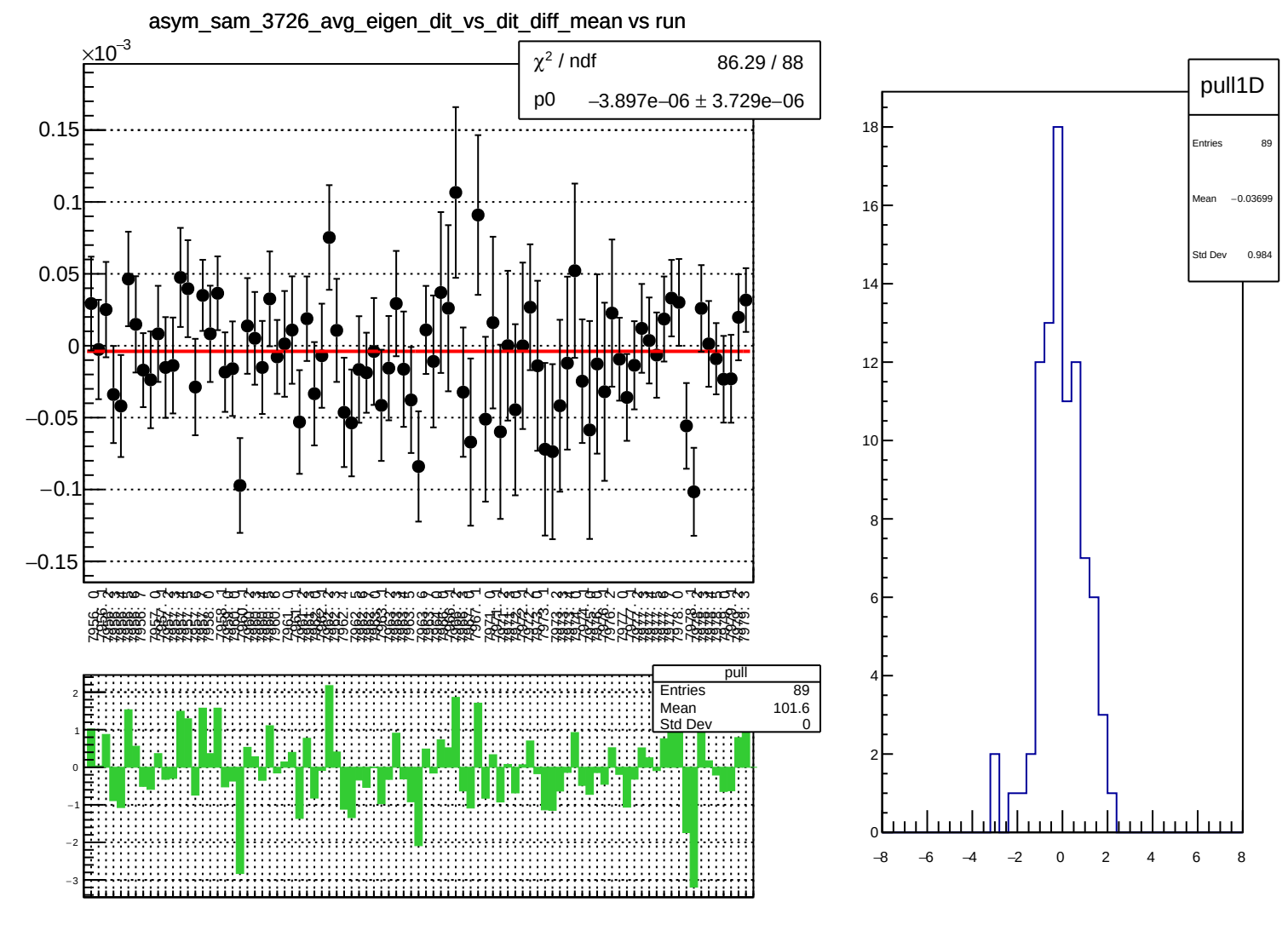

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.075e+06 / 88
p0 2.008e−10 ± 2.373e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

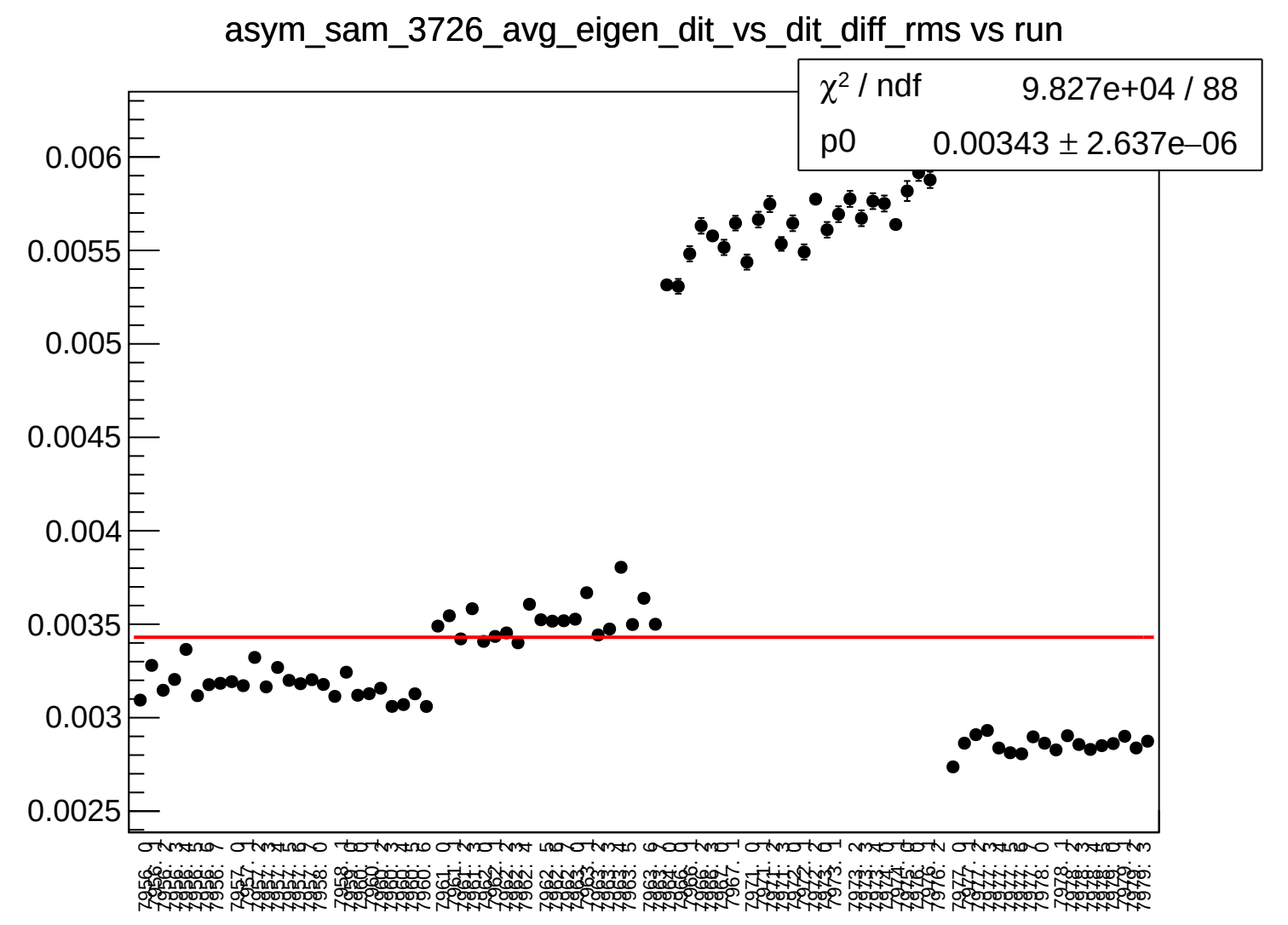

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 110.9 / 88
p0 0.0006823 ± 0.111
pull
Entries 89
Mean 257.4
Std Dev 0
pull1D
Entries 89
Mean −0.02543
Std Dev 1.116

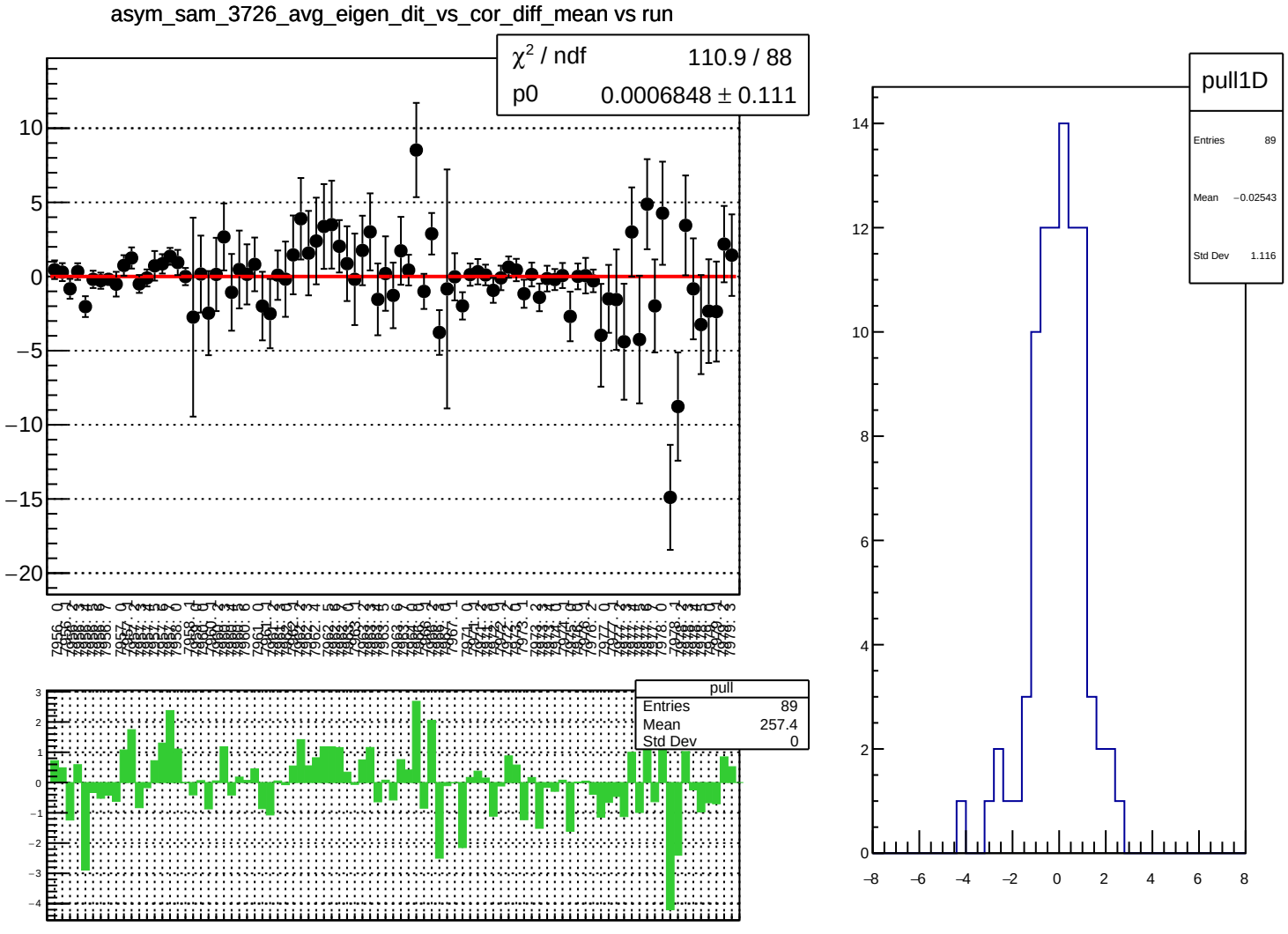

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.395e+05 / 88
p0 87.82 ± 0.07851
800
700
600
500
400
300
200
100

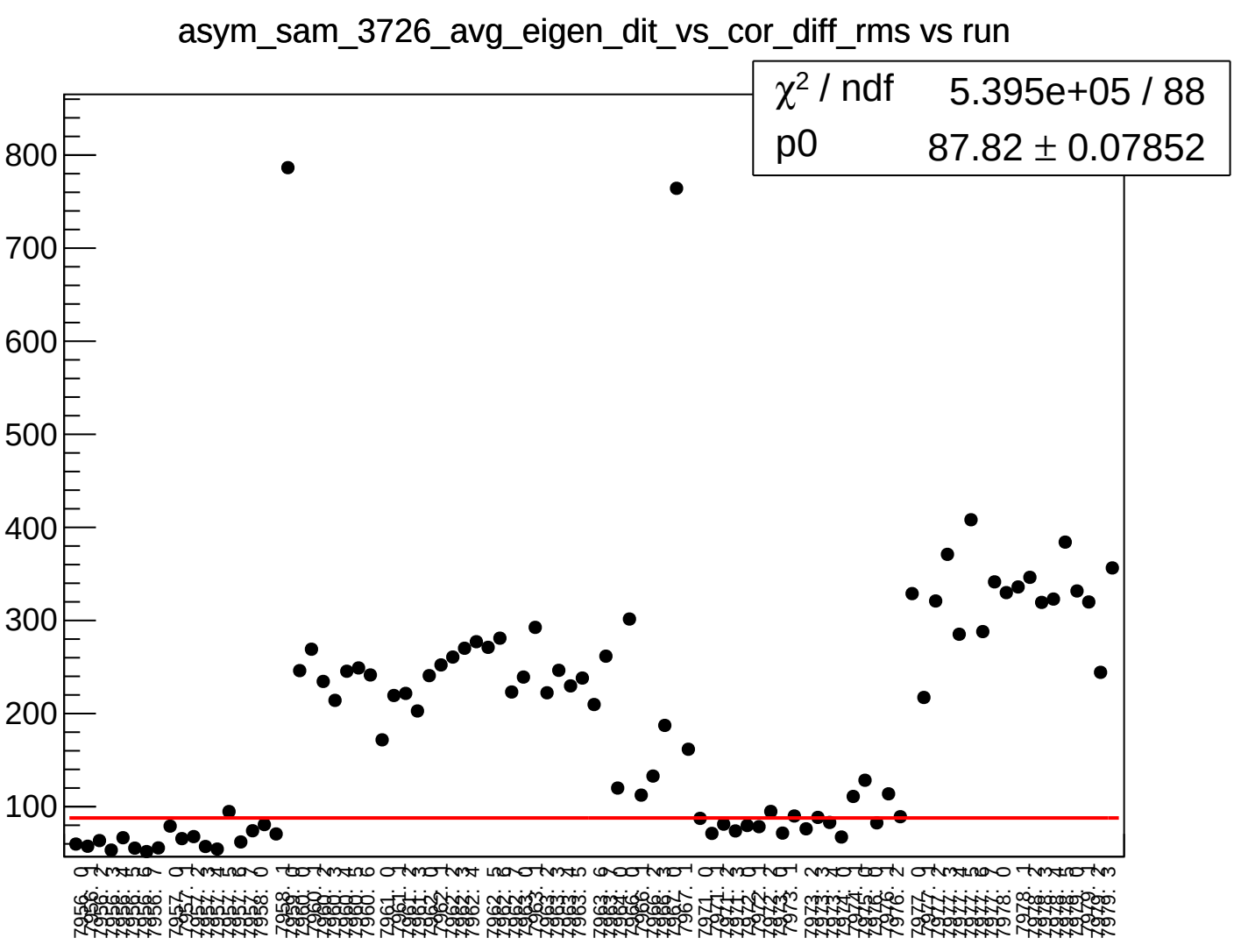

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.9 / 88
p0 0.0006823 ± 0.111
pull
Entries 89
Mean 257.4
Std Dev 0
pull1D
Entries 89
Mean −0.02543
Std Dev 1.116

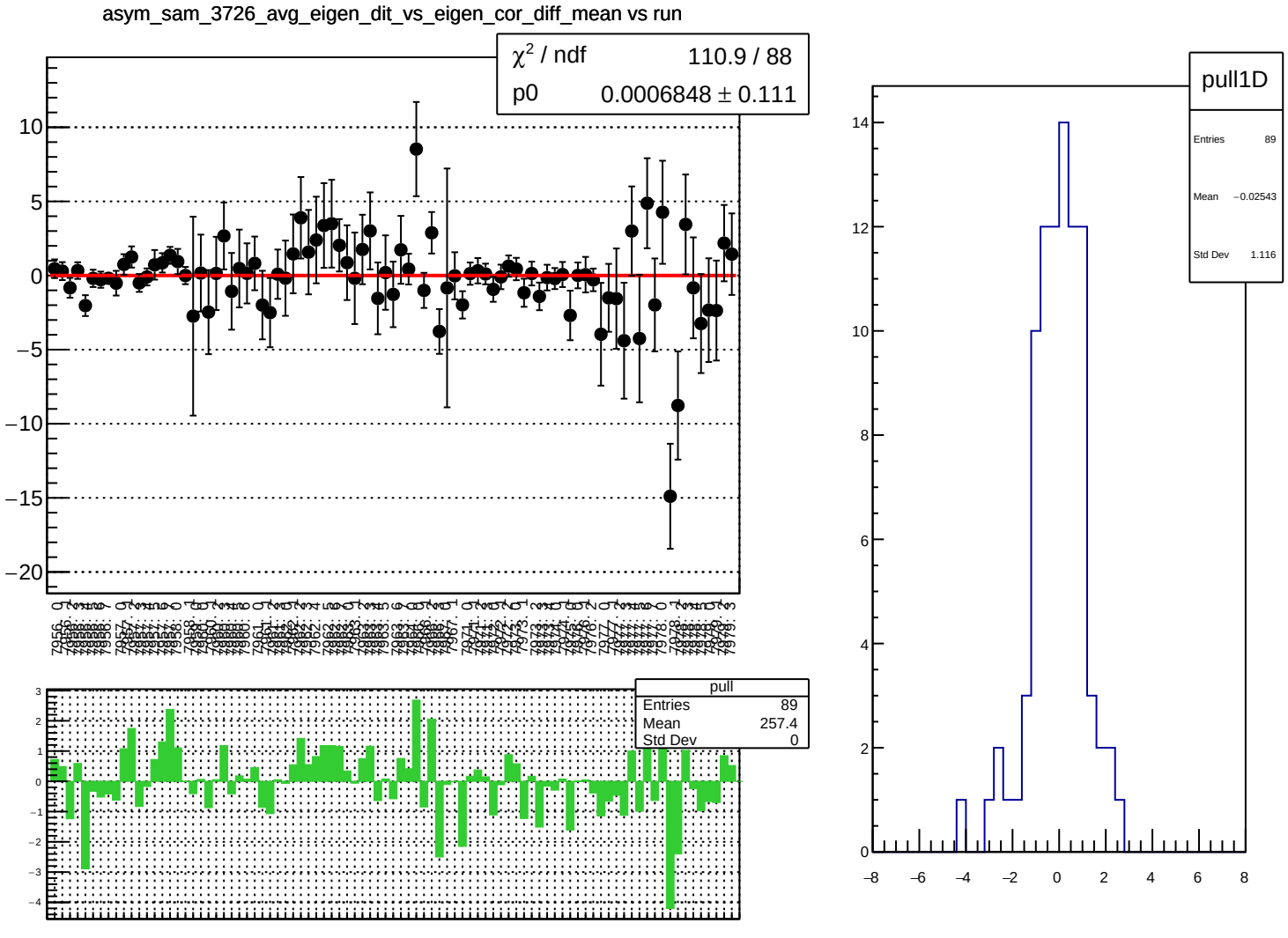

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.395e+05 / 88
p0 87.82 ± 0.07851
800
700
600
500
400
300
200
100

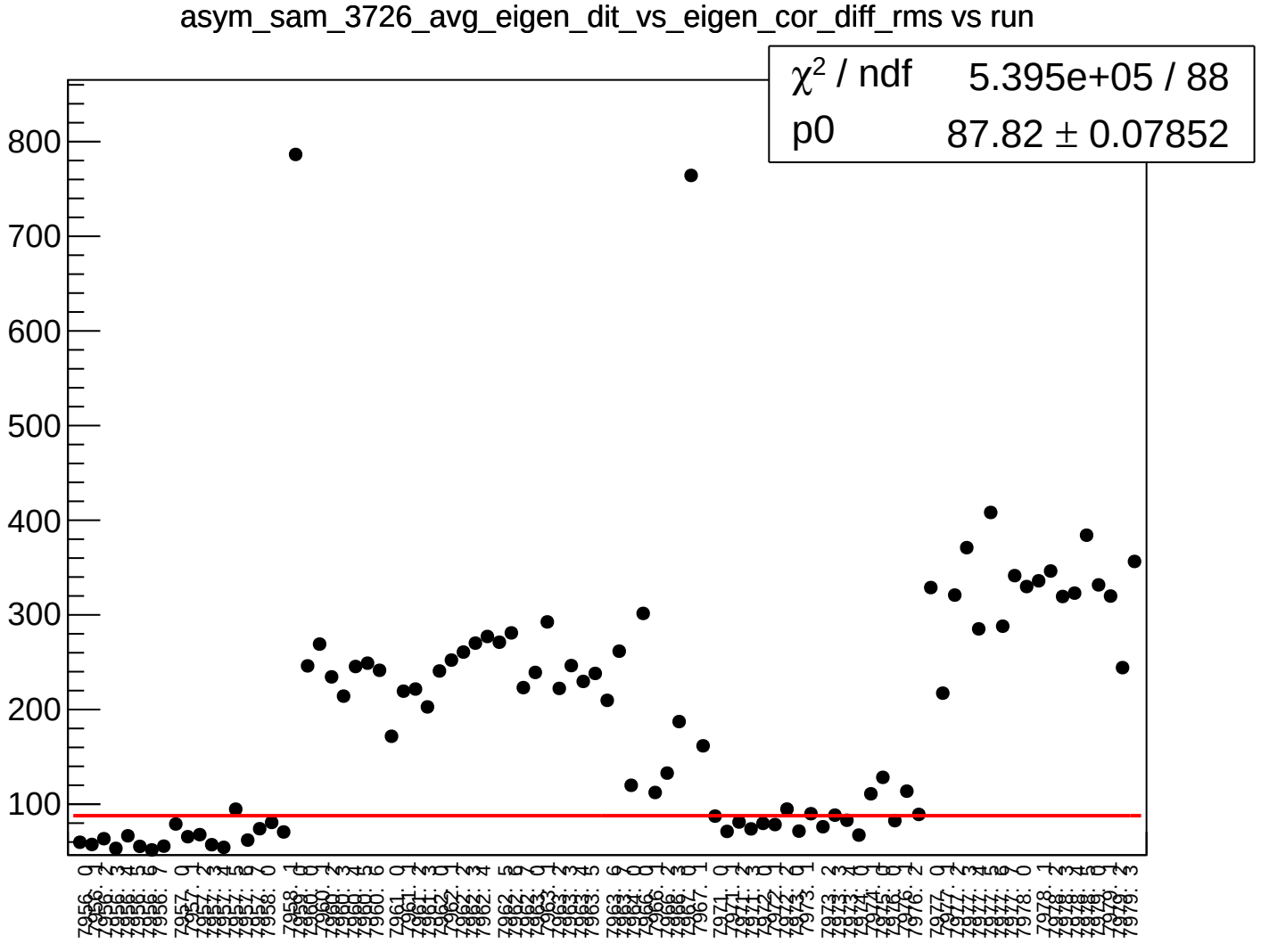

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.29 / 88
p0 −3.897e−06 ± 3.729e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 101.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.03699
Std Dev 0.984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

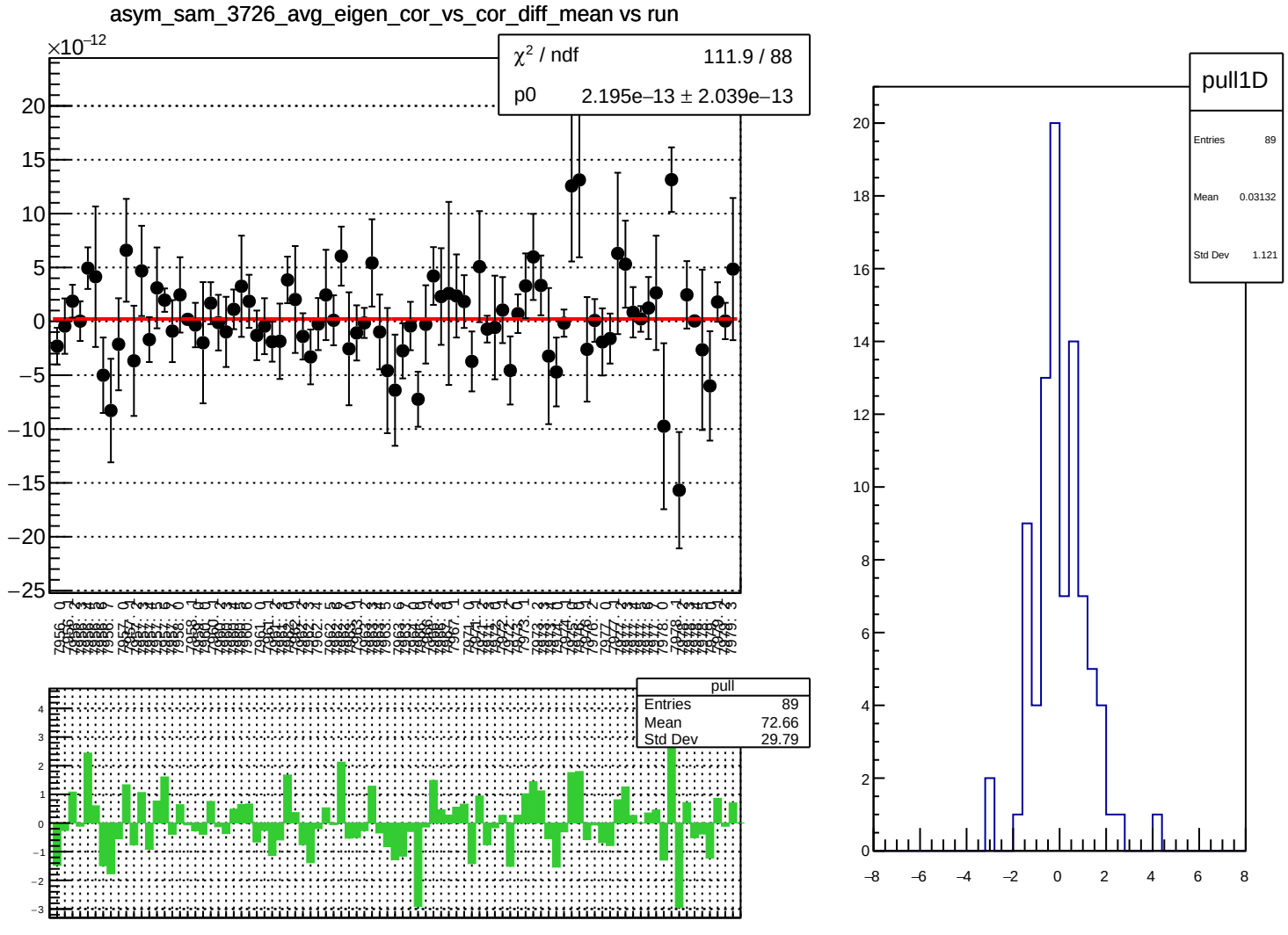

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.827e+04 / 88
p0 0.00343 ± 2.637e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

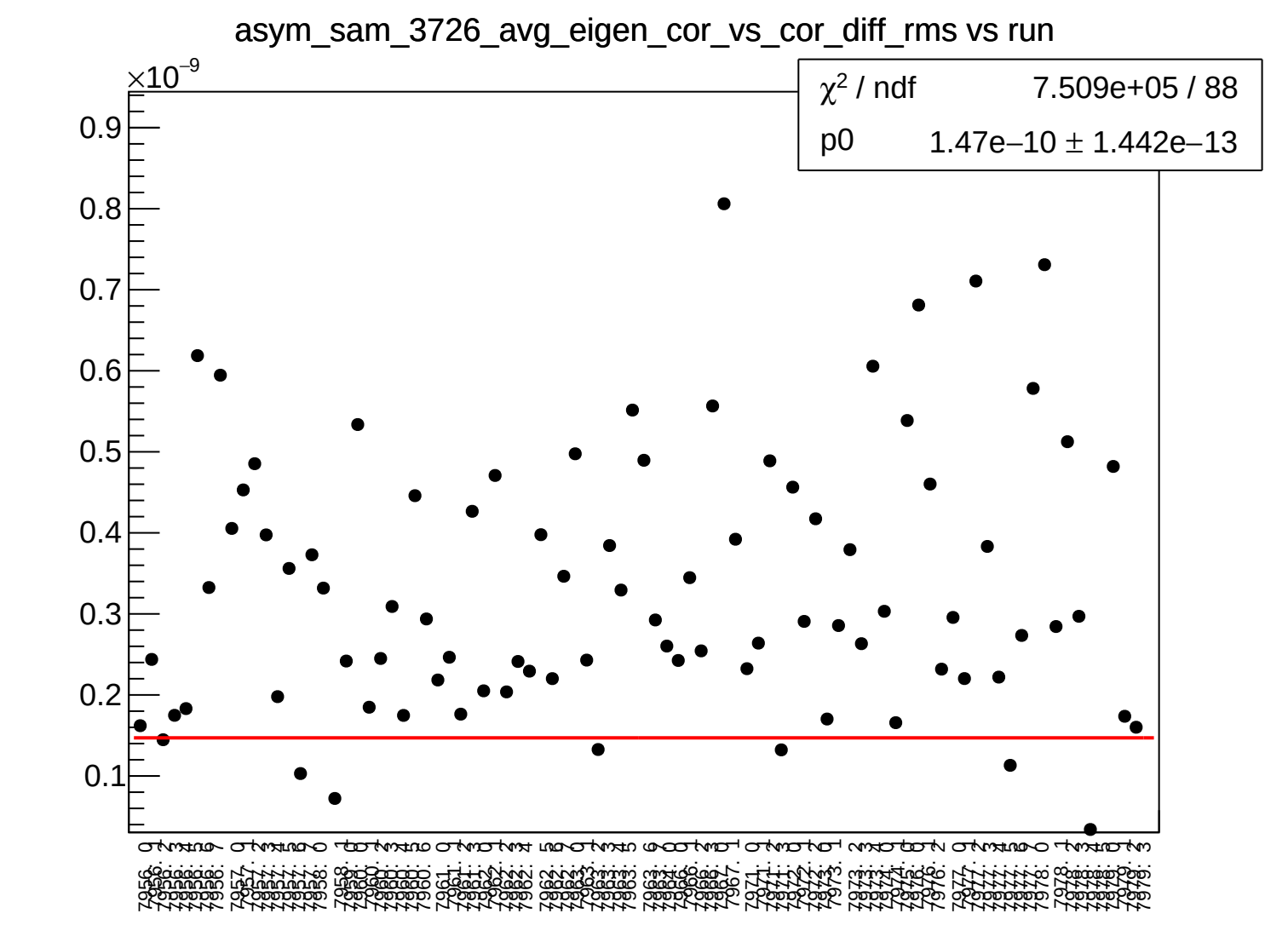

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.9 / 88
p0 0.0006848 ± 0.111
pull
Entries 89
Mean 257.4
Std Dev 0
pull1D
Entries 89
Mean −0.02543
Std Dev 1.116

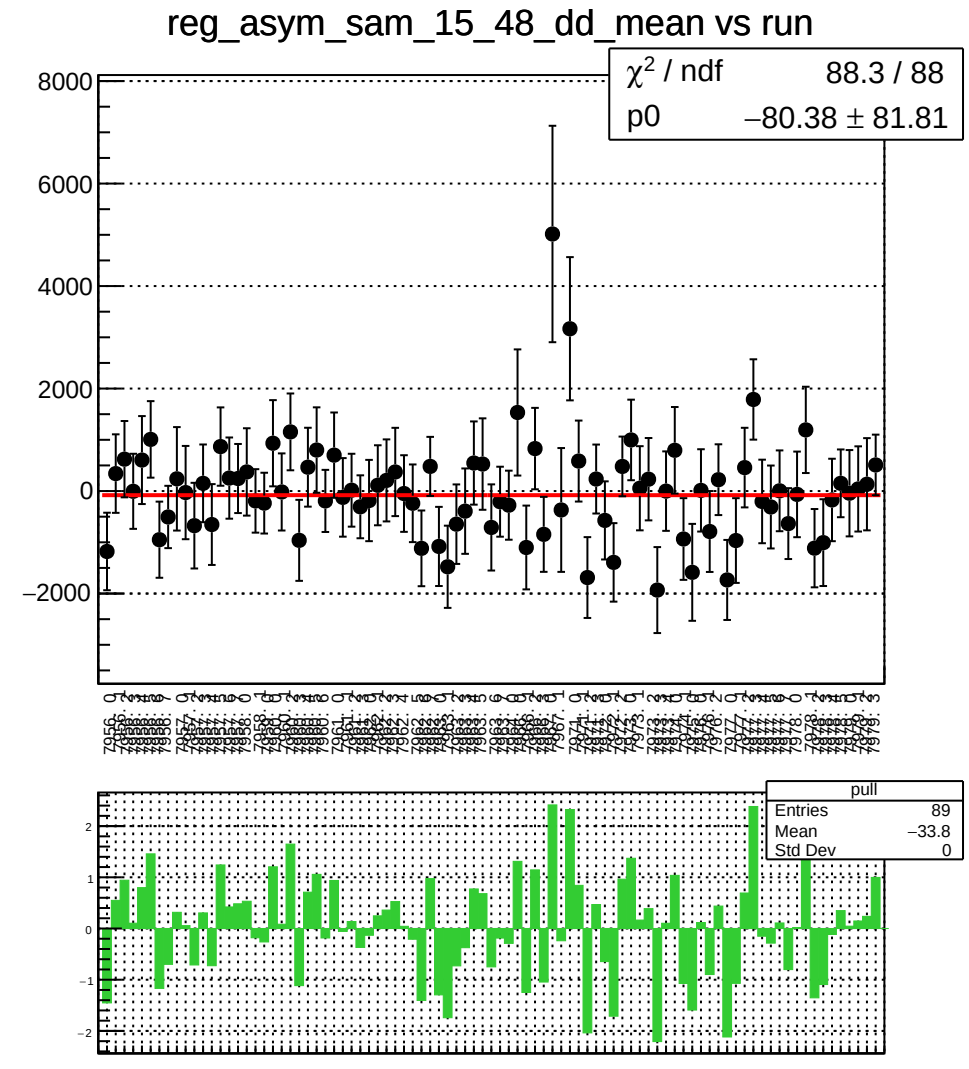

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.395e+05 / 88
p0 87.82 ± 0.07852
800
700
600
500
400
300
200
100

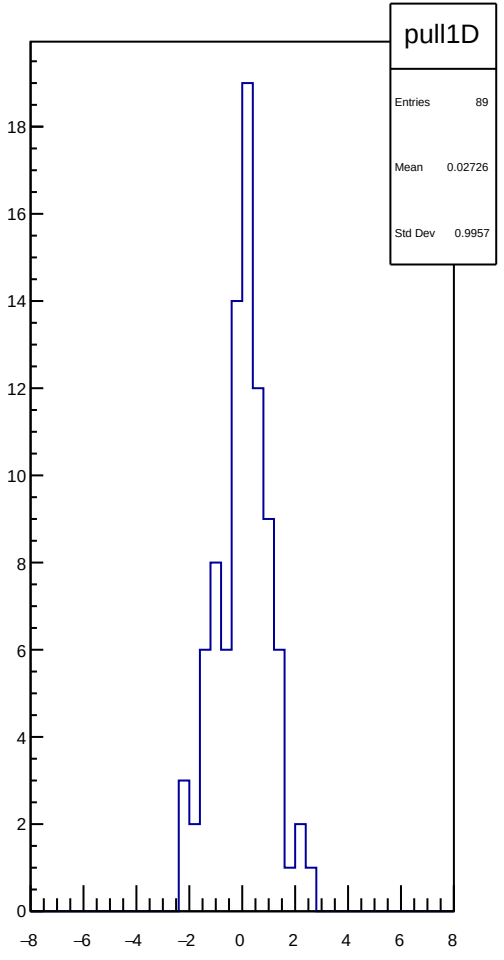

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.9 / 88
p0 0.0006848 ± 0.111
pull
Entries 89
Mean 257.4
Std Dev 0
pull1D
Entries 89
Mean −0.02543
Std Dev 1.116

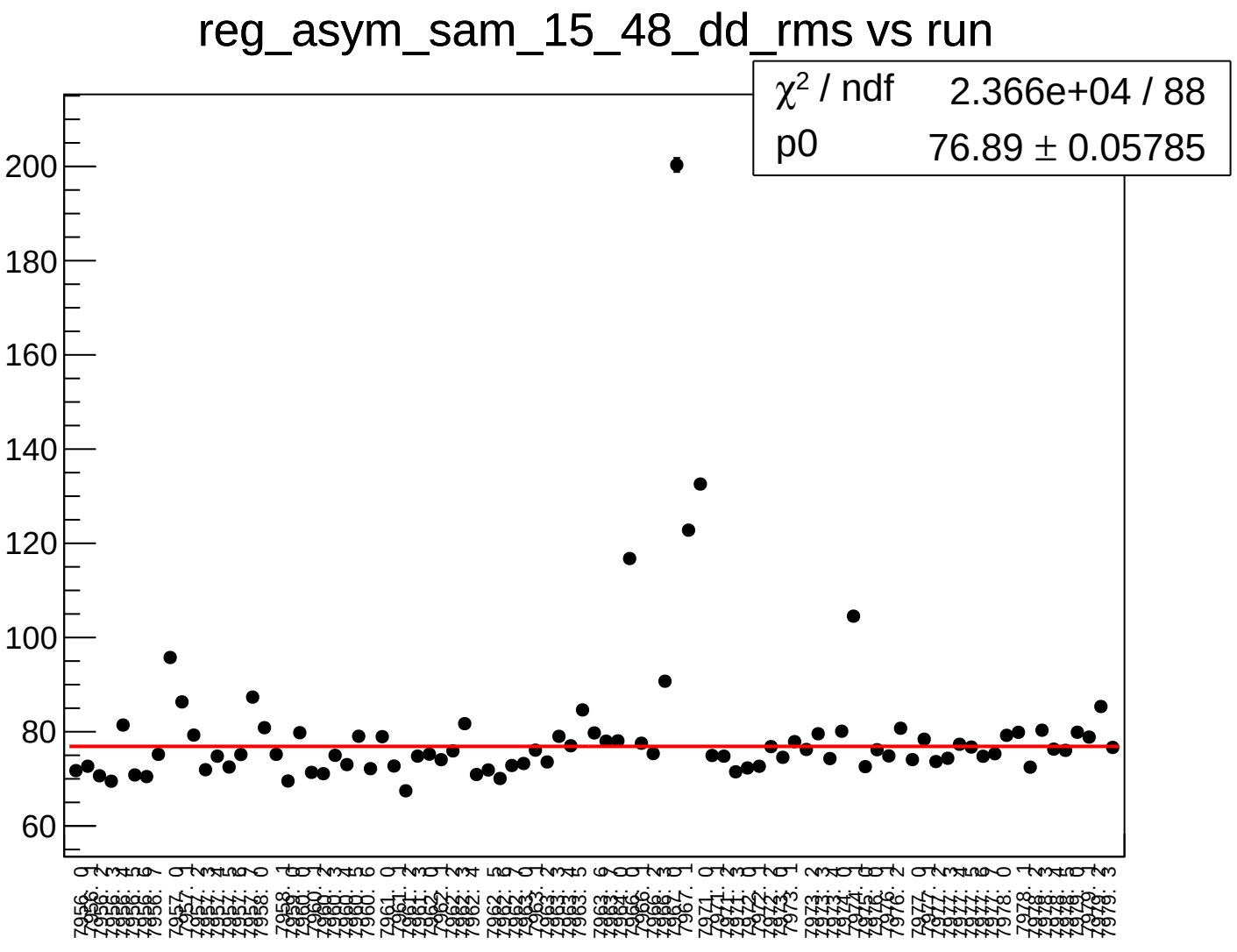

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.395e+05 / 88
p0 87.82 ± 0.07852
800
700
600
500
400
300
200
100

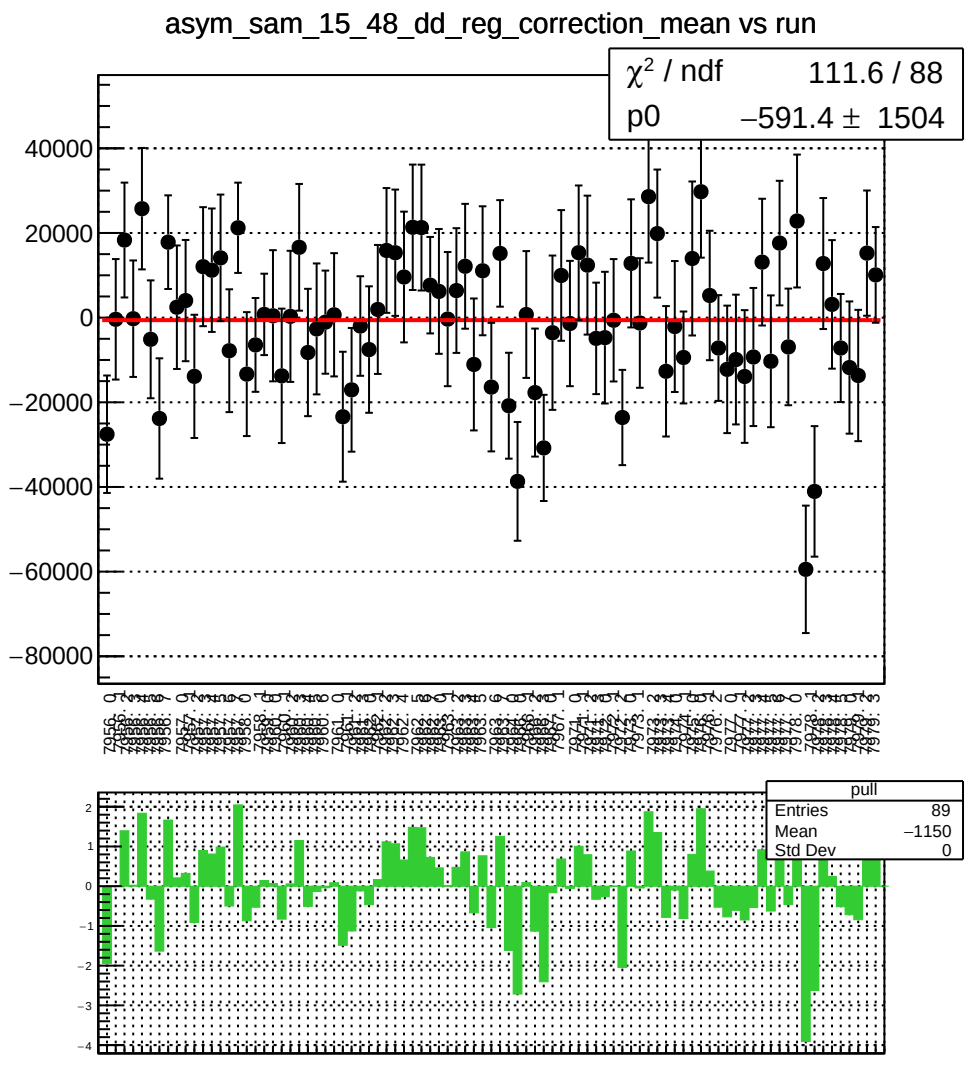

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.9 / 88
p0 2.195e−13 ± 2.039e−13
pull
Entries 89
Mean 72.66
Std Dev 29.79
pull1D
Entries 89
Mean 0.03132
Std Dev 1.121

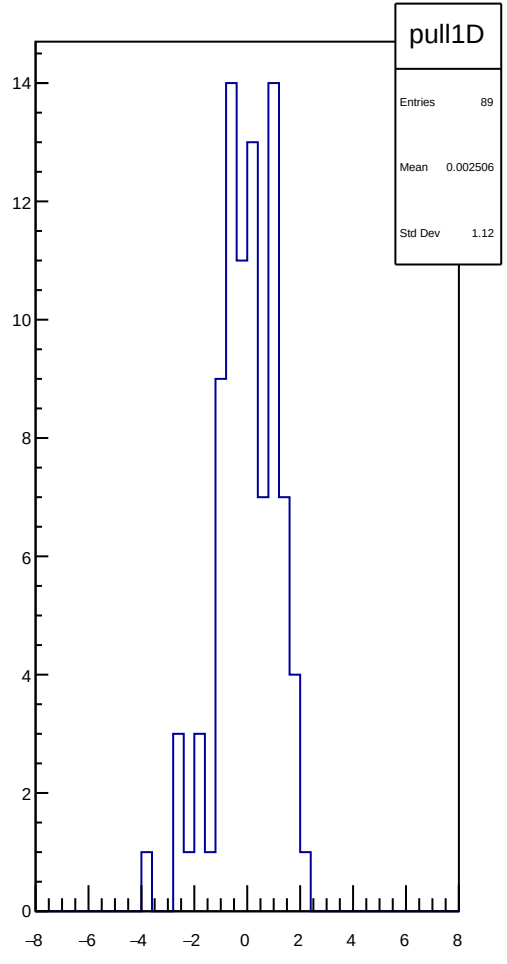

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.509e+05 / 88
p0 1.47e−10 ± 1.442e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

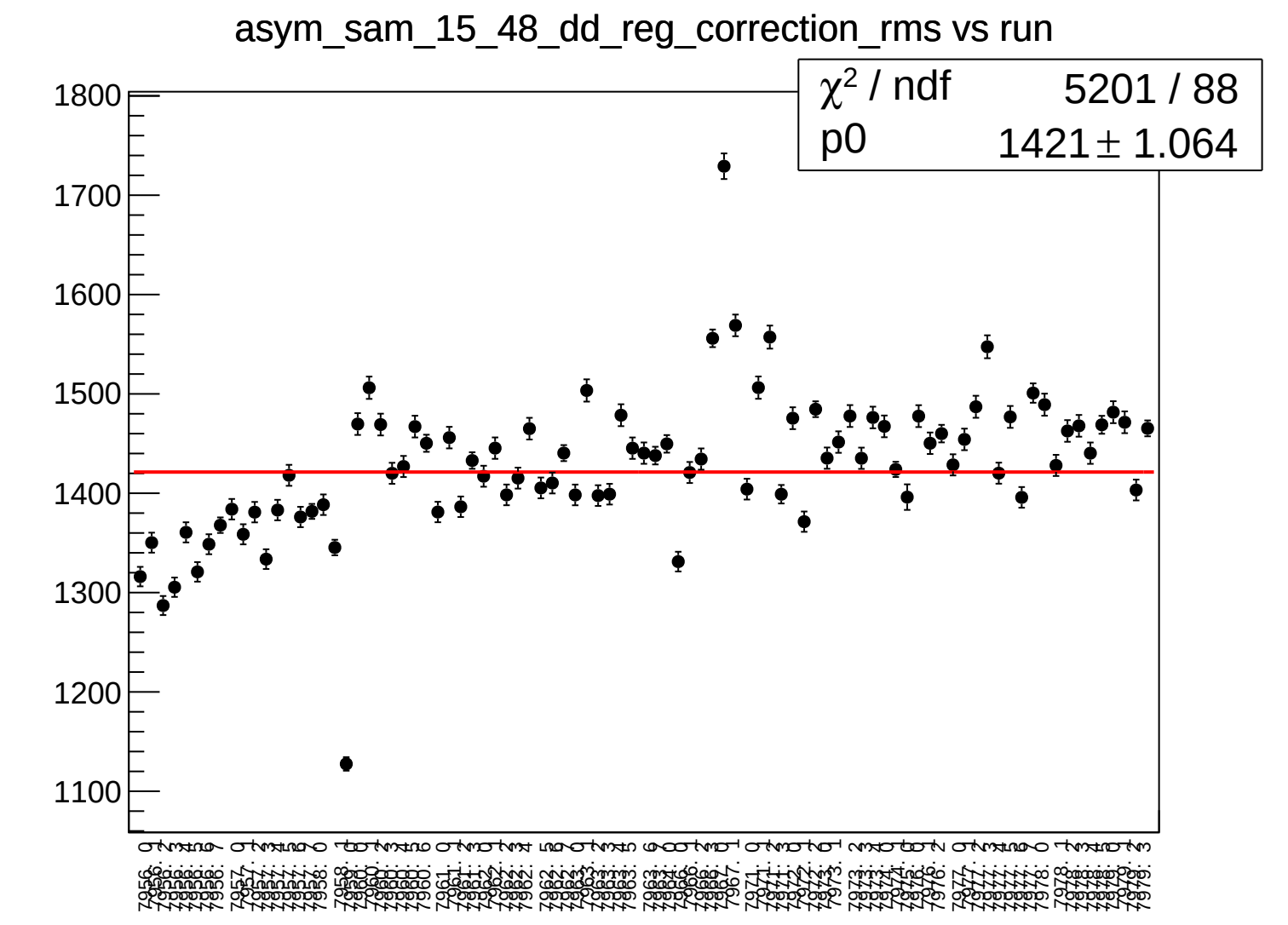

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 88.3 / 88
p0 −80.38 ± 81.81
8000
6000
4000
2000
0
−2000
pull
Entries 89
Mean −33.8
Std Dev 0
2
1
0
−1
−2

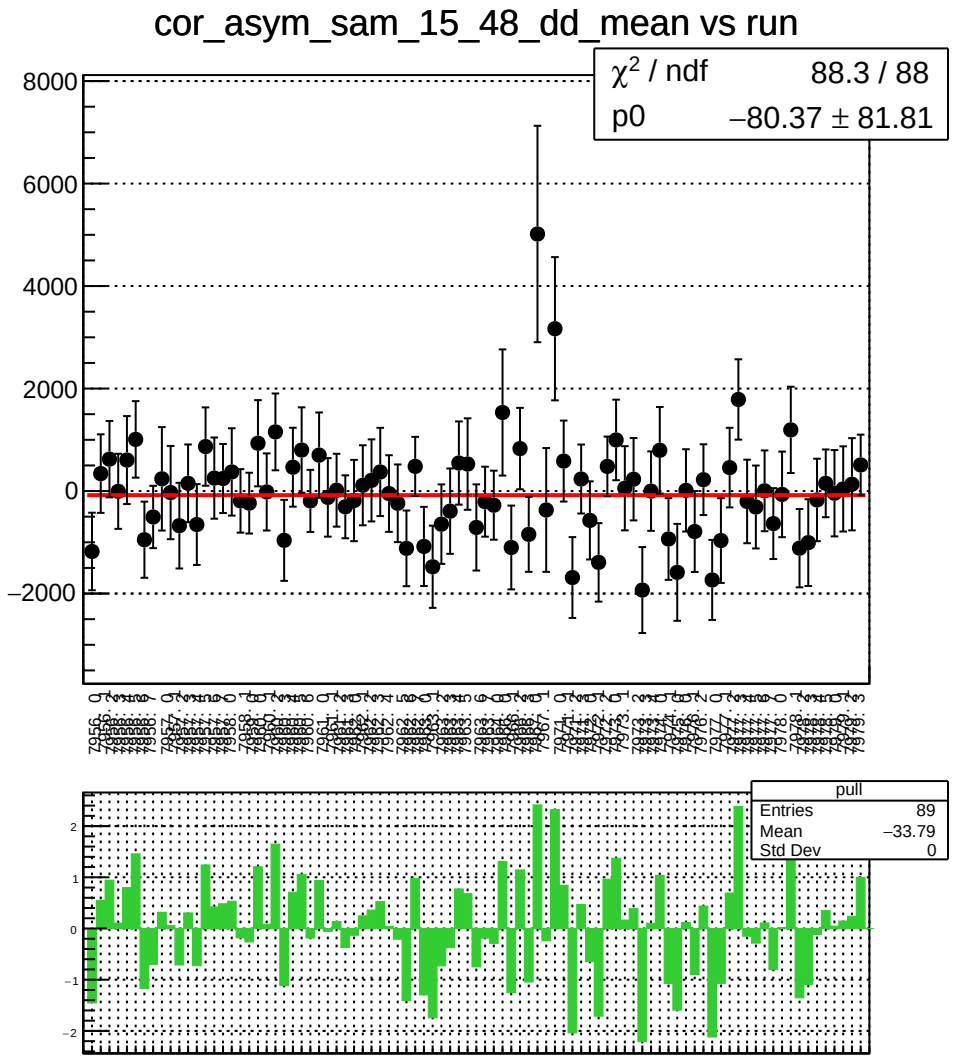

pull1D
Entries 89
Mean 0.02726
Std Dev 0.9957
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

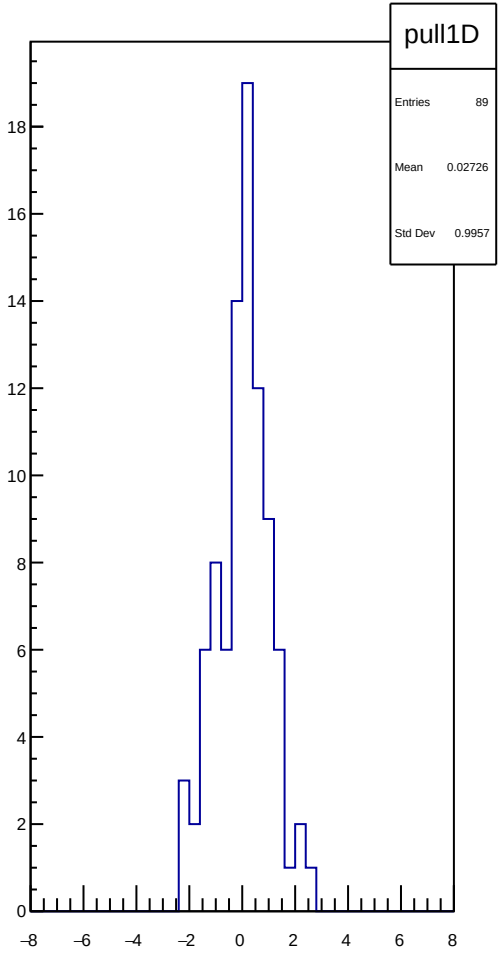

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.366e+04 / 88
p0 76.89 ± 0.05785
200
180
160
140
120
100
80
60

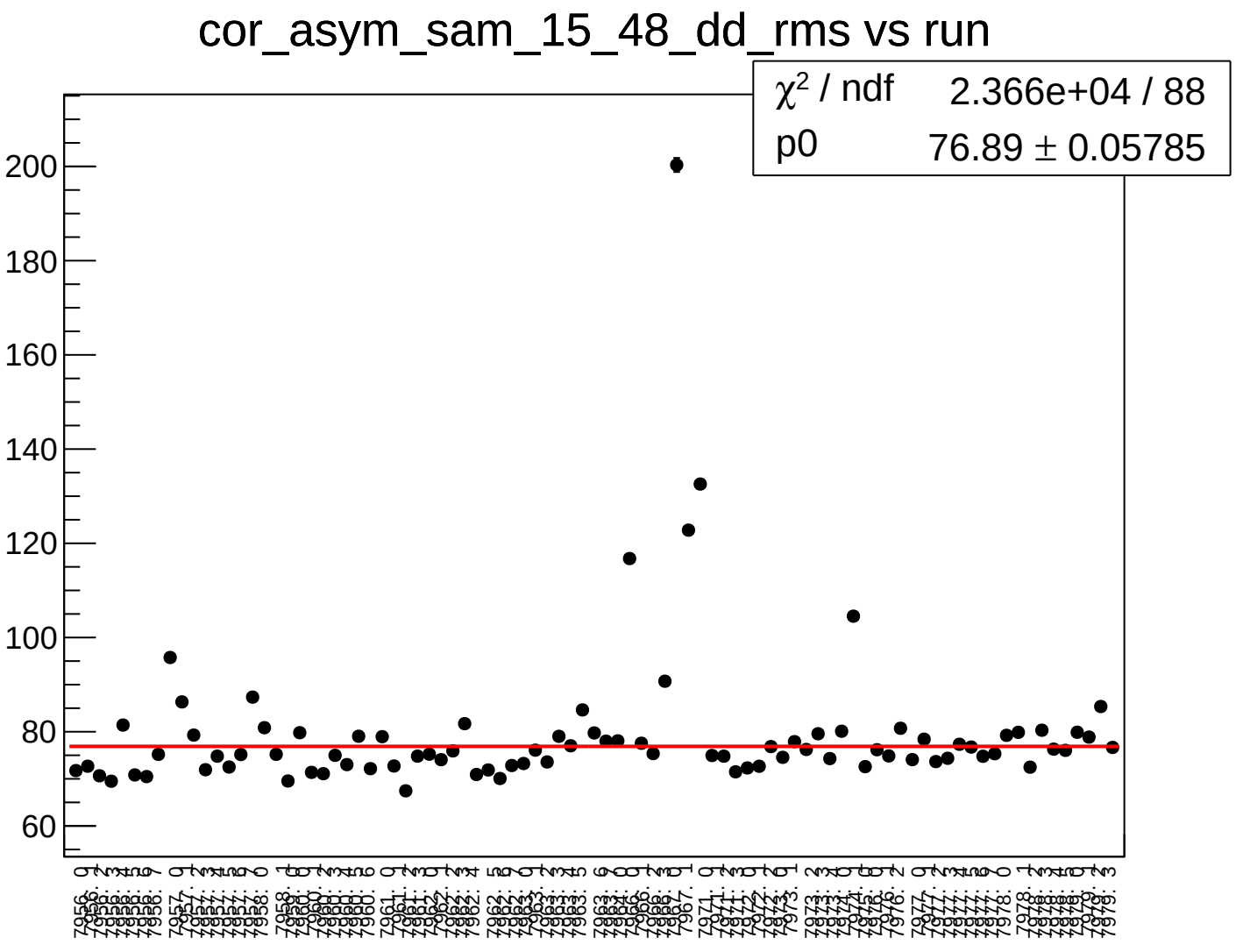

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 111.6 / 88
p0 −591.4 ± 1504
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −1150
Std Dev 0
2
1
0
−1
−2
−3
−4

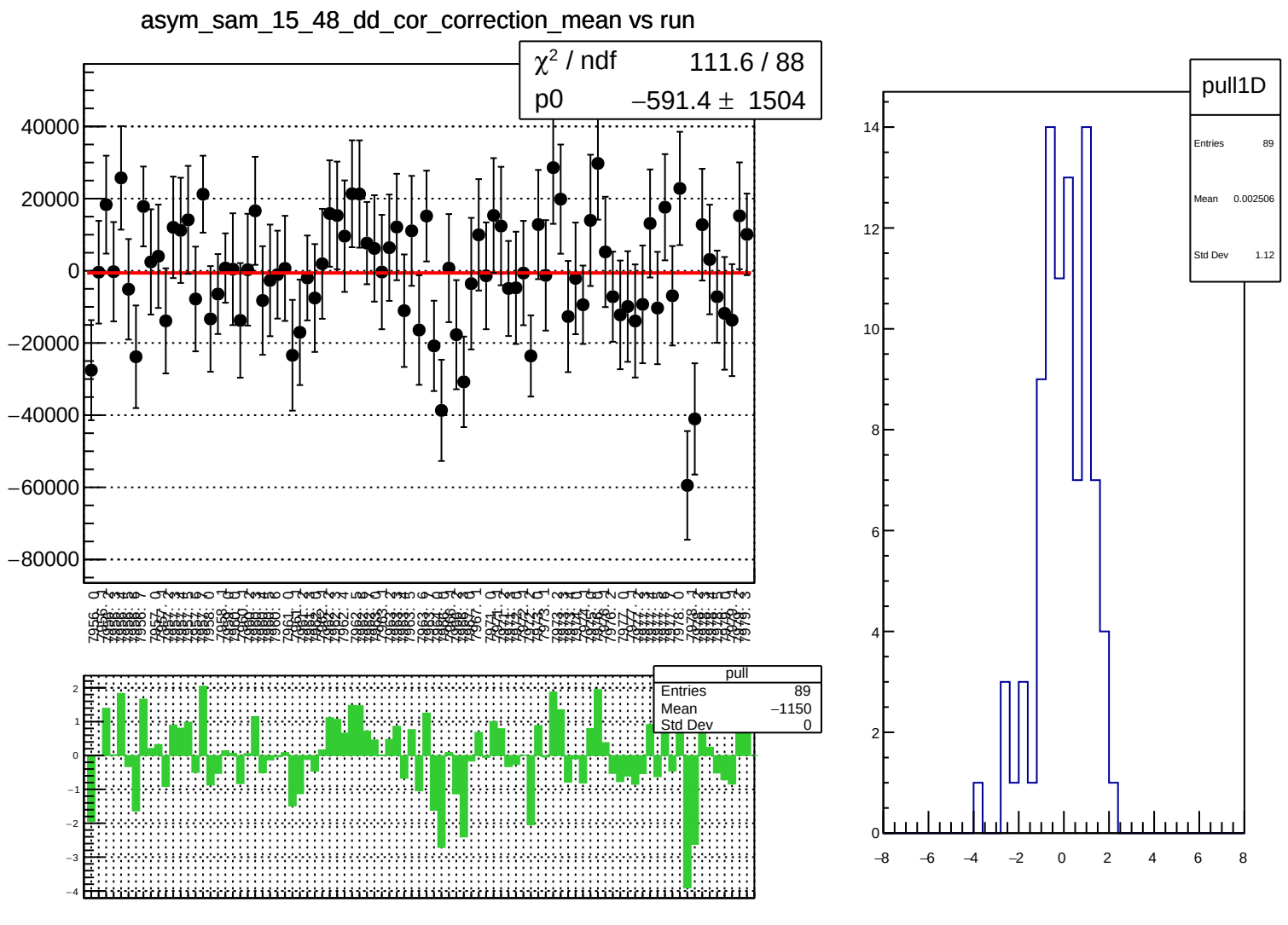

pull1D
Entries 89
Mean 0.002506
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

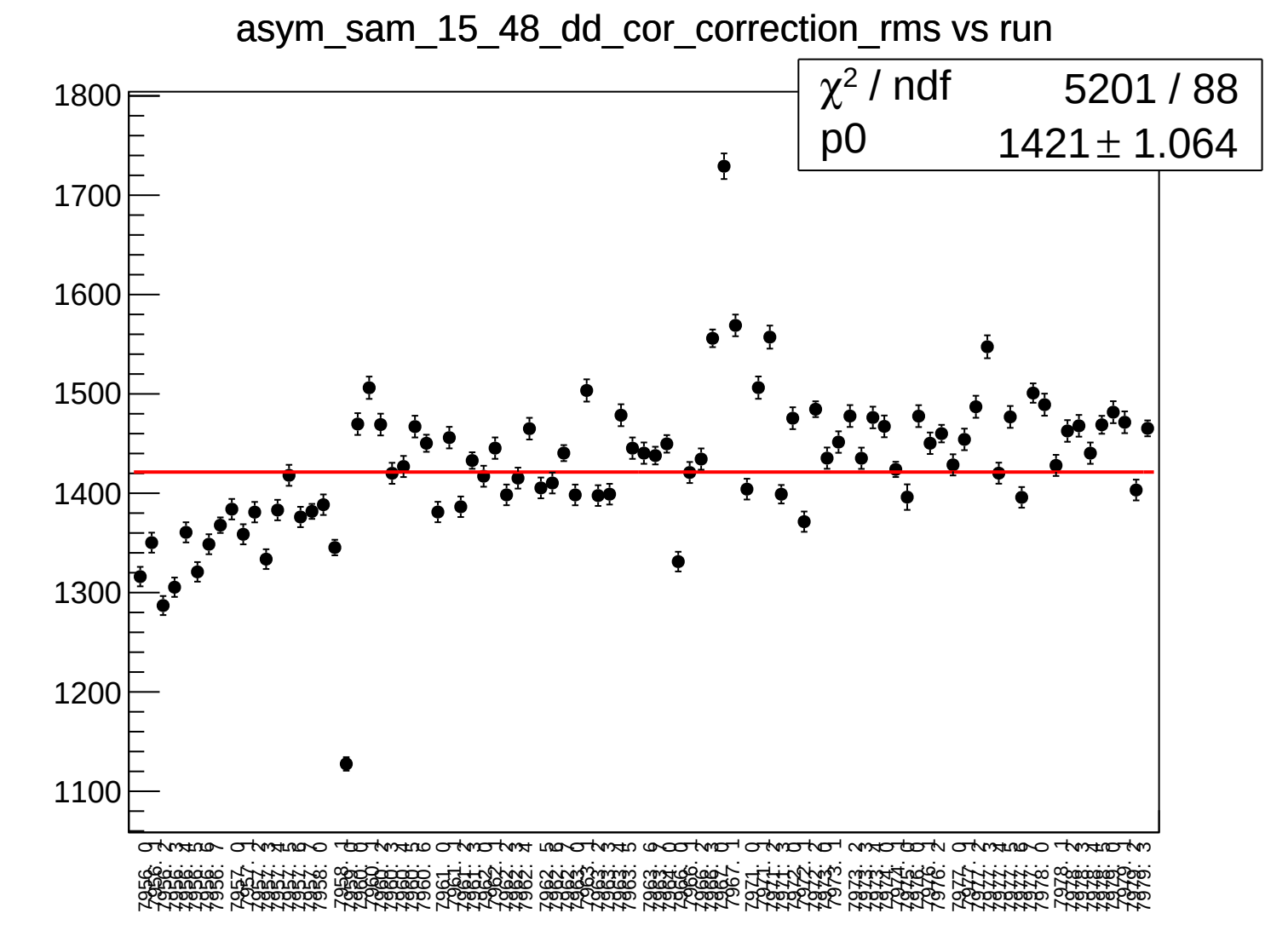

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 5201 / 88
p0 1421 ± 1.064
1800
1700
1600
1500
1400
1300
1200
1100

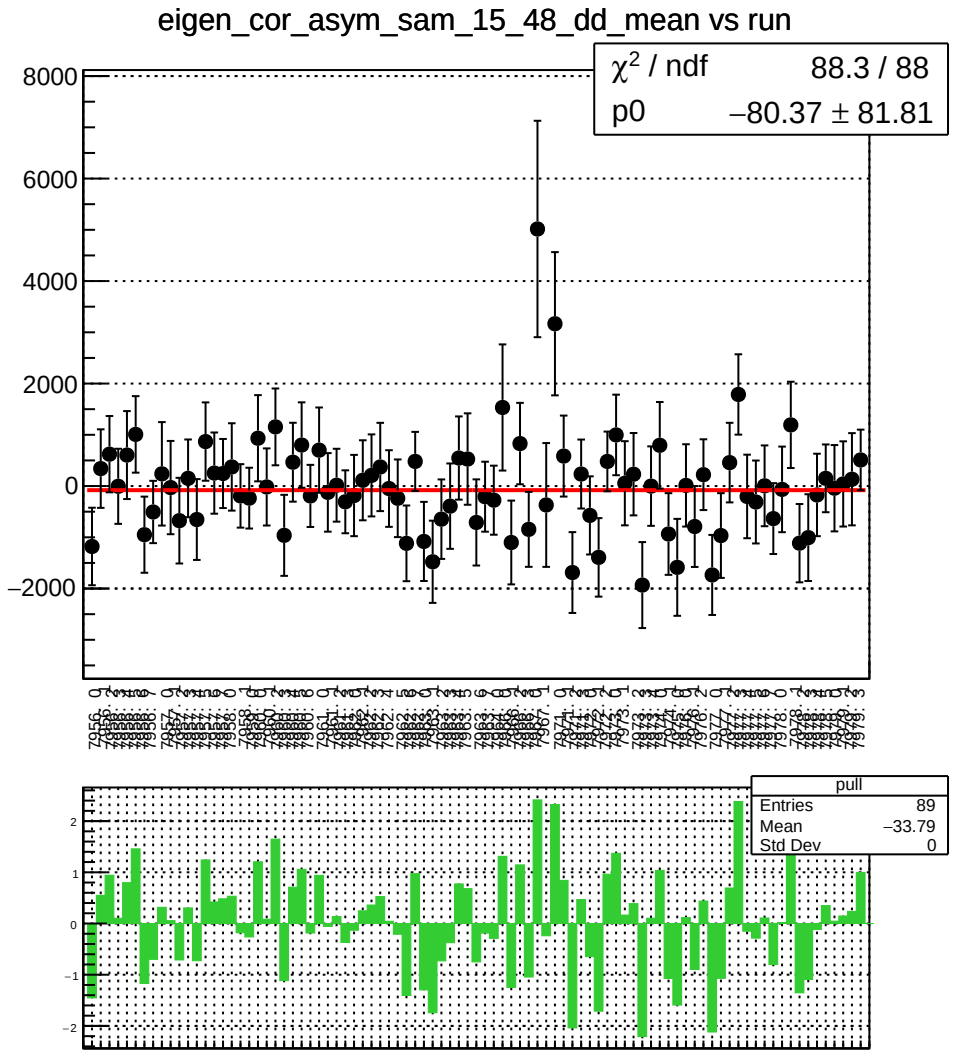

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 88.3 / 88
p0 −80.37 ± 81.81
8000
6000
4000
2000
0
−2000
pull
Entries 89
Mean −33.79
Std Dev 0
2
1
0
−1
−2

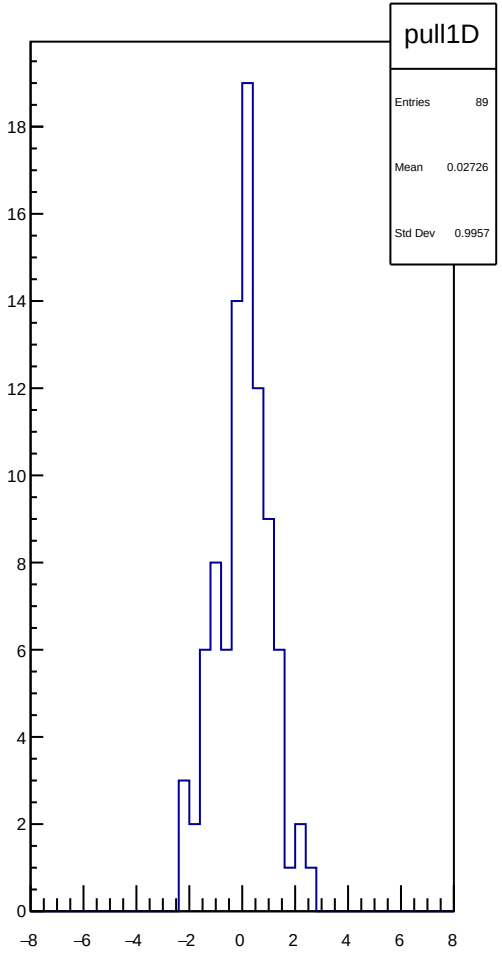

pull1D
Entries 89
Mean 0.02726
Std Dev 0.9957
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

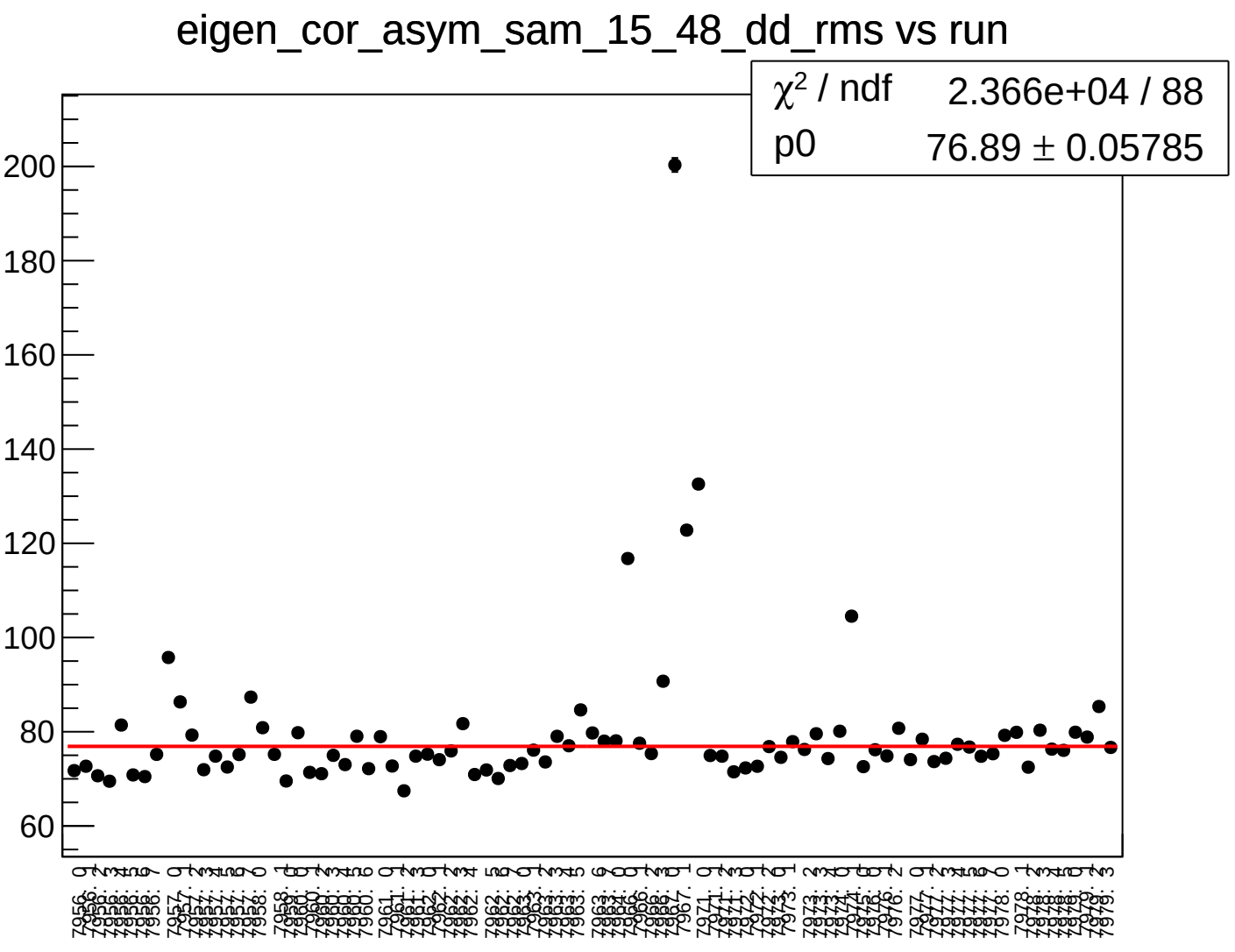

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.366e+04 / 88
p0 76.89 ± 0.05785
200
180
160
140
120
100
80
60

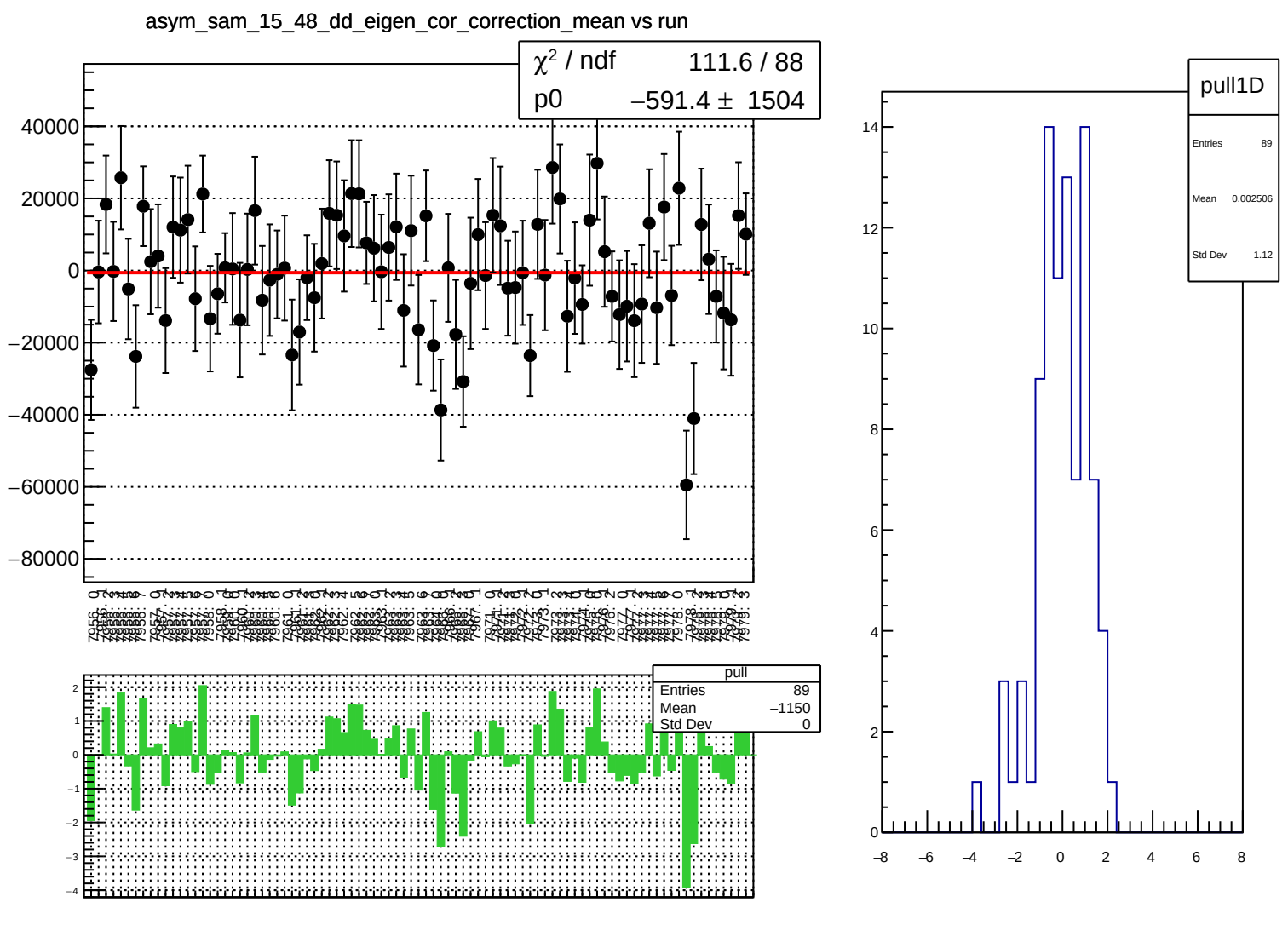

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 111.6 / 88
p0 −591.4 ± 1504
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −1150
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean 0.002506
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

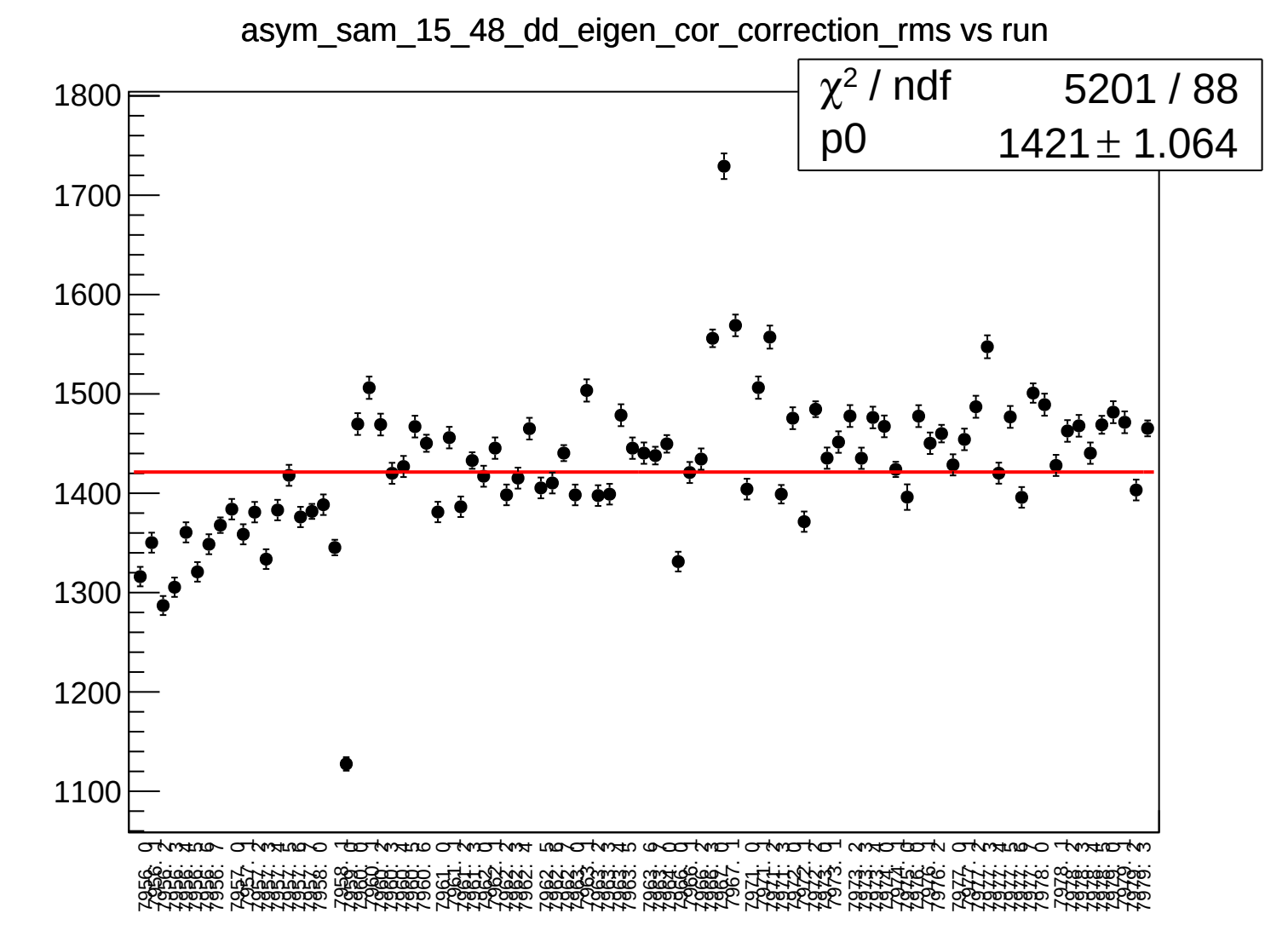

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 5201 / 88
p0 1421 ± 1.064
1800
1700
1600
1500
1400
1300
1200
1100

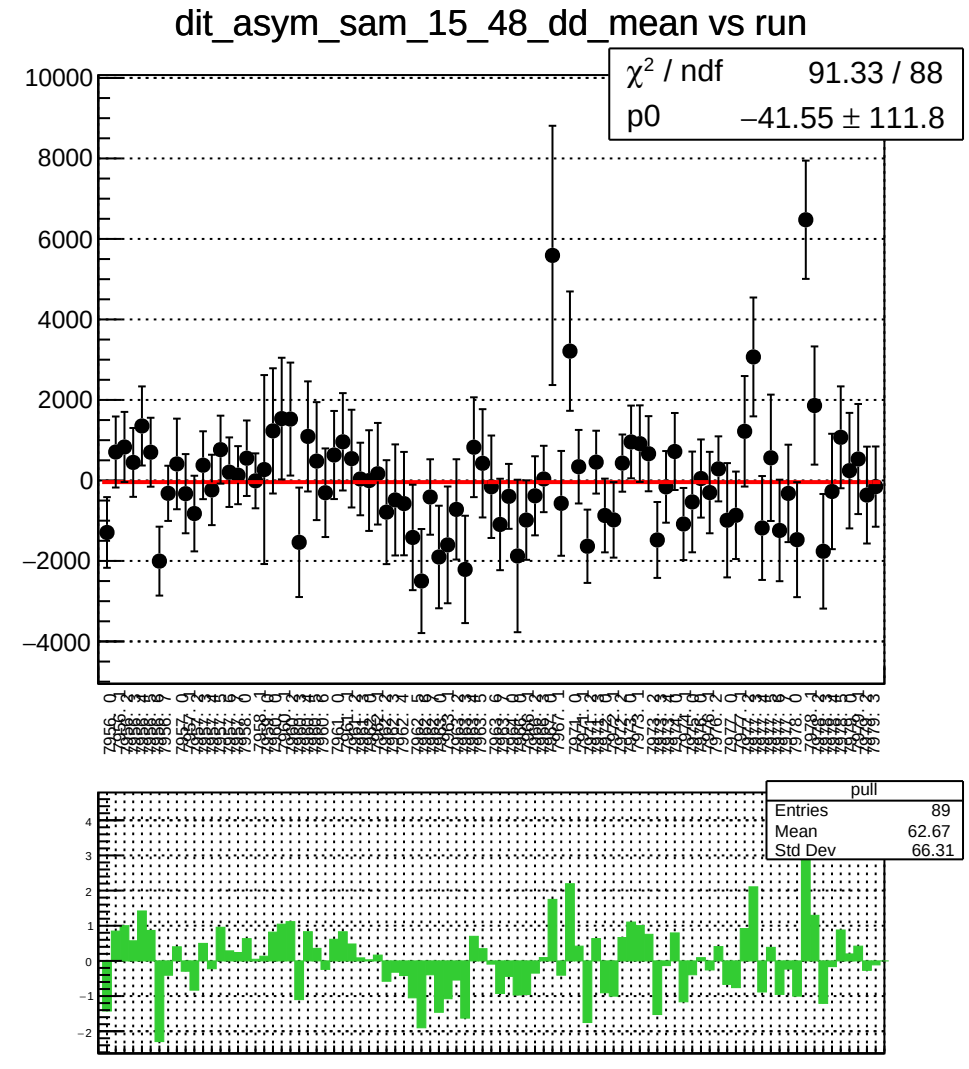

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 88.3 / 88
p0 −80.37 ± 81.81
8000
6000
4000
2000
0
−2000
pull
Entries 89
Mean −33.79
Std Dev 0
2
1
0
−1
−2

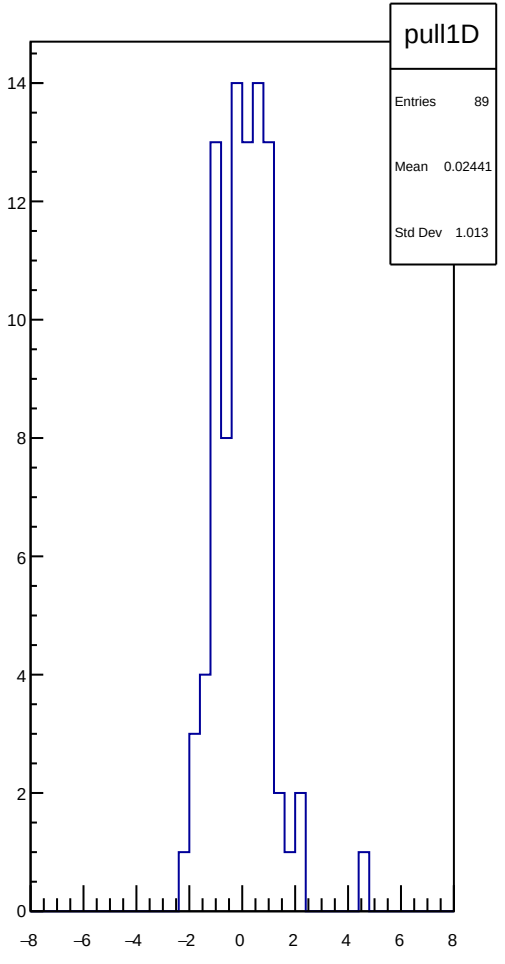

pull1D
Entries 89
Mean 0.02726
Std Dev 0.9957
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

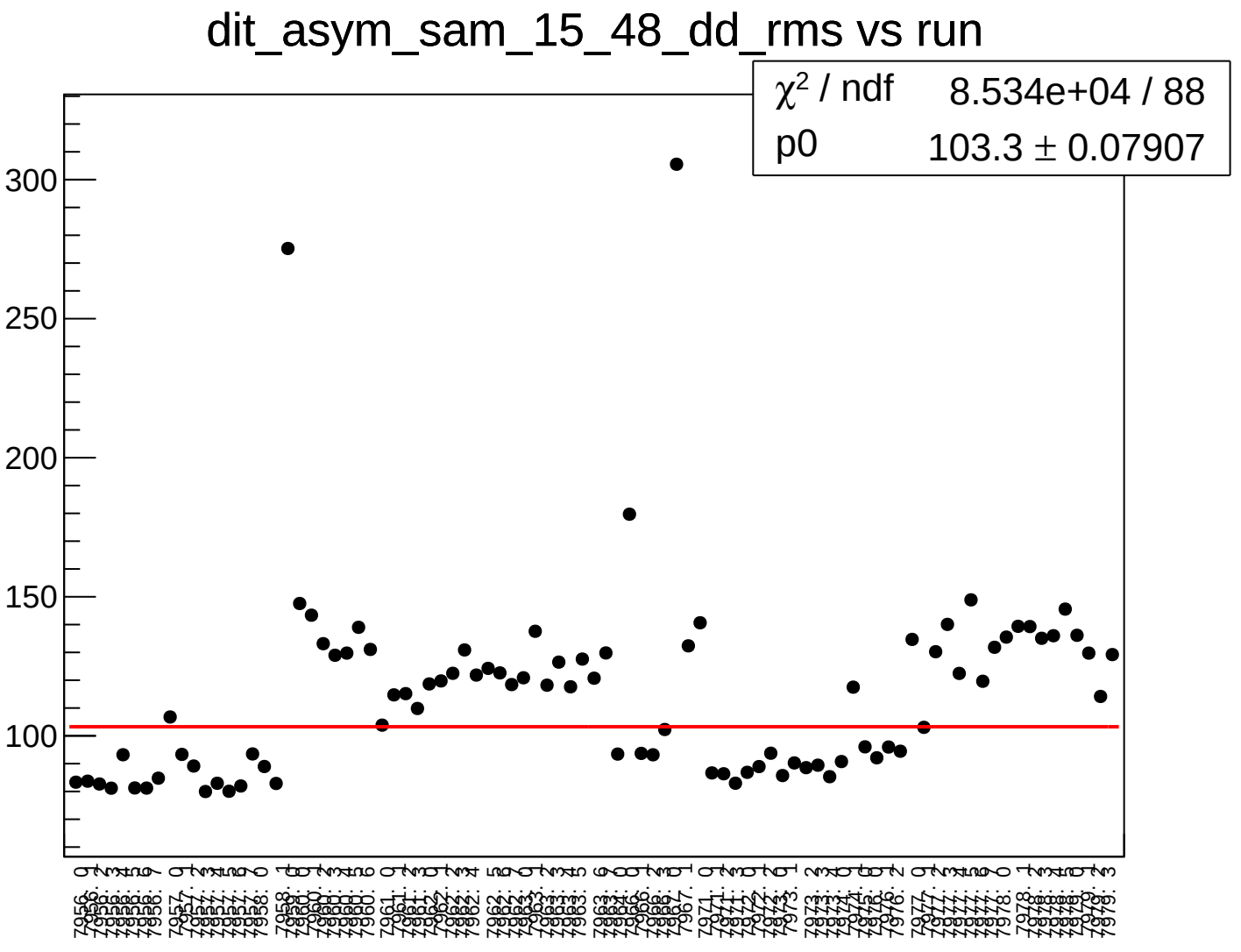

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.366e+04 / 88
p0 76.89 ± 0.05785
200
180
160
140
120
100
80
60

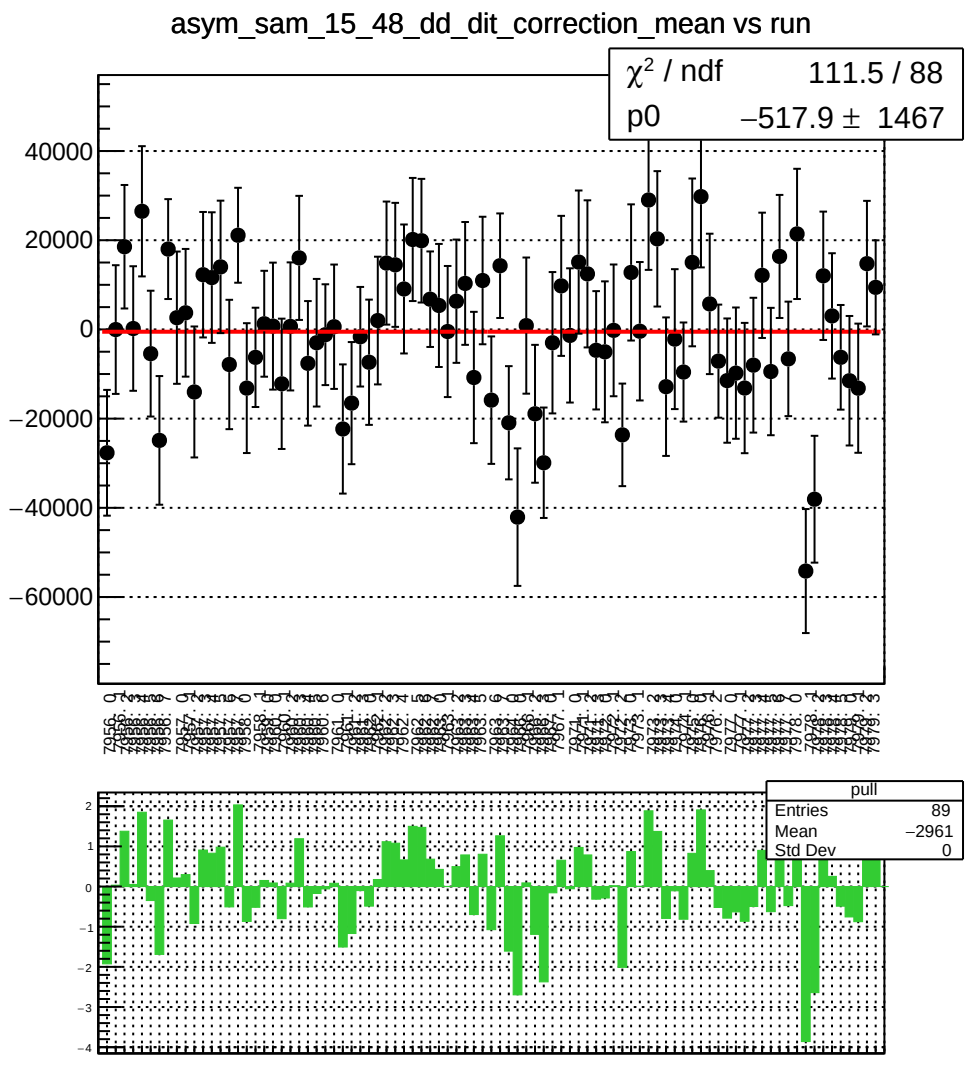

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 111.6 / 88
p0 −591.4 ± 1504
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −1150
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean 0.002506
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

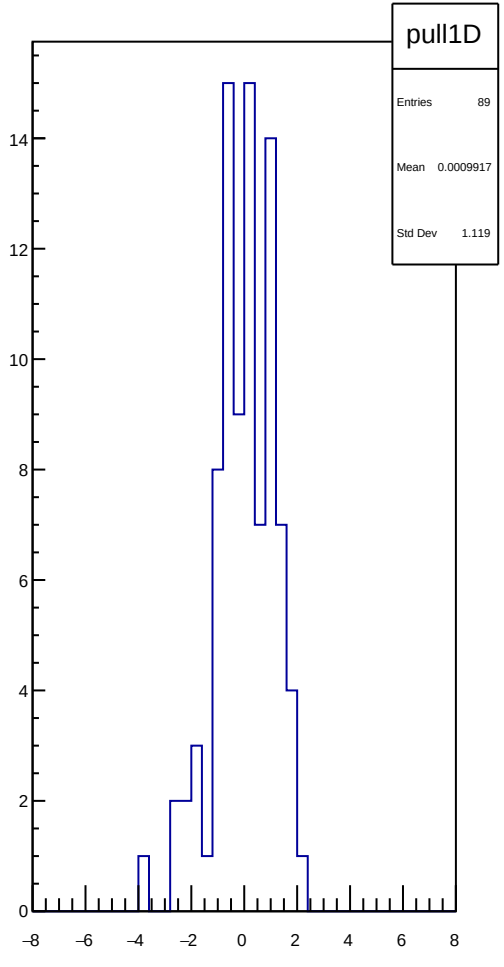

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5201 / 88
p0 1421 ± 1.064
1800
1700
1600
1500
1400
1300
1200
1100

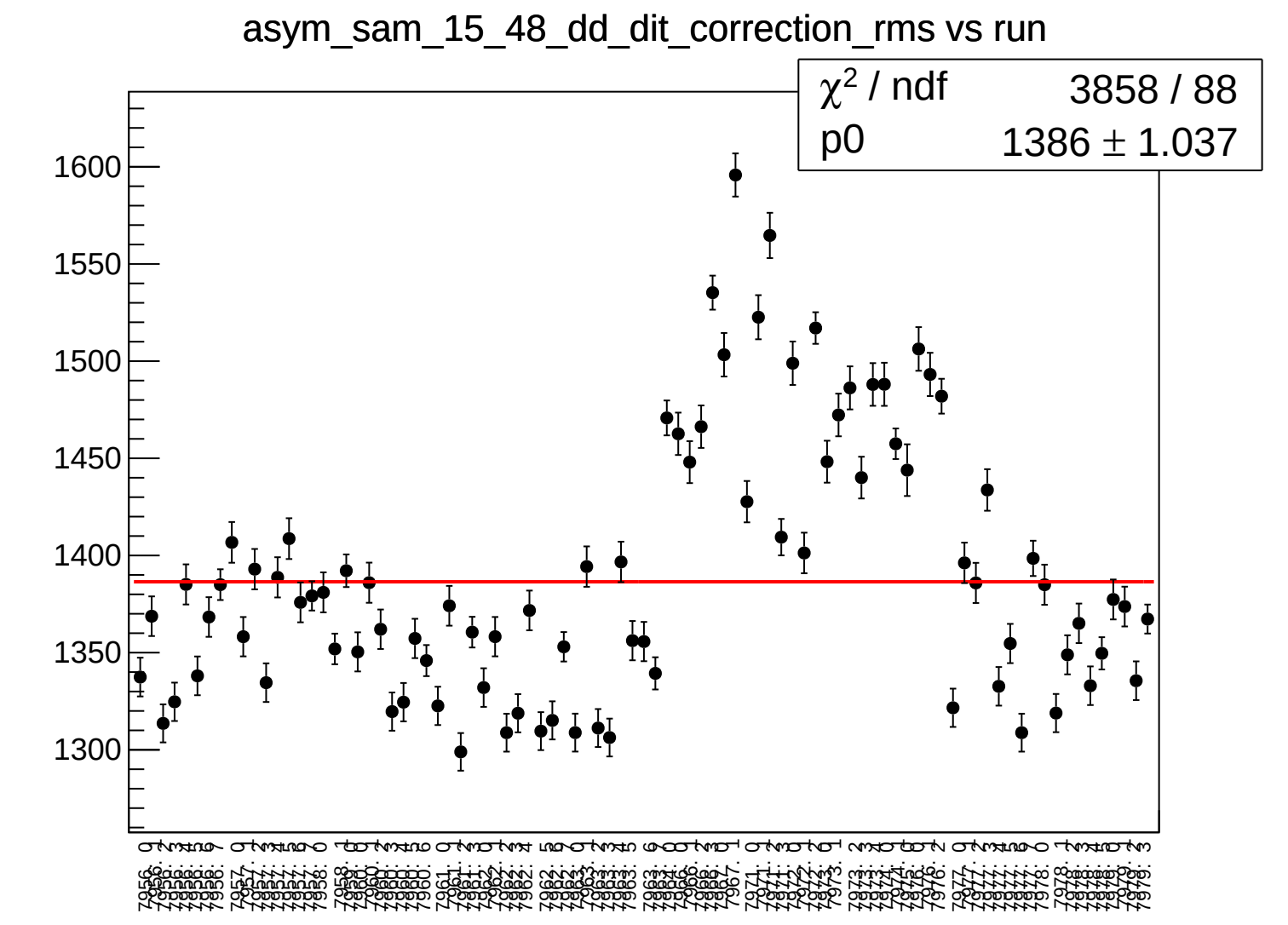

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 91.33 / 88
p0 −41.55 ± 111.8
pull
Entries 89
Mean 62.67
Std Dev 66.31

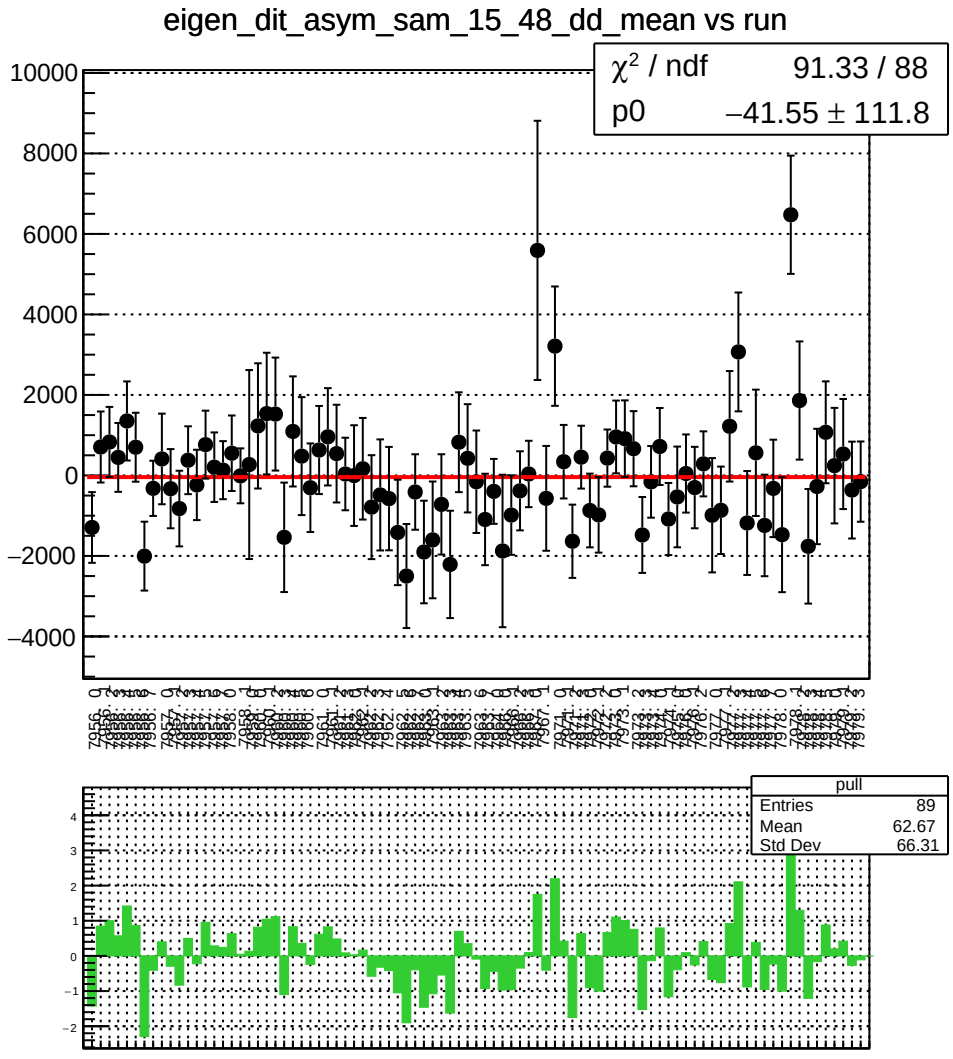

pull1D
Entries 89
Mean 0.02441
Std Dev 1.013

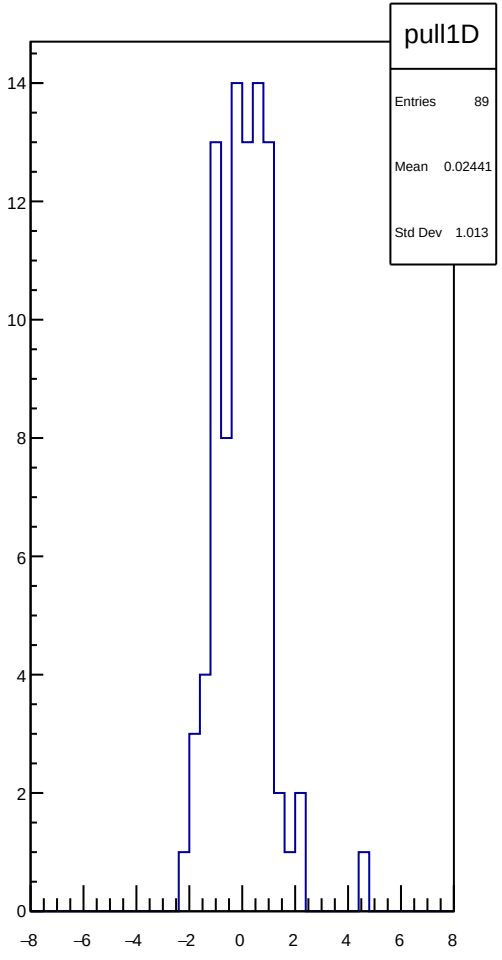

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 8.534e+04 / 88
p0 103.3 ± 0.07907
300
250
200
150
100

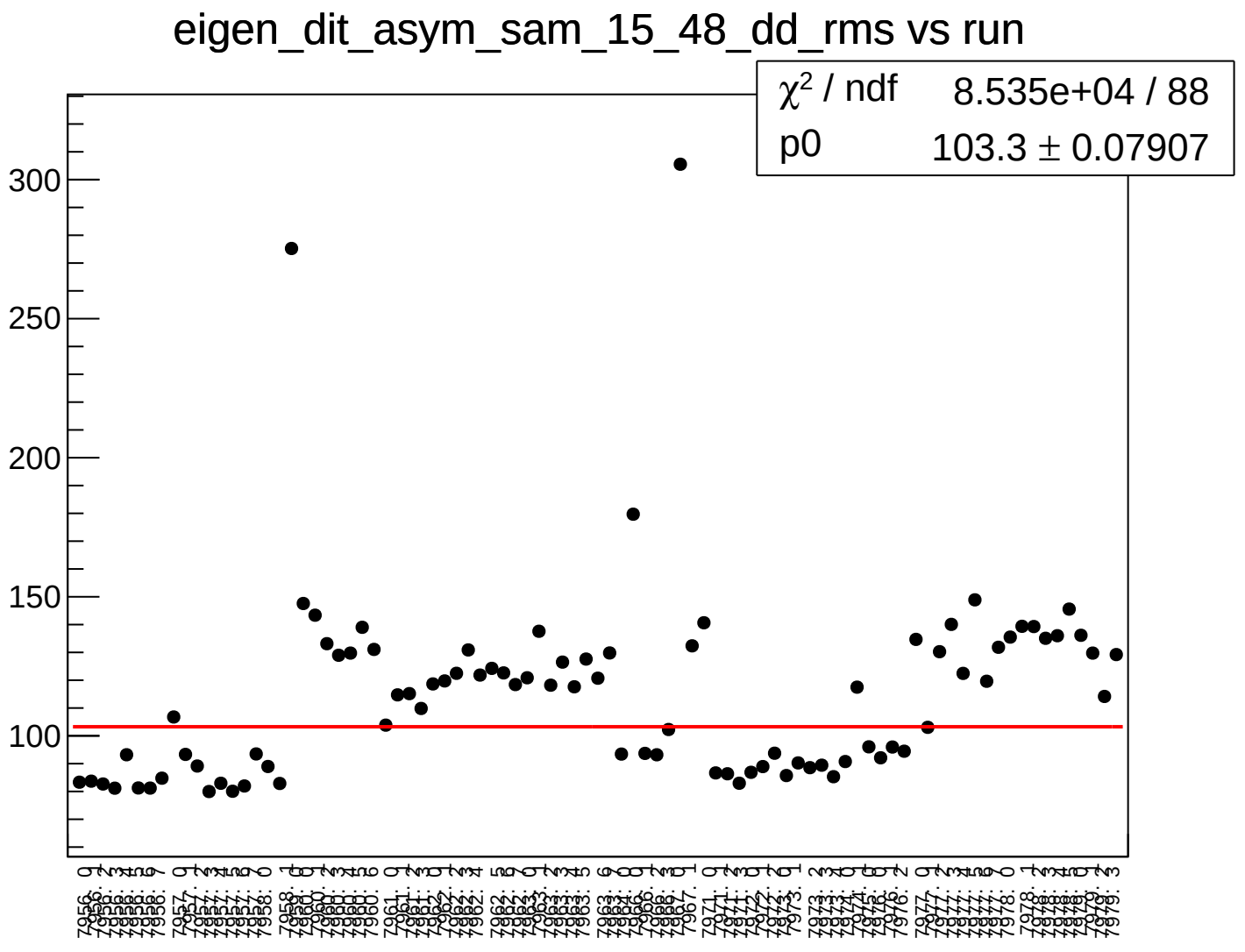

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 111.5 / 88
p0 −517.9 ± 1467
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −2961
Std Dev 0
2
1
0
−1
−2
−3
−4

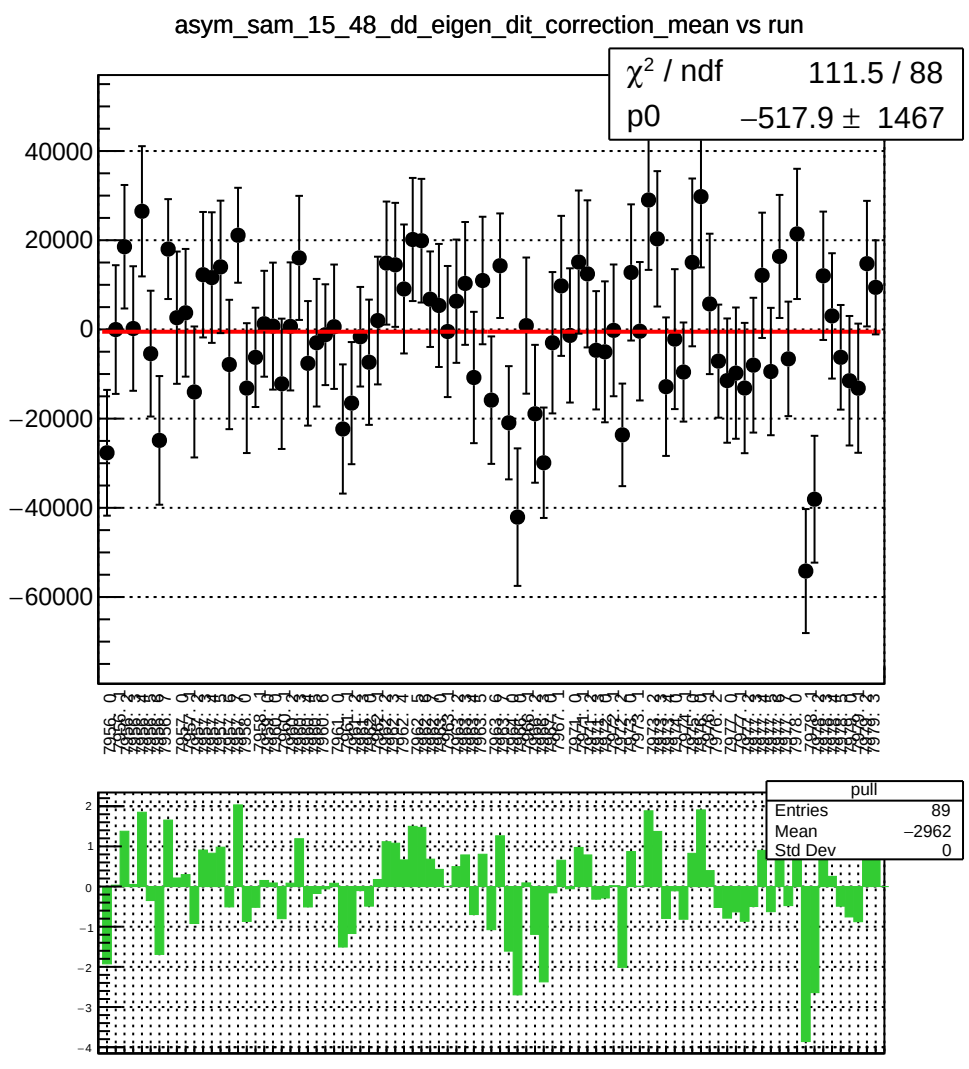

pull1D
Entries 89
Mean 0.0009917
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

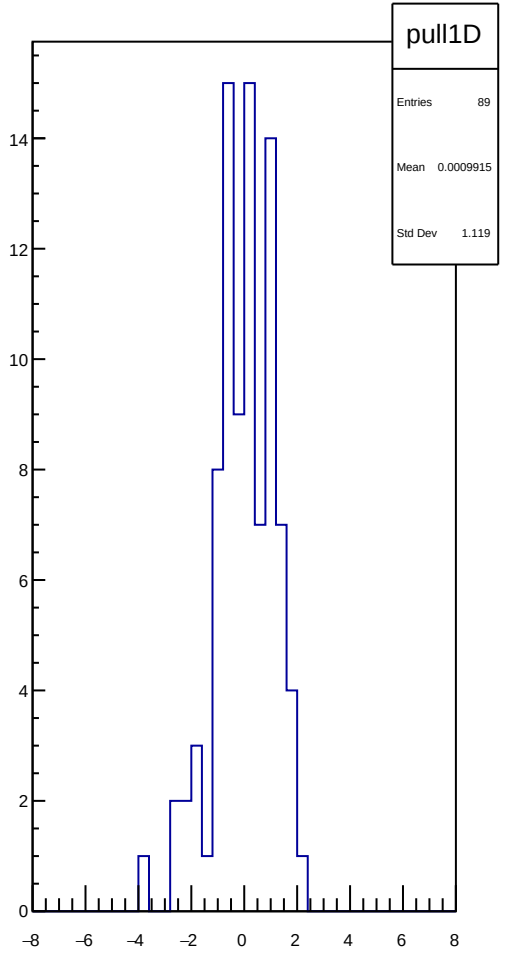

asym_sam_15_48_dd_dit_correction_rms vs run
$\chi^2$ / ndf 3858 / 88
p0 1386 ± 1.037
1600
1550
1500
1450
1400
1350
1300

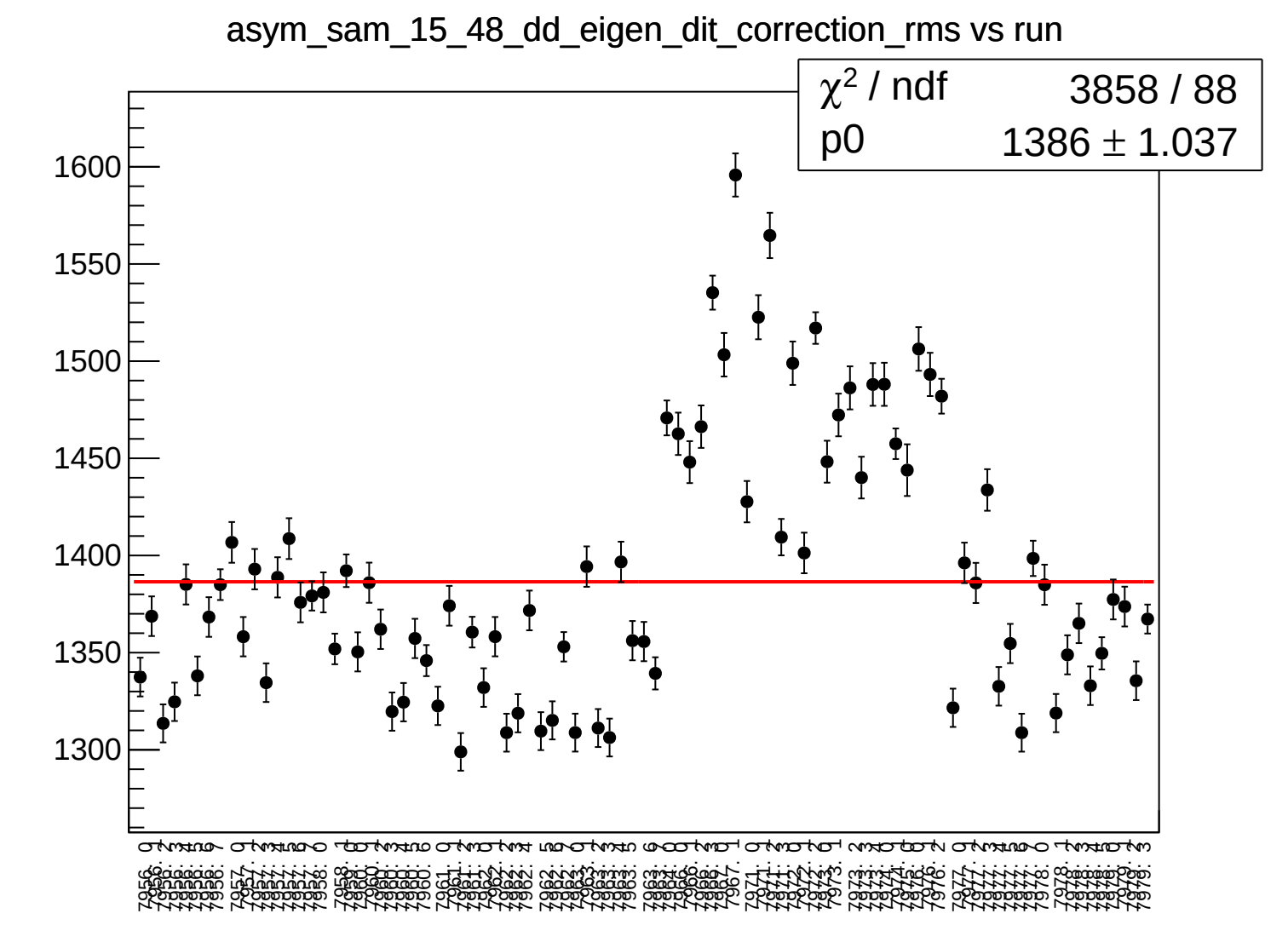

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 91.33 / 88
p0 −41.55 ± 111.8
pull
Entries 89
Mean 62.67
Std Dev 66.31

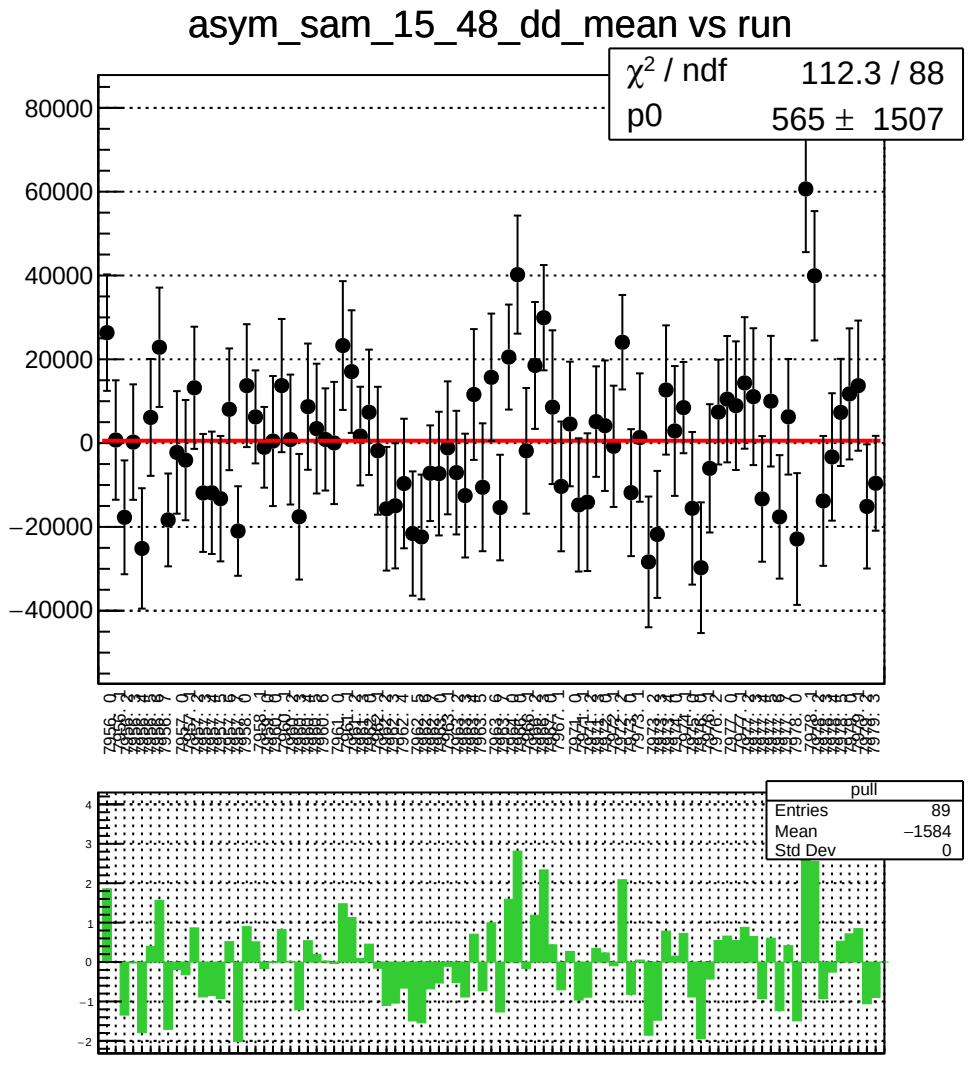

pull1D
Entries 89
Mean 0.02441
Std Dev 1.013

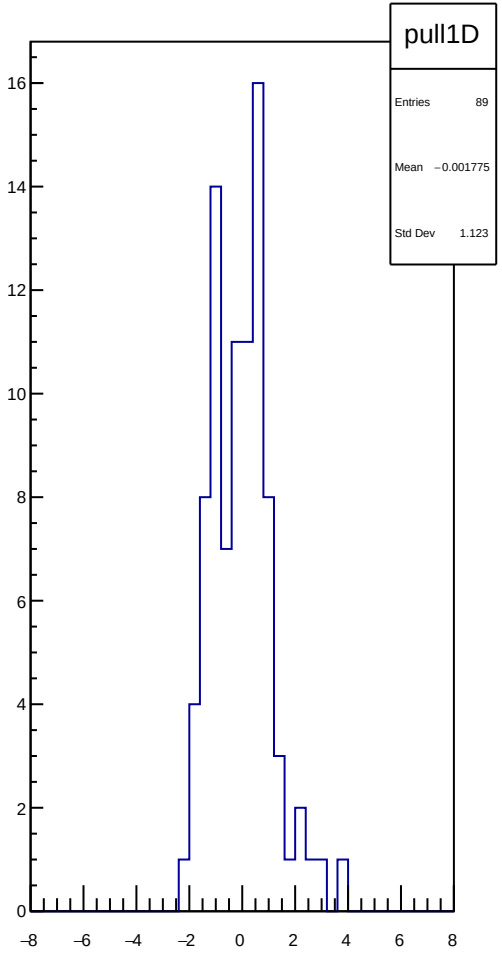

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 8.535e+04 / 88
p0 103.3 ± 0.07907
300
250
200
150
100

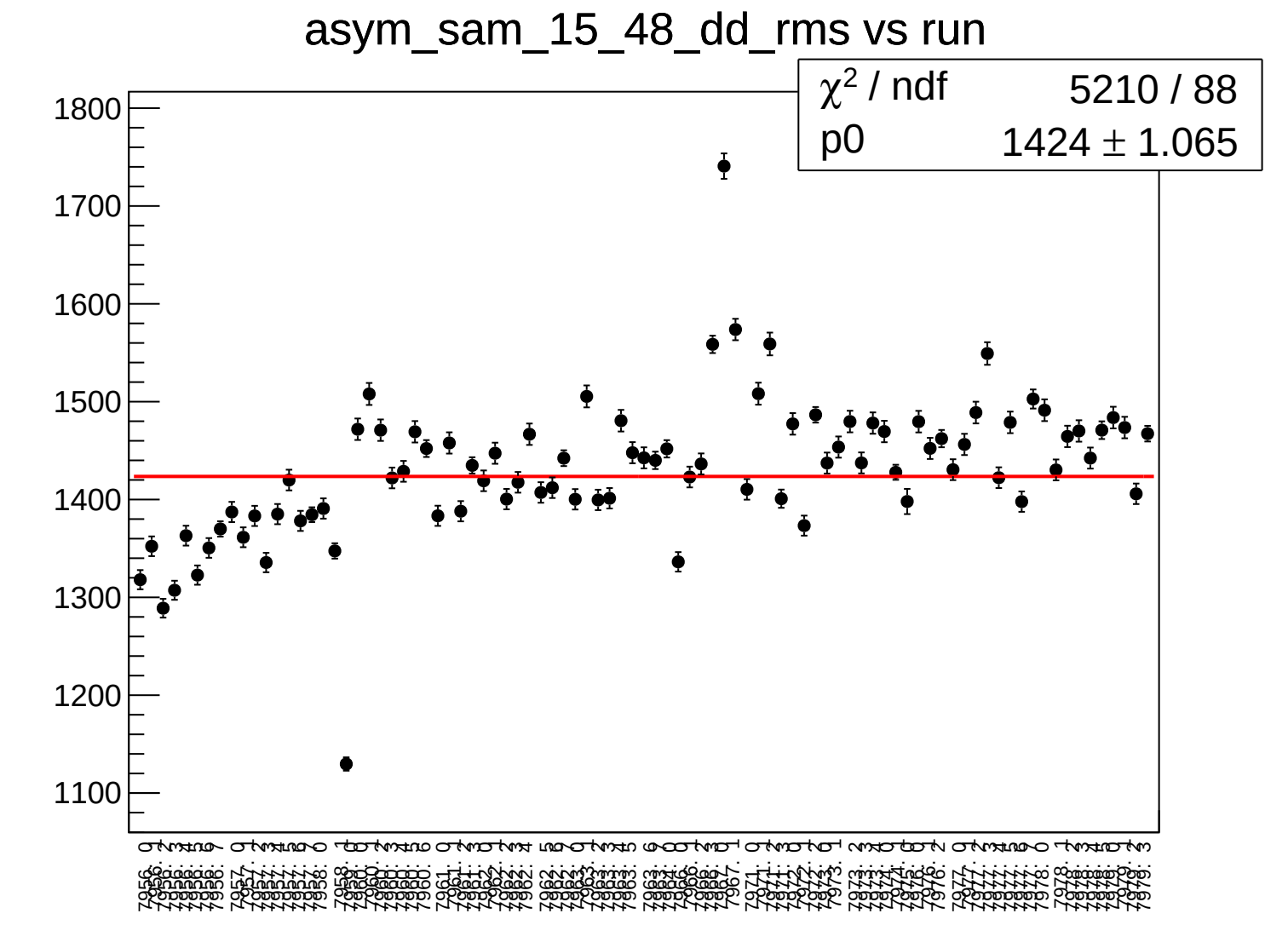

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 111.5 / 88
p0 −517.9 ± 1467
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −2962
Std Dev 0
2
1
0
−1
−2
−3
−4

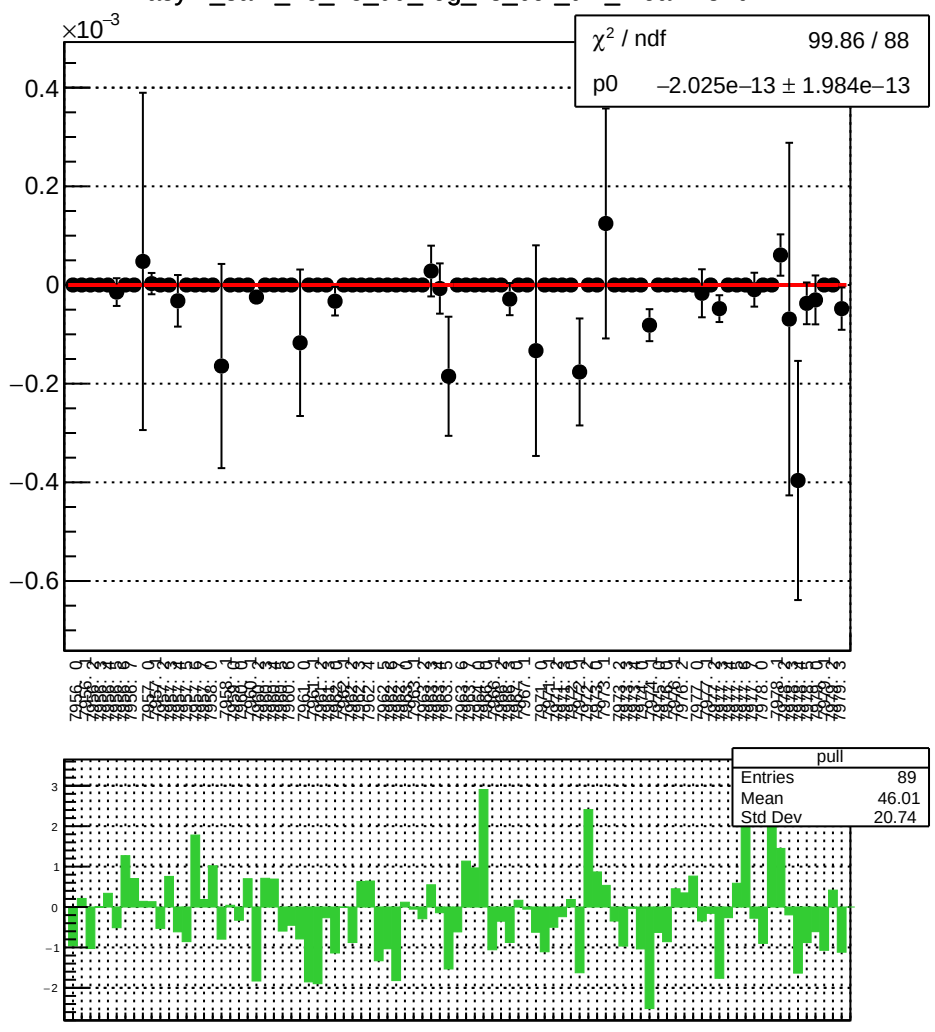

pull1D
Entries 89
Mean 0.0009915
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

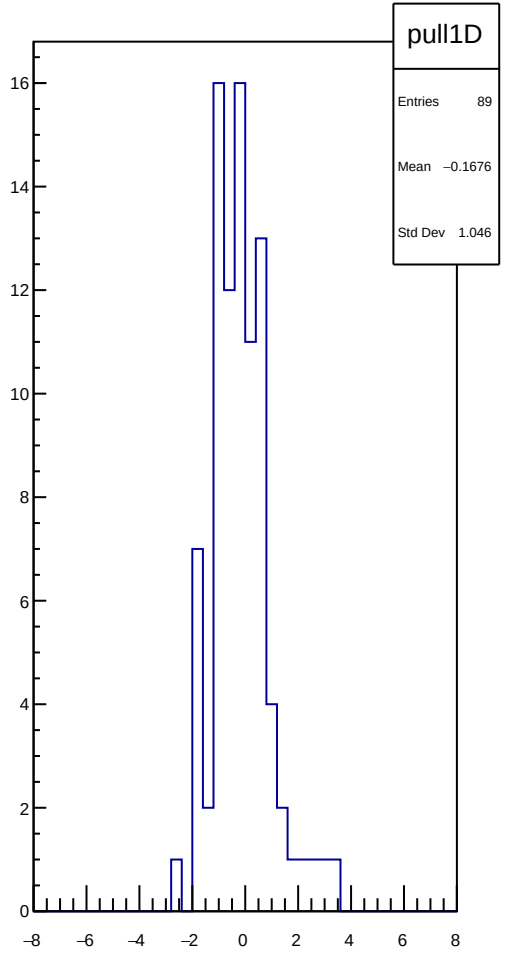

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3858 / 88
p0 1386 ± 1.037
1600
1550
1500
1450
1400
1350
1300

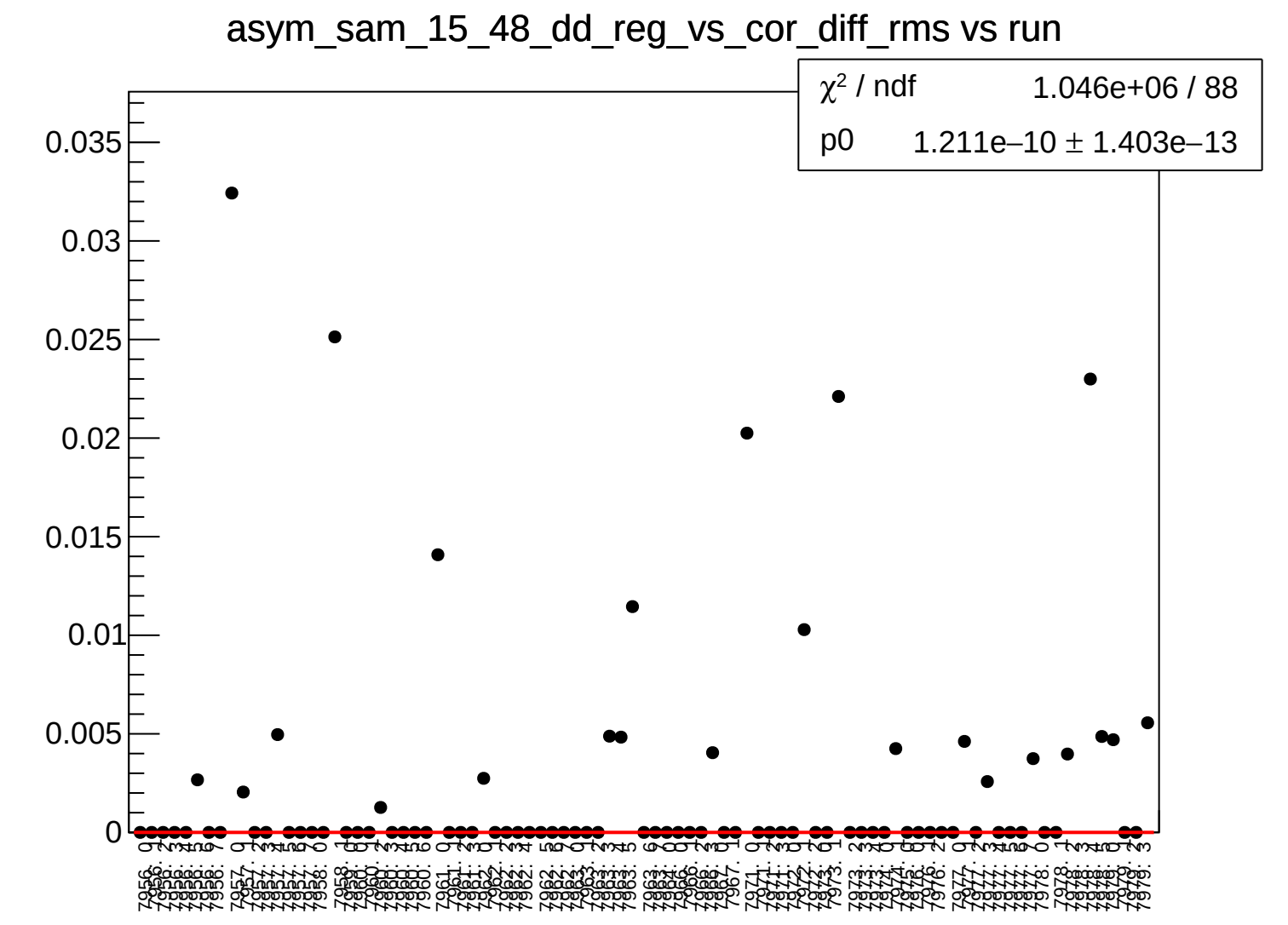

asym_sam_15_48_dd_mean vs run
χ² / ndf 112.3 / 88
p0 565 ± 1507
pull
Entries 89
Mean −1584
Std Dev 0

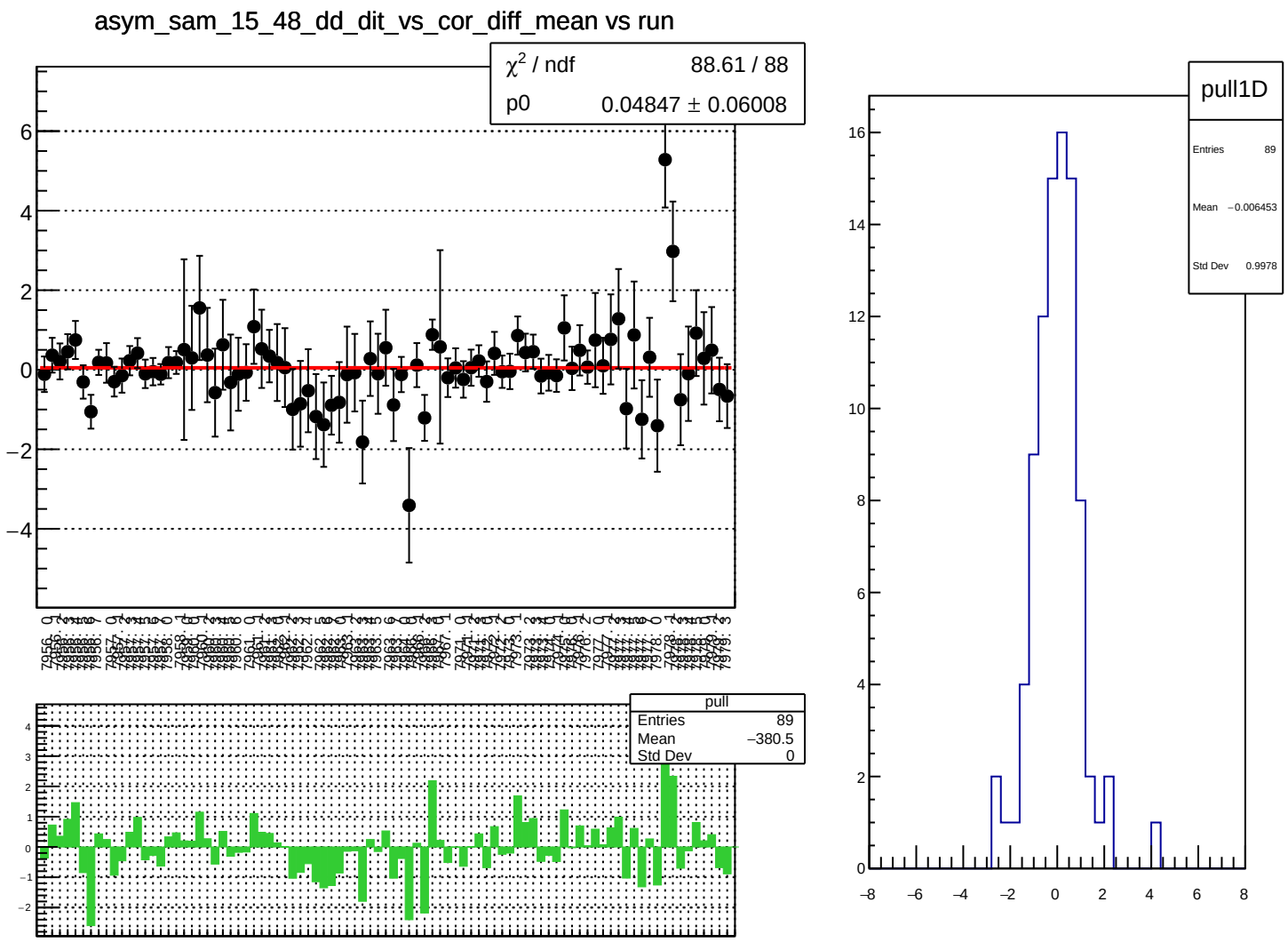

pull1D
Entries 89
Mean −0.001775
Std Dev 1.123

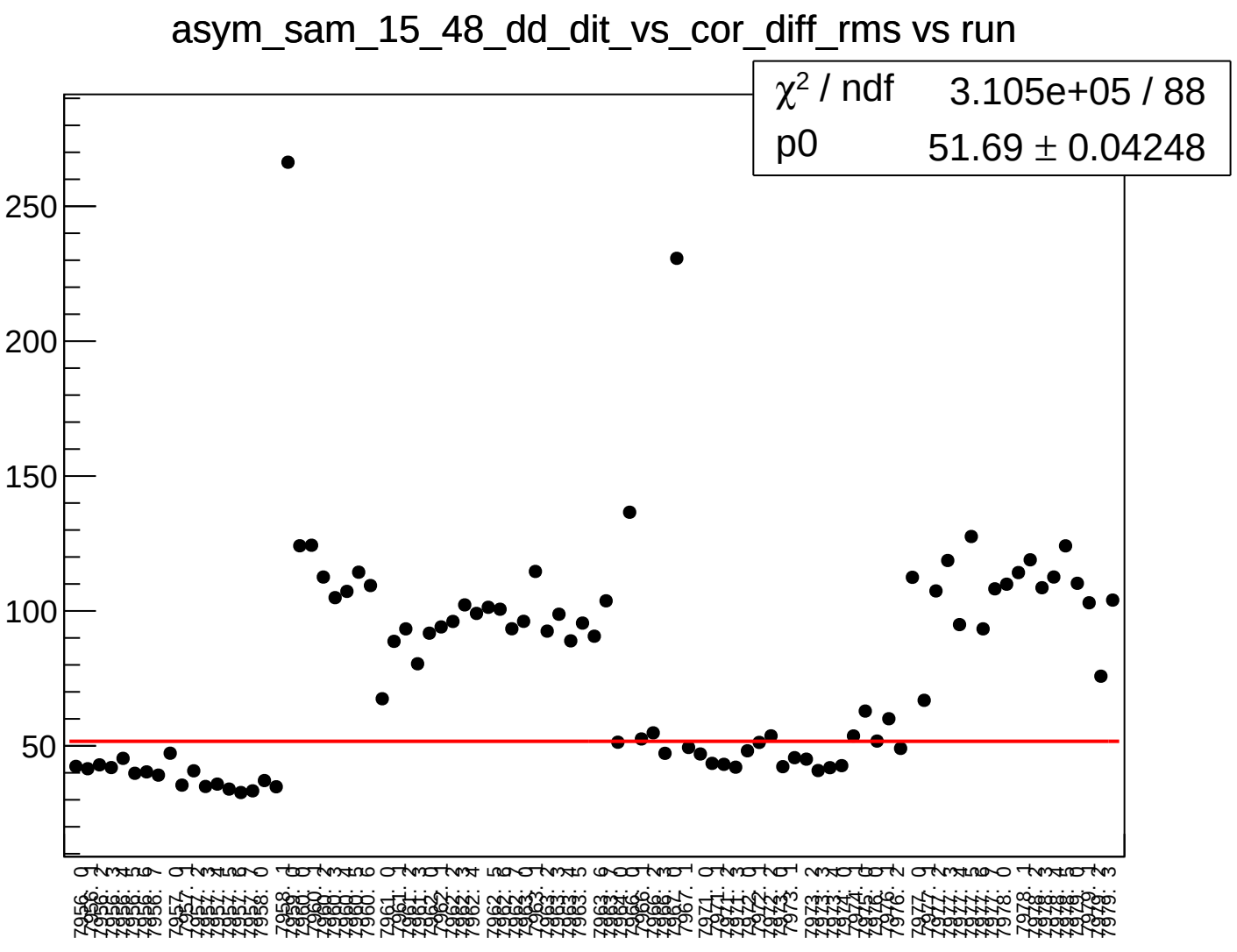

asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 5210 / 88
p0 1424 ± 1.065
1800
1700
1600
1500
1400
1300
1200
1100

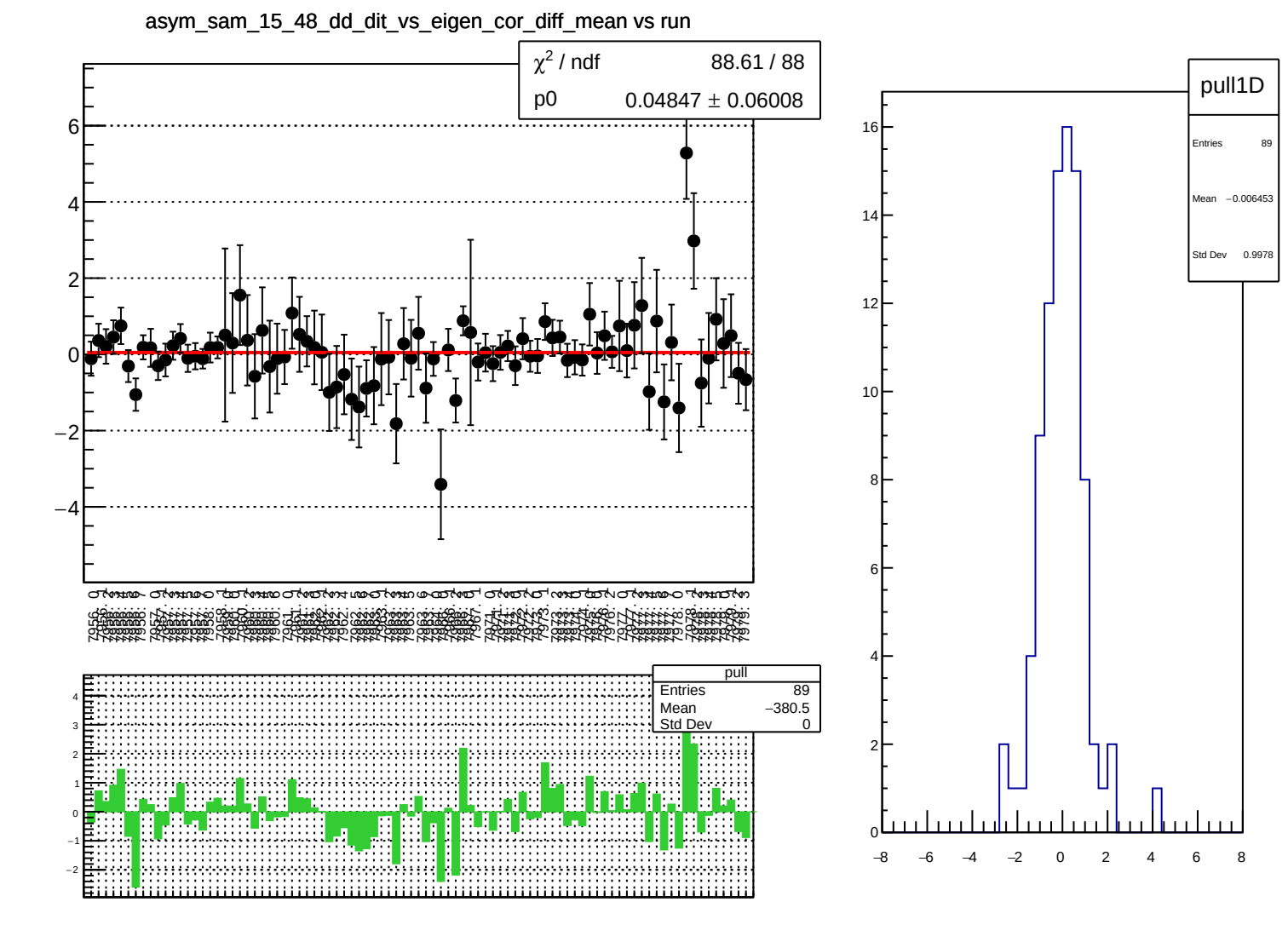

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 99.86 / 88
p0 −2.025e−13 ± 1.984e−13
pull
Entries 89
Mean 46.01
Std Dev 20.74

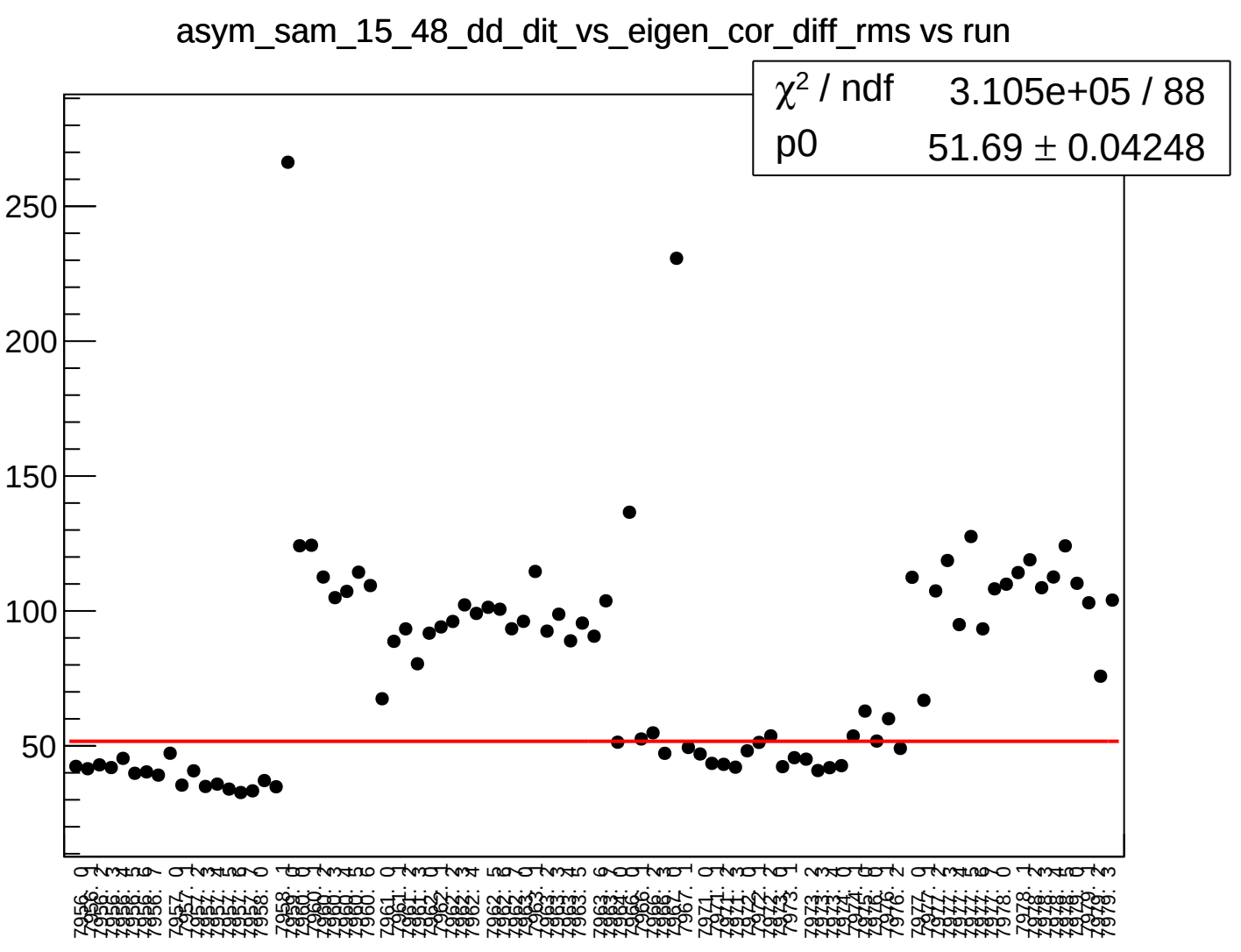

pull1D
Entries 89
Mean −0.1676
Std Dev 1.046

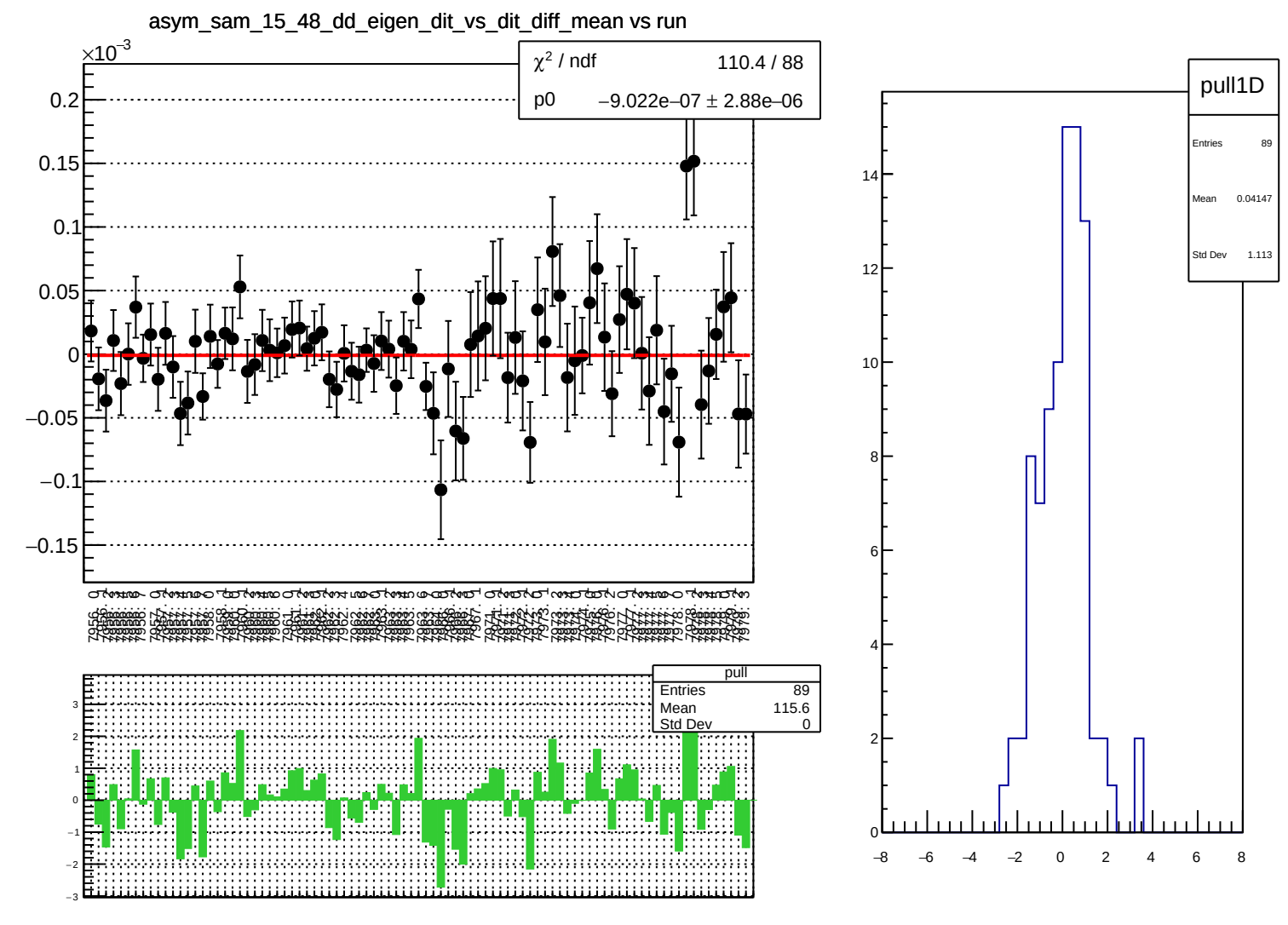

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.046e+06 / 88
p0 1.211e−10 ± 1.403e−13
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

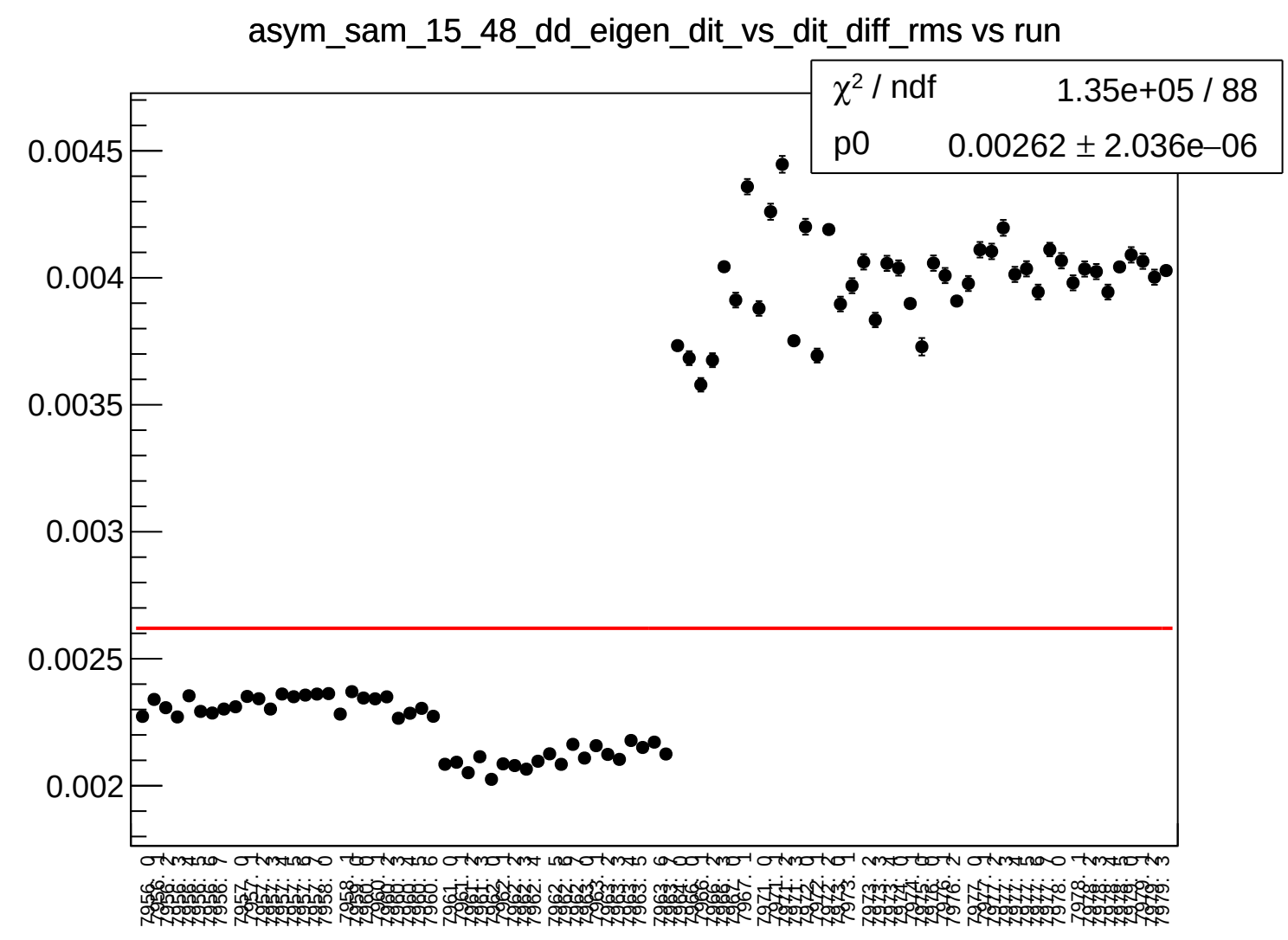

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.61 / 88
p0 0.04847 ± 0.06008
pull
Entries 89
Mean −380.5
Std Dev 0
pull1D
Entries 89
Mean −0.006453
Std Dev 0.9978

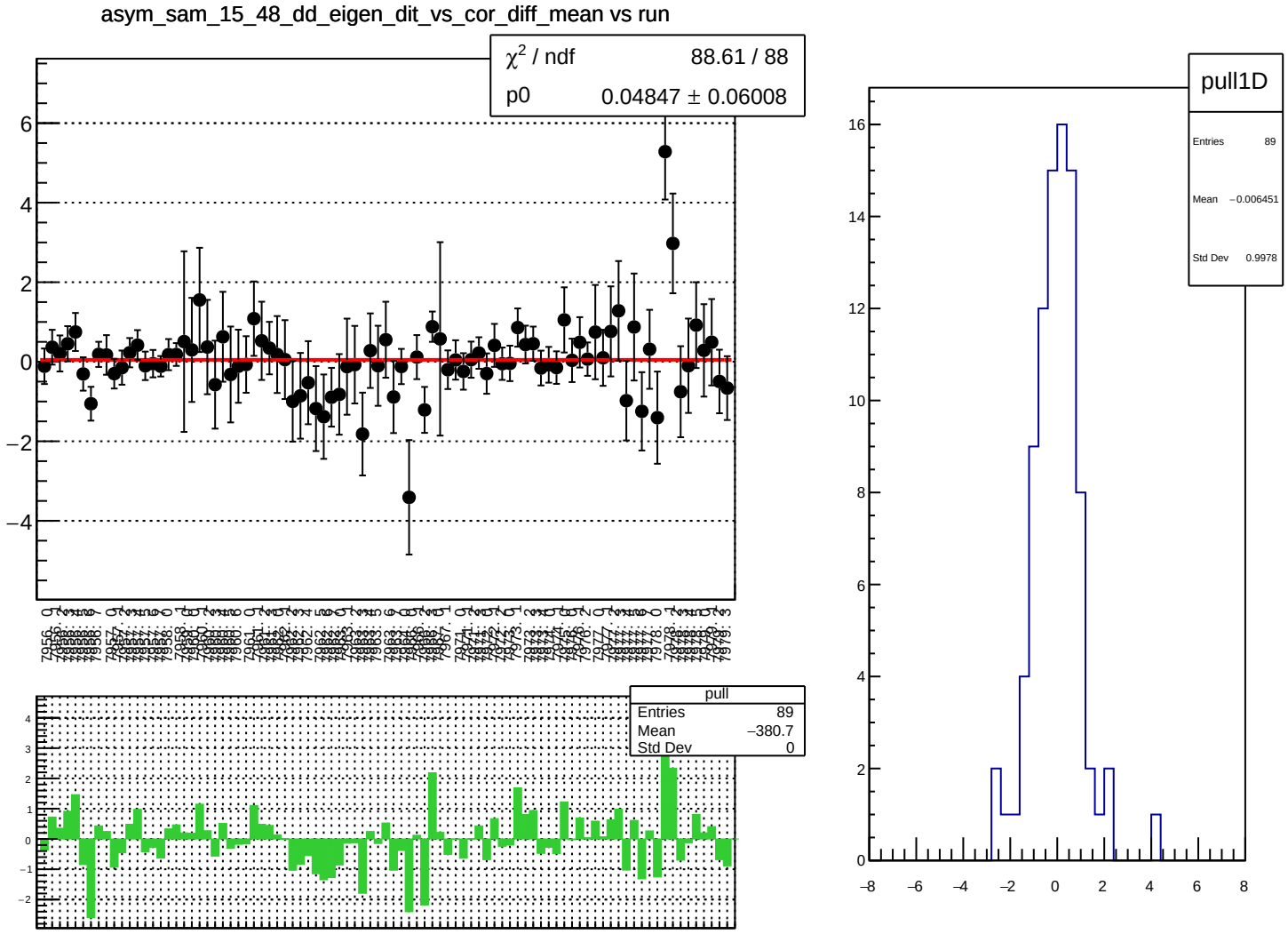

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.105e+05 / 88
p0 51.69 ± 0.04248
250
200
150
100
50

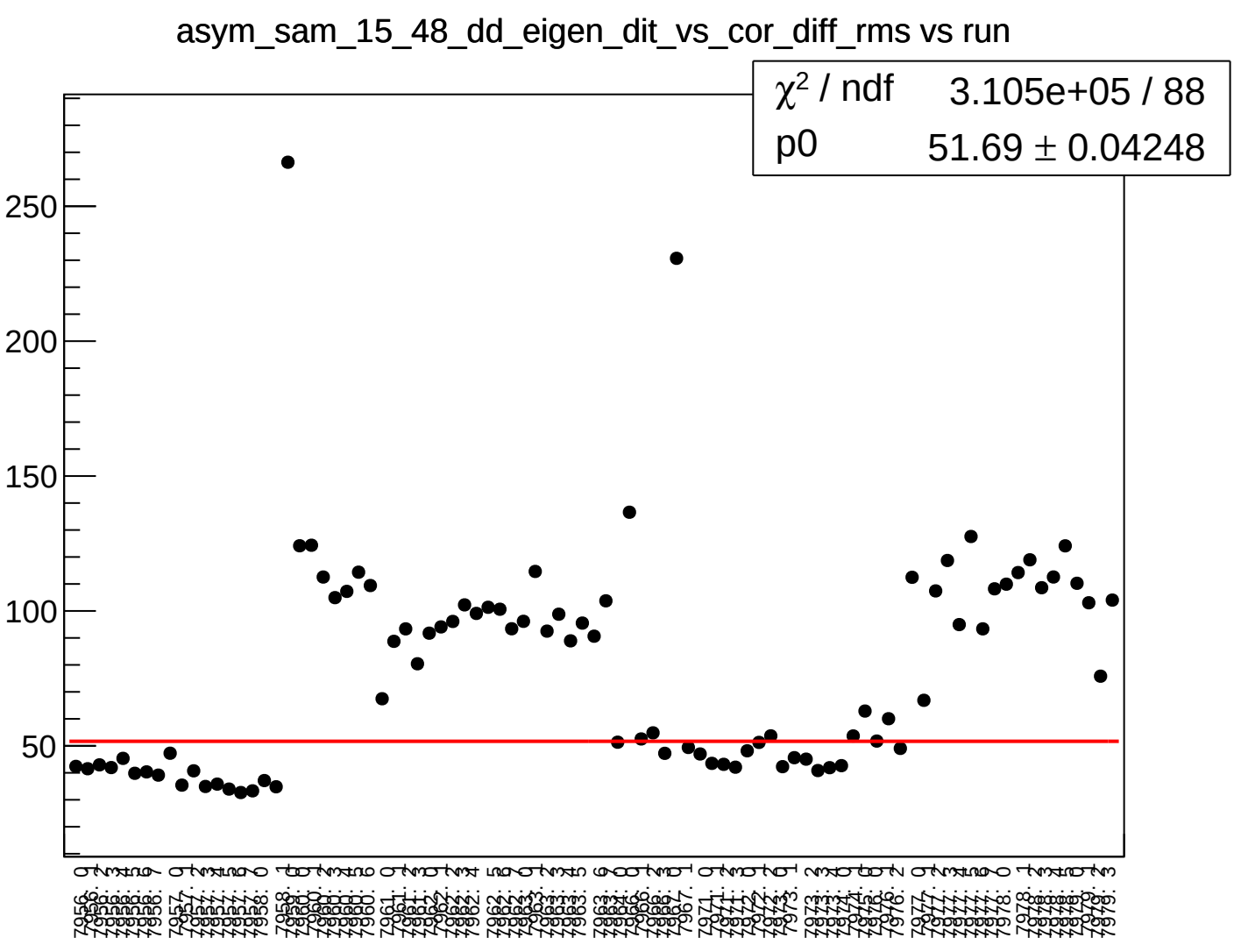

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.61 / 88
p0 0.04847 ± 0.06008
pull
Entries 89
Mean −380.5
Std Dev 0
pull1D
Entries 89
Mean −0.006453
Std Dev 0.9978

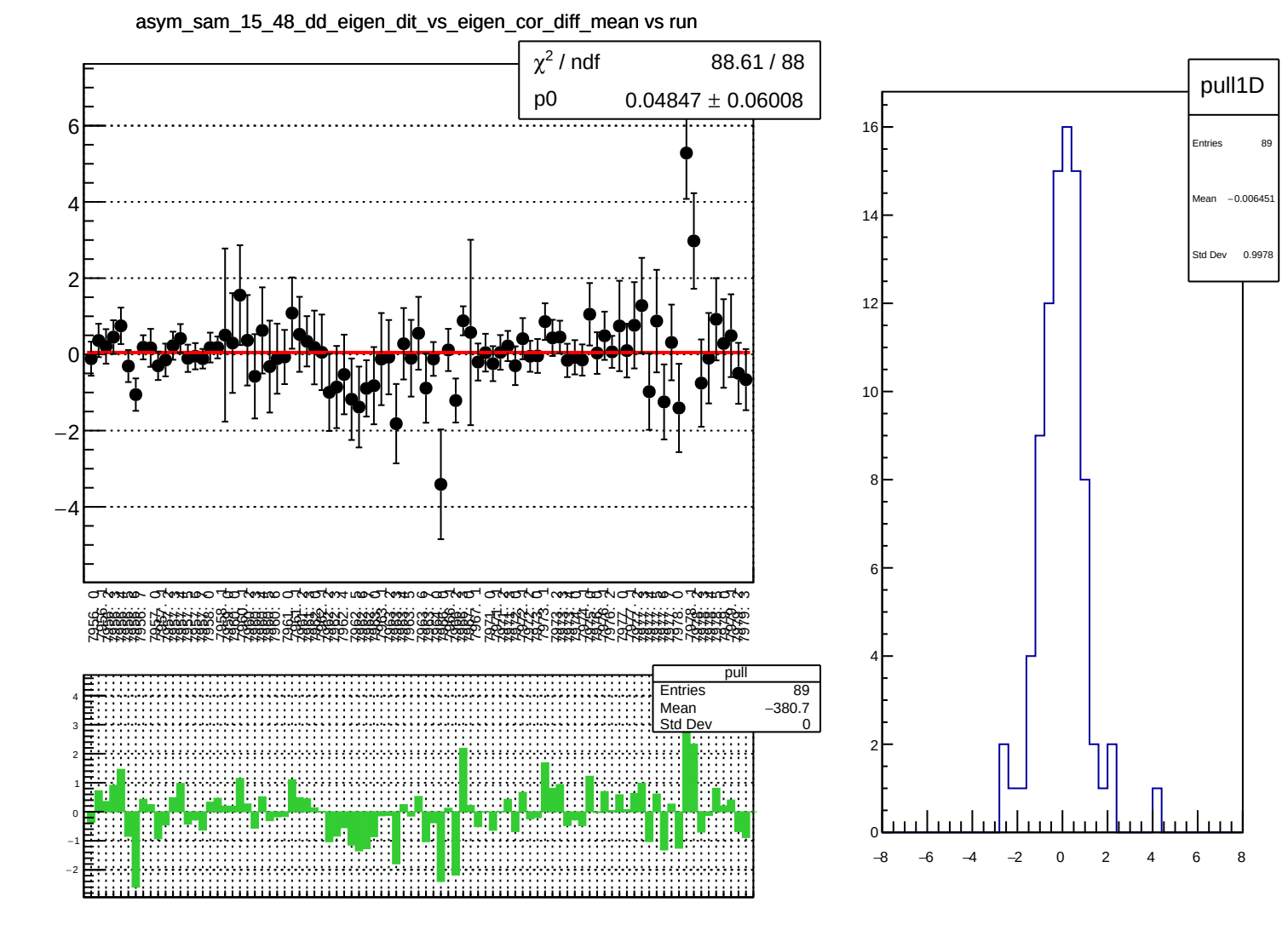

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.105e+05 / 88
p0 51.69 ± 0.04248
250
200
150
100
50

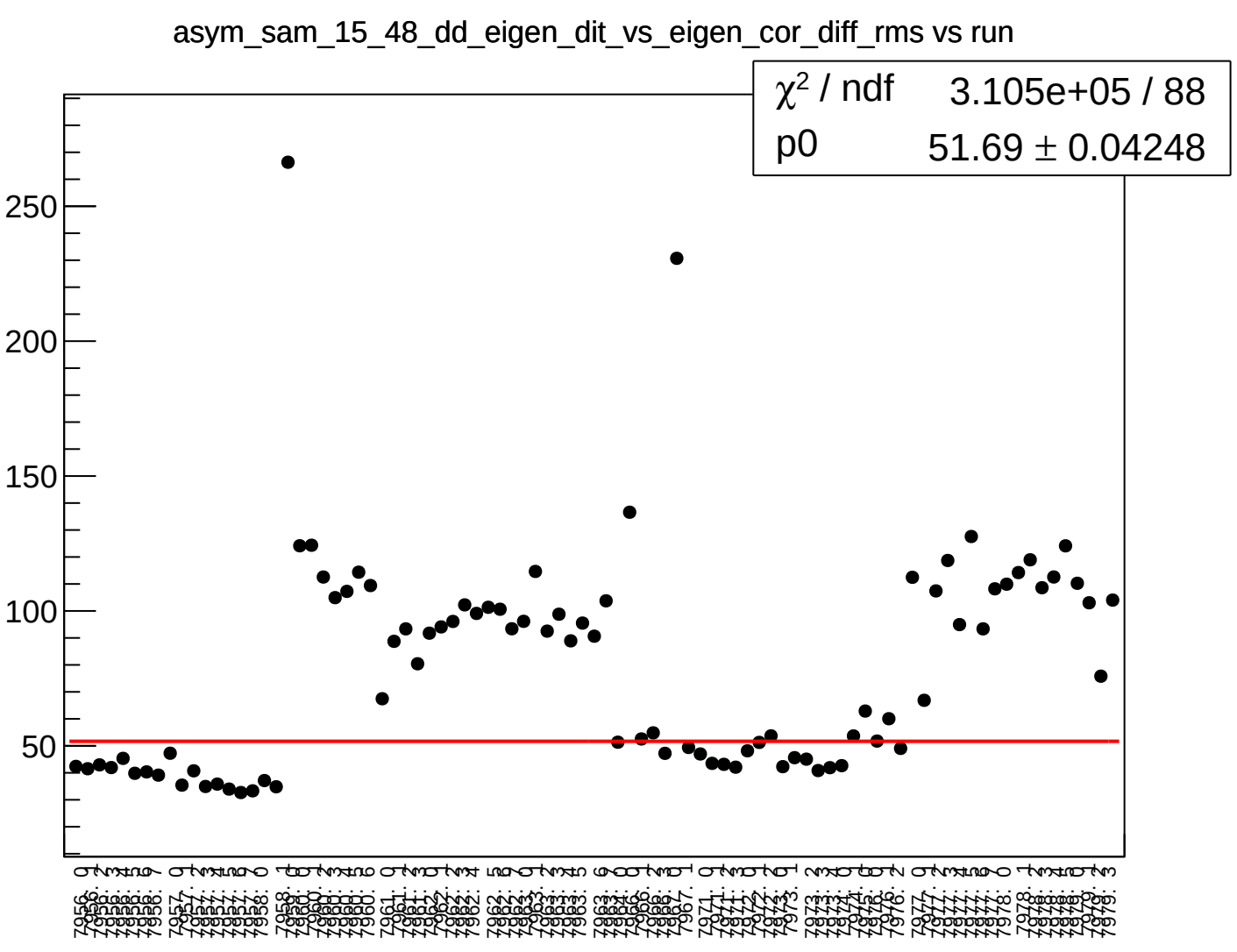

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.4 / 88
p0 −9.022e−07 ± 2.88e−06
pull
Entries 89
Mean 115.6
Std Dev 0
pull1D
Entries 89
Mean 0.04147
Std Dev 1.113

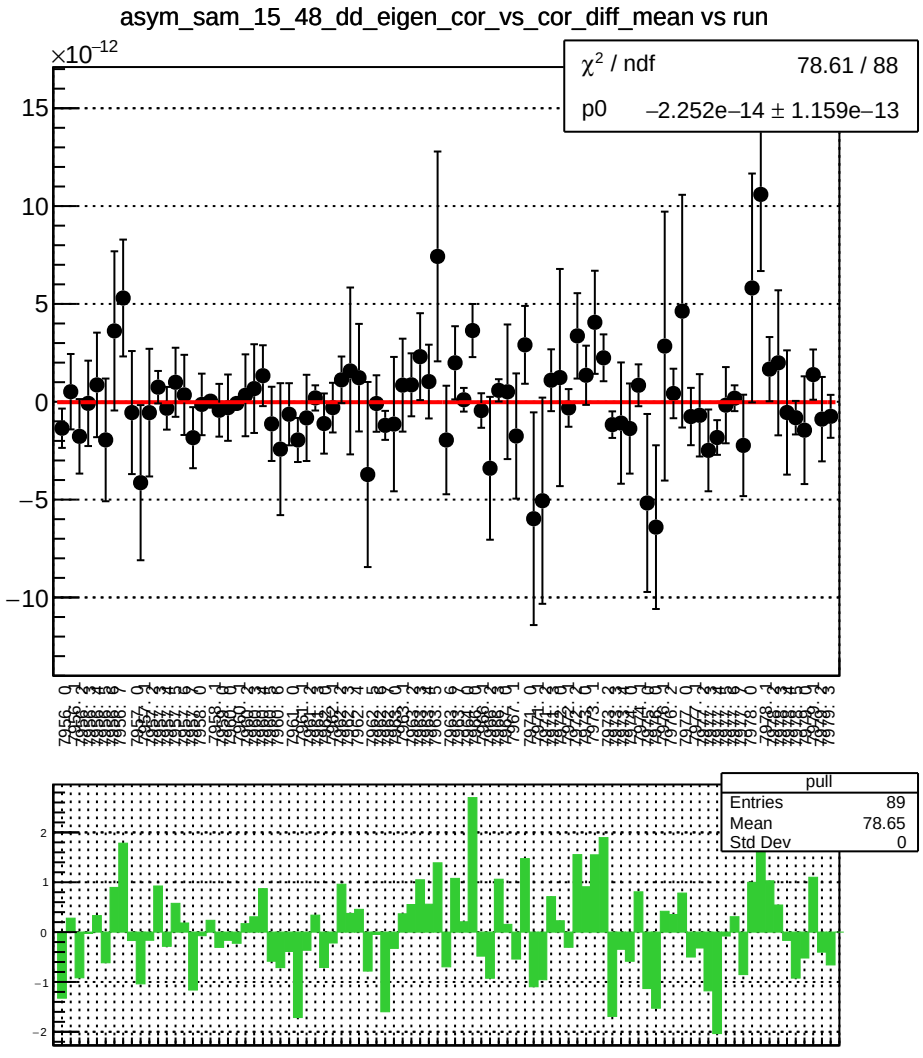

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.35e+05 / 88
p0 0.00262 ± 2.036e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

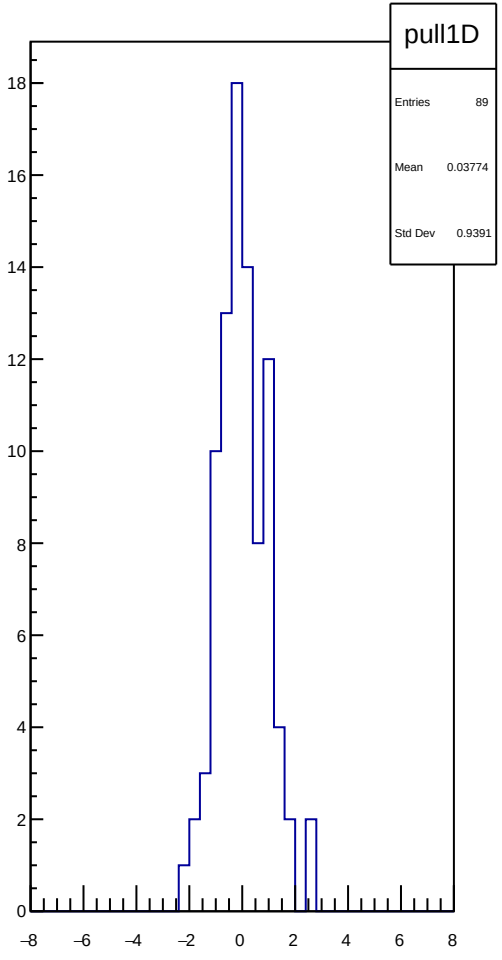

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.61 / 88
p0 0.04847 ± 0.06008
pull
Entries 89
Mean −380.7
Std Dev 0
pull1D
Entries 89
Mean −0.006451
Std Dev 0.9978

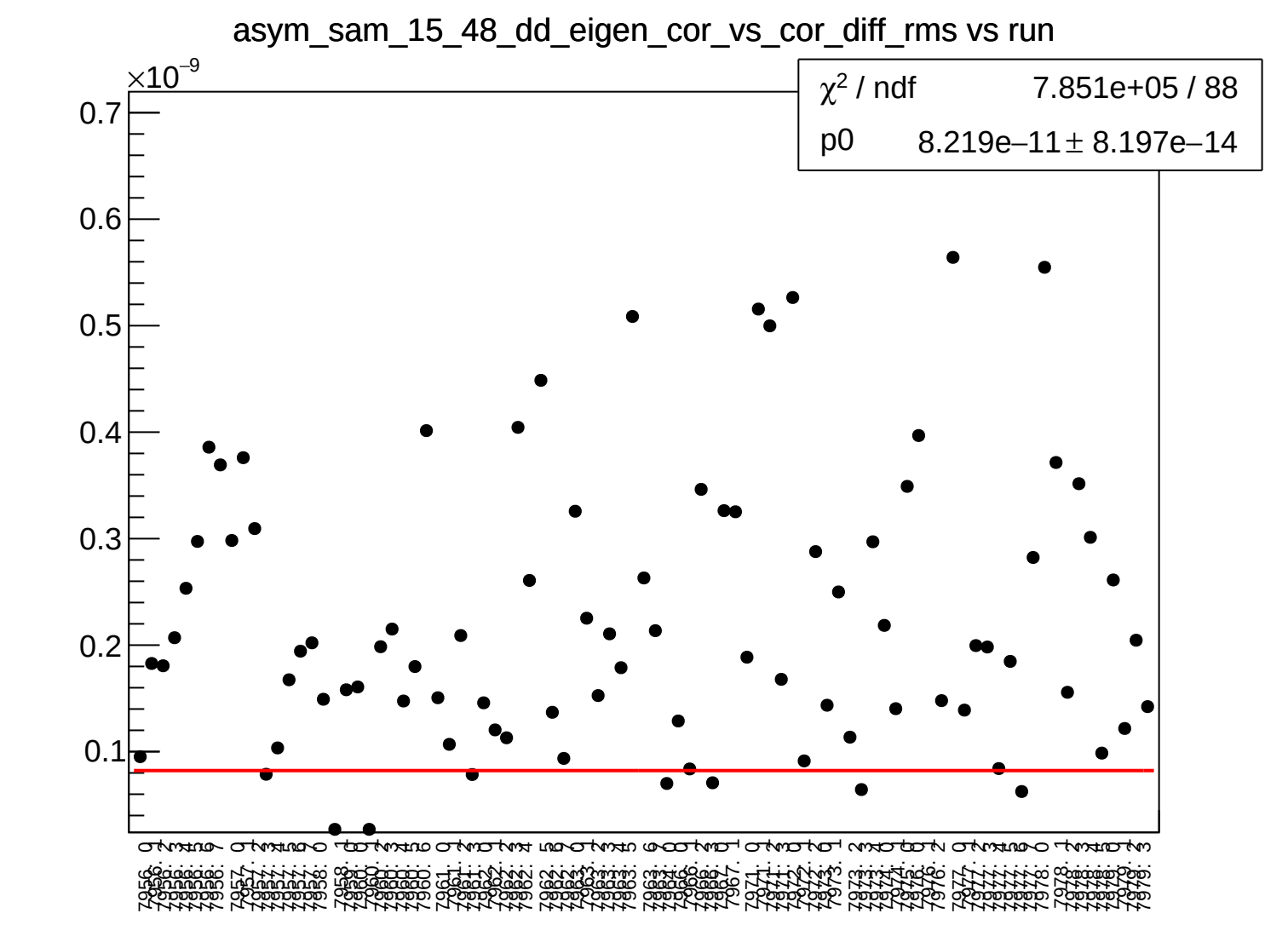

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.105e+05 / 88
p0 51.69 ± 0.04248
250
200
150
100
50

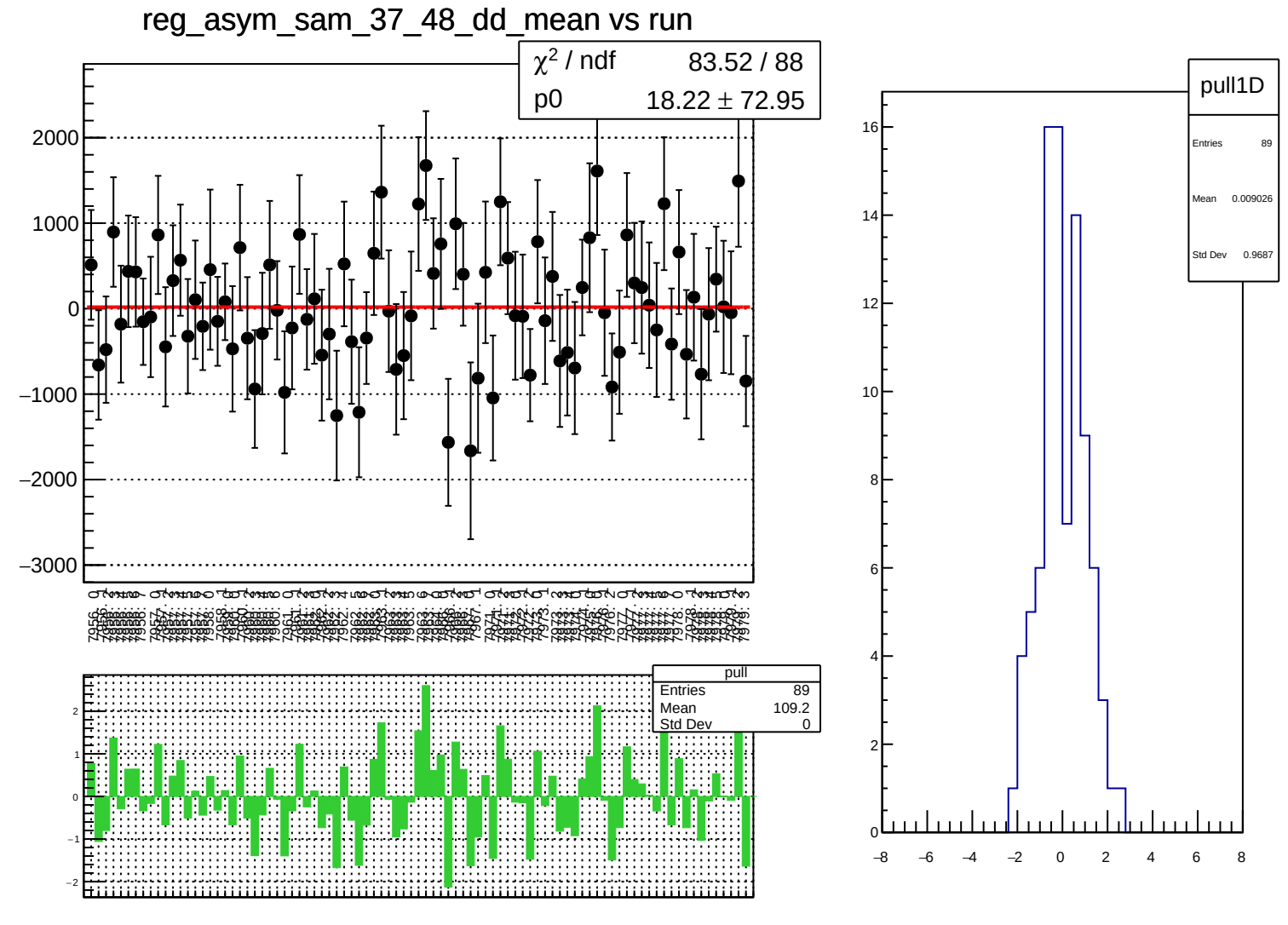

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.61 / 88
p0 0.04847 ± 0.06008
pull
Entries 89
Mean −380.7
Std Dev 0
pull1D
Entries 89
Mean −0.006451
Std Dev 0.9978

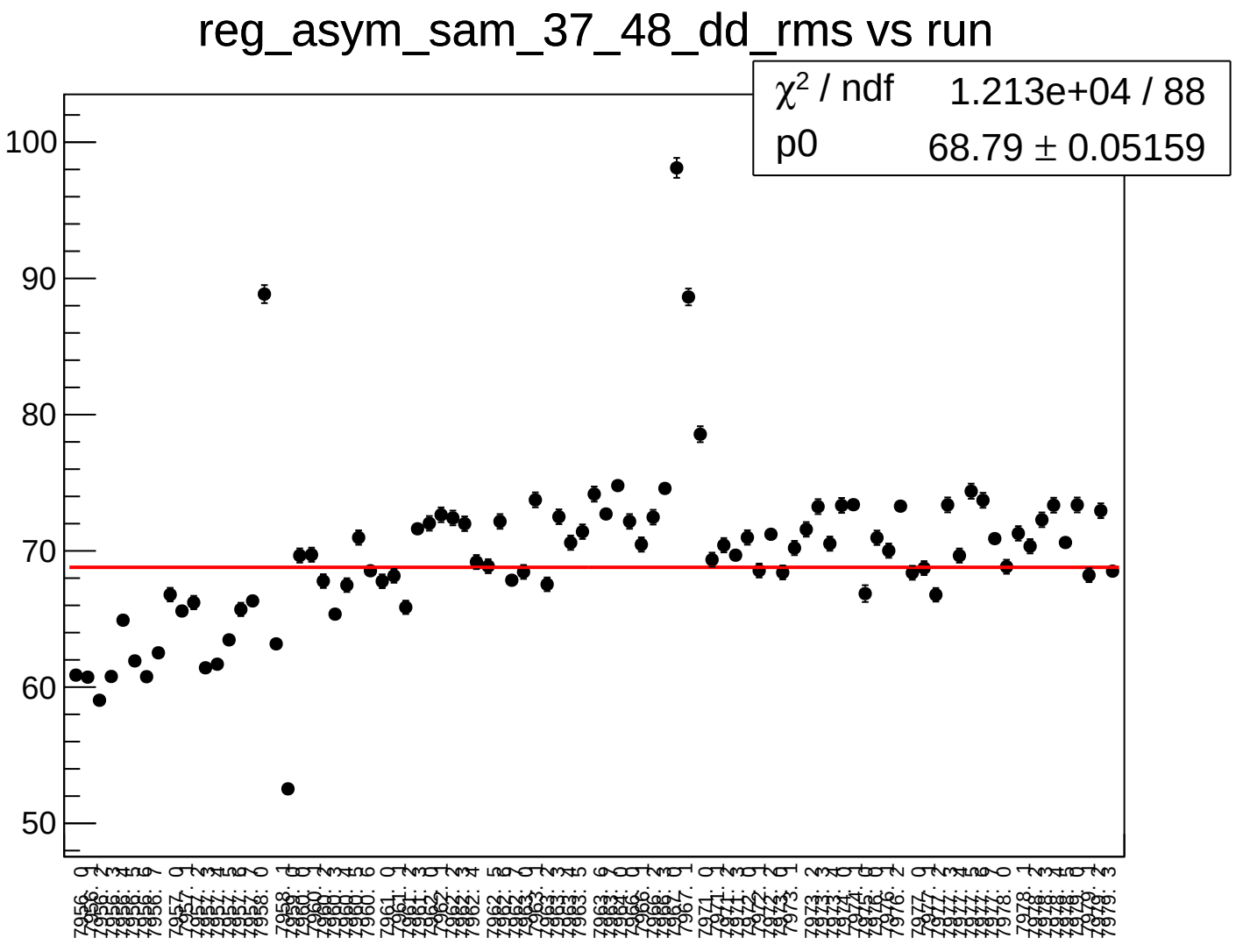

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.105e+05 / 88
p0 51.69 ± 0.04248
250
200
150
100
50

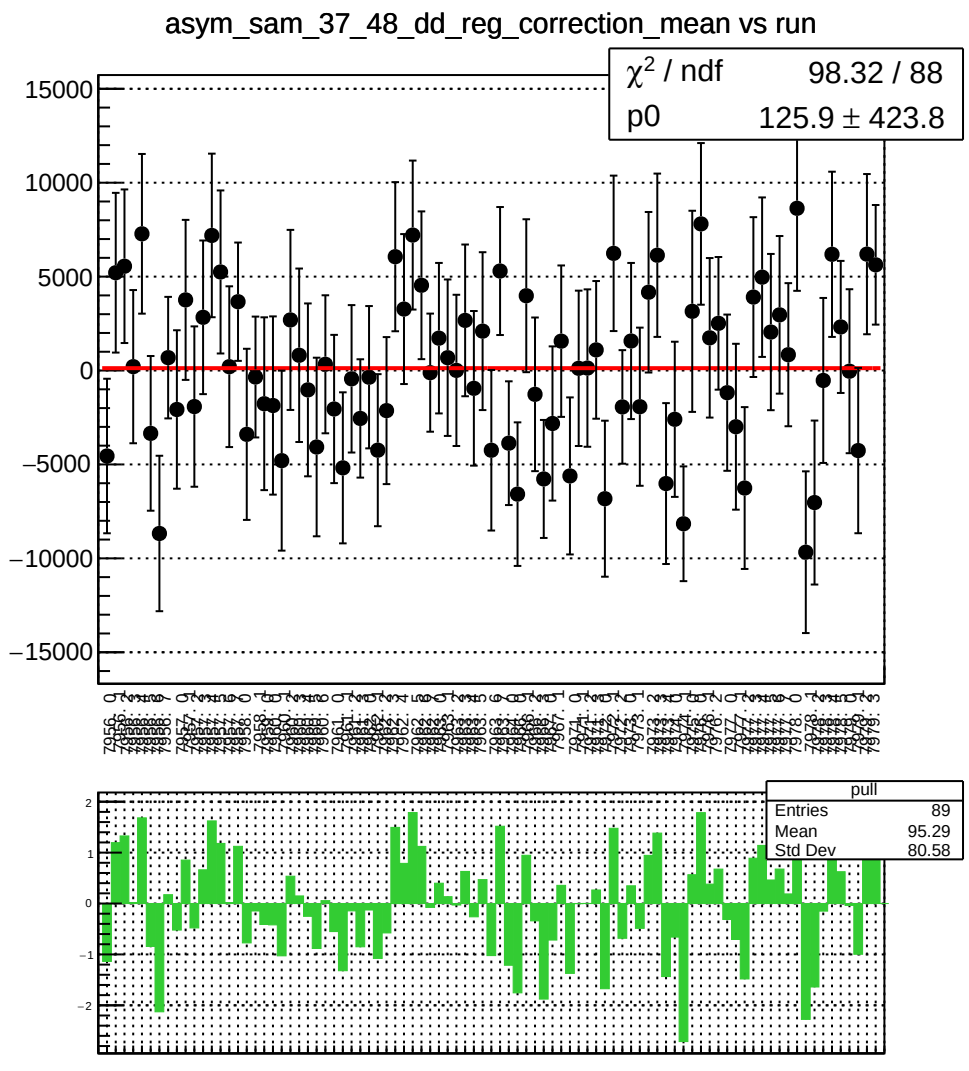

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.61 / 88
p0 −2.252e−14 ± 1.159e−13
pull
Entries 89
Mean 78.65
Std Dev 0

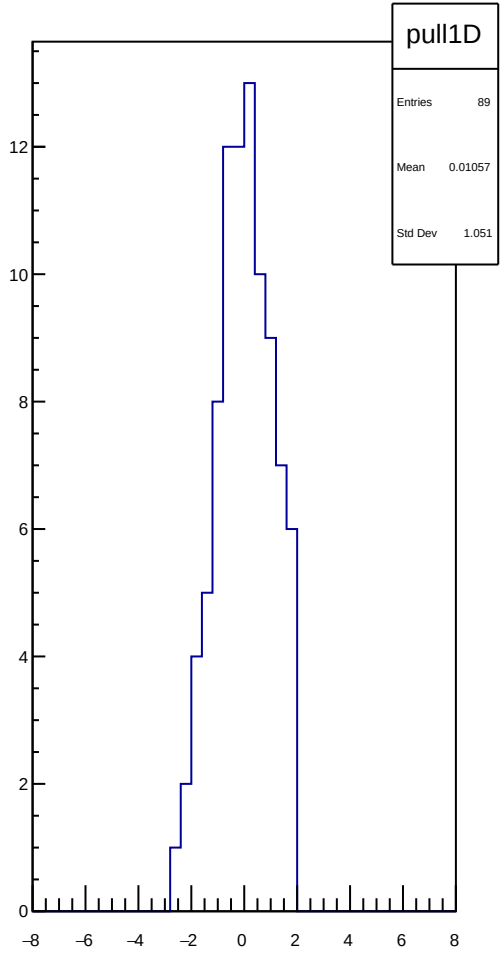

pull1D
Entries 89
Mean 0.03774
Std Dev 0.9391

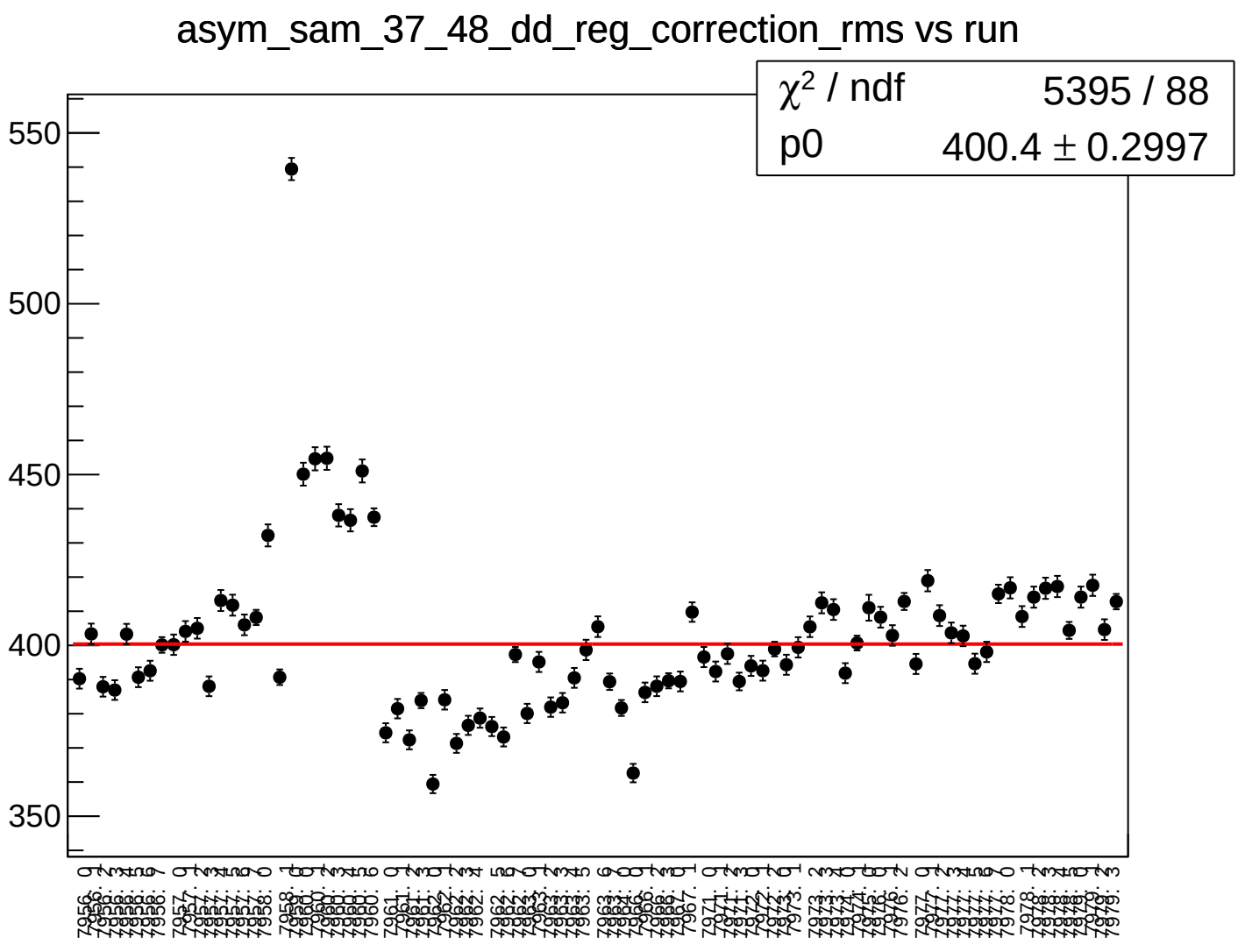

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.851e+05 / 88
p0 8.219e−11 ± 8.197e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

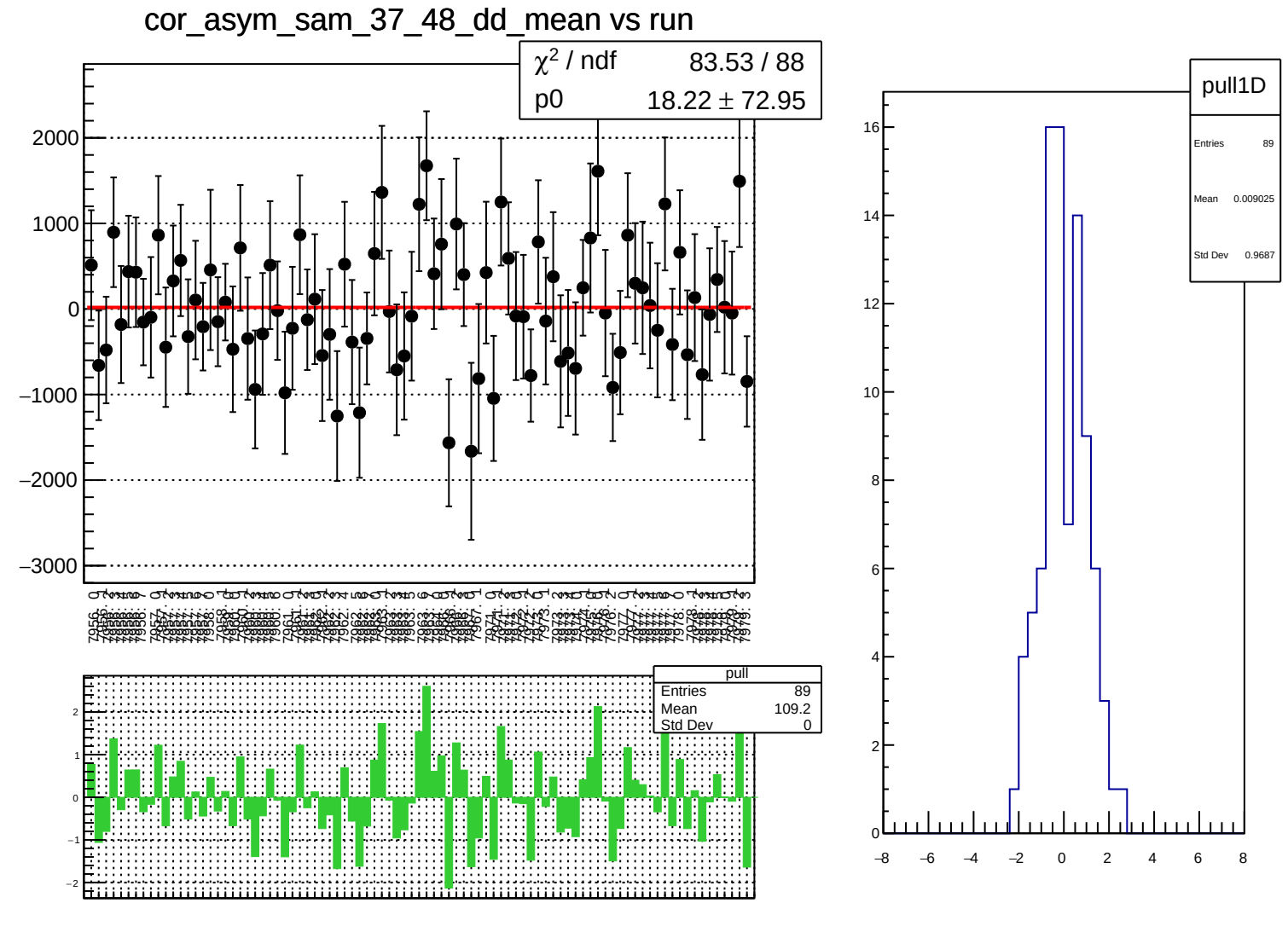

reg_asym_sam_37_48_dd_mean vs run
$\chi^2$ / ndf 83.52 / 88
p0 18.22 ± 72.95
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 109.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.009026
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

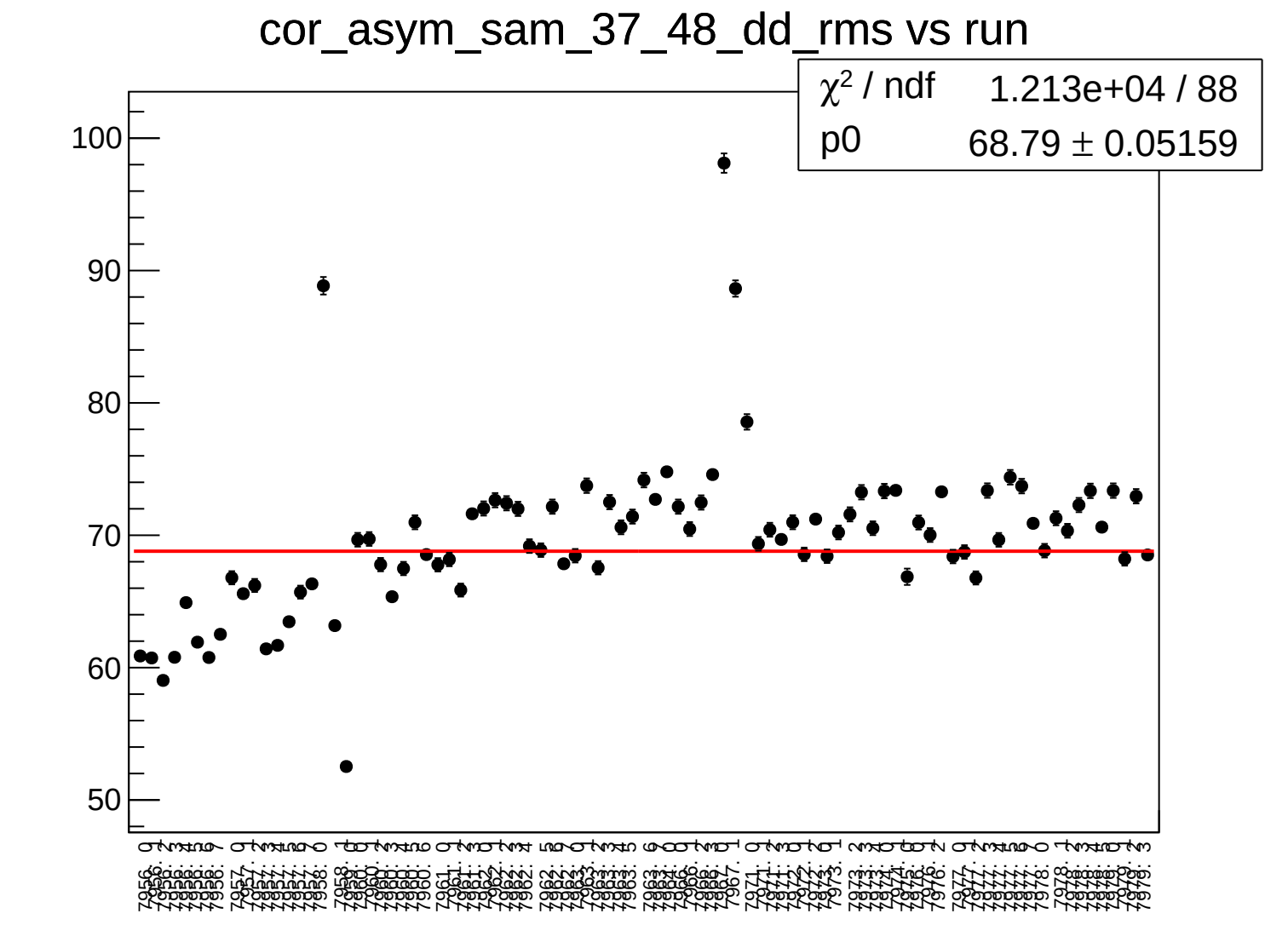

reg_asym_sam_37_48_dd_rms vs run
$\chi^2$ / ndf 1.213e+04 / 88
p0 68.79 ± 0.05159
100
90
80
70
60
50

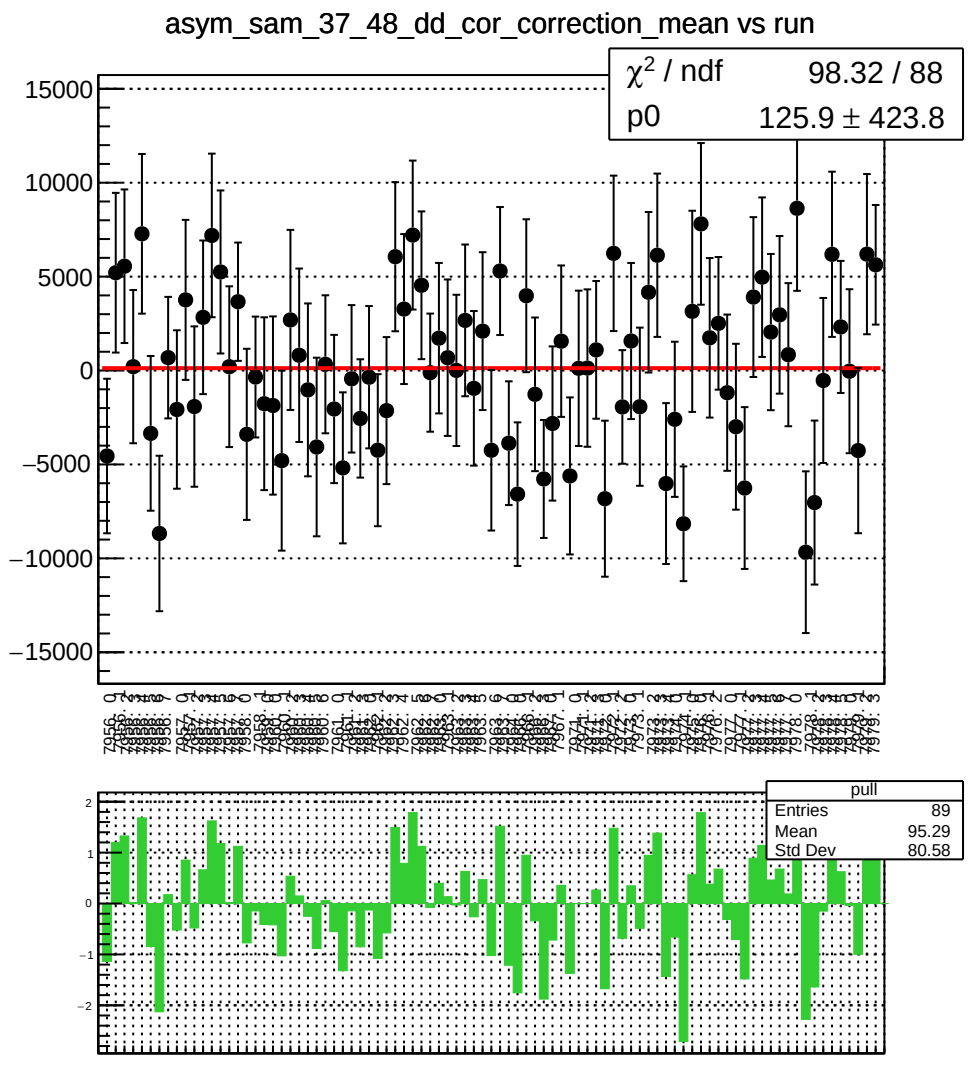

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 98.32 / 88
p0 125.9 ± 423.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 95.29
Std Dev 80.58
2
1
0
−1
−2

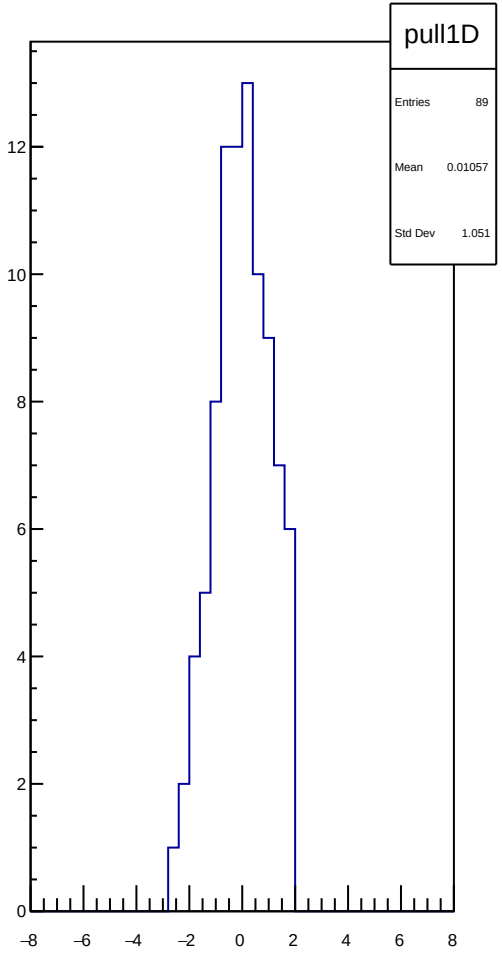

pull1D
Entries 89
Mean 0.01057
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

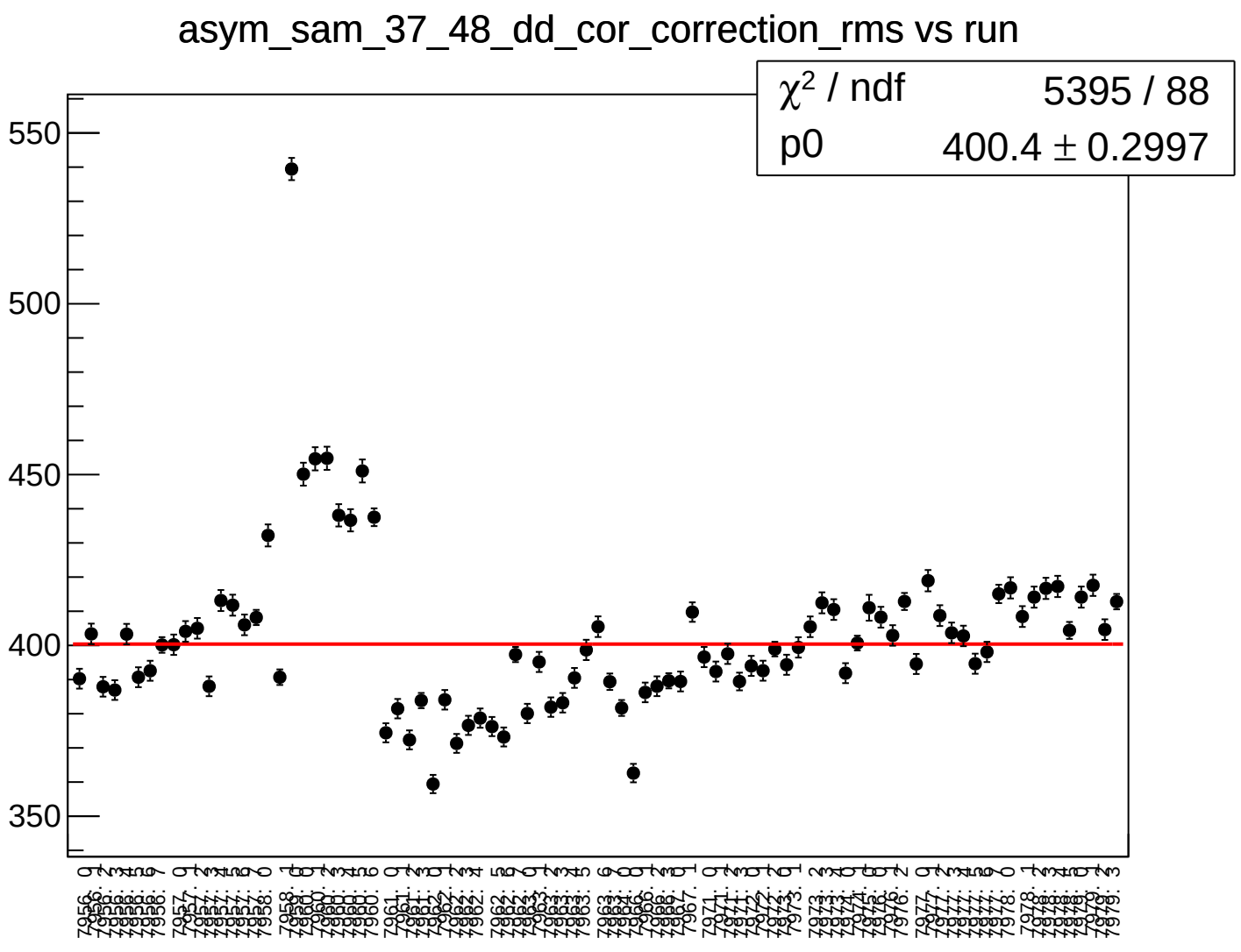

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 5395 / 88
p0 400.4 ± 0.2997
550
500
450
400
350

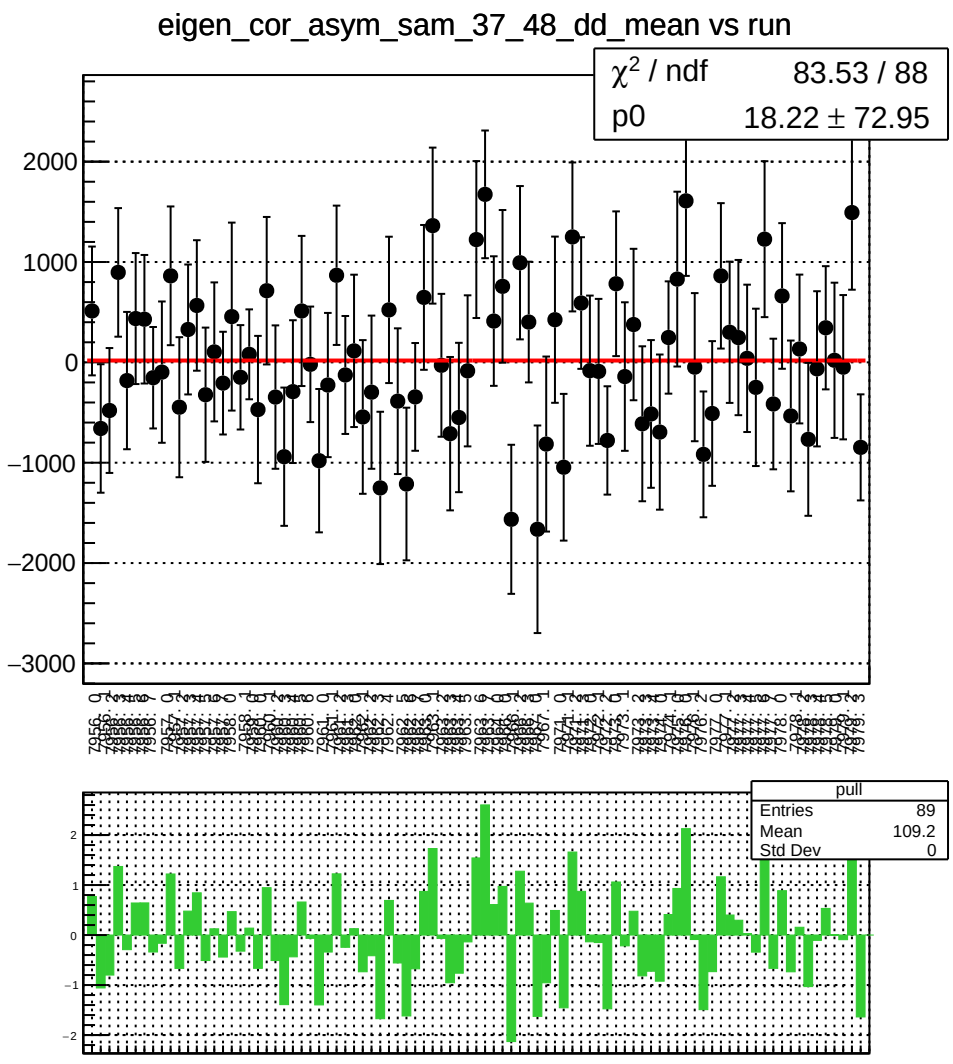

cor_asym_sam_37_48_dd_mean vs run
$\chi^2$ / ndf 83.53 / 88
p0 18.22 ± 72.95
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 109.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.009025
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

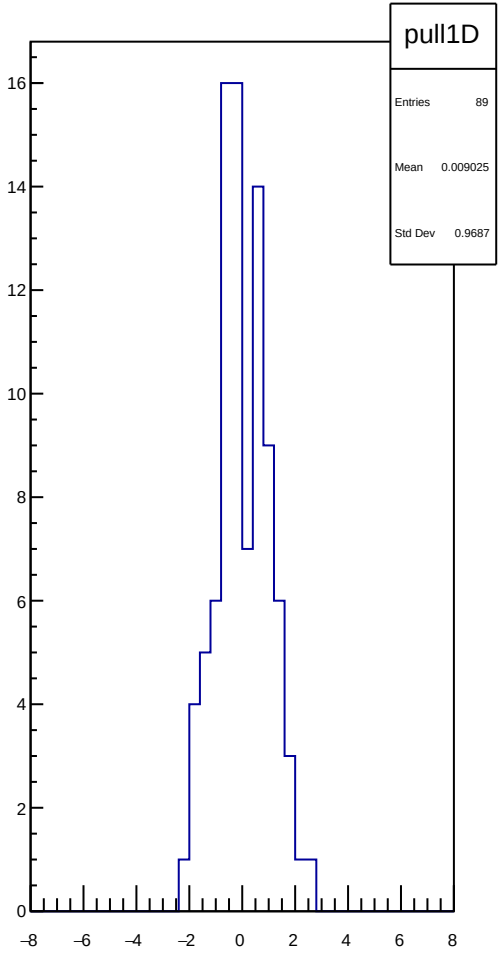

cor_asym_sam_37_48_dd_rms vs run
$\chi^2$ / ndf 1.213e+04 / 88
p0 68.79 ± 0.05159
100
90
80
70
60
50

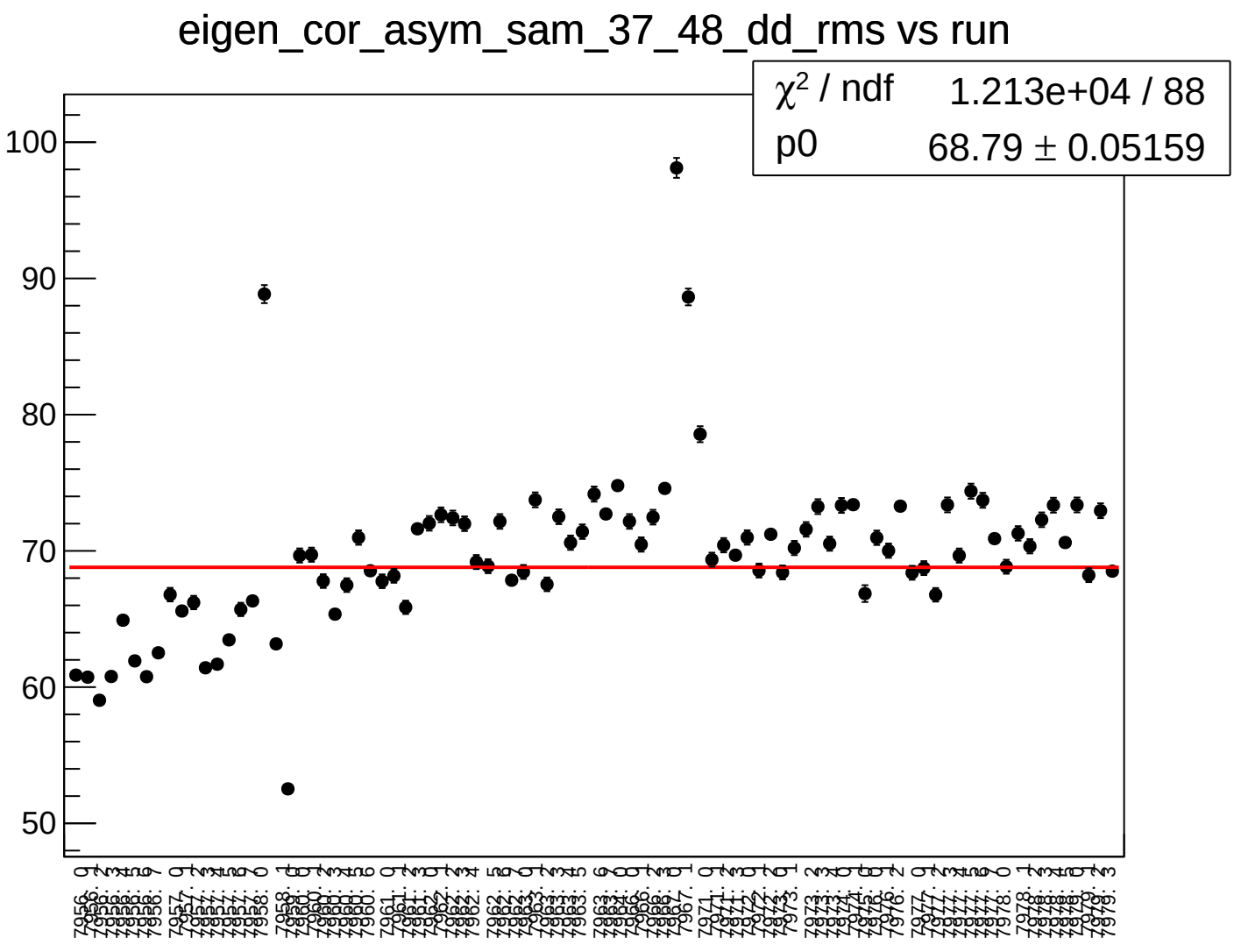

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 98.32 / 88
p0 125.9 ± 423.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 95.29
Std Dev 80.58
2
1
0
−1
−2

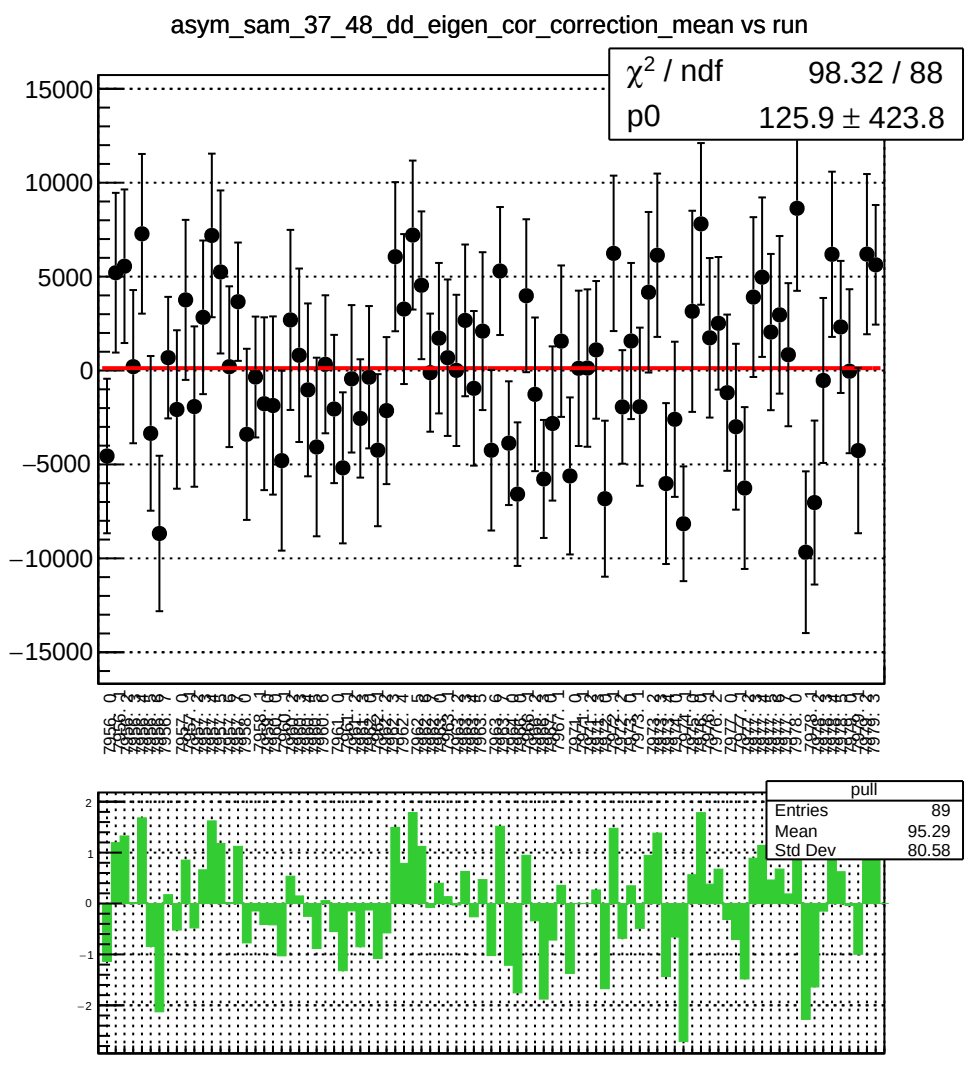

pull1D
Entries 89
Mean 0.01057
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

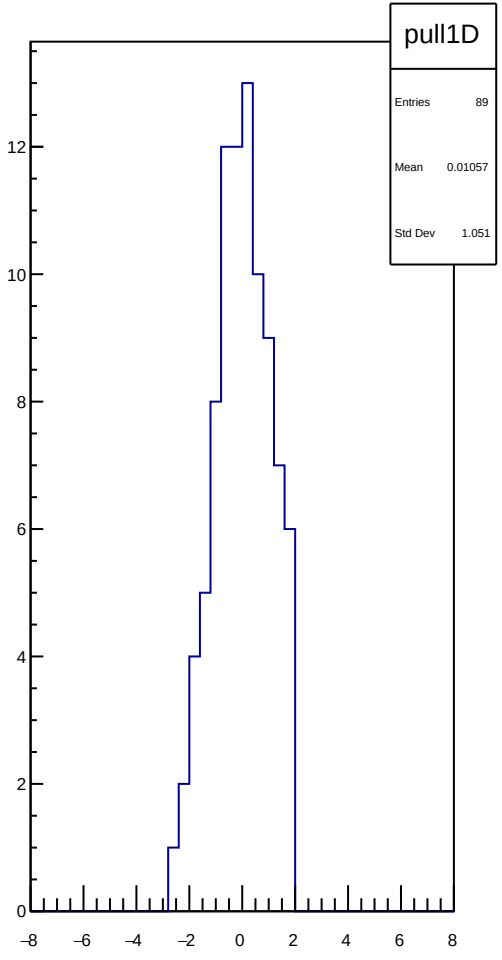

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 5395 / 88
p0 400.4 ± 0.2997
550
500
450
400
350

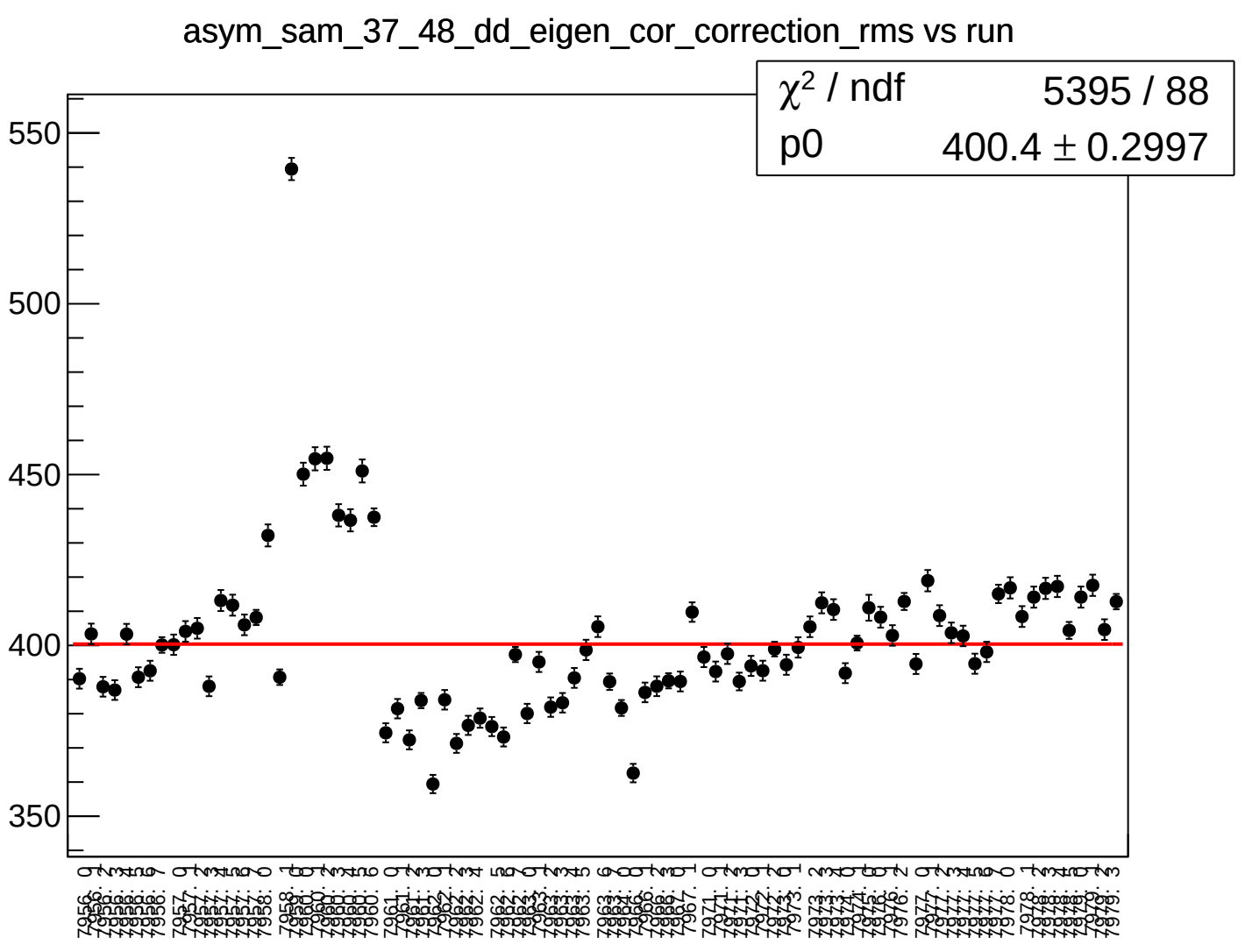

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 83.53 / 88
p0 18.22 ± 72.95
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 109.2
Std Dev 0
2
1
0
−1
−2

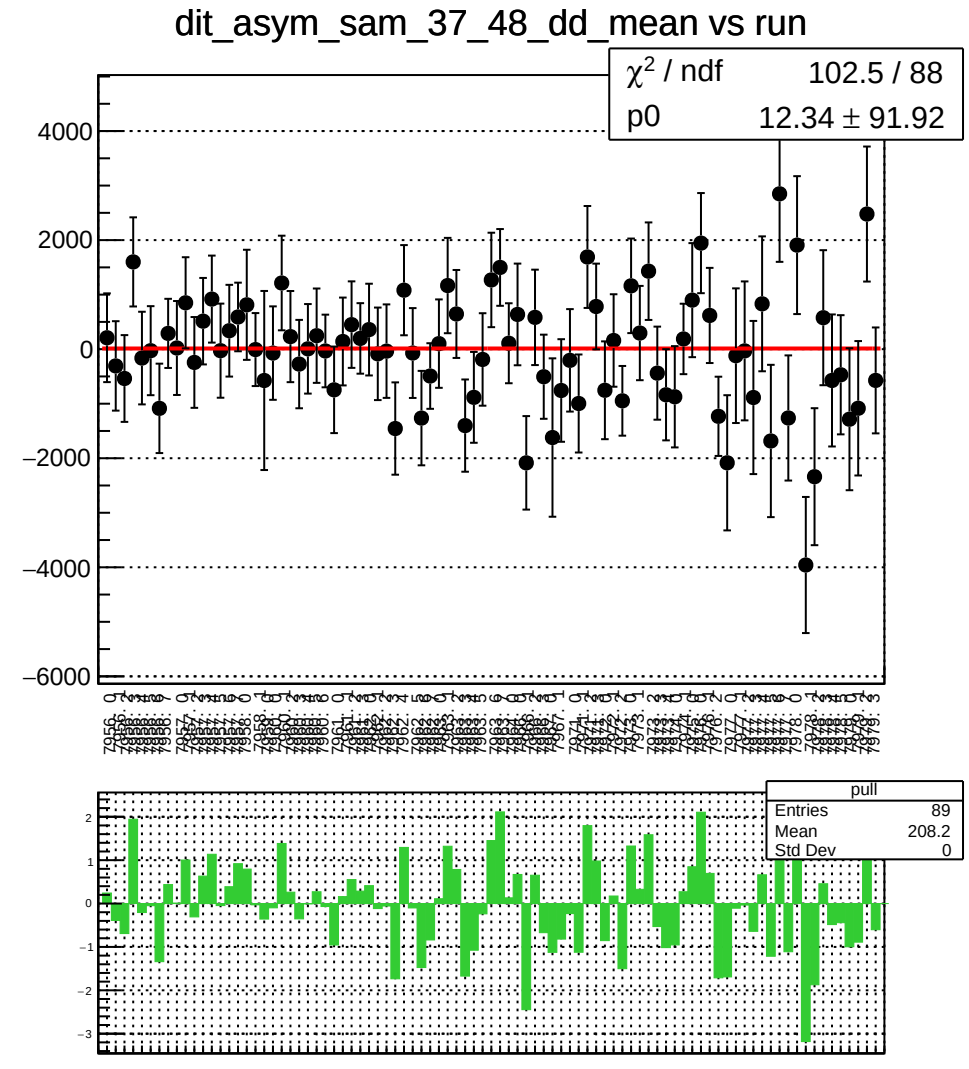

pull1D
Entries 89
Mean 0.009025
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

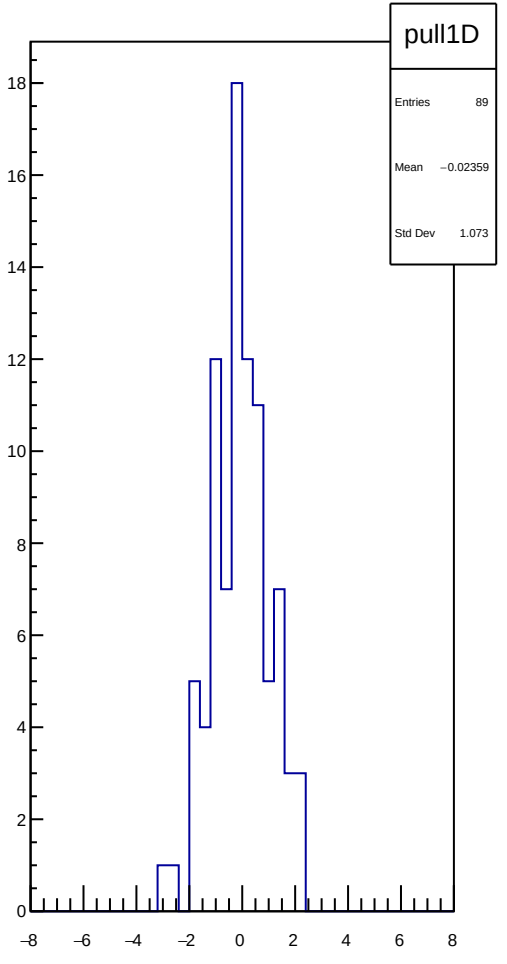

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.213e+04 / 88
p0 68.79 ± 0.05159
100
90
80
70
60
50

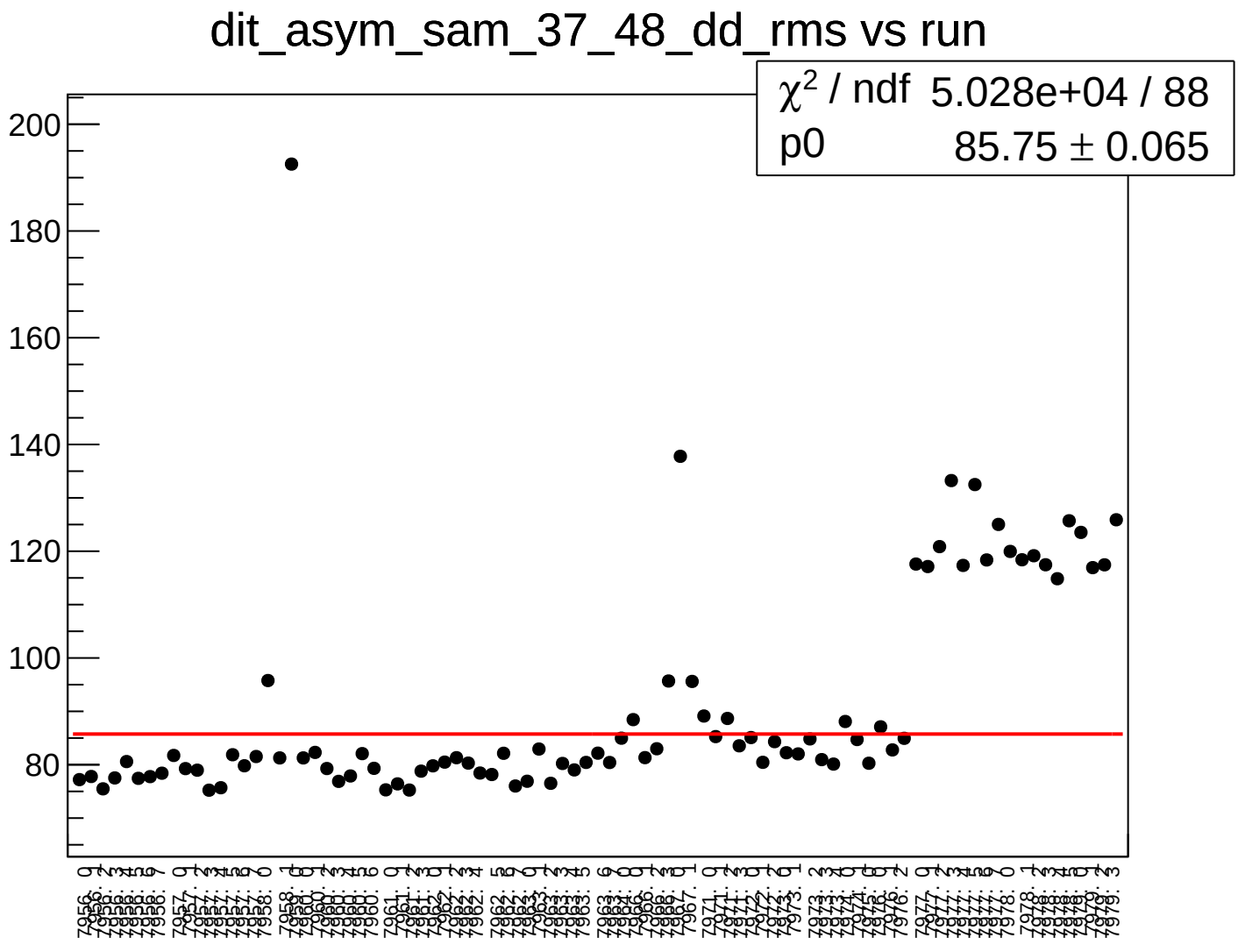

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.32 / 88
p0 125.9 ± 423.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 95.29
Std Dev 80.58
2
1
0
−1
−2

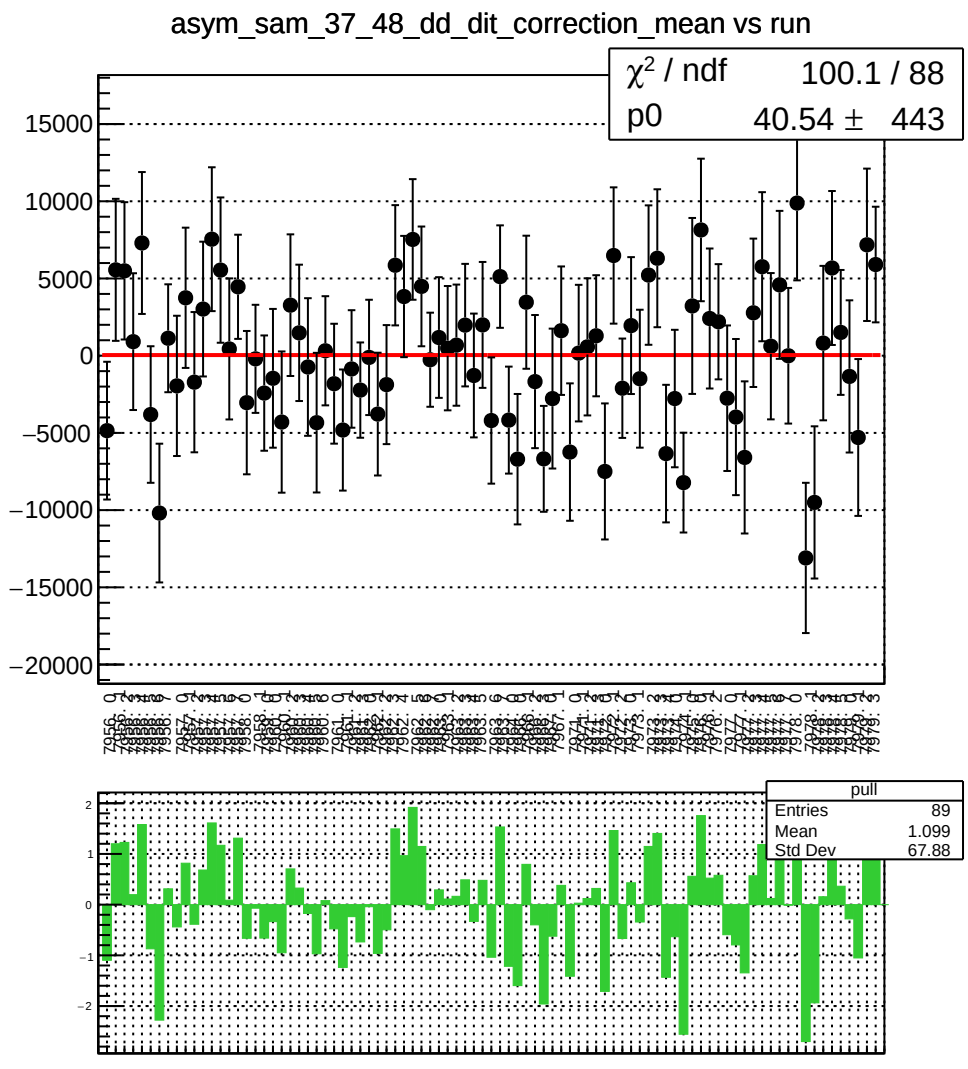

pull1D
Entries 89
Mean 0.01057
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

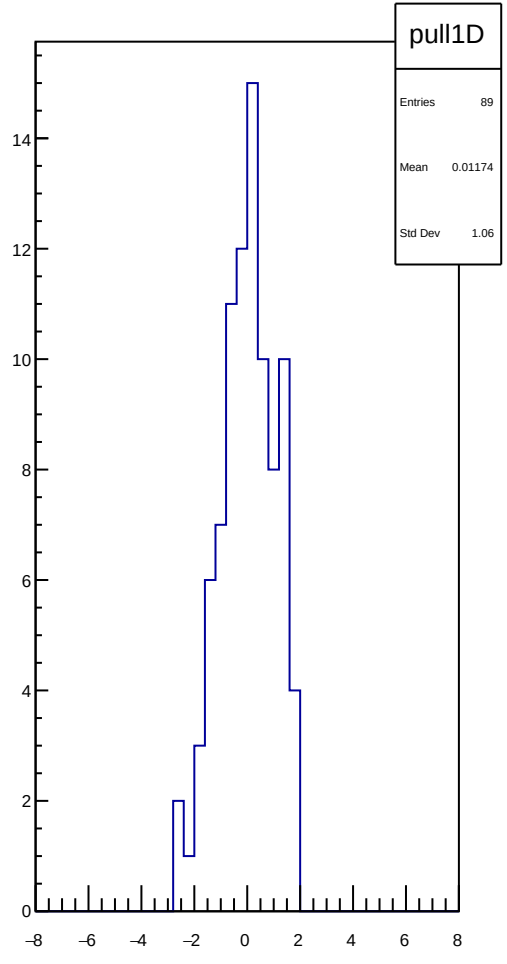

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5395 / 88
p0 400.4 ± 0.2997
550
500
450
400
350

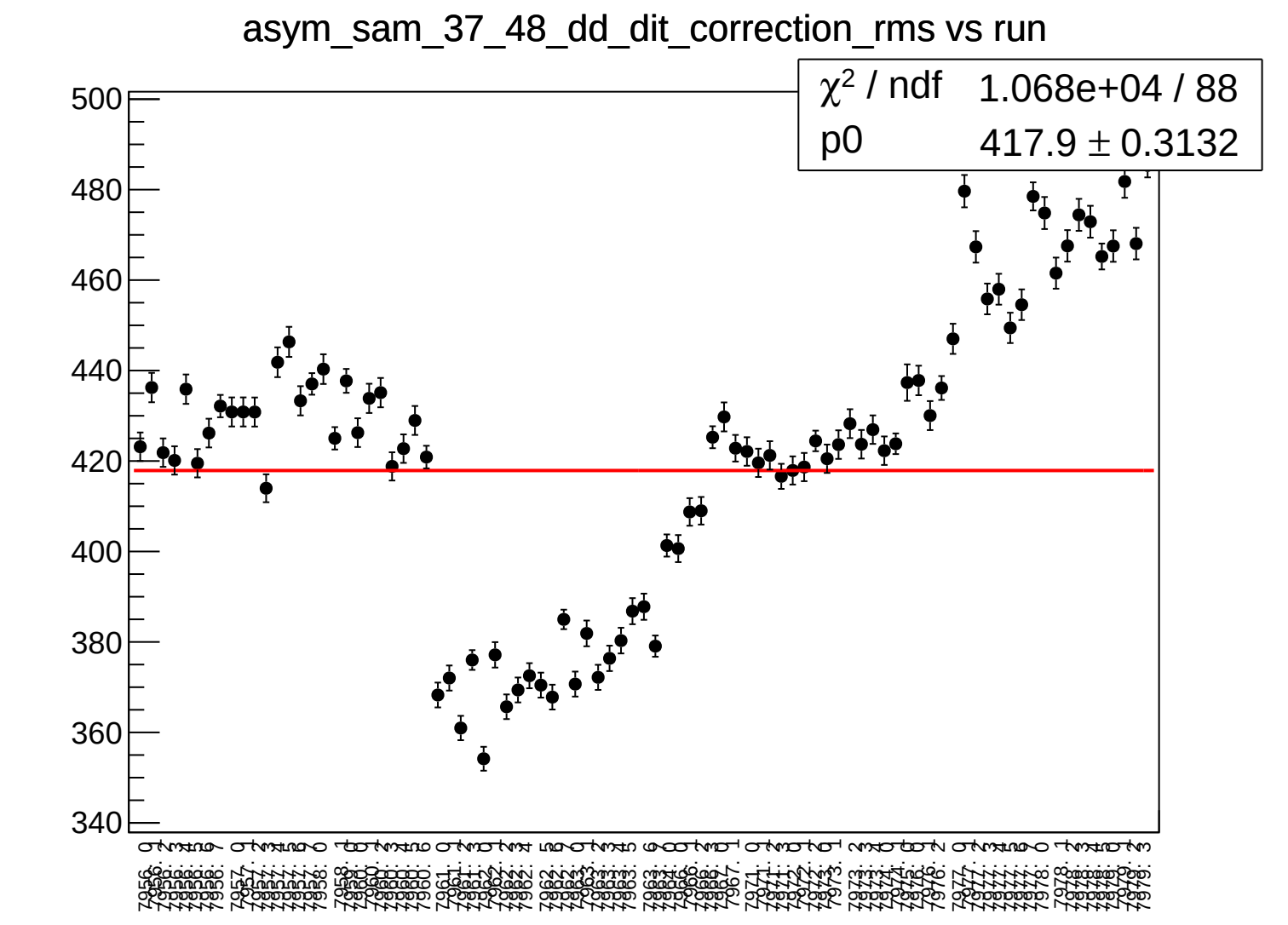

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 102.5 / 88
p0 12.34 ± 91.92
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 208.2
Std Dev 0
2
1
0
−1
−2
−3

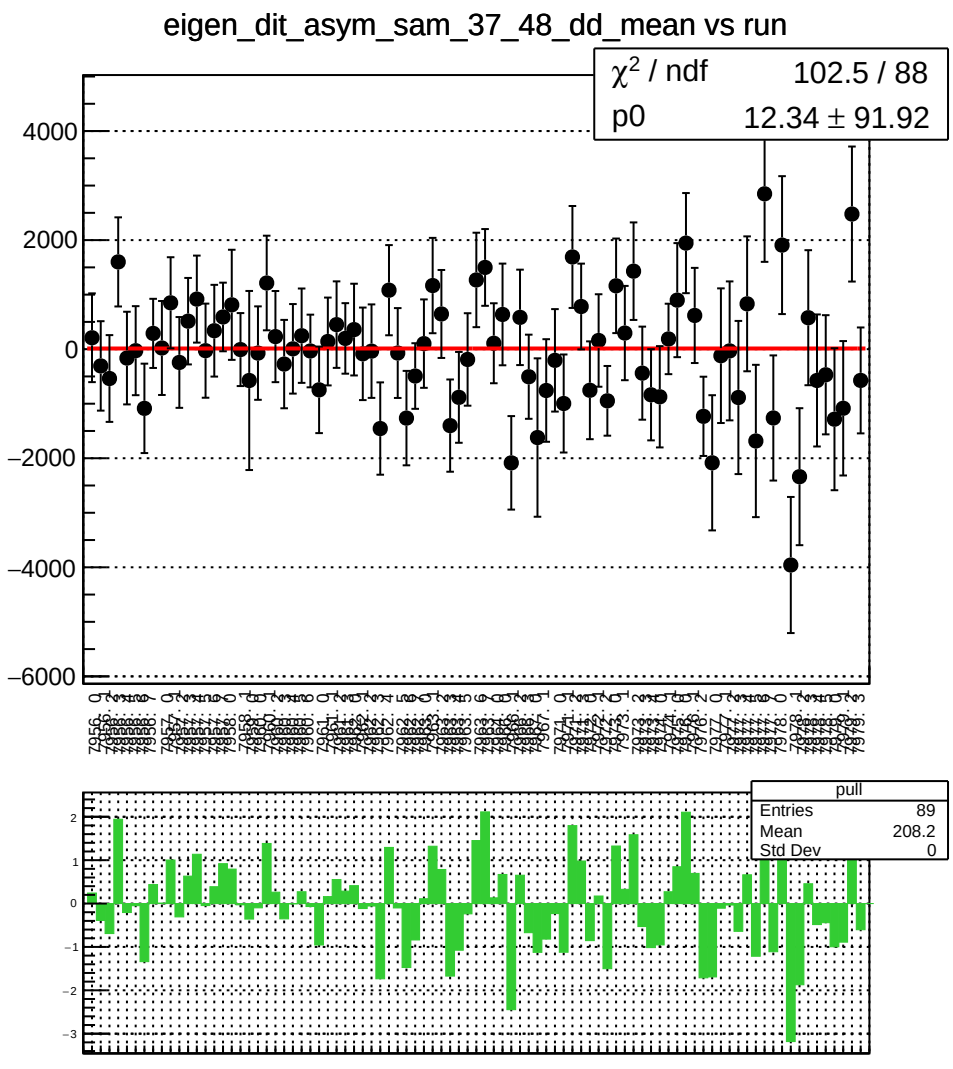

pull1D
Entries 89
Mean −0.02359
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

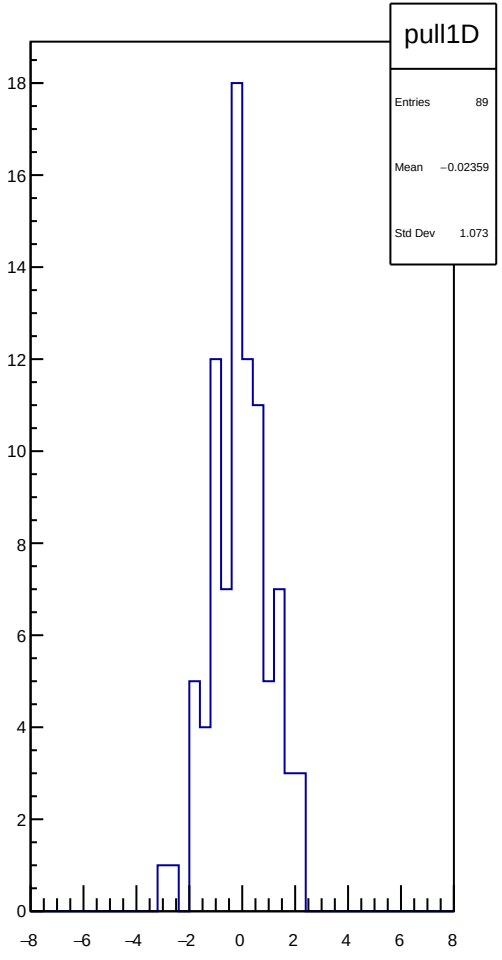

dit_asym_sam_37_48_dd_rms vs run
$\chi^2$ / ndf 5.028e+04 / 88
p0 85.75 ± 0.065
200
180
160
140
120
100
80

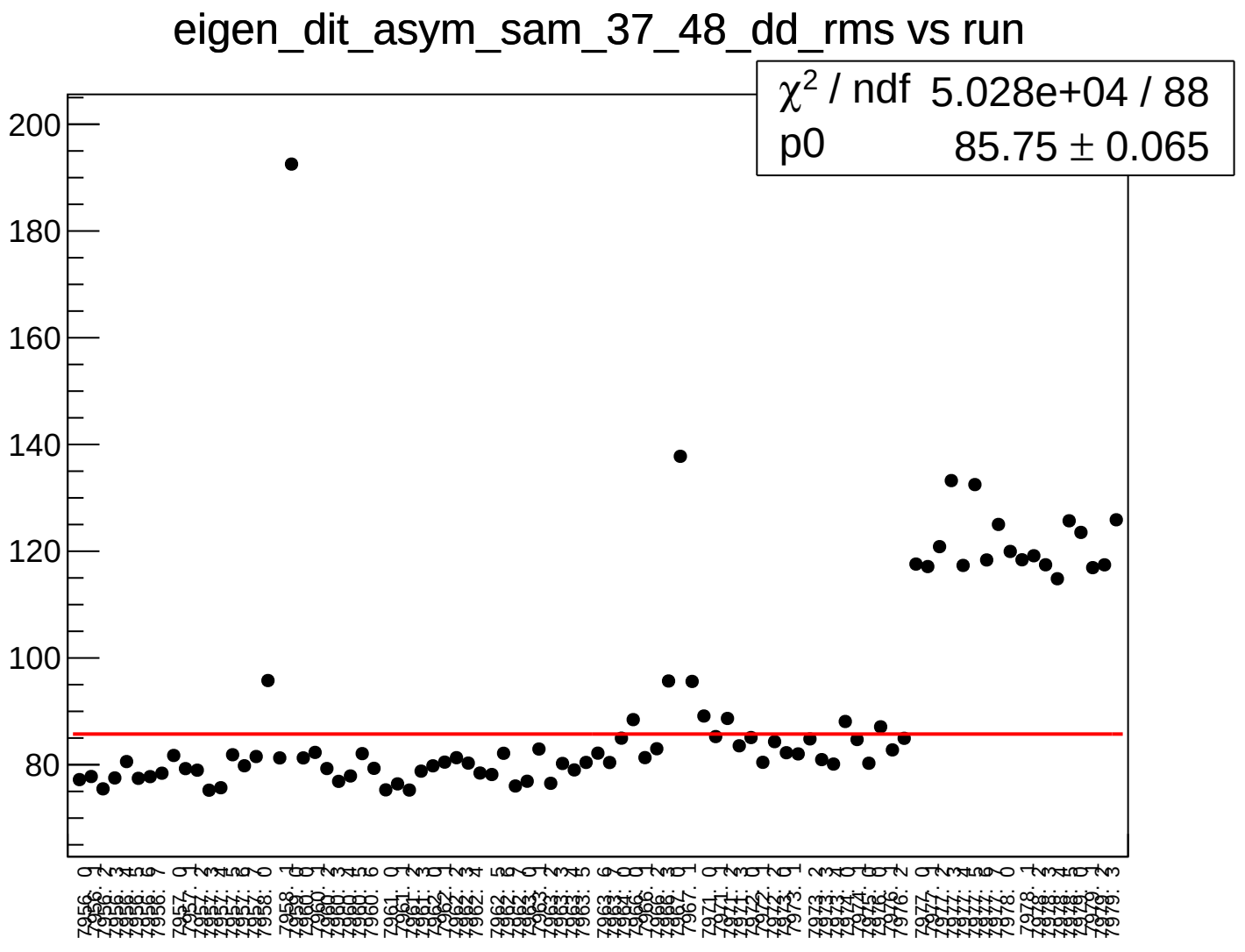

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 100.1 / 88
p0 40.54 ± 443
pull
Entries 89
Mean 1.099
Std Dev 67.88

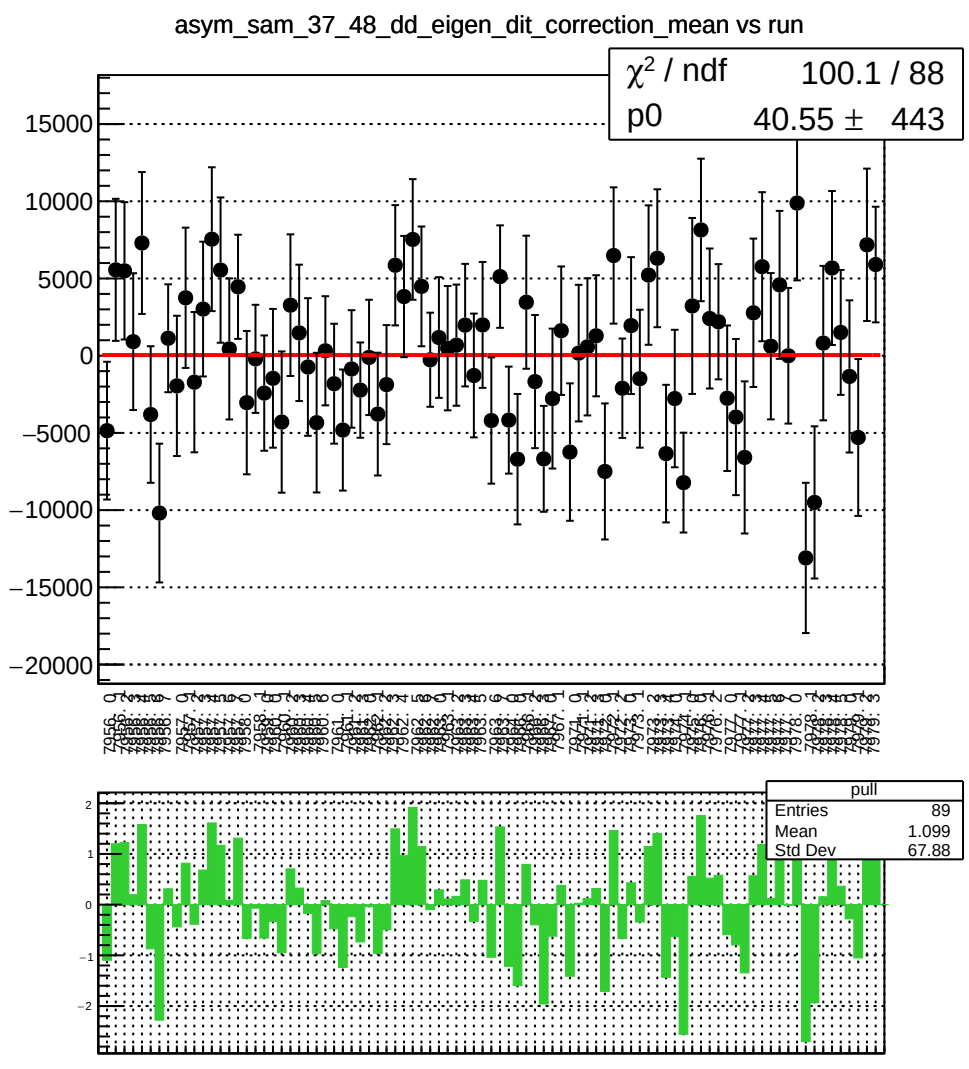

pull1D
Entries 89
Mean 0.01174
Std Dev 1.06

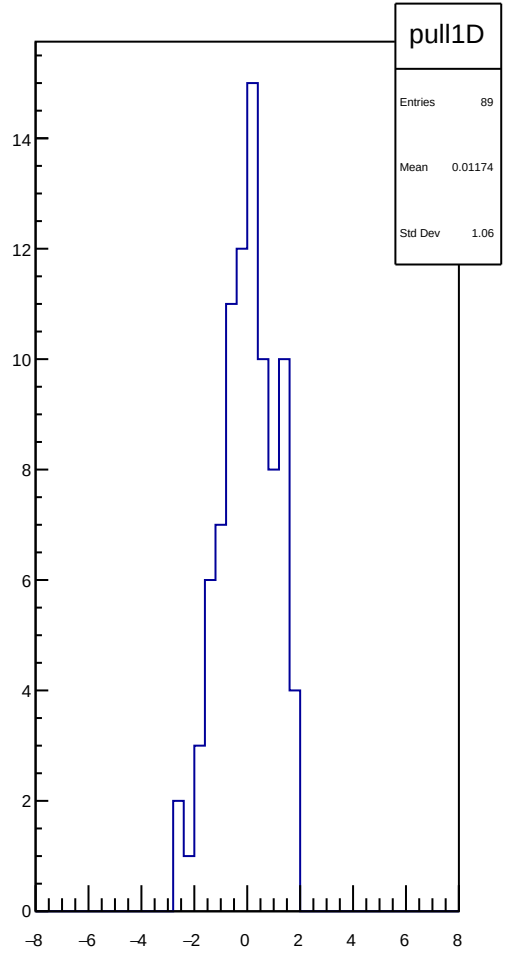

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1.068e+04 / 88
p0 417.9 ± 0.3132
500
480
460
440
420
400
380
360
340

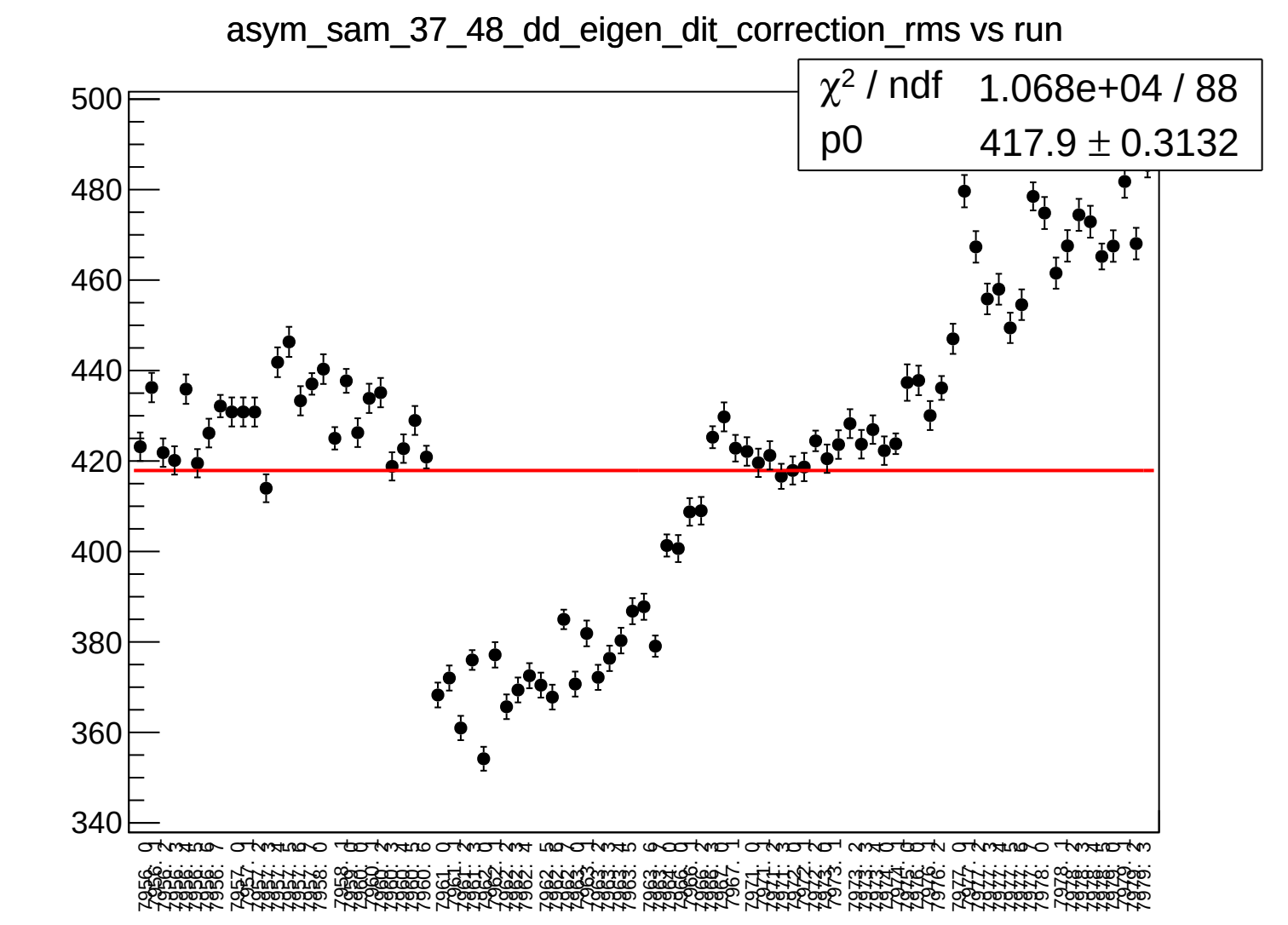

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 102.5 / 88
p0 12.34 ± 91.92
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 208.2
Std Dev 0
2
1
0
−1
−2
−3

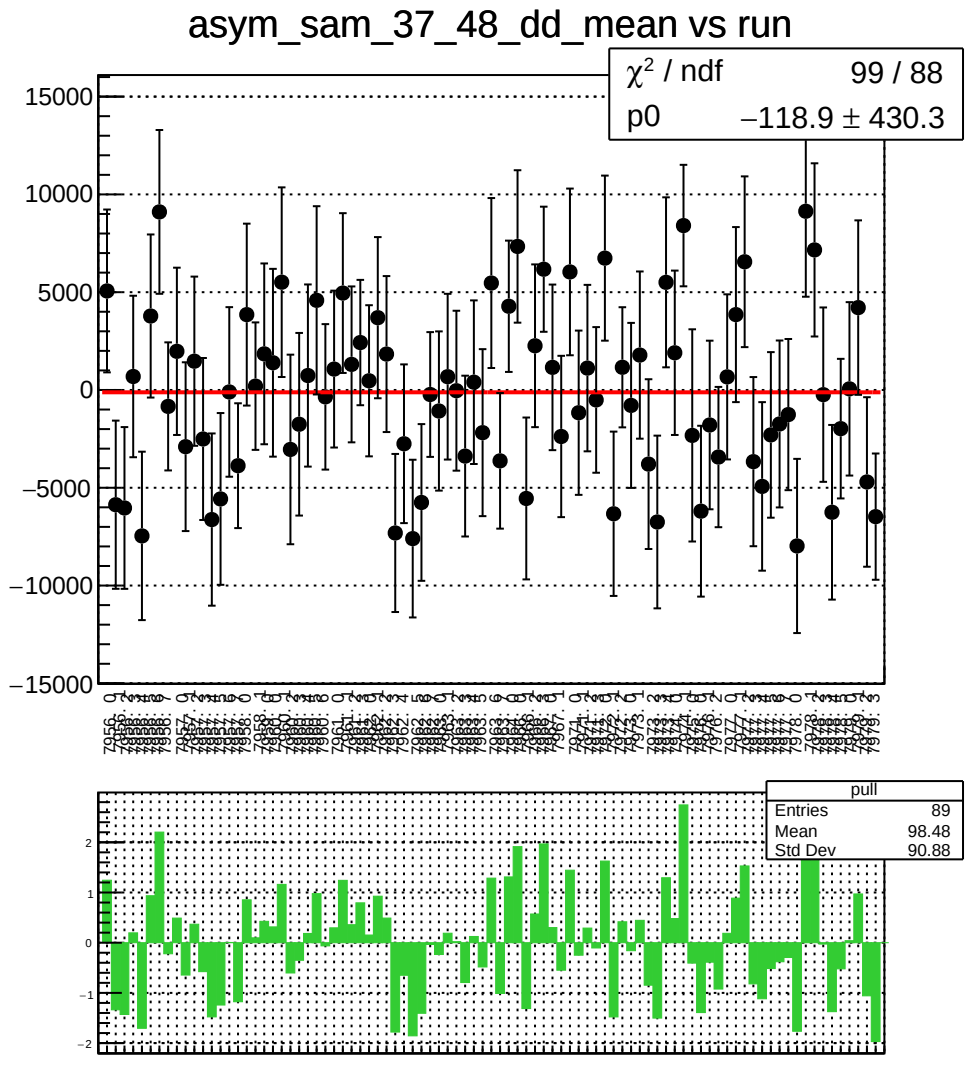

pull1D
Entries 89
Mean −0.02359
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

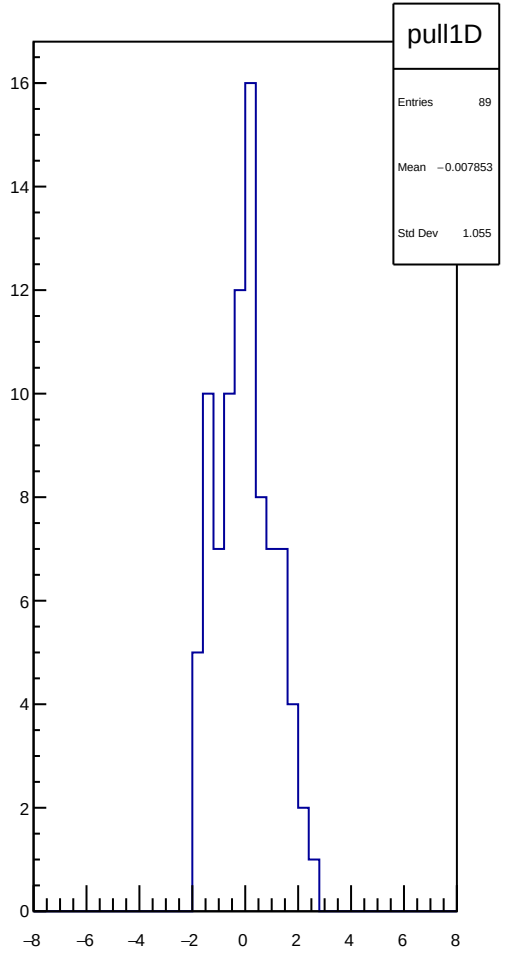

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 5.028e+04 / 88
p0 85.75 ± 0.065
200
180
160
140
120
100
80

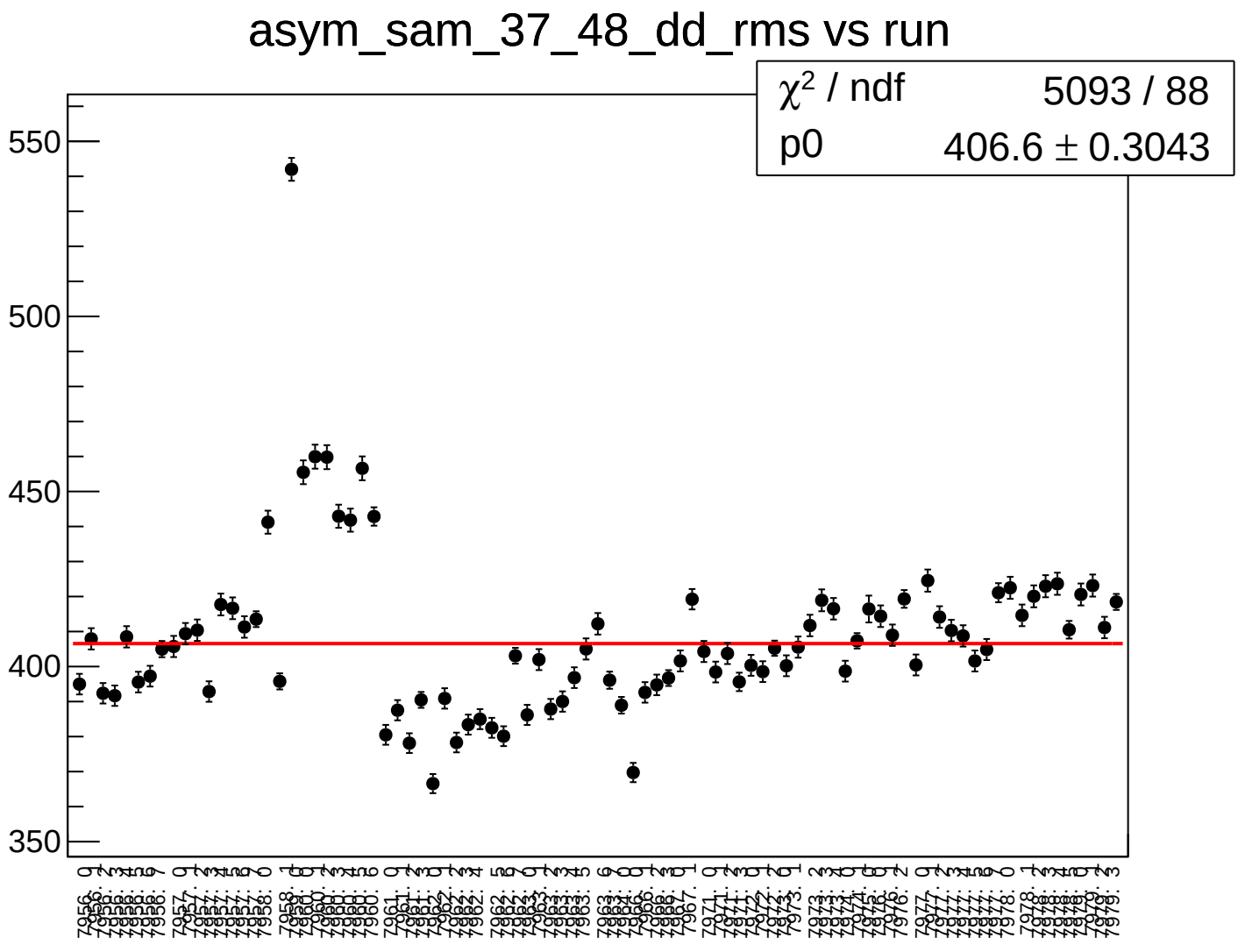

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.1 / 88
p0 40.55 ± 443
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 1.099
Std Dev 67.88
2
1
0
−1
−2

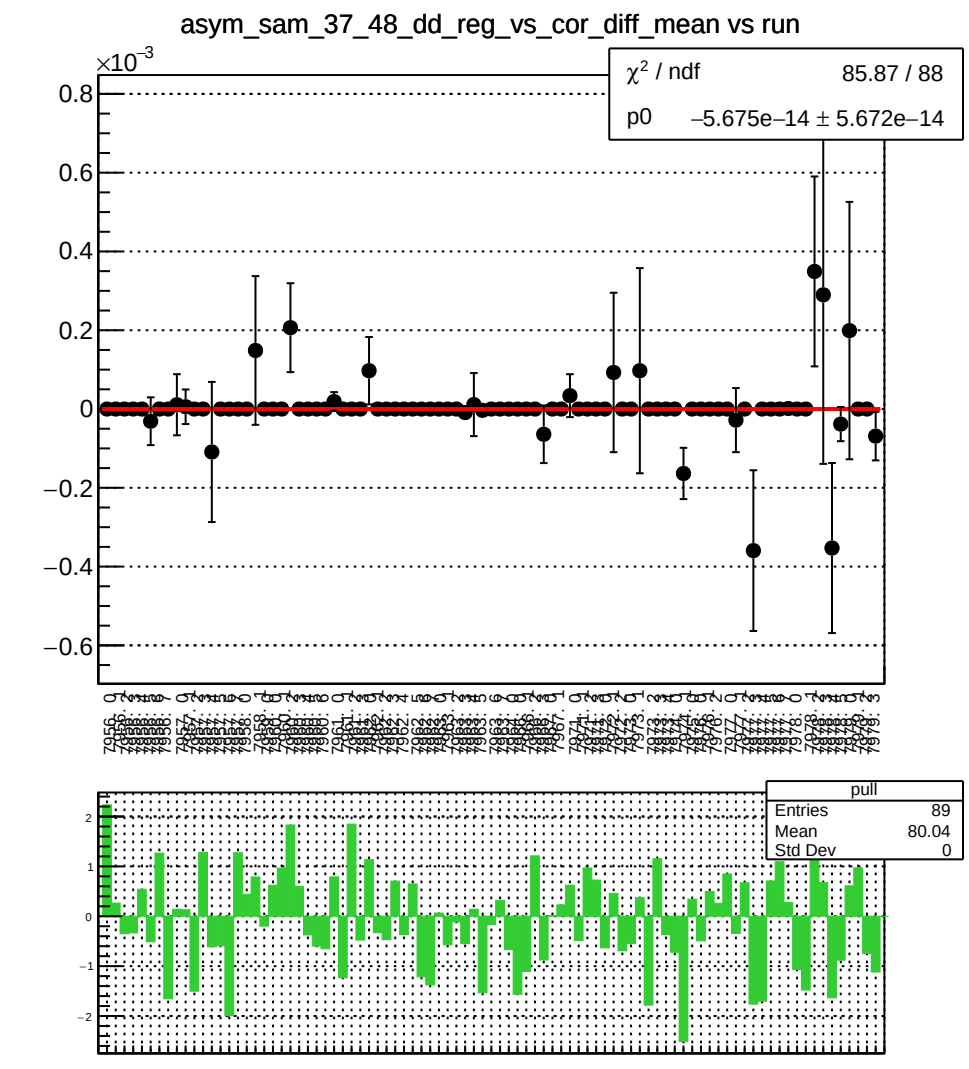

pull1D
Entries 89
Mean 0.01174
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

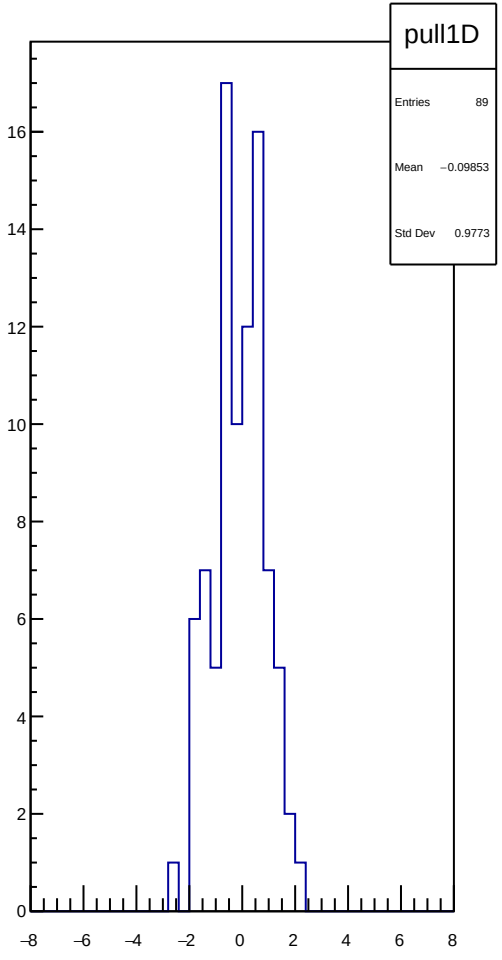

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.068e+04 / 88
p0 417.9 ± 0.3132
500
480
460
440
420
400
380
360
340

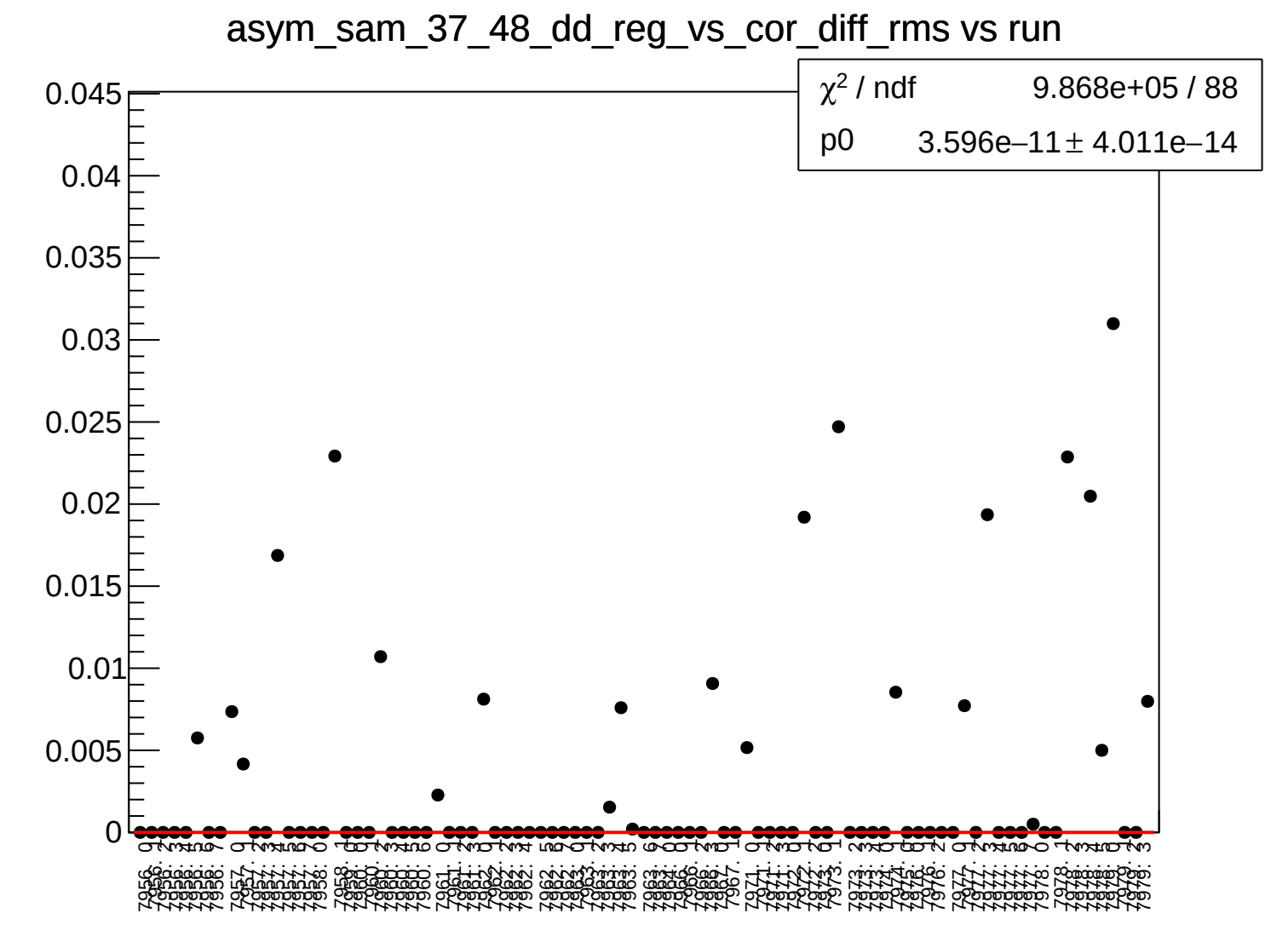

asym_sam_37_48_dd_mean vs run
χ² / ndf 99 / 88
p0 −118.9 ± 430.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 98.48
Std Dev 90.88
2
1
0
−1
−2

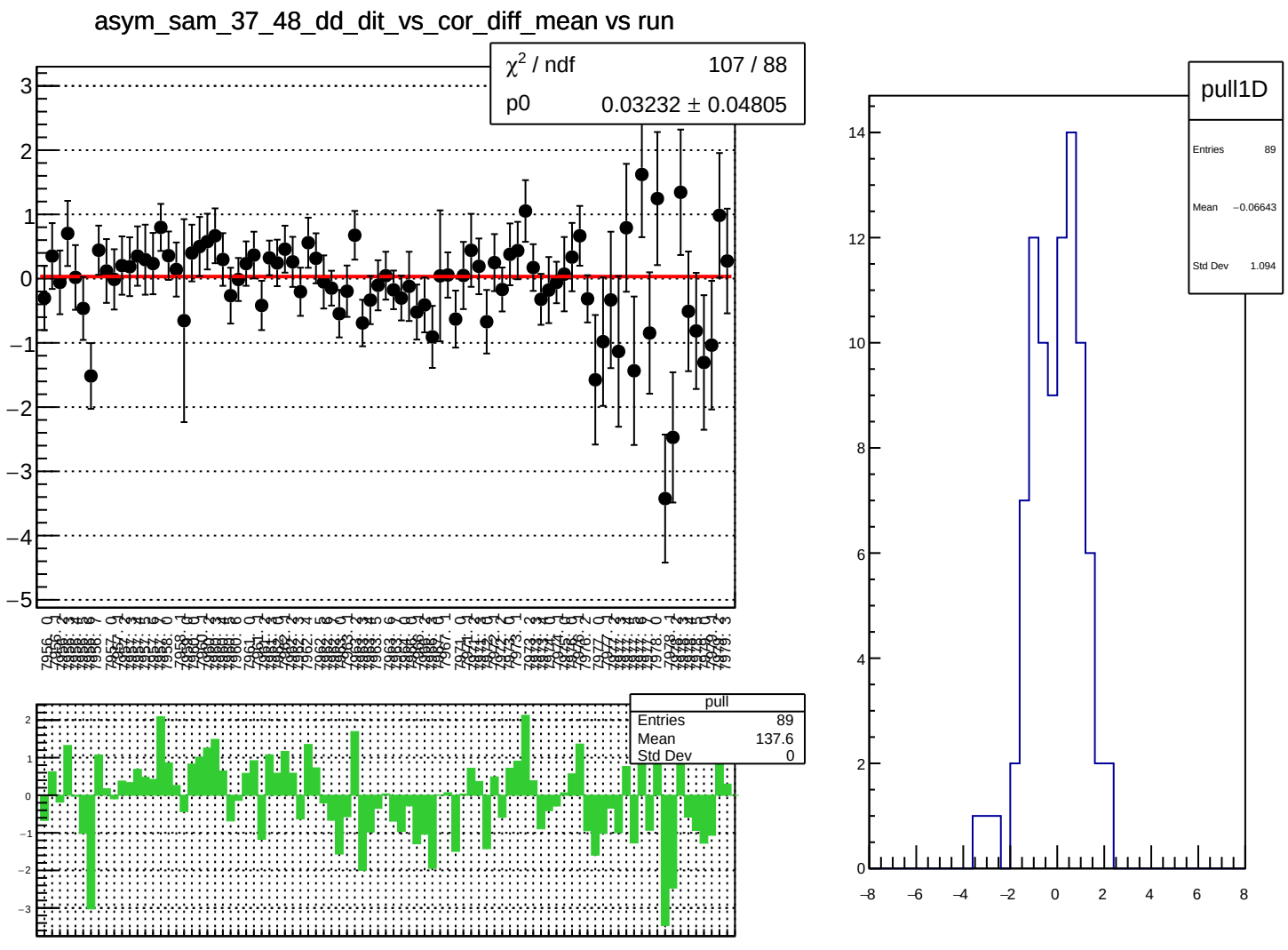

pull1D
Entries 89
Mean −0.007853
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

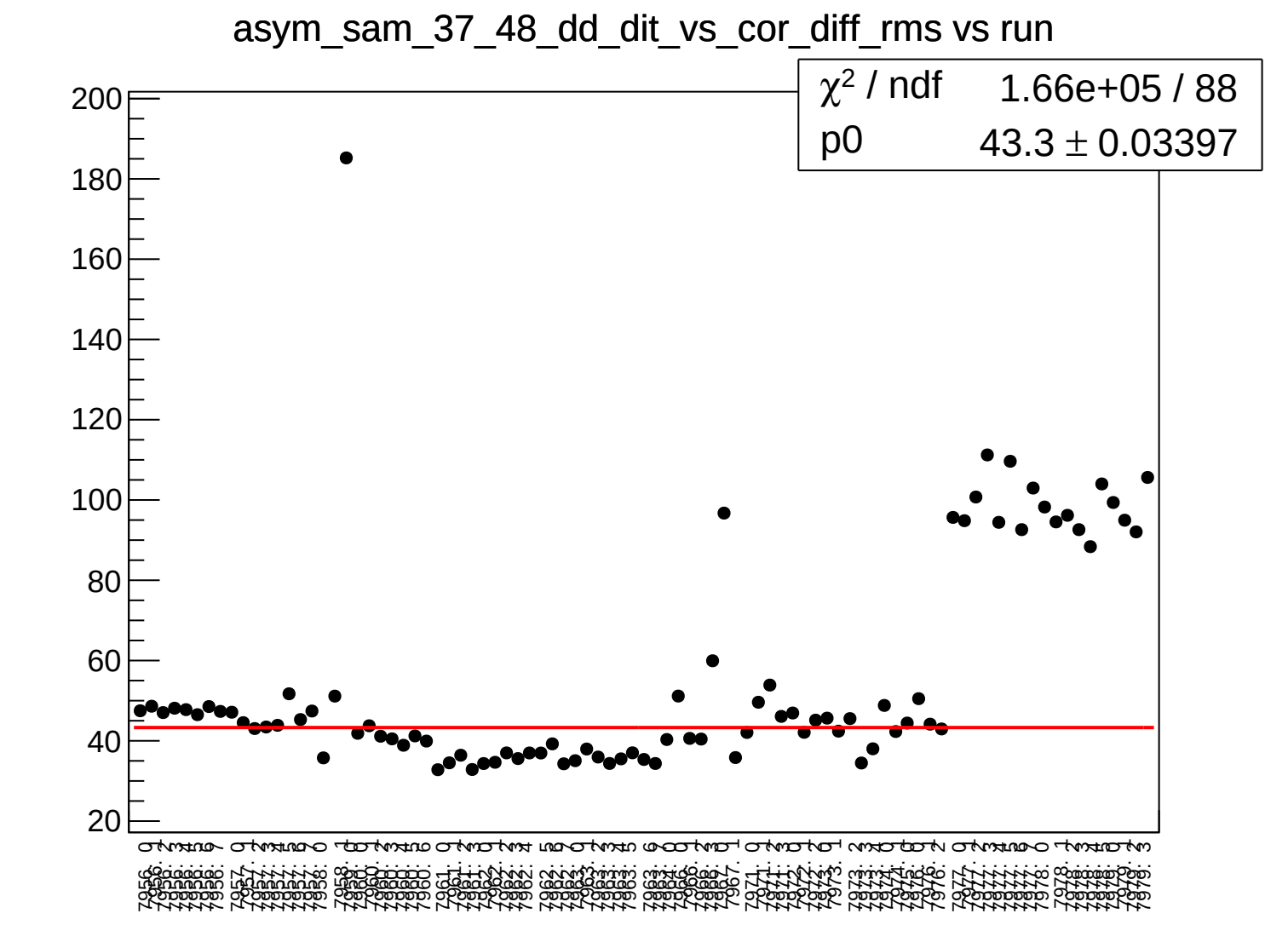

asym_sam_37_48_dd_rms vs run
χ² / ndf 5093 / 88
p0 406.6 ± 0.3043
550
500
450
400
350

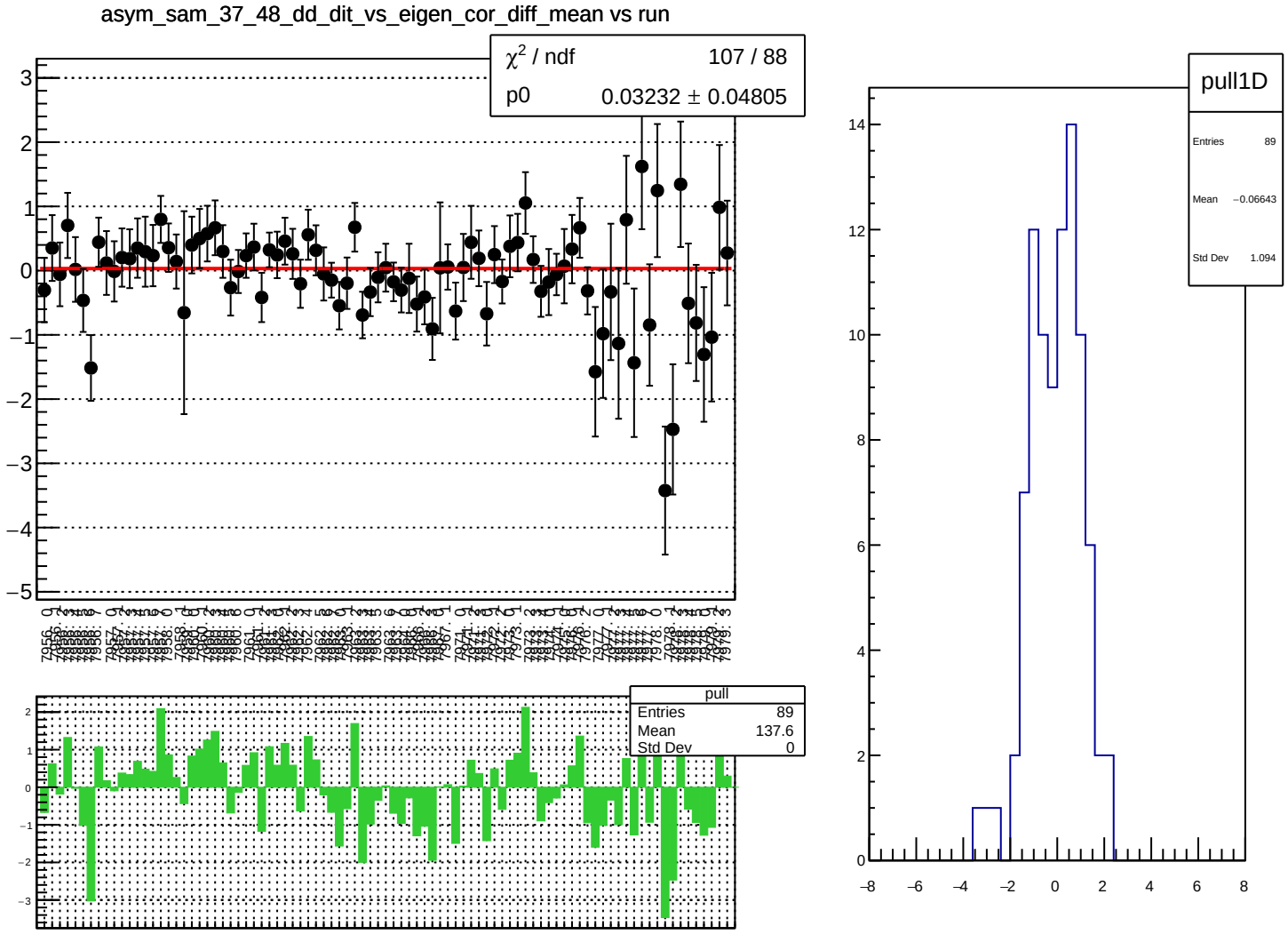

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 85.87 / 88
p0 −5.675e−14 ± 5.672e−14
pull
Entries 89
Mean 80.04
Std Dev 0

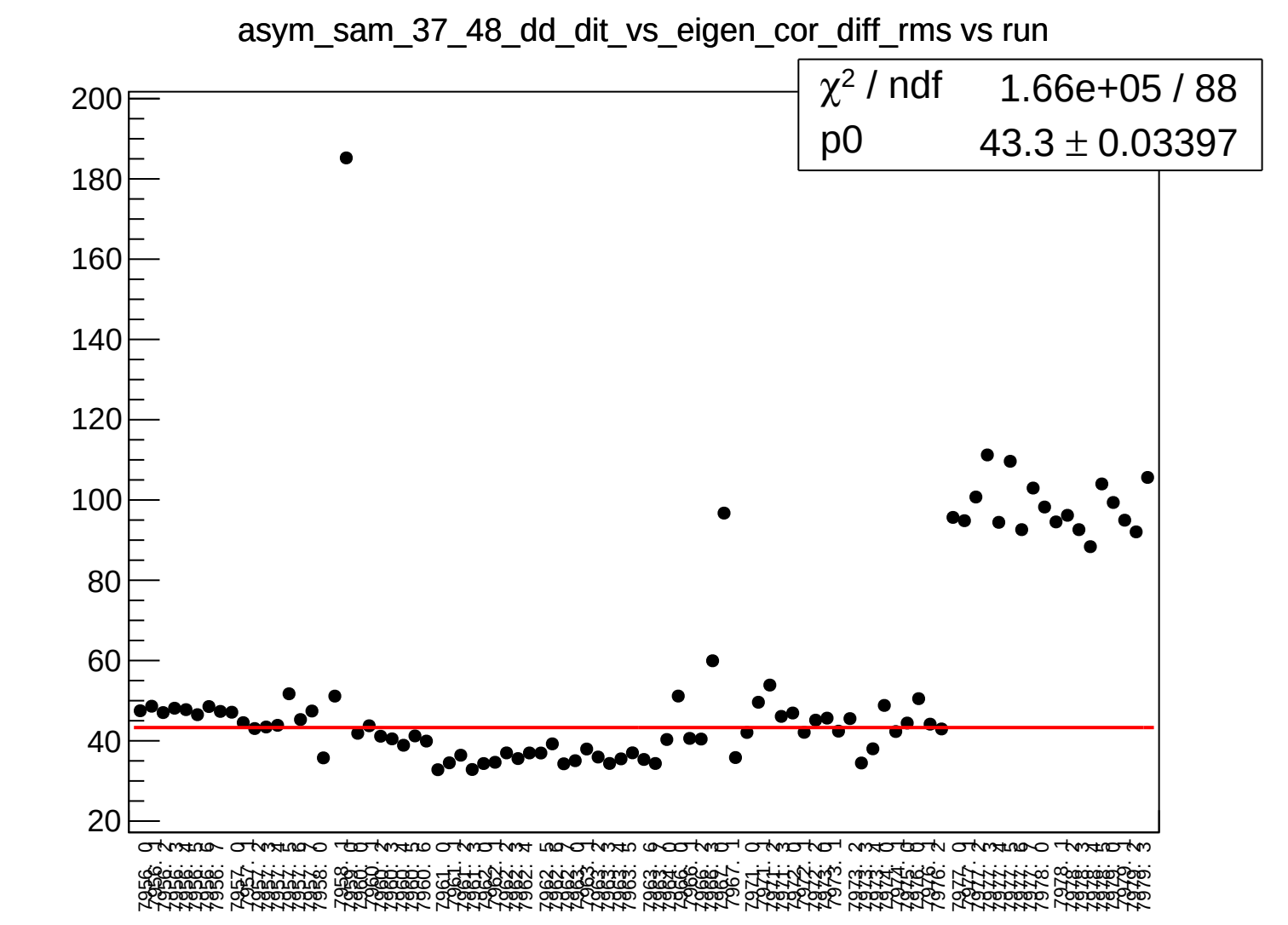

pull1D
Entries 89
Mean −0.09853
Std Dev 0.9773

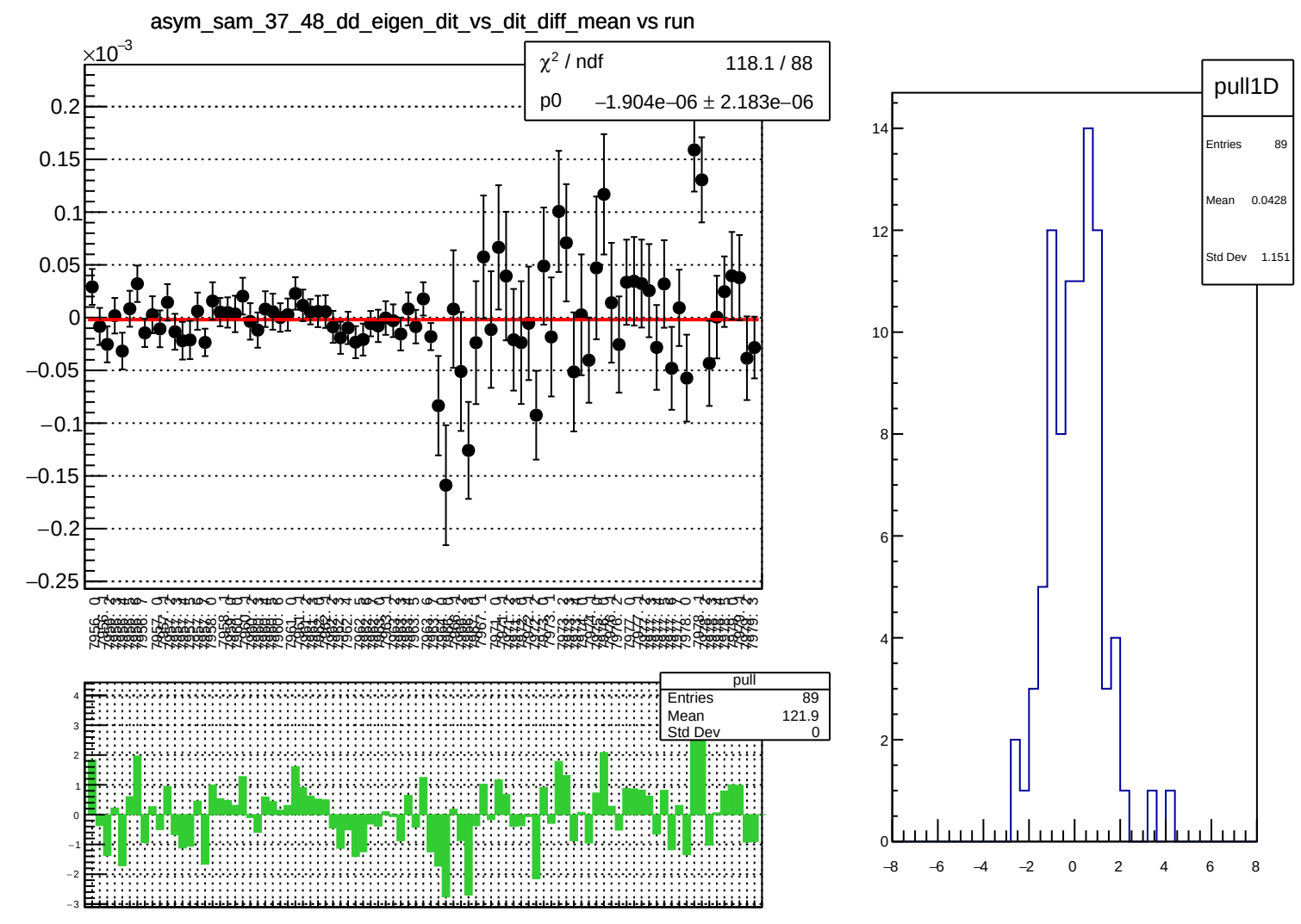

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.868e+05 / 88
p0 3.596e−11 ± 4.011e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

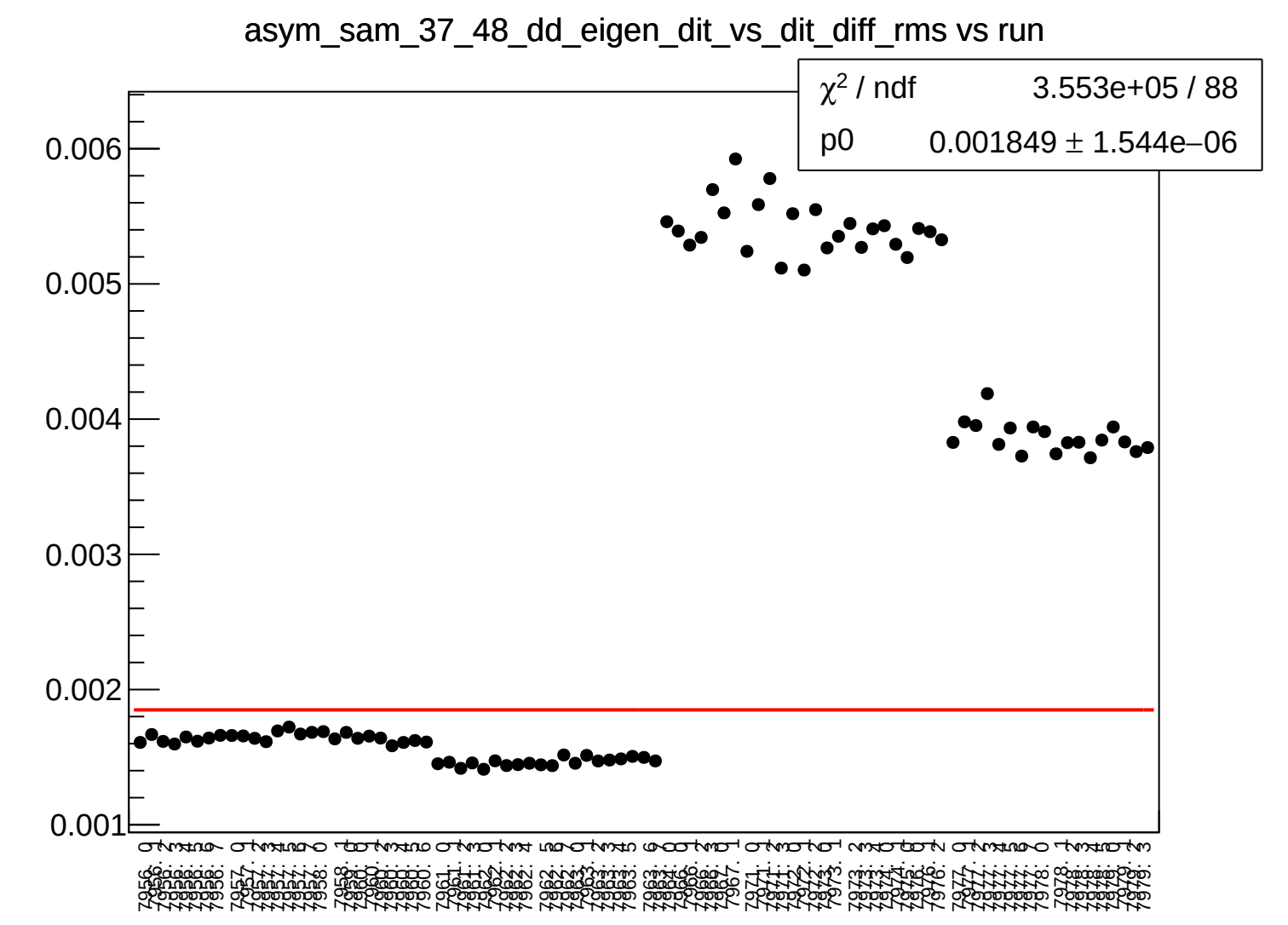

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107 / 88
p0 0.03232 ± 0.04805
pull
Entries 89
Mean 137.6
Std Dev 0
pull1D
Entries 89
Mean −0.06643
Std Dev 1.094

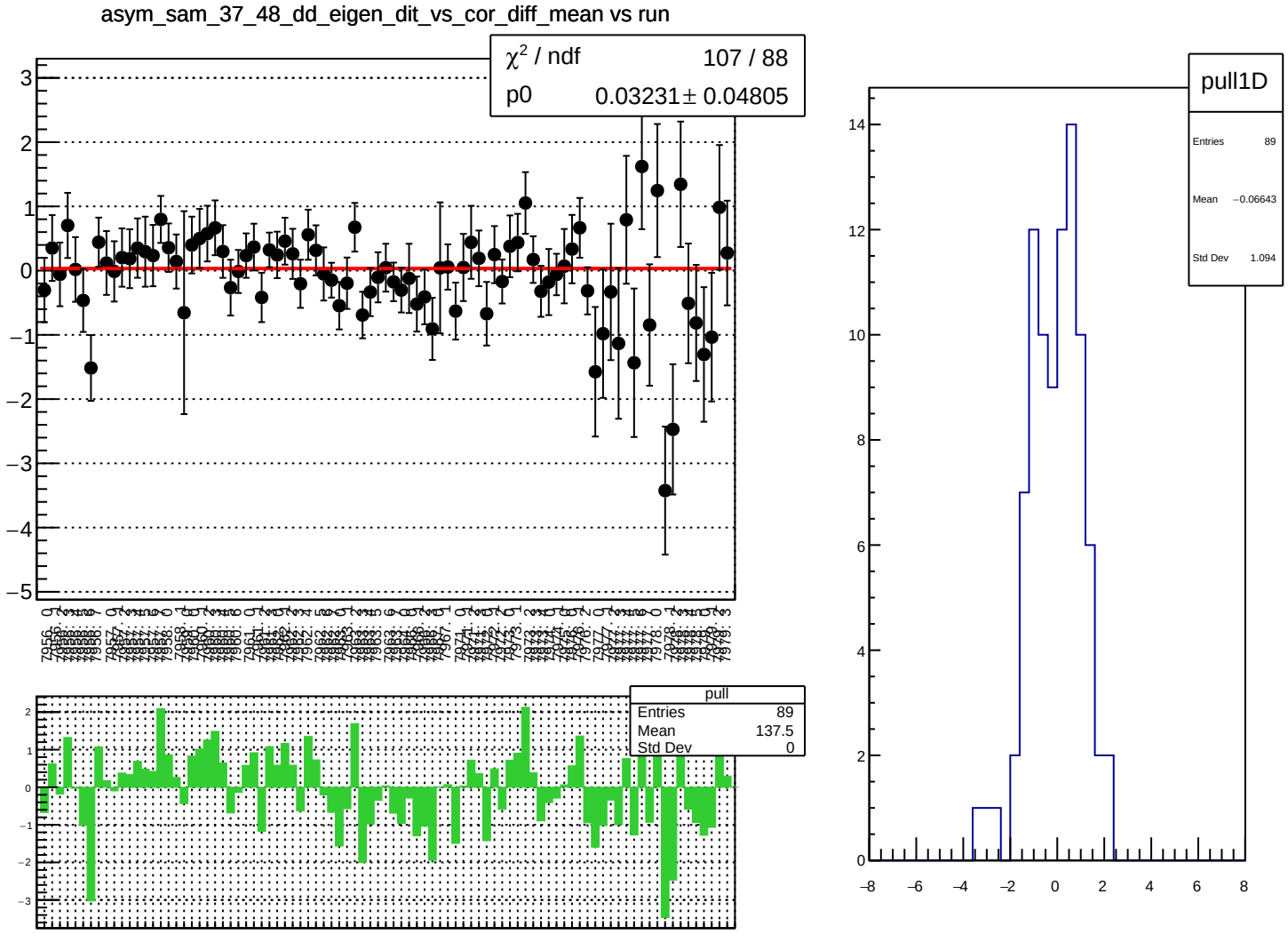

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 88
p0 43.3 ± 0.03397
200
180
160
140
120
100
80
60
40
20

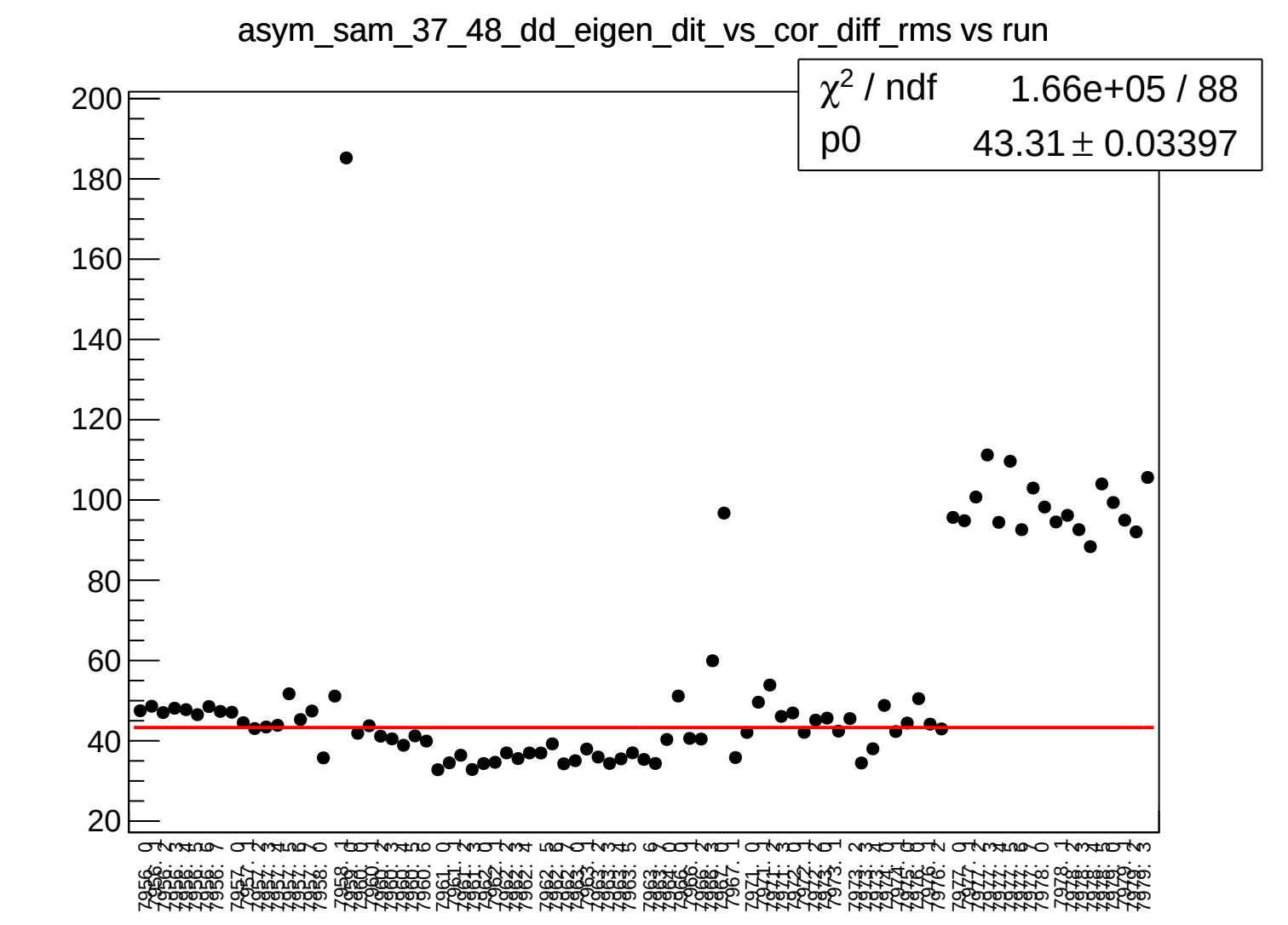

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107 / 88
p0 0.03232 ± 0.04805
pull
Entries 89
Mean 137.6
Std Dev 0
pull1D
Entries 89
Mean −0.06643
Std Dev 1.094

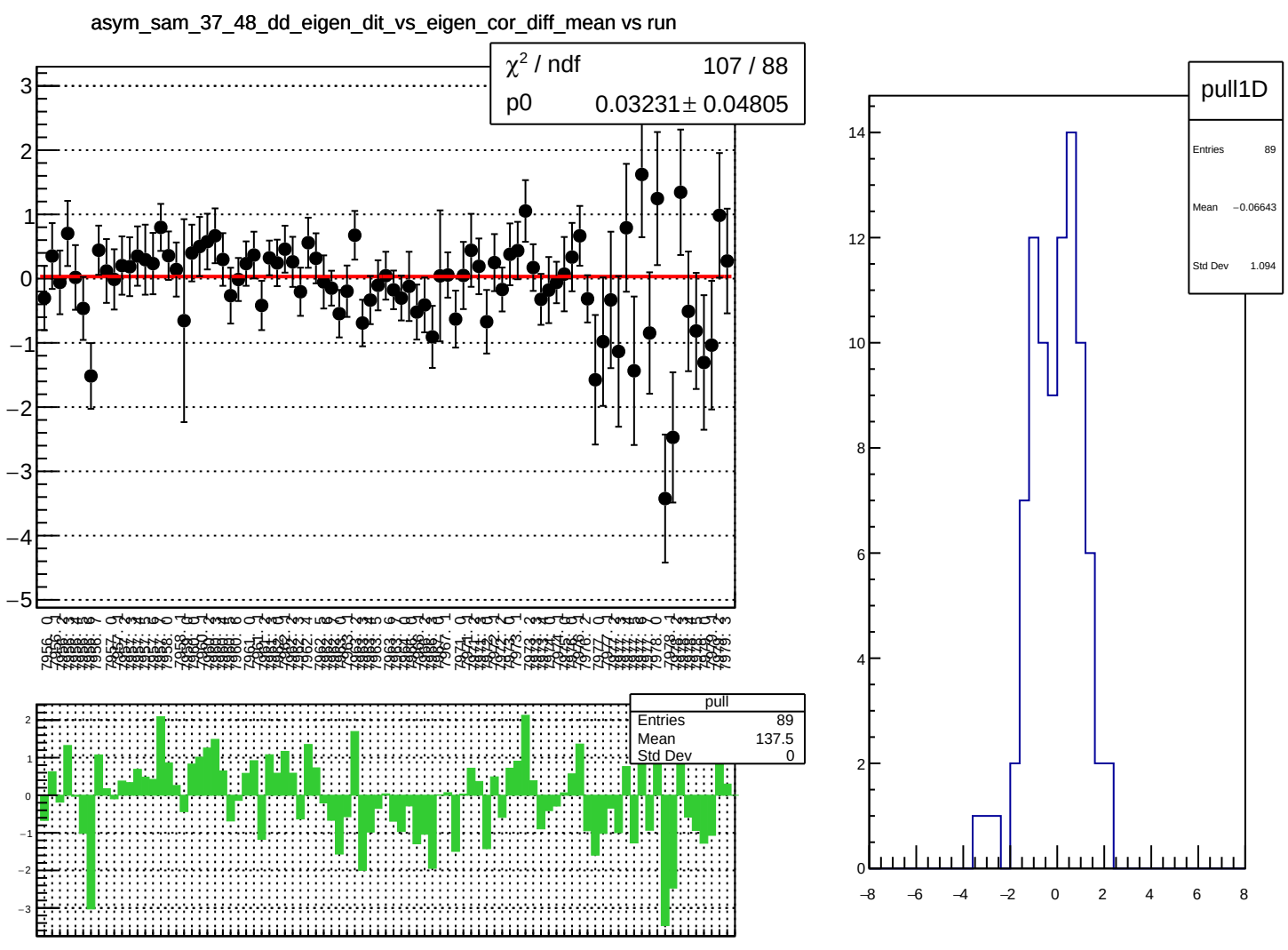

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 88
p0 43.3 ± 0.03397
200
180
160
140
120
100
80
60
40
20

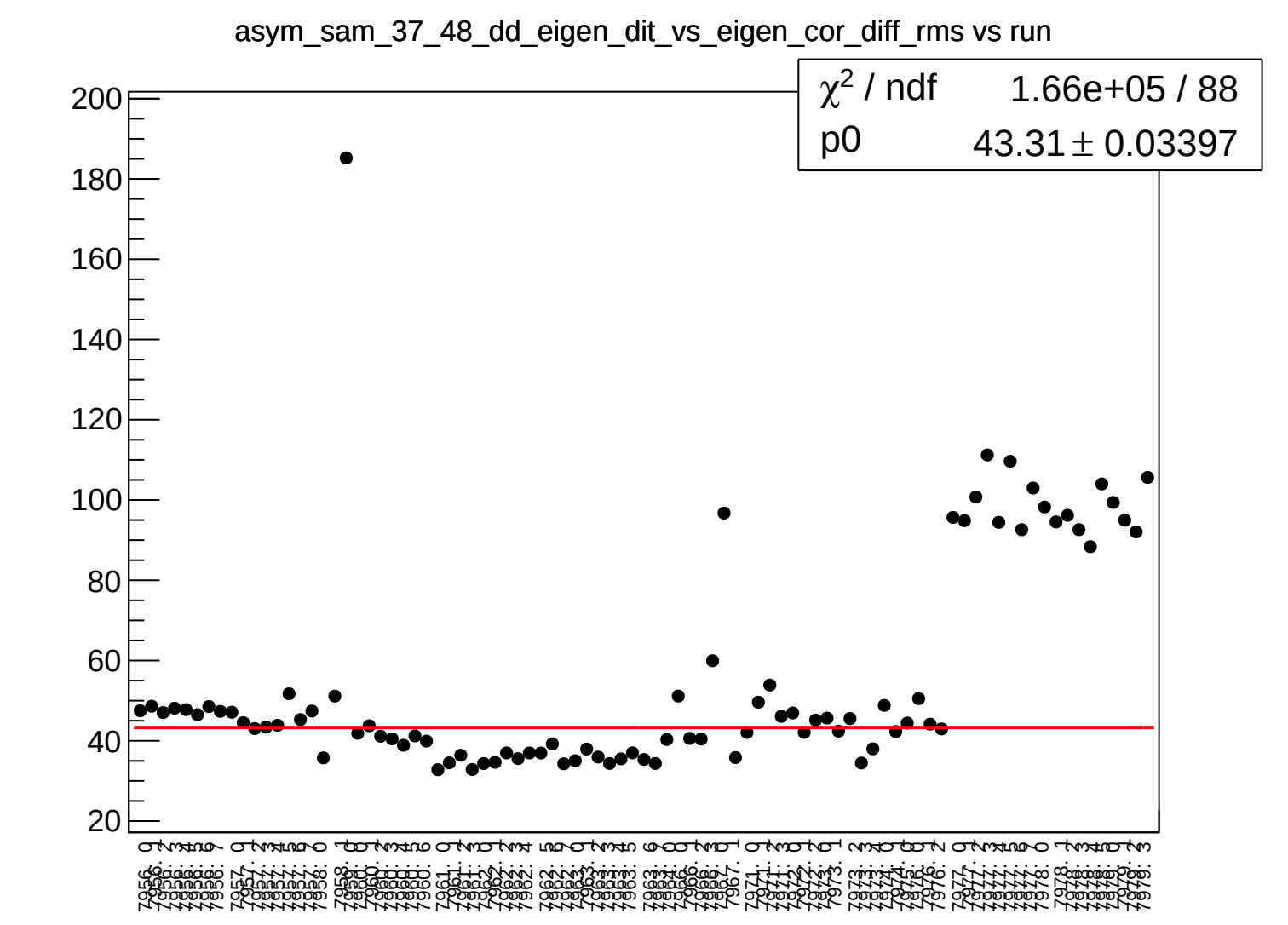

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.1 / 88
p0 −1.904e−06 ± 2.183e−06
pull
Entries 89
Mean 121.9
Std Dev 0
pull1D
Entries 89
Mean 0.0428
Std Dev 1.151

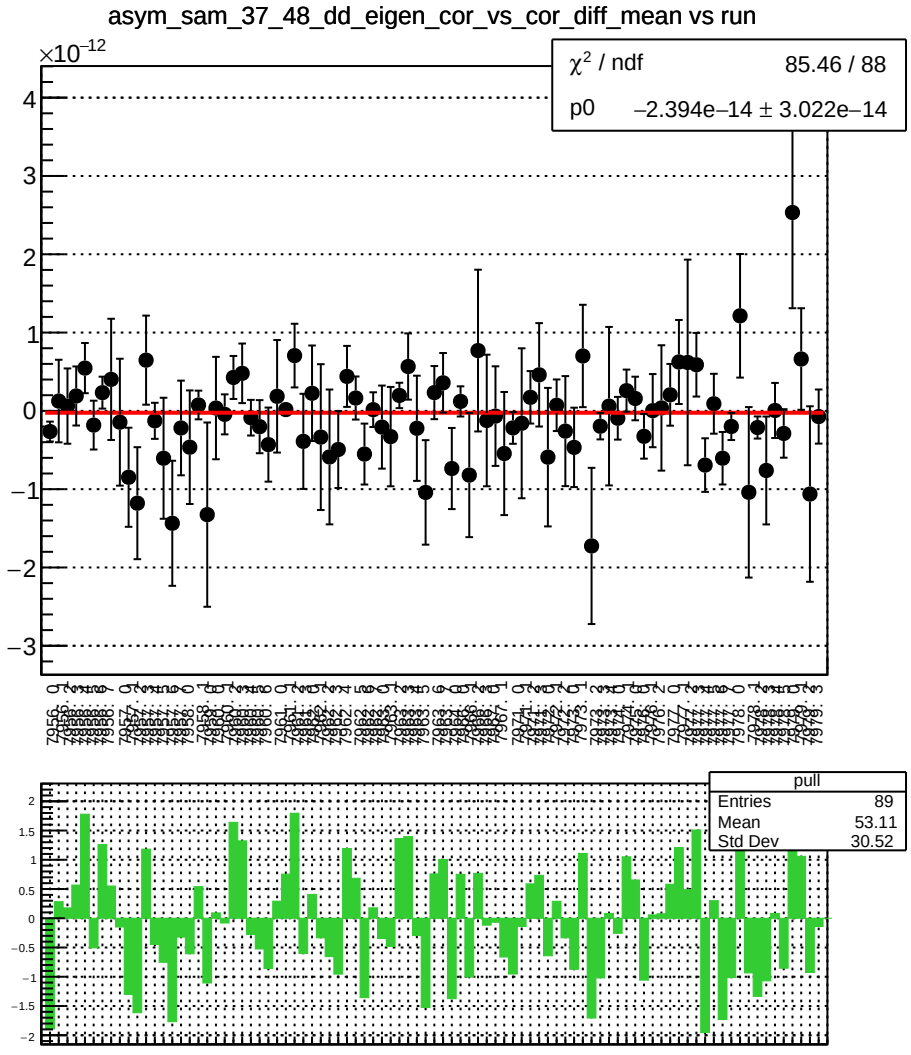

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.553e+05 / 88
p0 0.001849 ± 1.544e−06
0.006
0.005
0.004
0.003
0.002
0.001

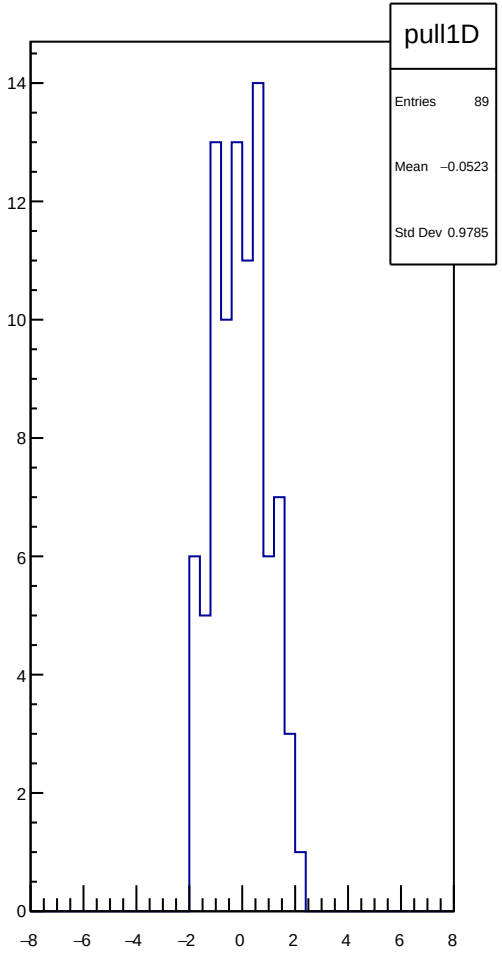

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107 / 88
p0 0.03231 ± 0.04805
pull
Entries 89
Mean 137.5
Std Dev 0
pull1D
Entries 89
Mean −0.06643
Std Dev 1.094

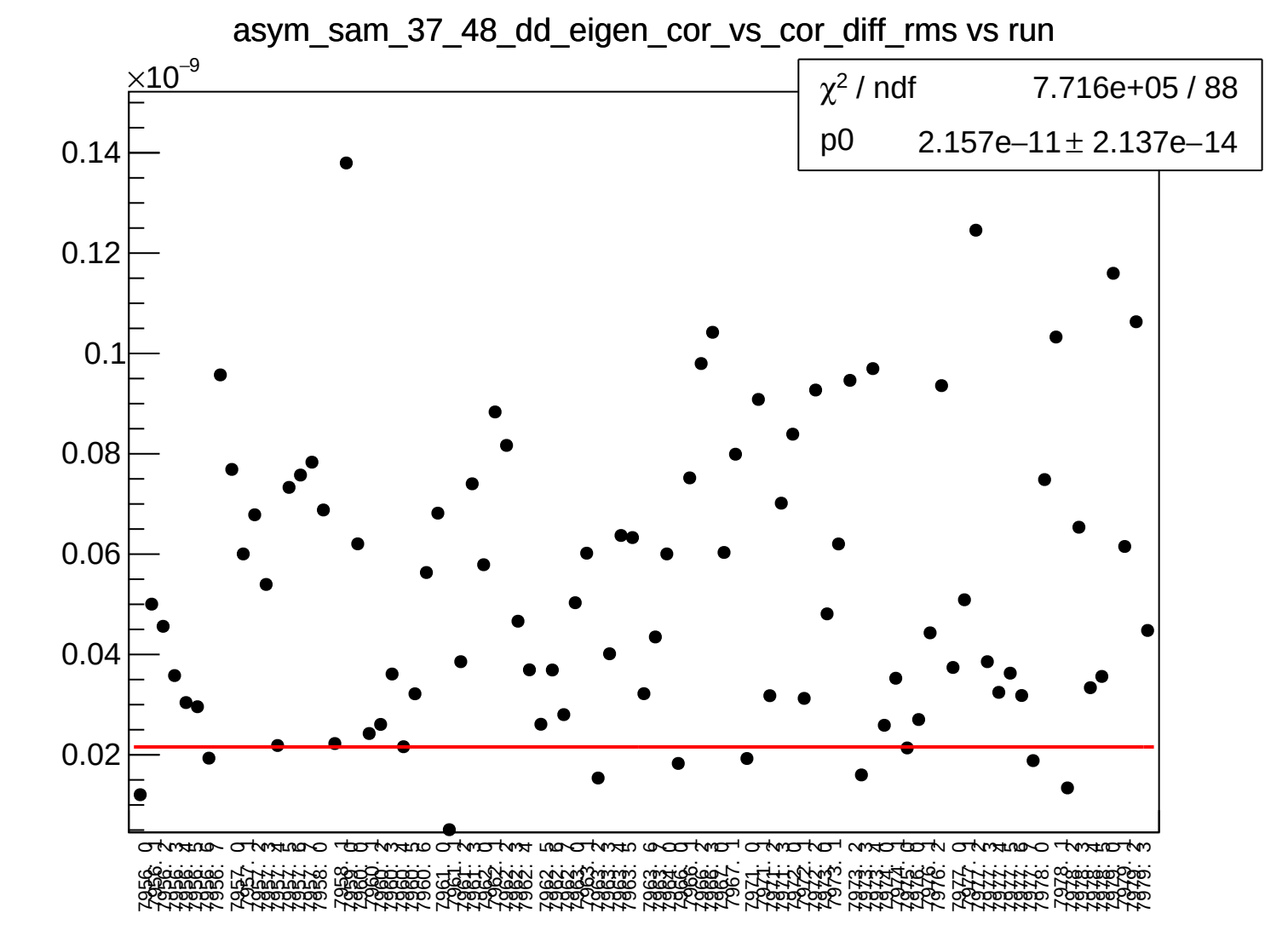

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 88
p0 43.31 ± 0.03397
200
180
160
140
120
100
80
60
40
20

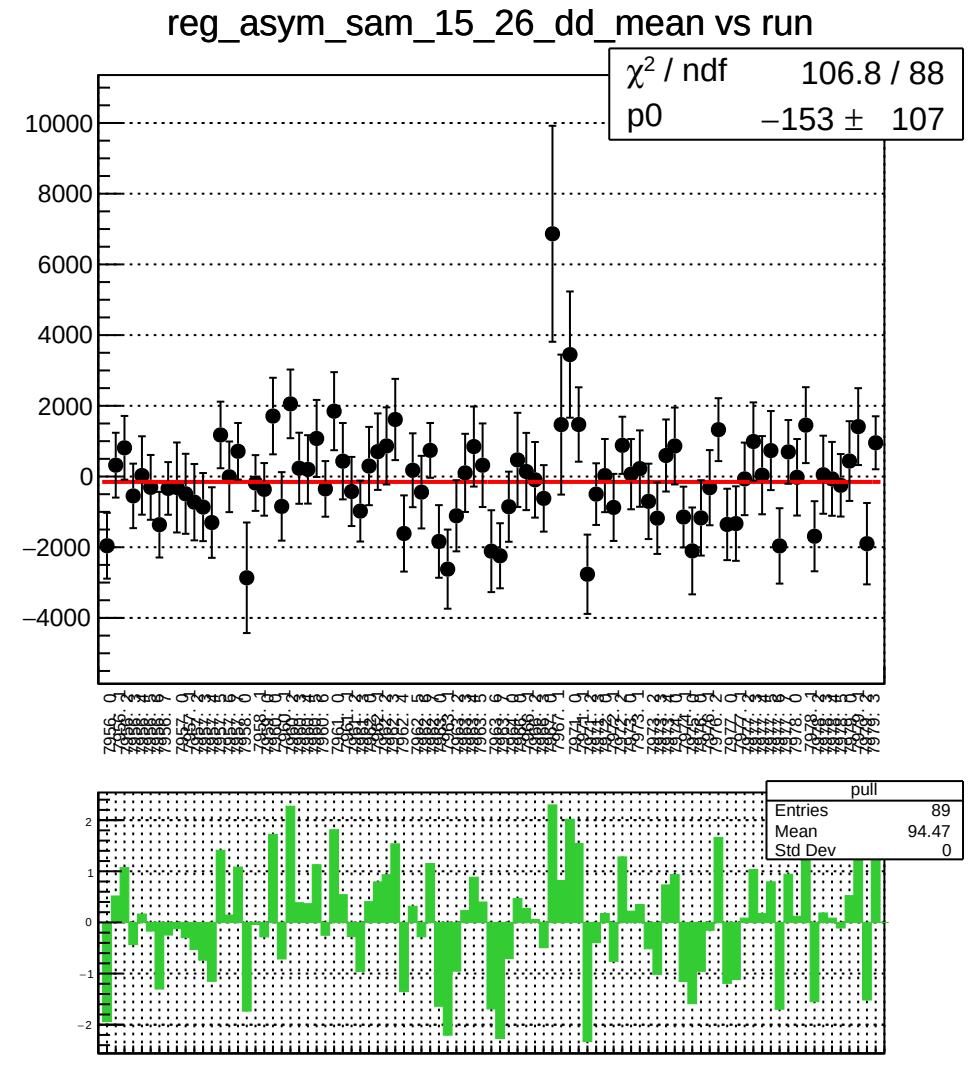

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107 / 88
p0 0.03231 ± 0.04805
pull
Entries 89
Mean 137.5
Std Dev 0
pull1D
Entries 89
Mean −0.06643
Std Dev 1.094

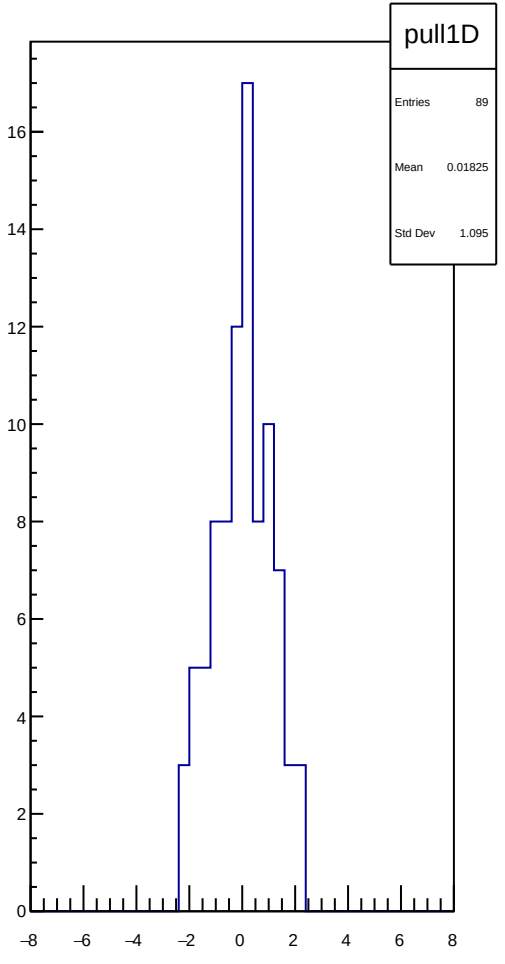

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 88
p0 43.31 ± 0.03397
200
180
160
140
120
100
80
60
40
20

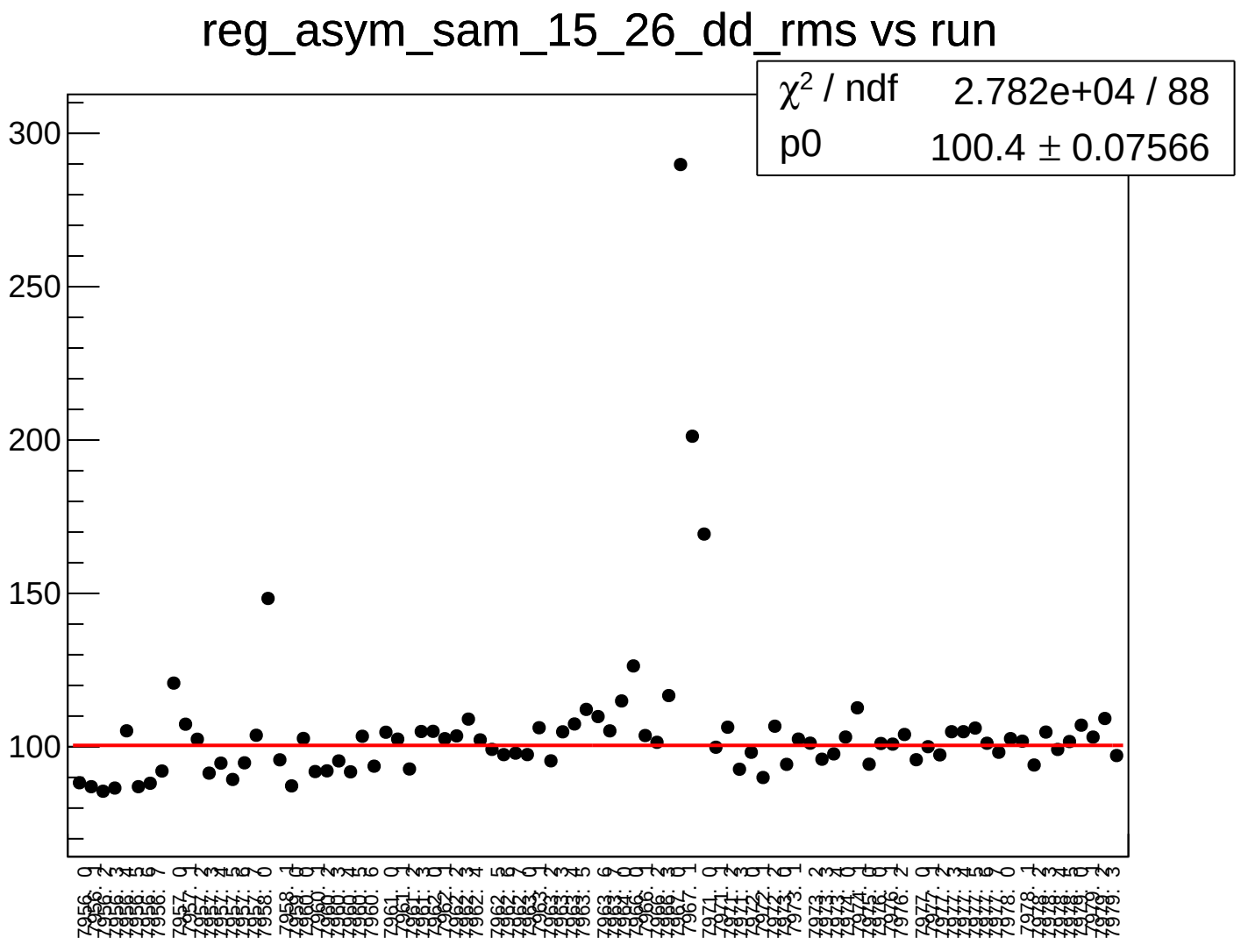

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.46 / 88
p0 −2.394e−14 ± 3.022e−14
pull
Entries 89
Mean 53.11
Std Dev 30.52

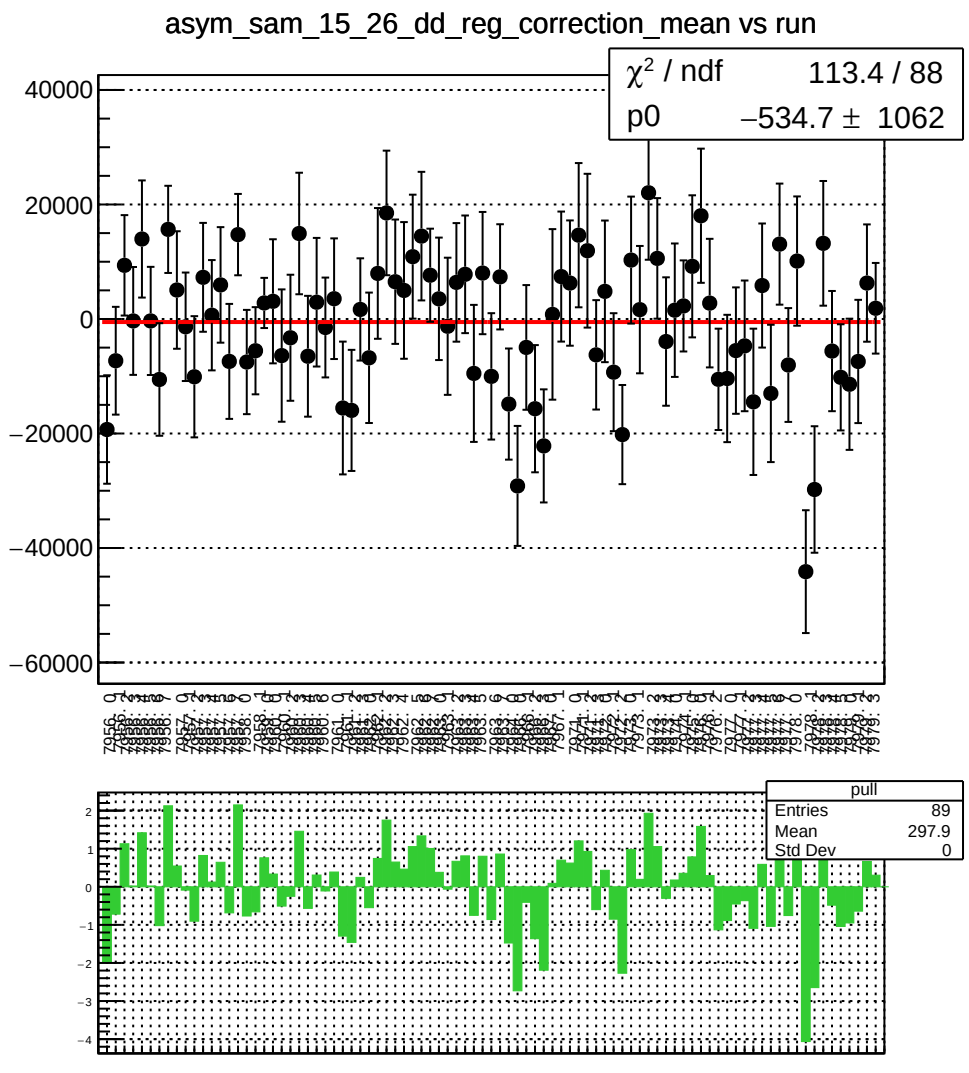

pull1D
Entries 89
Mean −0.0523
Std Dev 0.9785

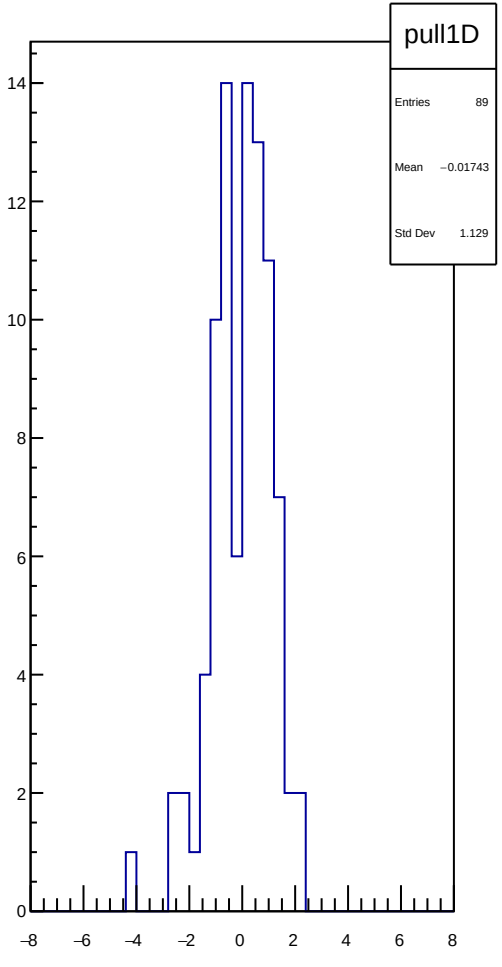

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.716e+05 / 88
p0 2.157e−11 ± 2.137e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

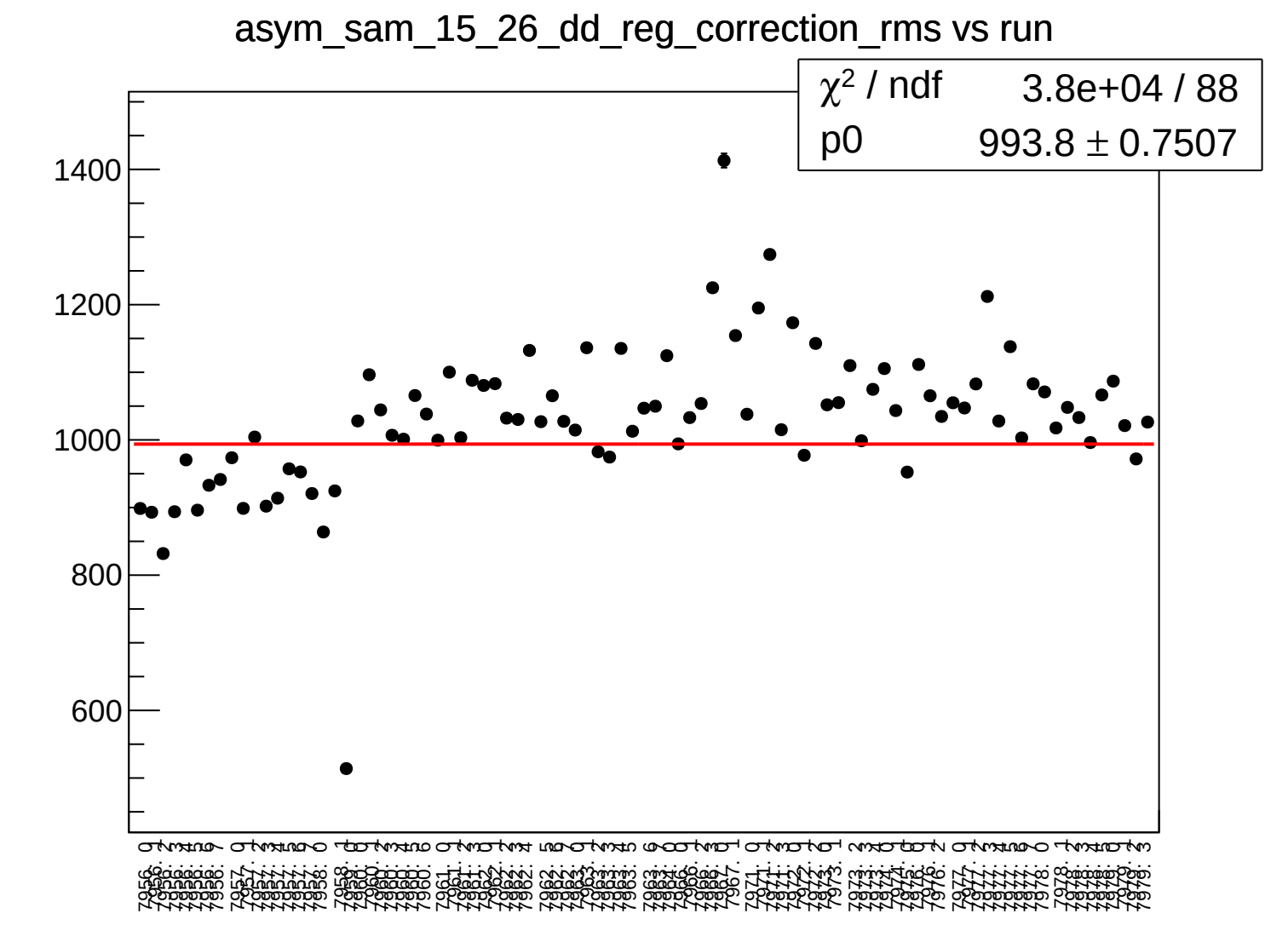

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 106.8 / 88
p0 −153 ± 107
pull
Entries 89
Mean 94.47
Std Dev 0

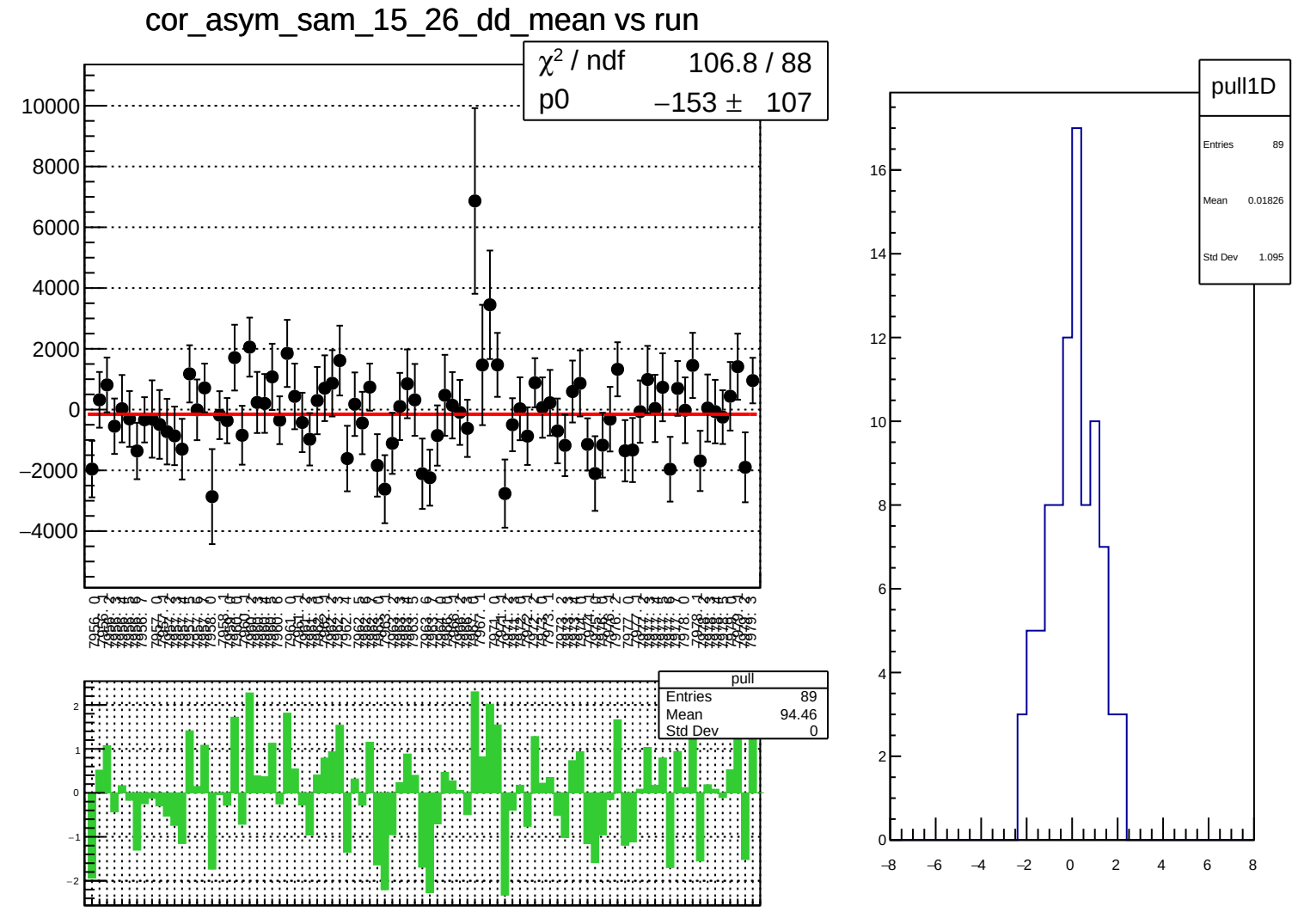

pull1D
Entries 89
Mean 0.01825
Std Dev 1.095

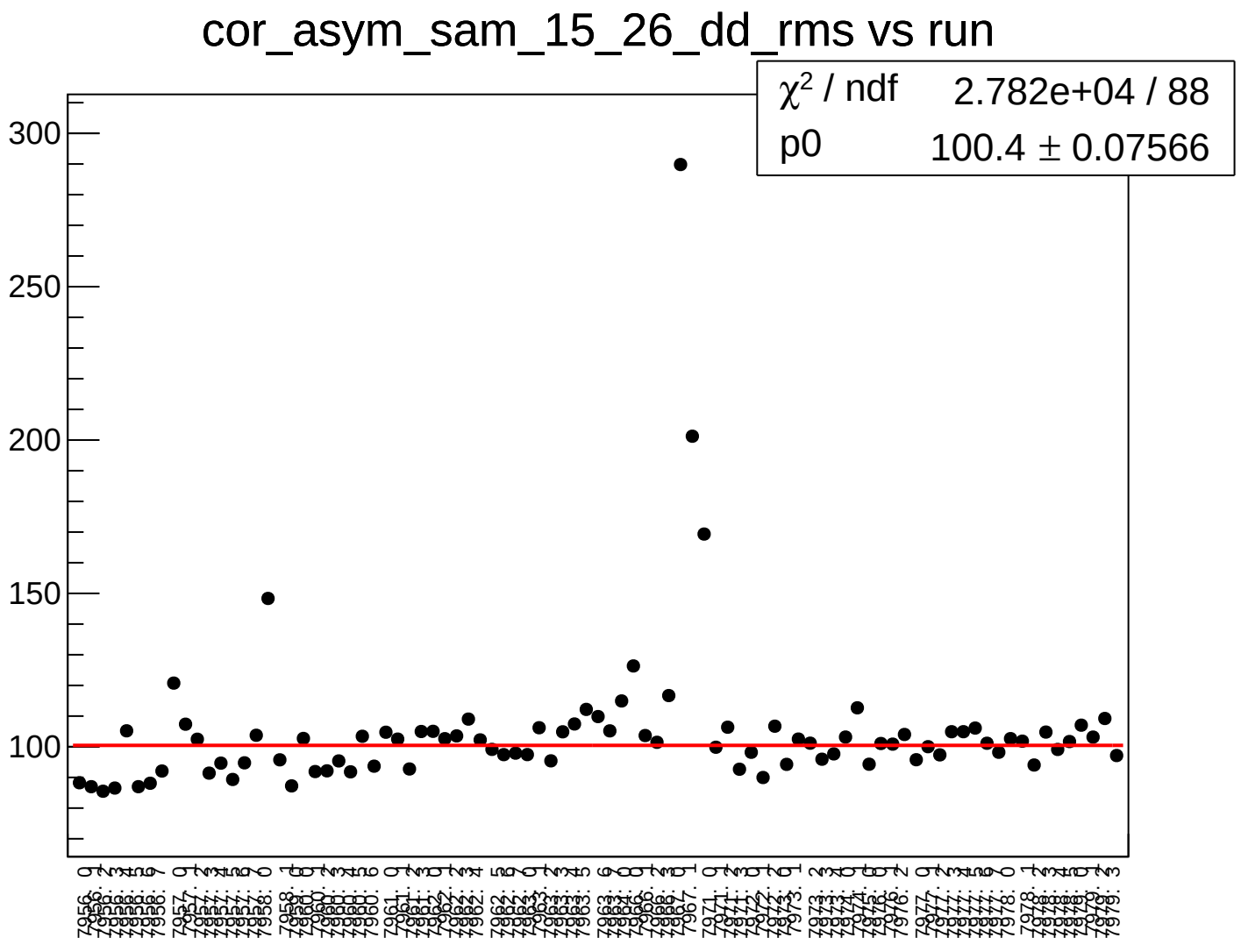

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.782e+04 / 88
p0 100.4 ± 0.07566
300
250
200
150
100

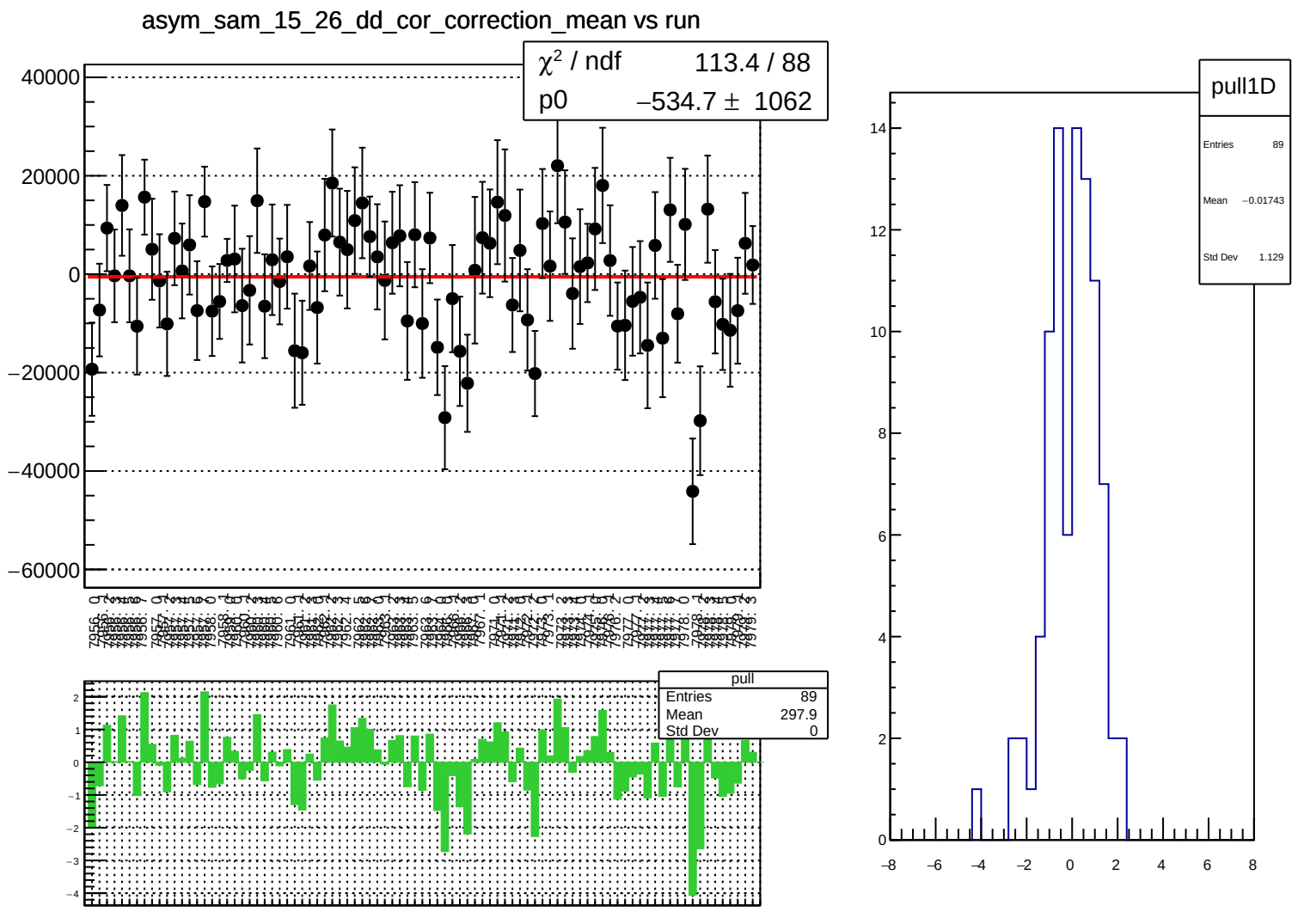

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 113.4 / 88
p0 −534.7 ± 1062
pull
Entries 89
Mean 297.9
Std Dev 0

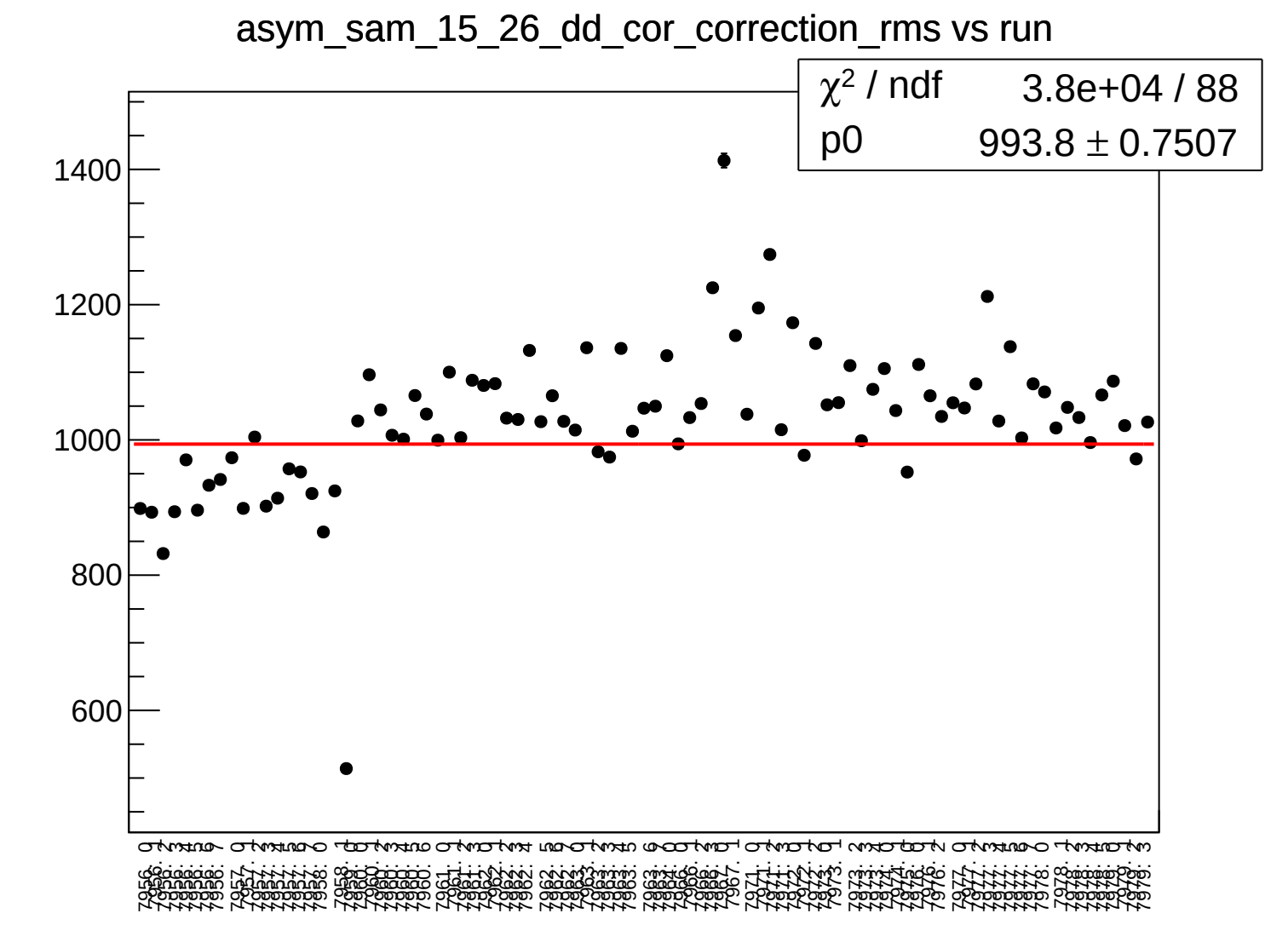

pull1D
Entries 89
Mean −0.01743
Std Dev 1.129

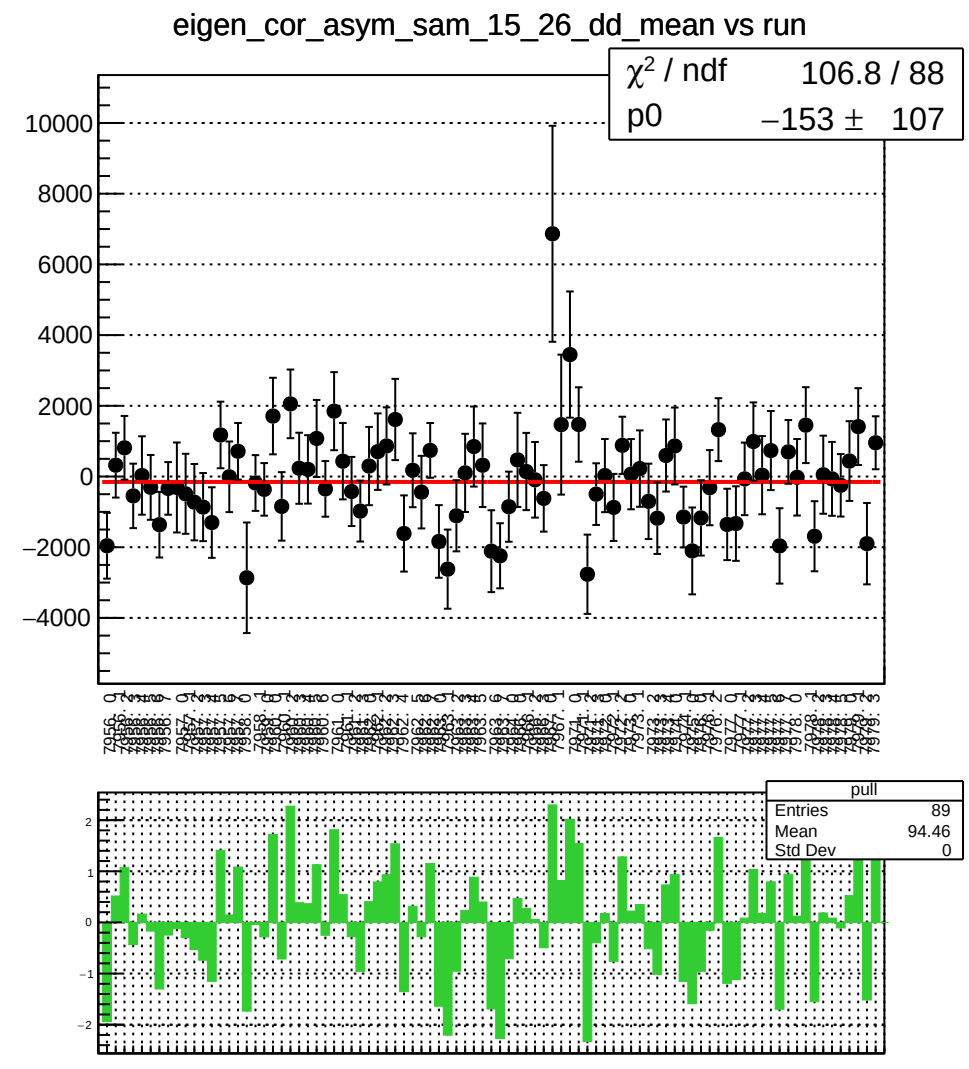

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 3.8e+04 / 88
p0 993.8 ± 0.7507
1400
1200
1000
800
600

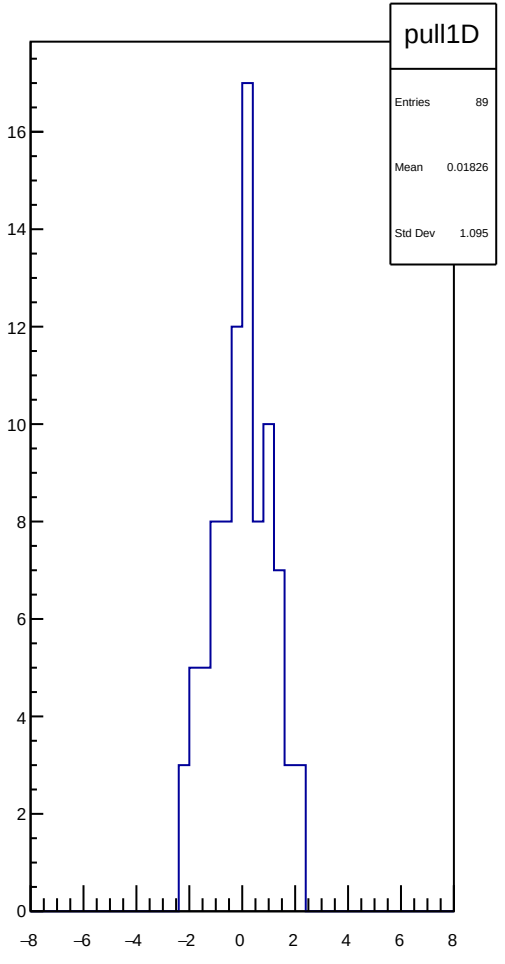

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 106.8 / 88
p0 −153 ± 107
pull
Entries 89
Mean 94.46
Std Dev 0
pull1D
Entries 89
Mean 0.01826
Std Dev 1.095

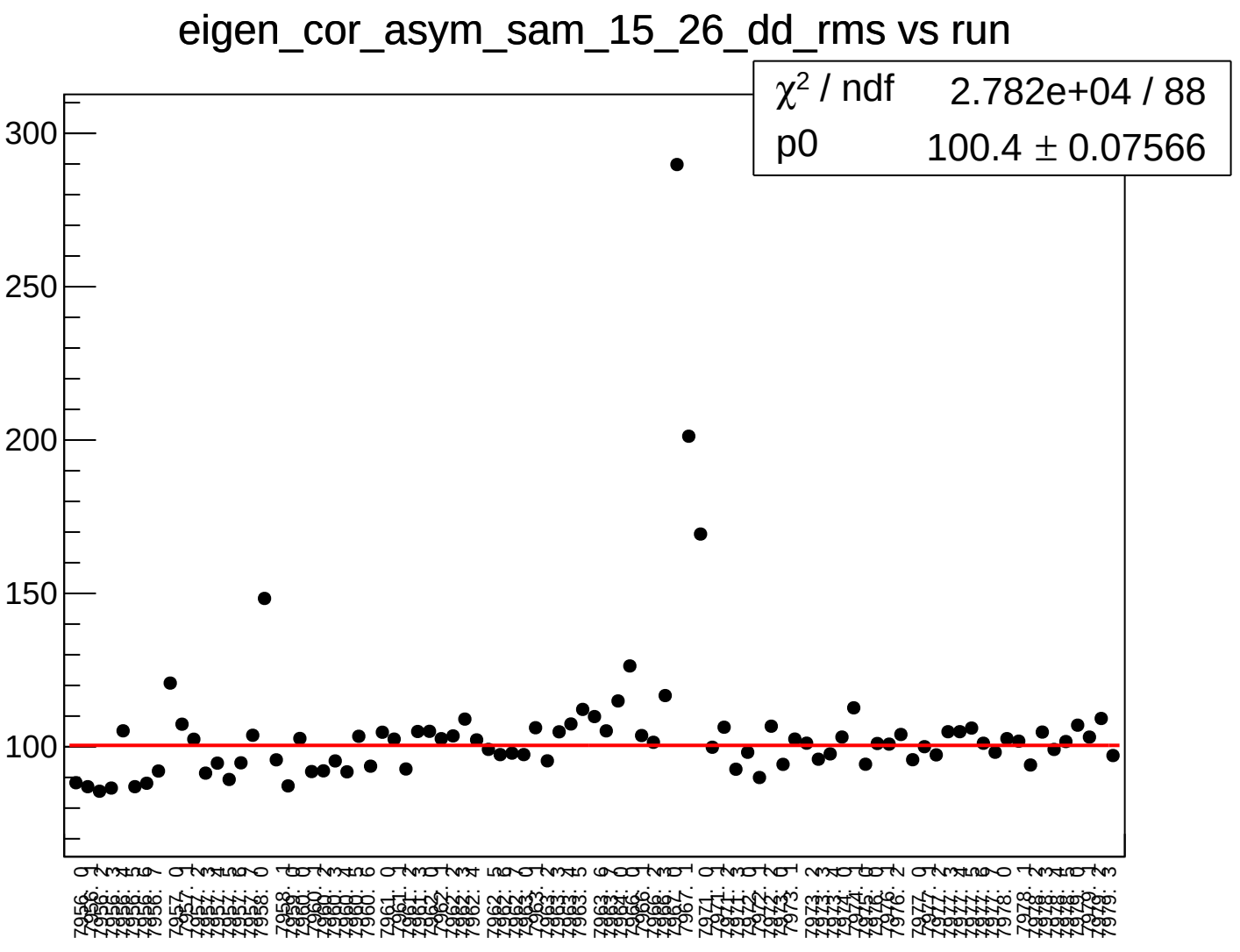

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.782e+04 / 88
p0 100.4 ± 0.07566
300
250
200
150
100

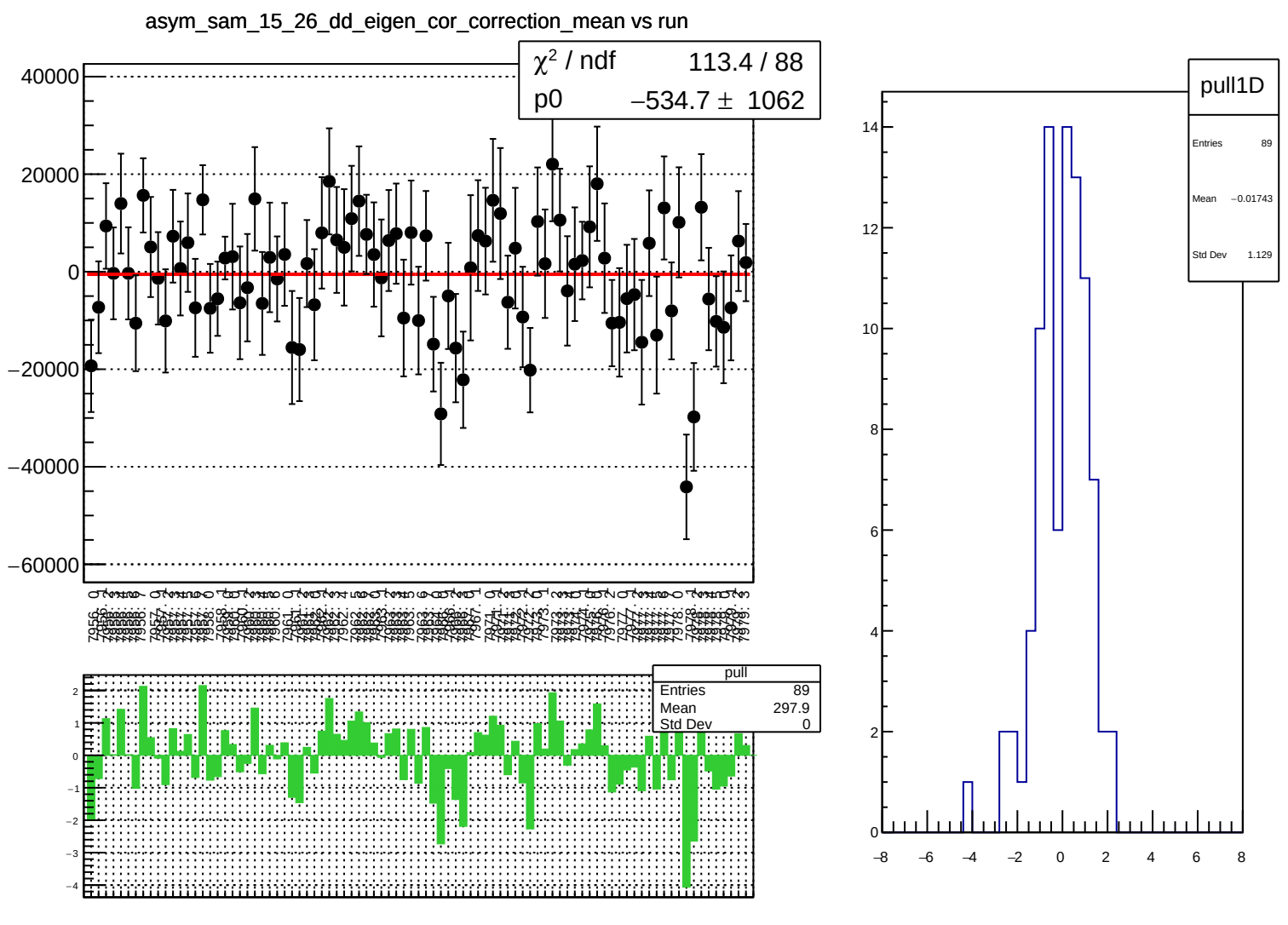

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 113.4 / 88
p0 −534.7 ± 1062
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 297.9
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean −0.01743
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

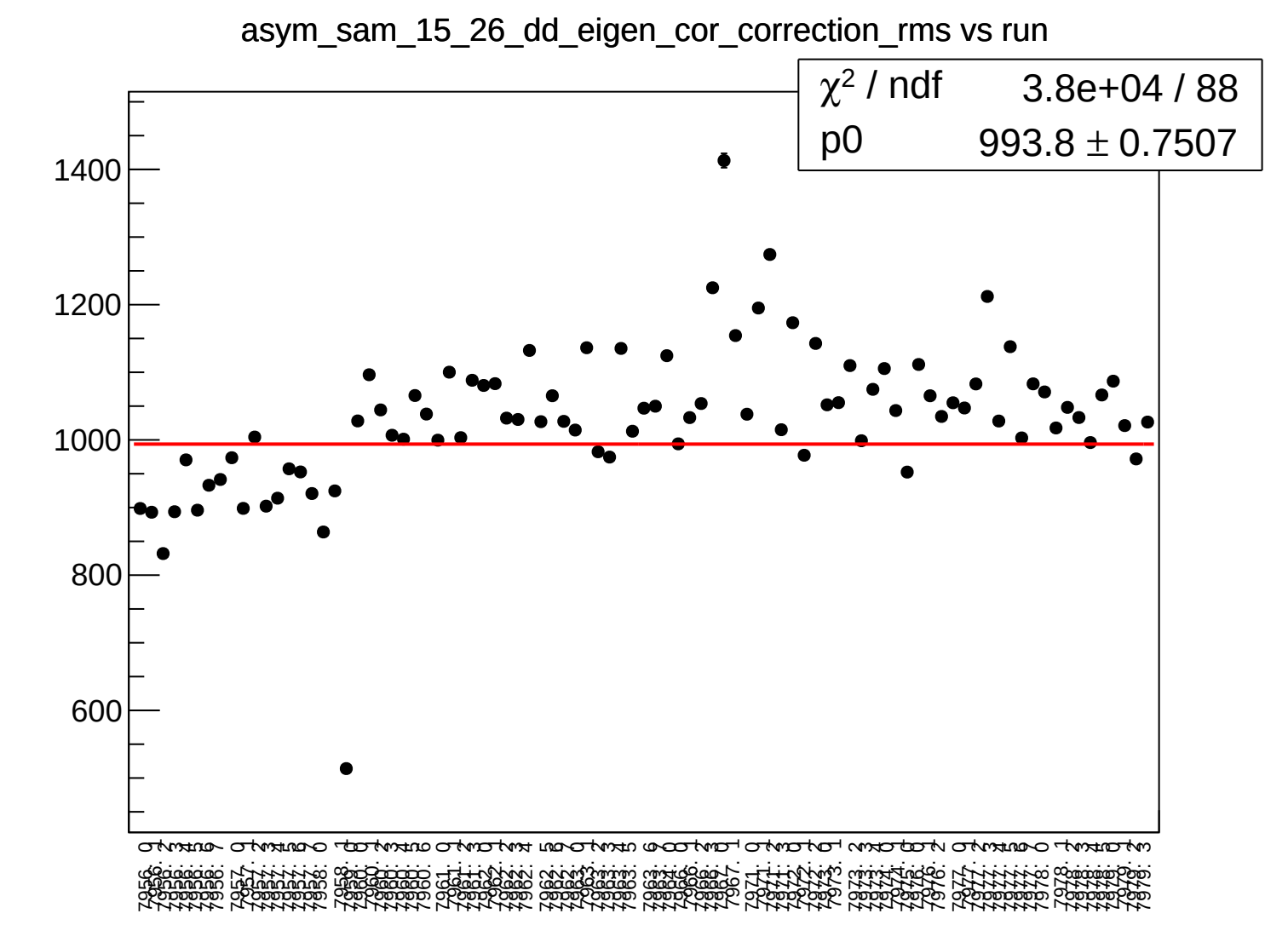

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 3.8e+04 / 88
p0 993.8 ± 0.7507
1400
1200
1000
800
600

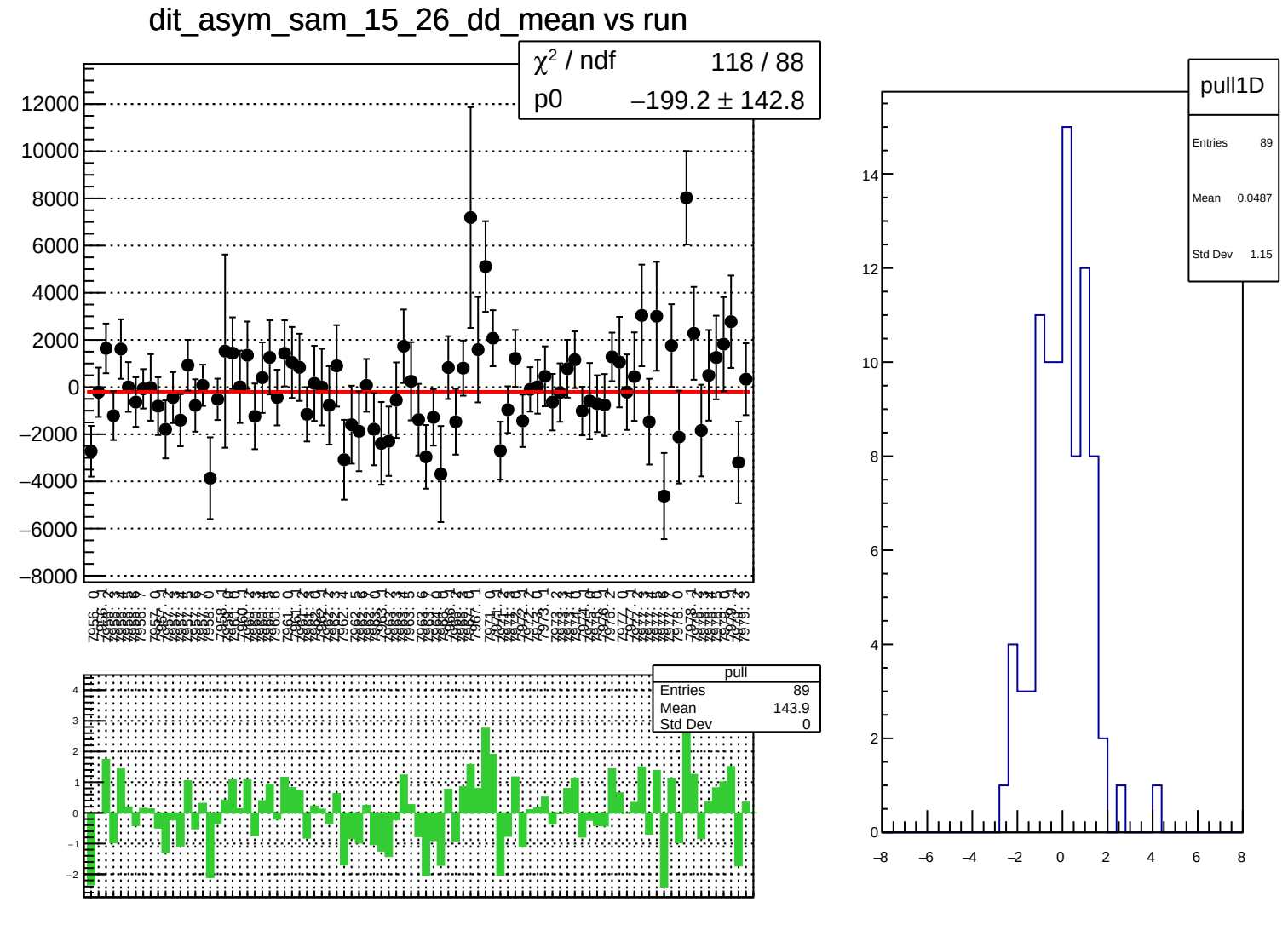

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 106.8 / 88
p0 −153 ± 107
10000
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 94.46
Std Dev 0
2
1
0
−1
−2

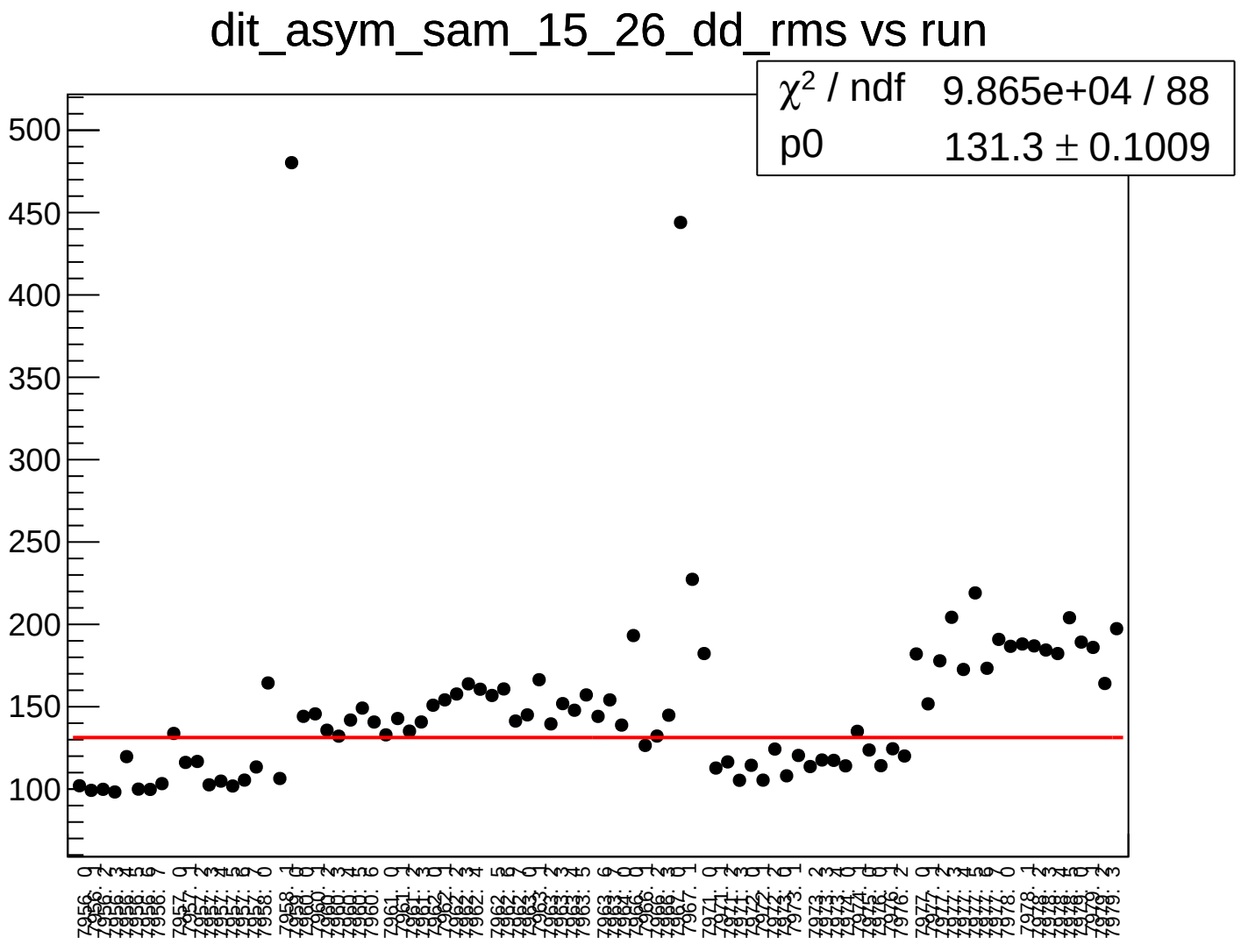

pull1D
Entries 89
Mean 0.01826
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

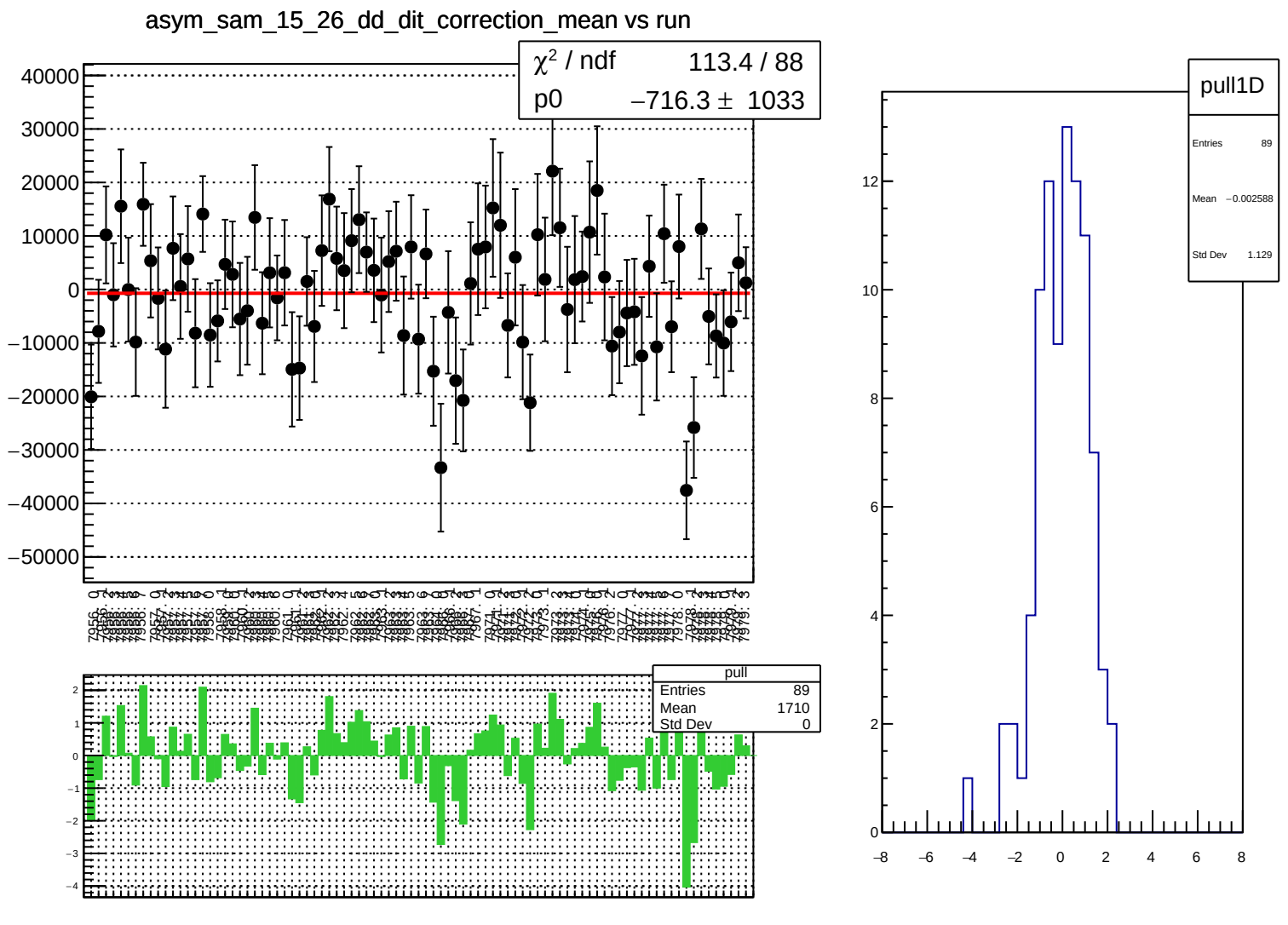

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.782e+04 / 88
p0 100.4 ± 0.07566
300
250
200
150
100

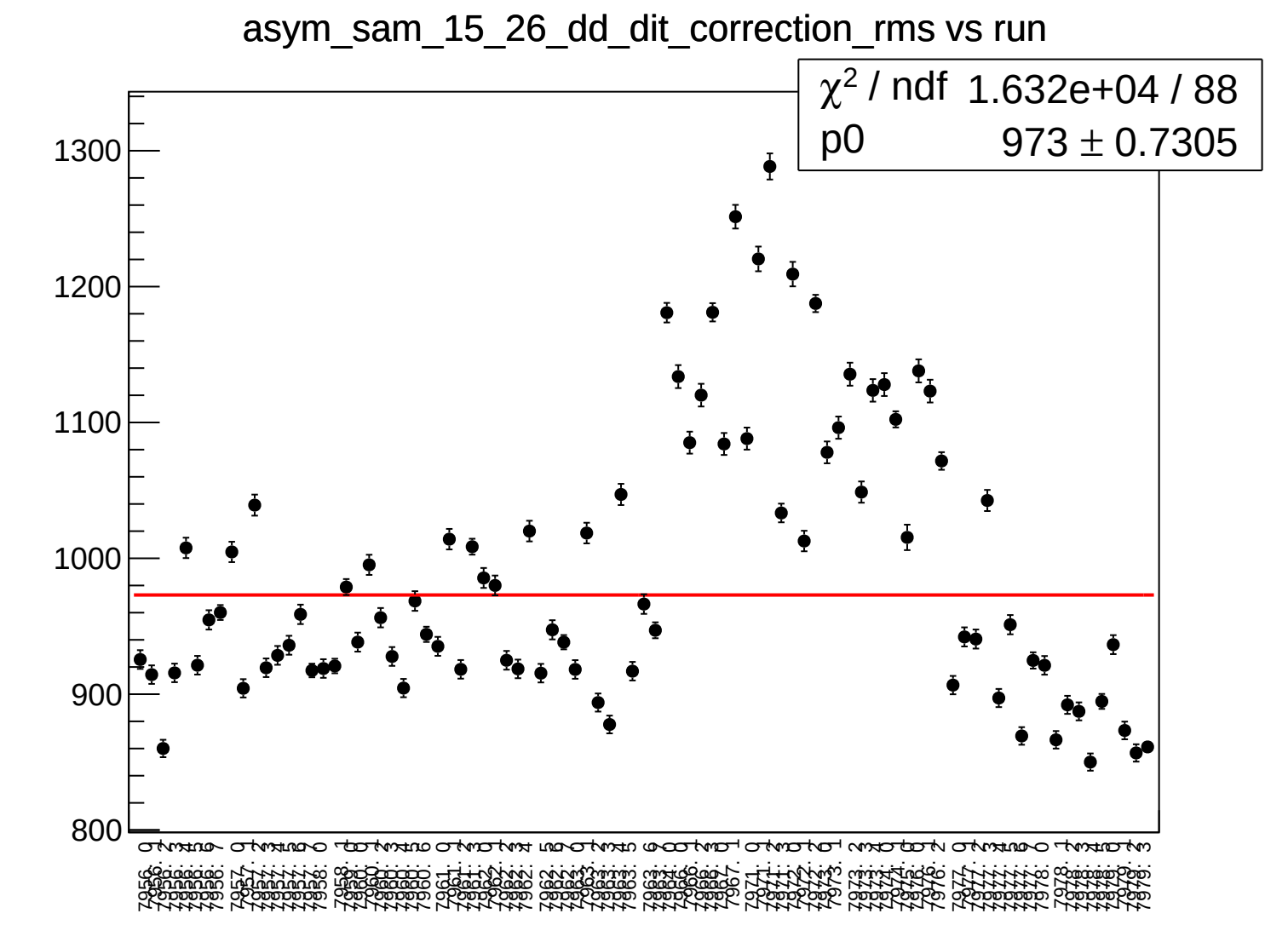

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 113.4 / 88
p0 −534.7 ± 1062
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 297.9
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean −0.01743
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

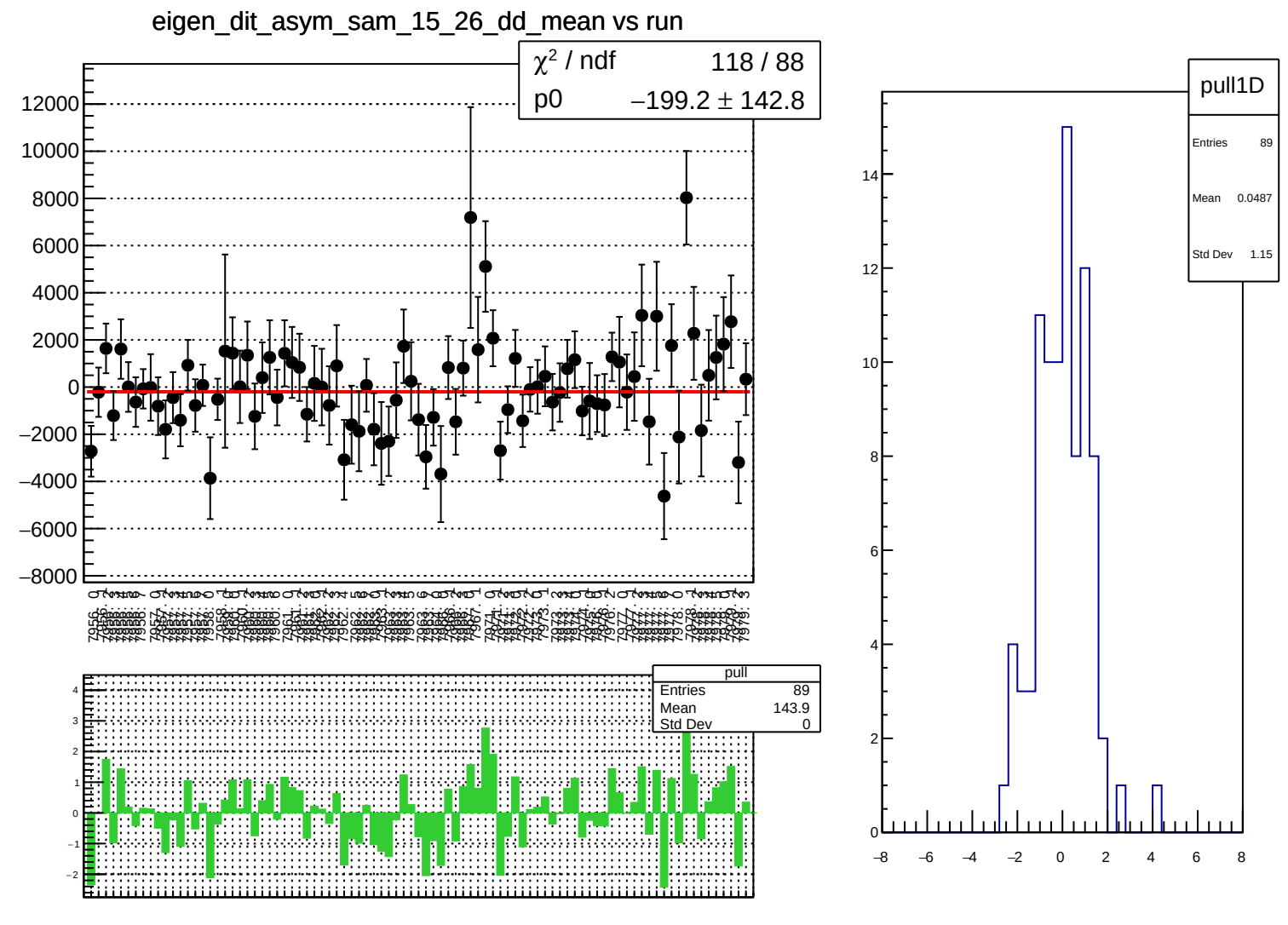

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.8e+04 / 88
p0 993.8 ± 0.7507
1400
1200
1000
800
600

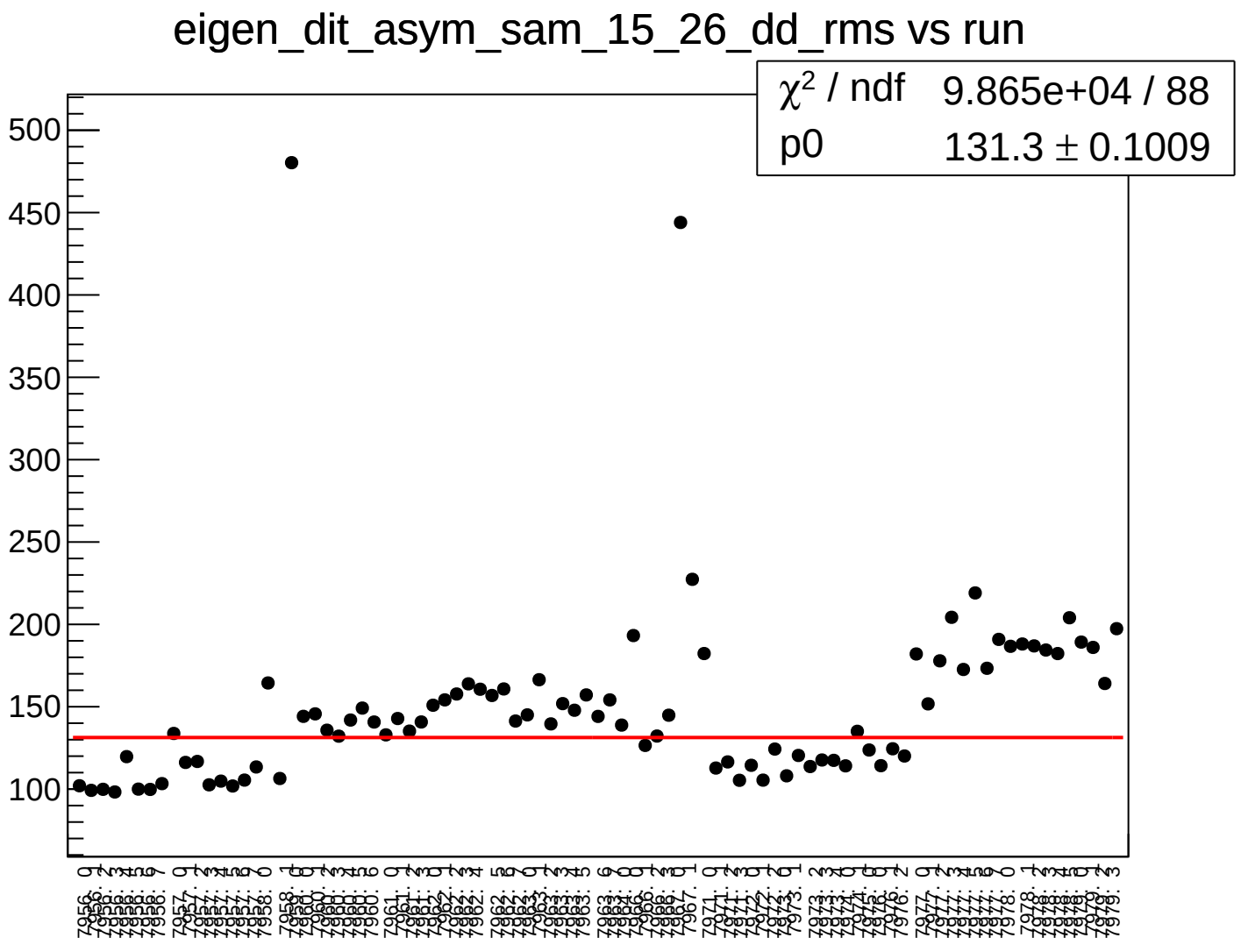

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 118 / 88
p0 −199.2 ± 142.8
pull
Entries 89
Mean 143.9
Std Dev 0
pull1D
Entries 89
Mean 0.0487
Std Dev 1.15

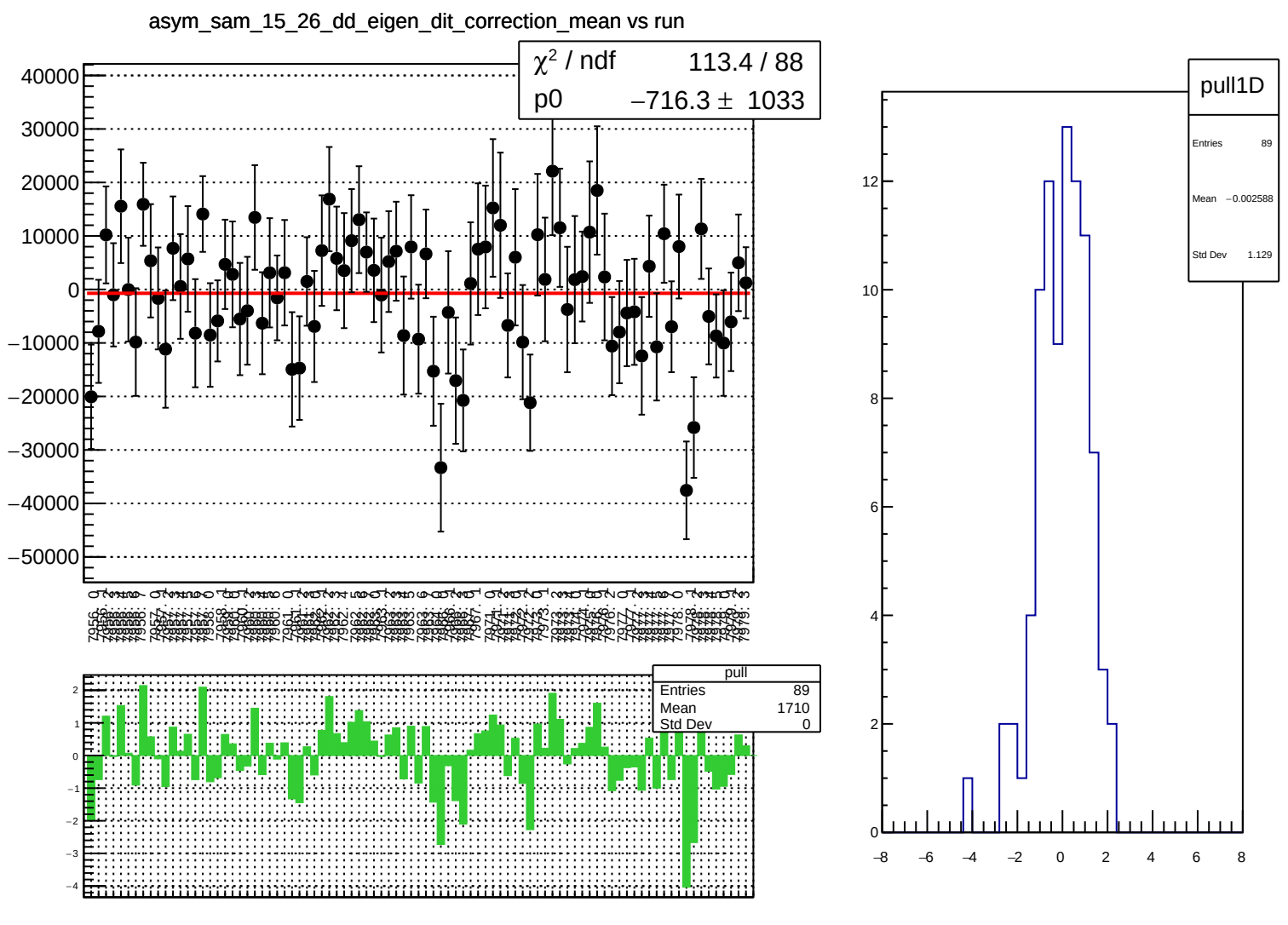

dit_asym_sam_15_26_dd_rms vs run
$\chi^2$ / ndf 9.865e+04 / 88
p0 131.3 ± 0.1009
500
450
400
350
300
250
200
150
100

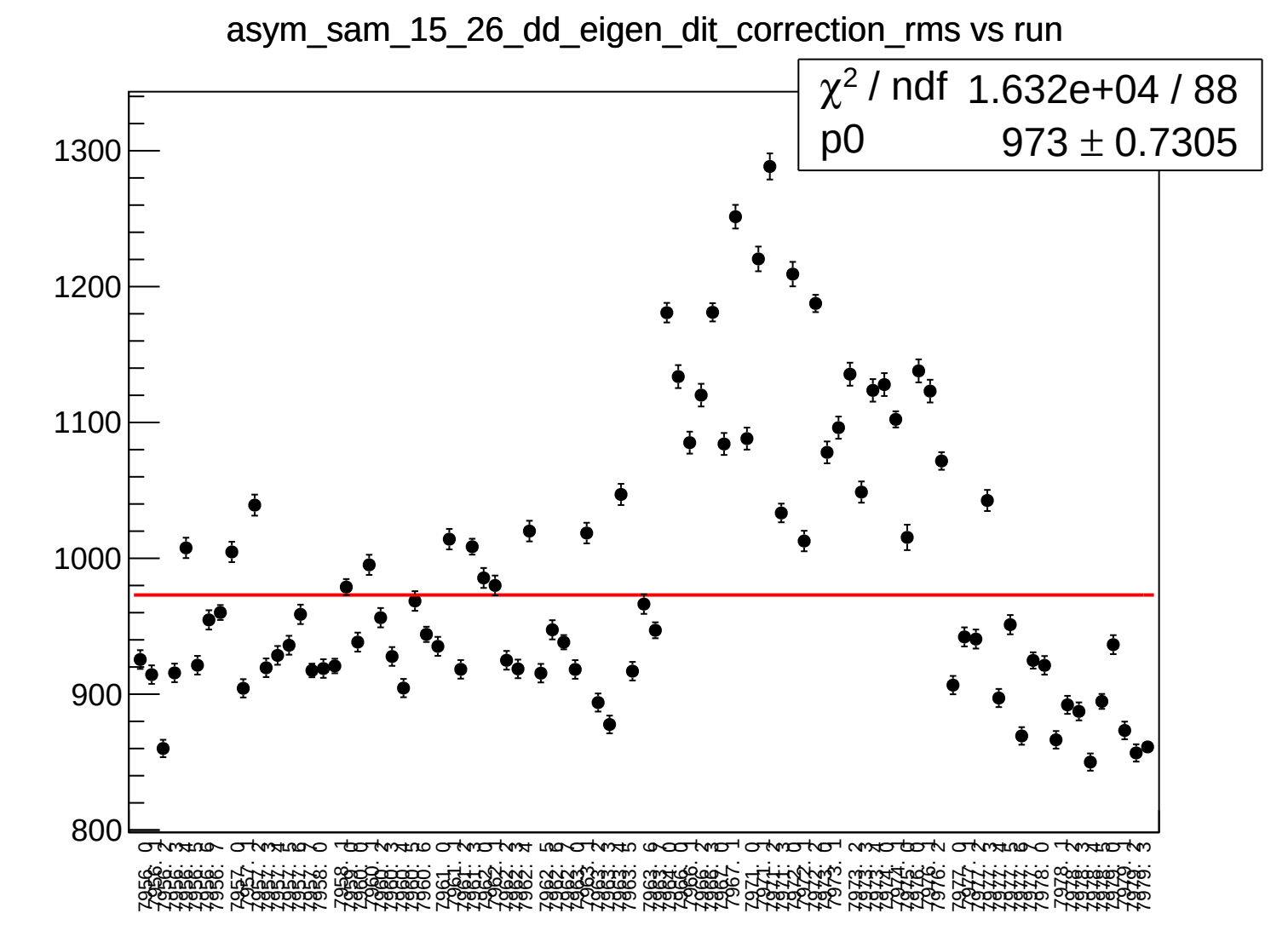

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 113.4 / 88
p0 −716.3 ± 1033
pull
Entries 89
Mean 1710
Std Dev 0
pull1D
Entries 89
Mean −0.002588
Std Dev 1.129

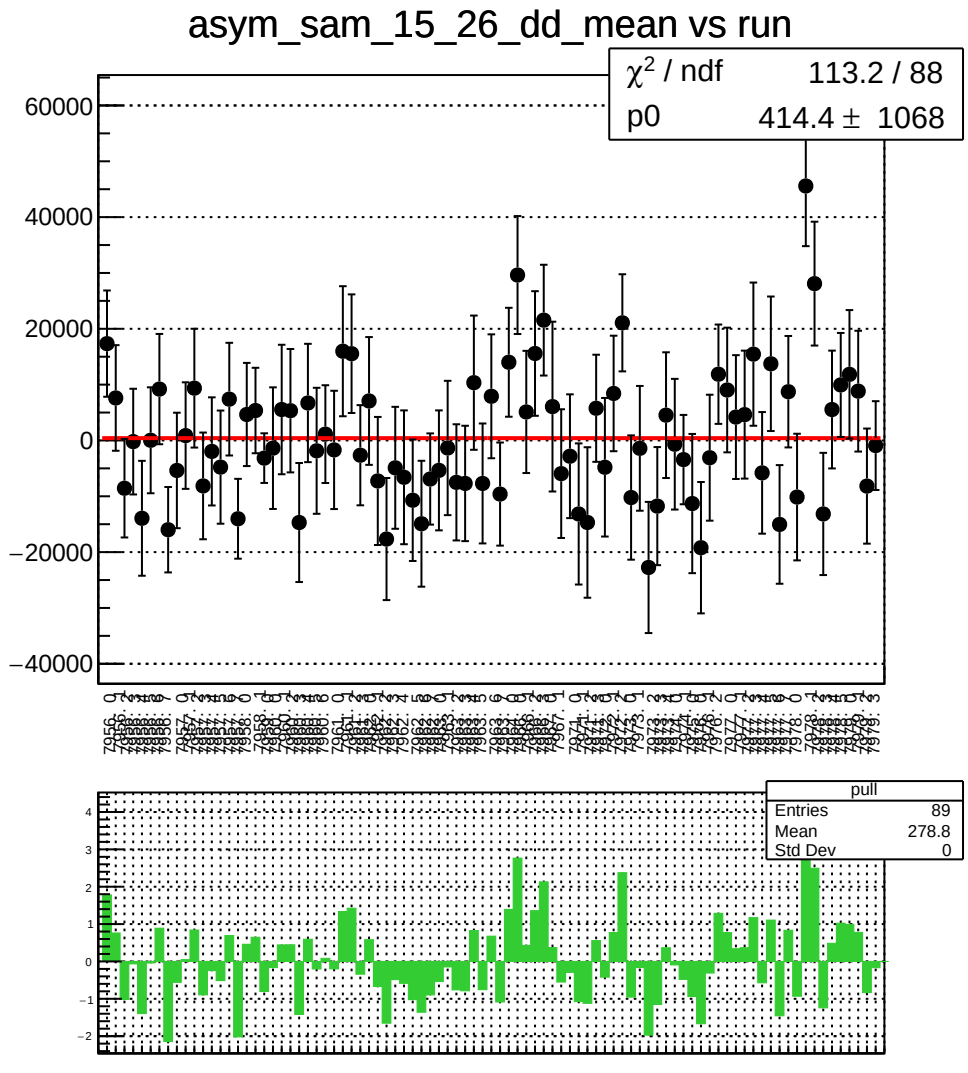

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 1.632e+04 / 88
p0 973 ± 0.7305
1300
1200
1100
1000
900
800

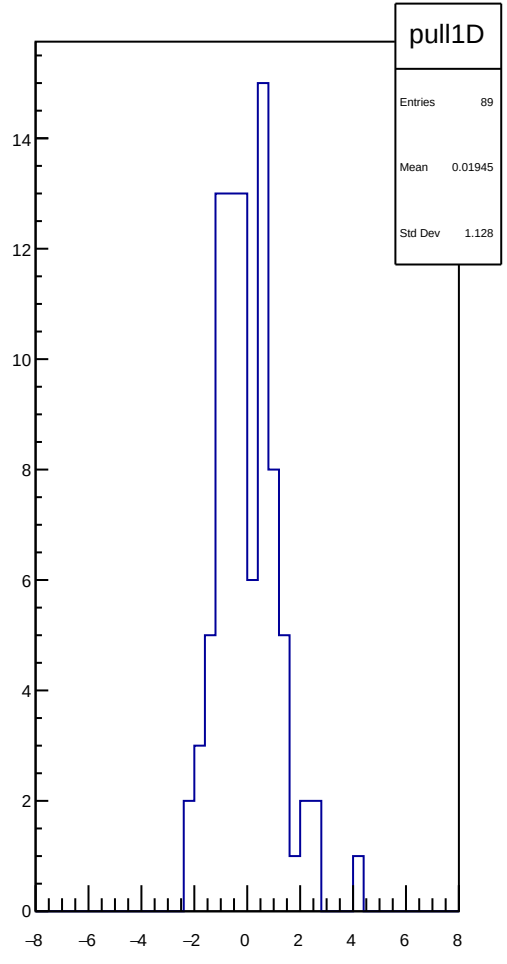

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 118 / 88
p0 −199.2 ± 142.8
pull
Entries 89
Mean 143.9
Std Dev 0
pull1D
Entries 89
Mean 0.0487
Std Dev 1.15

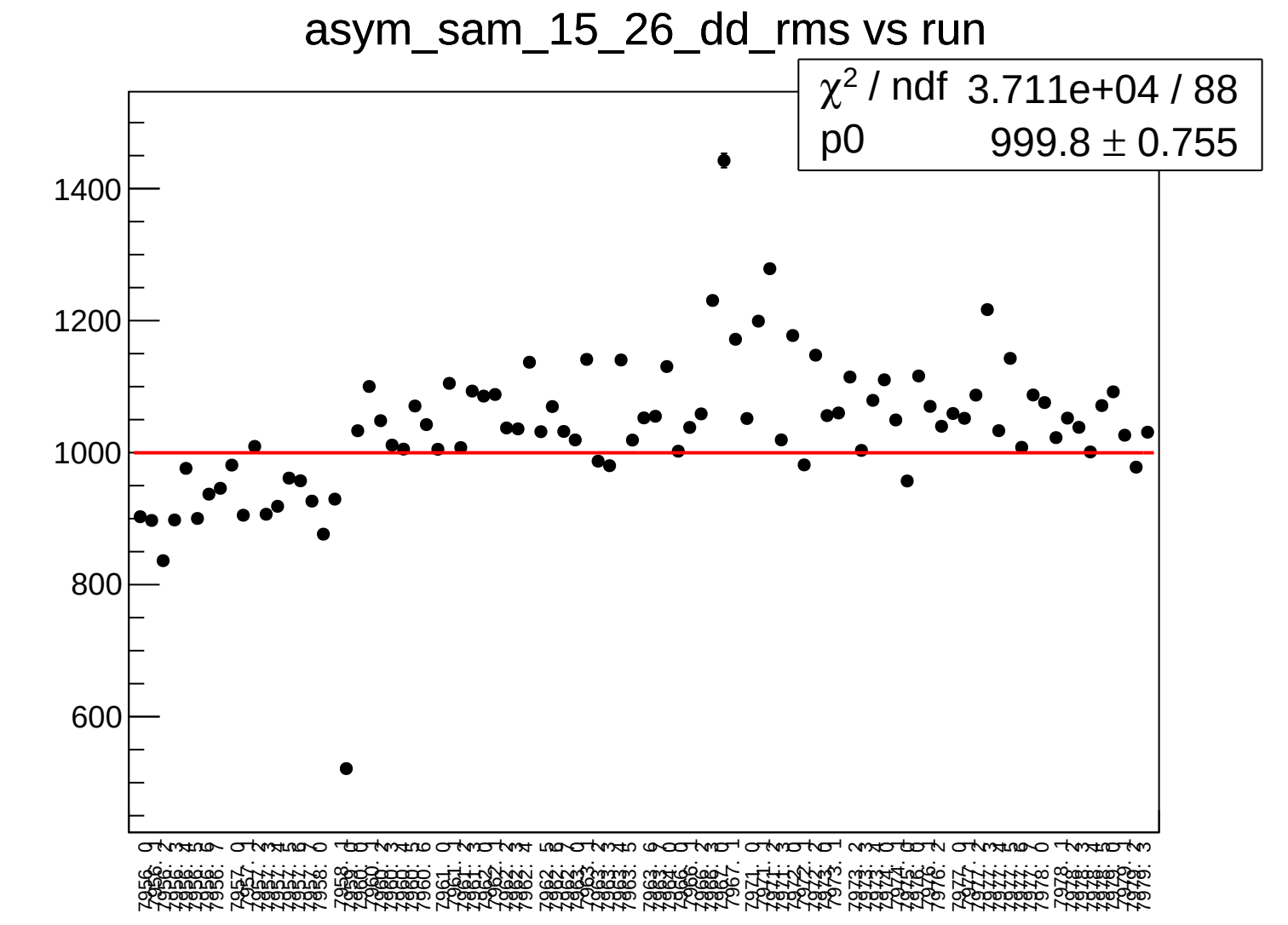

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 9.865e+04 / 88
p0 131.3 ± 0.1009
500
450
400
350
300
250
200
150
100

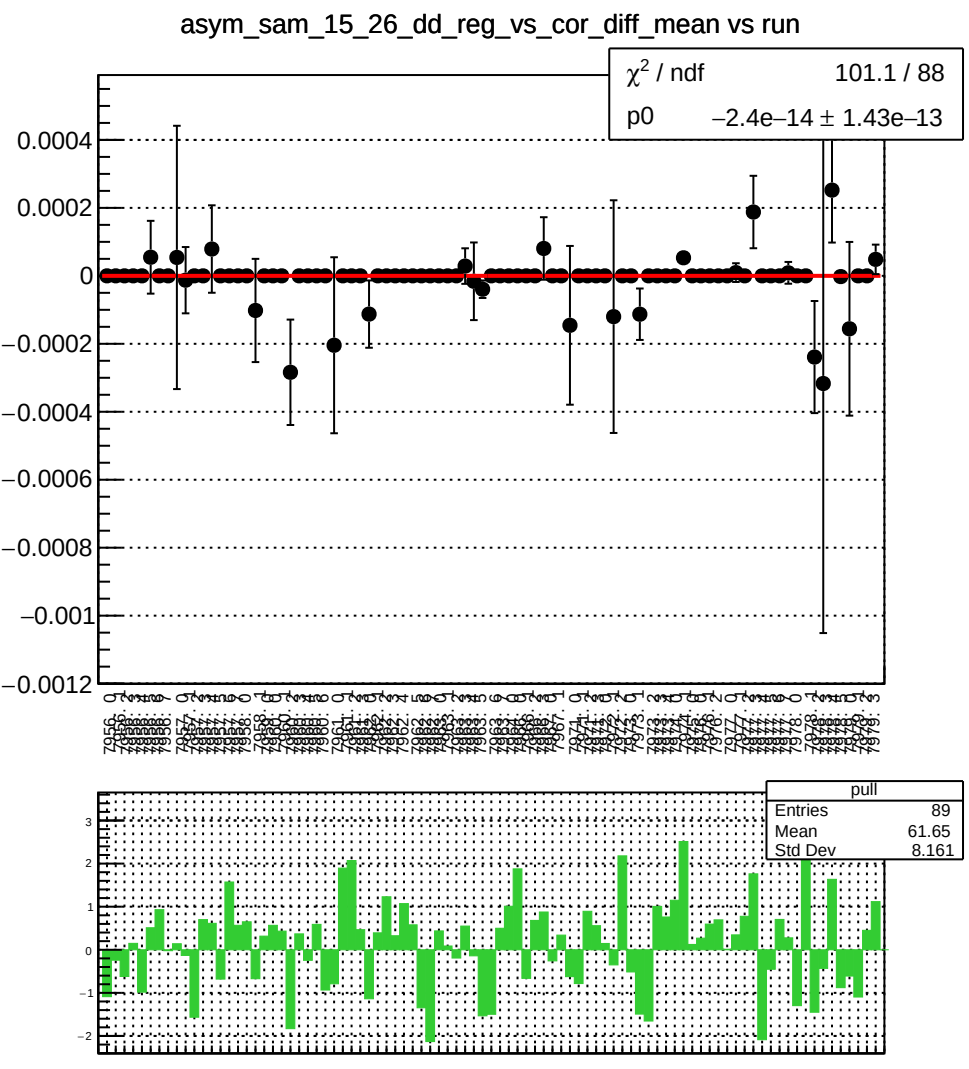

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.4 / 88
p0 −716.3 ± 1033
pull
Entries 89
Mean 1710
Std Dev 0
pull1D
Entries 89
Mean −0.002588
Std Dev 1.129

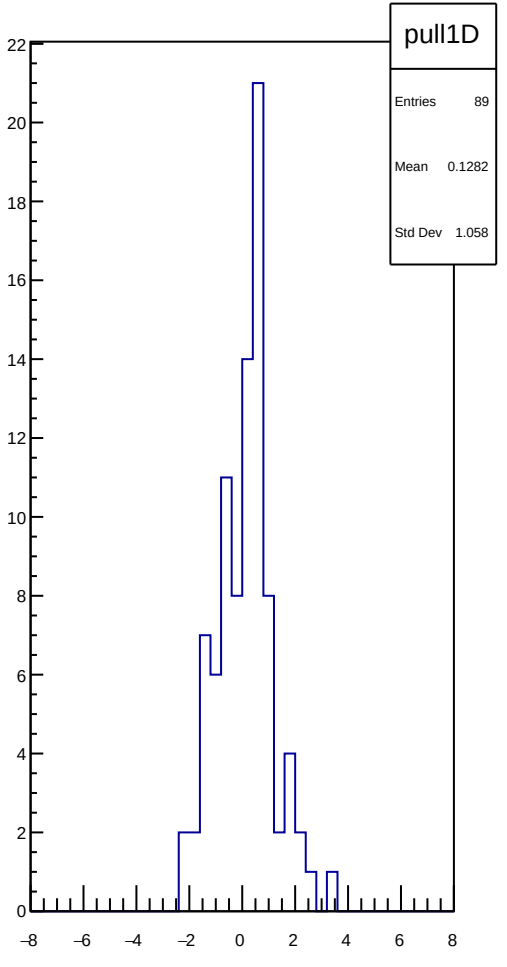

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.632e+04 / 88
p0 973 ± 0.7305
1300
1200
1100
1000
900
800

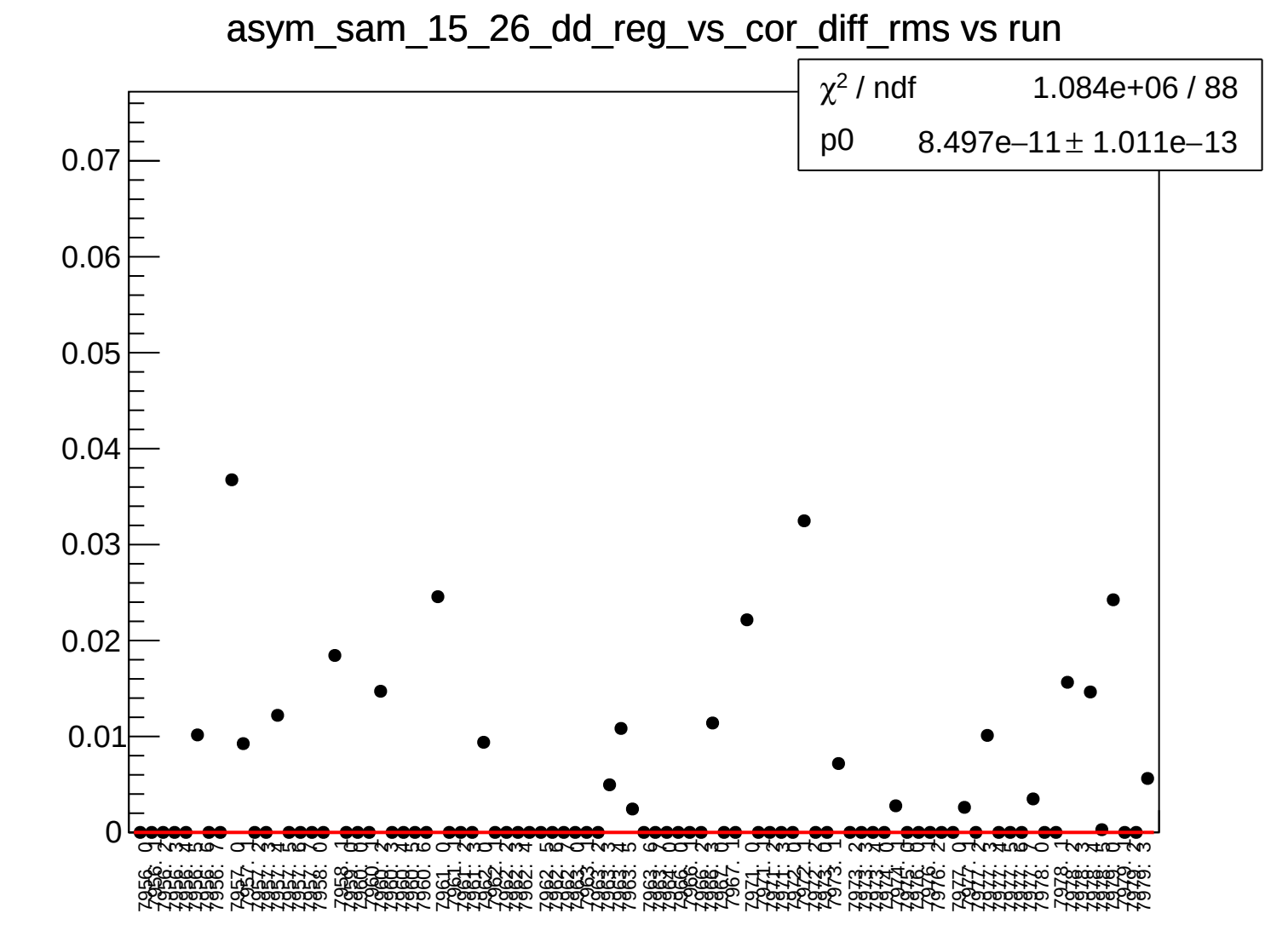

asym_sam_15_26_dd_mean vs run
χ² / ndf 113.2 / 88
p0 414.4 ± 1068
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 278.8
Std Dev 0
4
3
2
1
0
−1
−2

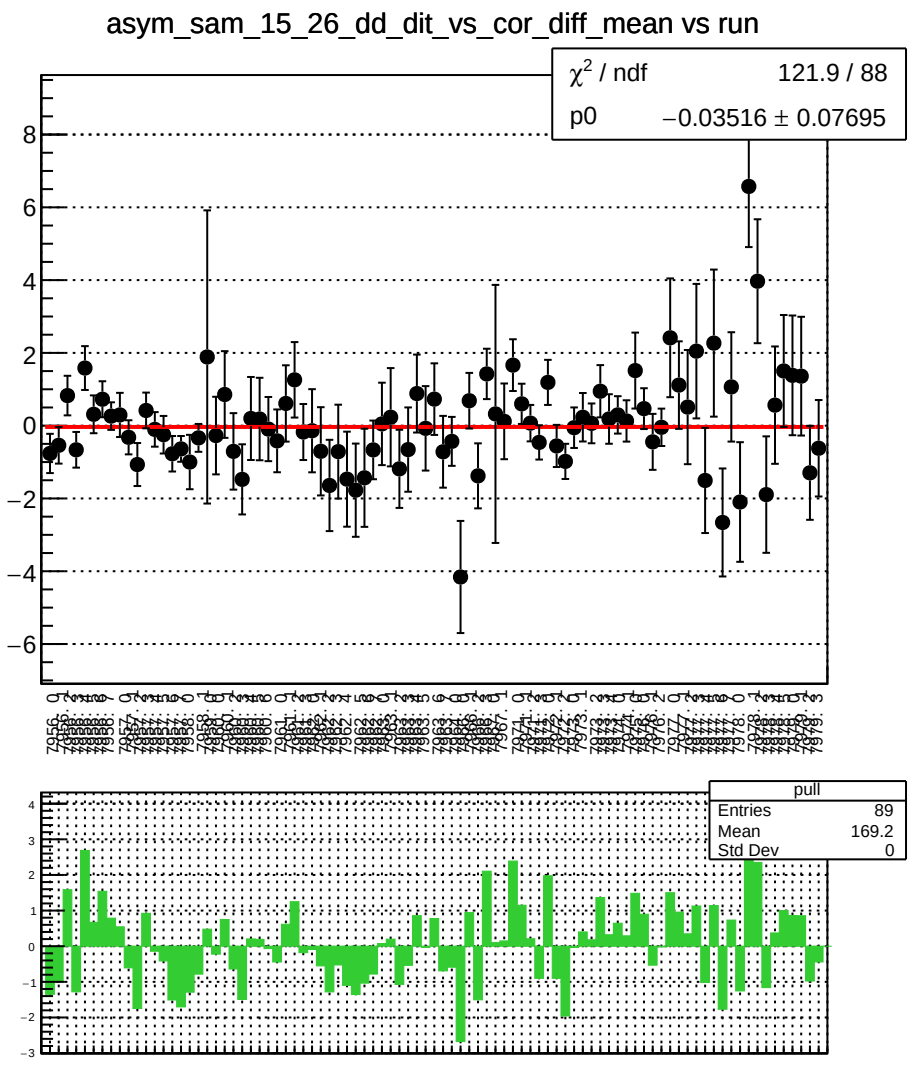

pull1D
Entries 89
Mean 0.01945
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

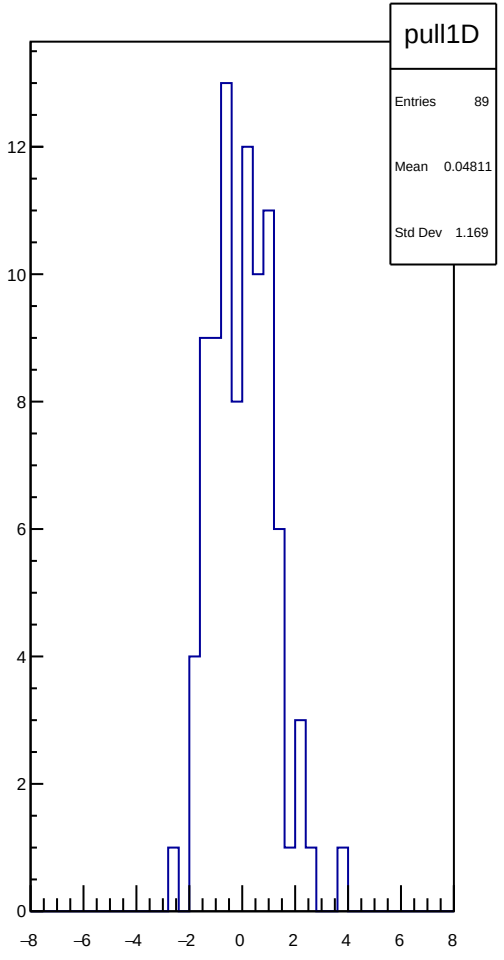

asym_sam_15_26_dd_rms vs run
χ² / ndf 3.711e+04 / 88
p0 999.8 ± 0.755
1400
1200
1000
800
600

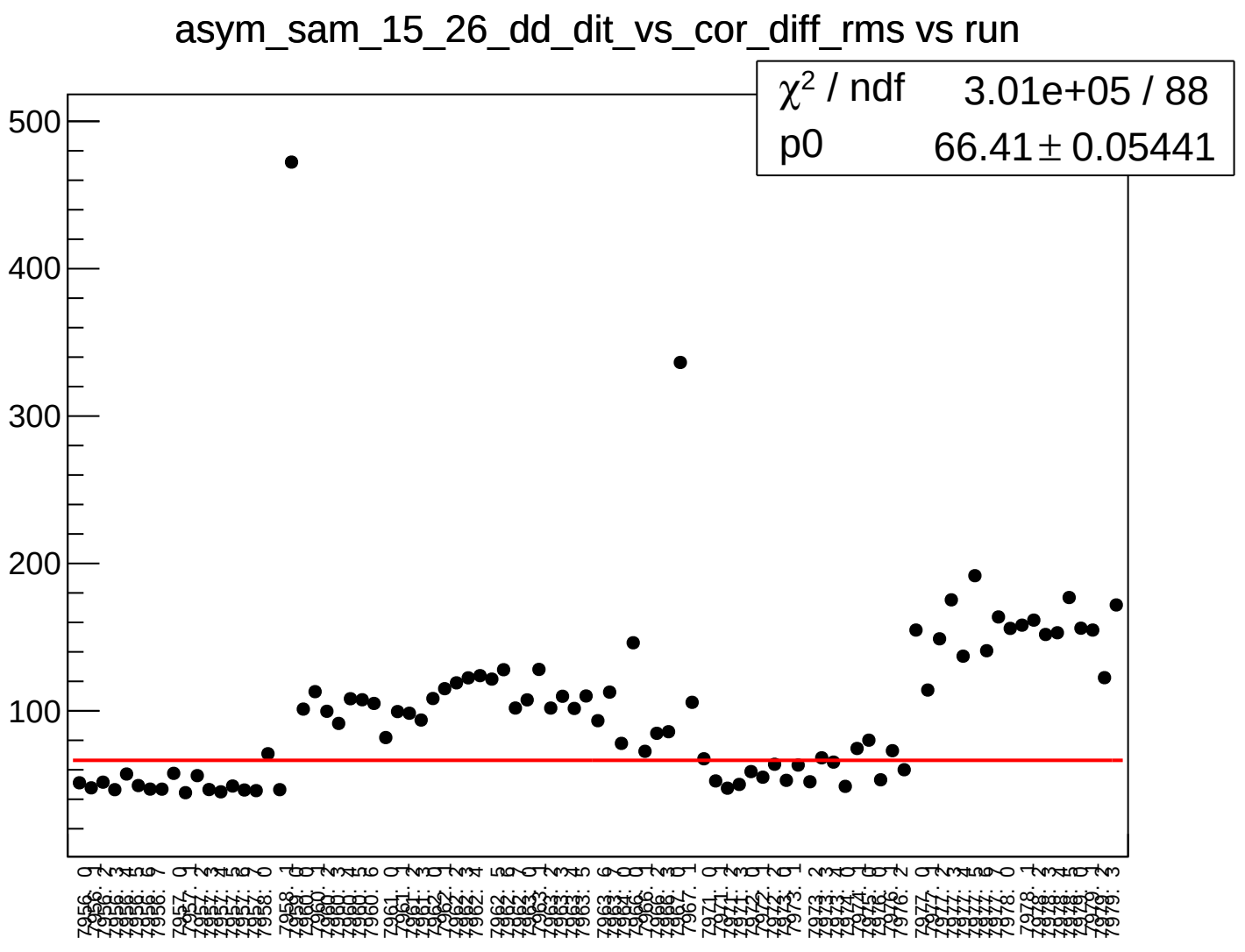

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 88
p0 −2.4e−14 ± 1.43e−13
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 89
Mean 61.65
Std Dev 8.161
3
2
1
0
−1
−2

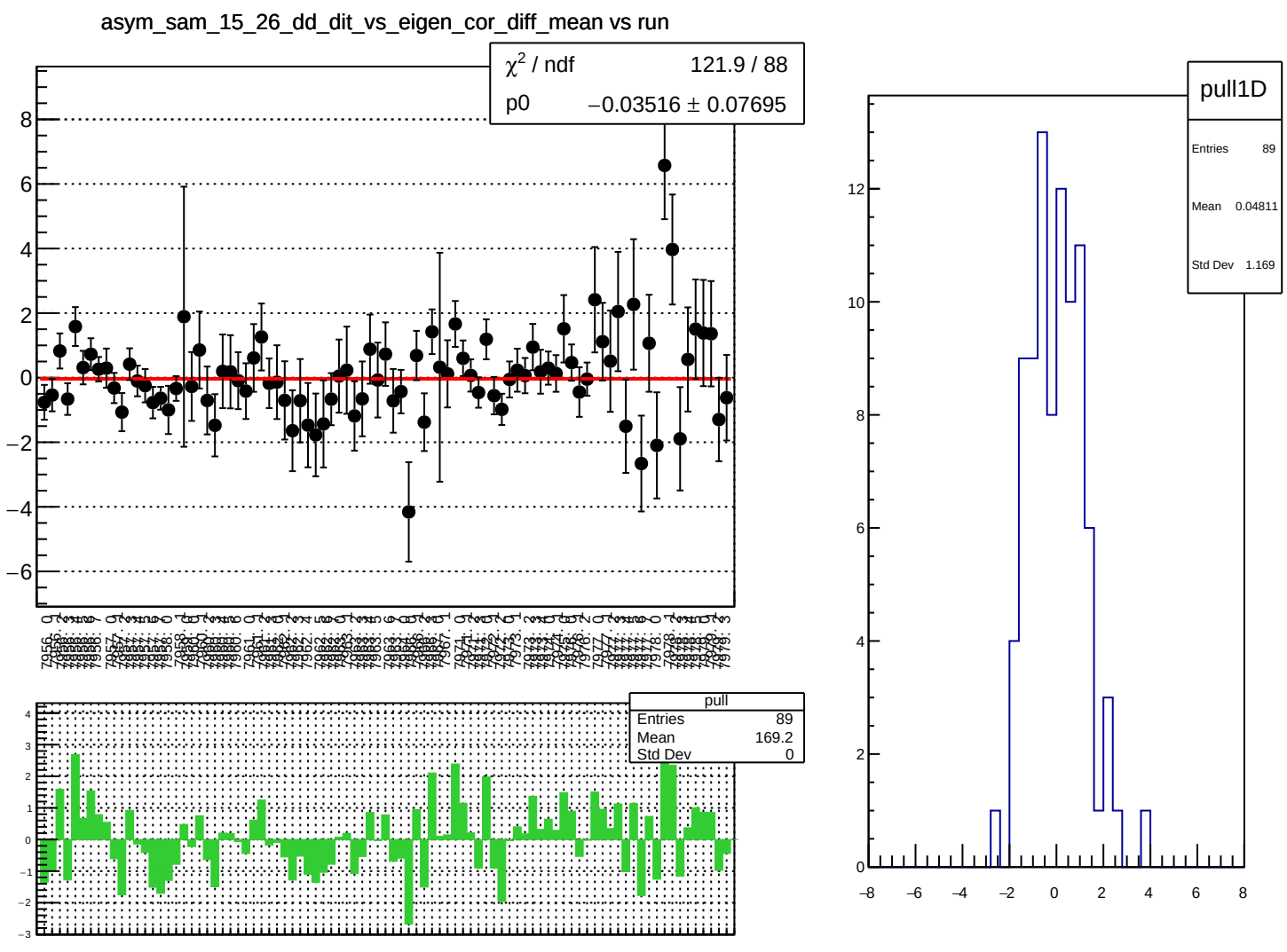

pull1D
Entries 89
Mean 0.1282
Std Dev 1.058
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

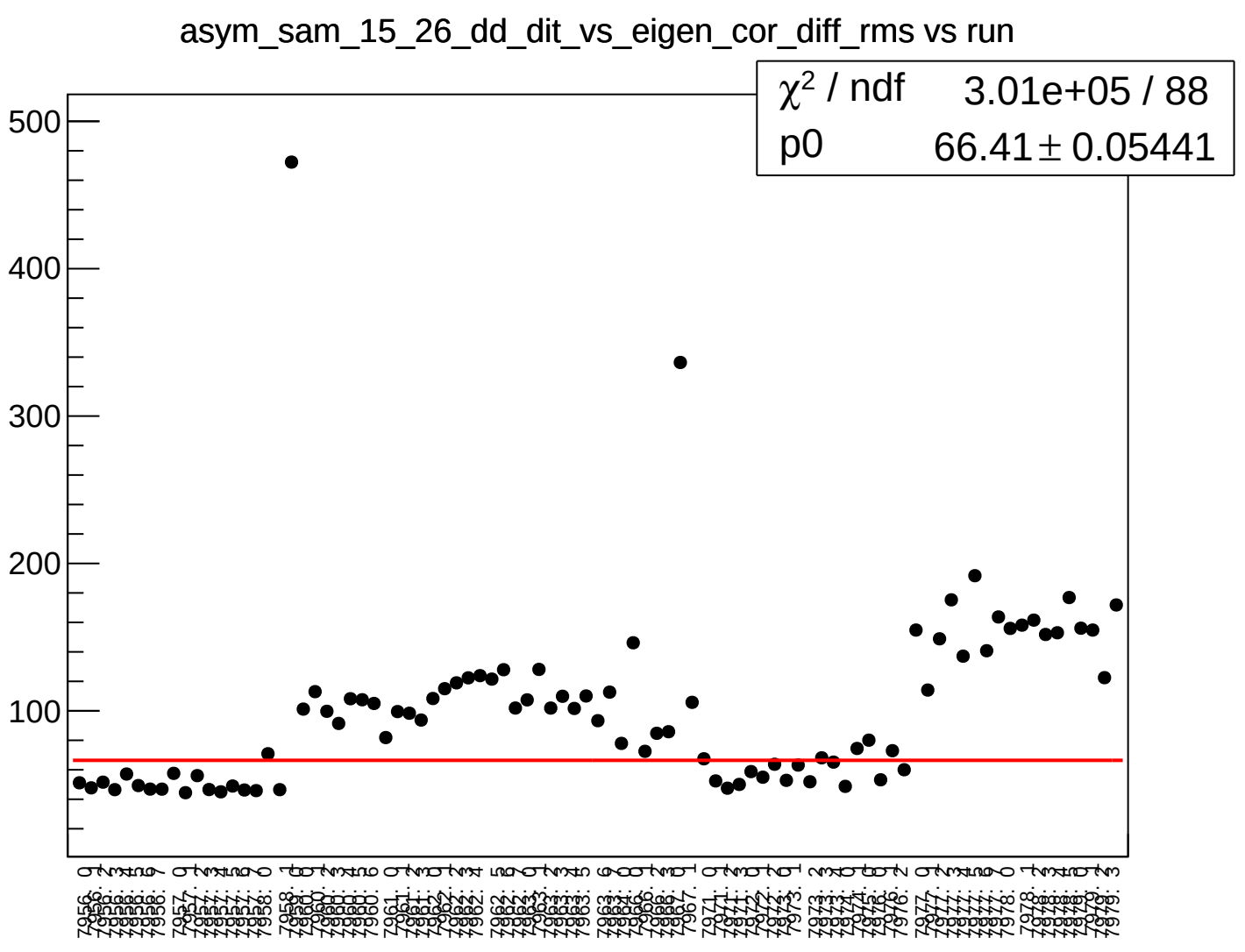

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.084e+06 / 88
p0 8.497e−11 ± 1.011e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

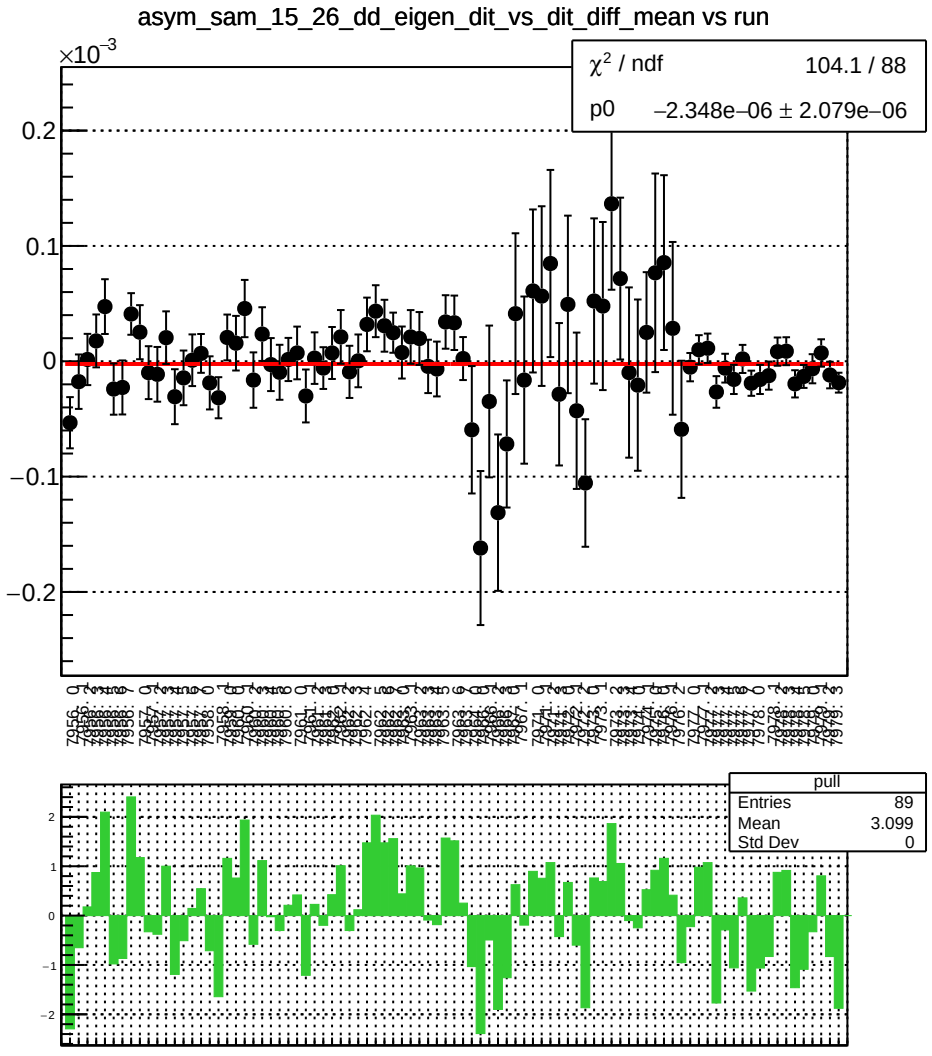

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 121.9 / 88
p0 −0.03516 ± 0.07695
pull
Entries 89
Mean 169.2
Std Dev 0

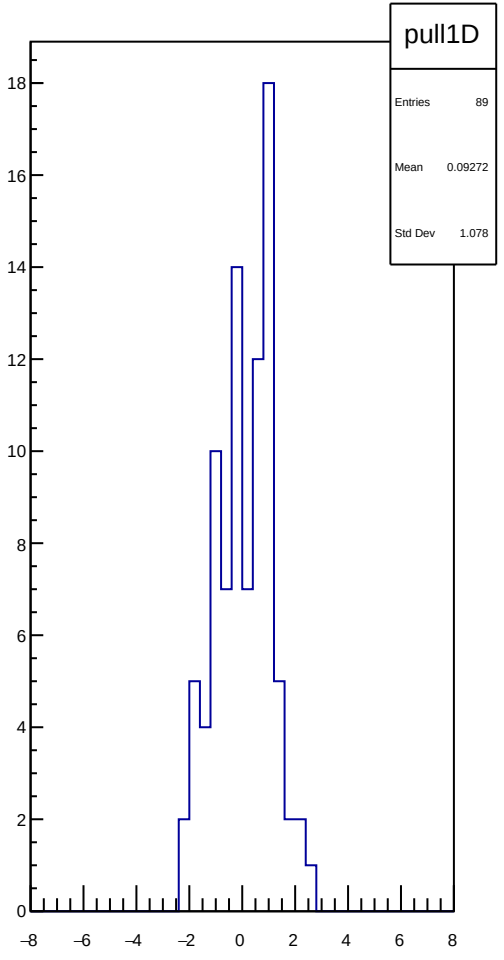

pull1D
Entries 89
Mean 0.04811
Std Dev 1.169

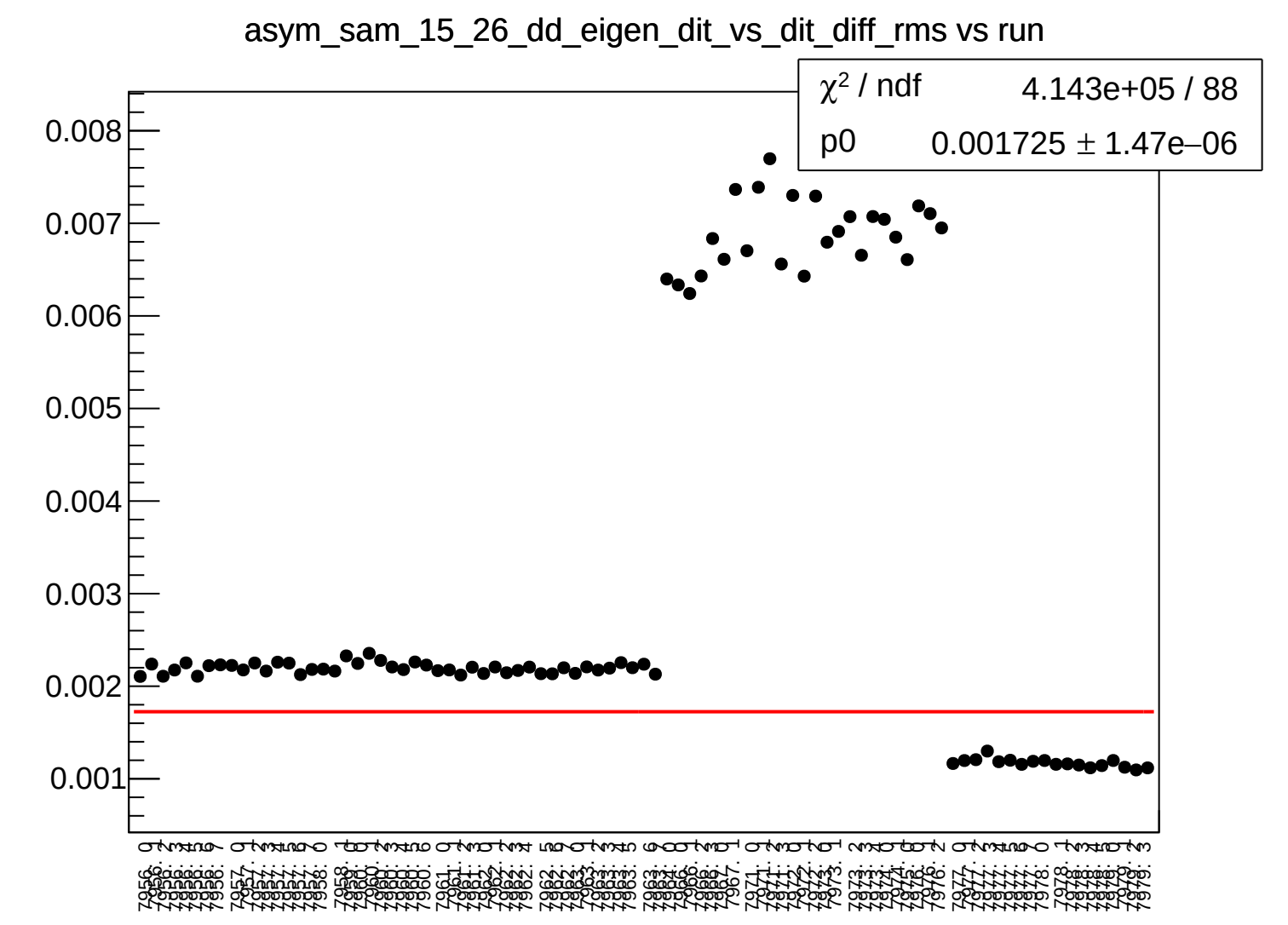

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.01e+05 / 88
p0 66.41 ± 0.05441
500
400
300
200
100

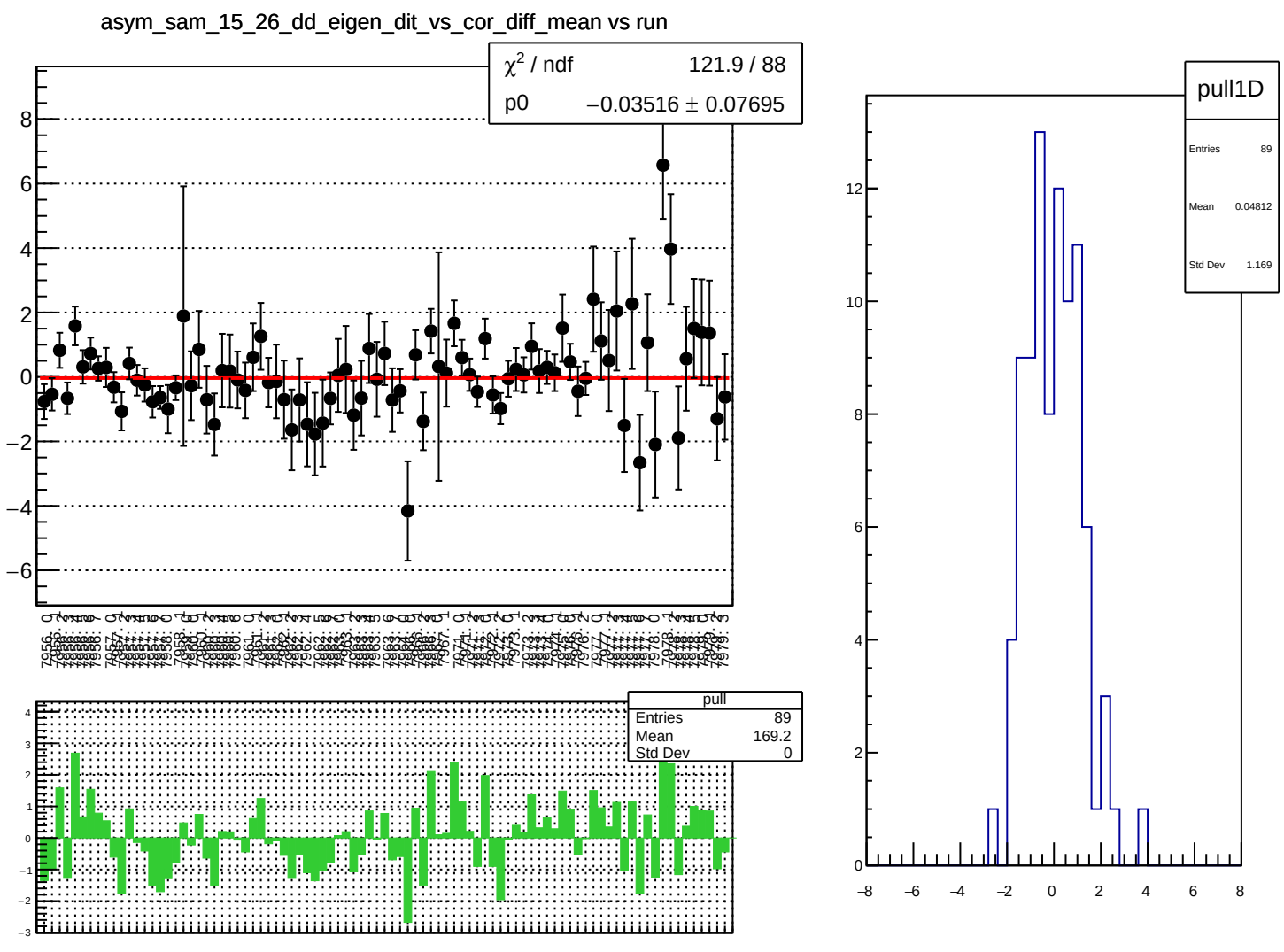

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.9 / 88
p0 −0.03516 ± 0.07695
pull
Entries 89
Mean 169.2
Std Dev 0
pull1D
Entries 89
Mean 0.04811
Std Dev 1.169

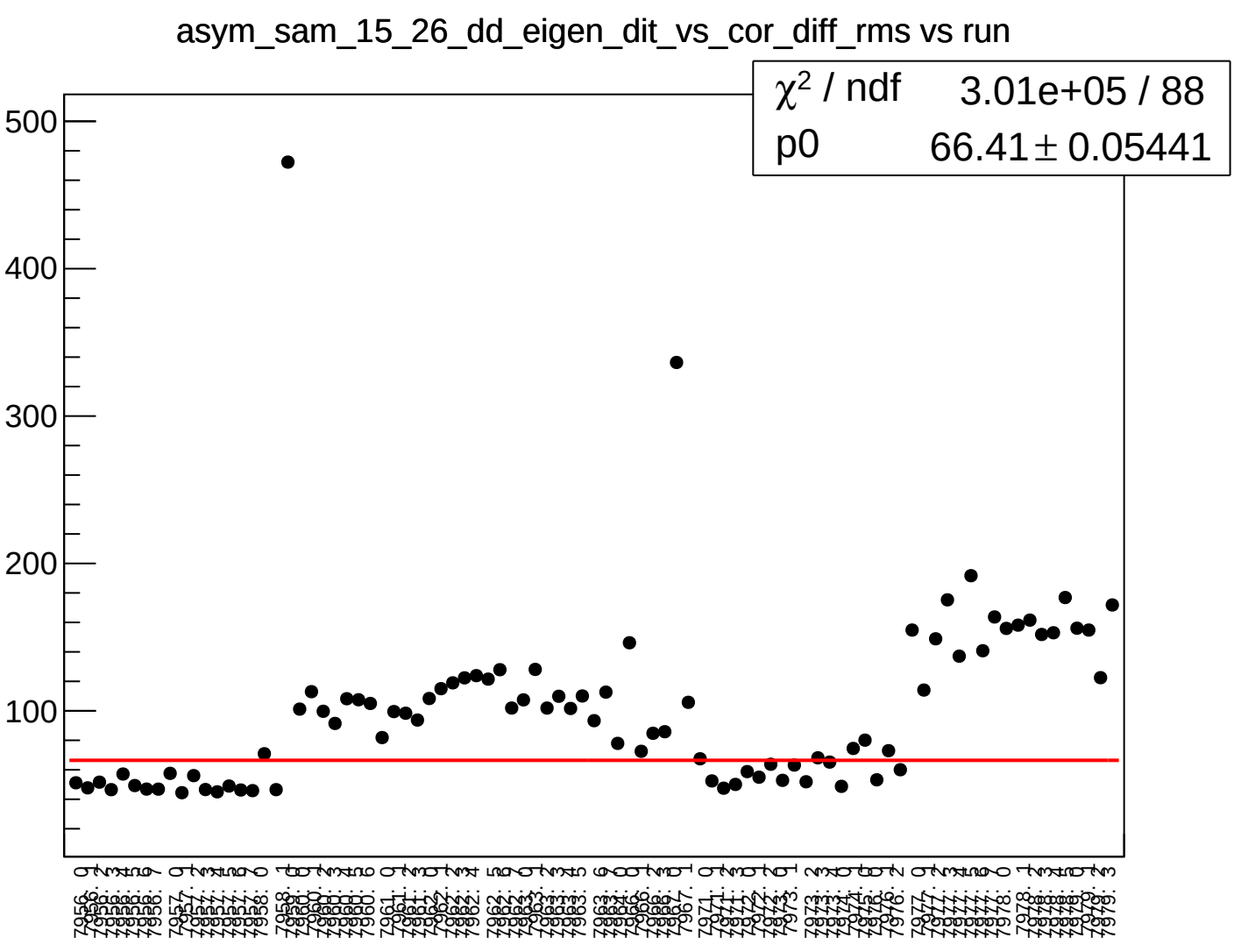

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.01e+05 / 88
p0 66.41 ± 0.05441
500
400
300
200
100

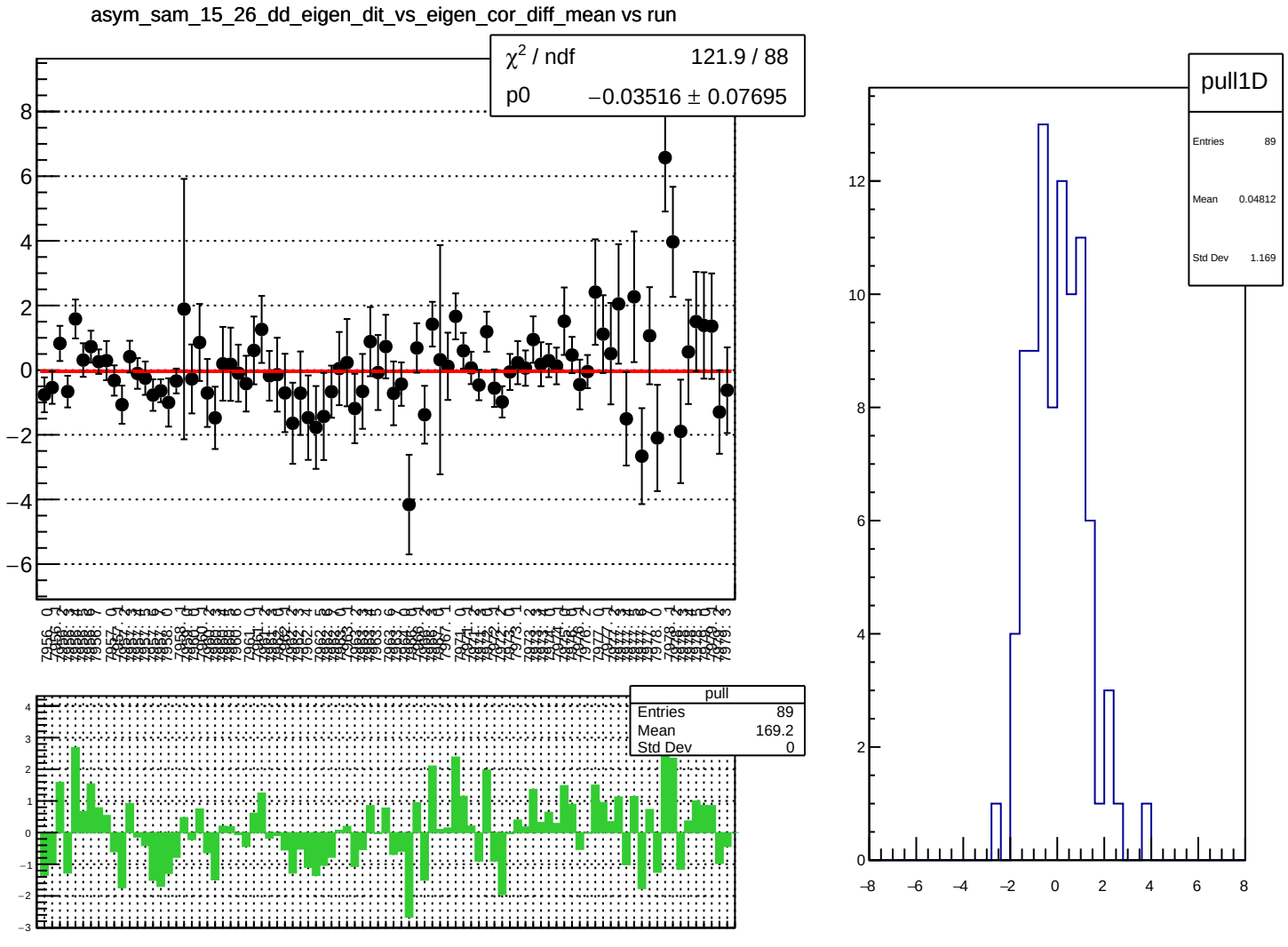

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 104.1 / 88
p0 −2.348e−06 ± 2.079e−06
pull
Entries 89
Mean 3.099
Std Dev 0

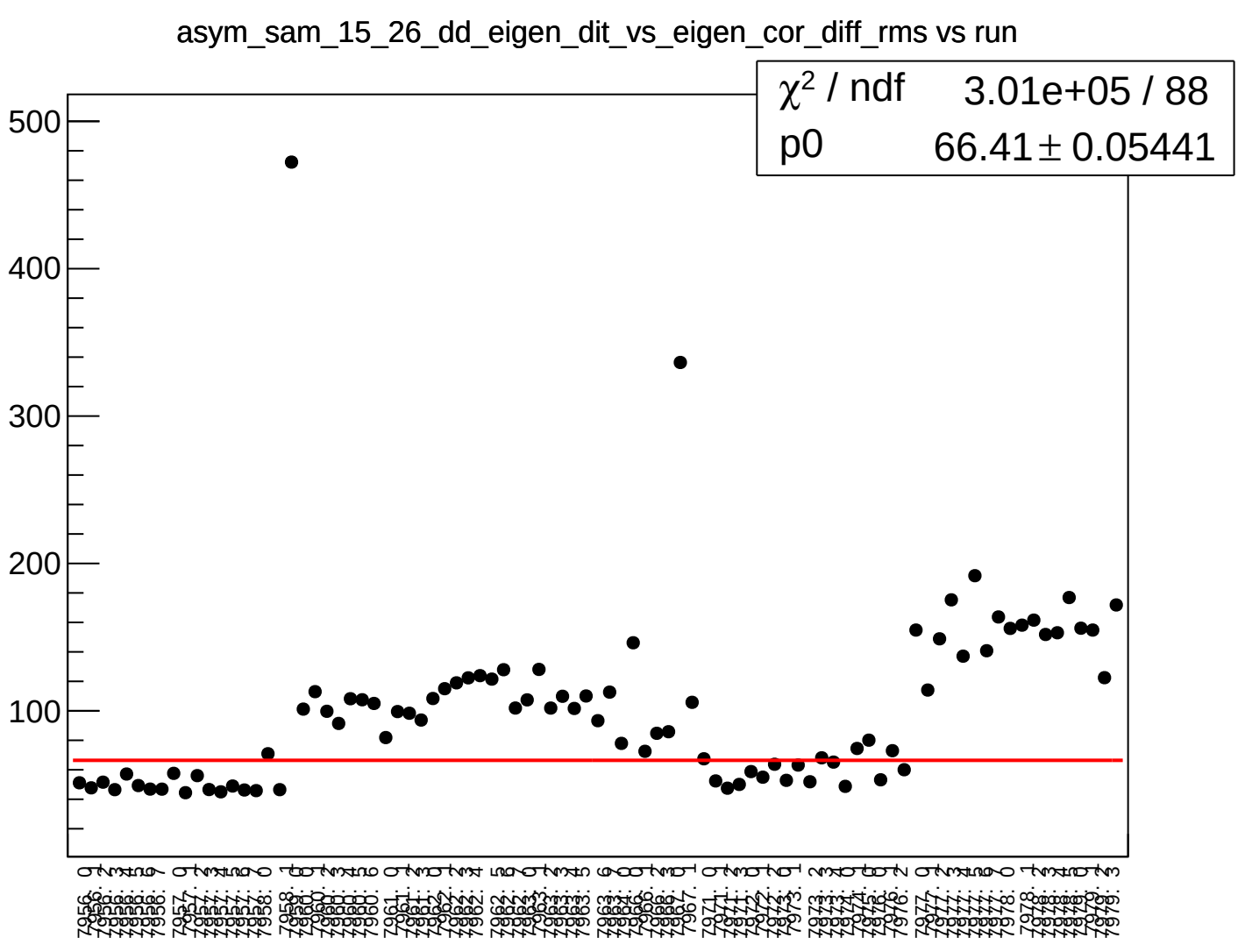

pull1D
Entries 89
Mean 0.09272
Std Dev 1.078

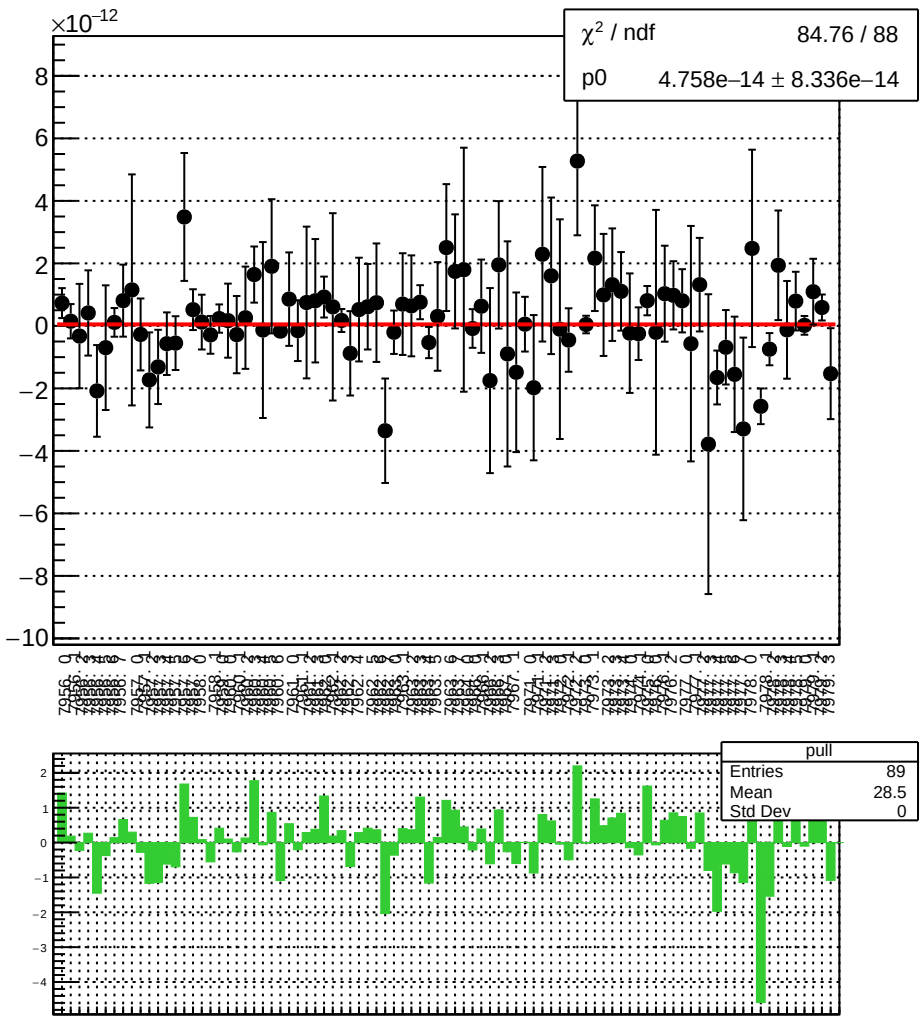

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.143e+05 / 88
p0 0.001725 ± 1.47e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

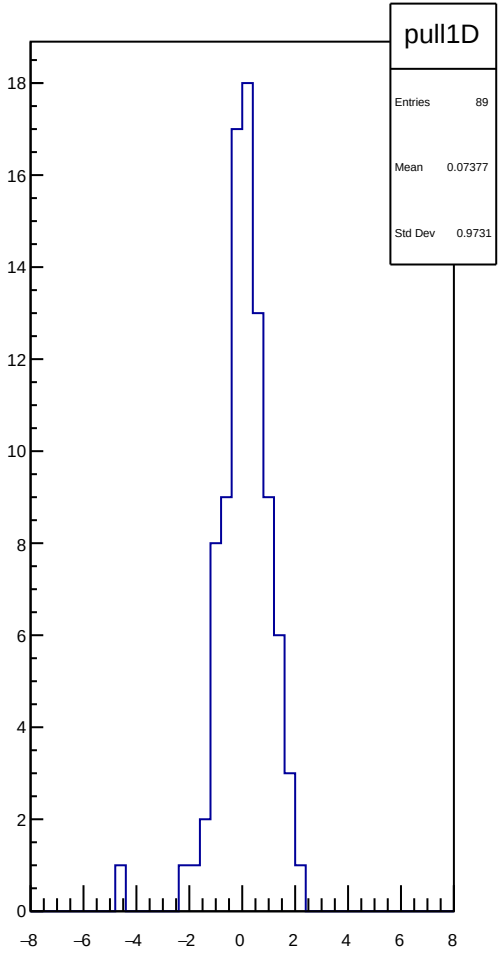

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 121.9 / 88
p0 −0.03516 ± 0.07695
pull
Entries 89
Mean 169.2
Std Dev 0
pull1D
Entries 89
Mean 0.04812
Std Dev 1.169

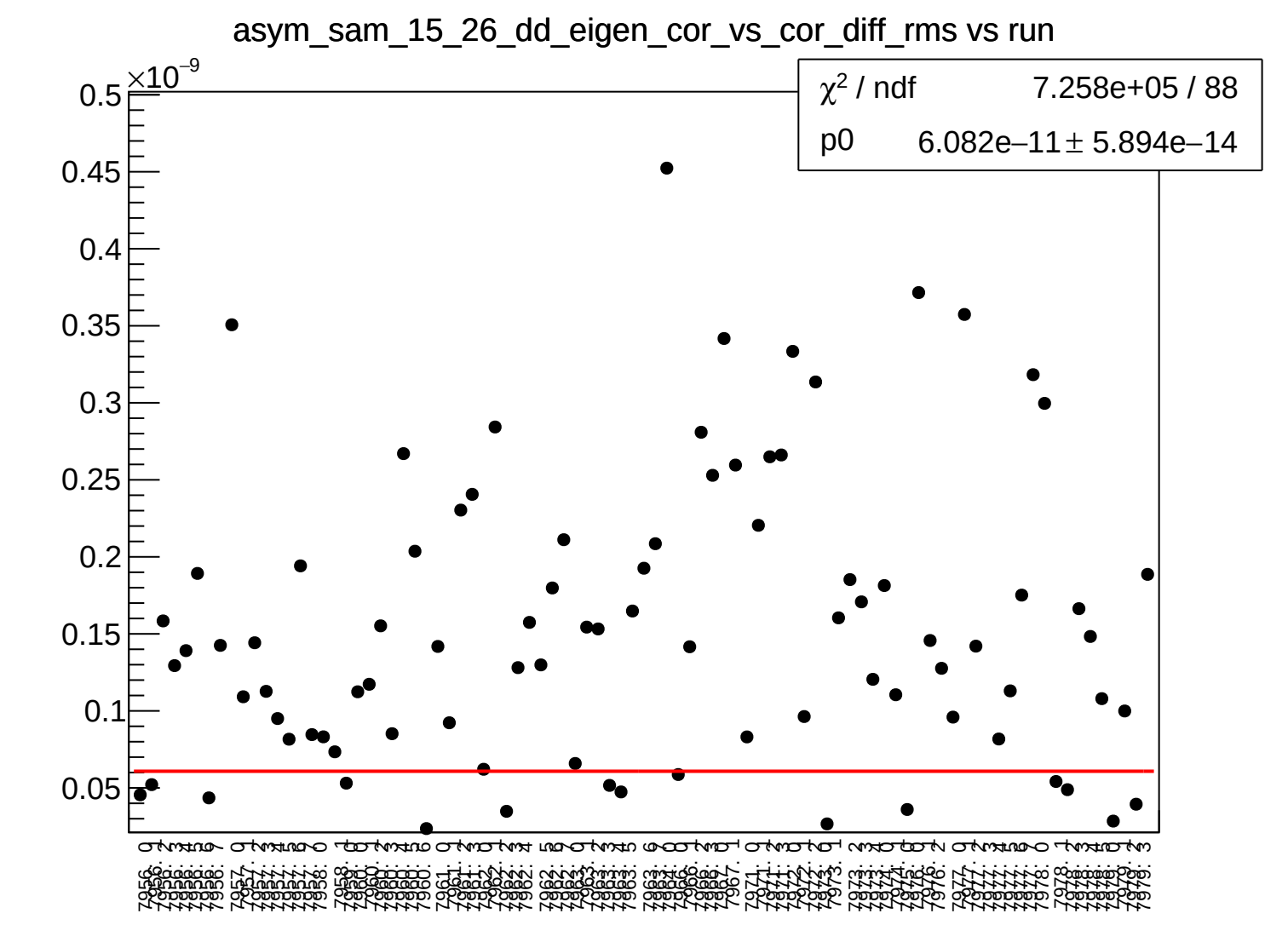

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.01e+05 / 88
p0 66.41 ± 0.05441
500
400
300
200
100

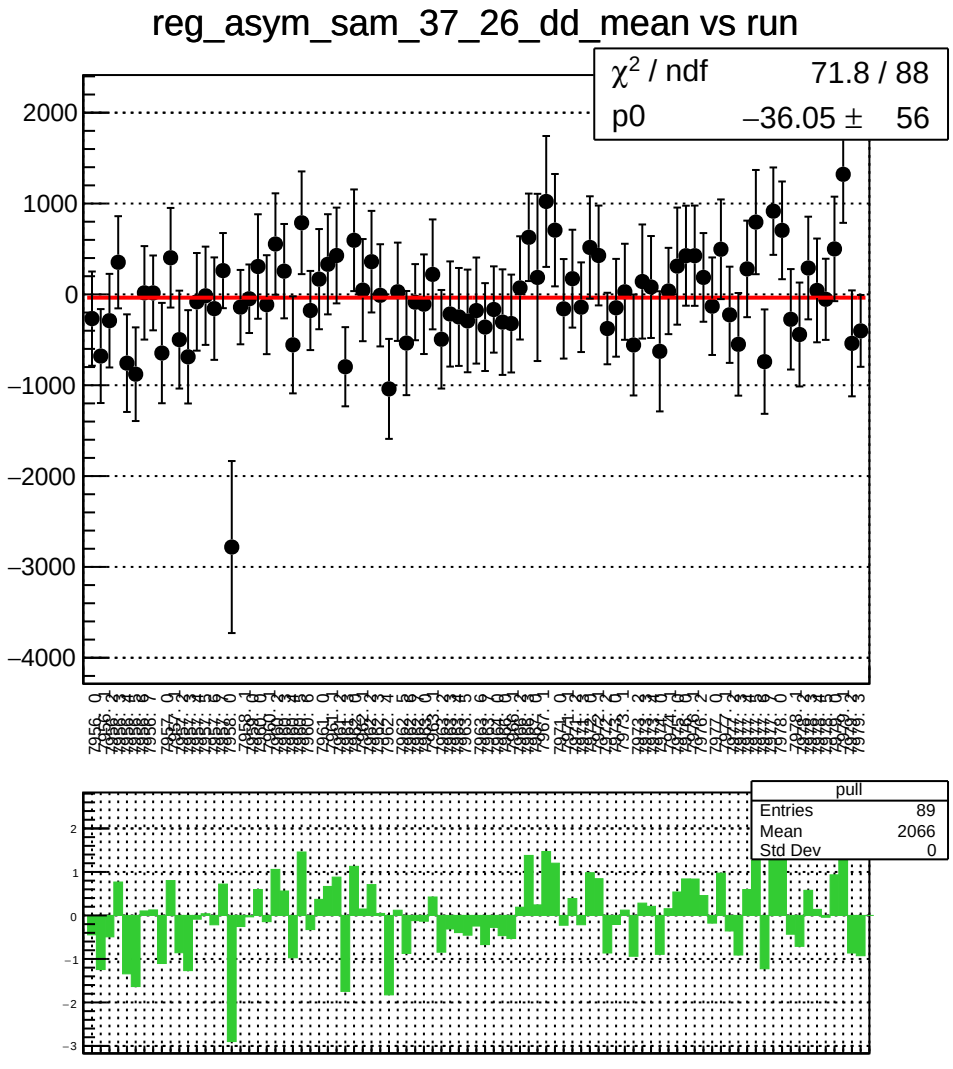

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.9 / 88
p0 −0.03516 ± 0.07695
pull
Entries 89
Mean 169.2
Std Dev 0
pull1D
Entries 89
Mean 0.04812
Std Dev 1.169

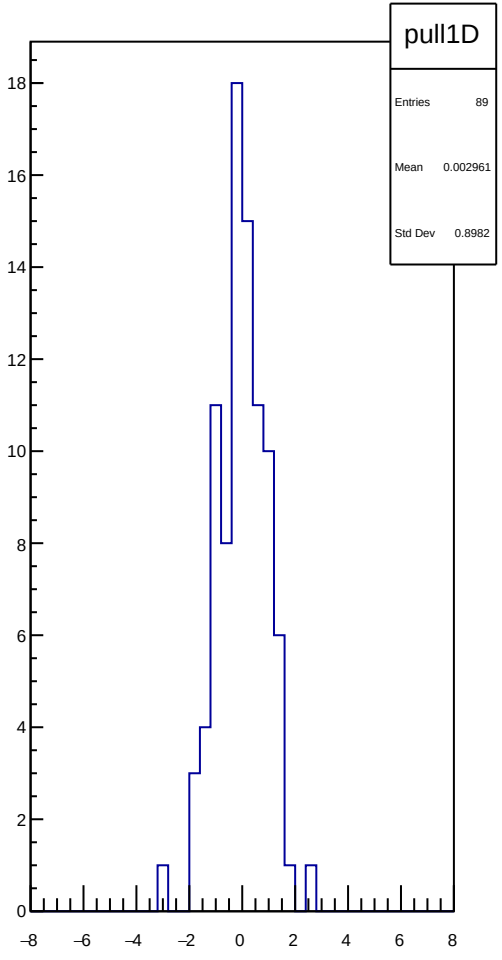

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.01e+05 / 88
p0 66.41 ± 0.05441
500
400
300
200
100

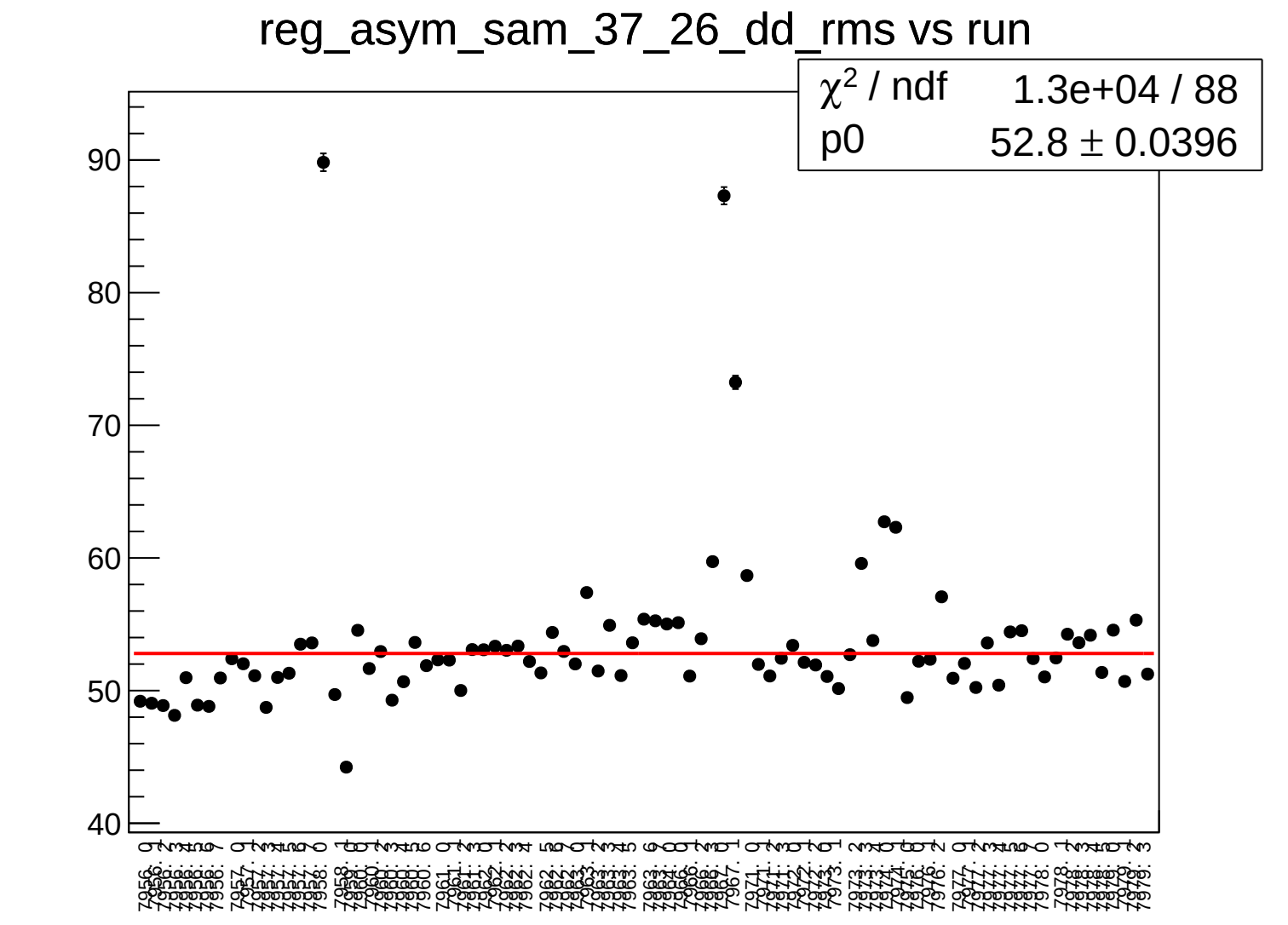

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.76 / 88
p0 4.758e−14 ± 8.336e−14
pull
Entries 89
Mean 28.5
Std Dev 0

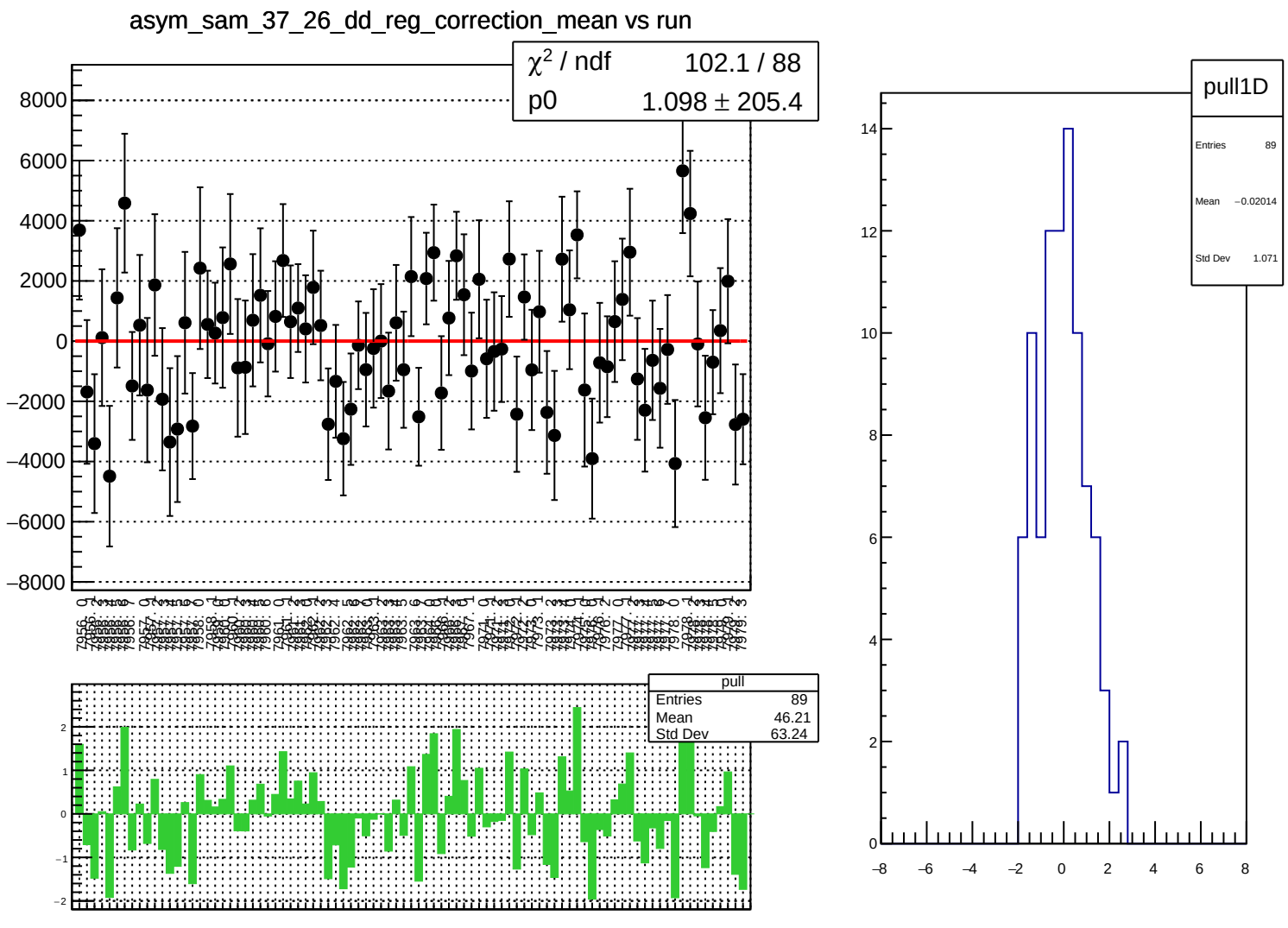

pull1D
Entries 89
Mean 0.07377
Std Dev 0.9731

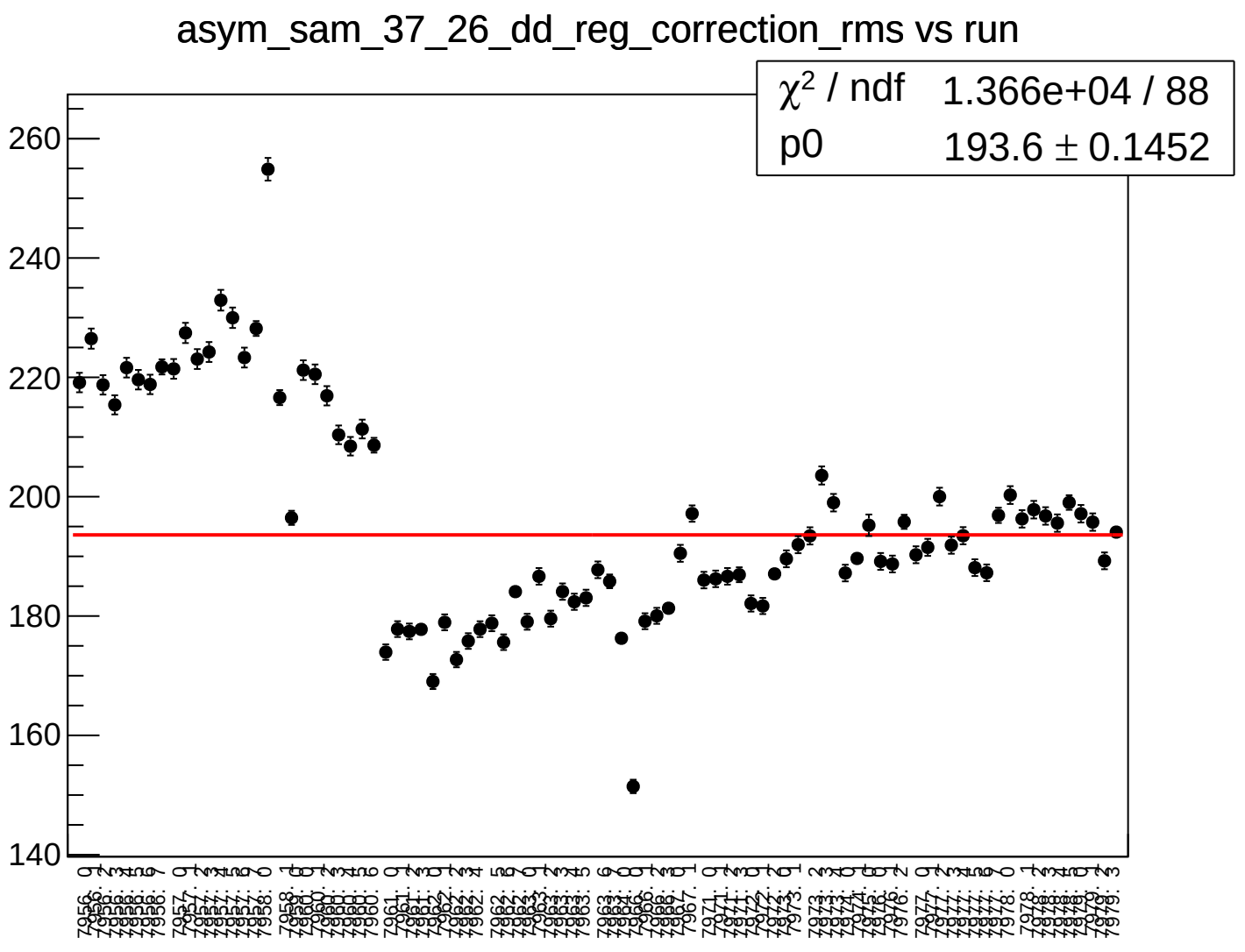

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 7.258e+05 / 88
p0 6.082e−11 ± 5.894e−14

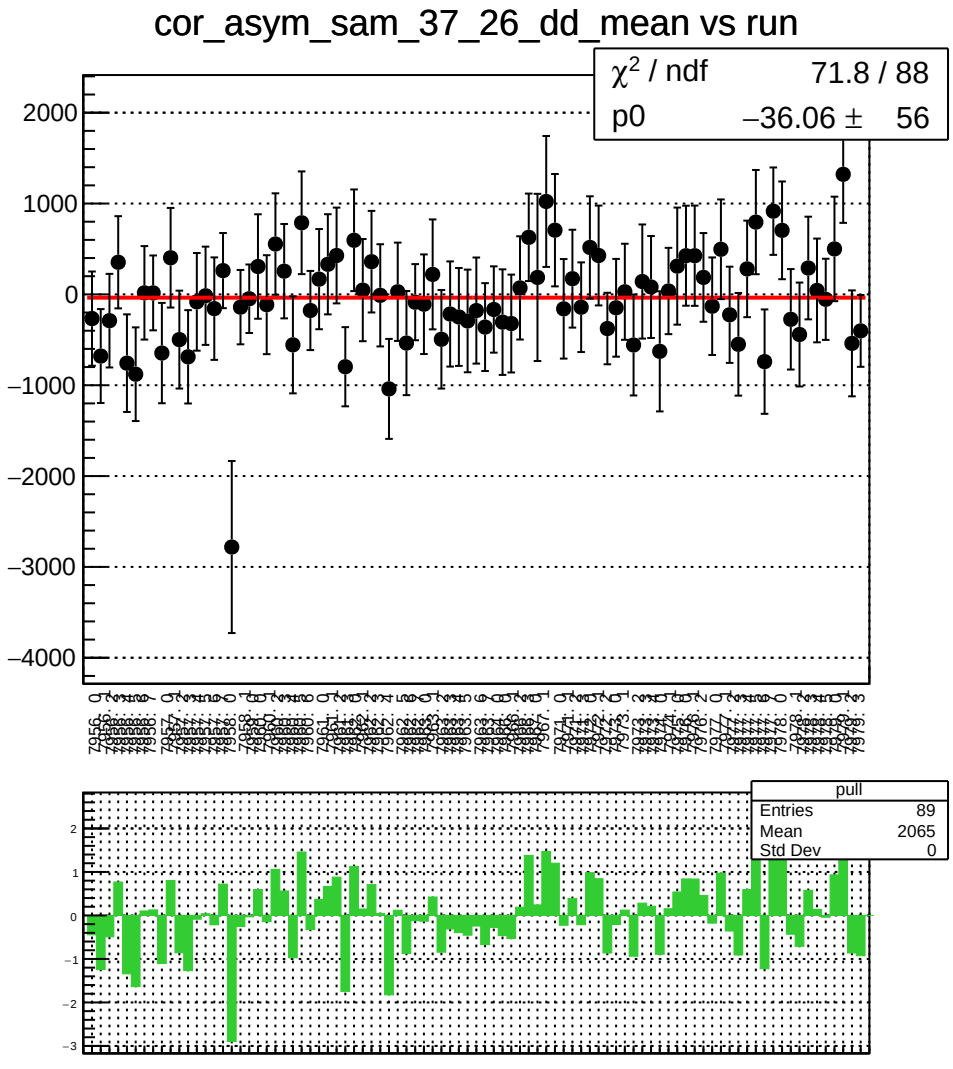

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 71.8 / 88
p0 −36.05 ± 56
pull
Entries 89
Mean 2066
Std Dev 0

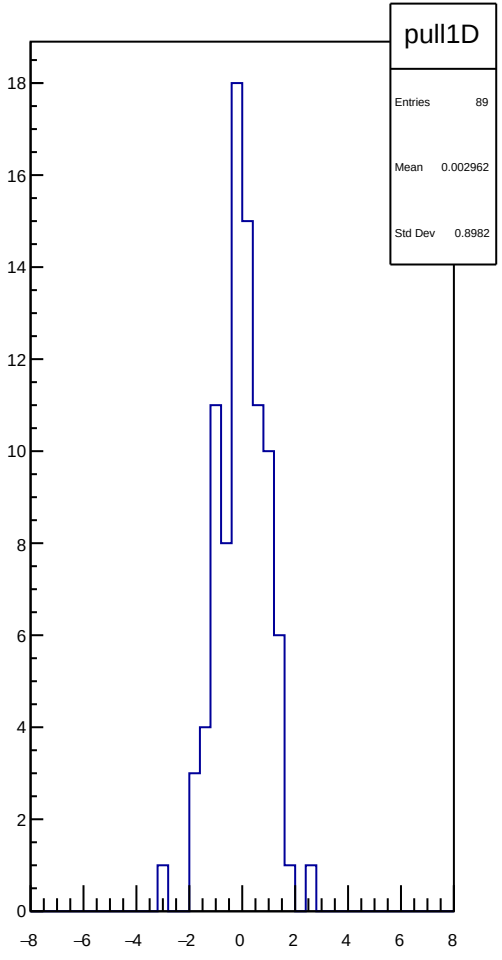

pull1D
Entries 89
Mean 0.002961
Std Dev 0.8982

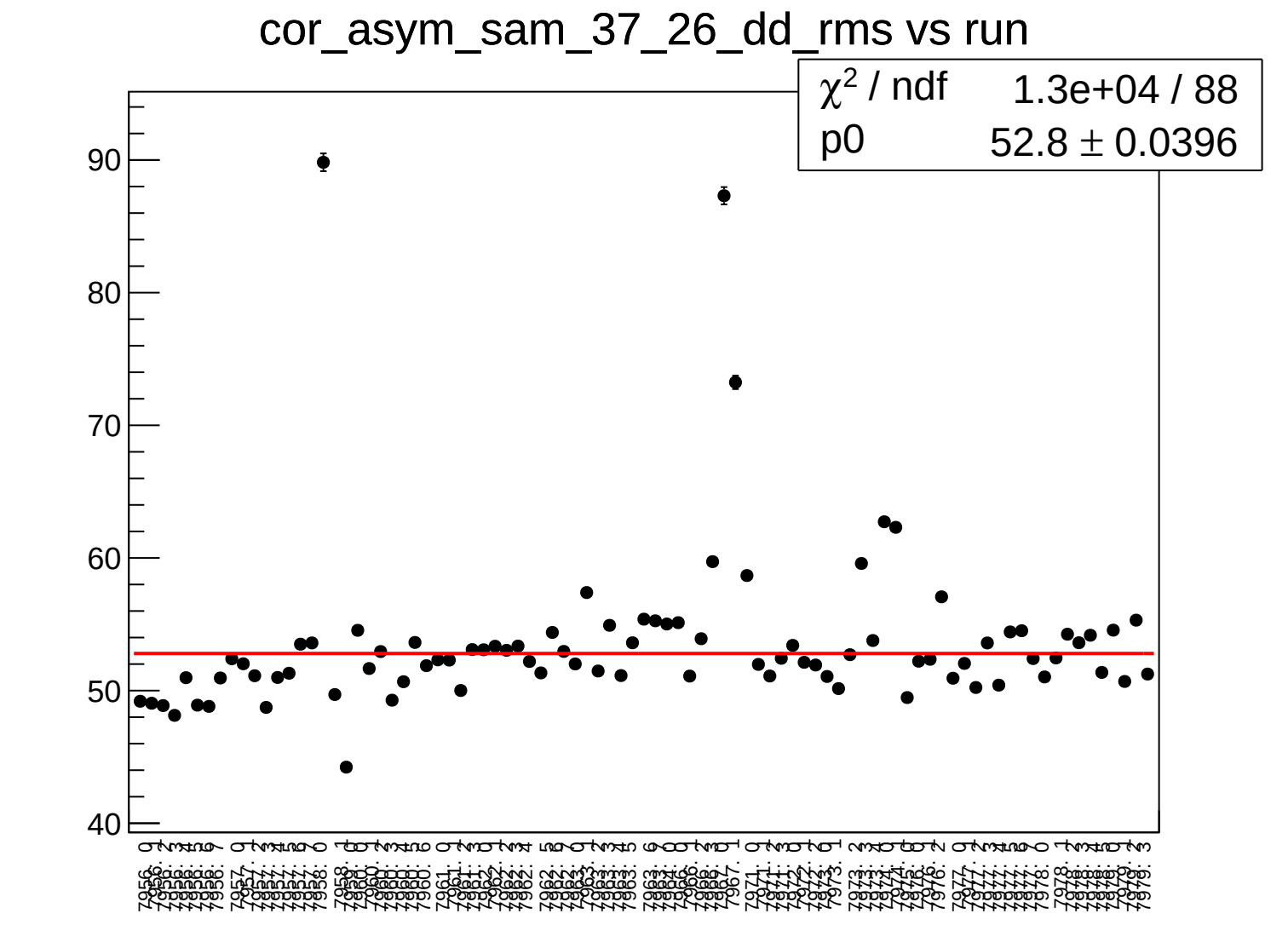

reg_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 1.3e+04 / 88
p0 52.8 ± 0.0396
90
80
70
60
50
40

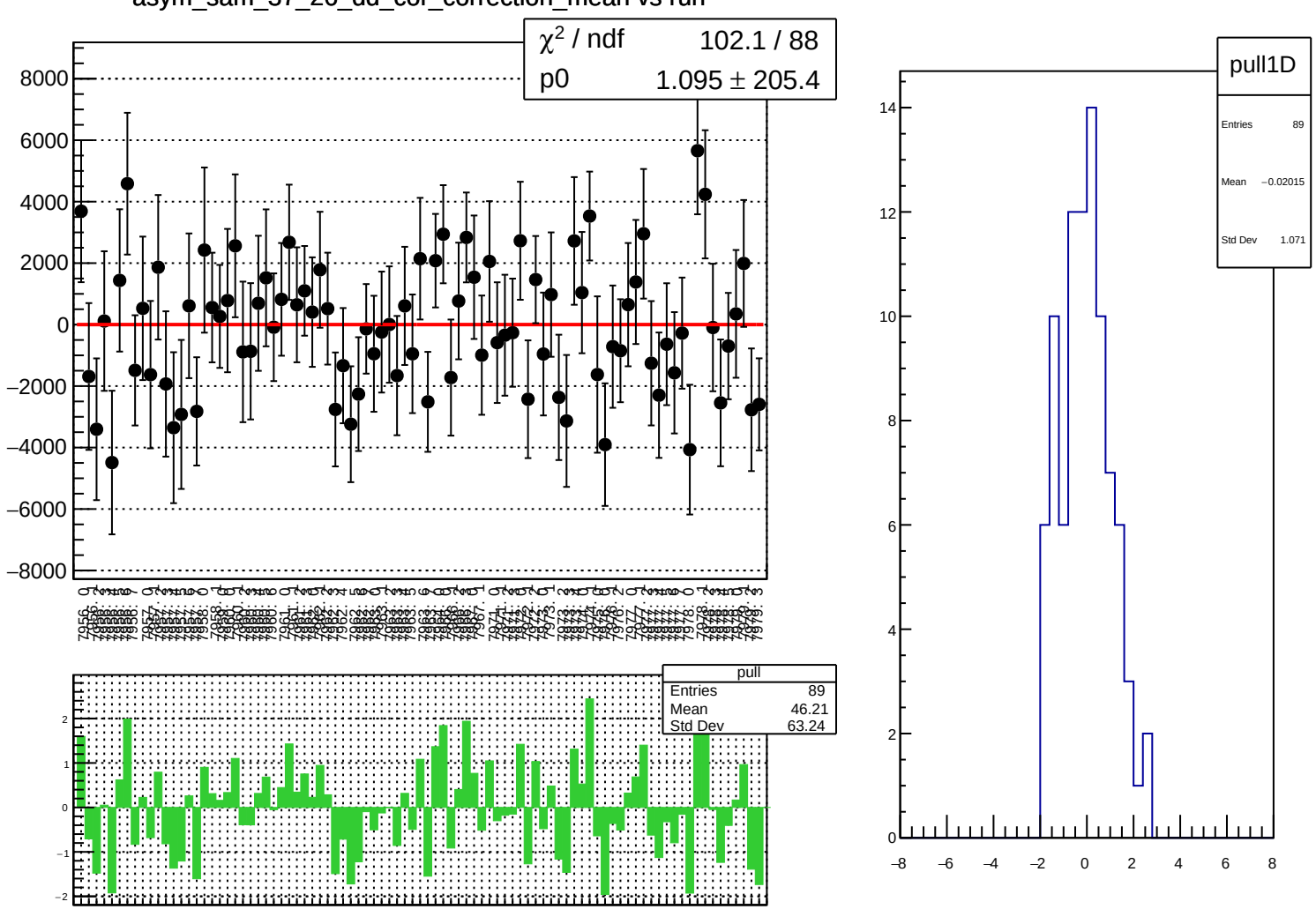

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 102.1 / 88
p0 1.098 ± 205.4
pull
Entries 89
Mean 46.21
Std Dev 63.24
pull1D
Entries 89
Mean −0.02014
Std Dev 1.071

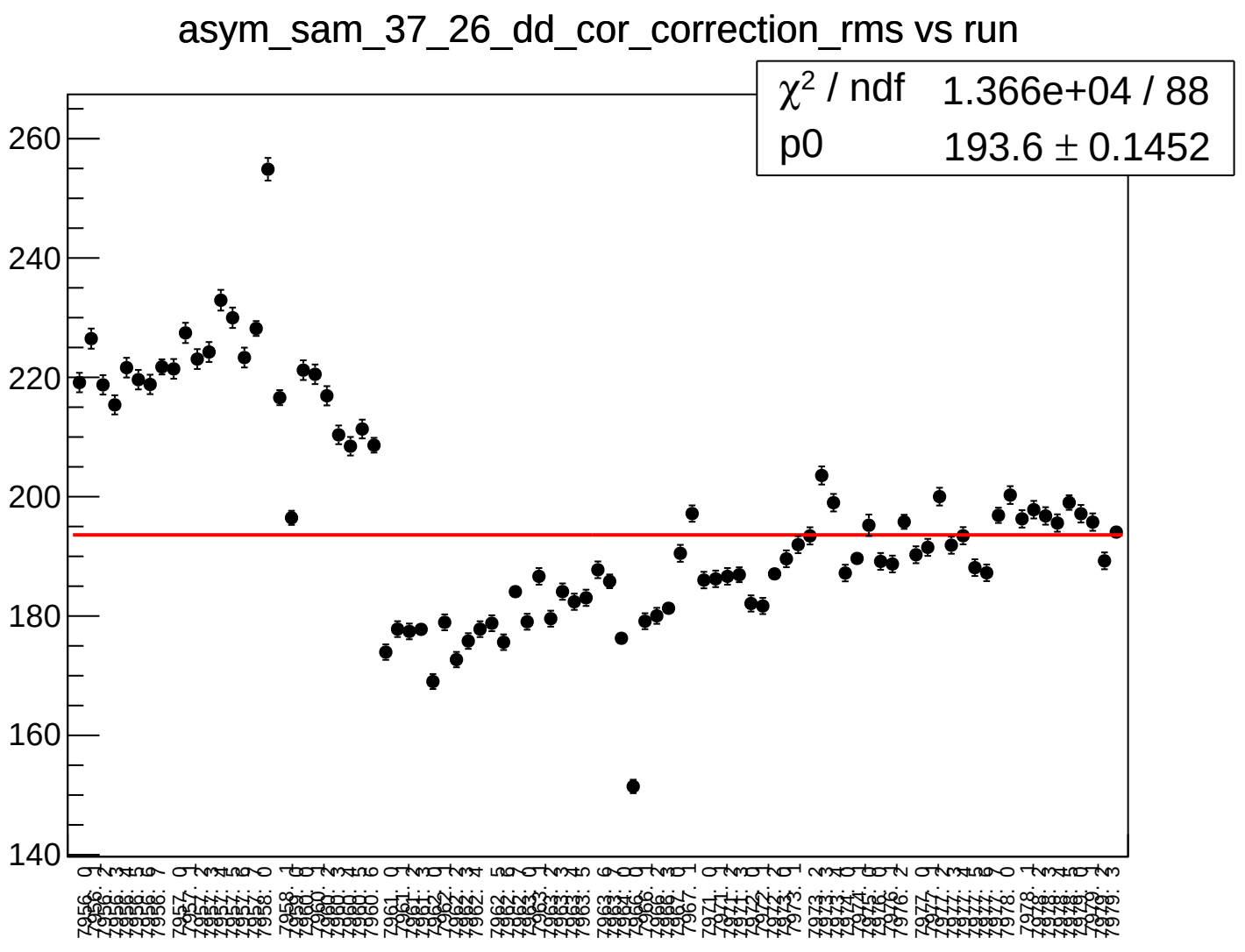

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1.366e+04 / 88
p0 193.6 ± 0.1452
260
240
220
200
180
160
140

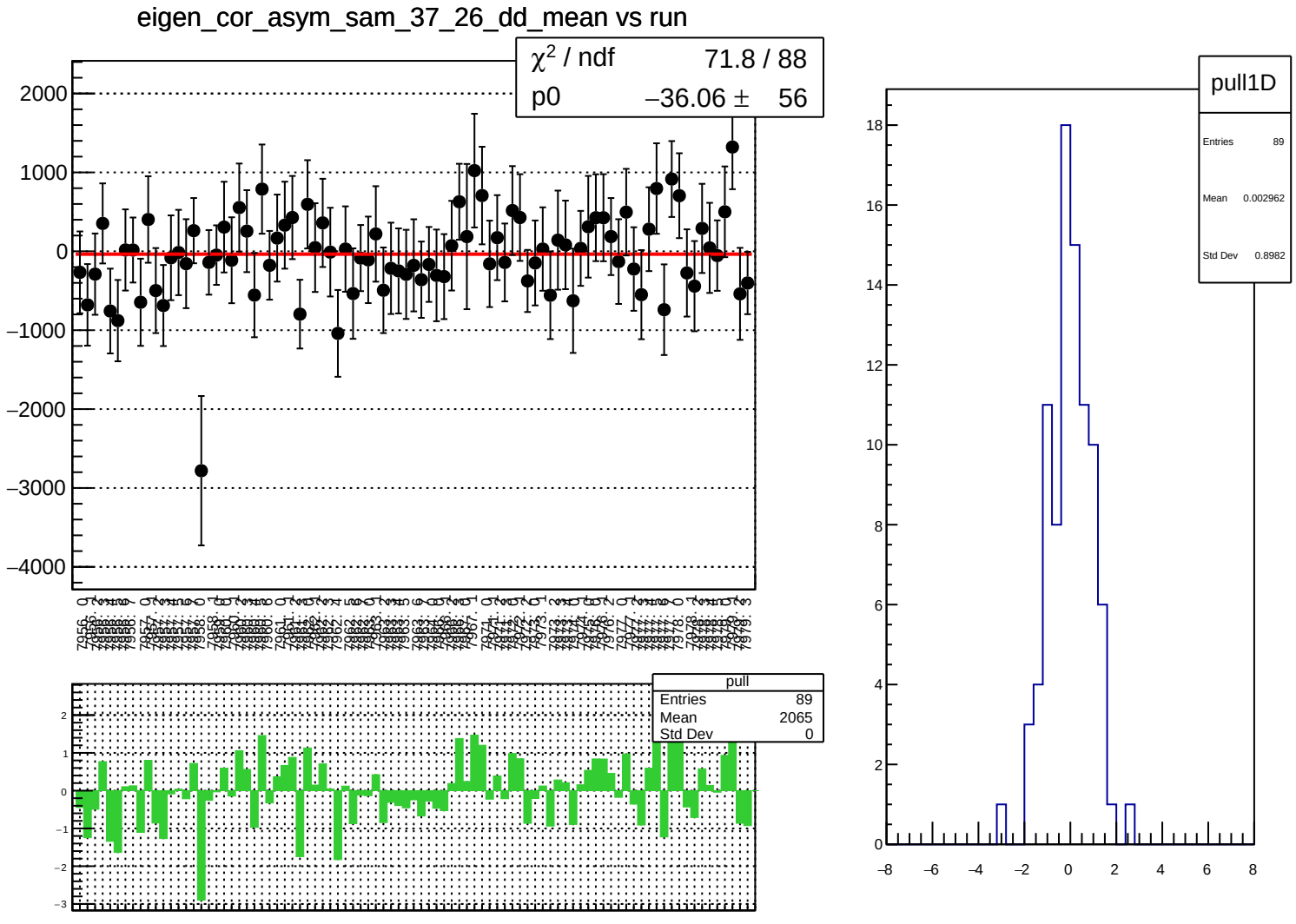

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 71.8 / 88
p0 −36.06 ± 56
pull
Entries 89
Mean 2065
Std Dev 0

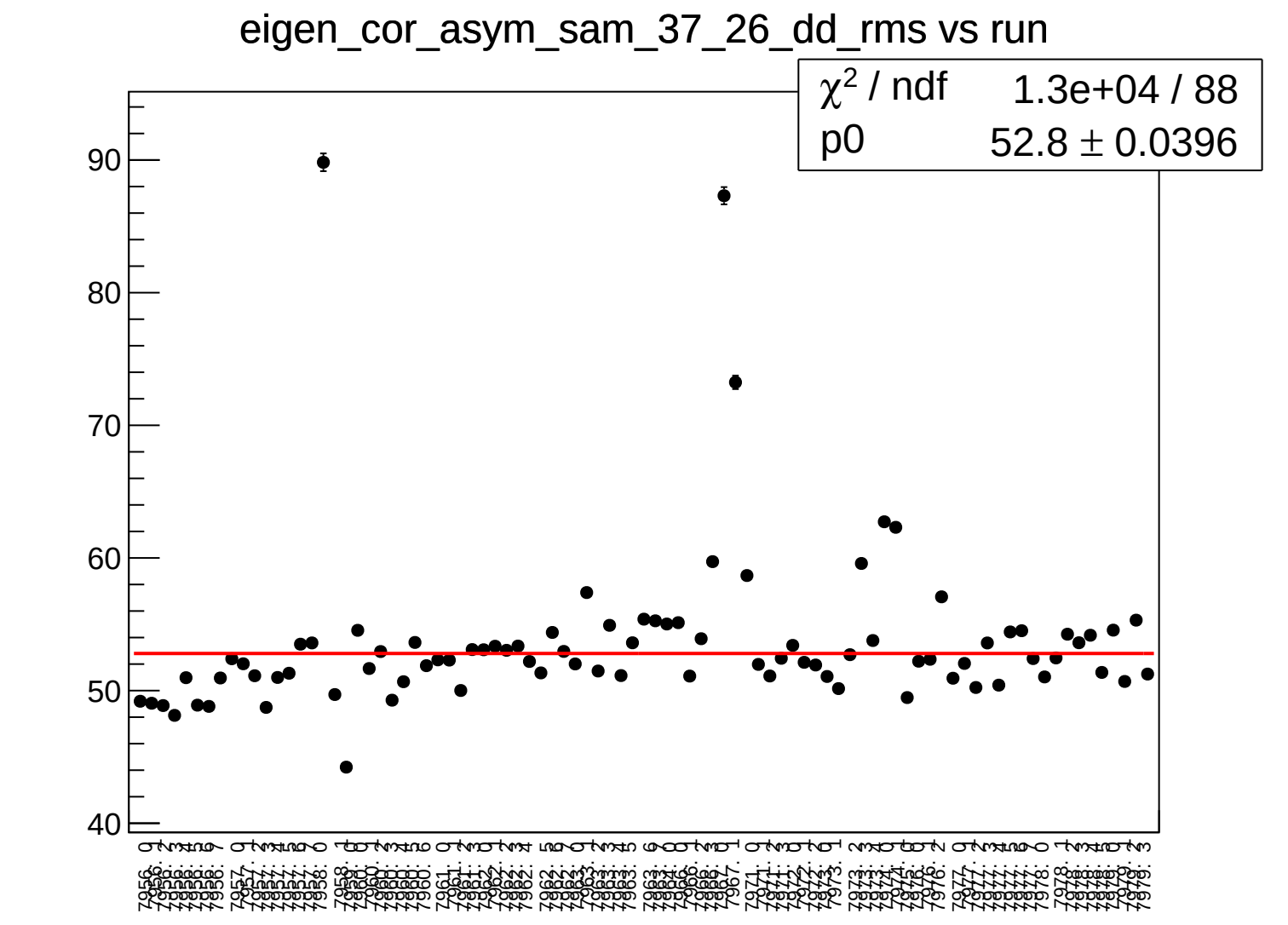

pull1D
Entries 89
Mean 0.002962
Std Dev 0.8982

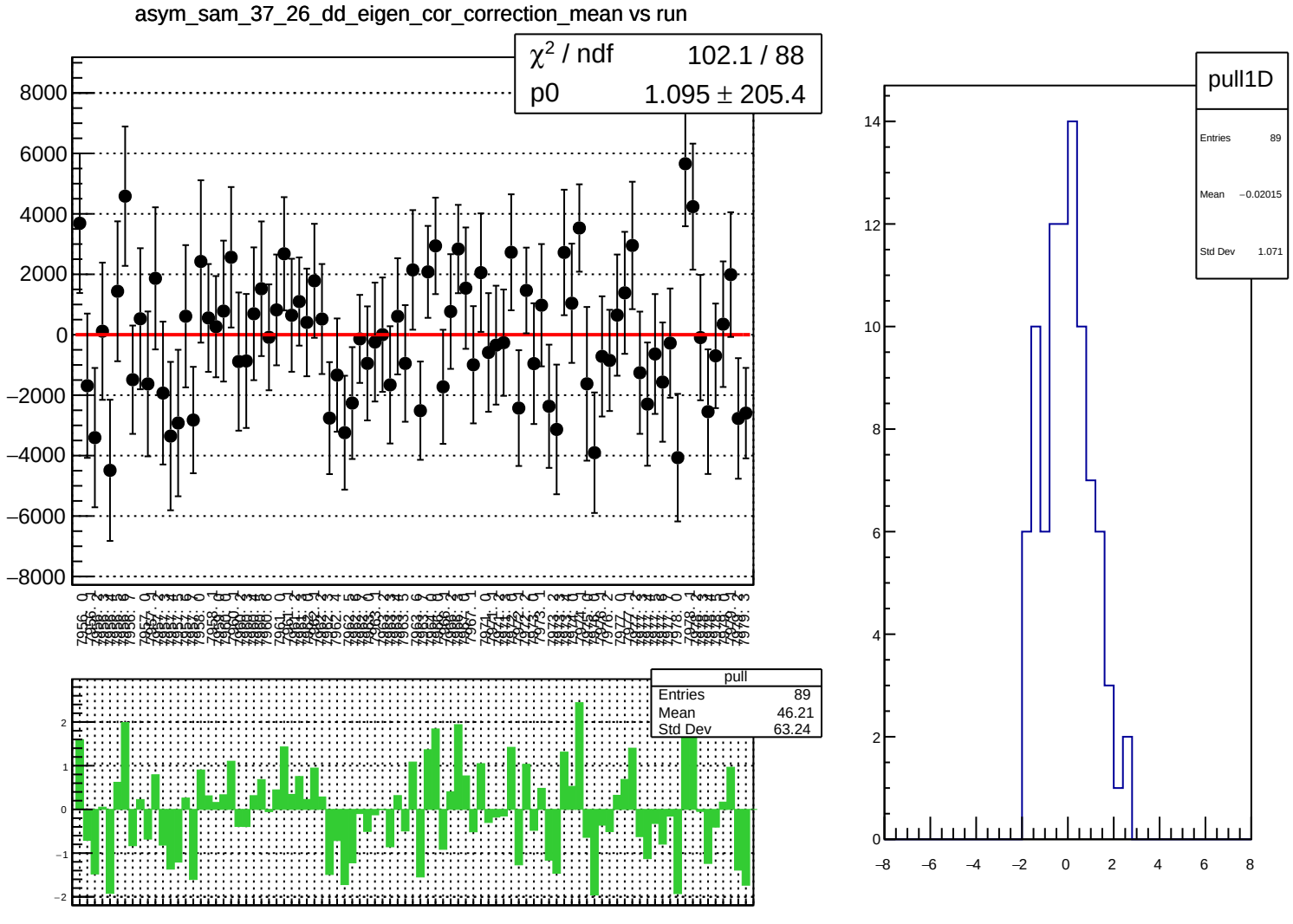

cor_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 1.3e+04 / 88
p0 52.8 ± 0.0396
90
80
70
60
50
40

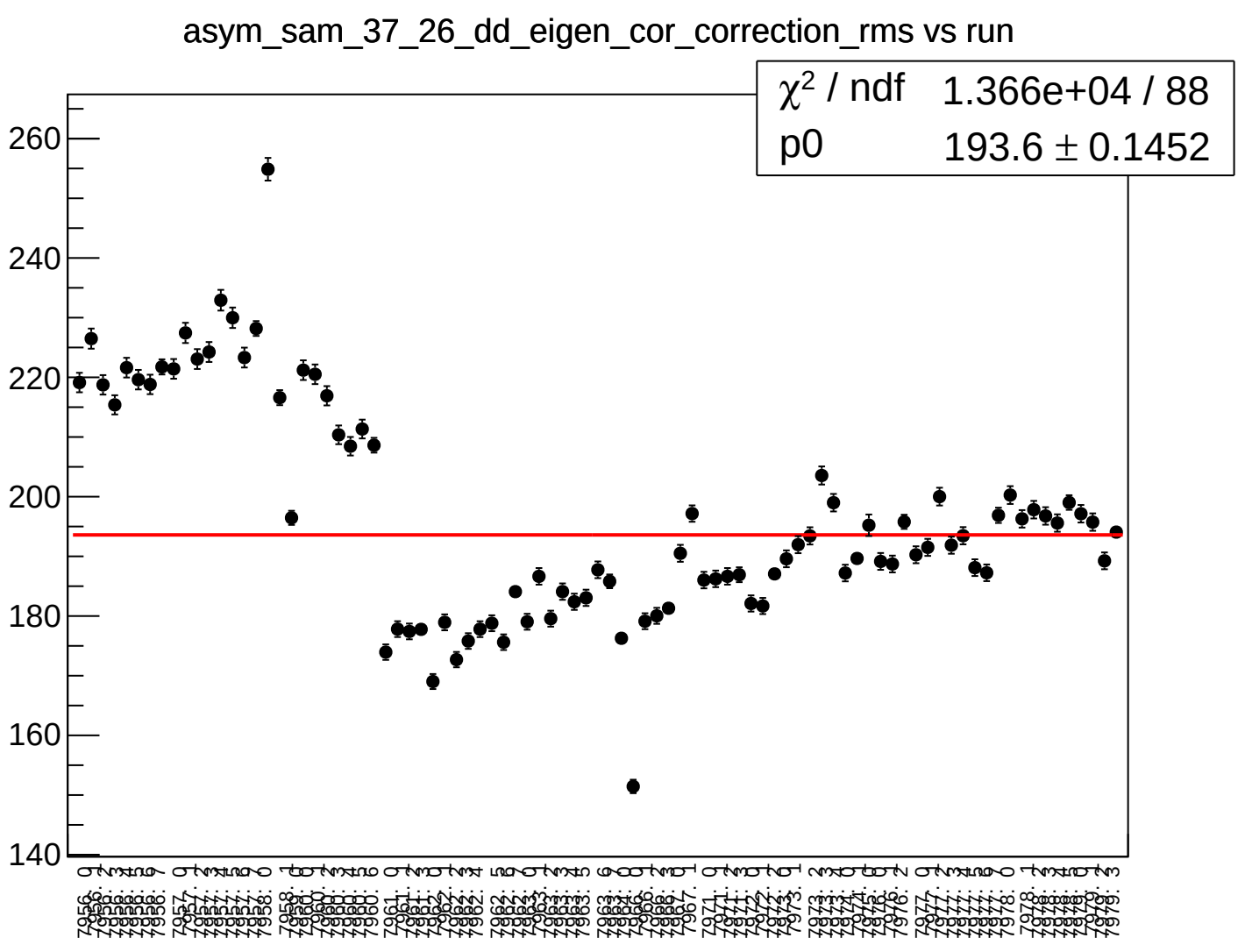

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 102.1 / 88
p0 1.095 ± 205.4
pull
Entries 89
Mean 46.21
Std Dev 63.24
pull1D
Entries 89
Mean −0.02015
Std Dev 1.071

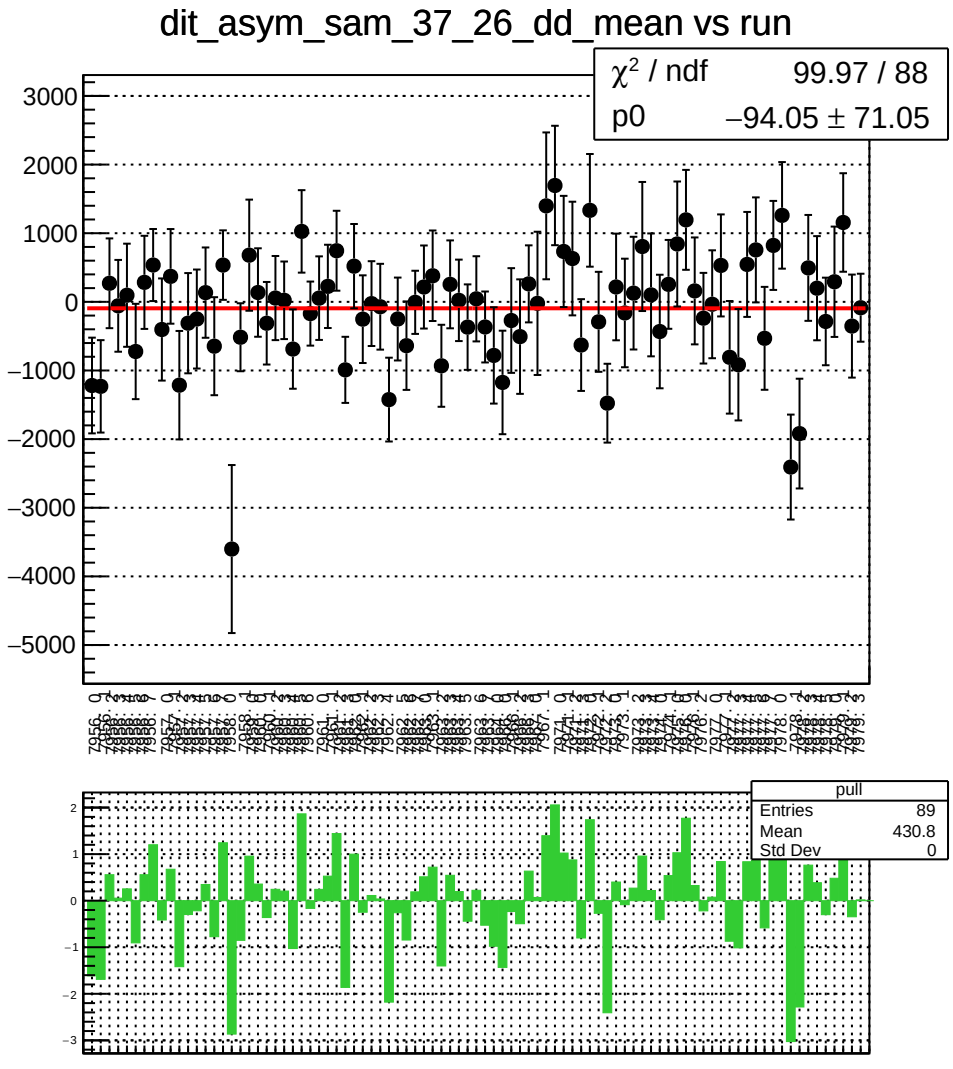

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 1.366e+04 / 88
p0 193.6 ± 0.1452
260
240
220
200
180
160
140

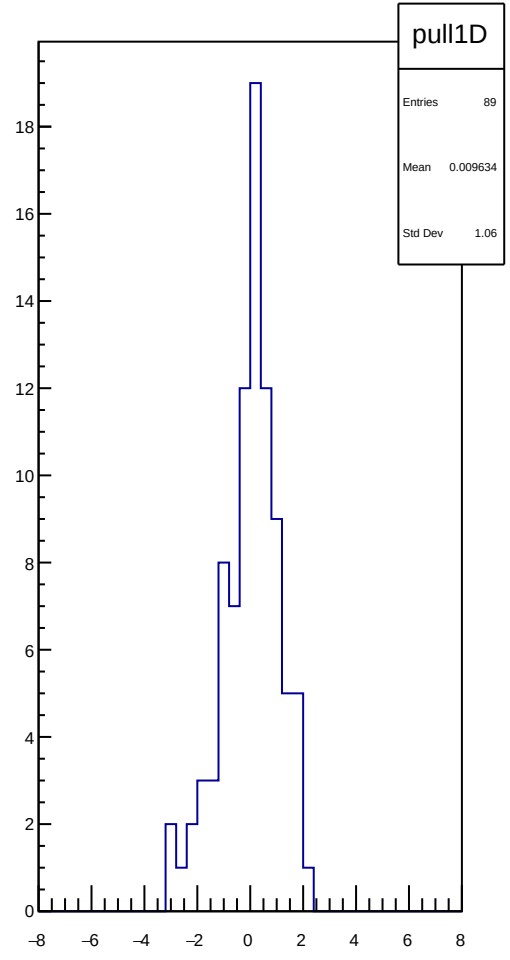

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 71.8 / 88
p0 −36.06 ± 56
pull
Entries 89
Mean 2065
Std Dev 0
pull1D
Entries 89
Mean 0.002962
Std Dev 0.8982

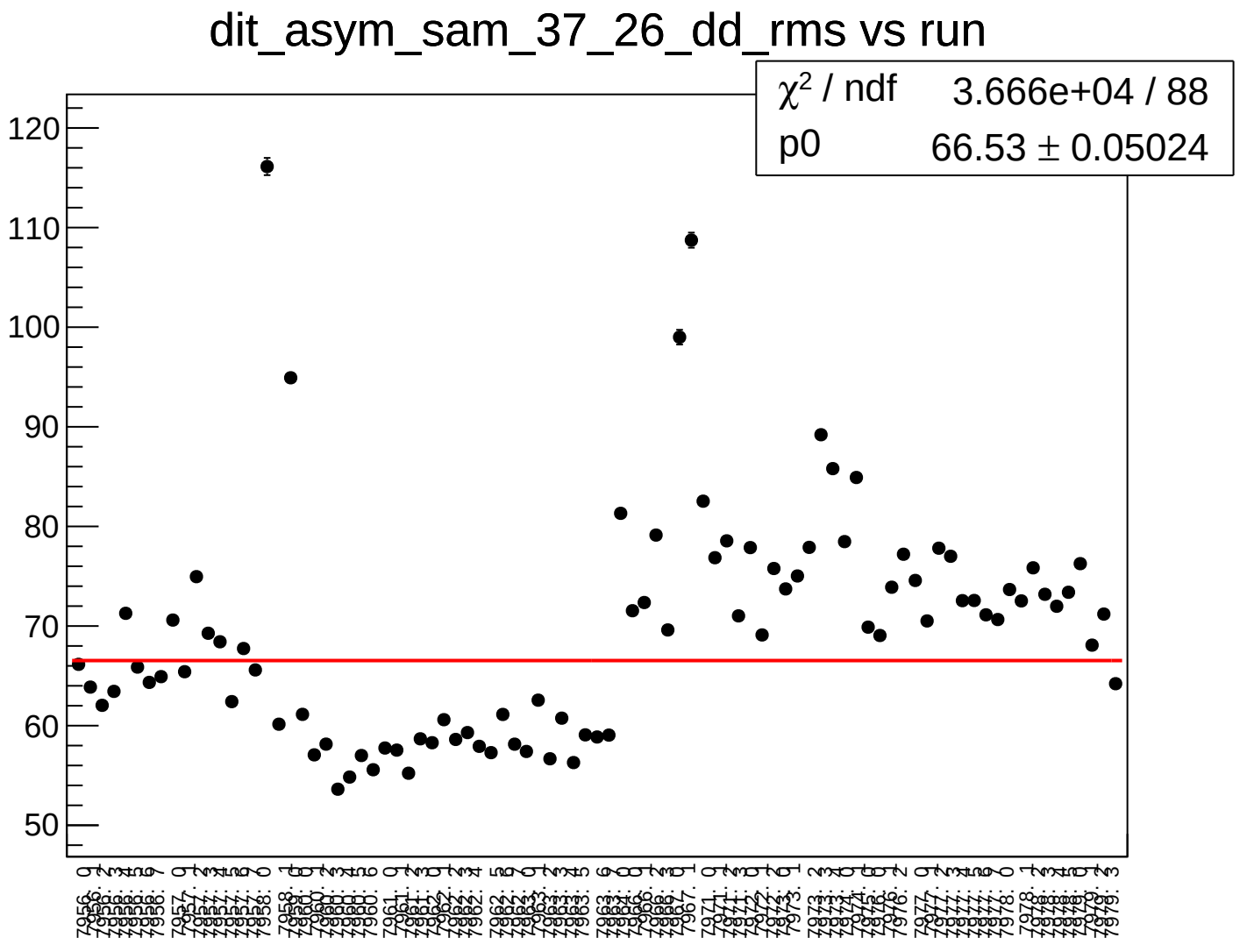

eigen_cor_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 1.3e+04 / 88
p0 52.8 ± 0.0396
90
80
70
60
50
40

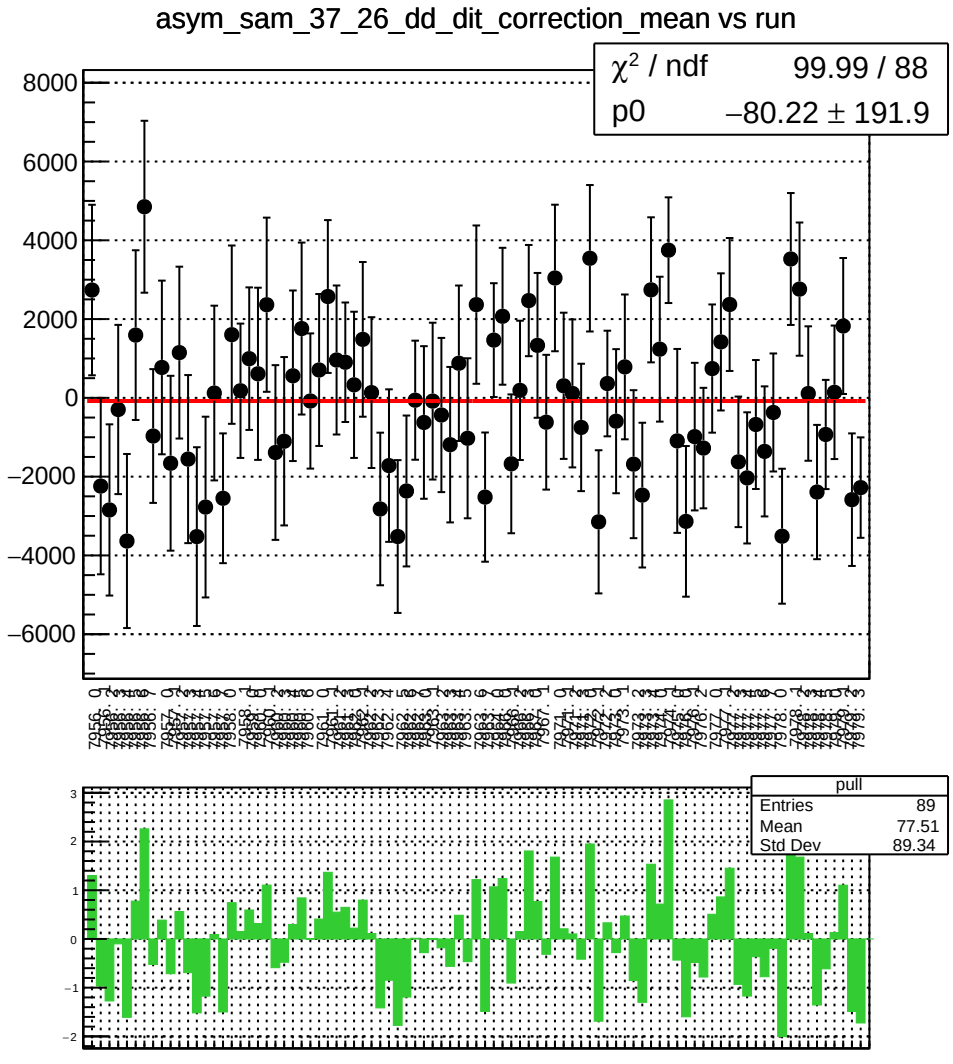

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.1 / 88
p0 1.095 ± 205.4
pull
Entries 89
Mean 46.21
Std Dev 63.24
pull1D
Entries 89
Mean −0.02015
Std Dev 1.071

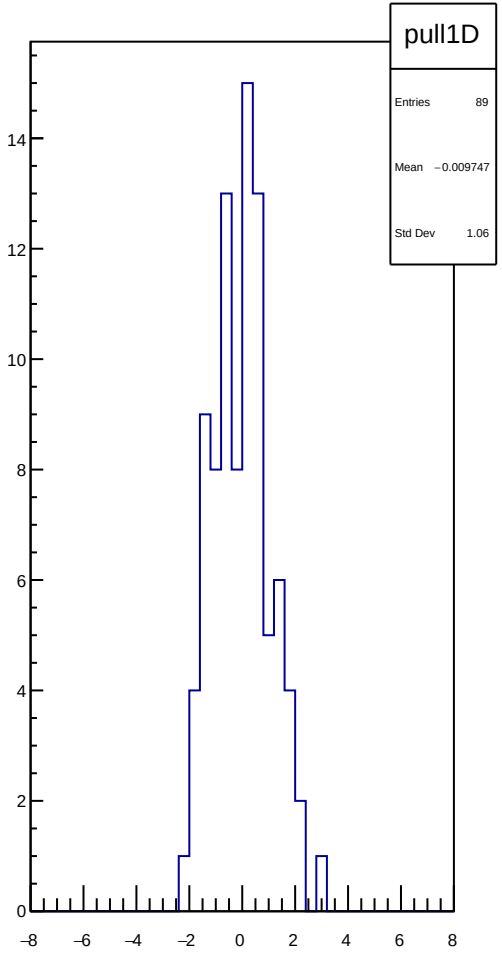

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.366e+04 / 88
p0 193.6 ± 0.1452
260
240
220
200
180
160
140

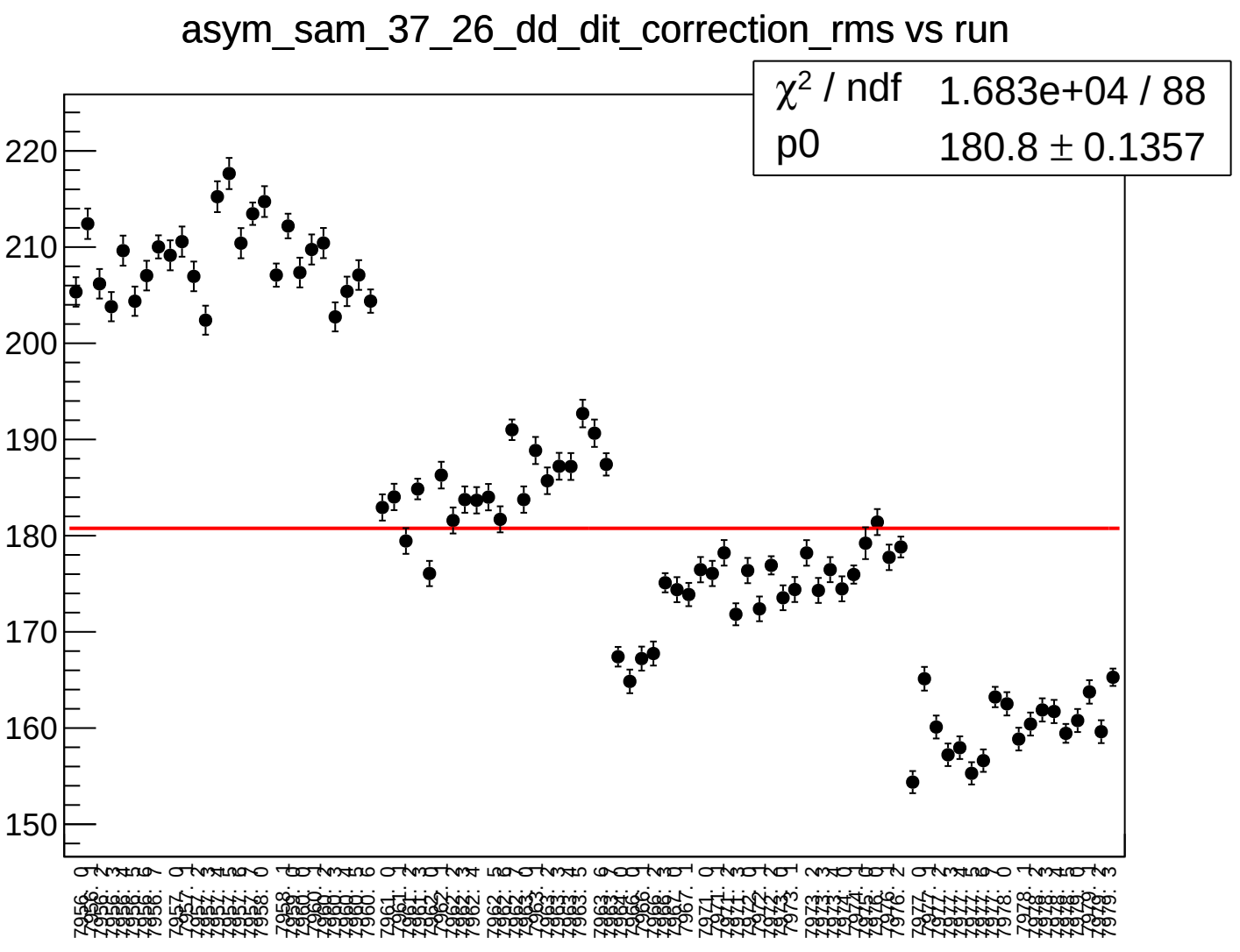

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 99.97 / 88
p0 −94.05 ± 71.05
pull
Entries 89
Mean 430.8
Std Dev 0

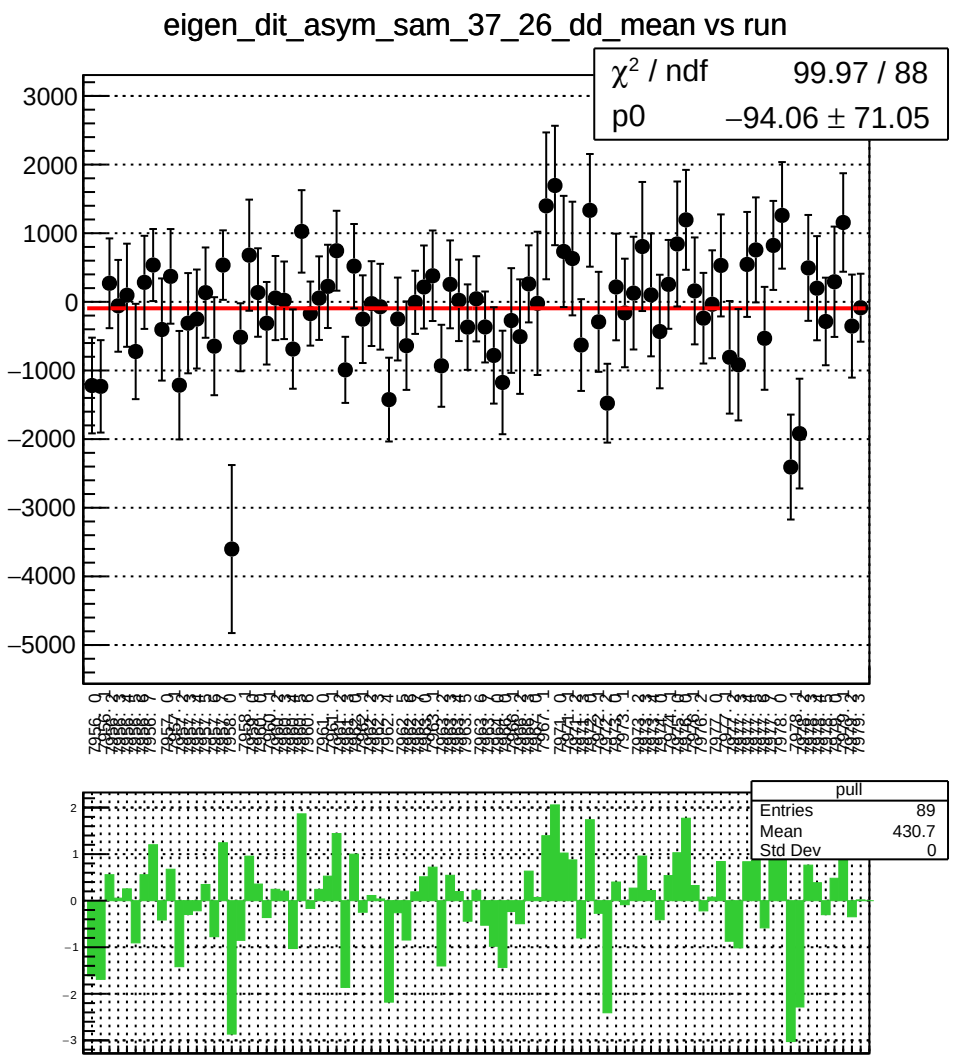

pull1D
Entries 89
Mean 0.009634
Std Dev 1.06

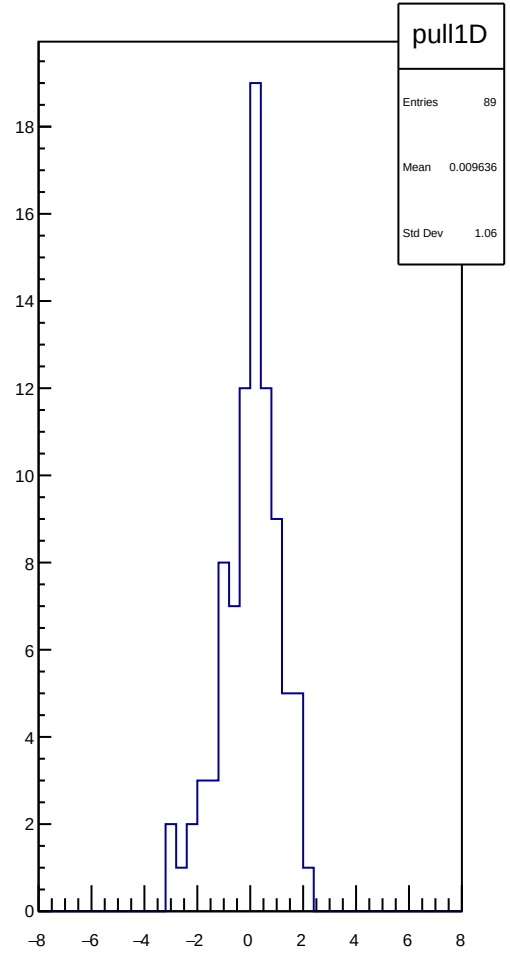

dit_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 3.666e+04 / 88
p0 66.53 ± 0.05024
120
110
100
90
80
70
60
50

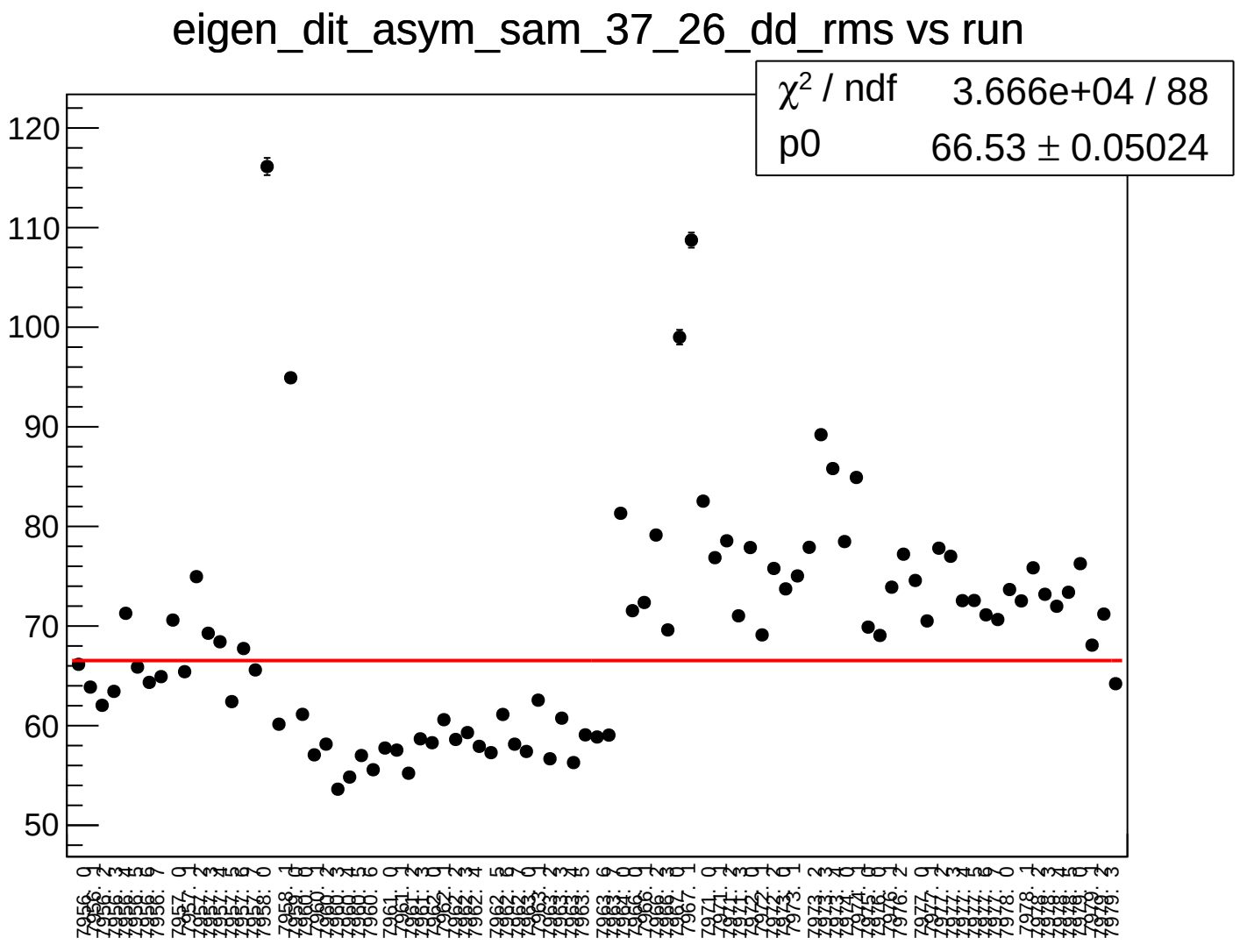

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 99.99 / 88
p0 −80.22 ± 191.9
pull
Entries 89
Mean 77.51
Std Dev 89.34

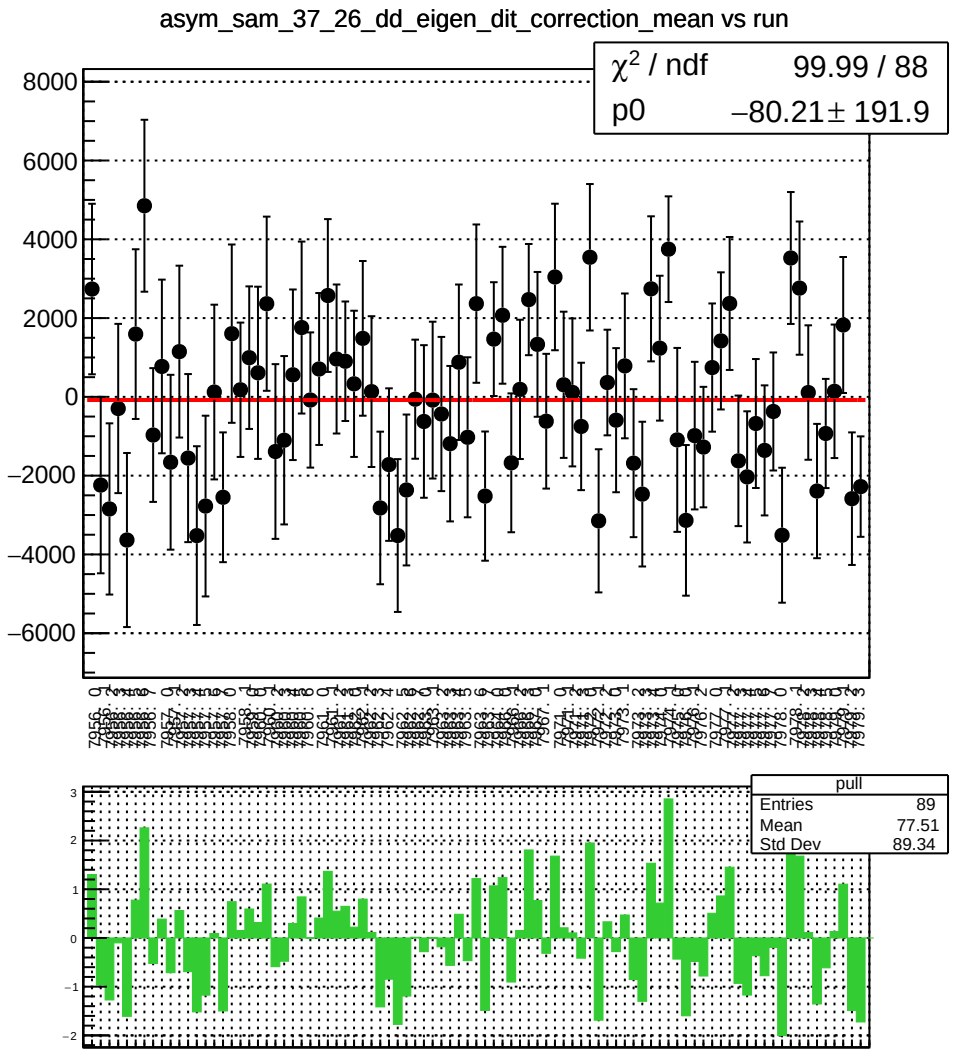

pull1D
Entries 89
Mean −0.009747
Std Dev 1.06

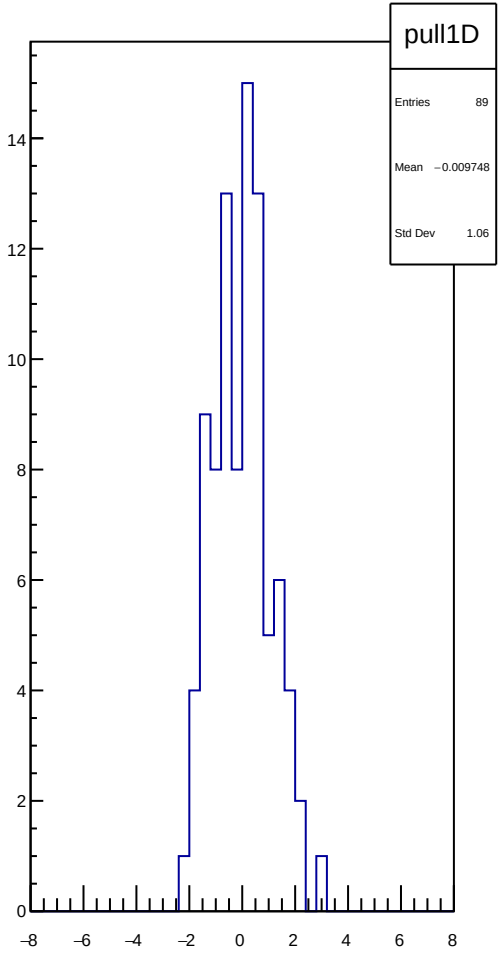

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1.683e+04 / 88
p0 180.8 ± 0.1357
220
210
200
190
180
170
160
150

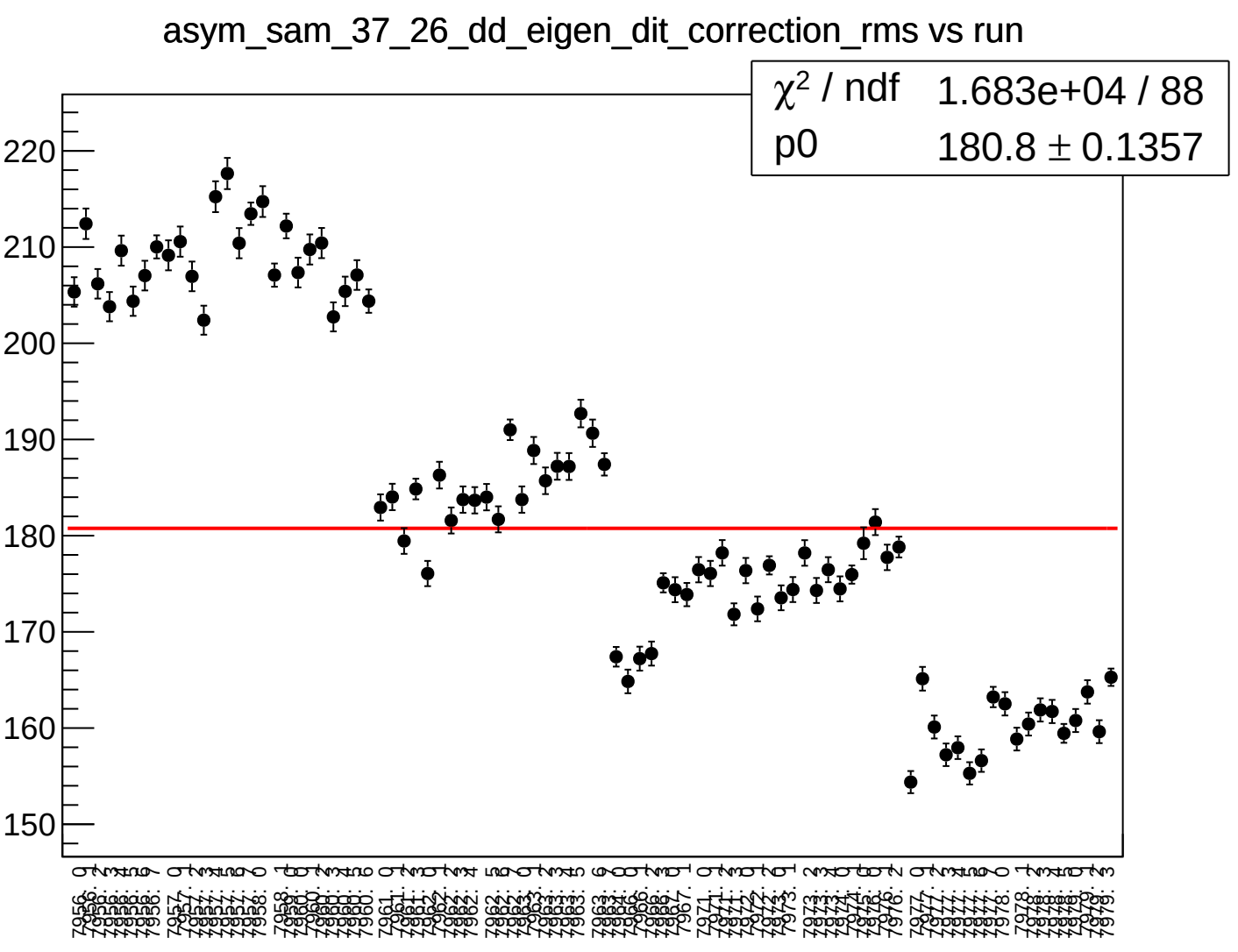

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 99.97 / 88
p0 −94.06 ± 71.05
pull
Entries 89
Mean 430.7
Std Dev 0

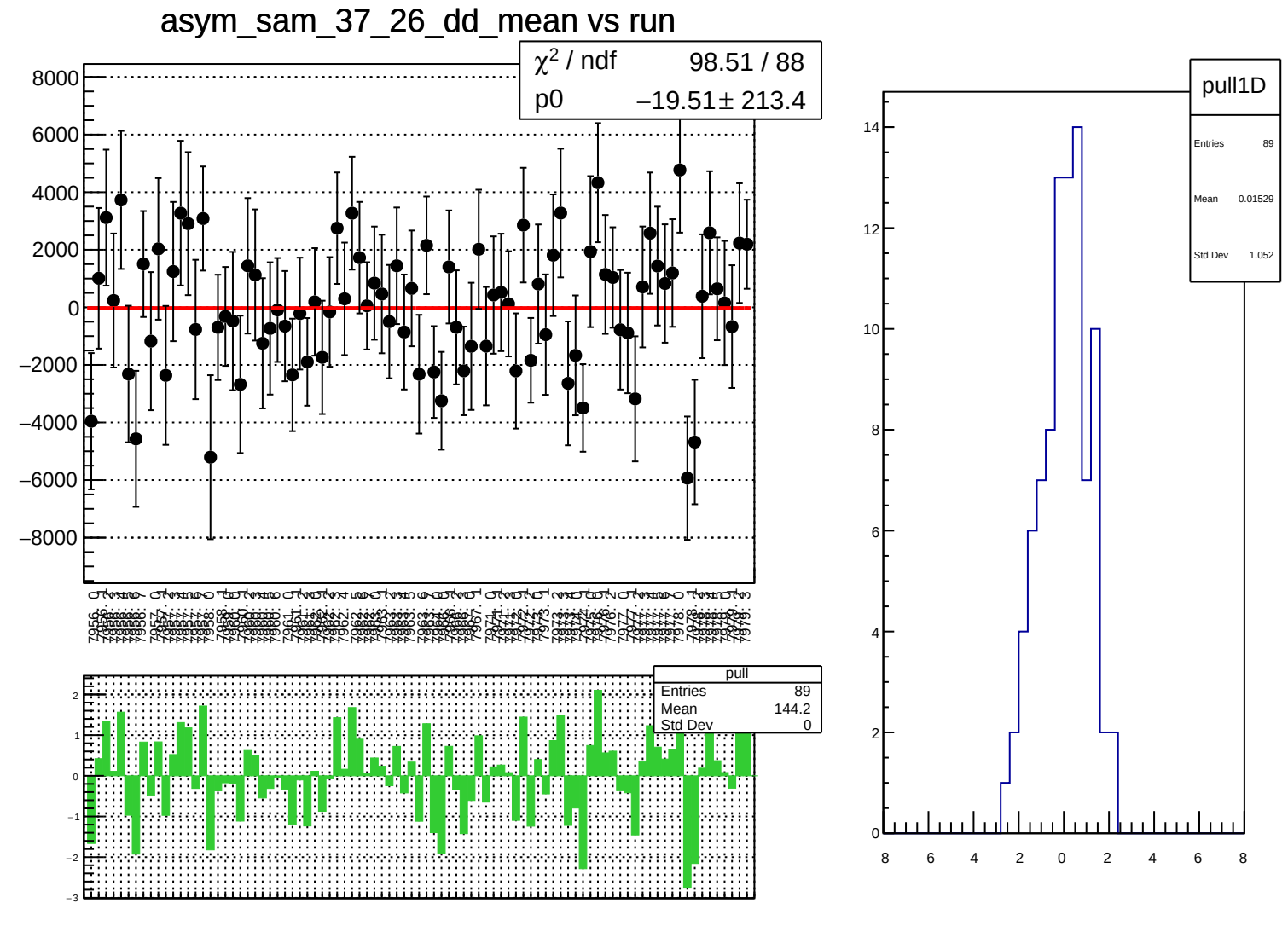

pull1D
Entries 89
Mean 0.009636
Std Dev 1.06

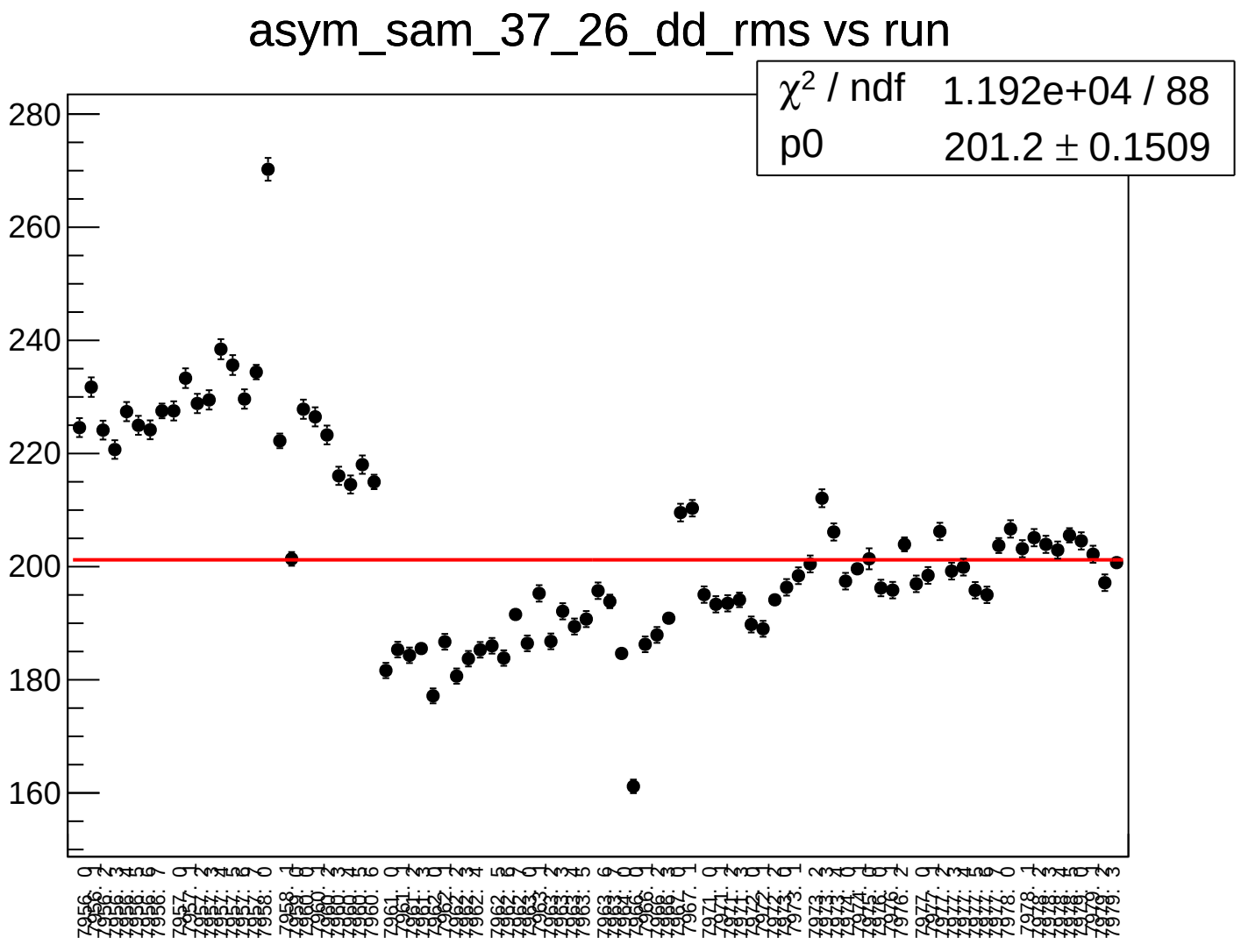

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 3.666e+04 / 88
p0 66.53 ± 0.05024
120
110
100
90
80
70
60
50

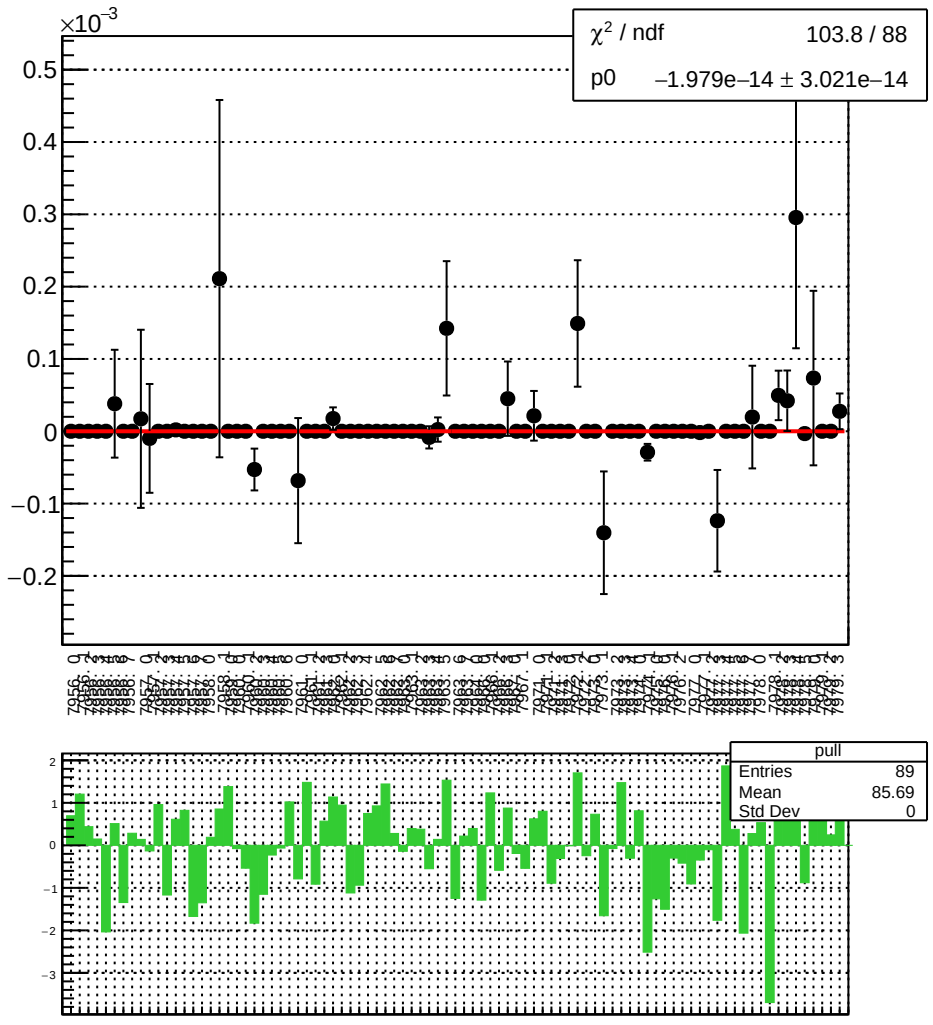

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.99 / 88
p0 −80.21± 191.9
pull
Entries 89
Mean 77.51
Std Dev 89.34

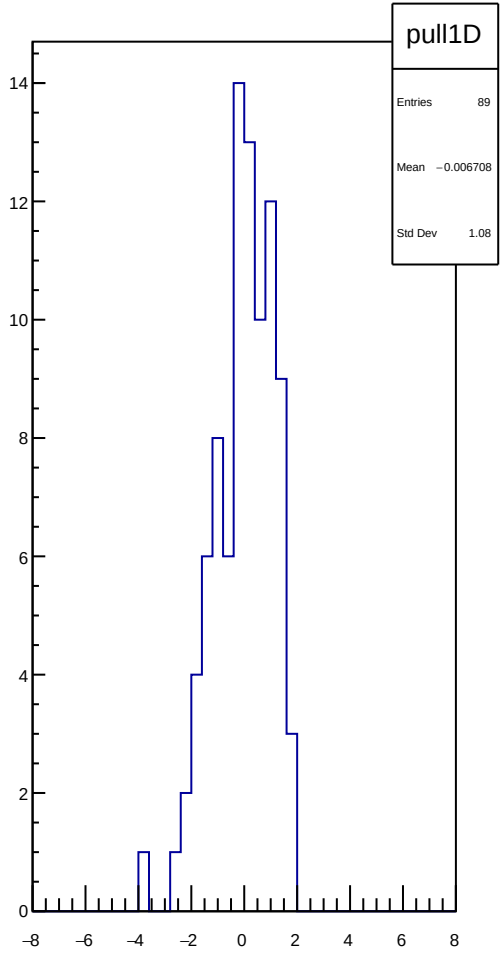

pull1D
Entries 89
Mean −0.009748
Std Dev 1.06

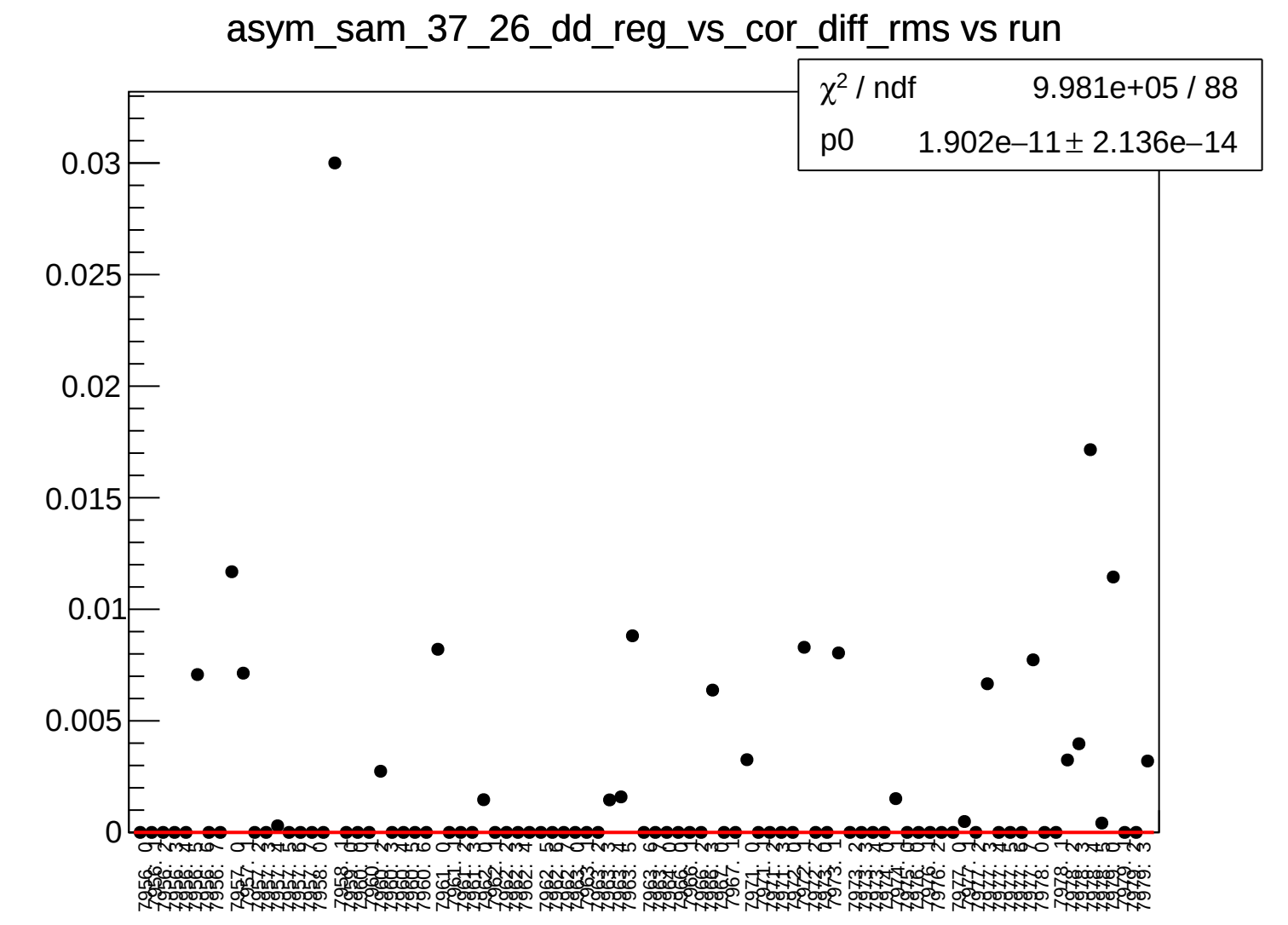

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 1.683e+04 / 88
p0 180.8 ± 0.1357
220
210
200
190
180
170
160
150

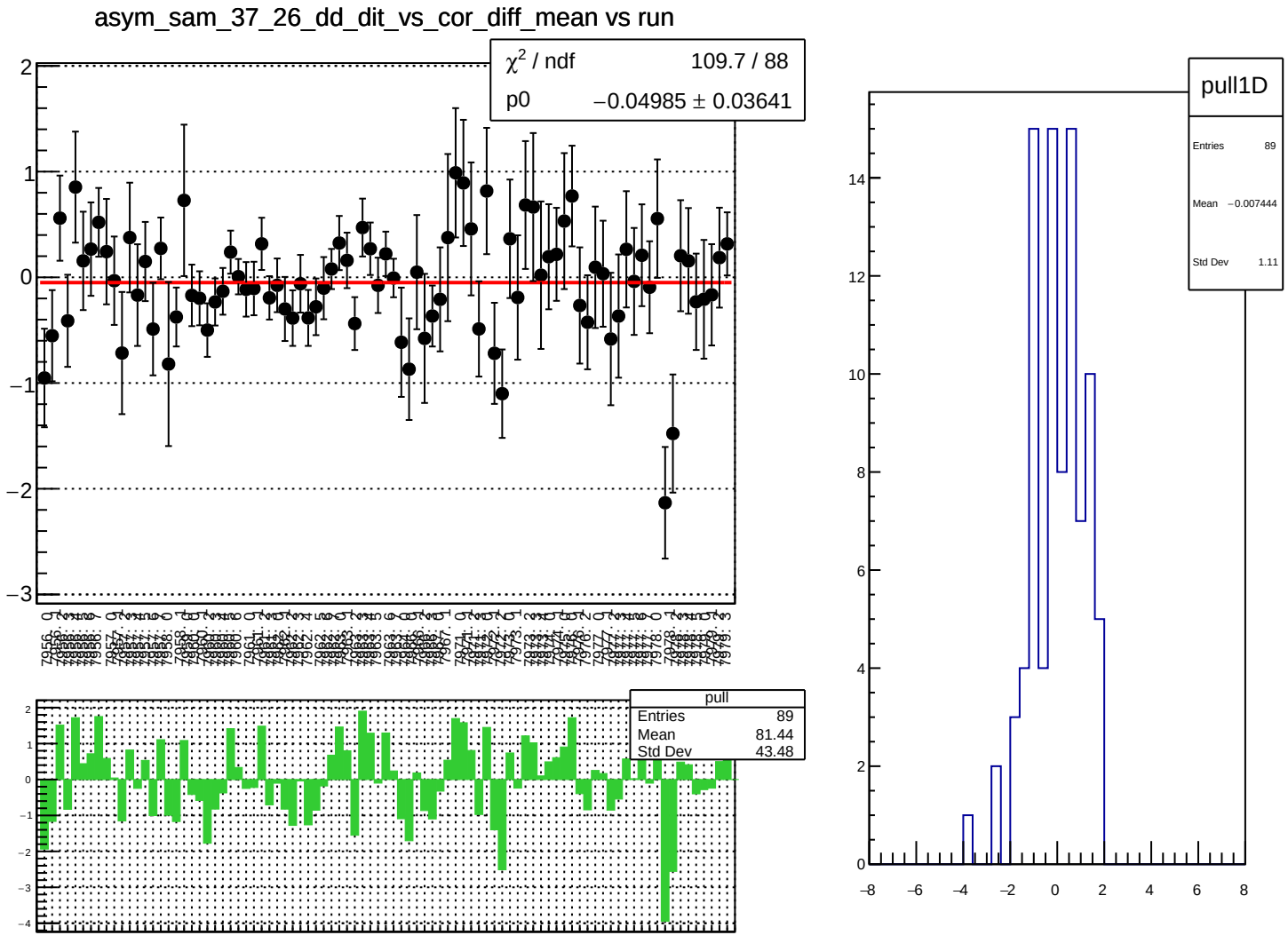

asym_sam_37_26_dd_mean vs run
χ² / ndf 98.51 / 88
p0 −19.51 ± 213.4
pull
Entries 89
Mean 144.2
Std Dev 0
pull1D
Entries 89
Mean 0.01529
Std Dev 1.052

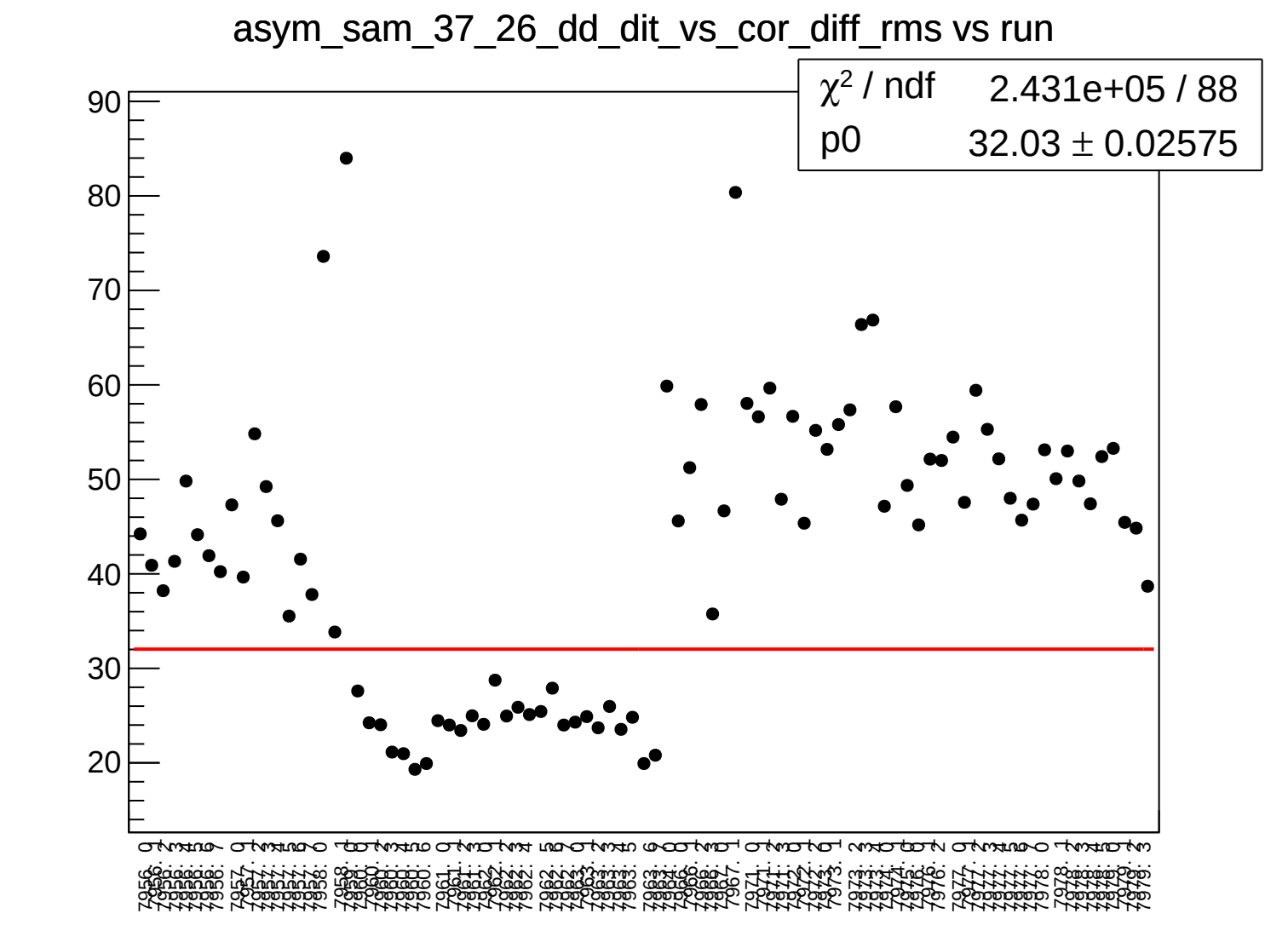

asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 1.192e+04 / 88
p0 201.2 ± 0.1509
280
260
240
220
200
180
160

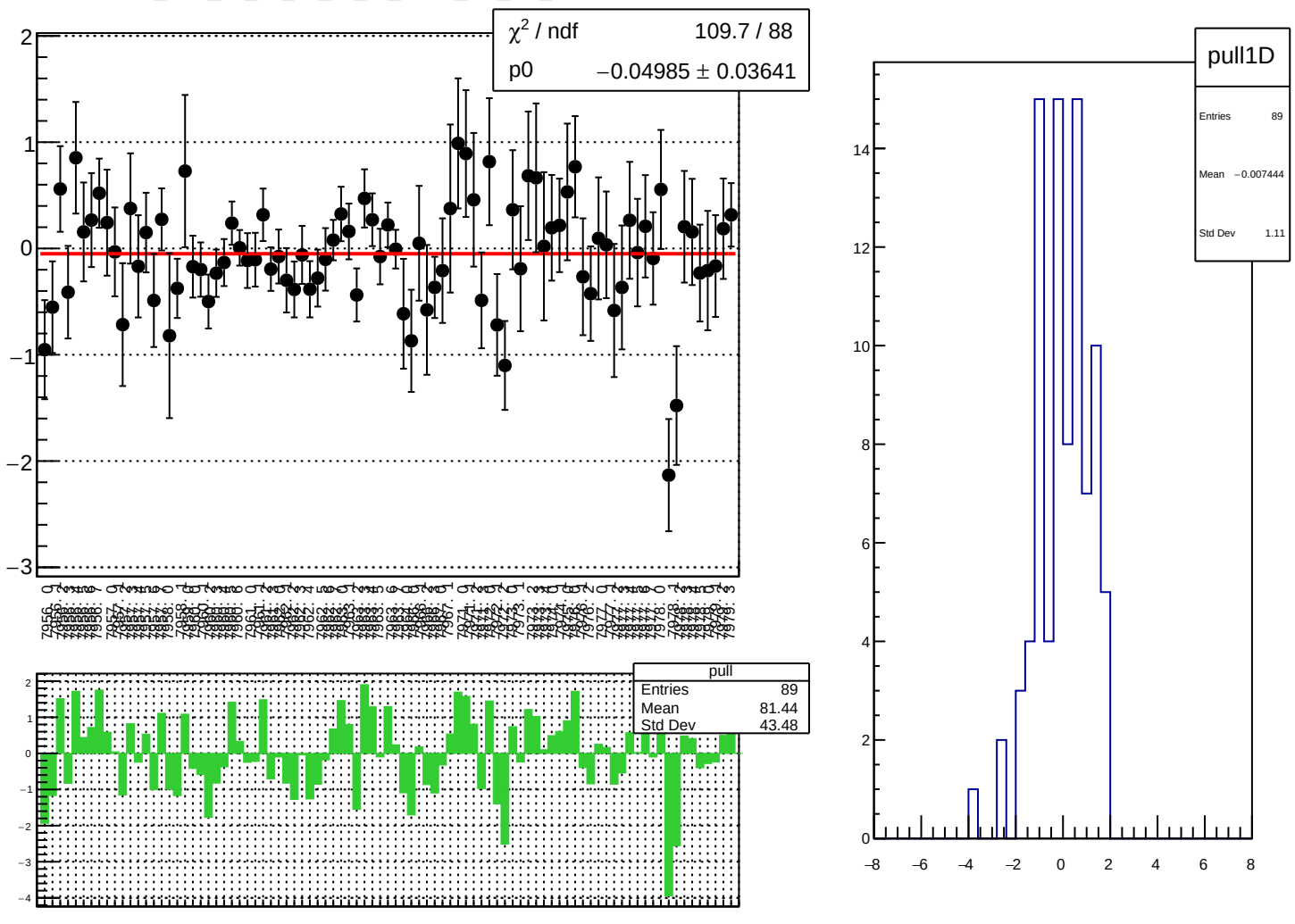

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 103.8 / 88
p0 −1.979e−14 ± 3.021e−14
pull
Entries 89
Mean 85.69
Std Dev 0

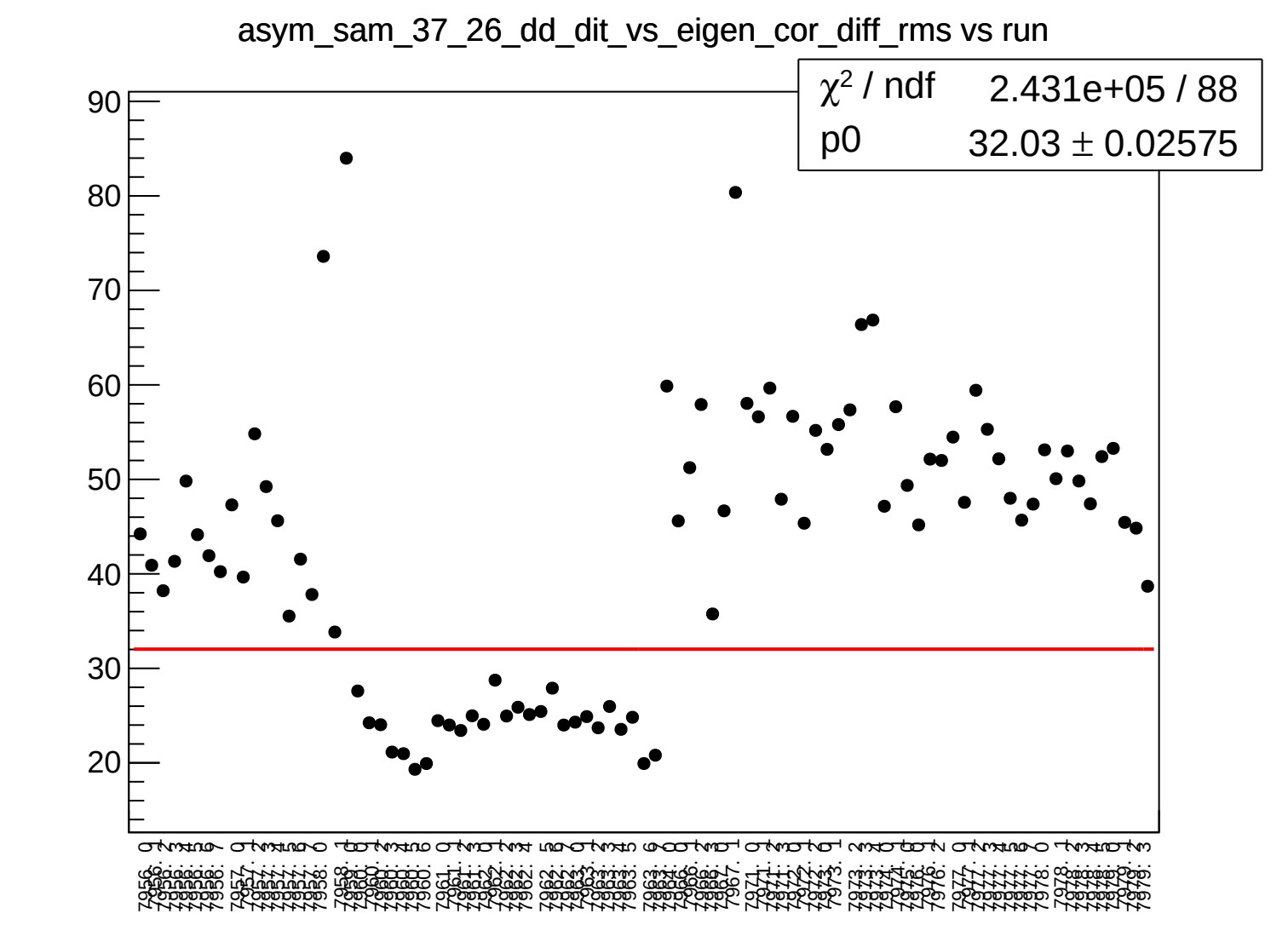

pull1D
Entries 89
Mean −0.006708
Std Dev 1.08

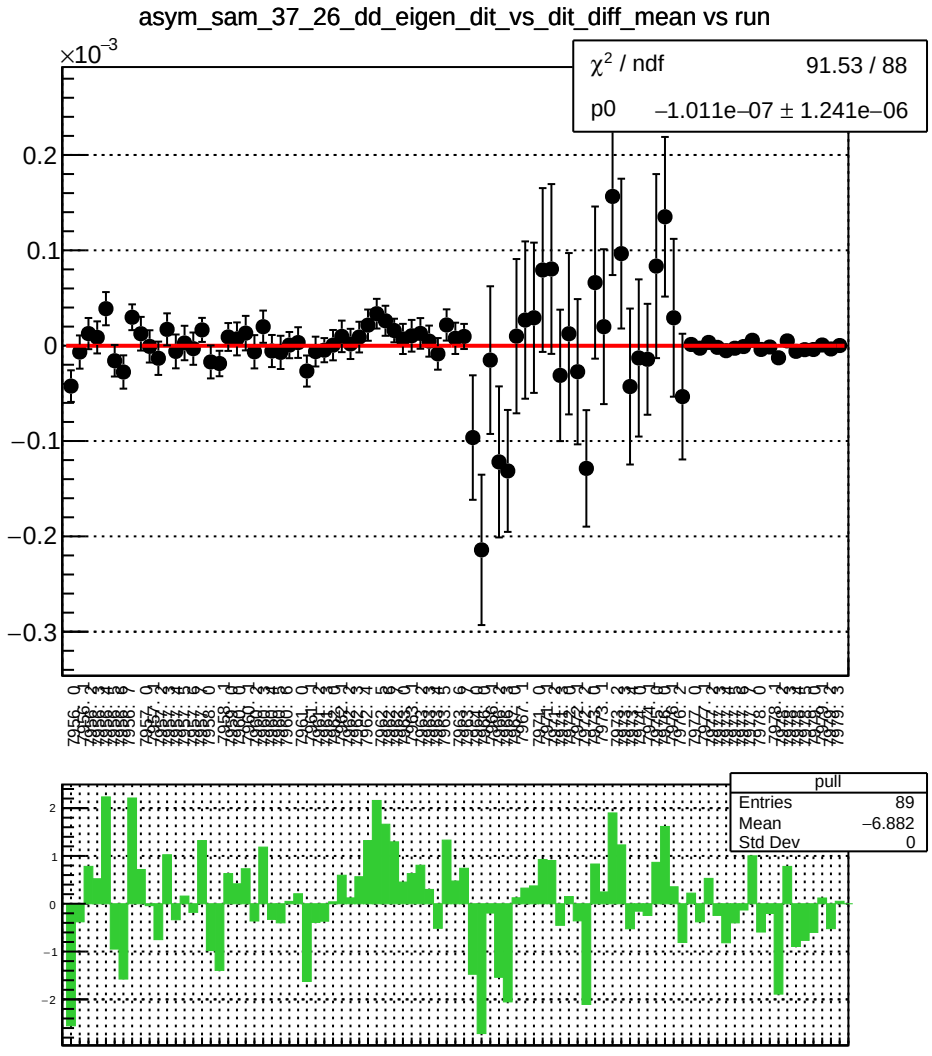

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.981e+05 / 88
p0 1.902e−11 ± 2.136e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

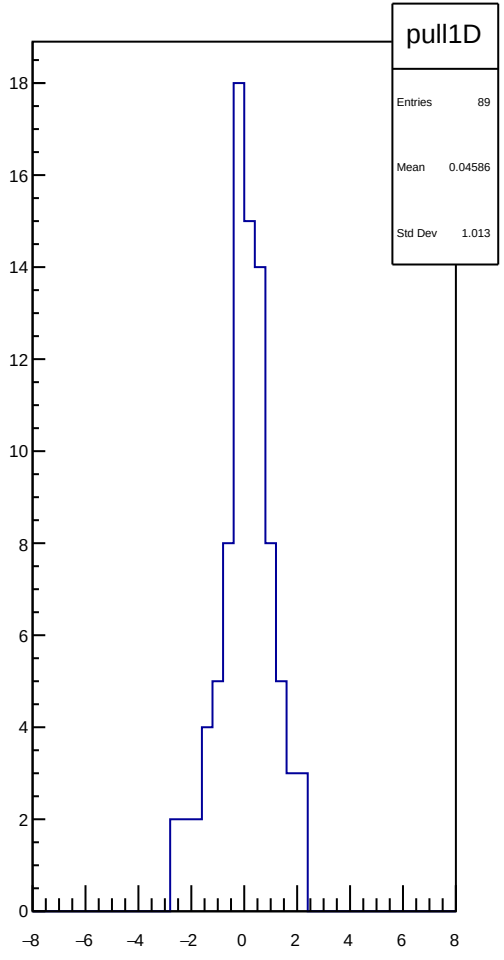

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 88
p0 −0.04985 ± 0.03641
pull
Entries 89
Mean 81.44
Std Dev 43.48
pull1D
Entries 89
Mean −0.007444
Std Dev 1.11

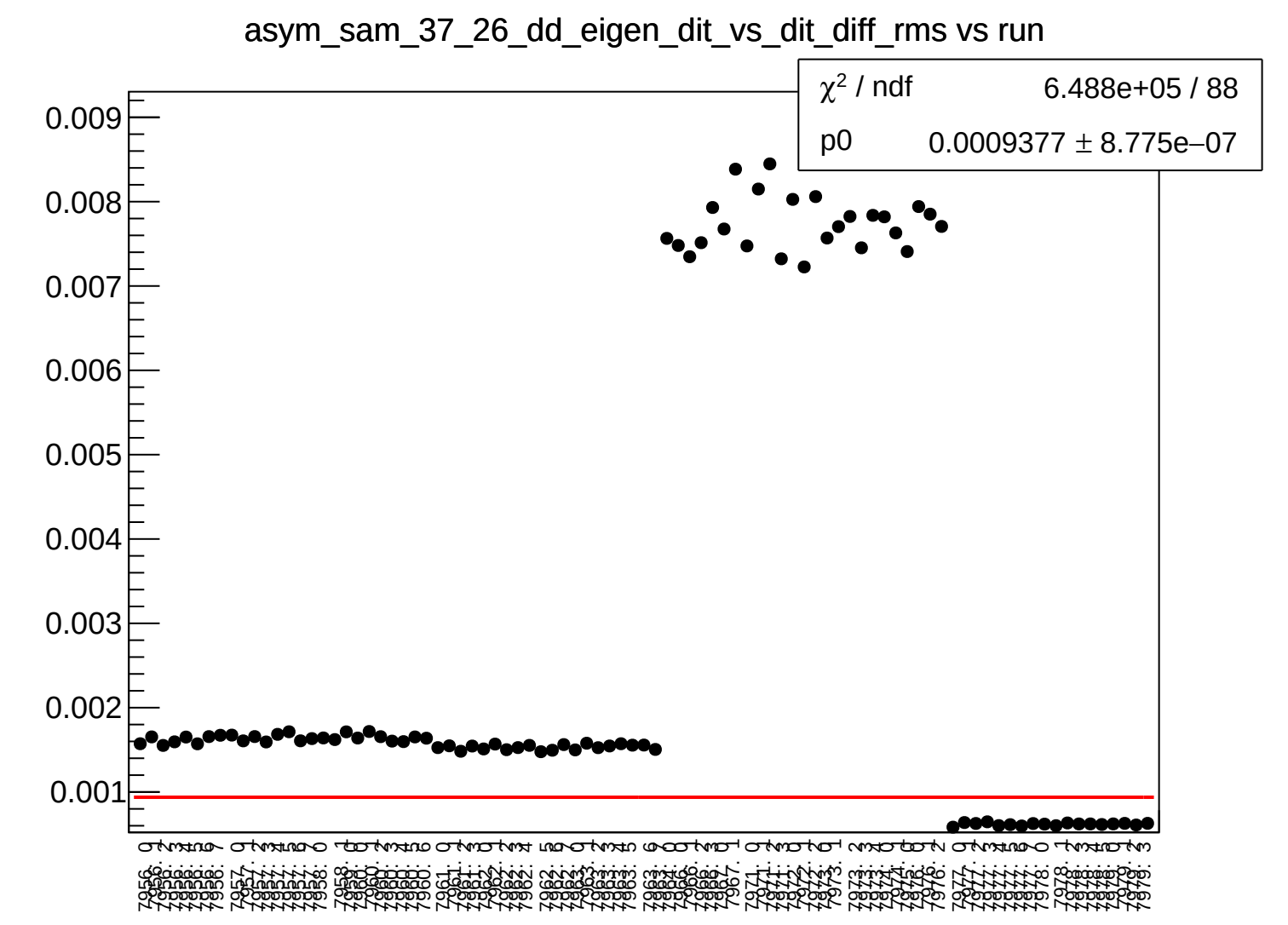

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.431e+05 / 88
p0 32.03 ± 0.02575
90
80
70
60
50
40
30
20

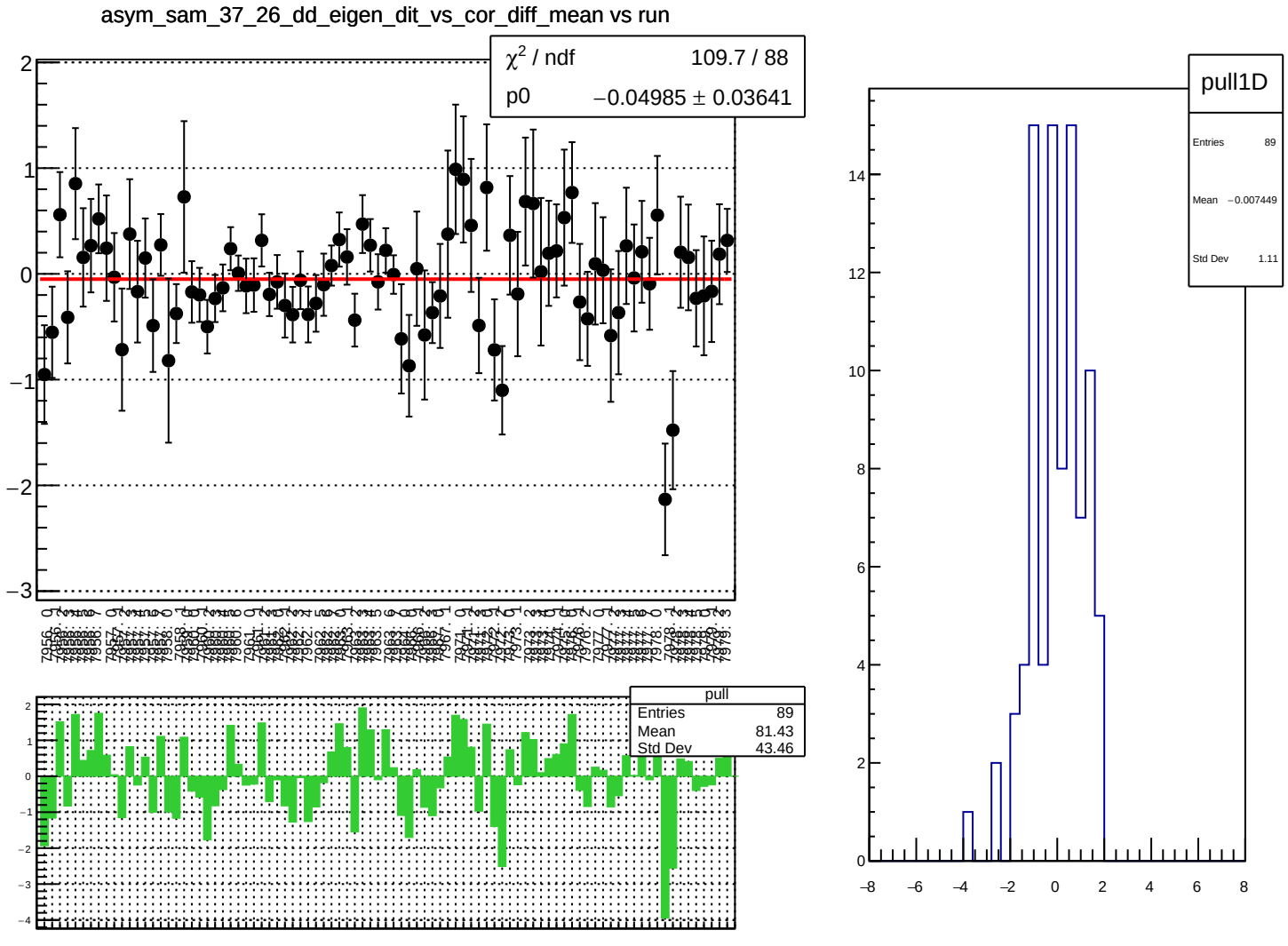

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 88
p0 −0.04985 ± 0.03641
pull
Entries 89
Mean 81.44
Std Dev 43.48
pull1D
Entries 89
Mean −0.007444
Std Dev 1.11

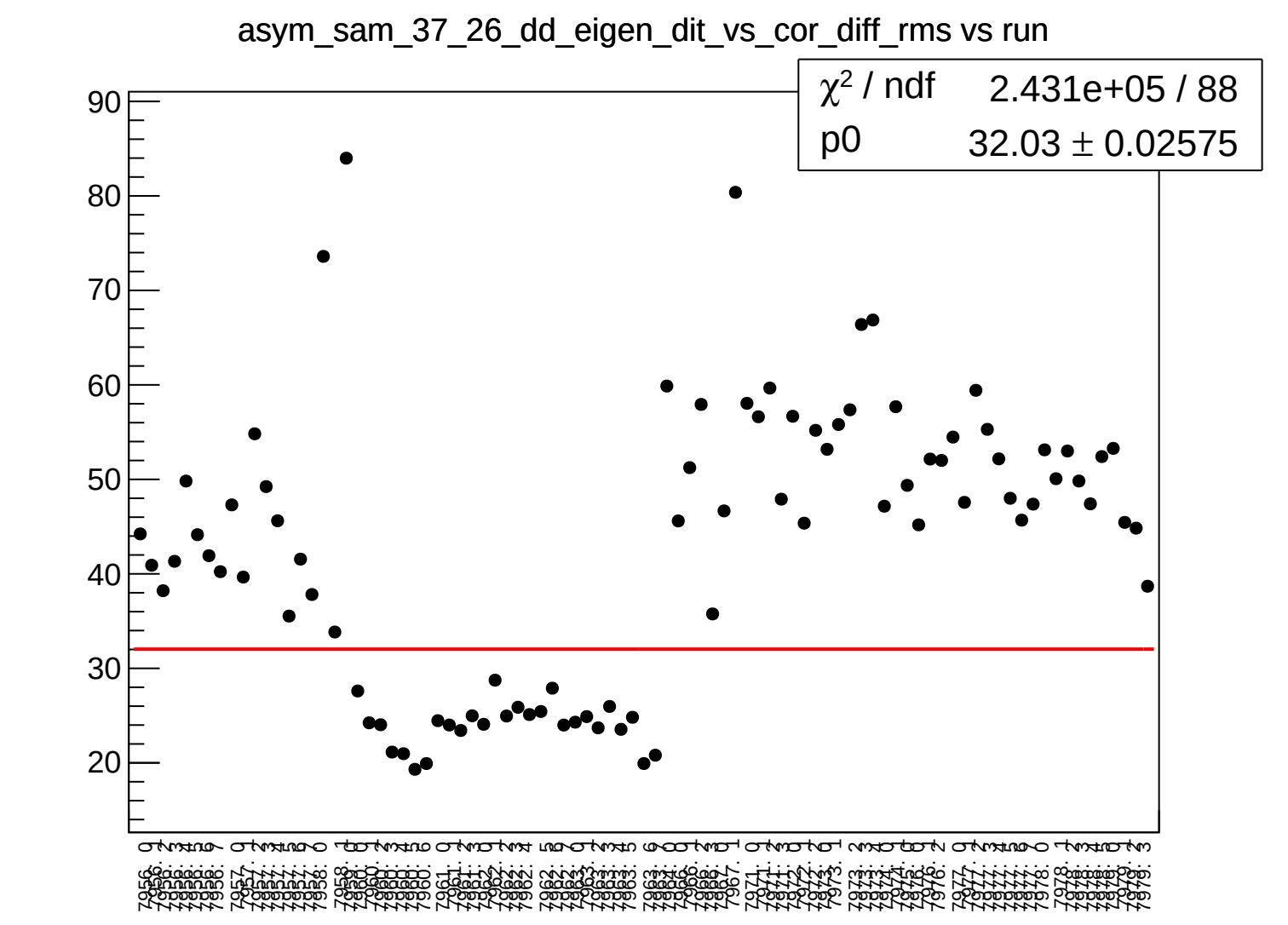

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.431e+05 / 88
p0 32.03 ± 0.02575
90
80
70
60
50
40
30
20

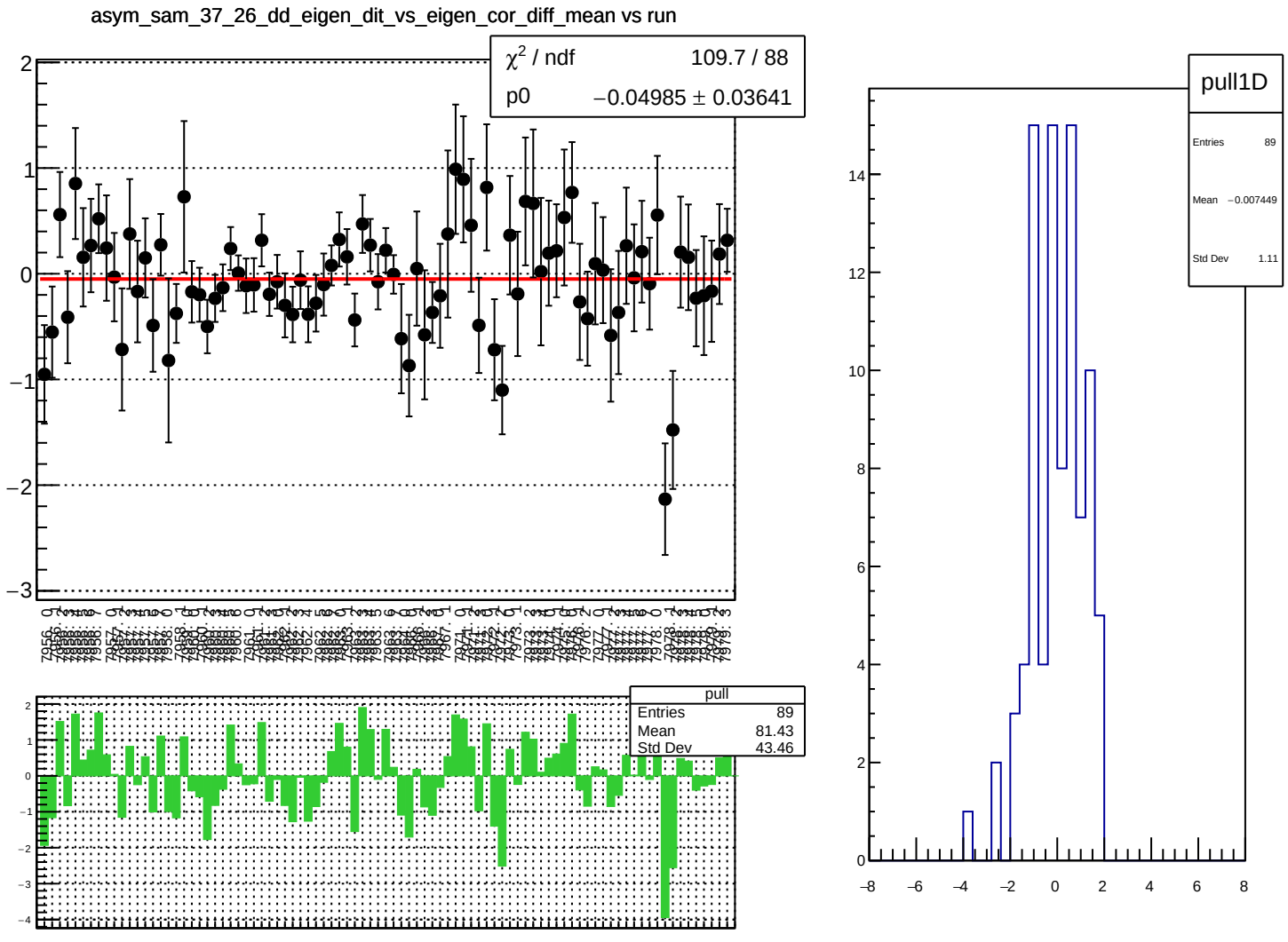

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 91.53 / 88
p0 −1.011e−07 ± 1.241e−06
pull
Entries 89
Mean −6.882
Std Dev 0

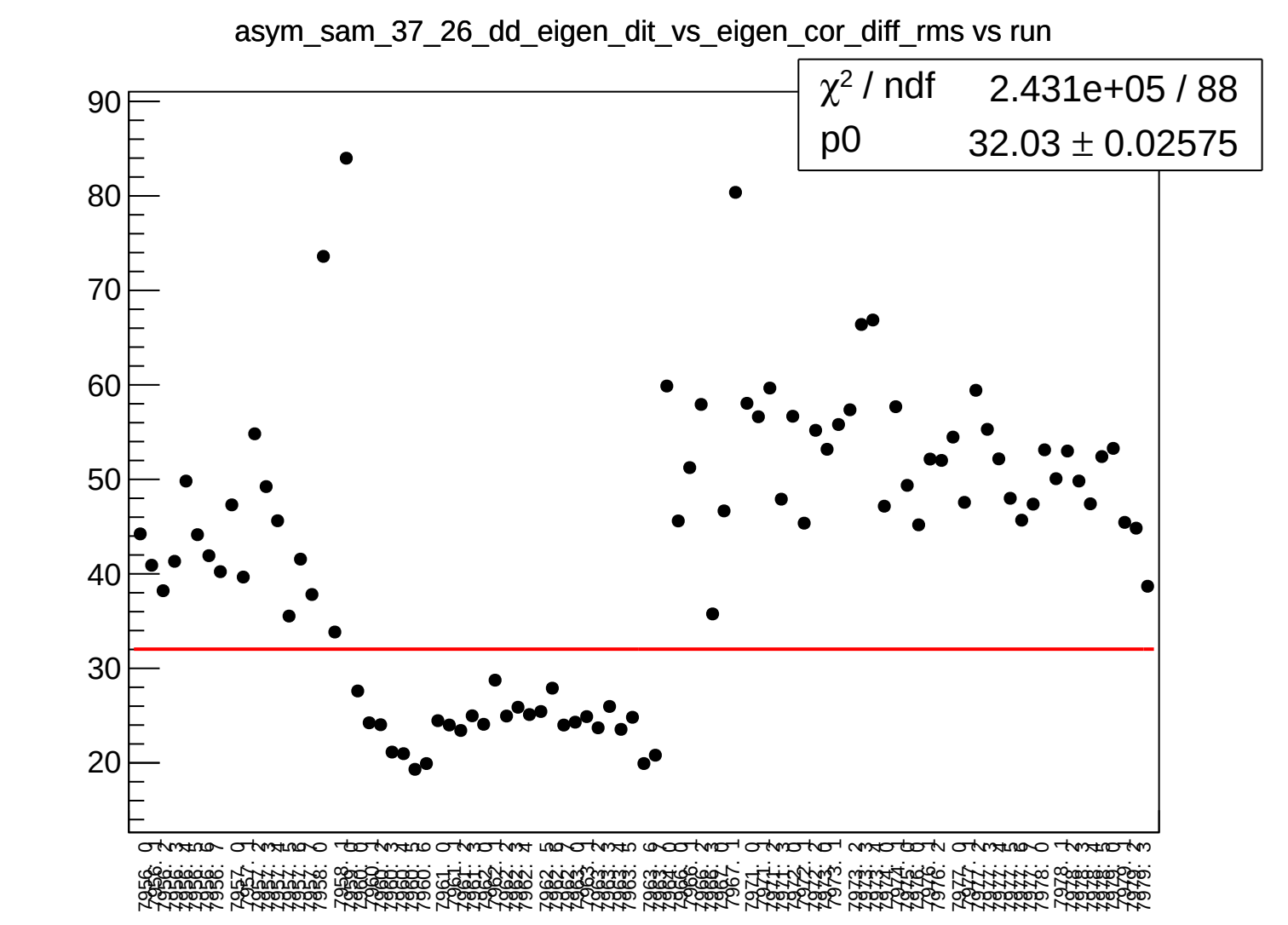

pull1D
Entries 89
Mean 0.04586
Std Dev 1.013

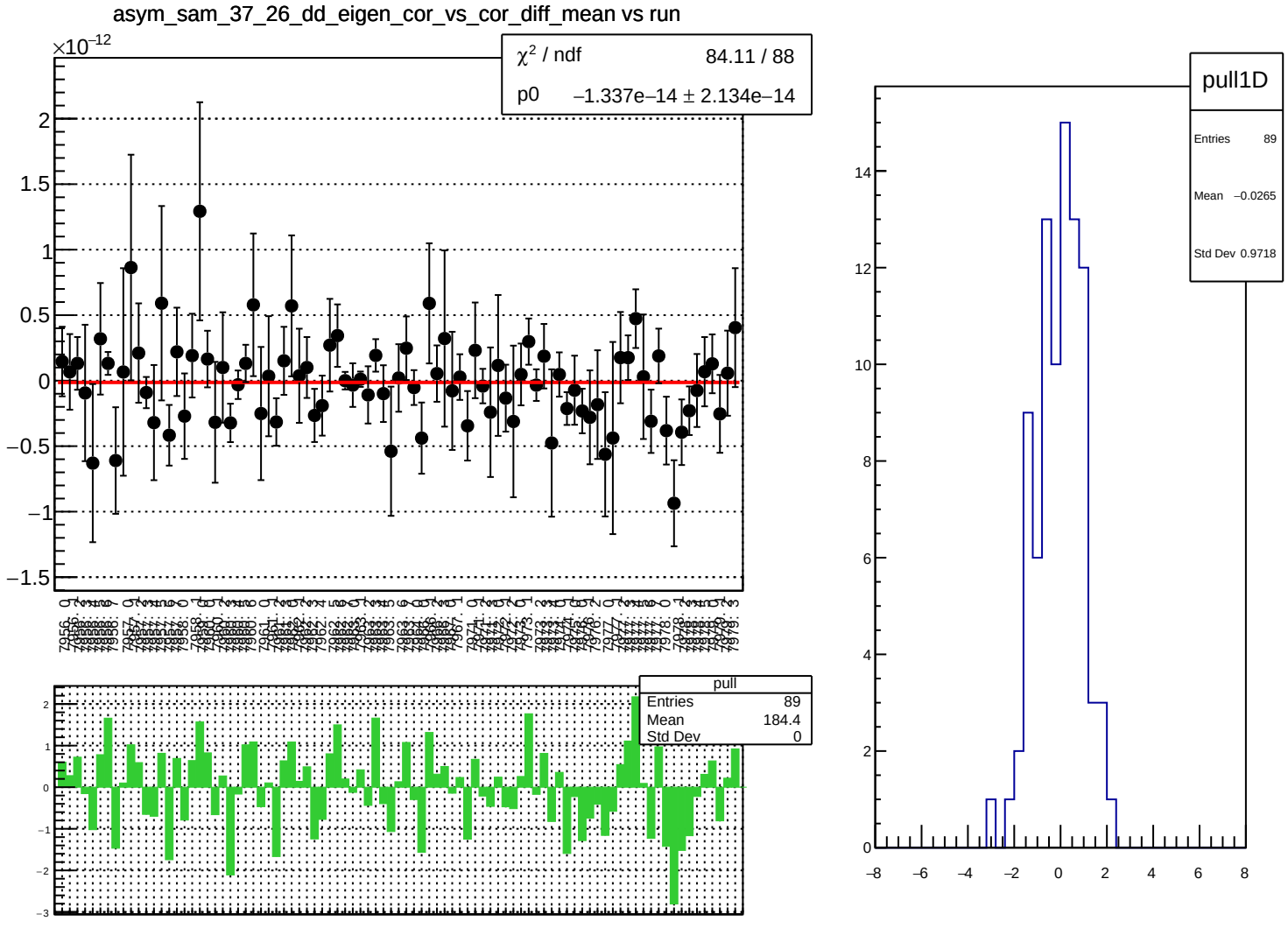

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.488e+05 / 88
p0 0.0009377 ± 8.775e−07
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

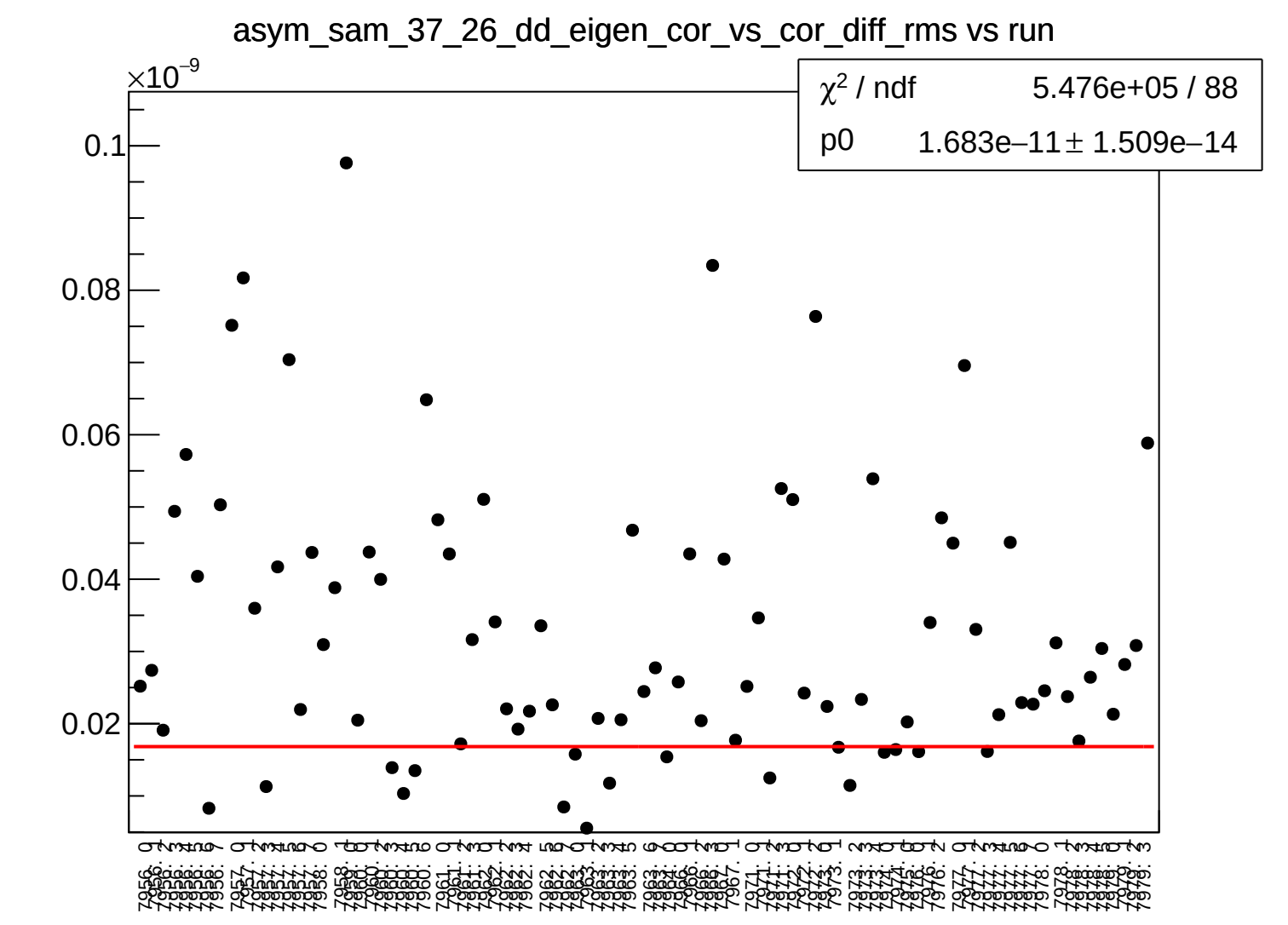

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 88
p0 −0.04985 ± 0.03641
pull
Entries 89
Mean 81.43
Std Dev 43.46
pull1D
Entries 89
Mean −0.007449
Std Dev 1.11

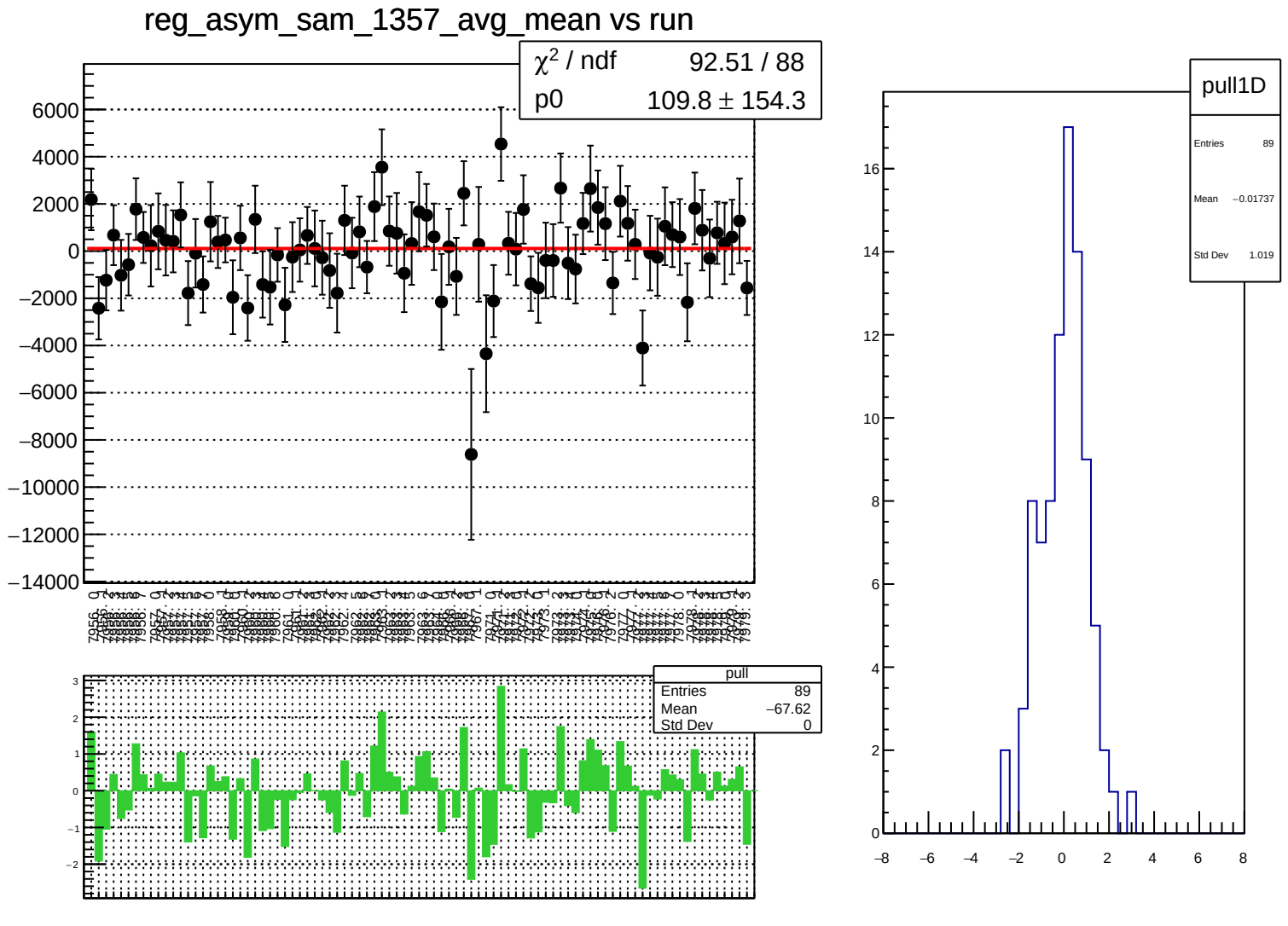

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.431e+05 / 88
p0 32.03 ± 0.02575
90
80
70
60
50
40
30
20

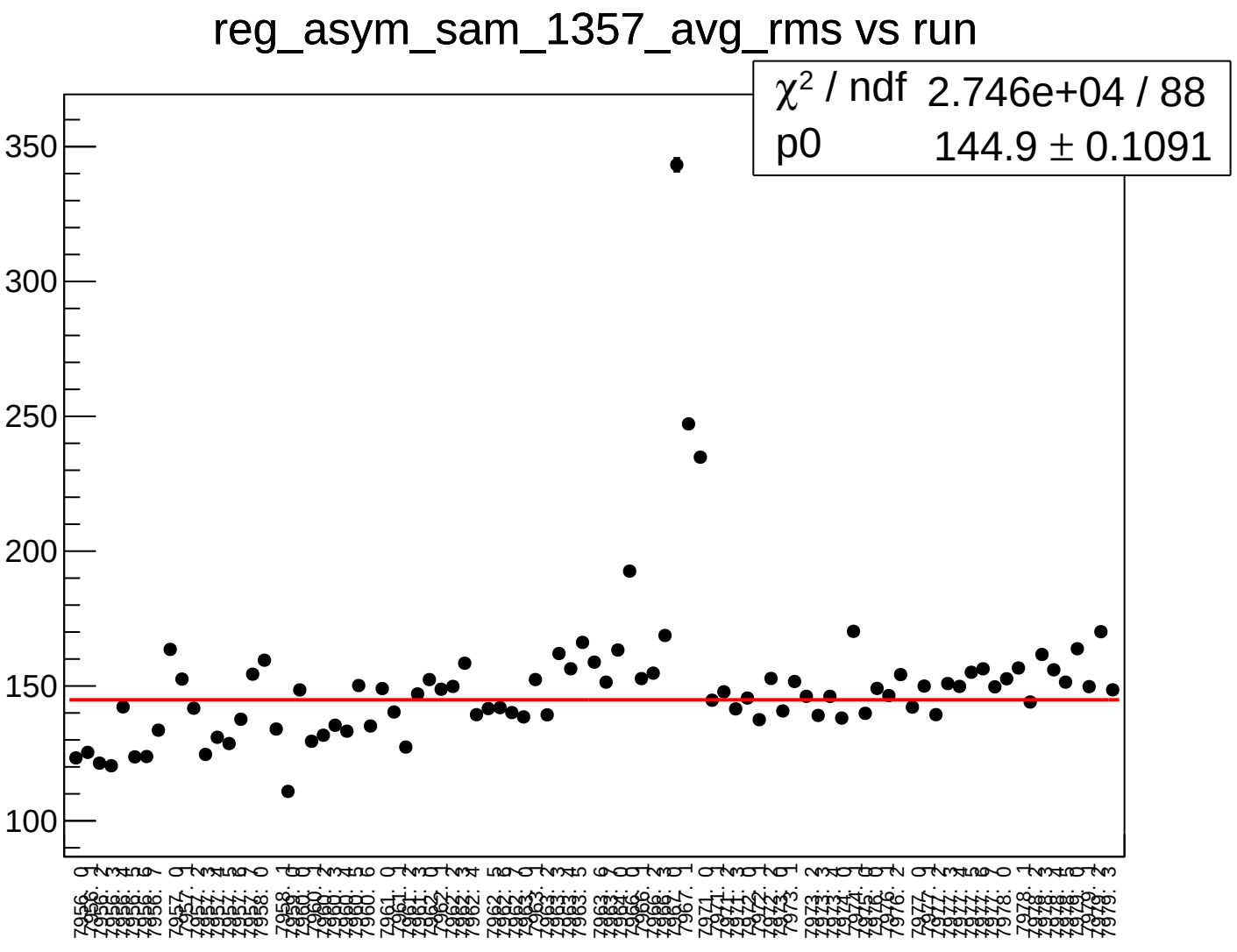

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 88
p0 −0.04985 ± 0.03641
pull
Entries 89
Mean 81.43
Std Dev 43.46
pull1D
Entries 89
Mean −0.007449
Std Dev 1.11

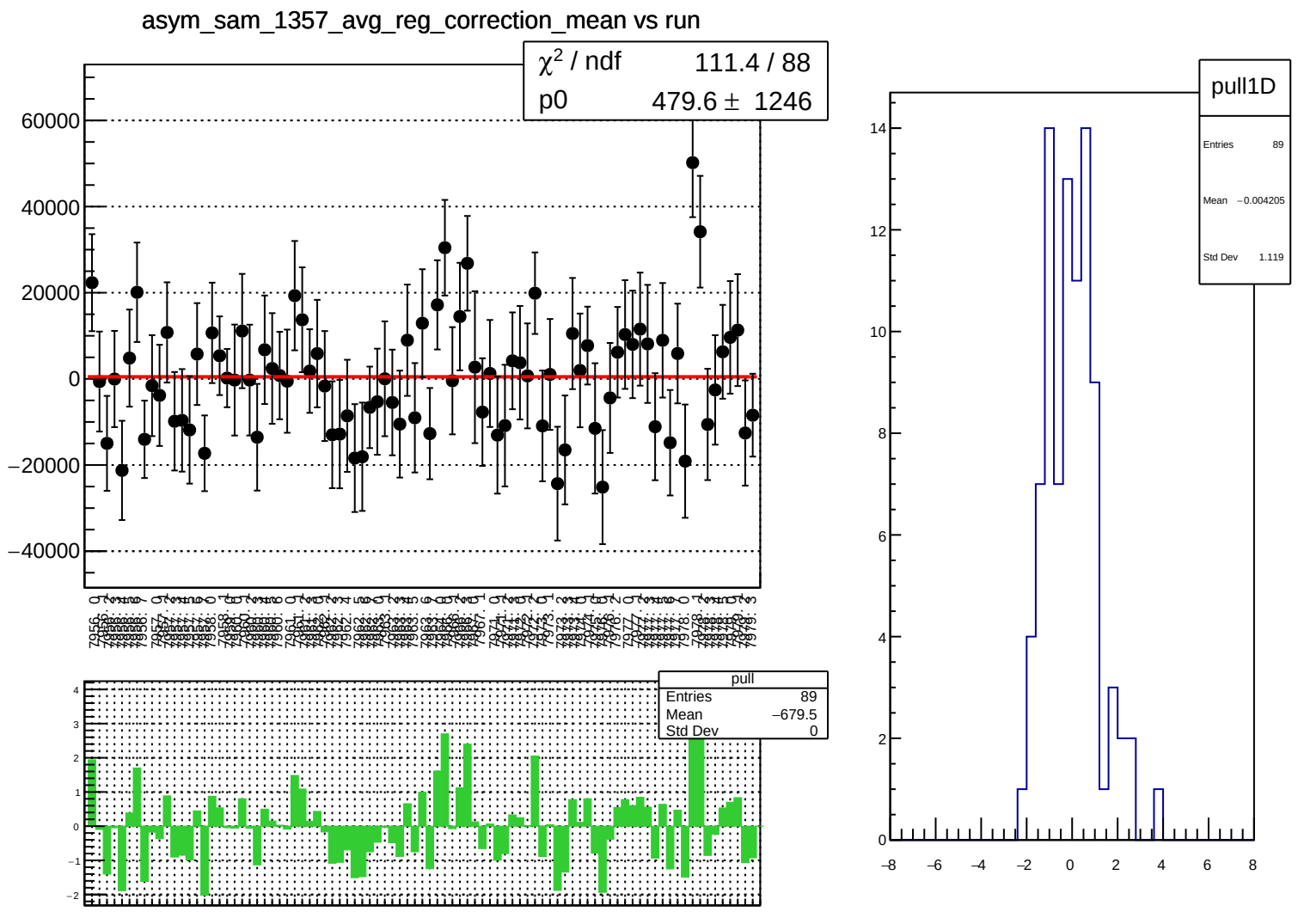

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.431e+05 / 88
p0 32.03 ± 0.02575
90
80
70
60
50
40
30
20

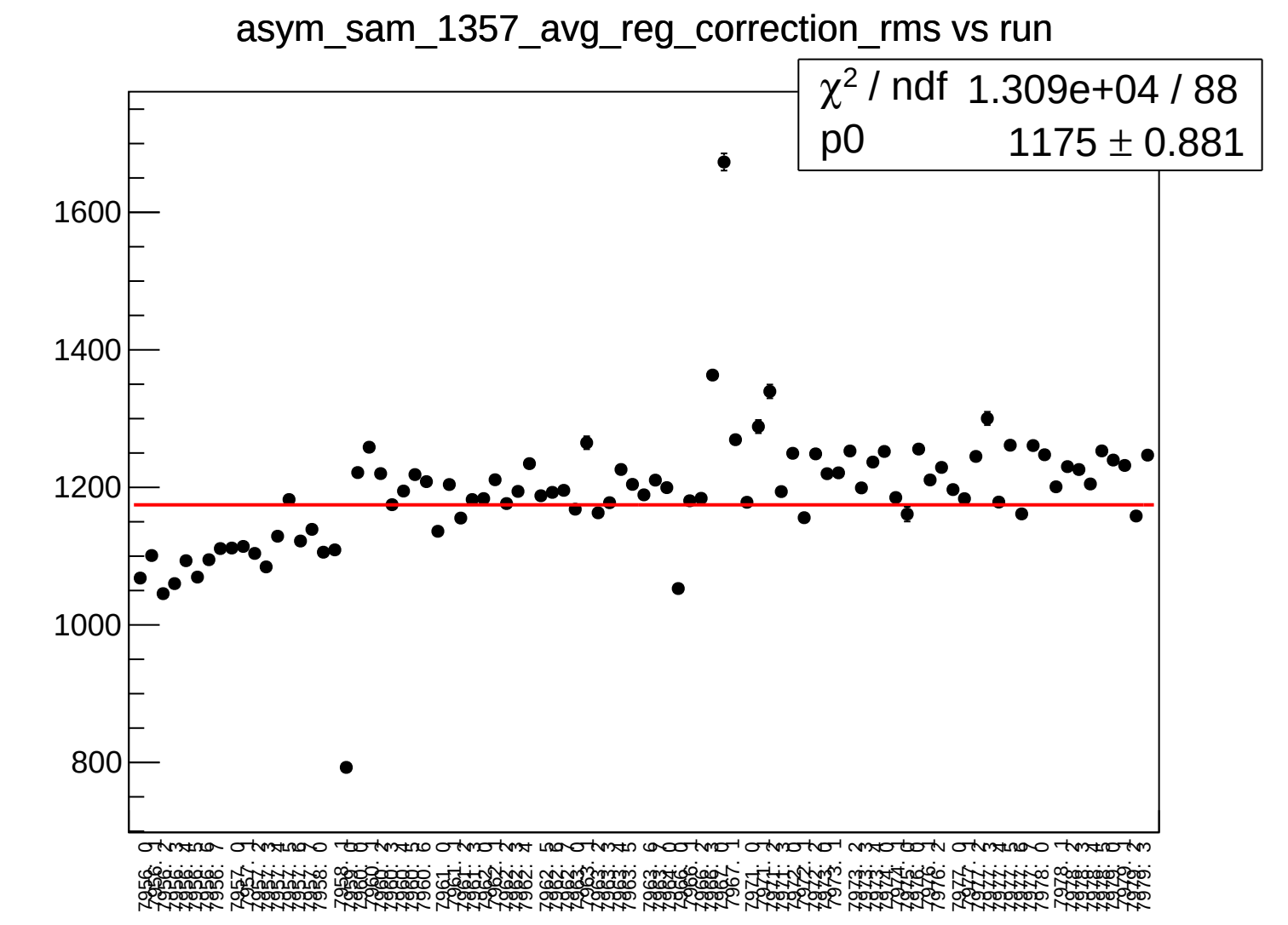

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.11 / 88
p0 −1.337e−14 ± 2.134e−14
pull
Entries 89
Mean 184.4
Std Dev 0
pull1D
Entries 89
Mean −0.0265
Std Dev 0.9718

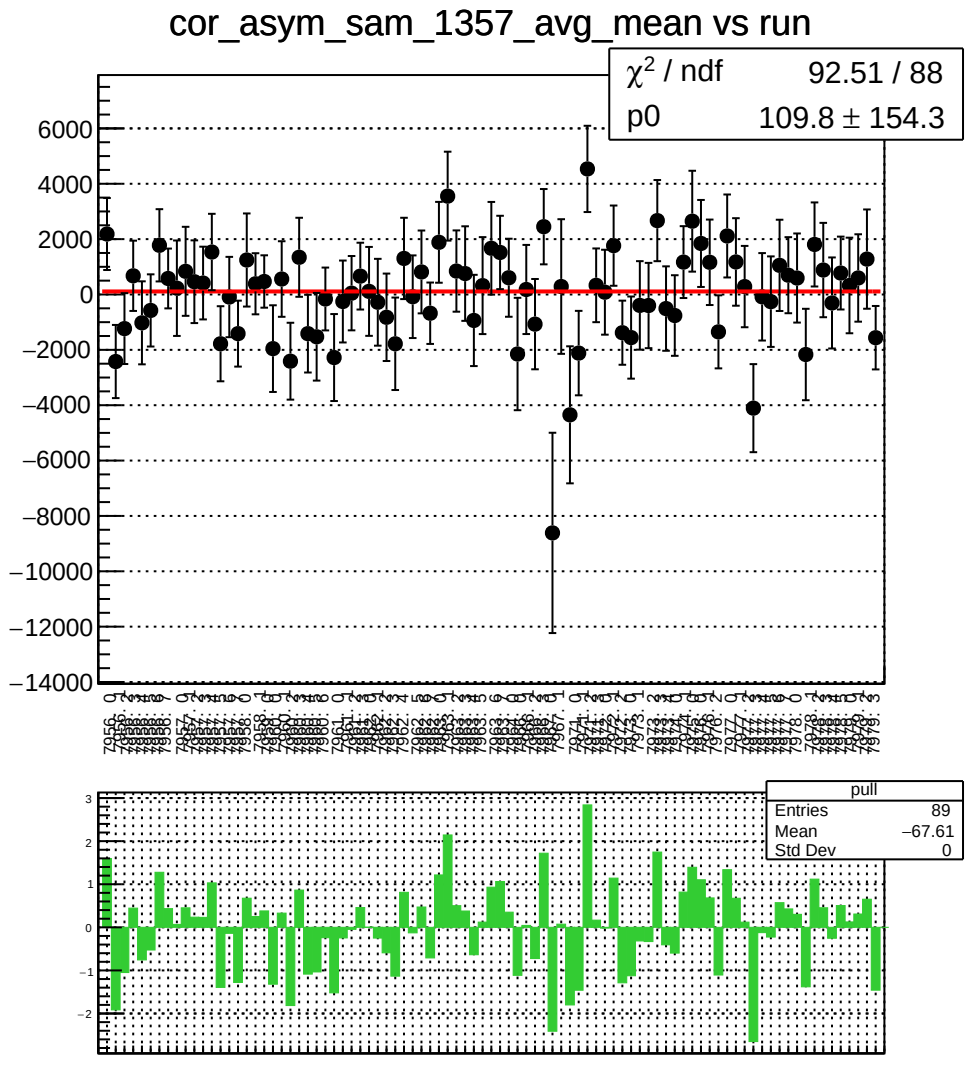

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.476e+05 / 88
p0 1.683e−11 ± 1.509e−14
0.1
0.08
0.06
0.04
0.02

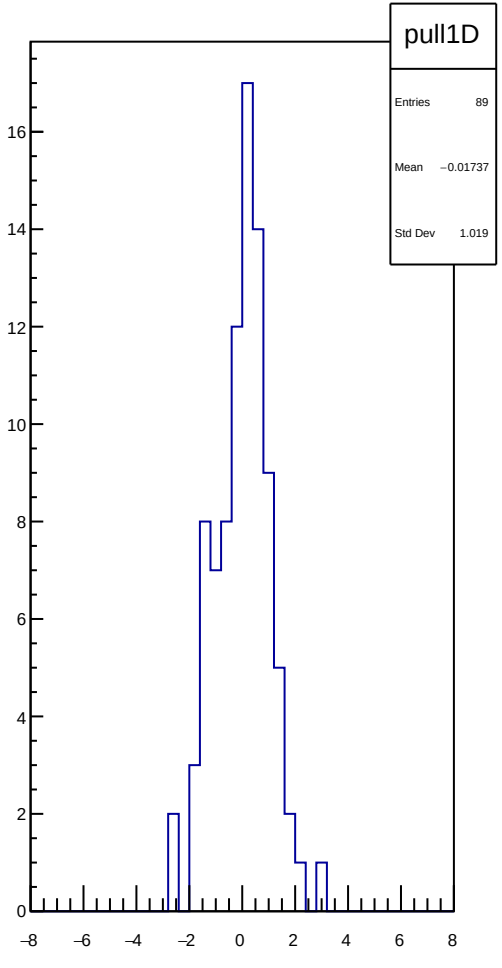

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 92.51 / 88
p0 109.8 ± 154.3
pull
Entries 89
Mean −67.62
Std Dev 0
pull1D
Entries 89
Mean −0.01737
Std Dev 1.019

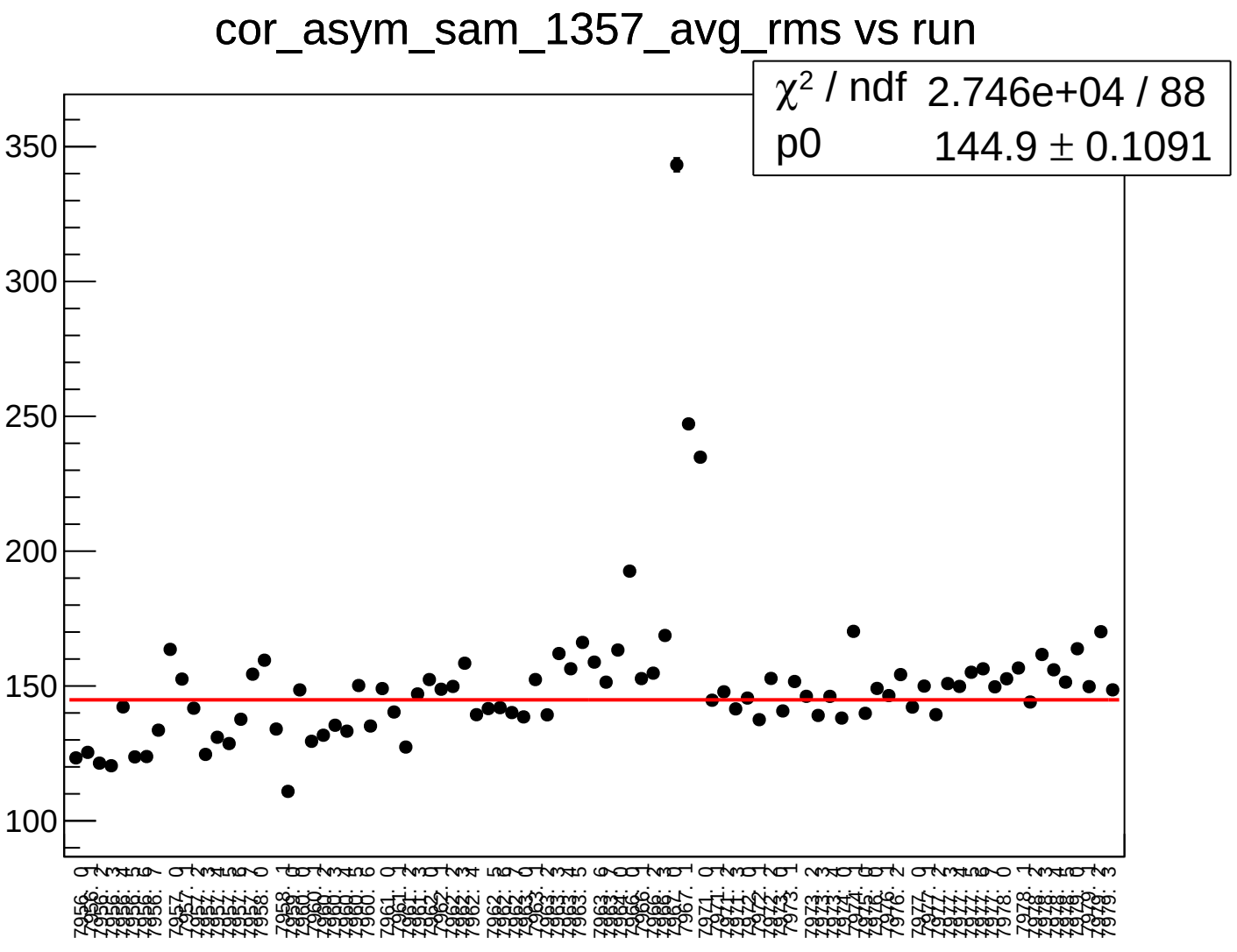

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2.746e+04 / 88
p0 144.9 ± 0.1091
350
300
250
200
150
100

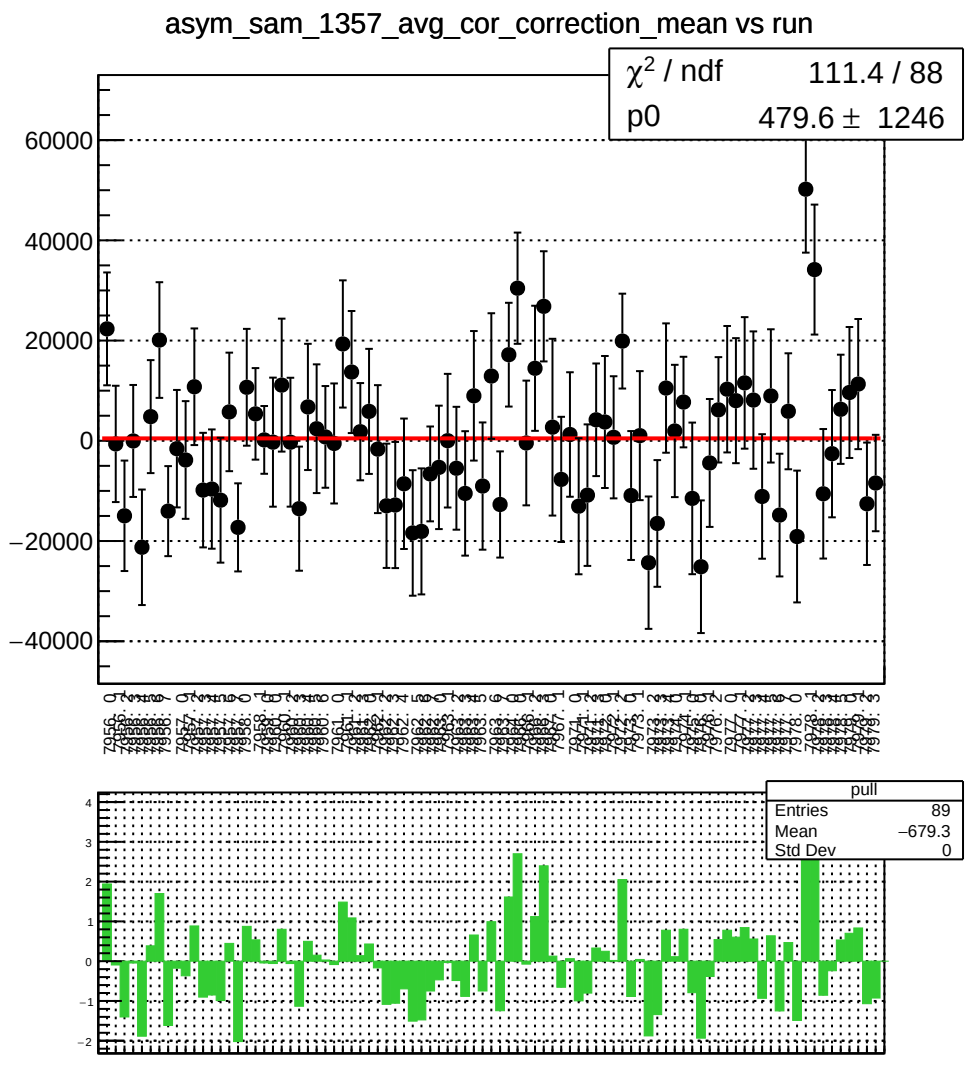

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 111.4 / 88
p0 479.6 ± 1246
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −679.5
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.004205
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

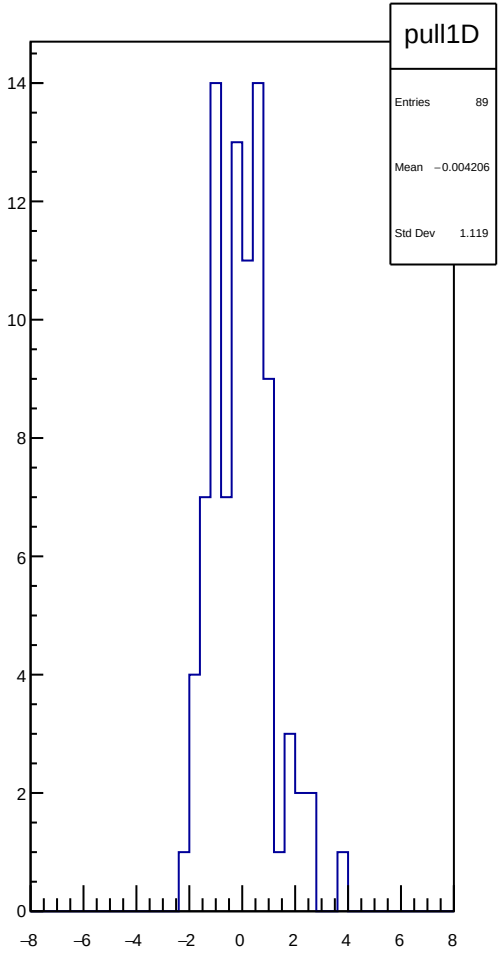

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.309e+04 / 88
p0 1175 ± 0.881
1600
1400
1200
1000
800

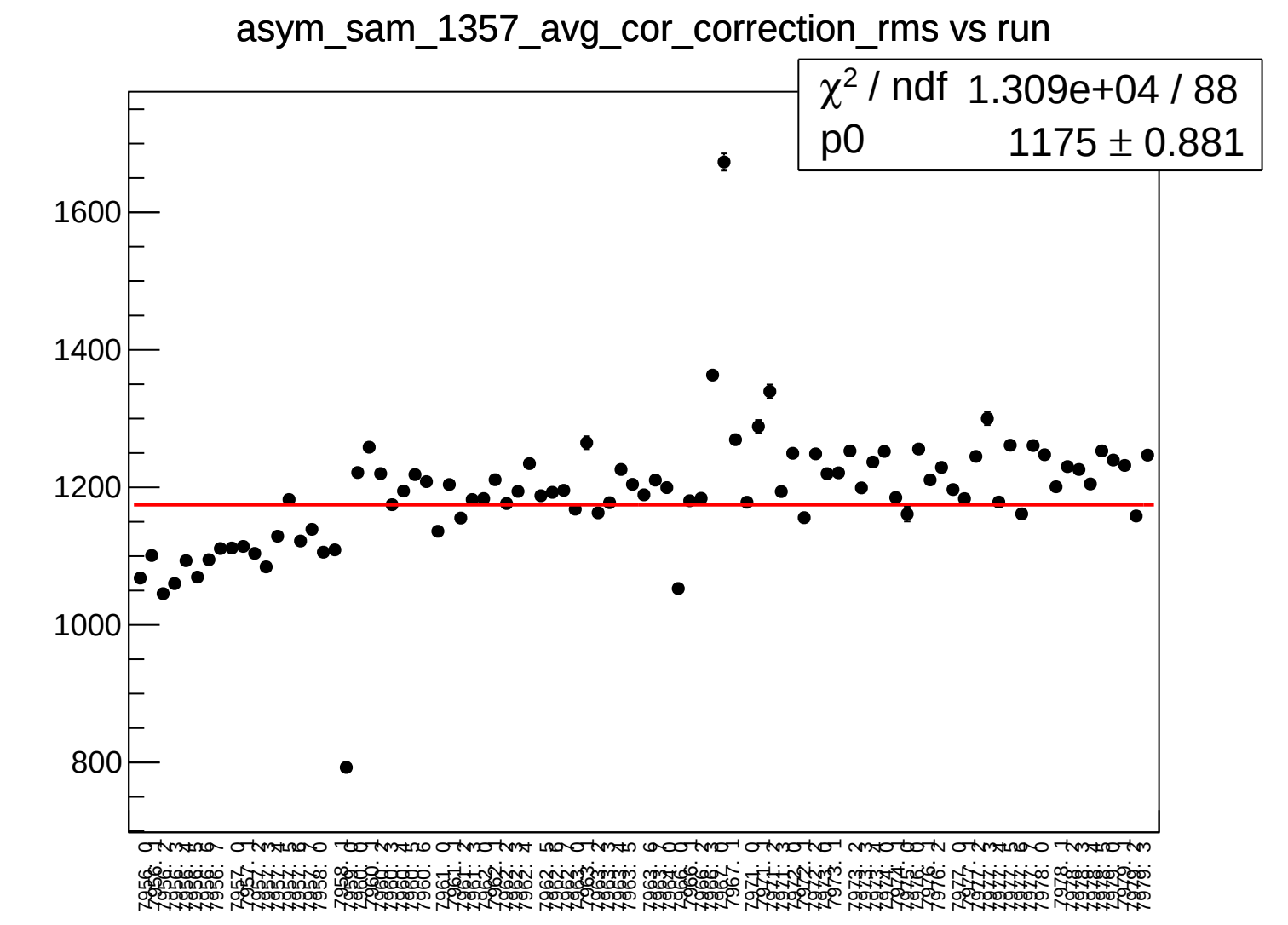

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 92.51 / 88
p0 109.8 ± 154.3
pull
Entries 89
Mean −67.61
Std Dev 0

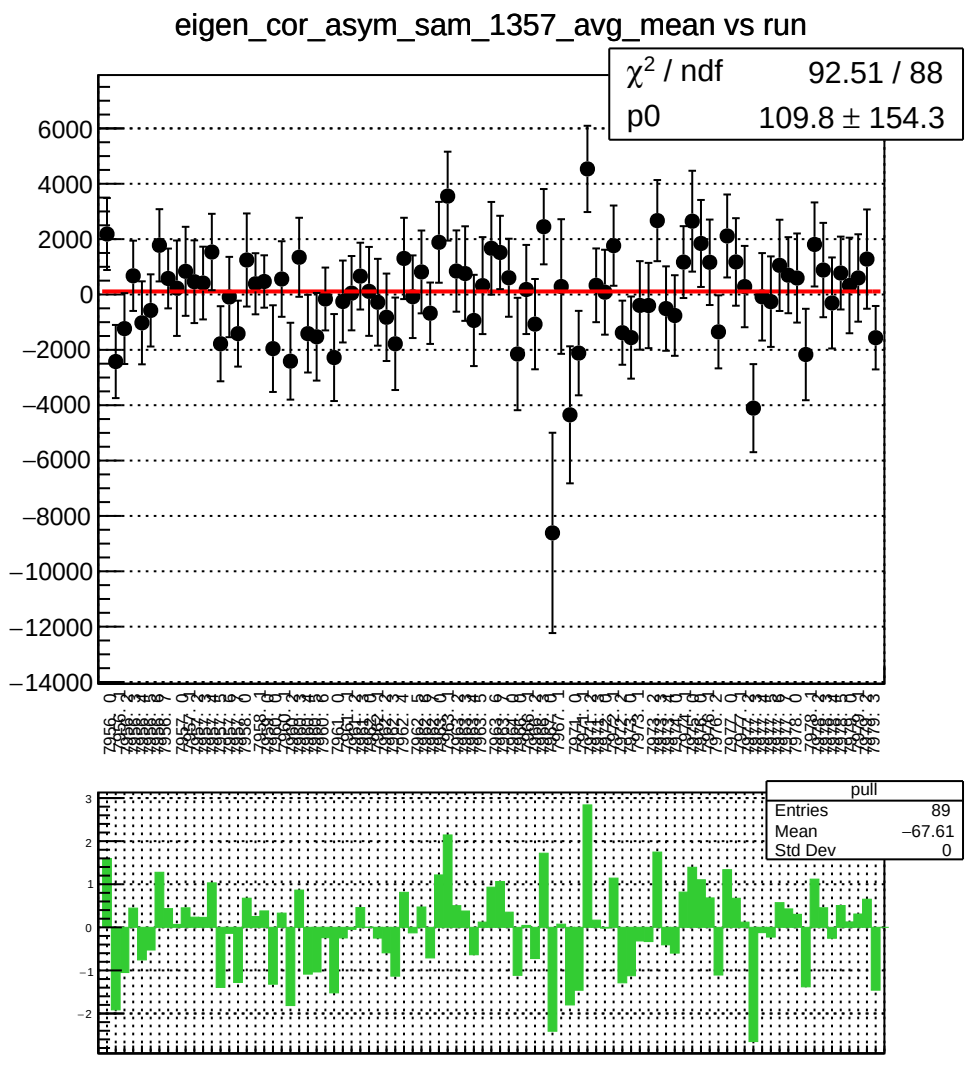

pull1D
Entries 89
Mean −0.01737
Std Dev 1.019

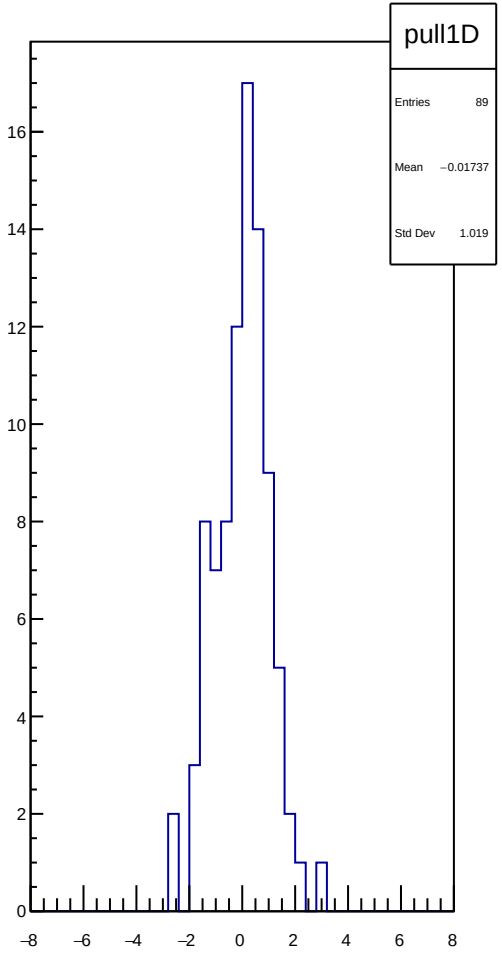

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.746e+04 / 88
p0 144.9 ± 0.1091
350
300
250
200
150
100

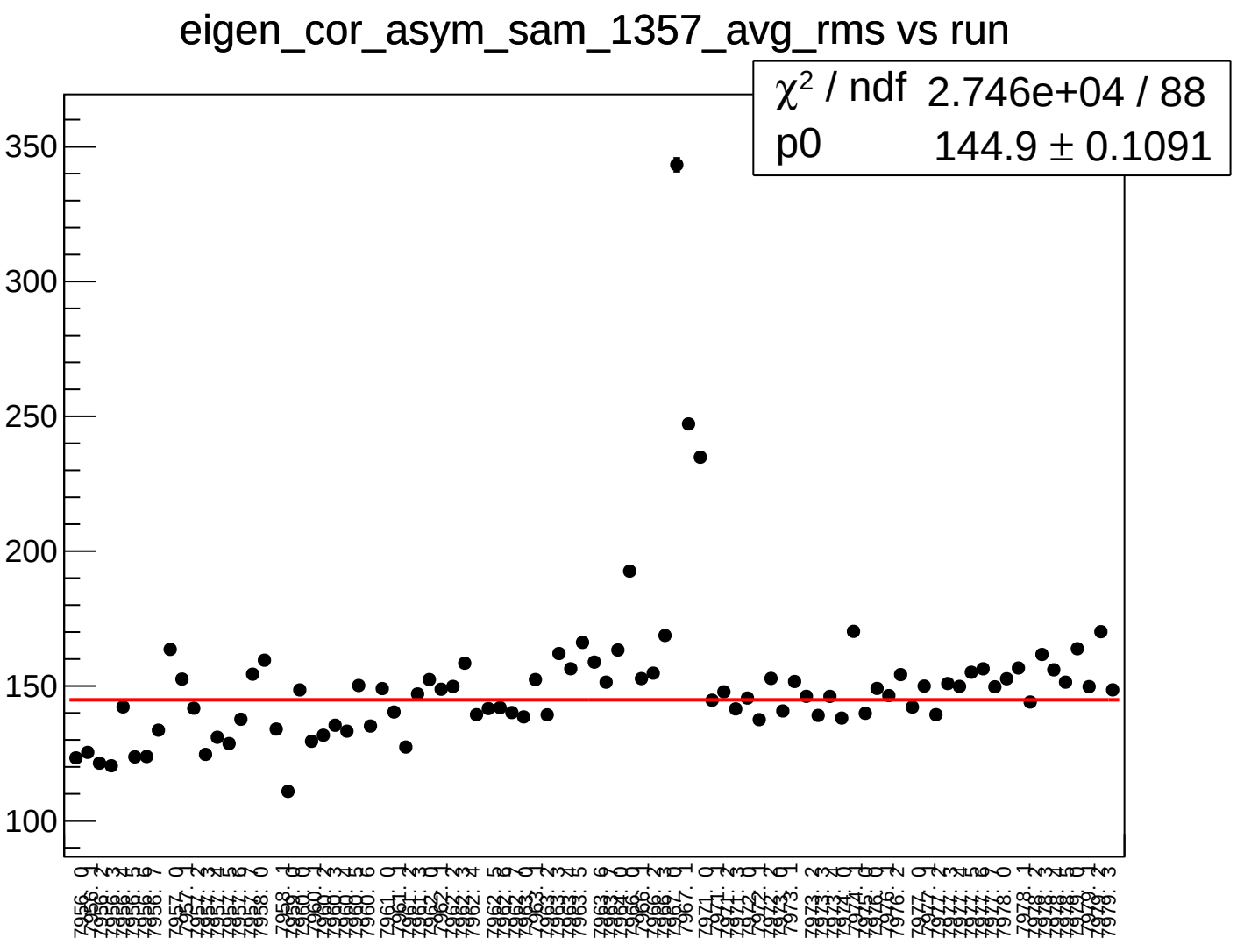

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 111.4 / 88
p0 479.6 ± 1246
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −679.3
Std Dev 0
4
3
2
1
0
−1
−2

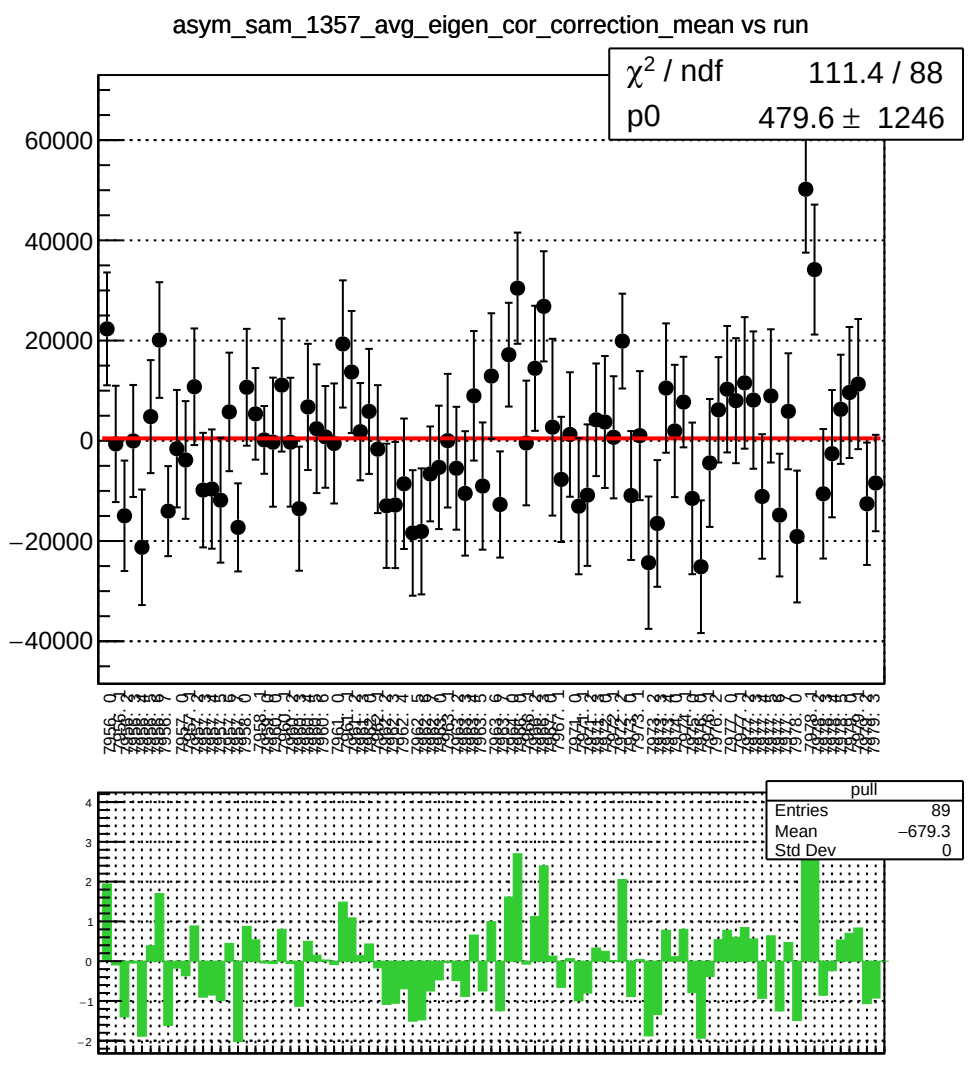

pull1D
Entries 89
Mean −0.004206
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

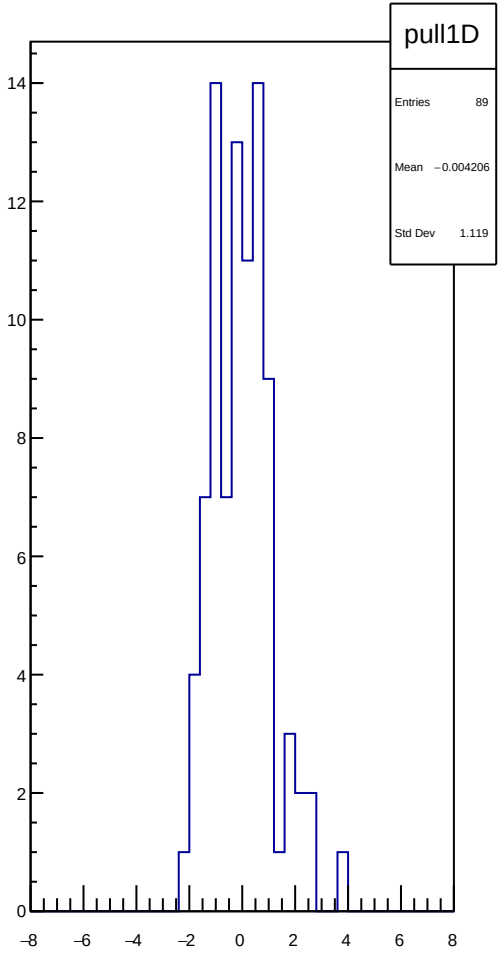

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.309e+04 / 88
p0 1175 ± 0.881
1600
1400
1200
1000
800

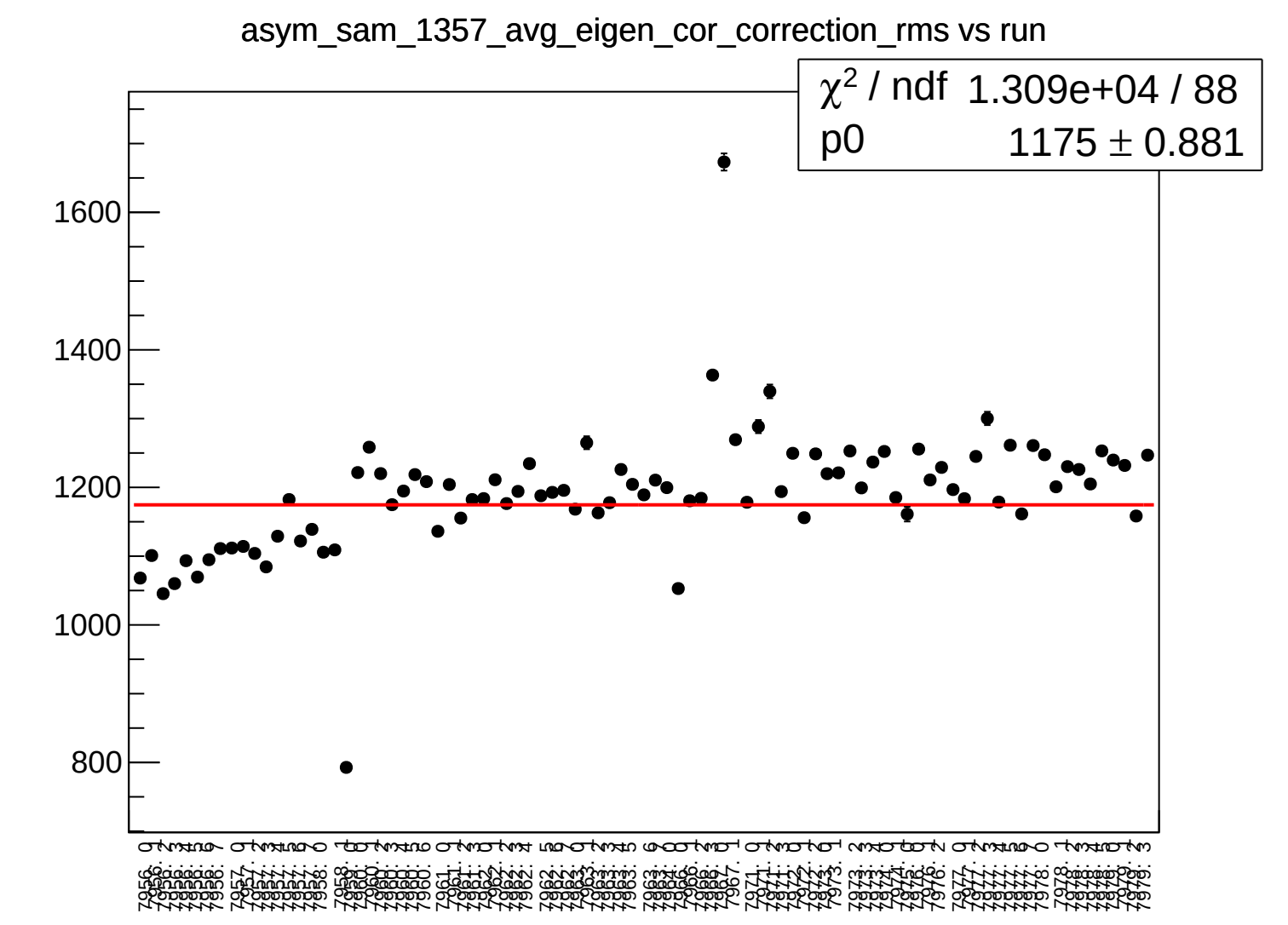

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 92.51 / 88
p0 109.8 ± 154.3
pull
Entries 89
Mean −67.61
Std Dev 0

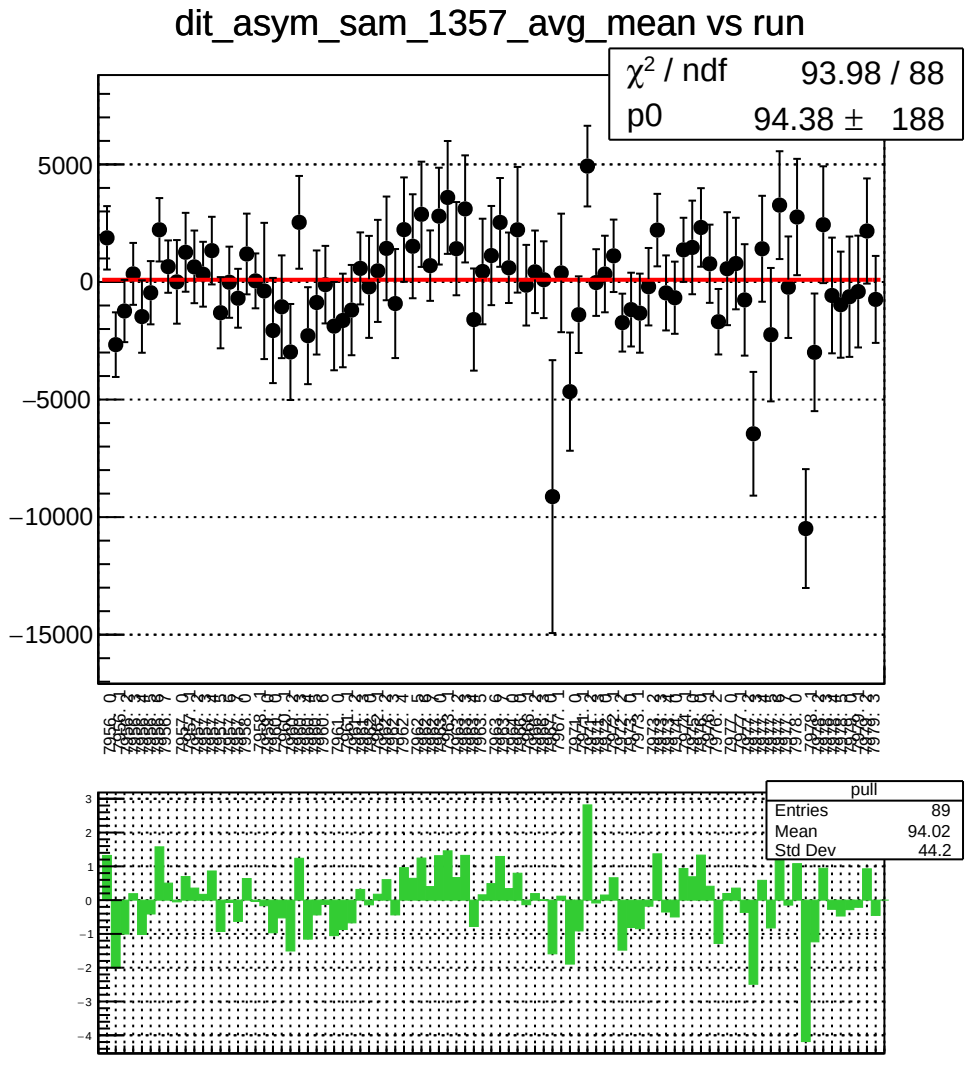

pull1D
Entries 89
Mean −0.01737
Std Dev 1.019

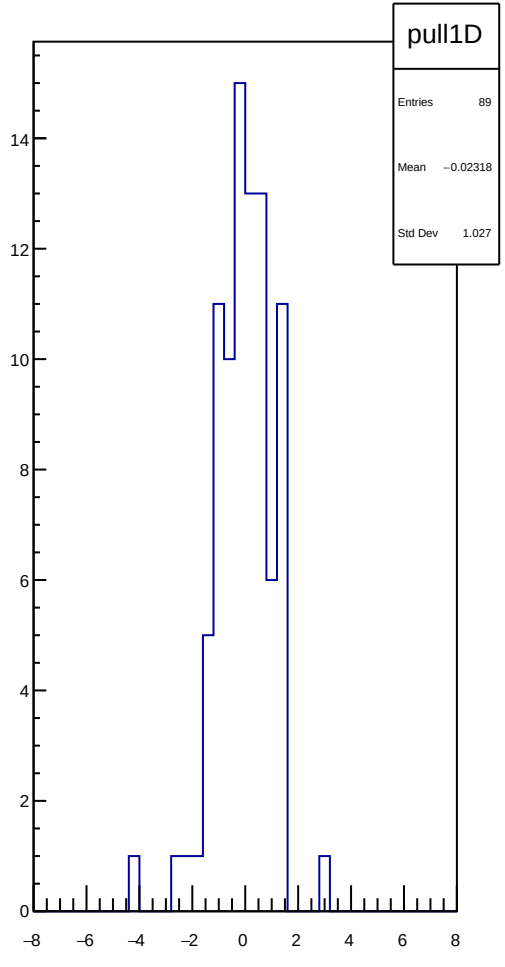

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.746e+04 / 88
p0 144.9 ± 0.1091
350
300
250
200
150
100

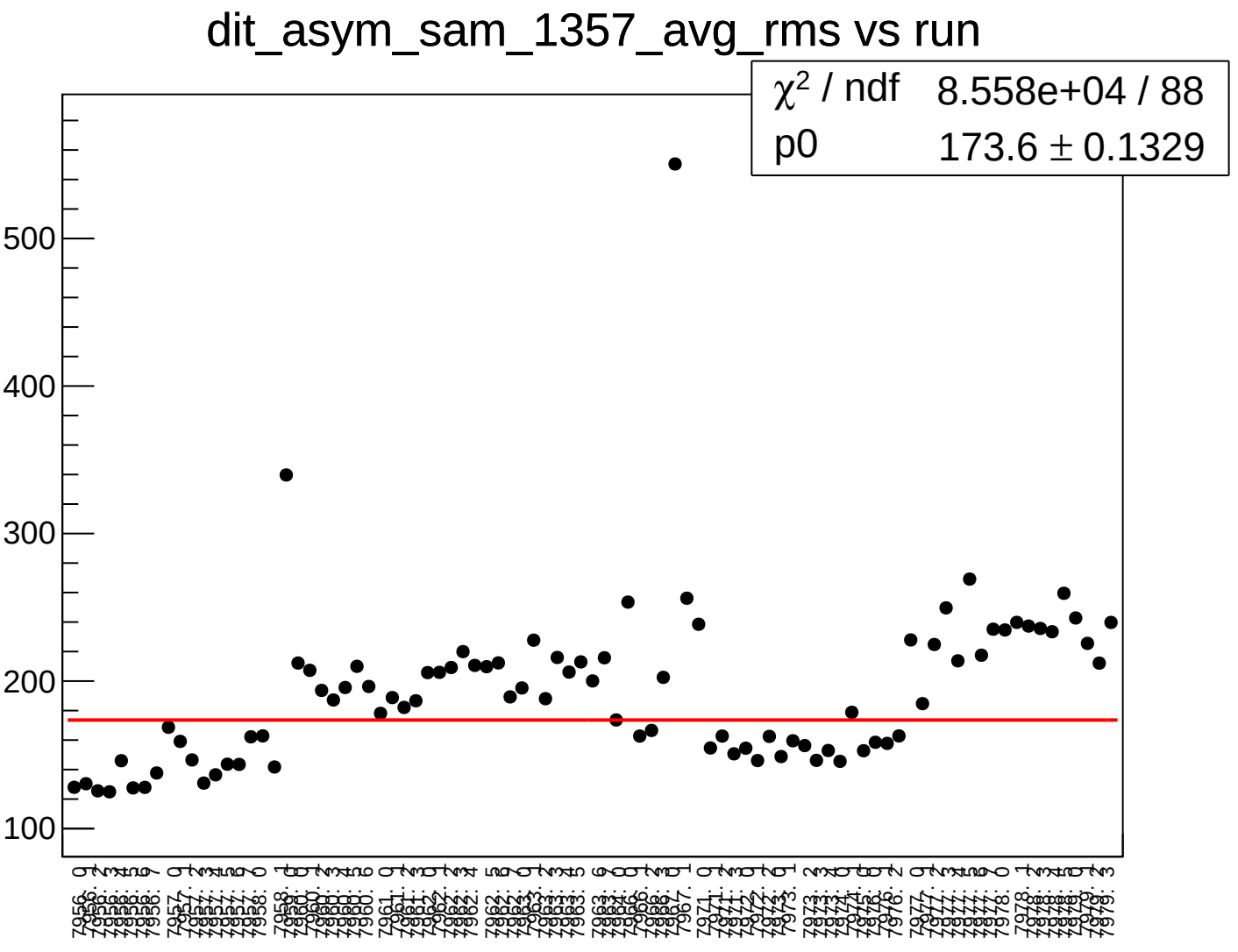

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 111.4 / 88
p0 479.6 ± 1246
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −679.3
Std Dev 0
4
3
2
1
0
−1
−2

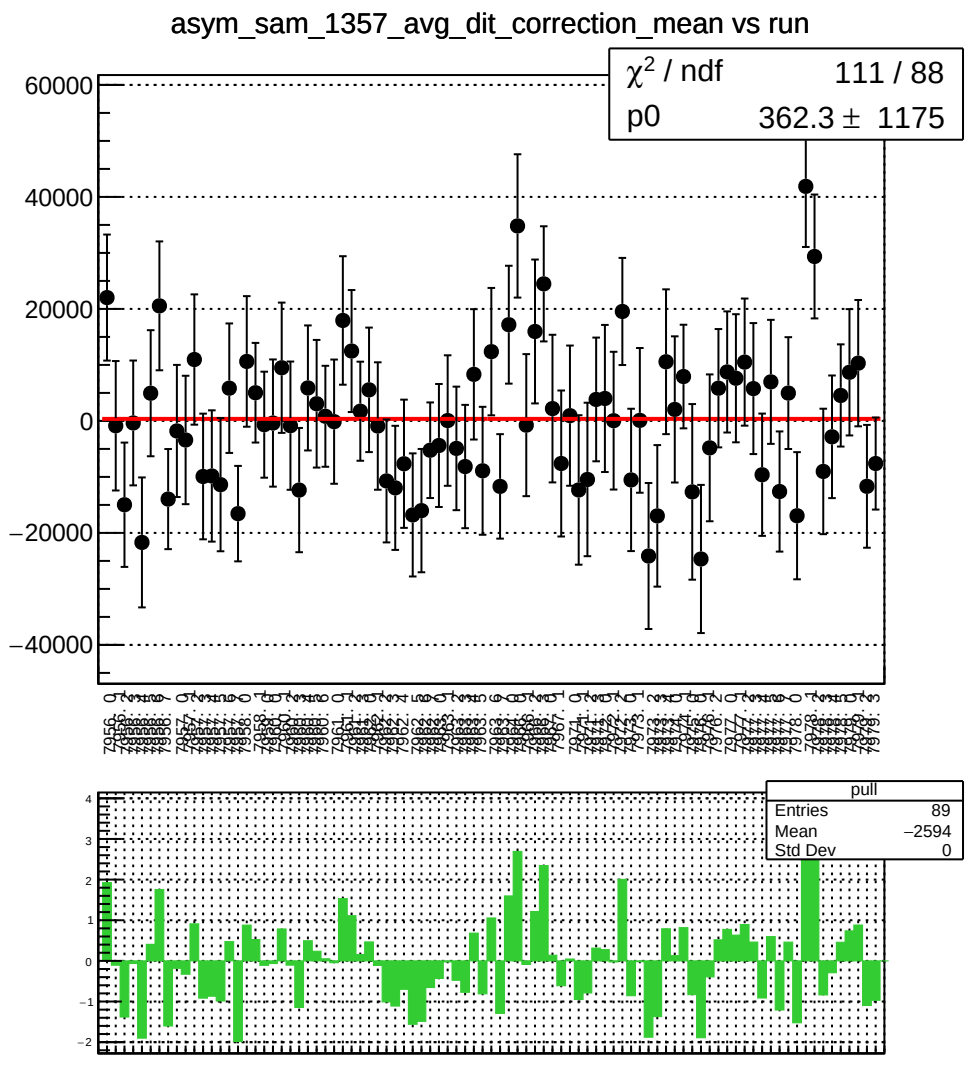

pull1D
Entries 89
Mean −0.004206
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

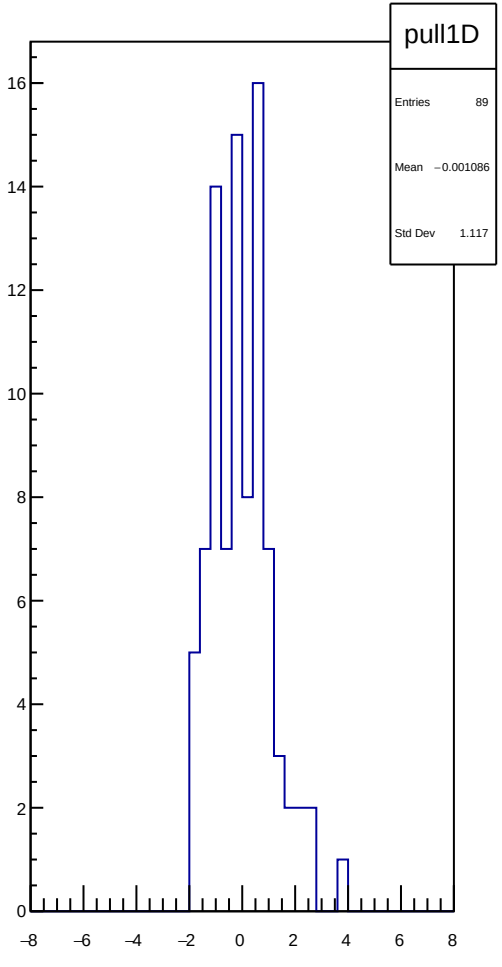

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.309e+04 / 88
p0 1175 ± 0.881
1600
1400
1200
1000
800

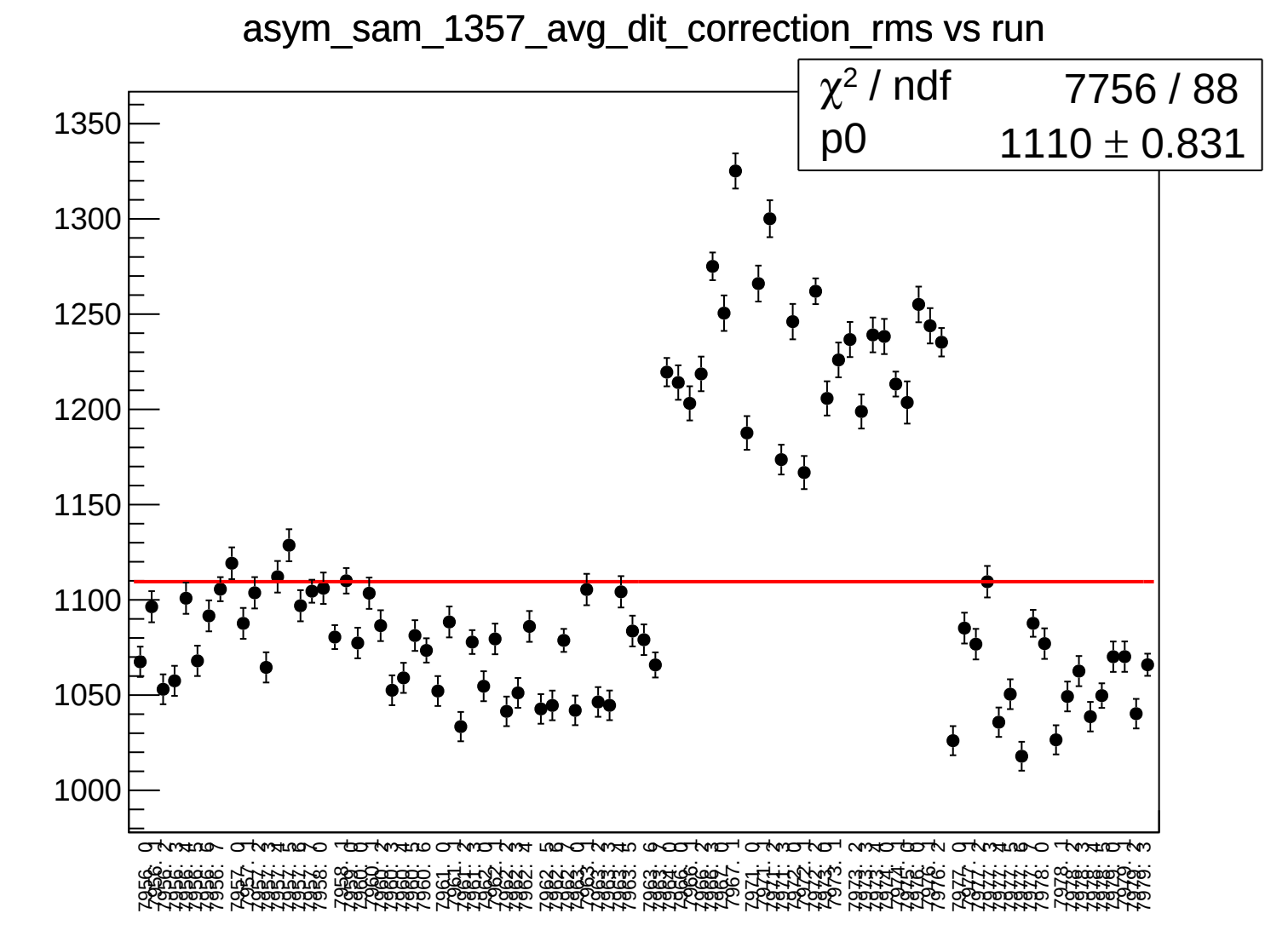

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 93.98 / 88
p0 94.38 ± 188
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 94.02
Std Dev 44.2
3
2
1
0
−1
−2
−3
−4

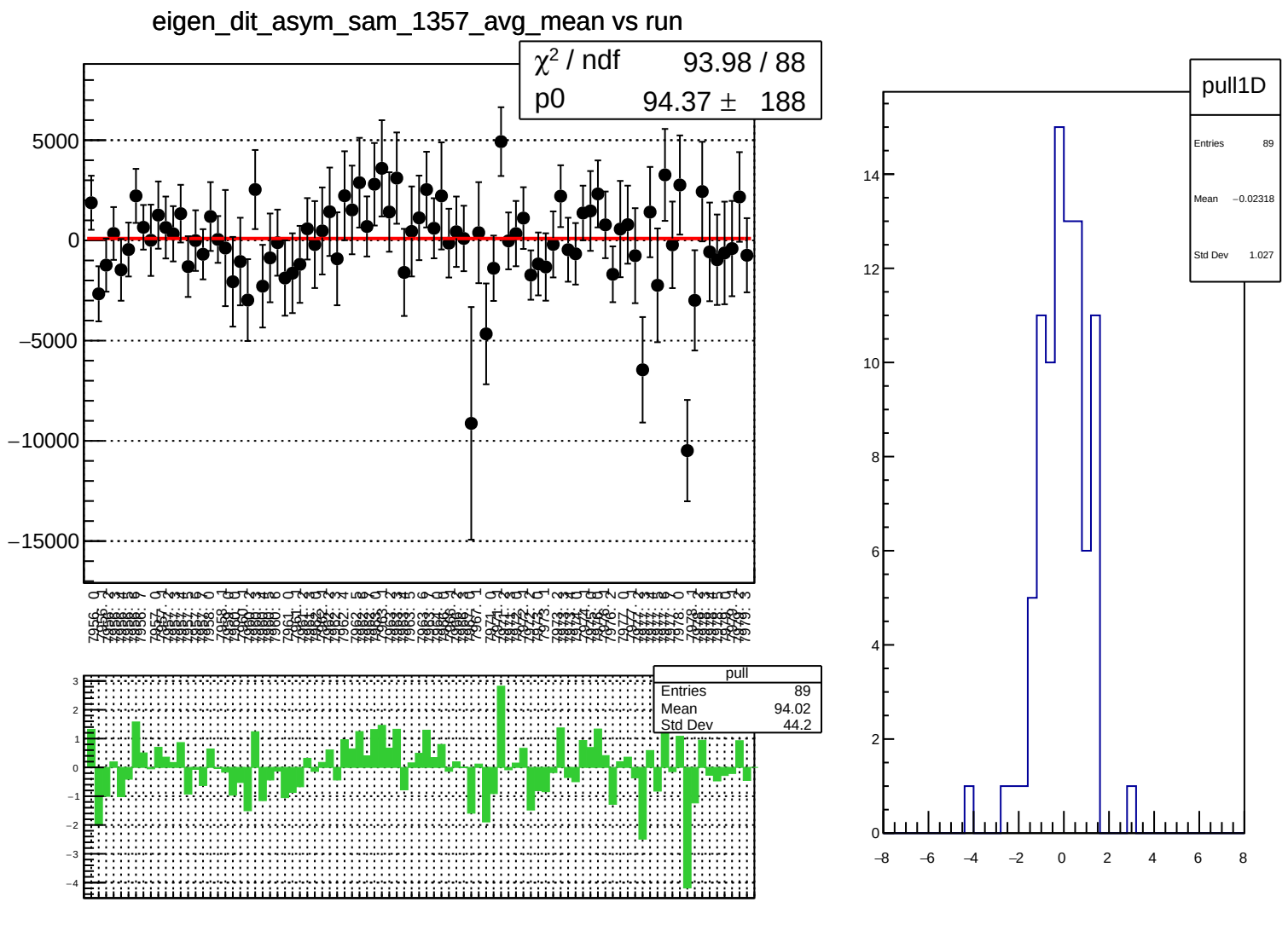

pull1D
Entries 89
Mean −0.02318
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

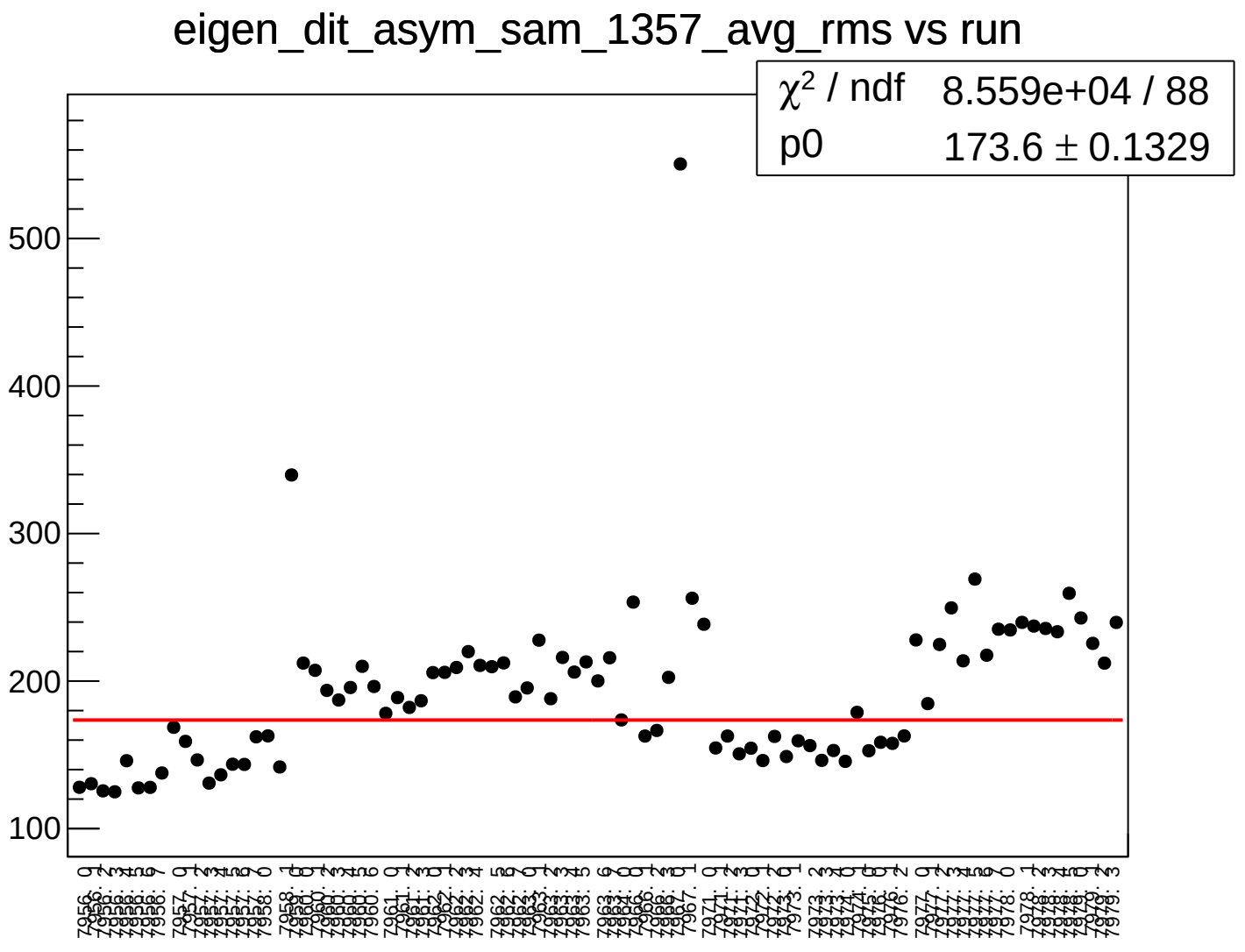

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 8.558e+04 / 88
p0 173.6 ± 0.1329
500
400
300
200
100

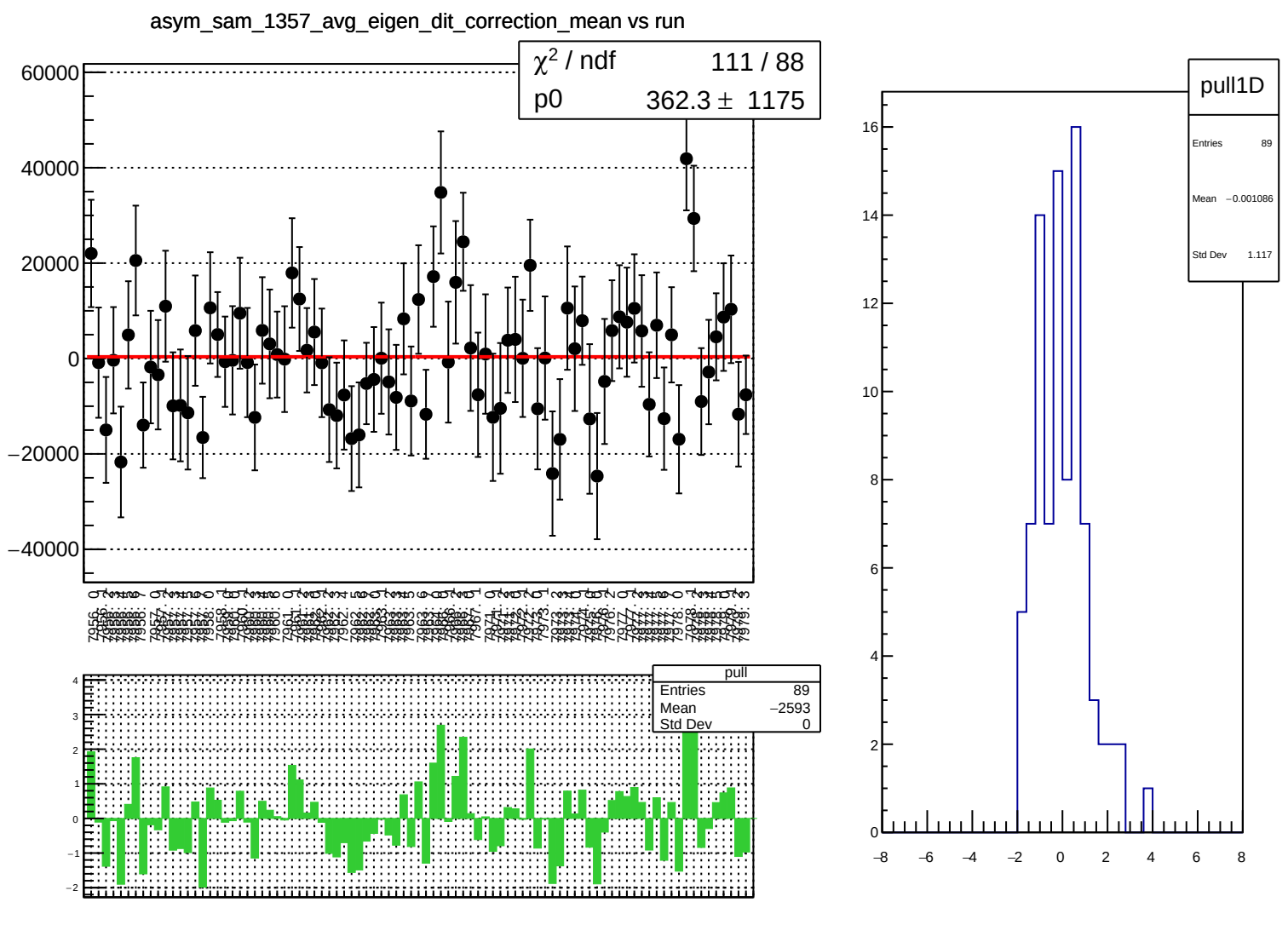

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 111 / 88
p0 362.3 ± 1175
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −2594
Std Dev 0
4
3
2
1
0
−1
−2

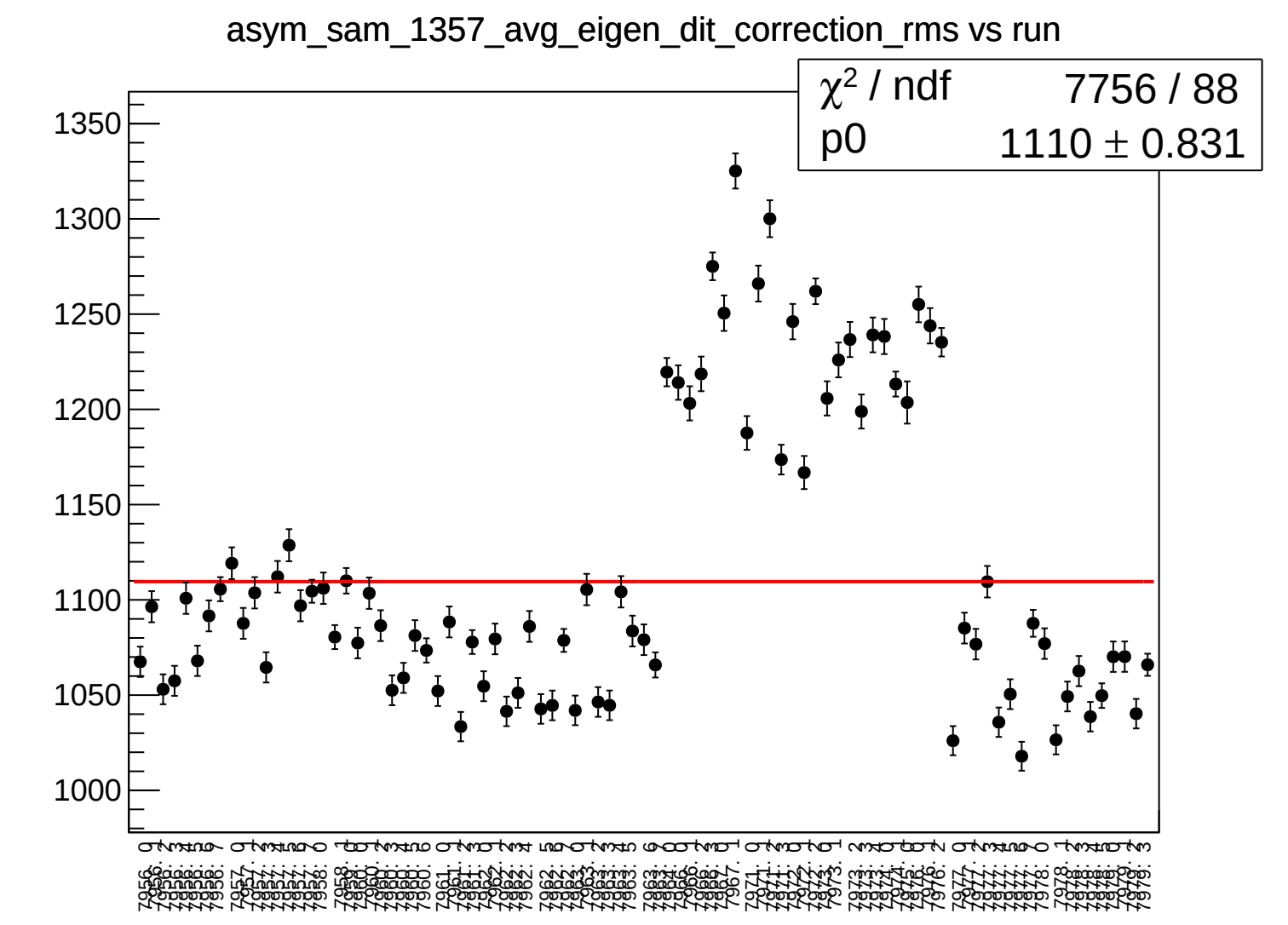

pull1D
Entries 89
Mean −0.001086
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

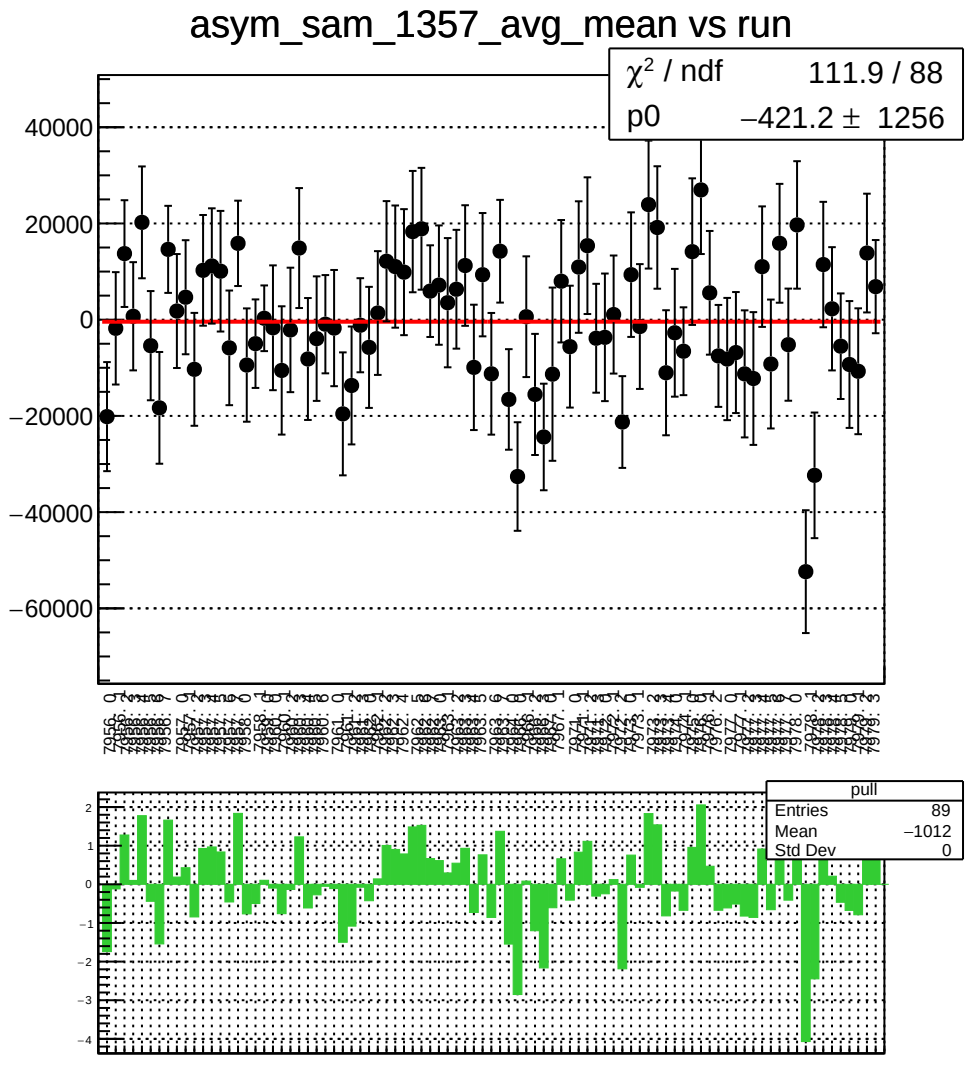

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 7756 / 88
p0 1110 ± 0.831
1350
1300
1250
1200
1150
1100
1050
1000

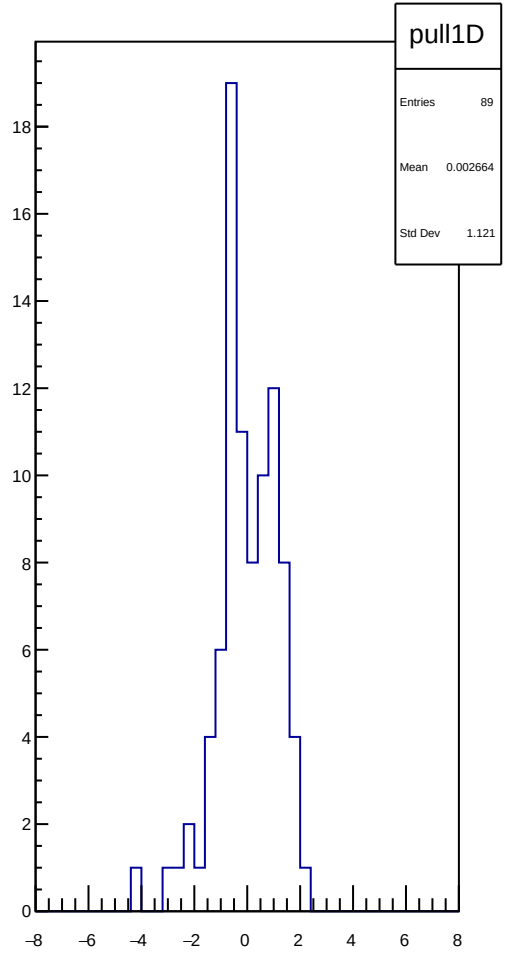

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 93.98 / 88
p0 94.37 ± 188
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 94.02
Std Dev 44.2
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean −0.02318
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

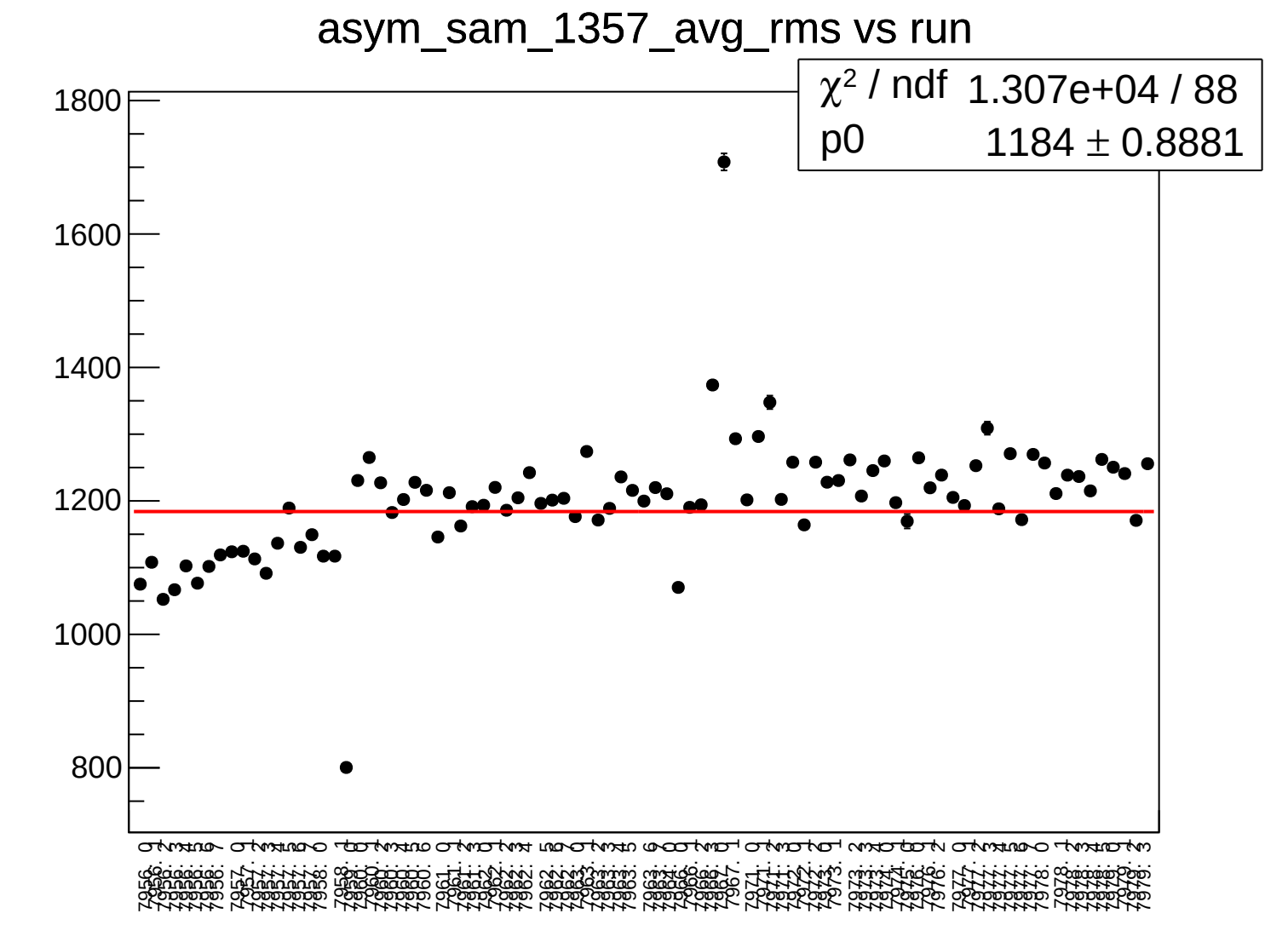

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 8.559e+04 / 88
p0 173.6 ± 0.1329
500
400
300
200
100

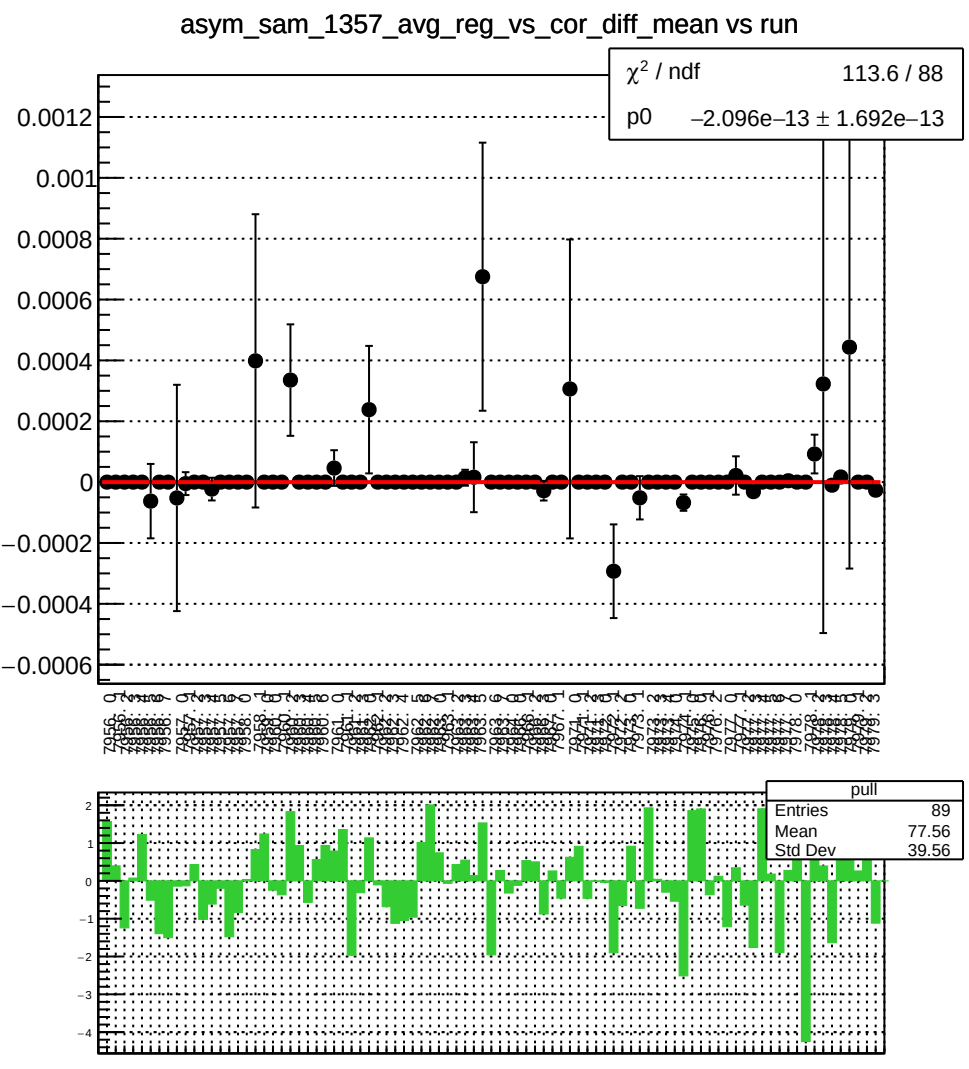

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 111 / 88
p0 362.3 ± 1175
pull
Entries 89
Mean −2593
Std Dev 0
pull1D
Entries 89
Mean −0.001086
Std Dev 1.117

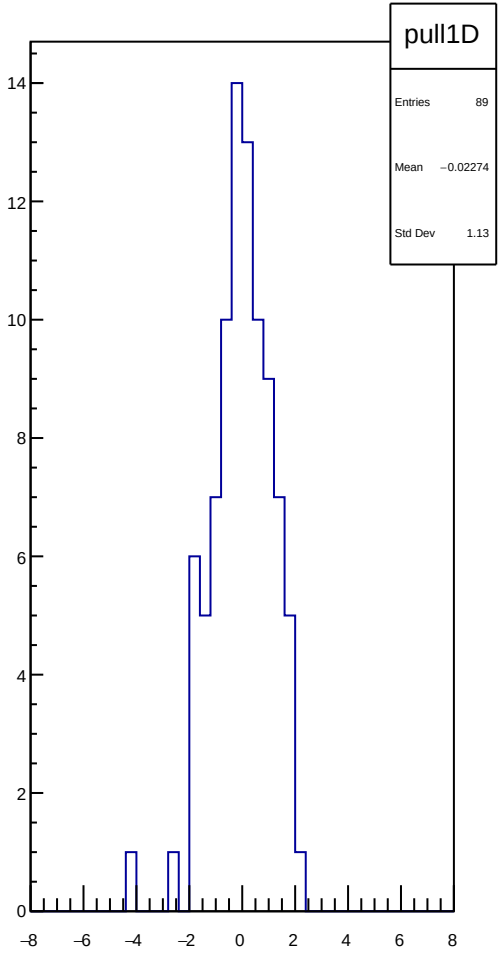

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 7756 / 88
p0 1110 ± 0.831
1350
1300
1250
1200
1150
1100
1050
1000

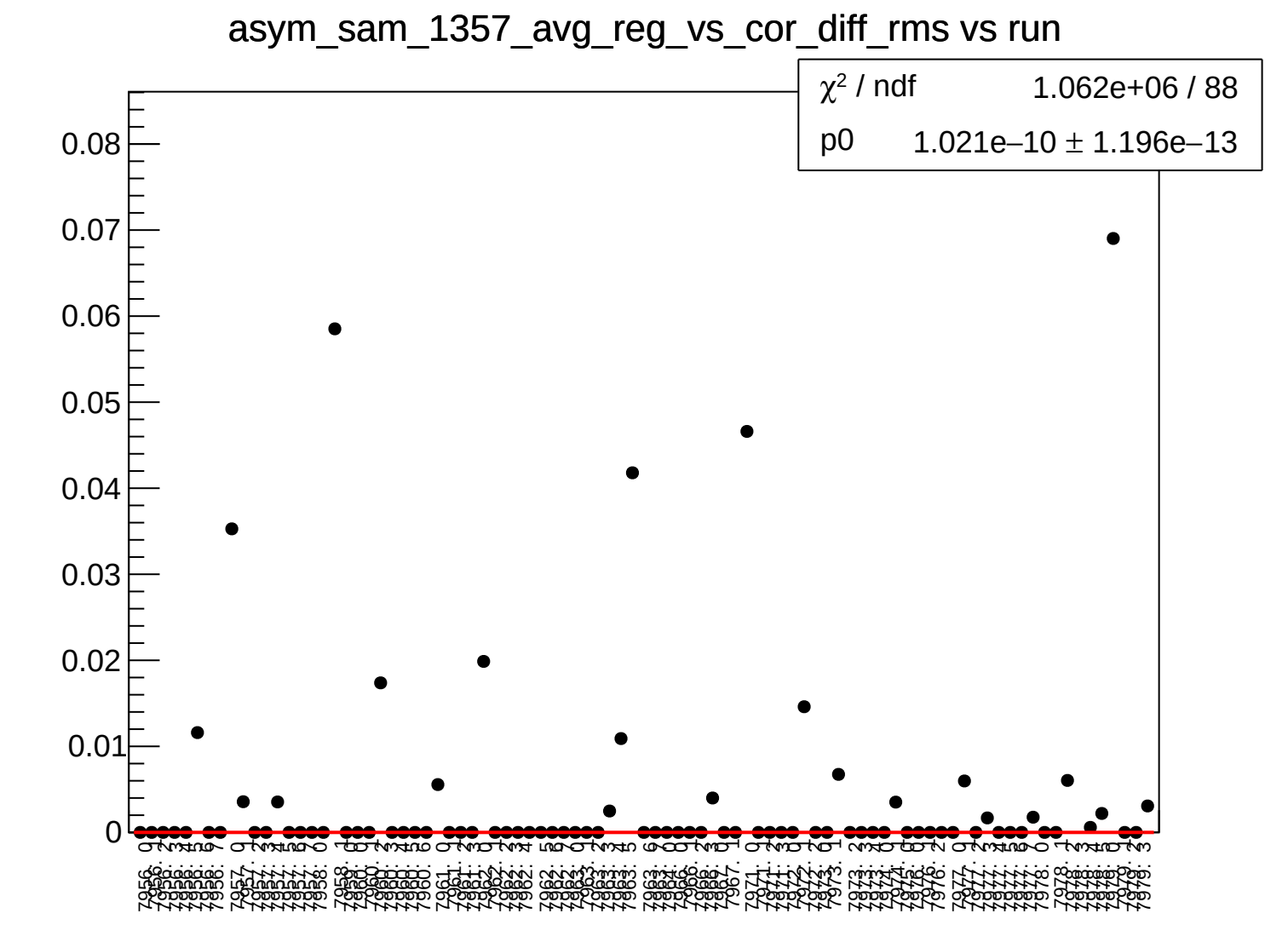

asym_sam_1357_avg_mean vs run
χ² / ndf 111.9 / 88
p0 −421.2 ± 1256
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1012
Std Dev 0
2
1
0
−1
−2
−3
−4

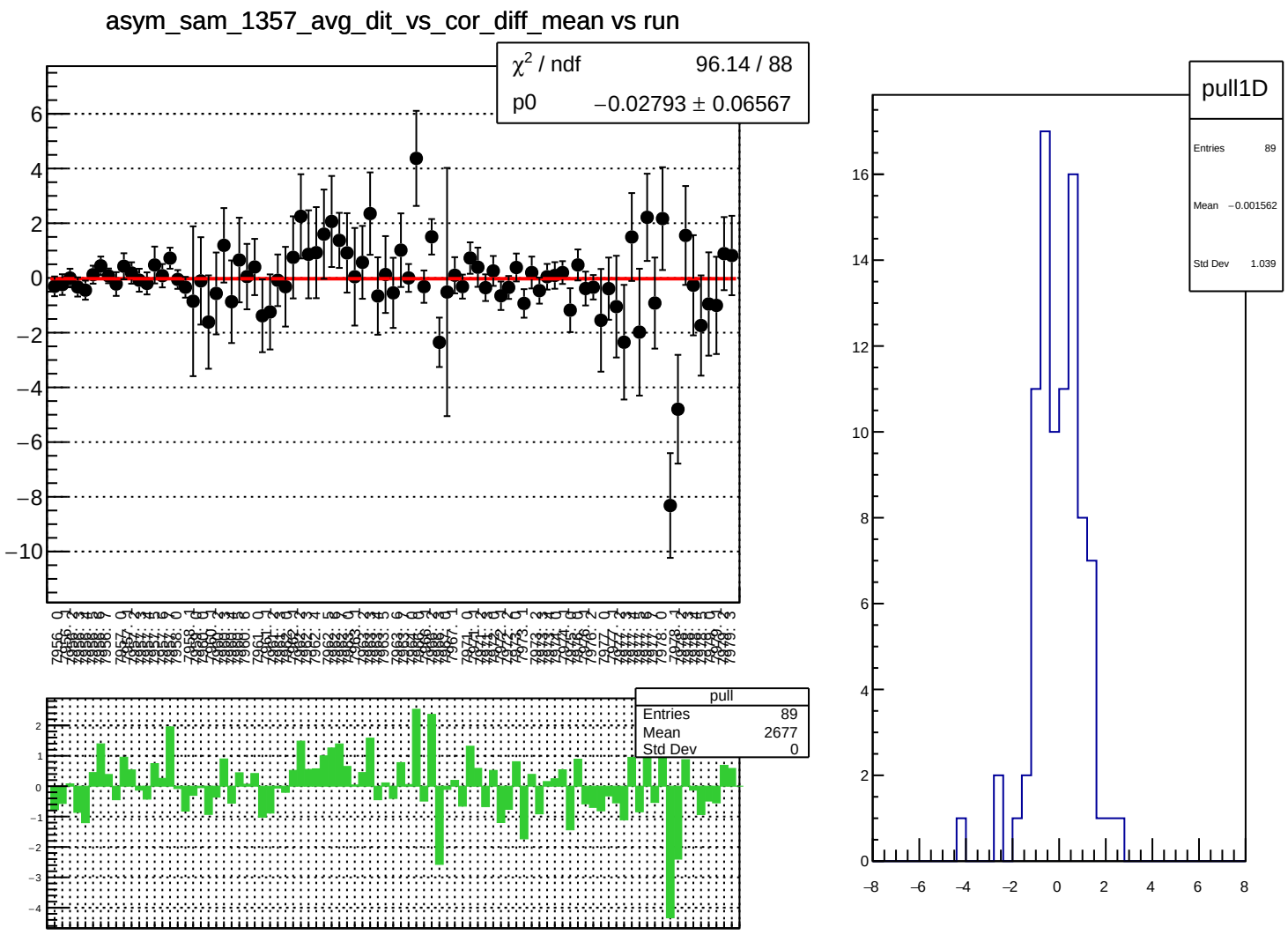

pull1D
Entries 89
Mean 0.002664
Std Dev 1.121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

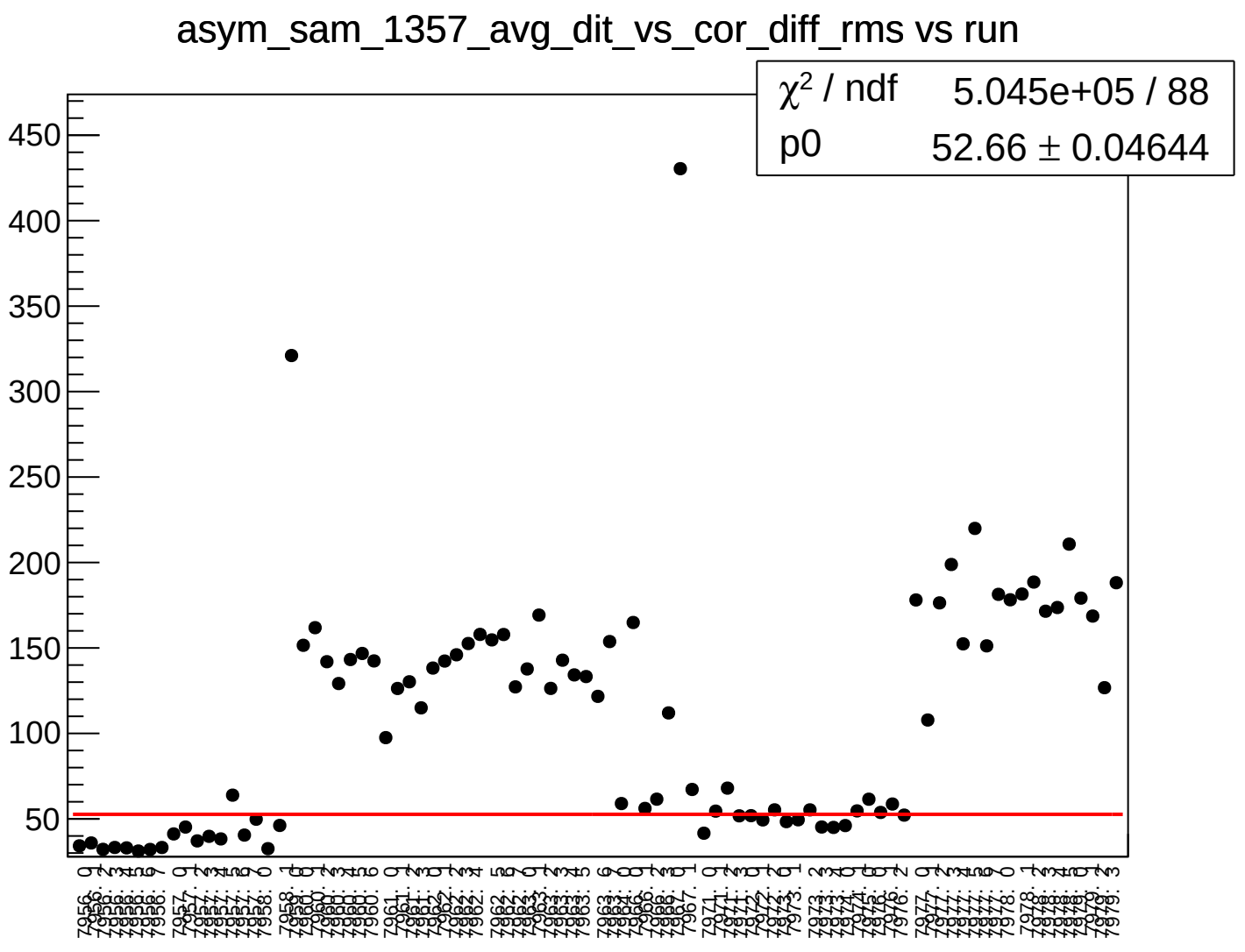

asym_sam_1357_avg_rms vs run
χ² / ndf 1.307e+04 / 88
p0 1184 ± 0.8881
1800
1600
1400
1200
1000
800

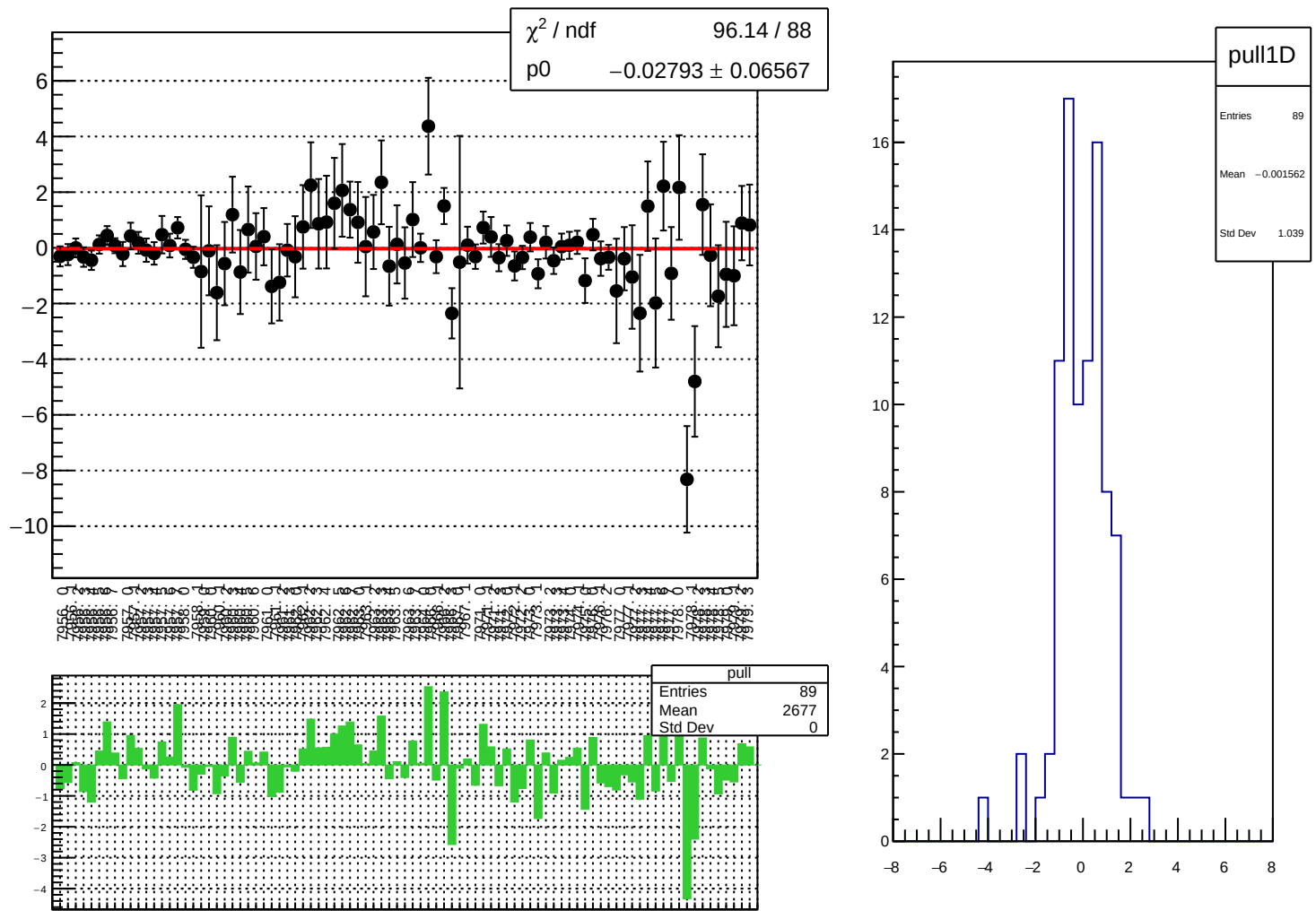

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 113.6 / 88
p0 −2.096e−13 ± 1.692e−13
pull
Entries 89
Mean 77.56
Std Dev 39.56

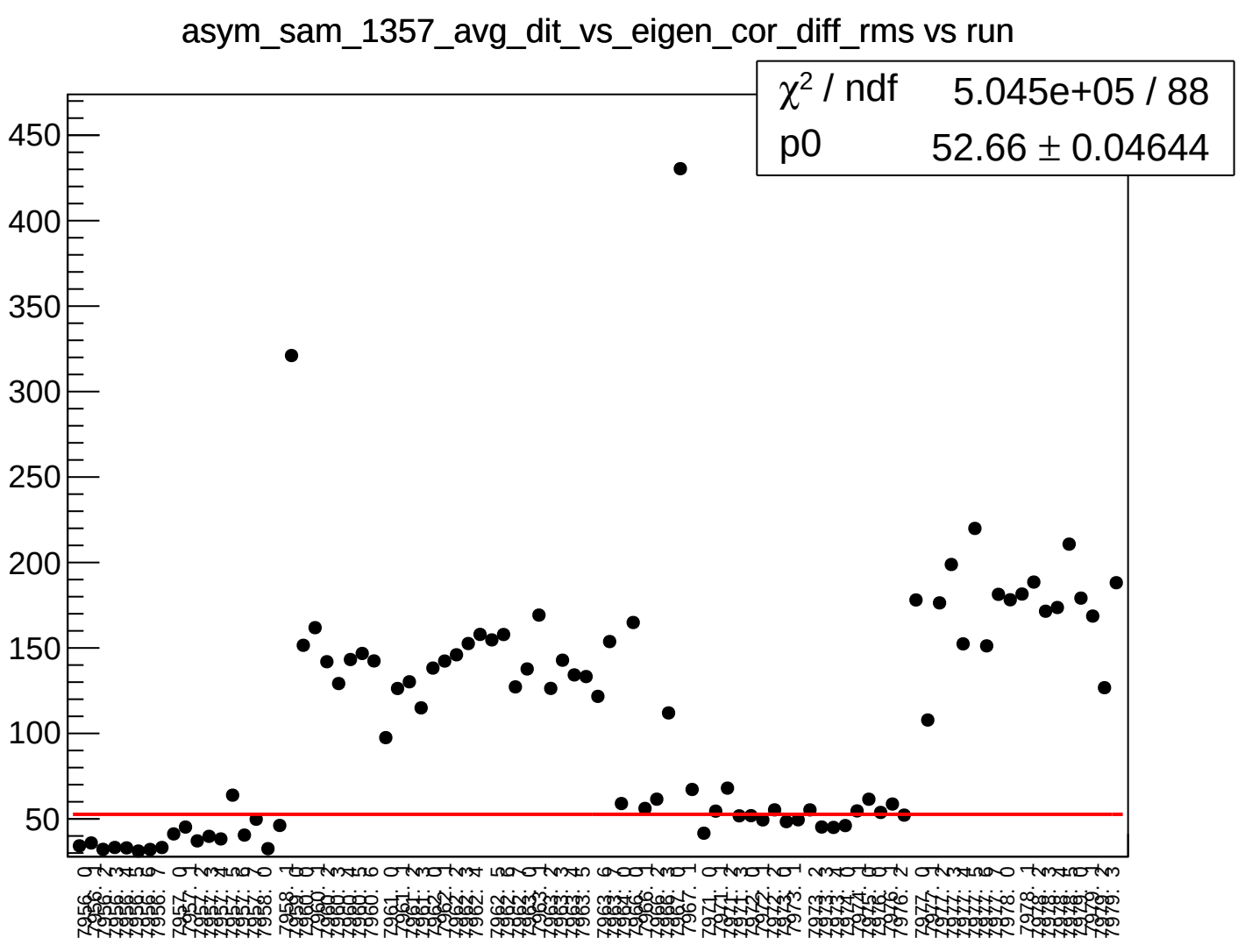

pull1D
Entries 89
Mean −0.02274
Std Dev 1.13

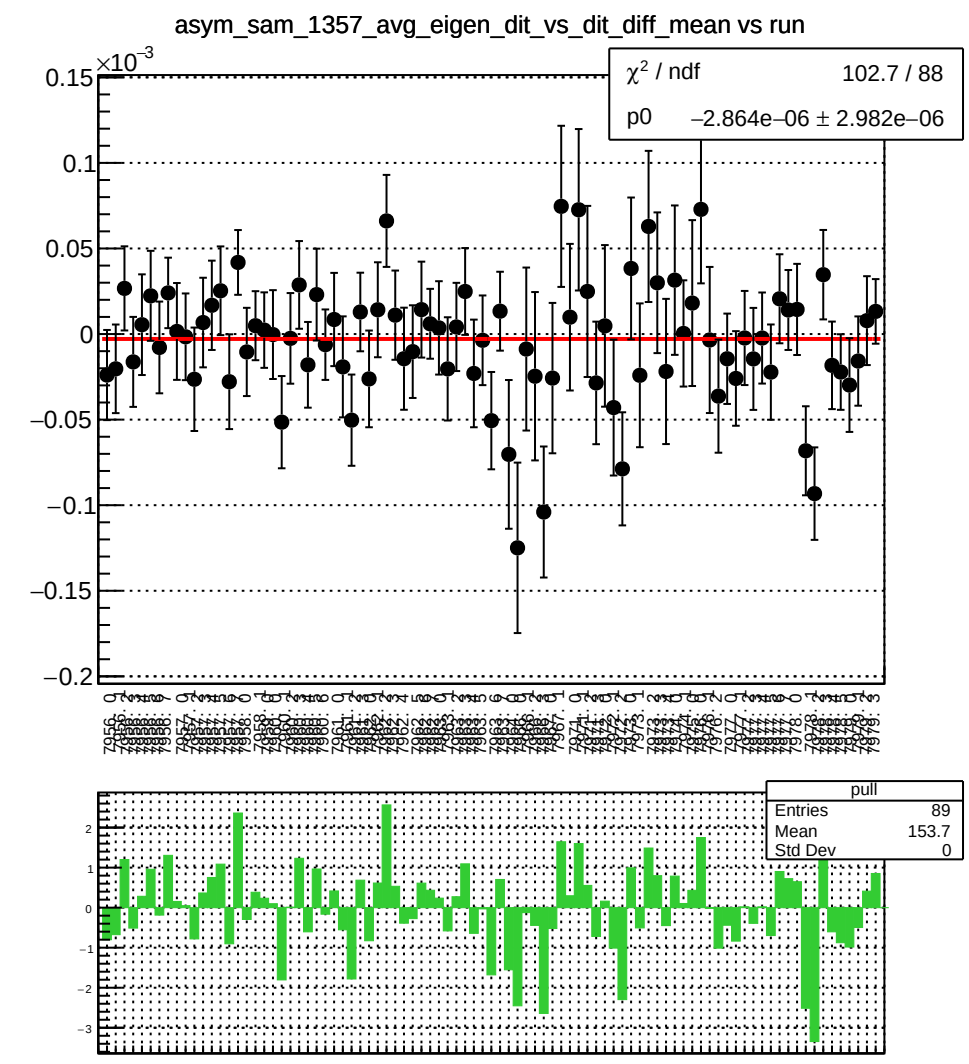

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.062e+06 / 88
p0 1.021e−10 ± 1.196e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

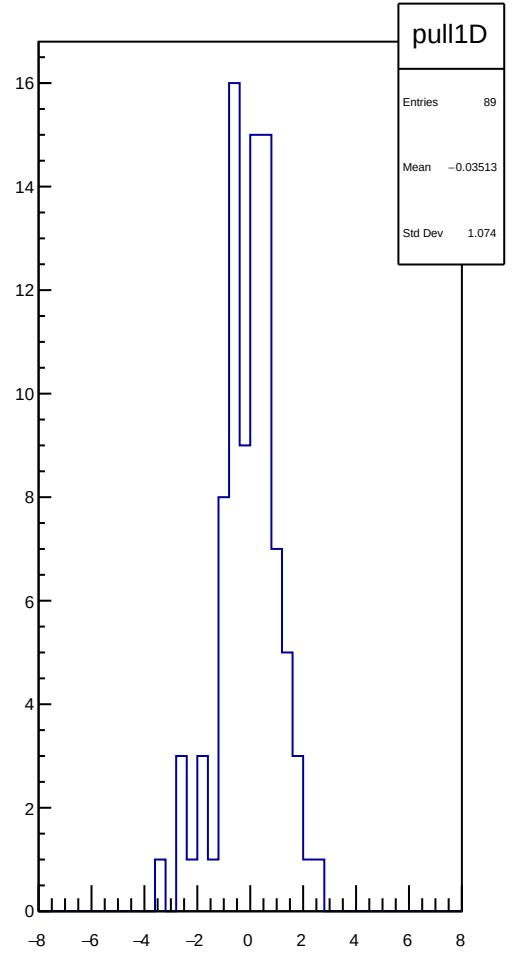

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.14 / 88
p0 −0.02793 ± 0.06567
pull
Entries 89
Mean 2677
Std Dev 0
pull1D
Entries 89
Mean −0.001562
Std Dev 1.039

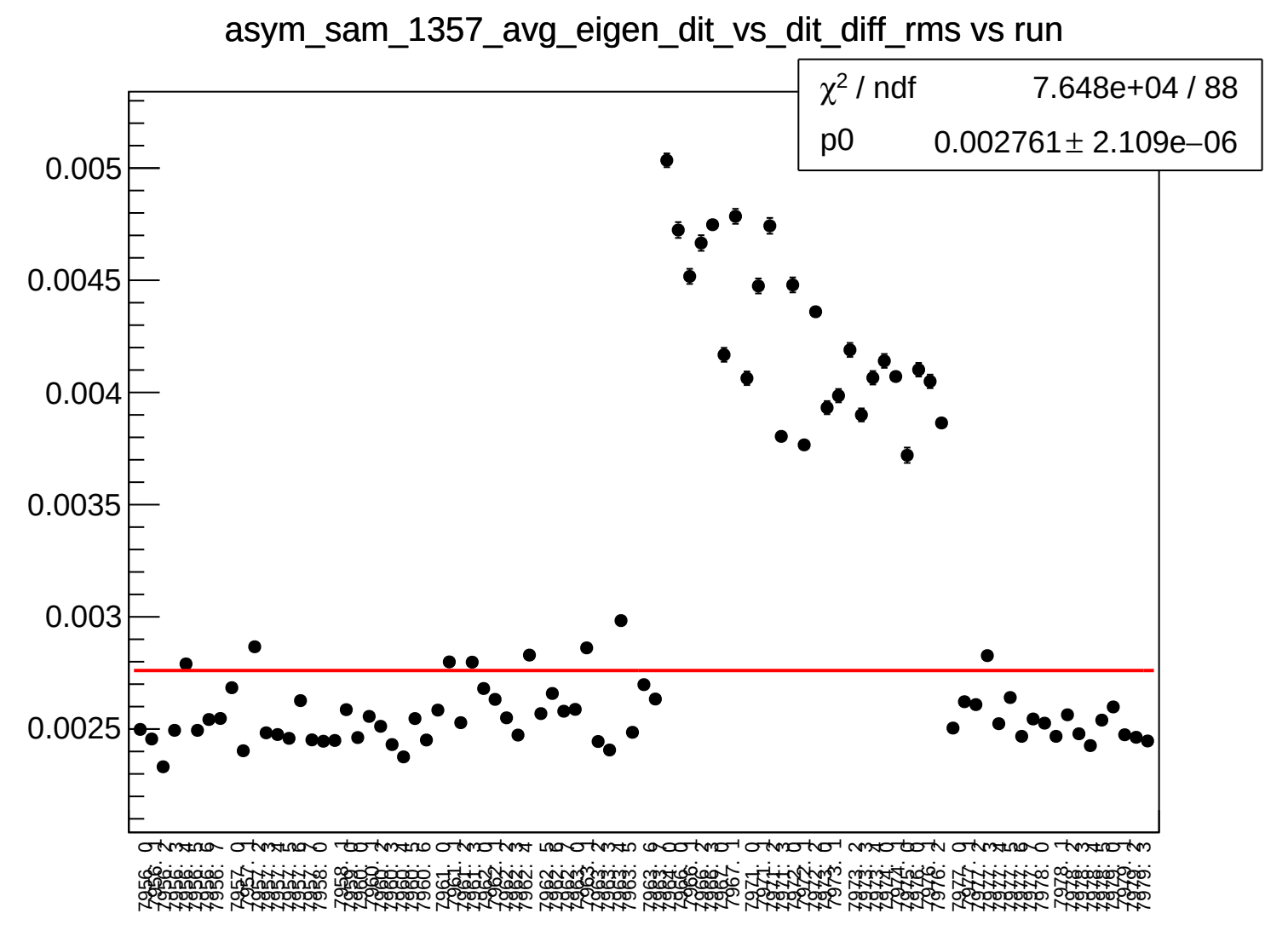

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.045e+05 / 88
p0 52.66 ± 0.04644
450
400
350
300
250
200
150
100
50

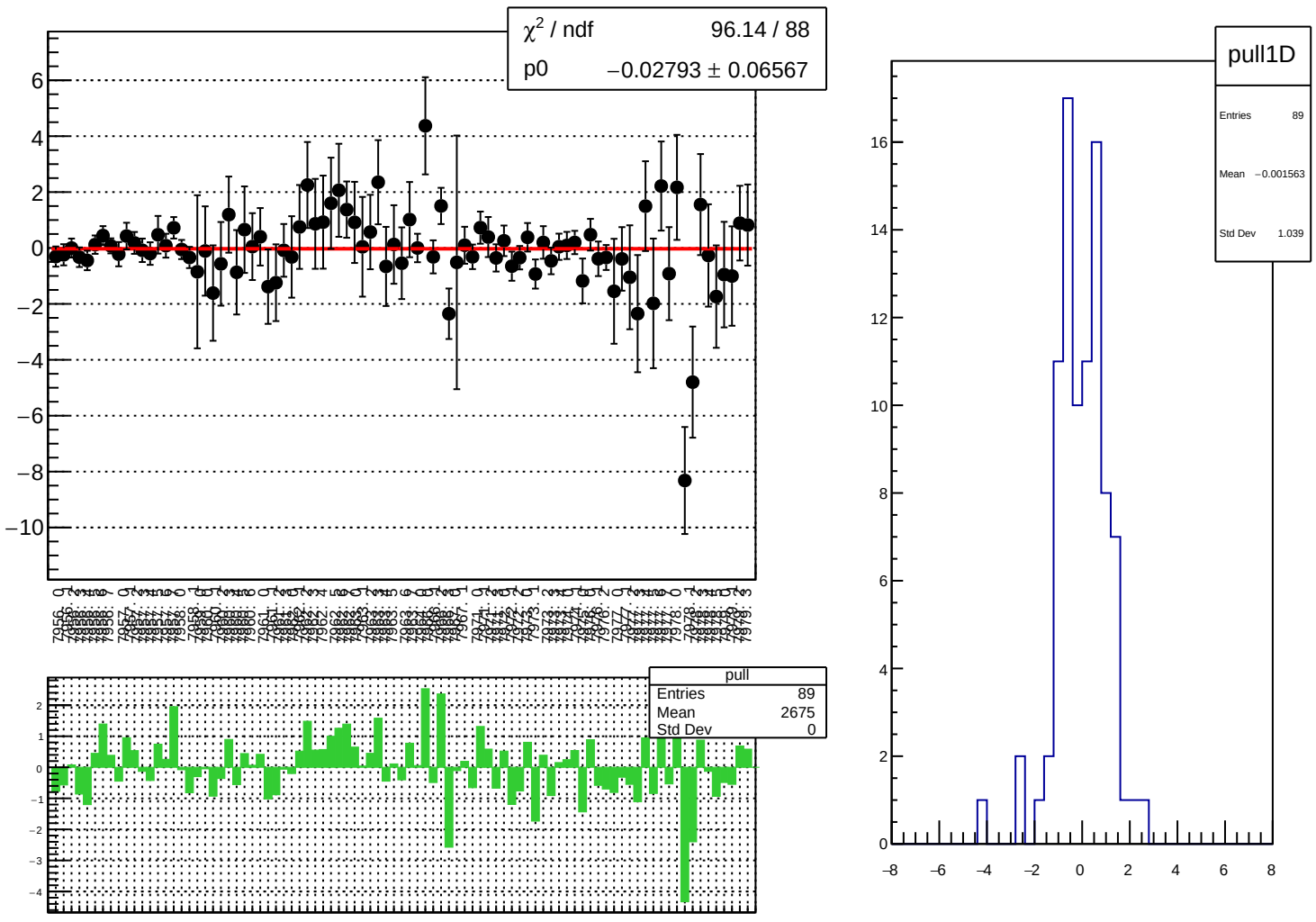

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.14 / 88
p0 −0.02793 ± 0.06567
pull
Entries 89
Mean 2677
Std Dev 0
pull1D
Entries 89
Mean −0.001562
Std Dev 1.039

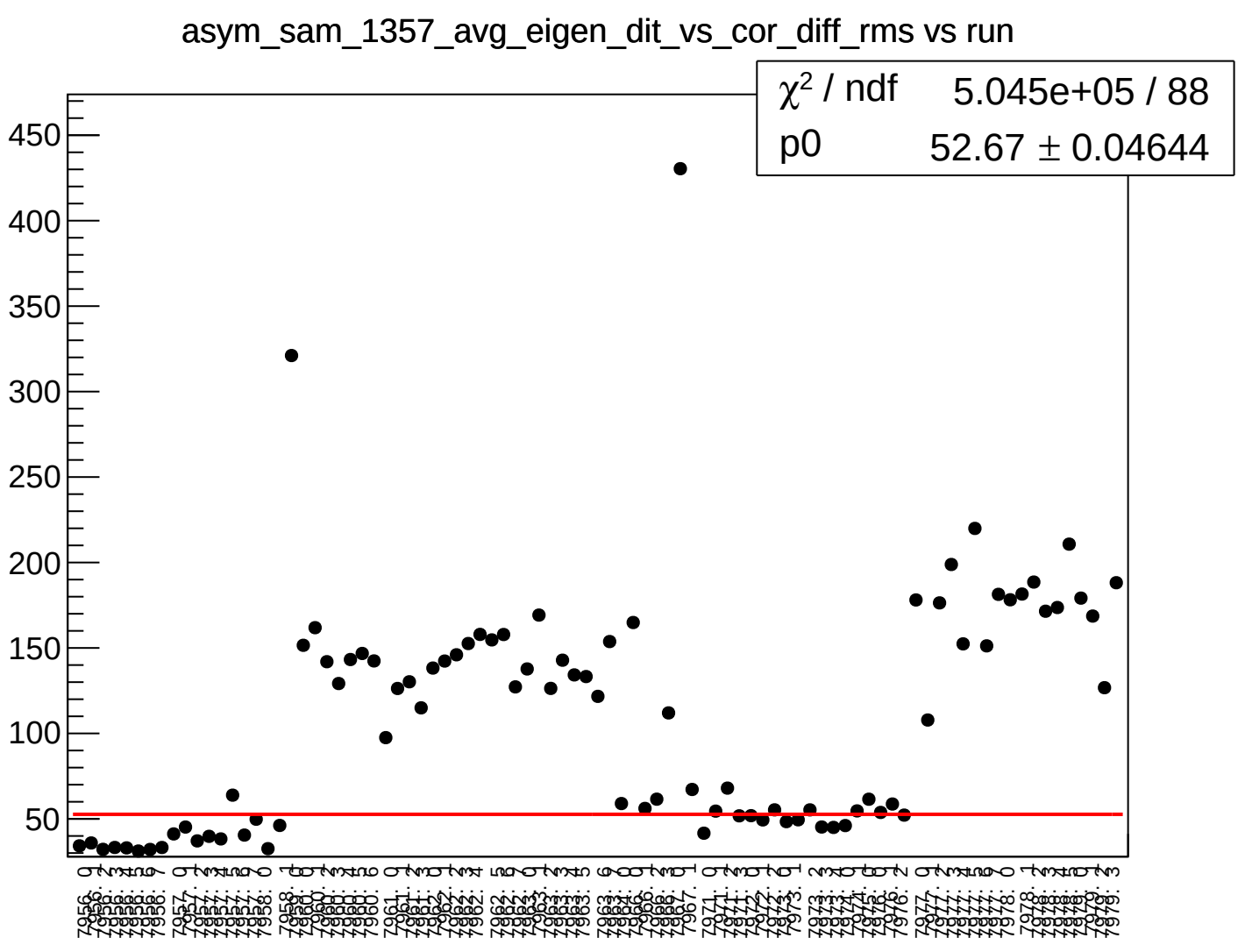

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 5.045e+05 / 88
p0 52.66 ± 0.04644
450
400
350
300
250
200
150
100
50

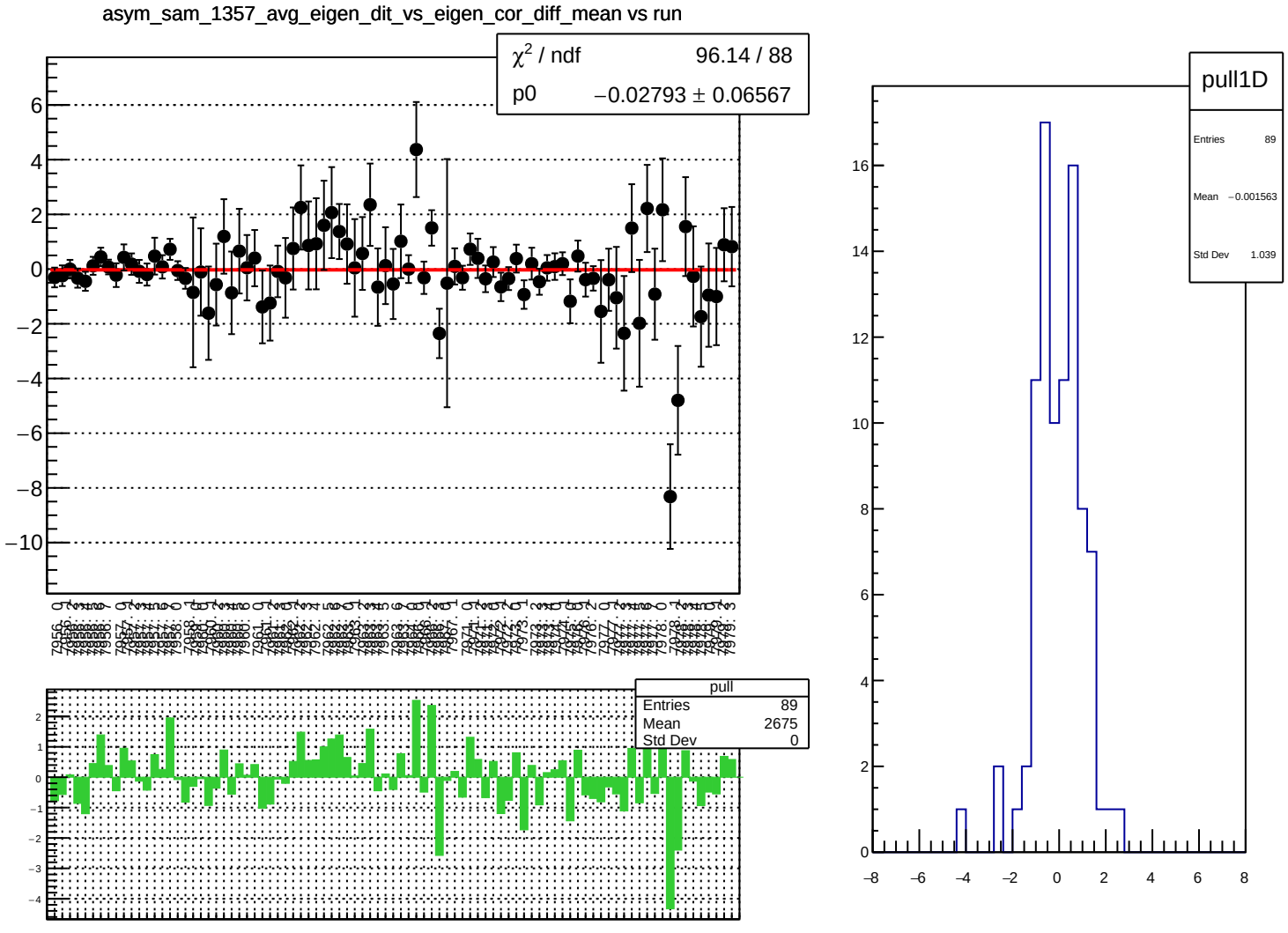

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.7 / 88
p0 −2.864e−06 ± 2.982e−06
pull
Entries 89
Mean 153.7
Std Dev 0

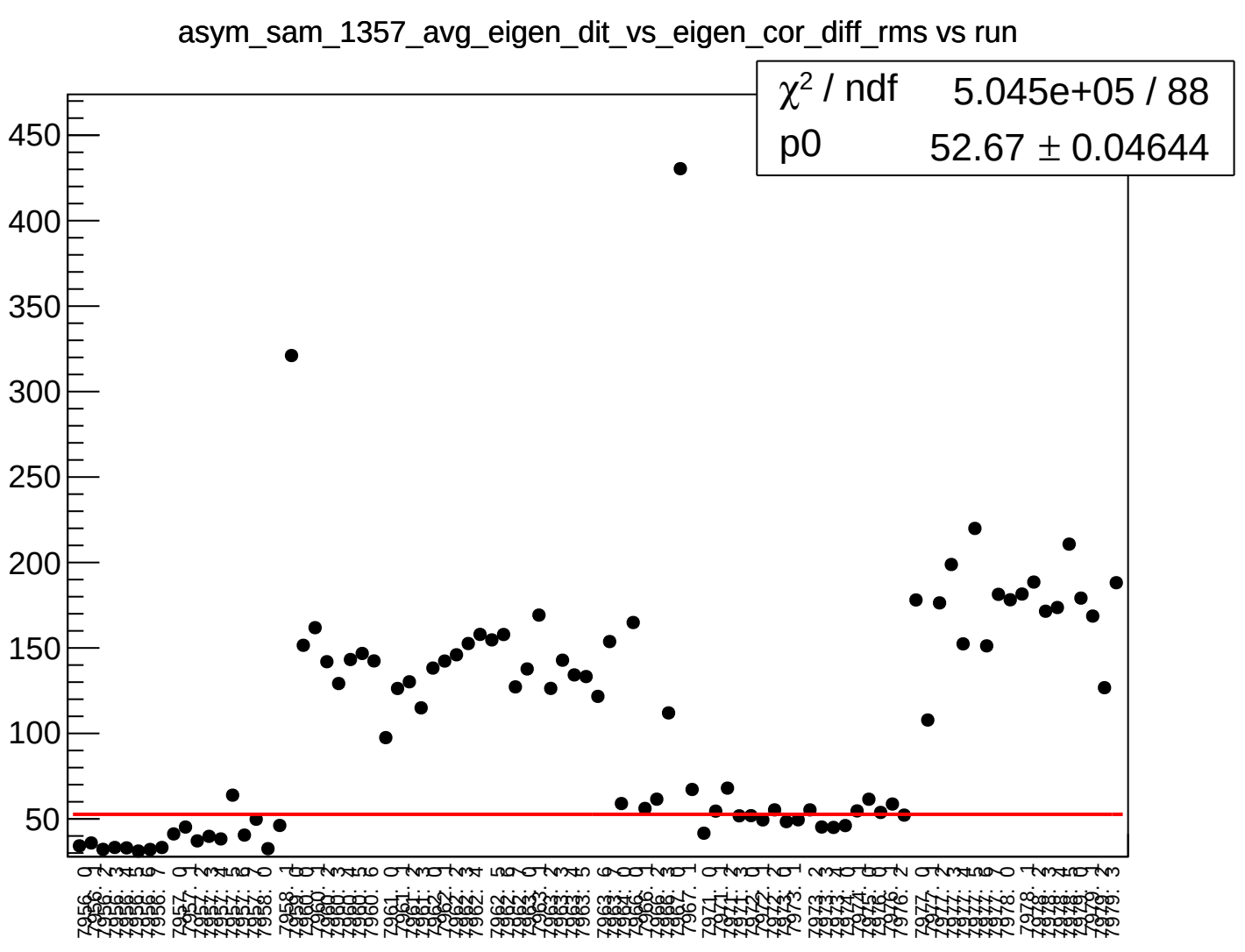

pull1D
Entries 89
Mean −0.03513
Std Dev 1.074

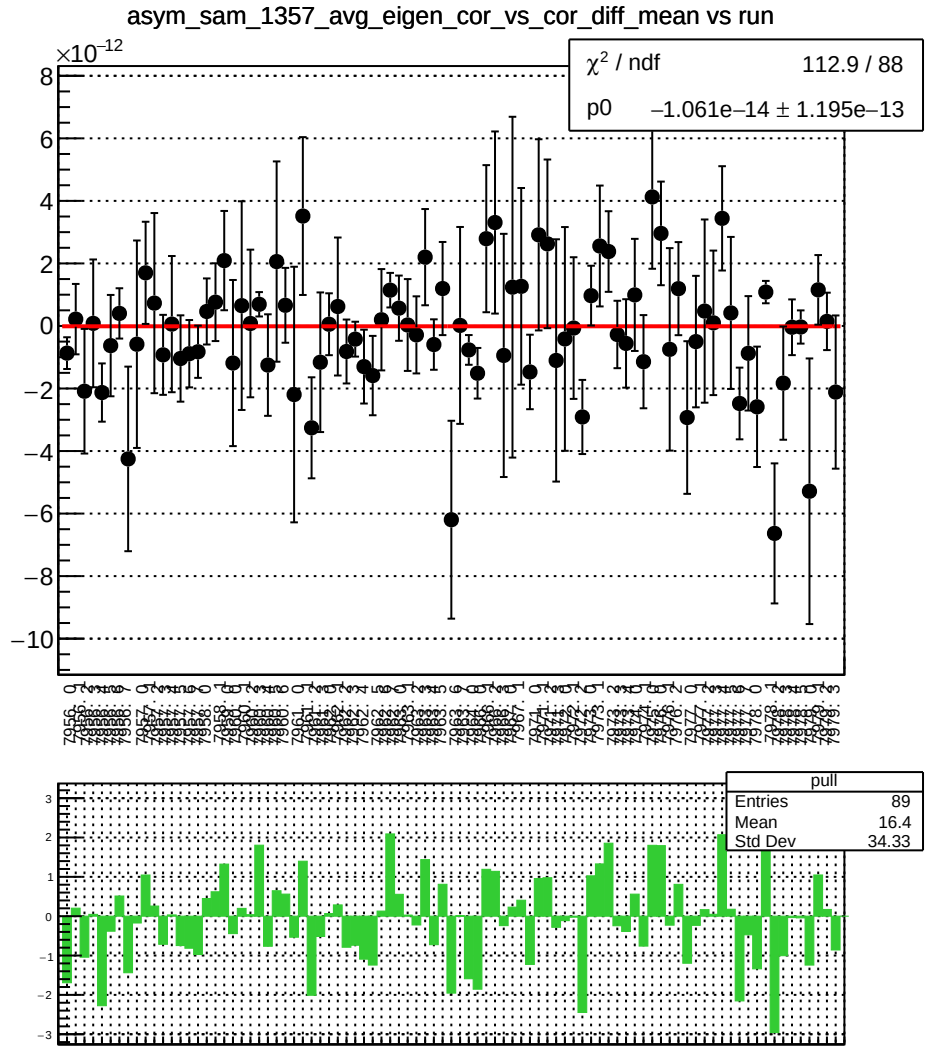

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.648e+04 / 88
p0 0.002761 ± 2.109e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

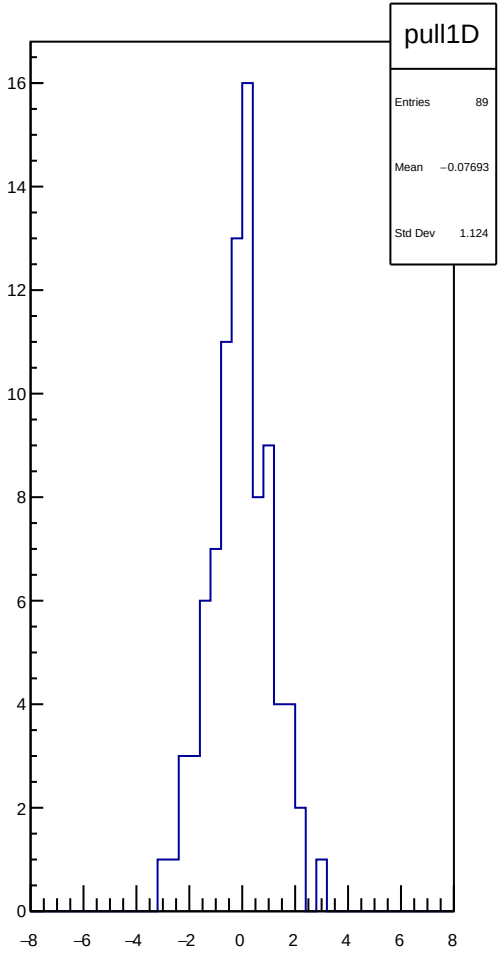

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.14 / 88
p0 −0.02793 ± 0.06567
pull
Entries 89
Mean 2675
Std Dev 0
pull1D
Entries 89
Mean −0.001563
Std Dev 1.039

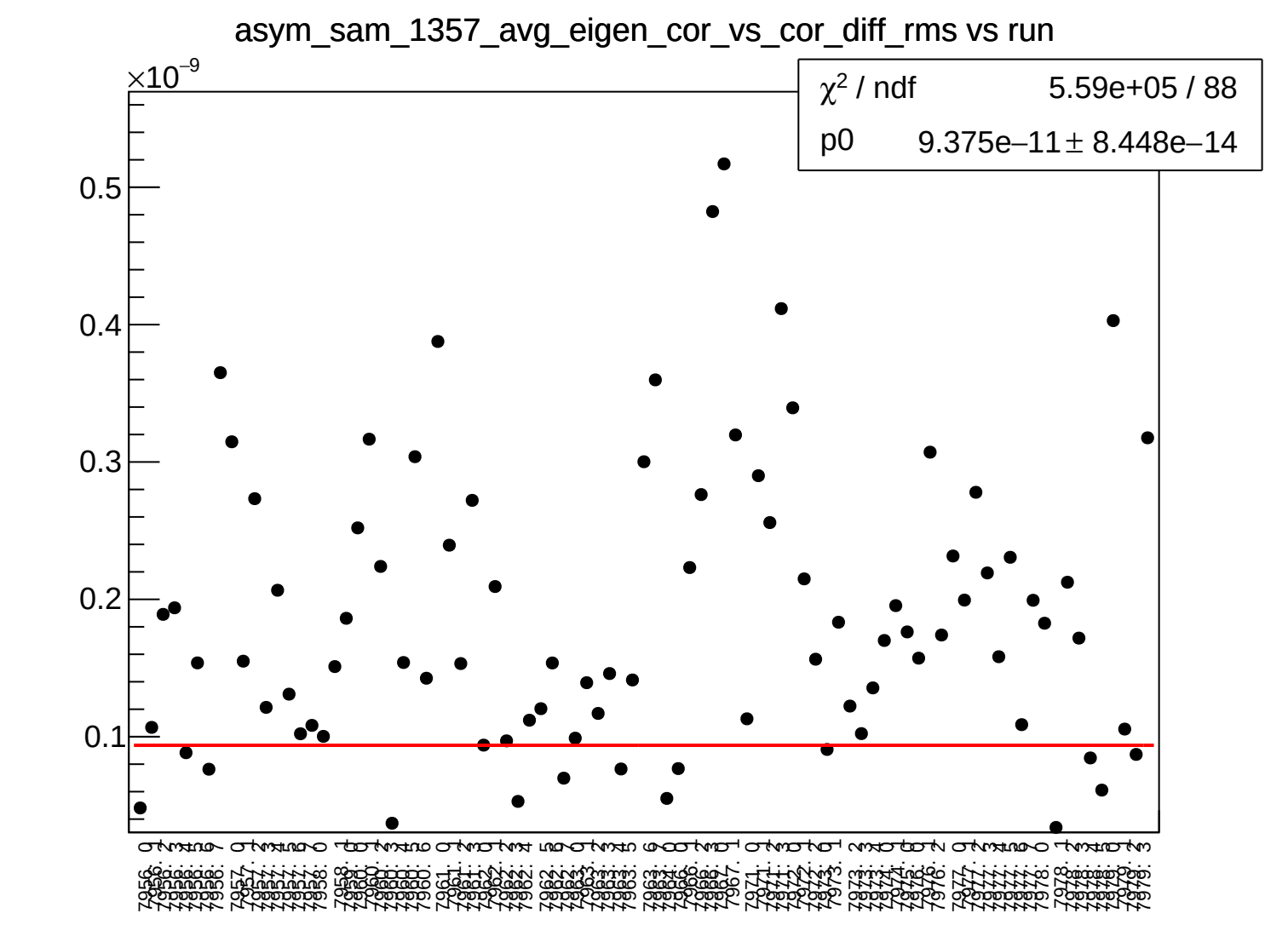

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.045e+05 / 88
p0 52.67 ± 0.04644
450
400
350
300
250
200
150
100
50

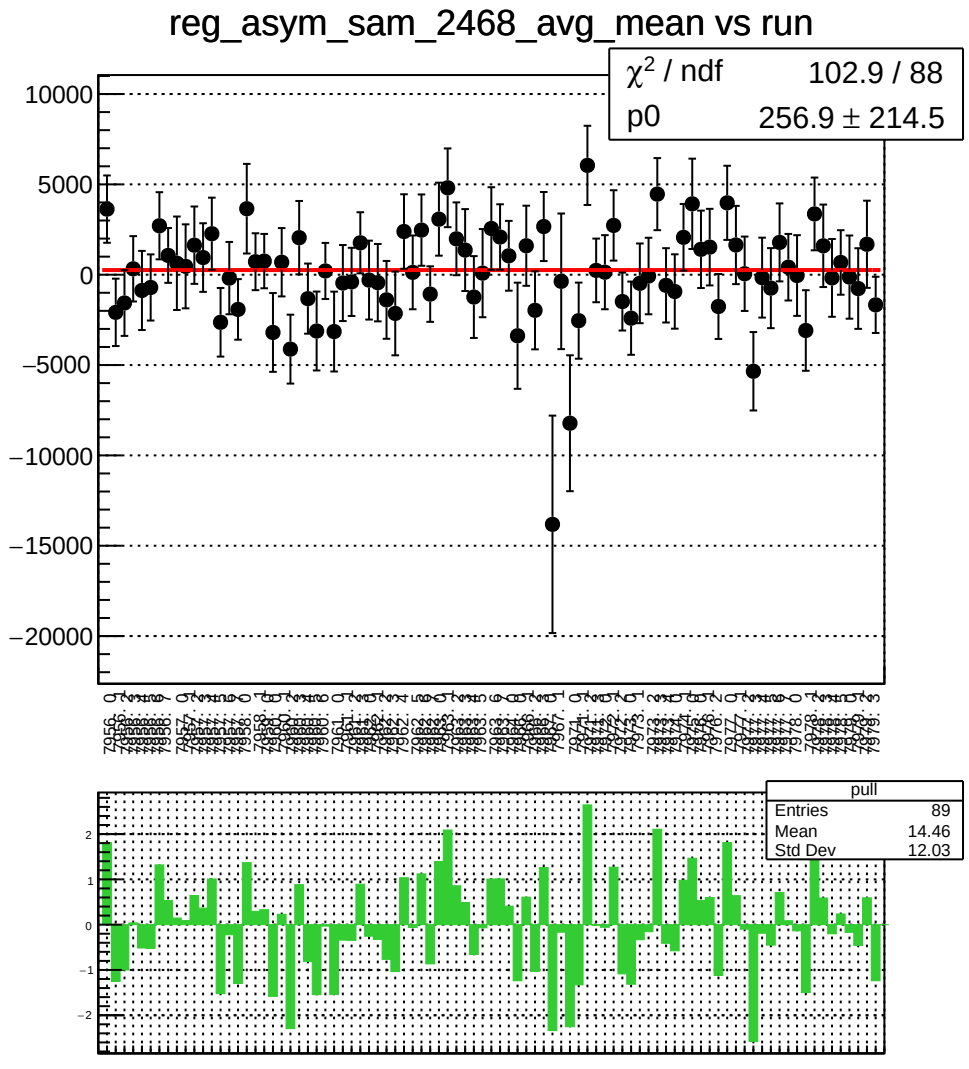

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.14 / 88
p0 −0.02793 ± 0.06567
pull
Entries 89
Mean 2675
Std Dev 0
pull1D
Entries 89
Mean −0.001563
Std Dev 1.039

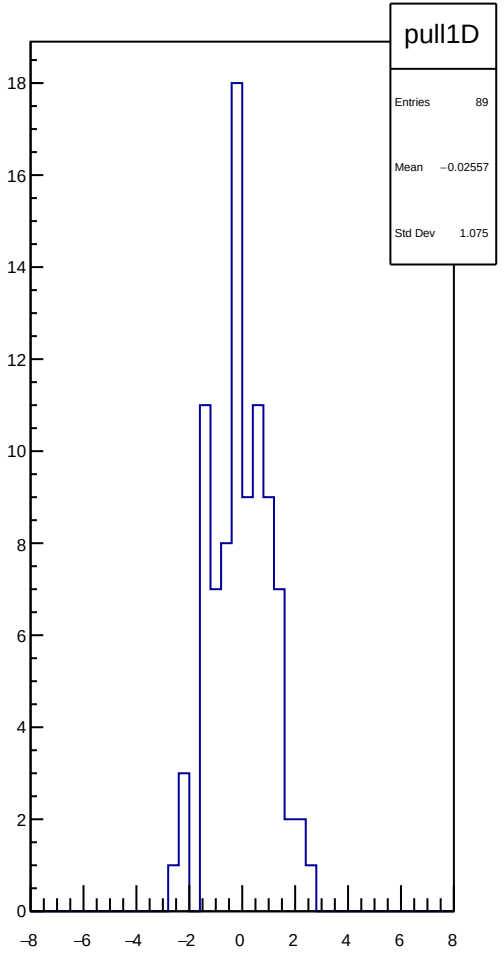

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.045e+05 / 88
p0 52.67 ± 0.04644
450
400
350
300
250
200
150
100
50

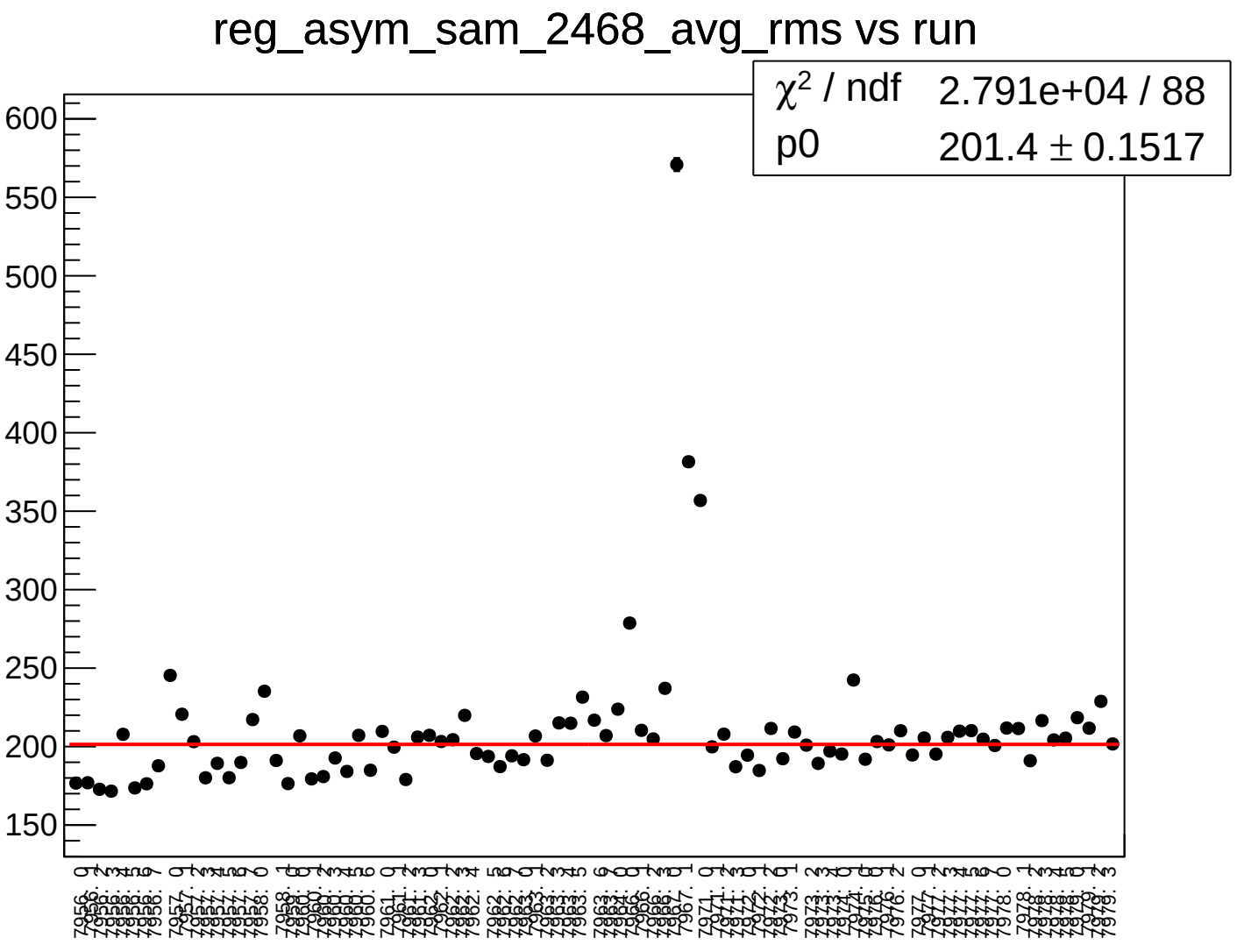

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.9 / 88
p0 −1.061e−14 ± 1.195e−13
pull
Entries 89
Mean 16.4
Std Dev 34.33

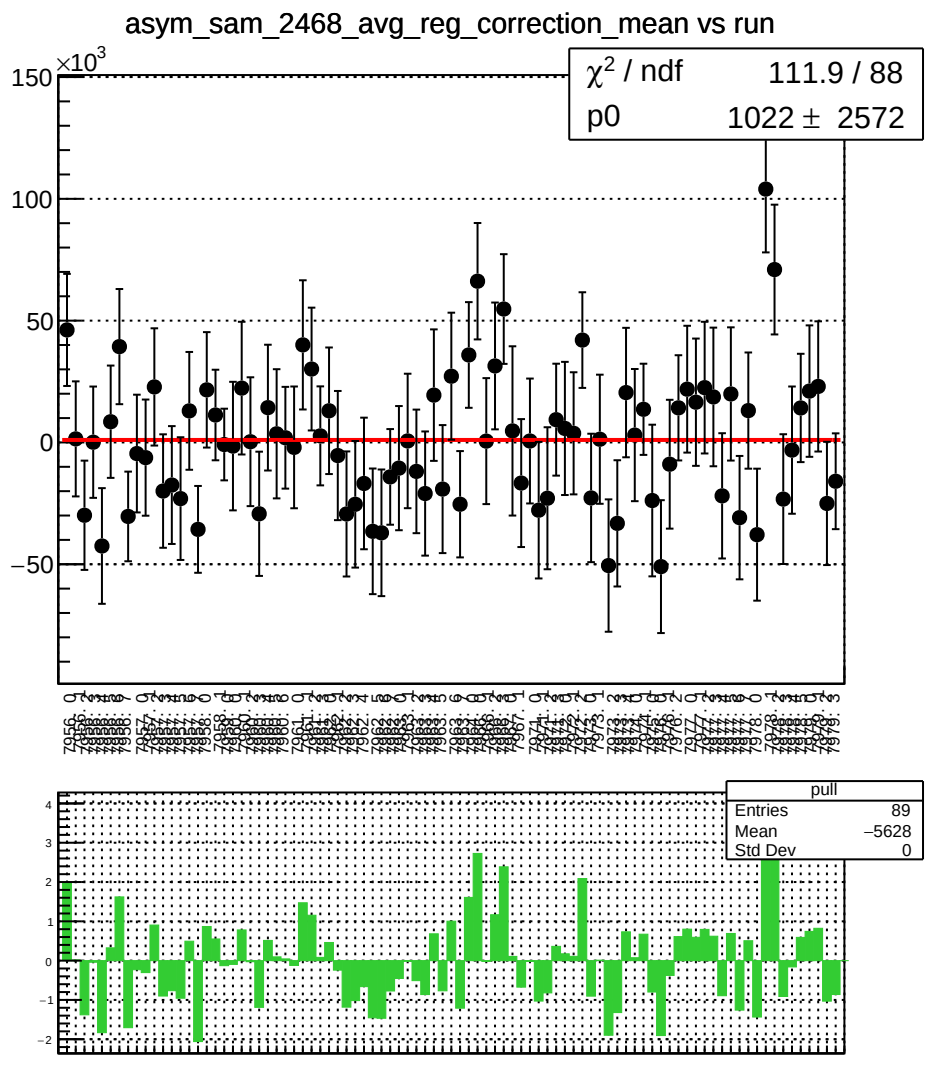

pull1D
Entries 89
Mean −0.07693
Std Dev 1.124

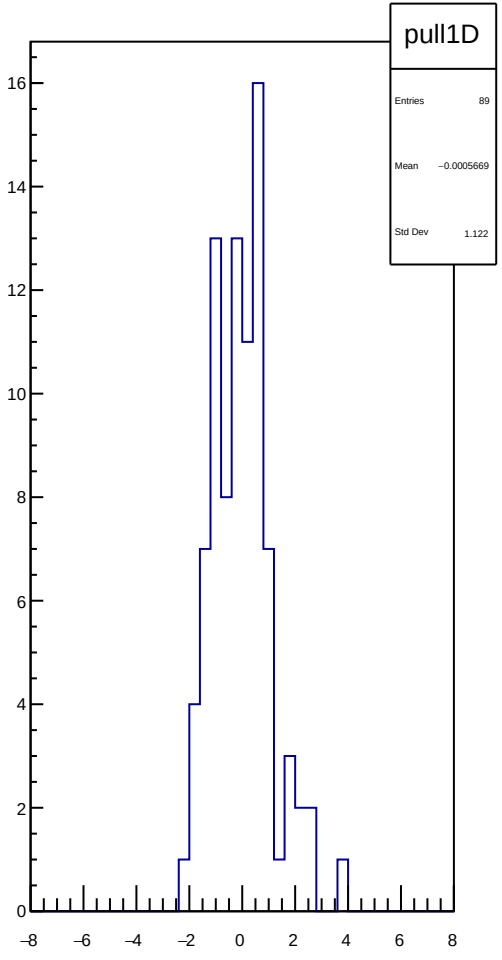

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.59e+05 / 88
p0 9.375e−11 ± 8.448e−14
0.5
0.4
0.3
0.2
0.1

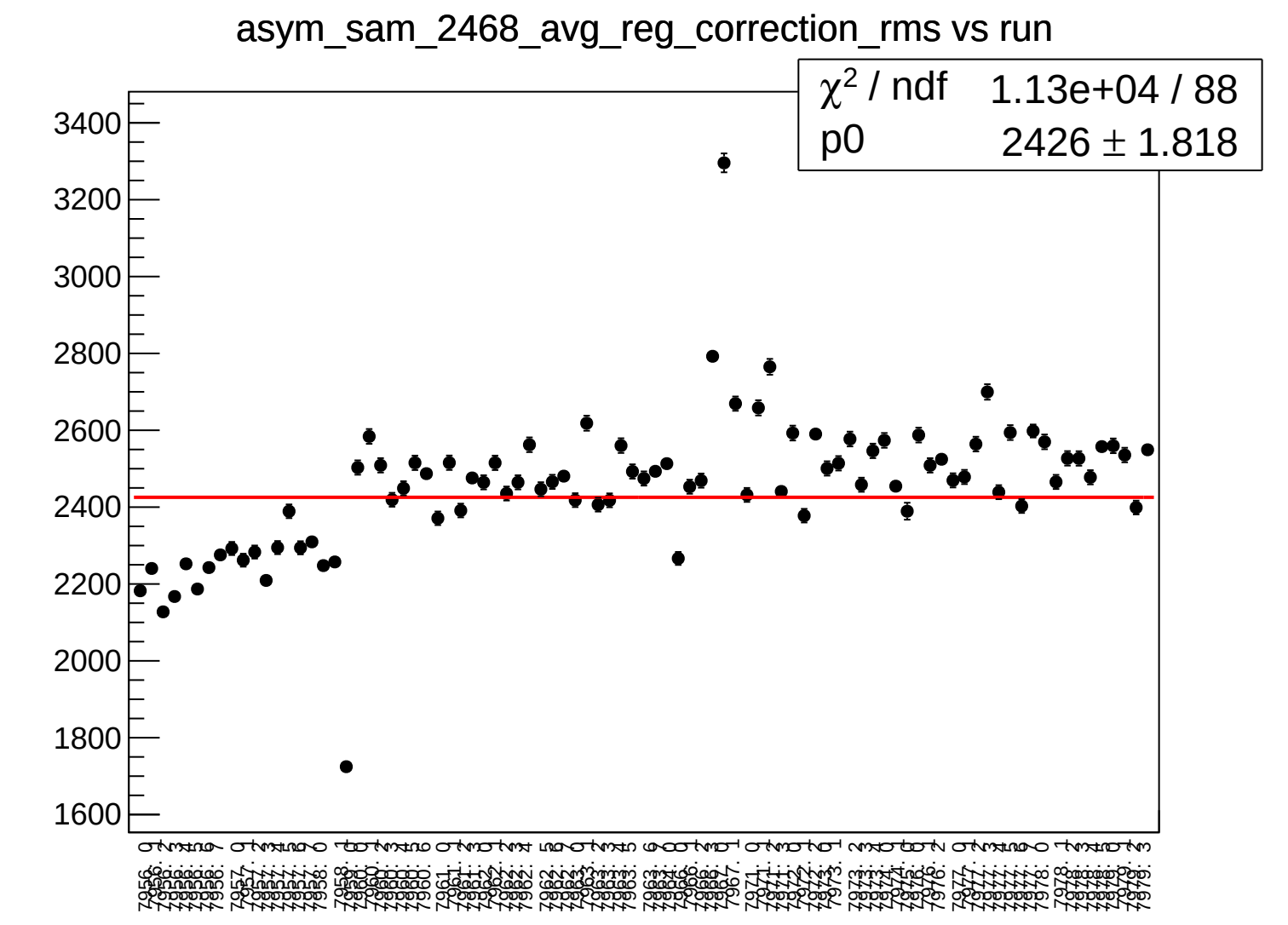

reg_asym_sam_2468_avg_mean vs run
$\chi^2$ / ndf 102.9 / 88
p0 256.9 ± 214.5
pull
Entries 89
Mean 14.46
Std Dev 12.03

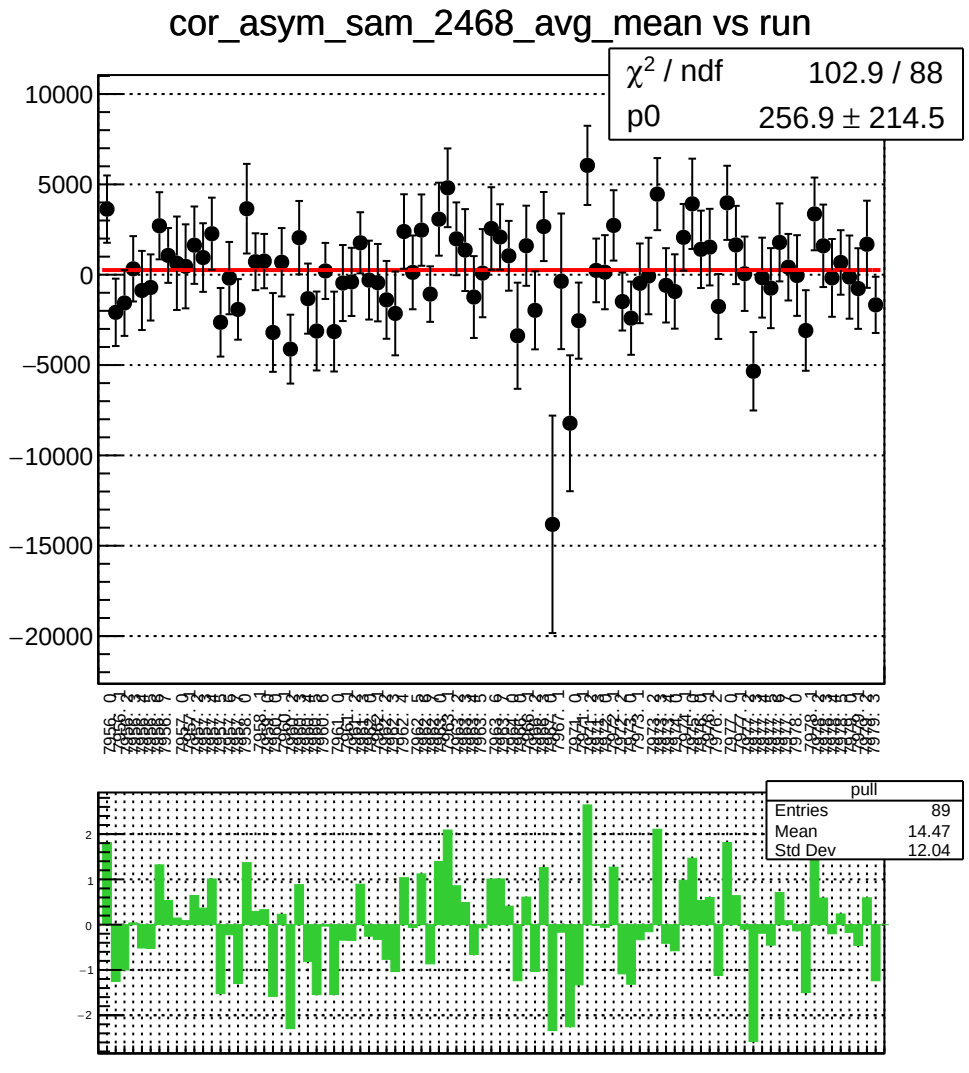

pull1D
Entries 89
Mean −0.02557
Std Dev 1.075

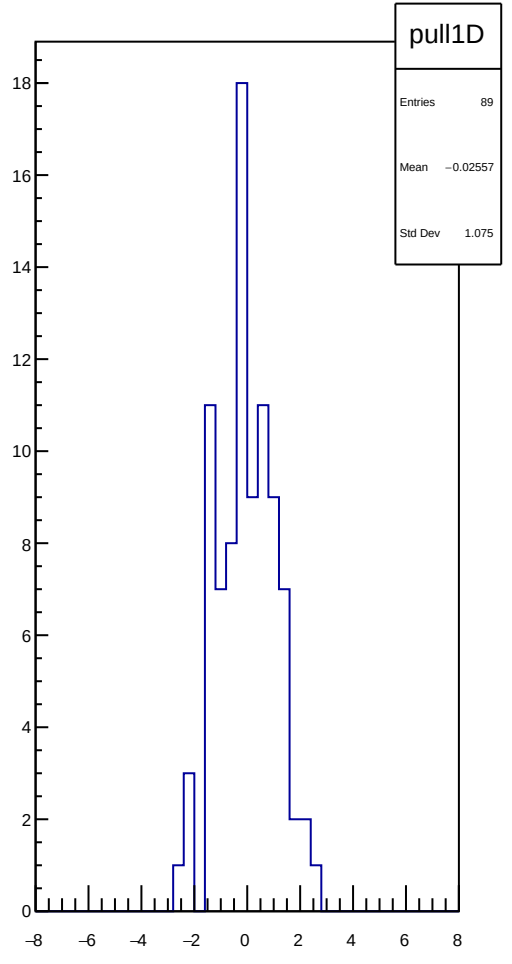

reg_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 2.791e+04 / 88
p0 201.4 ± 0.1517
600
550
500
450
400
350
300
250
200
150

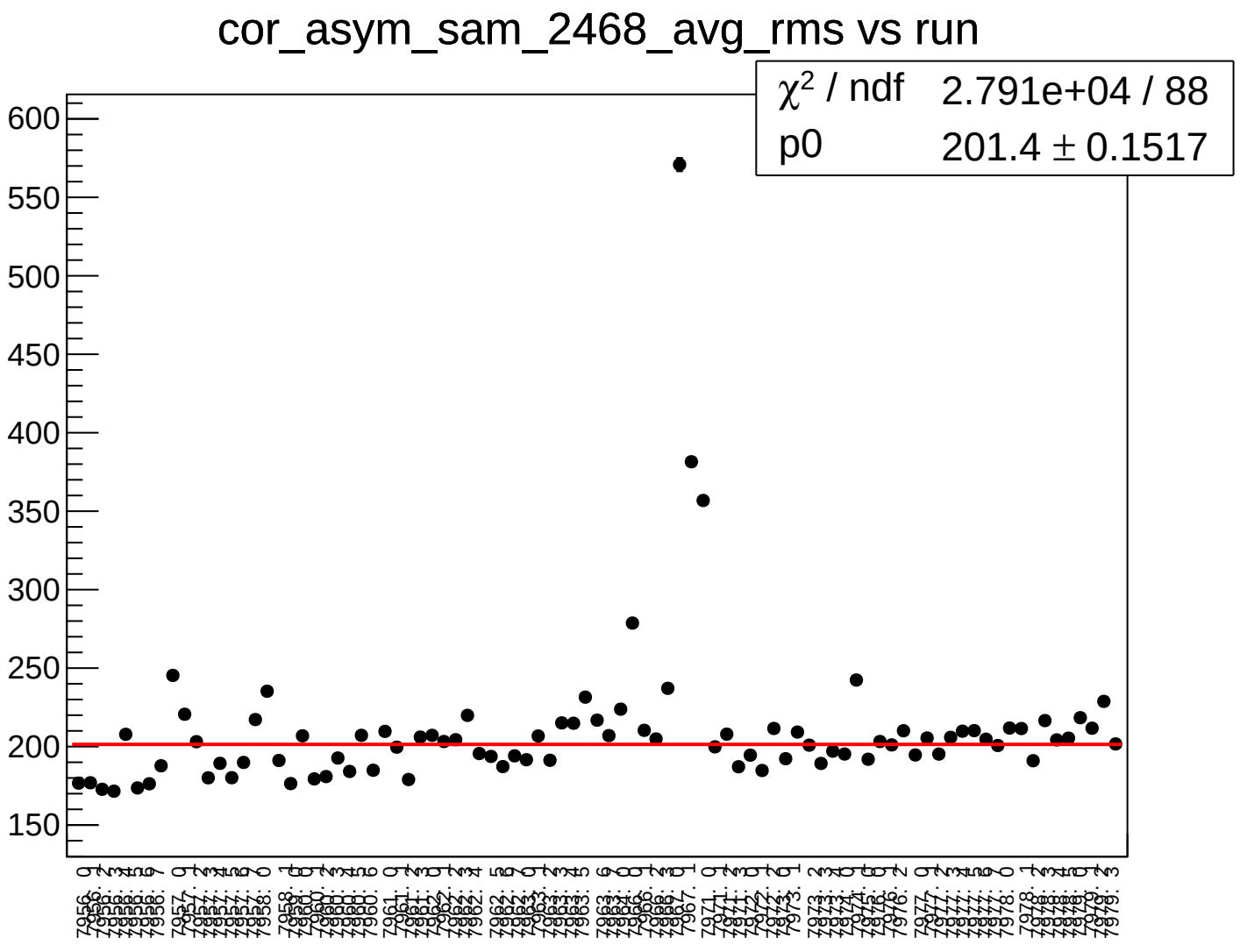

asym_sam_2468_avg_reg_correction_mean vs run
×10^3
χ² / ndf 111.9 / 88
p0 1022 ± 2572
150
100
50
0
−50
pull
Entries 89
Mean −5628
Std Dev 0
4
3
2
1
0
−1
−2

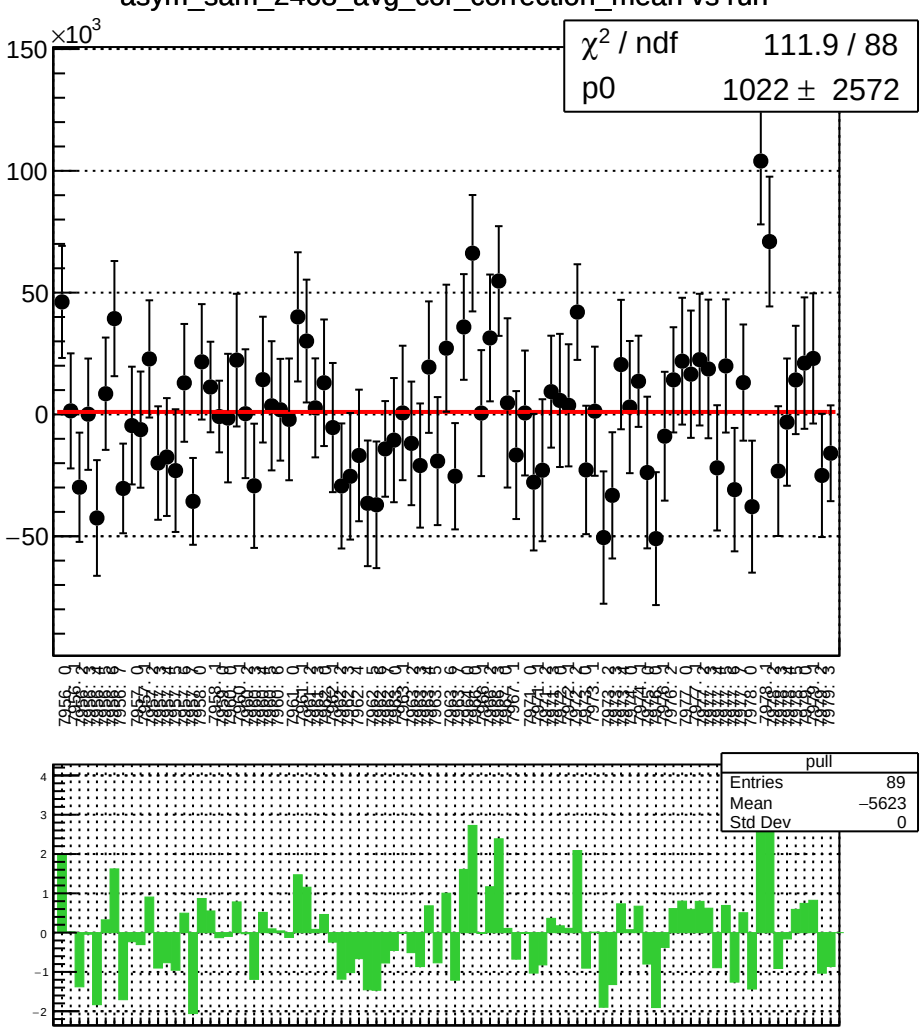

pull1D
Entries 89
Mean −0.0005669
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

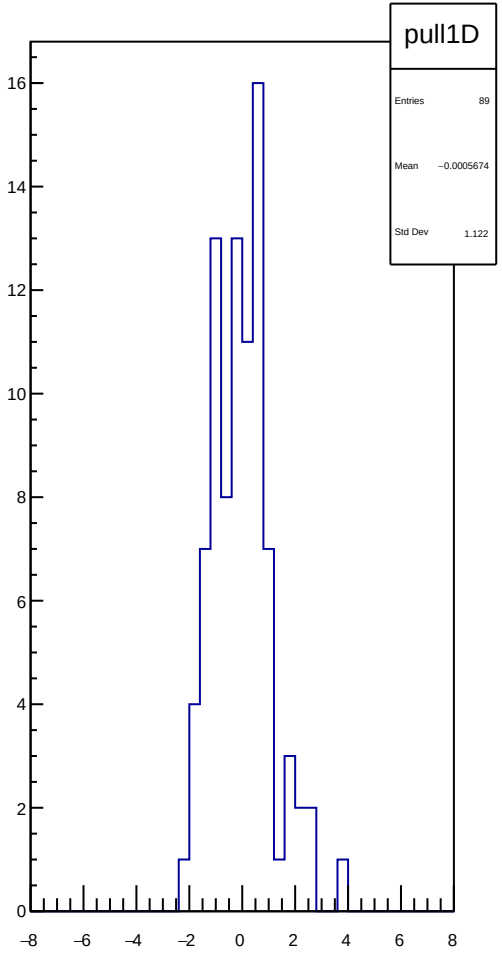

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.13e+04 / 88
p0 2426 ± 1.818
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

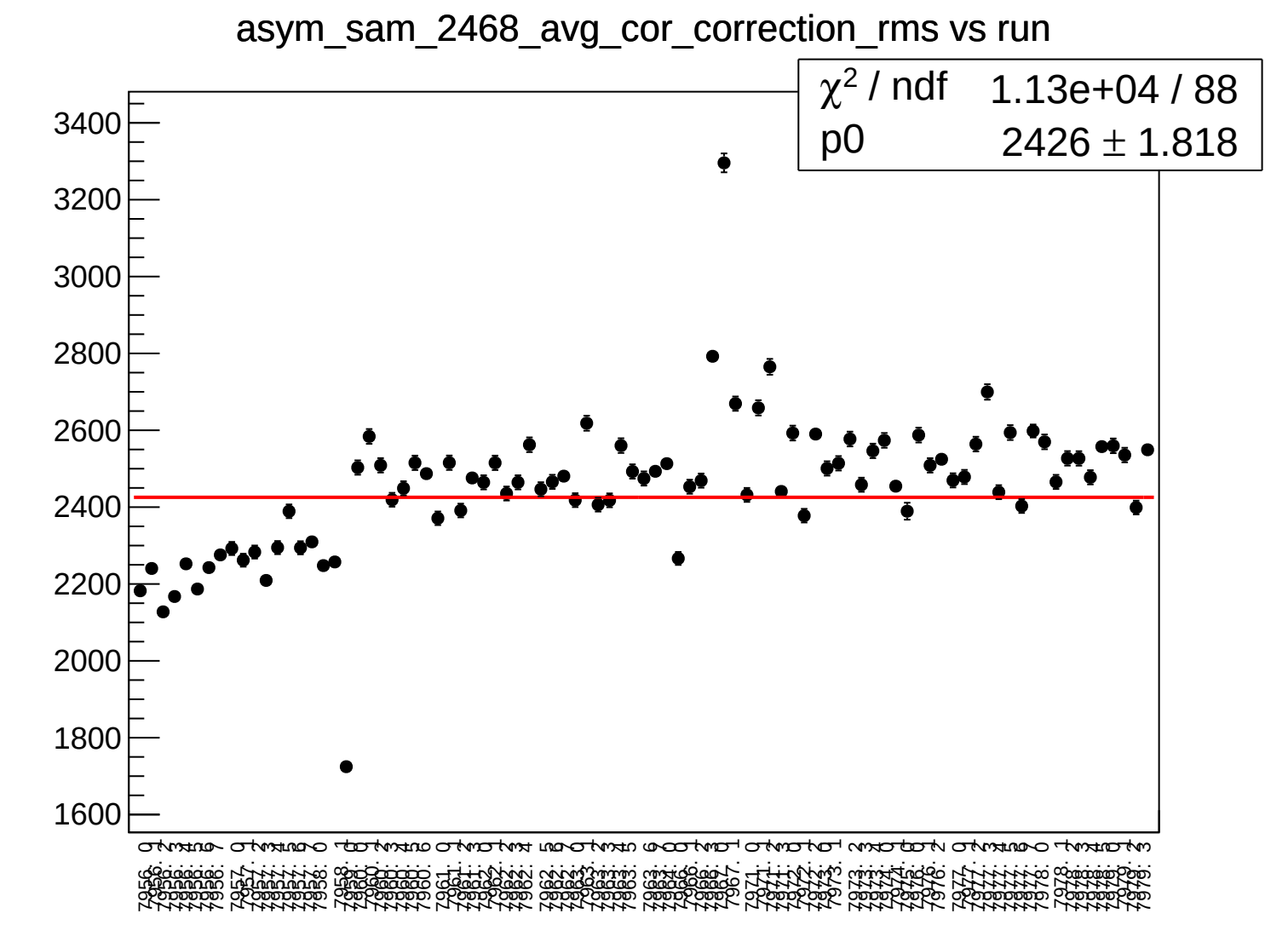

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 102.9 / 88
p0 256.9 ± 214.5
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 14.47
Std Dev 12.04
2
1
0
−1
−2

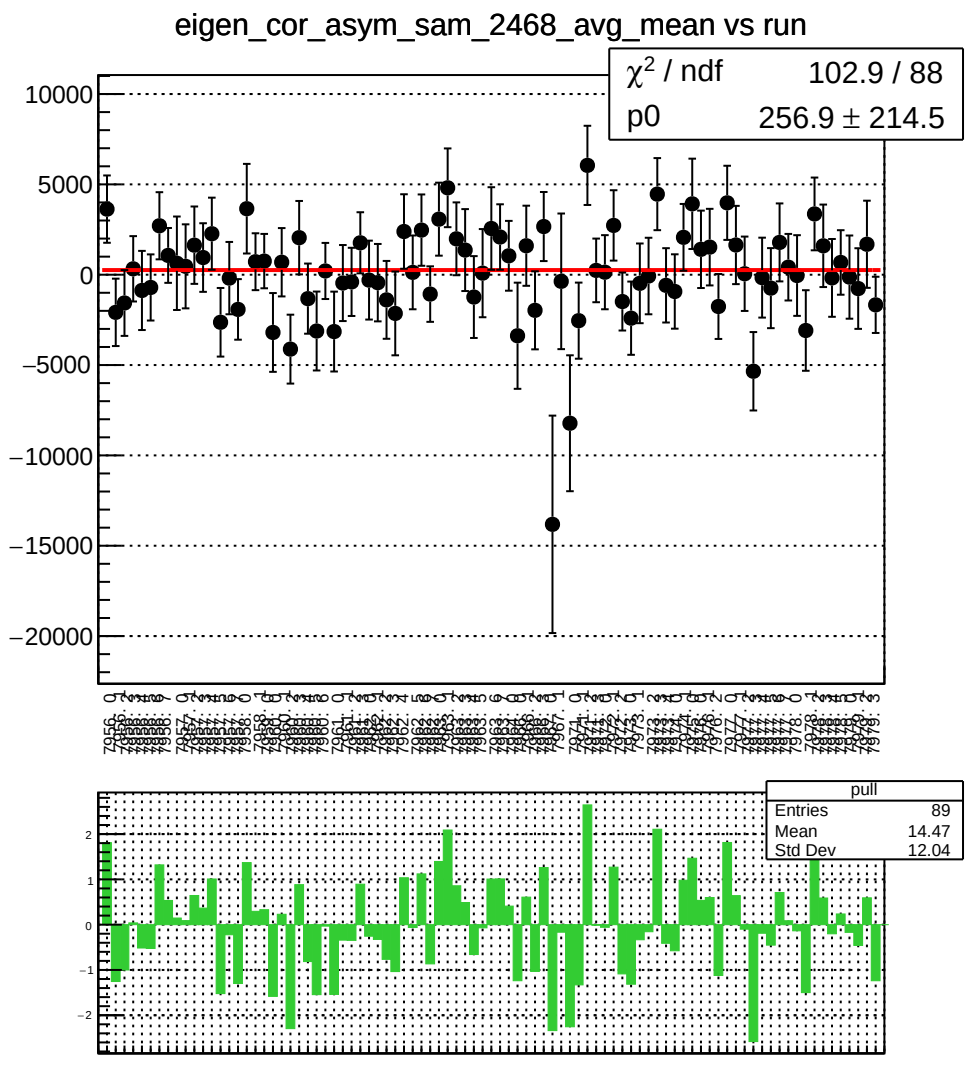

pull1D
Entries 89
Mean −0.02557
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

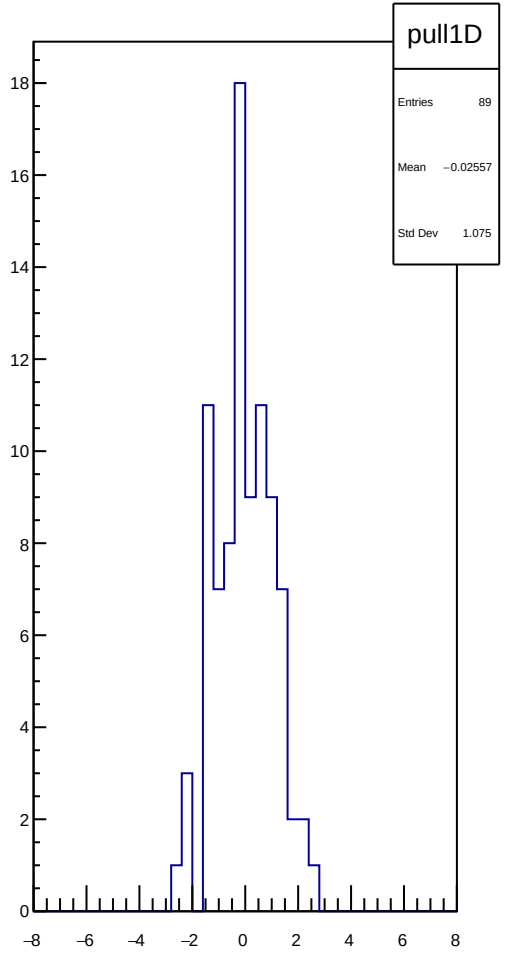

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.791e+04 / 88
p0 201.4 ± 0.1517
600
550
500
450
400
350
300
250
200
150

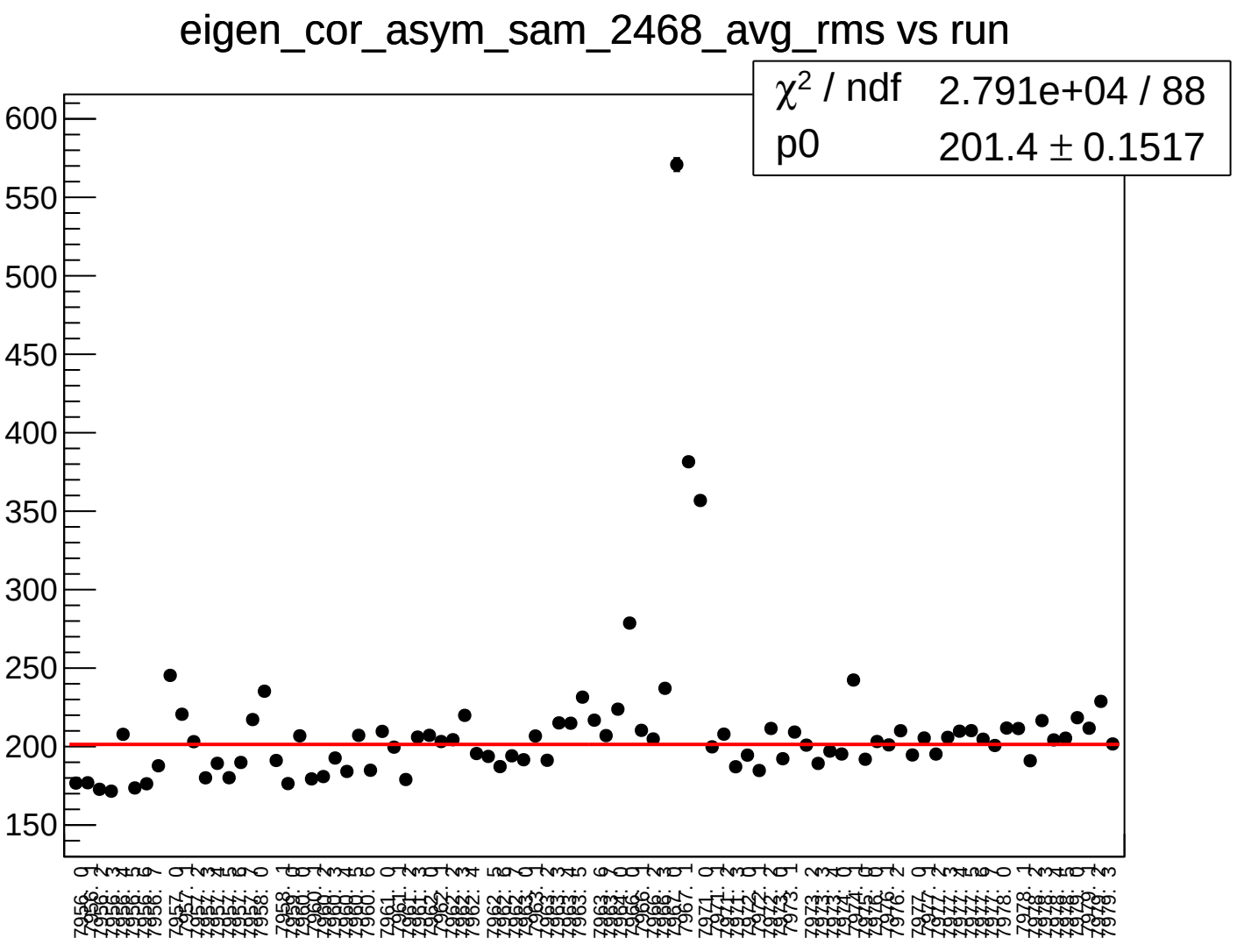

asym_sam_2468_avg_cor_correction_mean vs run
×10^3
150
100
50
0
−50
χ² / ndf 111.9 / 88
p0 1022 ± 2572
pull
Entries 89
Mean −5623
Std Dev 0
4
3
2
1
0
−1
−2

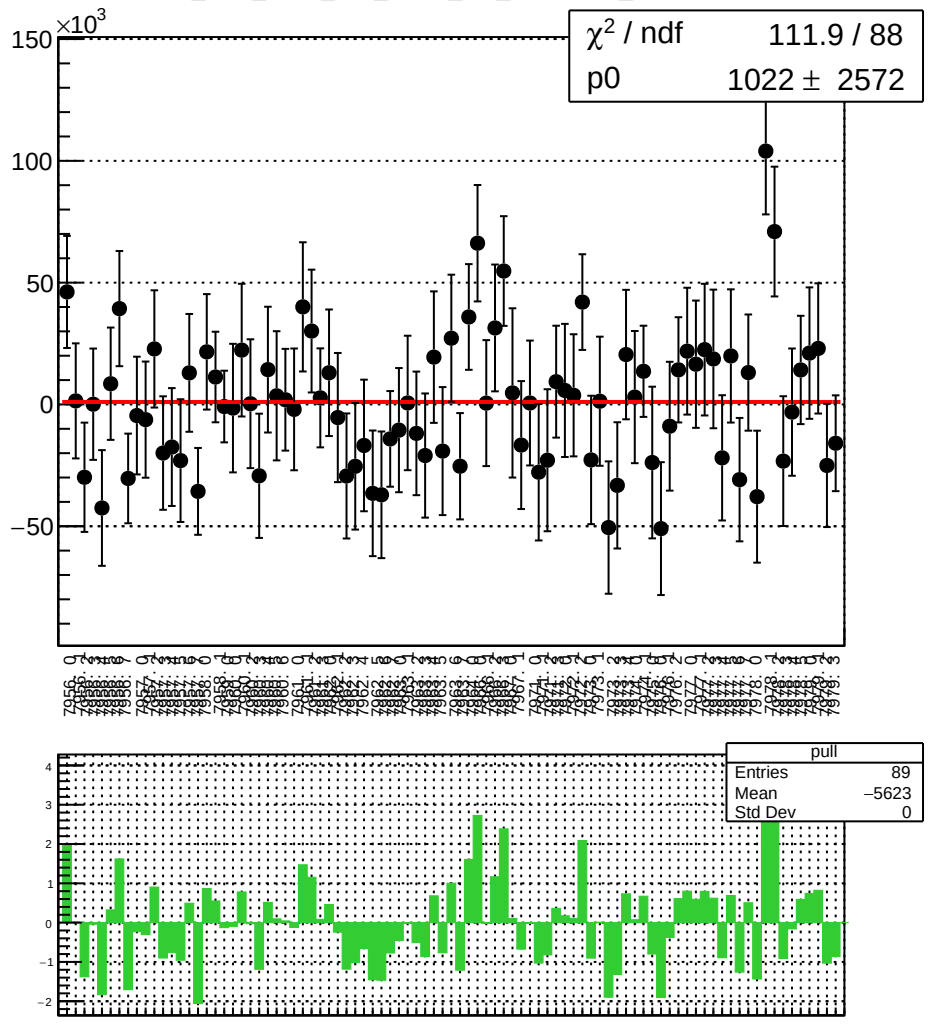

pull1D
Entries 89
Mean −0.0005674
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

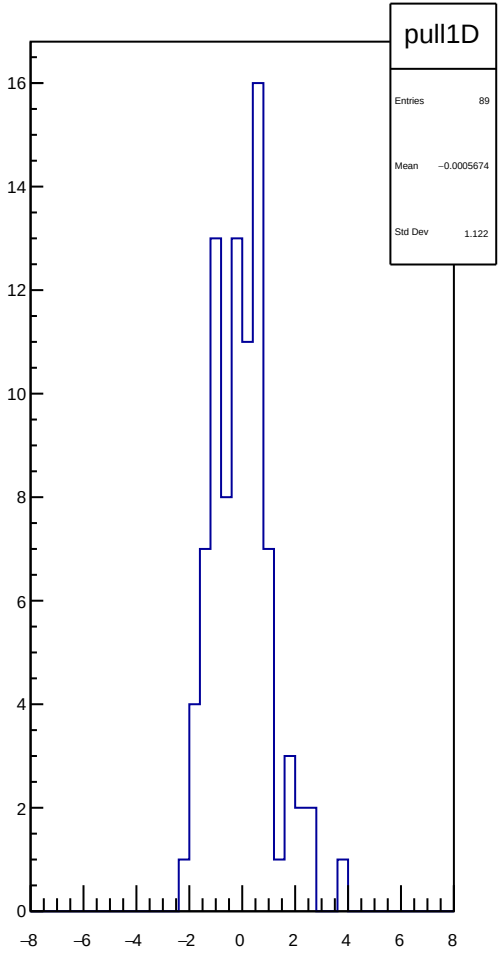

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.13e+04 / 88
p0 2426 ± 1.818
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

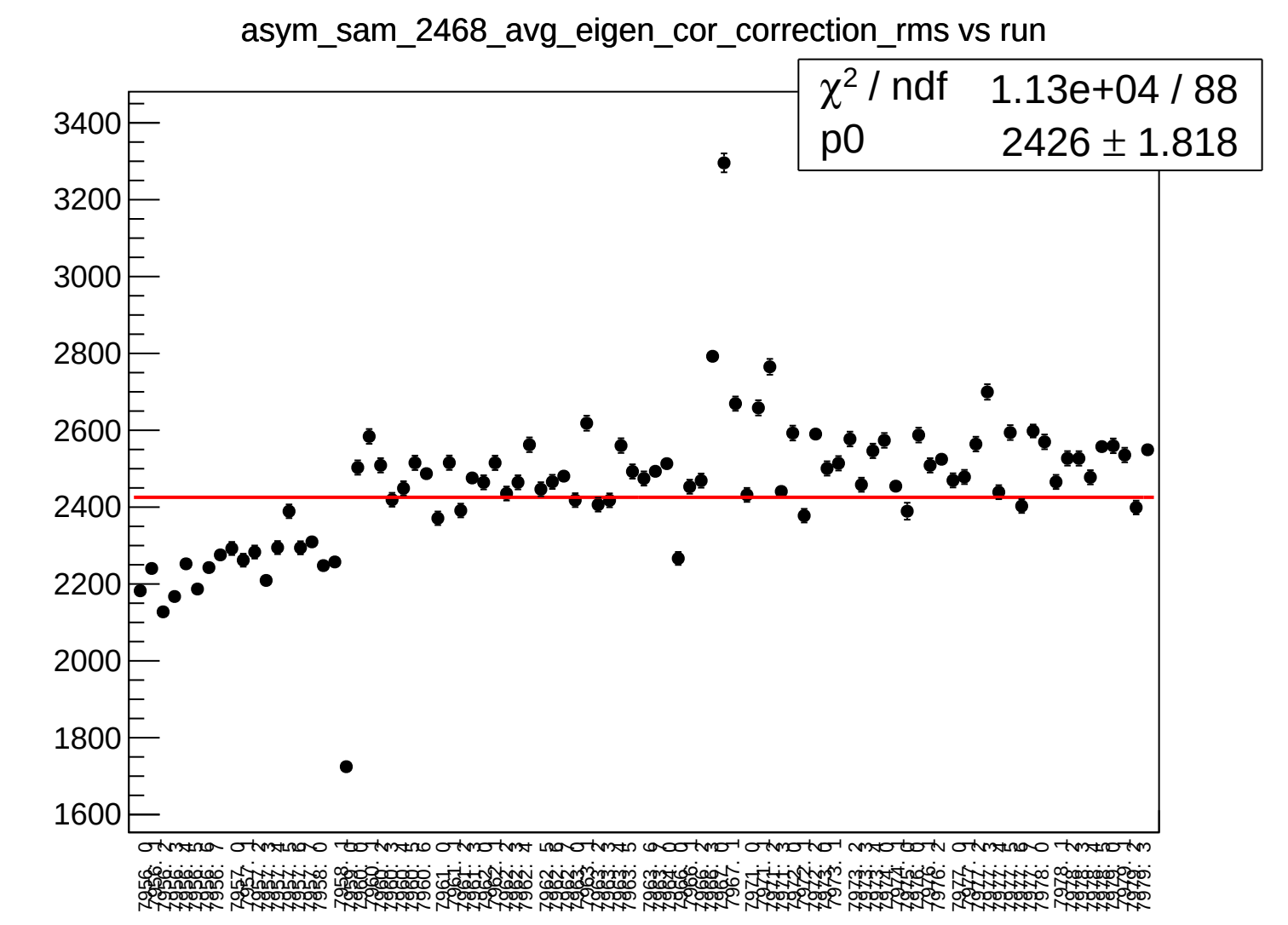

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 102.9 / 88
p0 256.9 ± 214.5
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 14.47
Std Dev 12.04
2
1
0
−1
−2

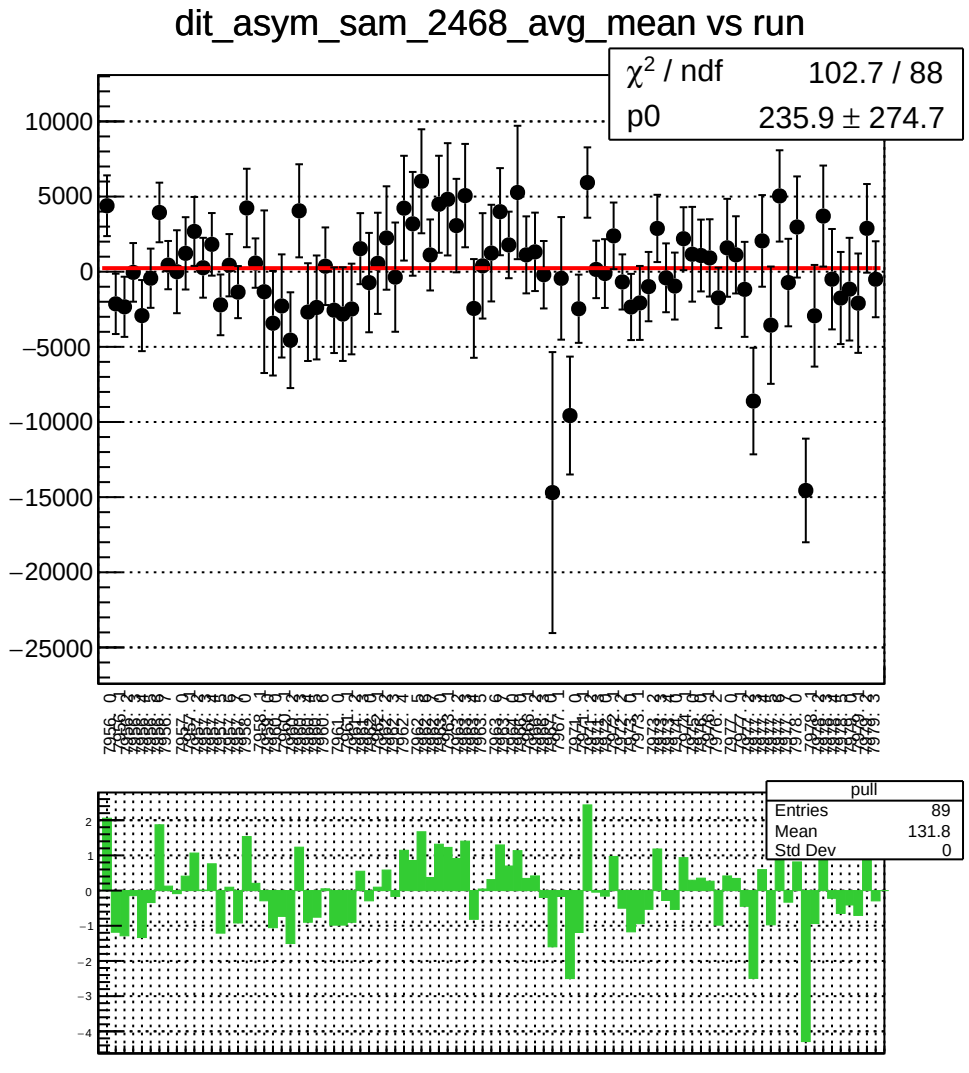

pull1D
Entries 89
Mean −0.02557
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

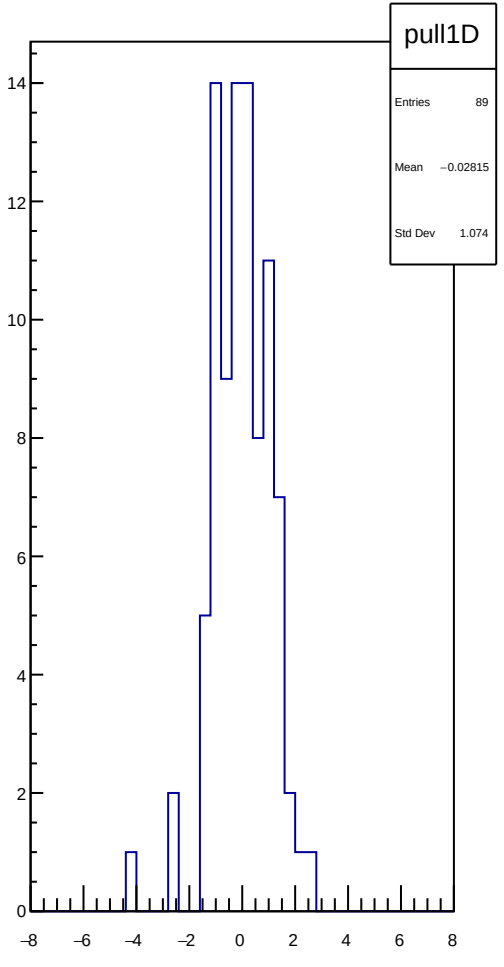

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.791e+04 / 88
p0 201.4 ± 0.1517
600
550
500
450
400
350
300
250
200
150

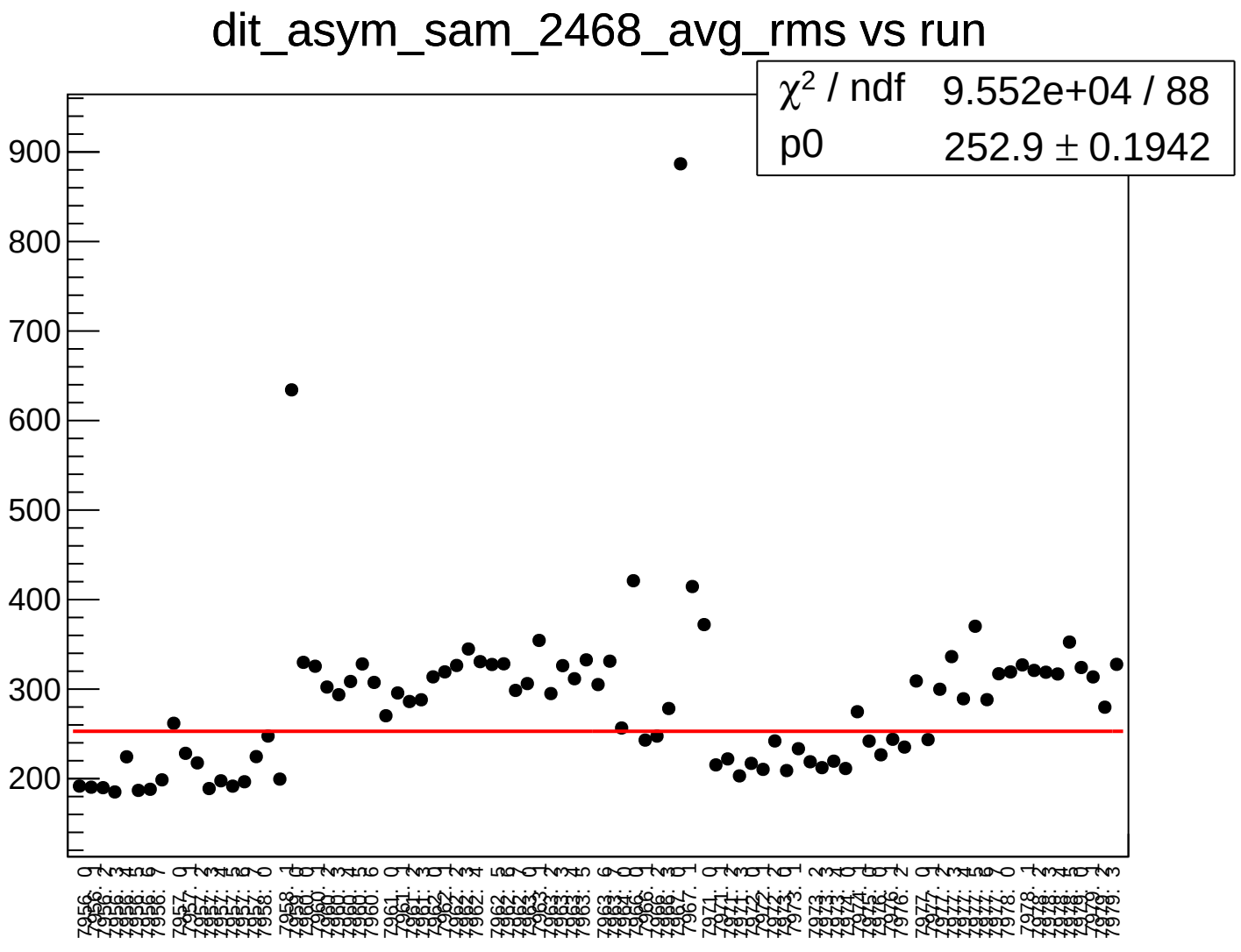

asym_sam_2468_avg_eigen_cor_correction_mean vs run
×10^3
150
100
50
0
−50
χ² / ndf 111.9 / 88
p0 1022 ± 2572
pull
Entries 89
Mean −5623
Std Dev 0
4
3
2
1
0
−1
−2

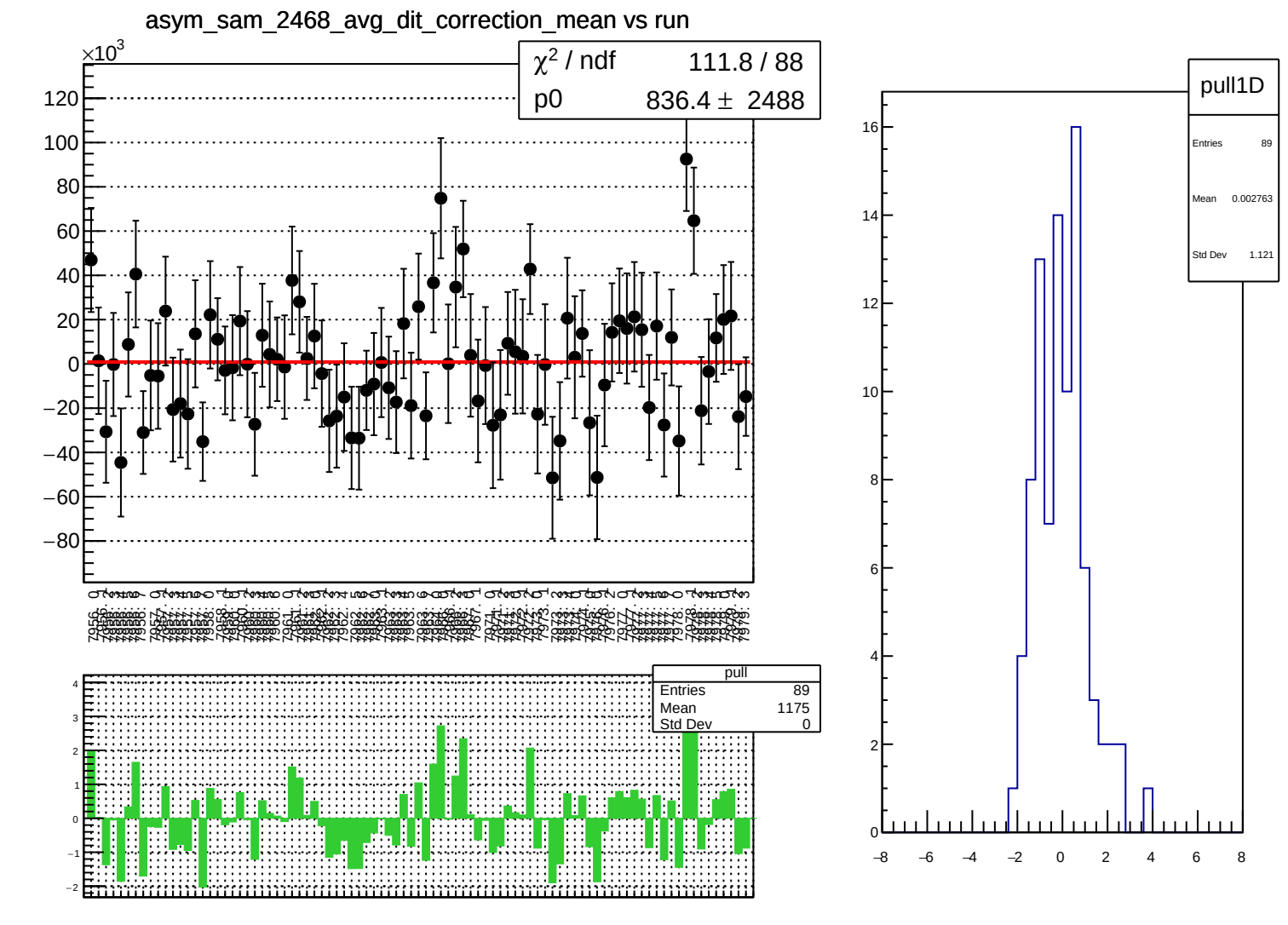

pull1D
Entries 89
Mean −0.0005674
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

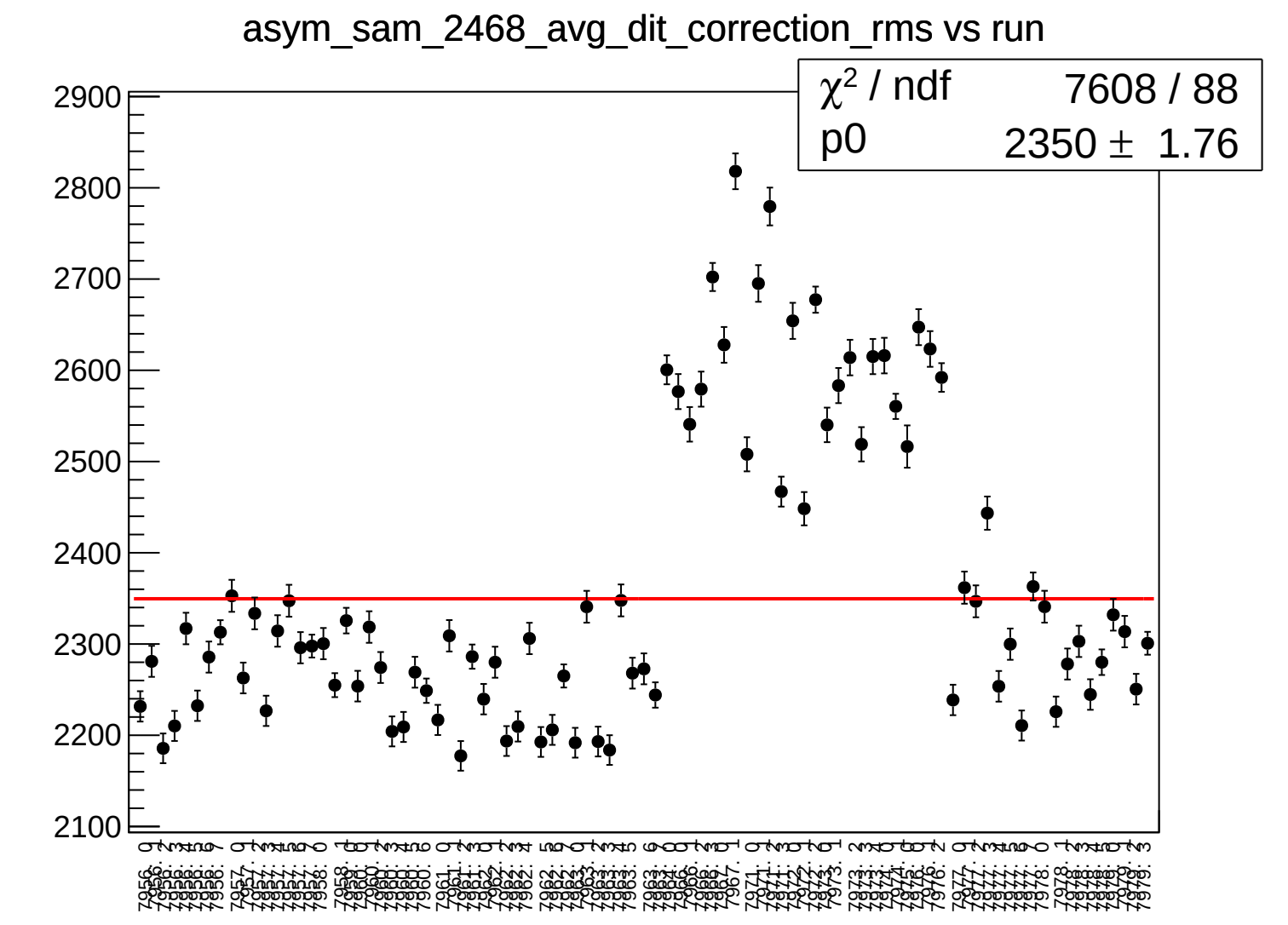

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.13e+04 / 88
p0 2426 ± 1.818
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

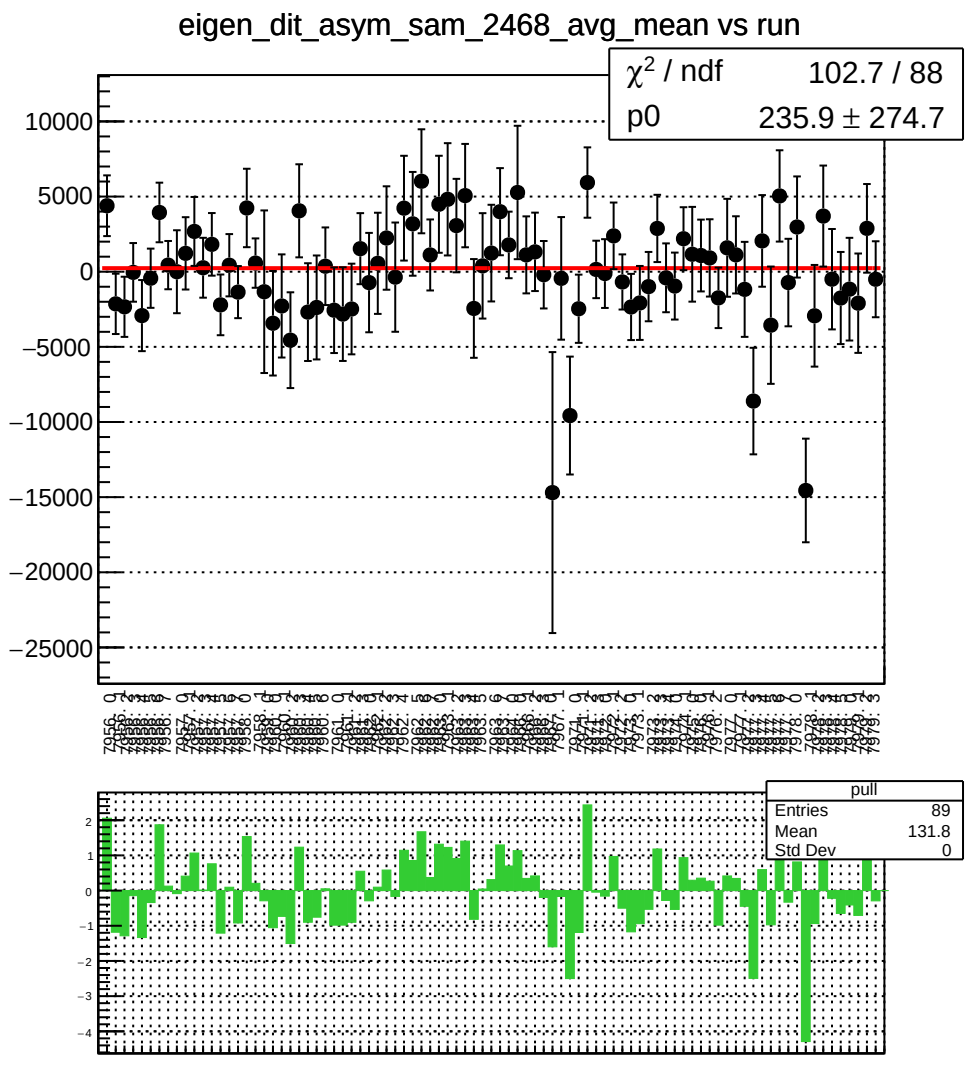

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 102.7 / 88
p0 235.9 ± 274.7
pull
Entries 89
Mean 131.8
Std Dev 0

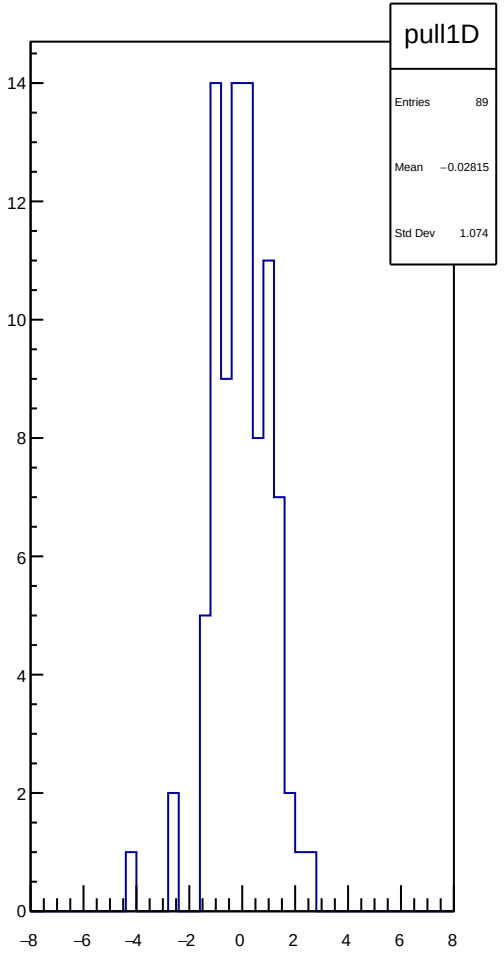

pull1D
Entries 89
Mean −0.02815
Std Dev 1.074

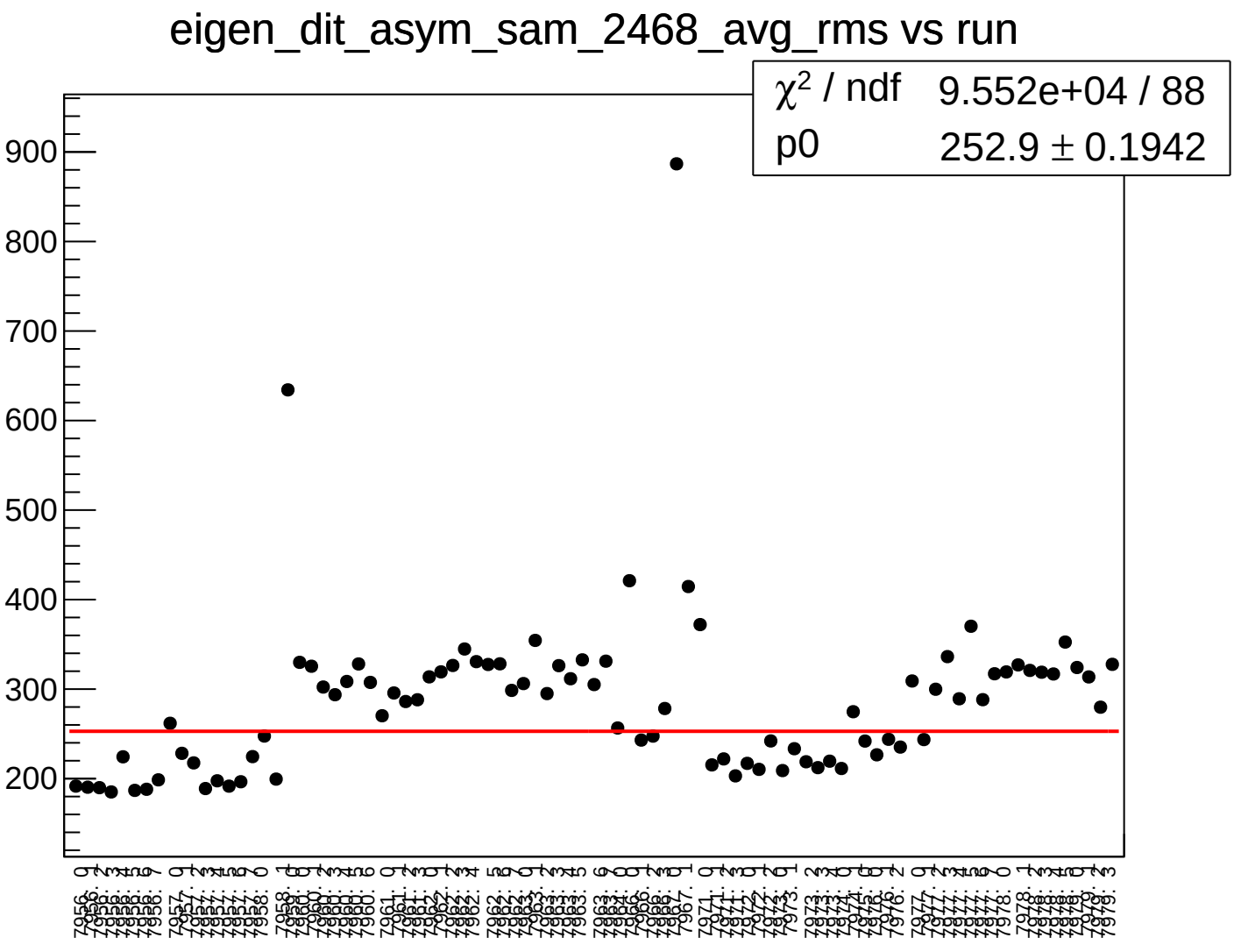

dit_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 9.552e+04 / 88
p0 252.9 ± 0.1942
900
800
700
600
500
400
300
200

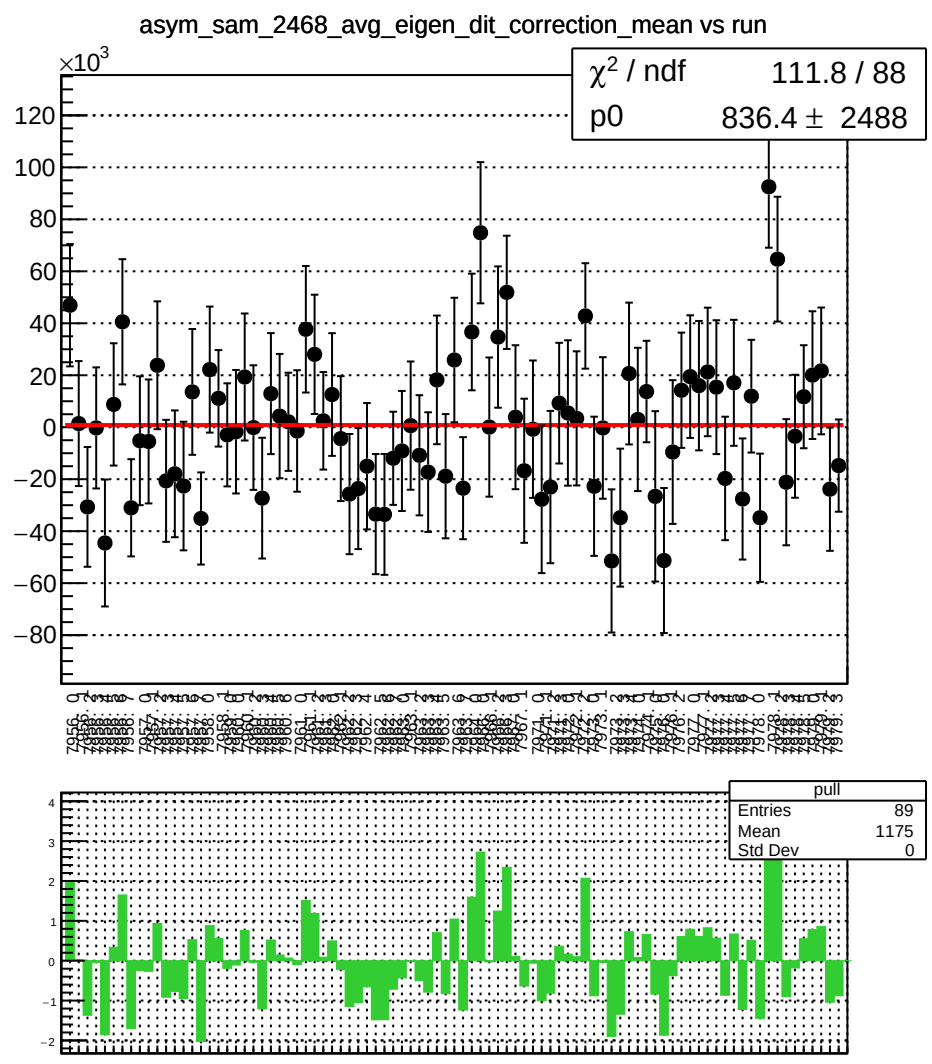

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 111.8 / 88
p0 836.4 ± 2488
pull
Entries 89
Mean 1175
Std Dev 0
pull1D
Entries 89
Mean 0.002763
Std Dev 1.121

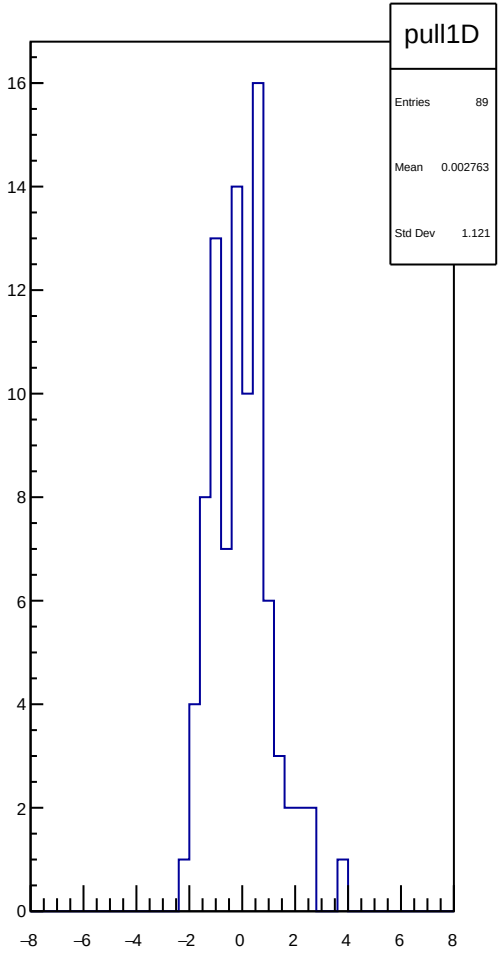

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 7608 / 88
p0 2350 ± 1.76
2900
2800
2700
2600
2500
2400
2300
2200
2100

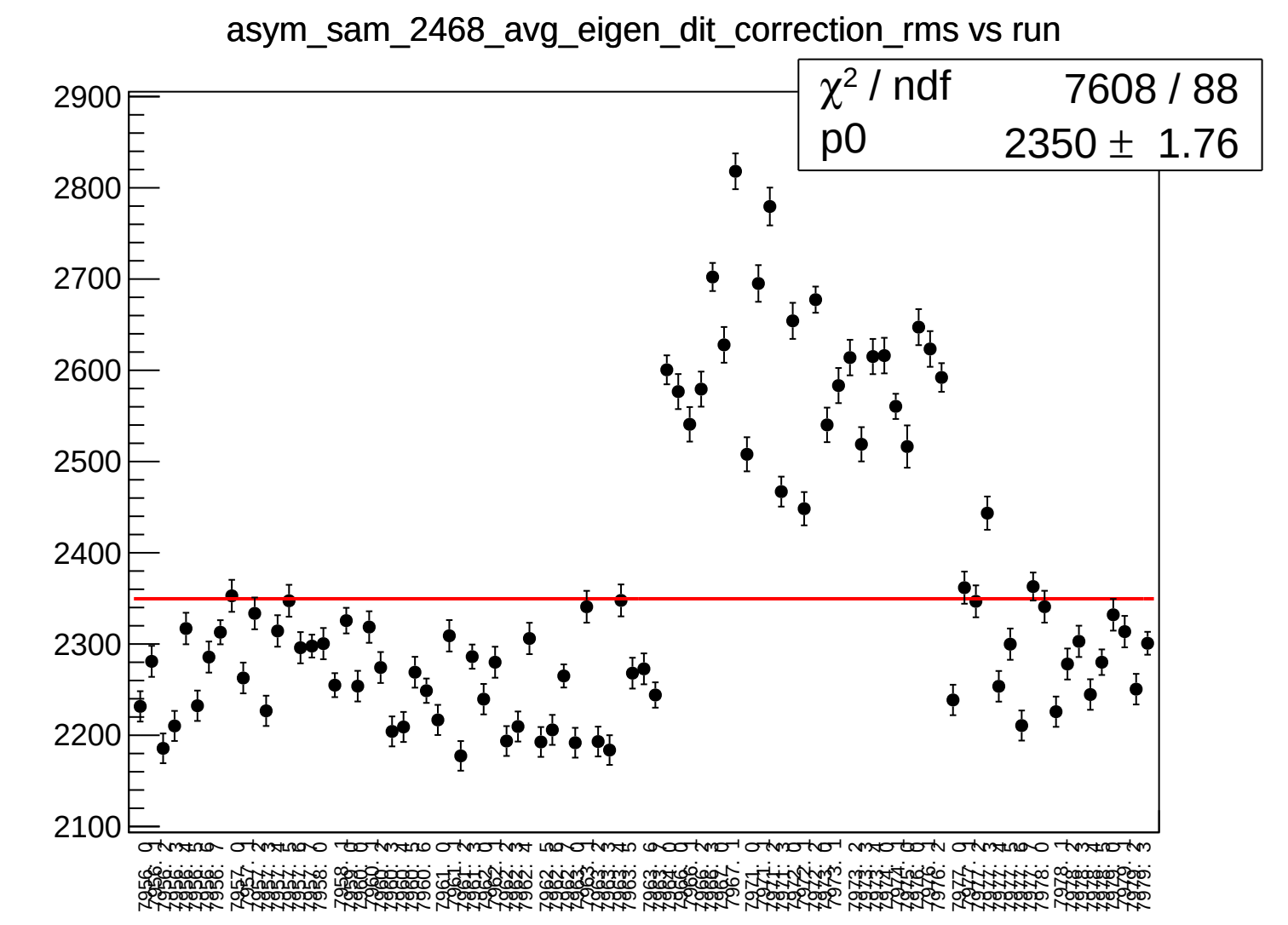

eigen_dit_asym_sam_2468_avg_mean vs run
$\chi^2$ / ndf 102.7 / 88
p0 235.9 ± 274.7
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 89
Mean 131.8
Std Dev 0
2
1
0
−1
−2
−3
−4

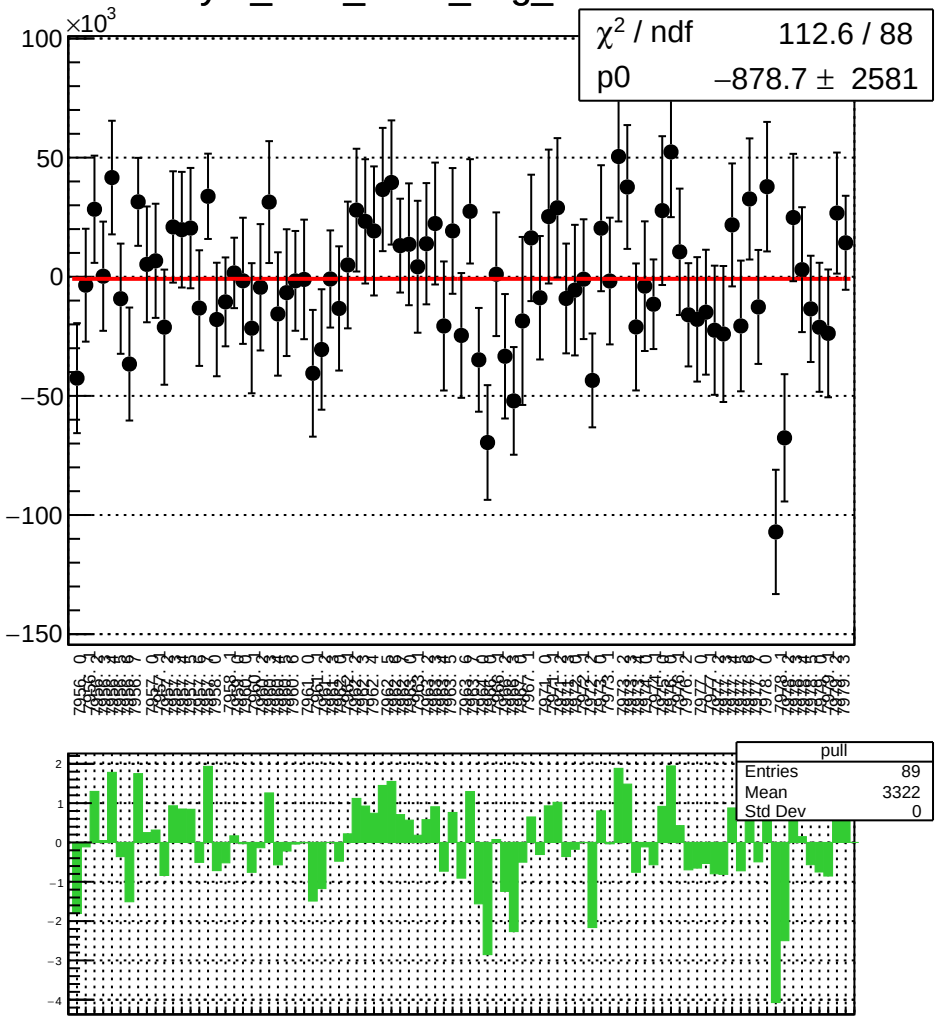

pull1D
Entries 89
Mean −0.02815
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

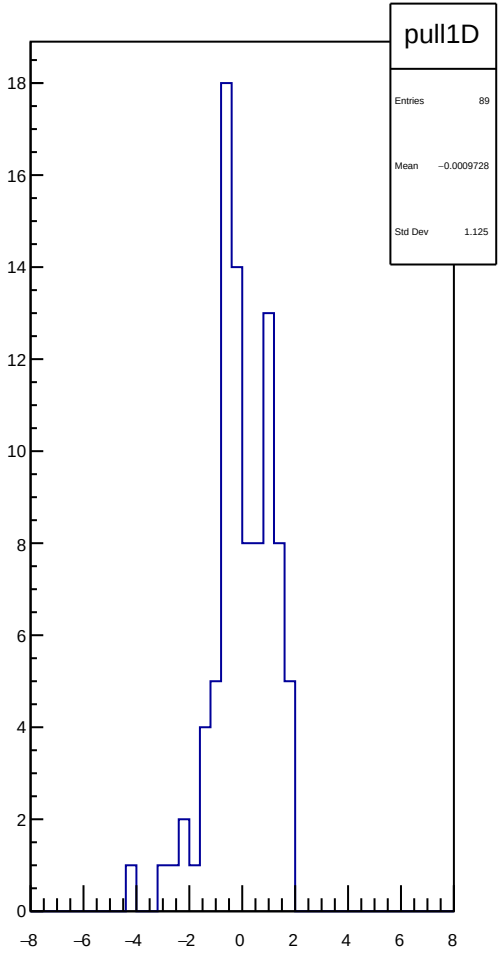

eigen_dit_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 9.552e+04 / 88
p0 252.9 ± 0.1942
900
800
700
600
500
400
300
200

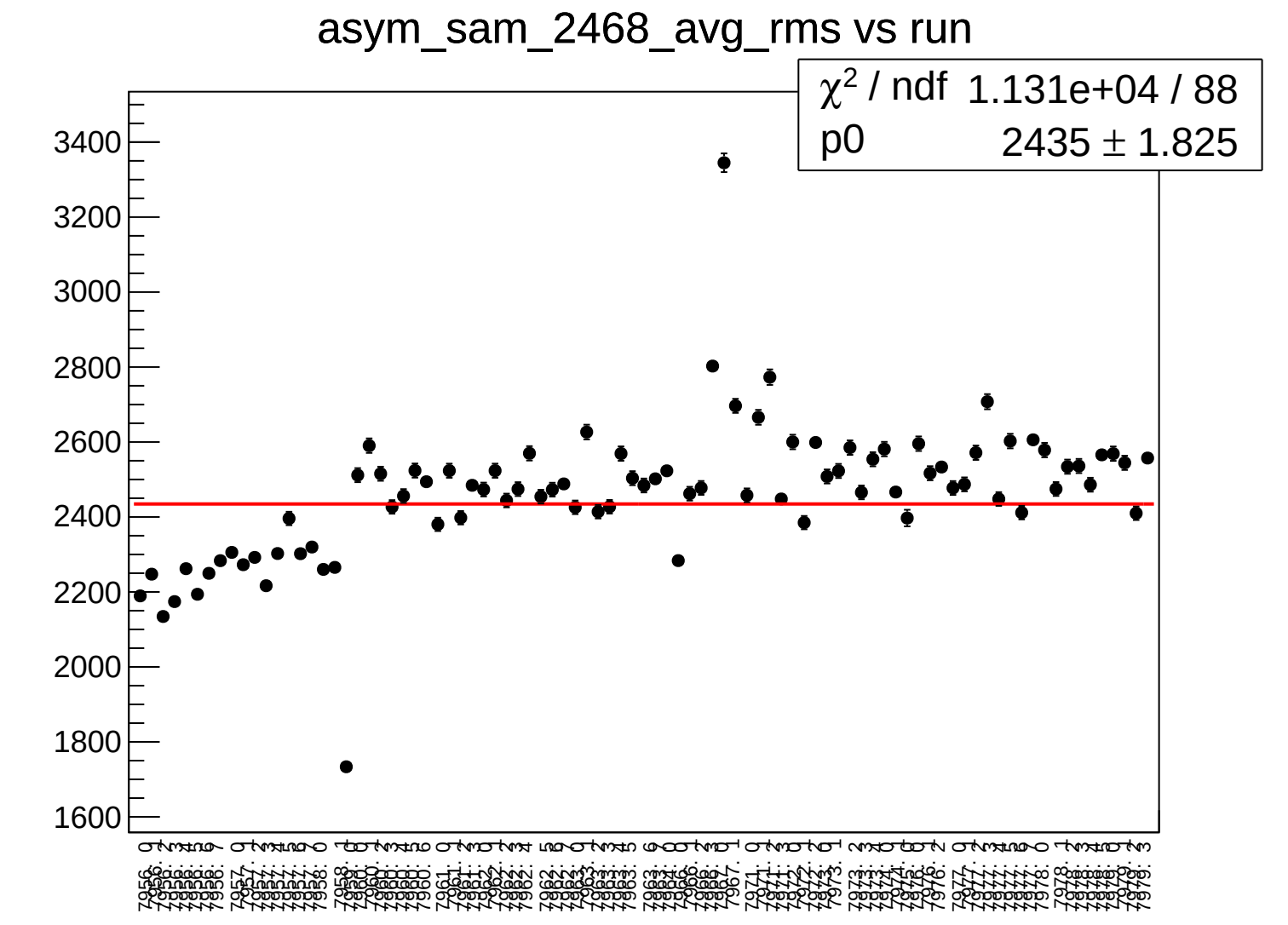

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 111.8 / 88
p0 836.4 ± 2488
×10³
pull
Entries 89
Mean 1175
Std Dev 0

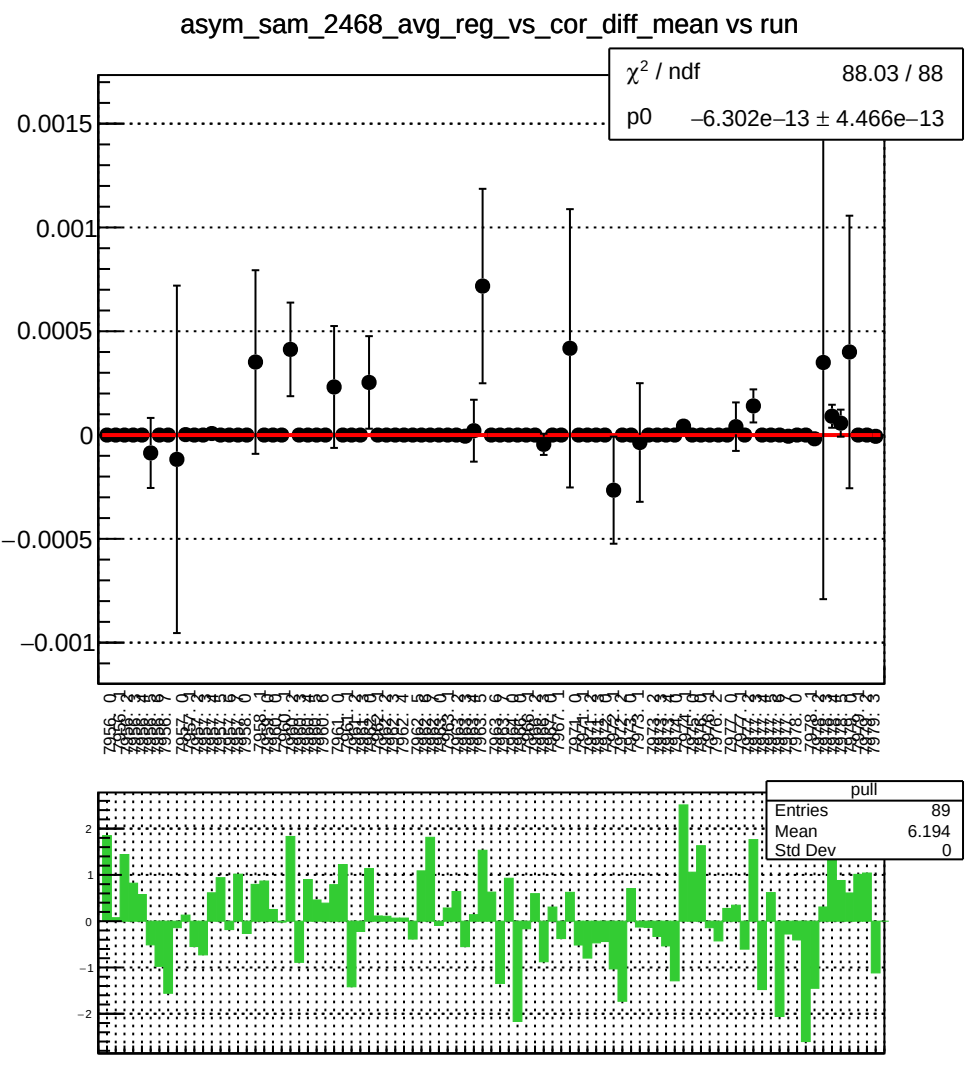

pull1D
Entries 89
Mean 0.002763
Std Dev 1.121

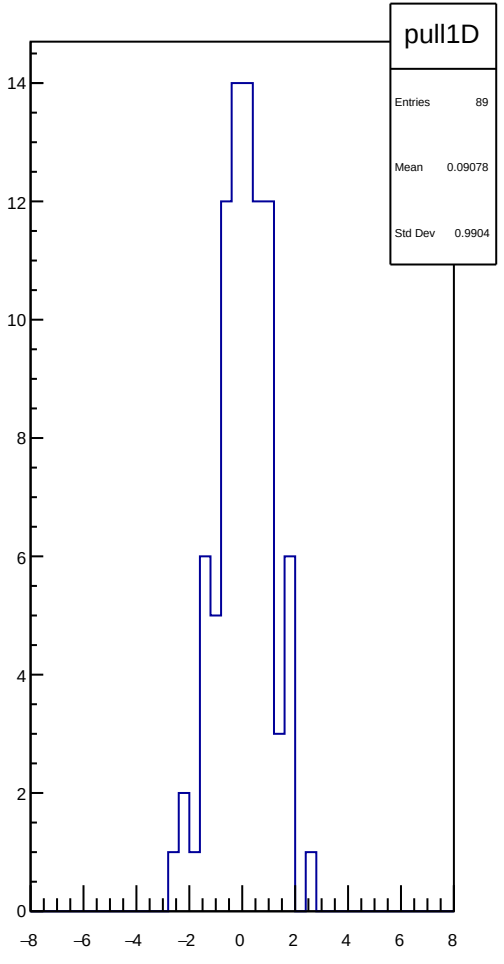

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 7608 / 88
p0 2350 ± 1.76
2900
2800
2700
2600
2500
2400
2300
2200
2100

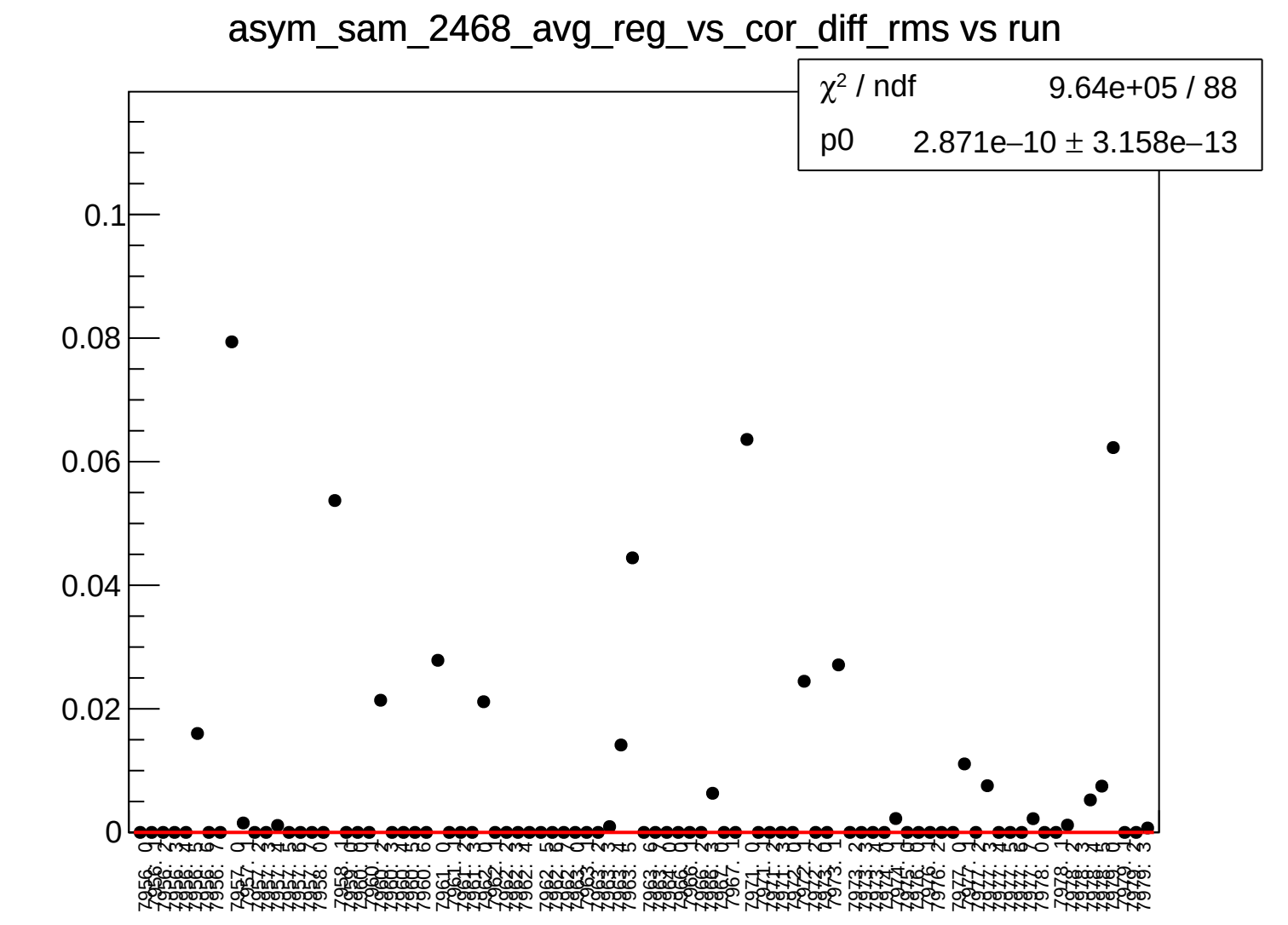

asym_sam_2468_avg_mean vs run
χ² / ndf 112.6 / 88
p0 −878.7 ± 2581
×10³
pull
Entries 89
Mean 3322
Std Dev 0

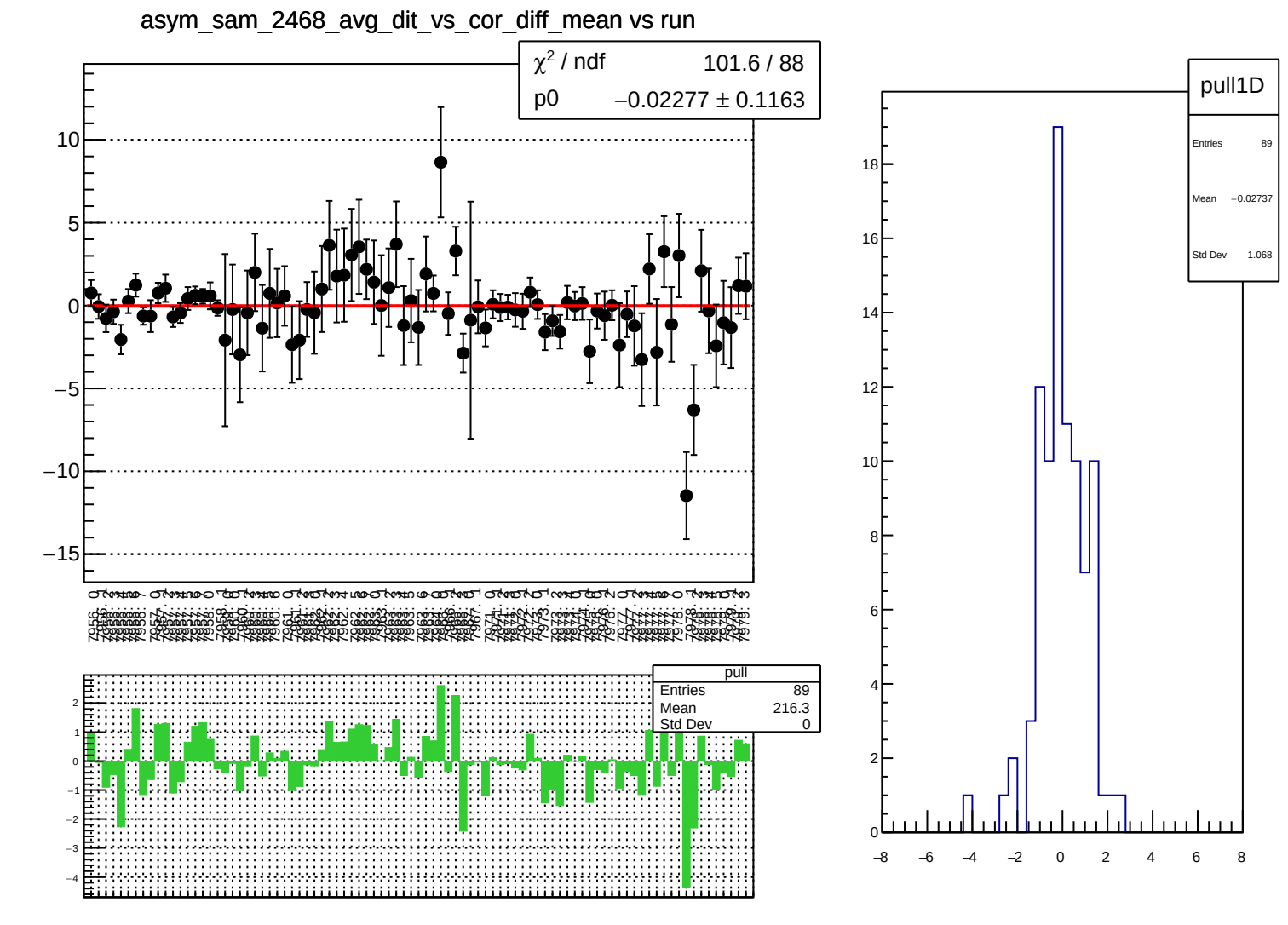

pull1D
Entries 89
Mean −0.0009728
Std Dev 1.125

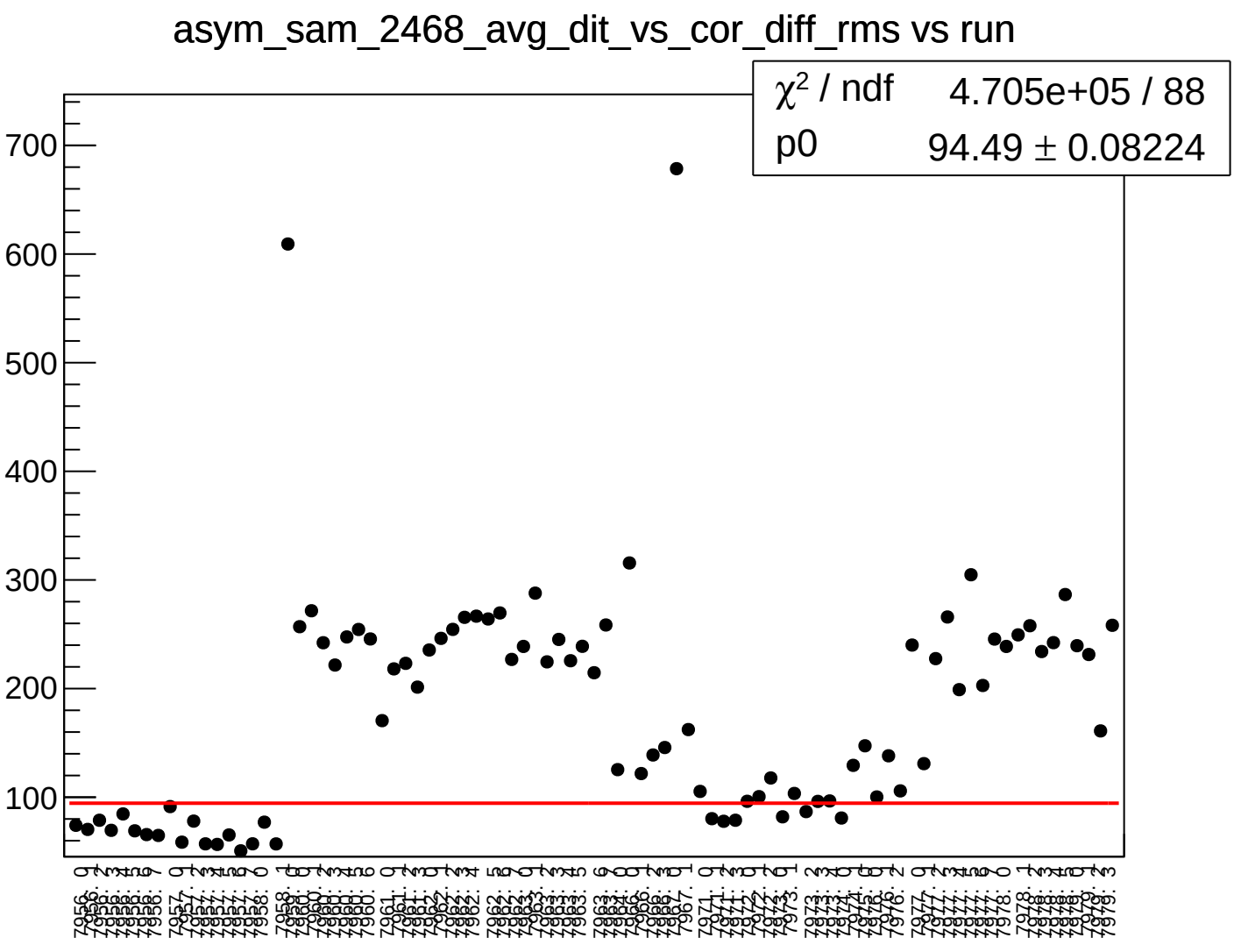

asym_sam_2468_avg_rms vs run
χ² / ndf 1.131e+04 / 88
p0 2435 ± 1.825
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

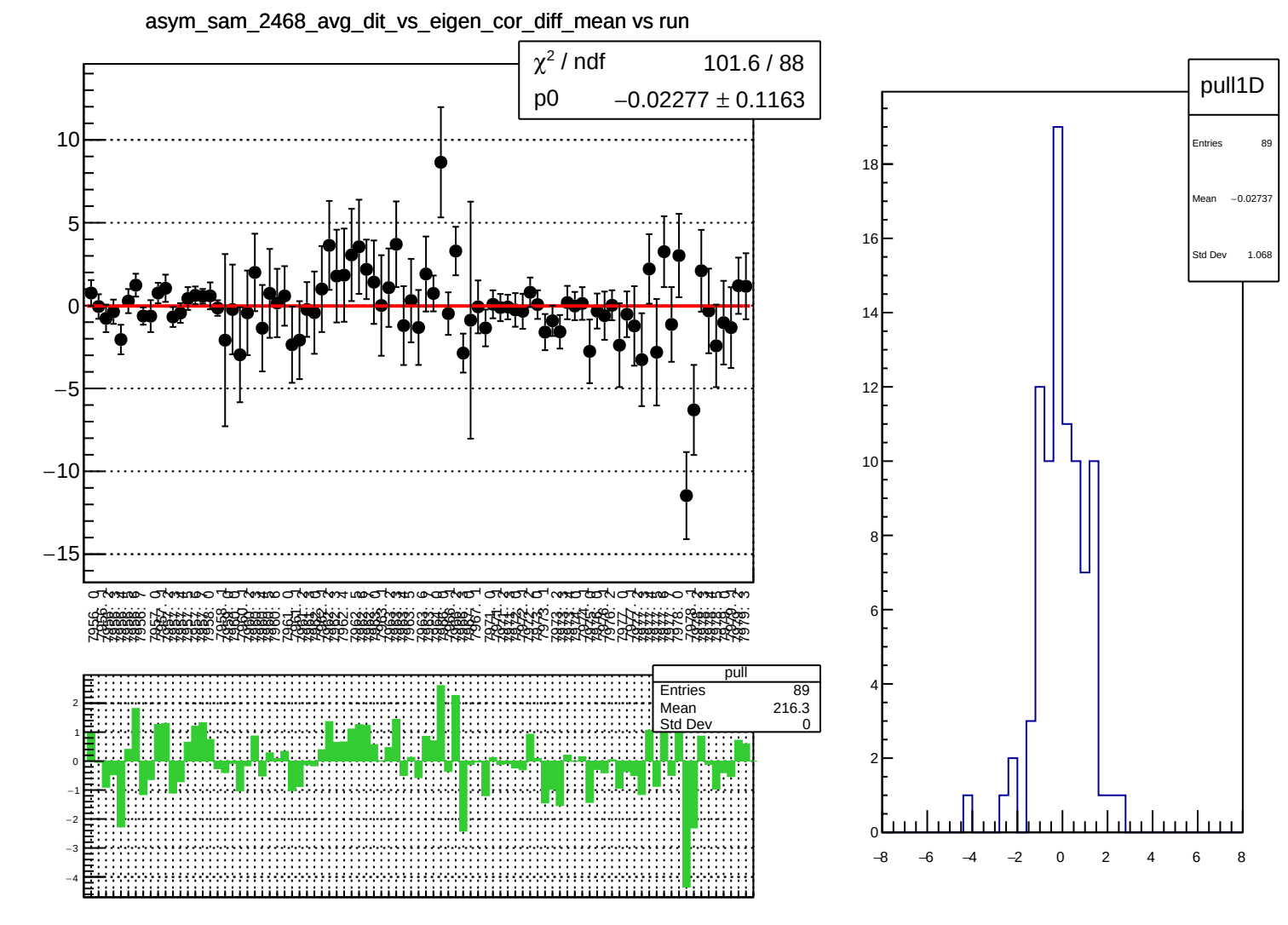

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.03 / 88
p0 −6.302e−13 ± 4.466e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 6.194
Std Dev 0
2
1
0
−1
−2

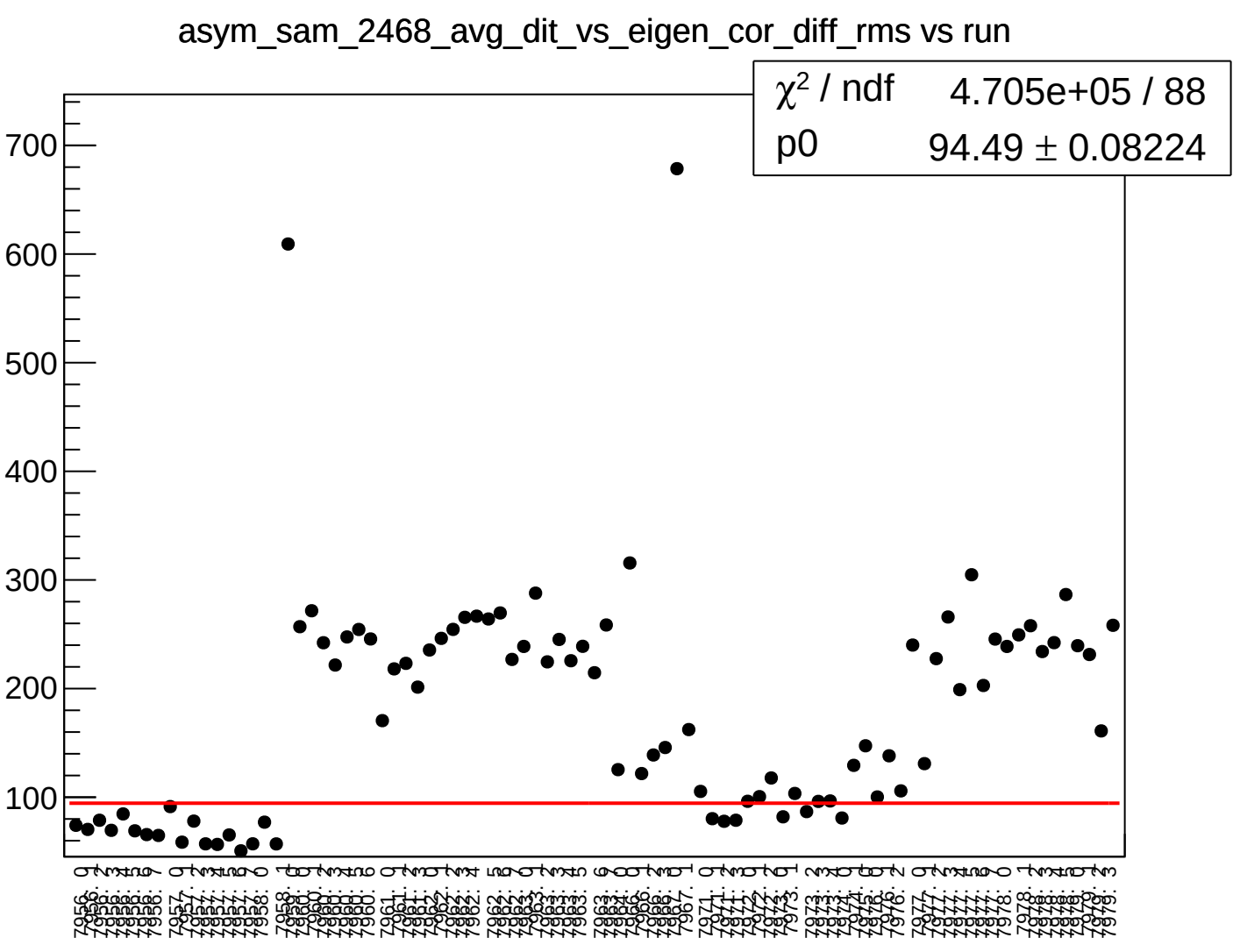

pull1D
Entries 89
Mean 0.09078
Std Dev 0.9904
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

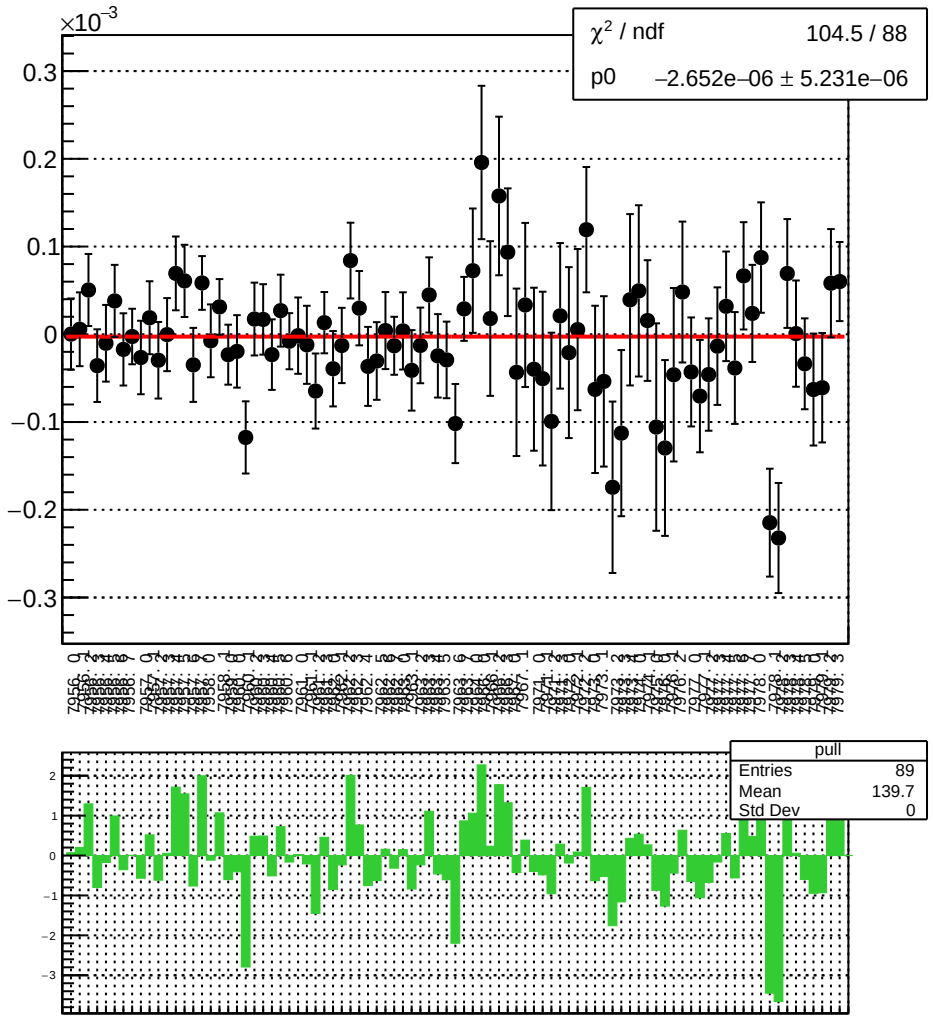

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.64e+05 / 88
p0 2.871e−10 ± 3.158e−13
0.1
0.08
0.06
0.04
0.02
0

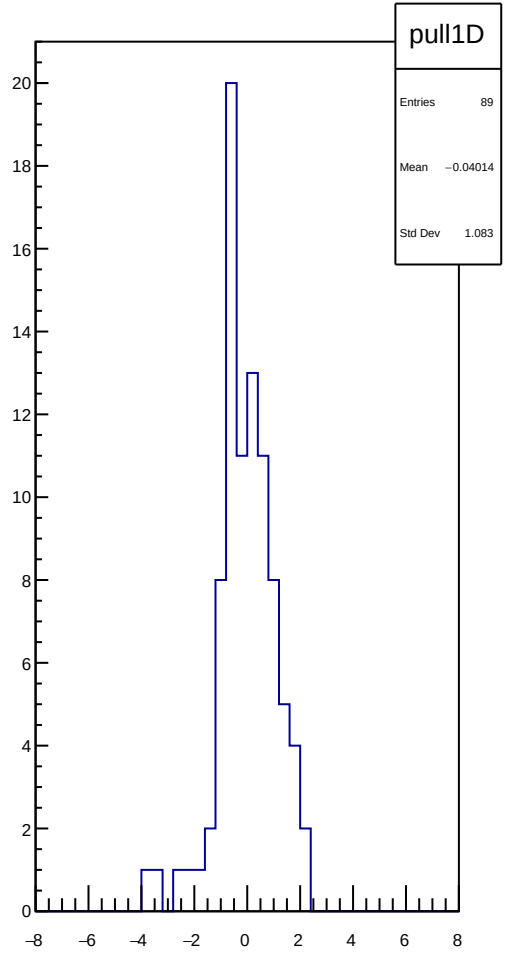

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 88
p0 −0.02277 ± 0.1163
pull
Entries 89
Mean 216.3
Std Dev 0
pull1D
Entries 89
Mean −0.02737
Std Dev 1.068

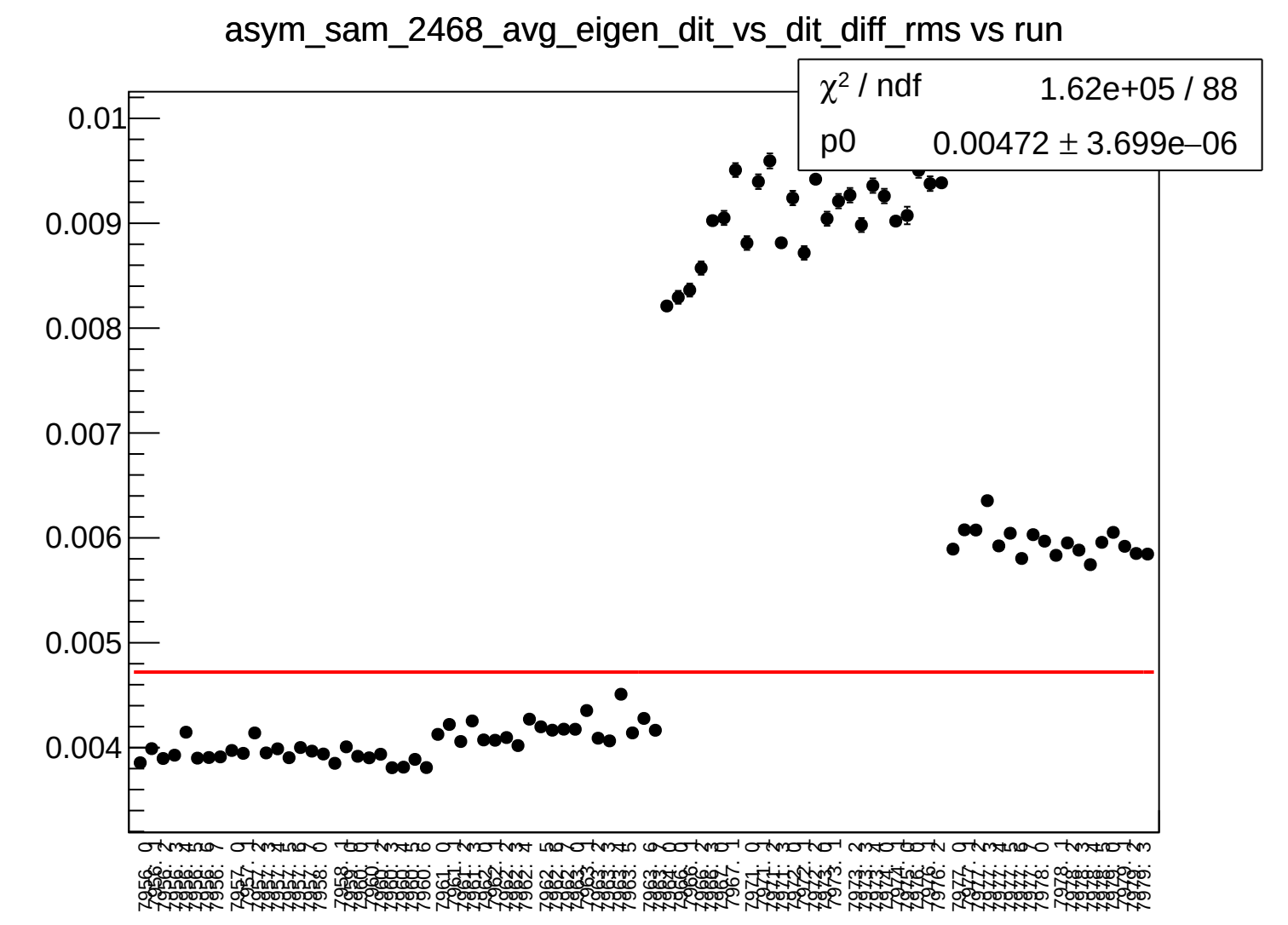

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.705e+05 / 88
p0 94.49 ± 0.08224
700
600
500
400
300
200
100

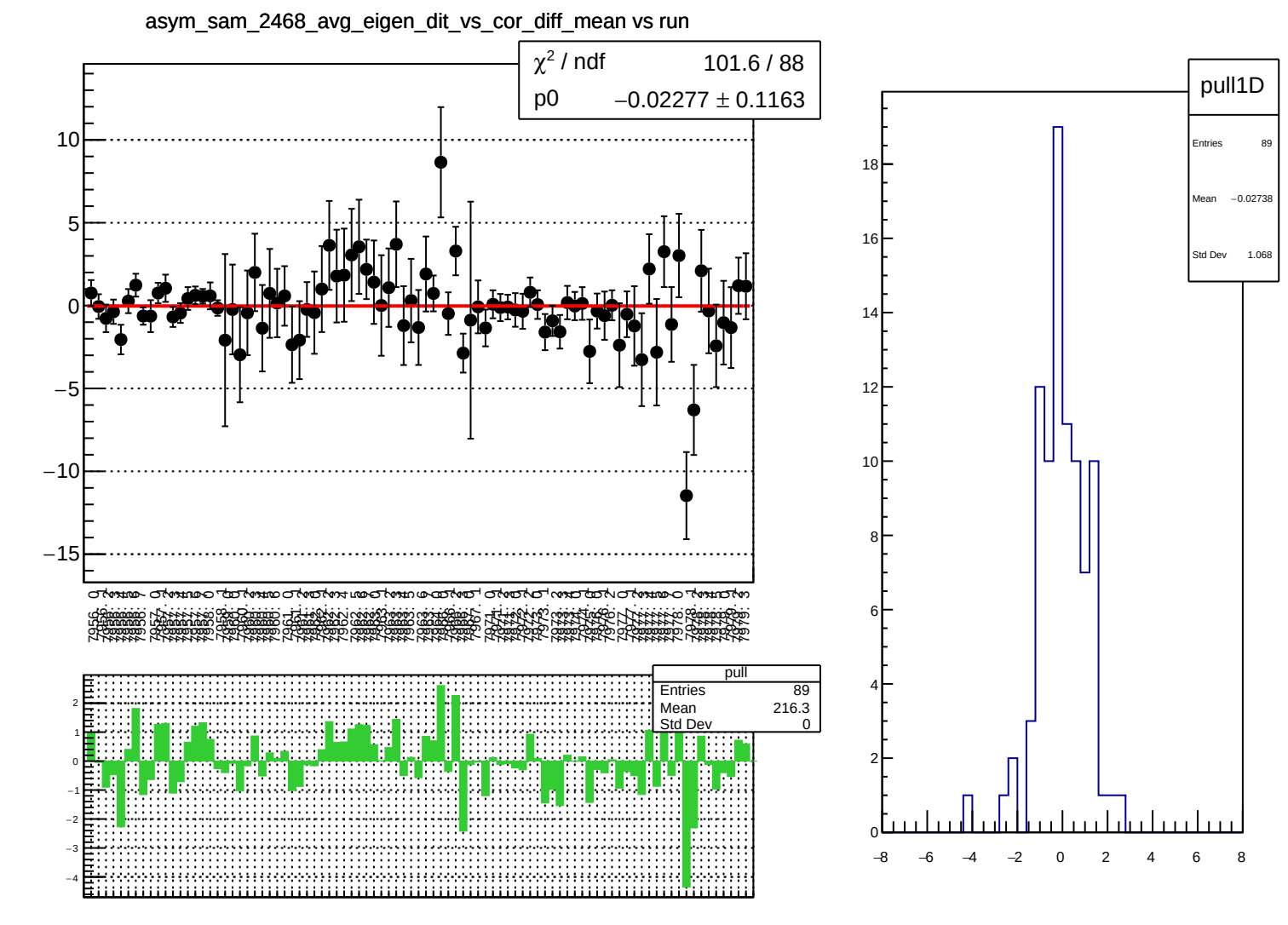

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.6 / 88
p0 −0.02277 ± 0.1163
pull
Entries 89
Mean 216.3
Std Dev 0
pull1D
Entries 89
Mean −0.02737
Std Dev 1.068

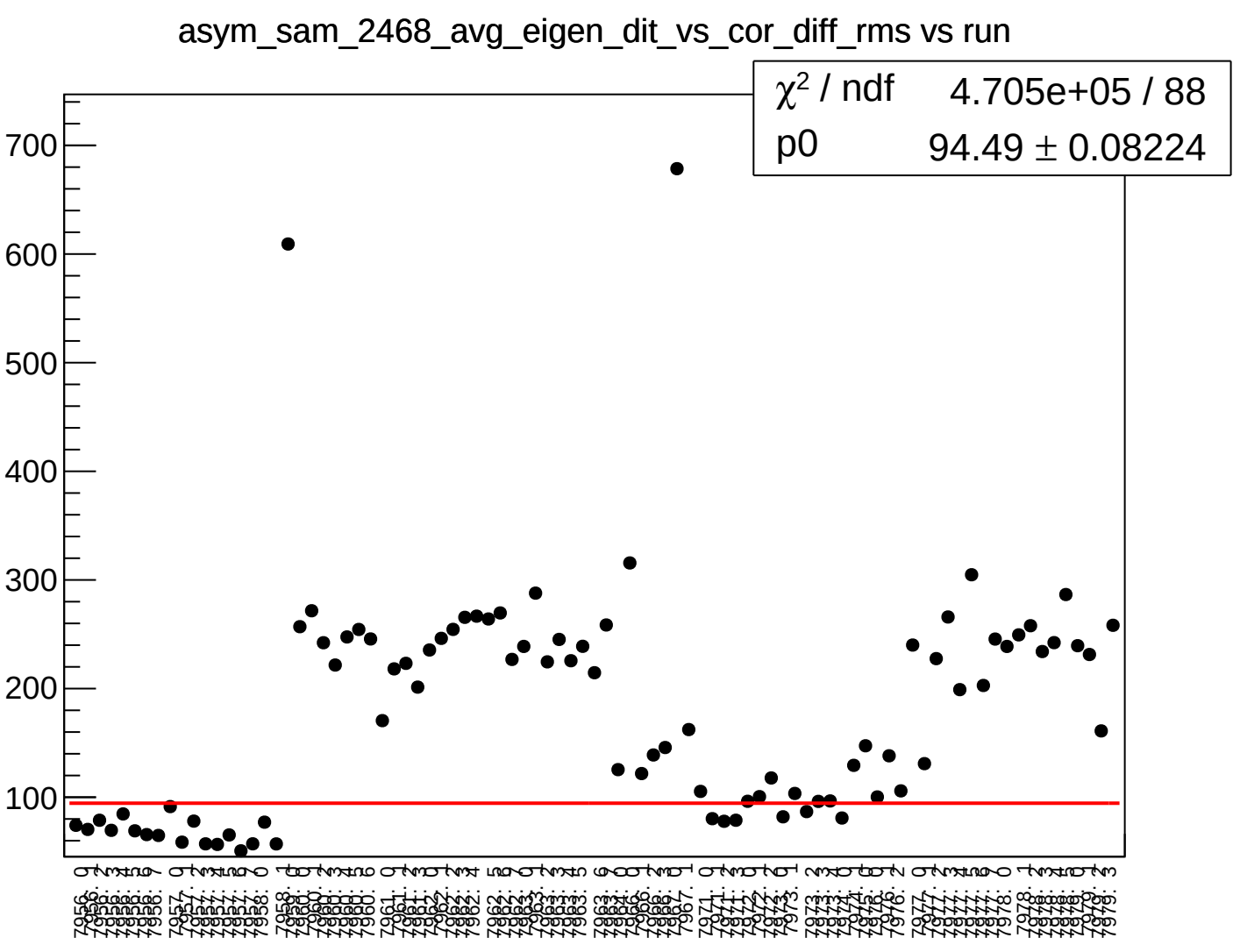

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.705e+05 / 88
p0 94.49 ± 0.08224
700
600
500
400
300
200
100

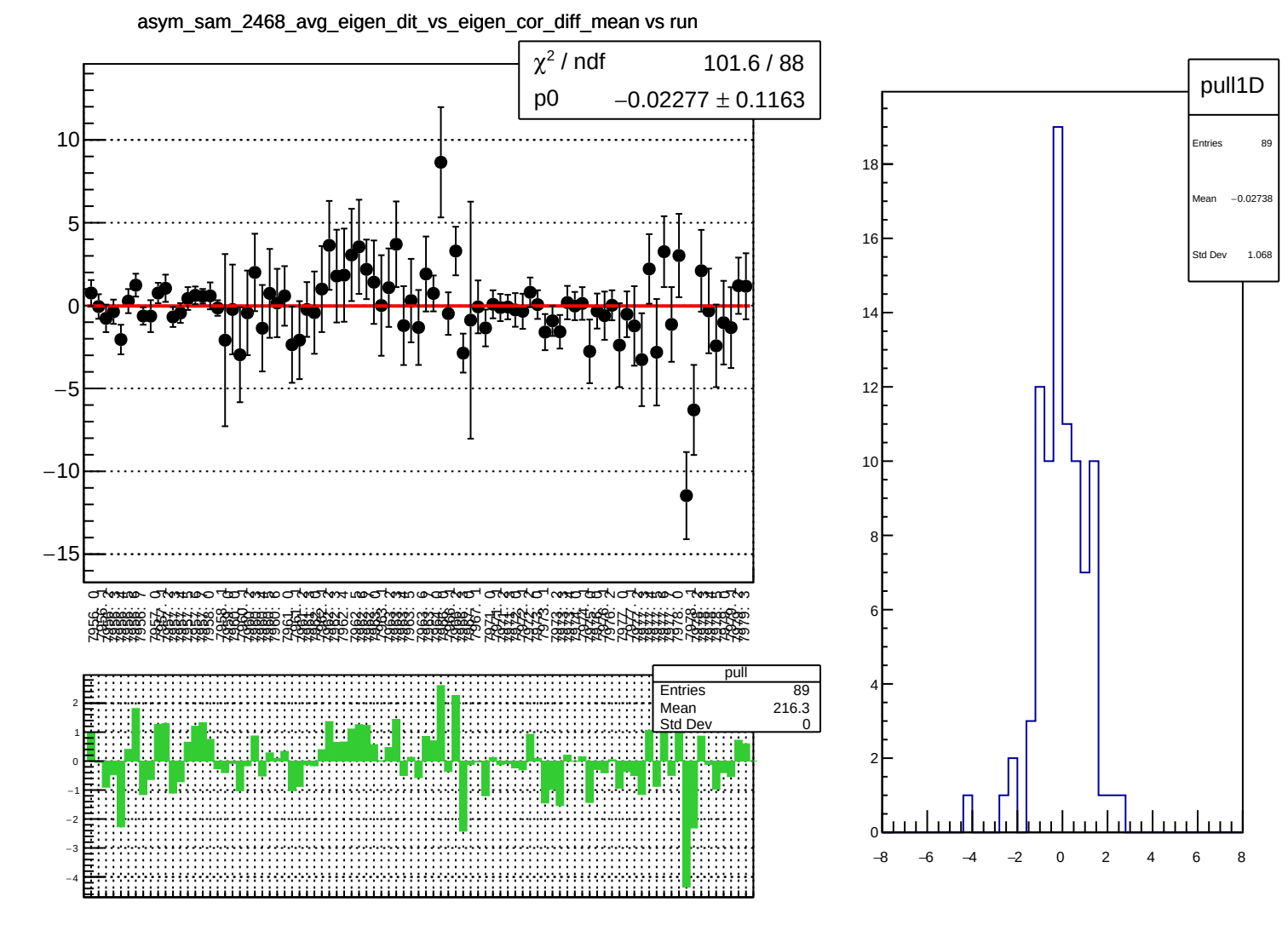

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 104.5 / 88
p0 −2.652e−06 ± 5.231e−06
pull
Entries 89
Mean 139.7
Std Dev 0

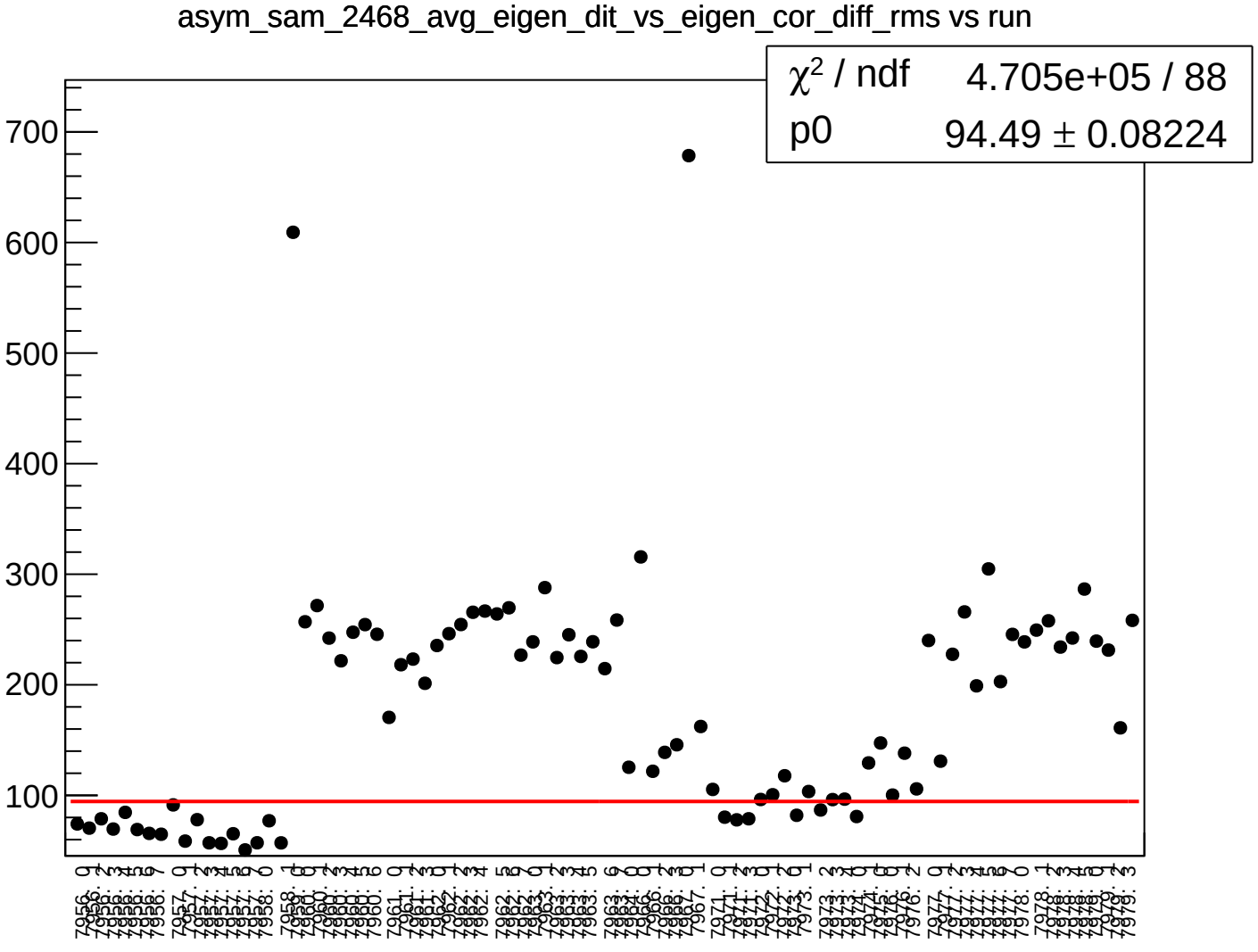

pull1D
Entries 89
Mean −0.04014
Std Dev 1.083

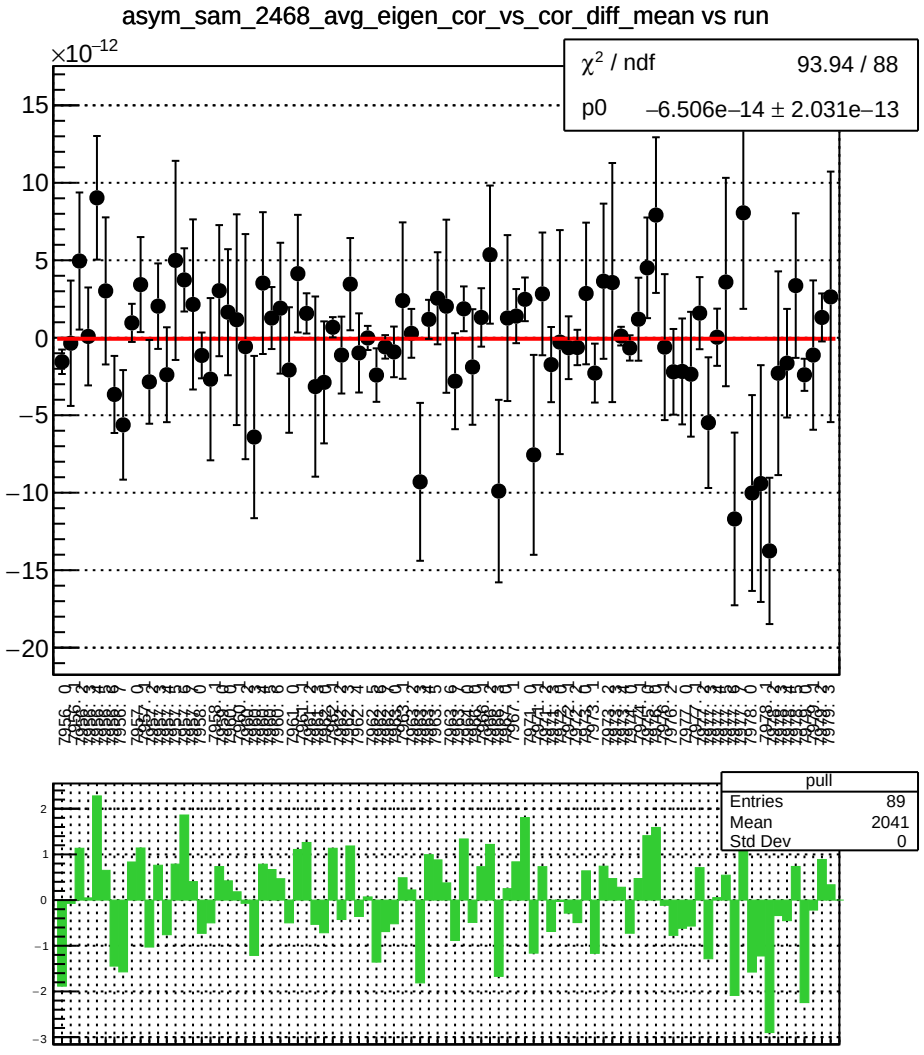

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.62e+05 / 88
p0 0.00472 ± 3.699e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

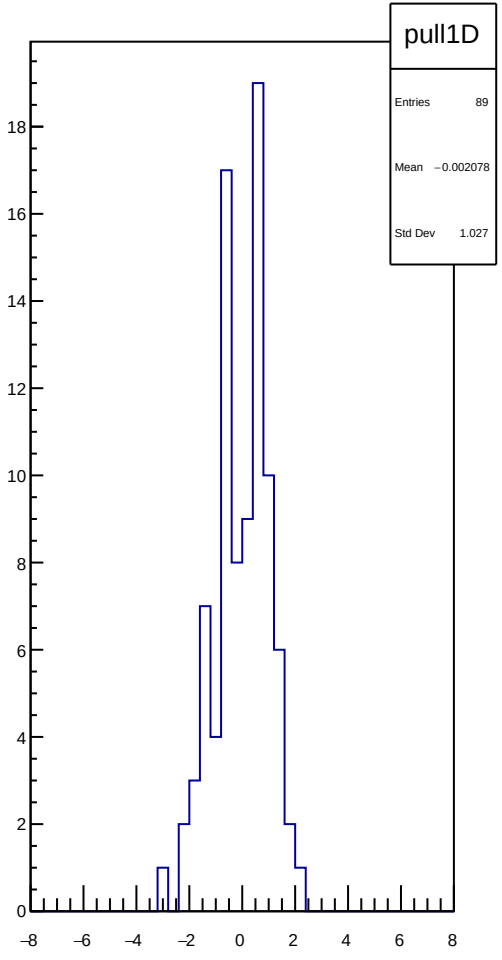

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 88
p0 −0.02277 ± 0.1163
pull
Entries 89
Mean 216.3
Std Dev 0
pull1D
Entries 89
Mean −0.02738
Std Dev 1.068

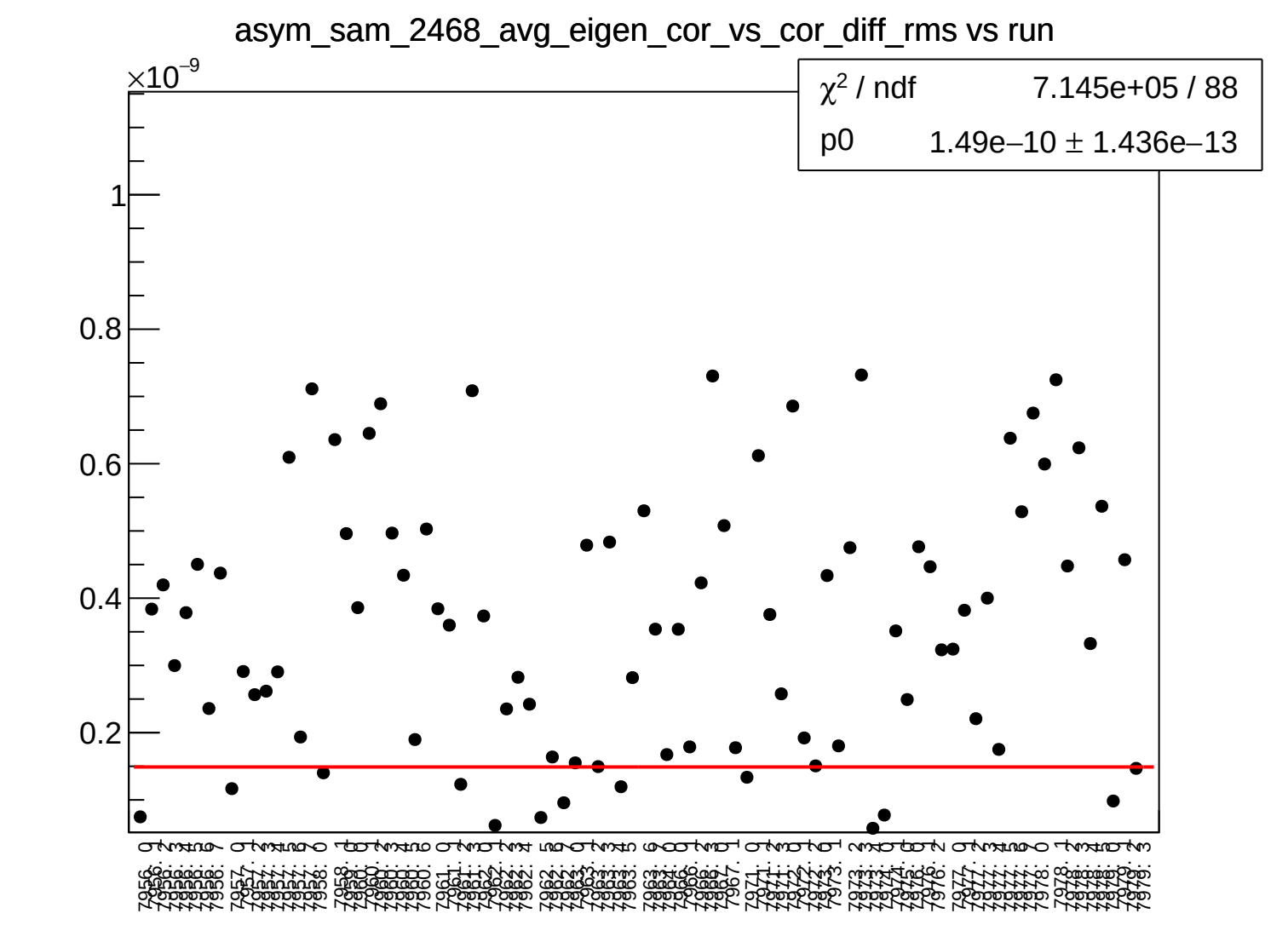

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.705e+05 / 88
p0 94.49 ± 0.08224
700
600
500
400
300
200
100

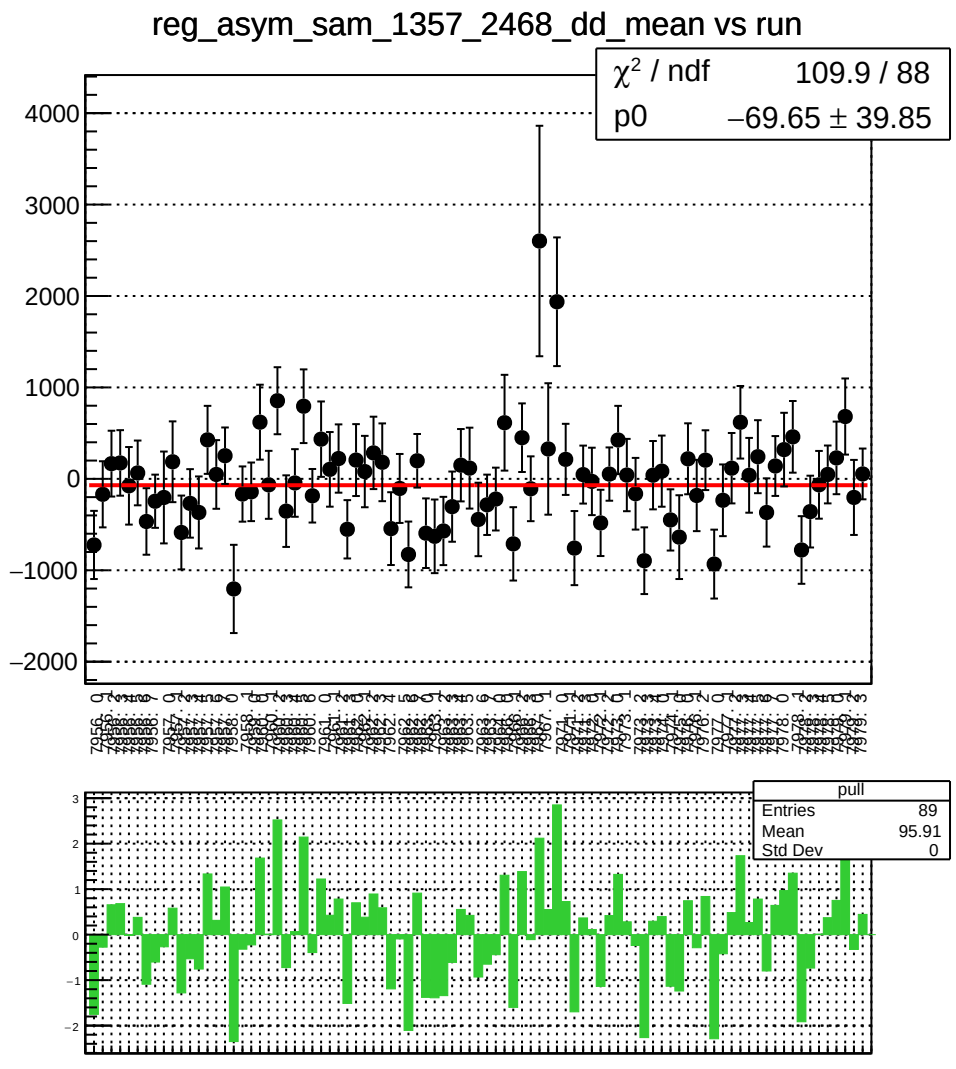

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.6 / 88
p0 −0.02277 ± 0.1163
pull
Entries 89
Mean 216.3
Std Dev 0
pull1D
Entries 89
Mean −0.02738
Std Dev 1.068

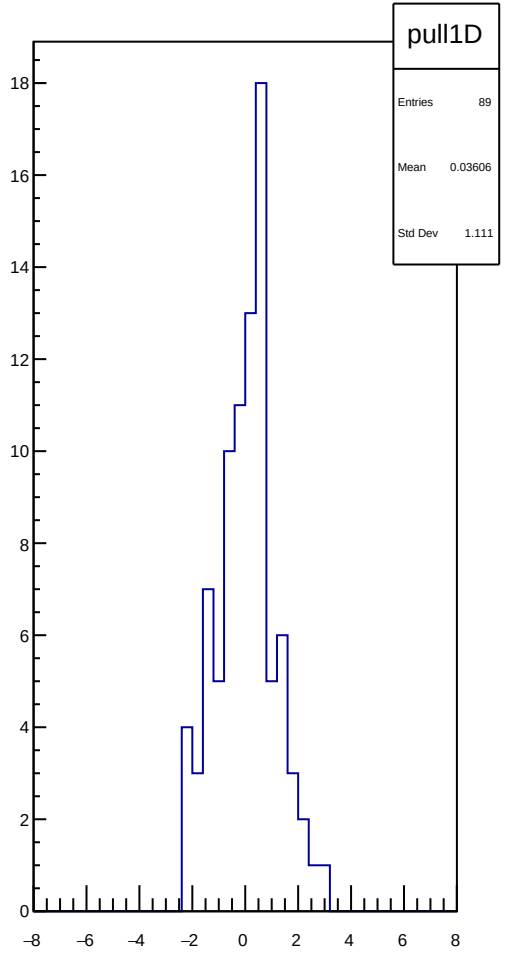

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.705e+05 / 88
p0 94.49 ± 0.08224
700
600
500
400
300
200
100

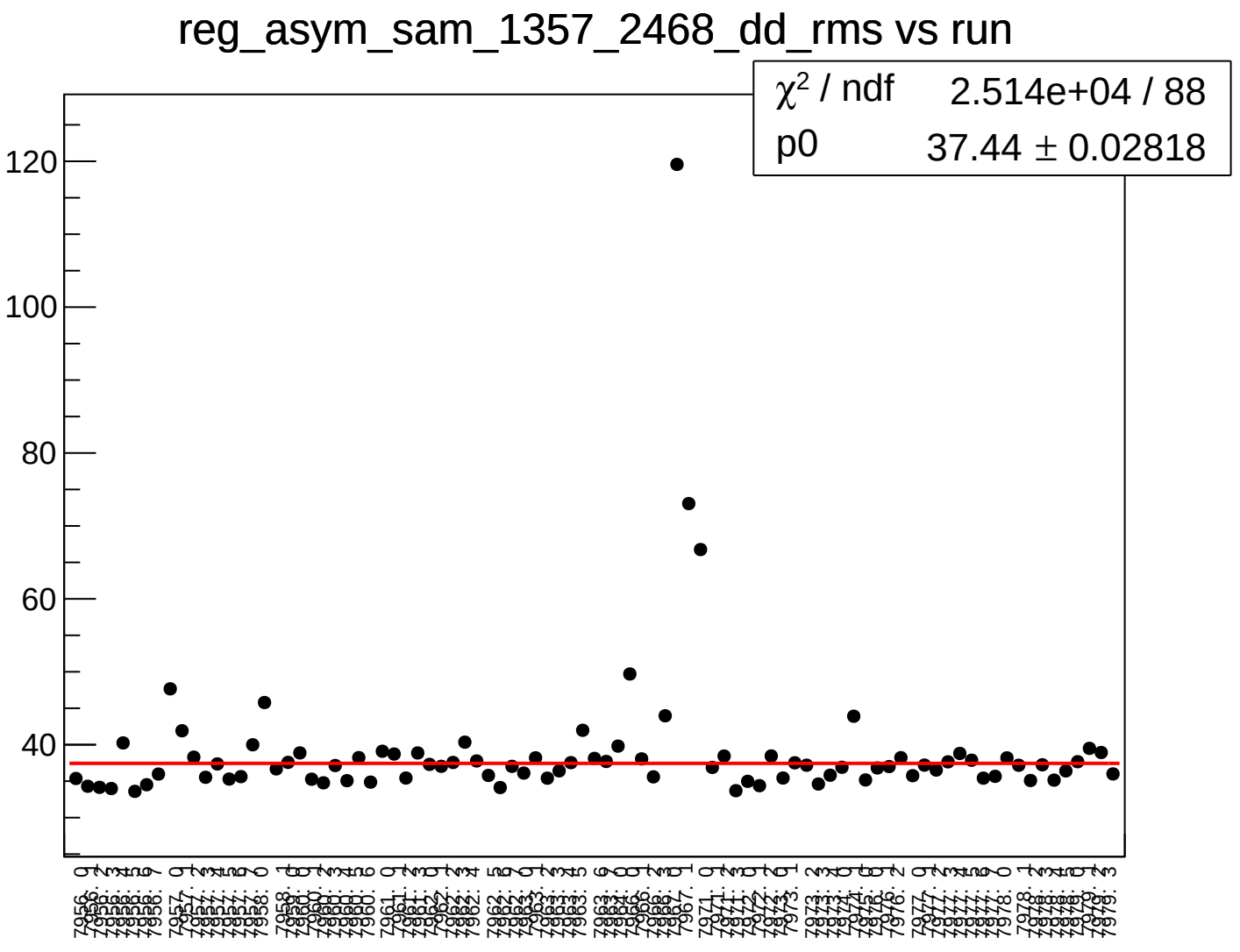

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.94 / 88
p0 −6.506e−14 ± 2.031e−13
pull
Entries 89
Mean 2041
Std Dev 0

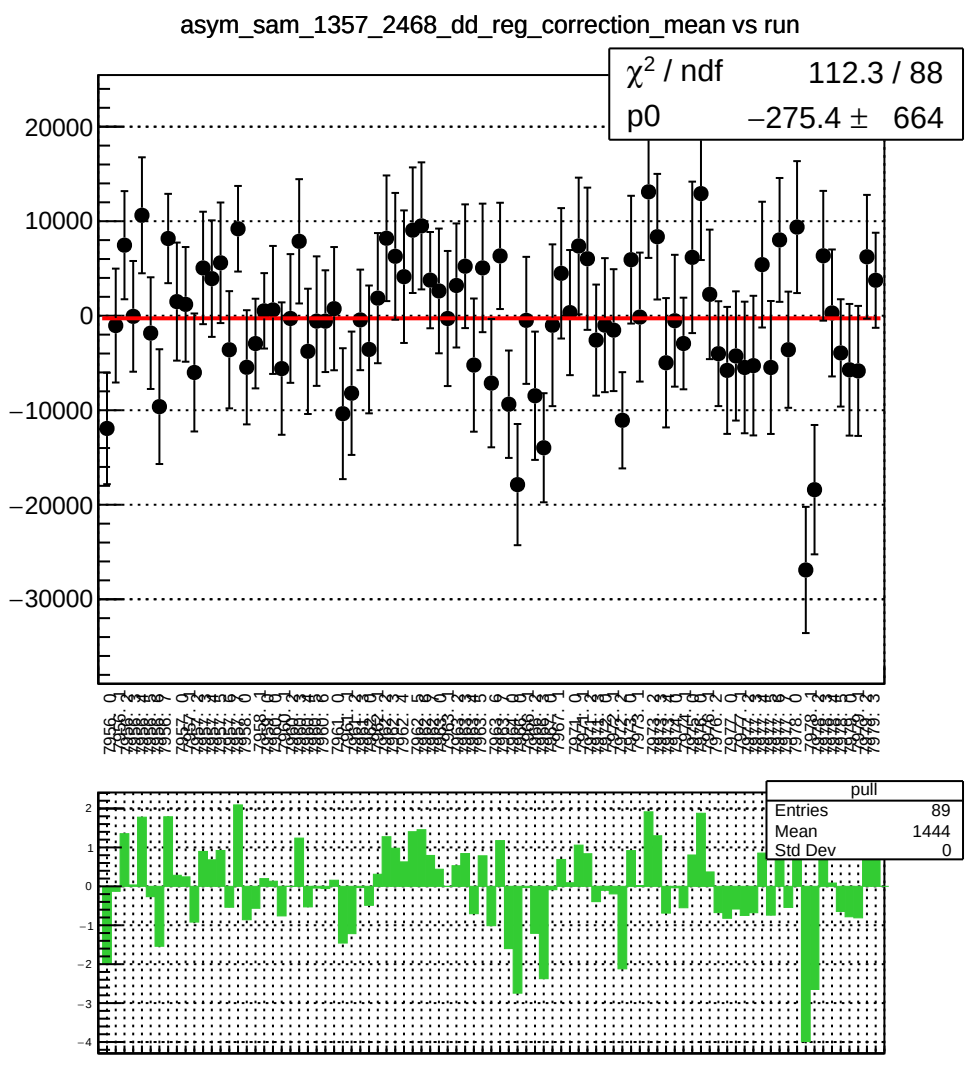

pull1D
Entries 89
Mean −0.002078
Std Dev 1.027

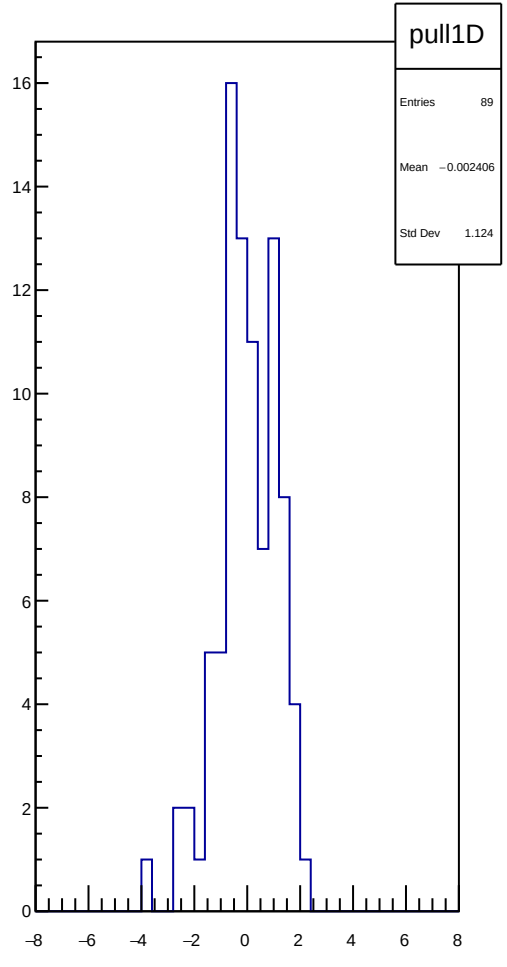

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.145e+05 / 88
p0 1.49e−10 ± 1.436e−13
1
0.8
0.6
0.4
0.2

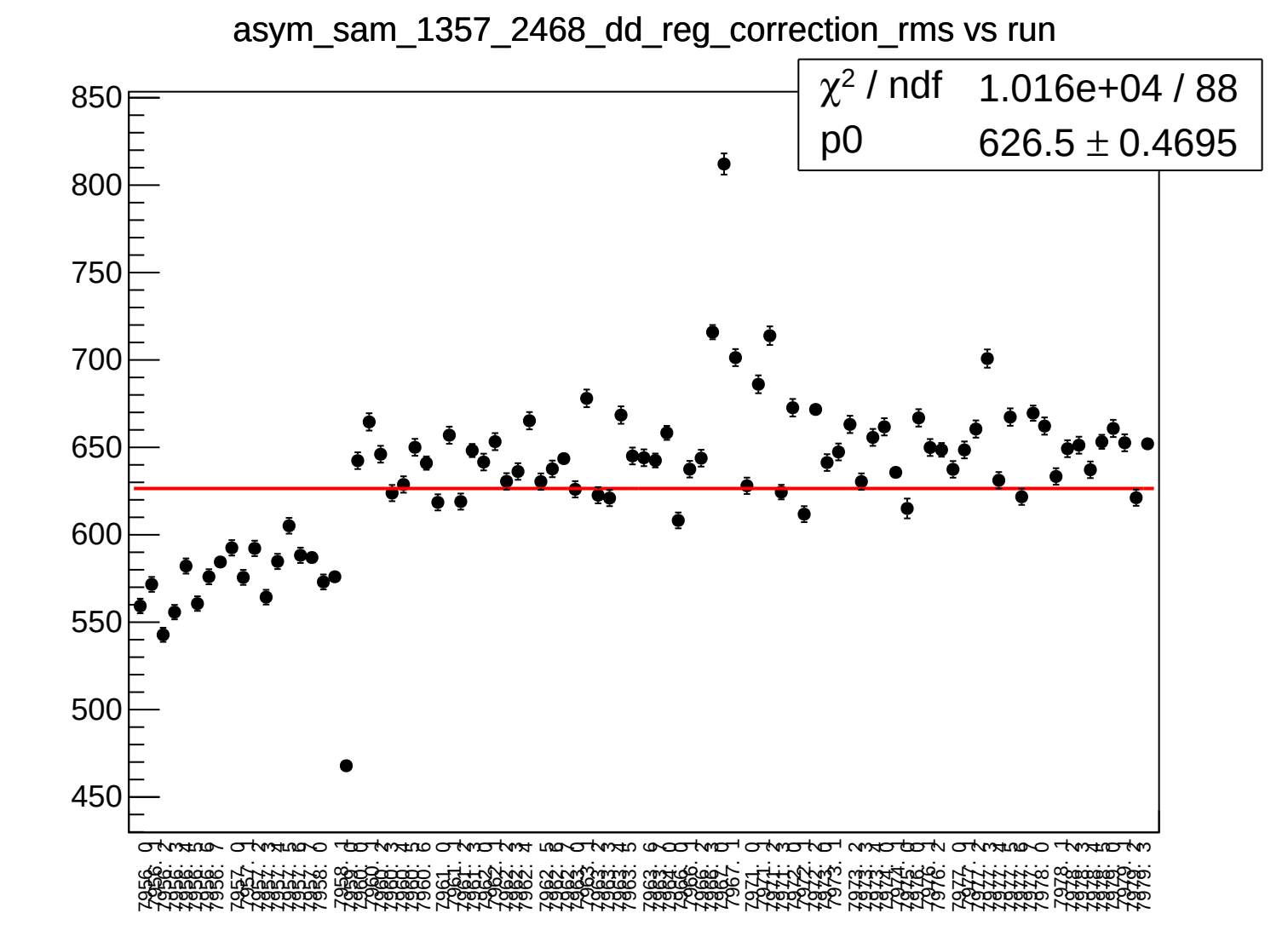

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 109.9 / 88
p0 −69.65 ± 39.85
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 95.91
Std Dev 0
3
2
1
0
−1
−2

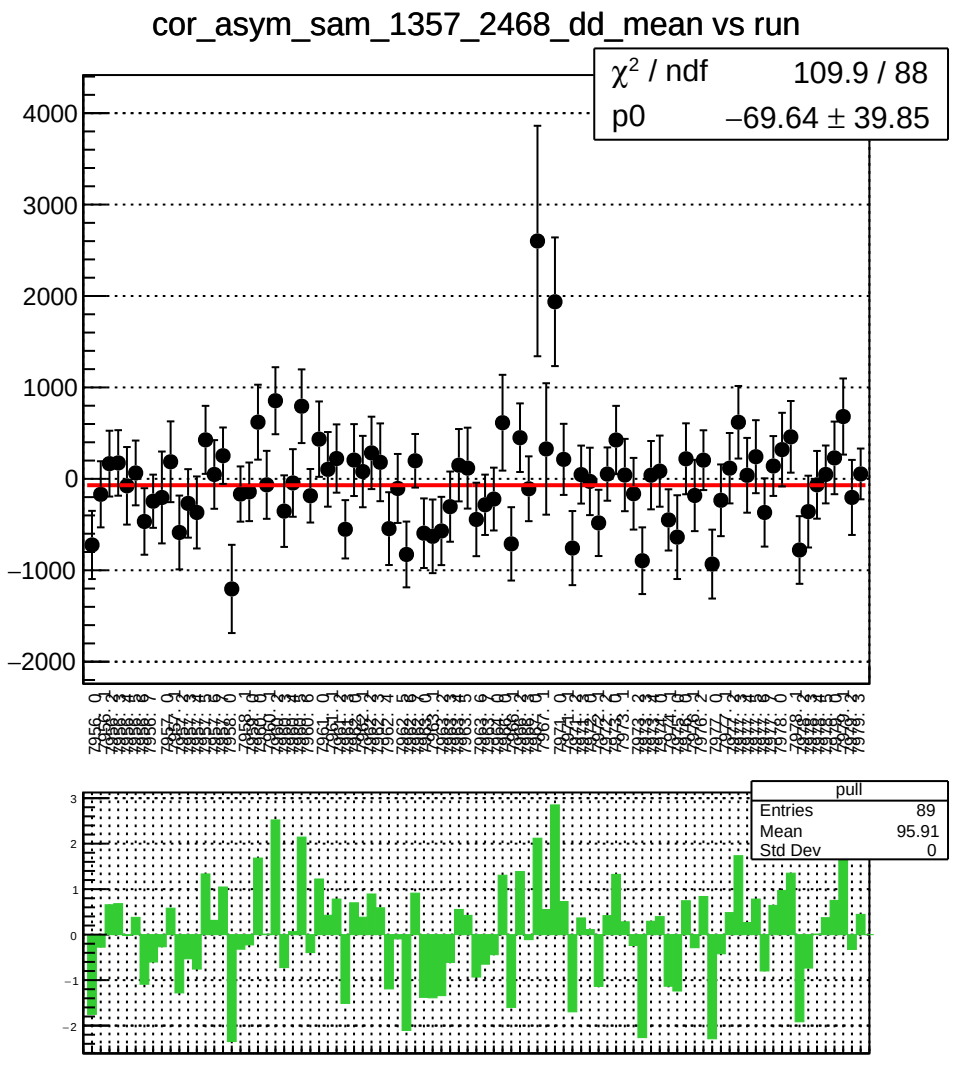

pull1D
Entries 89
Mean 0.03606
Std Dev 1.111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

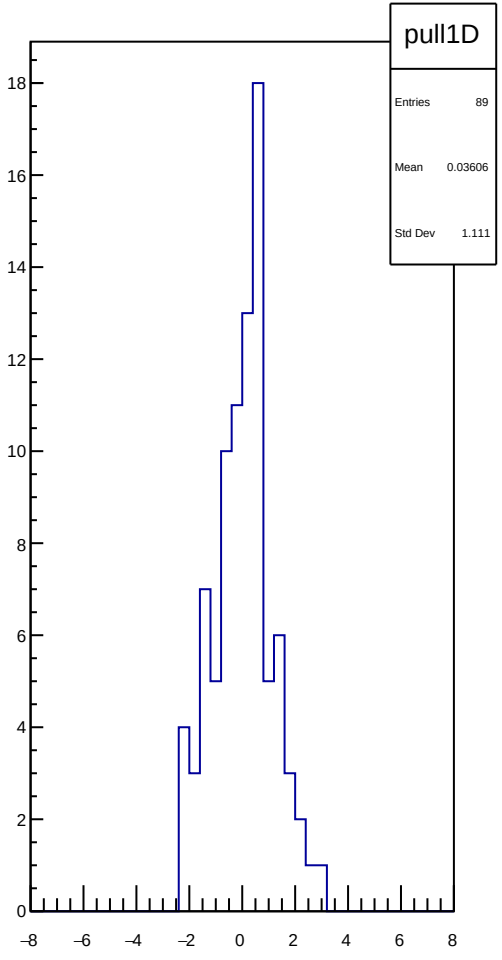

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.514e+04 / 88
p0 37.44 ± 0.02818
120
100
80
60
40

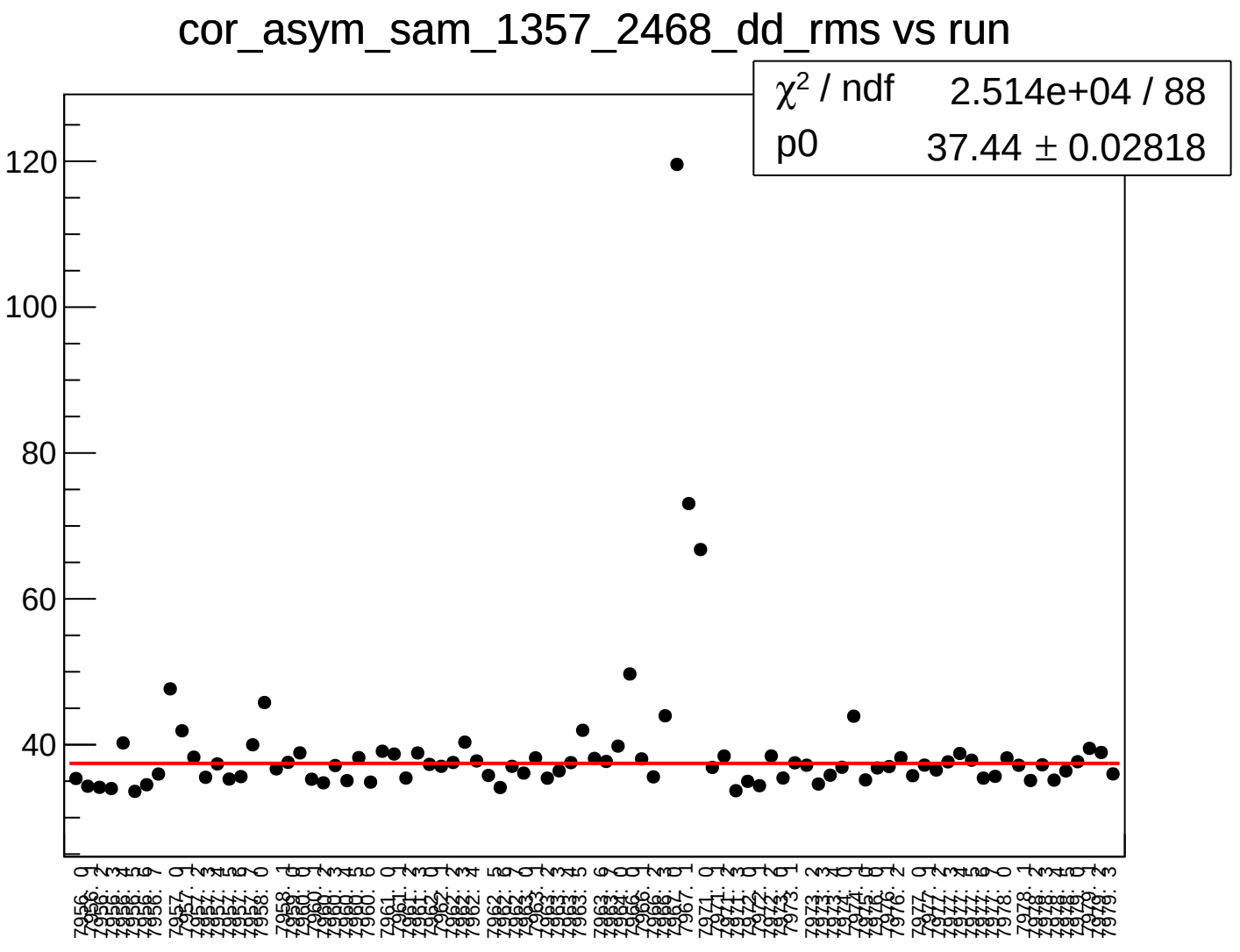

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 112.3 / 88
p0 −275.4 ± 664
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1444
Std Dev 0
2
1
0
−1
−2
−3
−4

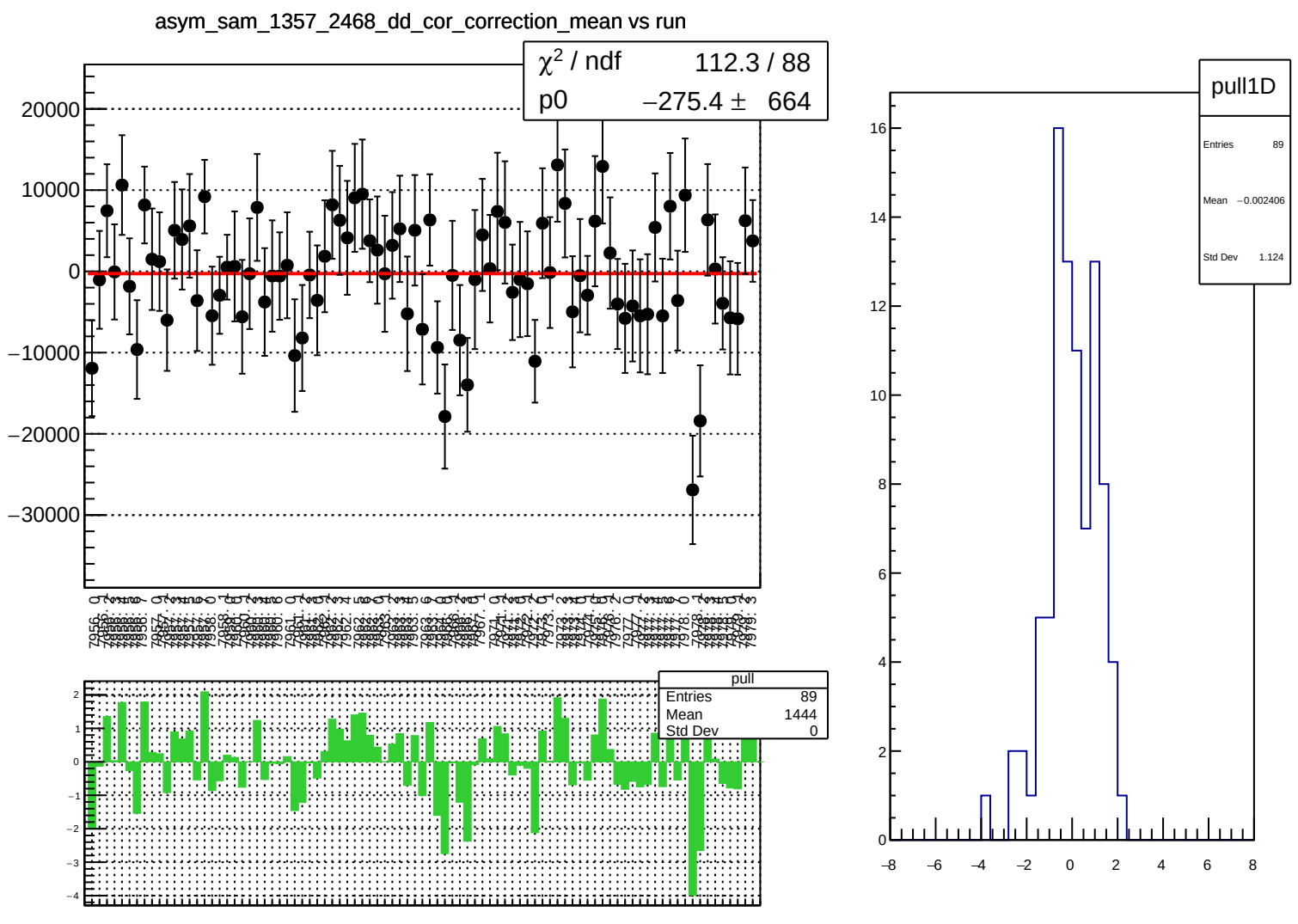

pull1D
Entries 89
Mean −0.002406
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

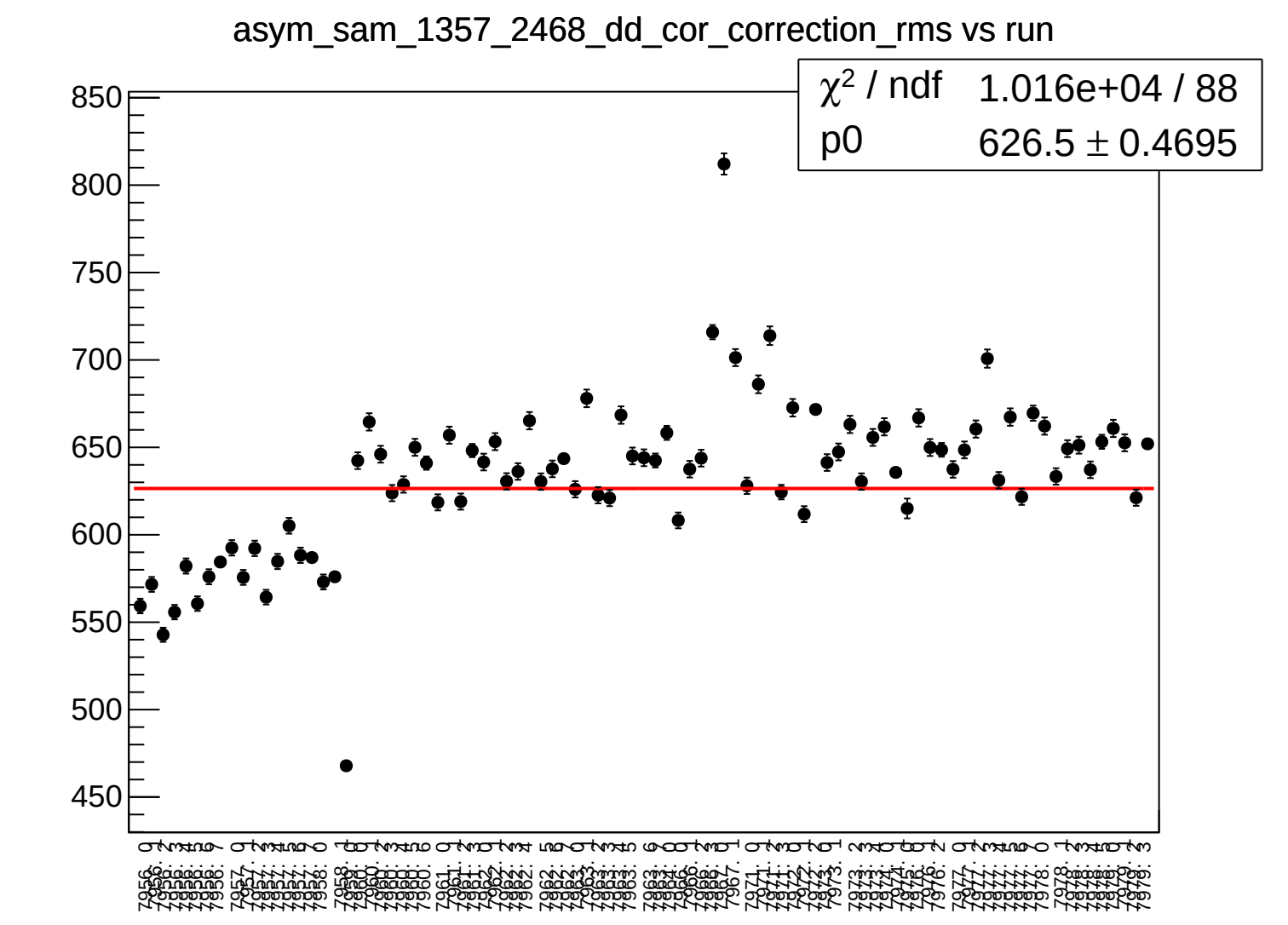

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.016e+04 / 88
p0 626.5 ± 0.4695
850
800
750
700
650
600
550
500
450

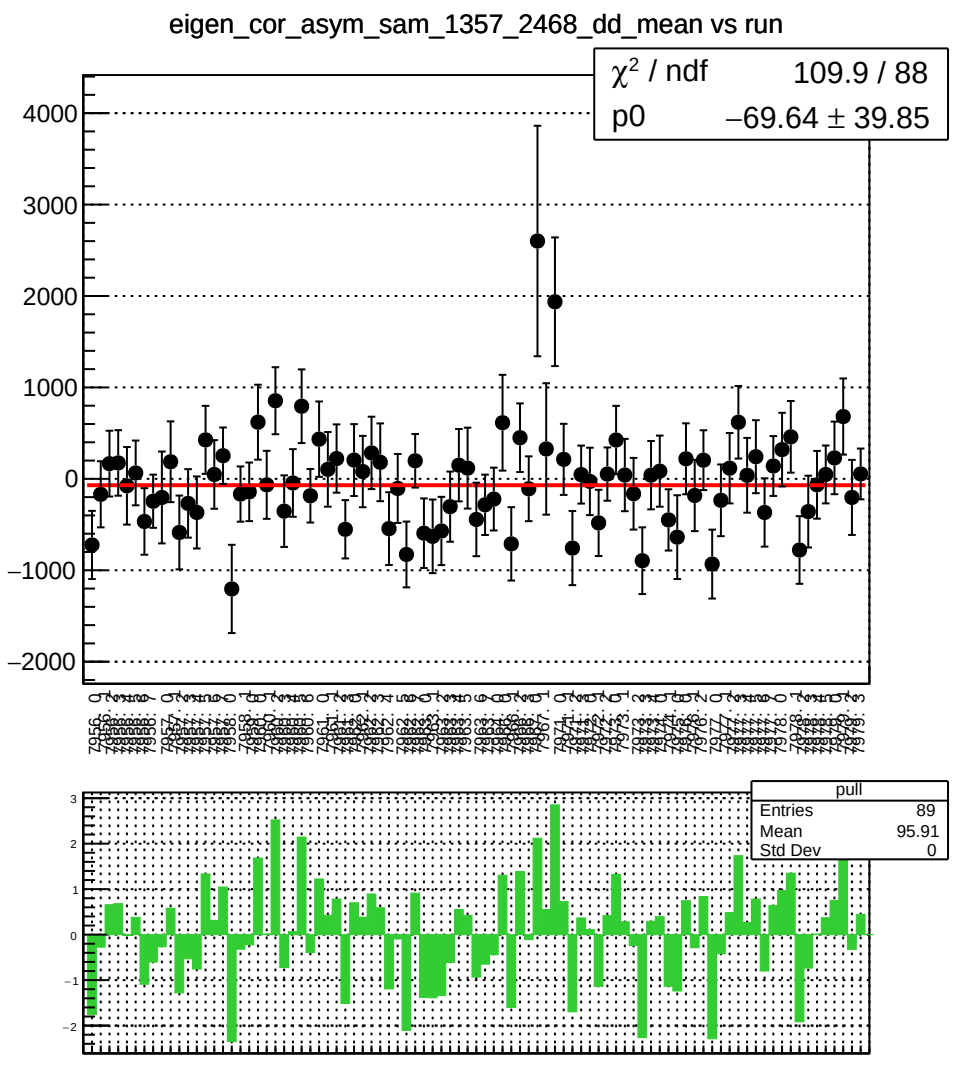

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 109.9 / 88
p0 −69.64 ± 39.85
pull
Entries 89
Mean 95.91
Std Dev 0

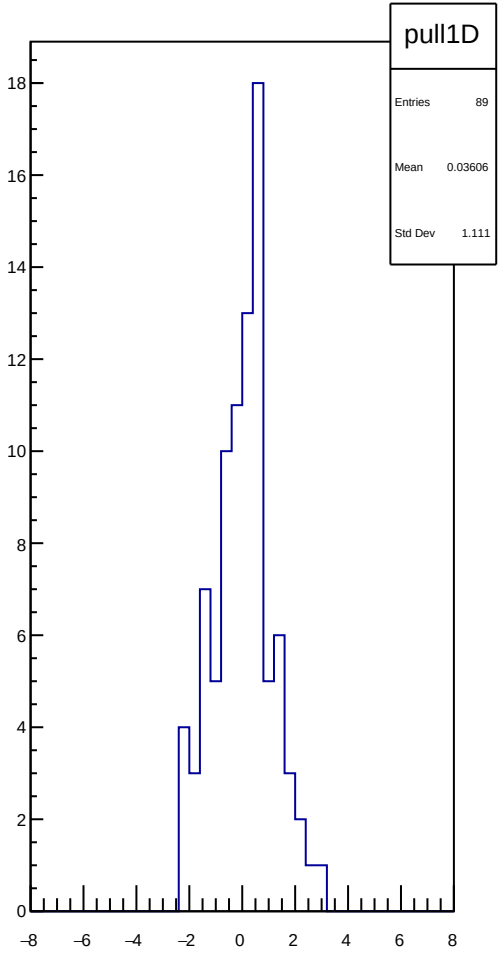

pull1D
Entries 89
Mean 0.03606
Std Dev 1.111

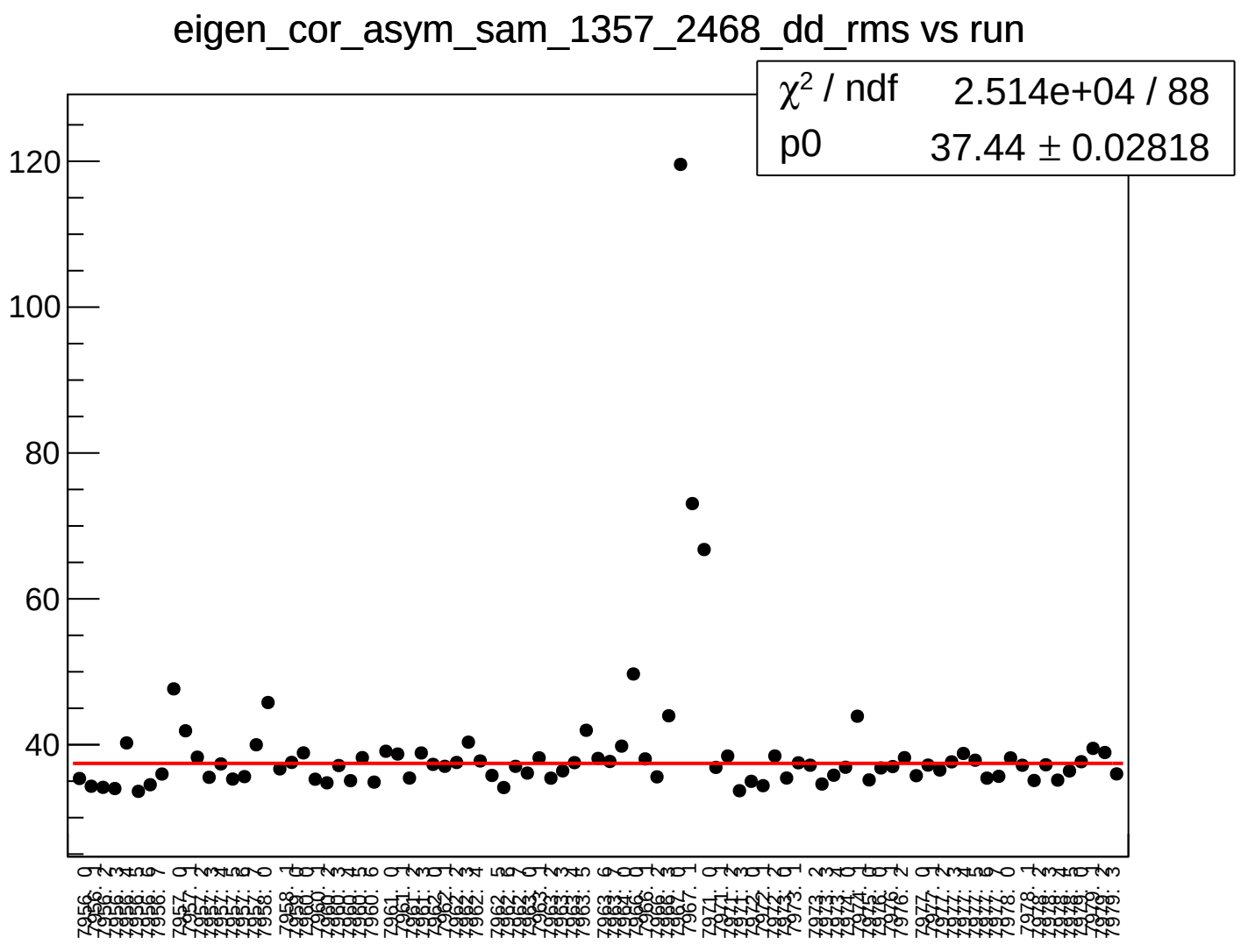

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.514e+04 / 88
p0 37.44 ± 0.02818
120
100
80
60
40

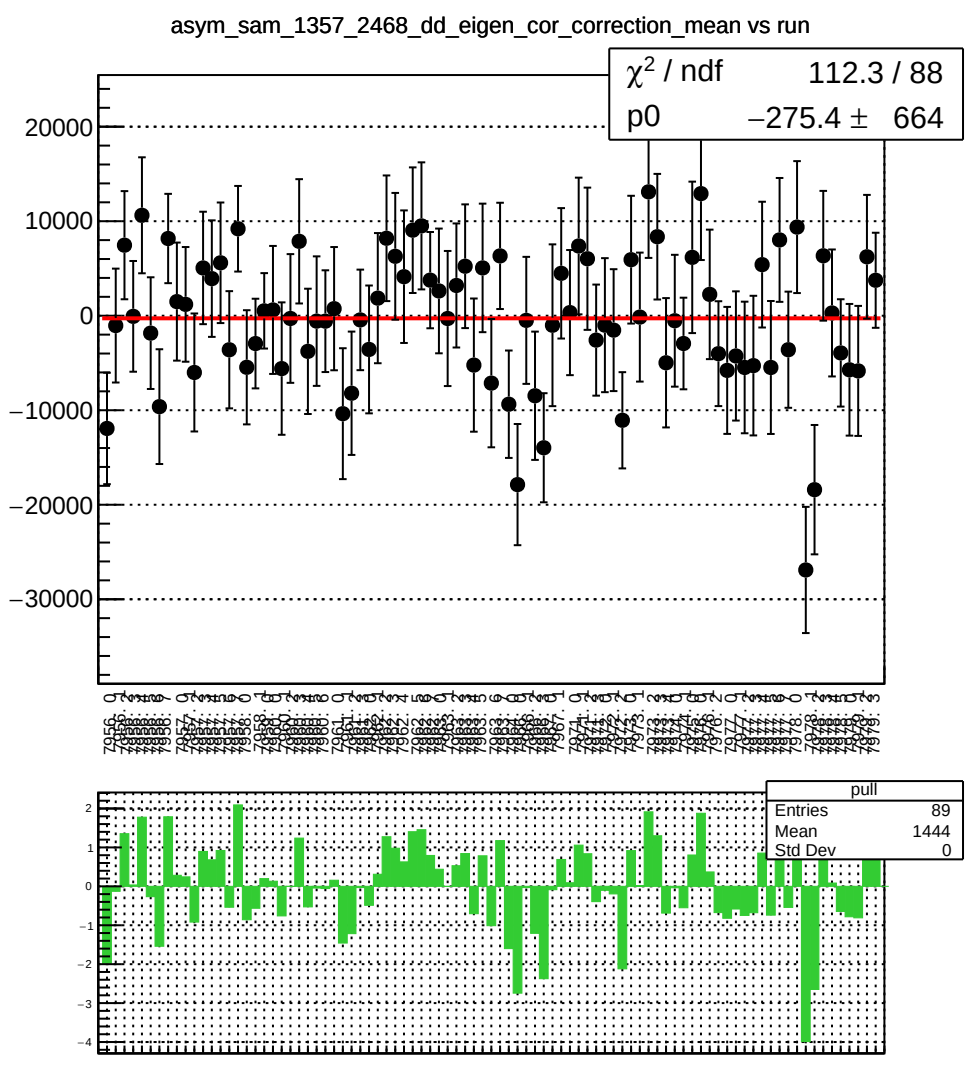

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 112.3 / 88
p0 −275.4 ± 664
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1444
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean −0.002406
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

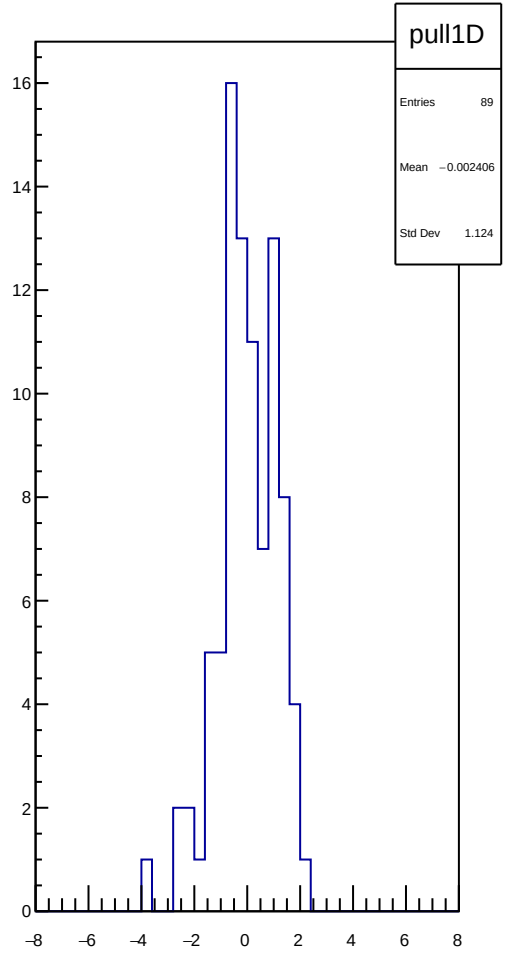

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.016e+04 / 88
p0 626.5 ± 0.4695
850
800
750
700
650
600
550
500
450

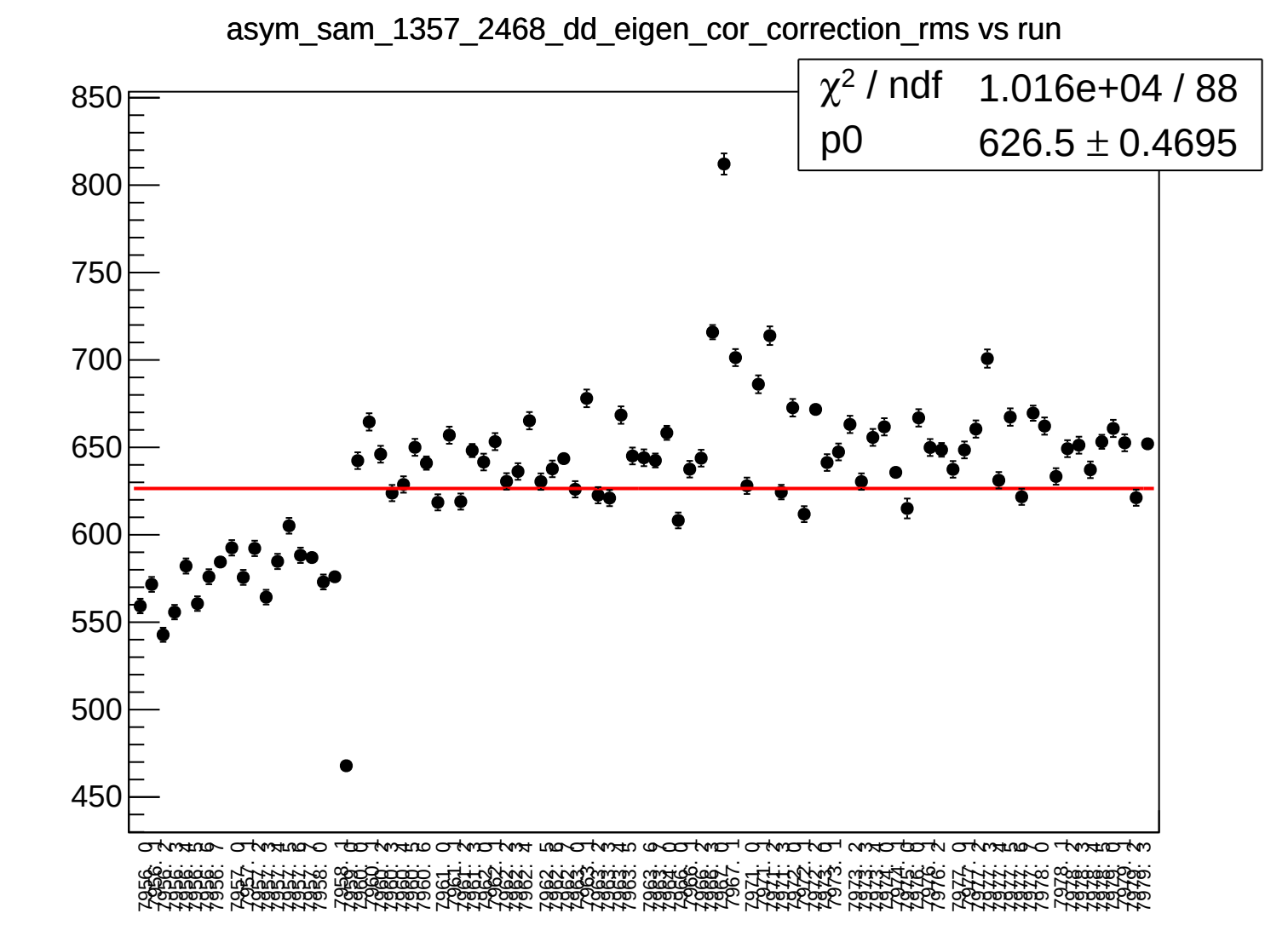

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 109.9 / 88
p0 −69.64 ± 39.85
pull
Entries 89
Mean 95.91
Std Dev 0

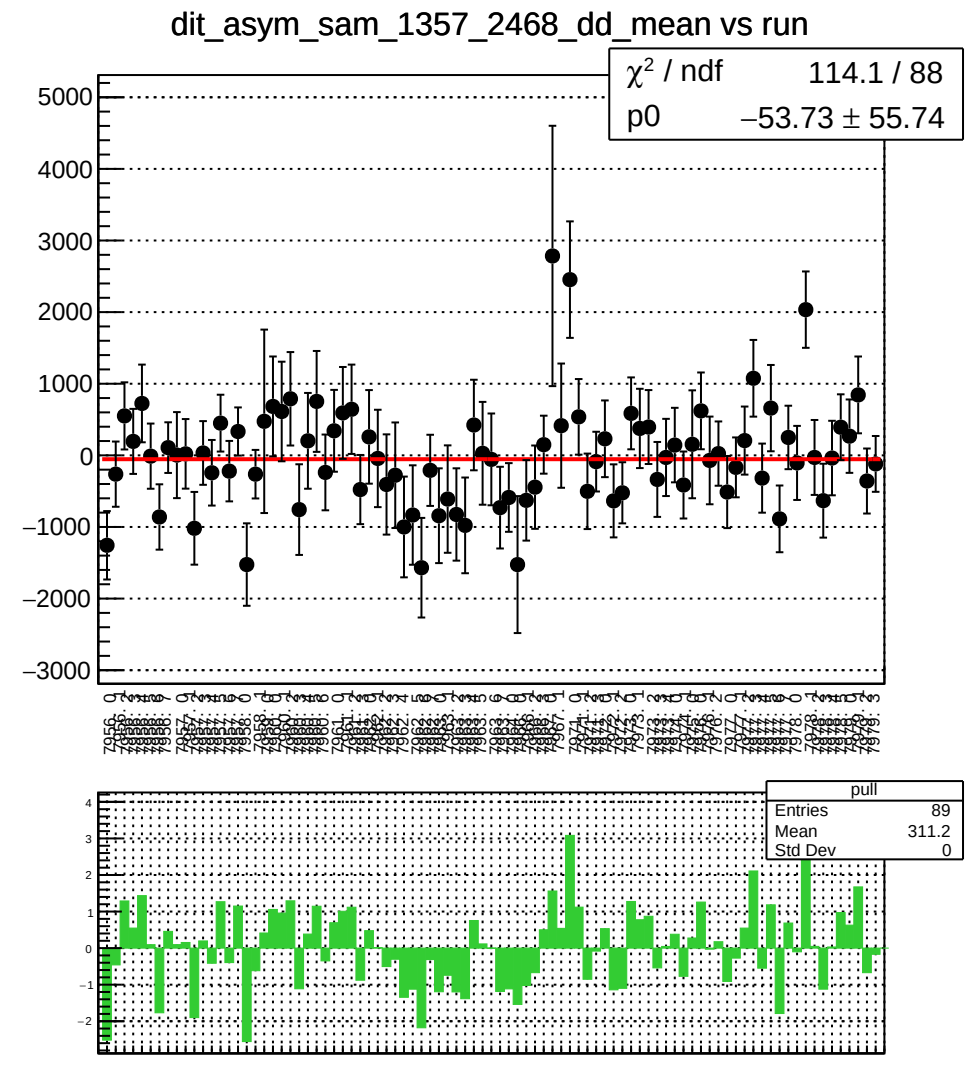

pull1D
Entries 89
Mean 0.03606
Std Dev 1.111

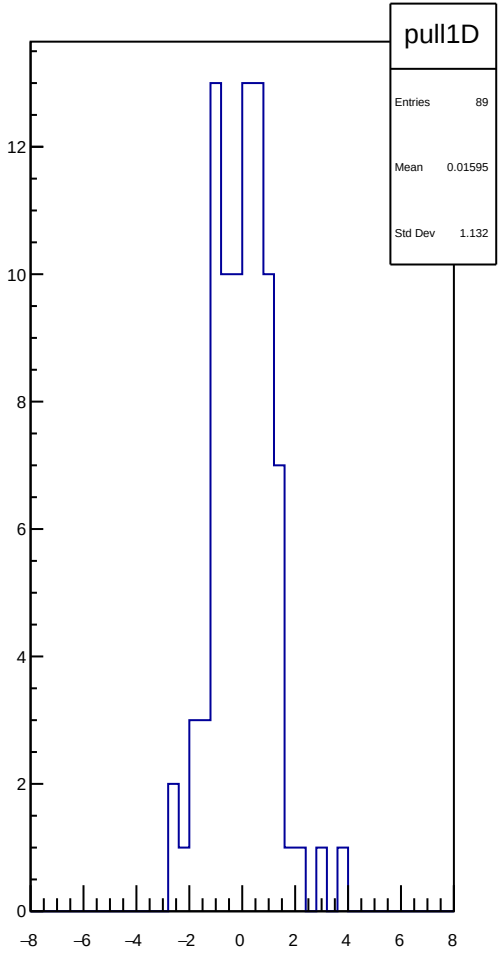

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.514e+04 / 88
p0 37.44 ± 0.02818
120
100
80
60
40

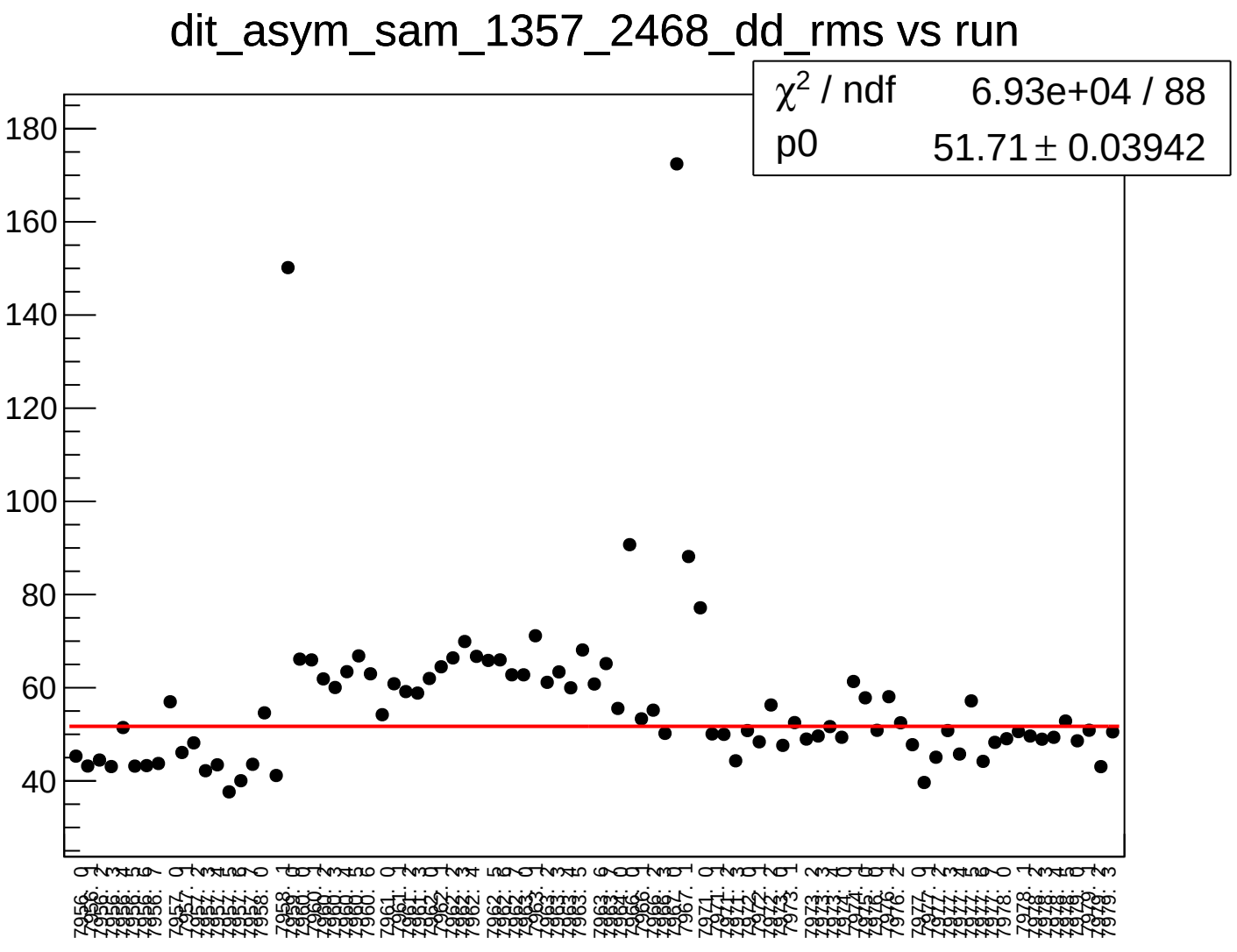

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.3 / 88
p0 −275.4 ± 664
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1444
Std Dev 0
2
1
0
−1
−2
−3
−4

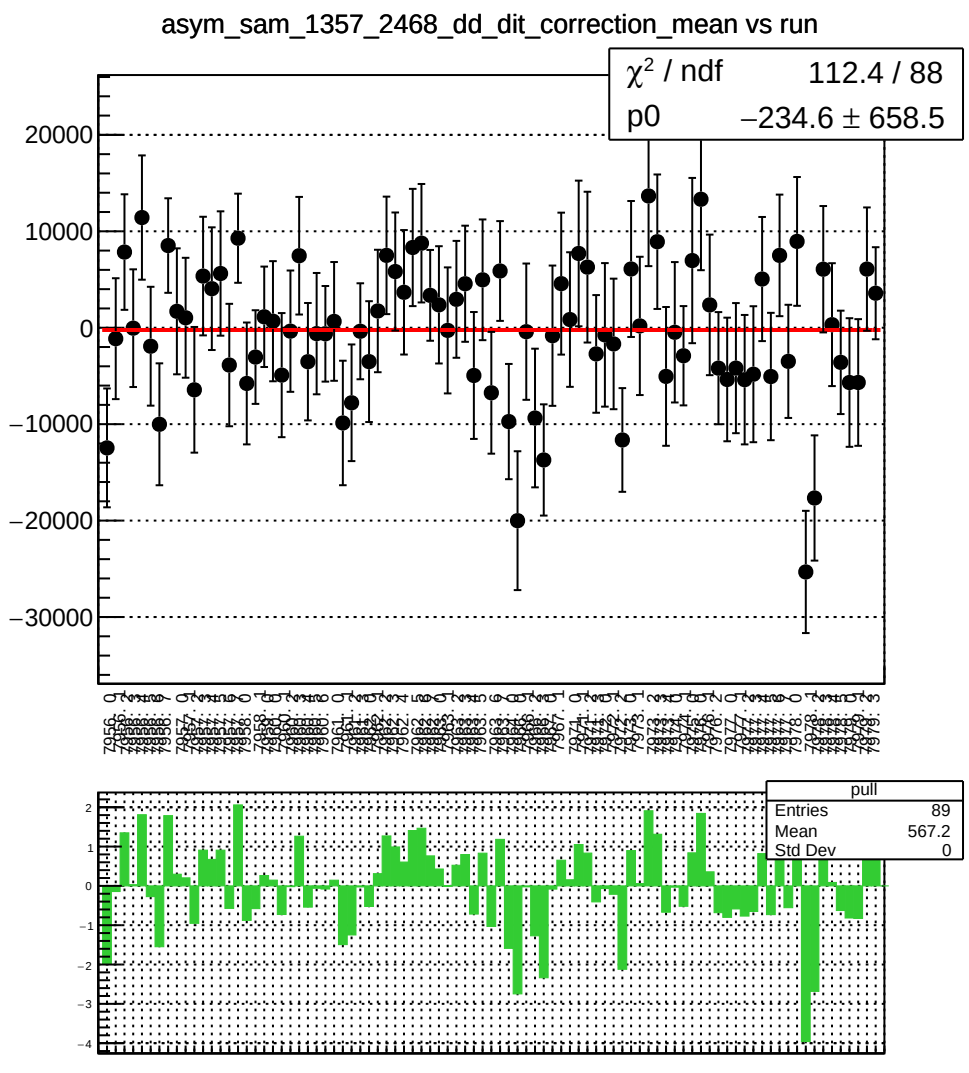

pull1D
Entries 89
Mean −0.002406
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

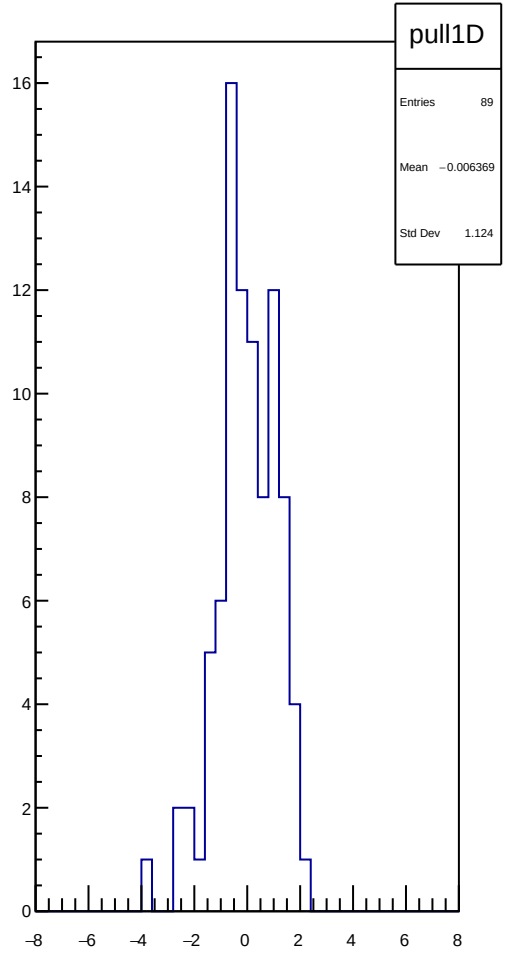

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.016e+04 / 88
p0 626.5 ± 0.4695
850
800
750
700
650
600
550
500
450

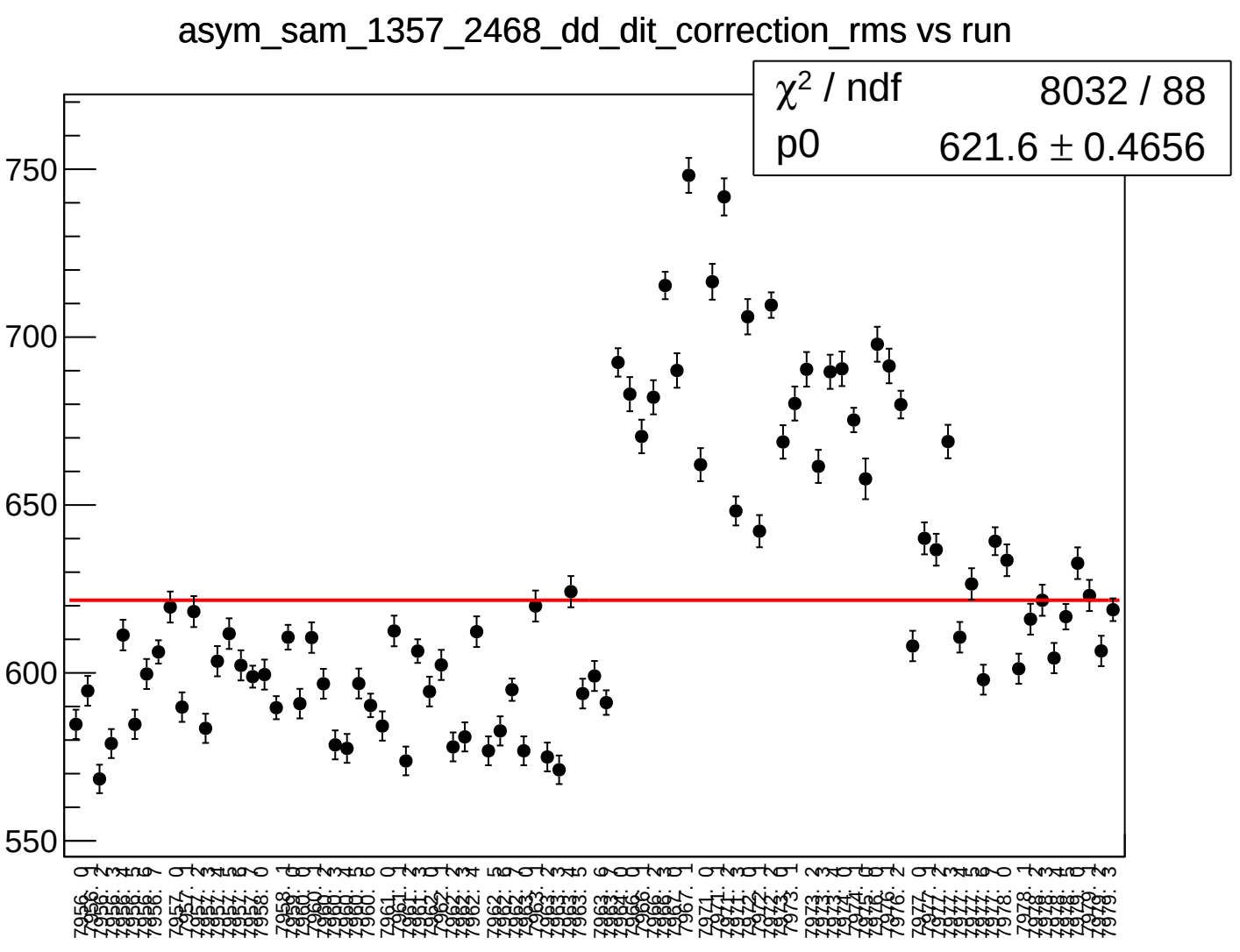

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 114.1 / 88
p0 −53.73 ± 55.74
pull
Entries 89
Mean 311.2
Std Dev 0

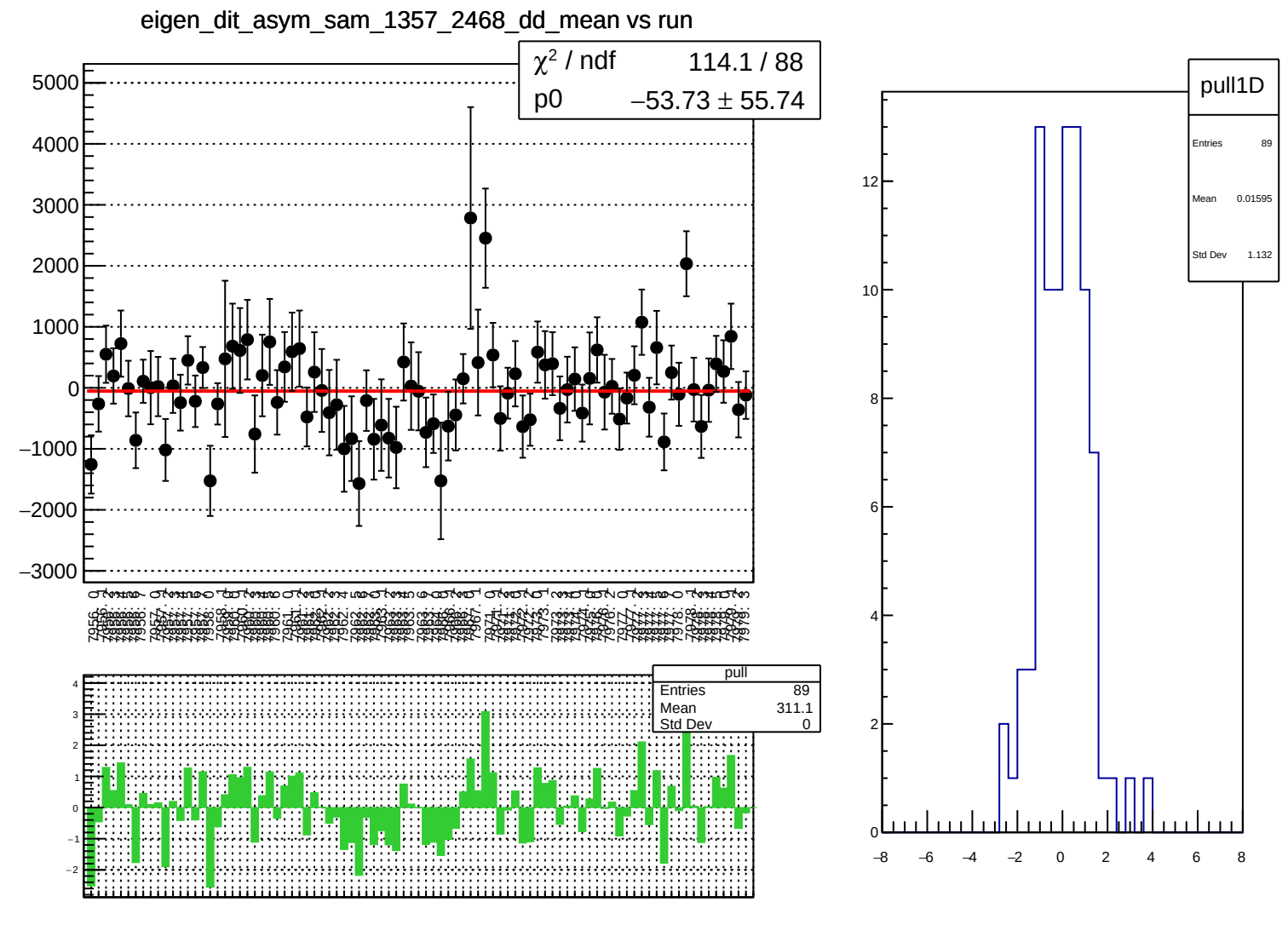

pull1D
Entries 89
Mean 0.01595
Std Dev 1.132

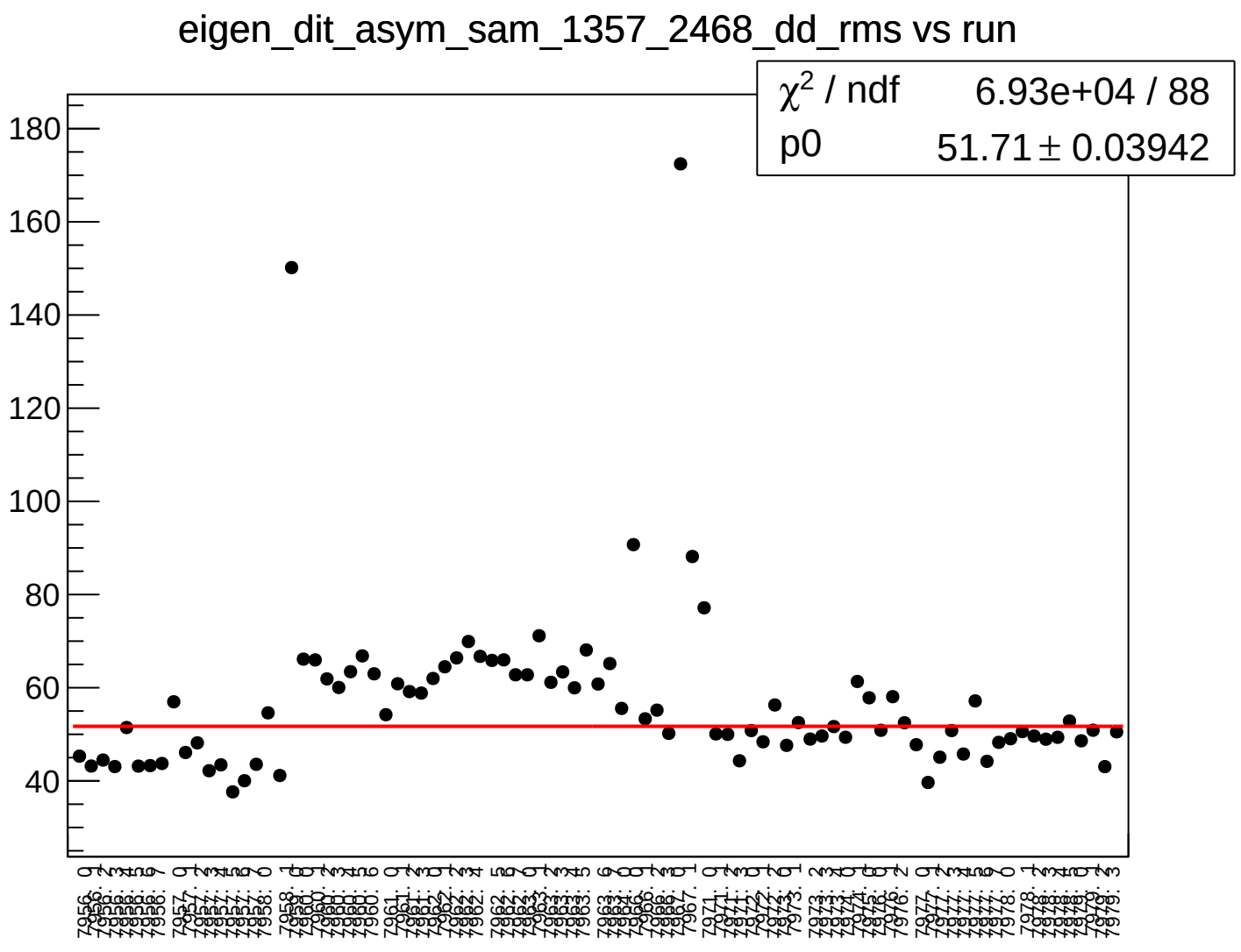

dit_asym_sam_1357_2468_dd_rms vs run
$\chi^2$ / ndf 6.93e+04 / 88
p0 51.71 ± 0.03942
180
160
140
120
100
80
60
40

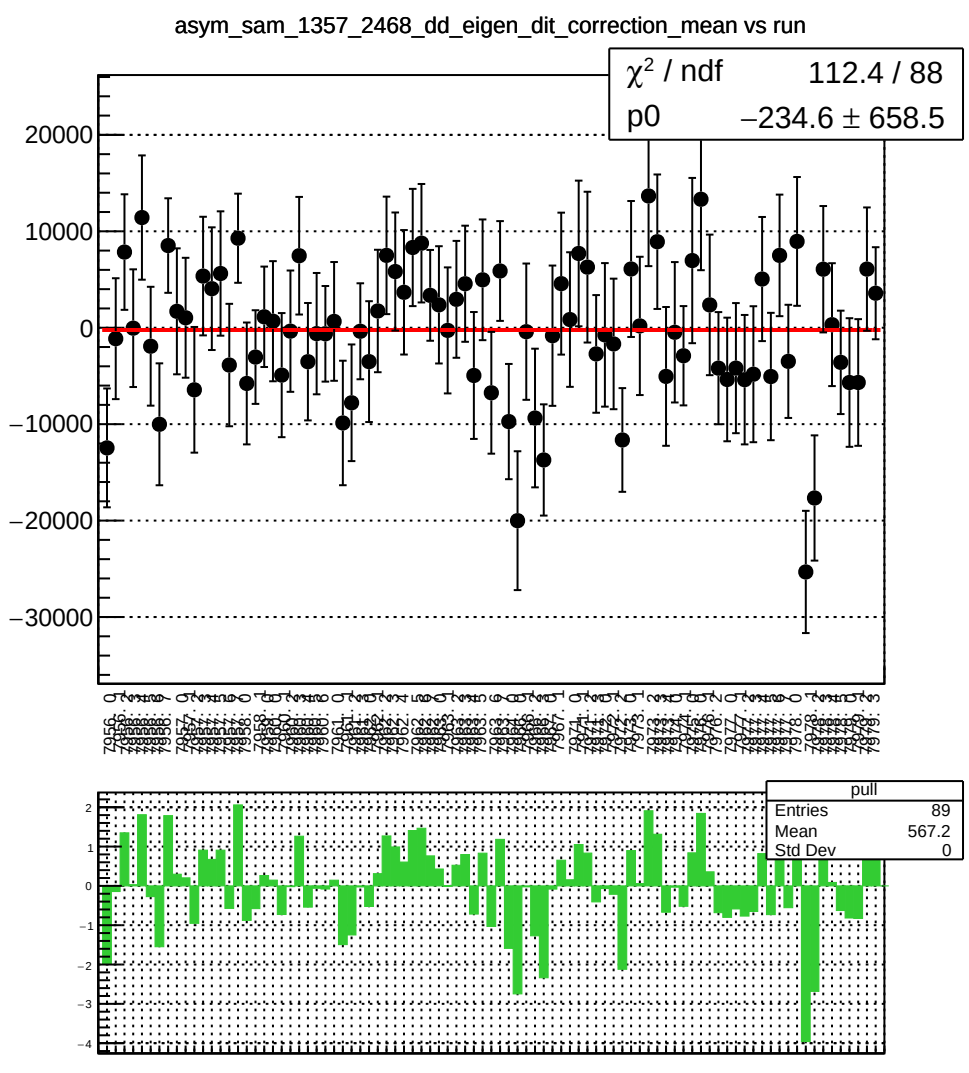

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 112.4 / 88
p0 −234.6 ± 658.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 567.2
Std Dev 0
2
1
0
−1
−2
−3
−4

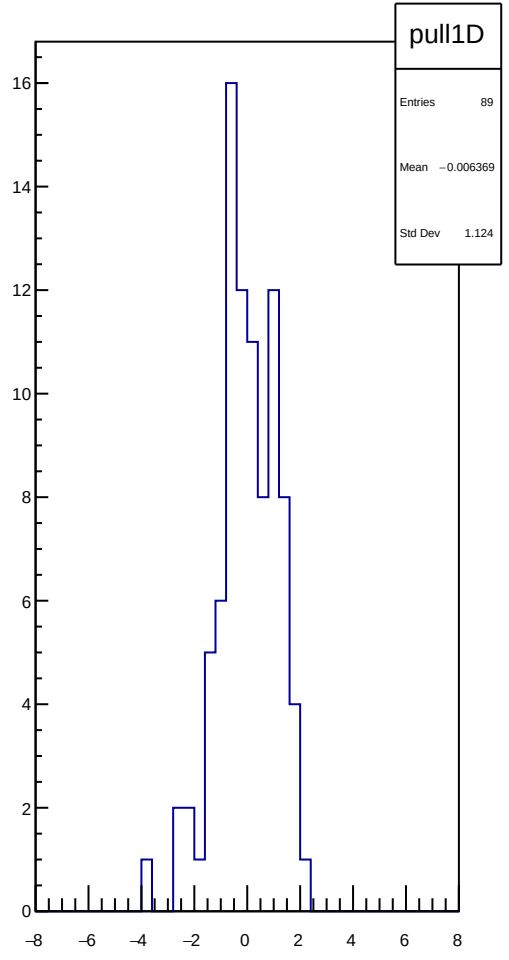

pull1D
Entries 89
Mean −0.006369
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

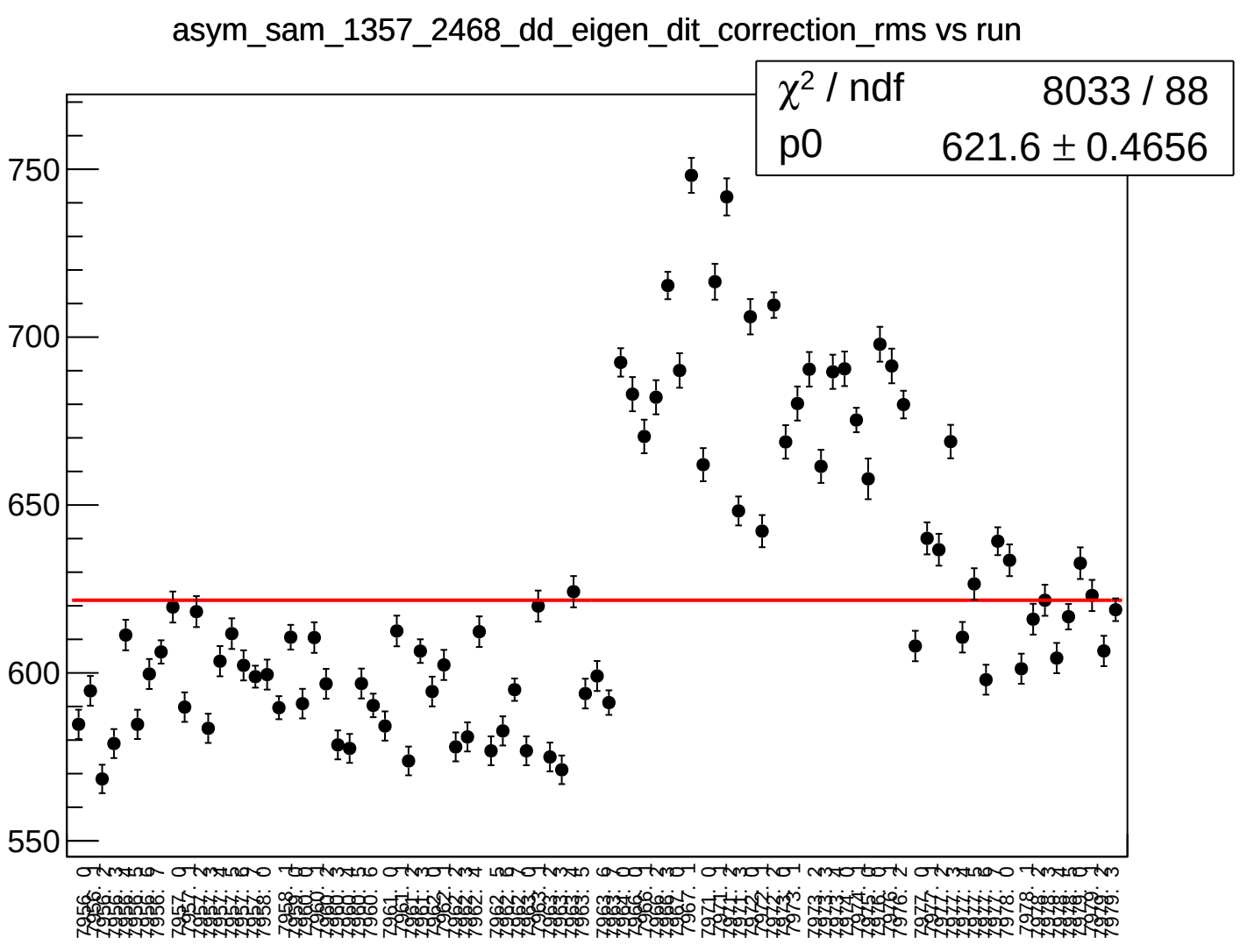

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 8032 / 88
p0 621.6 ± 0.4656
750
700
650
600
550

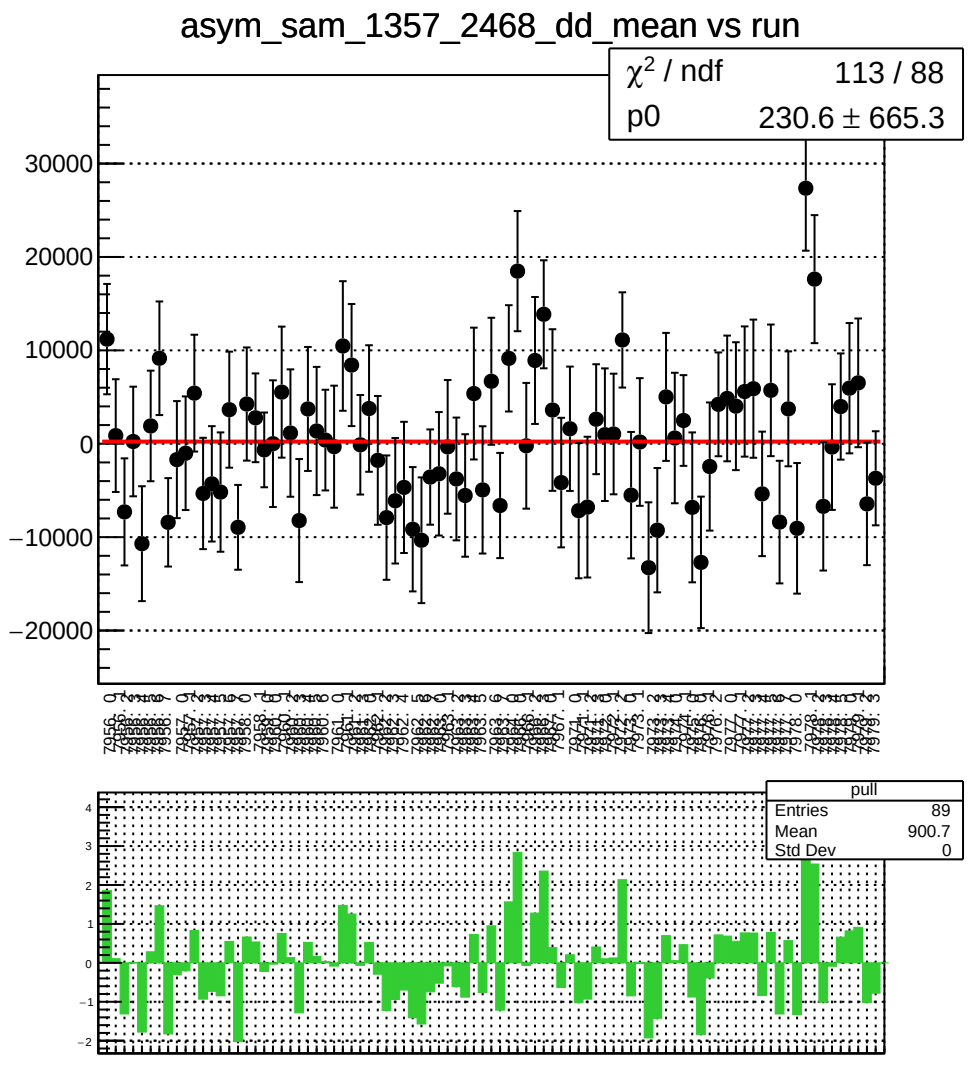

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 114.1 / 88
p0 −53.73 ± 55.74
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 311.1
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01595
Std Dev 1.132
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

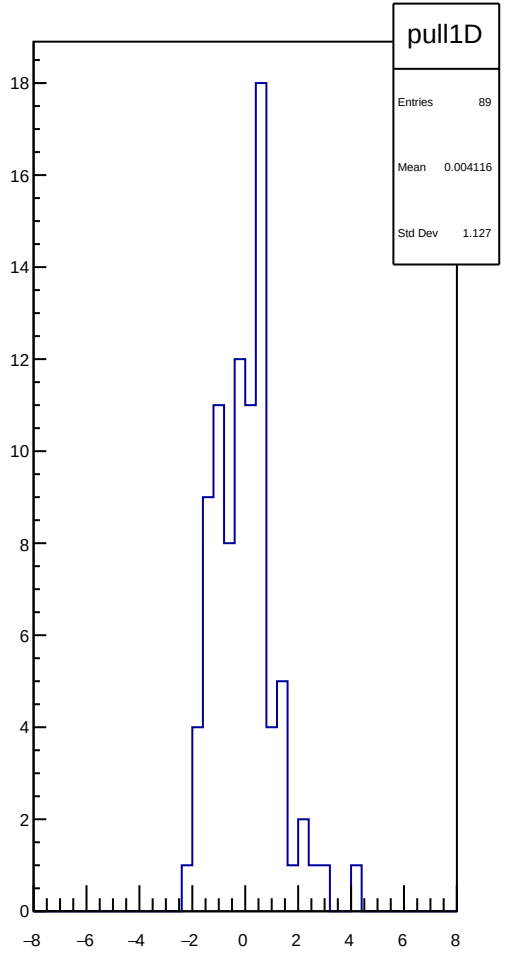

eigen_dit_asym_sam_1357_2468_dd_rms vs run
$\chi^2$ / ndf 6.93e+04 / 88
p0 51.71 ± 0.03942
180
160
140
120
100
80
60
40

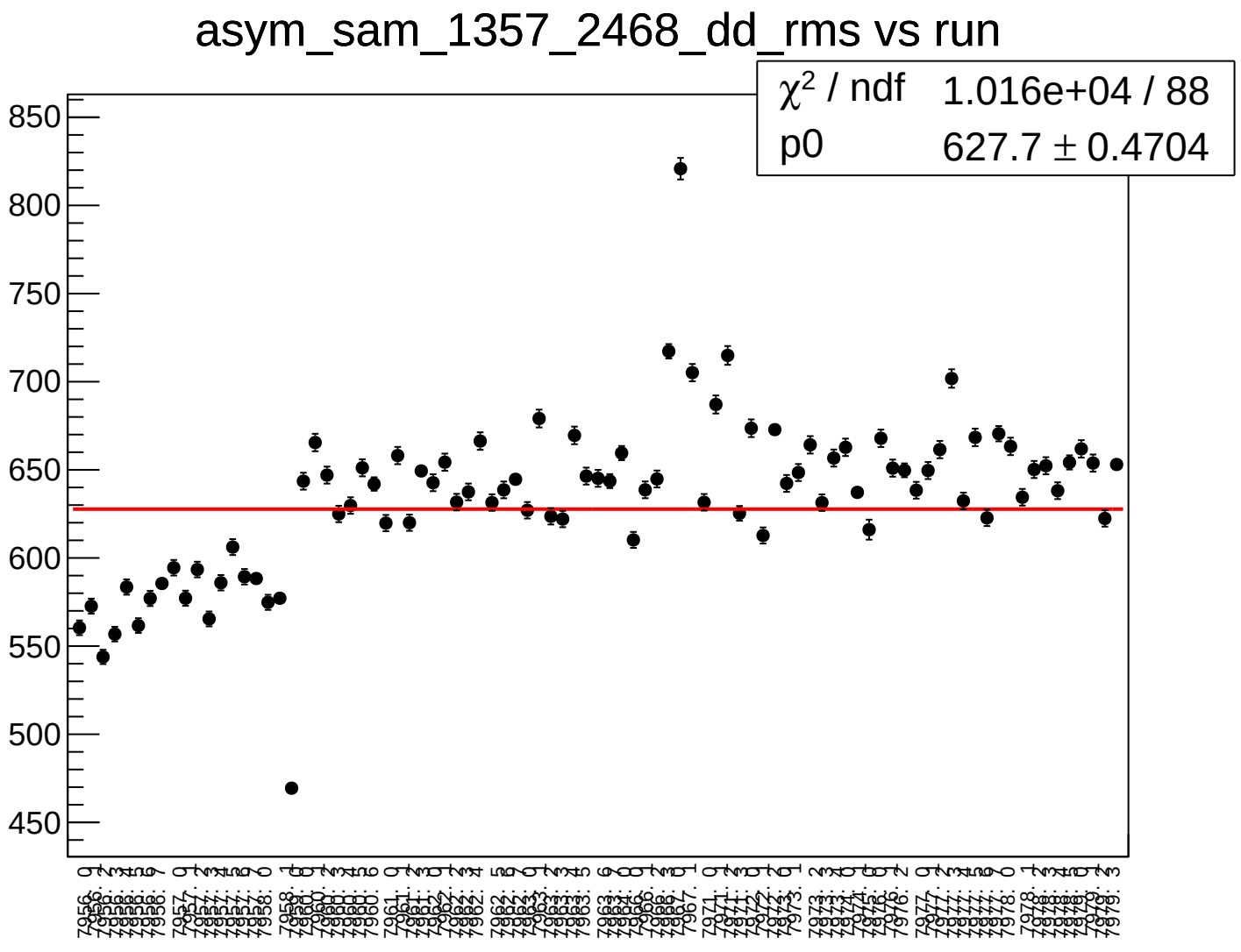

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 112.4 / 88
p0 −234.6 ± 658.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 567.2
Std Dev 0
2
1
0
−1
−2
−3
−4

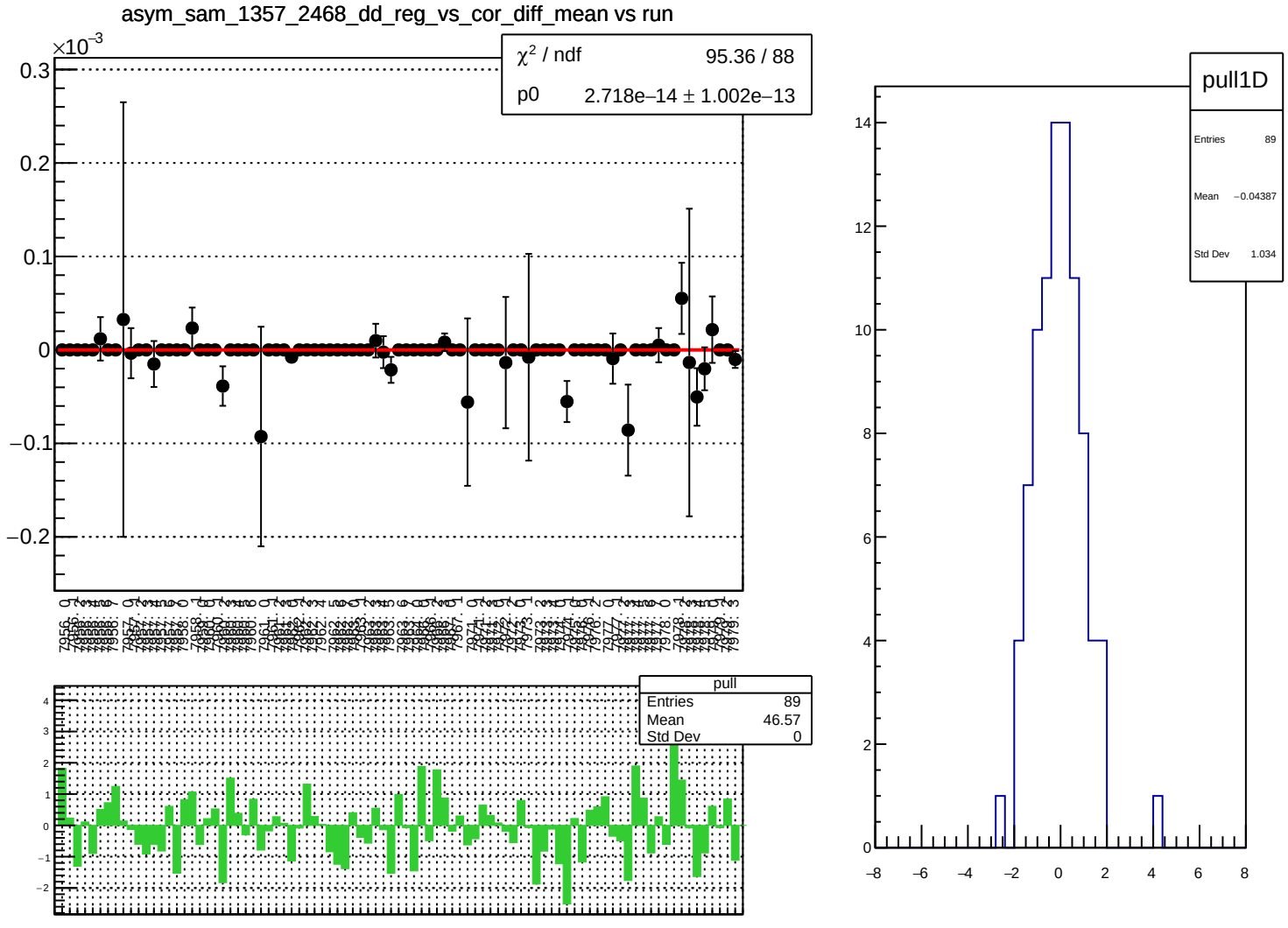

pull1D
Entries 89
Mean −0.006369
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

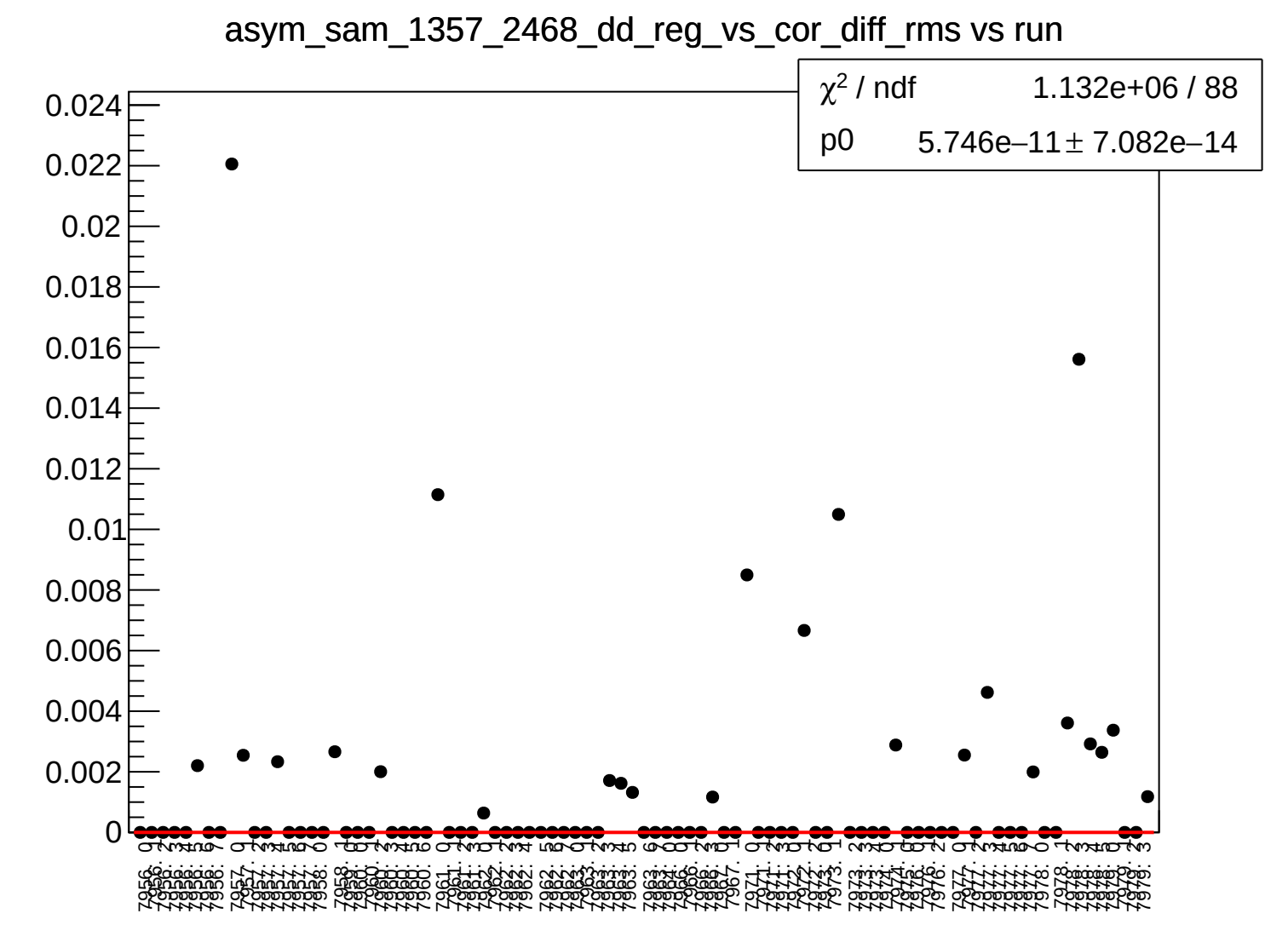

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 8033 / 88
p0 621.6 ± 0.4656
750
700
650
600
550

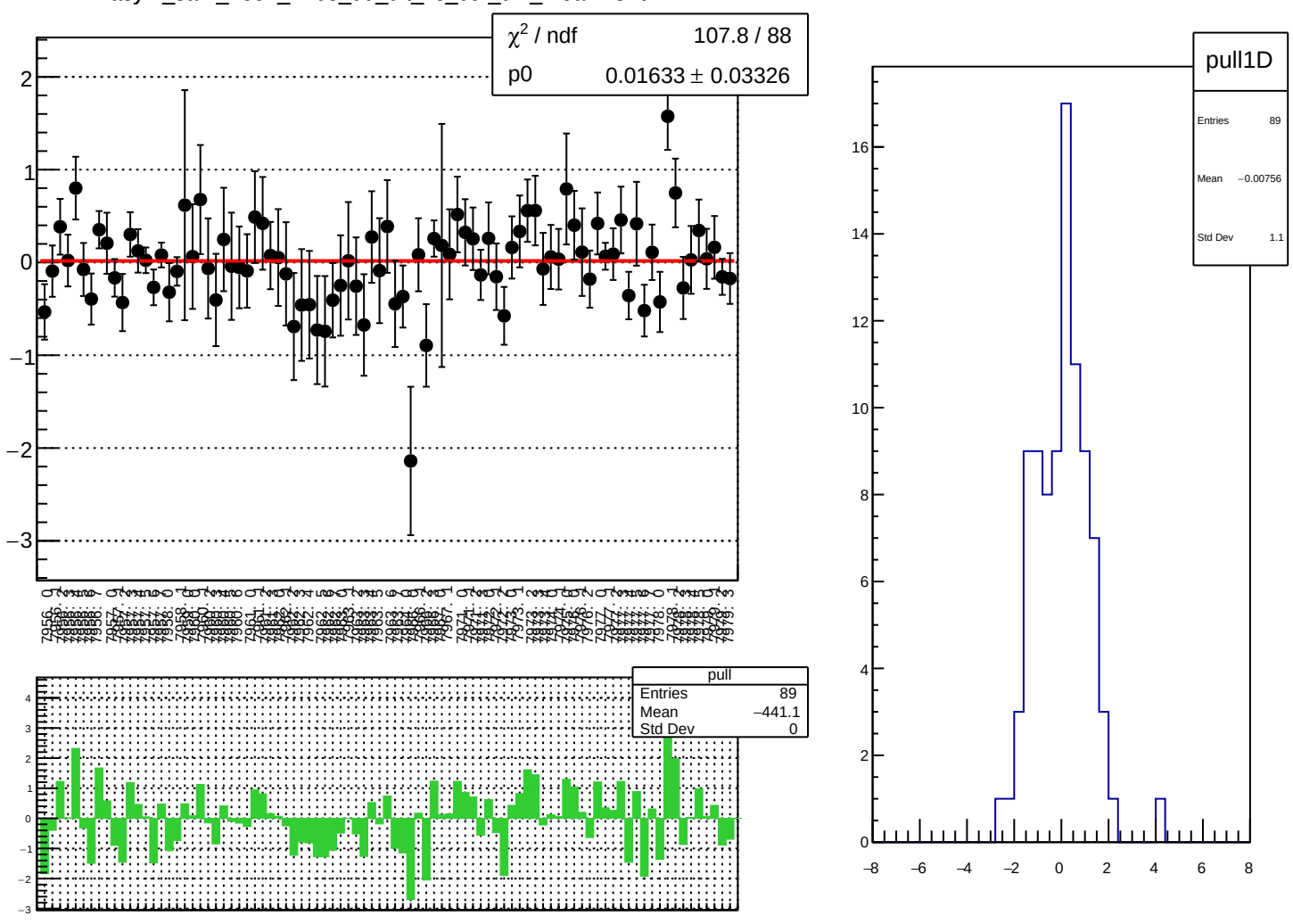

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 113 / 88
p0 230.6 ± 665.3
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 900.7
Std Dev 0
4
3
2
1
0
−1
−2

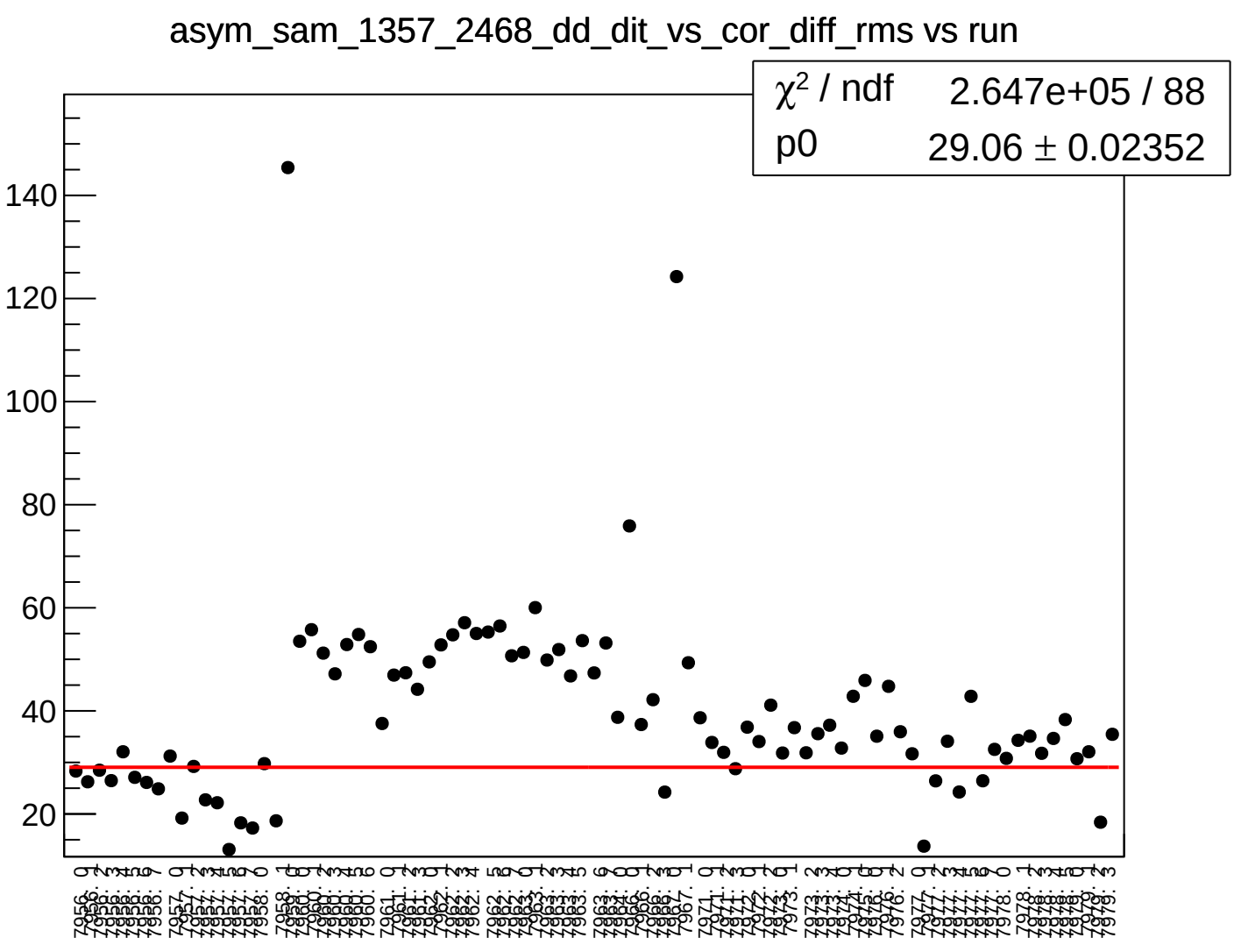

pull1D
Entries 89
Mean 0.004116
Std Dev 1.127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

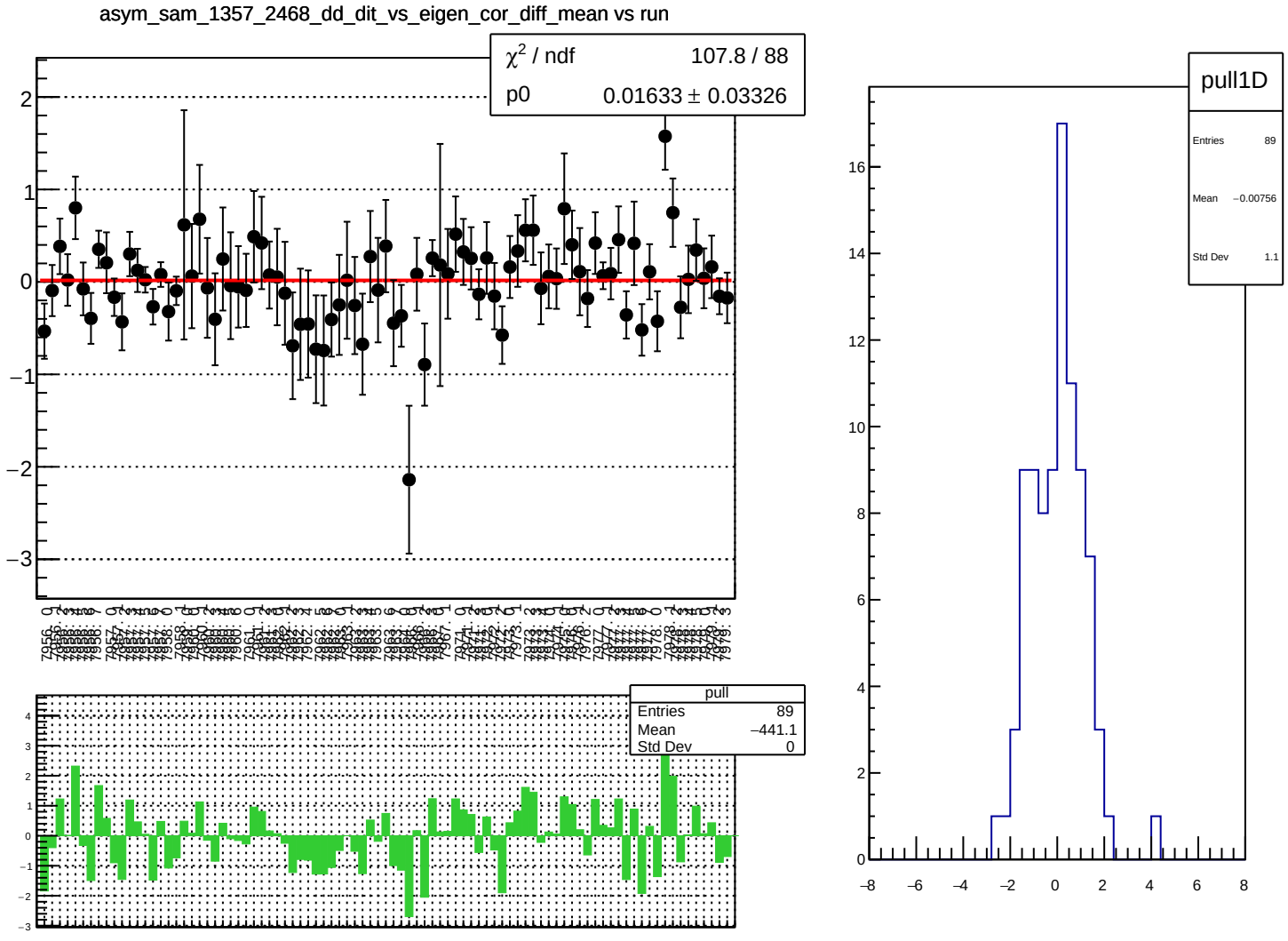

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.016e+04 / 88
p0 627.7 ± 0.4704
850
800
750
700
650
600
550
500
450

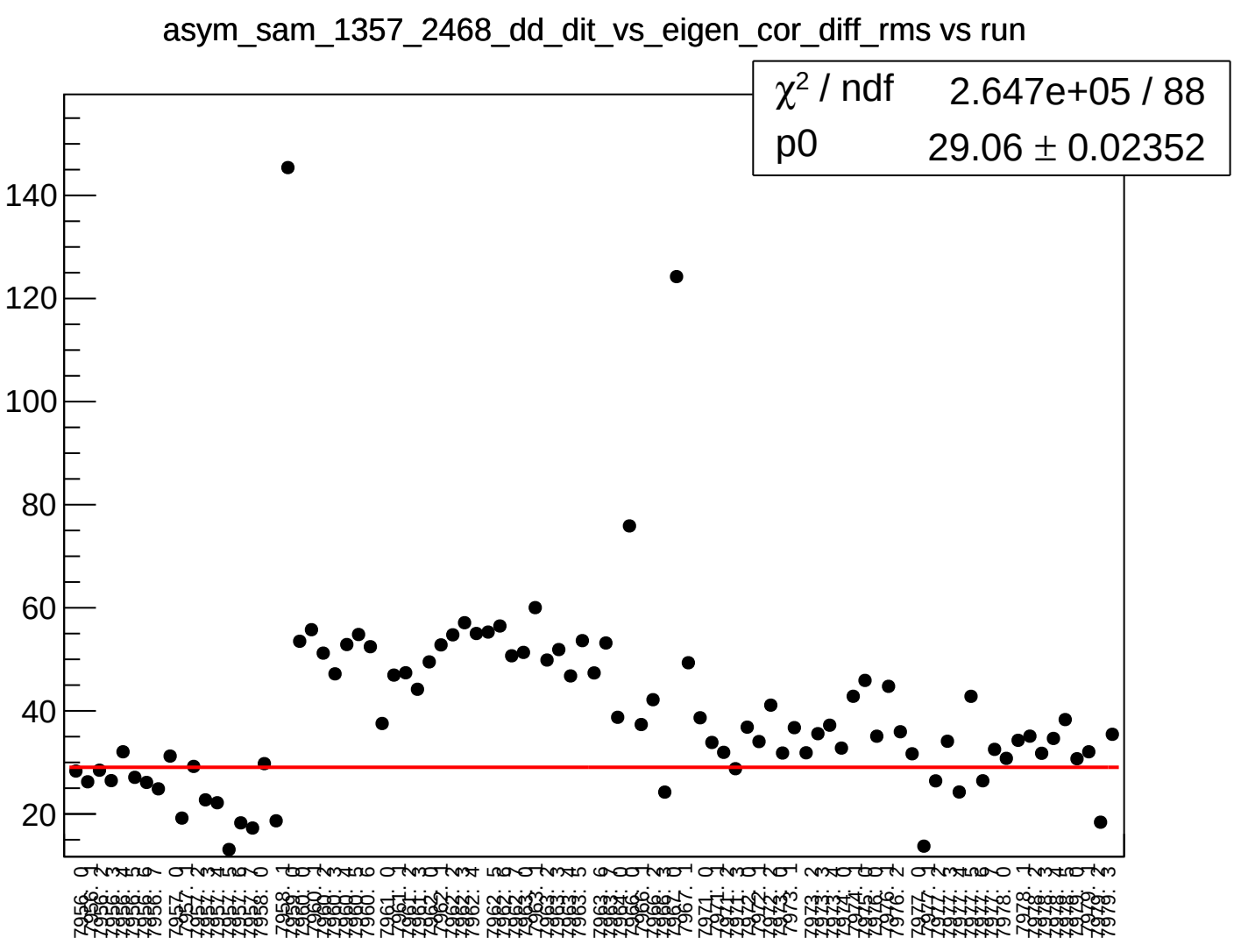

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 95.36 / 88
p0 2.718e−14 ± 1.002e−13
pull
Entries 89
Mean 46.57
Std Dev 0
pull1D
Entries 89
Mean −0.04387
Std Dev 1.034

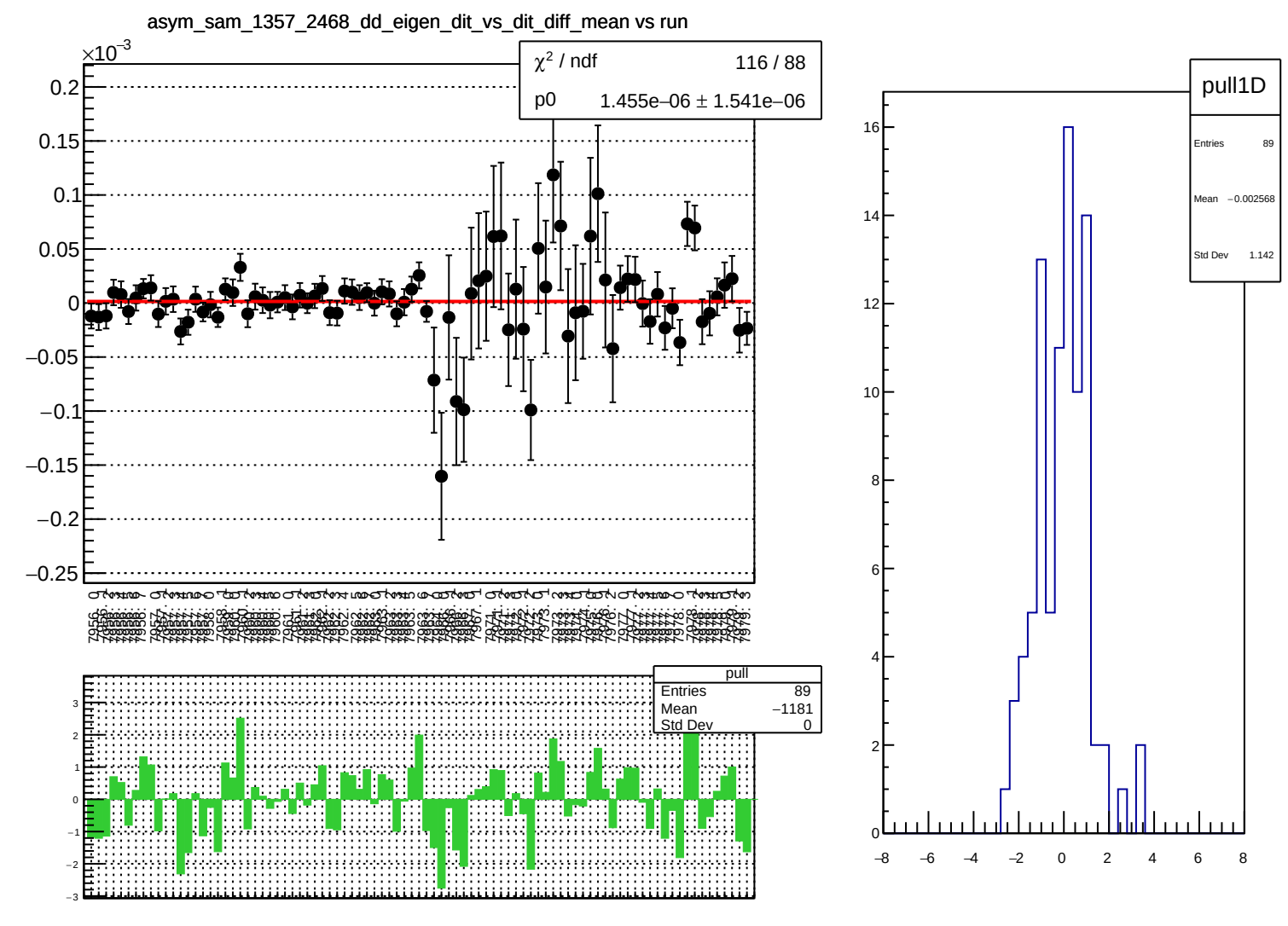

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.132e+06 / 88
p0 5.746e−11 ± 7.082e−14
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

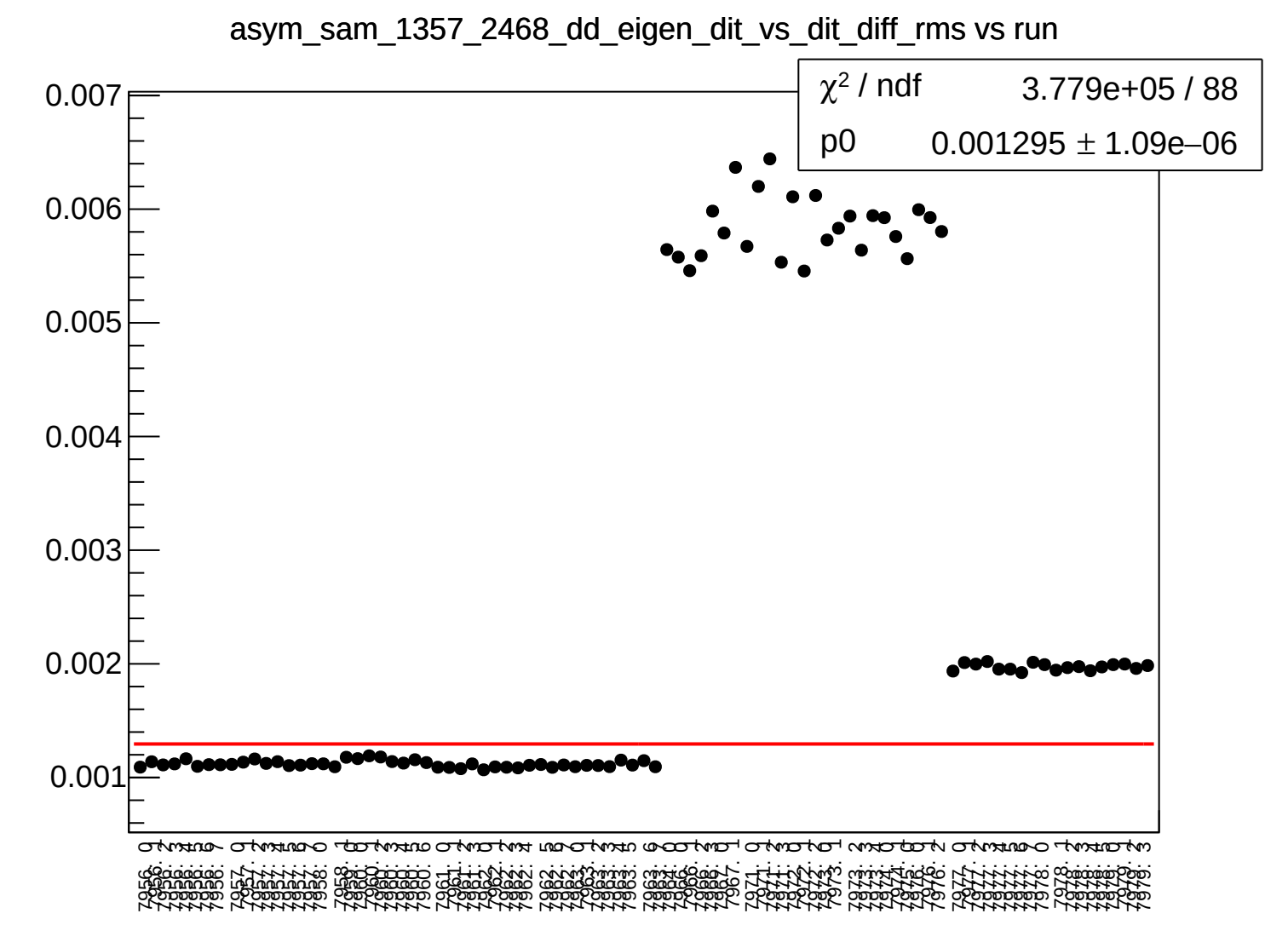

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 88
p0 0.01633 ± 0.03326
pull
Entries 89
Mean −441.1
Std Dev 0
pull1D
Entries 89
Mean −0.00756
Std Dev 1.1

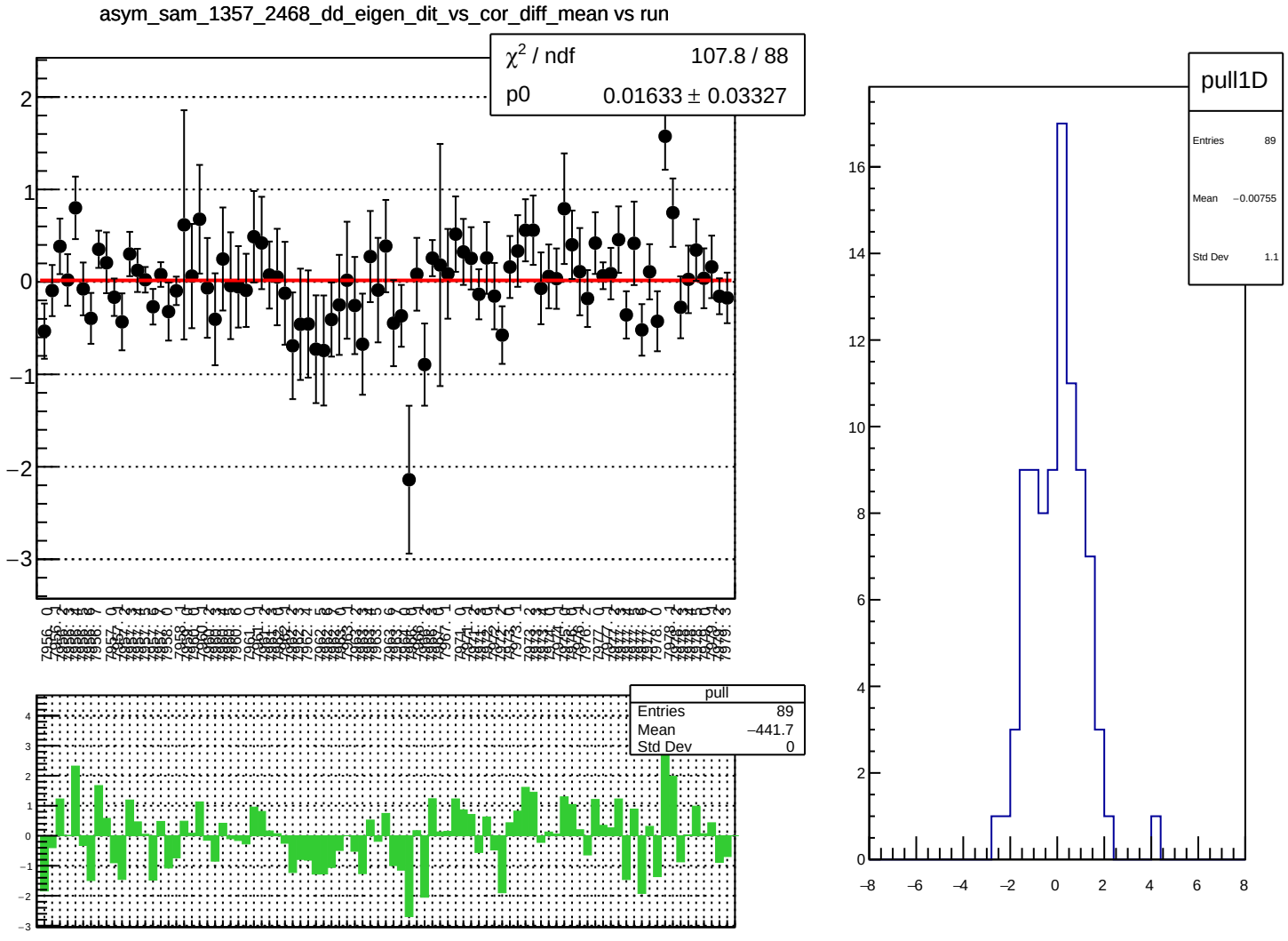

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.647e+05 / 88
p0 29.06 ± 0.02352
140
120
100
80
60
40
20

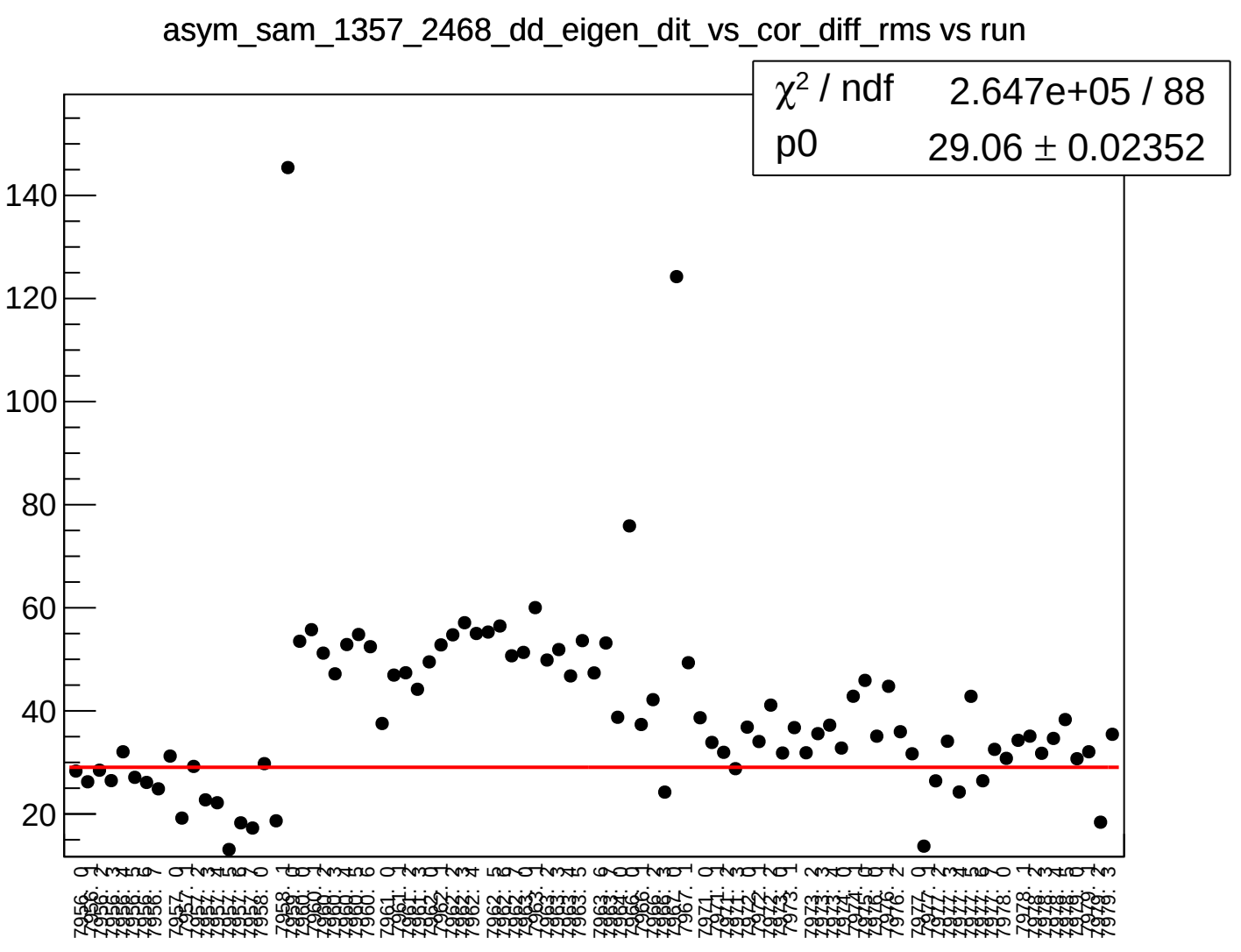

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 88
p0 0.01633 ± 0.03326
pull
Entries 89
Mean −441.1
Std Dev 0
pull1D
Entries 89
Mean −0.00756
Std Dev 1.1

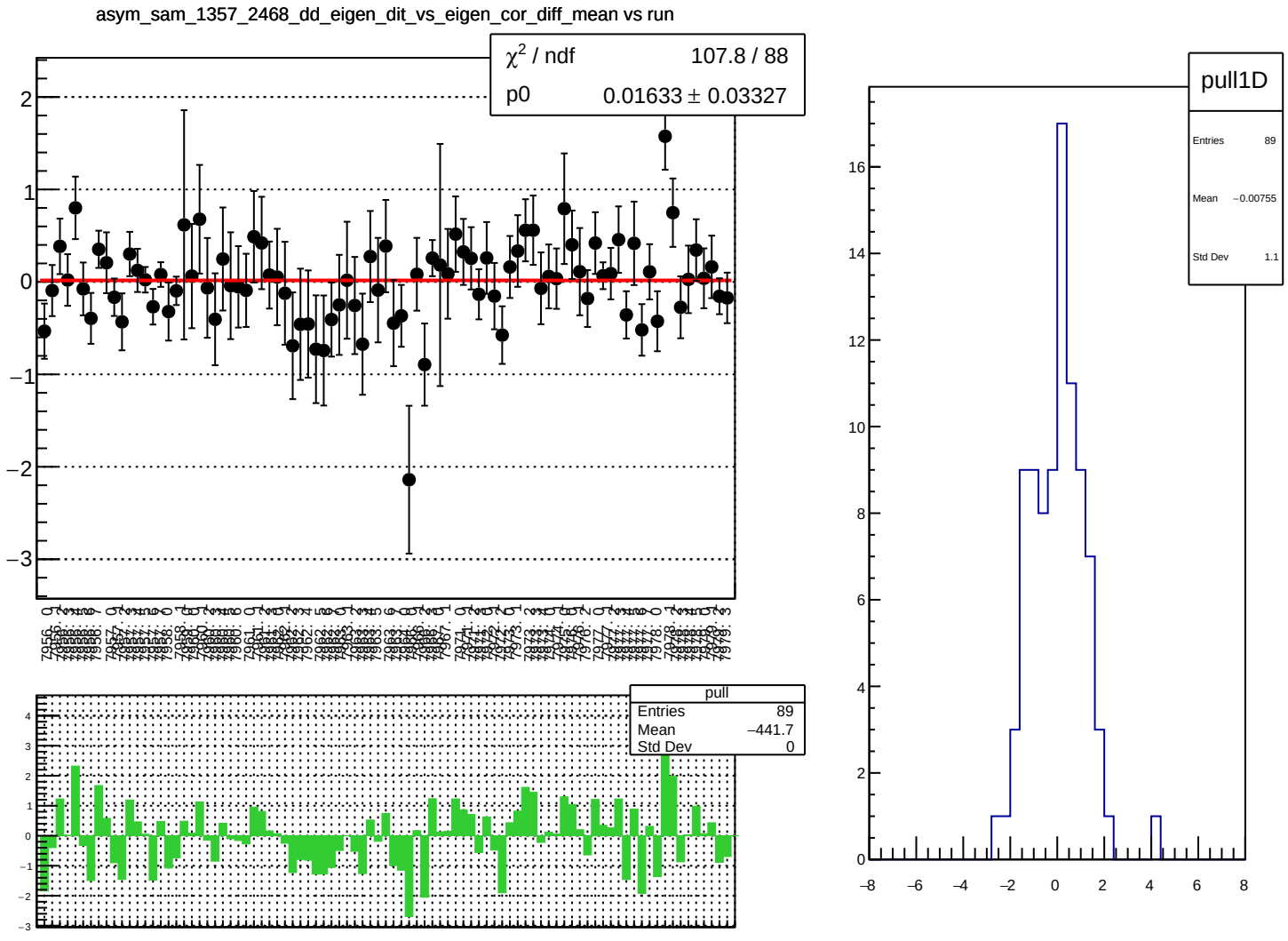

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.647e+05 / 88
p0 29.06 ± 0.02352
140
120
100
80
60
40
20

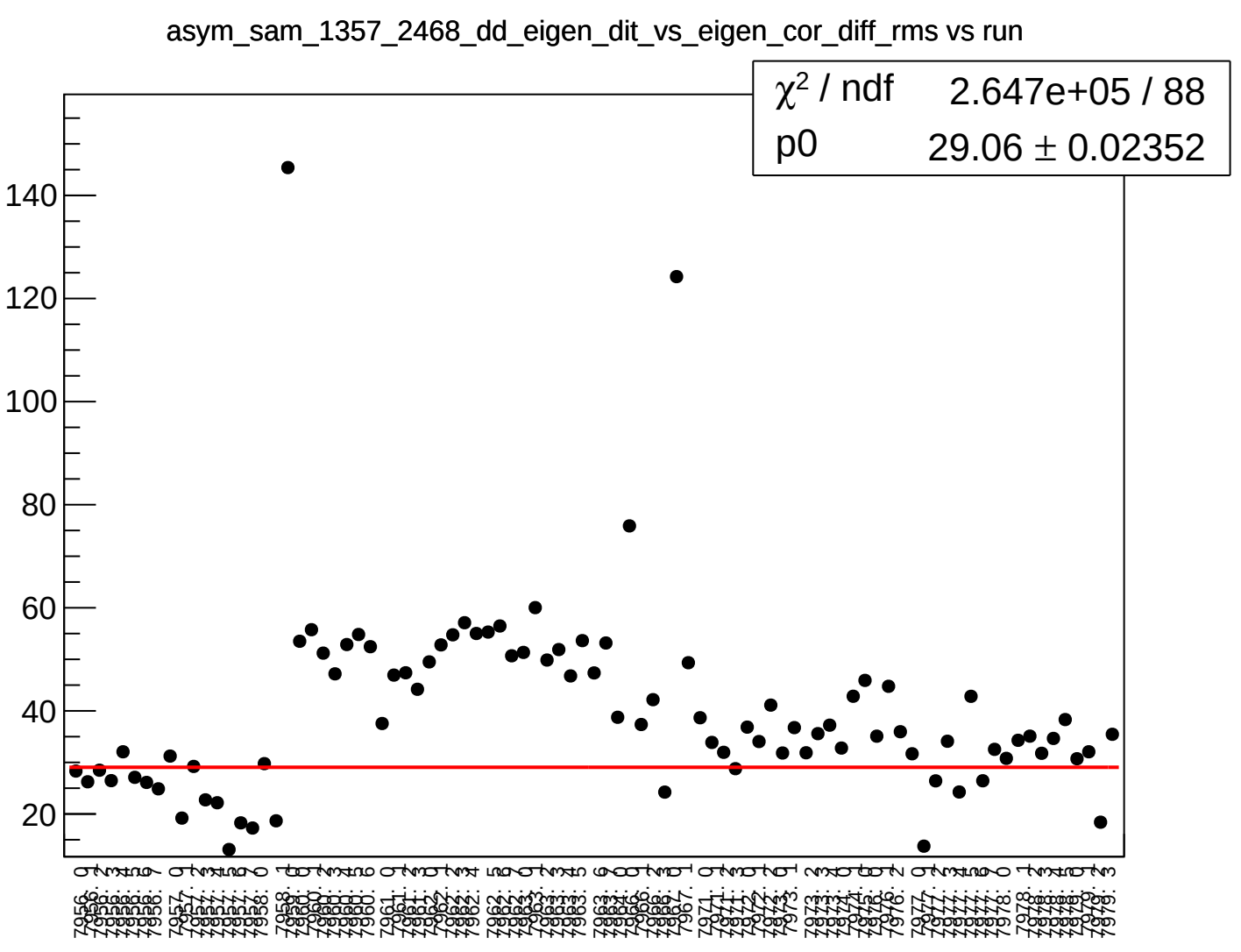

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116 / 88
p0 1.455e−06 ± 1.541e−06
pull
Entries 89
Mean −1181
Std Dev 0
pull1D
Entries 89
Mean −0.002568
Std Dev 1.142

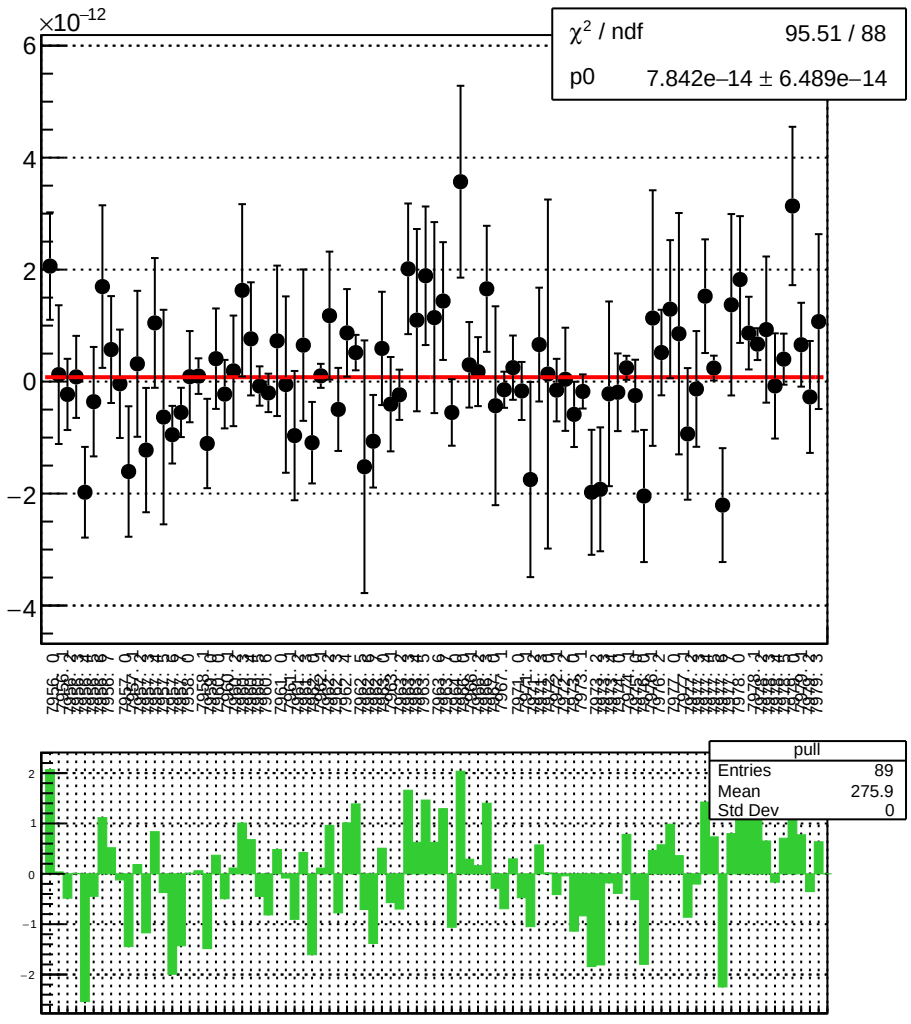

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.779e+05 / 88
p0 0.001295 ± 1.09e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

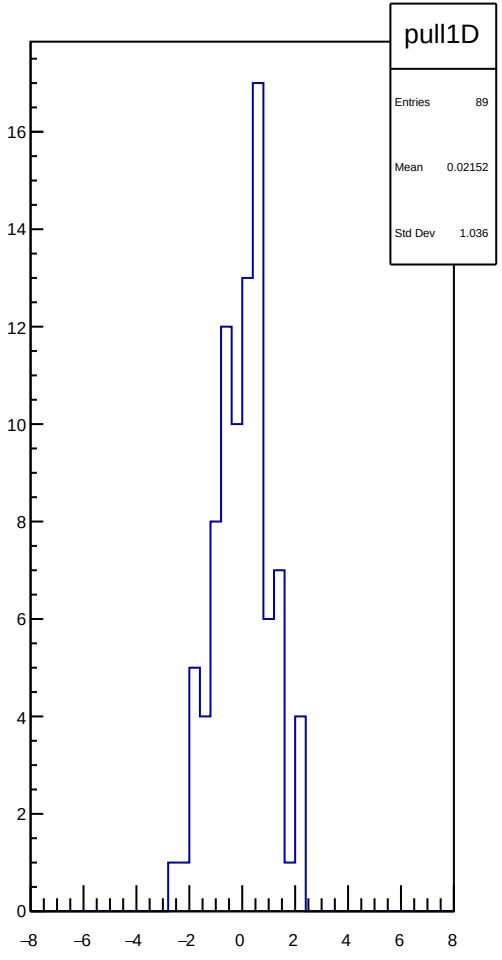

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 88
p0 0.01633 ± 0.03327
pull
Entries 89
Mean −441.7
Std Dev 0
pull1D
Entries 89
Mean −0.00755
Std Dev 1.1

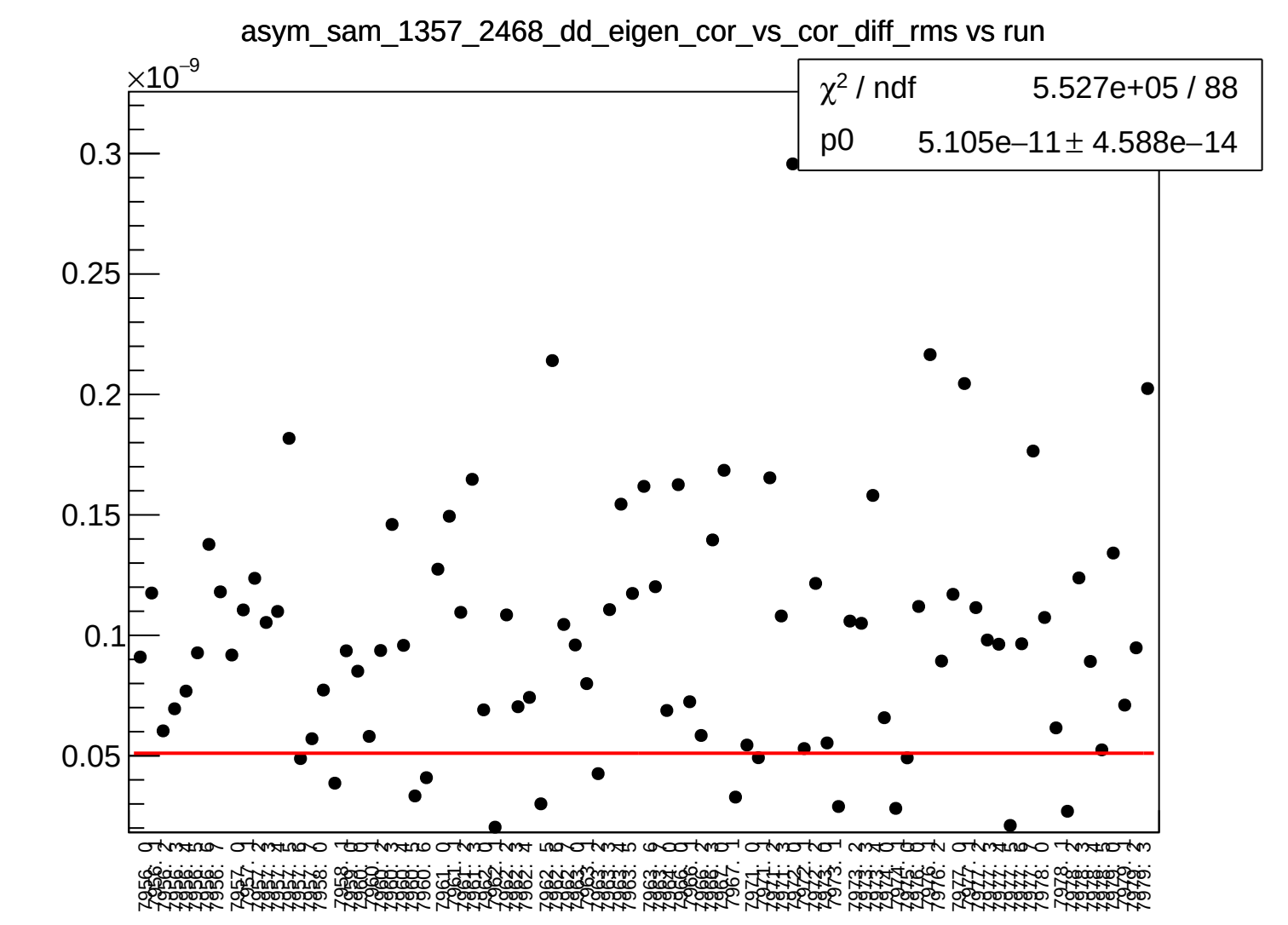

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.647e+05 / 88
p0 29.06 ± 0.02352
140
120
100
80
60
40
20

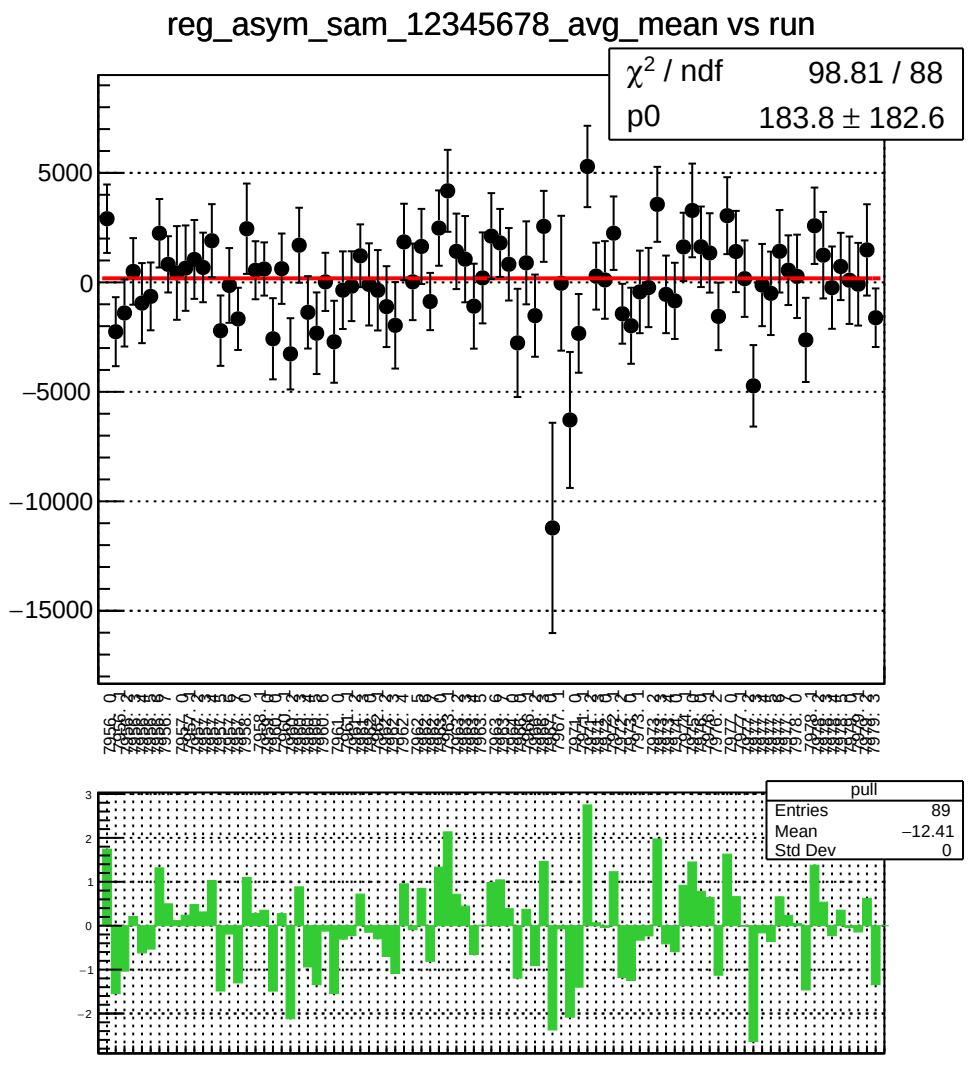

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 88
p0 0.01633 ± 0.03327
pull
Entries 89
Mean −441.7
Std Dev 0
pull1D
Entries 89
Mean −0.00755
Std Dev 1.1

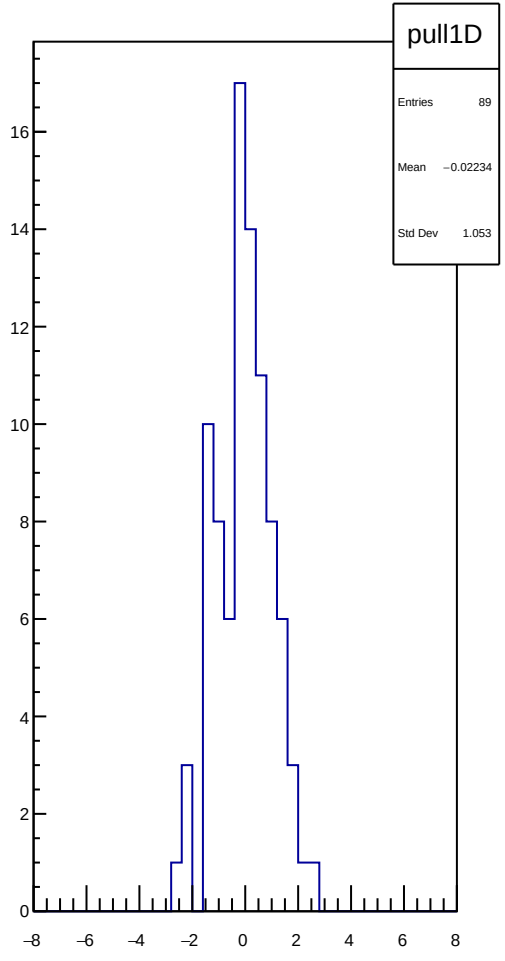

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.647e+05 / 88
p0 29.06 ± 0.02352
140
120
100
80
60
40
20

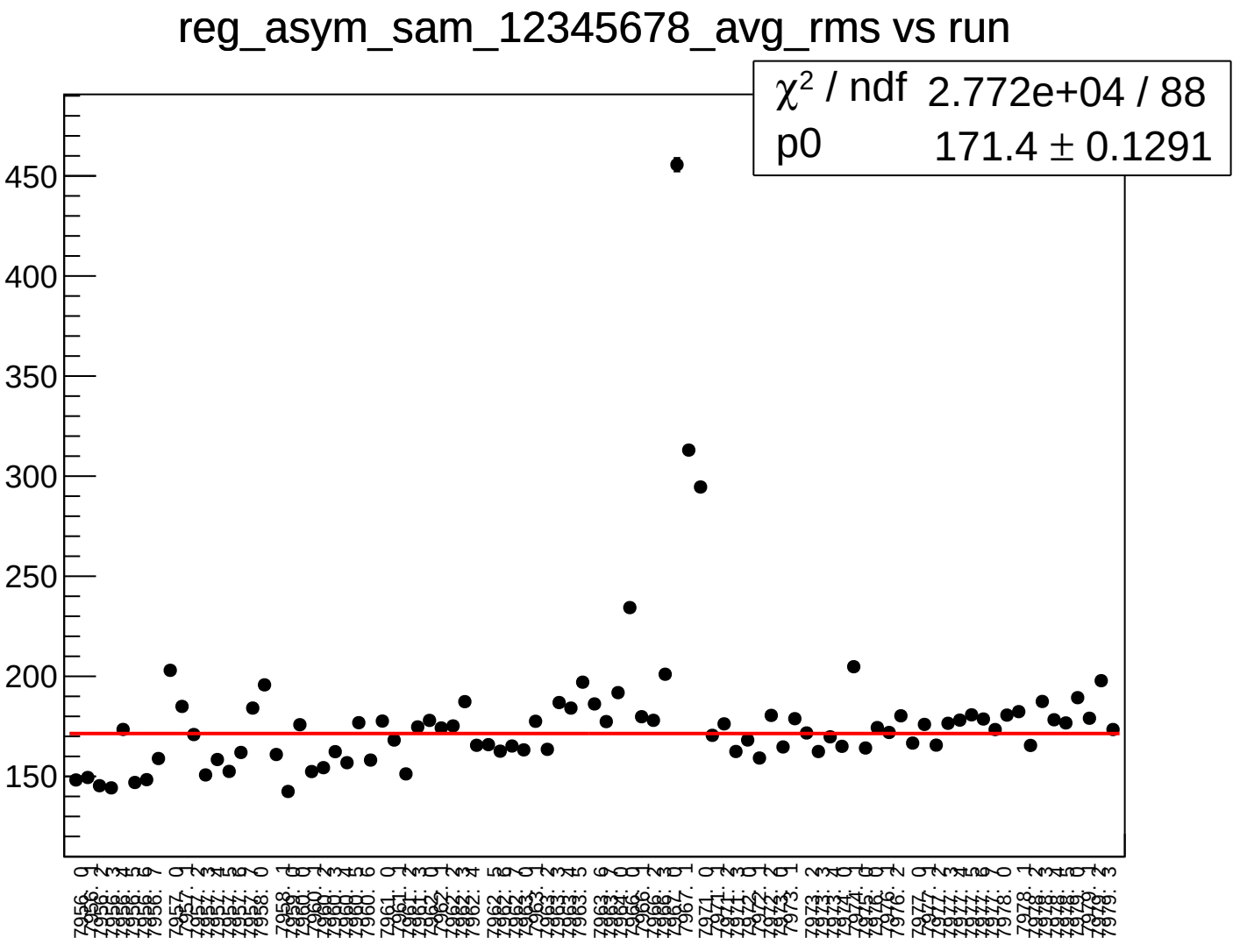

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.51 / 88
p0 7.842e−14 ± 6.489e−14
pull
Entries 89
Mean 275.9
Std Dev 0

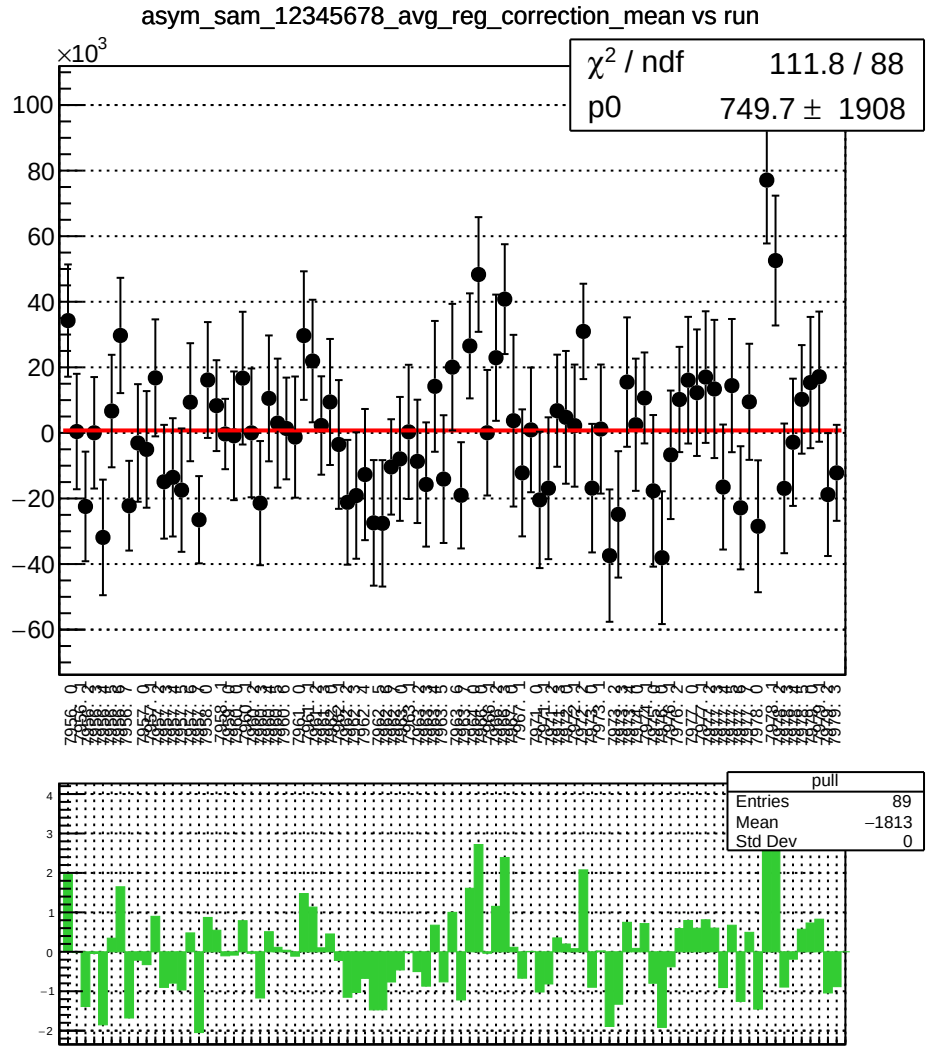

pull1D
Entries 89
Mean 0.02152
Std Dev 1.036

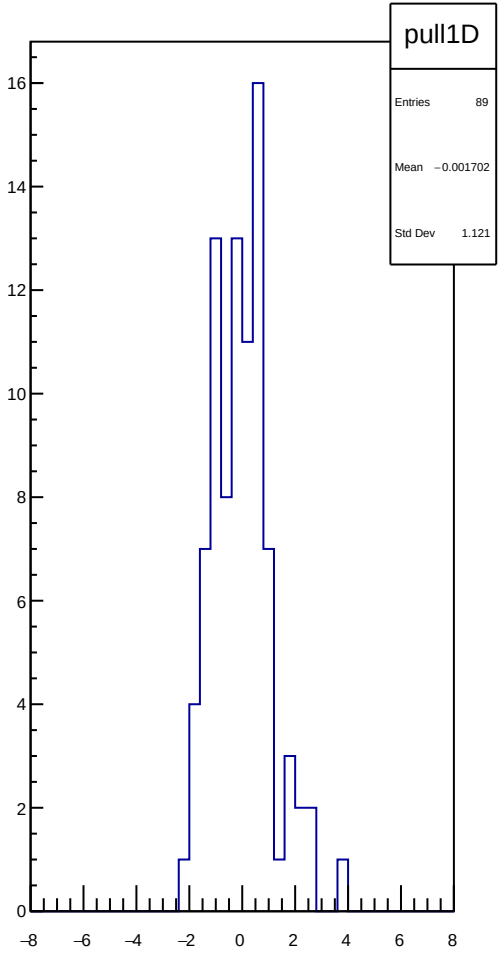

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.527e+05 / 88
p0 5.105e−11 ± 4.588e−14
0.3
0.25
0.2
0.15
0.1
0.05

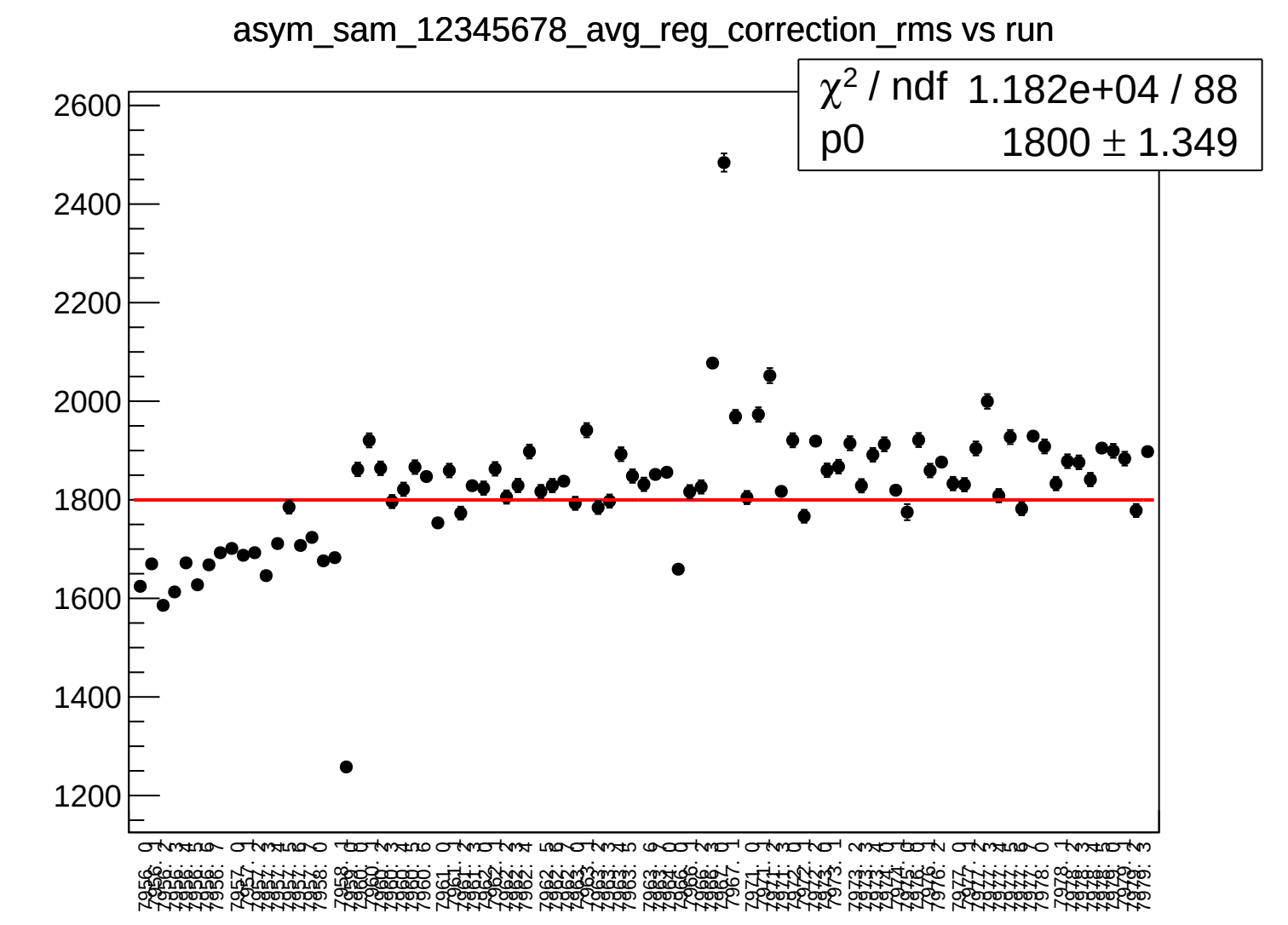

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 98.81 / 88
p0 183.8 ± 182.6
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −12.41
Std Dev 0
3
2
1
0
−1
−2

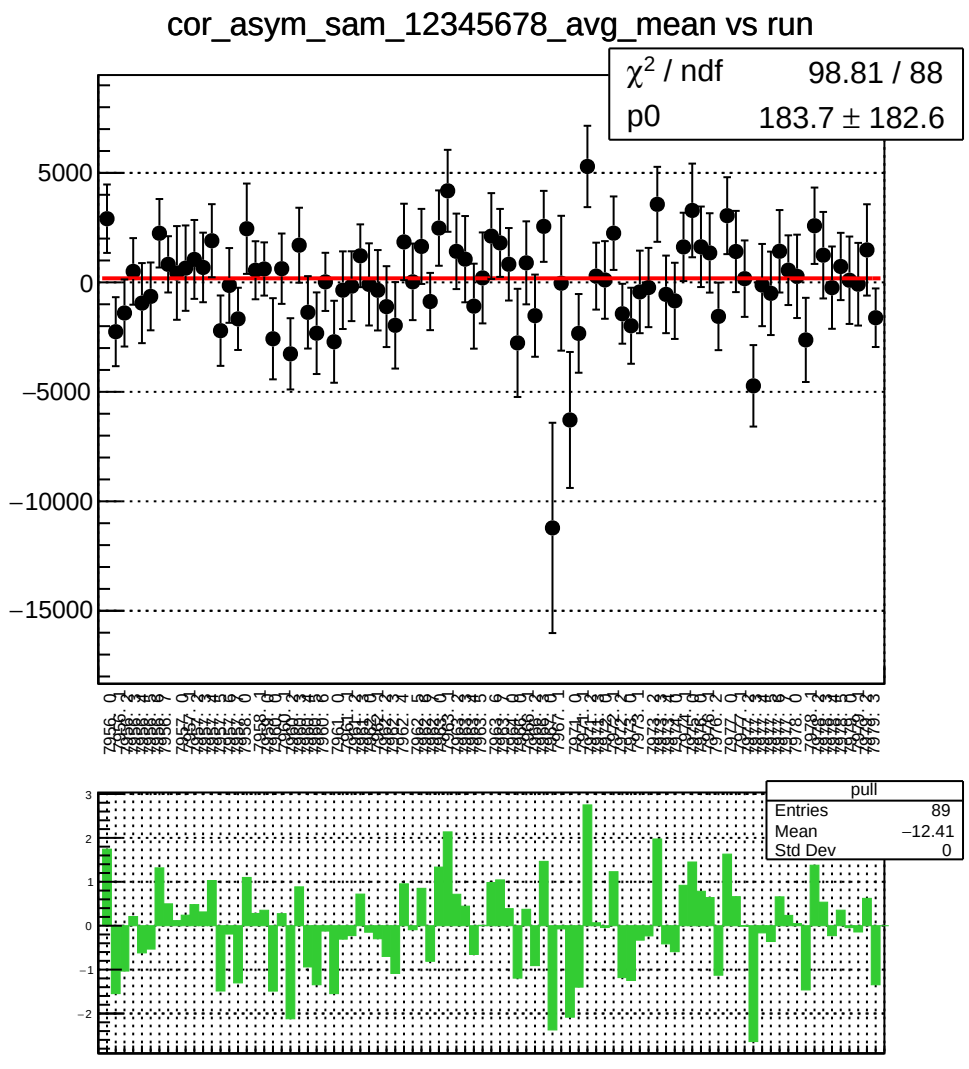

pull1D
Entries 89
Mean −0.02234
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

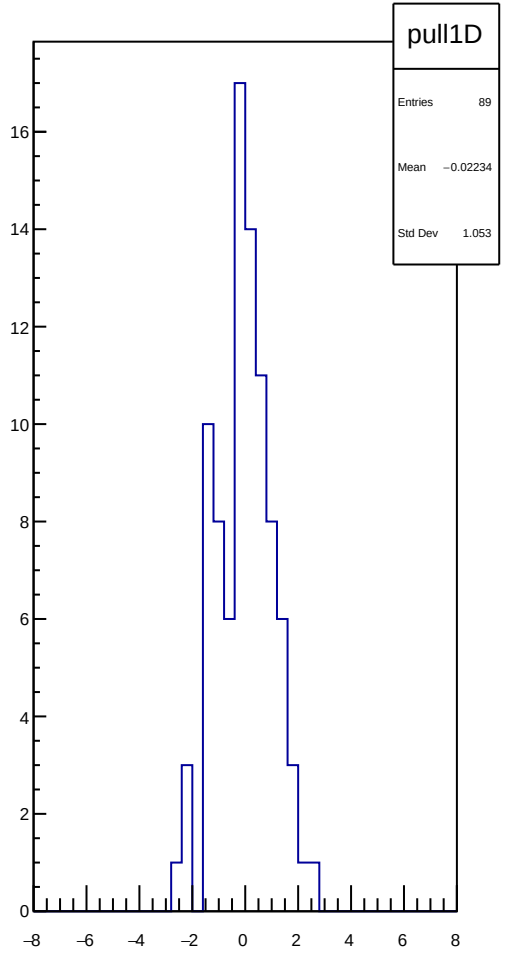

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.772e+04 / 88
p0 171.4 ± 0.1291
450
400
350
300
250
200
150

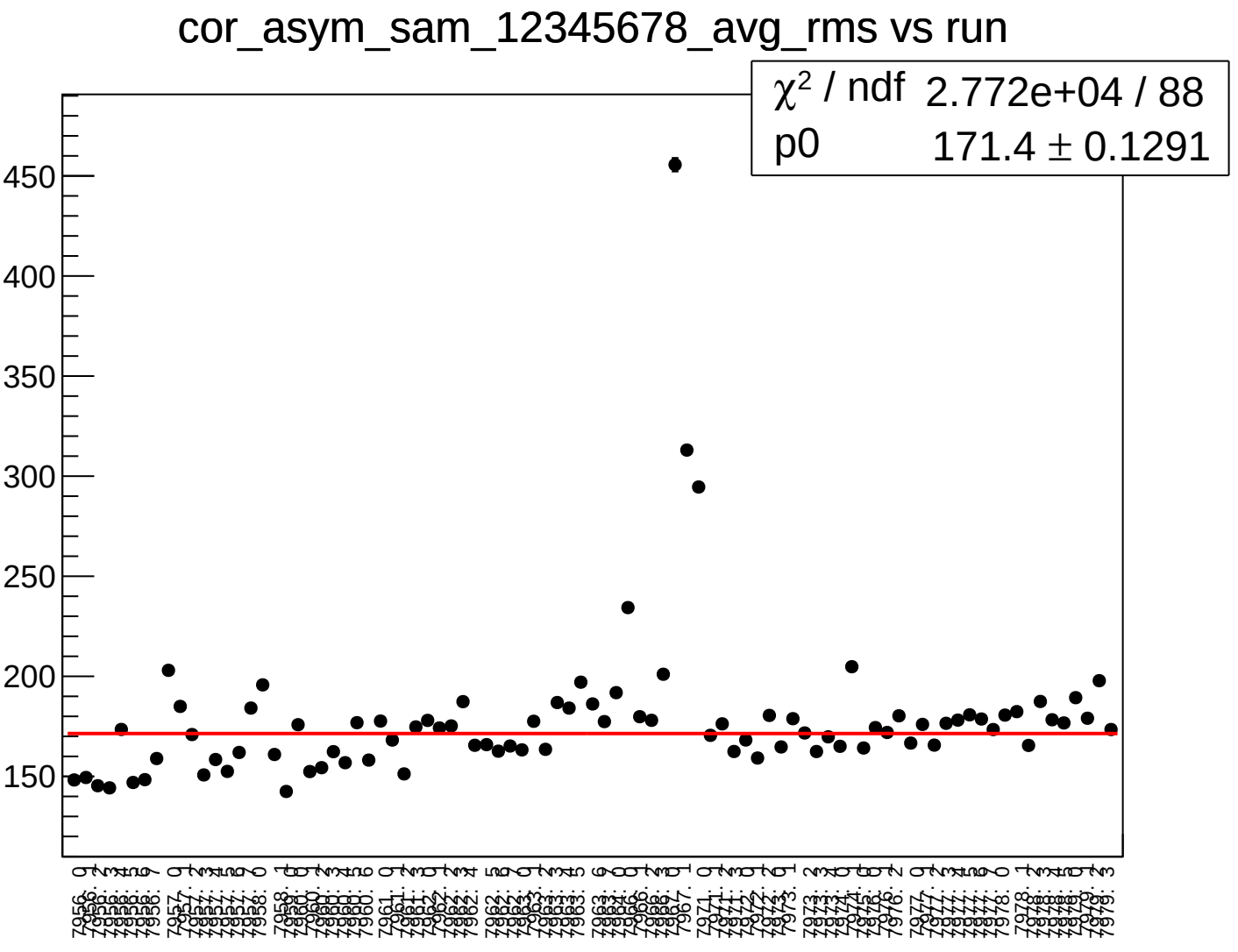

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 111.8 / 88
p0 749.7 ± 1908
pull
Entries 89
Mean −1813
Std Dev 0

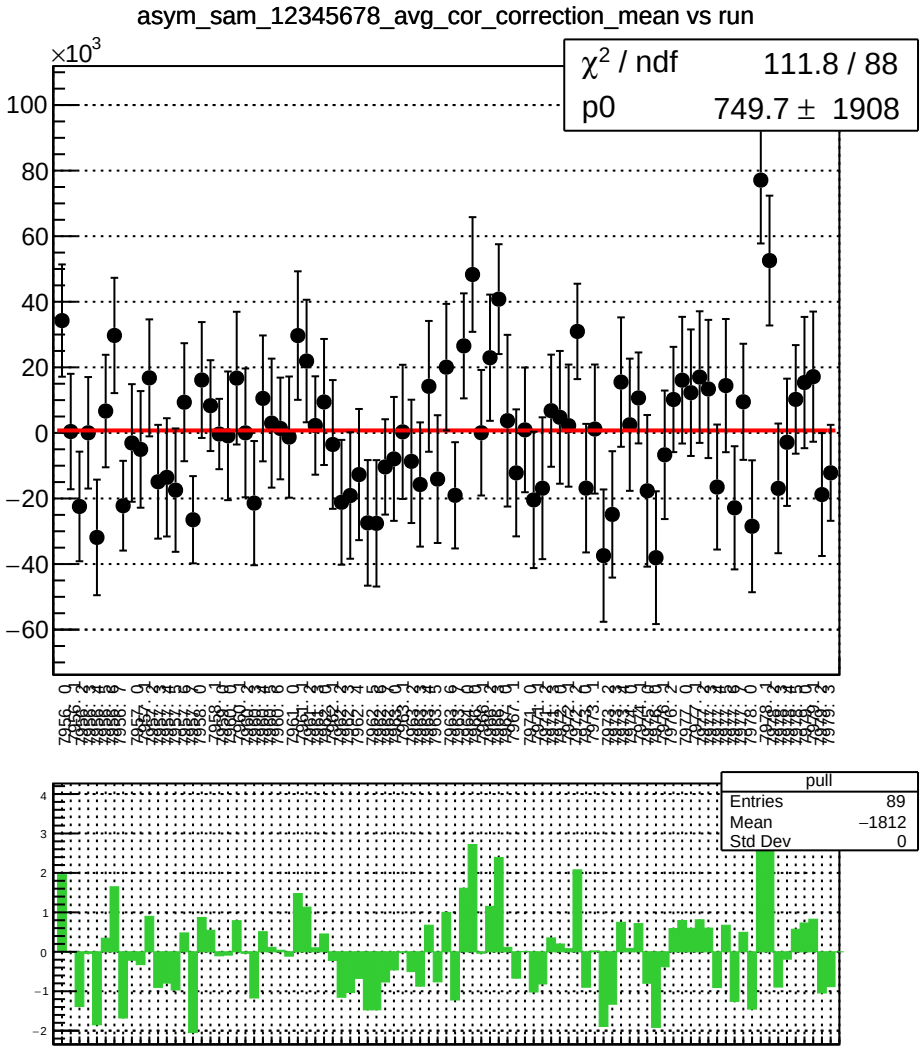

pull1D
Entries 89
Mean −0.001702
Std Dev 1.121

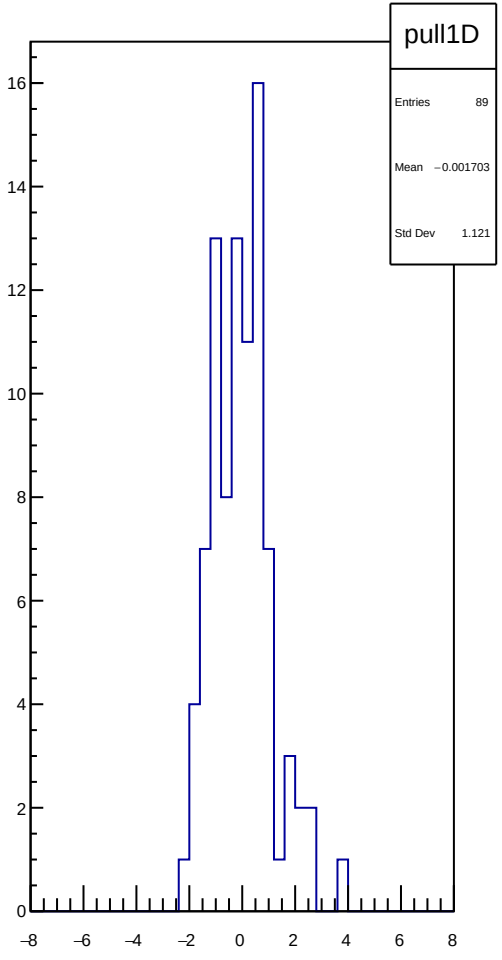

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.182e+04 / 88
p0 1800 ± 1.349
2600
2400
2200
2000
1800
1600
1400
1200

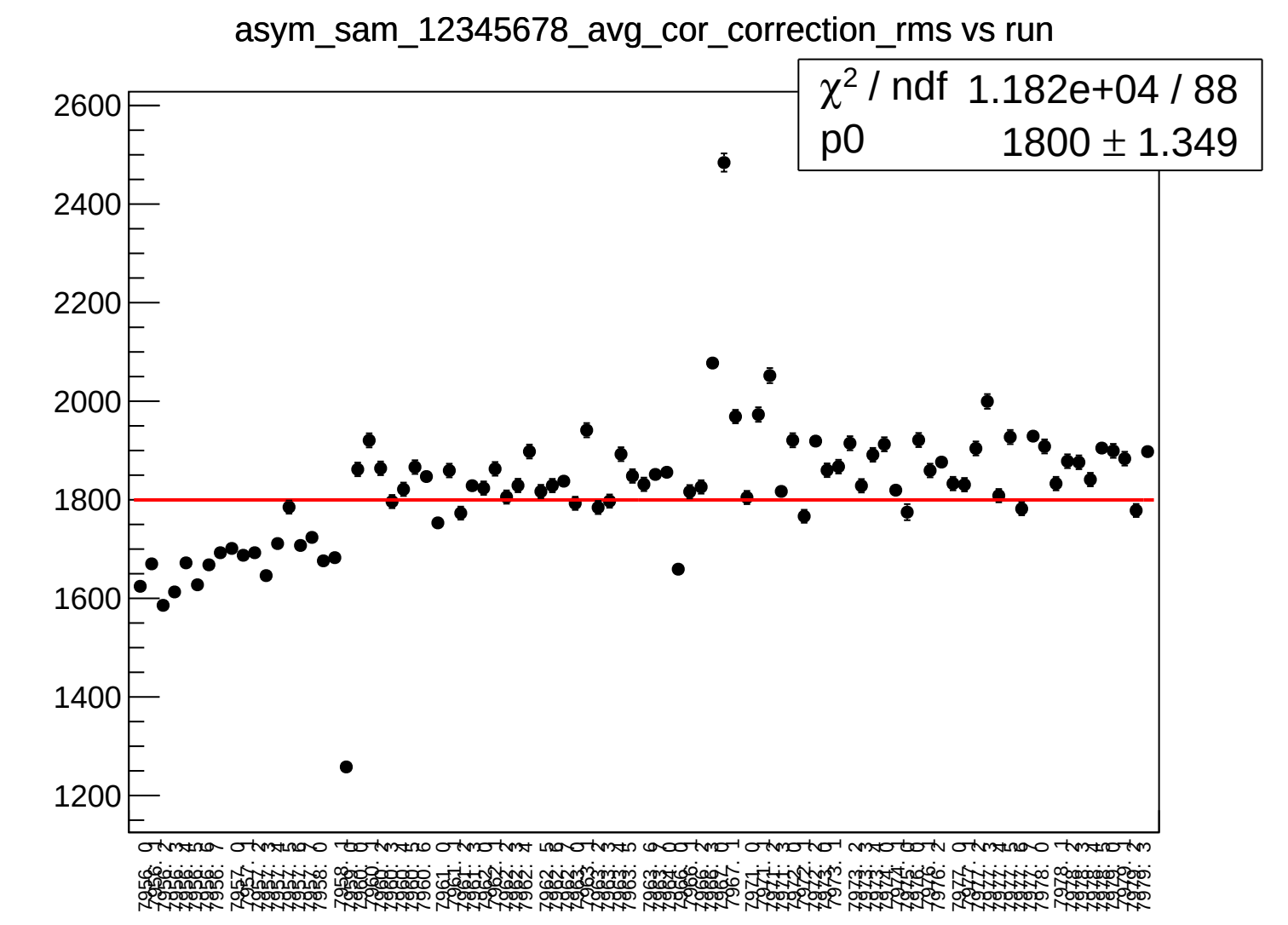

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 98.81 / 88
p0 183.7 ± 182.6
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −12.41
Std Dev 0
3
2
1
0
−1
−2

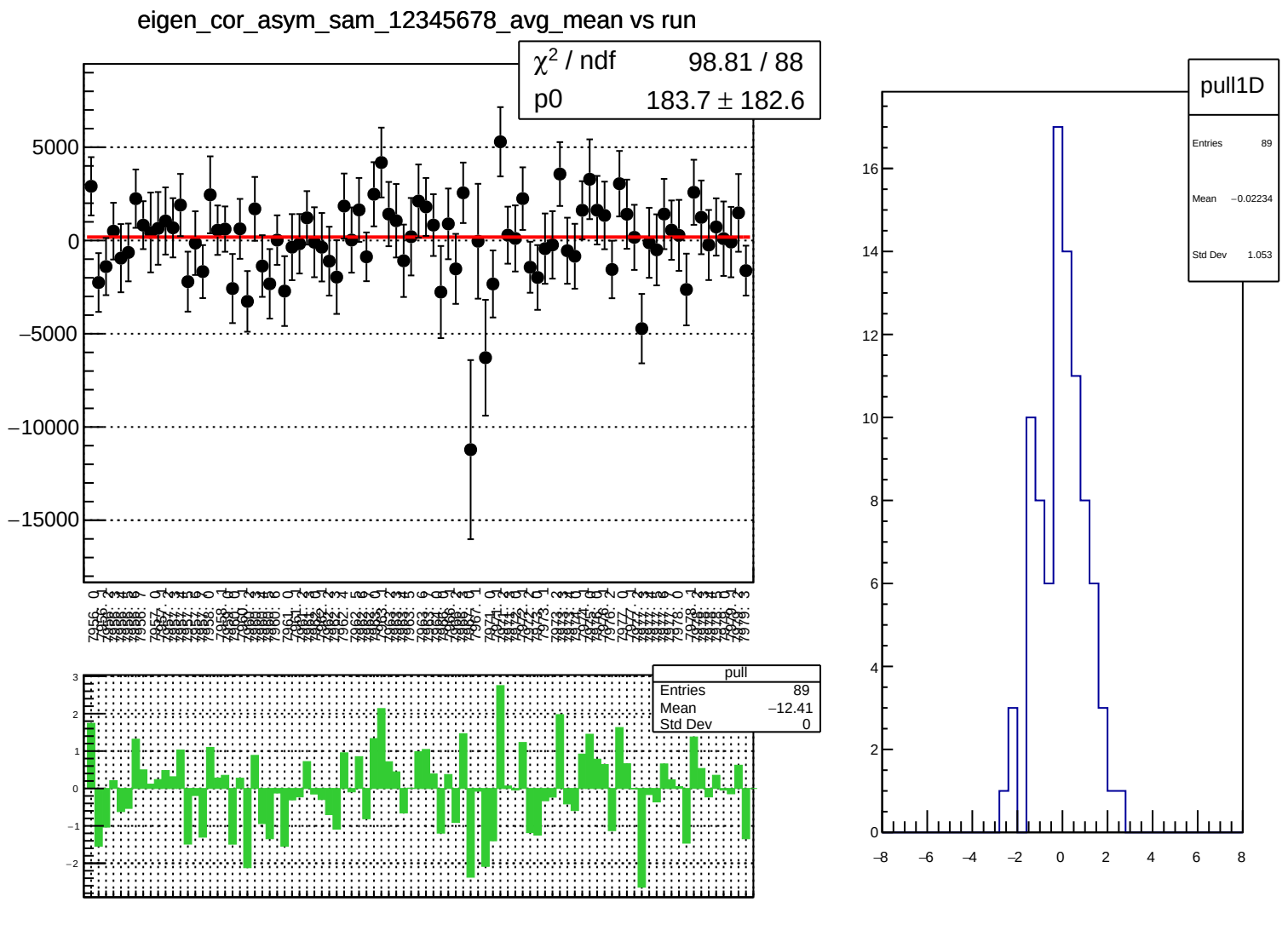

pull1D
Entries 89
Mean −0.02234
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

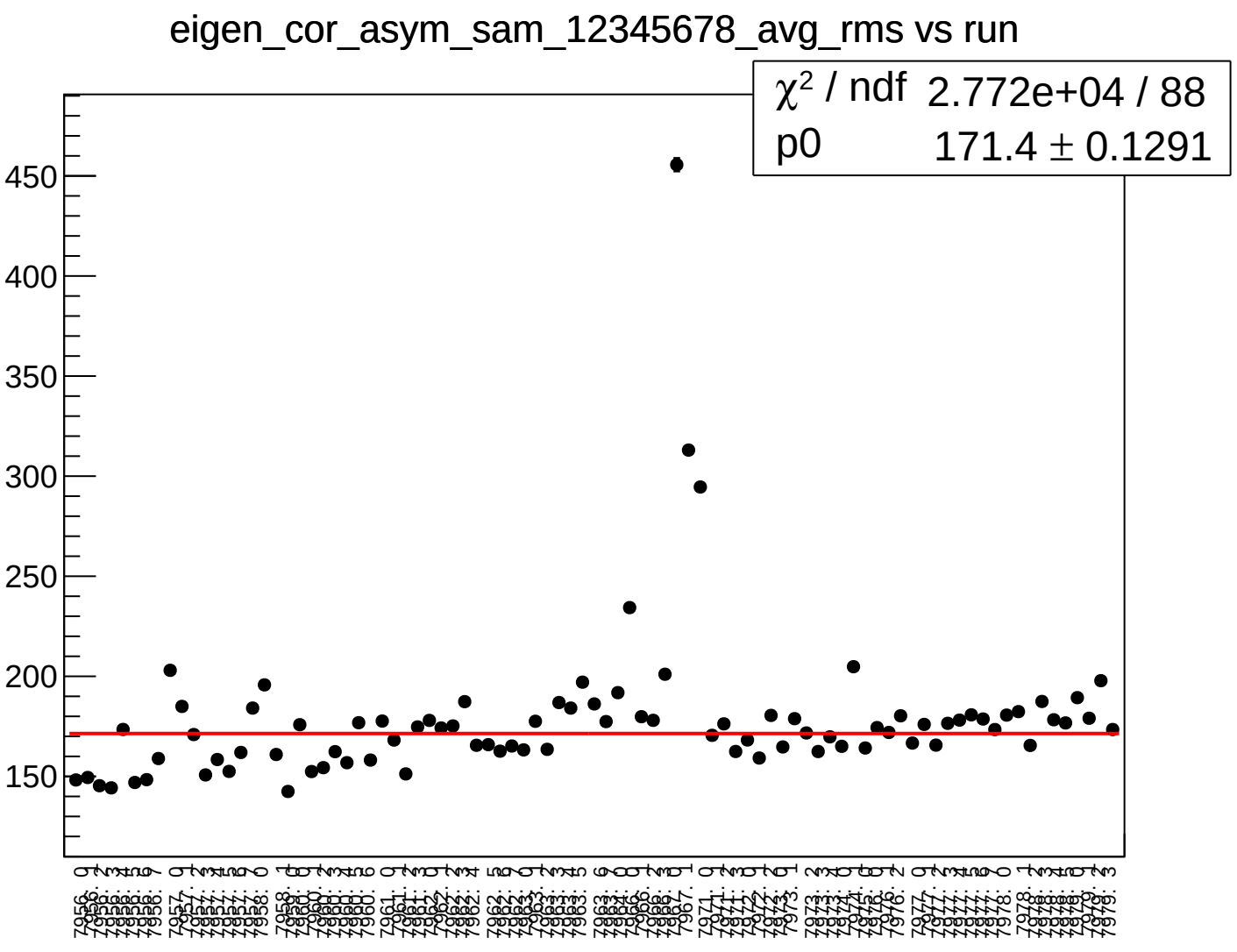

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.772e+04 / 88
p0 171.4 ± 0.1291
450
400
350
300
250
200
150

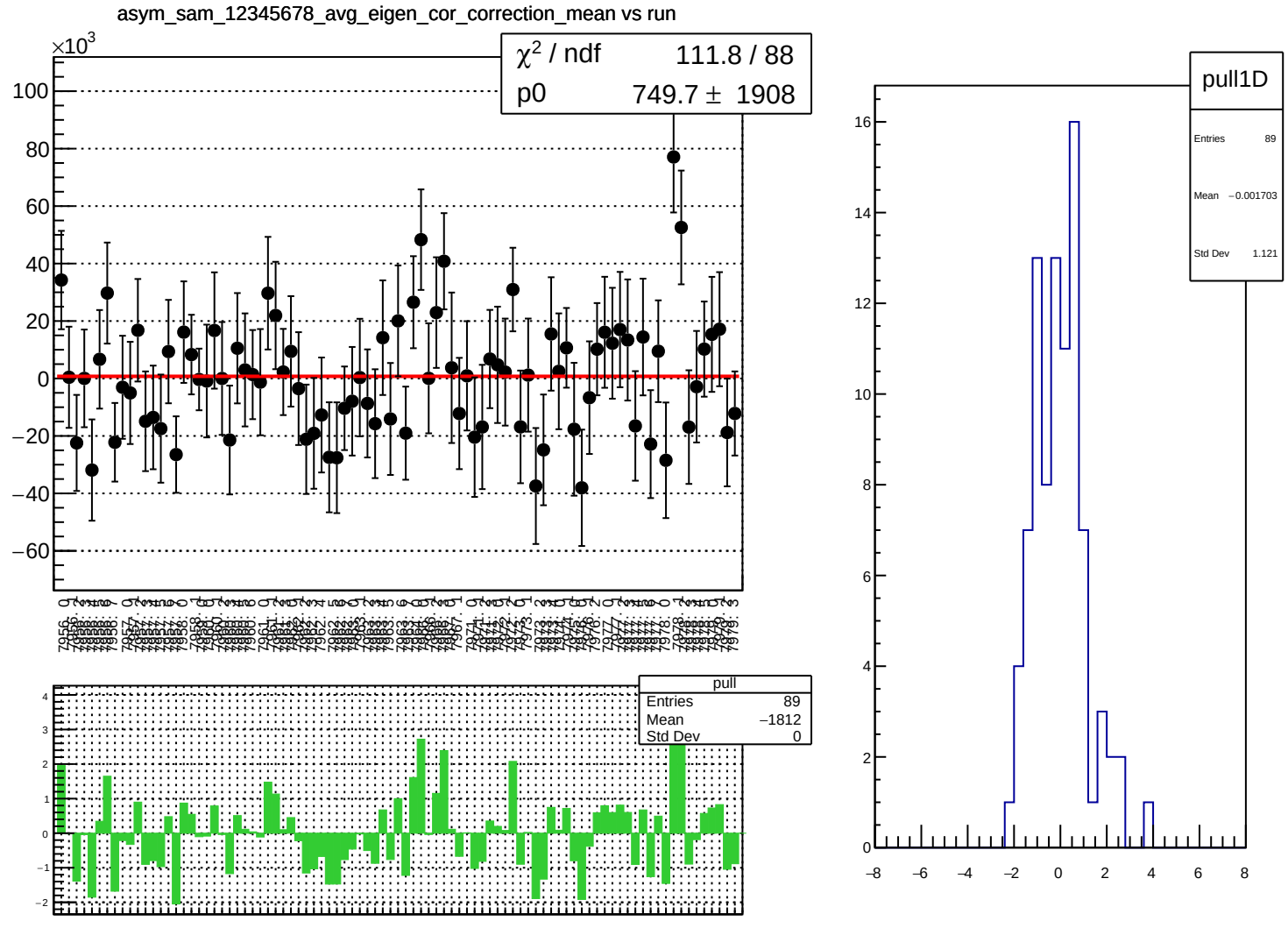

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 111.8 / 88
p0 749.7 ± 1908
pull
Entries 89
Mean −1812
Std Dev 0

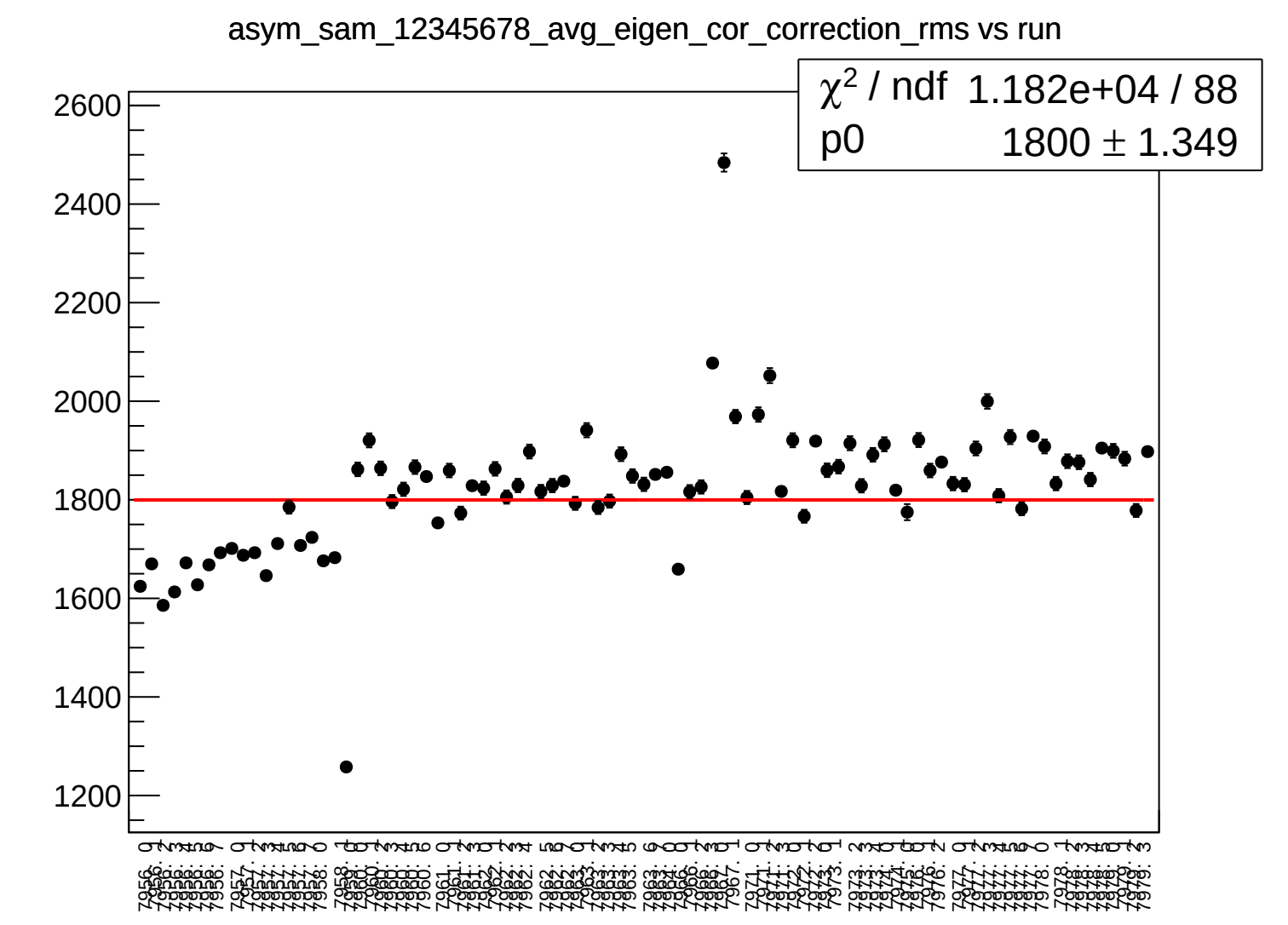

pull1D
Entries 89
Mean −0.001703
Std Dev 1.121

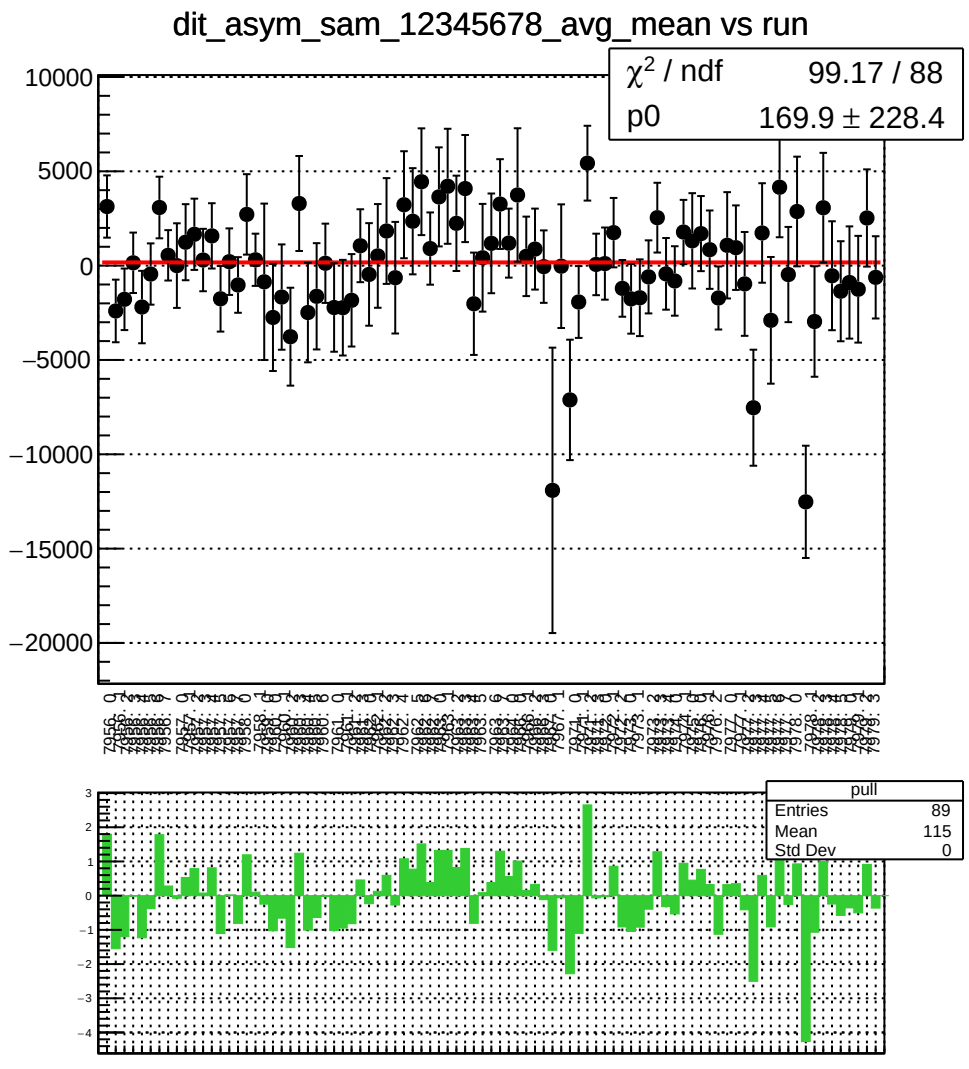

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.182e+04 / 88
p0 1800 ± 1.349
2600
2400
2200
2000
1800
1600
1400
1200

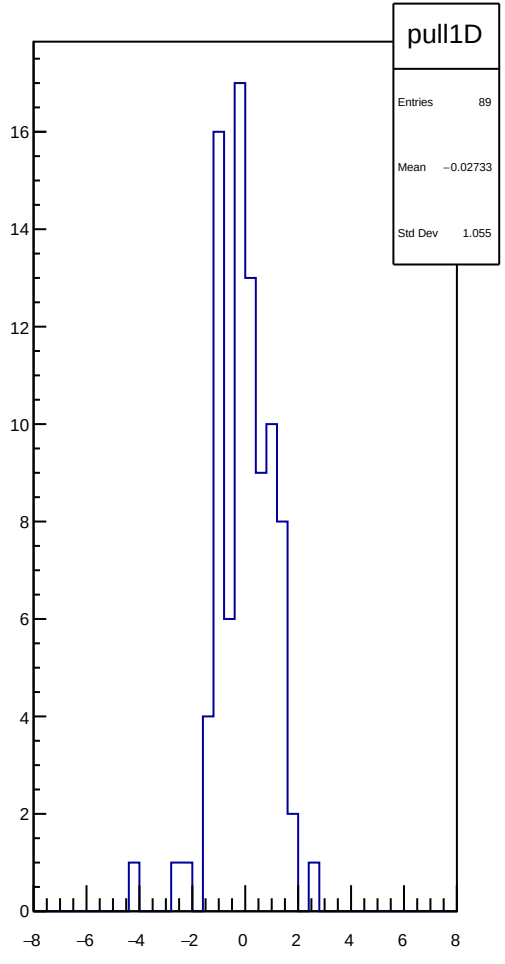

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 98.81 / 88
p0 183.7 ± 182.6
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −12.41
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02234
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

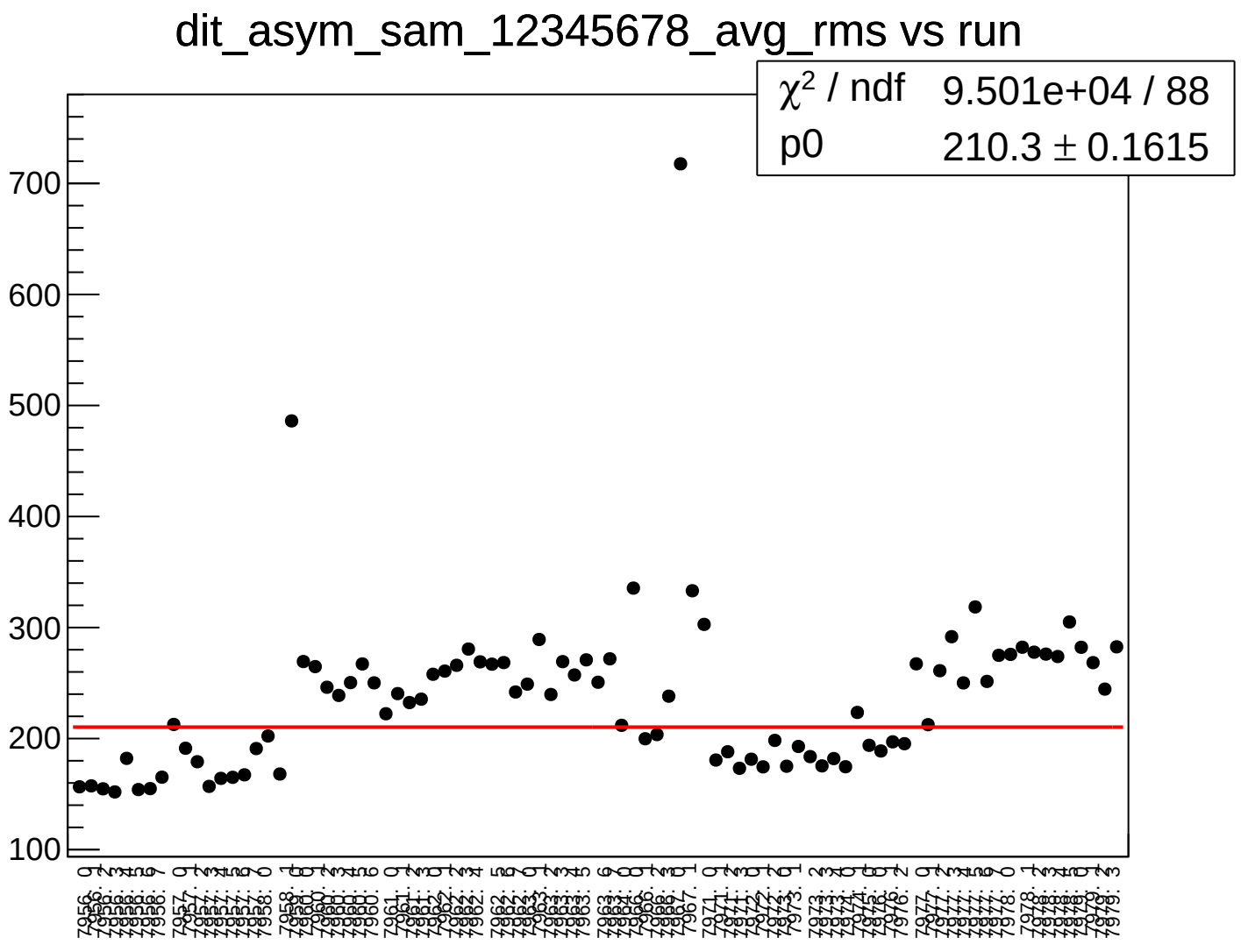

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.772e+04 / 88
p0 171.4 ± 0.1291
450
400
350
300
250
200
150

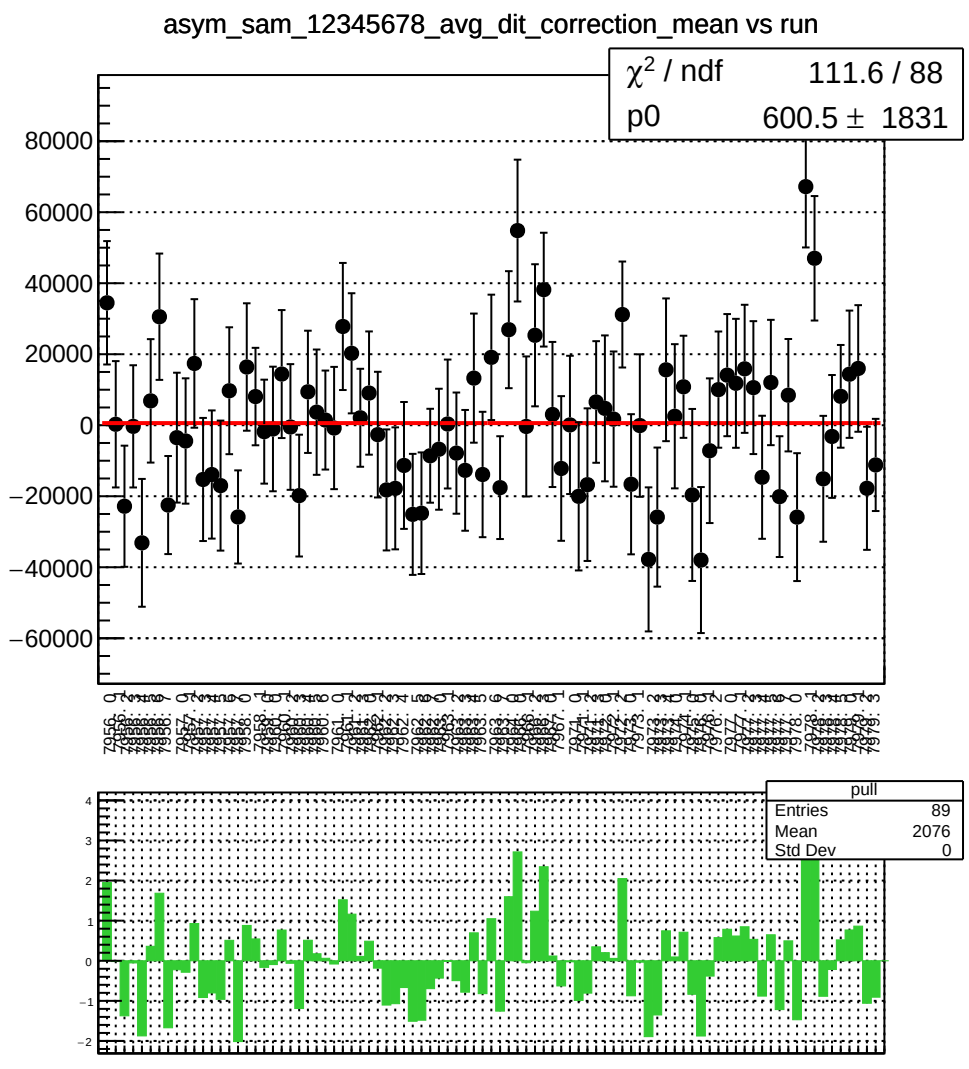

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 111.8 / 88
p0 749.7 ± 1908
pull
Entries 89
Mean −1812
Std Dev 0
pull1D
Entries 89
Mean −0.001703
Std Dev 1.121

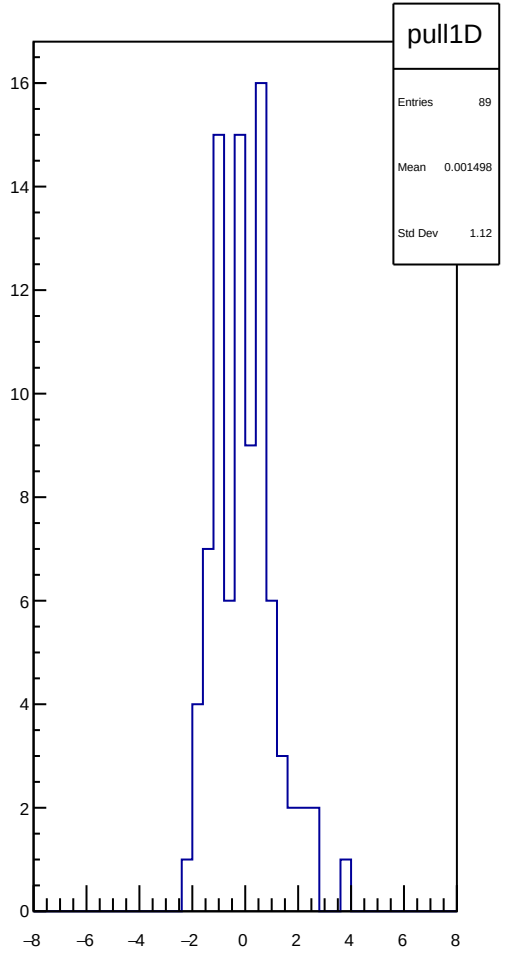

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.182e+04 / 88
p0 1800 ± 1.349
2600
2400
2200
2000
1800
1600
1400
1200

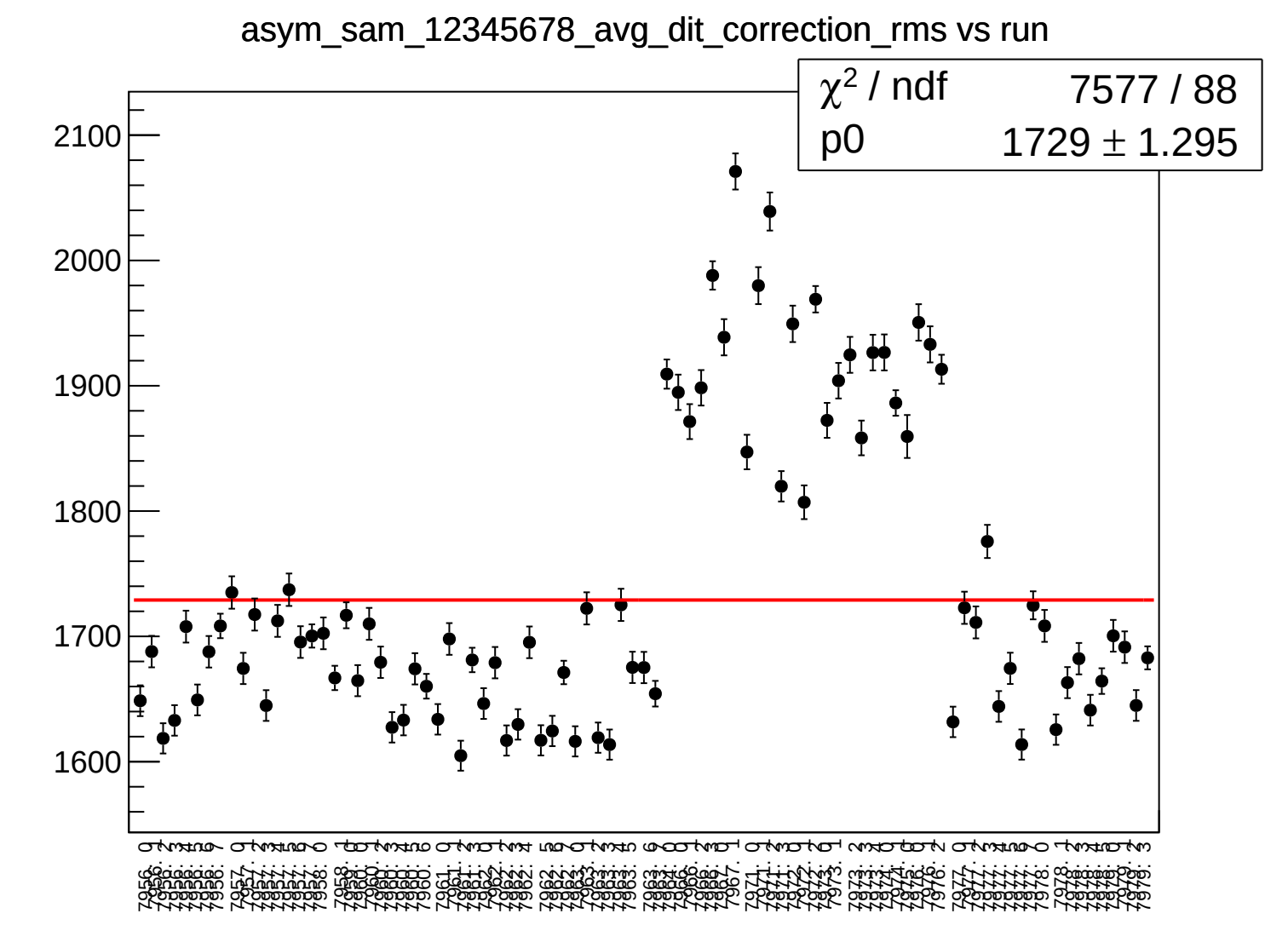

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 99.17 / 88
p0 169.9 ± 228.4
pull
Entries 89
Mean 115
Std Dev 0

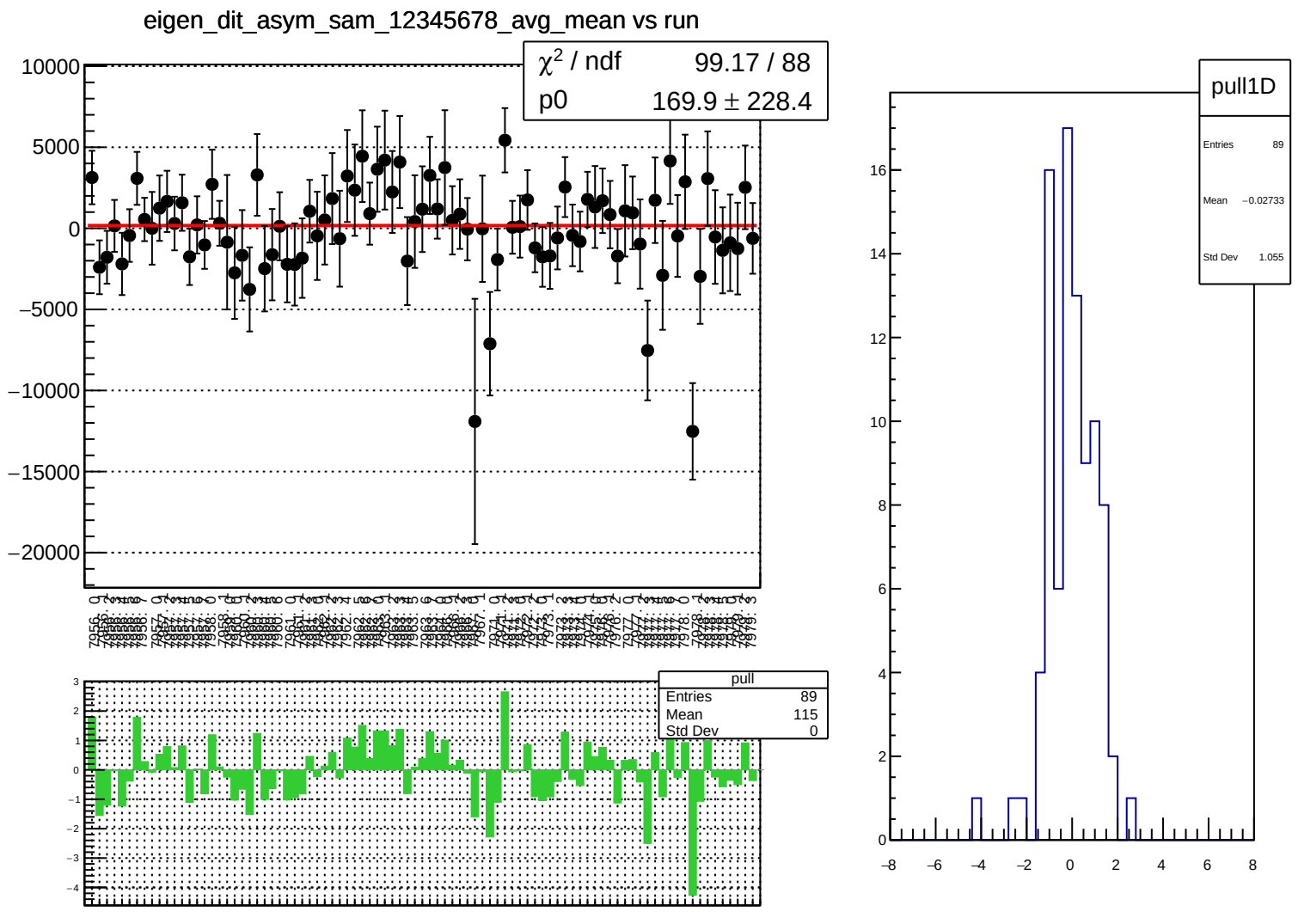

pull1D
Entries 89
Mean −0.02733
Std Dev 1.055

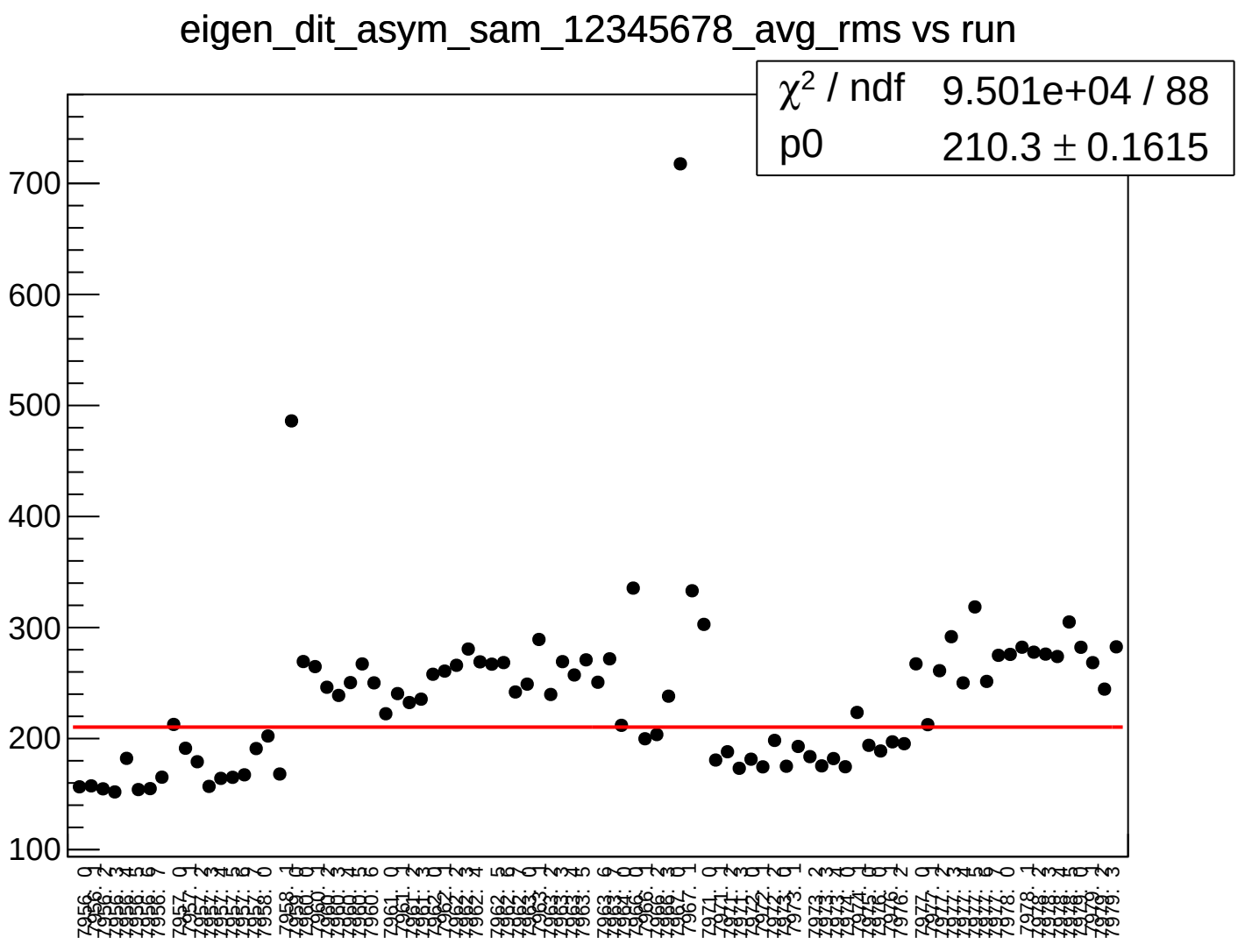

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 9.501e+04 / 88
p0 210.3 ± 0.1615
700
600
500
400
300
200
100

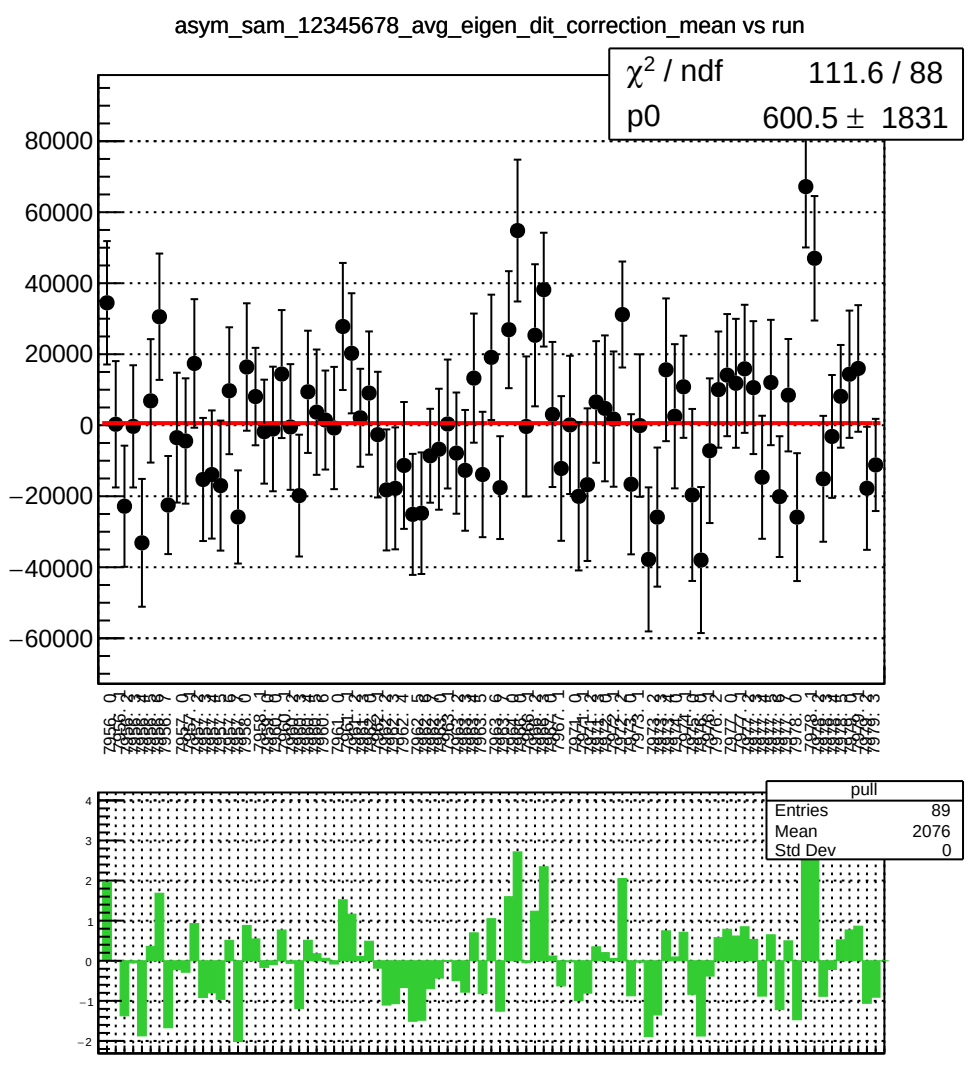

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 111.6 / 88
p0 600.5 ± 1831
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 2076
Std Dev 0
4
3
2
1
0
−1
−2

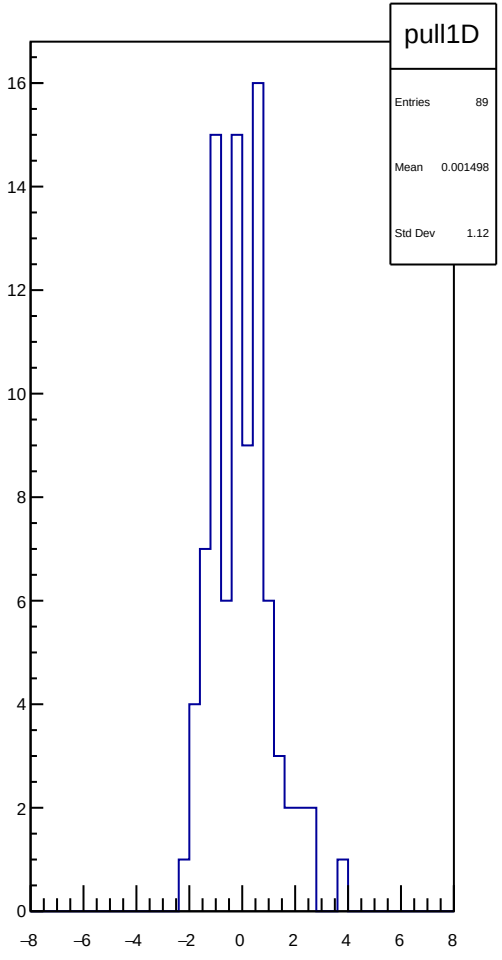

pull1D
Entries 89
Mean 0.001498
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

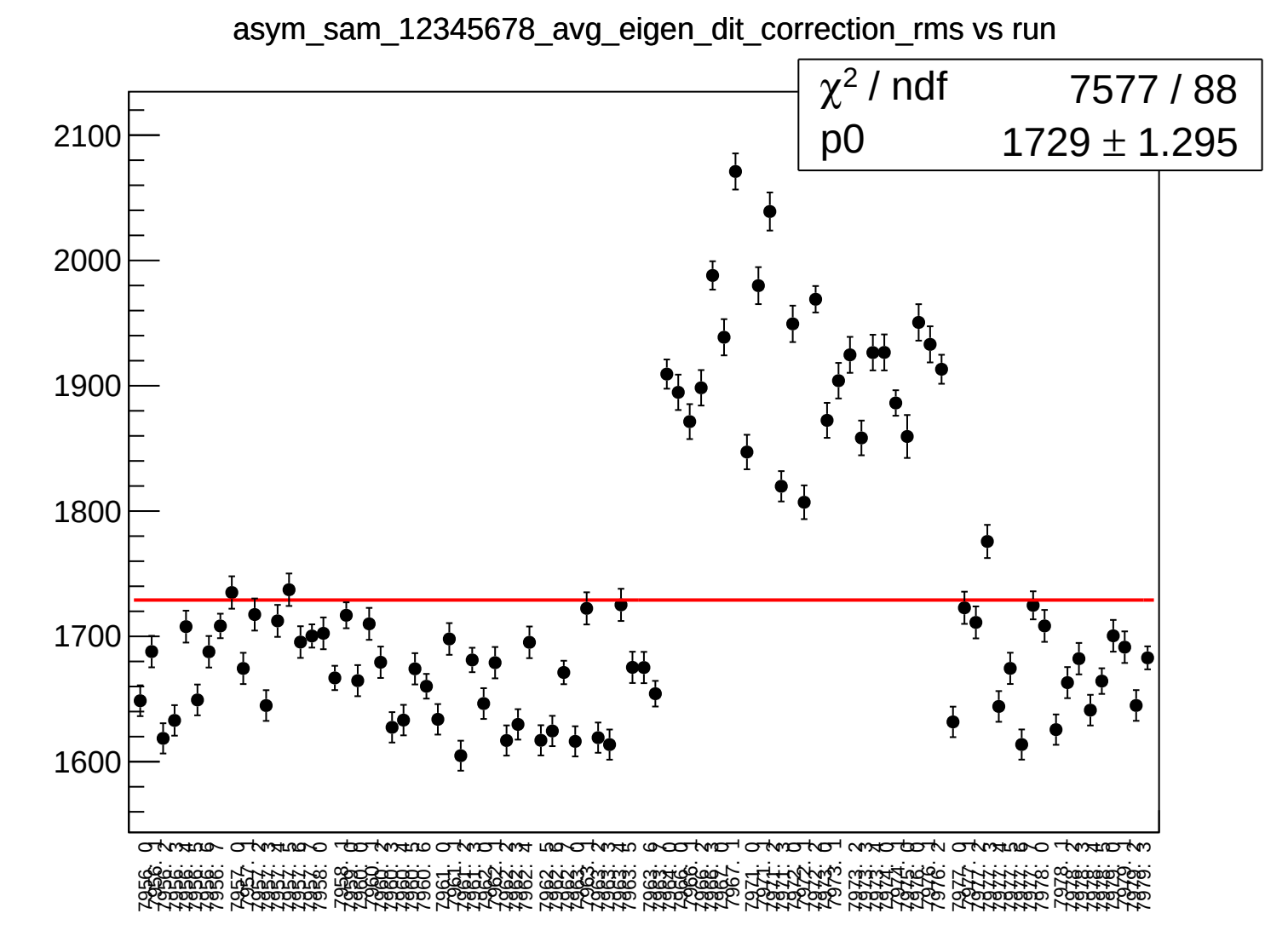

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 7577 / 88
p0 1729 ± 1.295
2100
2000
1900
1800
1700
1600

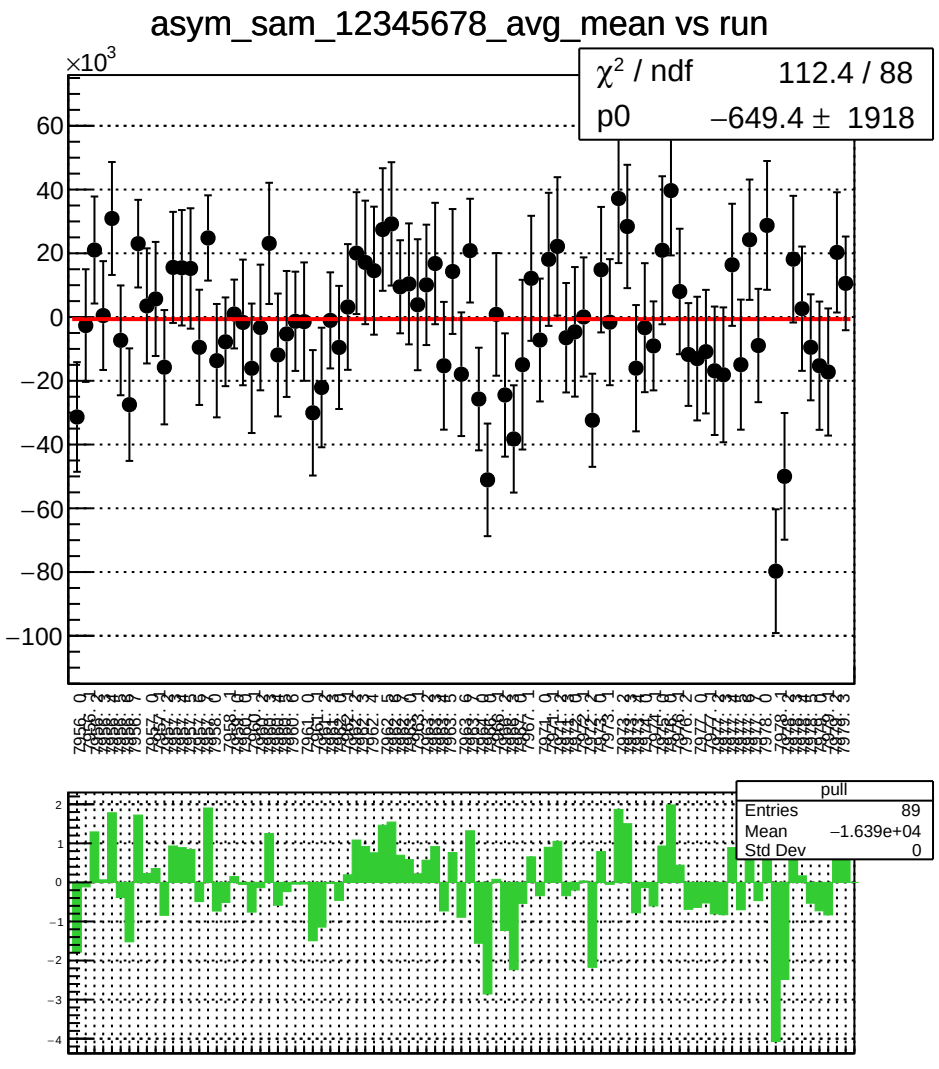

eigen_dit_asym_sam_12345678_avg_mean vs run
$\chi^2$ / ndf 99.17 / 88
p0 169.9 ± 228.4
pull
Entries 89
Mean 115
Std Dev 0
pull1D
Entries 89
Mean −0.02733
Std Dev 1.055

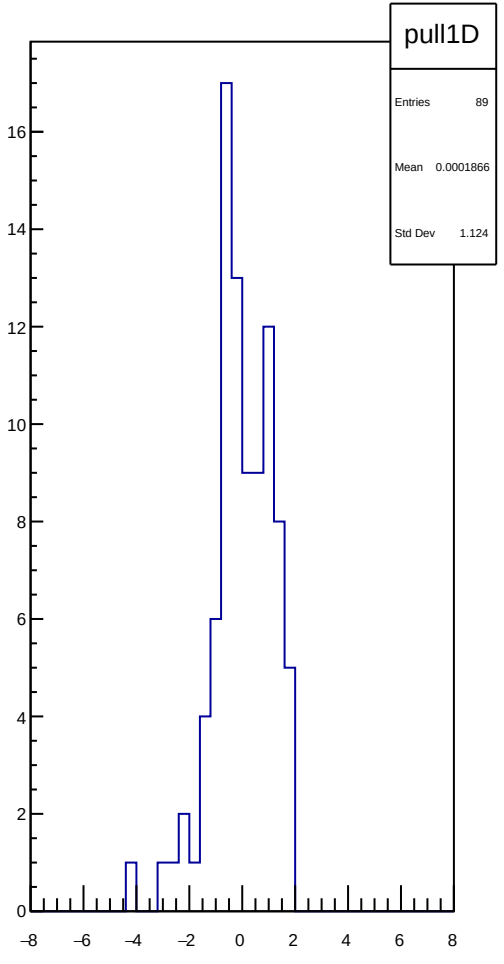

eigen_dit_asym_sam_12345678_avg_rms vs run
$\chi^2$ / ndf 9.501e+04 / 88
p0 210.3 ± 0.1615
700
600
500
400
300
200
100

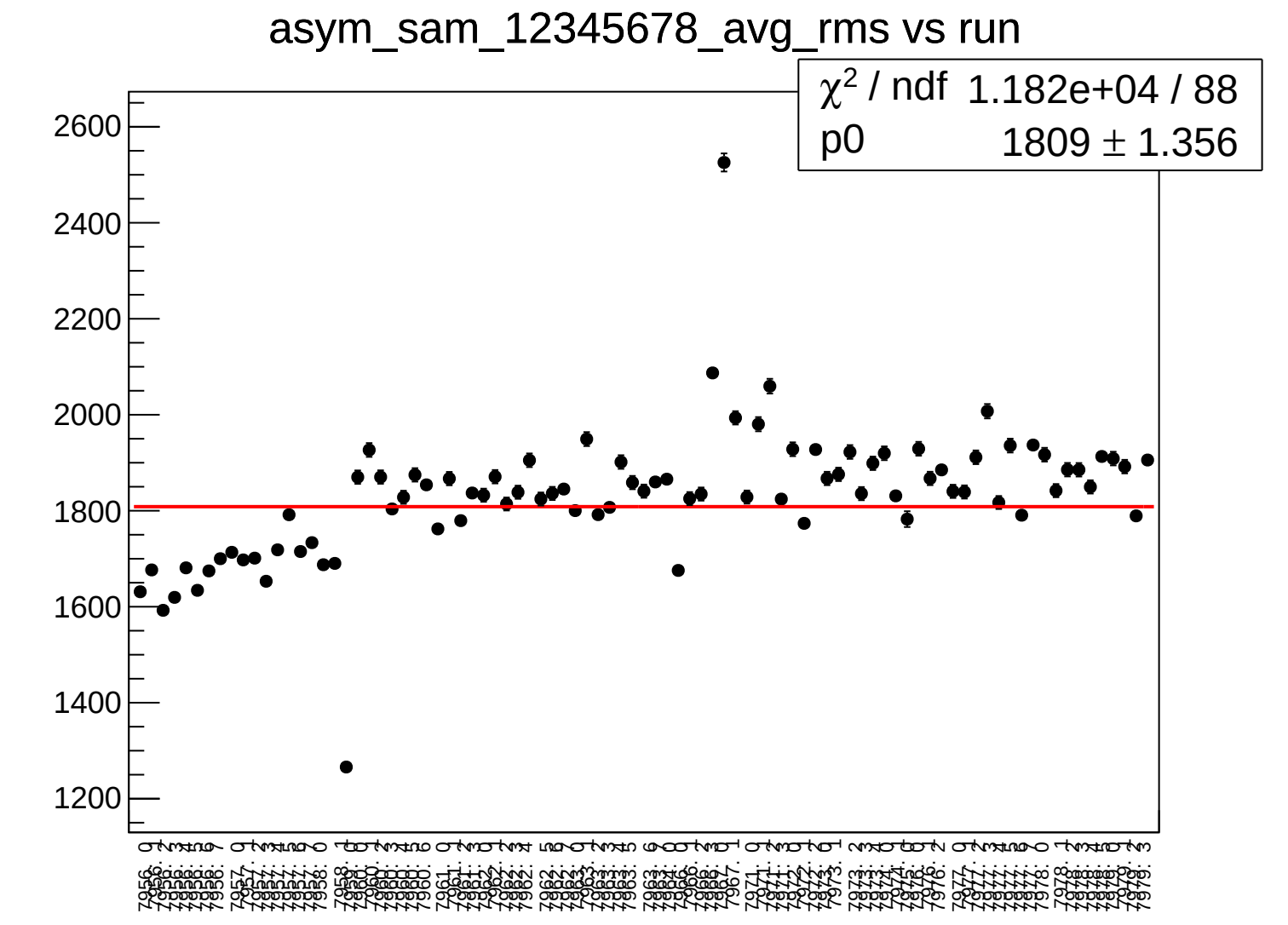

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 111.6 / 88
p0 600.5 ± 1831
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 2076
Std Dev 0
4
3
2
1
0
−1
−2

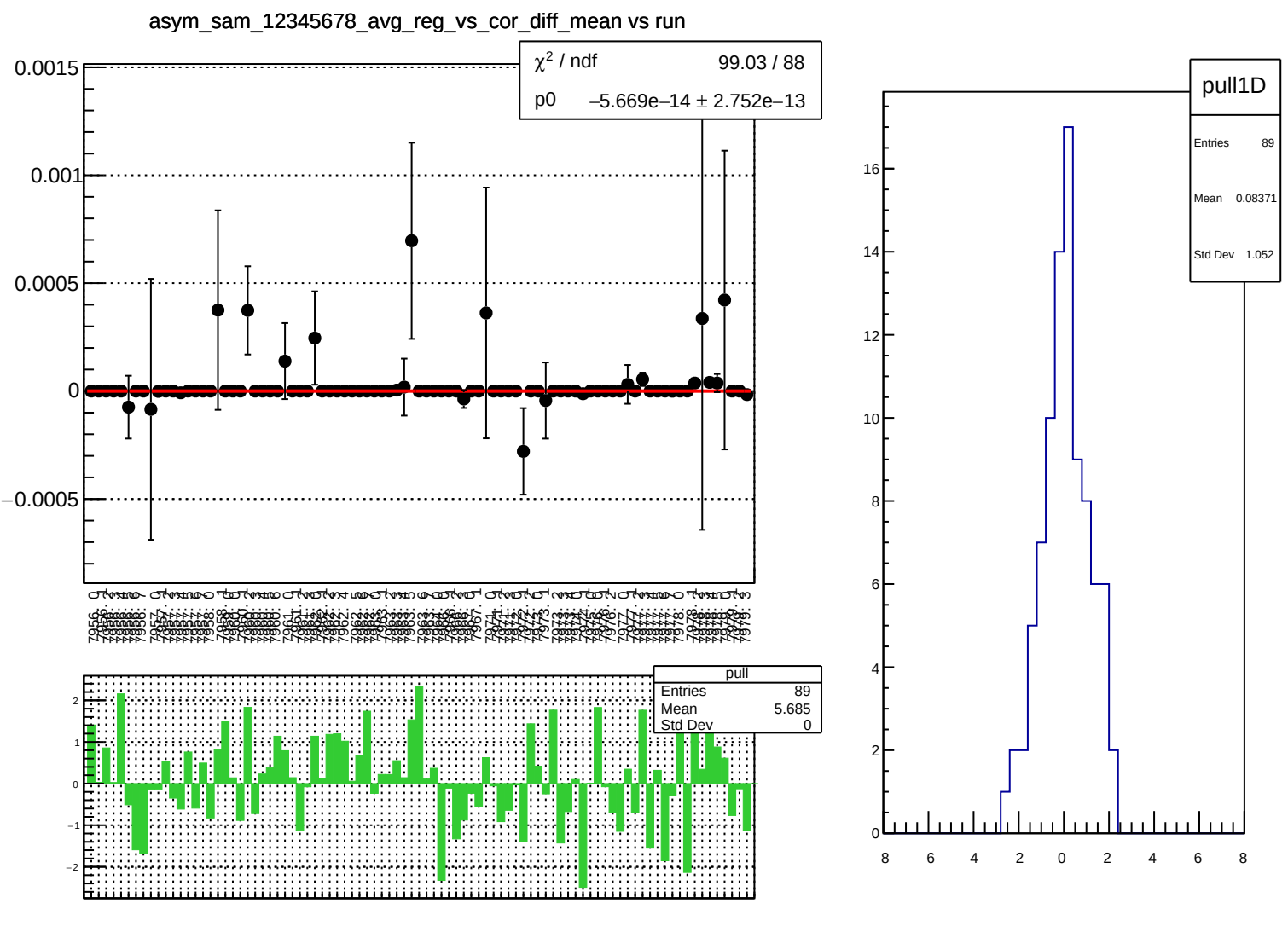

pull1D
Entries 89
Mean 0.001498
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

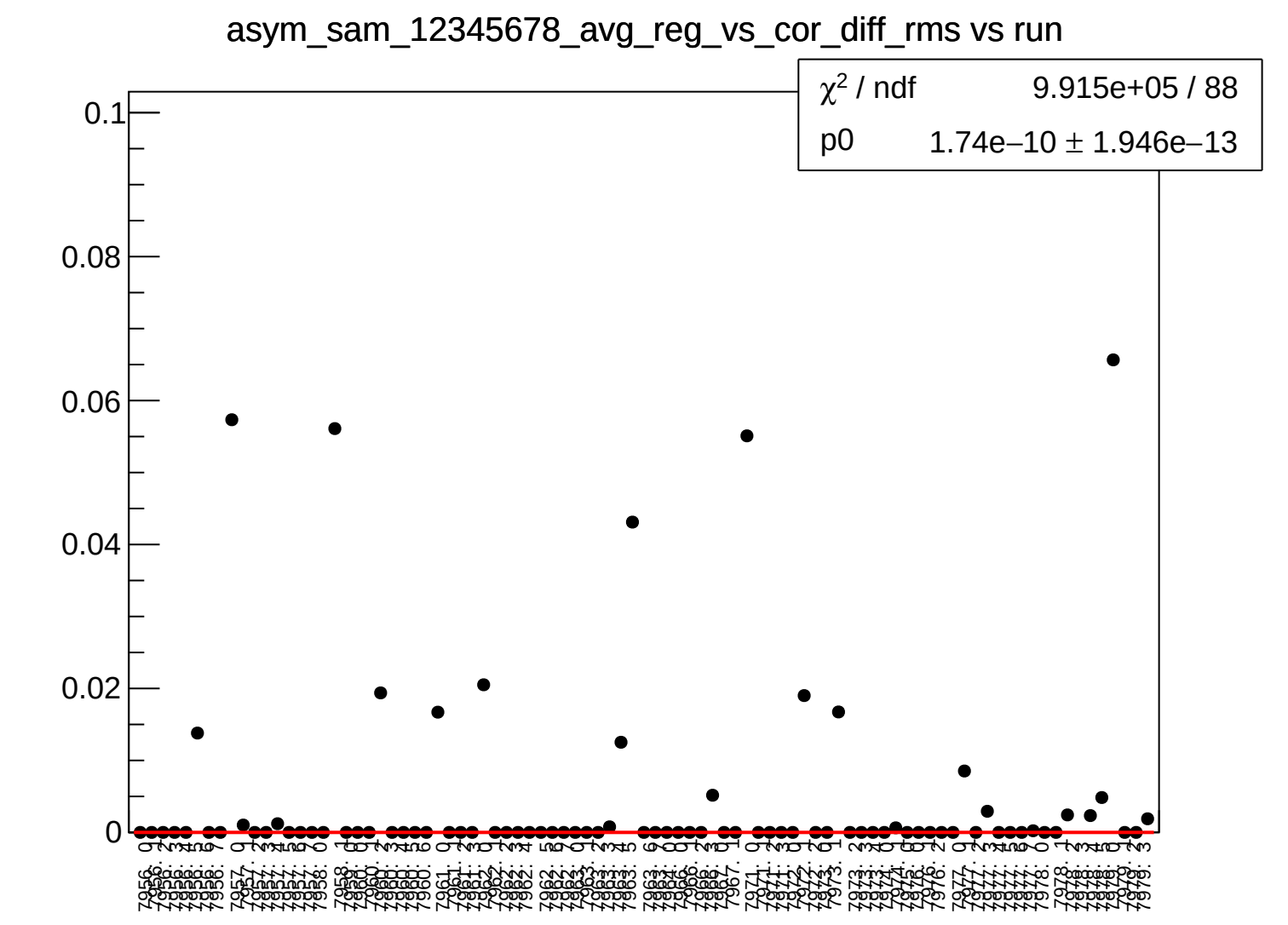

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 7577 / 88
p0 1729 ± 1.295
2100
2000
1900
1800
1700
1600

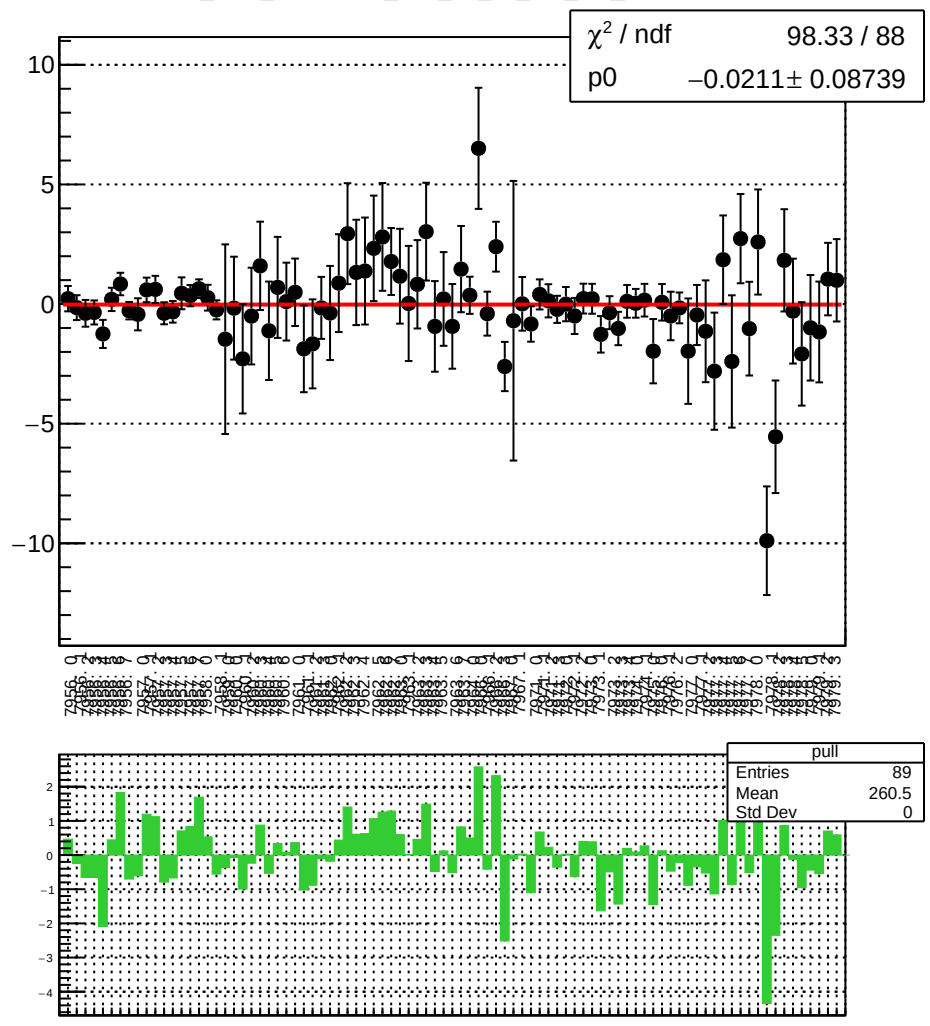

asym_sam_12345678_avg_mean vs run
×10^3
χ² / ndf 112.4 / 88
p0 −649.4 ± 1918
pull
Entries 89
Mean −1.639e+04
Std Dev 0

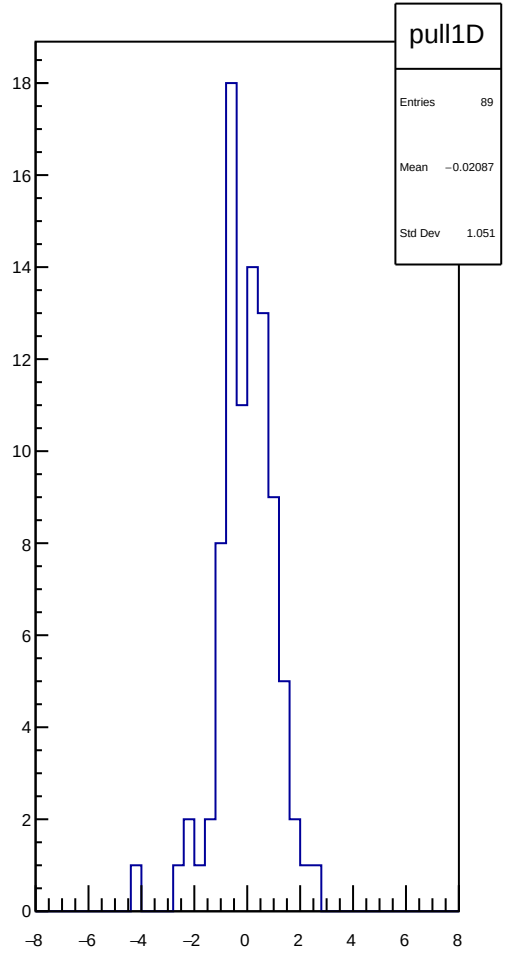

pull1D
Entries 89
Mean 0.0001866
Std Dev 1.124

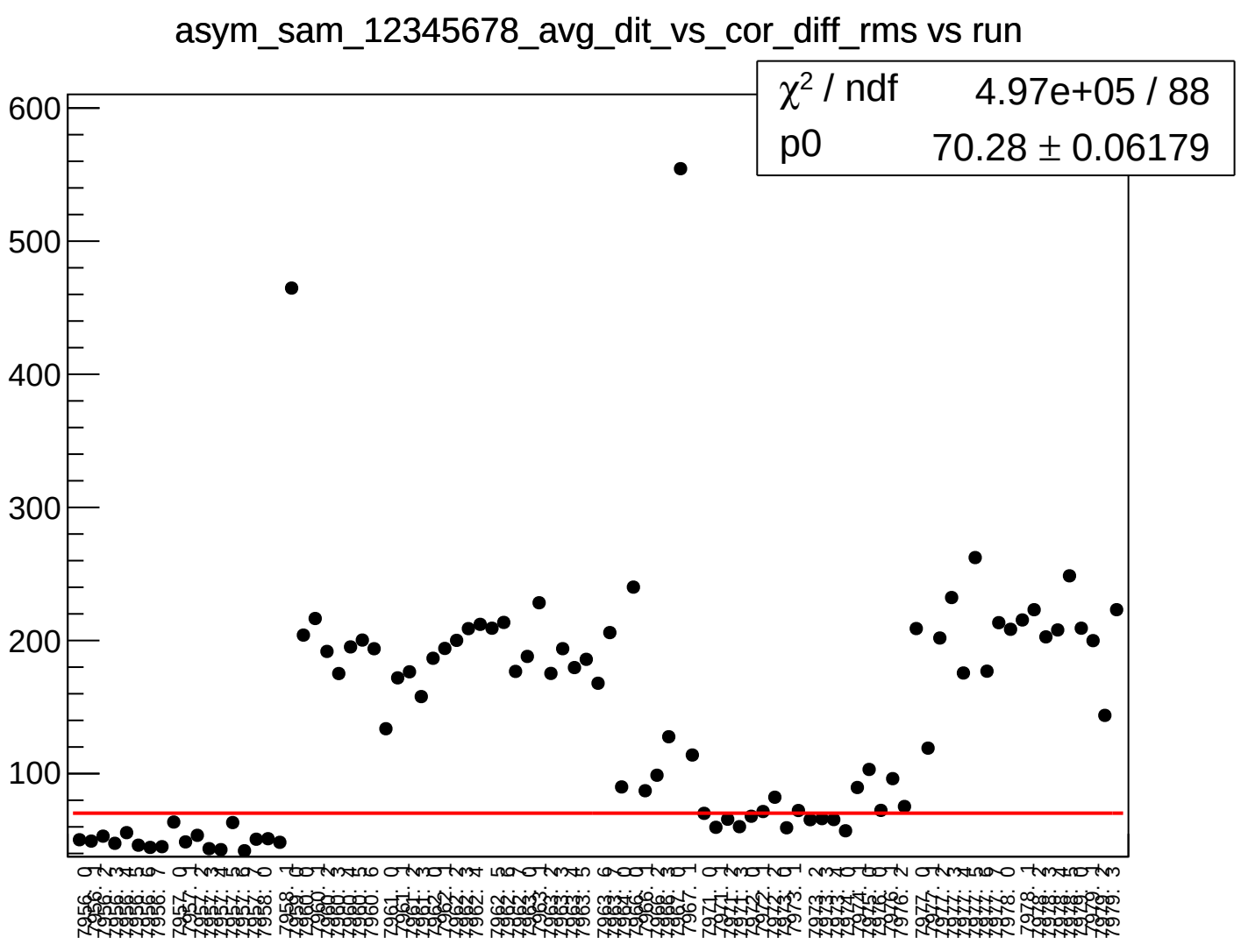

asym_sam_12345678_avg_rms vs run
$\chi^2$ / ndf 1.182e+04 / 88
p0 1809 ± 1.356
2600
2400
2200
2000
1800
1600
1400
1200

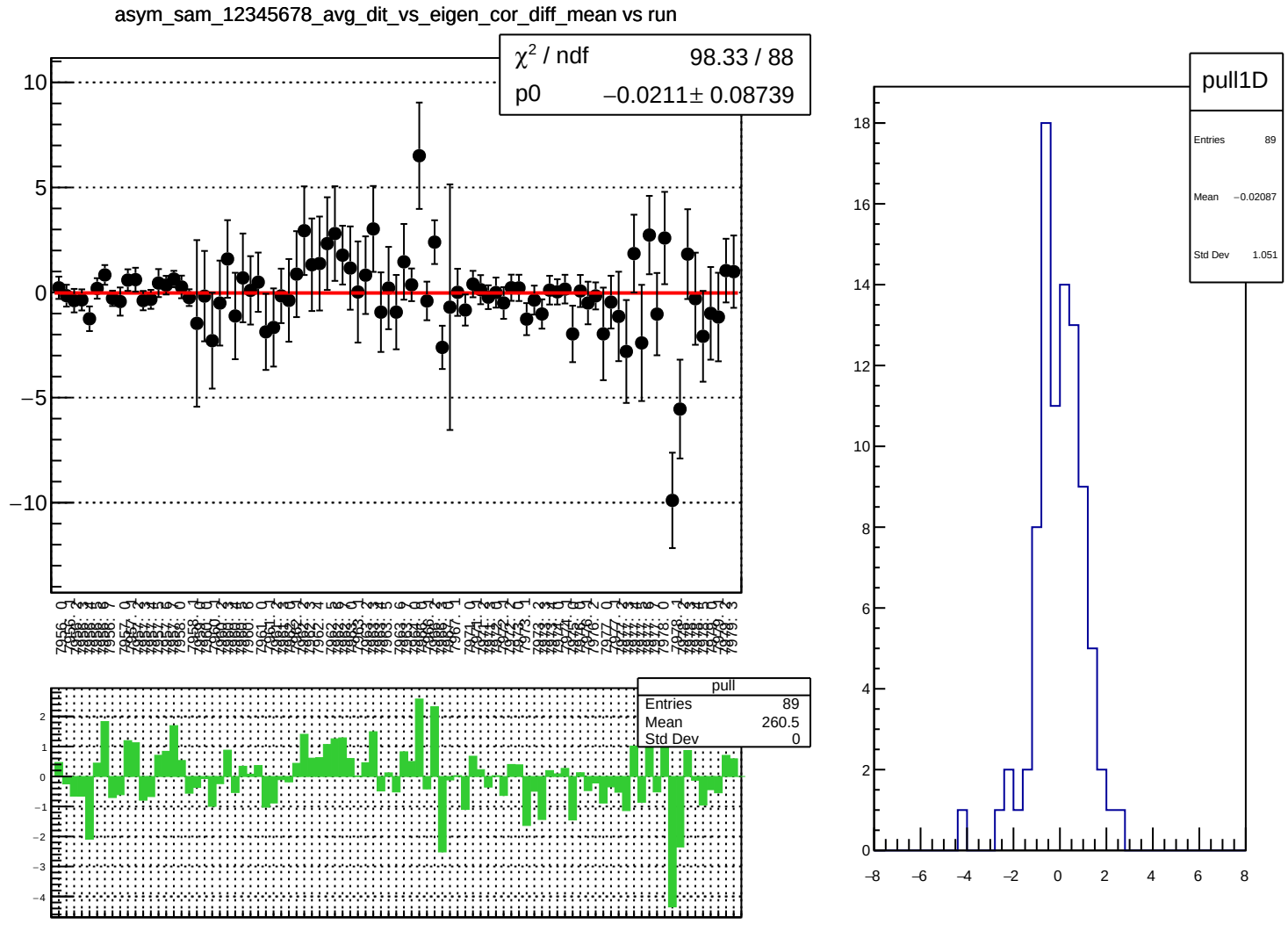

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.03 / 88
p0 −5.669e−14 ± 2.752e−13
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 89
Mean 5.685
Std Dev 0
pull1D
Entries 89
Mean 0.08371
Std Dev 1.052

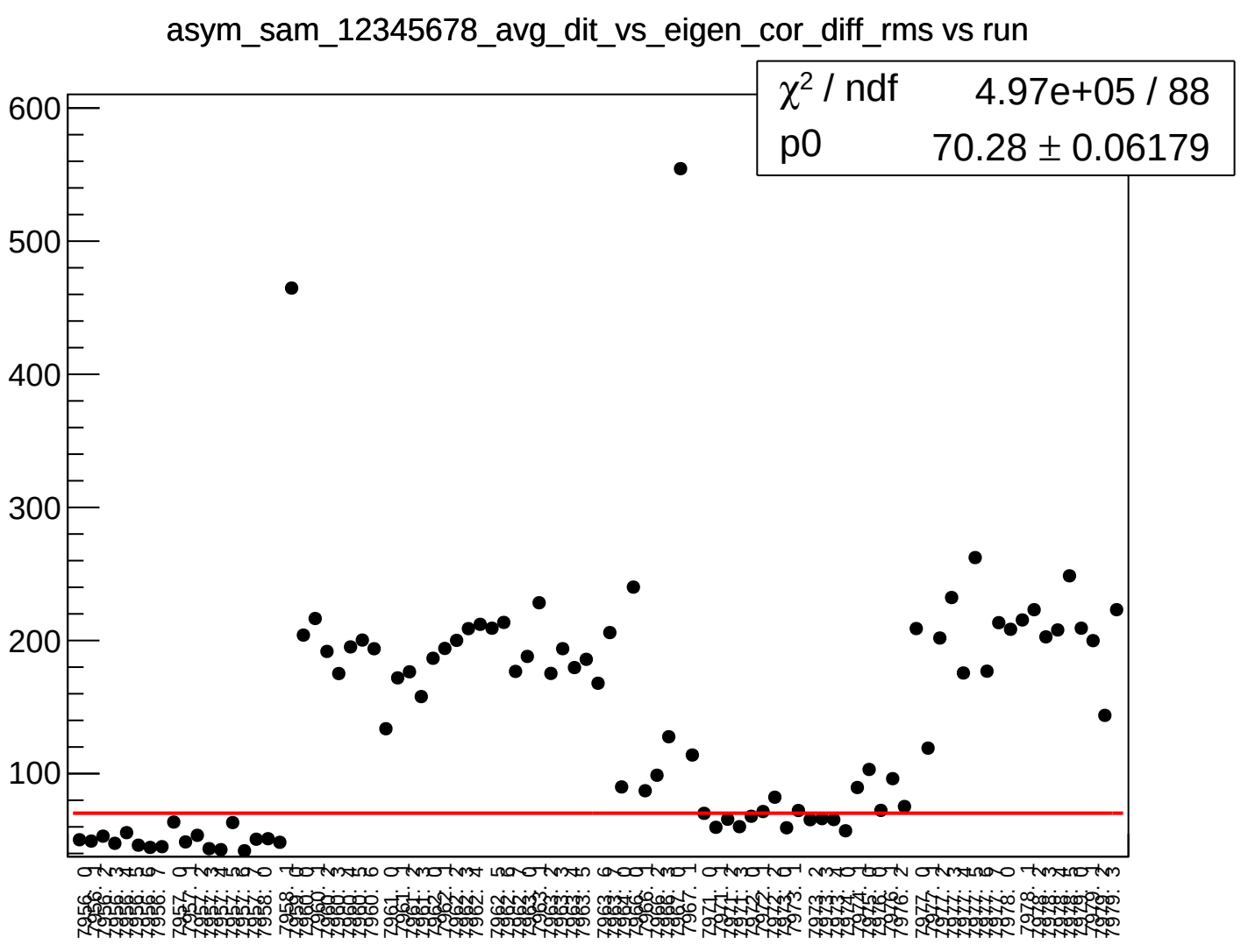

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.915e+05 / 88
p0 1.74e−10 ± 1.946e−13
0.1
0.08
0.06
0.04
0.02
0

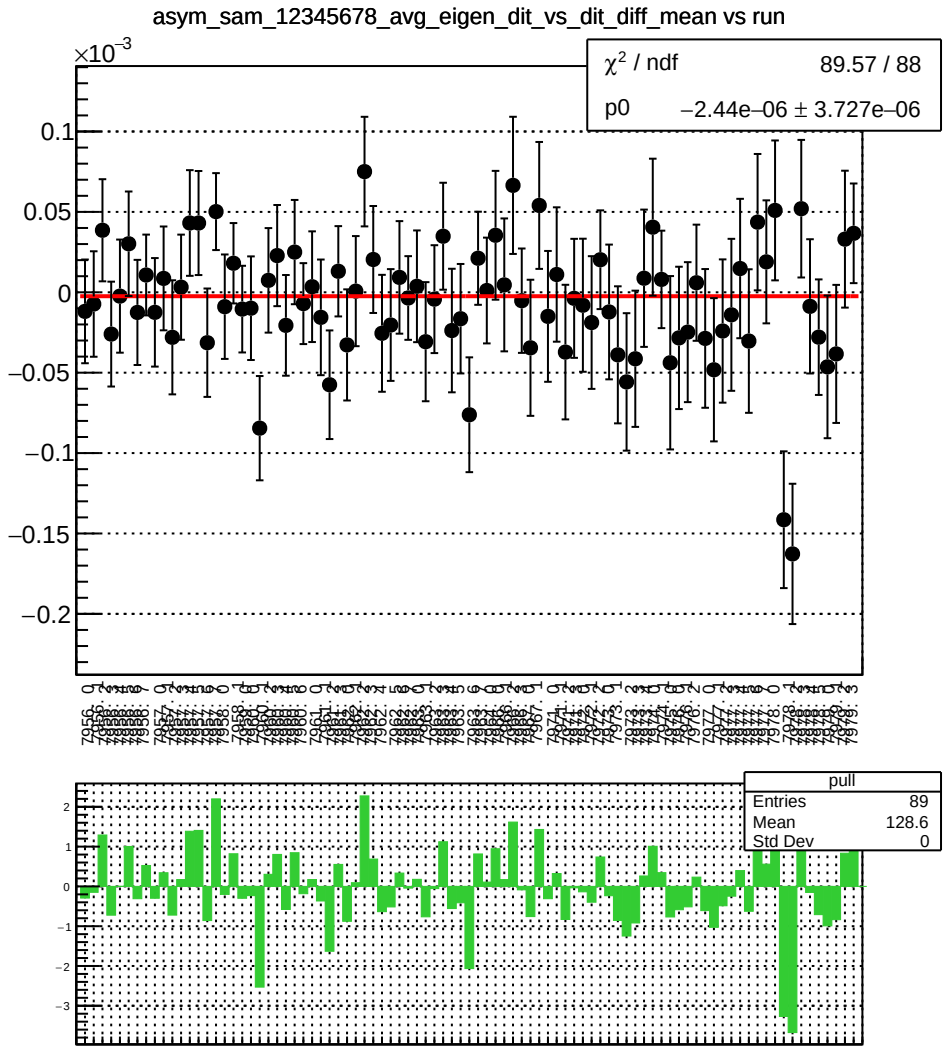

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.33 / 88
p0 −0.0211± 0.08739
pull
Entries 89
Mean 260.5
Std Dev 0

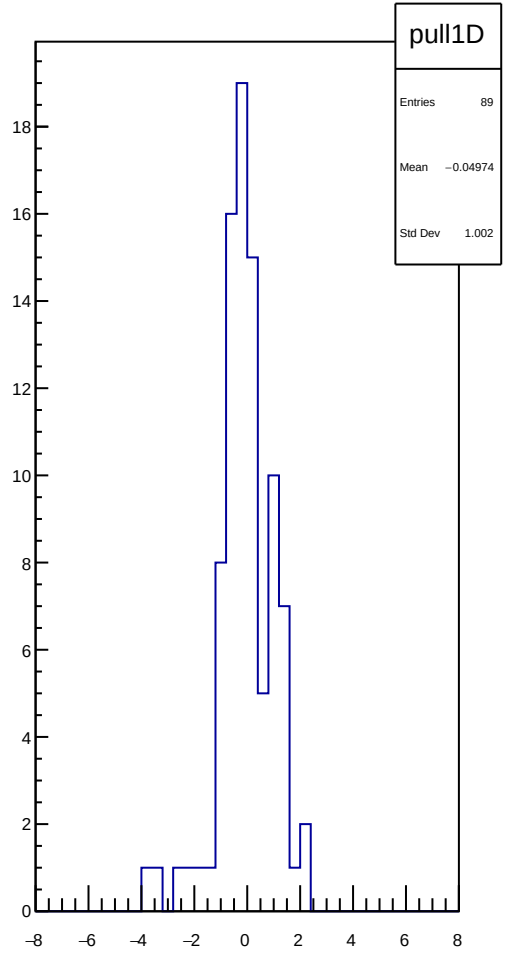

pull1D
Entries 89
Mean −0.02087
Std Dev 1.051

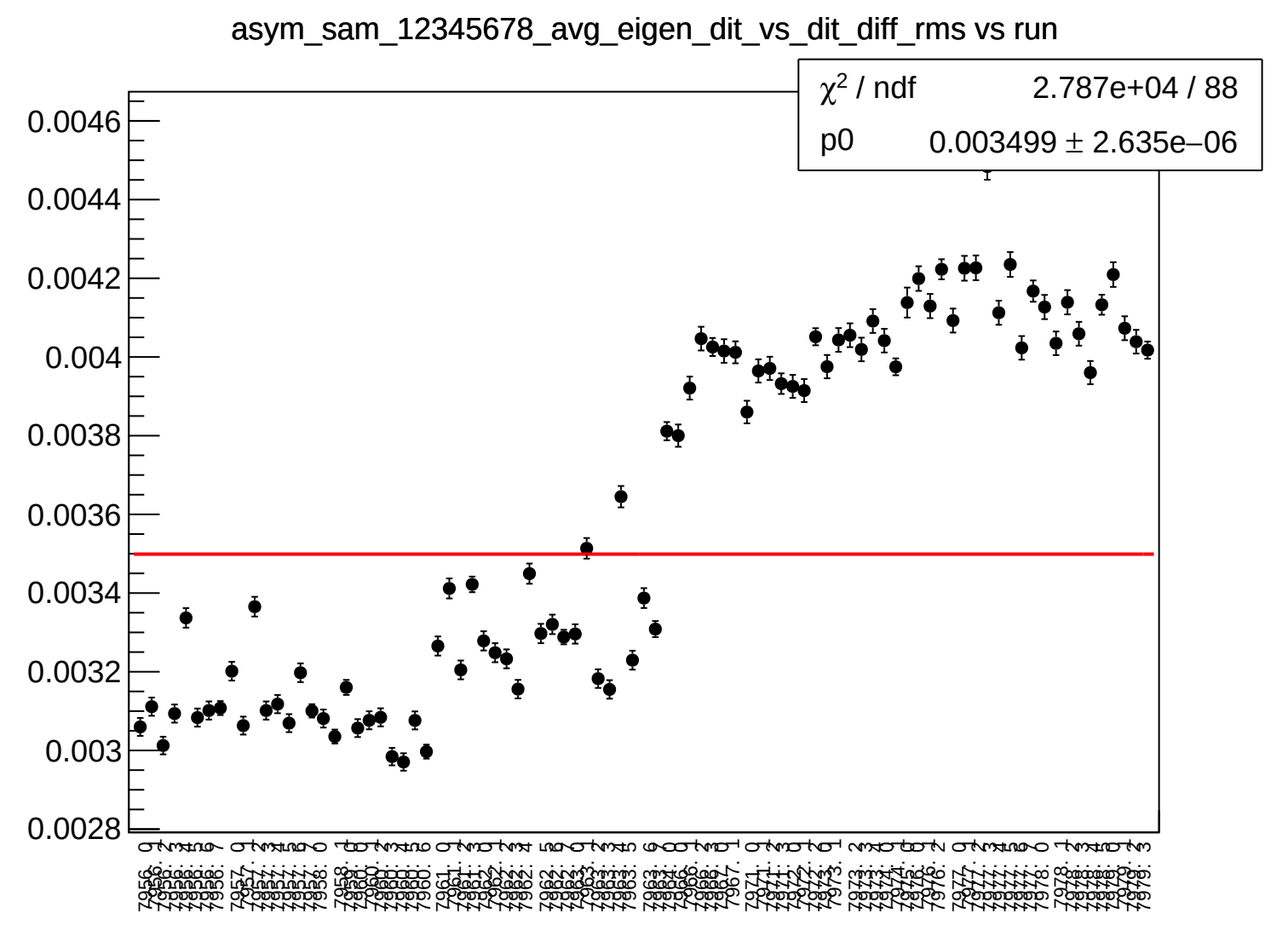

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.97e+05 / 88
p0 70.28 ± 0.06179
600
500
400
300
200
100

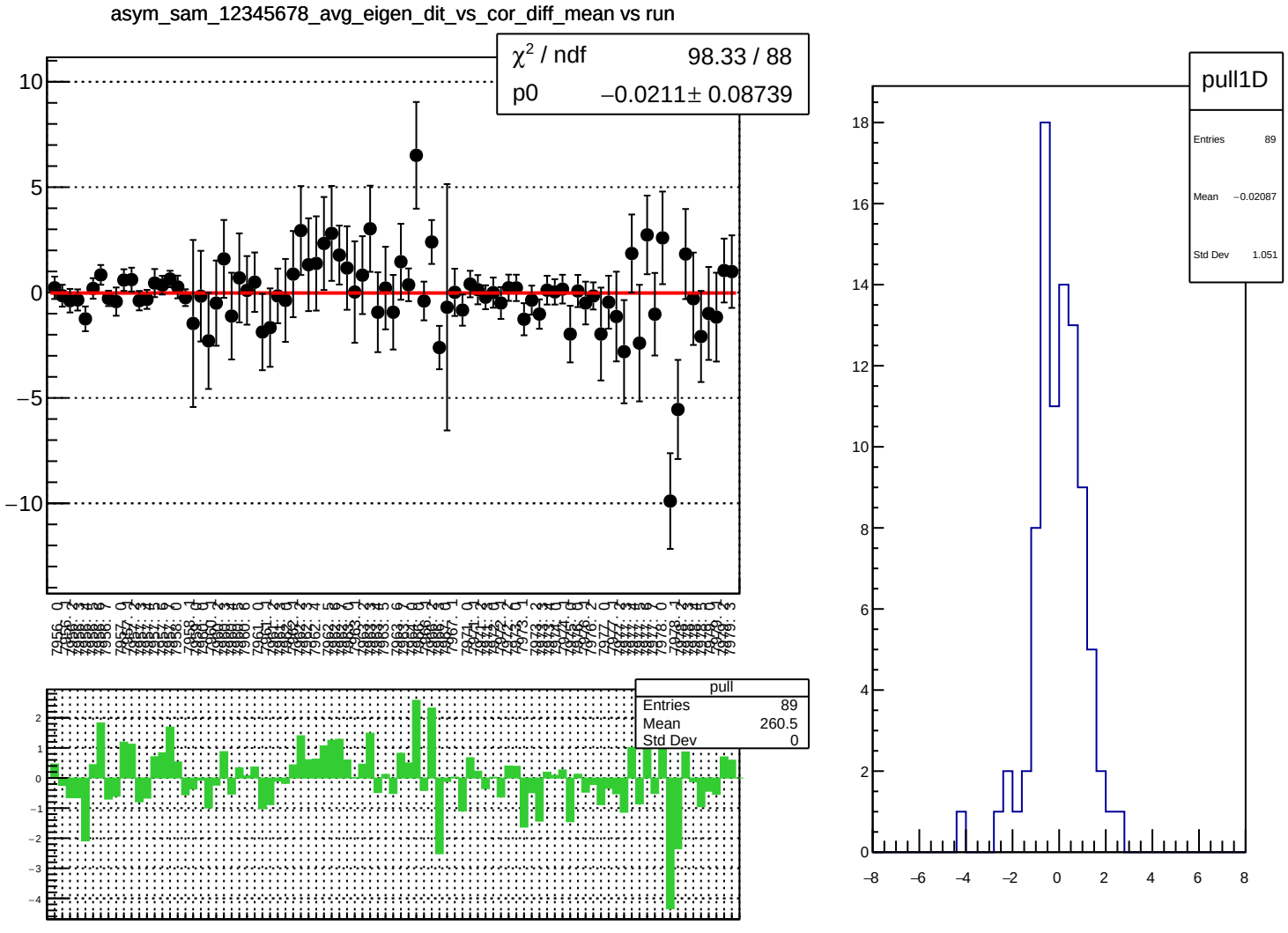

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.33 / 88
p0 −0.0211± 0.08739
pull
Entries 89
Mean 260.5
Std Dev 0
pull1D
Entries 89
Mean −0.02087
Std Dev 1.051

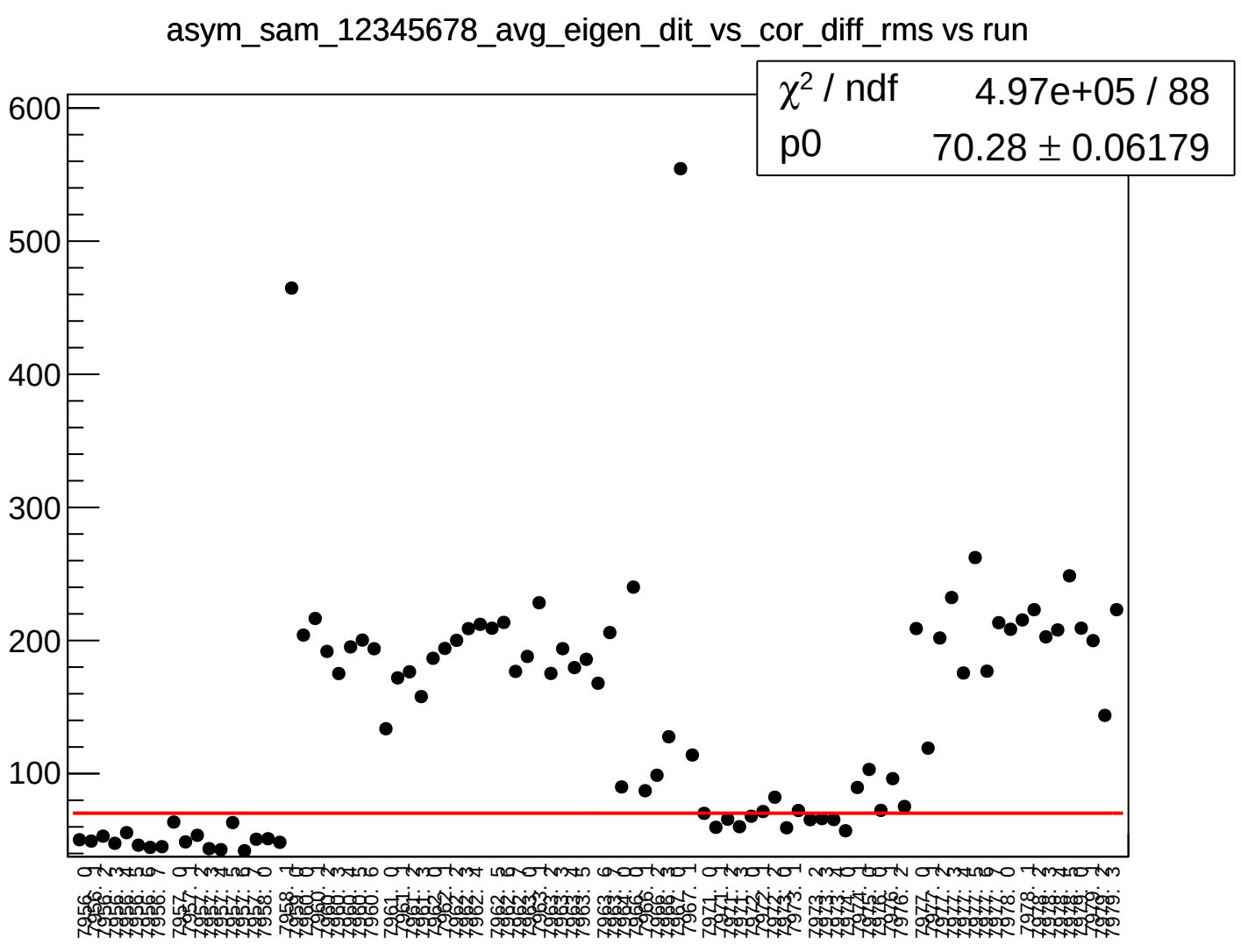

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.97e+05 / 88
p0 70.28 ± 0.06179
600
500
400
300
200
100

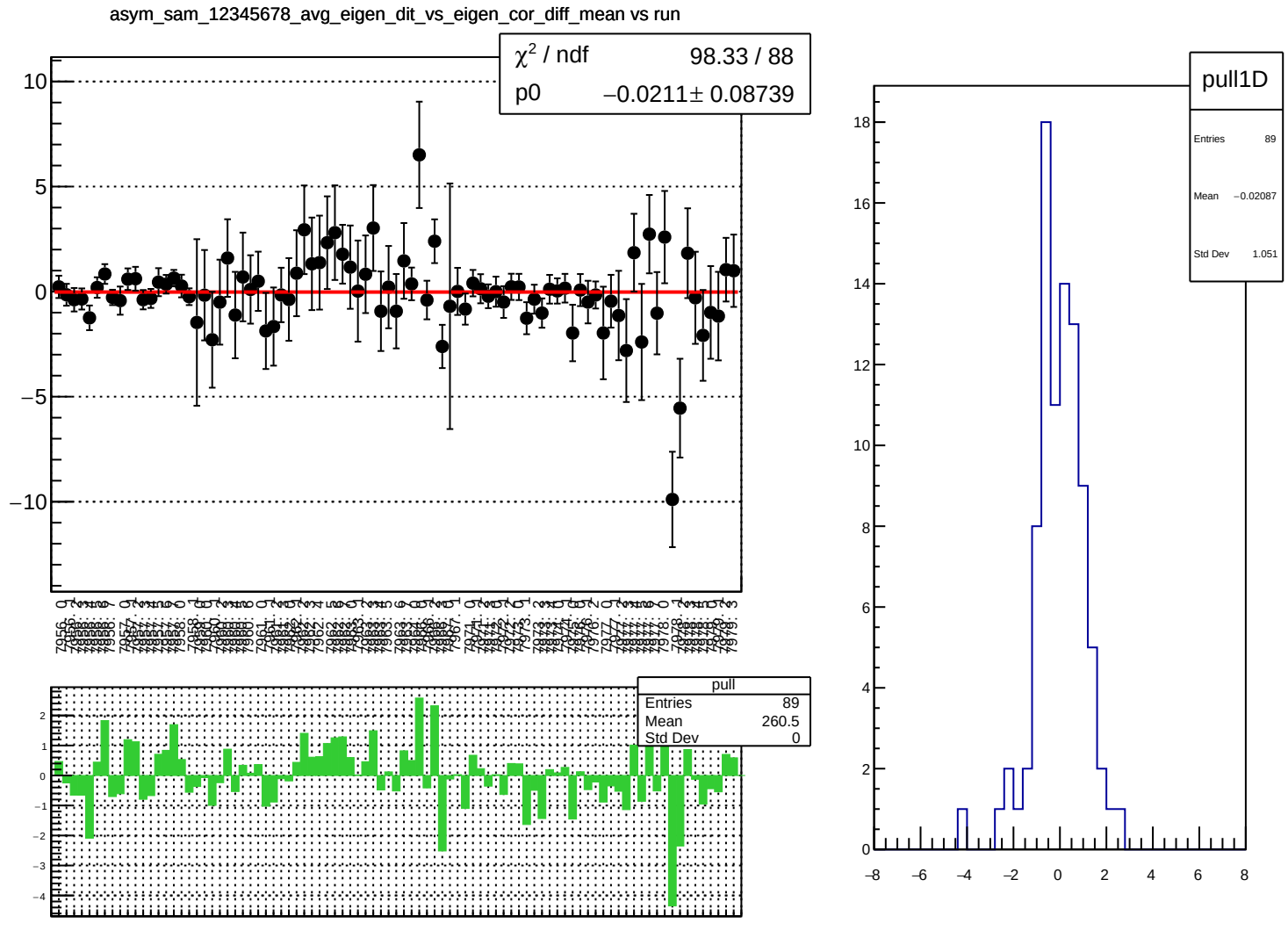

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.57 / 88
p0 −2.44e−06 ± 3.727e−06
pull
Entries 89
Mean 128.6
Std Dev 0

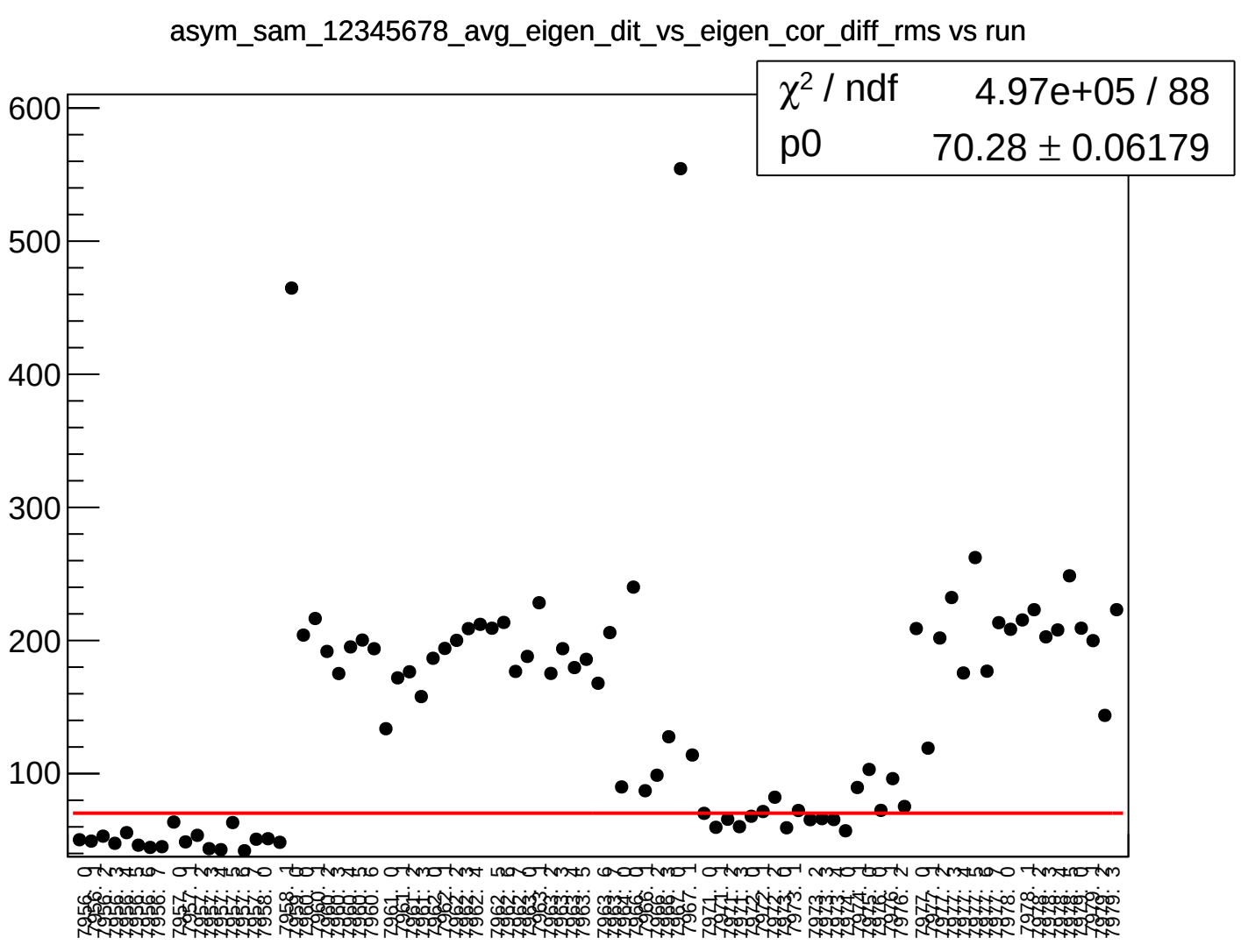

pull1D
Entries 89
Mean −0.04974
Std Dev 1.002

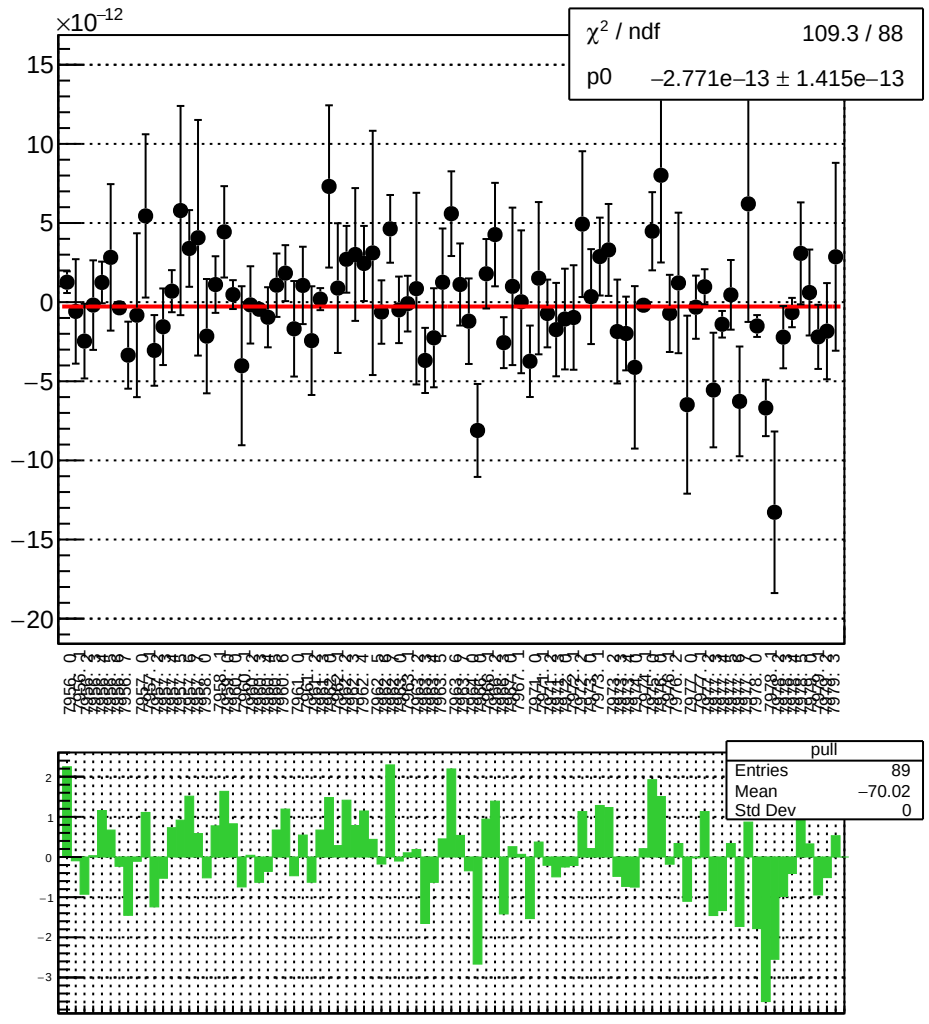

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.787e+04 / 88
p0 0.003499 ± 2.635e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

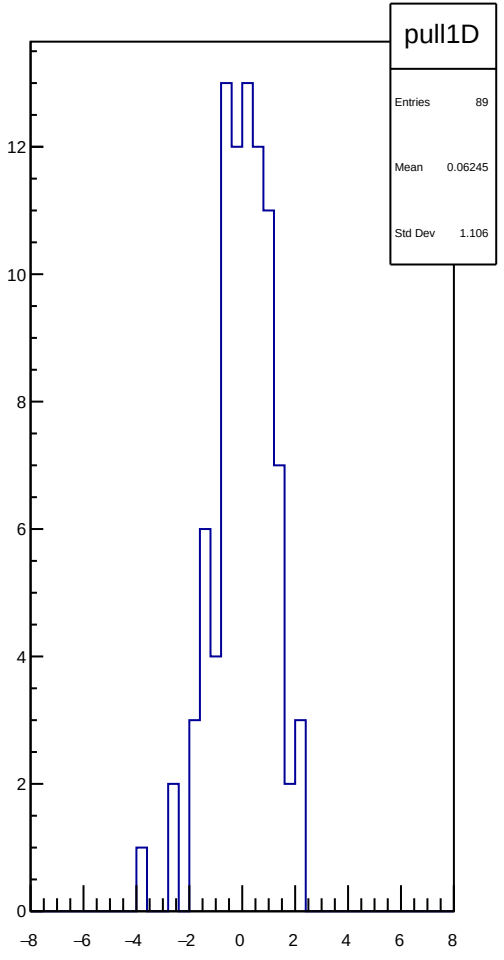

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.33 / 88
p0 −0.0211± 0.08739
pull
Entries 89
Mean 260.5
Std Dev 0
pull1D
Entries 89
Mean −0.02087
Std Dev 1.051

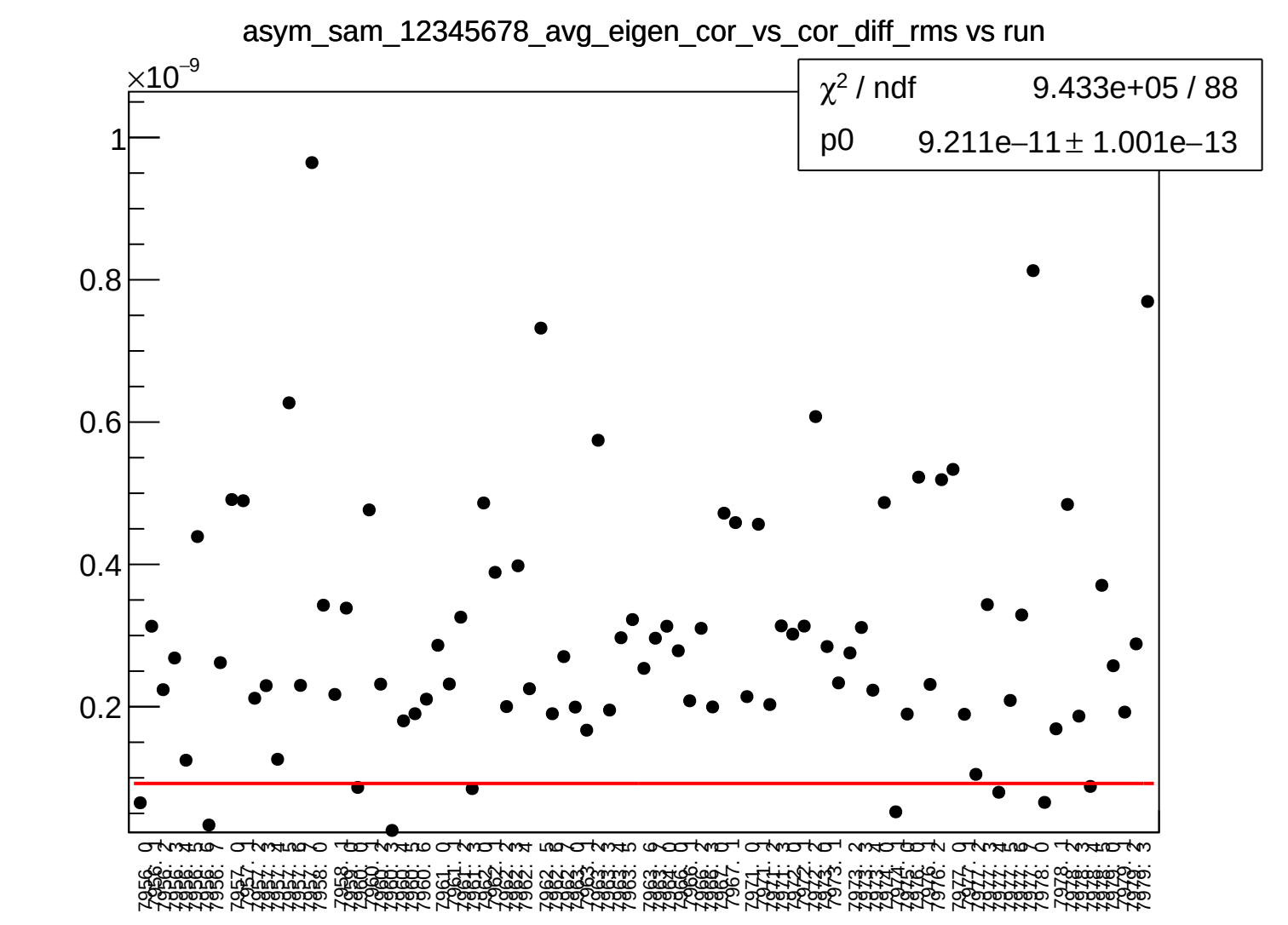

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.97e+05 / 88
p0 70.28 ± 0.06179
600
500
400
300
200
100

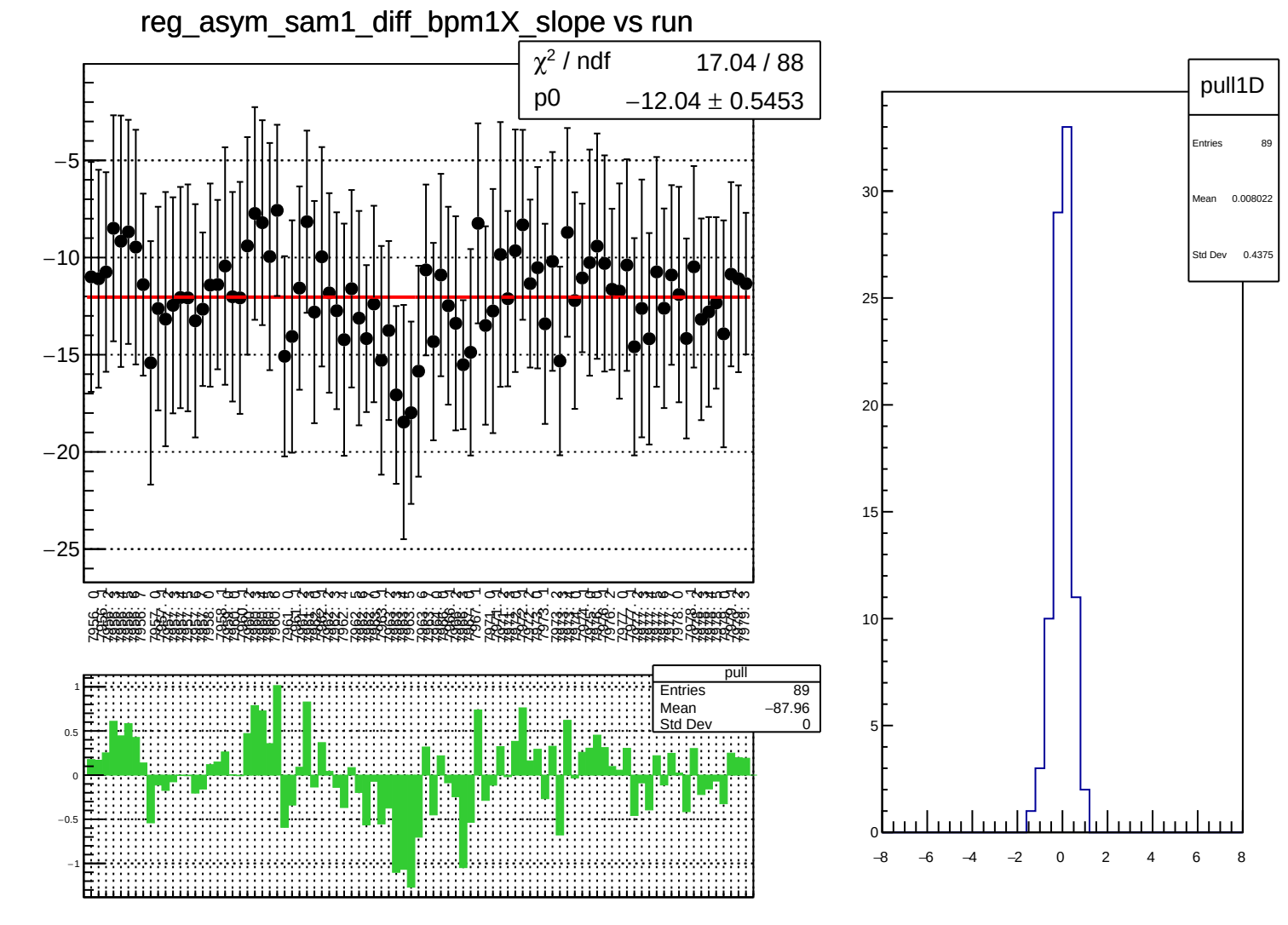

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.33 / 88
p0 −0.0211± 0.08739
pull
Entries 89
Mean 260.5
Std Dev 0
pull1D
Entries 89
Mean −0.02087
Std Dev 1.051

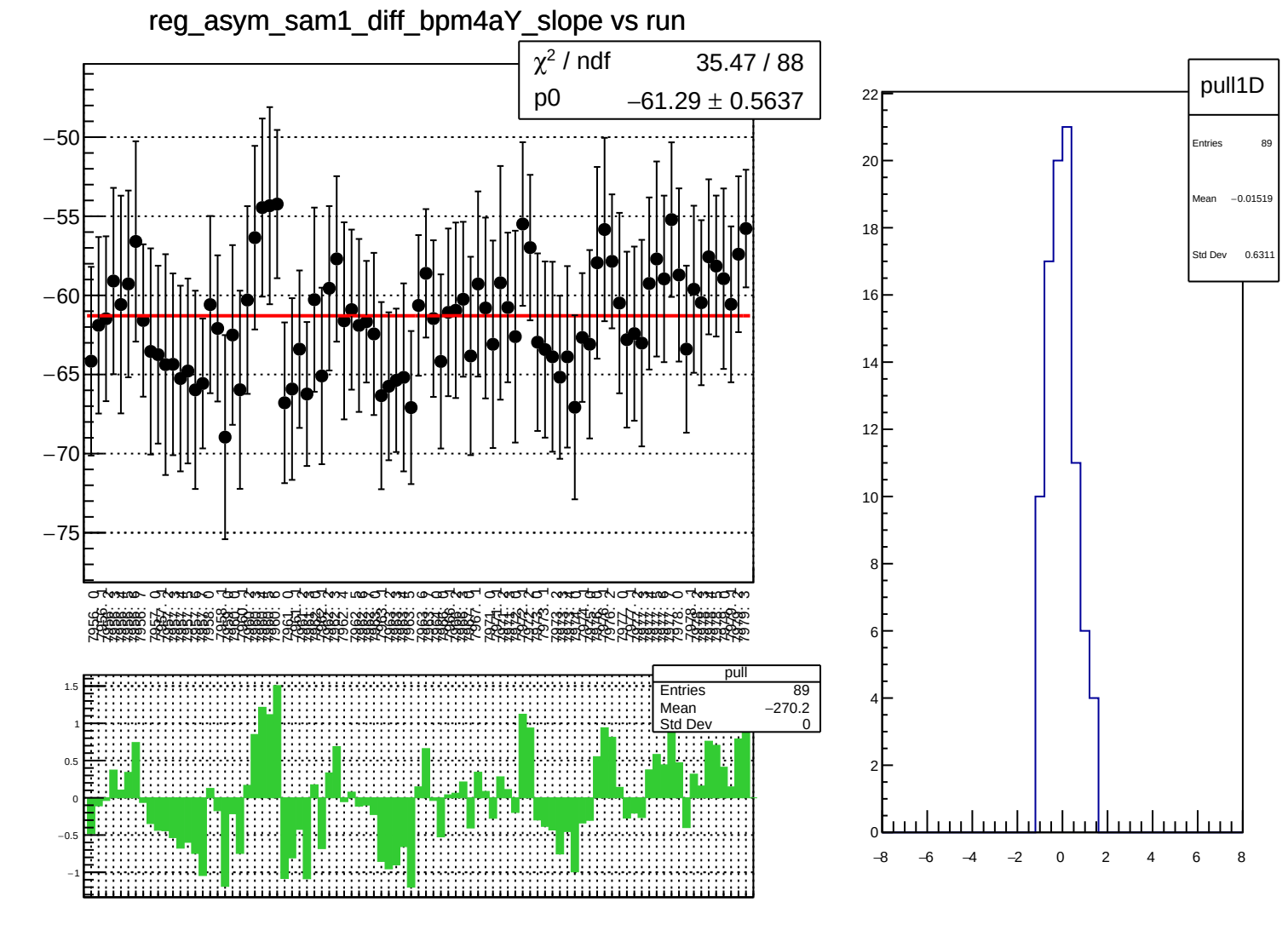

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.97e+05 / 88
p0 70.28 ± 0.06179
600
500
400
300
200
100

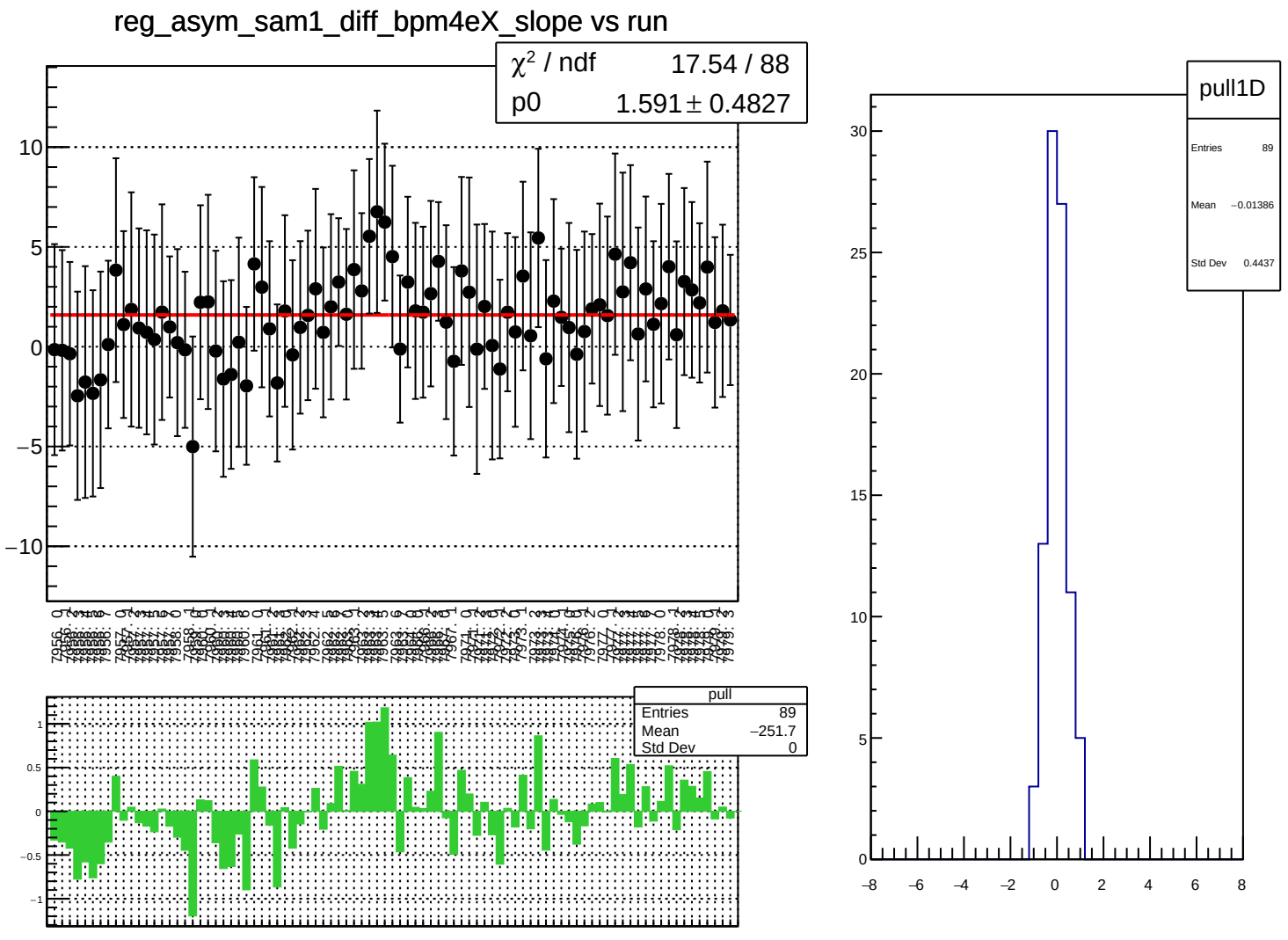

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.3 / 88
p0 −2.771e−13 ± 1.415e−13
pull
Entries 89
Mean −70.02
Std Dev 0

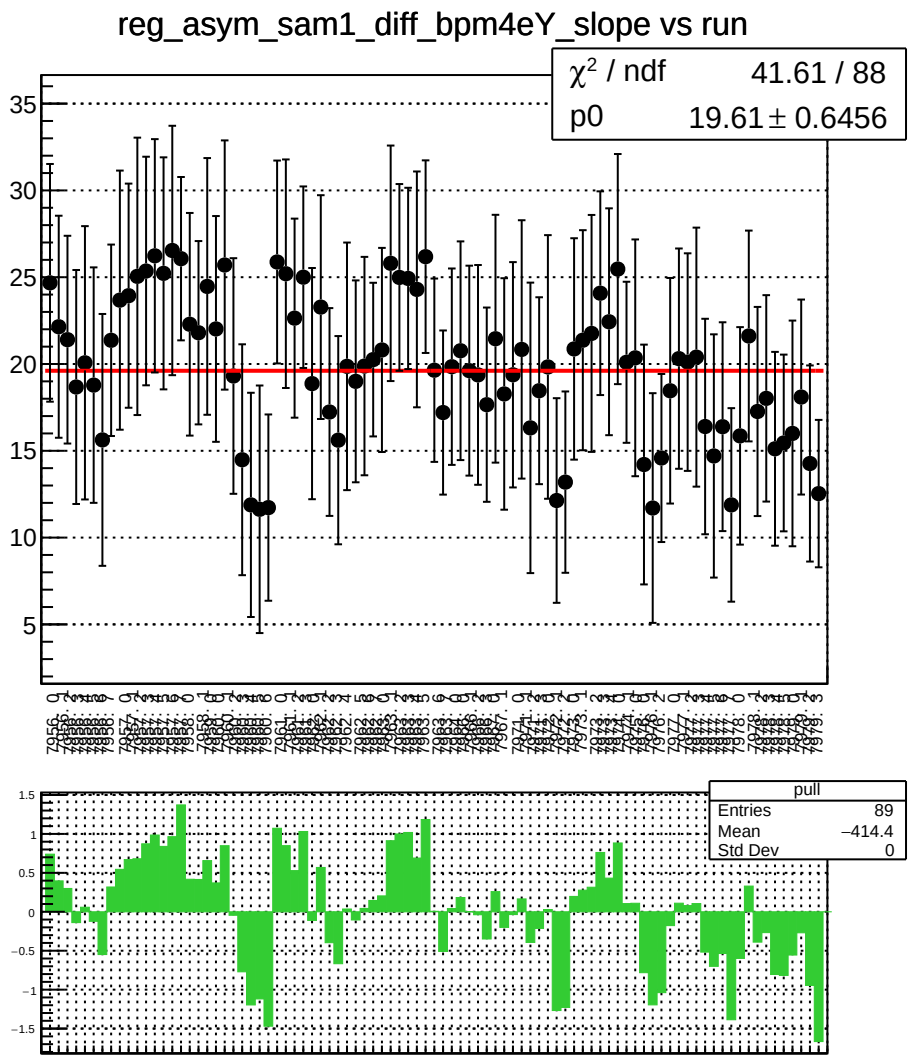

pull1D
Entries 89
Mean 0.06245
Std Dev 1.106

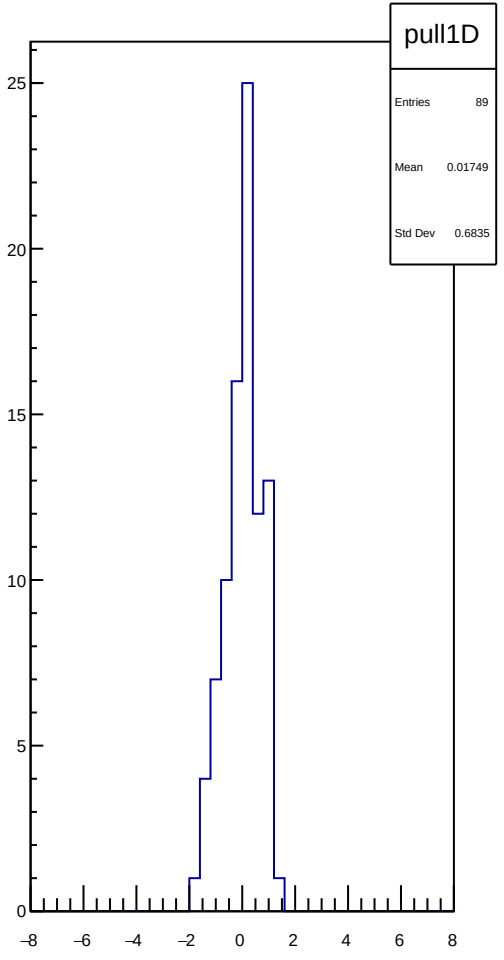

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.433e+05 / 88
p0 9.211e−11 ± 1.001e−13
1
0.8
0.6
0.4
0.2

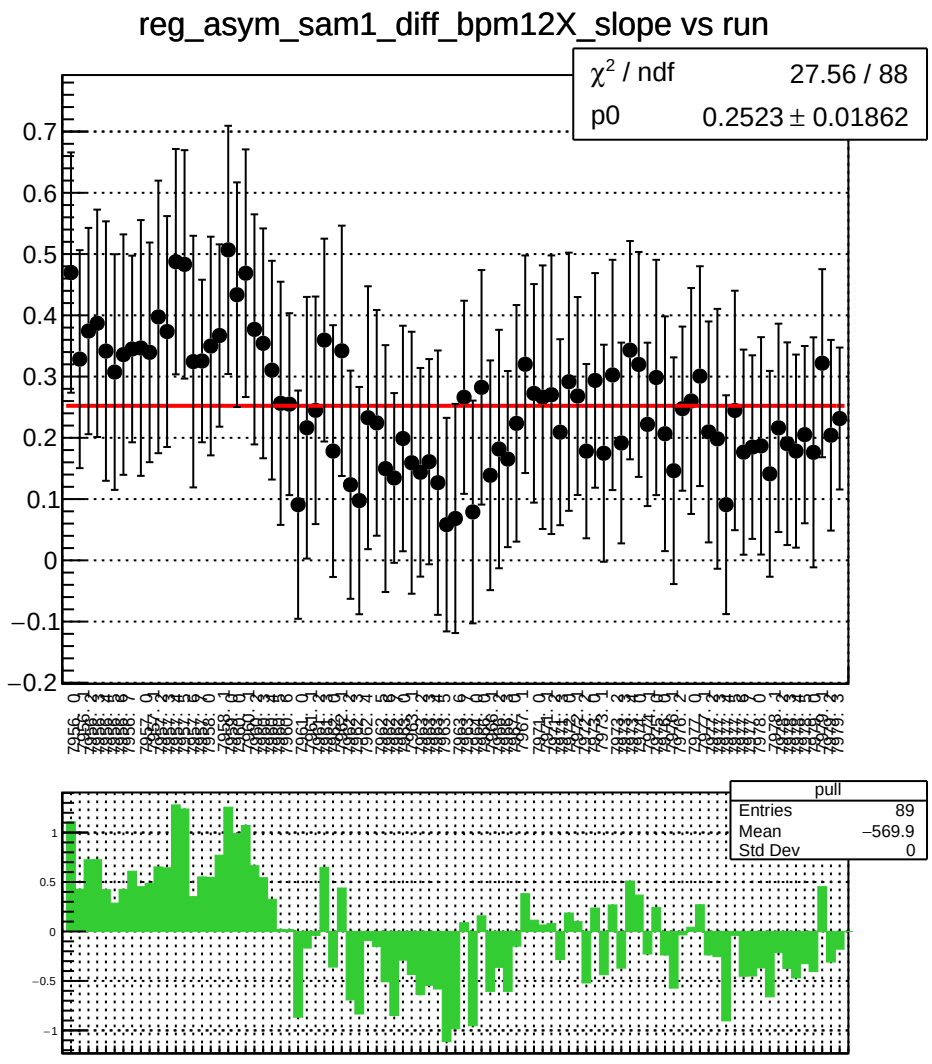

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 17.04 / 88
p0 −12.04 ± 0.5453
pull
Entries 89
Mean −87.96
Std Dev 0
pull1D
Entries 89
Mean 0.008022
Std Dev 0.4375

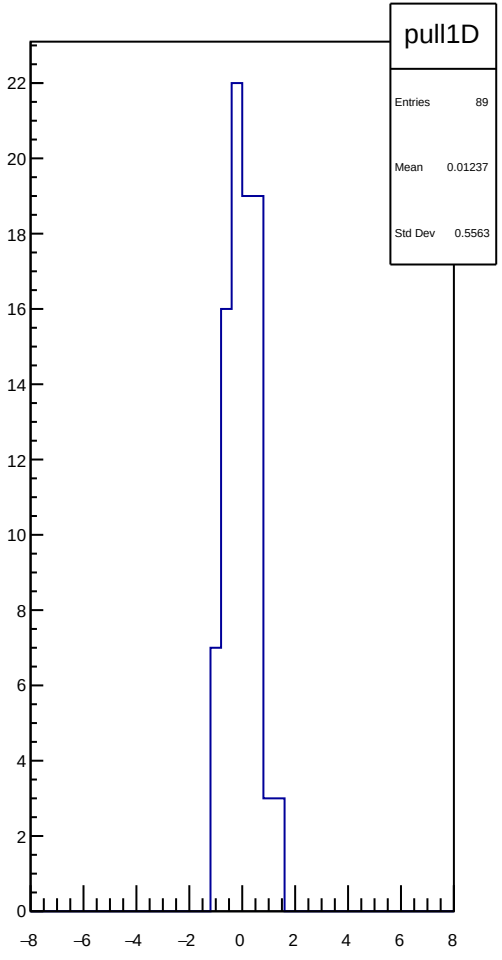

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 35.47 / 88
p0 −61.29 ± 0.5637
pull
Entries 89
Mean −270.2
Std Dev 0
pull1D
Entries 89
Mean −0.01519
Std Dev 0.6311

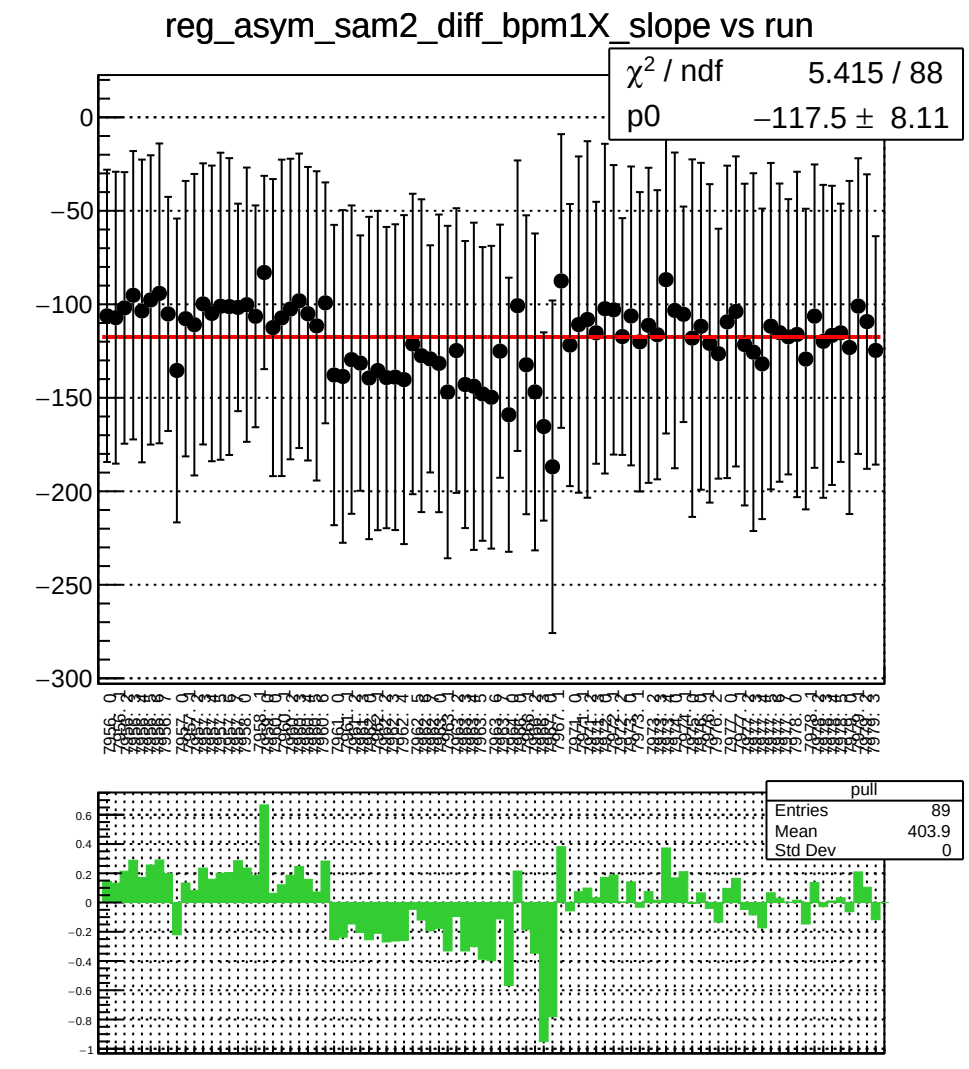

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 17.54 / 88
p0 1.591 ± 0.4827
pull
Entries 89
Mean −251.7
Std Dev 0
pull1D
Entries 89
Mean −0.01386
Std Dev 0.4437

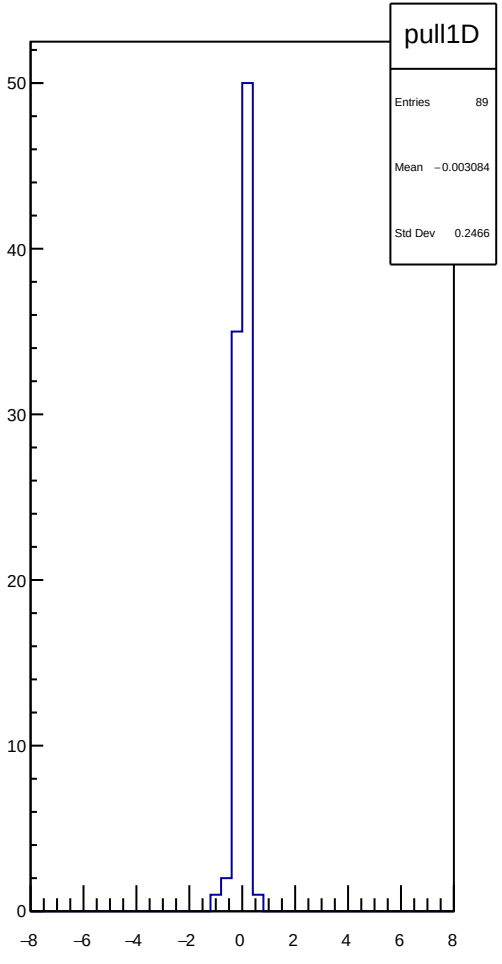

reg_asym_sam1_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 41.61 / 88
p0 19.61 ± 0.6456
pull
Entries 89
Mean −414.4
Std Dev 0

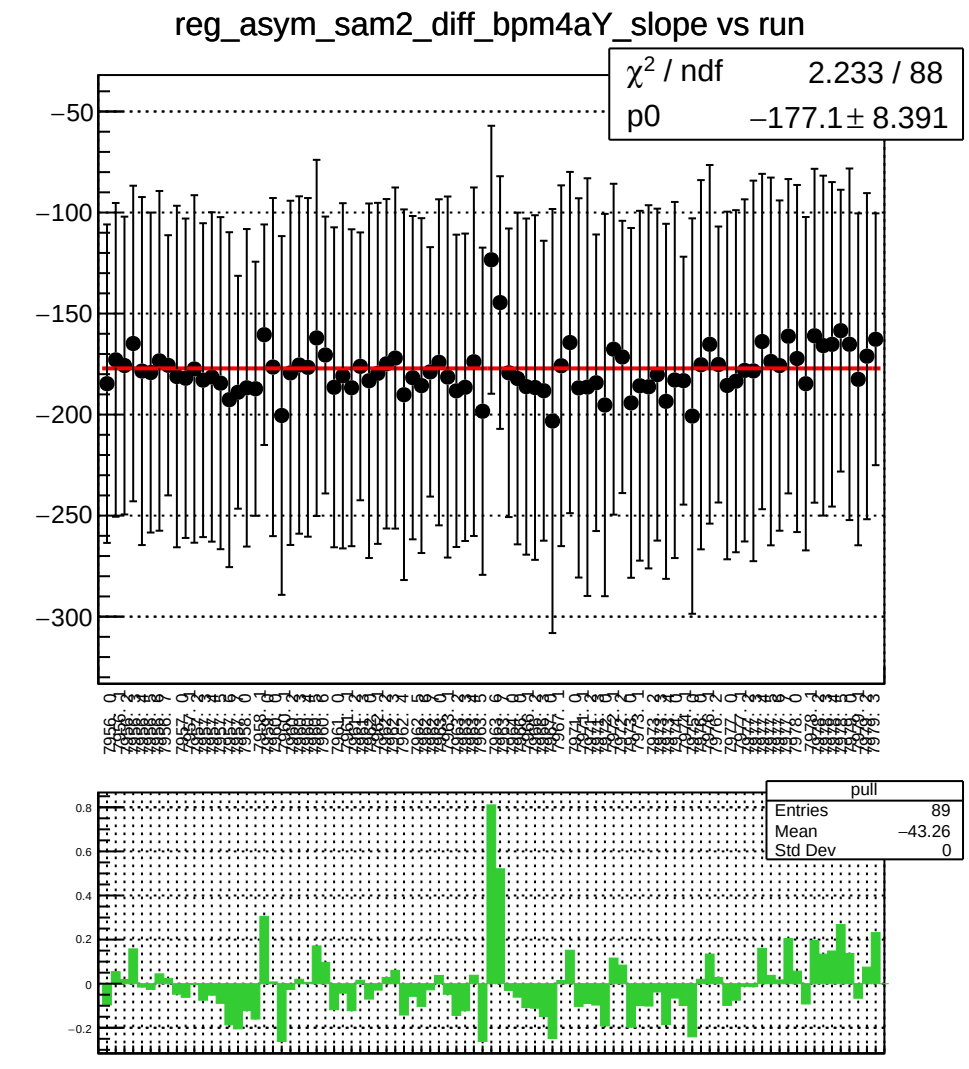

pull1D
Entries 89
Mean 0.01749
Std Dev 0.6835

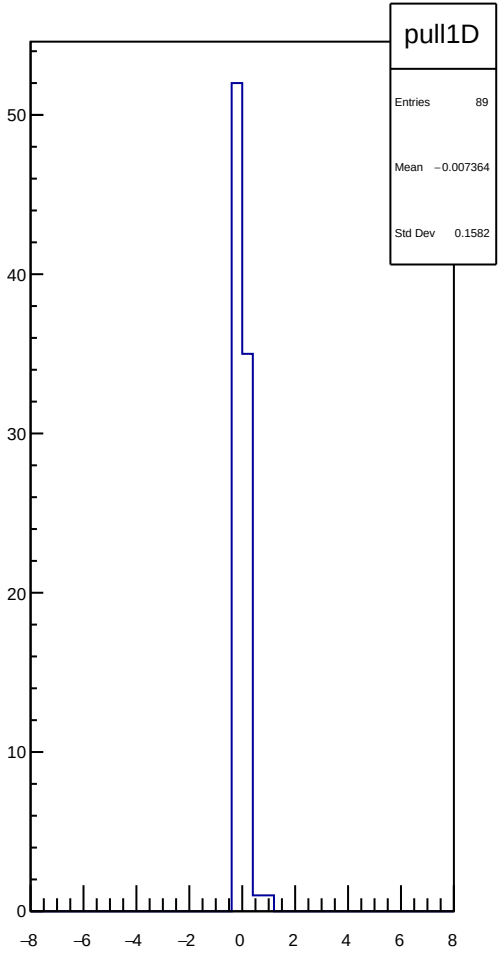

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 27.56 / 88
p0 0.2523 ± 0.01862
pull
Entries 89
Mean −569.9
Std Dev 0

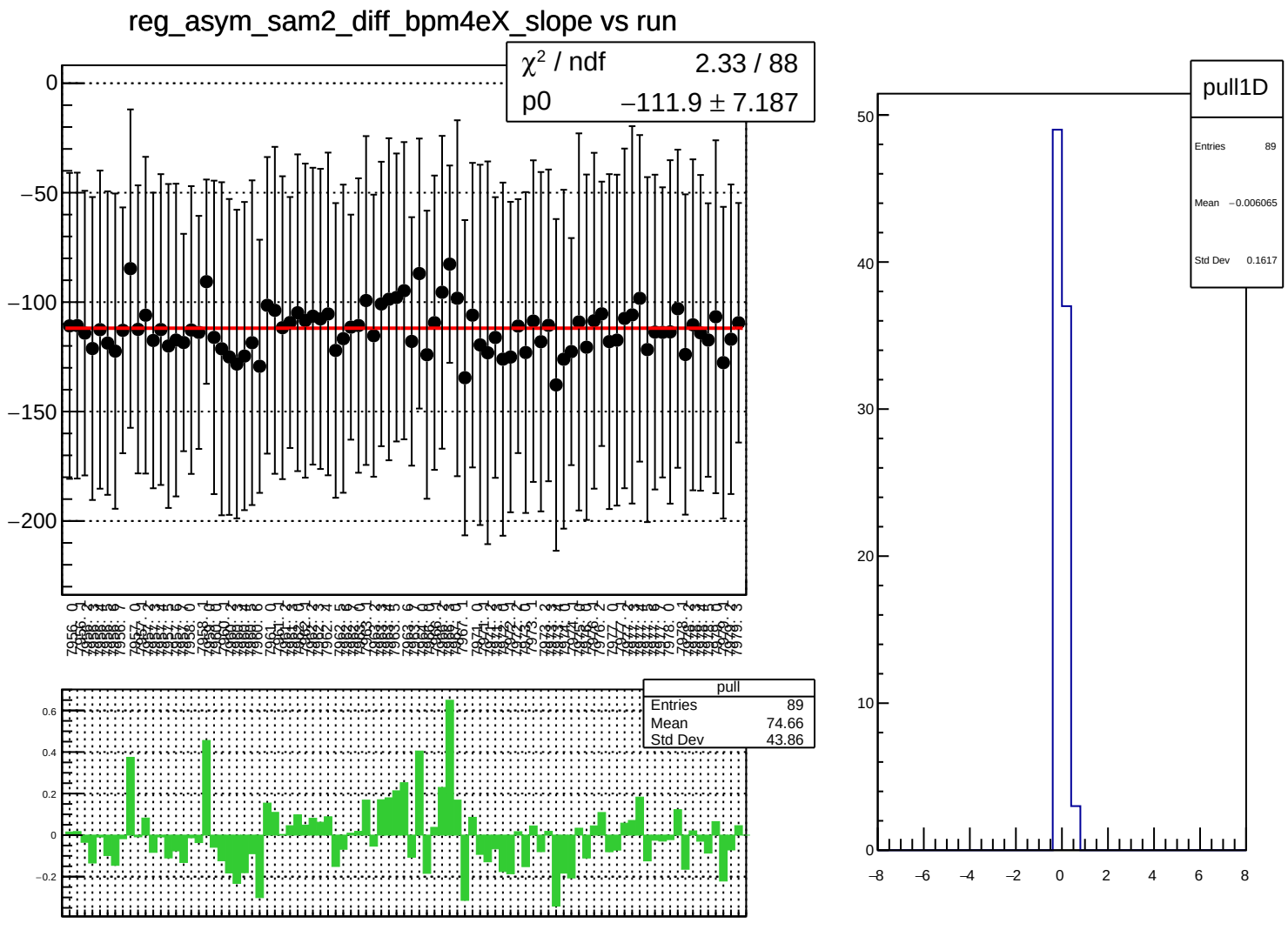

pull1D
Entries 89
Mean 0.01237
Std Dev 0.5563

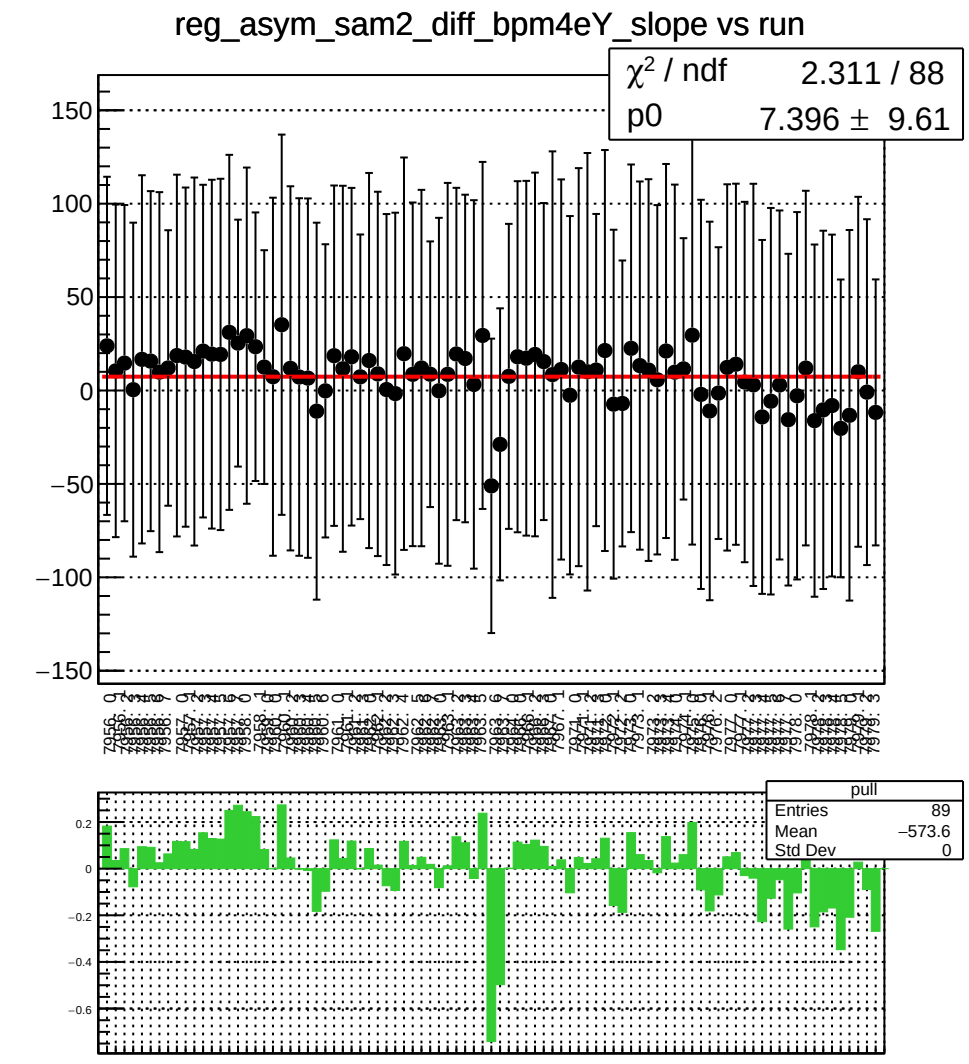

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 5.415 / 88
p0 −117.5 ± 8.11
pull
Entries 89
Mean 403.9
Std Dev 0

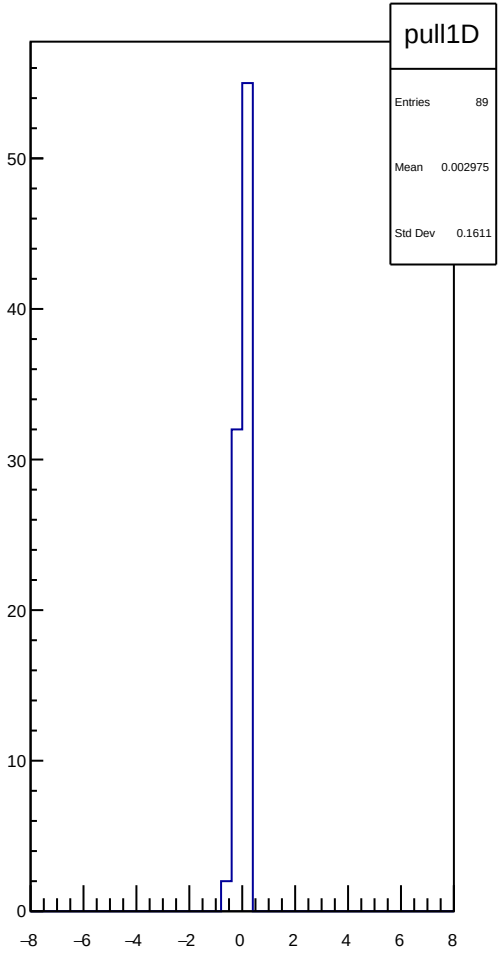

pull1D
Entries 89
Mean −0.003084
Std Dev 0.2466

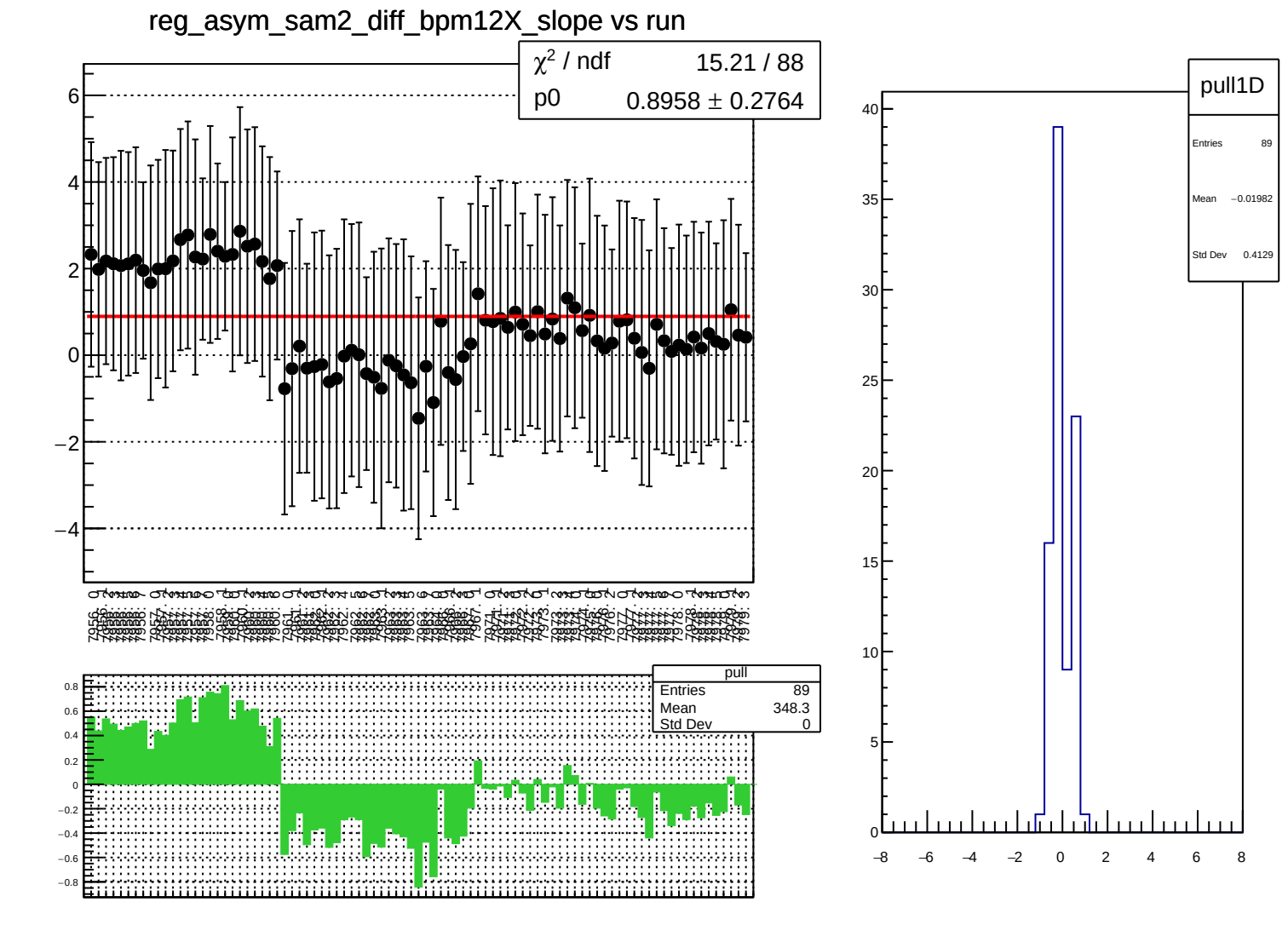

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 2.233 / 88
p0 −177.1 ± 8.391
pull
Entries 89
Mean −43.26
Std Dev 0

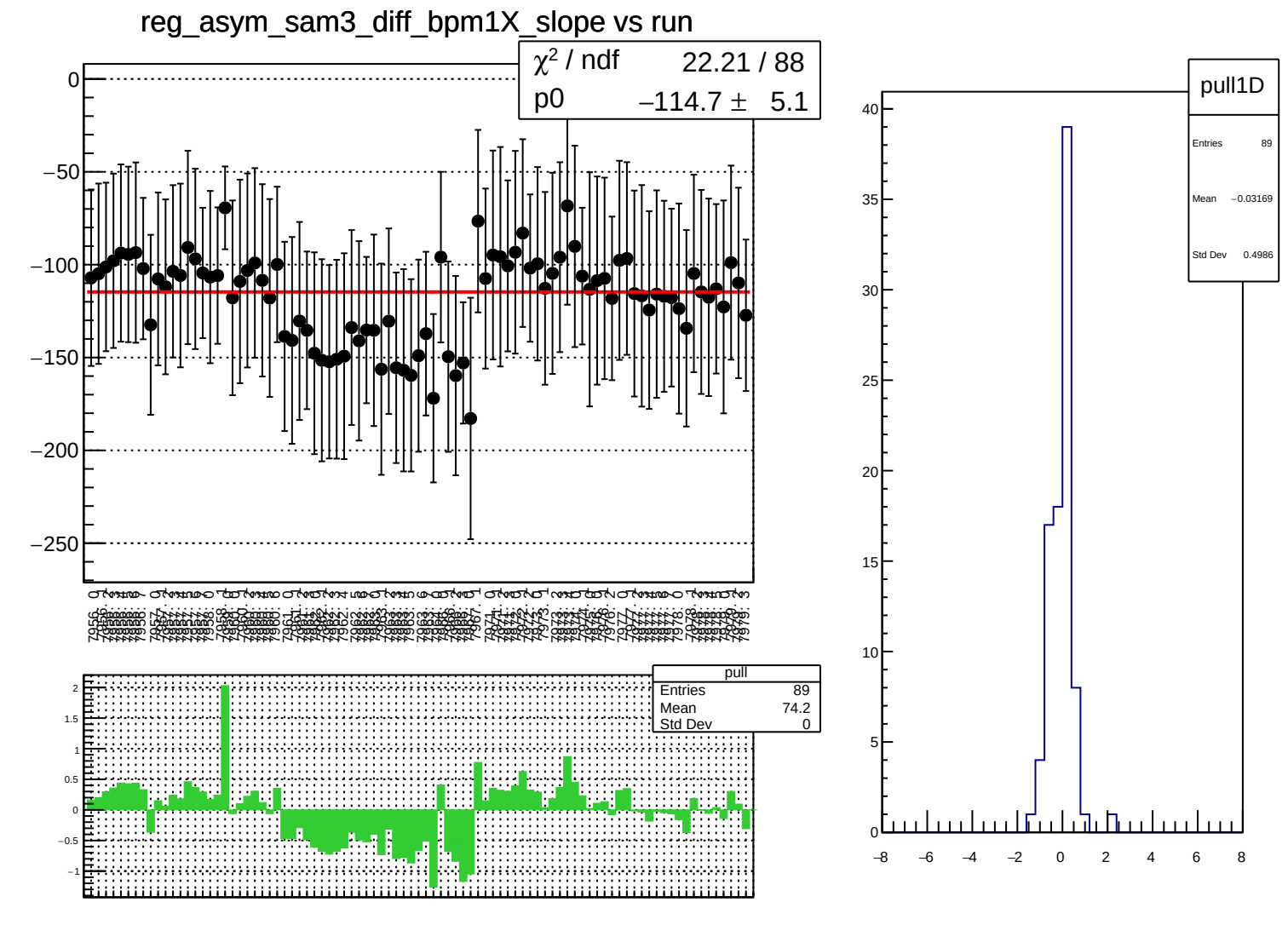

pull1D
Entries 89
Mean −0.007364
Std Dev 0.1582

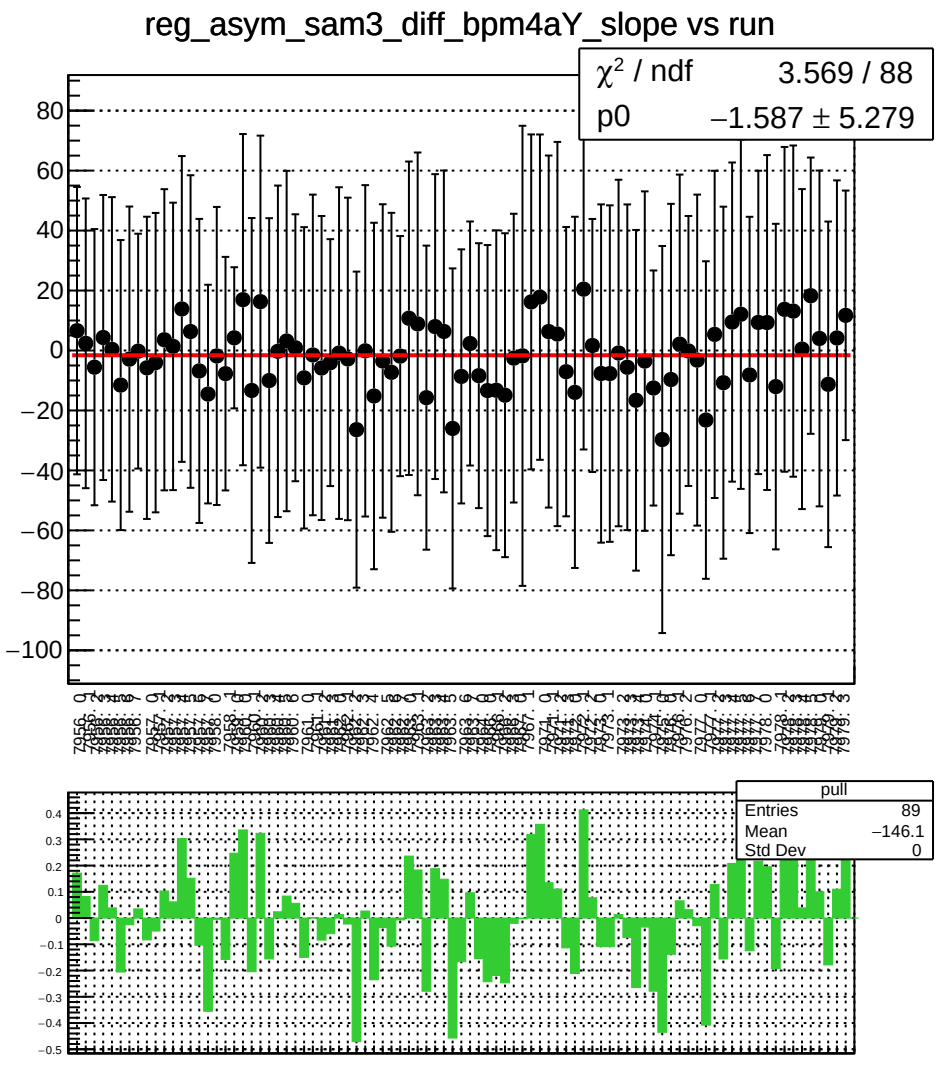

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 2.33 / 88
p0 −111.9 ± 7.187
0
−50
−100
−150
−200
pull
Entries 89
Mean 74.66
Std Dev 43.86
0.6
0.4
0.2
0
−0.2
pull1D
Entries 89
Mean −0.006065
Std Dev 0.1617
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

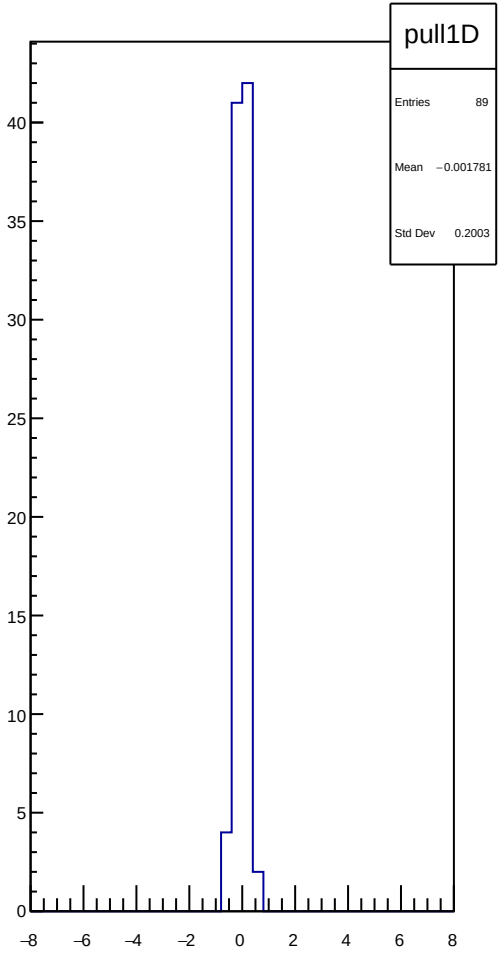

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 2.311 / 88
p0 7.396 ± 9.61
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −573.6
Std Dev 0
0.2
0
−0.2
−0.4
−0.6

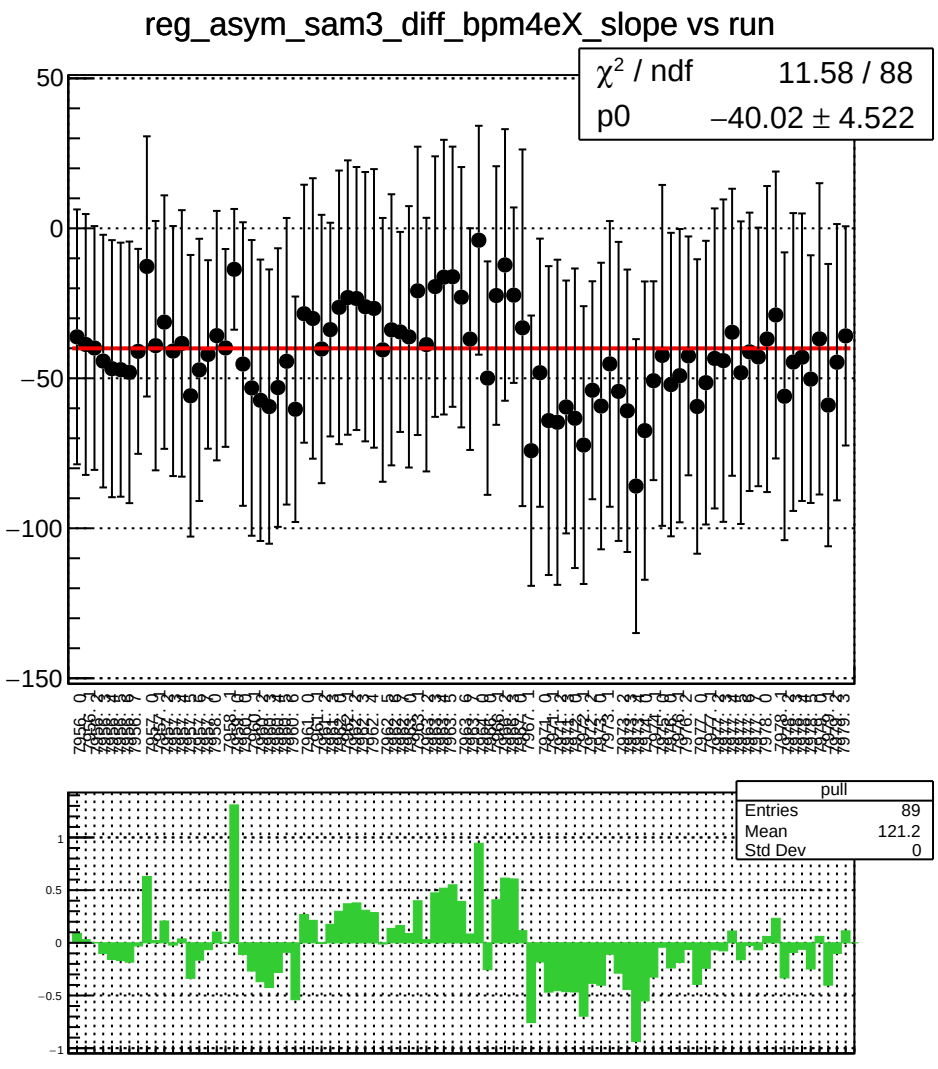

pull1D
Entries 89
Mean 0.002975
Std Dev 0.1611
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

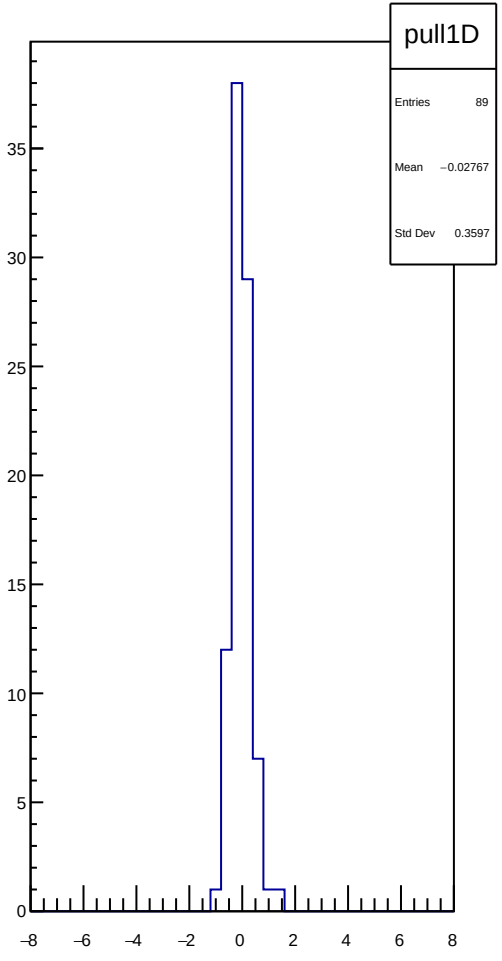

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 15.21 / 88
p0 0.8958 ± 0.2764
pull
Entries 89
Mean 348.3
Std Dev 0
pull1D
Entries 89
Mean −0.01982
Std Dev 0.4129

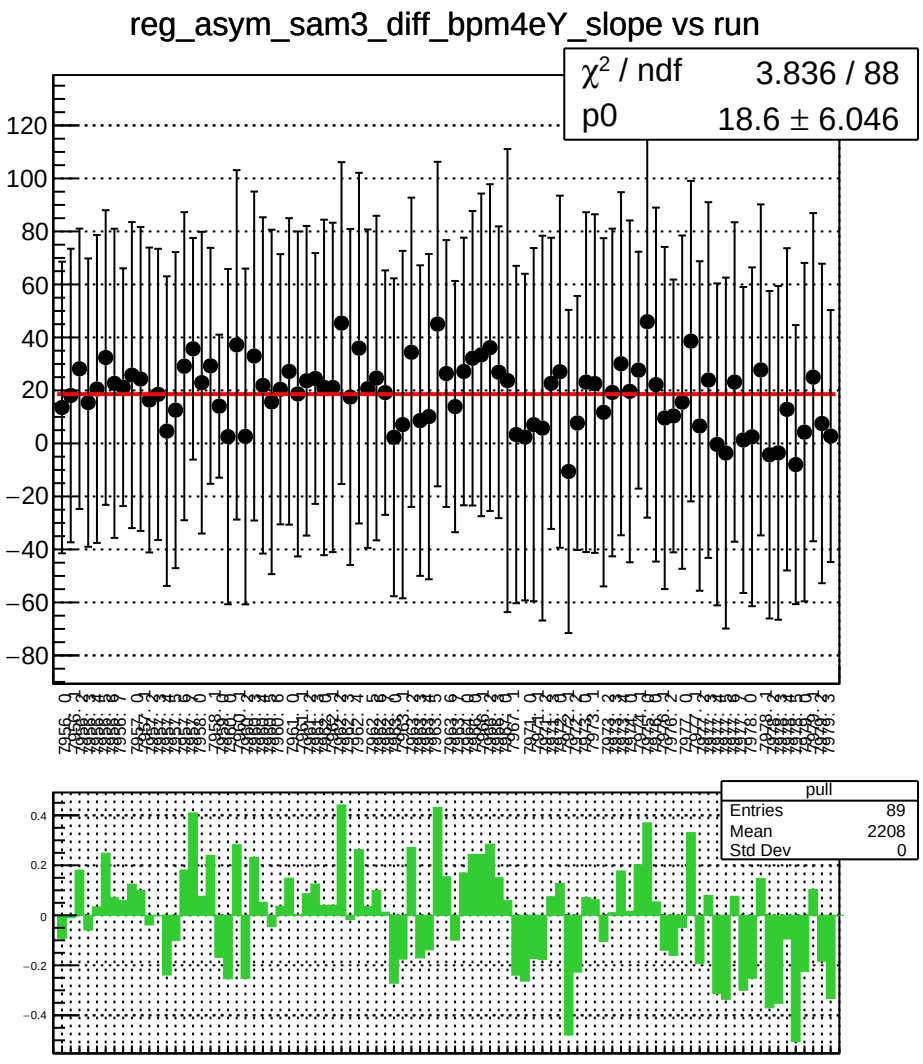

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 22.21 / 88
p0 −114.7 ± 5.1
pull
Entries 89
Mean 74.2
Std Dev 0
pull1D
Entries 89
Mean −0.03169
Std Dev 0.4986

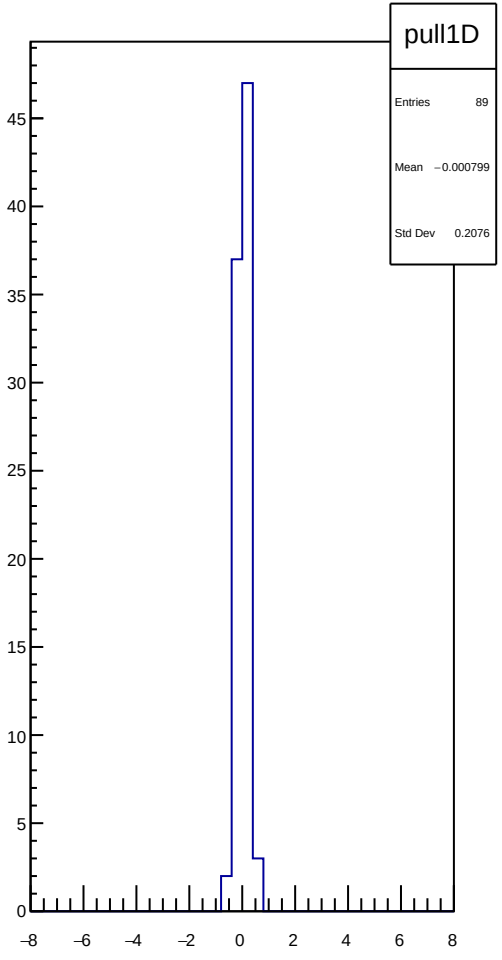

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 3.569 / 88
p0 −1.587 ± 5.279
pull
Entries 89
Mean −146.1
Std Dev 0

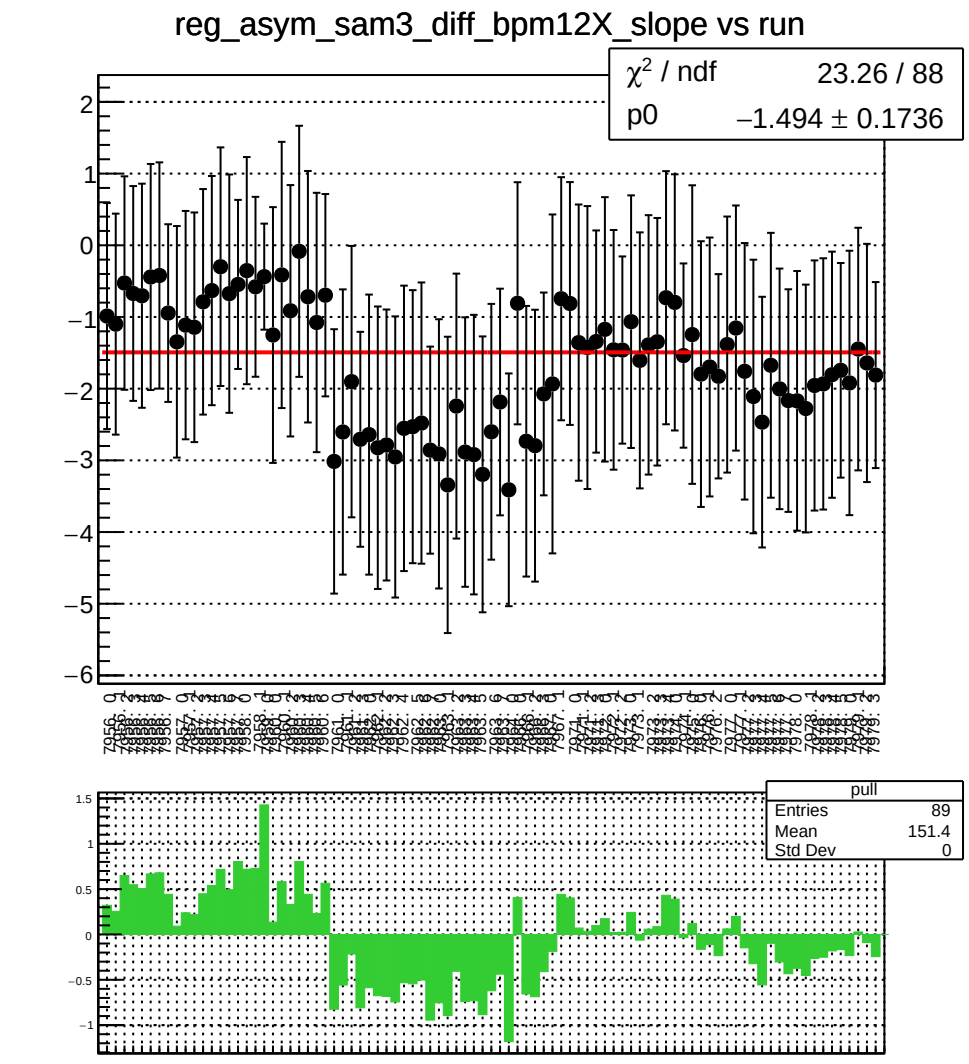

pull1D
Entries 89
Mean −0.001781
Std Dev 0.2003

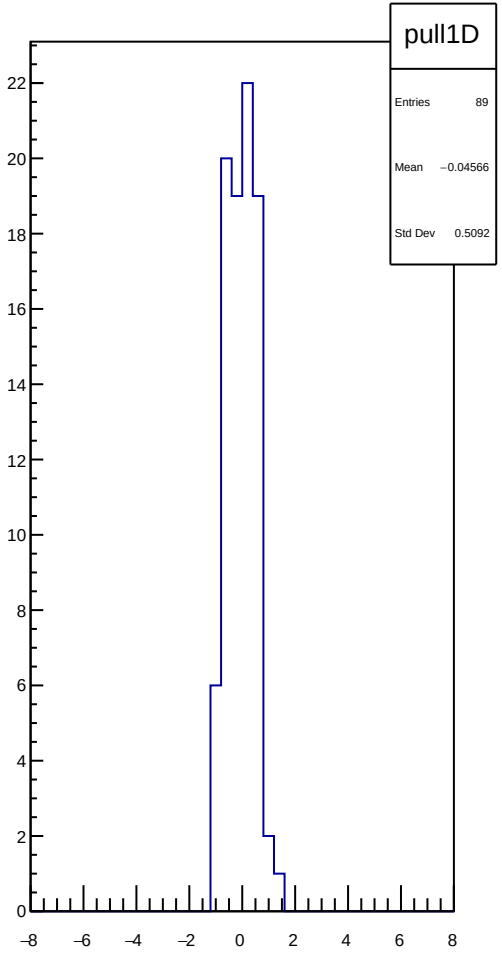

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 11.58 / 88
p0 −40.02 ± 4.522
pull
Entries 89
Mean 121.2
Std Dev 0

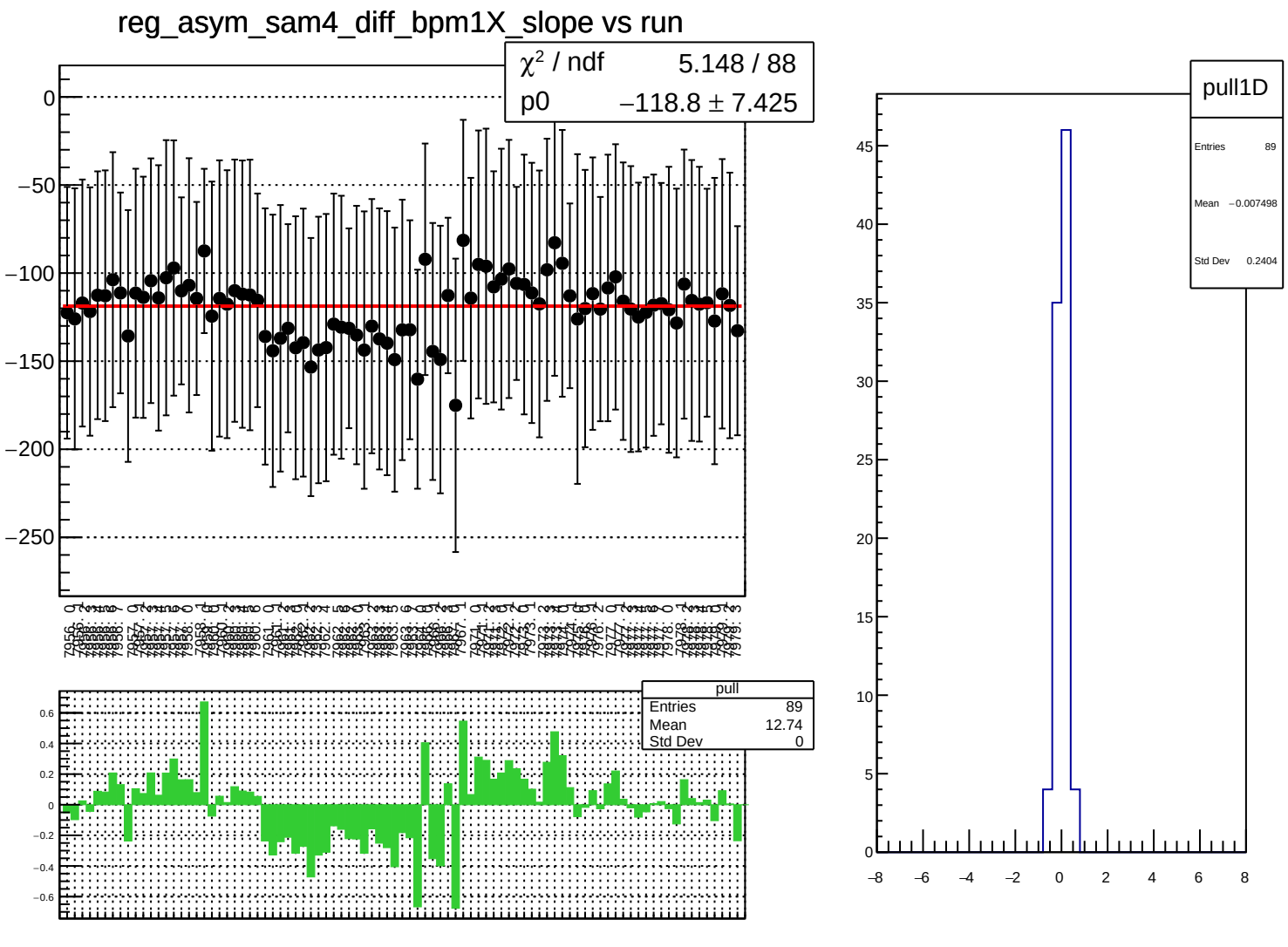

pull1D
Entries 89
Mean −0.02767
Std Dev 0.3597

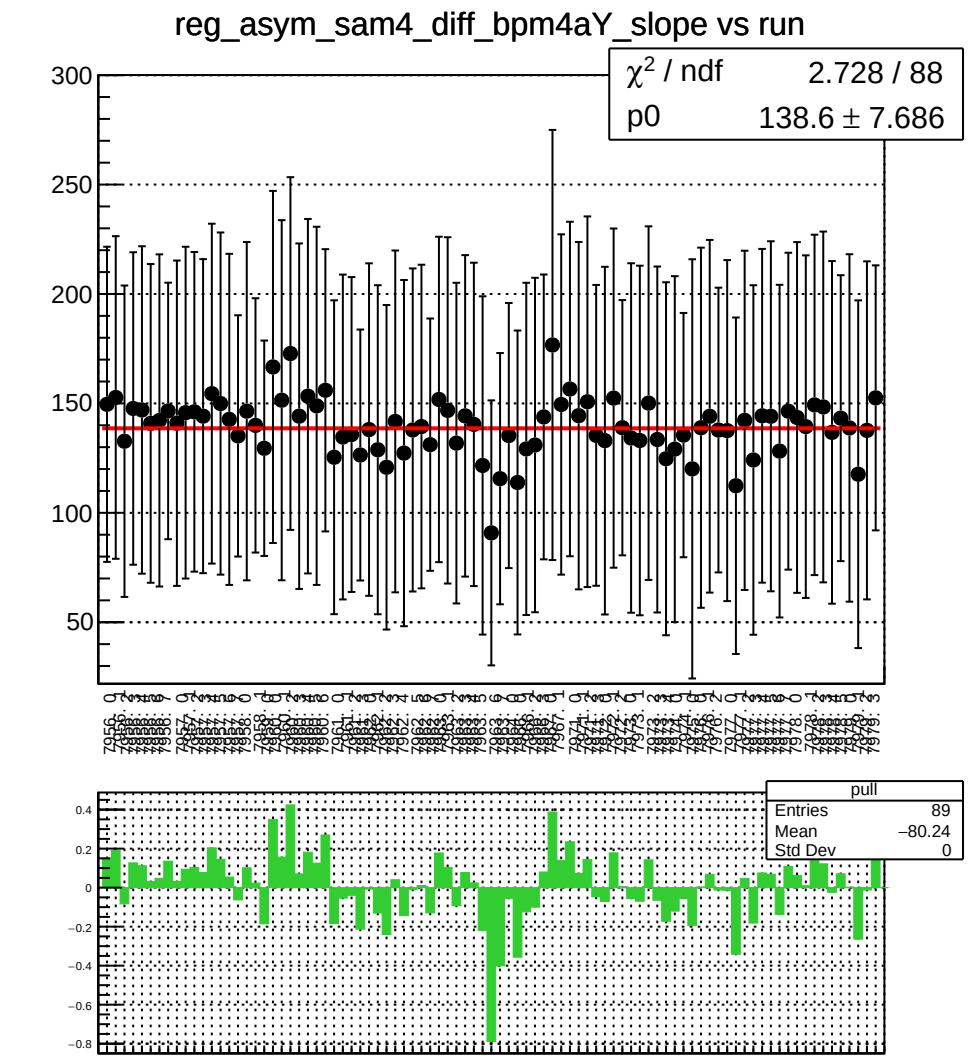

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 3.836 / 88
p0 18.6 ± 6.046
pull
Entries 89
Mean 2208
Std Dev 0

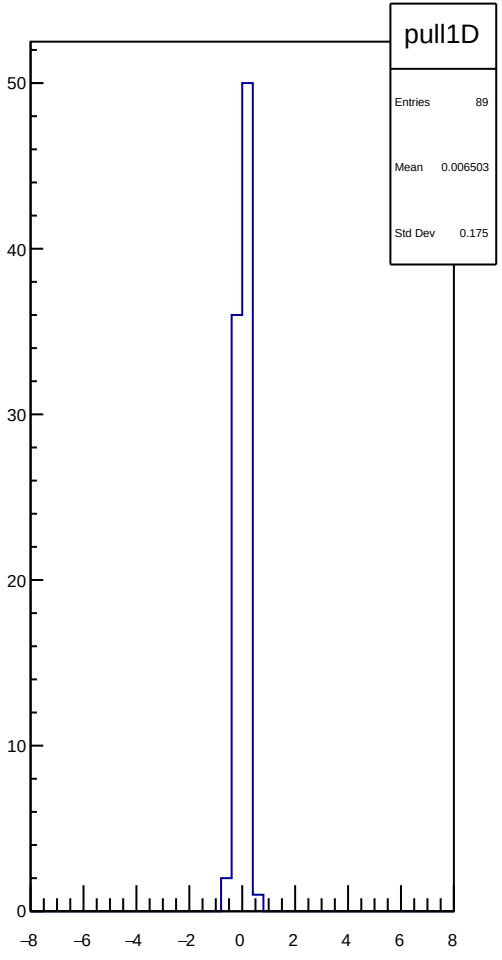

pull1D
Entries 89
Mean −0.000799
Std Dev 0.2076

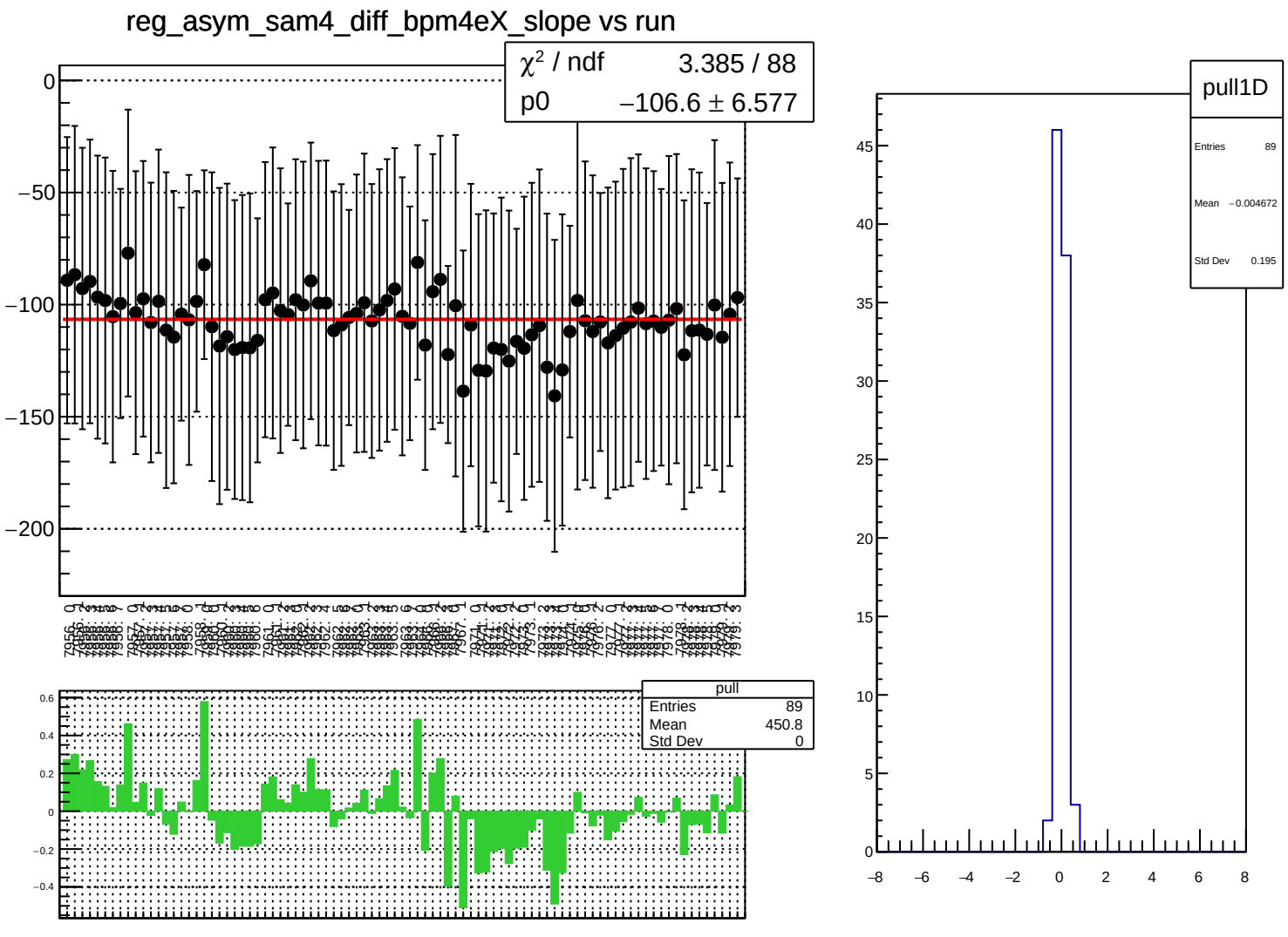

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 23.26 / 88
p0 −1.494 ± 0.1736
pull
Entries 89
Mean 151.4
Std Dev 0

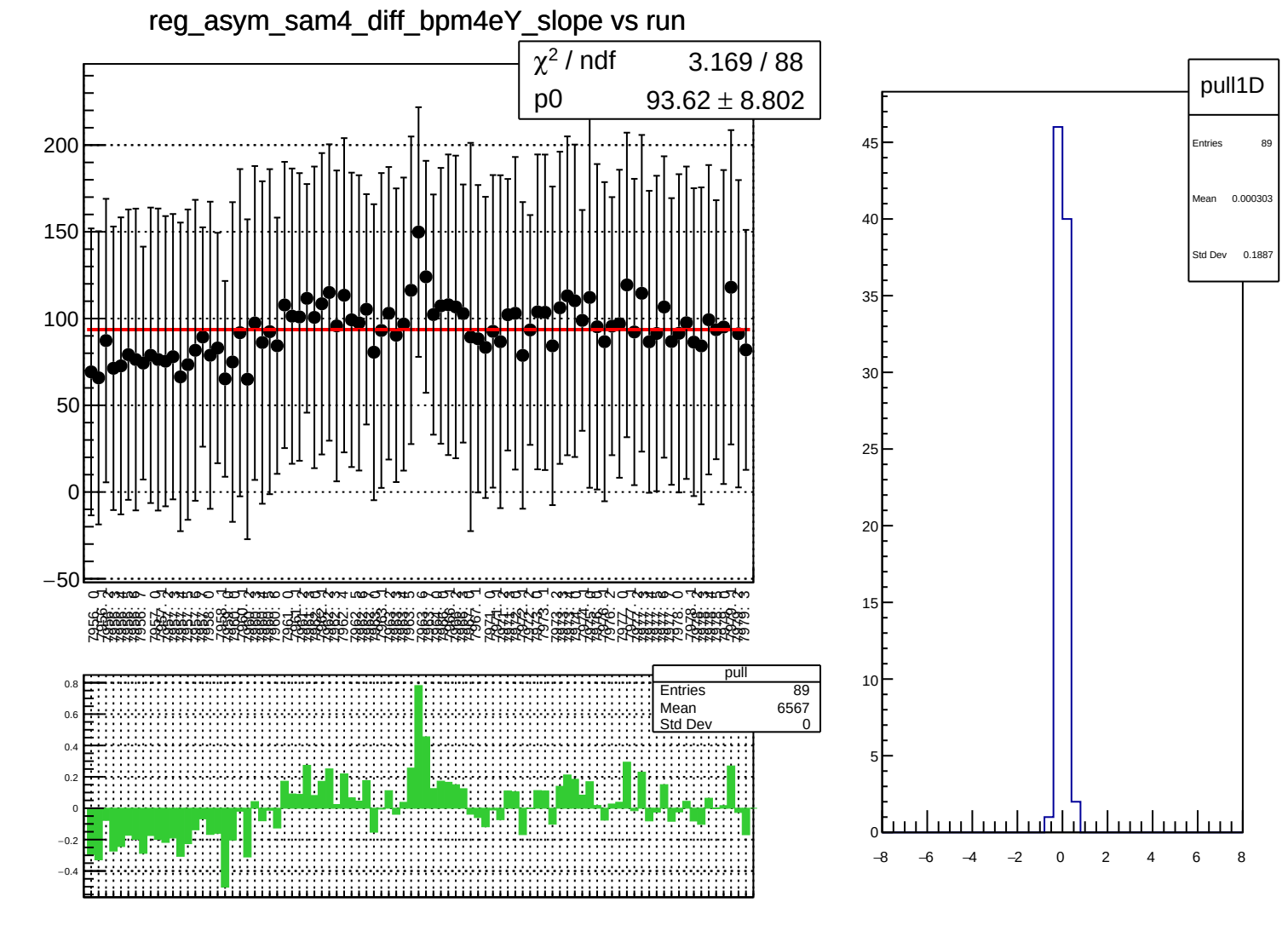

pull1D
Entries 89
Mean −0.04566
Std Dev 0.5092

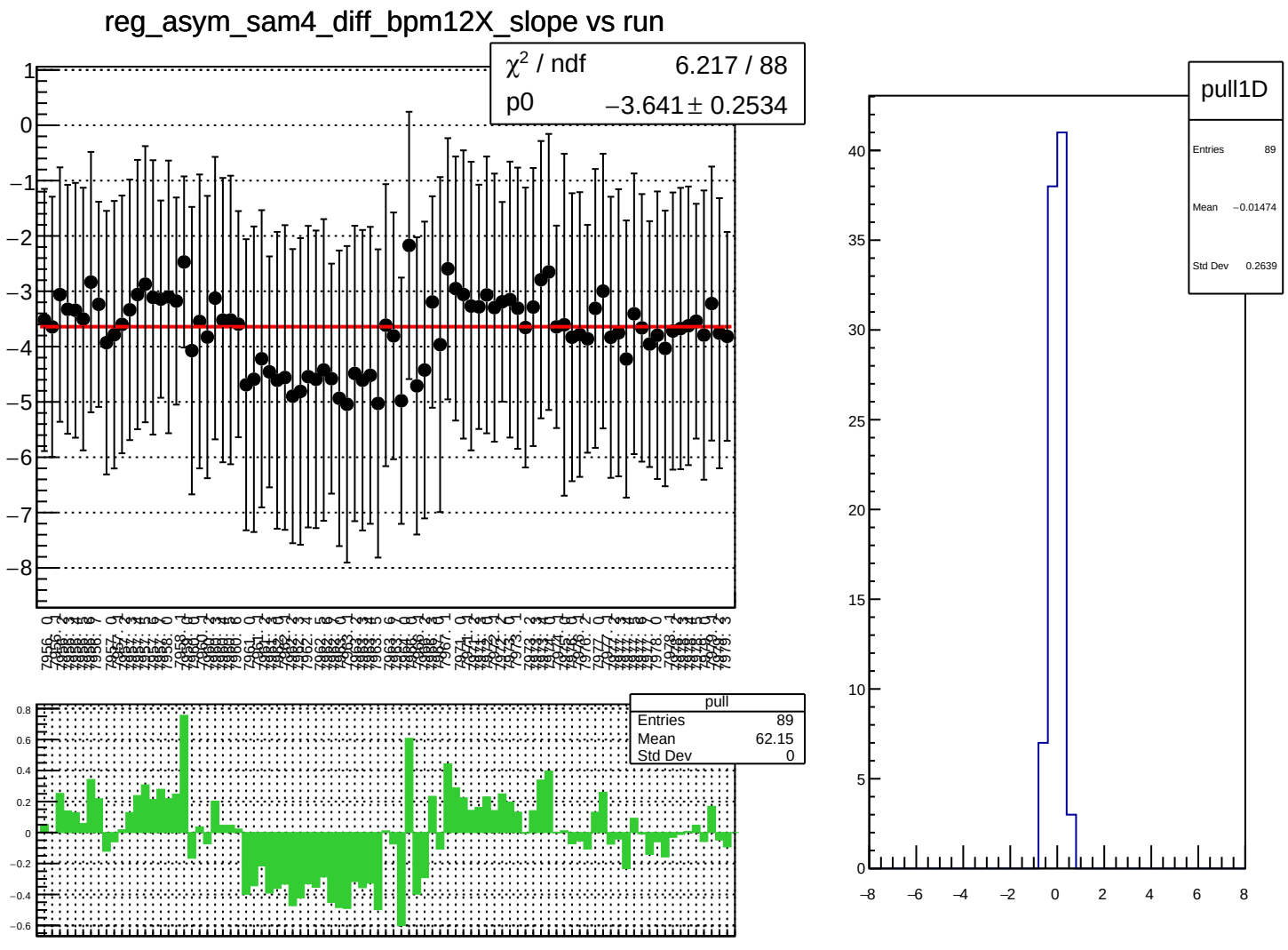

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 5.148 / 88
p0 −118.8 ± 7.425
pull
Entries 89
Mean 12.74
Std Dev 0
pull1D
Entries 89
Mean −0.007498
Std Dev 0.2404

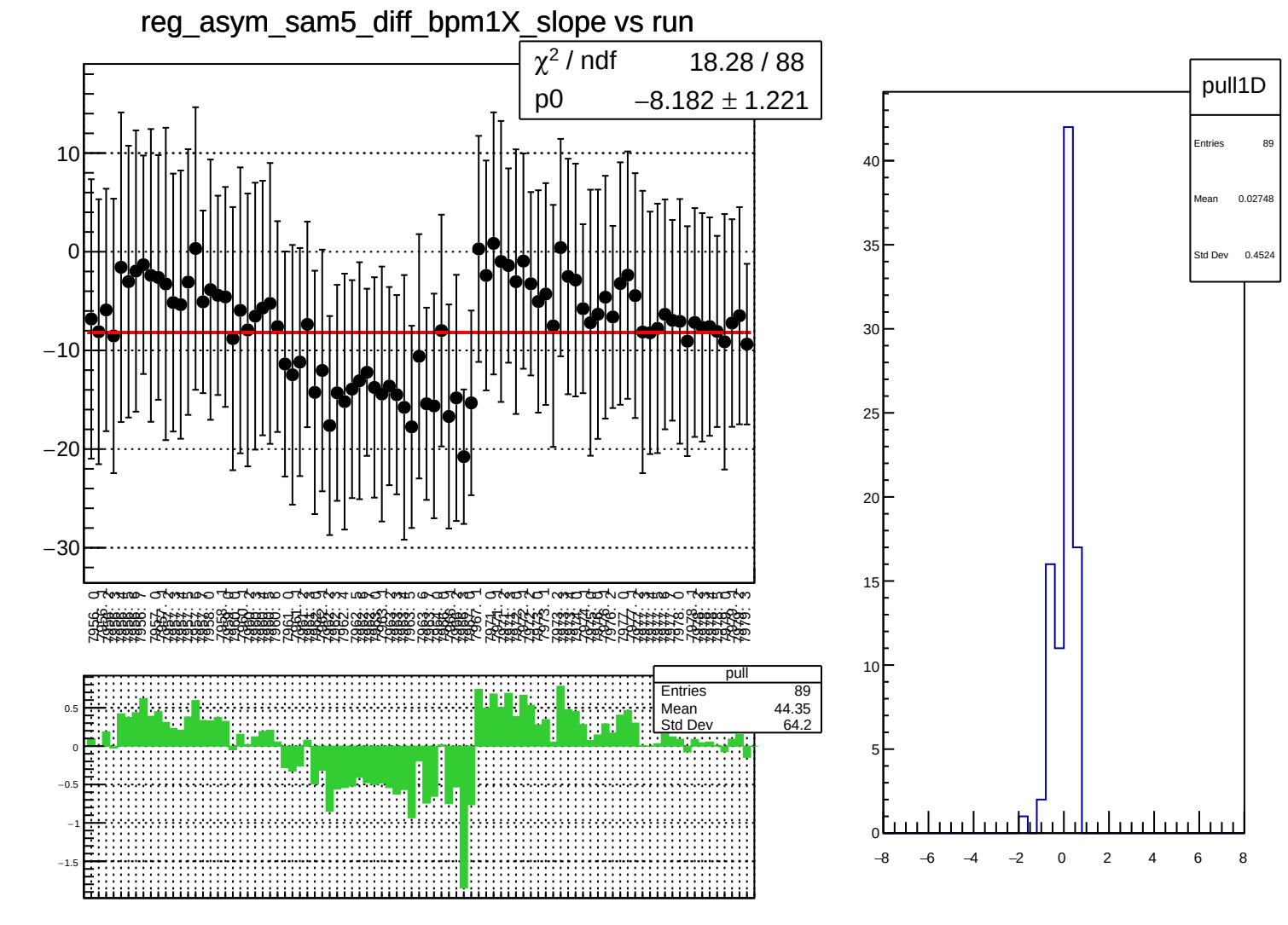

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 2.728 / 88
p0 138.6 ± 7.686
pull
Entries 89
Mean −80.24
Std Dev 0

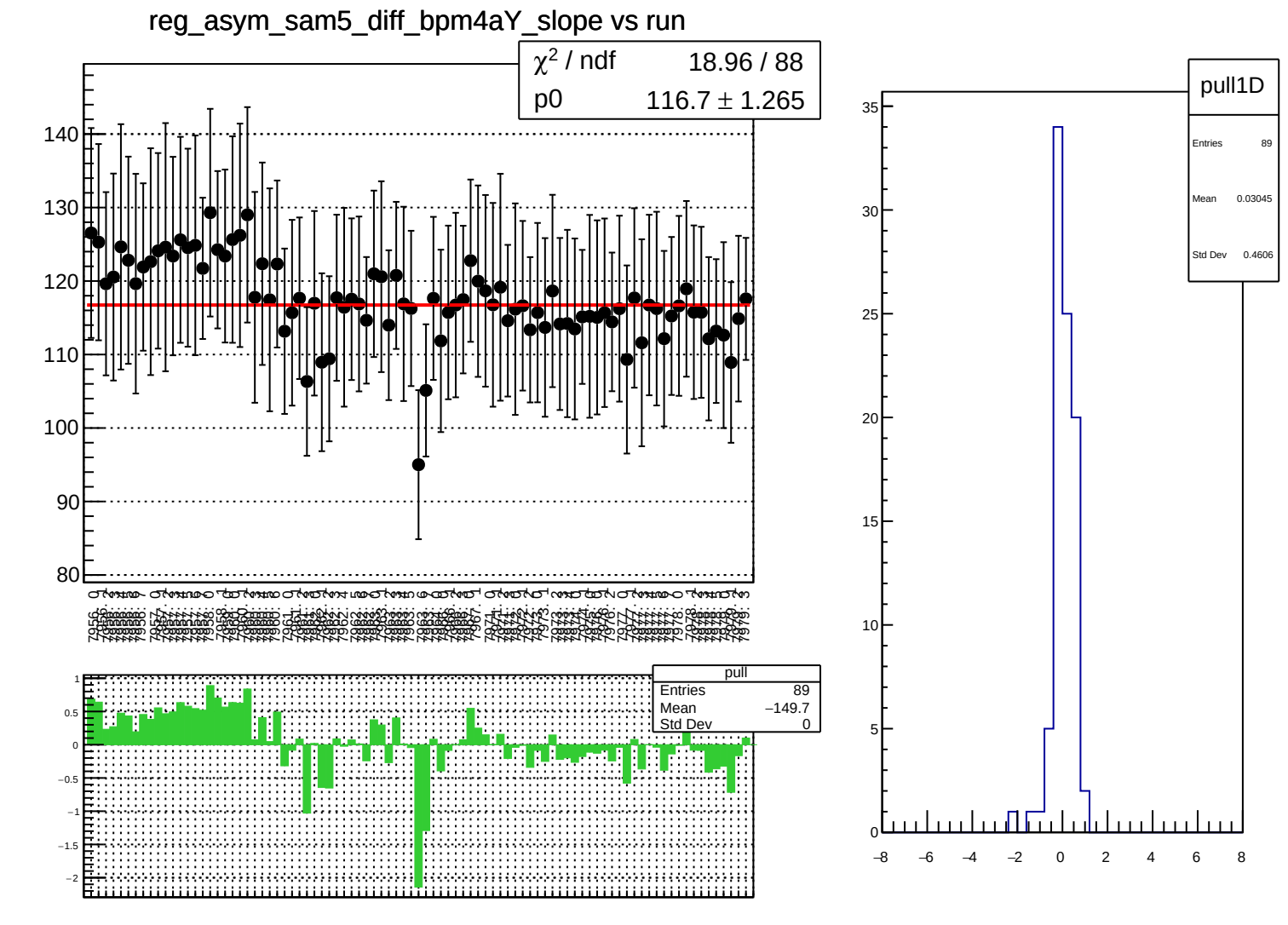

pull1D
Entries 89
Mean 0.006503
Std Dev 0.175

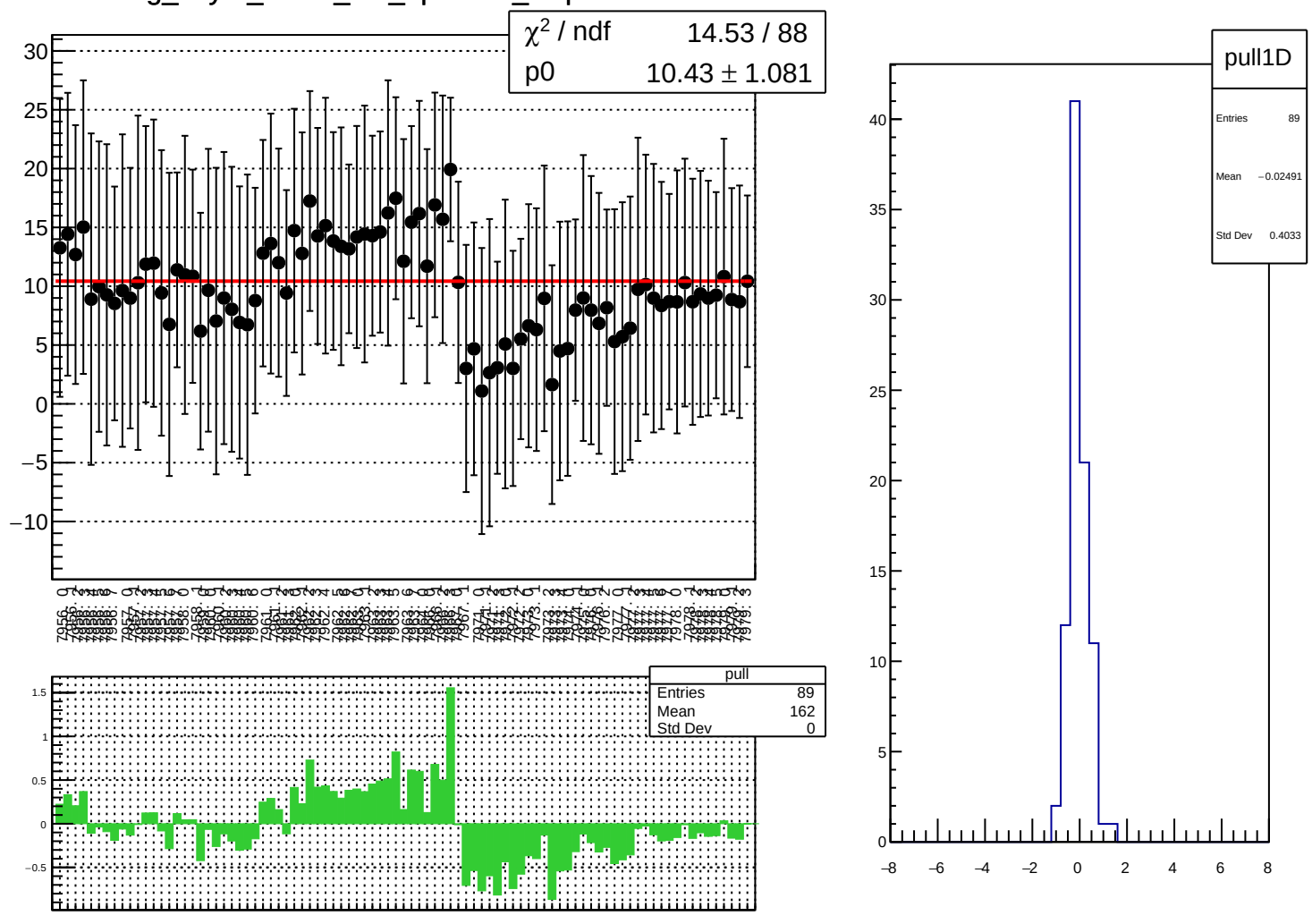

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 3.385 / 88
p0 −106.6 ± 6.577
pull
Entries 89
Mean 450.8
Std Dev 0
pull1D
Entries 89
Mean −0.004672
Std Dev 0.195

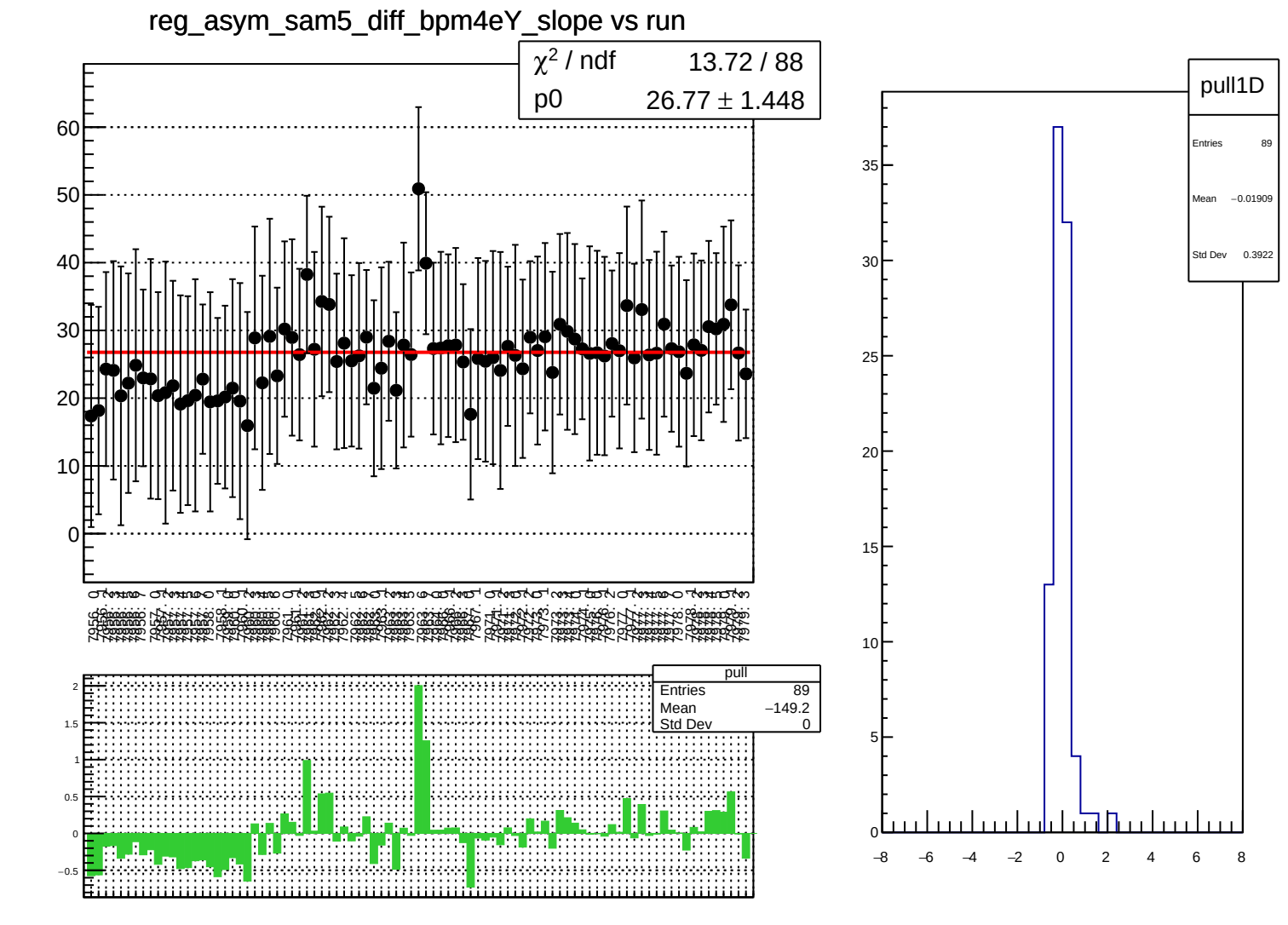

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 3.169 / 88
p0 93.62 ± 8.802
pull
Entries 89
Mean 6567
Std Dev 0
pull1D
Entries 89
Mean 0.000303
Std Dev 0.1887

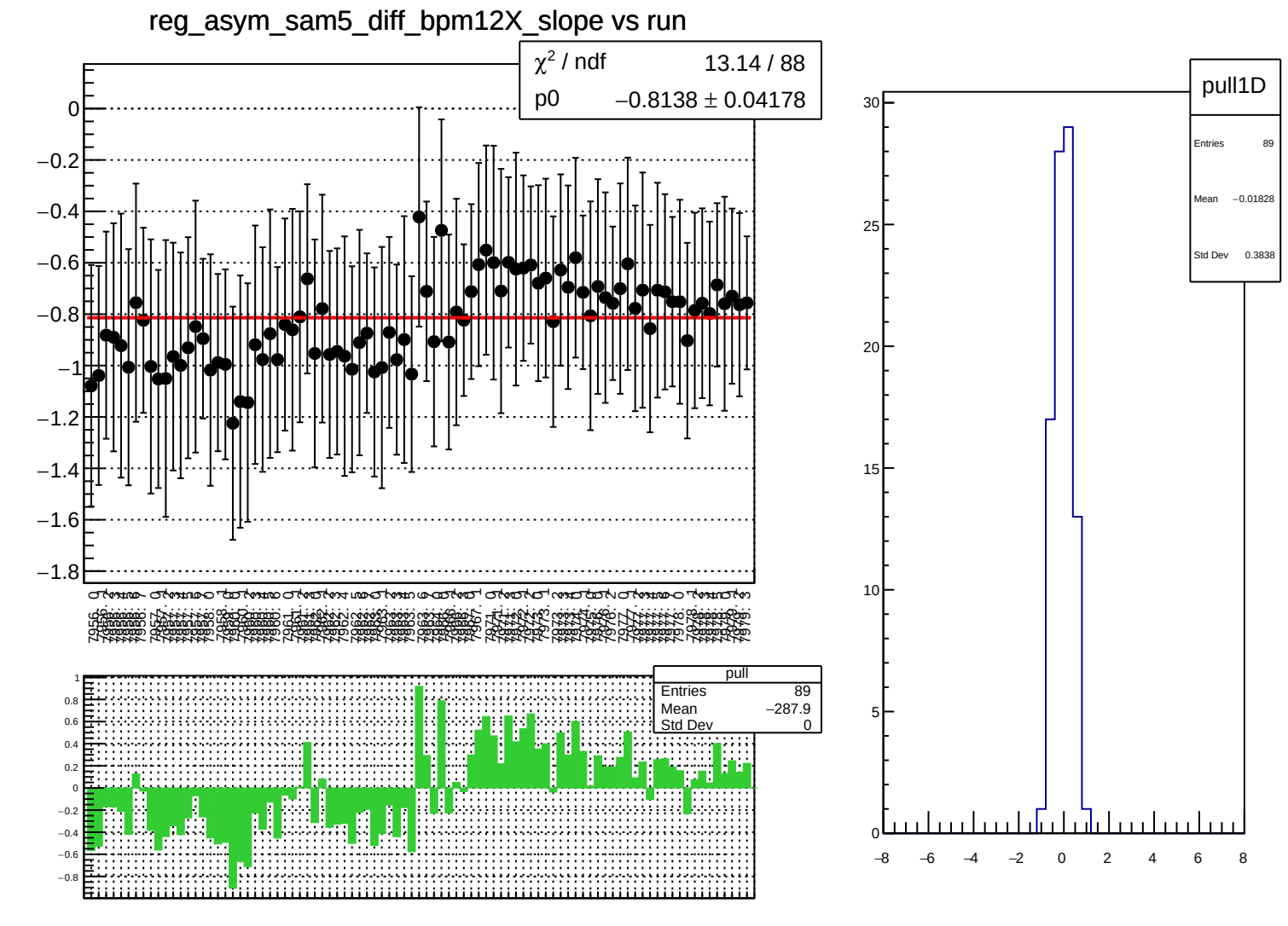

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 6.217 / 88
p0 −3.641 ± 0.2534
pull
Entries 89
Mean 62.15
Std Dev 0
pull1D
Entries 89
Mean −0.01474
Std Dev 0.2639

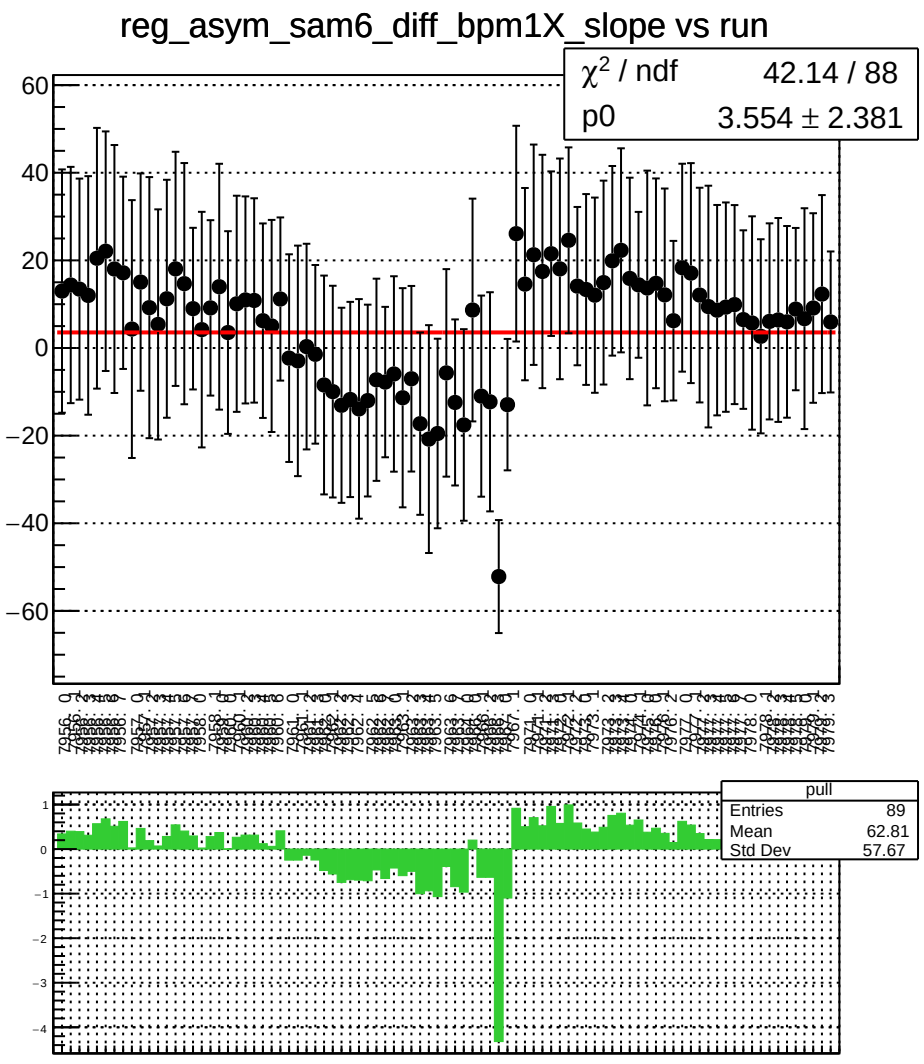

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 18.28 / 88
p0 −8.182 ± 1.221
pull
Entries 89
Mean 44.35
Std Dev 64.2
pull1D
Entries 89
Mean 0.02748
Std Dev 0.4524

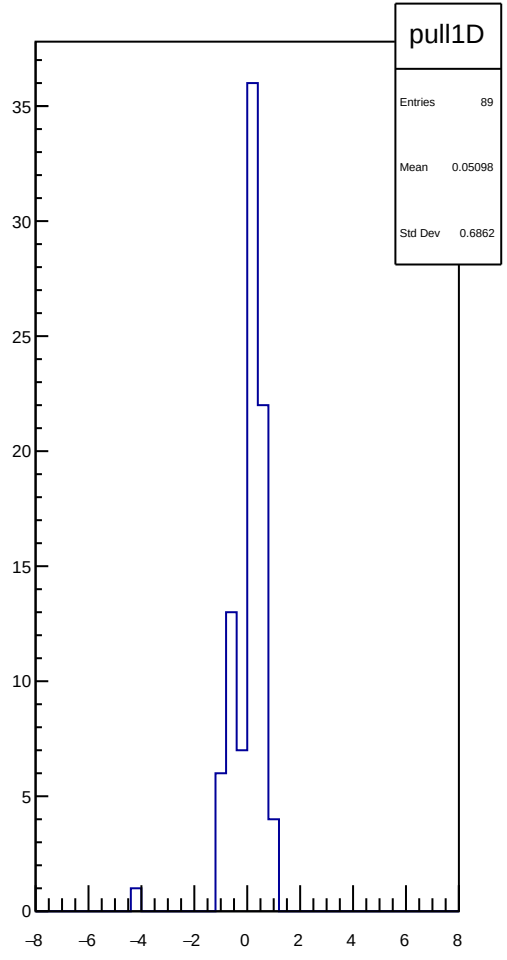

reg_asym_sam5_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 18.96 / 88
p0 116.7 ± 1.265
pull
Entries 89
Mean −149.7
Std Dev 0
pull1D
Entries 89
Mean 0.03045
Std Dev 0.4606

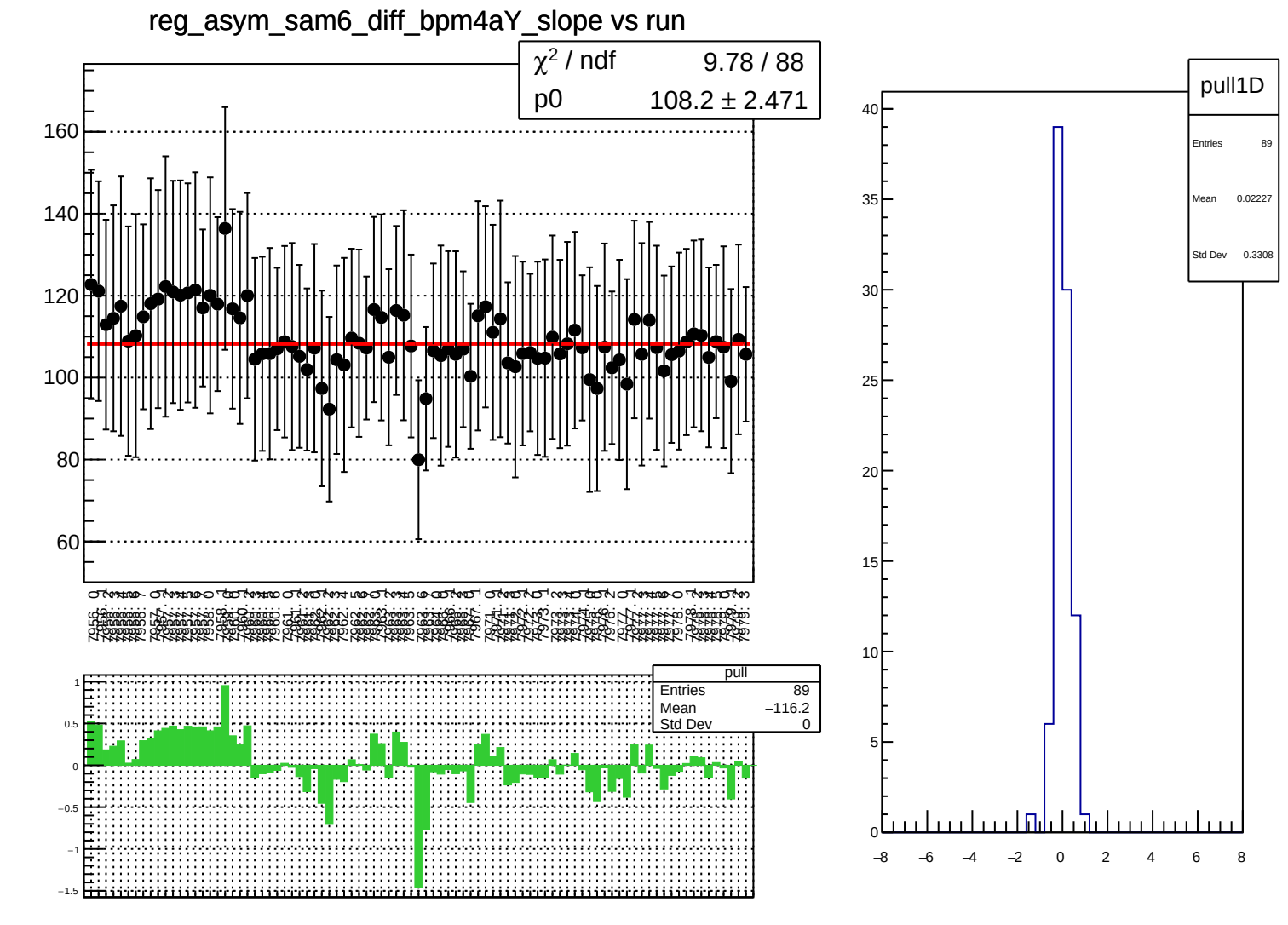

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 14.53 / 88
p0 10.43 ± 1.081
pull
Entries 89
Mean 162
Std Dev 0
pull1D
Entries 89
Mean −0.02491
Std Dev 0.4033

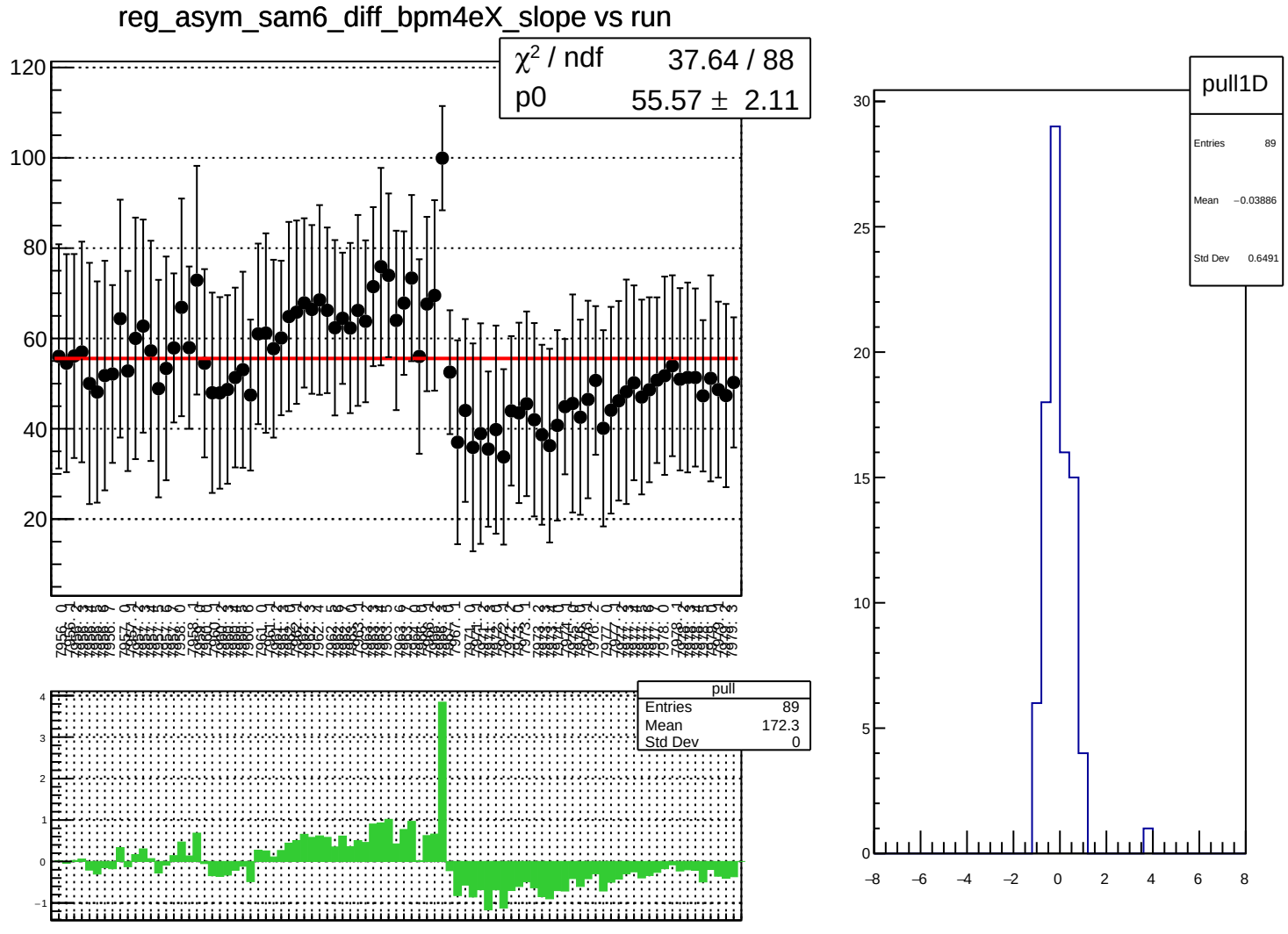

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 13.72 / 88
p0 26.77 ± 1.448
pull
Entries 89
Mean −149.2
Std Dev 0
pull1D
Entries 89
Mean −0.01909
Std Dev 0.3922

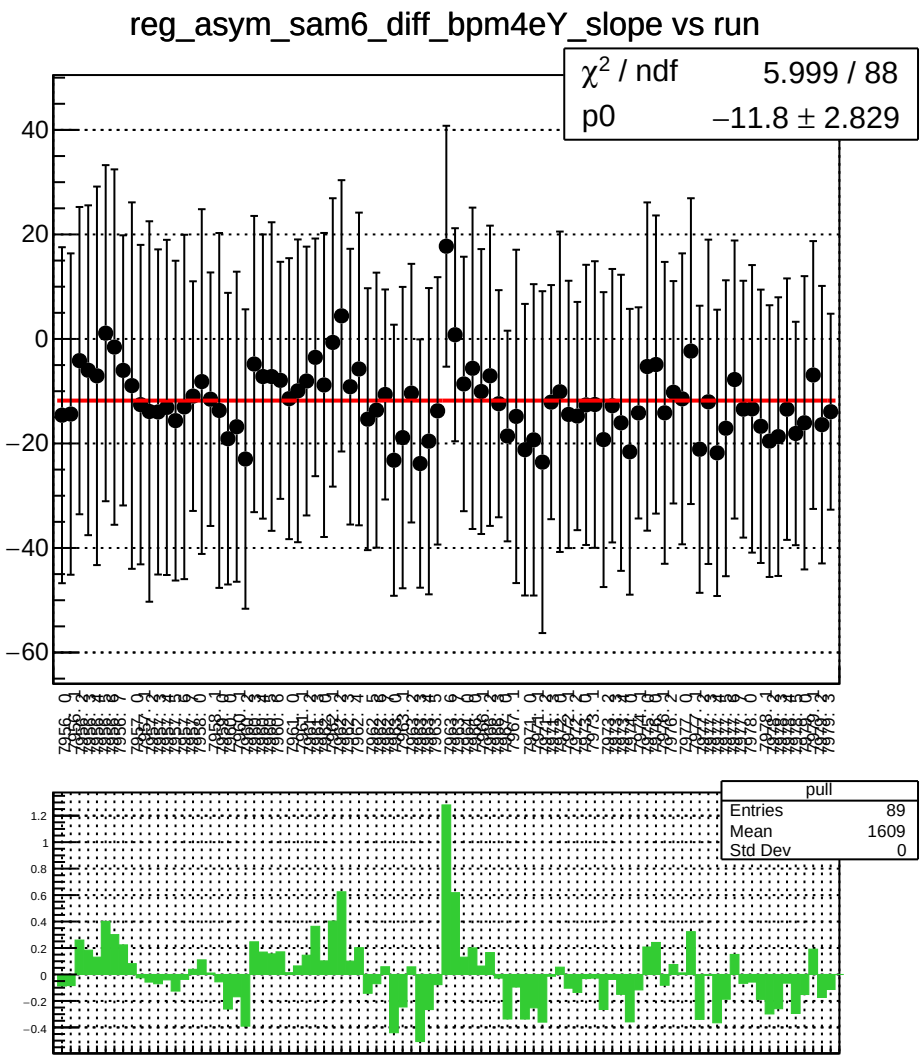

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 13.14 / 88
p0 −0.8138 ± 0.04178
pull
Entries 89
Mean −287.9
Std Dev 0
pull1D
Entries 89
Mean −0.01828
Std Dev 0.3838

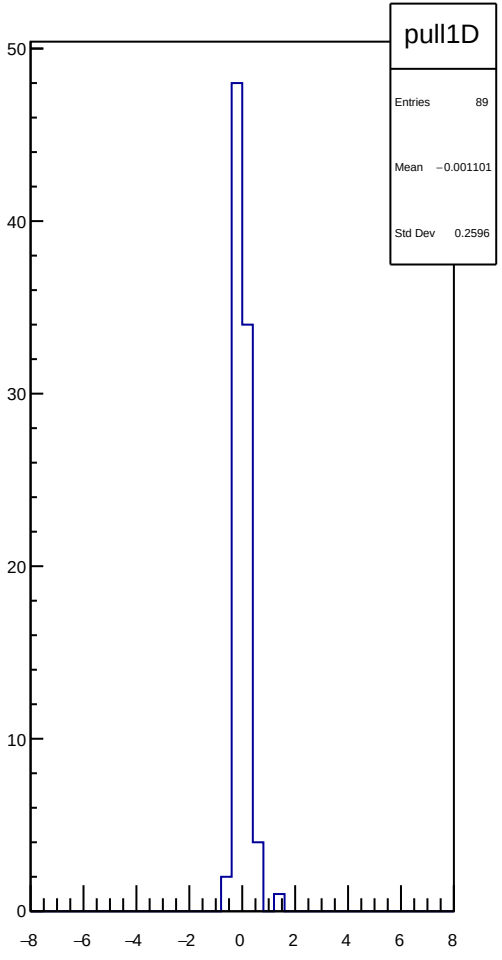

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 42.14 / 88
p0 3.554 ± 2.381
pull
Entries 89
Mean 62.81
Std Dev 57.67

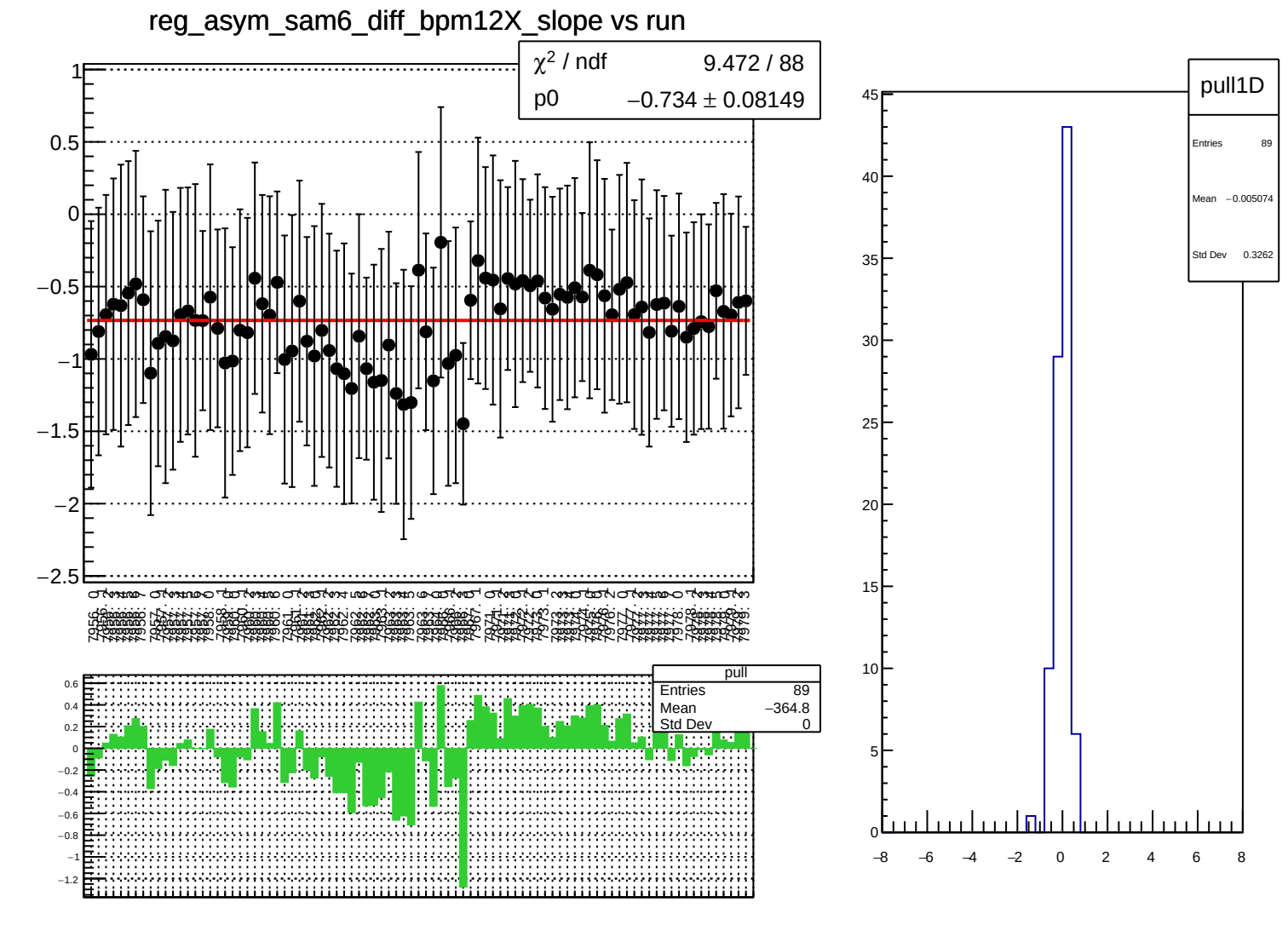

pull1D
Entries 89
Mean 0.05098
Std Dev 0.6862

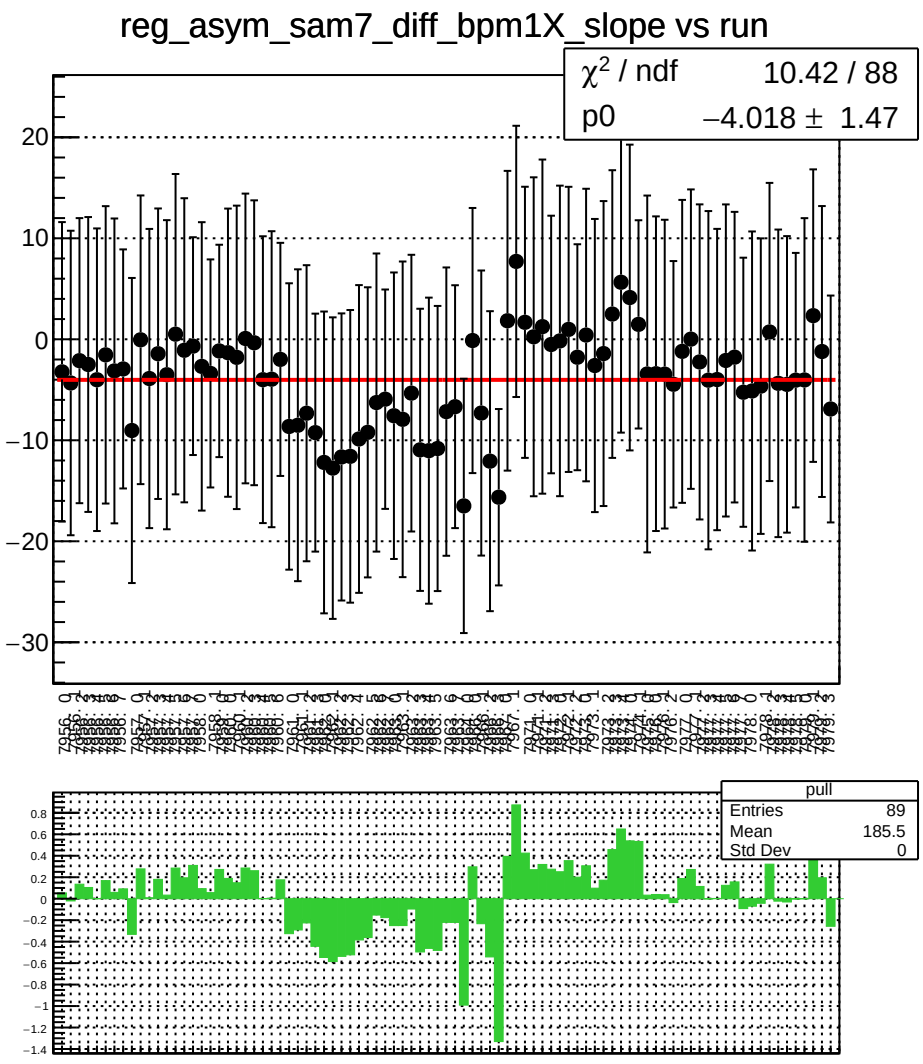

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 9.78 / 88
p0 108.2 ± 2.471
160
140
120
100
80
60
pull
Entries 89
Mean −116.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.02227
Std Dev 0.3308
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

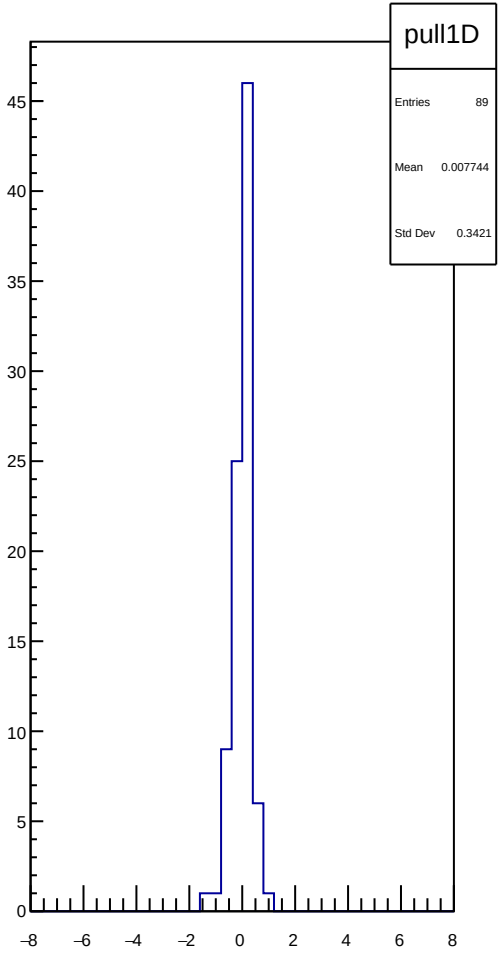

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 37.64 / 88
p0 55.57 ± 2.11
pull
Entries 89
Mean 172.3
Std Dev 0
pull1D
Entries 89
Mean −0.03886
Std Dev 0.6491

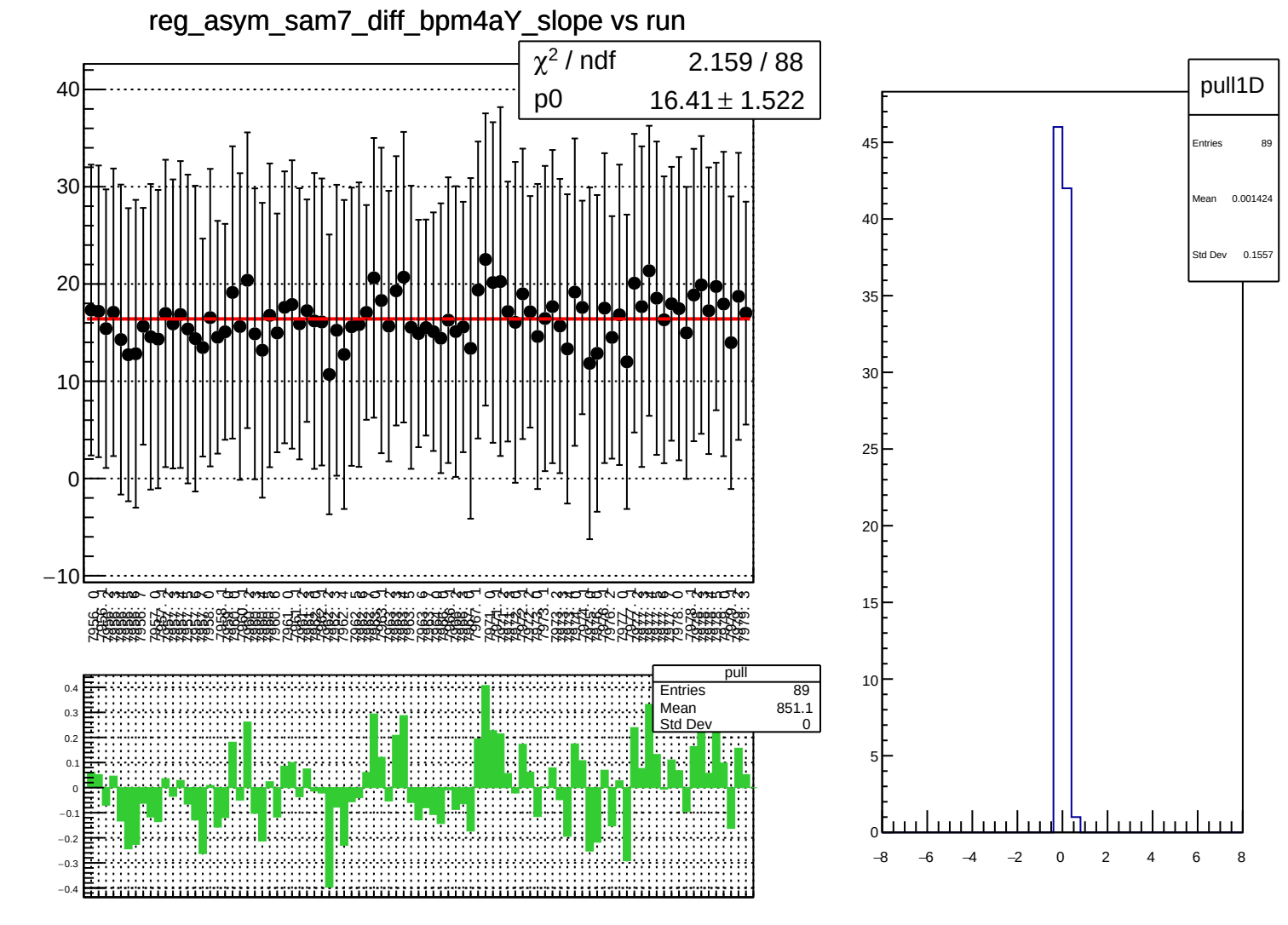

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 5.999 / 88
p0 −11.8 ± 2.829
pull
Entries 89
Mean 1609
Std Dev 0

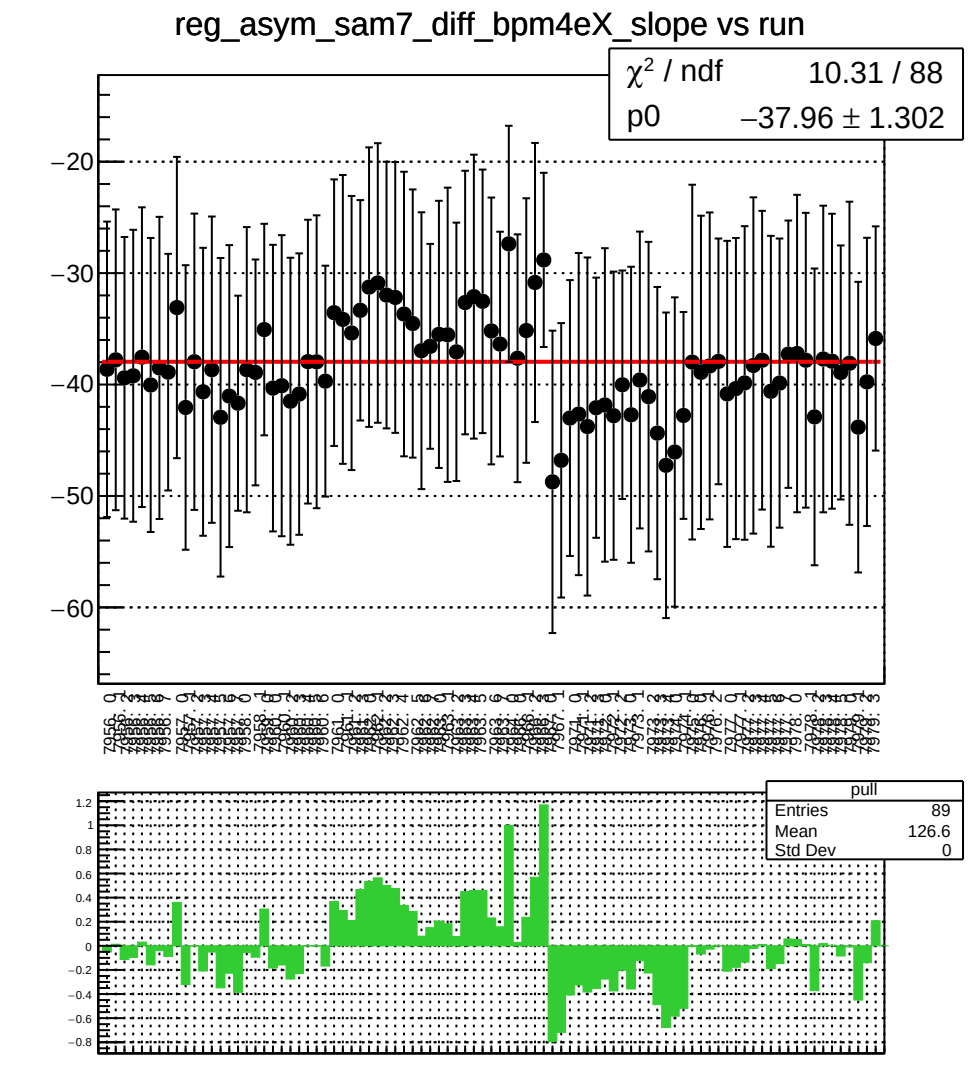

pull1D
Entries 89
Mean −0.001101
Std Dev 0.2596

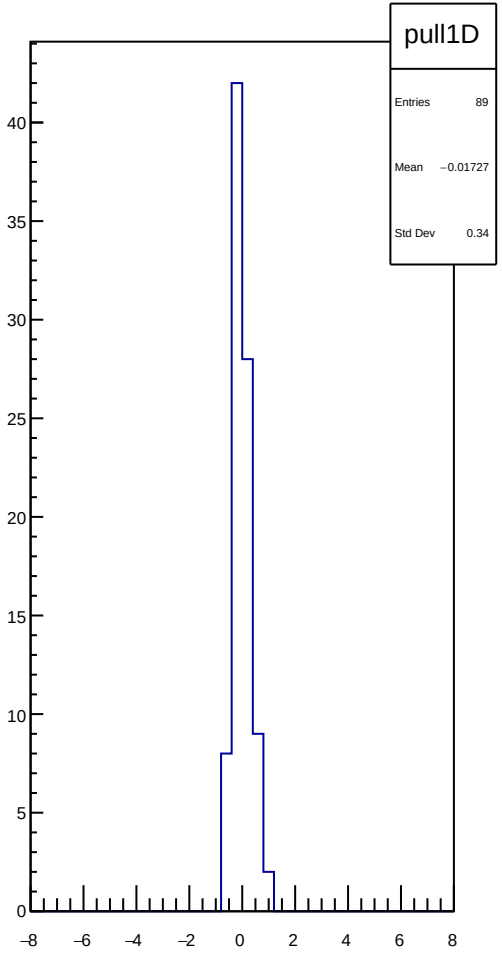

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 9.472 / 88
p0 −0.734 ± 0.08149
pull
Entries 89
Mean −364.8
Std Dev 0
pull1D
Entries 89
Mean −0.005074
Std Dev 0.3262

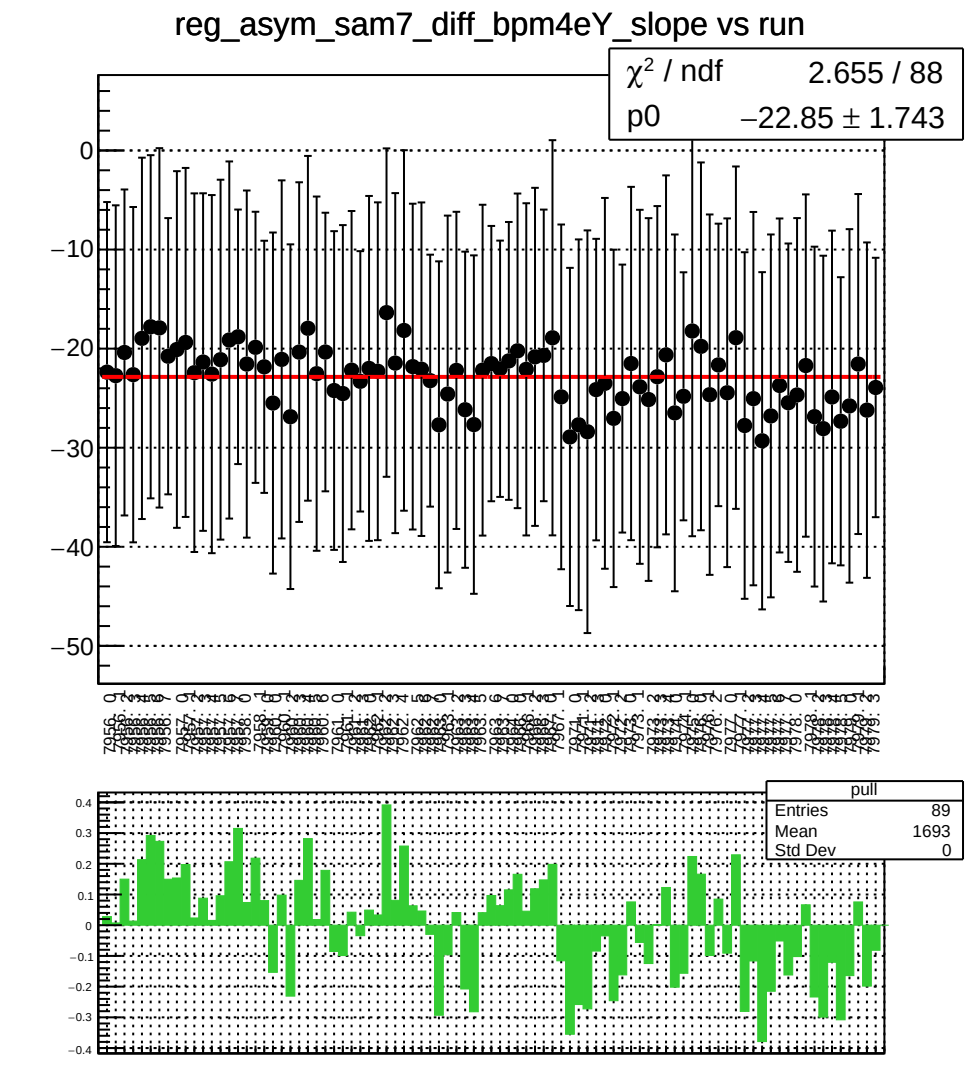

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 10.42 / 88
p0 −4.018 ± 1.47
pull
Entries 89
Mean 185.5
Std Dev 0

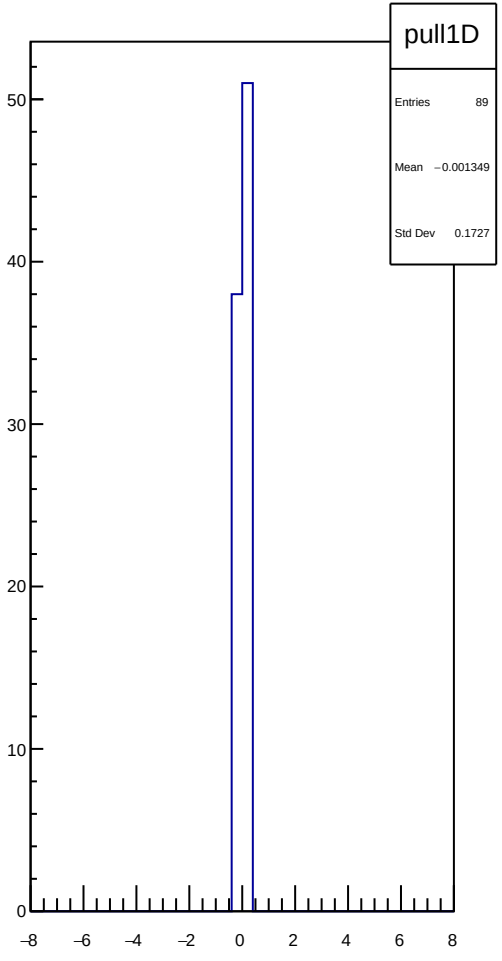

pull1D
Entries 89
Mean 0.007744
Std Dev 0.3421

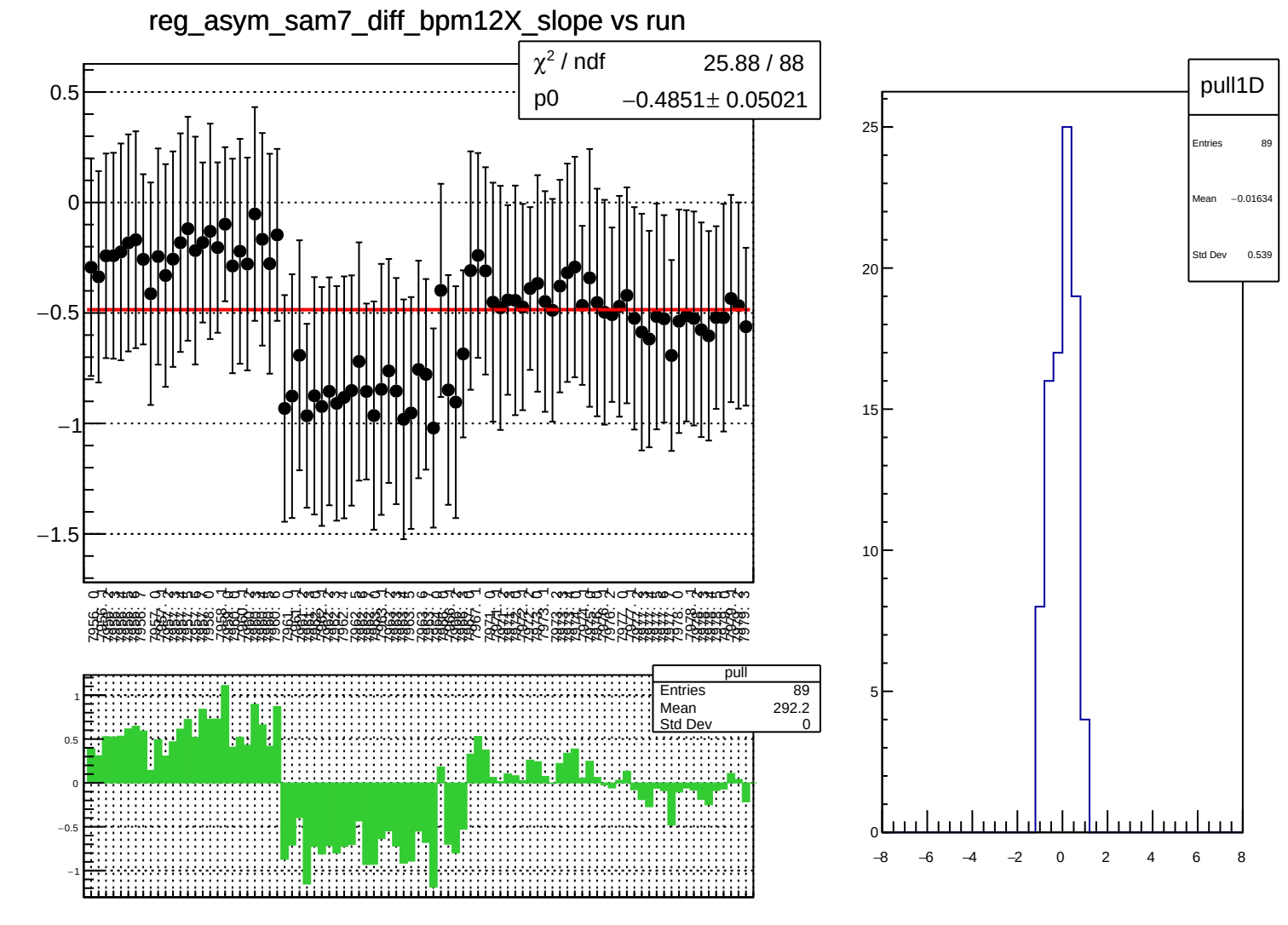

reg_asym_sam7_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 2.159 / 88
p0 16.41 ± 1.522
pull
Entries 89
Mean 851.1
Std Dev 0
pull1D
Entries 89
Mean 0.001424
Std Dev 0.1557

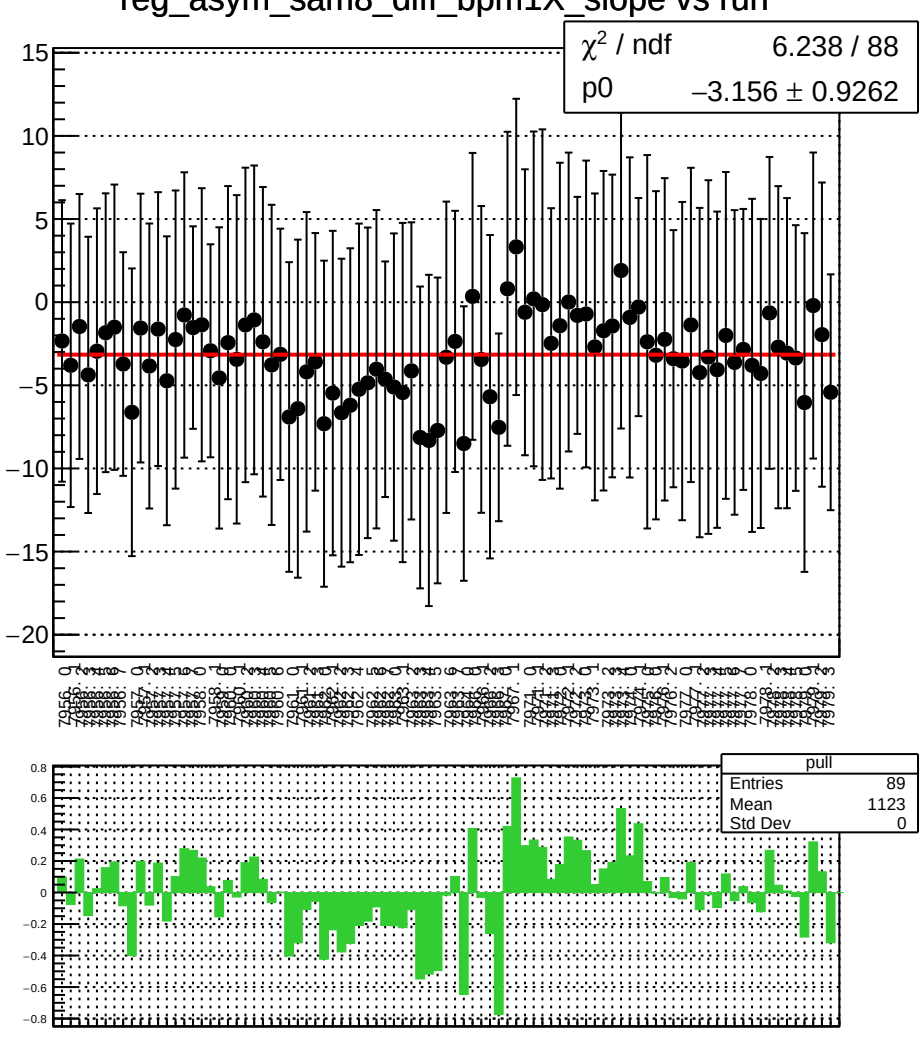

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 10.31 / 88
p0 −37.96 ± 1.302
pull
Entries 89
Mean 126.6
Std Dev 0

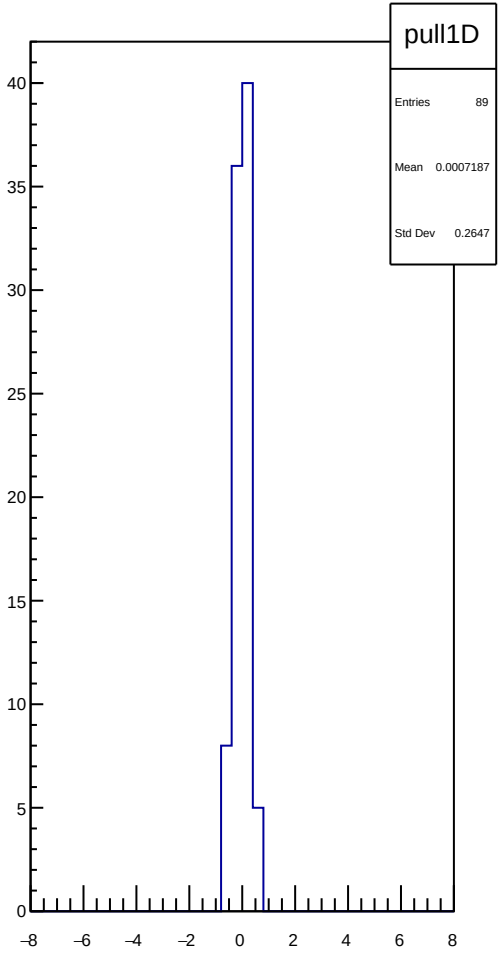

pull1D
Entries 89
Mean −0.01727
Std Dev 0.34

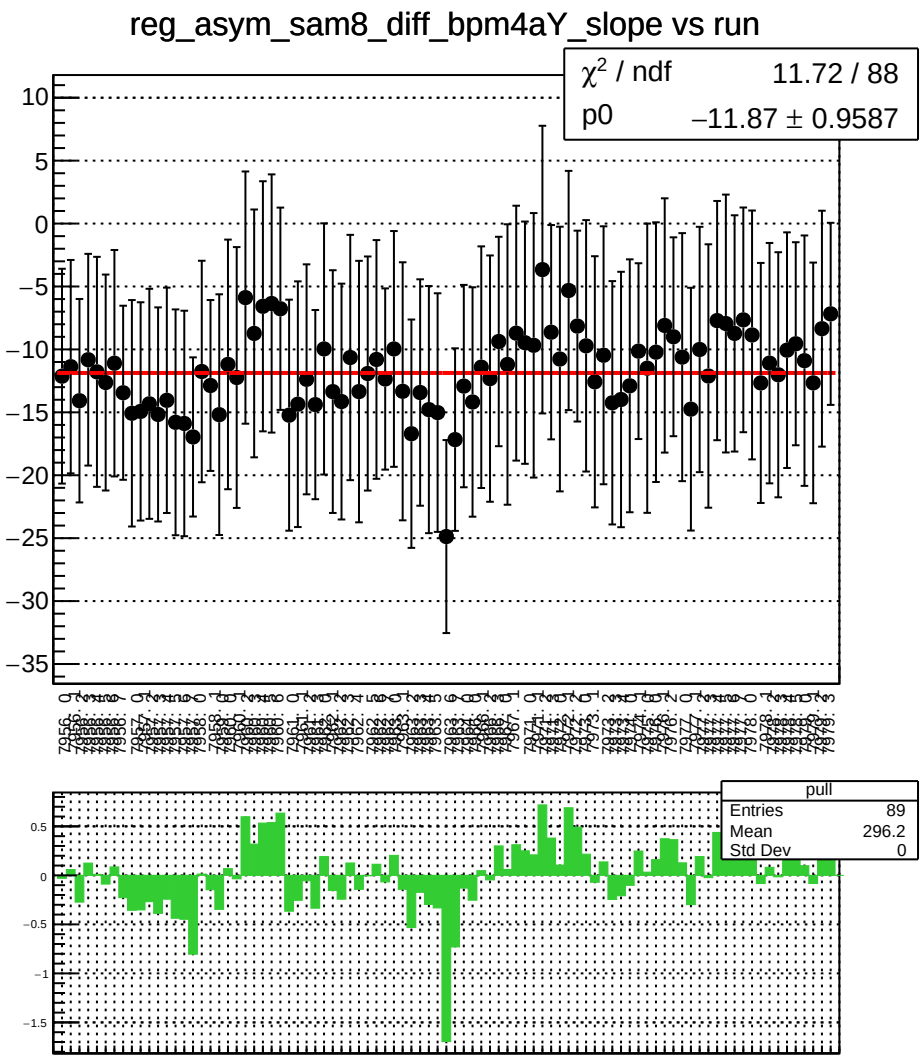

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 2.655 / 88
p0 −22.85 ± 1.743
pull
Entries 89
Mean 1693
Std Dev 0

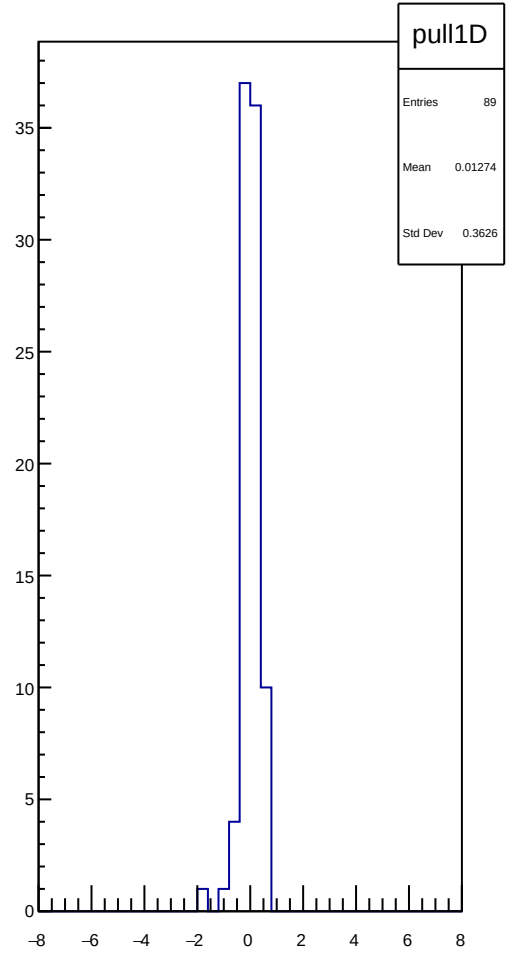

pull1D
Entries 89
Mean −0.001349
Std Dev 0.1727

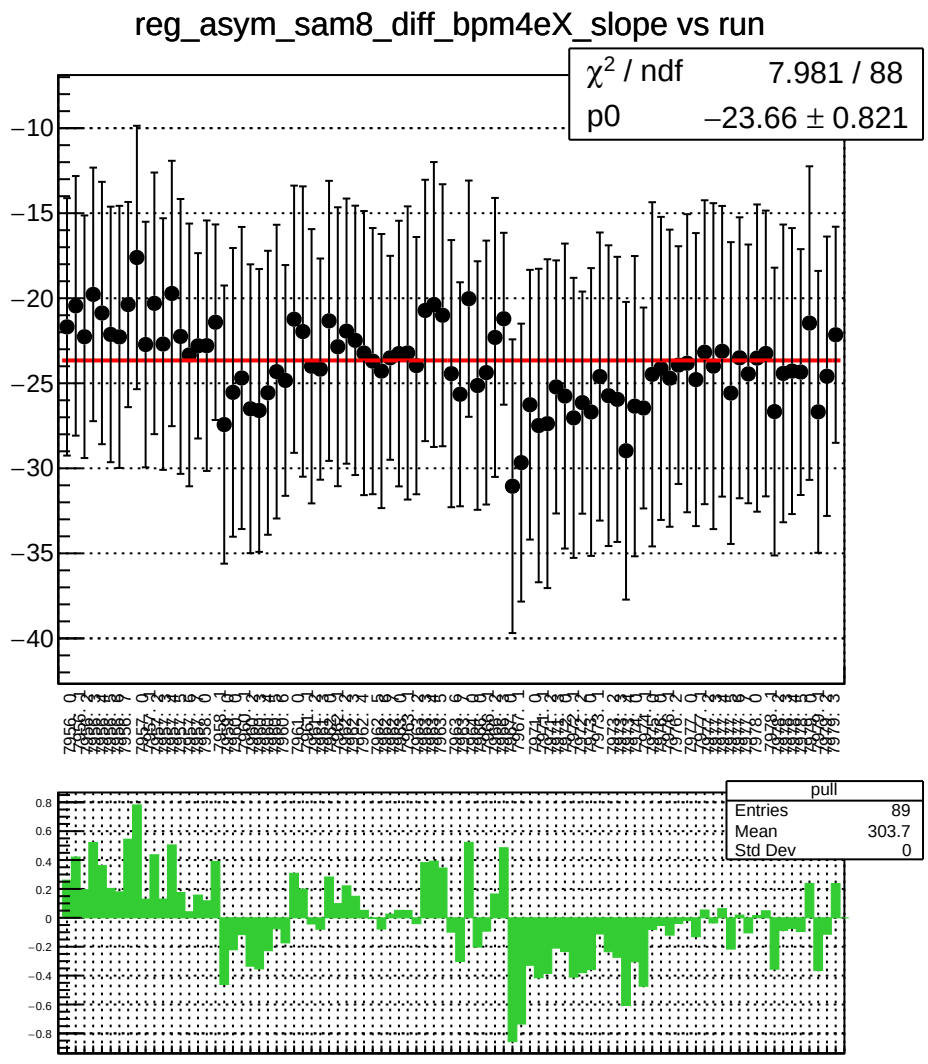

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 25.88 / 88
p0 −0.4851± 0.05021
pull
Entries 89
Mean 292.2
Std Dev 0
pull1D
Entries 89
Mean −0.01634
Std Dev 0.539

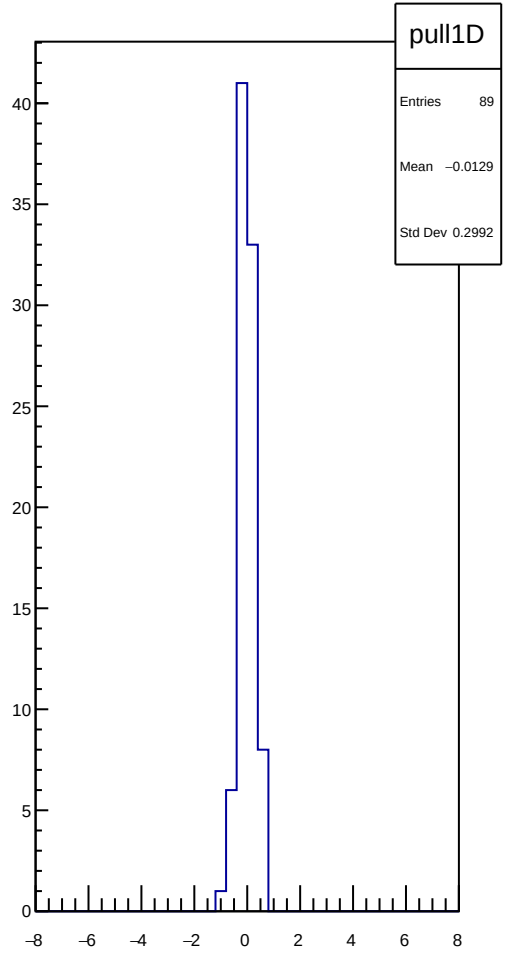

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 6.238 / 88
p0 −3.156 ± 0.9262
pull
Entries 89
Mean 1123
Std Dev 0

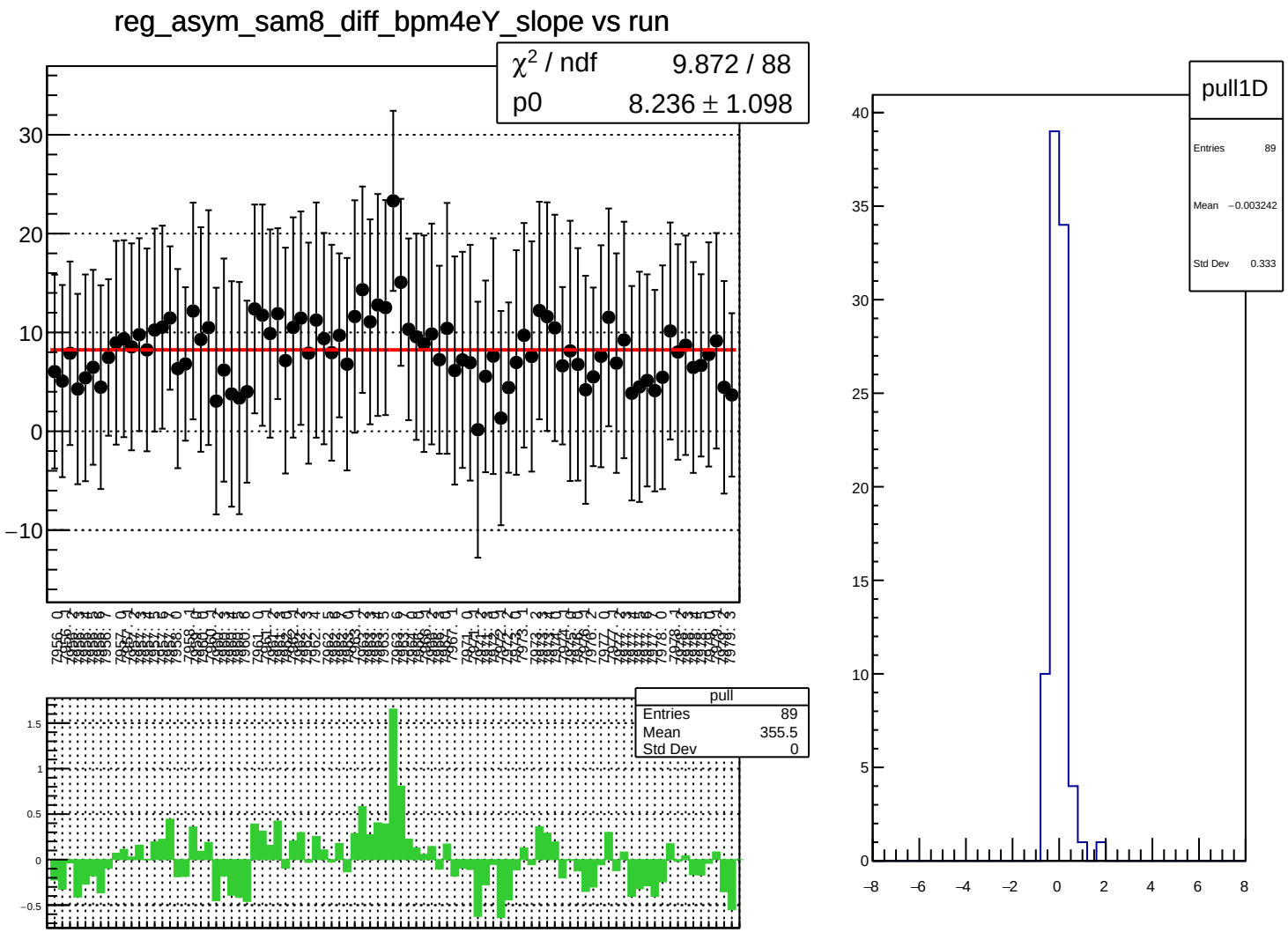

pull1D
Entries 89
Mean 0.0007187
Std Dev 0.2647

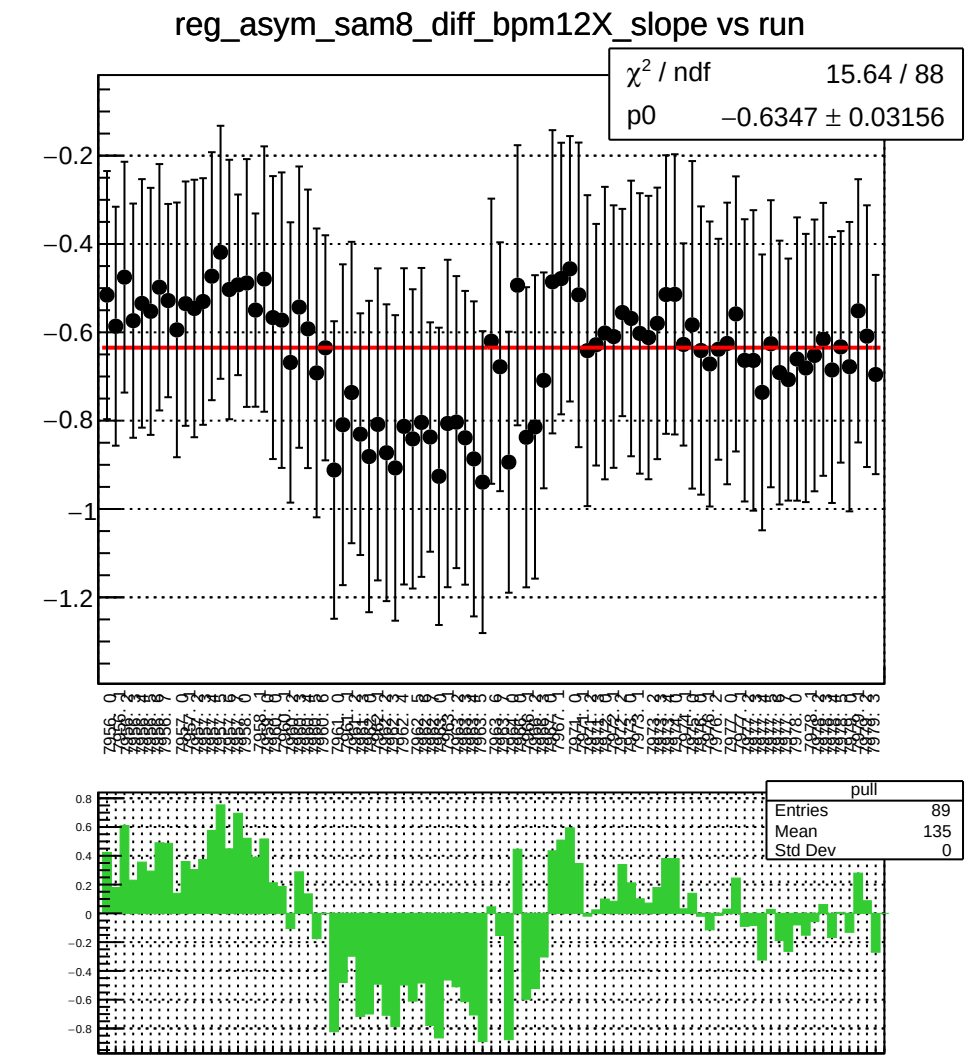

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 11.72 / 88
p0 −11.87 ± 0.9587
pull
Entries 89
Mean 296.2
Std Dev 0

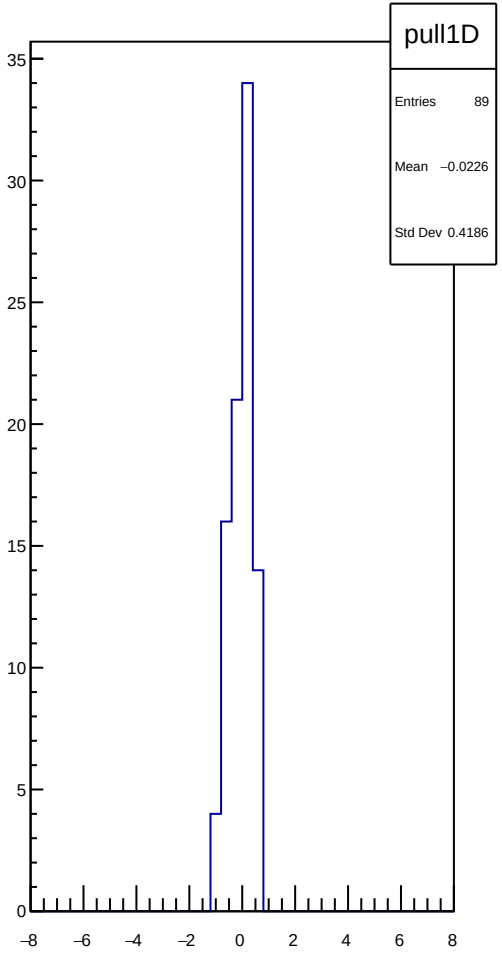

pull1D
Entries 89
Mean 0.01274
Std Dev 0.3626

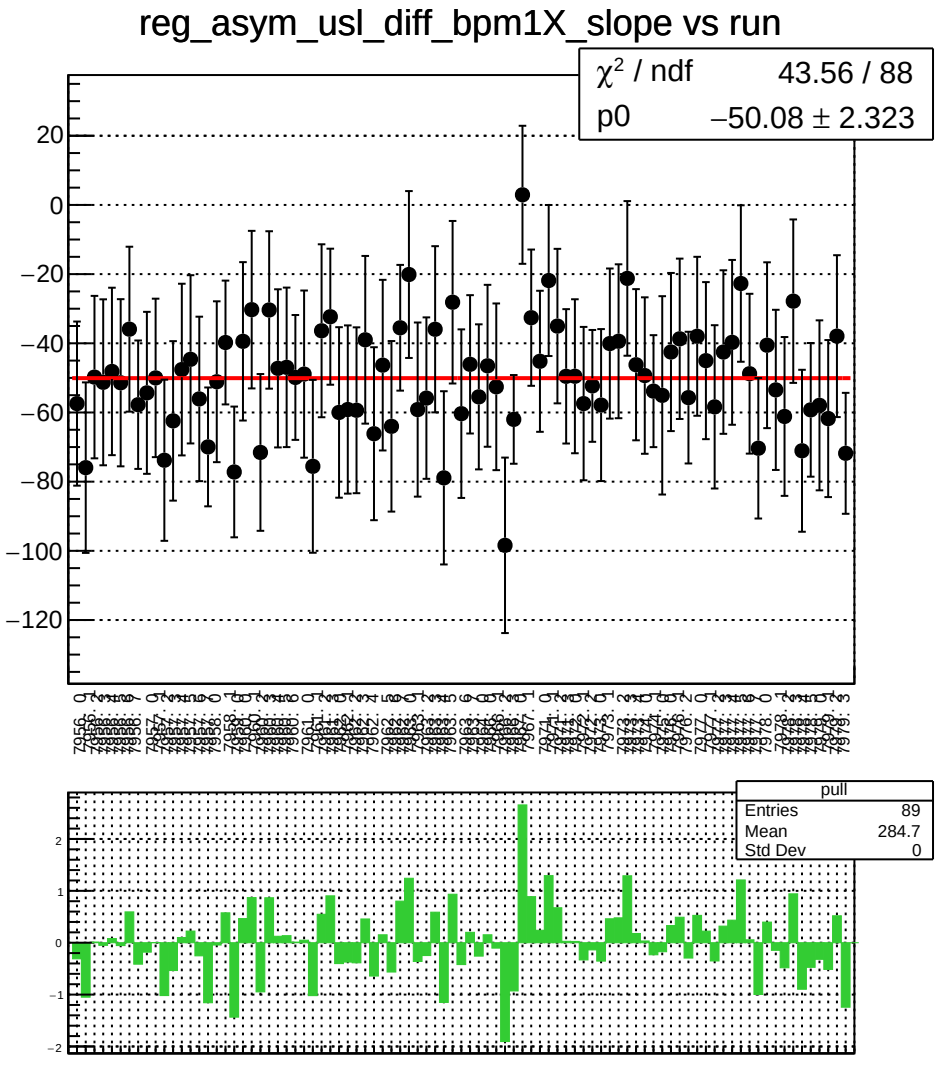

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 7.981 / 88
p0 −23.66 ± 0.821
pull
Entries 89
Mean 303.7
Std Dev 0

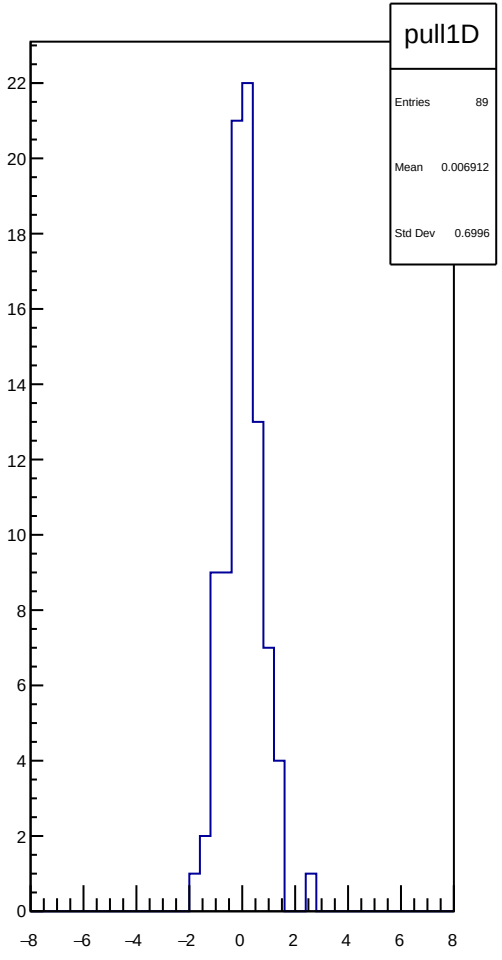

pull1D
Entries 89
Mean −0.0129
Std Dev 0.2992

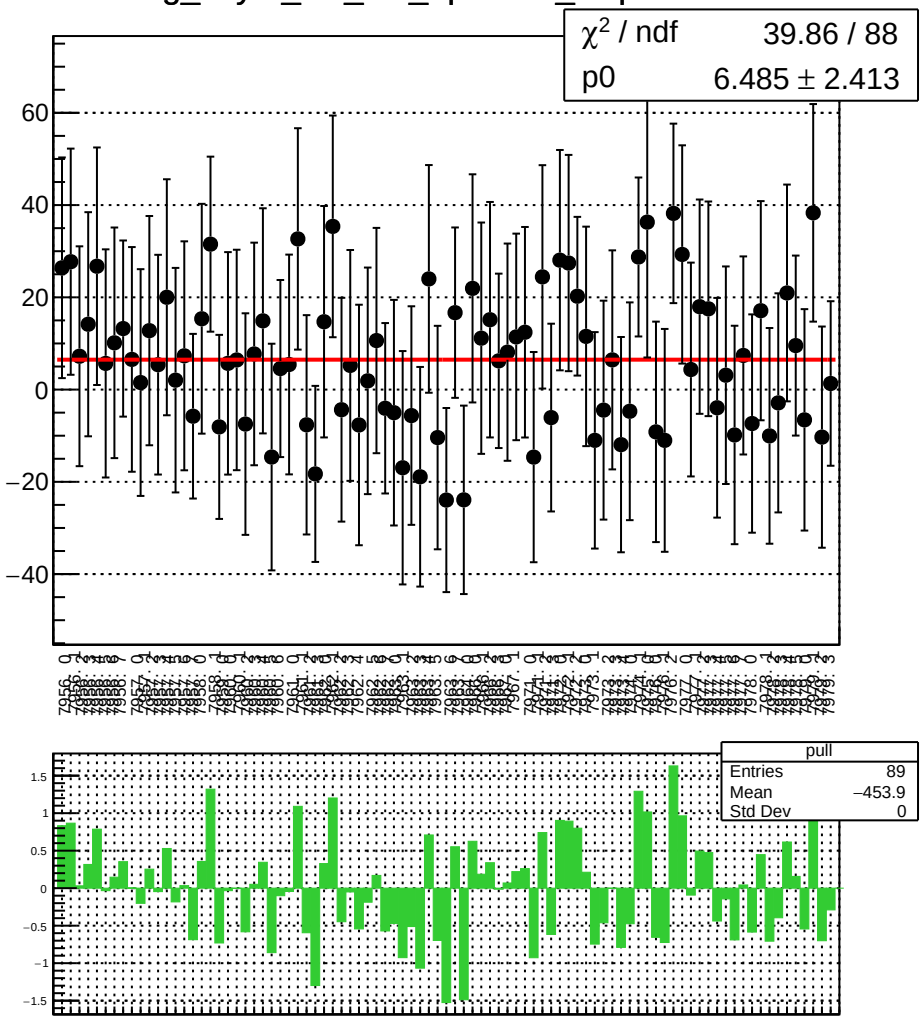

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 9.872 / 88
p0 8.236 ± 1.098
30
20
10
0
−10
pull
Entries 89
Mean 355.5
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 89
Mean −0.003242
Std Dev 0.333
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

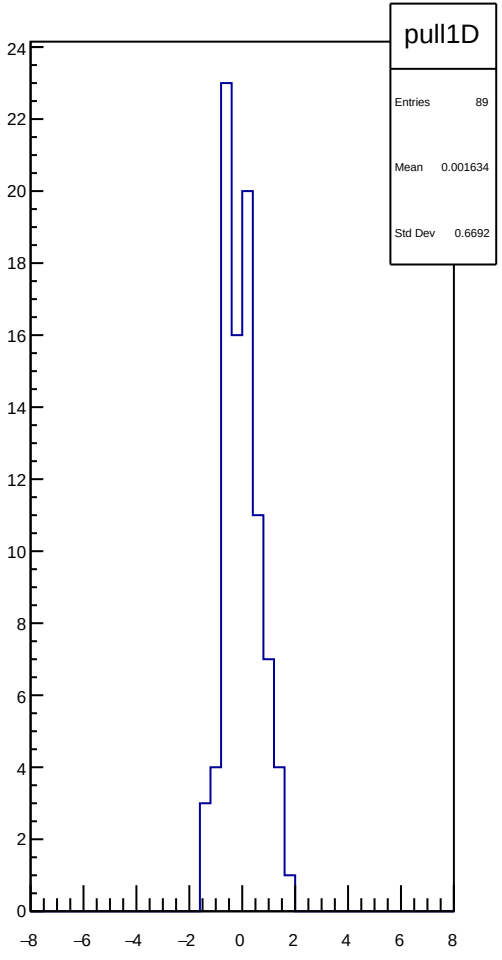

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 15.64 / 88
p0 −0.6347 ± 0.03156
pull
Entries 89
Mean 135
Std Dev 0

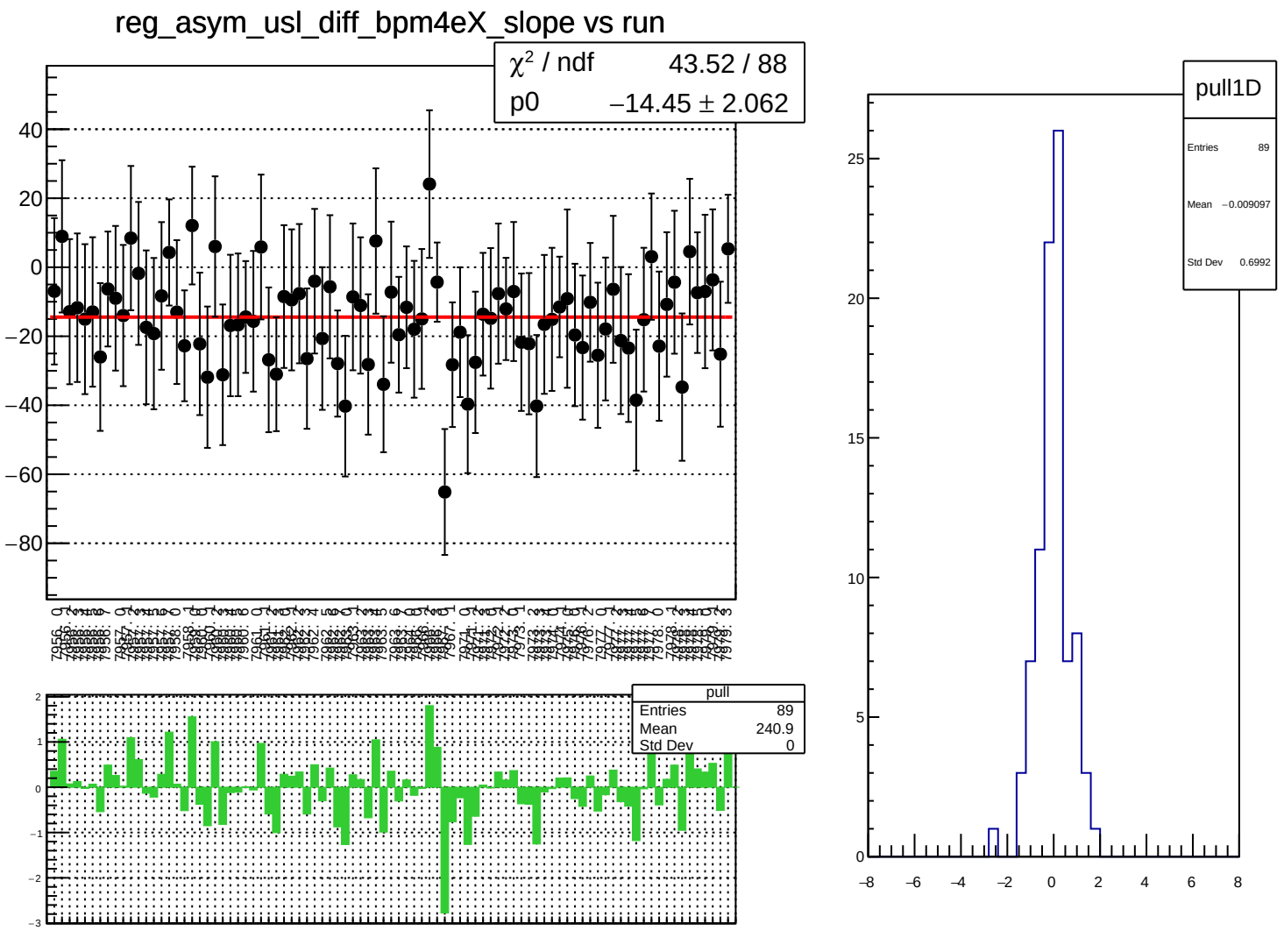

pull1D
Entries 89
Mean −0.0226
Std Dev 0.4186

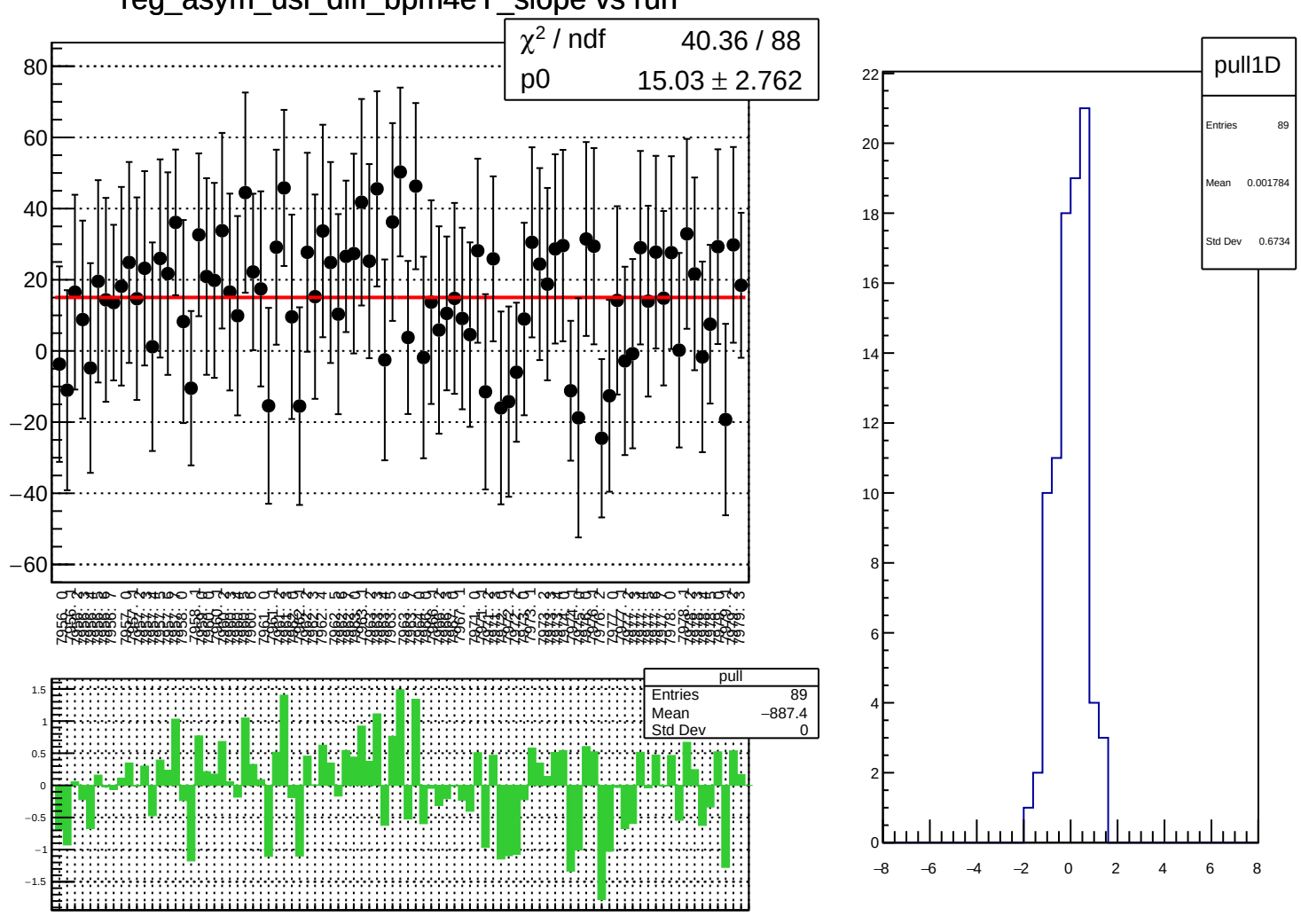

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 43.56 / 88
p0 −50.08 ± 2.323
pull
Entries 89
Mean 284.7
Std Dev 0

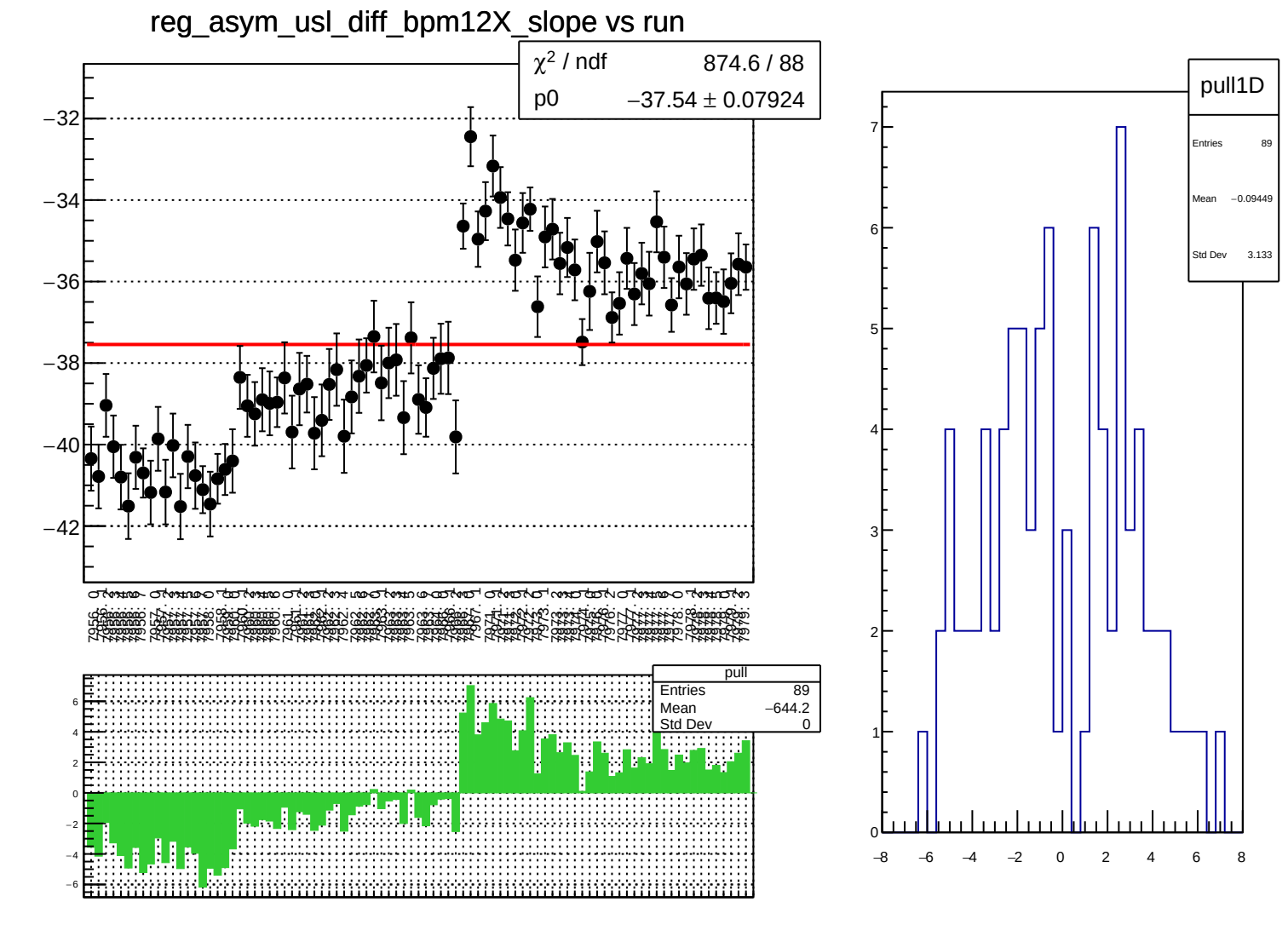

pull1D
Entries 89
Mean 0.006912
Std Dev 0.6996

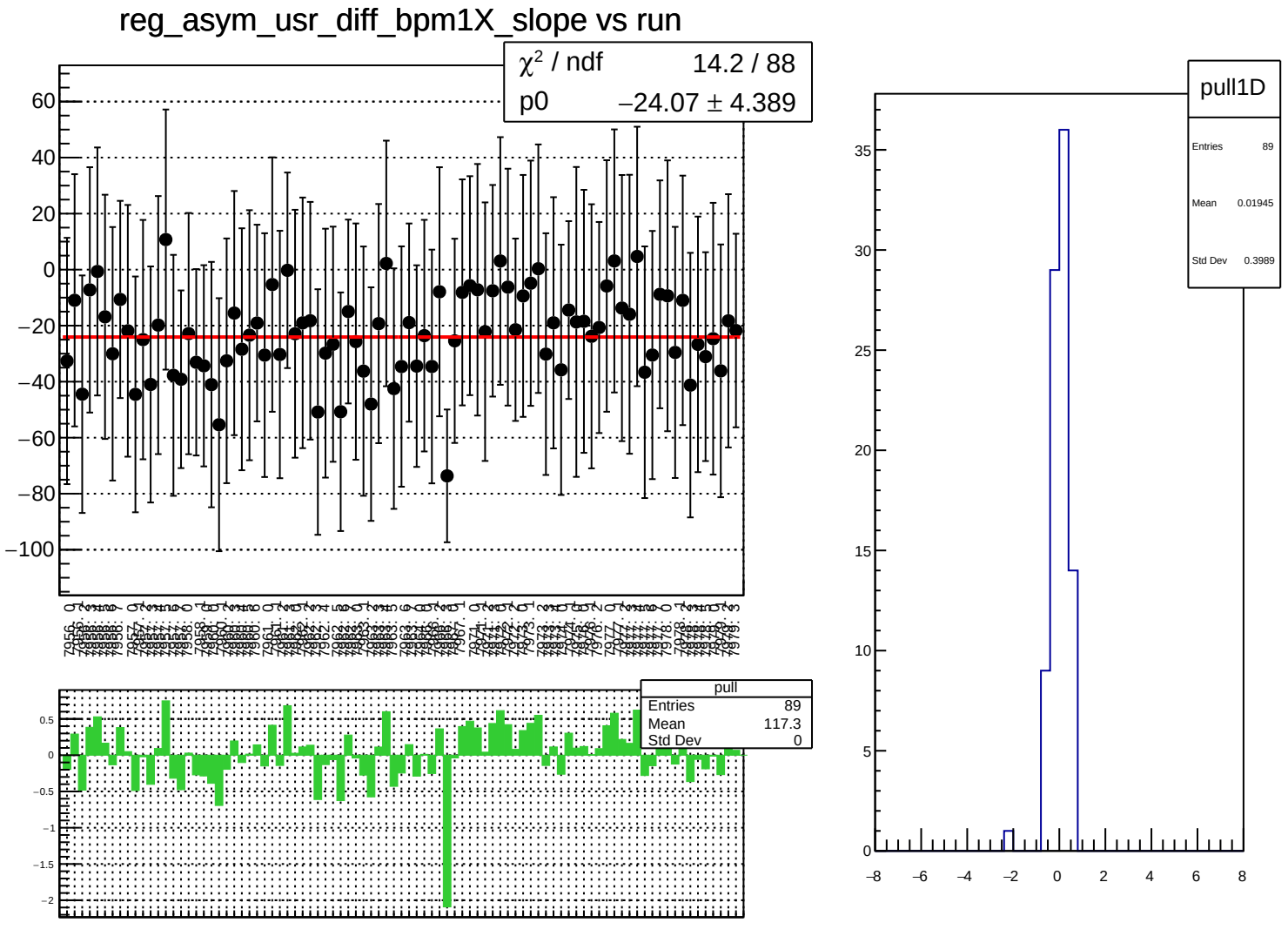

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 39.86 / 88
p0 6.485 ± 2.413
pull
Entries 89
Mean −453.9
Std Dev 0

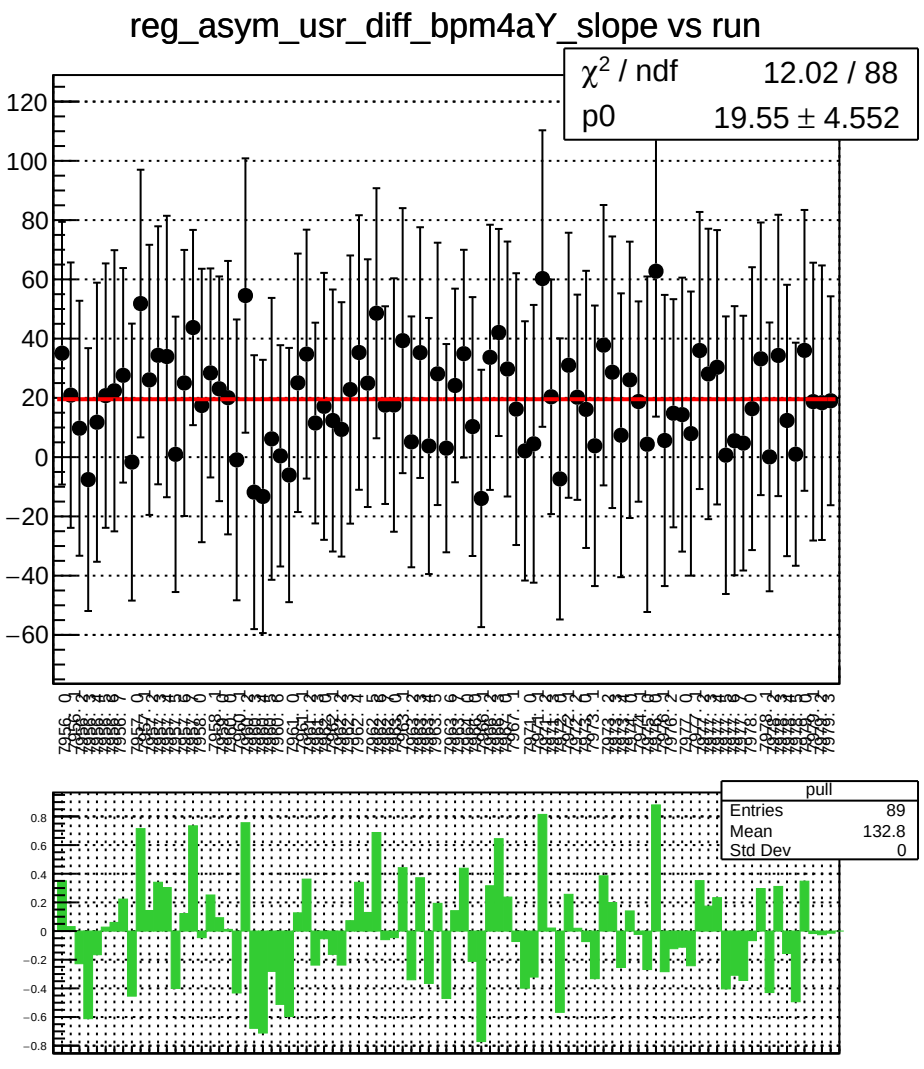

pull1D
Entries 89
Mean 0.001634
Std Dev 0.6692

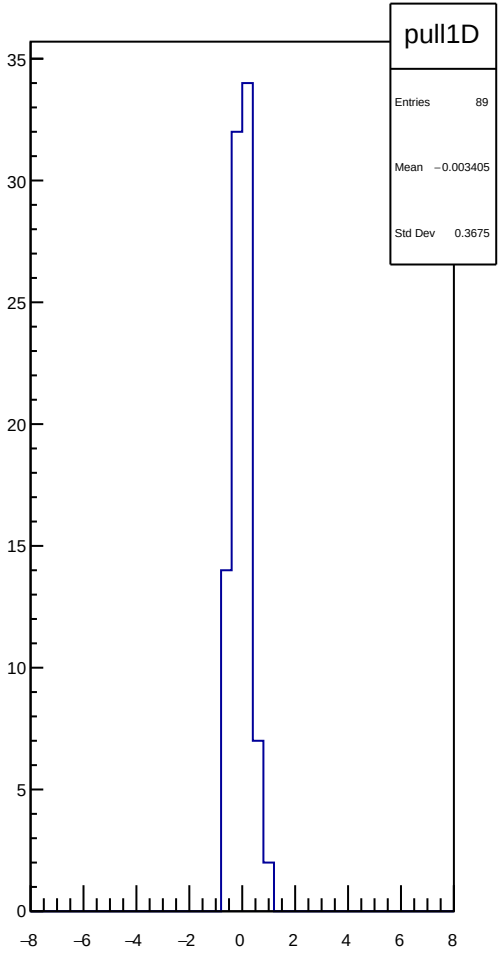

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 43.52 / 88
p0 −14.45 ± 2.062
pull
Entries 89
Mean 240.9
Std Dev 0
pull1D
Entries 89
Mean −0.009097
Std Dev 0.6992

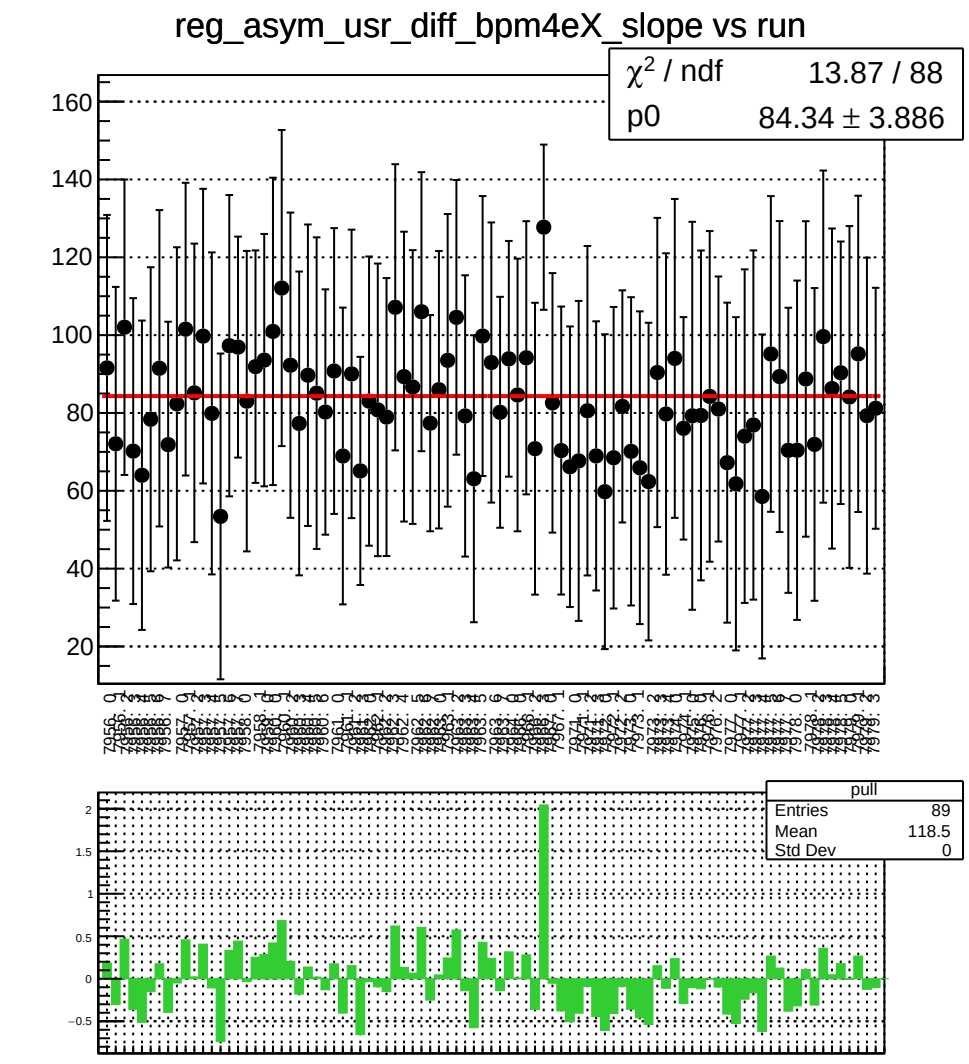

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 40.36 / 88
p0 15.03 ± 2.762
pull
Entries 89
Mean −887.4
Std Dev 0
pull1D
Entries 89
Mean 0.001784
Std Dev 0.6734

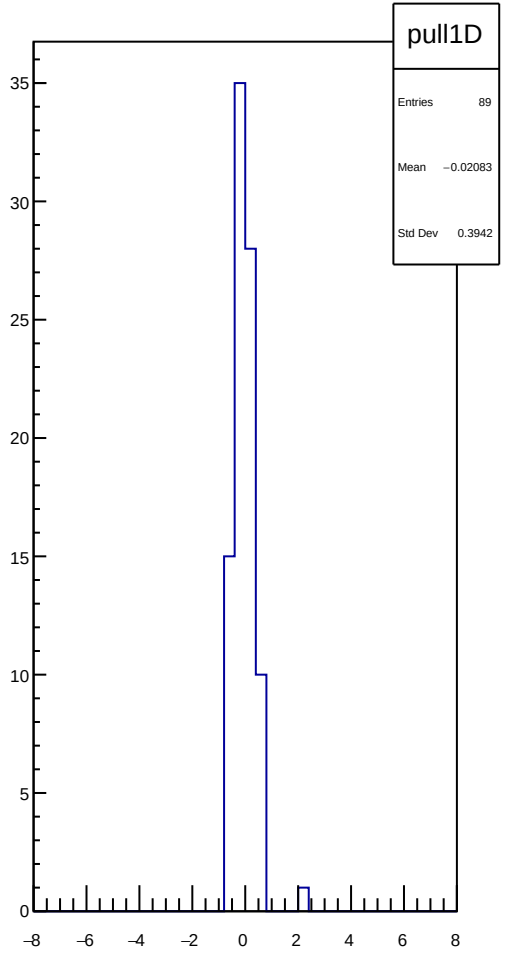

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 874.6 / 88
p0 −37.54 ± 0.07924
−32
−34
−36
−38
−40
−42
pull
Entries 89
Mean −644.2
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 89
Mean −0.09449
Std Dev 3.133
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

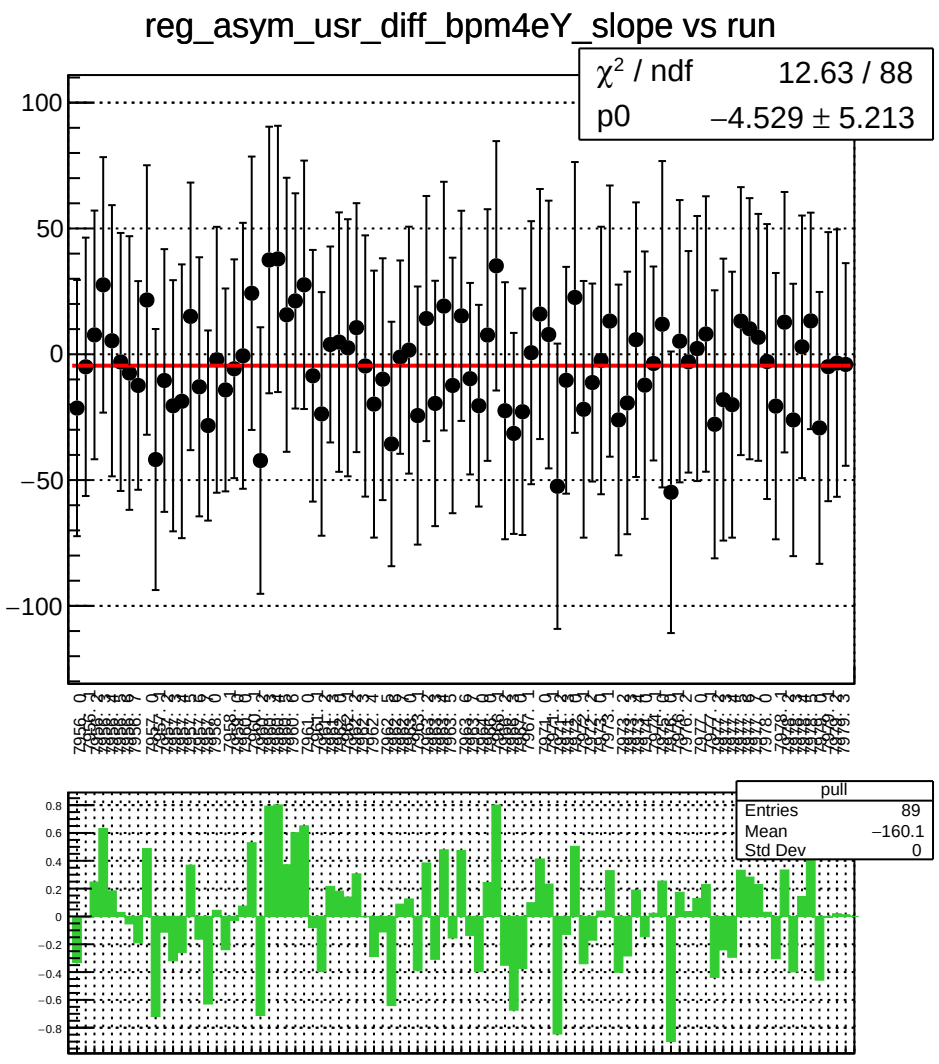

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 14.2 / 88
p0 −24.07 ± 4.389
pull
Entries 89
Mean 117.3
Std Dev 0
pull1D
Entries 89
Mean 0.01945
Std Dev 0.3989

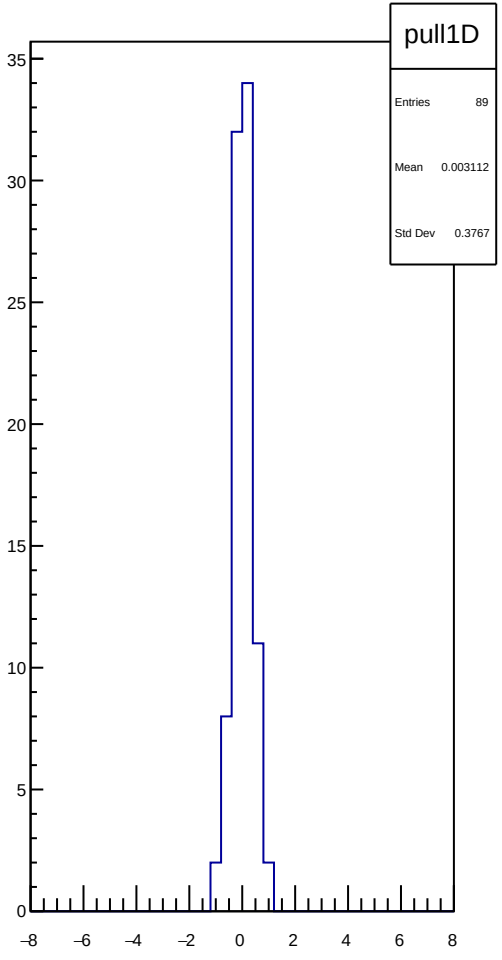

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 12.02 / 88
p0 19.55 ± 4.552
pull
Entries 89
Mean 132.8
Std Dev 0

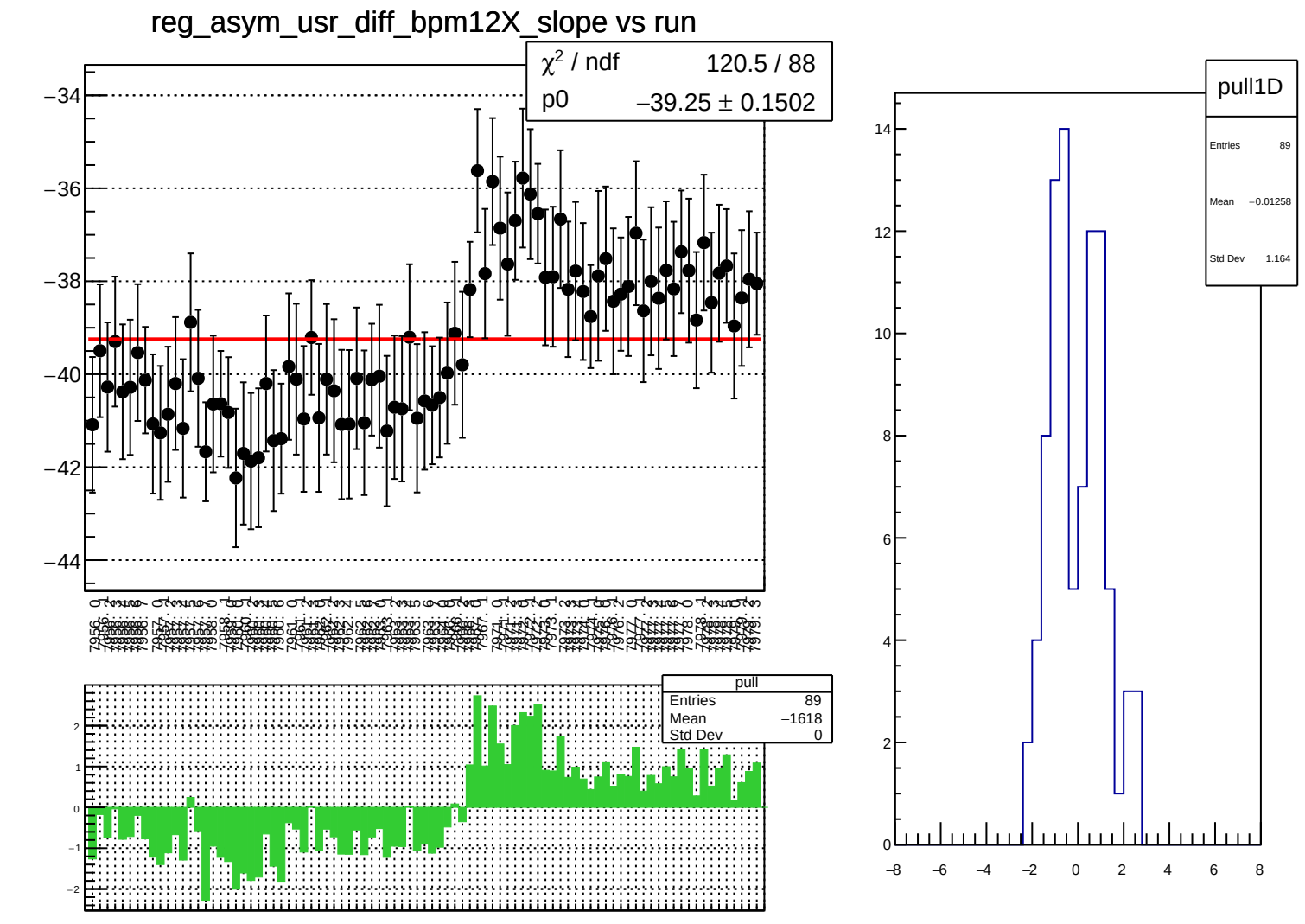

pull1D
Entries 89
Mean −0.003405
Std Dev 0.3675

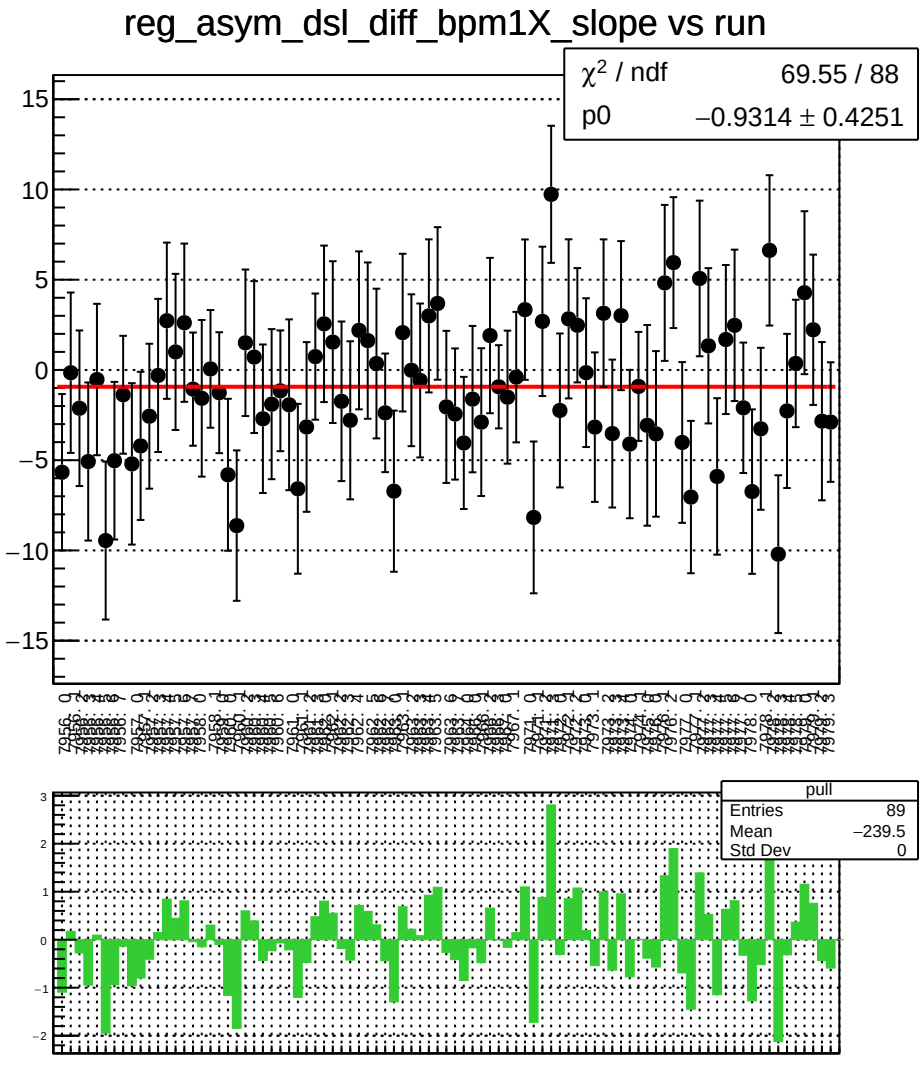

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 13.87 / 88
p0 84.34 ± 3.886
pull
Entries 89
Mean 118.5
Std Dev 0

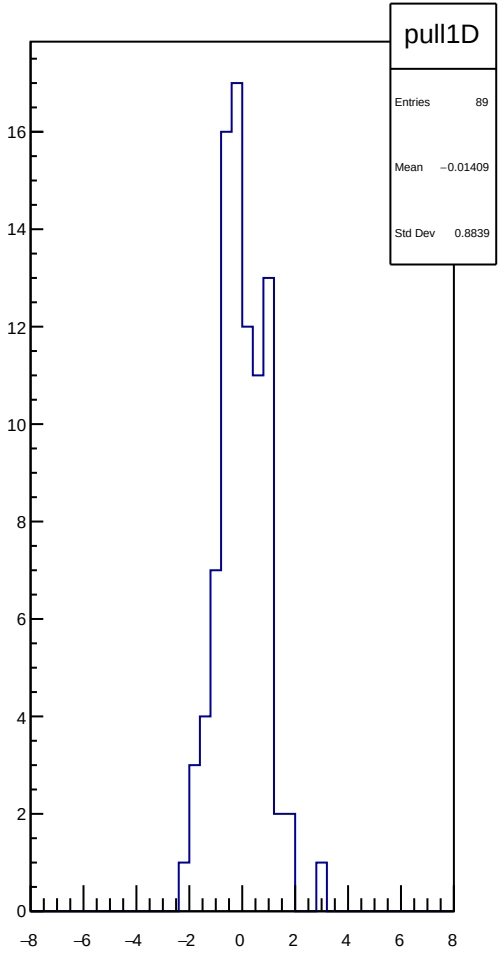

pull1D
Entries 89
Mean −0.02083
Std Dev 0.3942

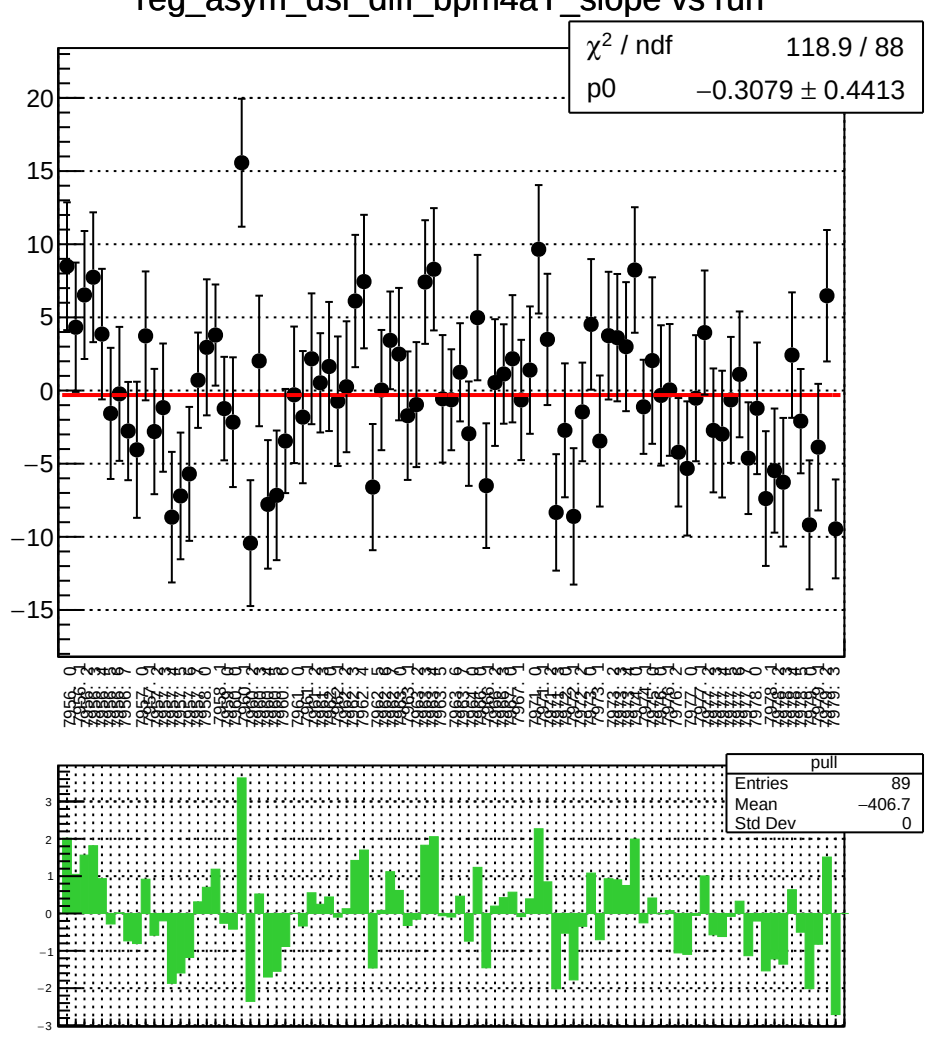

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 12.63 / 88
p0 −4.529 ± 5.213
pull
Entries 89
Mean −160.1
Std Dev 0

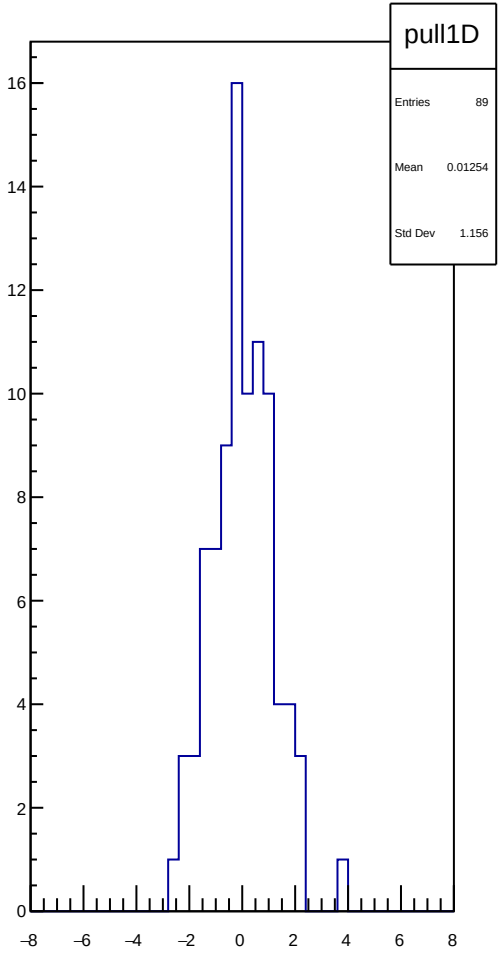

pull1D
Entries 89
Mean 0.003112
Std Dev 0.3767

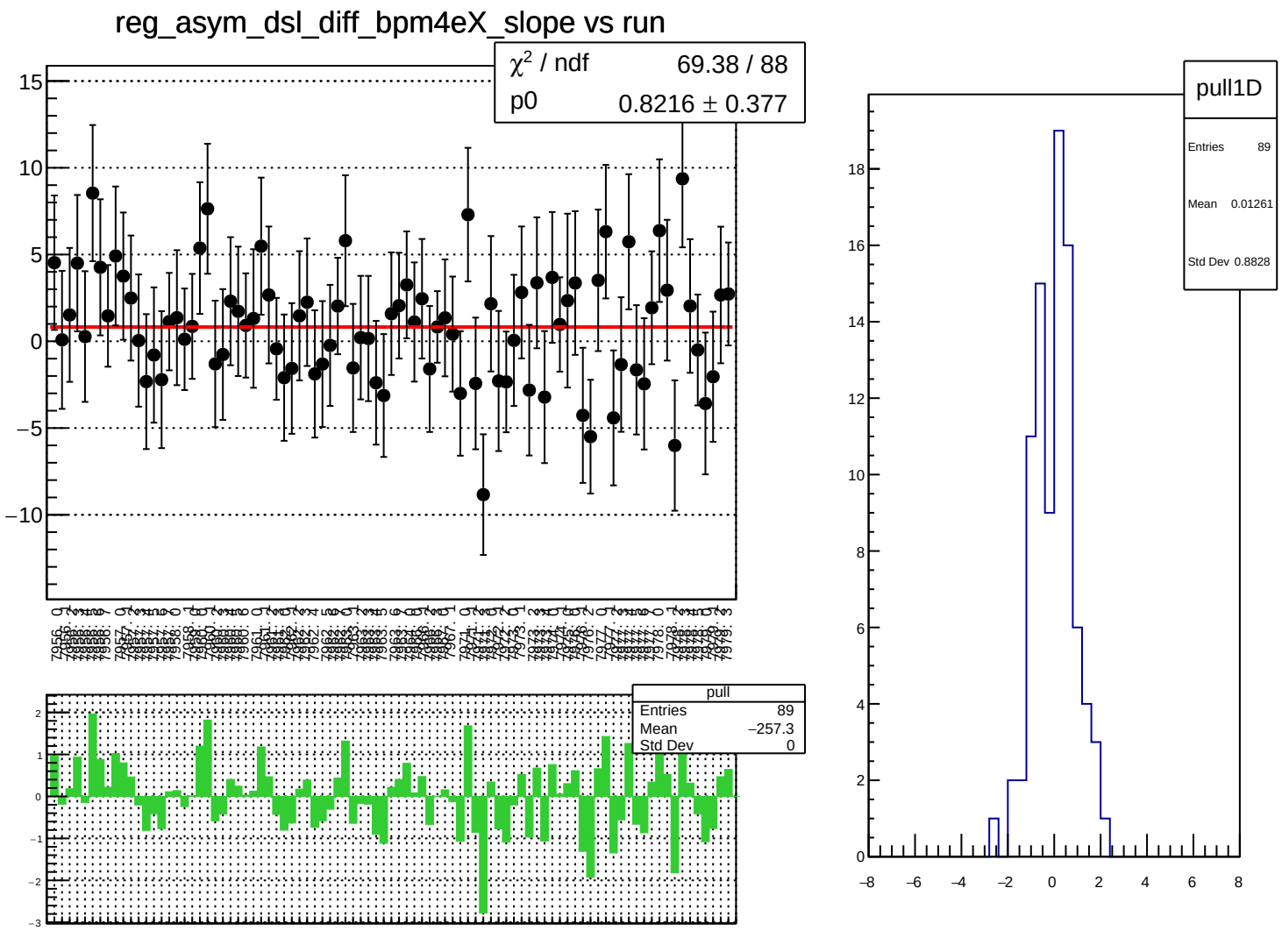

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 120.5 / 88
p0 −39.25 ± 0.1502
−34
−36
−38
−40
−42
−44
pull
Entries 89
Mean −1618
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01258
Std Dev 1.164
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

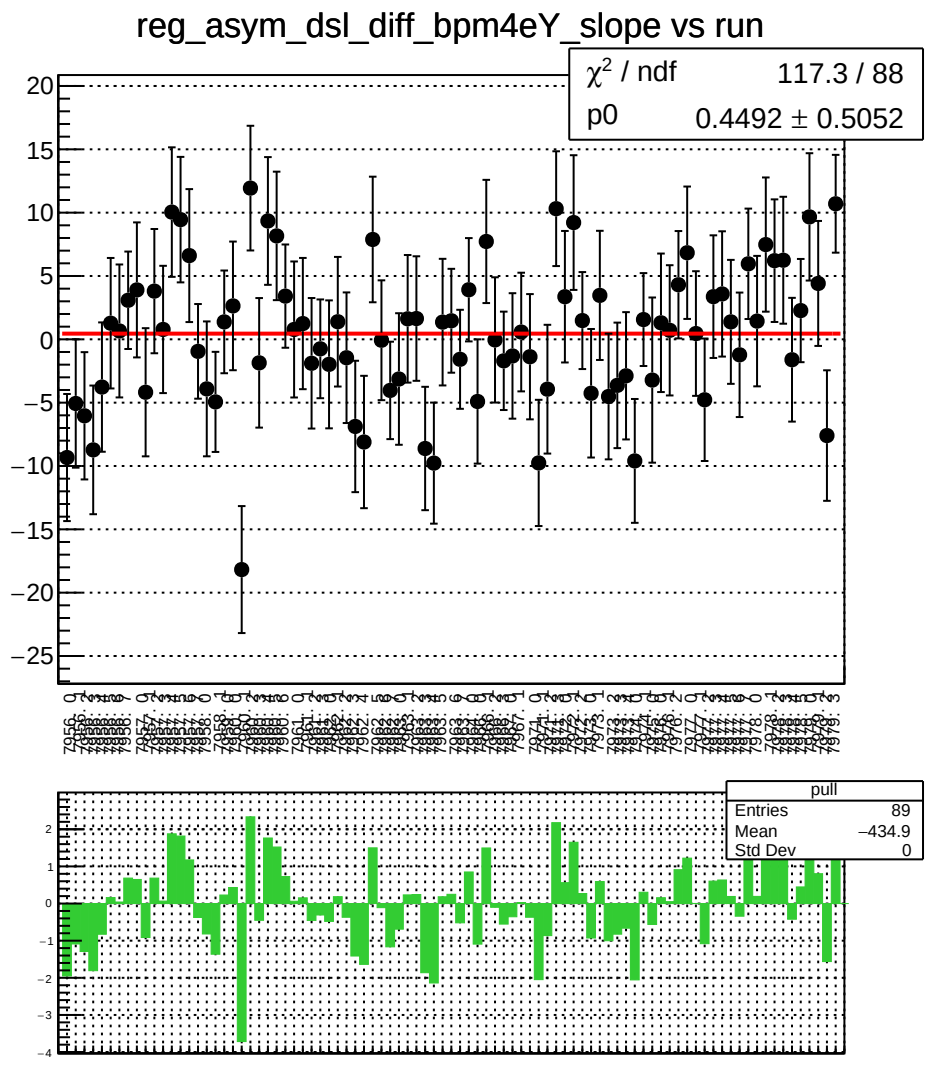

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 69.55 / 88
p0 −0.9314 ± 0.4251
pull
Entries 89
Mean −239.5
Std Dev 0

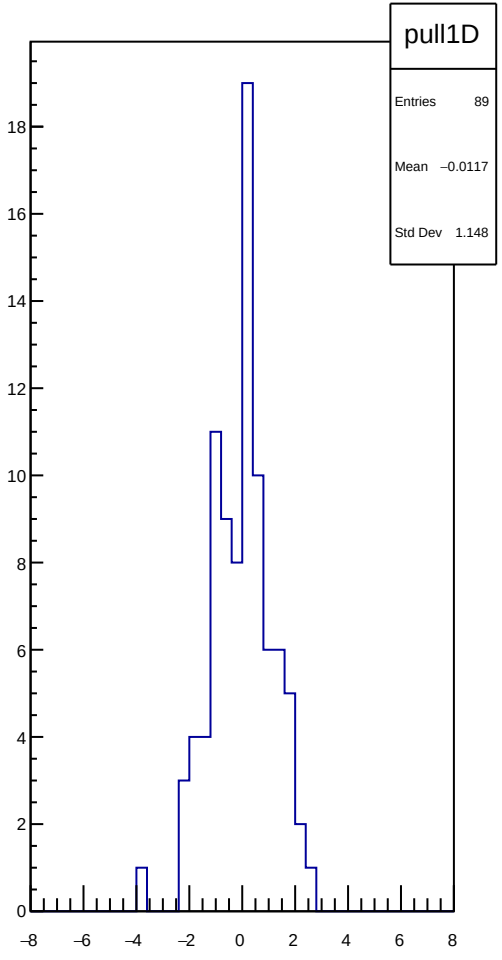

pull1D
Entries 89
Mean −0.01409
Std Dev 0.8839

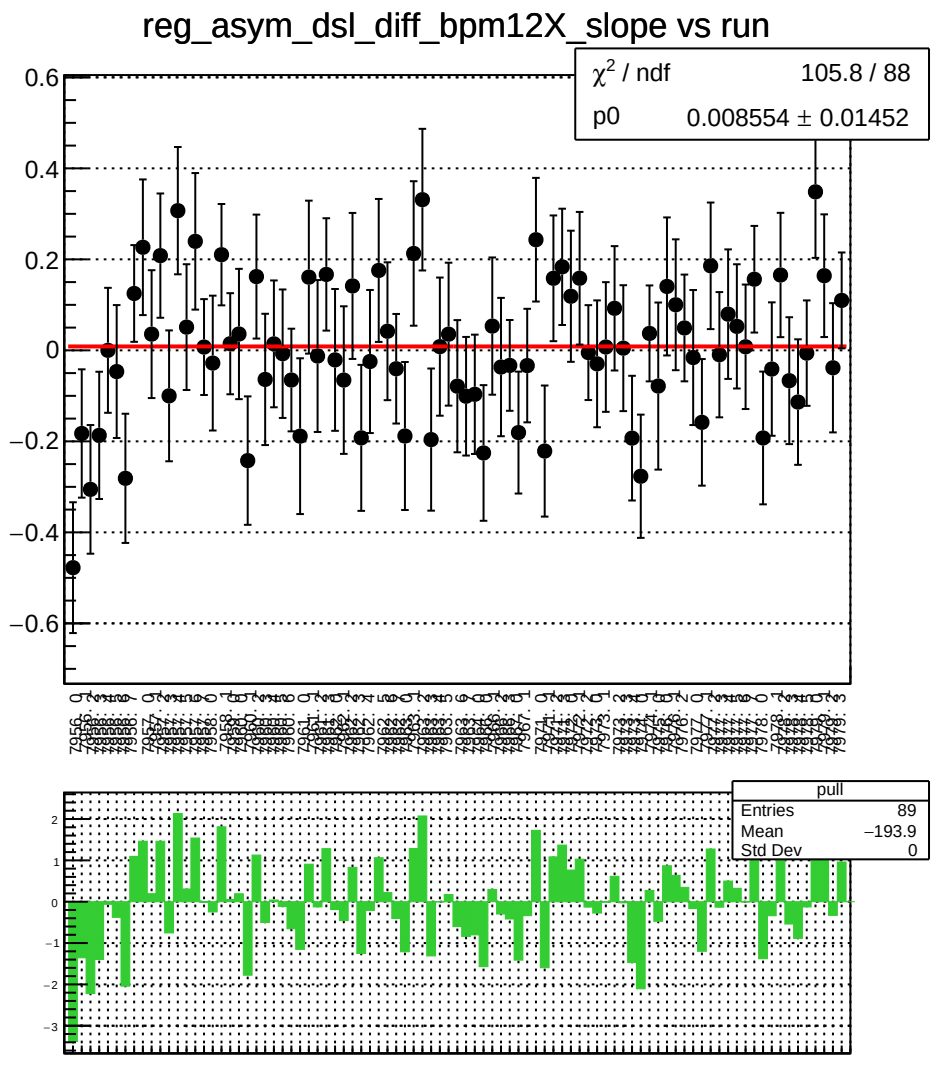

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 118.9 / 88
p0 −0.3079 ± 0.4413
pull
Entries 89
Mean −406.7
Std Dev 0

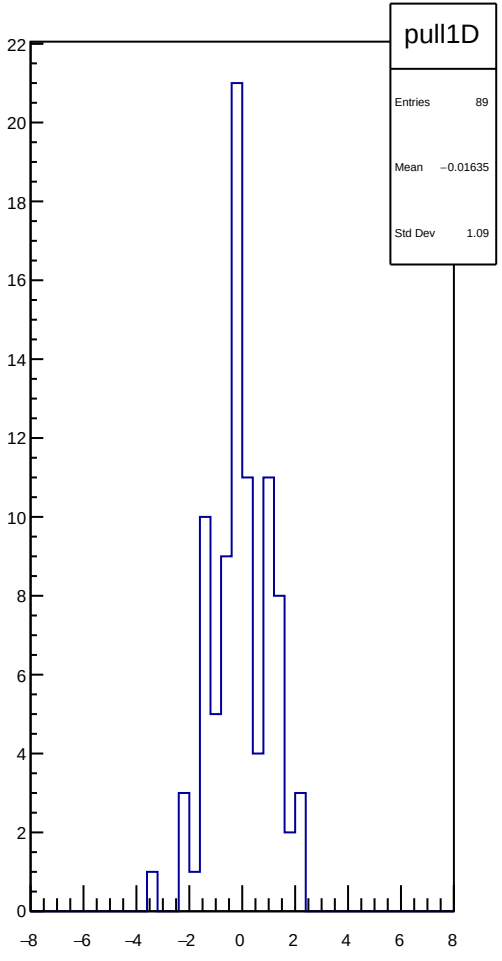

pull1D
Entries 89
Mean 0.01254
Std Dev 1.156

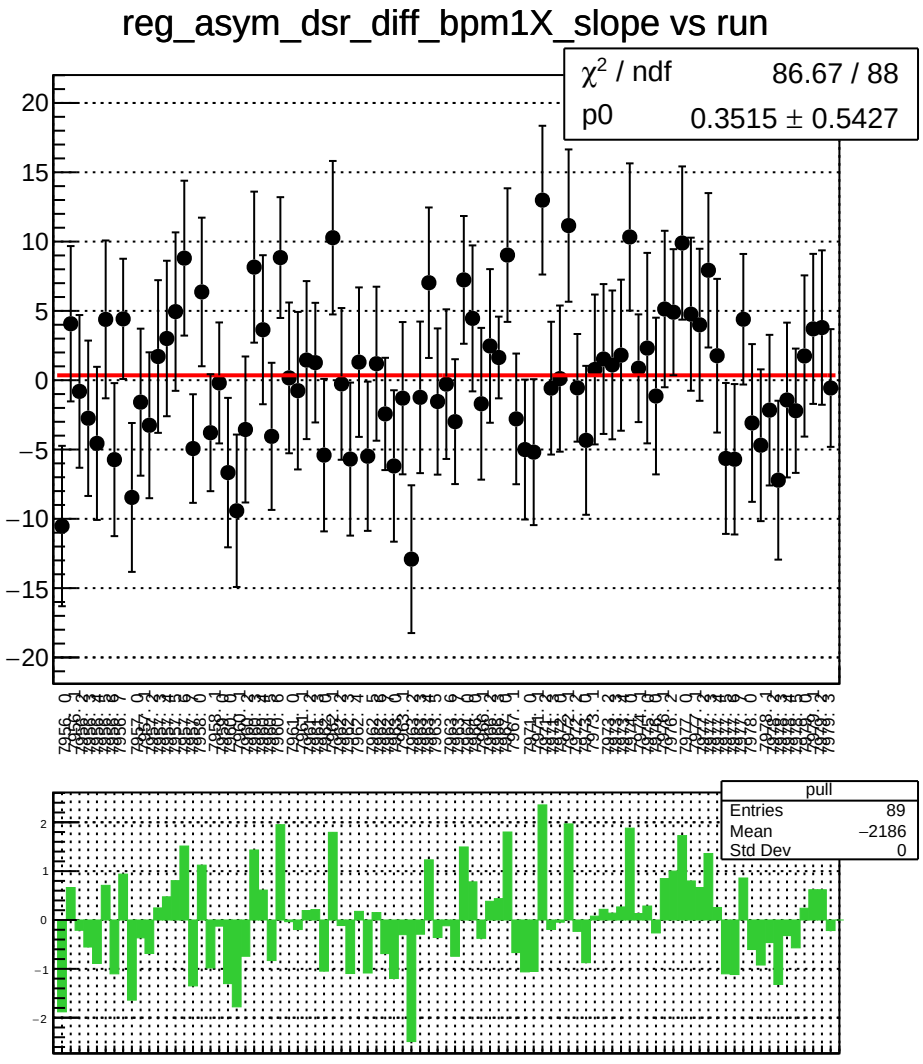

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 69.38 / 88
p0 0.8216 ± 0.377
pull
Entries 89
Mean −257.3
Std Dev 0
pull1D
Entries 89
Mean 0.01261
Std Dev 0.8828

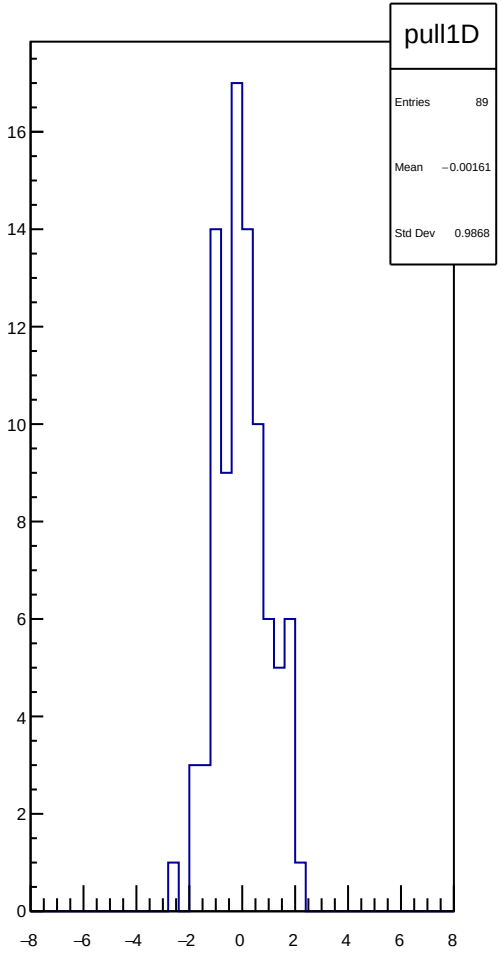

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 117.3 / 88
p0 0.4492 ± 0.5052
pull
Entries 89
Mean −434.9
Std Dev 0

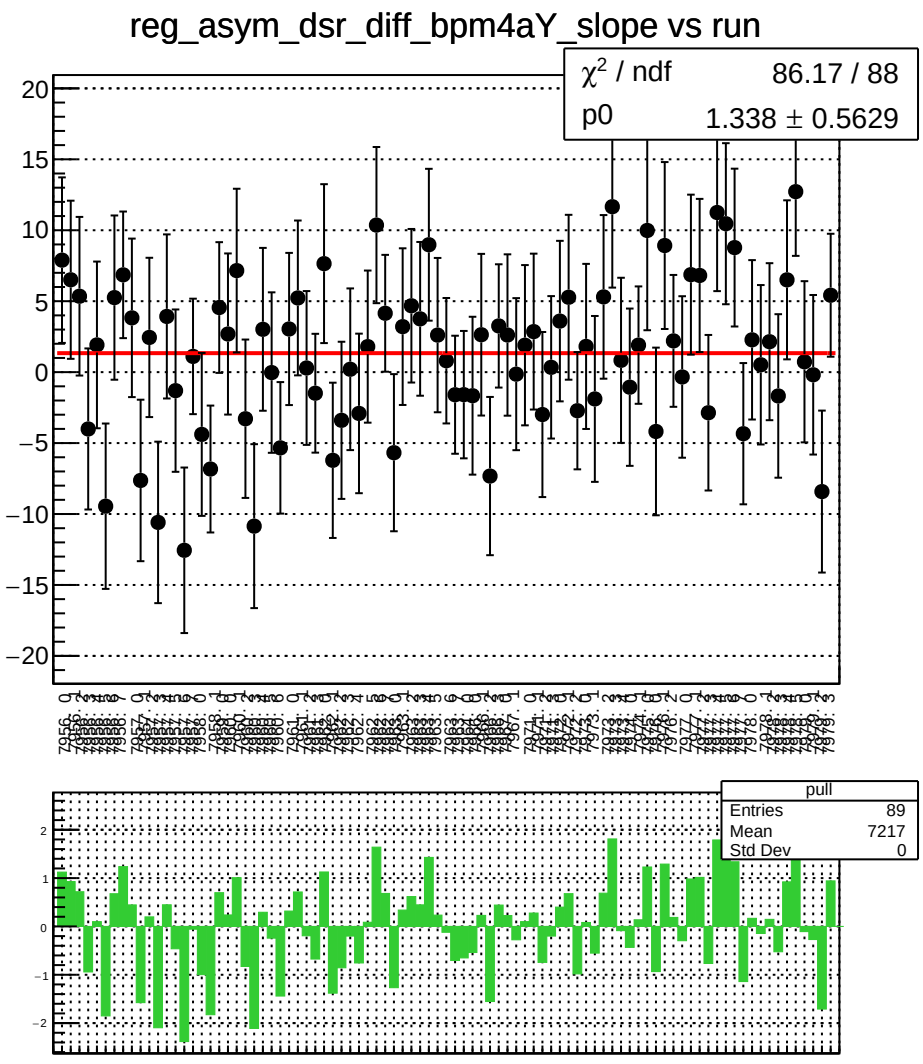

pull1D
Entries 89
Mean −0.0117
Std Dev 1.148

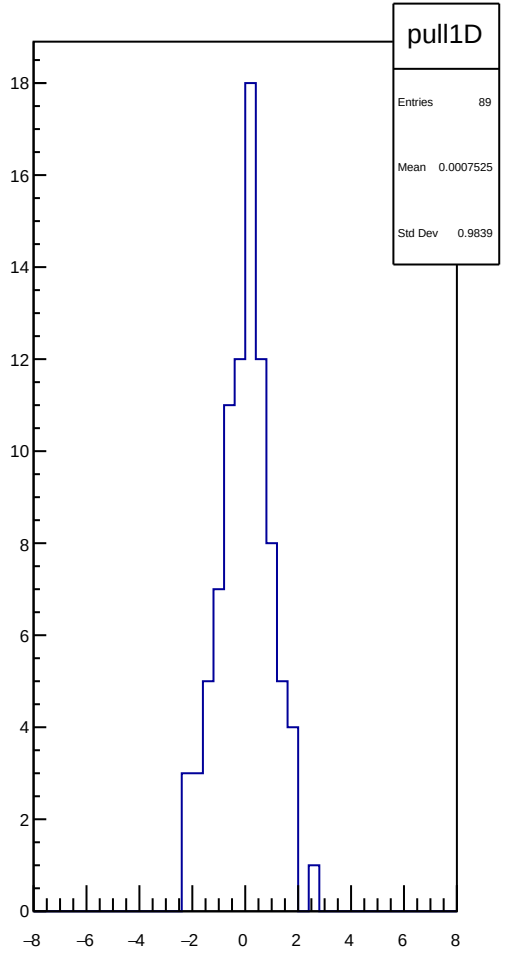

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 105.8 / 88
p0 0.008554 ± 0.01452
pull
Entries 89
Mean −193.9
Std Dev 0

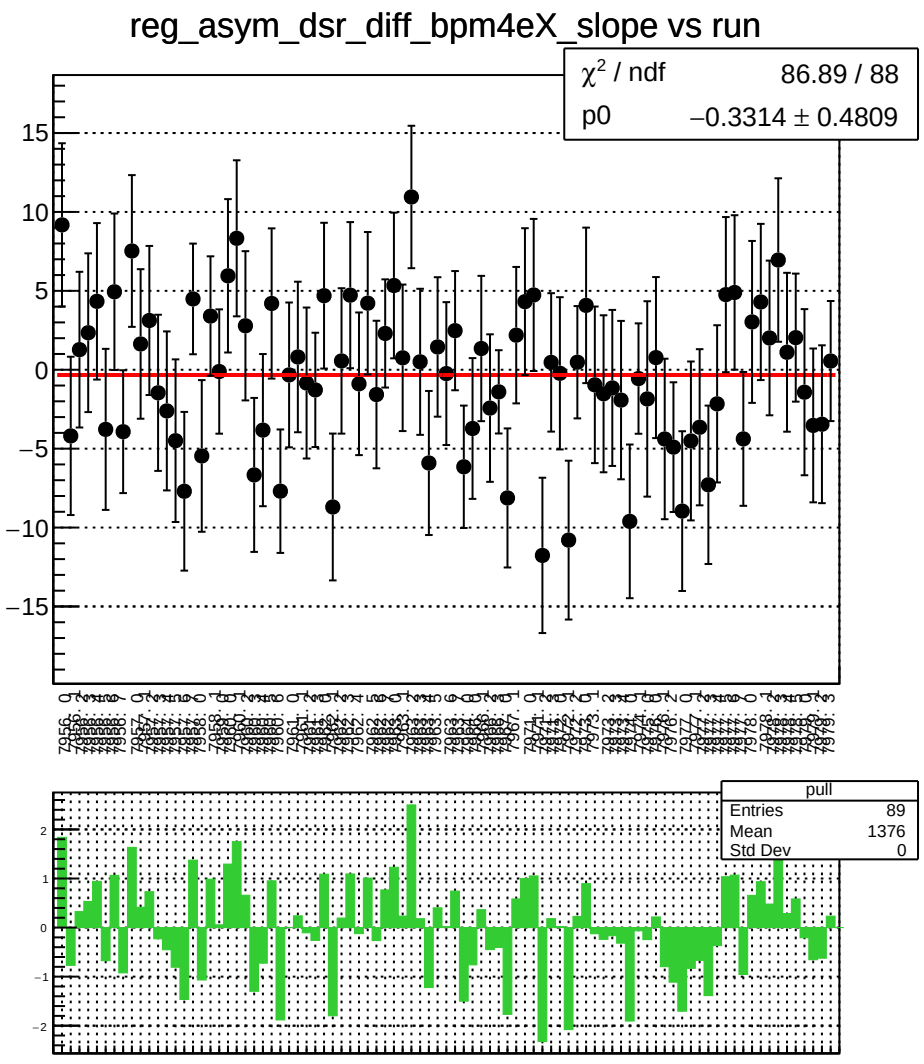

pull1D
Entries 89
Mean −0.01635
Std Dev 1.09

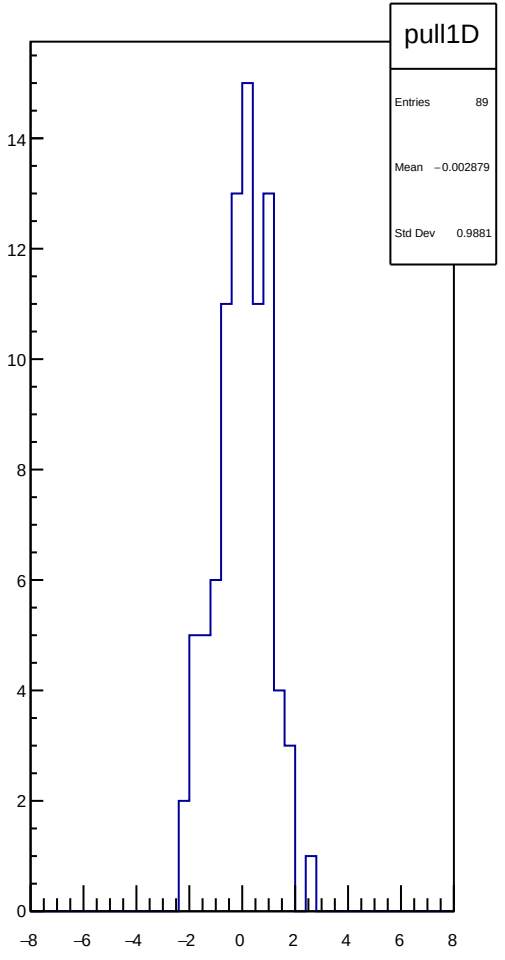

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 86.67 / 88
p0 0.3515 ± 0.5427
pull
Entries 89
Mean −2186
Std Dev 0

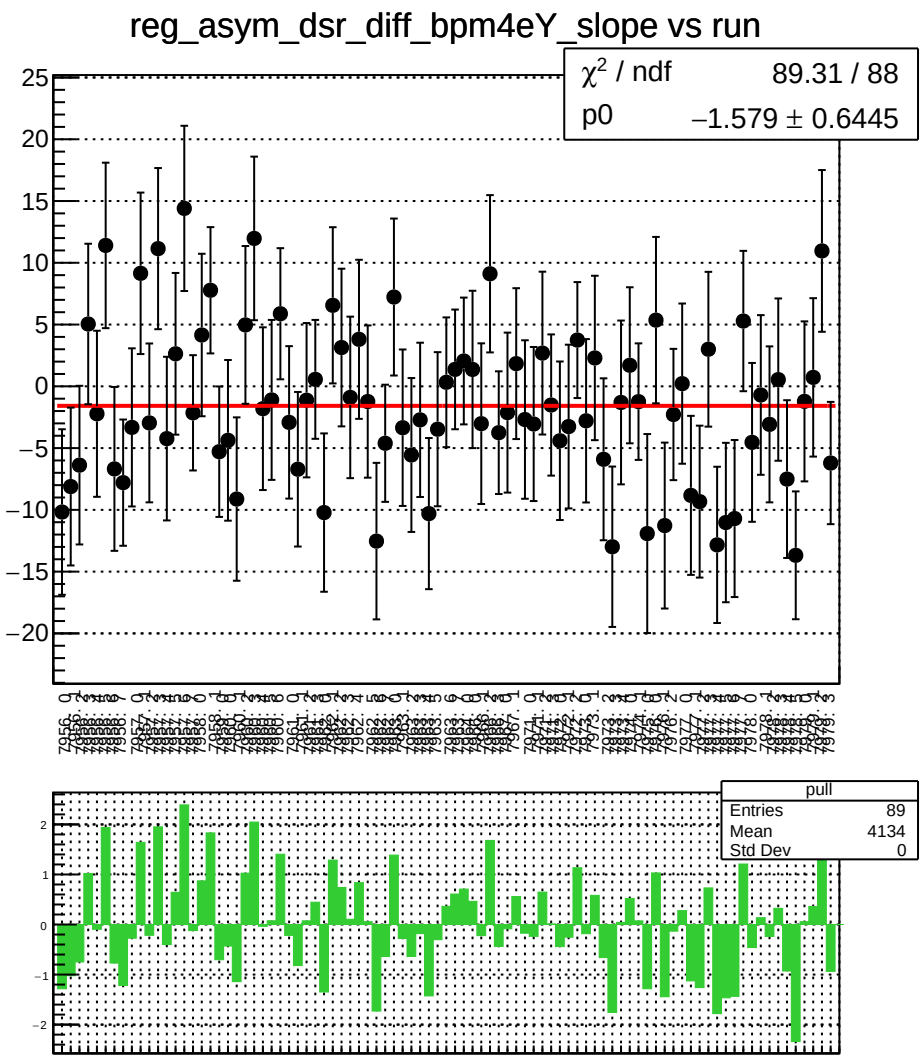

pull1D
Entries 89
Mean −0.00161
Std Dev 0.9868

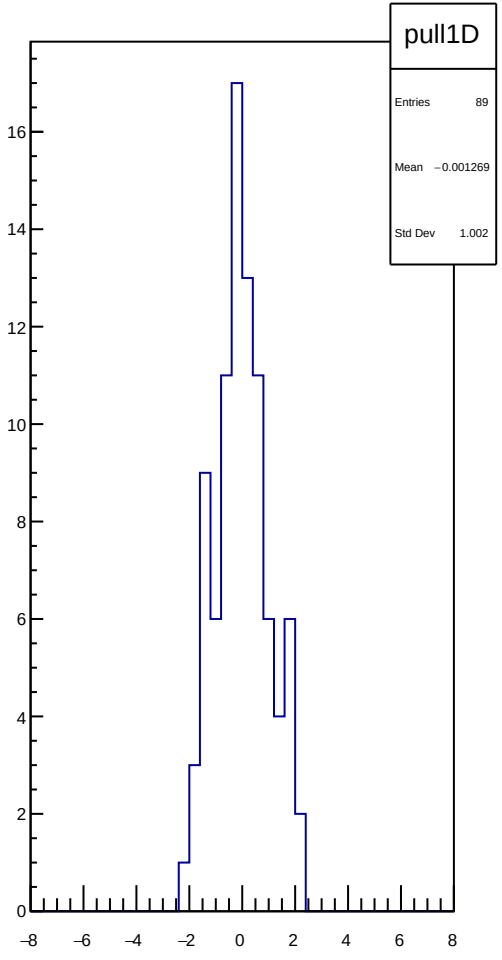

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 86.17 / 88
p0 1.338 ± 0.5629
pull
Entries 89
Mean 7217
Std Dev 0

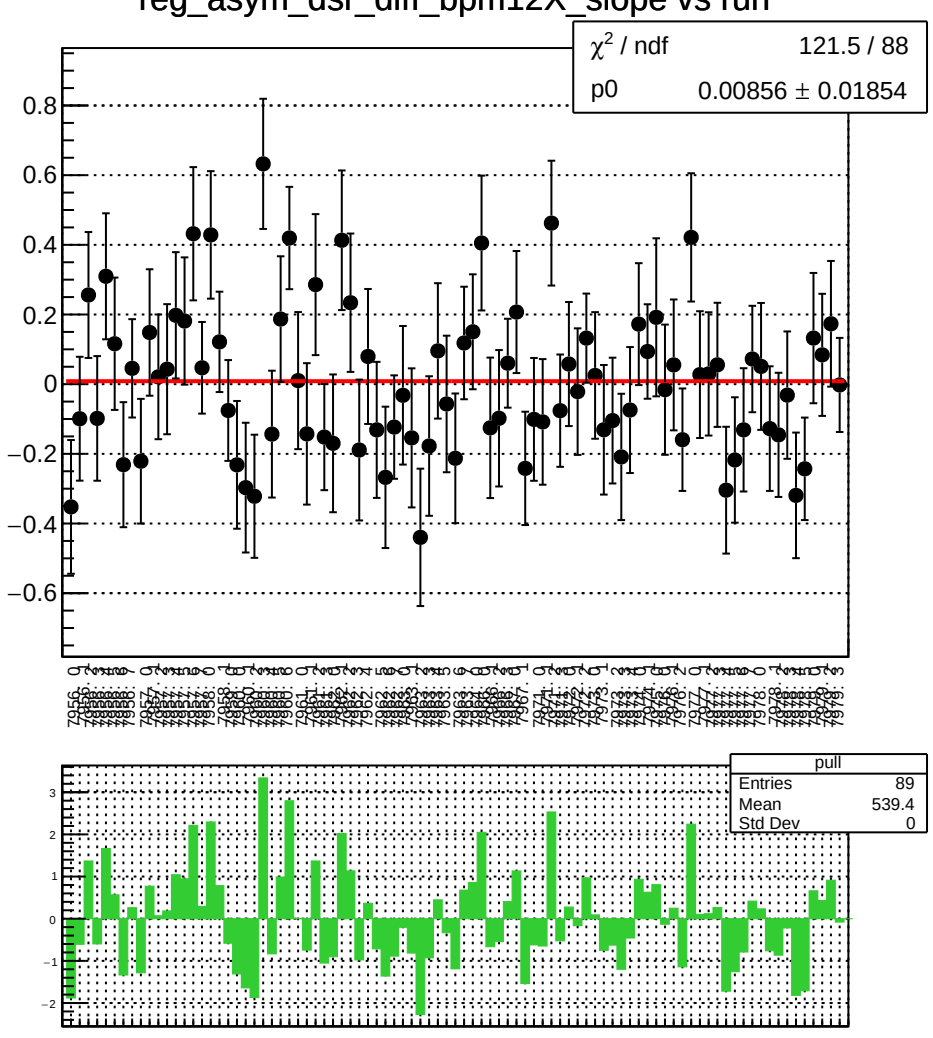

pull1D
Entries 89
Mean 0.0007525
Std Dev 0.9839

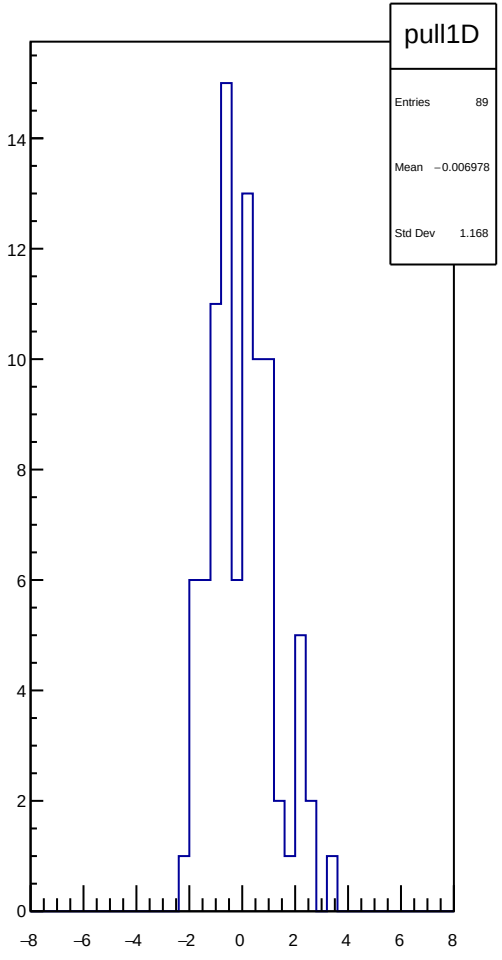

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 86.89 / 88
p0 −0.3314 ± 0.4809
pull
Entries 89
Mean 1376
Std Dev 0

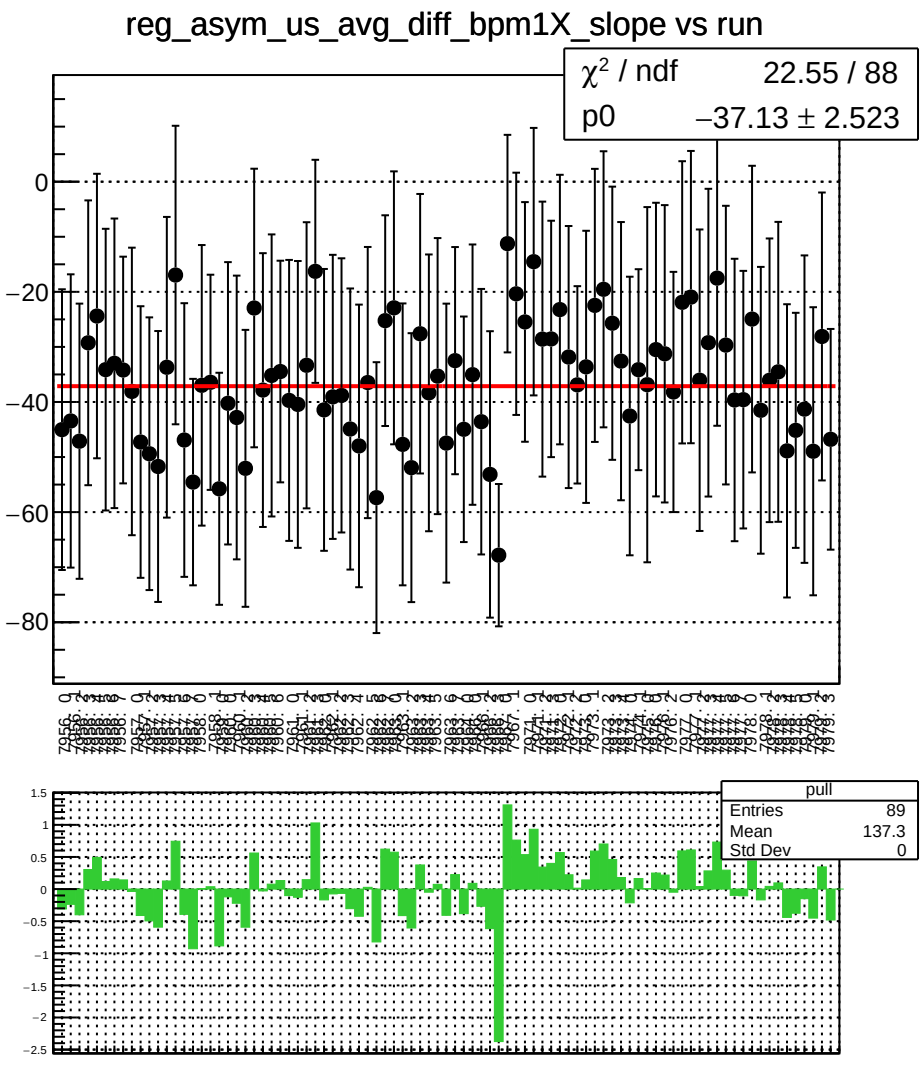

pull1D
Entries 89
Mean −0.002879
Std Dev 0.9881

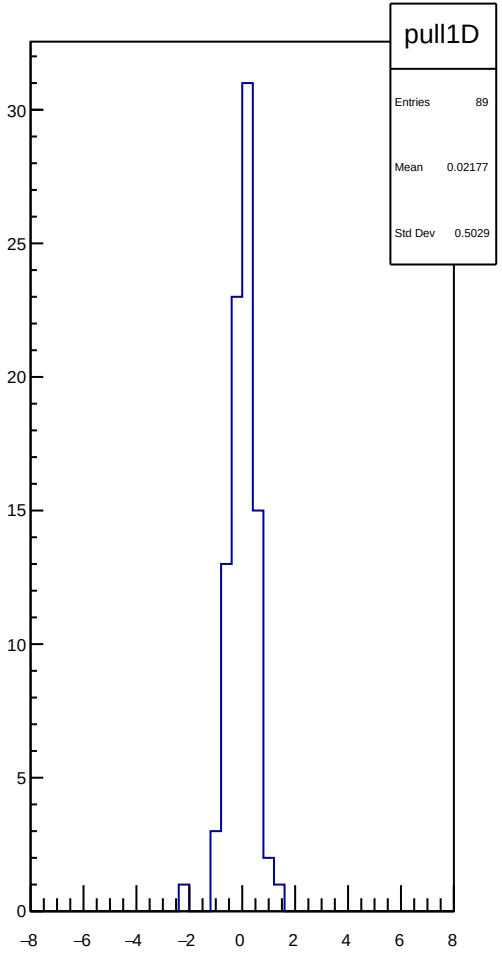

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 89.31 / 88
p0 −1.579 ± 0.6445
pull
Entries 89
Mean 4134
Std Dev 0

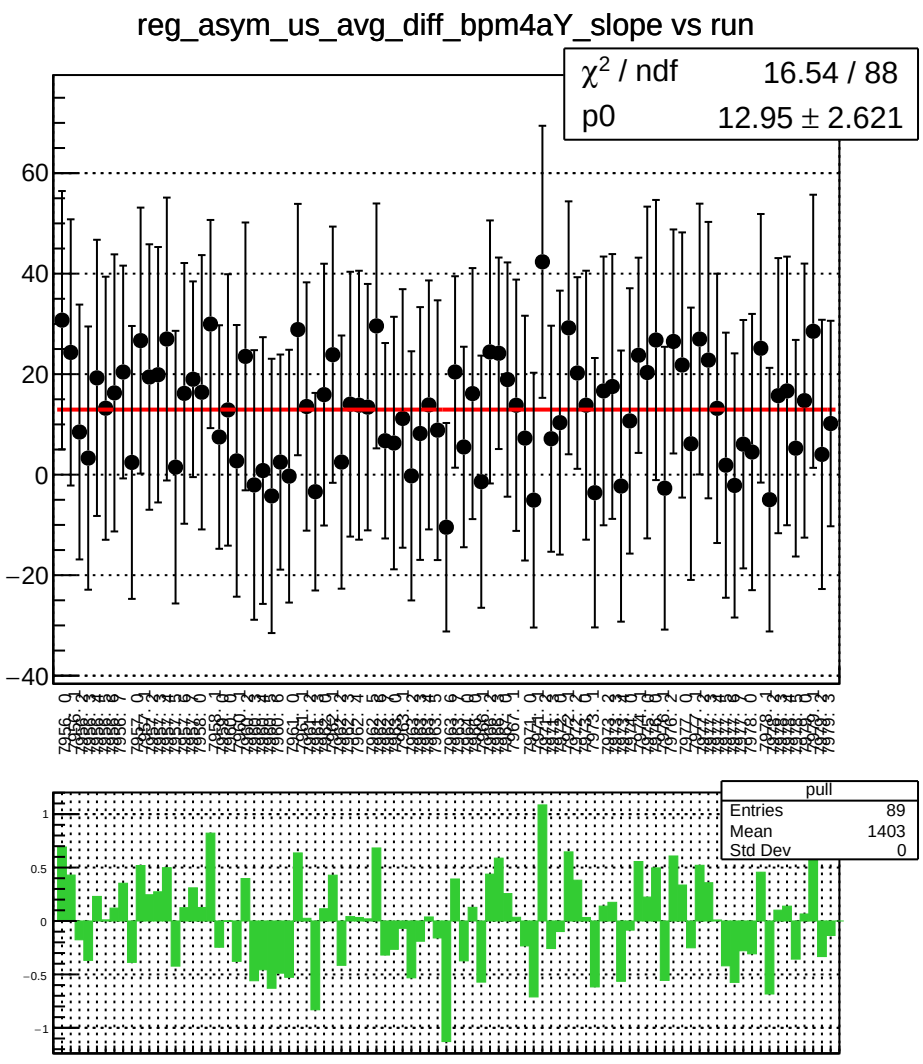

pull1D
Entries 89
Mean −0.001269
Std Dev 1.002

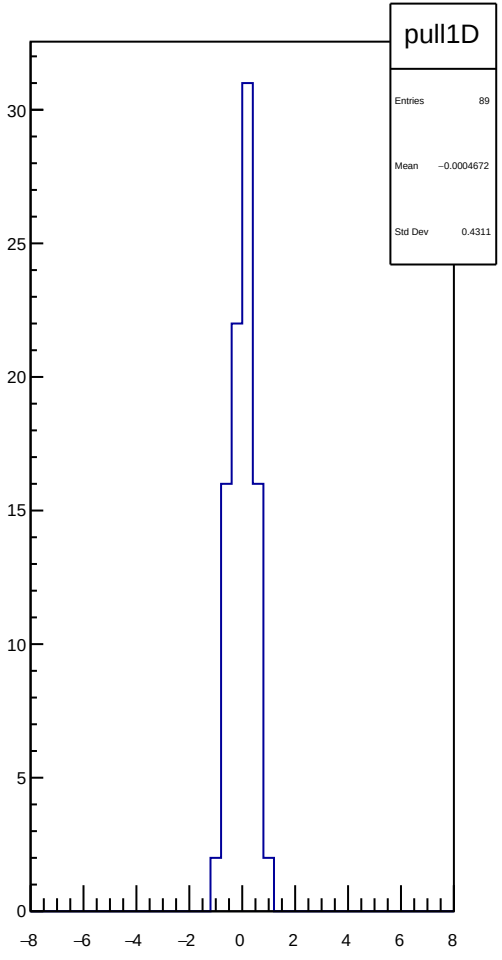

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 121.5 / 88
p0 0.00856 ± 0.01854
pull
Entries 89
Mean 539.4
Std Dev 0

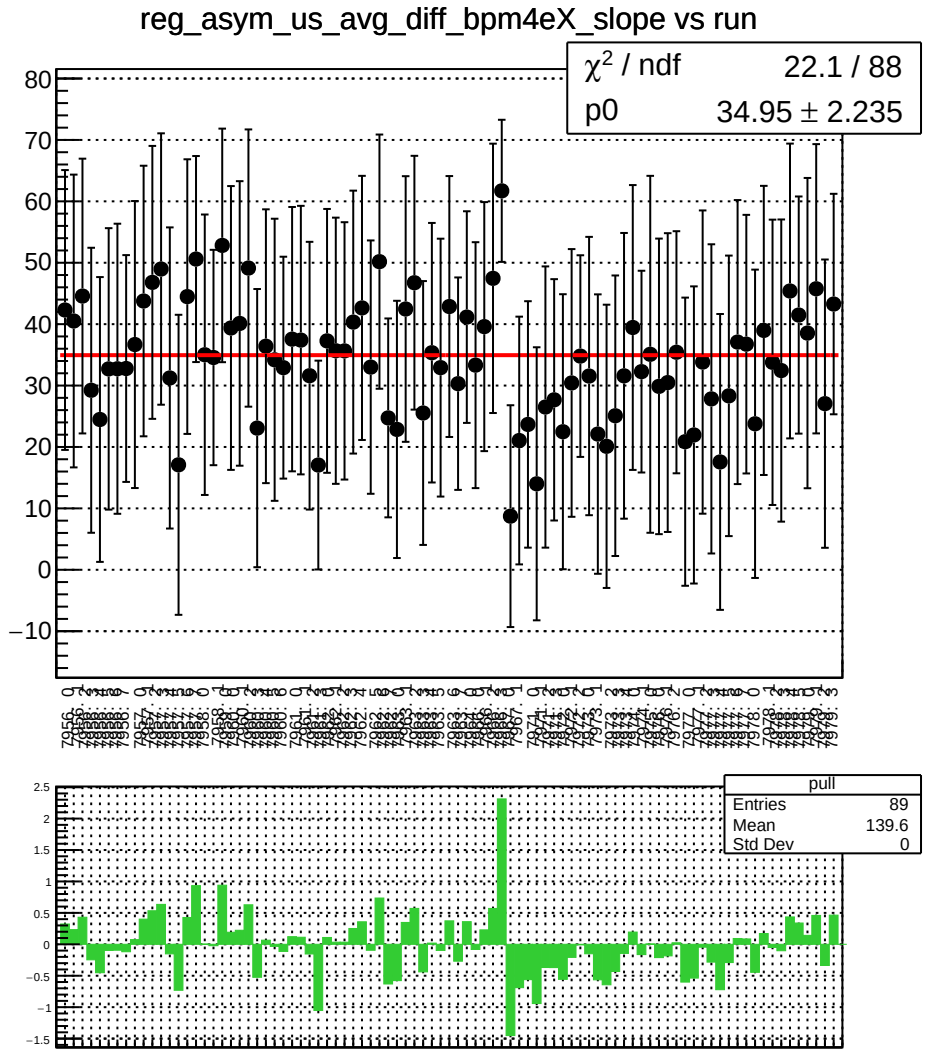

pull1D
Entries 89
Mean −0.006978
Std Dev 1.168

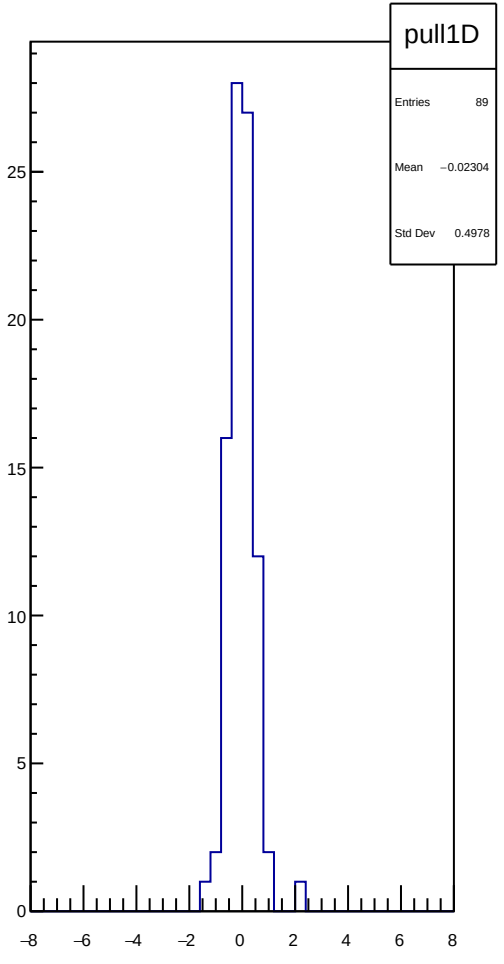

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 22.55 / 88
p0 −37.13 ± 2.523
pull
Entries 89
Mean 137.3
Std Dev 0

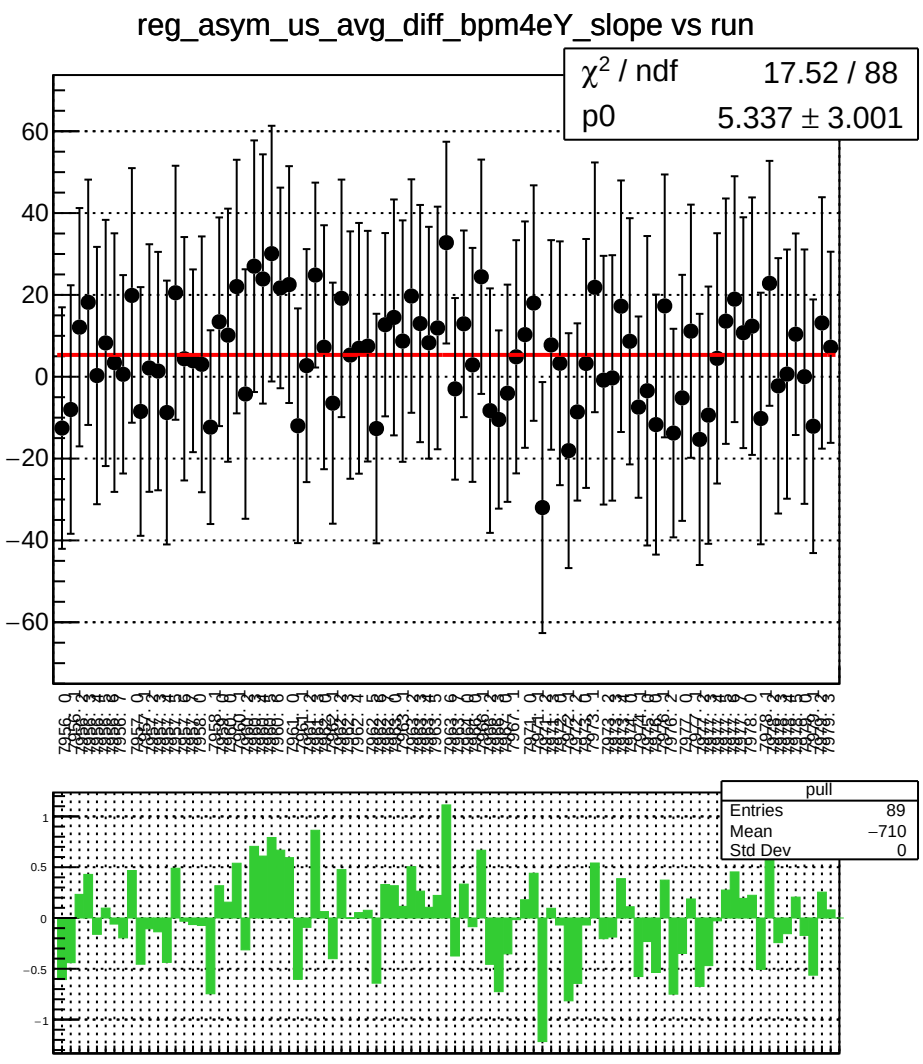

pull1D
Entries 89
Mean 0.02177
Std Dev 0.5029

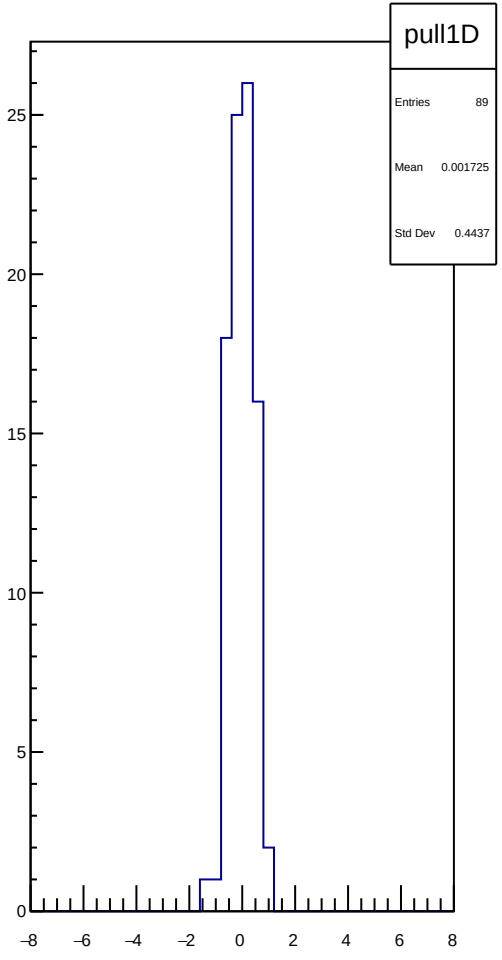

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.54 / 88
p0 12.95 ± 2.621
pull
Entries 89
Mean 1403
Std Dev 0

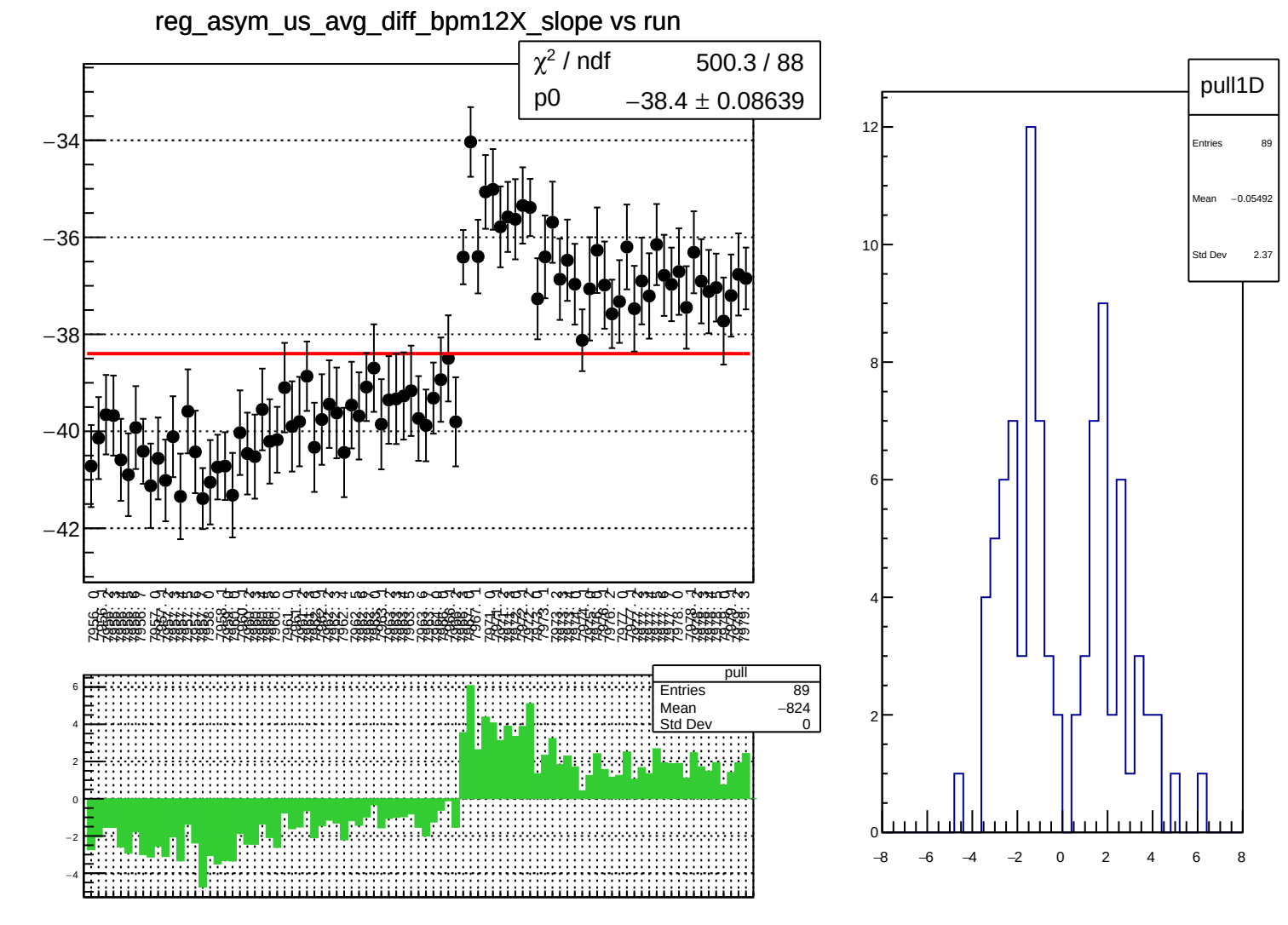

pull1D
Entries 89
Mean −0.0004672
Std Dev 0.4311

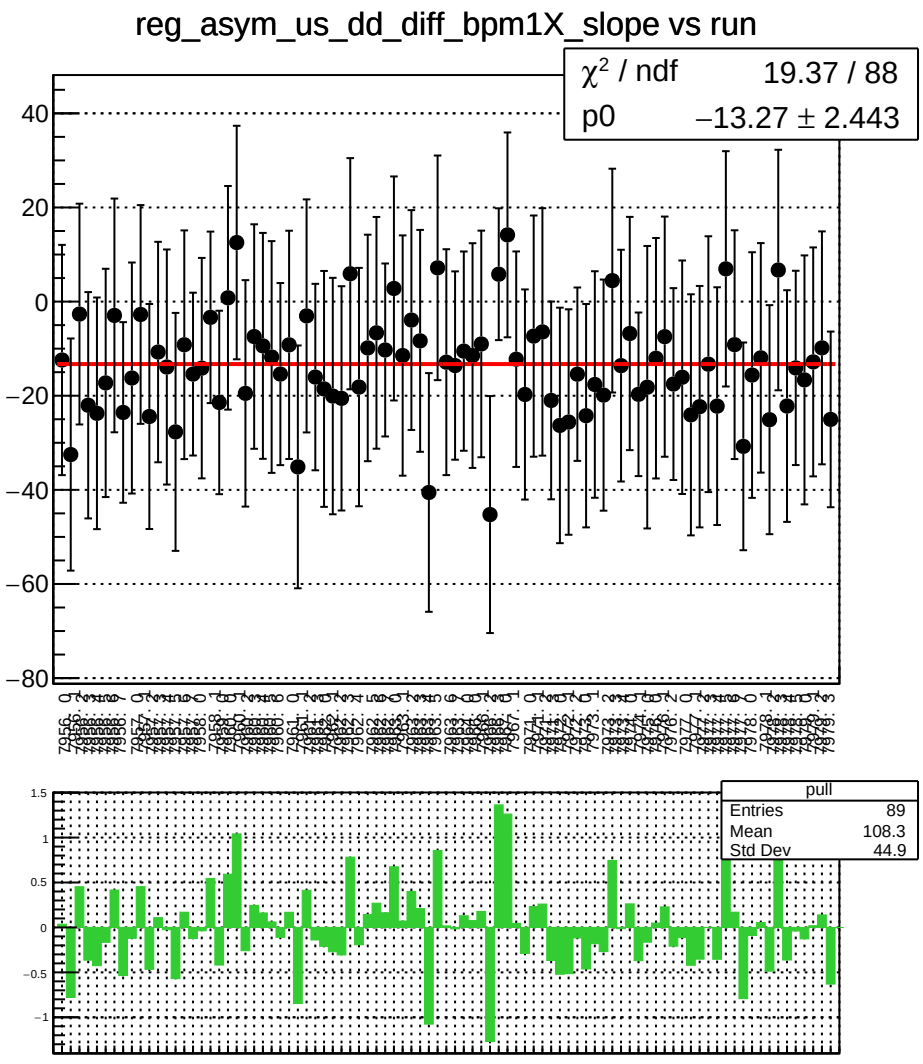

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.1 / 88
p0 34.95 ± 2.235
pull
Entries 89
Mean 139.6
Std Dev 0

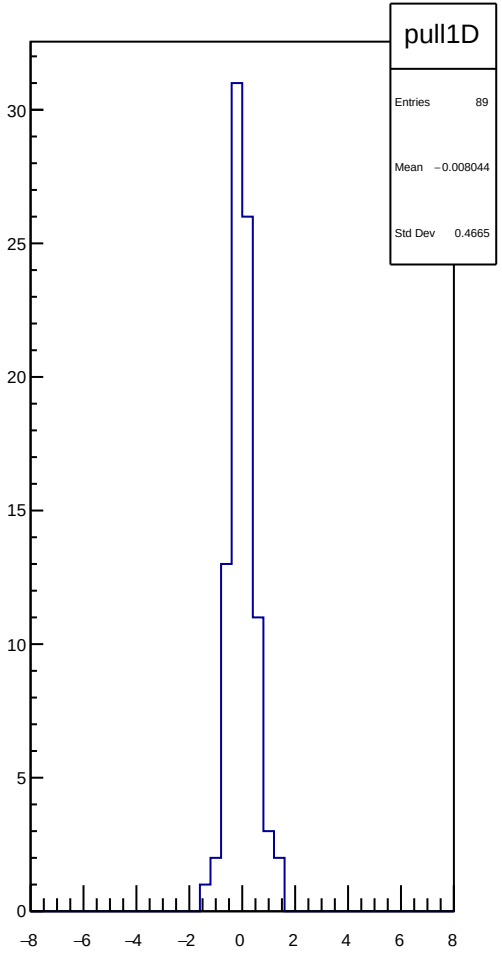

pull1D
Entries 89
Mean −0.02304
Std Dev 0.4978

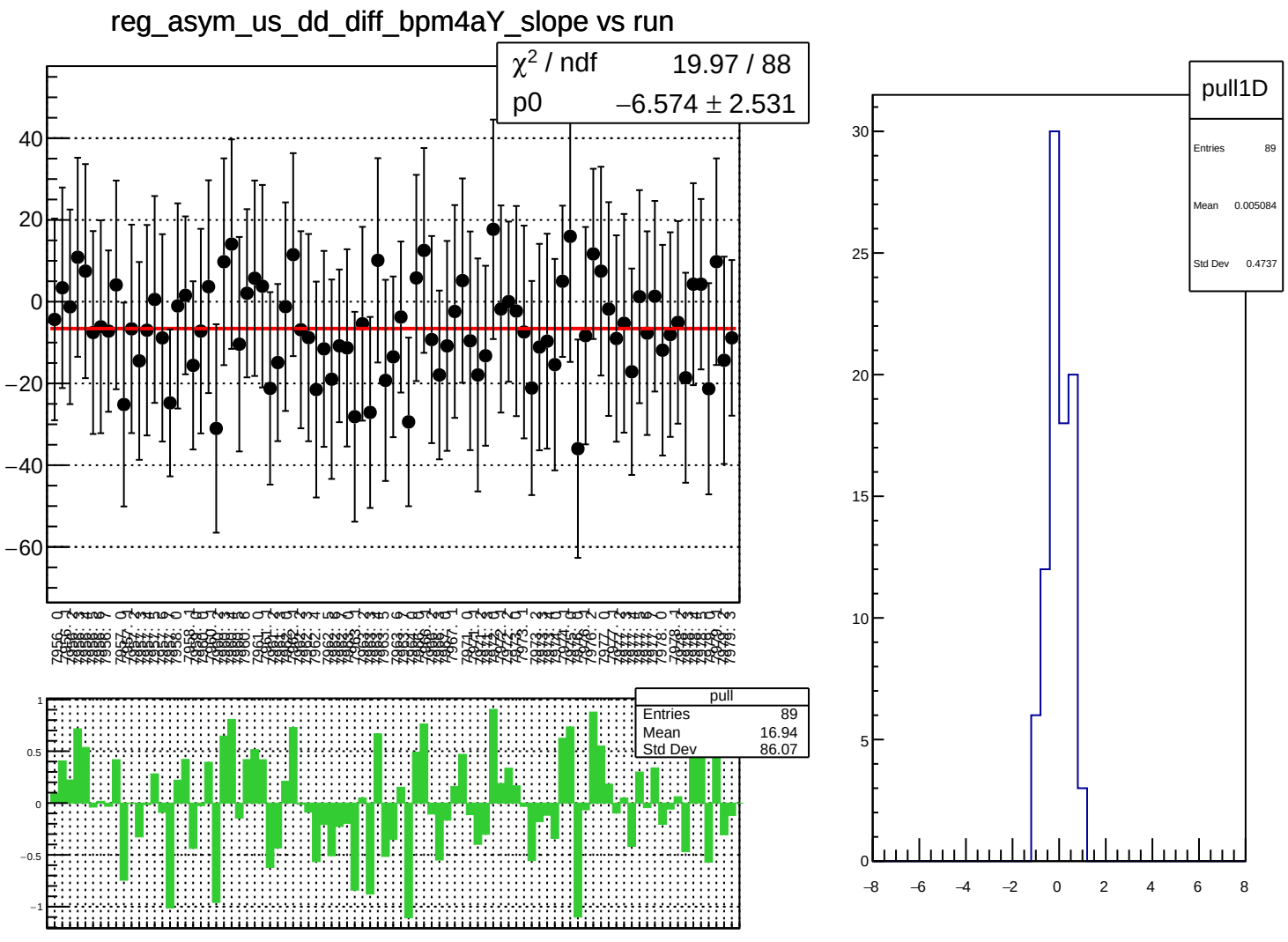

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.52 / 88
p0 5.337 ± 3.001
pull
Entries 89
Mean −710
Std Dev 0

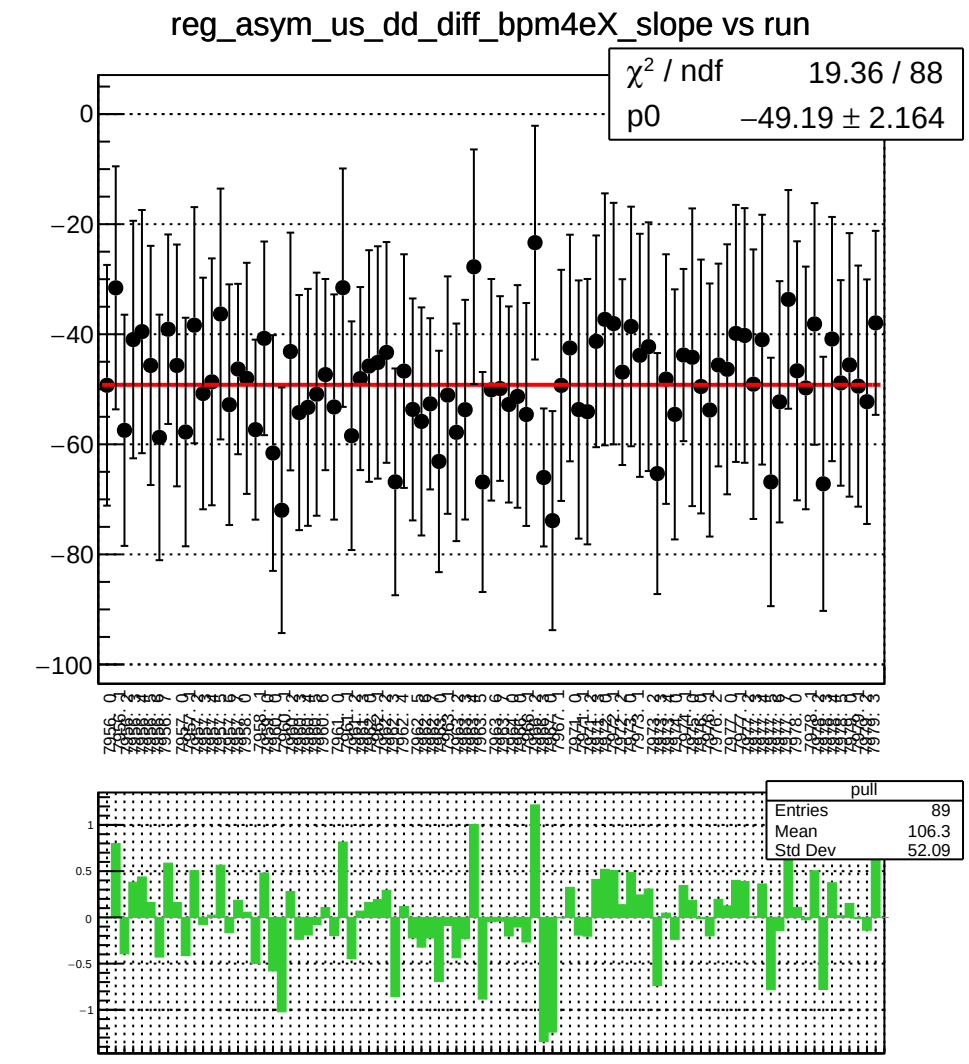

pull1D
Entries 89
Mean 0.001725
Std Dev 0.4437

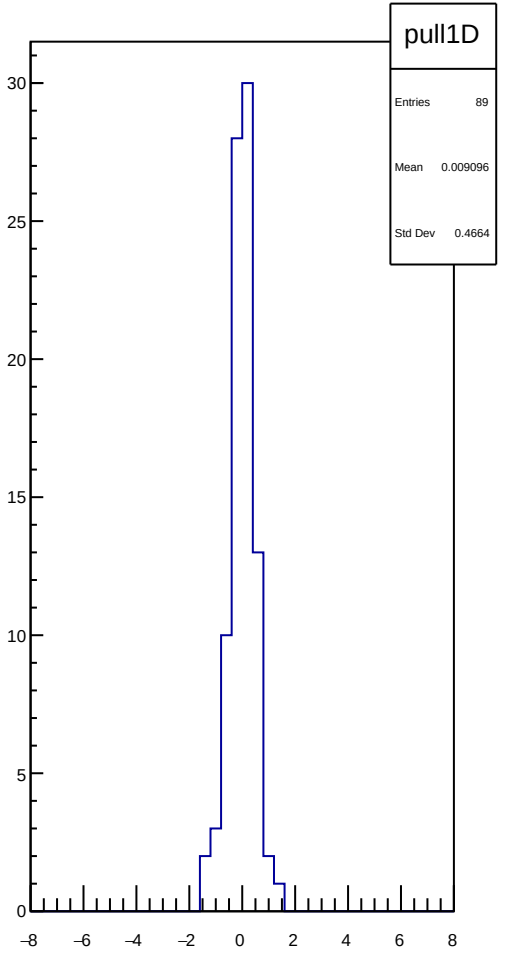

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 500.3 / 88
p0 −38.4 ± 0.08639
−34
−36
−38
−40
−42
pull
Entries 89
Mean −824
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 89
Mean −0.05492
Std Dev 2.37
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

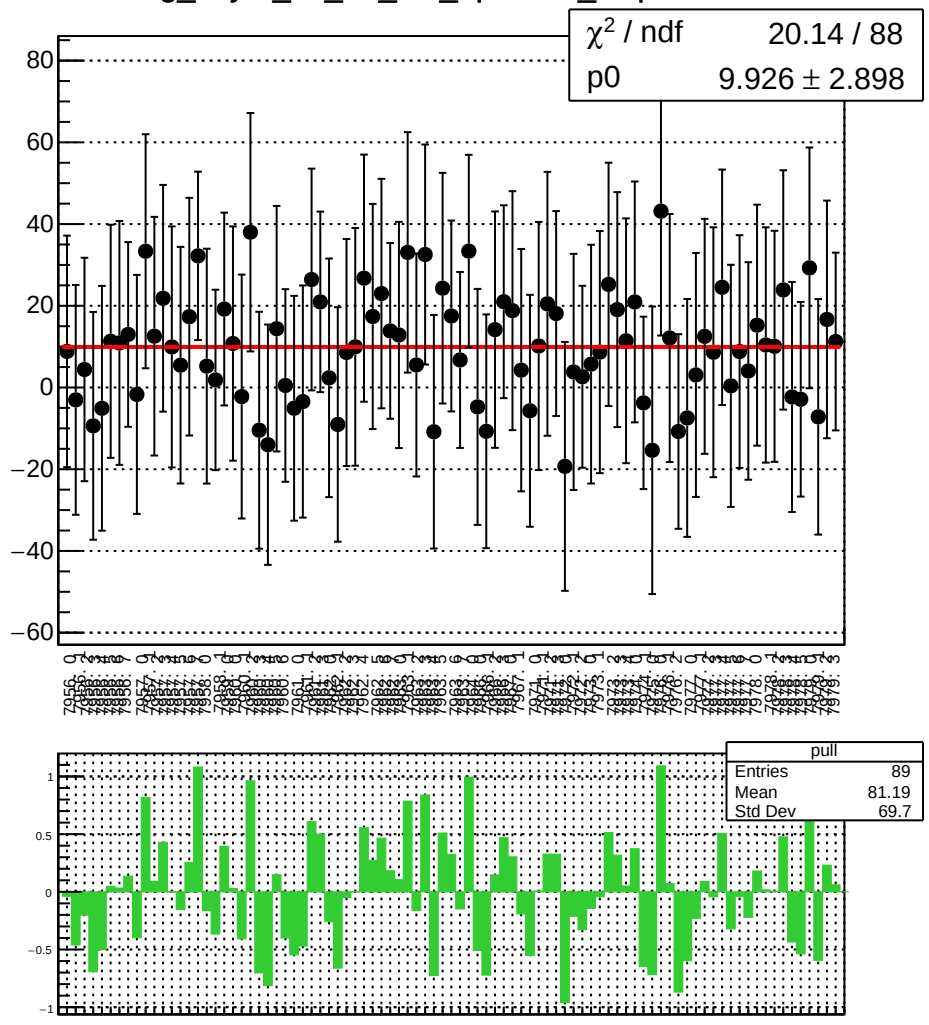

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 19.37 / 88
p0 −13.27 ± 2.443
pull
Entries 89
Mean 108.3
Std Dev 44.9

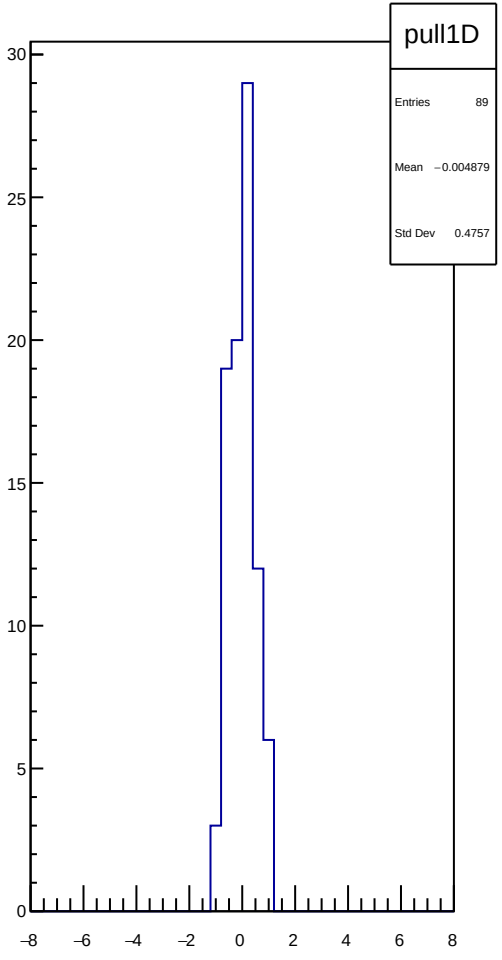

pull1D
Entries 89
Mean −0.008044
Std Dev 0.4665

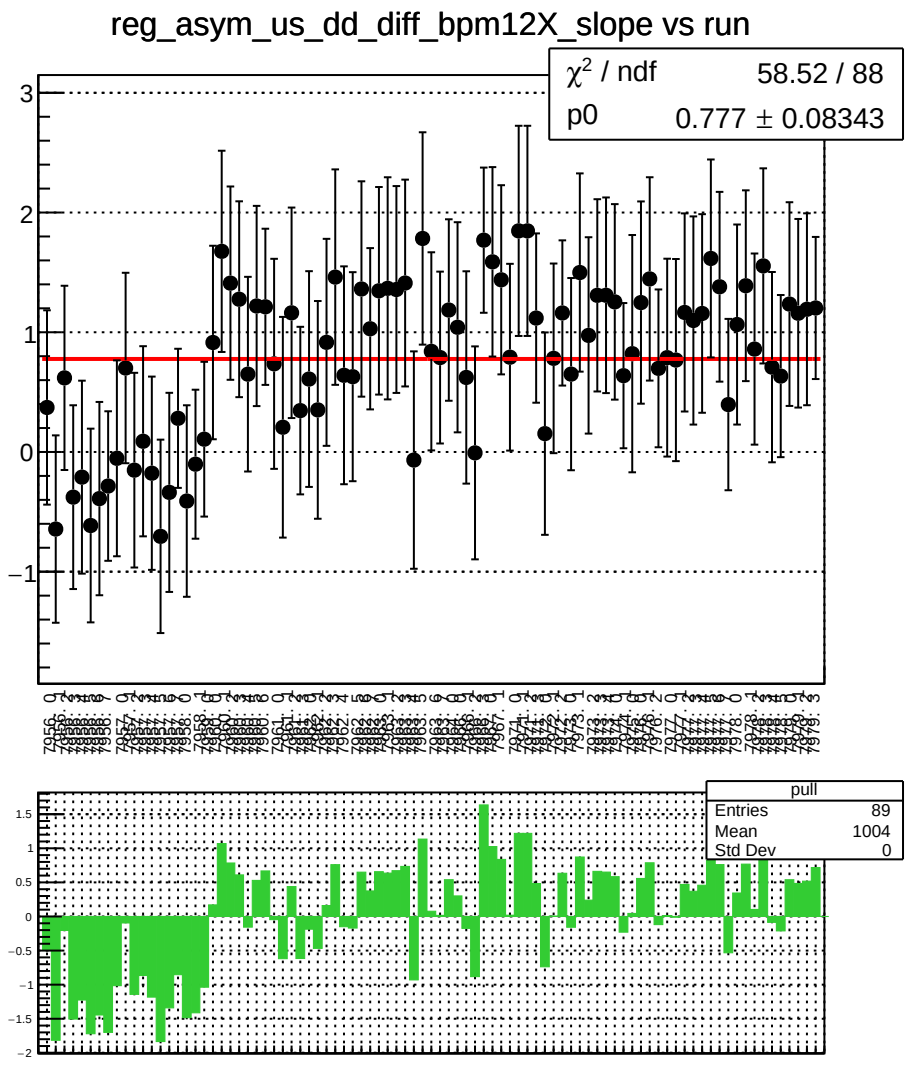

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.97 / 88
p0 −6.574 ± 2.531
pull
Entries 89
Mean 16.94
Std Dev 86.07
pull1D
Entries 89
Mean 0.005084
Std Dev 0.4737

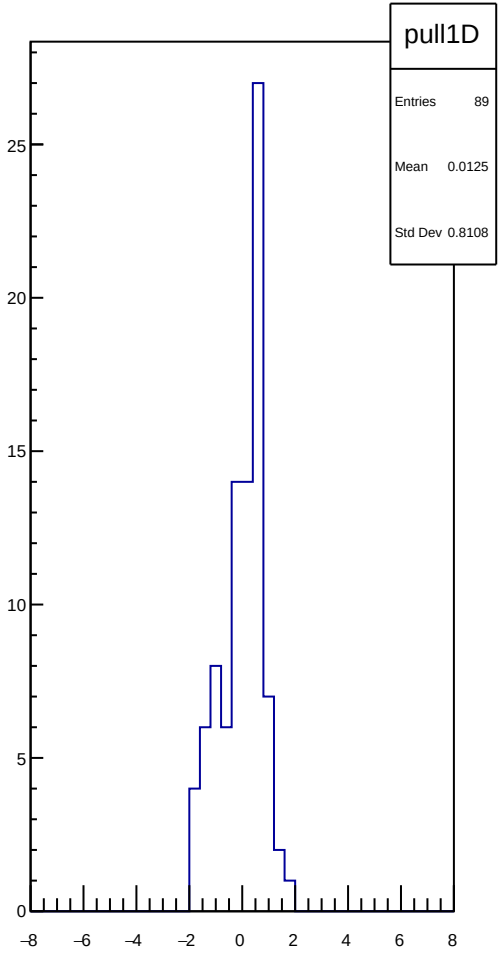

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.36 / 88
p0 −49.19 ± 2.164
0
−20
−40
−60
−80
−100
pull
Entries 89
Mean 106.3
Std Dev 52.09
1
0.5
0
−0.5
−1

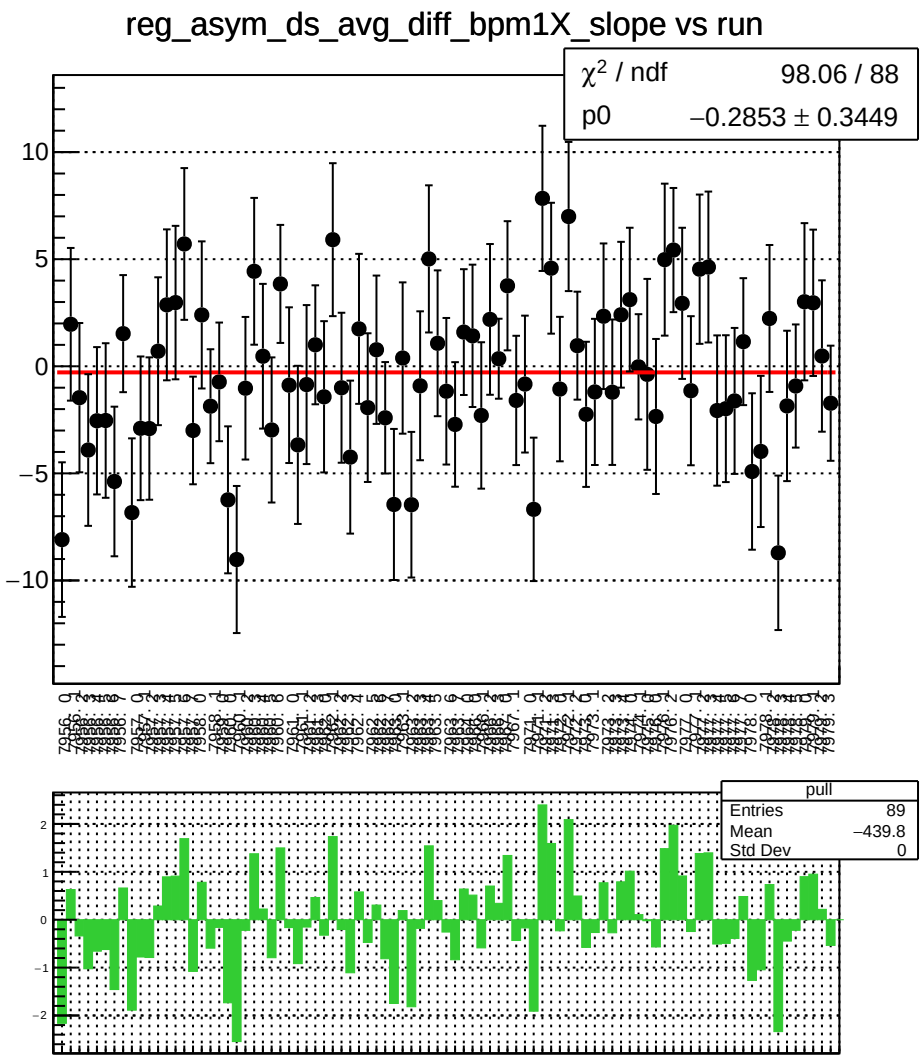

pull1D
Entries 89
Mean 0.009096
Std Dev 0.4664
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

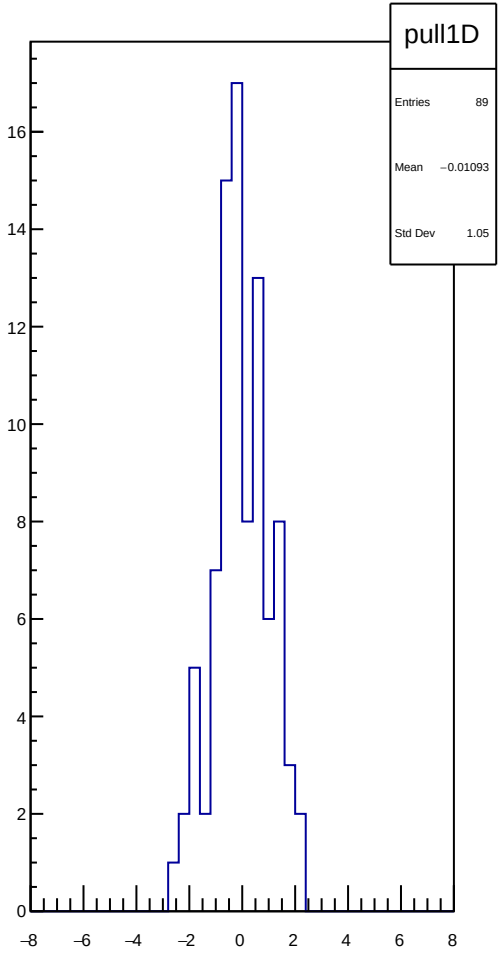

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.14 / 88
p0 9.926 ± 2.898
pull
Entries 89
Mean 81.19
Std Dev 69.7

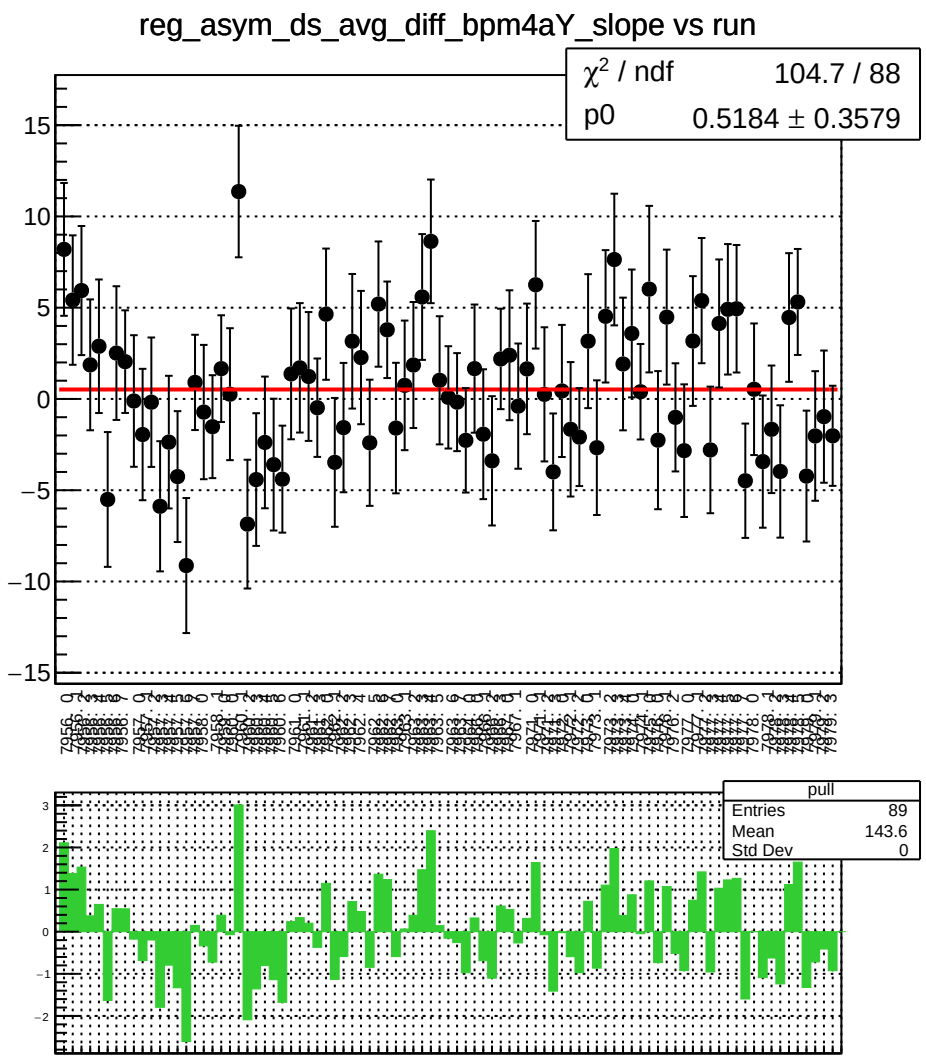

pull1D
Entries 89
Mean −0.004879
Std Dev 0.4757

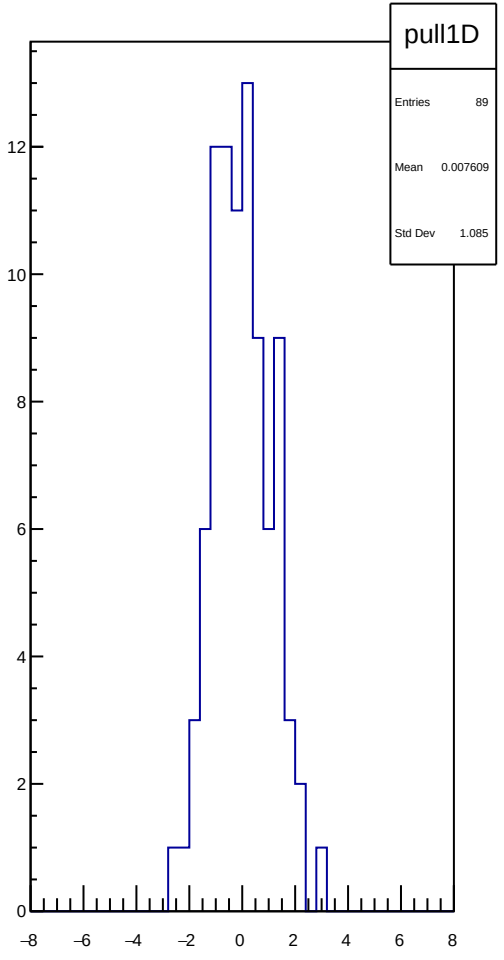

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 58.52 / 88
p0 0.777 ± 0.08343
pull
Entries 89
Mean 1004
Std Dev 0

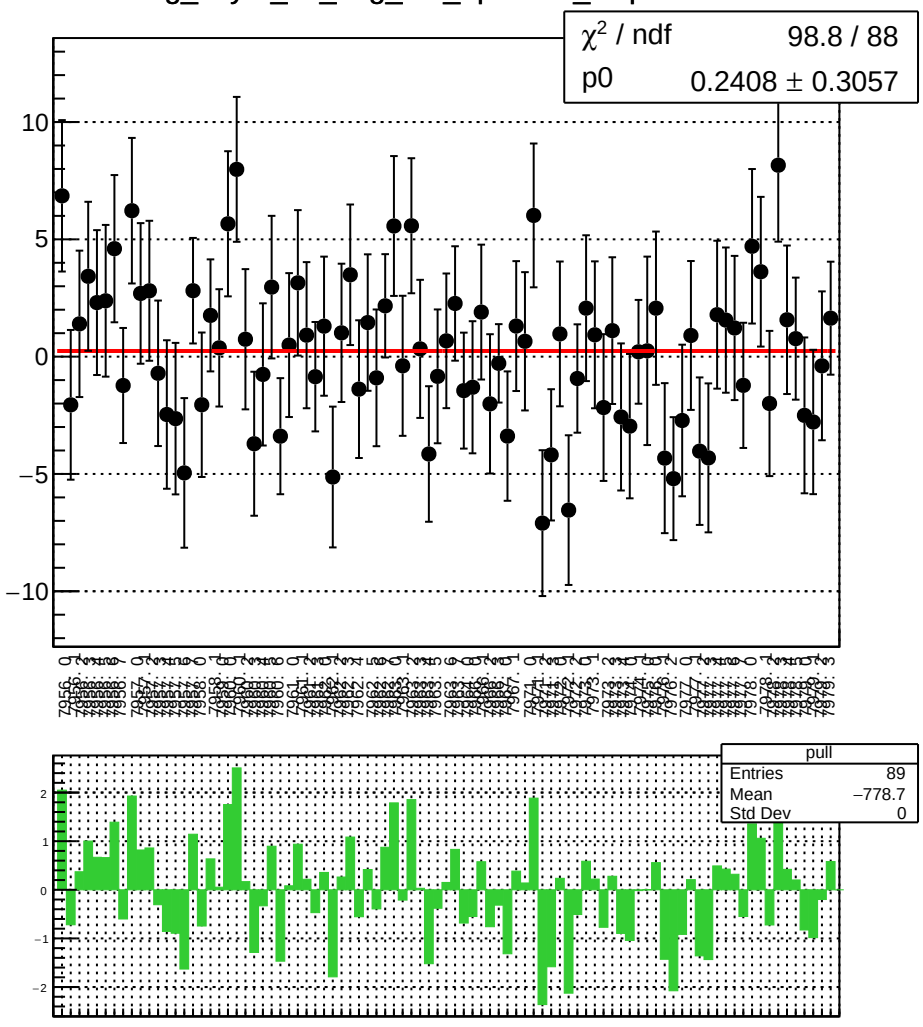

pull1D
Entries 89
Mean 0.0125
Std Dev 0.8108

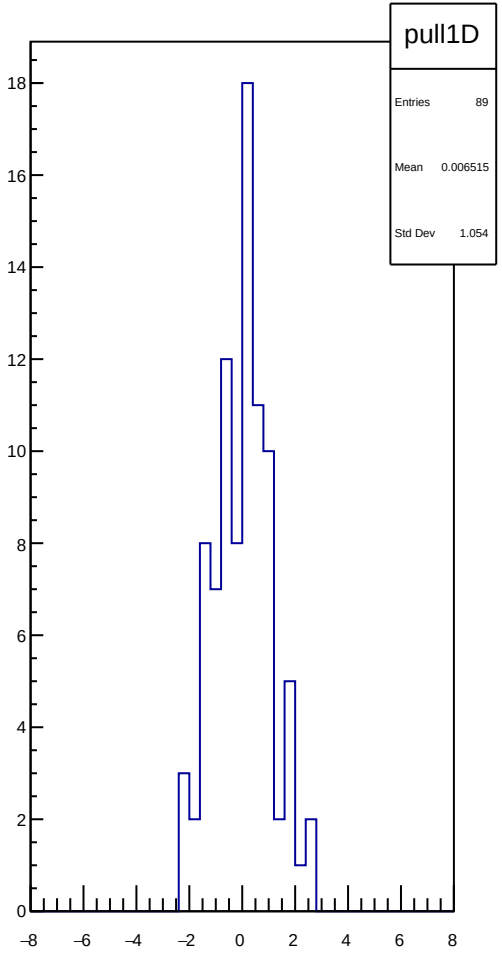

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 98.06 / 88
p0 −0.2853 ± 0.3449
pull
Entries 89
Mean −439.8
Std Dev 0

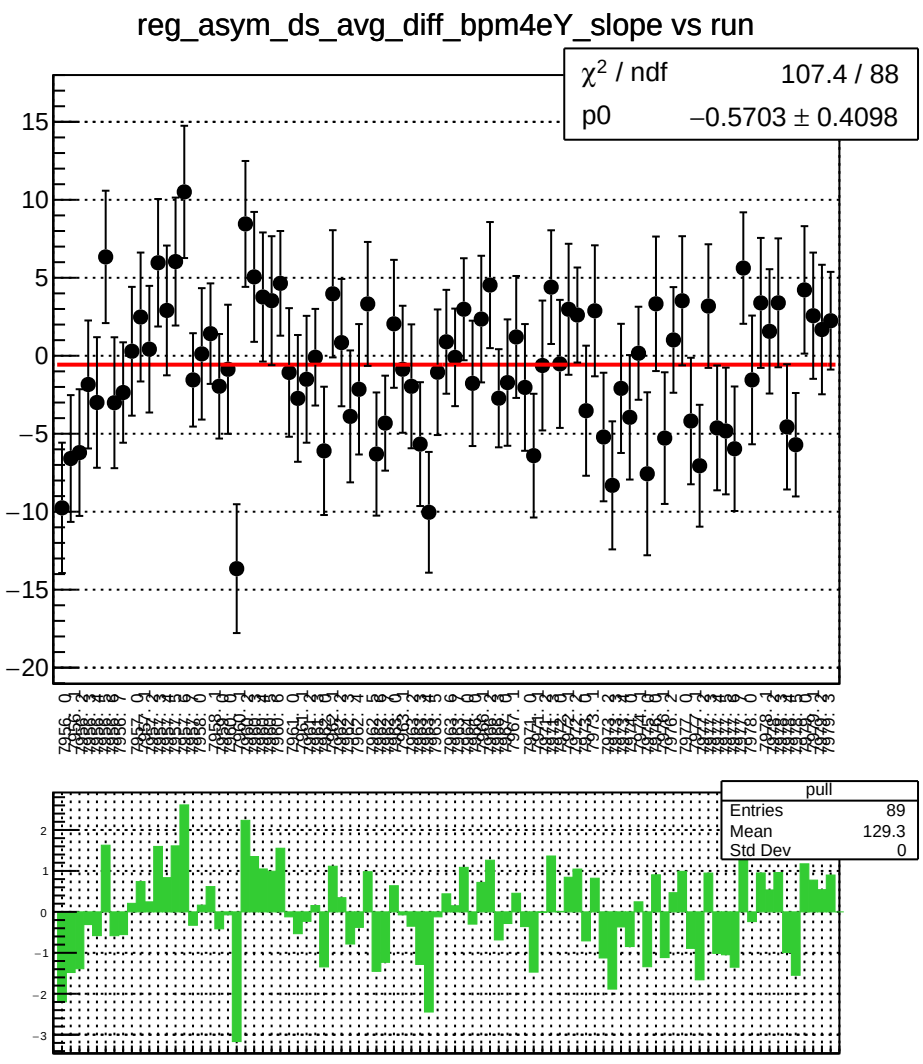

pull1D
Entries 89
Mean −0.01093
Std Dev 1.05

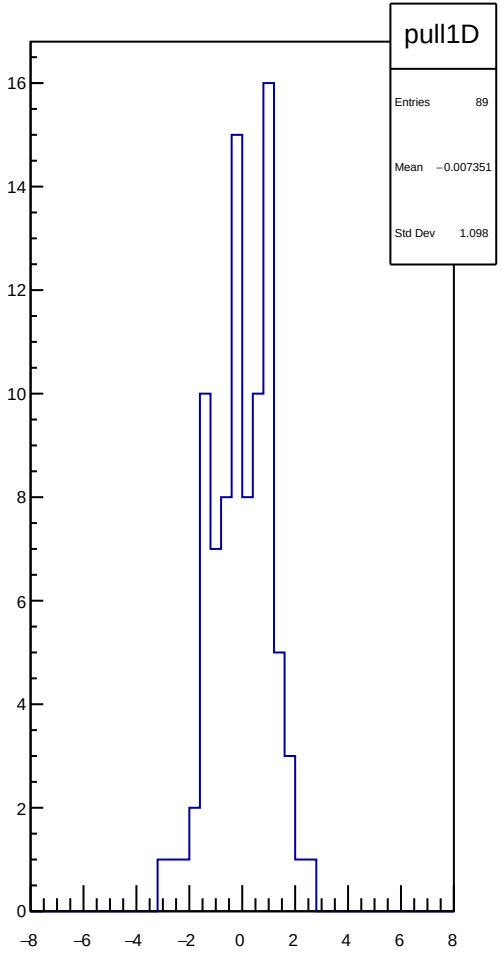

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 104.7 / 88
p0 0.5184 ± 0.3579
pull
Entries 89
Mean 143.6
Std Dev 0

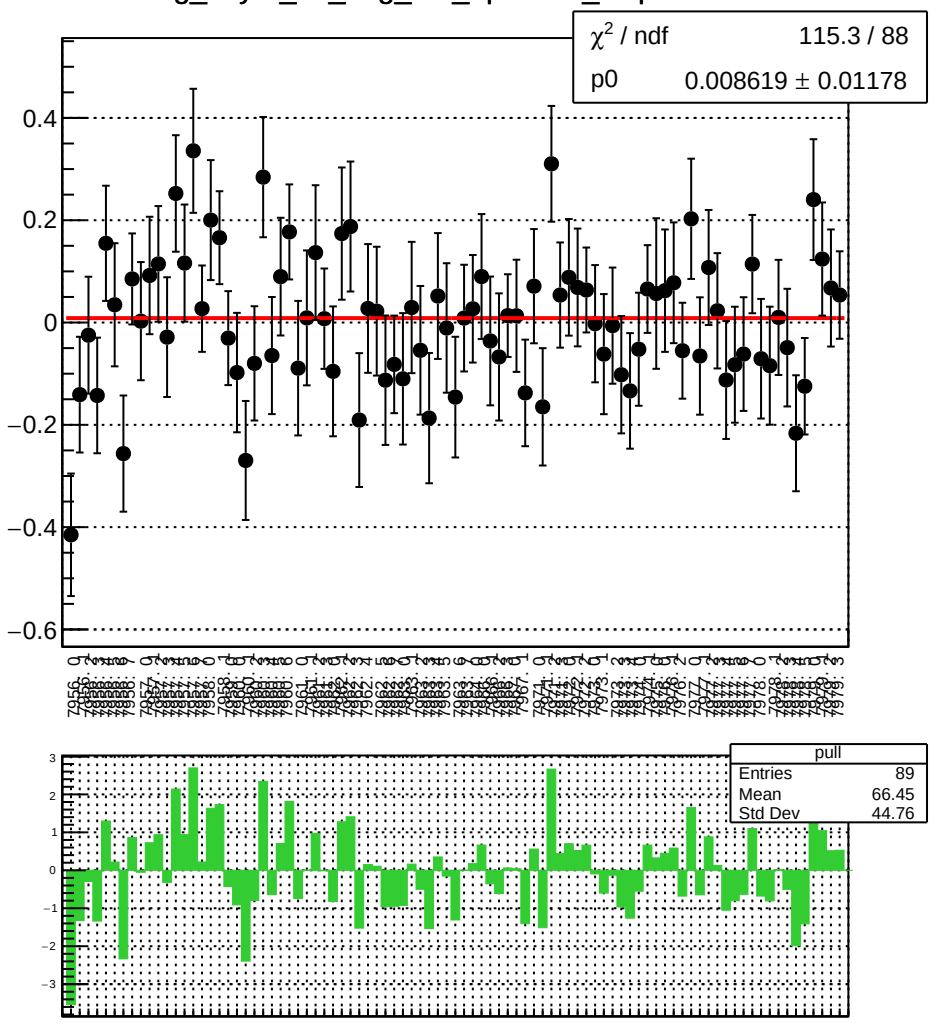

pull1D
Entries 89
Mean 0.007609
Std Dev 1.085

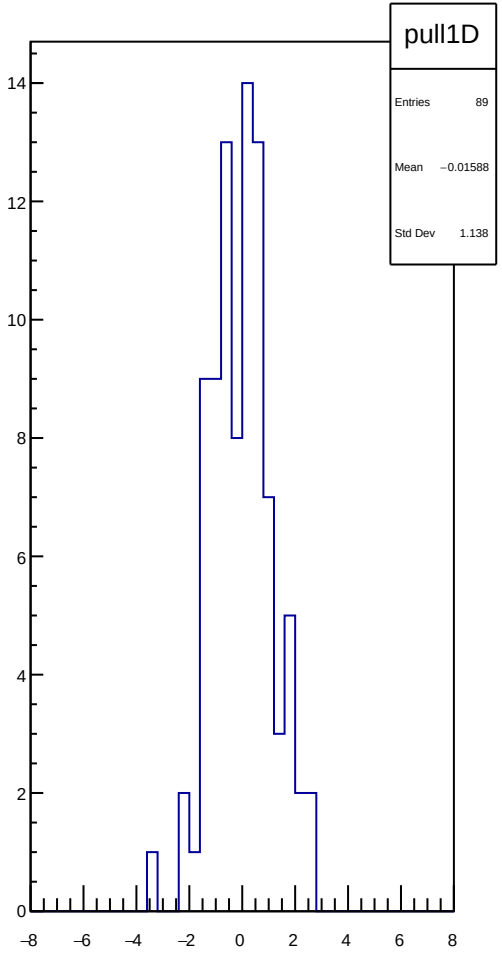

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 98.8 / 88
p0 0.2408 ± 0.3057
pull
Entries 89
Mean −778.7
Std Dev 0

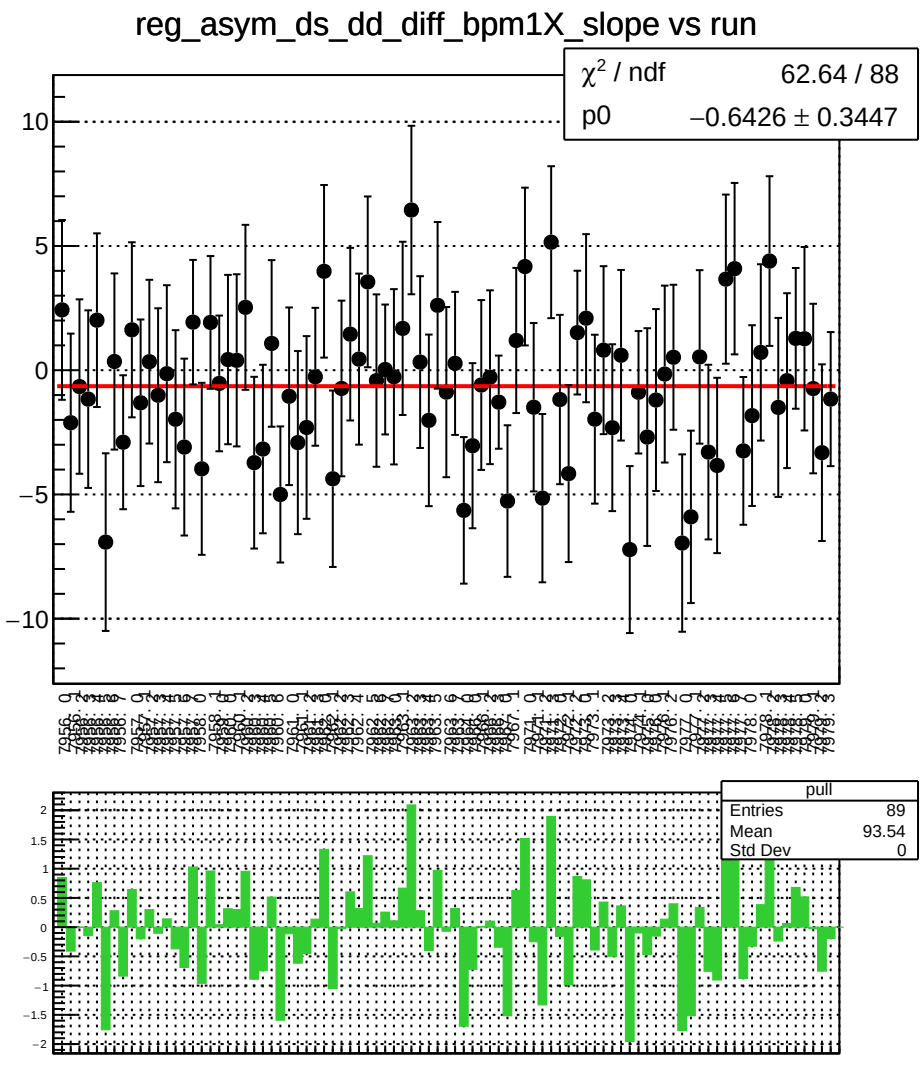

pull1D
Entries 89
Mean 0.006515
Std Dev 1.054

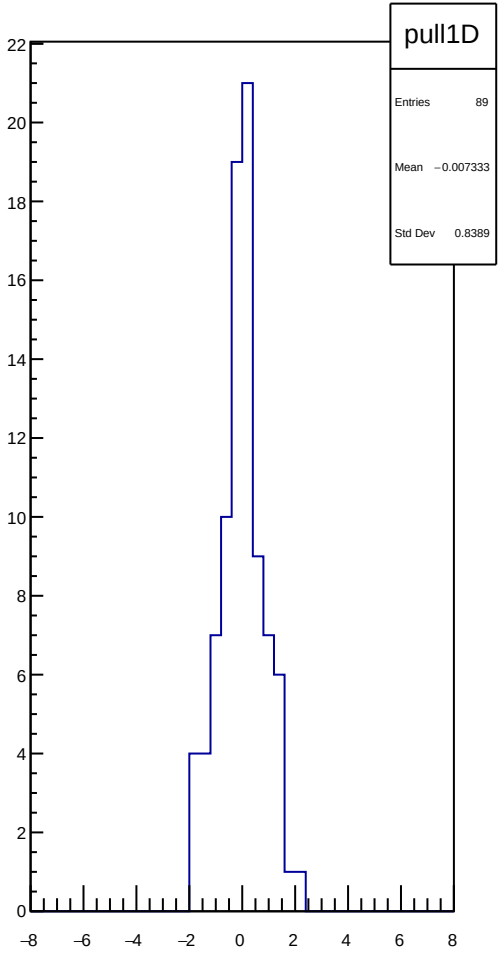

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 107.4 / 88
p0 −0.5703 ± 0.4098
pull
Entries 89
Mean 129.3
Std Dev 0

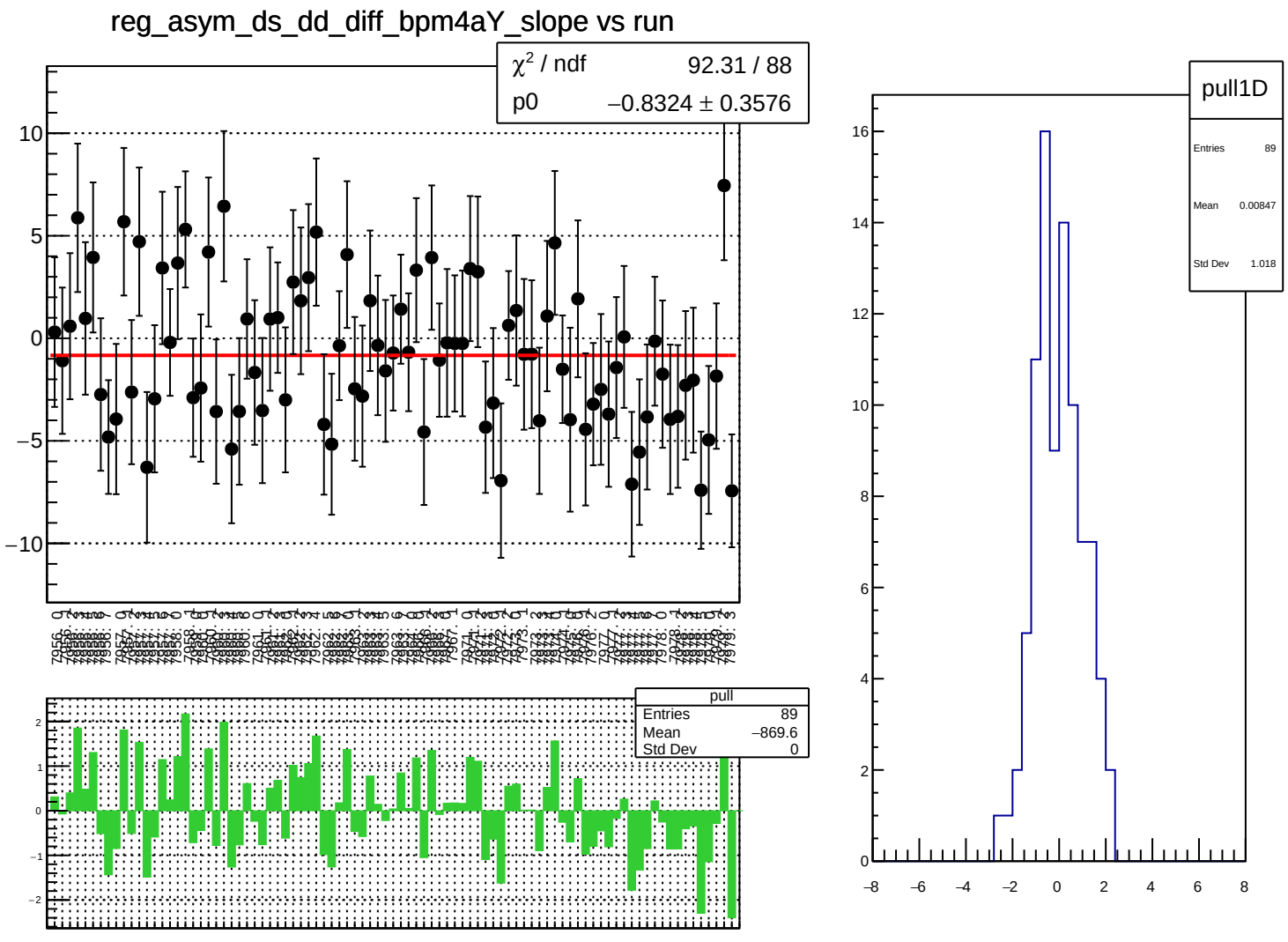

pull1D
Entries 89
Mean −0.007351
Std Dev 1.098

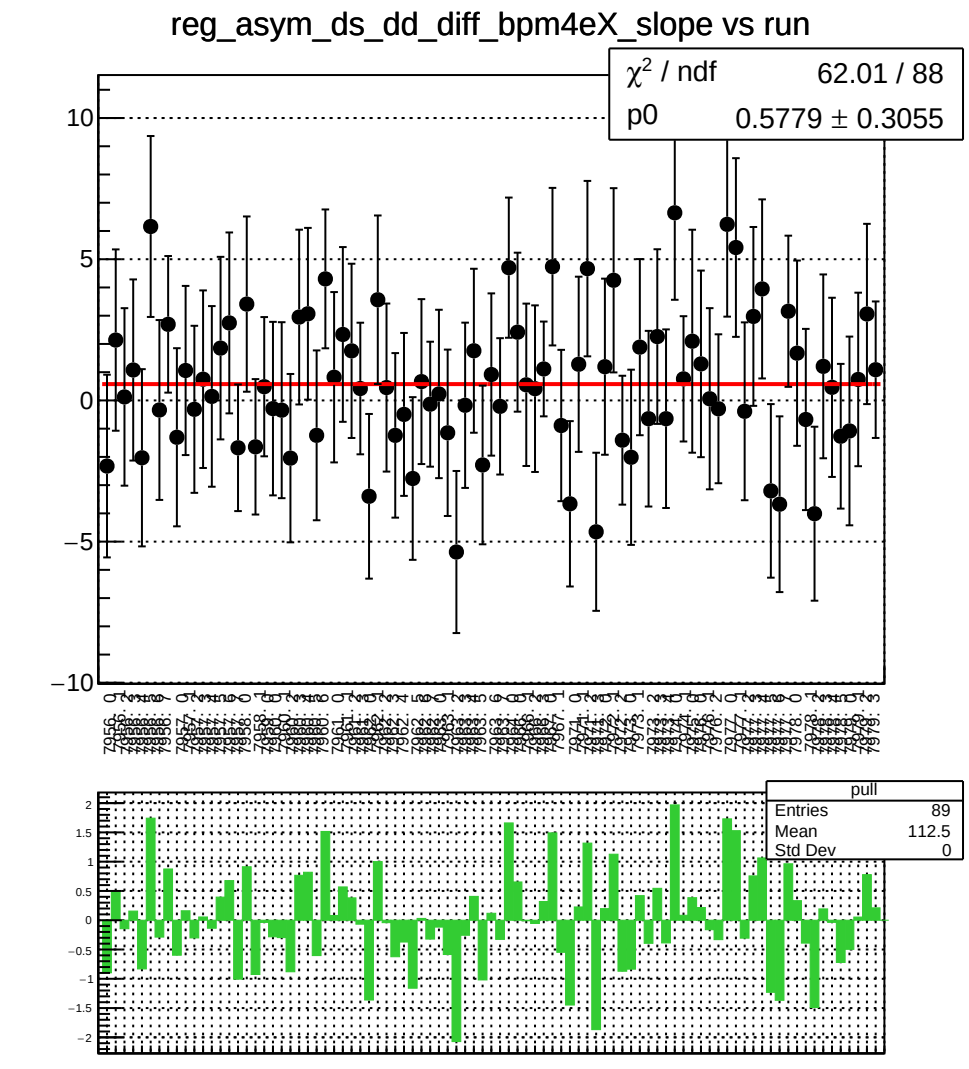

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 115.3 / 88
p0 0.008619 ± 0.01178
pull
Entries 89
Mean 66.45
Std Dev 44.76

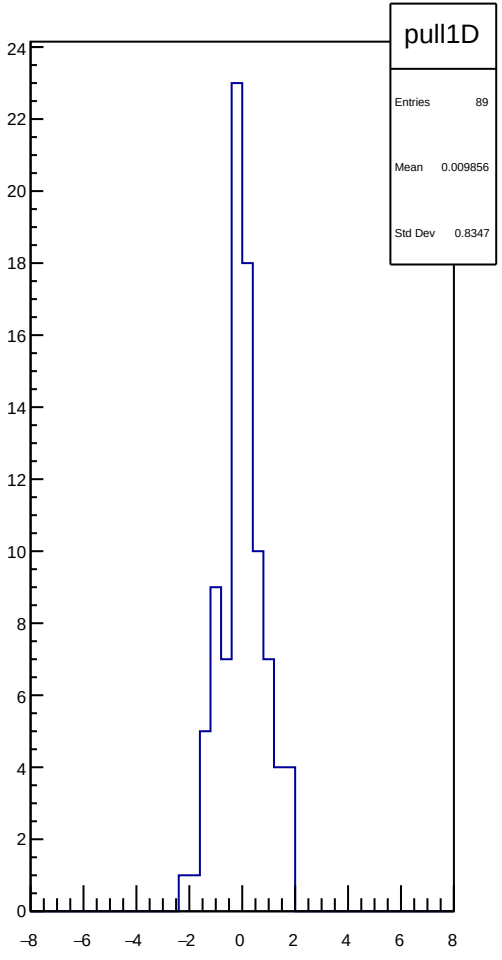

pull1D
Entries 89
Mean −0.01588
Std Dev 1.138

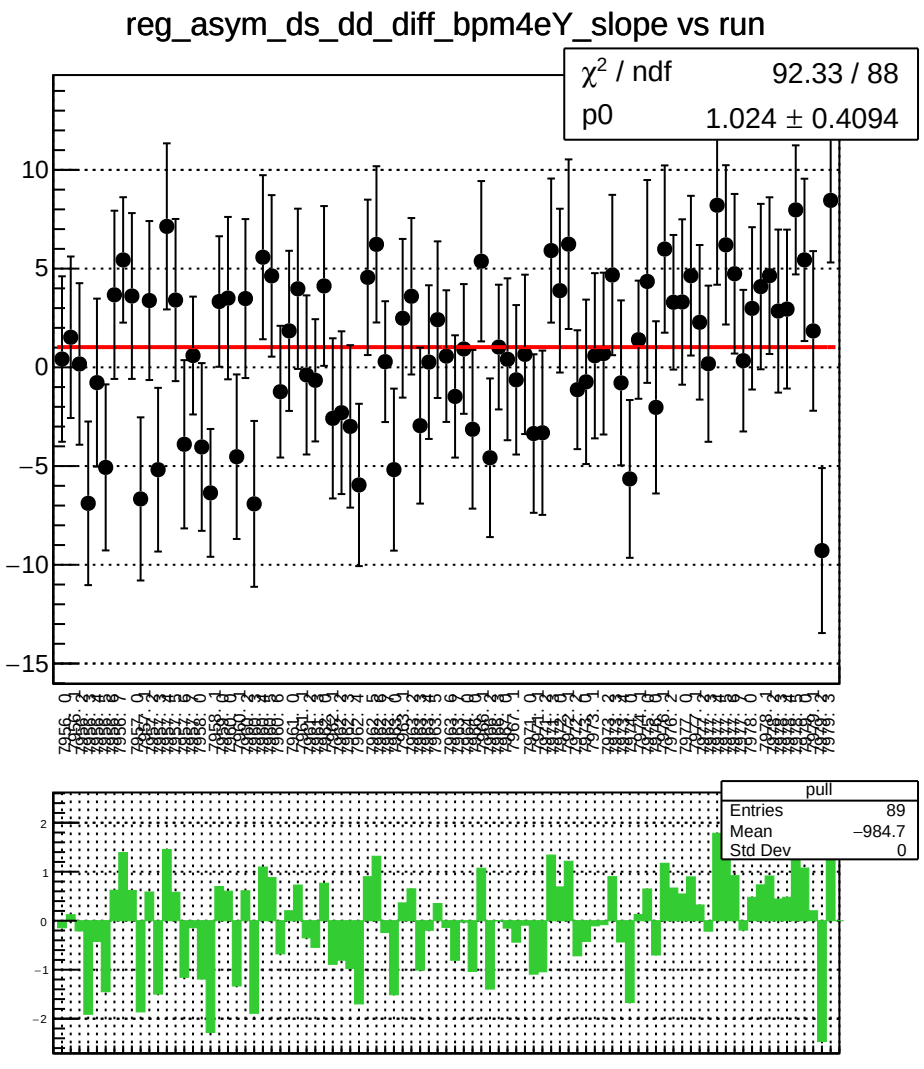

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 62.64 / 88
p0 −0.6426 ± 0.3447
pull
Entries 89
Mean 93.54
Std Dev 0

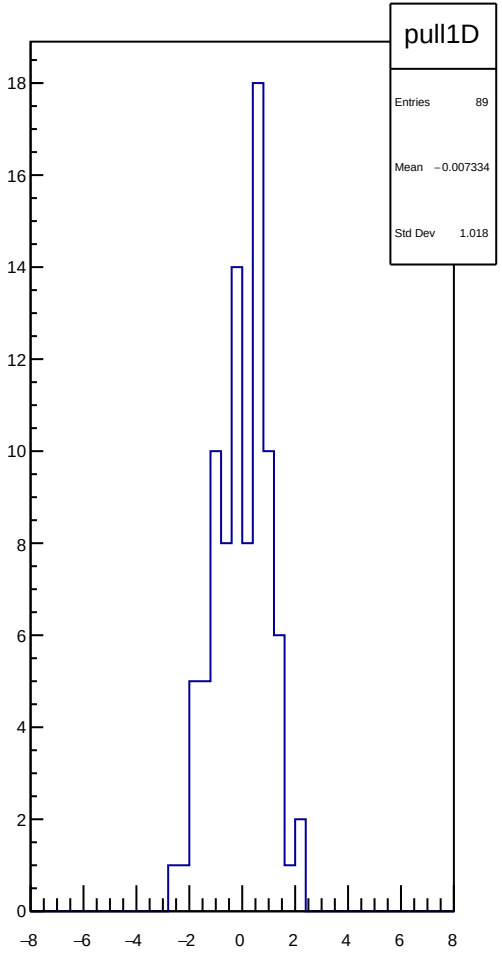

pull1D
Entries 89
Mean −0.007333
Std Dev 0.8389

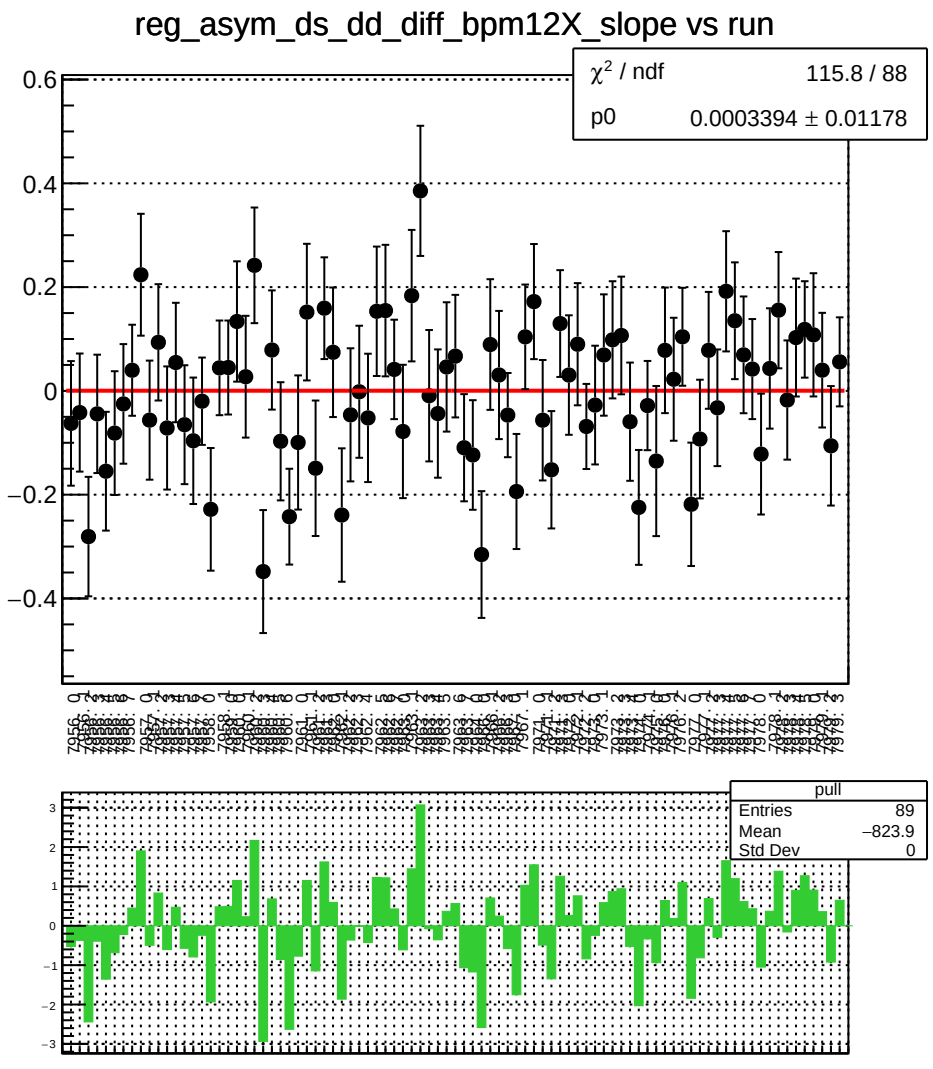

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 92.31 / 88
p0 −0.8324 ± 0.3576
pull
Entries 89
Mean −869.6
Std Dev 0
pull1D
Entries 89
Mean 0.00847
Std Dev 1.018

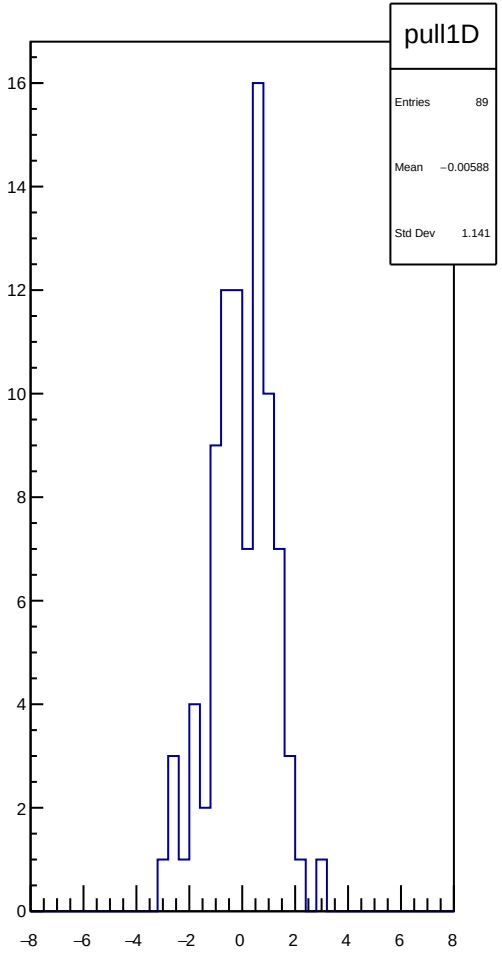

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.01 / 88
p0 0.5779 ± 0.3055
pull
Entries 89
Mean 112.5
Std Dev 0

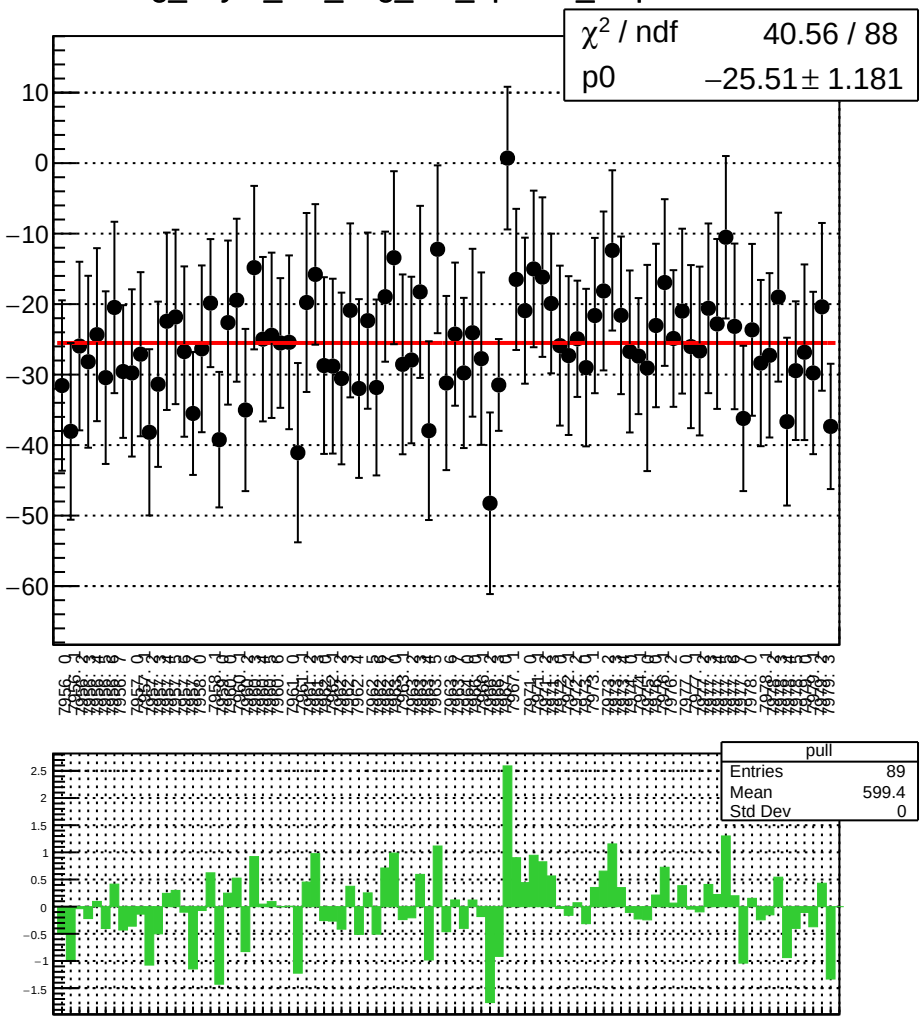

pull1D
Entries 89
Mean 0.009856
Std Dev 0.8347

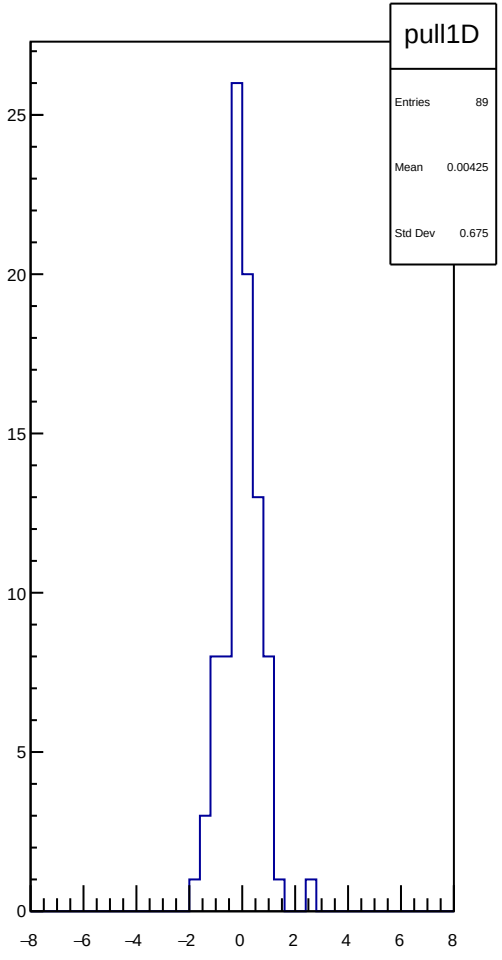

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.33 / 88
p0 1.024 ± 0.4094
pull
Entries 89
Mean −984.7
Std Dev 0

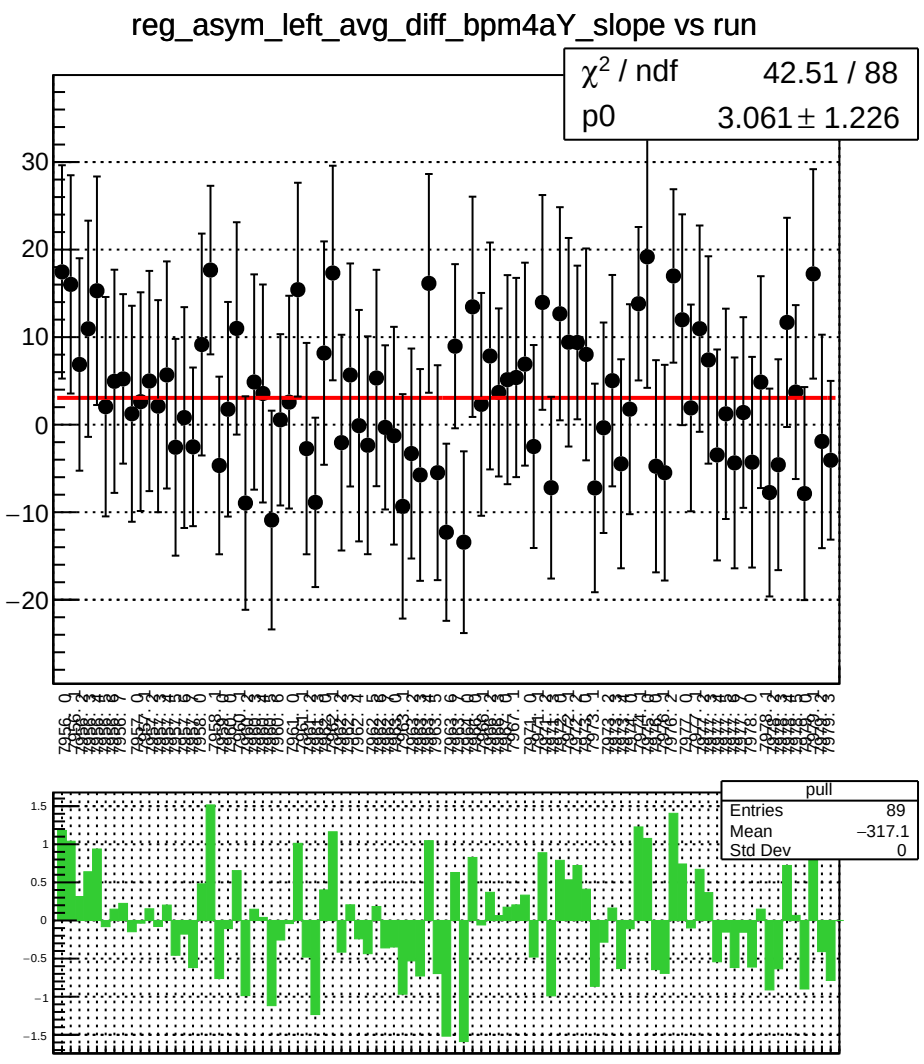

pull1D
Entries 89
Mean −0.007334
Std Dev 1.018

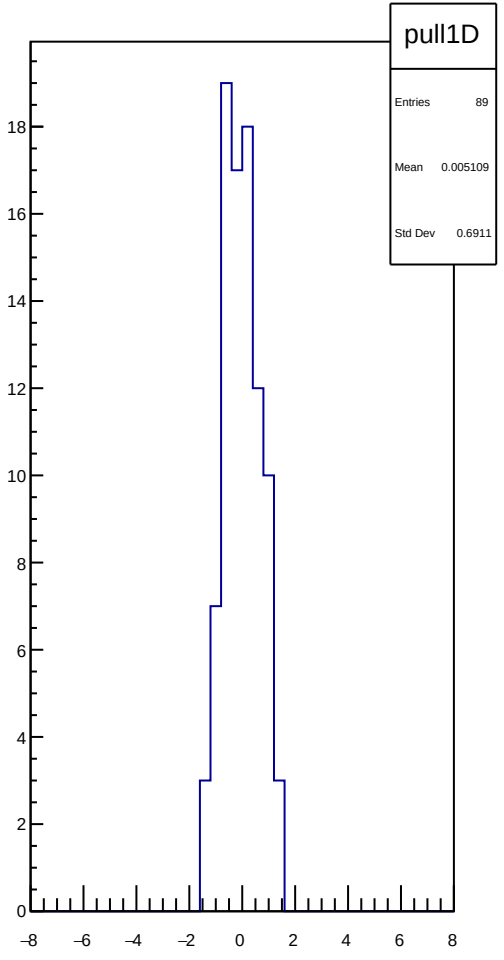

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 115.8 / 88
p0 0.0003394 ± 0.01178
pull
Entries 89
Mean −823.9
Std Dev 0

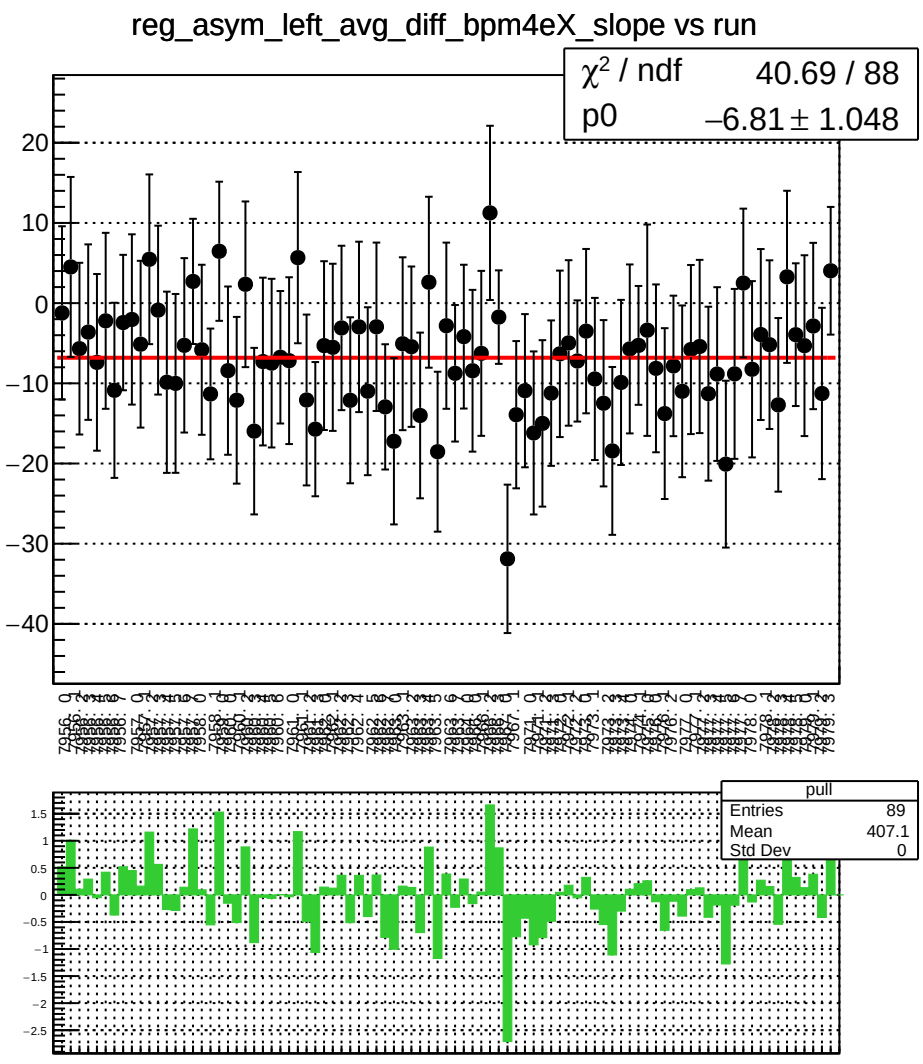

pull1D
Entries 89
Mean −0.00588
Std Dev 1.141

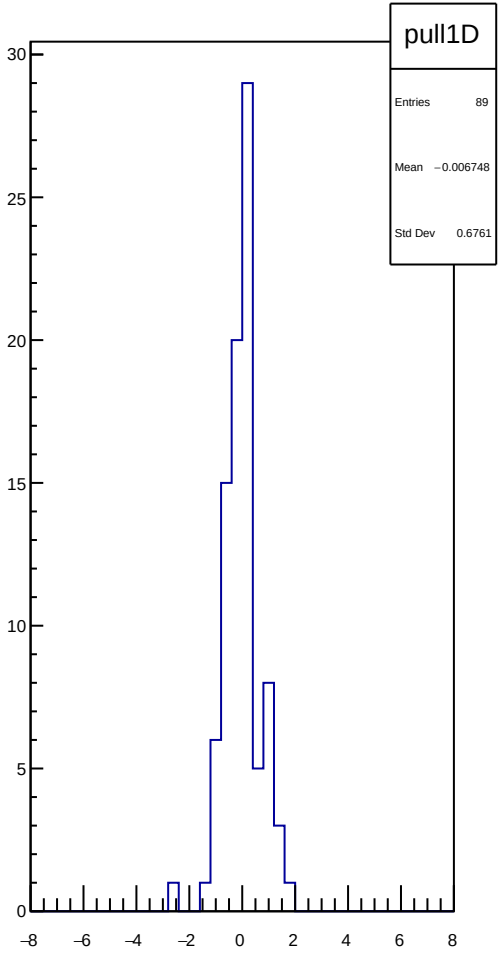

reg_asym_left_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 40.56 / 88
p0 −25.51 ± 1.181
pull
Entries 89
Mean 599.4
Std Dev 0

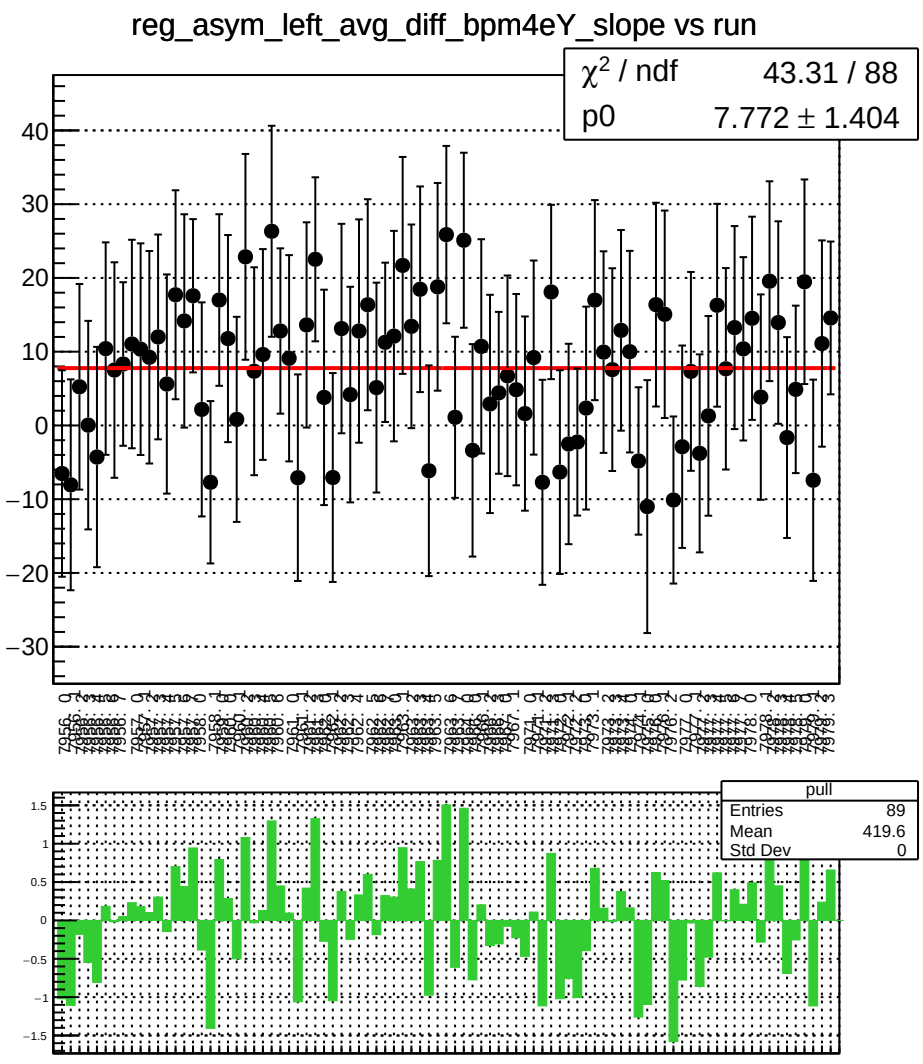

pull1D
Entries 89
Mean 0.00425
Std Dev 0.675

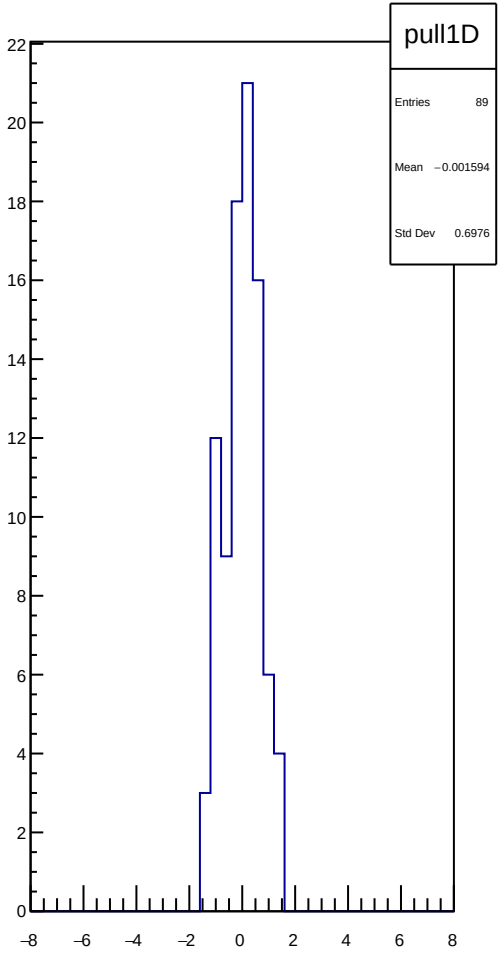

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.51 / 88
p0 3.061 ± 1.226
pull
Entries 89
Mean −317.1
Std Dev 0

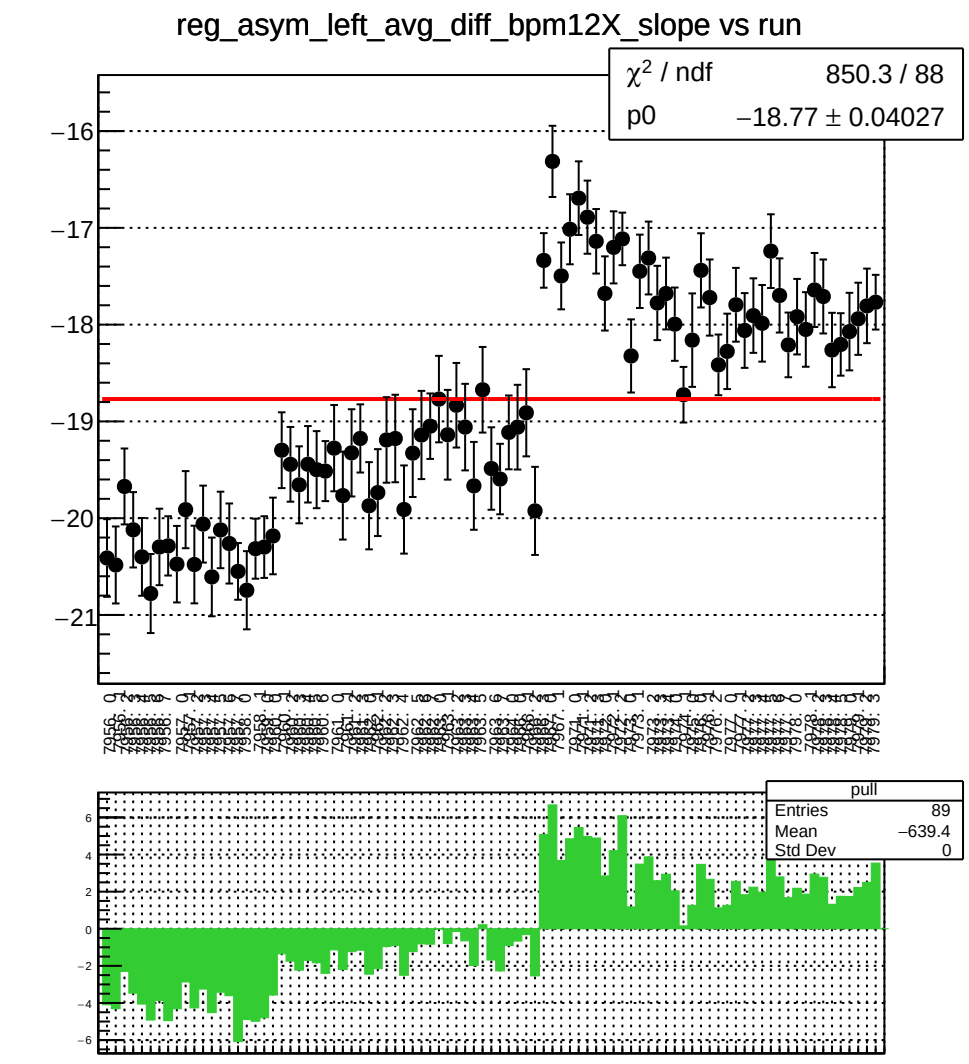

pull1D
Entries 89
Mean 0.005109
Std Dev 0.6911

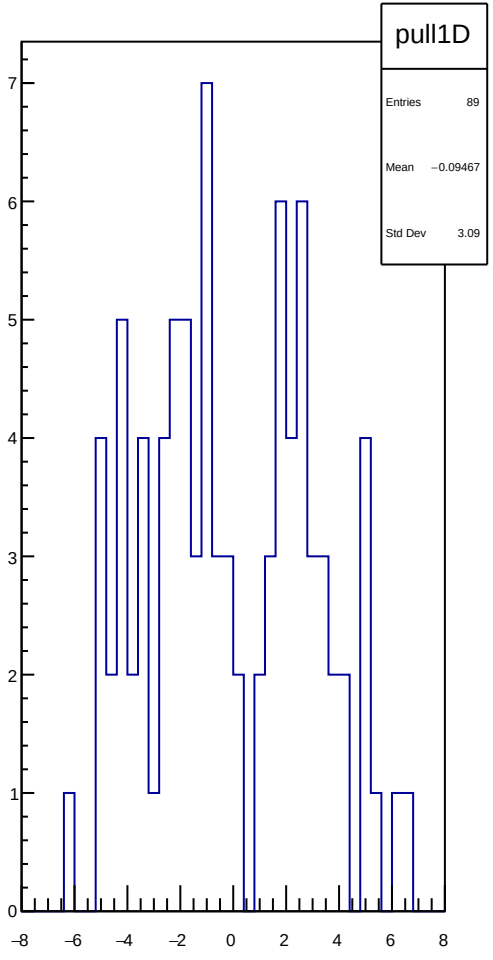

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.69 / 88
p0 −6.81 ± 1.048
pull
Entries 89
Mean 407.1
Std Dev 0

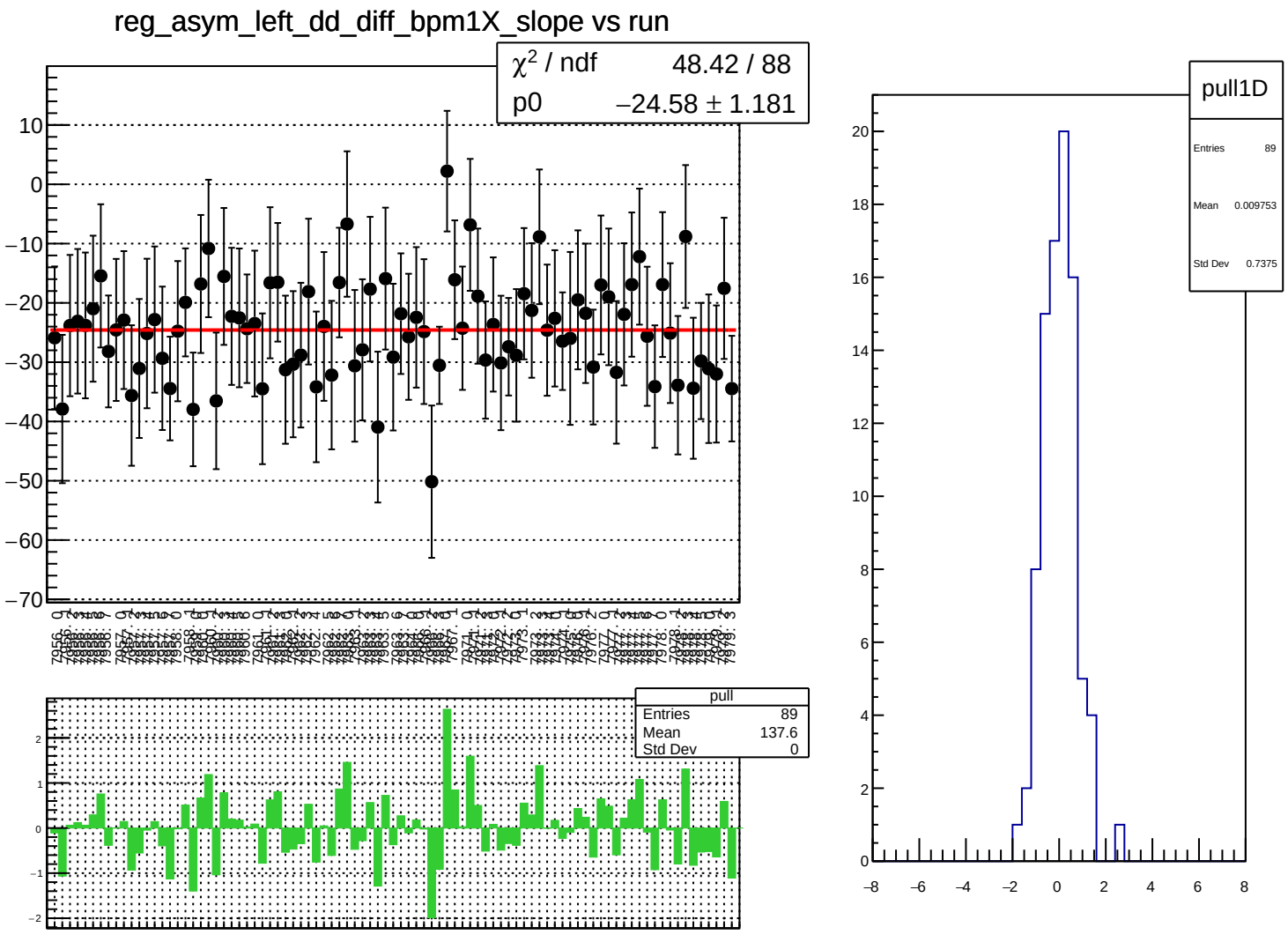

pull1D
Entries 89
Mean −0.006748
Std Dev 0.6761

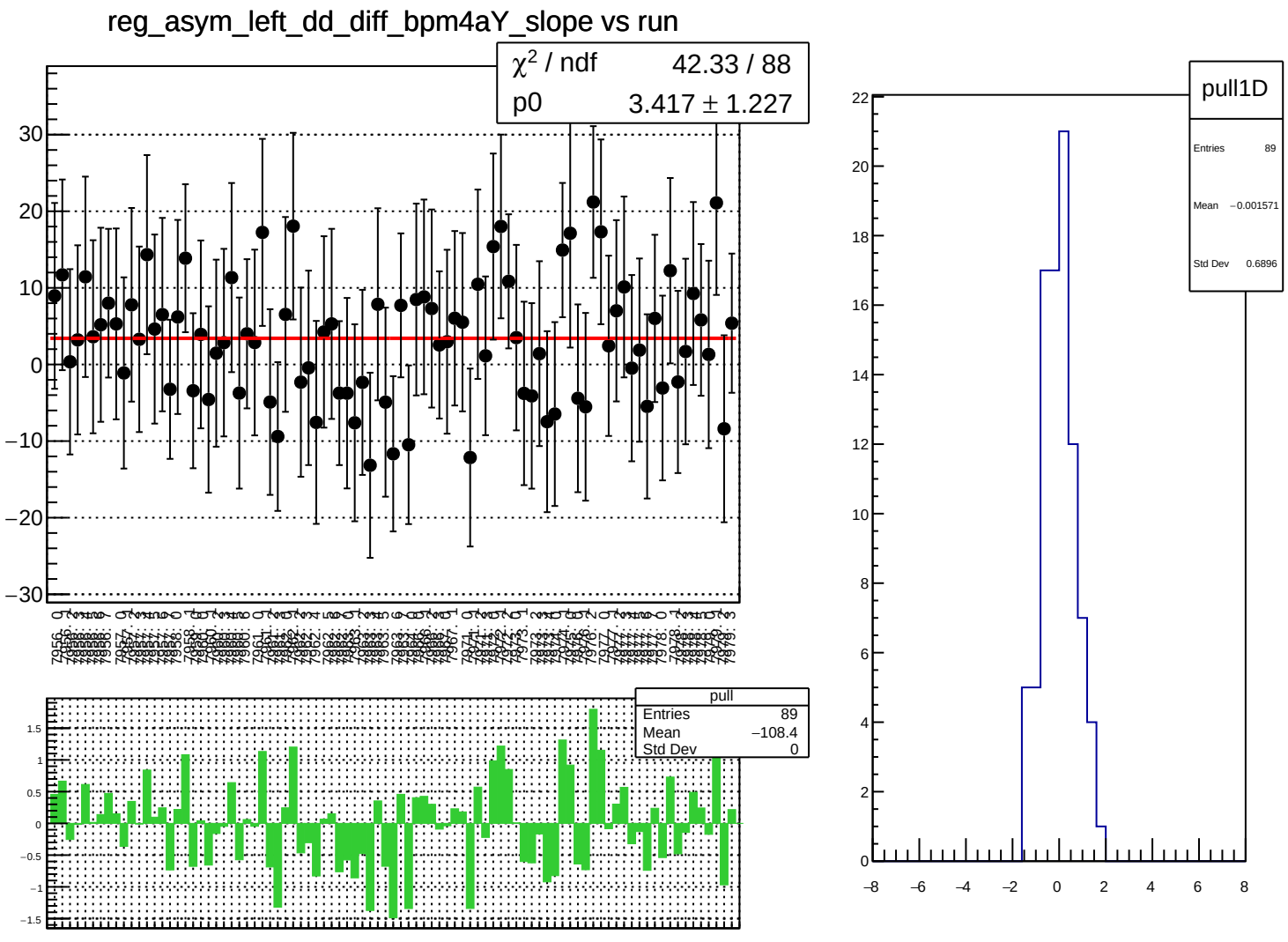

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.31 / 88
p0 7.772 ± 1.404
pull
Entries 89
Mean 419.6
Std Dev 0

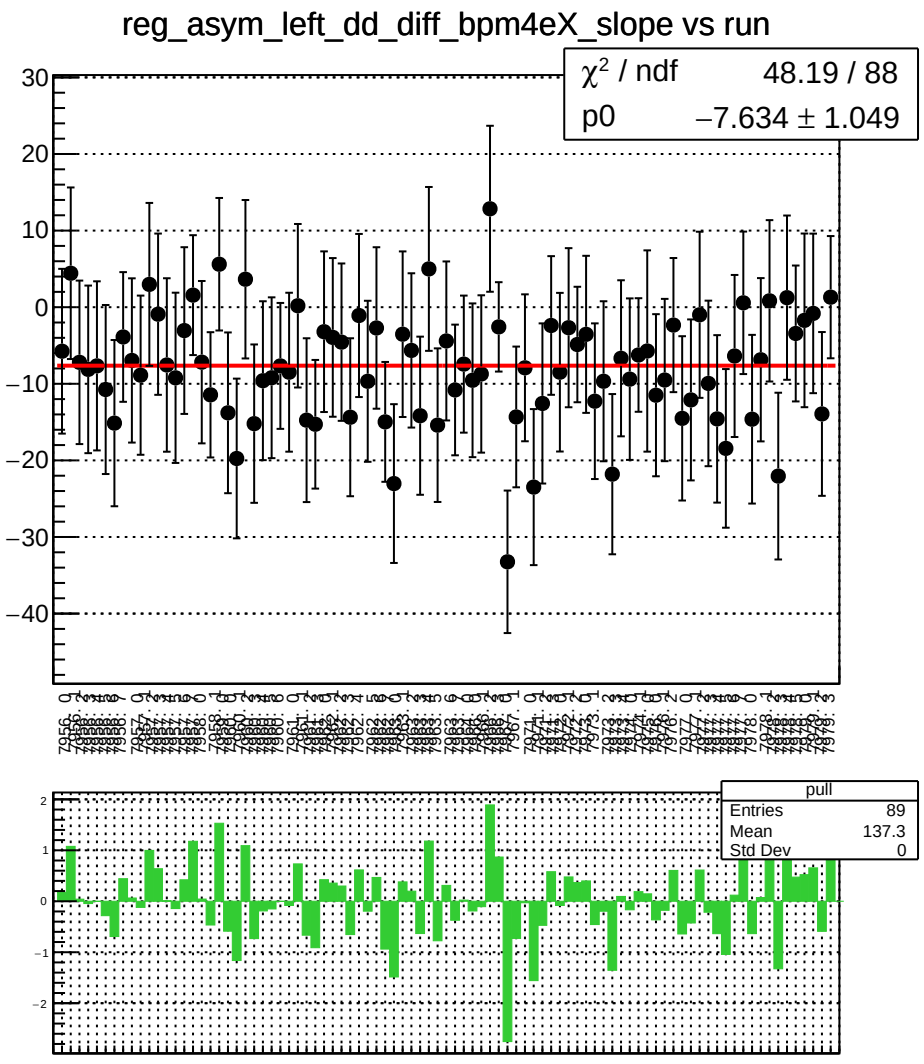

pull1D
Entries 89
Mean −0.001594
Std Dev 0.6976

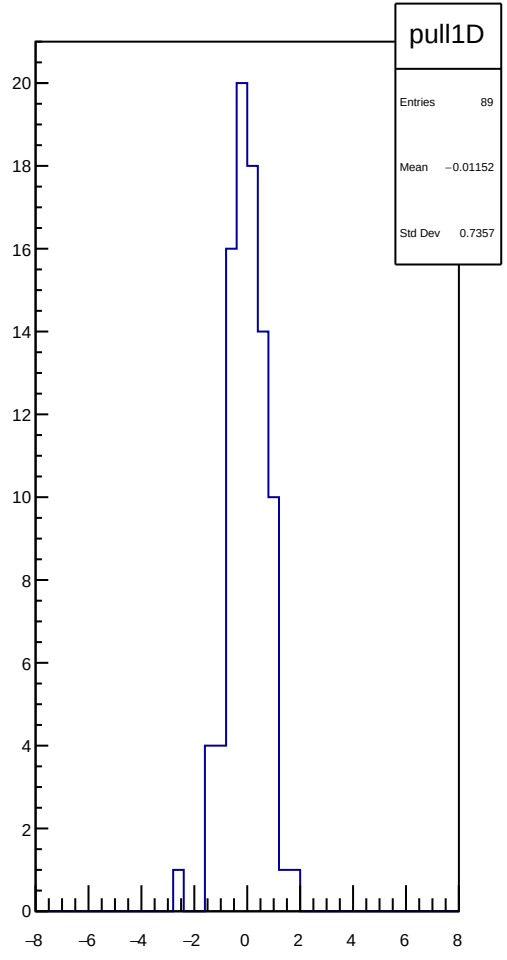

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 850.3 / 88
p0 −18.77 ± 0.04027
pull
Entries 89
Mean −639.4
Std Dev 0

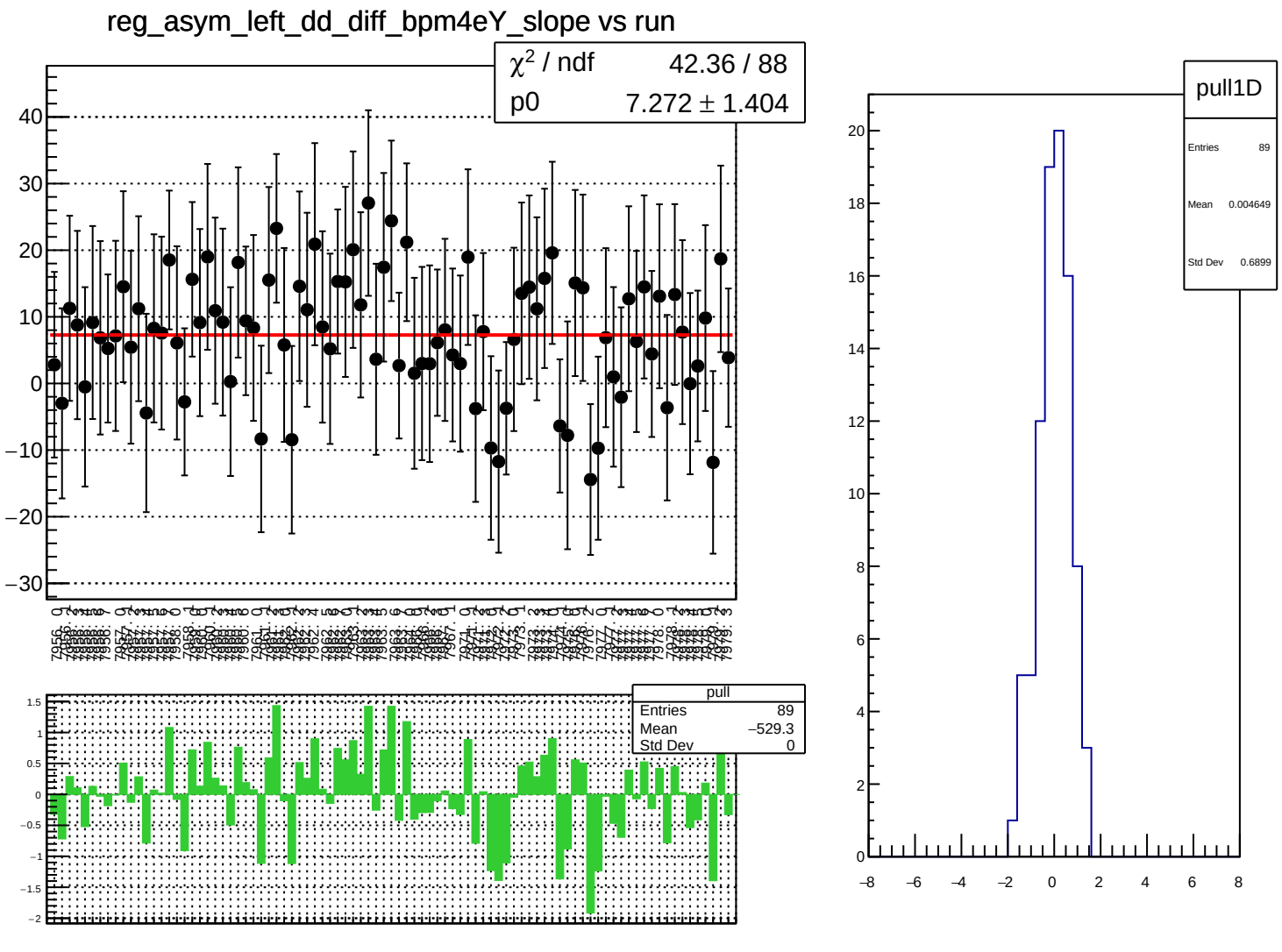

pull1D
Entries 89
Mean −0.09467
Std Dev 3.09

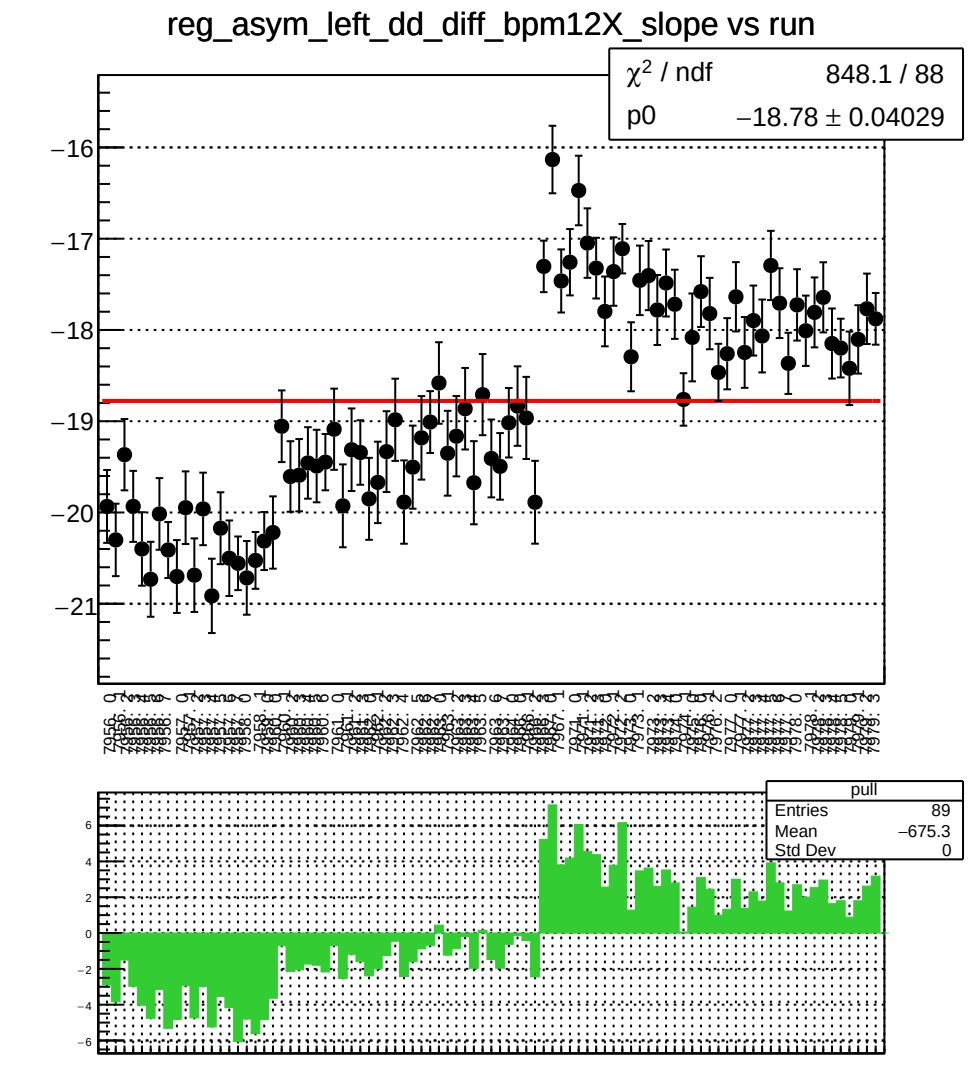

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 48.42 / 88
p0 −24.58 ± 1.181
pull
Entries 89
Mean 137.6
Std Dev 0
pull1D
Entries 89
Mean 0.009753
Std Dev 0.7375

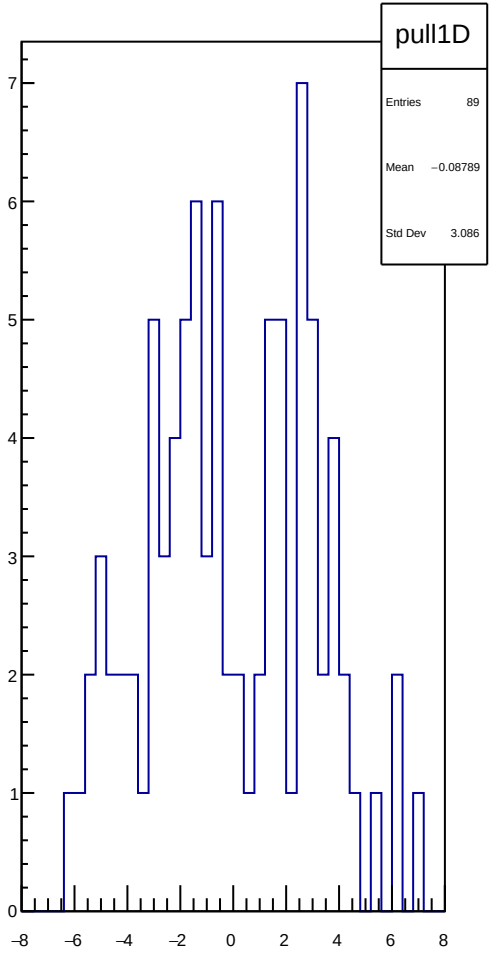

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.33 / 88
p0 3.417 ± 1.227
pull
Entries 89
Mean −108.4
Std Dev 0
pull1D
Entries 89
Mean −0.001571
Std Dev 0.6896

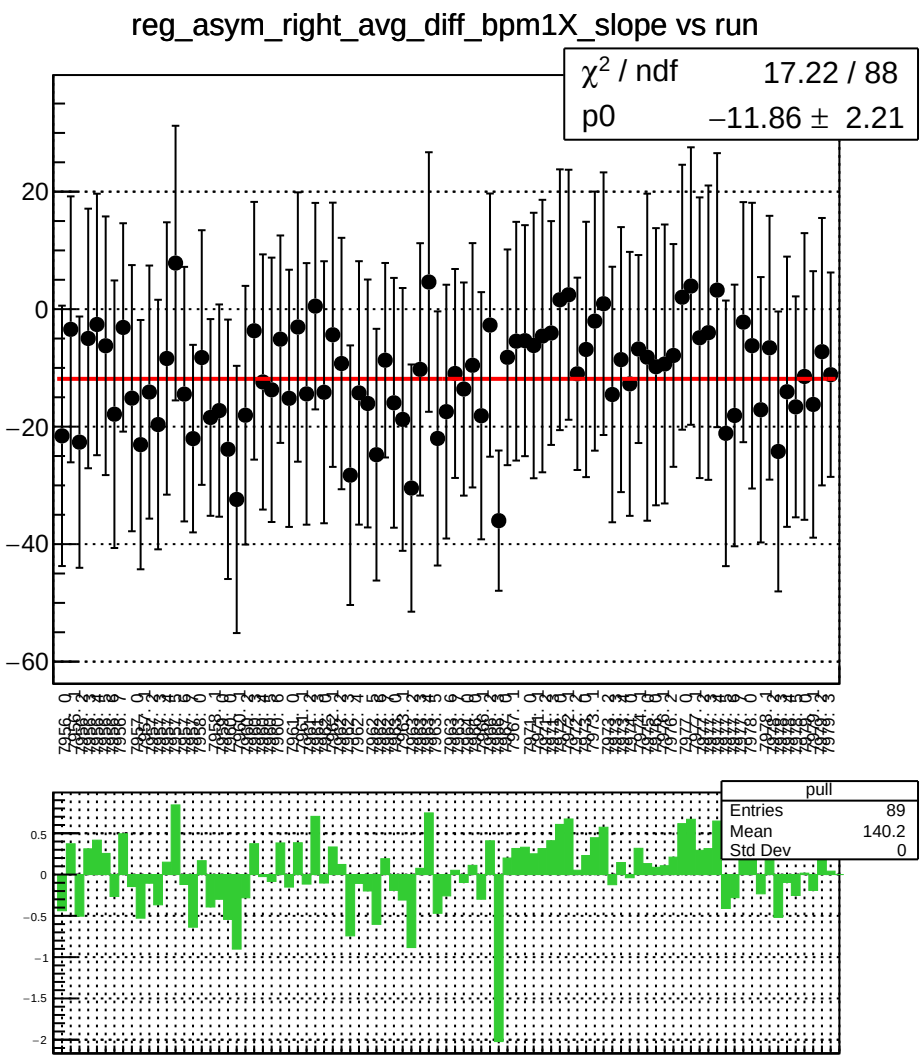

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.19 / 88
p0 −7.634 ± 1.049
pull
Entries 89
Mean 137.3
Std Dev 0

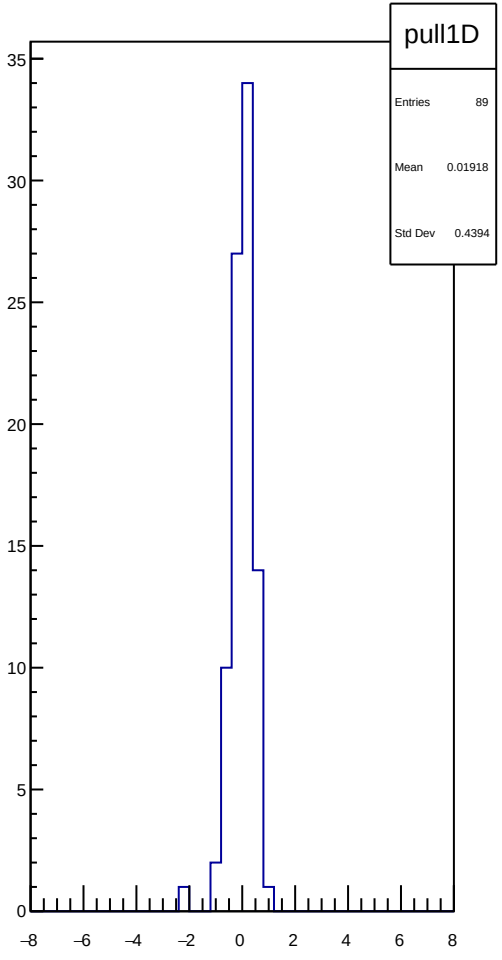

pull1D
Entries 89
Mean −0.01152
Std Dev 0.7357

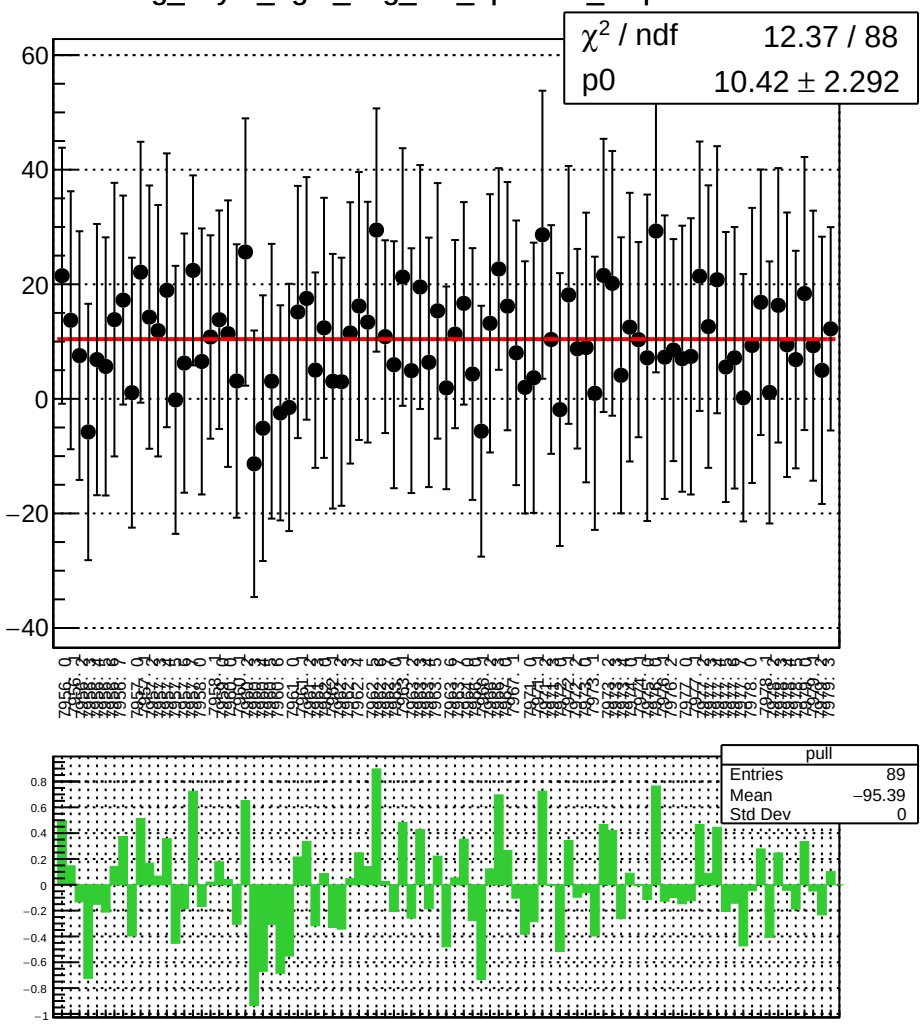

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.36 / 88
p0 7.272 ± 1.404
pull
Entries 89
Mean −529.3
Std Dev 0
pull1D
Entries 89
Mean 0.004649
Std Dev 0.6899

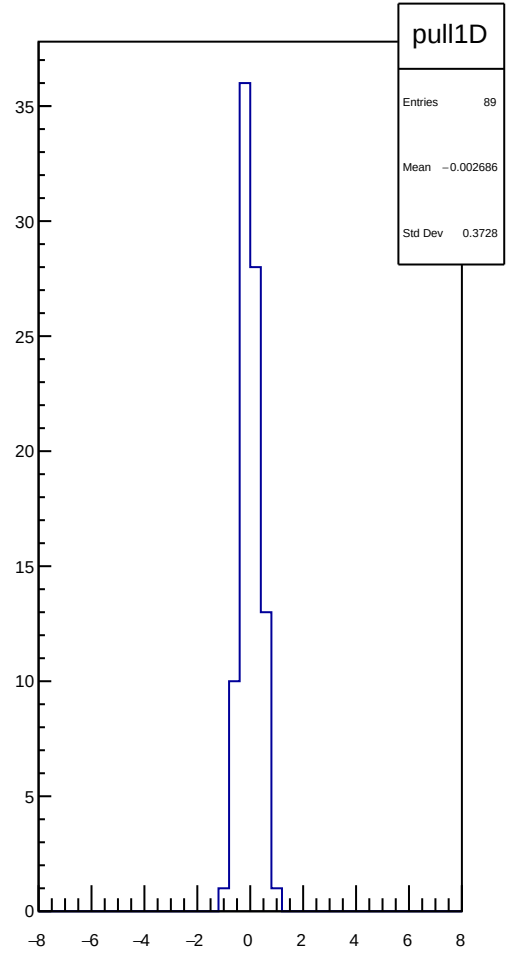

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 848.1 / 88
p0 −18.78 ± 0.04029
pull
Entries 89
Mean −675.3
Std Dev 0

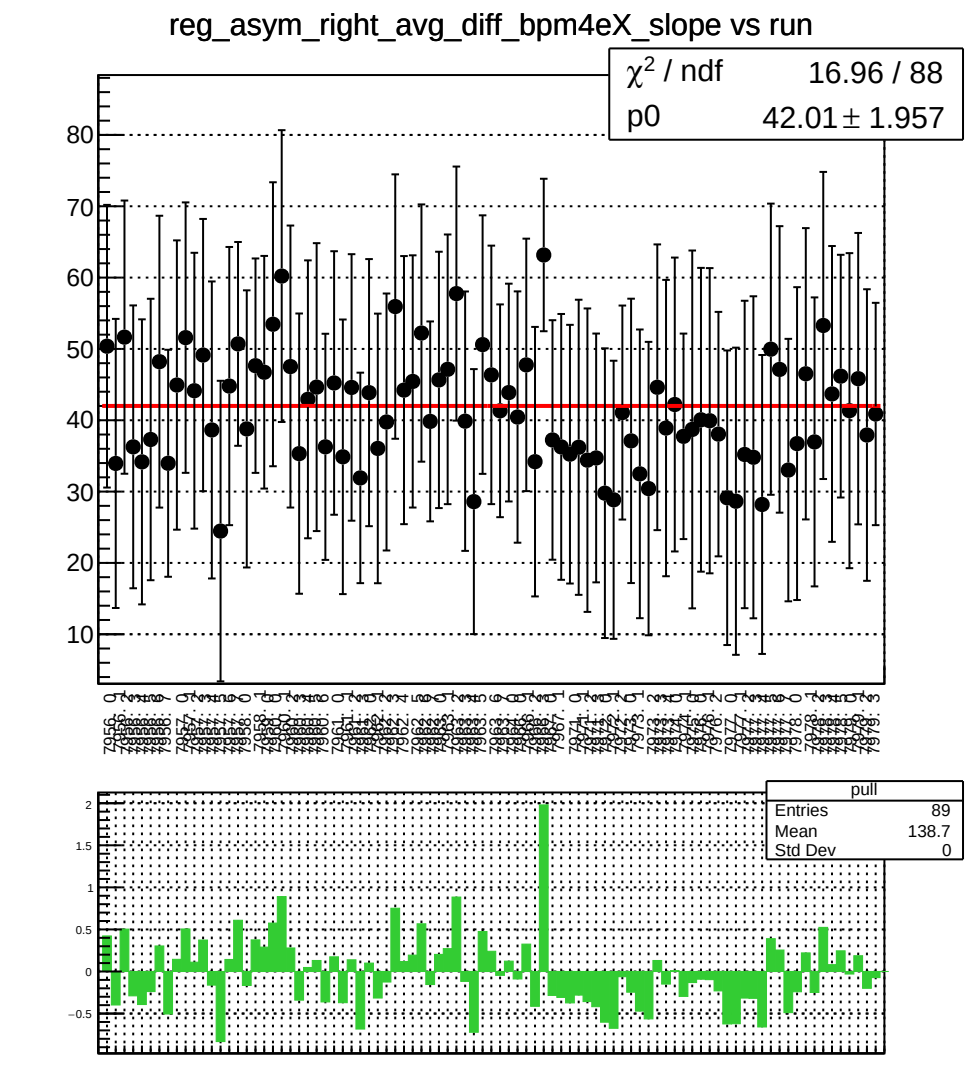

pull1D
Entries 89
Mean −0.08789
Std Dev 3.086

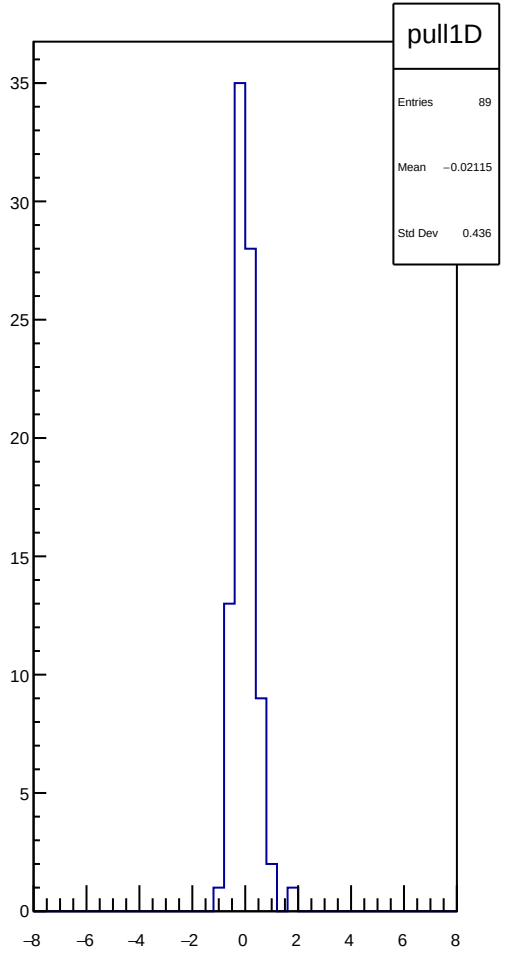

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 17.22 / 88
p0 −11.86 ± 2.21
20
0
−20
−40
−60
pull
Entries 89
Mean 140.2
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2

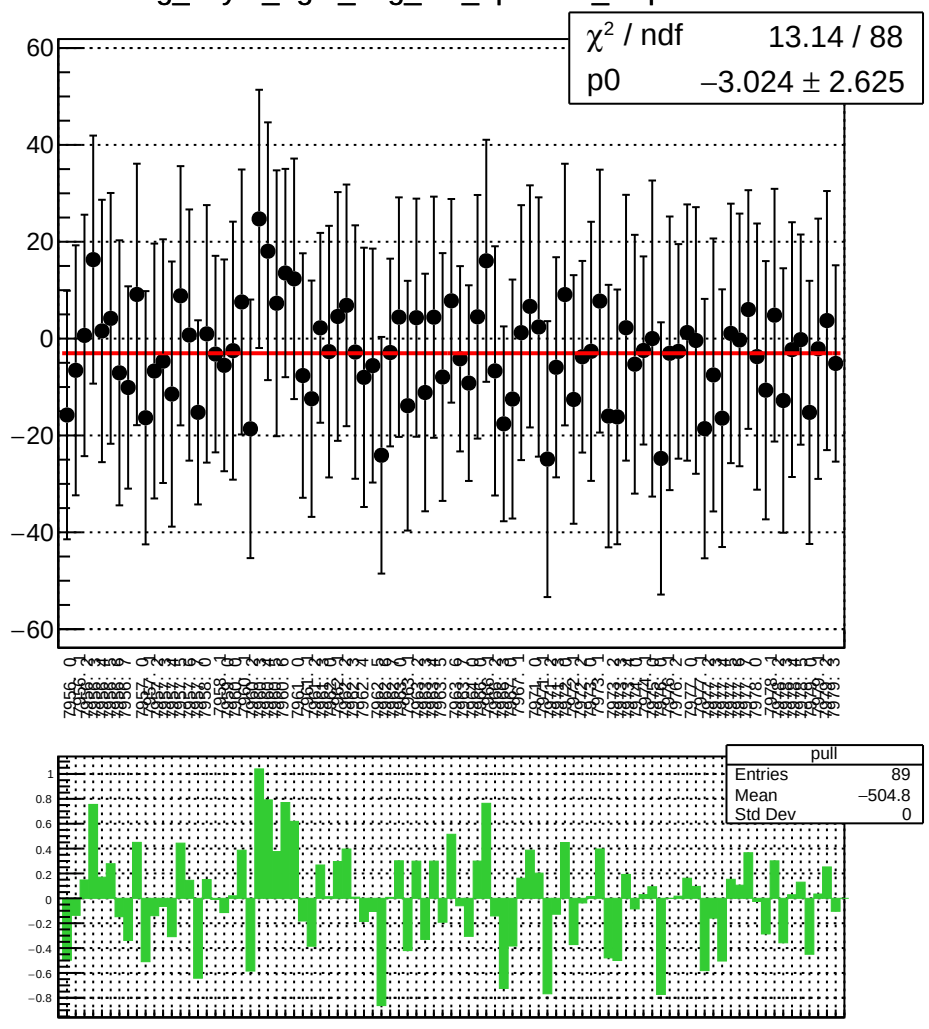

pull1D
Entries 89
Mean 0.01918
Std Dev 0.4394
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

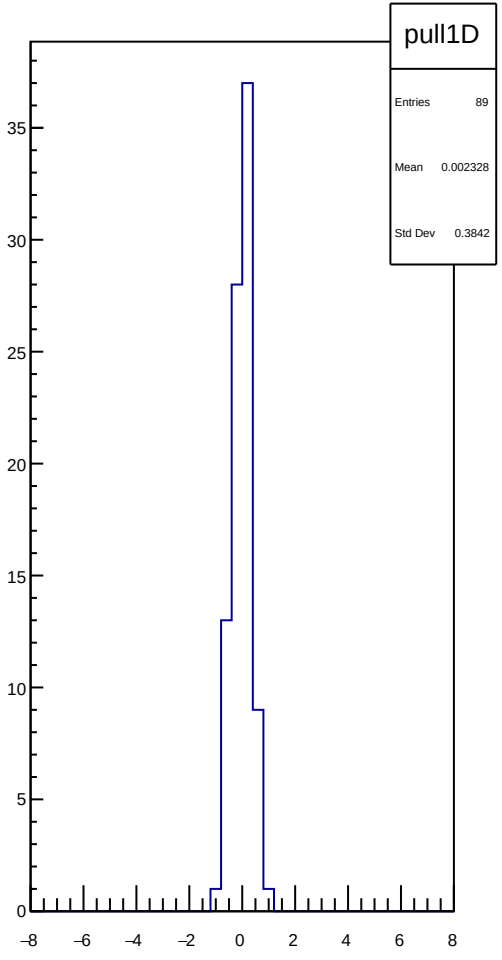

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.37 / 88
p0 10.42 ± 2.292
pull
Entries 89
Mean −95.39
Std Dev 0

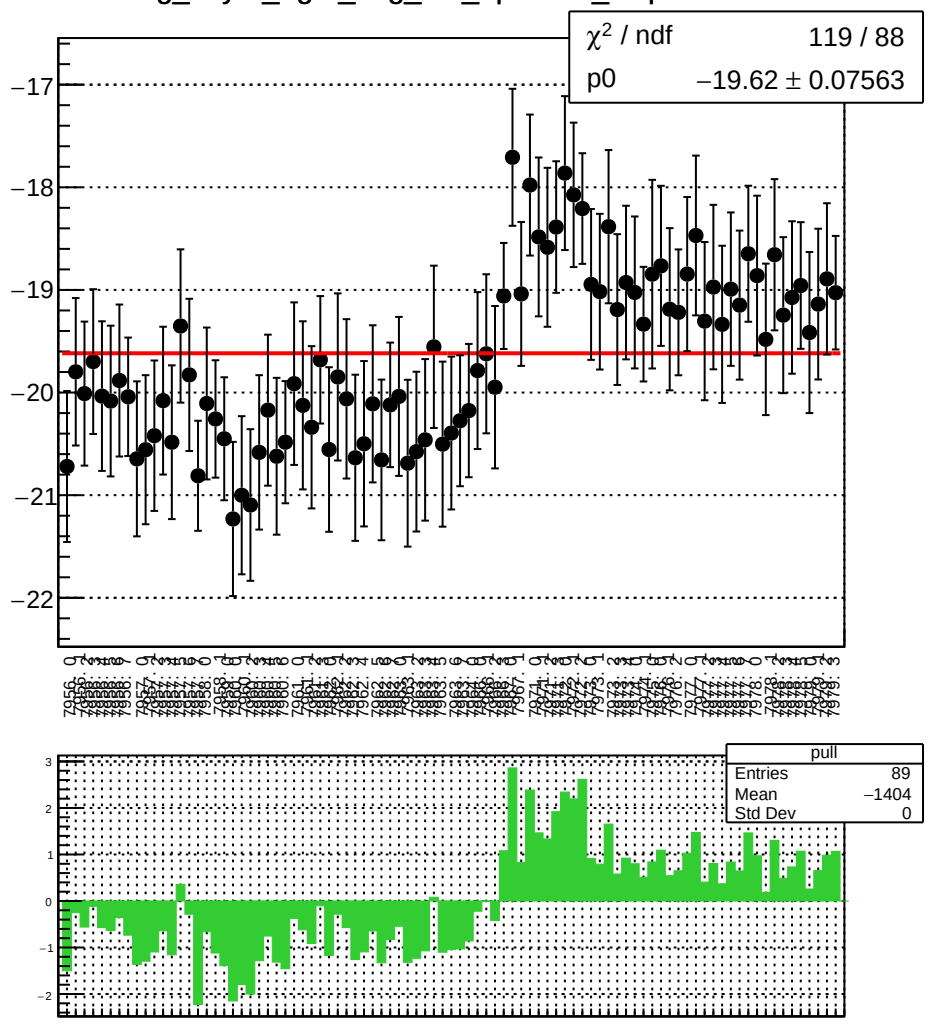

pull1D
Entries 89
Mean −0.002686
Std Dev 0.3728

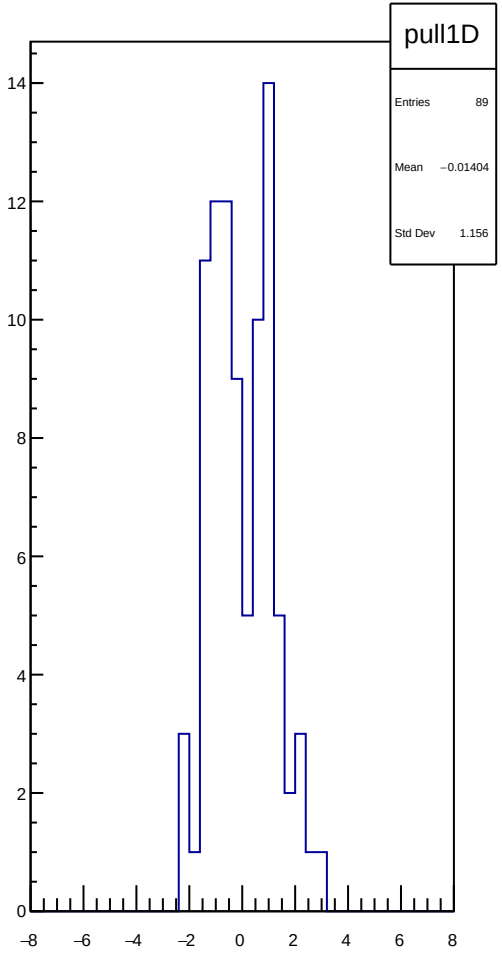

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.96 / 88
p0 42.01 ± 1.957
pull
Entries 89
Mean 138.7
Std Dev 0

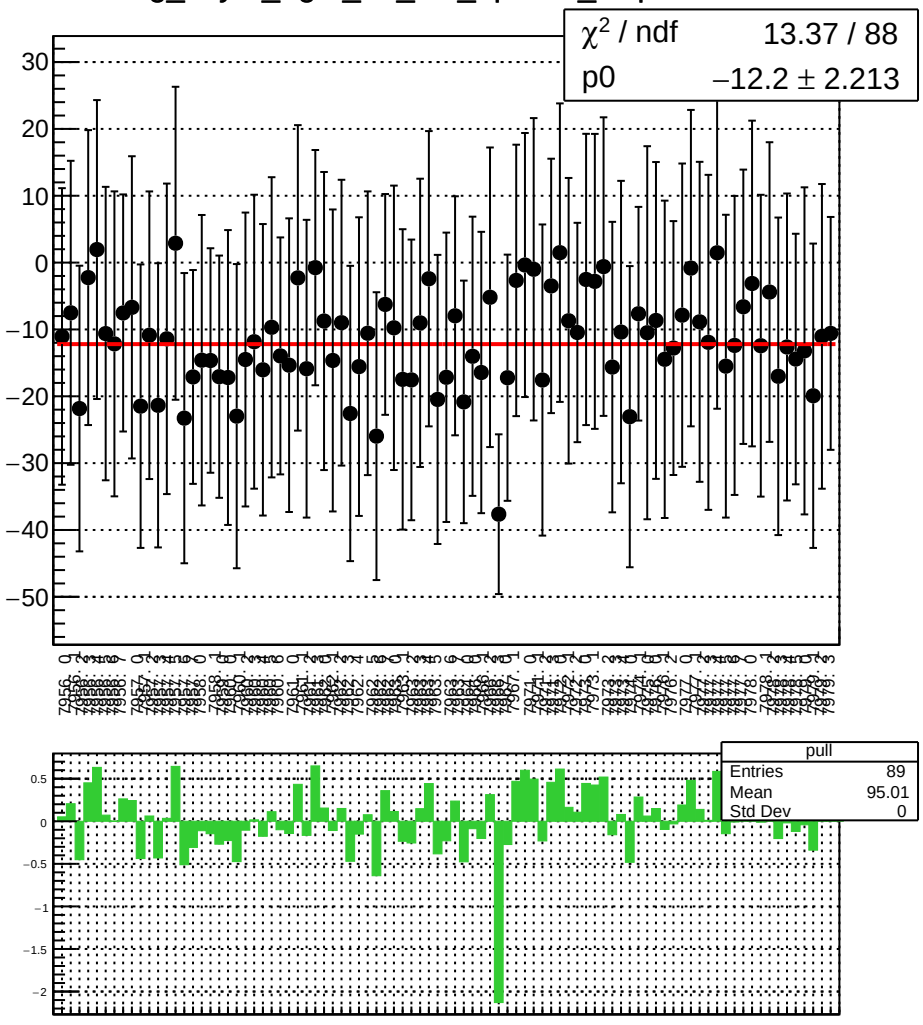

pull1D
Entries 89
Mean −0.02115
Std Dev 0.436

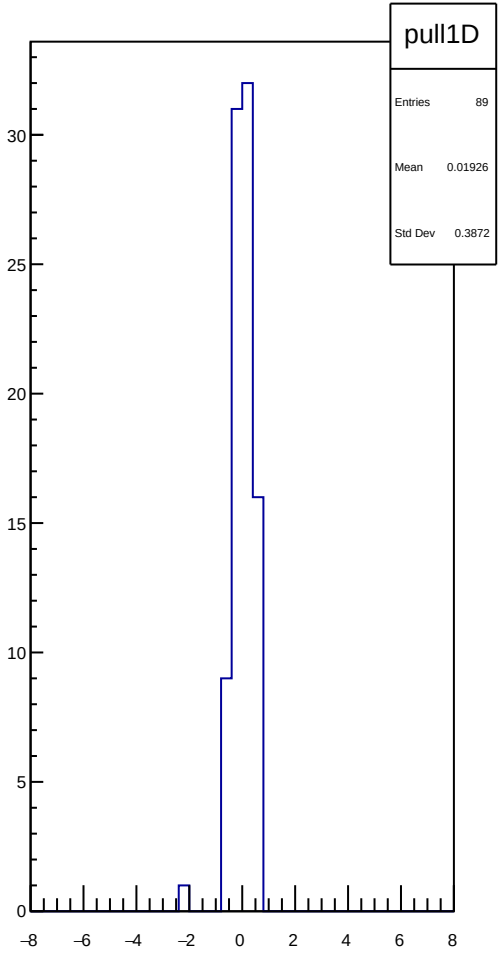

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.14 / 88
p0 −3.024 ± 2.625
pull
Entries 89
Mean −504.8
Std Dev 0

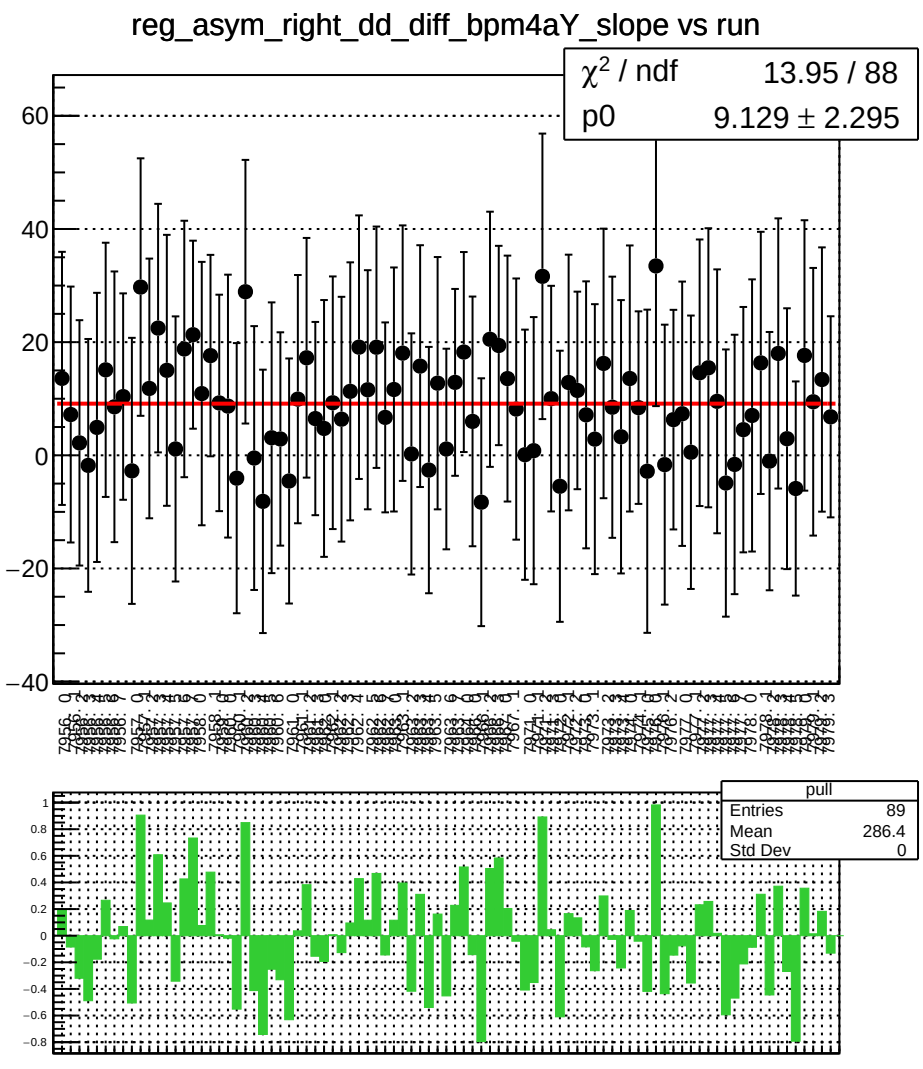

pull1D
Entries 89
Mean 0.002328
Std Dev 0.3842

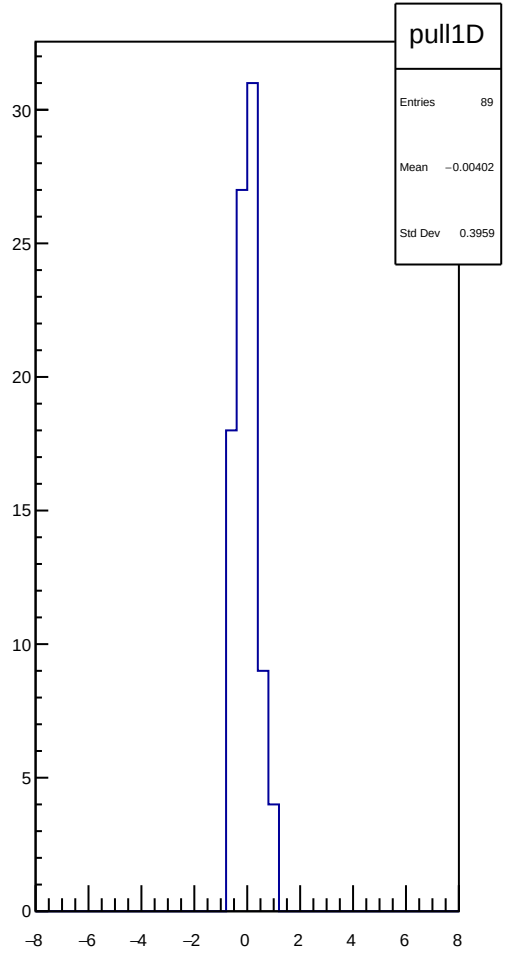

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 119 / 88
p0 −19.62 ± 0.07563
pull
Entries 89
Mean −1404
Std Dev 0

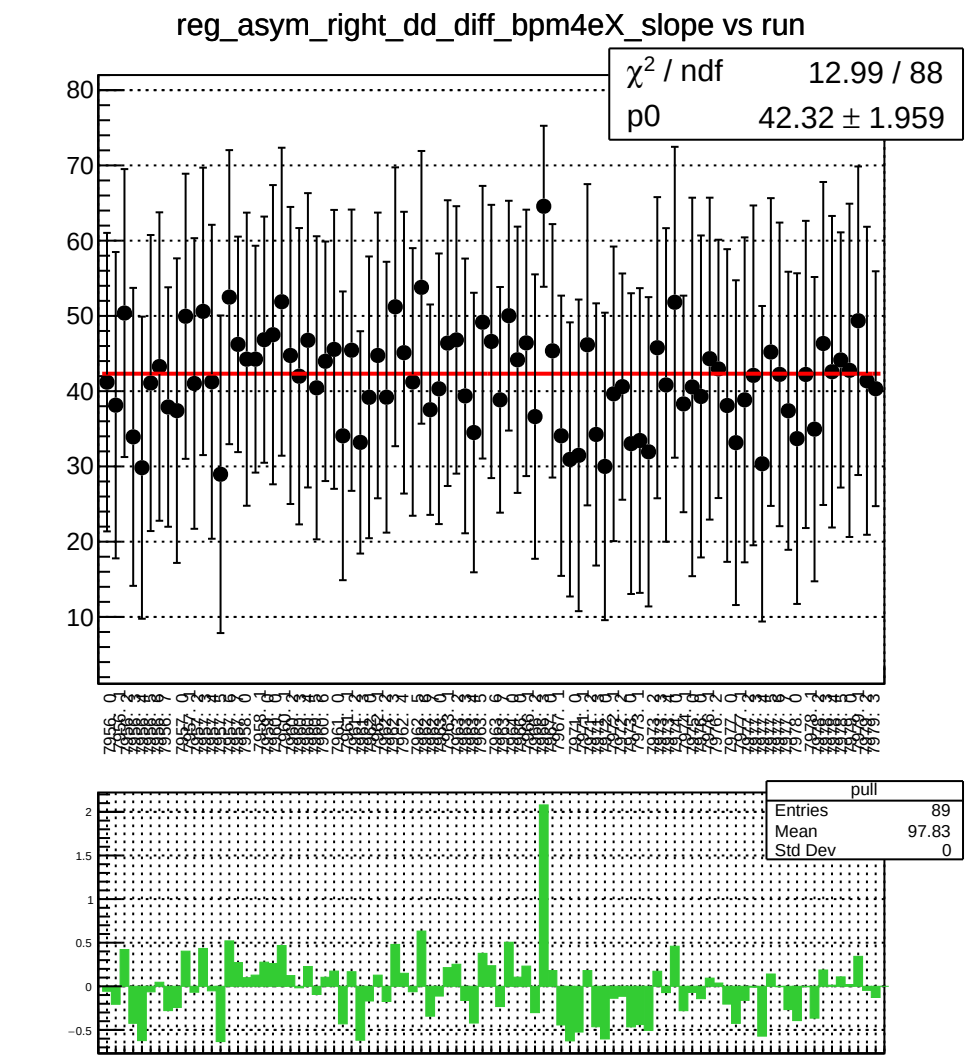

pull1D
Entries 89
Mean −0.01404
Std Dev 1.156

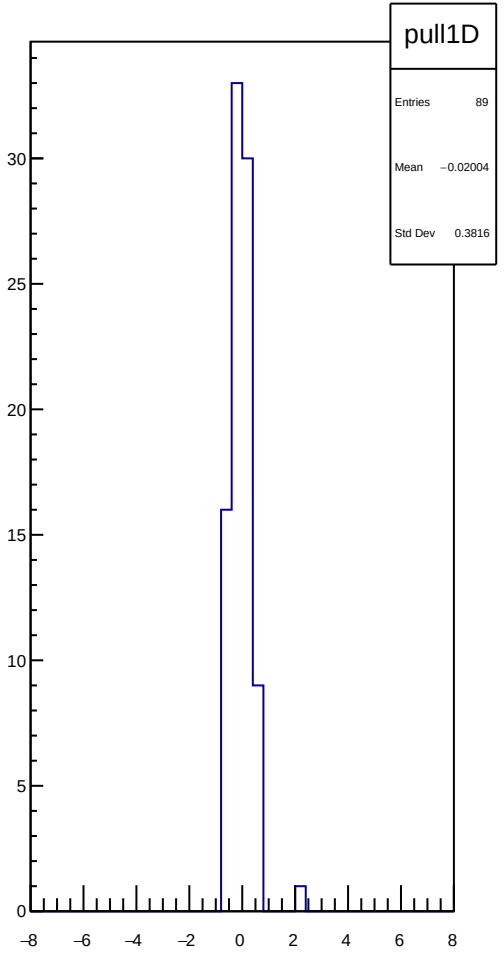

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 13.37 / 88
p0 −12.2 ± 2.213
pull
Entries 89
Mean 95.01
Std Dev 0

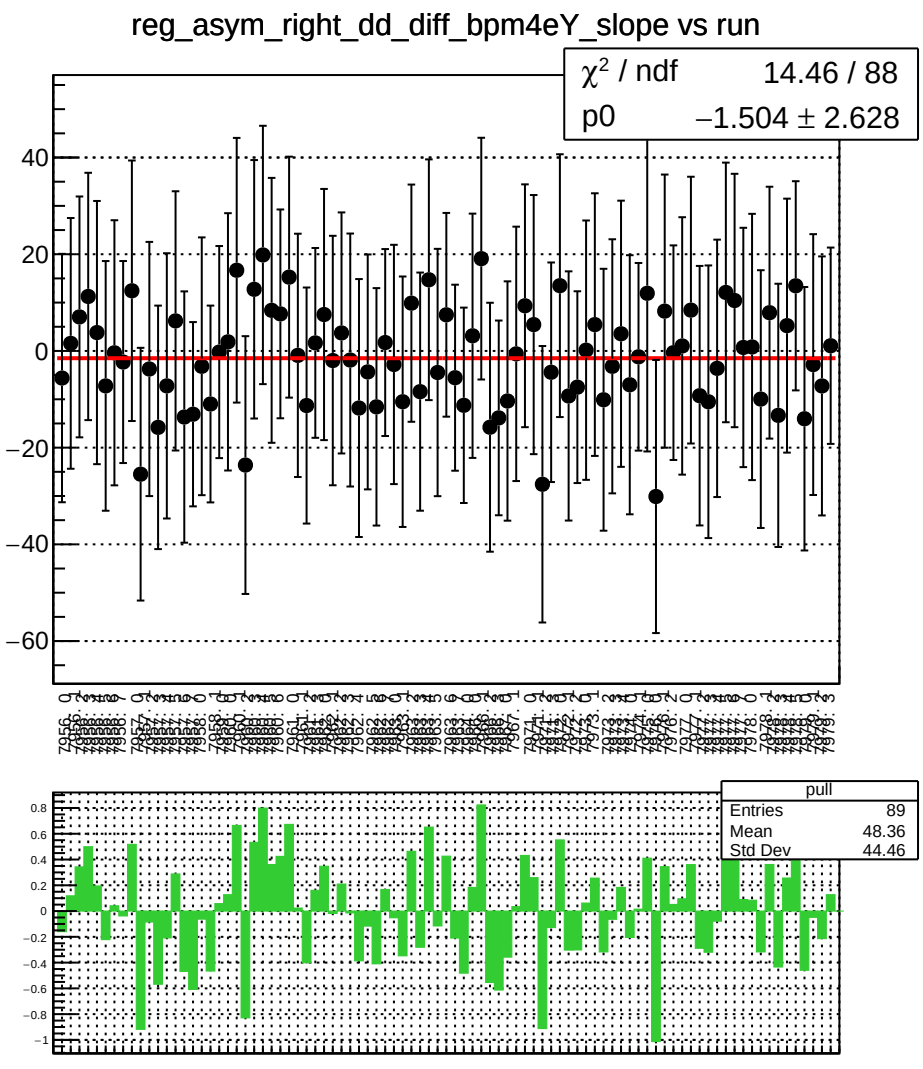

pull1D
Entries 89
Mean 0.01926
Std Dev 0.3872

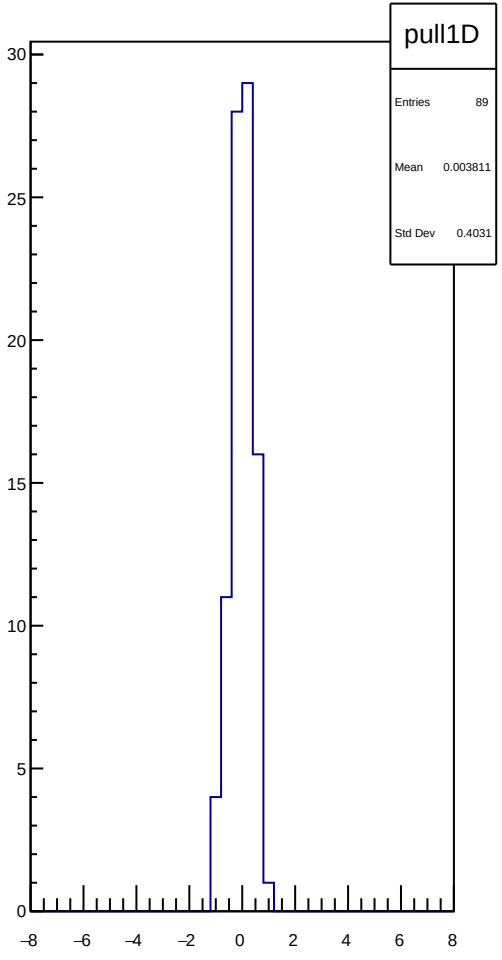

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.95 / 88
p0 9.129 ± 2.295
pull
Entries 89
Mean 286.4
Std Dev 0

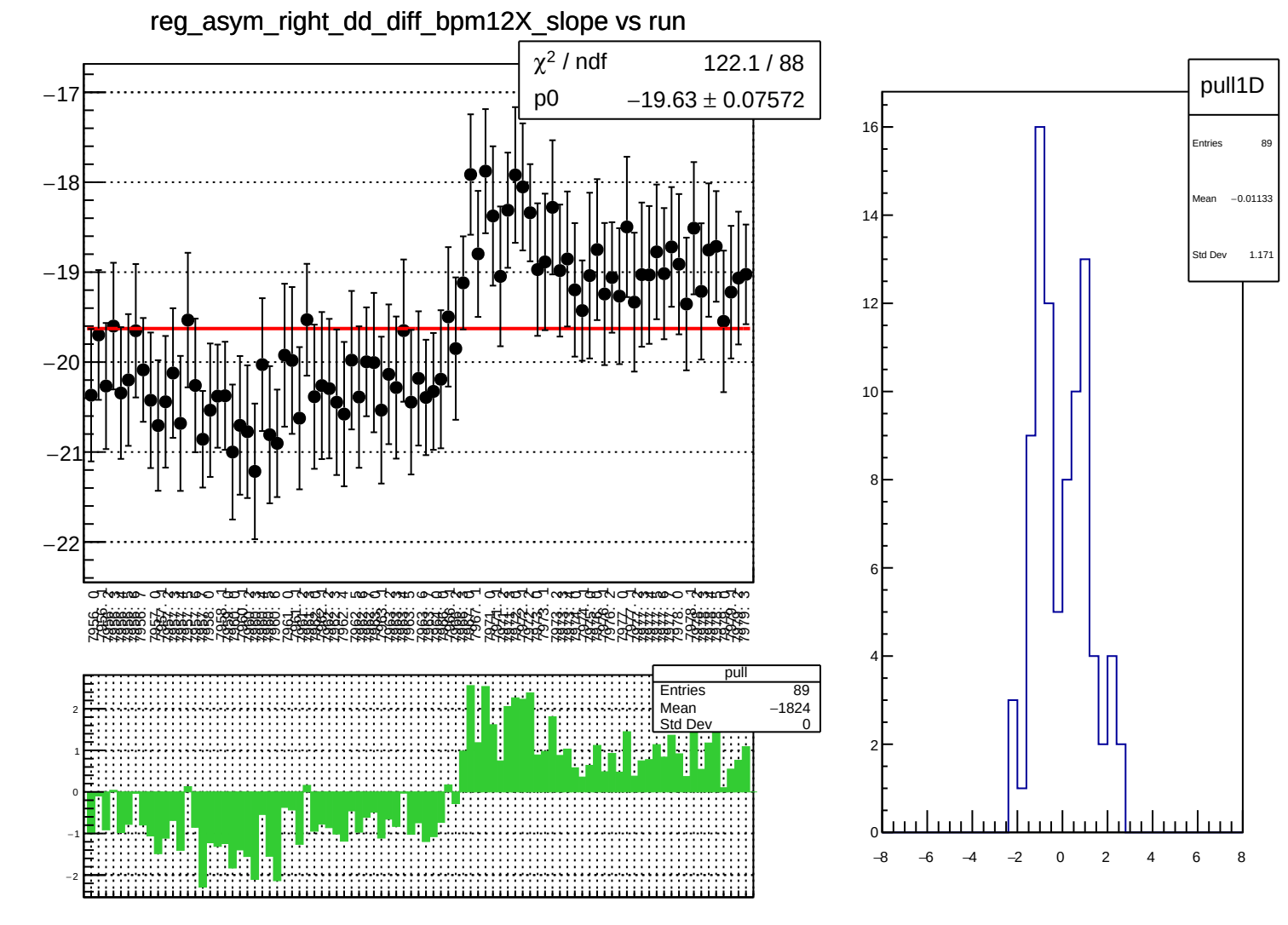

pull1D
Entries 89
Mean −0.00402
Std Dev 0.3959

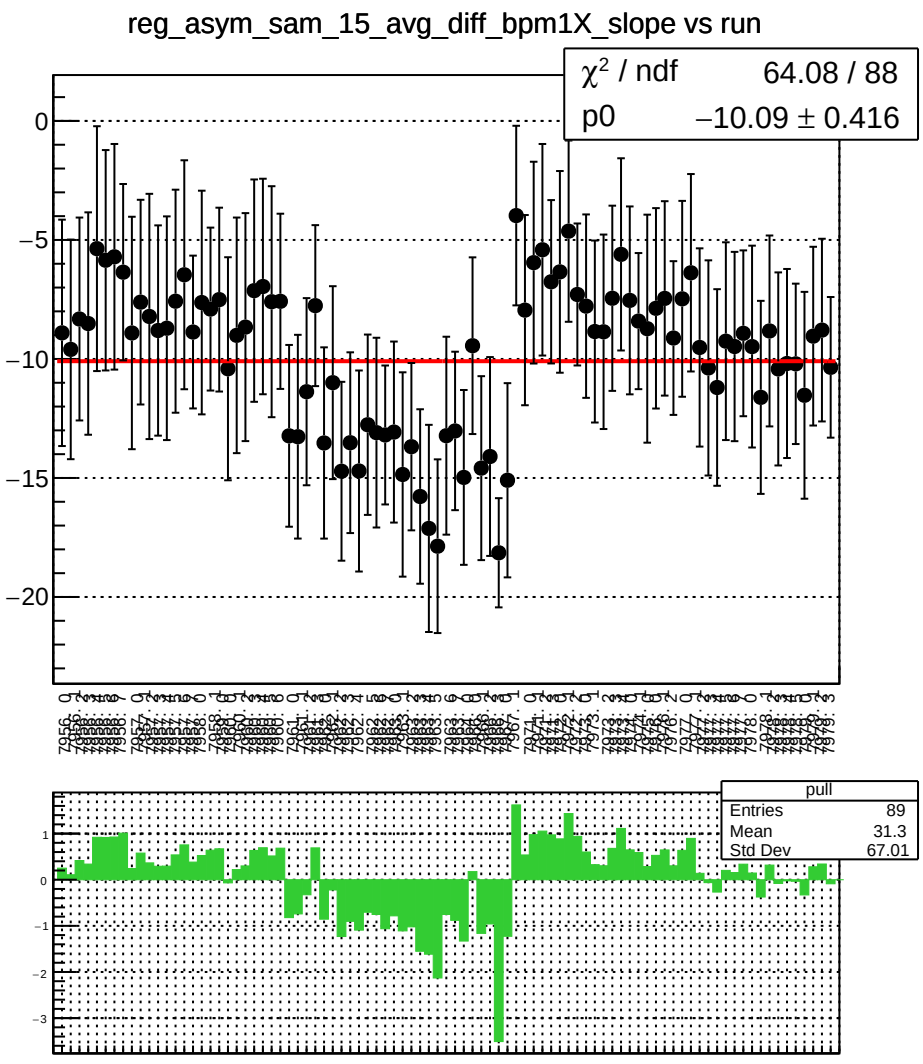

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.99 / 88
p0 42.32 ± 1.959
pull
Entries 89
Mean 97.83
Std Dev 0

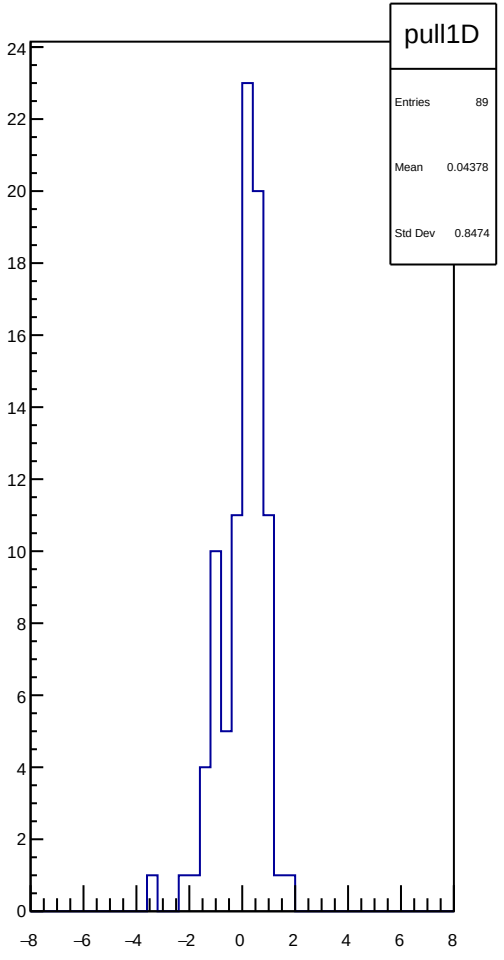

pull1D
Entries 89
Mean −0.02004
Std Dev 0.3816

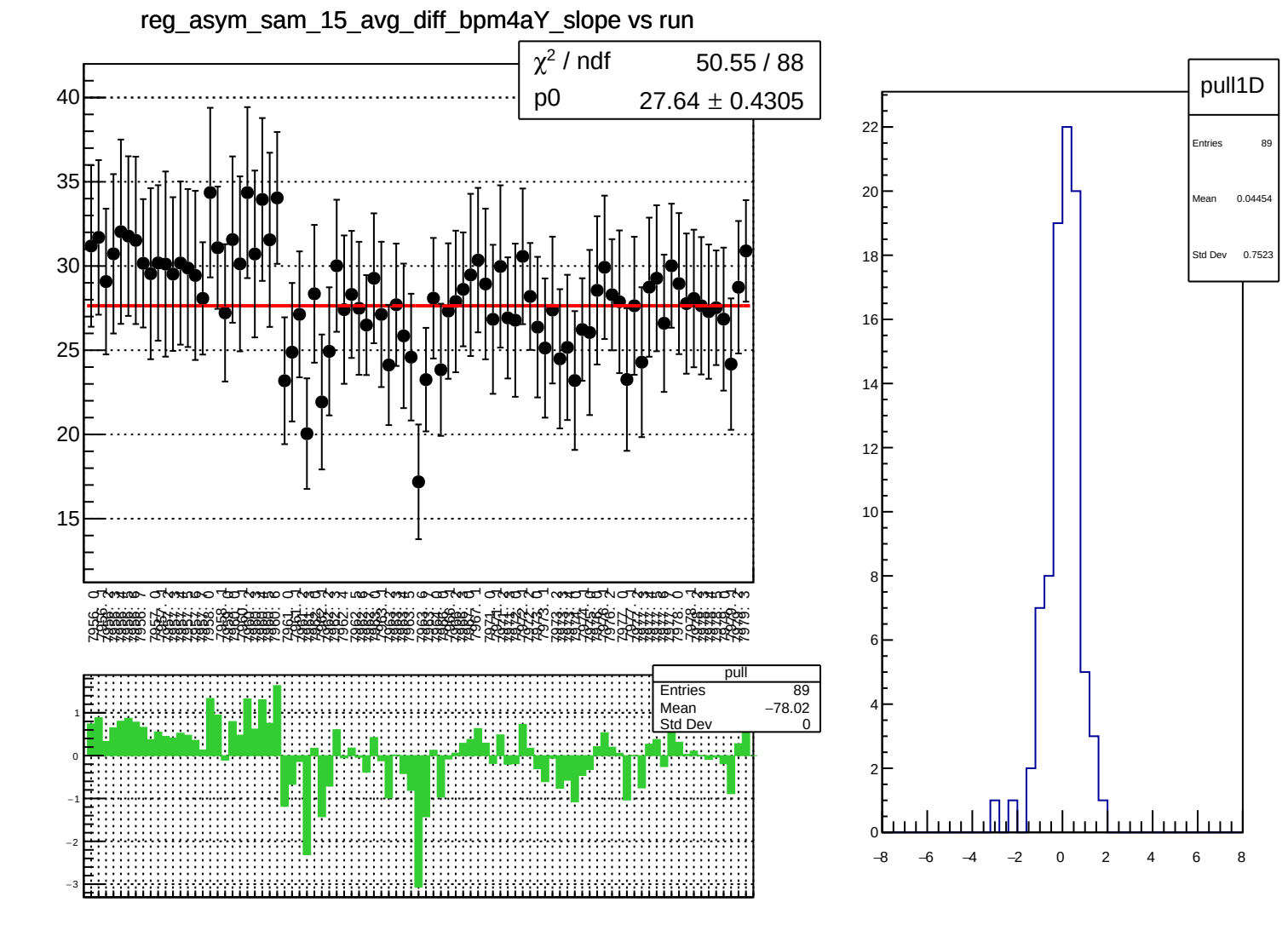

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.46 / 88
p0 −1.504 ± 2.628
pull
Entries 89
Mean 48.36
Std Dev 44.46

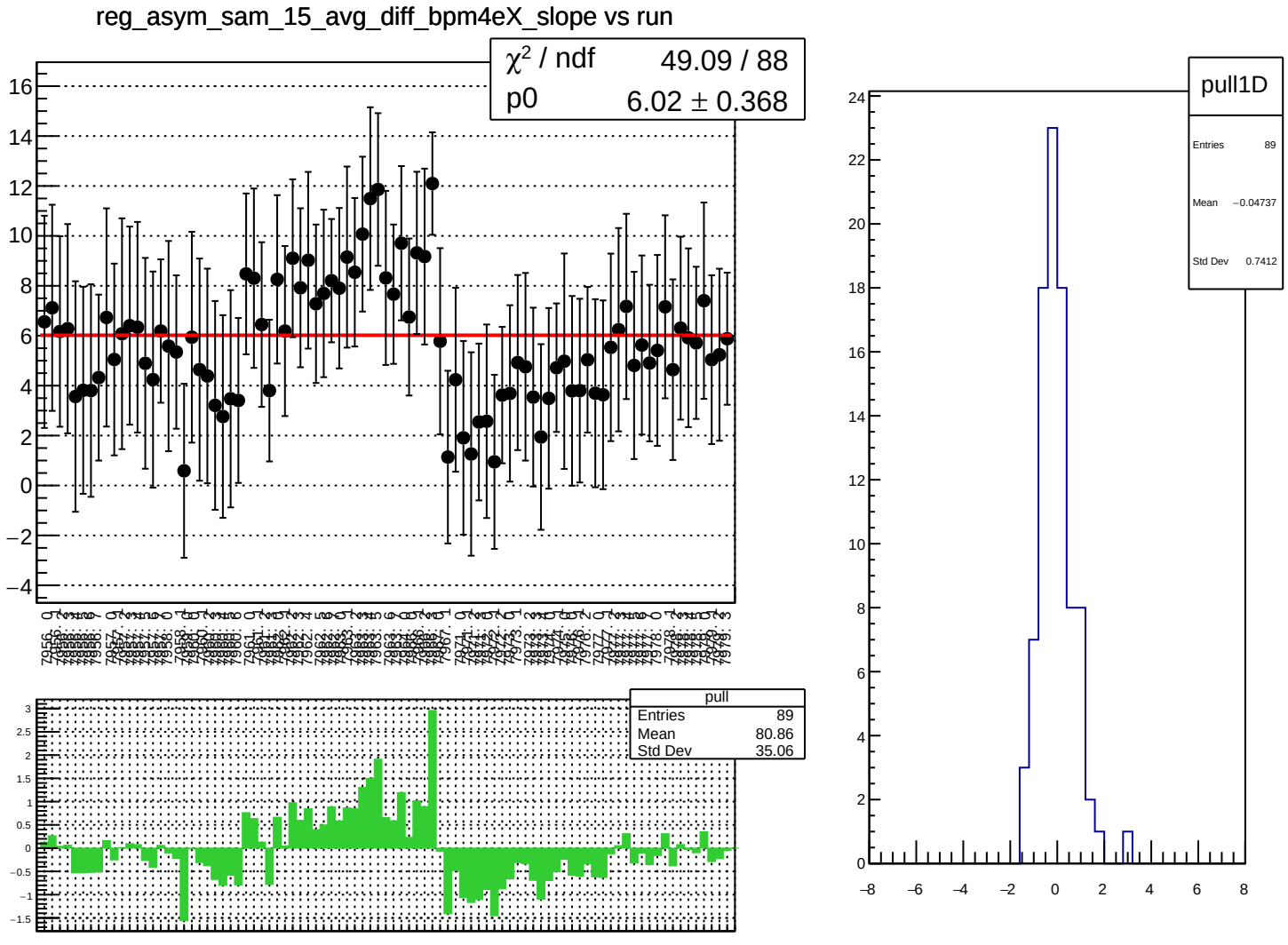

pull1D
Entries 89
Mean 0.003811
Std Dev 0.4031

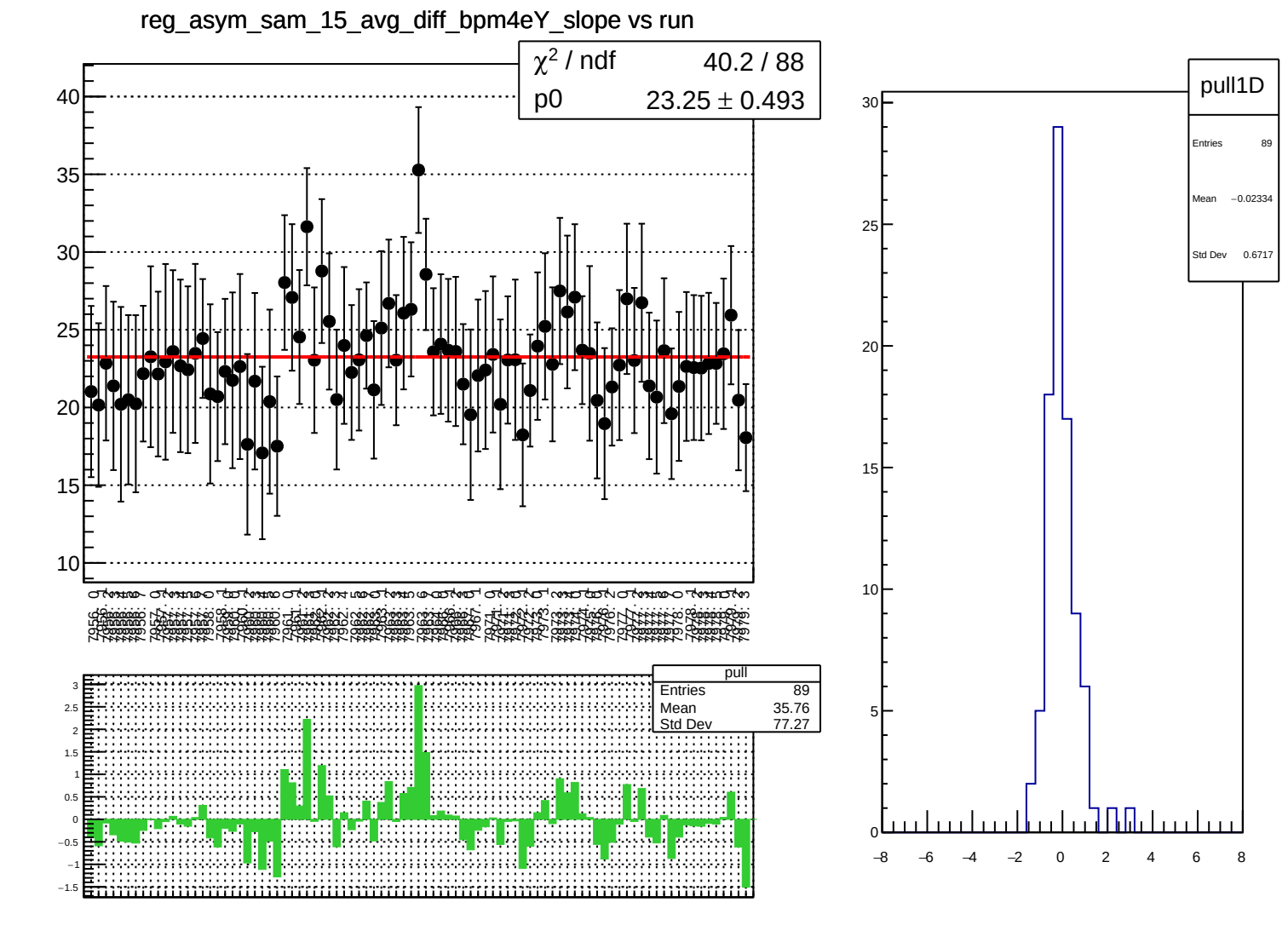

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 122.1 / 88
p0 −19.63 ± 0.07572
pull
Entries 89
Mean −1824
Std Dev 0
pull1D
Entries 89
Mean −0.01133
Std Dev 1.171

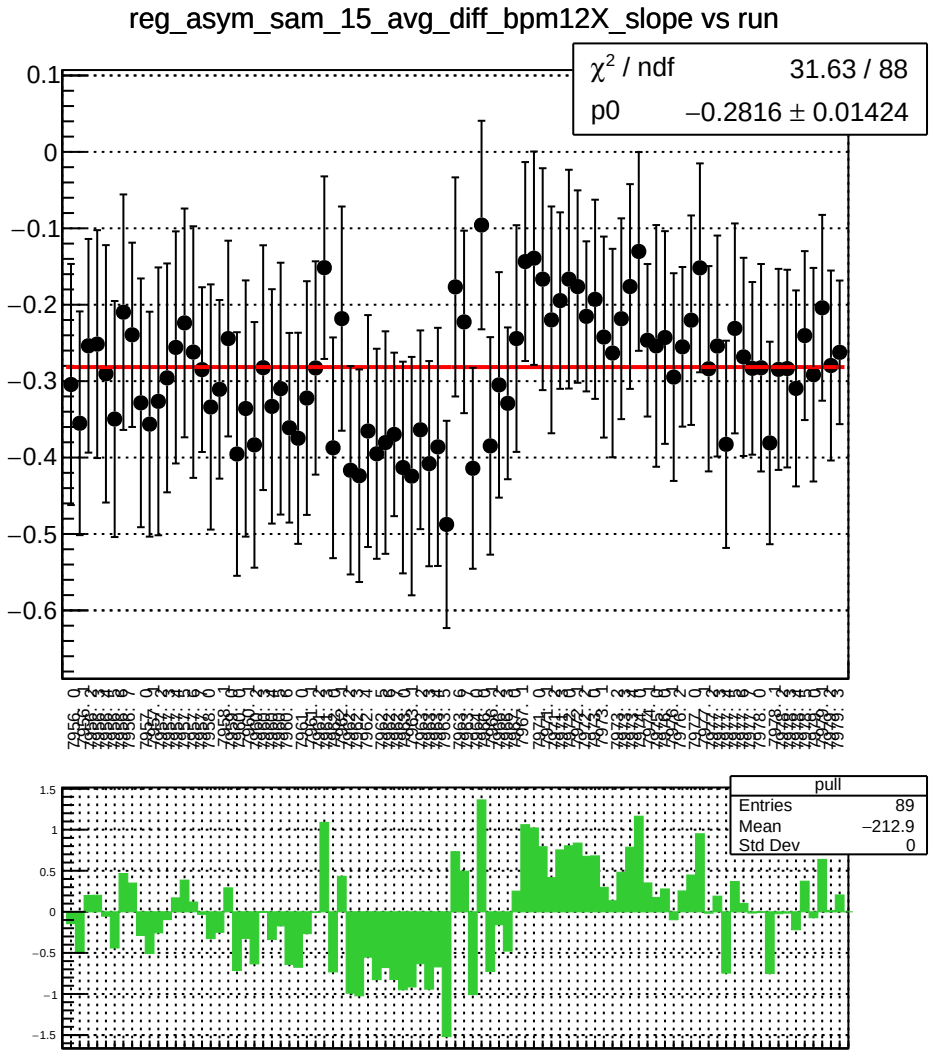

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 64.08 / 88
p0 −10.09 ± 0.416
pull
Entries 89
Mean 31.3
Std Dev 67.01

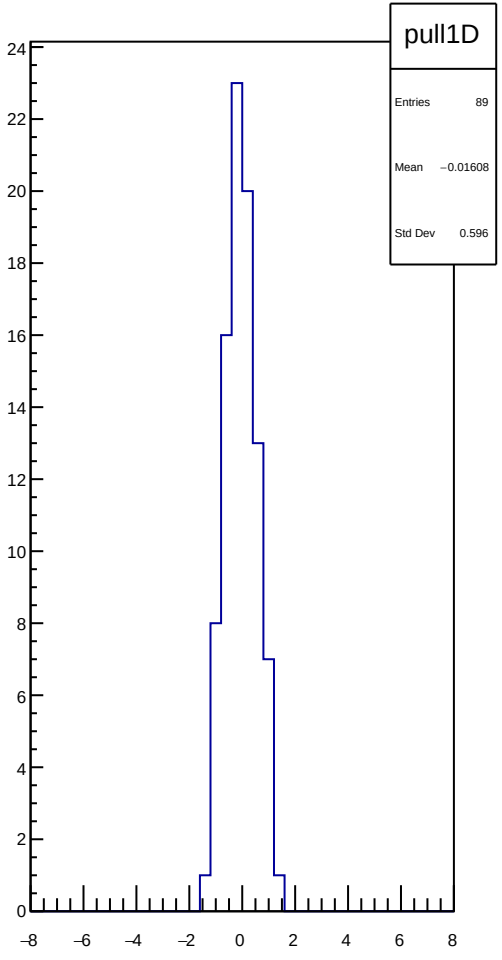

pull1D
Entries 89
Mean 0.04378
Std Dev 0.8474

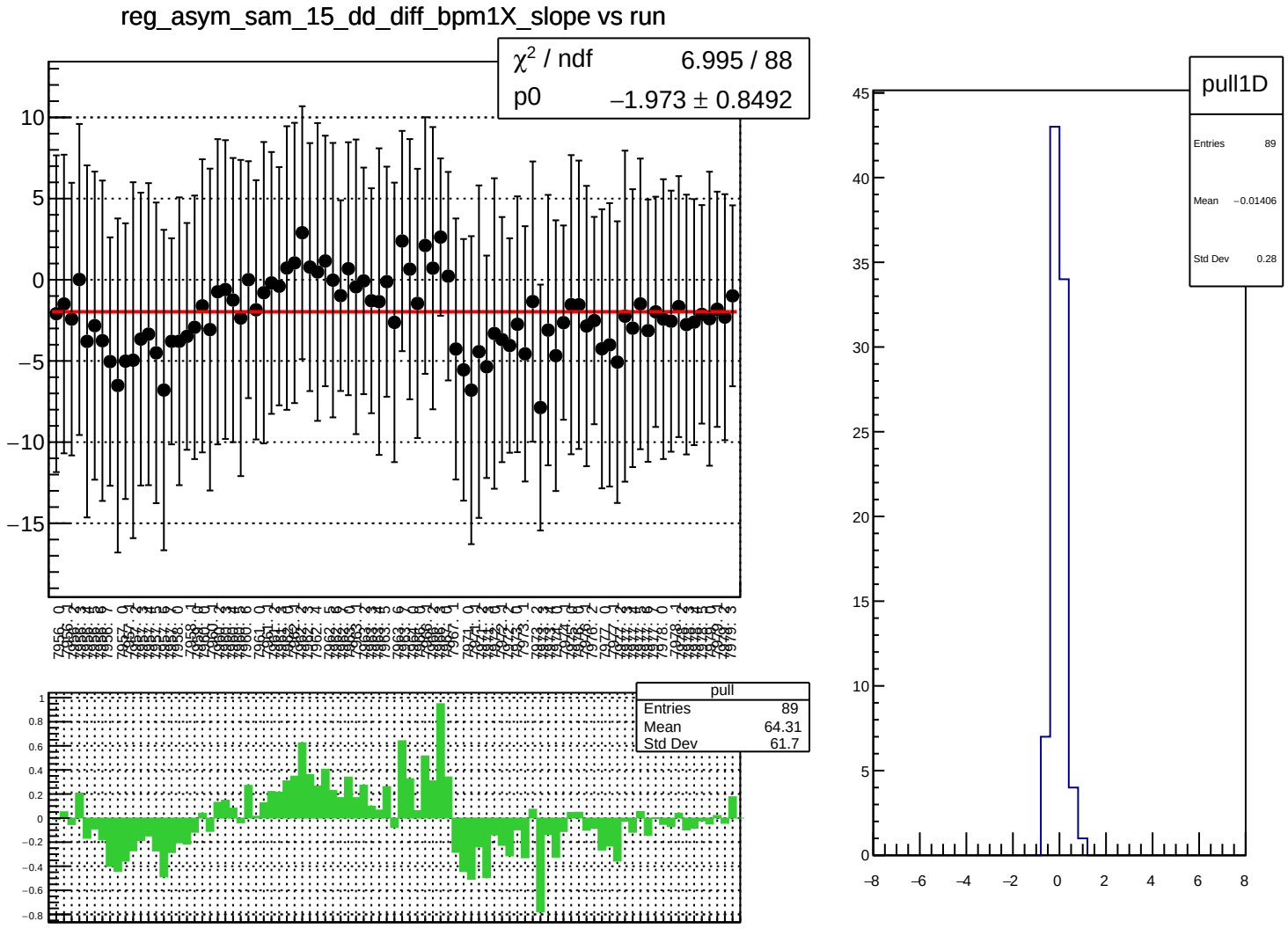

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 50.55 / 88
p0 27.64 ± 0.4305
pull
Entries 89
Mean −78.02
Std Dev 0
pull1D
Entries 89
Mean 0.04454
Std Dev 0.7523

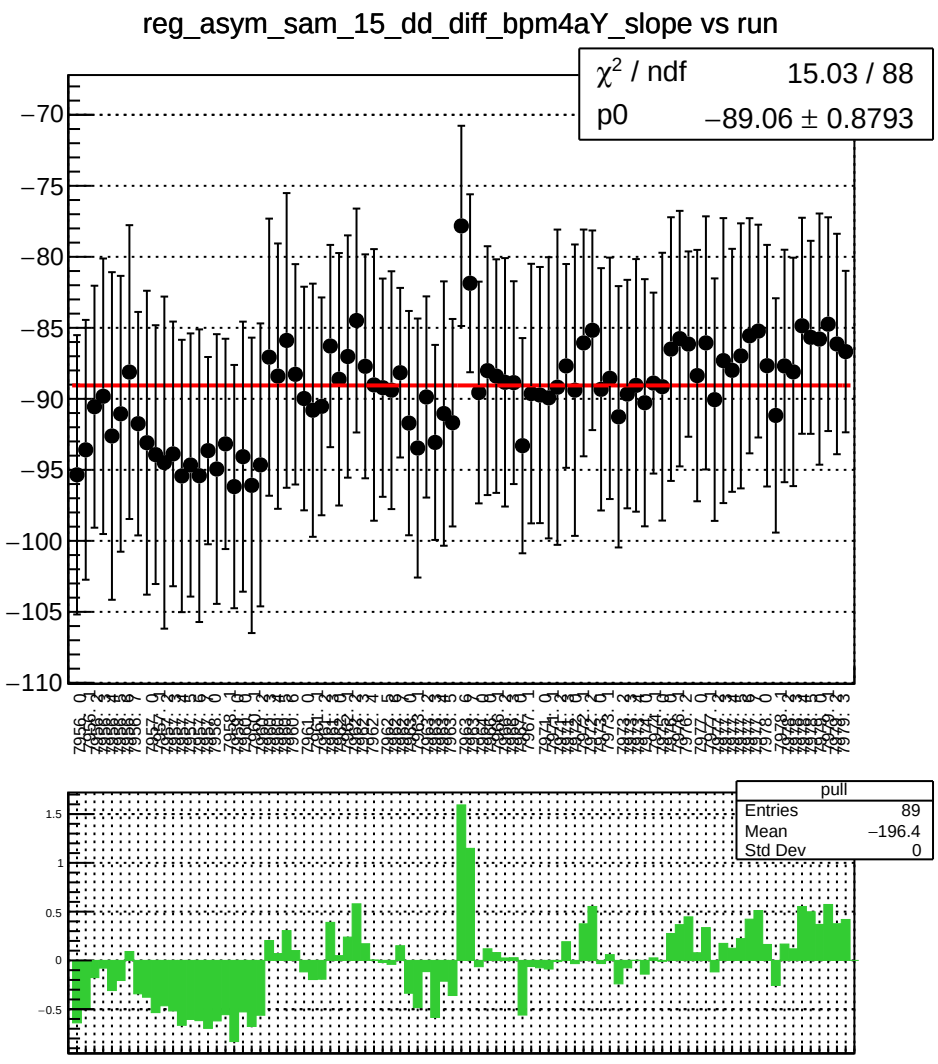

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.09 / 88
p0 6.02 ± 0.368
pull
Entries 89
Mean 80.86
Std Dev 35.06
pull1D
Entries 89
Mean −0.04737
Std Dev 0.7412

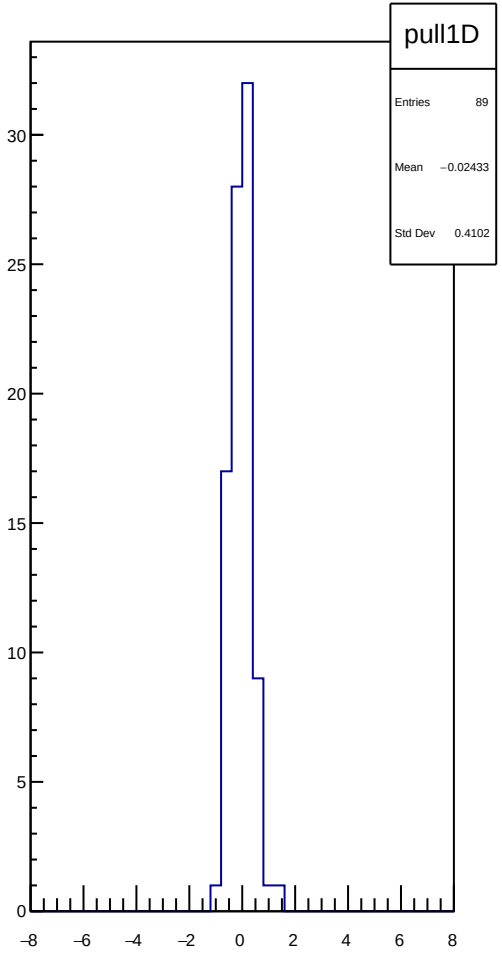

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.2 / 88
p0 23.25 ± 0.493
pull
Entries 89
Mean 35.76
Std Dev 77.27
pull1D
Entries 89
Mean −0.02334
Std Dev 0.6717

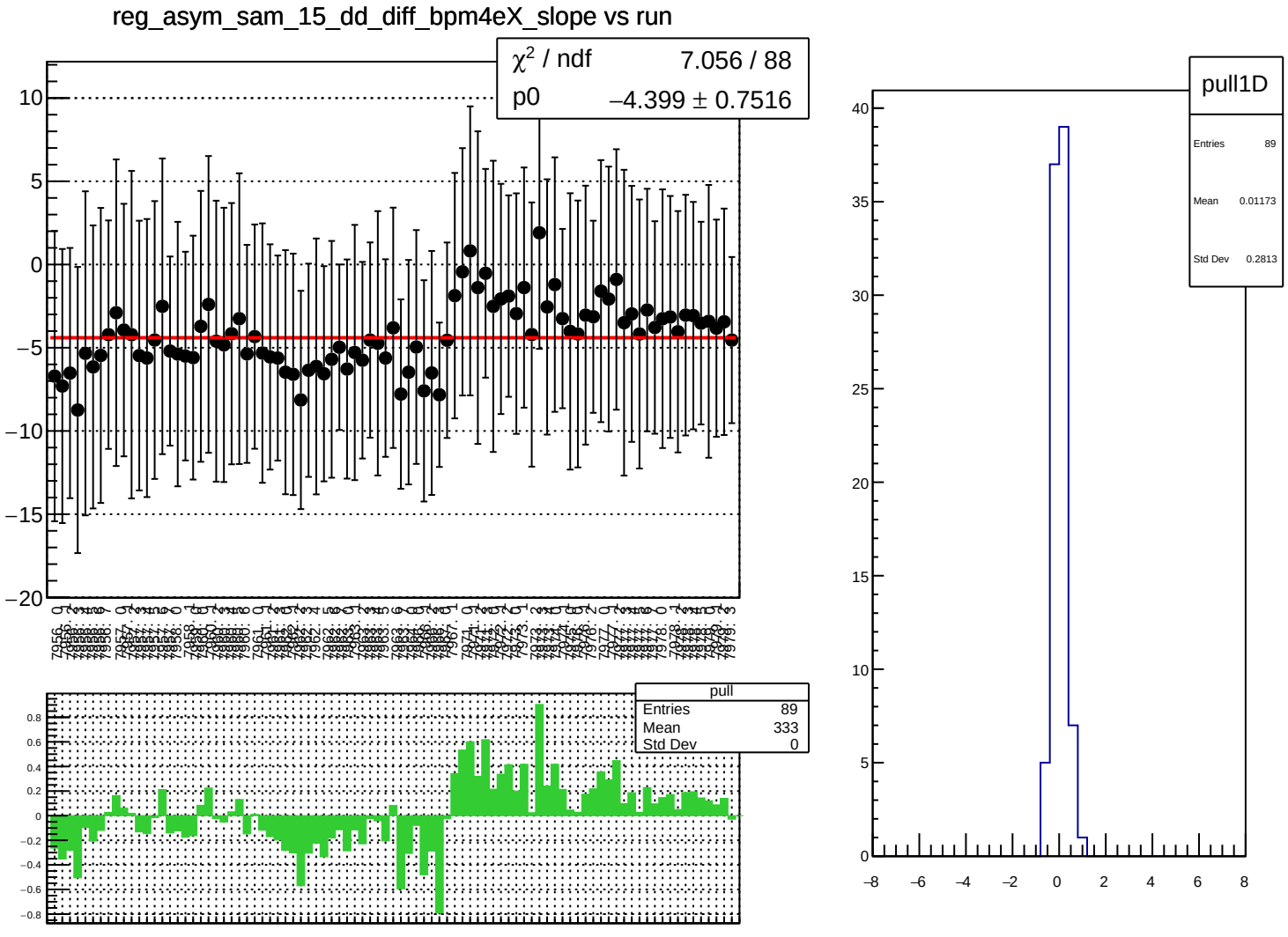

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 31.63 / 88
p0 −0.2816 ± 0.01424
pull
Entries 89
Mean −212.9
Std Dev 0

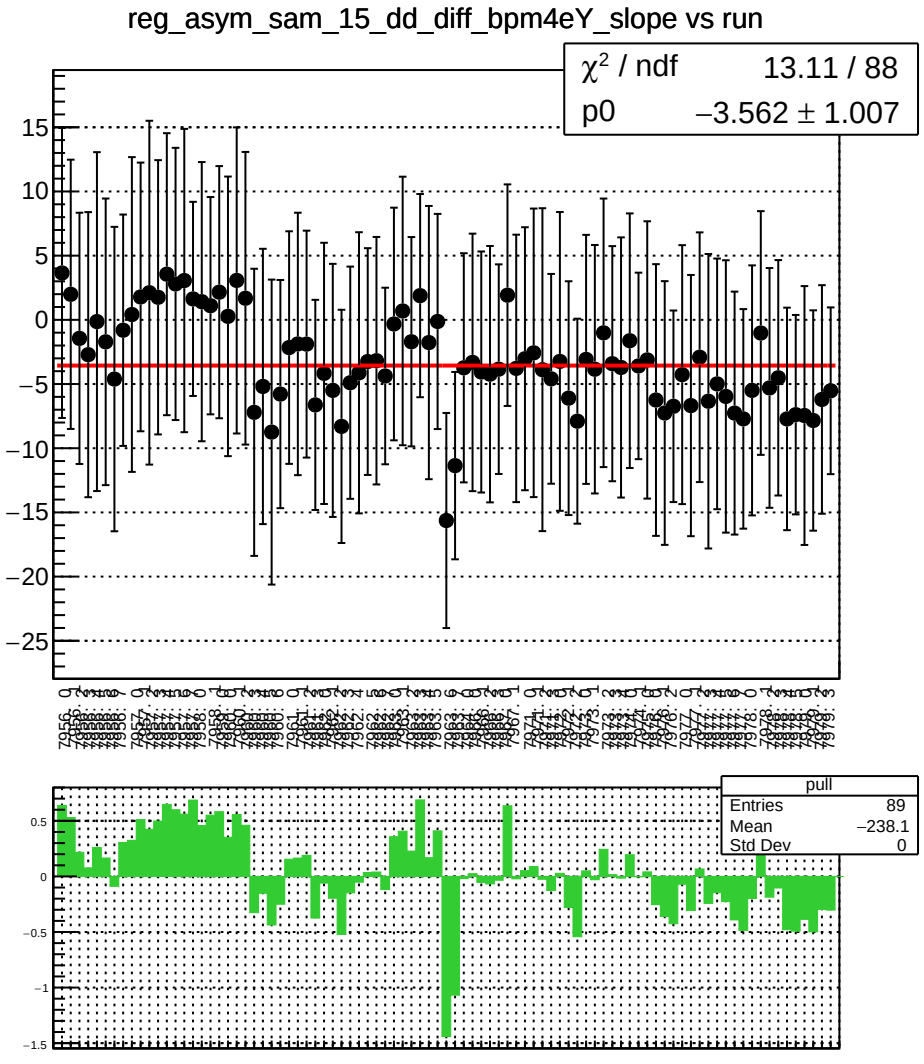

pull1D
Entries 89
Mean −0.01608
Std Dev 0.596

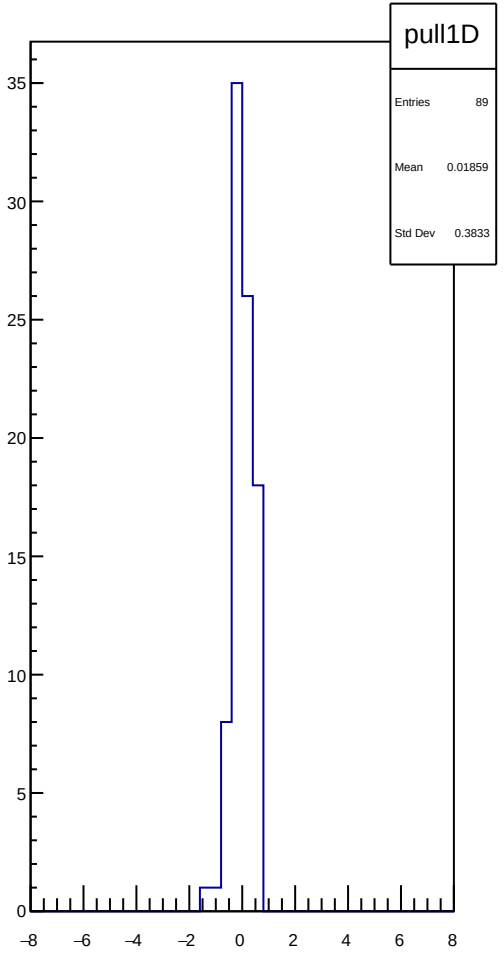

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 6.995 / 88
p0 −1.973 ± 0.8492
pull
Entries 89
Mean 64.31
Std Dev 61.7
pull1D
Entries 89
Mean −0.01406
Std Dev 0.28

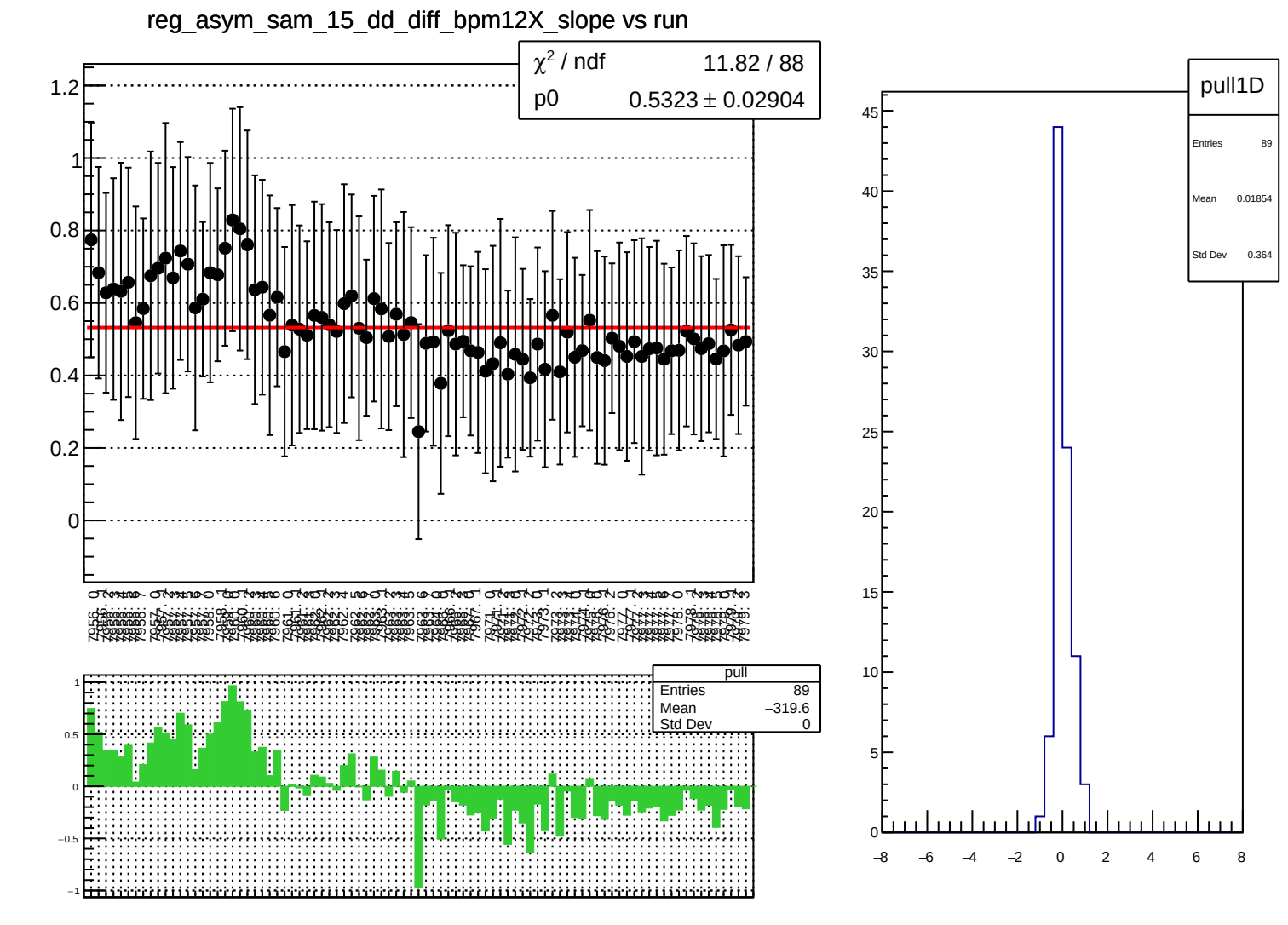

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.03 / 88
p0 −89.06 ± 0.8793
pull
Entries 89
Mean −196.4
Std Dev 0

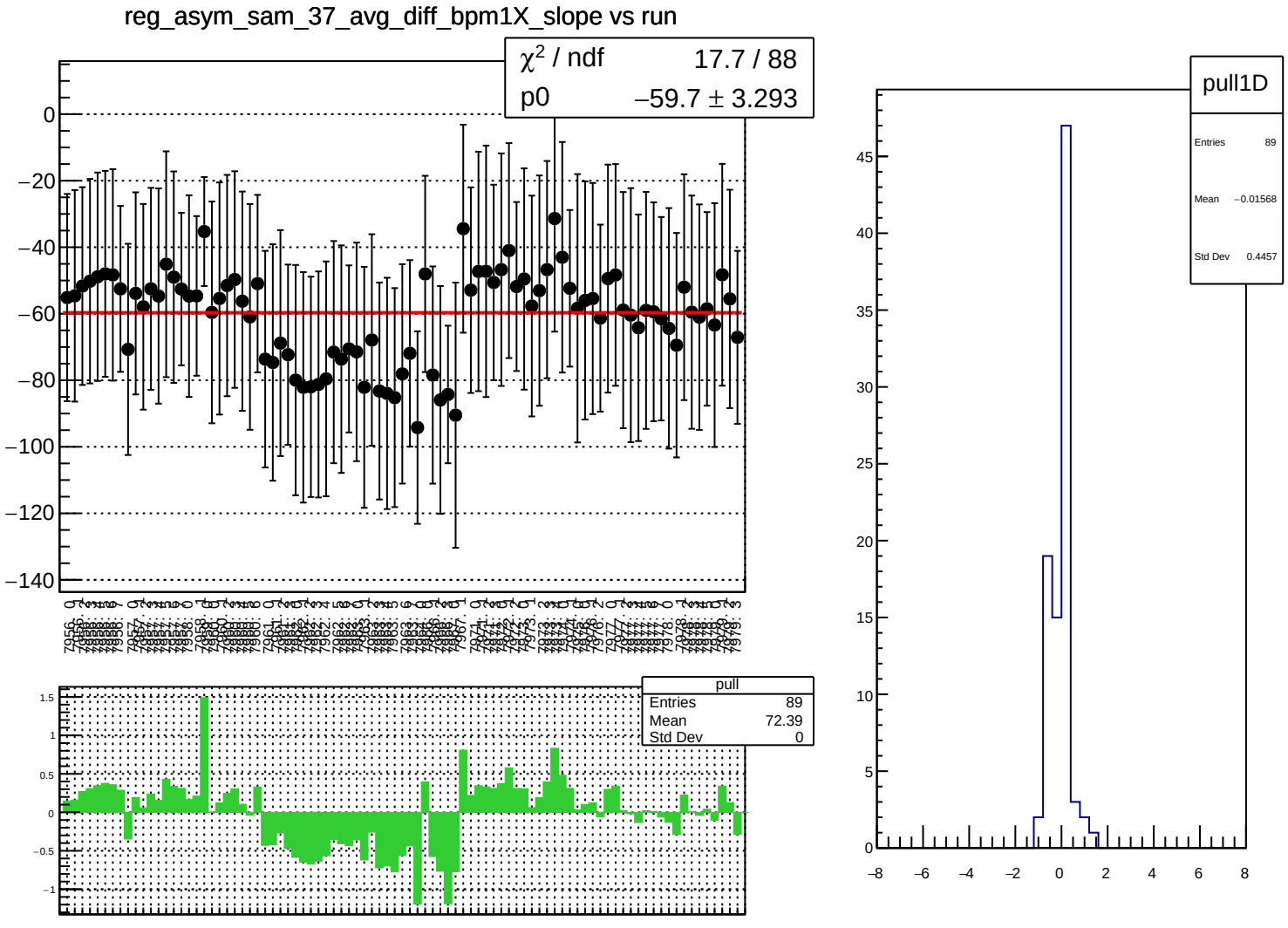

pull1D
Entries 89
Mean −0.02433
Std Dev 0.4102

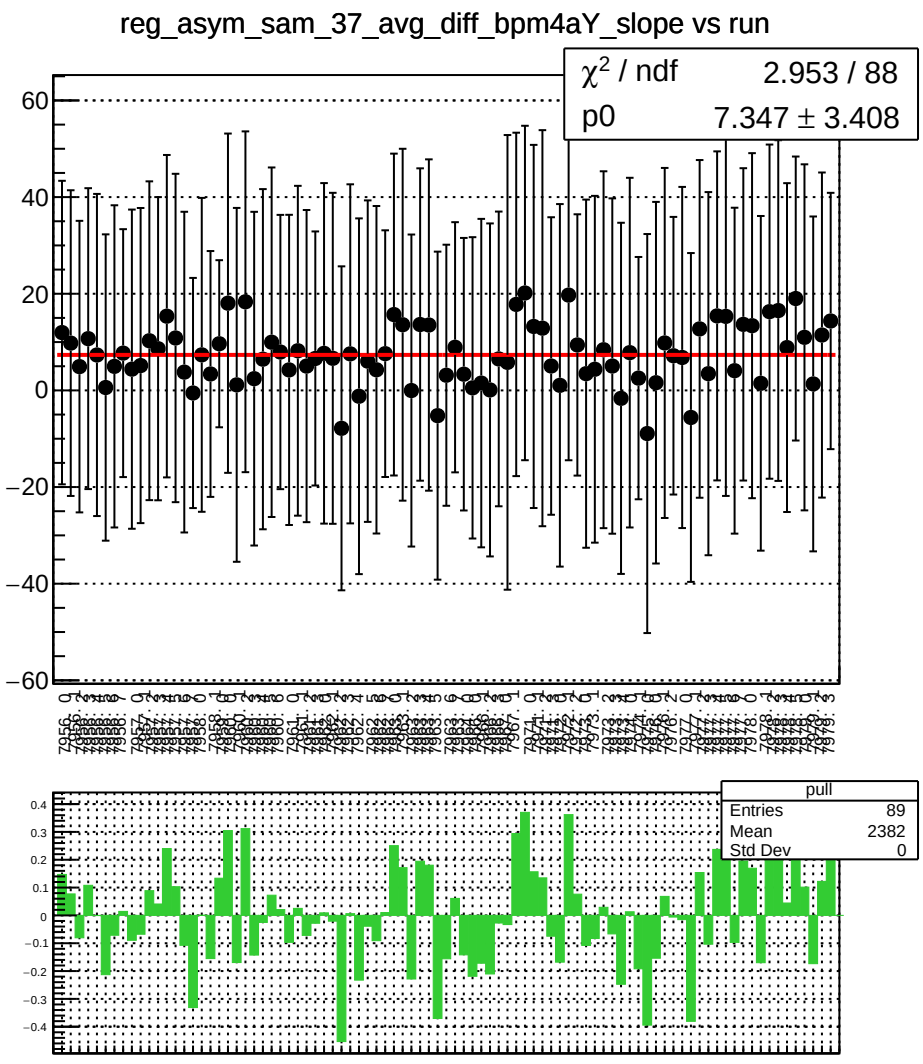

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.056 / 88
p0 −4.399 ± 0.7516
pull
Entries 89
Mean 333
Std Dev 0
pull1D
Entries 89
Mean 0.01173
Std Dev 0.2813

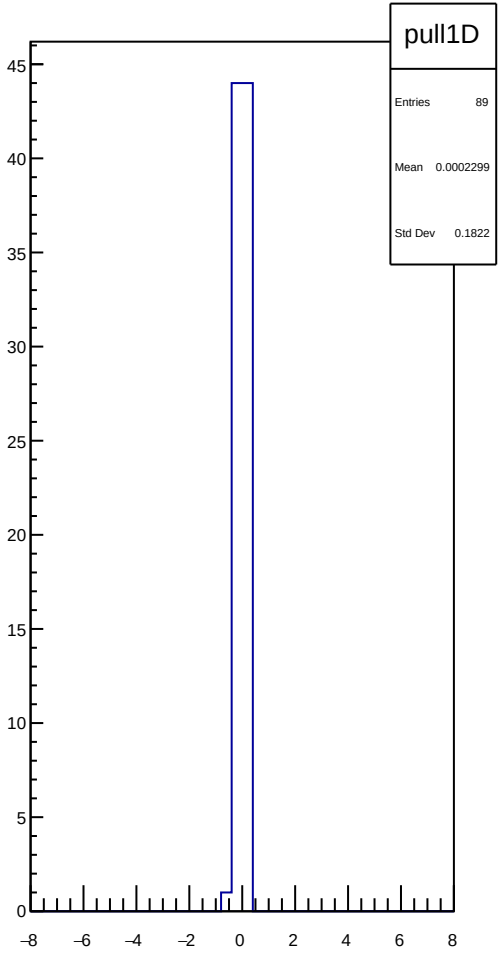

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.11 / 88
p0 −3.562 ± 1.007
pull
Entries 89
Mean −238.1
Std Dev 0

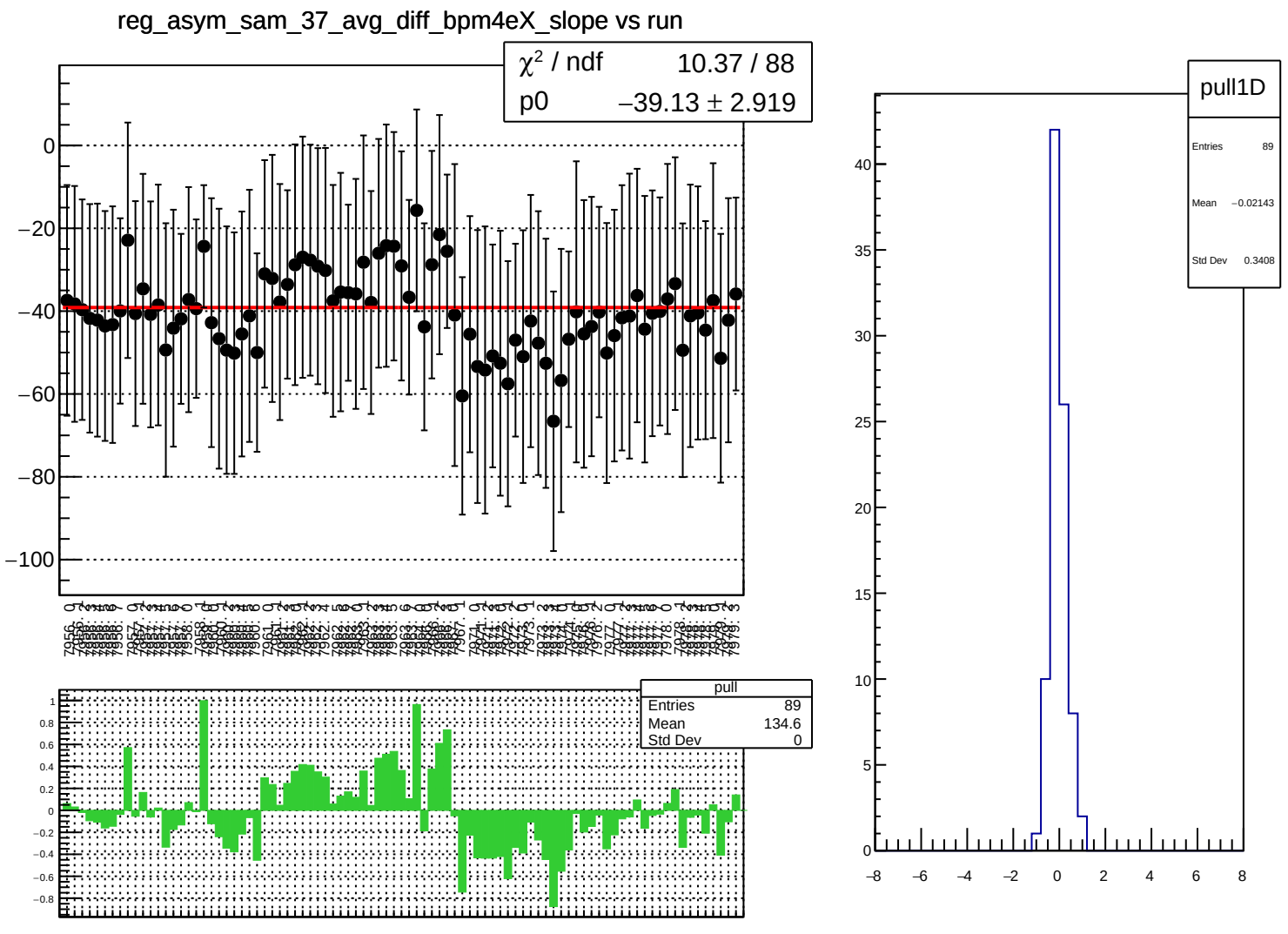

pull1D
Entries 89
Mean 0.01859
Std Dev 0.3833

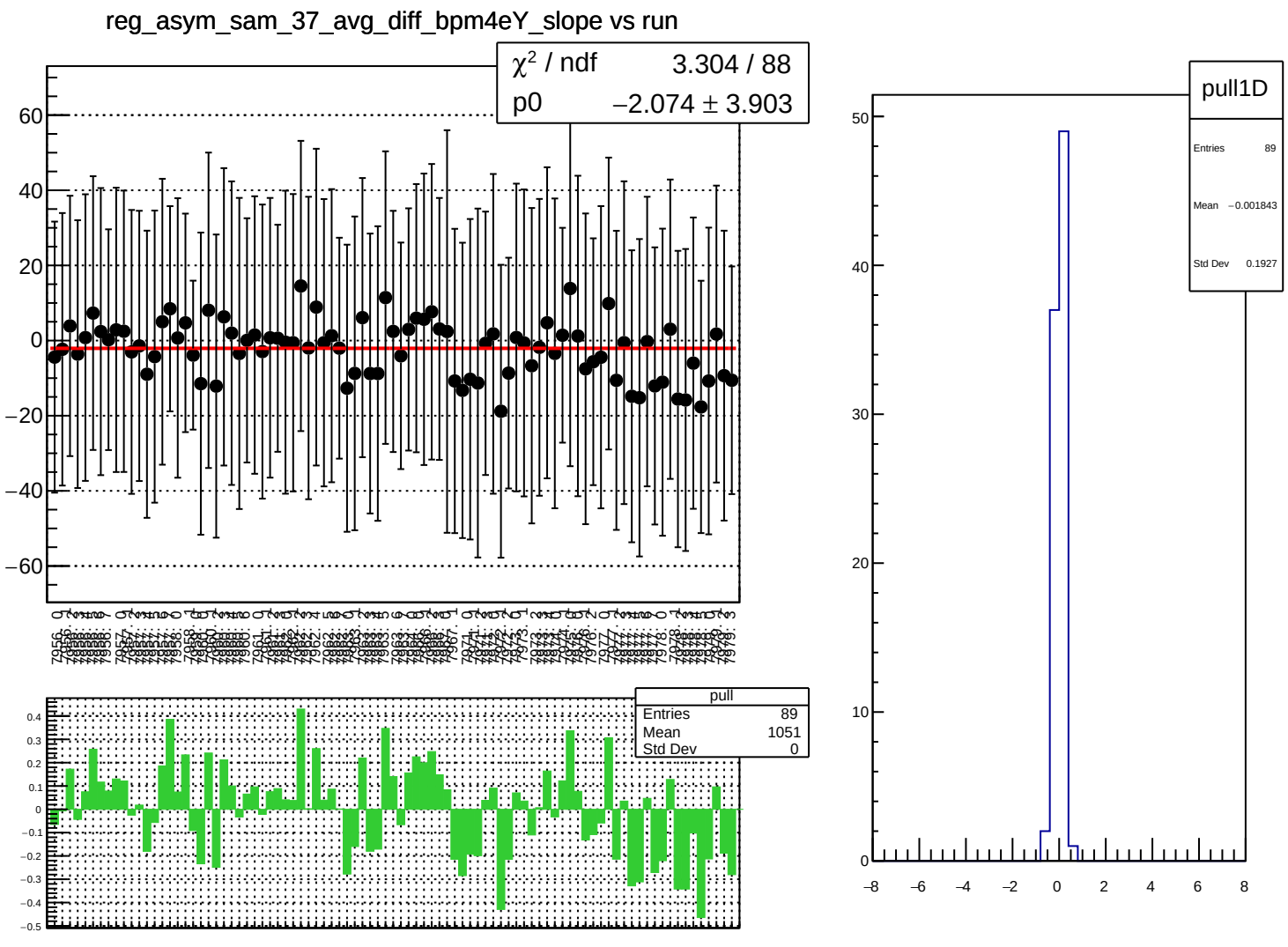

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 11.82 / 88
p0 0.5323 ± 0.02904
pull
Entries 89
Mean −319.6
Std Dev 0
pull1D
Entries 89
Mean 0.01854
Std Dev 0.364

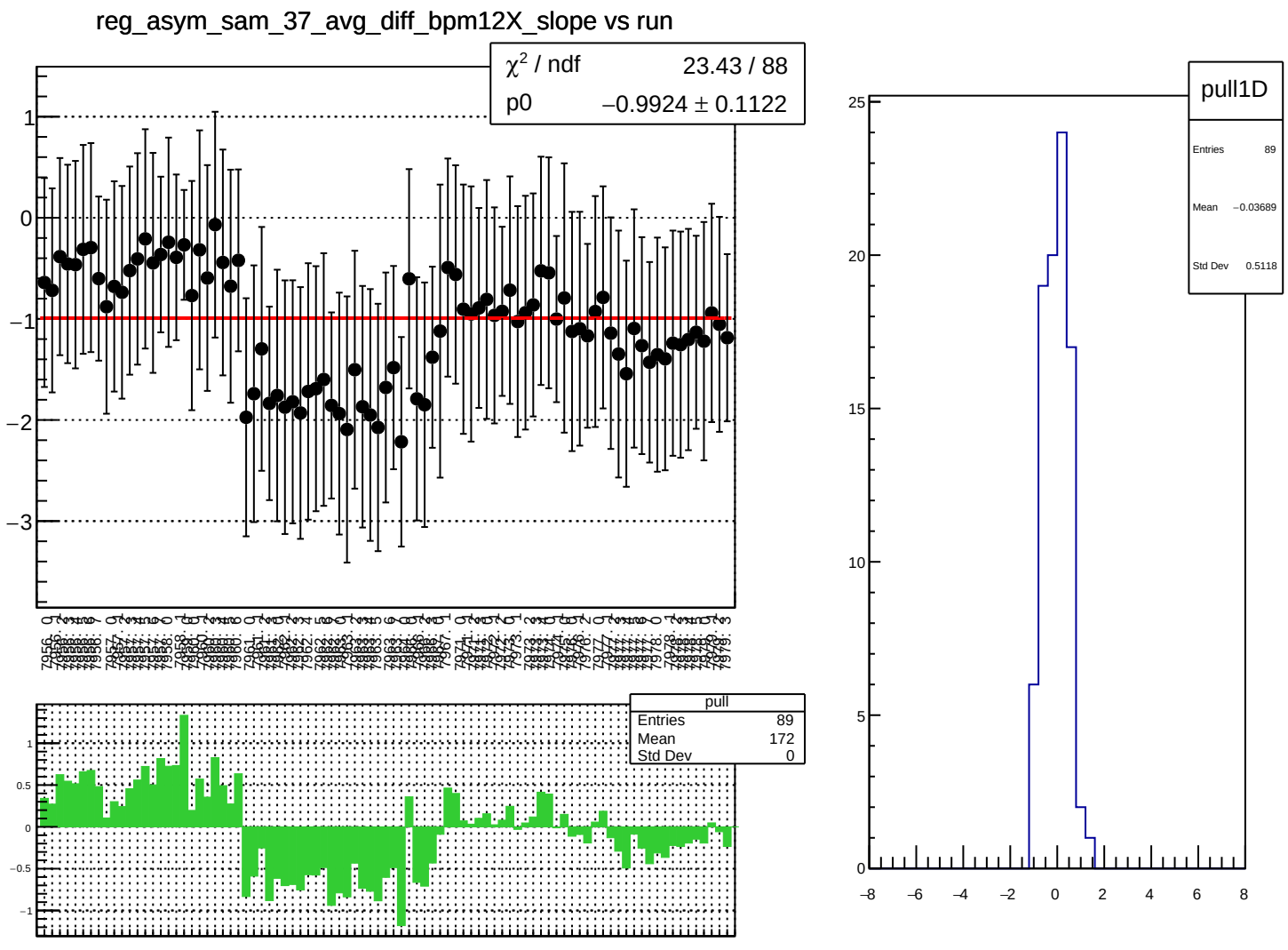

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 17.7 / 88
p0 −59.7 ± 3.293
pull
Entries 89
Mean 72.39
Std Dev 0
pull1D
Entries 89
Mean −0.01568
Std Dev 0.4457

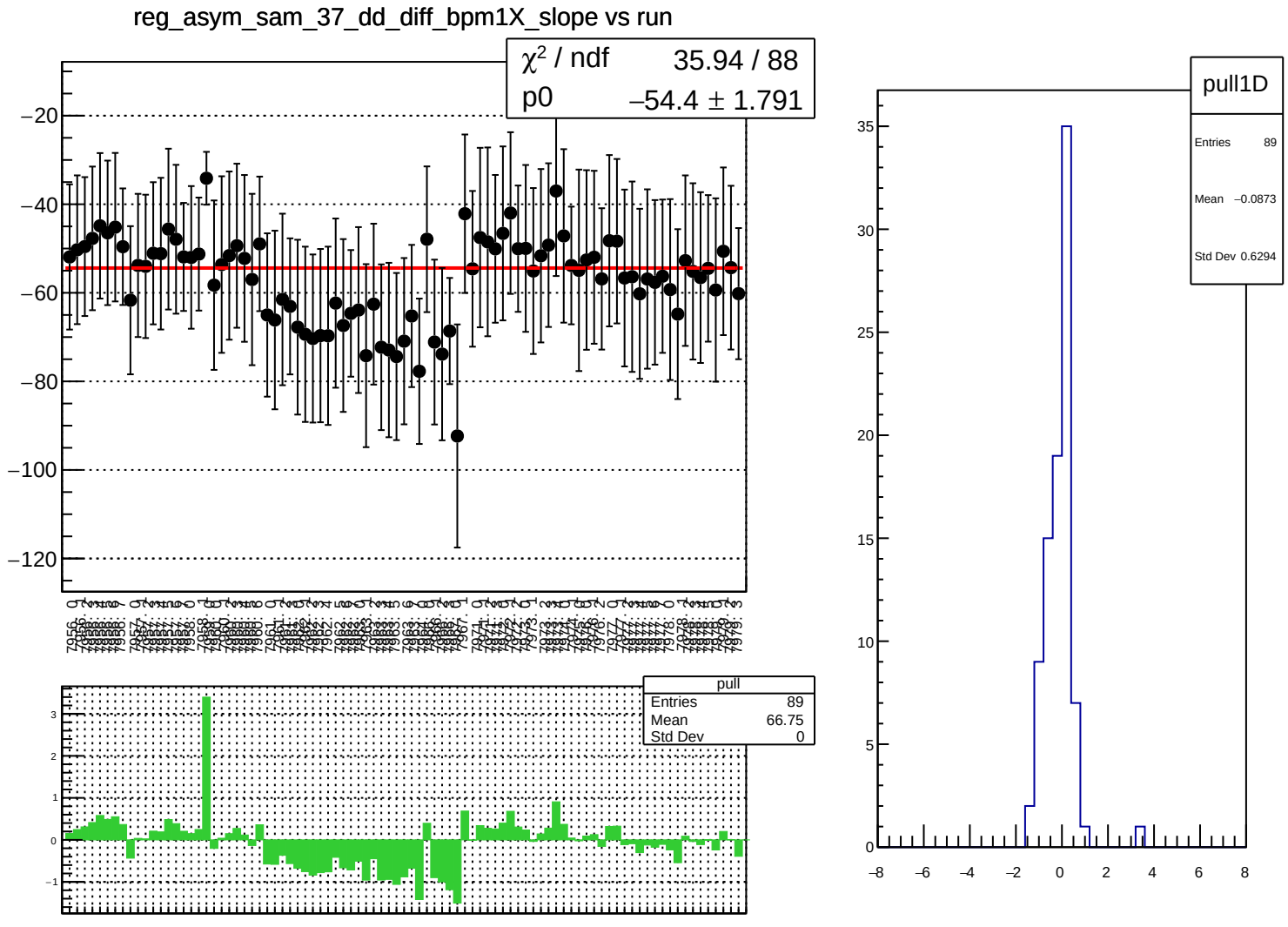

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.953 / 88
p0 7.347 ± 3.408
pull
Entries 89
Mean 2382
Std Dev 0

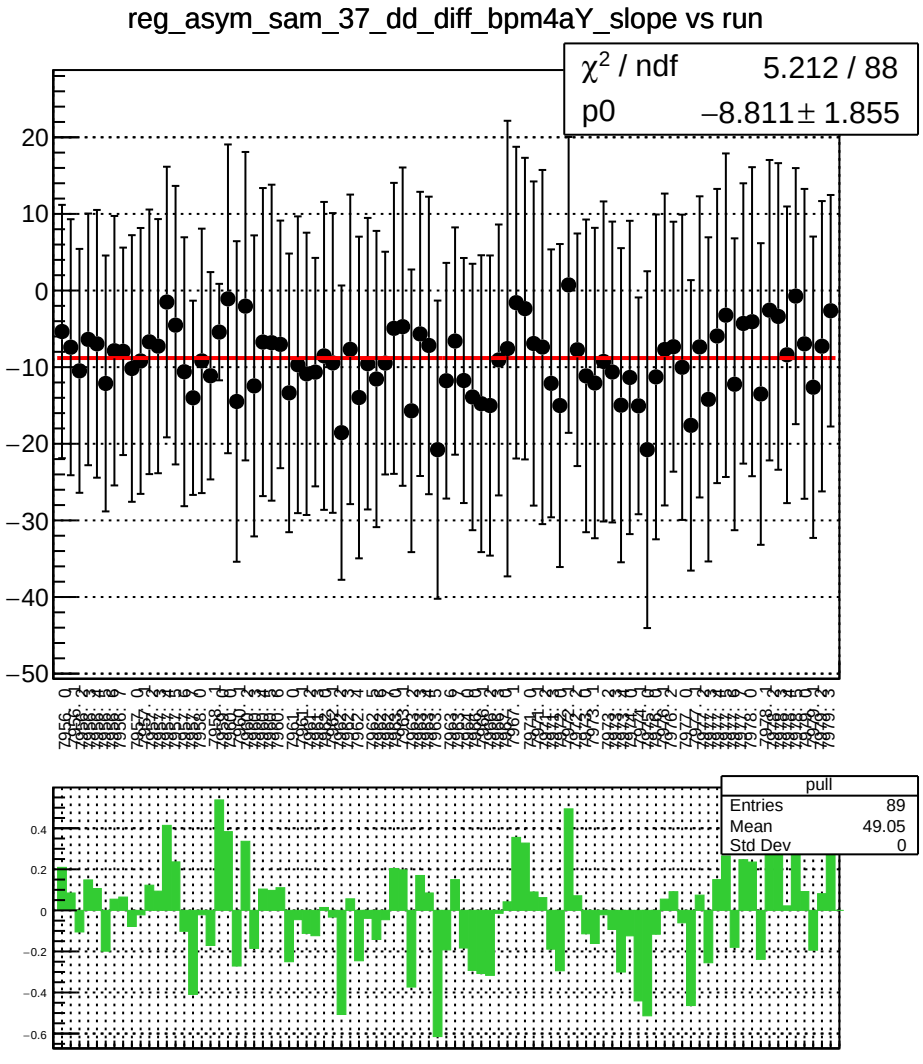

pull1D
Entries 89
Mean 0.0002299
Std Dev 0.1822

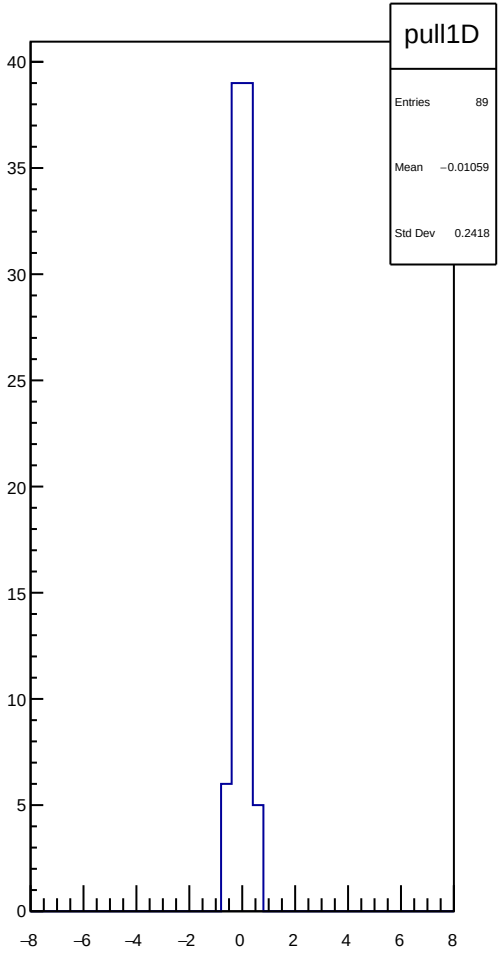

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.37 / 88
p0 −39.13 ± 2.919
pull
Entries 89
Mean 134.6
Std Dev 0
pull1D
Entries 89
Mean −0.02143
Std Dev 0.3408

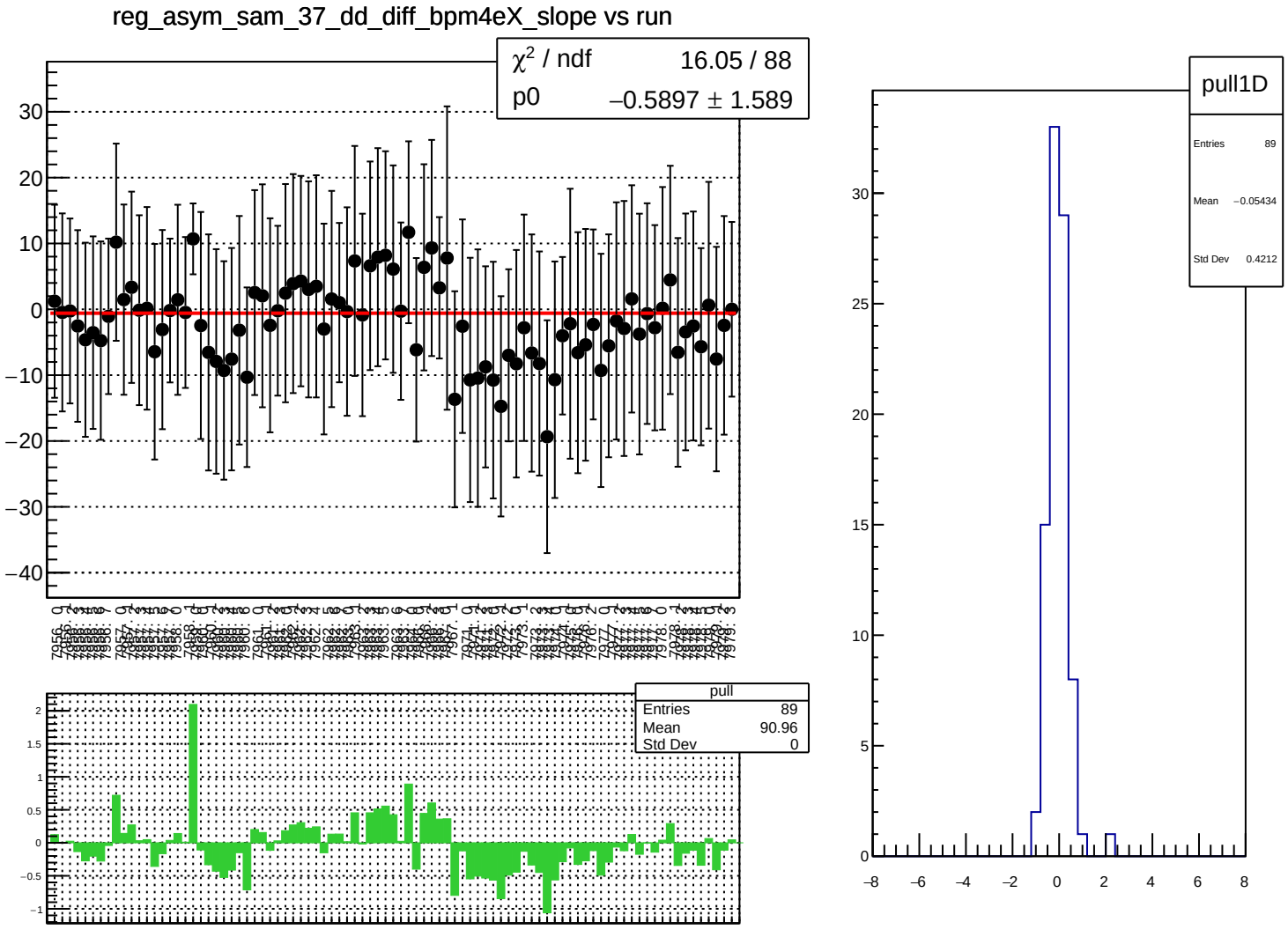

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.304 / 88
p0 −2.074 ± 3.903
pull
Entries 89
Mean 1051
Std Dev 0
pull1D
Entries 89
Mean −0.001843
Std Dev 0.1927

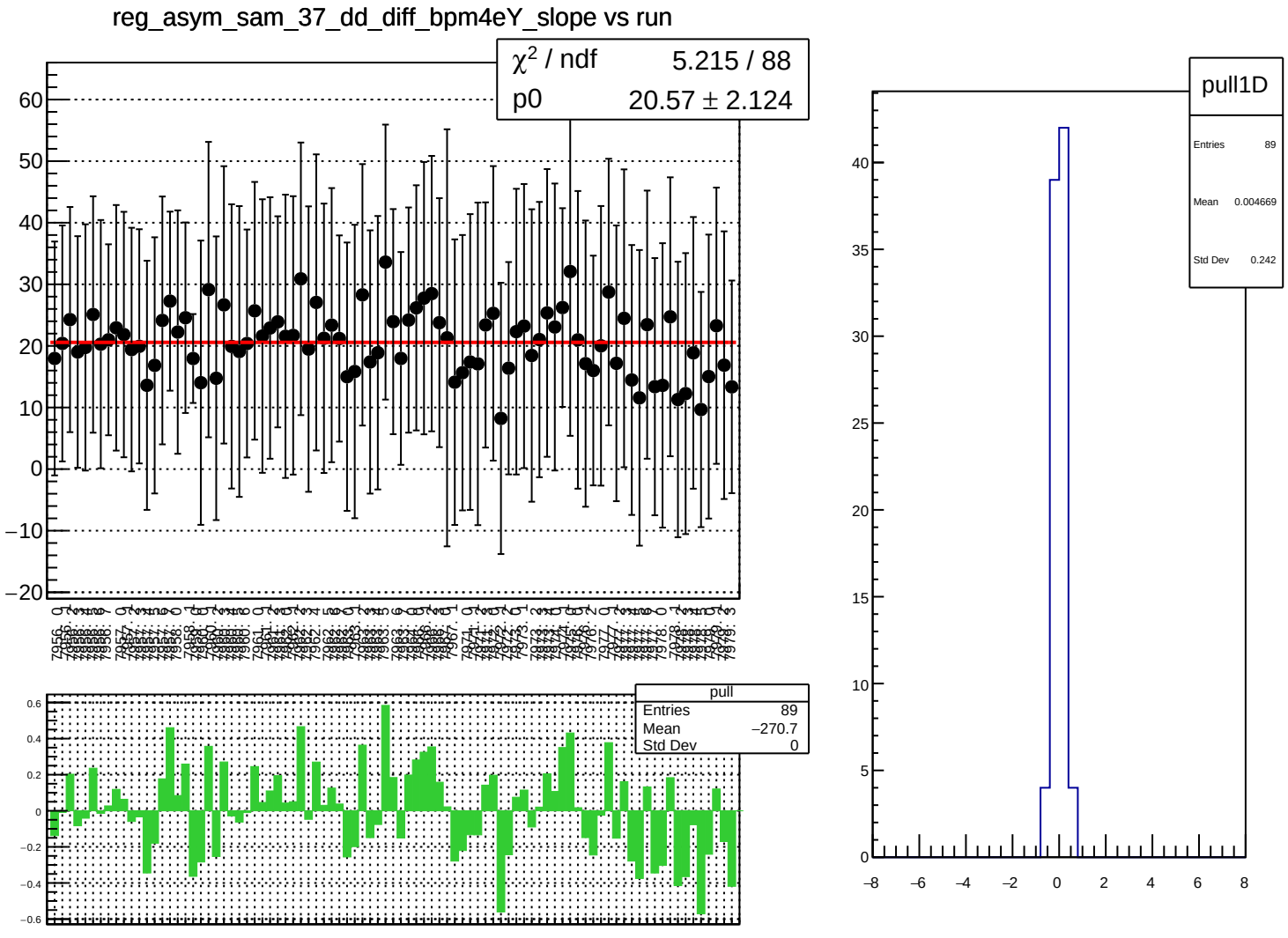

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 23.43 / 88
p0 −0.9924 ± 0.1122
pull
Entries 89
Mean 172
Std Dev 0
pull1D
Entries 89
Mean −0.03689
Std Dev 0.5118

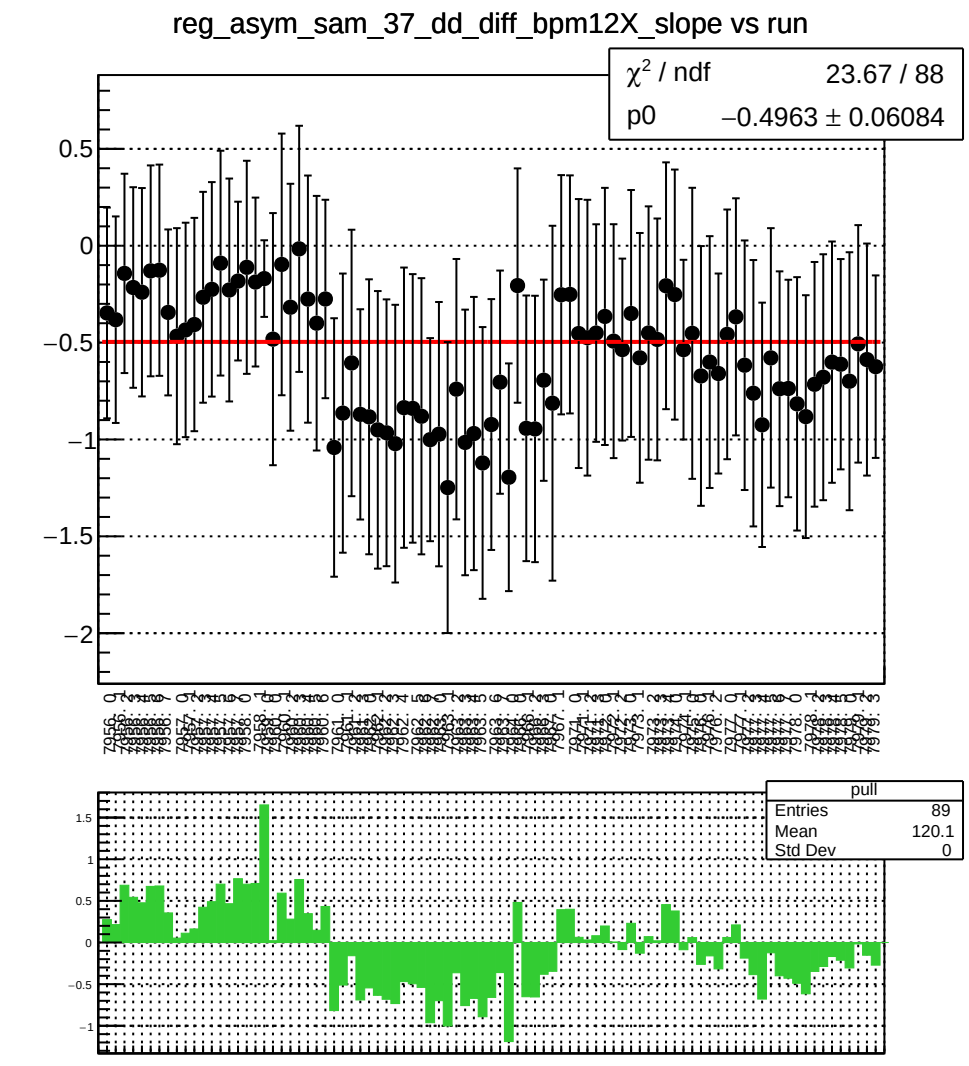

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 35.94 / 88
p0 −54.4 ± 1.791
pull
Entries 89
Mean 66.75
Std Dev 0
pull1D
Entries 89
Mean −0.0873
Std Dev 0.6294

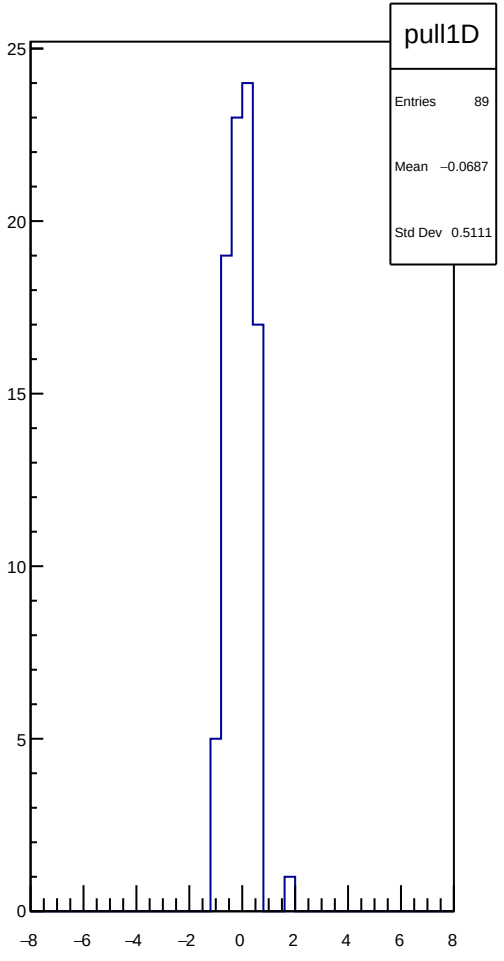

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.212 / 88
p0 −8.811± 1.855
pull
Entries 89
Mean 49.05
Std Dev 0

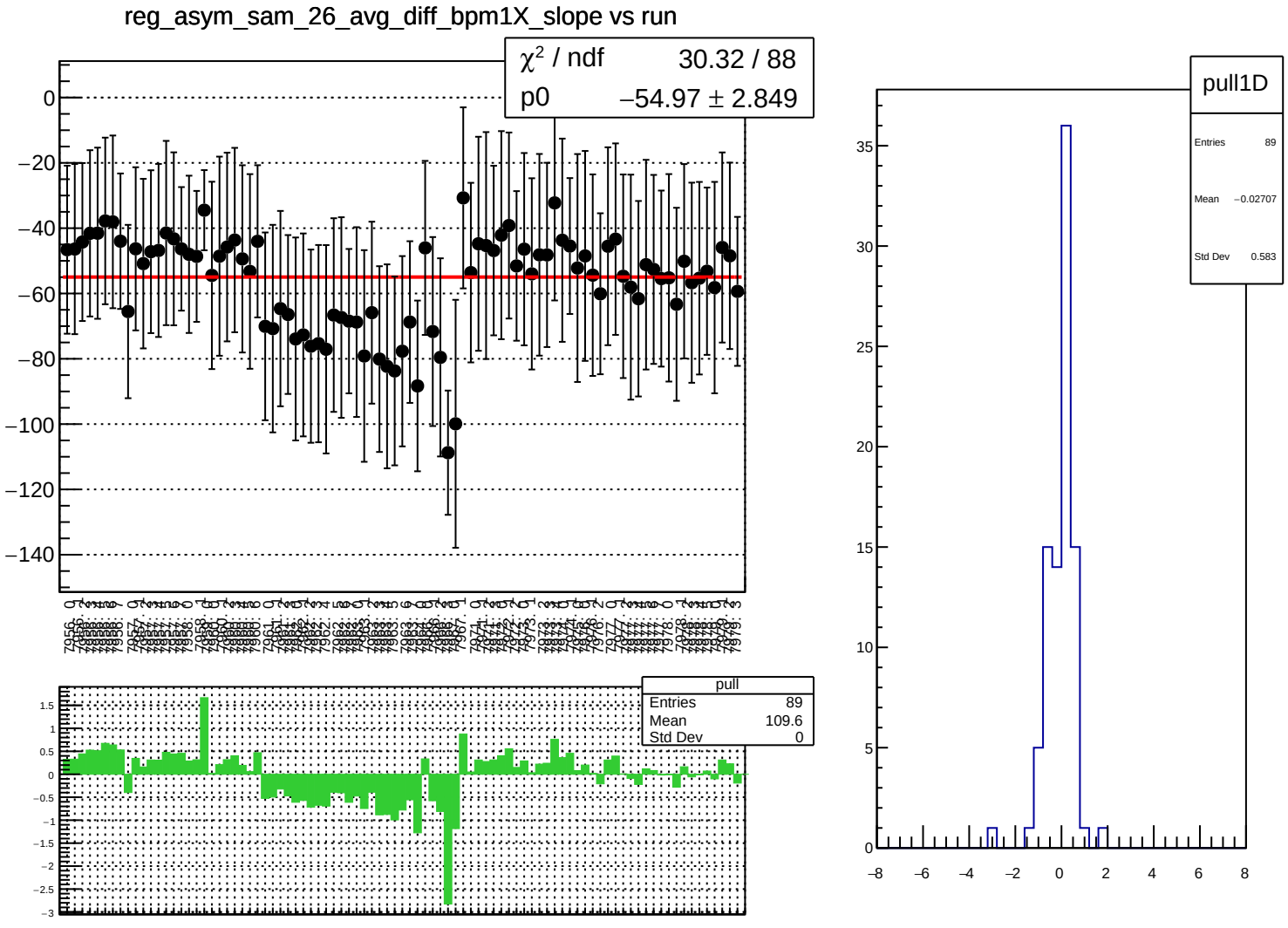

pull1D
Entries 89
Mean −0.01059
Std Dev 0.2418

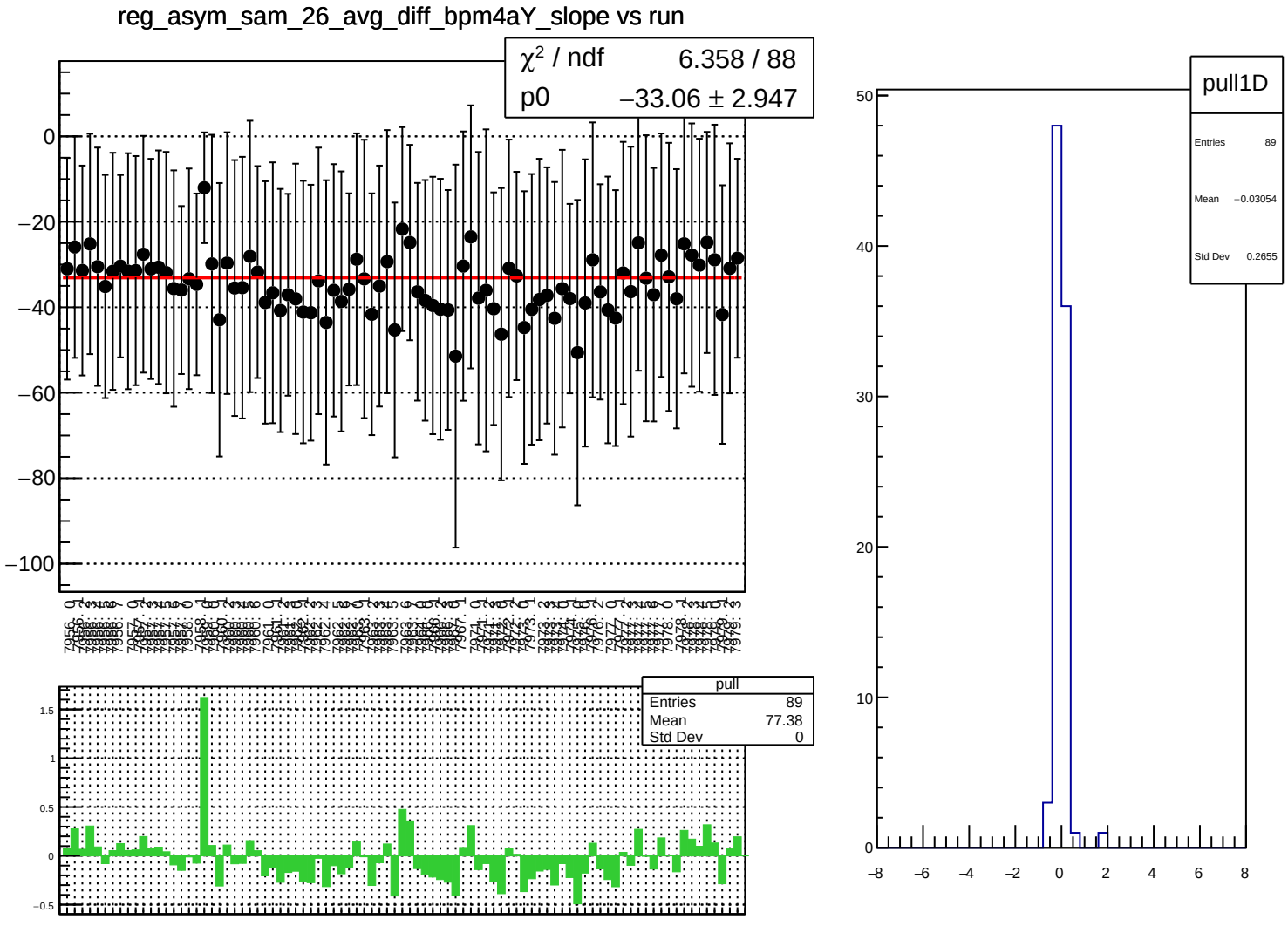

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.05 / 88
p0 −0.5897 ± 1.589
pull
Entries 89
Mean 90.96
Std Dev 0
pull1D
Entries 89
Mean −0.05434
Std Dev 0.4212

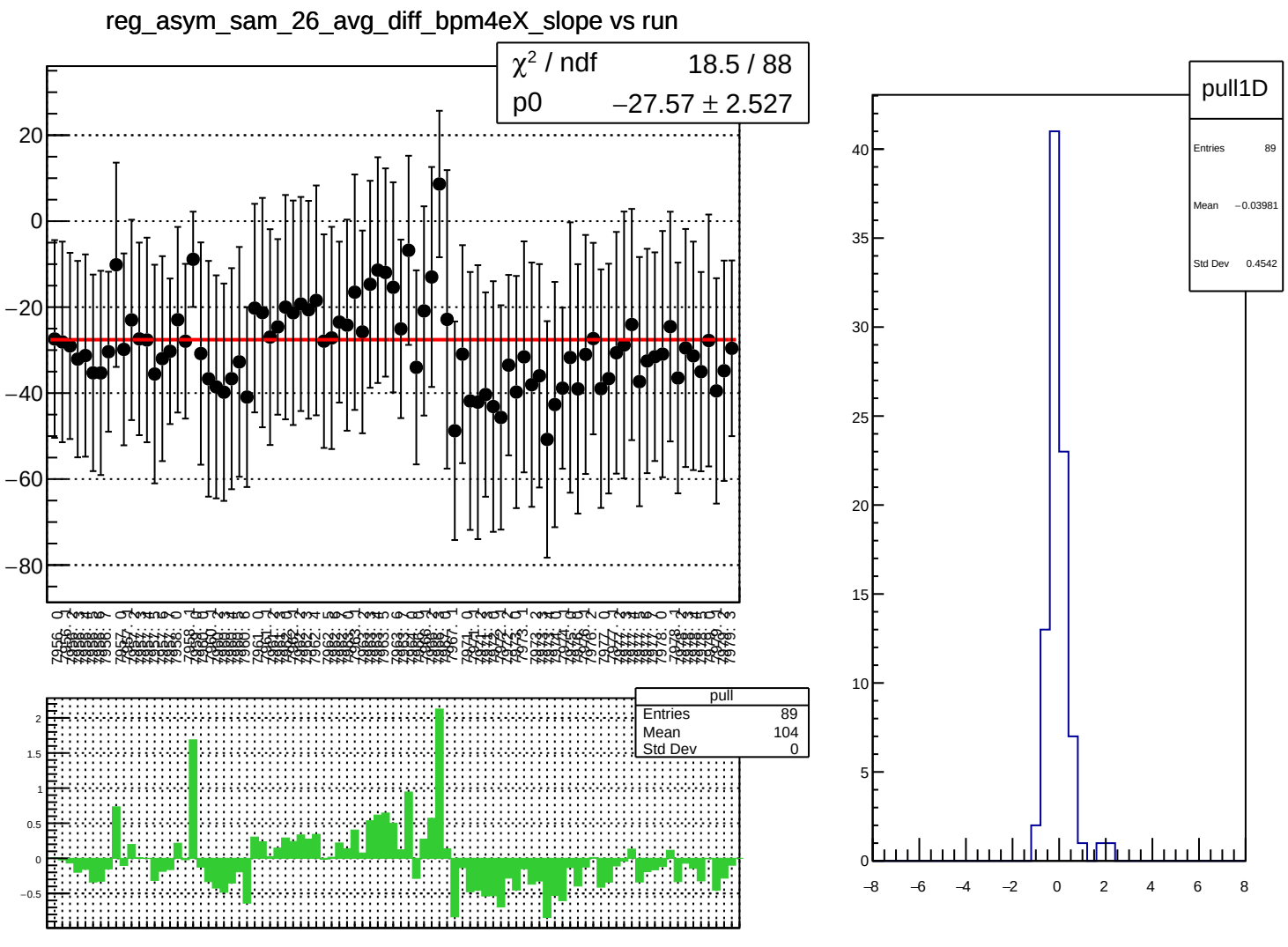

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.215 / 88
p0 20.57 ± 2.124
pull
Entries 89
Mean −270.7
Std Dev 0
pull1D
Entries 89
Mean 0.004669
Std Dev 0.242

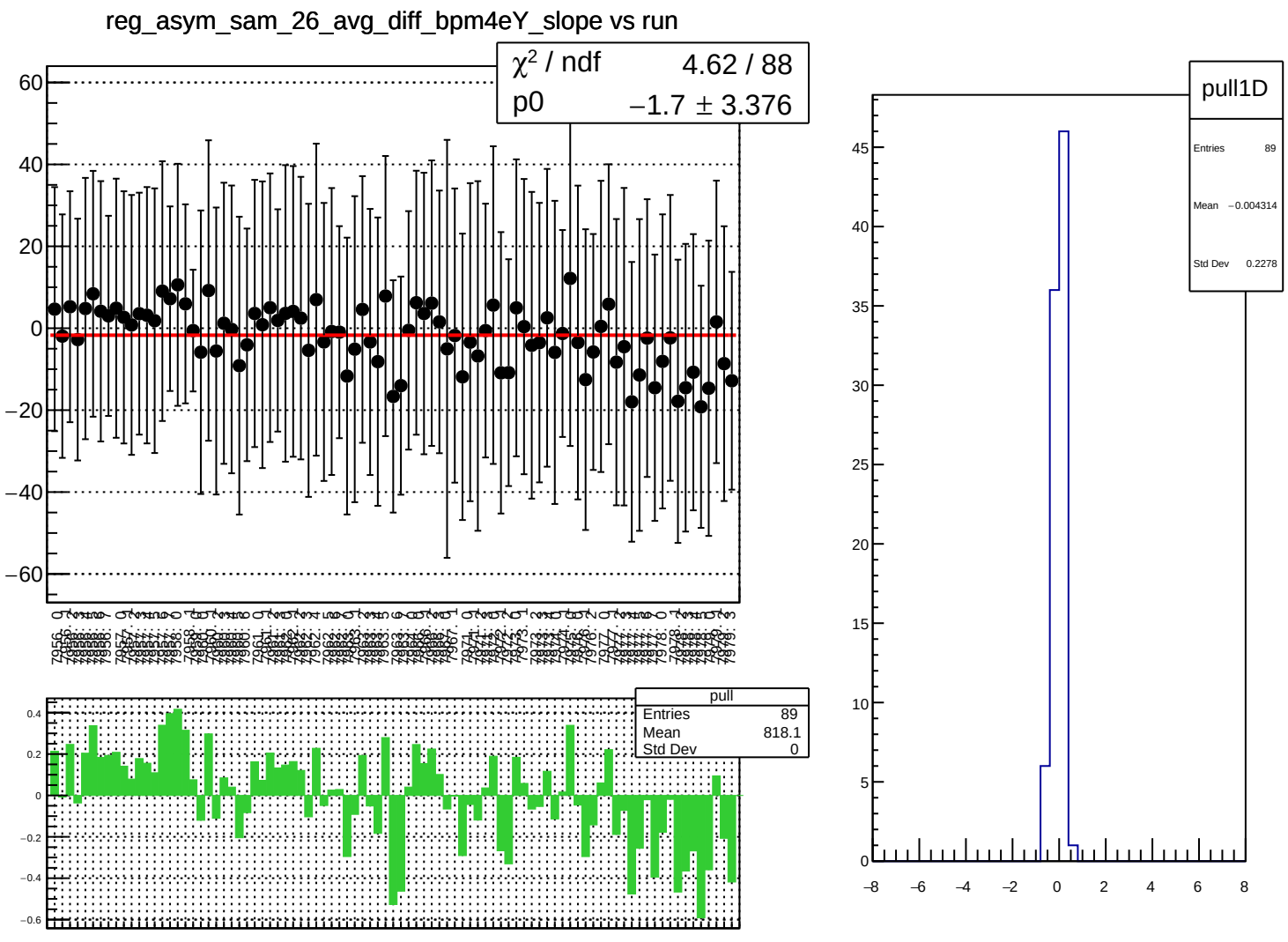

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 23.67 / 88
p0 −0.4963 ± 0.06084
pull
Entries 89
Mean 120.1
Std Dev 0

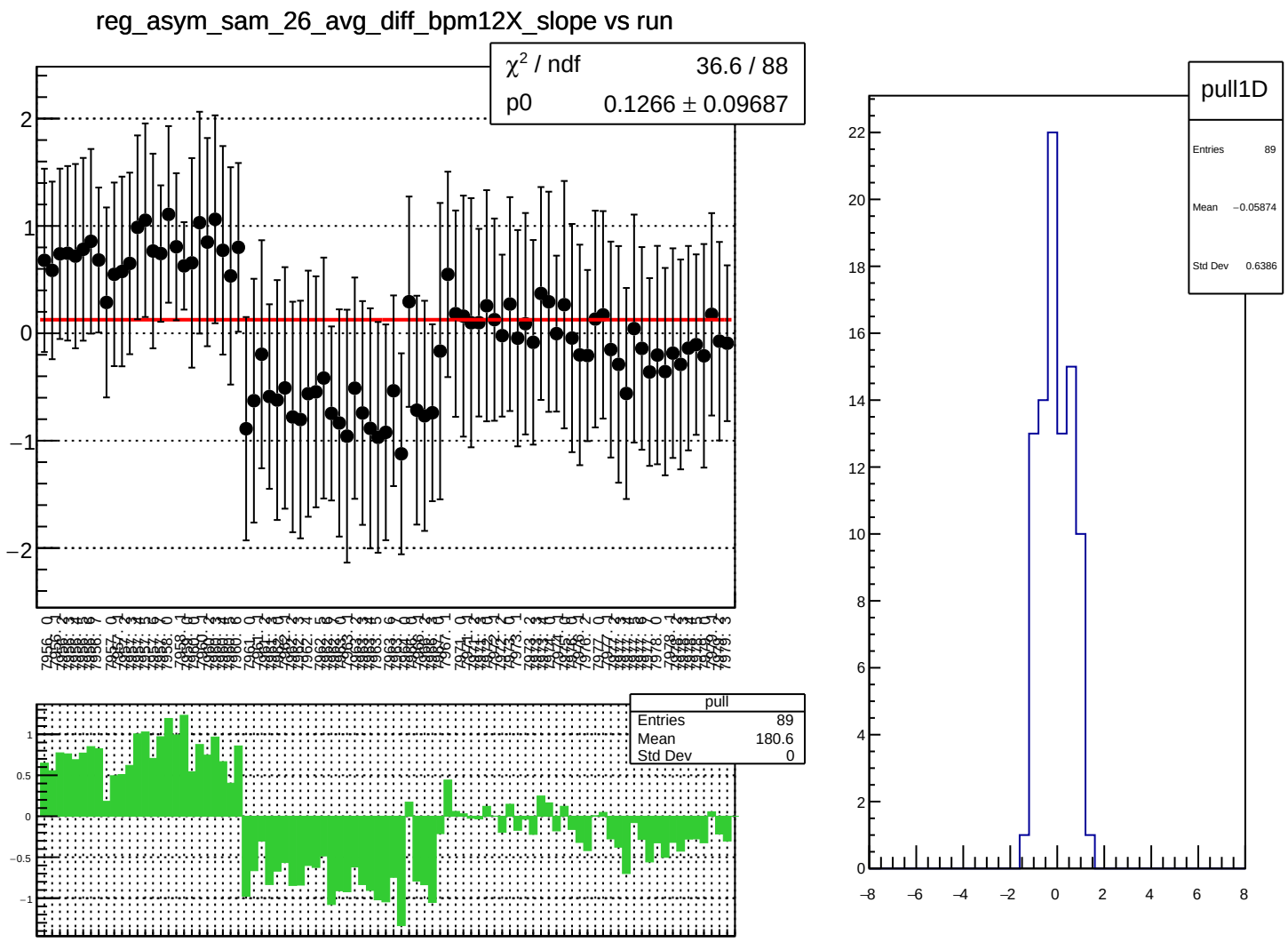

pull1D
Entries 89
Mean −0.0687
Std Dev 0.5111

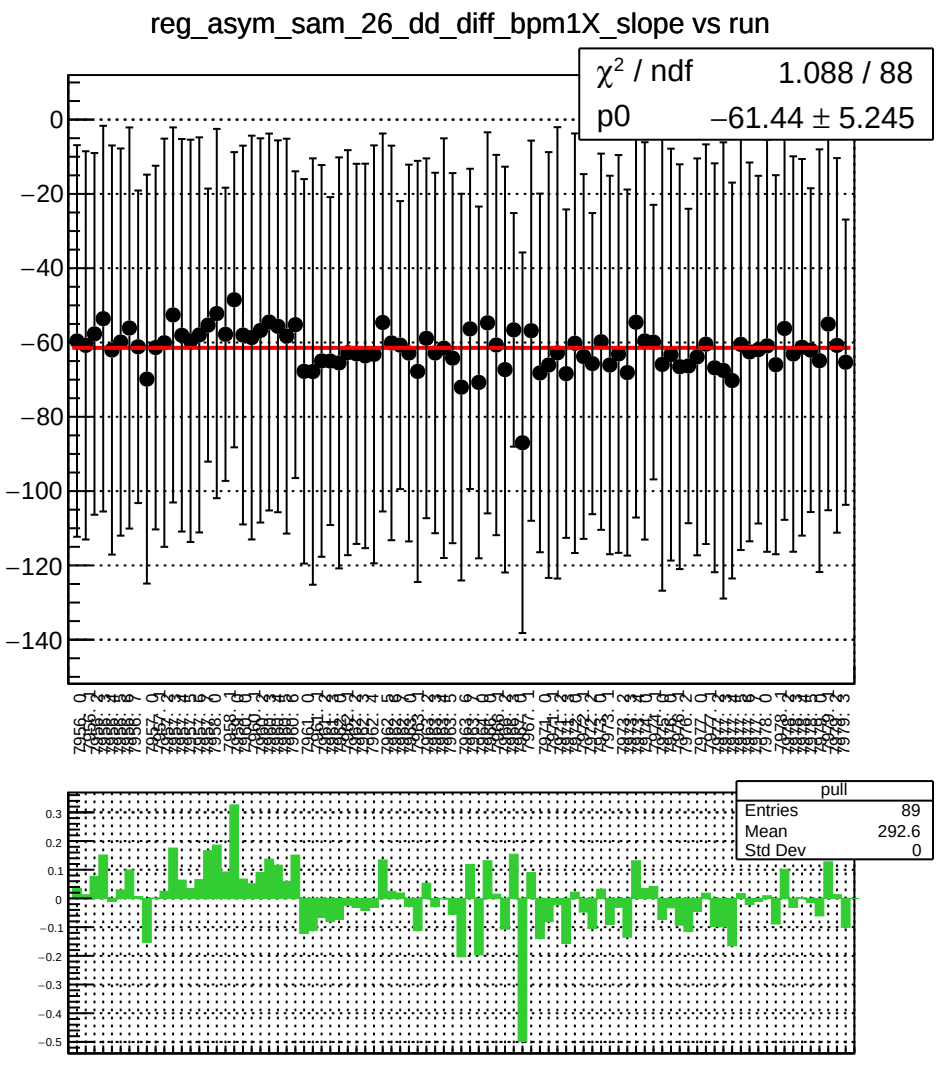

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 30.32 / 88
p0 −54.97 ± 2.849
pull
Entries 89
Mean 109.6
Std Dev 0
pull1D
Entries 89
Mean −0.02707
Std Dev 0.583

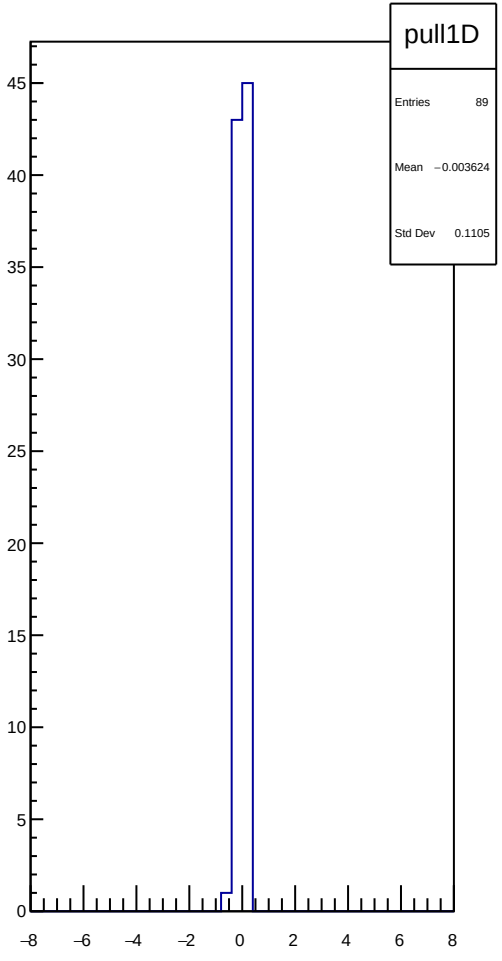

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.358 / 88
p0 −33.06 ± 2.947
pull
Entries 89
Mean 77.38
Std Dev 0
pull1D
Entries 89
Mean −0.03054
Std Dev 0.2655

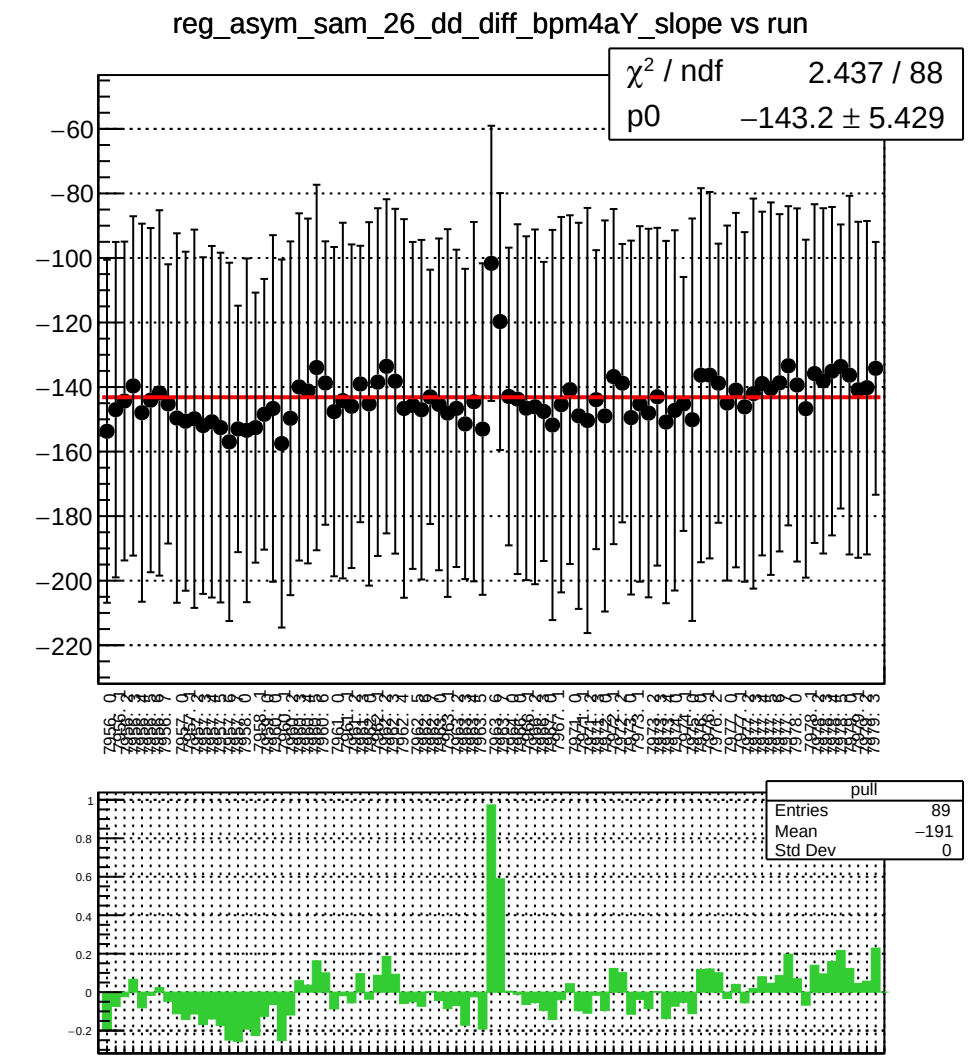

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.5 / 88
p0 −27.57 ± 2.527
pull
Entries 89
Mean 104
Std Dev 0
pull1D
Entries 89
Mean −0.03981
Std Dev 0.4542

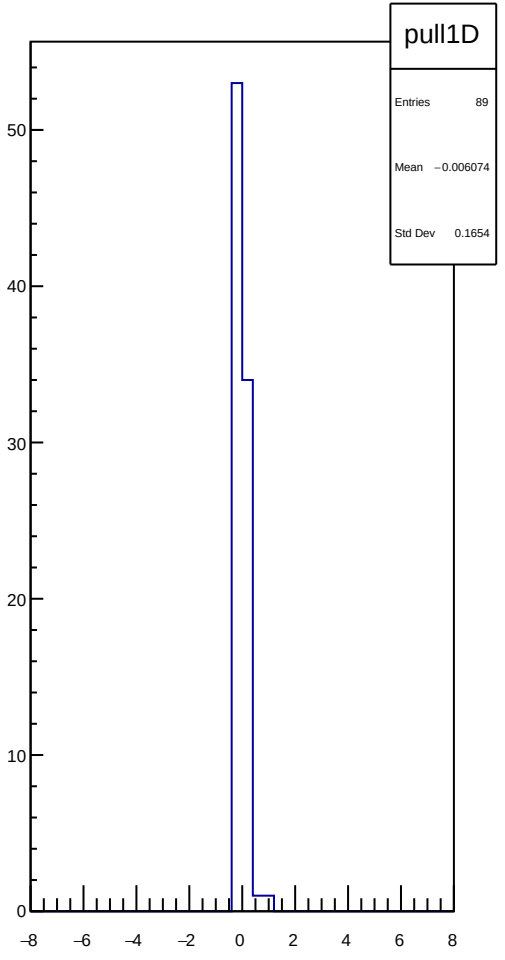

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.62 / 88
p0 −1.7 ± 3.376
pull
Entries 89
Mean 818.1
Std Dev 0
pull1D
Entries 89
Mean −0.004314
Std Dev 0.2278

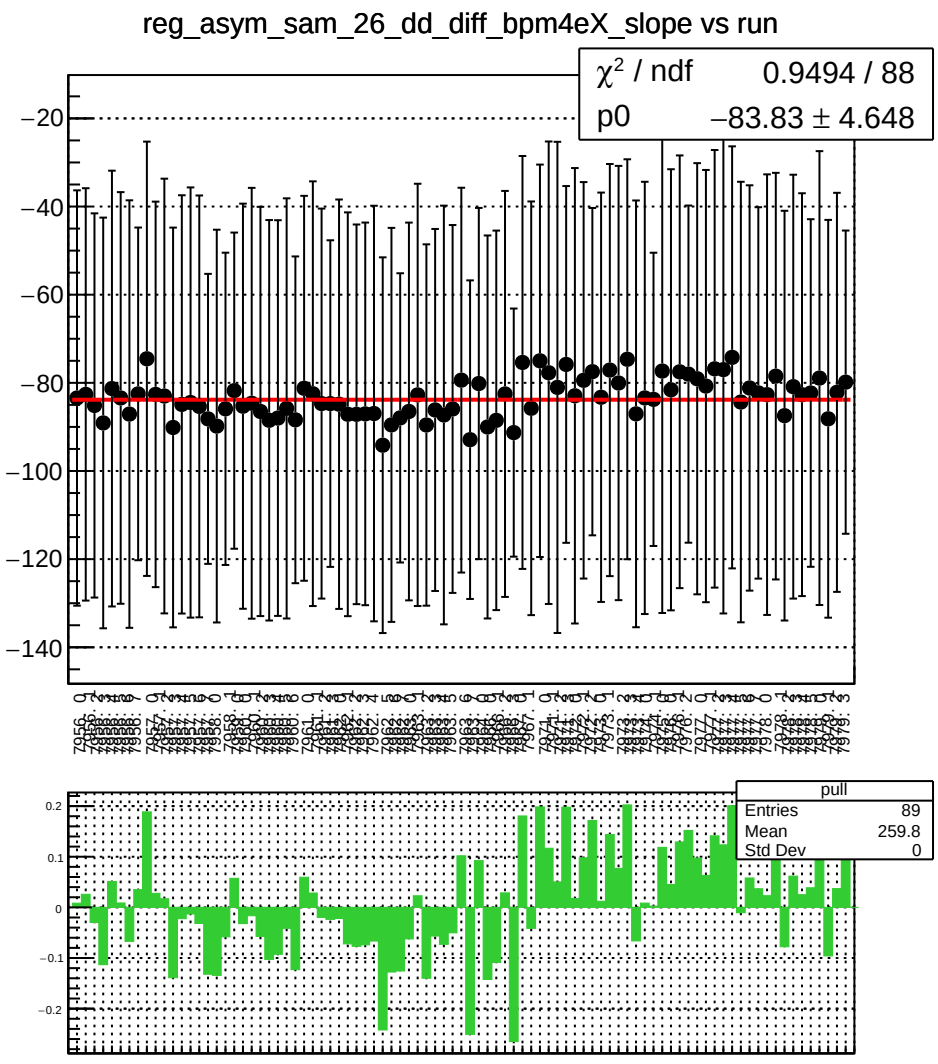

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 36.6 / 88
p0 0.1266 ± 0.09687
pull
Entries 89
Mean 180.6
Std Dev 0
pull1D
Entries 89
Mean −0.05874
Std Dev 0.6386

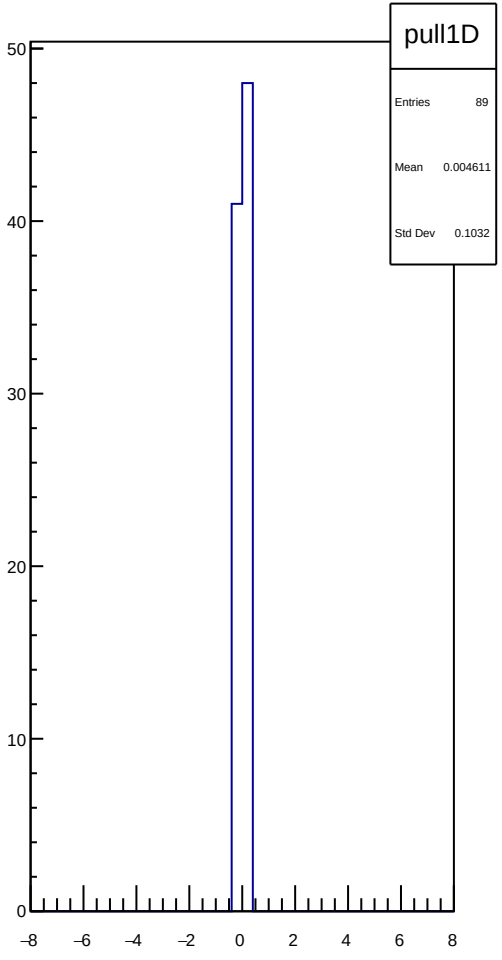

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.088 / 88
p0 −61.44 ± 5.245
pull
Entries 89
Mean 292.6
Std Dev 0

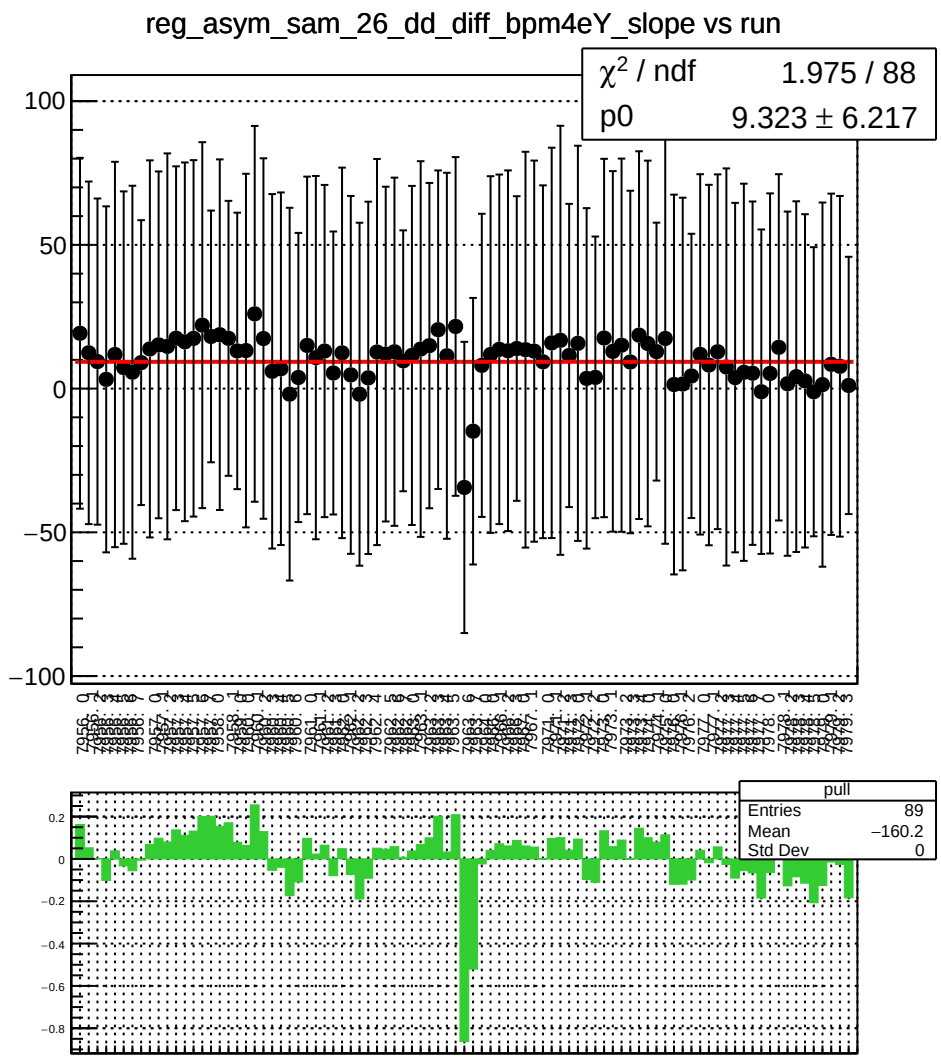

pull1D
Entries 89
Mean −0.003624
Std Dev 0.1105

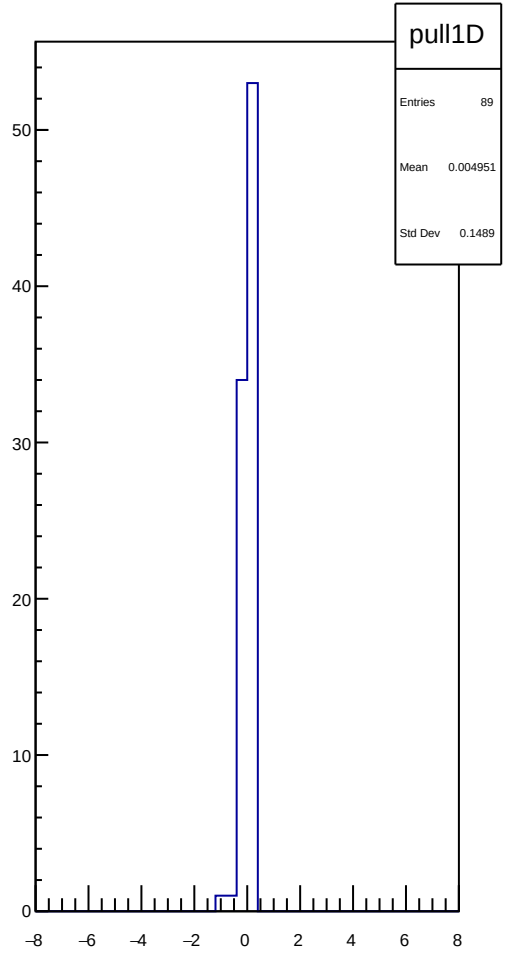

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.437 / 88
p0 −143.2 ± 5.429
pull
Entries 89
Mean −191
Std Dev 0

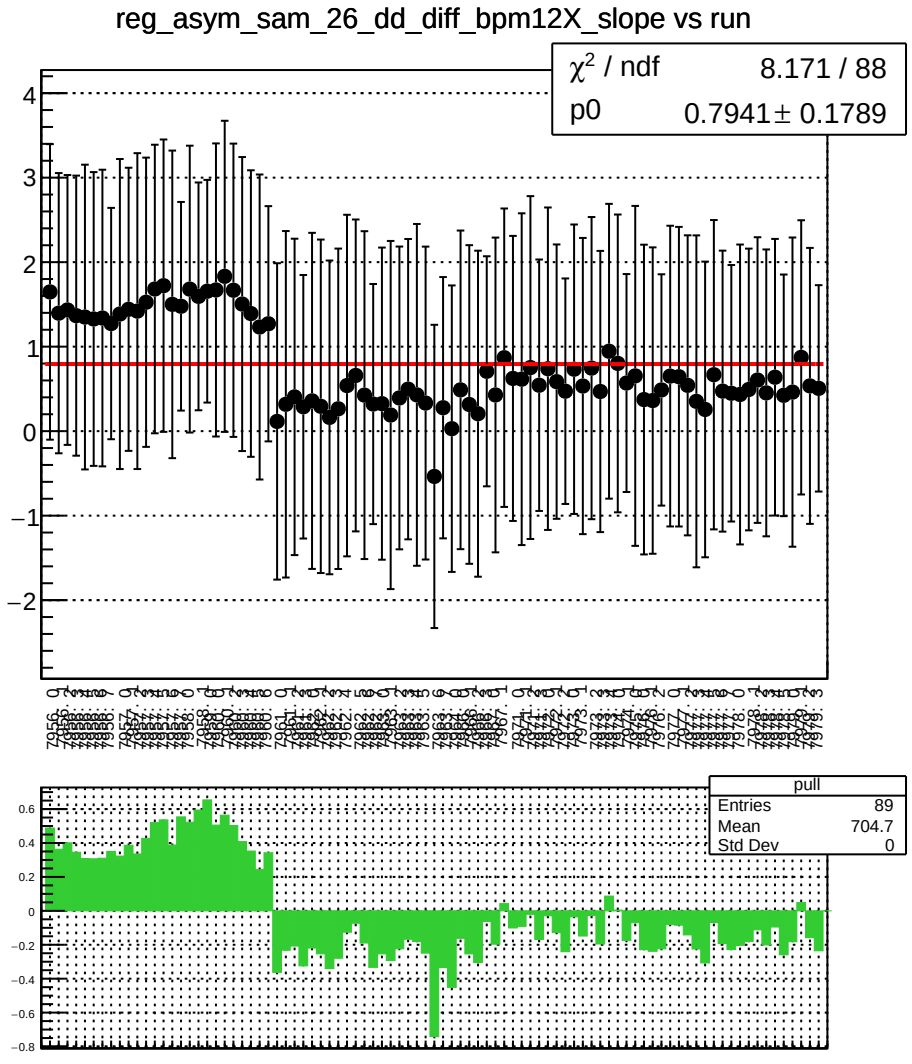

pull1D
Entries 89
Mean −0.006074
Std Dev 0.1654

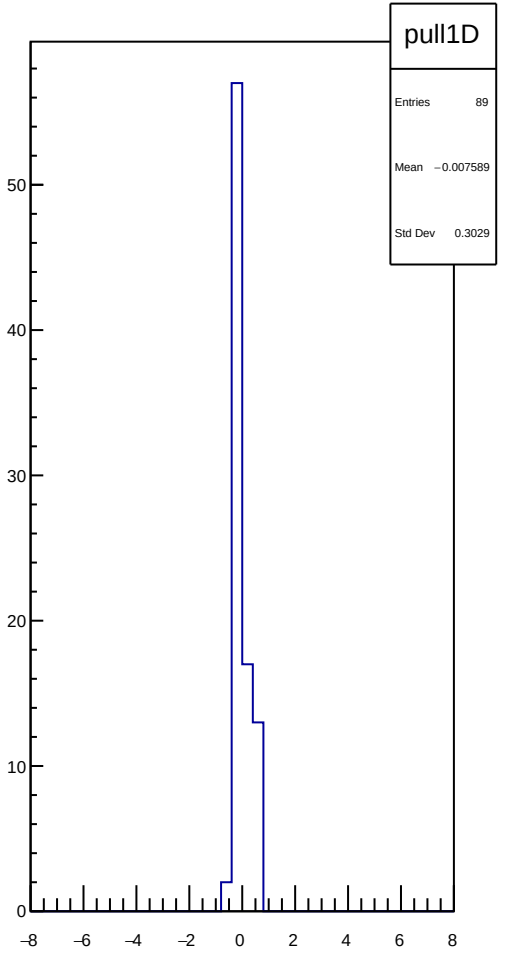

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.9494 / 88
p0 −83.83 ± 4.648
pull
Entries 89
Mean 259.8
Std Dev 0

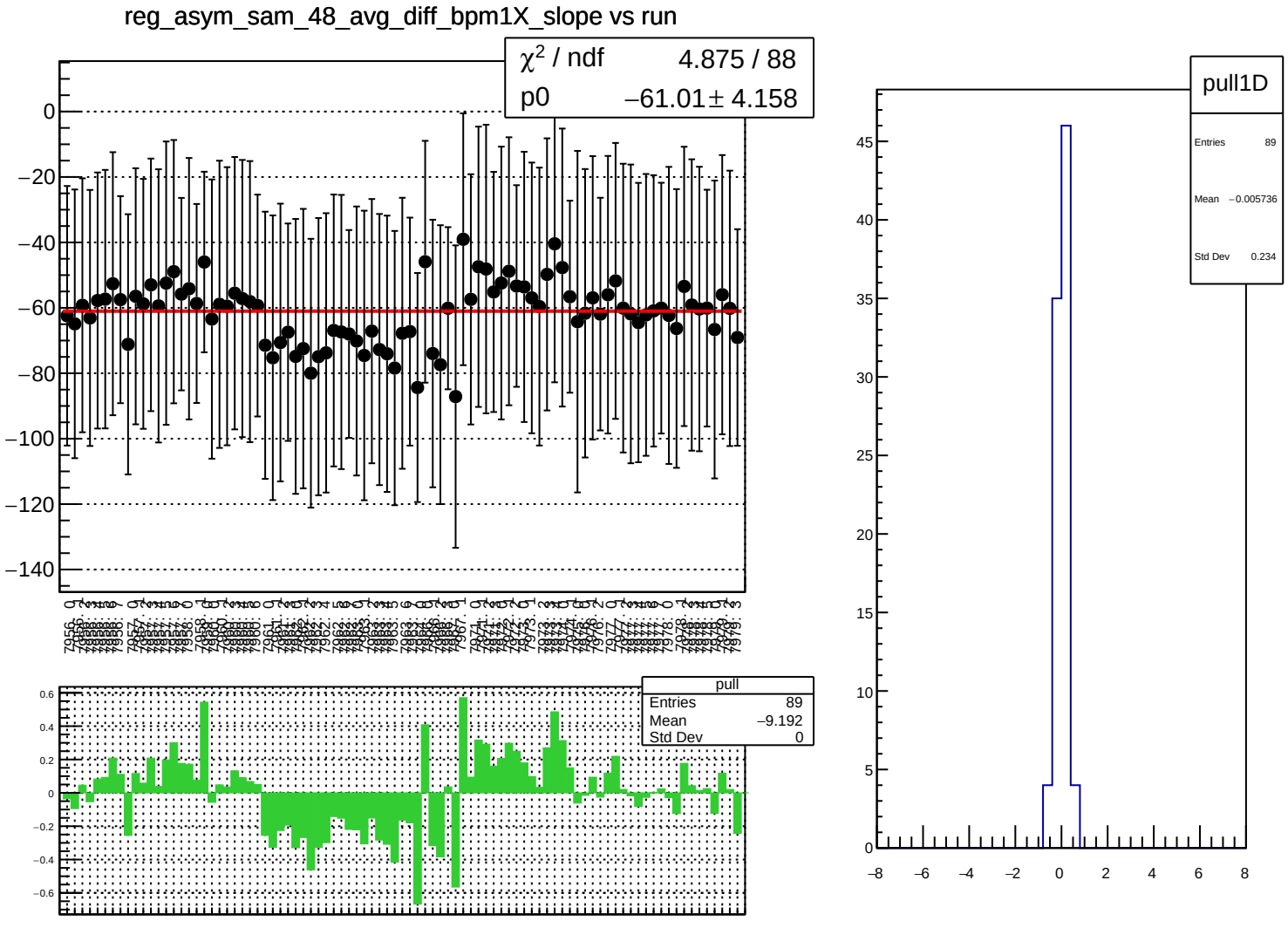

pull1D
Entries 89
Mean 0.004611
Std Dev 0.1032

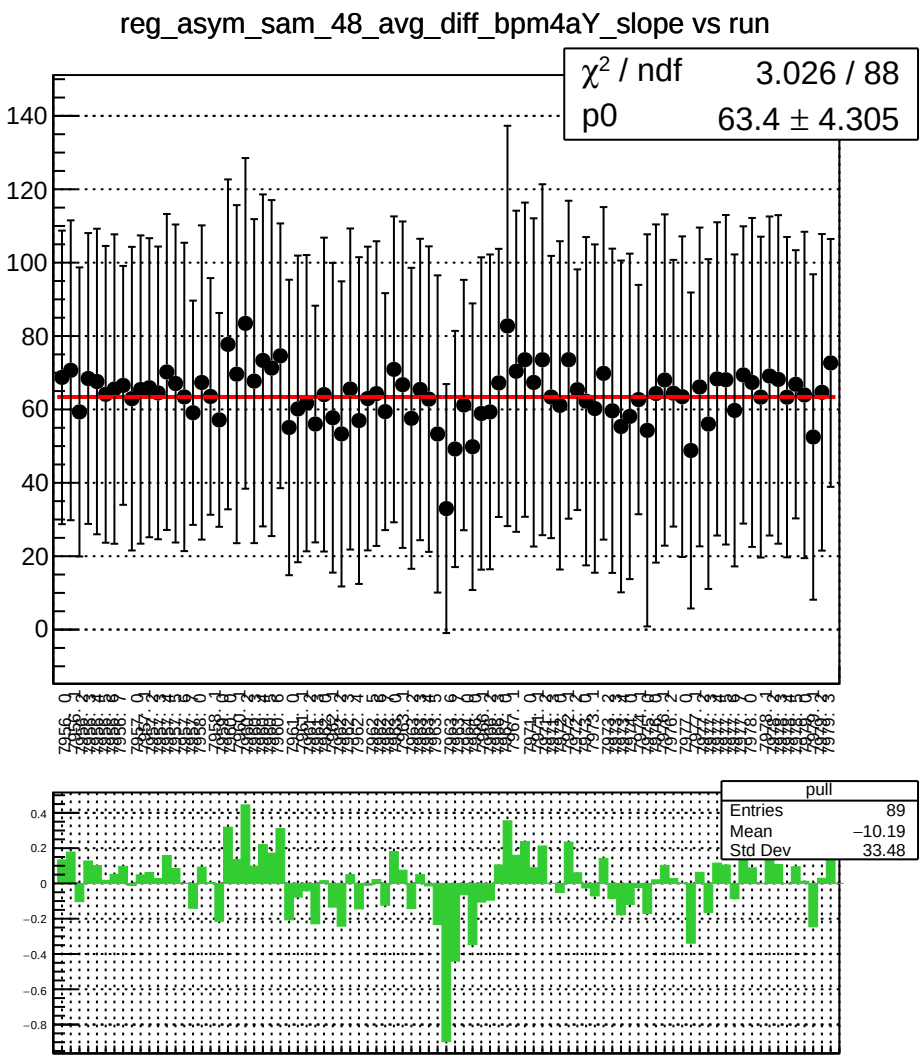

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.975 / 88
p0 9.323 ± 6.217
100
50
0
−50
−100
pull
Entries 89
Mean −160.2
Std Dev 0
0.2
0
−0.2
−0.4
−0.6
−0.8

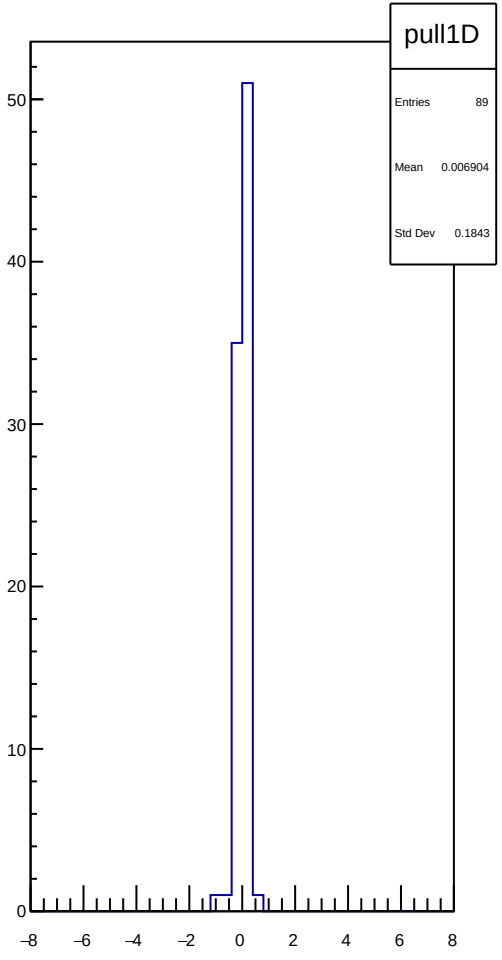

pull1D
Entries 89
Mean 0.004951
Std Dev 0.1489
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

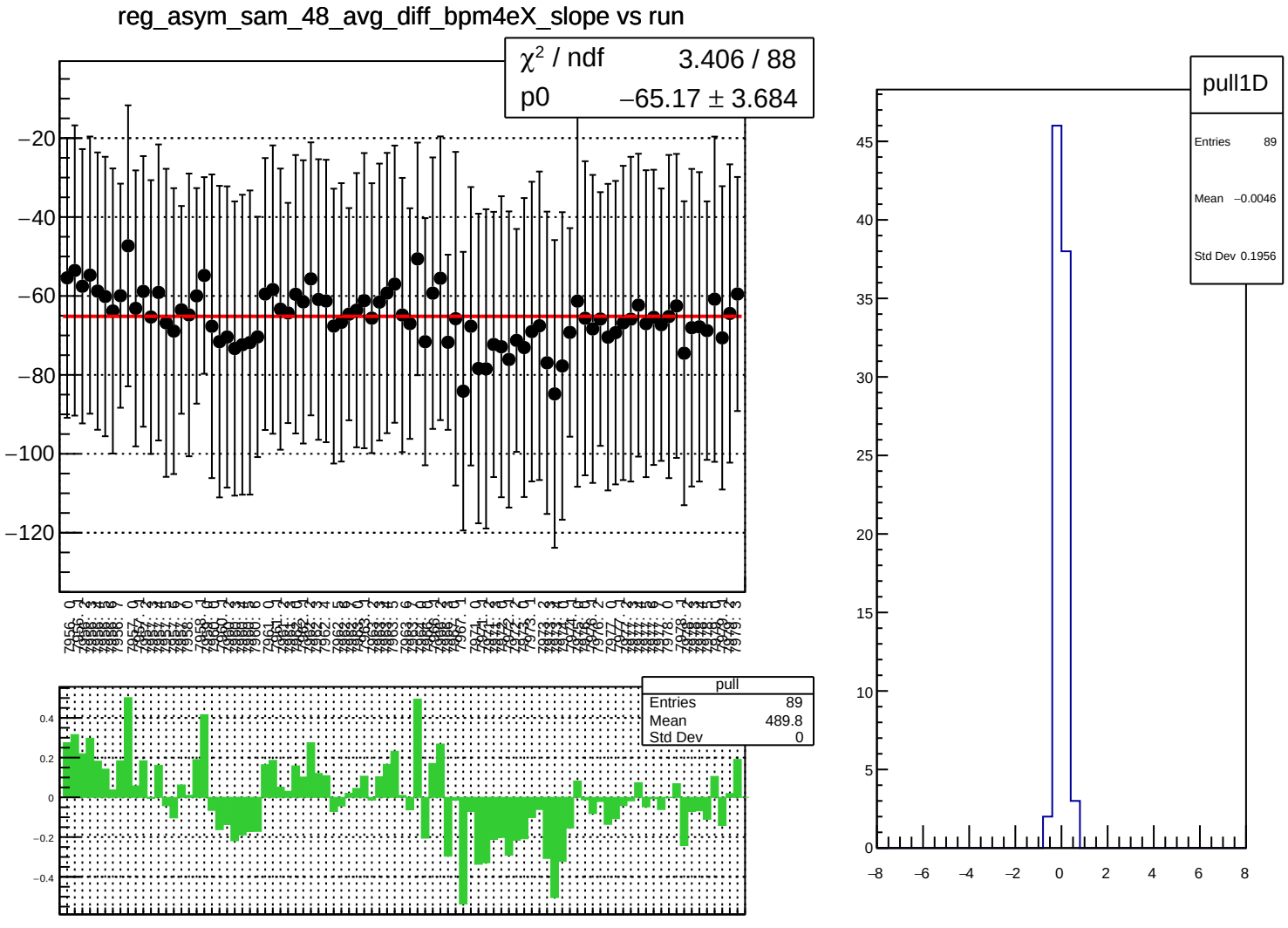

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 8.171 / 88
p0 0.7941 ± 0.1789
pull
Entries 89
Mean 704.7
Std Dev 0

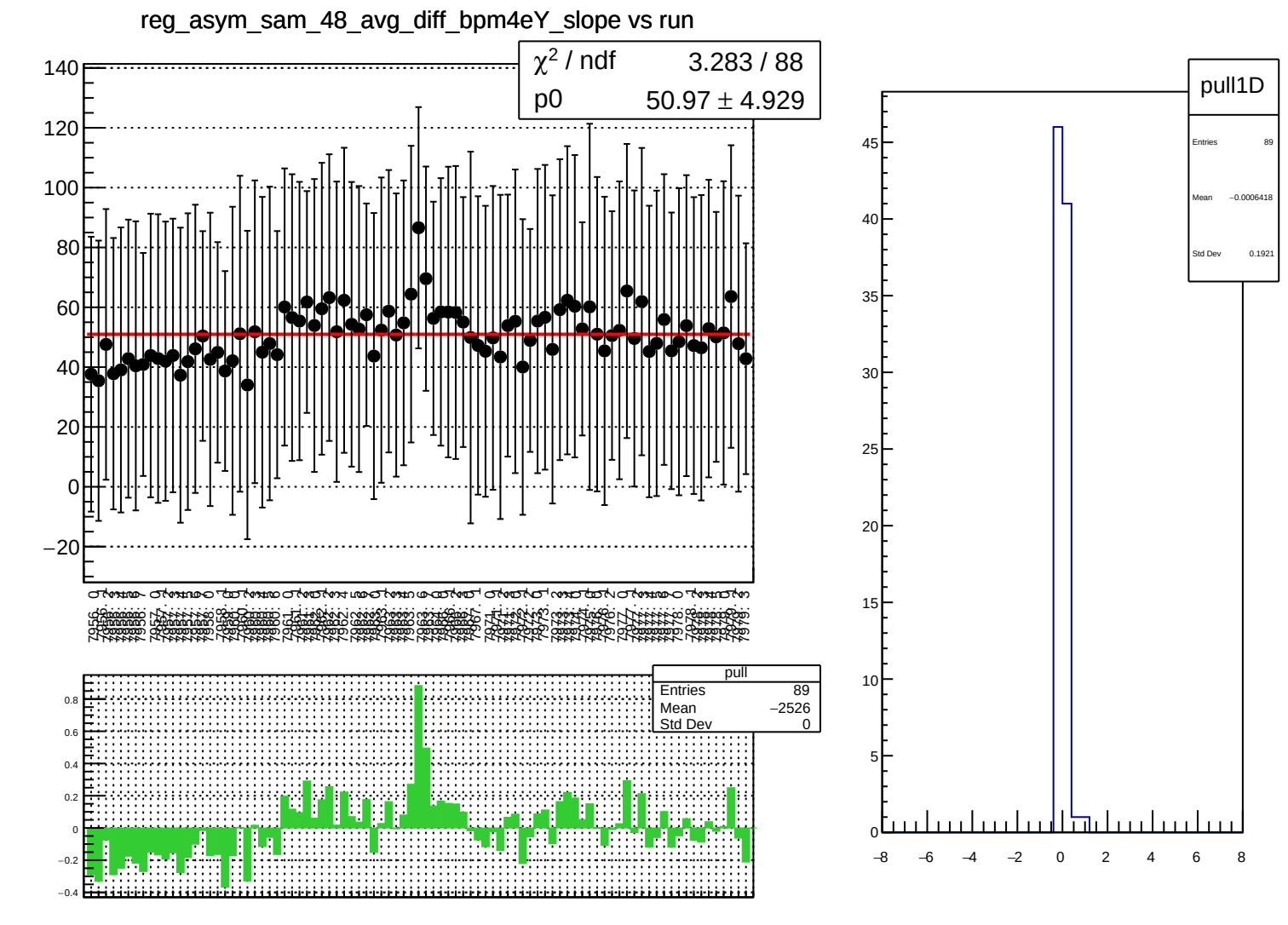

pull1D
Entries 89
Mean −0.007589
Std Dev 0.3029

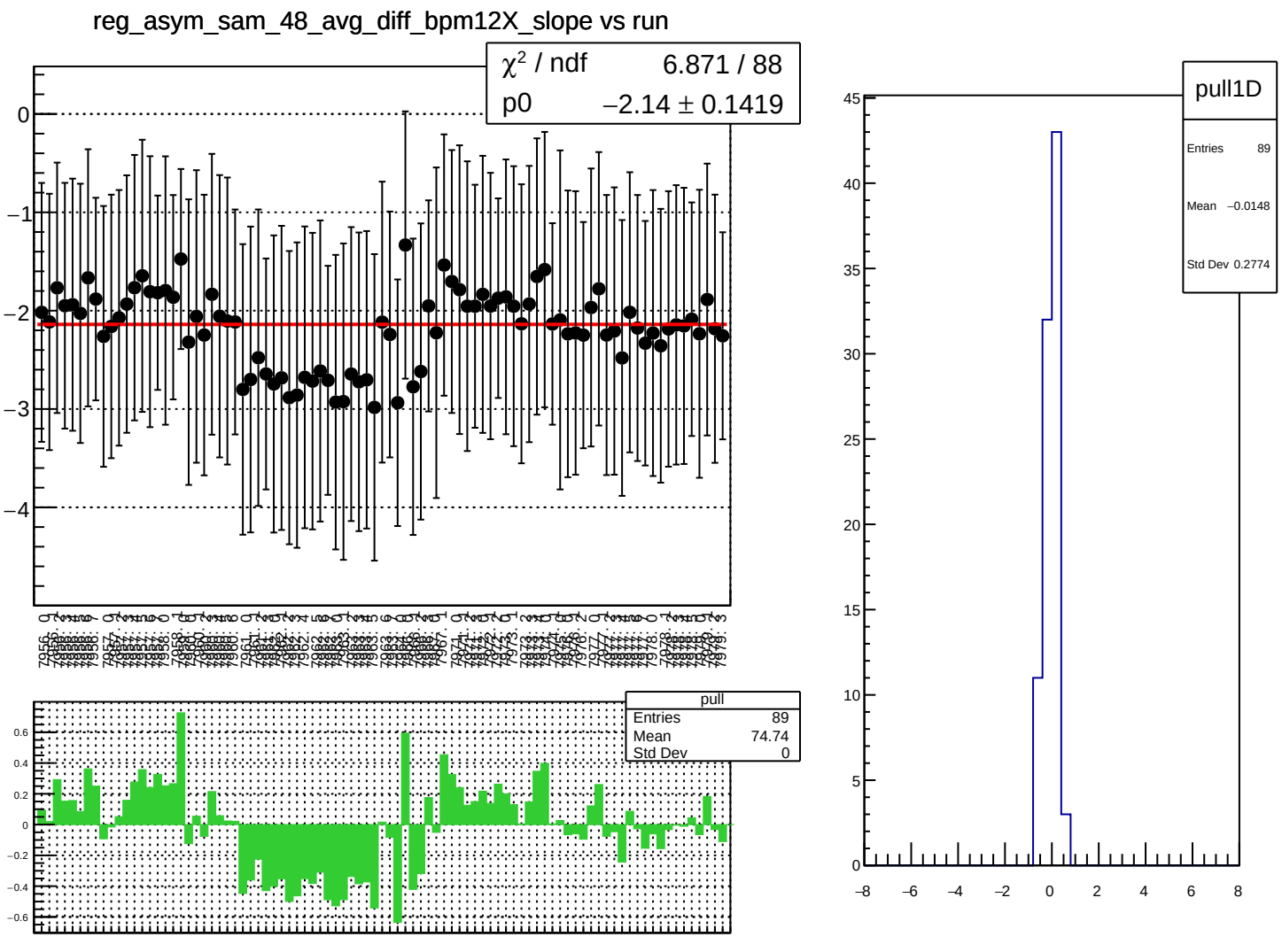

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 4.875 / 88
p0 −61.01 ± 4.158
pull
Entries 89
Mean −9.192
Std Dev 0
pull1D
Entries 89
Mean −0.005736
Std Dev 0.234

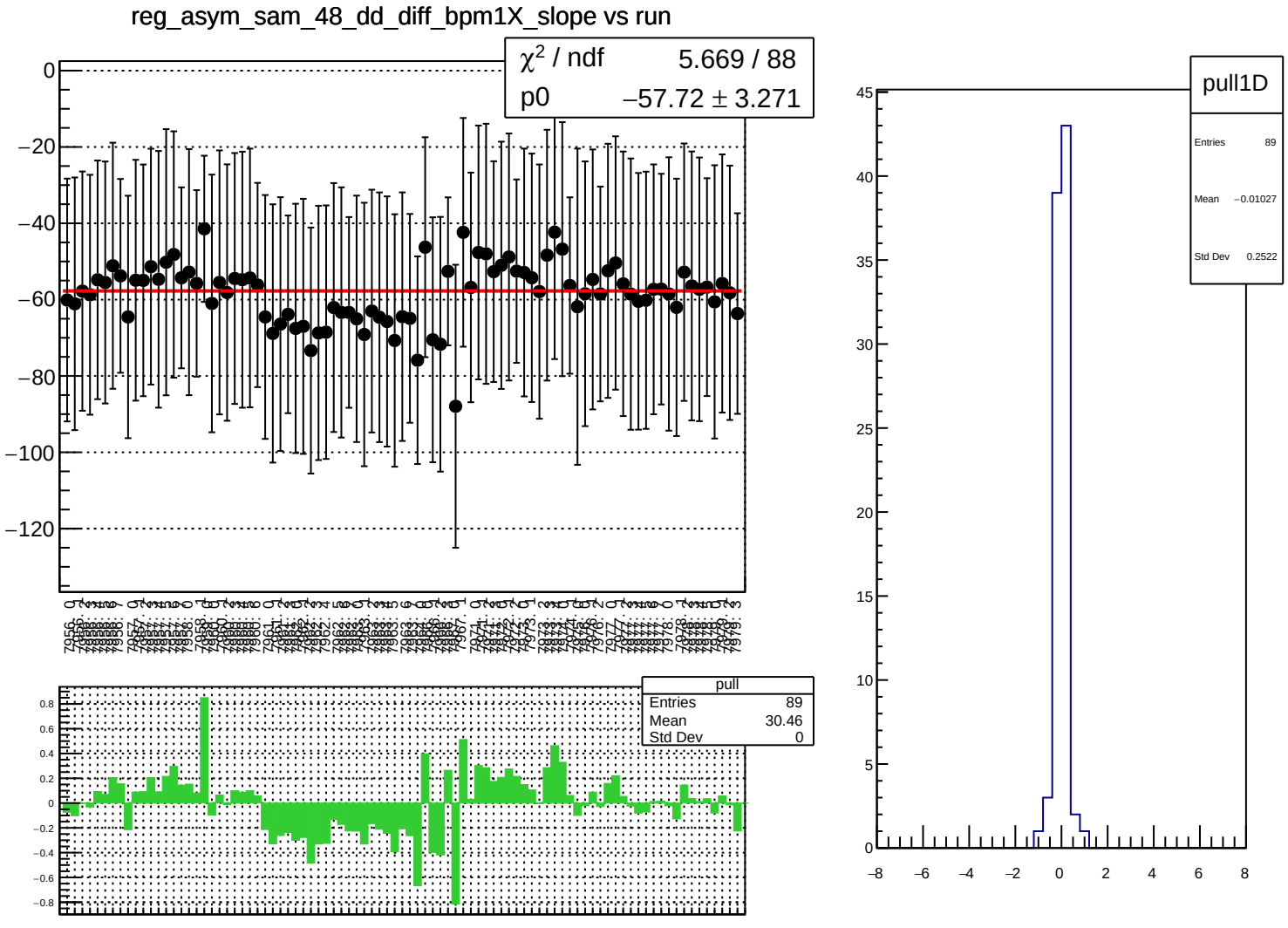

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.026 / 88
p0 63.4 ± 4.305
pull
Entries 89
Mean −10.19
Std Dev 33.48

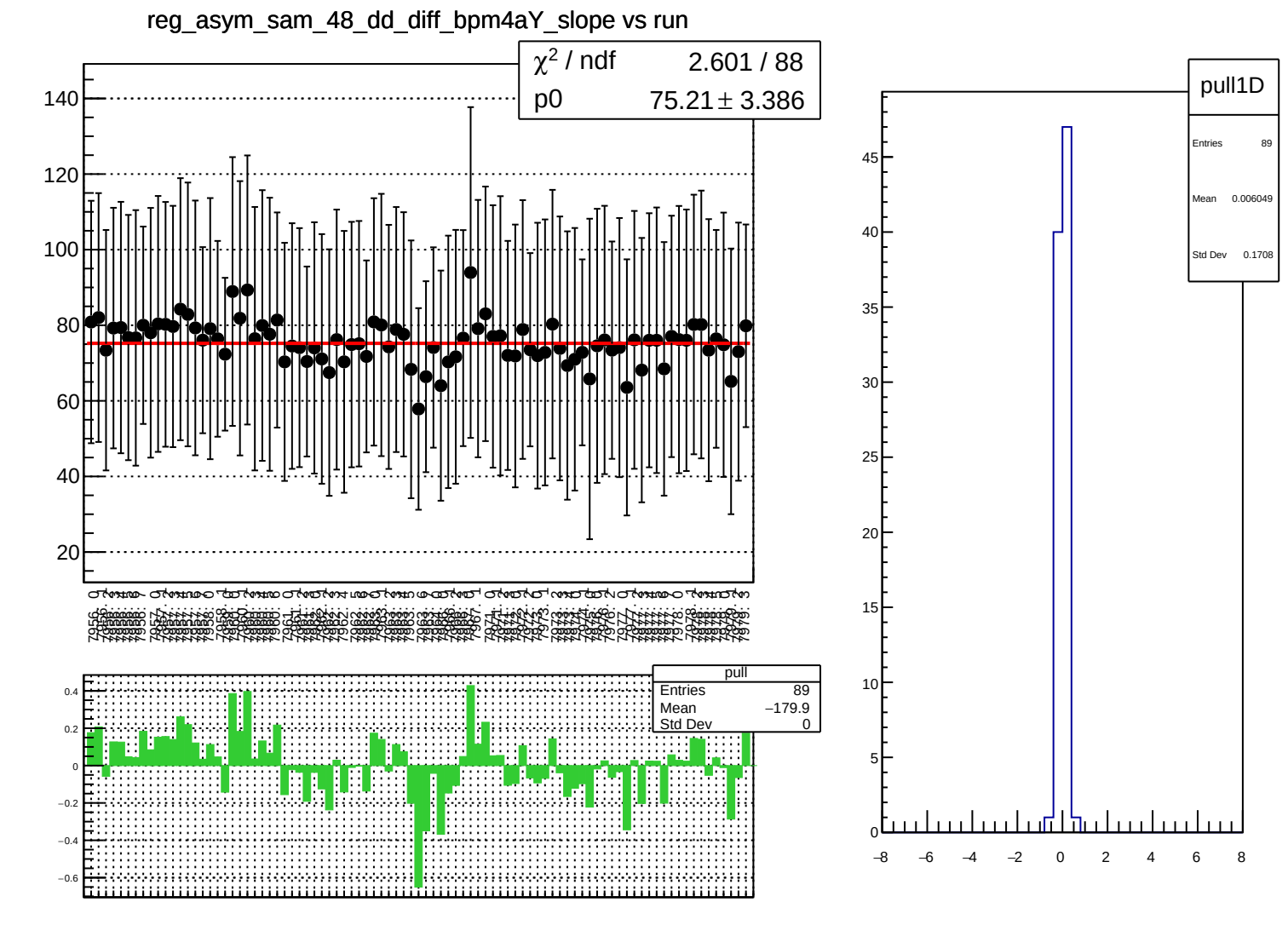

pull1D
Entries 89
Mean 0.006904
Std Dev 0.1843

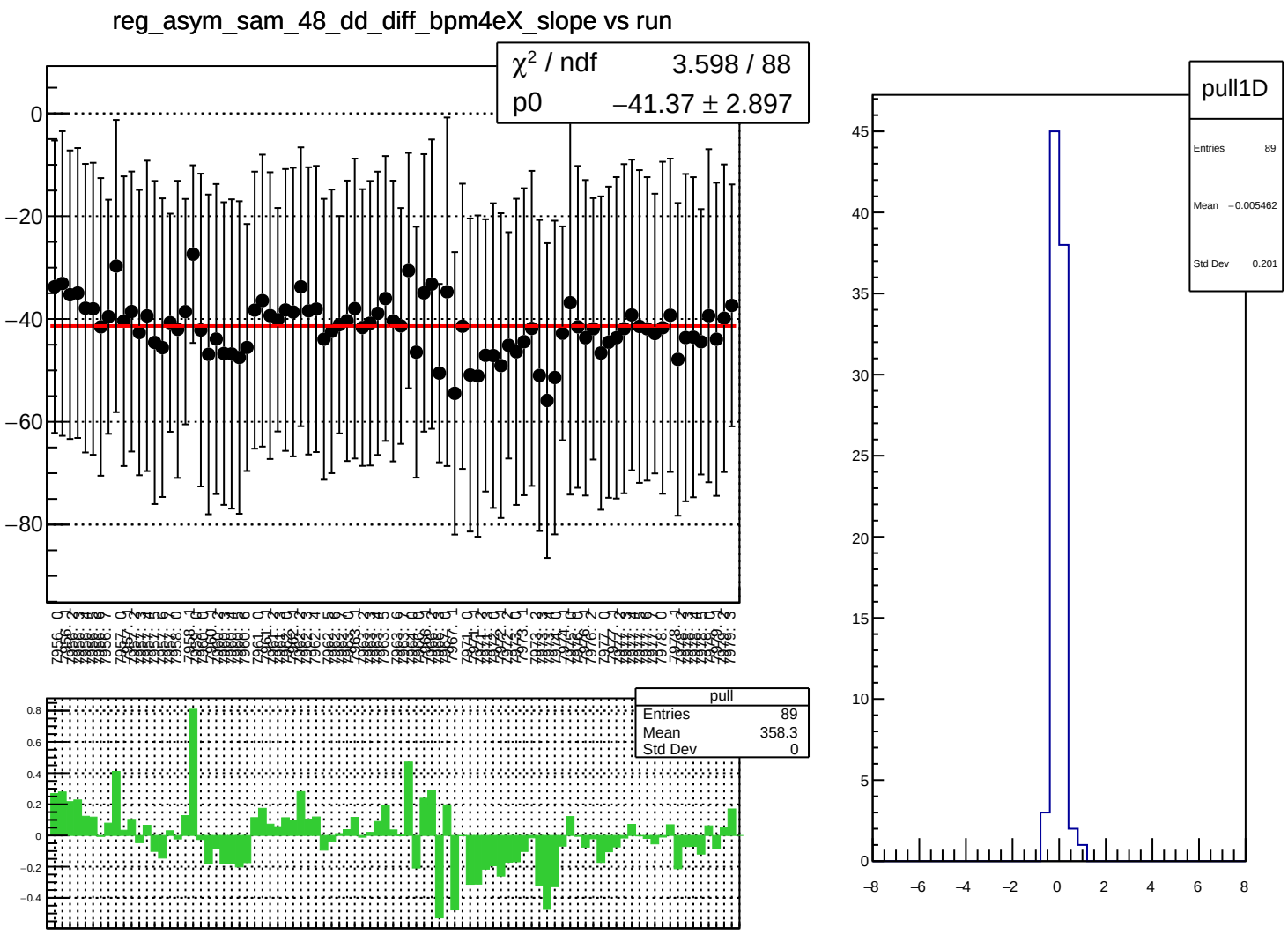

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.406 / 88
p0 −65.17 ± 3.684
−20
−40
−60
−80
−100
−120
pull
Entries 89
Mean 489.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 89
Mean −0.0046
Std Dev 0.1956
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

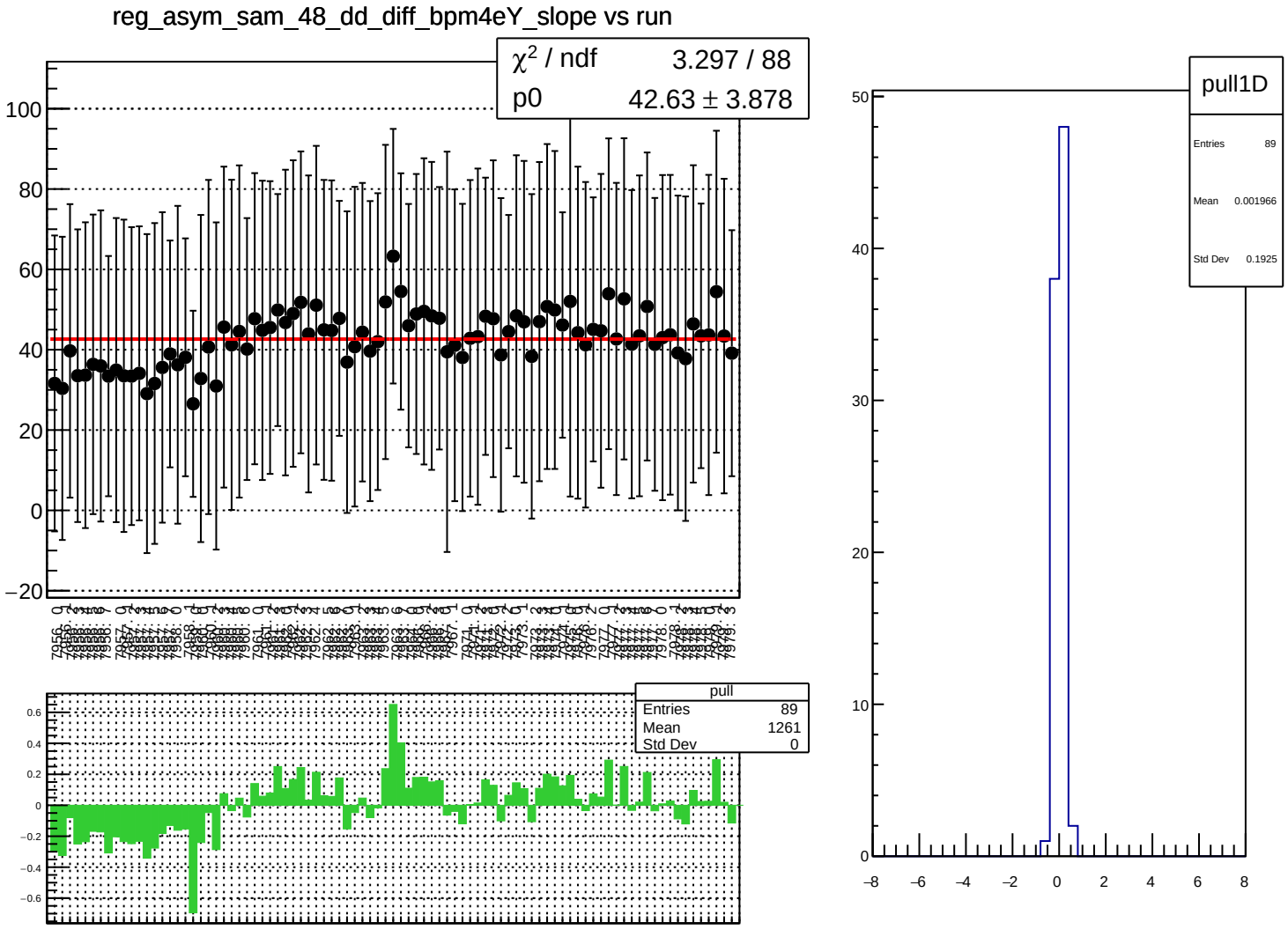

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.283 / 88
p0 50.97 ± 4.929
pull
Entries 89
Mean −2526
Std Dev 0
pull1D
Entries 89
Mean −0.0006418
Std Dev 0.1921

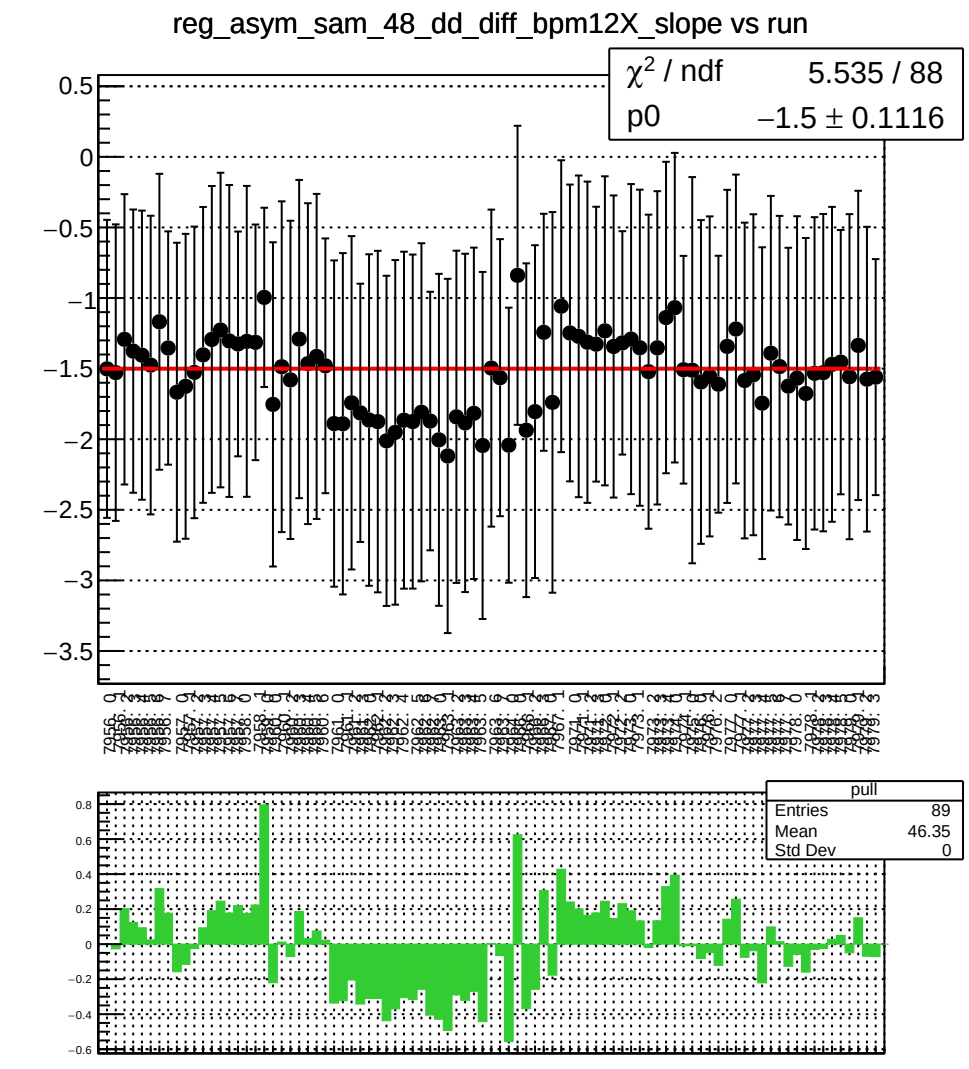

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 6.871 / 88
p0 −2.14 ± 0.1419
pull
Entries 89
Mean 74.74
Std Dev 0
pull1D
Entries 89
Mean −0.0148
Std Dev 0.2774

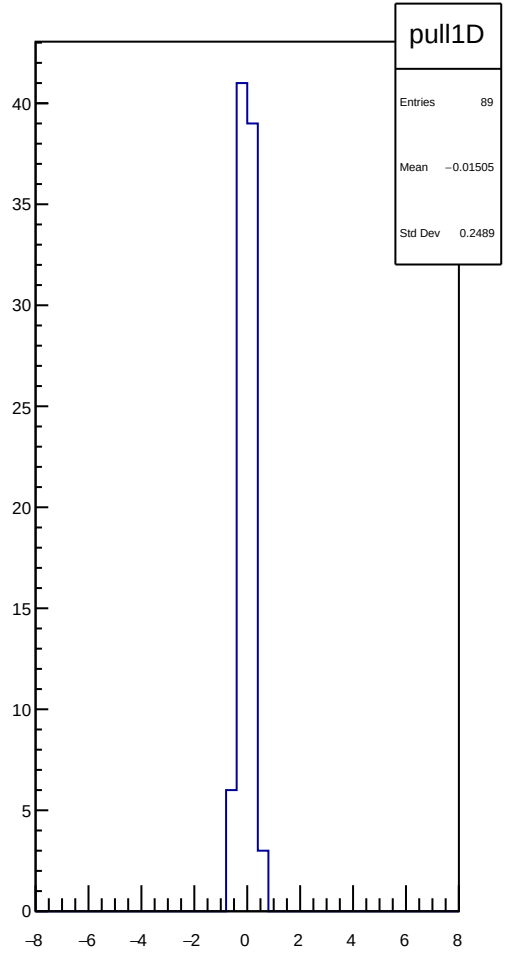

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.669 / 88
p0 −57.72 ± 3.271
pull
Entries 89
Mean 30.46
Std Dev 0
pull1D
Entries 89
Mean −0.01027
Std Dev 0.2522

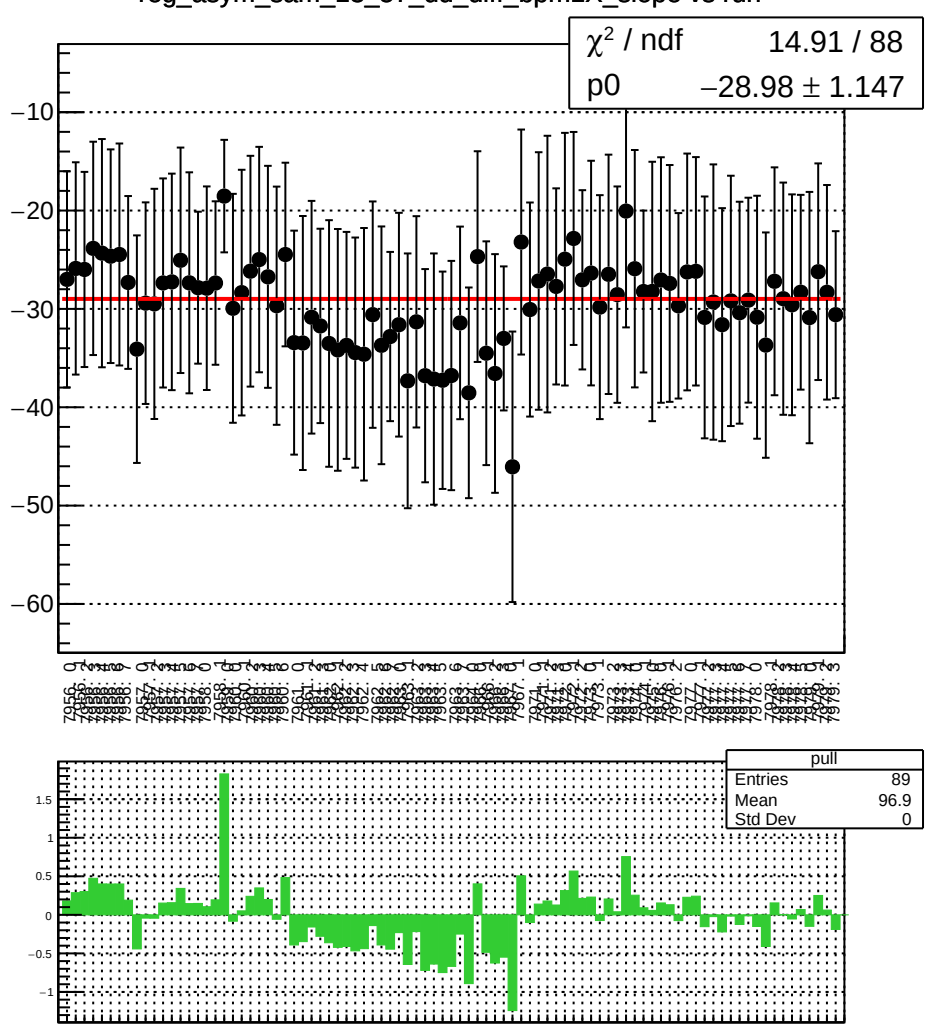

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.601 / 88
p0 75.21 ± 3.386
pull
Entries 89
Mean −179.9
Std Dev 0
pull1D
Entries 89
Mean 0.006049
Std Dev 0.1708

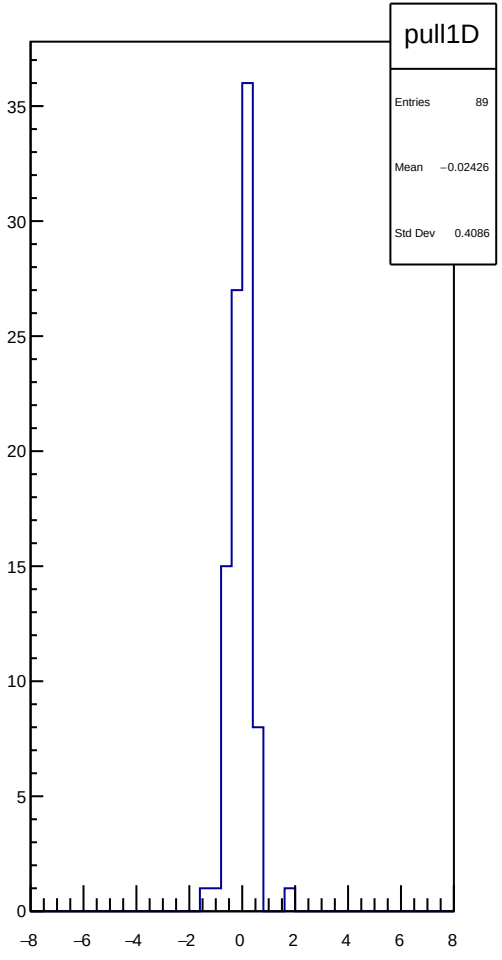

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.598 / 88
p0 −41.37 ± 2.897
pull
Entries 89
Mean 358.3
Std Dev 0
pull1D
Entries 89
Mean −0.005462
Std Dev 0.201

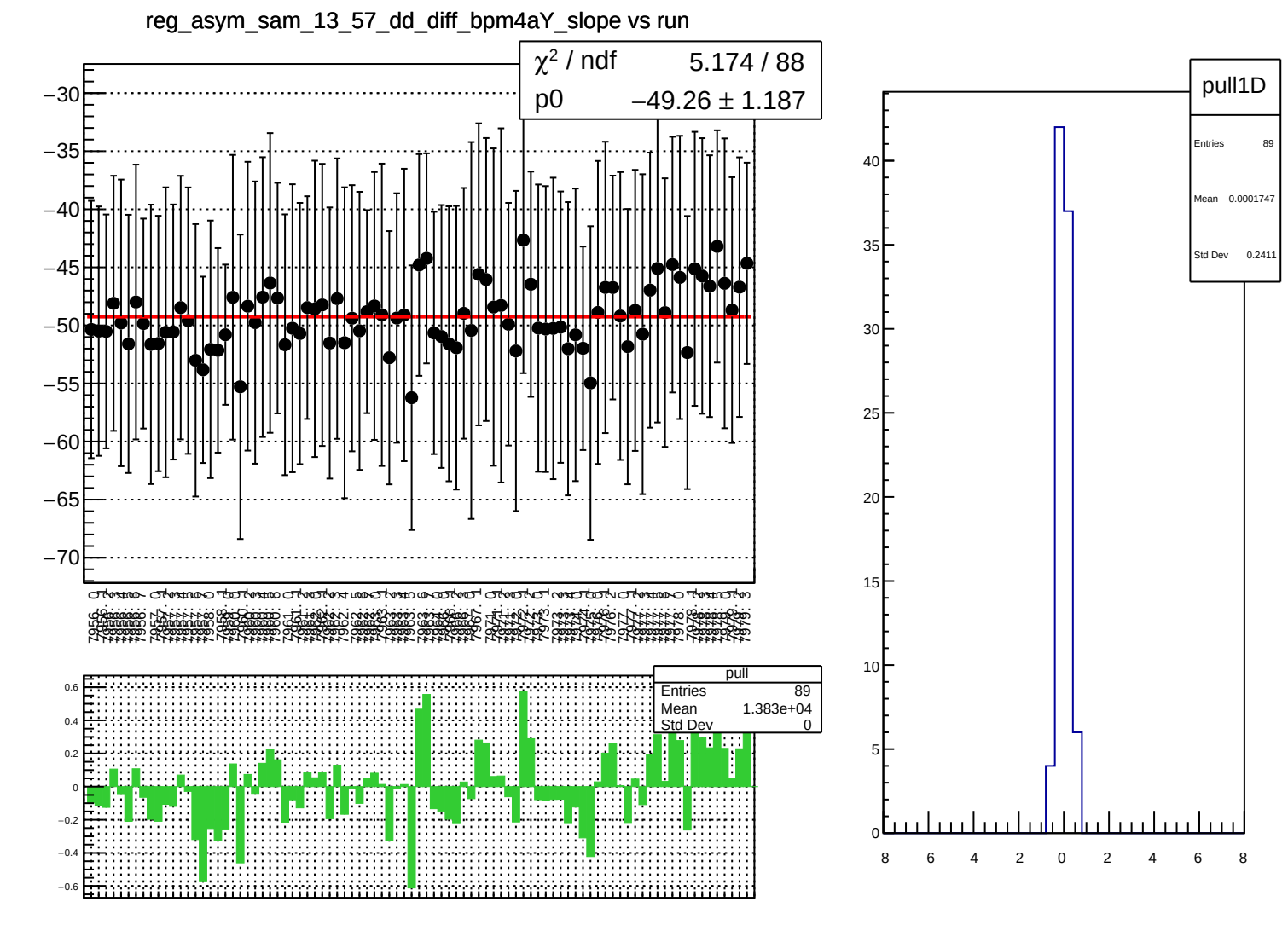

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.297 / 88
p0 42.63 ± 3.878
pull
Entries 89
Mean 1261
Std Dev 0
pull1D
Entries 89
Mean 0.001966
Std Dev 0.1925

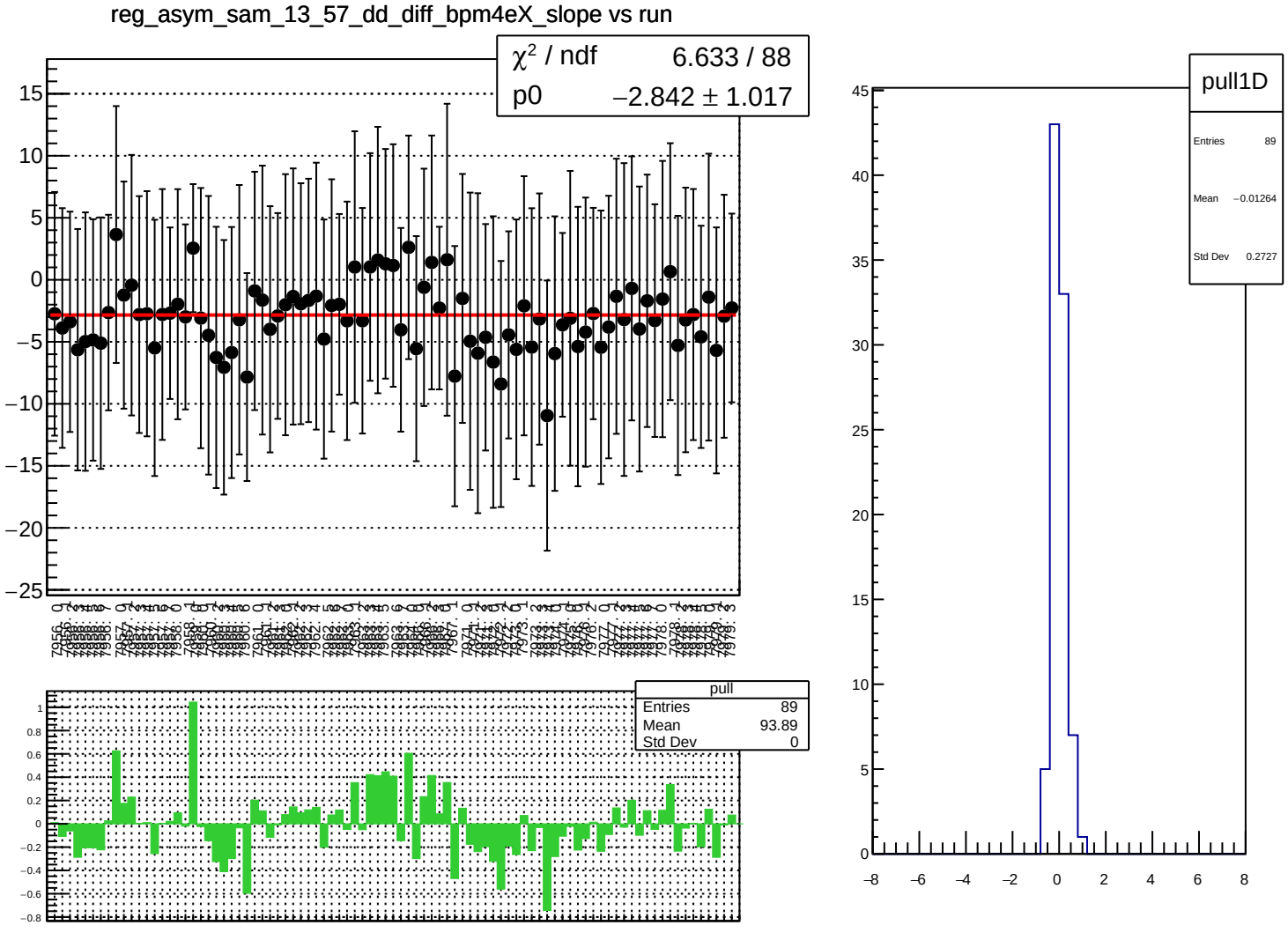

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.535 / 88
p0 −1.5 ± 0.1116
pull
Entries 89
Mean 46.35
Std Dev 0

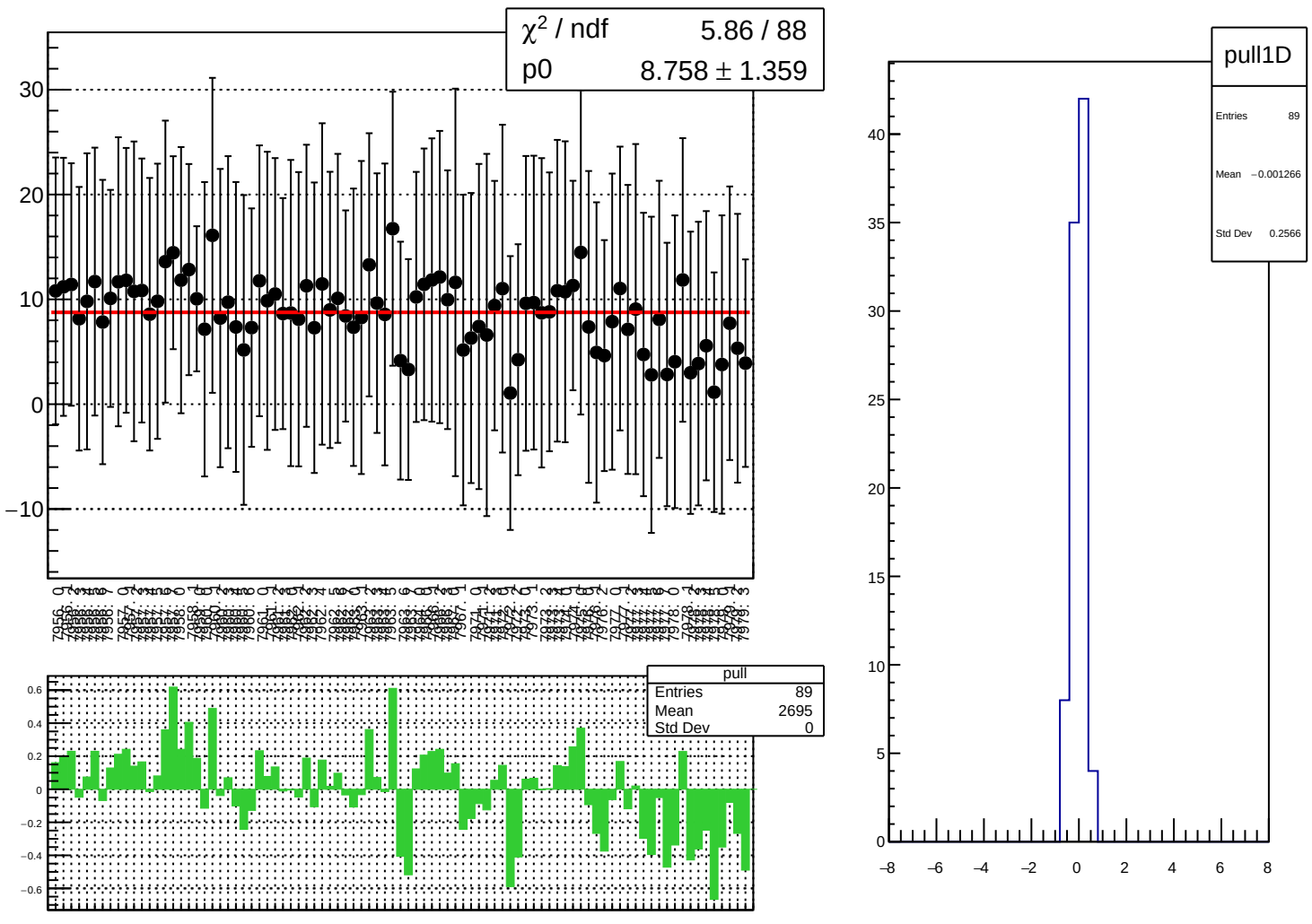

pull1D
Entries 89
Mean −0.01505
Std Dev 0.2489

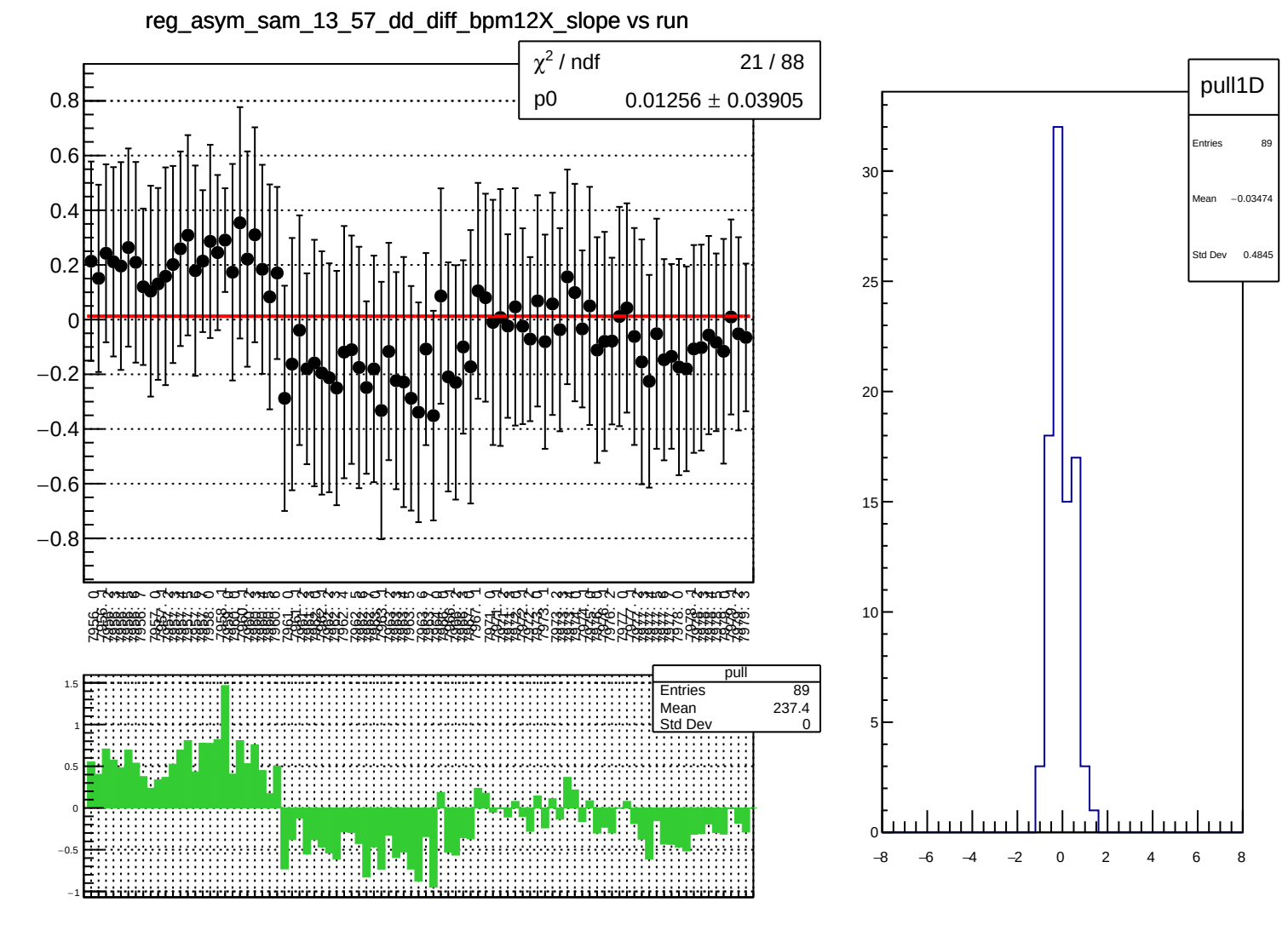

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 14.91 / 88
p0 −28.98 ± 1.147
pull
Entries 89
Mean 96.9
Std Dev 0

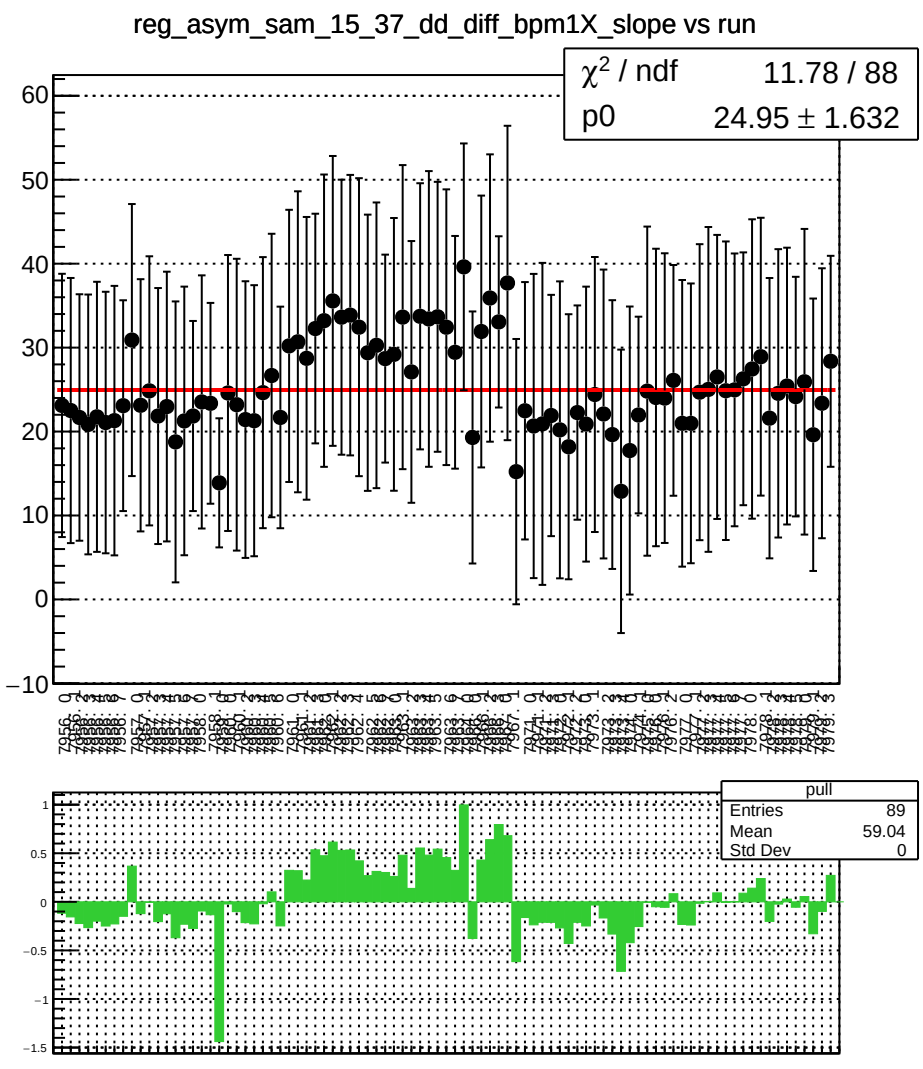

pull1D
Entries 89
Mean −0.02426
Std Dev 0.4086

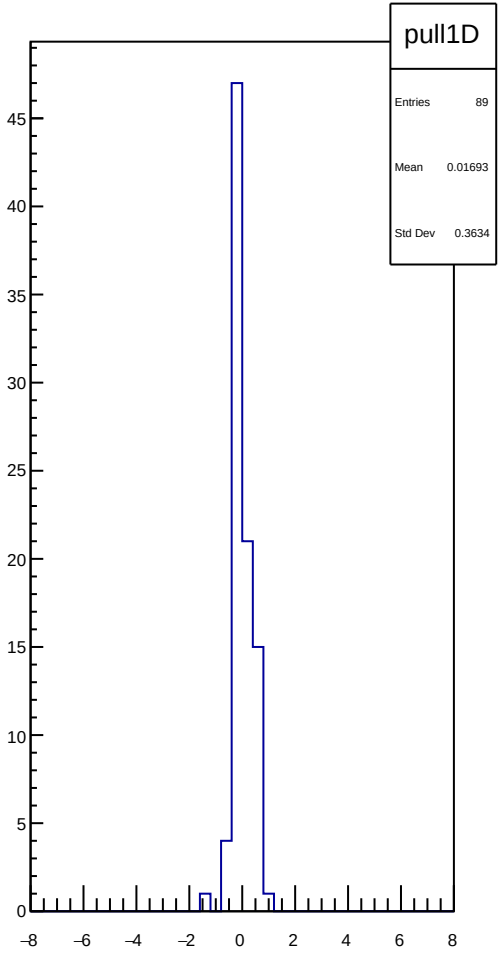

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.174 / 88
p0 −49.26 ± 1.187
pull
Entries 89
Mean 1.383e+04
Std Dev 0
pull1D
Entries 89
Mean 0.0001747
Std Dev 0.2411

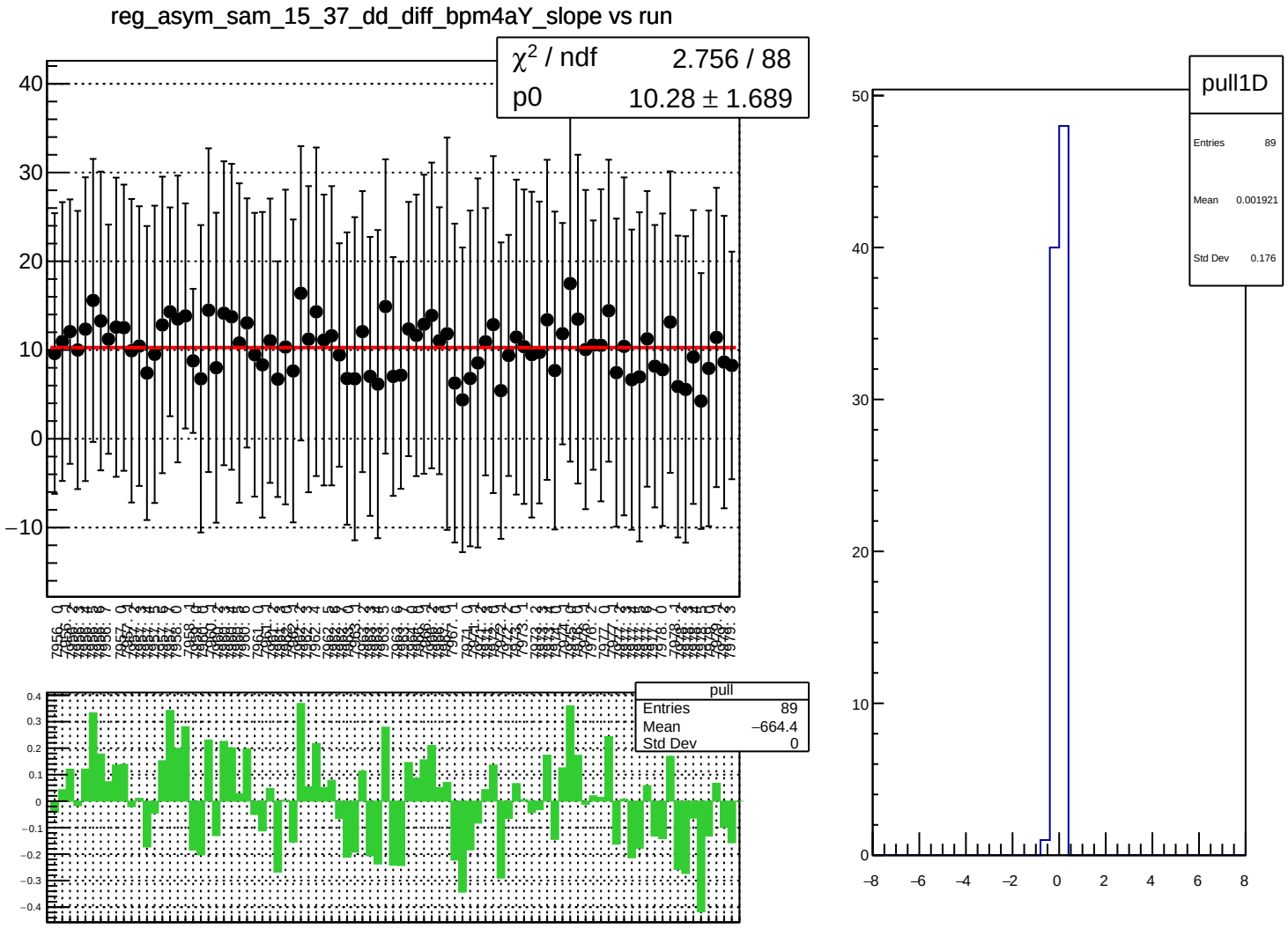

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.633 / 88
p0 −2.842 ± 1.017
pull
Entries 89
Mean 93.89
Std Dev 0
pull1D
Entries 89
Mean −0.01264
Std Dev 0.2727

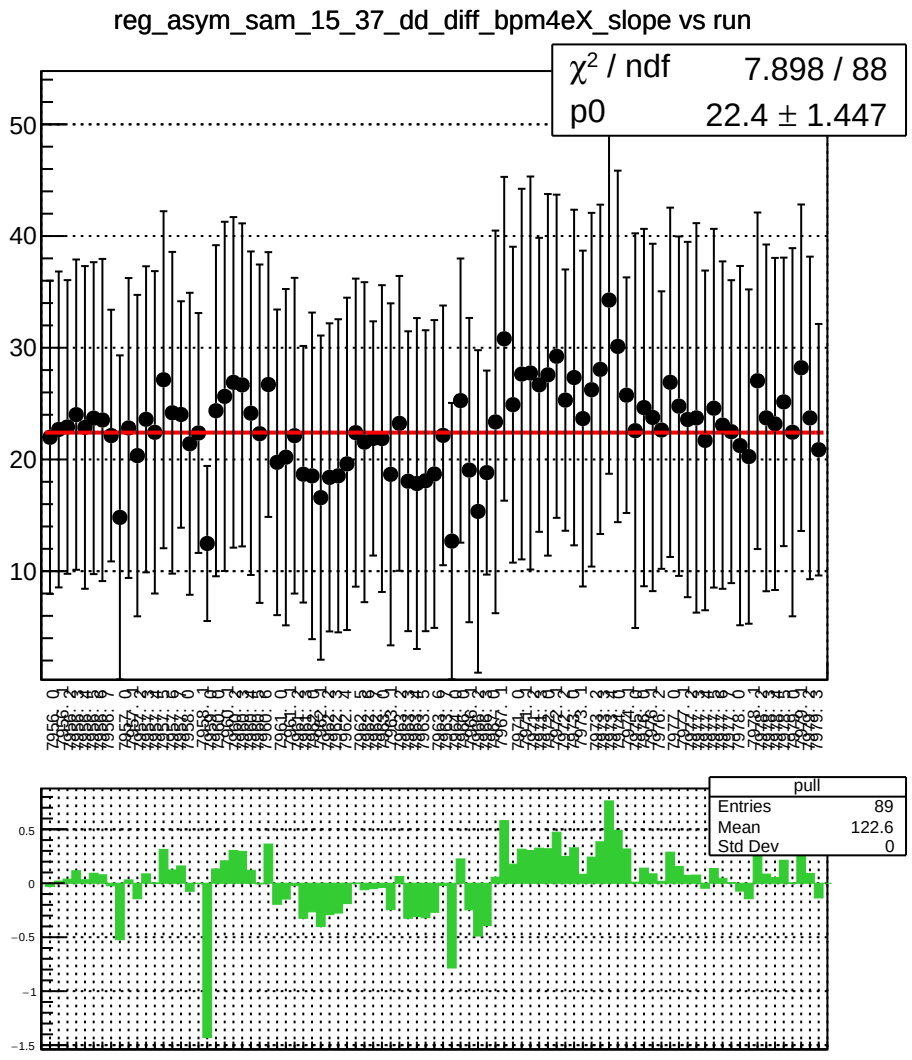

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.86 / 88
p0 8.758 ± 1.359
30
20
10
0
−10
pull
Entries 89
Mean 2695
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −0.001266
Std Dev 0.2566
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

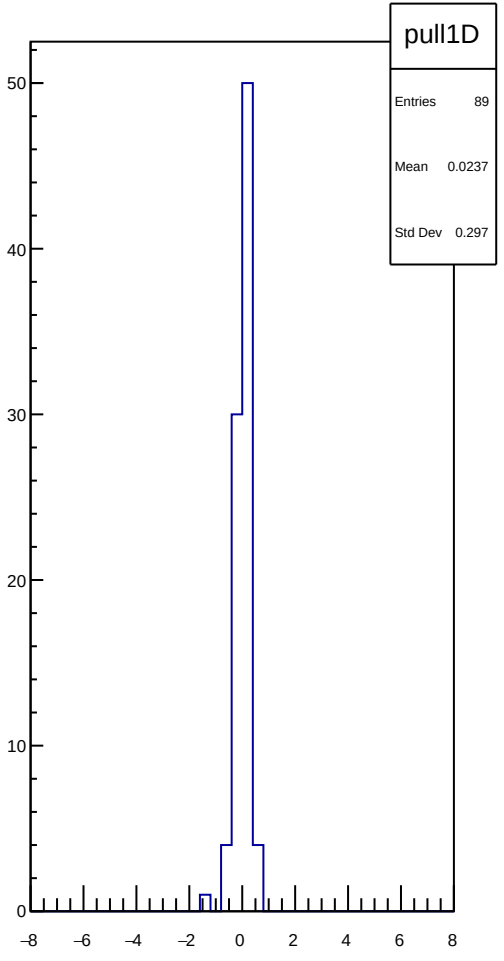

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 21 / 88
p0 0.01256 ± 0.03905
pull
Entries 89
Mean 237.4
Std Dev 0
pull1D
Entries 89
Mean −0.03474
Std Dev 0.4845

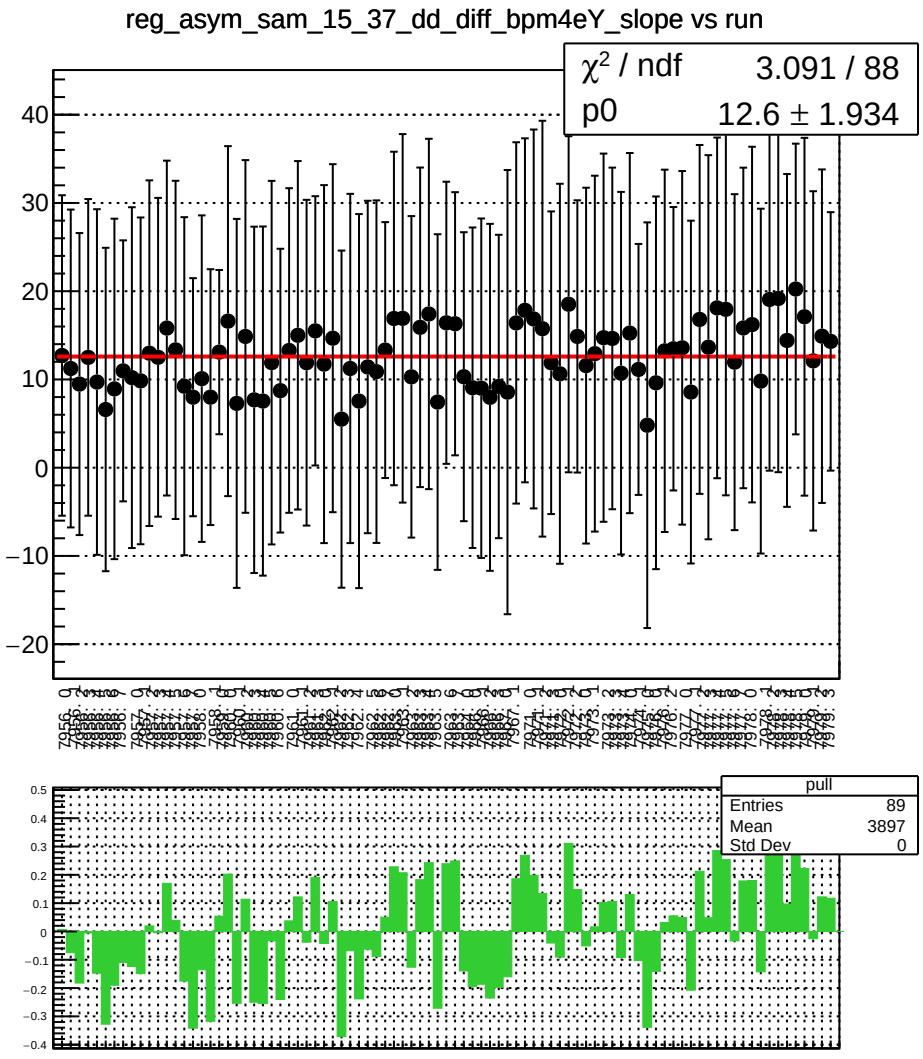

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 11.78 / 88
p0 24.95 ± 1.632
pull
Entries 89
Mean 59.04
Std Dev 0

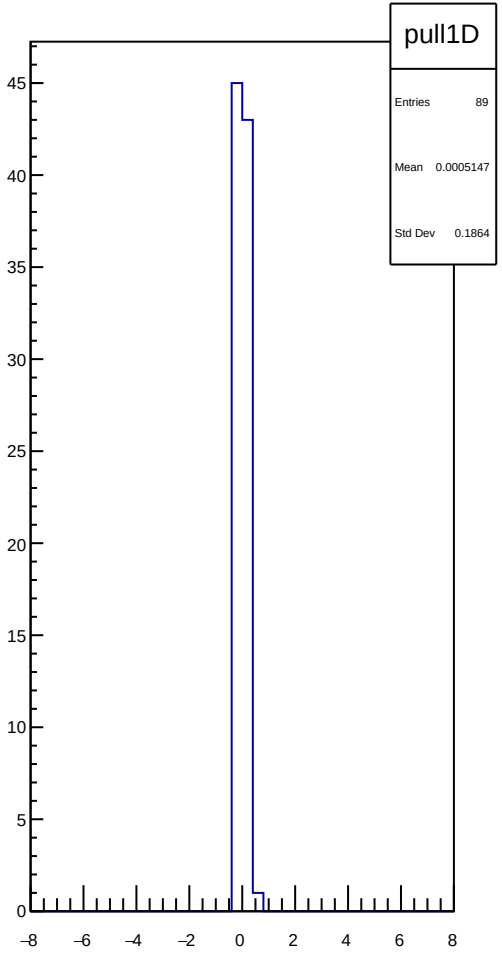

pull1D
Entries 89
Mean 0.01693
Std Dev 0.3634

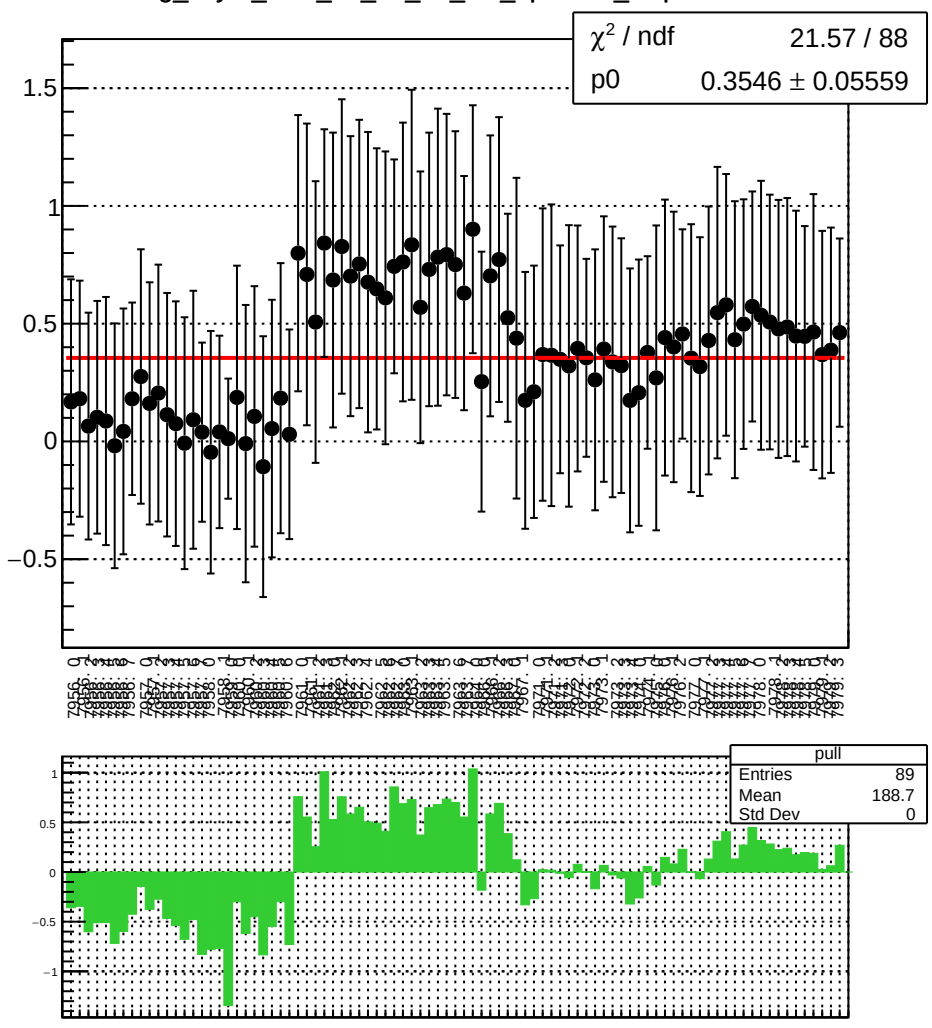

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.756 / 88
p0 10.28 ± 1.689
pull
Entries 89
Mean −664.4
Std Dev 0
pull1D
Entries 89
Mean 0.001921
Std Dev 0.176

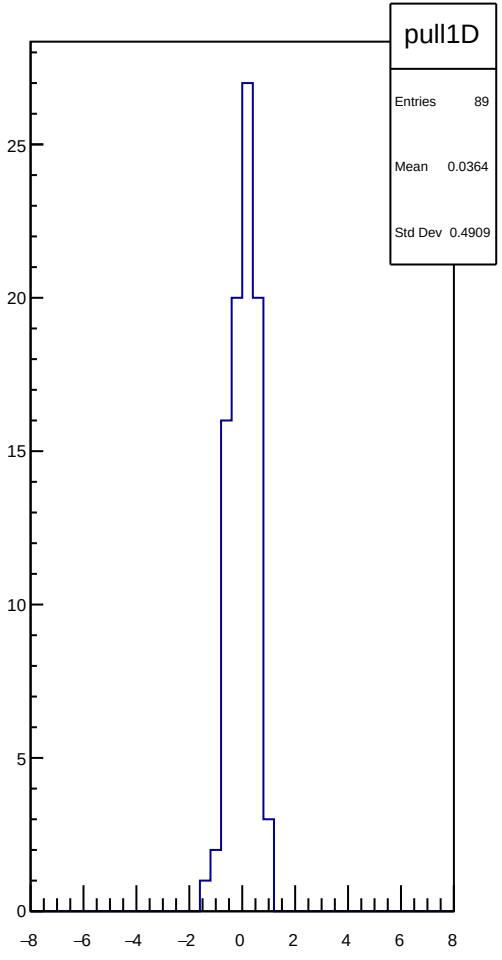

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.898 / 88
p0 22.4 ± 1.447
pull
Entries 89
Mean 122.6
Std Dev 0

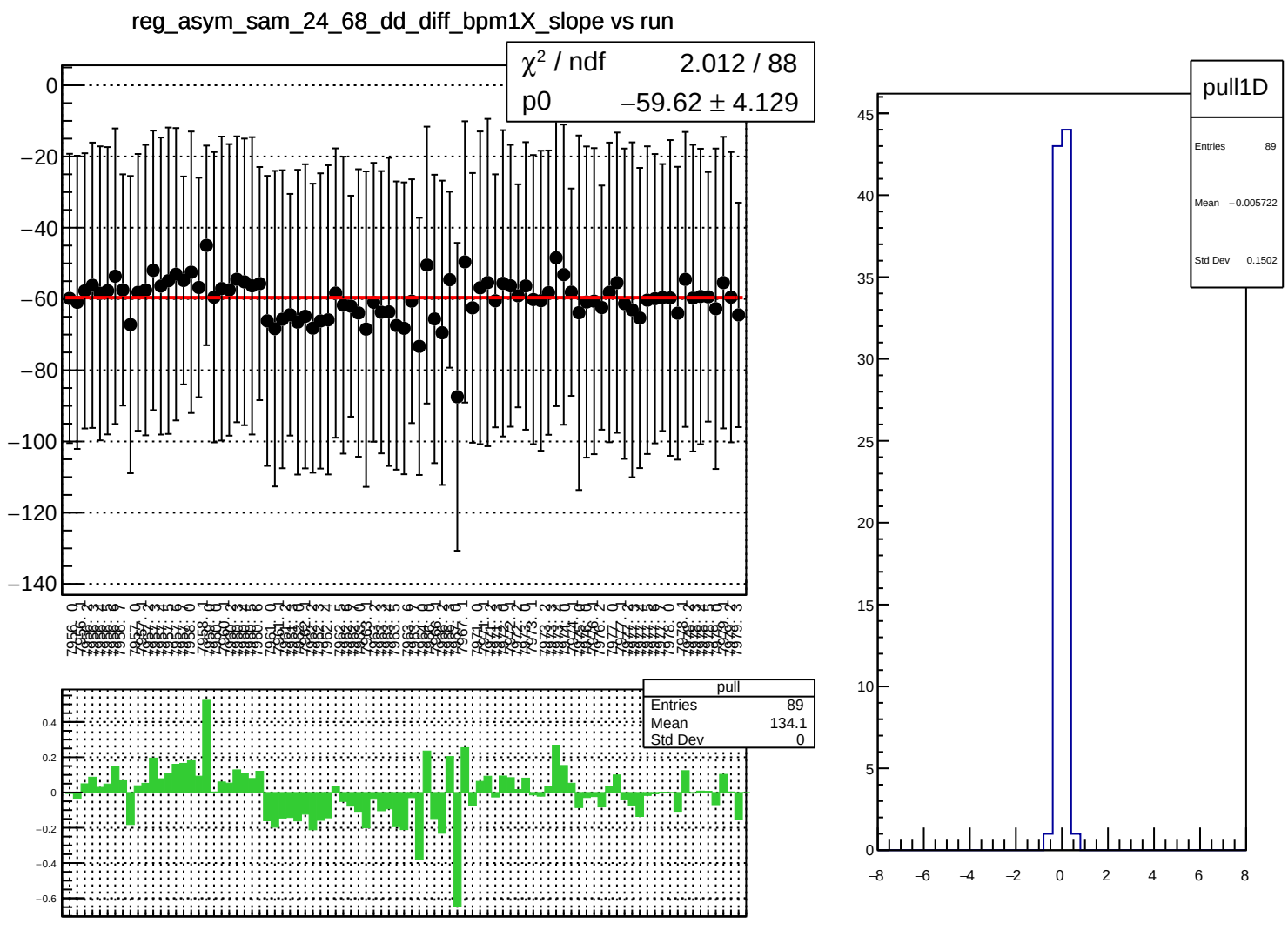

pull1D
Entries 89
Mean 0.0237
Std Dev 0.297

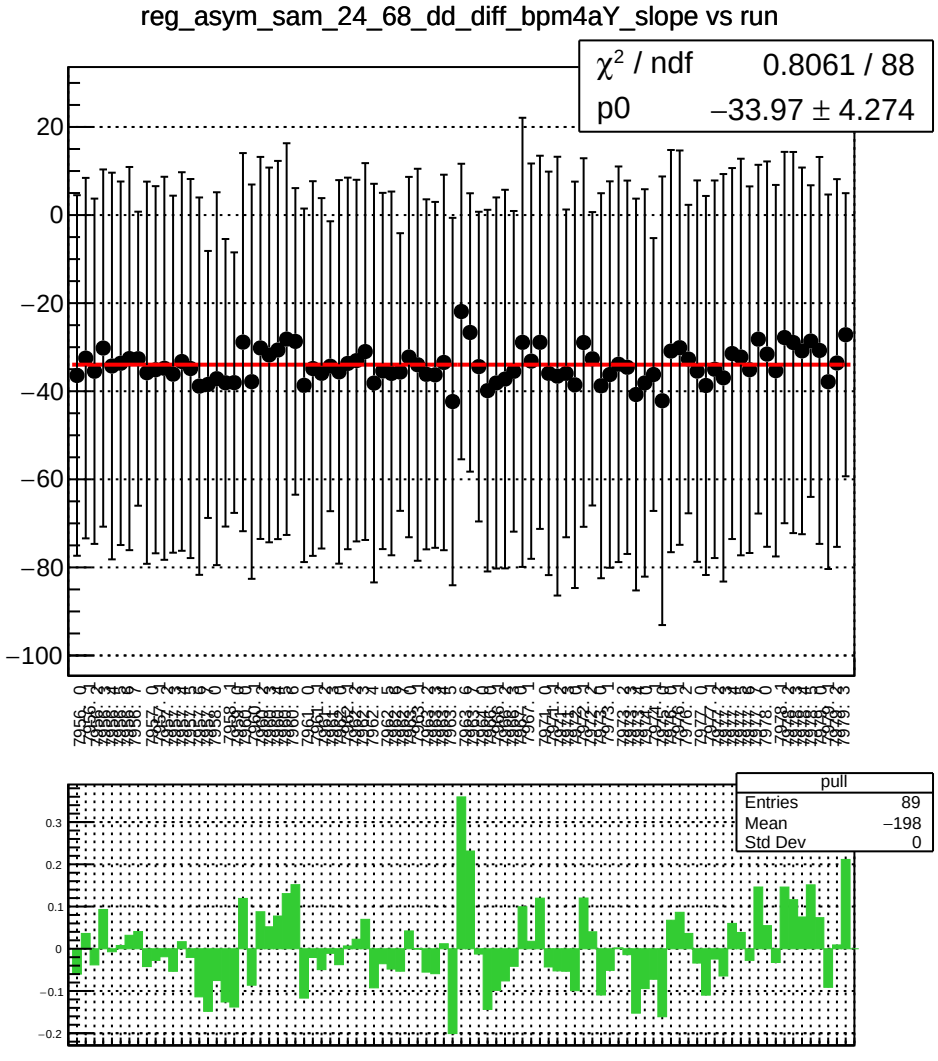

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.091 / 88
p0 12.6 ± 1.934
pull
Entries 89
Mean 3897
Std Dev 0

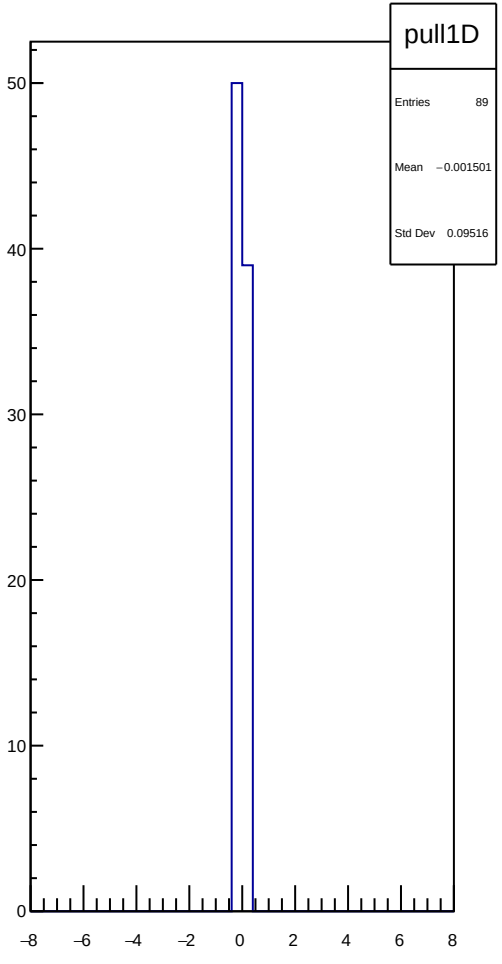

pull1D
Entries 89
Mean 0.0005147
Std Dev 0.1864

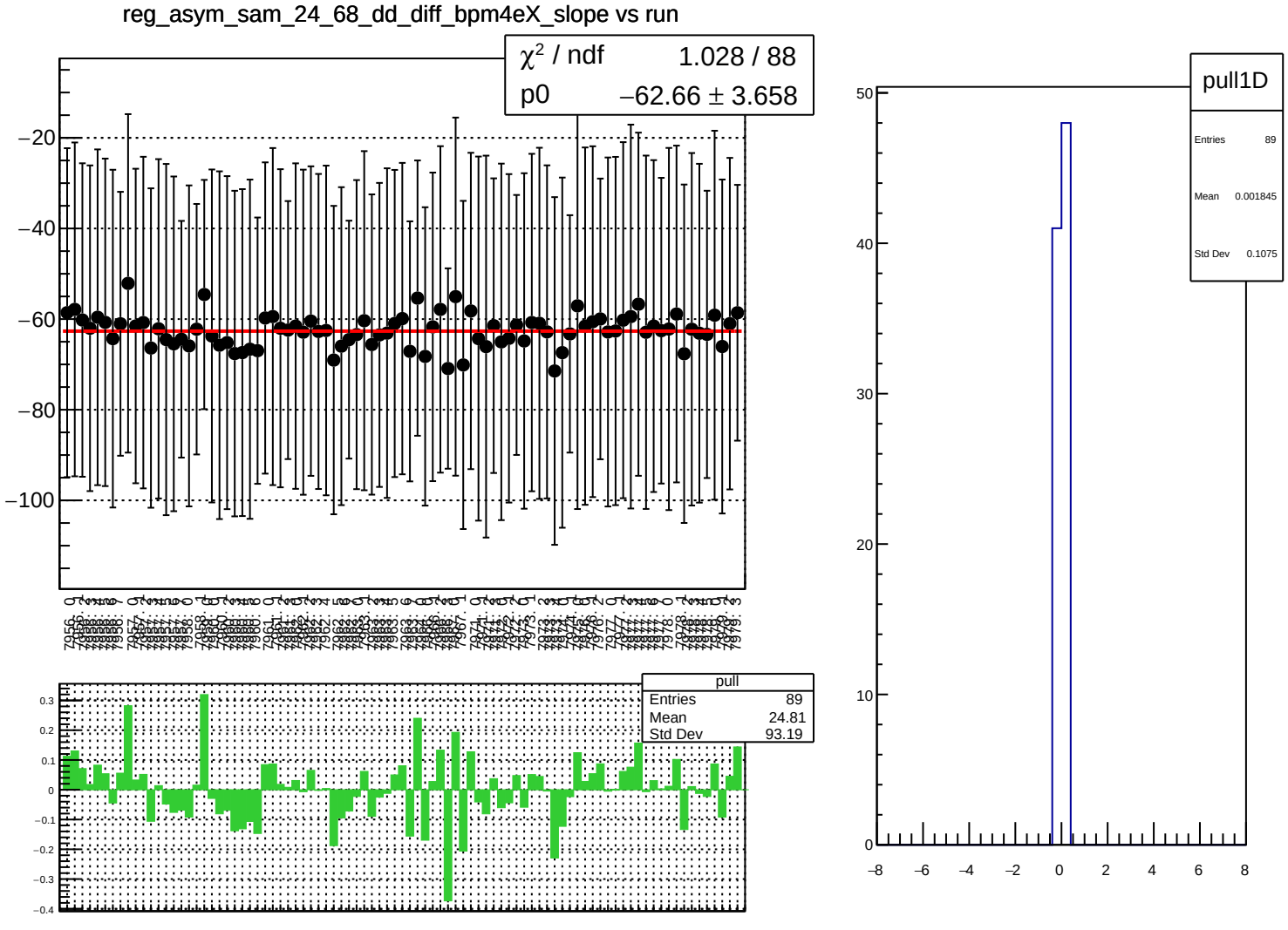

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 21.57 / 88
p0 0.3546 ± 0.05559
pull
Entries 89
Mean 188.7
Std Dev 0

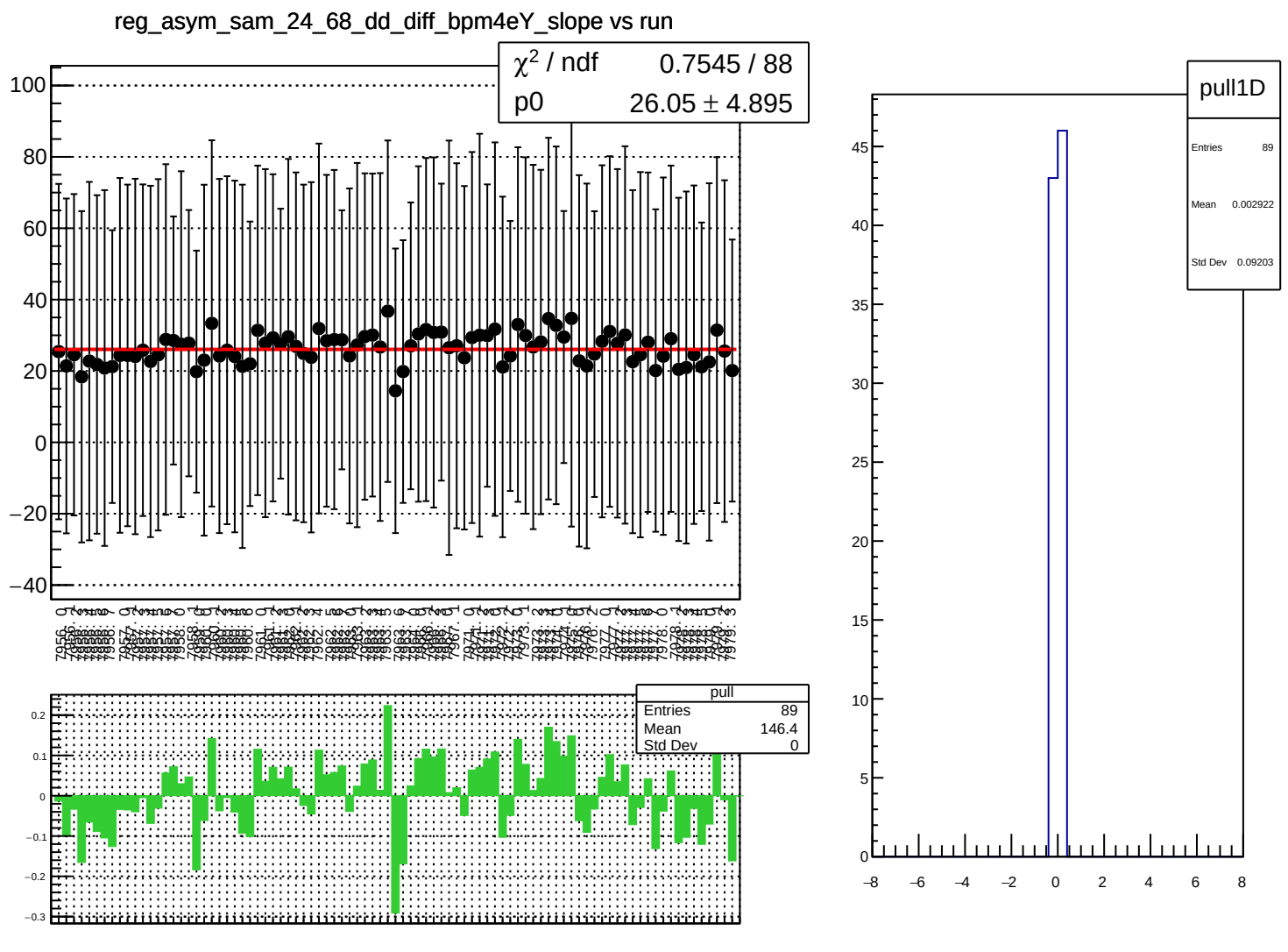

pull1D
Entries 89
Mean 0.0364
Std Dev 0.4909

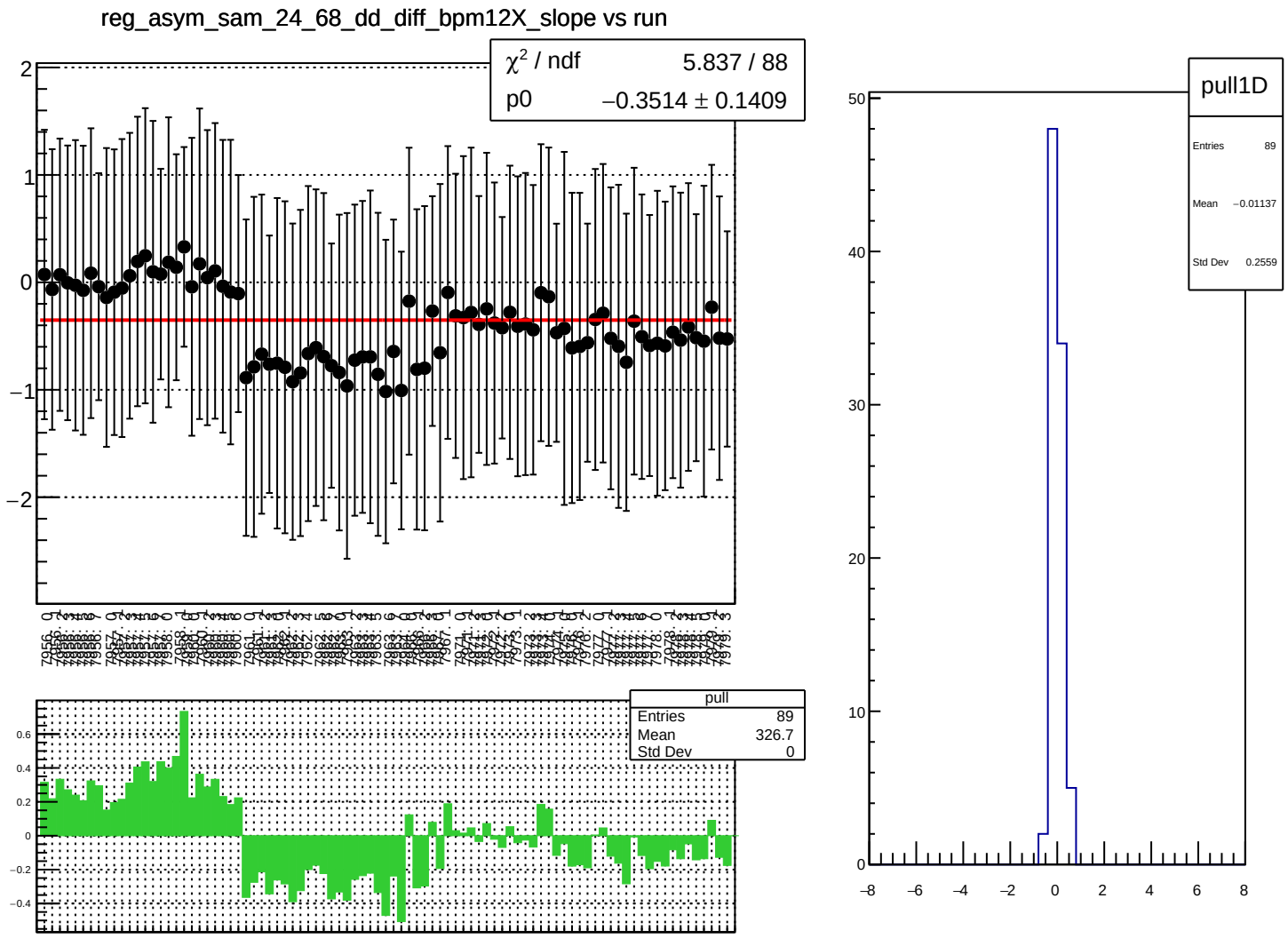

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 2.012 / 88
p0 −59.62 ± 4.129
pull
Entries 89
Mean 134.1
Std Dev 0
pull1D
Entries 89
Mean −0.005722
Std Dev 0.1502

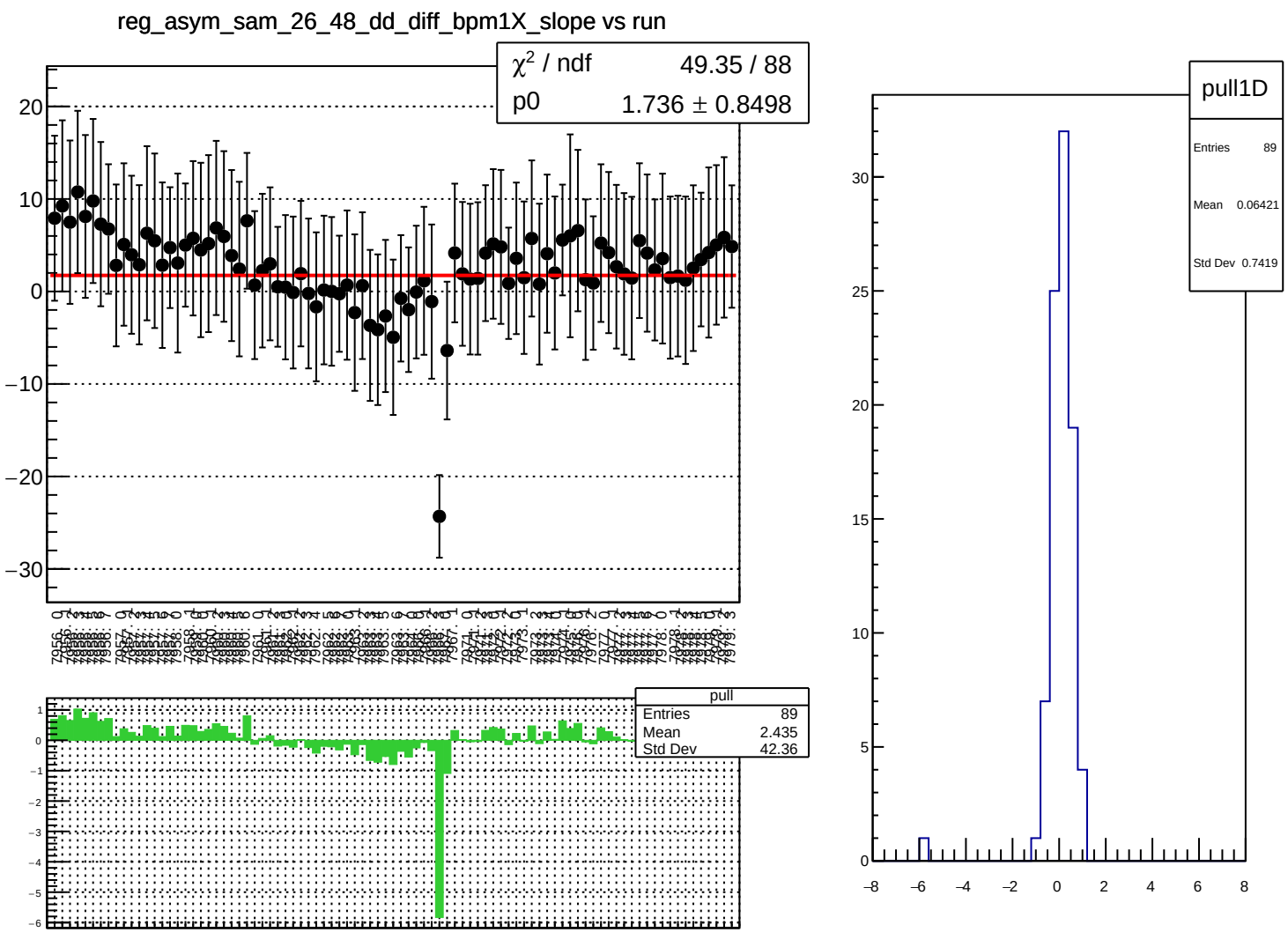

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8061 / 88
p0 −33.97 ± 4.274
pull
Entries 89
Mean −198
Std Dev 0

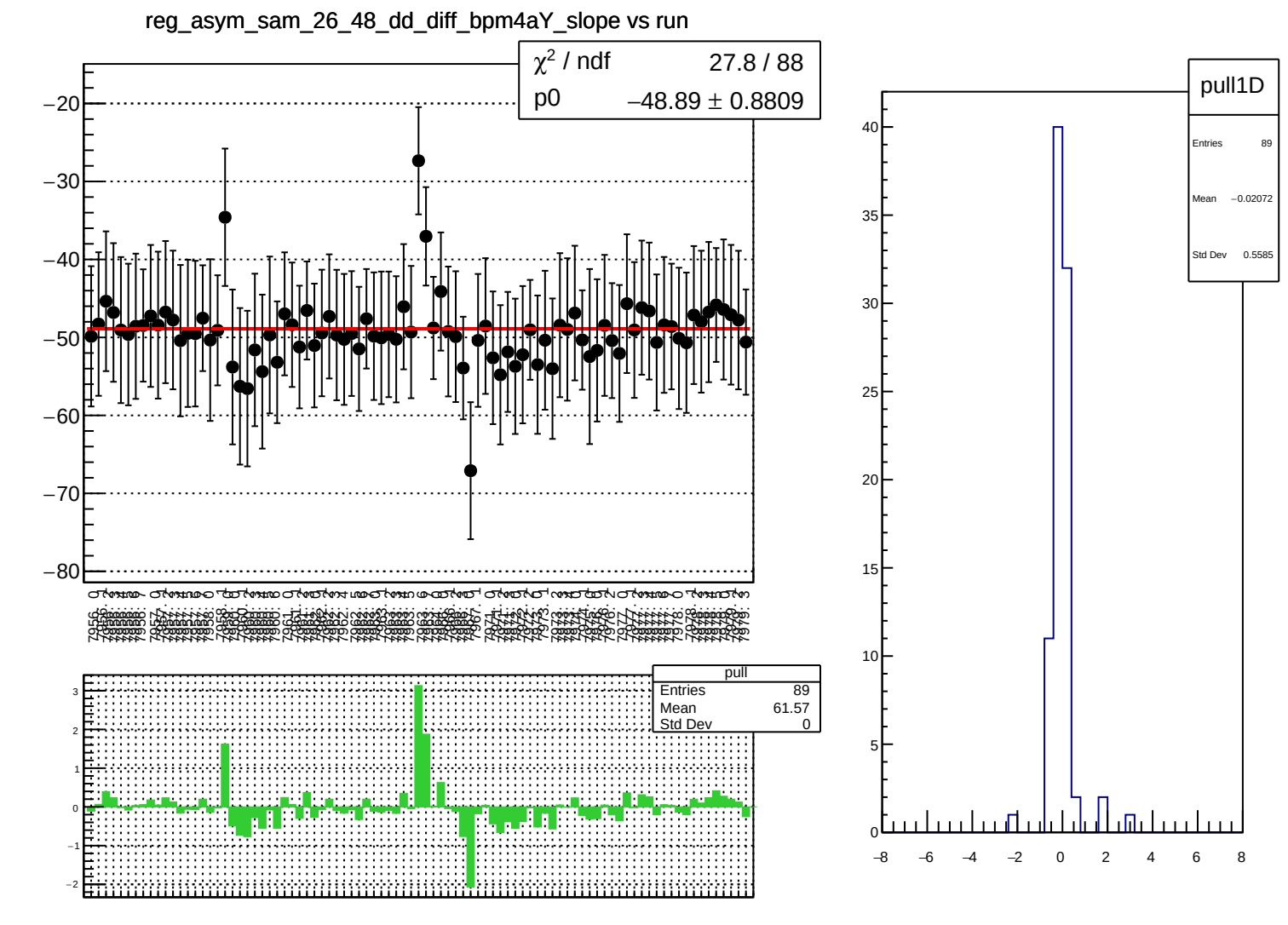

pull1D
Entries 89
Mean −0.001501
Std Dev 0.09516

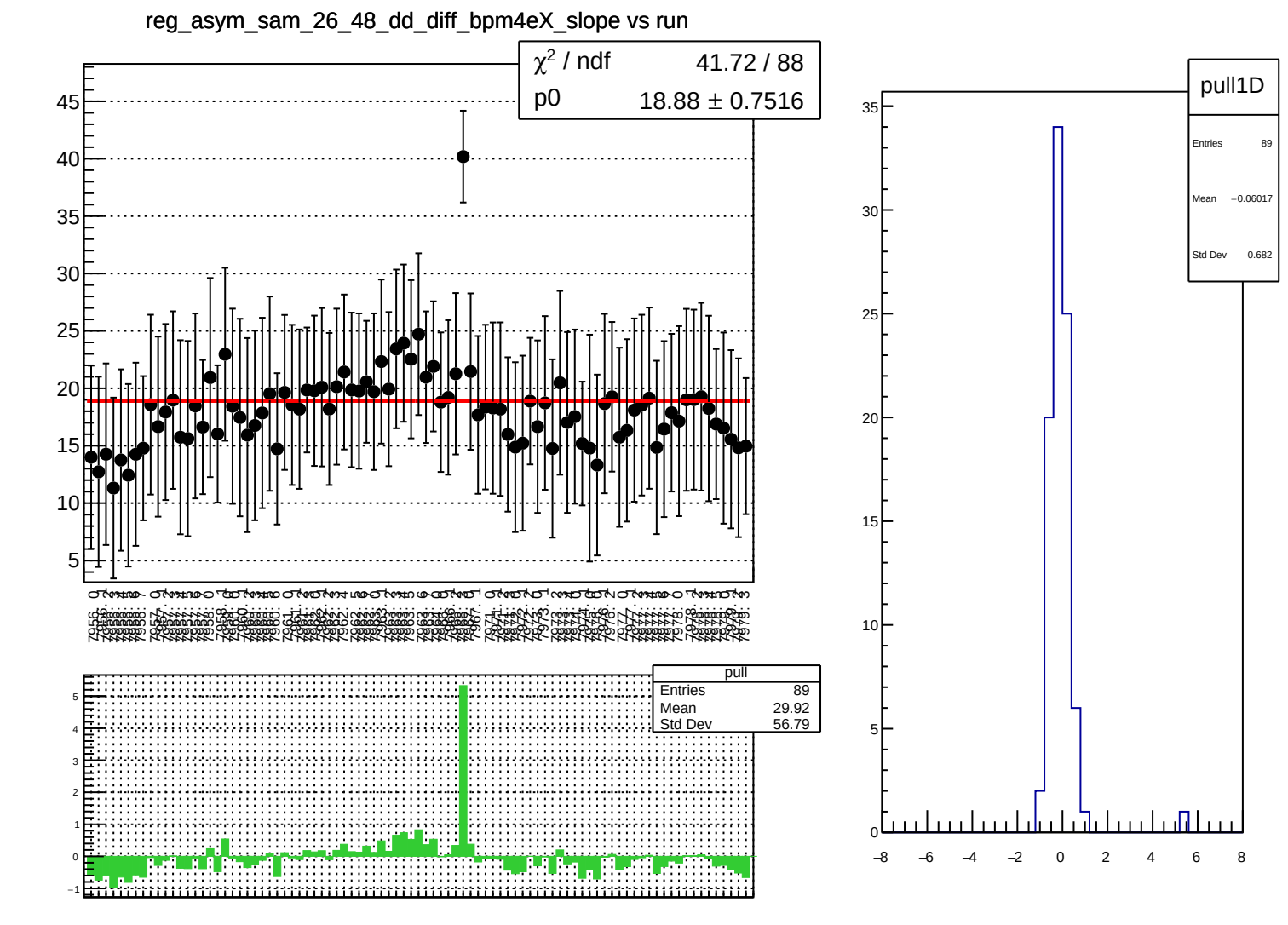

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.028 / 88
p0 −62.66 ± 3.658
pull
Entries 89
Mean 24.81
Std Dev 93.19
pull1D
Entries 89
Mean 0.001845
Std Dev 0.1075

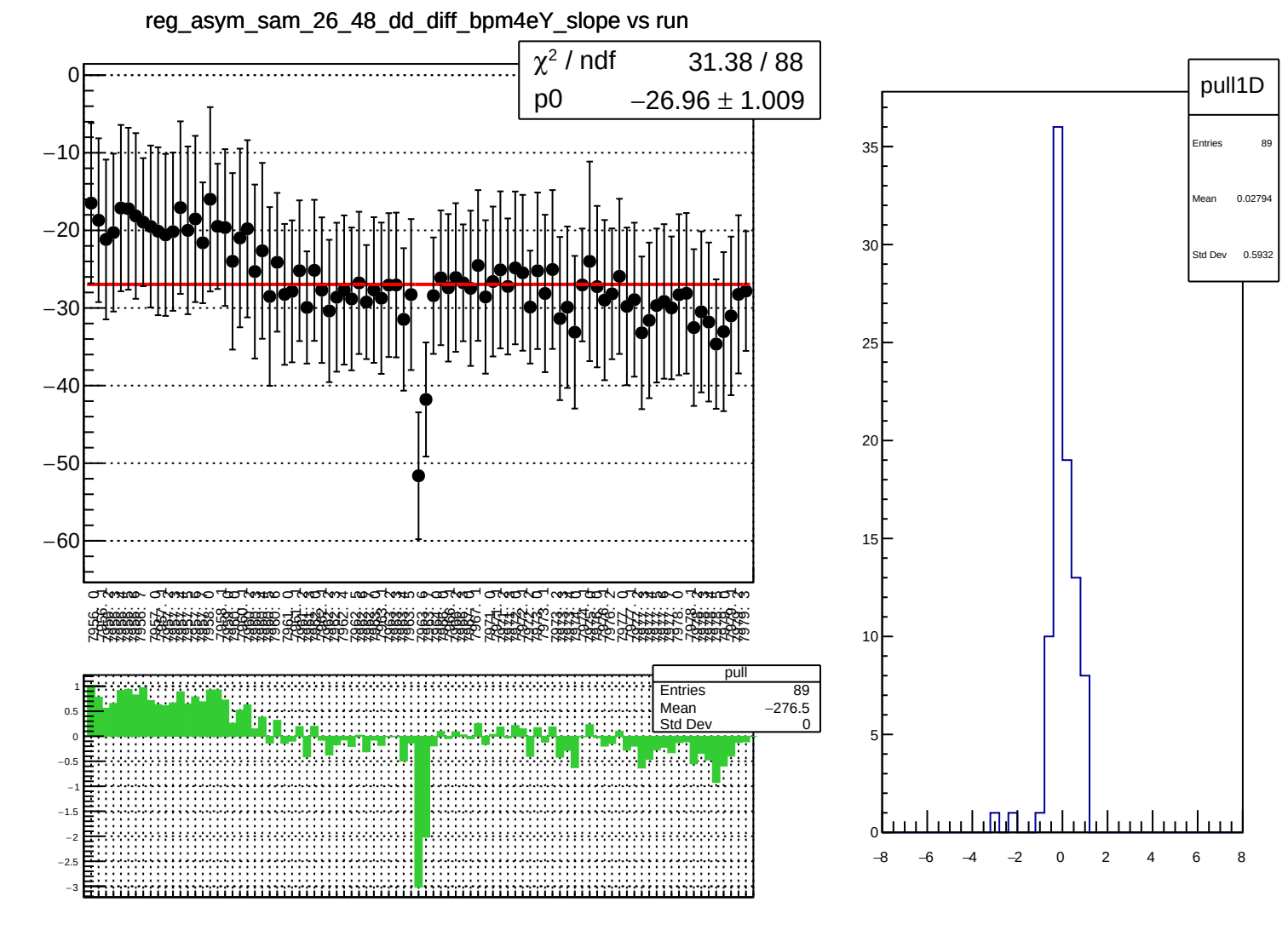

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.7545 / 88
p0 26.05 ± 4.895
pull
Entries 89
Mean 146.4
Std Dev 0
pull1D
Entries 89
Mean 0.002922
Std Dev 0.09203

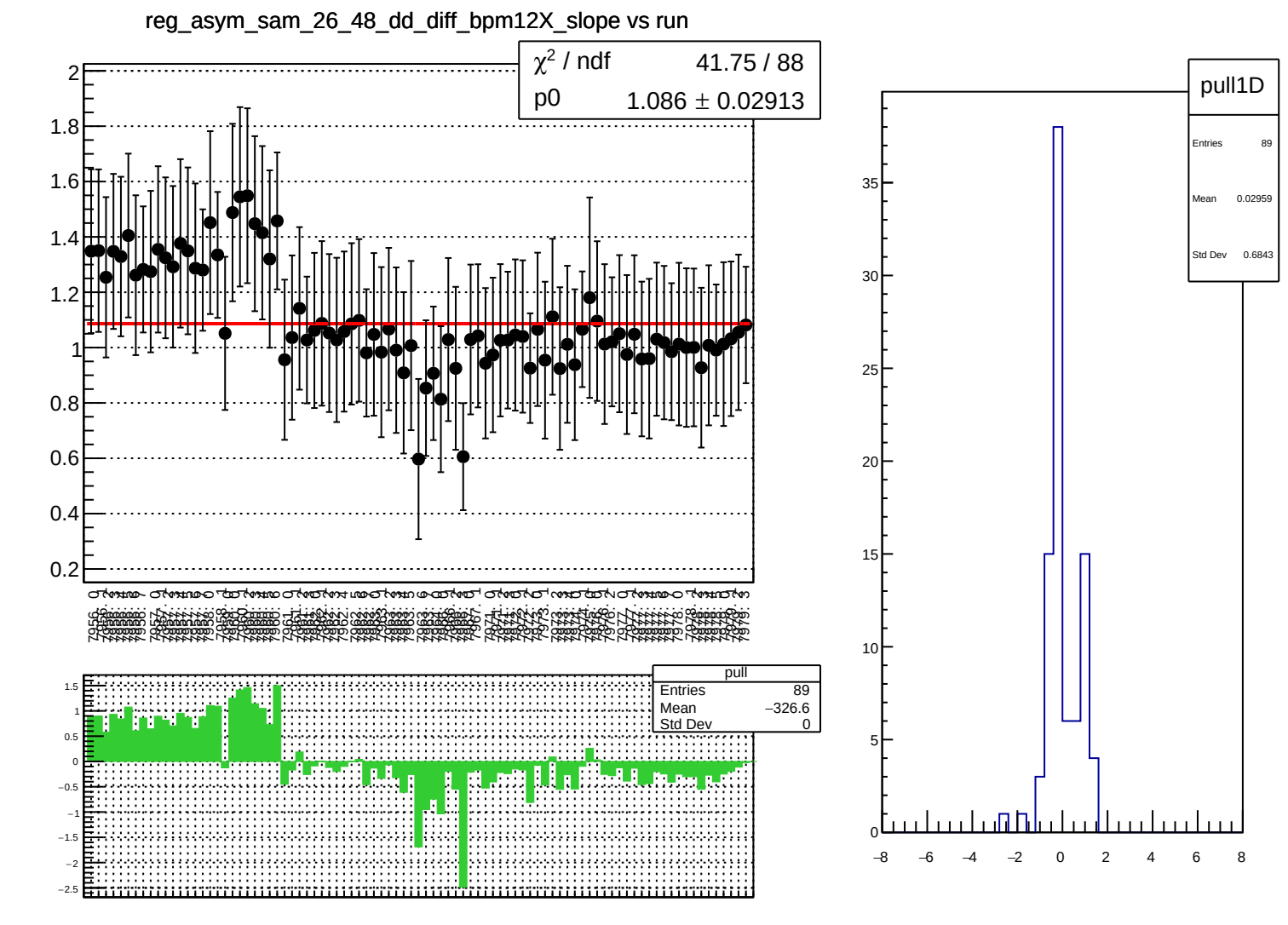

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 5.837 / 88
p0 −0.3514 ± 0.1409
pull
Entries 89
Mean 326.7
Std Dev 0
pull1D
Entries 89
Mean −0.01137
Std Dev 0.2559

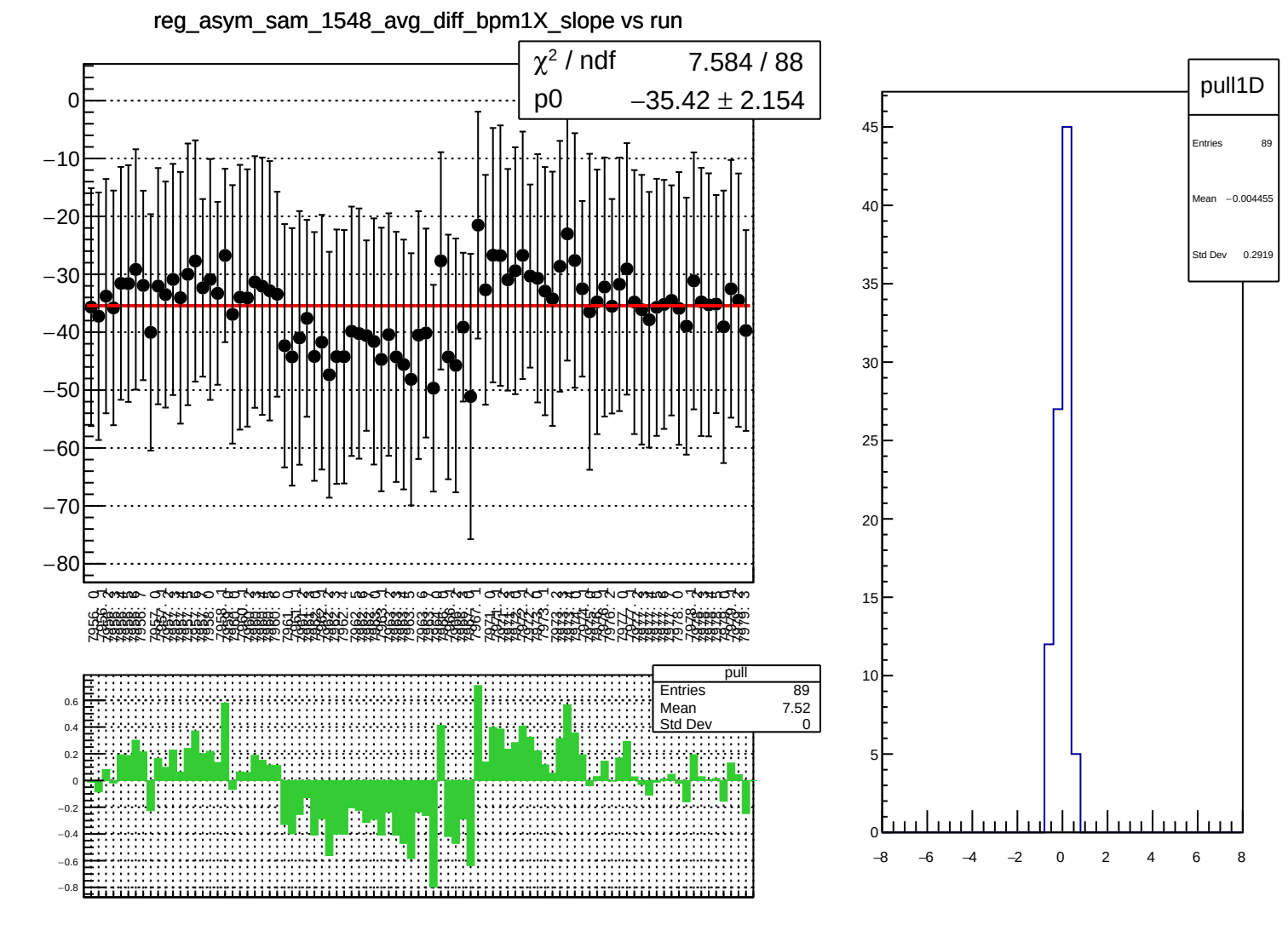

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 49.35 / 88
p0 1.736 ± 0.8498
pull
Entries 89
Mean 2.435
Std Dev 42.36
pull1D
Entries 89
Mean 0.06421
Std Dev 0.7419

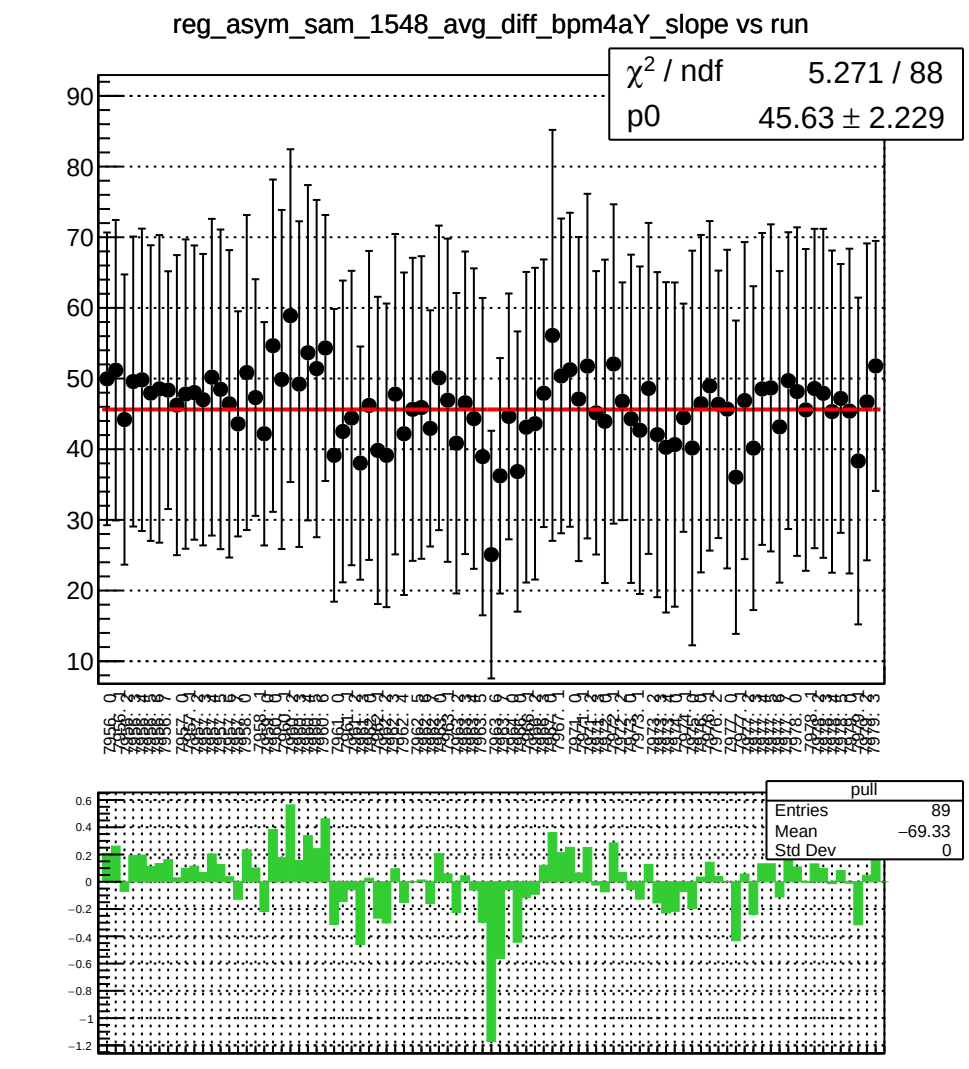

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.8 / 88
p0 −48.89 ± 0.8809
pull
Entries 89
Mean 61.57
Std Dev 0
pull1D
Entries 89
Mean −0.02072
Std Dev 0.5585

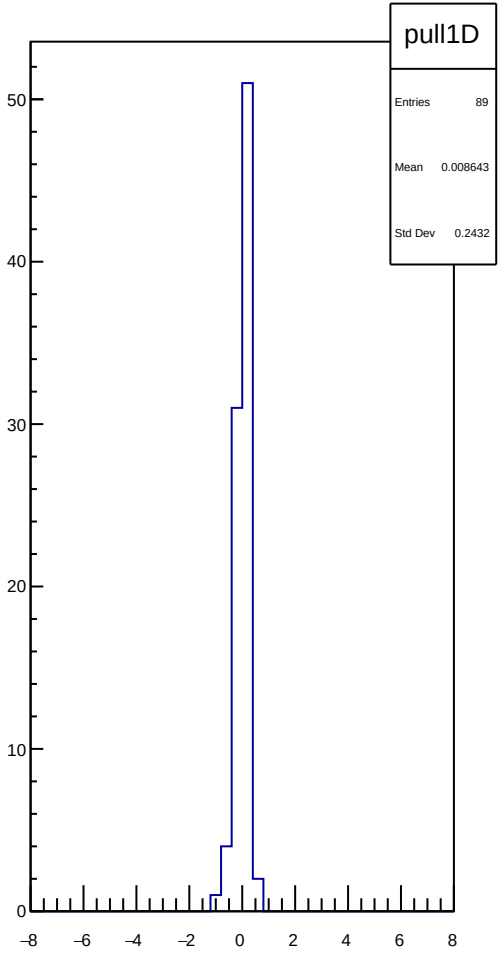

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.72 / 88
p0 18.88 ± 0.7516
pull
Entries 89
Mean 29.92
Std Dev 56.79
pull1D
Entries 89
Mean −0.06017
Std Dev 0.682

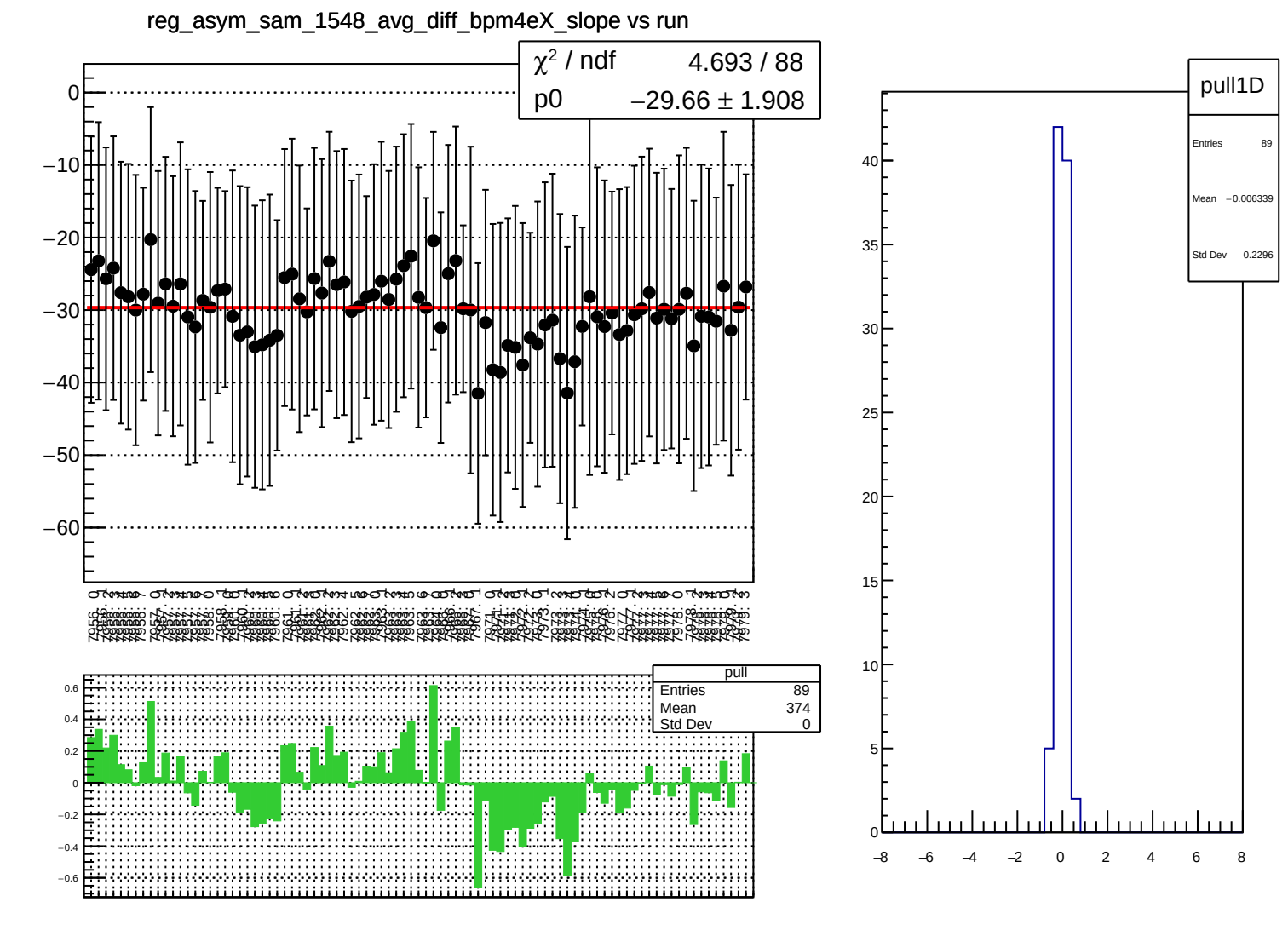

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.38 / 88
p0 −26.96 ± 1.009
pull
Entries 89
Mean −276.5
Std Dev 0
pull1D
Entries 89
Mean 0.02794
Std Dev 0.5932

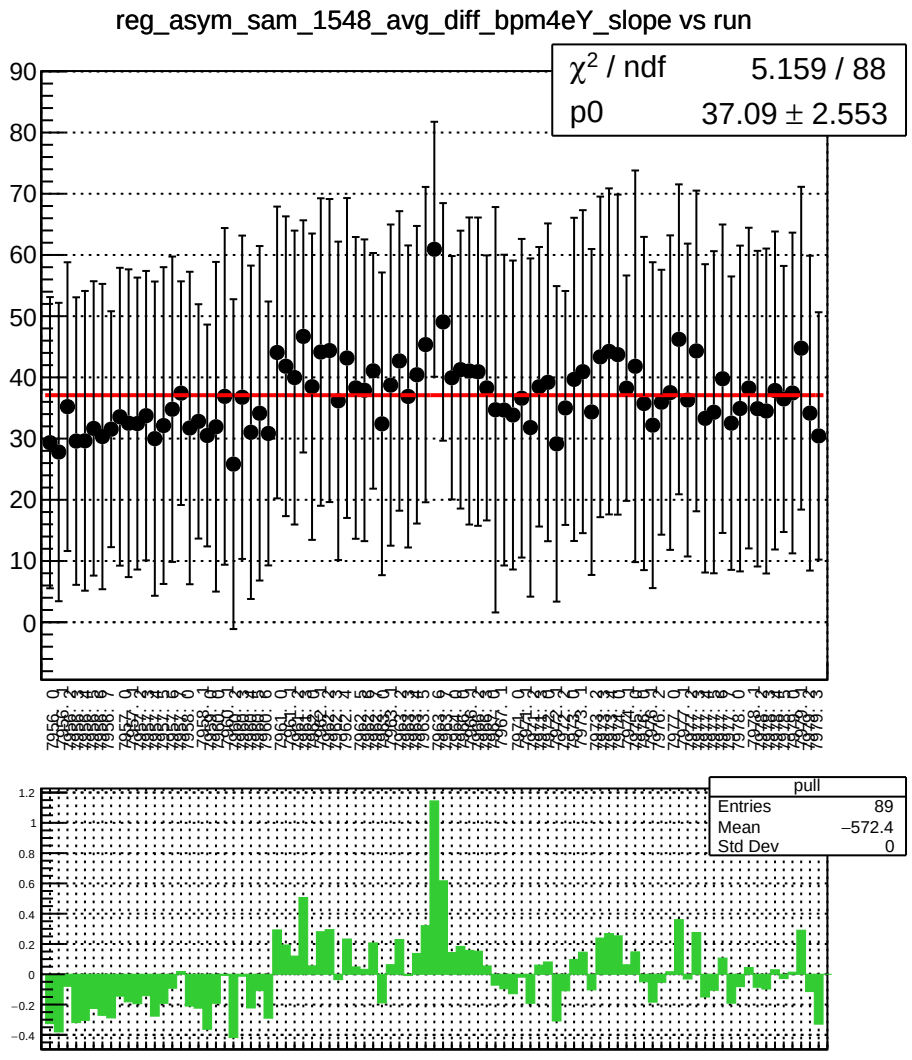

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 41.75 / 88
p0 1.086 ± 0.02913
pull
Entries 89
Mean −326.6
Std Dev 0
pull1D
Entries 89
Mean 0.02959
Std Dev 0.6843

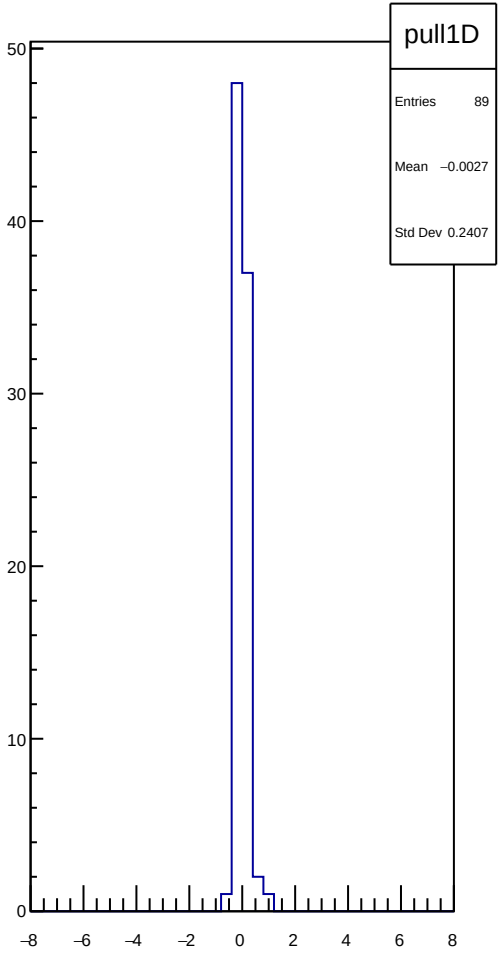

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 7.584 / 88
p0 −35.42 ± 2.154
pull
Entries 89
Mean 7.52
Std Dev 0
pull1D
Entries 89
Mean −0.004455
Std Dev 0.2919

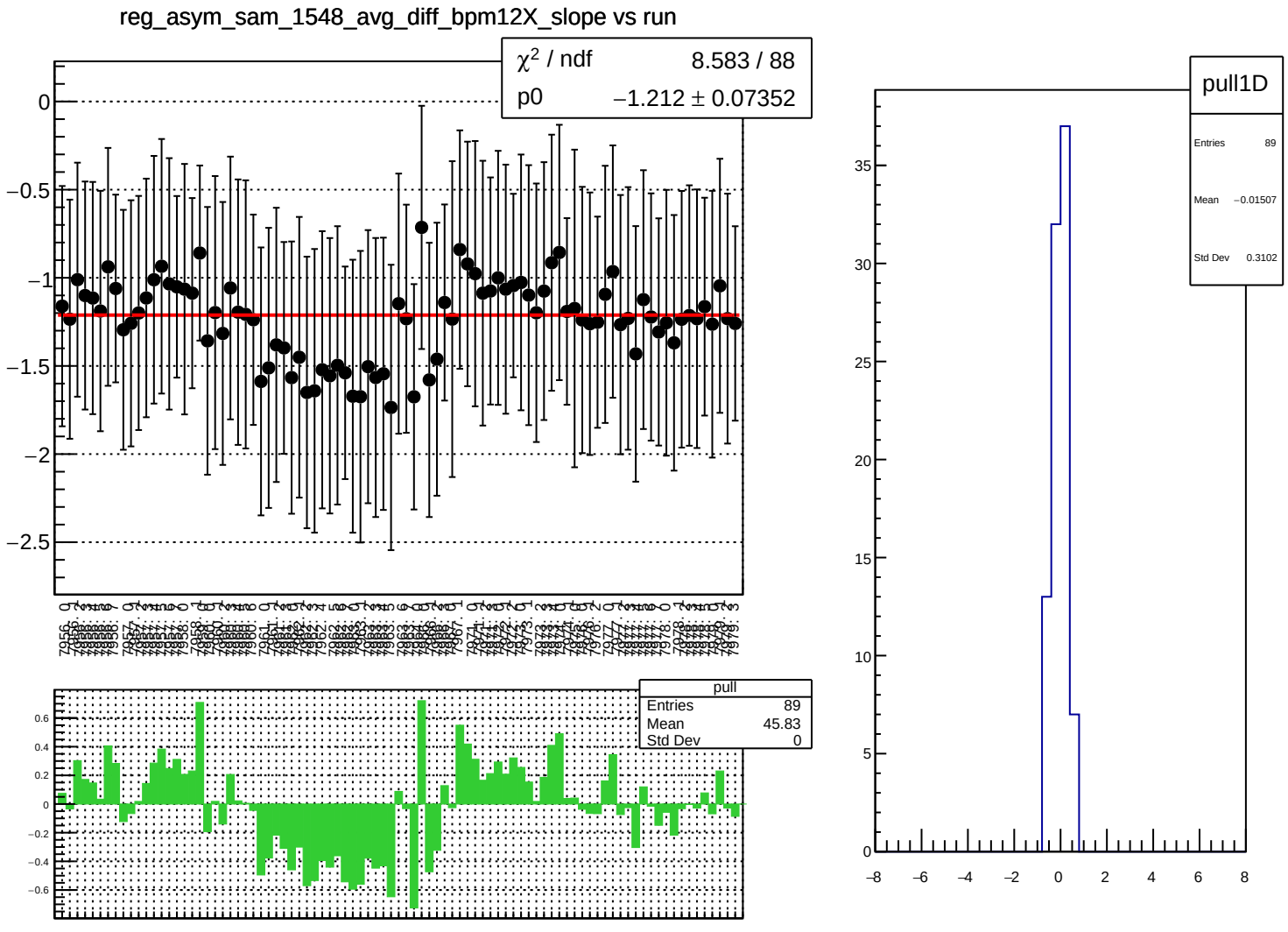

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.271 / 88
p0 45.63 ± 2.229
pull
Entries 89
Mean −69.33
Std Dev 0

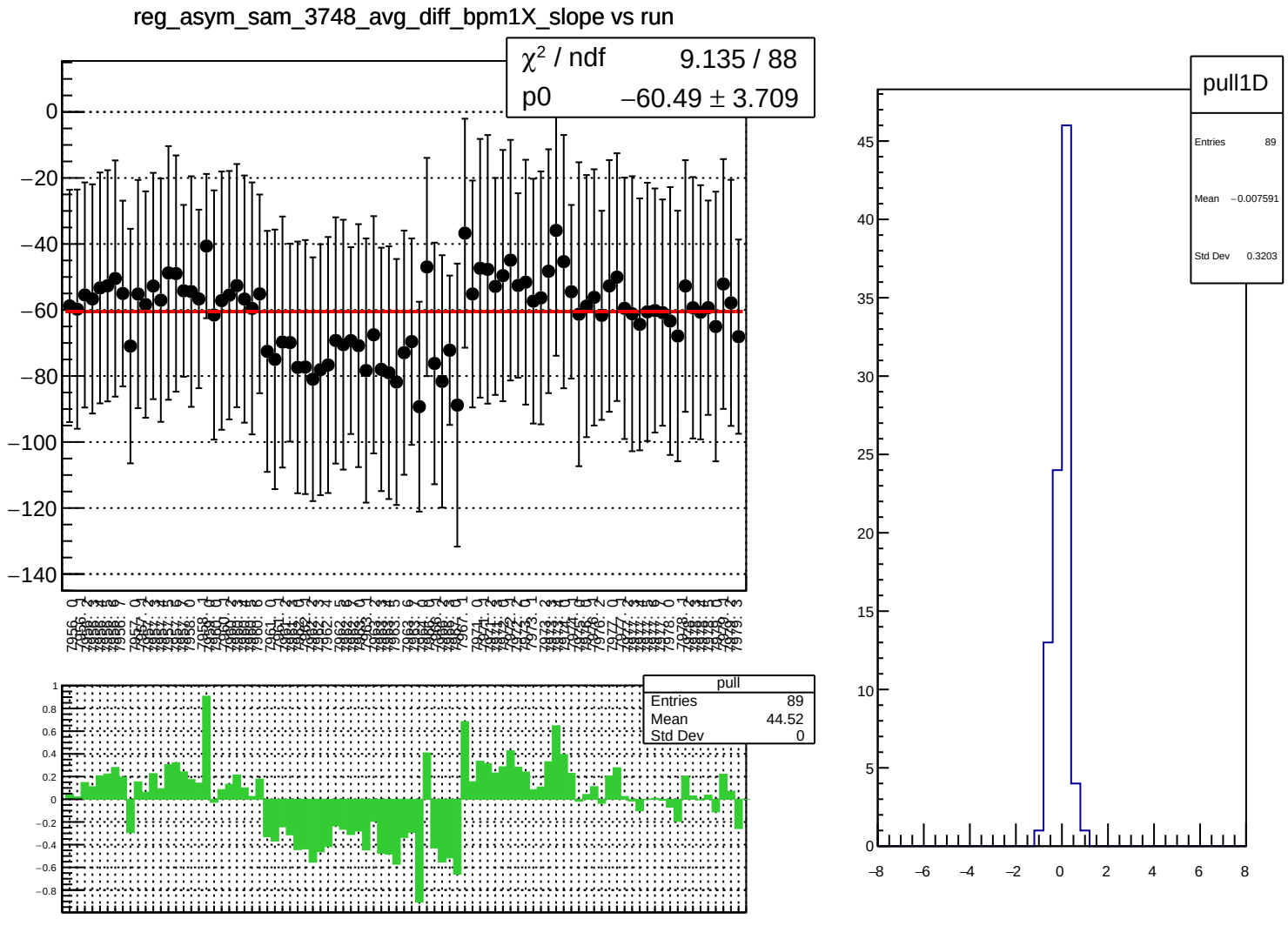

pull1D
Entries 89
Mean 0.008643
Std Dev 0.2432

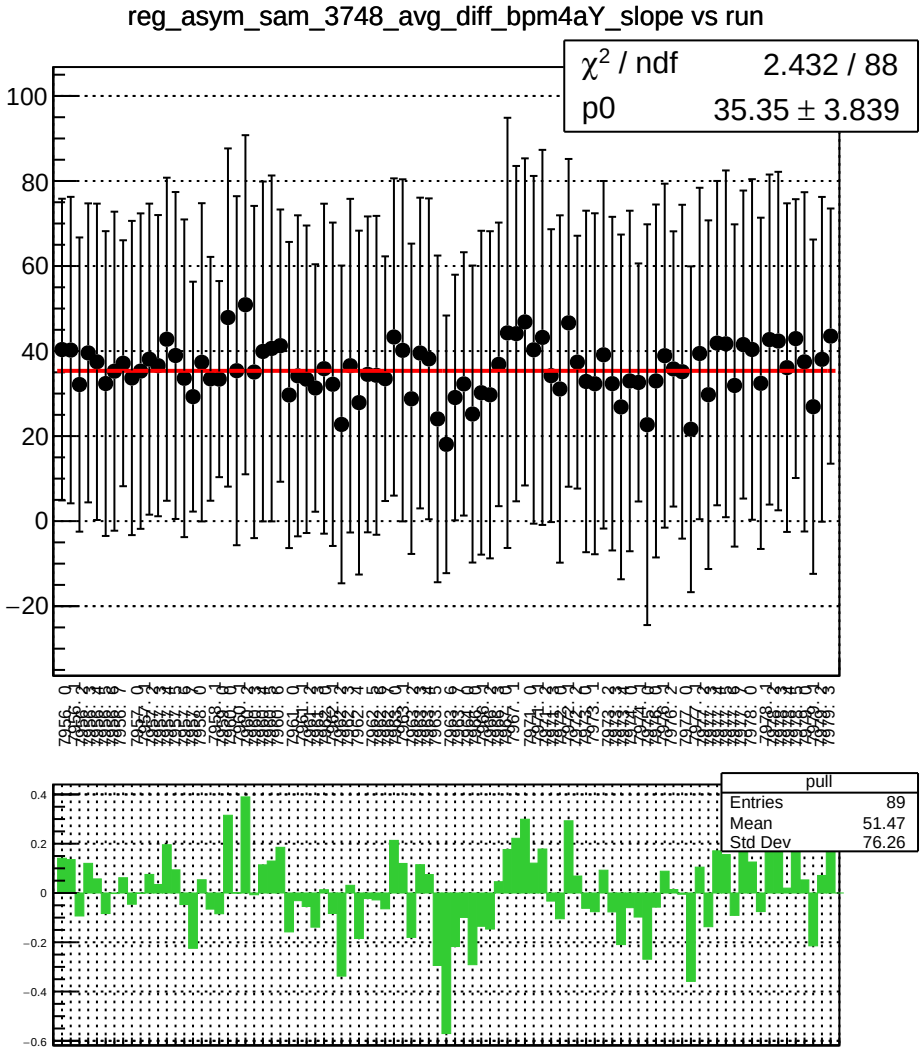

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.693 / 88
p0 −29.66 ± 1.908
pull
Entries 89
Mean 374
Std Dev 0
pull1D
Entries 89
Mean −0.006339
Std Dev 0.2296

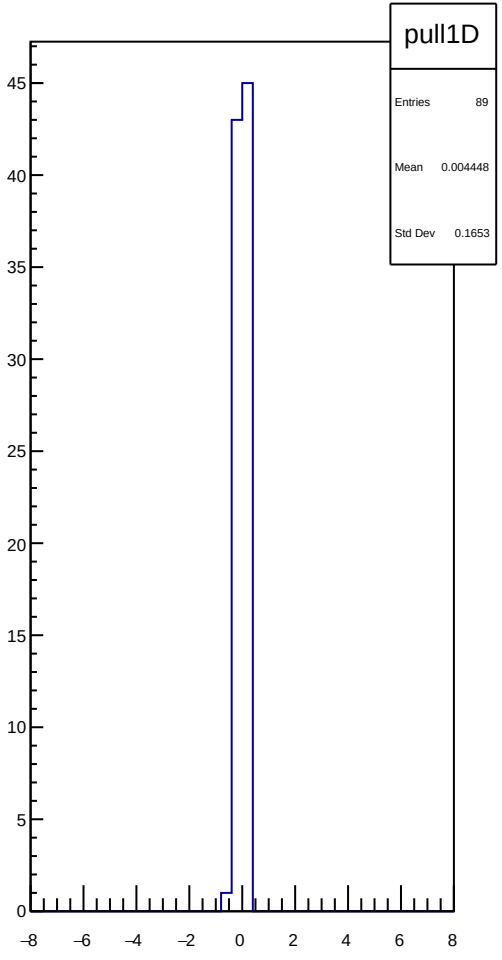

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 5.159 / 88
p0 37.09 ± 2.553
pull
Entries 89
Mean −572.4
Std Dev 0

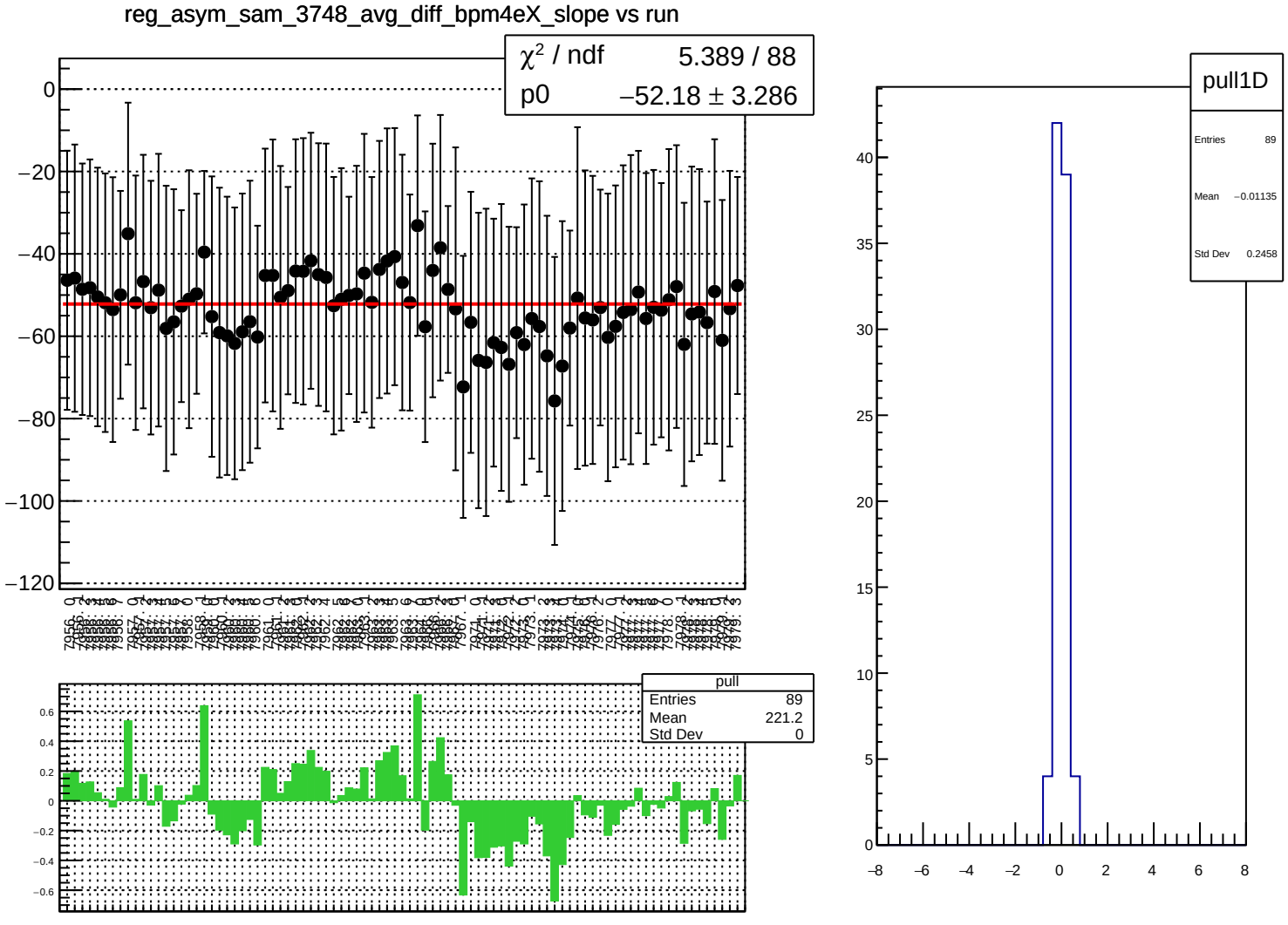

pull1D
Entries 89
Mean −0.0027
Std Dev 0.2407

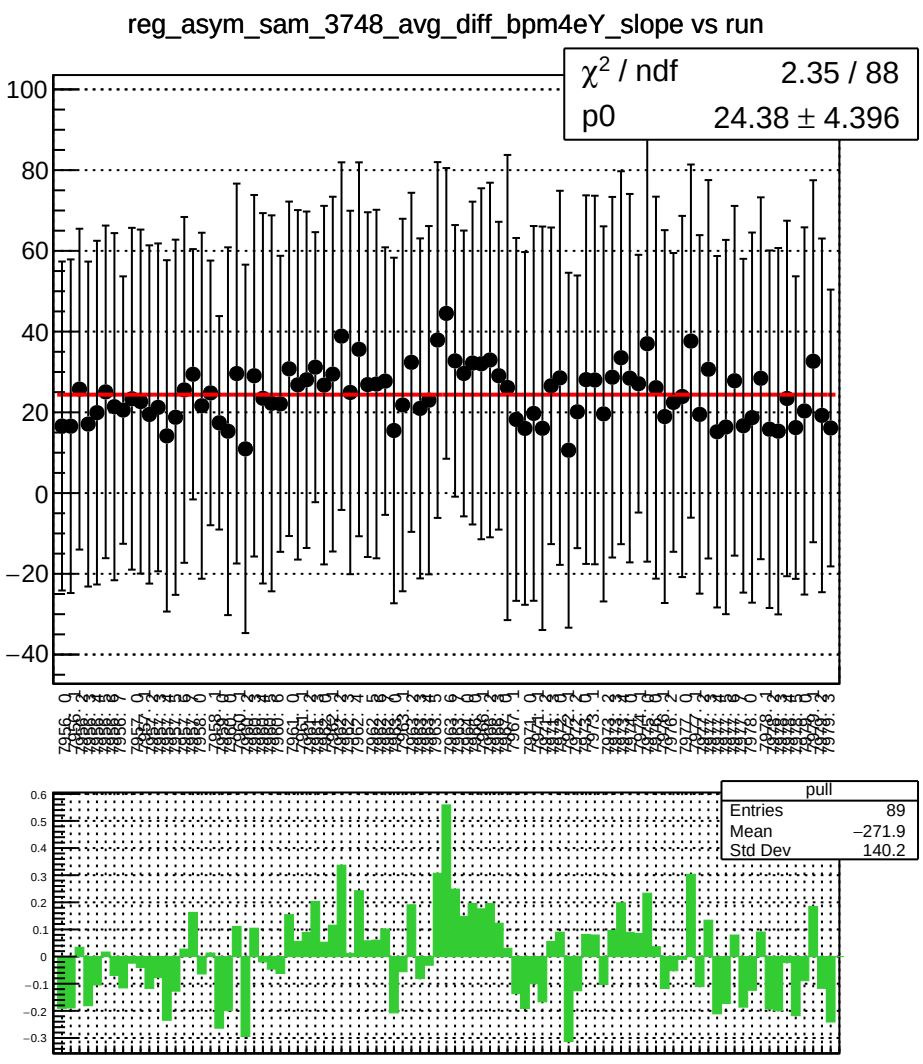

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 8.583 / 88
p0 −1.212 ± 0.07352
pull
Entries 89
Mean 45.83
Std Dev 0
pull1D
Entries 89
Mean −0.01507
Std Dev 0.3102

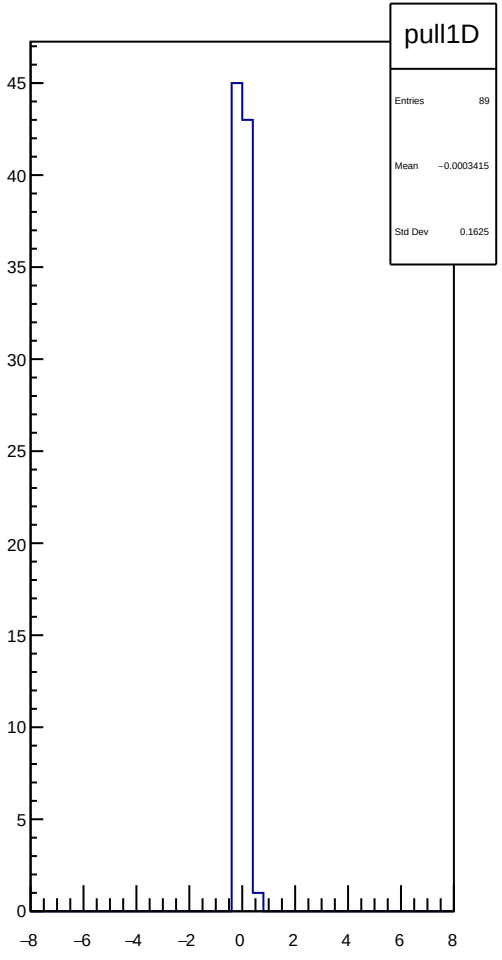

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 9.135 / 88
p0 −60.49 ± 3.709
pull
Entries 89
Mean 44.52
Std Dev 0
pull1D
Entries 89
Mean −0.007591
Std Dev 0.3203

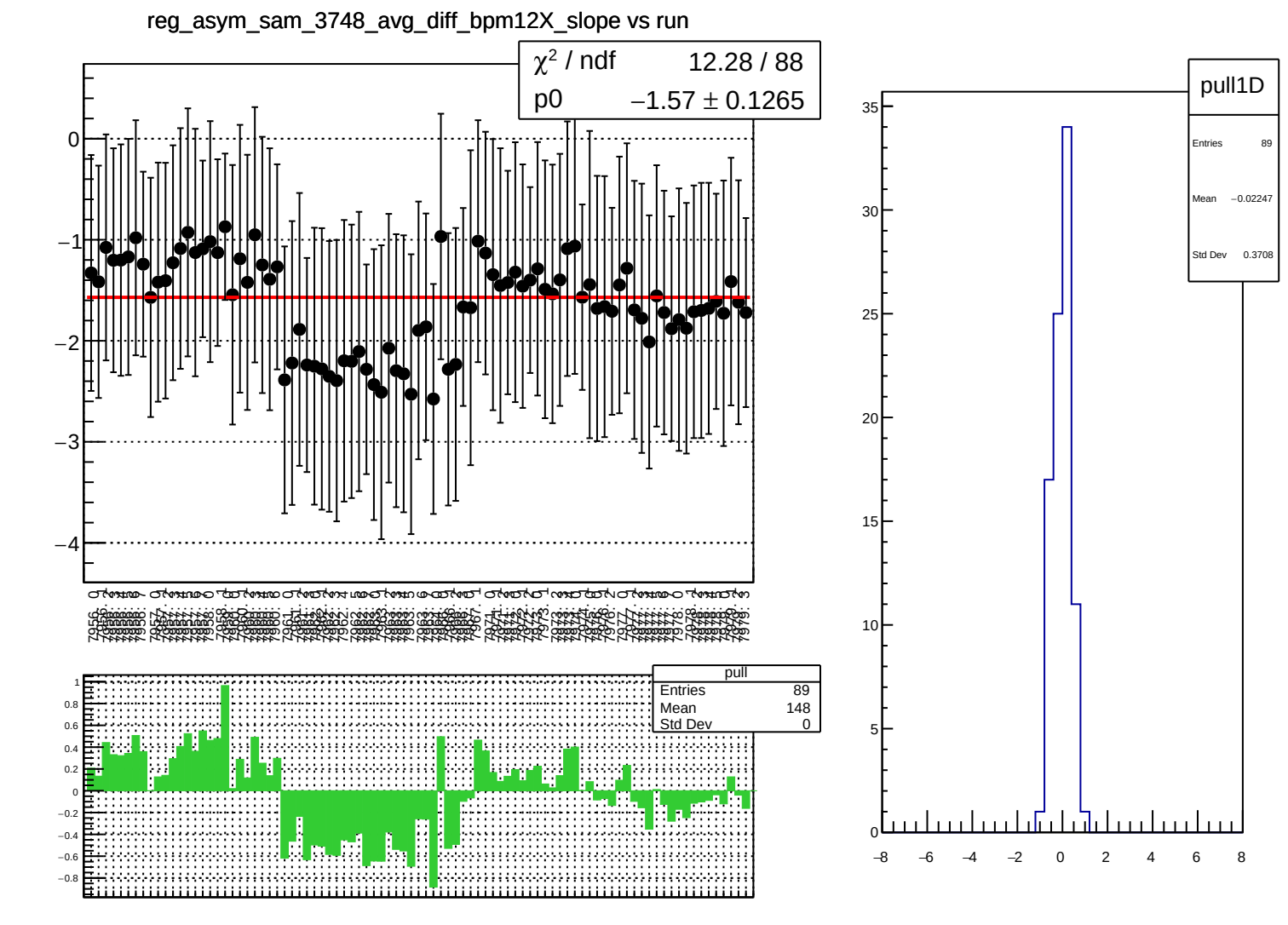

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.432 / 88
p0 35.35 ± 3.839
pull
Entries 89
Mean 51.47
Std Dev 76.26

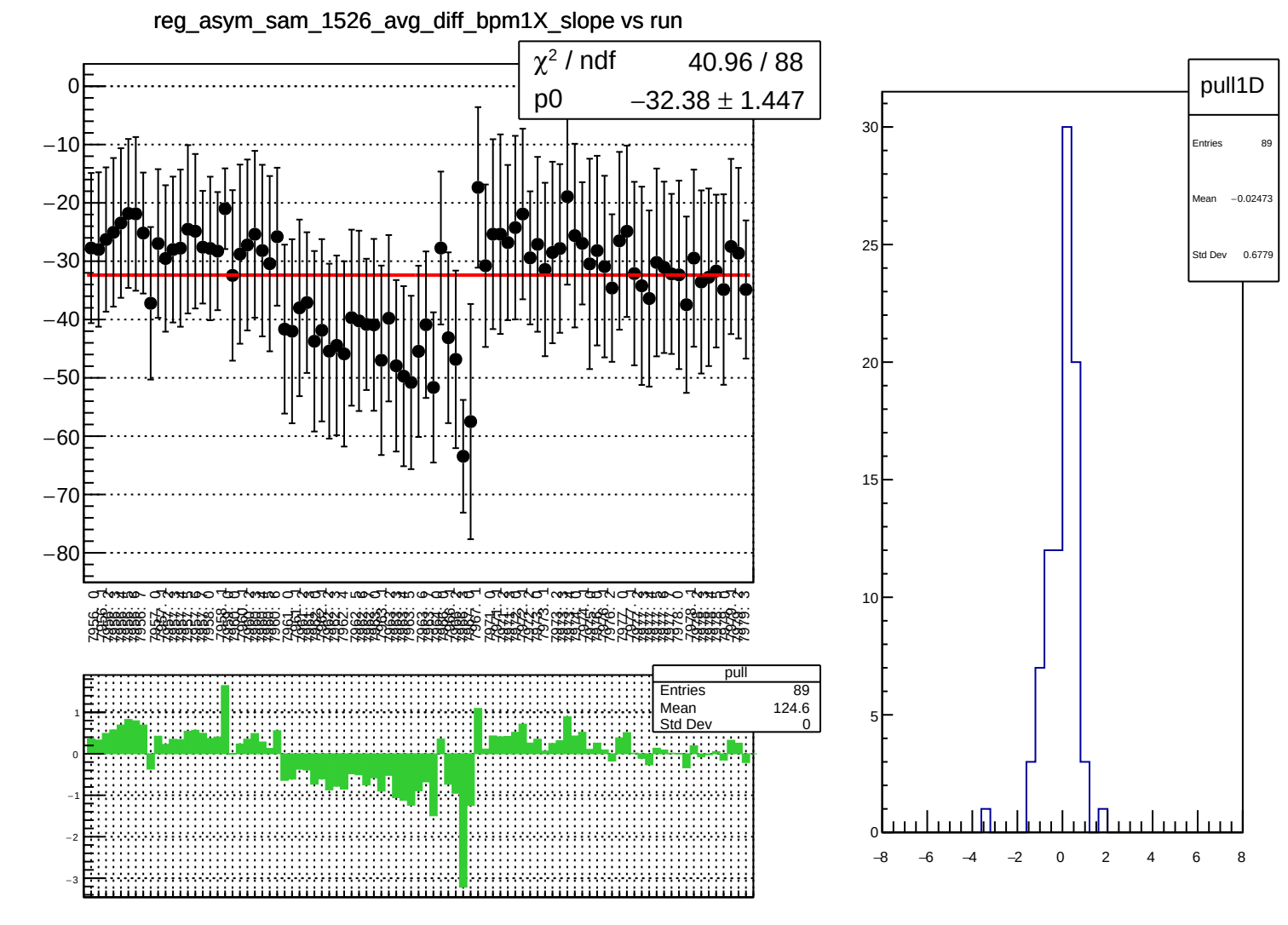

pull1D
Entries 89
Mean 0.004448
Std Dev 0.1653

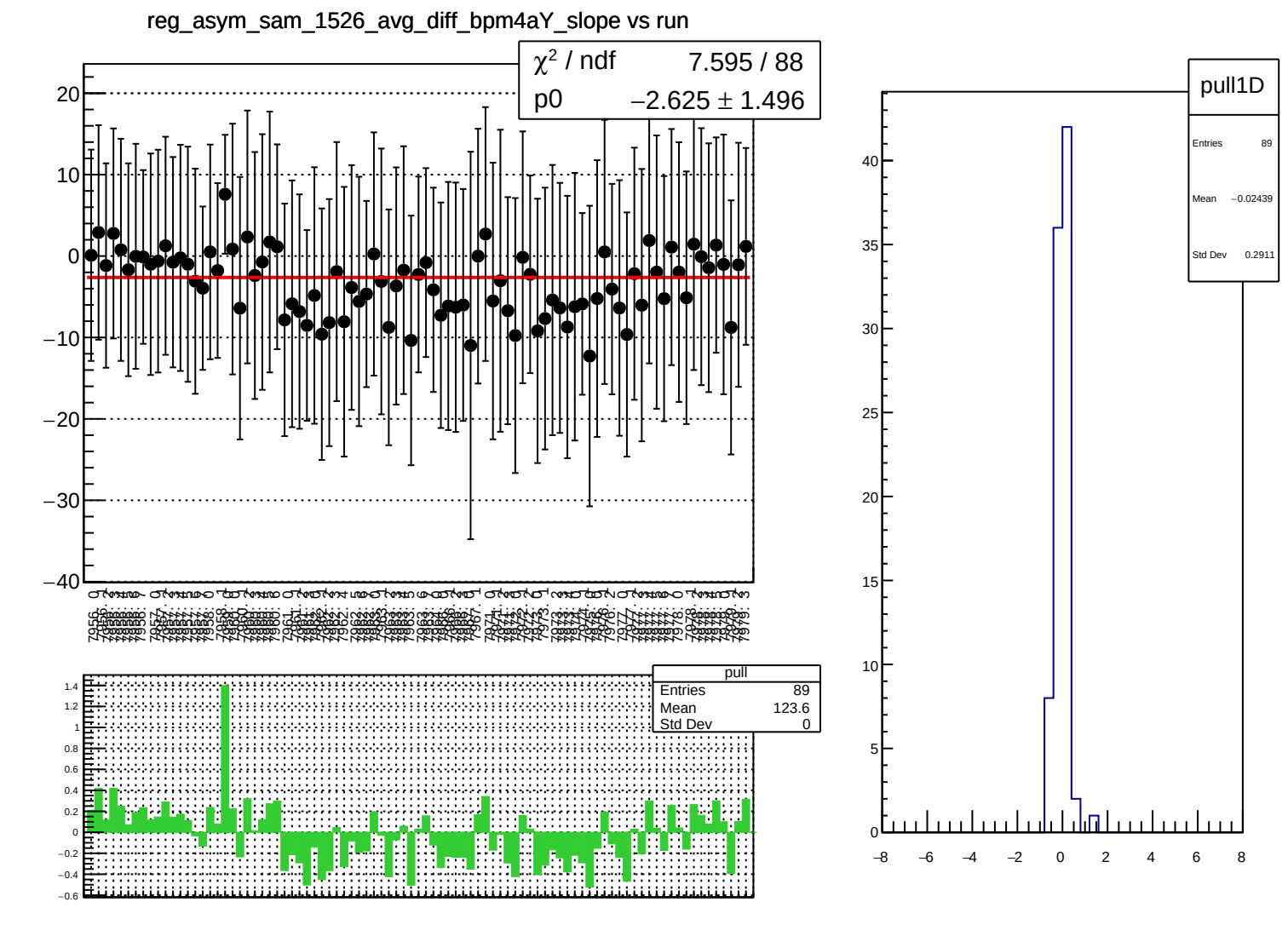

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.389 / 88
p0 −52.18 ± 3.286
pull
Entries 89
Mean 221.2
Std Dev 0
pull1D
Entries 89
Mean −0.01135
Std Dev 0.2458

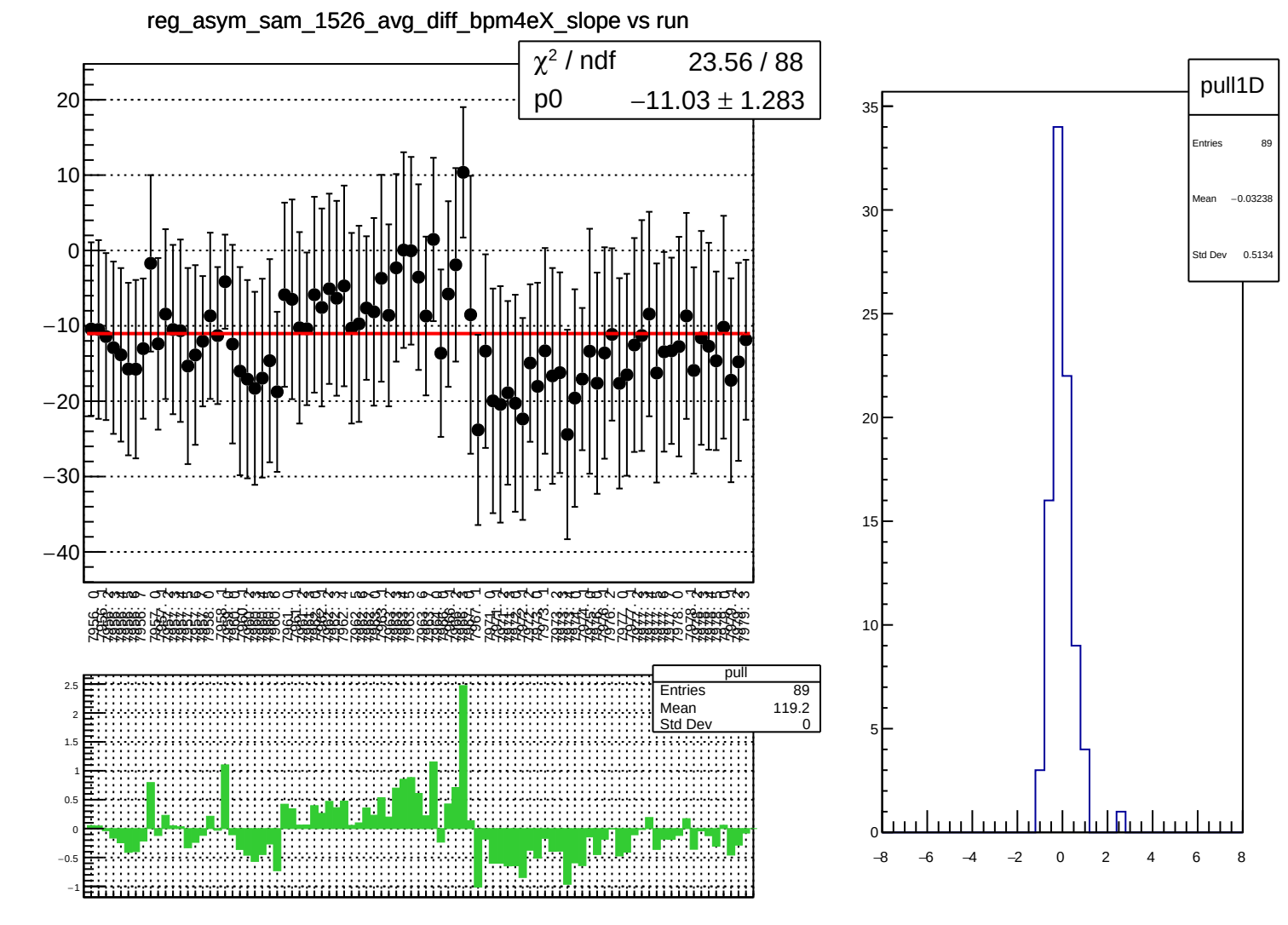

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.35 / 88
p0 24.38 ± 4.396
pull
Entries 89
Mean −271.9
Std Dev 140.2

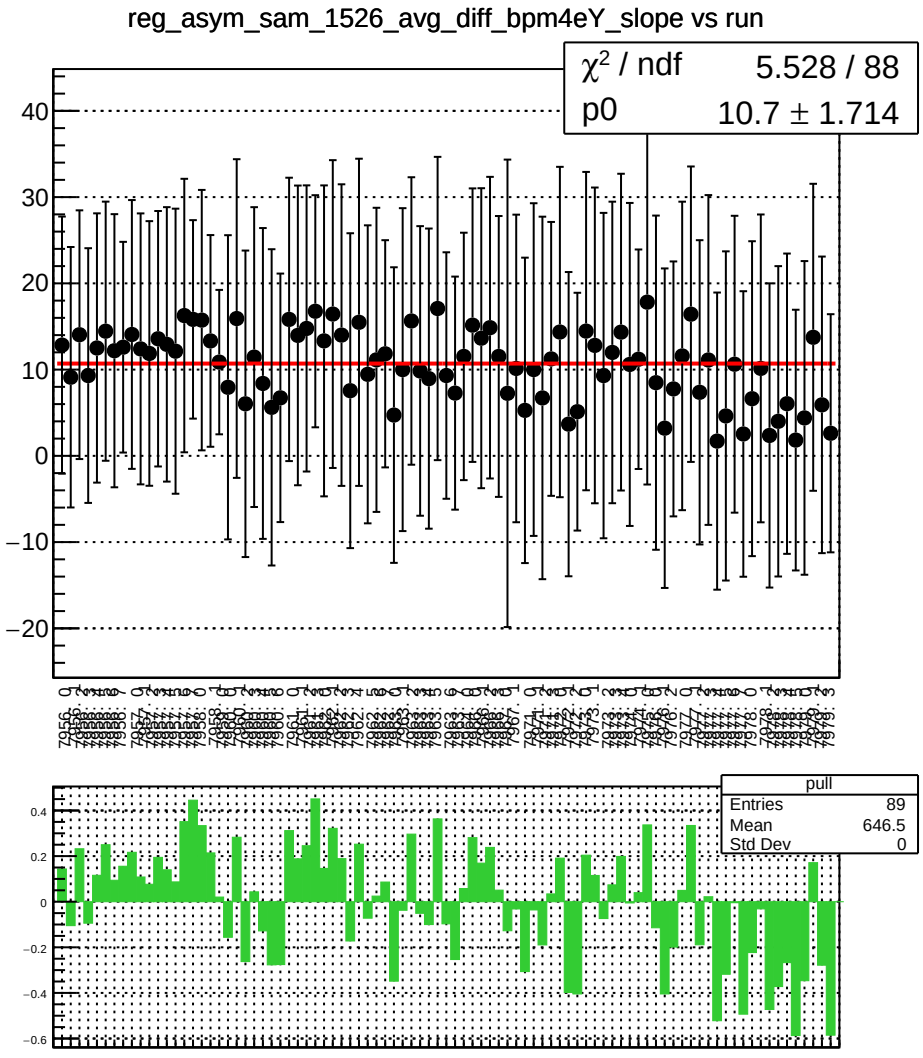

pull1D
Entries 89
Mean −0.0003415
Std Dev 0.1625

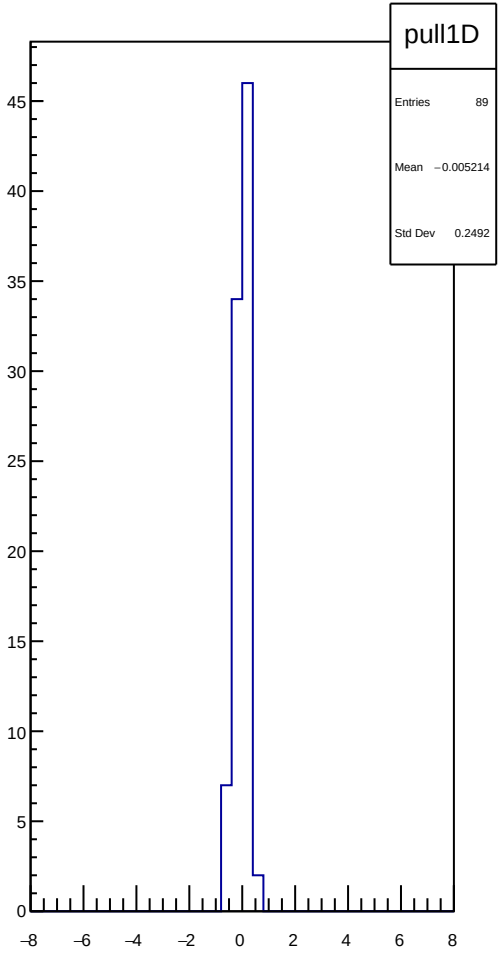

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 12.28 / 88
p0 −1.57 ± 0.1265
pull
Entries 89
Mean 148
Std Dev 0
pull1D
Entries 89
Mean −0.02247
Std Dev 0.3708

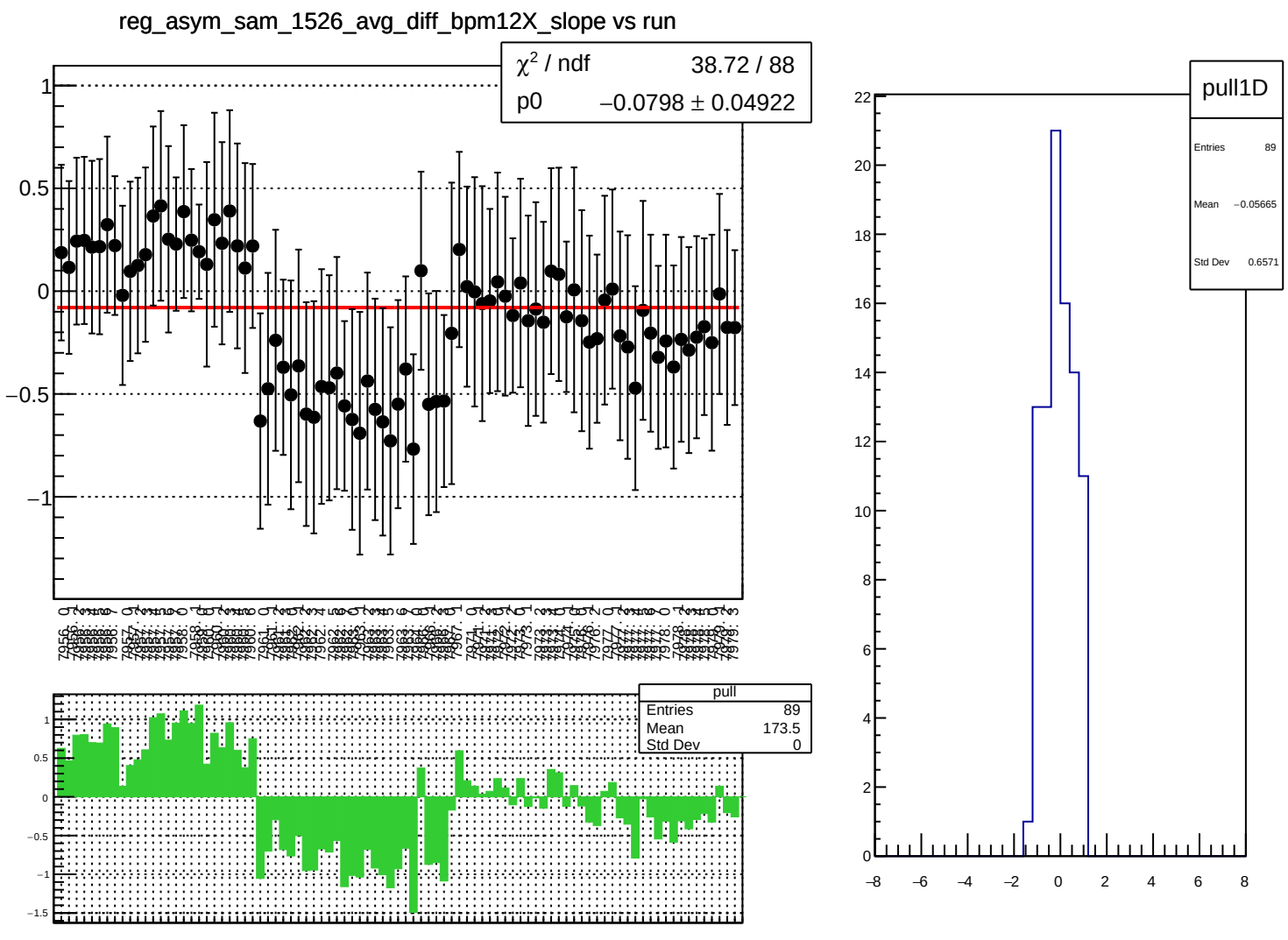

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 40.96 / 88
p0 −32.38 ± 1.447
pull
Entries 89
Mean 124.6
Std Dev 0
pull1D
Entries 89
Mean −0.02473
Std Dev 0.6779

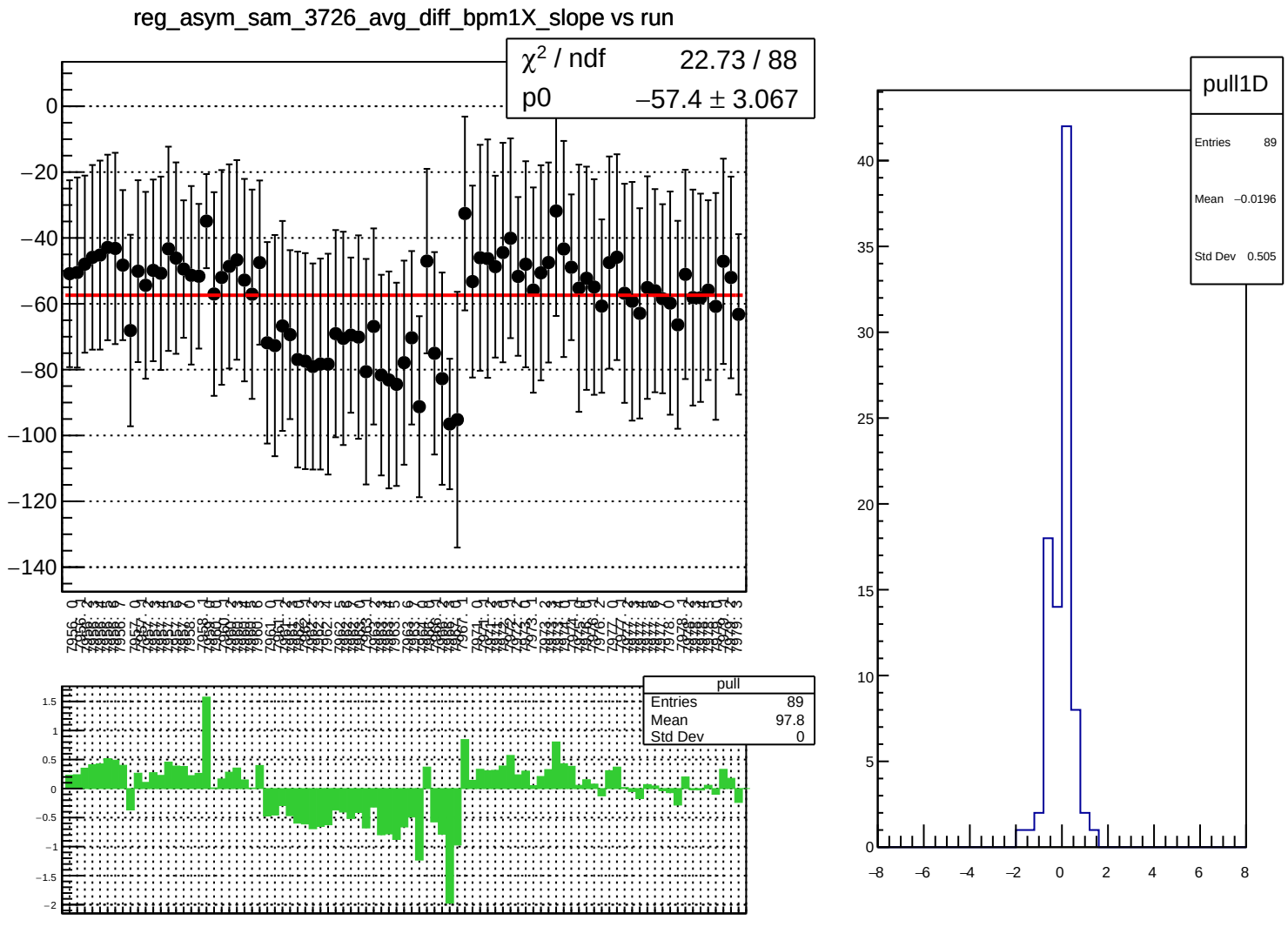

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.595 / 88
p0 −2.625 ± 1.496
pull
Entries 89
Mean 123.6
Std Dev 0
pull1D
Entries 89
Mean −0.02439
Std Dev 0.2911

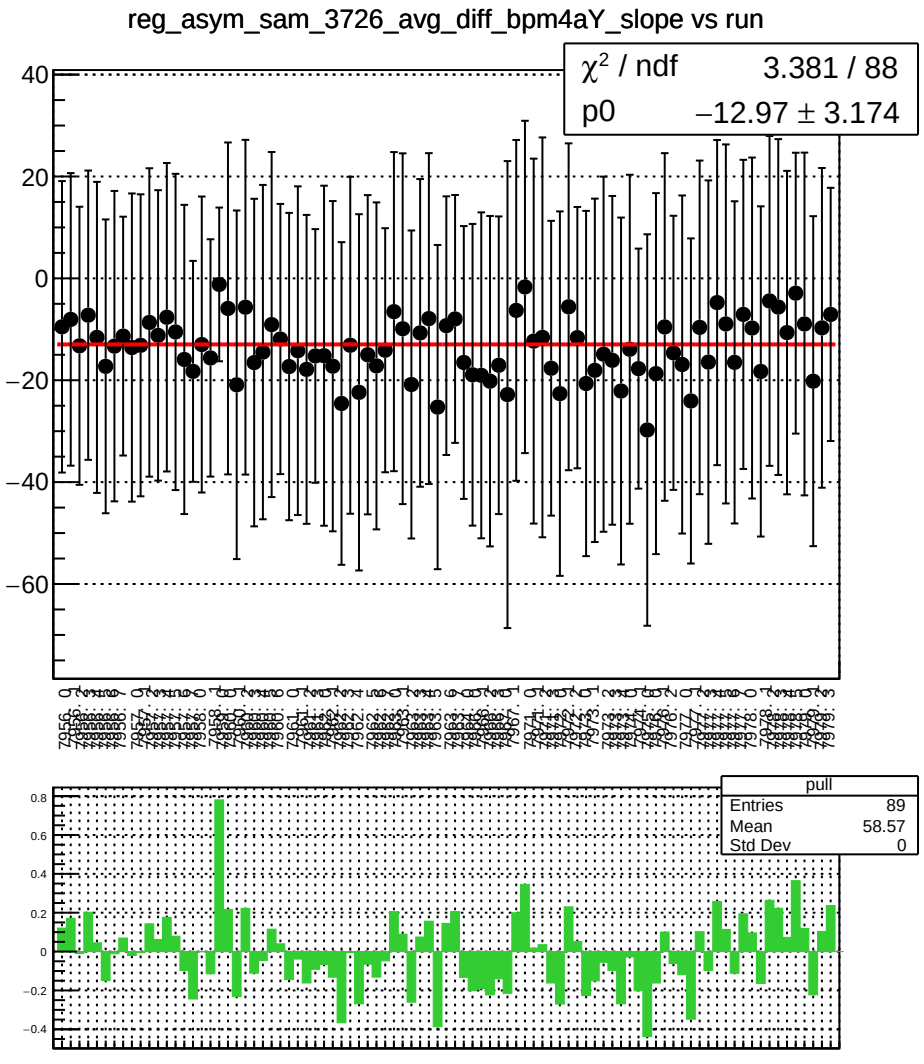

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.56 / 88
p0 −11.03 ± 1.283
pull
Entries 89
Mean 119.2
Std Dev 0
pull1D
Entries 89
Mean −0.03238
Std Dev 0.5134

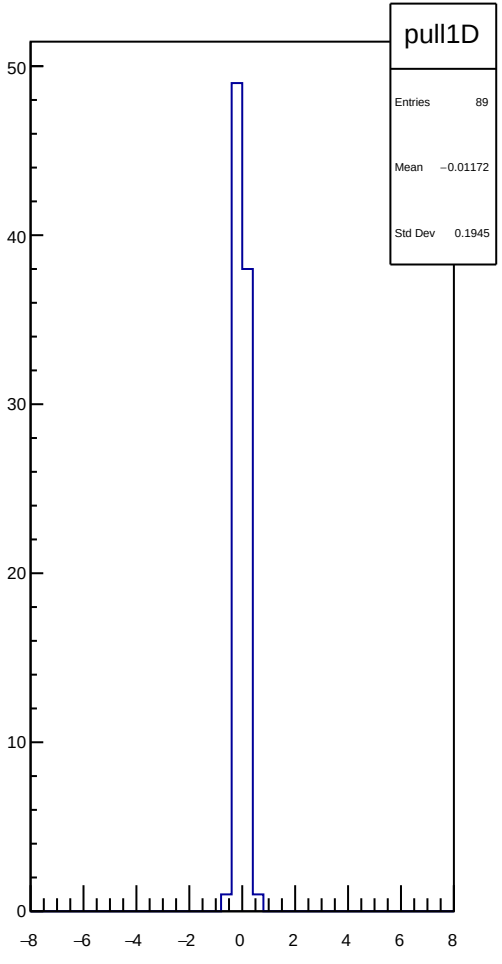

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.528 / 88
p0 10.7 ± 1.714
pull
Entries 89
Mean 646.5
Std Dev 0

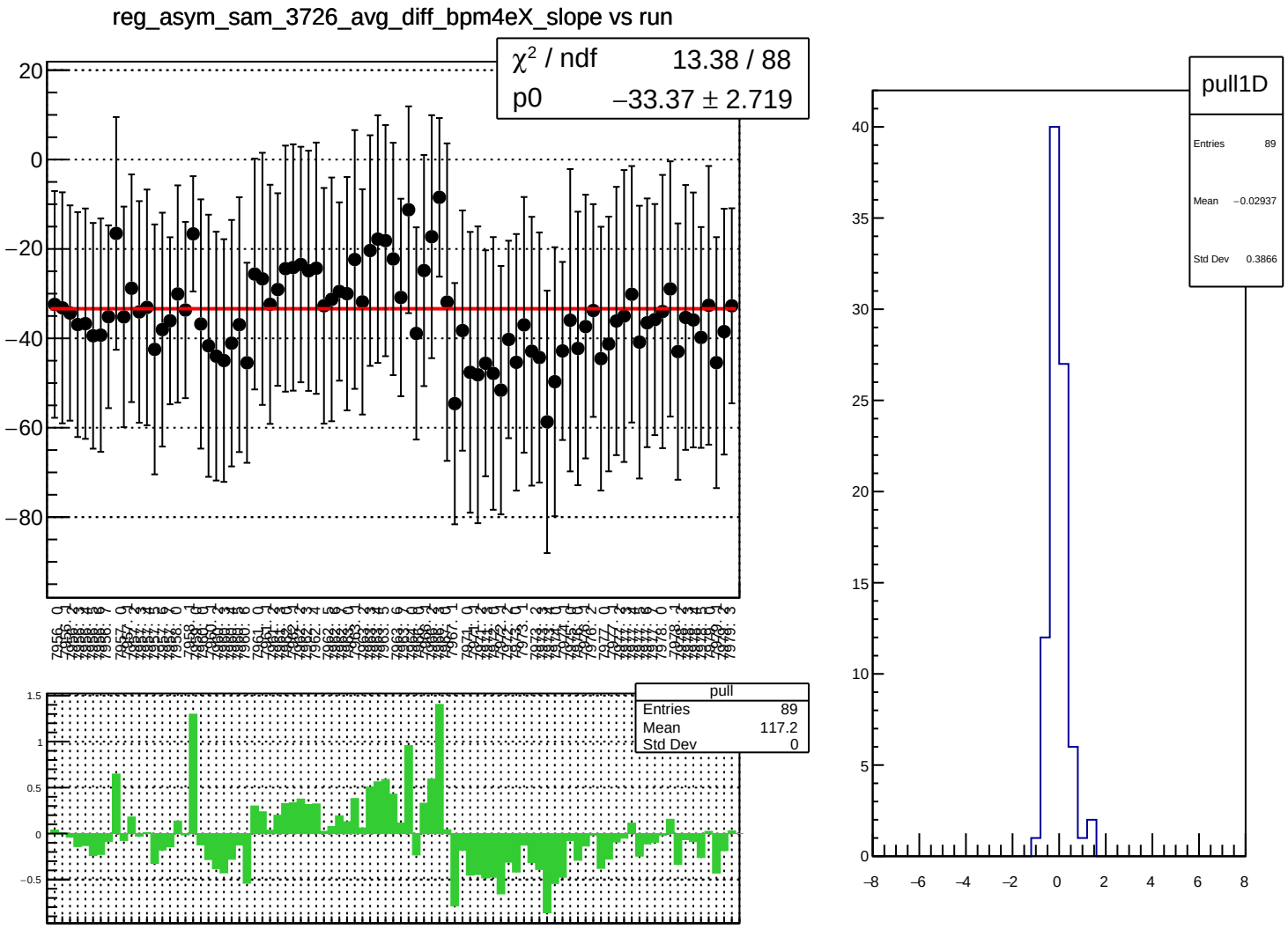

pull1D
Entries 89
Mean −0.005214
Std Dev 0.2492

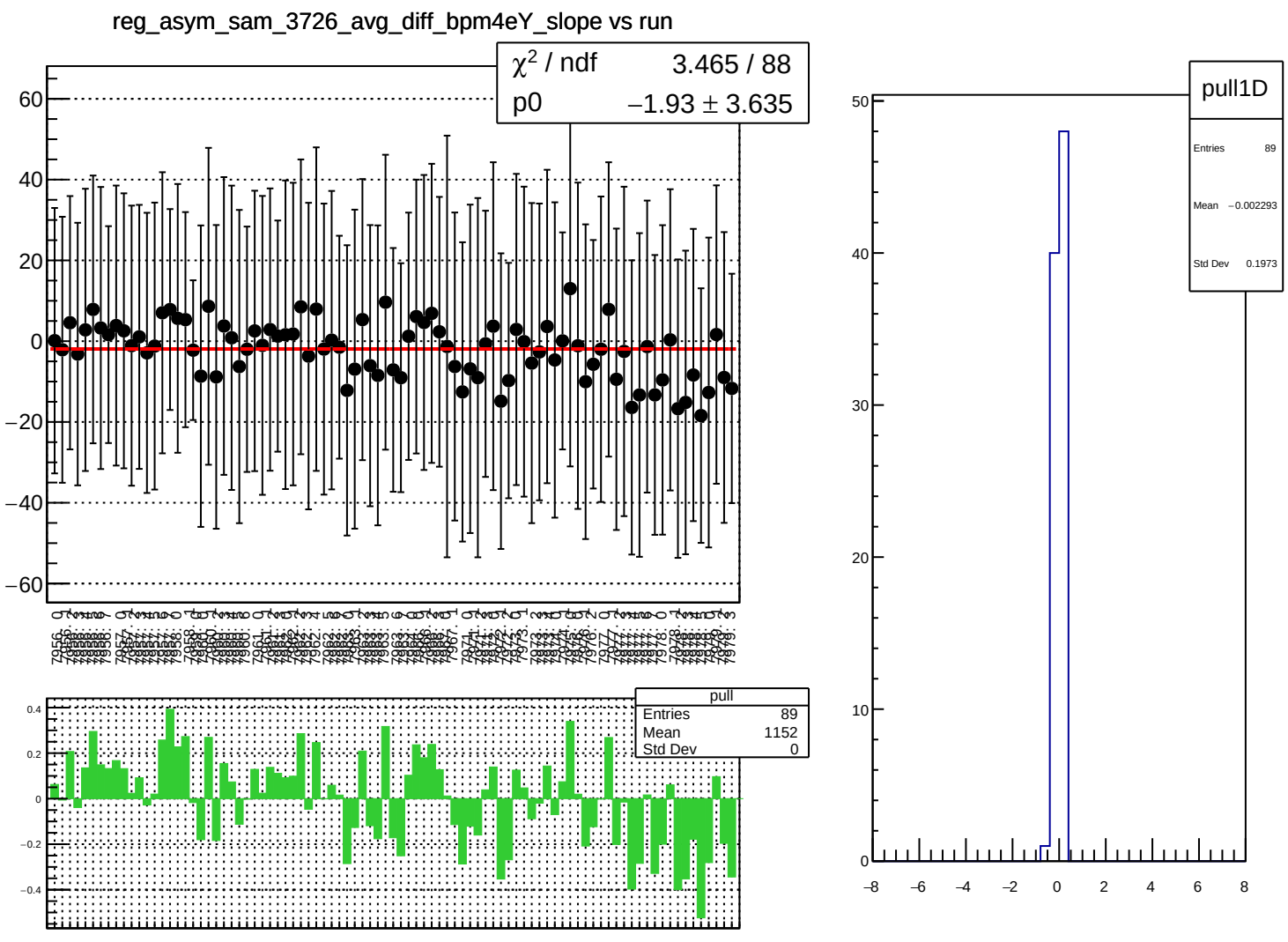

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 38.72 / 88
p0 −0.0798 ± 0.04922
pull
Entries 89
Mean 173.5
Std Dev 0
pull1D
Entries 89
Mean −0.05665
Std Dev 0.6571

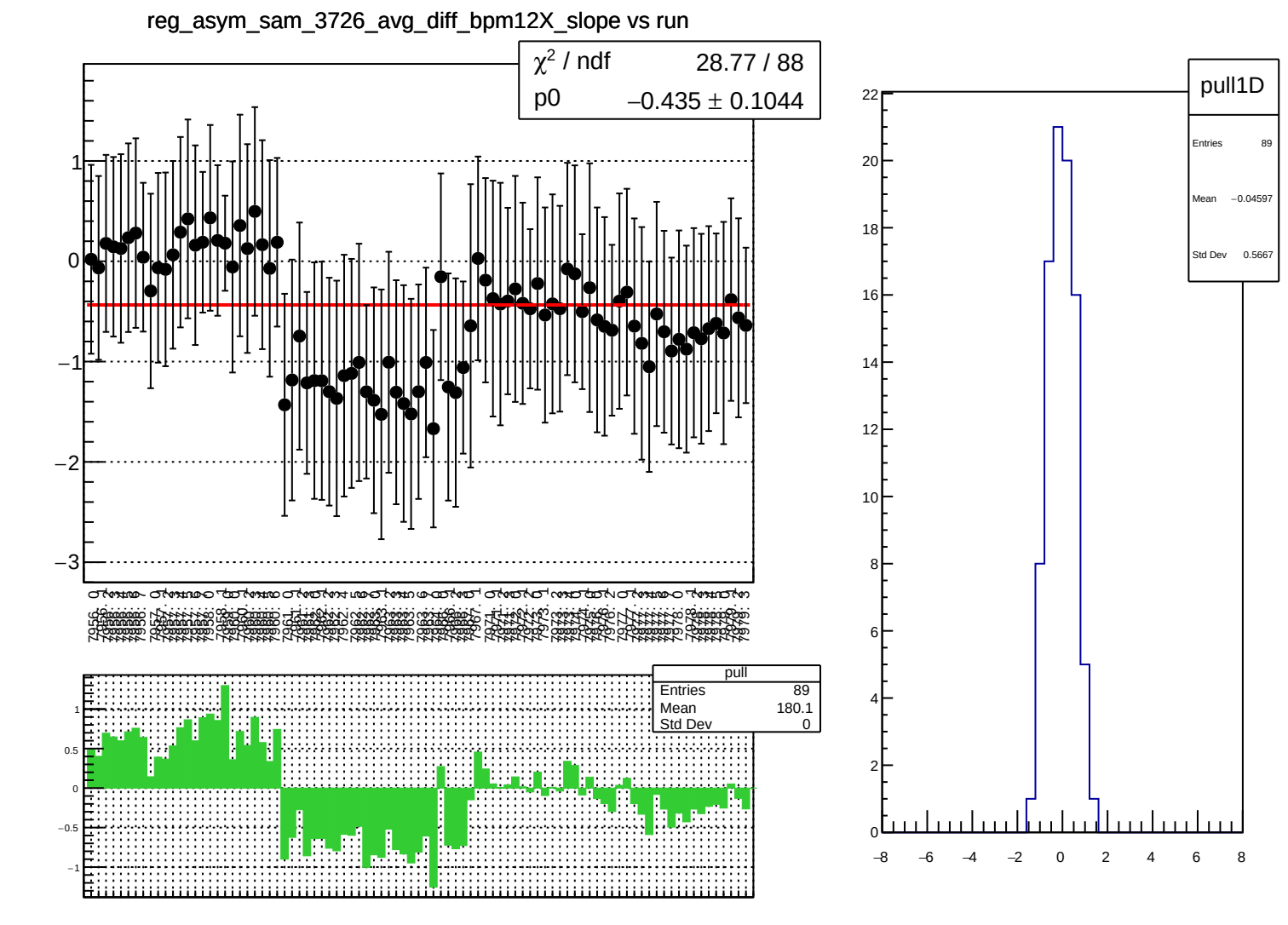

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 22.73 / 88
p0 −57.4 ± 3.067
pull
Entries 89
Mean 97.8
Std Dev 0
pull1D
Entries 89
Mean −0.0196
Std Dev 0.505

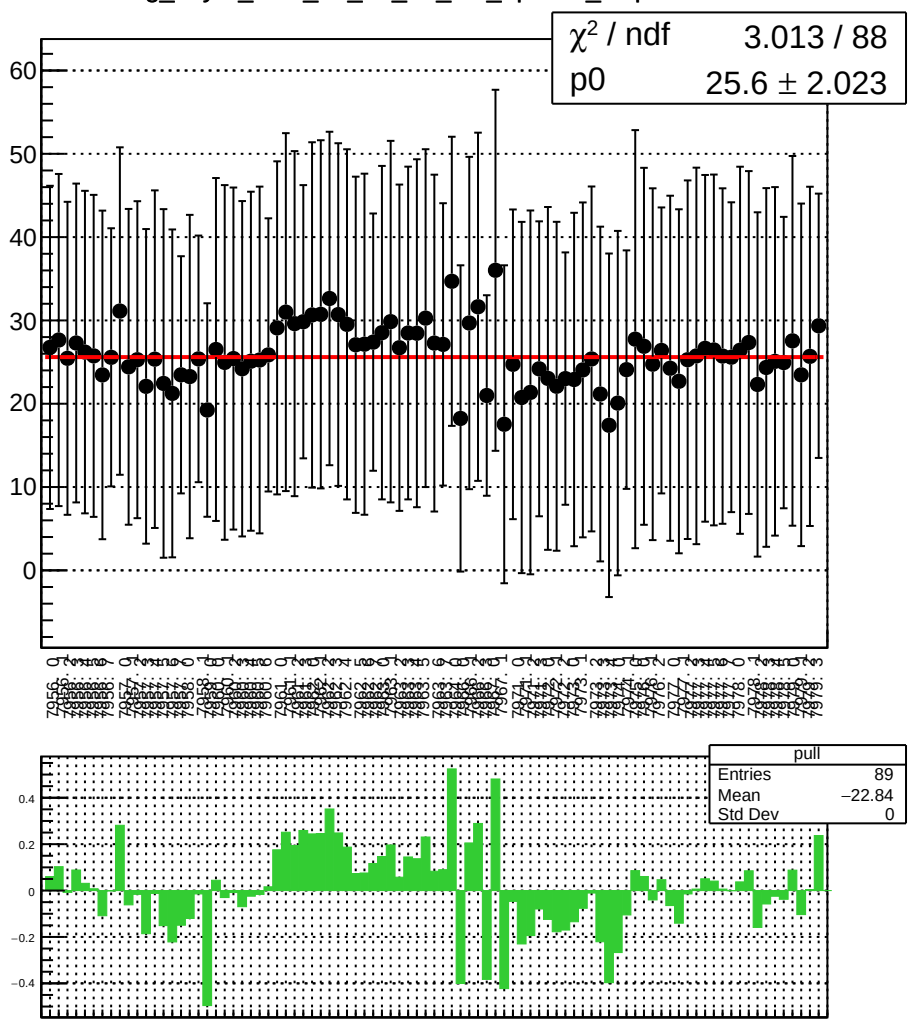

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.381 / 88
p0 −12.97 ± 3.174
pull
Entries 89
Mean 58.57
Std Dev 0

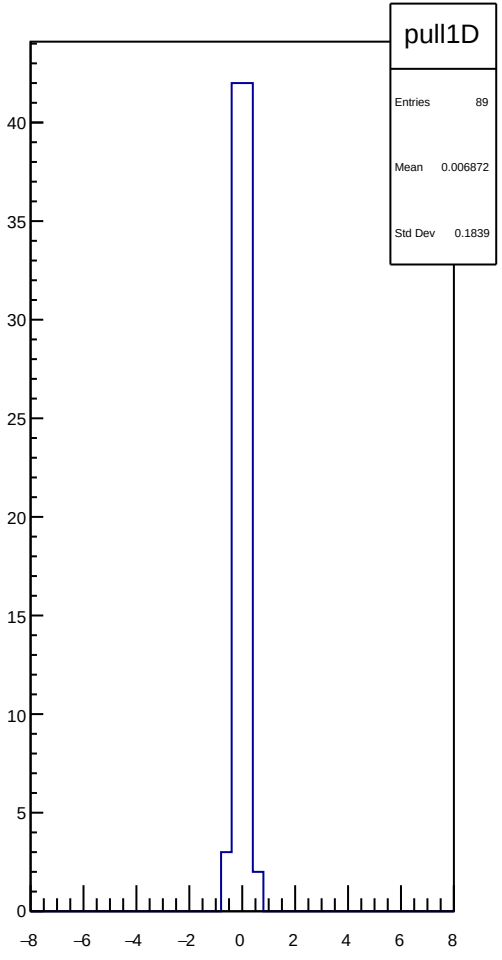

pull1D
Entries 89
Mean −0.01172
Std Dev 0.1945

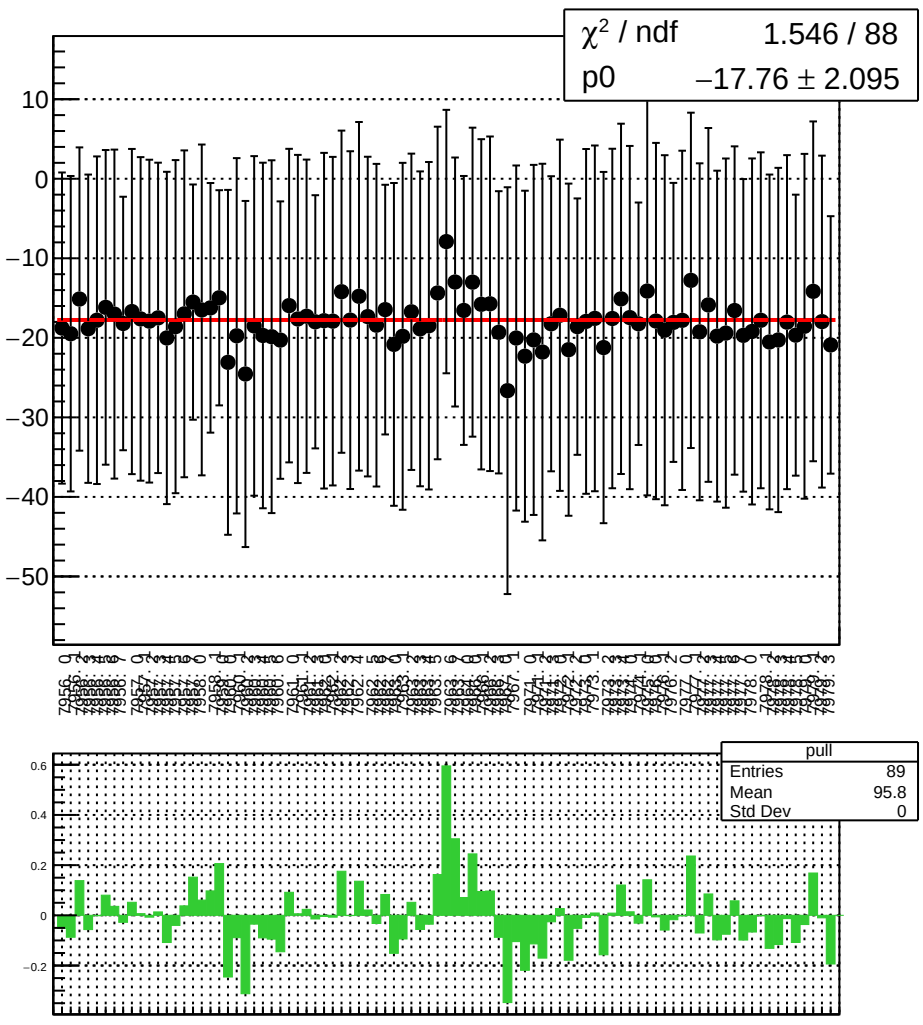

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.38 / 88
p0 −33.37 ± 2.719
pull
Entries 89
Mean 117.2
Std Dev 0
pull1D
Entries 89
Mean −0.02937
Std Dev 0.3866

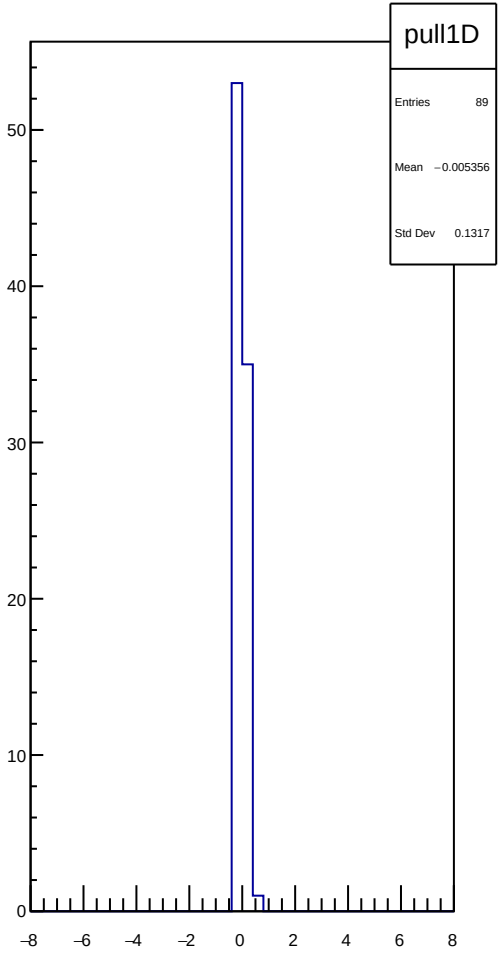

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.465 / 88
p0 −1.93 ± 3.635
pull
Entries 89
Mean 1152
Std Dev 0
pull1D
Entries 89
Mean −0.002293
Std Dev 0.1973

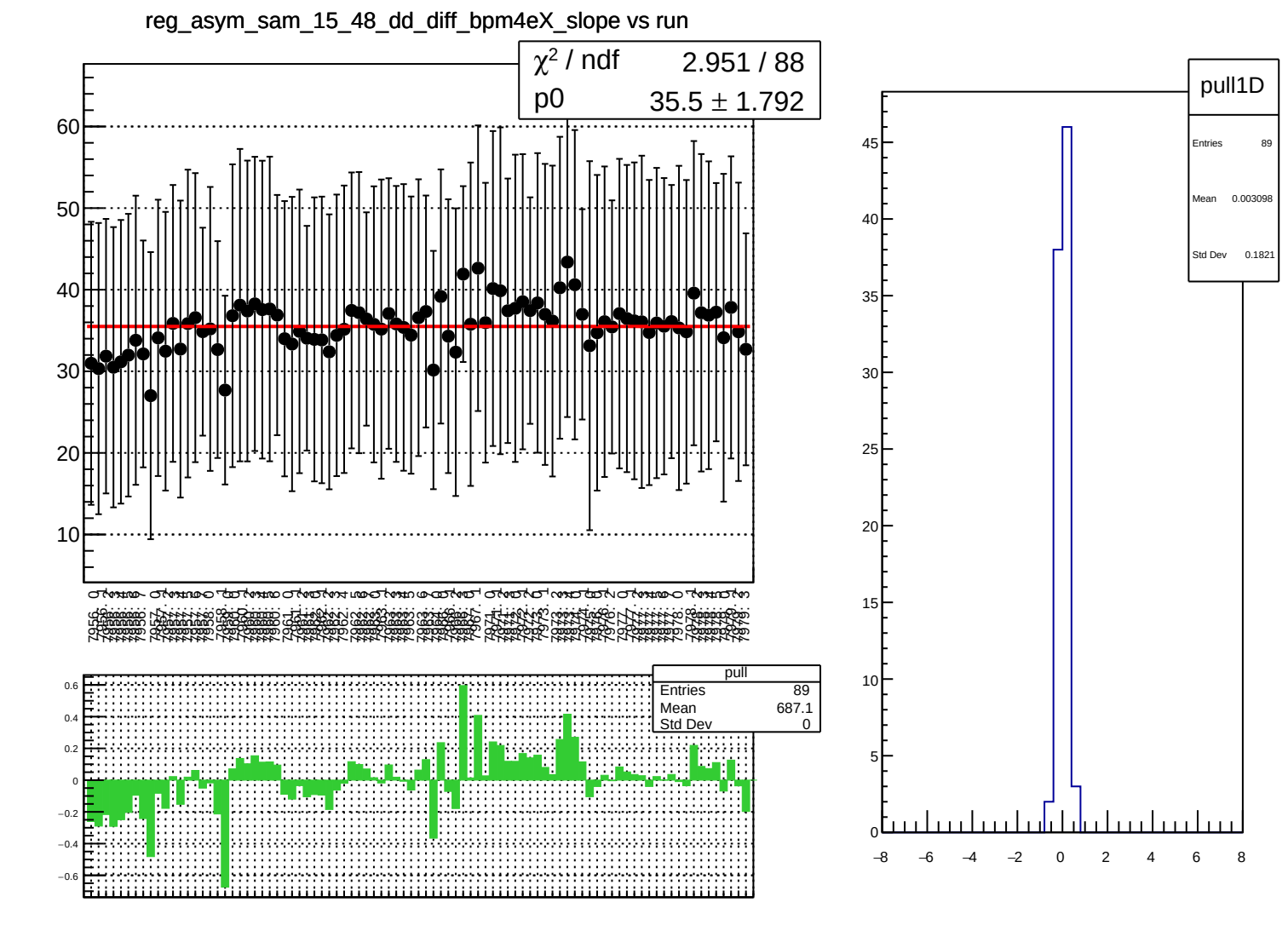

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 28.77 / 88
p0 −0.435 ± 0.1044
pull
Entries 89
Mean 180.1
Std Dev 0
pull1D
Entries 89
Mean −0.04597
Std Dev 0.5667

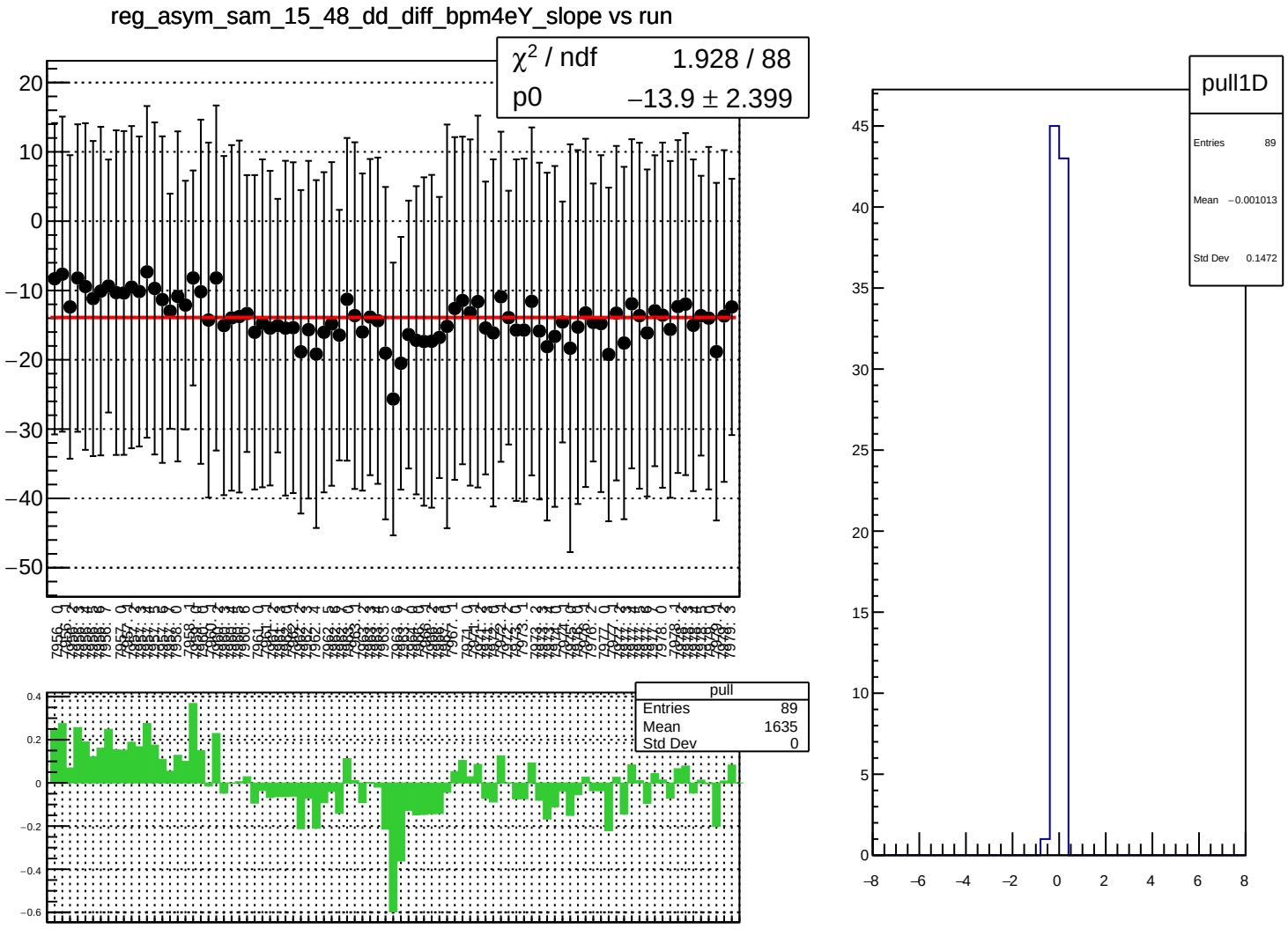

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.013 / 88
p0 25.6 ± 2.023
pull
Entries 89
Mean −22.84
Std Dev 0

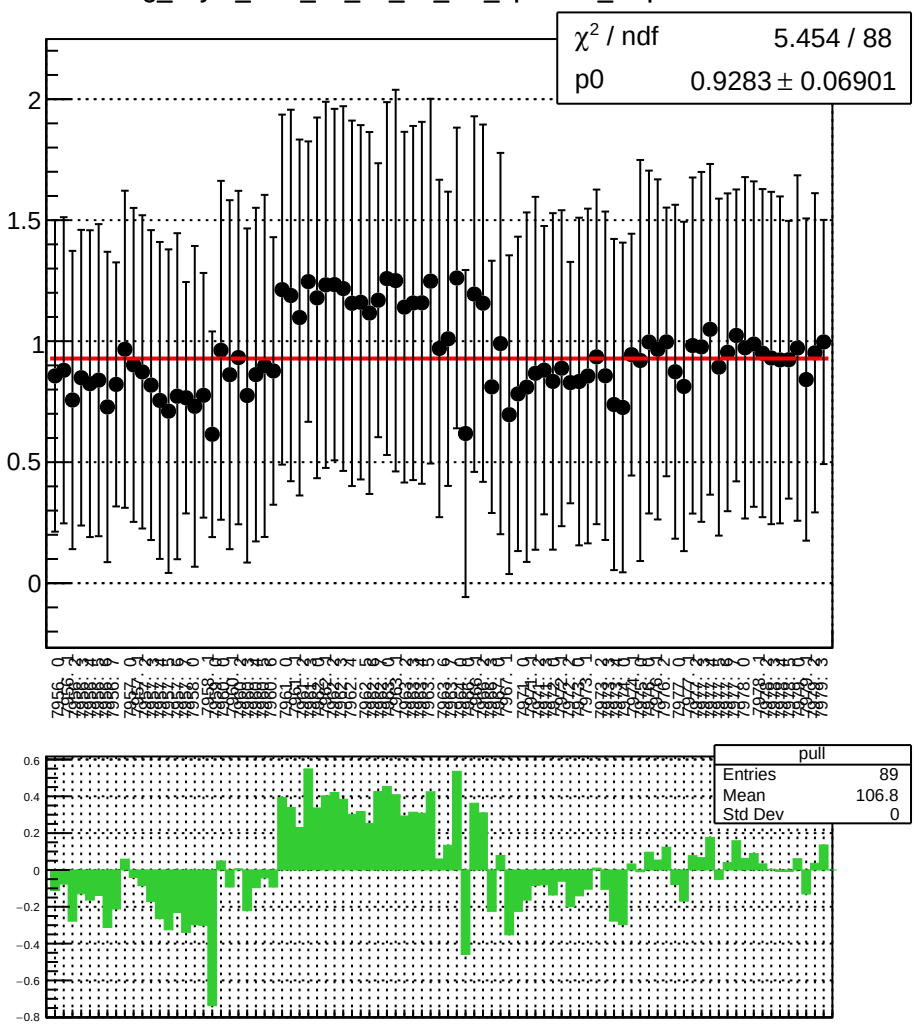

pull1D
Entries 89
Mean 0.006872
Std Dev 0.1839

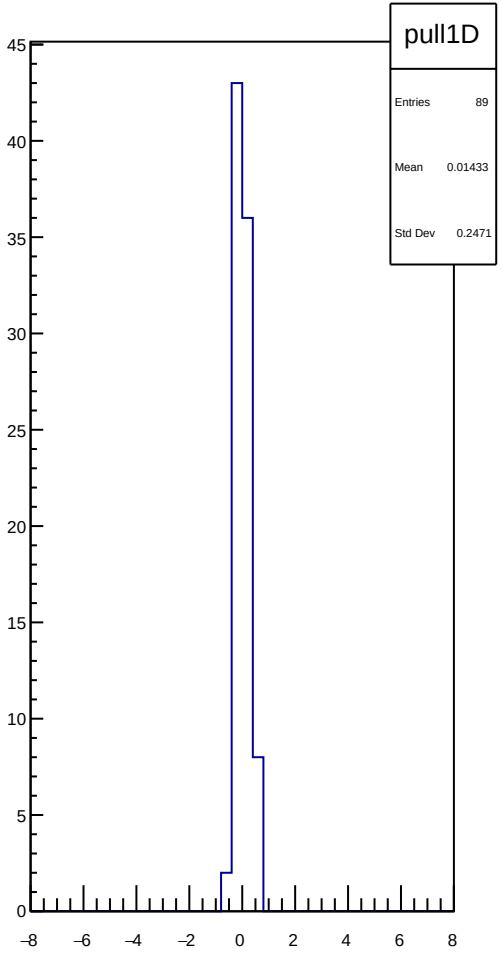

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.546 / 88
p0 −17.76 ± 2.095
pull
Entries 89
Mean 95.8
Std Dev 0

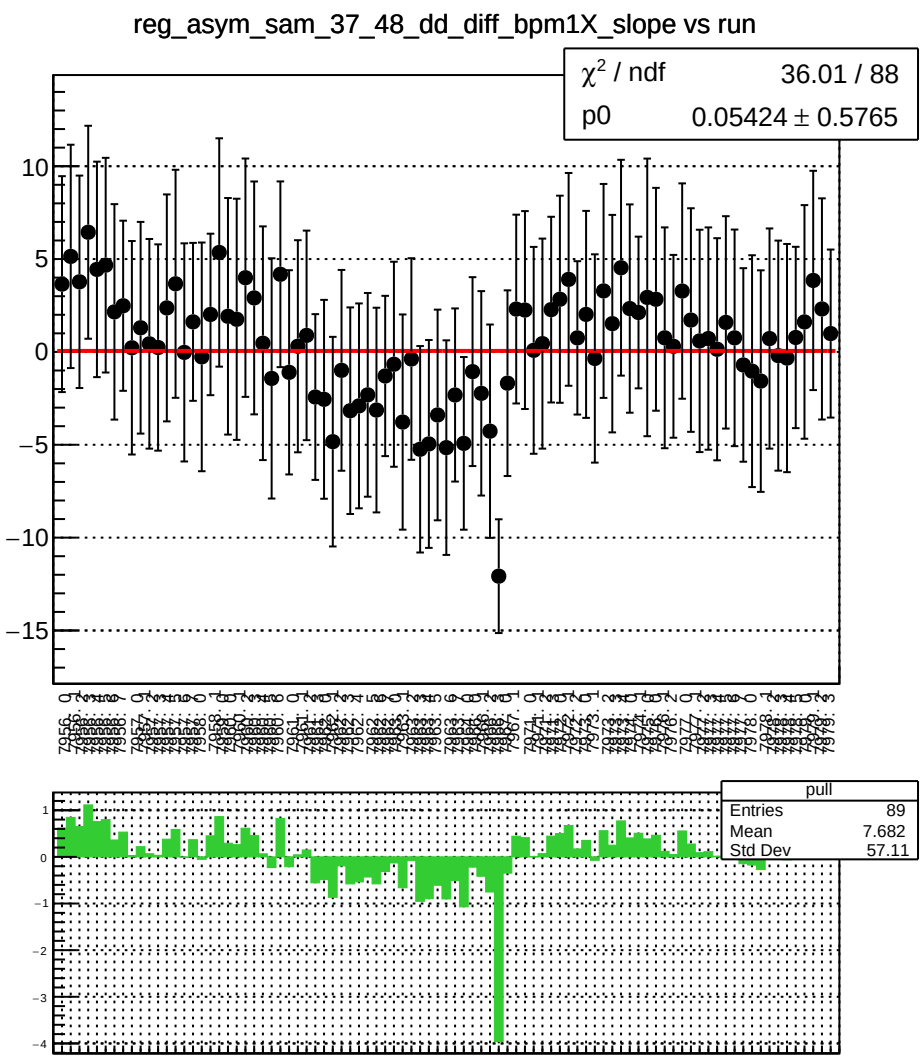

pull1D
Entries 89
Mean −0.005356
Std Dev 0.1317

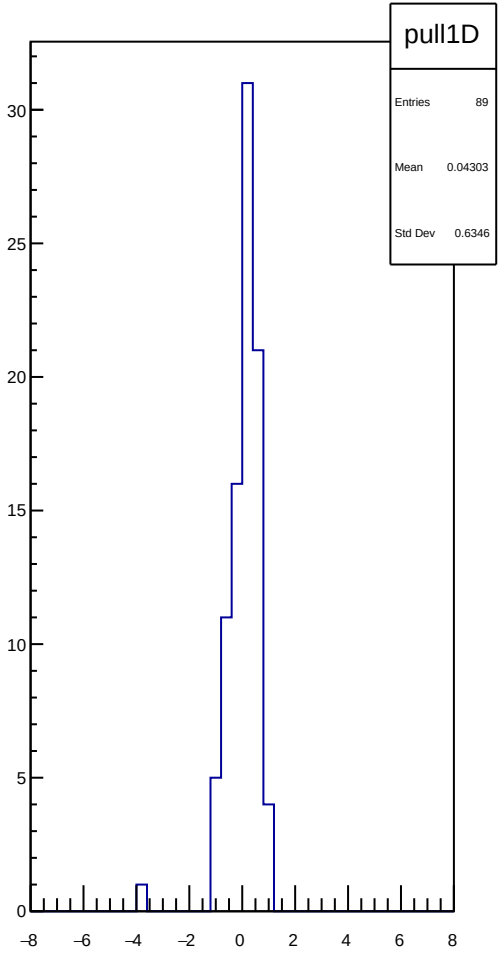

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.951 / 88
p0 35.5 ± 1.792
pull
Entries 89
Mean 687.1
Std Dev 0
pull1D
Entries 89
Mean 0.003098
Std Dev 0.1821

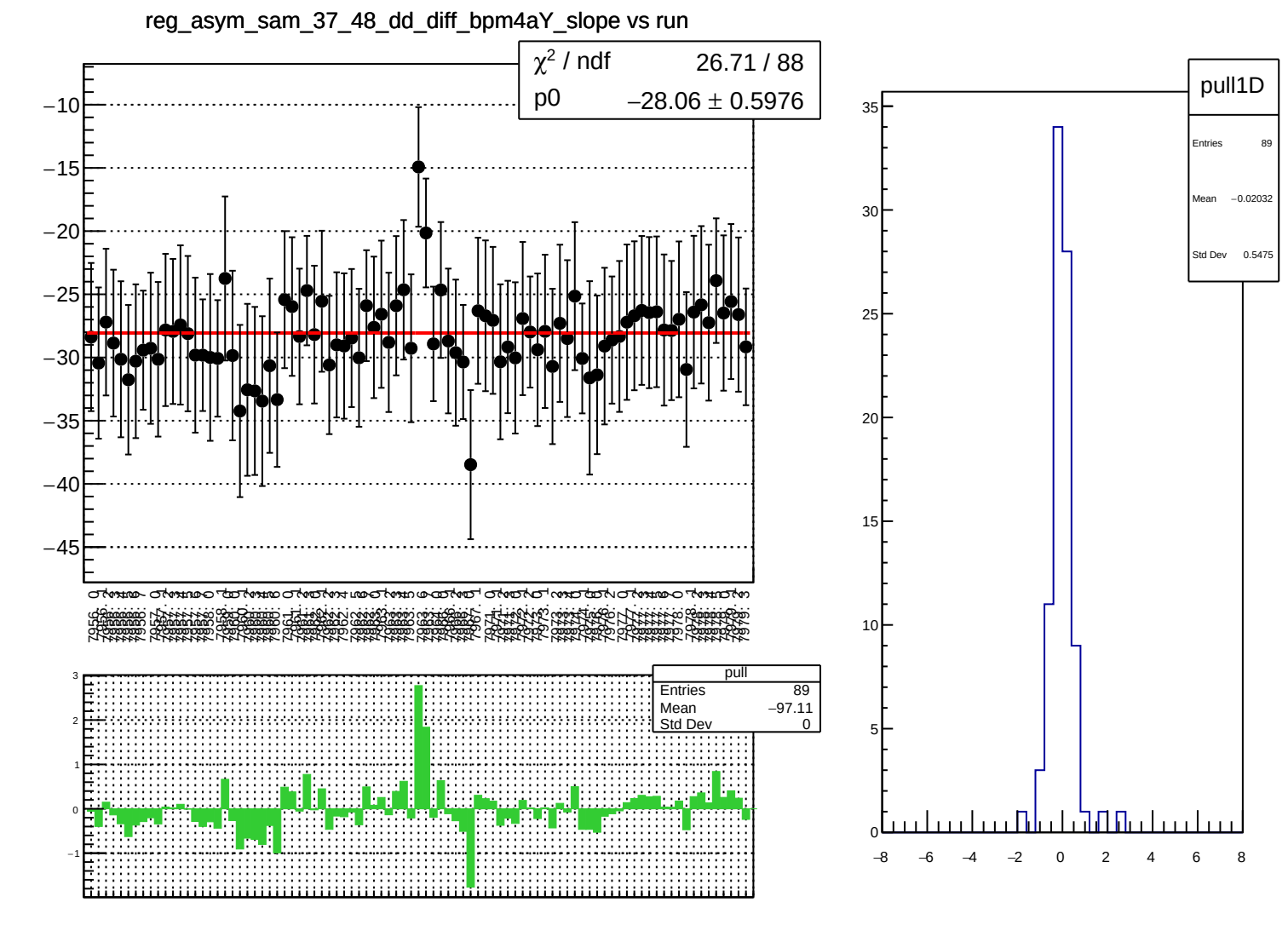

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.928 / 88
p0 −13.9 ± 2.399
pull
Entries 89
Mean 1635
Std Dev 0
pull1D
Entries 89
Mean −0.001013
Std Dev 0.1472

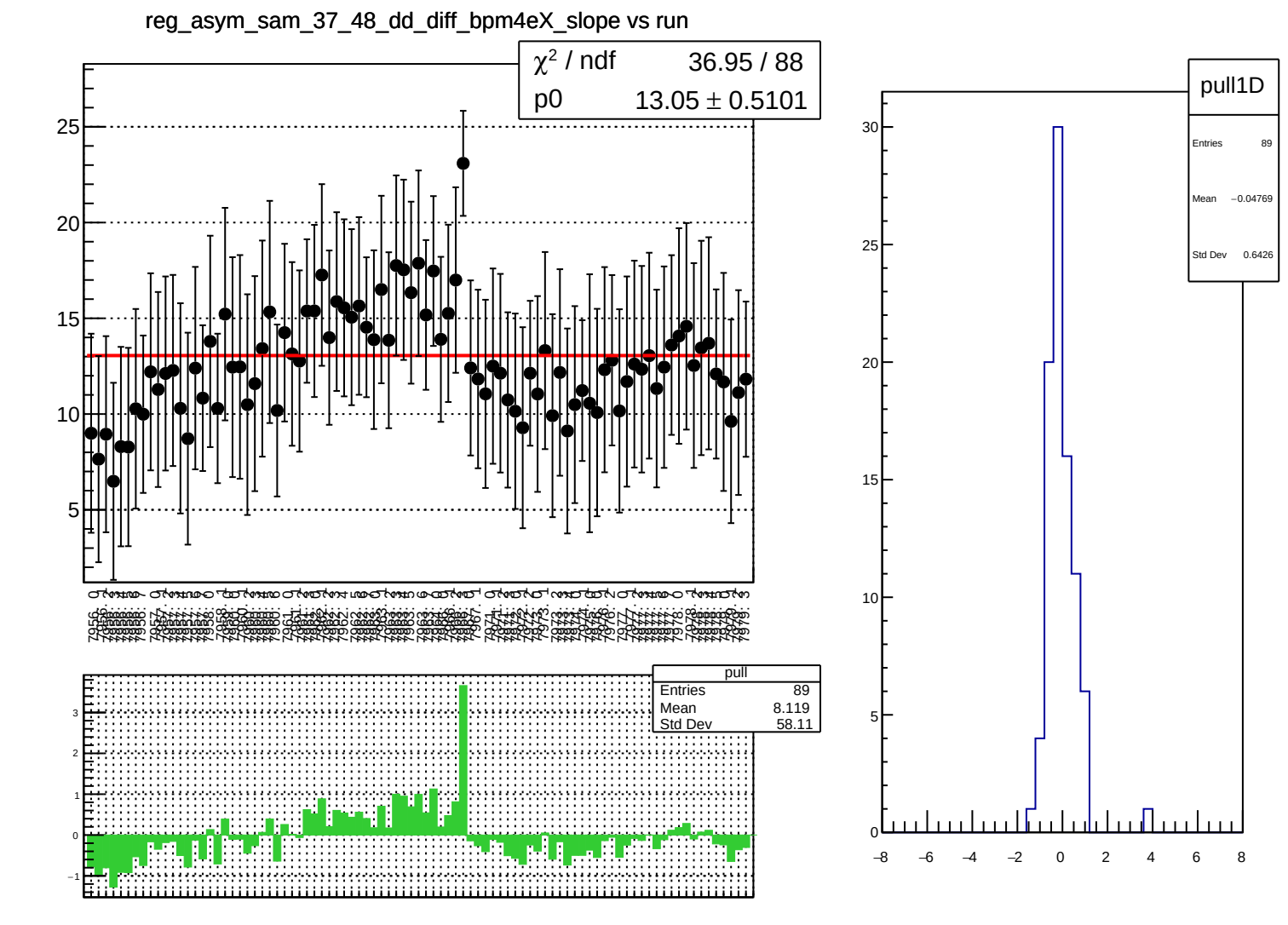

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.454 / 88
p0 0.9283 ± 0.06901
pull
Entries 89
Mean 106.8
Std Dev 0

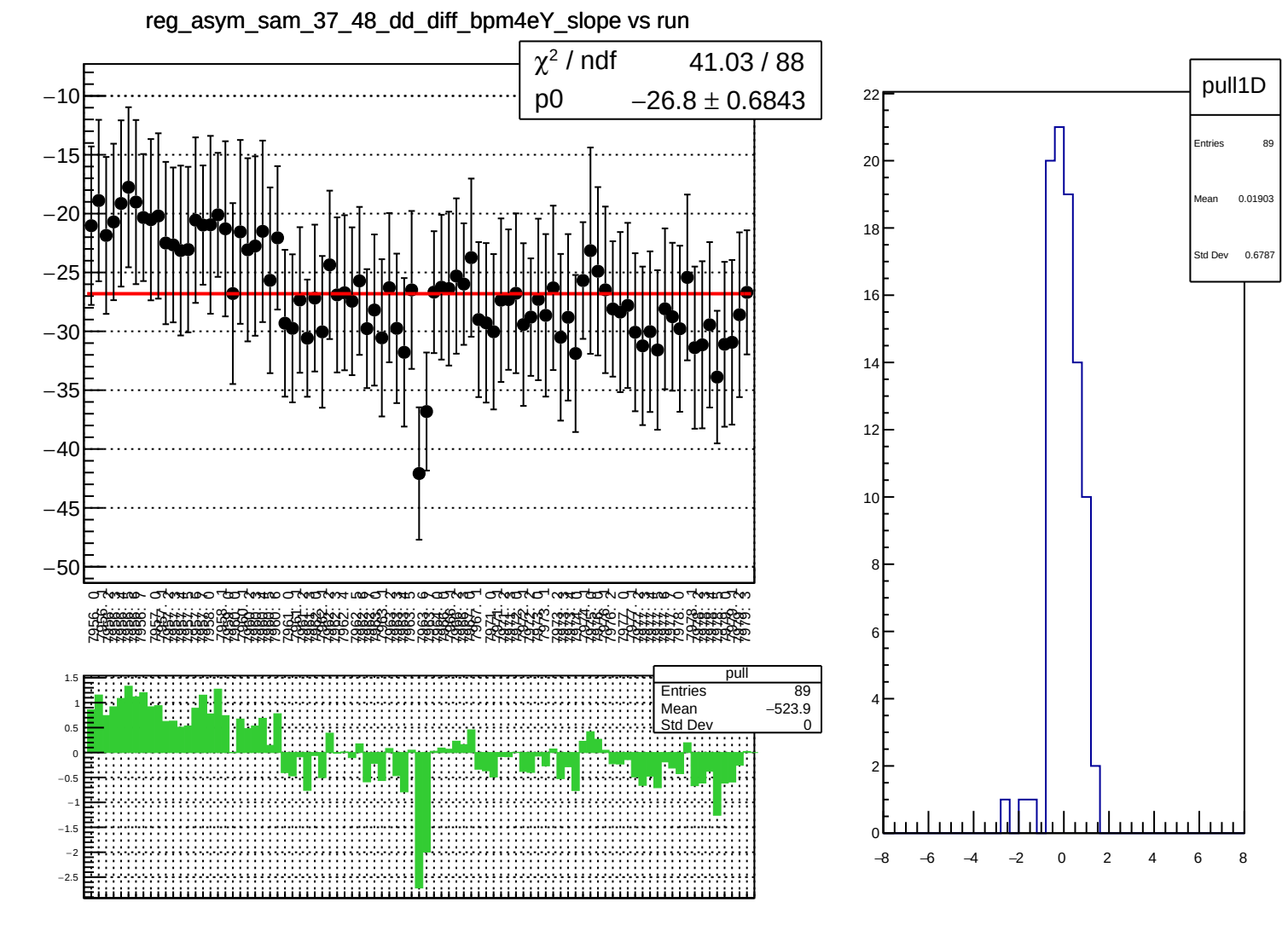

pull1D
Entries 89
Mean 0.01433
Std Dev 0.2471

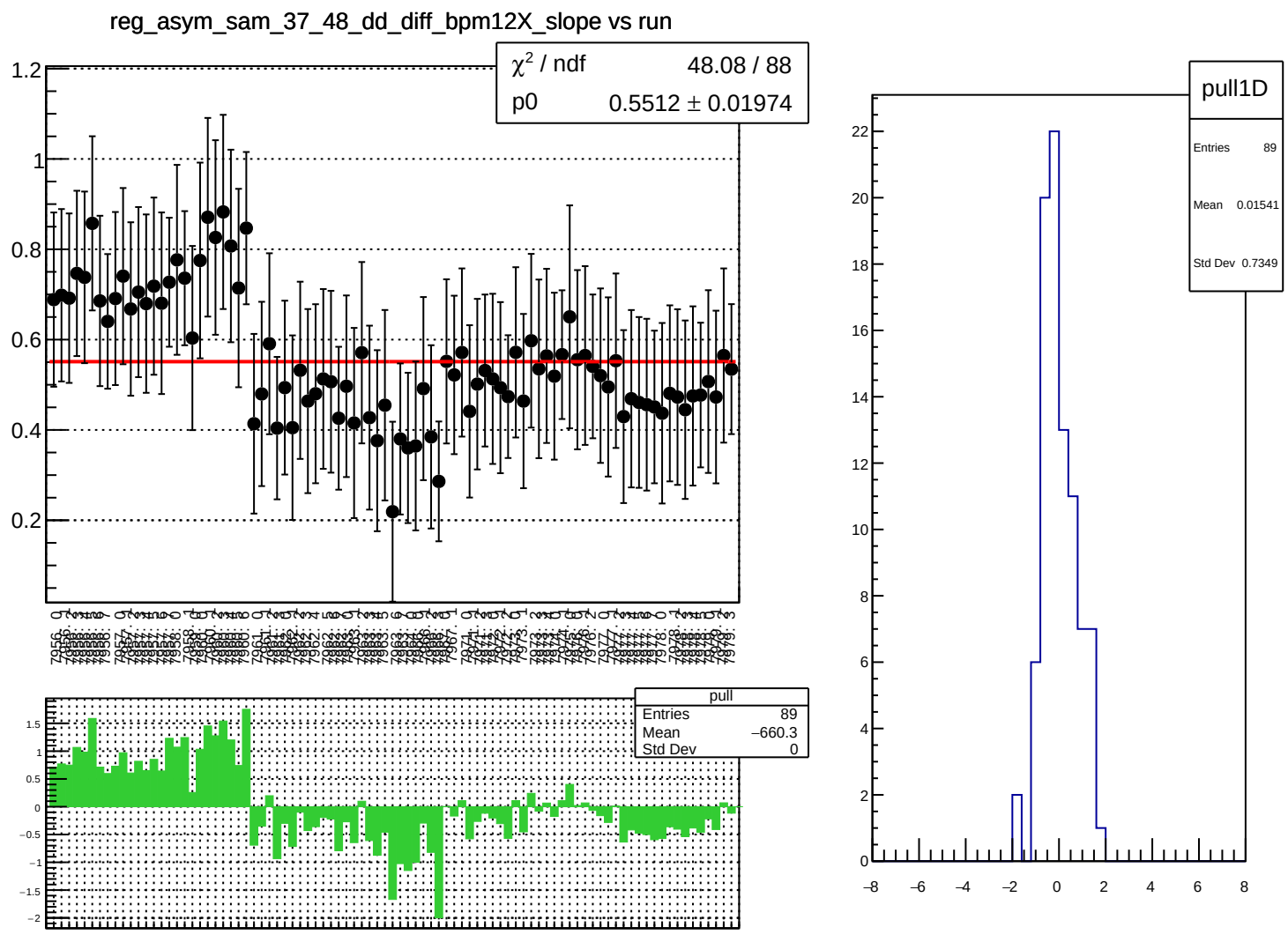

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 36.01 / 88
p0 0.05424 ± 0.5765
pull
Entries 89
Mean 7.682
Std Dev 57.11

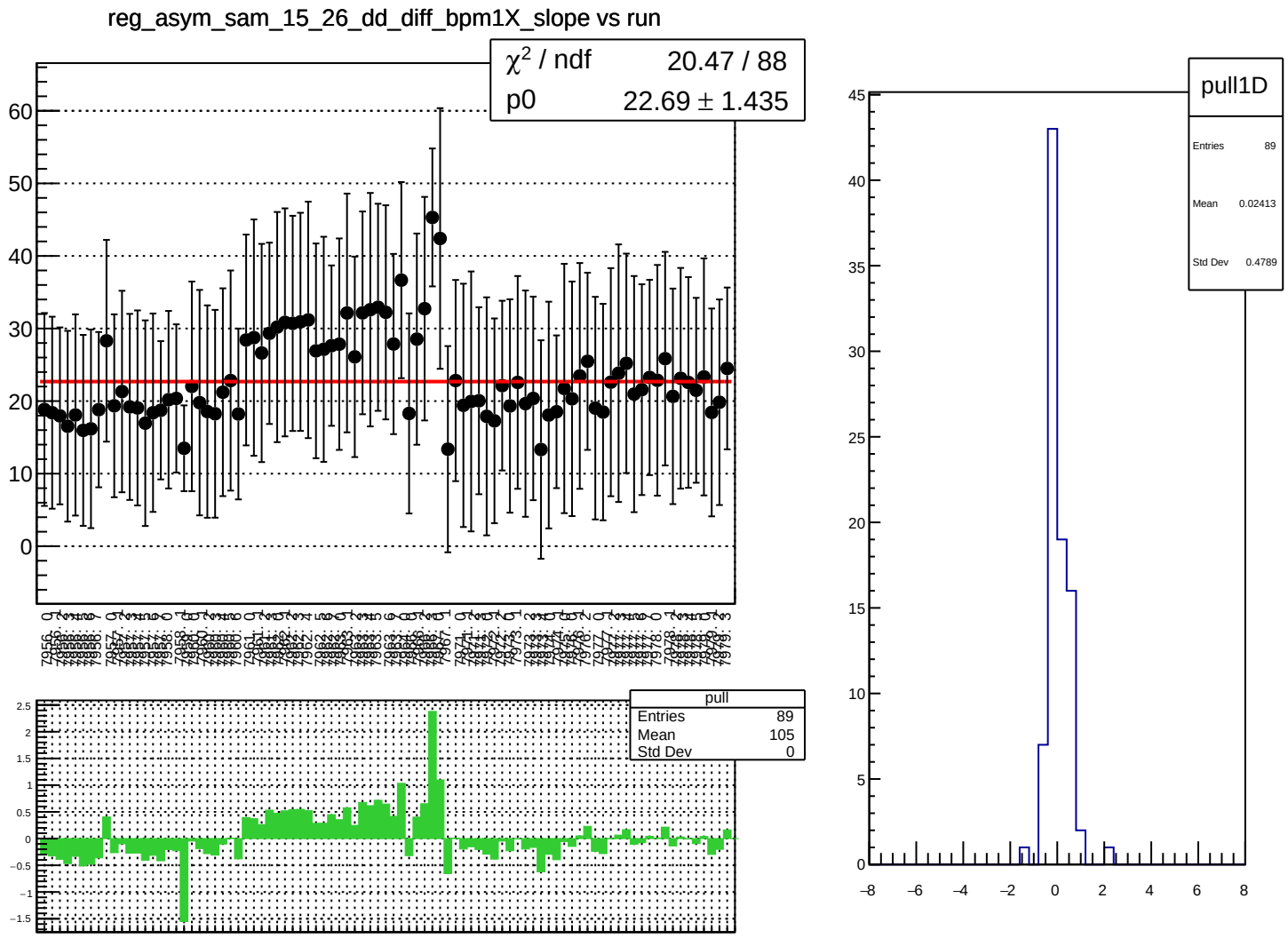

pull1D
Entries 89
Mean 0.04303
Std Dev 0.6346

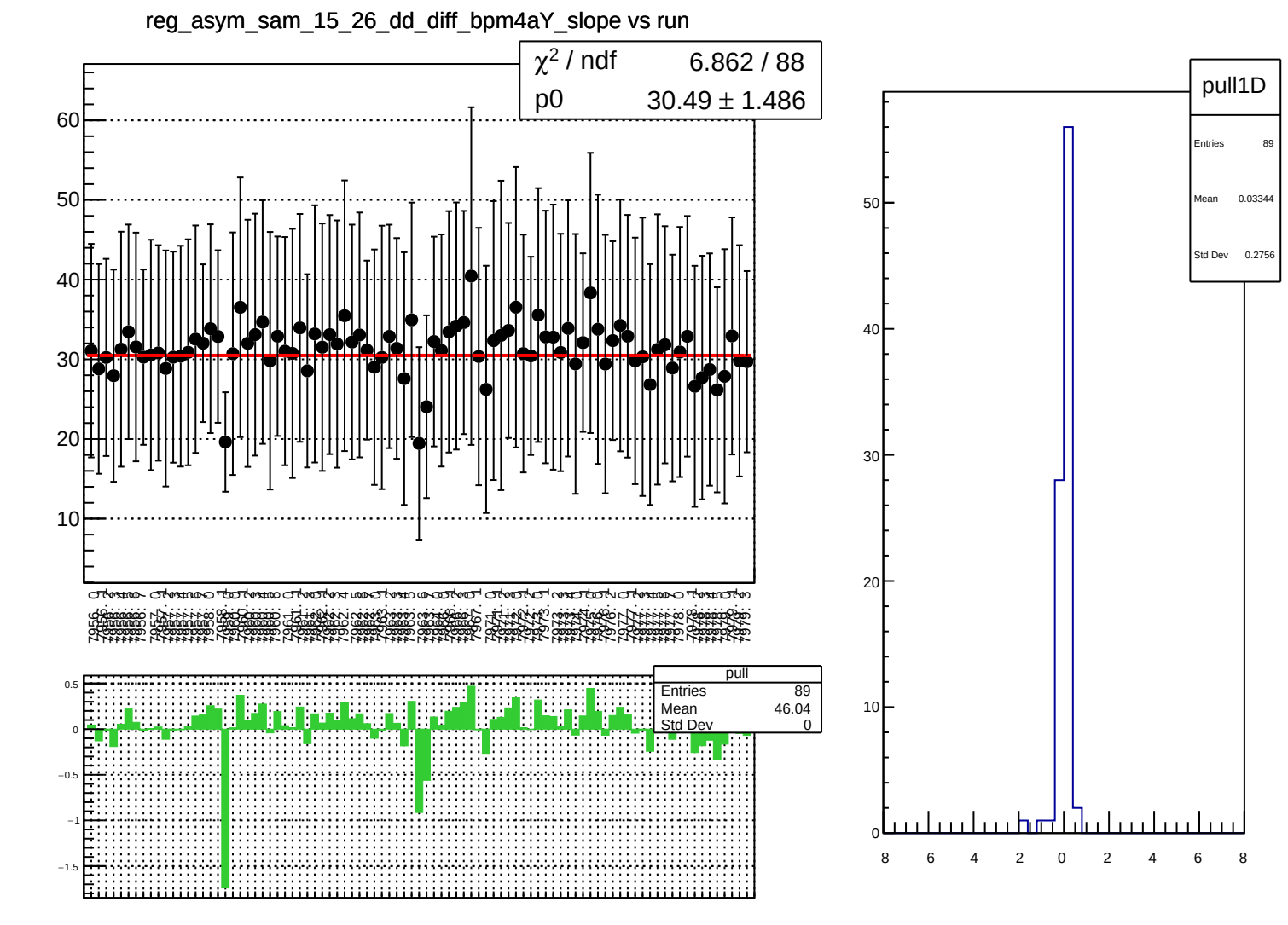

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.71 / 88
p0 −28.06 ± 0.5976
pull
Entries 89
Mean −97.11
Std Dev 0
pull1D
Entries 89
Mean −0.02032
Std Dev 0.5475

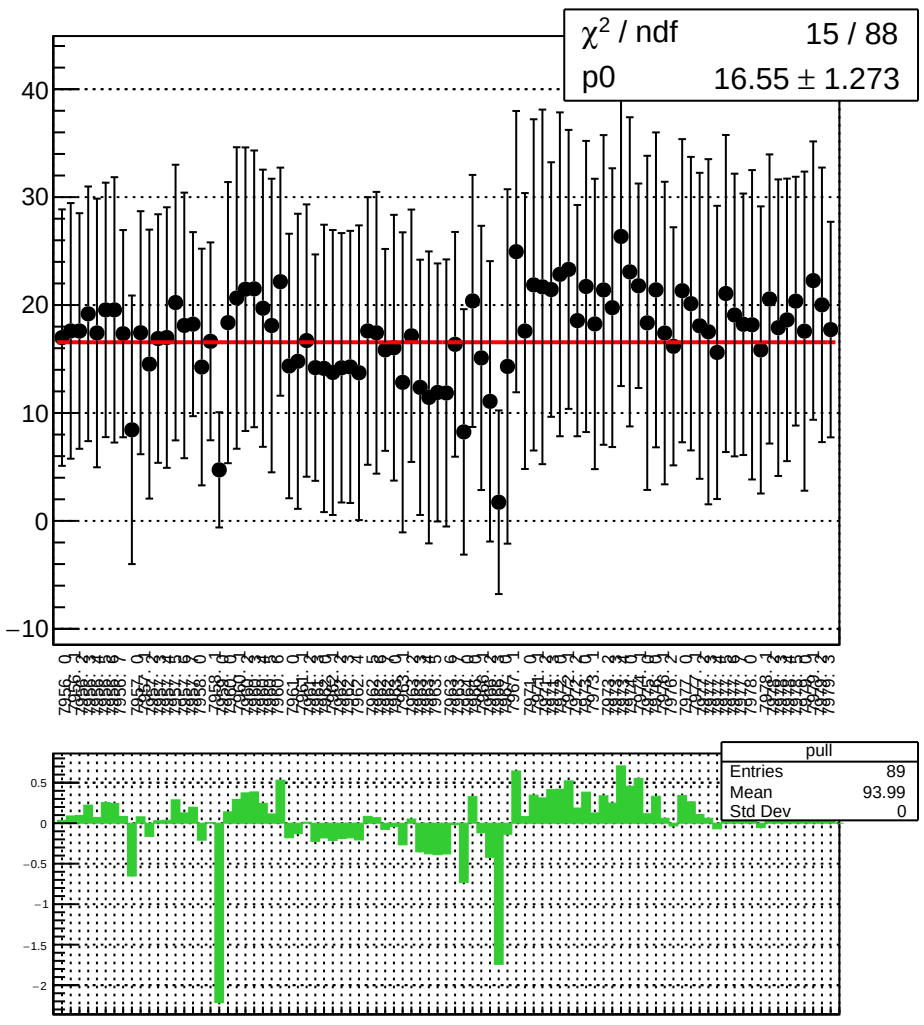

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.95 / 88
p0 13.05 ± 0.5101
pull
Entries 89
Mean 8.119
Std Dev 58.11
pull1D
Entries 89
Mean −0.04769
Std Dev 0.6426

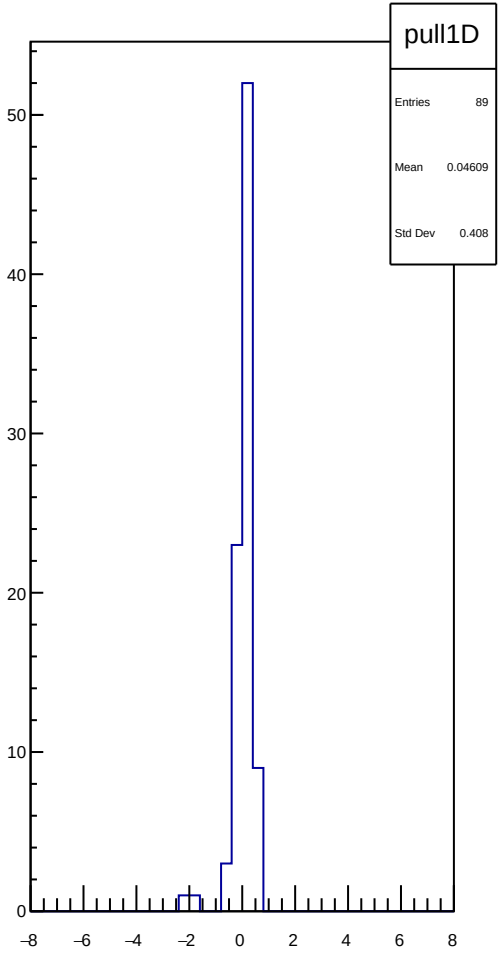

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.03 / 88
p0 −26.8 ± 0.6843
pull
Entries 89
Mean −523.9
Std Dev 0
pull1D
Entries 89
Mean 0.01903
Std Dev 0.6787

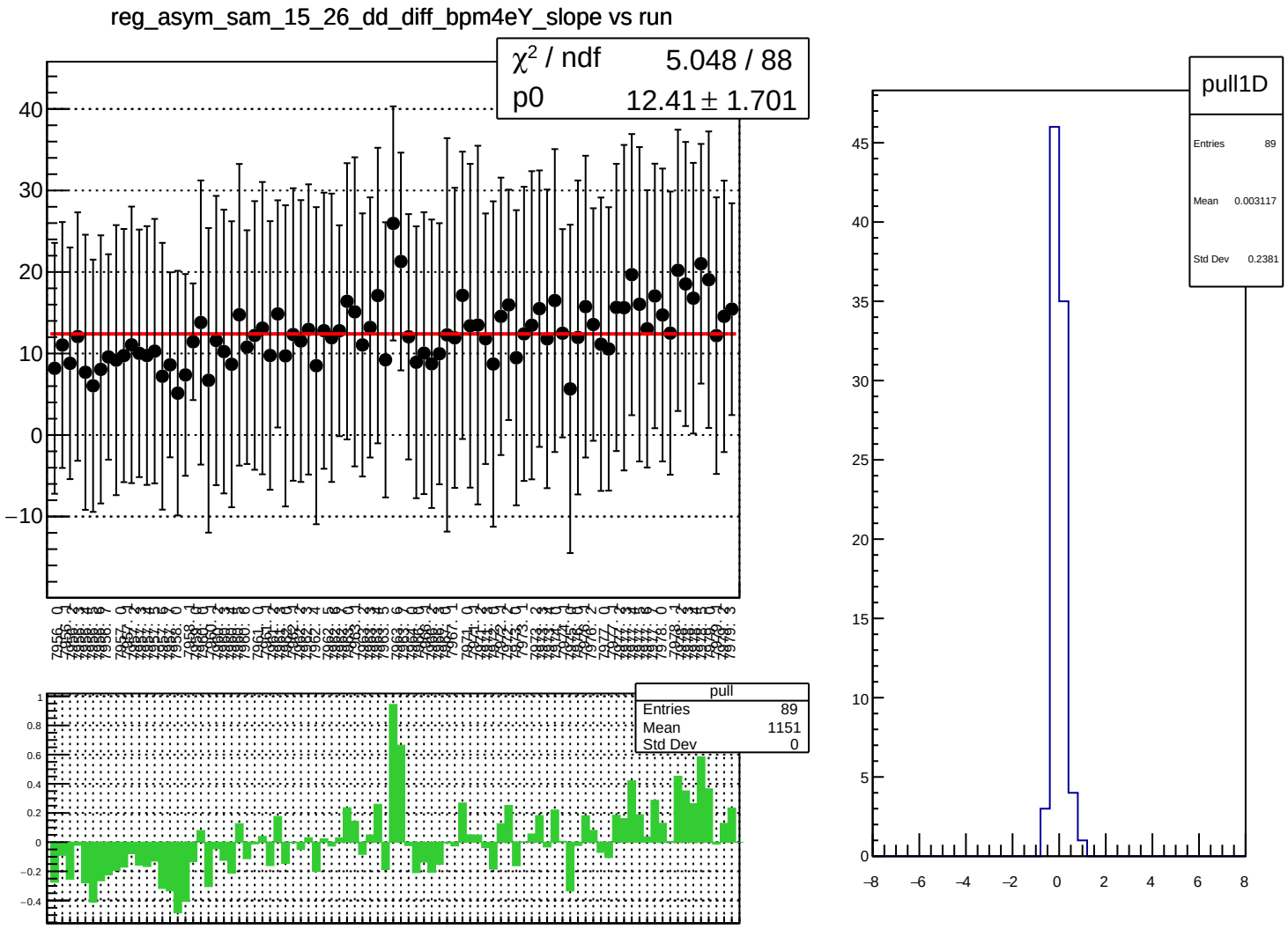

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 48.08 / 88
p0 0.5512 ± 0.01974
pull
Entries 89
Mean −660.3
Std Dev 0
pull1D
Entries 89
Mean 0.01541
Std Dev 0.7349

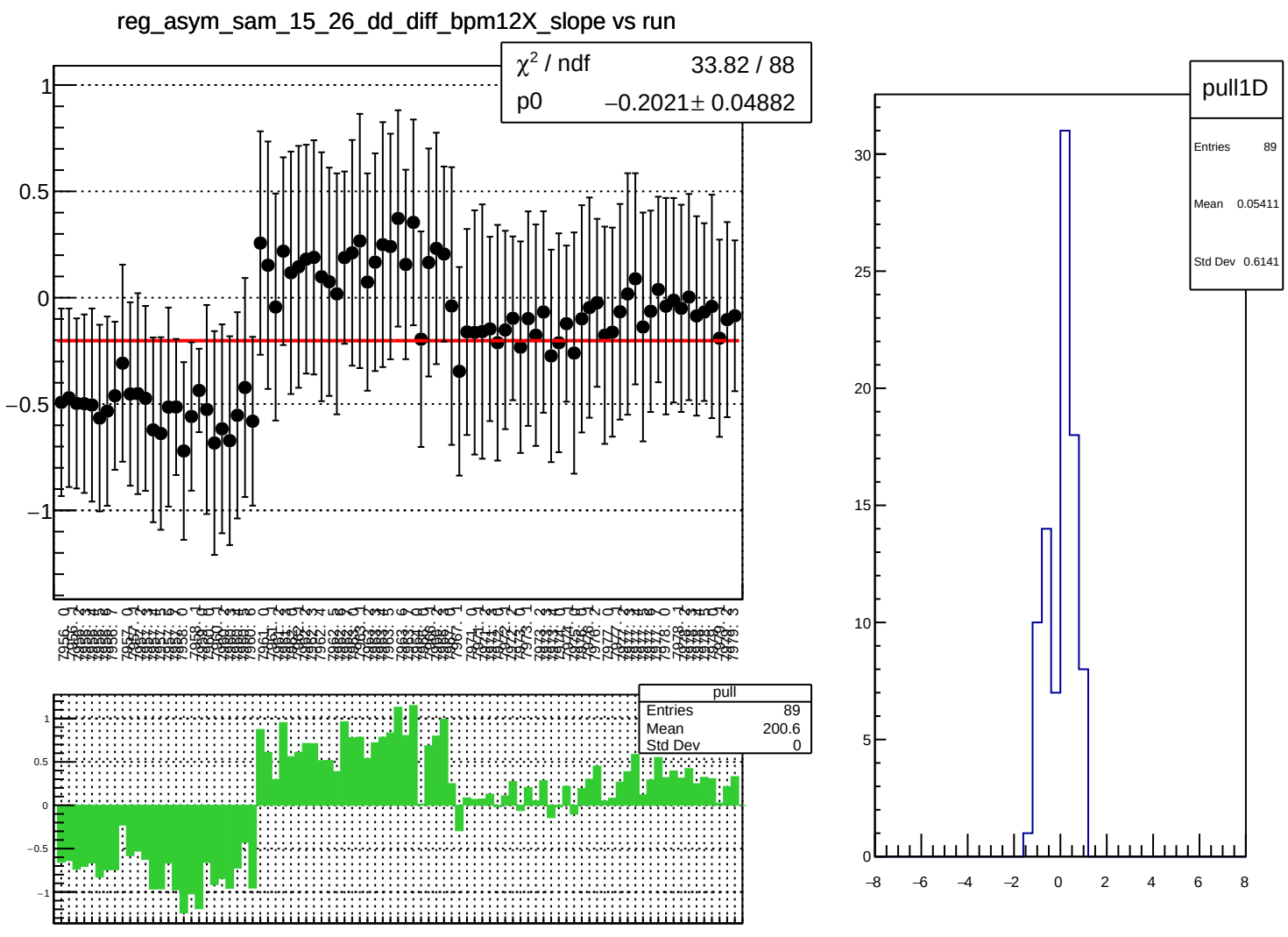

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 20.47 / 88
p0 22.69 ± 1.435
pull
Entries 89
Mean 105
Std Dev 0
pull1D
Entries 89
Mean 0.02413
Std Dev 0.4789

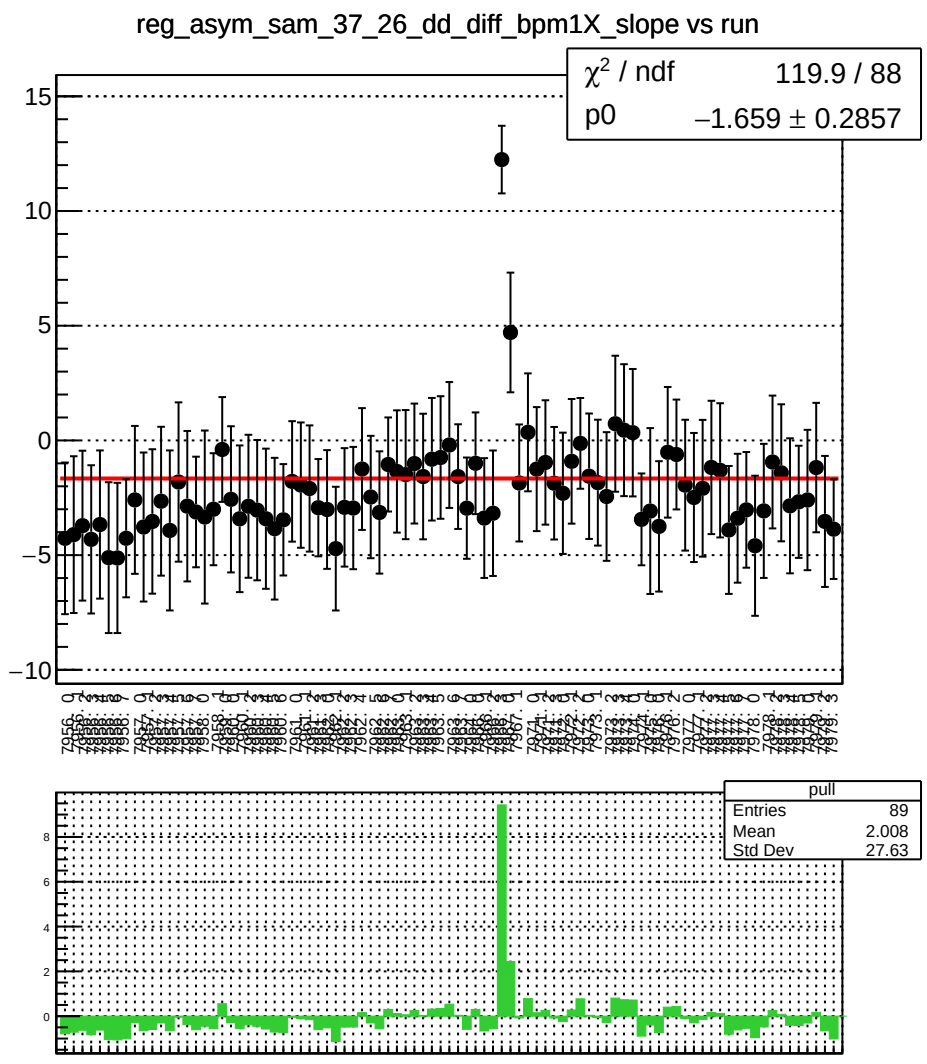

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.862 / 88
p0 30.49 ± 1.486
pull
Entries 89
Mean 46.04
Std Dev 0
pull1D
Entries 89
Mean 0.03344
Std Dev 0.2756

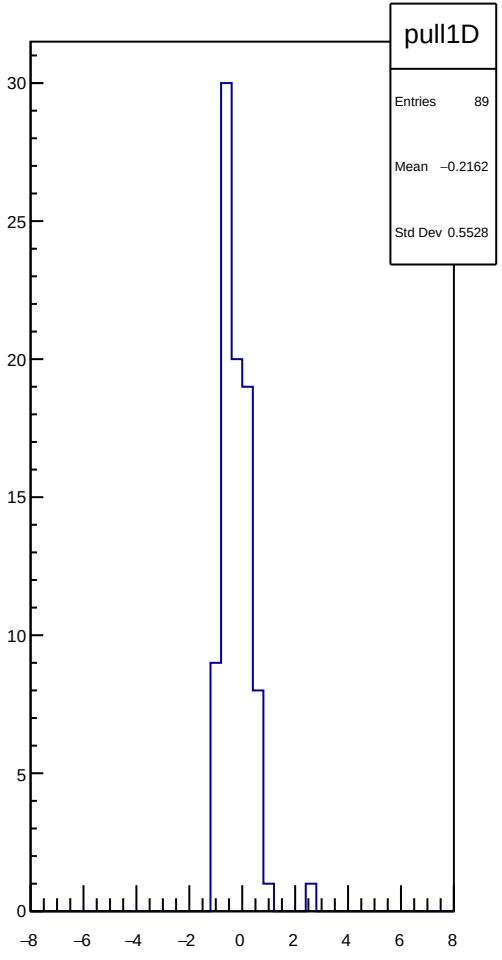

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 15 / 88
p0 16.55 ± 1.273
pull
Entries 89
Mean 93.99
Std Dev 0

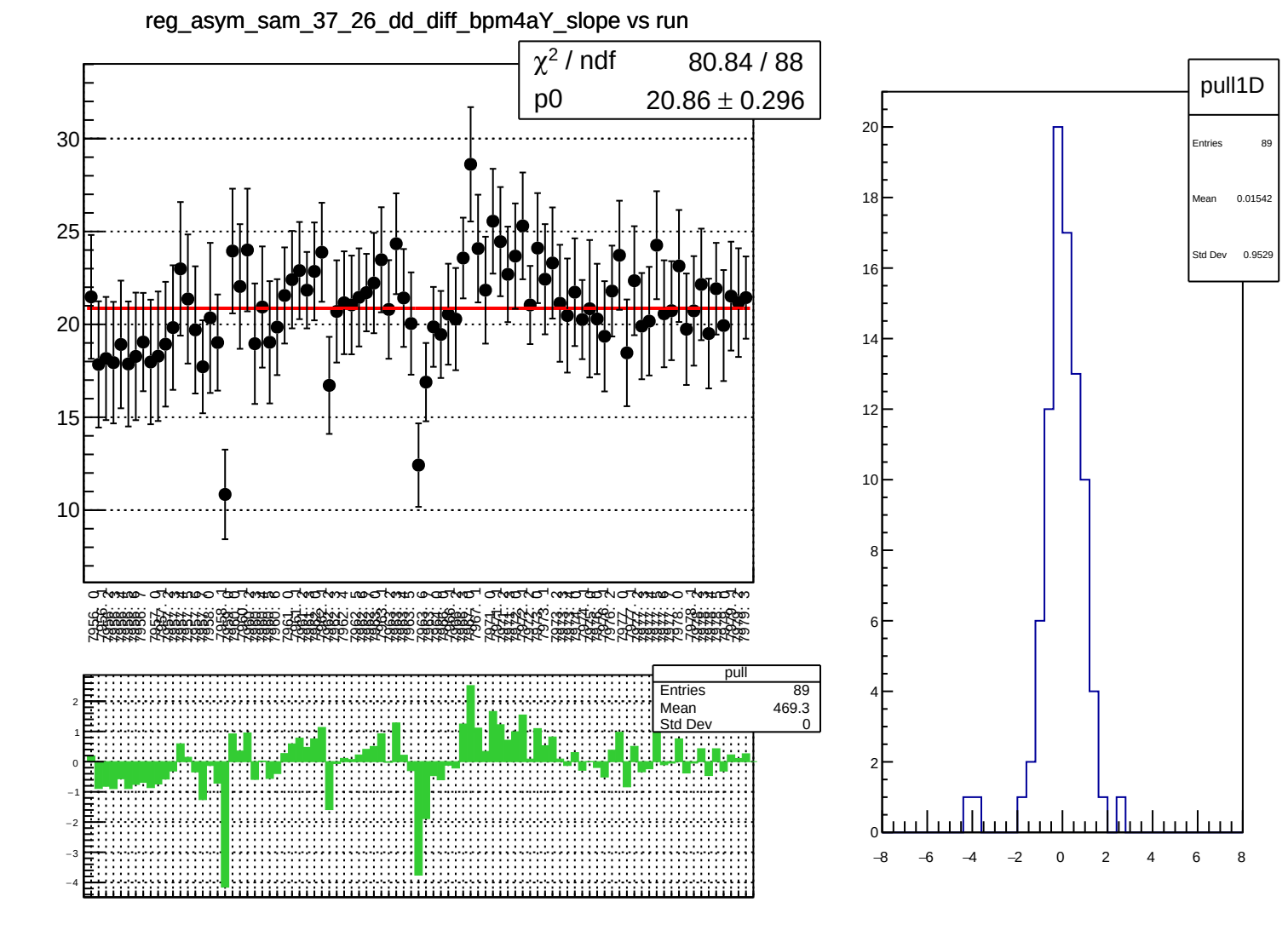

pull1D
Entries 89
Mean 0.04609
Std Dev 0.408

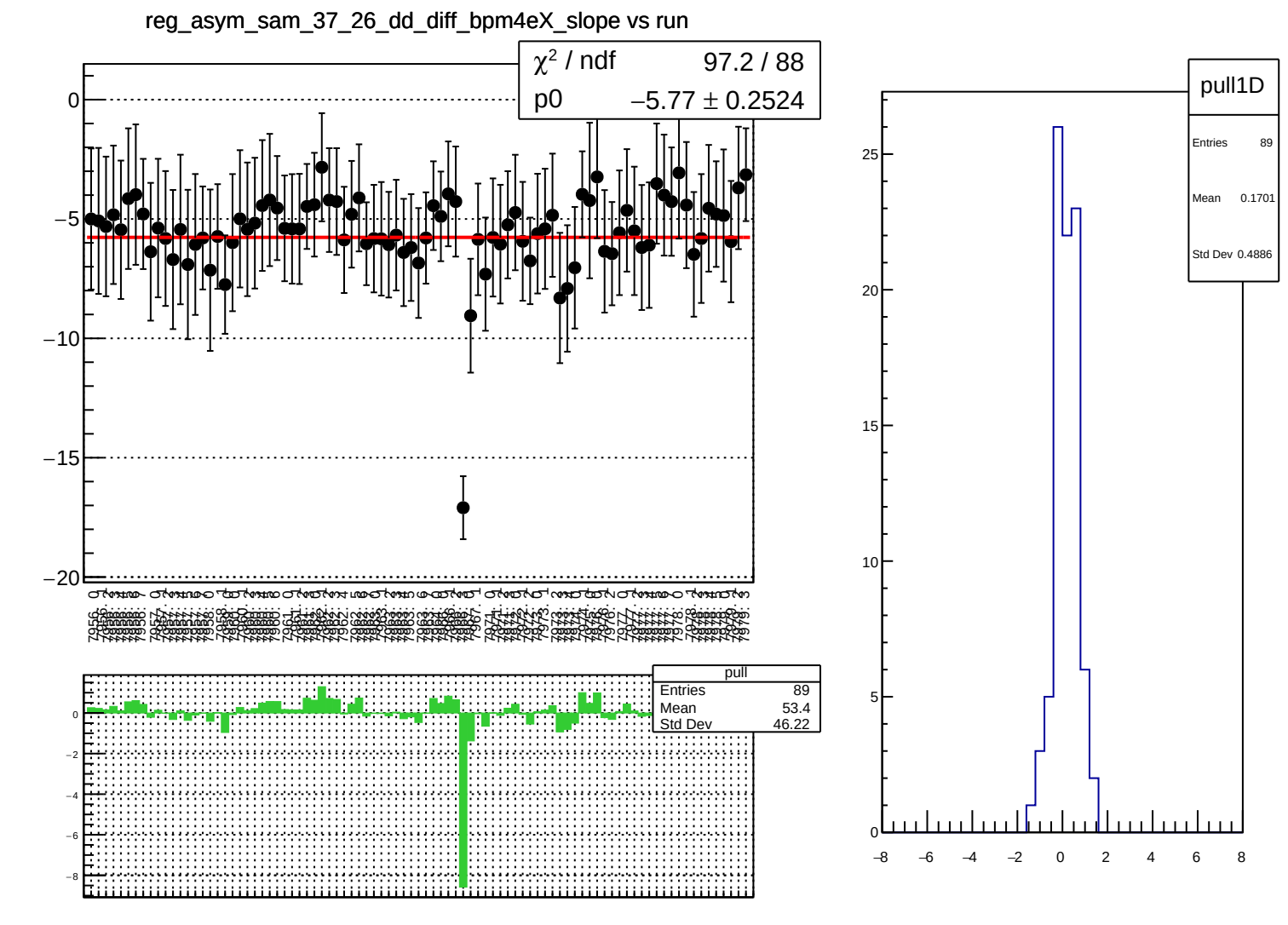

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.048 / 88
p0 12.41 ± 1.701
pull
Entries 89
Mean 1151
Std Dev 0
pull1D
Entries 89
Mean 0.003117
Std Dev 0.2381

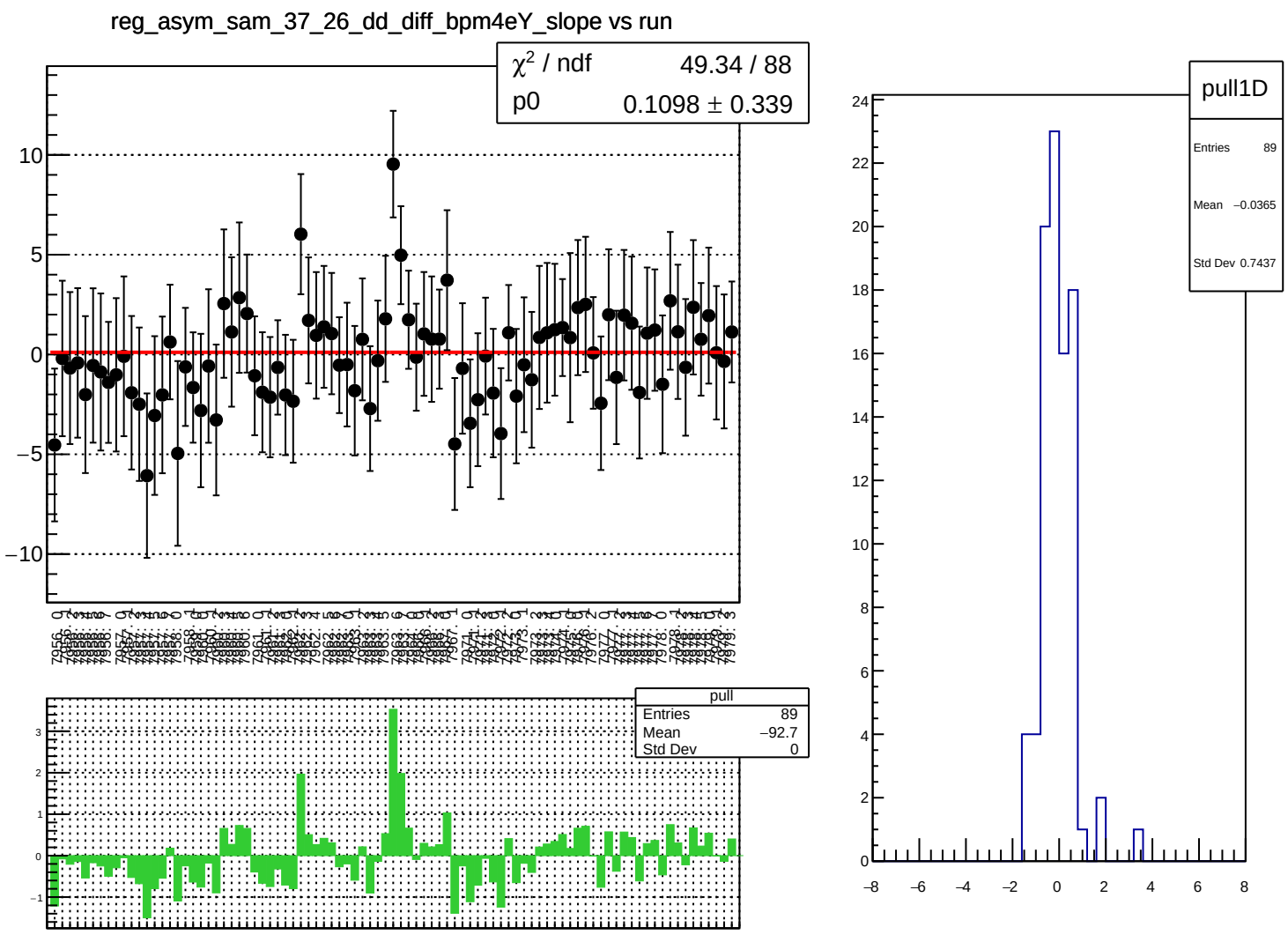

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 33.82 / 88
p0 −0.2021± 0.04882
pull
Entries 89
Mean 200.6
Std Dev 0
pull1D
Entries 89
Mean 0.05411
Std Dev 0.6141

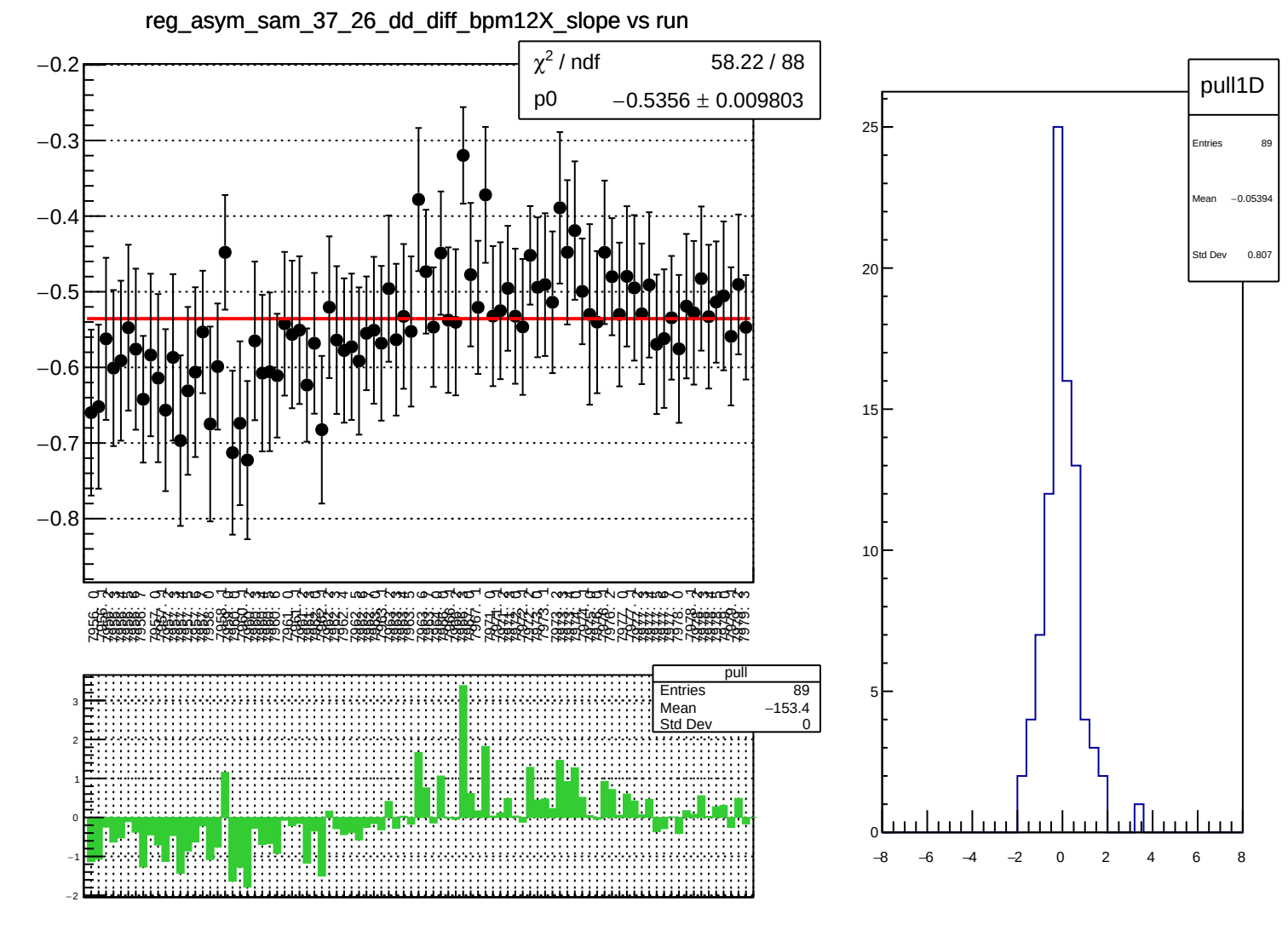

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 119.9 / 88
p0 −1.659 ± 0.2857
pull
Entries 89
Mean 2.008
Std Dev 27.63

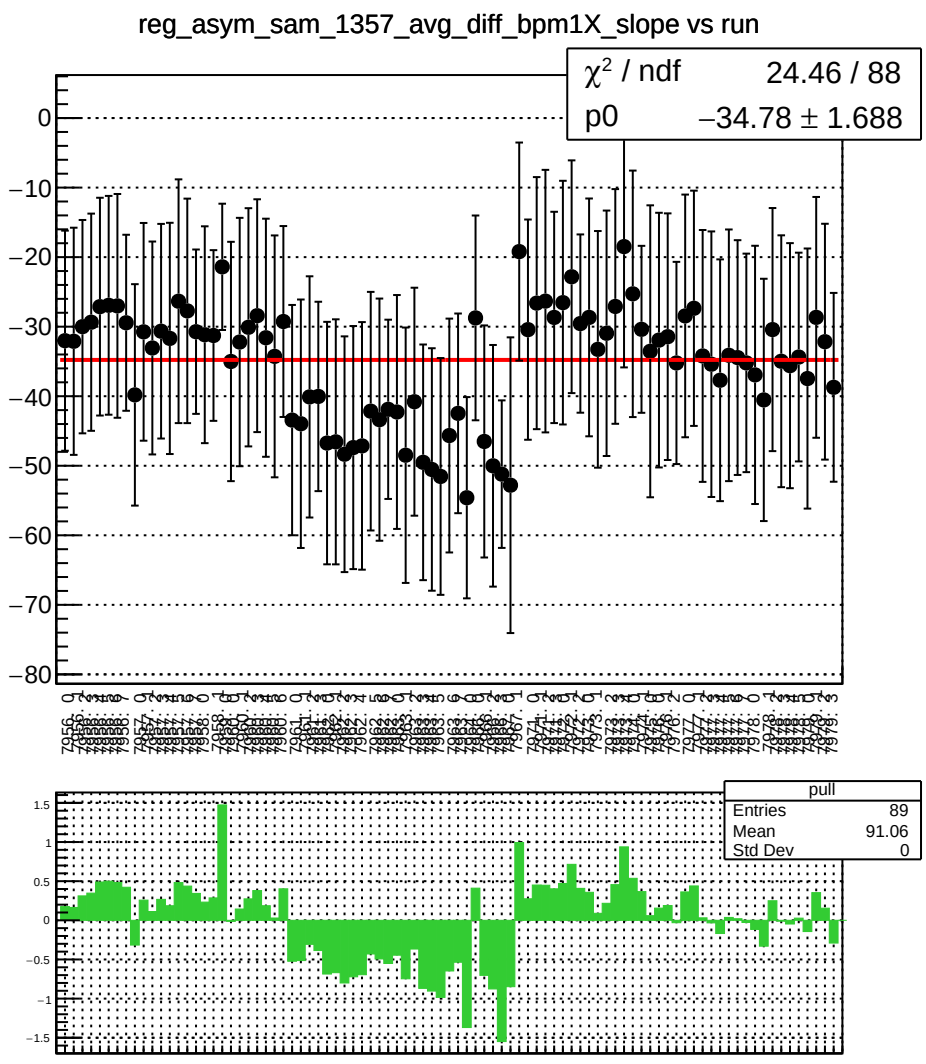

pull1D
Entries 89
Mean −0.2162
Std Dev 0.5528

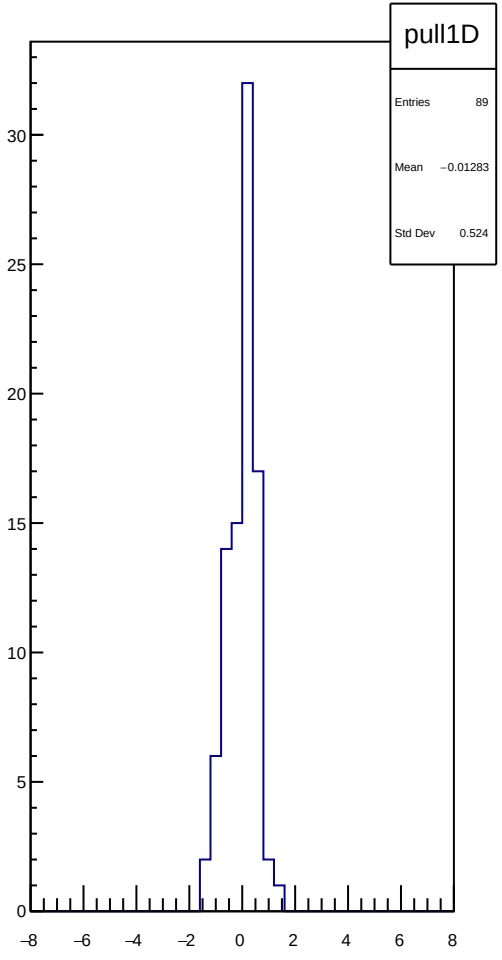

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.84 / 88
p0 20.86 ± 0.296
pull
Entries 89
Mean 469.3
Std Dev 0
pull1D
Entries 89
Mean 0.01542
Std Dev 0.9529

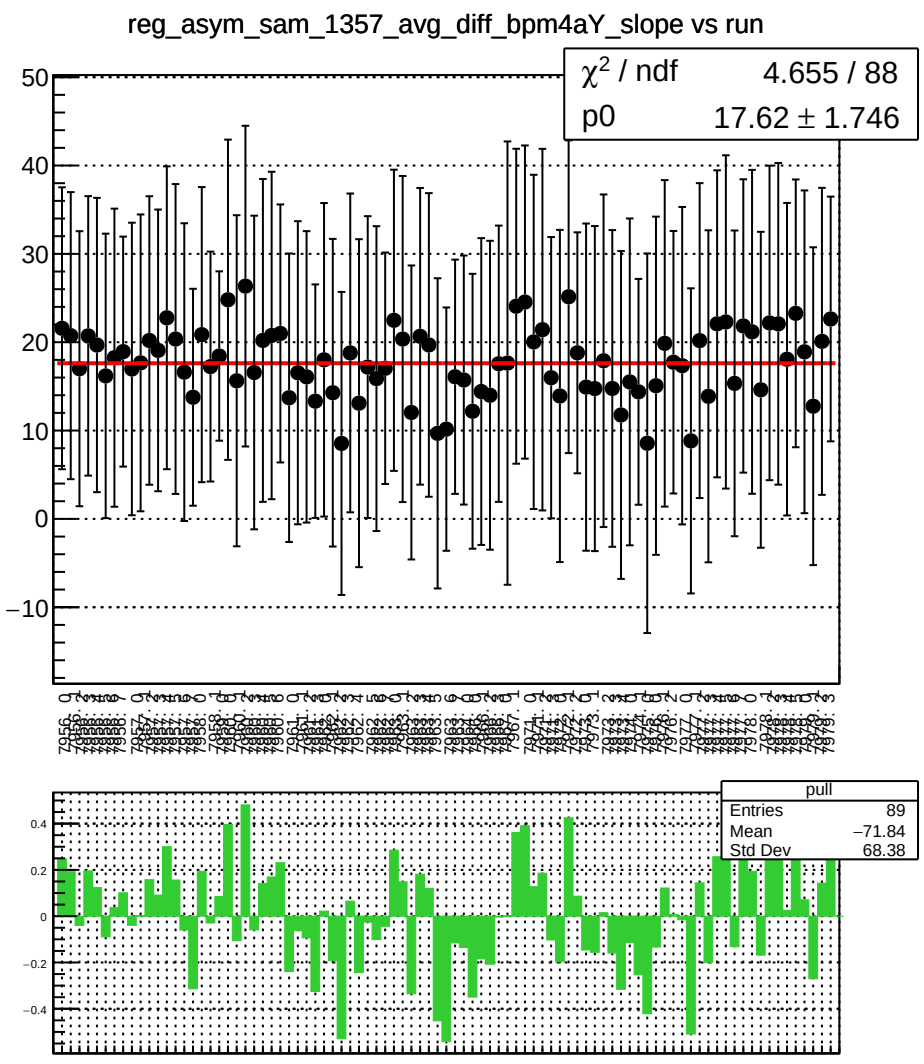

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 97.2 / 88
p0 −5.77 ± 0.2524
pull
Entries 89
Mean 53.4
Std Dev 46.22
pull1D
Entries 89
Mean 0.1701
Std Dev 0.4886

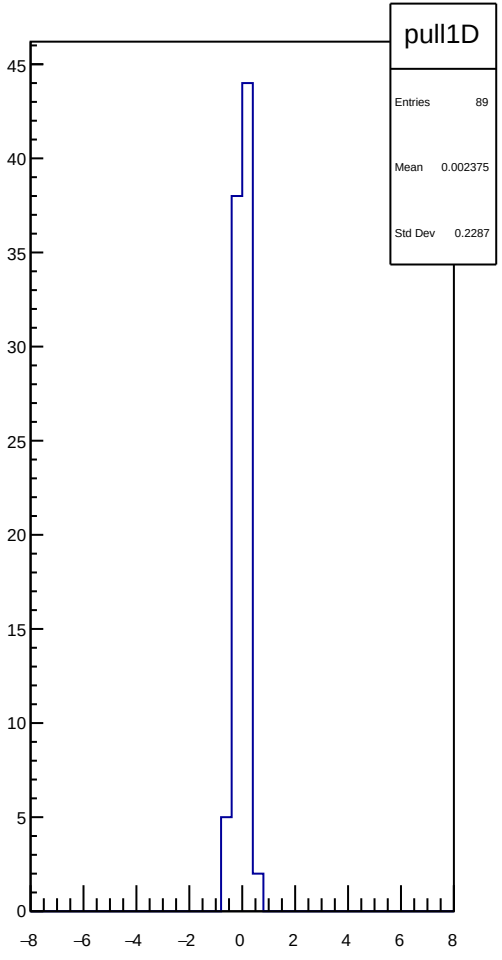

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.34 / 88
p0 0.1098 ± 0.339
pull
Entries 89
Mean −92.7
Std Dev 0
pull1D
Entries 89
Mean −0.0365
Std Dev 0.7437

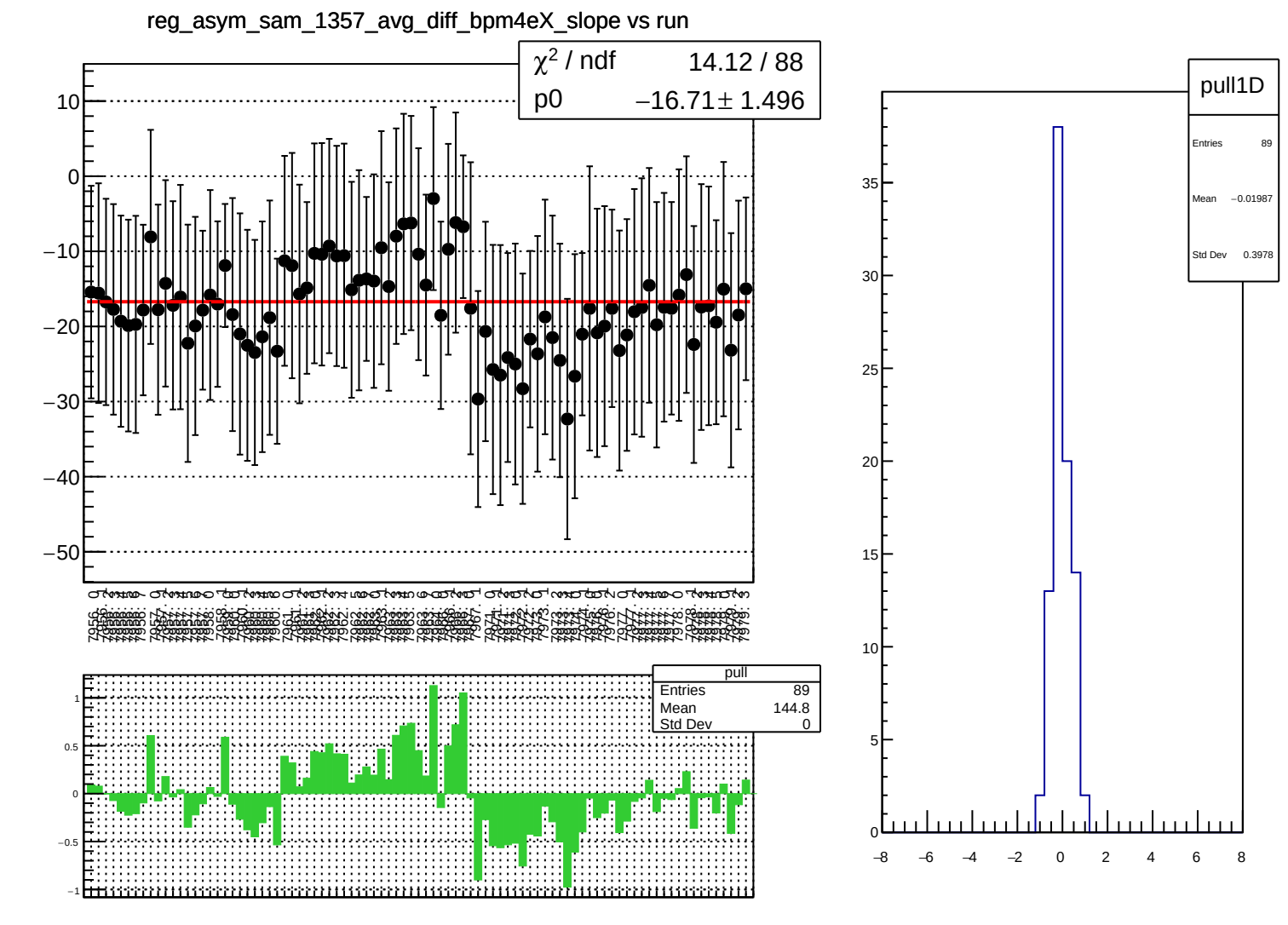

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 58.22 / 88
p0 −0.5356 ± 0.009803
pull
Entries 89
Mean −153.4
Std Dev 0
pull1D
Entries 89
Mean −0.05394
Std Dev 0.807

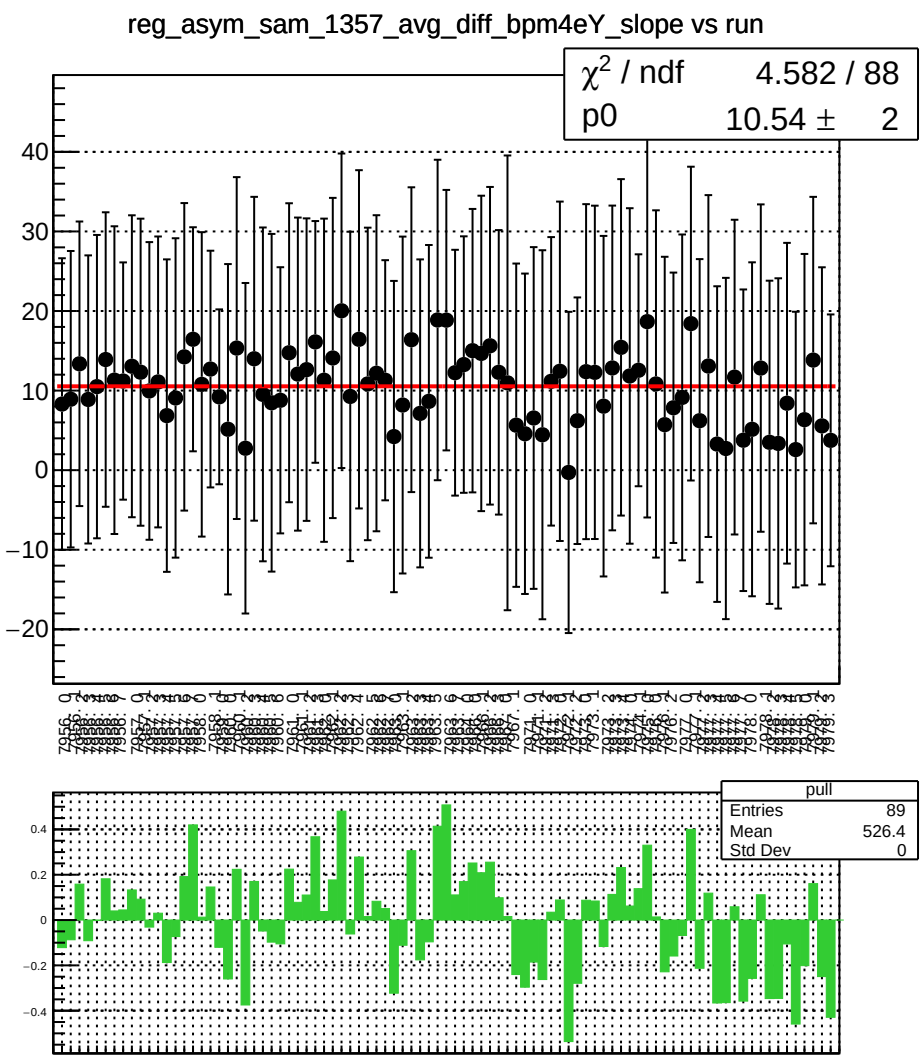

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 24.46 / 88
p0 −34.78 ± 1.688
pull
Entries 89
Mean 91.06
Std Dev 0

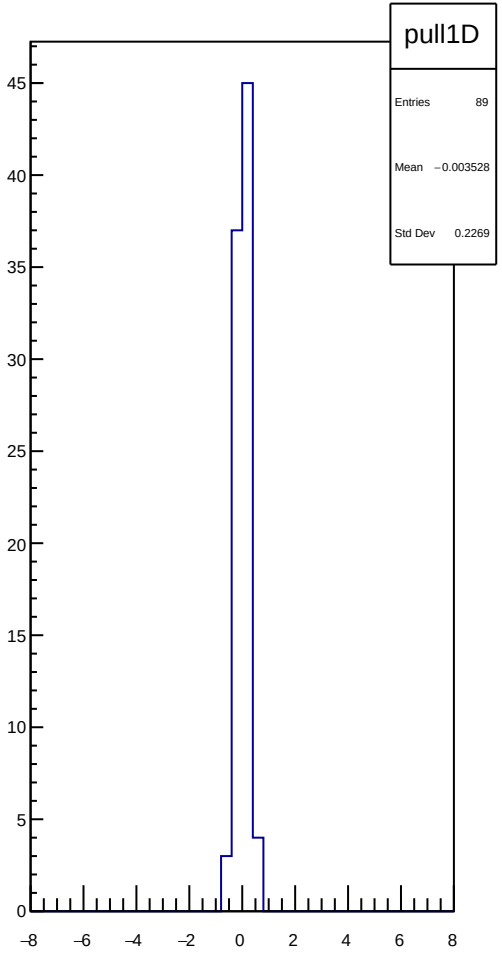

pull1D
Entries 89
Mean −0.01283
Std Dev 0.524

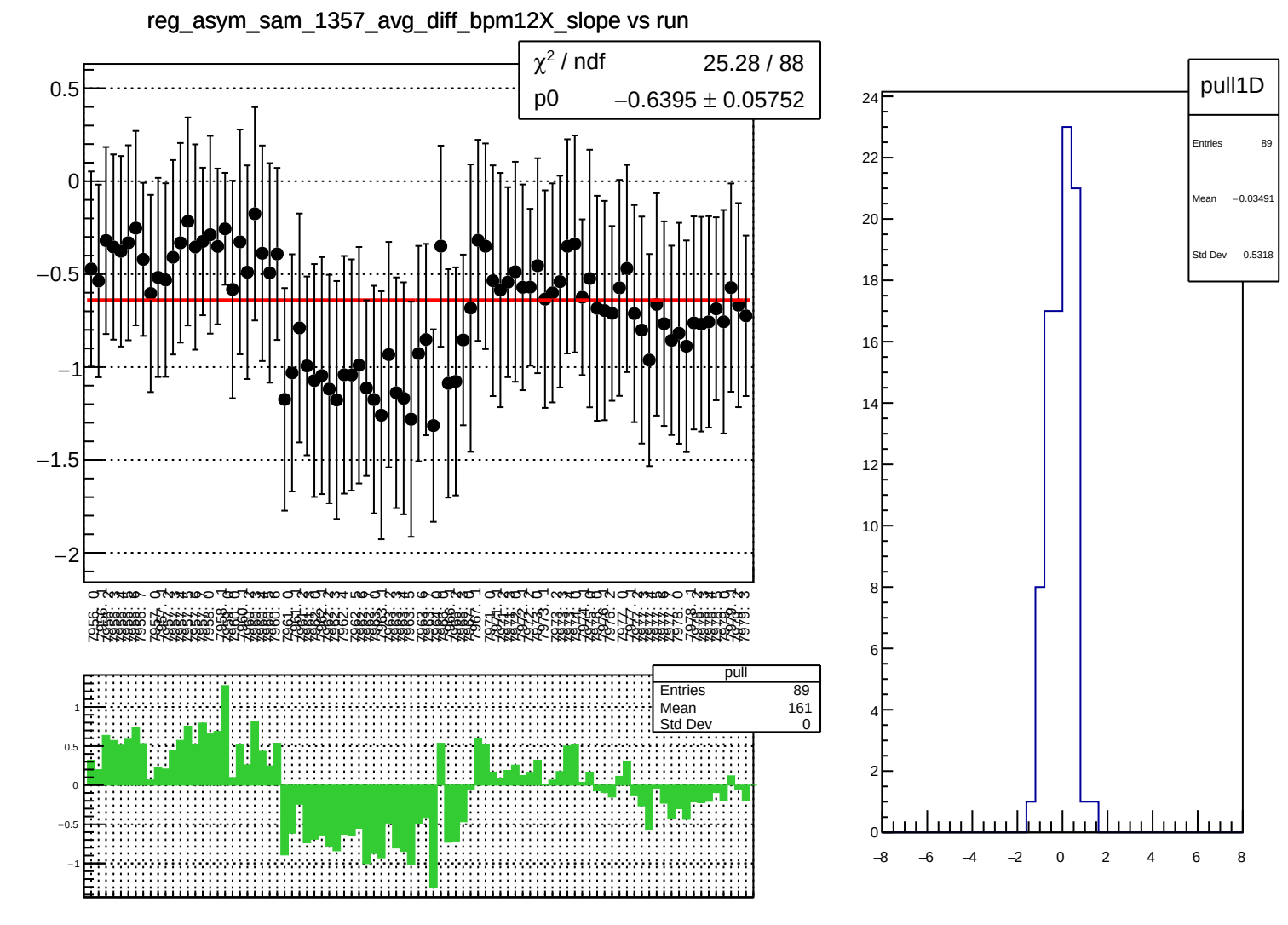

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.655 / 88
p0 17.62 ± 1.746
pull
Entries 89
Mean −71.84
Std Dev 68.38

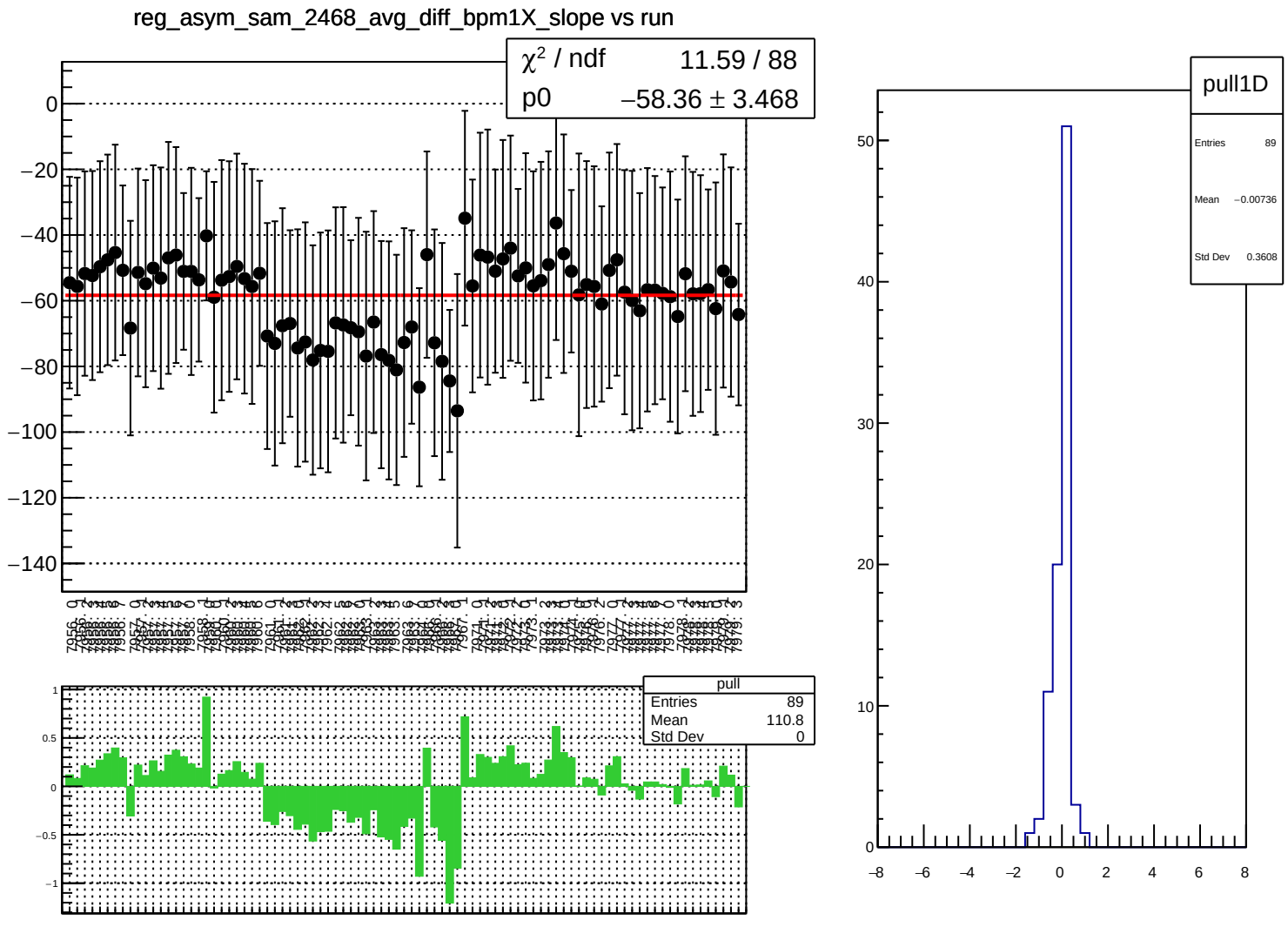

pull1D
Entries 89
Mean 0.002375
Std Dev 0.2287

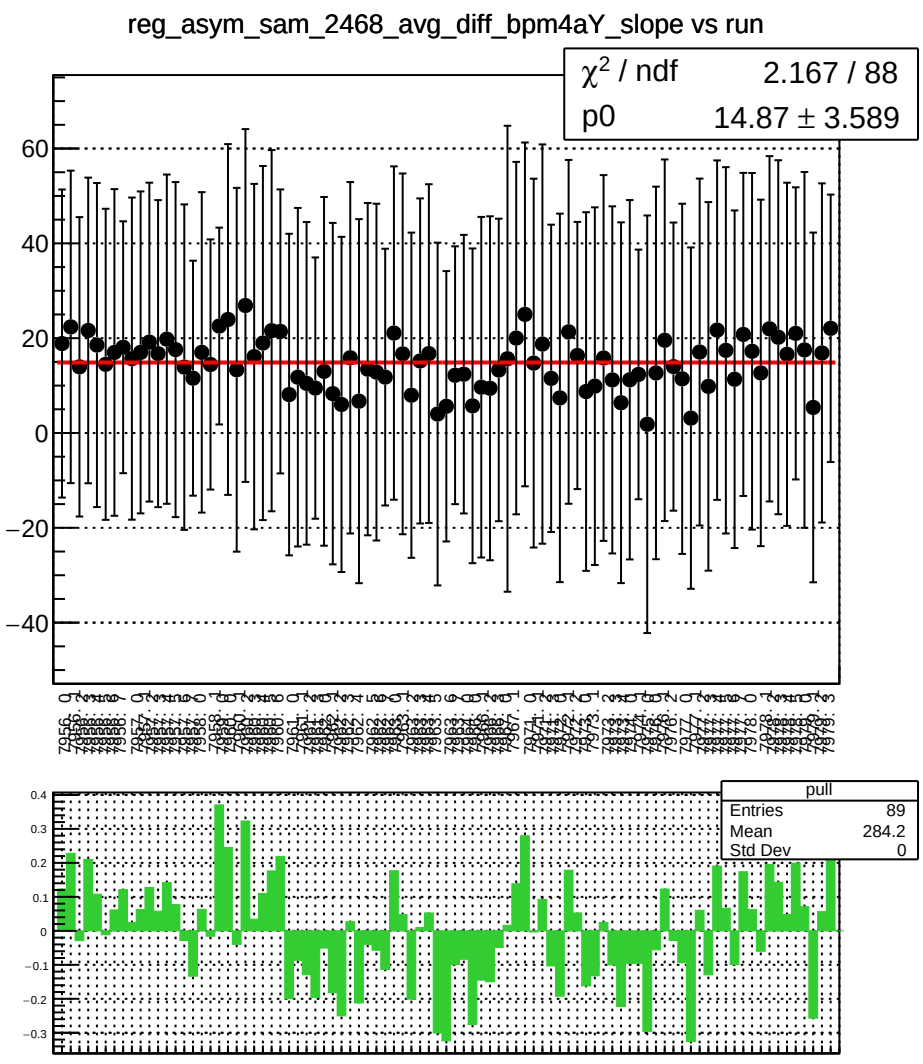

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.12 / 88
p0 −16.71± 1.496
pull
Entries 89
Mean 144.8
Std Dev 0
pull1D
Entries 89
Mean −0.01987
Std Dev 0.3978

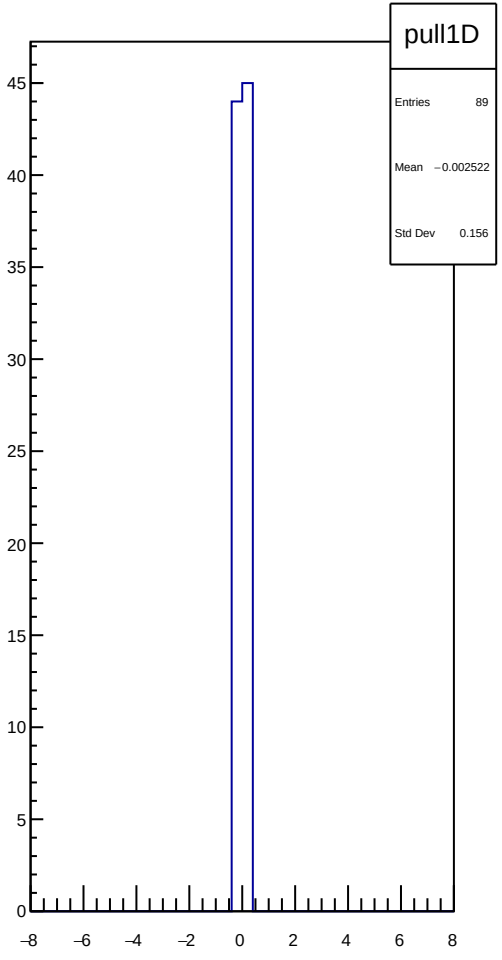

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.582 / 88
p0 10.54 ± 2
pull
Entries 89
Mean 526.4
Std Dev 0

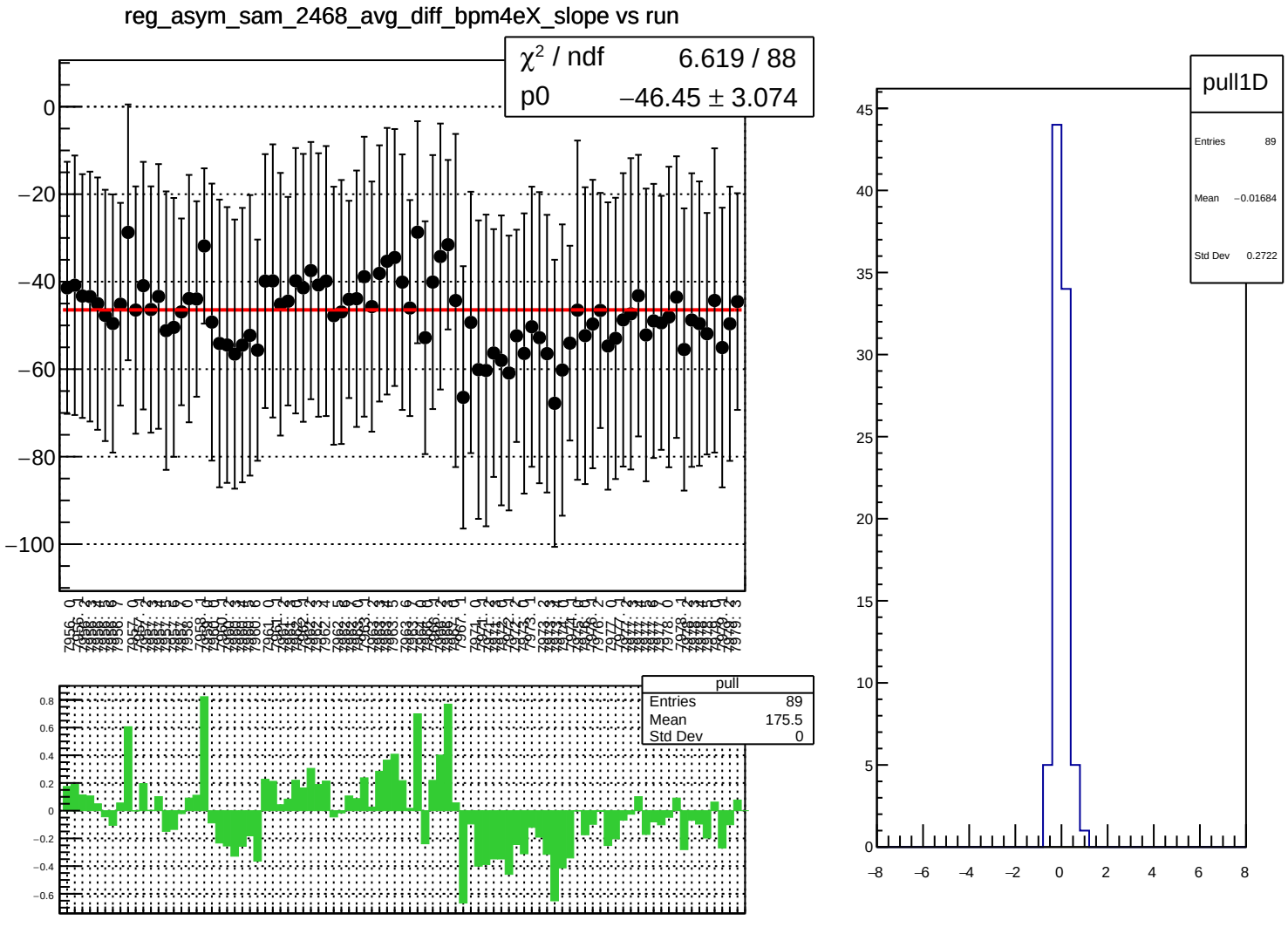

pull1D
Entries 89
Mean −0.003528
Std Dev 0.2269

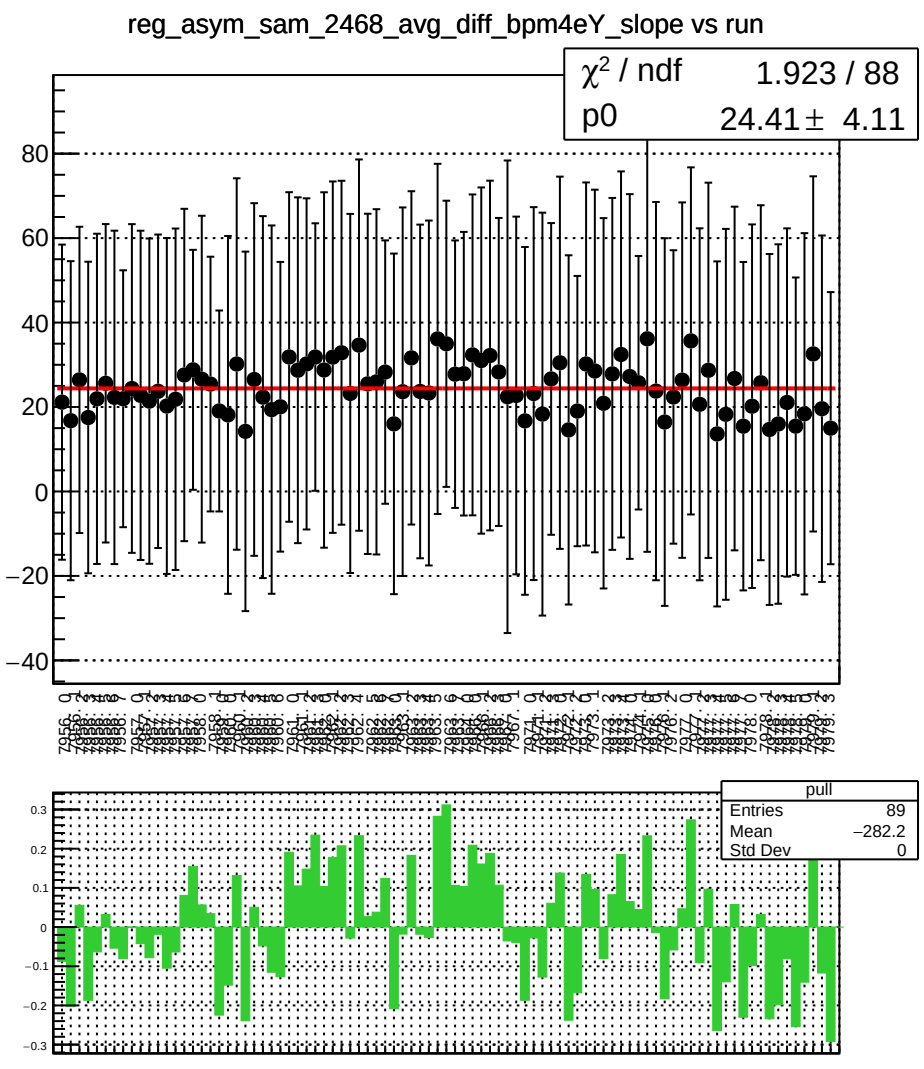

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 25.28 / 88
p0 −0.6395 ± 0.05752
pull
Entries 89
Mean 161
Std Dev 0
pull1D
Entries 89
Mean −0.03491
Std Dev 0.5318

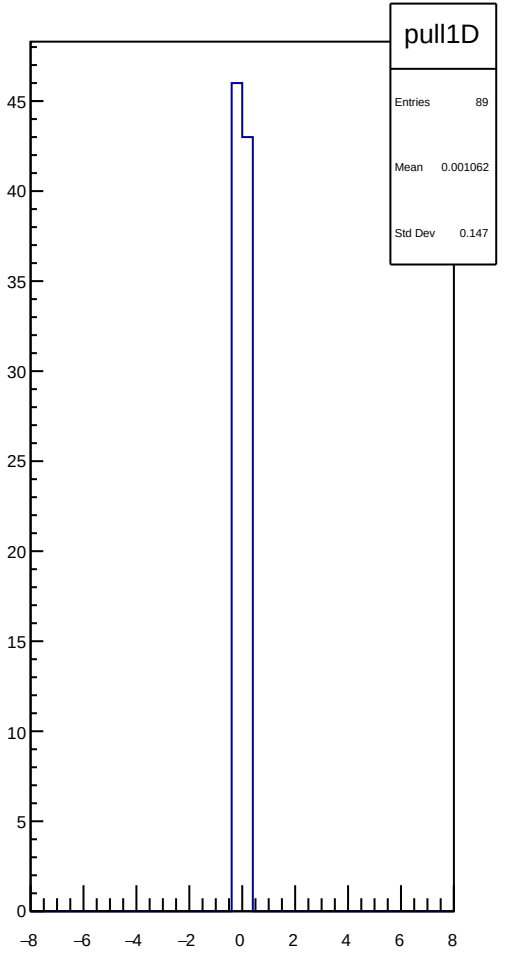

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 11.59 / 88
p0 −58.36 ± 3.468
pull
Entries 89
Mean 110.8
Std Dev 0
pull1D
Entries 89
Mean −0.00736
Std Dev 0.3608

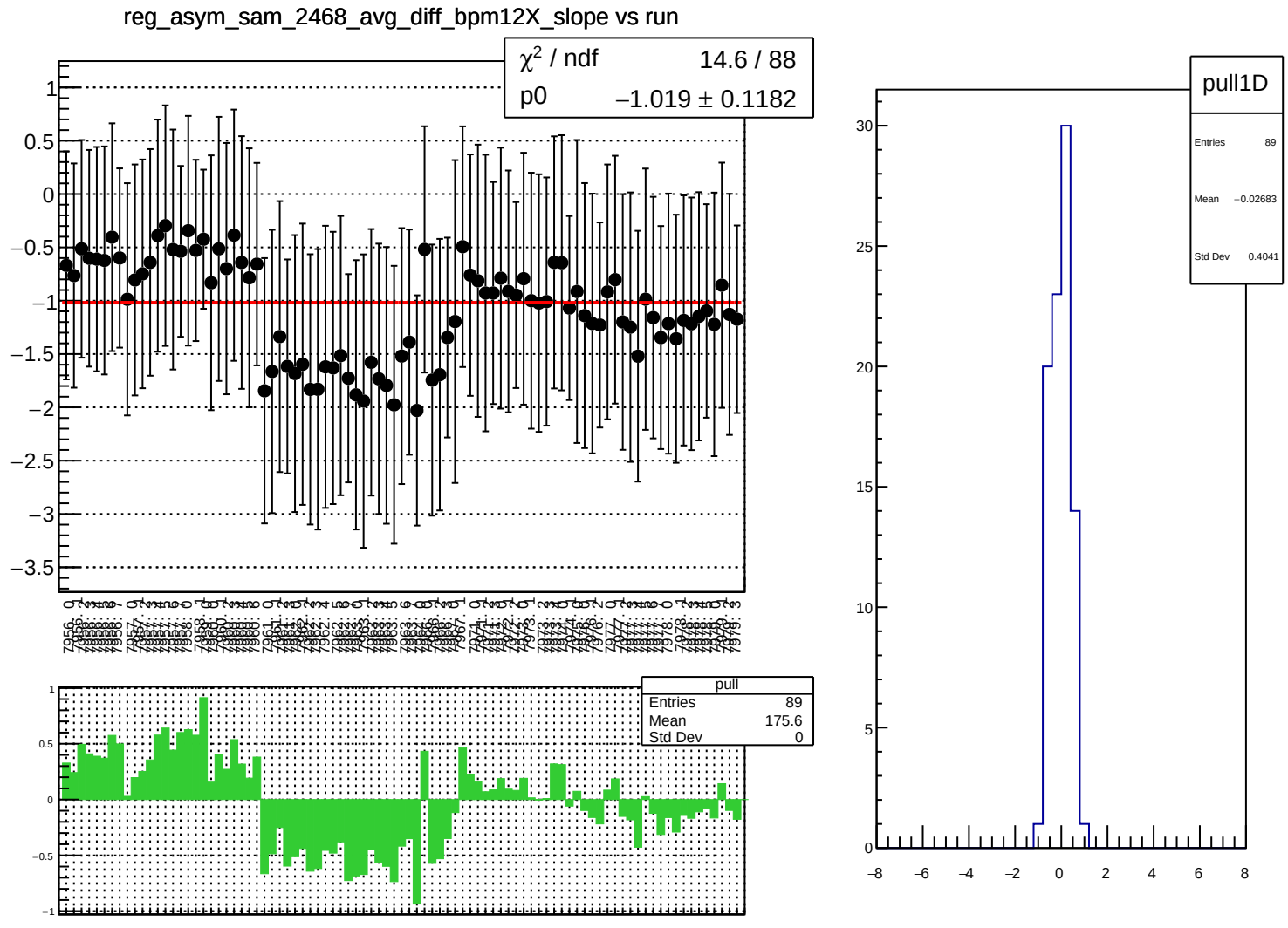

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.167 / 88
p0 14.87 ± 3.589
pull
Entries 89
Mean 284.2
Std Dev 0

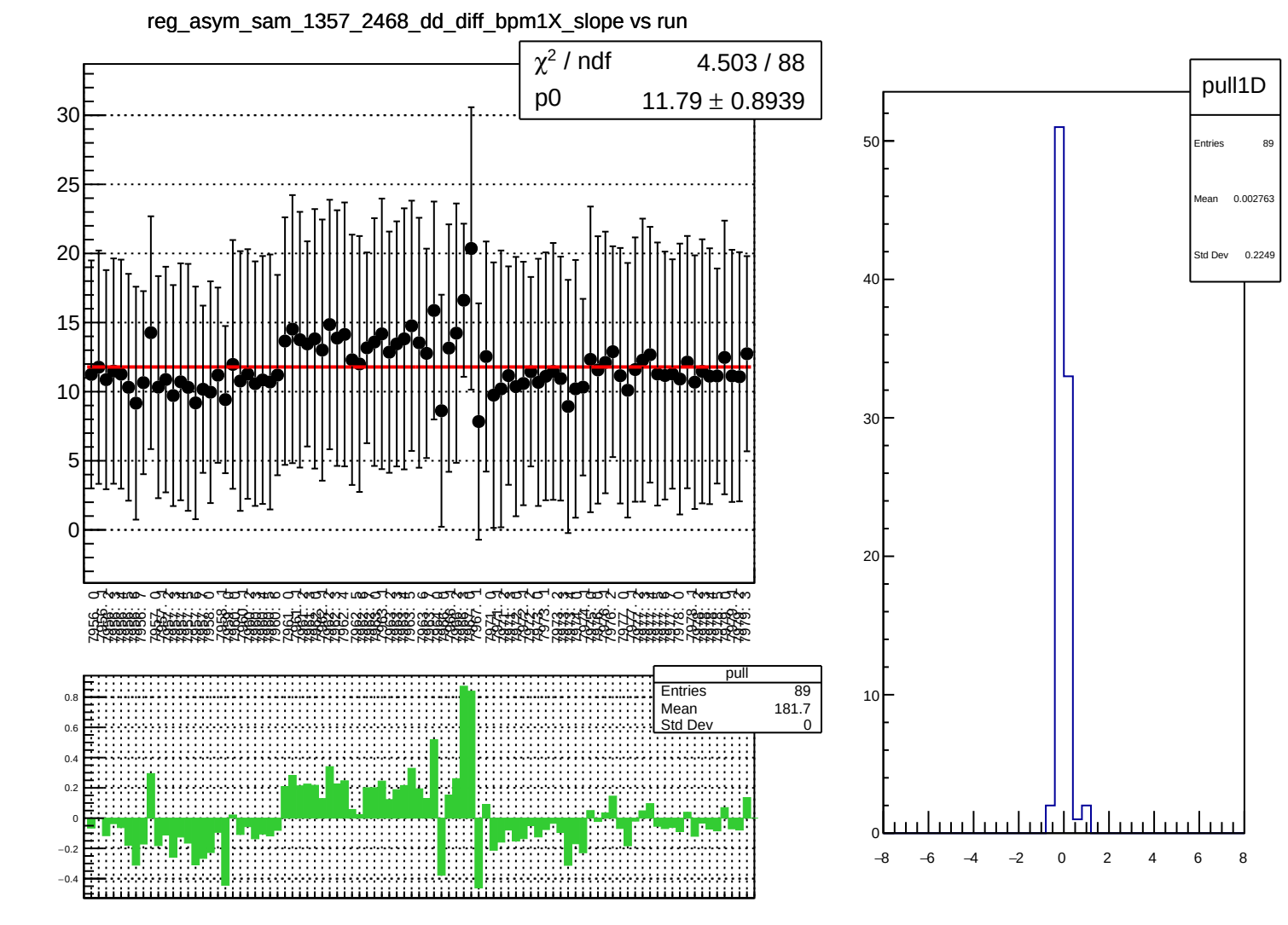

pull1D
Entries 89
Mean −0.002522
Std Dev 0.156

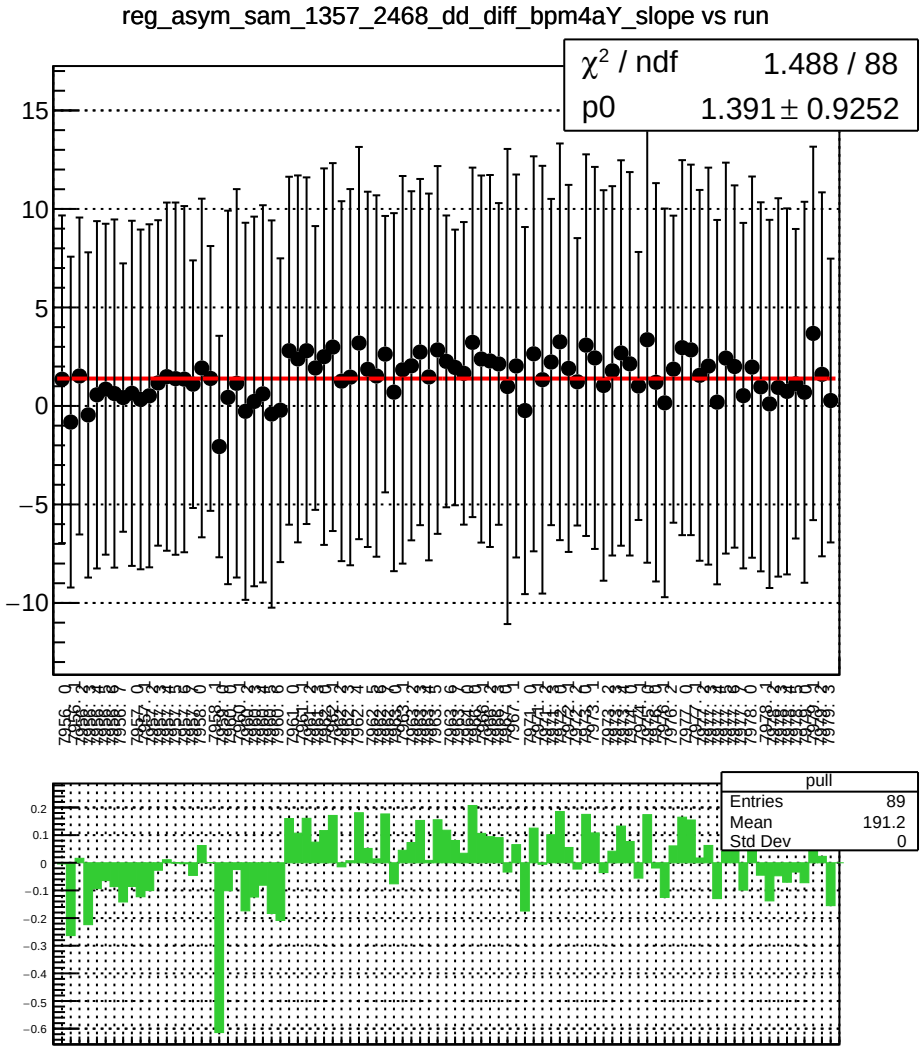

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.619 / 88
p0 −46.45 ± 3.074
pull
Entries 89
Mean 175.5
Std Dev 0
pull1D
Entries 89
Mean −0.01684
Std Dev 0.2722

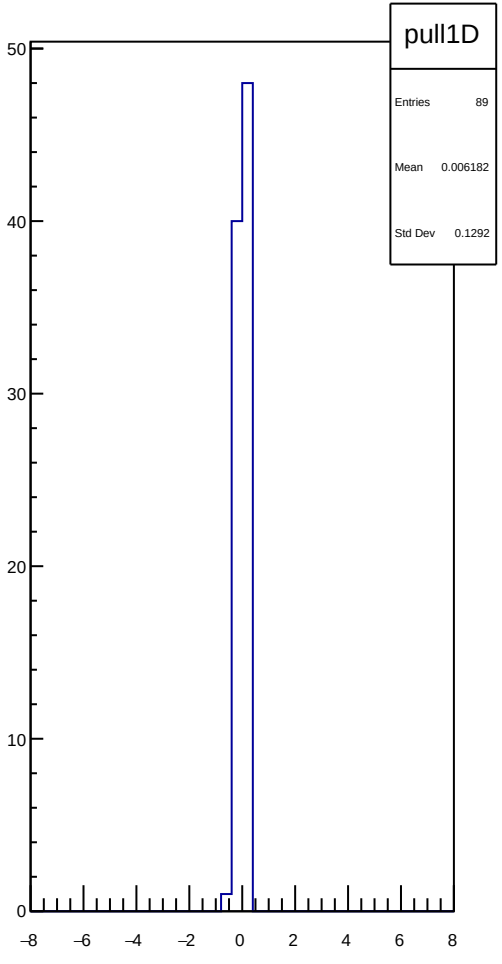

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.923 / 88
p0 24.41 ± 4.11
pull
Entries 89
Mean −282.2
Std Dev 0

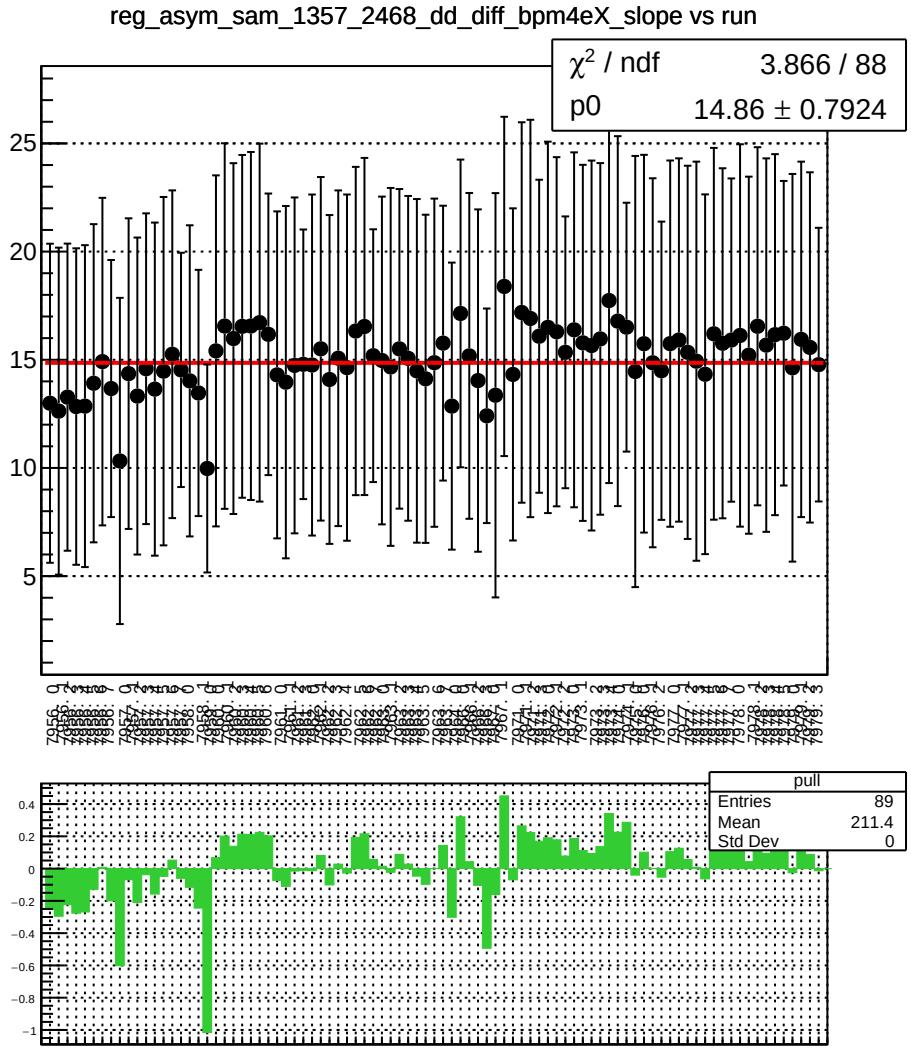

pull1D
Entries 89
Mean 0.001062
Std Dev 0.147

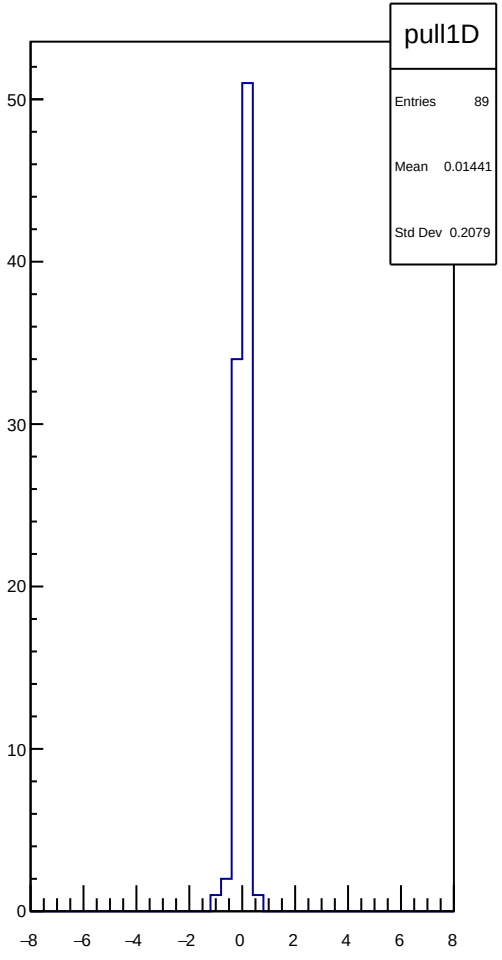

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 14.6 / 88
p0 −1.019 ± 0.1182
pull
Entries 89
Mean 175.6
Std Dev 0
pull1D
Entries 89
Mean −0.02683
Std Dev 0.4041

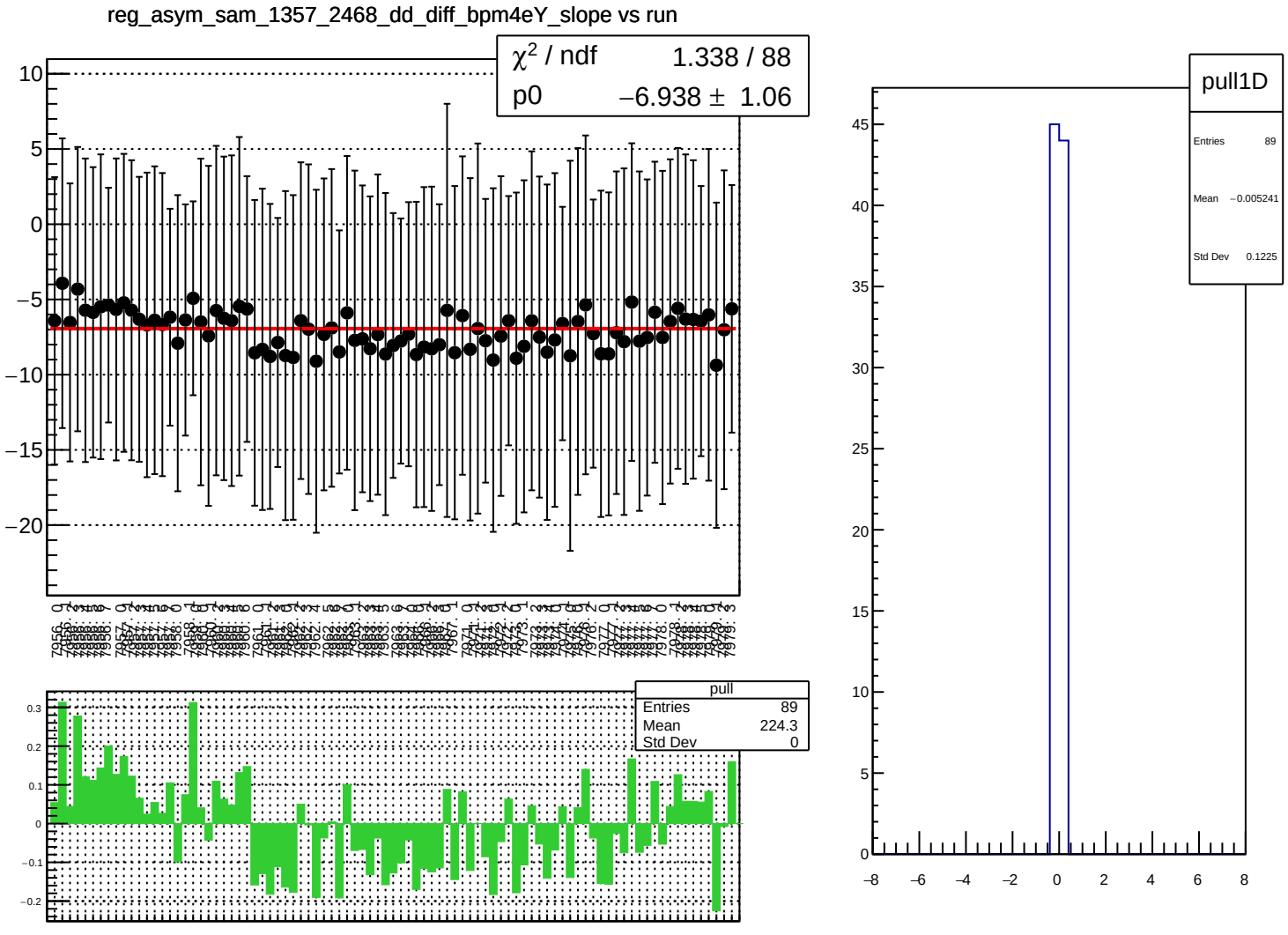

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 4.503 / 88
p0 11.79 ± 0.8939
pull
Entries 89
Mean 181.7
Std Dev 0
pull1D
Entries 89
Mean 0.002763
Std Dev 0.2249

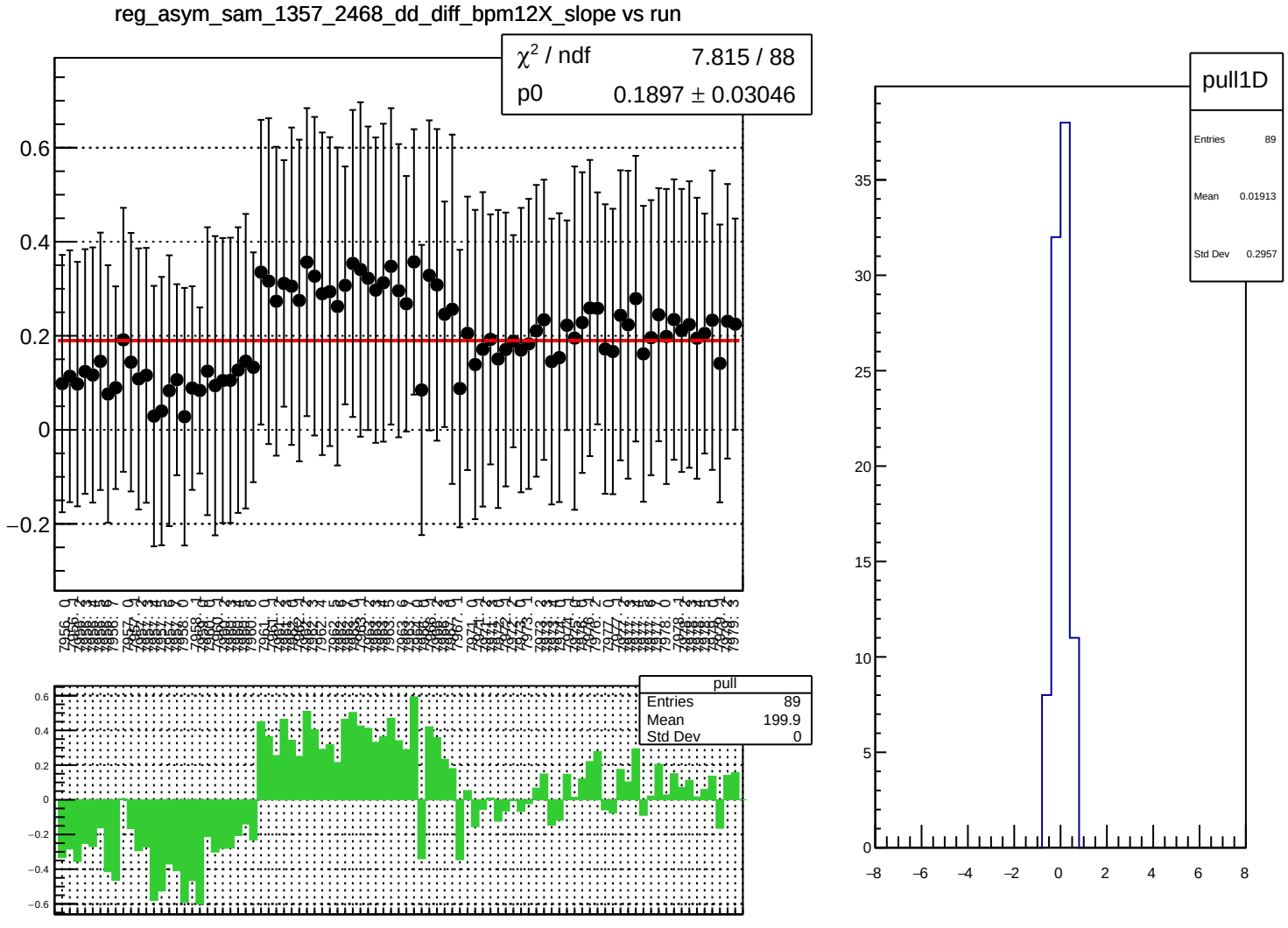

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.488 / 88
p0 1.391 ± 0.9252
pull
Entries 89
Mean 191.2
Std Dev 0

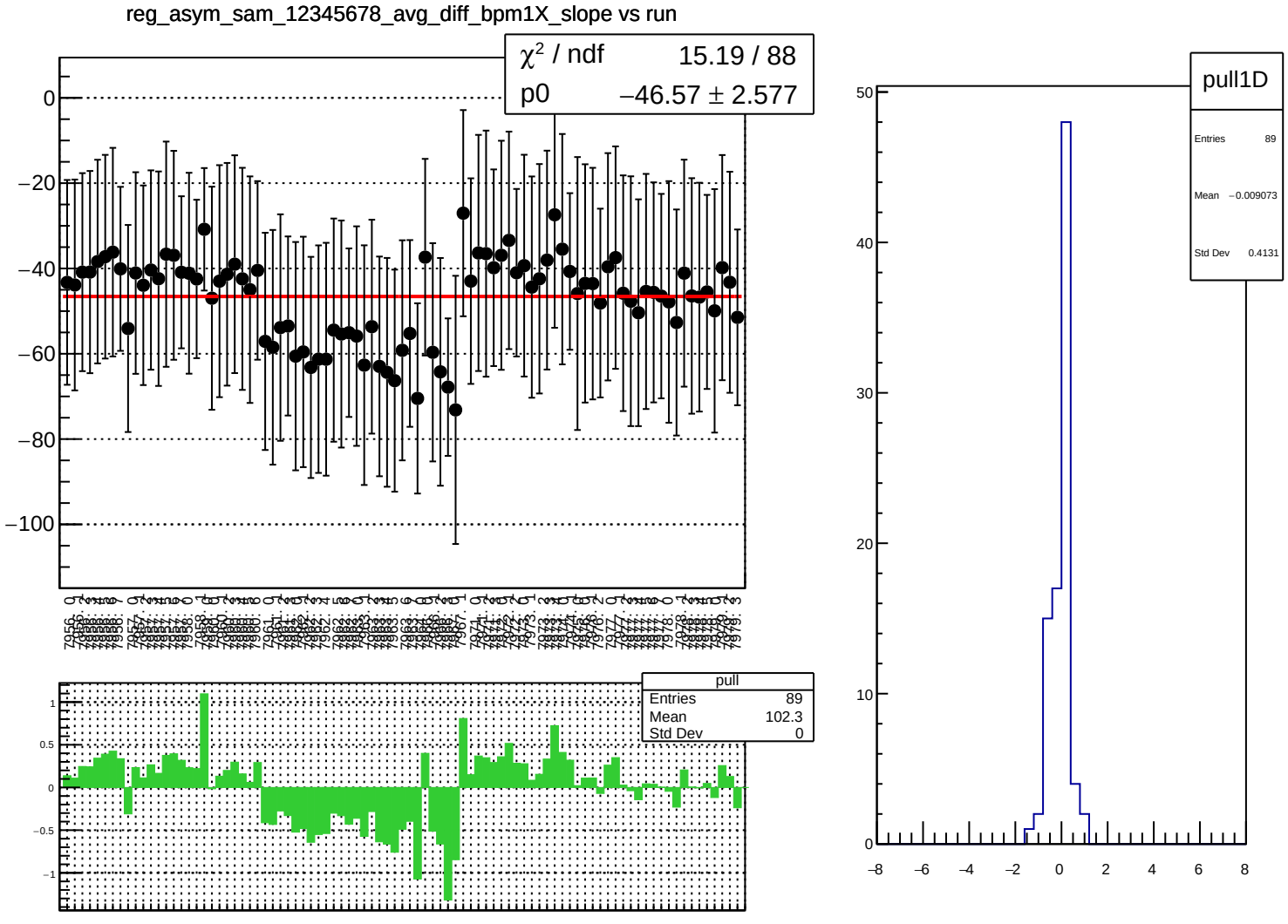

pull1D
Entries 89
Mean 0.006182
Std Dev 0.1292

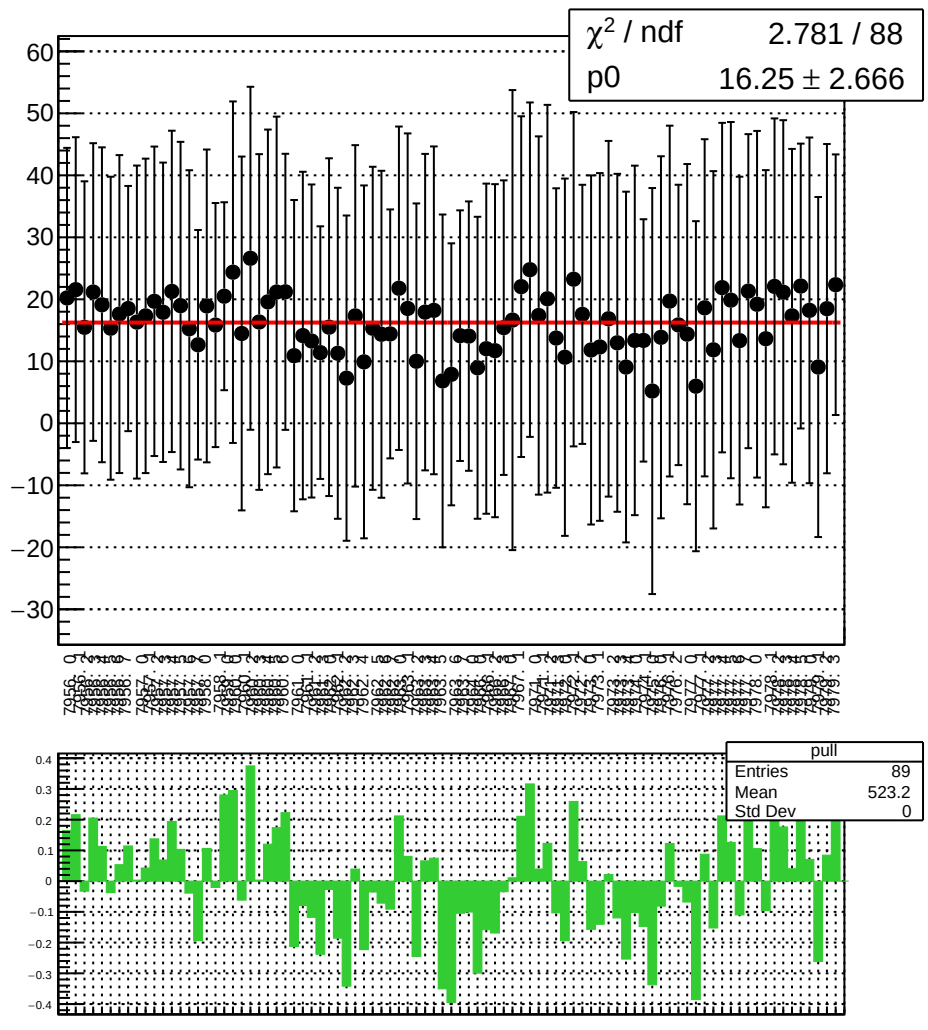

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.866 / 88
p0 14.86 ± 0.7924
pull
Entries 89
Mean 211.4
Std Dev 0

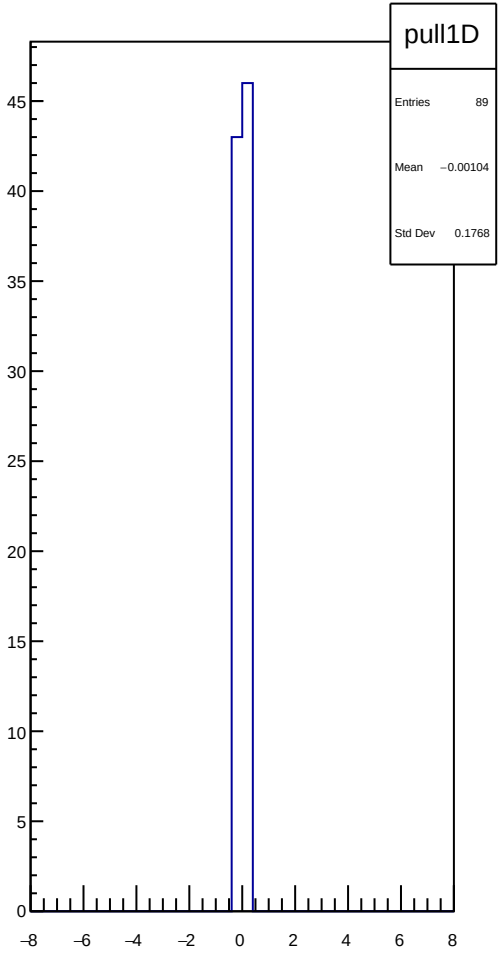

pull1D
Entries 89
Mean 0.01441
Std Dev 0.2079

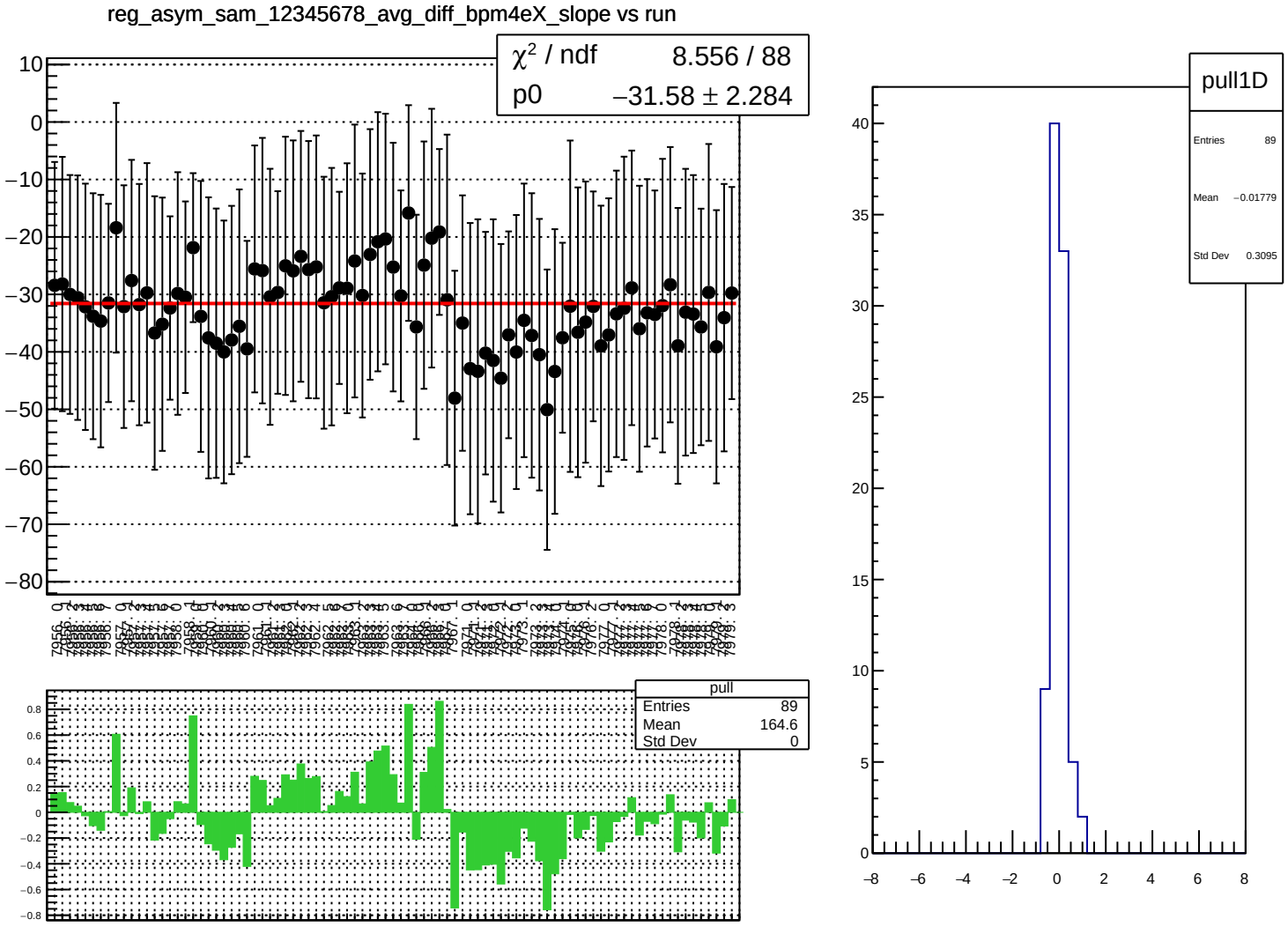

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.338 / 88
p0 −6.938 ± 1.06
pull
Entries 89
Mean 224.3
Std Dev 0
pull1D
Entries 89
Mean −0.005241
Std Dev 0.1225

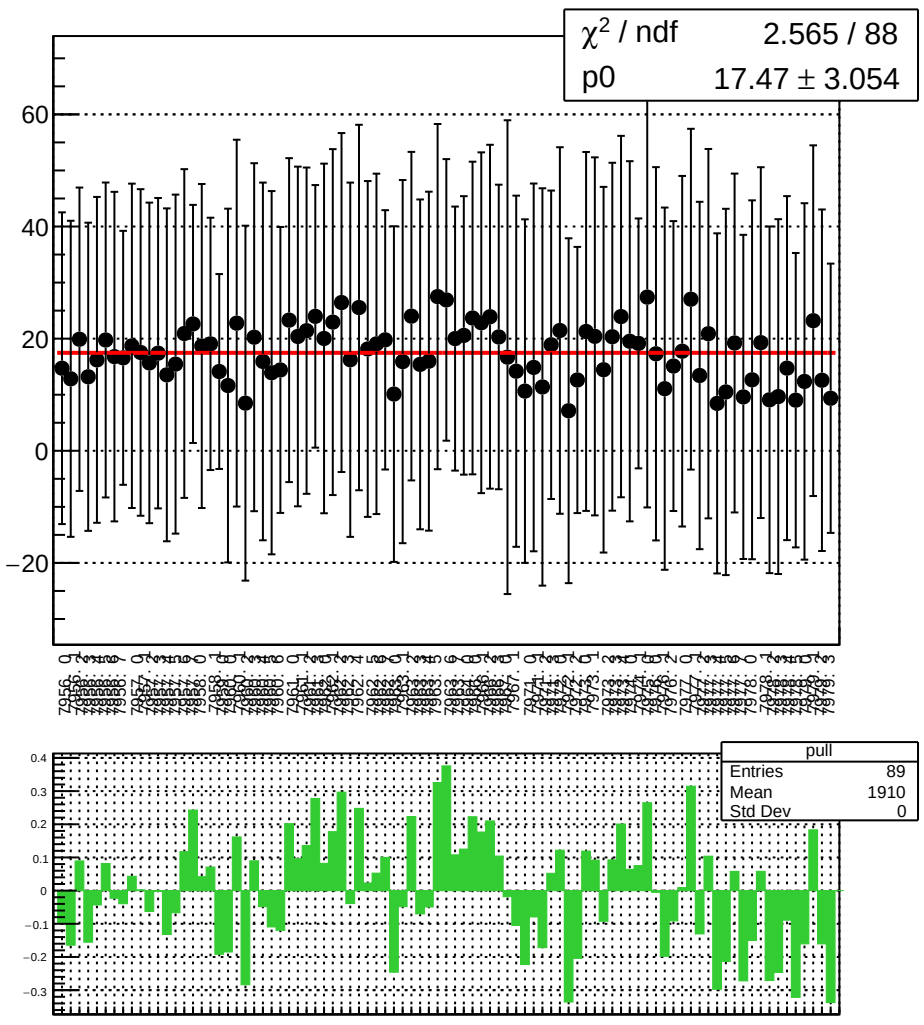

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 7.815 / 88
p0 0.1897 ± 0.03046
0.6
0.4
0.2
0
−0.2
pull
Entries 89
Mean 199.9
Std Dev 0
pull1D
Entries 89
Mean 0.01913
Std Dev 0.2957
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

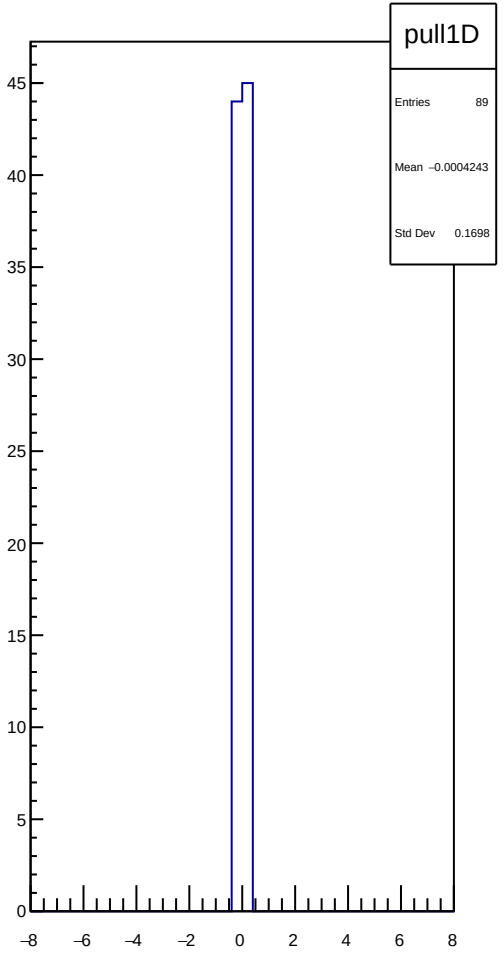

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 15.19 / 88
p0 −46.57 ± 2.577
pull
Entries 89
Mean 102.3
Std Dev 0
pull1D
Entries 89
Mean −0.009073
Std Dev 0.4131

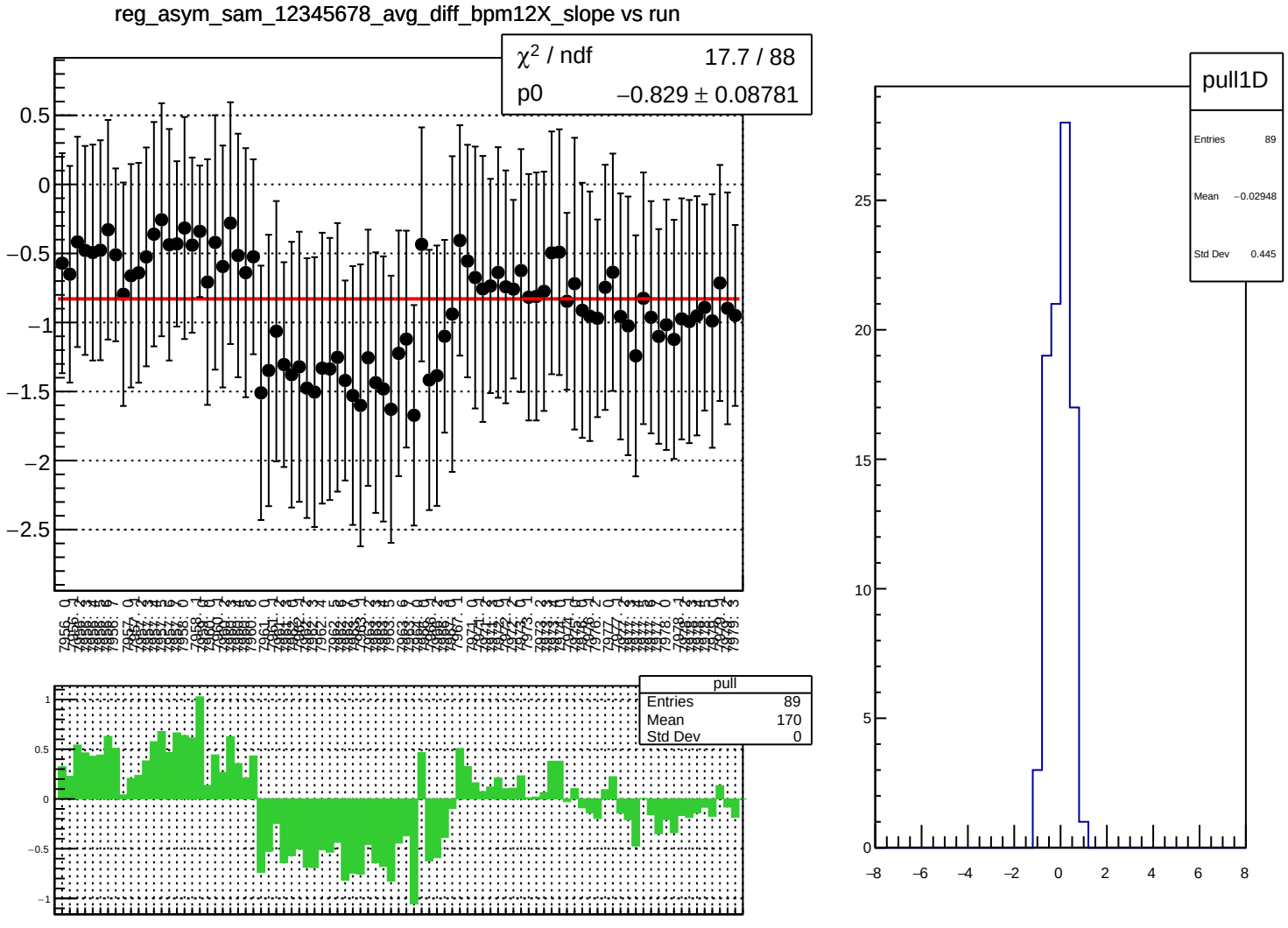

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.781 / 88
p0 16.25 ± 2.666
pull
Entries 89
Mean 523.2
Std Dev 0

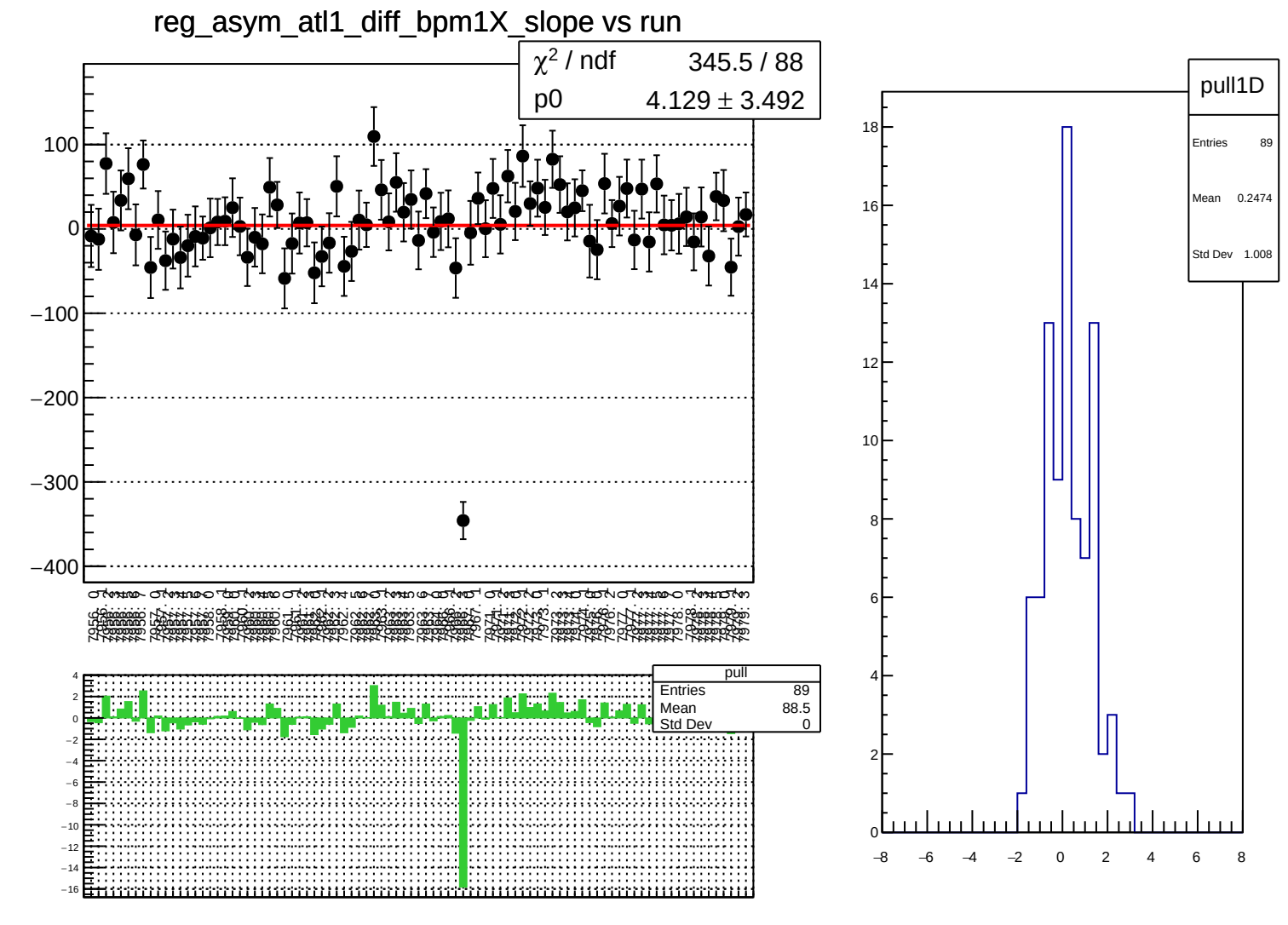

pull1D
Entries 89
Mean −0.00104
Std Dev 0.1768

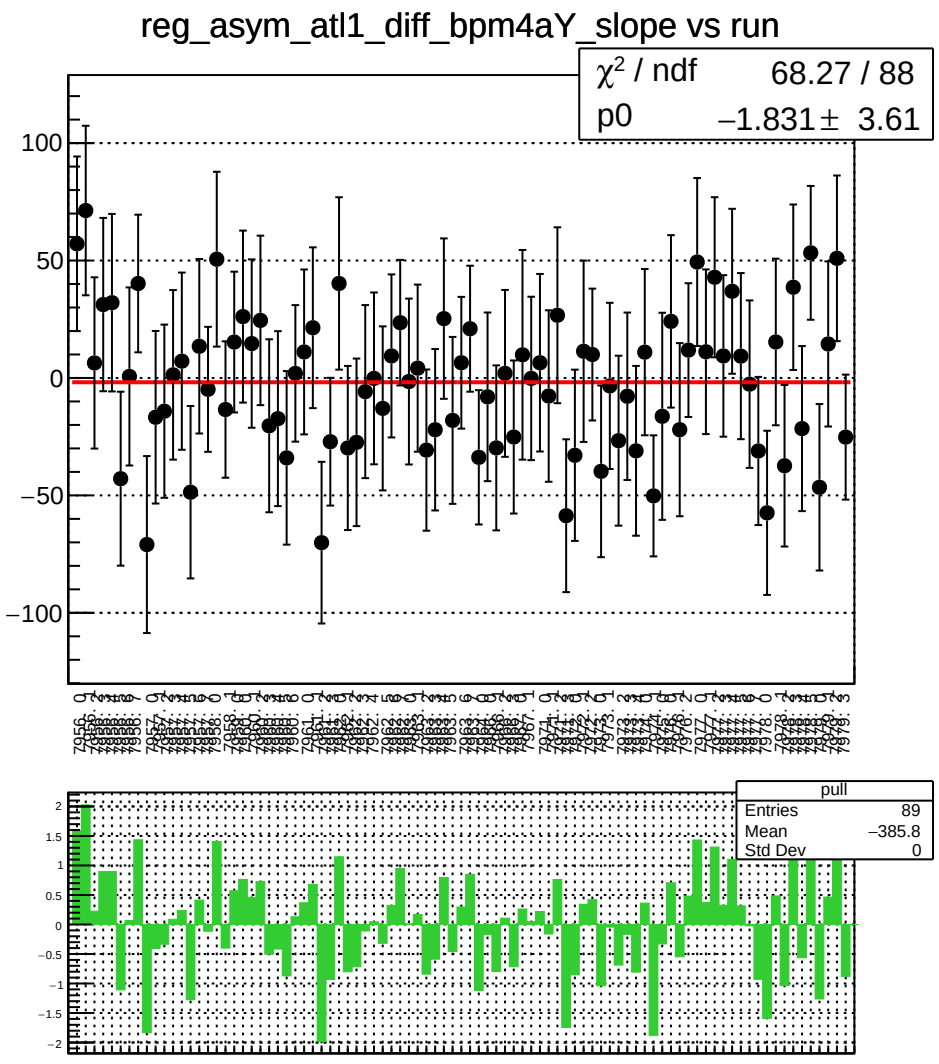

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.556 / 88
p0 −31.58 ± 2.284
pull
Entries 89
Mean 164.6
Std Dev 0
pull1D
Entries 89
Mean −0.01779
Std Dev 0.3095

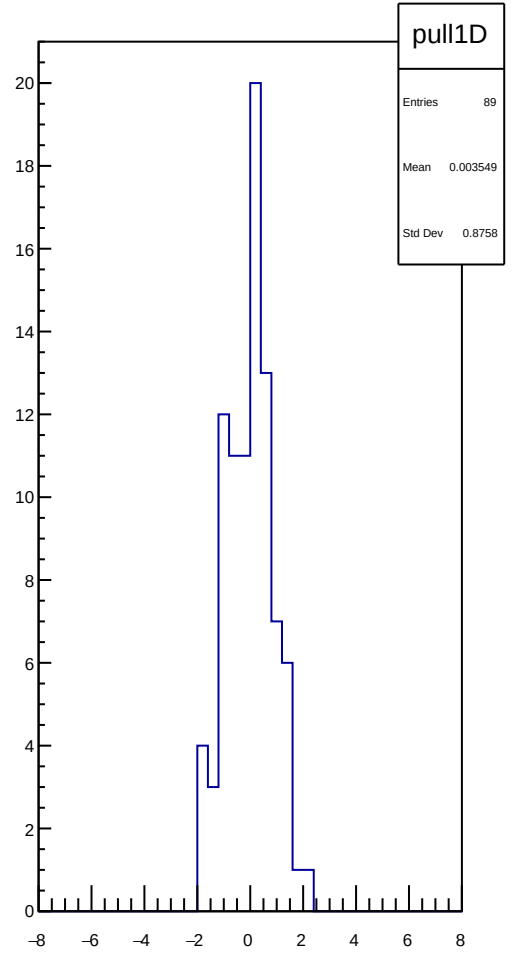

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.565 / 88
p0 17.47 ± 3.054
pull
Entries 89
Mean 1910
Std Dev 0

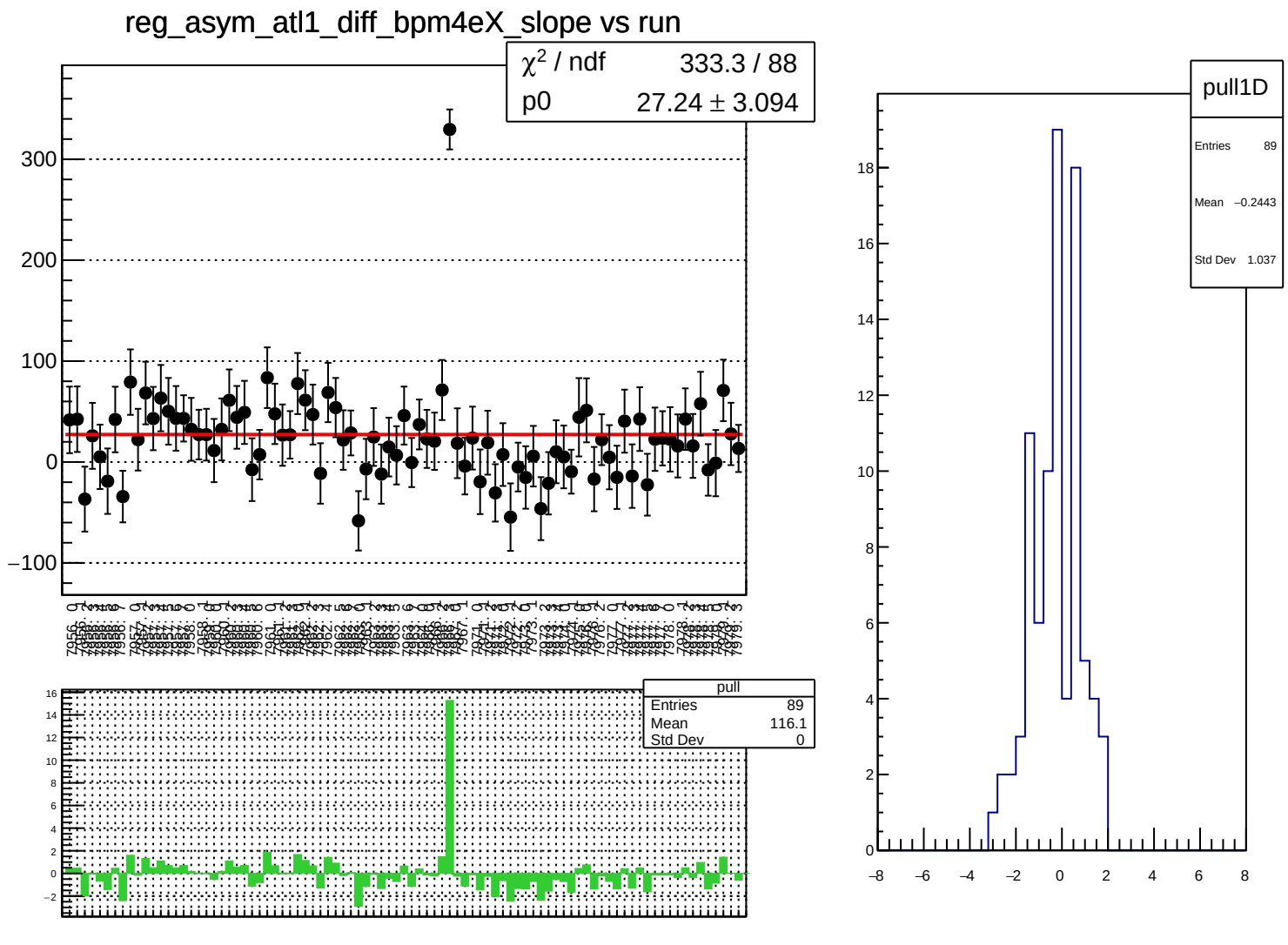

pull1D
Entries 89
Mean −0.0004243
Std Dev 0.1698

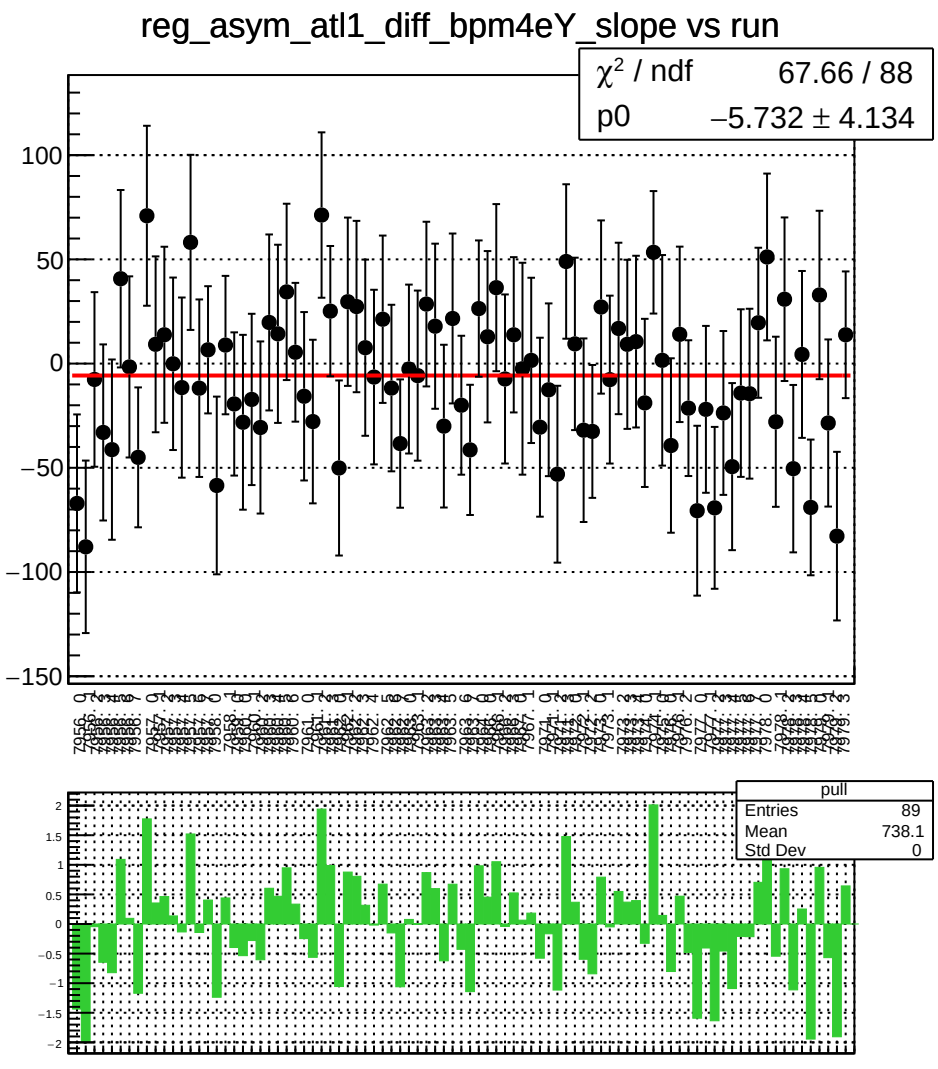

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 17.7 / 88
p0 −0.829 ± 0.08781
pull
Entries 89
Mean 170
Std Dev 0
pull1D
Entries 89
Mean −0.02948
Std Dev 0.445

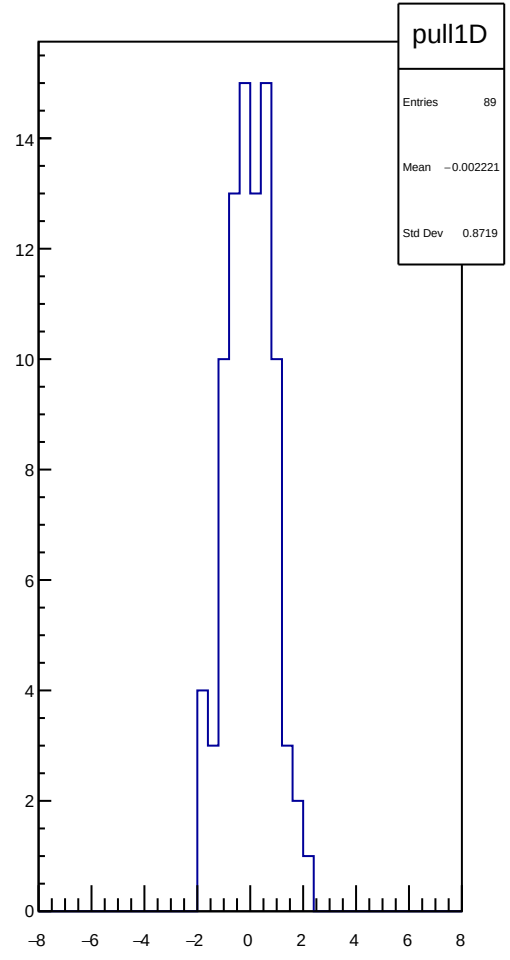

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 345.5 / 88
p0 4.129 ± 3.492
pull
Entries 89
Mean 88.5
Std Dev 0
pull1D
Entries 89
Mean 0.2474
Std Dev 1.008

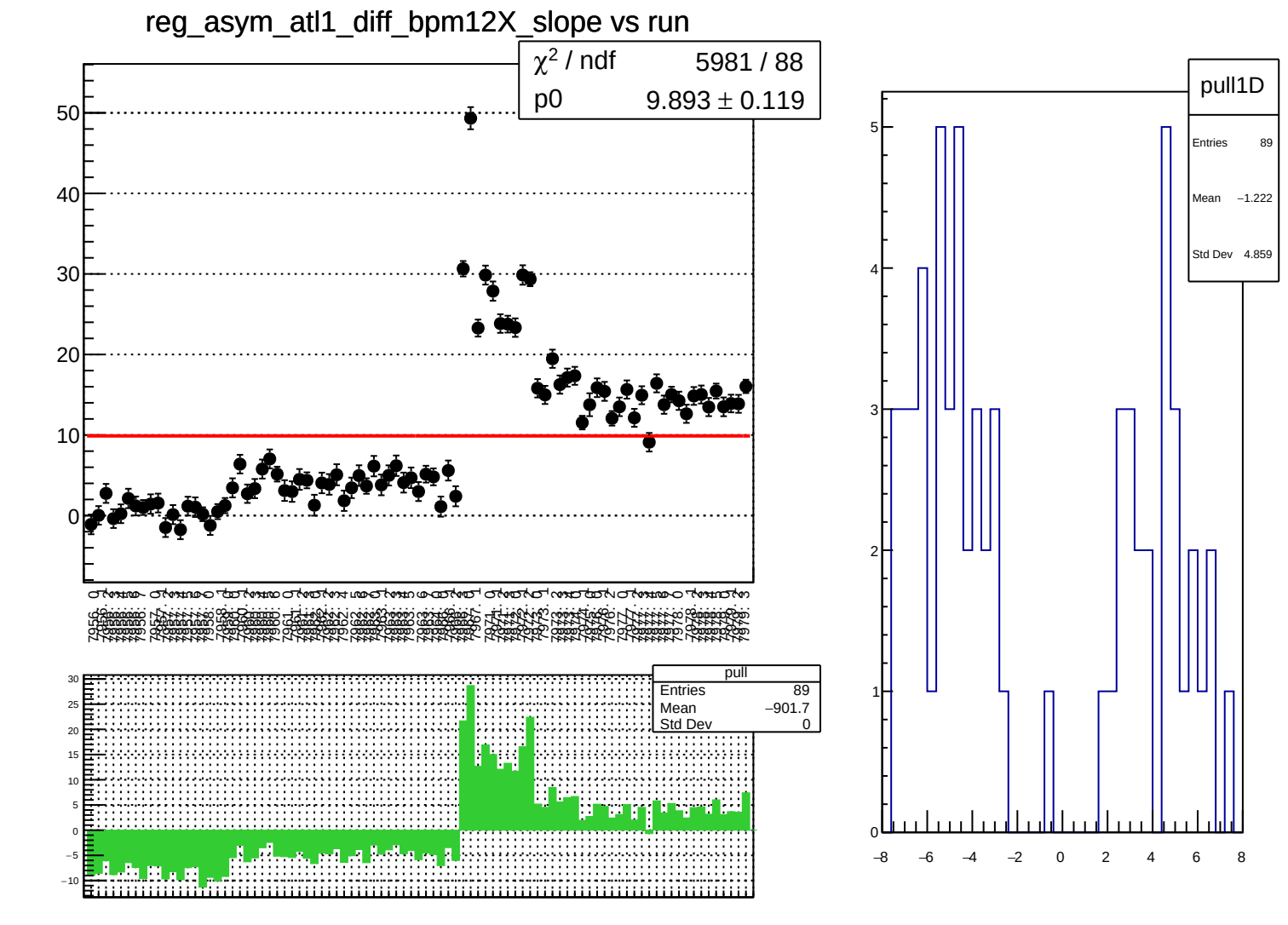

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 68.27 / 88
p0 −1.831 ± 3.61
pull
Entries 89
Mean −385.8
Std Dev 0

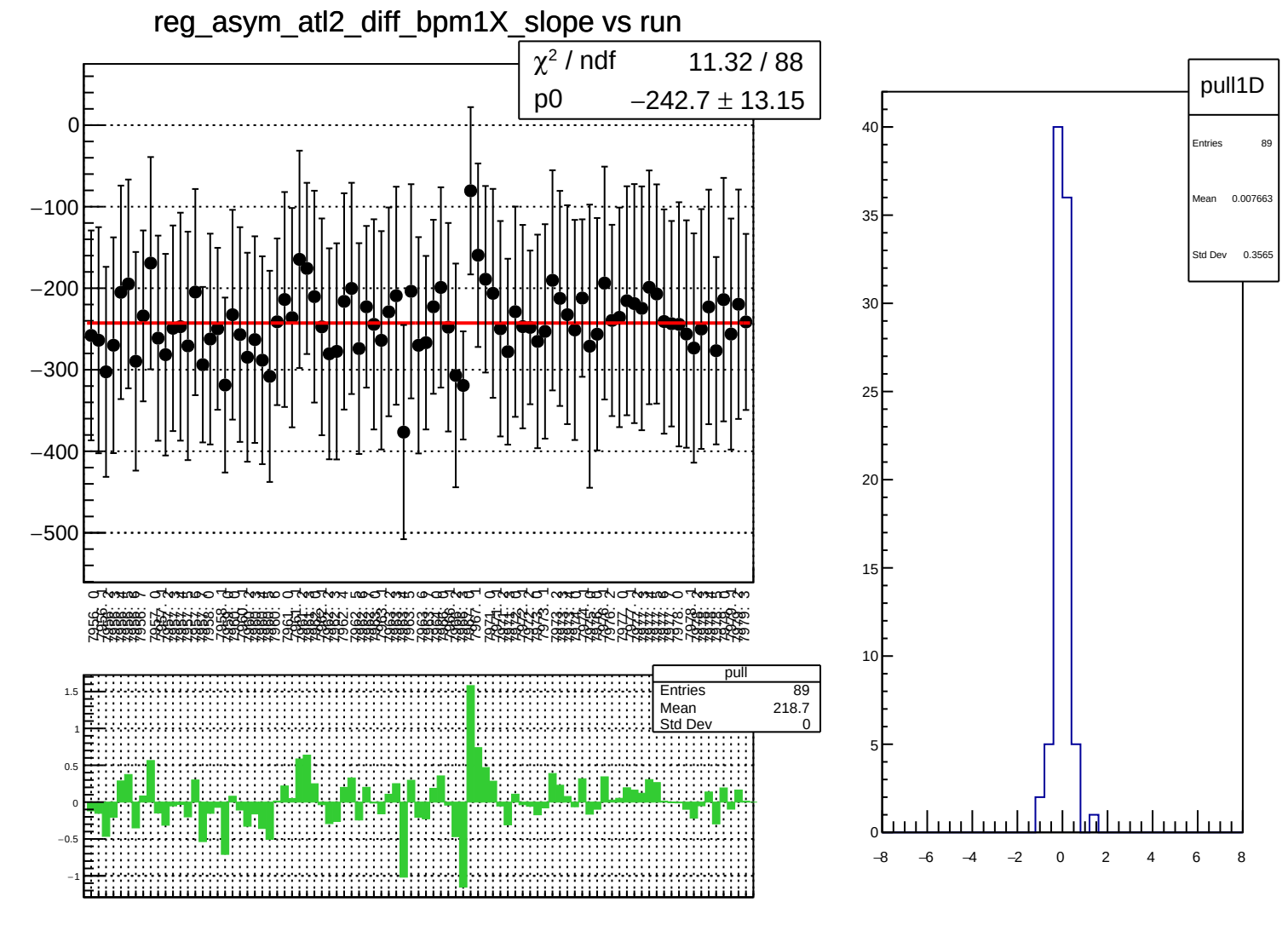

pull1D
Entries 89
Mean 0.003549
Std Dev 0.8758

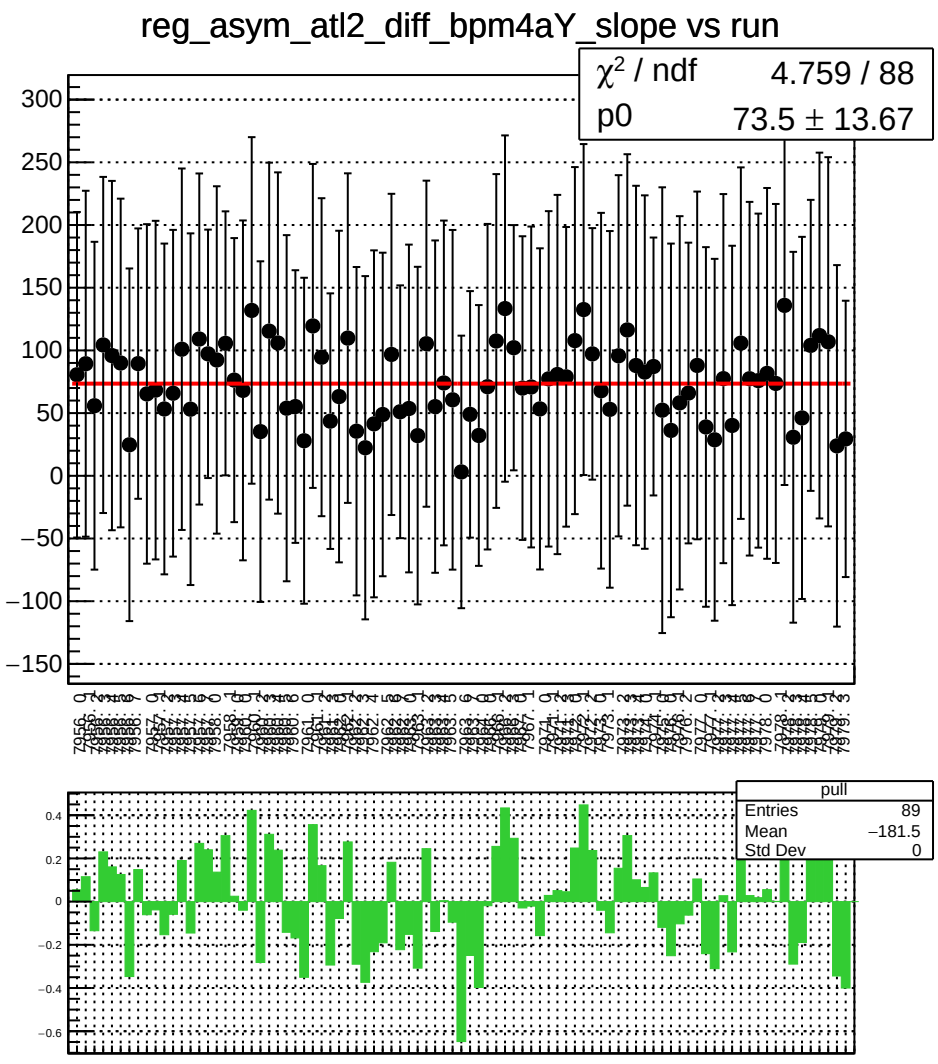

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 333.3 / 88
p0 27.24 ± 3.094
300
200
100
0
−100
pull
Entries 89
Mean 116.1
Std Dev 0
16
14
12
10
8
6
4
2
0
−2
pull1D
Entries 89
Mean −0.2443
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

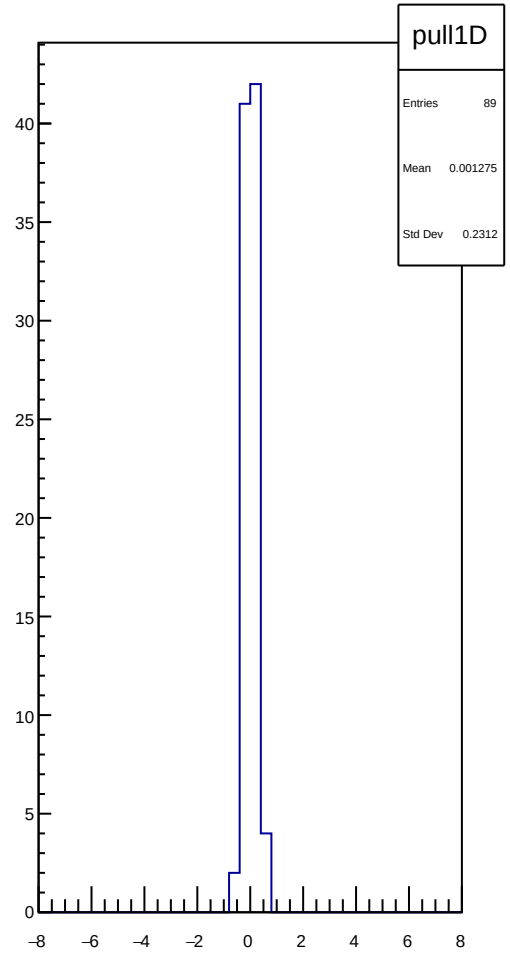

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 67.66 / 88
p0 −5.732 ± 4.134
pull
Entries 89
Mean 738.1
Std Dev 0

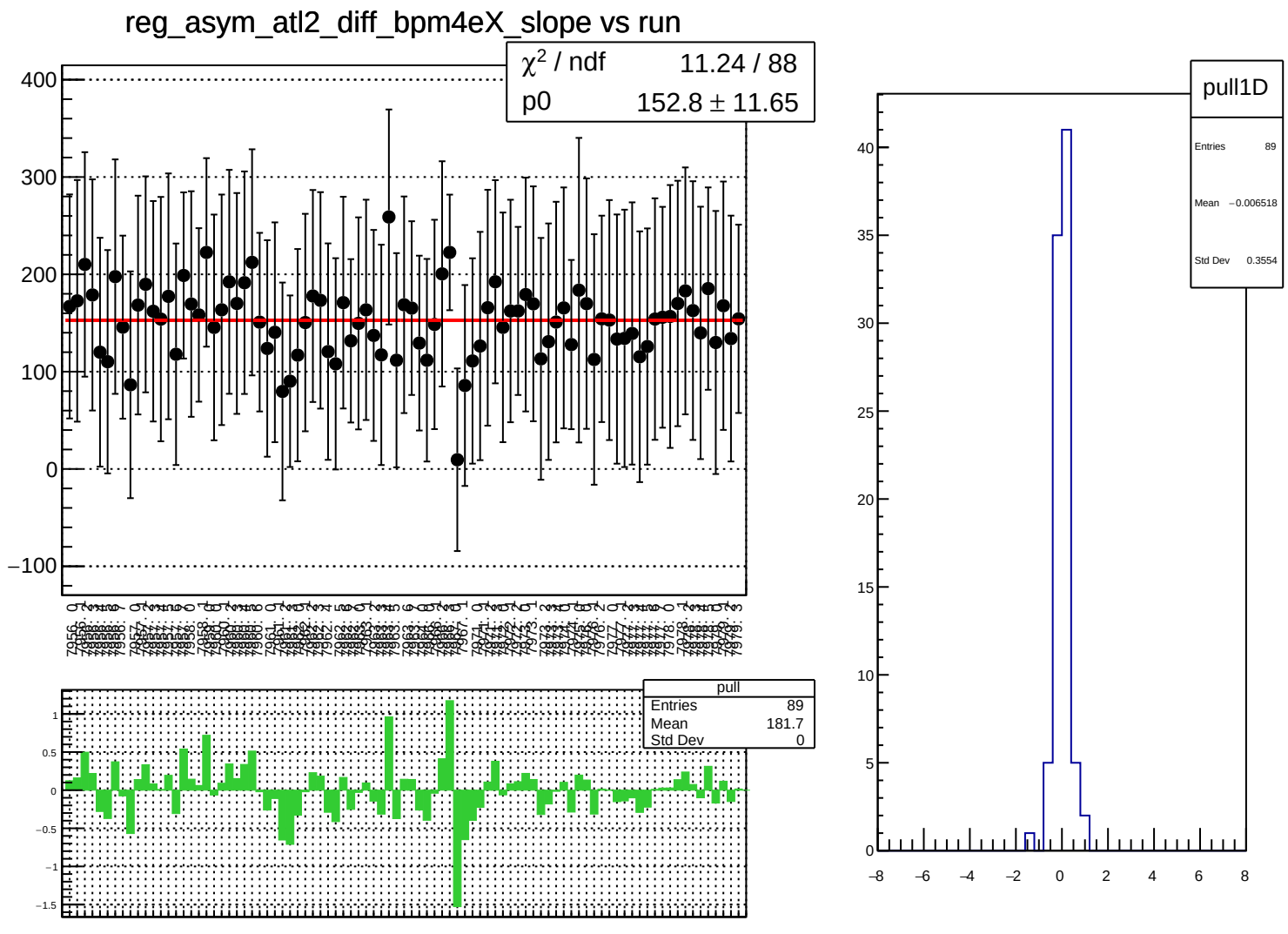

pull1D
Entries 89
Mean −0.002221
Std Dev 0.8719

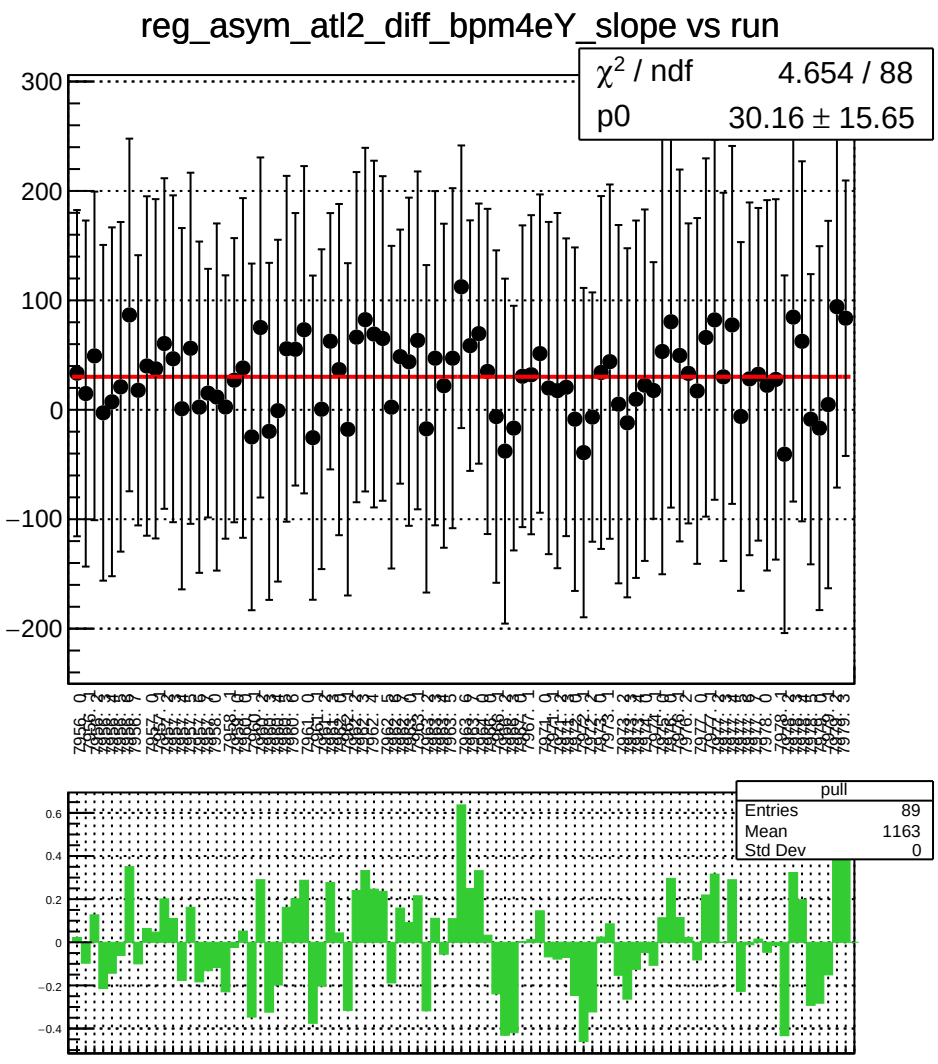

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 5981 / 88
p0 9.893 ± 0.119
pull
Entries 89
Mean −901.7
Std Dev 0
pull1D
Entries 89
Mean −1.222
Std Dev 4.859

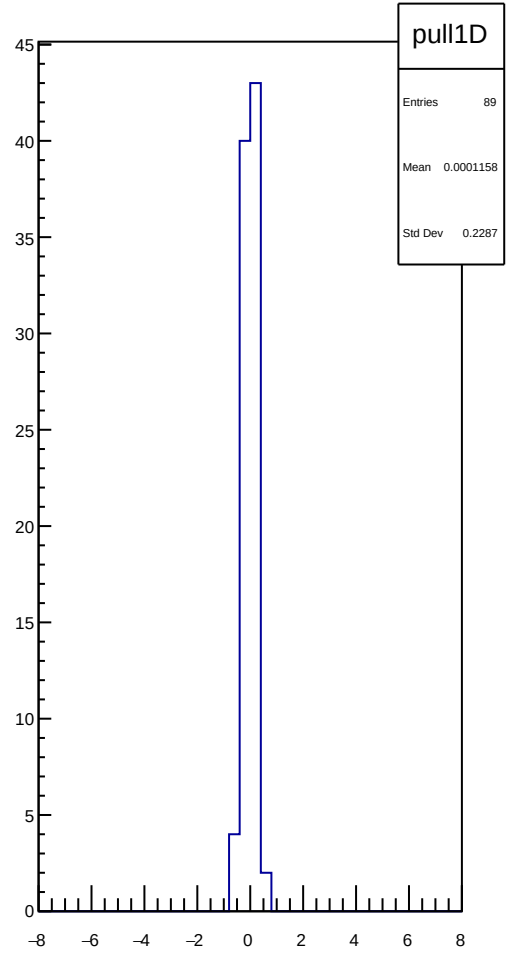

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 11.32 / 88
p0 −242.7 ± 13.15
pull
Entries 89
Mean 218.7
Std Dev 0
pull1D
Entries 89
Mean 0.007663
Std Dev 0.3565

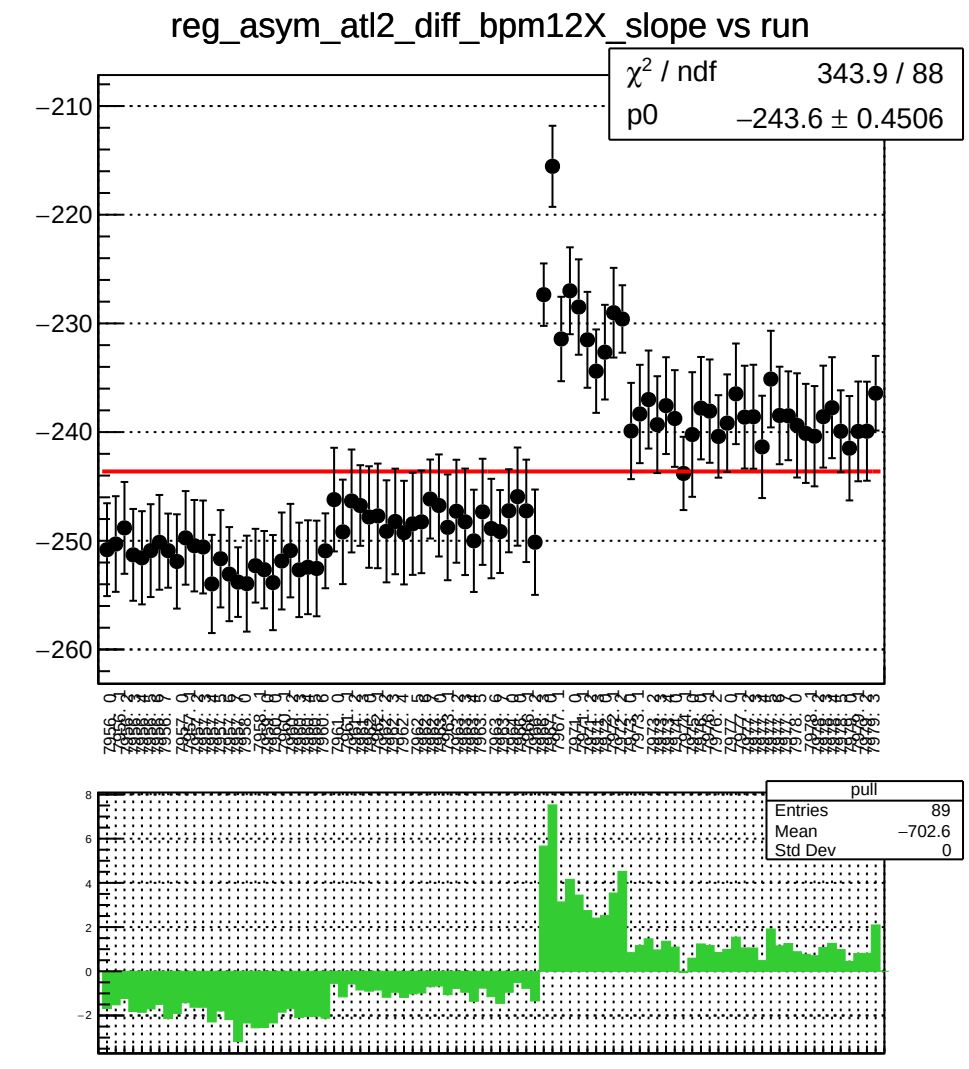

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 4.759 / 88
p0 73.5 ± 13.67
pull
Entries 89
Mean −181.5
Std Dev 0

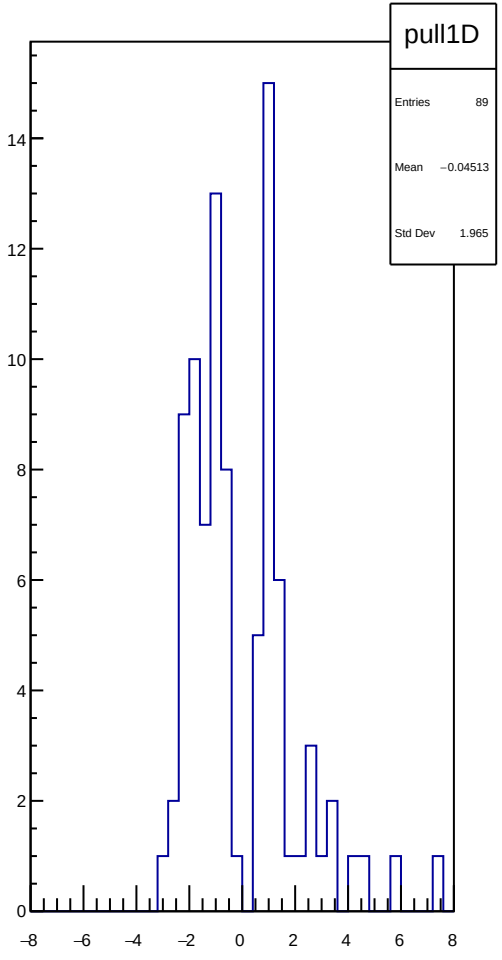

pull1D
Entries 89
Mean 0.001275
Std Dev 0.2312

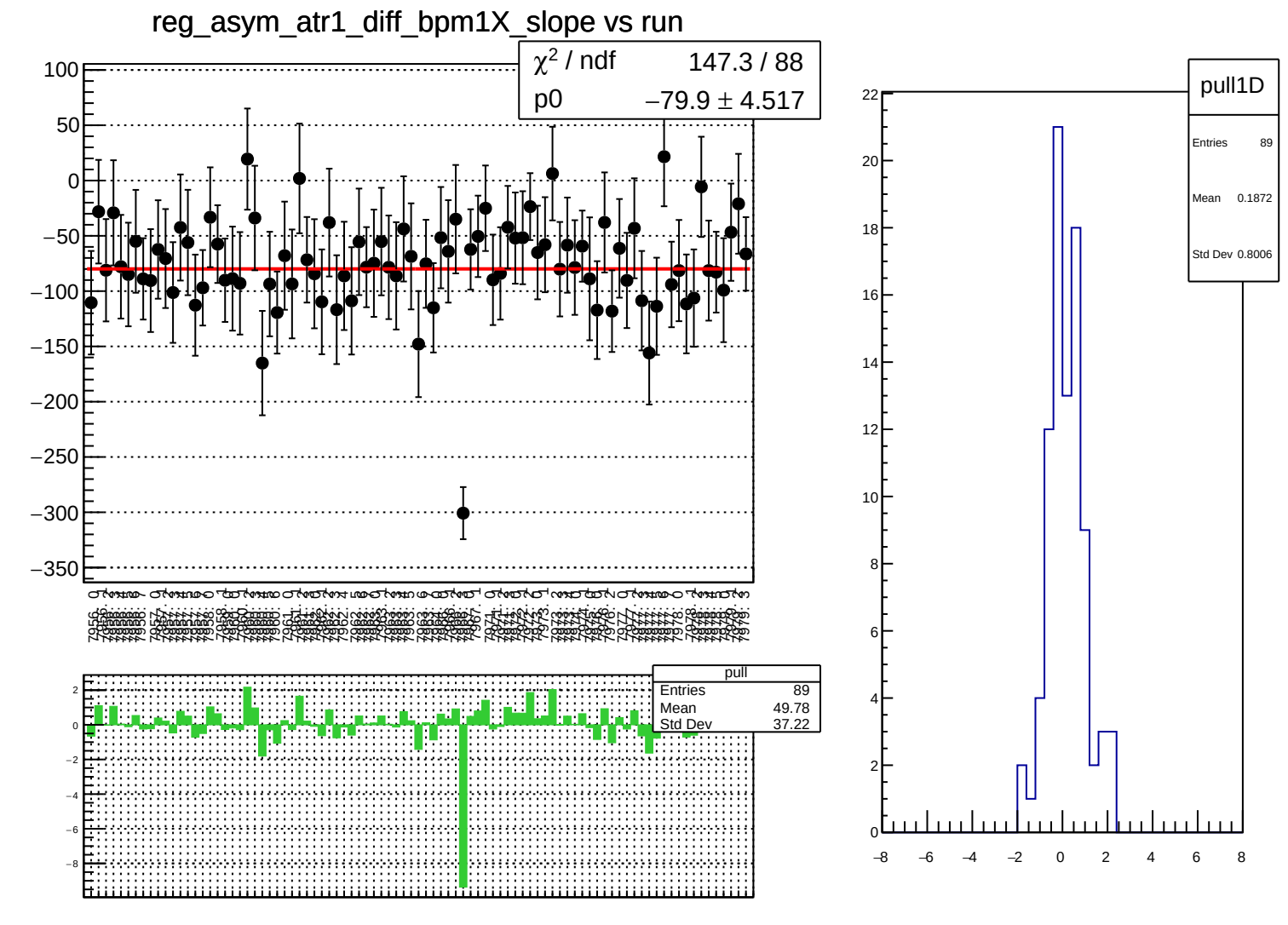

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 11.24 / 88
p0 152.8 ± 11.65
pull
Entries 89
Mean 181.7
Std Dev 0
pull1D
Entries 89
Mean −0.006518
Std Dev 0.3554

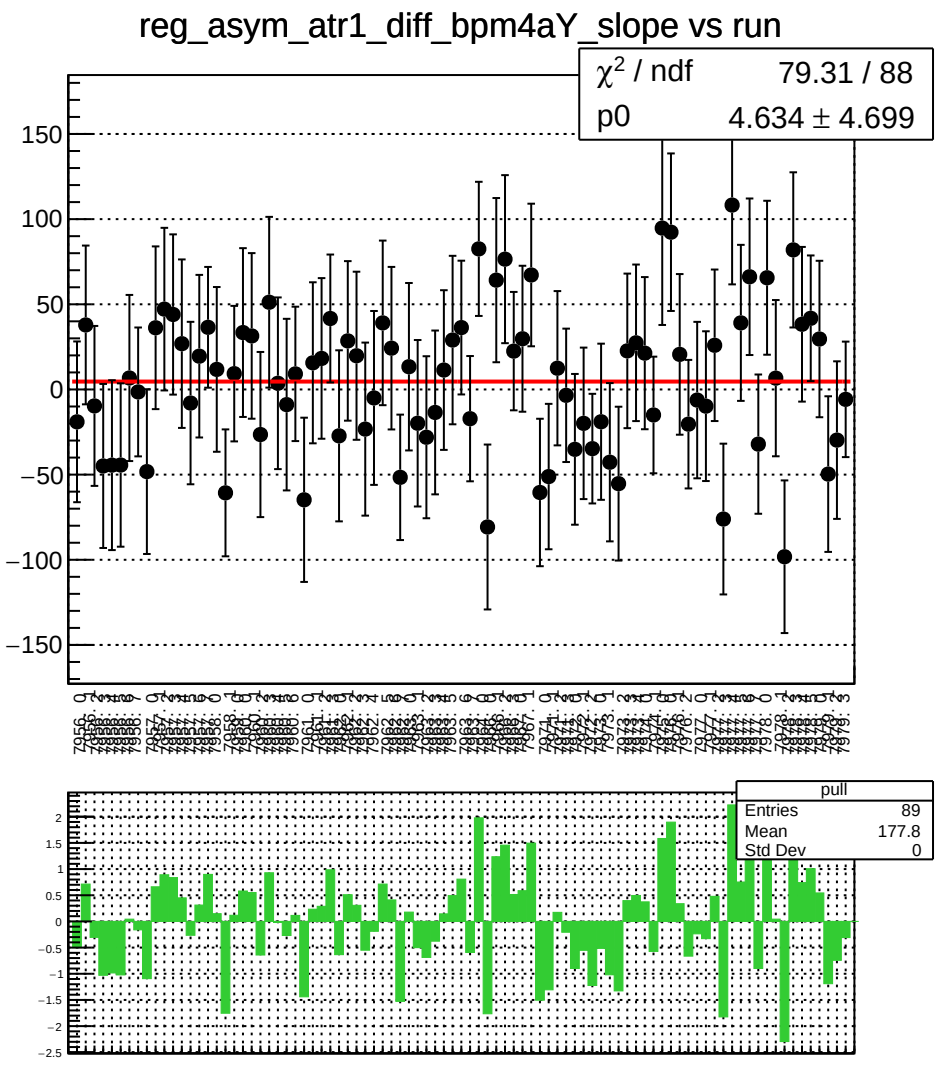

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 4.654 / 88
p0 30.16 ± 15.65
pull
Entries 89
Mean 1163
Std Dev 0

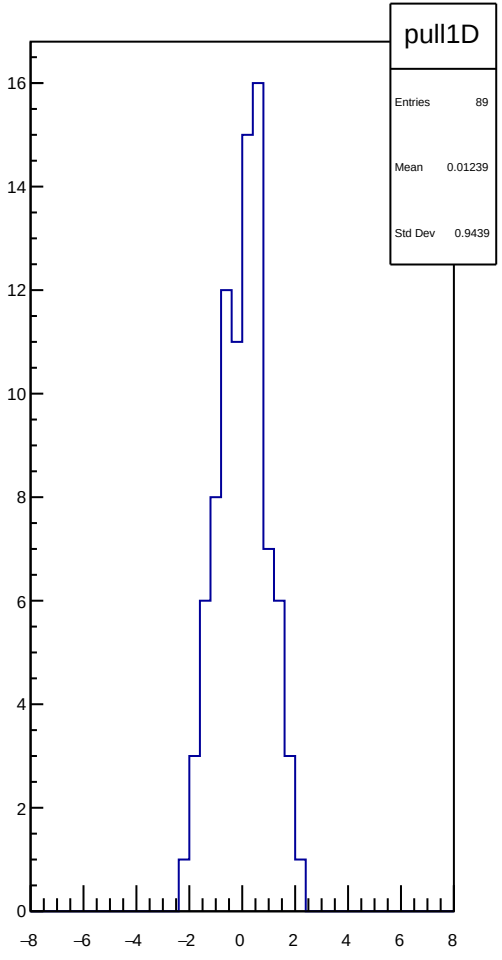

pull1D
Entries 89
Mean 0.0001158
Std Dev 0.2287

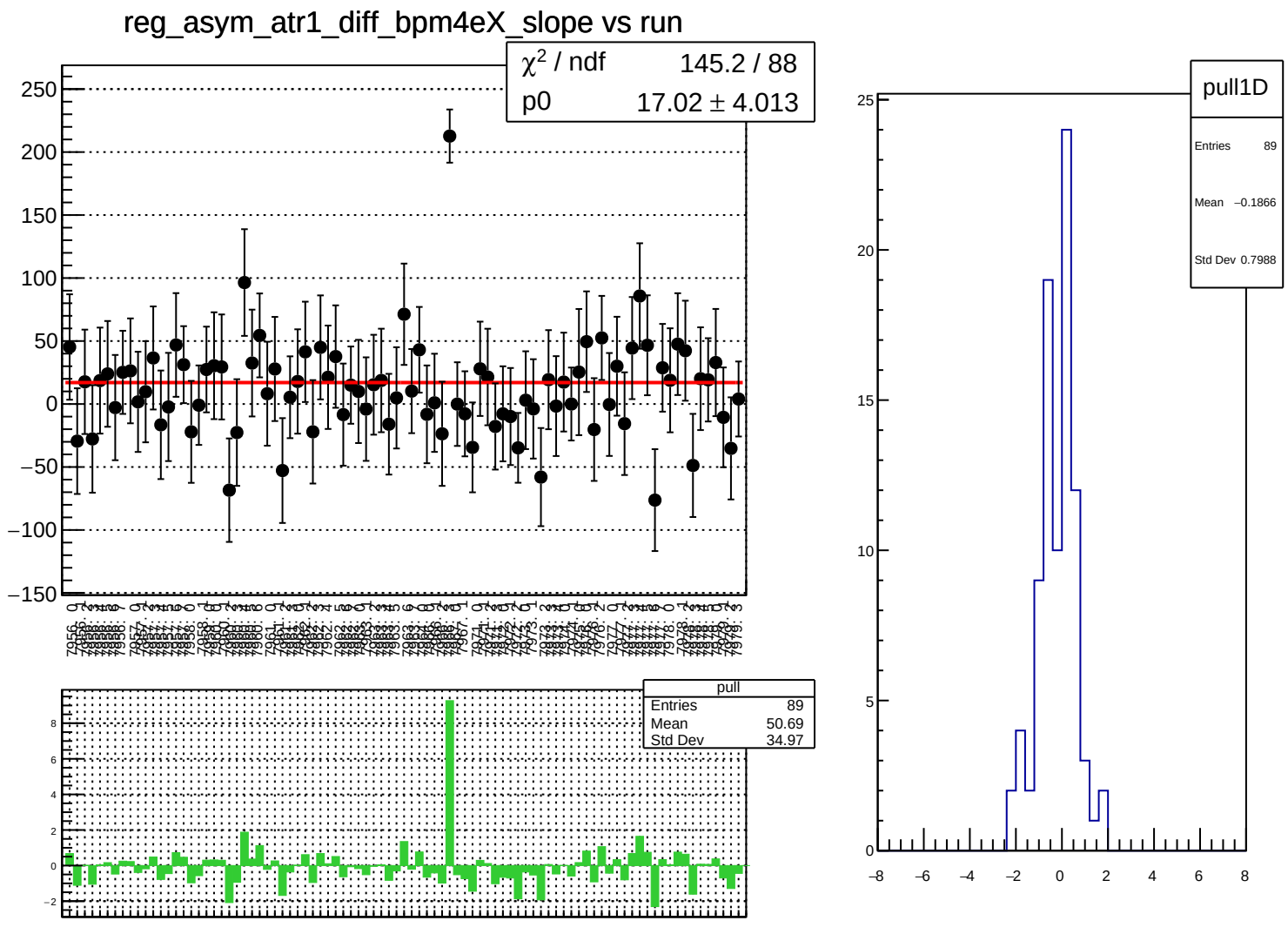

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 343.9 / 88
p0 −243.6 ± 0.4506
pull
Entries 89
Mean −702.6
Std Dev 0

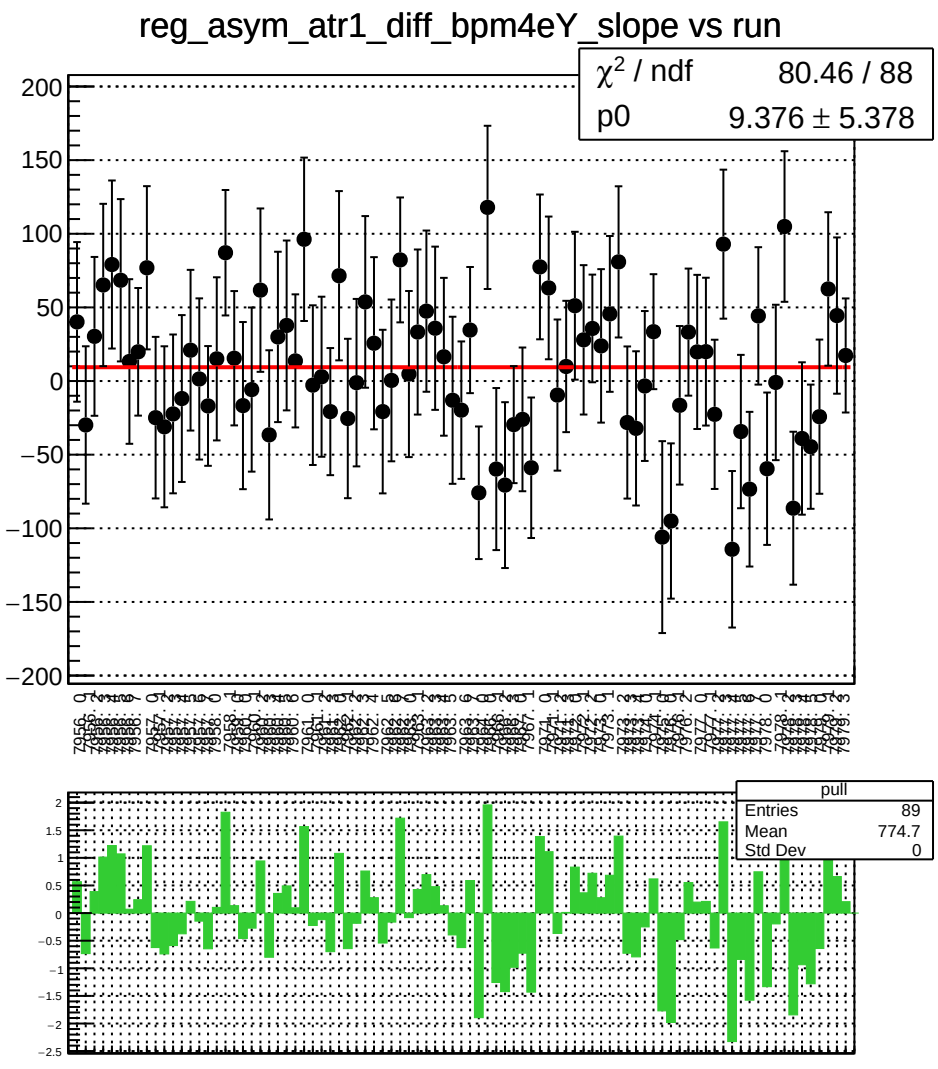

pull1D
Entries 89
Mean −0.04513
Std Dev 1.965

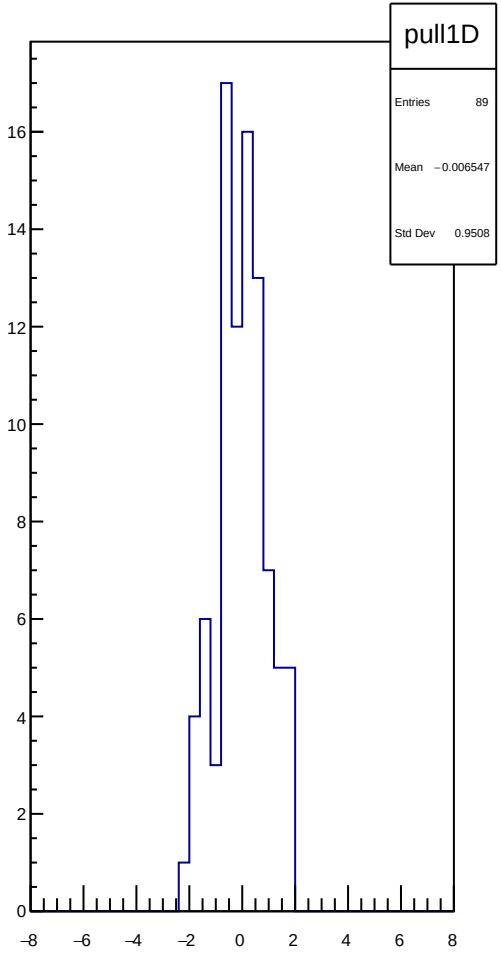

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 147.3 / 88
p0 −79.9 ± 4.517
pull
Entries 89
Mean 49.78
Std Dev 37.22
pull1D
Entries 89
Mean 0.1872
Std Dev 0.8006

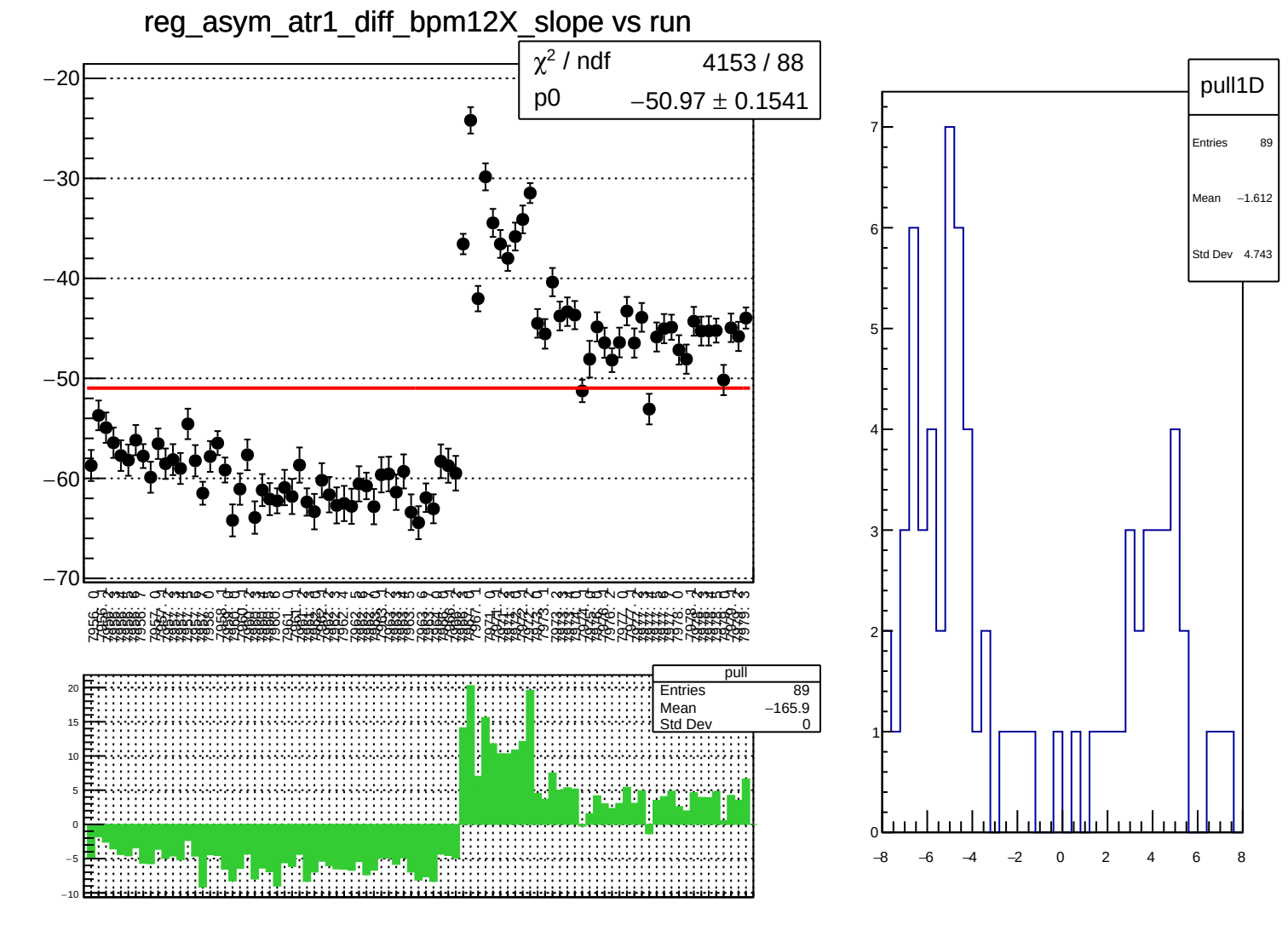

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 79.31 / 88
p0 4.634 ± 4.699
pull
Entries 89
Mean 177.8
Std Dev 0

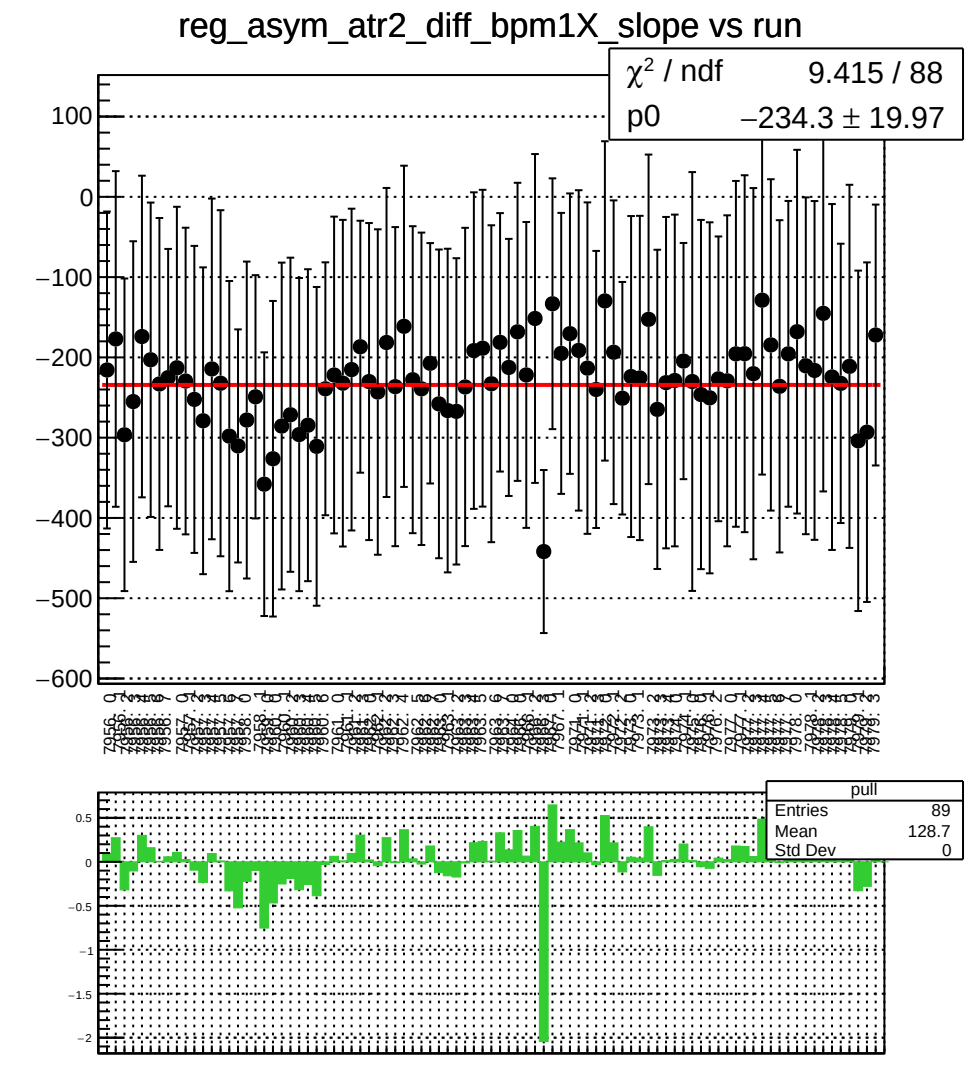

pull1D
Entries 89
Mean 0.01239
Std Dev 0.9439

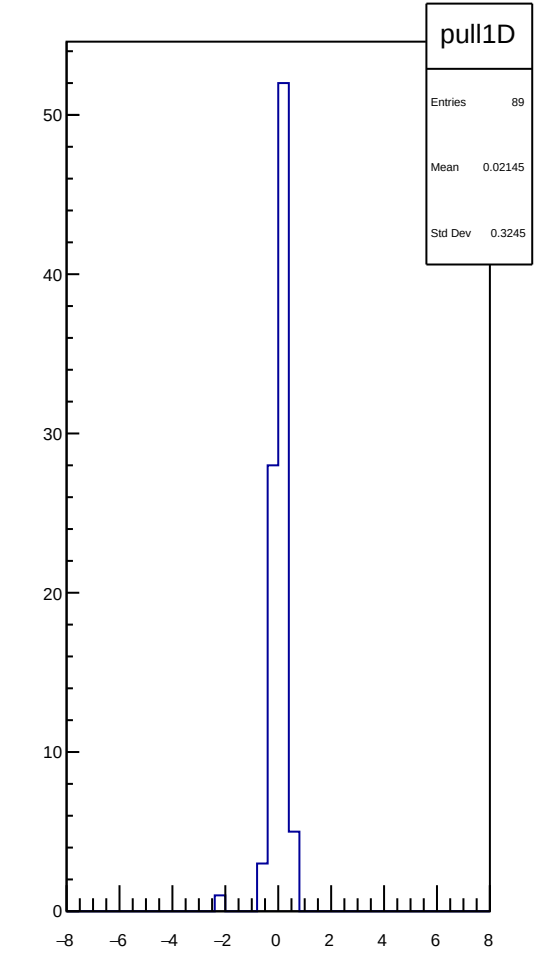

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 145.2 / 88
p0 17.02 ± 4.013
pull
Entries 89
Mean 50.69
Std Dev 34.97
pull1D
Entries 89
Mean −0.1866
Std Dev 0.7988

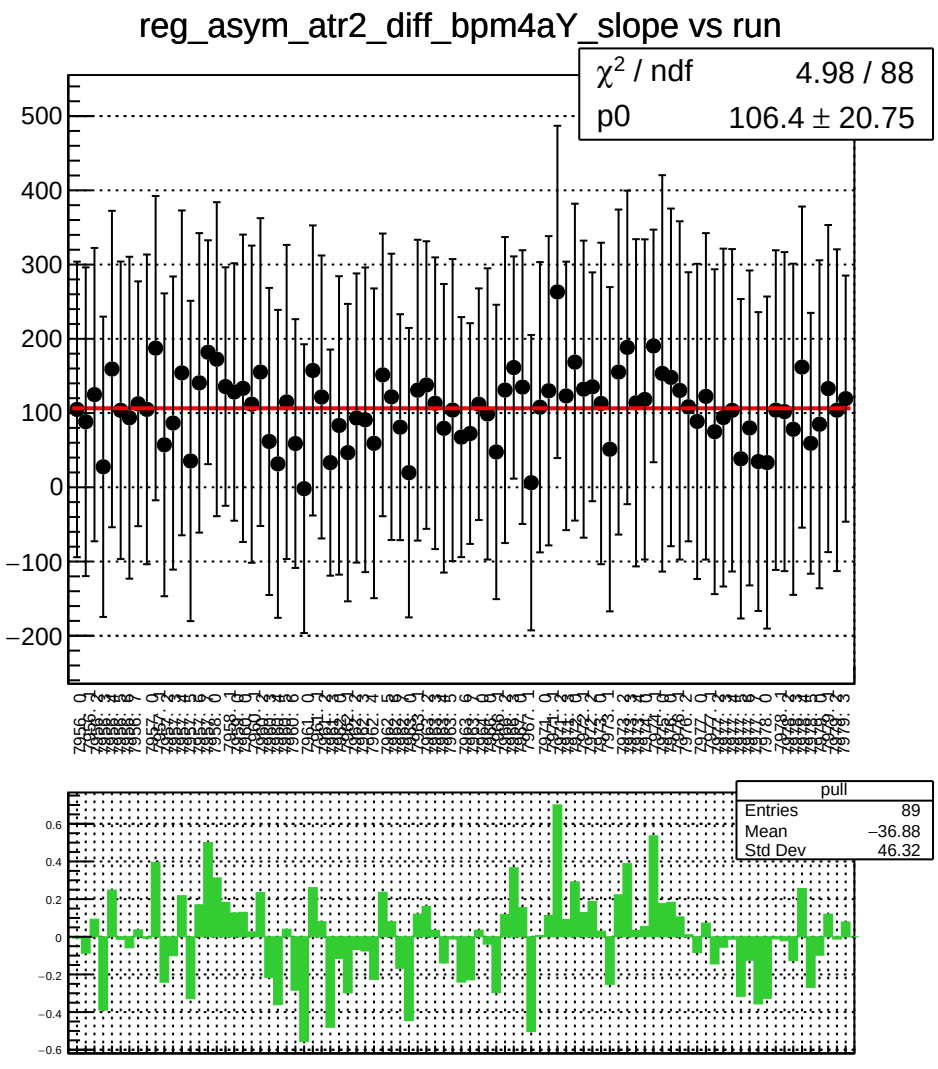

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 80.46 / 88
p0 9.376 ± 5.378
pull
Entries 89
Mean 774.7
Std Dev 0

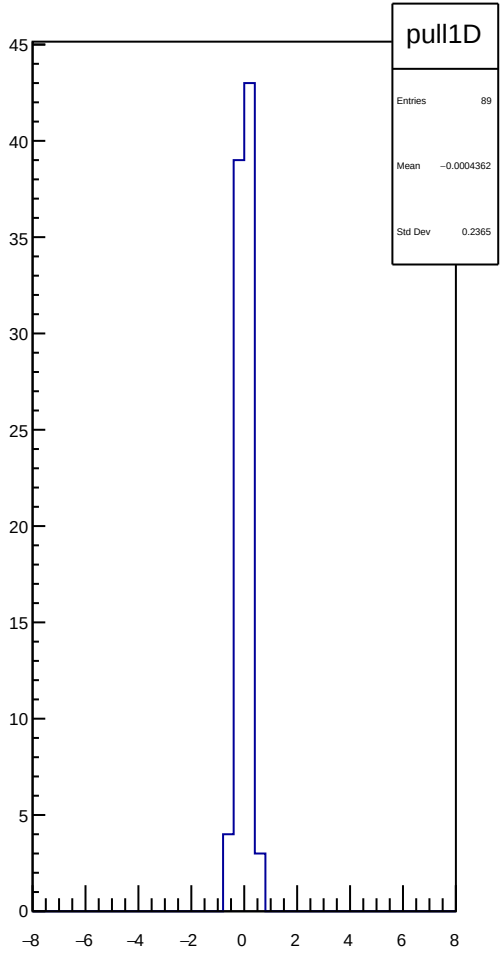

pull1D
Entries 89
Mean −0.006547
Std Dev 0.9508

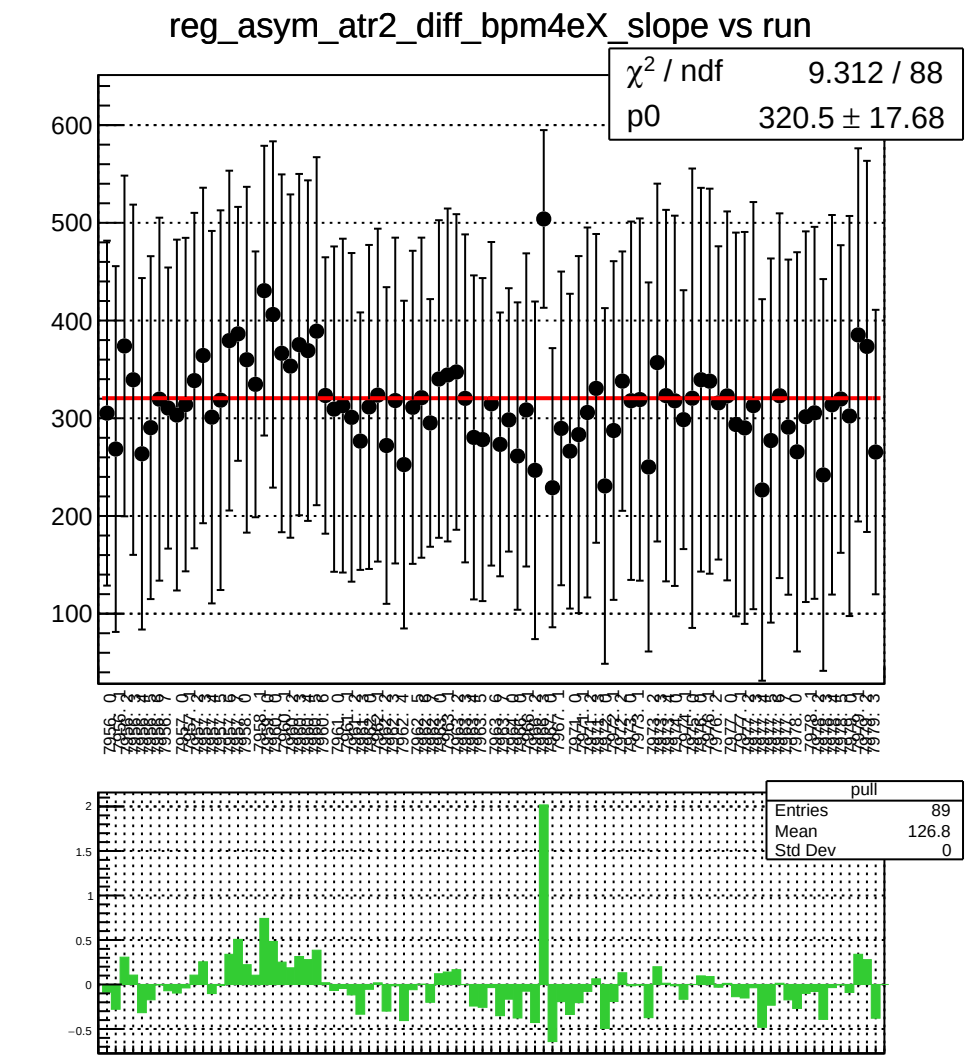

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 4153 / 88
p0 −50.97 ± 0.1541
pull
Entries 89
Mean −165.9
Std Dev 0
pull1D
Entries 89
Mean −1.612
Std Dev 4.743

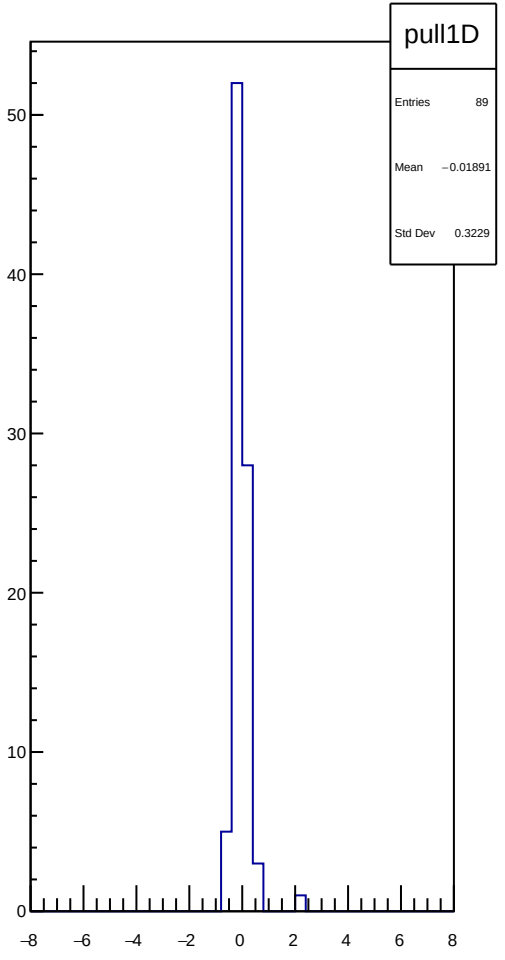

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 9.415 / 88
p0 −234.3 ± 19.97
pull
Entries 89
Mean 128.7
Std Dev 0

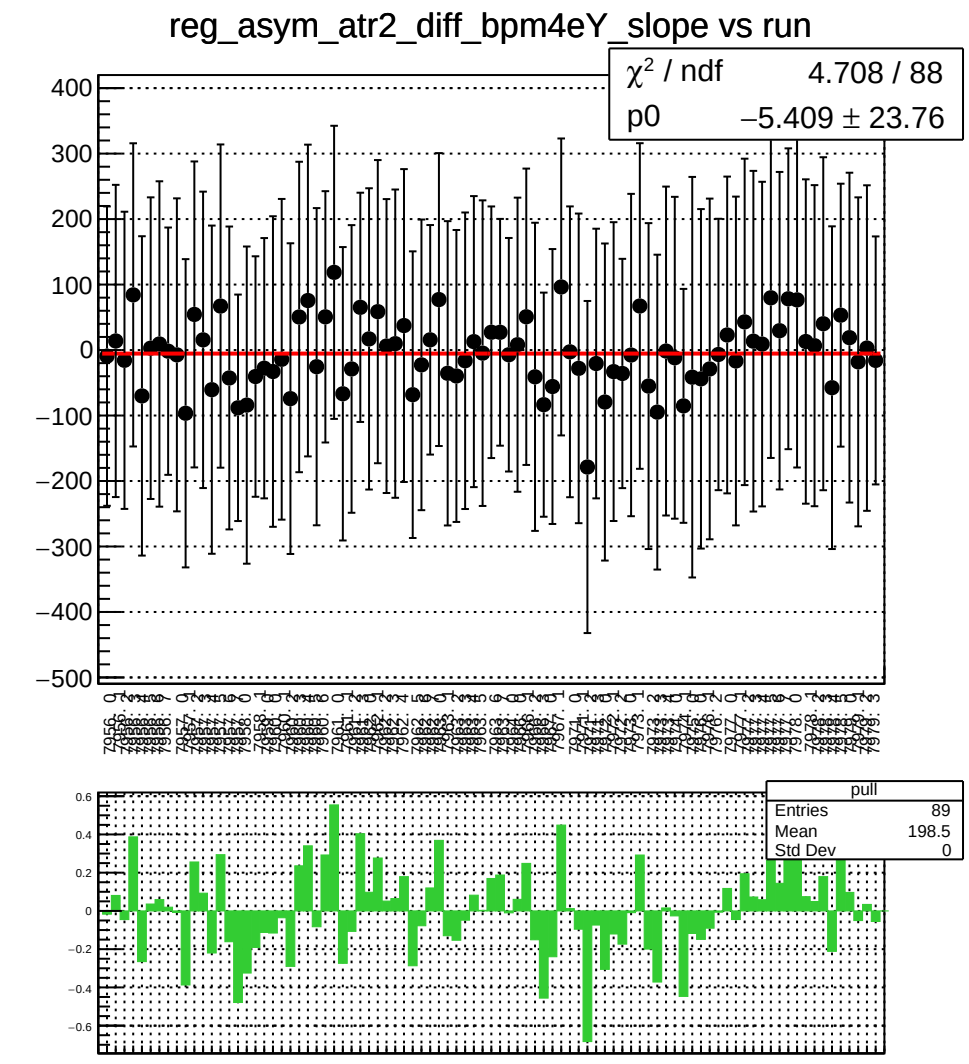

pull1D
Entries 89
Mean 0.02145
Std Dev 0.3245

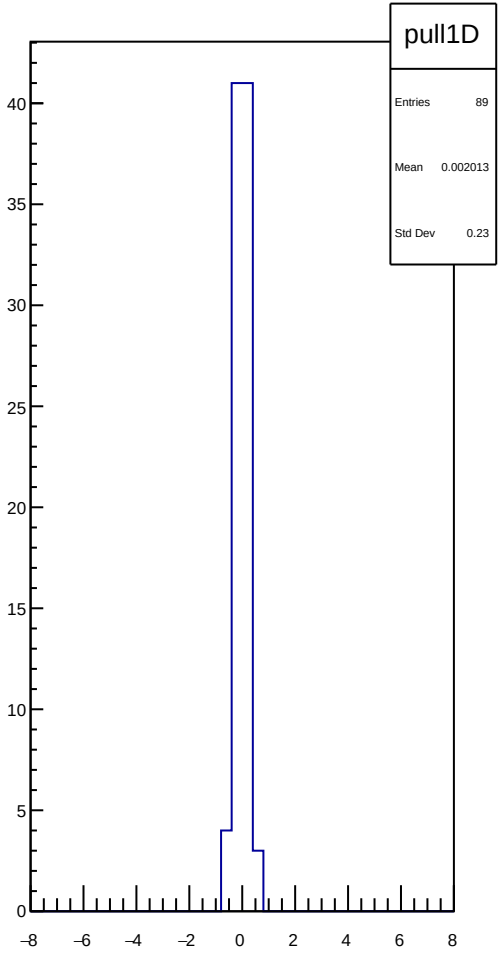

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.98 / 88
p0 106.4 ± 20.75
pull
Entries 89
Mean −36.88
Std Dev 46.32

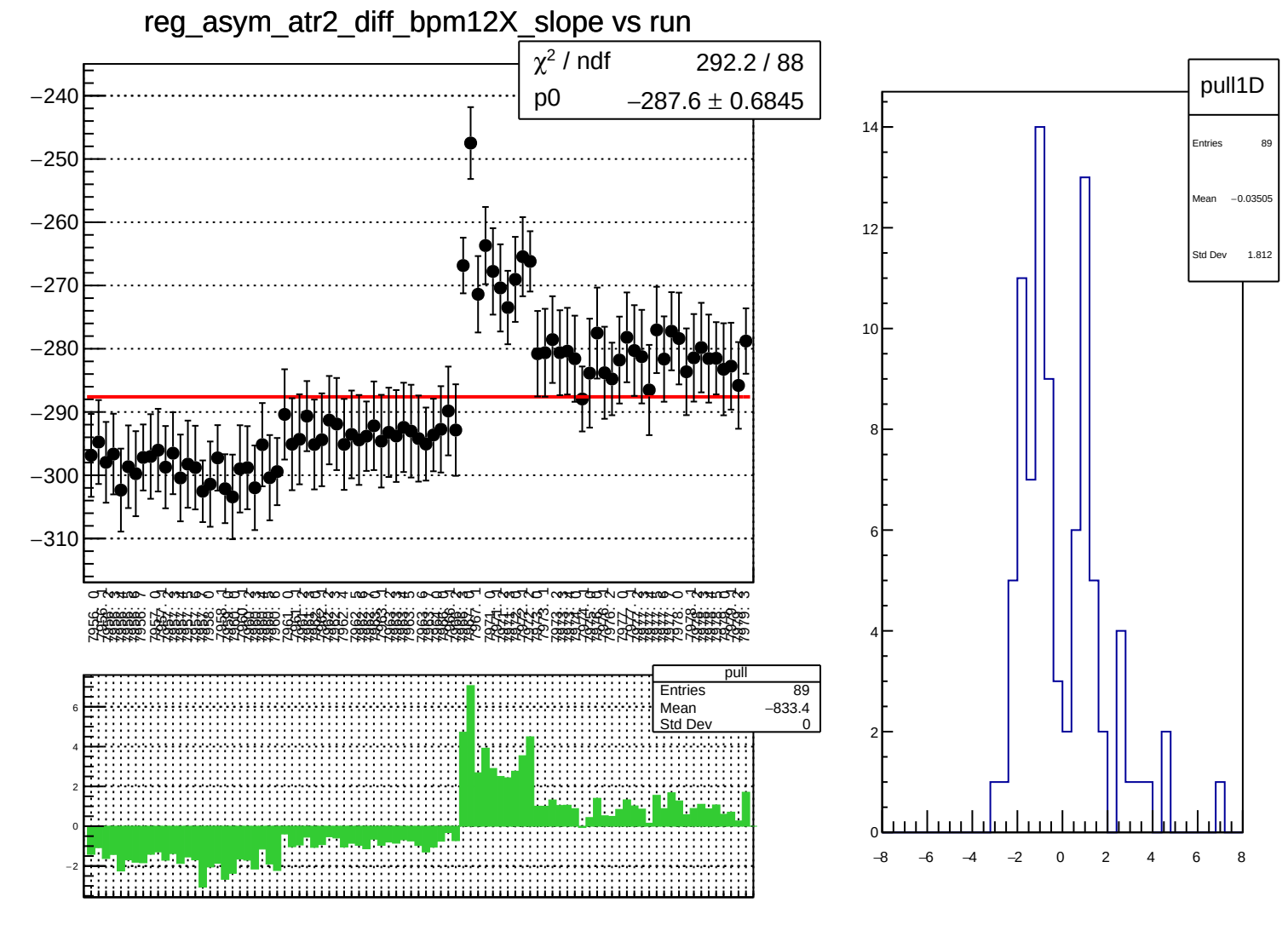

pull1D
Entries 89
Mean −0.0004362
Std Dev 0.2365

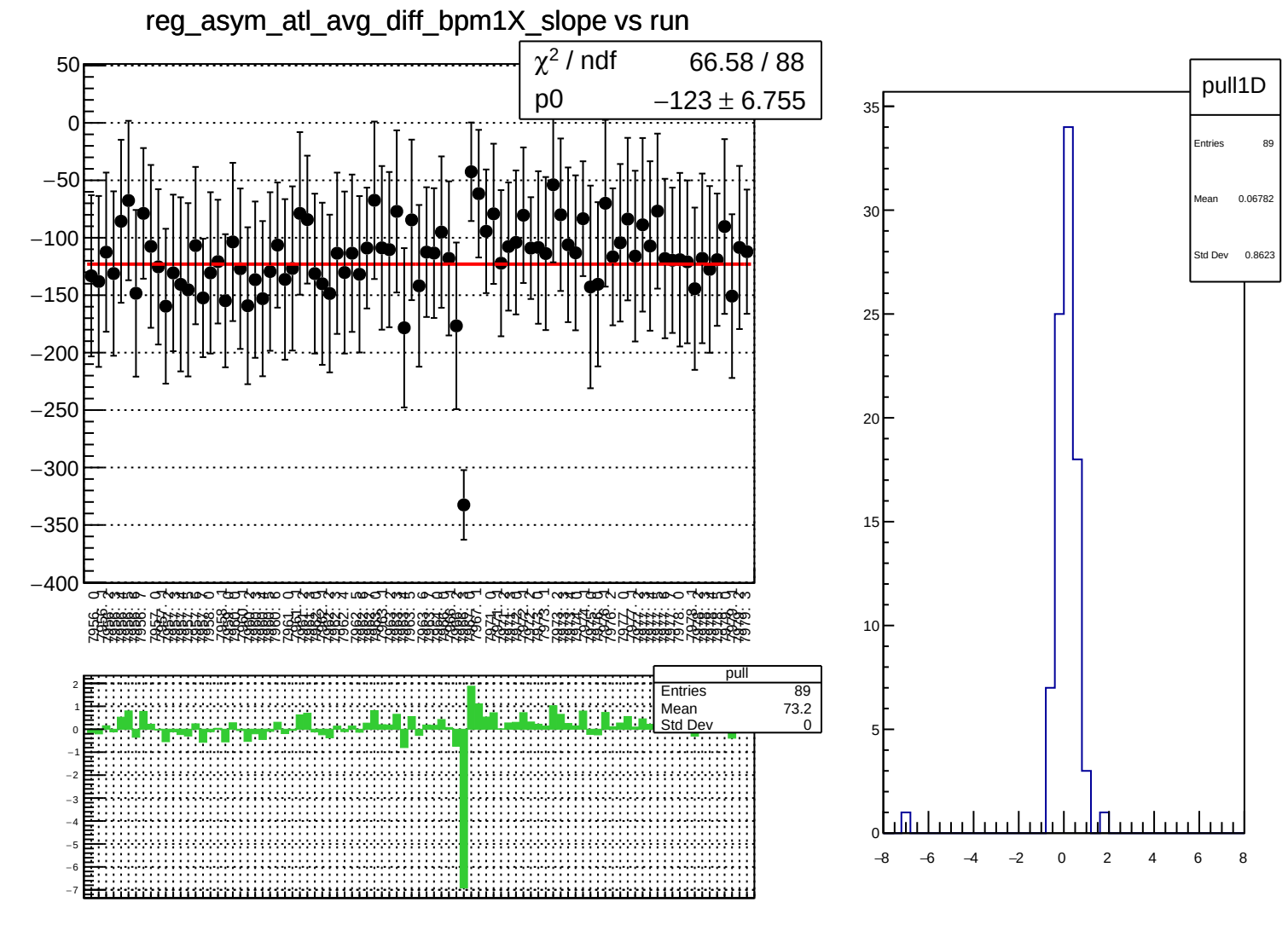

reg_asym_atr2_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 9.312 / 88
p0 320.5 ± 17.68
pull
Entries 89
Mean 126.8
Std Dev 0

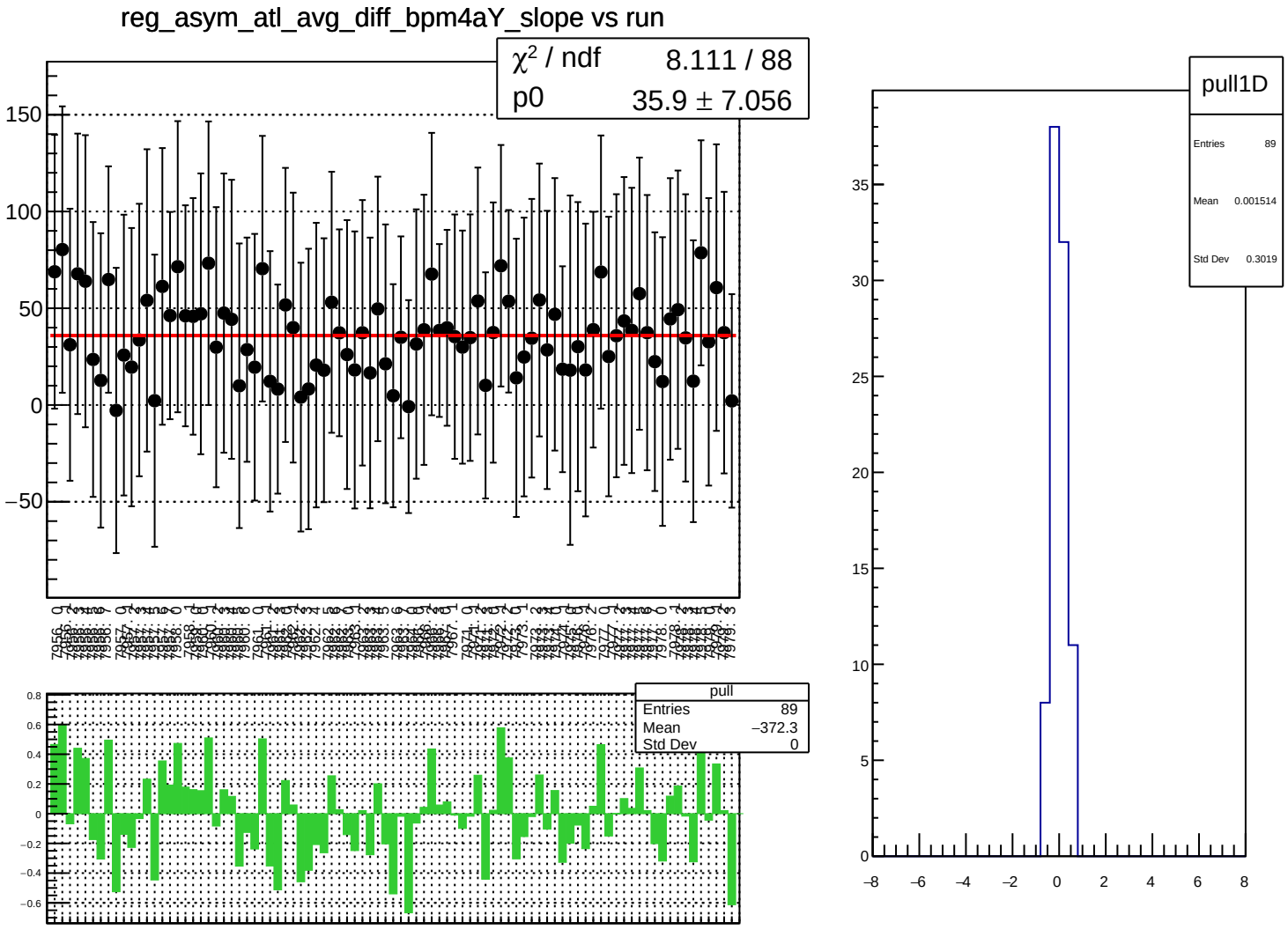

pull1D
Entries 89
Mean −0.01891
Std Dev 0.3229

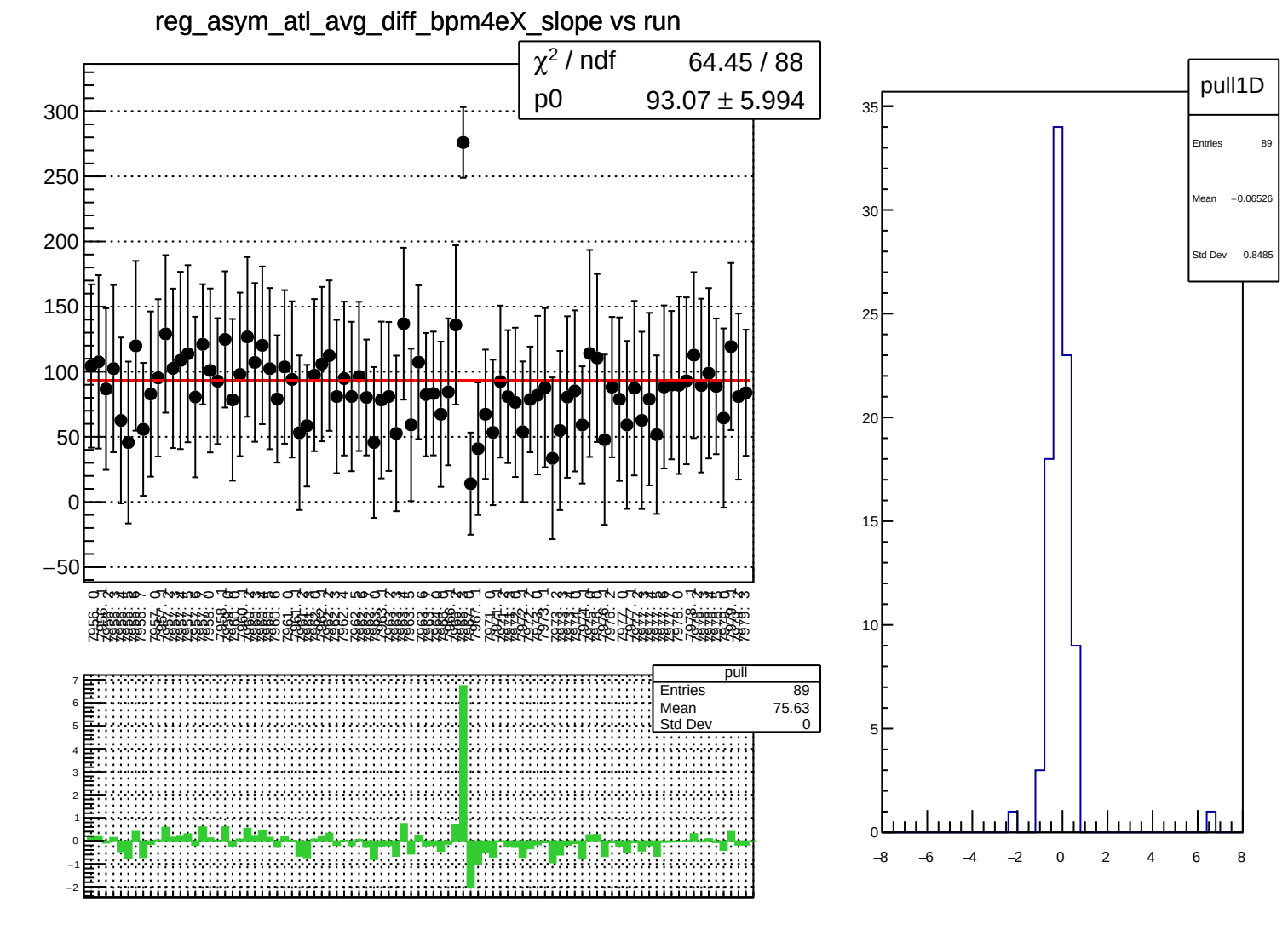

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.708 / 88
p0 −5.409 ± 23.76
pull
Entries 89
Mean 198.5
Std Dev 0

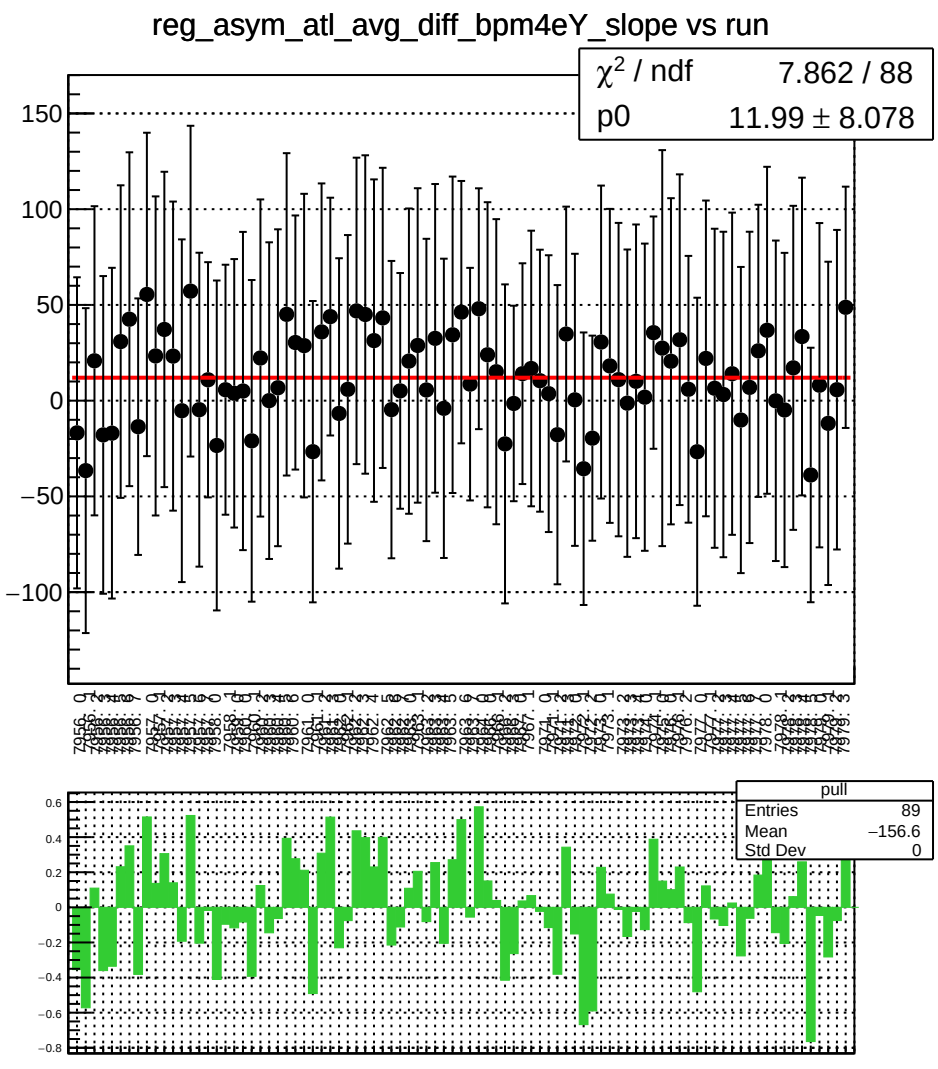

pull1D
Entries 89
Mean 0.002013
Std Dev 0.23

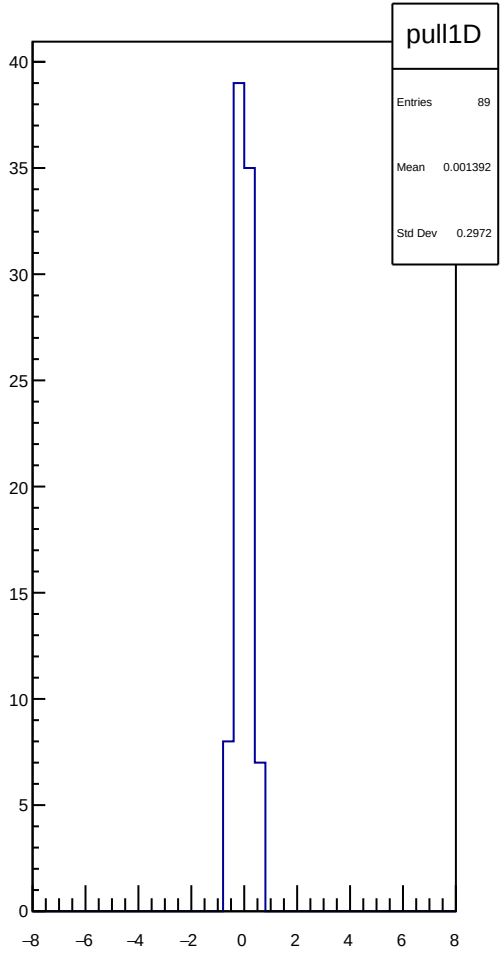

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 292.2 / 88
p0 −287.6 ± 0.6845
−240
−250
−260
−270
−280
−290
−300
−310
pull
Entries 89
Mean −833.4
Std Dev 0
6
4
2
0
−2
pull1D
Entries 89
Mean −0.03505
Std Dev 1.812
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

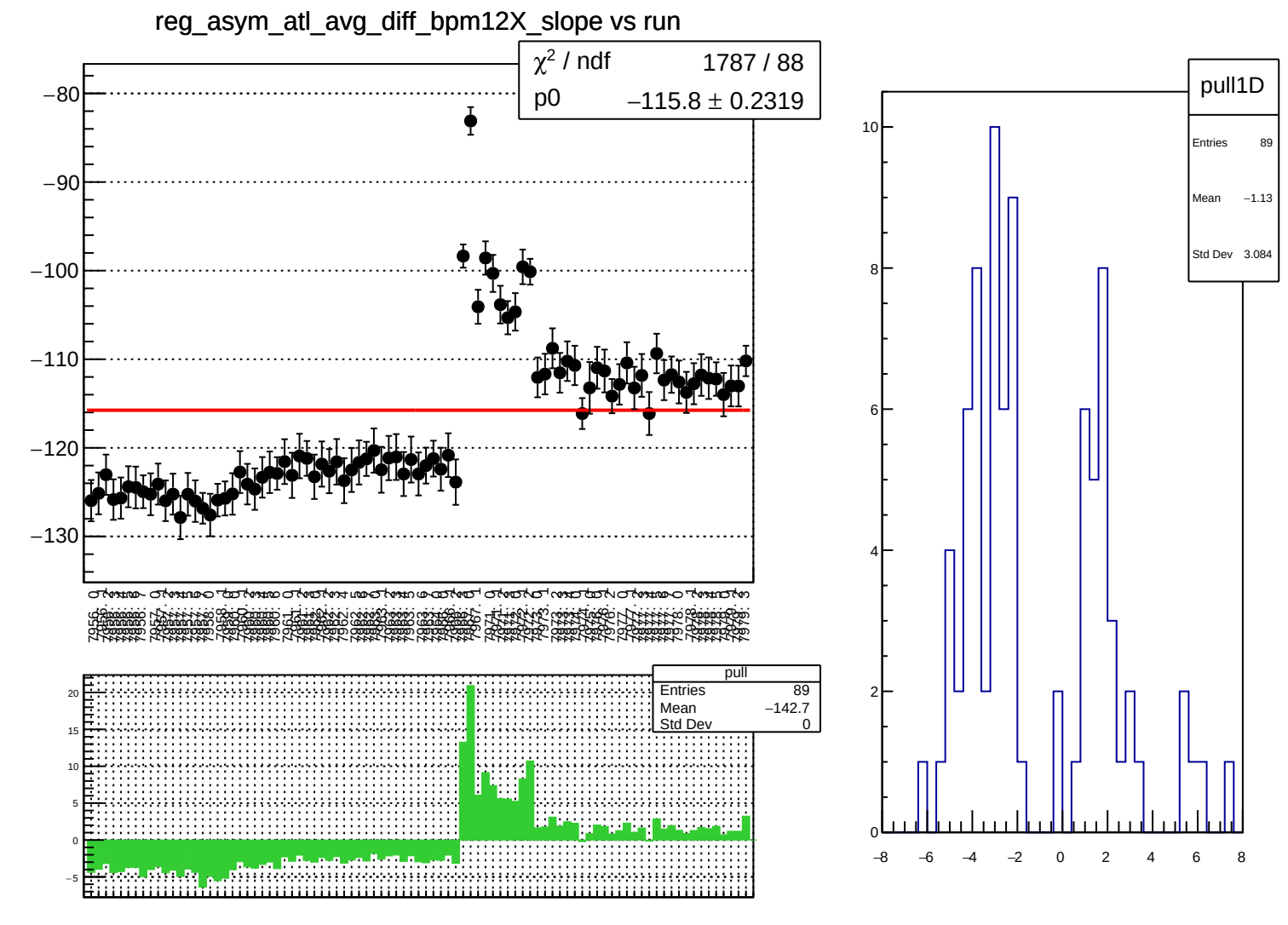

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 66.58 / 88
p0 −123 ± 6.755
pull
Entries 89
Mean 73.2
Std Dev 0
pull1D
Entries 89
Mean 0.06782
Std Dev 0.8623

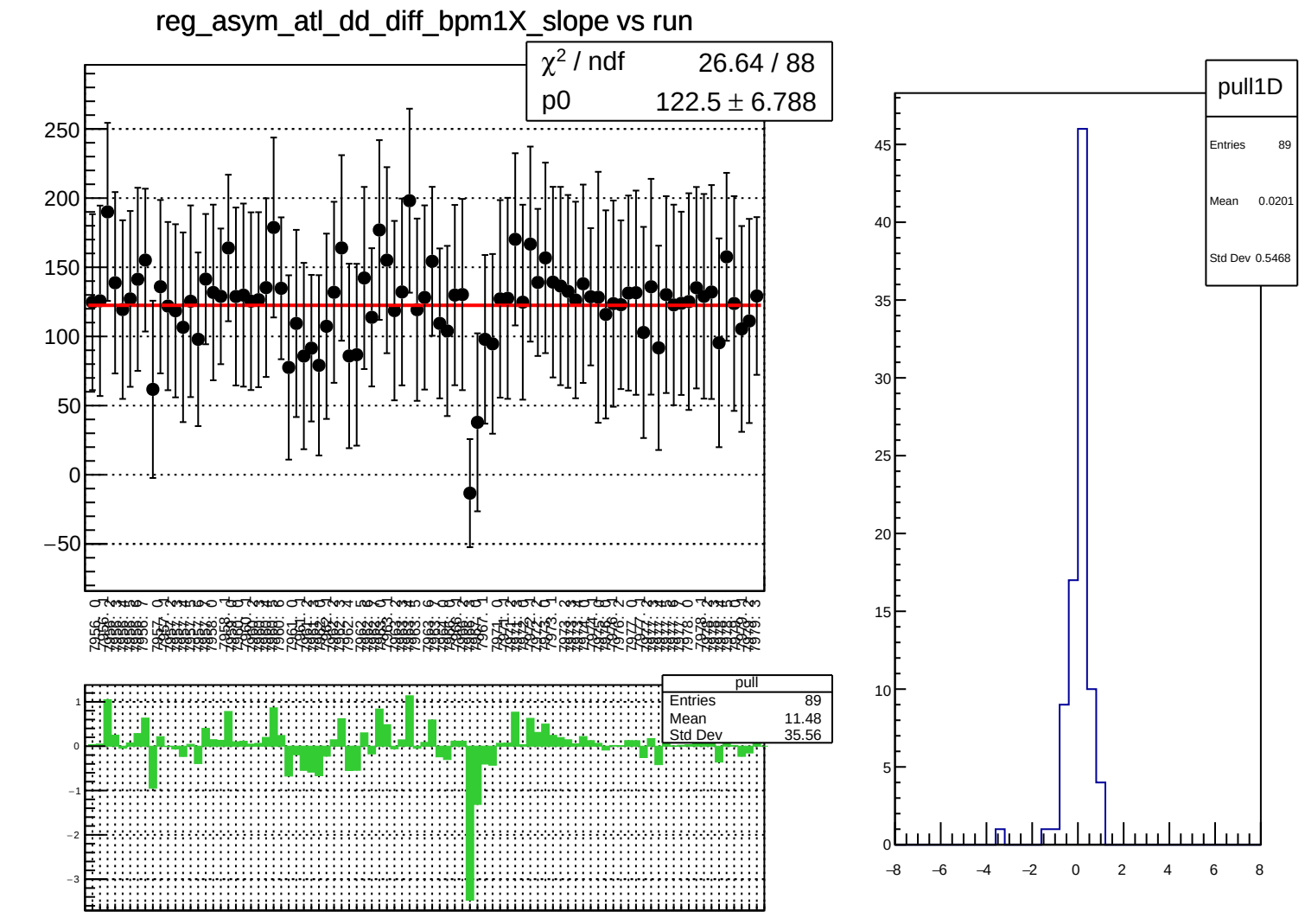

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.111 / 88
p0 35.9 ± 7.056
150
100
50
0
−50
pull
Entries 89
Mean −372.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean 0.001514
Std Dev 0.3019
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

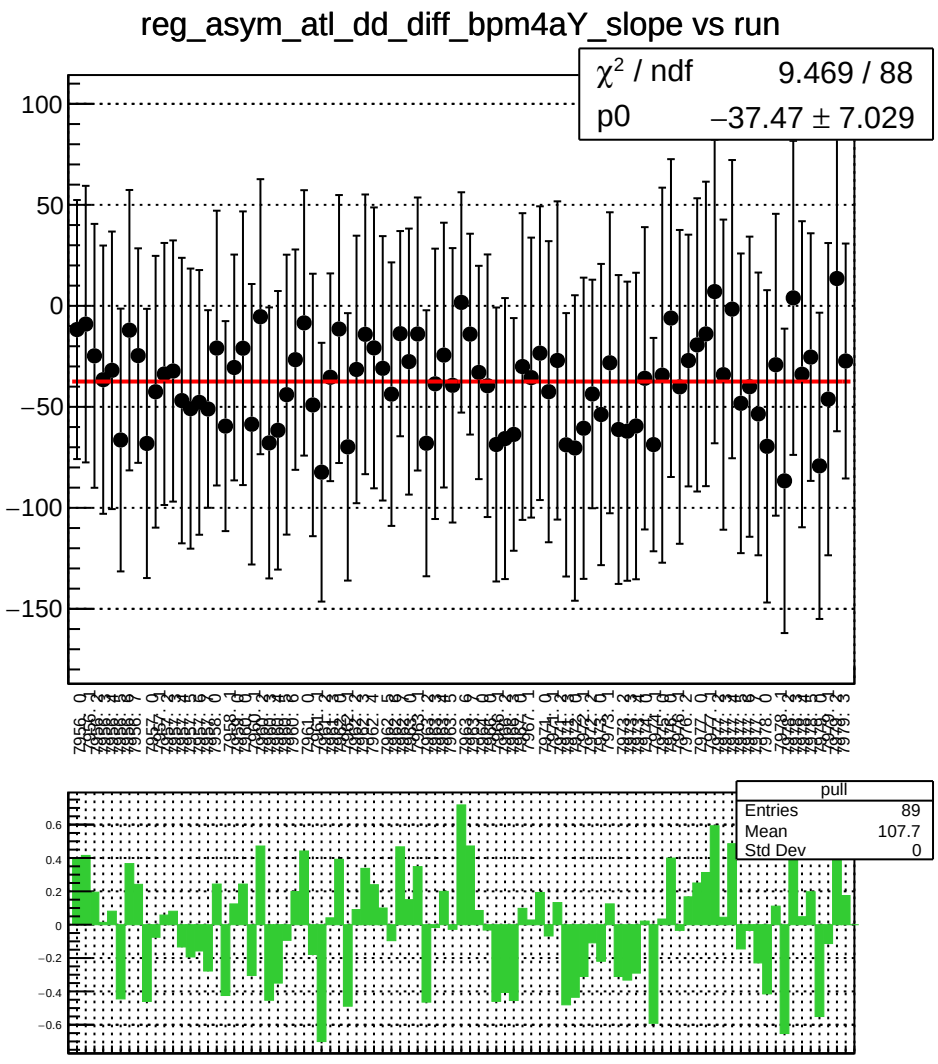

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.45 / 88
p0 93.07 ± 5.994
pull
Entries 89
Mean 75.63
Std Dev 0
pull1D
Entries 89
Mean −0.06526
Std Dev 0.8485

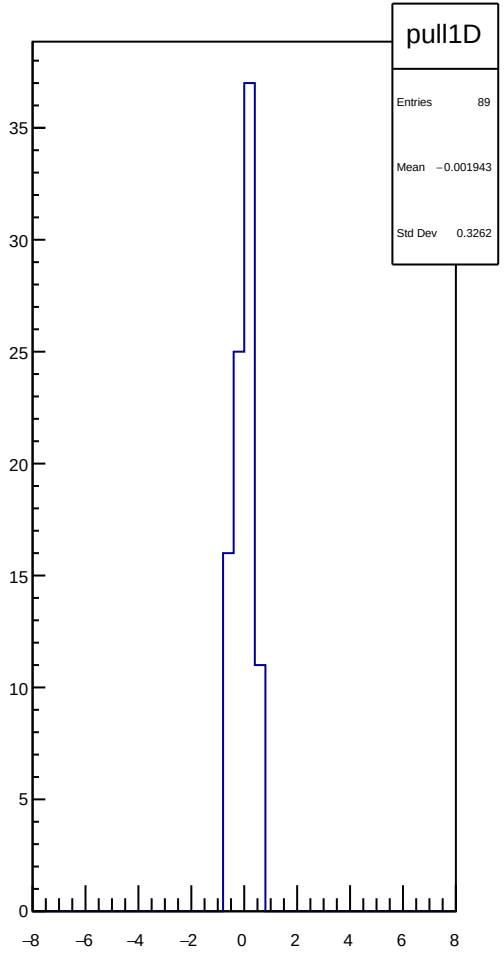

reg_asym_atl_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 7.862 / 88
p0 11.99 ± 8.078
150
100
50
0
−50
−100
pull
Entries 89
Mean −156.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

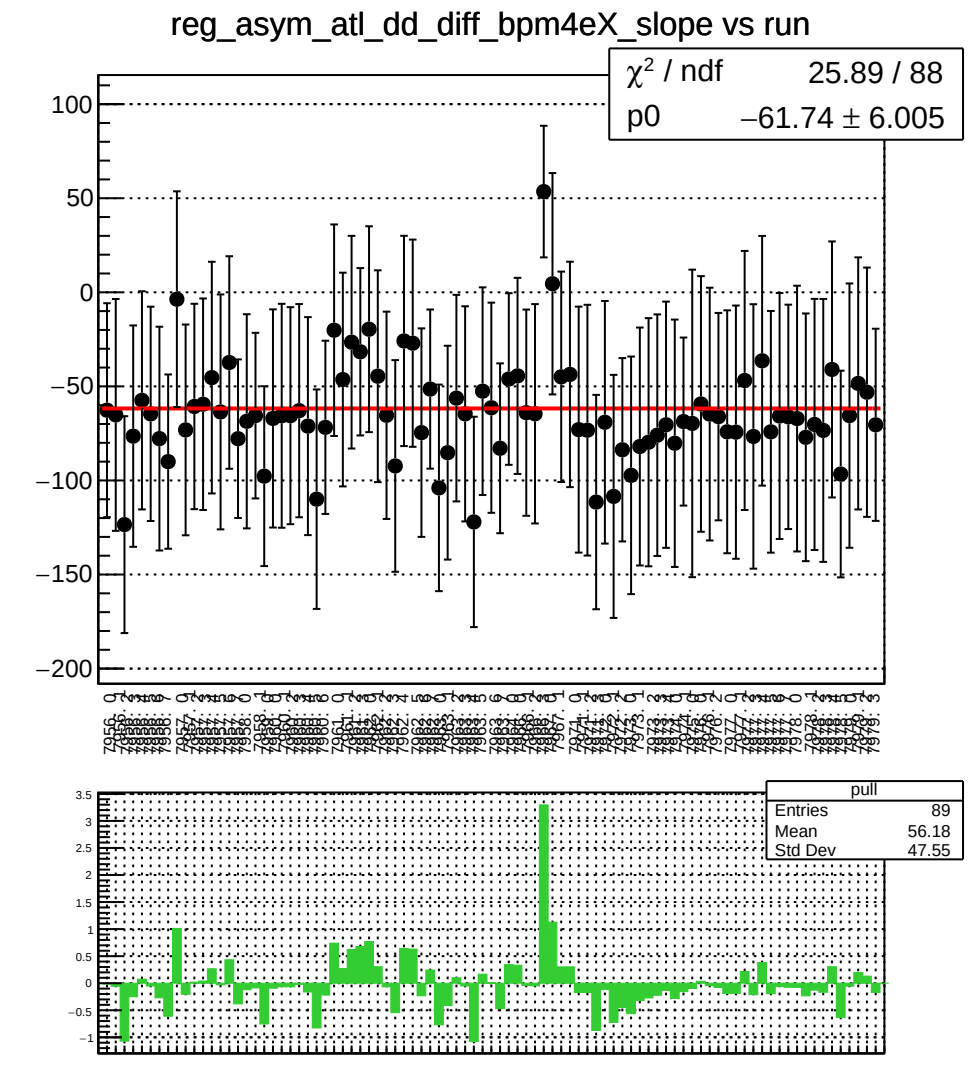

pull1D
Entries 89
Mean 0.001392
Std Dev 0.2972
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

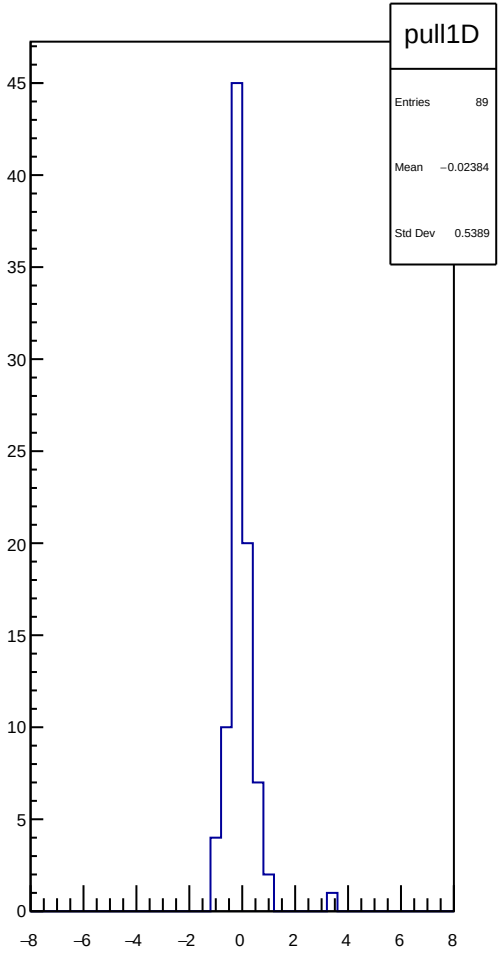

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 1787 / 88
p0 −115.8 ± 0.2319
−80
−90
−100
−110
−120
−130
pull
Entries 89
Mean −142.7
Std Dev 0
20
15
10
5
0
−5
pull1D
Entries 89
Mean −1.13
Std Dev 3.084
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

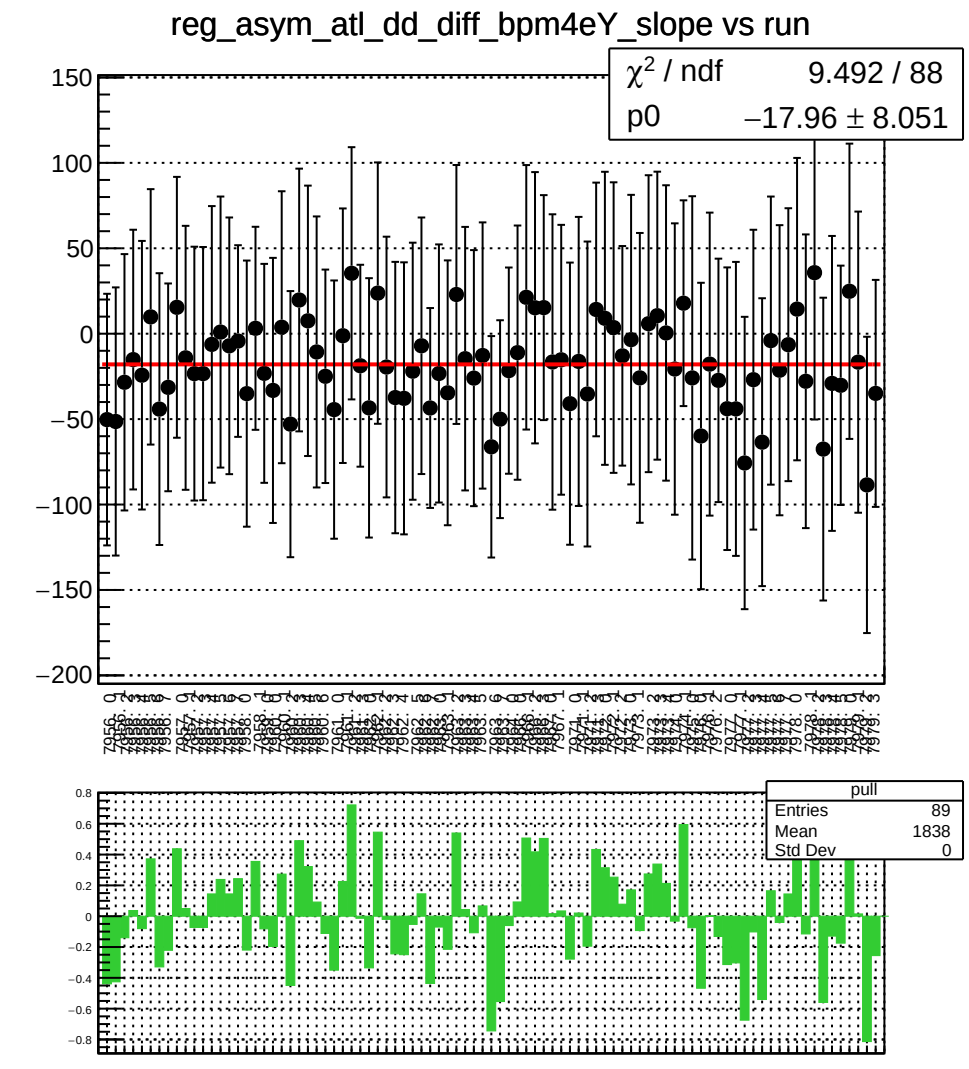

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 26.64 / 88
p0 122.5 ± 6.788
250
200
150
100
50
0
−50
pull
Entries 89
Mean 11.48
Std Dev 35.56
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.0201
Std Dev 0.5468
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

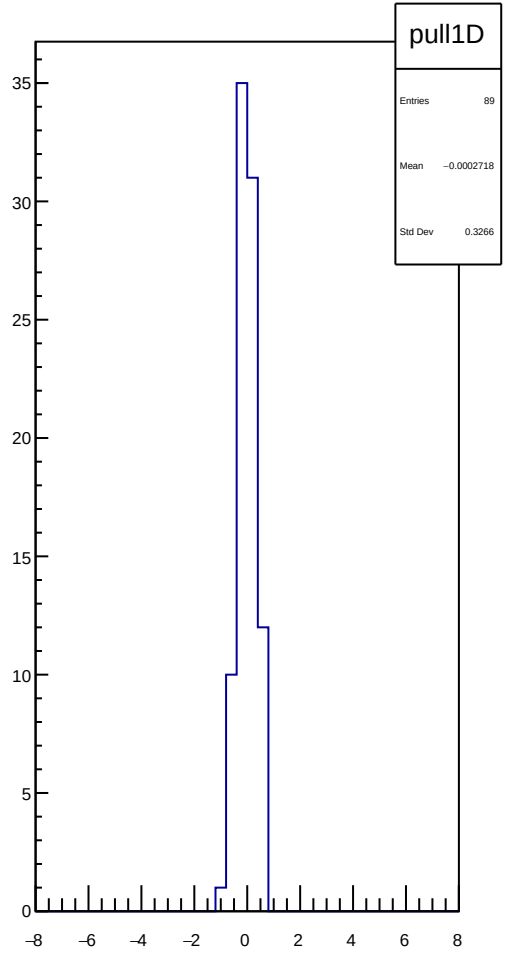

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.469 / 88
p0 −37.47 ± 7.029
100
50
0
−50
−100
−150
pull
Entries 89
Mean 107.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

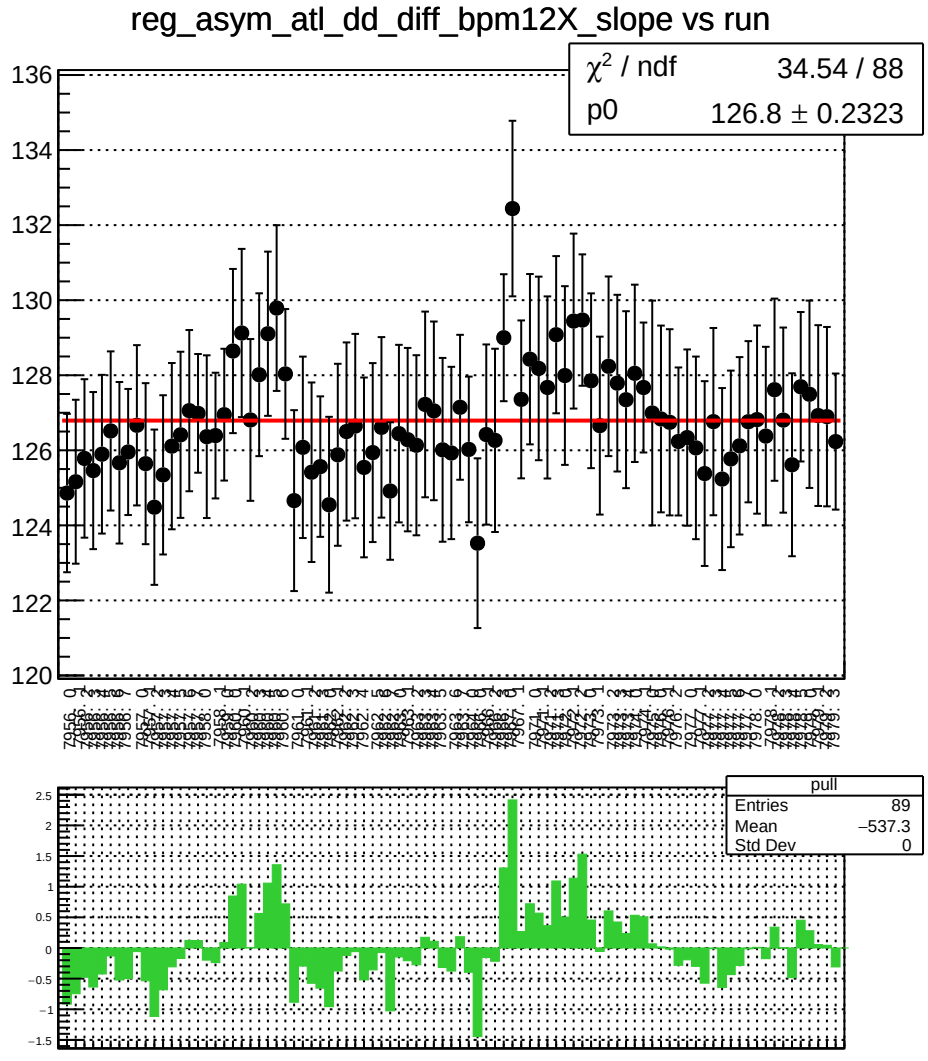

pull1D
Entries 89
Mean −0.001943
Std Dev 0.3262
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

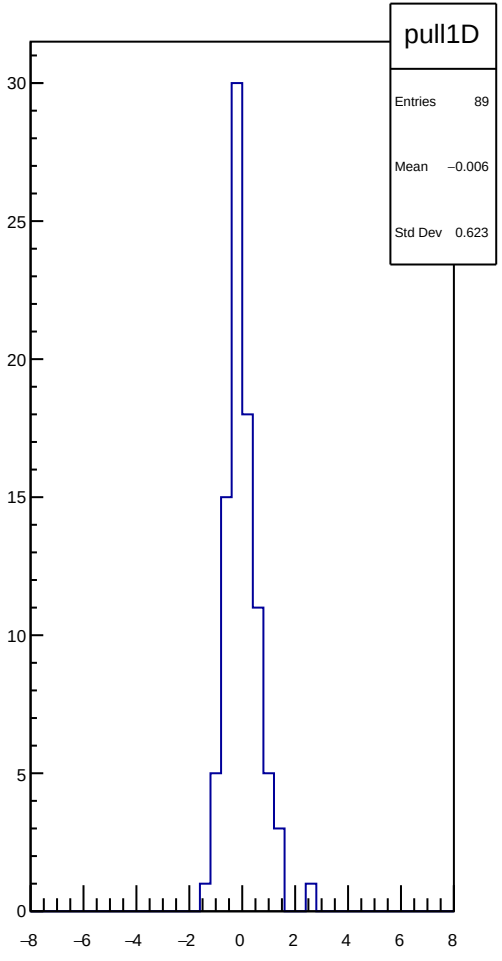

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.89 / 88
p0 −61.74 ± 6.005
pull
Entries 89
Mean 56.18
Std Dev 47.55

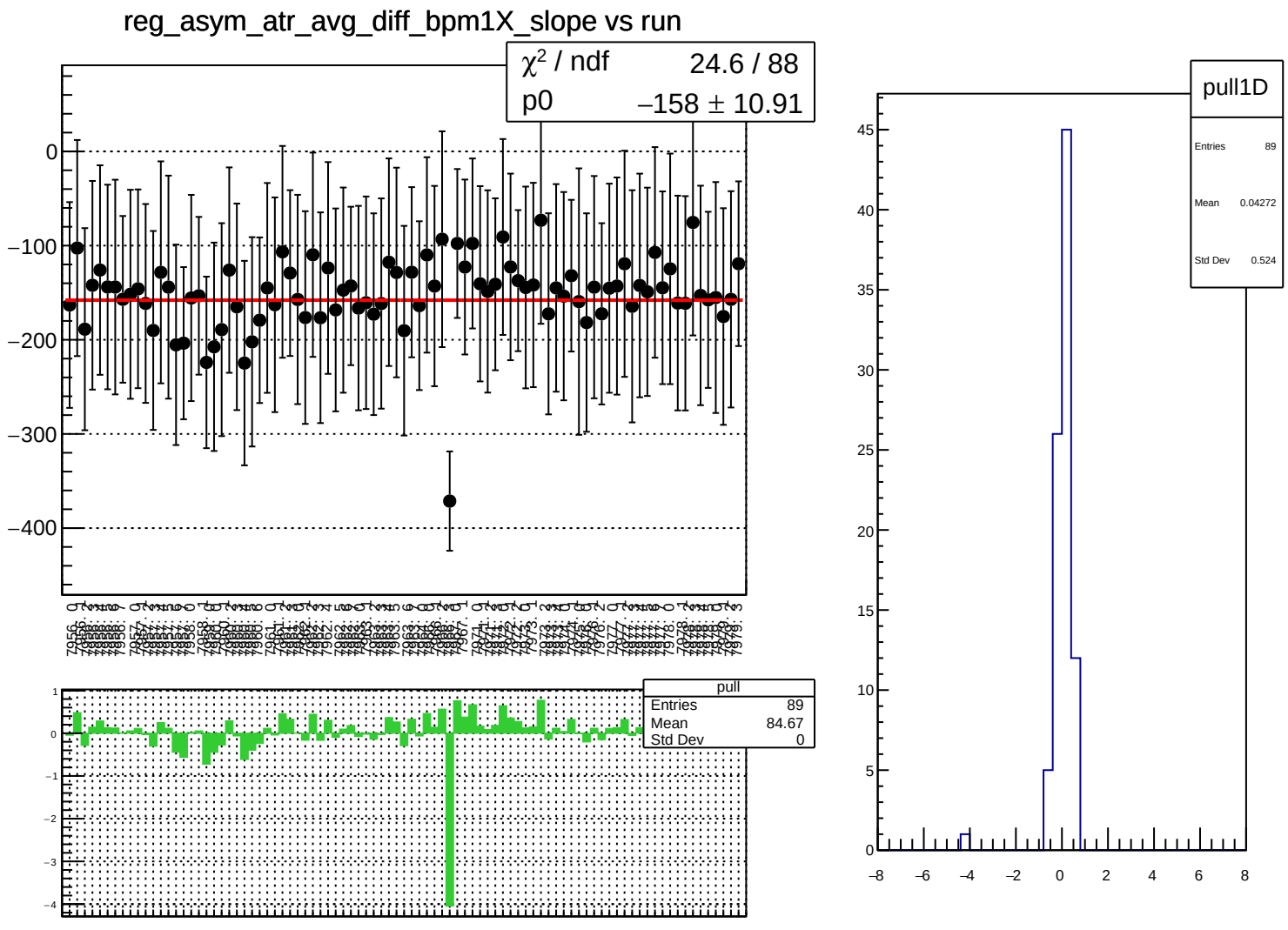

pull1D
Entries 89
Mean −0.02384
Std Dev 0.5389

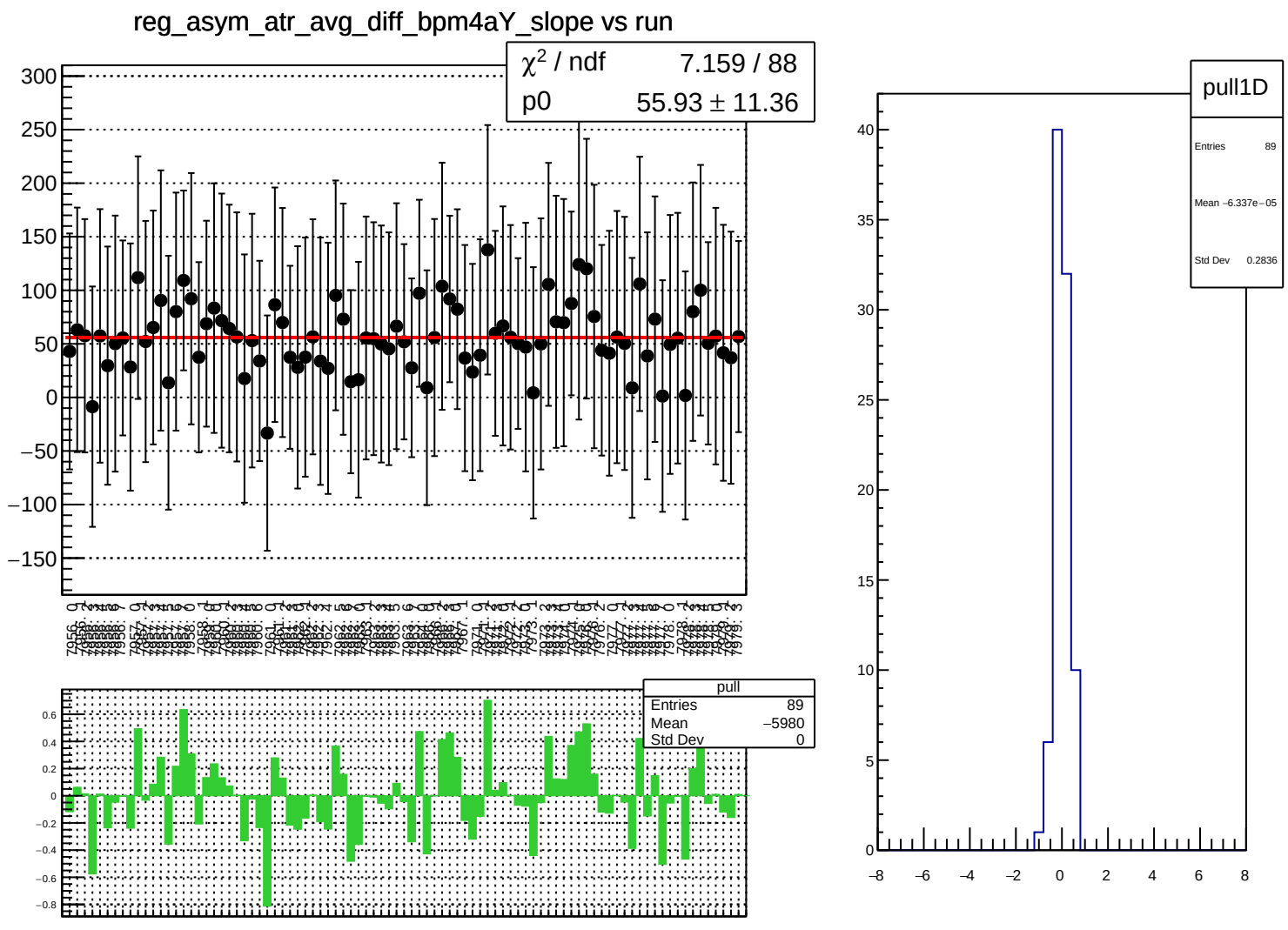

reg_asym_atl_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 9.492 / 88
p0 −17.96 ± 8.051
pull
Entries 89
Mean 1838
Std Dev 0

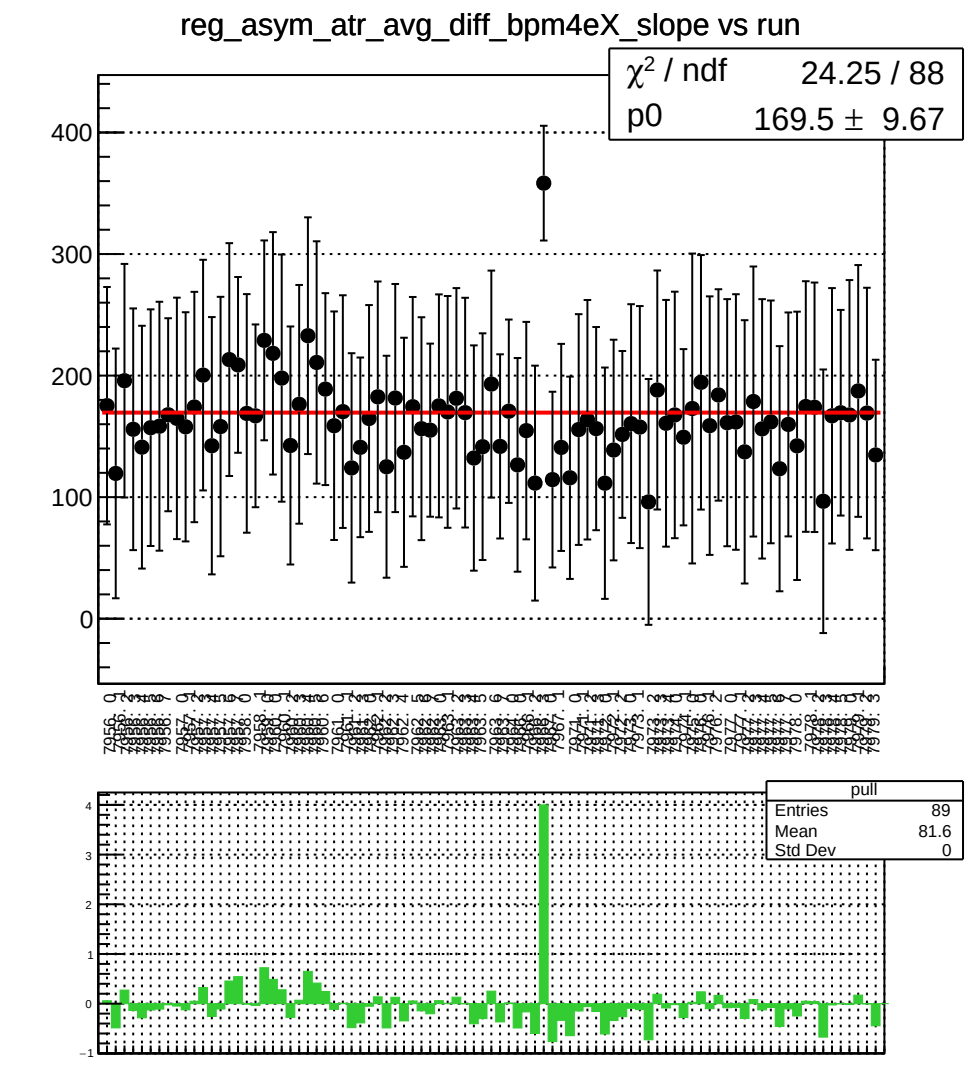

pull1D
Entries 89
Mean −0.0002718
Std Dev 0.3266

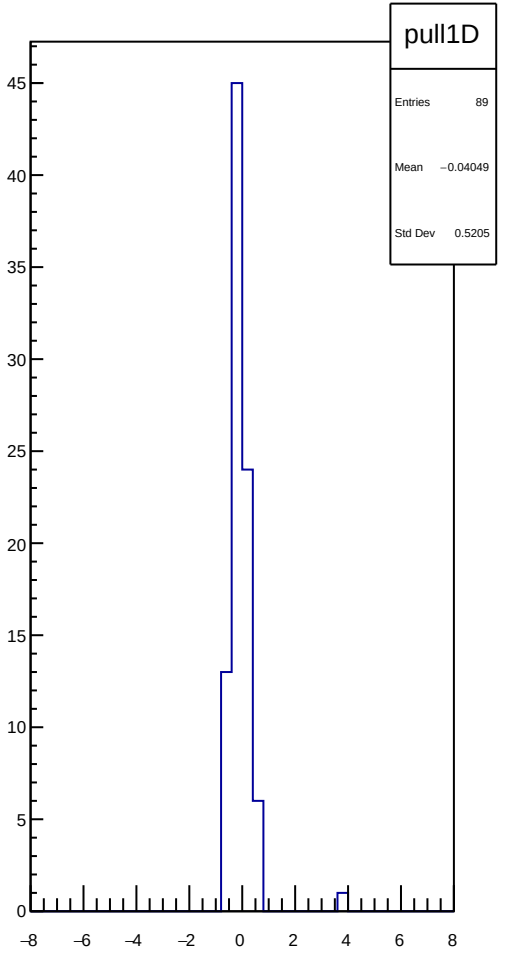

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 34.54 / 88
p0 126.8 ± 0.2323
pull
Entries 89
Mean −537.3
Std Dev 0

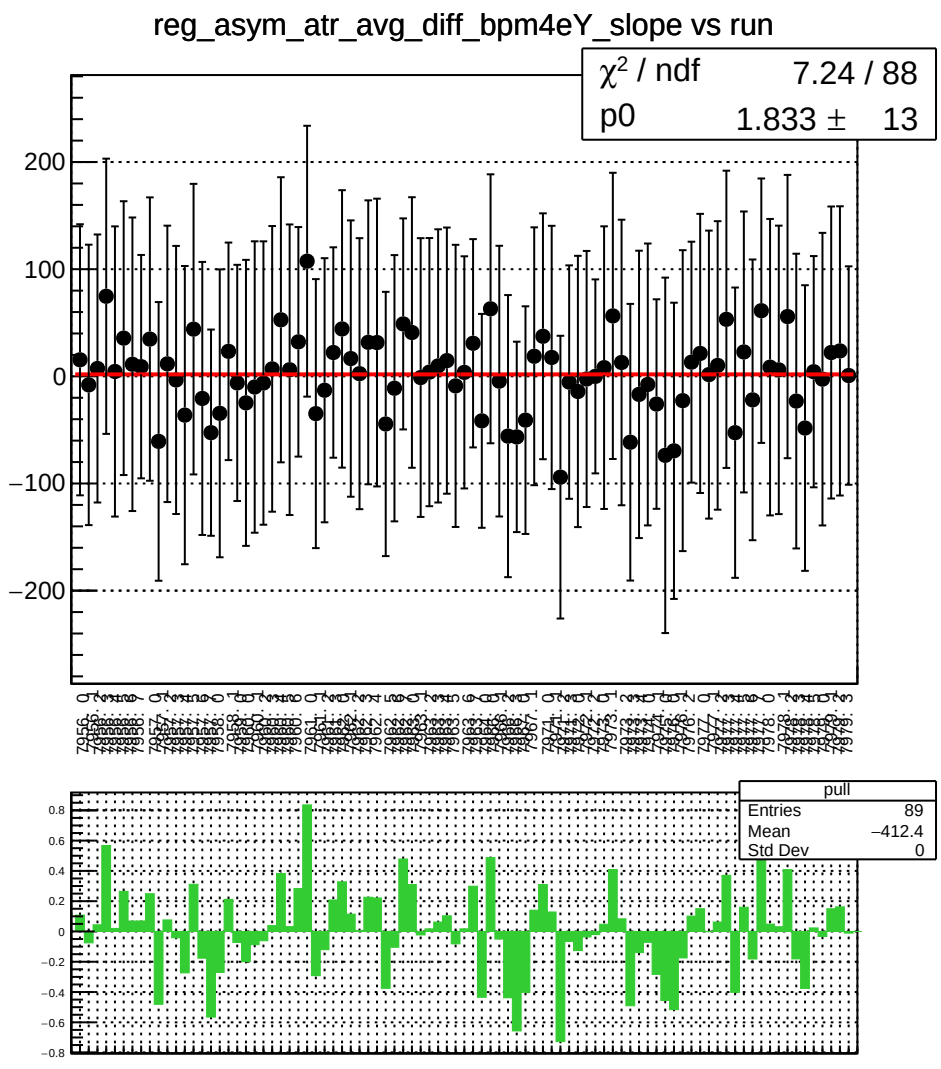

pull1D
Entries 89
Mean −0.006
Std Dev 0.623

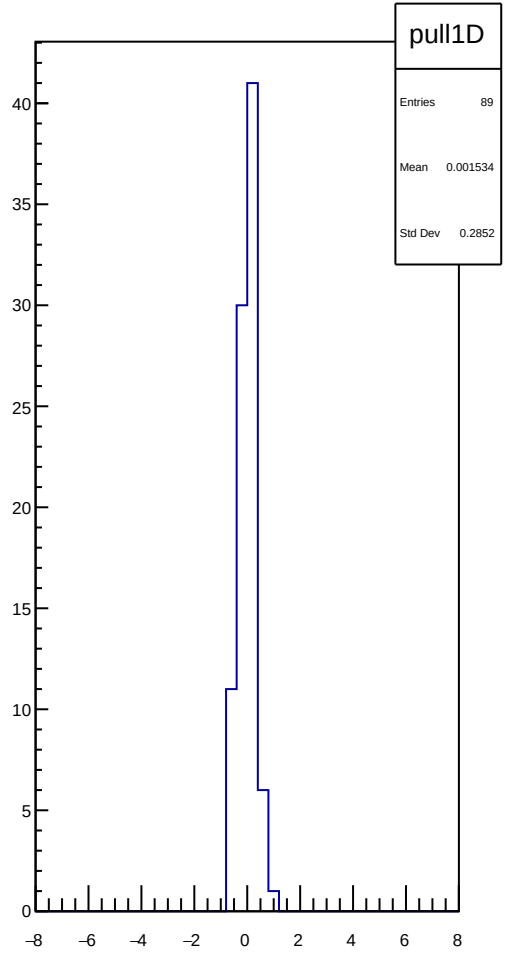

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 24.6 / 88
p0 −158 ± 10.91
0
−100
−200
−300
−400
pull
Entries 89
Mean 84.67
Std Dev 0
pull1D
Entries 89
Mean 0.04272
Std Dev 0.524

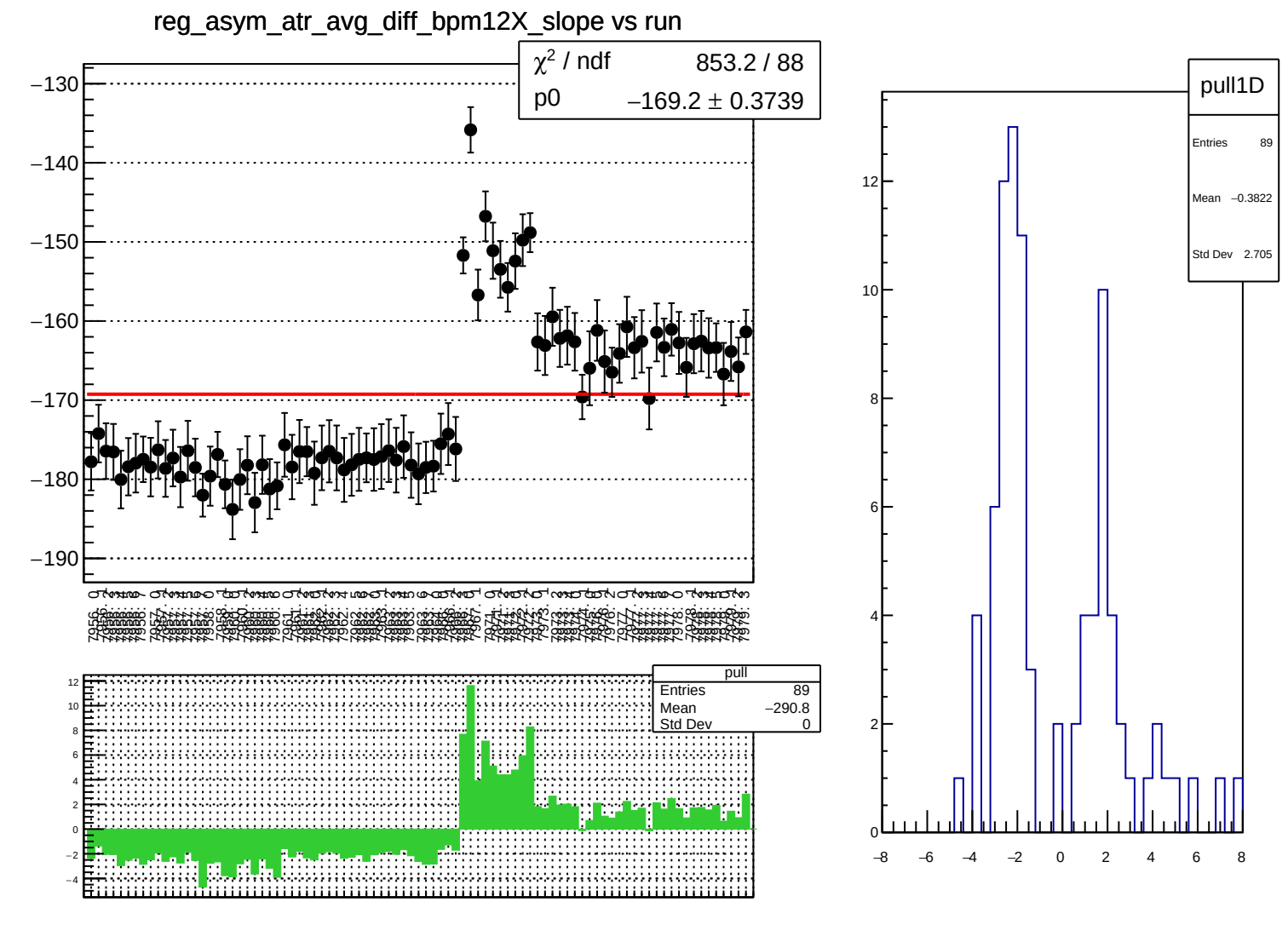

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.159 / 88
p0 55.93 ± 11.36
pull
Entries 89
Mean −5980
Std Dev 0
pull1D
Entries 89
Mean −6.337e−05
Std Dev 0.2836

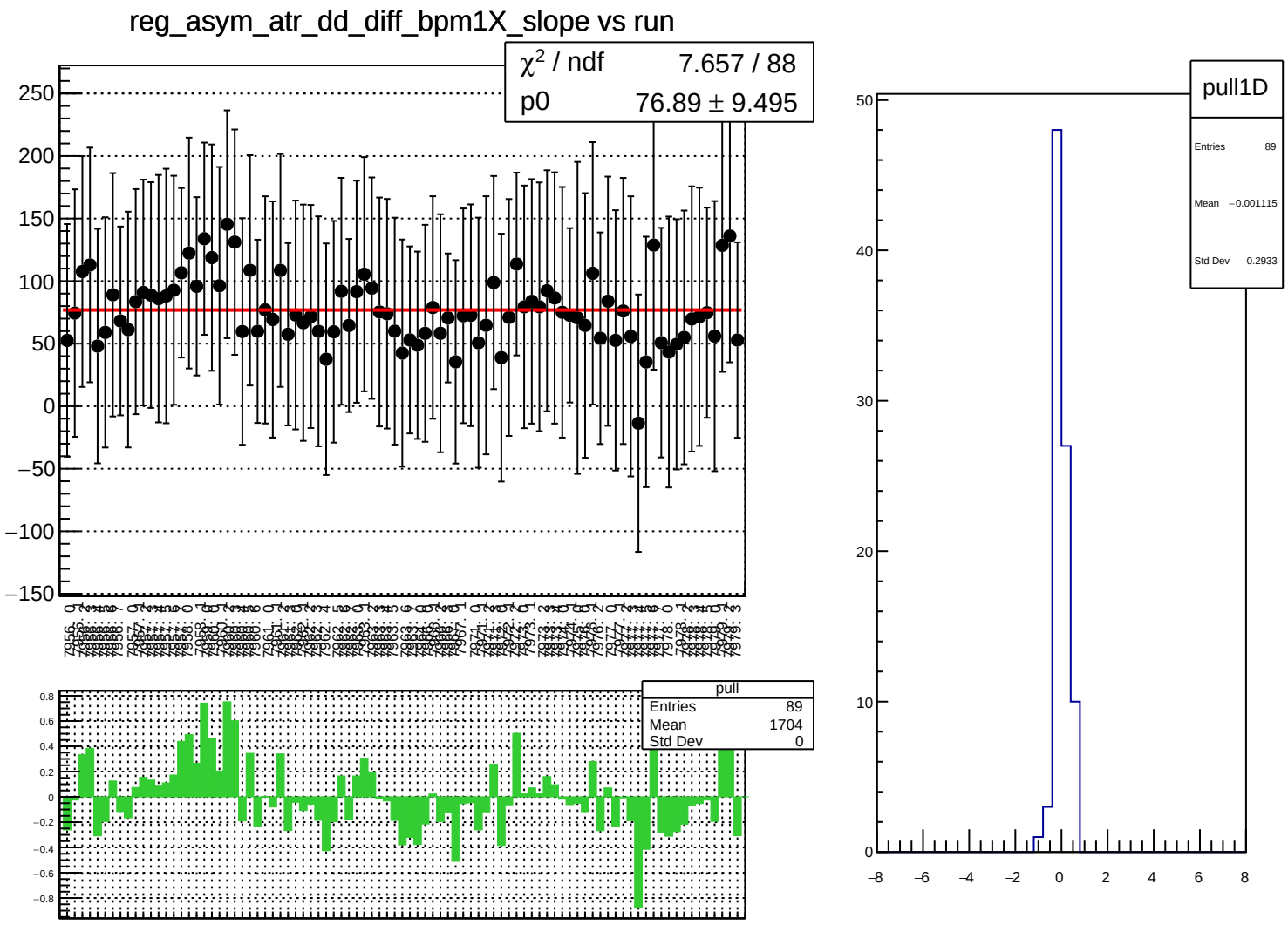

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.25 / 88
p0 169.5 ± 9.67
400
300
200
100
0
pull
Entries 89
Mean 81.6
Std Dev 0
4
3
2
1
0
−1

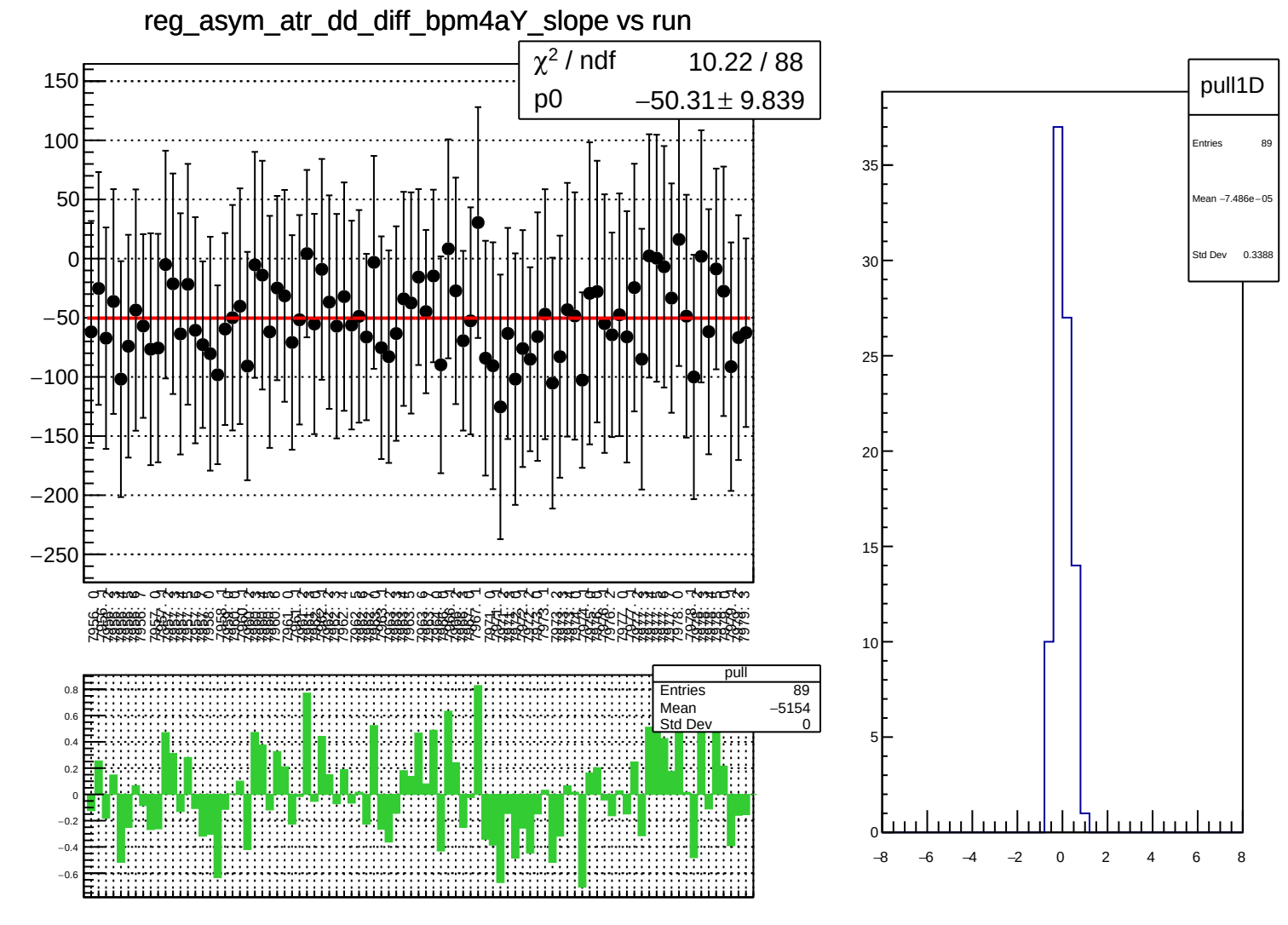

pull1D
Entries 89
Mean −0.04049
Std Dev 0.5205
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

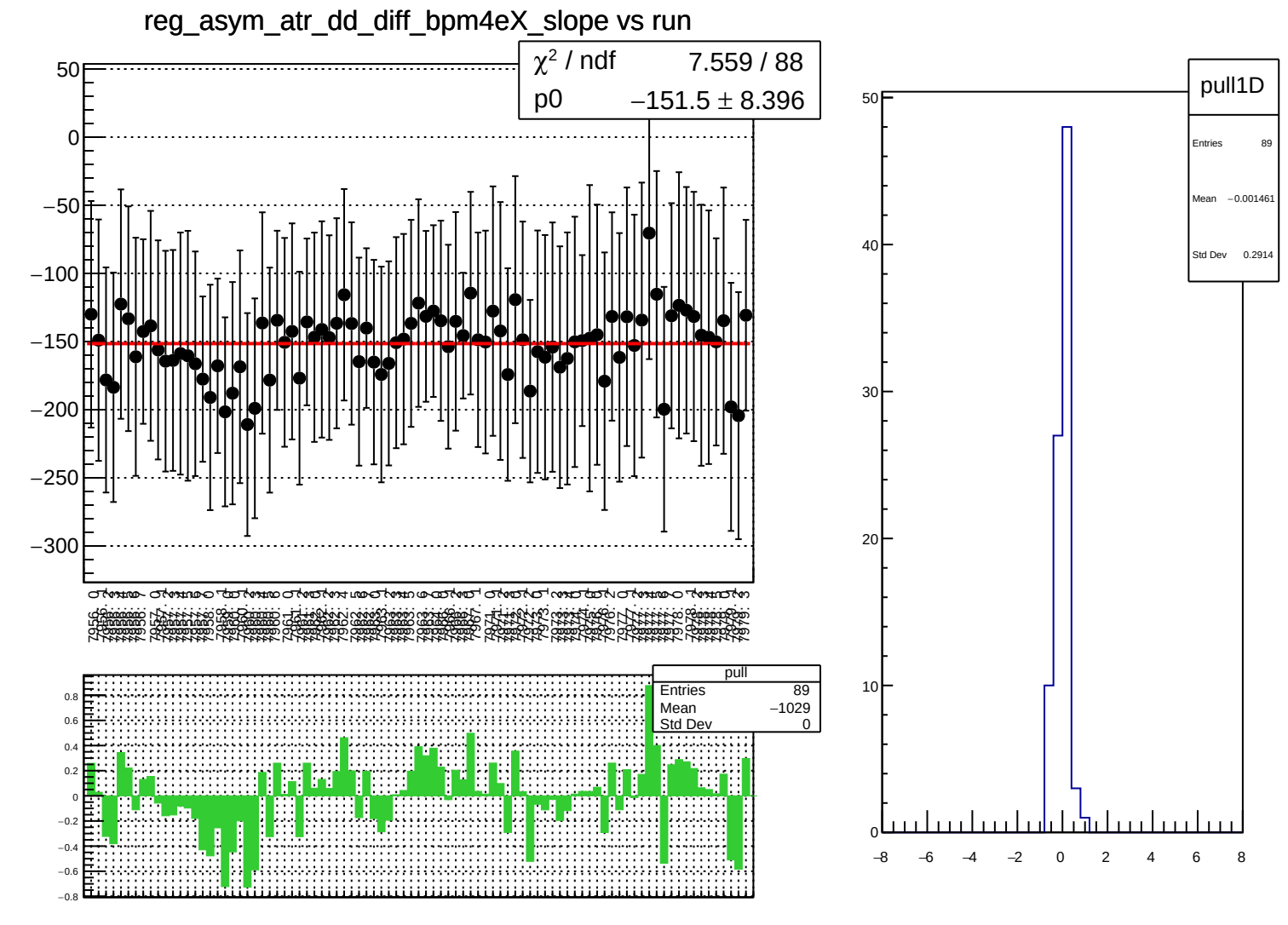

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.24 / 88
p0 1.833 ± 13
200
100
0
−100
−200
pull
Entries 89
Mean −412.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

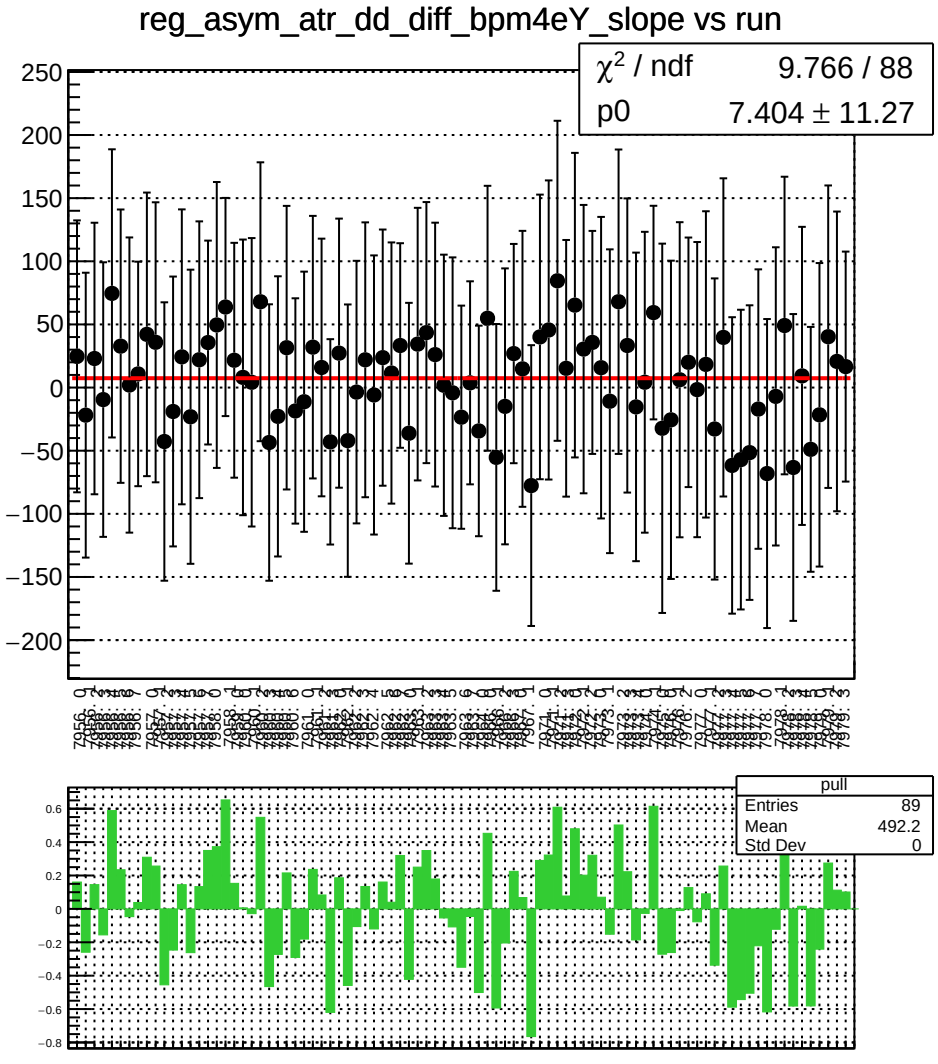

pull1D
Entries 89
Mean 0.001534
Std Dev 0.2852
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

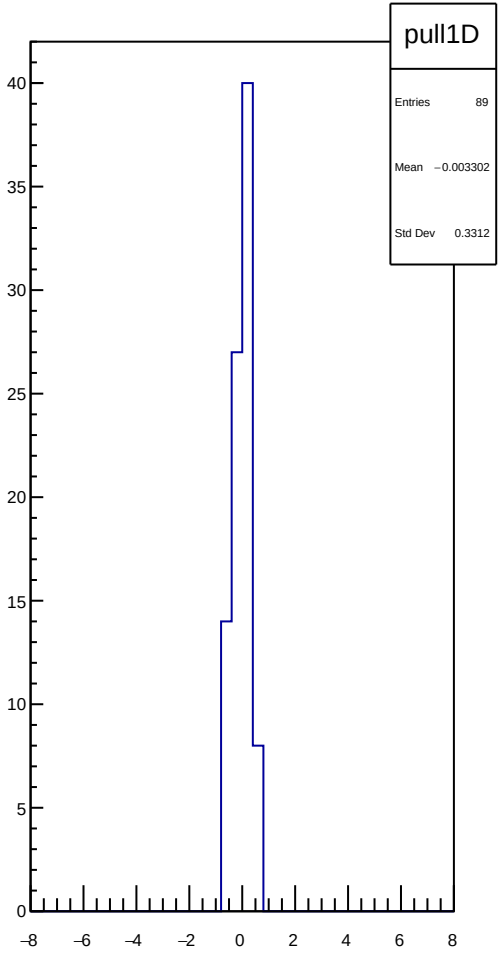

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 853.2 / 88
p0 −169.2 ± 0.3739
pull
Entries 89
Mean −290.8
Std Dev 0
pull1D
Entries 89
Mean −0.3822
Std Dev 2.705

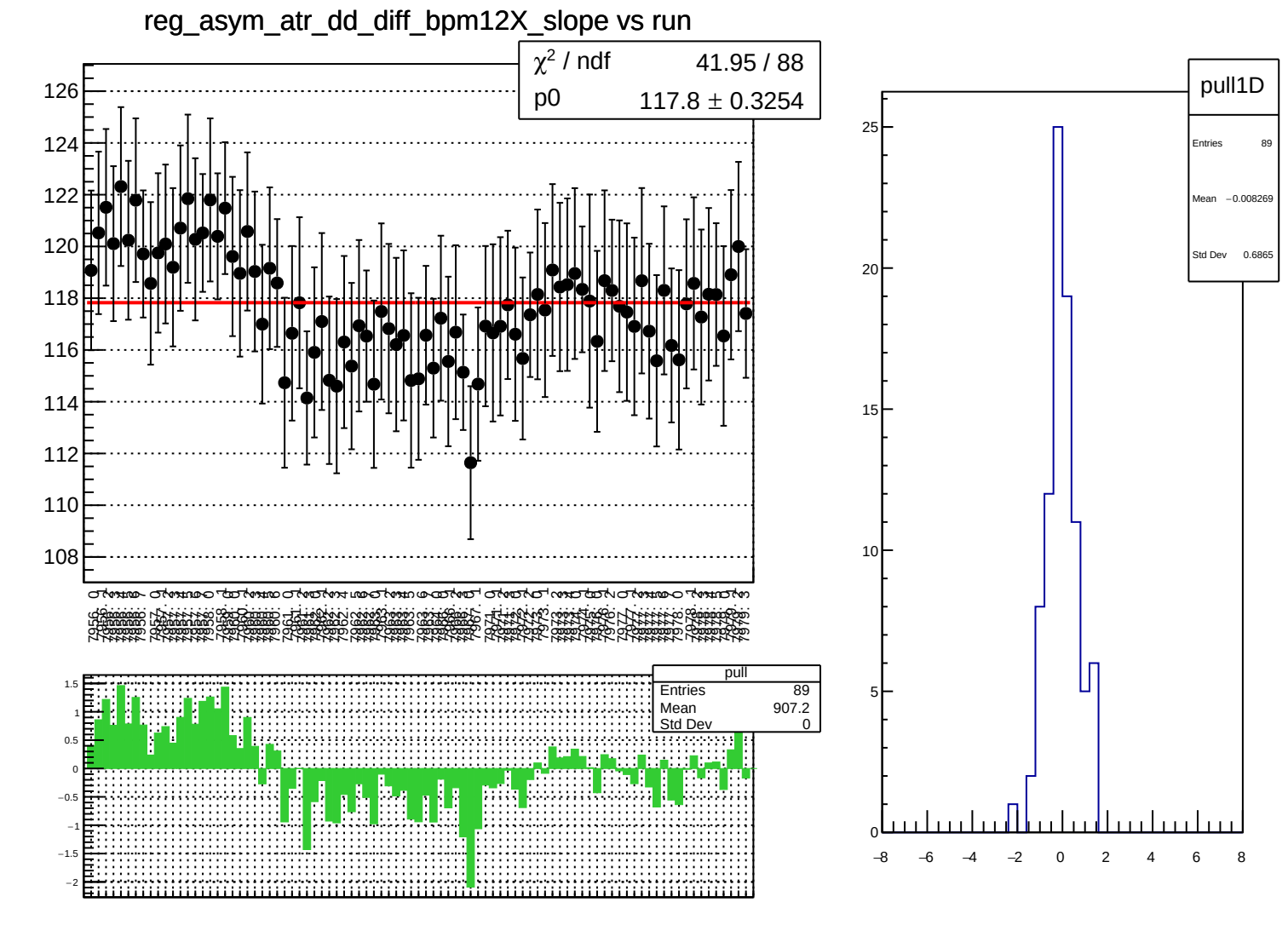

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 7.657 / 88
p0 76.89 ± 9.495
pull
Entries 89
Mean 1704
Std Dev 0
pull1D
Entries 89
Mean −0.001115
Std Dev 0.2933

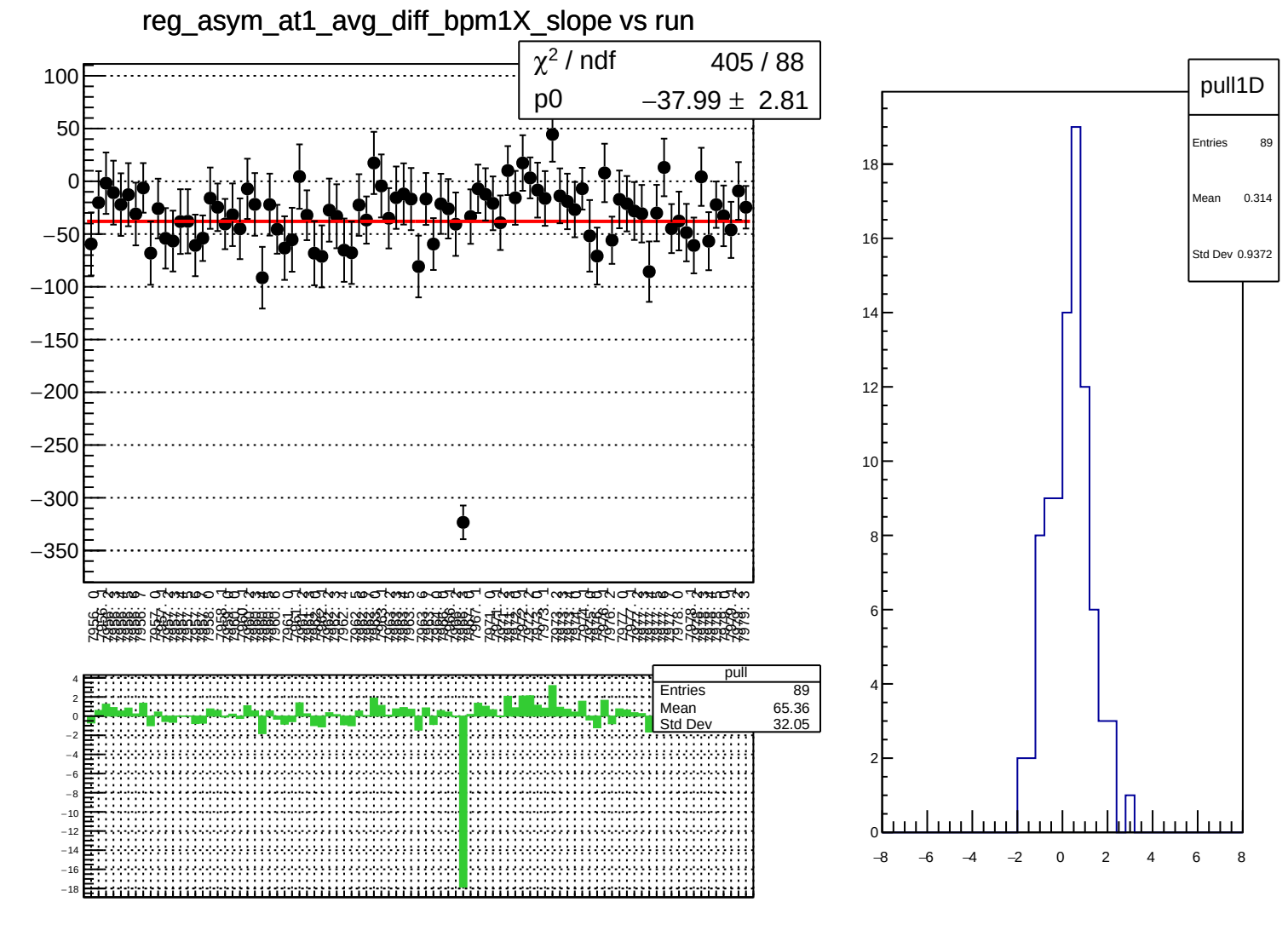

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.22 / 88
p0 −50.31 ± 9.839
pull
Entries 89
Mean −5154
Std Dev 0
pull1D
Entries 89
Mean −7.486e−05
Std Dev 0.3388

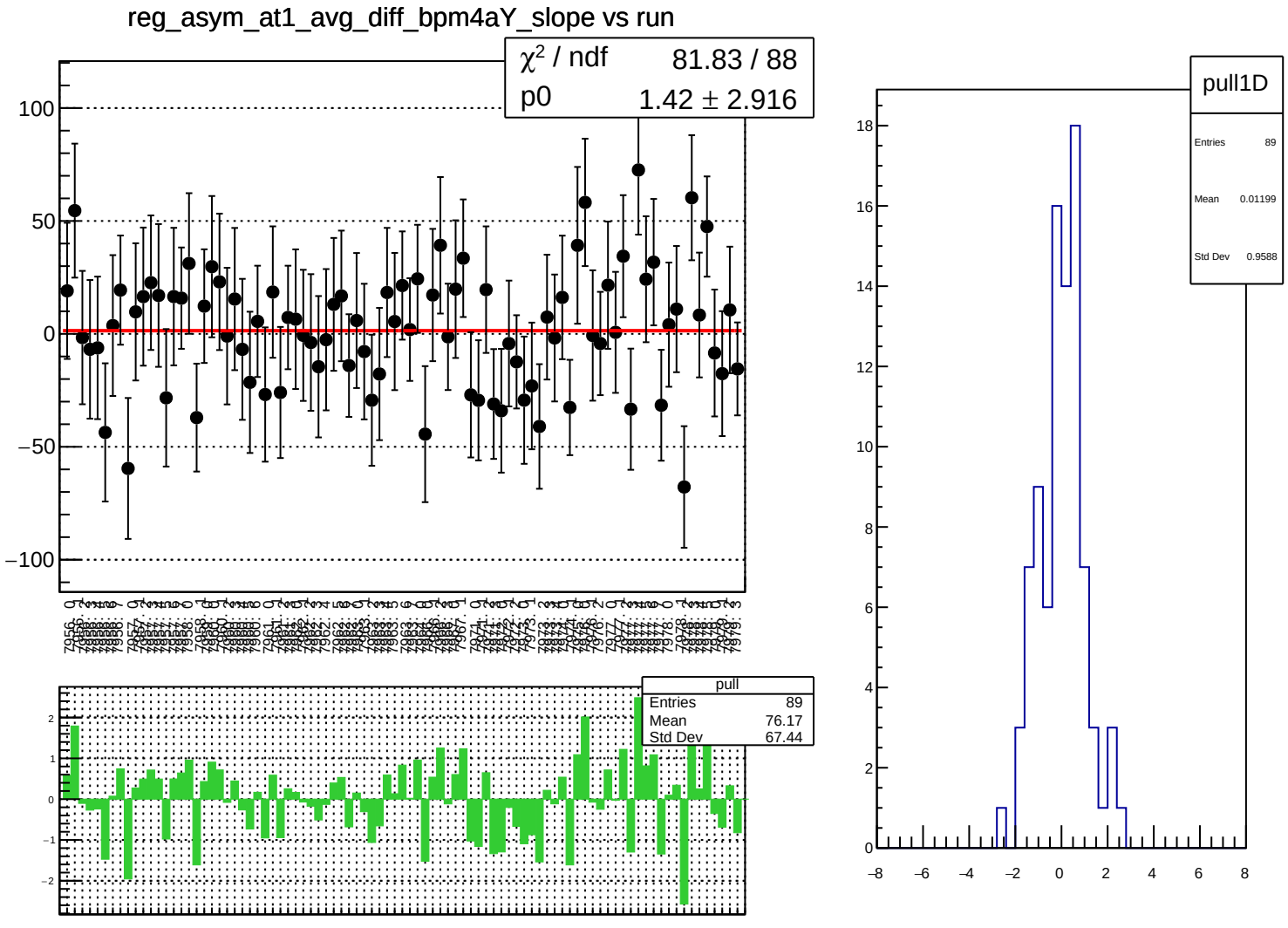

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.559 / 88
p0 −151.5 ± 8.396
pull
Entries 89
Mean −1029
Std Dev 0
pull1D
Entries 89
Mean −0.001461
Std Dev 0.2914

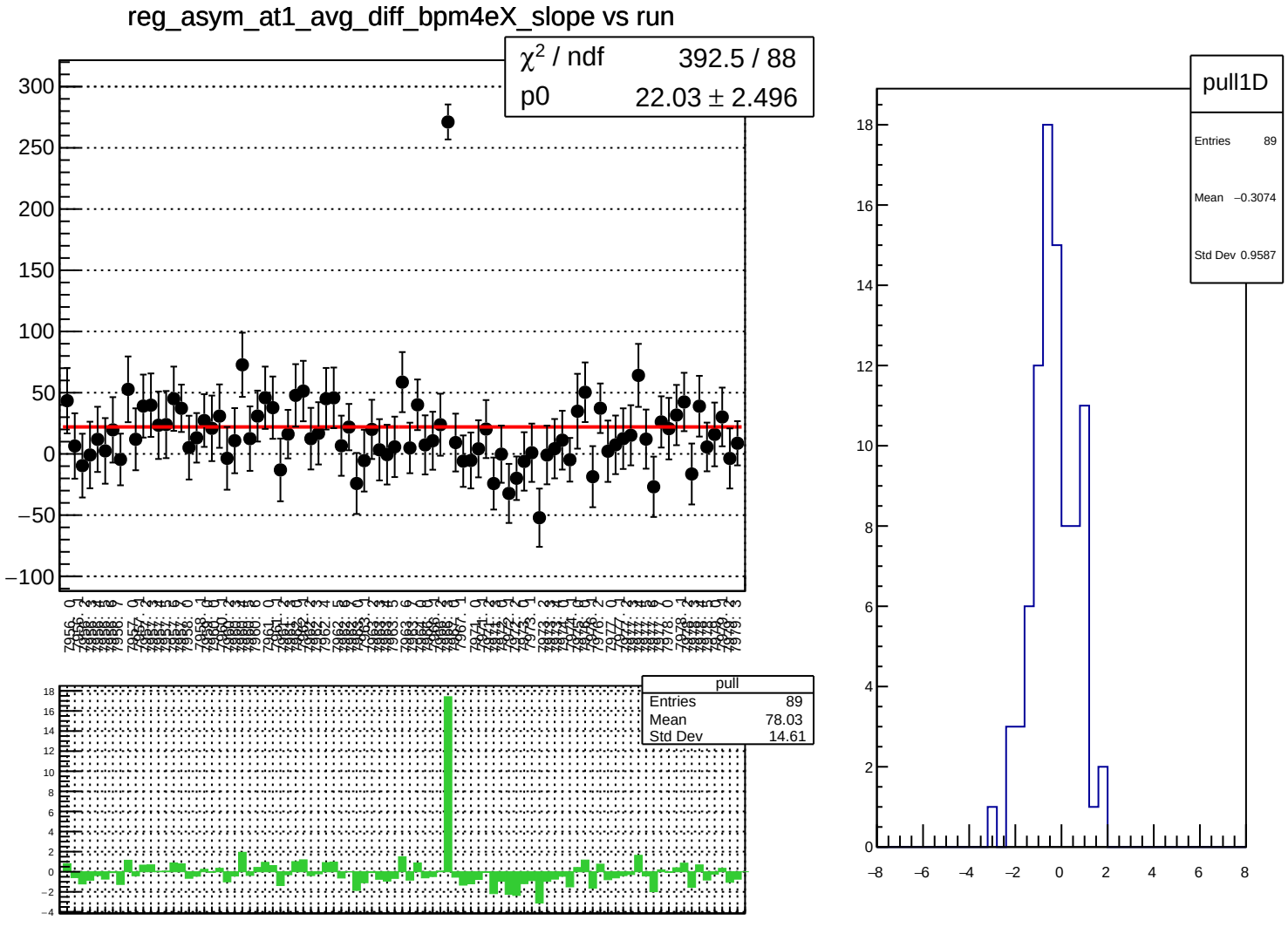

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.766 / 88
p0 7.404 ± 11.27
pull
Entries 89
Mean 492.2
Std Dev 0

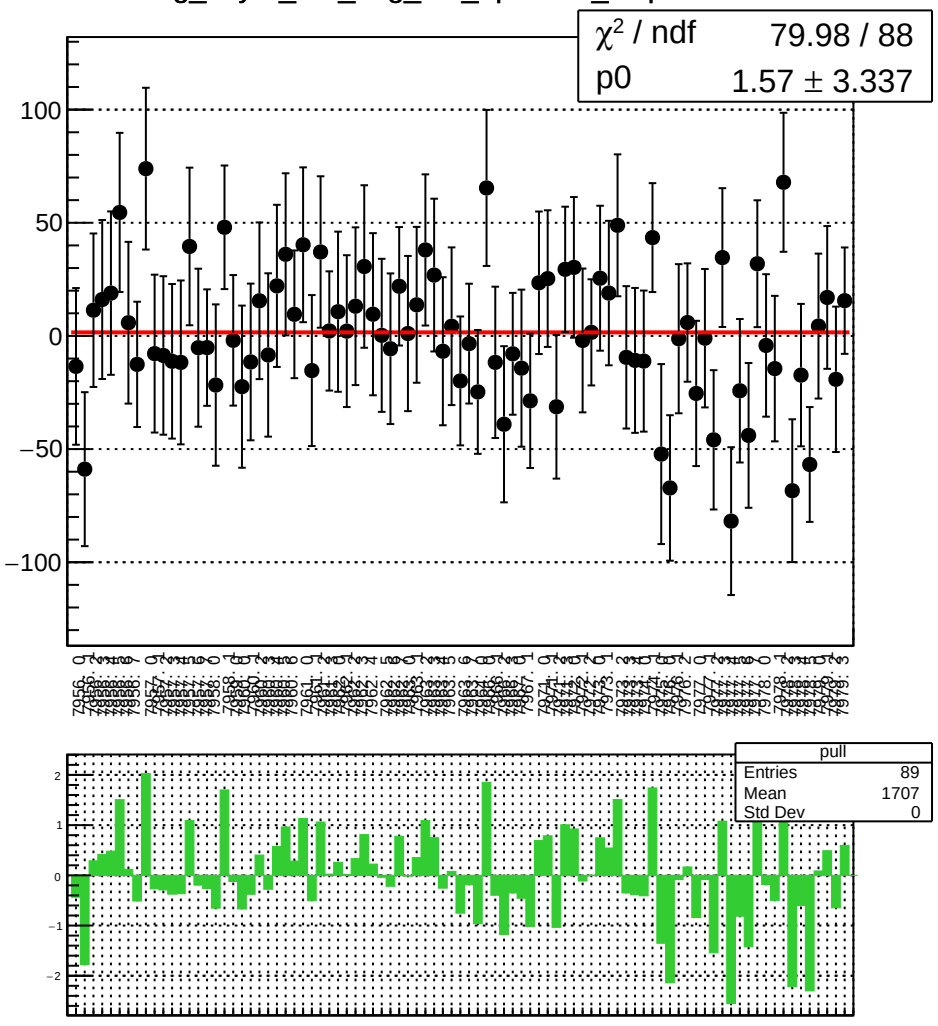

pull1D
Entries 89
Mean −0.003302
Std Dev 0.3312

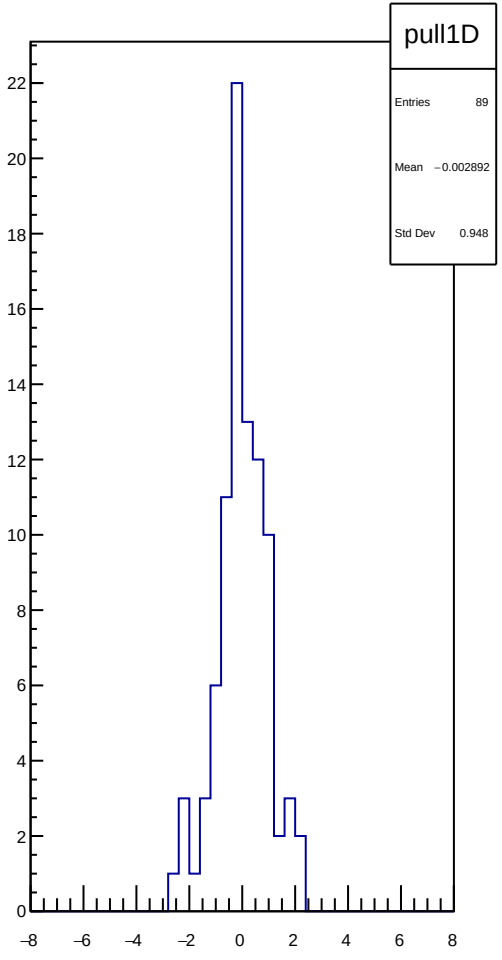

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 41.95 / 88
p0 117.8 ± 0.3254
pull
Entries 89
Mean 907.2
Std Dev 0
pull1D
Entries 89
Mean −0.008269
Std Dev 0.6865

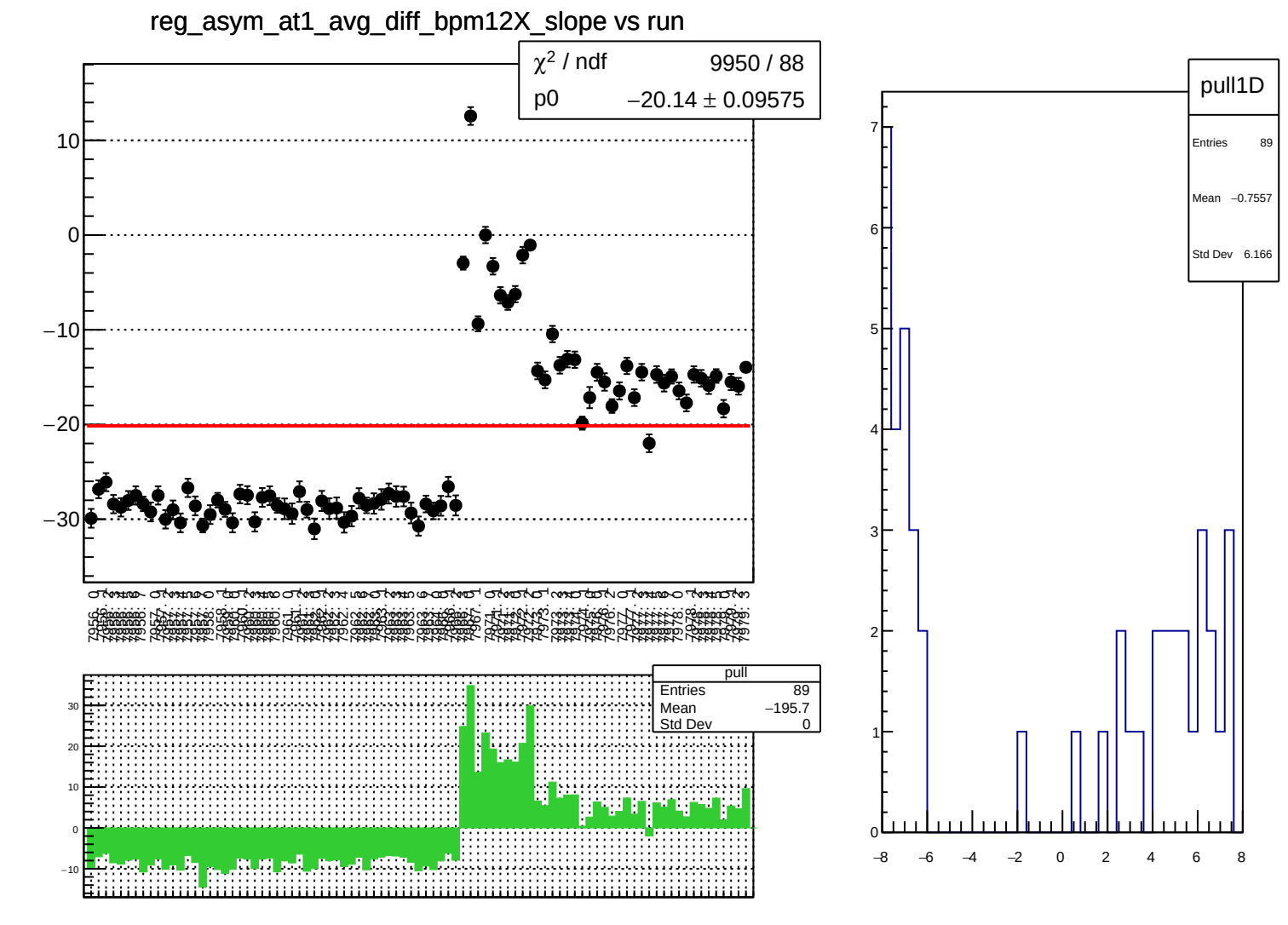

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 405 / 88
p0 −37.99 ± 2.81
pull
Entries 89
Mean 65.36
Std Dev 32.05
pull1D
Entries 89
Mean 0.314
Std Dev 0.9372

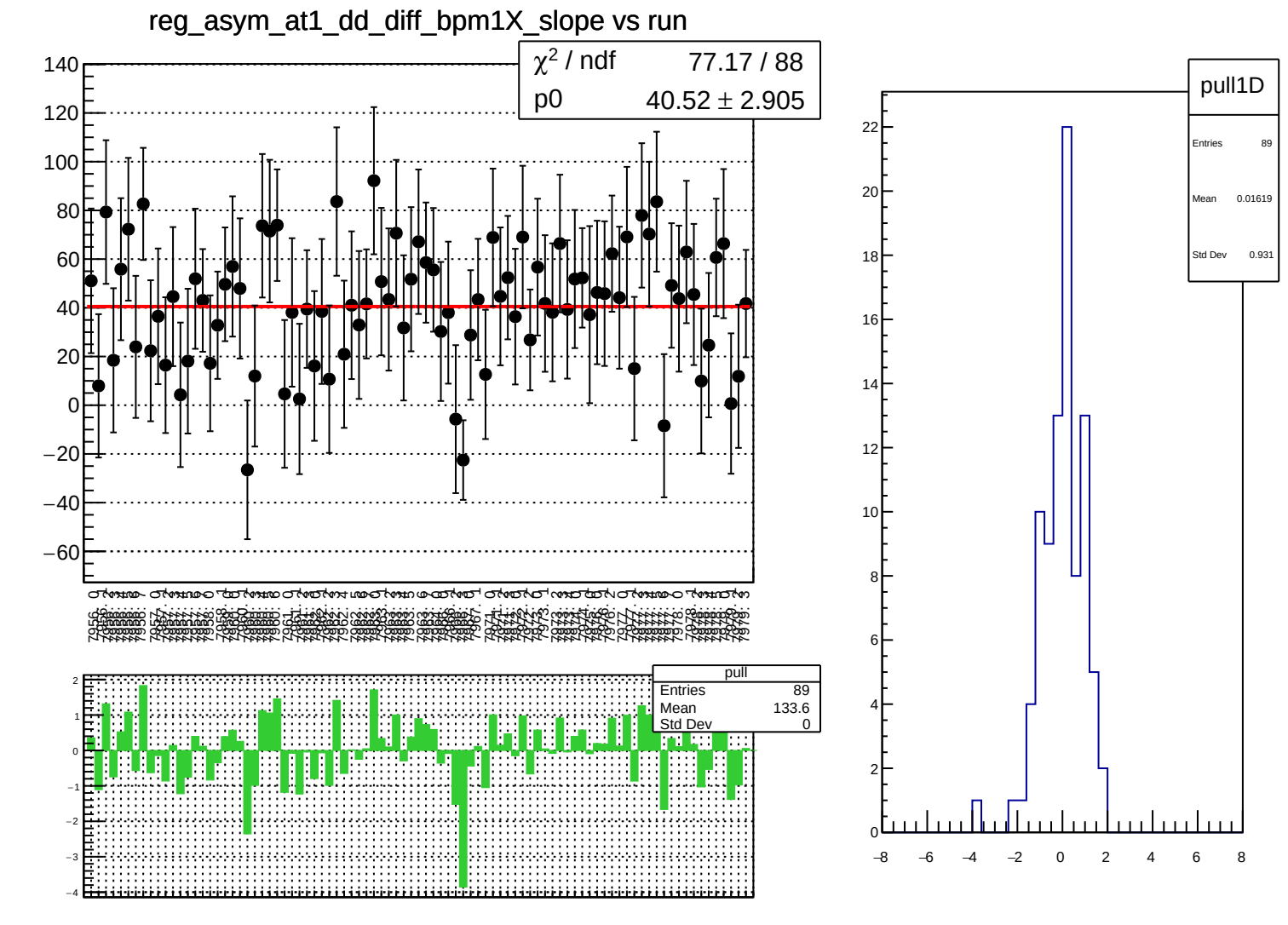

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 81.83 / 88
p0 1.42 ± 2.916
100
50
0
−50
−100
pull
Entries 89
Mean 76.17
Std Dev 67.44
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01199
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

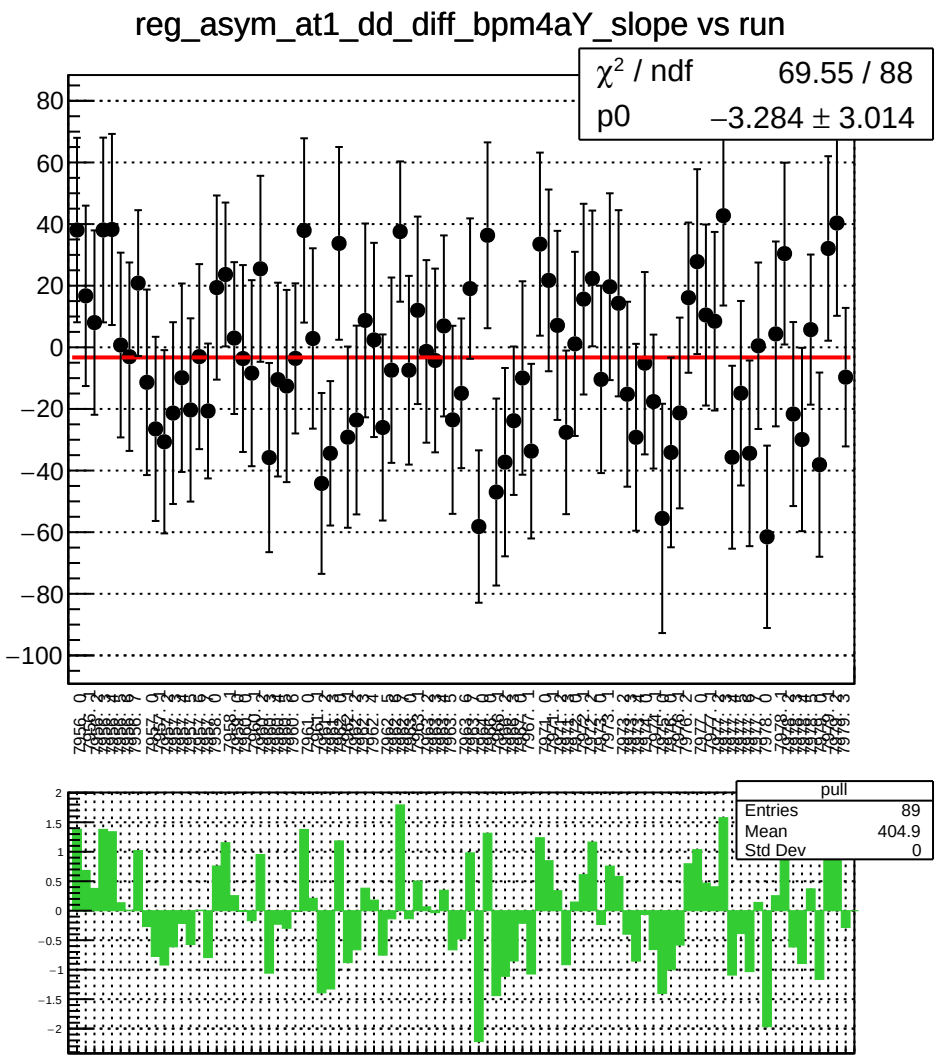

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 392.5 / 88
p0 22.03 ± 2.496
pull
Entries 89
Mean 78.03
Std Dev 14.61
pull1D
Entries 89
Mean −0.3074
Std Dev 0.9587

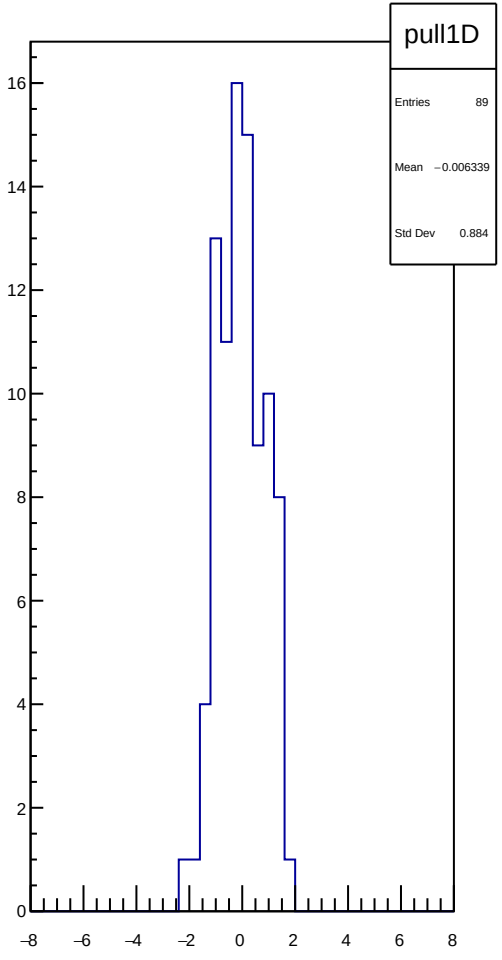

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.98 / 88
p0 1.57 ± 3.337
pull
Entries 89
Mean 1707
Std Dev 0

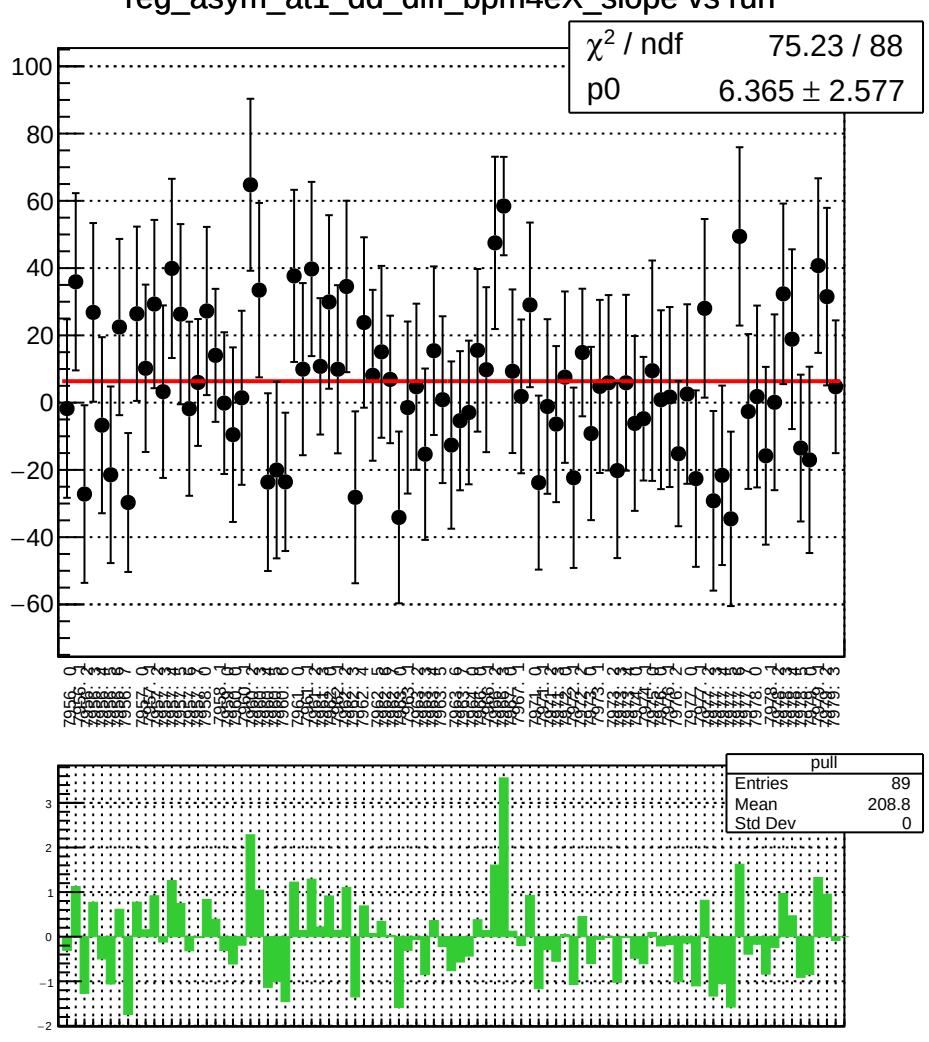

pull1D
Entries 89
Mean −0.002892
Std Dev 0.948

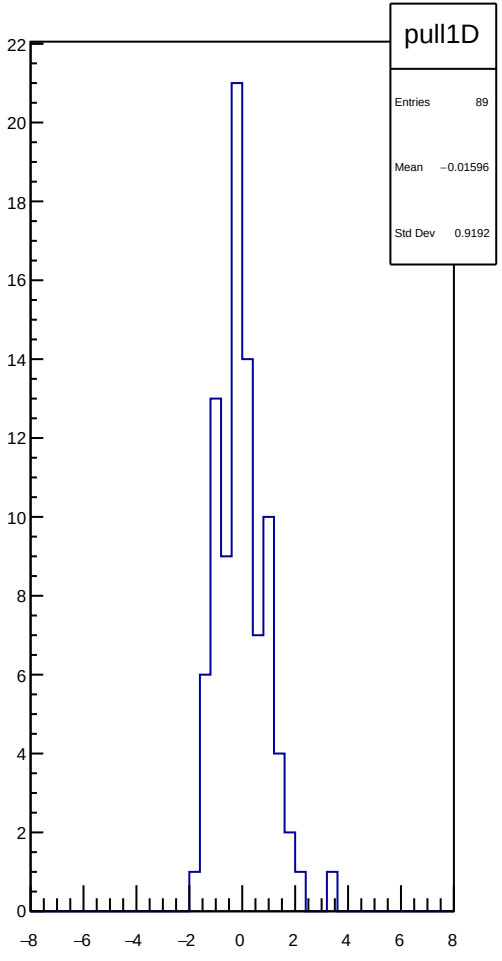

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 9950 / 88
p0 −20.14 ± 0.09575
pull
Entries 89
Mean −195.7
Std Dev 0
pull1D
Entries 89
Mean −0.7557
Std Dev 6.166

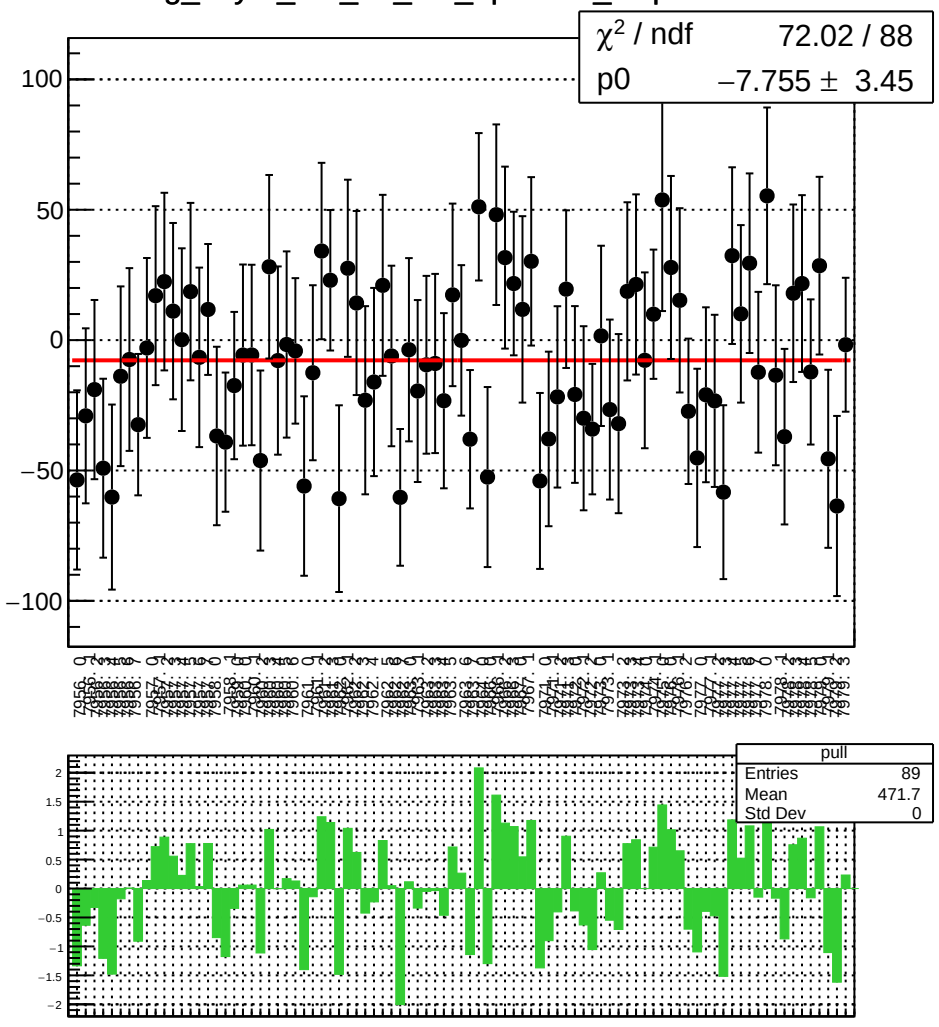

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 77.17 / 88
p0 40.52 ± 2.905
pull
Entries 89
Mean 133.6
Std Dev 0
pull1D
Entries 89
Mean 0.01619
Std Dev 0.931

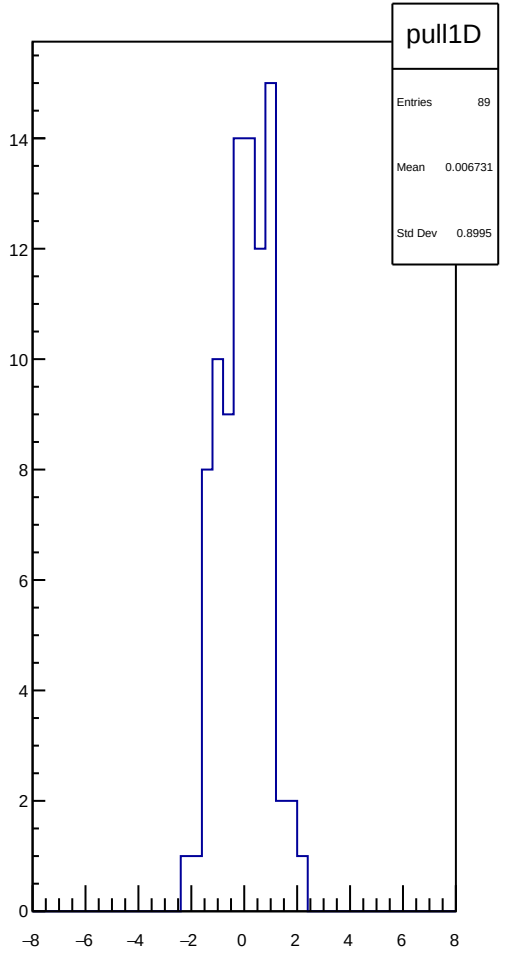

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.55 / 88
p0 −3.284 ± 3.014
pull
Entries 89
Mean 404.9
Std Dev 0

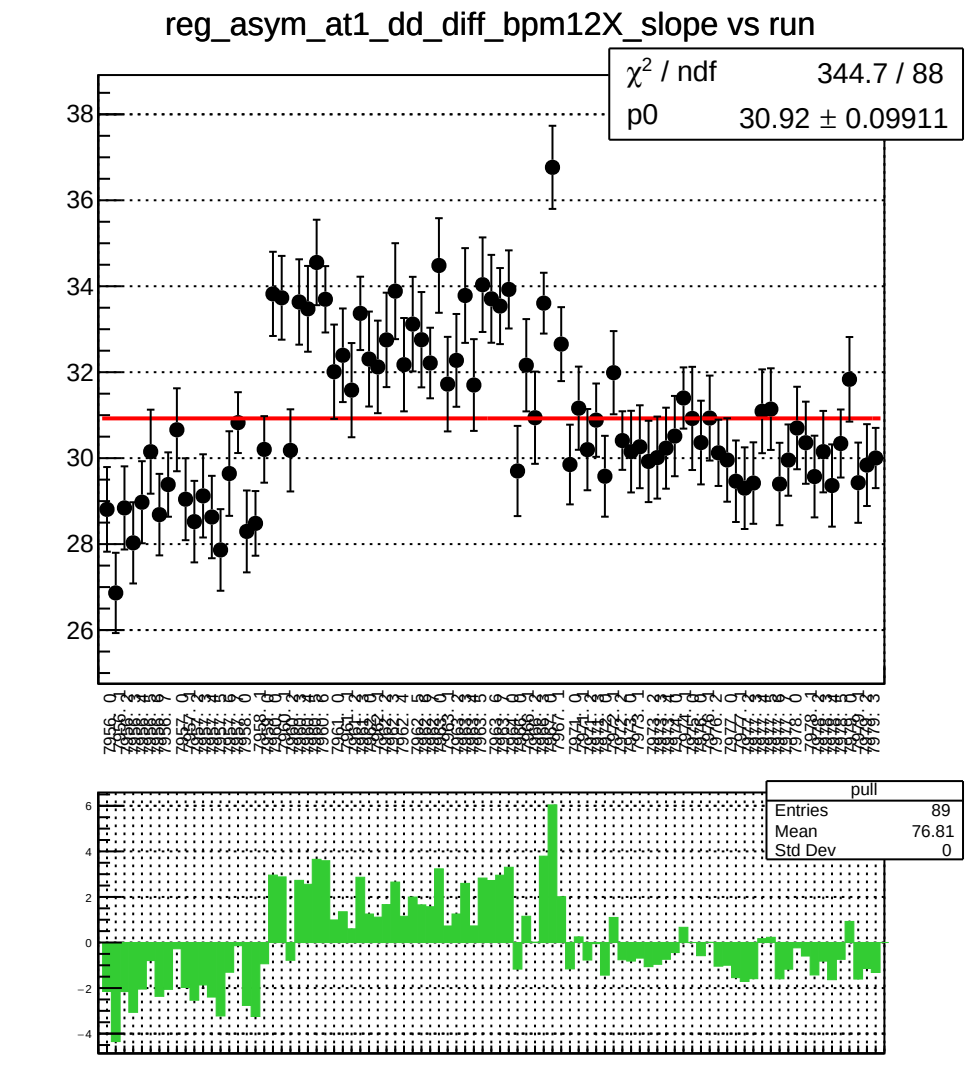

pull1D
Entries 89
Mean −0.006339
Std Dev 0.884

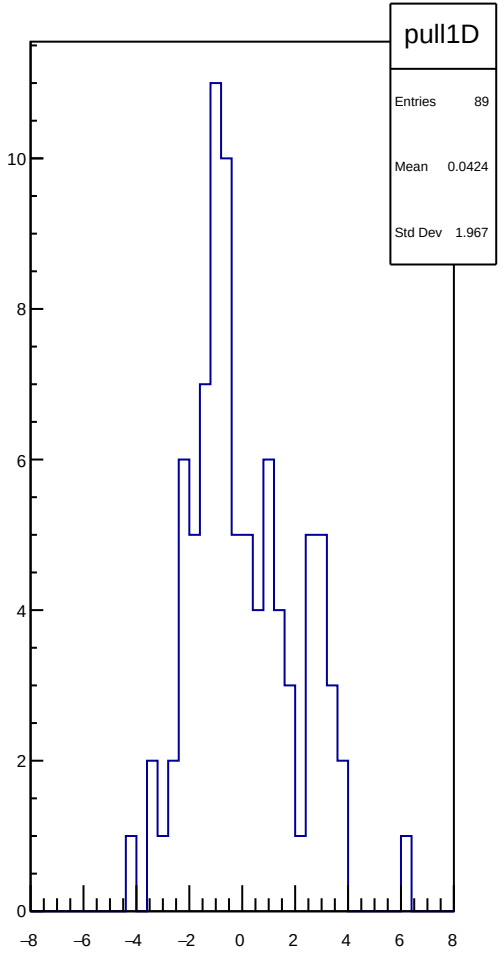

reg_asym_at1_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 75.23 / 88
p0 6.365 ± 2.577
pull
Entries 89
Mean 208.8
Std Dev 0

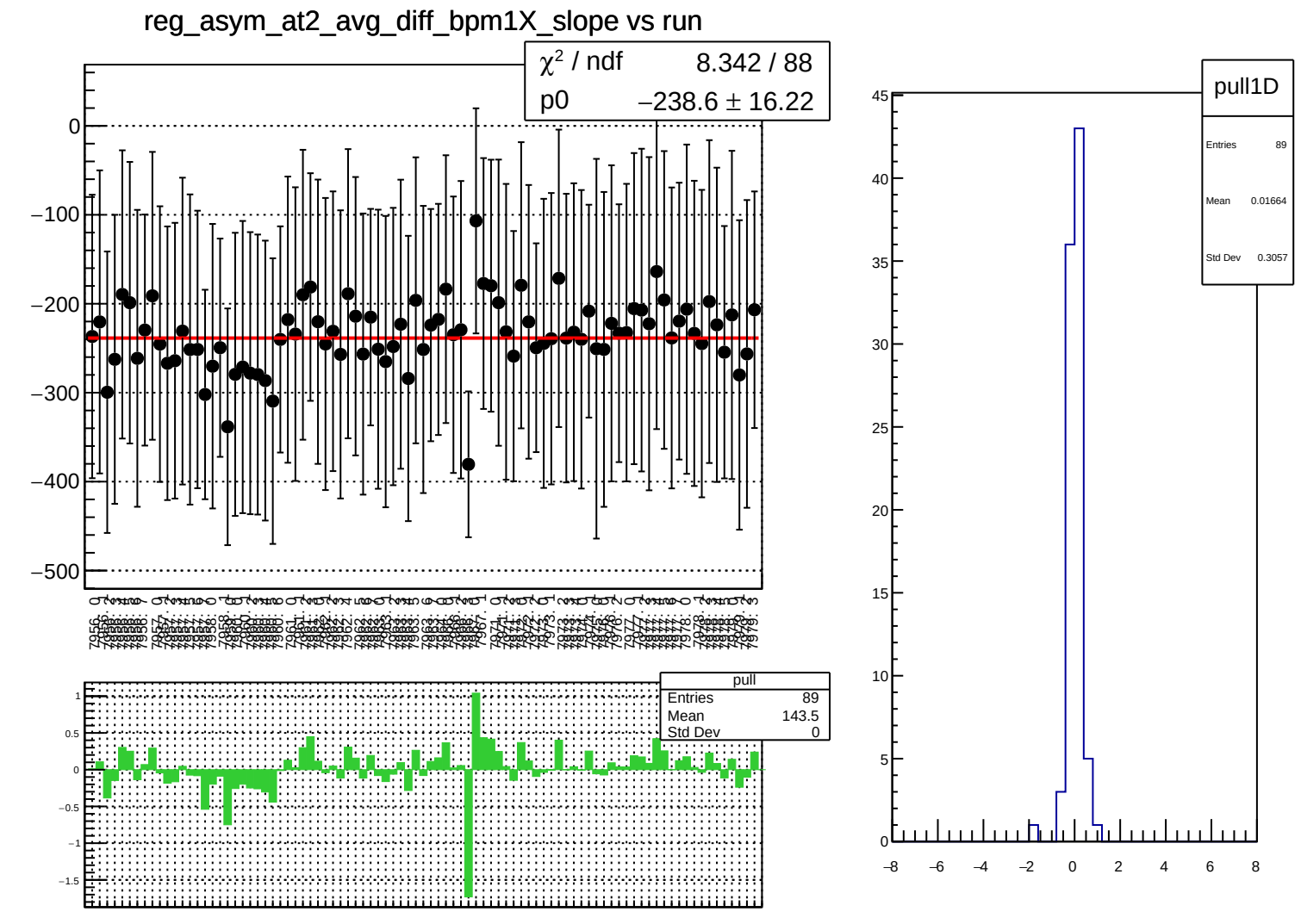

pull1D
Entries 89
Mean −0.01596
Std Dev 0.9192

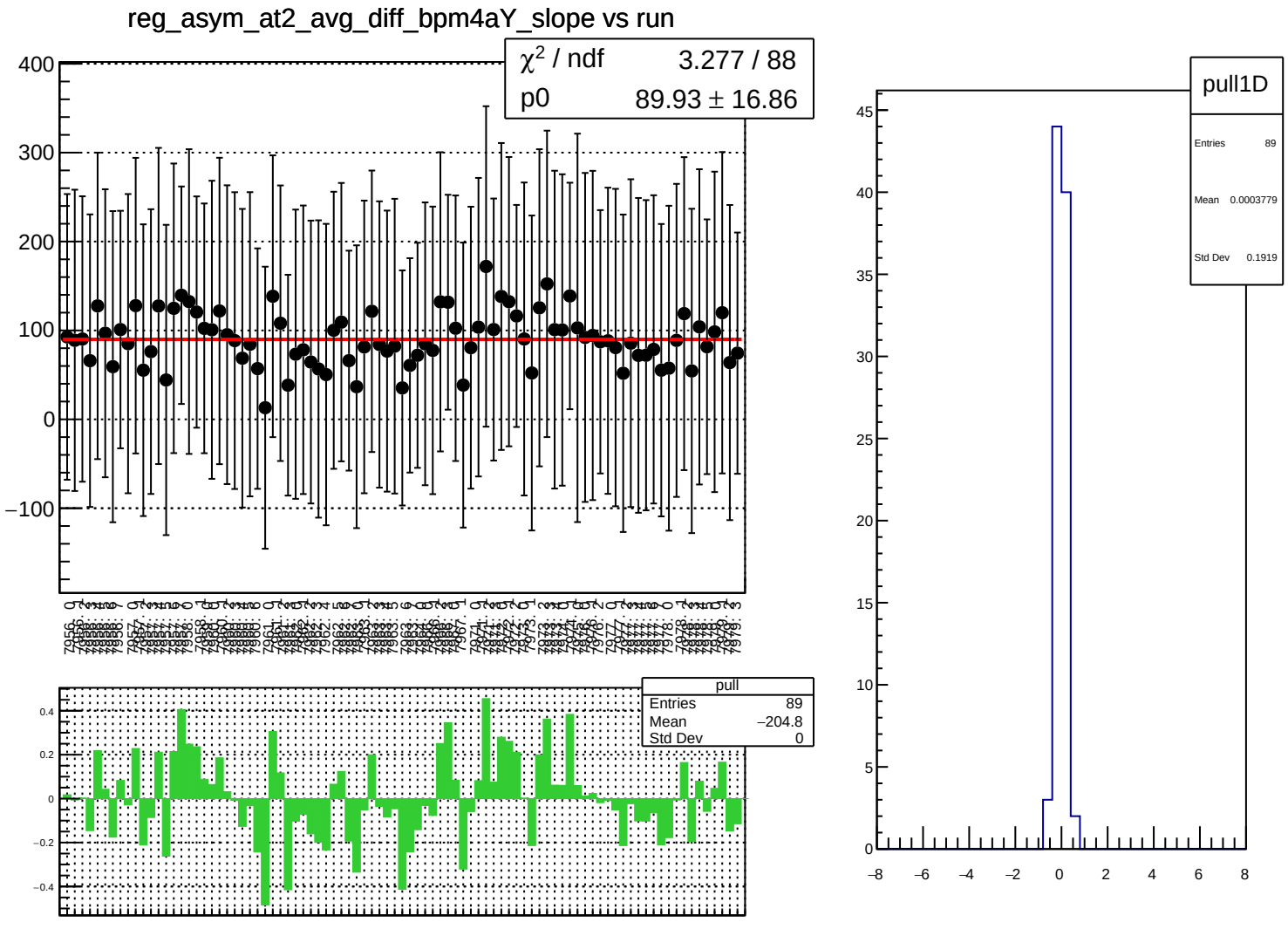

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.02 / 88
p0 −7.755 ± 3.45
100
50
0
−50
−100
pull
Entries 89
Mean 471.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

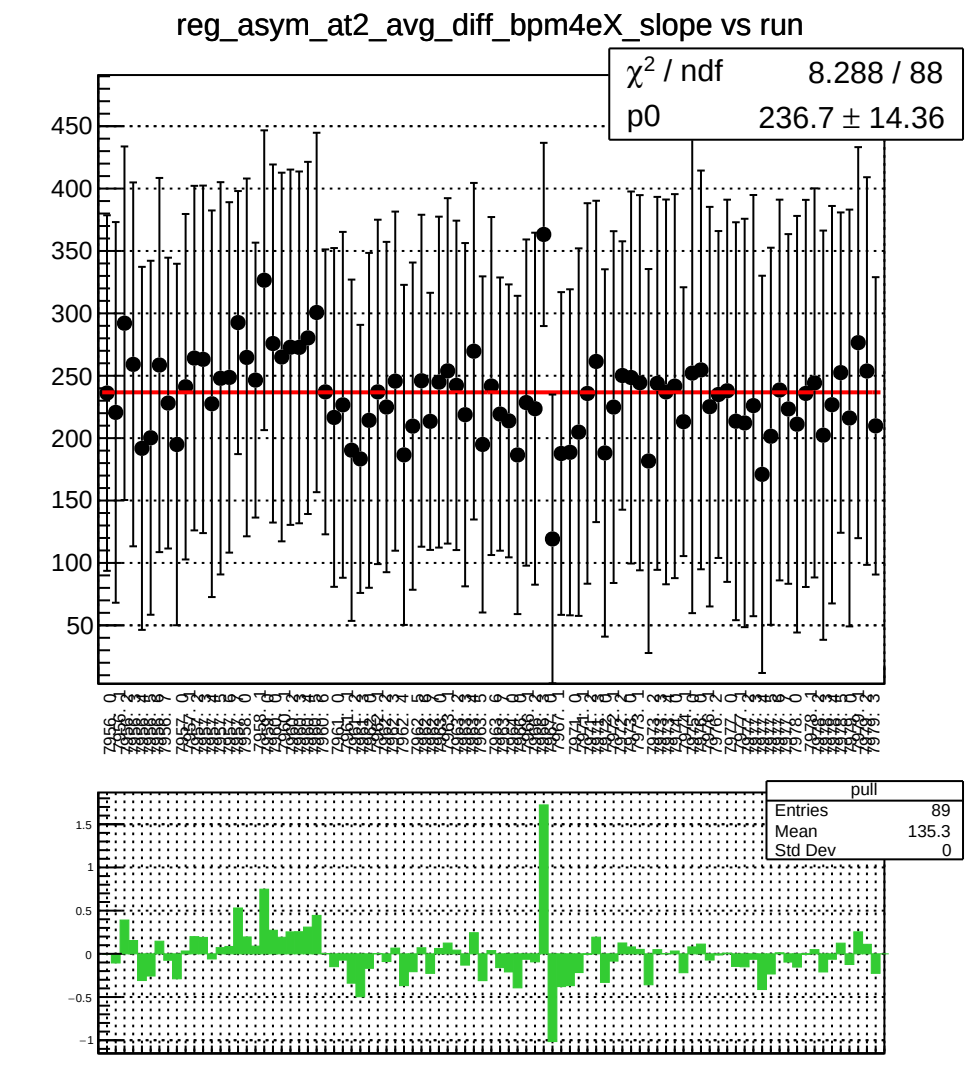

pull1D
Entries 89
Mean 0.006731
Std Dev 0.8995
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

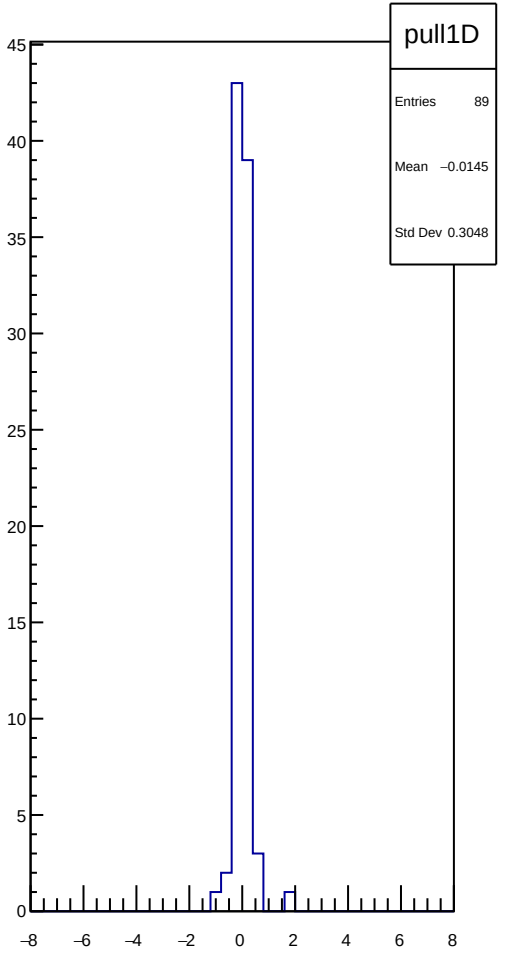

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 344.7 / 88
p0 30.92 ± 0.09911
pull
Entries 89
Mean 76.81
Std Dev 0

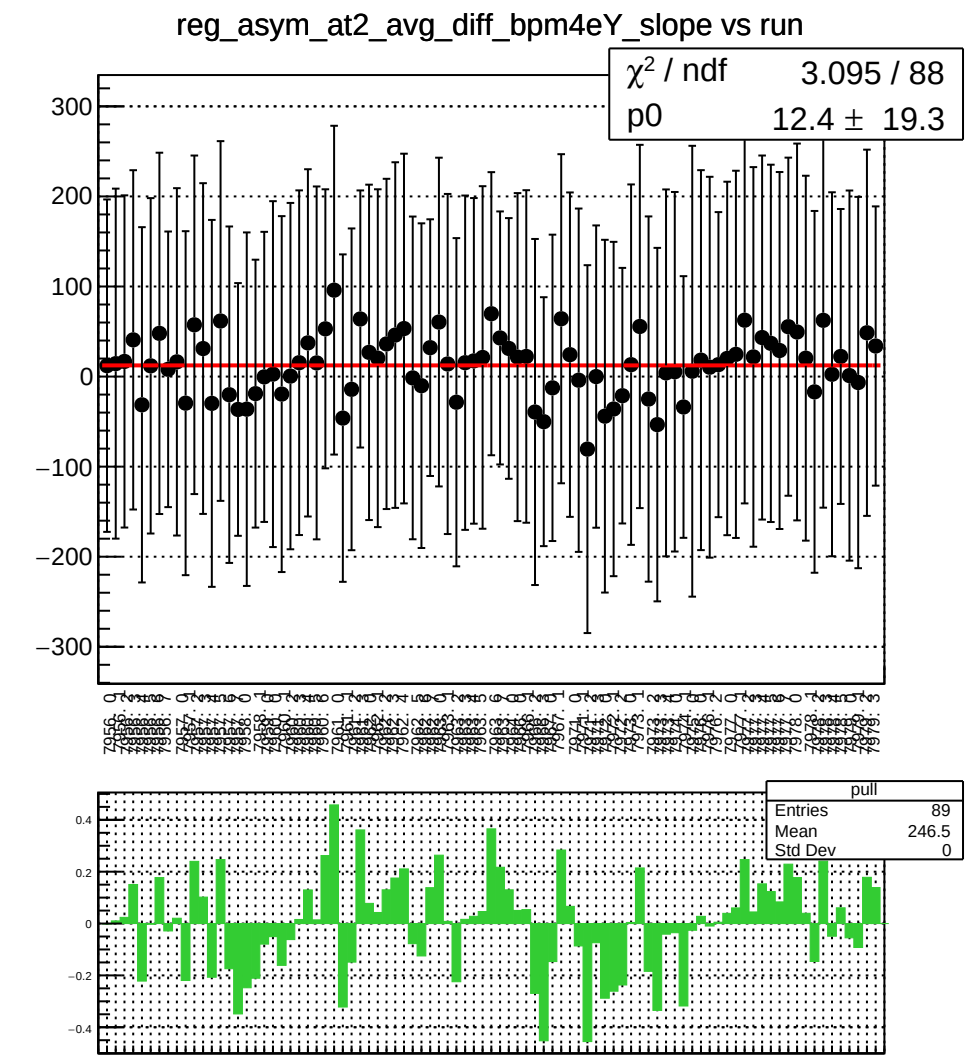

pull1D
Entries 89
Mean 0.0424
Std Dev 1.967

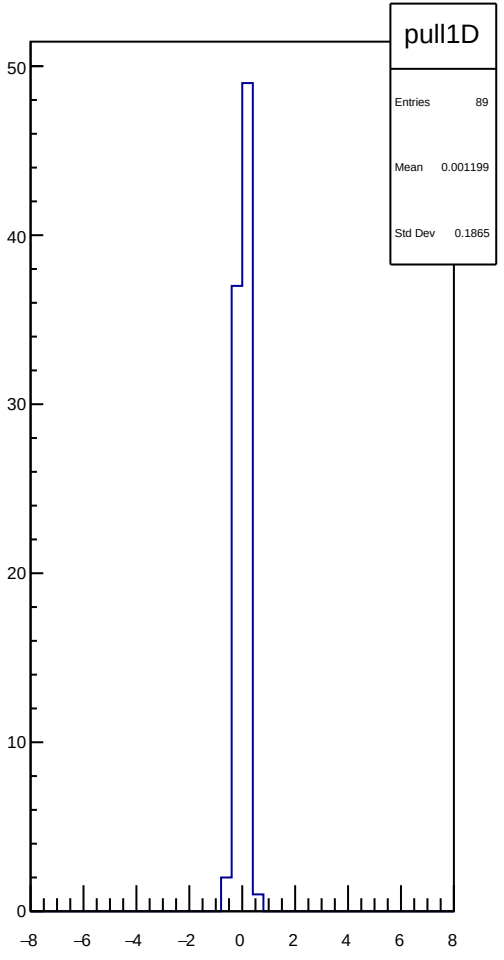

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.342 / 88
p0 −238.6 ± 16.22
pull
Entries 89
Mean 143.5
Std Dev 0
pull1D
Entries 89
Mean 0.01664
Std Dev 0.3057

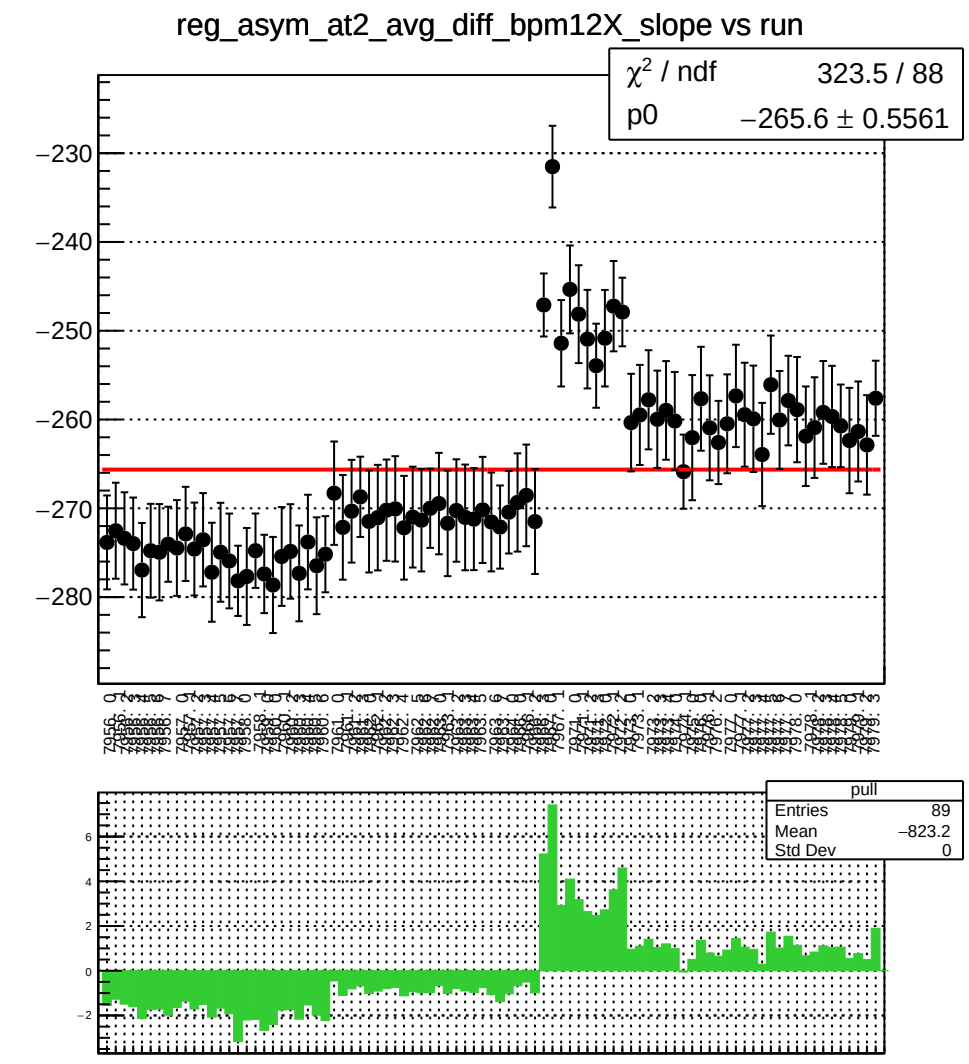

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.277 / 88
p0 89.93 ± 16.86
400
300
200
100
0
−100
pull
Entries 89
Mean −204.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 89
Mean 0.0003779
Std Dev 0.1919
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

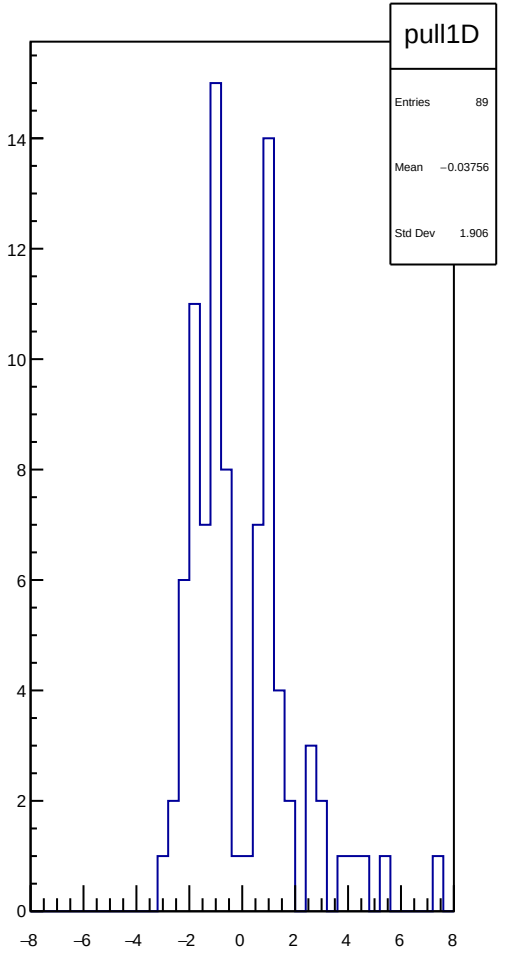

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.288 / 88
p0 236.7 ± 14.36
pull
Entries 89
Mean 135.3
Std Dev 0

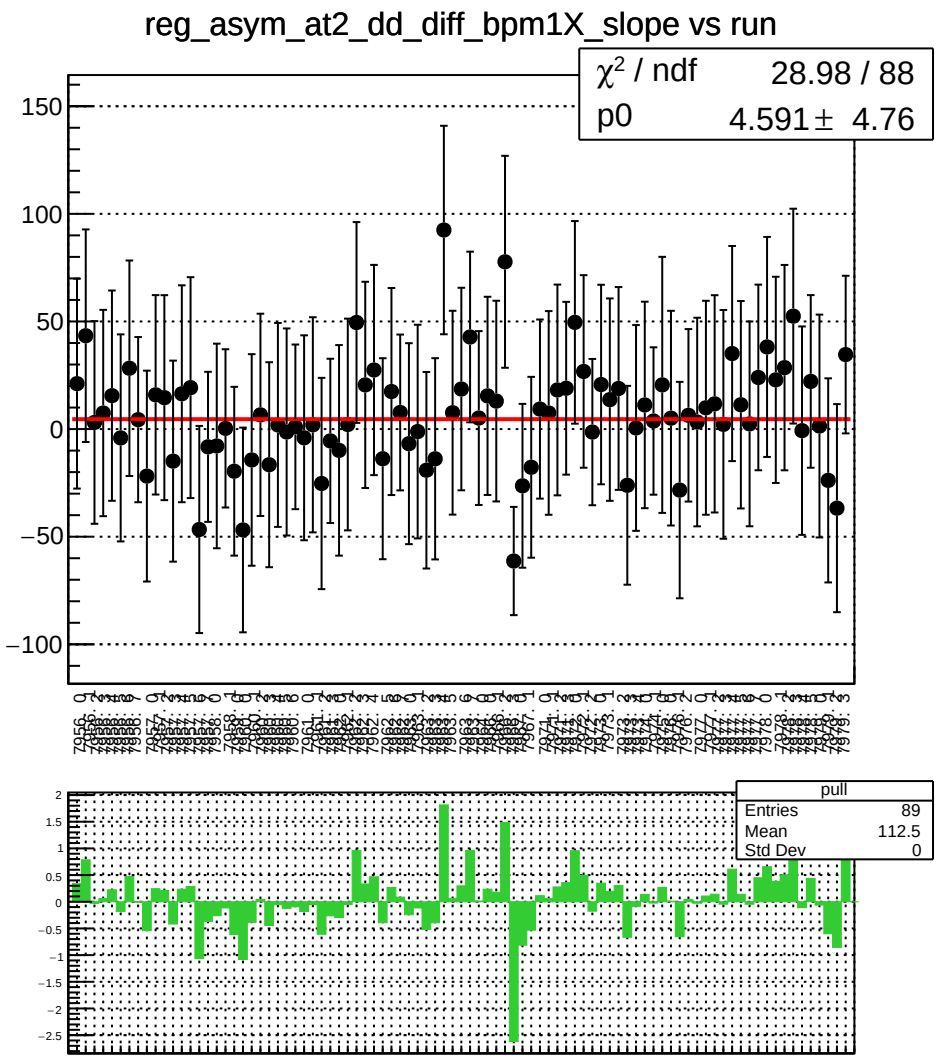

pull1D
Entries 89
Mean −0.0145
Std Dev 0.3048

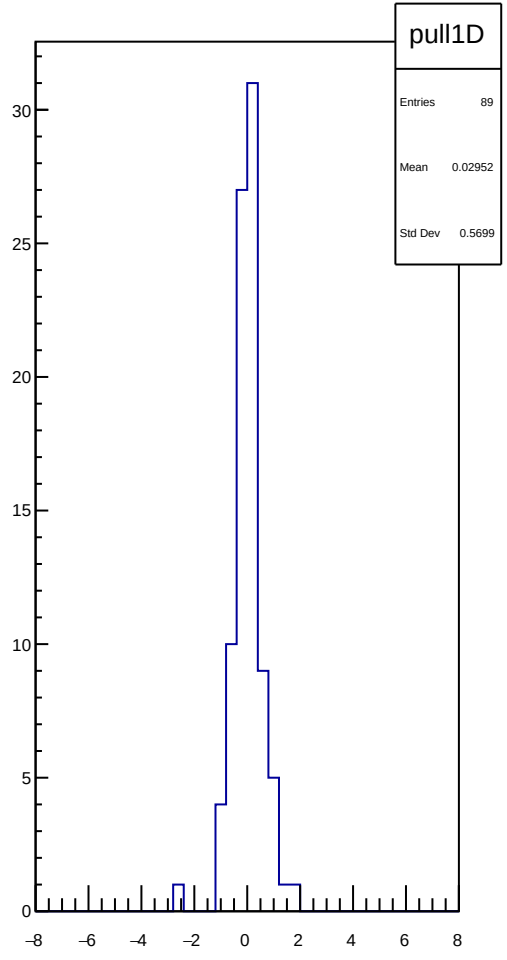

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.095 / 88
p0 12.4 ± 19.3
pull
Entries 89
Mean 246.5
Std Dev 0

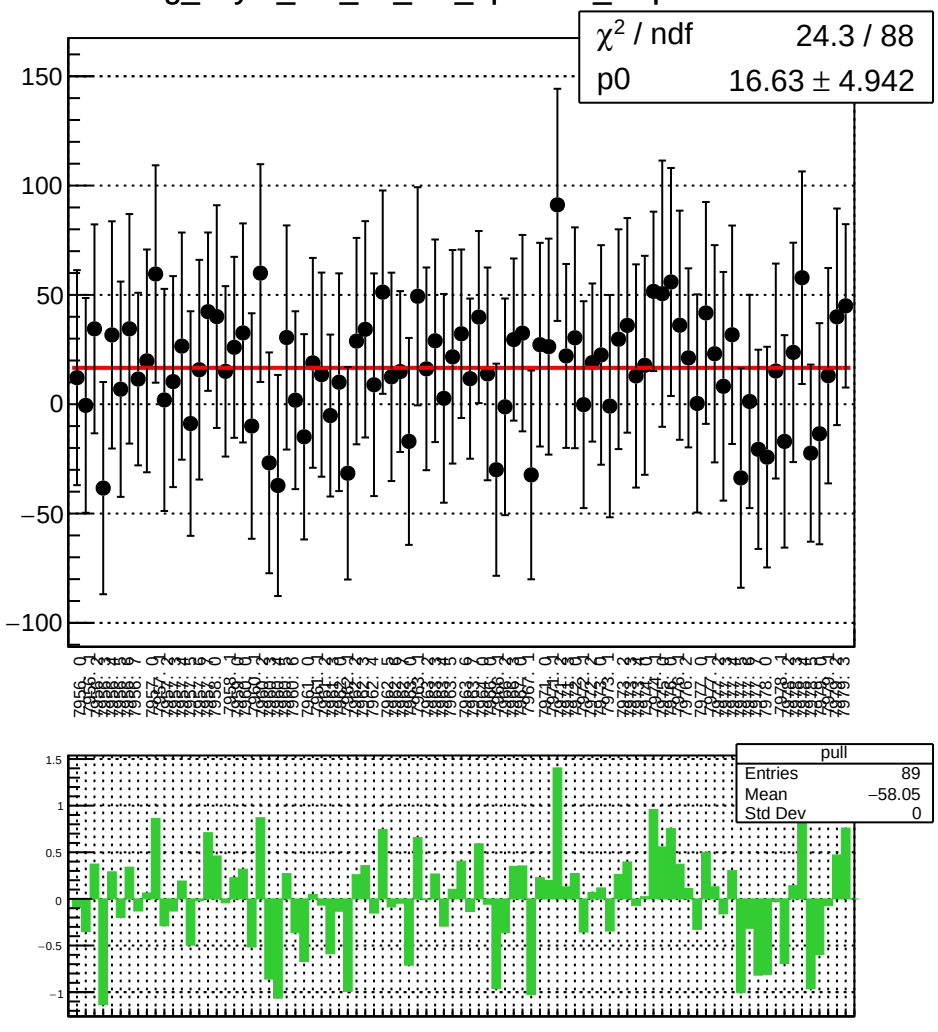

pull1D
Entries 89
Mean 0.001199
Std Dev 0.1865

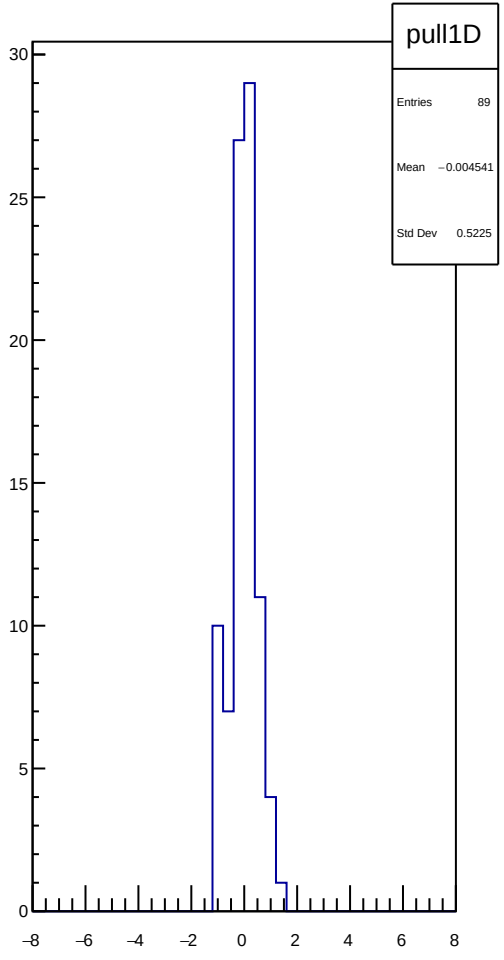

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 323.5 / 88
p0 −265.6 ± 0.5561
−230
−240
−250
−260
−270
−280
pull
Entries 89
Mean −823.2
Std Dev 0
6
4
2
0
−2

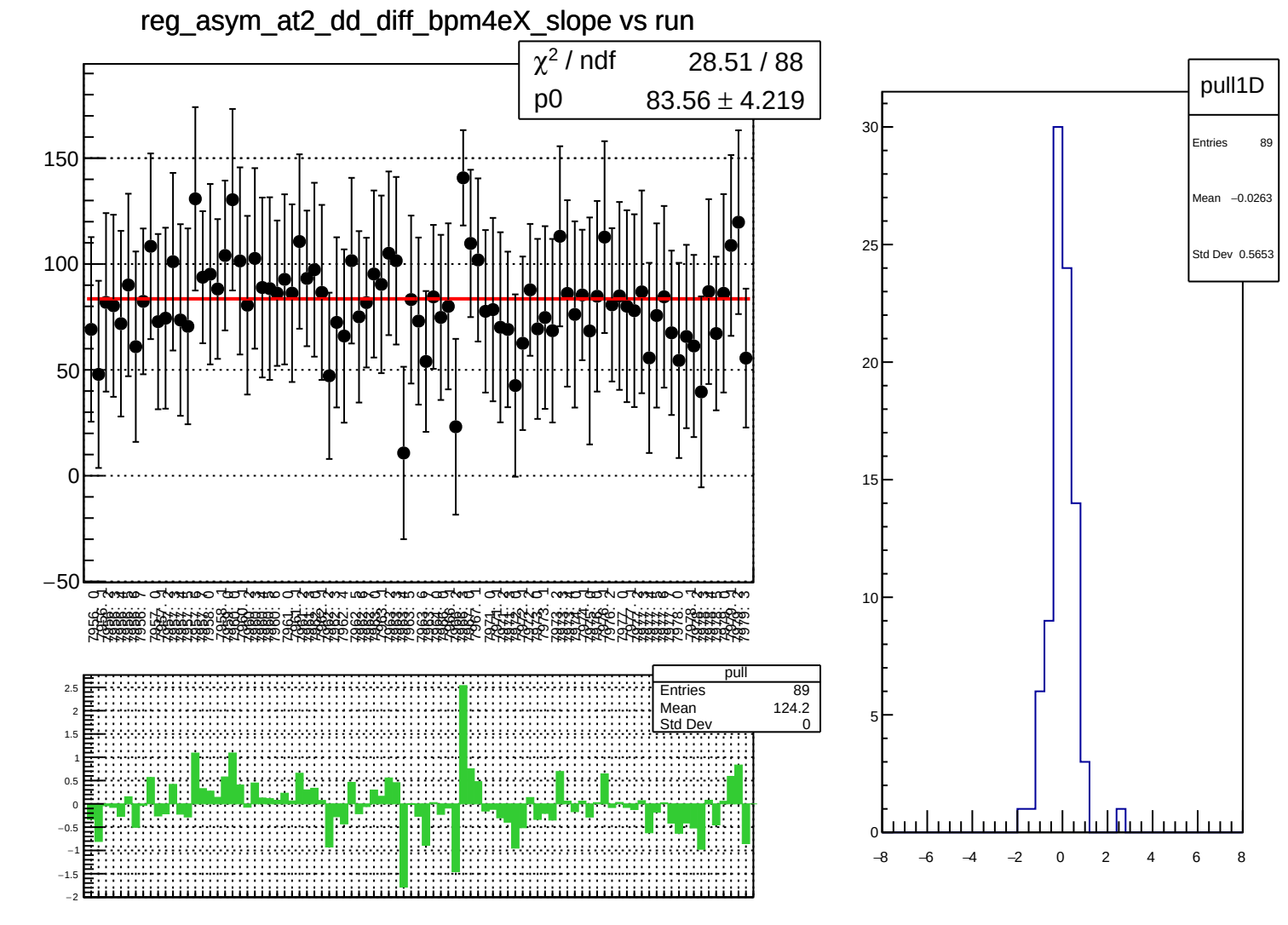

pull1D
Entries 89
Mean −0.03756
Std Dev 1.906
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

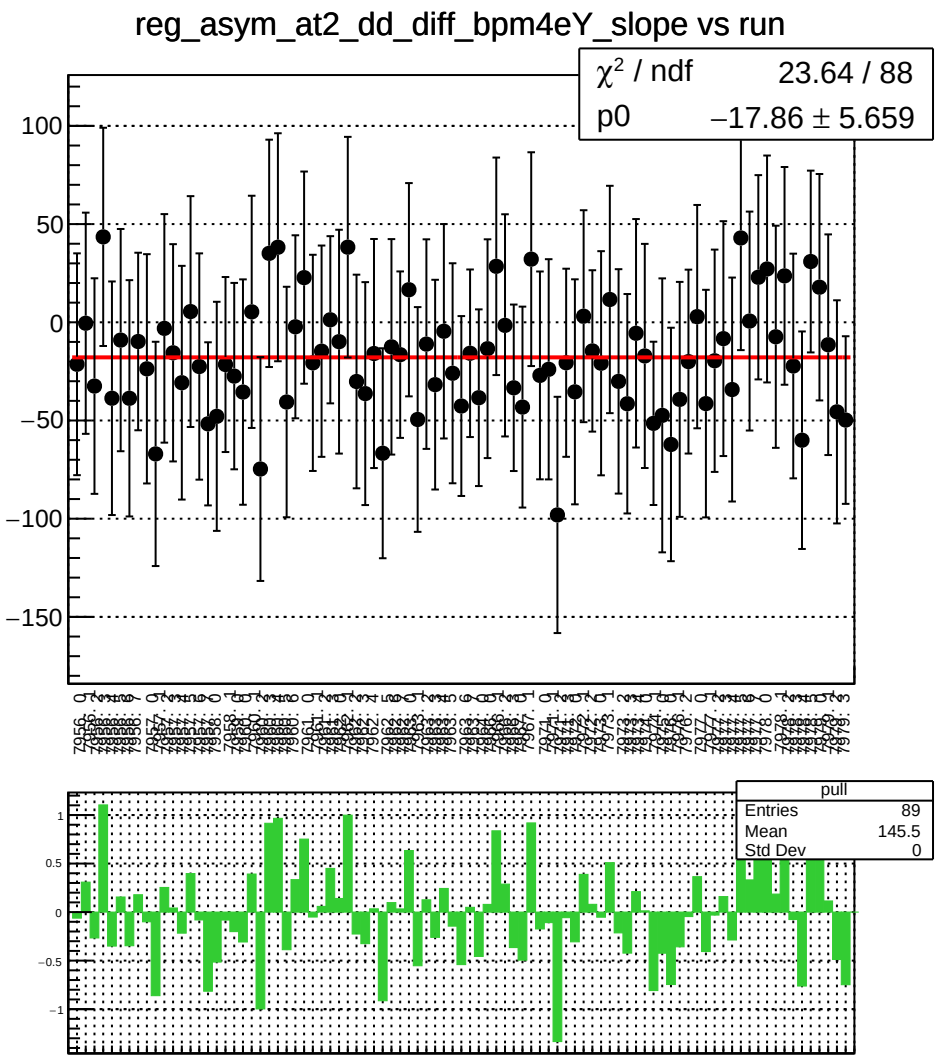

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 28.98 / 88
p0 4.591 ± 4.76
150
100
50
0
−50
−100
pull
Entries 89
Mean 112.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

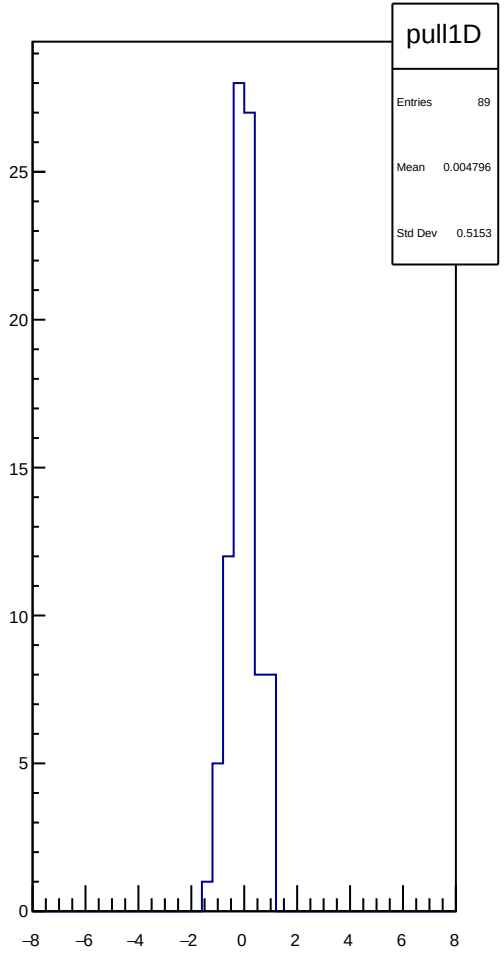

pull1D
Entries 89
Mean 0.02952
Std Dev 0.5699
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

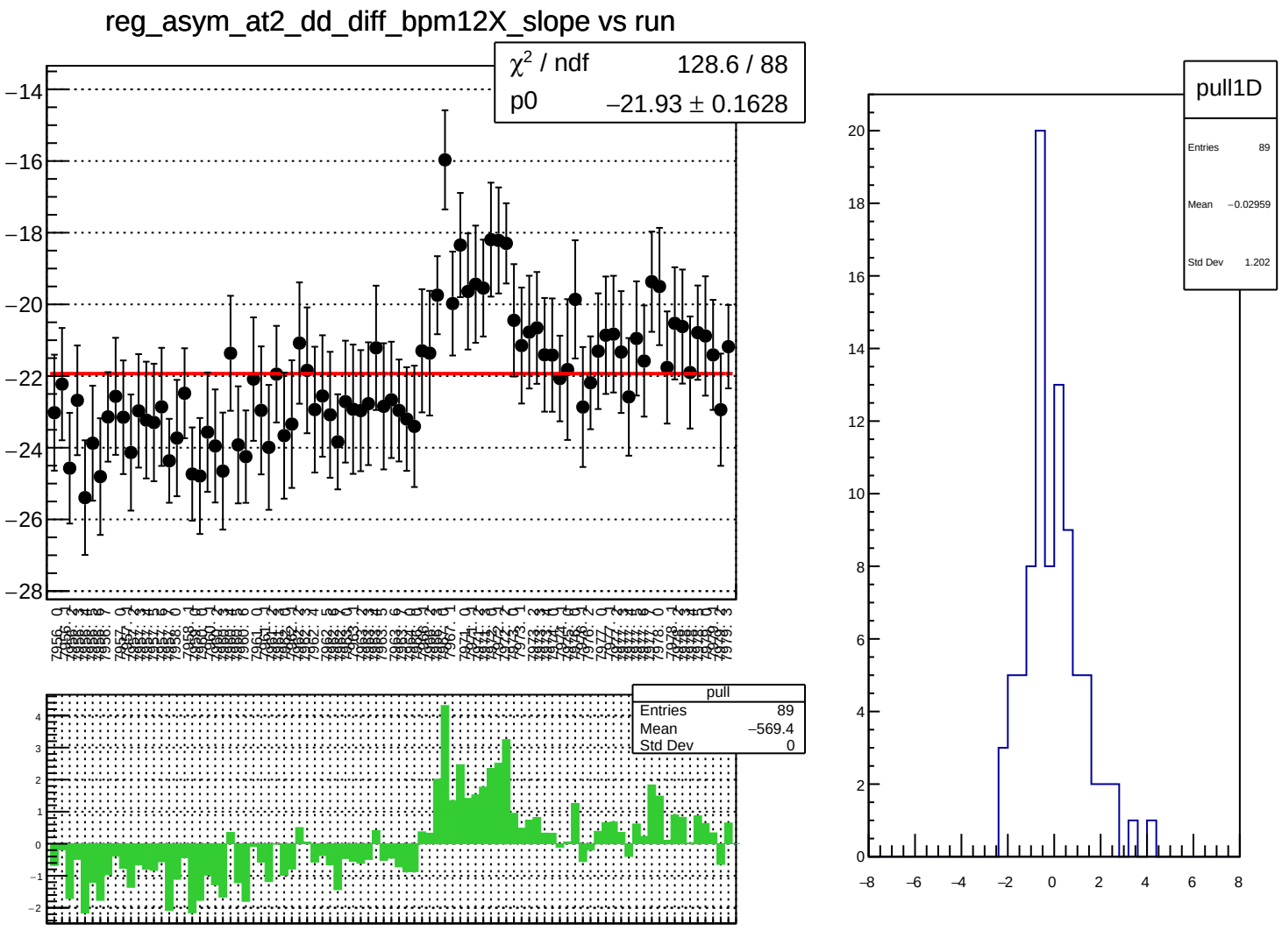

reg_asym_at2_dd_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 24.3 / 88
p0 16.63 ± 4.942
150
100
50
0
−50
−100
pull
Entries 89
Mean −58.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1

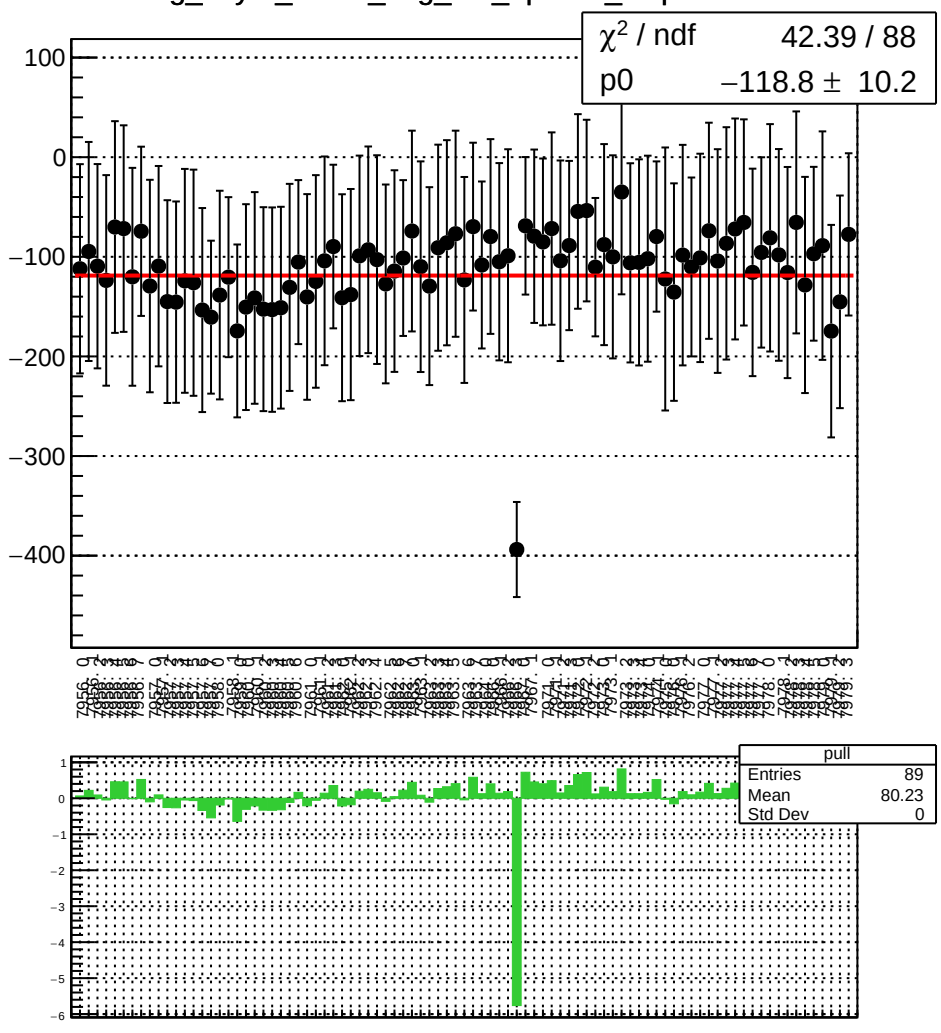

pull1D
Entries 89
Mean −0.004541
Std Dev 0.5225
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

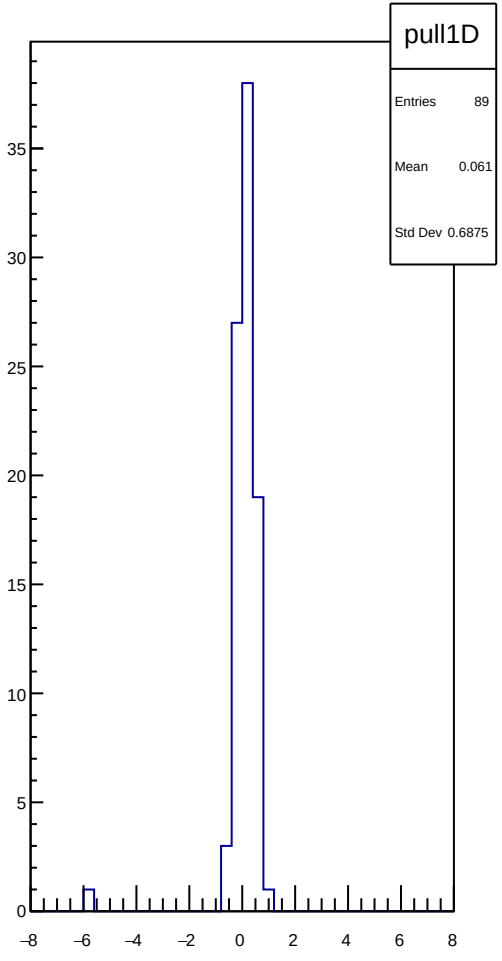

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.51 / 88
p0 83.56 ± 4.219
150
100
50
0
−50
pull
Entries 89
Mean 124.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.0263
Std Dev 0.5653
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

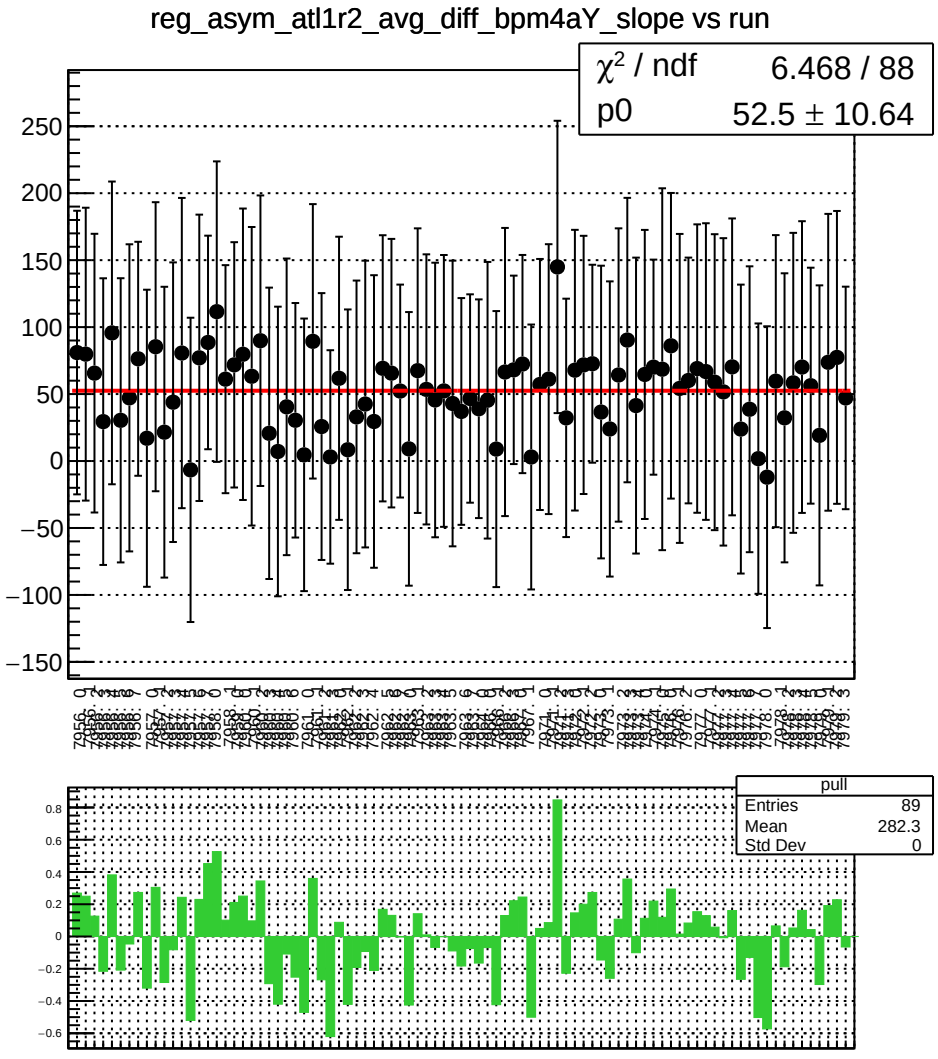

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.64 / 88
p0 −17.86 ± 5.659
100
50
0
−50
−100
−150
pull
Entries 89
Mean 145.5
Std Dev 0
1
0.5
0
−0.5
−1

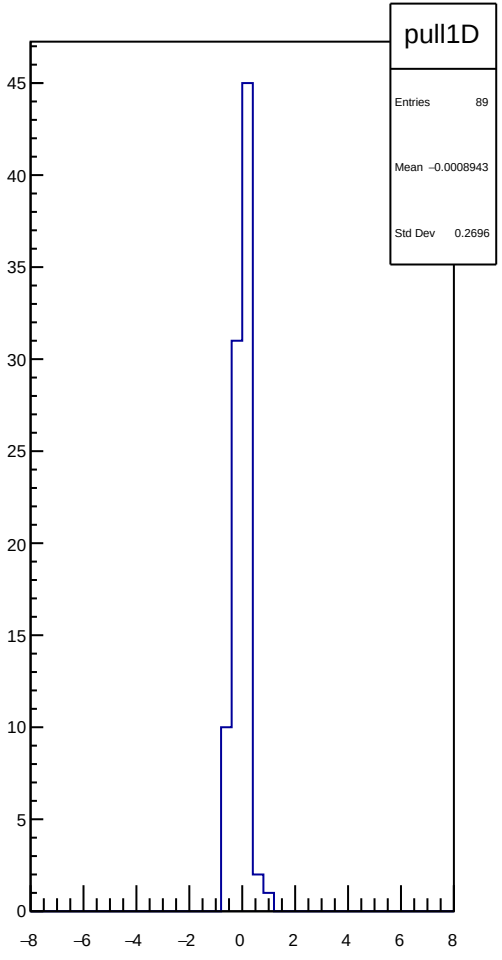

pull1D
Entries 89
Mean 0.004796
Std Dev 0.5153
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

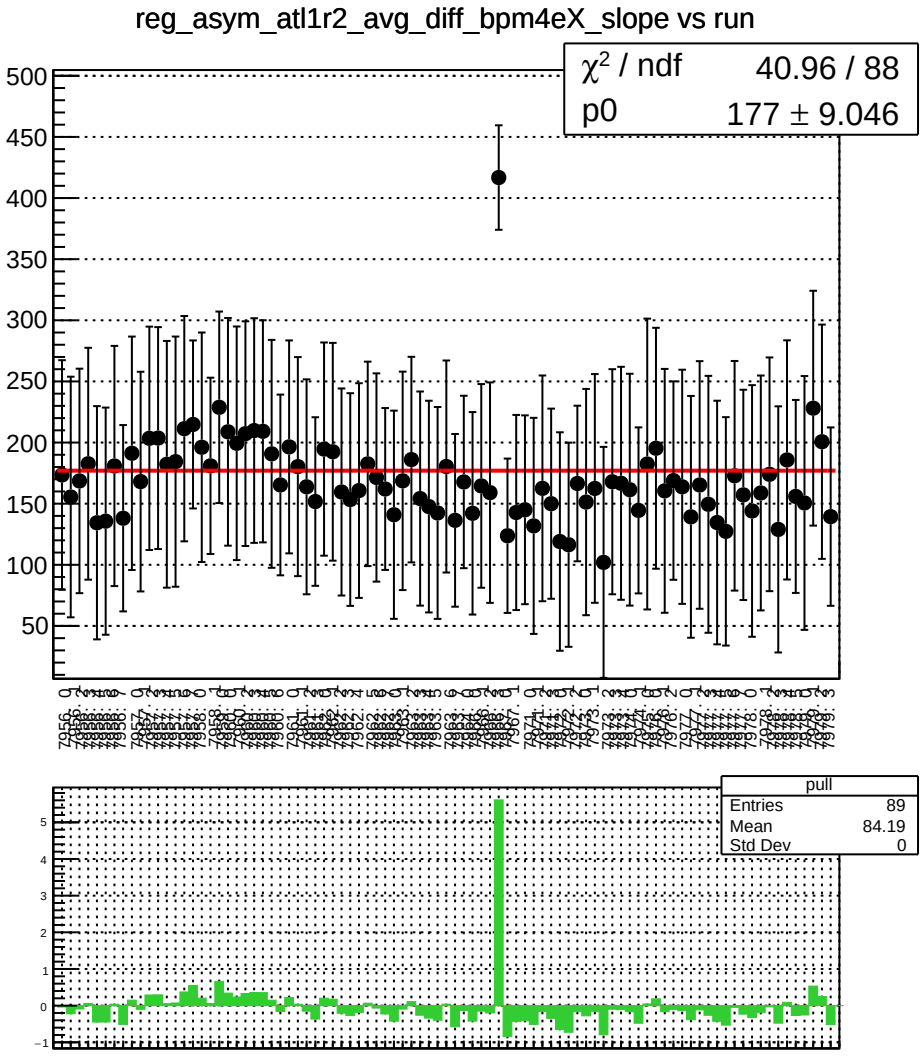

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 128.6 / 88
p0 −21.93 ± 0.1628
pull
Entries 89
Mean −569.4
Std Dev 0
pull1D
Entries 89
Mean −0.02959
Std Dev 1.202

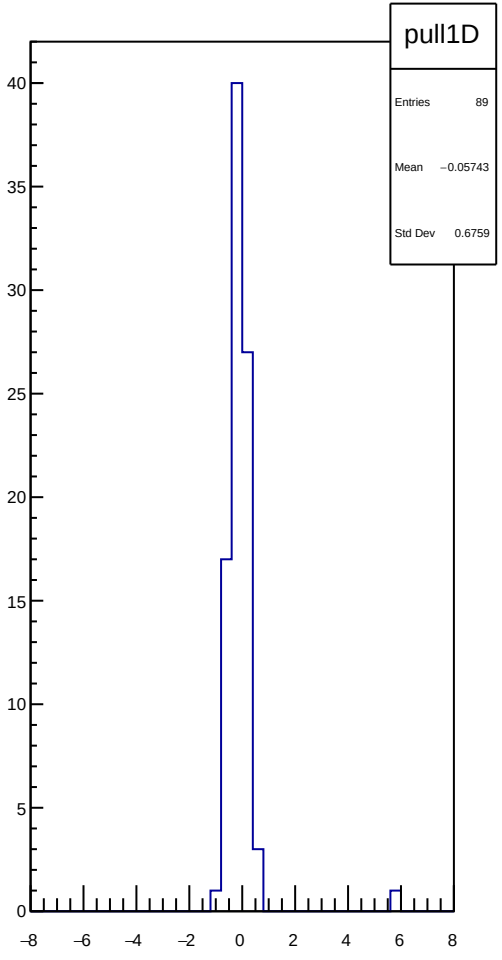

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 42.39 / 88
p0 −118.8 ± 10.2
pull
Entries 89
Mean 80.23
Std Dev 0

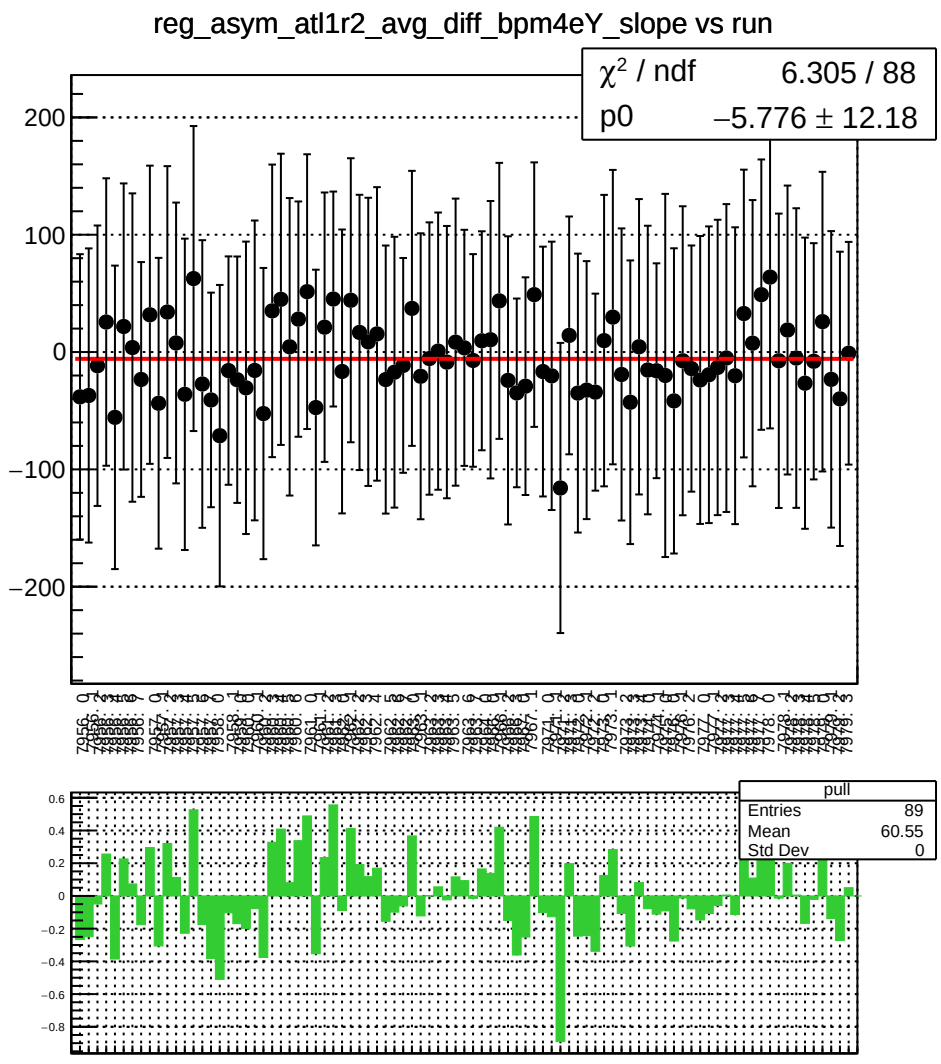

pull1D
Entries 89
Mean 0.061
Std Dev 0.6875

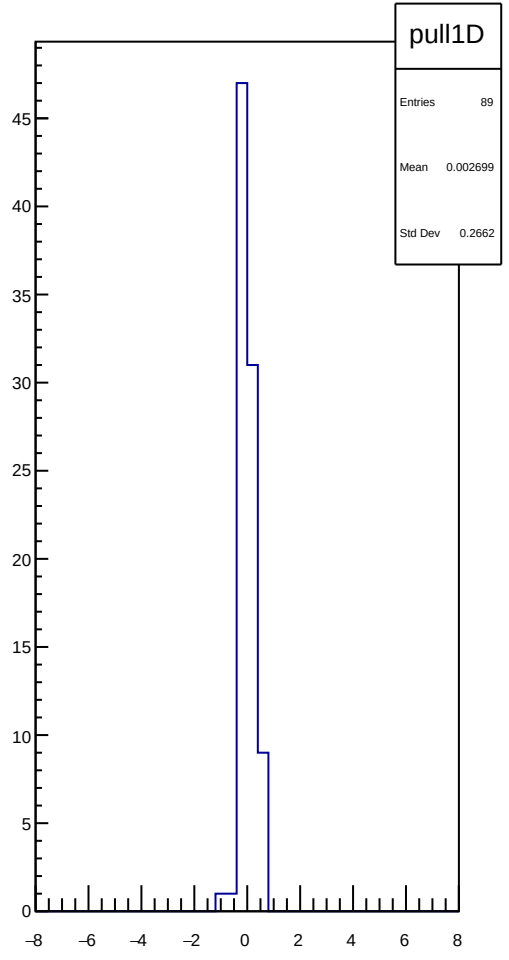

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.468 / 88
p0 52.5 ± 10.64
pull
Entries 89
Mean 282.3
Std Dev 0

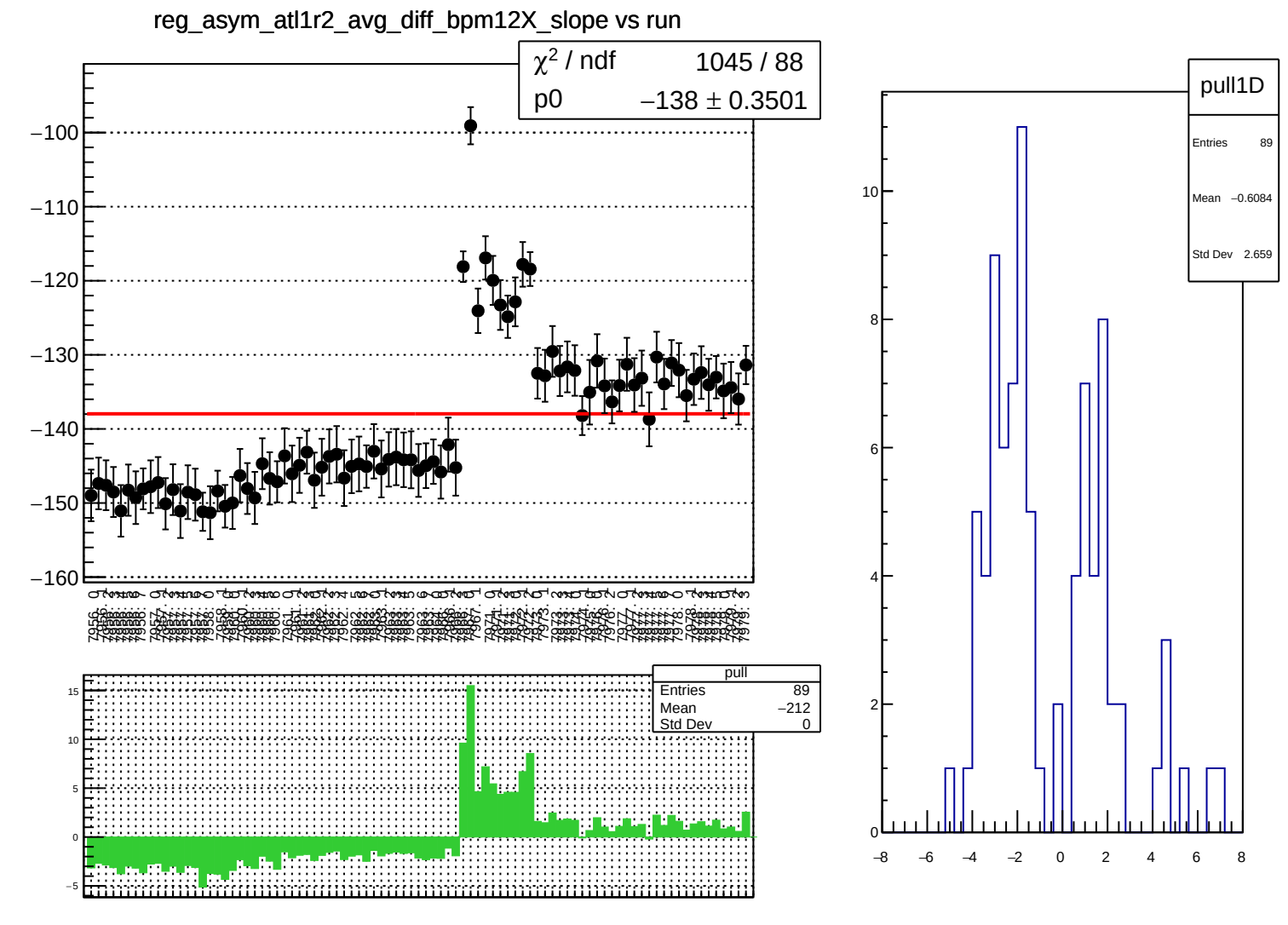

pull1D
Entries 89
Mean −0.0008943
Std Dev 0.2696

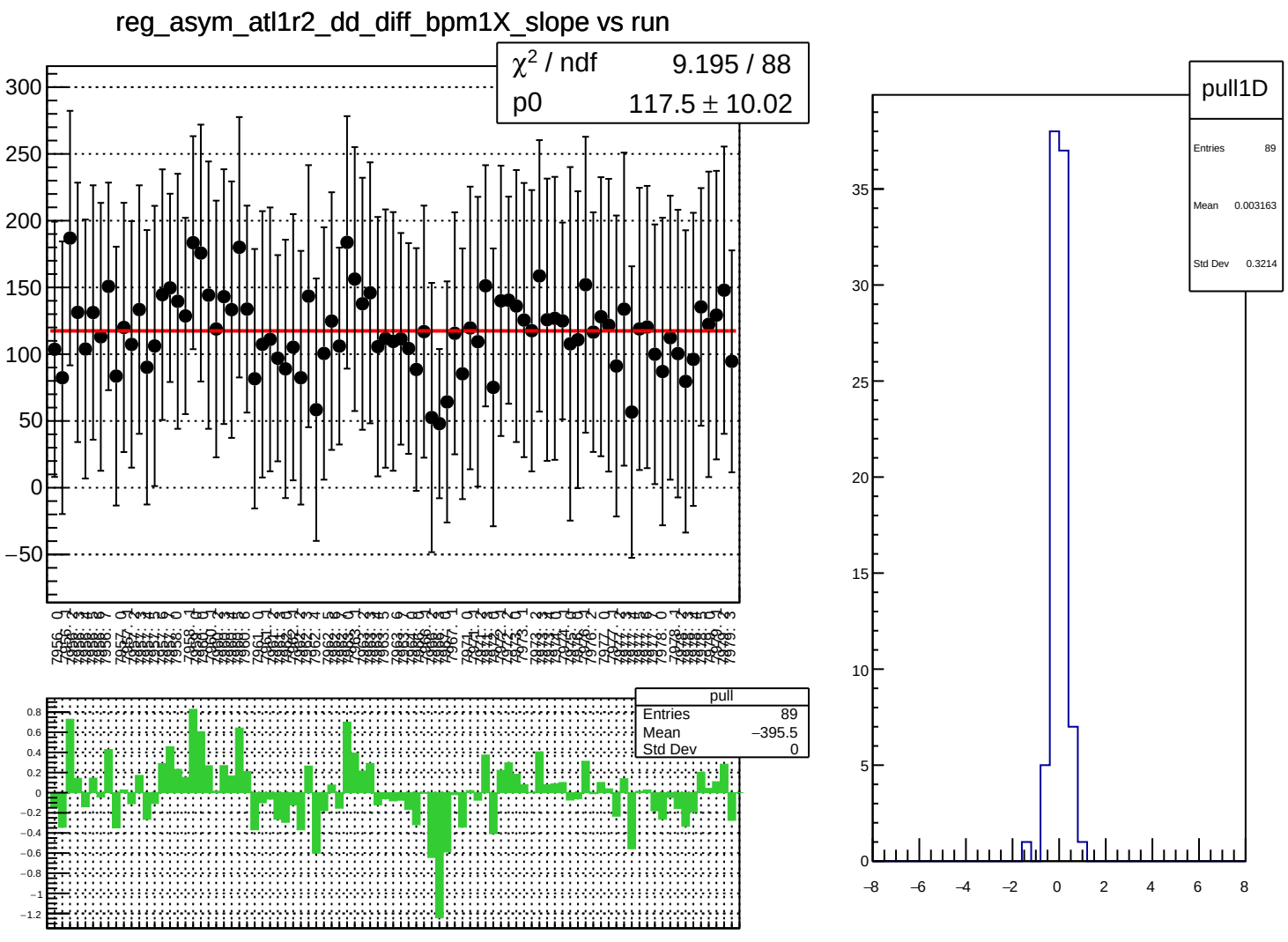

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.96 / 88
p0 177 ± 9.046
pull
Entries 89
Mean 84.19
Std Dev 0

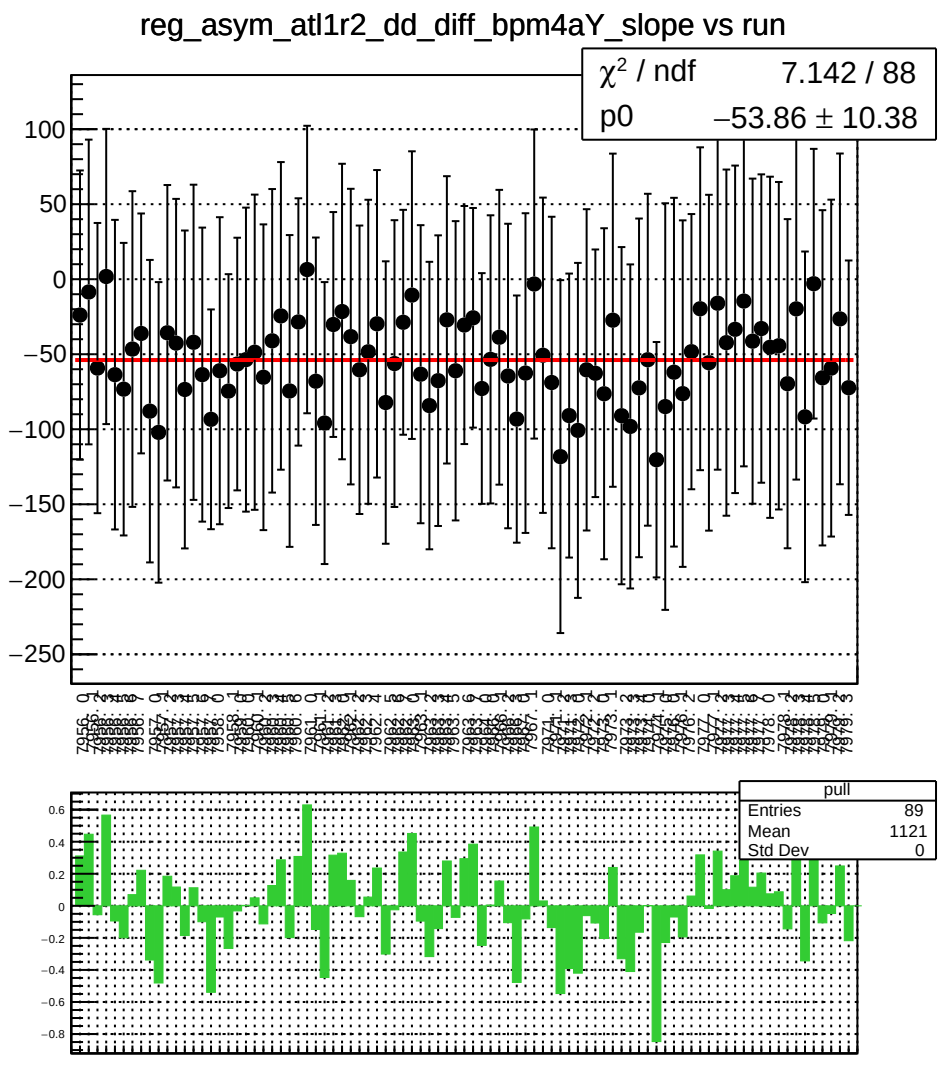

pull1D
Entries 89
Mean −0.05743
Std Dev 0.6759

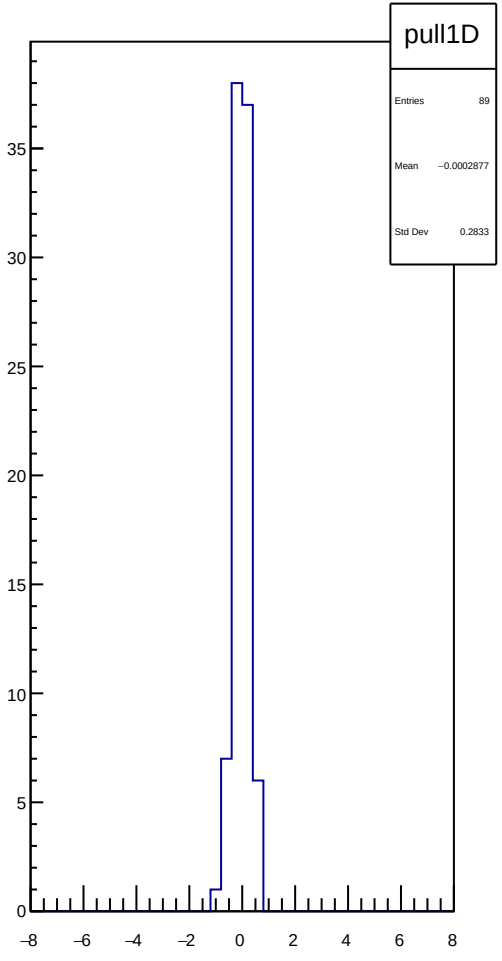

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.305 / 88
p0 −5.776 ± 12.18
200
100
0
−100
−200
pull
Entries 89
Mean 60.55
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

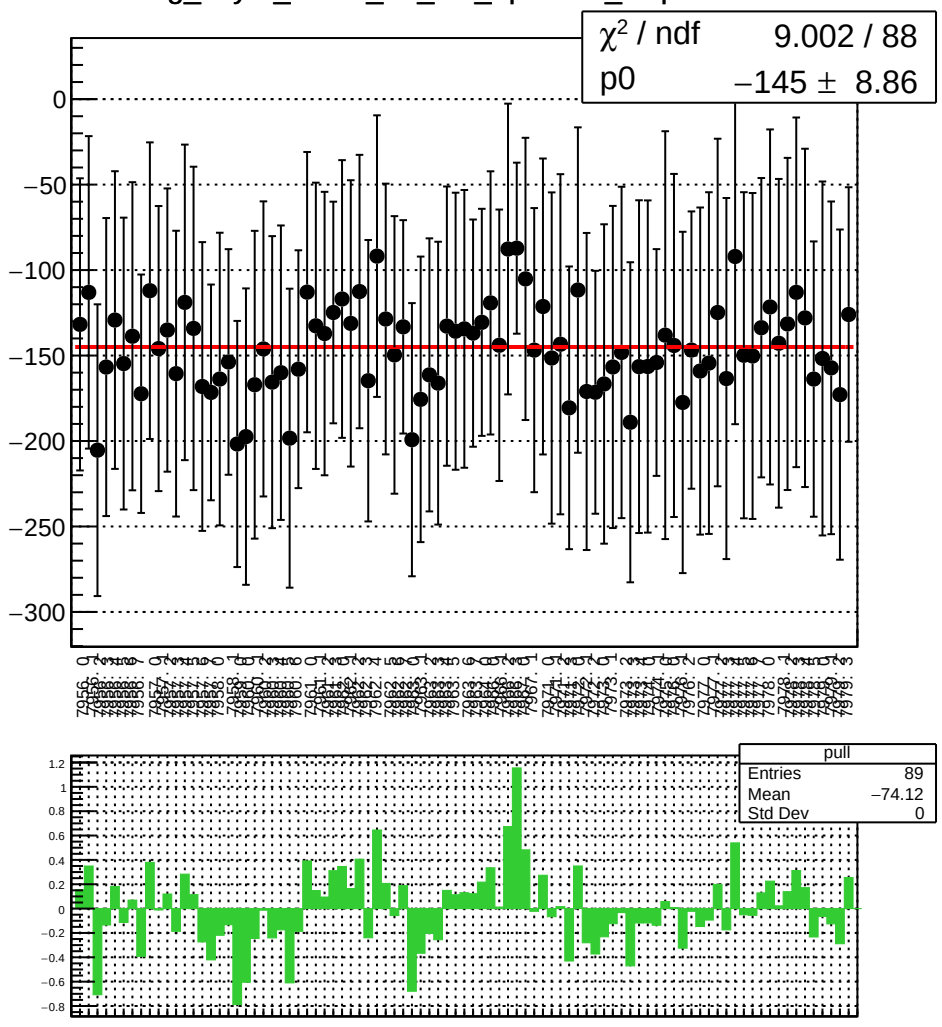

pull1D
Entries 89
Mean 0.002699
Std Dev 0.2662
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

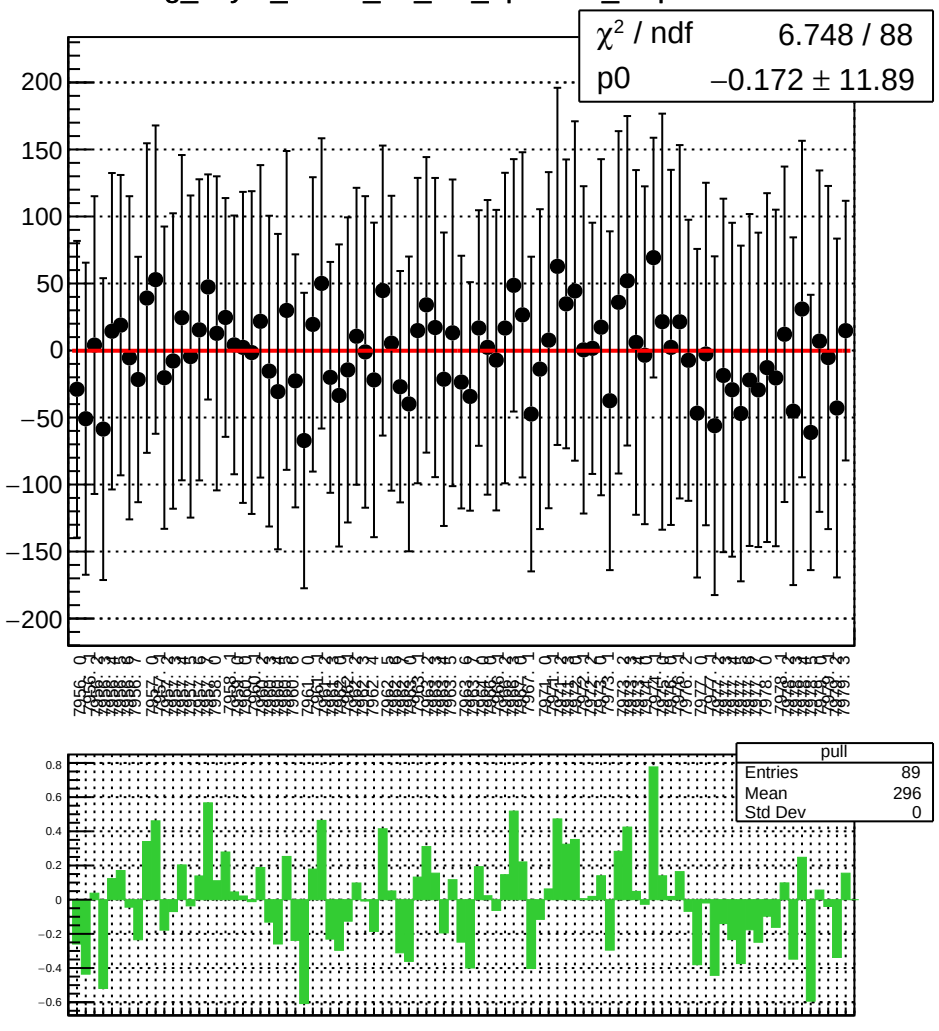

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 1045 / 88
p0 −138 ± 0.3501
pull
Entries 89
Mean −212
Std Dev 0
pull1D
Entries 89
Mean −0.6084
Std Dev 2.659

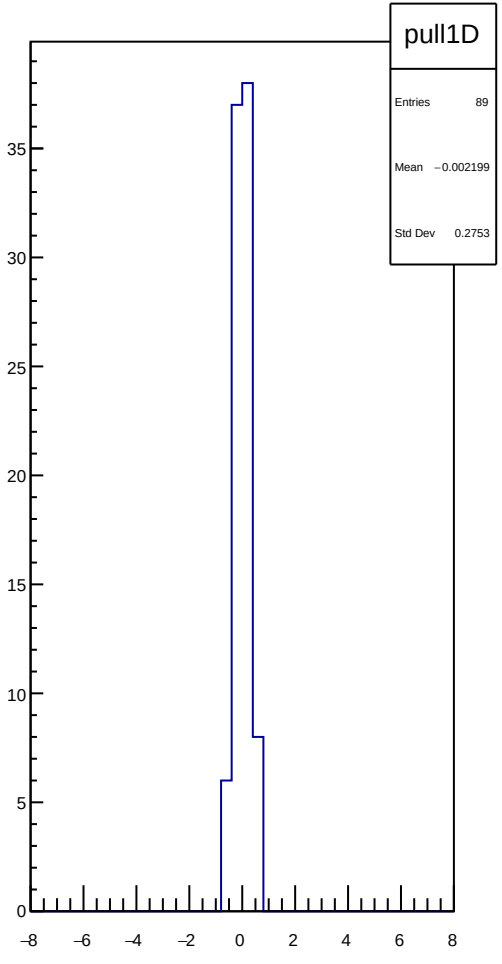

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 9.195 / 88
p0 117.5 ± 10.02
pull
Entries 89
Mean −395.5
Std Dev 0
pull1D
Entries 89
Mean 0.003163
Std Dev 0.3214

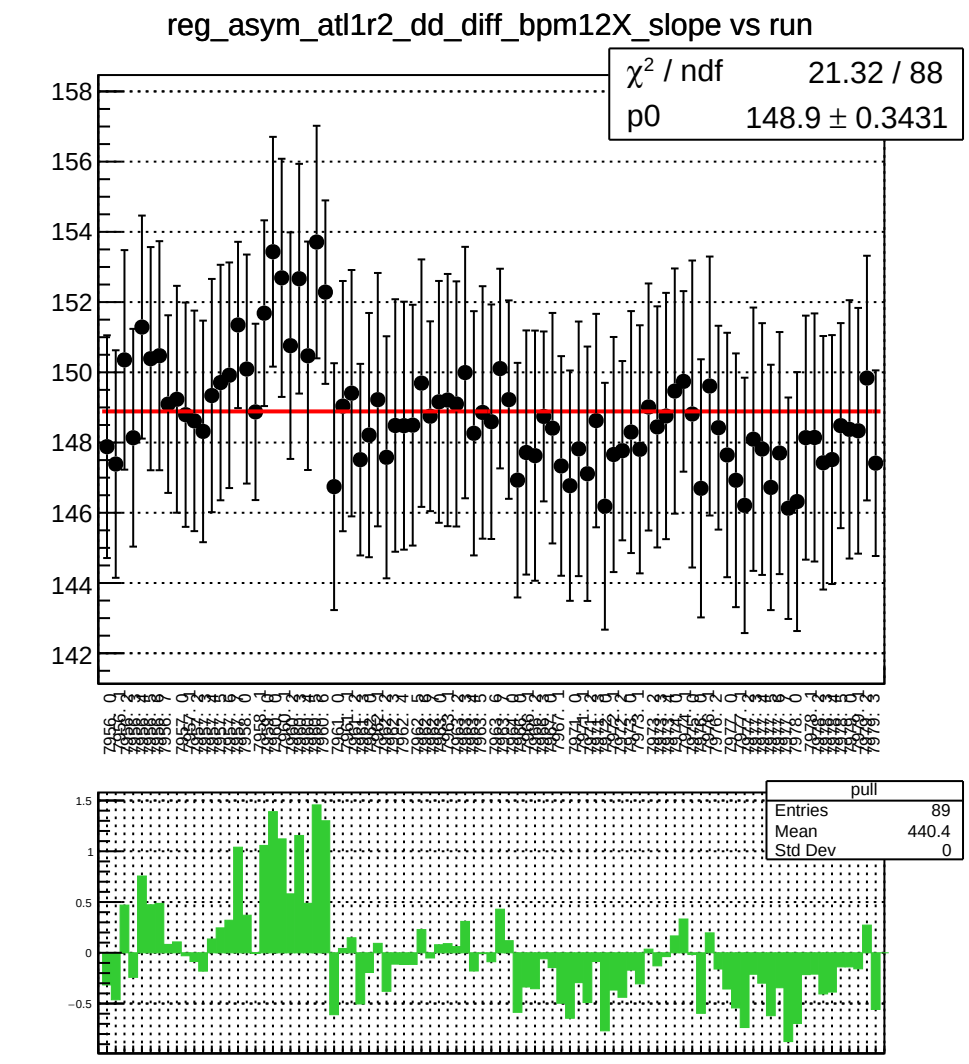

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.142 / 88
p0 −53.86 ± 10.38
pull
Entries 89
Mean 1121
Std Dev 0

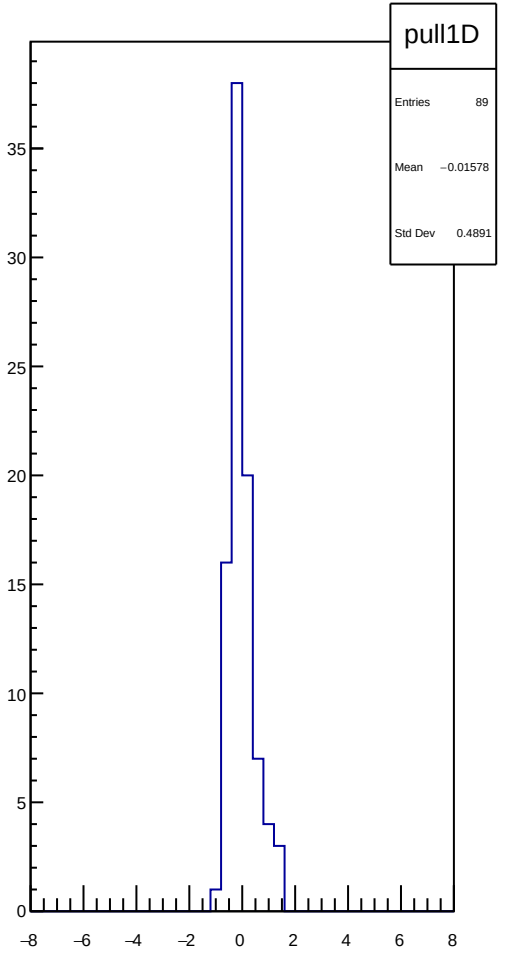

pull1D
Entries 89
Mean −0.0002877
Std Dev 0.2833

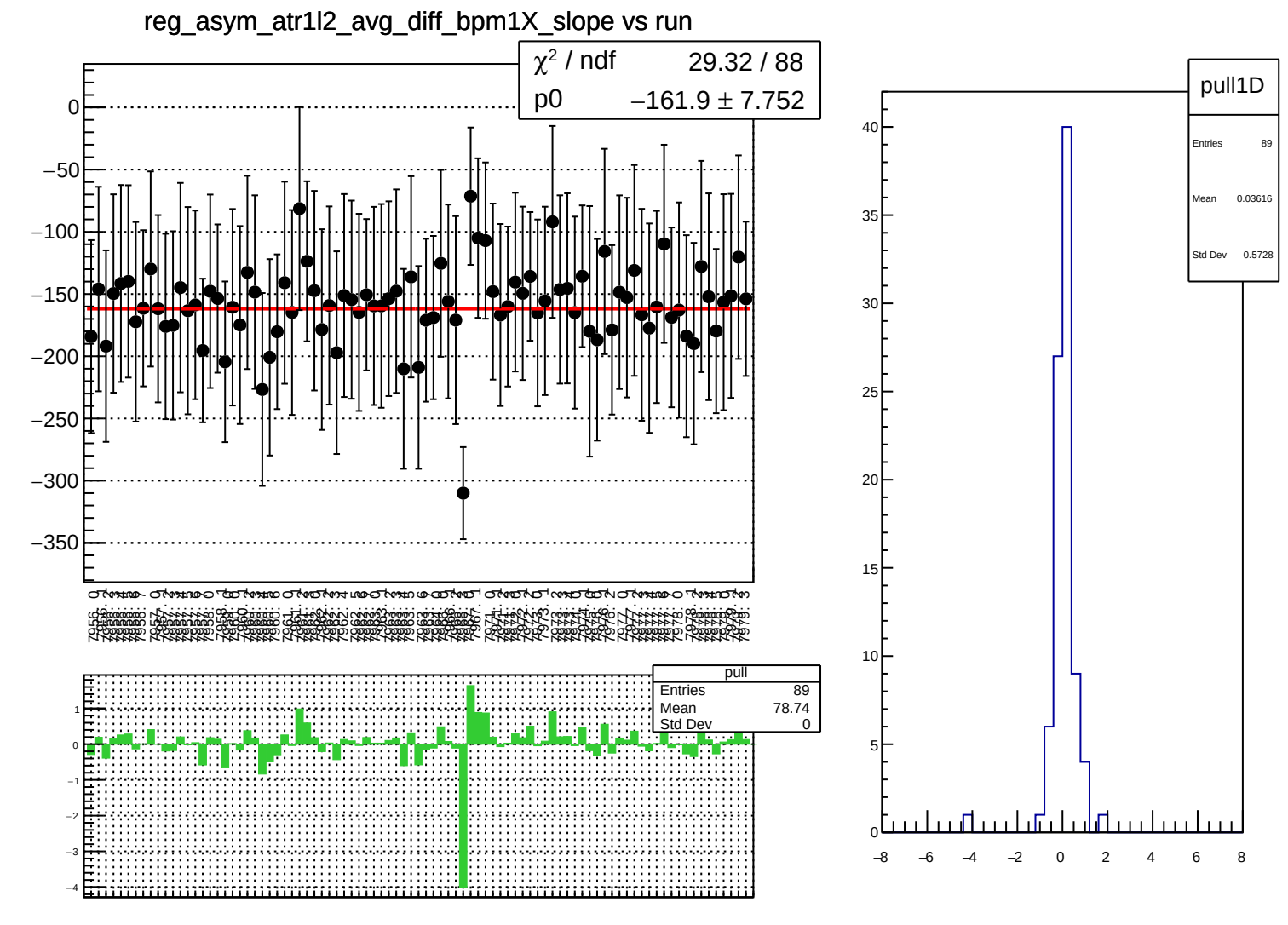

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.002 / 88
p0 −145 ± 8.86
pull
Entries 89
Mean −74.12
Std Dev 0
pull1D
Entries 89
Mean −0.00667
Std Dev 0.318

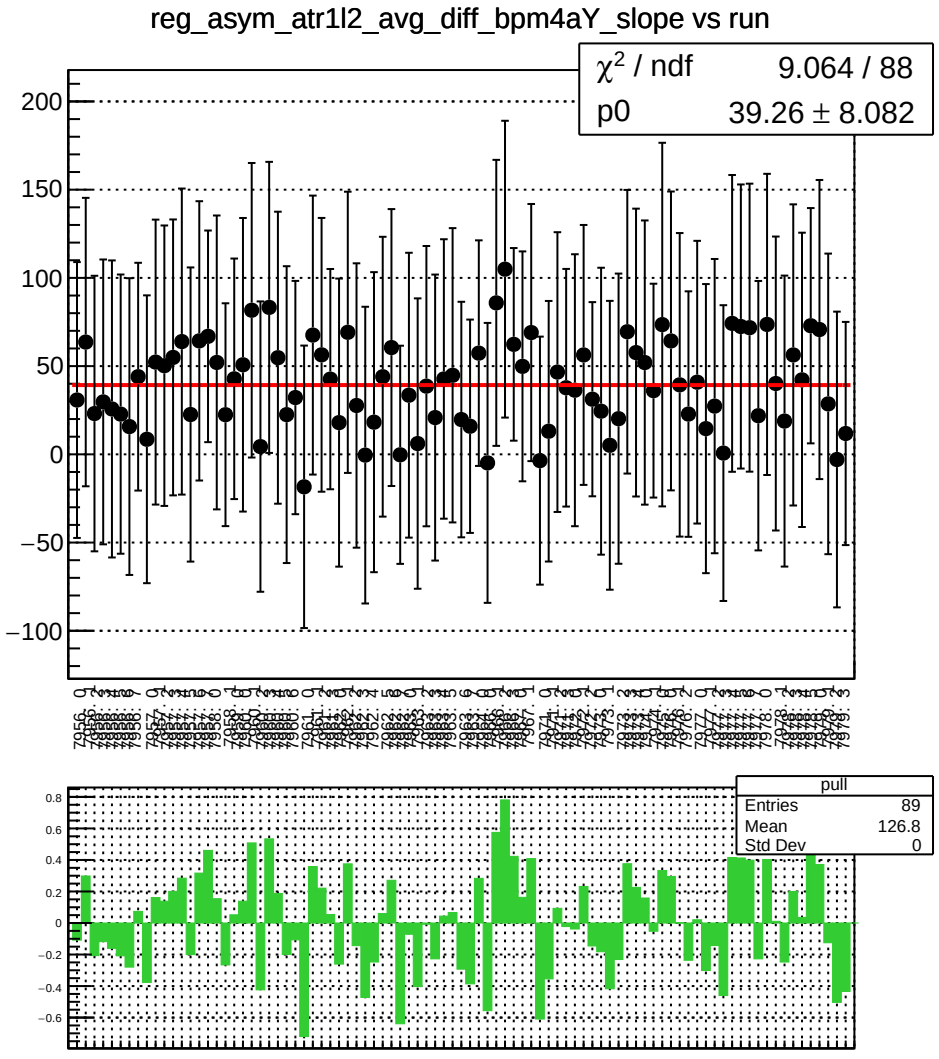

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.748 / 88
p0 −0.172 ± 11.89
pull
Entries 89
Mean 296
Std Dev 0

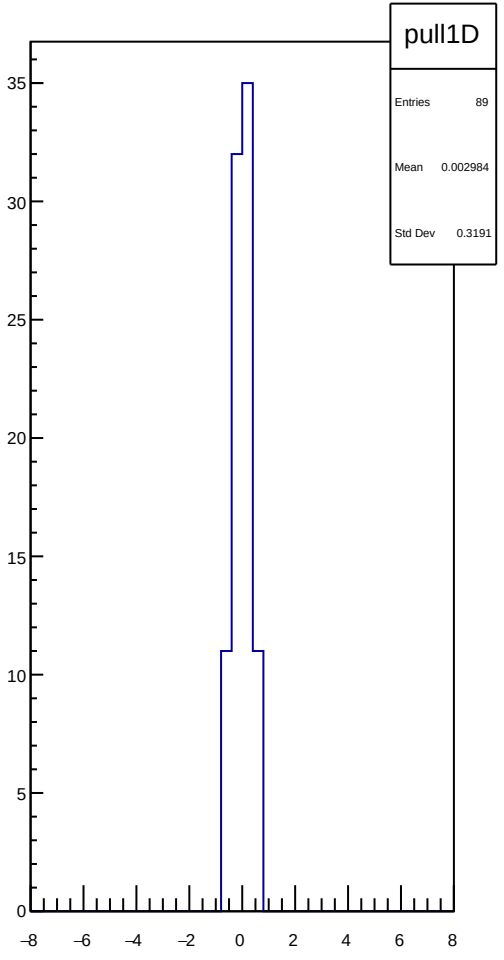

pull1D
Entries 89
Mean −0.002199
Std Dev 0.2753

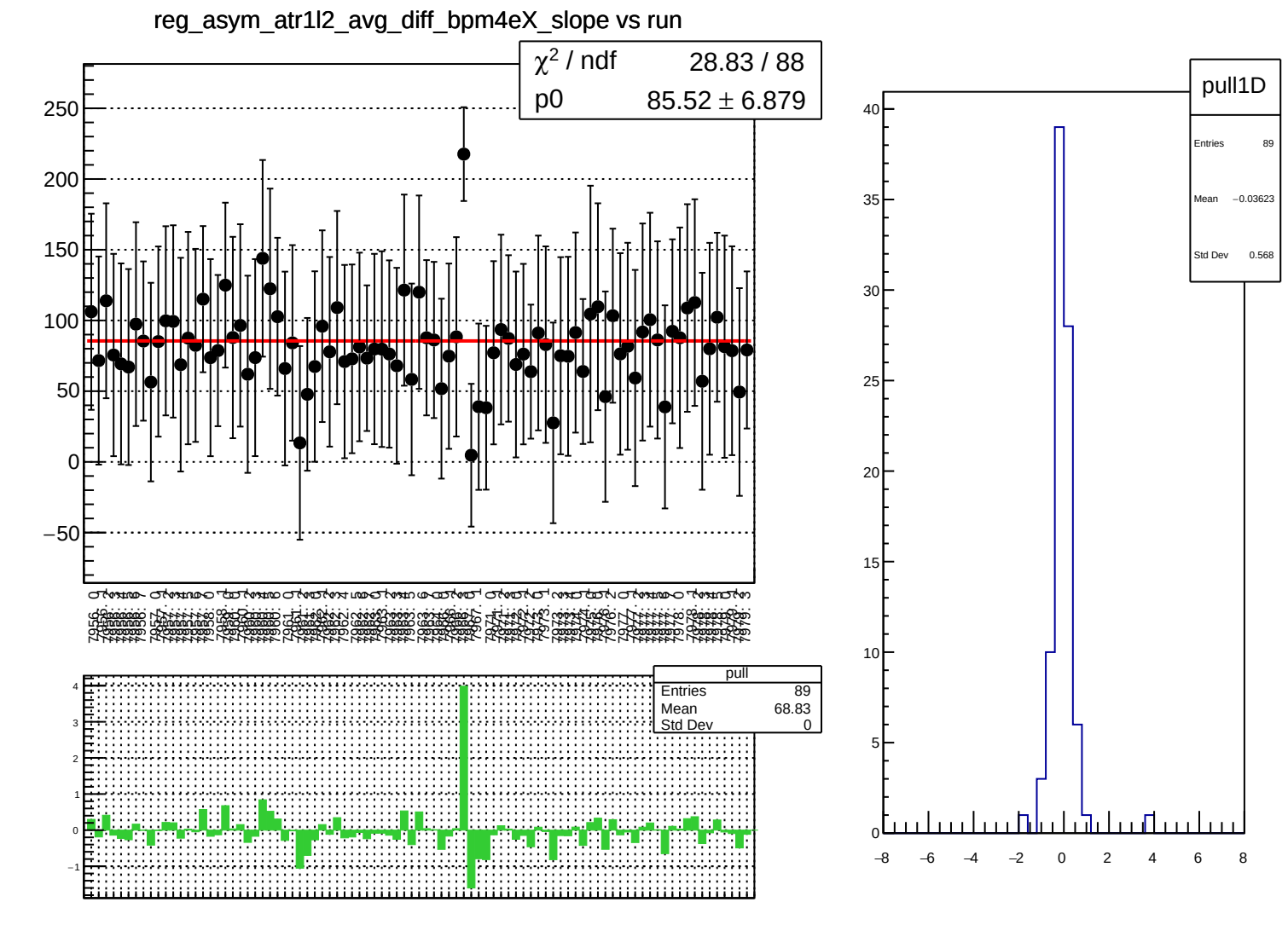

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 21.32 / 88
p0 148.9 ± 0.3431
158
156
154
152
150
148
146
144
142
pull
Entries 89
Mean 440.4
Std Dev 0
1.5
1
0.5
0
−0.5

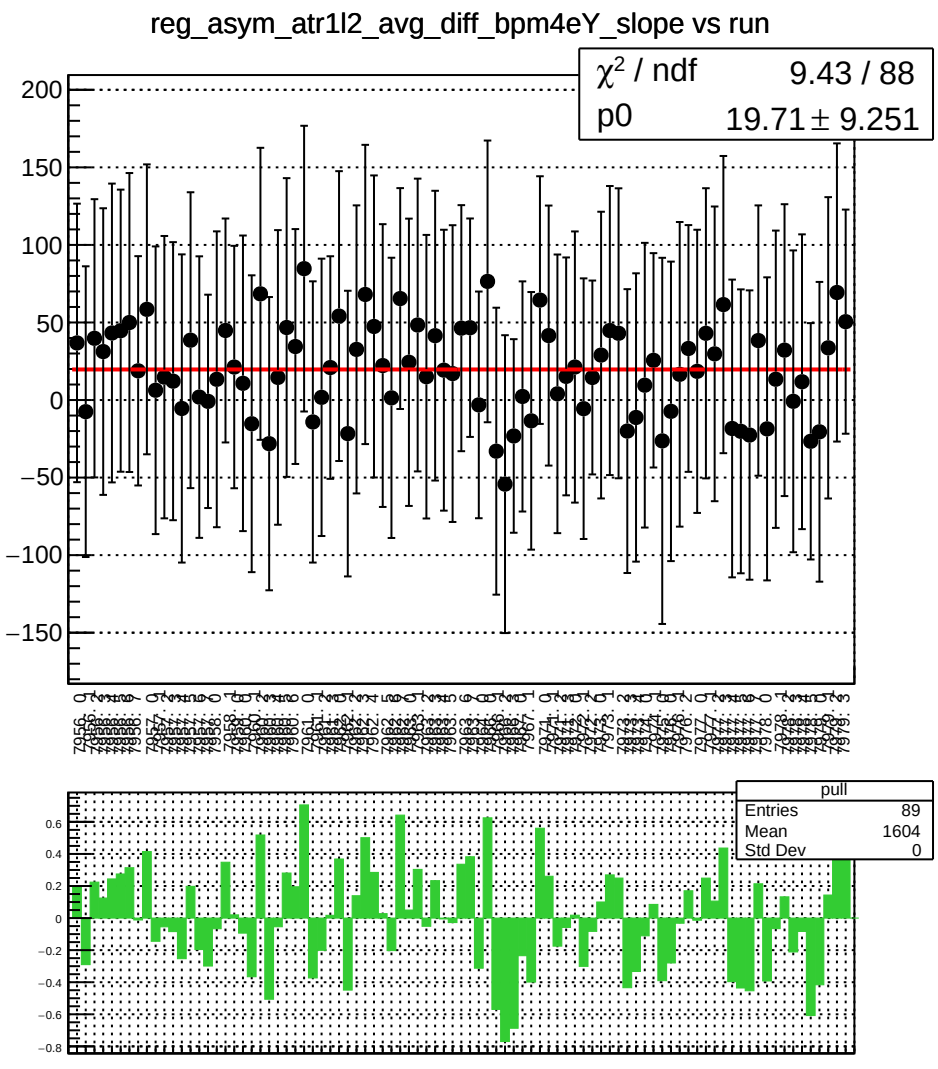

pull1D
Entries 89
Mean −0.01578
Std Dev 0.4891
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

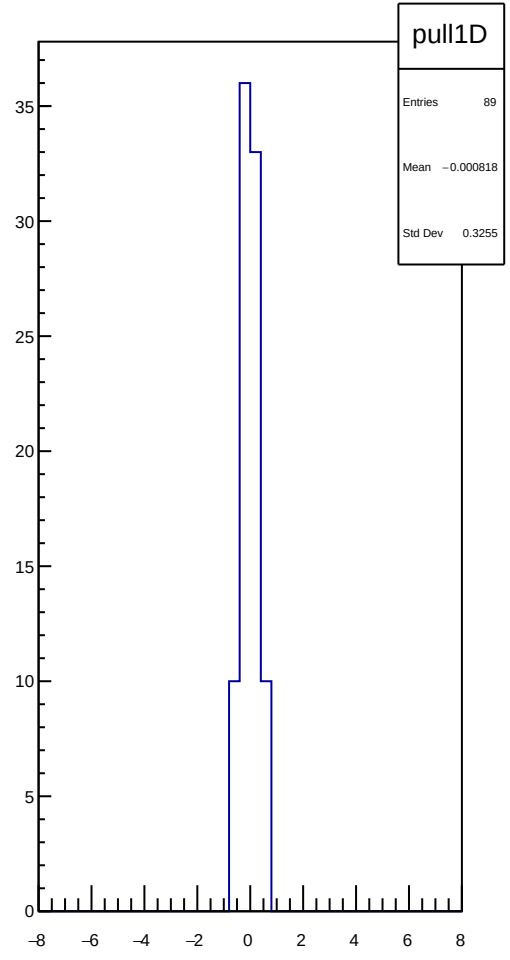

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 29.32 / 88
p0 −161.9 ± 7.752
pull
Entries 89
Mean 78.74
Std Dev 0
pull1D
Entries 89
Mean 0.03616
Std Dev 0.5728

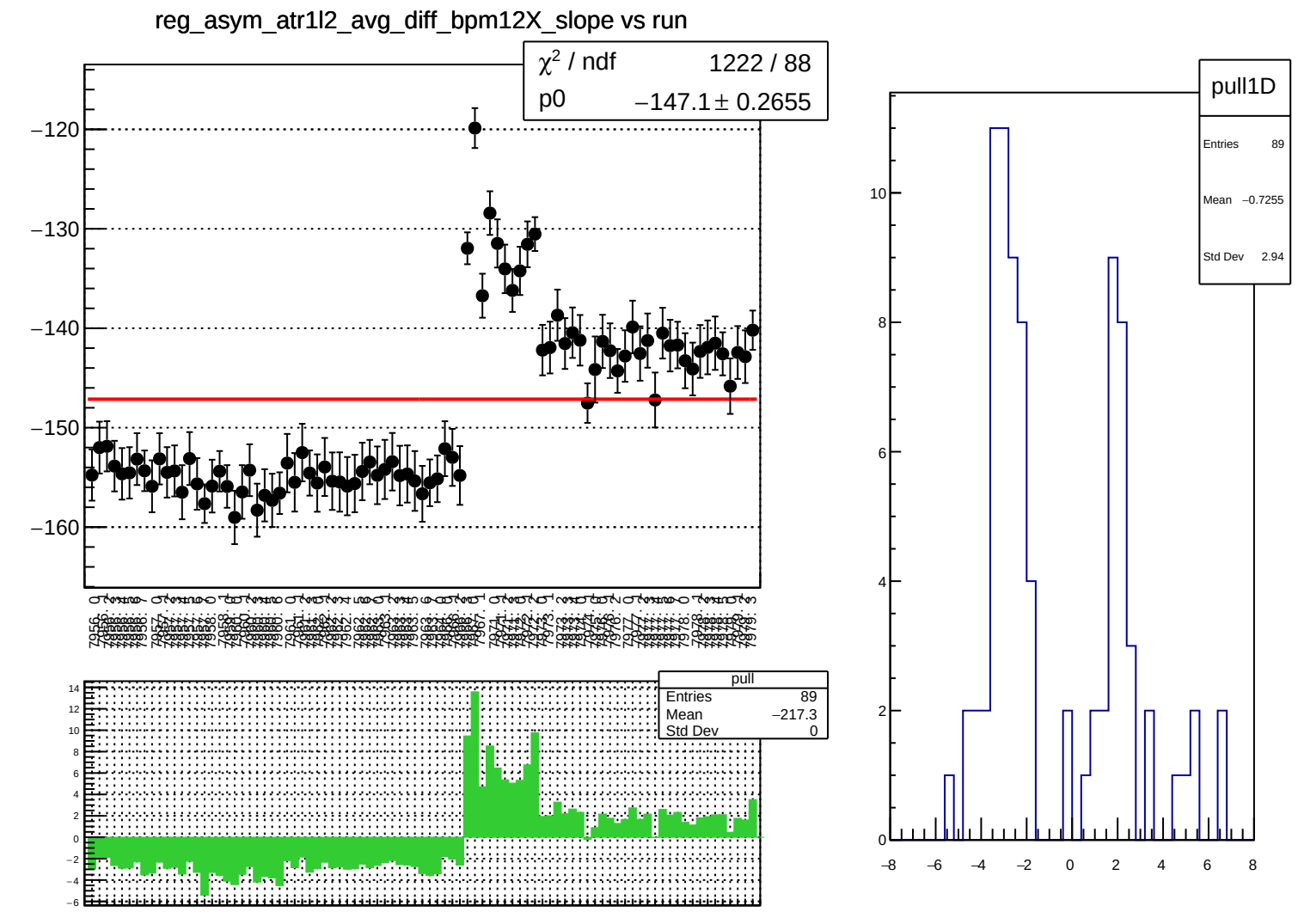

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.064 / 88
p0 39.26 ± 8.082
pull
Entries 89
Mean 126.8
Std Dev 0

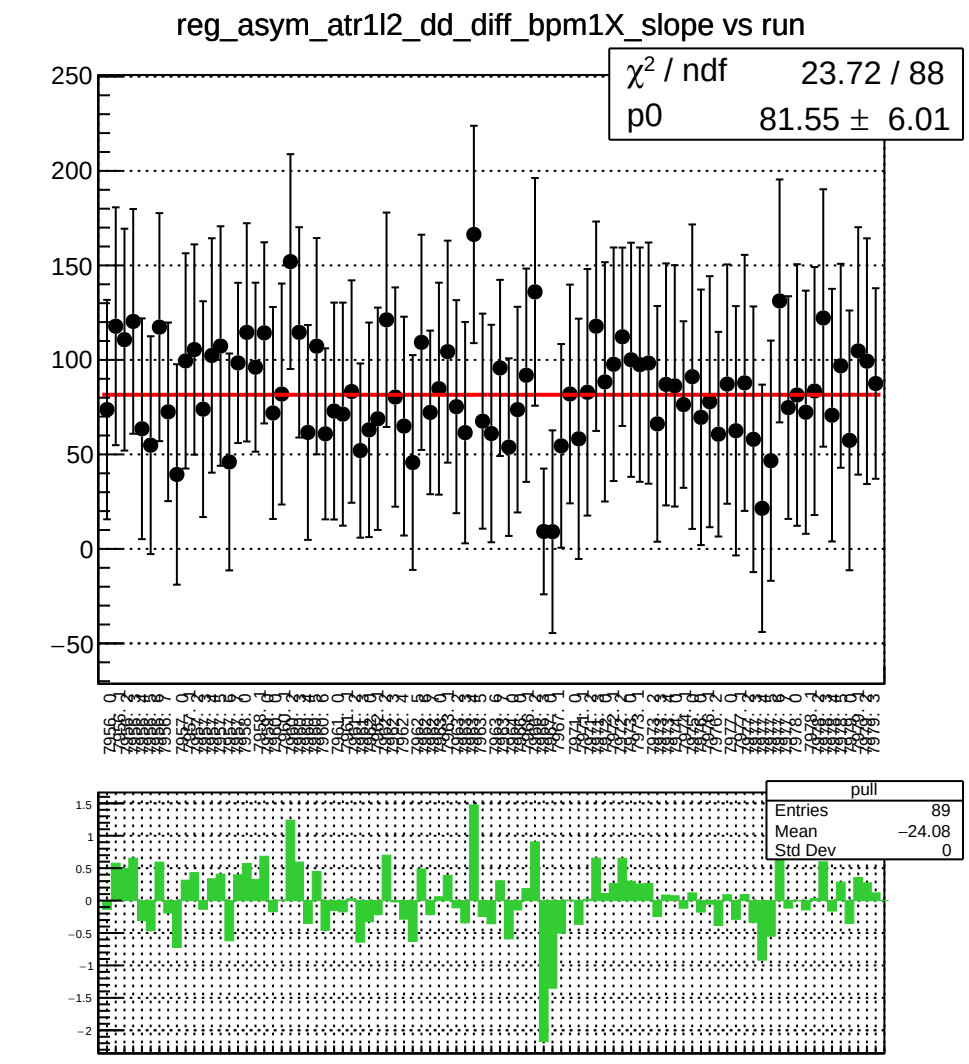

pull1D
Entries 89
Mean 0.002984
Std Dev 0.3191

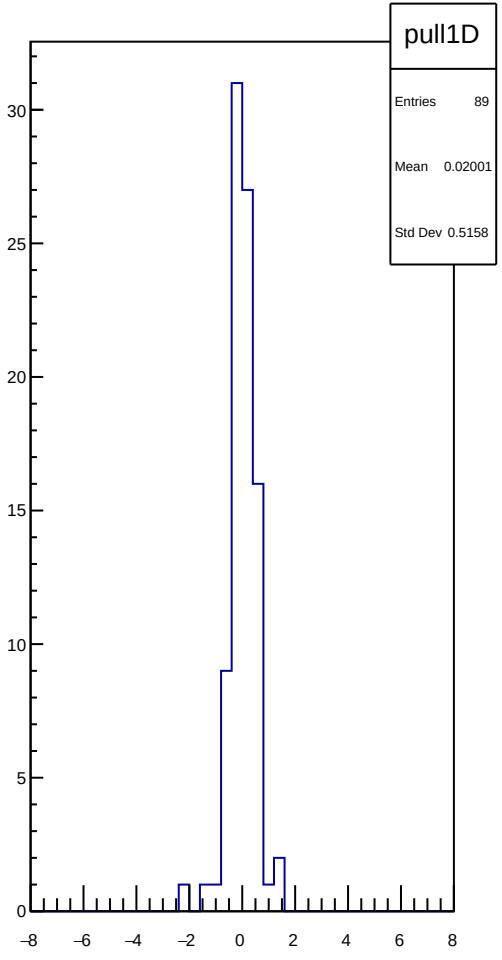

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.83 / 88
p0 85.52 ± 6.879
pull
Entries 89
Mean 68.83
Std Dev 0
pull1D
Entries 89
Mean −0.03623
Std Dev 0.568

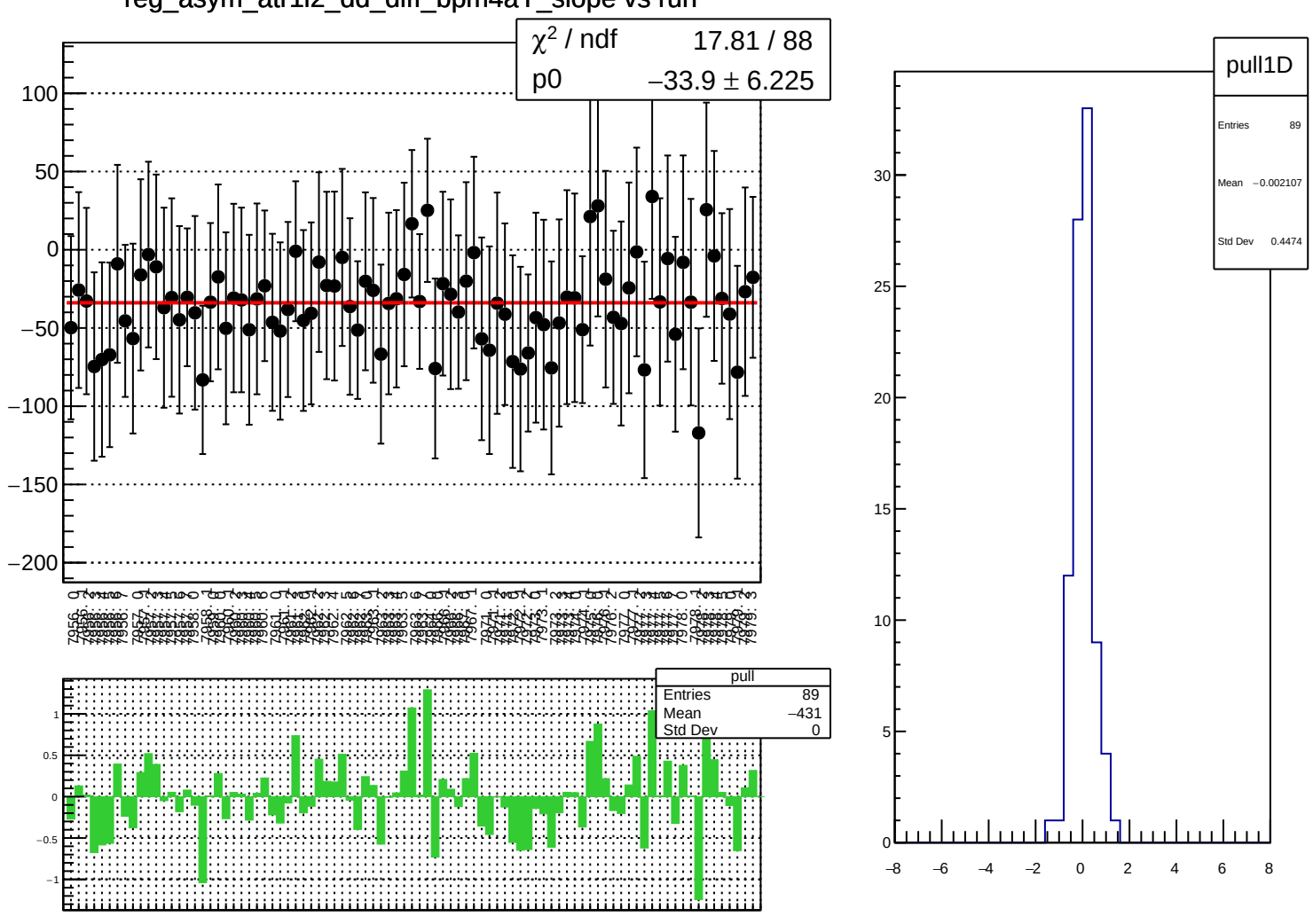

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.43 / 88
p0 19.71 ± 9.251
pull
Entries 89
Mean 1604
Std Dev 0

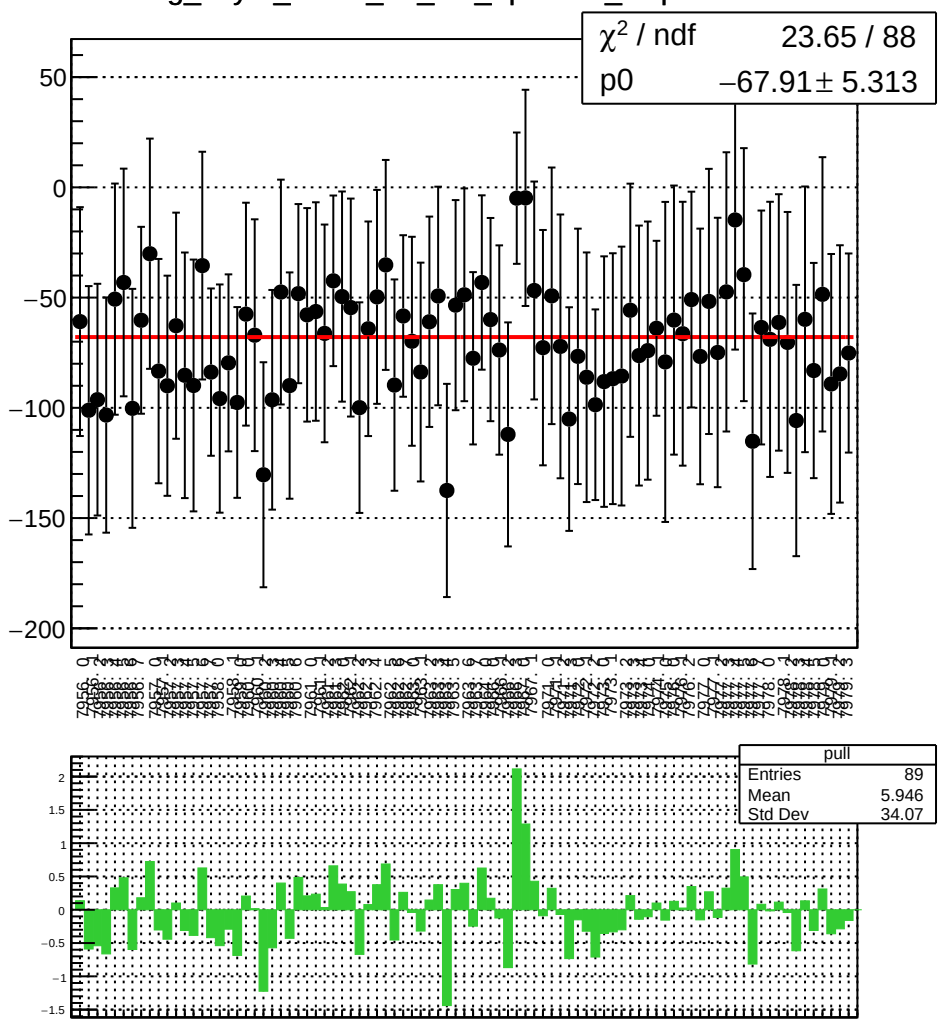

pull1D
Entries 89
Mean −0.000818
Std Dev 0.3255

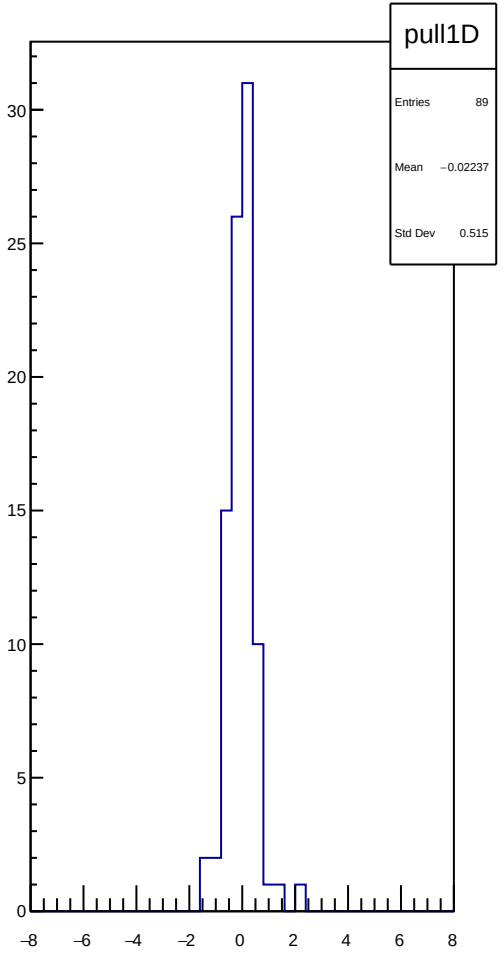

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 1222 / 88
p0 −147.1 ± 0.2655
−120
−130
−140
−150
−160
pull
Entries 89
Mean −217.3
Std Dev 0
14
12
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 89
Mean −0.7255
Std Dev 2.94
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

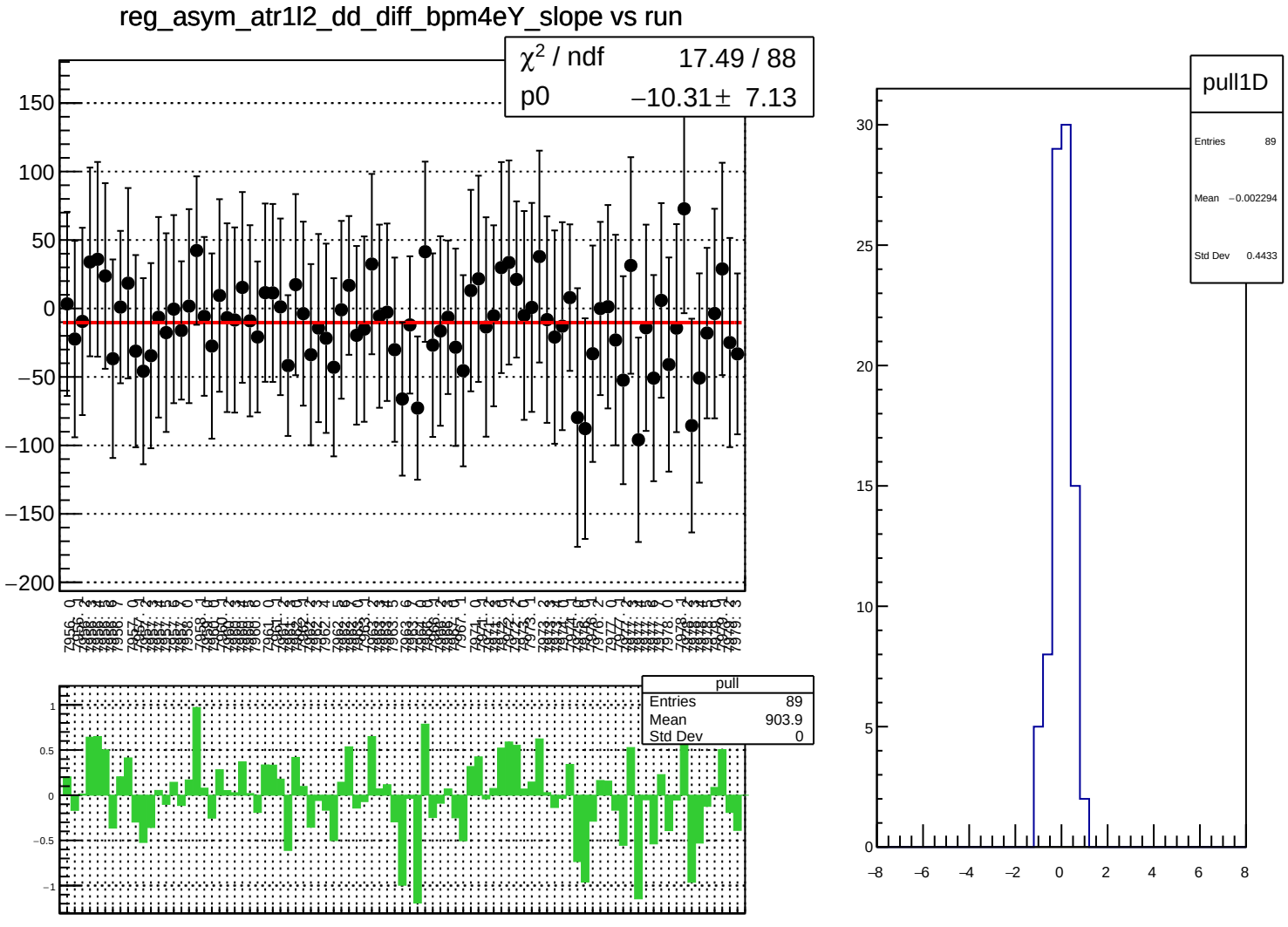

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 23.72 / 88
p0 81.55 ± 6.01
pull
Entries 89
Mean −24.08
Std Dev 0

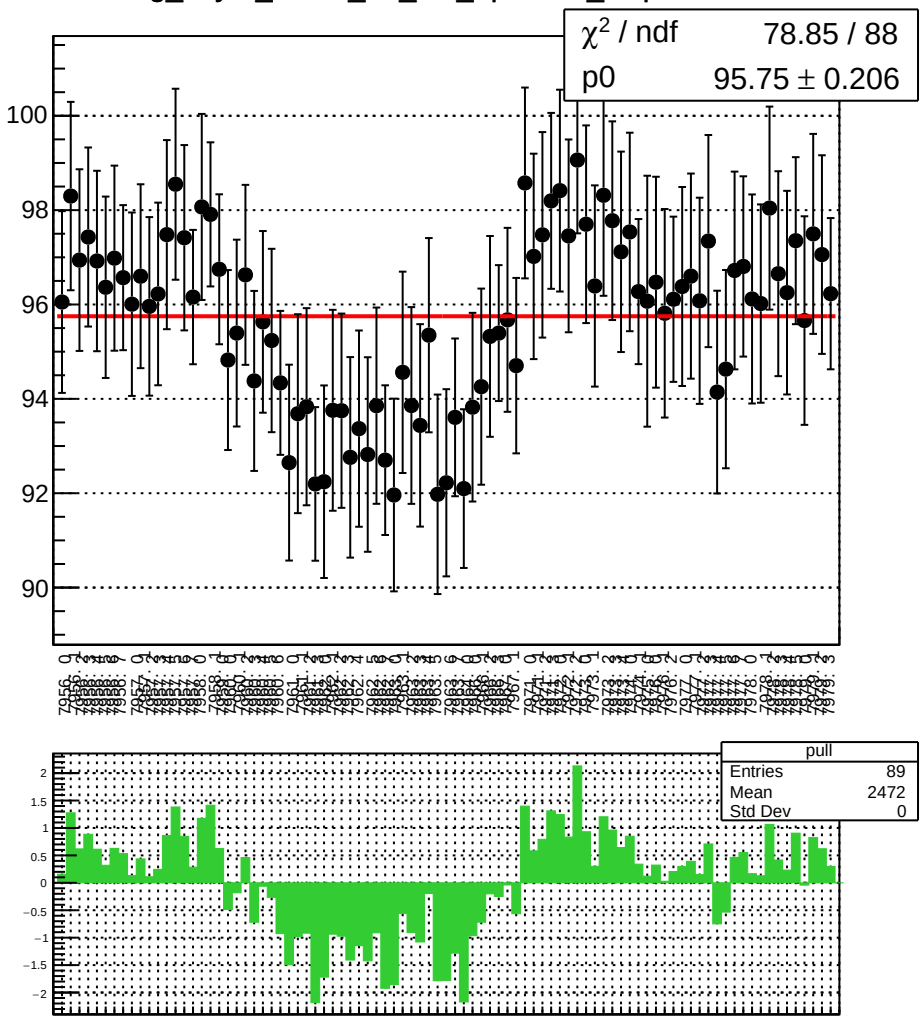

pull1D
Entries 89
Mean 0.02001
Std Dev 0.5158

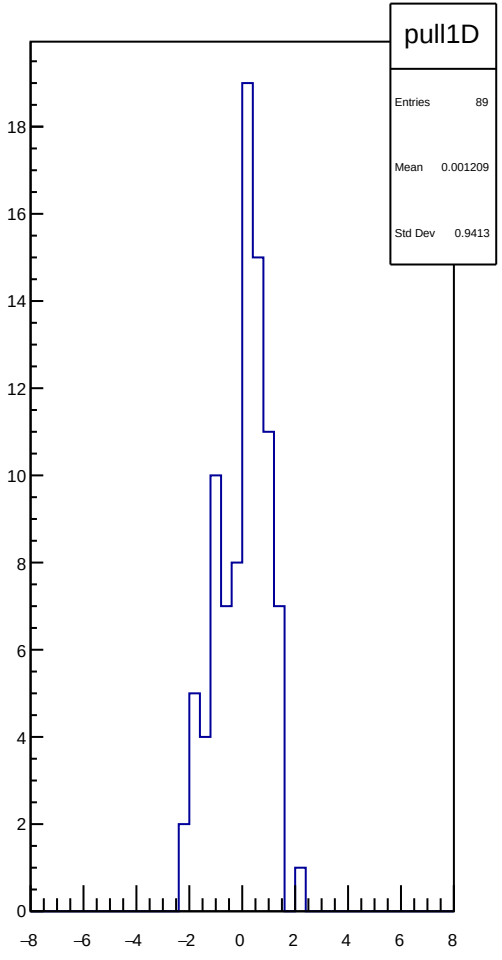

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.81 / 88
p0 −33.9 ± 6.225
pull
Entries 89
Mean −431
Std Dev 0
pull1D
Entries 89
Mean −0.002107
Std Dev 0.4474

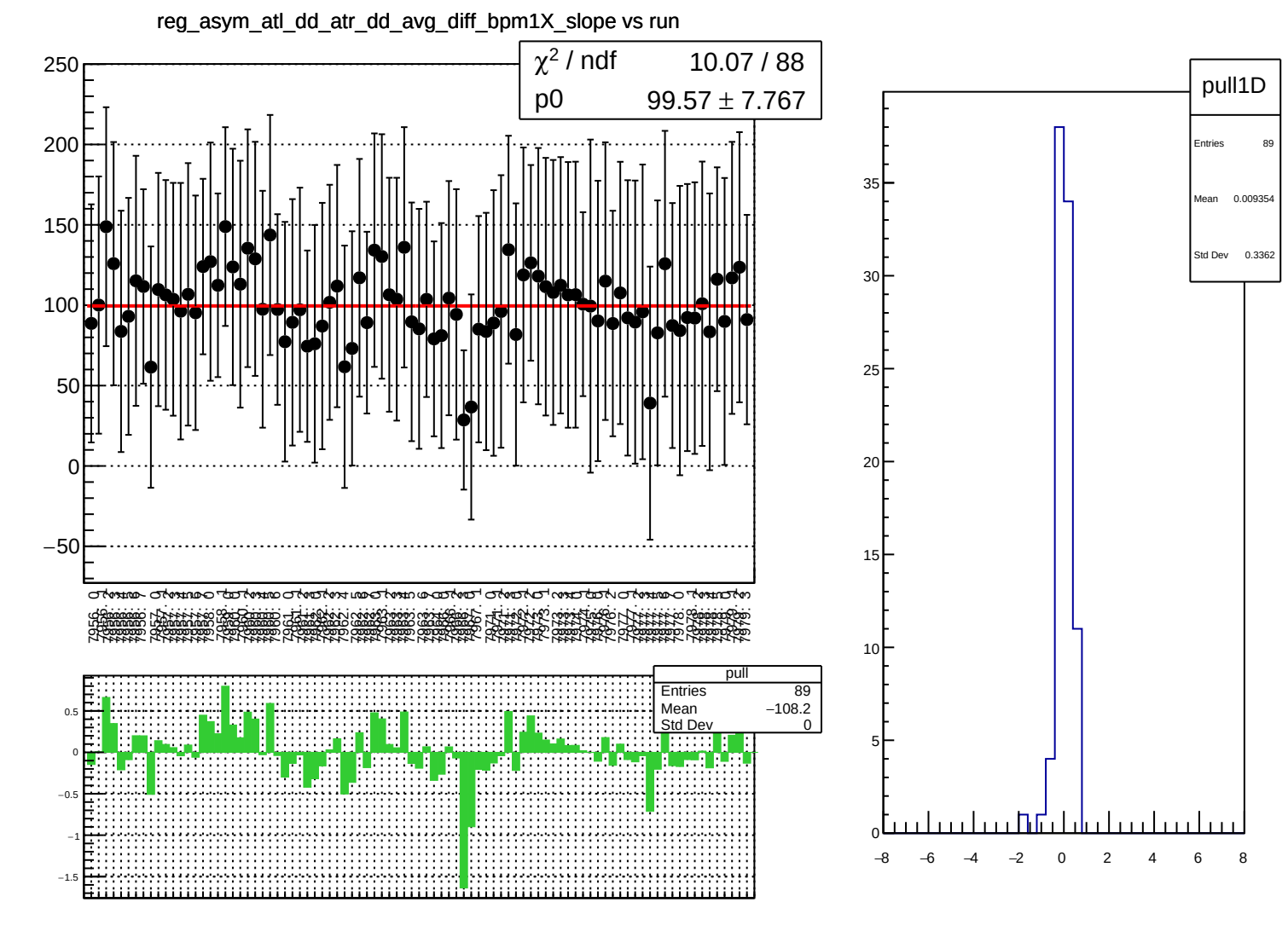

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.65 / 88
p0 −67.91 ± 5.313
pull
Entries 89
Mean 5.946
Std Dev 34.07

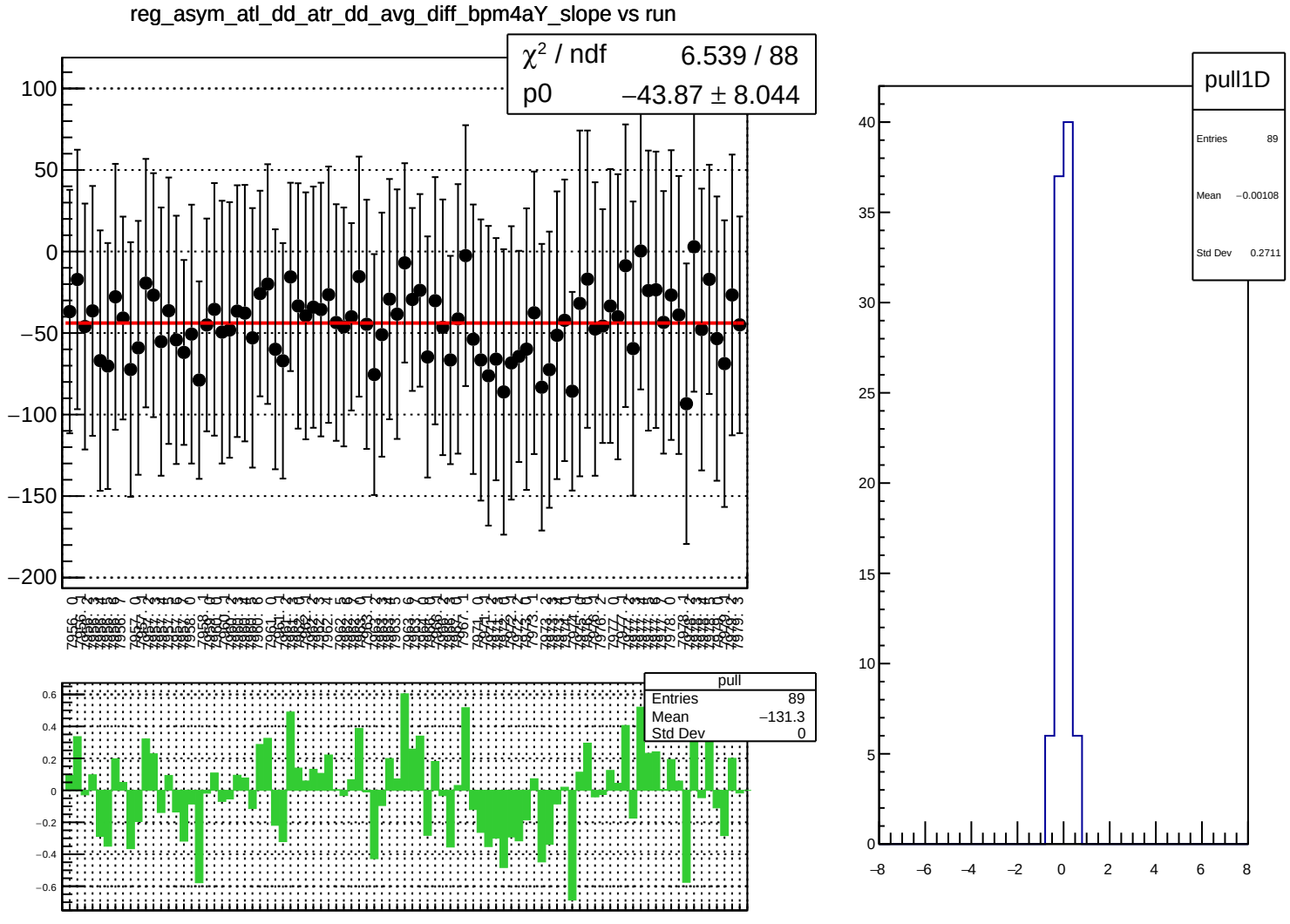

pull1D
Entries 89
Mean −0.02237
Std Dev 0.515

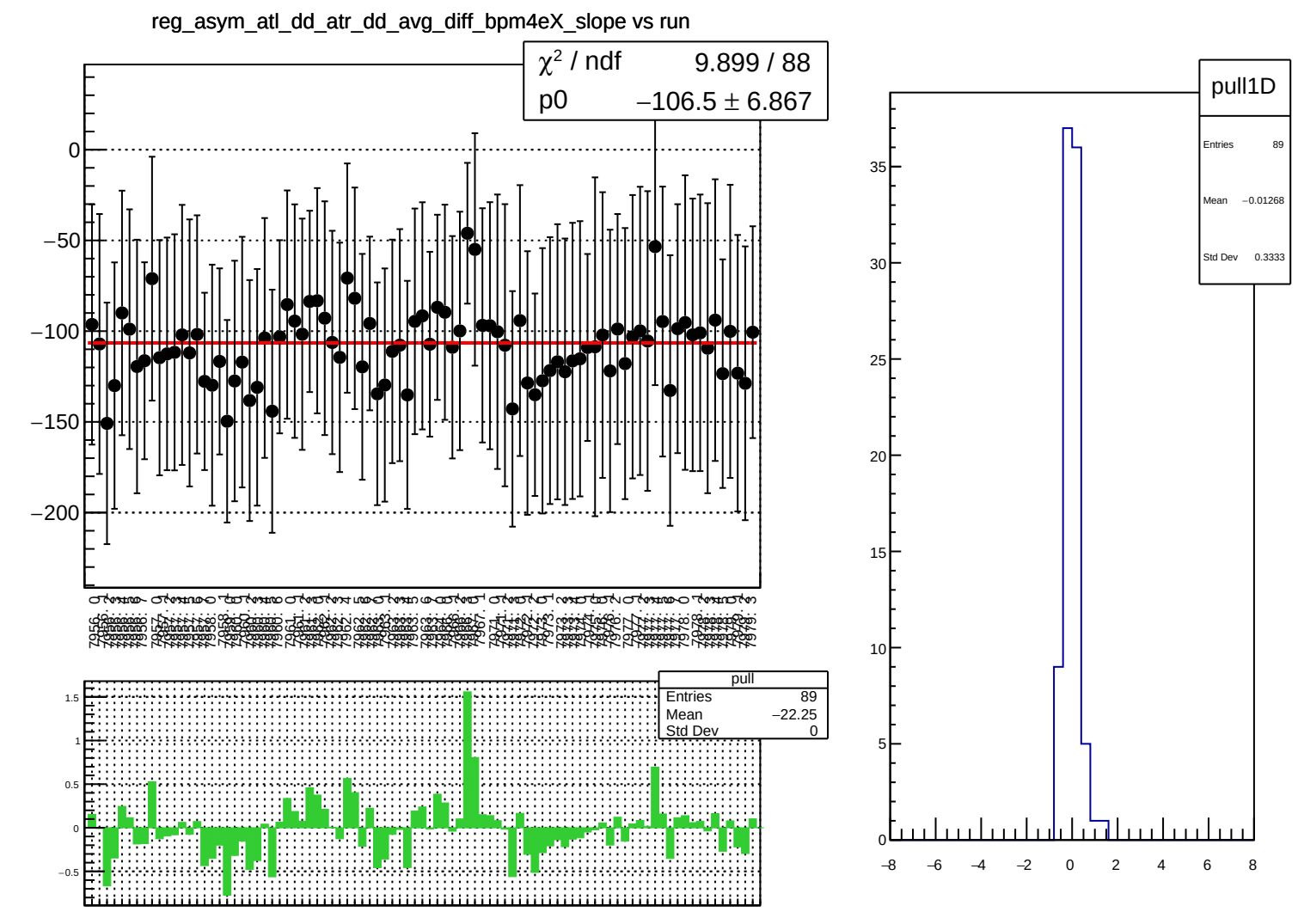

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.49 / 88
p0 −10.31 ± 7.13
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 903.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.002294
Std Dev 0.4433
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

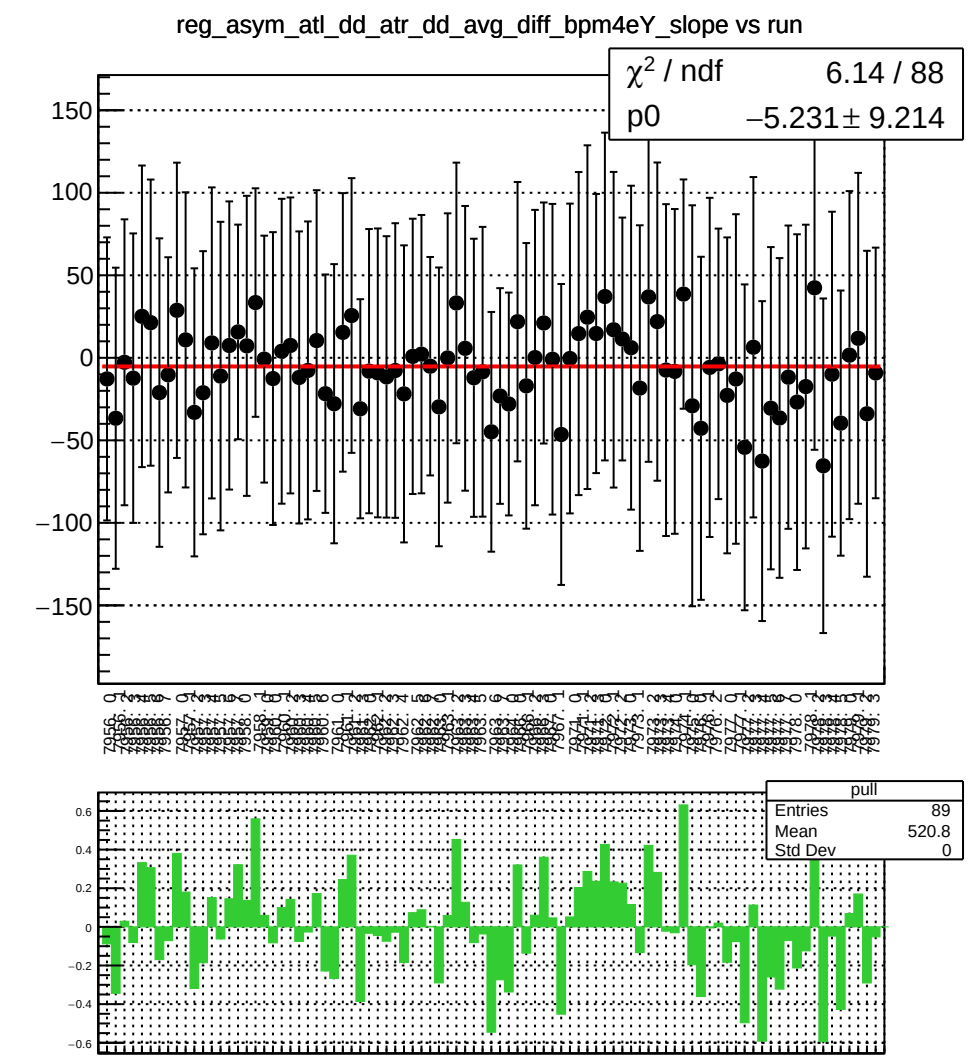

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 78.85 / 88
p0 95.75 ± 0.206
pull
Entries 89
Mean 2472
Std Dev 0

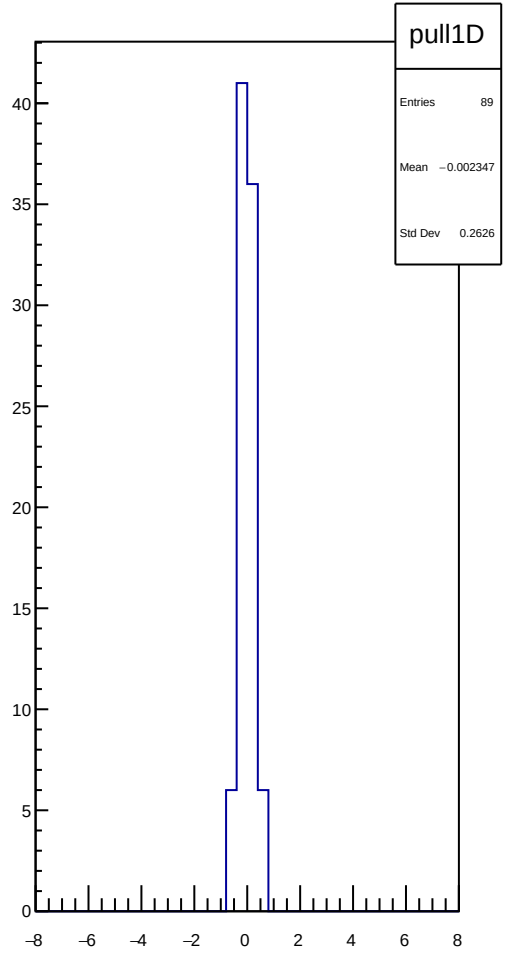

pull1D
Entries 89
Mean 0.001209
Std Dev 0.9413

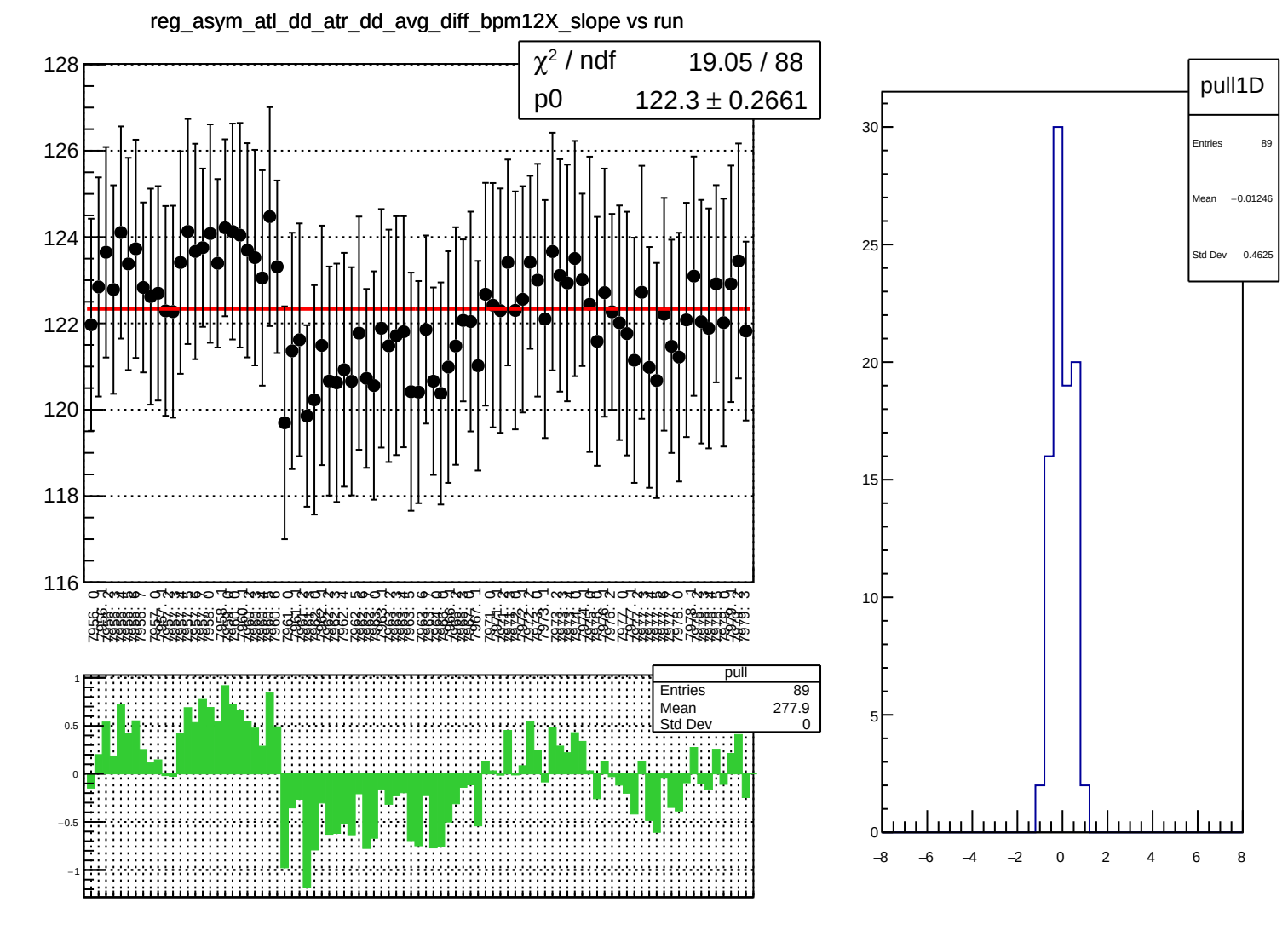

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 10.07 / 88
p0 99.57 ± 7.767
pull
Entries 89
Mean −108.2
Std Dev 0
pull1D
Entries 89
Mean 0.009354
Std Dev 0.3362

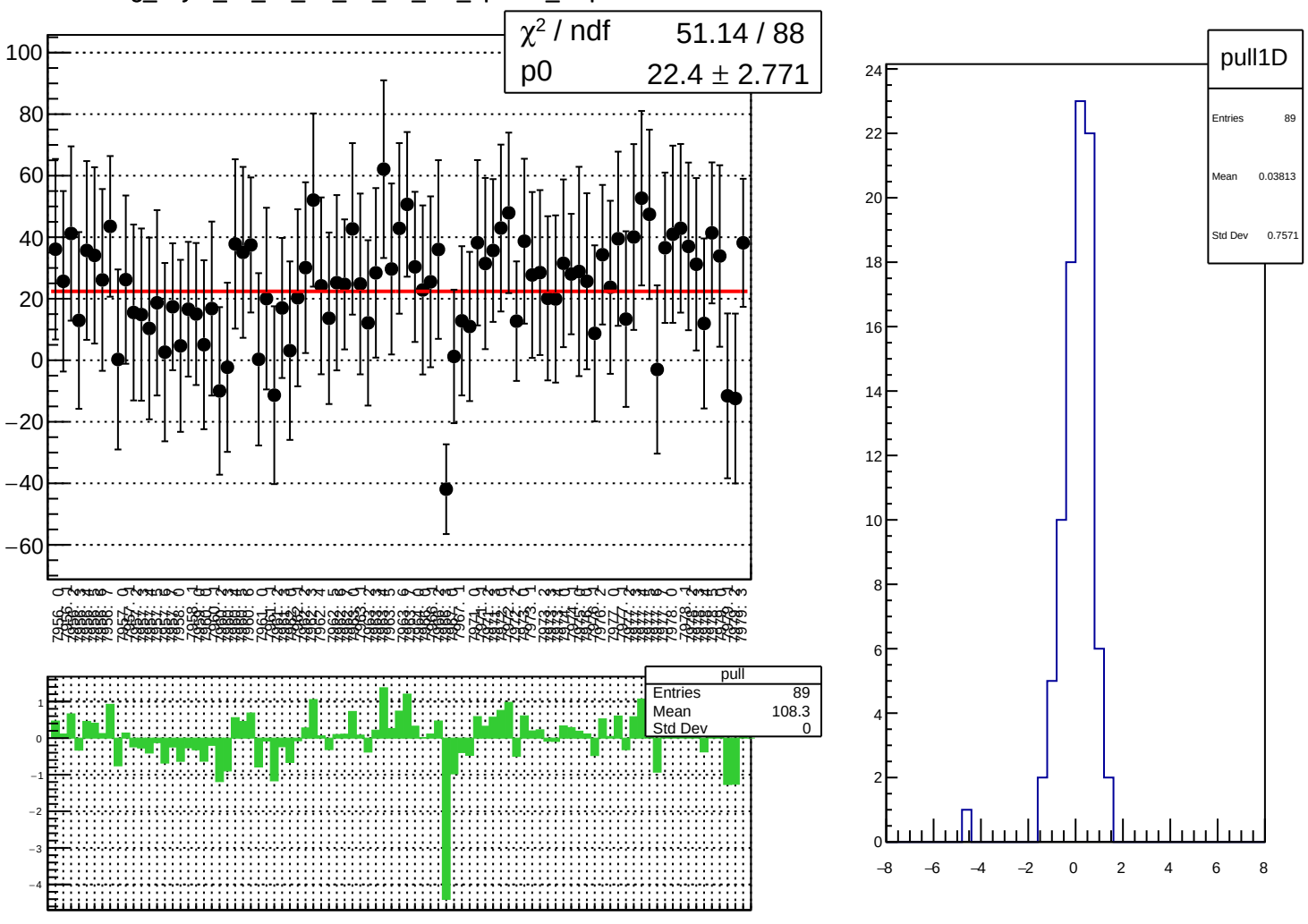

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.539 / 88
p0 −43.87 ± 8.044
pull
Entries 89
Mean −131.3
Std Dev 0
pull1D
Entries 89
Mean −0.00108
Std Dev 0.2711

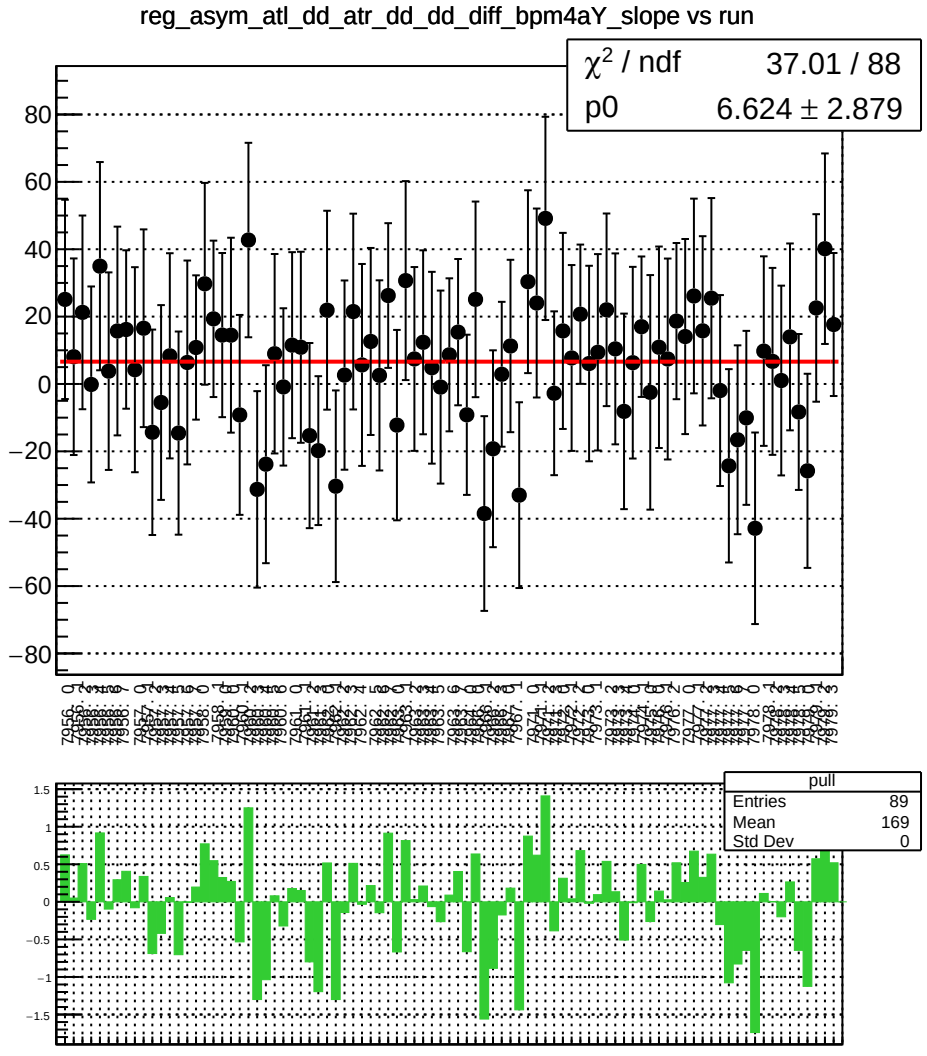

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.899 / 88
p0 −106.5 ± 6.867
0
−50
−100
−150
−200
pull
Entries 89
Mean −22.25
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 89
Mean −0.01268
Std Dev 0.3333
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

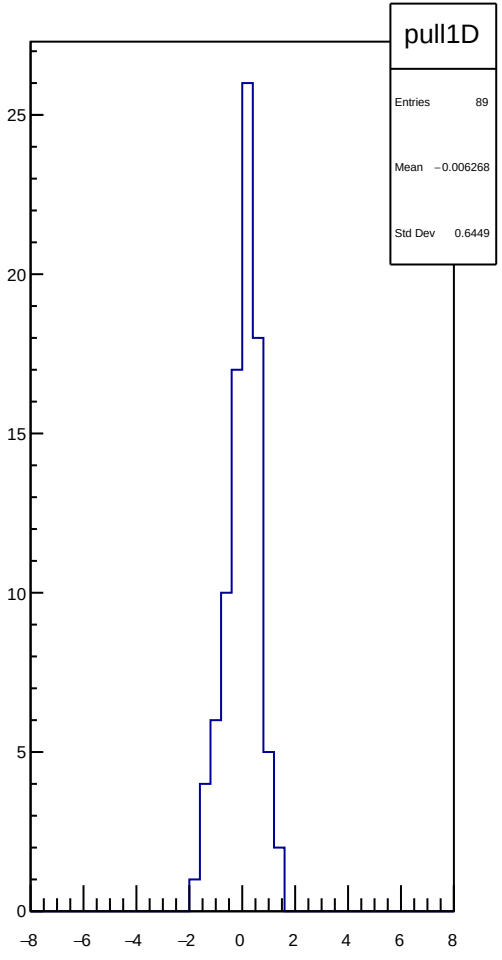

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.14 / 88
p0 −5.231 ± 9.214
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 520.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

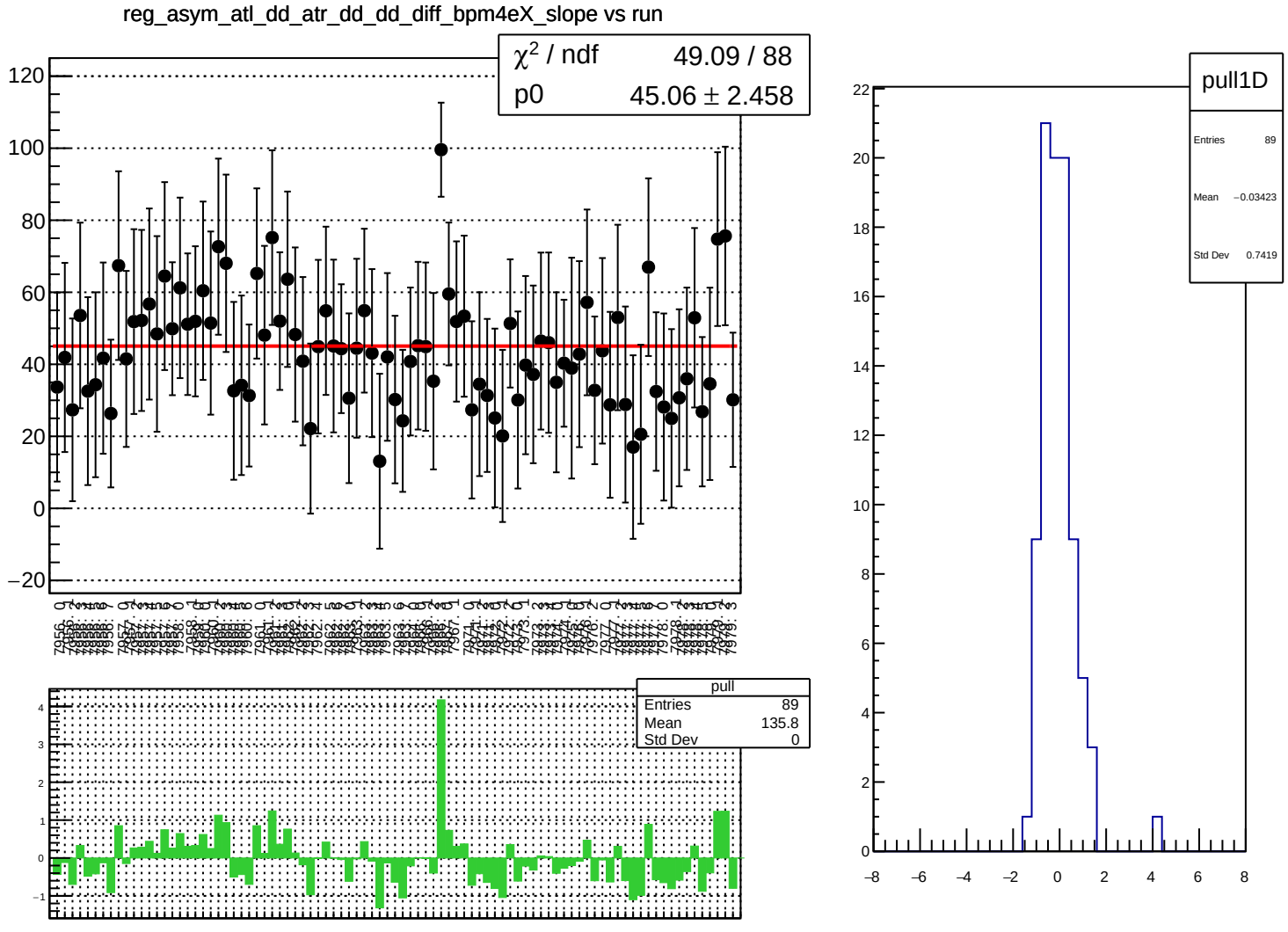

pull1D
Entries 89
Mean −0.002347
Std Dev 0.2626
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

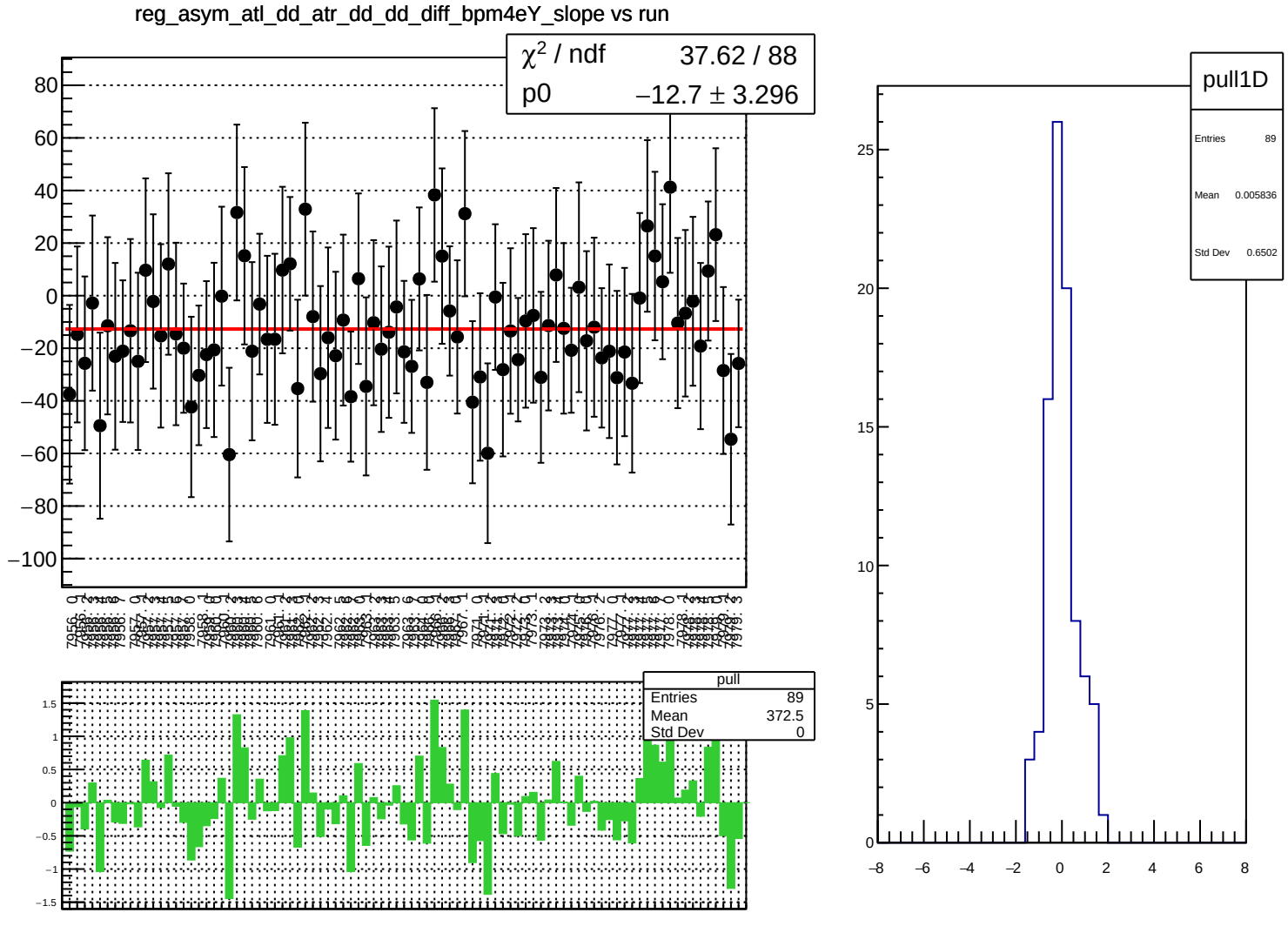

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 19.05 / 88
p0 122.3 ± 0.2661
pull
Entries 89
Mean 277.9
Std Dev 0
pull1D
Entries 89
Mean −0.01246
Std Dev 0.4625

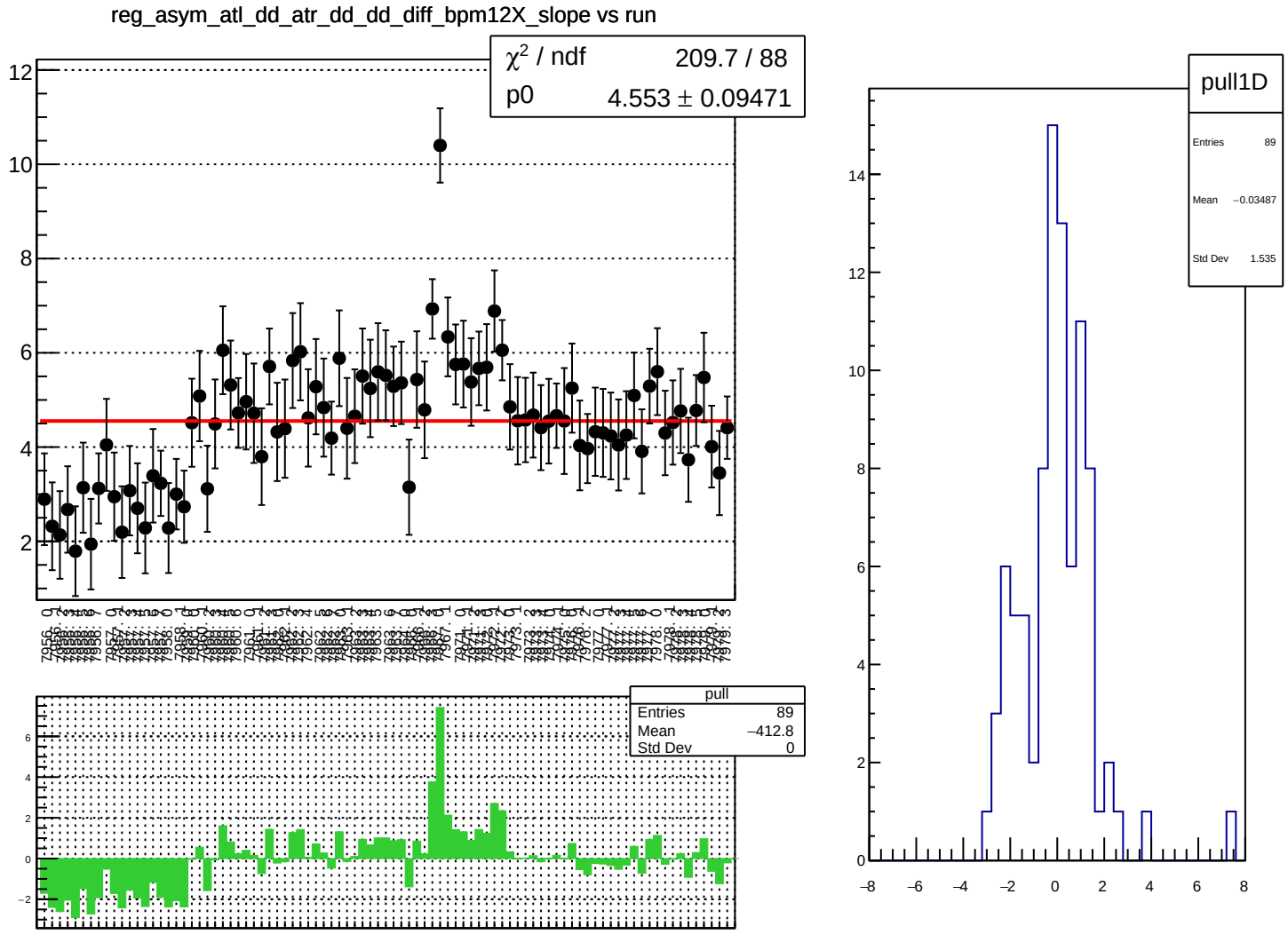

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 51.14 / 88
p0 22.4 ± 2.771
pull
Entries 89
Mean 108.3
Std Dev 0
pull1D
Entries 89
Mean 0.03813
Std Dev 0.7571

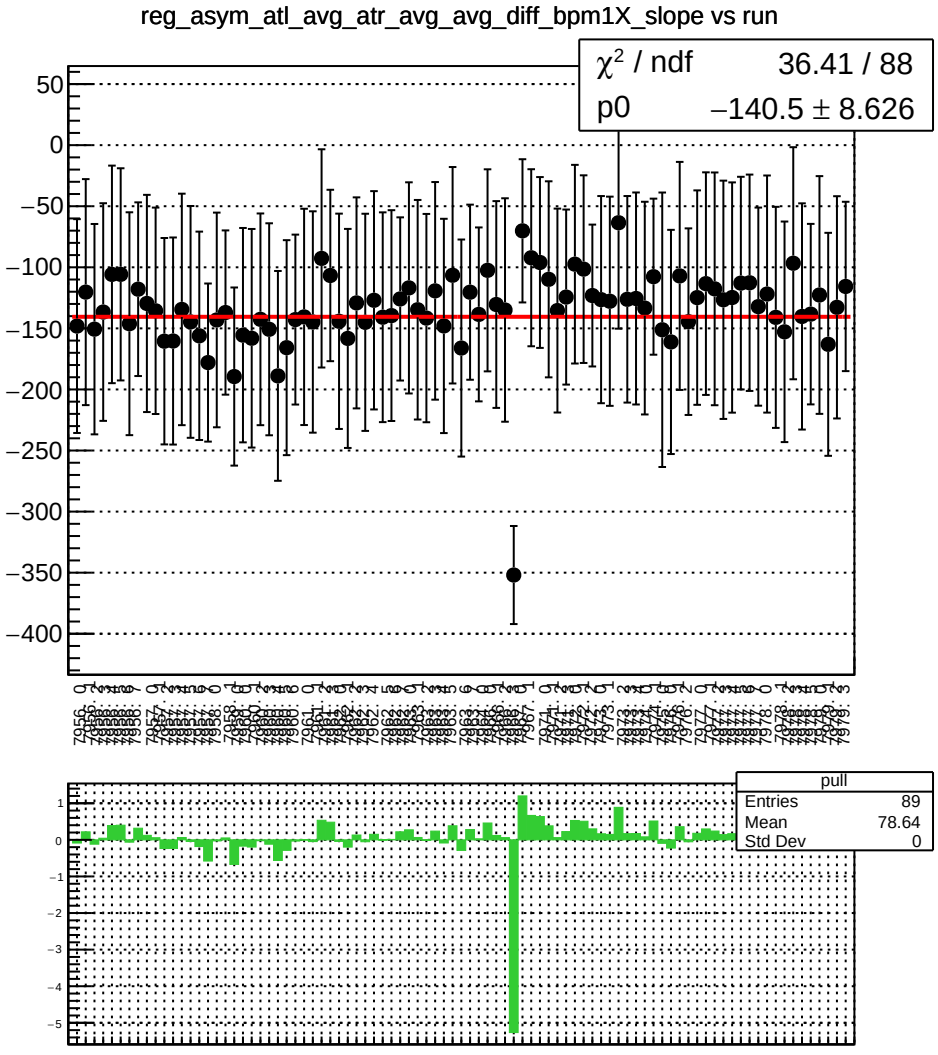

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.01 / 88
p0 6.624 ± 2.879
pull
Entries 89
Mean 169
Std Dev 0

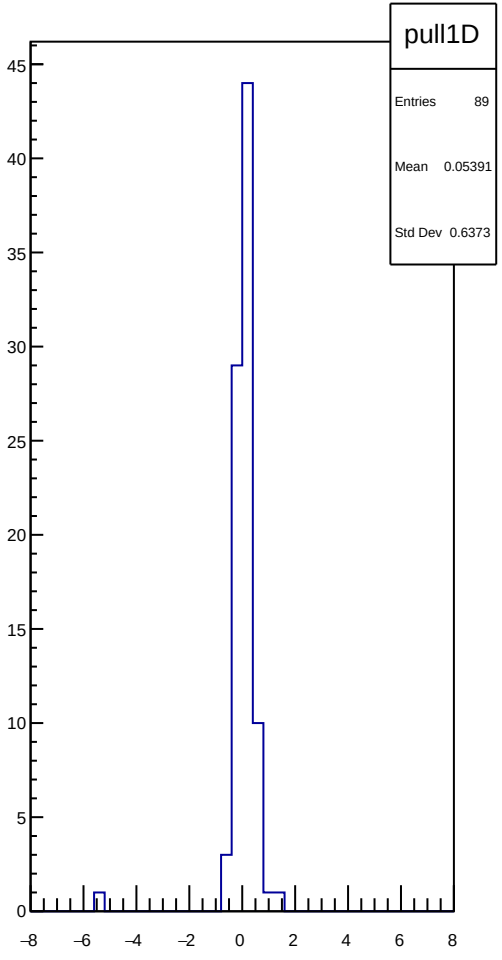

pull1D
Entries 89
Mean −0.006268
Std Dev 0.6449

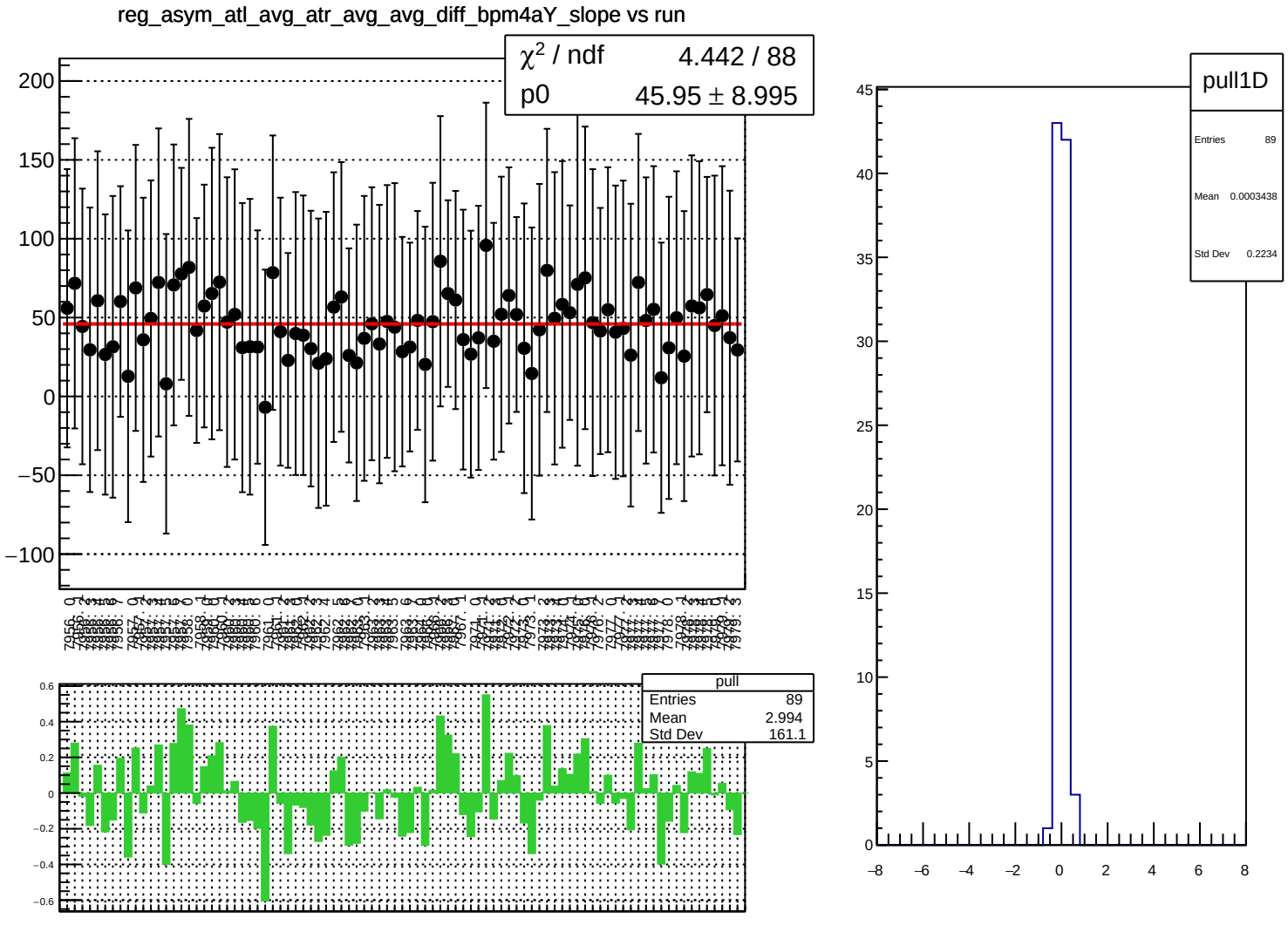

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.09 / 88
p0 45.06 ± 2.458
pull
Entries 89
Mean 135.8
Std Dev 0
pull1D
Entries 89
Mean −0.03423
Std Dev 0.7419

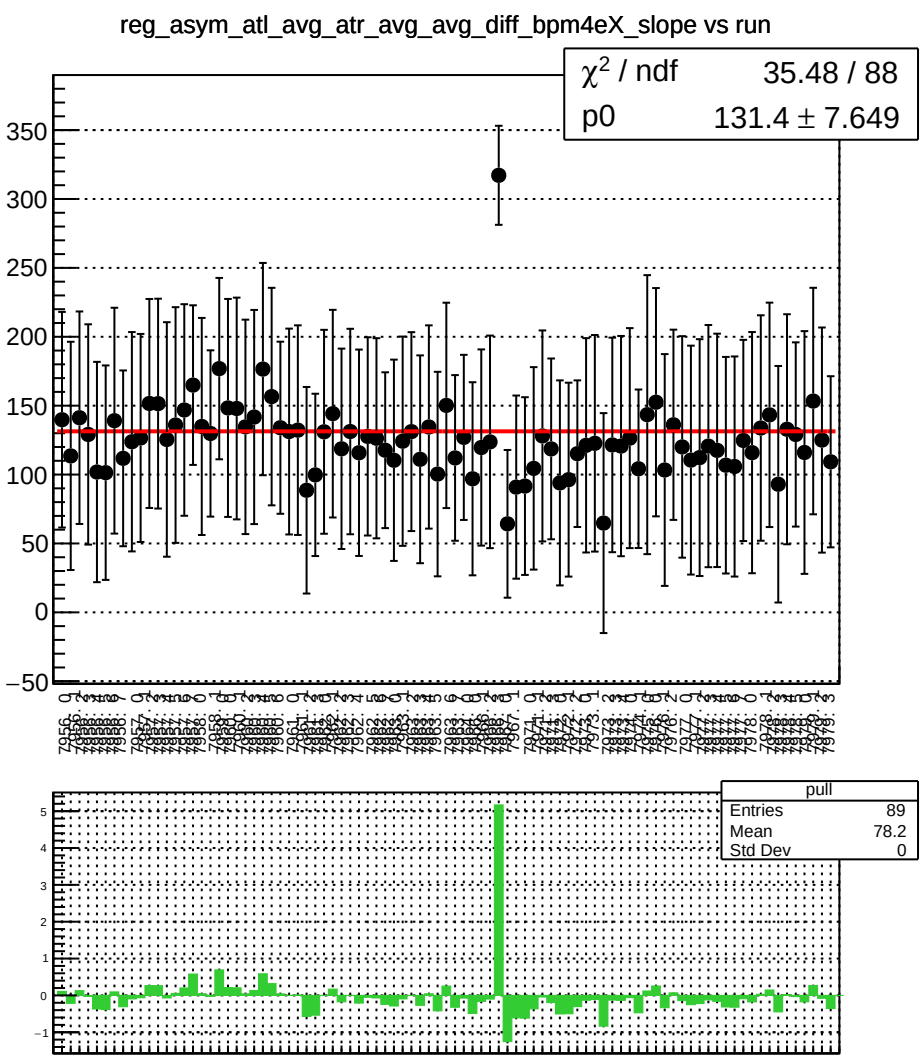

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.62 / 88
p0 −12.7 ± 3.296
pull
Entries 89
Mean 372.5
Std Dev 0
pull1D
Entries 89
Mean 0.005836
Std Dev 0.6502

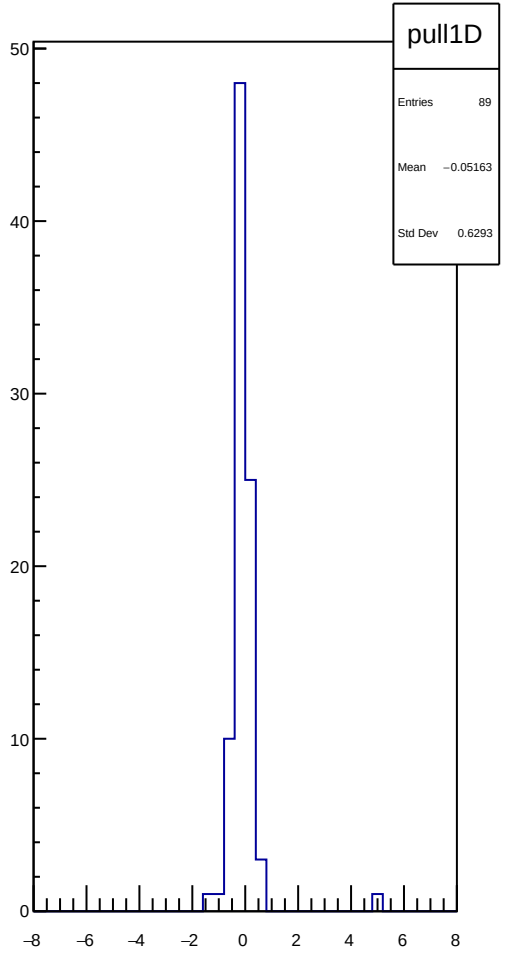

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 209.7 / 88
p0 4.553 ± 0.09471
pull
Entries 89
Mean −412.8
Std Dev 0
pull1D
Entries 89
Mean −0.03487
Std Dev 1.535

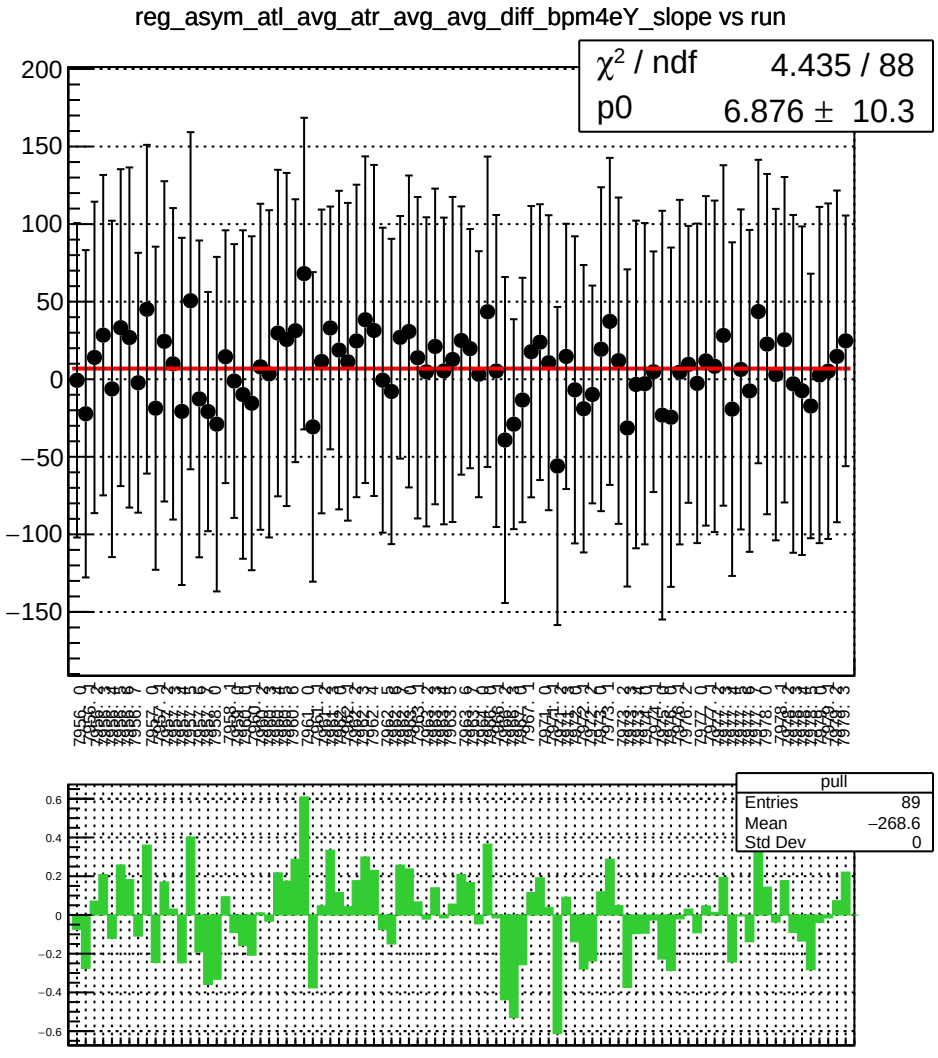

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 36.41 / 88
p0 −140.5 ± 8.626
pull
Entries 89
Mean 78.64
Std Dev 0

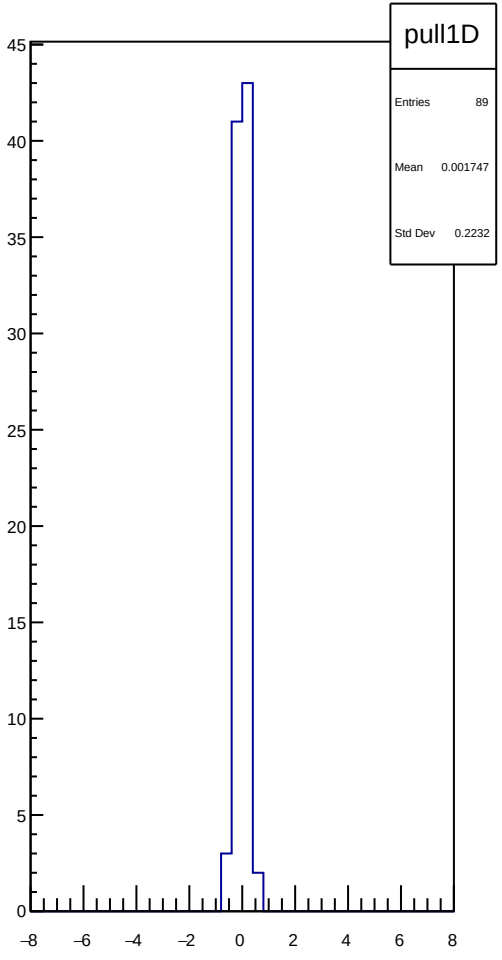

pull1D
Entries 89
Mean 0.05391
Std Dev 0.6373

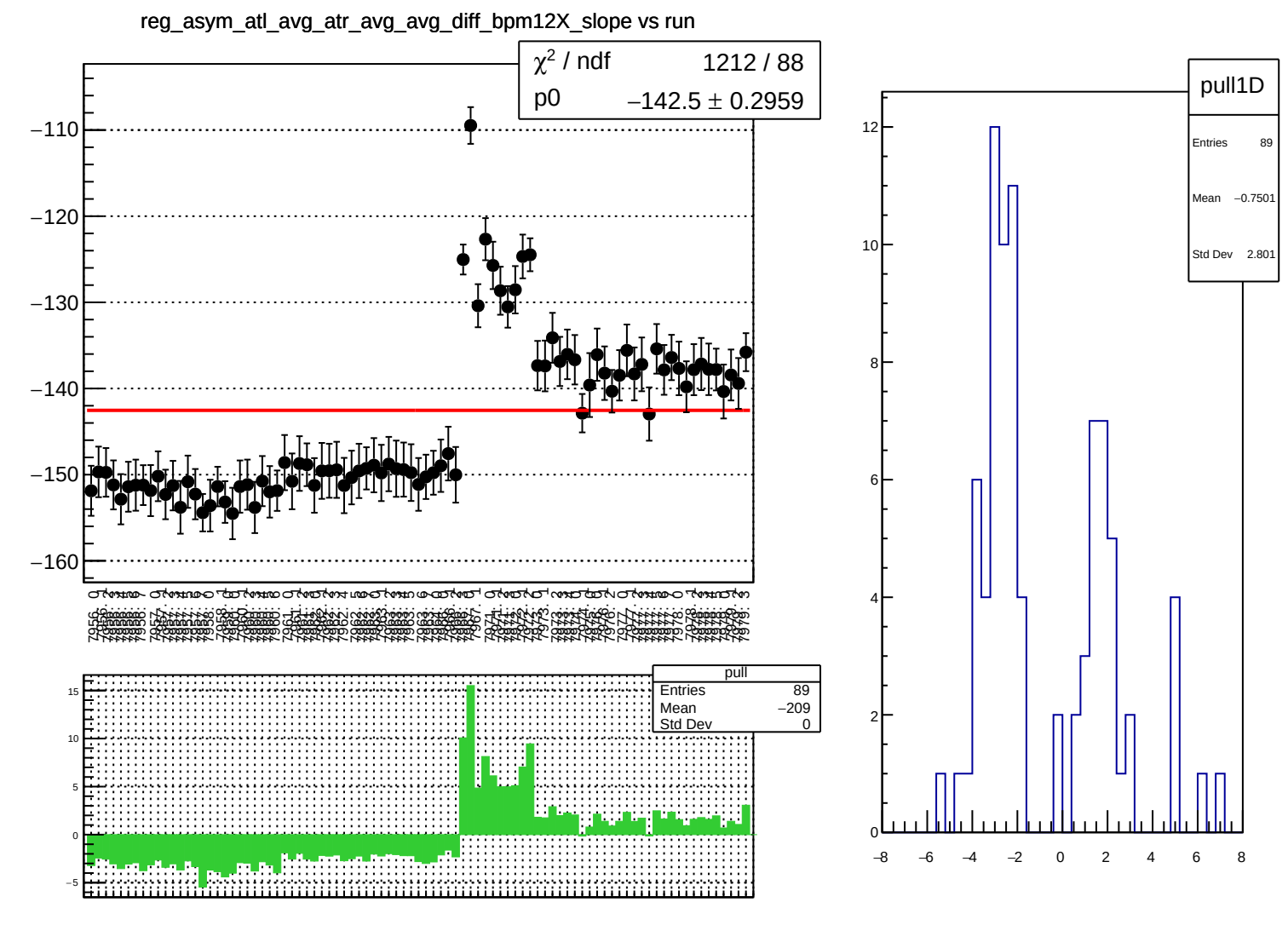

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.442 / 88
p0 45.95 ± 8.995
200
150
100
50
0
−50
−100
pull
Entries 89
Mean 2.994
Std Dev 161.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean 0.0003438
Std Dev 0.2234
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

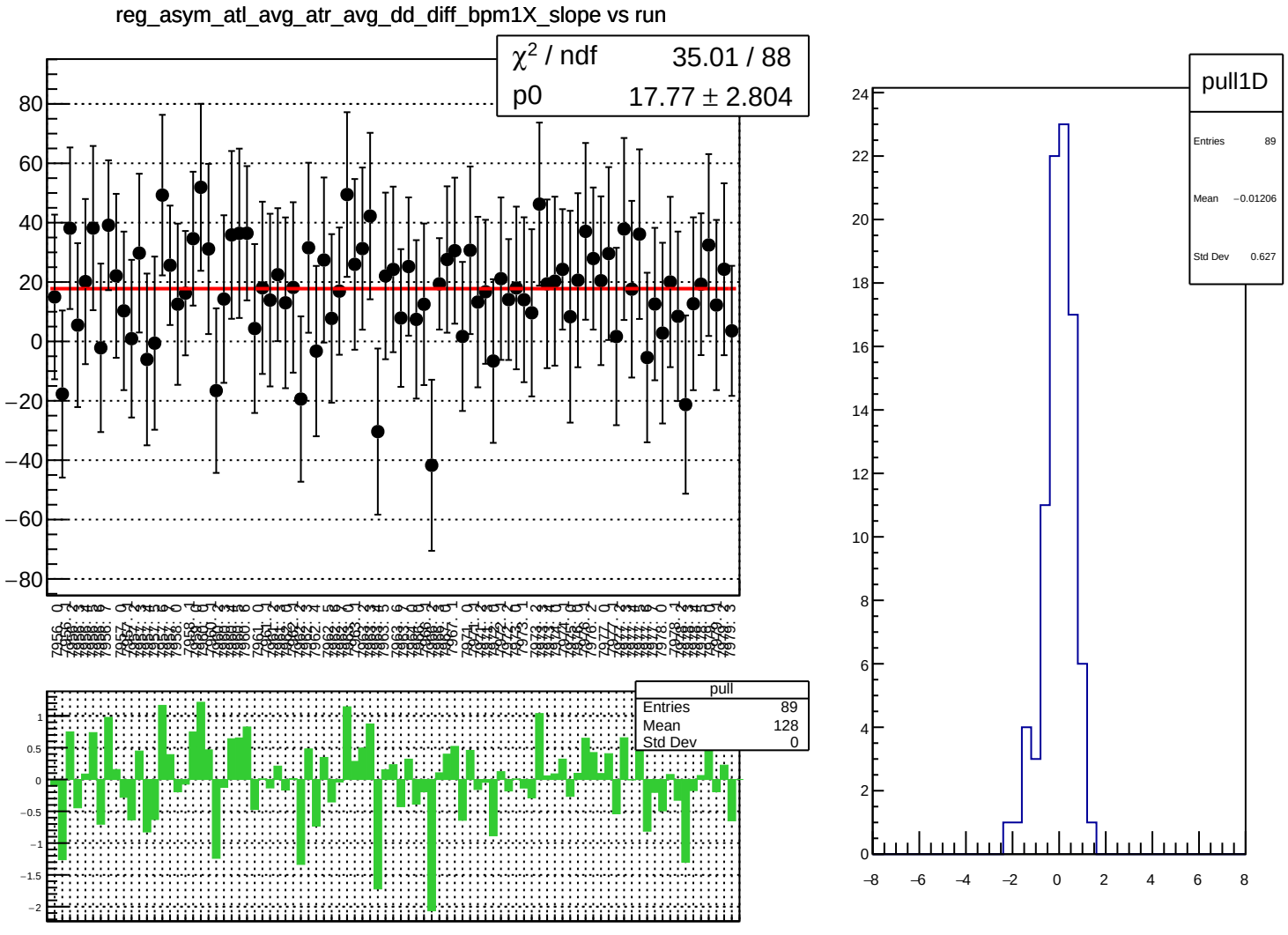

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.48 / 88
p0 131.4 ± 7.649
pull
Entries 89
Mean 78.2
Std Dev 0

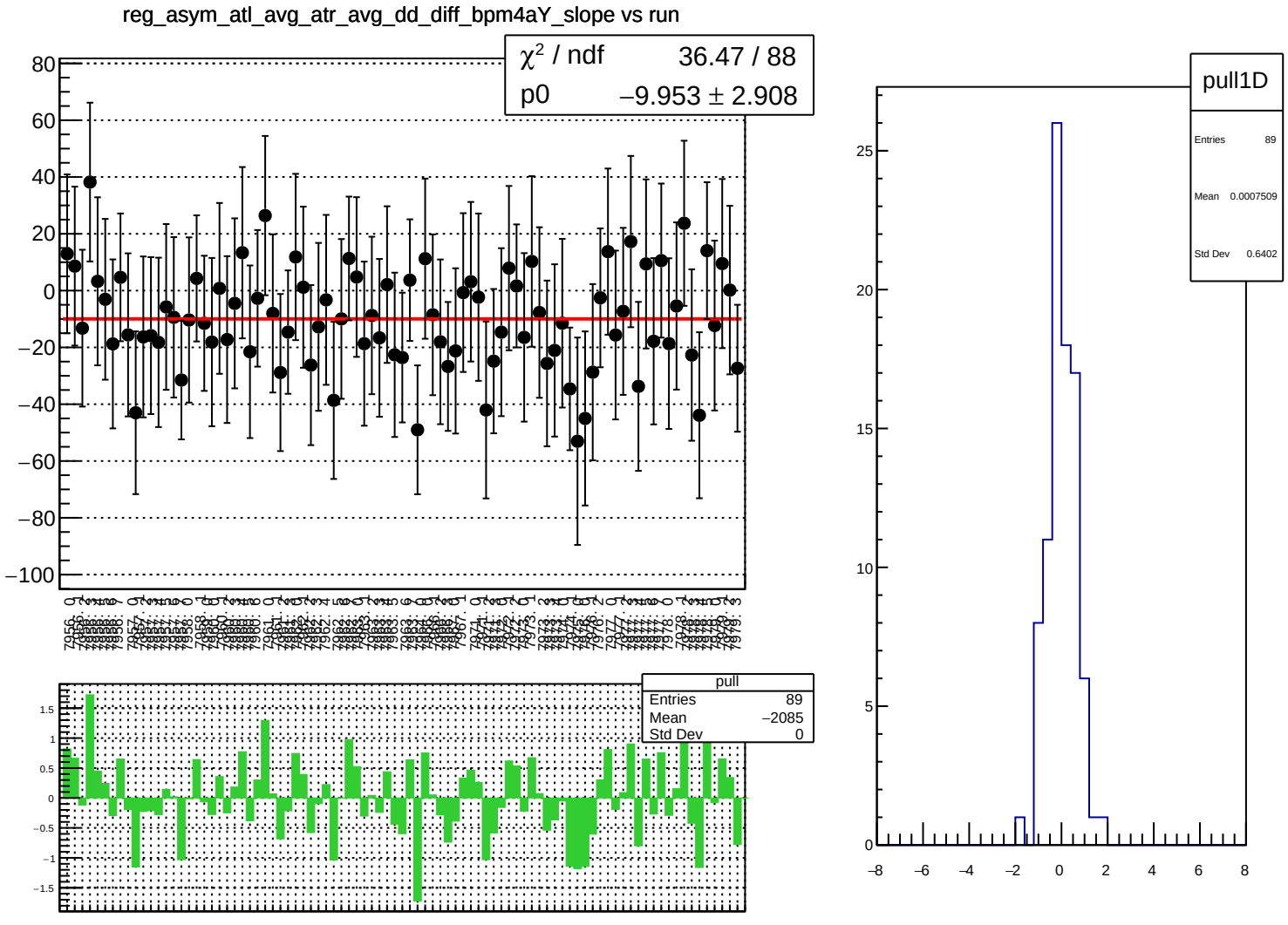

pull1D
Entries 89
Mean −0.05163
Std Dev 0.6293

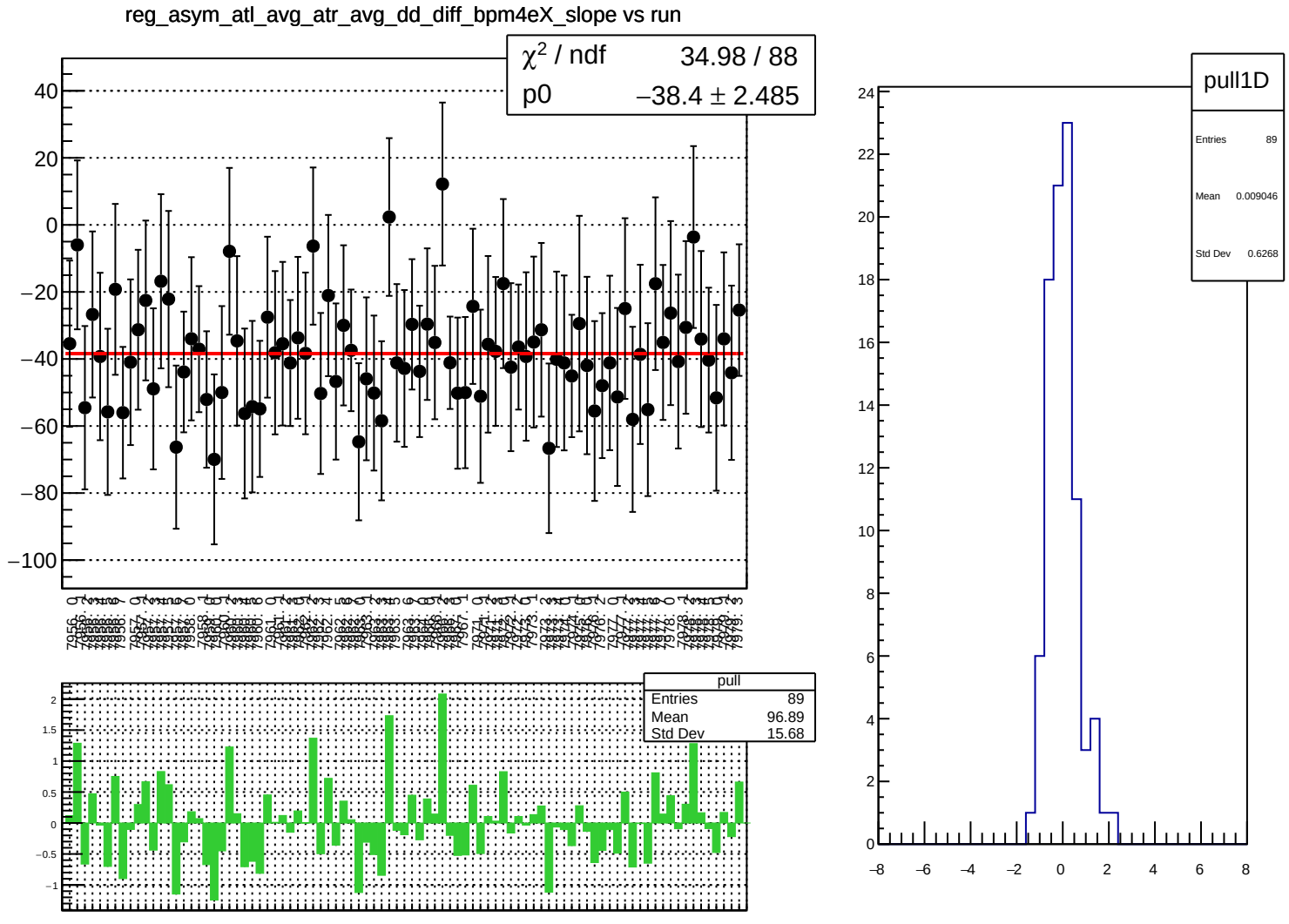

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.435 / 88
p0 6.876 ± 10.3
pull
Entries 89
Mean −268.6
Std Dev 0

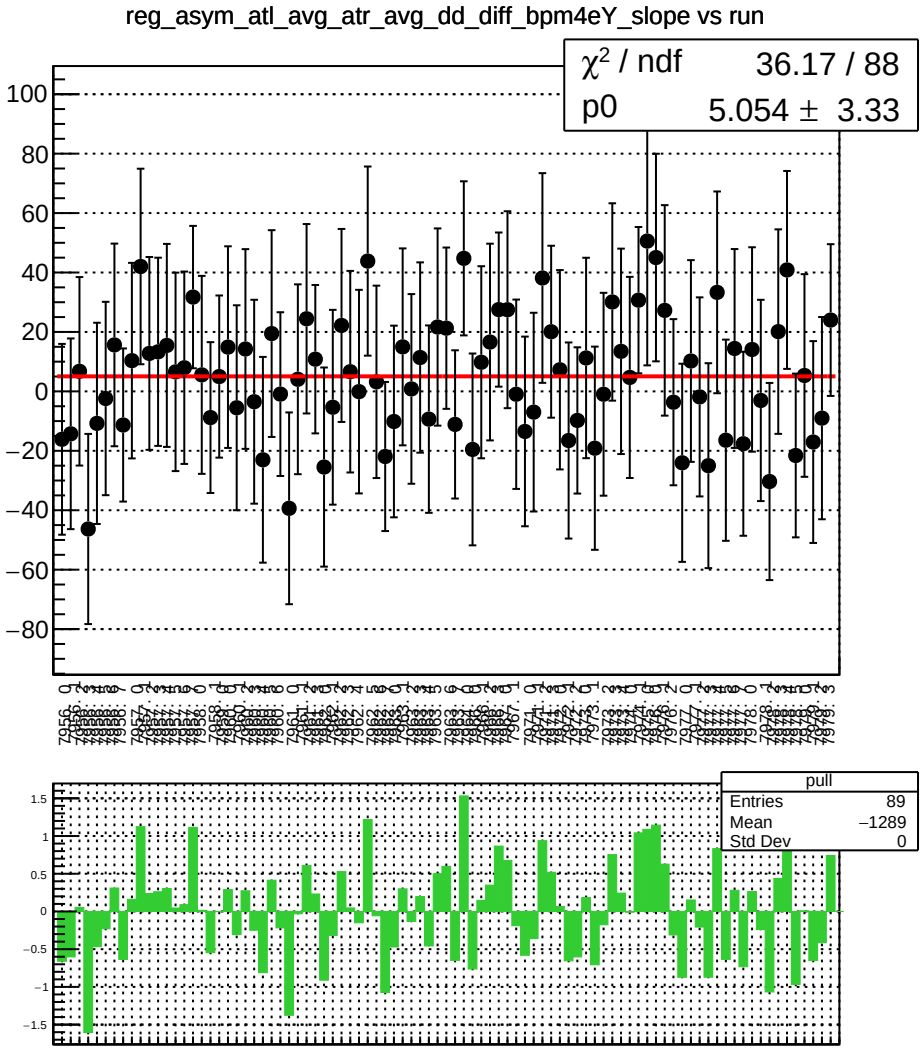

pull1D
Entries 89
Mean 0.001747
Std Dev 0.2232

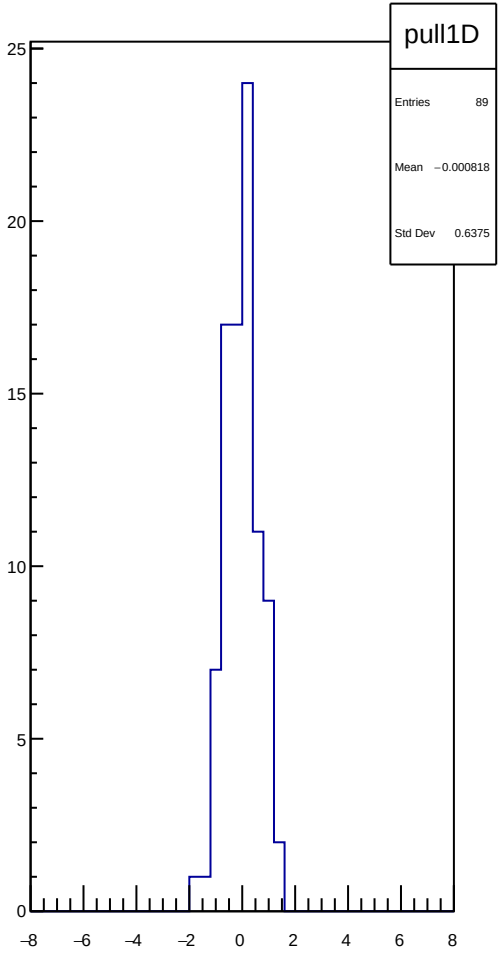

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1212 / 88
p0 −142.5 ± 0.2959
−110
−120
−130
−140
−150
−160
pull
Entries 89
Mean −209
Std Dev 0
15
10
5
0
−5
pull1D
Entries 89
Mean −0.7501
Std Dev 2.801
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

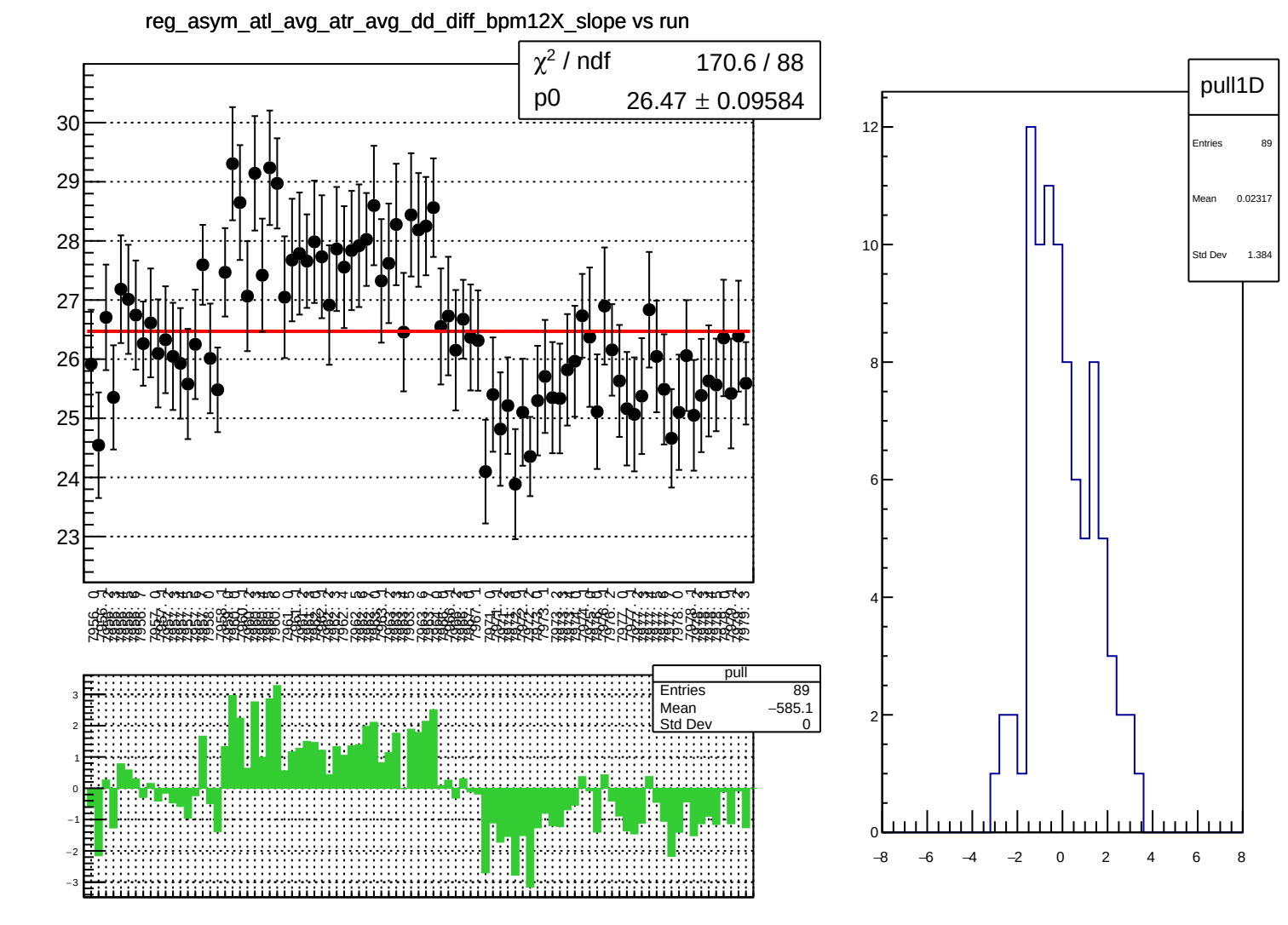

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 35.01 / 88
p0 17.77 ± 2.804
pull
Entries 89
Mean 128
Std Dev 0
pull1D
Entries 89
Mean −0.01206
Std Dev 0.627

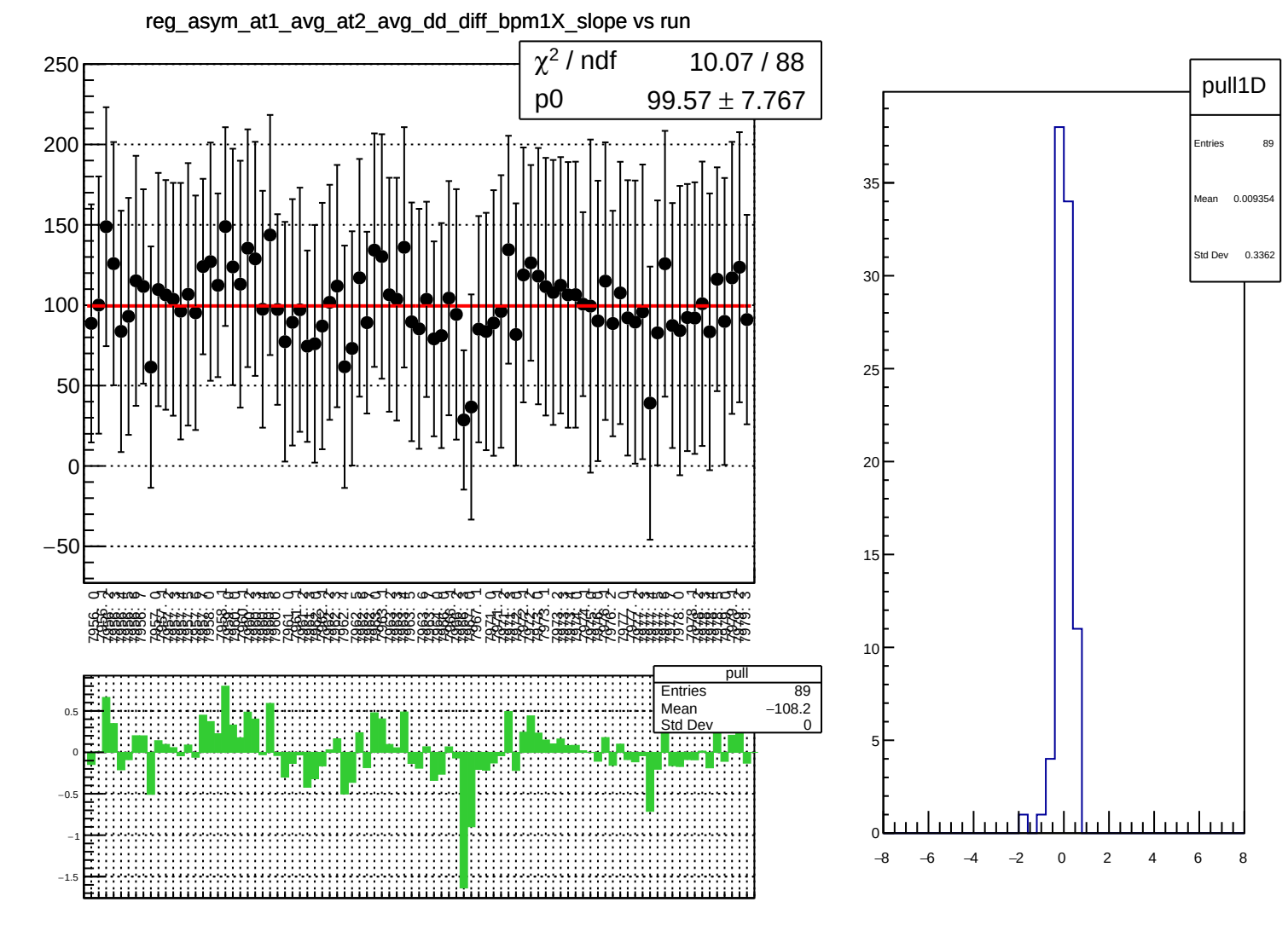

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.47 / 88
p0 −9.953 ± 2.908
pull
Entries 89
Mean −2085
Std Dev 0
pull1D
Entries 89
Mean 0.0007509
Std Dev 0.6402

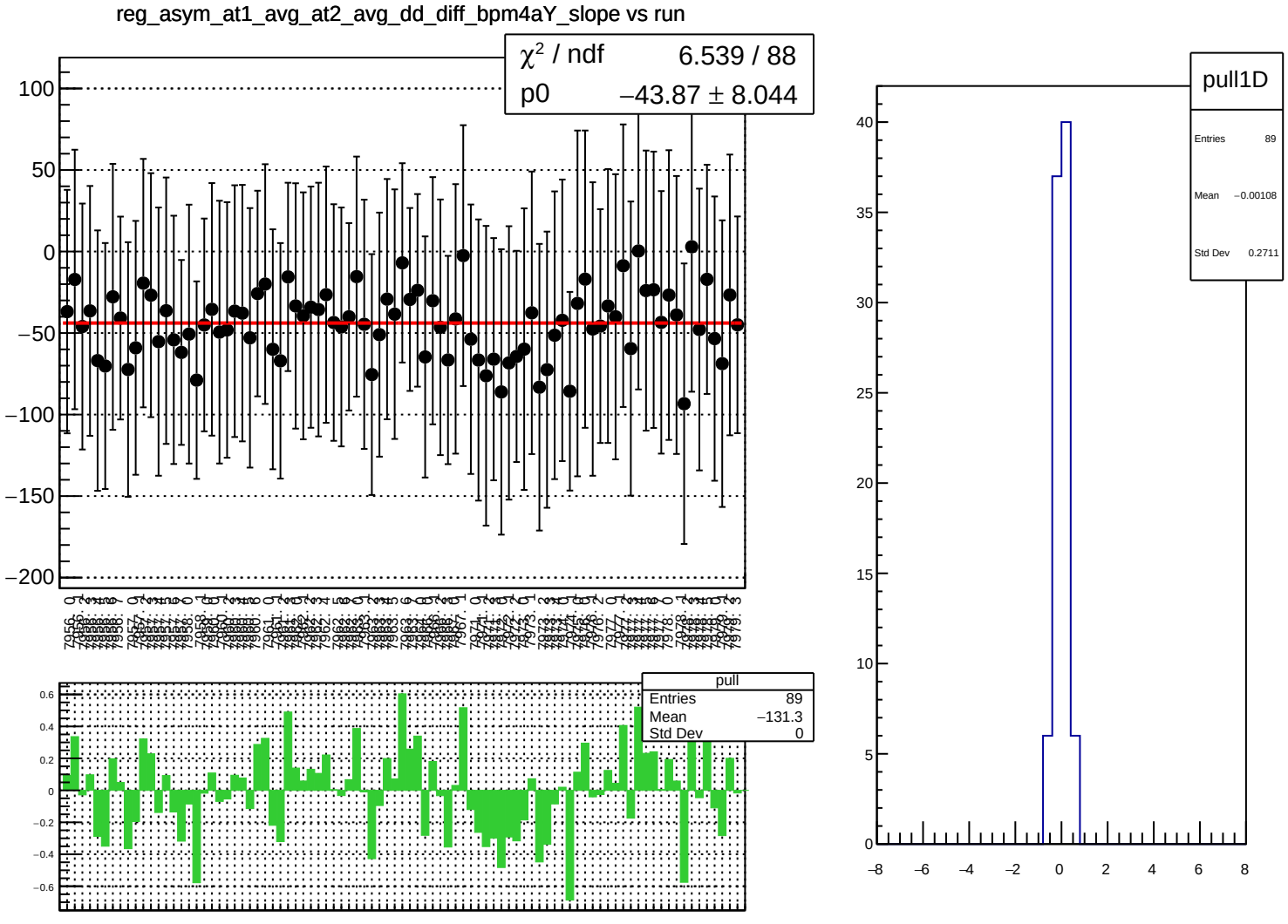

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.98 / 88
p0 −38.4 ± 2.485
pull
Entries 89
Mean 96.89
Std Dev 15.68
pull1D
Entries 89
Mean 0.009046
Std Dev 0.6268

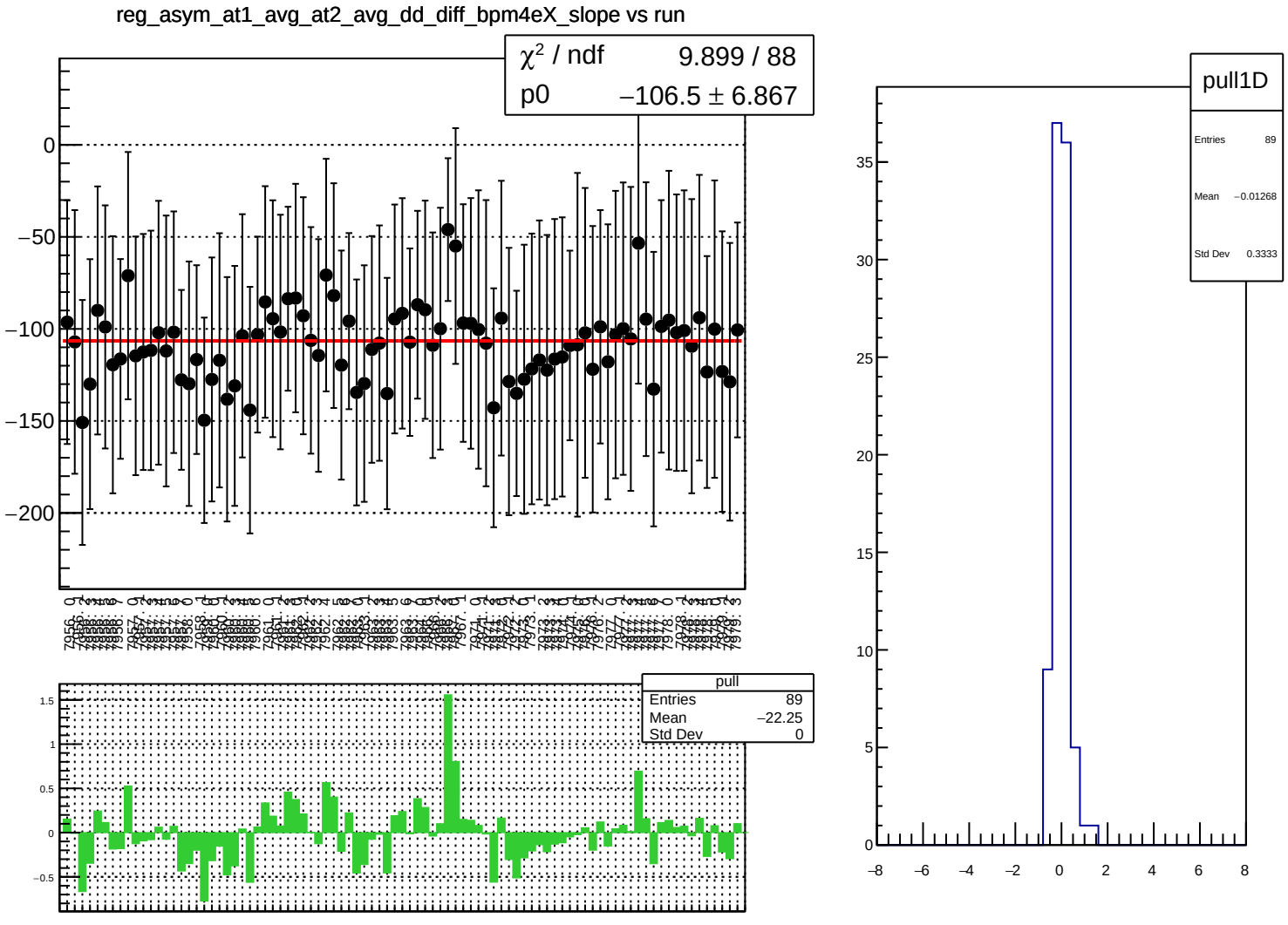

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.17 / 88
p0 5.054 ± 3.33
pull
Entries 89
Mean −1289
Std Dev 0

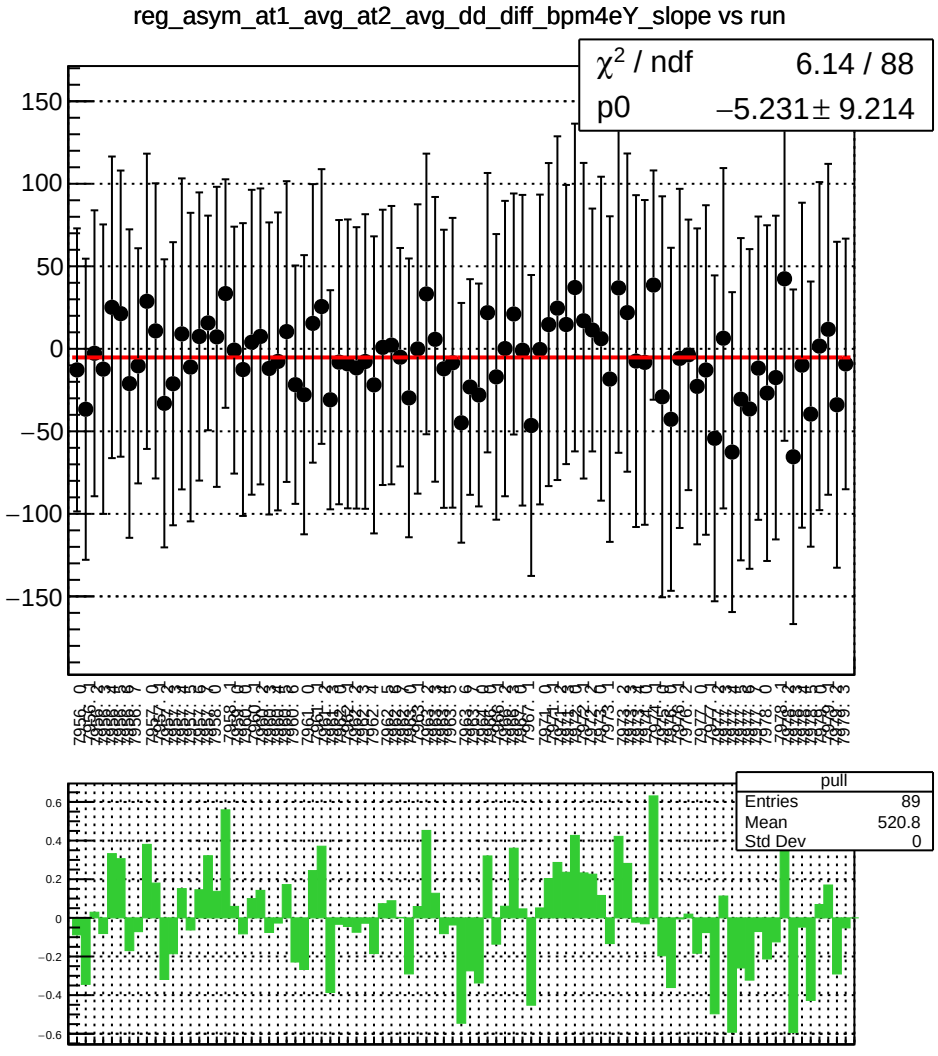

pull1D
Entries 89
Mean −0.000818
Std Dev 0.6375

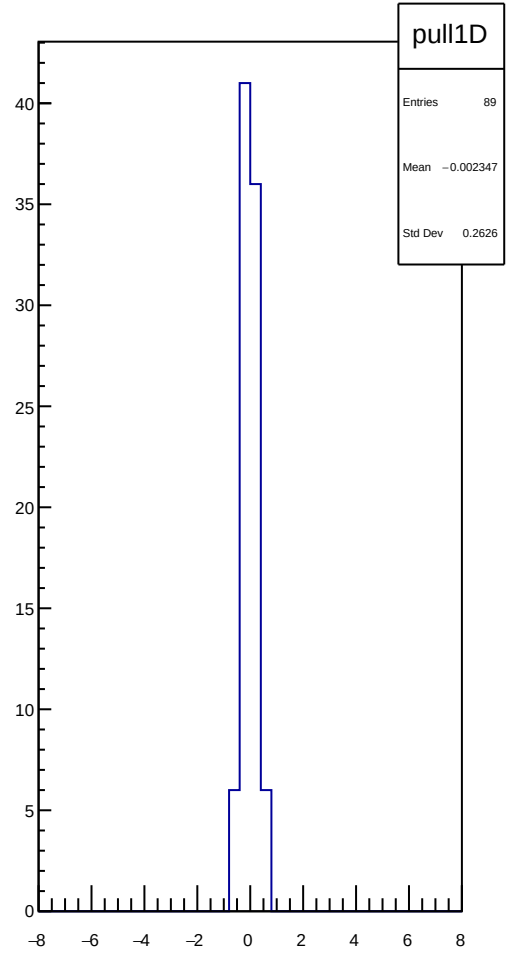

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 170.6 / 88
p0 26.47 ± 0.09584
pull
Entries 89
Mean −585.1
Std Dev 0
pull1D
Entries 89
Mean 0.02317
Std Dev 1.384

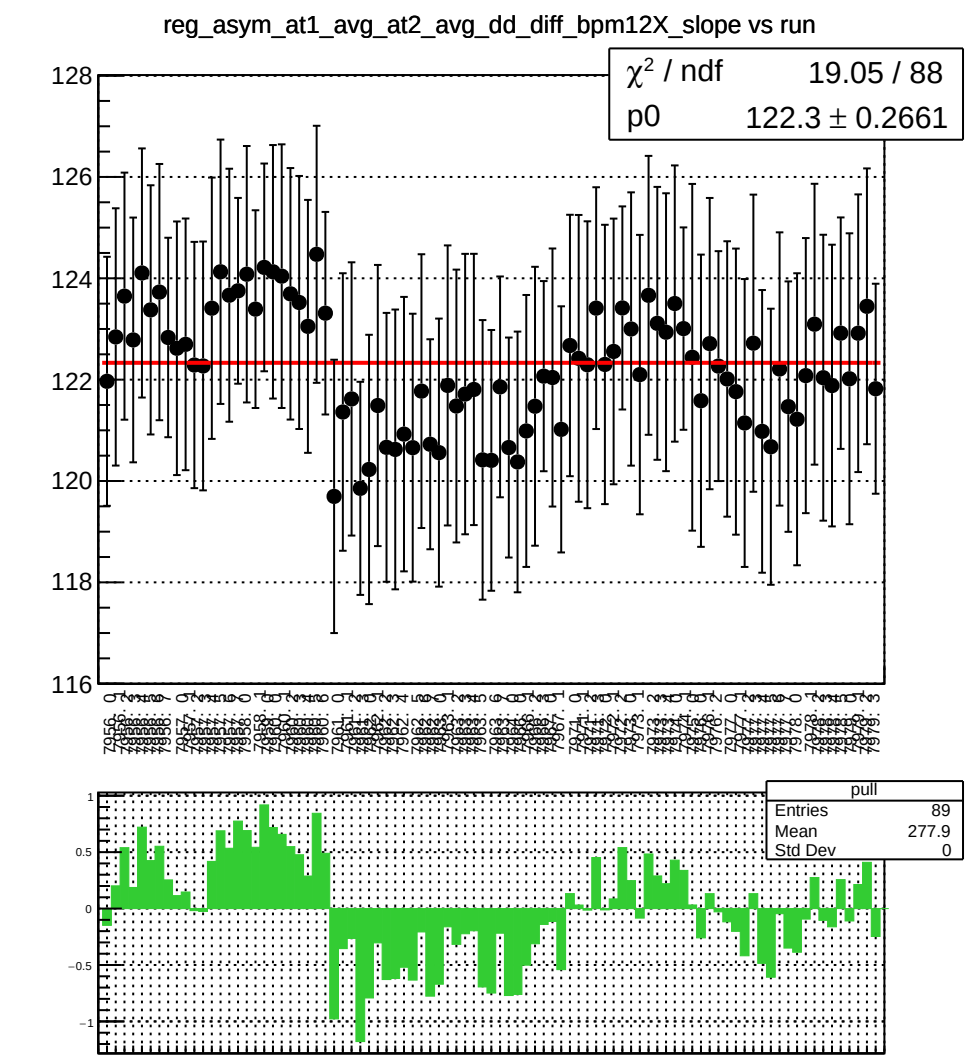

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 10.07 / 88
p0 99.57 ± 7.767
pull
Entries 89
Mean −108.2
Std Dev 0
pull1D
Entries 89
Mean 0.009354
Std Dev 0.3362

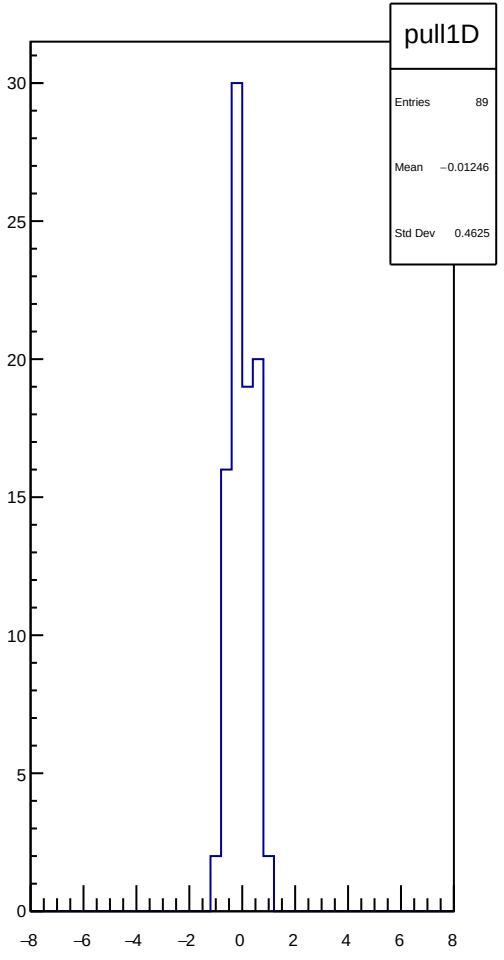

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.539 / 88
p0 −43.87 ± 8.044
pull
Entries 89
Mean −131.3
Std Dev 0
pull1D
Entries 89
Mean −0.00108
Std Dev 0.2711

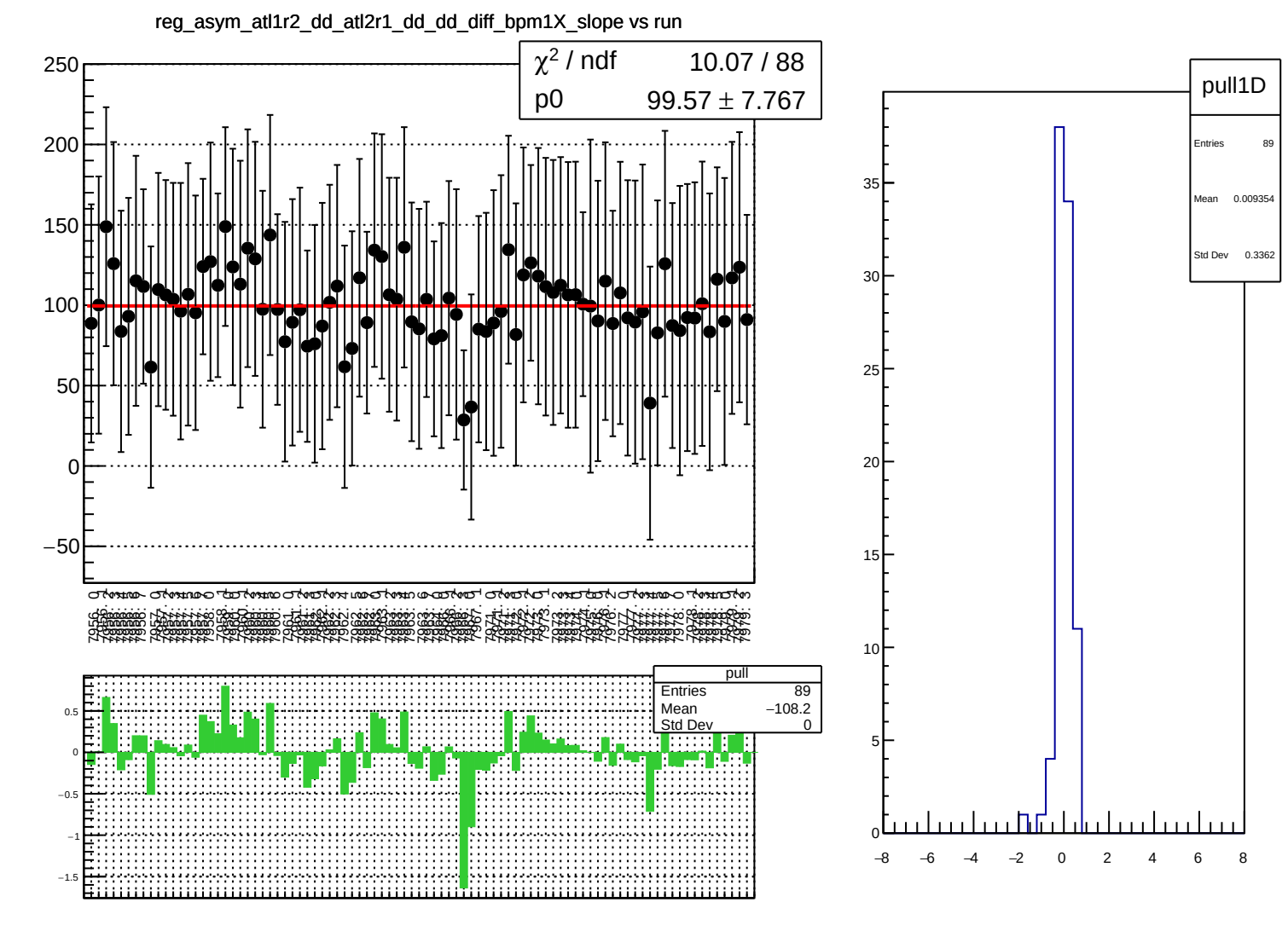

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.899 / 88
p0 −106.5 ± 6.867
0
−50
−100
−150
−200
pull
Entries 89
Mean −22.25
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 89
Mean −0.01268
Std Dev 0.3333
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

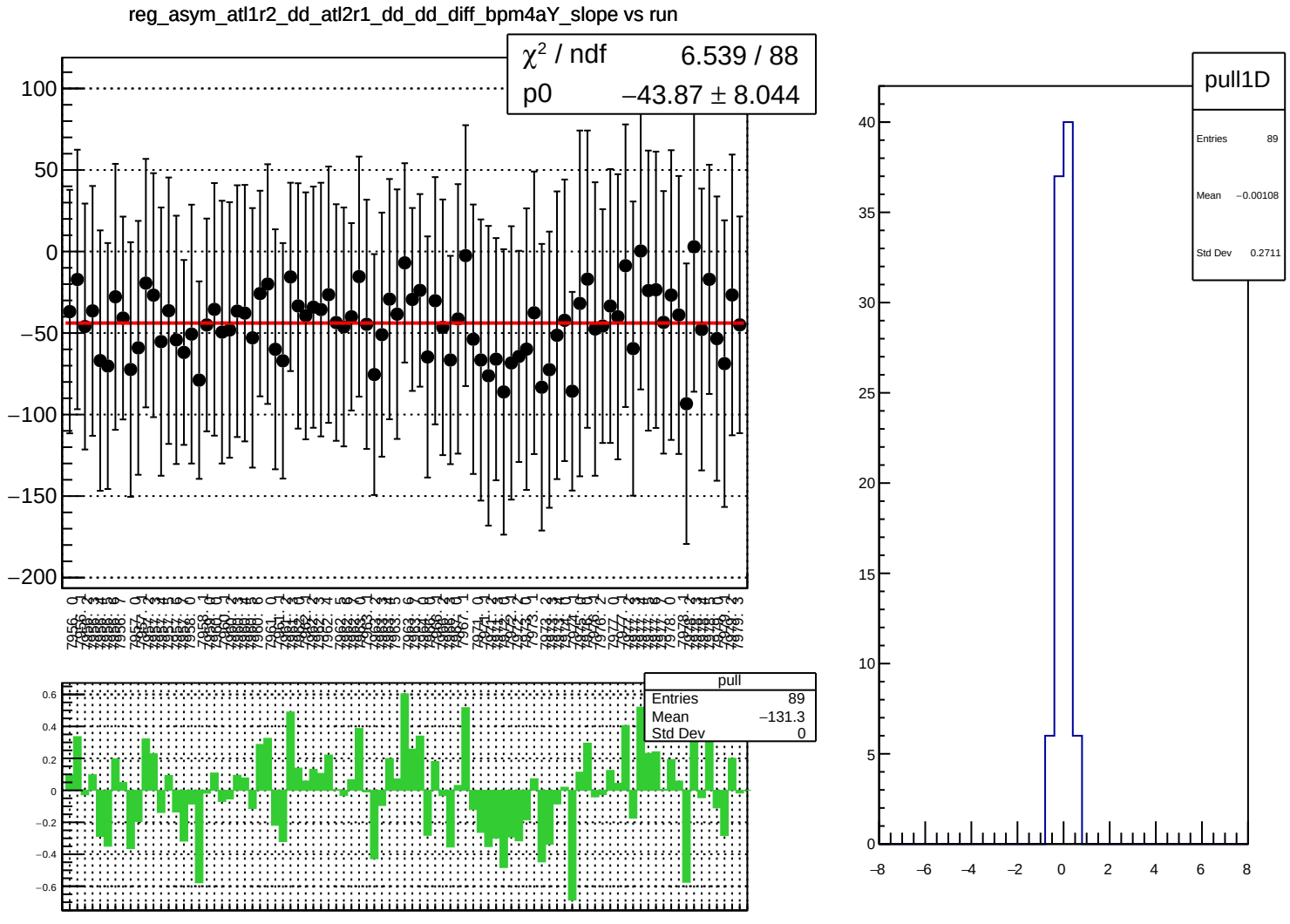

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.14 / 88
p0 −5.231 ± 9.214
pull
Entries 89
Mean 520.8
Std Dev 0

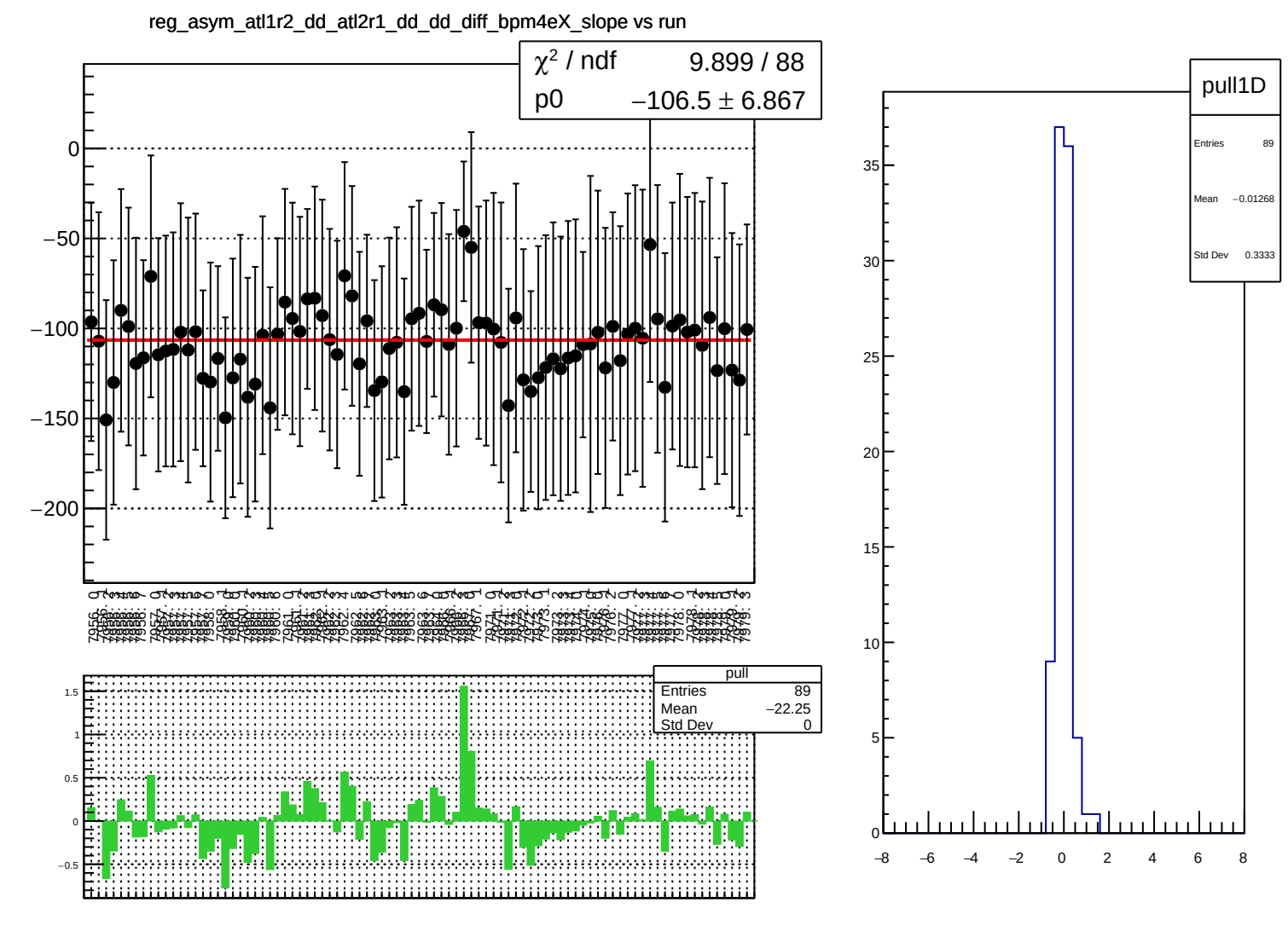

pull1D
Entries 89
Mean −0.002347
Std Dev 0.2626

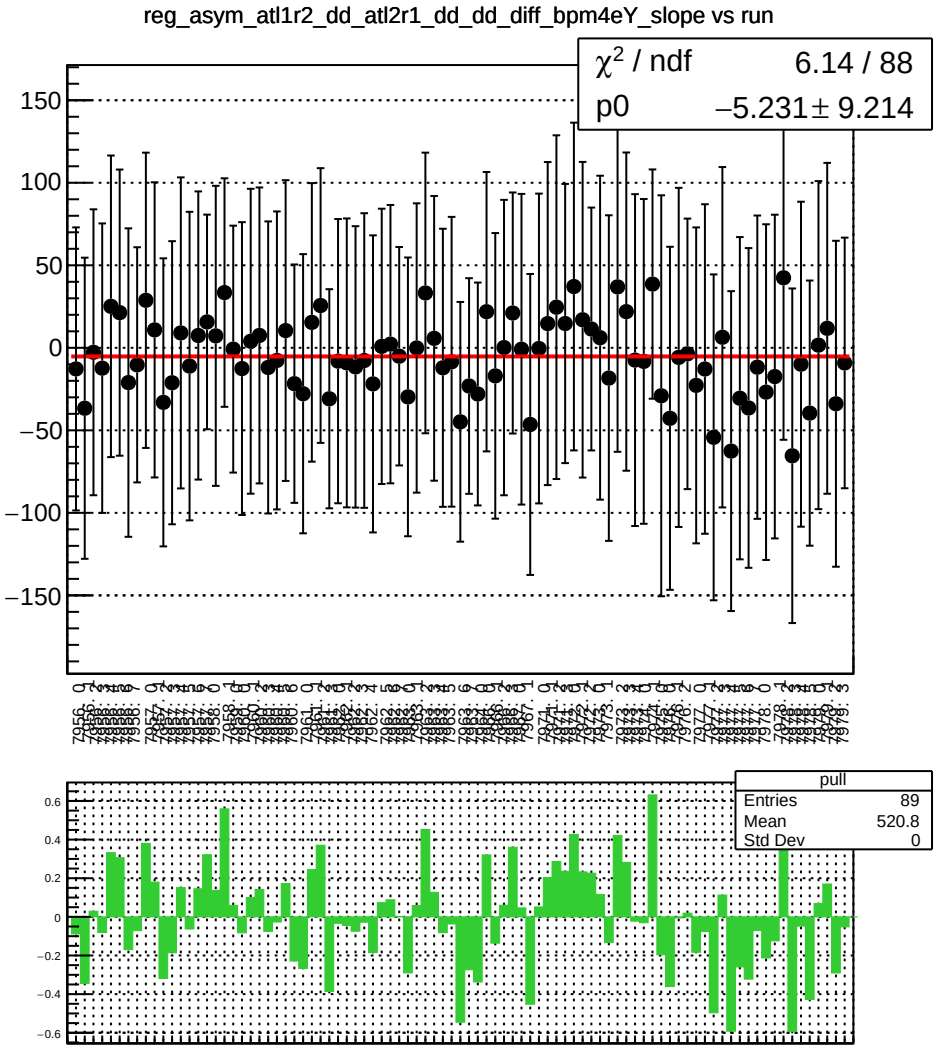

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 19.05 / 88
p0 122.3 ± 0.2661
pull
Entries 89
Mean 277.9
Std Dev 0

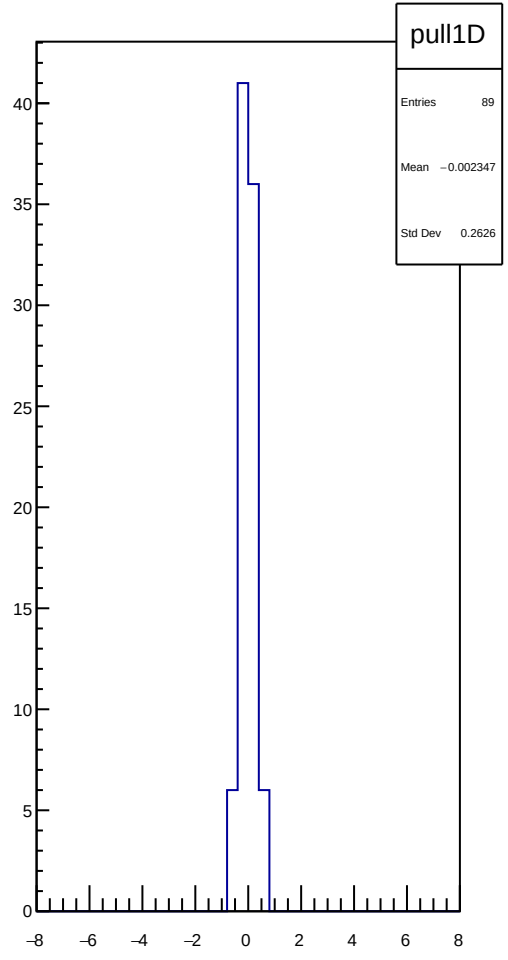

pull1D
Entries 89
Mean −0.01246
Std Dev 0.4625

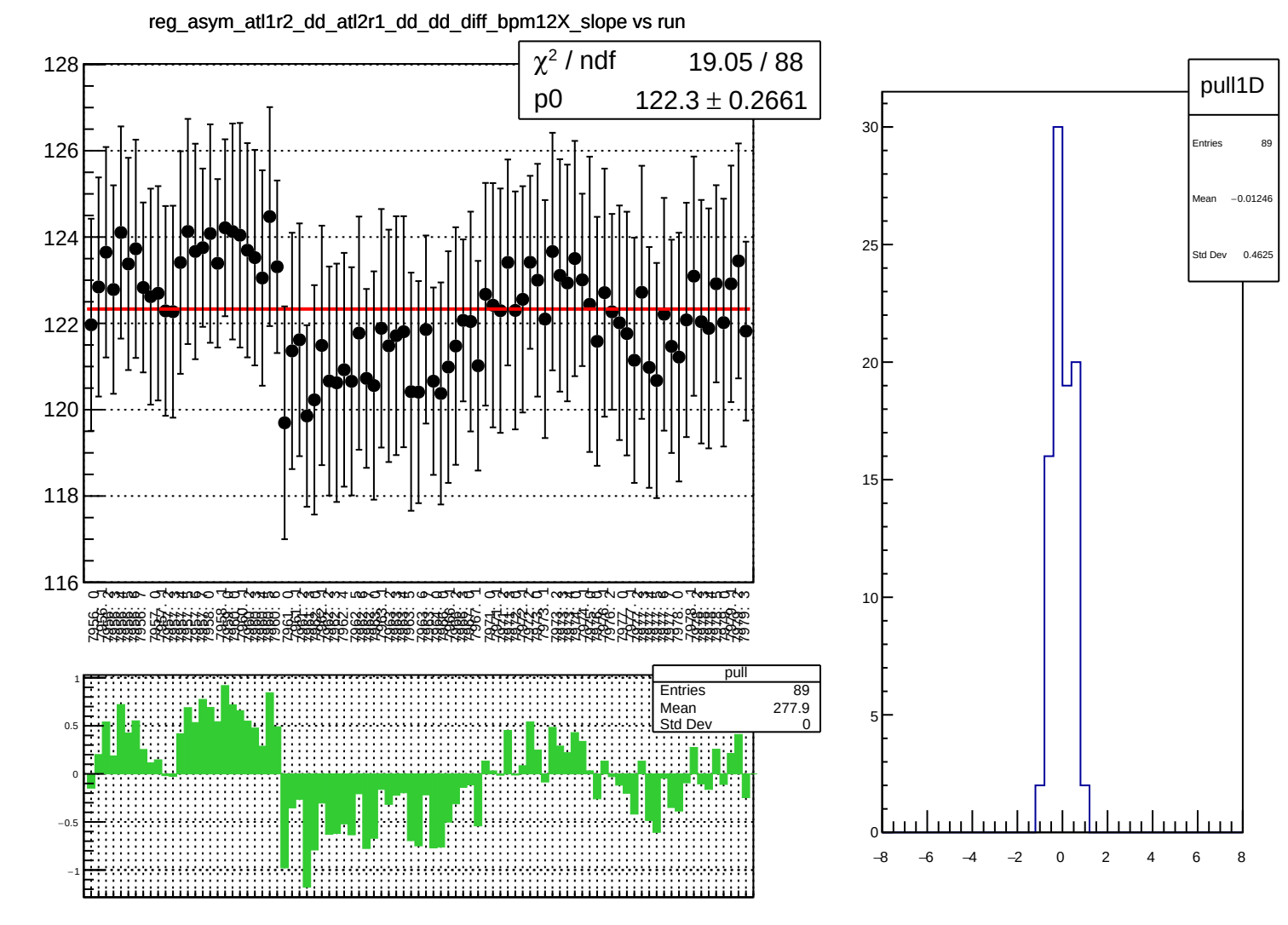

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 10.07 / 88
p0 99.57 ± 7.767
pull
Entries 89
Mean −108.2
Std Dev 0
pull1D
Entries 89
Mean 0.009354
Std Dev 0.3362

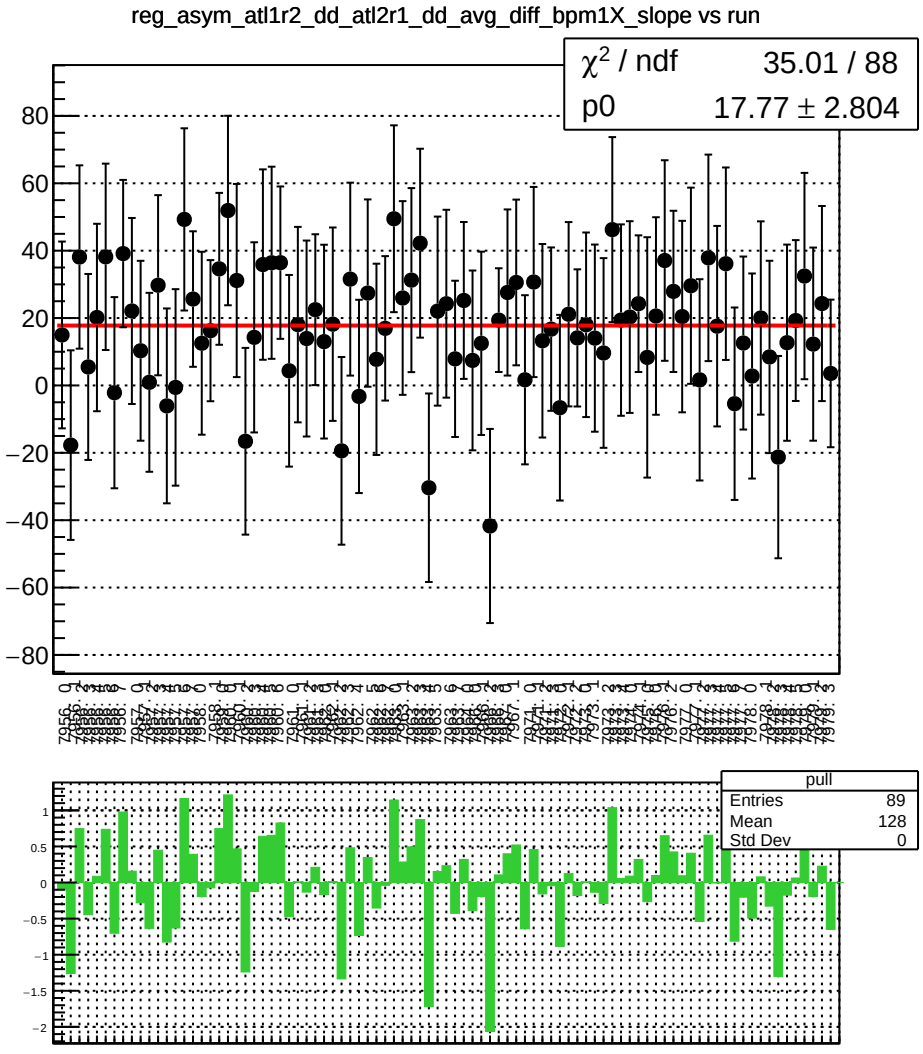

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.539 / 88
p0 −43.87 ± 8.044
pull
Entries 89
Mean −131.3
Std Dev 0
pull1D
Entries 89
Mean −0.00108
Std Dev 0.2711

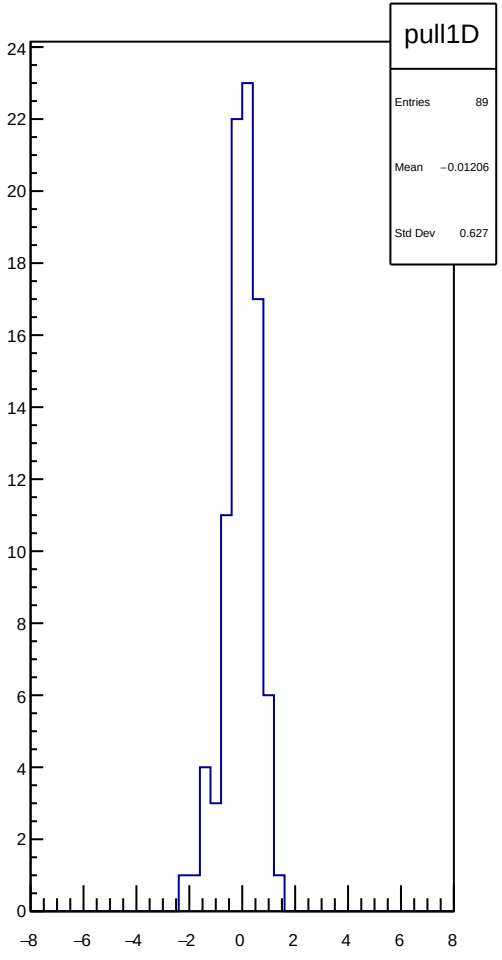

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.899 / 88
p0 −106.5 ± 6.867
0
−50
−100
−150
−200
pull
Entries 89
Mean −22.25
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 89
Mean −0.01268
Std Dev 0.3333
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

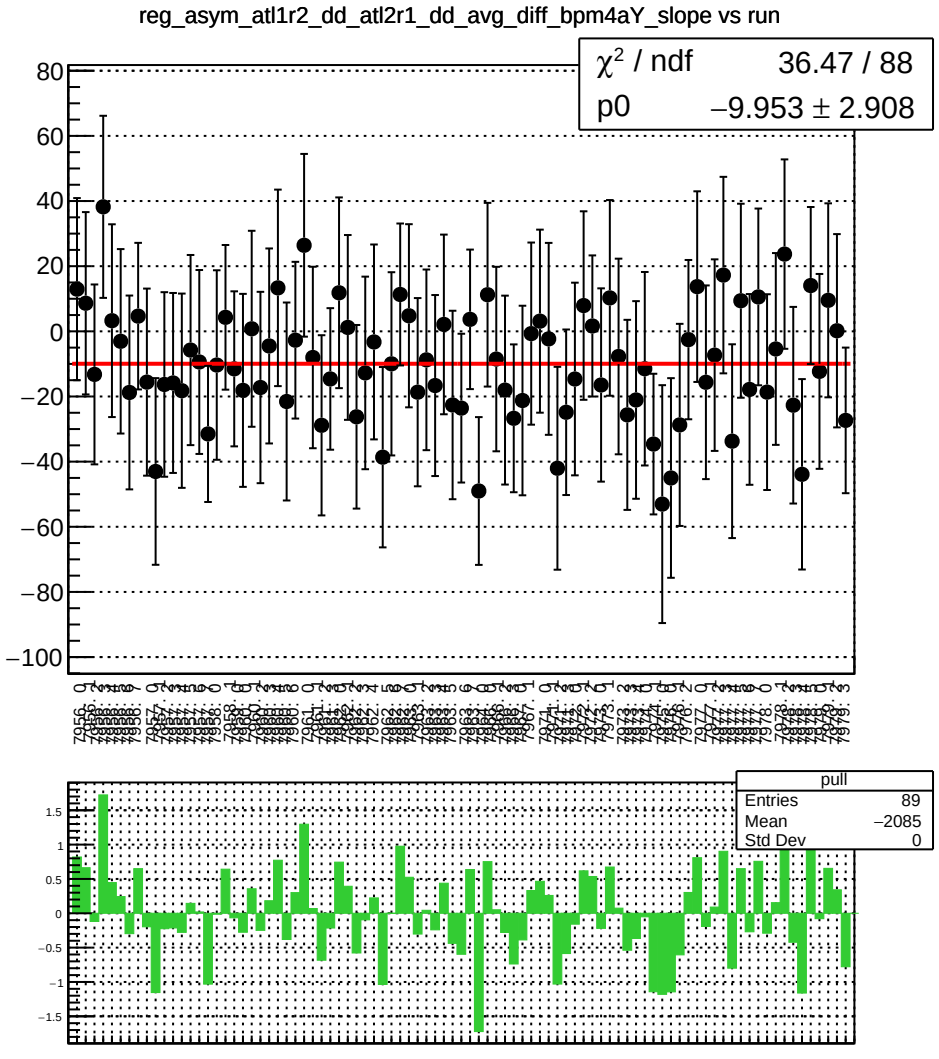

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.14 / 88
p0 −5.231 ± 9.214
pull
Entries 89
Mean 520.8
Std Dev 0

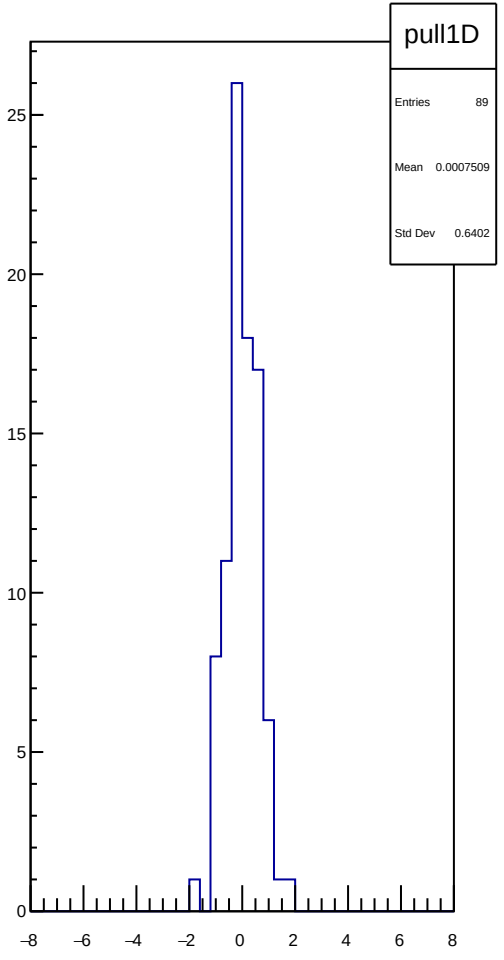

pull1D
Entries 89
Mean −0.002347
Std Dev 0.2626

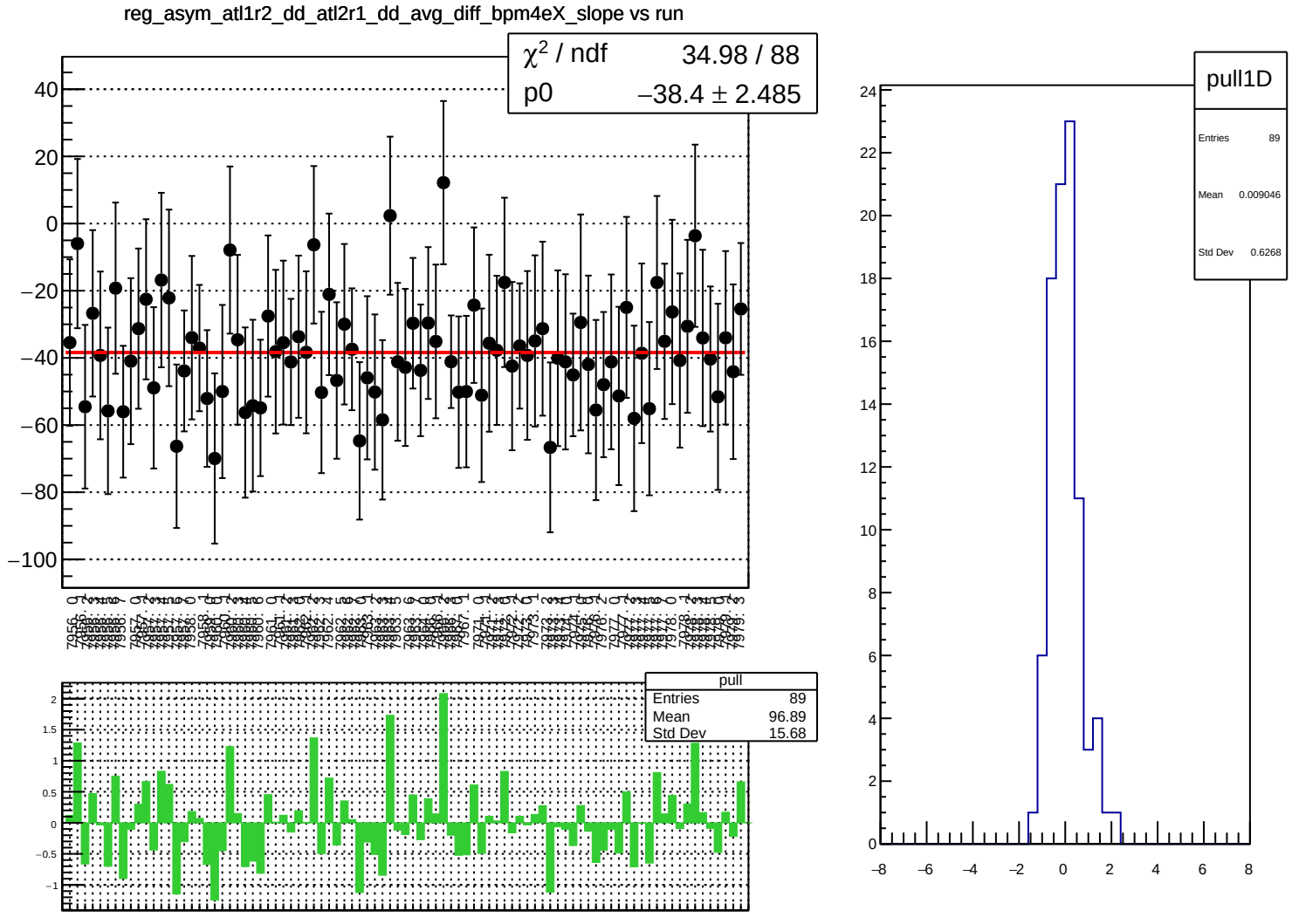

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 19.05 / 88
p0 122.3 ± 0.2661
pull
Entries 89
Mean 277.9
Std Dev 0
pull1D
Entries 89
Mean −0.01246
Std Dev 0.4625

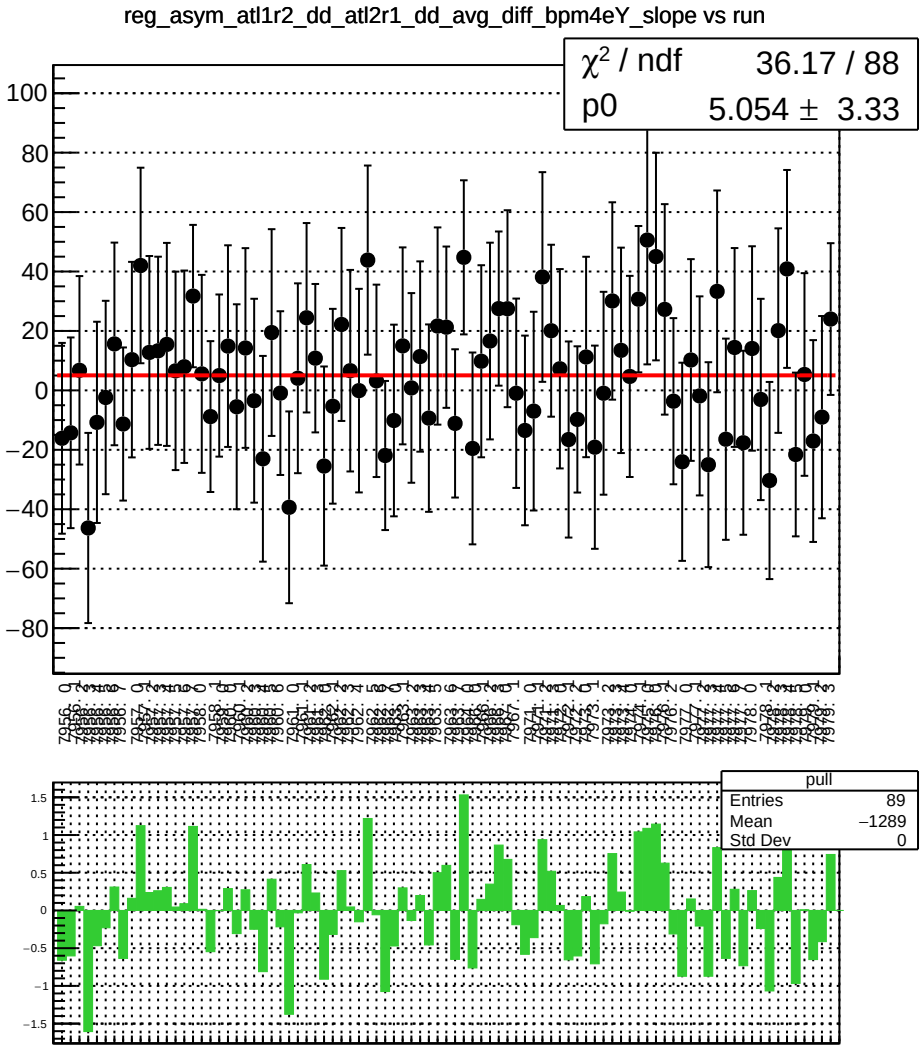

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 35.01 / 88
p0 17.77 ± 2.804
pull
Entries 89
Mean 128
Std Dev 0

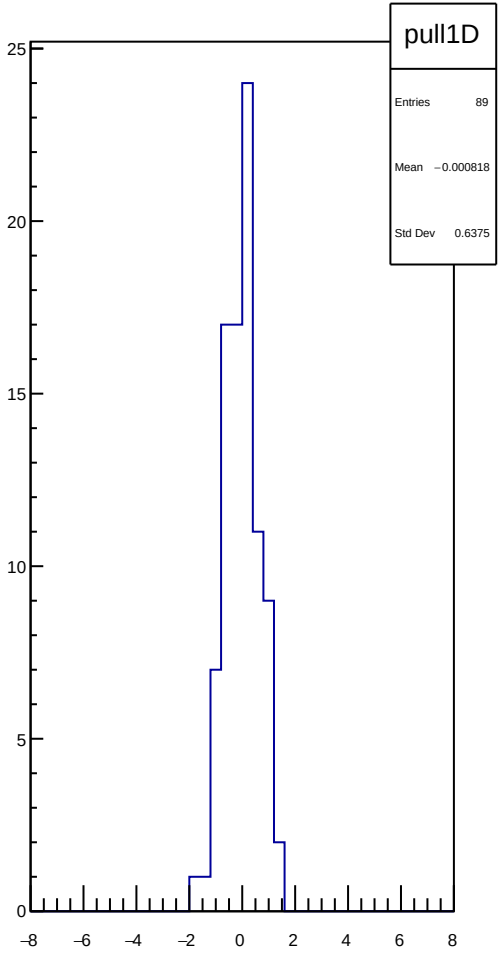

pull1D
Entries 89
Mean −0.01206
Std Dev 0.627

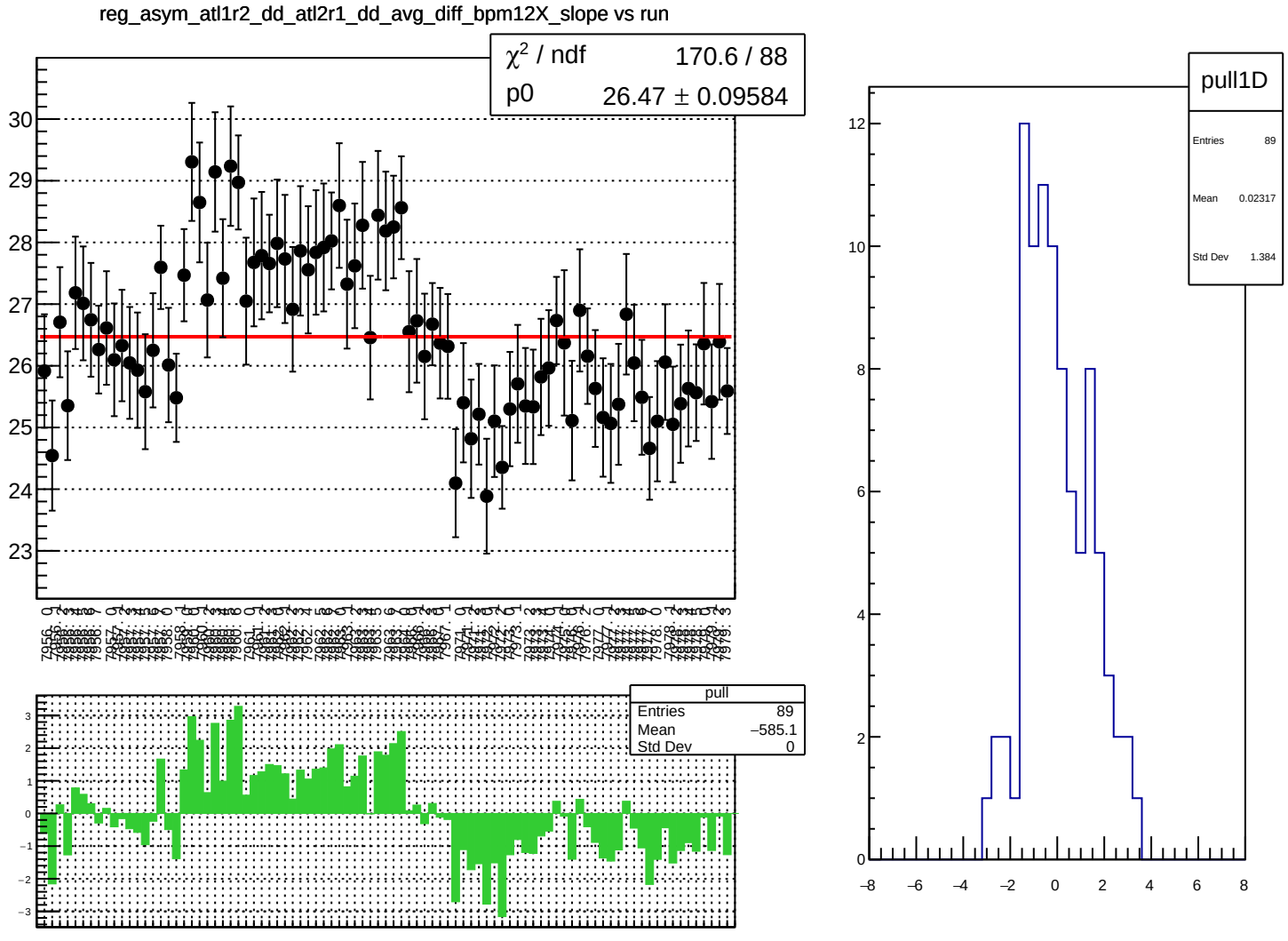

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.47 / 88
p0 −9.953 ± 2.908
pull
Entries 89
Mean −2085
Std Dev 0

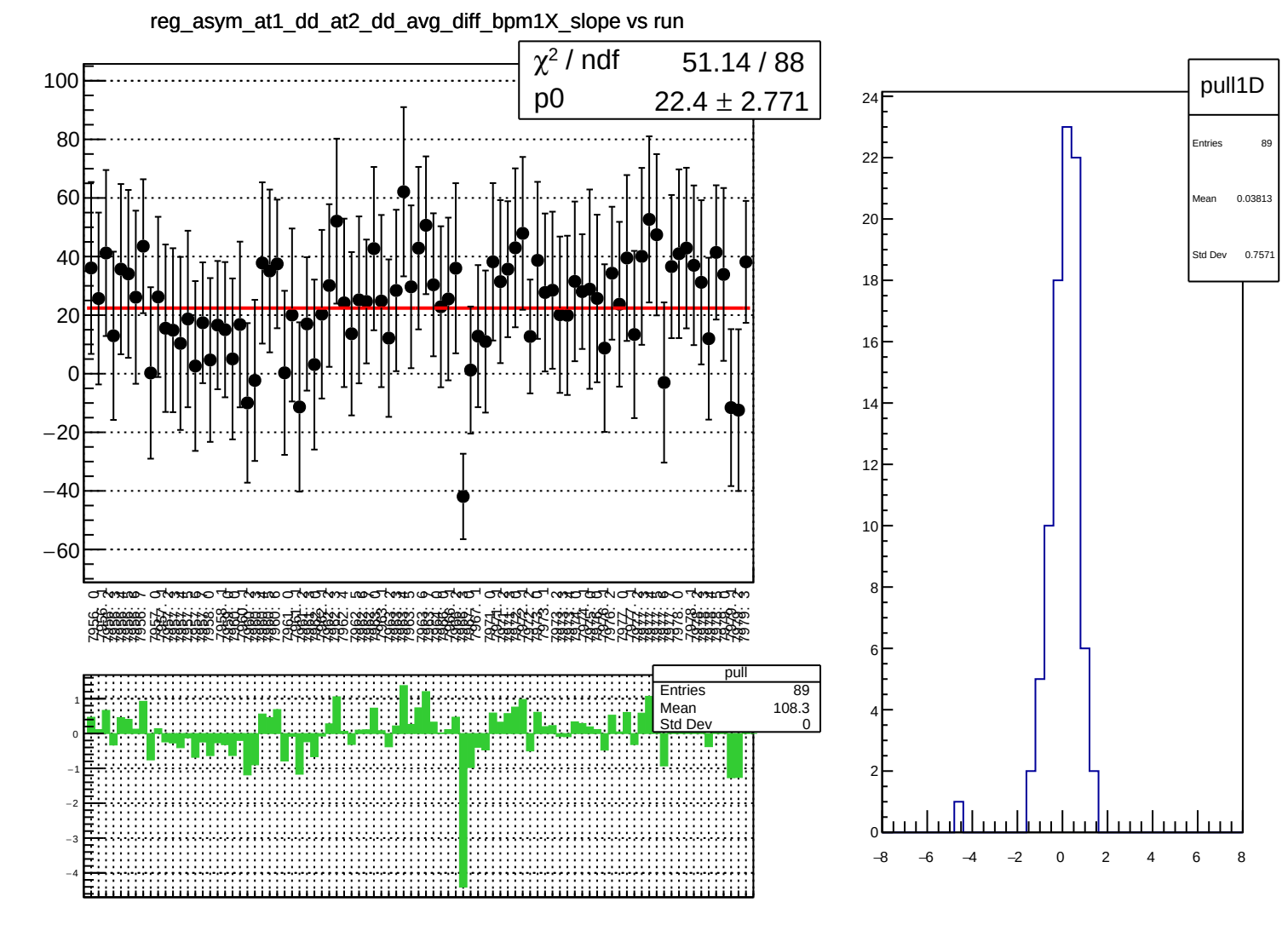

pull1D
Entries 89
Mean 0.0007509
Std Dev 0.6402

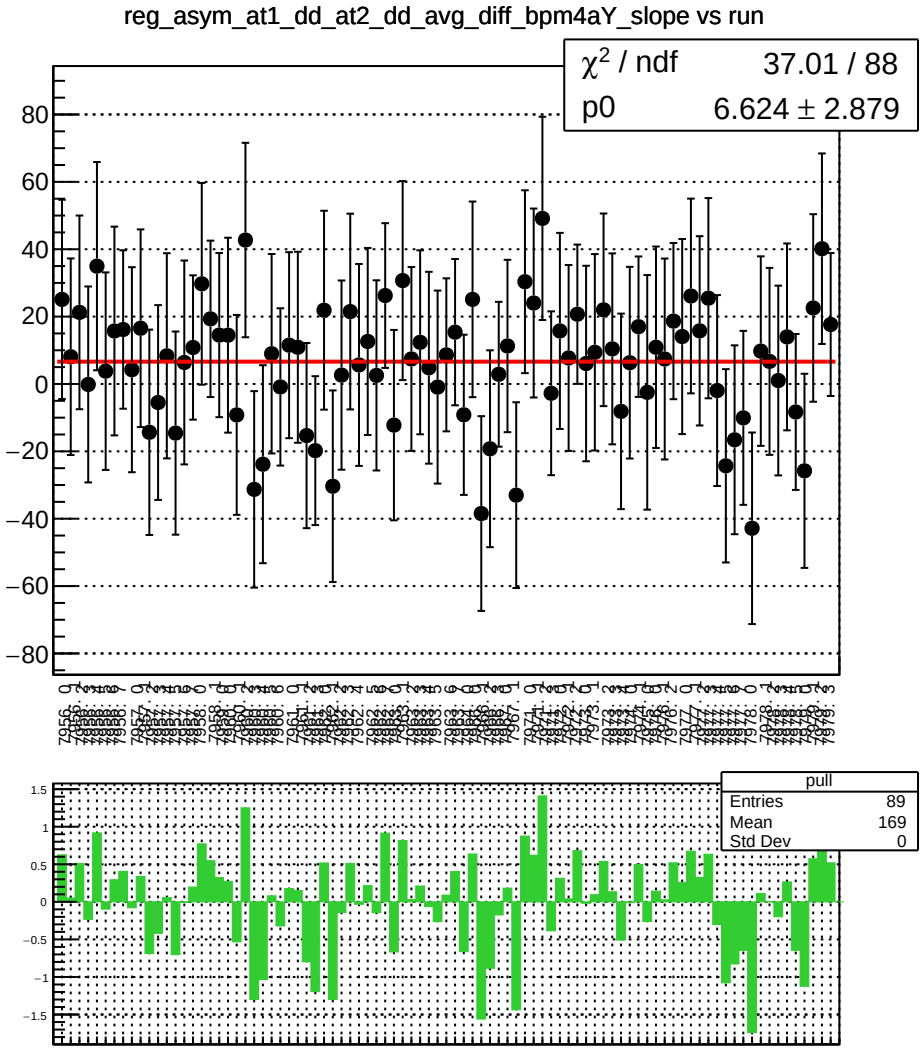

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.98 / 88
p0 −38.4 ± 2.485
pull
Entries 89
Mean 96.89
Std Dev 15.68
pull1D
Entries 89
Mean 0.009046
Std Dev 0.6268

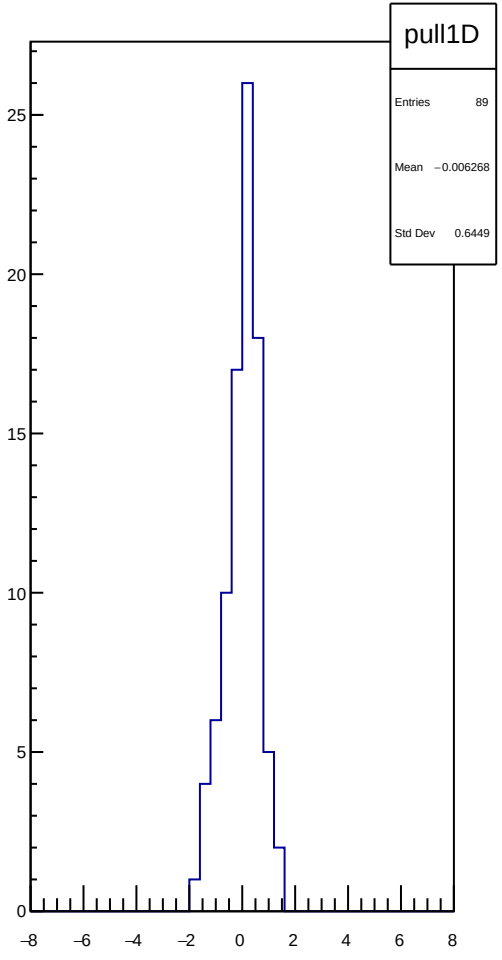

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.17 / 88
p0 5.054 ± 3.33
pull
Entries 89
Mean −1289
Std Dev 0

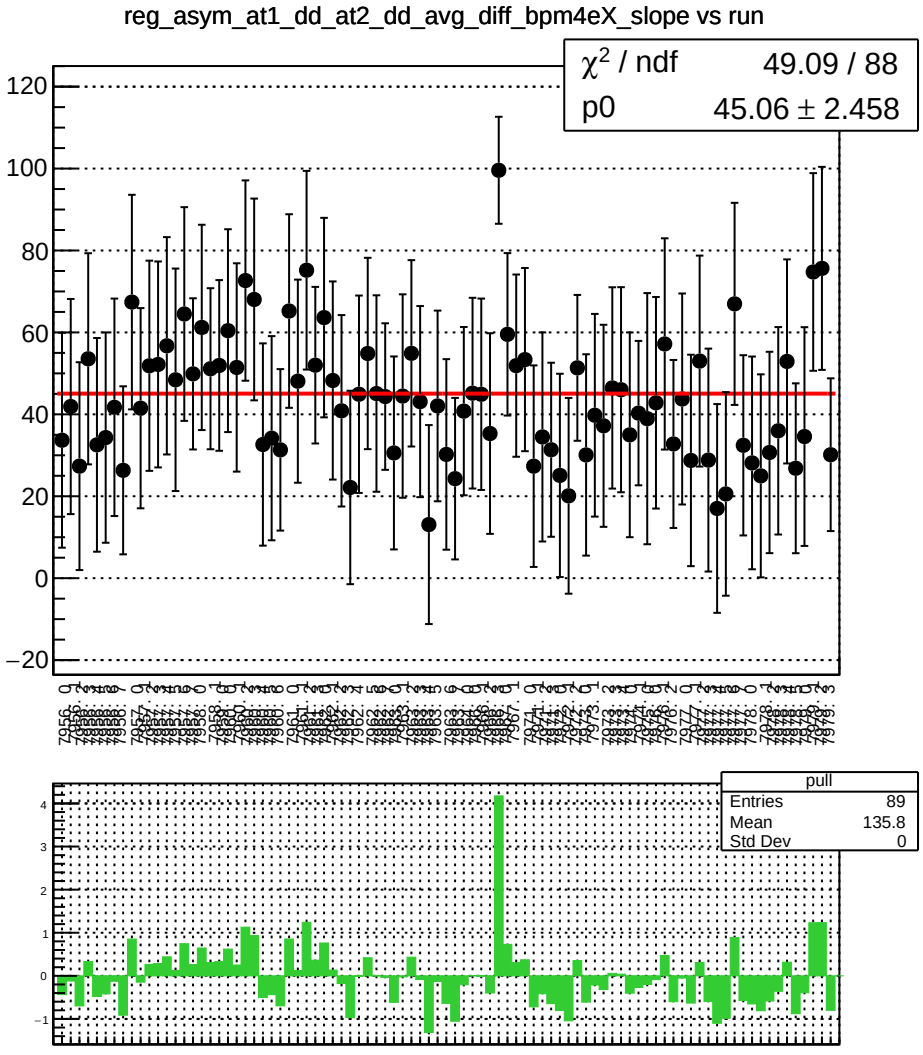

pull1D
Entries 89
Mean −0.000818
Std Dev 0.6375

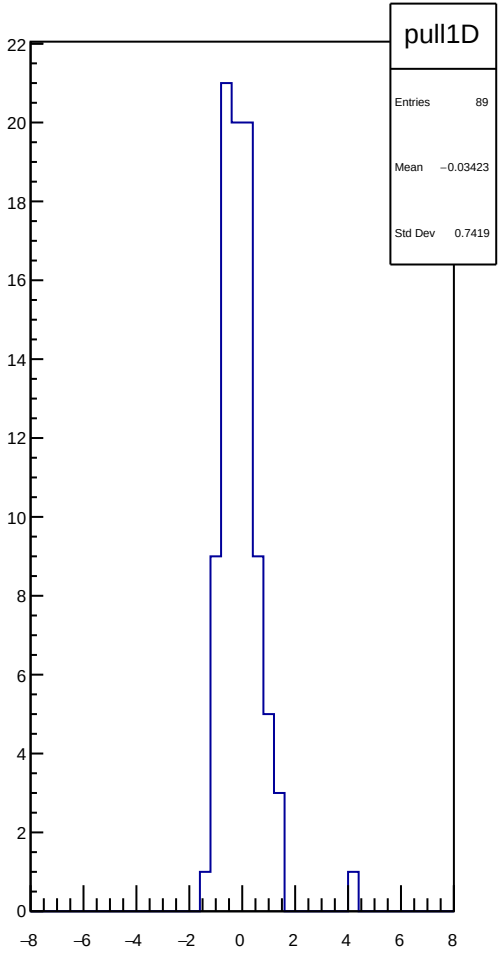

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 170.6 / 88
p0 26.47 ± 0.09584
pull
Entries 89
Mean −585.1
Std Dev 0
pull1D
Entries 89
Mean 0.02317
Std Dev 1.384

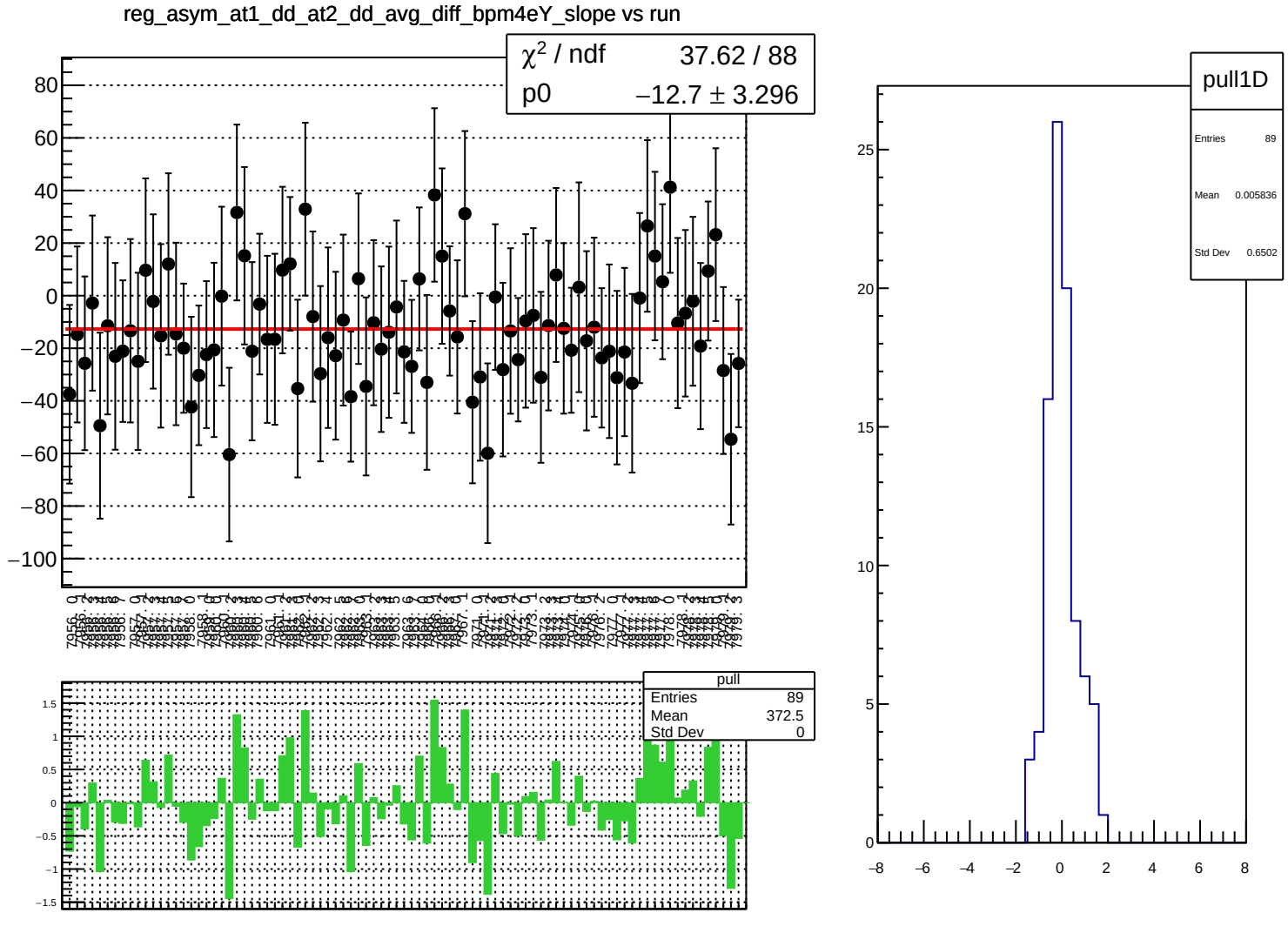

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 51.14 / 88
p0 22.4 ± 2.771
pull
Entries 89
Mean 108.3
Std Dev 0
pull1D
Entries 89
Mean 0.03813
Std Dev 0.7571

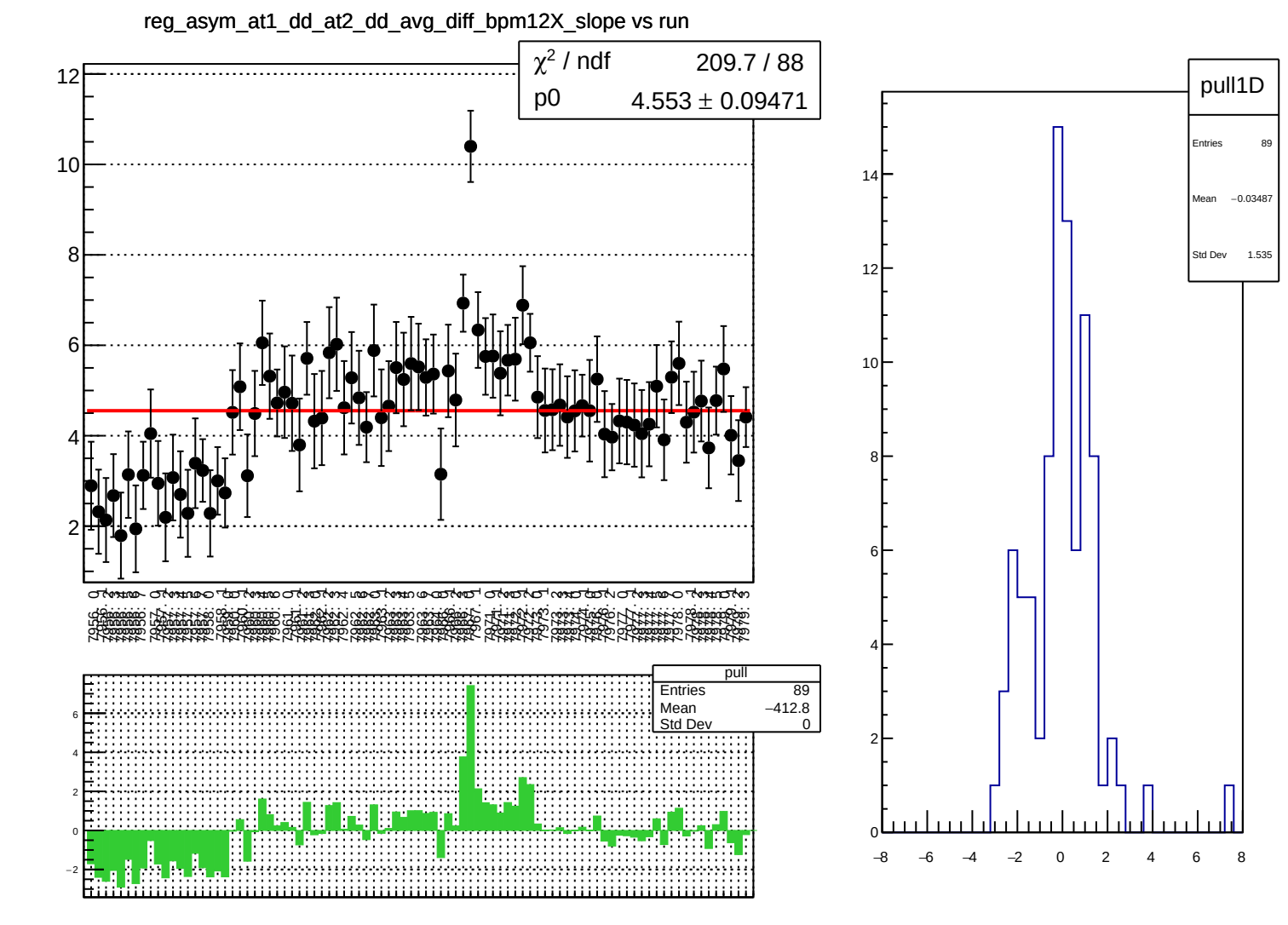

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.01 / 88
p0 6.624 ± 2.879
pull
Entries 89
Mean 169
Std Dev 0

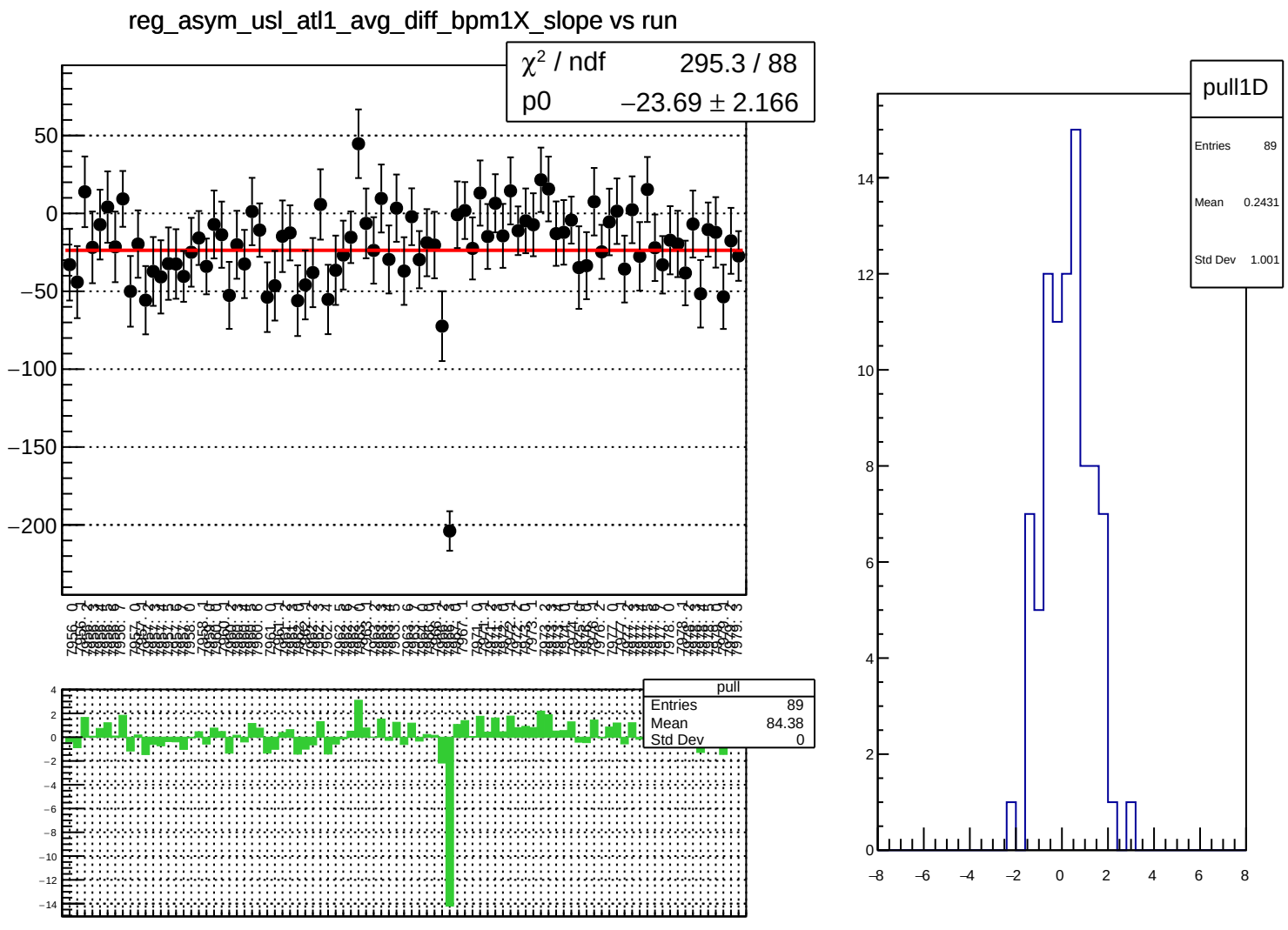

pull1D
Entries 89
Mean −0.006268
Std Dev 0.6449

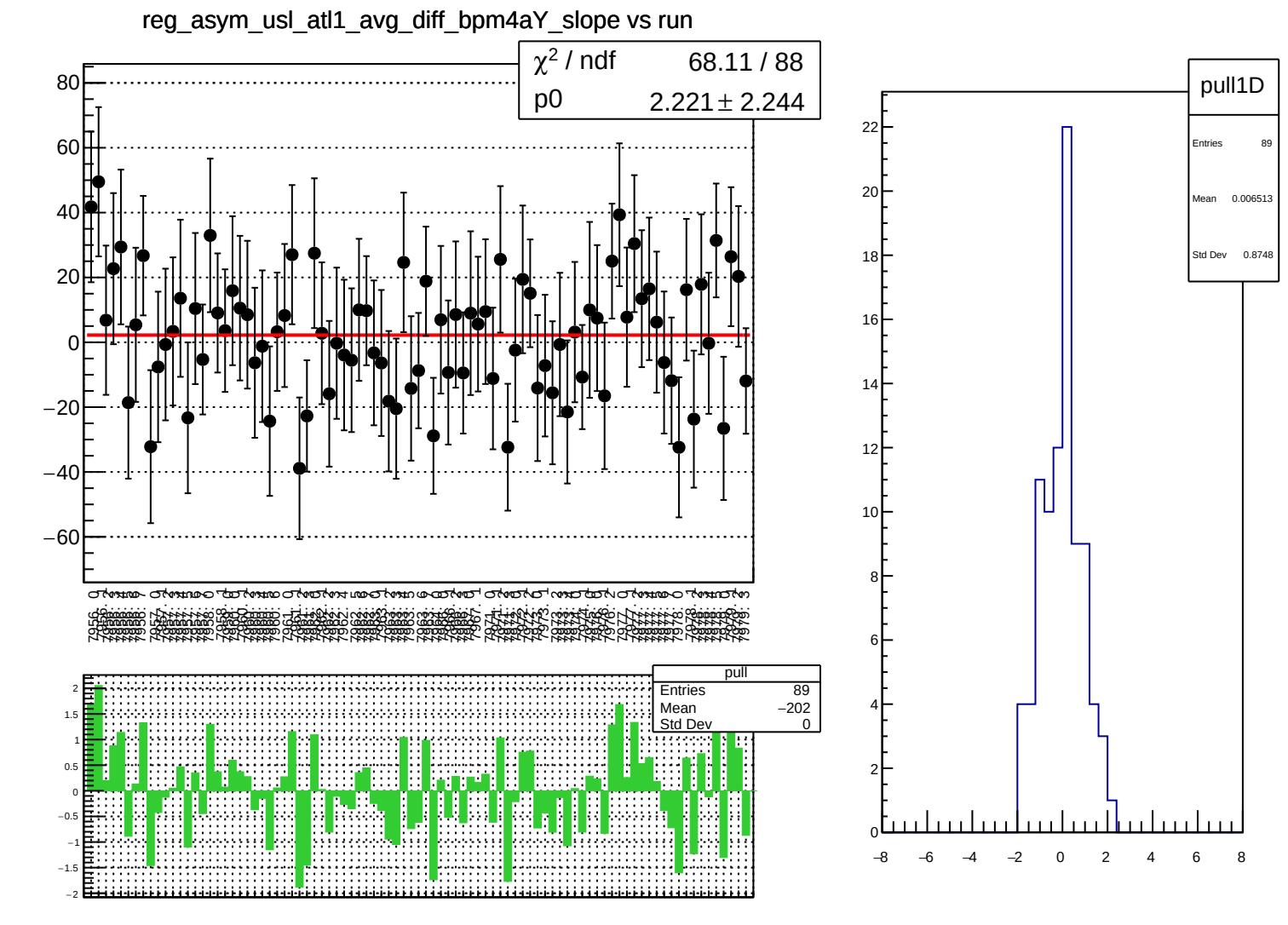

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.09 / 88
p0 45.06 ± 2.458
pull
Entries 89
Mean 135.8
Std Dev 0

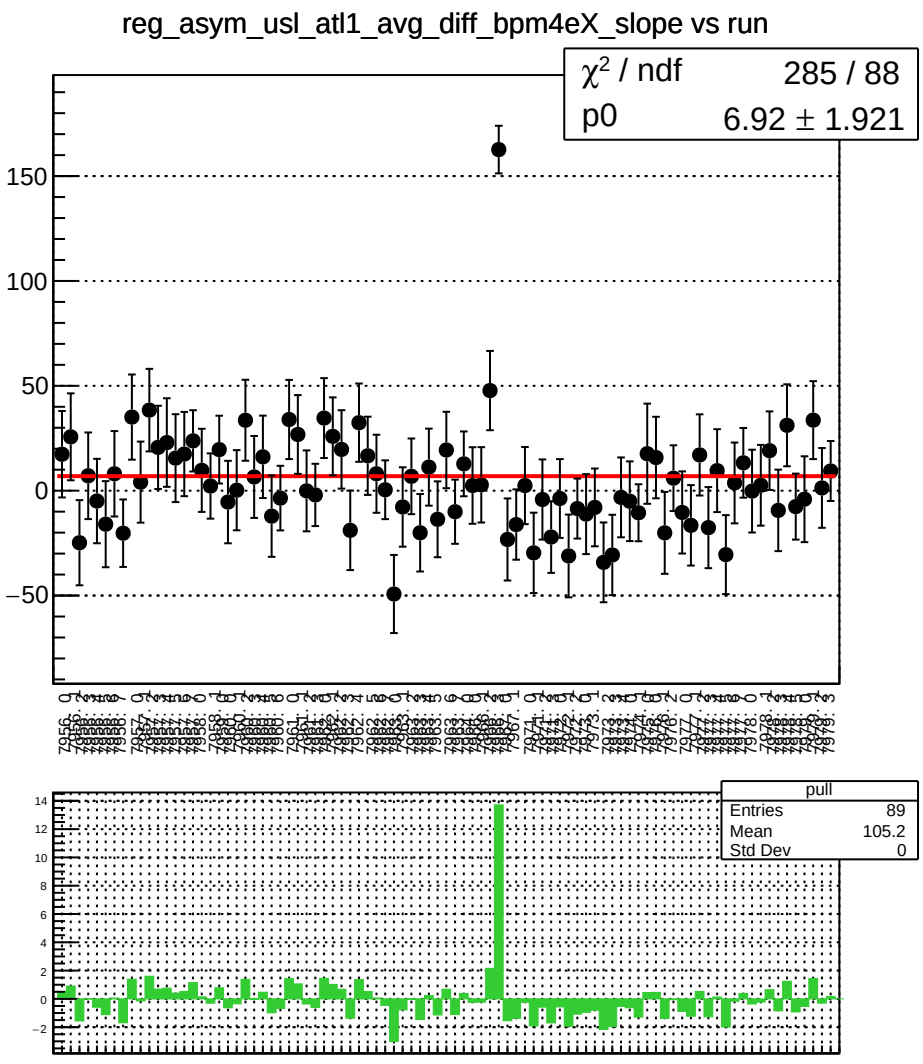

pull1D
Entries 89
Mean −0.03423
Std Dev 0.7419

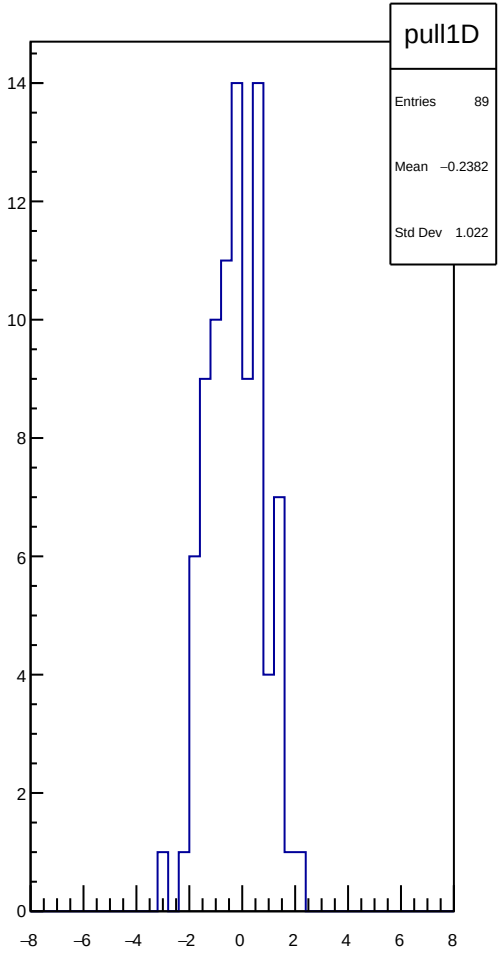

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.62 / 88
p0 −12.7 ± 3.296
pull
Entries 89
Mean 372.5
Std Dev 0
pull1D
Entries 89
Mean 0.005836
Std Dev 0.6502

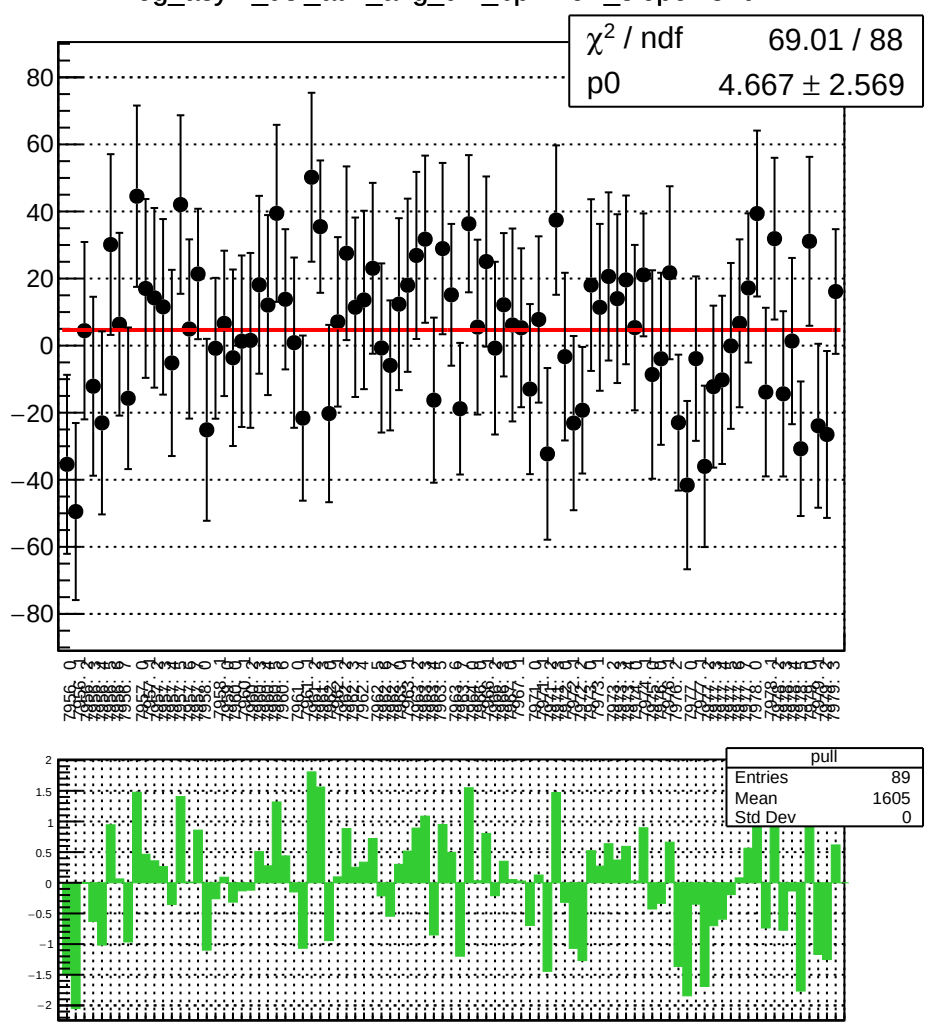

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 209.7 / 88
p0 4.553 ± 0.09471
pull
Entries 89
Mean −412.8
Std Dev 0
pull1D
Entries 89
Mean −0.03487
Std Dev 1.535

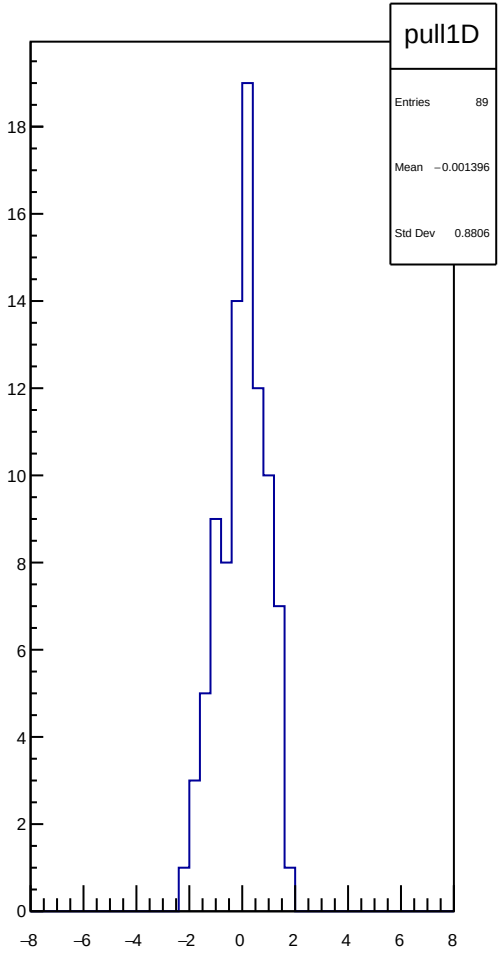

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 295.3 / 88
p0 −23.69 ± 2.166
pull
Entries 89
Mean 84.38
Std Dev 0
pull1D
Entries 89
Mean 0.2431
Std Dev 1.001

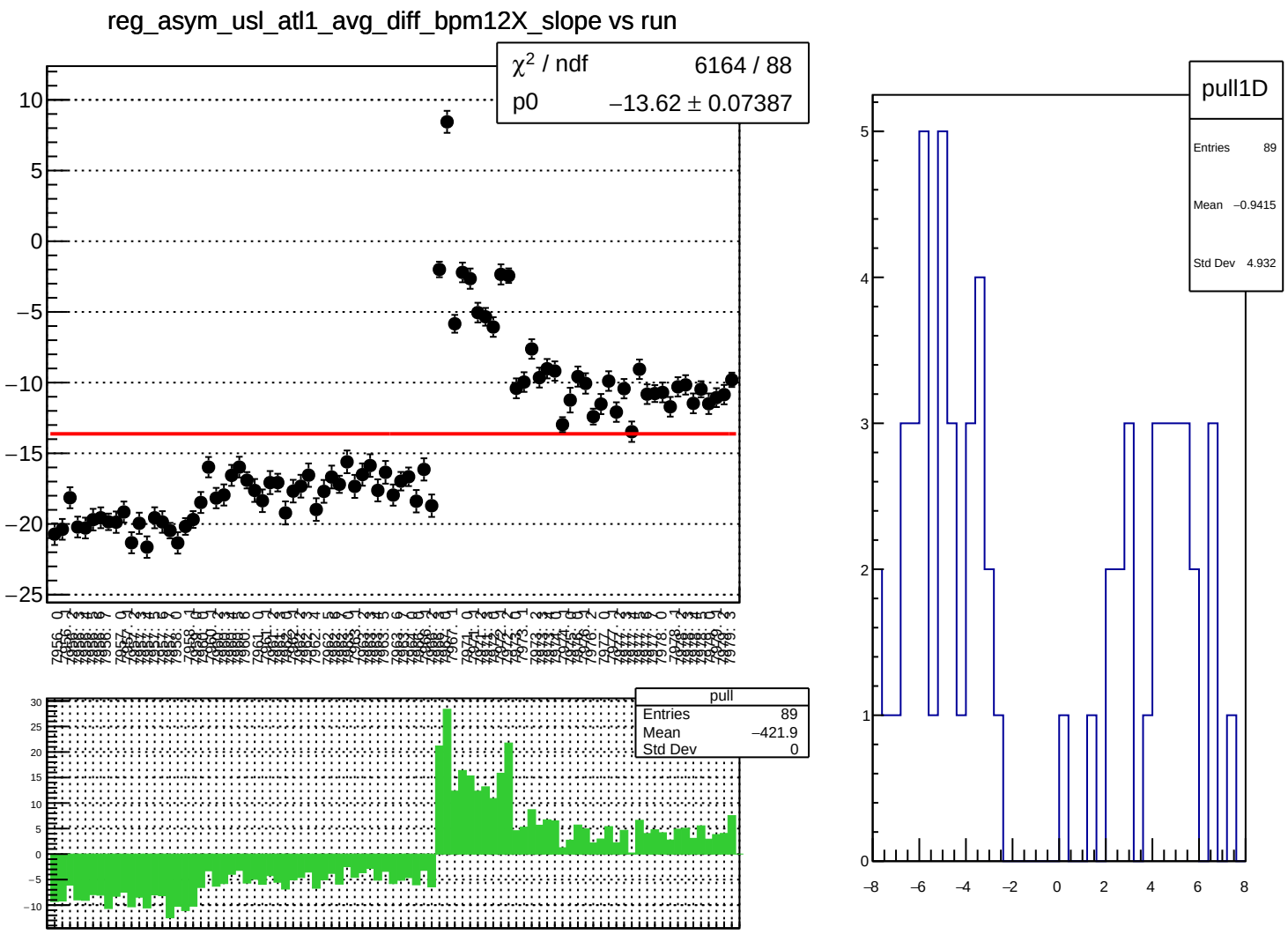

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 68.11 / 88
p0 2.221 ± 2.244
pull
Entries 89
Mean −202
Std Dev 0
pull1D
Entries 89
Mean 0.006513
Std Dev 0.8748

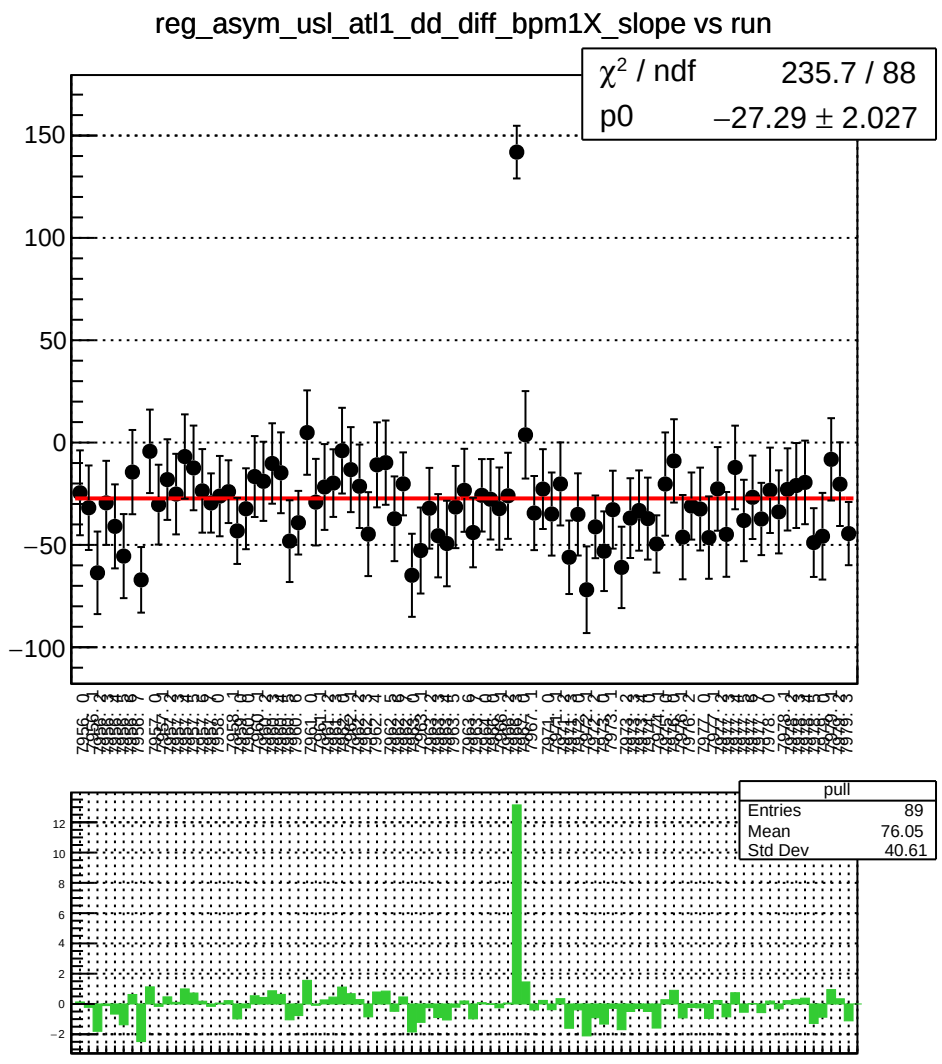

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 285 / 88
p0 6.92 ± 1.921
150
100
50
0
−50
pull
Entries 89
Mean 105.2
Std Dev 0
14
12
10
8
6
4
2
0
−2

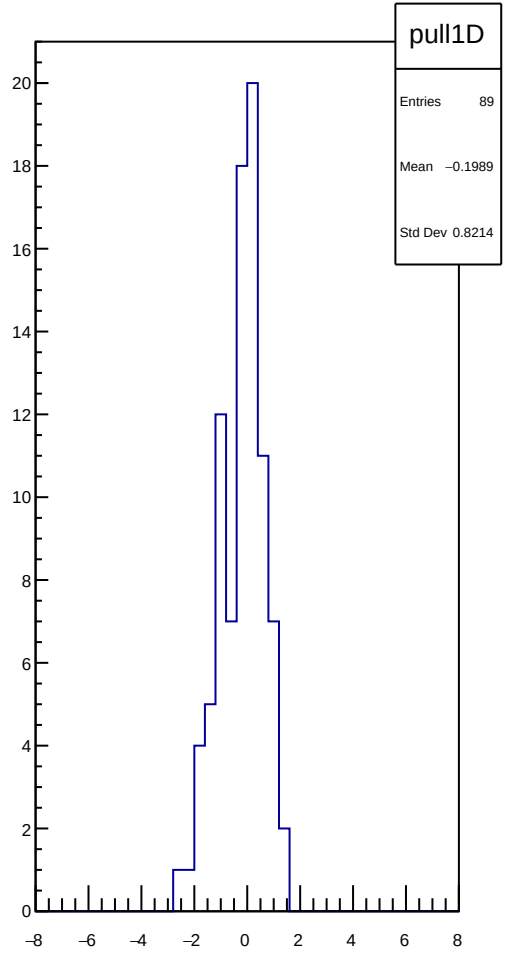

pull1D
Entries 89
Mean −0.2382
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

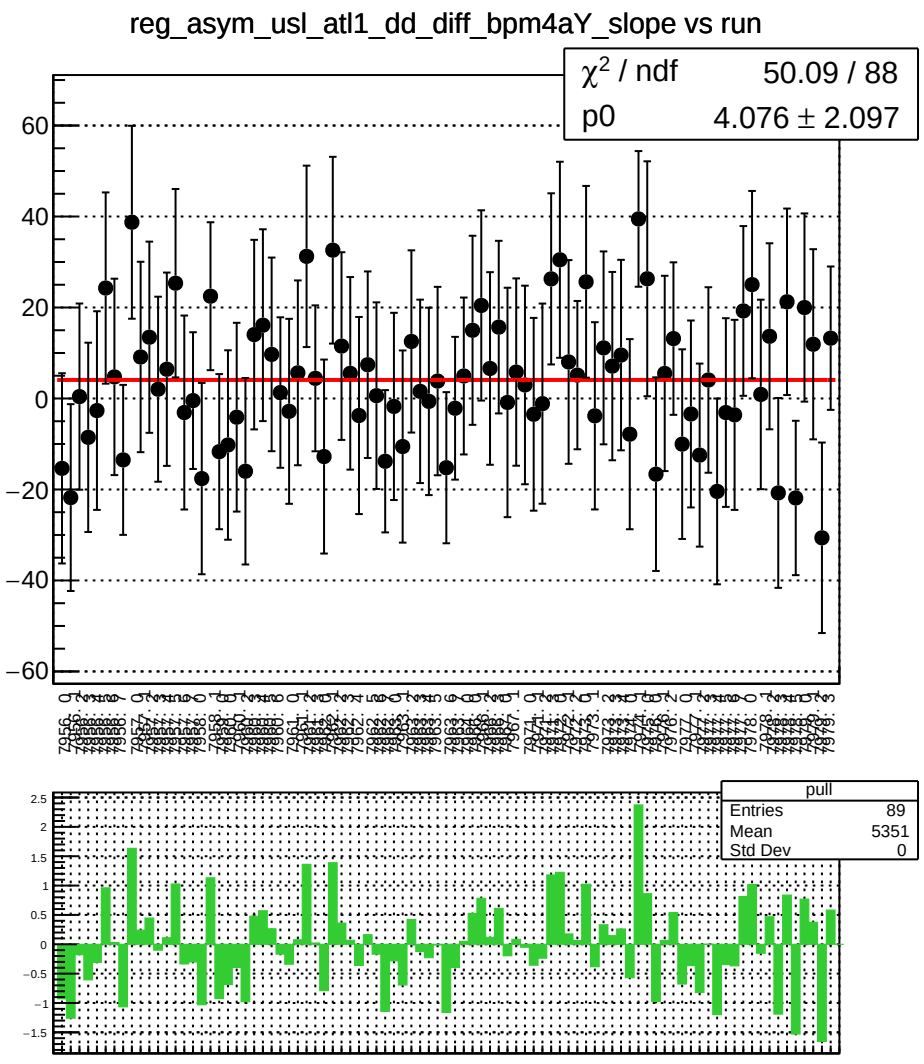

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.01 / 88
p0 4.667 ± 2.569
pull
Entries 89
Mean 1605
Std Dev 0

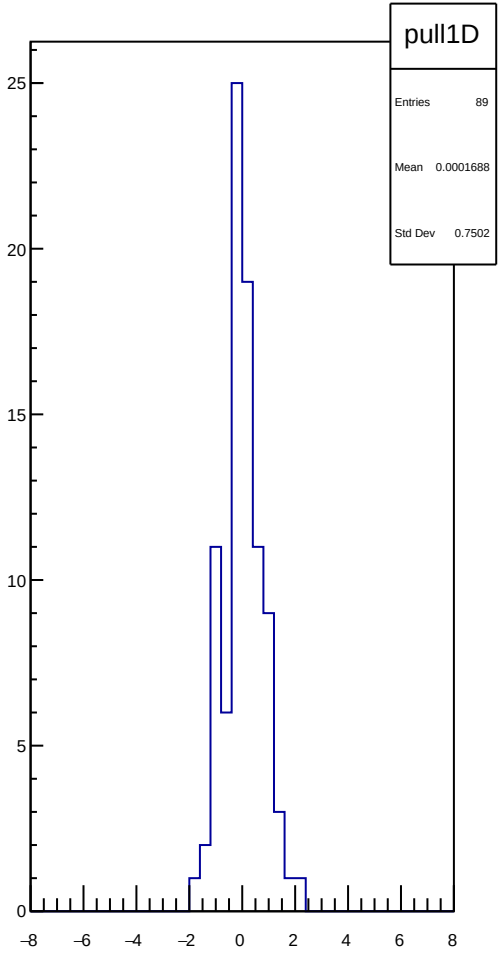

pull1D
Entries 89
Mean −0.001396
Std Dev 0.8806

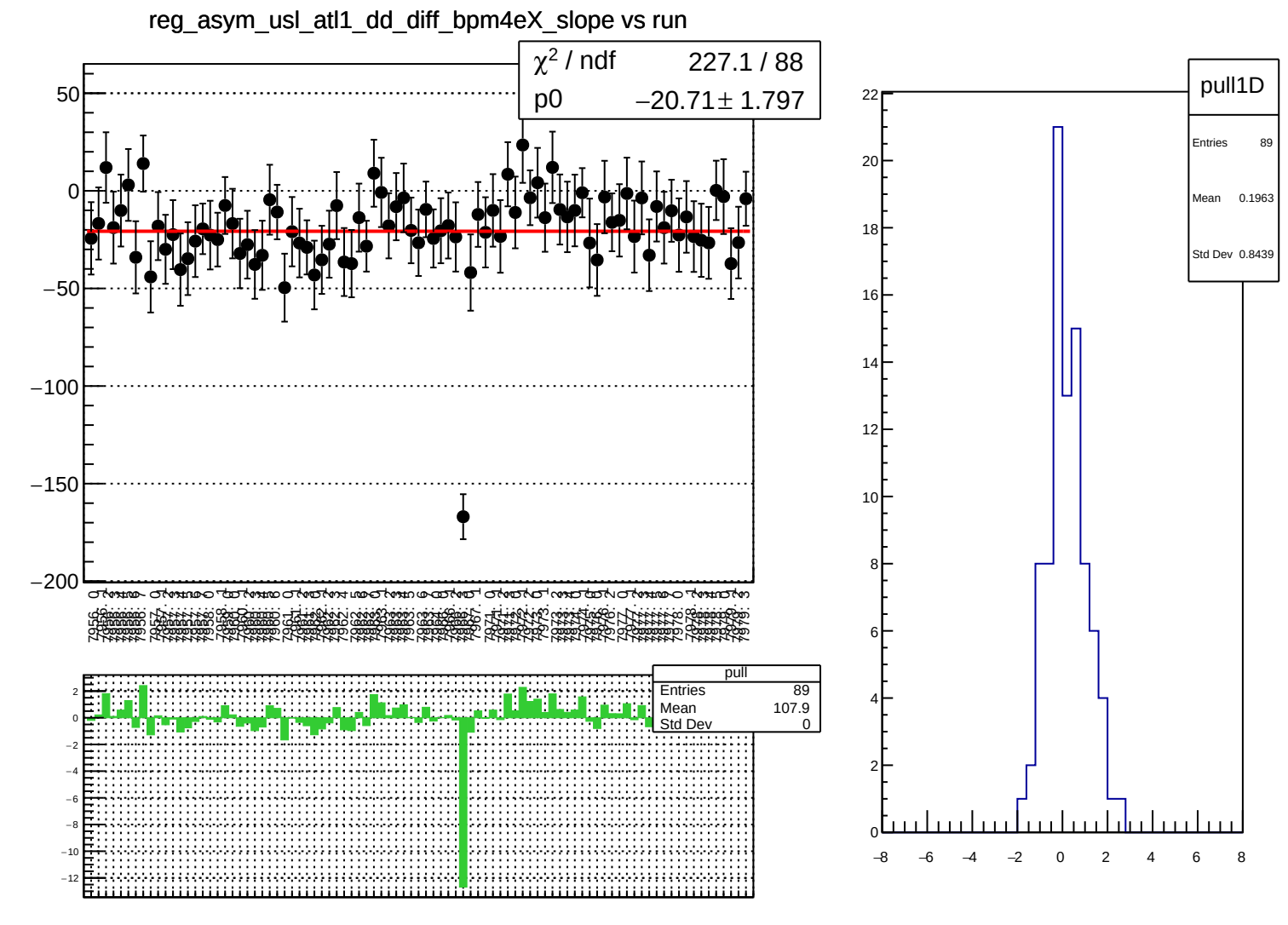

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 6164 / 88
p0 −13.62 ± 0.07387
pull
Entries 89
Mean −421.9
Std Dev 0
pull1D
Entries 89
Mean −0.9415
Std Dev 4.932

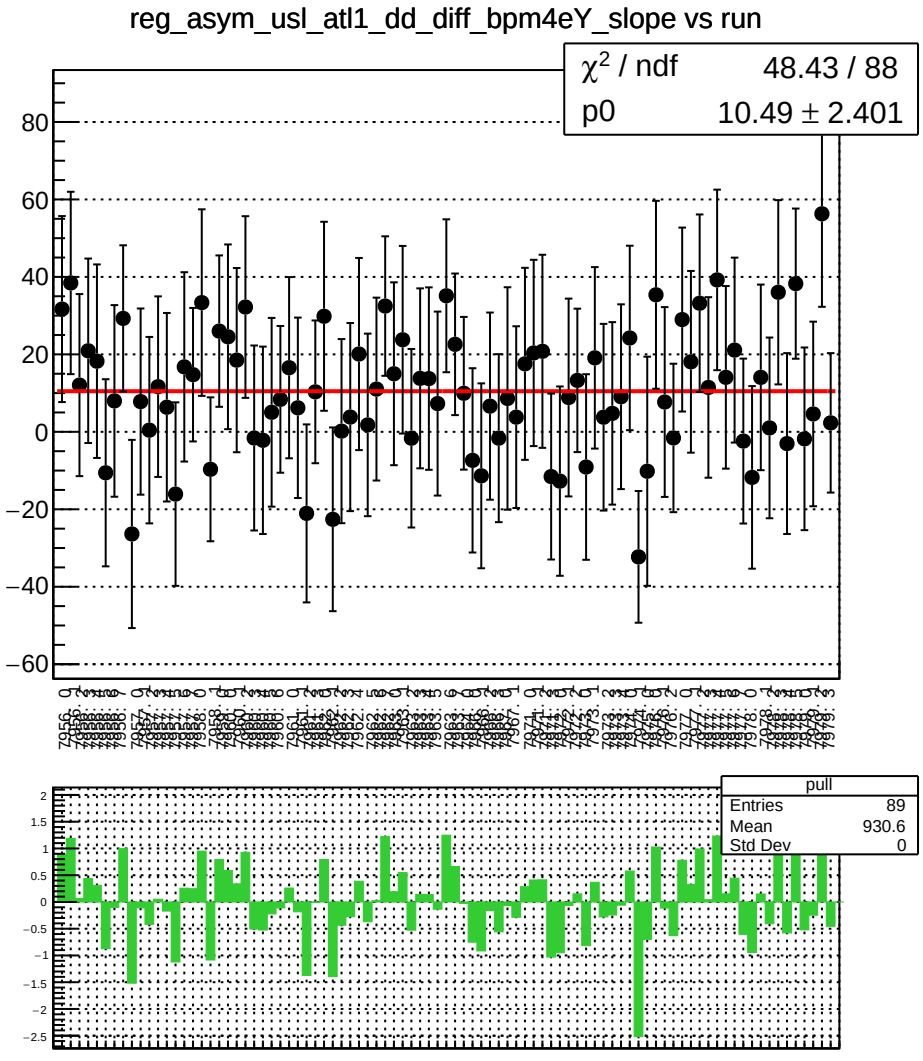

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 235.7 / 88
p0 −27.29 ± 2.027
150
100
50
0
−50
−100
pull
Entries 89
Mean 76.05
Std Dev 40.61
12
10
8
6
4
2
0
−2

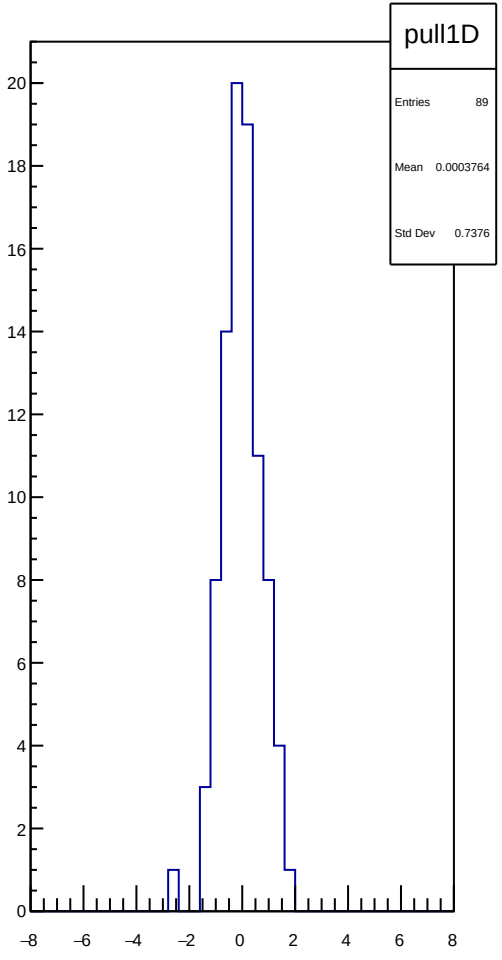

pull1D
Entries 89
Mean −0.1989
Std Dev 0.8214
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

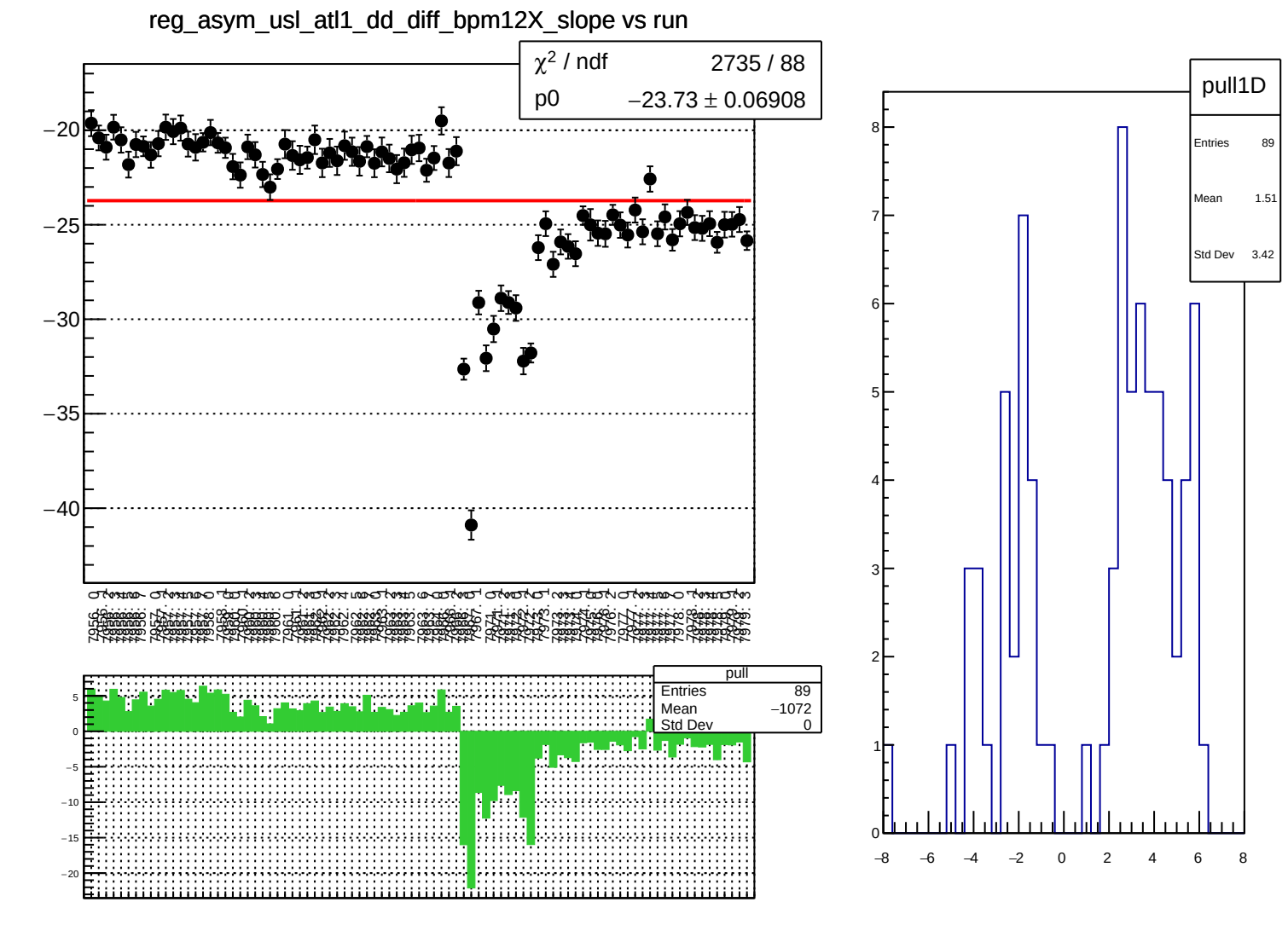

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.09 / 88
p0 4.076 ± 2.097
pull
Entries 89
Mean 5351
Std Dev 0

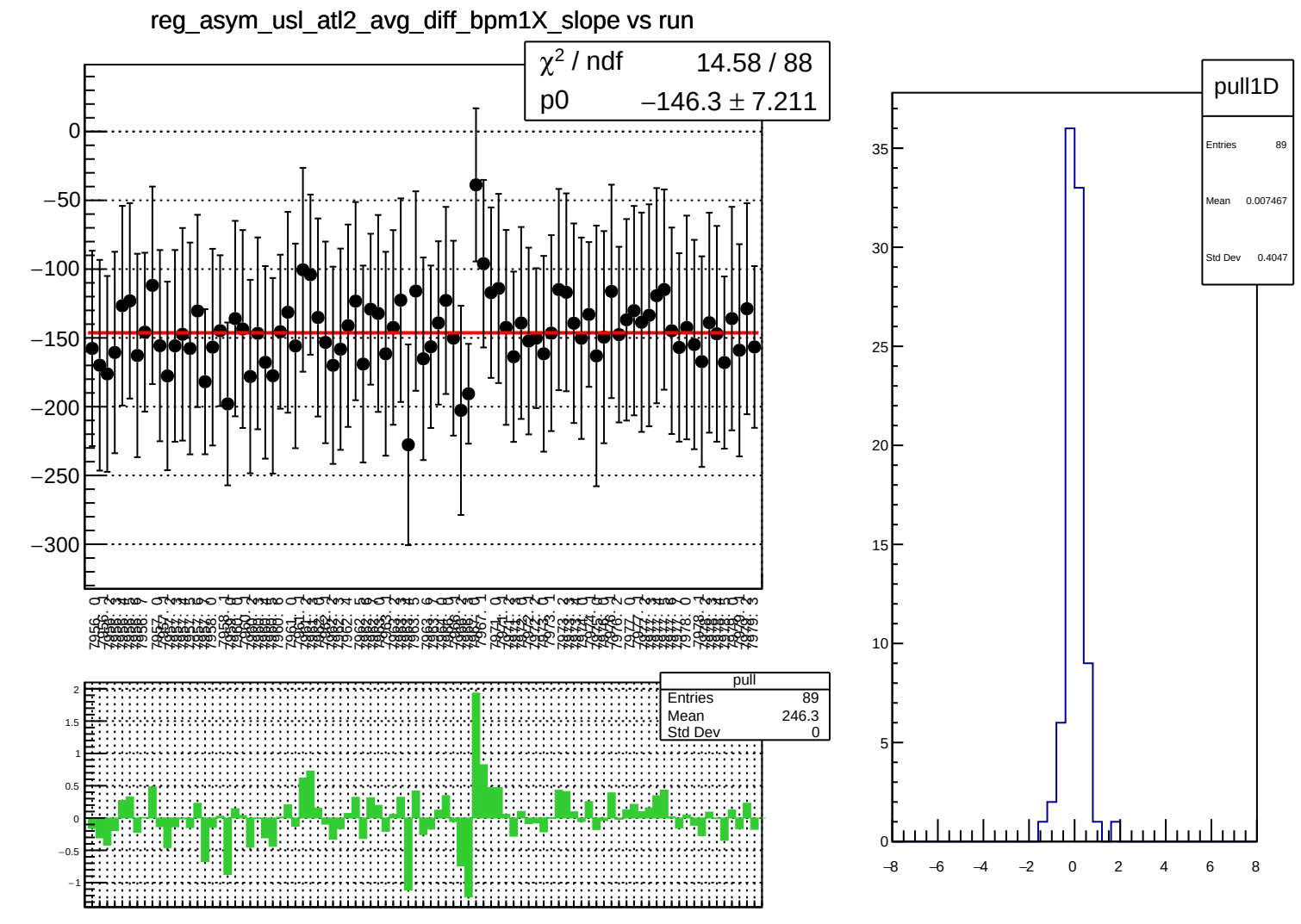

pull1D
Entries 89
Mean 0.0001688
Std Dev 0.7502

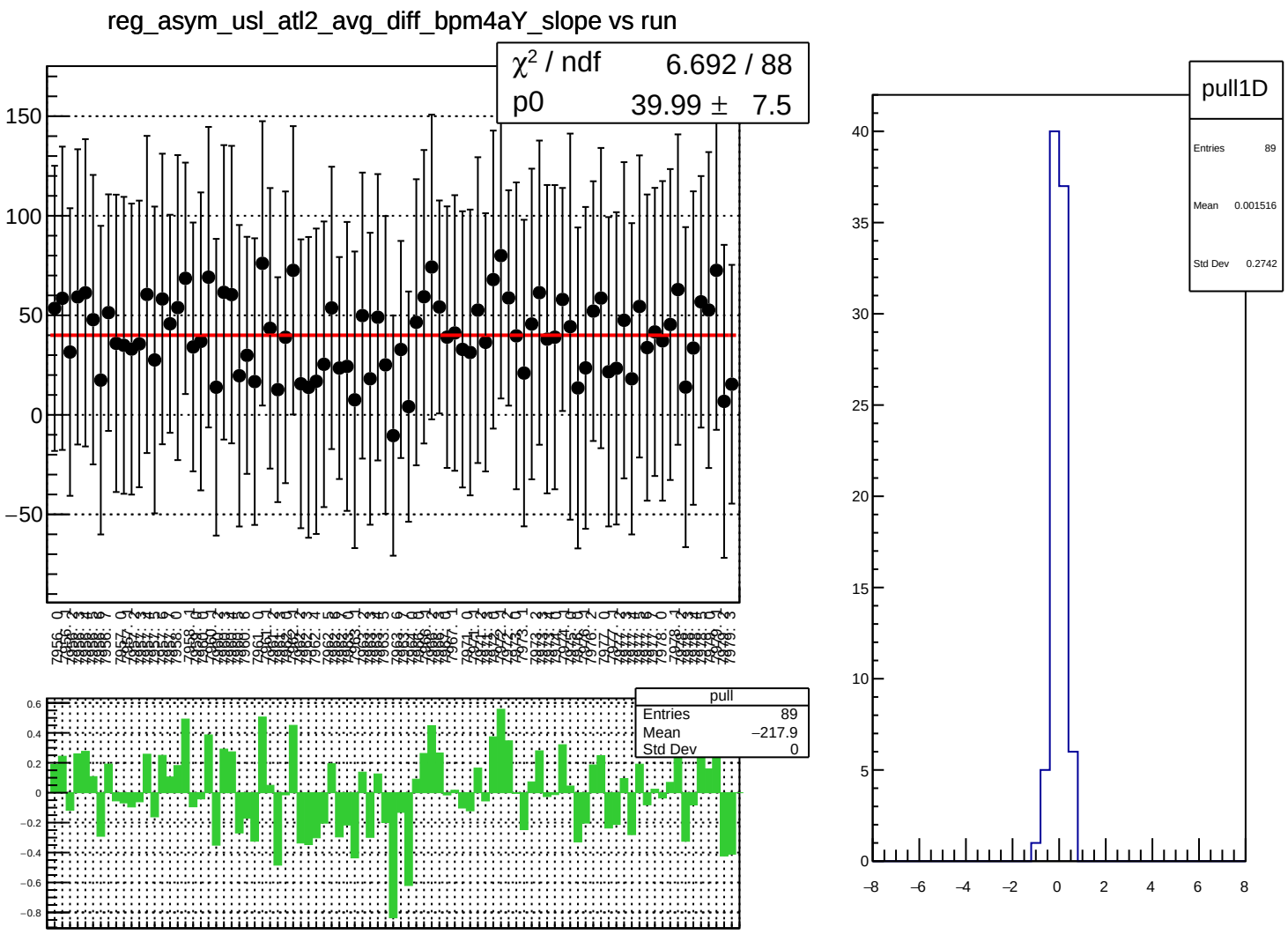

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 227.1 / 88
p0 −20.71± 1.797
pull
Entries 89
Mean 107.9
Std Dev 0
pull1D
Entries 89
Mean 0.1963
Std Dev 0.8439

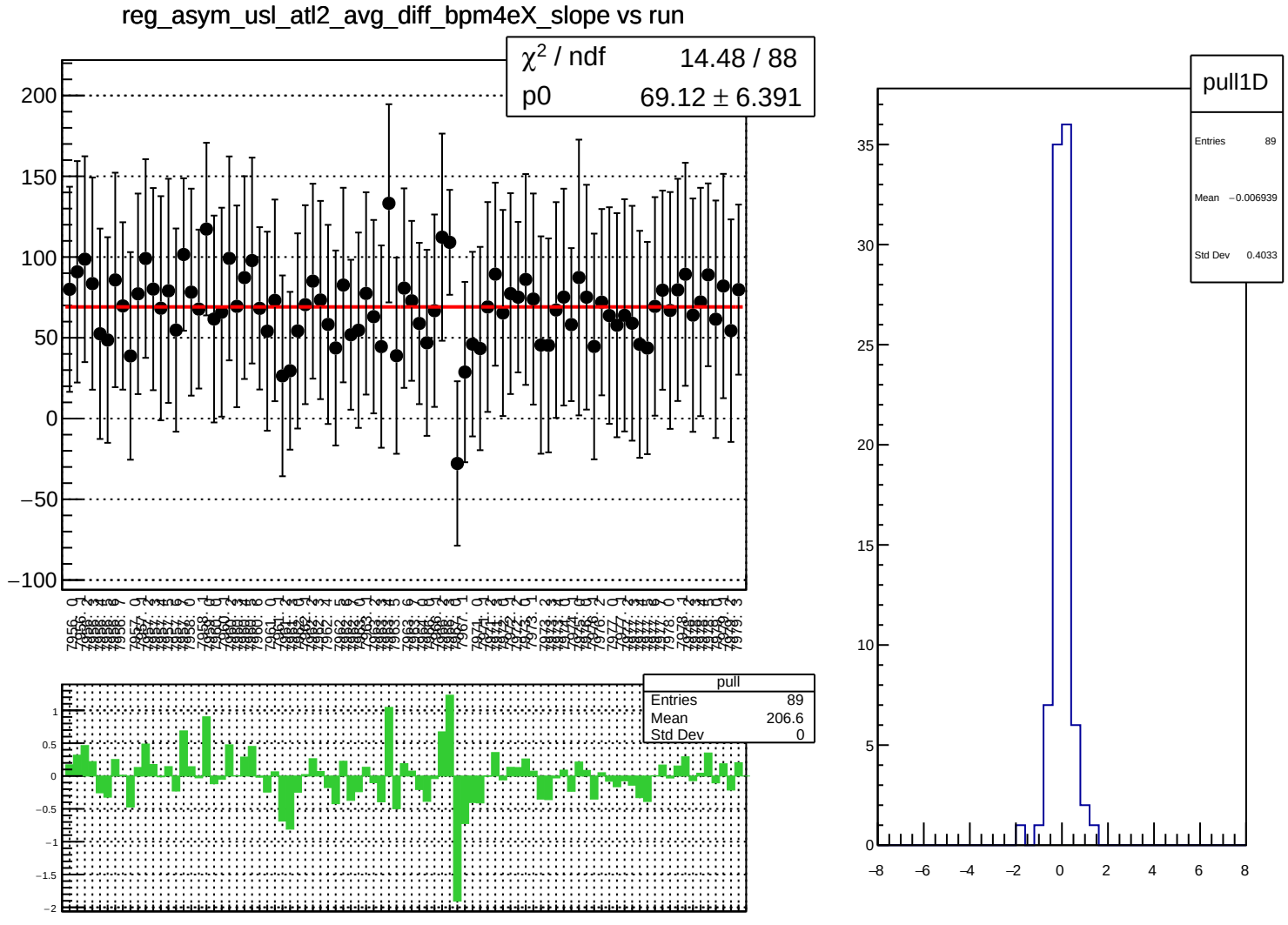

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.43 / 88
p0 10.49 ± 2.401
pull
Entries 89
Mean 930.6
Std Dev 0

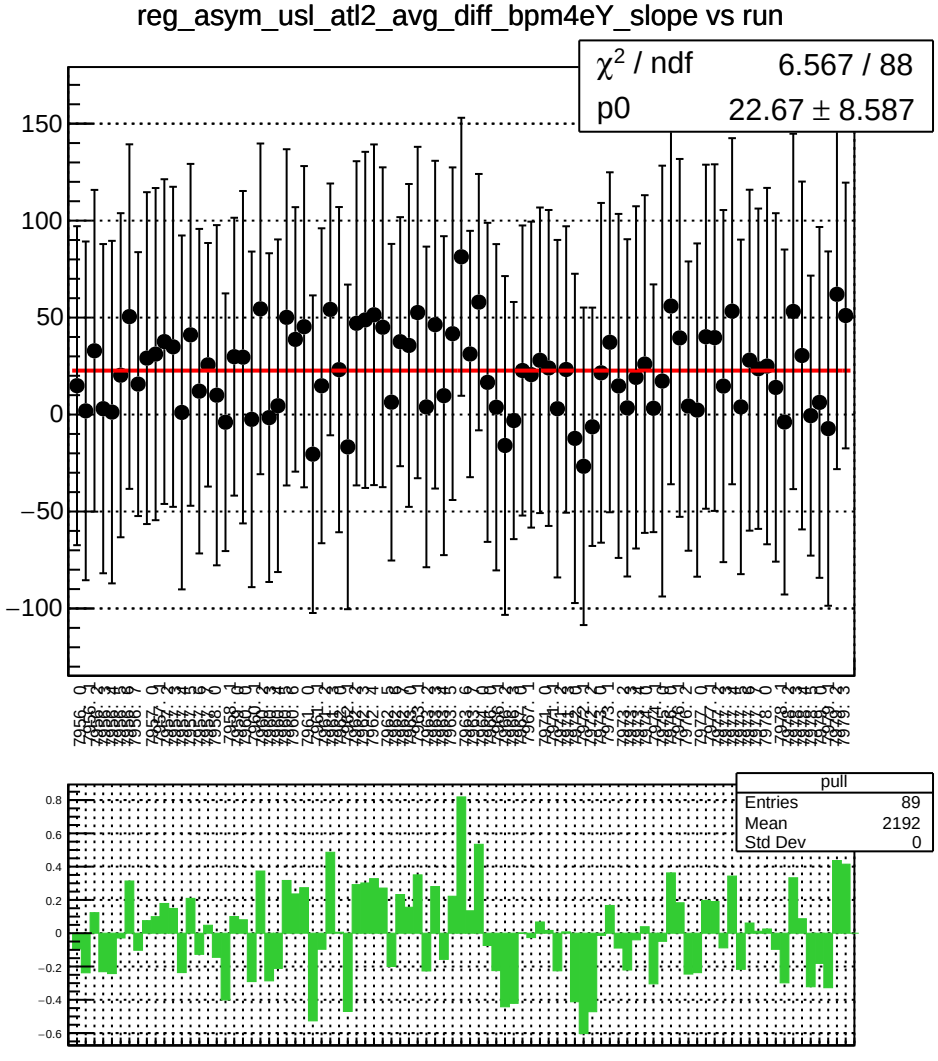

pull1D
Entries 89
Mean 0.0003764
Std Dev 0.7376

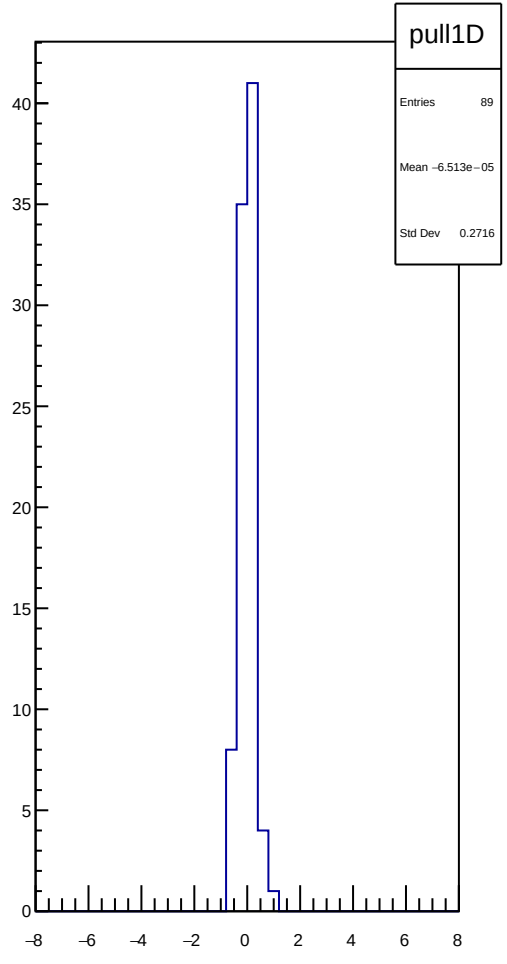

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 2735 / 88
p0 −23.73 ± 0.06908
pull
Entries 89
Mean −1072
Std Dev 0
pull1D
Entries 89
Mean 1.51
Std Dev 3.42

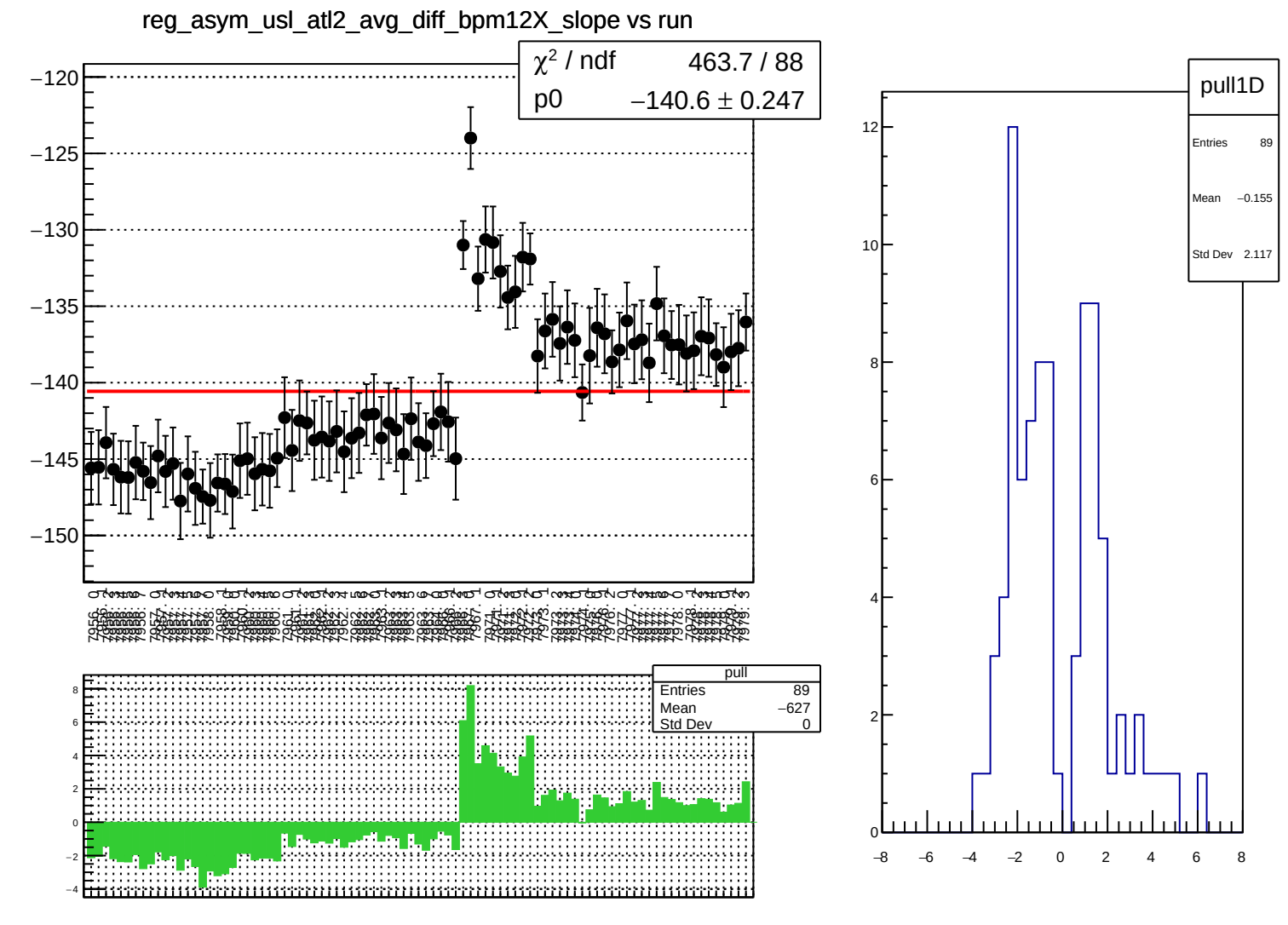

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 14.58 / 88
p0 −146.3 ± 7.211
0
−50
−100
−150
−200
−250
−300
pull
Entries 89
Mean 246.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.007467
Std Dev 0.4047
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

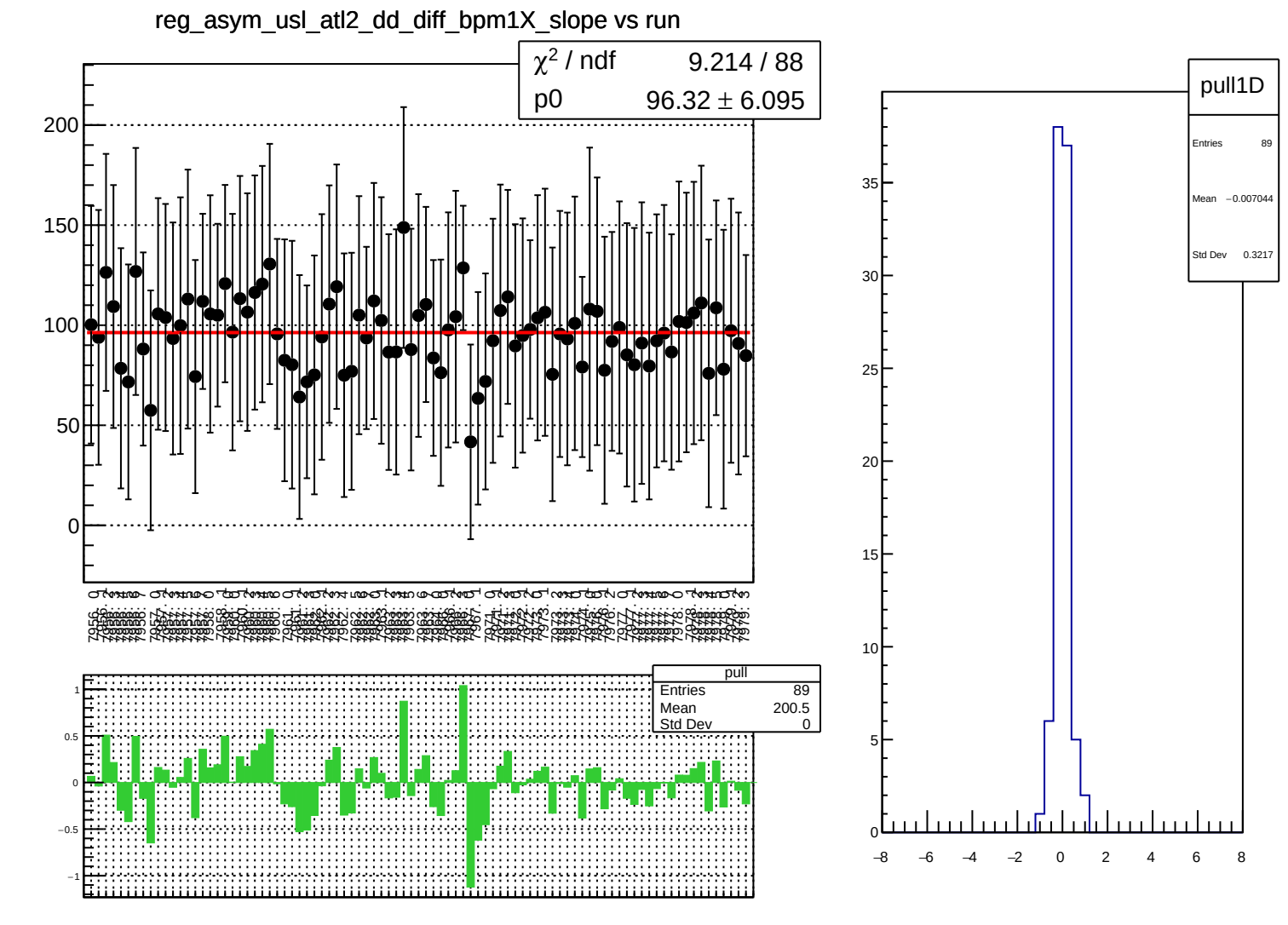

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.692 / 88
p0 39.99 ± 7.5
150
100
50
0
−50
pull
Entries 89
Mean −217.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean 0.001516
Std Dev 0.2742
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

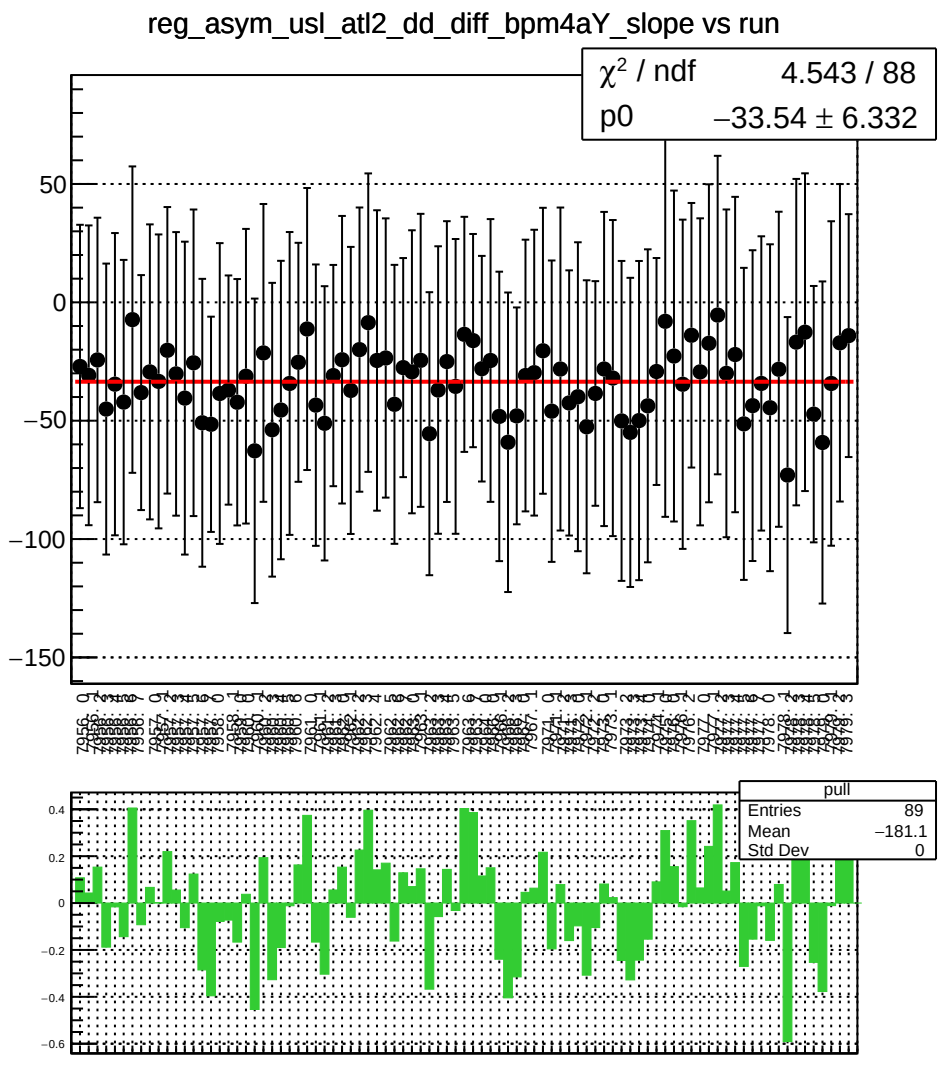

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.48 / 88
p0 69.12 ± 6.391
pull
Entries 89
Mean 206.6
Std Dev 0
pull1D
Entries 89
Mean −0.006939
Std Dev 0.4033

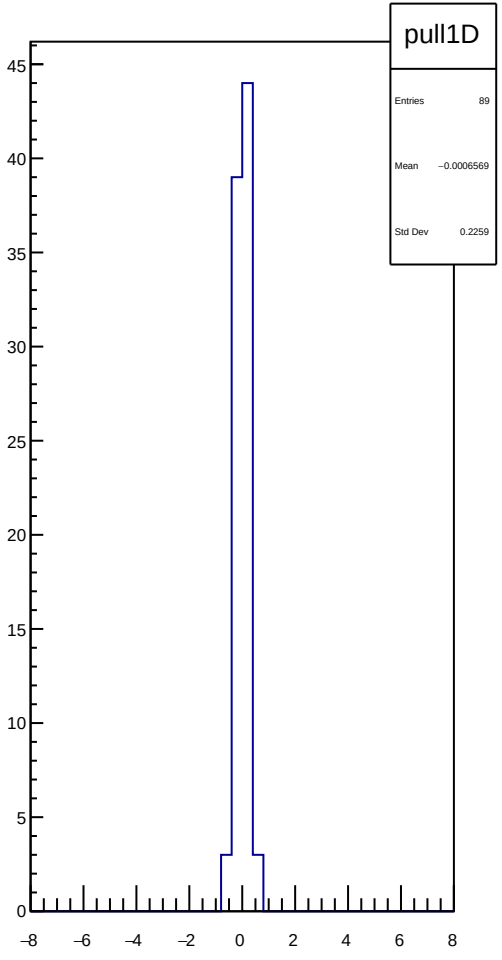

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.567 / 88
p0 22.67 ± 8.587
150
100
50
0
−50
−100
pull
Entries 89
Mean 2192
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

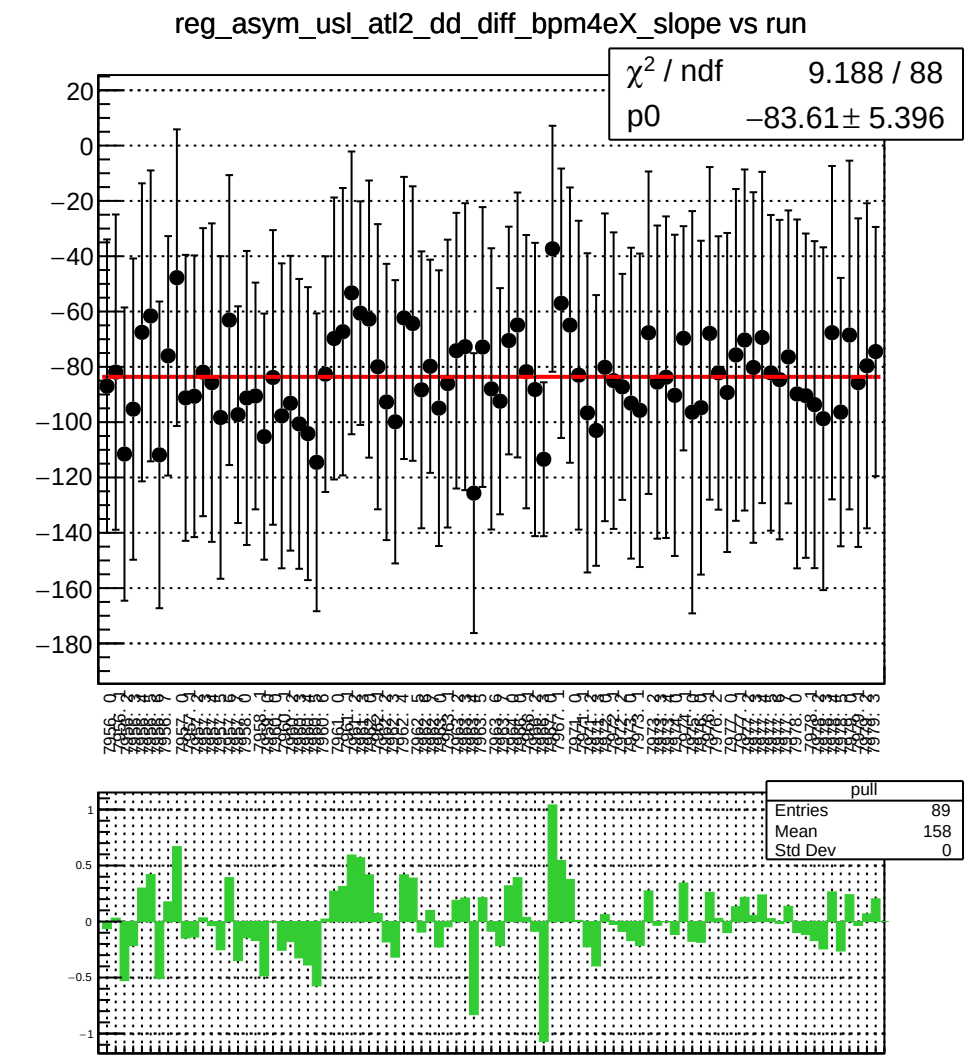

pull1D
Entries 89
Mean −6.513e−05
Std Dev 0.2716
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

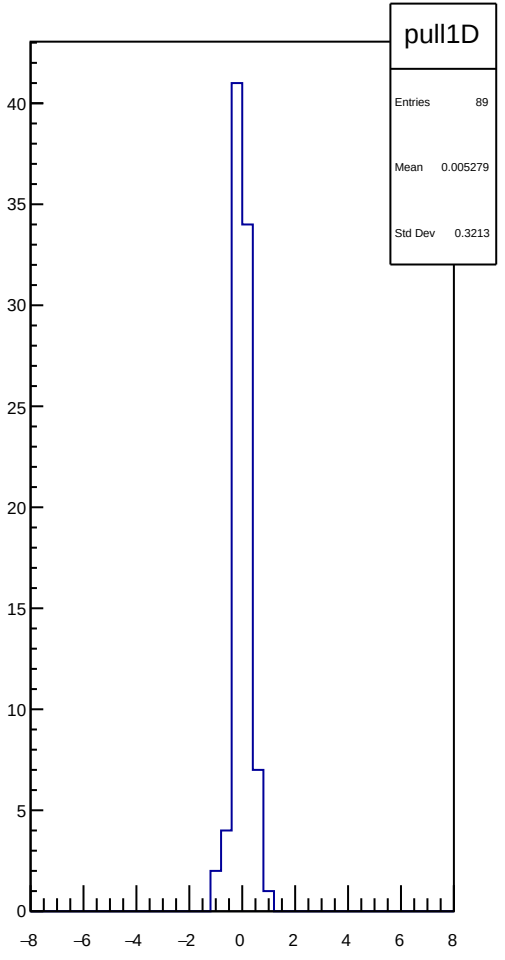

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 463.7 / 88
p0 −140.6 ± 0.247
pull
Entries 89
Mean −627
Std Dev 0
pull1D
Entries 89
Mean −0.155
Std Dev 2.117

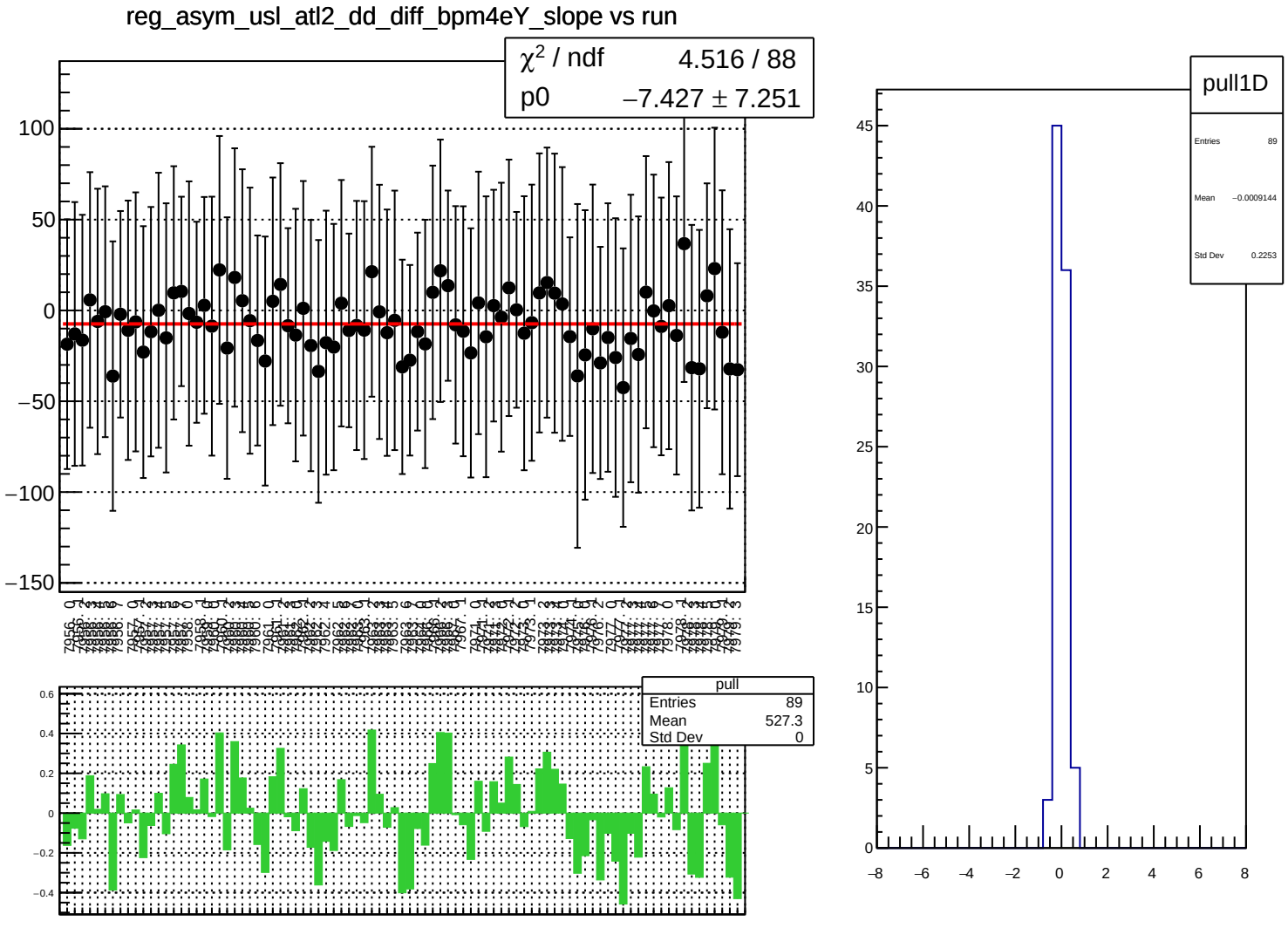

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 9.214 / 88
p0 96.32 ± 6.095
200
150
100
50
0
pull
Entries 89
Mean 200.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.007044
Std Dev 0.3217
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

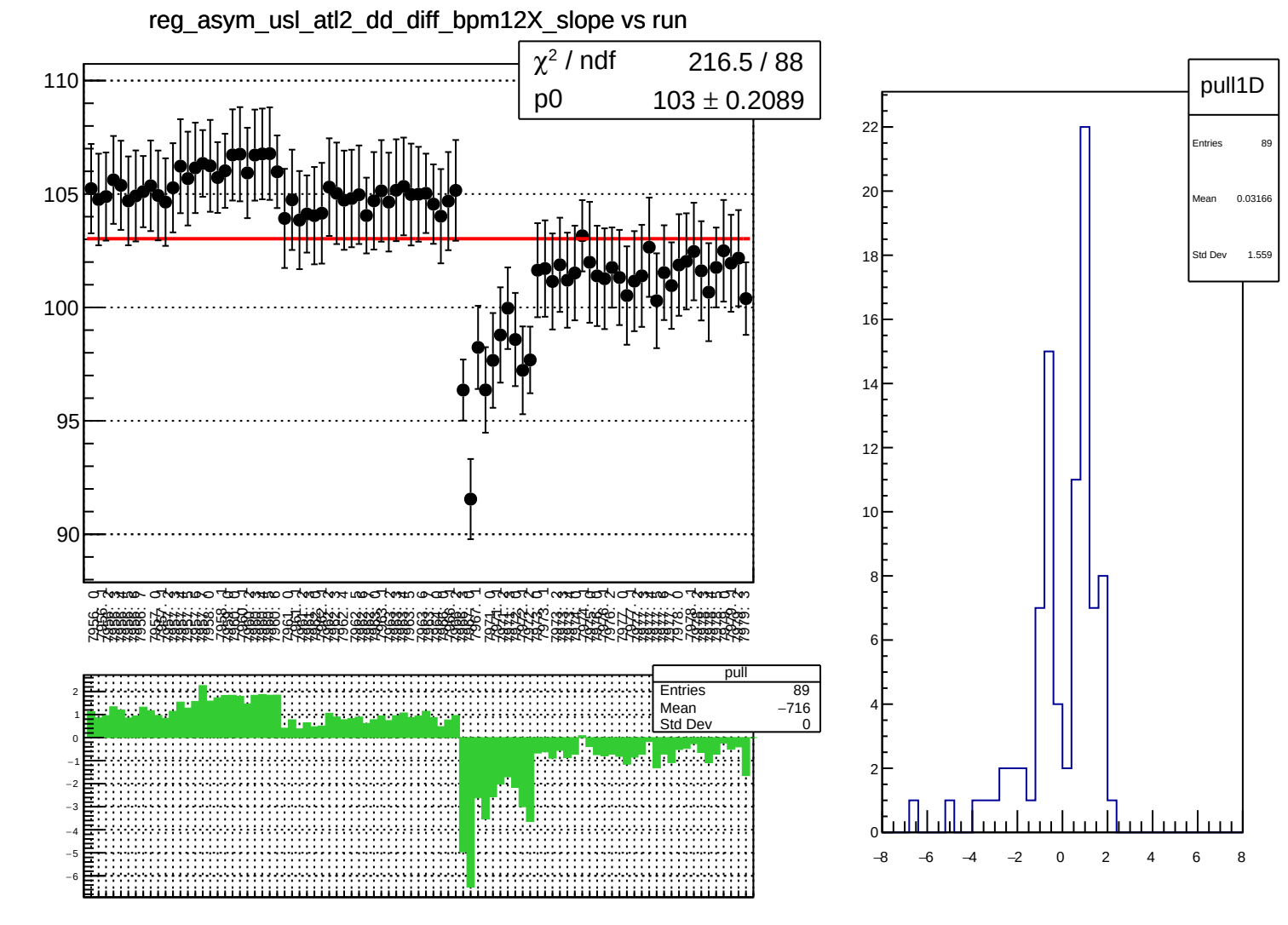

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.543 / 88
p0 −33.54 ± 6.332
50
0
−50
−100
−150
pull
Entries 89
Mean −181.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

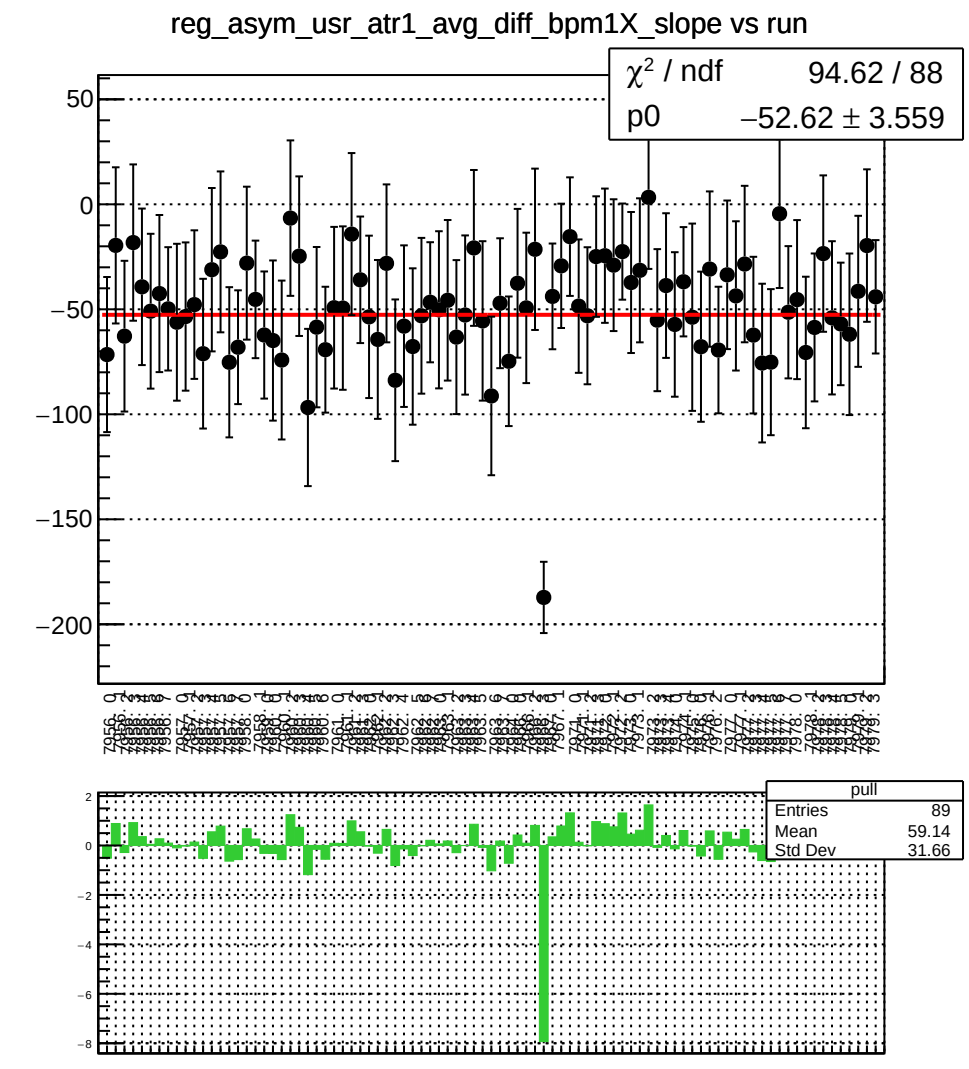

pull1D
Entries 89
Mean −0.0006569
Std Dev 0.2259
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

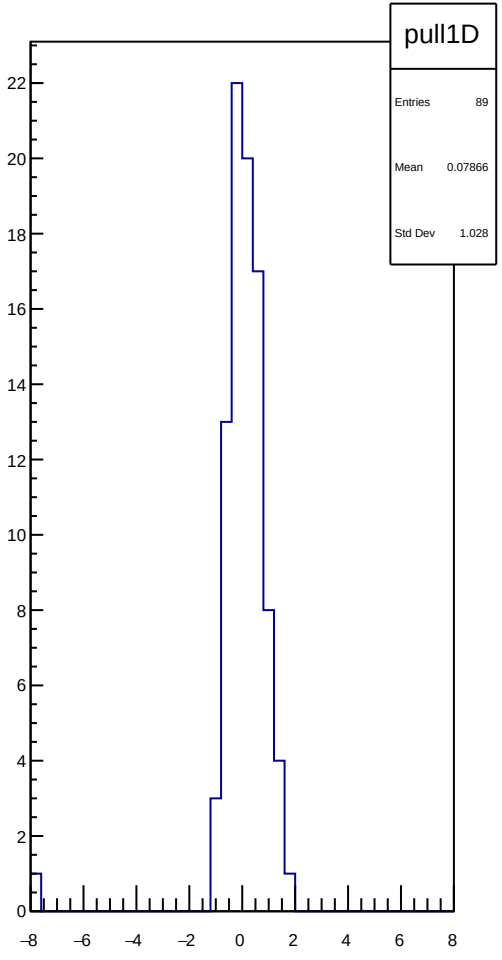

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.188 / 88
p0 −83.61 ± 5.396
pull
Entries 89
Mean 158
Std Dev 0

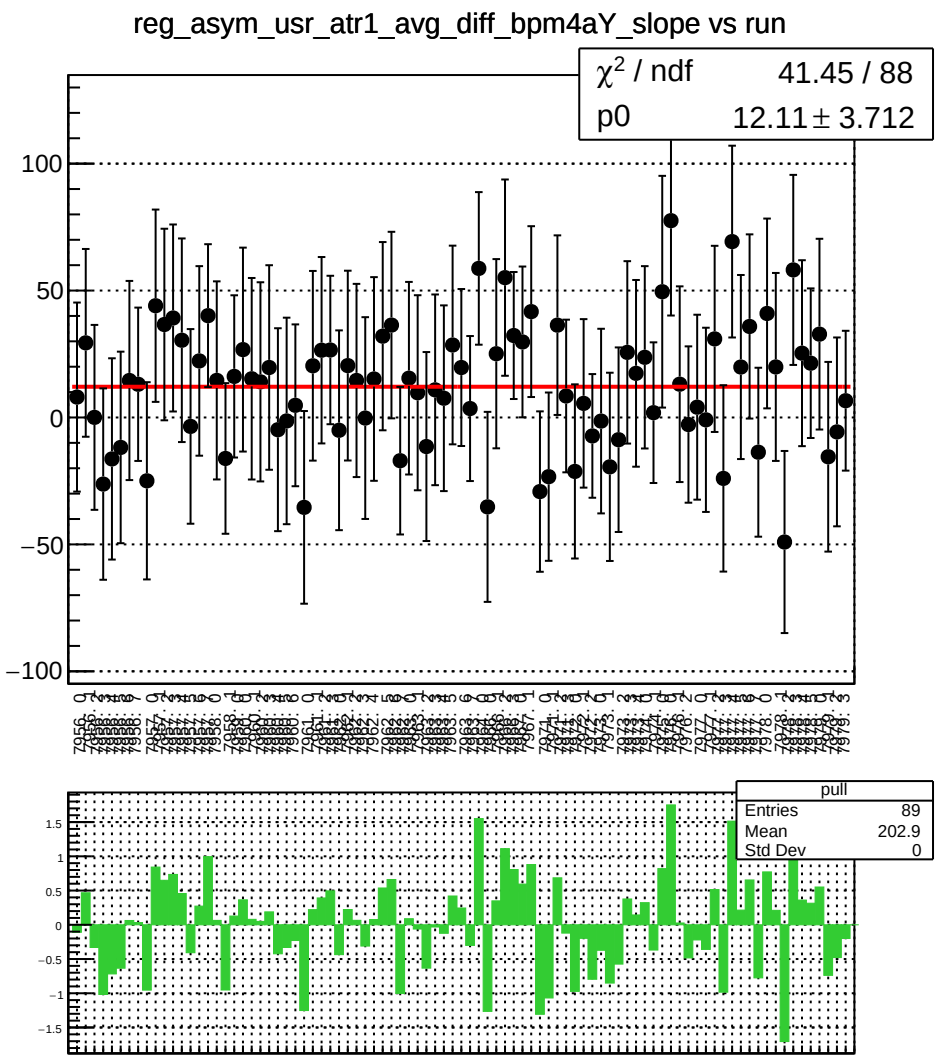

pull1D
Entries 89
Mean 0.005279
Std Dev 0.3213

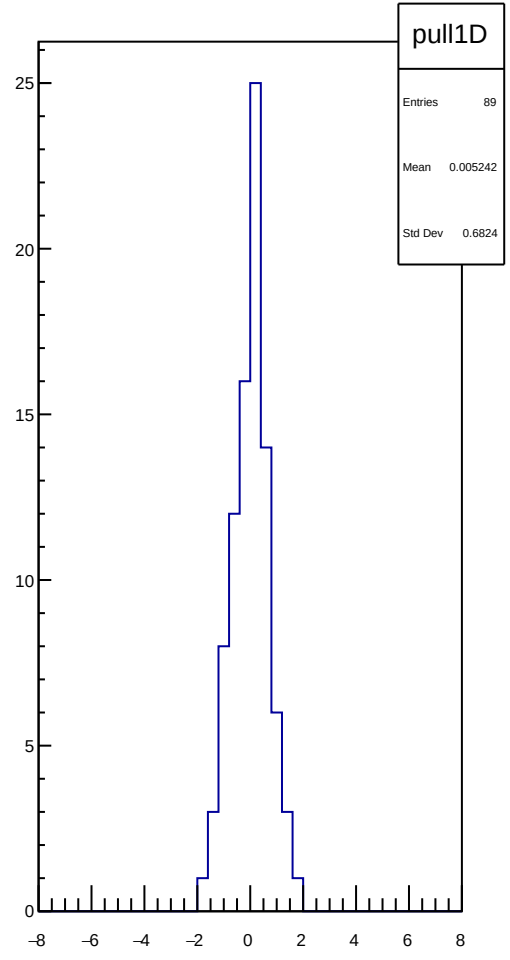

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.516 / 88
p0 −7.427 ± 7.251
pull
Entries 89
Mean 527.3
Std Dev 0
pull1D
Entries 89
Mean −0.0009144
Std Dev 0.2253

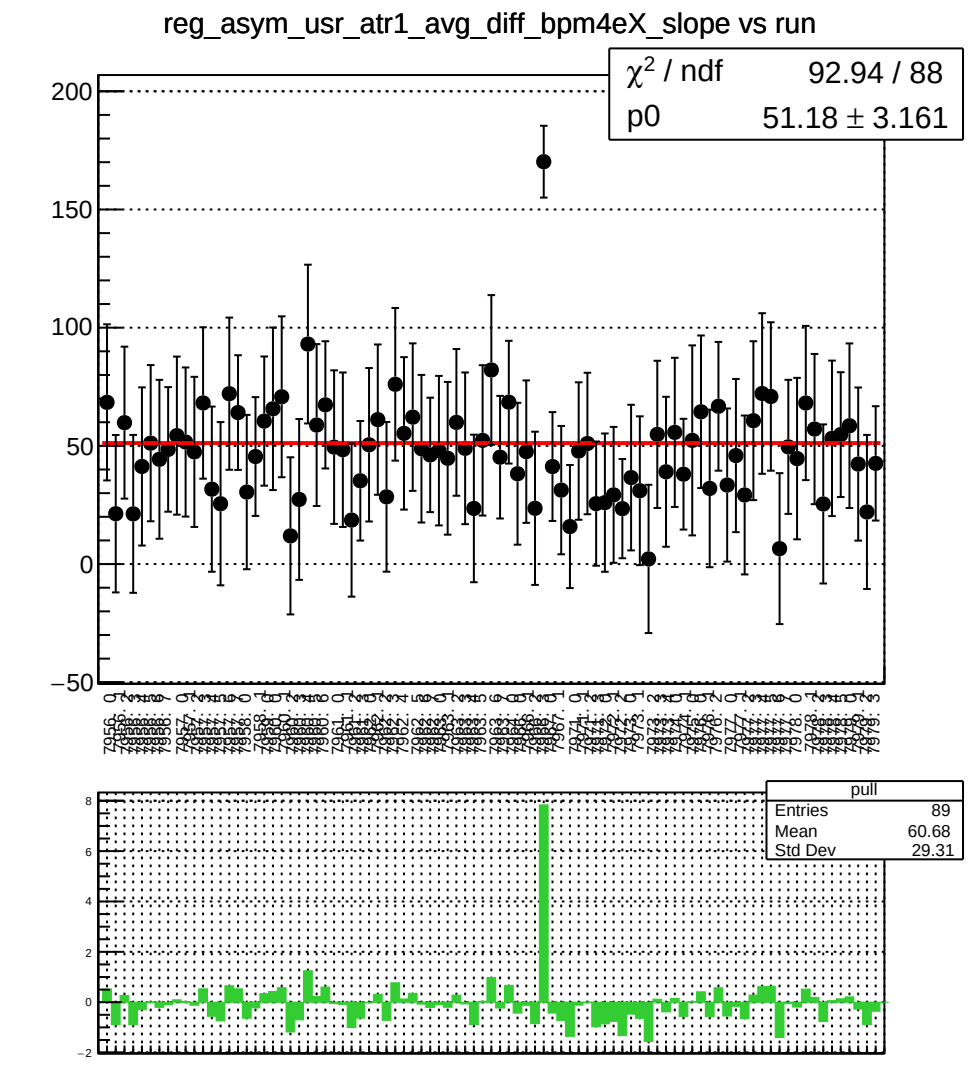

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 216.5 / 88
p0 103 ± 0.2089
110
105
100
95
90
pull
Entries 89
Mean −716
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 89
Mean 0.03166
Std Dev 1.559
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

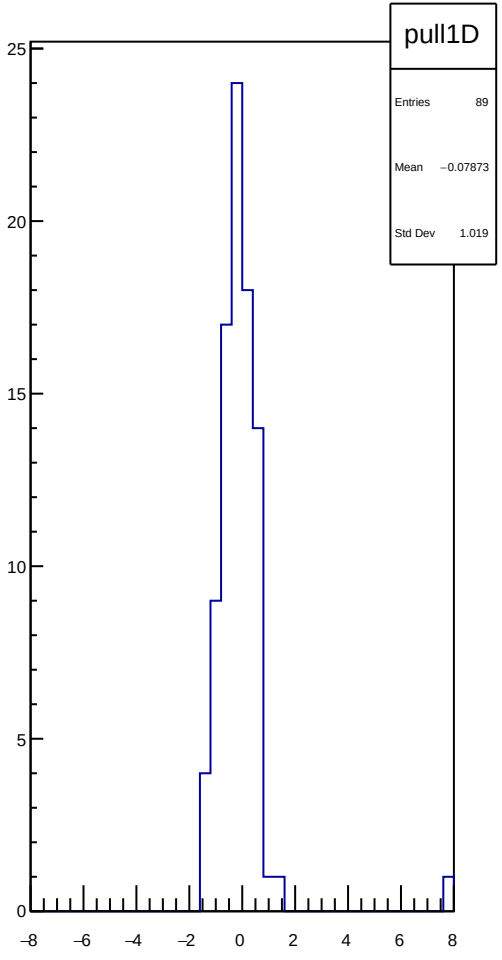

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 94.62 / 88
p0 −52.62 ± 3.559
pull
Entries 89
Mean 59.14
Std Dev 31.66

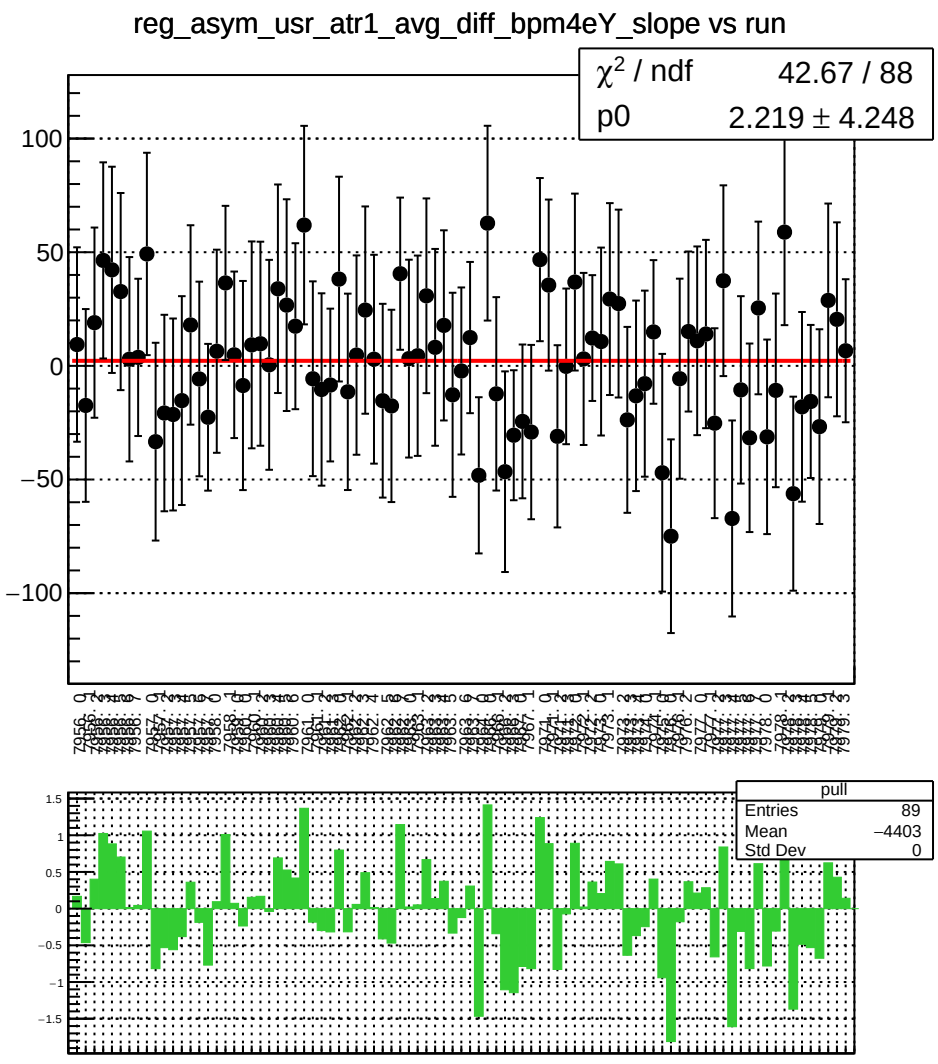

pull1D
Entries 89
Mean 0.07866
Std Dev 1.028

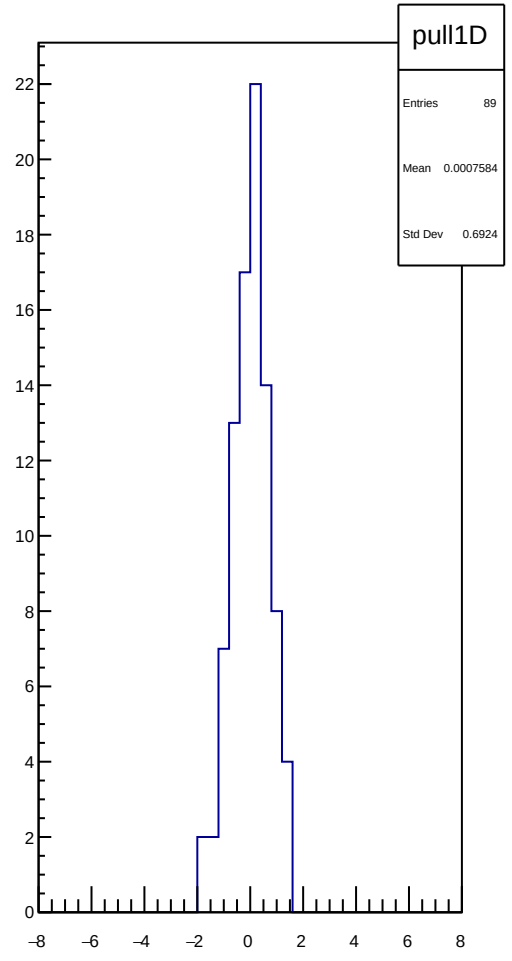

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.45 / 88
p0 12.11 ± 3.712
100
50
0
−50
−100
pull
Entries 89
Mean 202.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

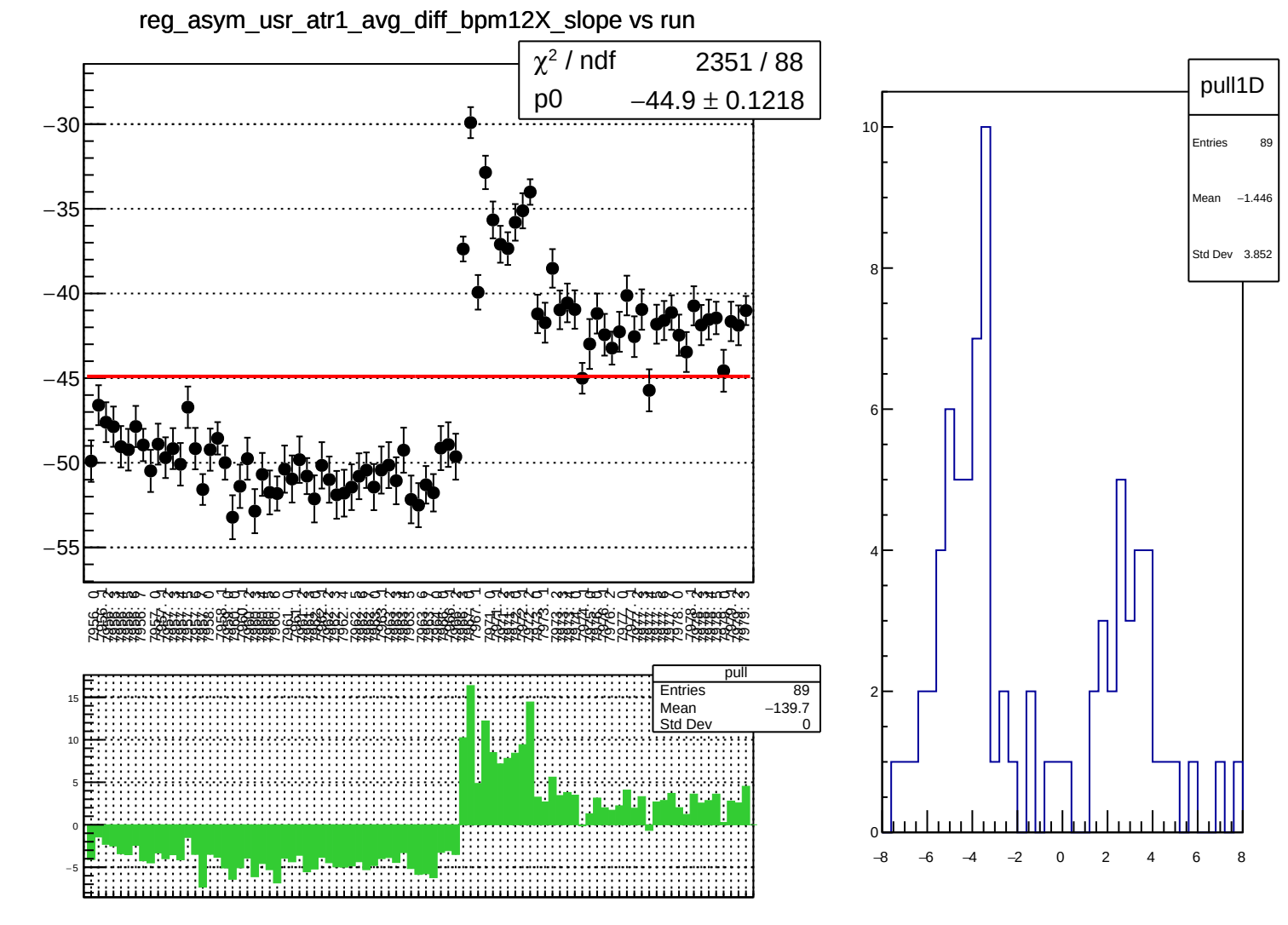

pull1D
Entries 89
Mean 0.005242
Std Dev 0.6824
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

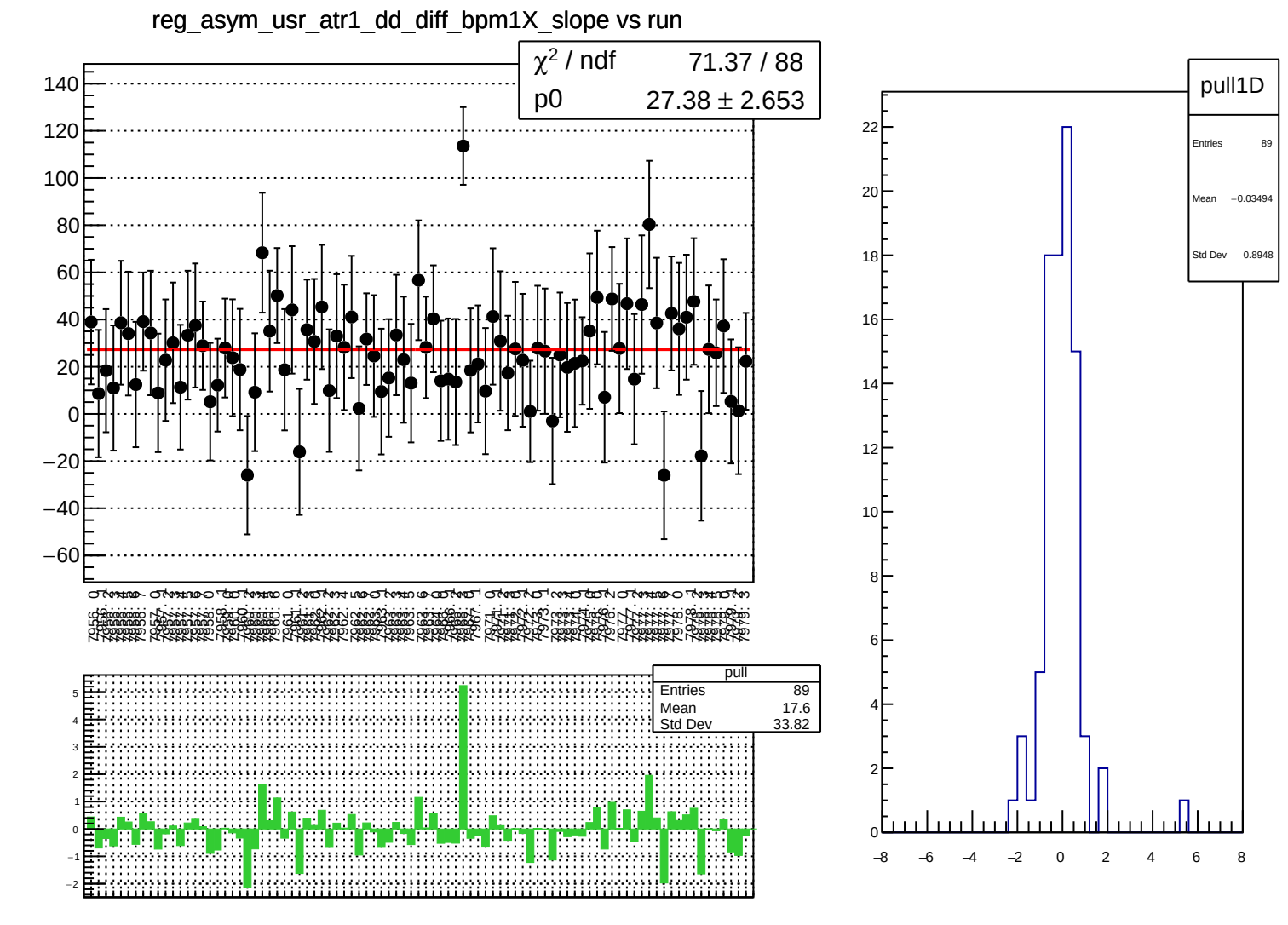

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 92.94 / 88
p0 51.18 ± 3.161
pull
Entries 89
Mean 60.68
Std Dev 29.31

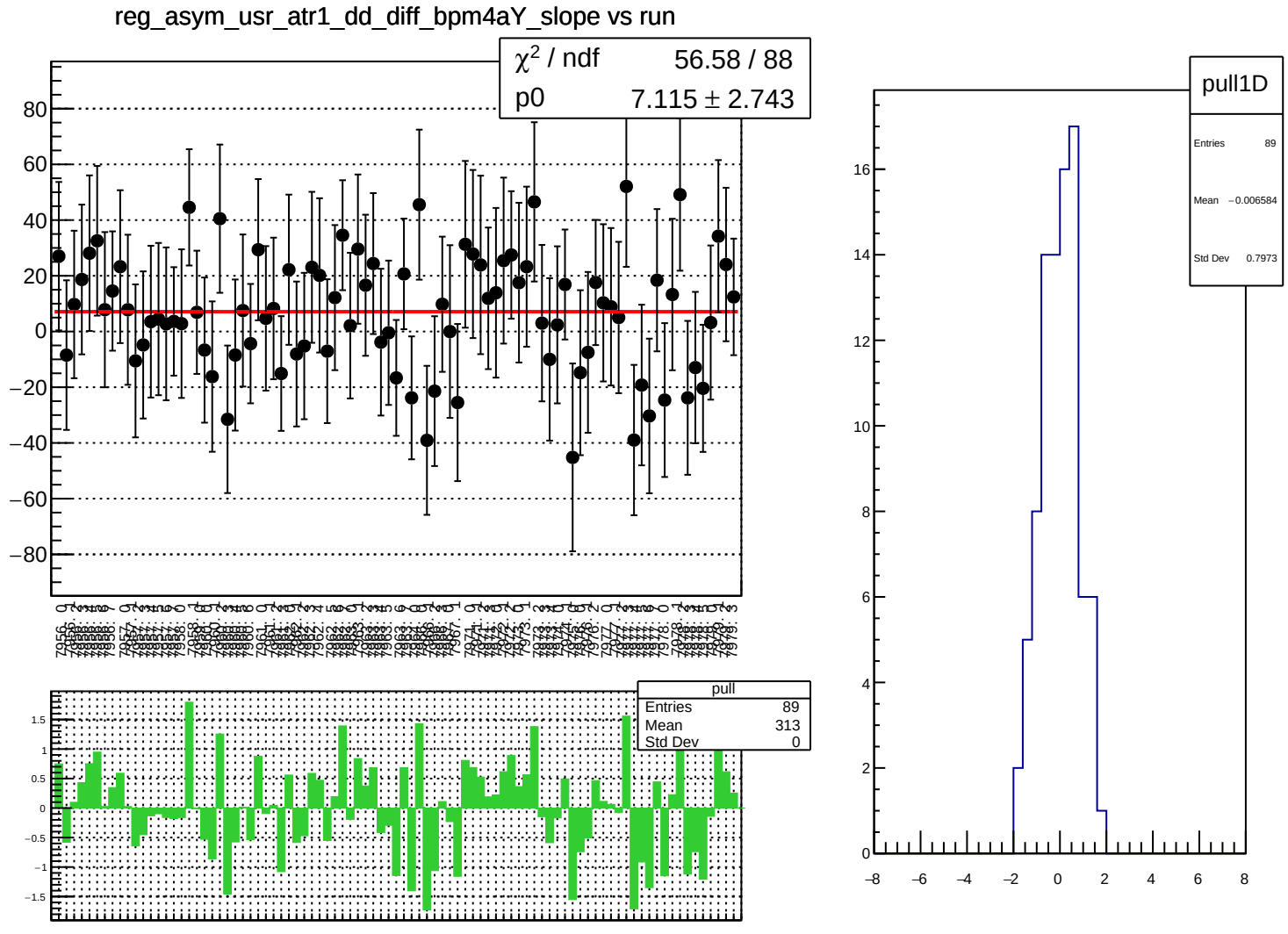

pull1D
Entries 89
Mean −0.07873
Std Dev 1.019

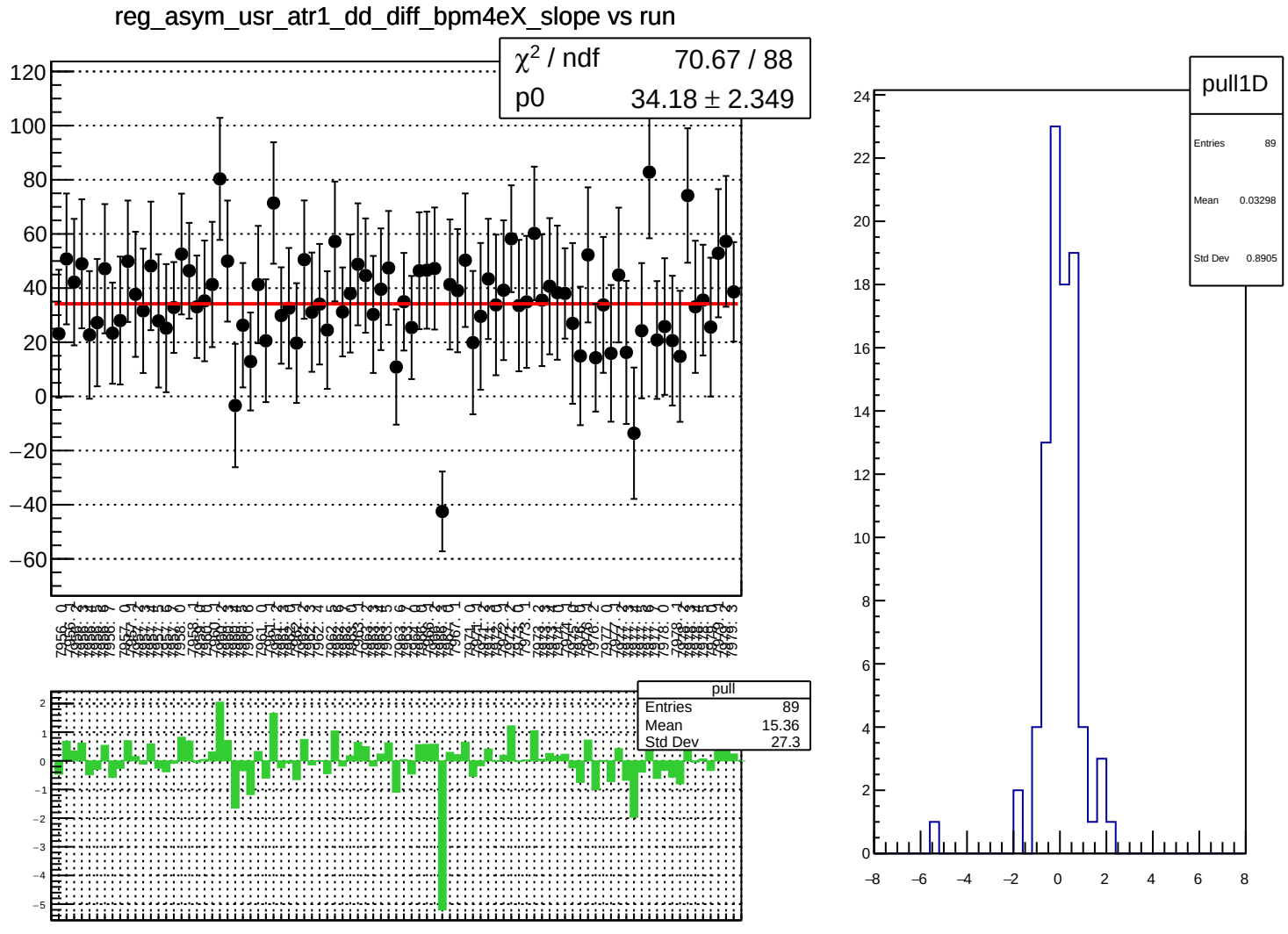

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.67 / 88
p0 2.219 ± 4.248
100
50
0
−50
−100
pull
Entries 89
Mean −4403
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

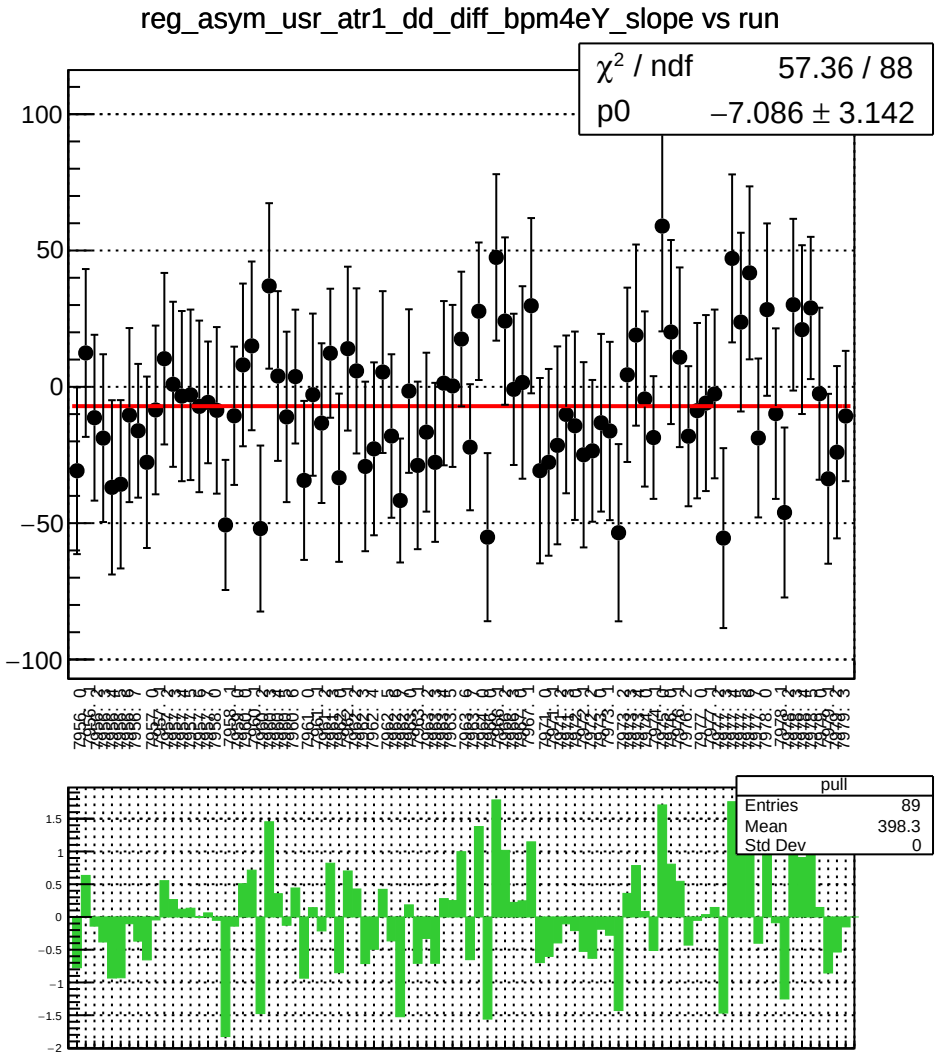

pull1D
Entries 89
Mean 0.0007584
Std Dev 0.6924
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

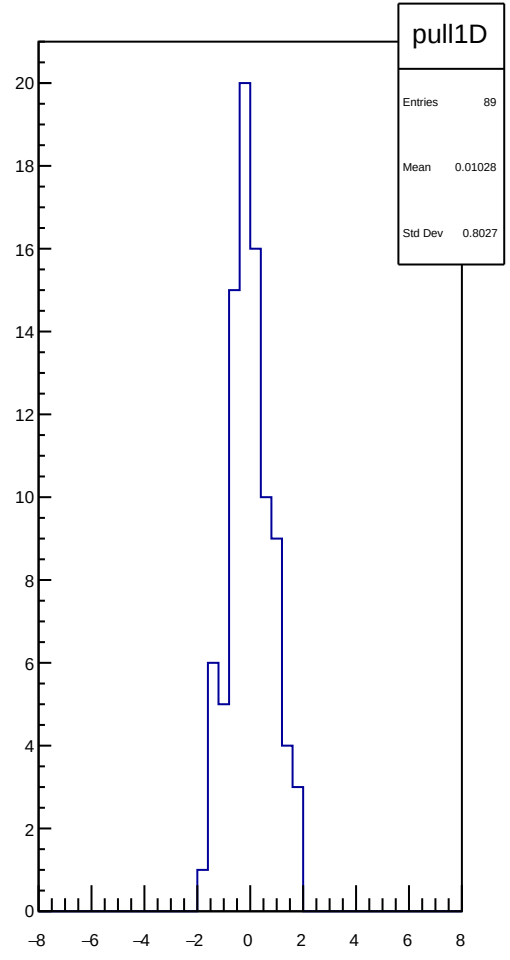

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 2351 / 88
p0 −44.9 ± 0.1218
pull
Entries 89
Mean −139.7
Std Dev 0
pull1D
Entries 89
Mean −1.446
Std Dev 3.852

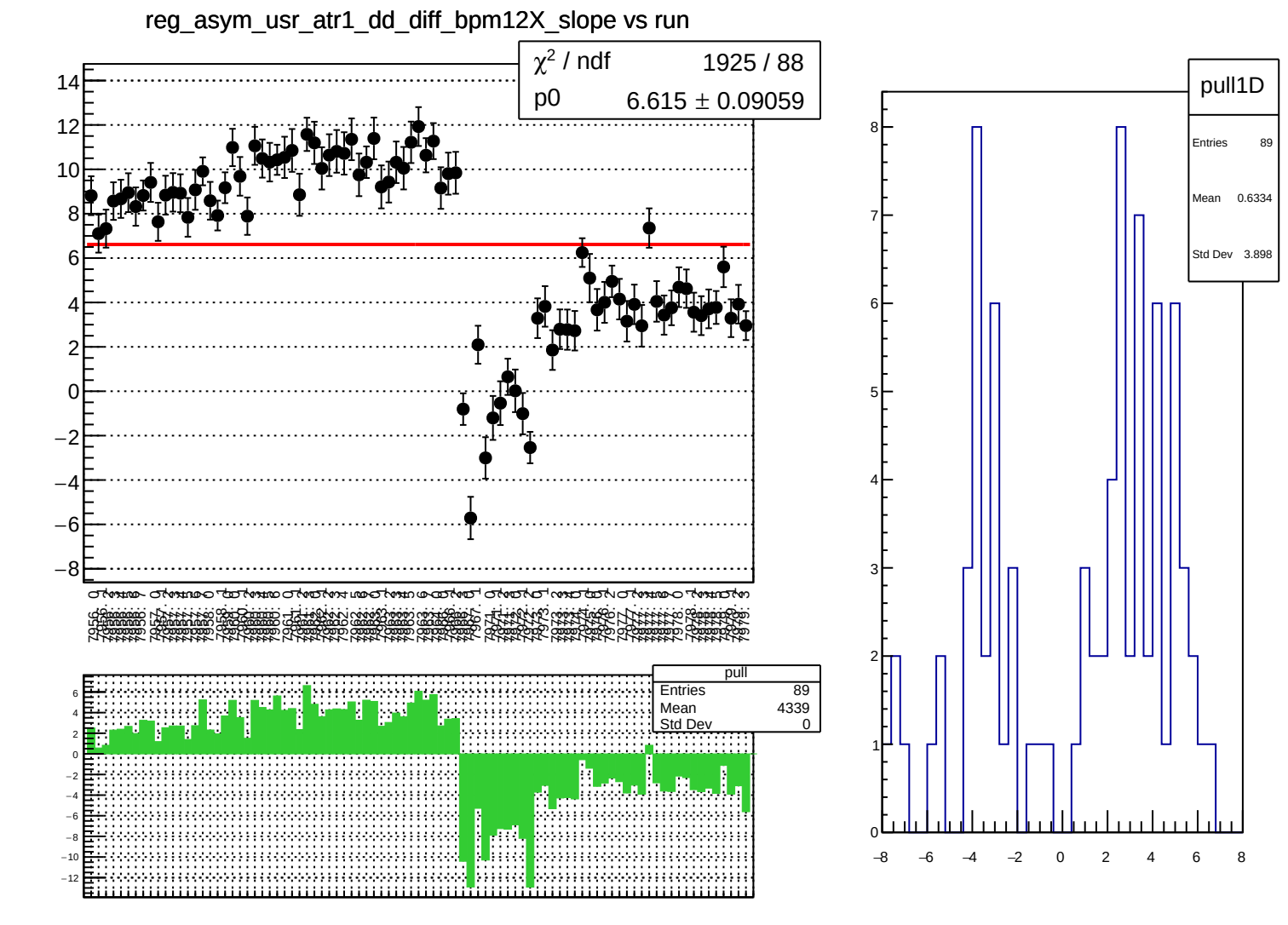

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 71.37 / 88
p0 27.38 ± 2.653
pull
Entries 89
Mean 17.6
Std Dev 33.82
pull1D
Entries 89
Mean −0.03494
Std Dev 0.8948

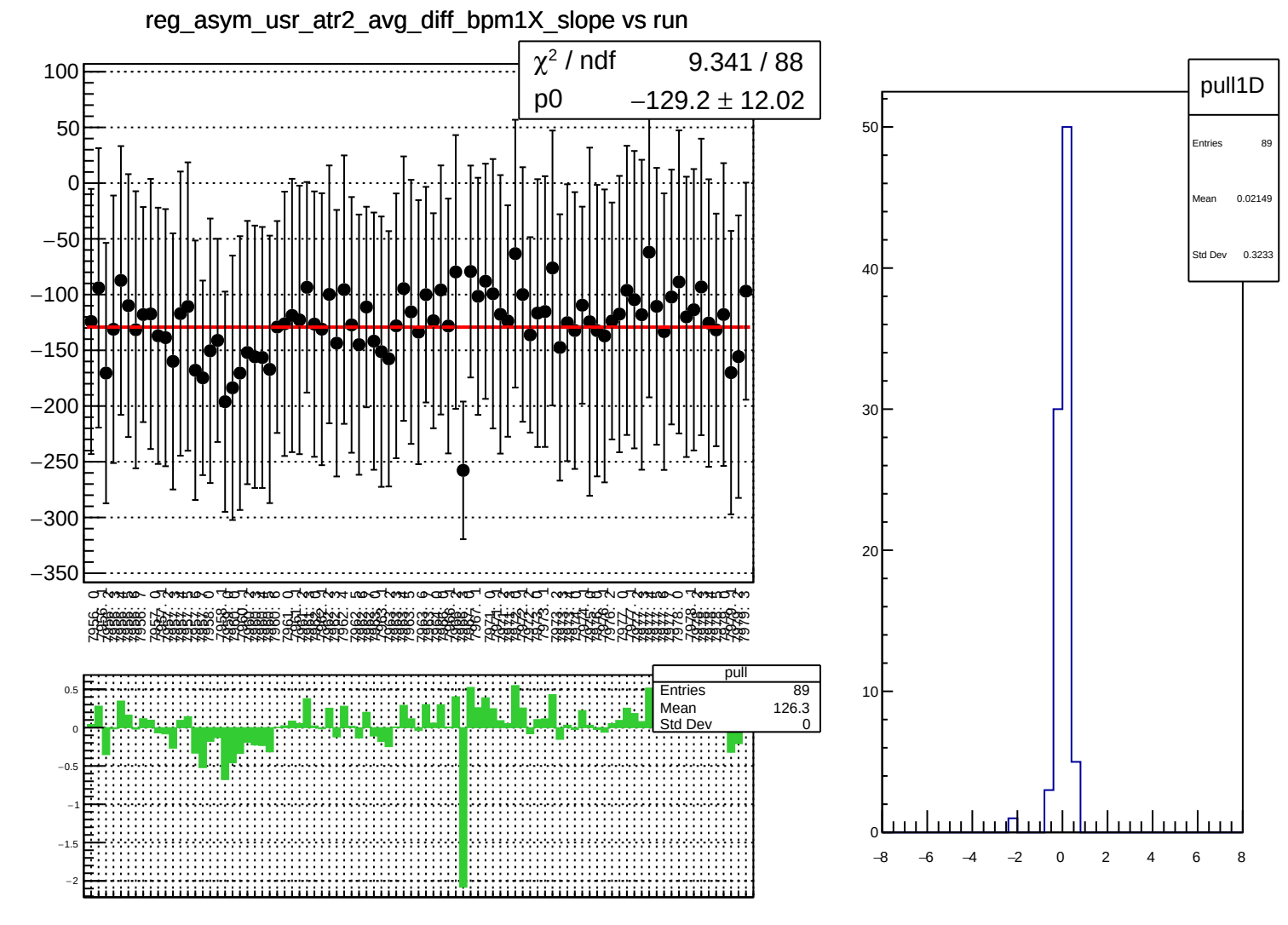

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.58 / 88
p0 7.115 ± 2.743
pull
Entries 89
Mean 313
Std Dev 0
pull1D
Entries 89
Mean −0.006584
Std Dev 0.7973

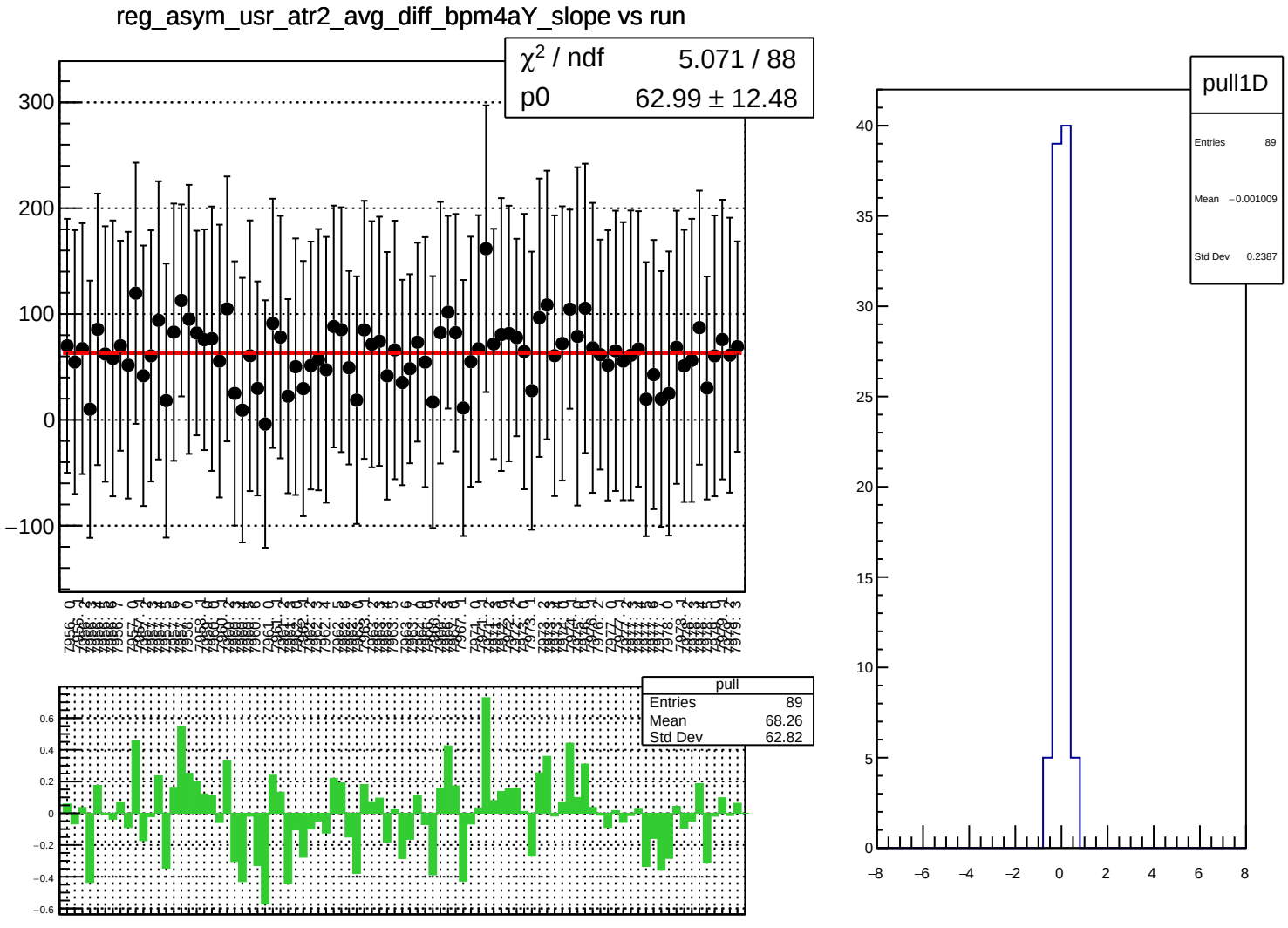

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.67 / 88
p0 34.18 ± 2.349
pull
Entries 89
Mean 15.36
Std Dev 27.3
pull1D
Entries 89
Mean 0.03298
Std Dev 0.8905

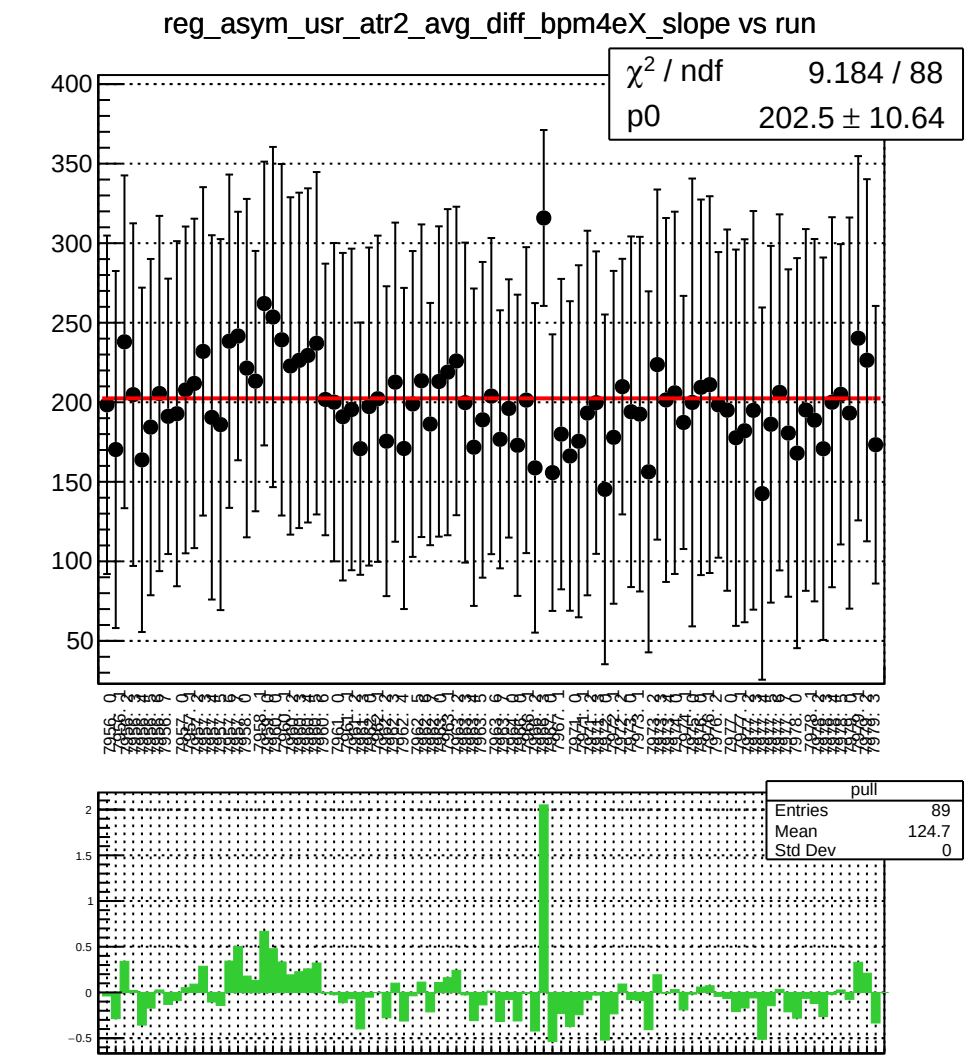

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.36 / 88
p0 −7.086 ± 3.142
pull
Entries 89
Mean 398.3
Std Dev 0

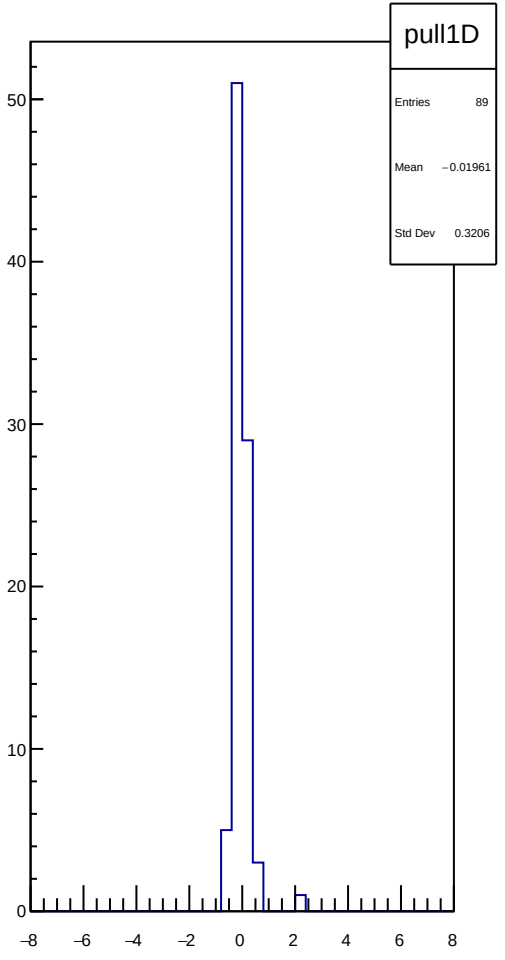

pull1D
Entries 89
Mean 0.01028
Std Dev 0.8027

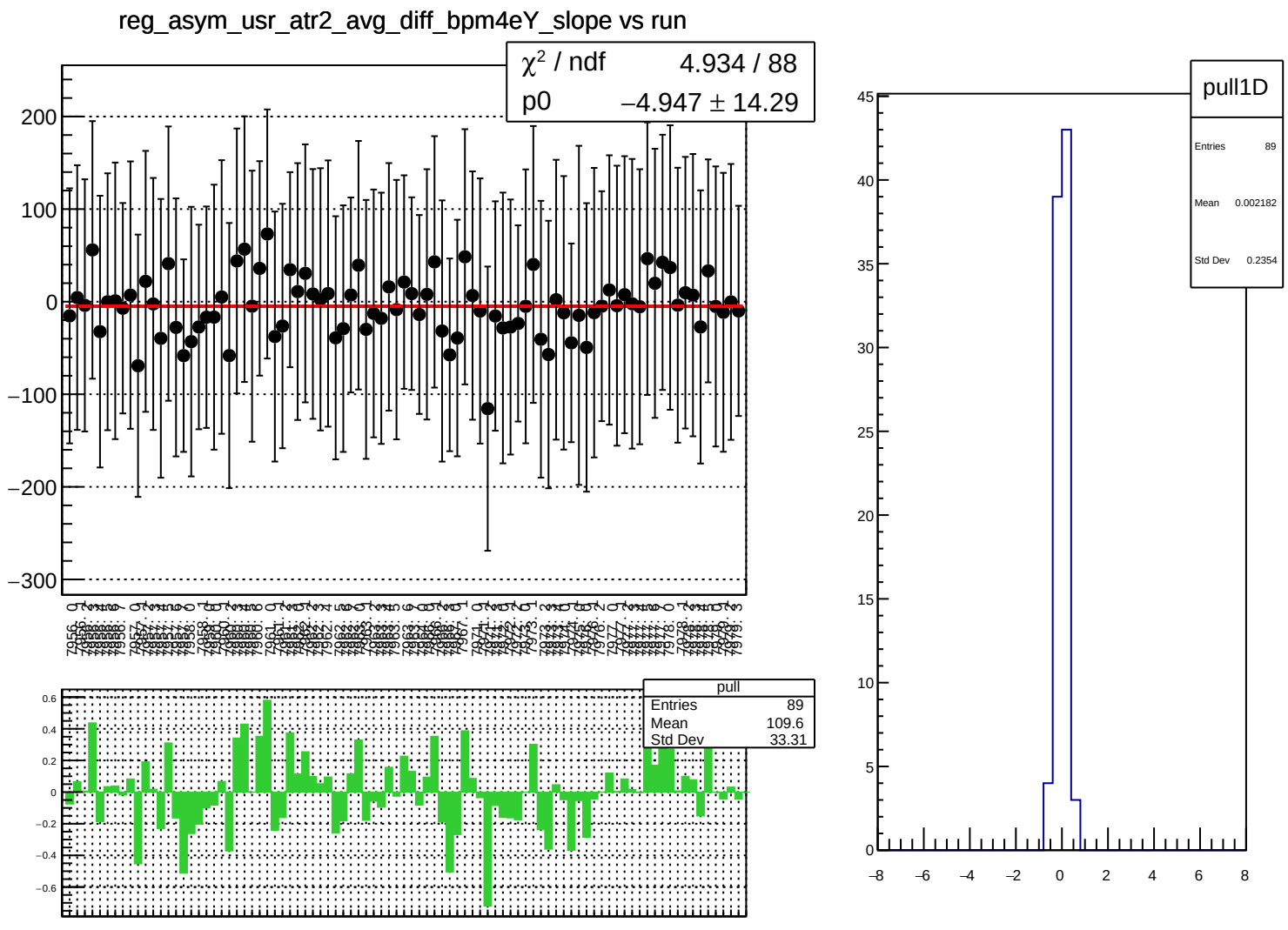

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 1925 / 88
p0 6.615 ± 0.09059
pull
Entries 89
Mean 4339
Std Dev 0
pull1D
Entries 89
Mean 0.6334
Std Dev 3.898

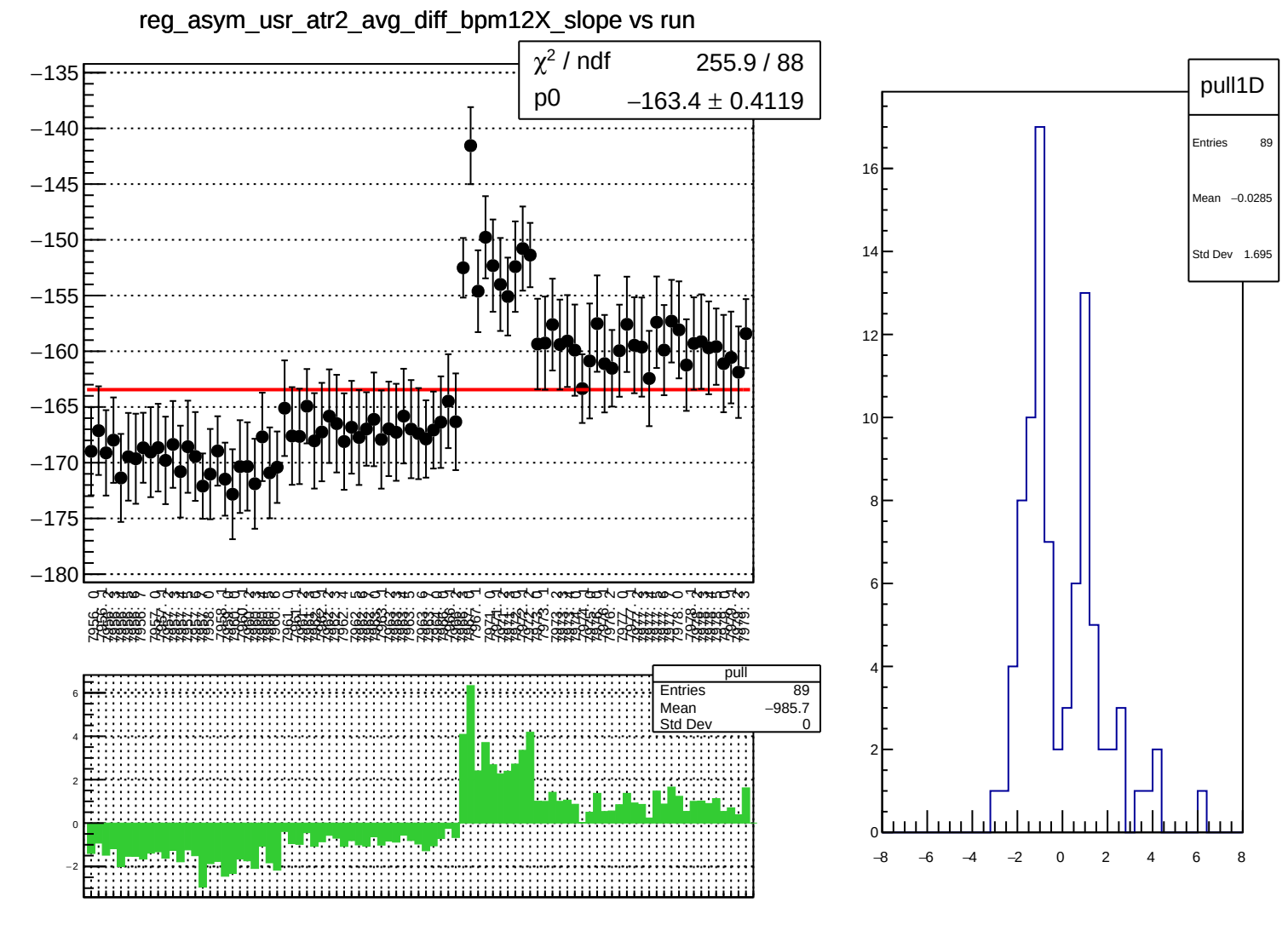

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.341 / 88
p0 −129.2 ± 12.02
pull
Entries 89
Mean 126.3
Std Dev 0
pull1D
Entries 89
Mean 0.02149
Std Dev 0.3233

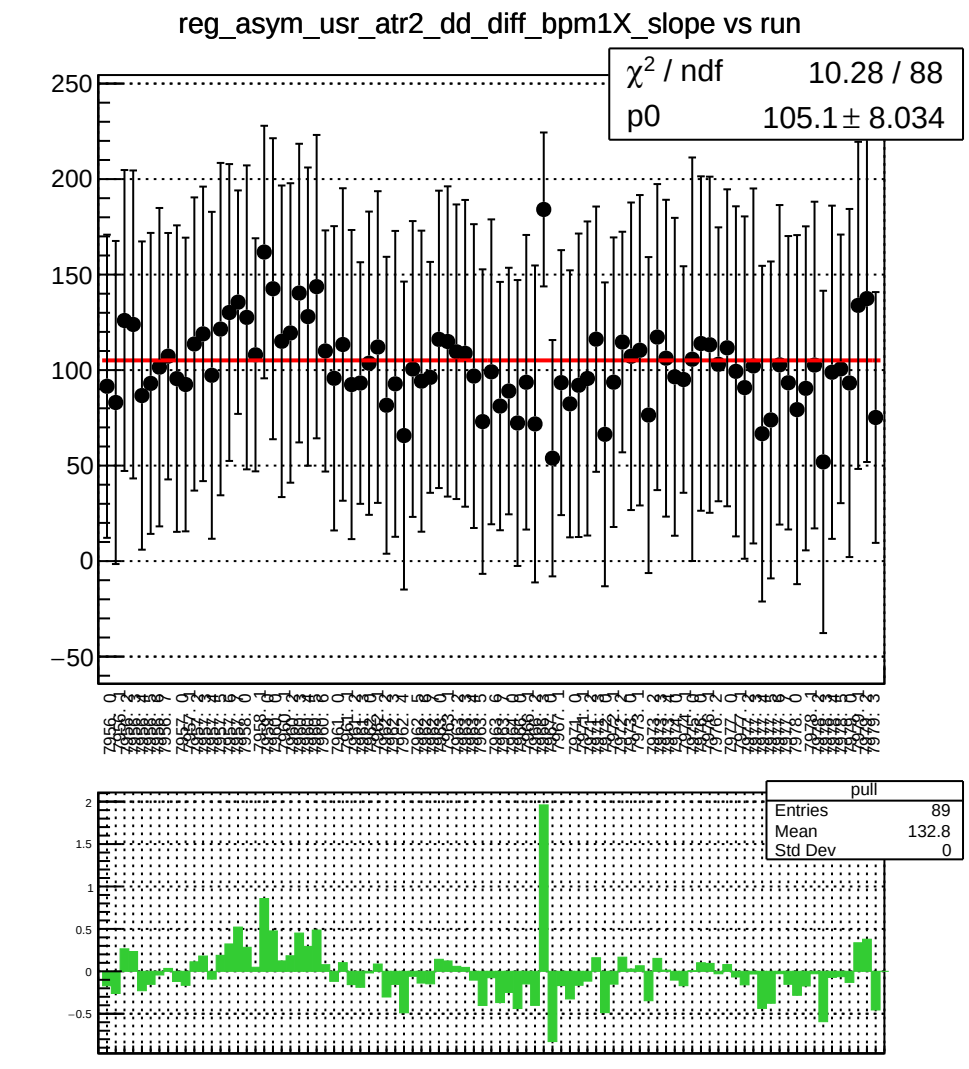

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.071 / 88
p0 62.99 ± 12.48
300
200
100
0
−100
pull
Entries 89
Mean 68.26
Std Dev 62.82
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −0.001009
Std Dev 0.2387
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

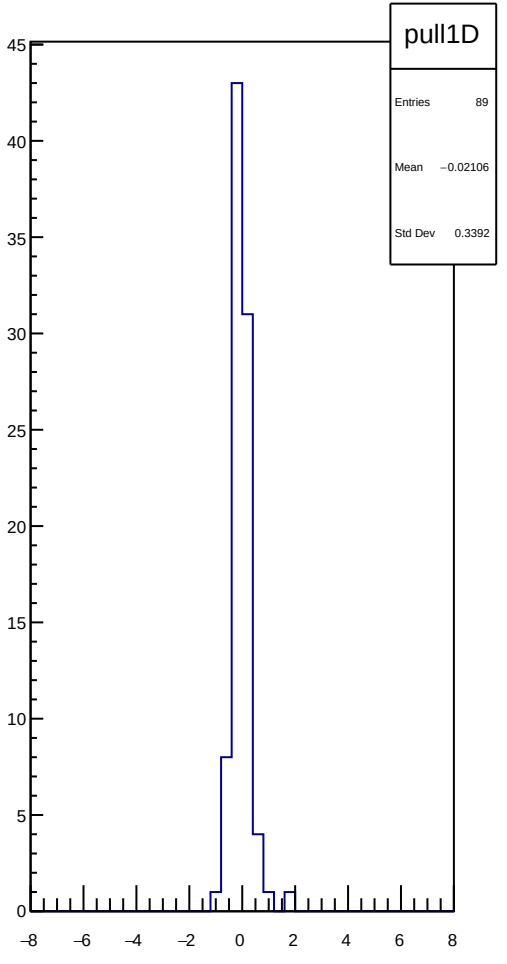

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.184 / 88
p0 202.5 ± 10.64
pull
Entries 89
Mean 124.7
Std Dev 0

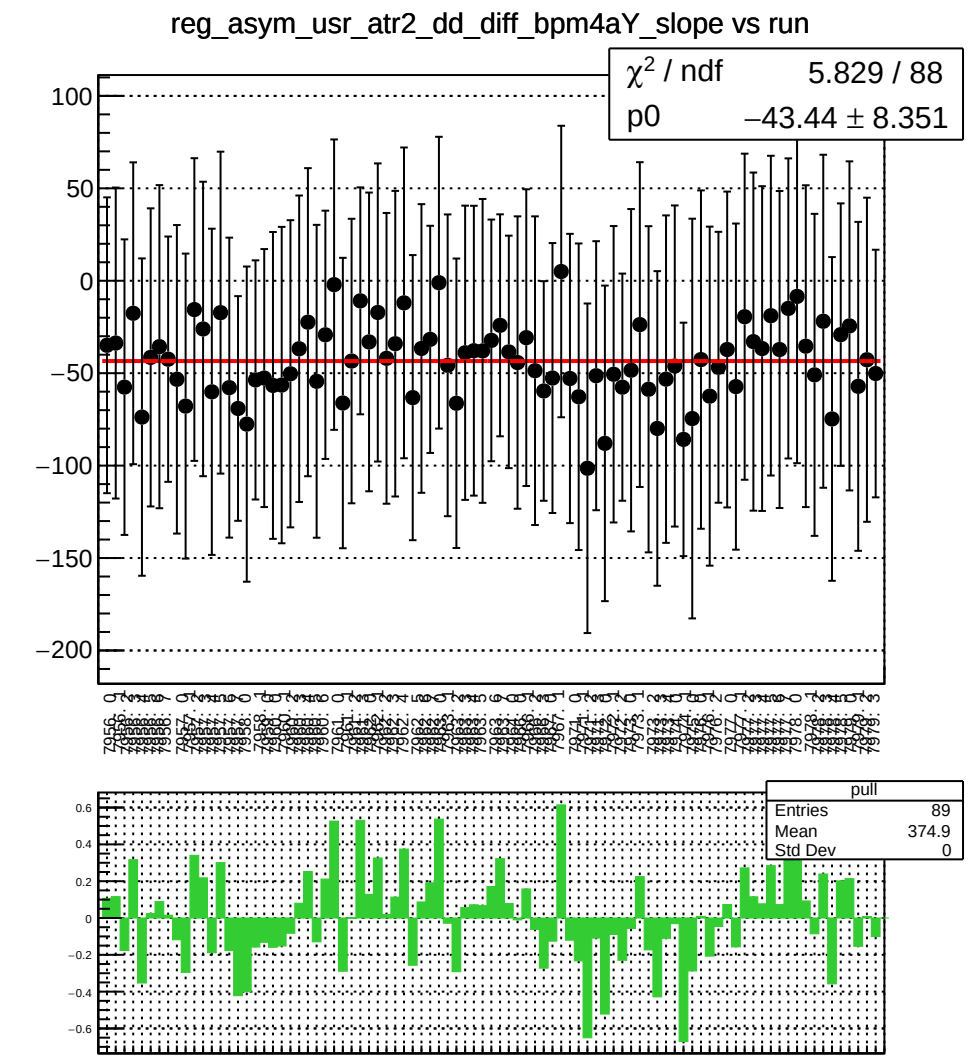

pull1D
Entries 89
Mean −0.01961
Std Dev 0.3206

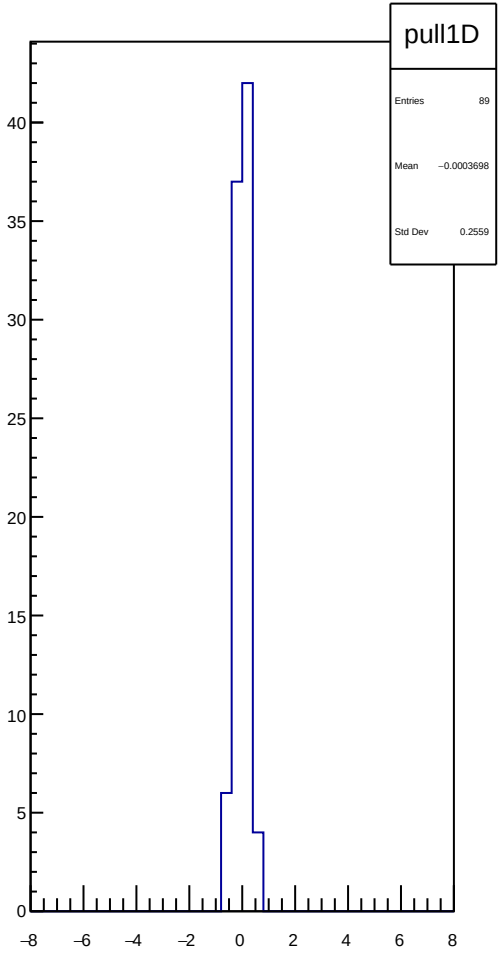

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.934 / 88
p0 −4.947 ± 14.29
pull
Entries 89
Mean 109.6
Std Dev 33.31
pull1D
Entries 89
Mean 0.002182
Std Dev 0.2354

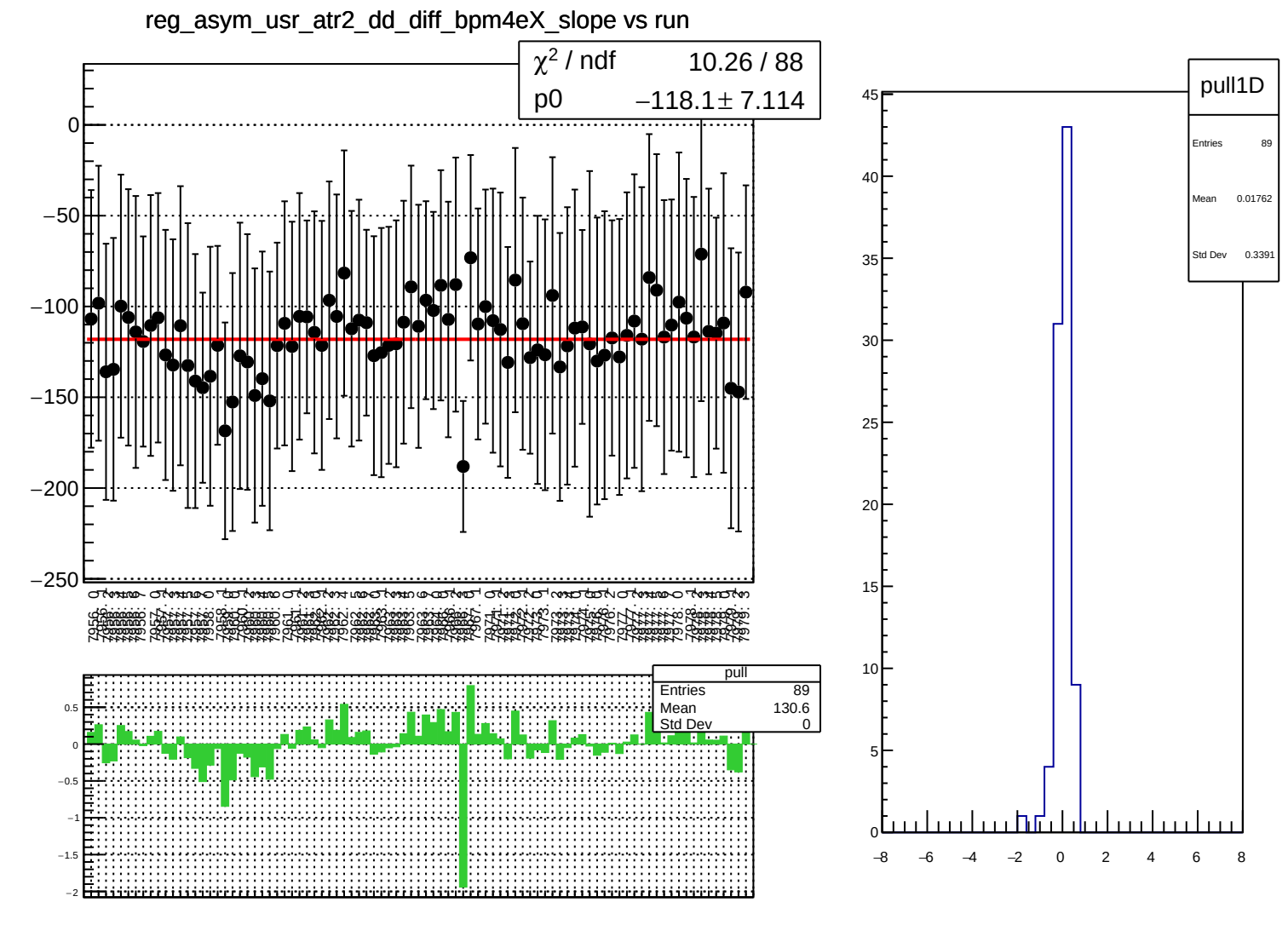

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 255.9 / 88
p0 −163.4 ± 0.4119
pull
Entries 89
Mean −985.7
Std Dev 0
pull1D
Entries 89
Mean −0.0285
Std Dev 1.695

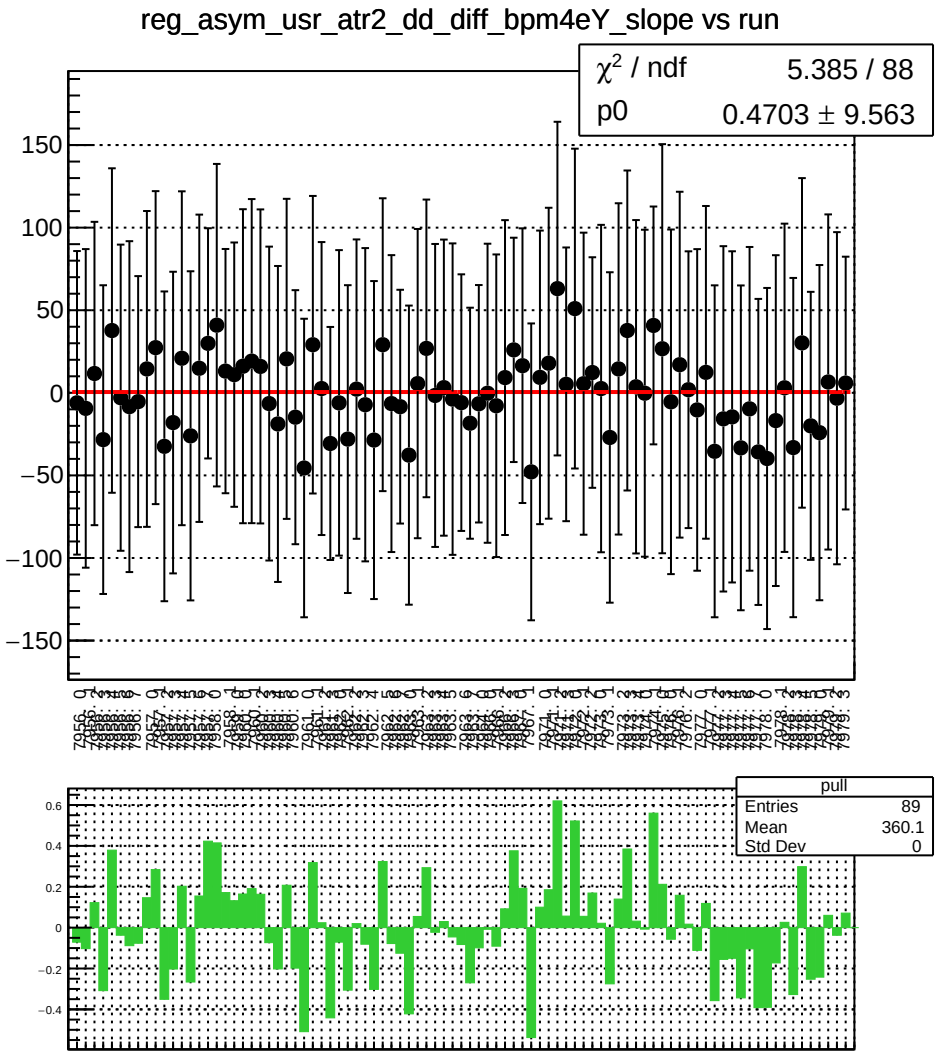

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 10.28 / 88
p0 105.1 ± 8.034
250
200
150
100
50
0
−50
pull
Entries 89
Mean 132.8
Std Dev 0
2
1.5
1
0.5
0
−0.5

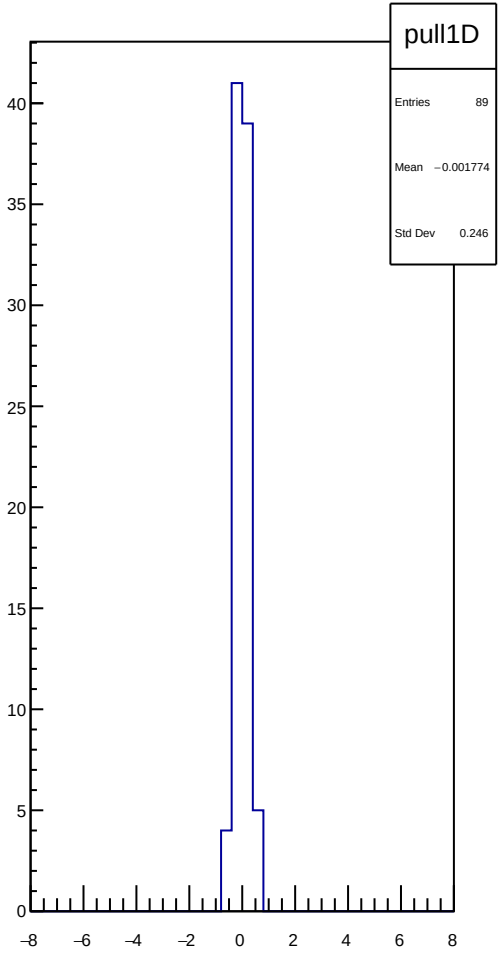

pull1D
Entries 89
Mean −0.02106
Std Dev 0.3392
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

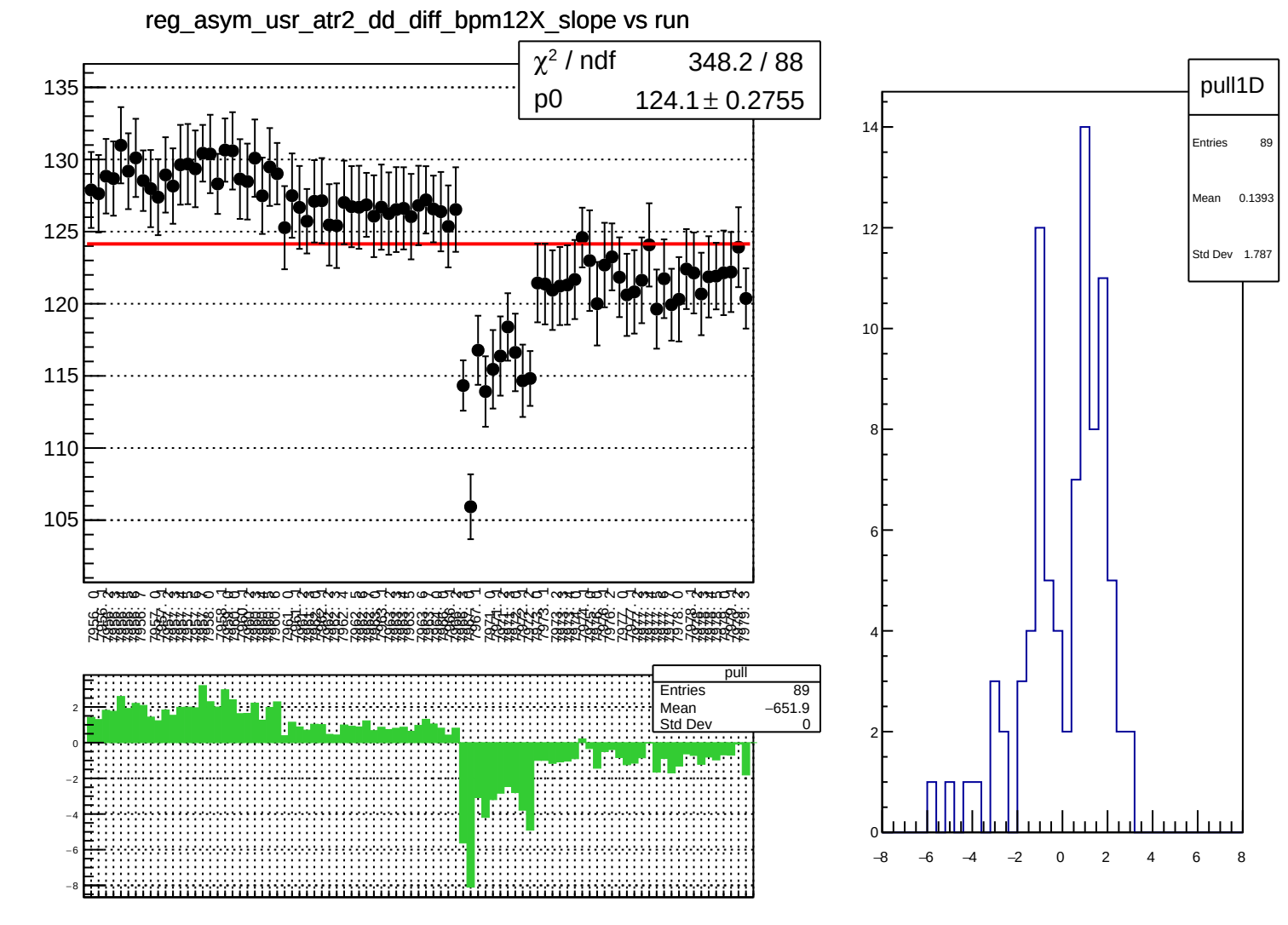

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.829 / 88
p0 −43.44 ± 8.351
pull
Entries 89
Mean 374.9
Std Dev 0

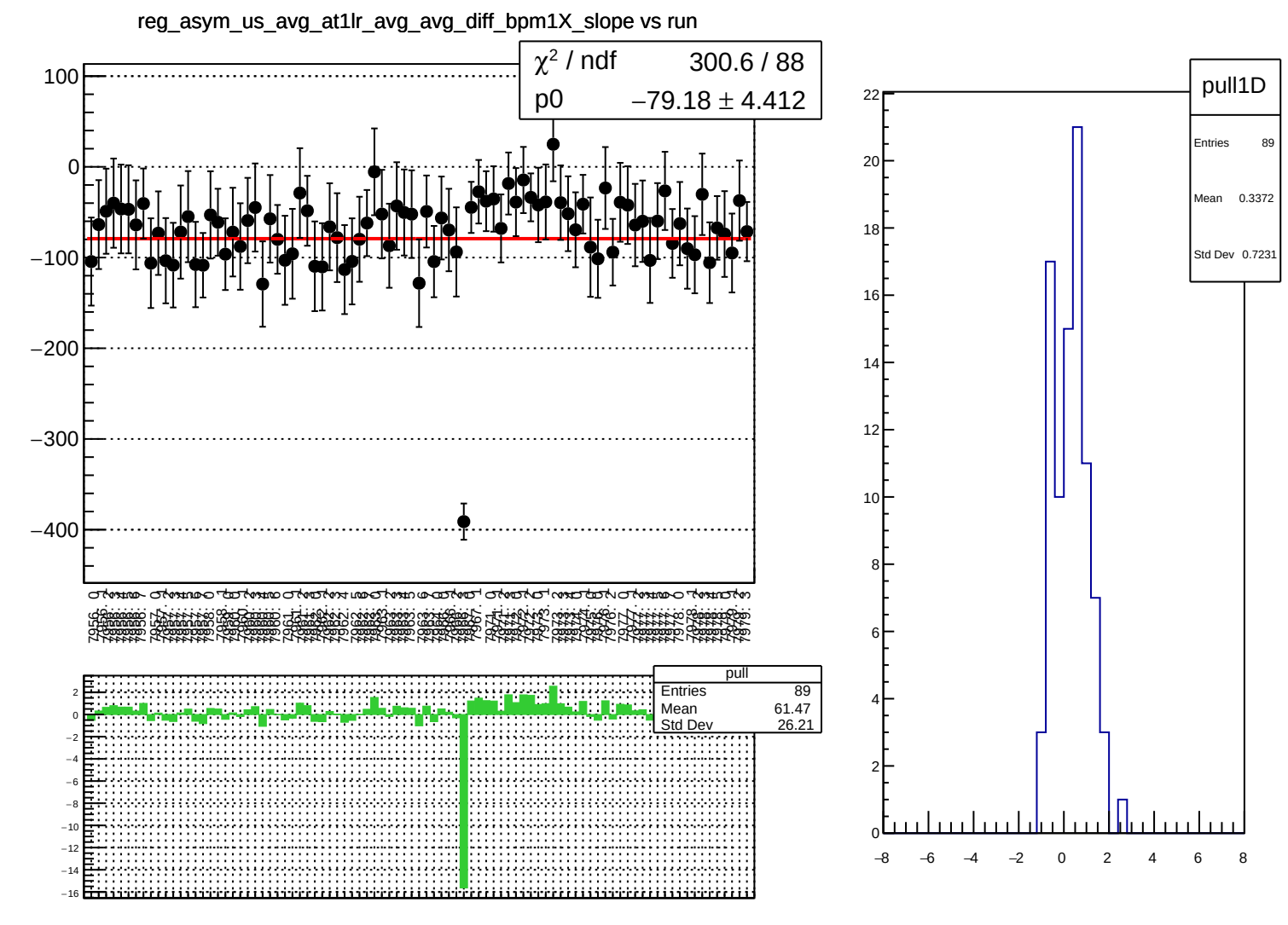

pull1D
Entries 89
Mean −0.0003698
Std Dev 0.2559

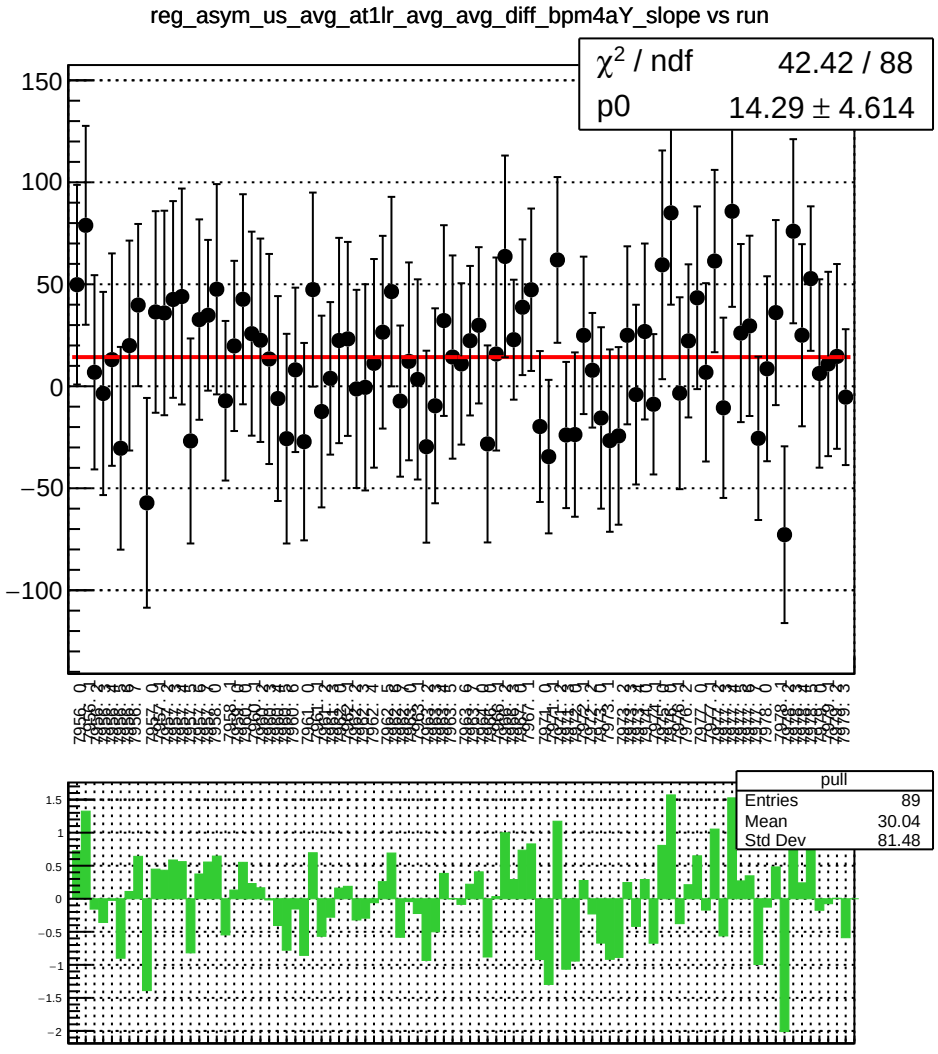

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.26 / 88
p0 −118.1± 7.114
pull
Entries 89
Mean 130.6
Std Dev 0
pull1D
Entries 89
Mean 0.01762
Std Dev 0.3391

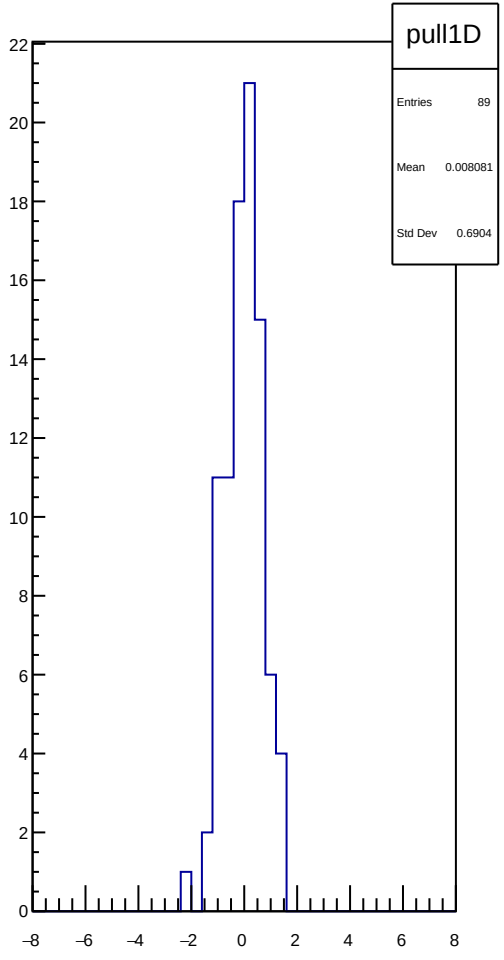

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.385 / 88
p0 0.4703 ± 9.563
pull
Entries 89
Mean 360.1
Std Dev 0

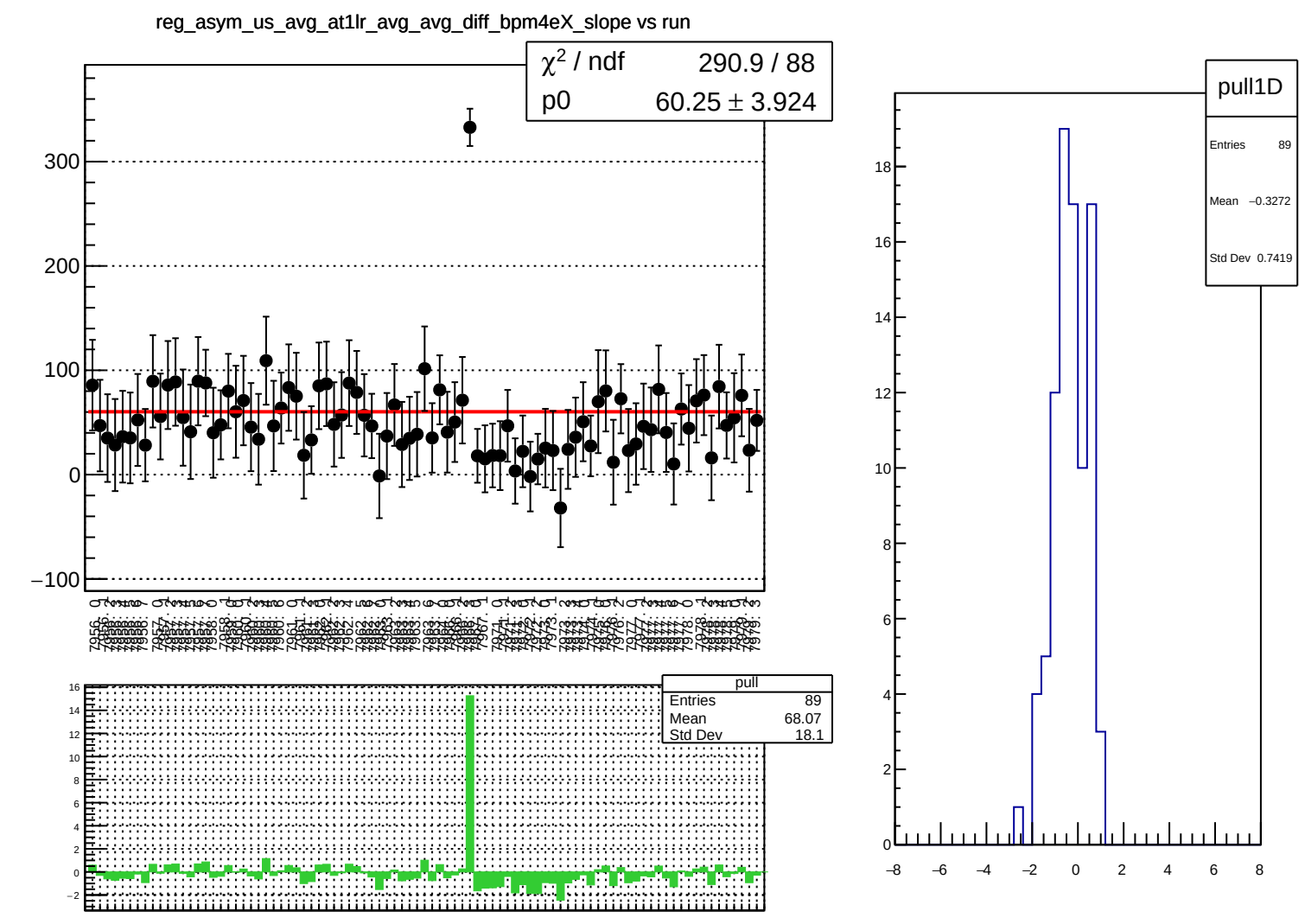

pull1D
Entries 89
Mean −0.001774
Std Dev 0.246

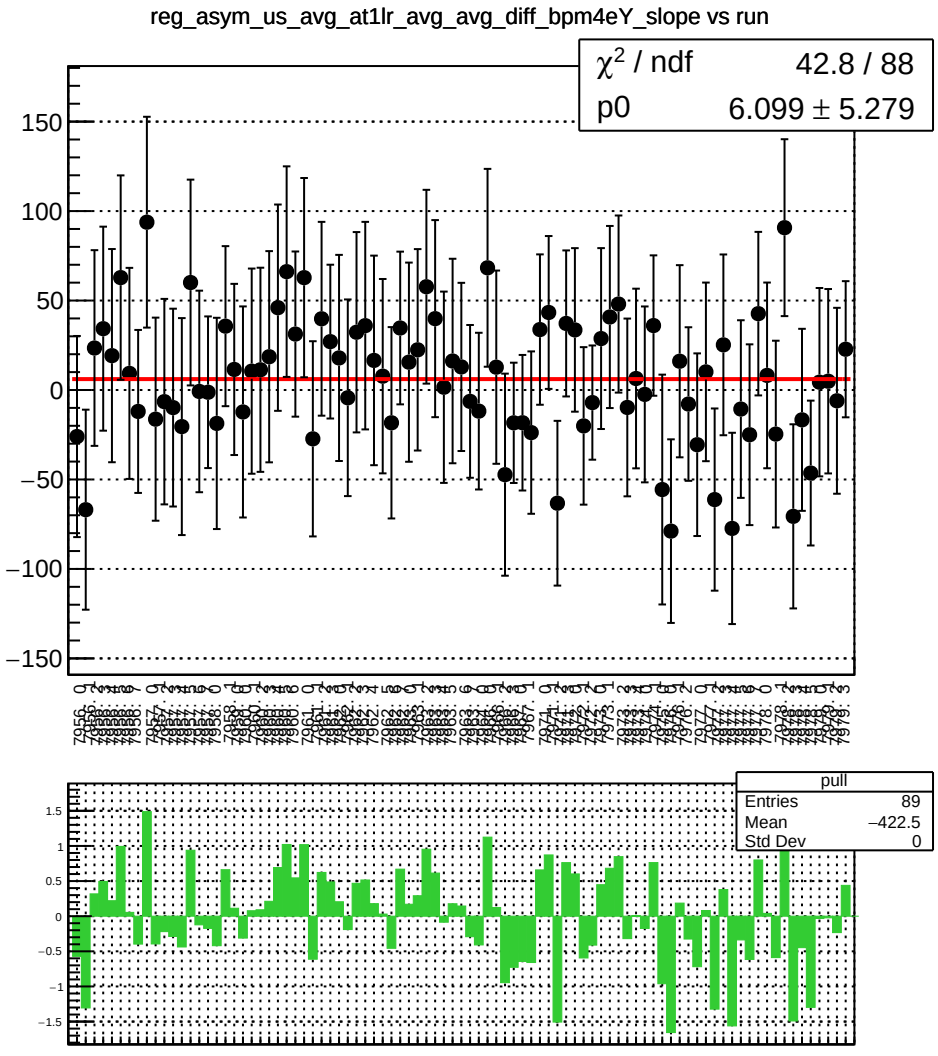

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 348.2 / 88
p0 124.1 ± 0.2755
135
130
125
120
115
110
105
pull
Entries 89
Mean −651.9
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 89
Mean 0.1393
Std Dev 1.787
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

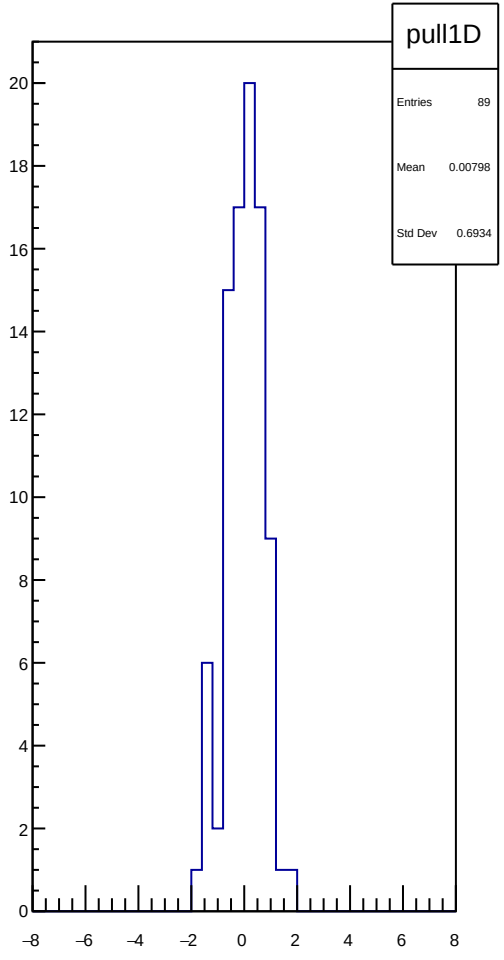

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 300.6 / 88
p0 −79.18 ± 4.412
pull
Entries 89
Mean 61.47
Std Dev 26.21
pull1D
Entries 89
Mean 0.3372
Std Dev 0.7231

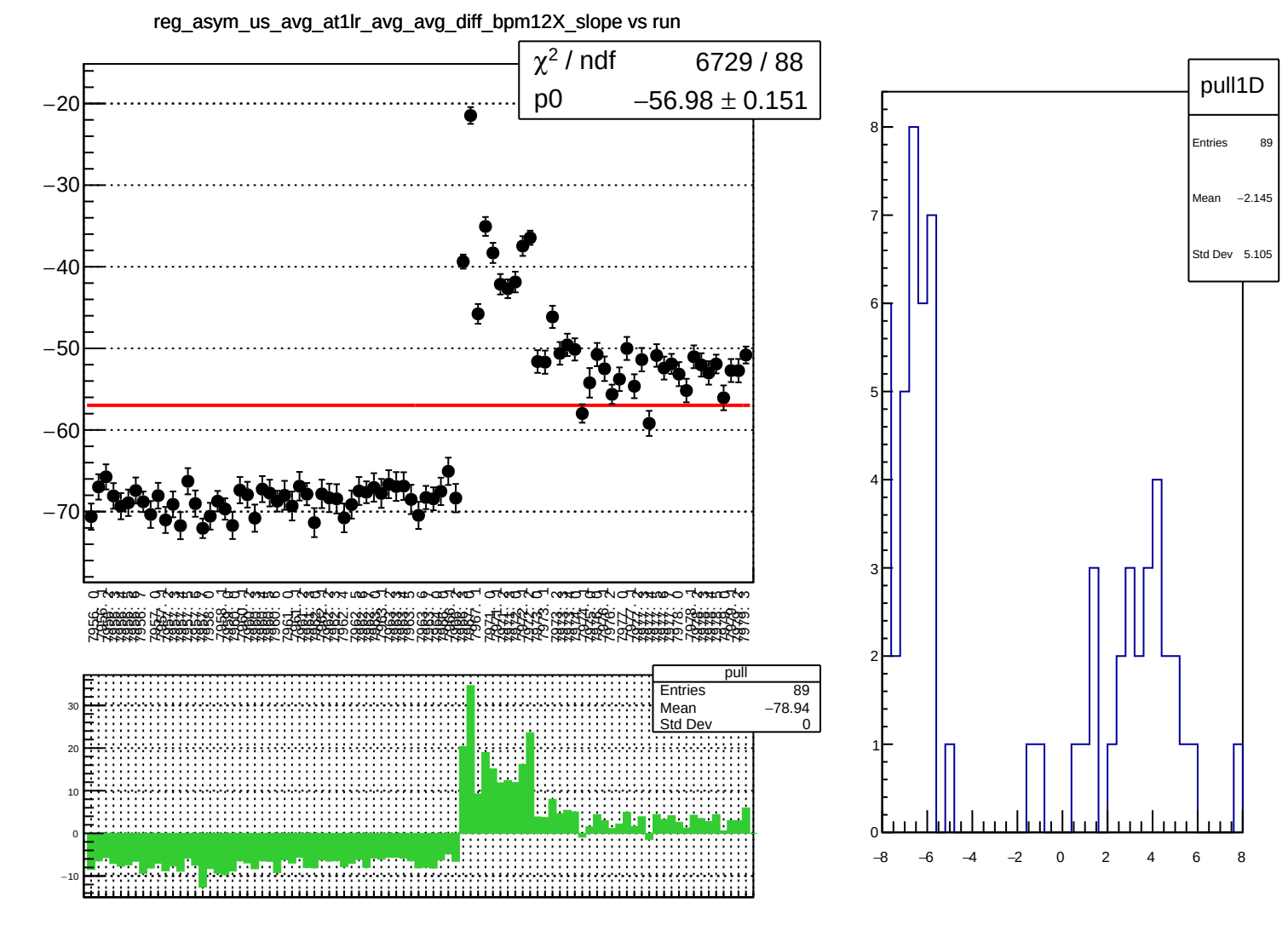

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.42 / 88
p0 14.29 ± 4.614
150
100
50
0
−50
−100
pull
Entries 89
Mean 30.04
Std Dev 81.48
1.5
1
0.5
0
−0.5
−1
−1.5
−2

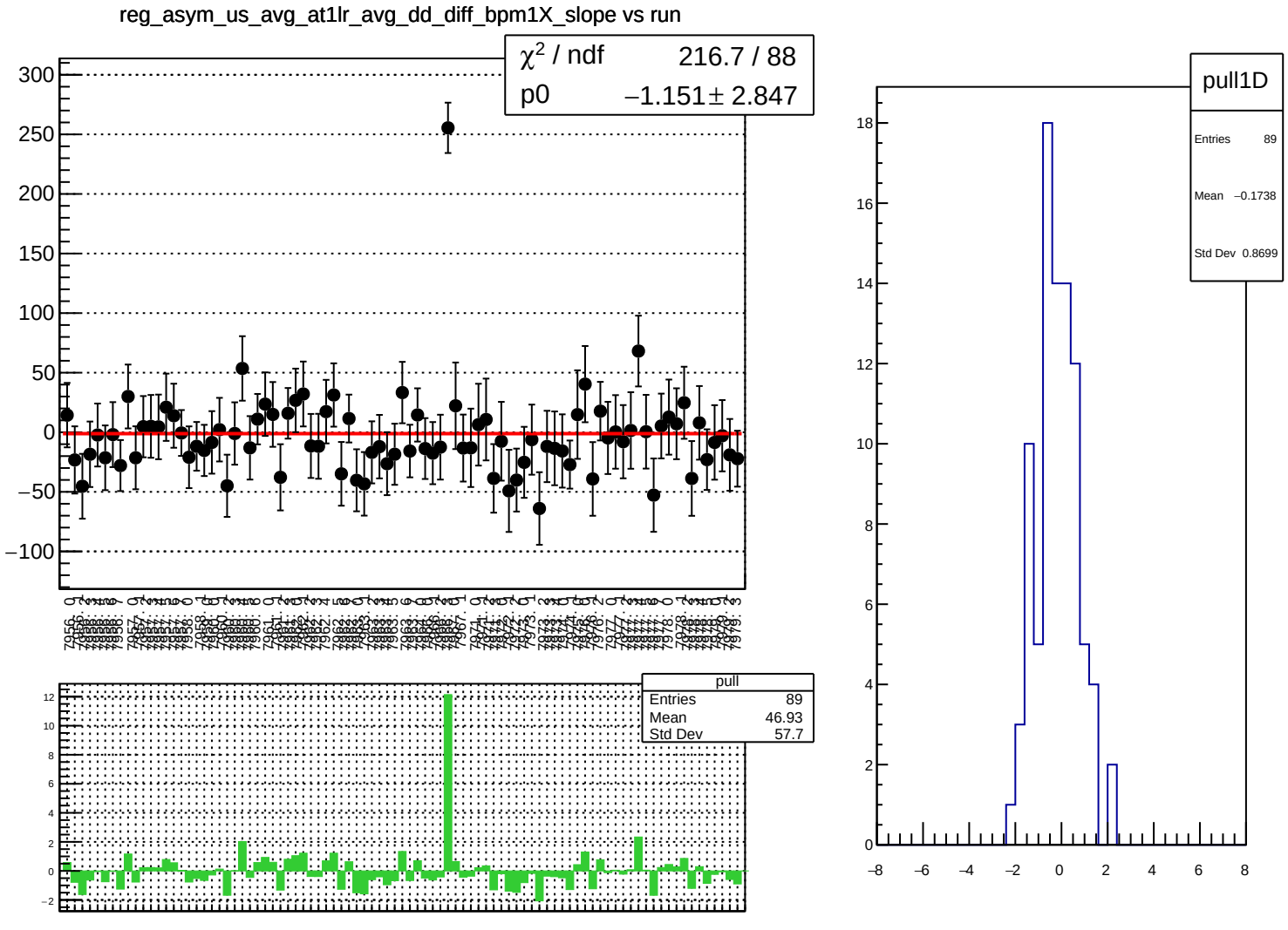

pull1D
Entries 89
Mean 0.008081
Std Dev 0.6904
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

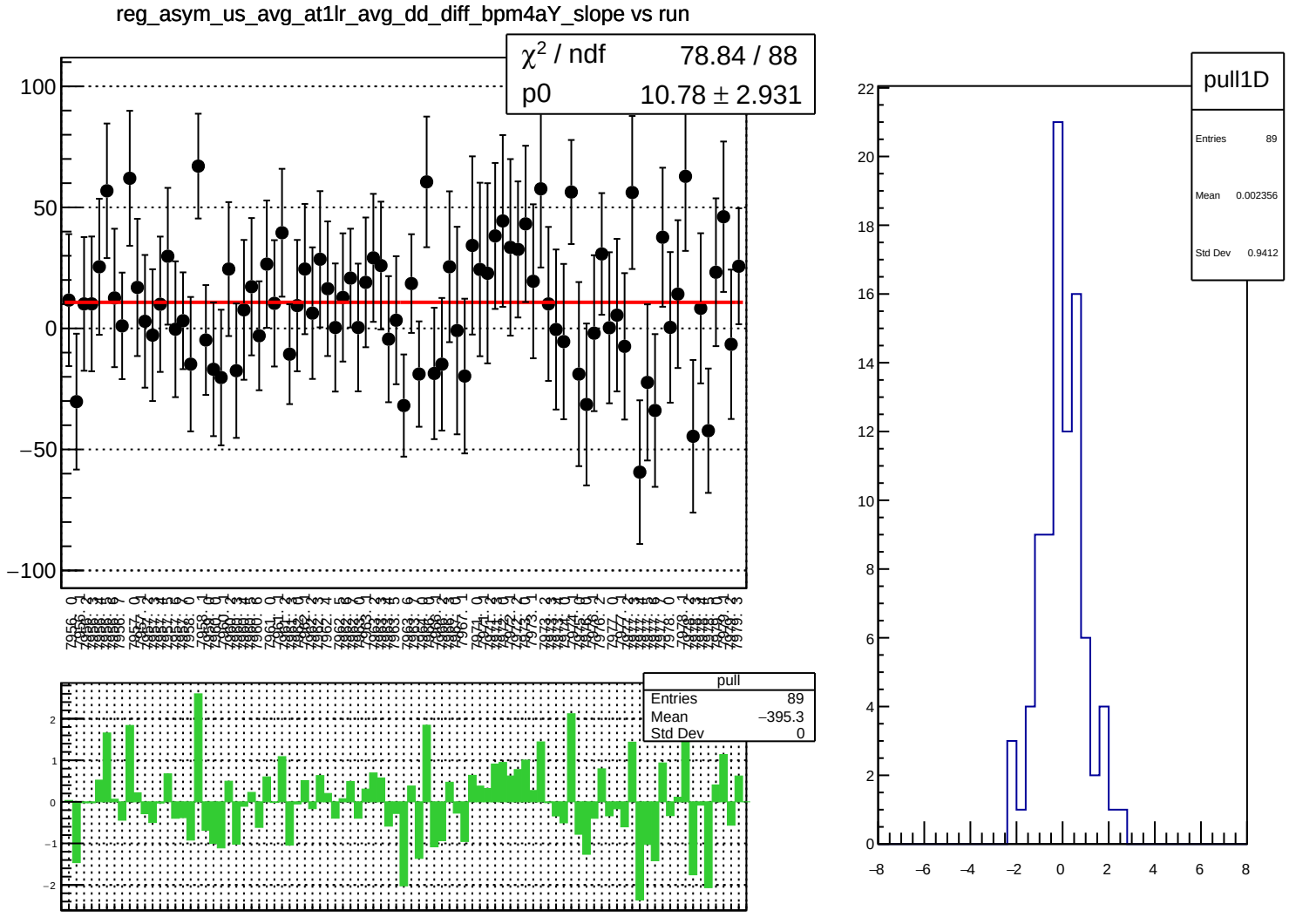

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 290.9 / 88
p0 60.25 ± 3.924
300
200
100
0
−100
pull
Entries 89
Mean 68.07
Std Dev 18.1
16
14
12
10
8
6
4
2
0
−2
pull1D
Entries 89
Mean −0.3272
Std Dev 0.7419
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

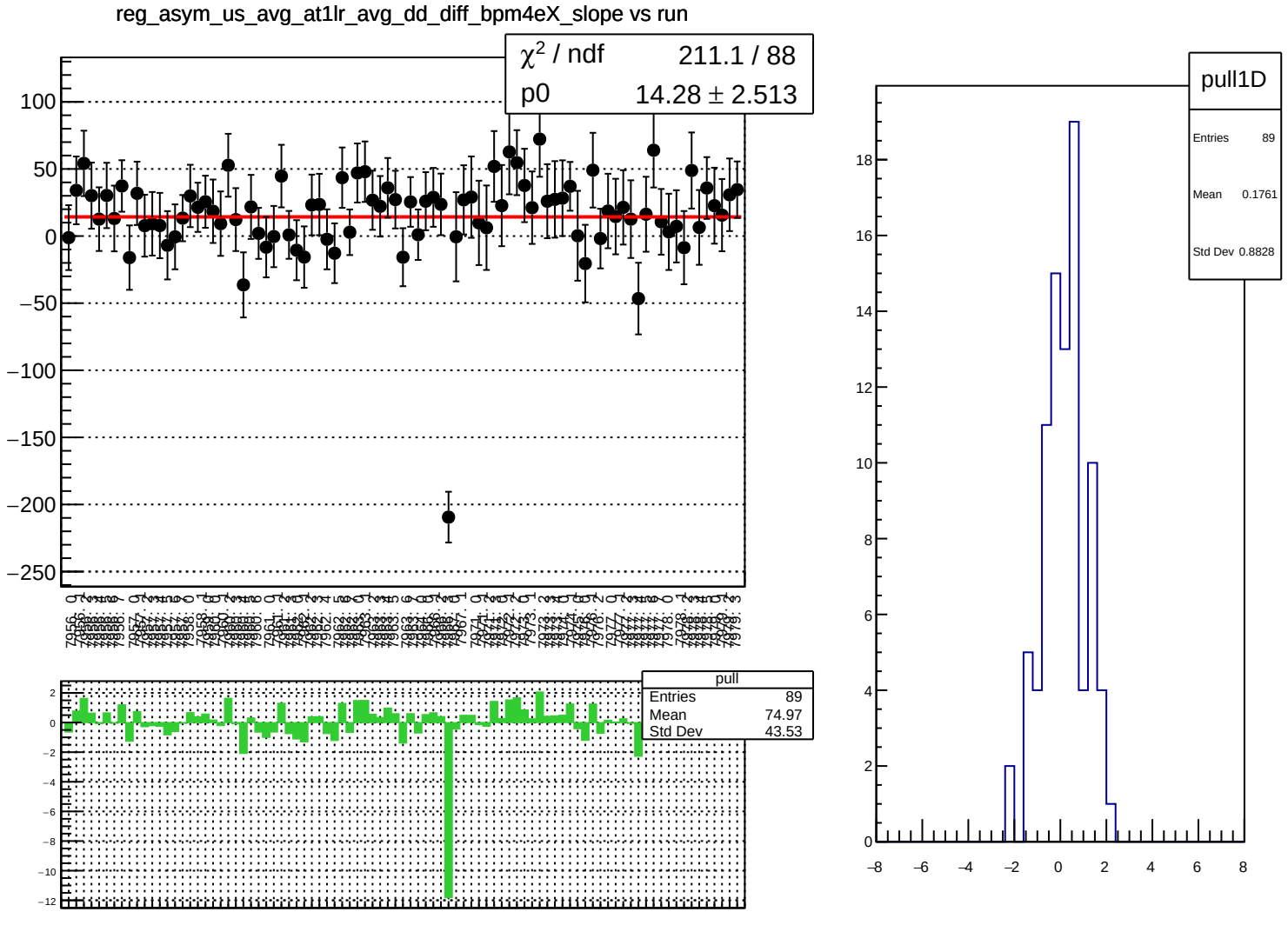

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.8 / 88
p0 6.099 ± 5.279
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −422.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

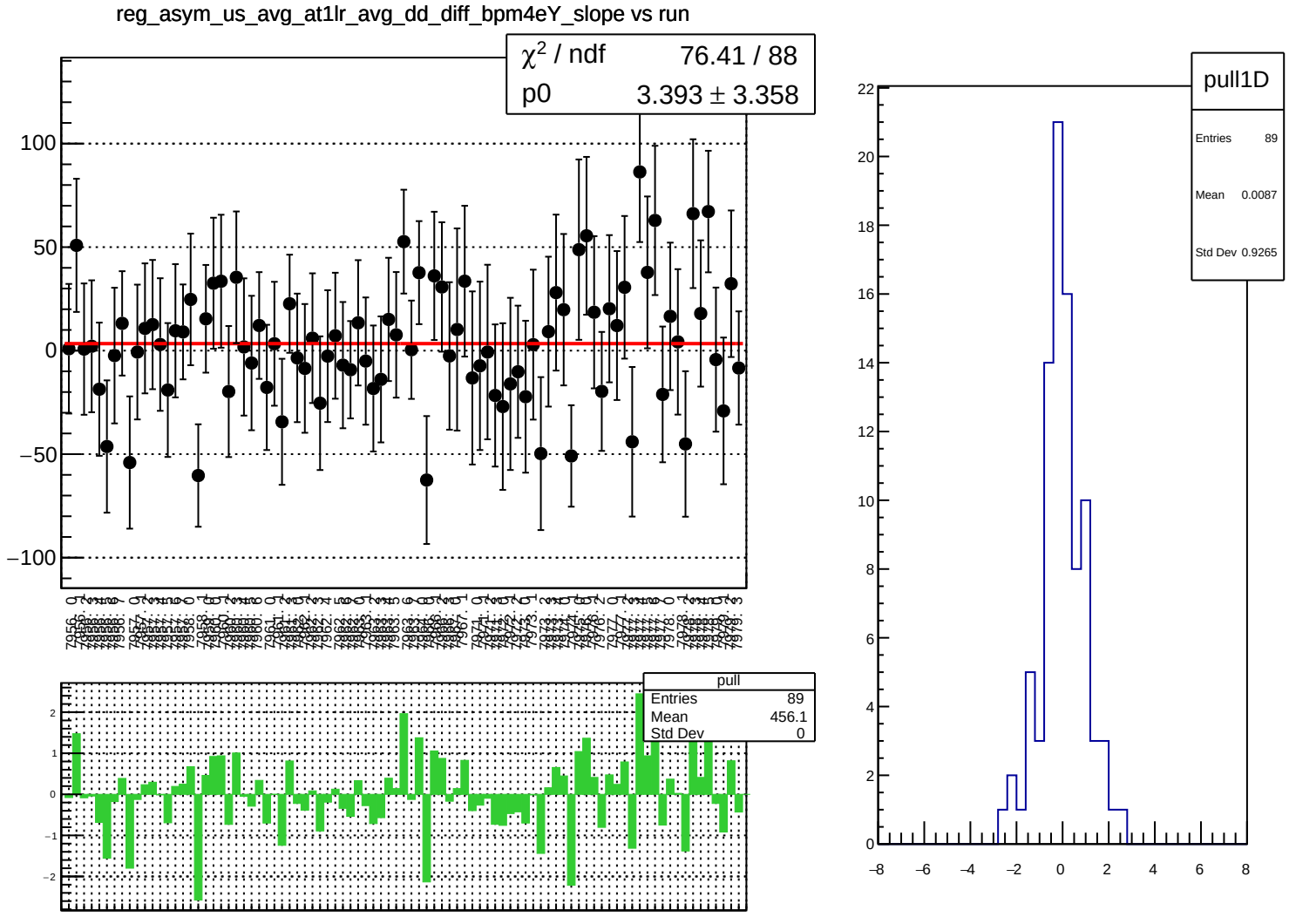

pull1D
Entries 89
Mean 0.00798
Std Dev 0.6934
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

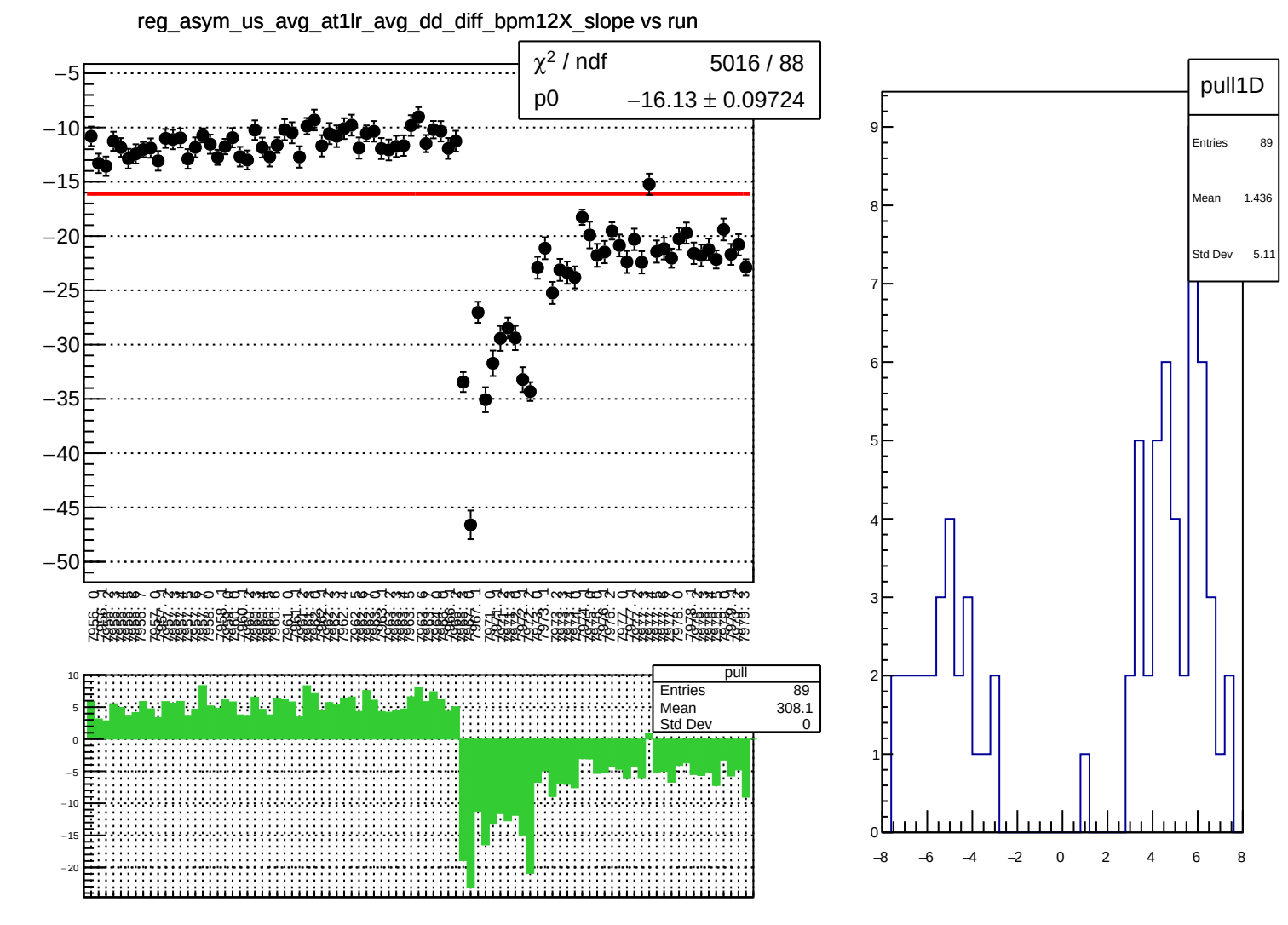

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 6729 / 88
p0 −56.98 ± 0.151
pull
Entries 89
Mean −78.94
Std Dev 0
pull1D
Entries 89
Mean −2.145
Std Dev 5.105

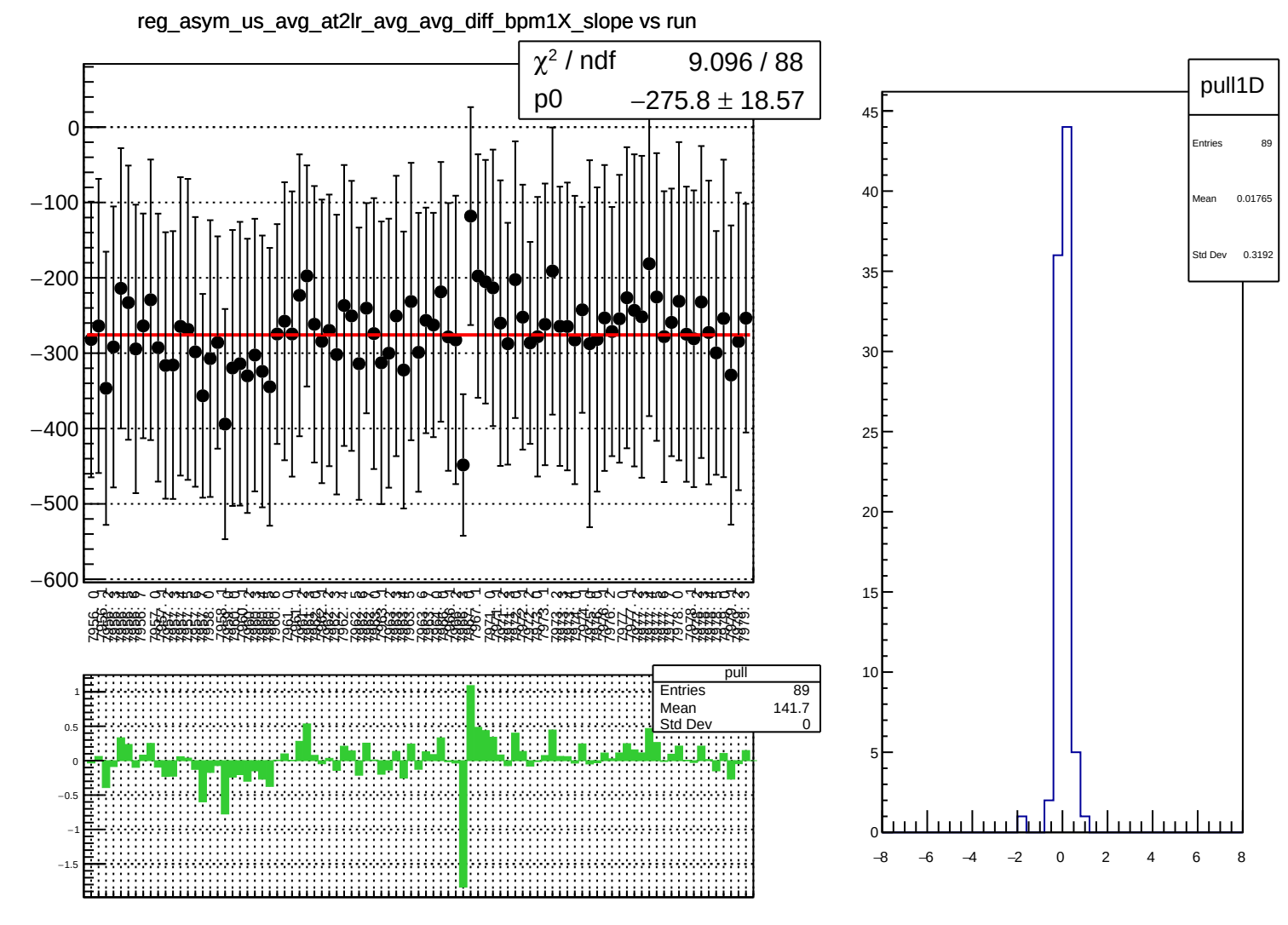

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 216.7 / 88
p0 −1.151 ± 2.847
pull
Entries 89
Mean 46.93
Std Dev 57.7
pull1D
Entries 89
Mean −0.1738
Std Dev 0.8699

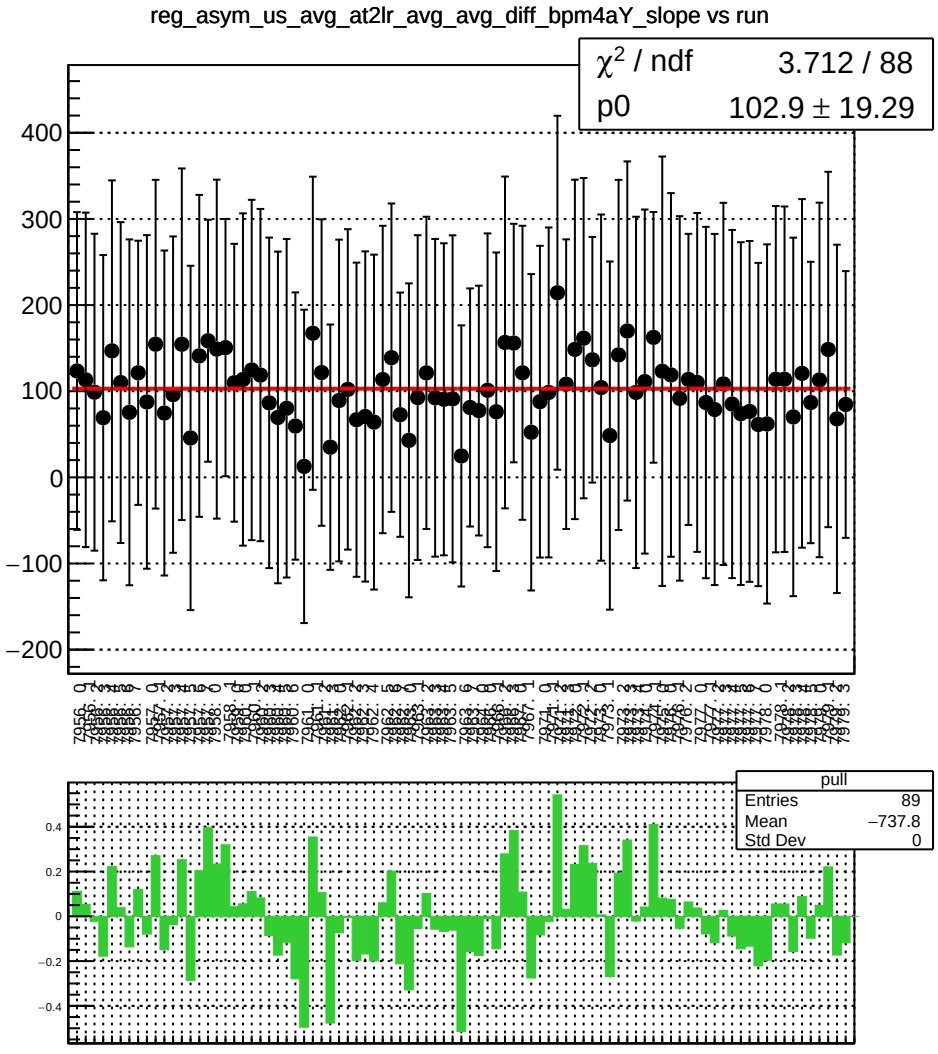

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.84 / 88
p0 10.78 ± 2.931
100
50
0
−50
−100
pull
Entries 89
Mean −395.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.002356
Std Dev 0.9412
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

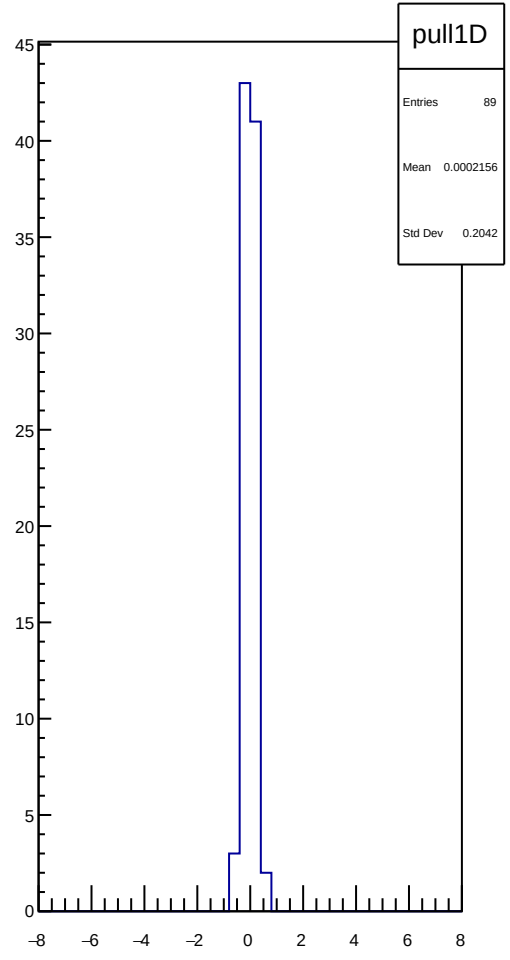

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 211.1 / 88
p0 14.28 ± 2.513
pull
Entries 89
Mean 74.97
Std Dev 43.53
pull1D
Entries 89
Mean 0.1761
Std Dev 0.8828

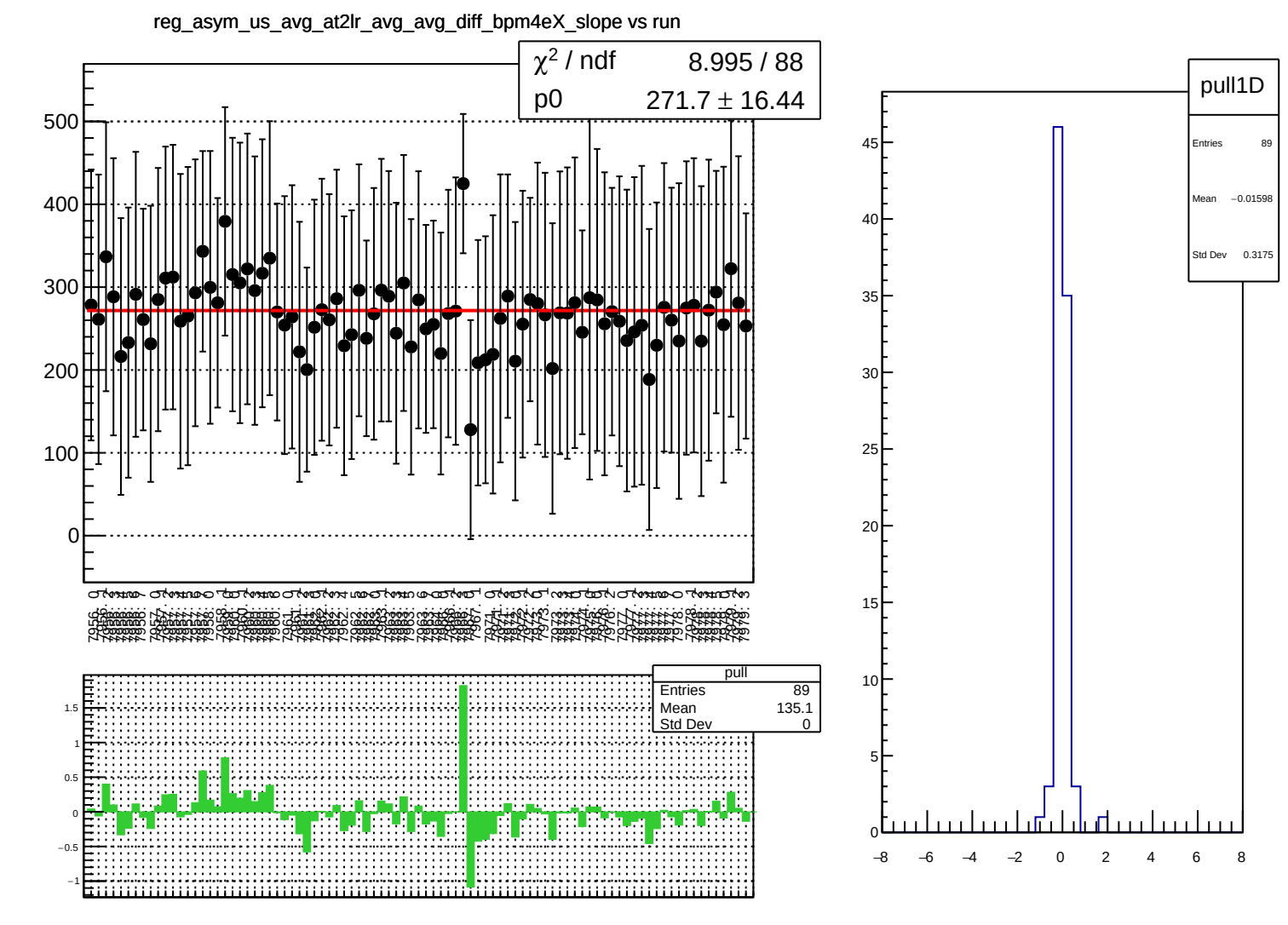

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.41 / 88
p0 3.393 ± 3.358
pull
Entries 89
Mean 456.1
Std Dev 0
pull1D
Entries 89
Mean 0.0087
Std Dev 0.9265

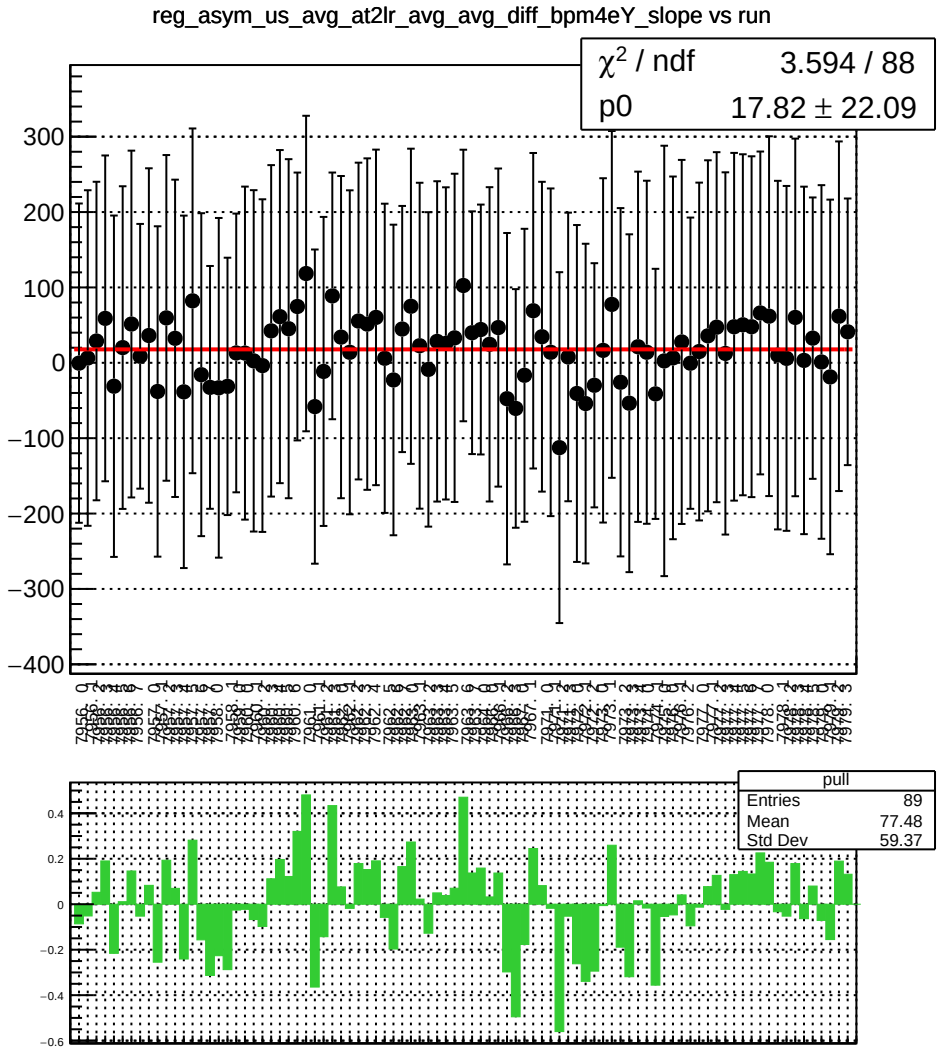

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 5016 / 88
p0 −16.13 ± 0.09724
pull
Entries 89
Mean 308.1
Std Dev 0
pull1D
Entries 89
Mean 1.436
Std Dev 5.11

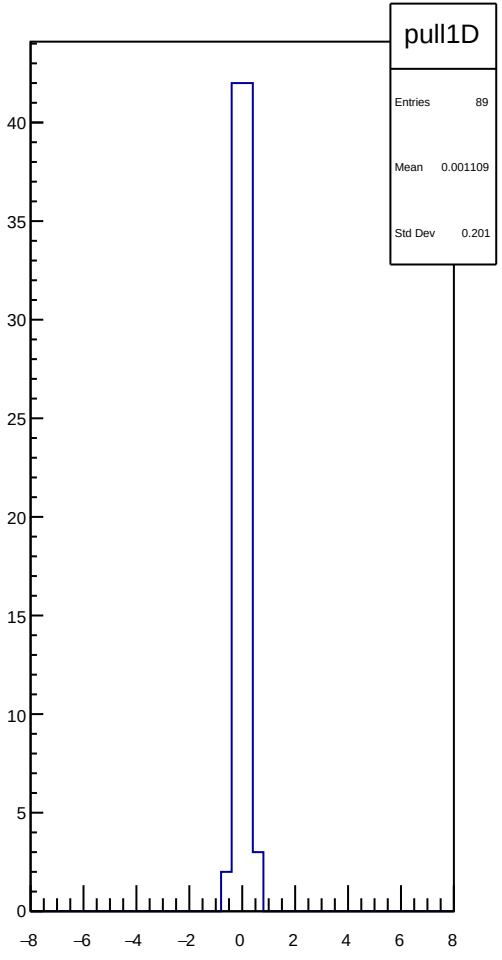

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 9.096 / 88
p0 −275.8 ± 18.57
pull
Entries 89
Mean 141.7
Std Dev 0
pull1D
Entries 89
Mean 0.01765
Std Dev 0.3192

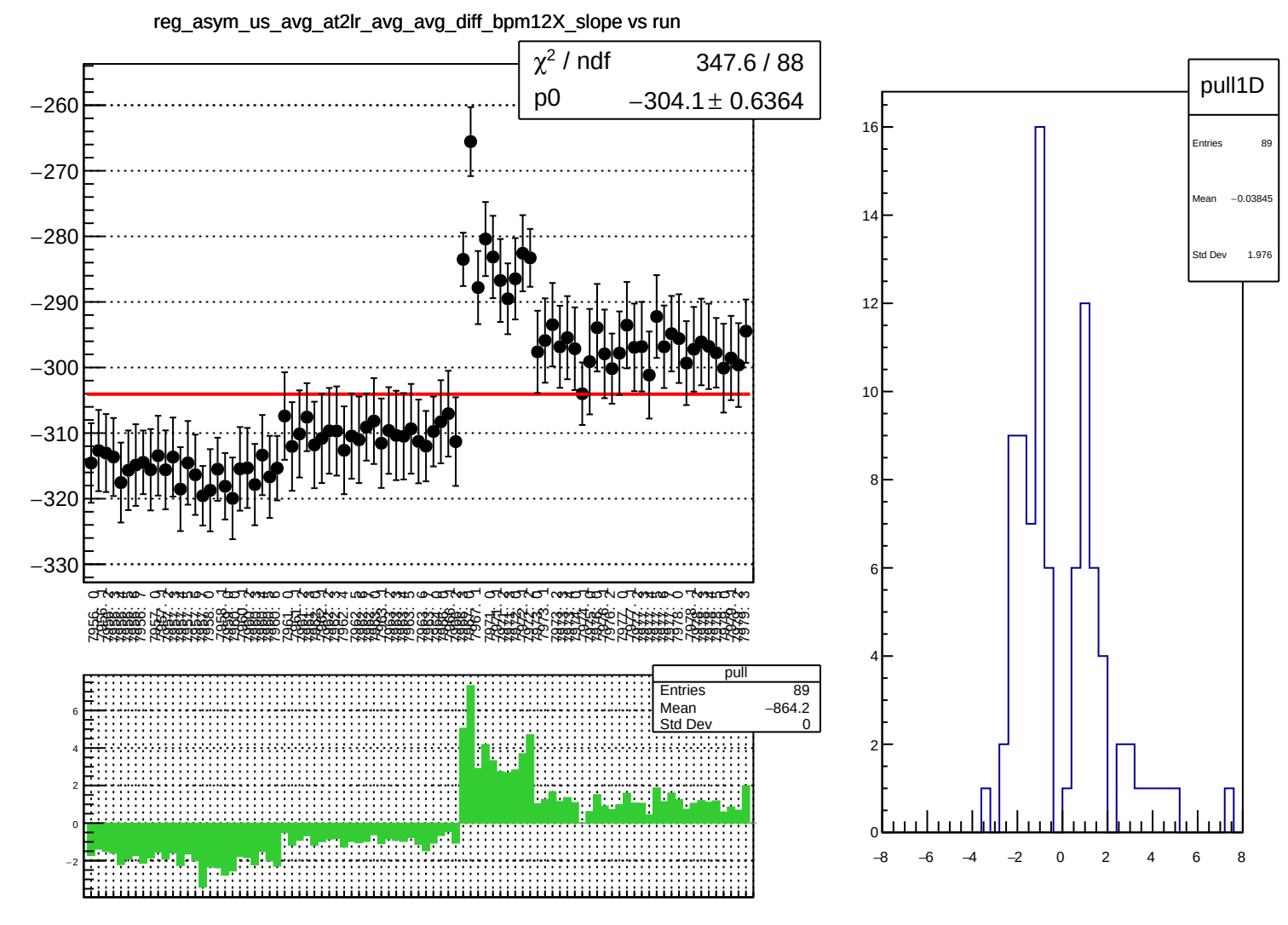

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.712 / 88
p0 102.9 ± 19.29
pull
Entries 89
Mean −737.8
Std Dev 0

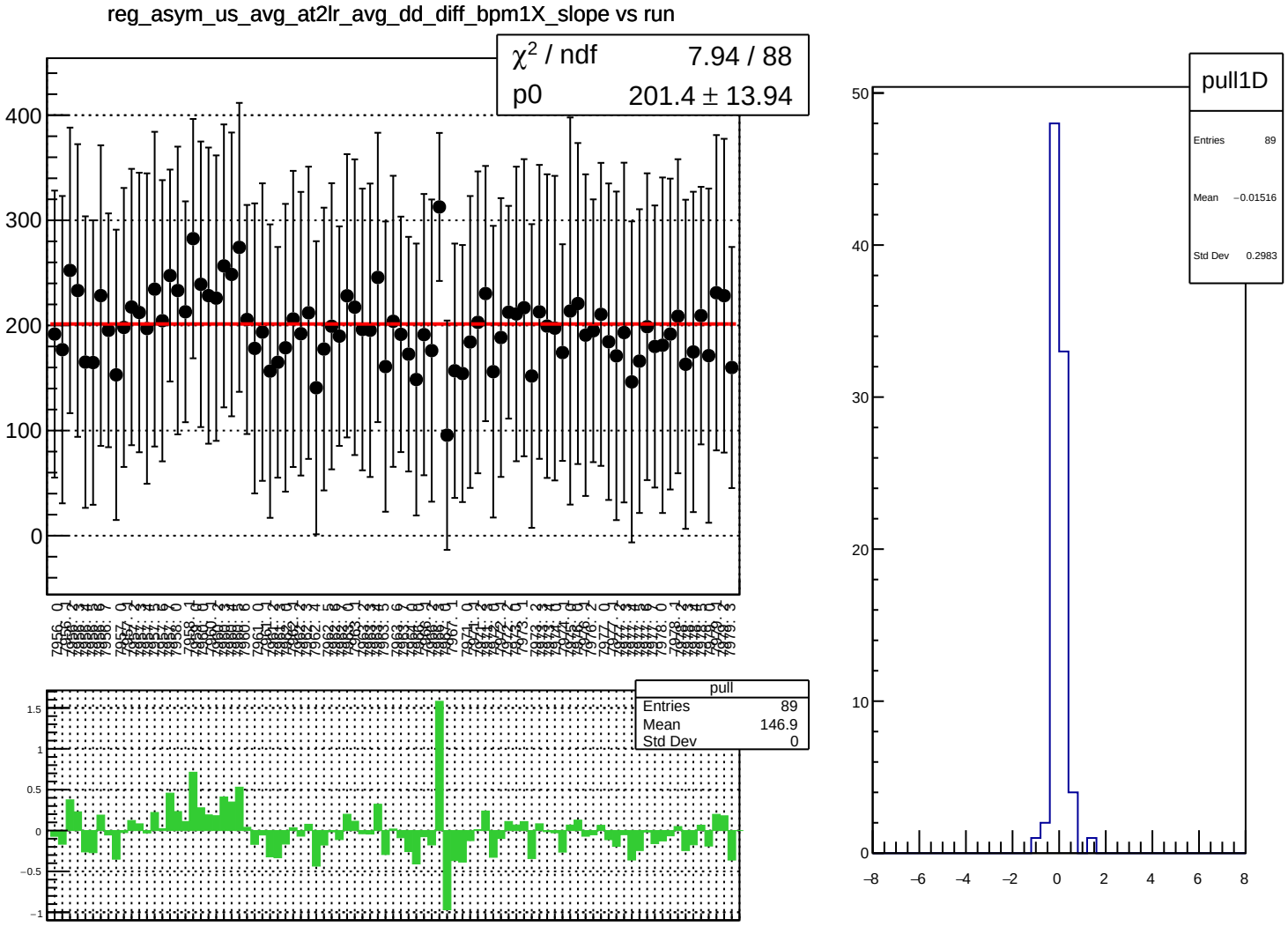

pull1D
Entries 89
Mean 0.0002156
Std Dev 0.2042

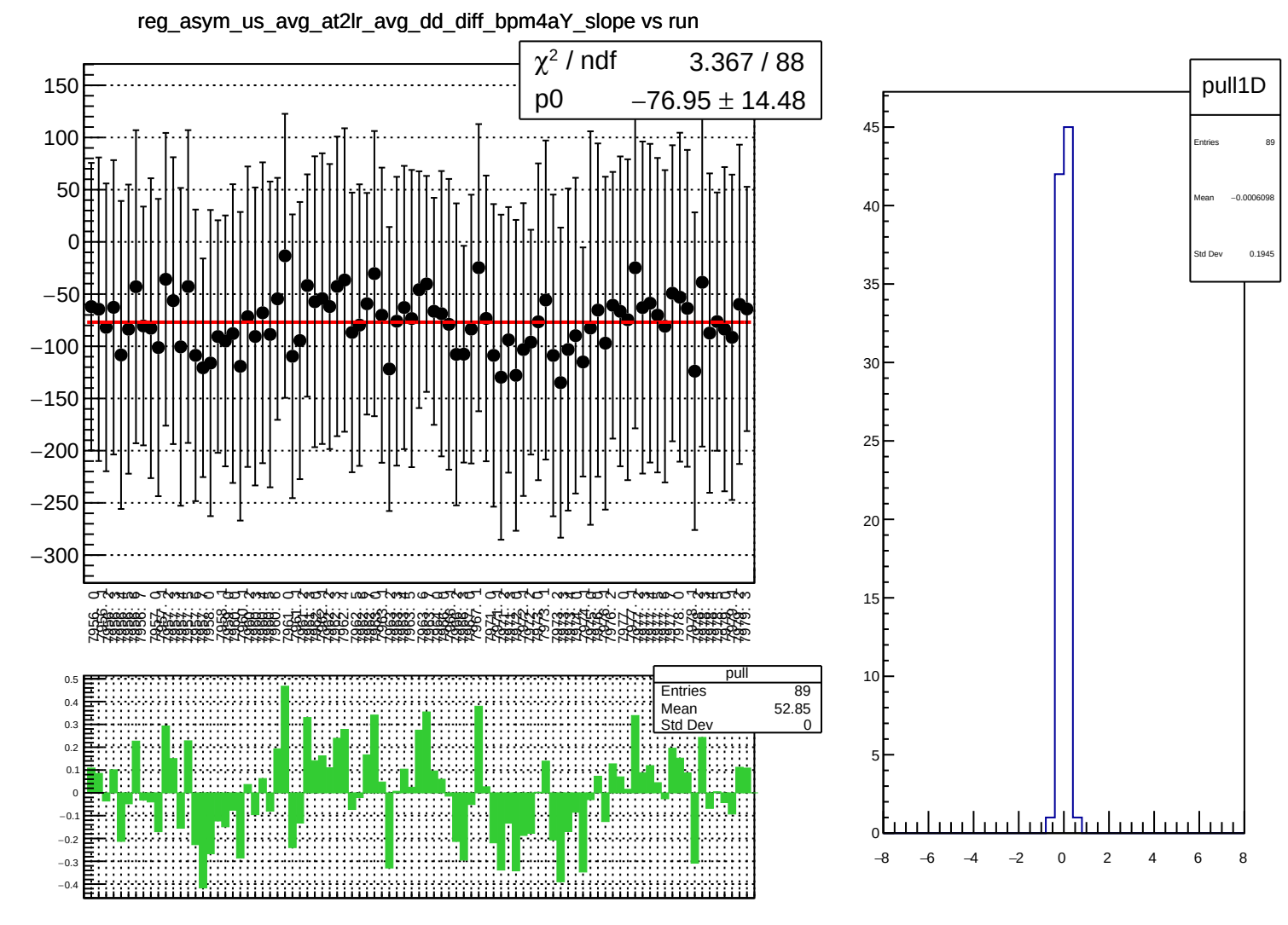

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.995 / 88
p0 271.7 ± 16.44
500
400
300
200
100
0
pull
Entries 89
Mean 135.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.01598
Std Dev 0.3175
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

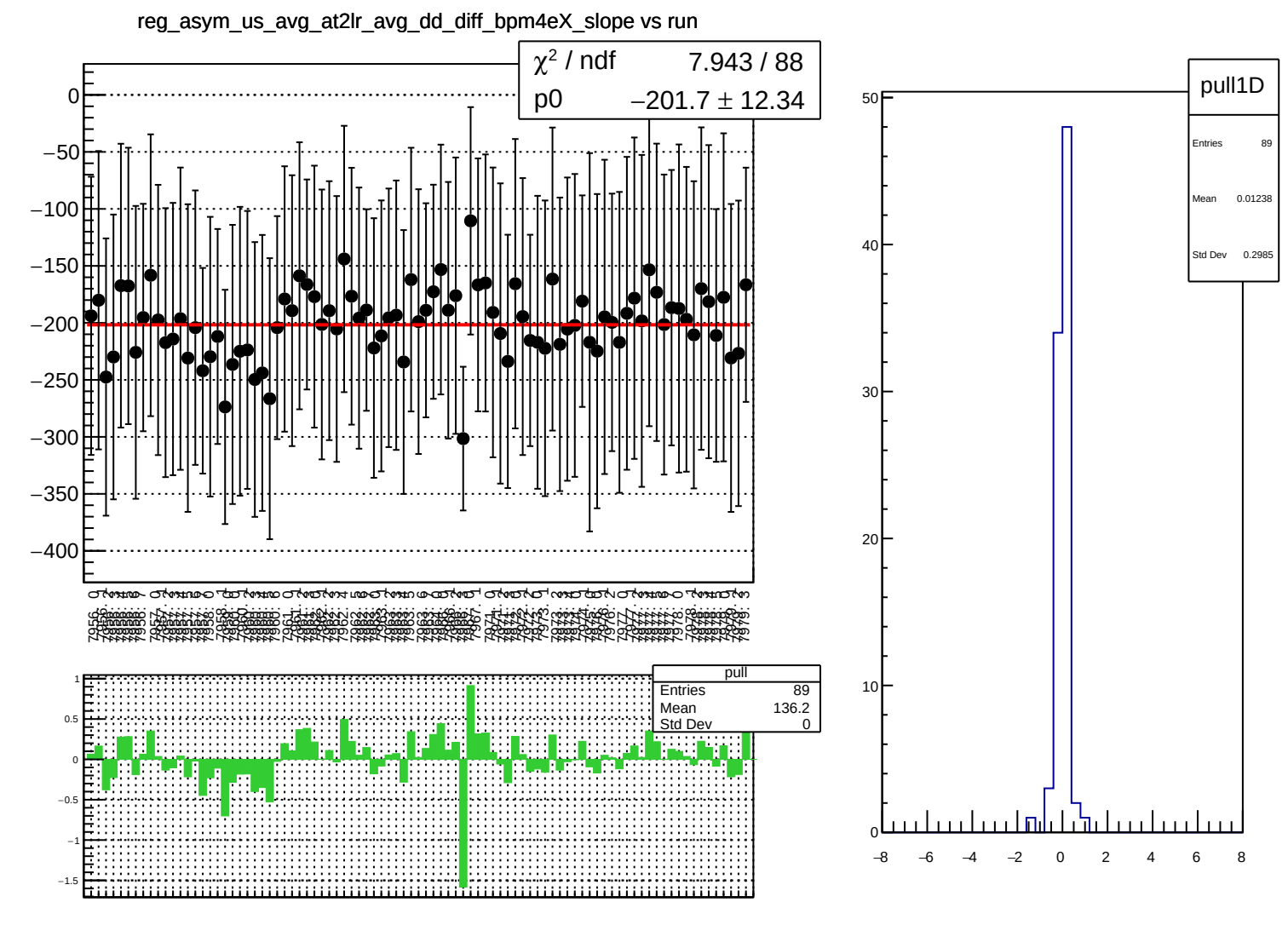

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.594 / 88
p0 17.82 ± 22.09
pull
Entries 89
Mean 77.48
Std Dev 59.37

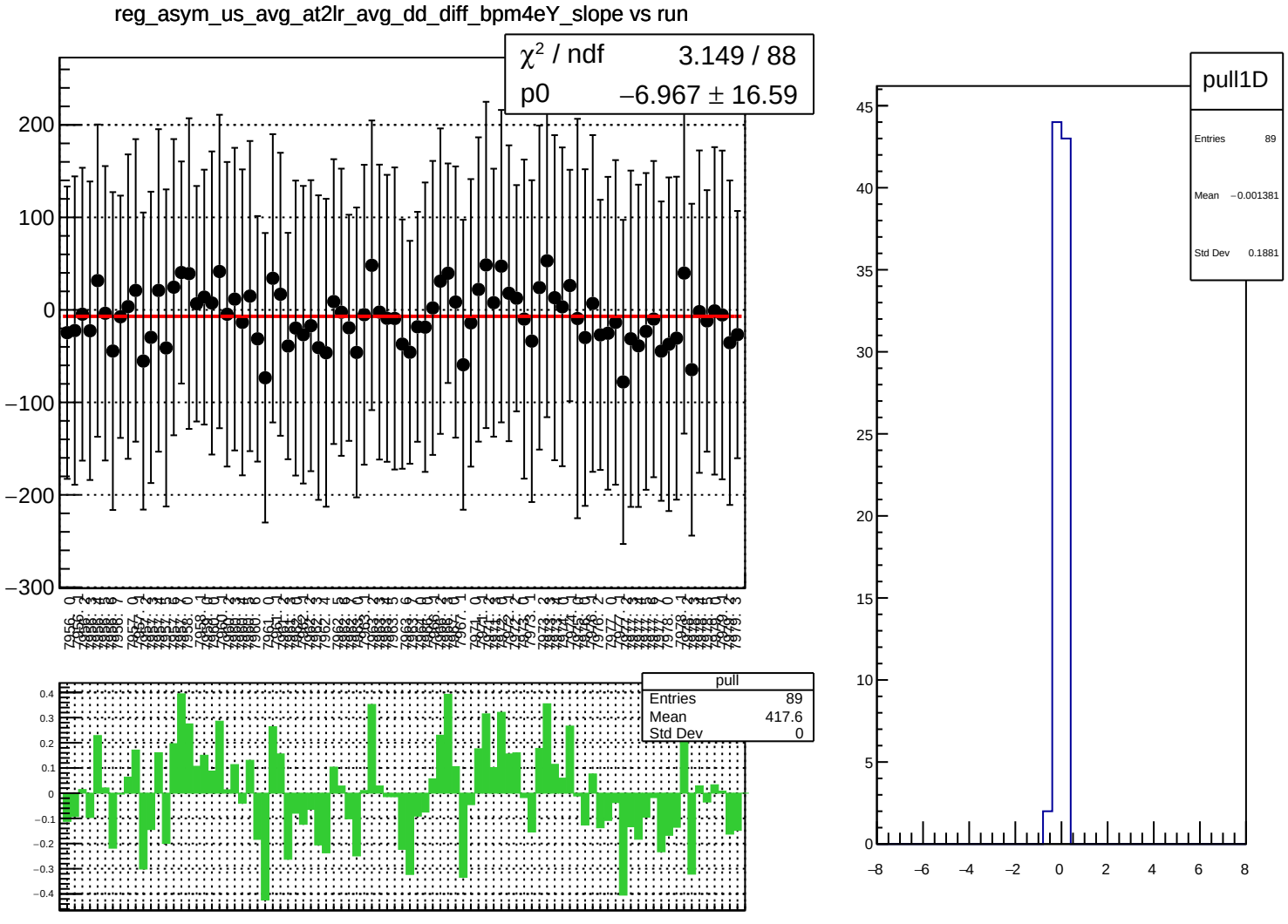

pull1D
Entries 89
Mean 0.001109
Std Dev 0.201

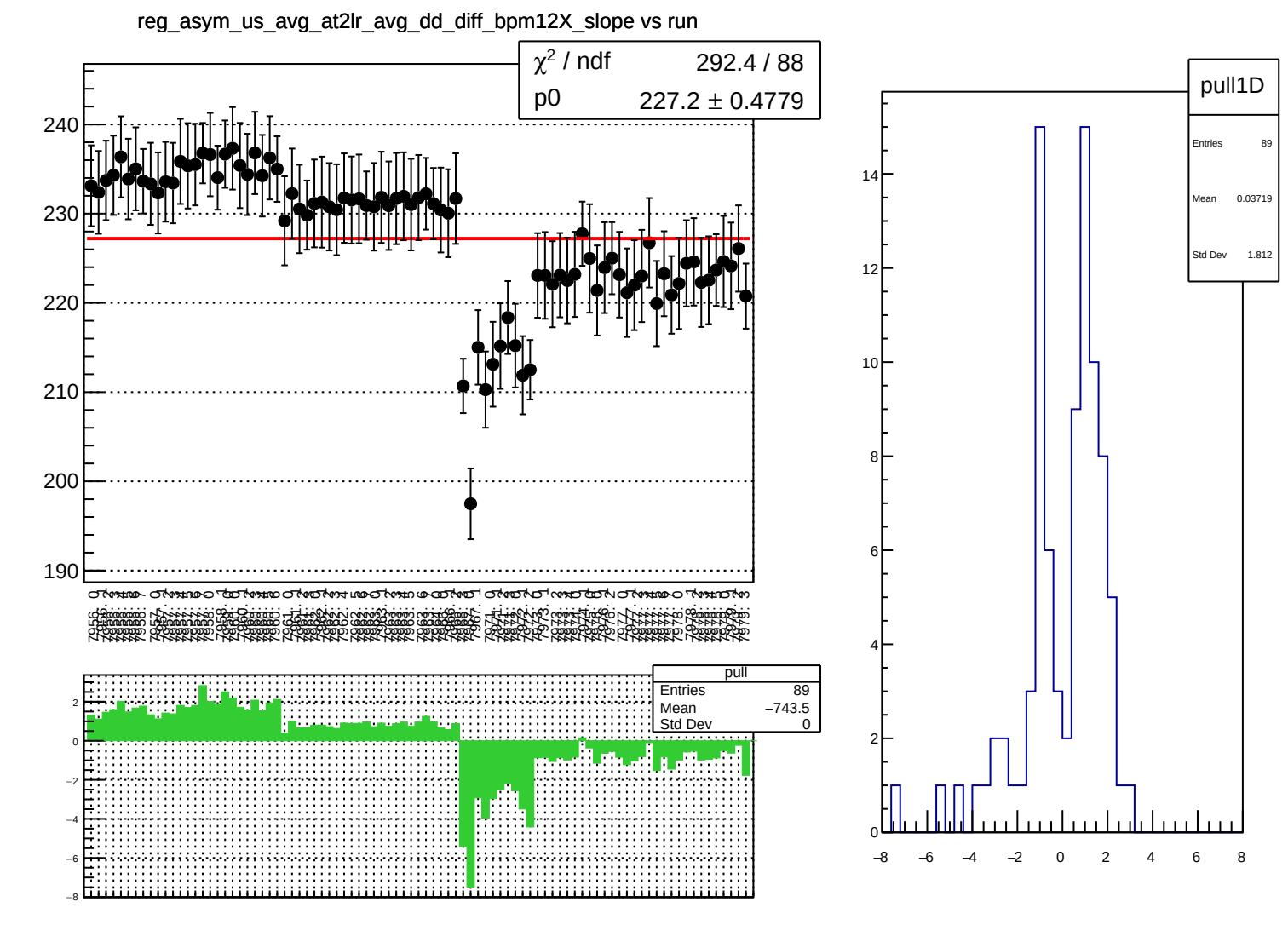

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 347.6 / 88
p0 −304.1 ± 0.6364
pull
Entries 89
Mean −864.2
Std Dev 0
pull1D
Entries 89
Mean −0.03845
Std Dev 1.976

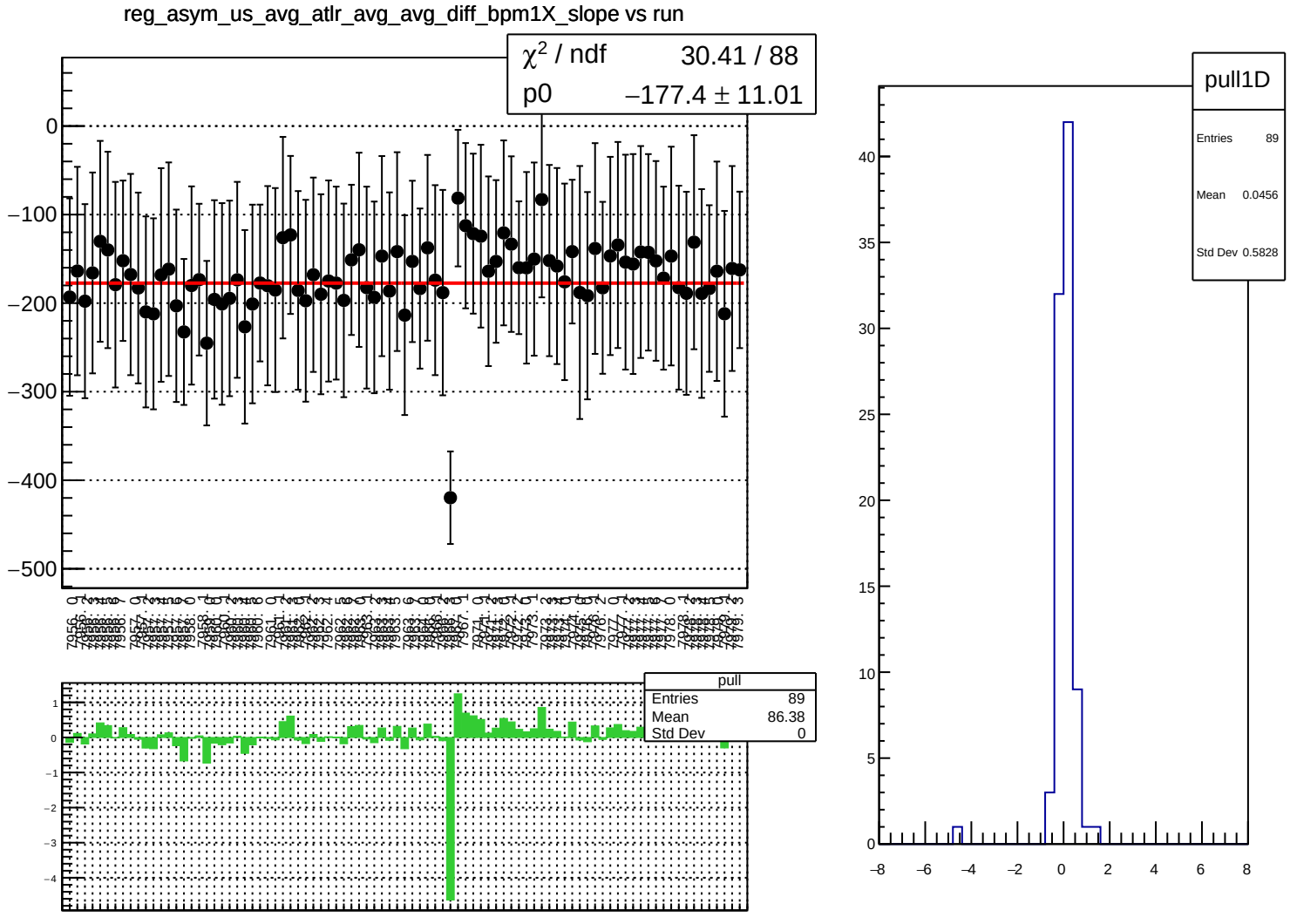

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 7.94 / 88
p0 201.4 ± 13.94
pull
Entries 89
Mean 146.9
Std Dev 0
pull1D
Entries 89
Mean −0.01516
Std Dev 0.2983

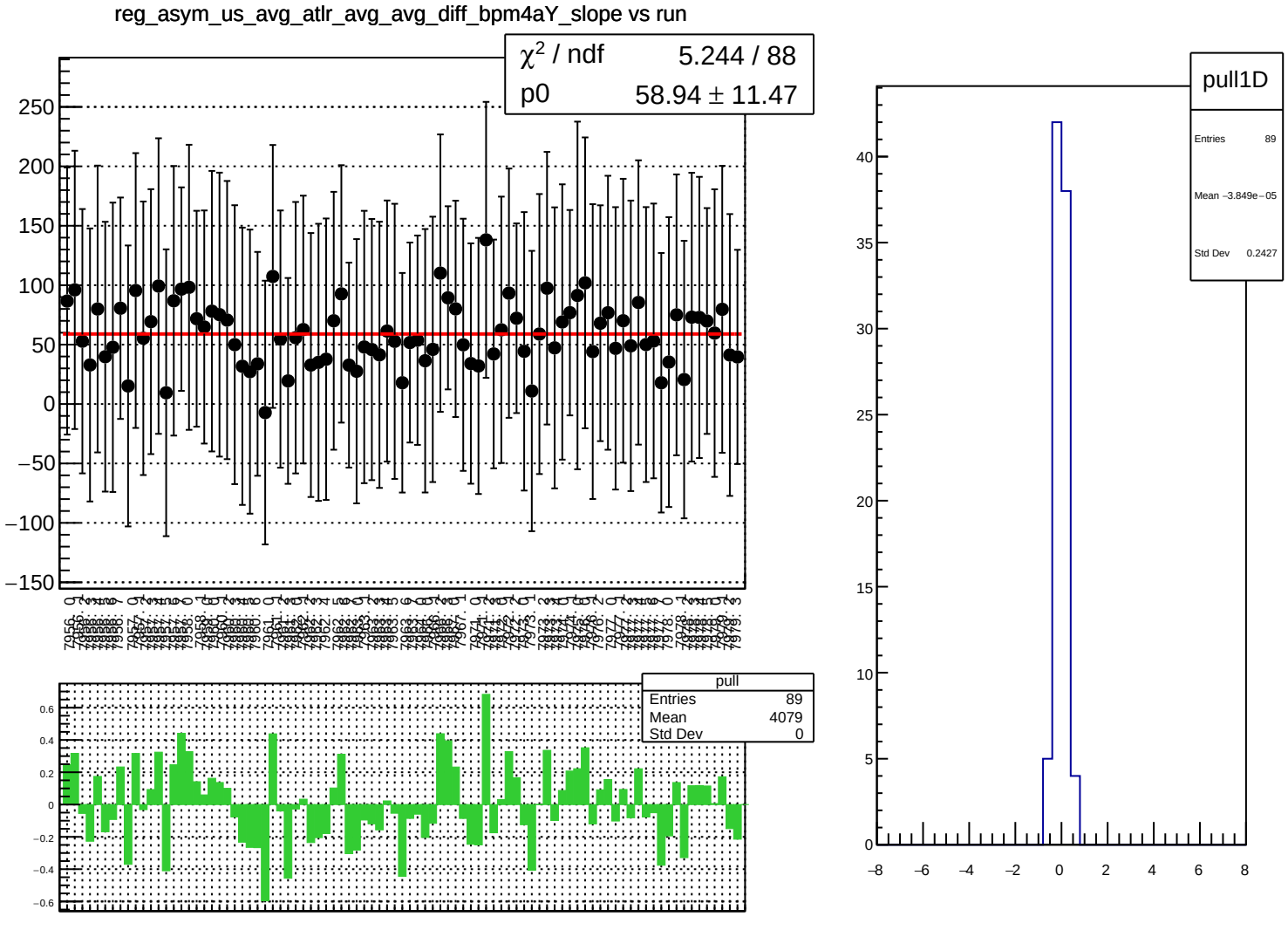

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.367 / 88
p0 −76.95 ± 14.48
150
100
50
0
−50
−100
−150
−200
−250
−300
pull
Entries 89
Mean 52.85
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 89
Mean −0.0006098
Std Dev 0.1945
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

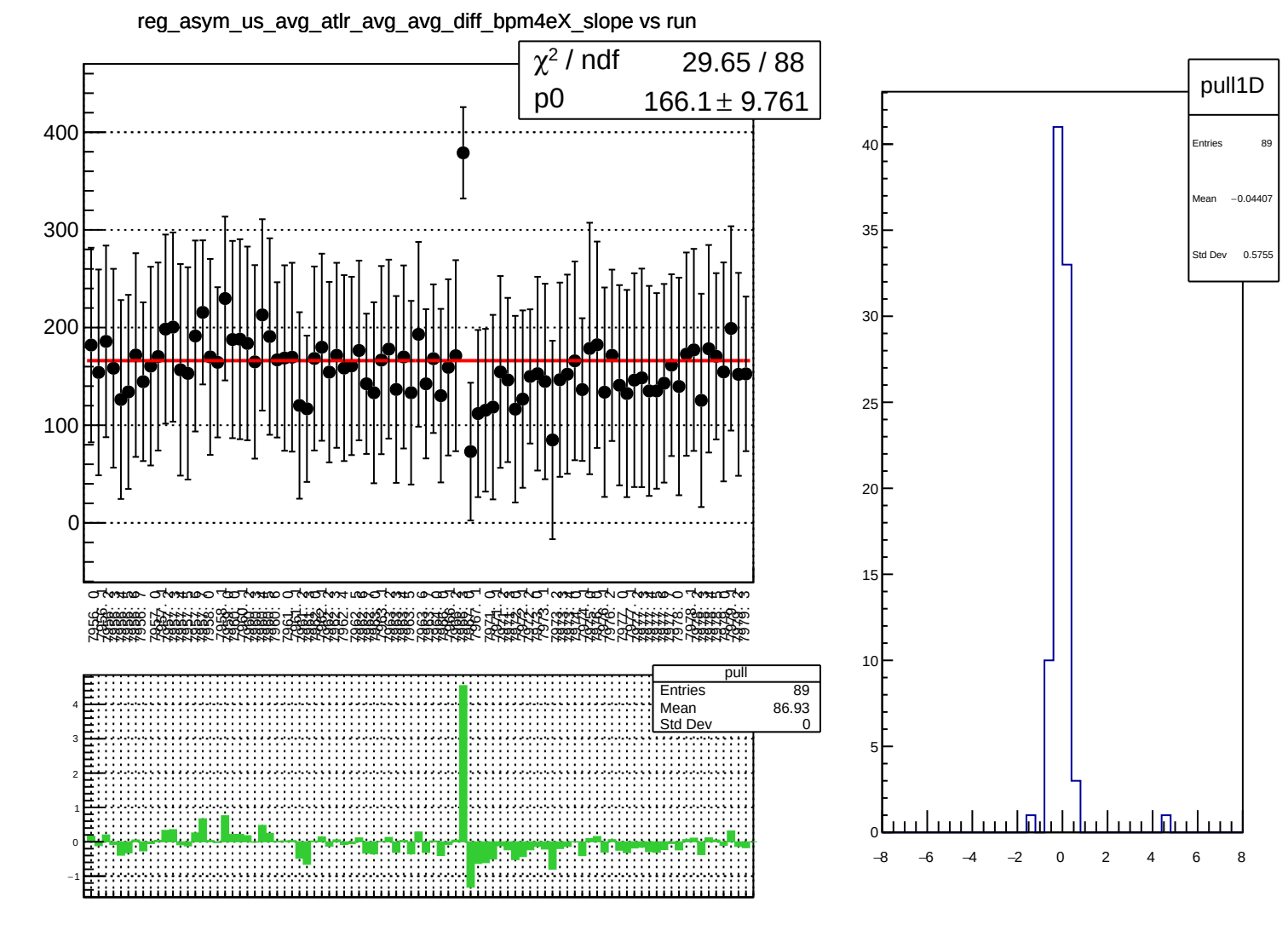

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.943 / 88
p0 −201.7 ± 12.34
pull
Entries 89
Mean 136.2
Std Dev 0
pull1D
Entries 89
Mean 0.01238
Std Dev 0.2985

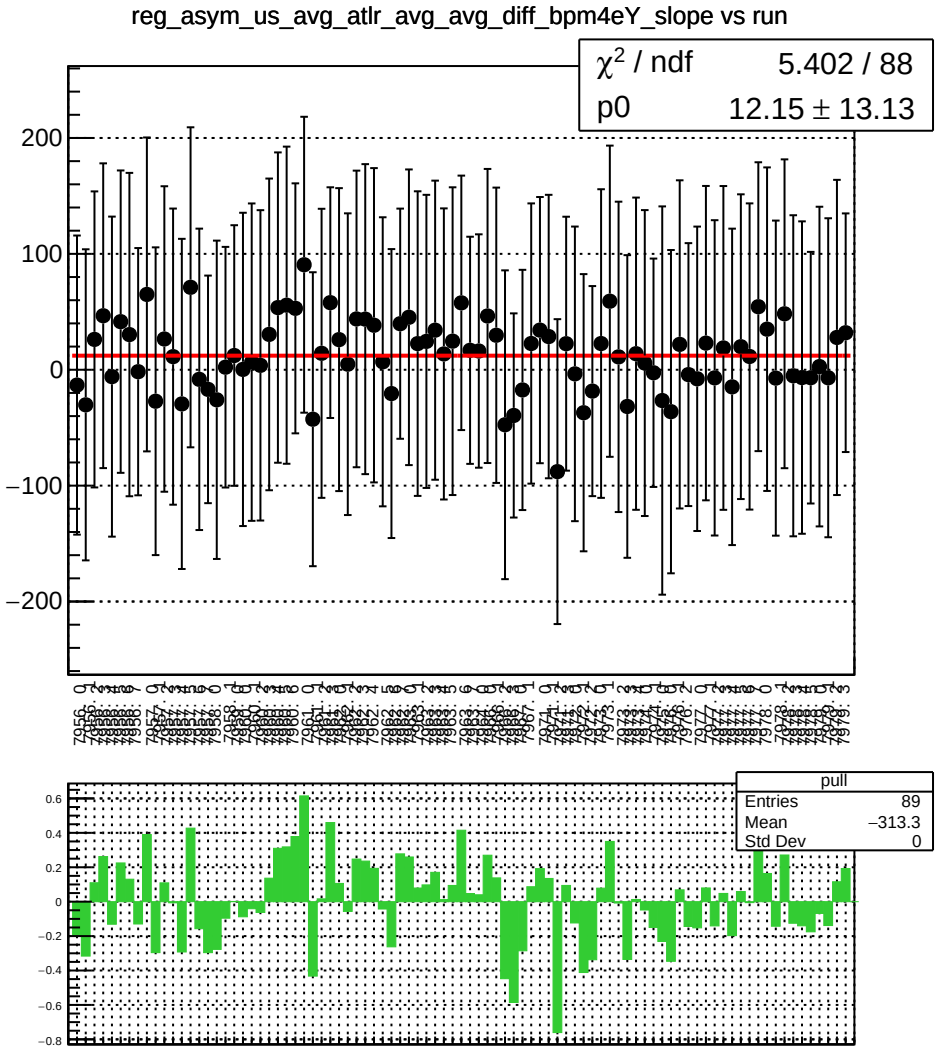

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.149 / 88
p0 −6.967 ± 16.59
pull
Entries 89
Mean 417.6
Std Dev 0
pull1D
Entries 89
Mean −0.001381
Std Dev 0.1881

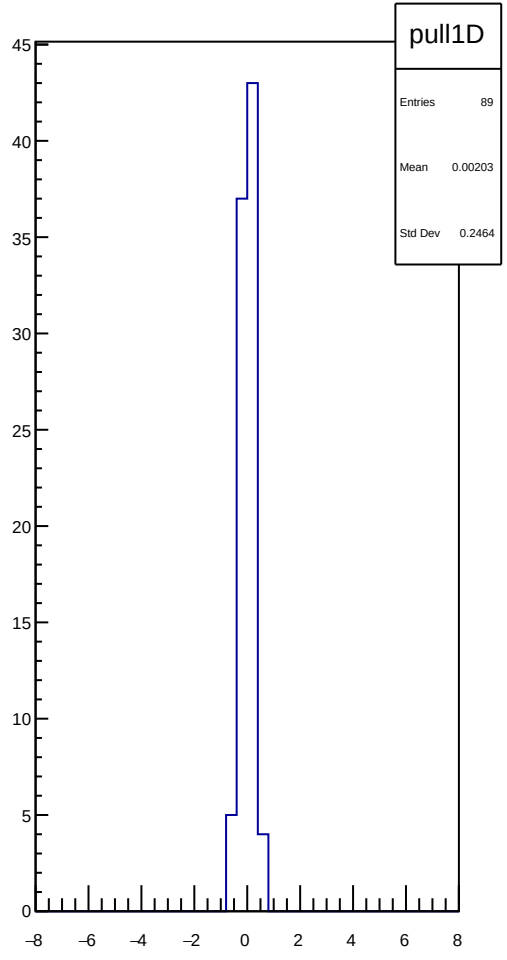

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 292.4 / 88
p0 227.2 ± 0.4779
240
230
220
210
200
190
pull
Entries 89
Mean −743.5
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 89
Mean 0.03719
Std Dev 1.812
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

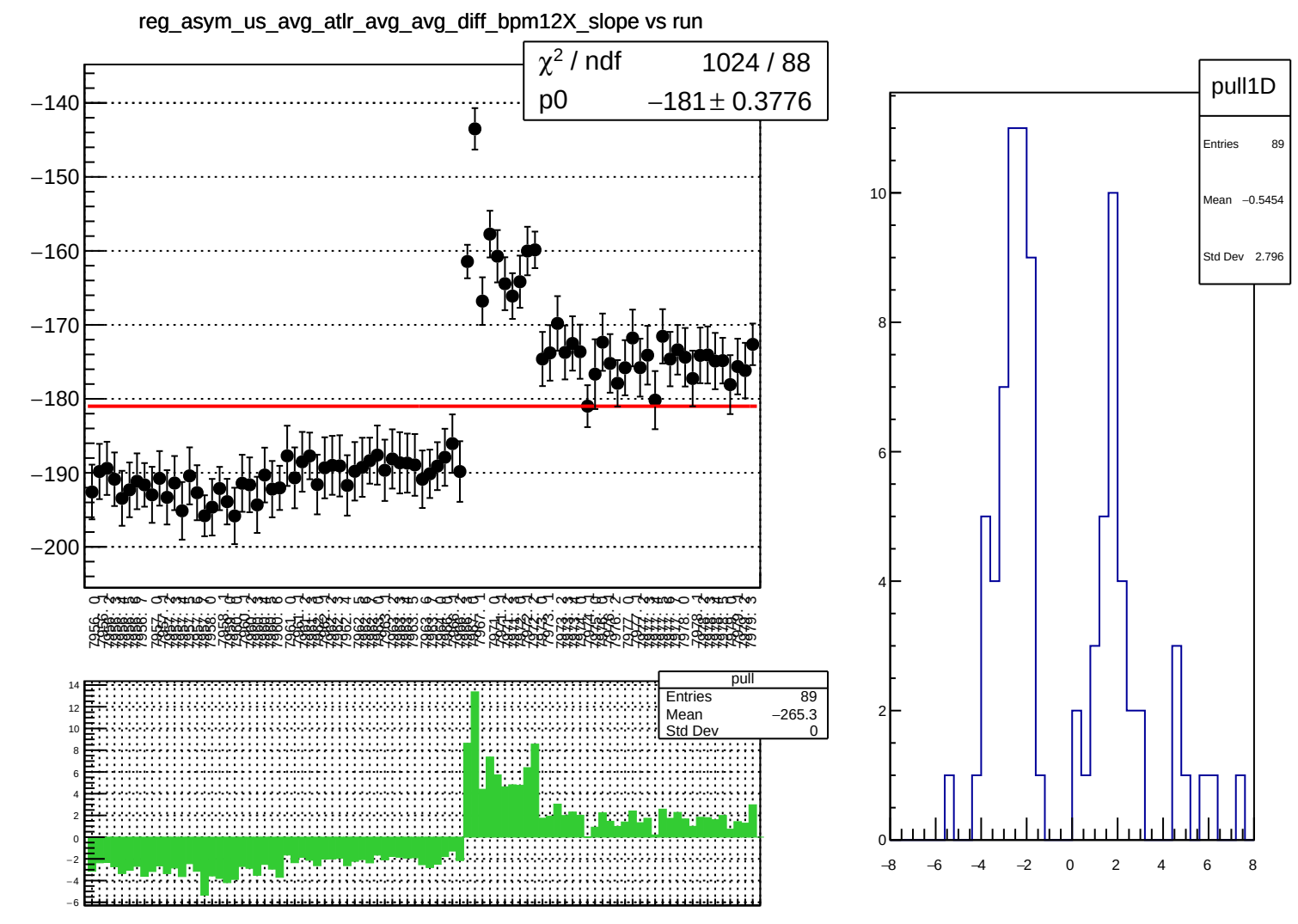

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 30.41 / 88
p0 −177.4 ± 11.01
pull
Entries 89
Mean 86.38
Std Dev 0
pull1D
Entries 89
Mean 0.0456
Std Dev 0.5828

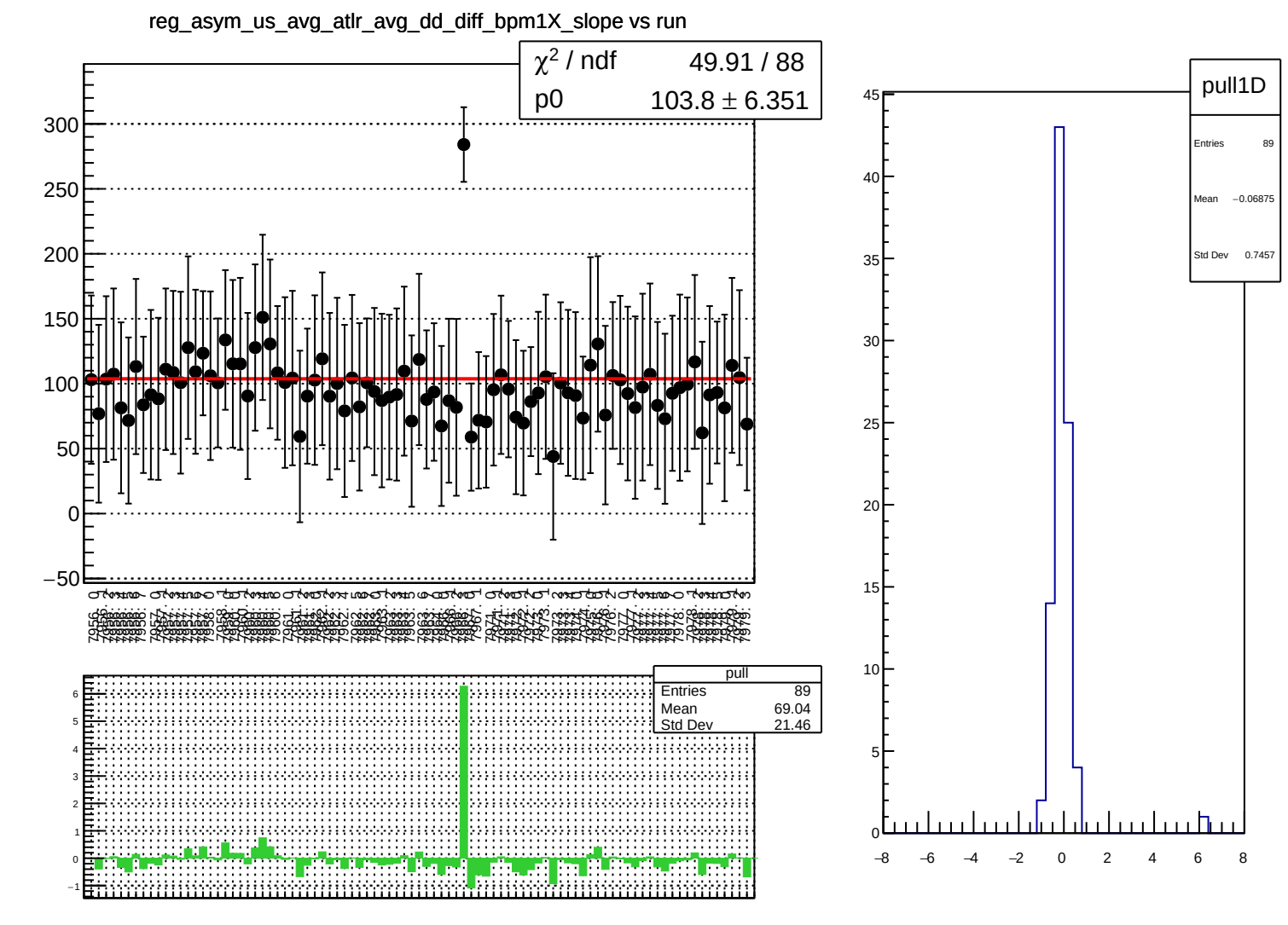

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.244 / 88
p0 58.94 ± 11.47
pull
Entries 89
Mean 4079
Std Dev 0
pull1D
Entries 89
Mean −3.849e−05
Std Dev 0.2427

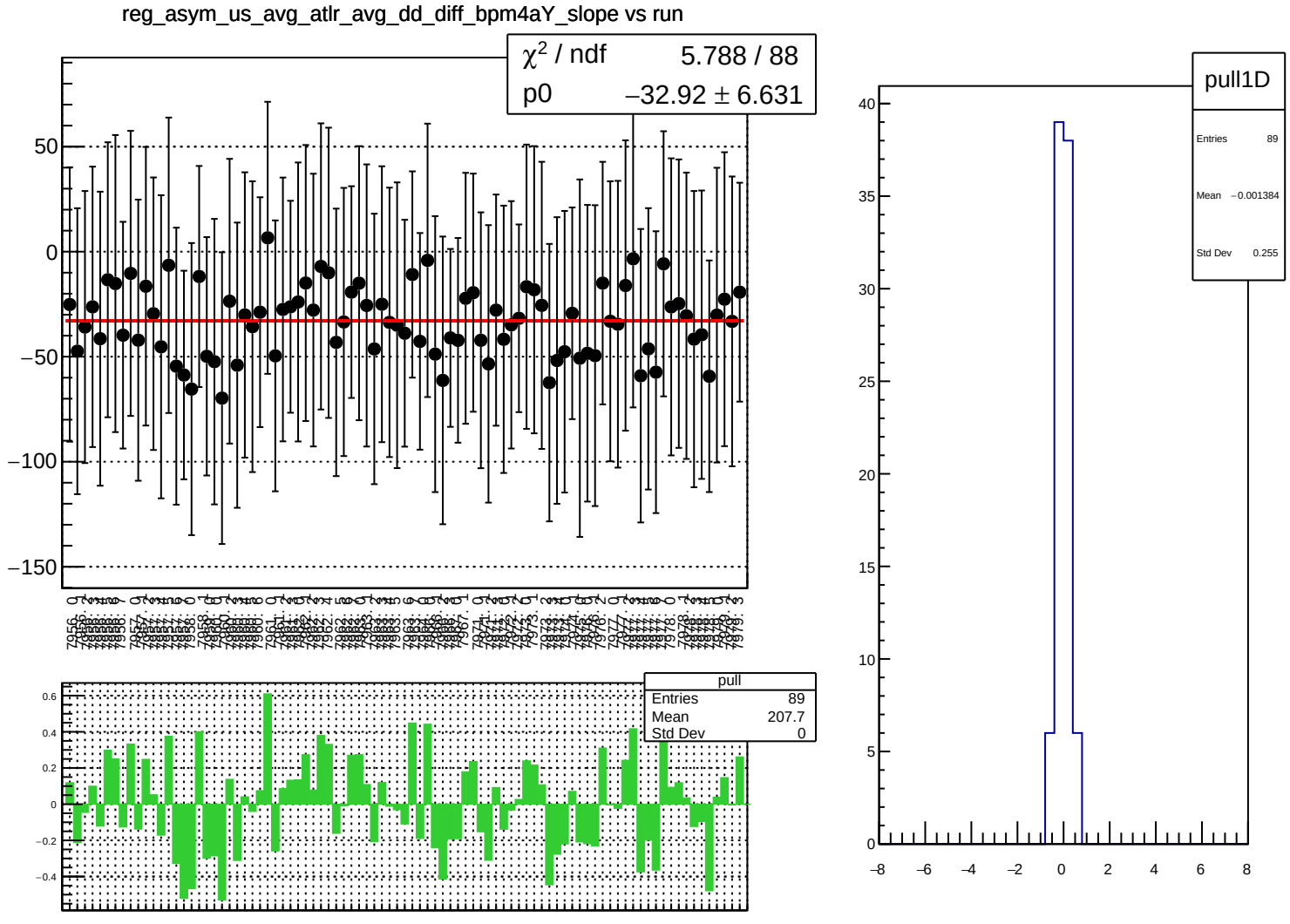

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.65 / 88
p0 166.1 ± 9.761
400
300
200
100
0
pull
Entries 89
Mean 86.93
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 89
Mean −0.04407
Std Dev 0.5755
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

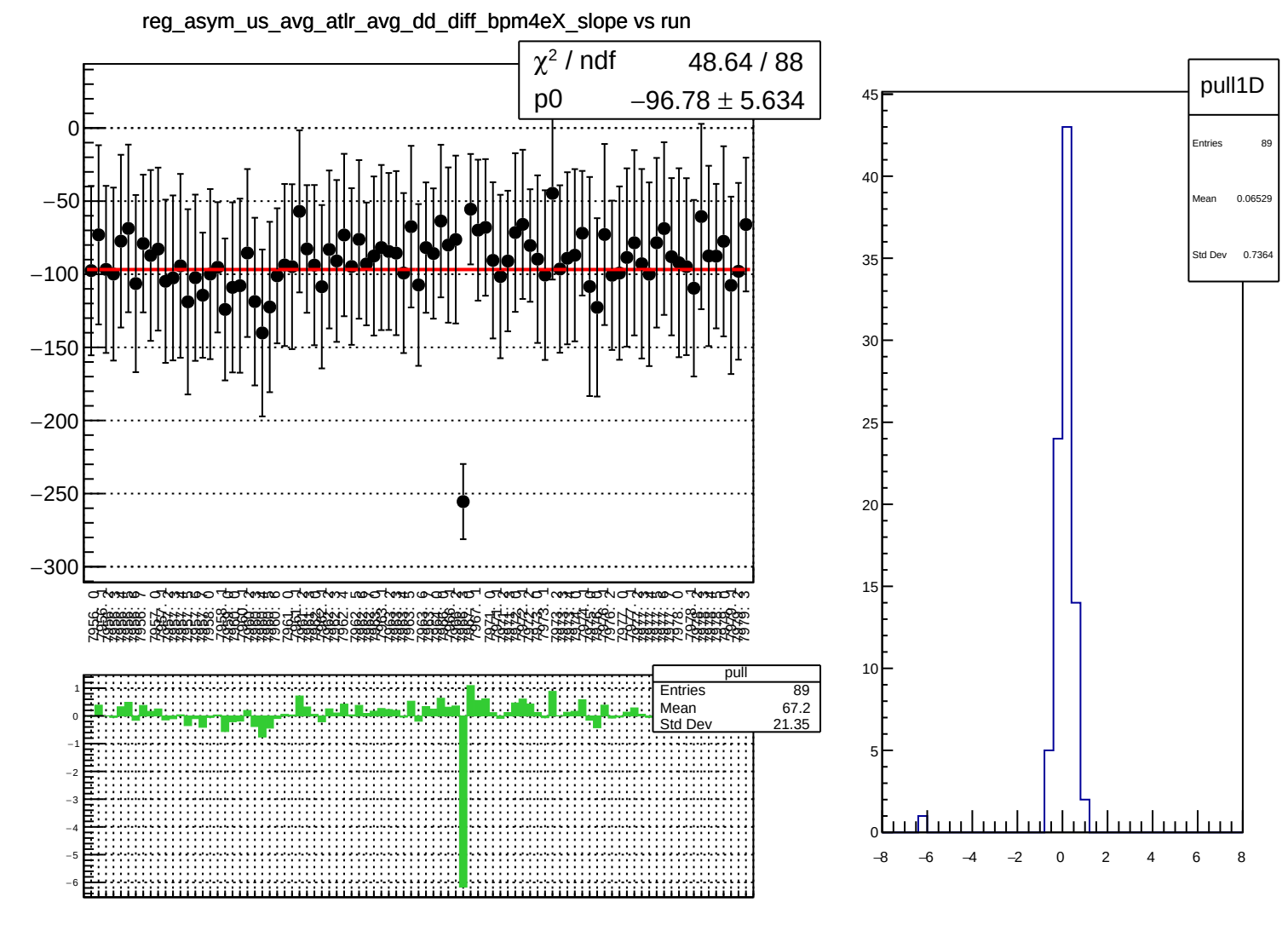

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.402 / 88
p0 12.15 ± 13.13
pull
Entries 89
Mean −313.3
Std Dev 0

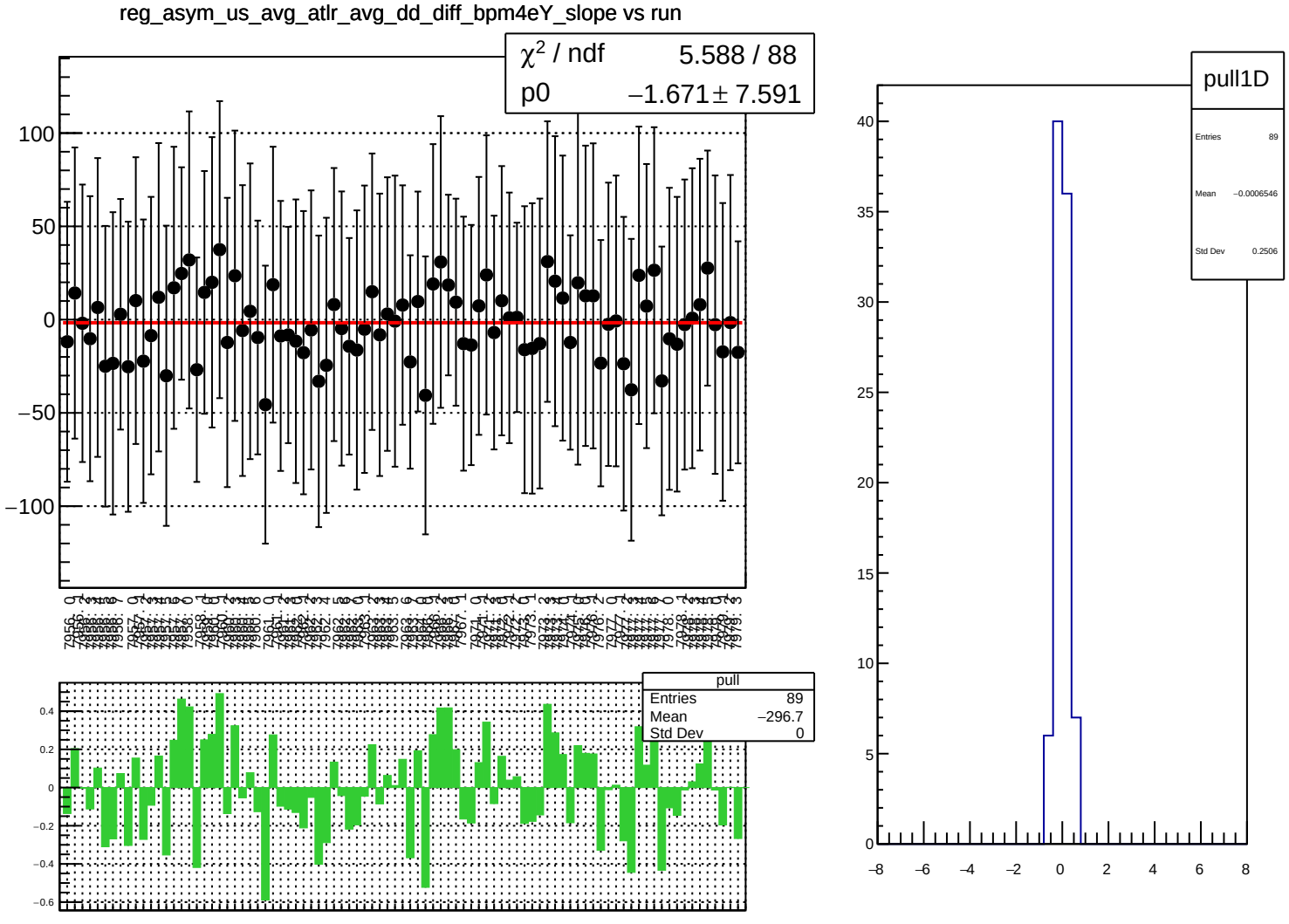

pull1D
Entries 89
Mean 0.00203
Std Dev 0.2464

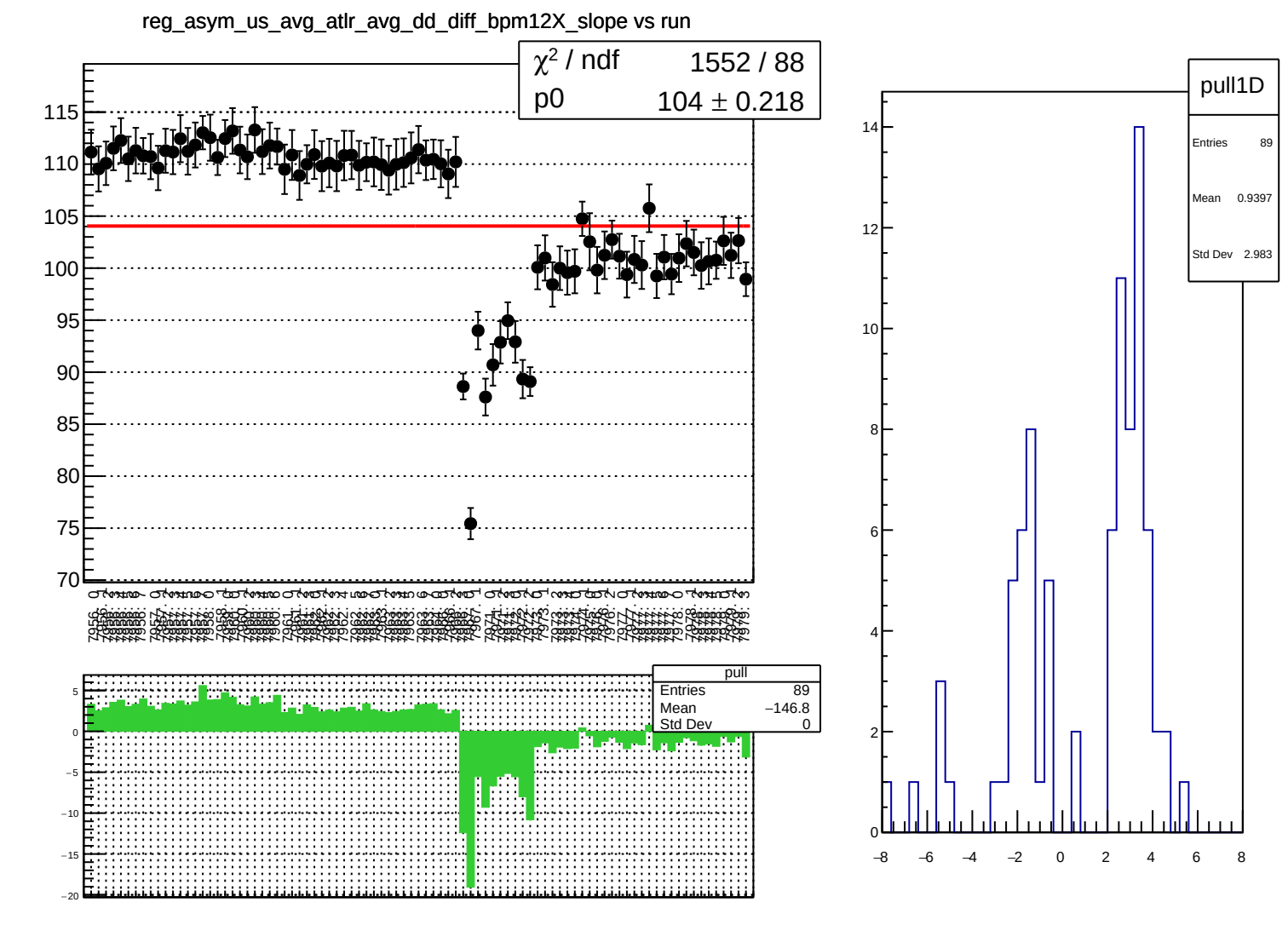

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1024 / 88
p0 −181 ± 0.3776
pull
Entries 89
Mean −265.3
Std Dev 0
pull1D
Entries 89
Mean −0.5454
Std Dev 2.796

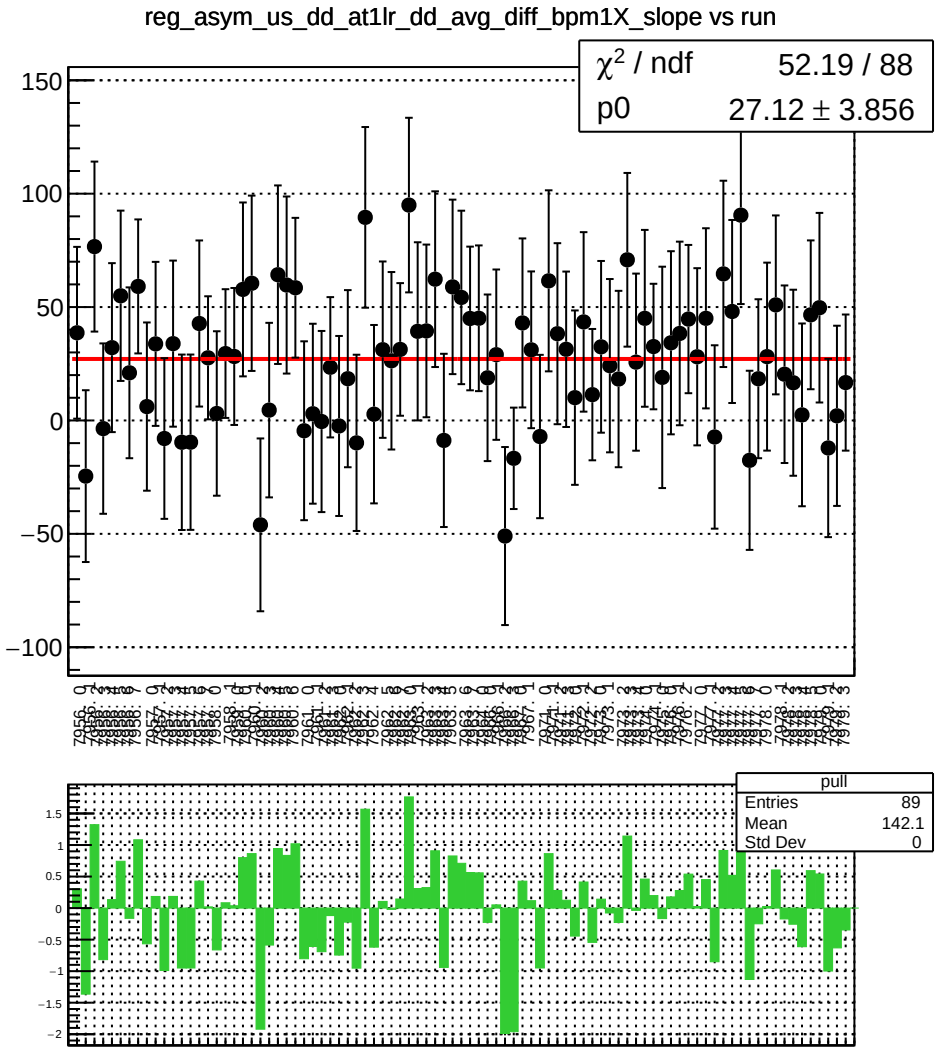

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 49.91 / 88
p0 103.8 ± 6.351
pull
Entries 89
Mean 69.04
Std Dev 21.46
pull1D
Entries 89
Mean −0.06875
Std Dev 0.7457

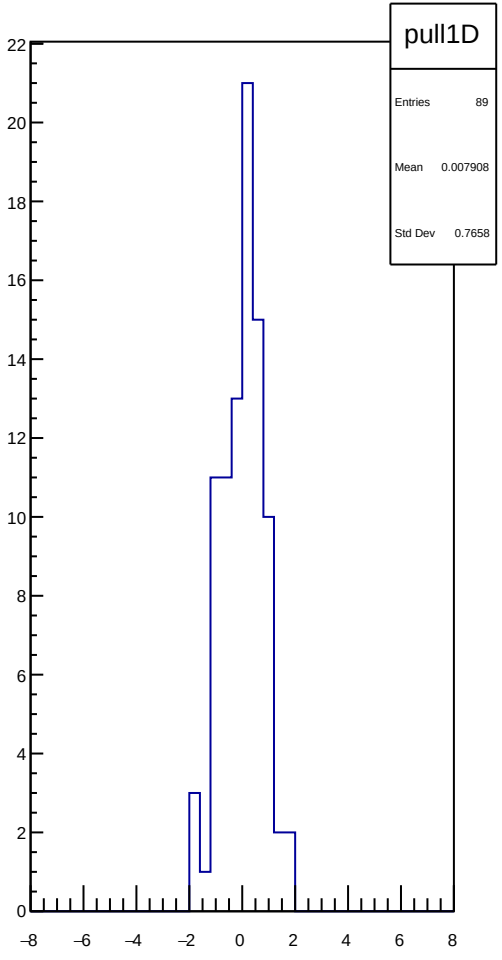

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.788 / 88
p0 −32.92 ± 6.631
50
0
−50
−100
−150
pull
Entries 89
Mean 207.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 89
Mean −0.001384
Std Dev 0.255
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

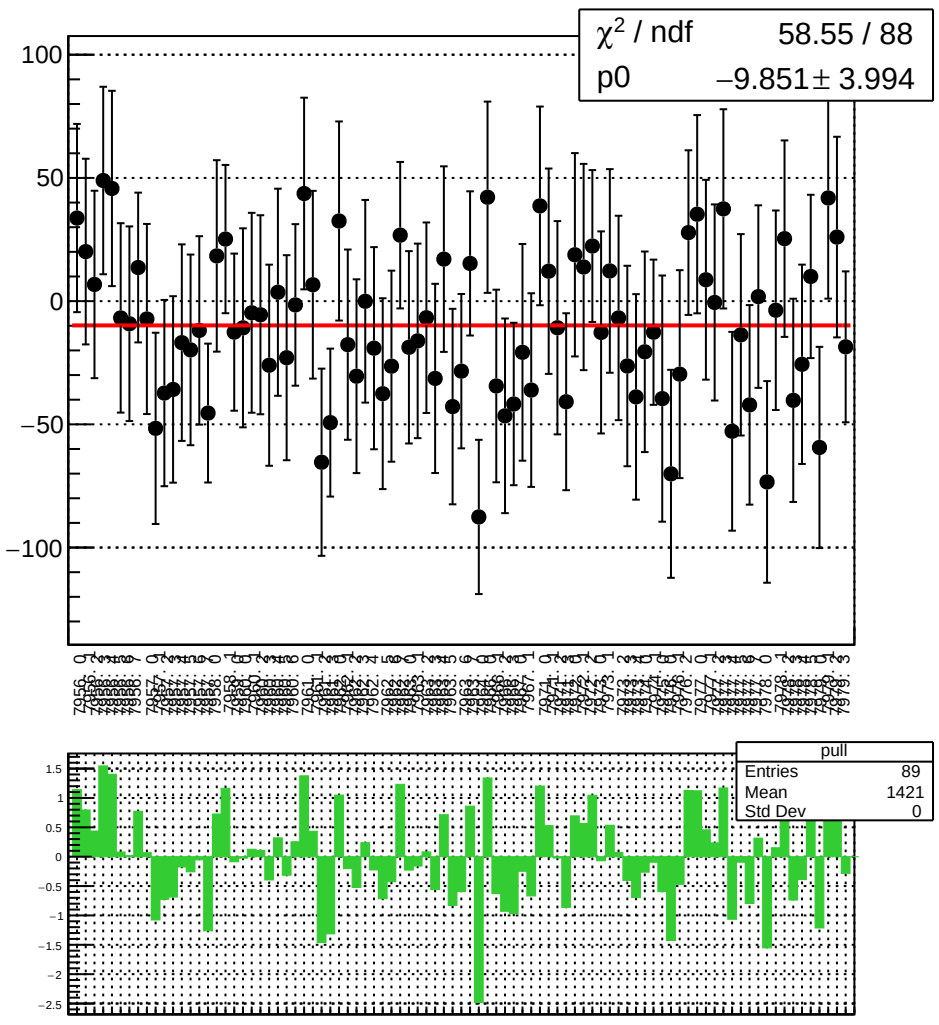

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.64 / 88
p0 −96.78 ± 5.634
pull
Entries 89
Mean 67.2
Std Dev 21.35
pull1D
Entries 89
Mean 0.06529
Std Dev 0.7364

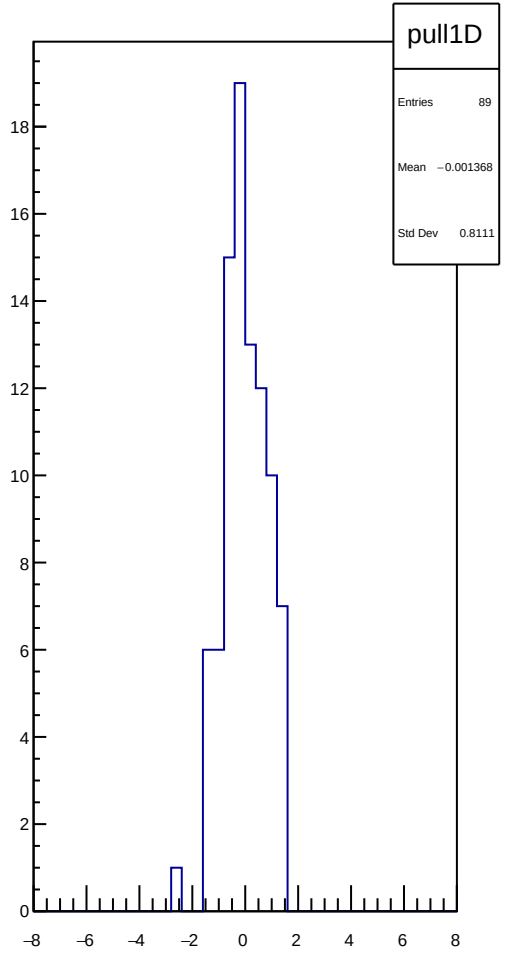

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.588 / 88
p0 −1.671 ± 7.591
100
50
0
−50
−100
pull
Entries 89
Mean −296.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −0.0006546
Std Dev 0.2506
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

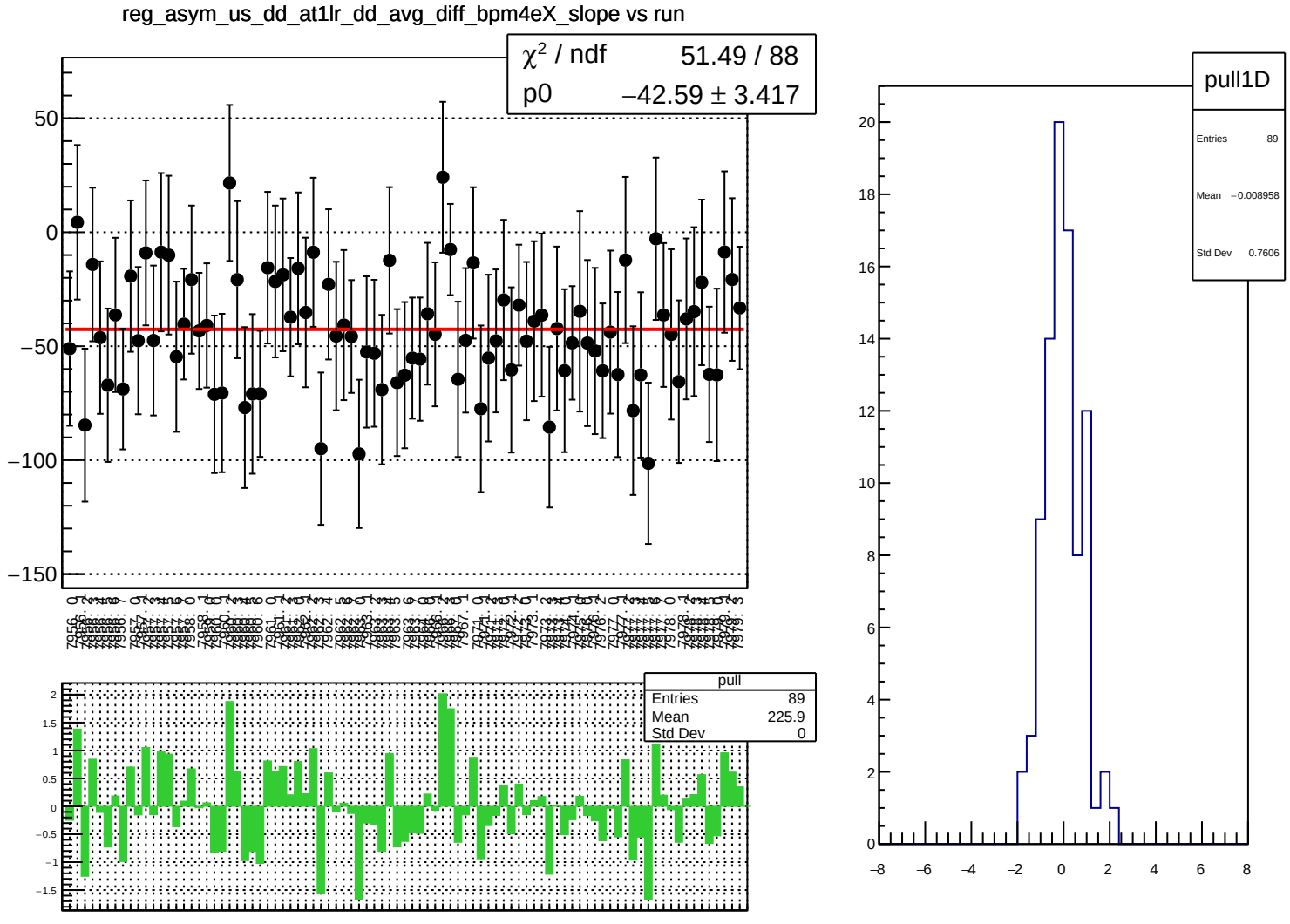

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1552 / 88
p0 104 ± 0.218
pull
Entries 89
Mean −146.8
Std Dev 0
pull1D
Entries 89
Mean 0.9397
Std Dev 2.983

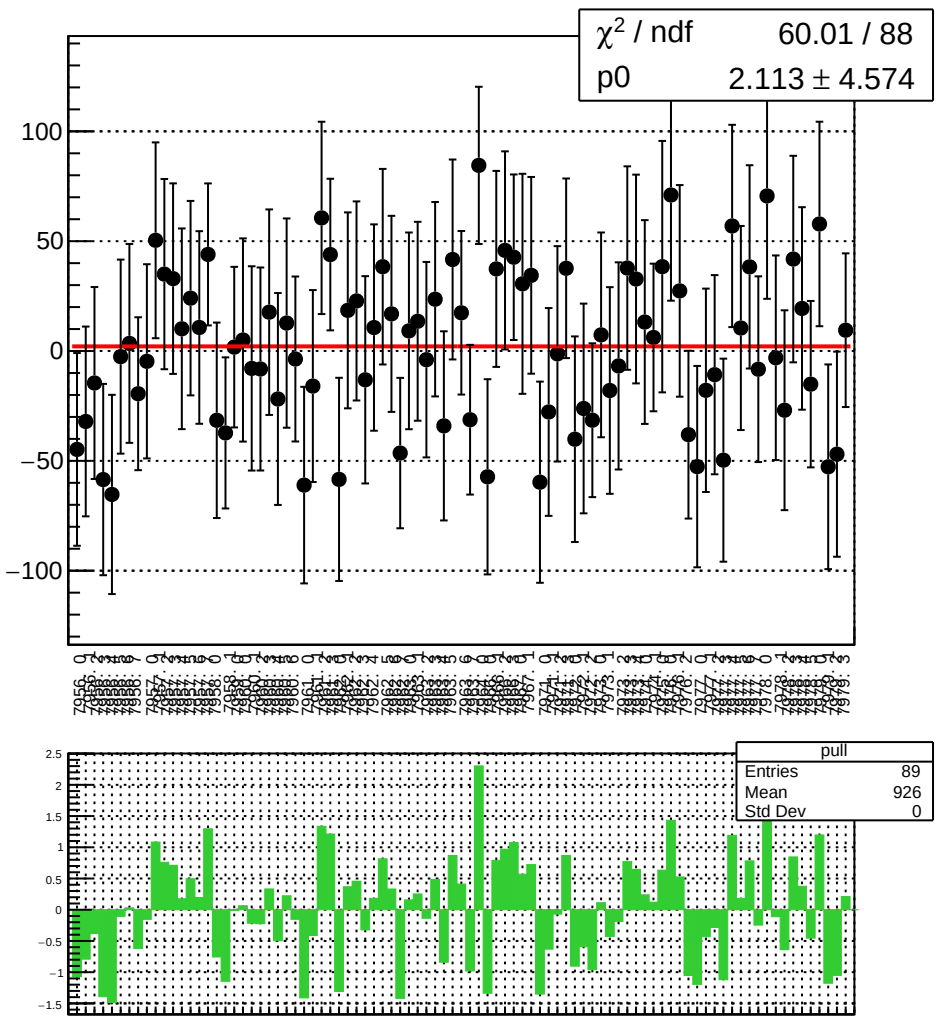

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 52.19 / 88
p0 27.12 ± 3.856
pull
Entries 89
Mean 142.1
Std Dev 0

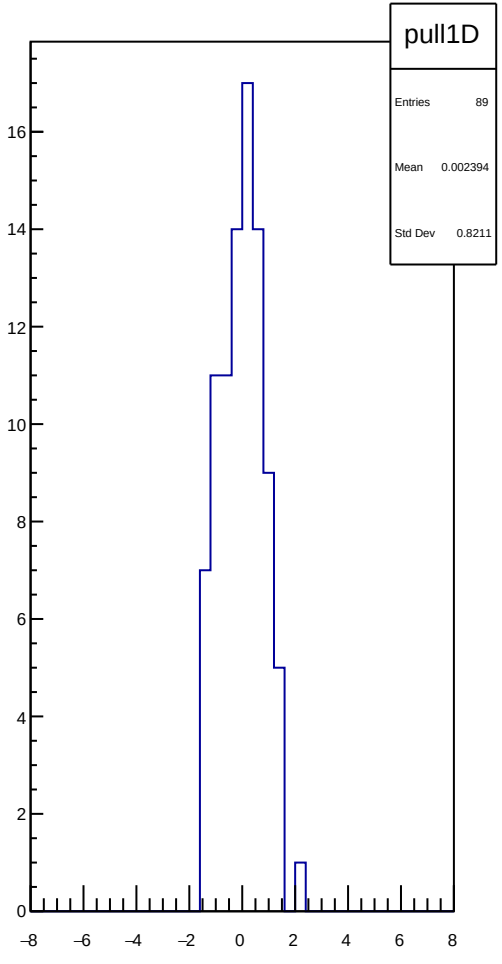

pull1D
Entries 89
Mean 0.007908
Std Dev 0.7658

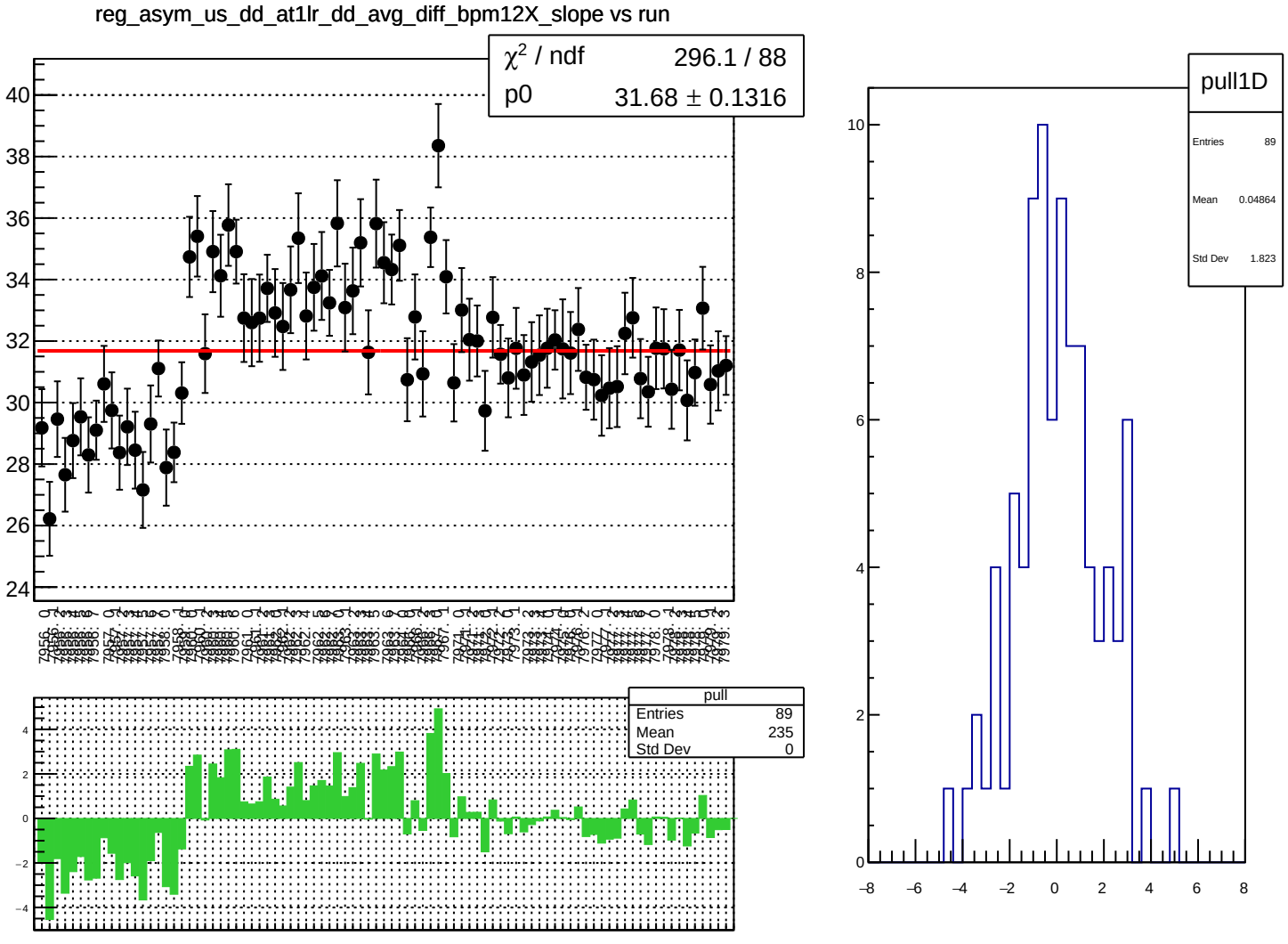

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 58.55 / 88
p0 −9.851 ± 3.994
100
50
0
−50
−100
pull
Entries 89
Mean 1421
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

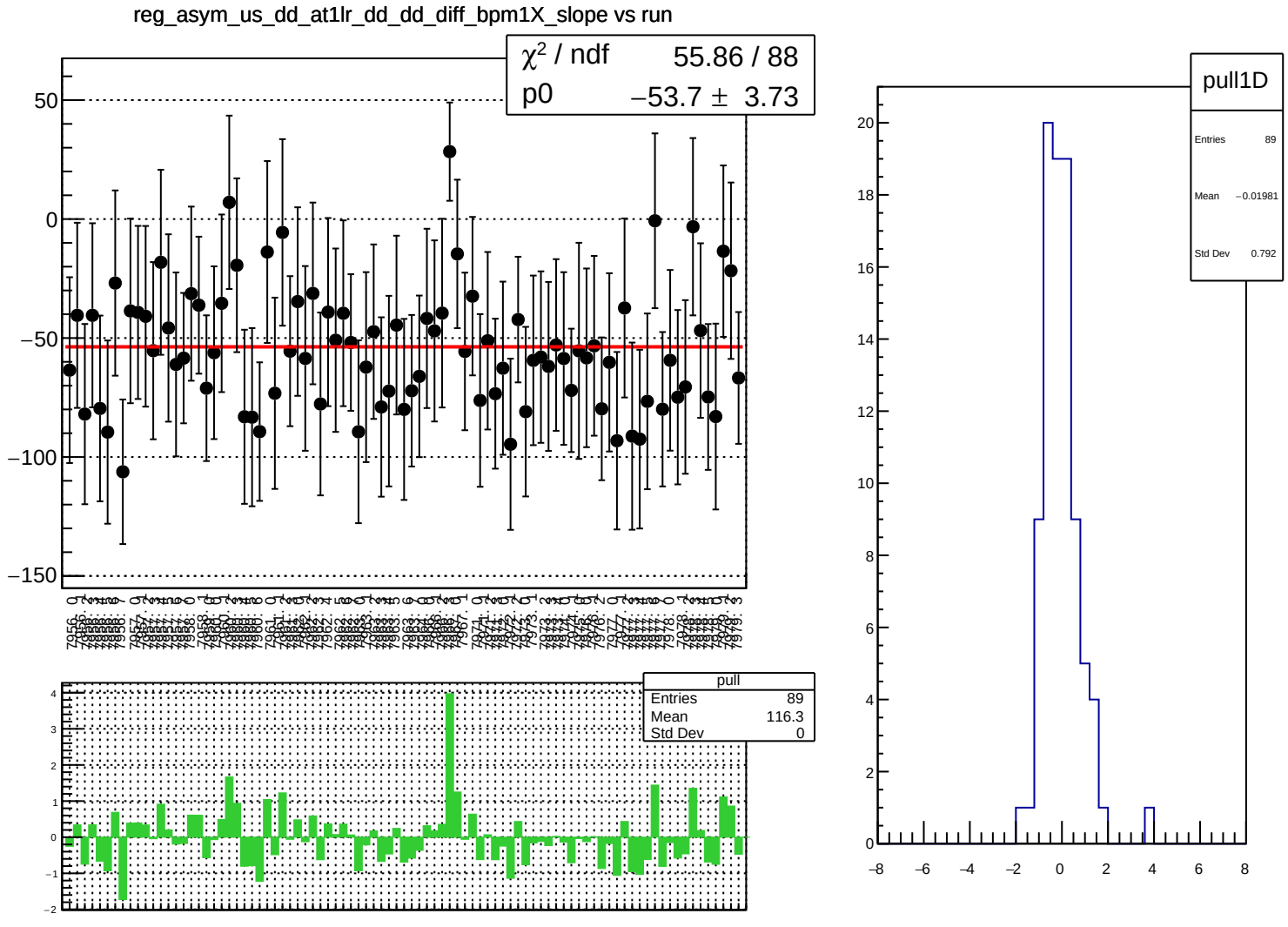

pull1D
Entries 89
Mean −0.001368
Std Dev 0.8111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

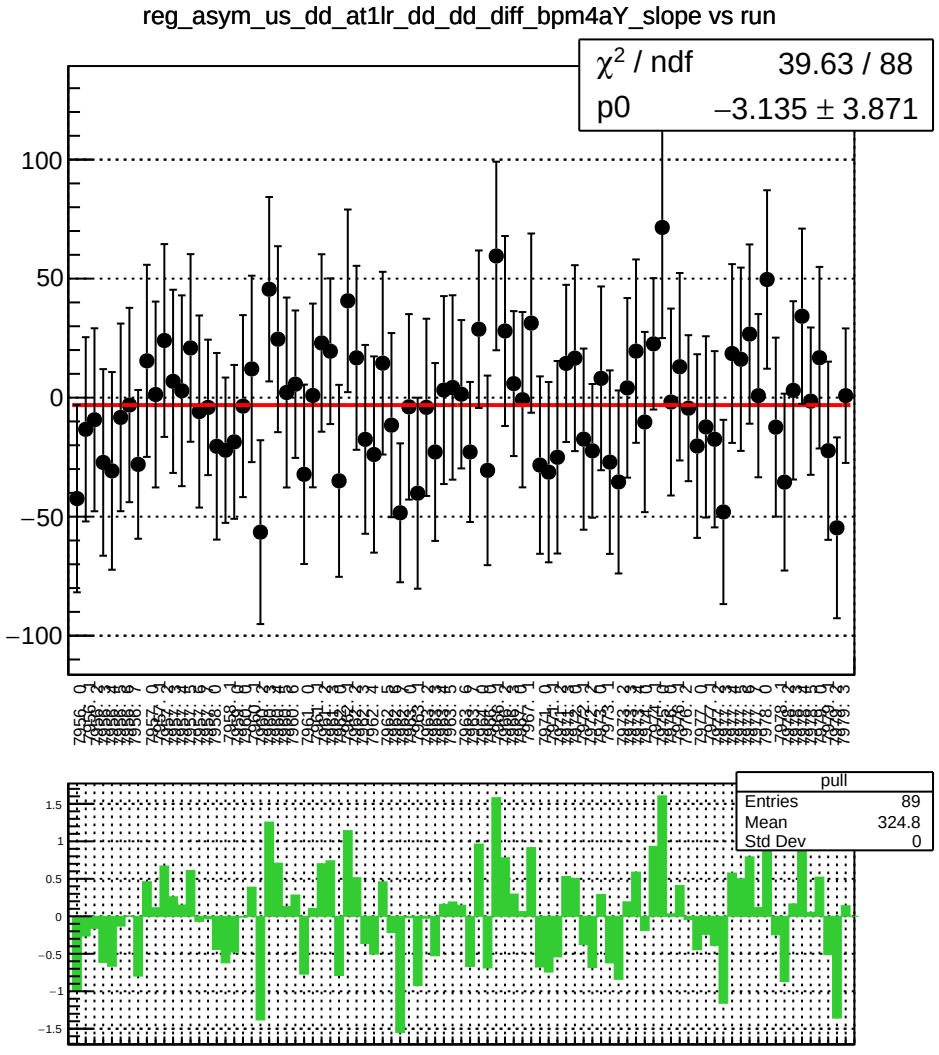

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.49 / 88
p0 −42.59 ± 3.417
50
0
−50
−100
−150
pull
Entries 89
Mean 225.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.008958
Std Dev 0.7606
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

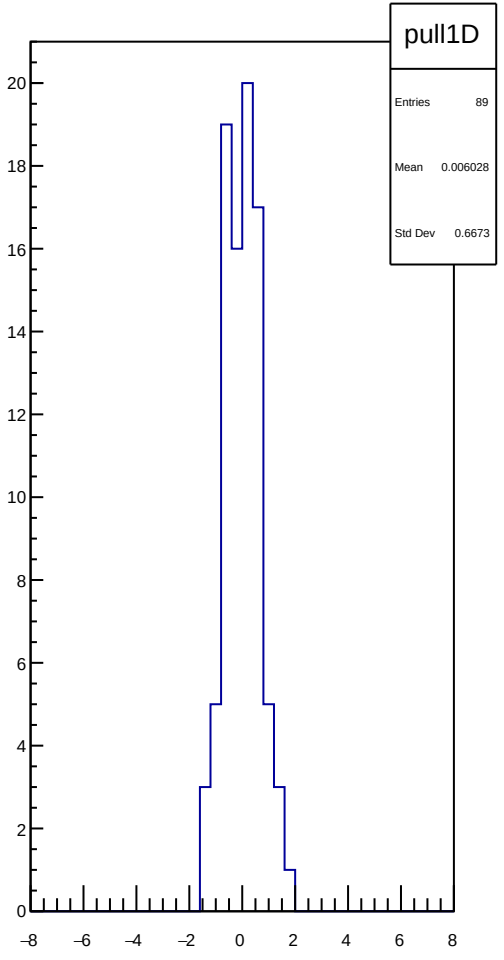

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 60.01 / 88
p0 2.113 ± 4.574
pull
Entries 89
Mean 926
Std Dev 0

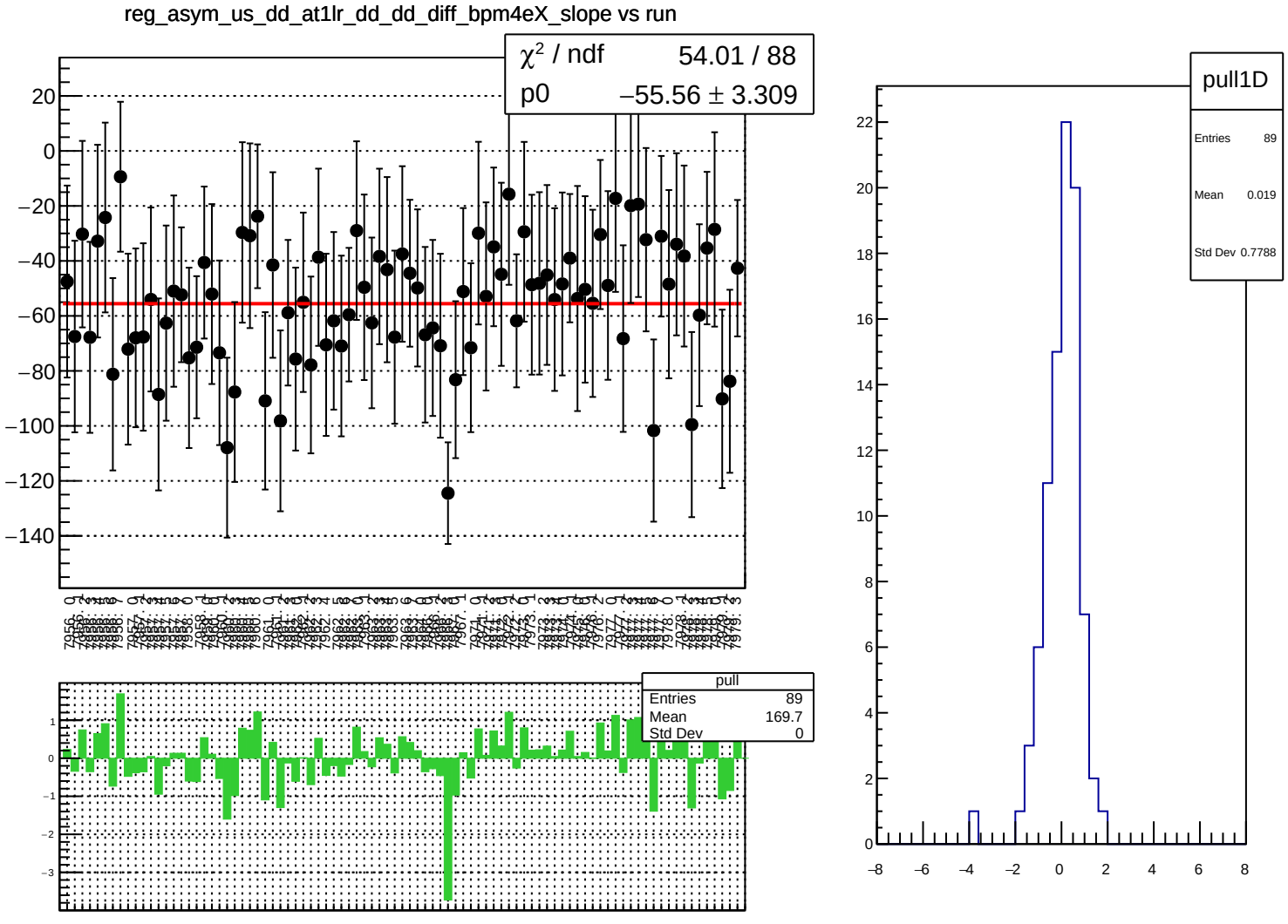

pull1D
Entries 89
Mean 0.002394
Std Dev 0.8211

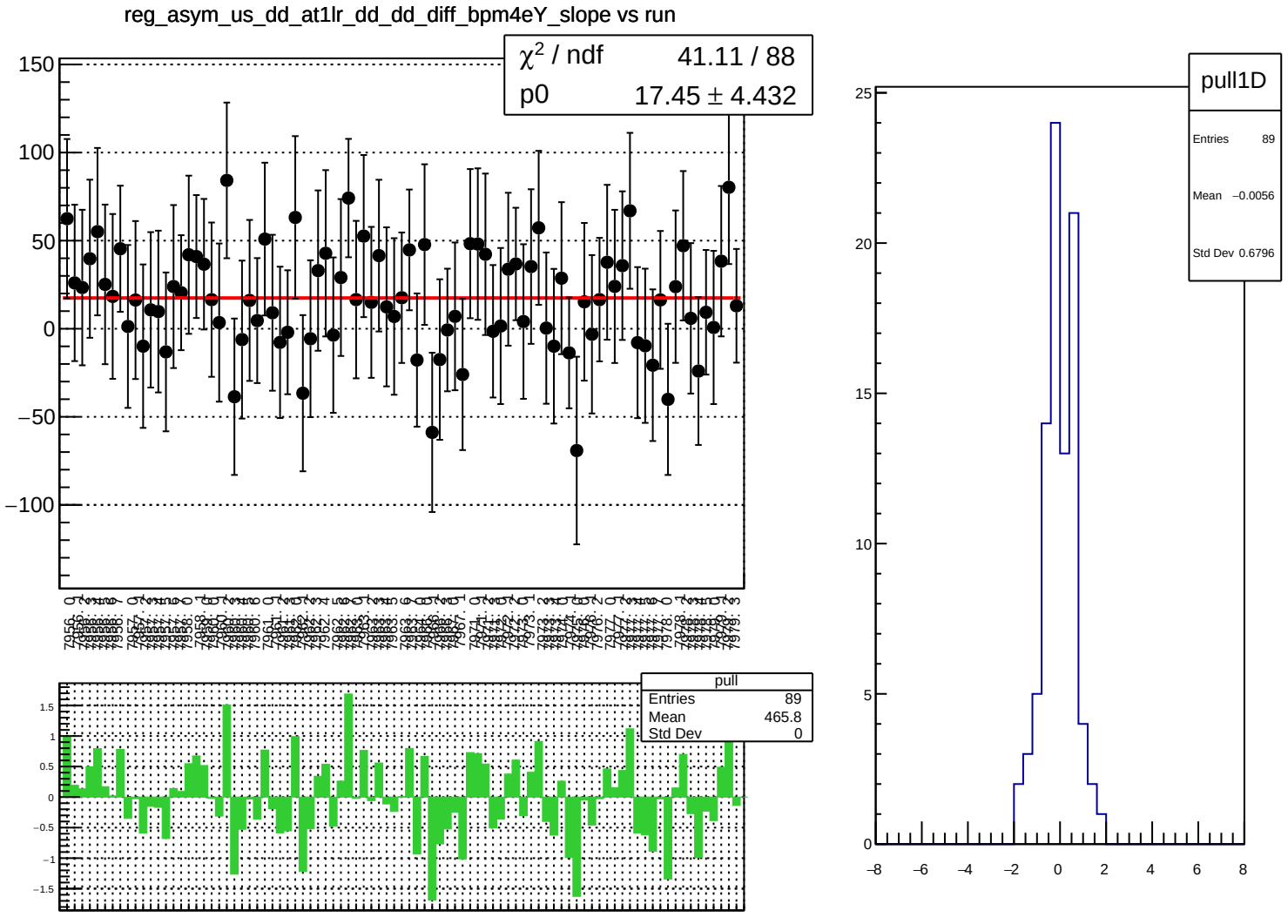

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 296.1 / 88
p0 31.68 ± 0.1316
pull
Entries 89
Mean 235
Std Dev 0
pull1D
Entries 89
Mean 0.04864
Std Dev 1.823

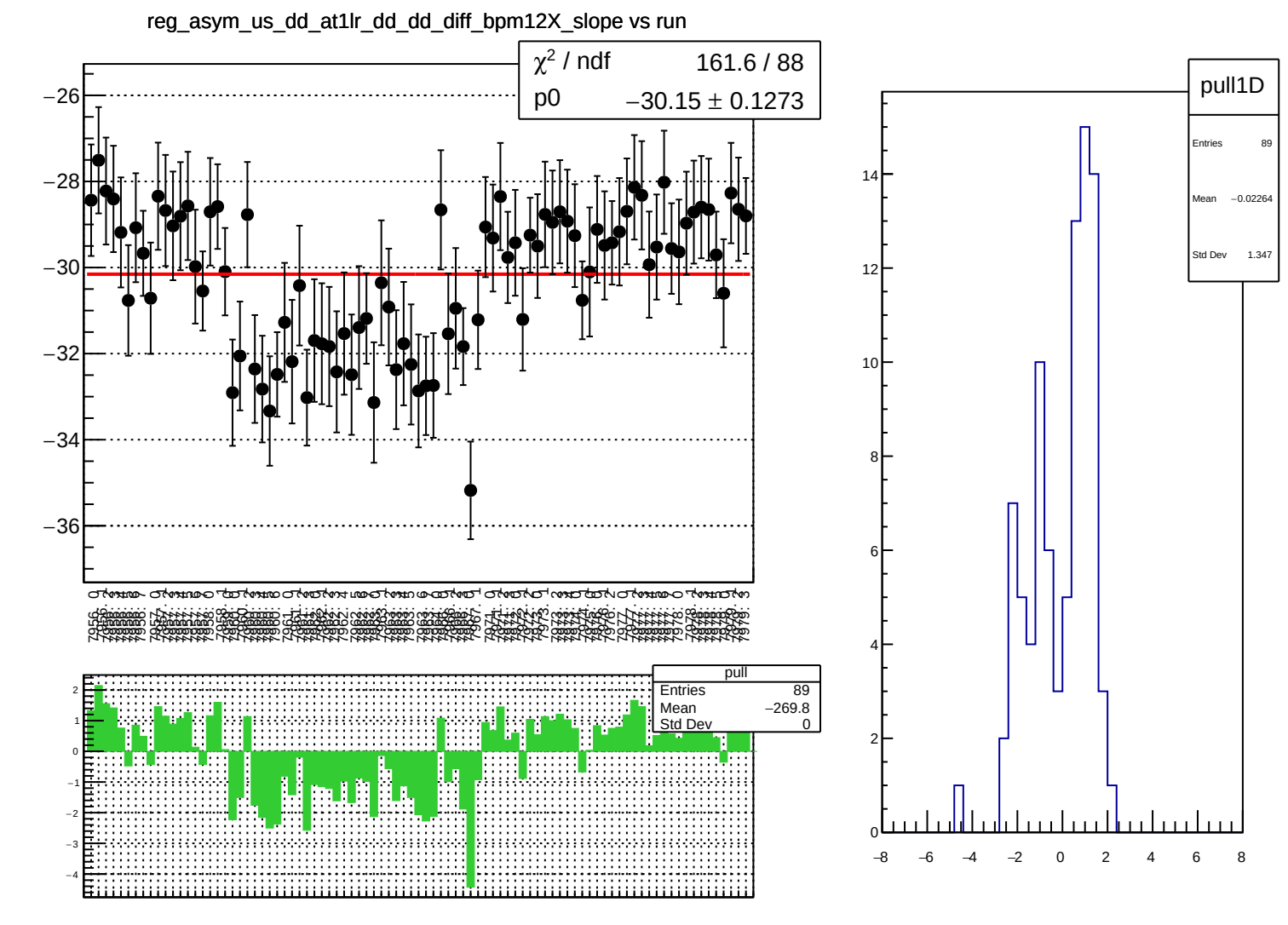

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 55.86 / 88
p0 −53.7 ± 3.73
50
0
−50
−100
−150
pull
Entries 89
Mean 116.3
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01981
Std Dev 0.792
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

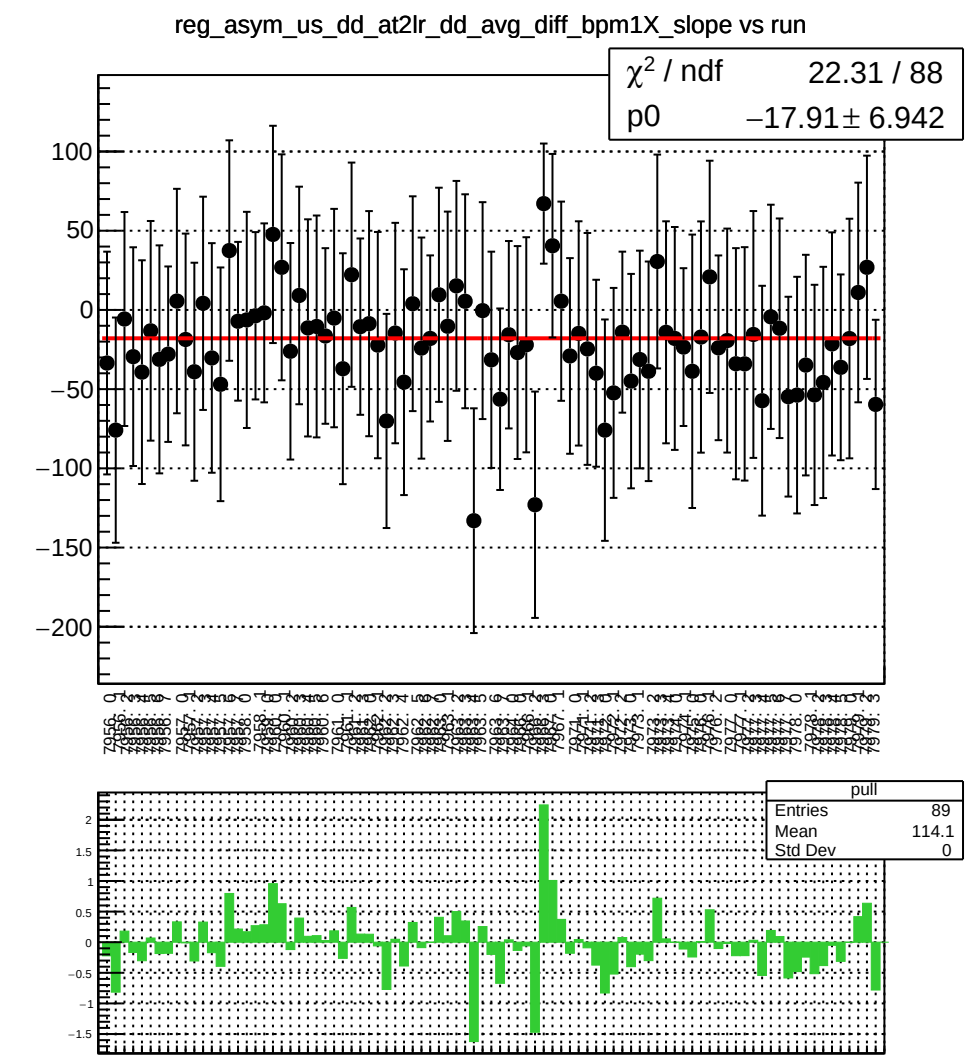

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.63 / 88
p0 −3.135 ± 3.871
100
50
0
−50
−100
pull
Entries 89
Mean 324.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

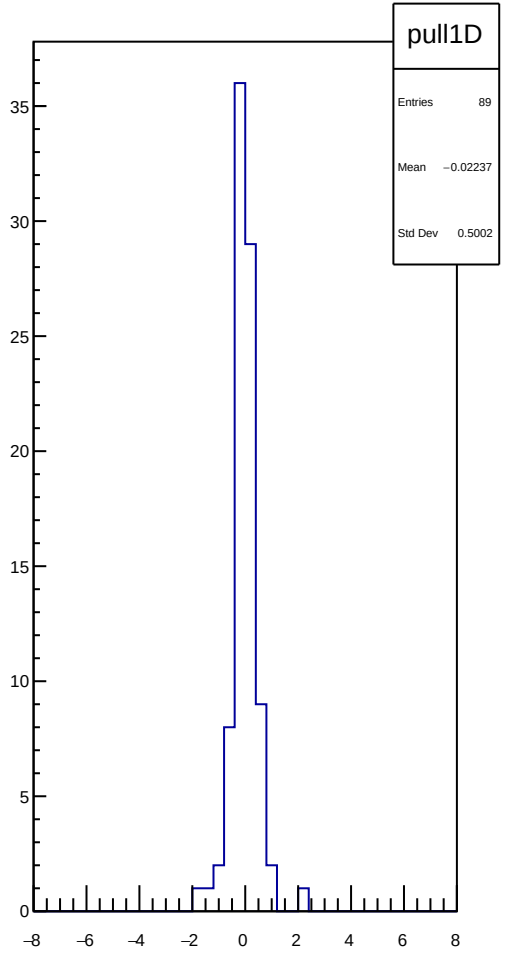

pull1D
Entries 89
Mean 0.006028
Std Dev 0.6673
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

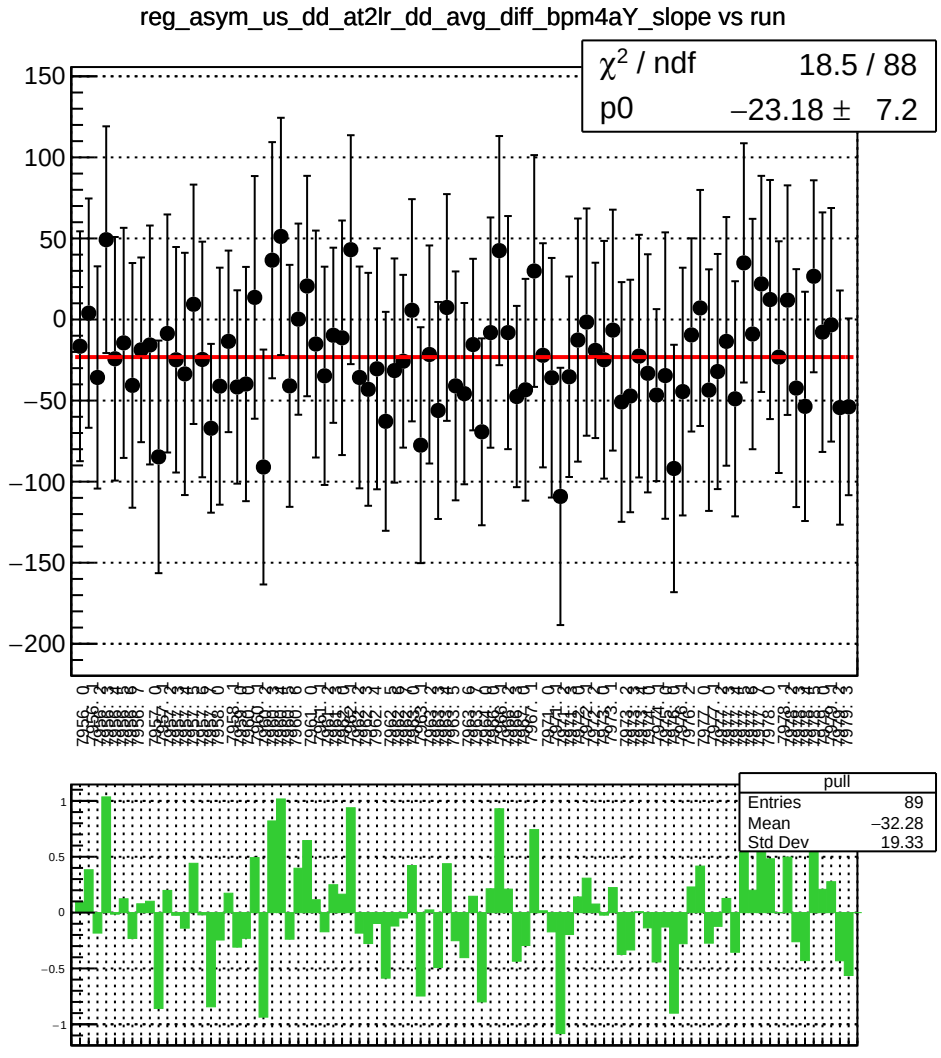

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.01 / 88
p0 −55.56 ± 3.309
pull
Entries 89
Mean 169.7
Std Dev 0
pull1D
Entries 89
Mean 0.019
Std Dev 0.7788

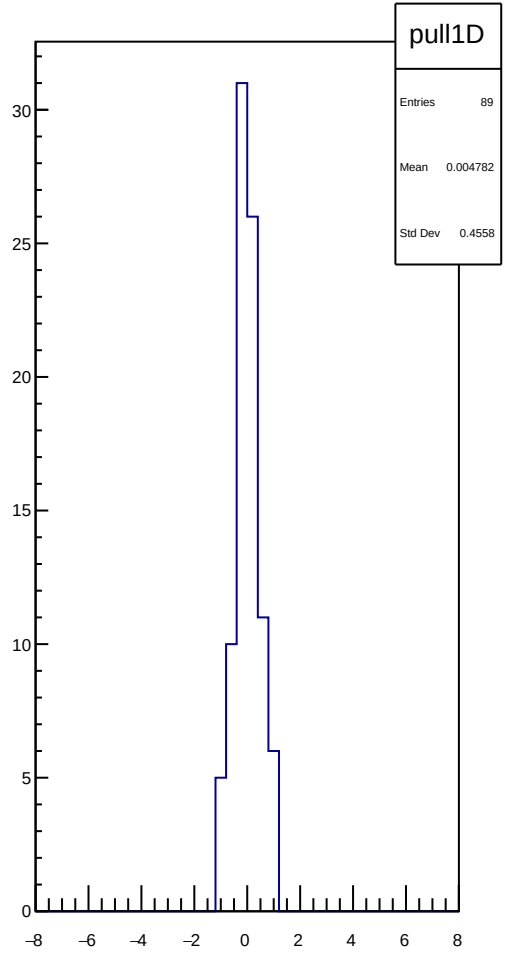

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 41.11 / 88
p0 17.45 ± 4.432
150
100
50
0
−50
−100
pull
Entries 89
Mean 465.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.0056
Std Dev 0.6796
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

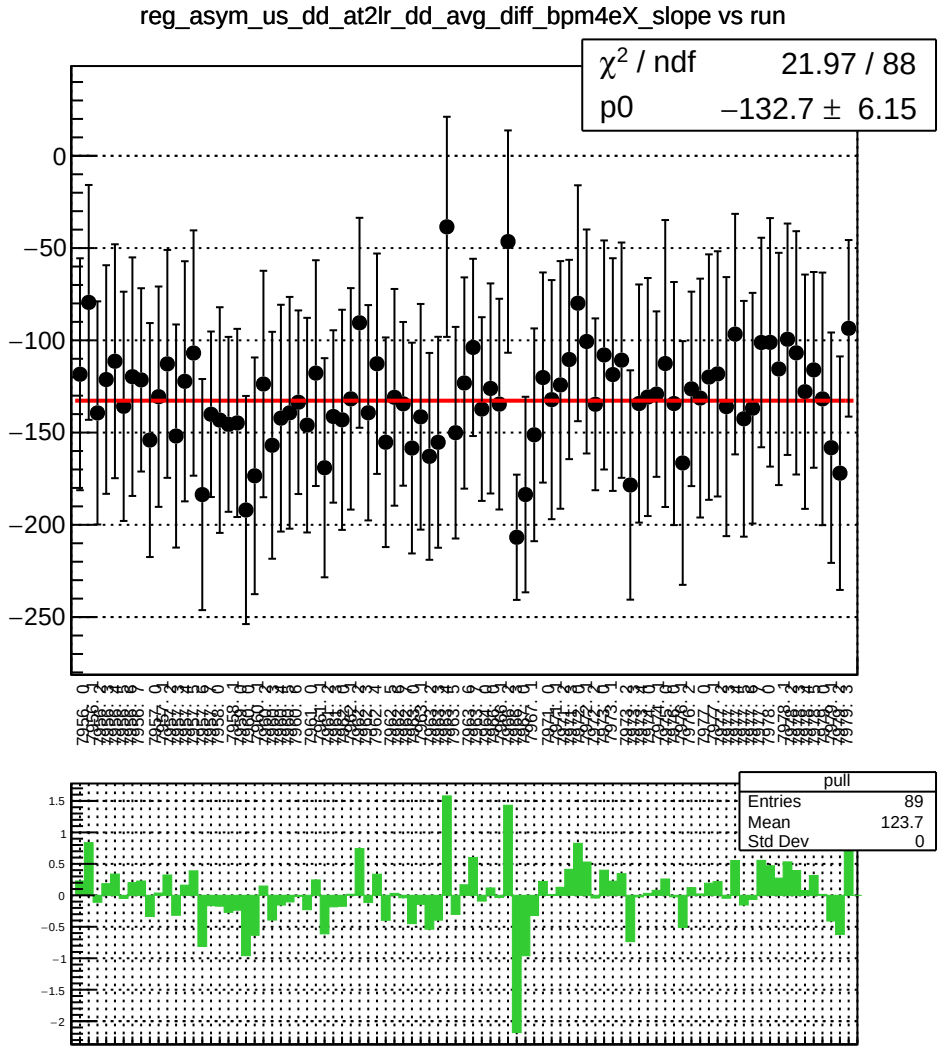

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 161.6 / 88
p0 −30.15 ± 0.1273
−26
−28
−30
−32
−34
−36
pull
Entries 89
Mean −269.8
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean −0.02264
Std Dev 1.347
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

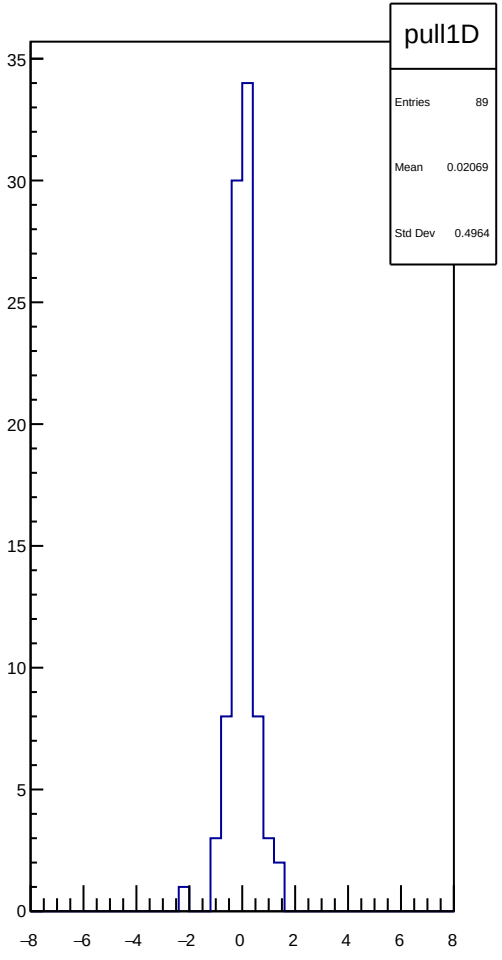

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 22.31 / 88
p0 −17.91± 6.942
pull
Entries 89
Mean 114.1
Std Dev 0

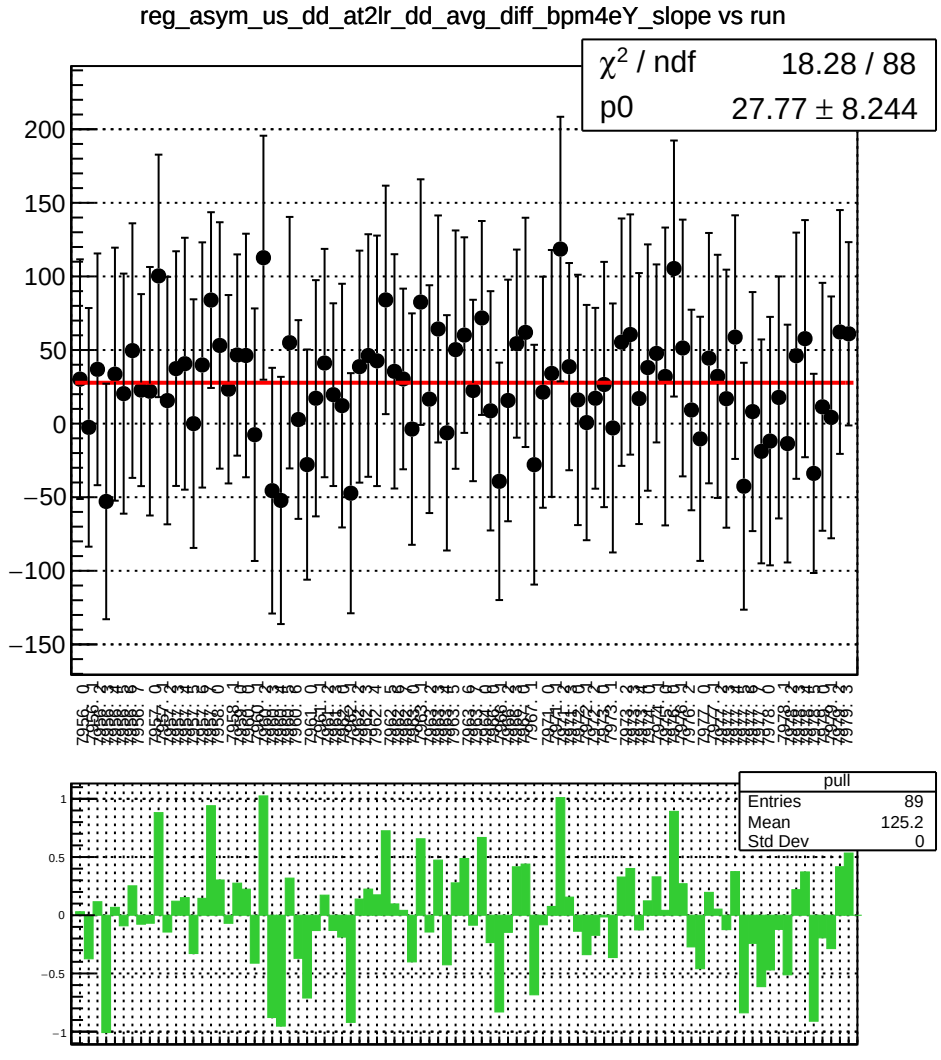

pull1D
Entries 89
Mean −0.02237
Std Dev 0.5002

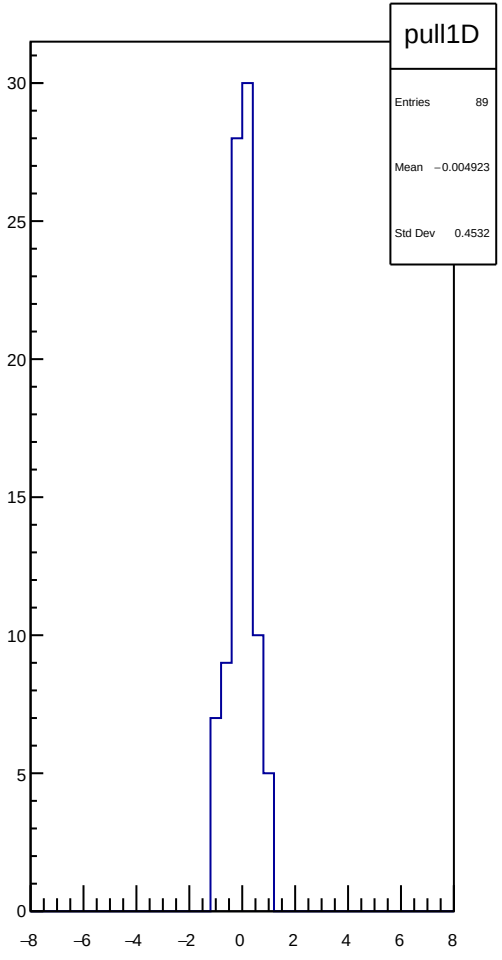

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.5 / 88
p0 −23.18 ± 7.2
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −32.28
Std Dev 19.33
1
0.5
0
−0.5
−1

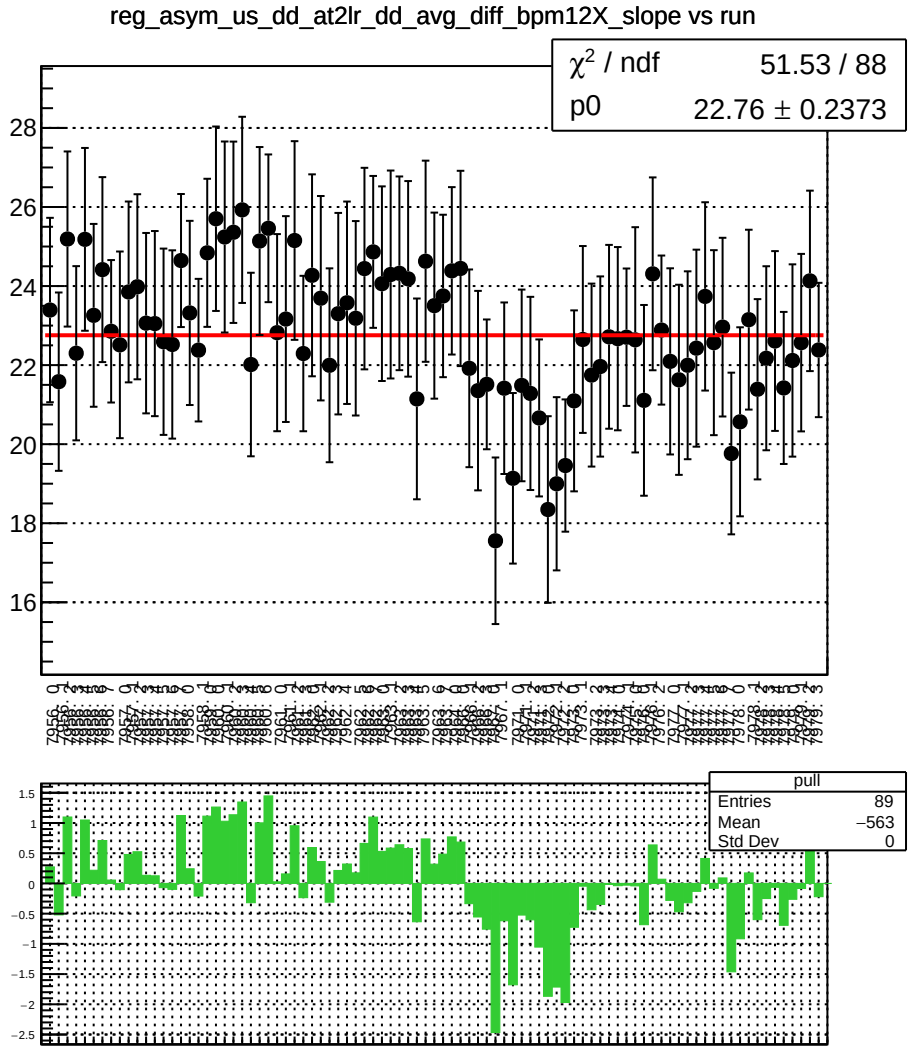

pull1D
Entries 89
Mean 0.004782
Std Dev 0.4558
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

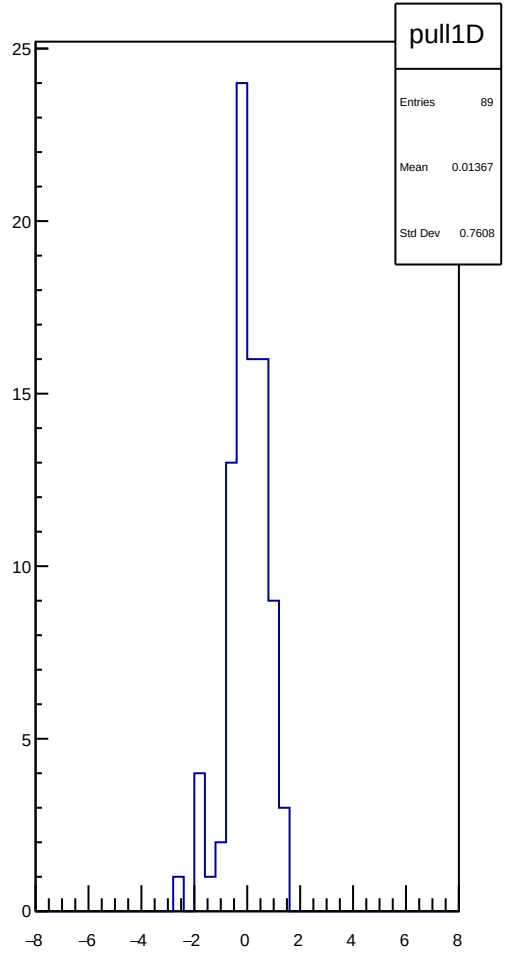

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.97 / 88
p0 −132.7 ± 6.15
pull
Entries 89
Mean 123.7
Std Dev 0

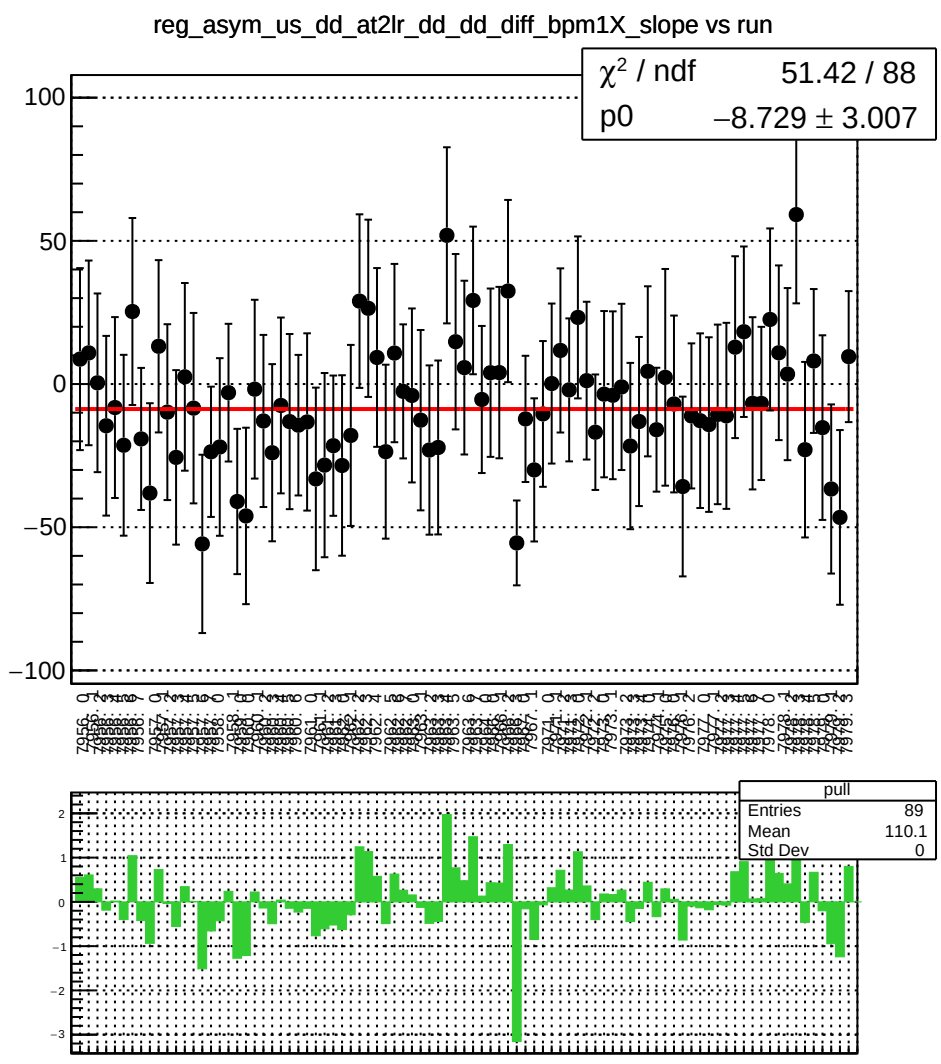

pull1D
Entries 89
Mean 0.02069
Std Dev 0.4964

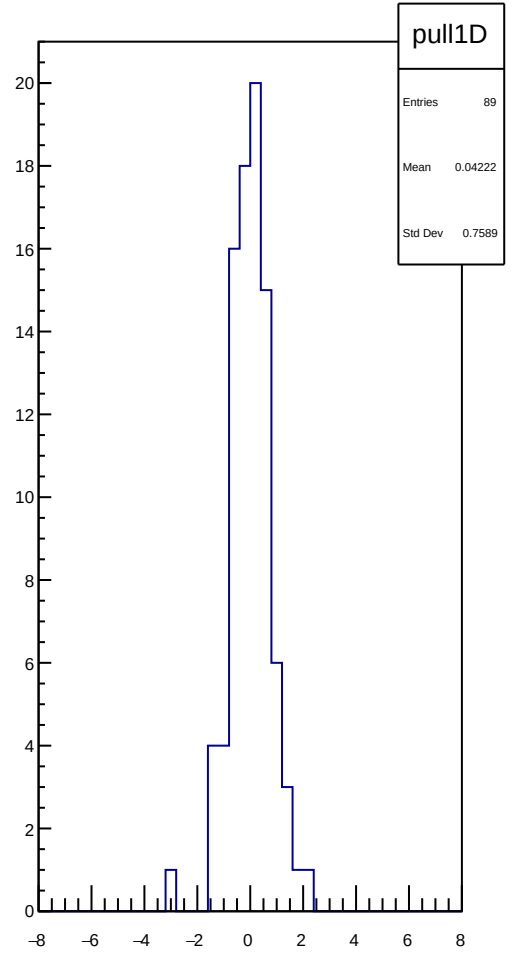

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.28 / 88
p0 27.77 ± 8.244
pull
Entries 89
Mean 125.2
Std Dev 0

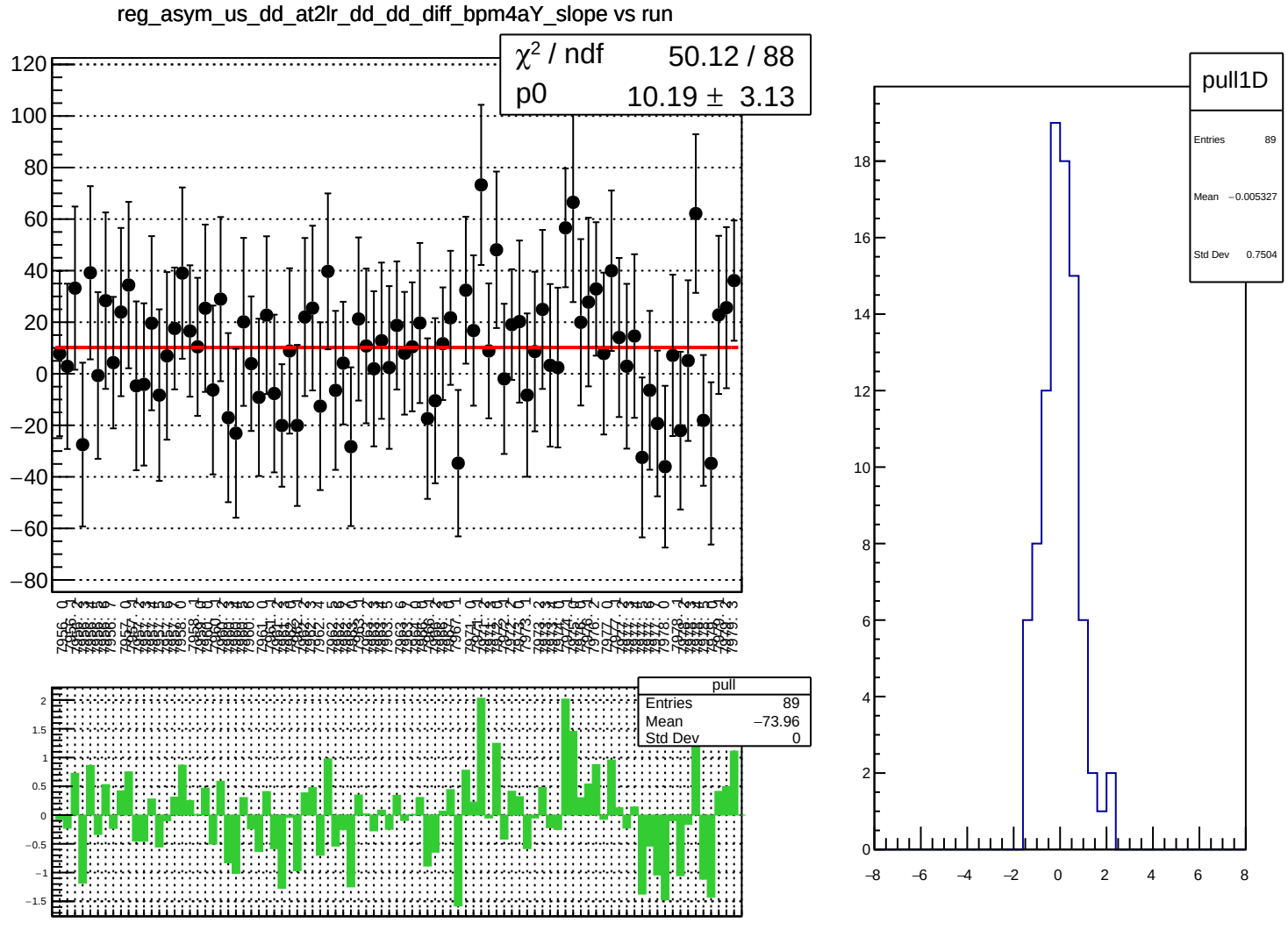

pull1D
Entries 89
Mean −0.004923
Std Dev 0.4532

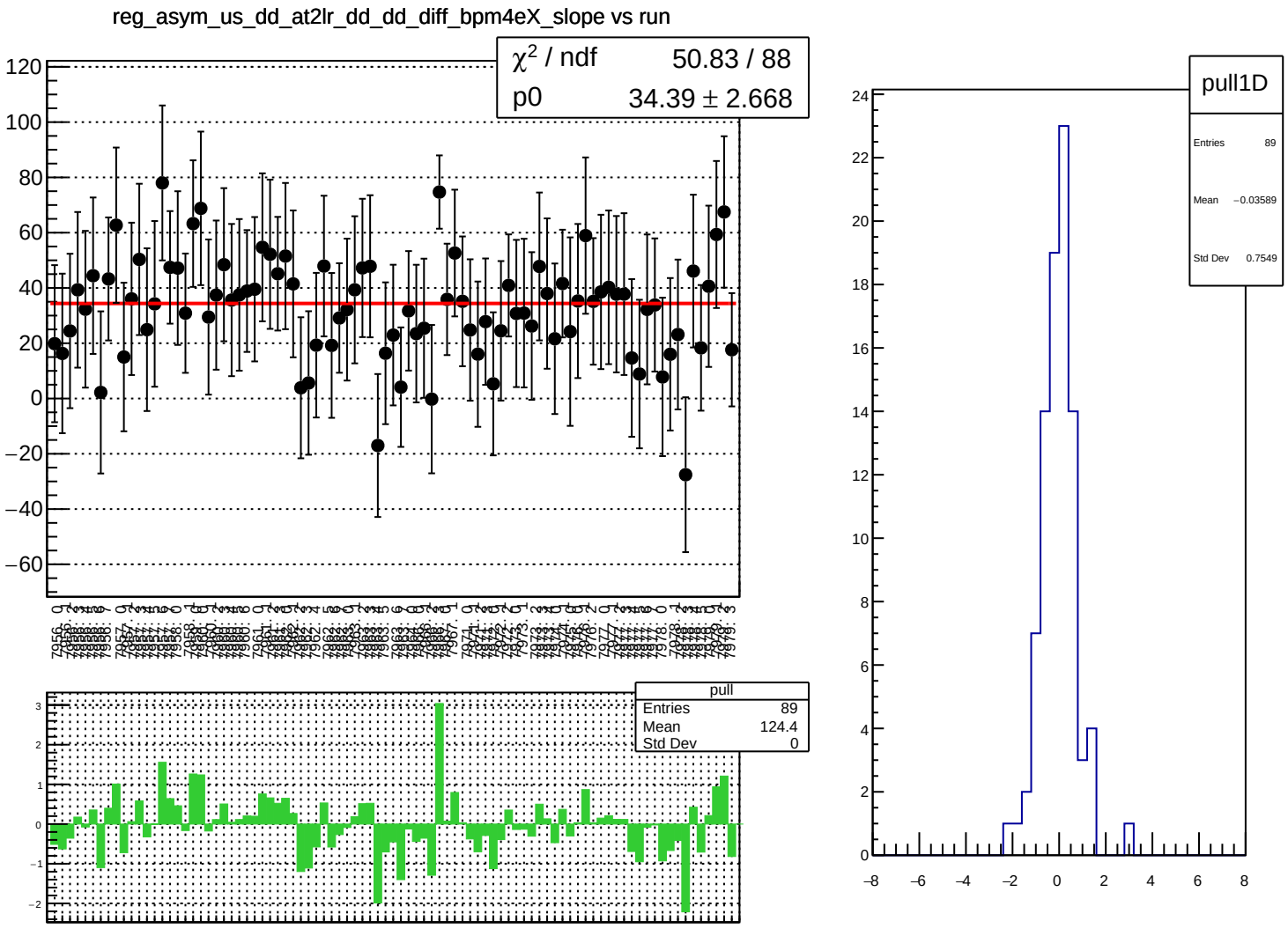

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 51.53 / 88
p0 22.76 ± 0.2373
pull
Entries 89
Mean −563
Std Dev 0

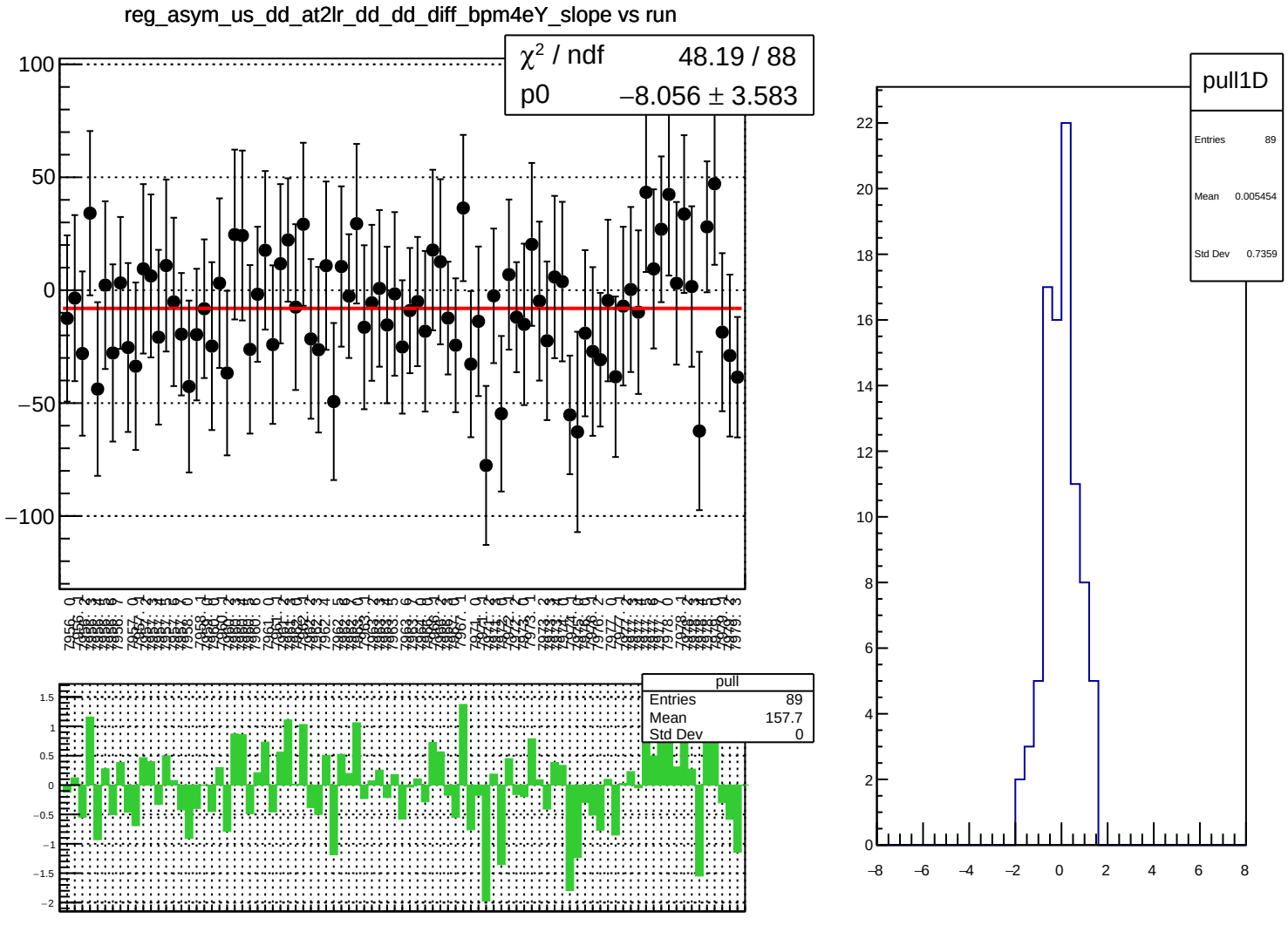

pull1D
Entries 89
Mean 0.01367
Std Dev 0.7608

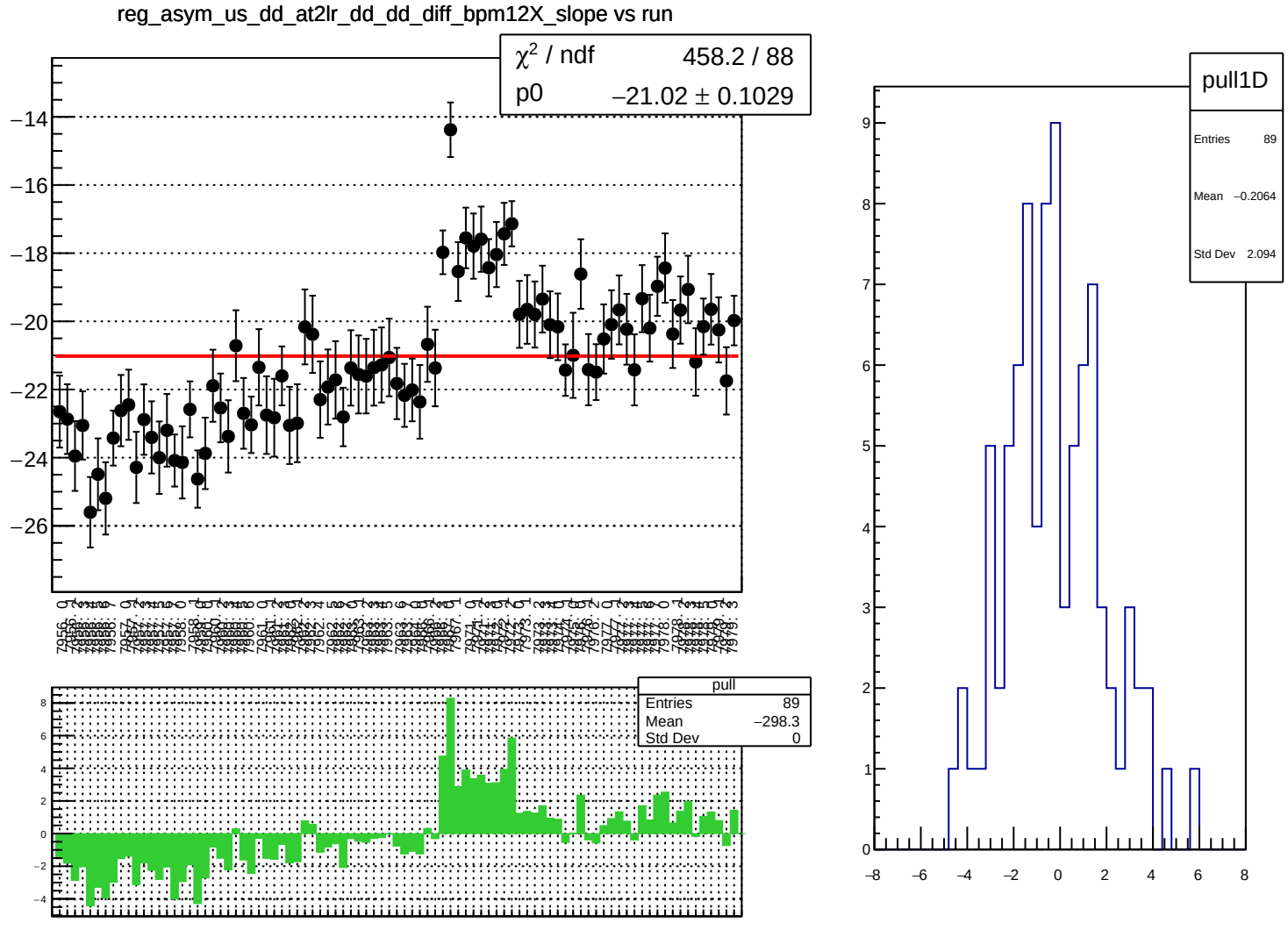

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 51.42 / 88
p0 −8.729 ± 3.007
100
50
0
−50
−100
pull
Entries 89
Mean 110.1
Std Dev 0
2
1
0
−1
−2
−3

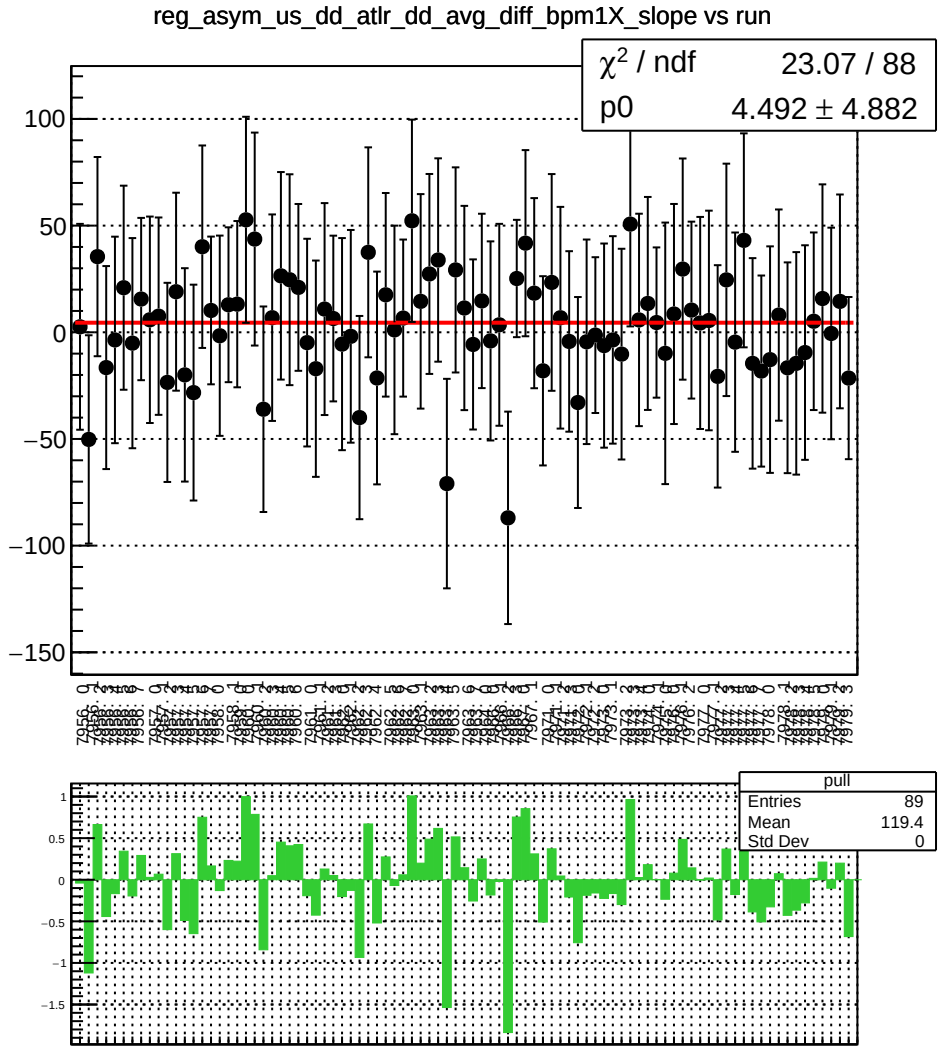

pull1D
Entries 89
Mean 0.04222
Std Dev 0.7589
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

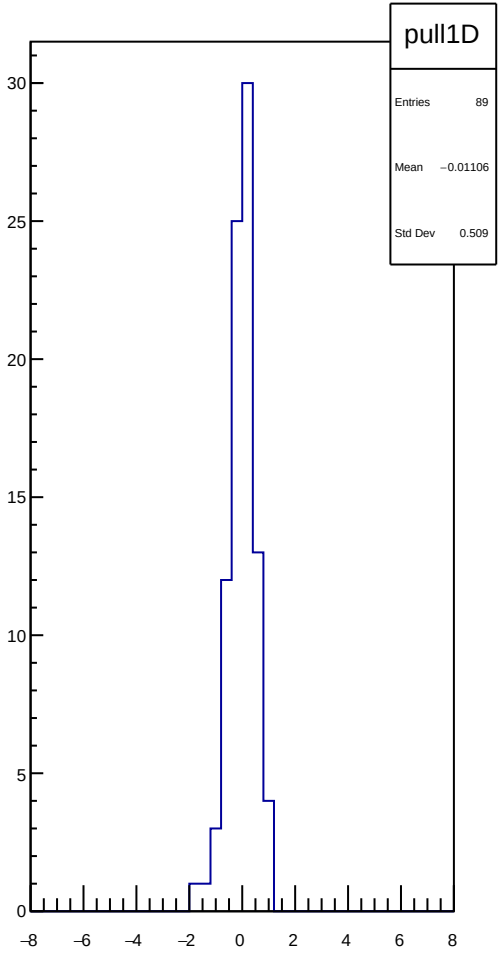

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.12 / 88
p0 10.19 ± 3.13
pull
Entries 89
Mean −73.96
Std Dev 0
pull1D
Entries 89
Mean −0.005327
Std Dev 0.7504

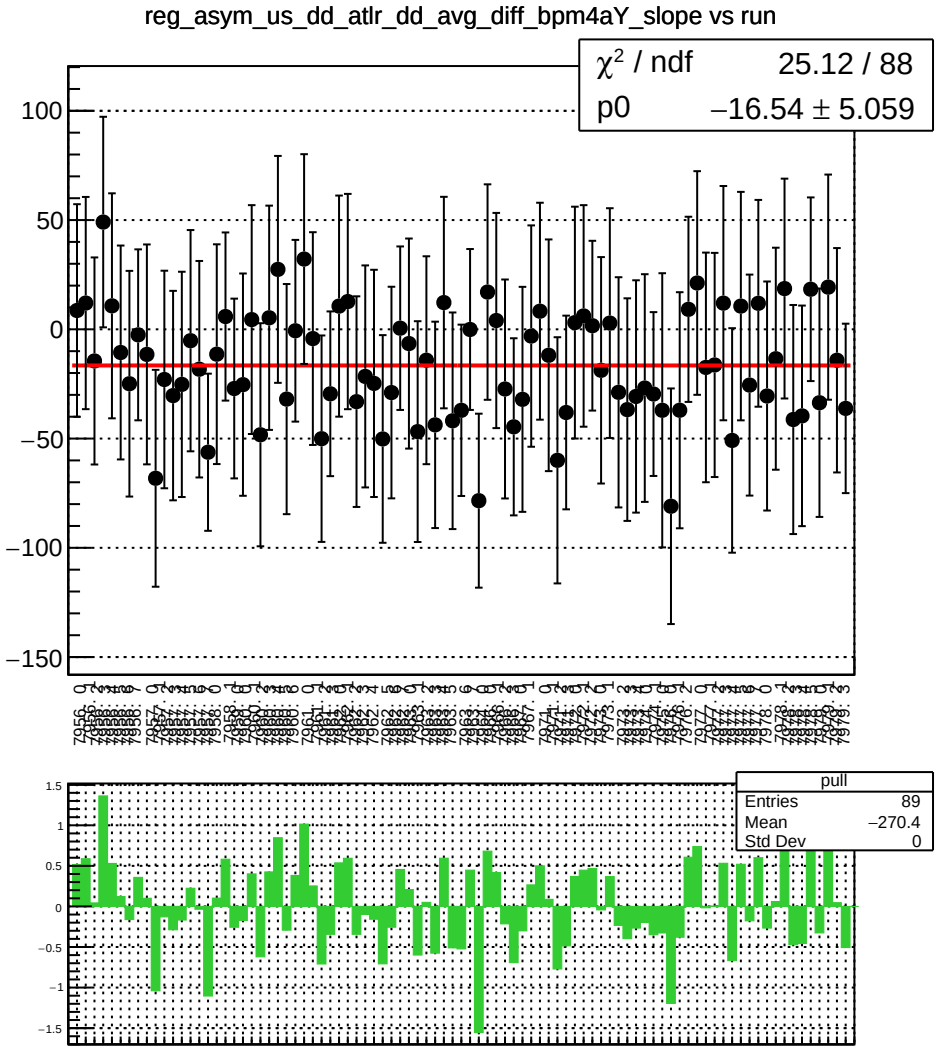

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.83 / 88
p0 34.39 ± 2.668
pull
Entries 89
Mean 124.4
Std Dev 0
pull1D
Entries 89
Mean −0.03589
Std Dev 0.7549

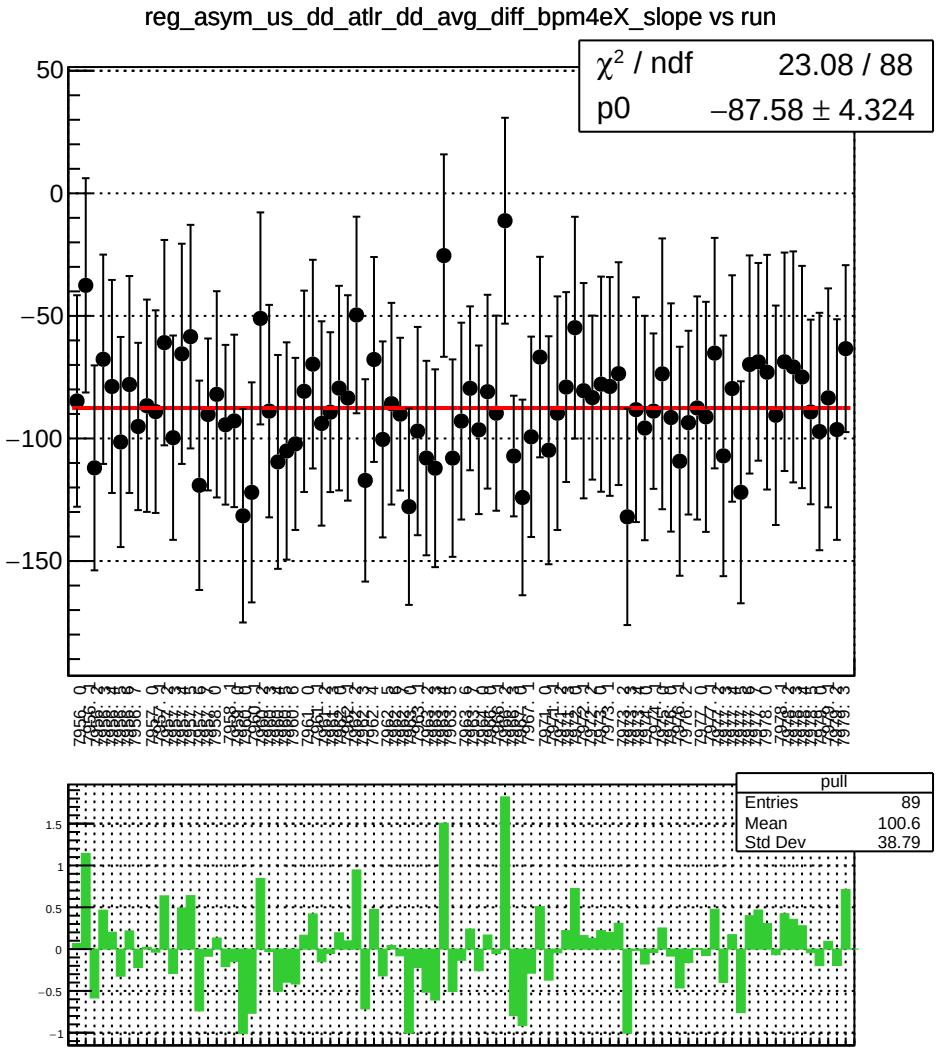

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.19 / 88
p0 −8.056 ± 3.583
pull
Entries 89
Mean 157.7
Std Dev 0
pull1D
Entries 89
Mean 0.005454
Std Dev 0.7359

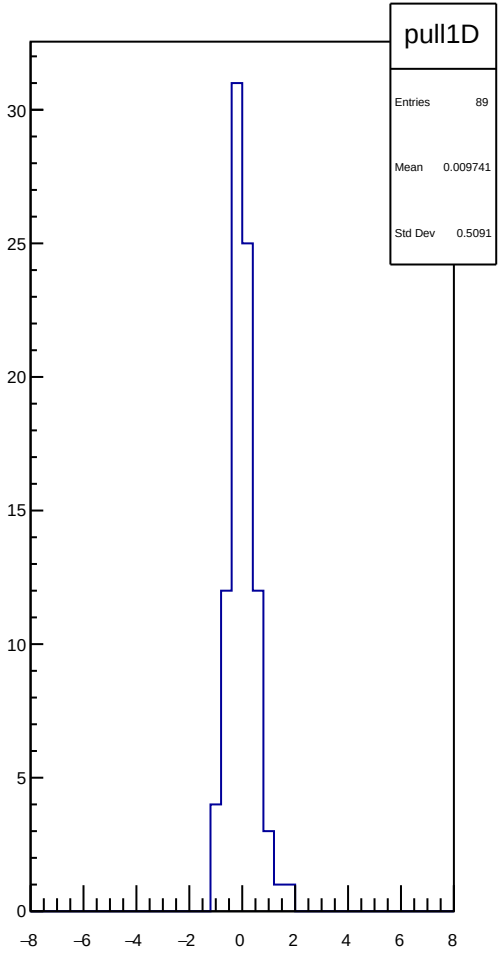

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 458.2 / 88
p0 −21.02 ± 0.1029
pull
Entries 89
Mean −298.3
Std Dev 0
pull1D
Entries 89
Mean −0.2064
Std Dev 2.094

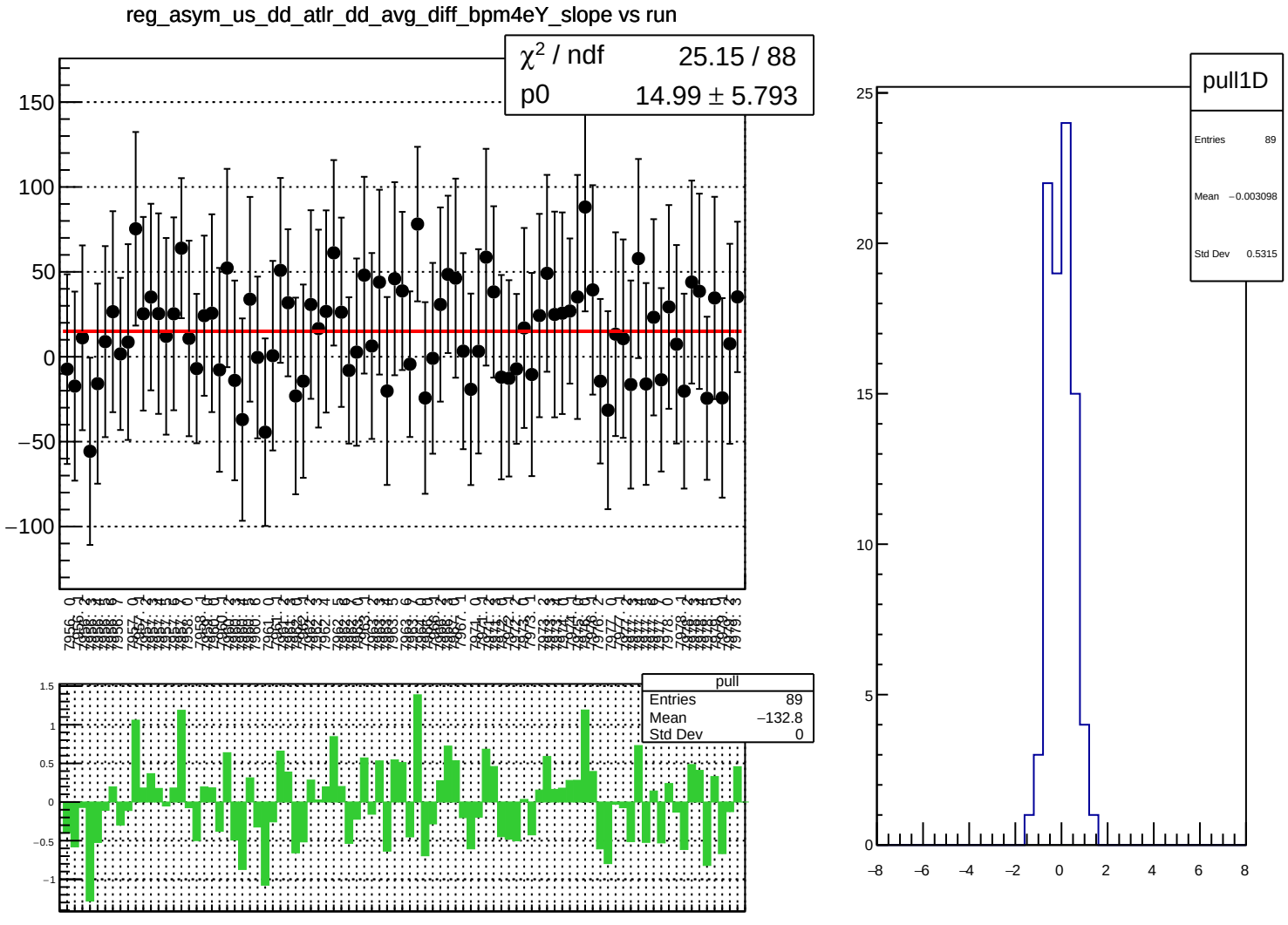

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 23.07 / 88
p0 4.492 ± 4.882
pull
Entries 89
Mean 119.4
Std Dev 0

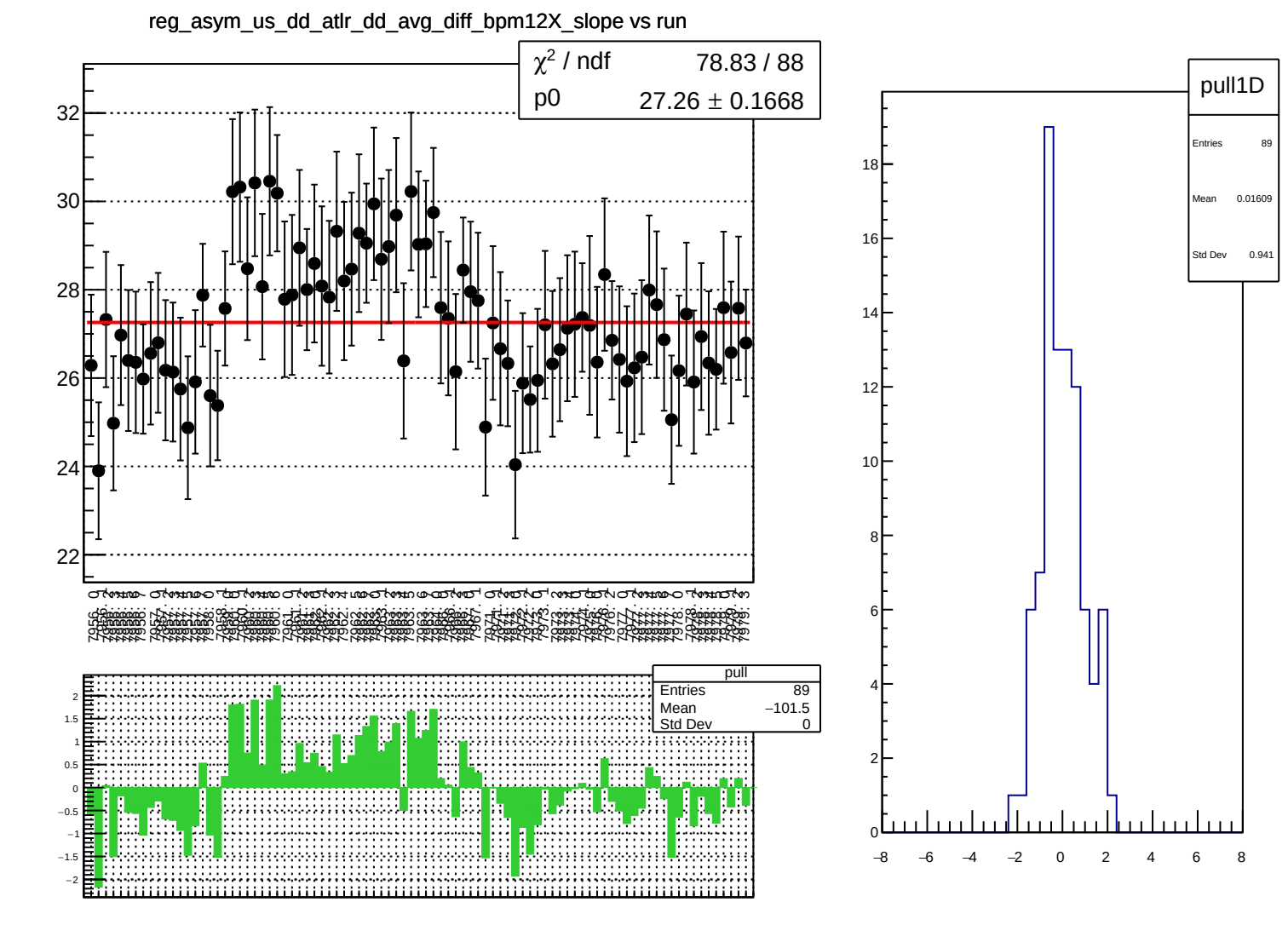

pull1D
Entries 89
Mean −0.01106
Std Dev 0.509

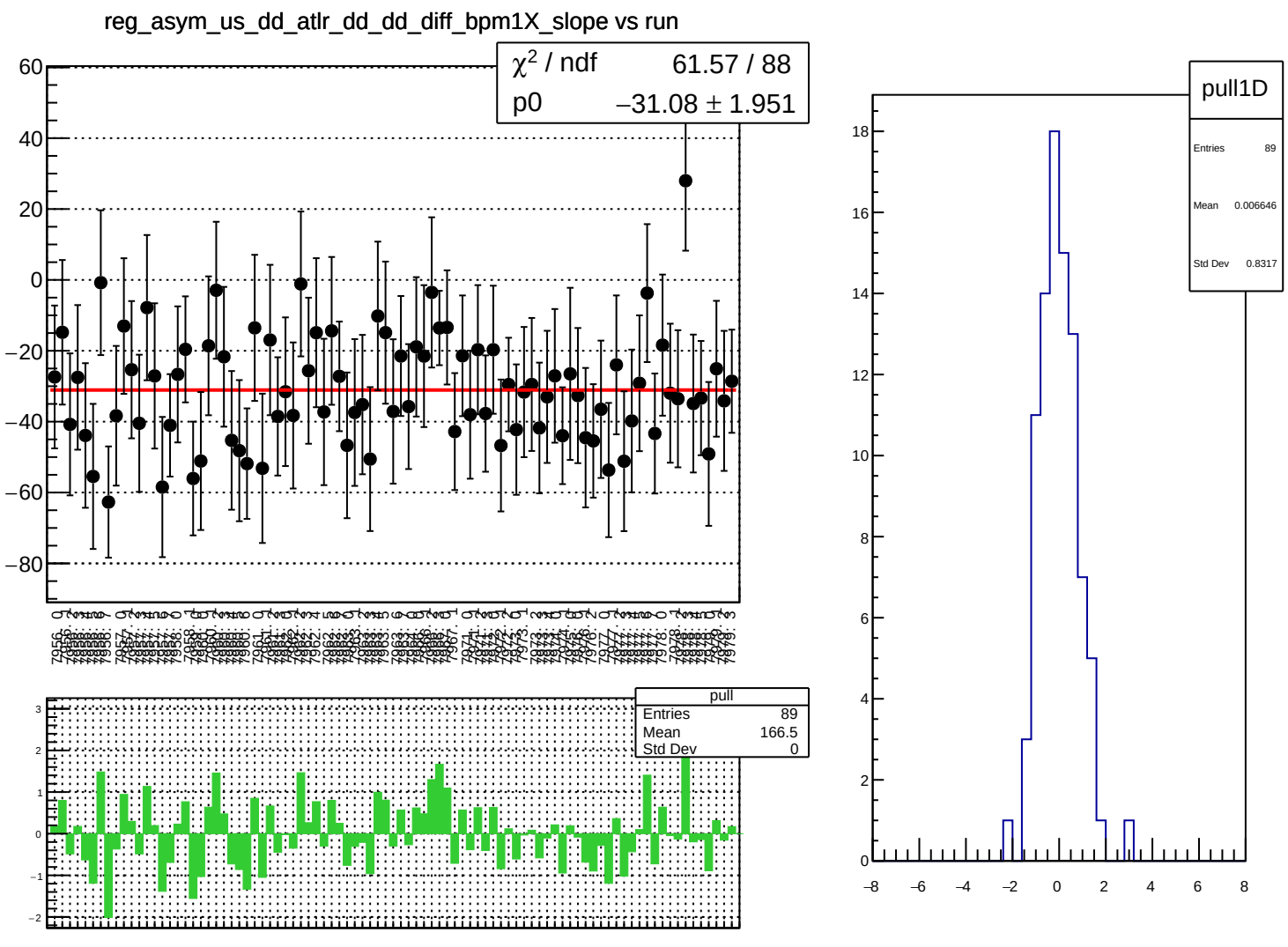

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.12 / 88
p0 −16.54 ± 5.059
pull
Entries 89
Mean −270.4
Std Dev 0
pull1D
Entries 89
Mean 0.003185
Std Dev 0.5313

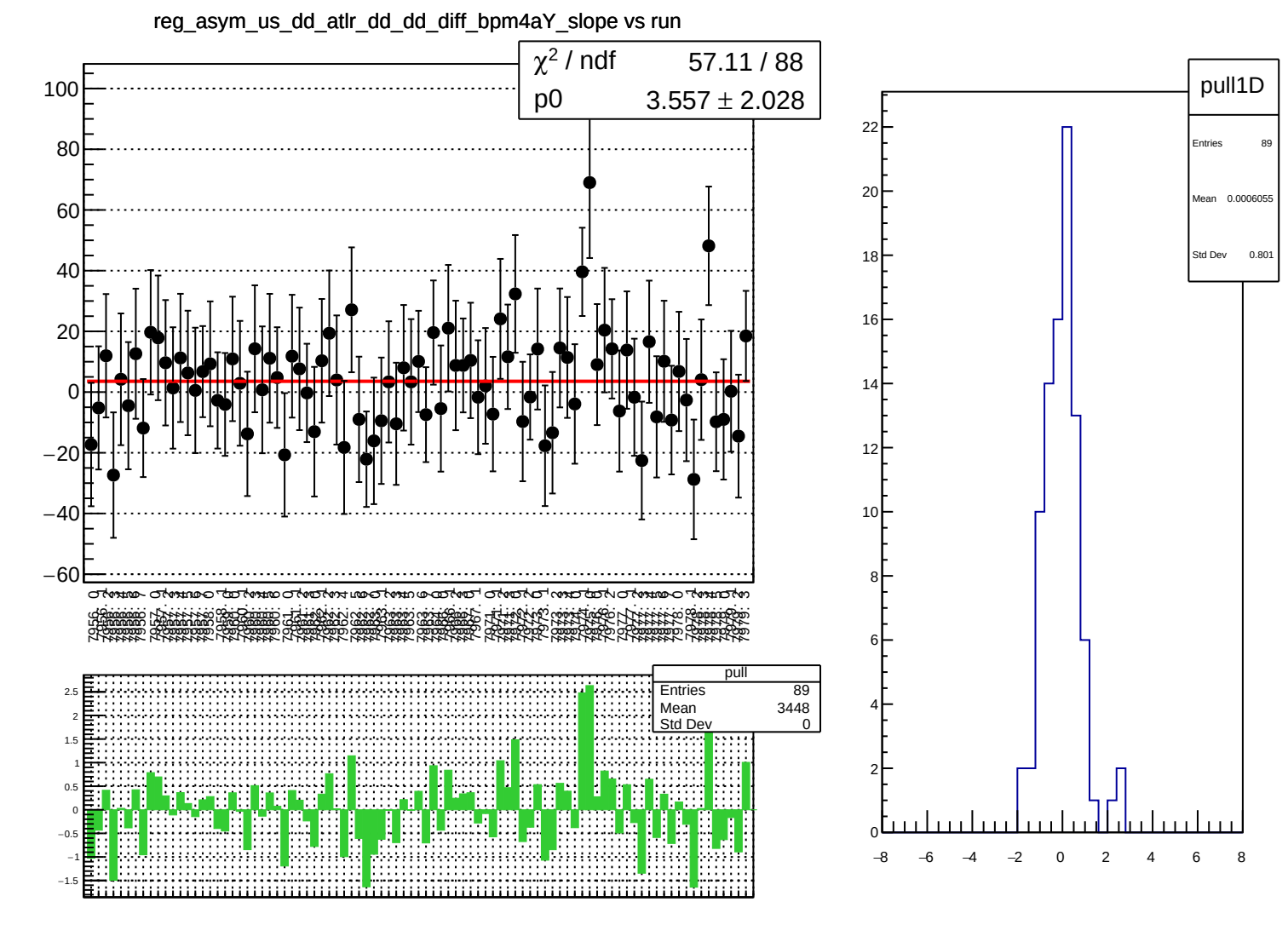

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.08 / 88
p0 −87.58 ± 4.324
pull
Entries 89
Mean 100.6
Std Dev 38.79

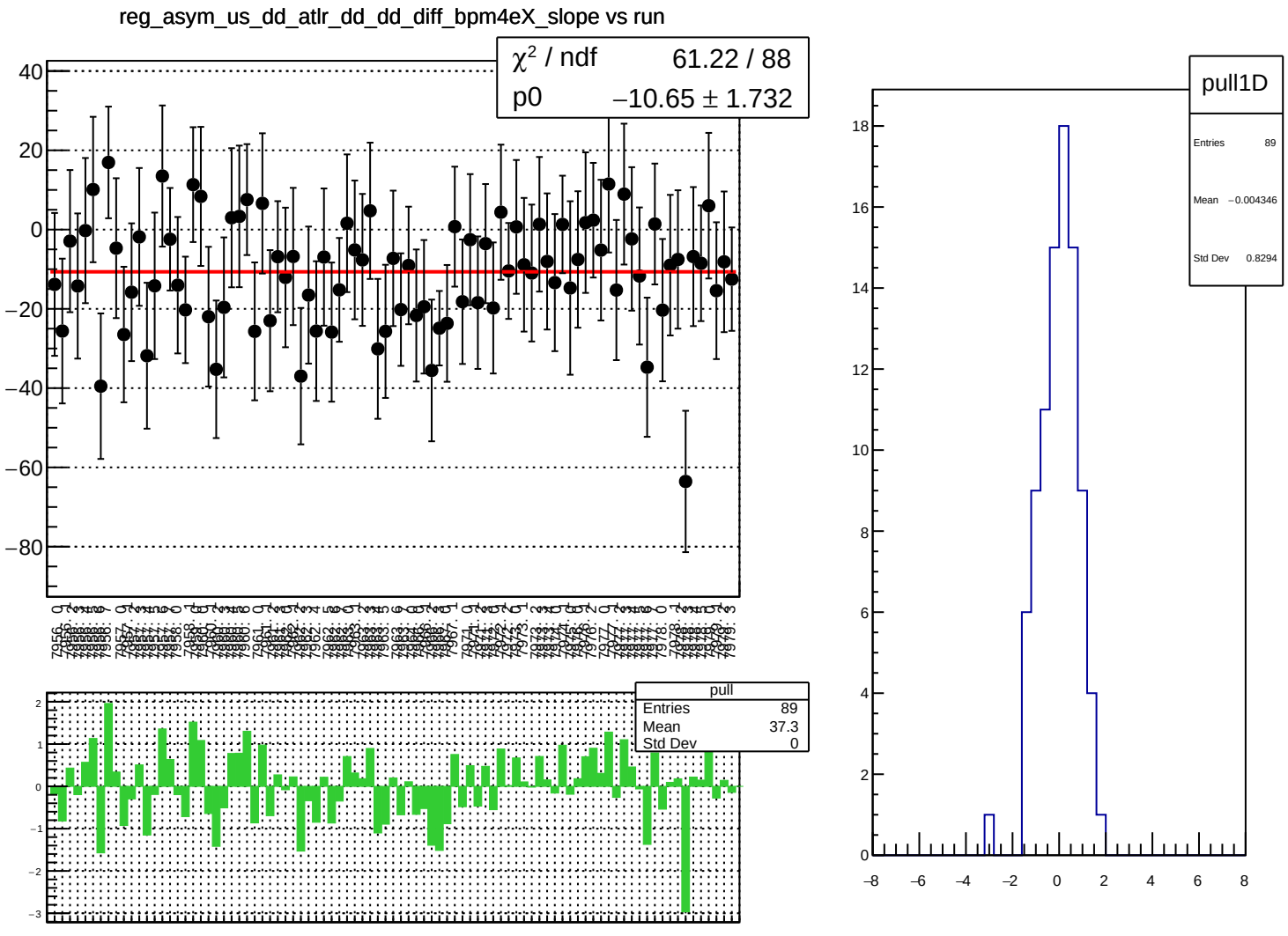

pull1D
Entries 89
Mean 0.009741
Std Dev 0.5091

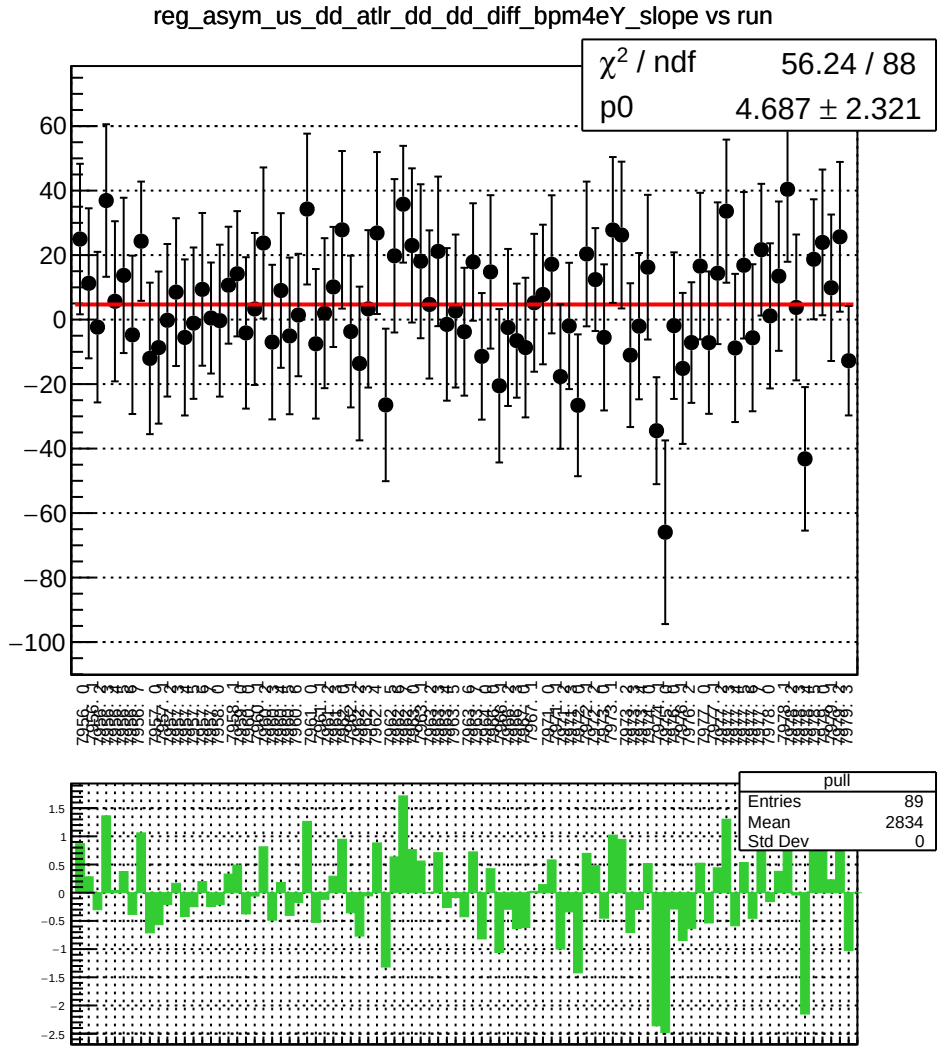

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.15 / 88
p0 14.99 ± 5.793
150
100
50
0
−50
−100
pull
Entries 89
Mean −132.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.003098
Std Dev 0.5315
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

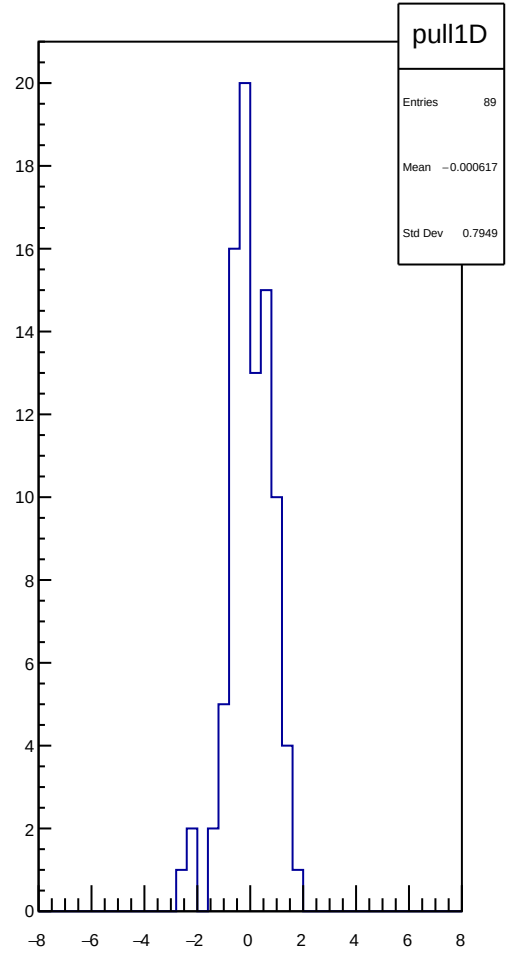

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 78.83 / 88
p0 27.26 ± 0.1668
32
30
28
26
24
22
pull
Entries 89
Mean −101.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.01609
Std Dev 0.941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

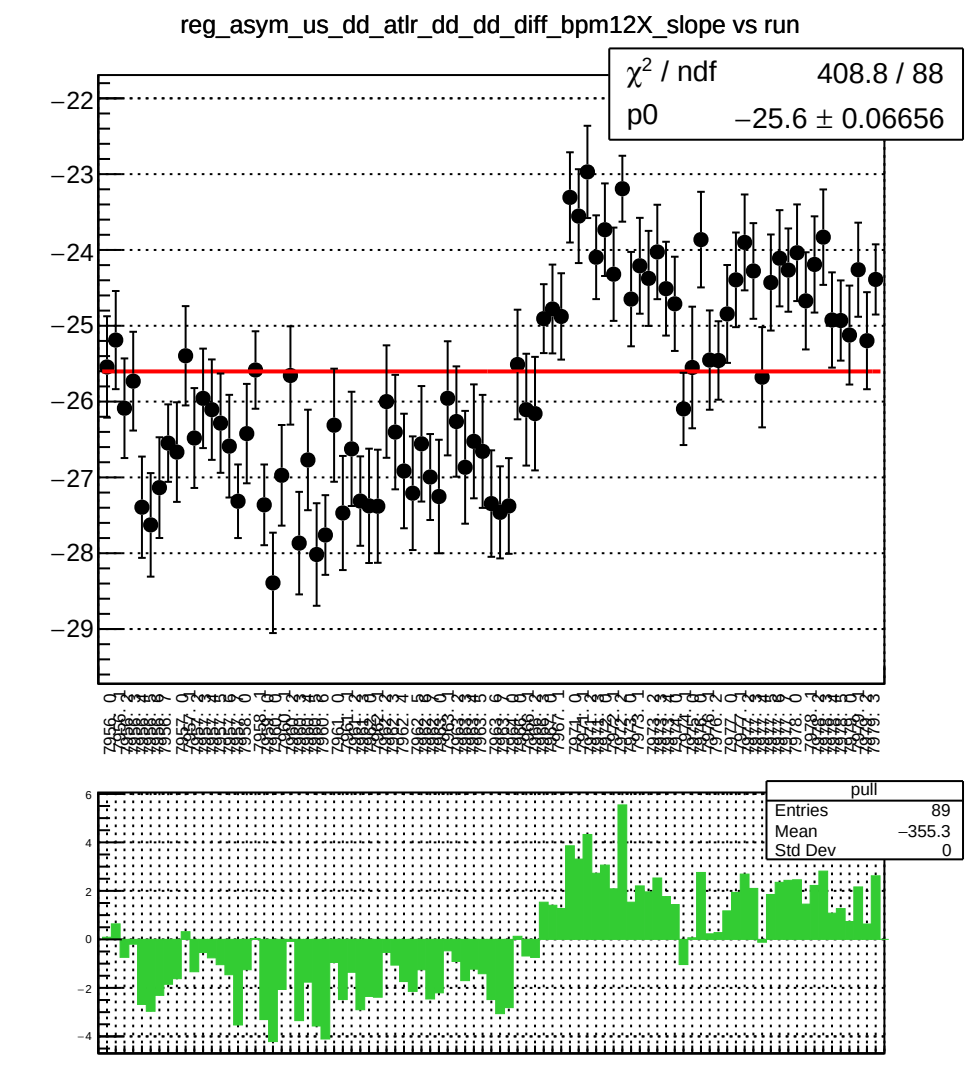

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 61.57 / 88
p0 −31.08 ± 1.951
pull
Entries 89
Mean 166.5
Std Dev 0
pull1D
Entries 89
Mean 0.006646
Std Dev 0.8317

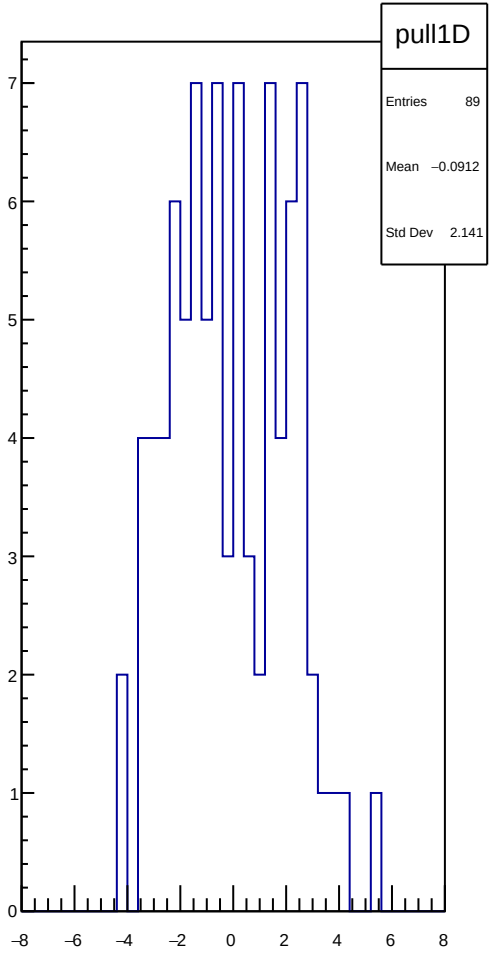

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.11 / 88
p0 3.557 ± 2.028
pull
Entries 89
Mean 3448
Std Dev 0
pull1D
Entries 89
Mean 0.0006055
Std Dev 0.801

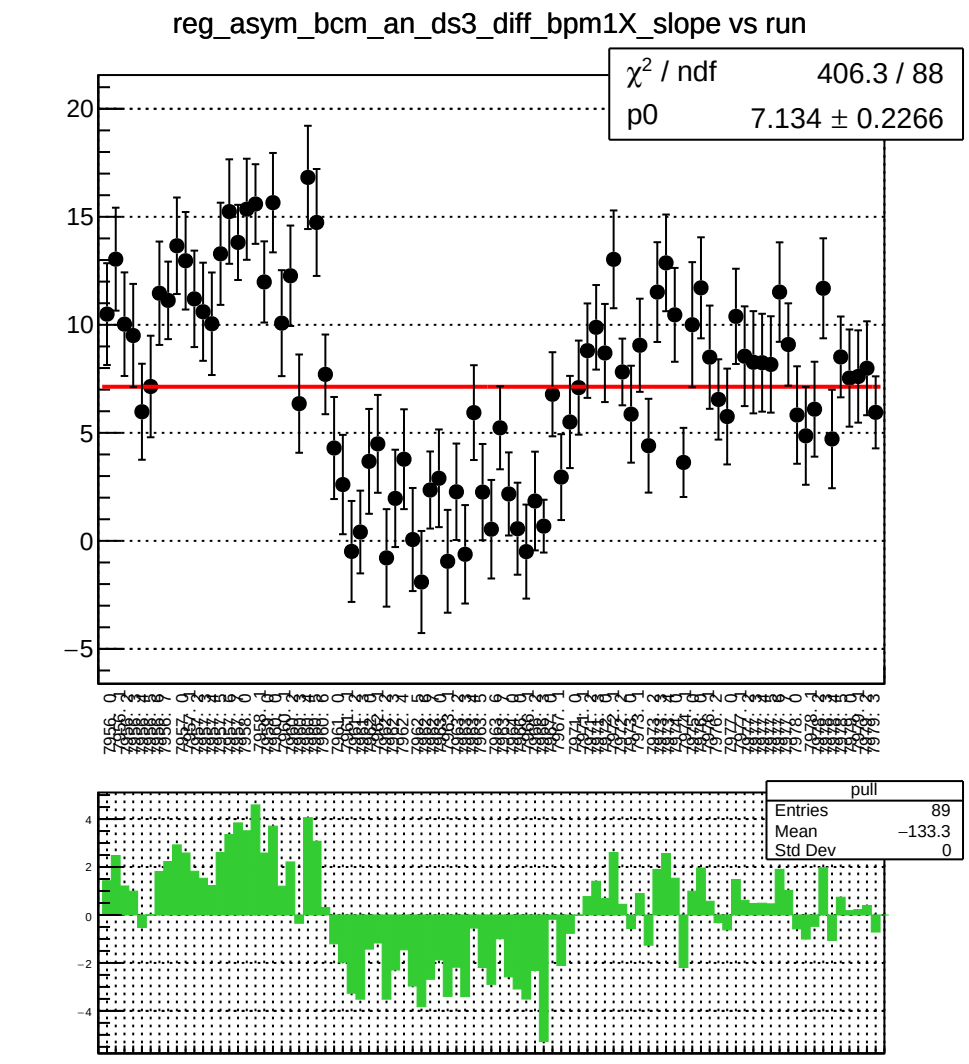

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.22 / 88
p0 −10.65 ± 1.732
pull
Entries 89
Mean 37.3
Std Dev 0
pull1D
Entries 89
Mean −0.004346
Std Dev 0.8294

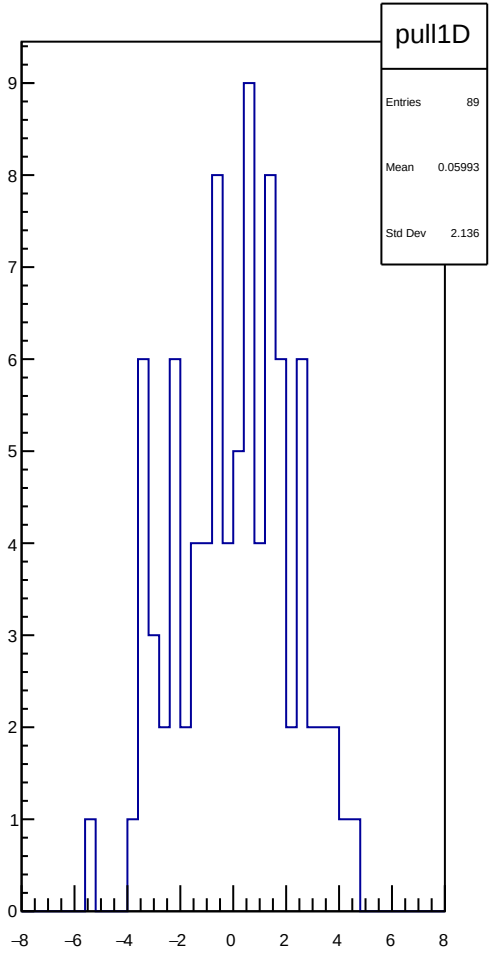

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.24 / 88
p0 4.687 ± 2.321
pull
Entries 89
Mean 2834
Std Dev 0

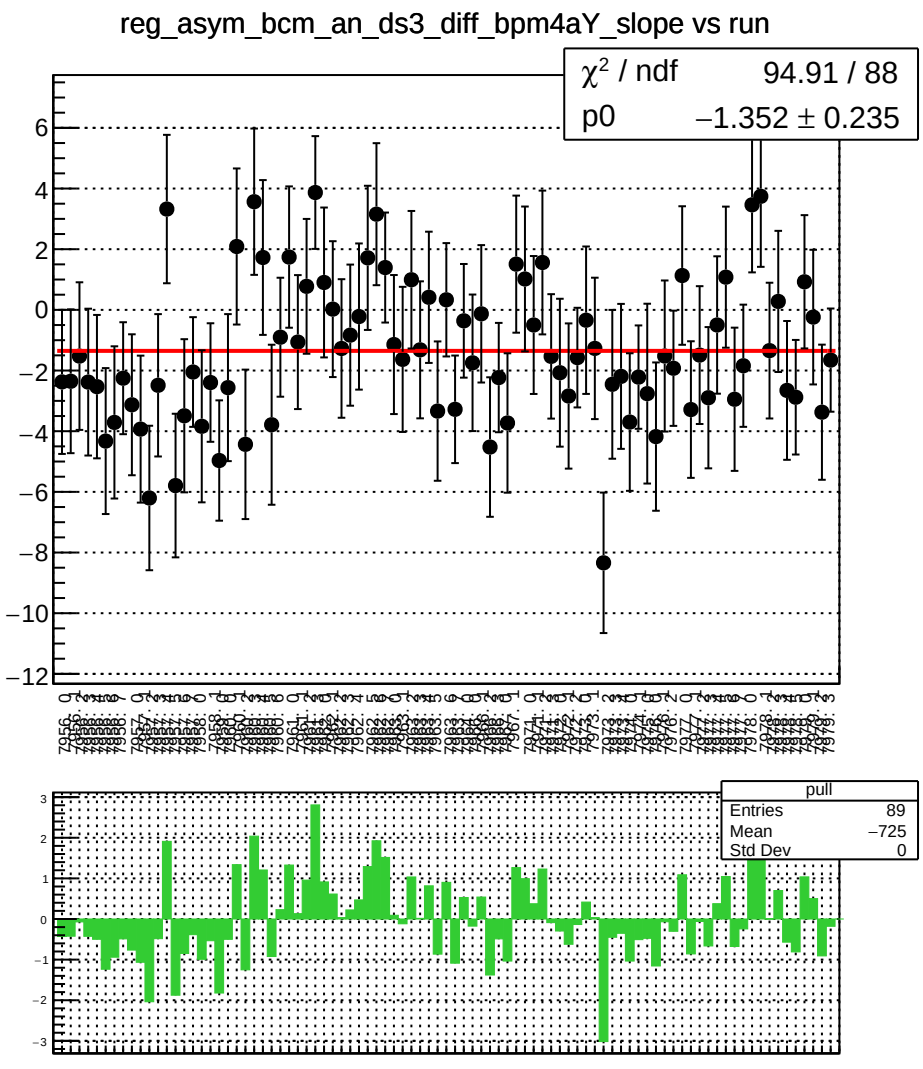

pull1D
Entries 89
Mean −0.000617
Std Dev 0.7949

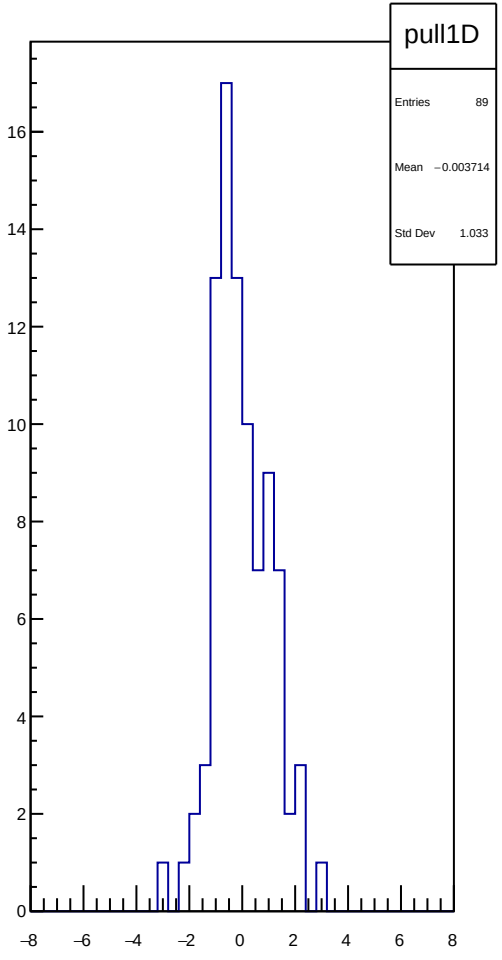

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 408.8 / 88
p0 −25.6 ± 0.06656
pull
Entries 89
Mean −355.3
Std Dev 0

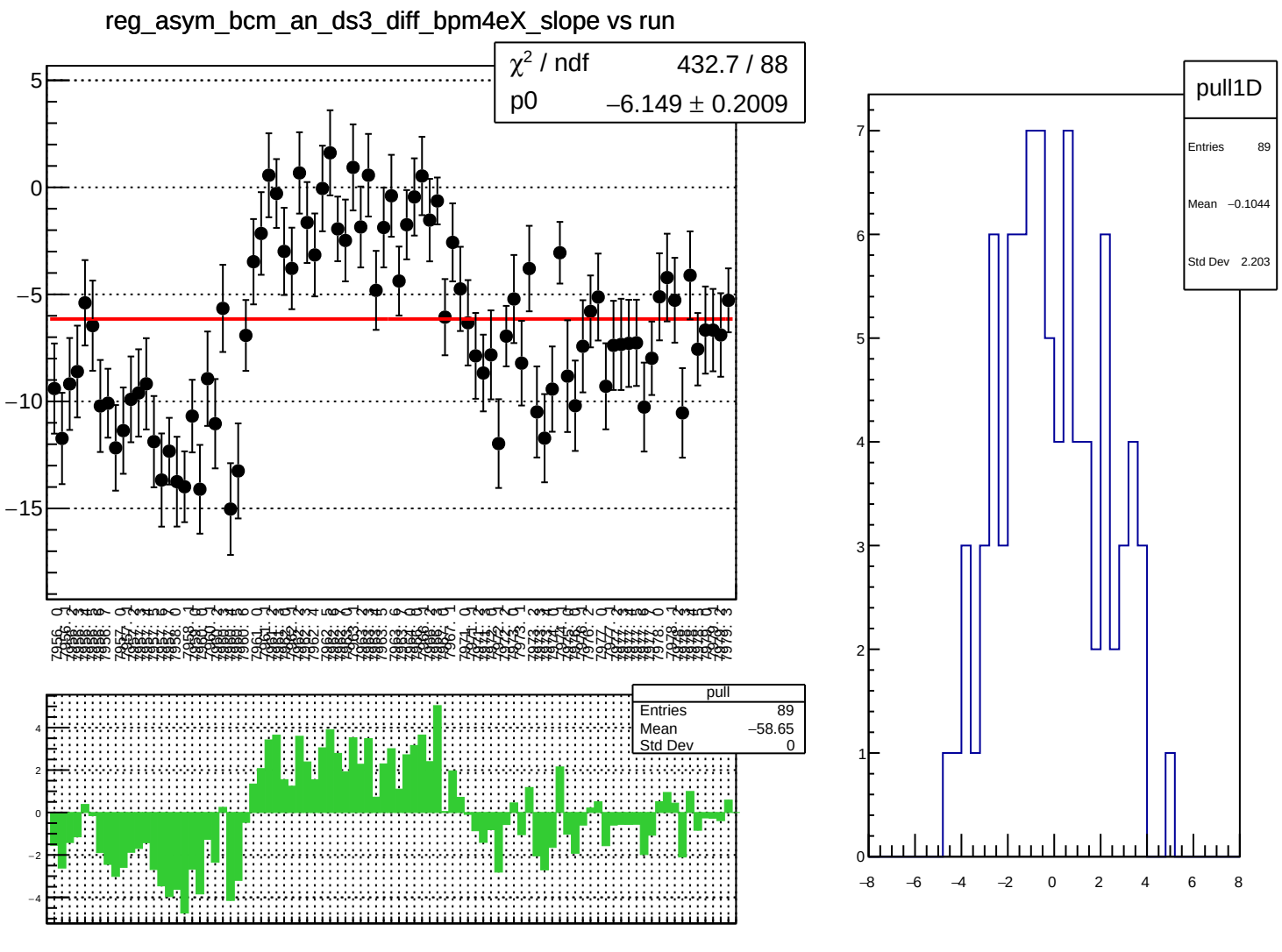

pull1D
Entries 89
Mean −0.0912
Std Dev 2.141

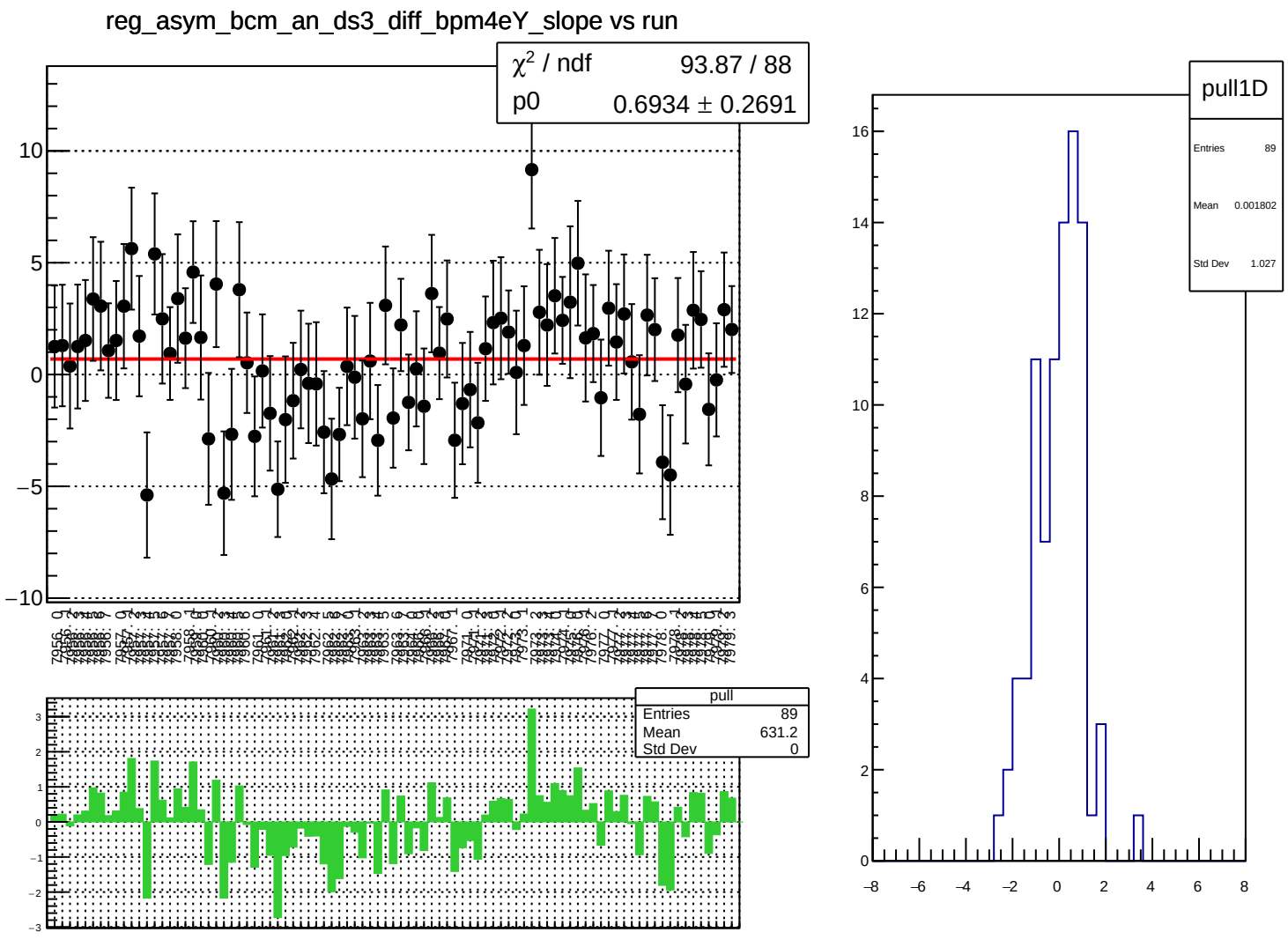

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 406.3 / 88
p0 7.134 ± 0.2266
pull
Entries 89
Mean −133.3
Std Dev 0

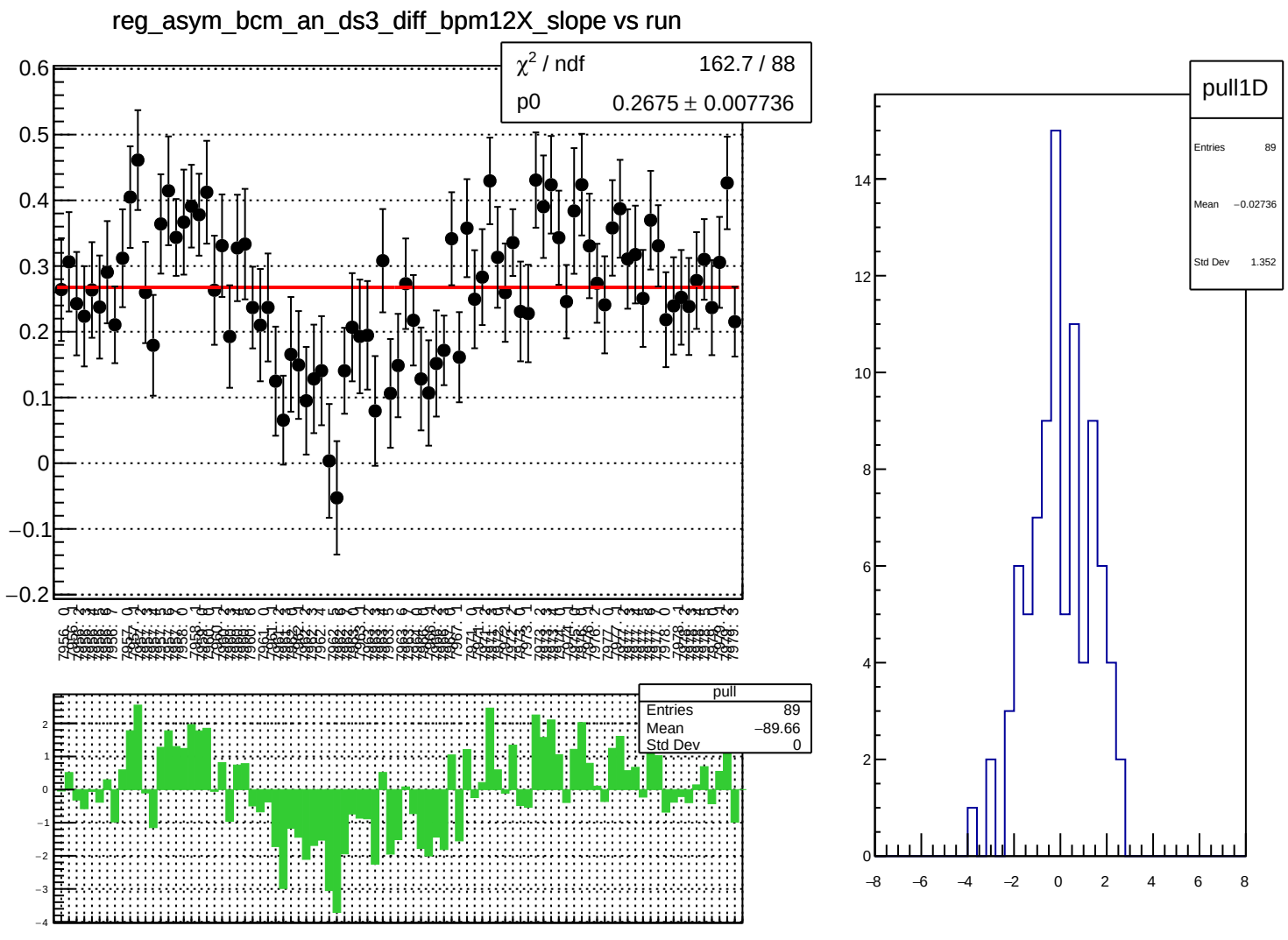

pull1D
Entries 89
Mean 0.05993
Std Dev 2.136

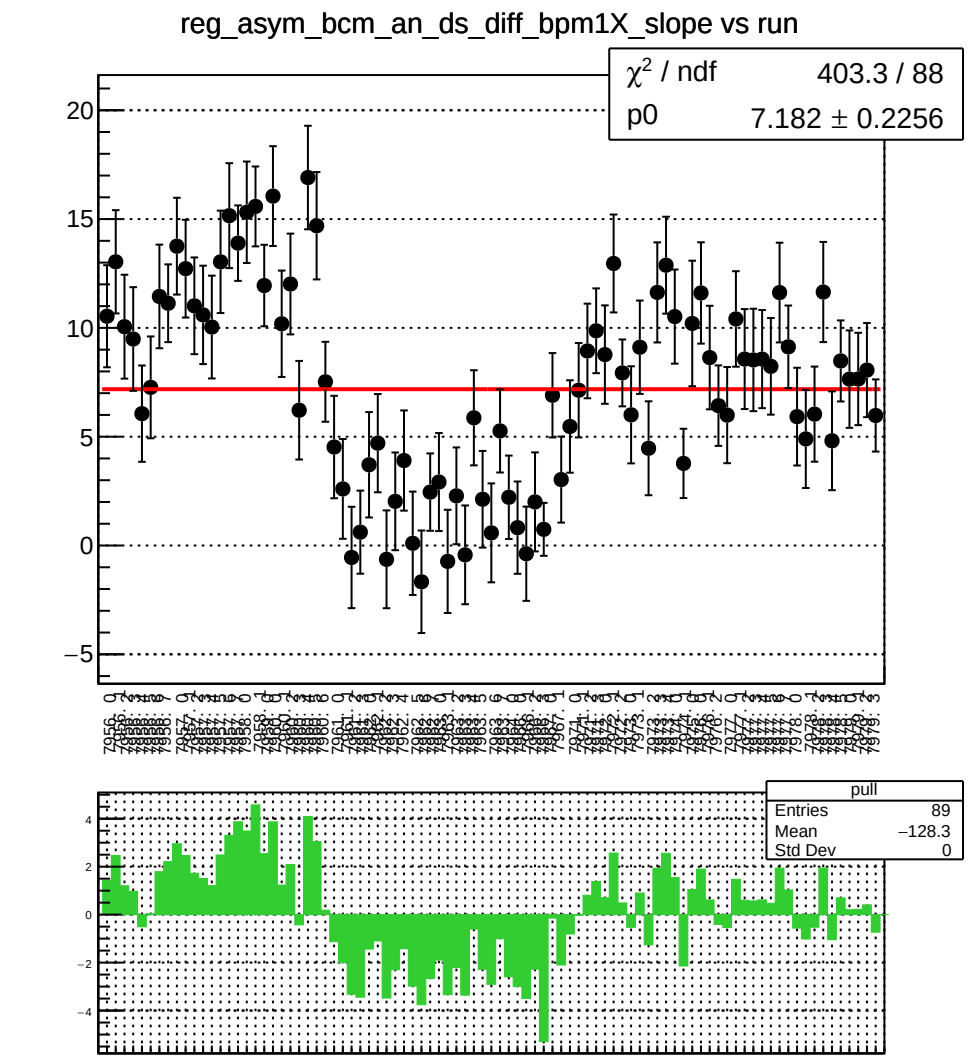

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 94.91 / 88
p0 −1.352 ± 0.235
pull
Entries 89
Mean −725
Std Dev 0

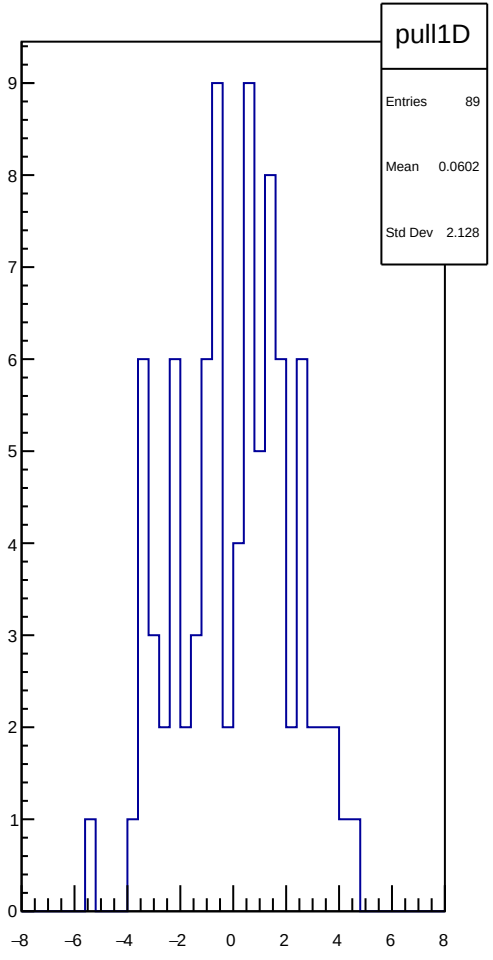

pull1D
Entries 89
Mean −0.003714
Std Dev 1.033

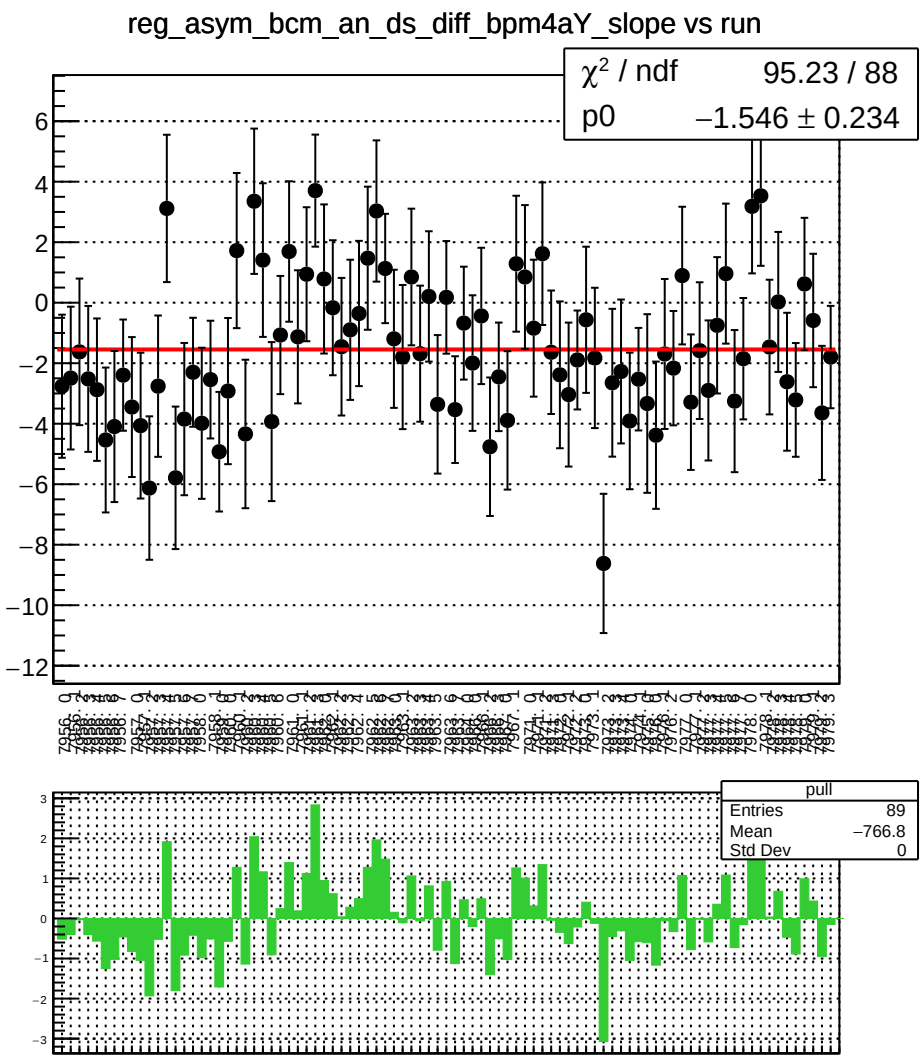

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 432.7 / 88
p0 −6.149 ± 0.2009
pull
Entries 89
Mean −58.65
Std Dev 0
pull1D
Entries 89
Mean −0.1044
Std Dev 2.203

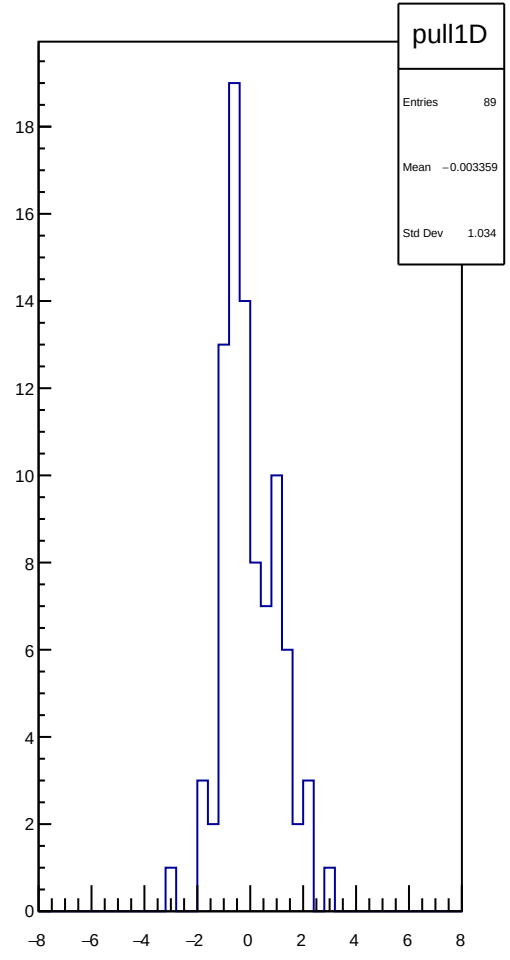

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 93.87 / 88
p0 0.6934 ± 0.2691
pull
Entries 89
Mean 631.2
Std Dev 0
pull1D
Entries 89
Mean 0.001802
Std Dev 1.027

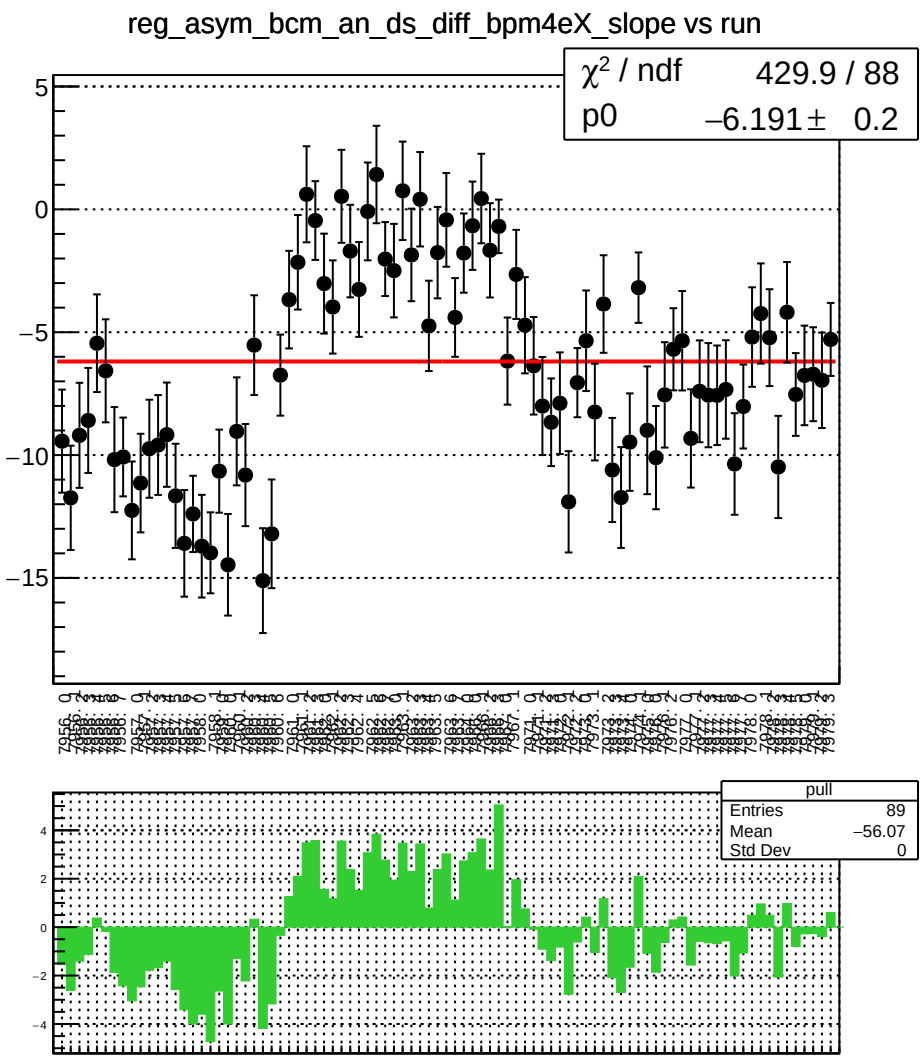

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 162.7 / 88
p0 0.2675 ± 0.007736
pull
Entries 89
Mean −89.66
Std Dev 0
pull1D
Entries 89
Mean −0.02736
Std Dev 1.352

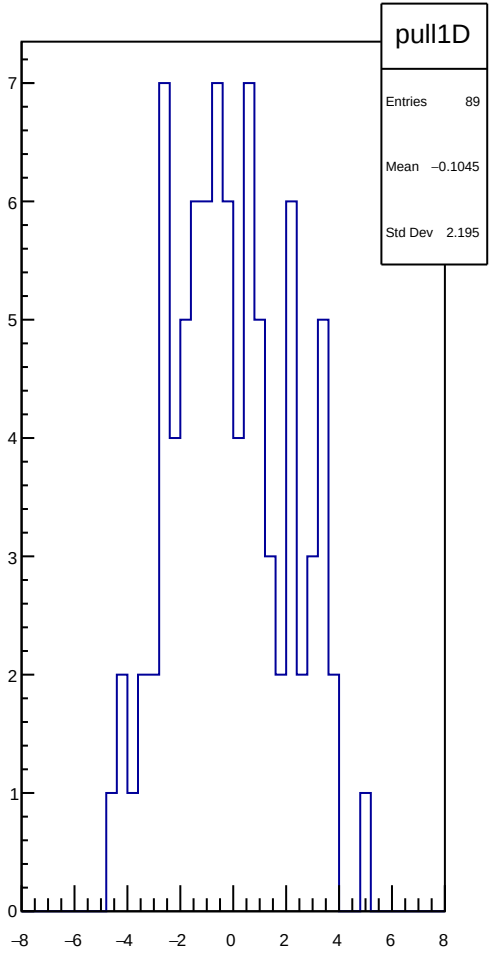

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 403.3 / 88
p0 7.182 ± 0.2256
pull
Entries 89
Mean −128.3
Std Dev 0

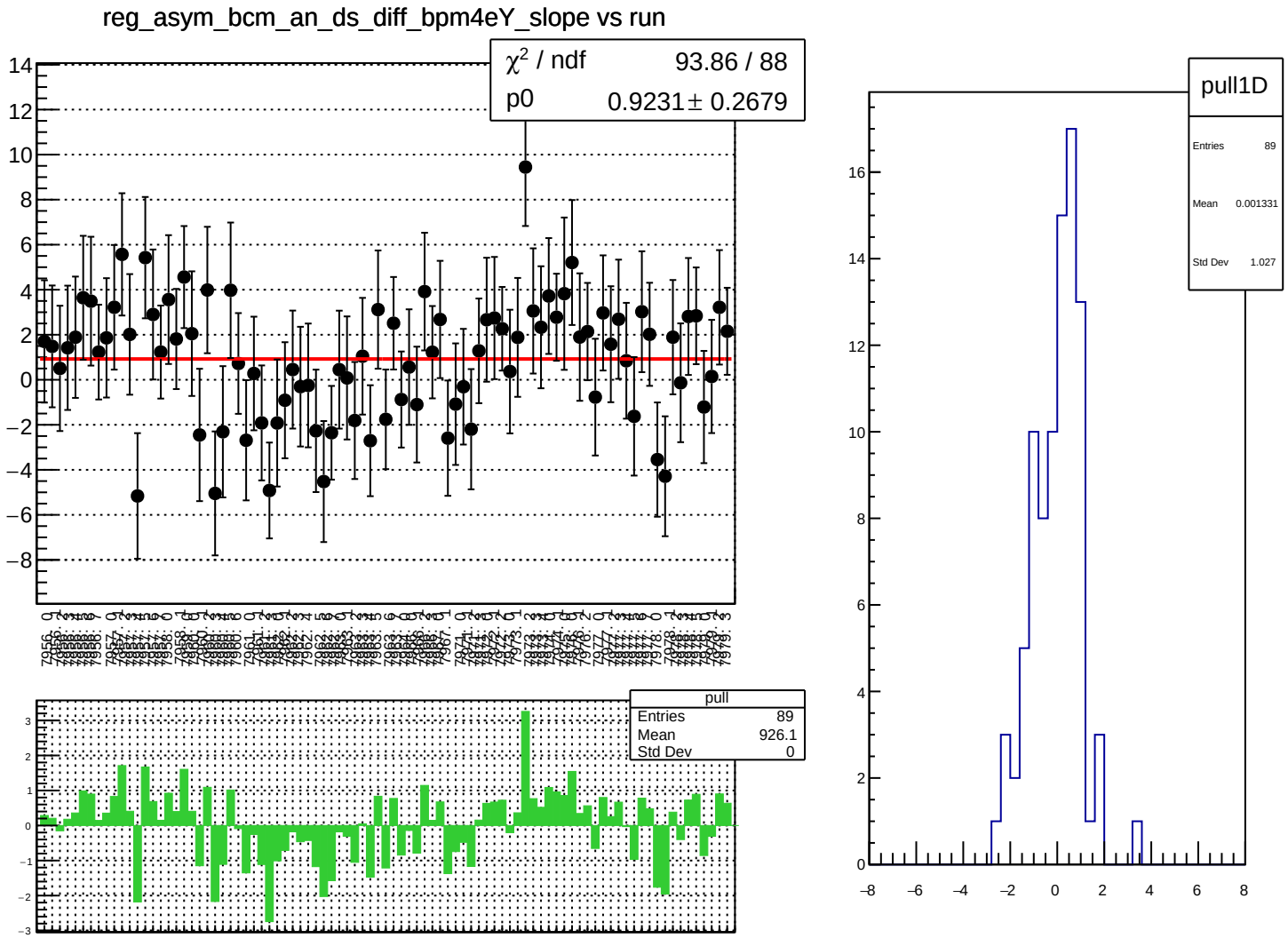

pull1D
Entries 89
Mean 0.0602
Std Dev 2.128

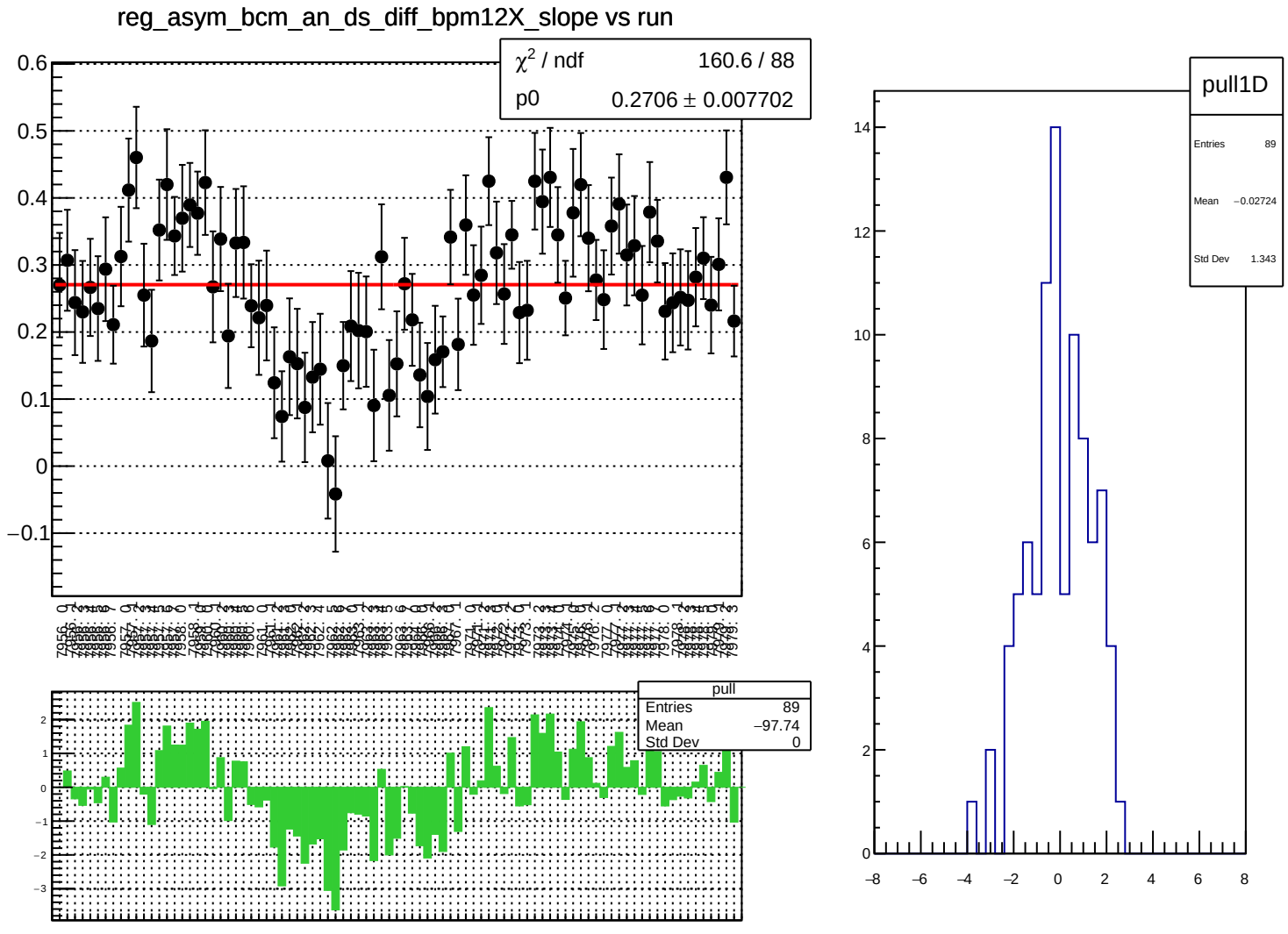

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 95.23 / 88
p0 −1.546 ± 0.234
pull
Entries 89
Mean −766.8
Std Dev 0

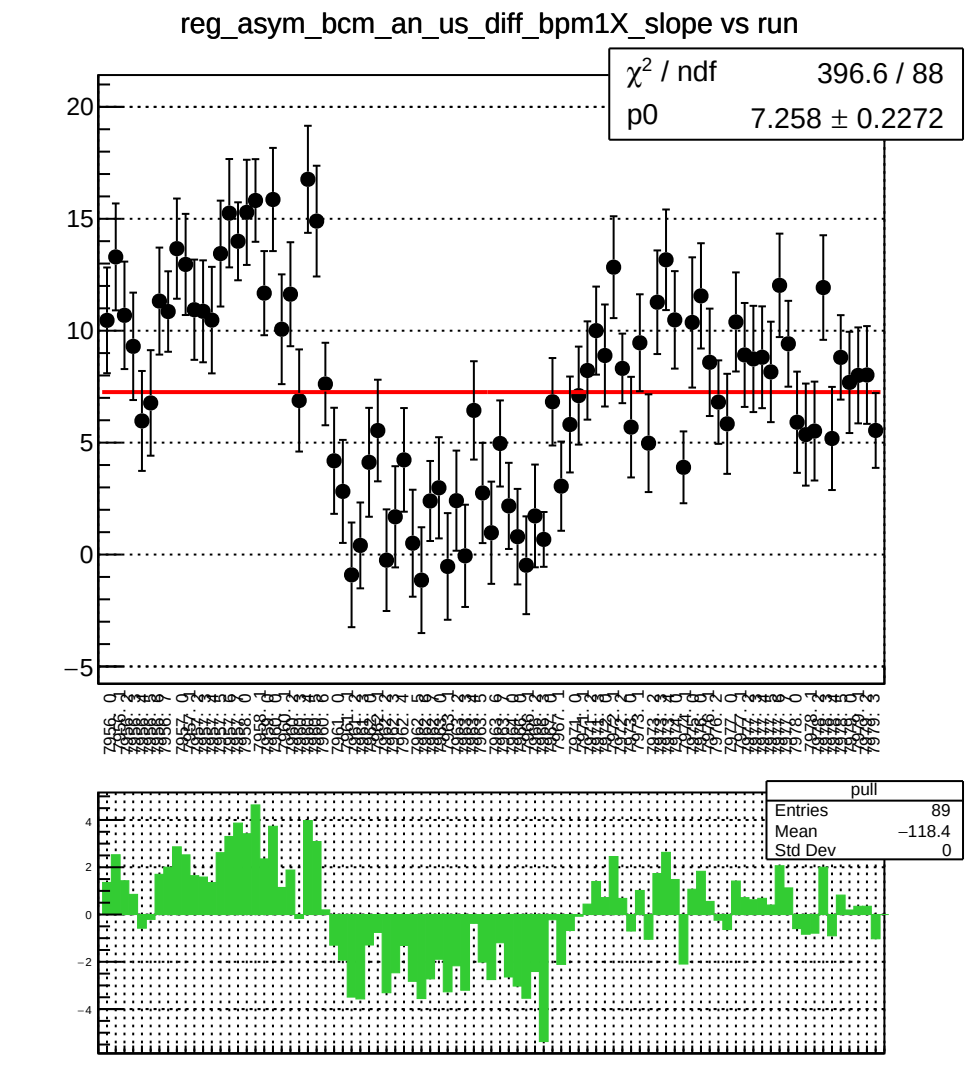

pull1D
Entries 89
Mean −0.003359
Std Dev 1.034

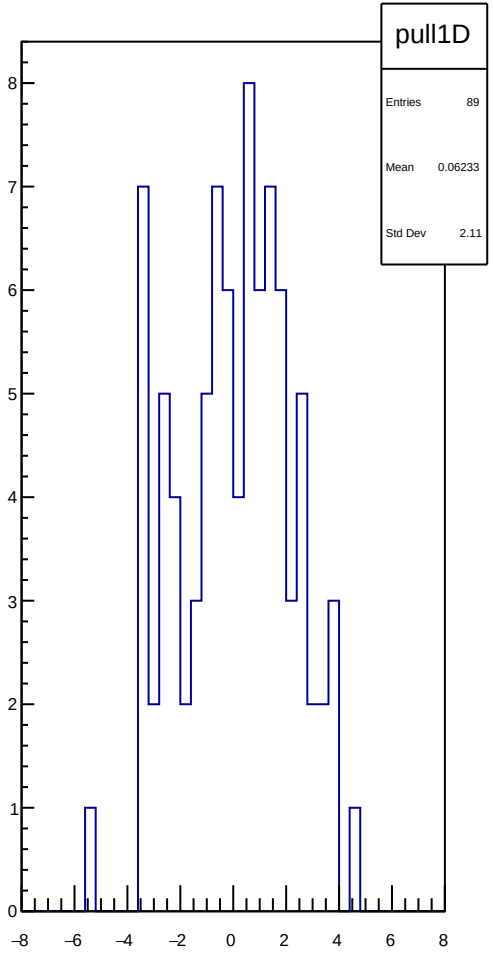

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 429.9 / 88
p0 −6.191 ± 0.2
pull
Entries 89
Mean −56.07
Std Dev 0

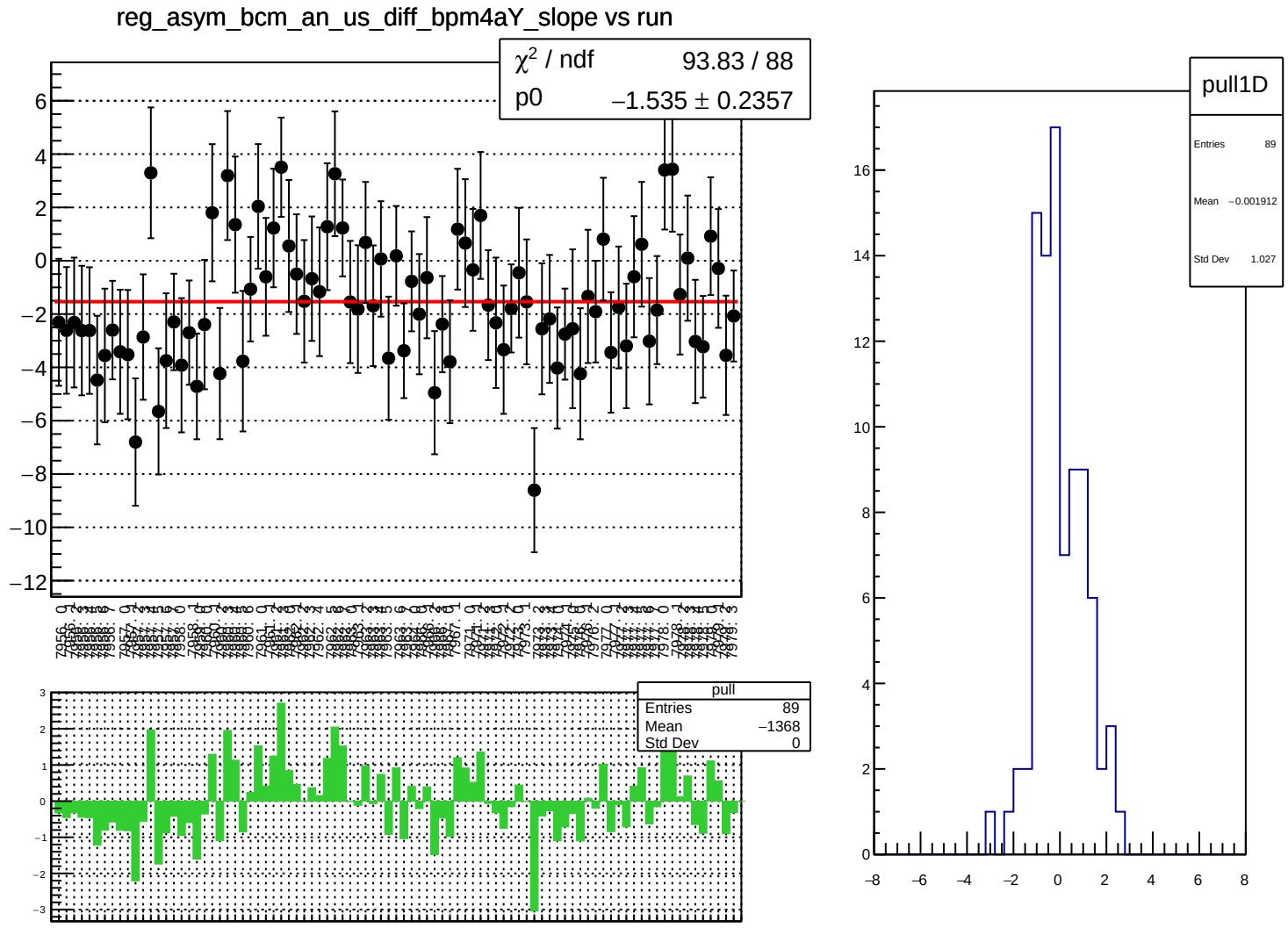

pull1D
Entries 89
Mean −0.1045
Std Dev 2.195

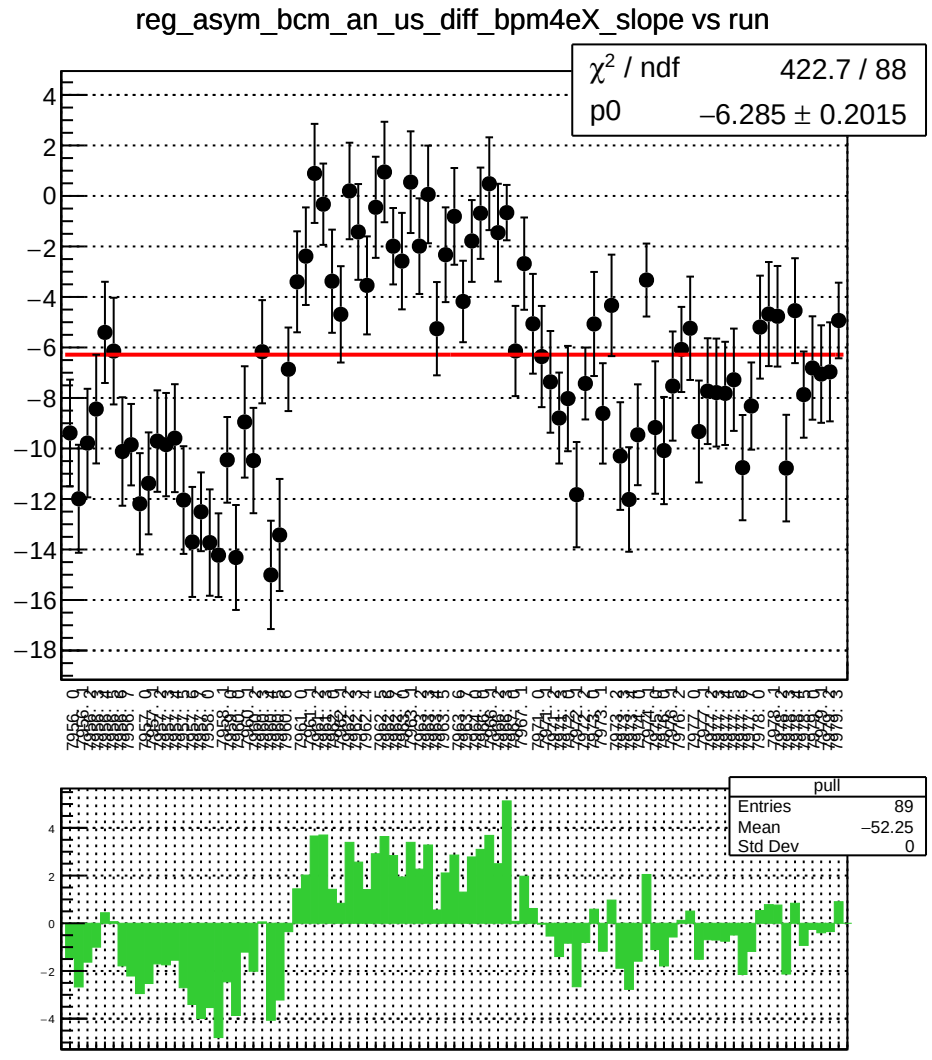

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 93.86 / 88
p0 0.9231± 0.2679
pull
Entries 89
Mean 926.1
Std Dev 0
pull1D
Entries 89
Mean 0.001331
Std Dev 1.027

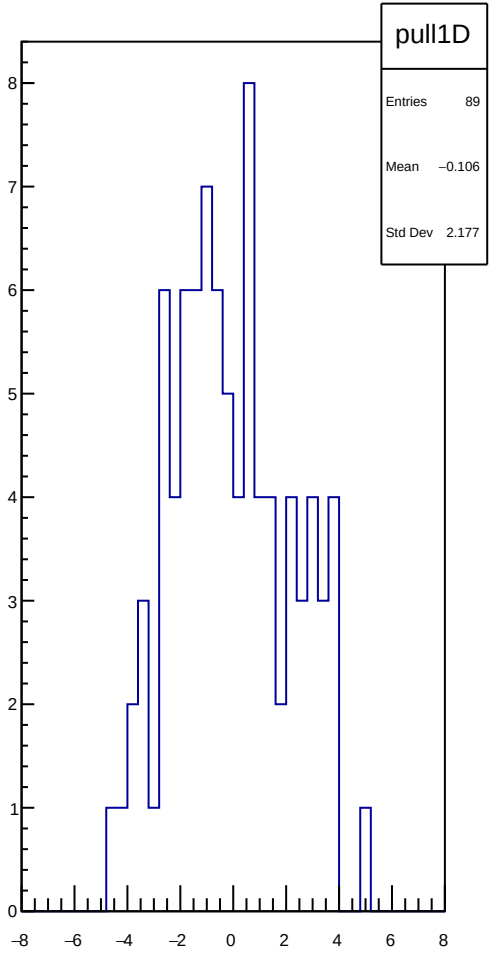

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 160.6 / 88
p0 0.2706 ± 0.007702
pull
Entries 89
Mean −97.74
Std Dev 0
pull1D
Entries 89
Mean −0.02724
Std Dev 1.343

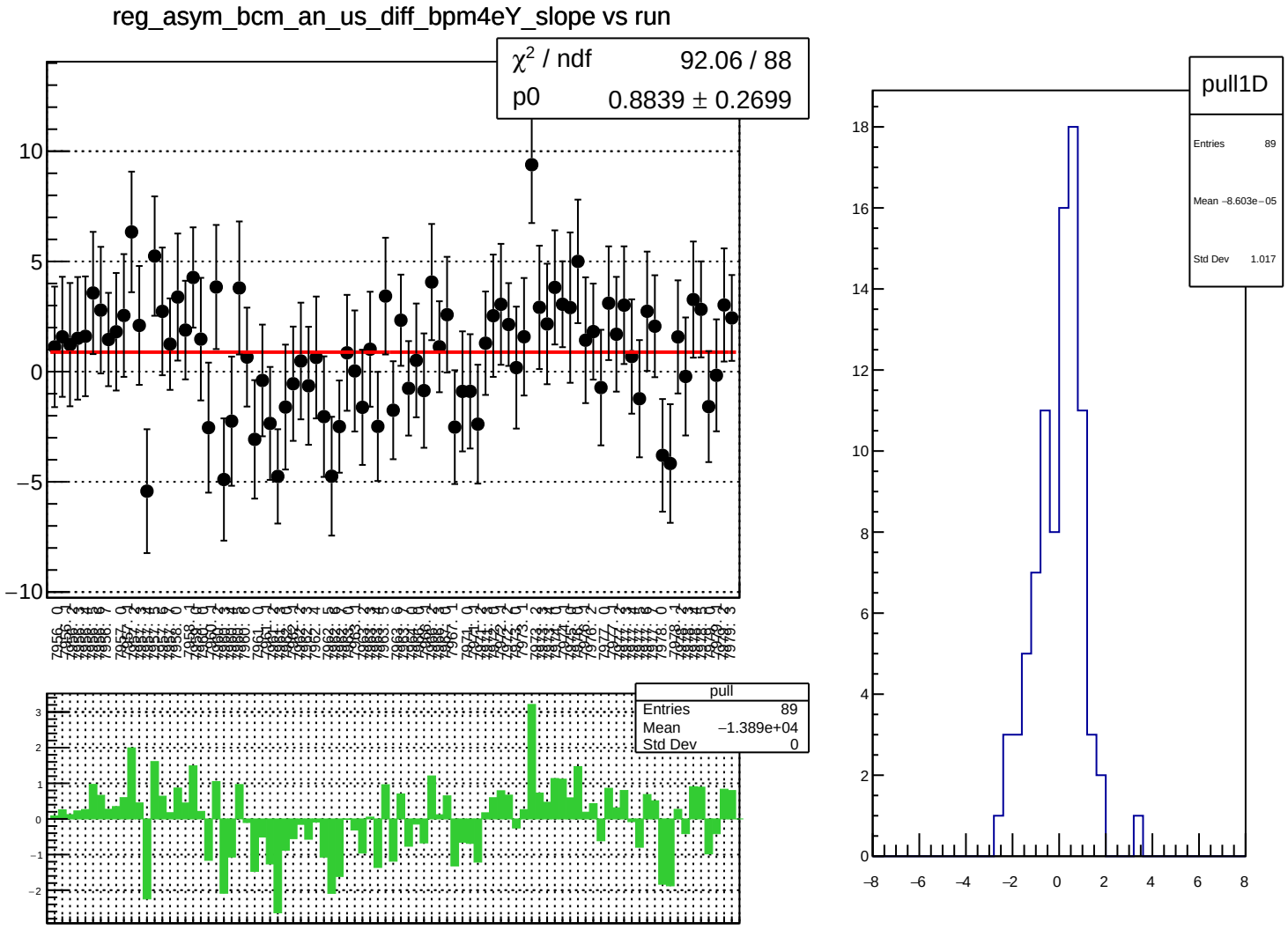

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 396.6 / 88
p0 7.258 ± 0.2272
pull
Entries 89
Mean −118.4
Std Dev 0

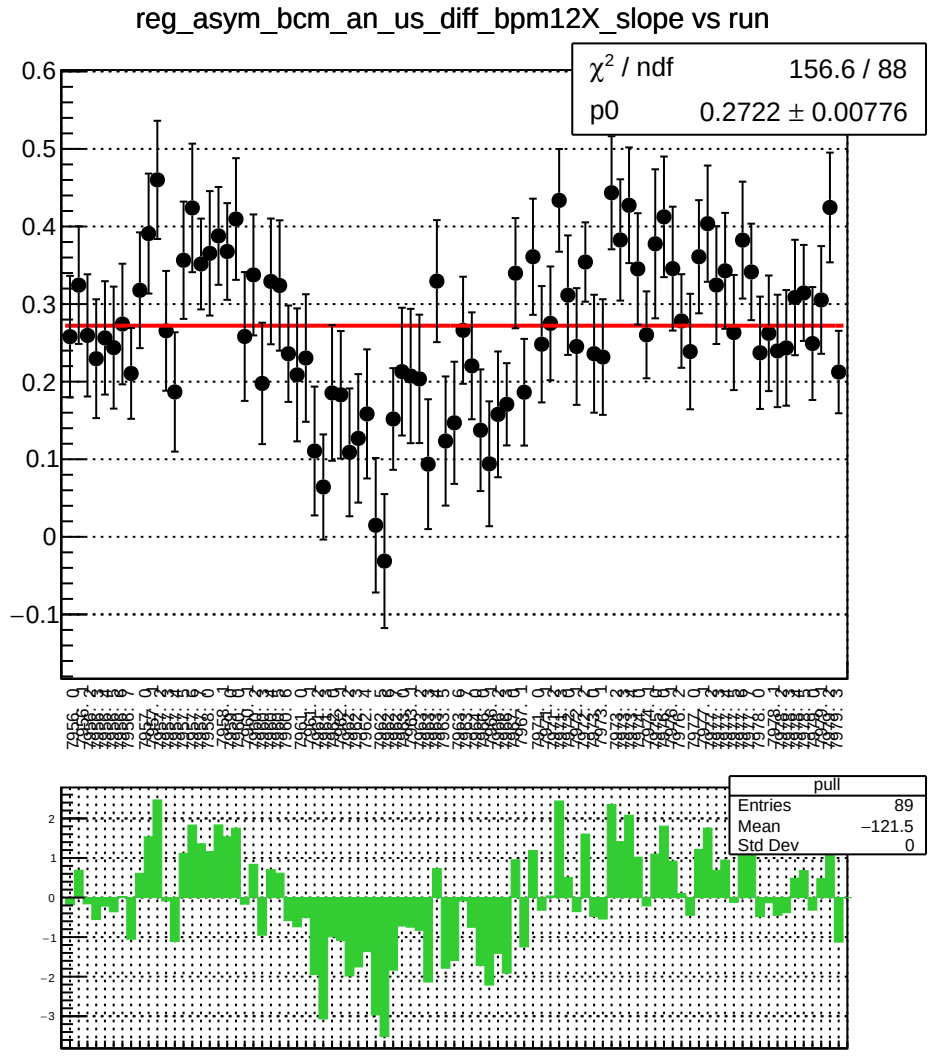

pull1D
Entries 89
Mean 0.06233
Std Dev 2.11

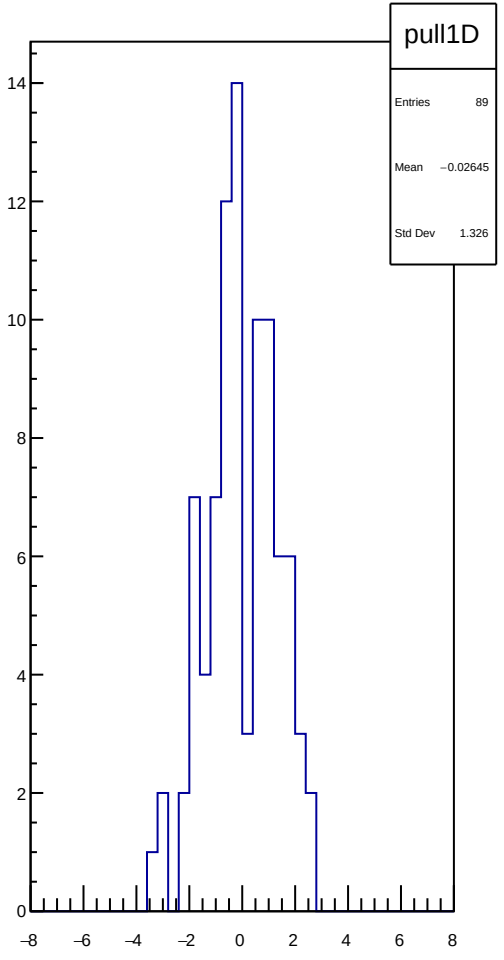

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 93.83 / 88
p0 −1.535 ± 0.2357
pull
Entries 89
Mean −1368
Std Dev 0
pull1D
Entries 89
Mean −0.001912
Std Dev 1.027

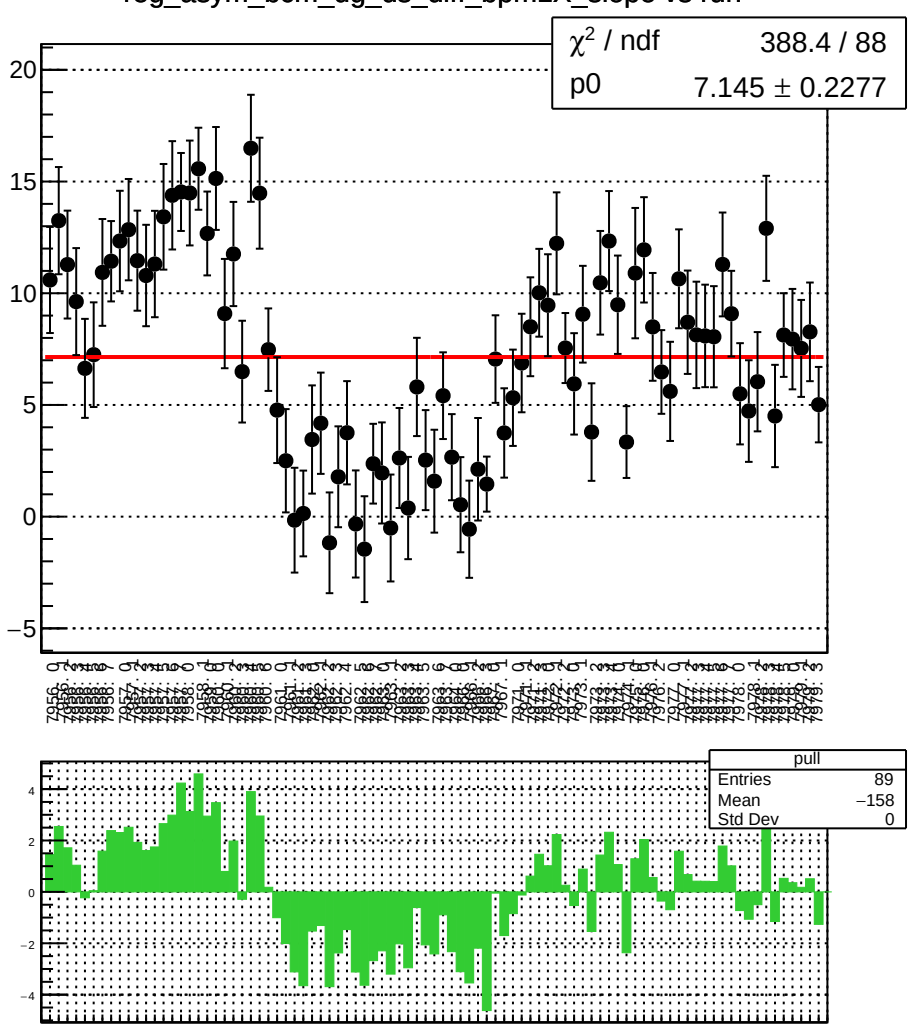

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 422.7 / 88
p0 −6.285 ± 0.2015
pull
Entries 89
Mean −52.25
Std Dev 0

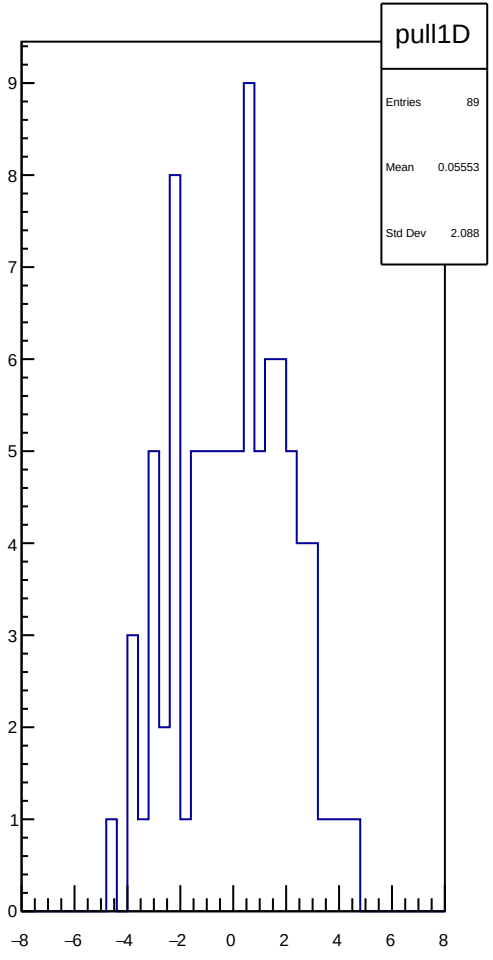

pull1D
Entries 89
Mean −0.106
Std Dev 2.177

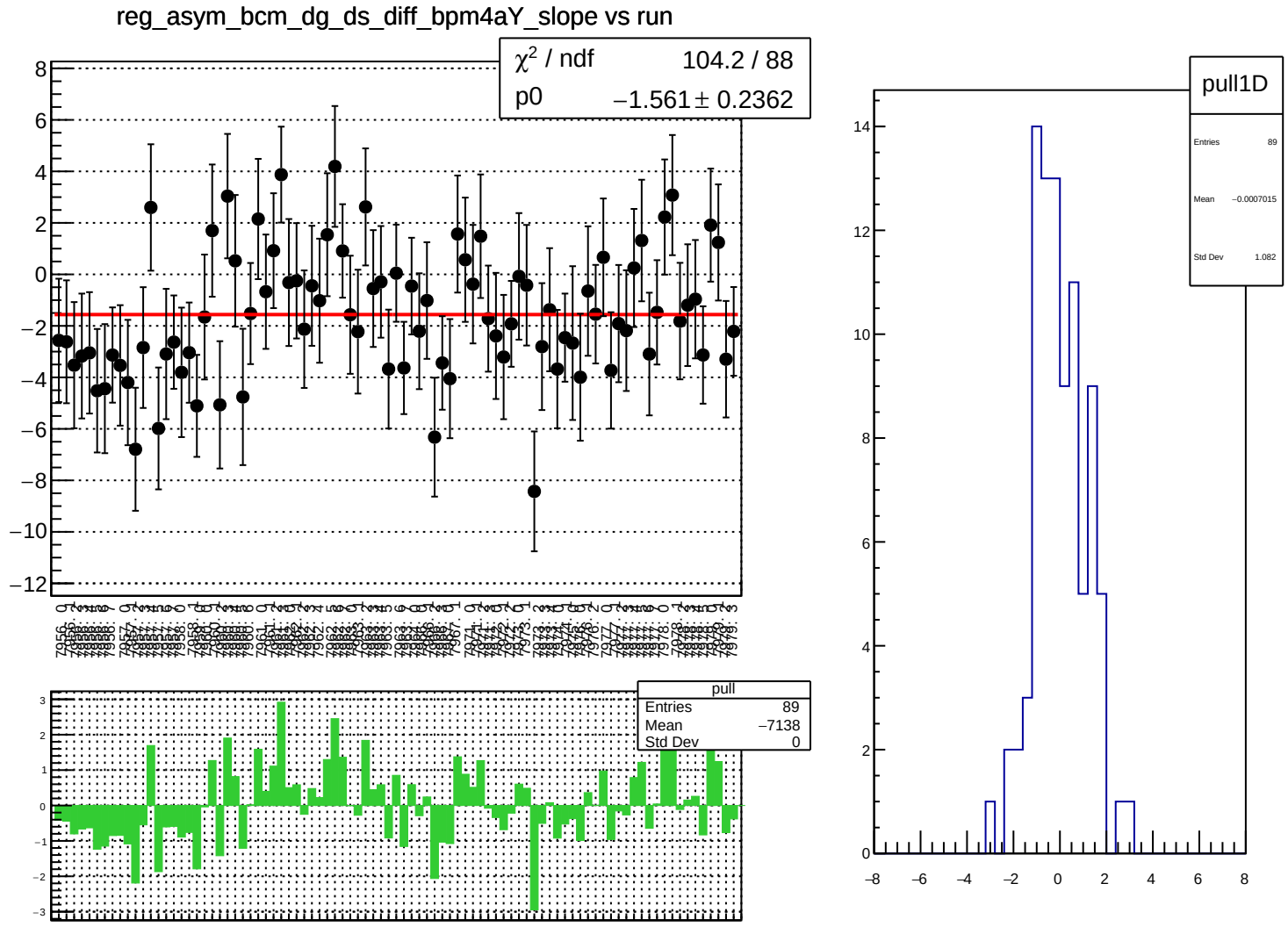

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 92.06 / 88
p0 0.8839 ± 0.2699
pull
Entries 89
Mean −1.389e+04
Std Dev 0
pull1D
Entries 89
Mean −8.603e−05
Std Dev 1.017

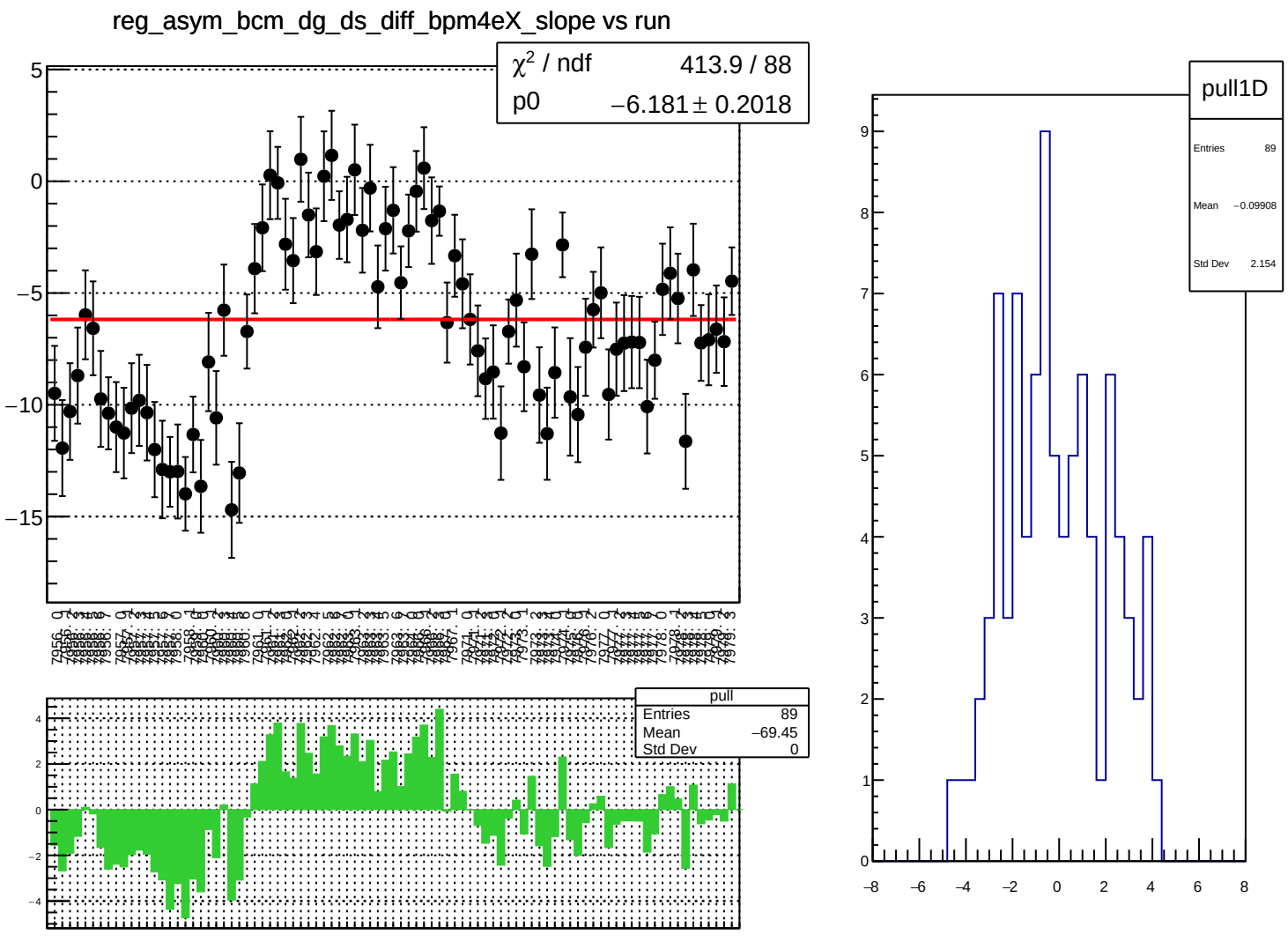

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 156.6 / 88
p0 0.2722 ± 0.00776
pull
Entries 89
Mean −121.5
Std Dev 0

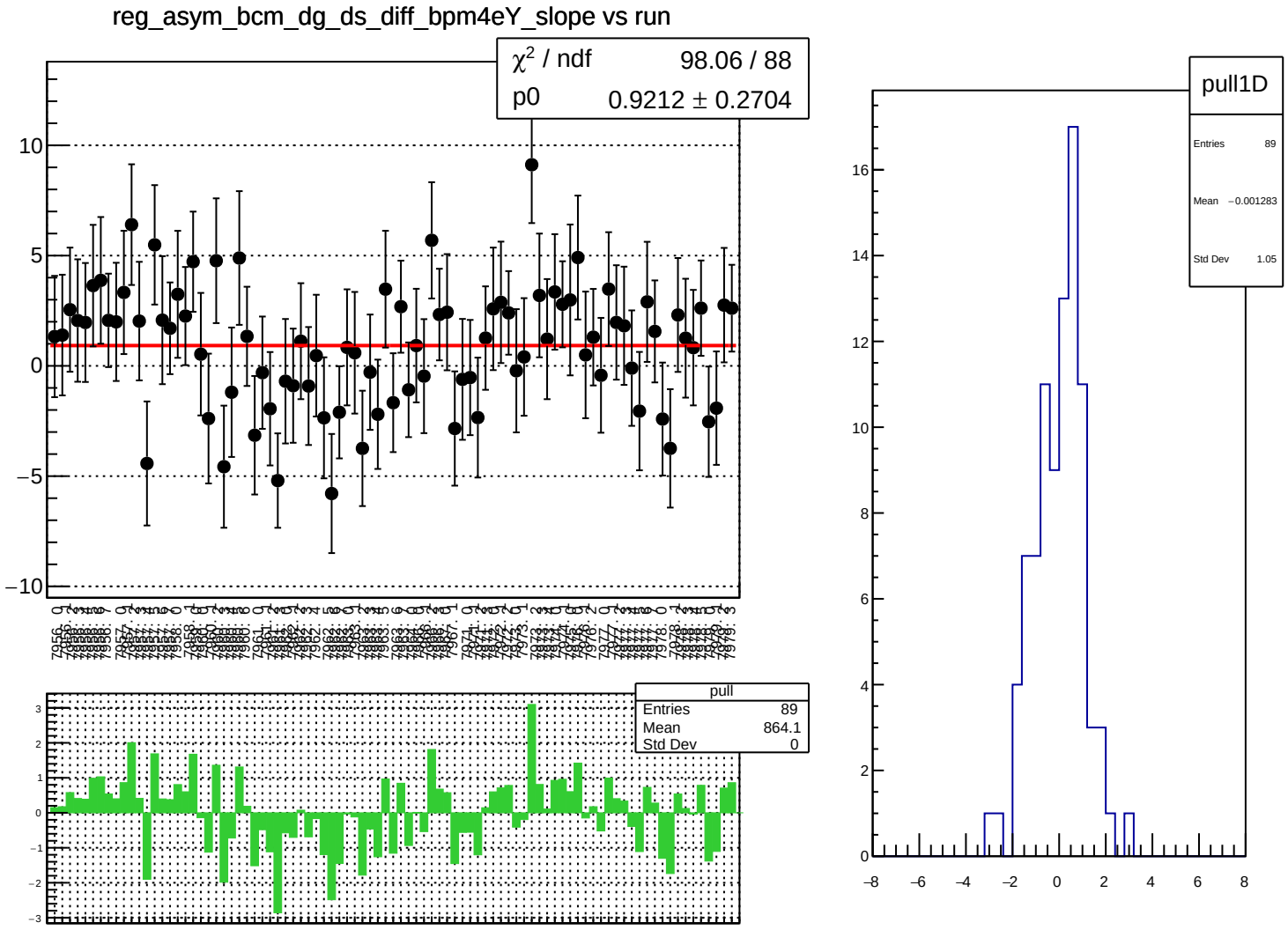

pull1D
Entries 89
Mean −0.02645
Std Dev 1.326

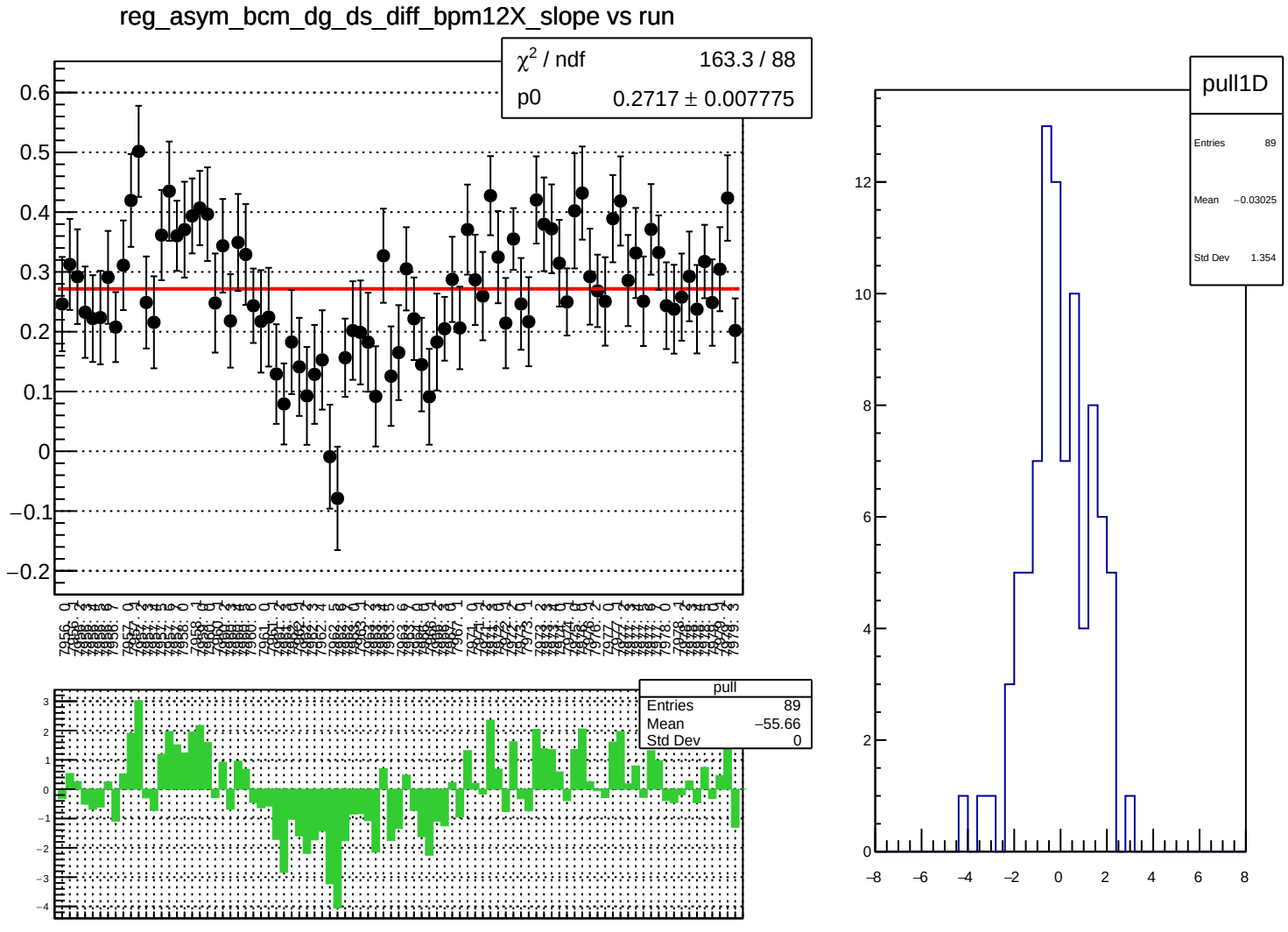

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 388.4 / 88
p0 7.145 ± 0.2277
pull
Entries 89
Mean −158
Std Dev 0

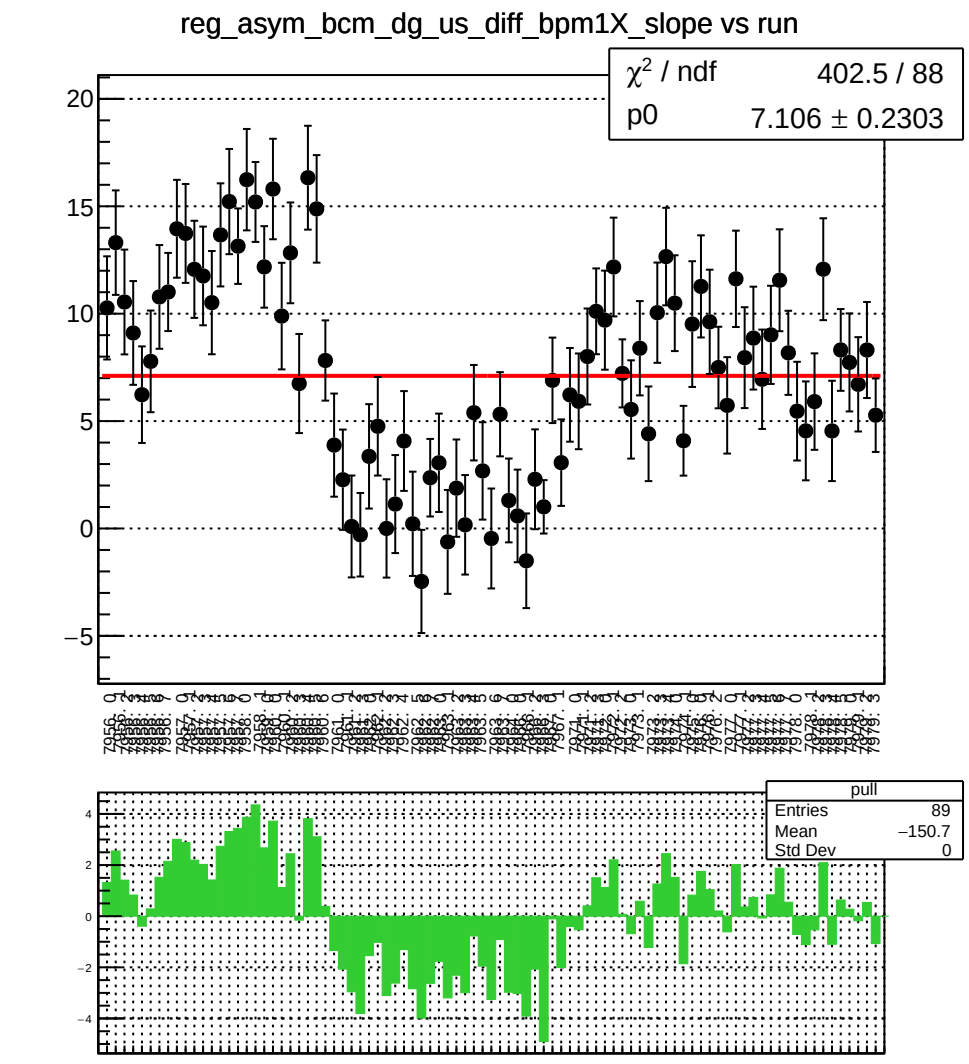

pull1D
Entries 89
Mean 0.05553
Std Dev 2.088

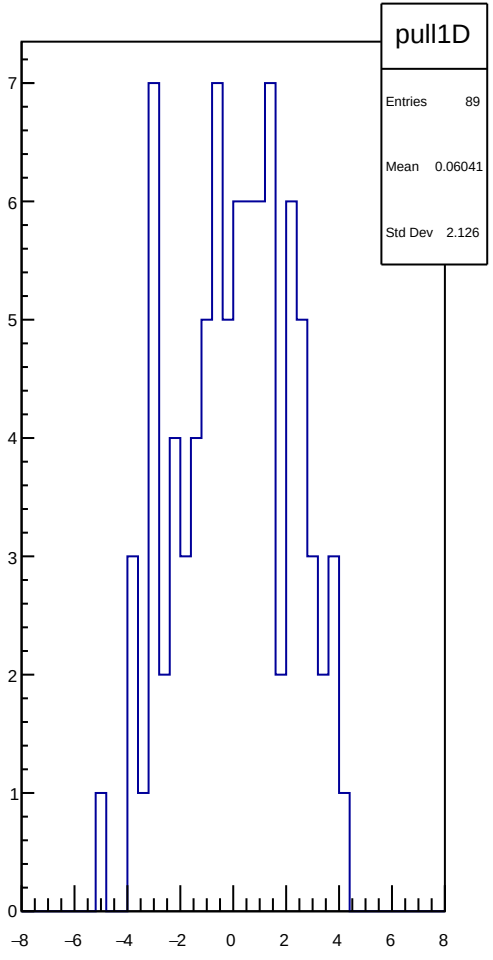

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 104.2 / 88
p0 −1.561 ± 0.2362
pull
Entries 89
Mean −7138
Std Dev 0
pull1D
Entries 89
Mean −0.0007015
Std Dev 1.082

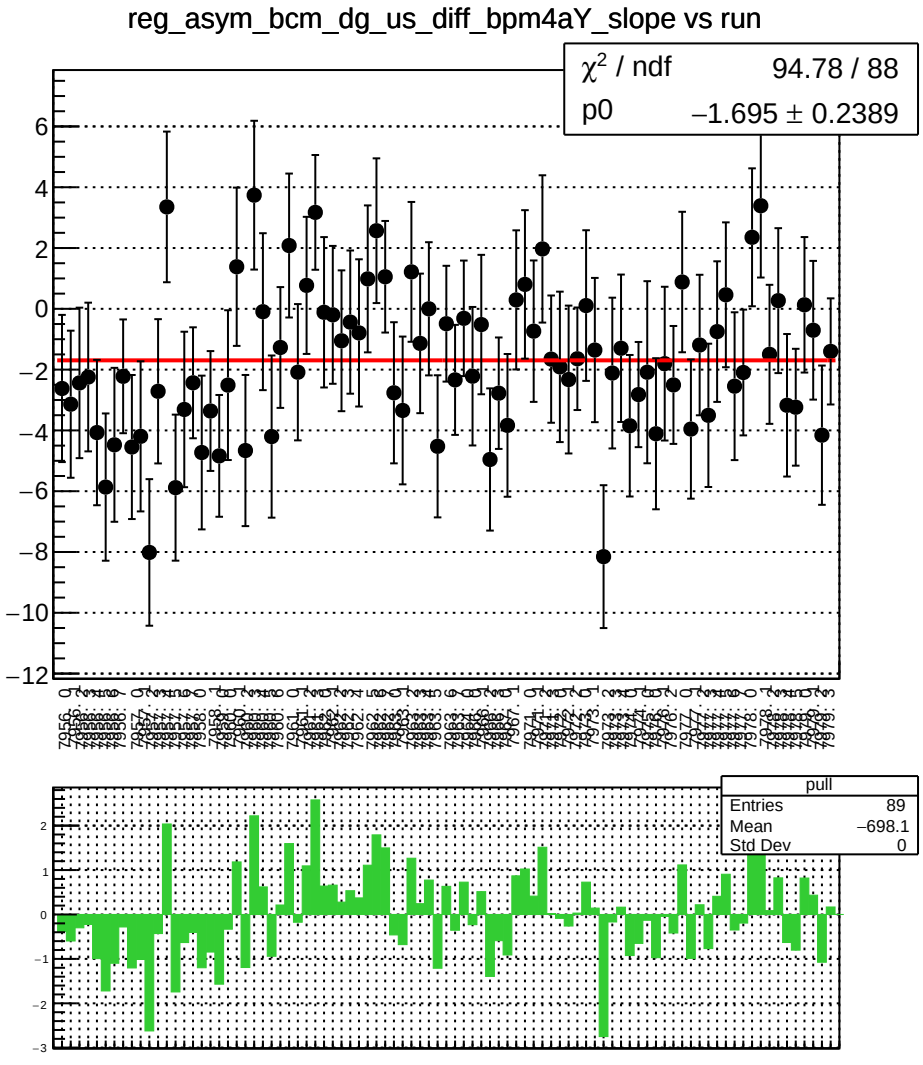

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 413.9 / 88
p0 −6.181 ± 0.2018
pull
Entries 89
Mean −69.45
Std Dev 0
pull1D
Entries 89
Mean −0.09908
Std Dev 2.154

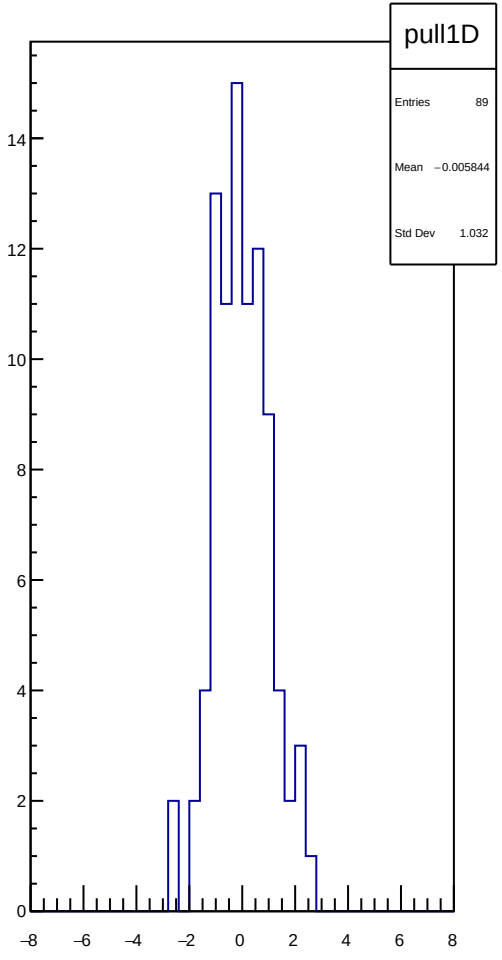

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 98.06 / 88
p0 0.9212 ± 0.2704
pull
Entries 89
Mean 864.1
Std Dev 0
pull1D
Entries 89
Mean −0.001283
Std Dev 1.05

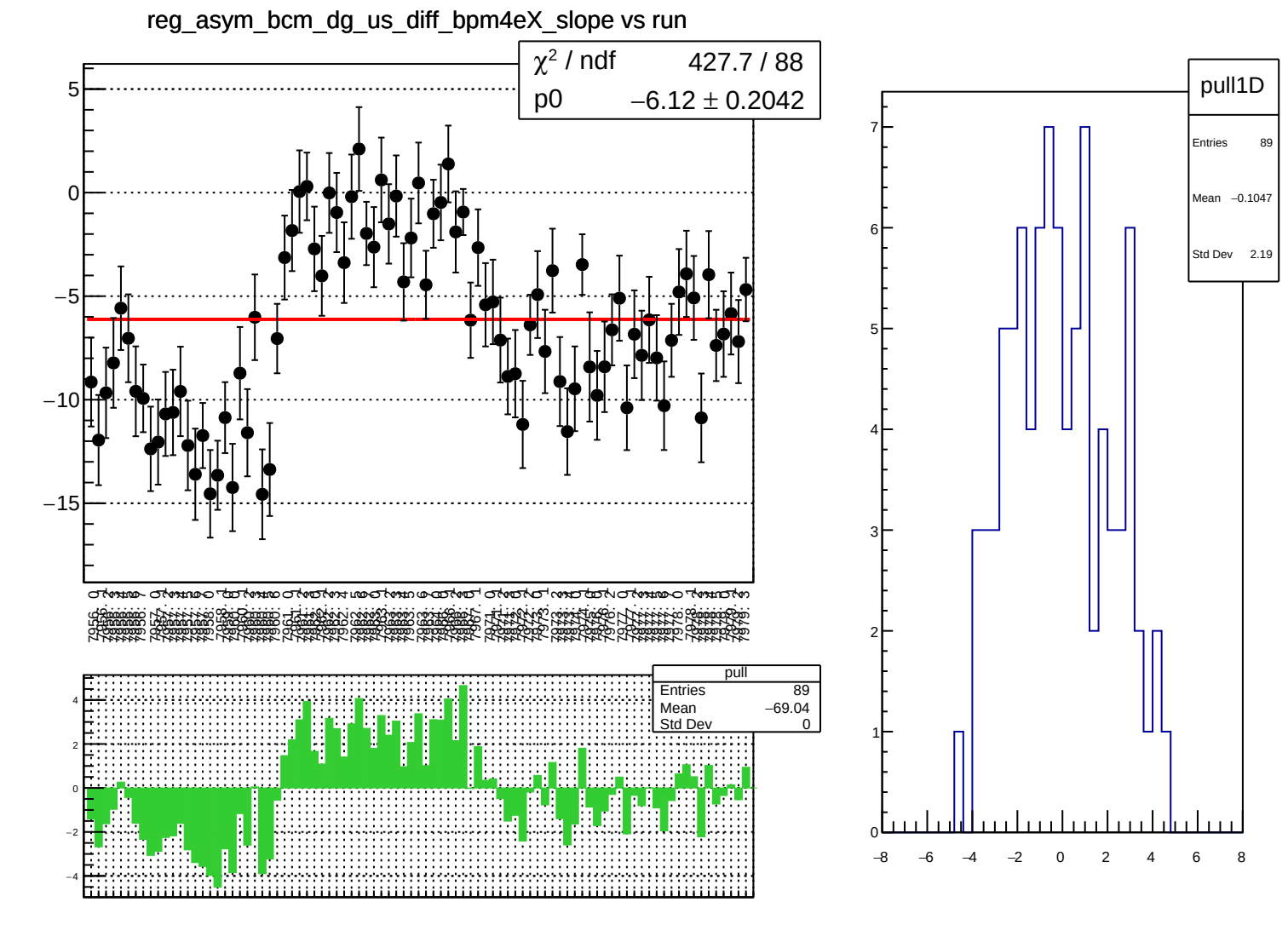

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 163.3 / 88
p0 0.2717 ± 0.007775
pull
Entries 89
Mean −55.66
Std Dev 0
pull1D
Entries 89
Mean −0.03025
Std Dev 1.354

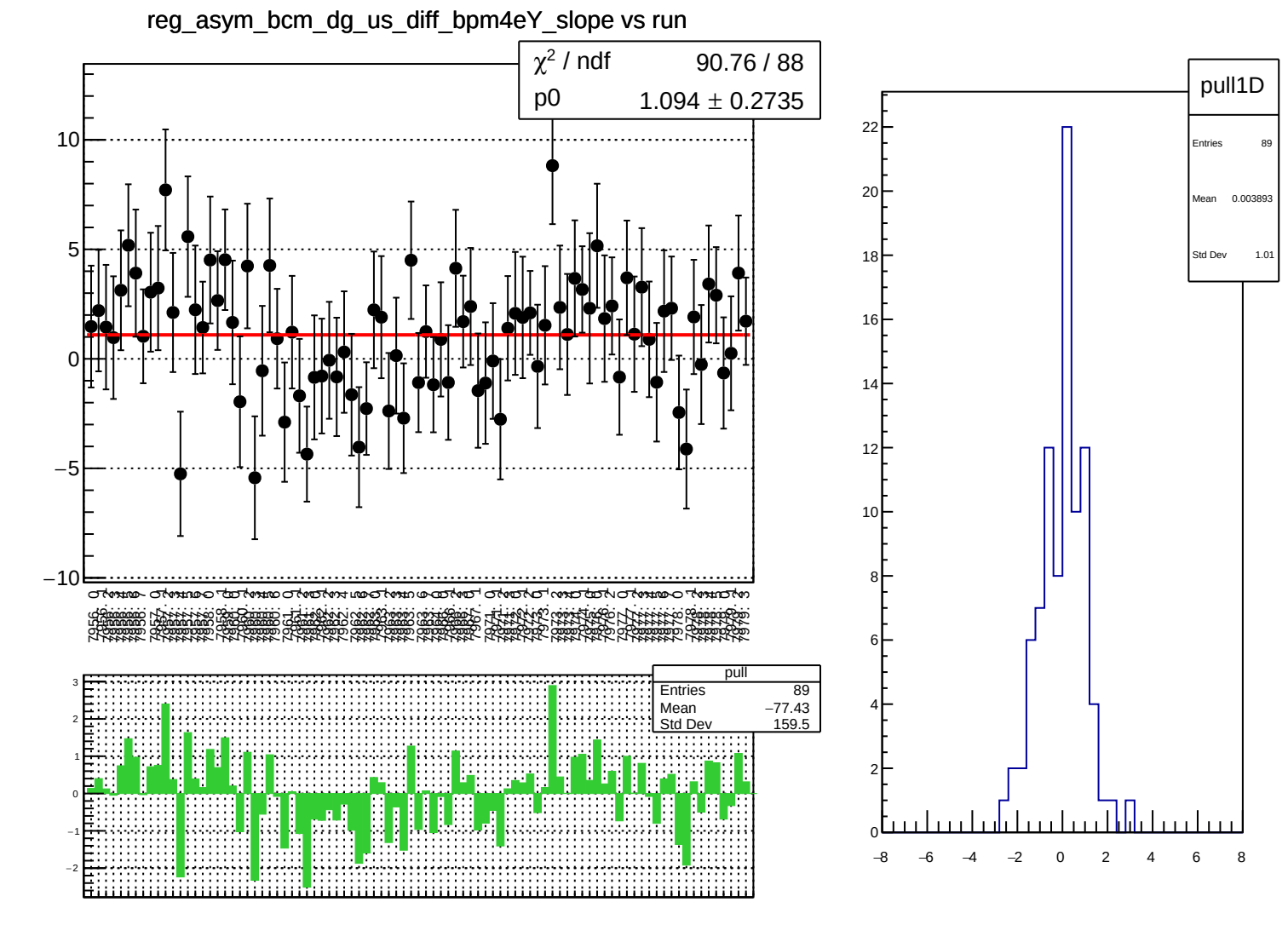

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 402.5 / 88
p0 7.106 ± 0.2303
pull
Entries 89
Mean −150.7
Std Dev 0

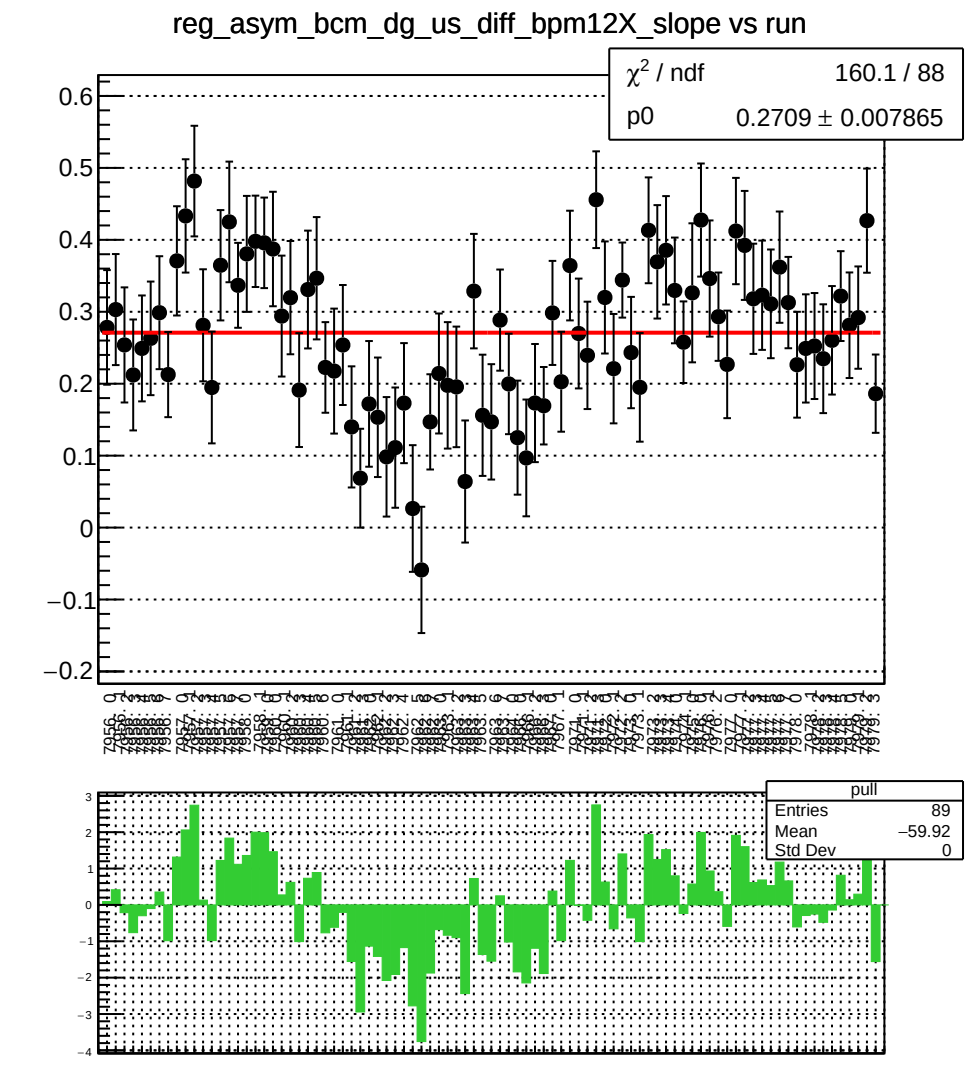

pull1D
Entries 89
Mean 0.06041
Std Dev 2.126

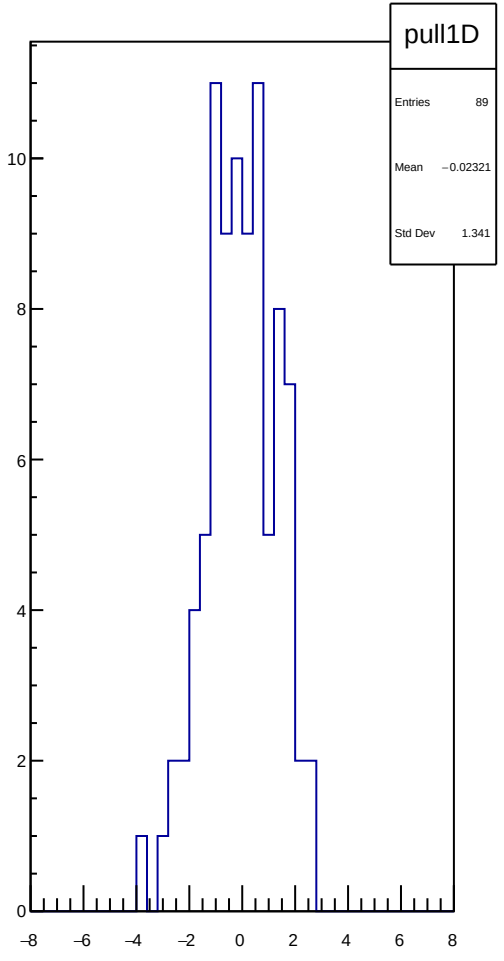

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 94.78 / 88
p0 −1.695 ± 0.2389
pull
Entries 89
Mean −698.1
Std Dev 0

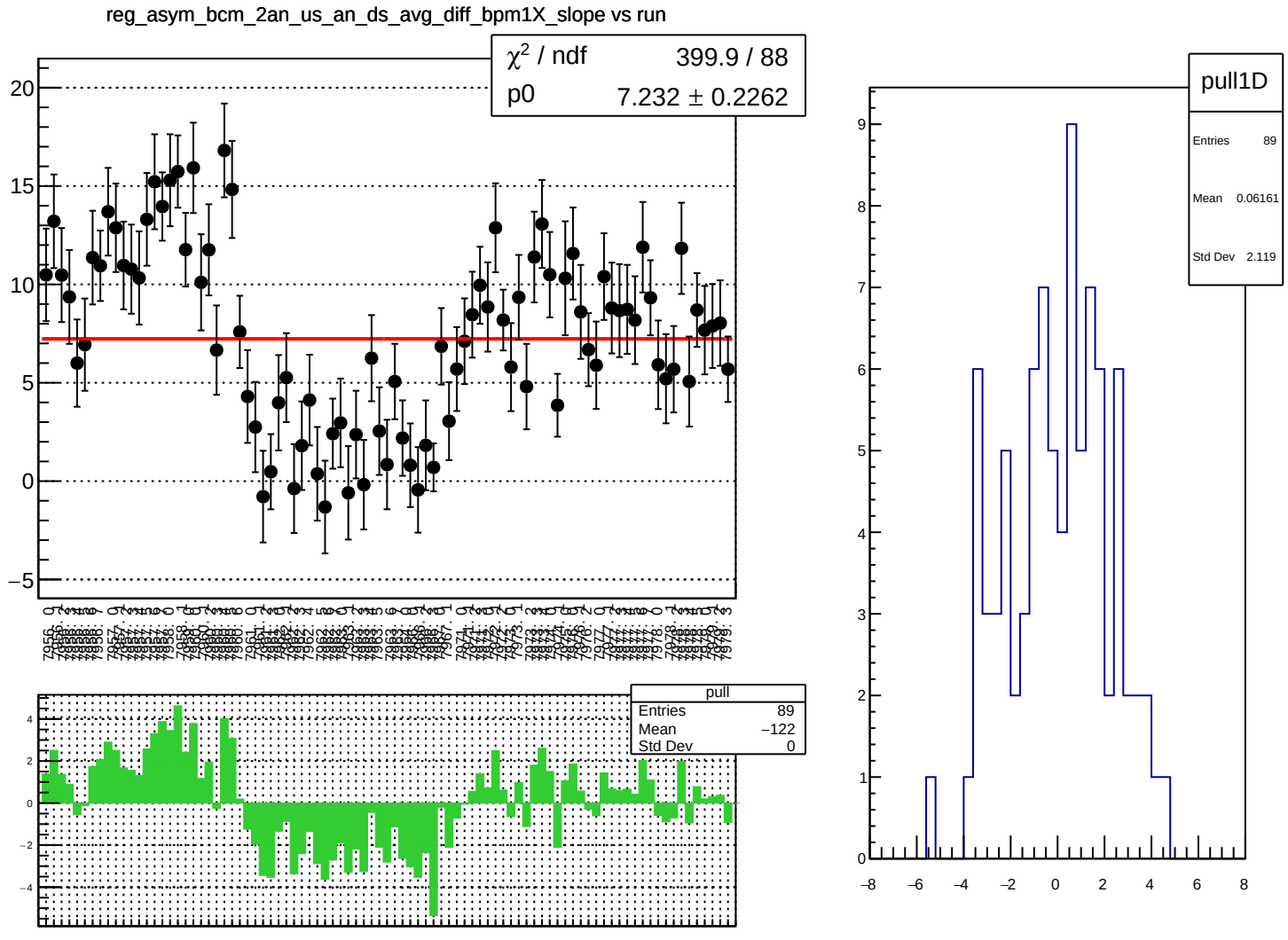

pull1D
Entries 89
Mean −0.005844
Std Dev 1.032

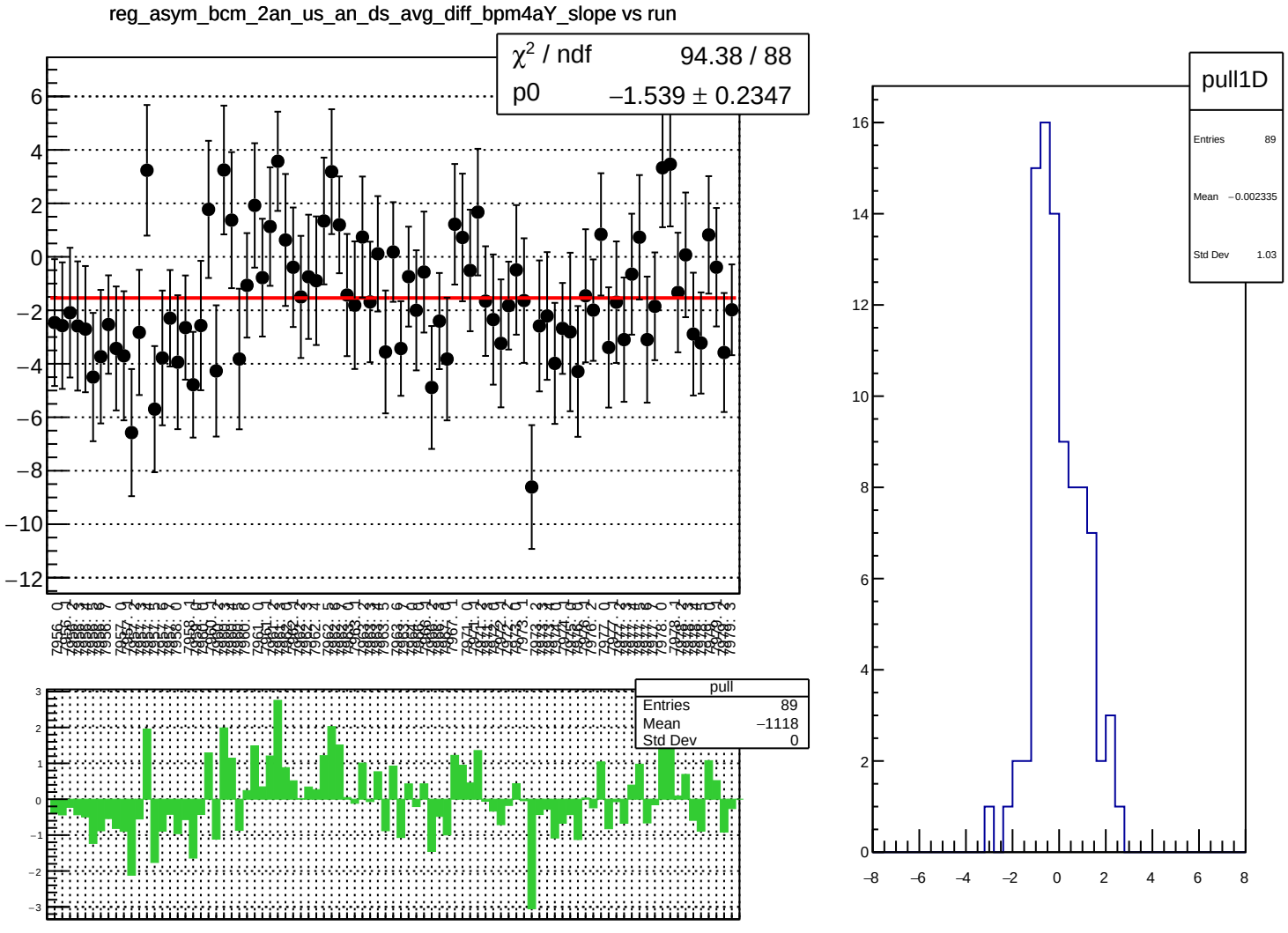

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 427.7 / 88
p0 −6.12 ± 0.2042
pull
Entries 89
Mean −69.04
Std Dev 0
pull1D
Entries 89
Mean −0.1047
Std Dev 2.19

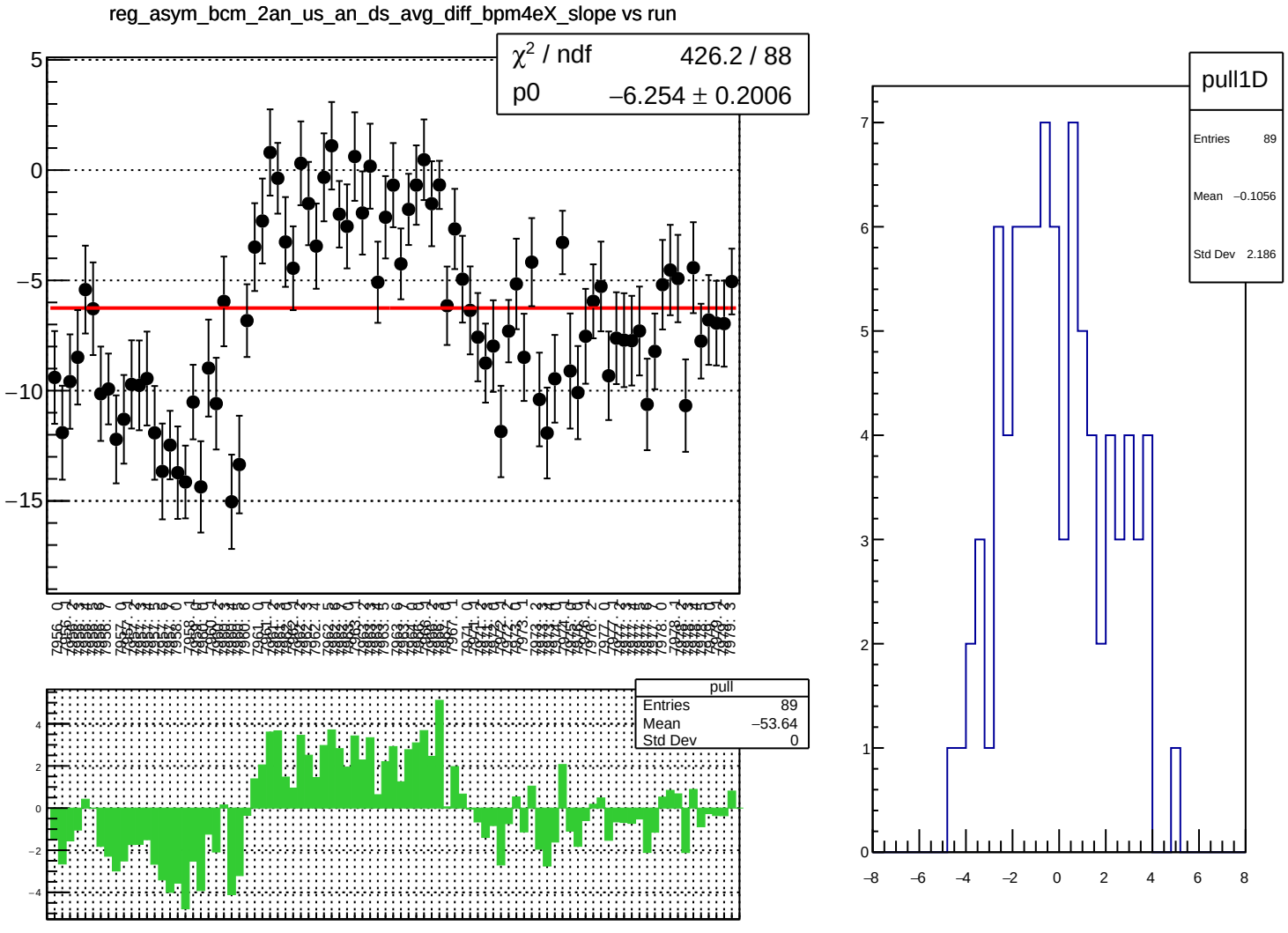

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 90.76 / 88
p0 1.094 ± 0.2735
pull
Entries 89
Mean −77.43
Std Dev 159.5
pull1D
Entries 89
Mean 0.003893
Std Dev 1.01

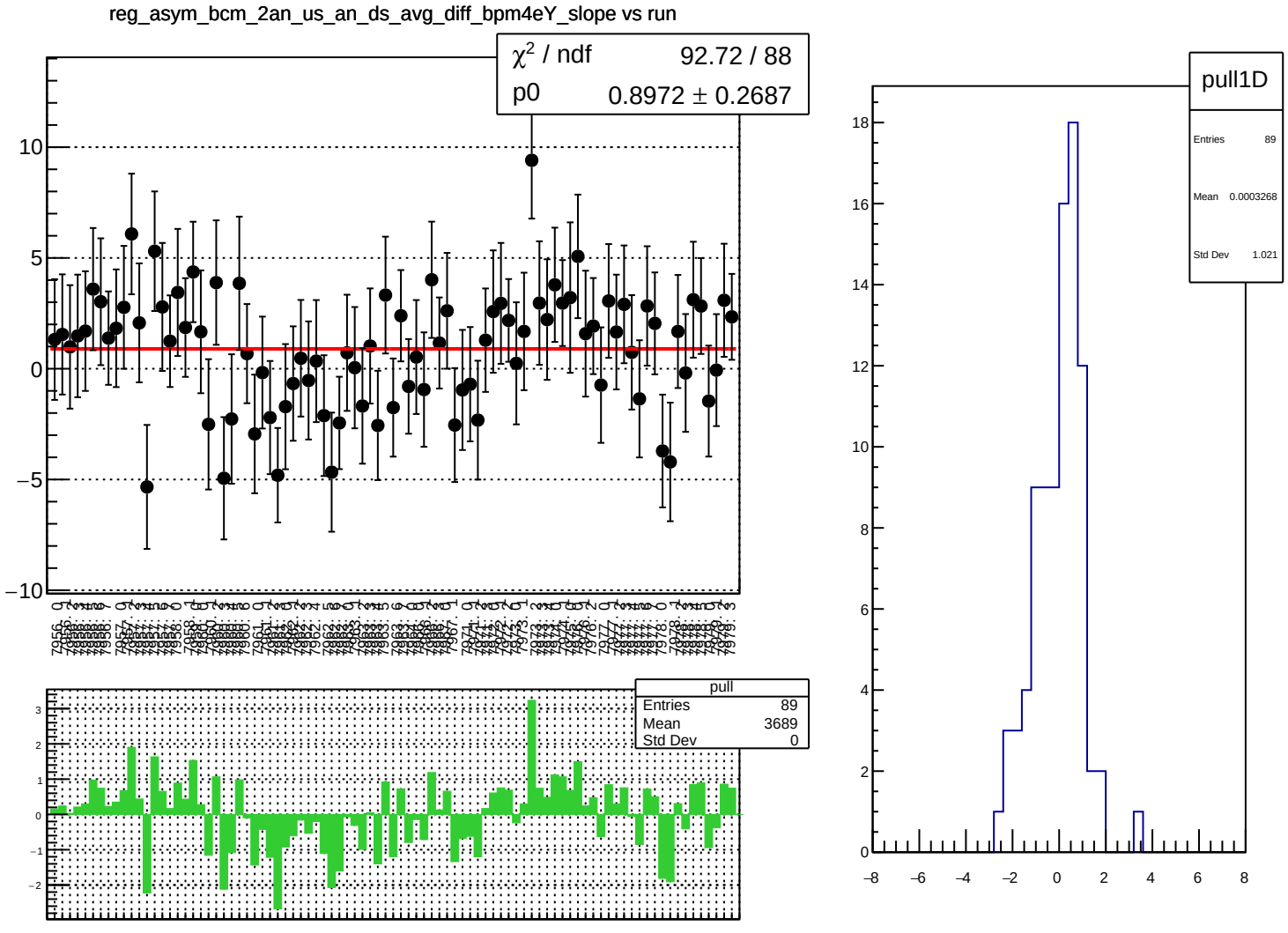

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 160.1 / 88
p0 0.2709 ± 0.007865
pull
Entries 89
Mean −59.92
Std Dev 0

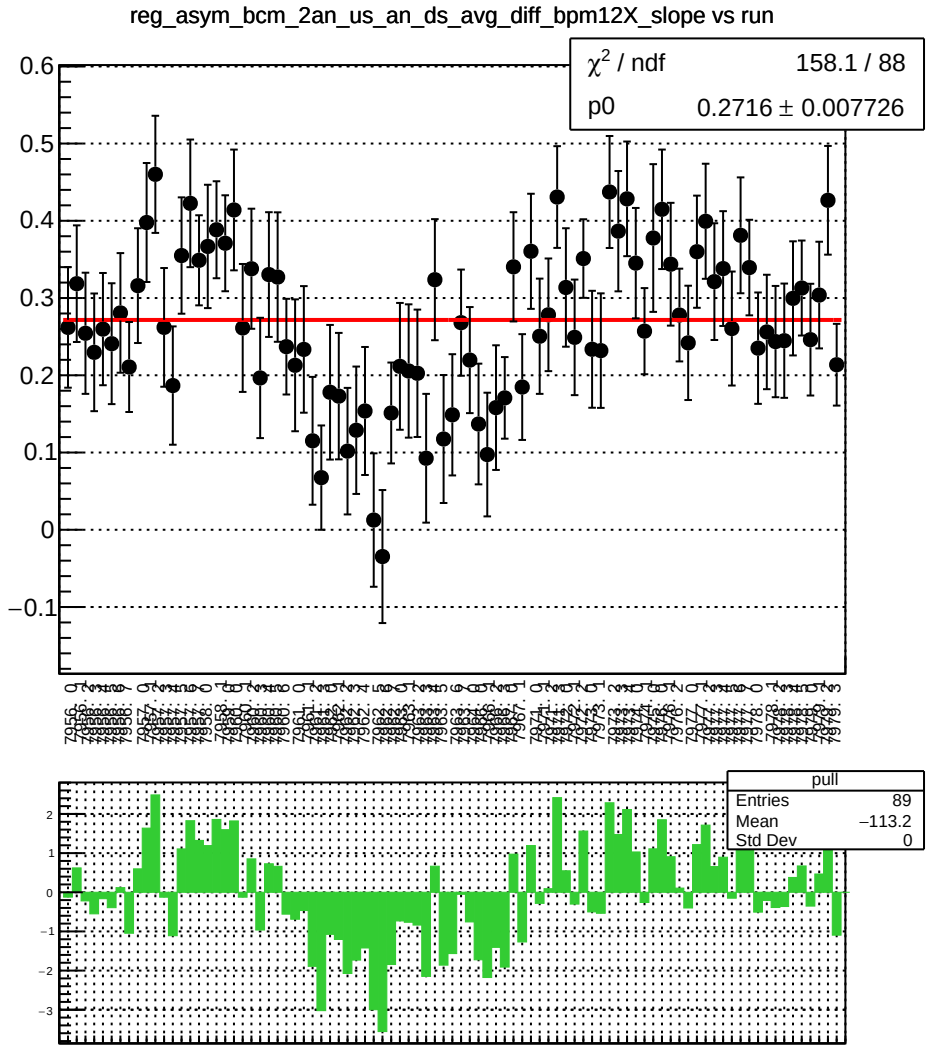

pull1D
Entries 89
Mean −0.02321
Std Dev 1.341

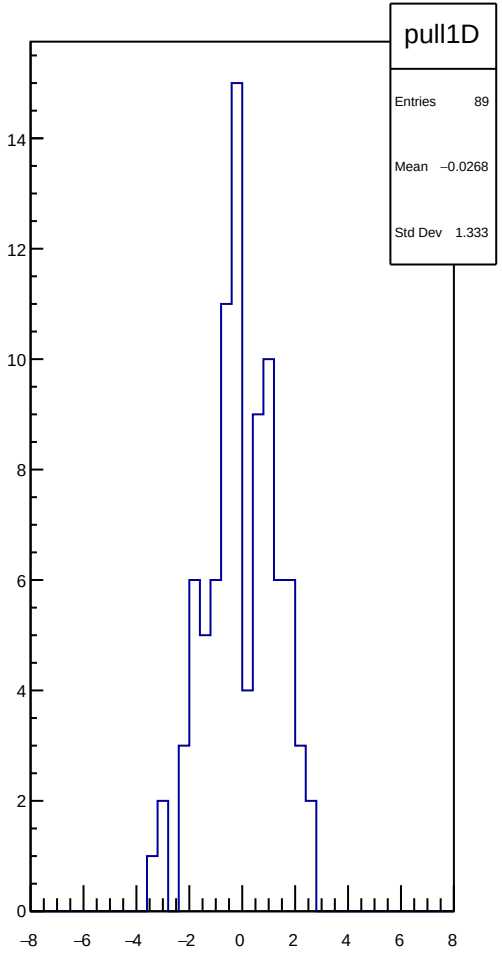

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 399.9 / 88
p0 7.232 ± 0.2262
pull
Entries 89
Mean −122
Std Dev 0
pull1D
Entries 89
Mean 0.06161
Std Dev 2.119

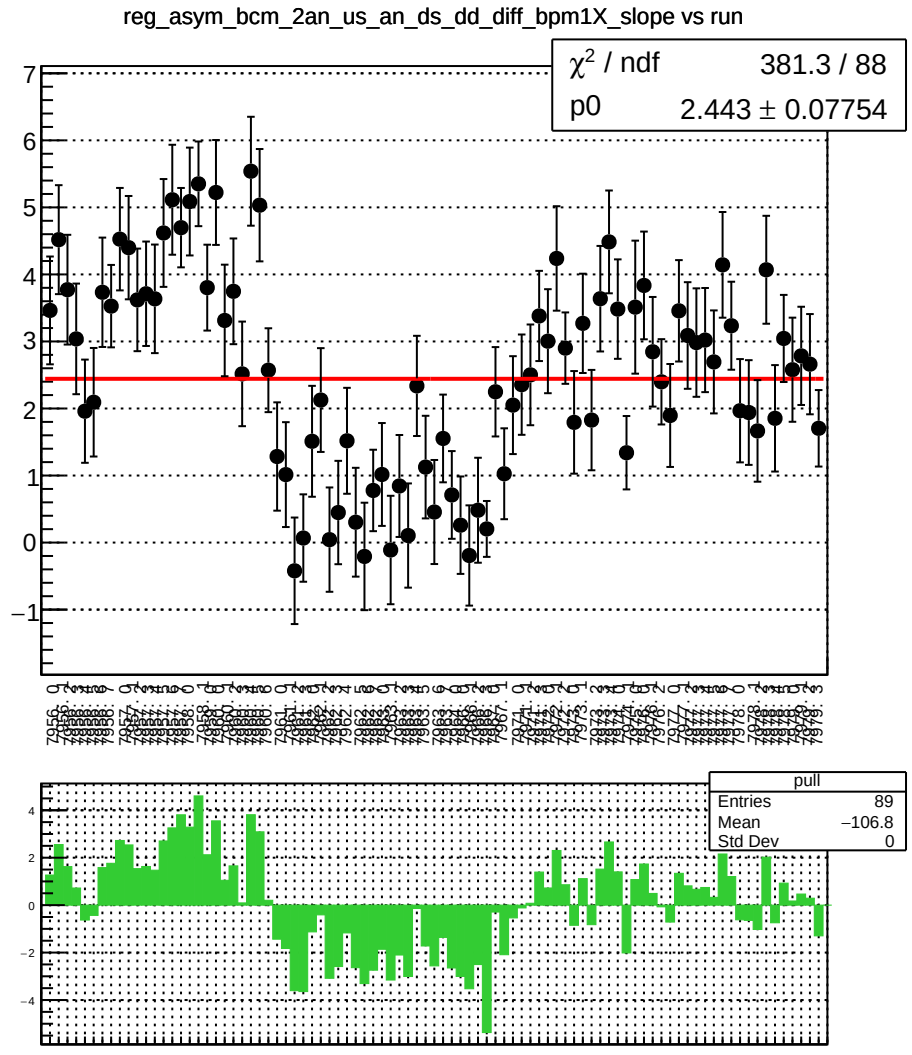

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 94.38 / 88
p0 −1.539 ± 0.2347
pull
Entries 89
Mean −1118
Std Dev 0
pull1D
Entries 89
Mean −0.002335
Std Dev 1.03

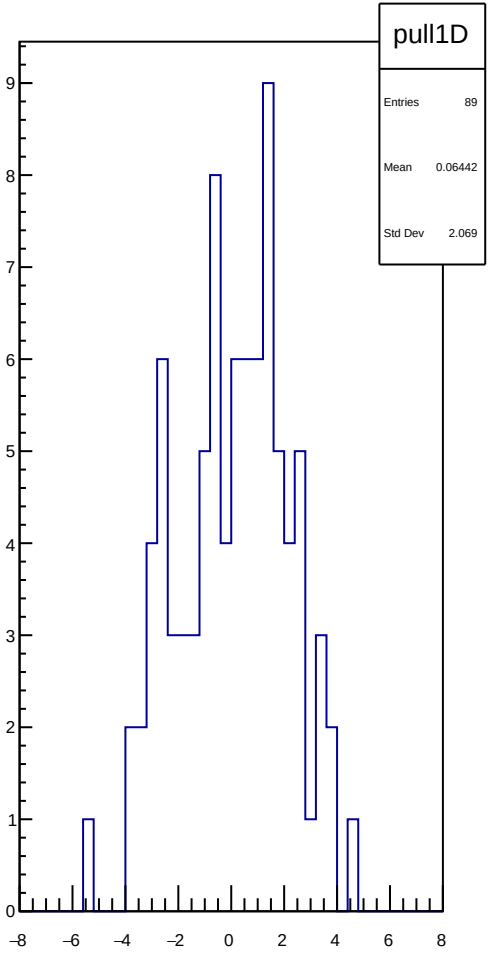

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 426.2 / 88
p0 −6.254 ± 0.2006
pull
Entries 89
Mean −53.64
Std Dev 0
pull1D
Entries 89
Mean −0.1056
Std Dev 2.186

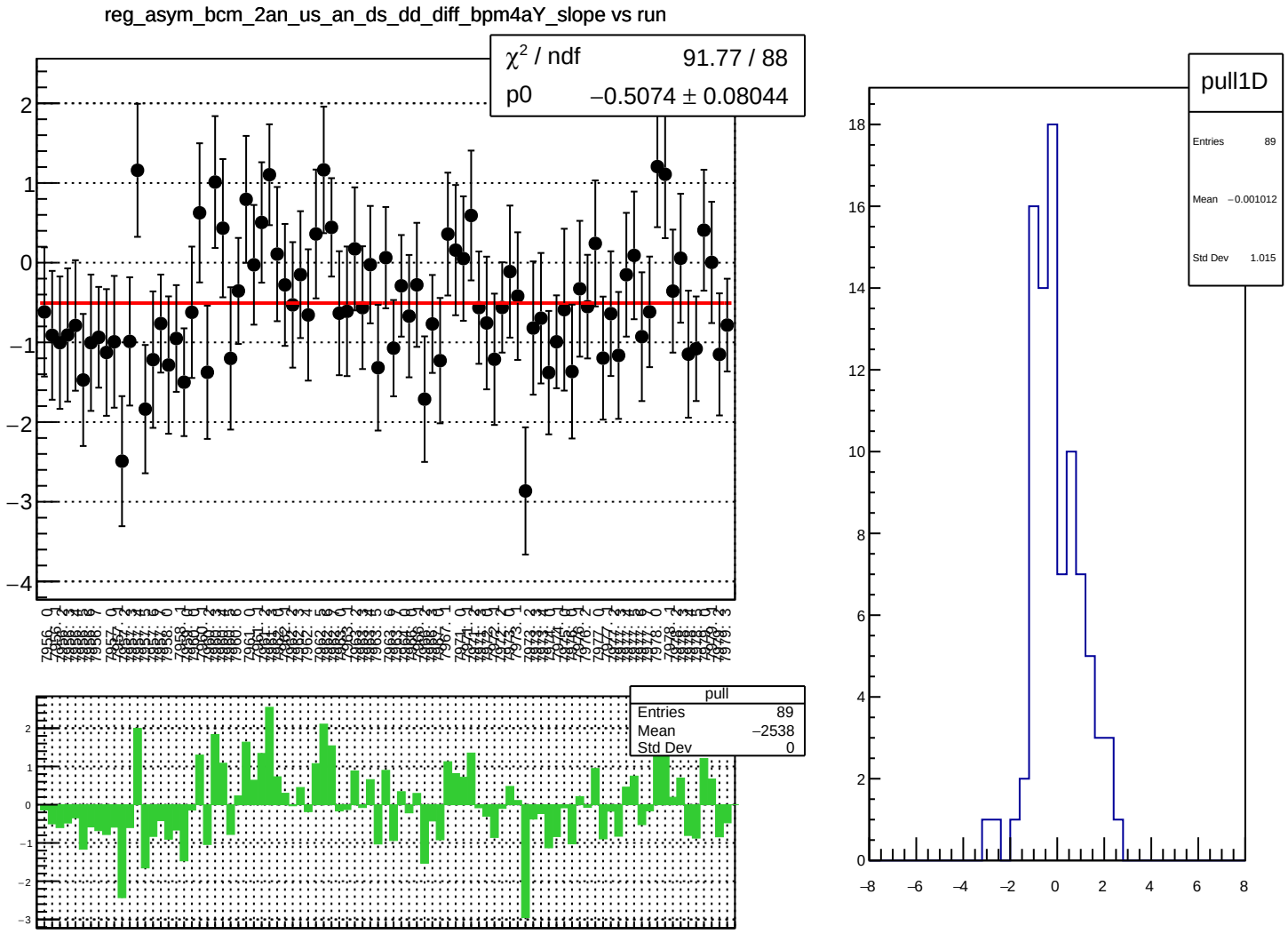

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 92.72 / 88
p0 0.8972 ± 0.2687
pull
Entries 89
Mean 3689
Std Dev 0
pull1D
Entries 89
Mean 0.0003268
Std Dev 1.021

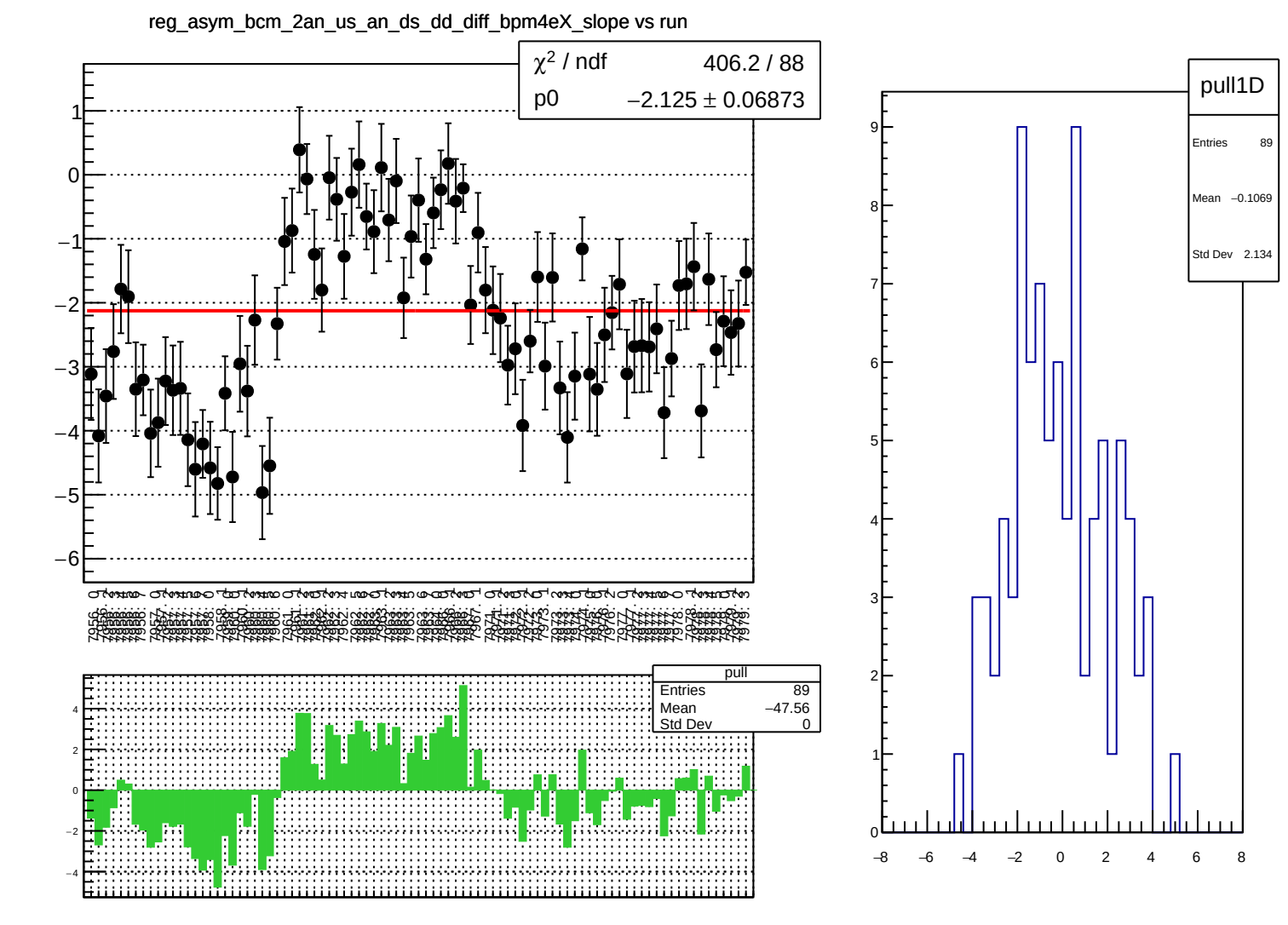

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 158.1 / 88
p0 0.2716 ± 0.007726
pull
Entries 89
Mean −113.2
Std Dev 0

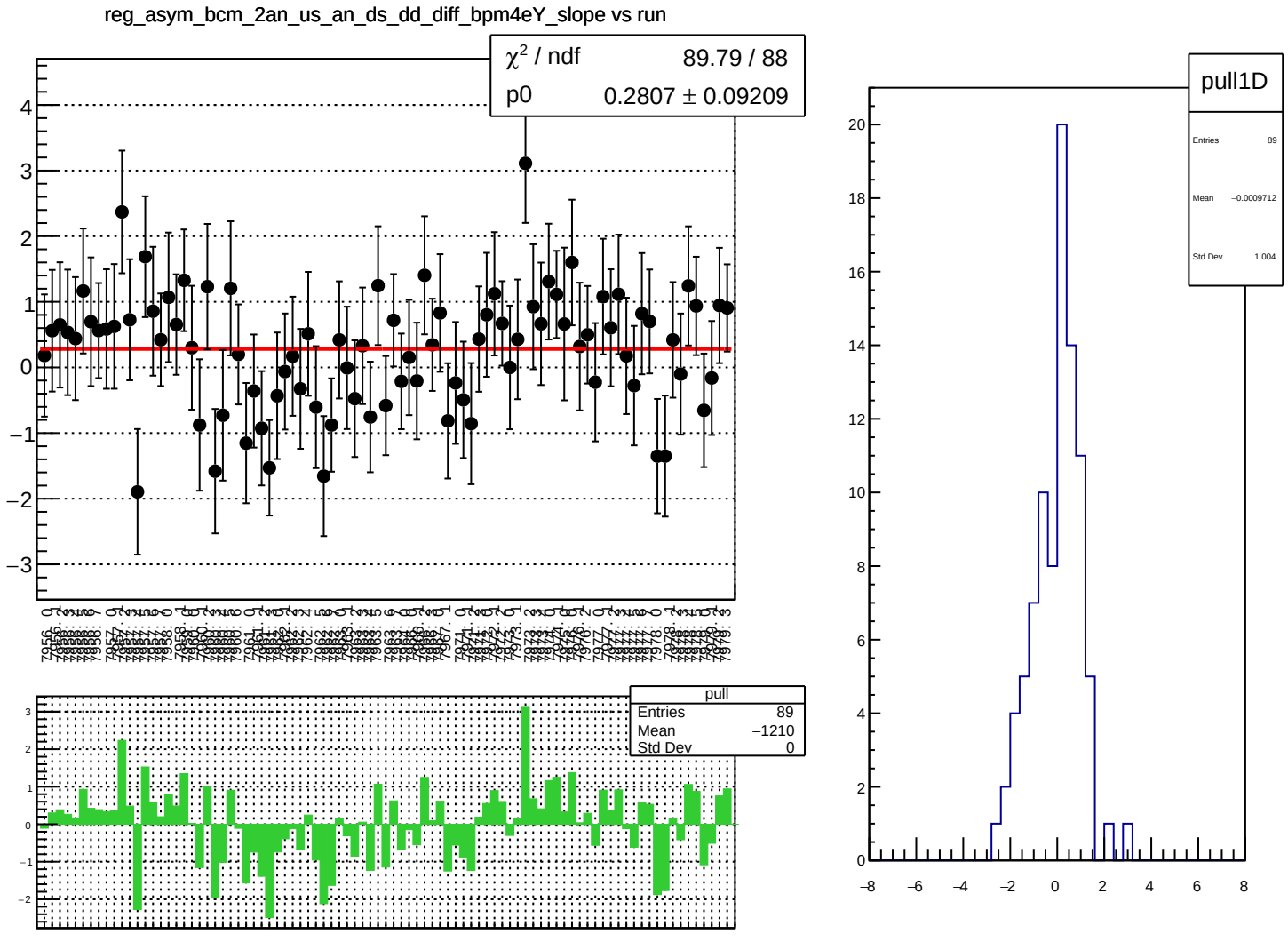

pull1D
Entries 89
Mean −0.0268
Std Dev 1.333

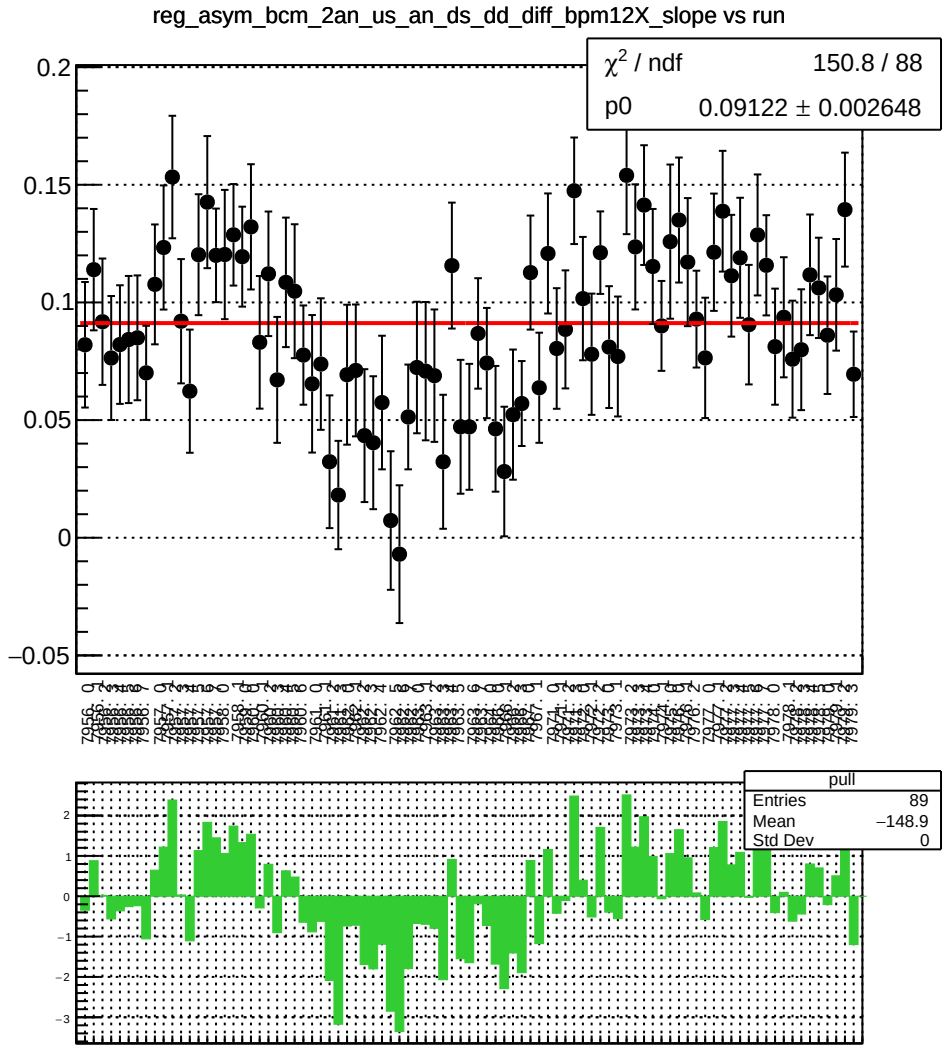

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 381.3 / 88
p0 2.443 ± 0.07754
pull
Entries 89
Mean −106.8
Std Dev 0

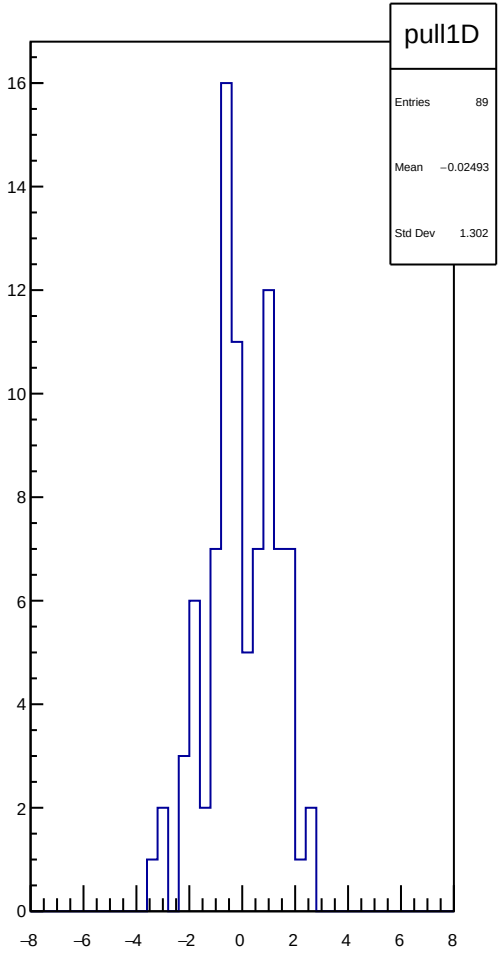

pull1D
Entries 89
Mean 0.06442
Std Dev 2.069

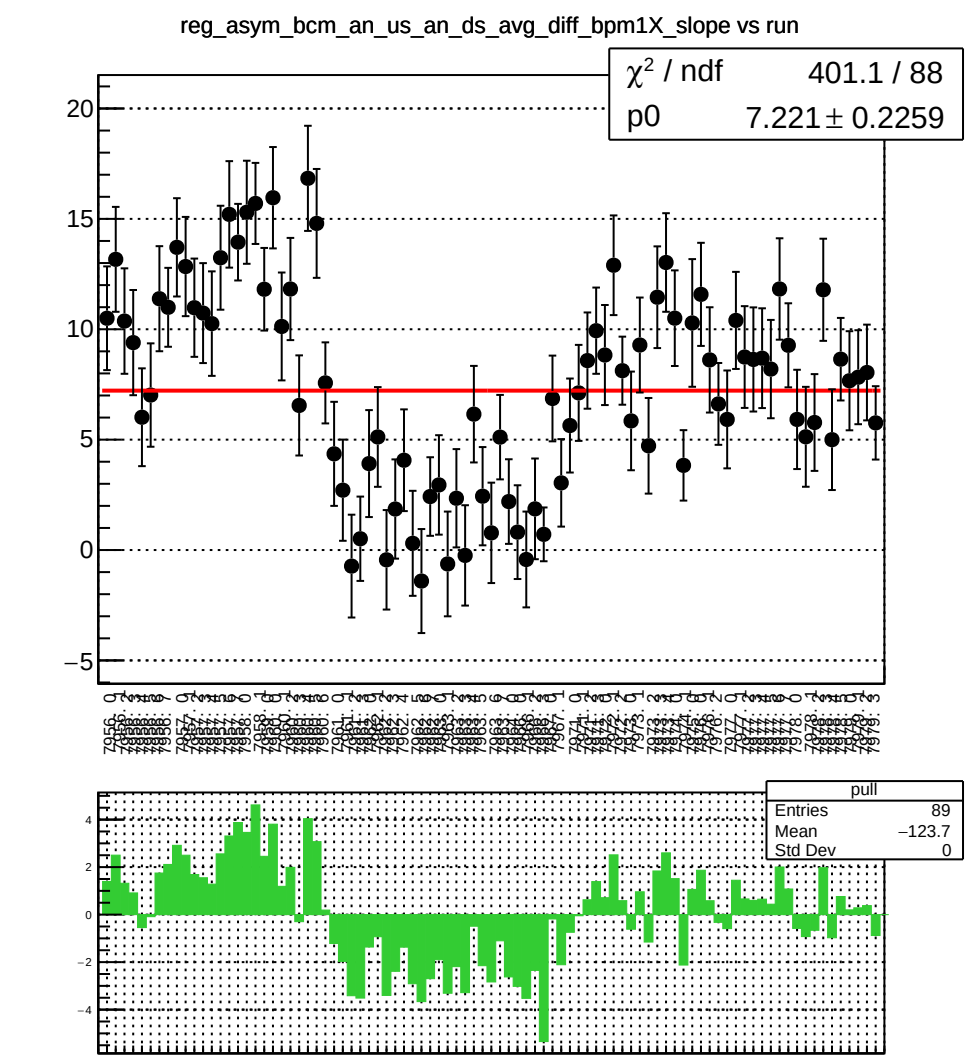

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.77 / 88
p0 −0.5074 ± 0.08044
pull
Entries 89
Mean −2538
Std Dev 0
pull1D
Entries 89
Mean −0.001012
Std Dev 1.015

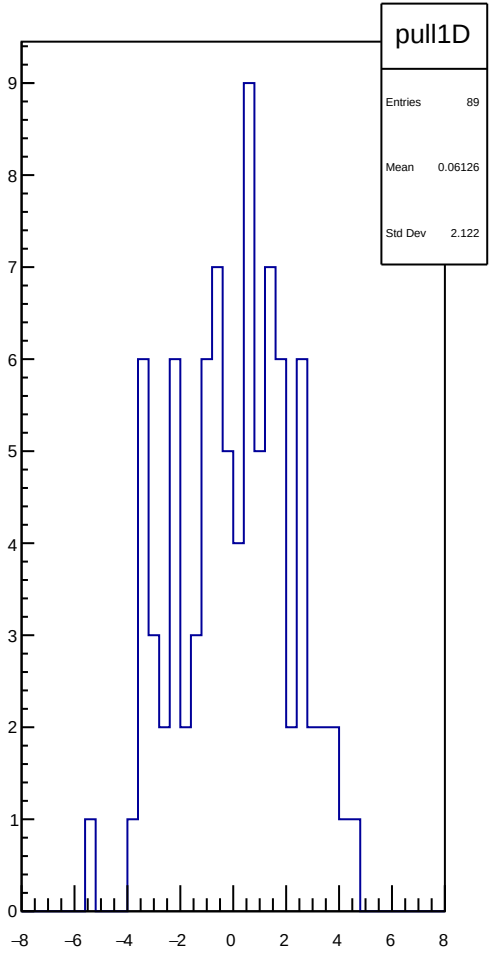

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 406.2 / 88
p0 −2.125 ± 0.06873
pull
Entries 89
Mean −47.56
Std Dev 0
pull1D
Entries 89
Mean −0.1069
Std Dev 2.134

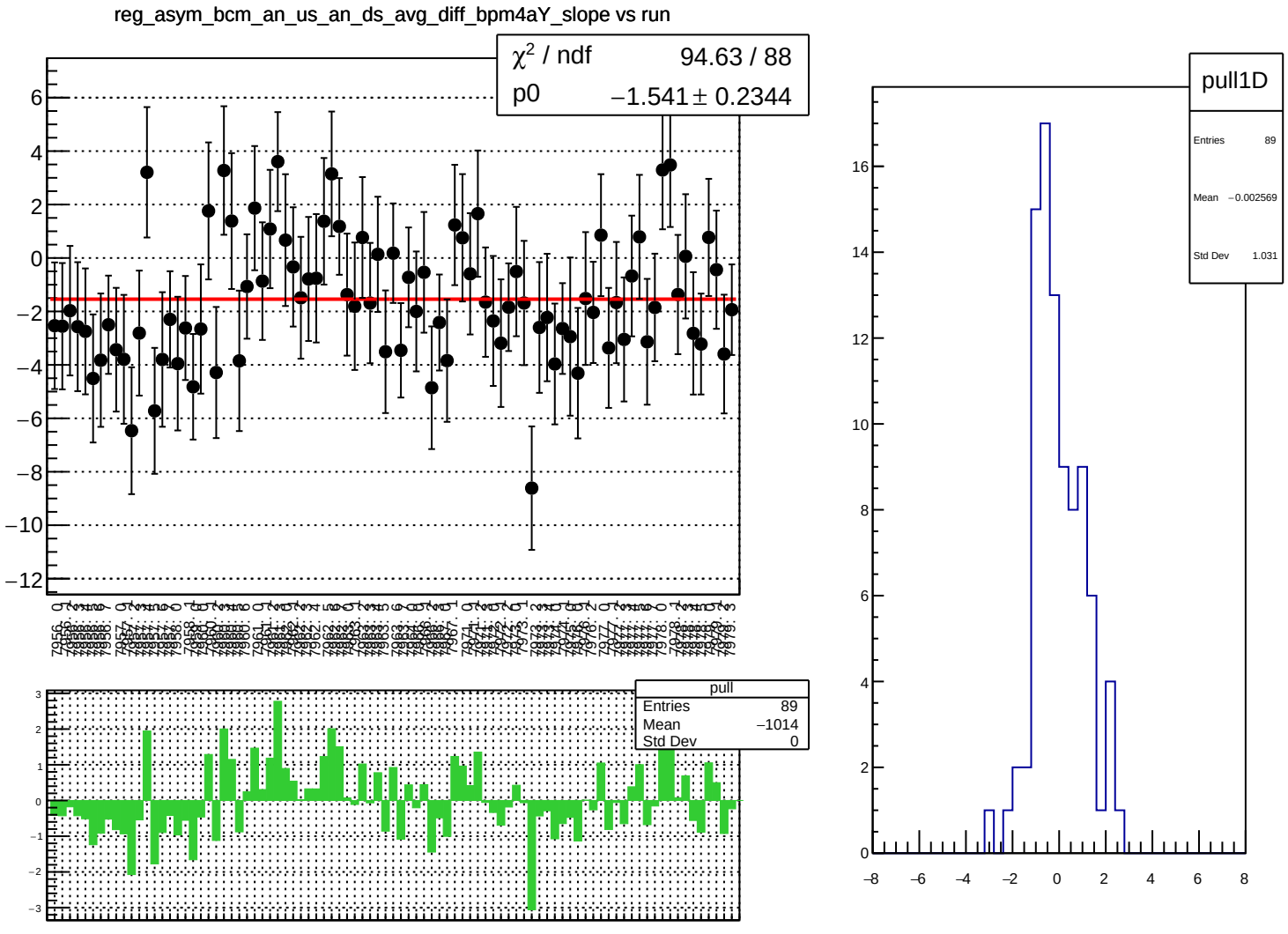

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.79 / 88
p0 0.2807 ± 0.09209
pull
Entries 89
Mean −1210
Std Dev 0
pull1D
Entries 89
Mean −0.0009712
Std Dev 1.004

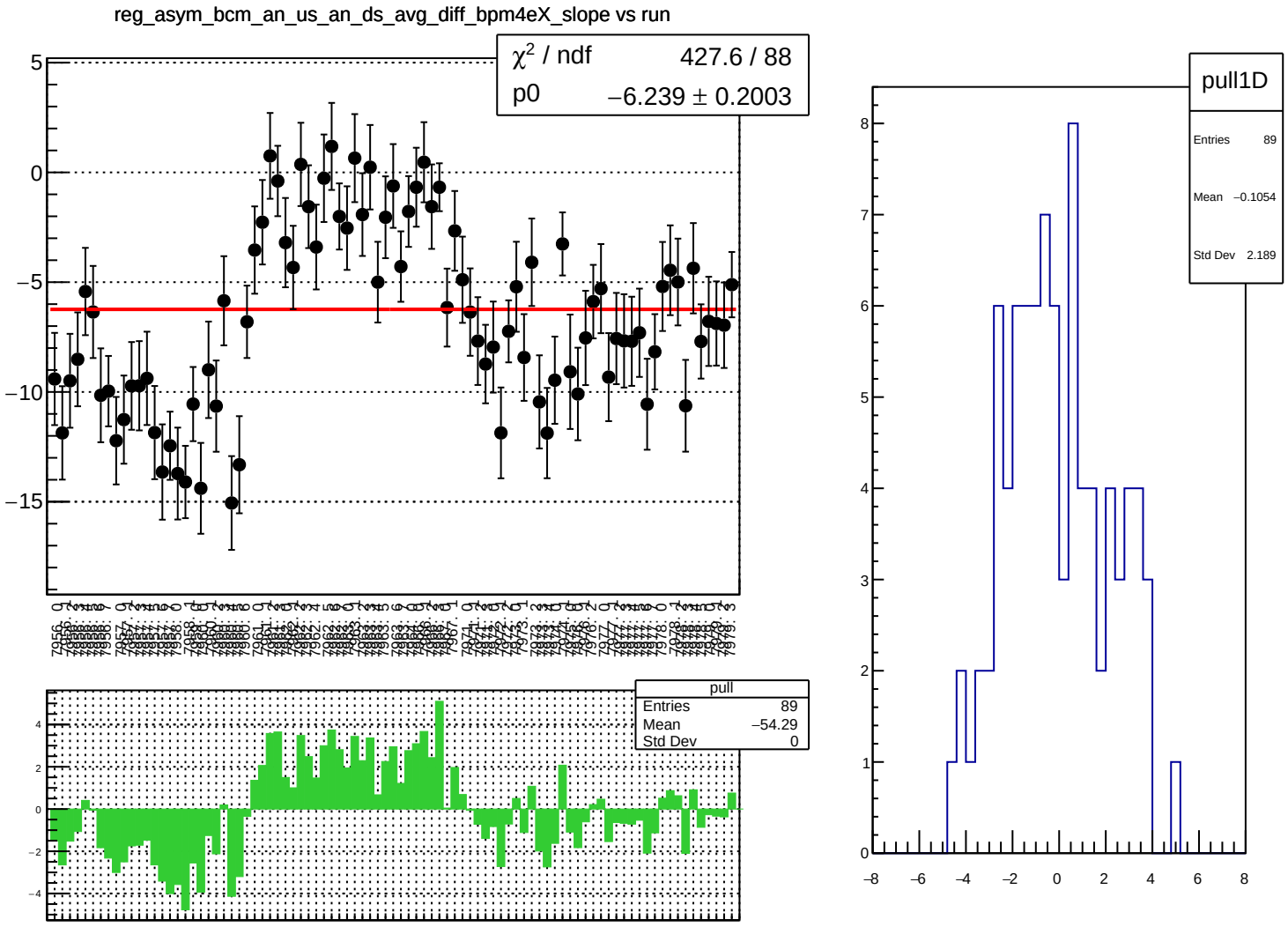

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 150.8 / 88
p0 0.09122 ± 0.002648
pull
Entries 89
Mean −148.9
Std Dev 0

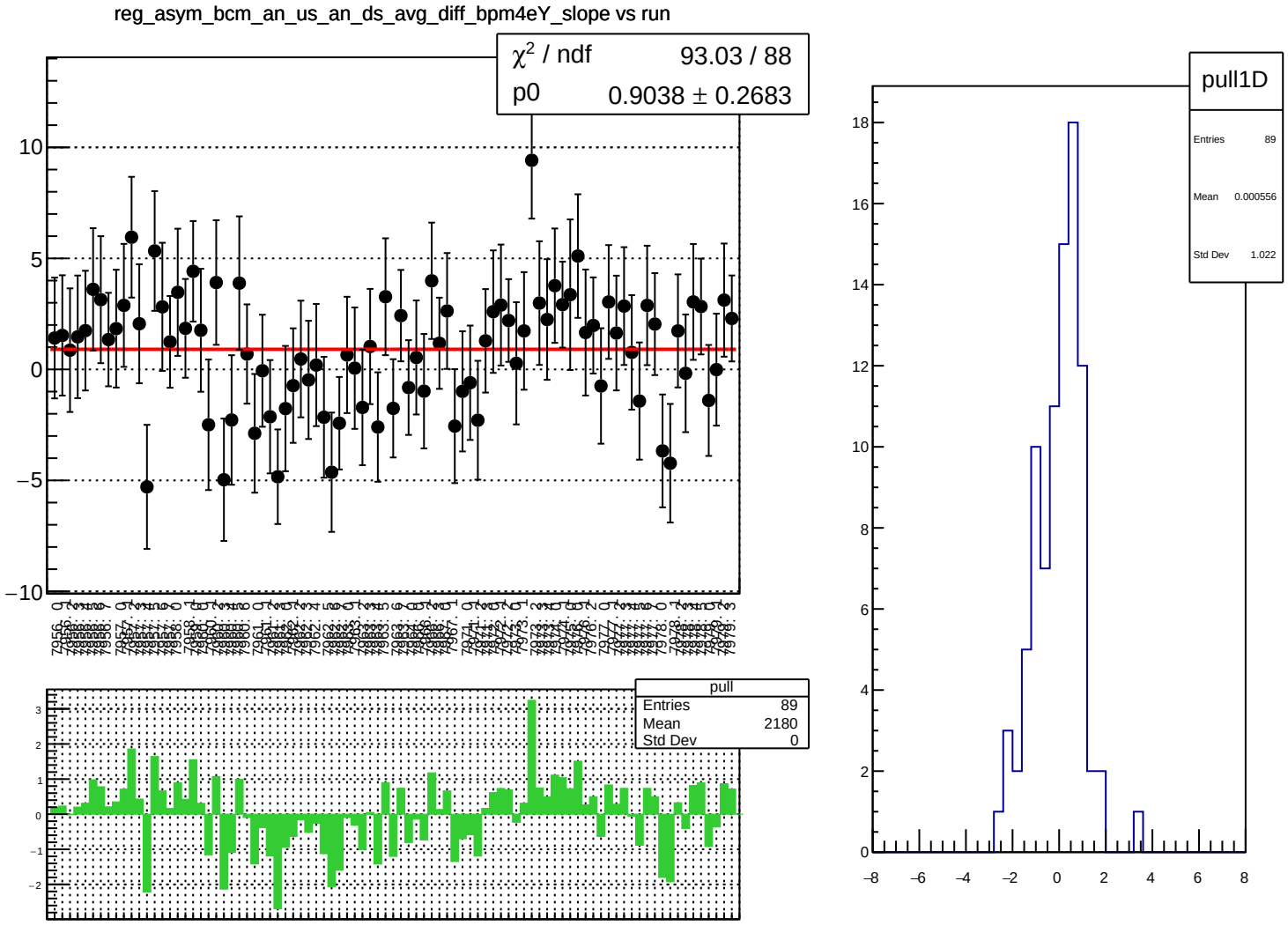

pull1D
Entries 89
Mean −0.02493
Std Dev 1.302

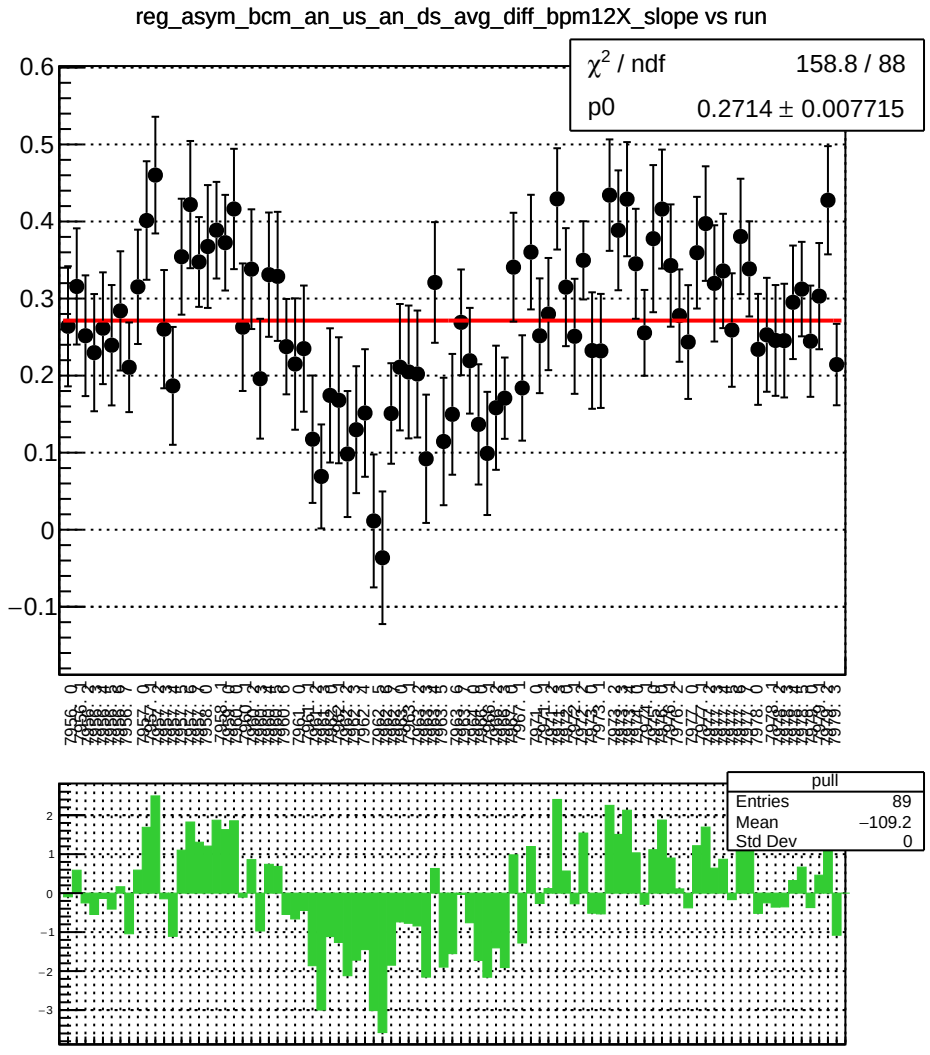

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 401.1 / 88
p0 7.221 ± 0.2259
pull
Entries 89
Mean −123.7
Std Dev 0

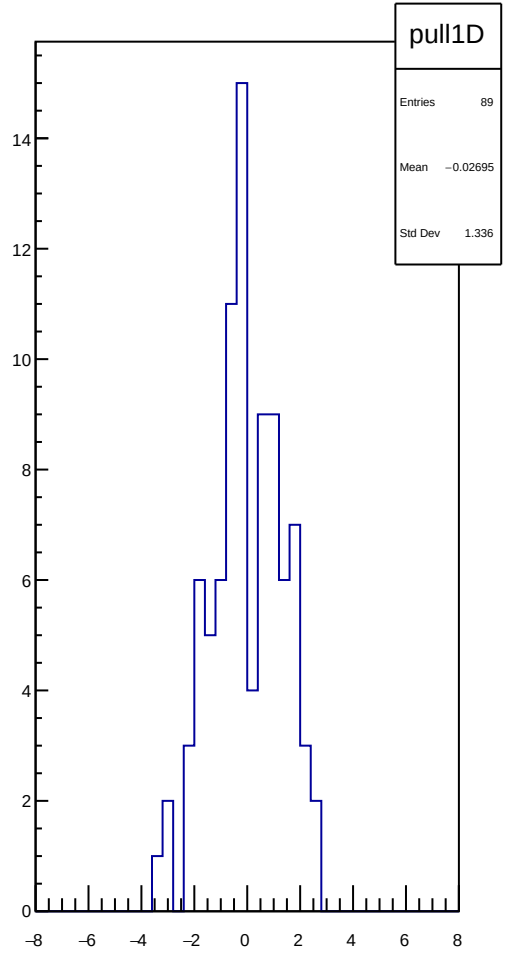

pull1D
Entries 89
Mean 0.06126
Std Dev 2.122

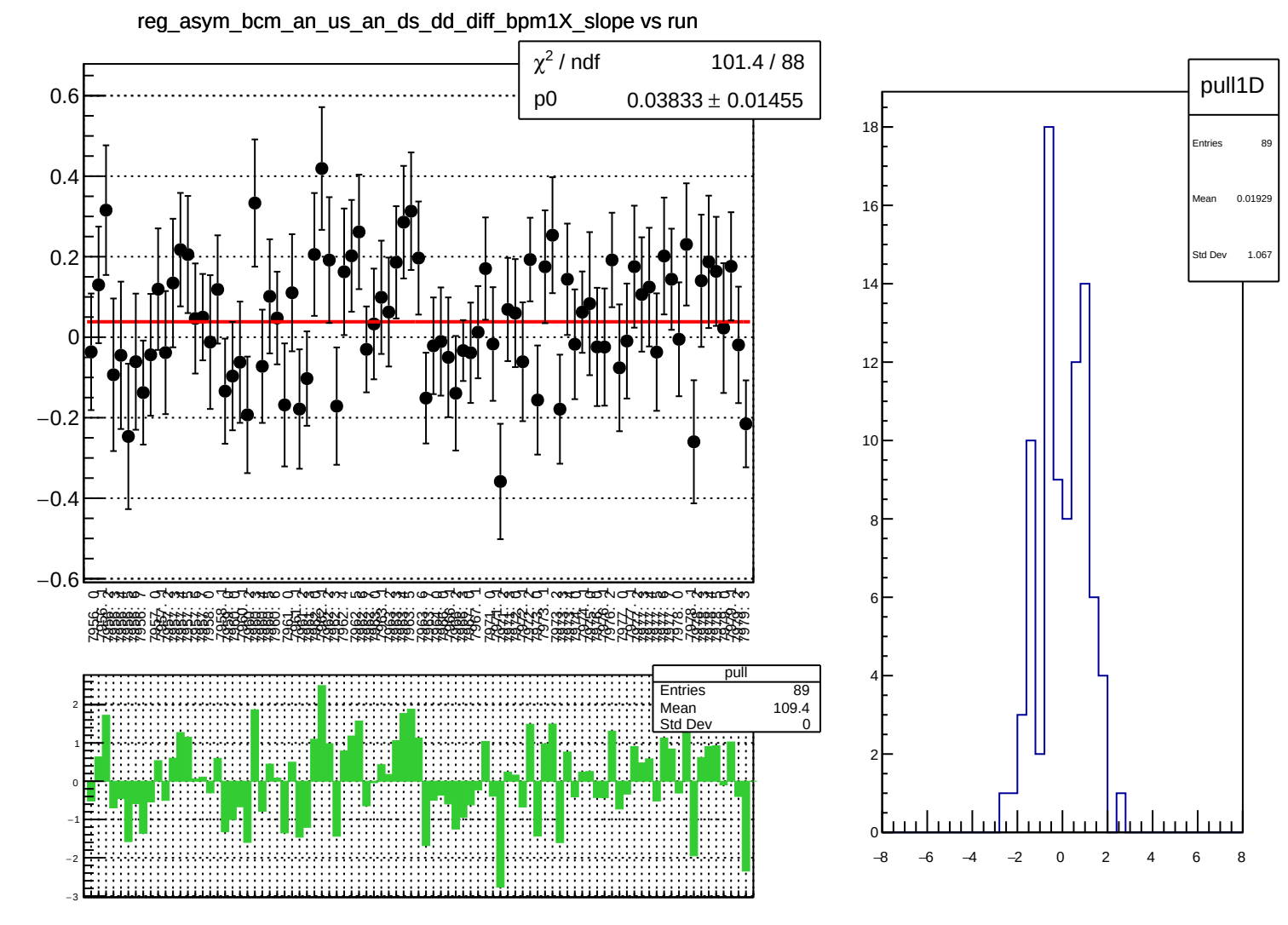

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 94.63 / 88
p0 −1.541 ± 0.2344
pull
Entries 89
Mean −1014
Std Dev 0
pull1D
Entries 89
Mean −0.002569
Std Dev 1.031

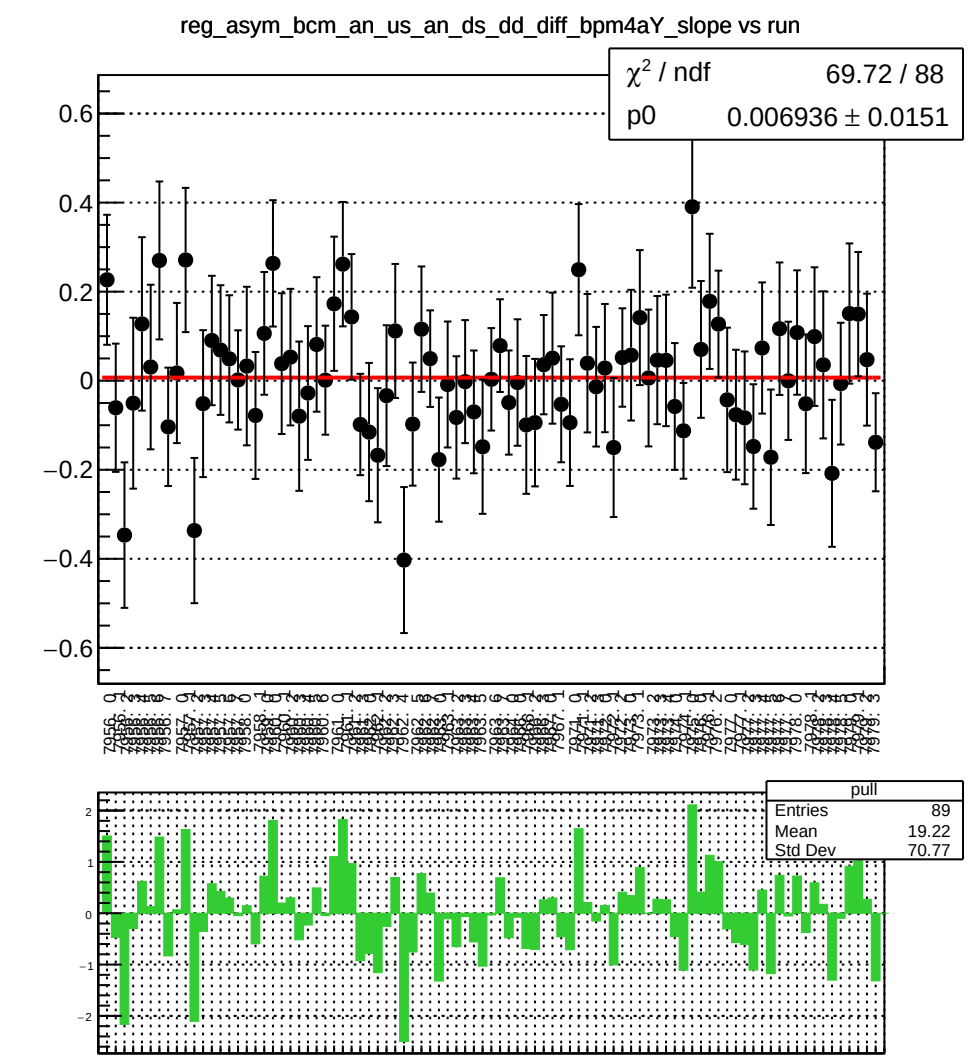

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 427.6 / 88
p0 −6.239 ± 0.2003
pull
Entries 89
Mean −54.29
Std Dev 0
pull1D
Entries 89
Mean −0.1054
Std Dev 2.189

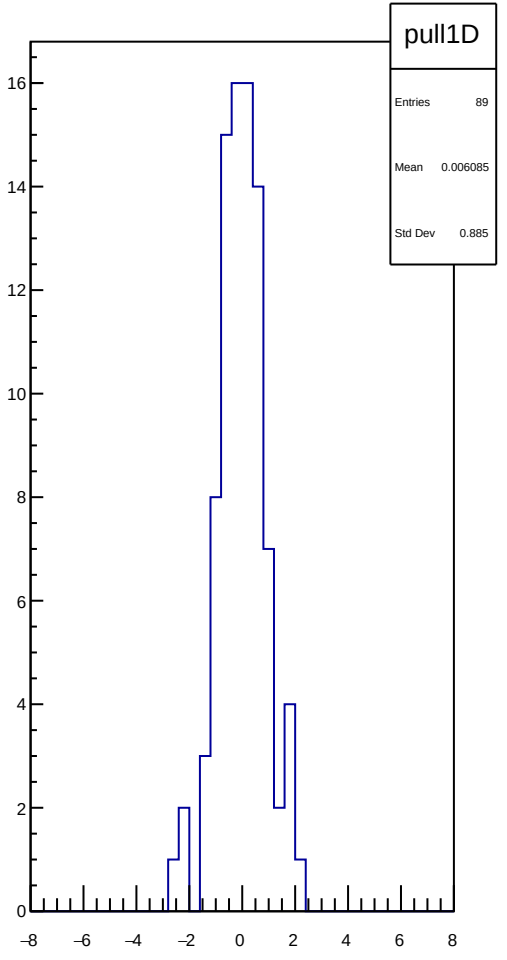

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 93.03 / 88
p0 0.9038 ± 0.2683
pull
Entries 89
Mean 2180
Std Dev 0
pull1D
Entries 89
Mean 0.000556
Std Dev 1.022

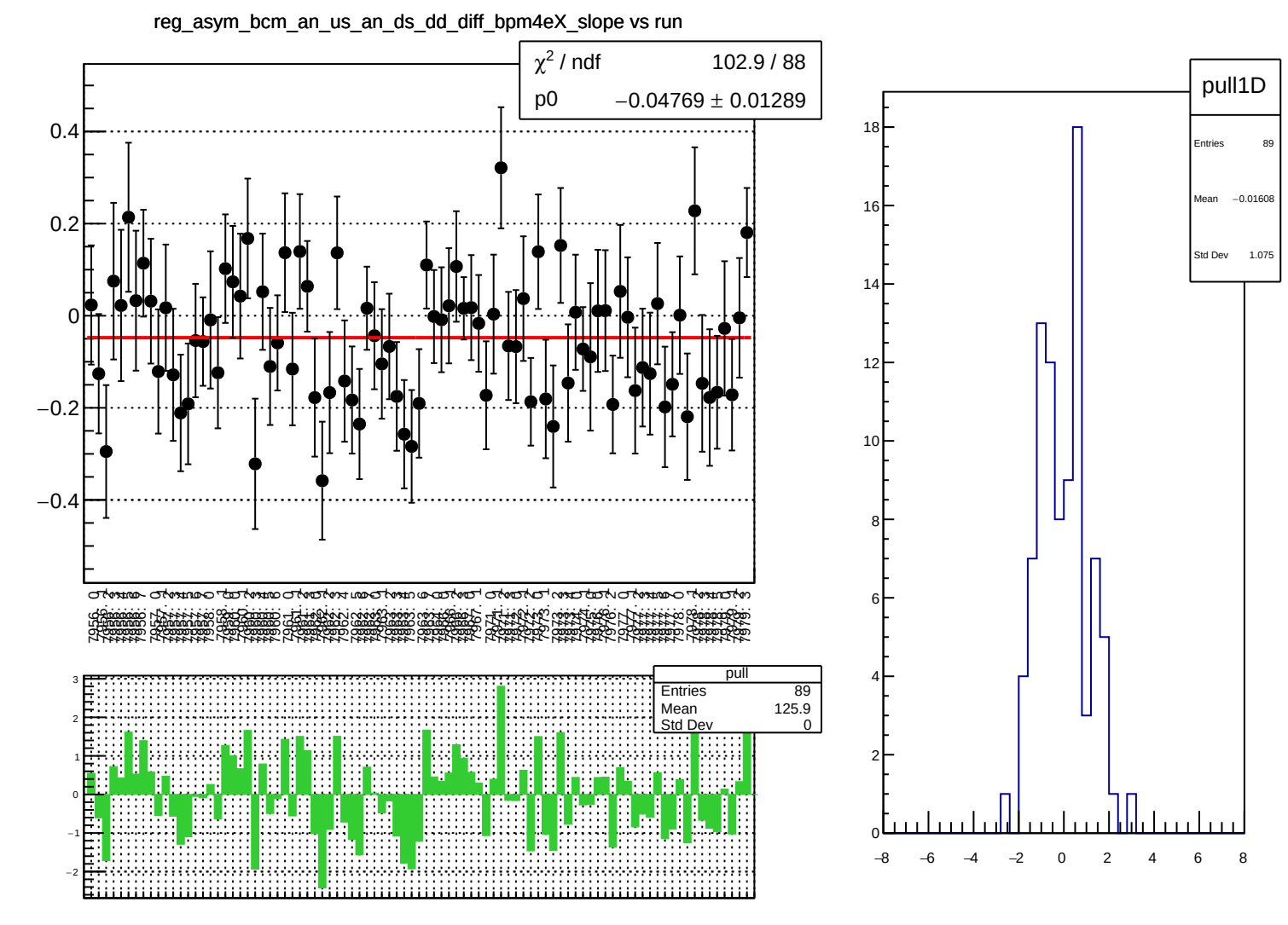

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 158.8 / 88
p0 0.2714 ± 0.007715
pull
Entries 89
Mean −109.2
Std Dev 0

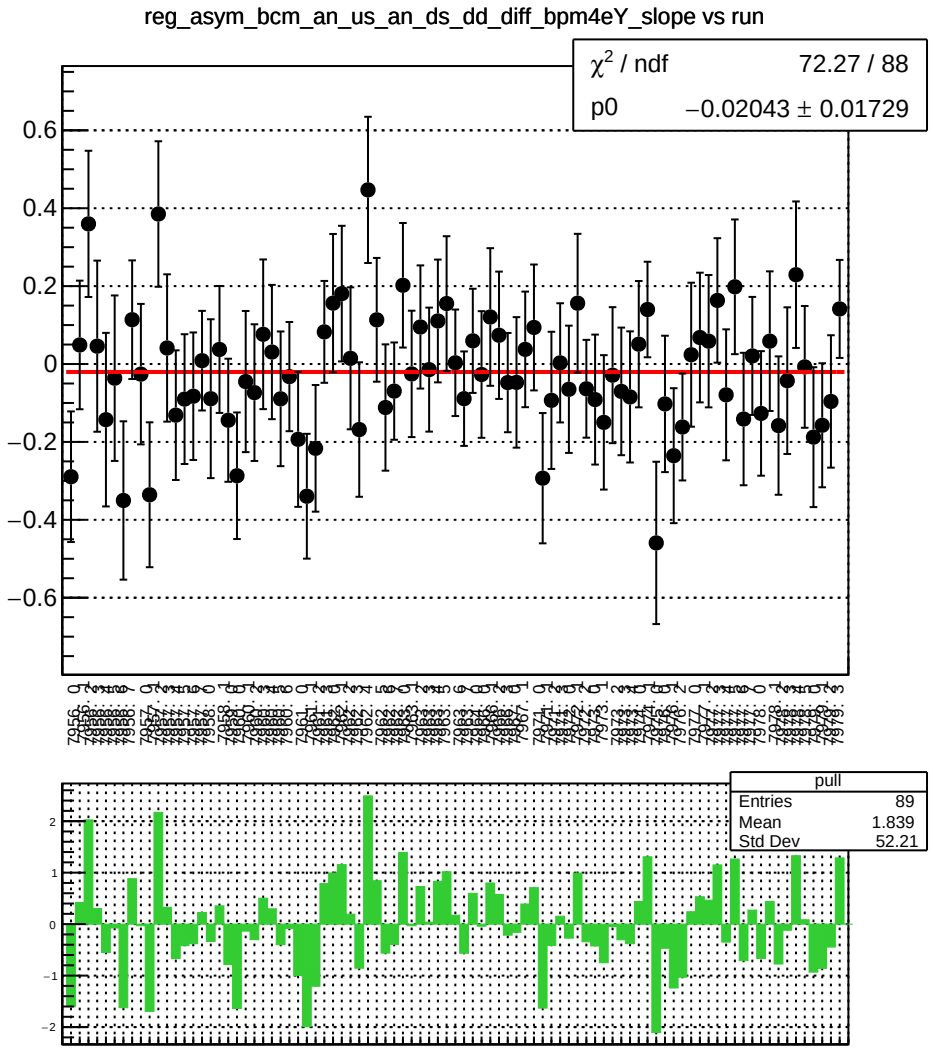

pull1D
Entries 89
Mean −0.02695
Std Dev 1.336

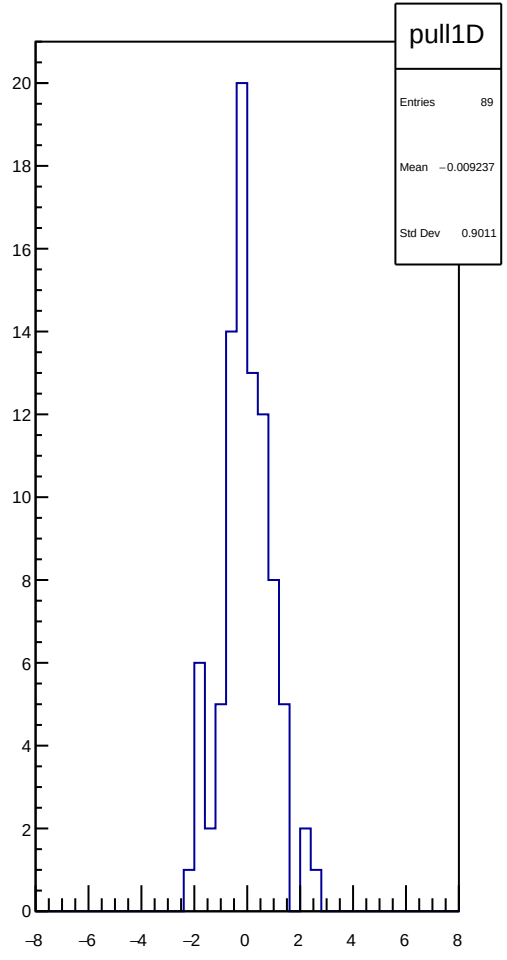

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 101.4 / 88
p0 0.03833 ± 0.01455
pull
Entries 89
Mean 109.4
Std Dev 0
pull1D
Entries 89
Mean 0.01929
Std Dev 1.067

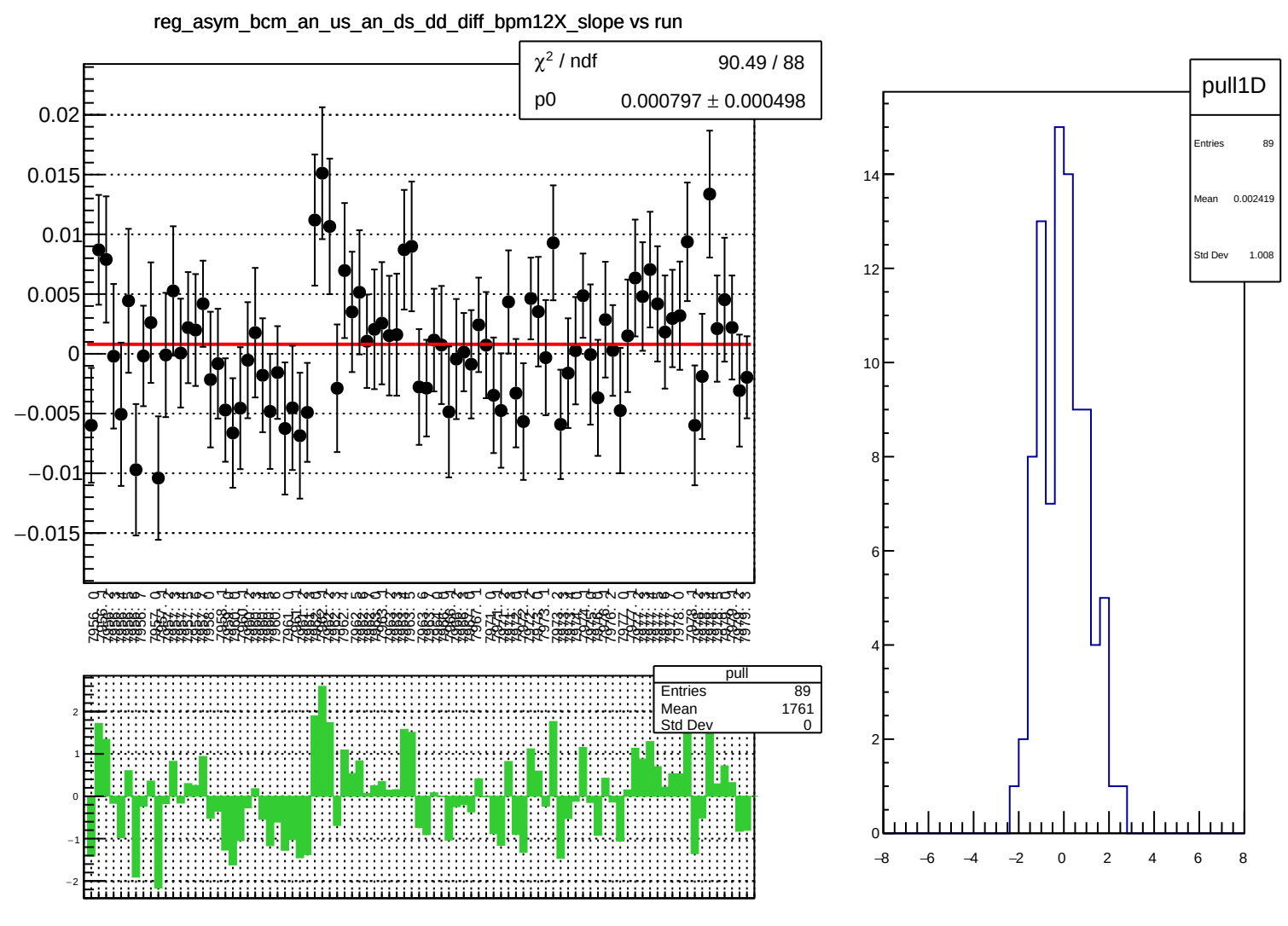

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.72 / 88
p0 0.006936 ± 0.0151
pull
Entries 89
Mean 19.22
Std Dev 70.77

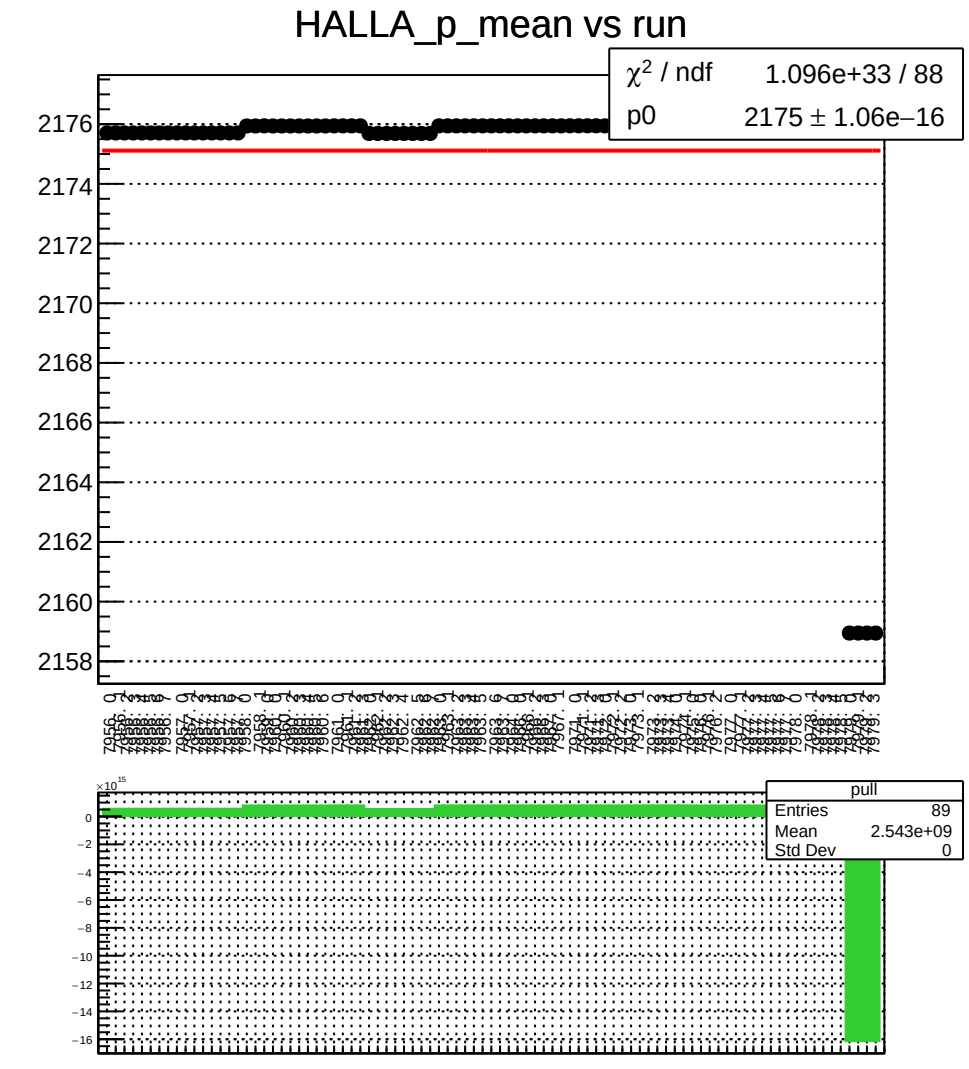

pull1D
Entries 89
Mean 0.006085
Std Dev 0.885

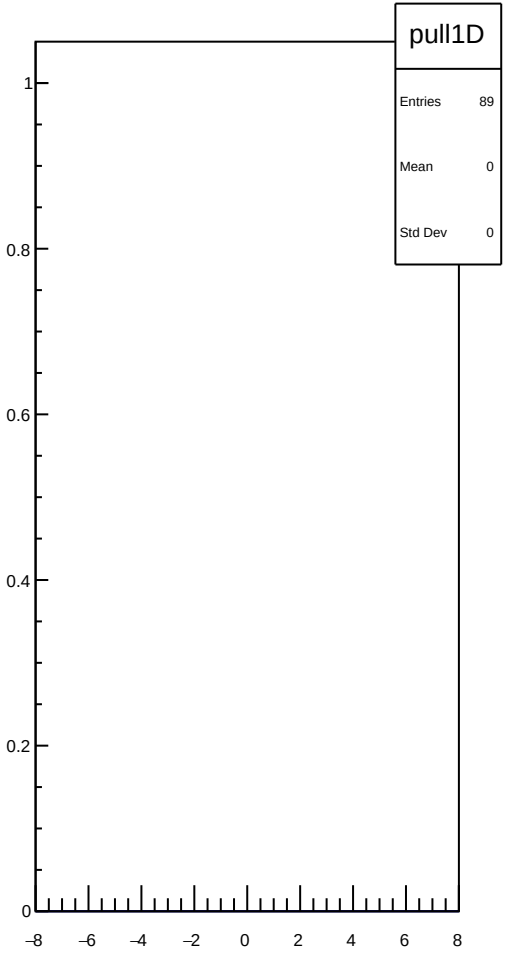

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.9 / 88
p0 −0.04769 ± 0.01289
pull
Entries 89
Mean 125.9
Std Dev 0
pull1D
Entries 89
Mean −0.01608
Std Dev 1.075

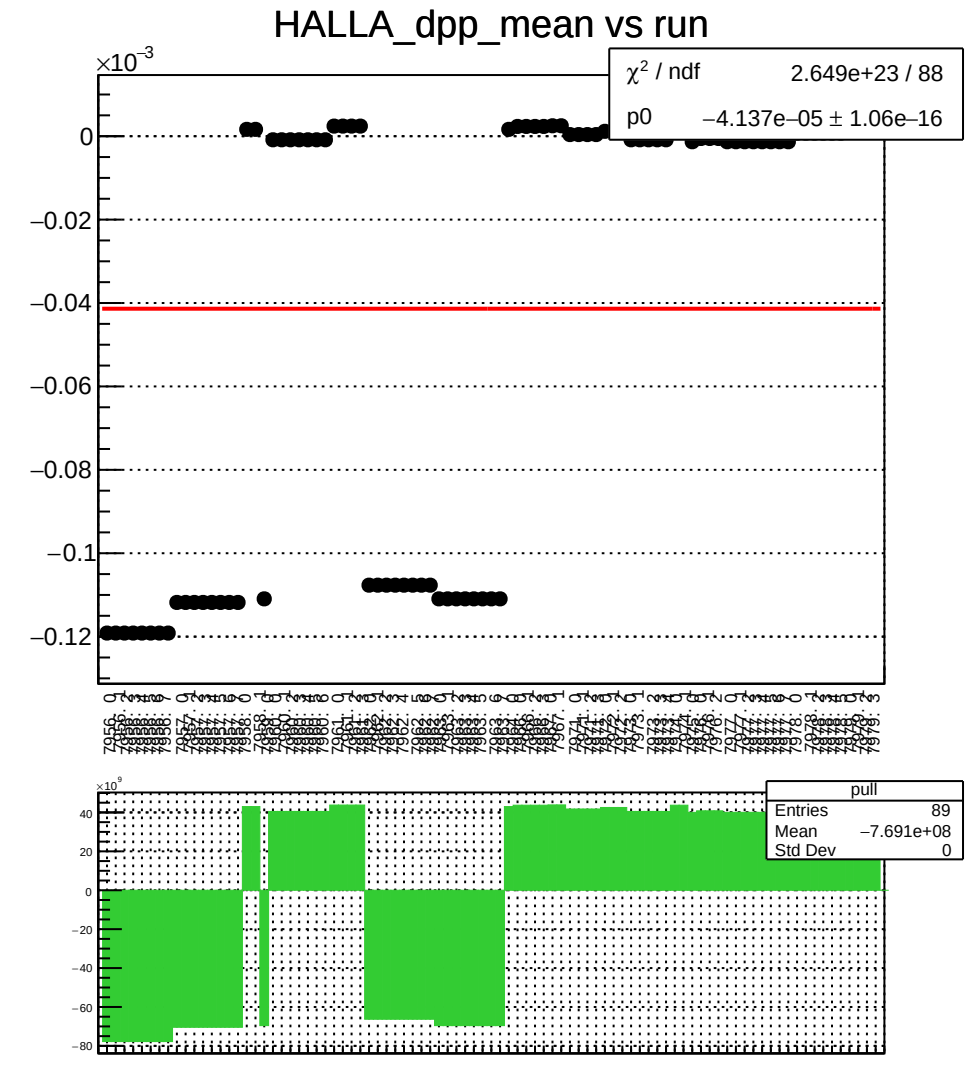

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.27 / 88
p0 −0.02043 ± 0.01729
pull
Entries 89
Mean 1.839
Std Dev 52.21

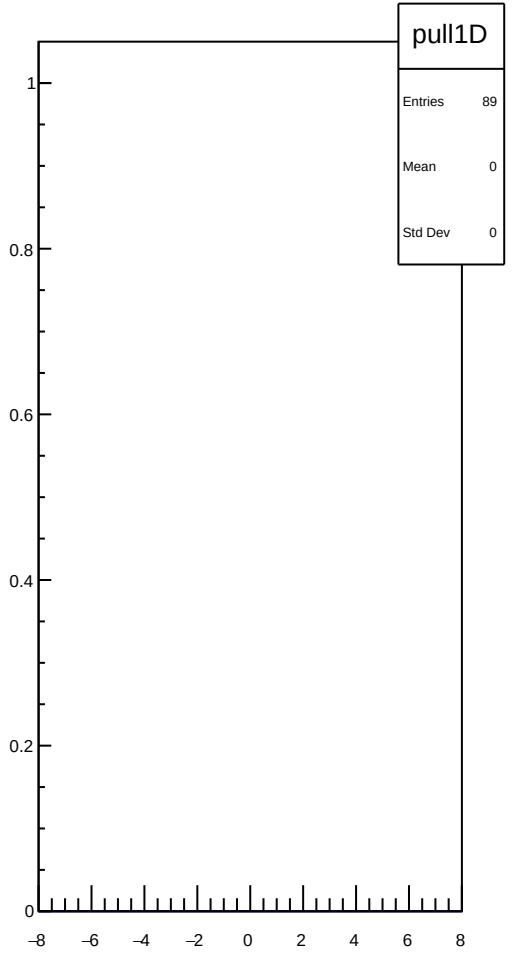

pull1D
Entries 89
Mean −0.009237
Std Dev 0.9011

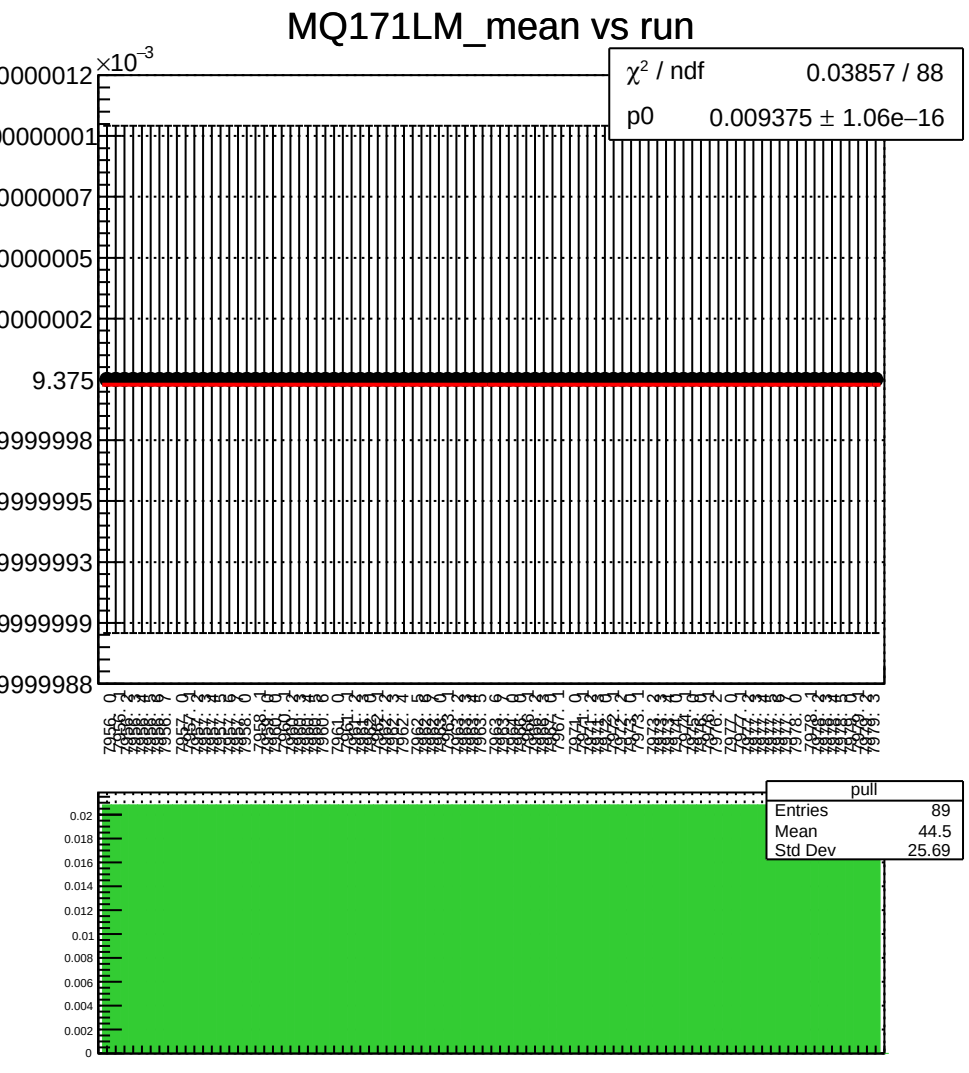

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 90.49 / 88
p0 0.000797 ± 0.000498
pull
Entries 89
Mean 1761
Std Dev 0
pull1D
Entries 89
Mean 0.002419
Std Dev 1.008

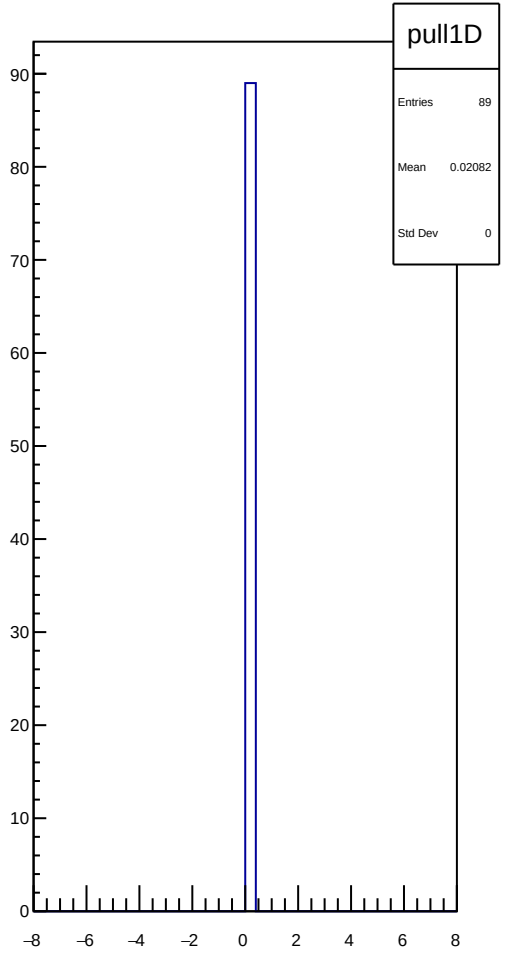

HALLA_p_mean vs run
χ² / ndf 1.096e+33 / 88
p0 2175 ± 1.06e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 89
Mean 2.543e+09
Std Dev 0
×10¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16

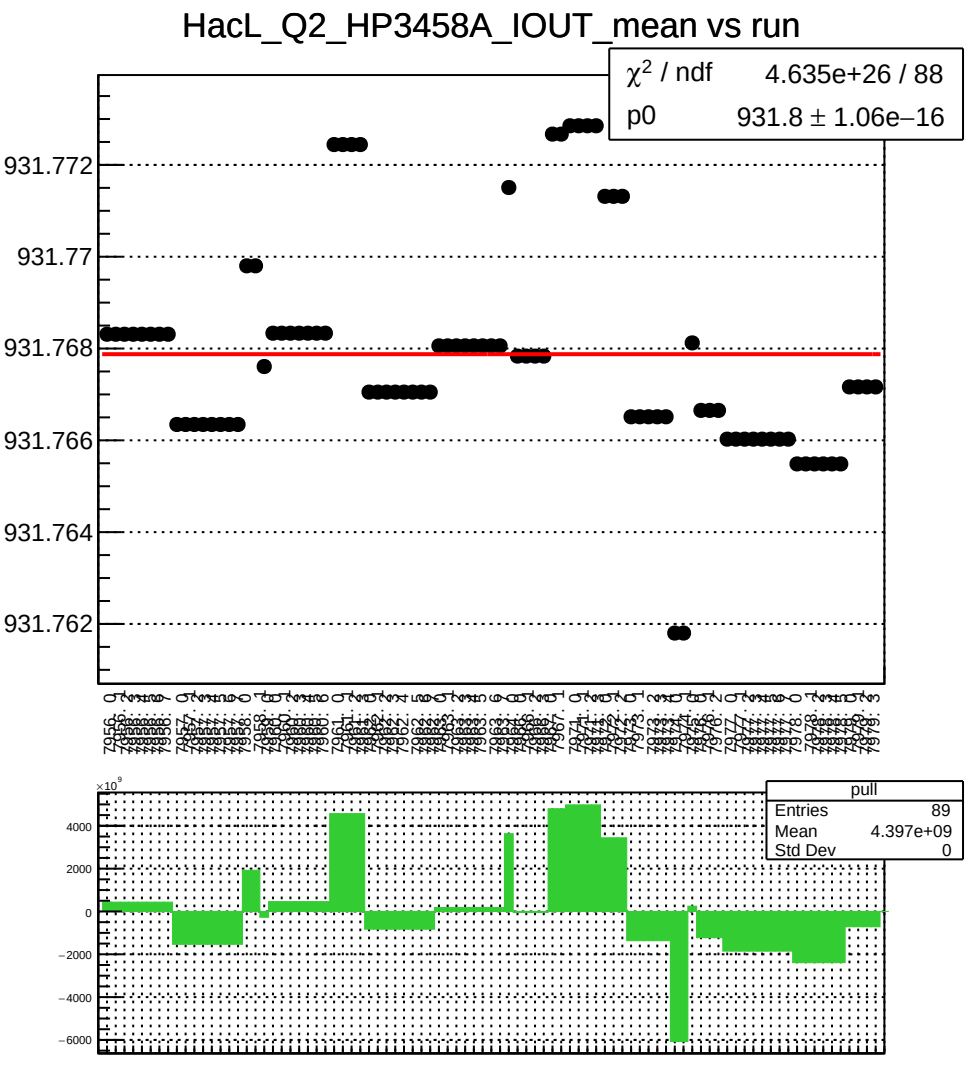

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

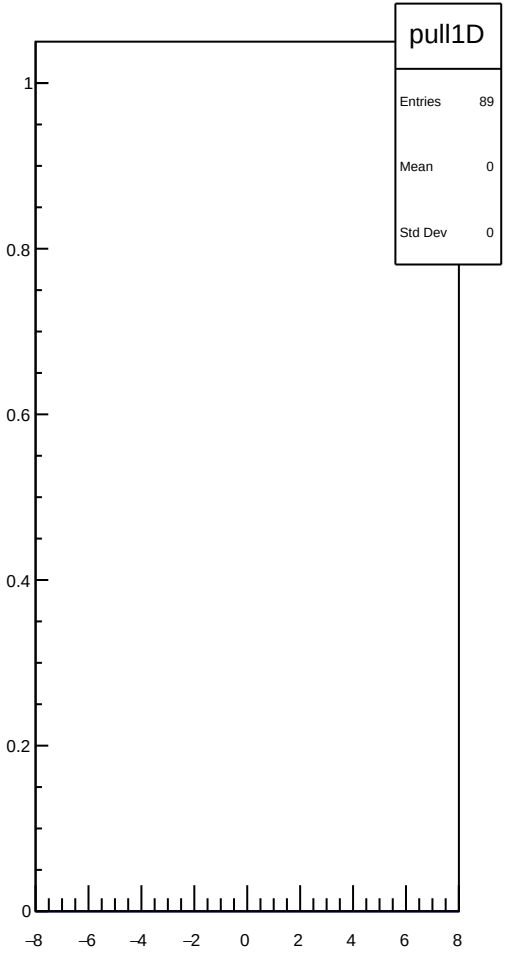

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.649e+23 / 88
p0 −4.137e−05 ± 1.06e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 89
Mean −7.691e+08
Std Dev 0
40
20
0
−20
−40
−60
−80

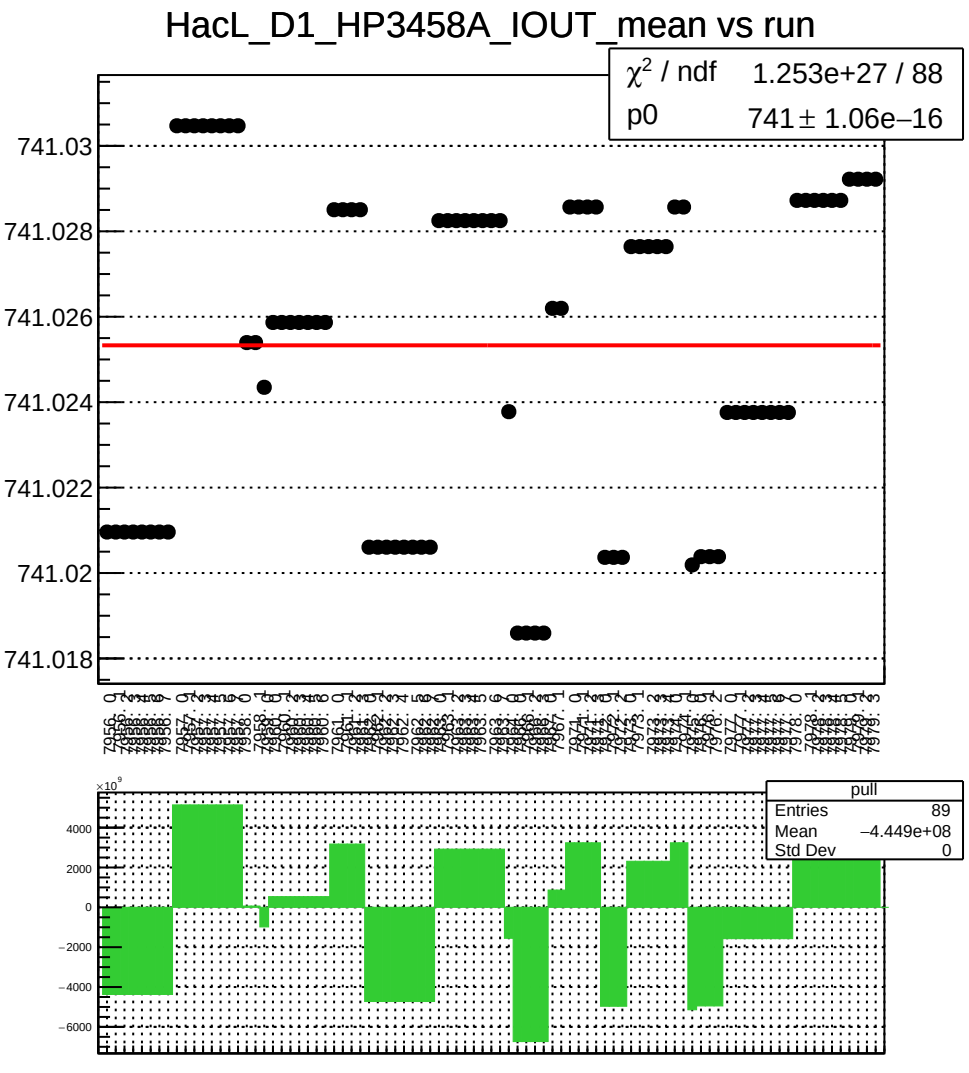

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

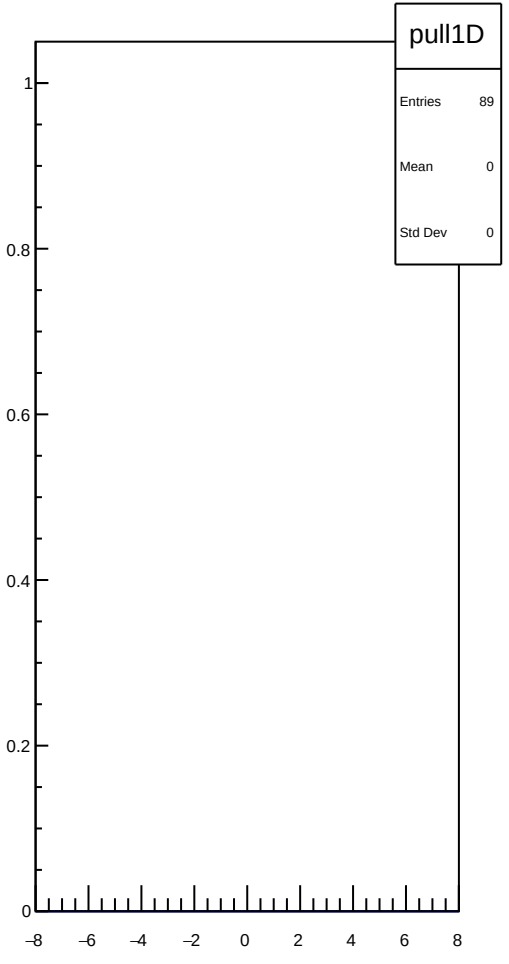

MQ171LM_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69

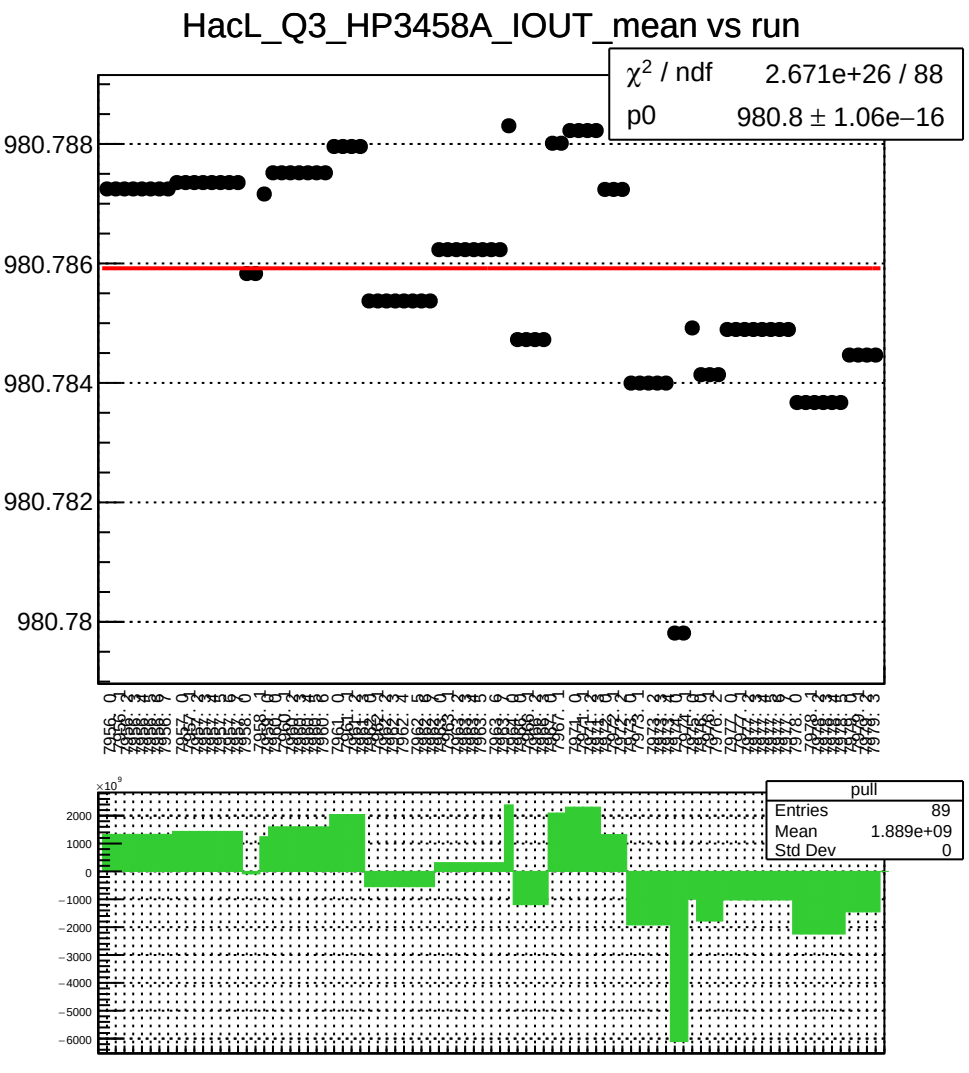

pull1D
Entries 89
Mean 0.02082
Std Dev 0

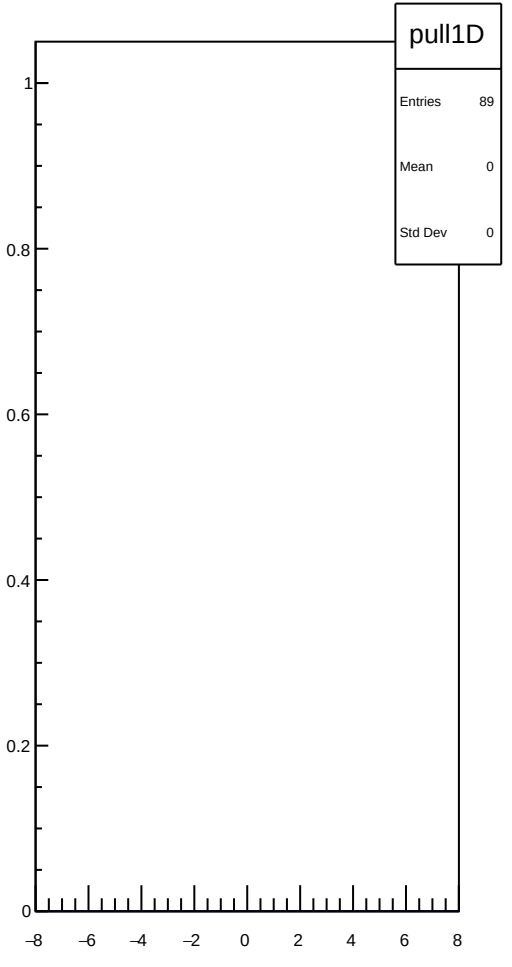

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.635e+26 / 88
p0 931.8 ± 1.06e−16
931.772
931.77
931.768
931.766
931.764
931.762
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 4.397e+09
Std Dev 0

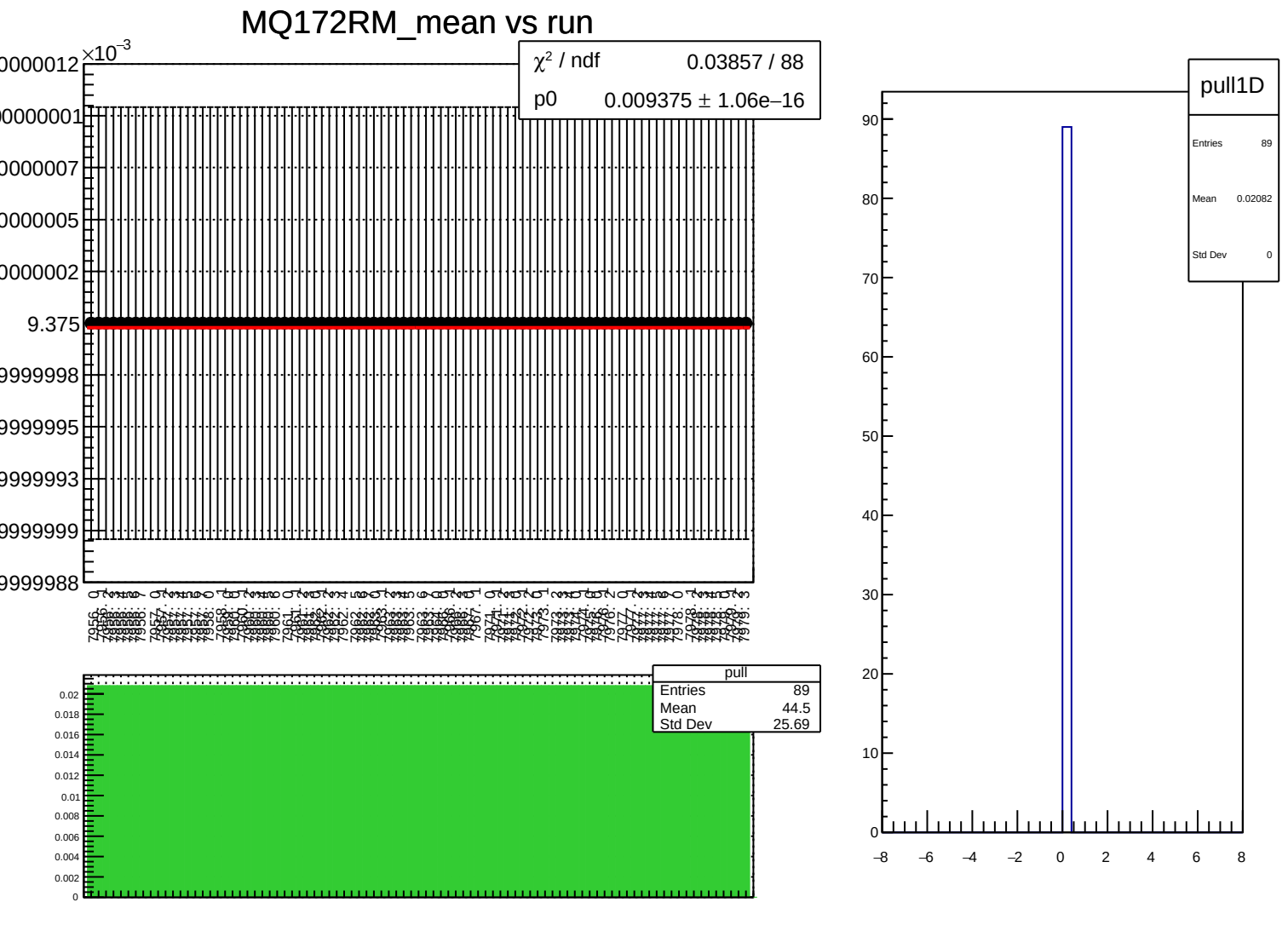

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

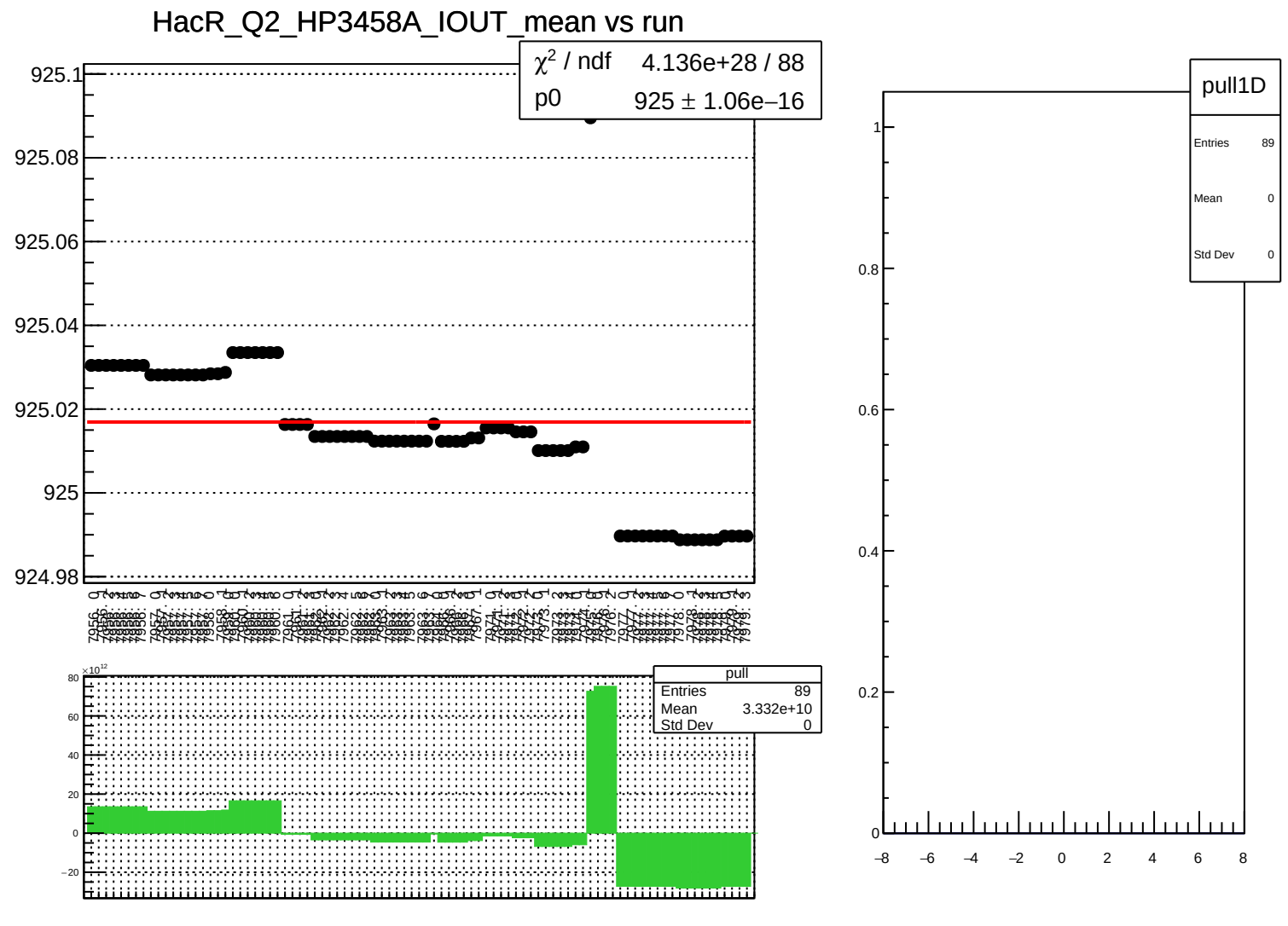

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.253e+27 / 88
p0 741 ± 1.06e−16
741.03
741.028
741.026
741.024
741.022
741.02
741.018
pull
Entries 89
Mean −4.449e+08
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000
−6000

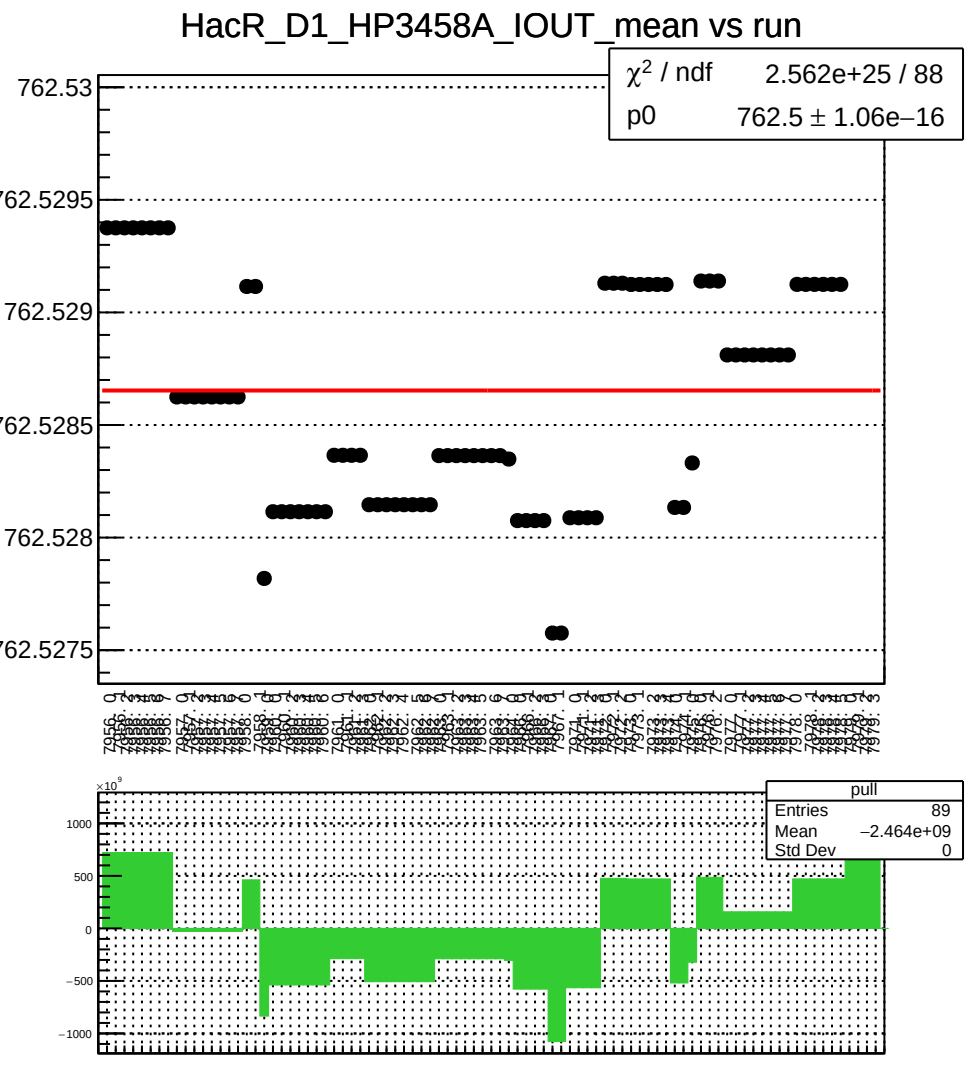

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

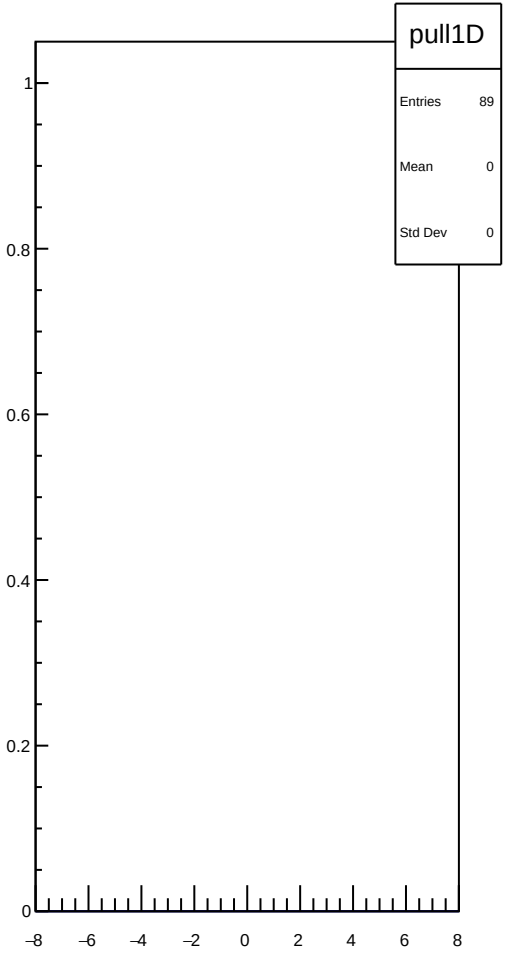

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.671e+26 / 88
p0 980.8 ± 1.06e−16
980.788
980.786
980.784
980.782
980.78
pull
Entries 89
Mean 1.889e+09
Std Dev 0
×10⁹
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000

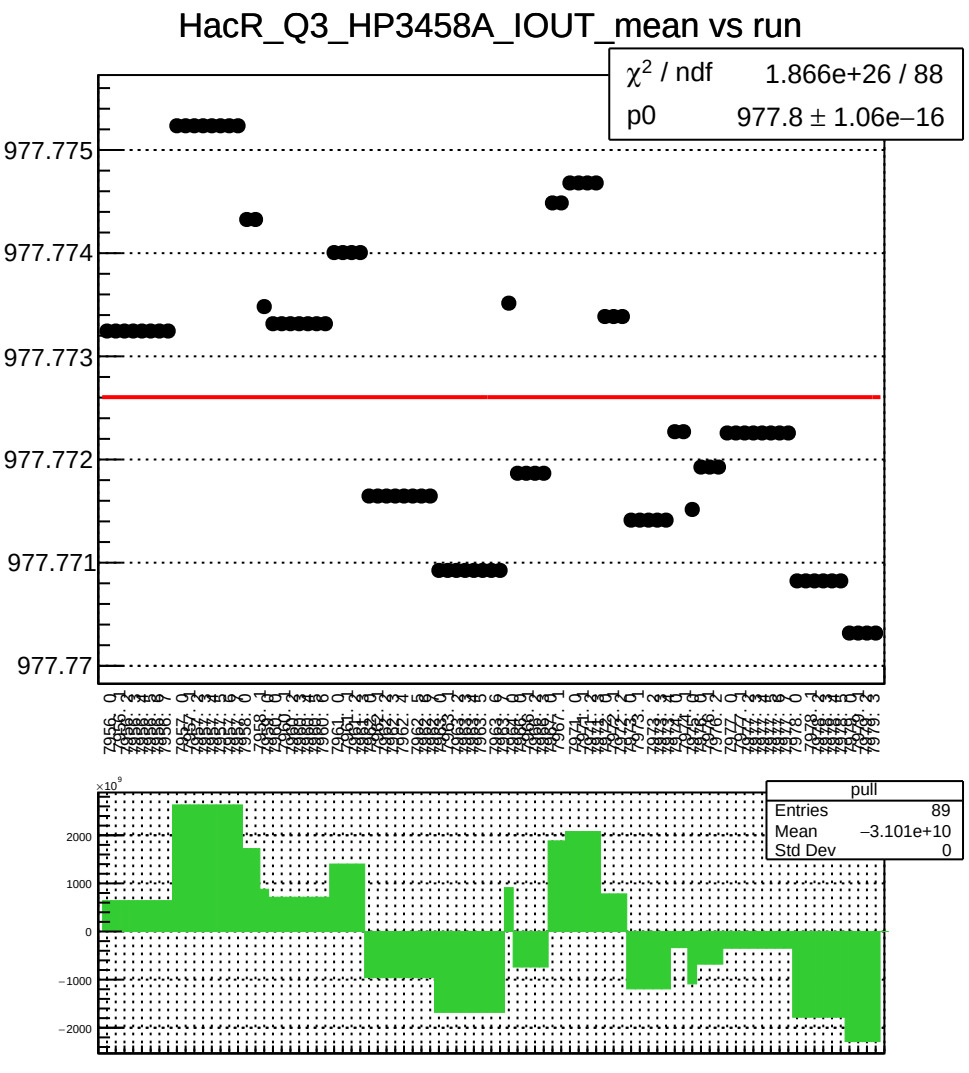

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

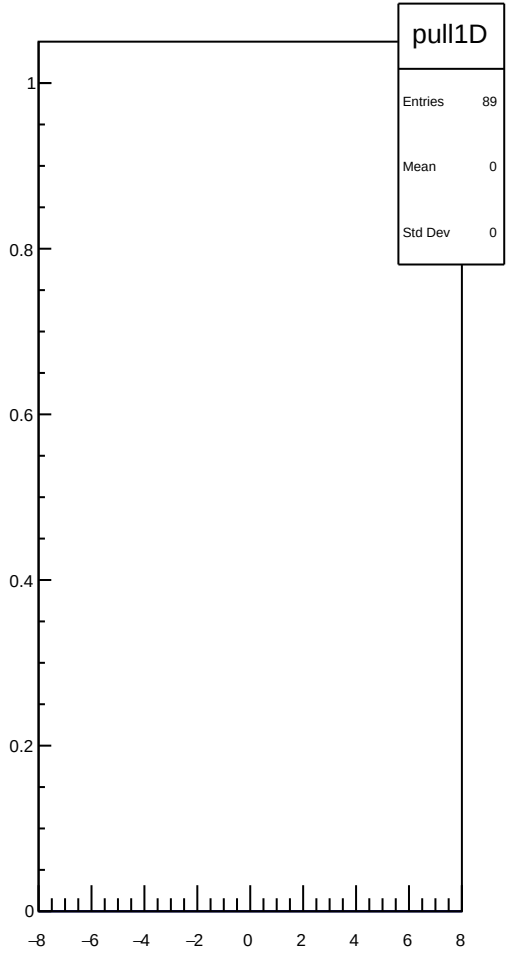

MQ172RM_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

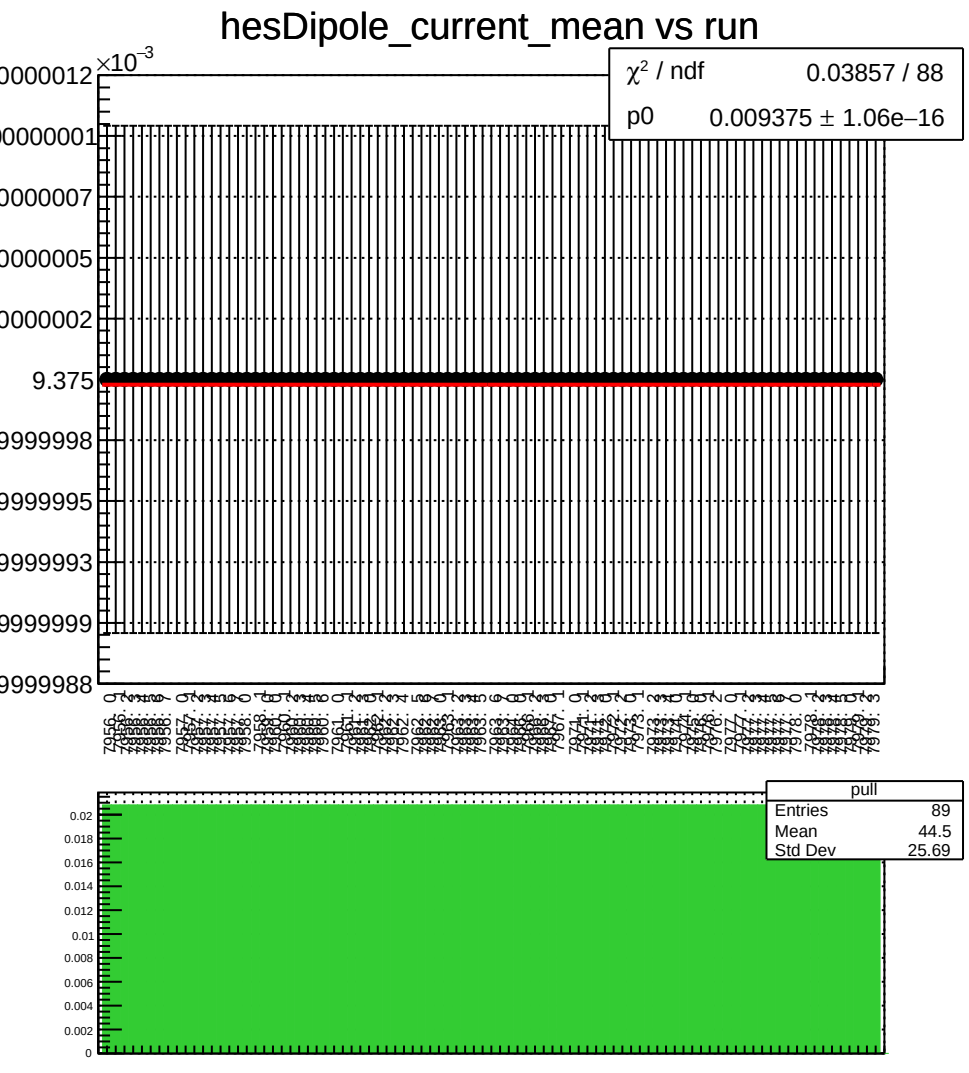

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.136e+28 / 88
p0 925 ± 1.06e−16
925.1
925.08
925.06
925.04
925.02
925
924.98
pull
Entries 89
Mean 3.332e+10
Std Dev 0
×10¹²
80
60
40
20
0
−20
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

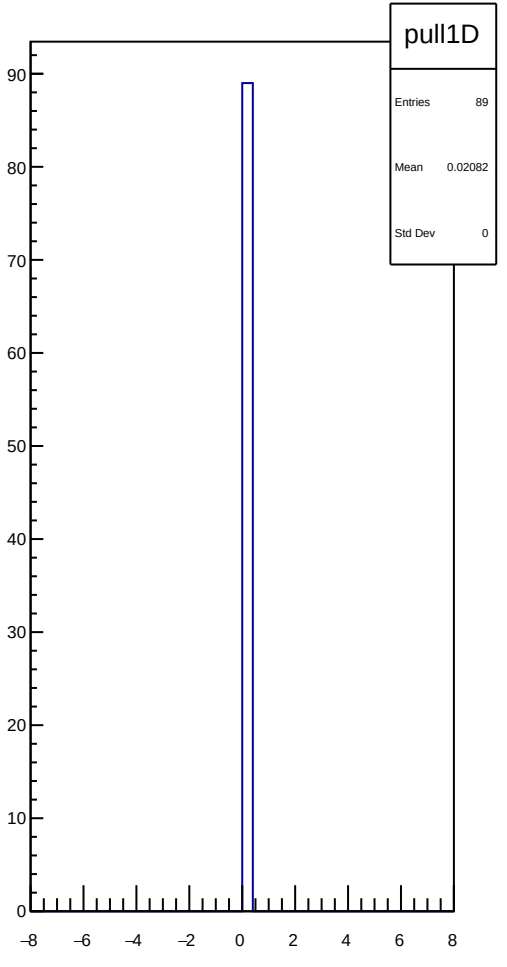

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.562e+25 / 88
p0 762.5 ± 1.06e−16
762.53
762.5295
762.529
762.5285
762.528
762.5275
×10⁹
1000
500
0
−500
−1000
pull
Entries 89
Mean −2.464e+09
Std Dev 0

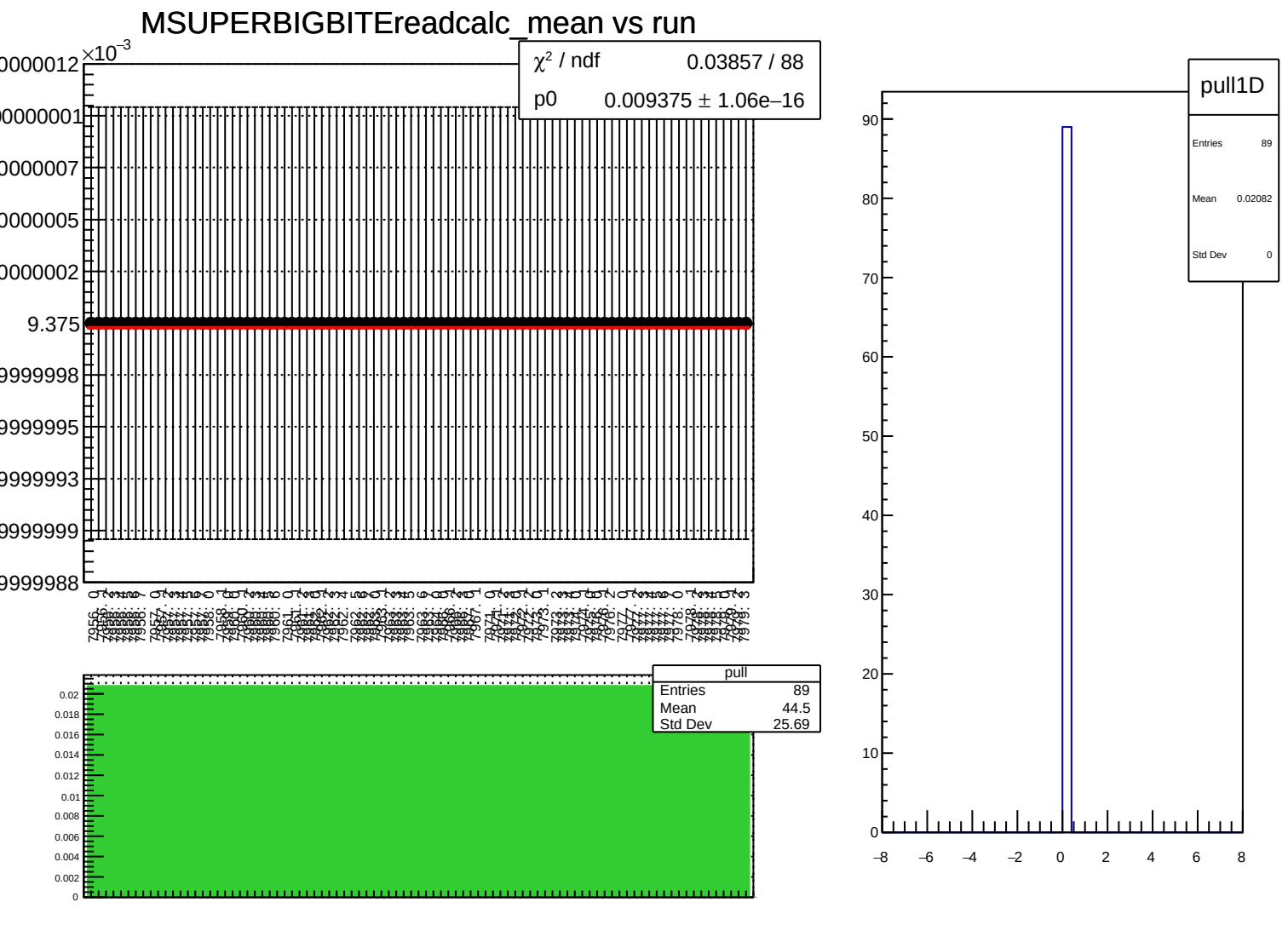

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

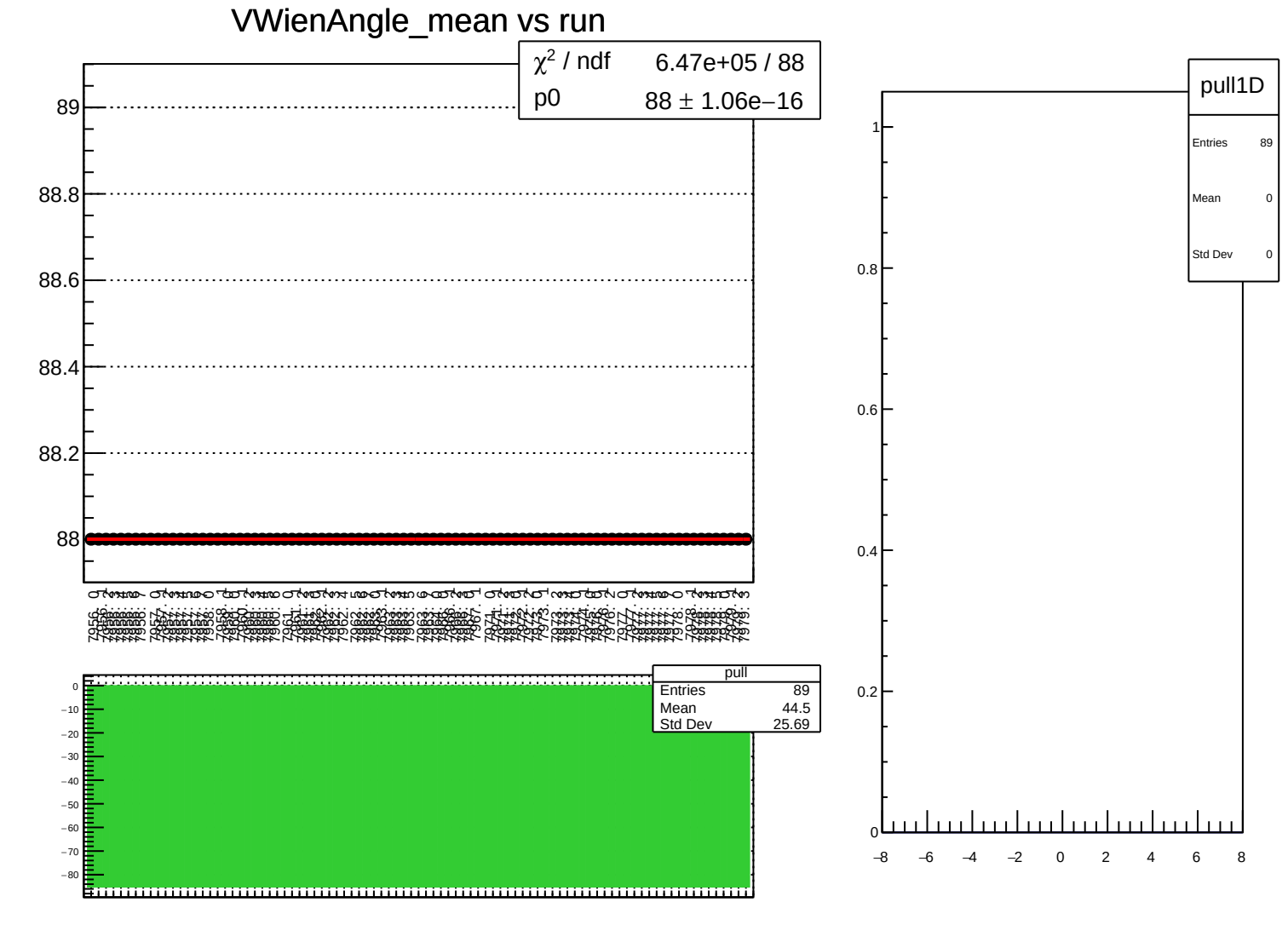

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.866e+26 / 88
p0 977.8 ± 1.06e−16
977.775
977.774
977.773
977.772
977.771
977.77
×10⁹
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −3.101e+10
Std Dev 0

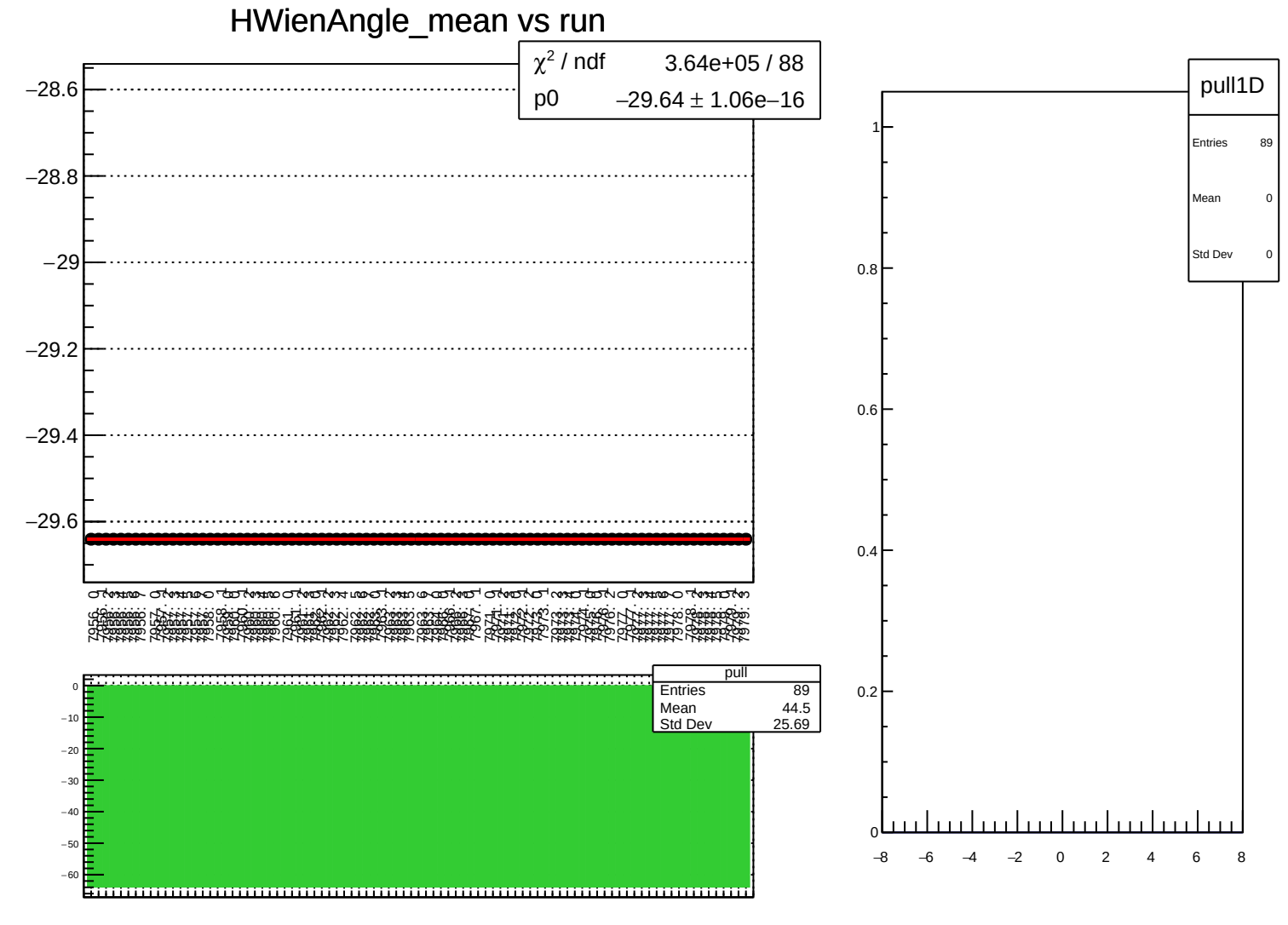

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

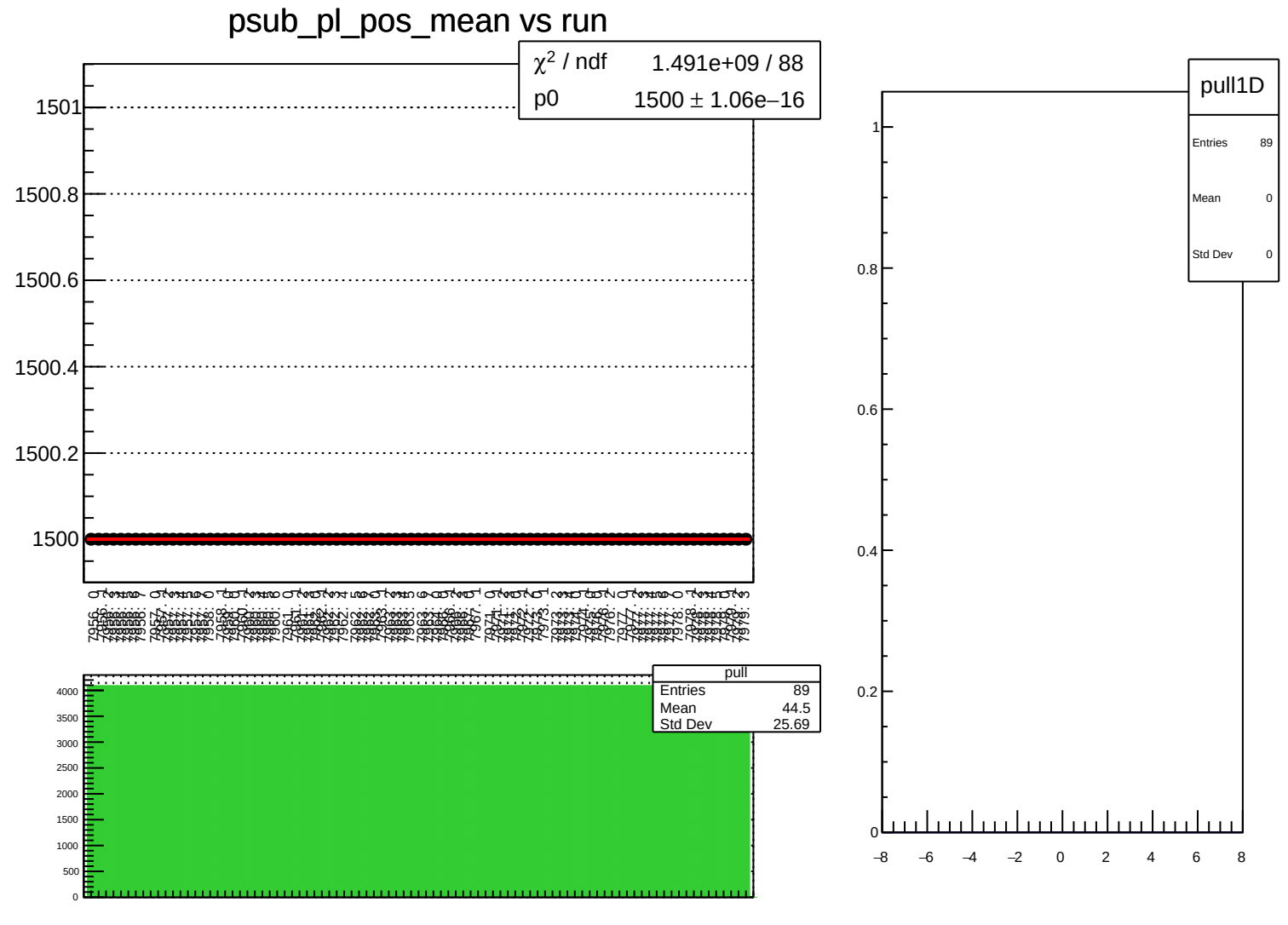

hesDipole_current_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69

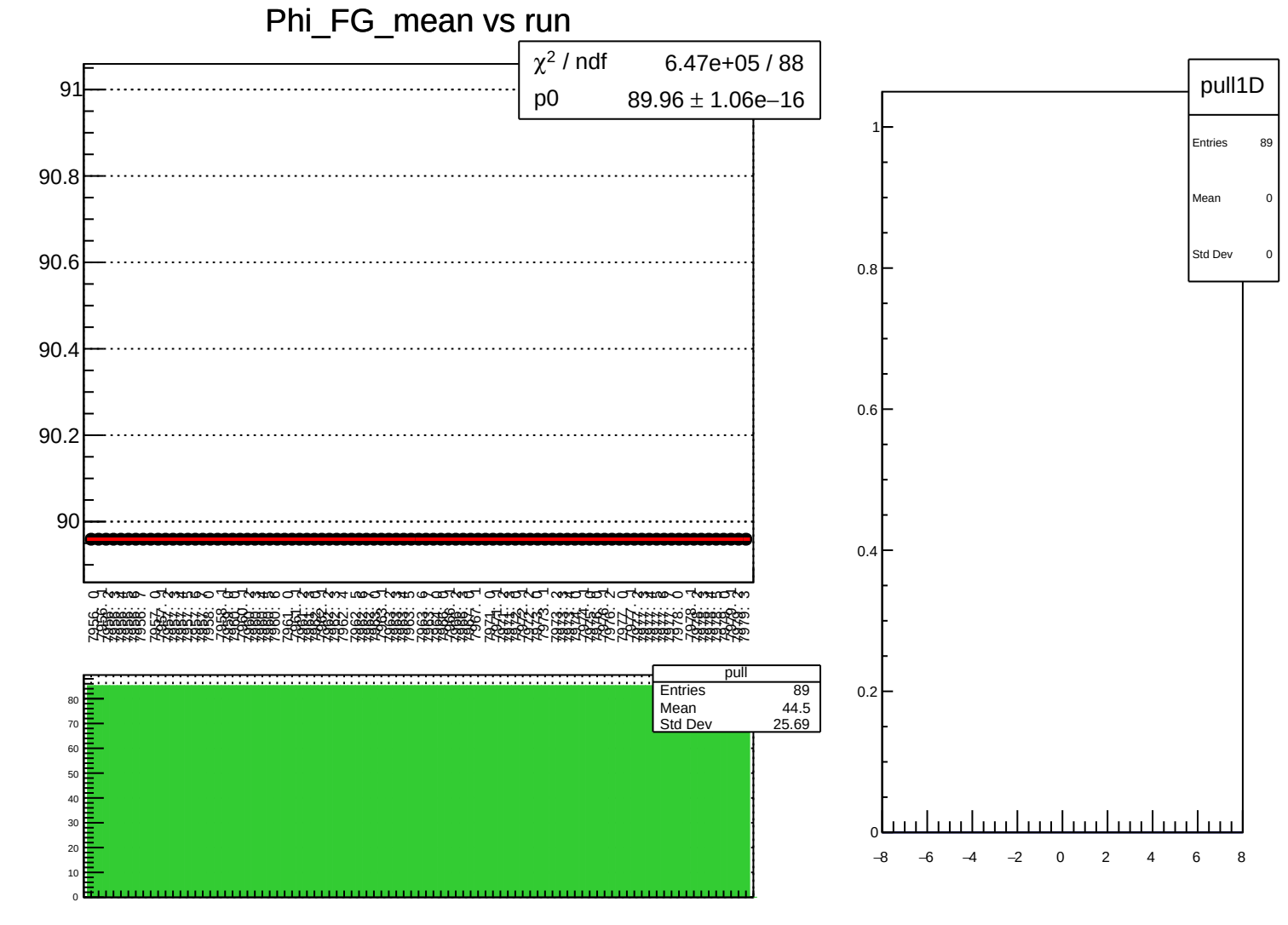

pull1D
Entries 89
Mean 0.02082
Std Dev 0

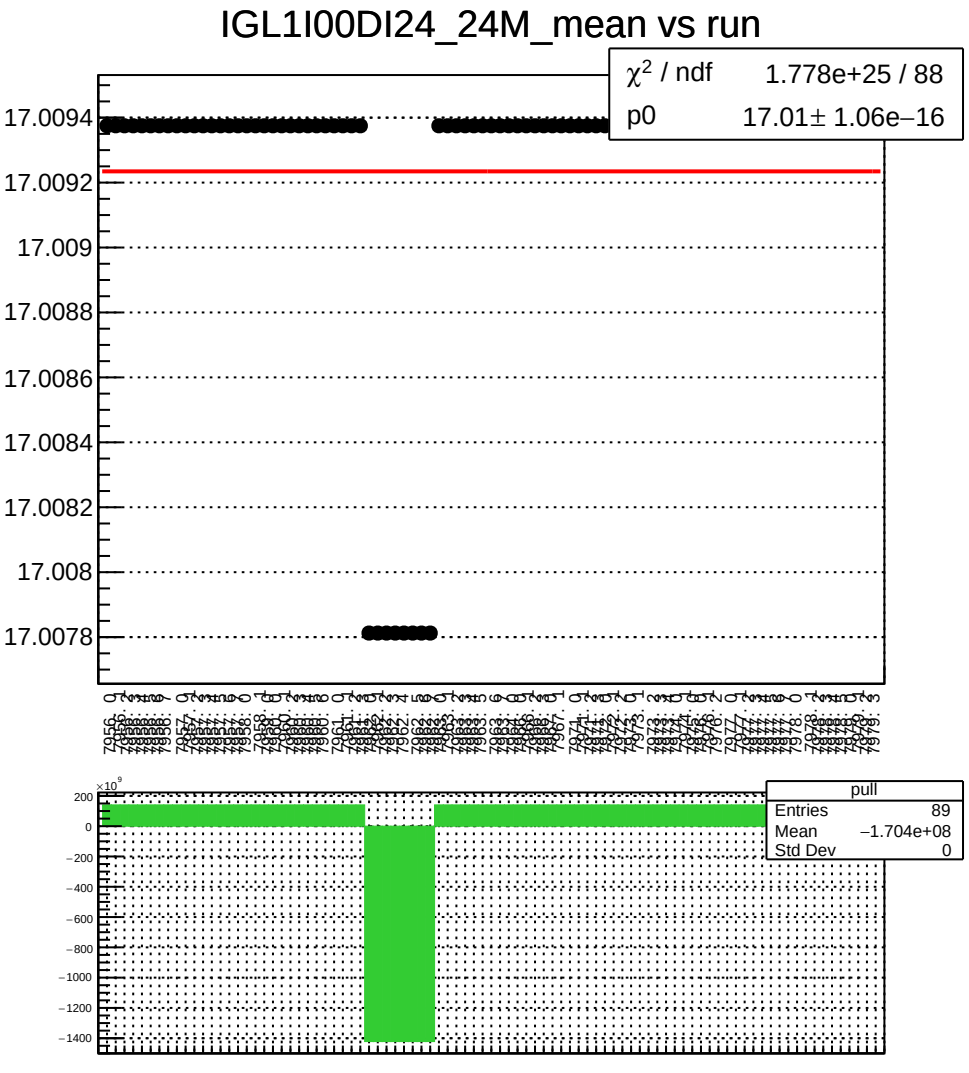

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

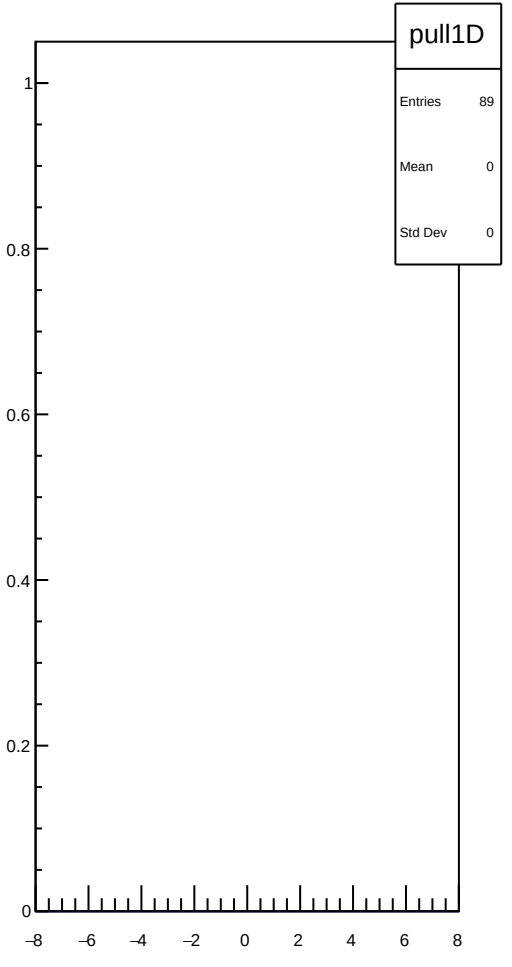

VWienAngle_mean vs run
χ² / ndf 6.47e+05 / 88
p0 88 ± 1.06e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

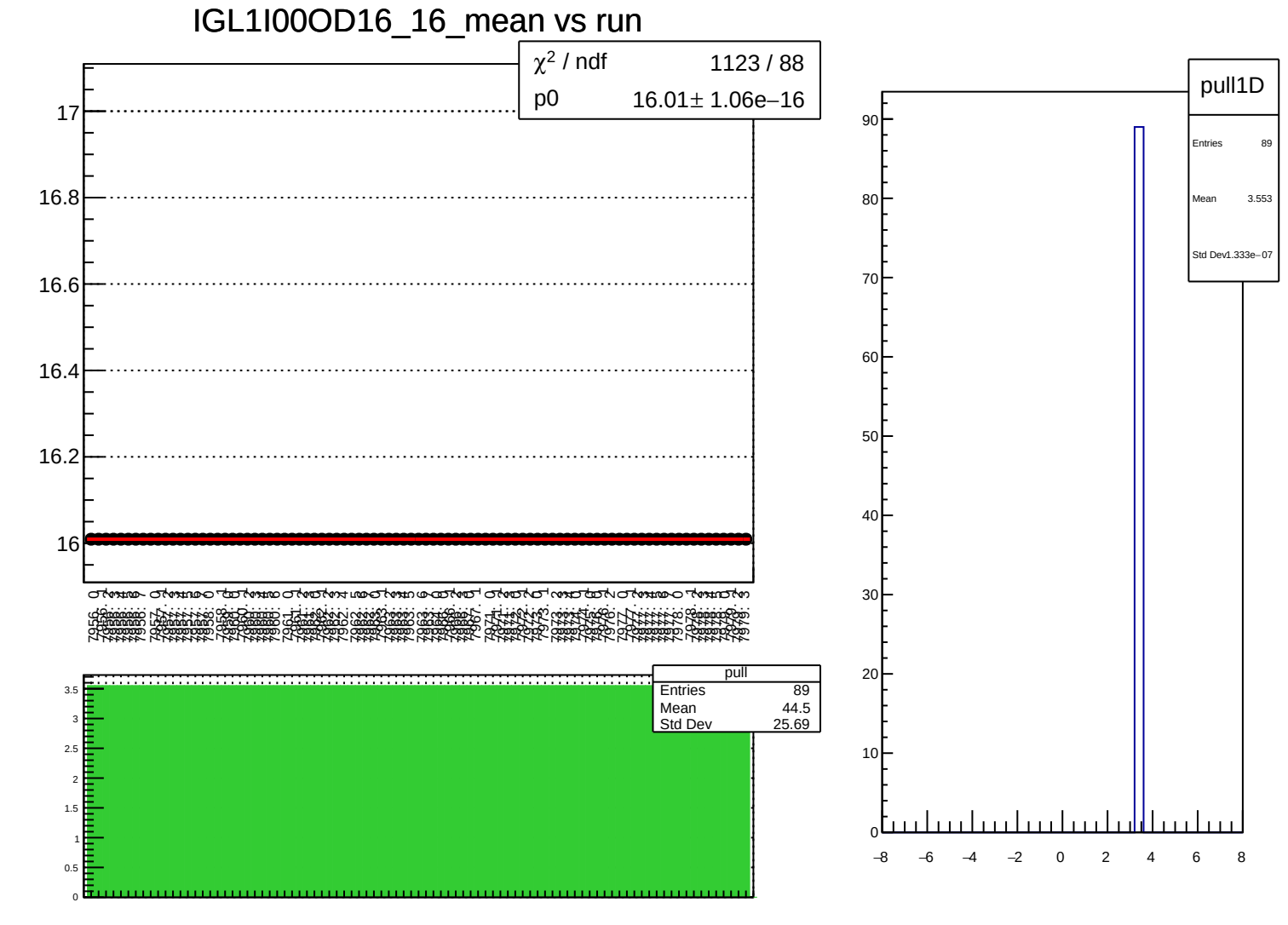

HWienAngle_mean vs run
χ² / ndf 3.64e+05 / 88
p0 −29.64 ± 1.06e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

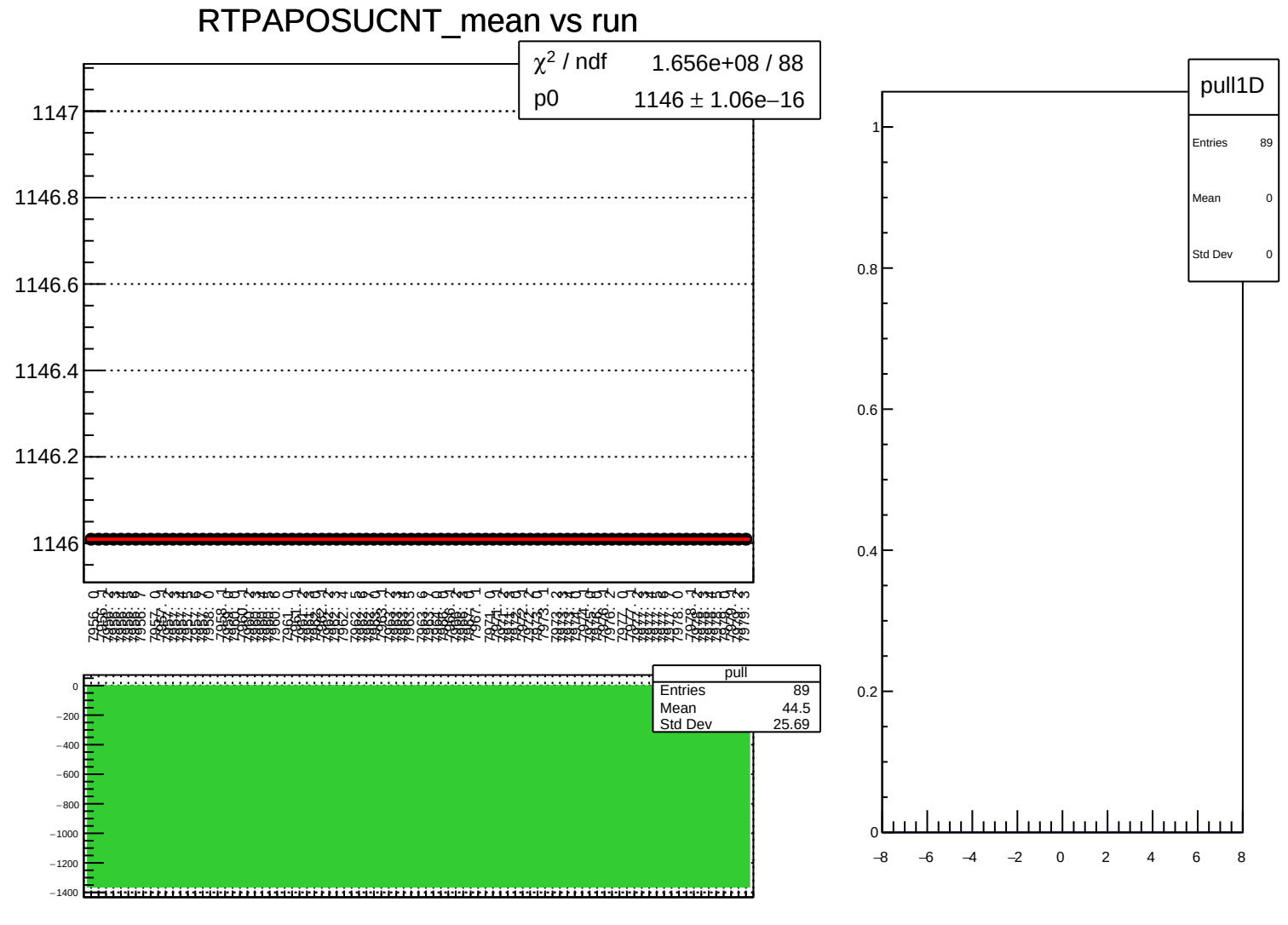

psub_pl_pos_mean vs run
χ² / ndf 1.491e+09 / 88
p0 1500 ± 1.06e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 89
Mean 44.5
Std Dev 25.69
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

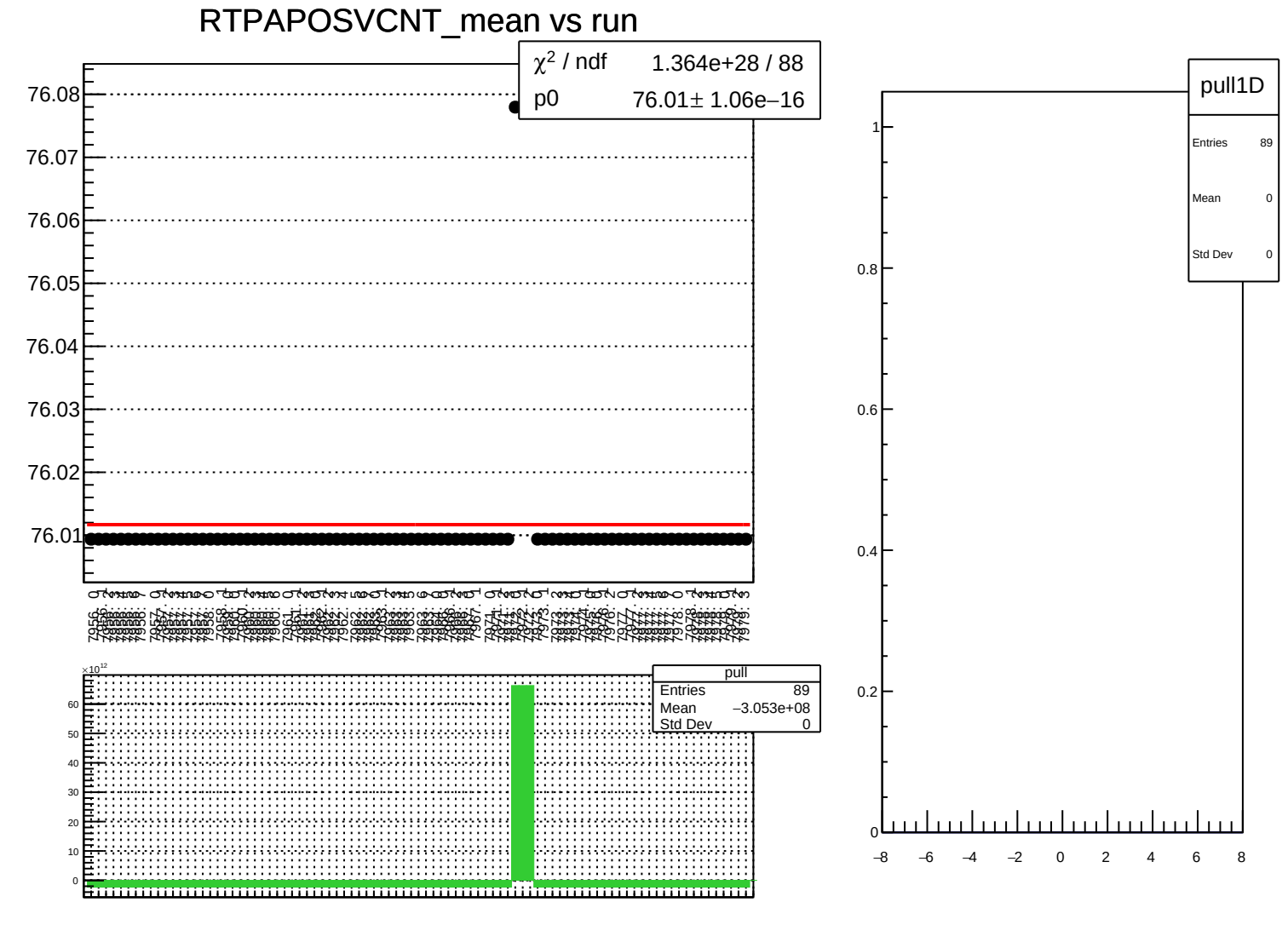

Phi_FG_mean vs run
χ² / ndf 6.47e+05 / 88
p0 89.96 ± 1.06e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 89
Mean 44.5
Std Dev 25.69
80
70
60
50
40
30
20
10
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

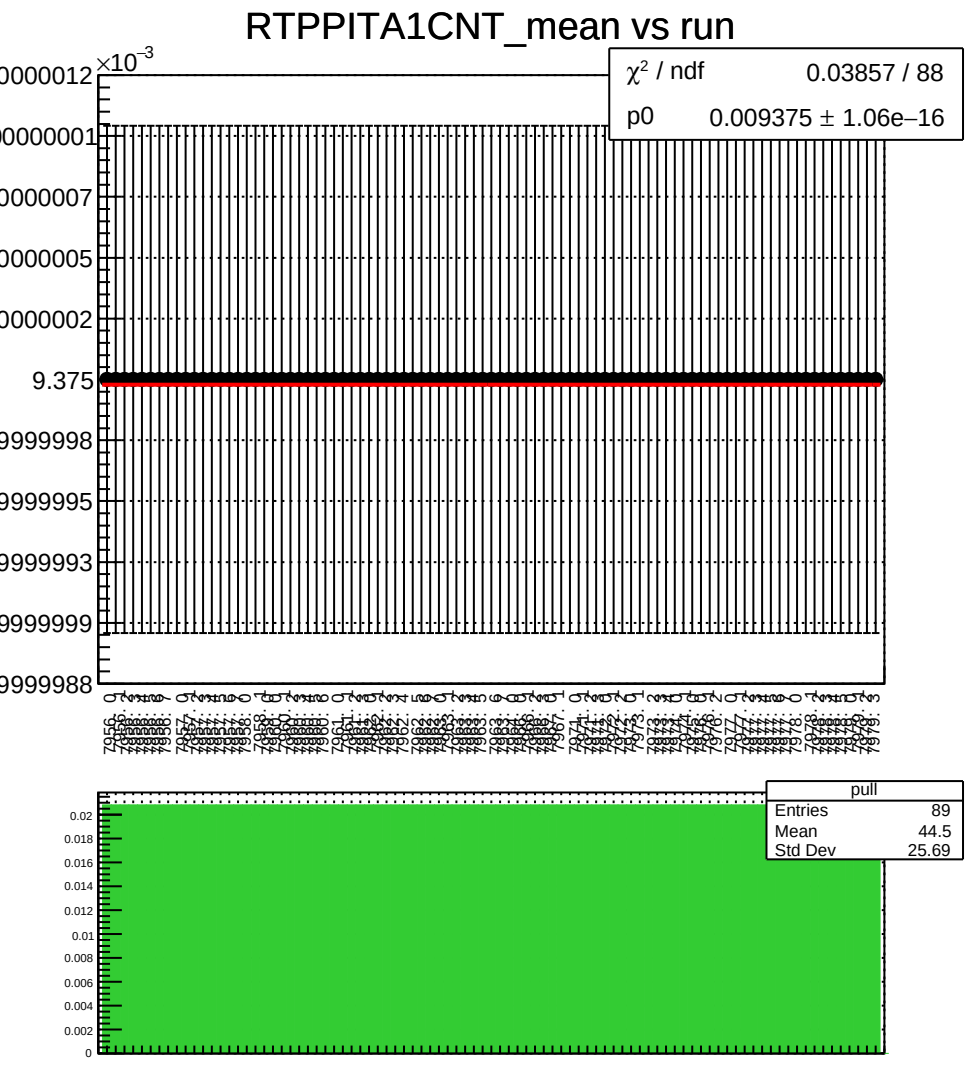

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.778e+25 / 88
p0 17.01± 1.06e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 89
Mean −1.704e+08
Std Dev 0
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400

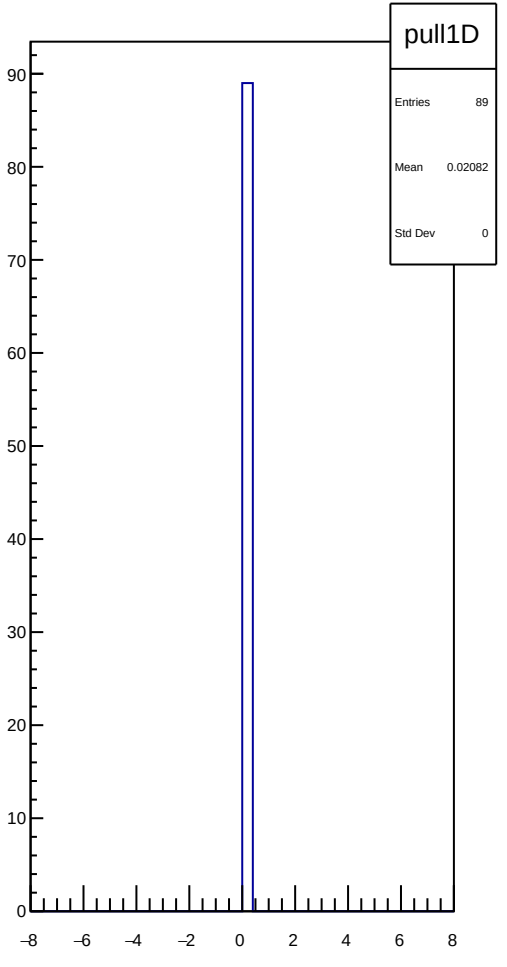

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

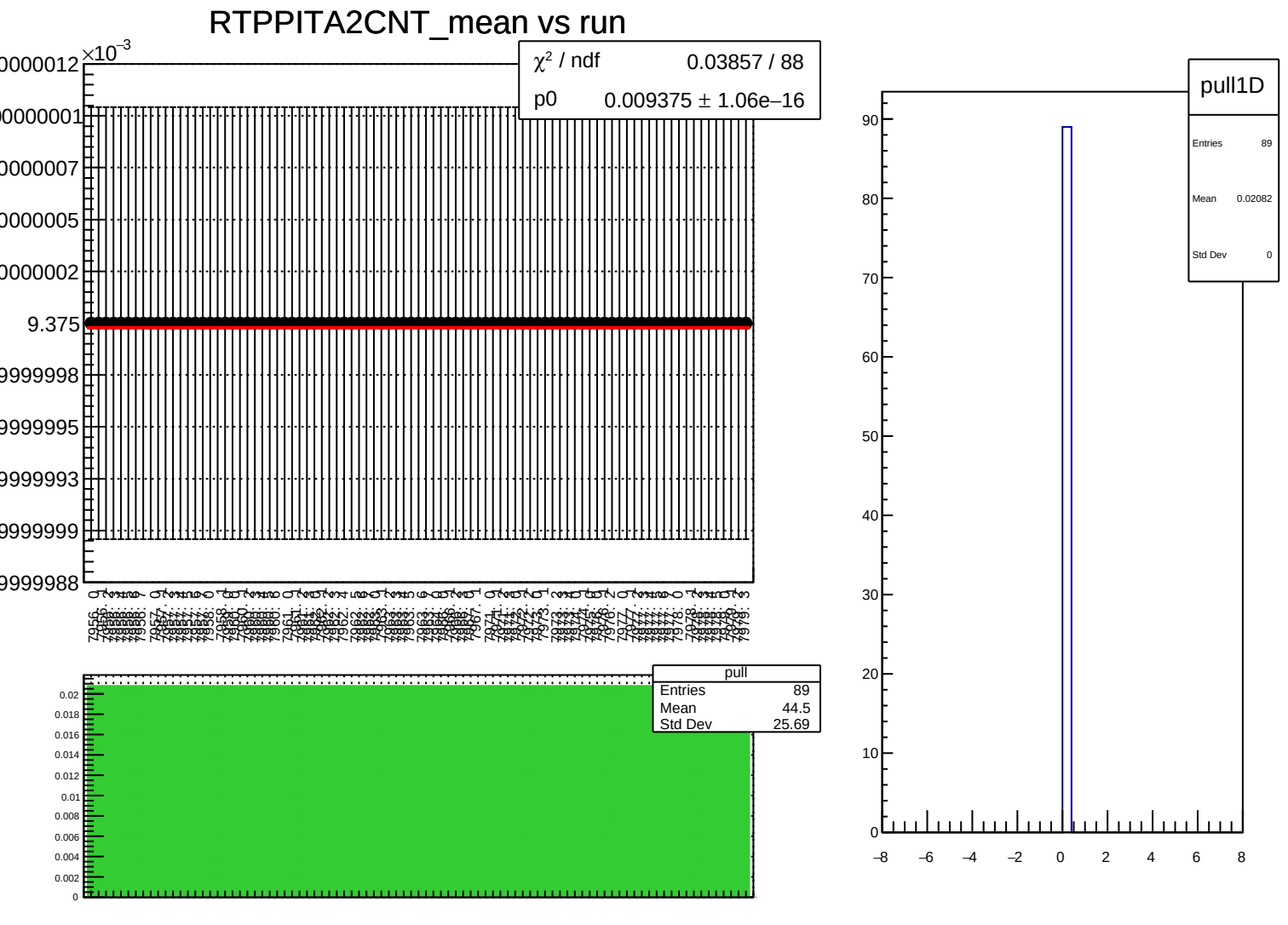

IGL1I00OD16_16_mean vs run
χ² / ndf 1123 / 88
p0 16.01± 1.06e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 89
Mean 44.5
Std Dev 25.69
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 89
Mean 3.553
Std Dev1.333e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 1.656e+08 / 88
p0 1146 ± 1.06e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 89
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 1.364e+28 / 88
p0 76.01± 1.06e−16
76.08
76.07
76.06
76.05
76.04
76.03
76.02
76.01
pull
Entries 89
Mean −3.053e+08
Std Dev 0
×10¹²
60
50
40
30
20
10
0
pull1D
Entries 89
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 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69


pull1D
Entries 89
Mean 0.02082
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0