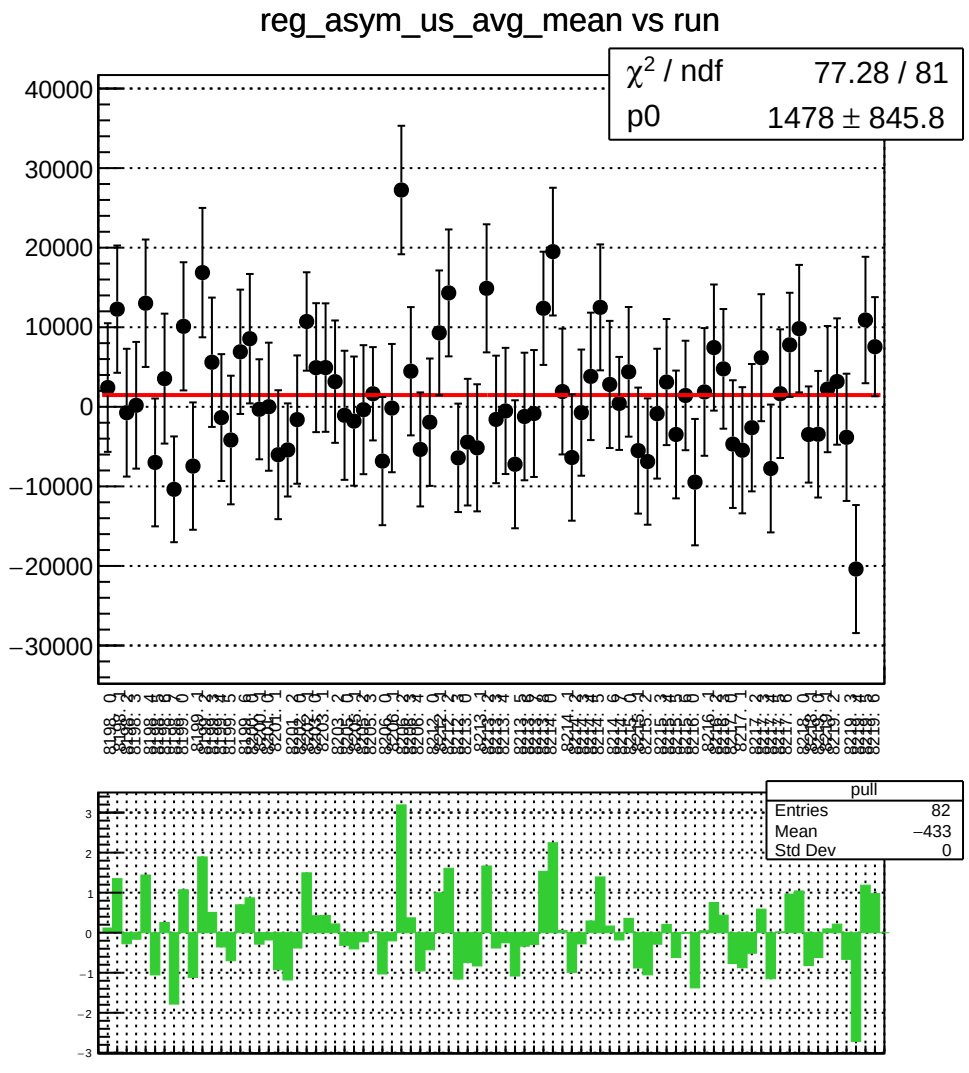
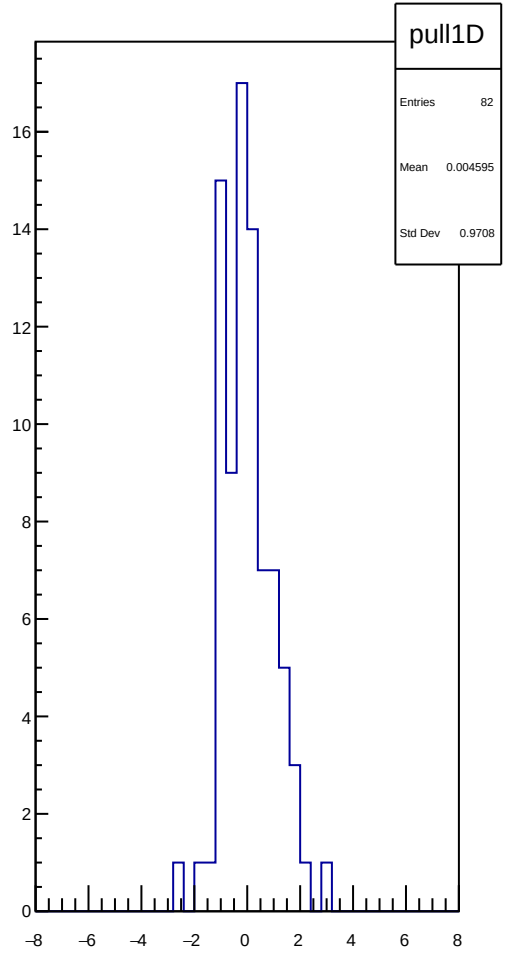
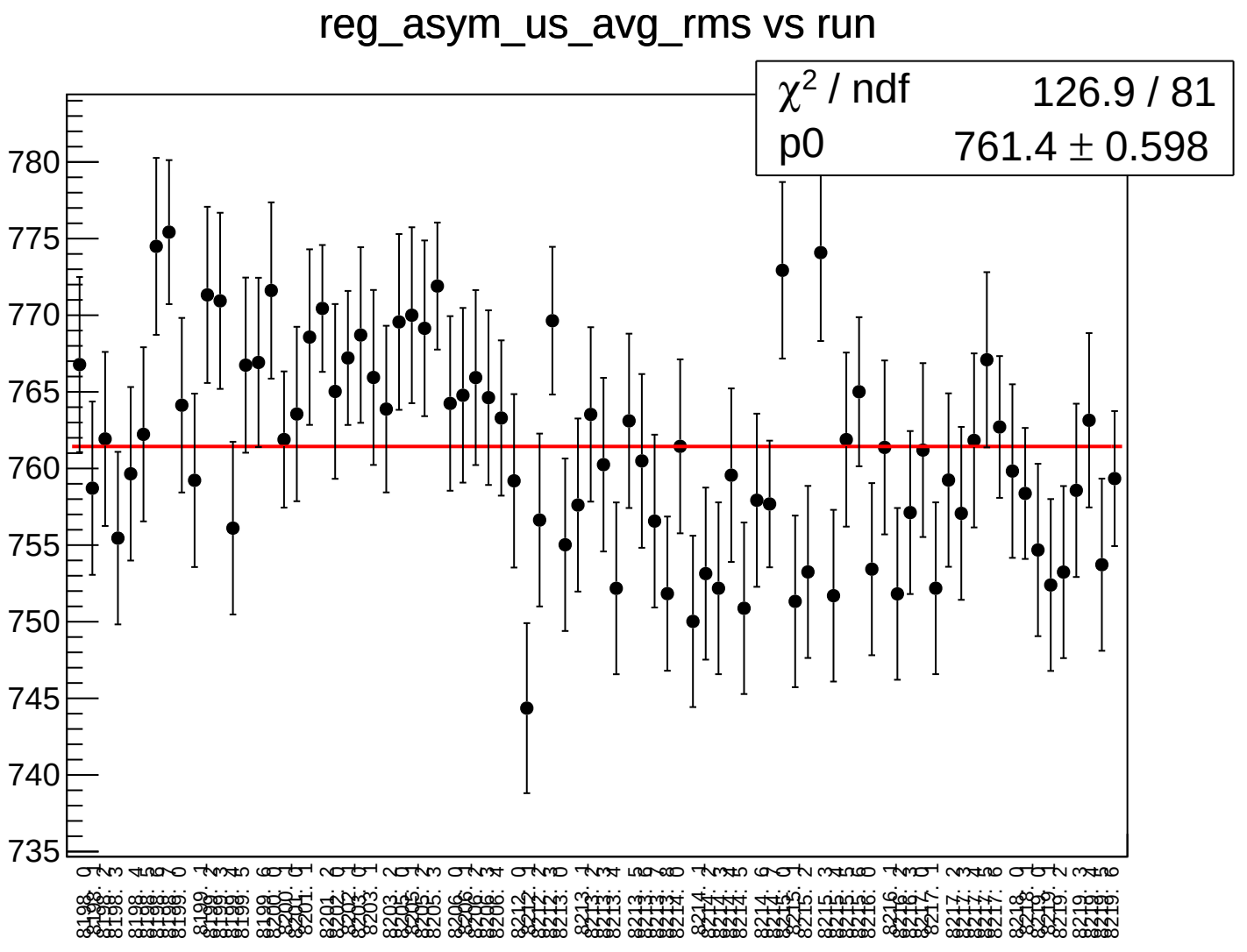
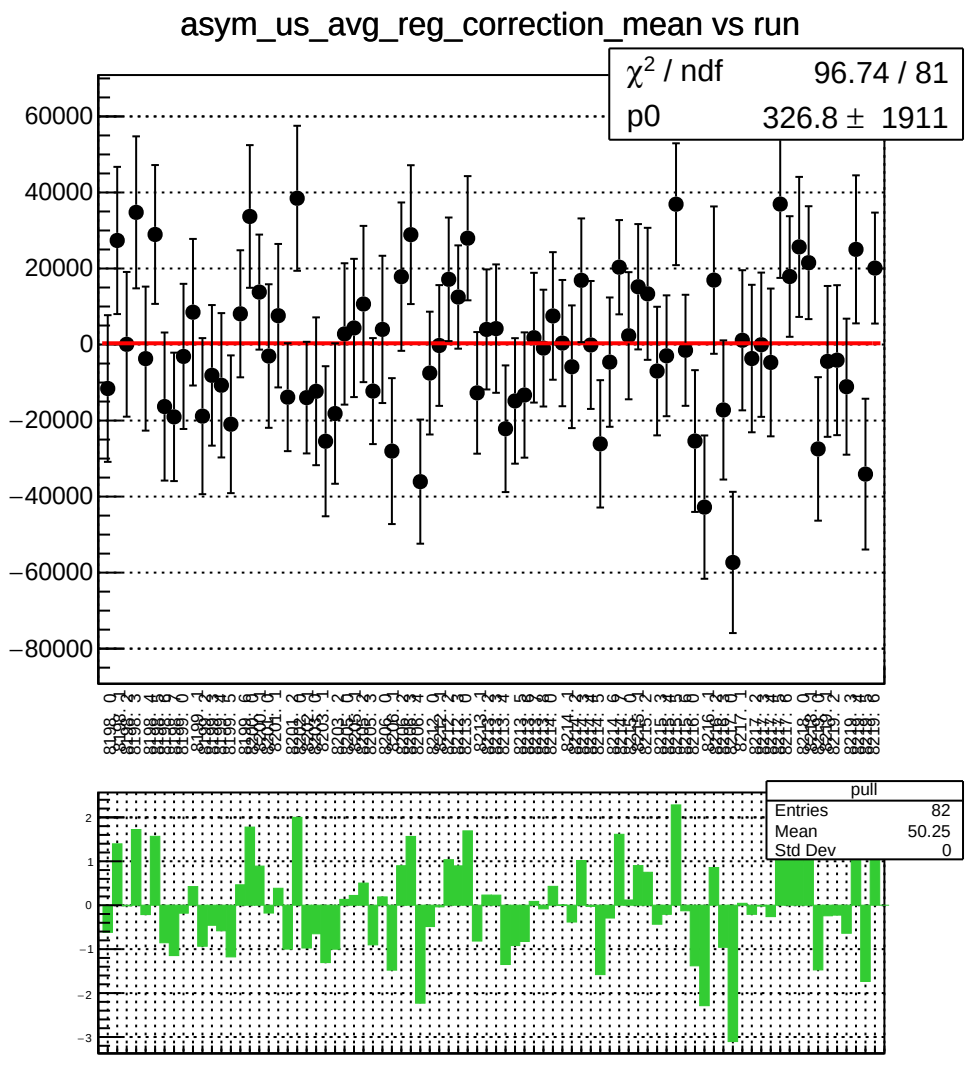
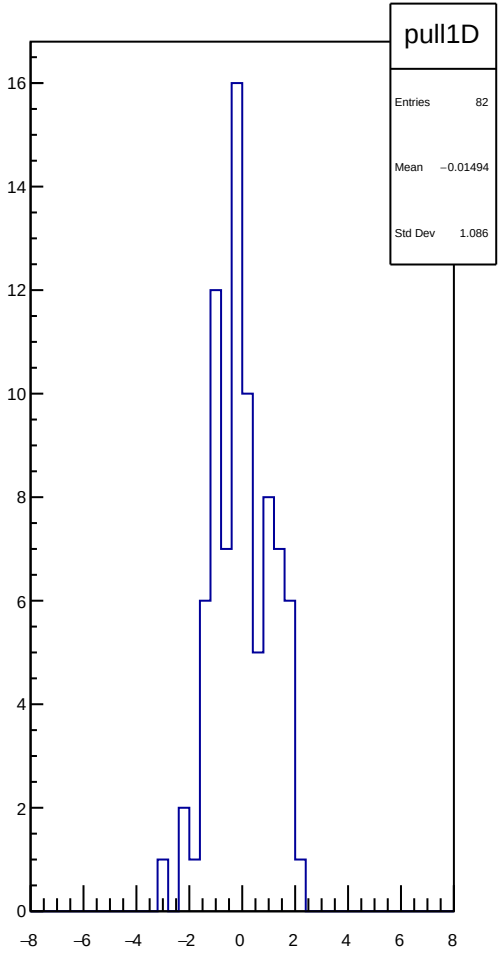
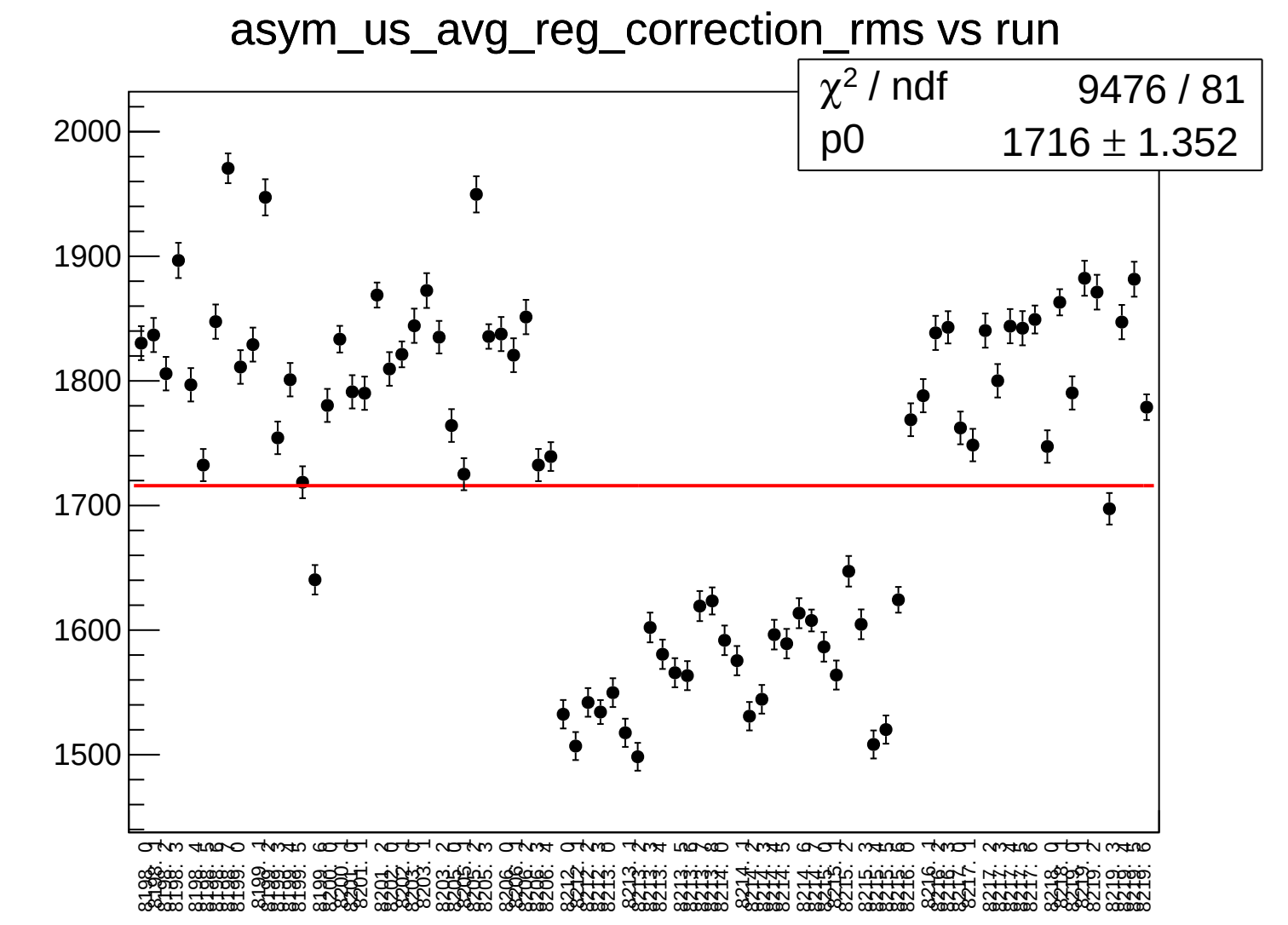

reg_asym_us_avg_mean vs run
χ² / ndf 77.28 / 81
p0 1478 ± 845.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −433
Std Dev 0
3
2
1
0
−1
−2
−3

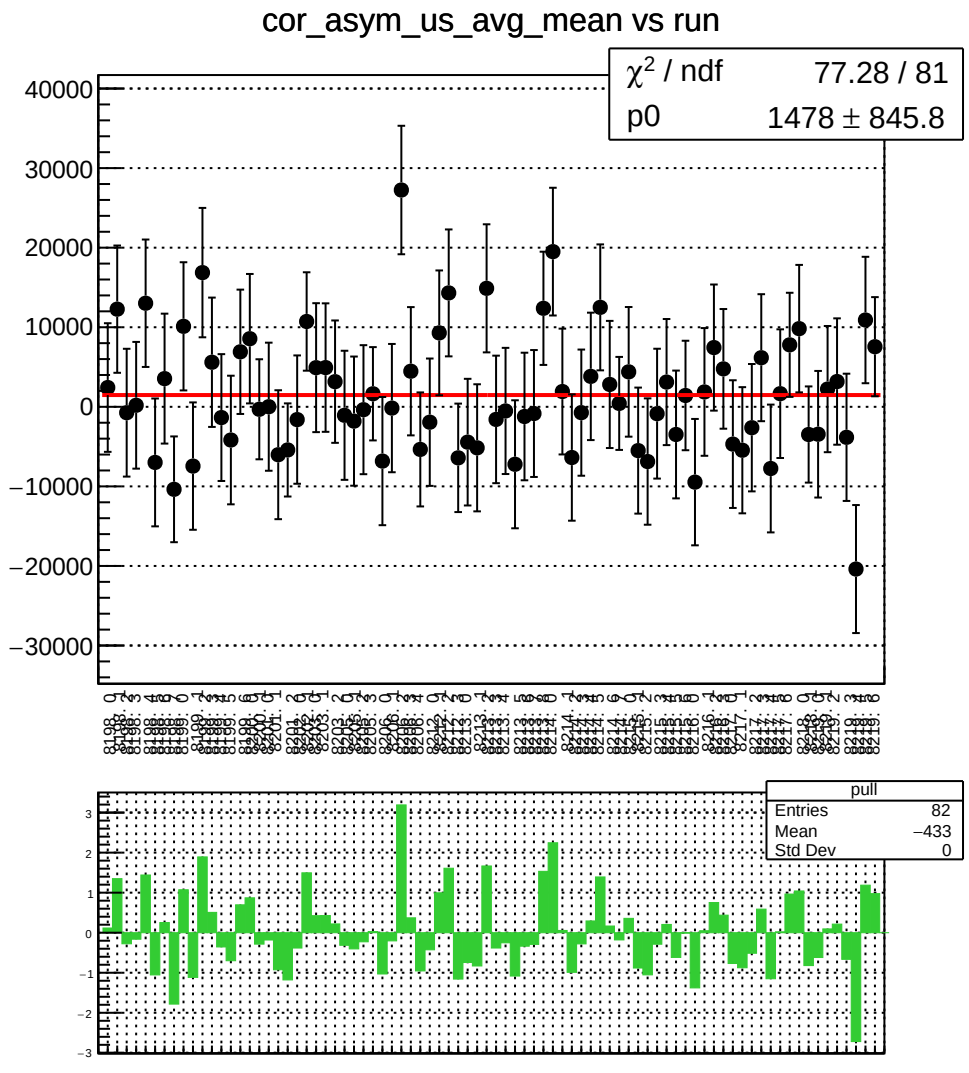

pull1D
Entries 82
Mean 0.004595
Std Dev 0.9708
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

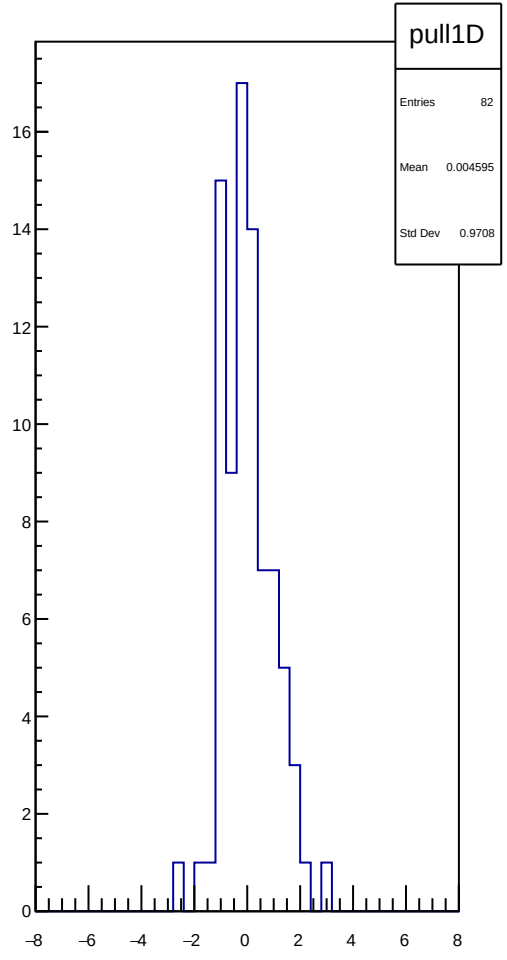

reg_asym_us_avg_rms vs run
$\chi^2$ / ndf 126.9 / 81
p0 761.4 ± 0.598
780
775
770
765
760
755
750
745
740
735


asym_us_avg_reg_correction_mean vs run
χ² / ndf 96.74 / 81
p0 326.8 ± 1911
pull
Entries 82
Mean 50.25
Std Dev 0


pull1D
Entries 82
Mean −0.01494
Std Dev 1.086


asym_us_avg_reg_correction_rms vs run
χ² / ndf 9476 / 81
p0 1716 ± 1.352
2000
1900
1800
1700
1600
1500


cor_asym_us_avg_mean vs run
χ² / ndf 77.28 / 81
p0 1478 ± 845.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −433
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.004595
Std Dev 0.9708
16
14
12
10
8
6
4
2
0
−8
−6
−4
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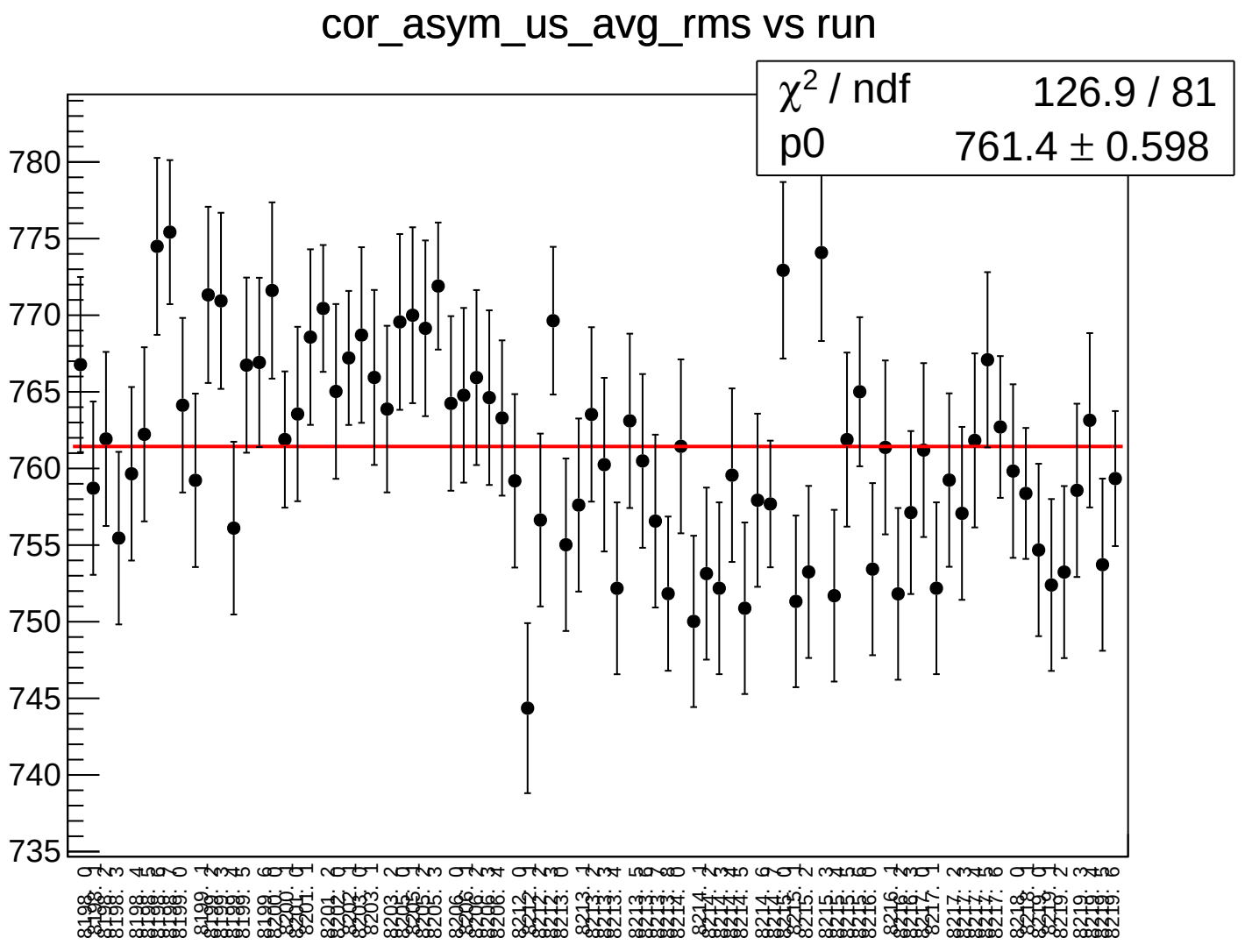
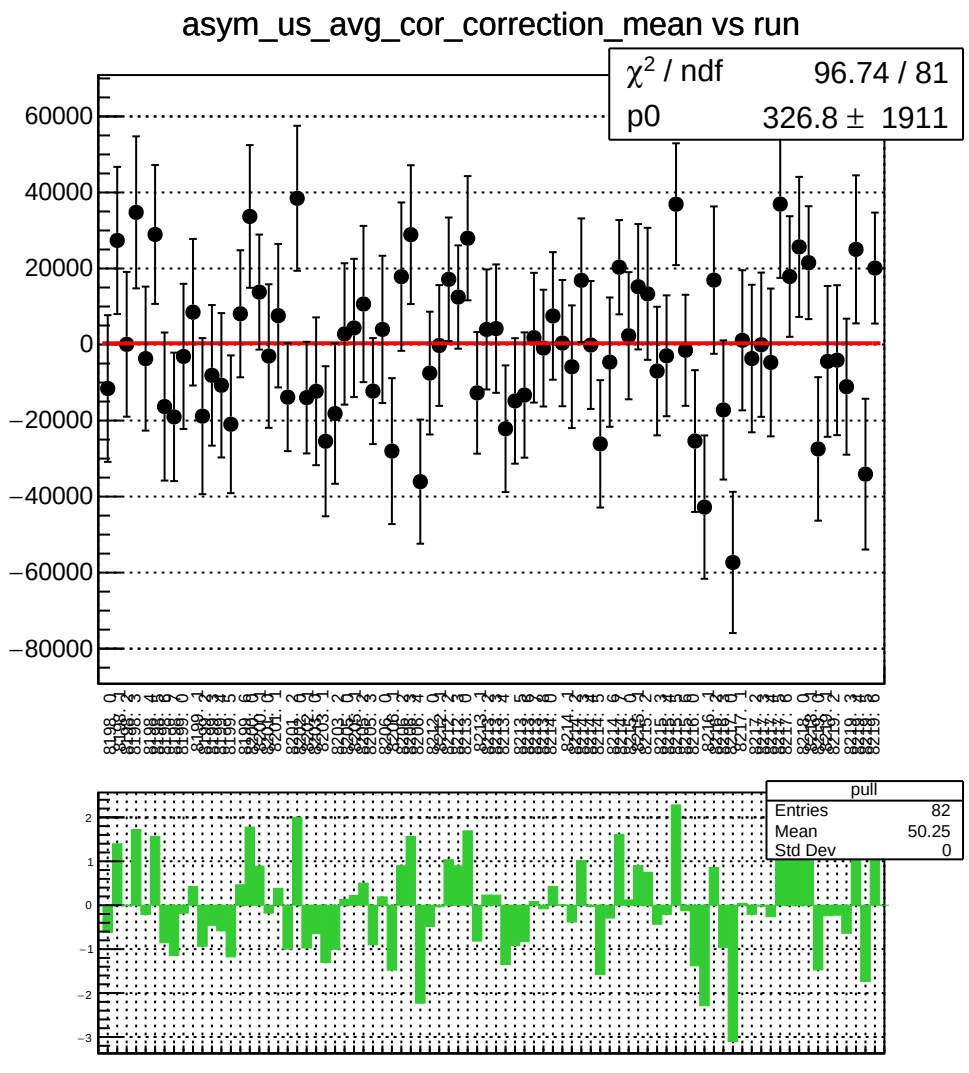
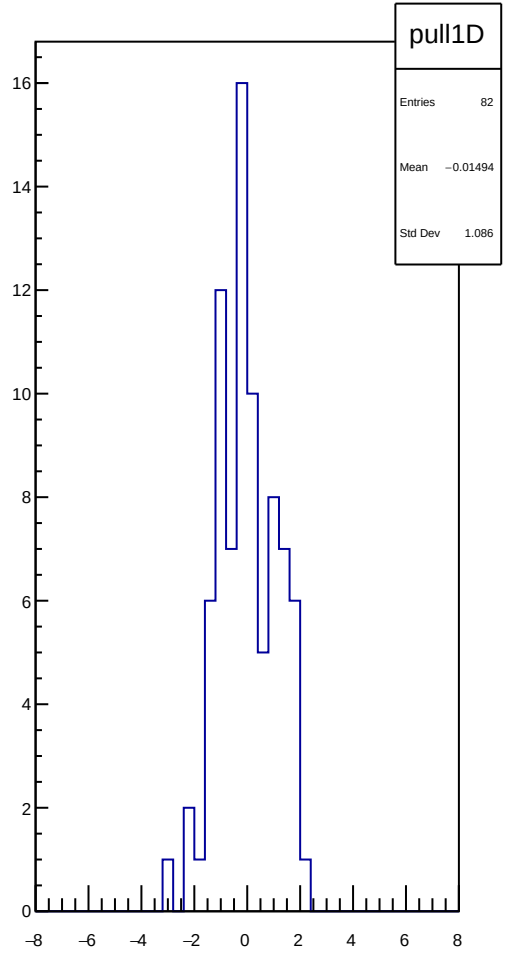
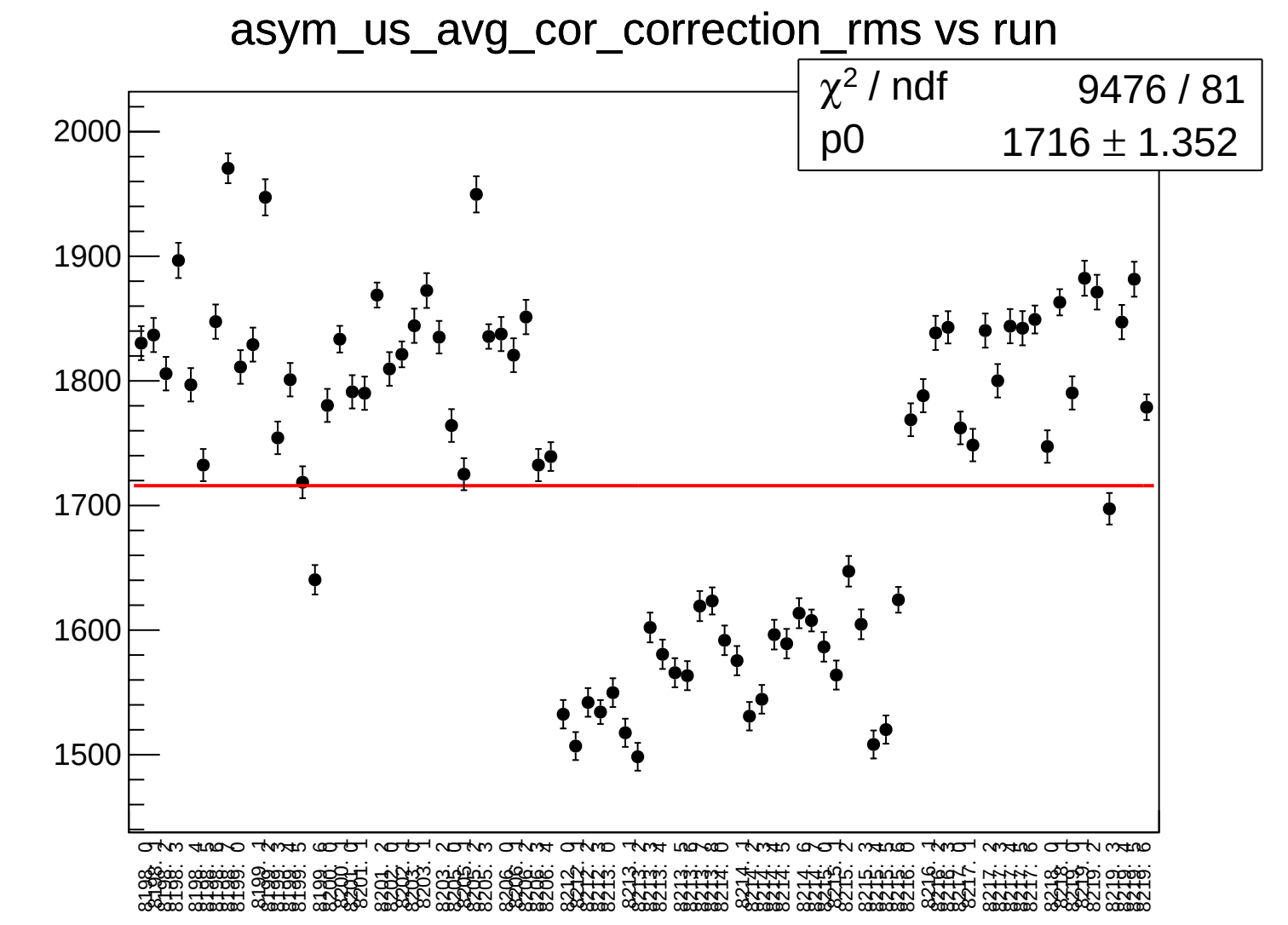
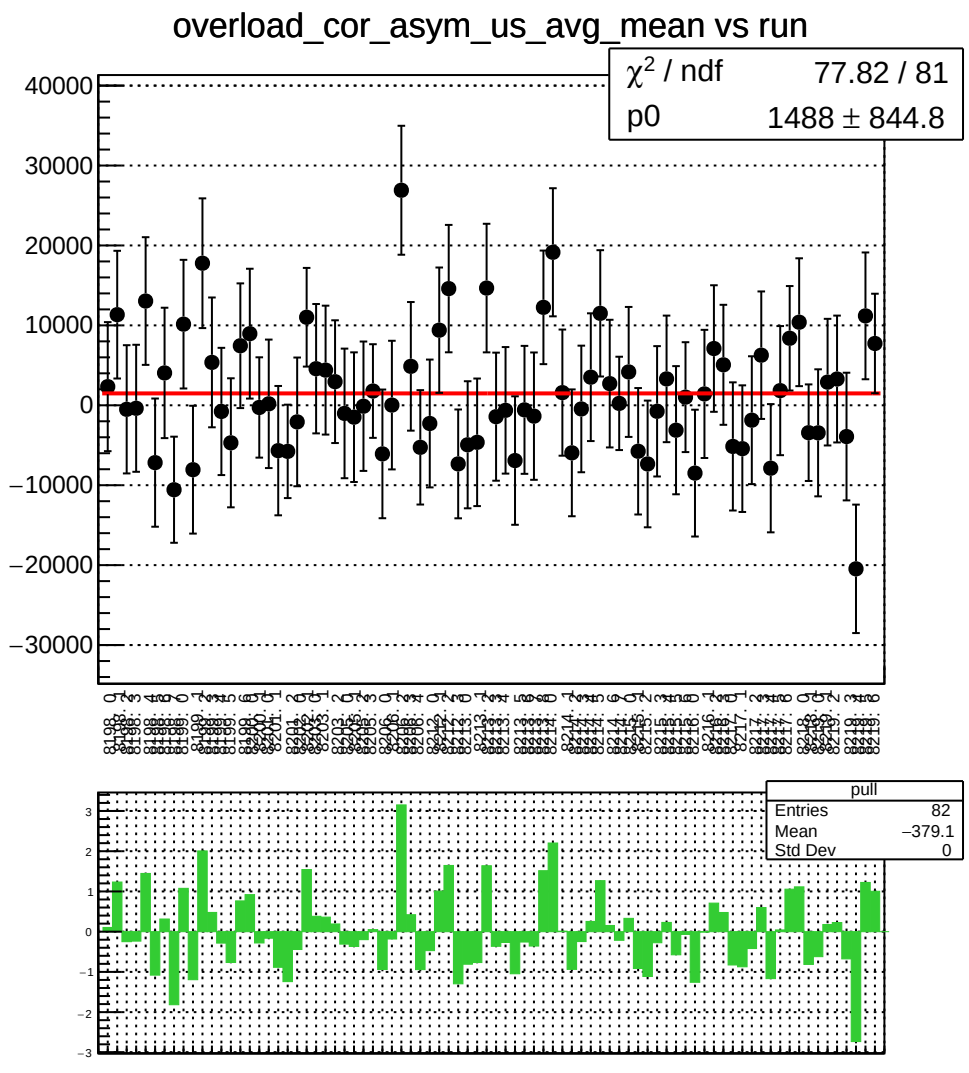
0
2
4
6
8

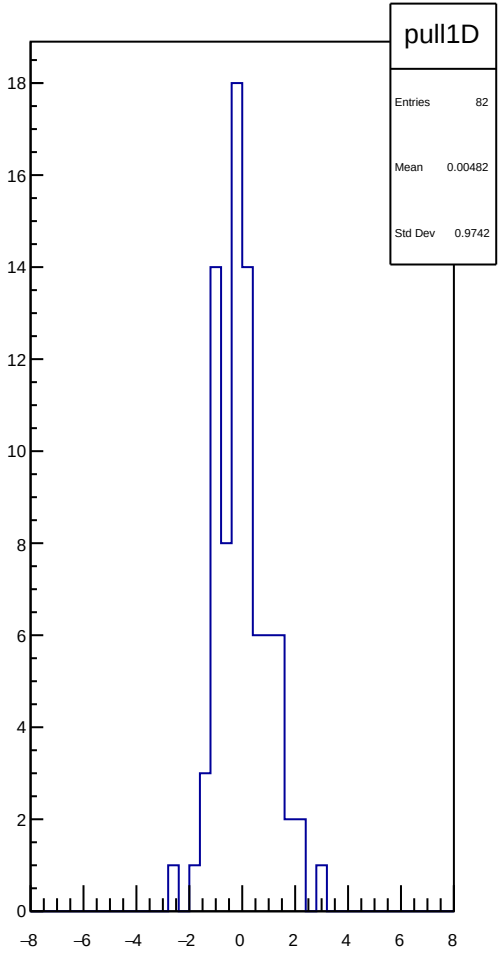

cor_asym_us_avg_rms vs run
$\chi^2$ / ndf 126.9 / 81
p0 761.4 ± 0.598
780
775
770
765
760
755
750
745
740
735

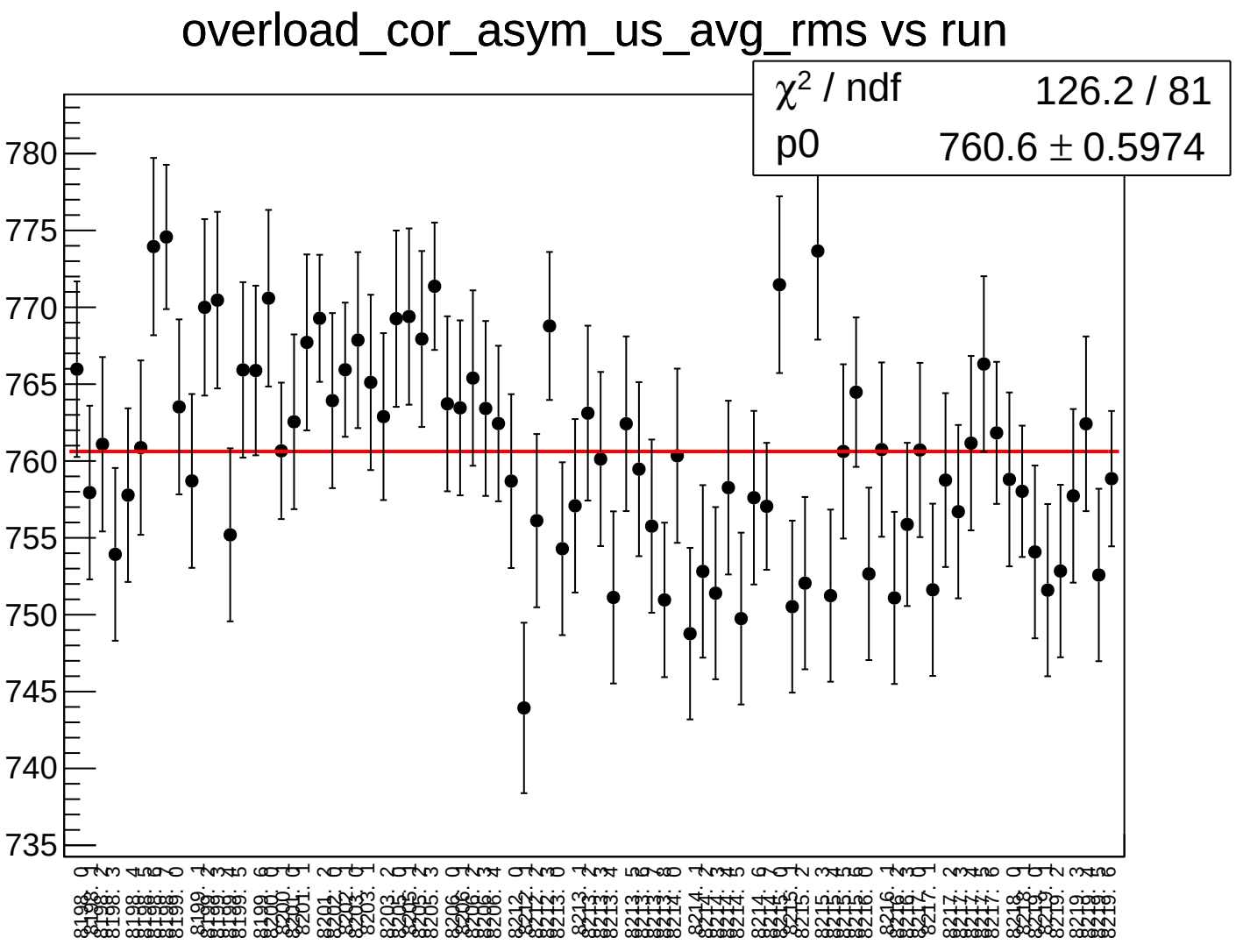

asym_us_avg_cor_correction_mean vs run
χ² / ndf 96.74 / 81
p0 326.8 ± 1911
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 50.25
Std Dev 0
2
1
0
−1
−2
−3

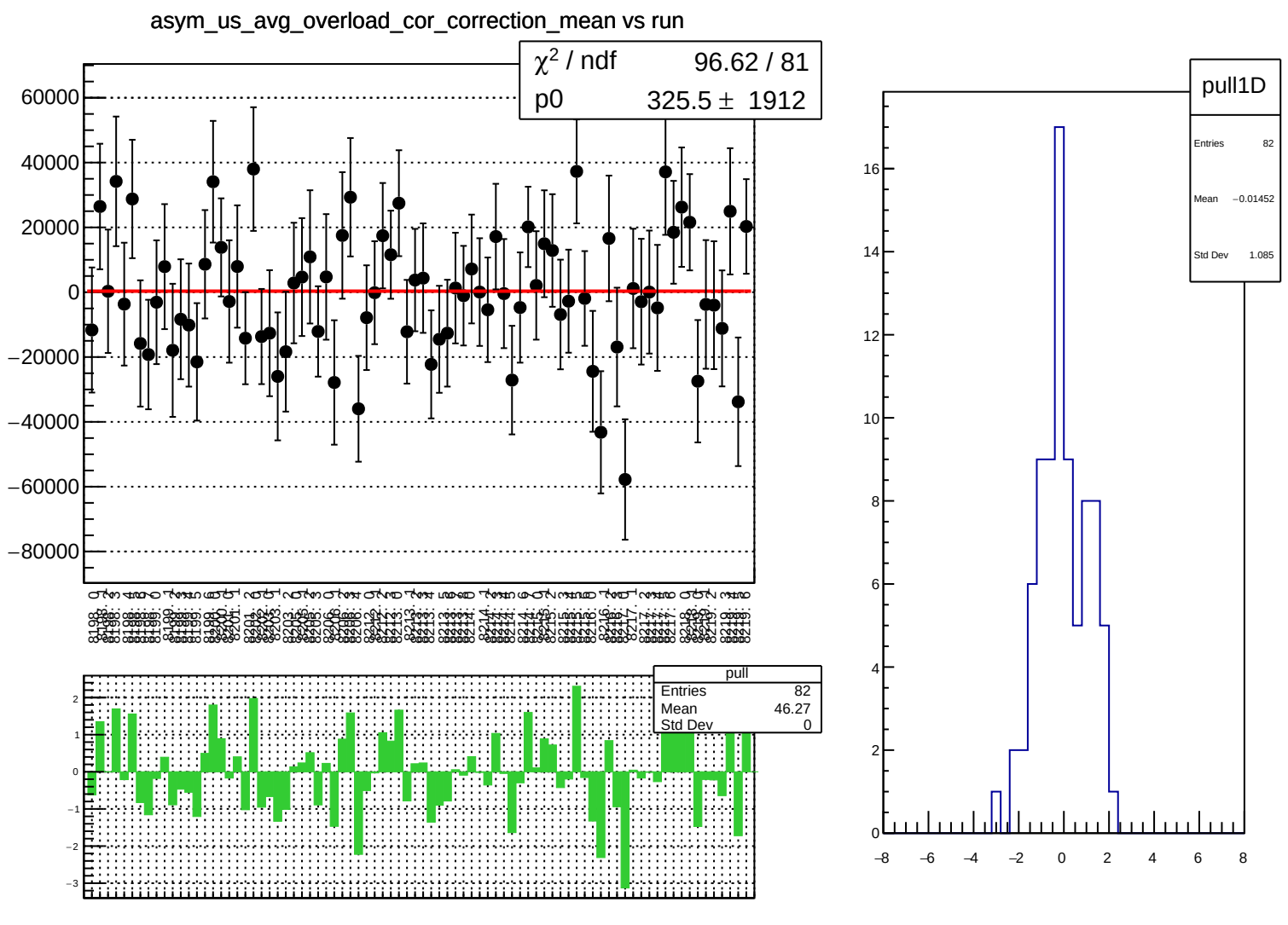

pull1D
Entries 82
Mean −0.01494
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

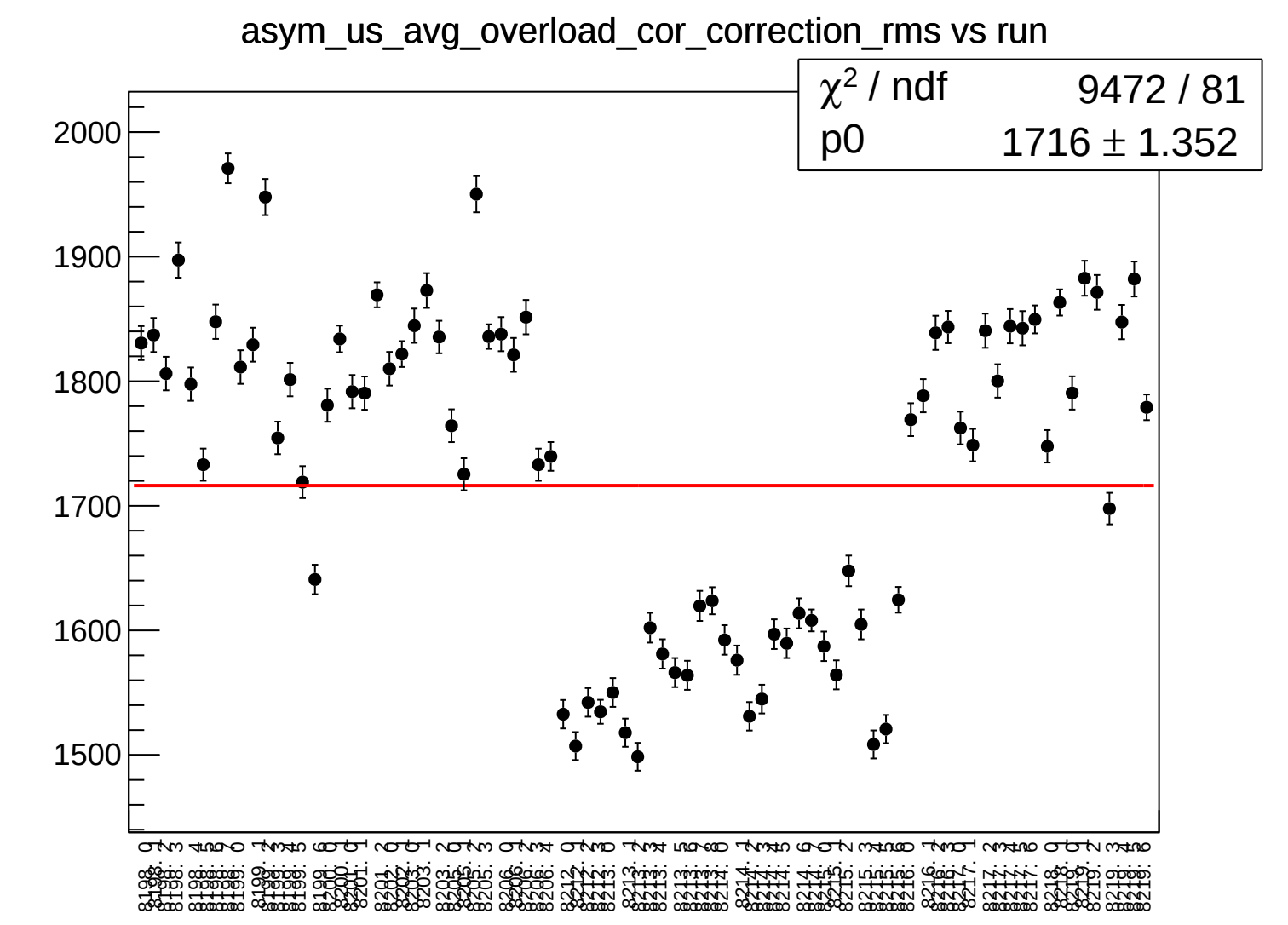

asym_us_avg_cor_correction_rms vs run
χ² / ndf 9476 / 81
p0 1716 ± 1.352
2000
1900
1800
1700
1600
1500

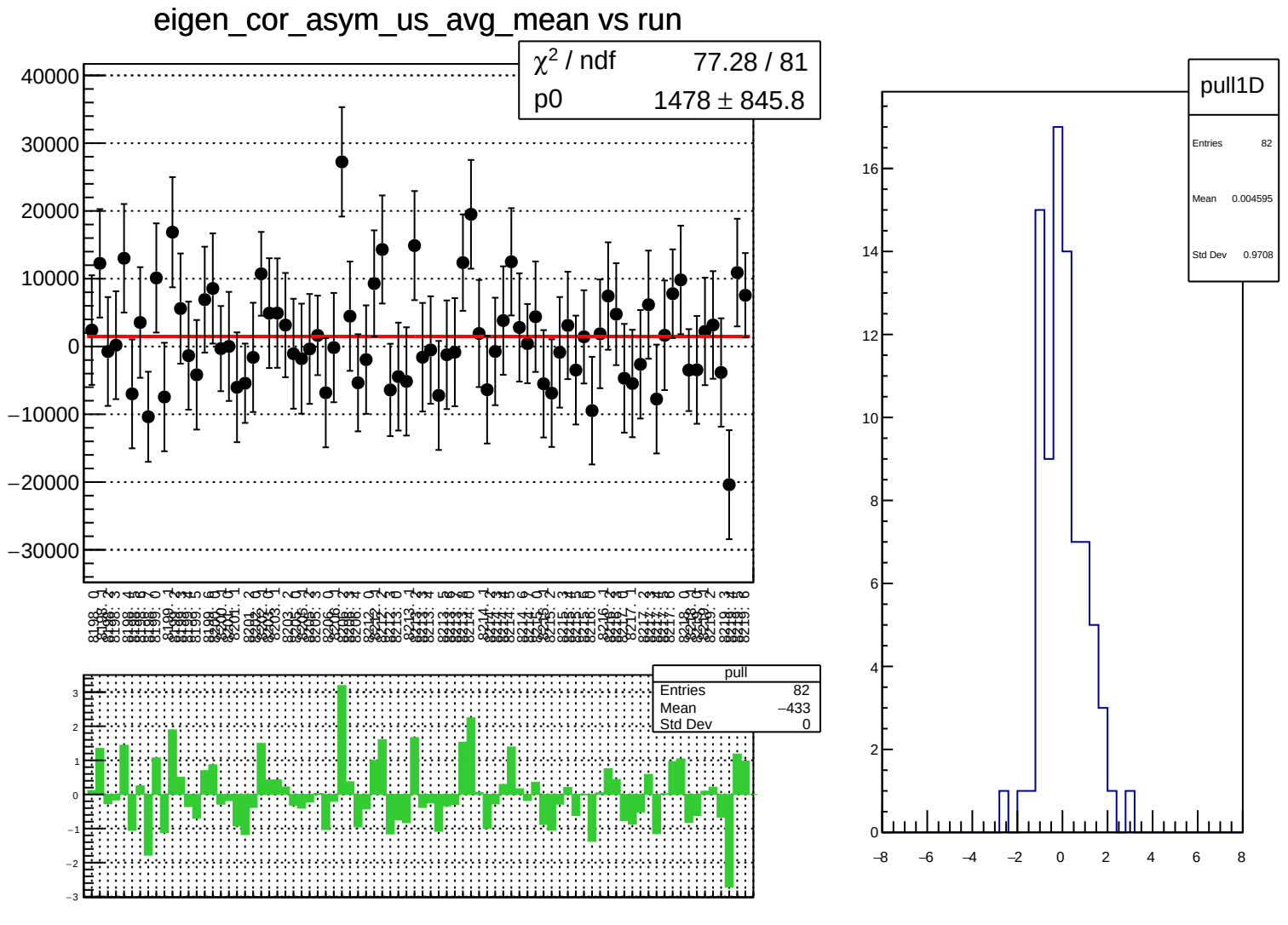

overload_cor_asym_us_avg_mean vs run
χ² / ndf 77.82 / 81
p0 1488 ± 844.8
pull
Entries 82
Mean −379.1
Std Dev 0

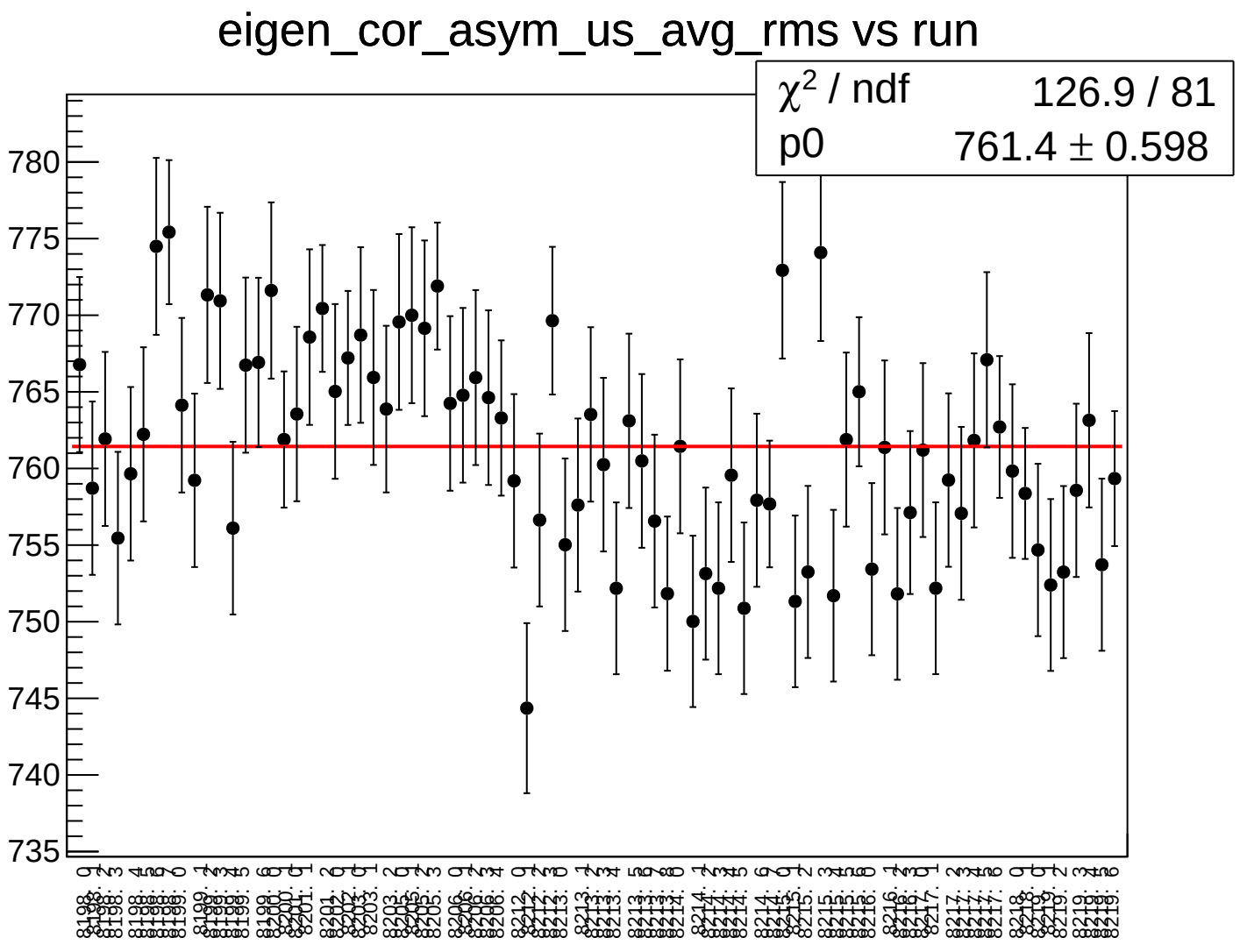

pull1D
Entries 82
Mean 0.00482
Std Dev 0.9742

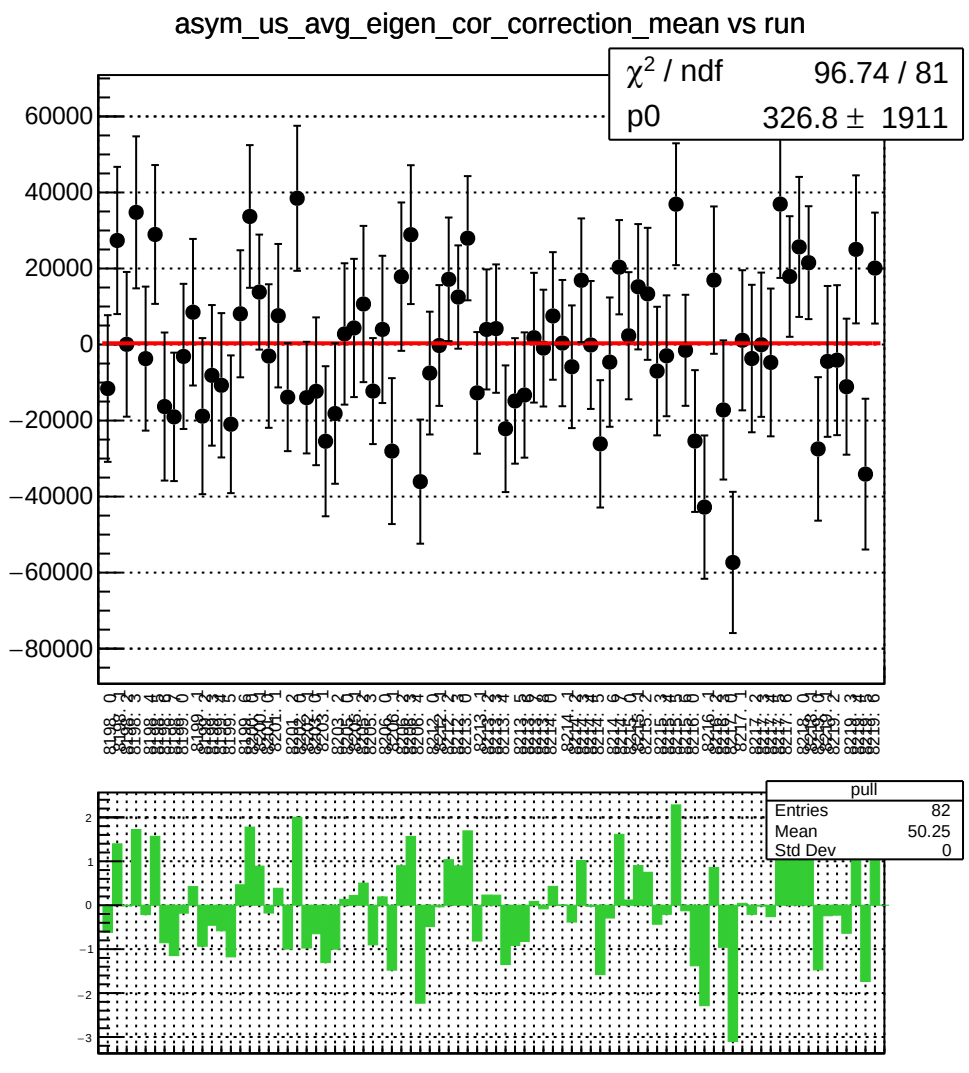

overload_cor_asym_us_avg_rms vs run
$\chi^2$ / ndf 126.2 / 81
p0 760.6 ± 0.5974
780
775
770
765
760
755
750
745
740
735

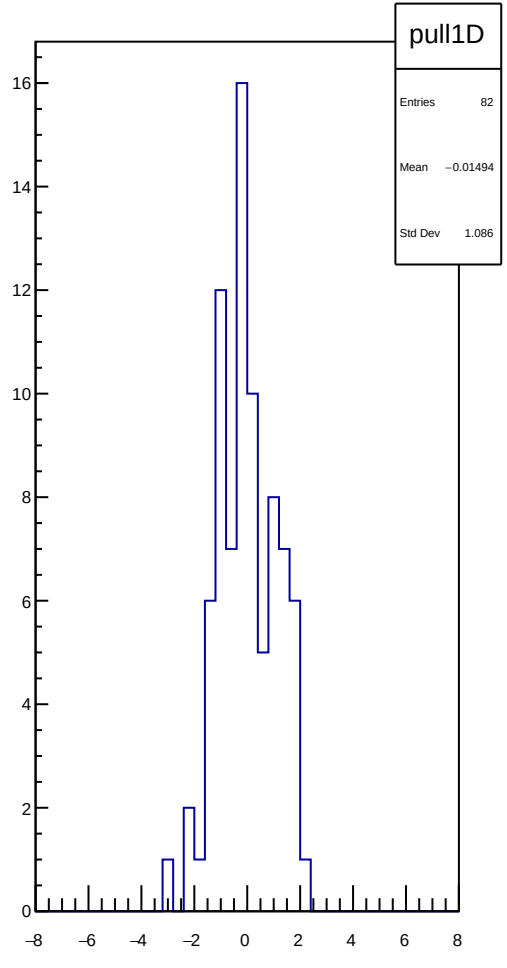

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 96.62 / 81
p0 325.5 ± 1912
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 46.27
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.01452
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

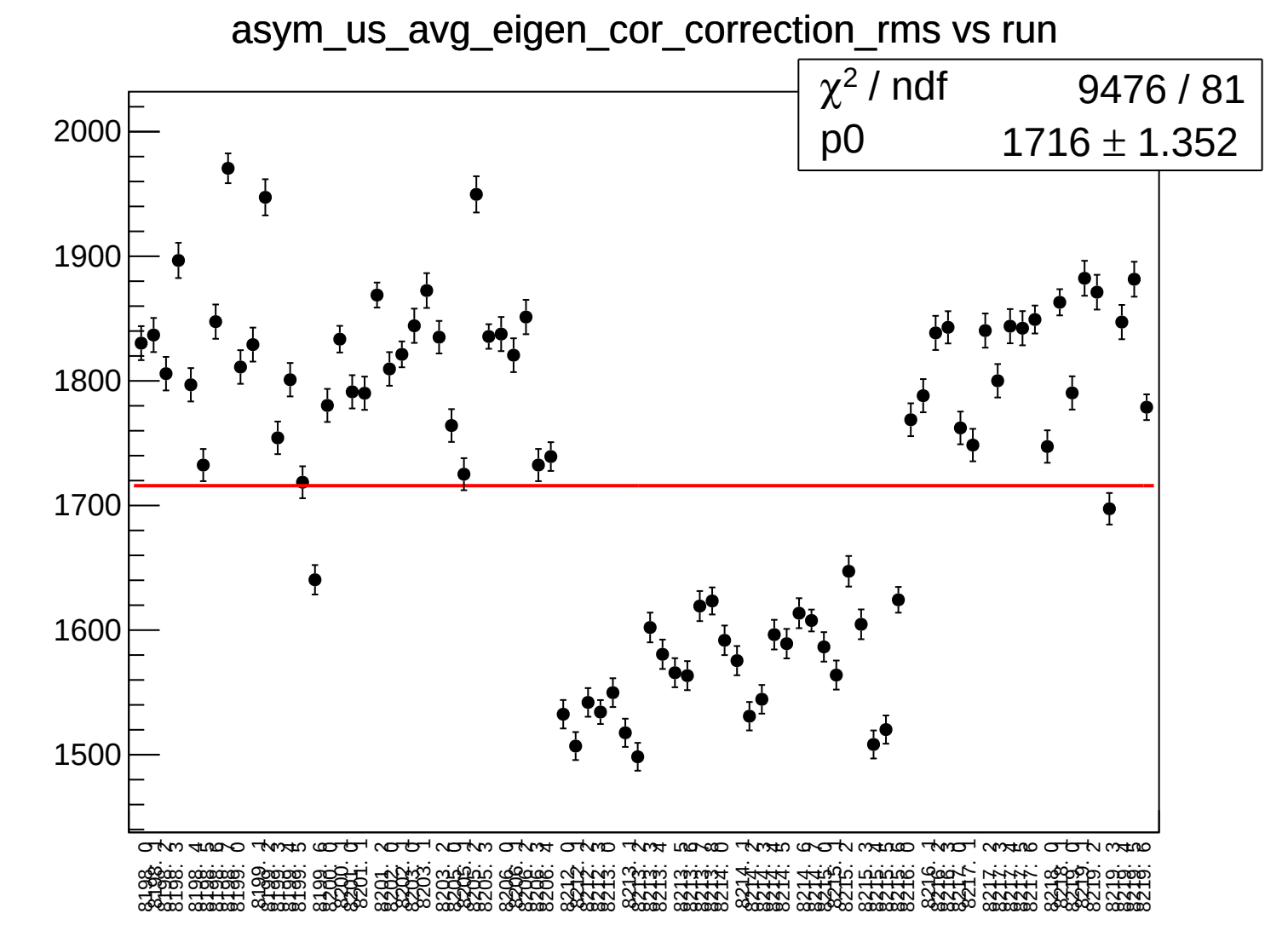

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 9472 / 81
p0 1716 ± 1.352
2000
1900
1800
1700
1600
1500

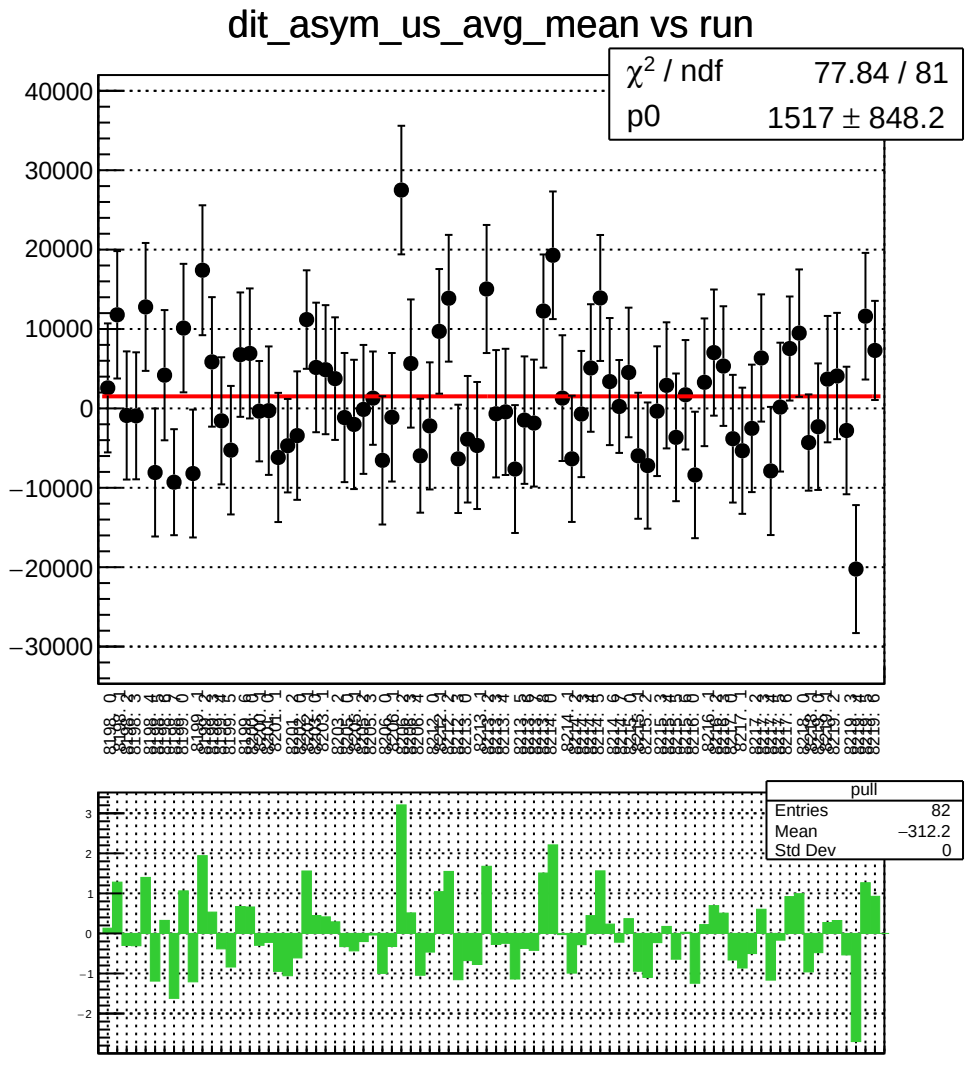

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 77.28 / 81
p0 1478 ± 845.8
pull
Entries 82
Mean −433
Std Dev 0
pull1D
Entries 82
Mean 0.004595
Std Dev 0.9708

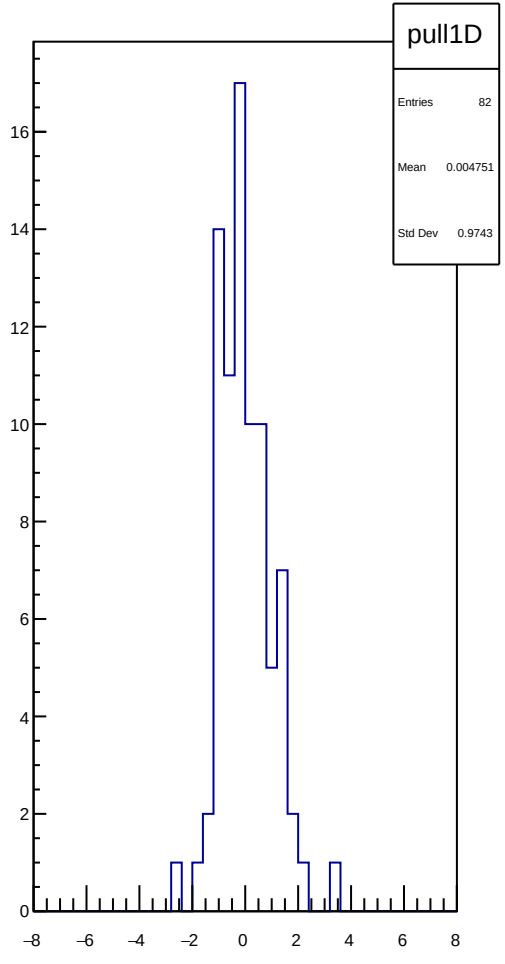

eigen_cor_asym_us_avg_rms vs run
$\chi^2$ / ndf 126.9 / 81
p0 761.4 ± 0.598
780
775
770
765
760
755
750
745
740
735

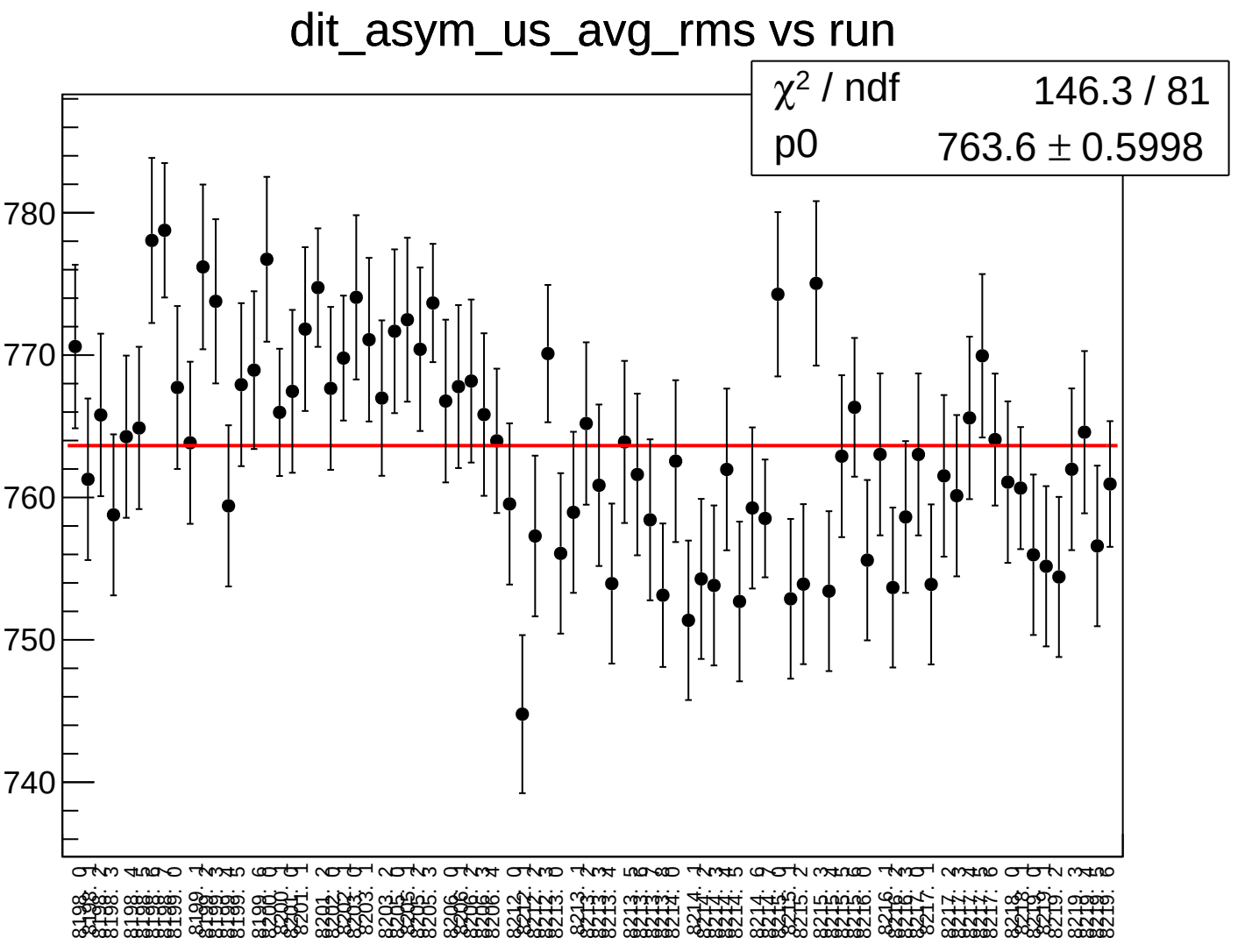

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.74 / 81
p0 326.8 ± 1911
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 50.25
Std Dev 0
2
1
0
−1
−2
−3

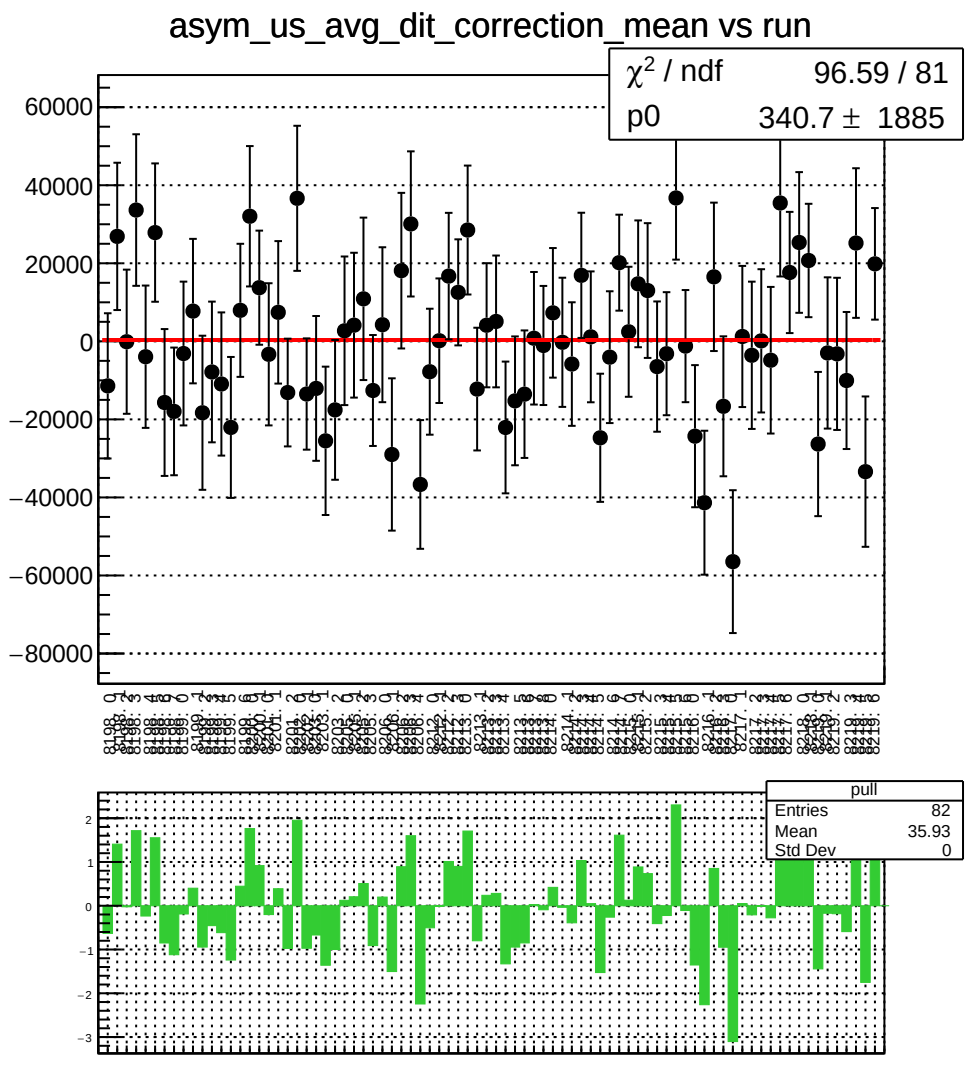

pull1D
Entries 82
Mean −0.01494
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

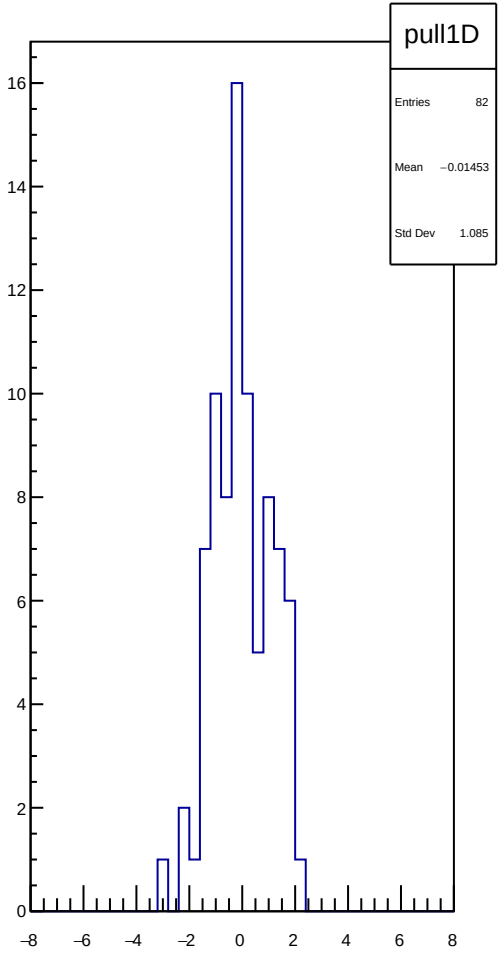

asym_us_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 9476 / 81
p0 1716 ± 1.352
2000
1900
1800
1700
1600
1500

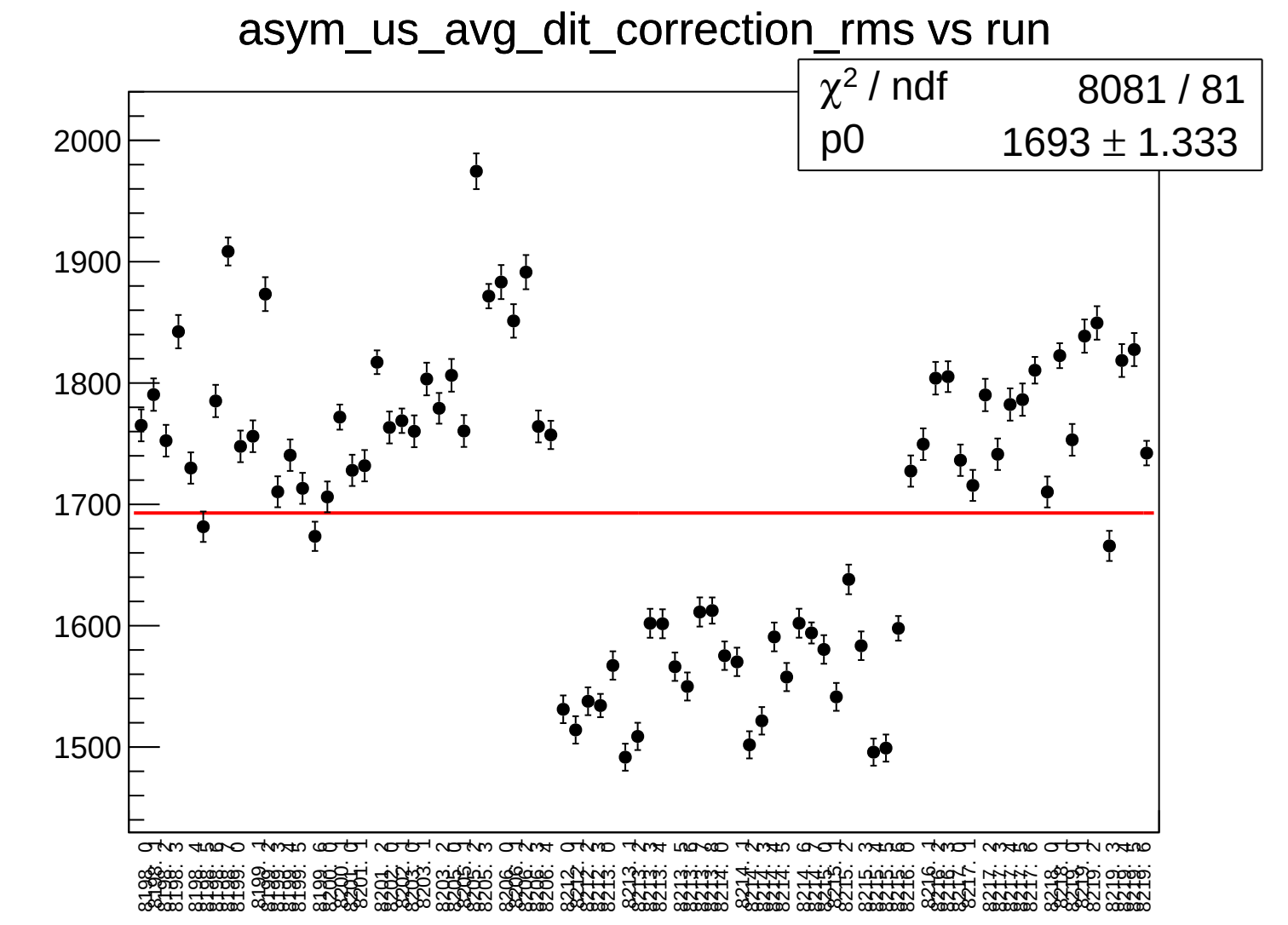

dit_asym_us_avg_mean vs run
χ² / ndf 77.84 / 81
p0 1517 ± 848.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −312.2
Std Dev 0
3
2
1
0
−1
−2

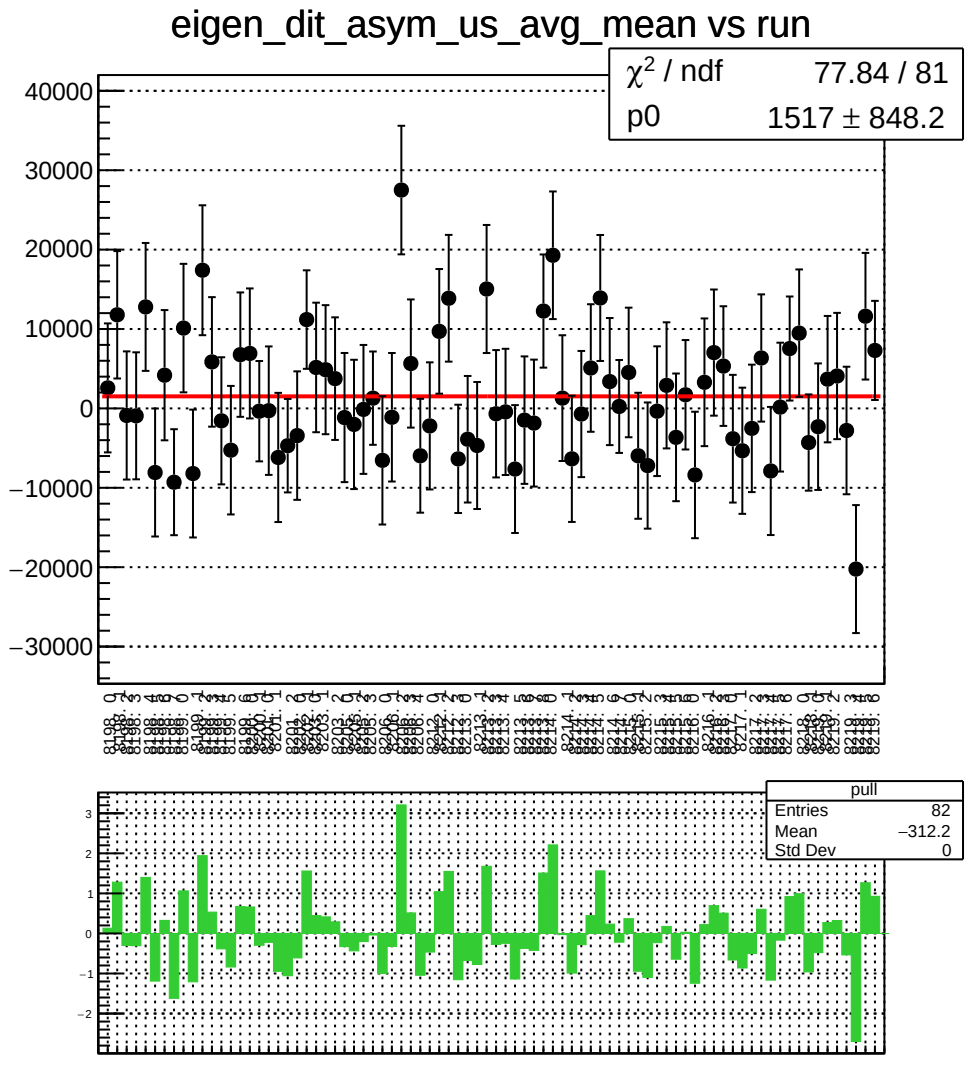

pull1D
Entries 82
Mean 0.004751
Std Dev 0.9743
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

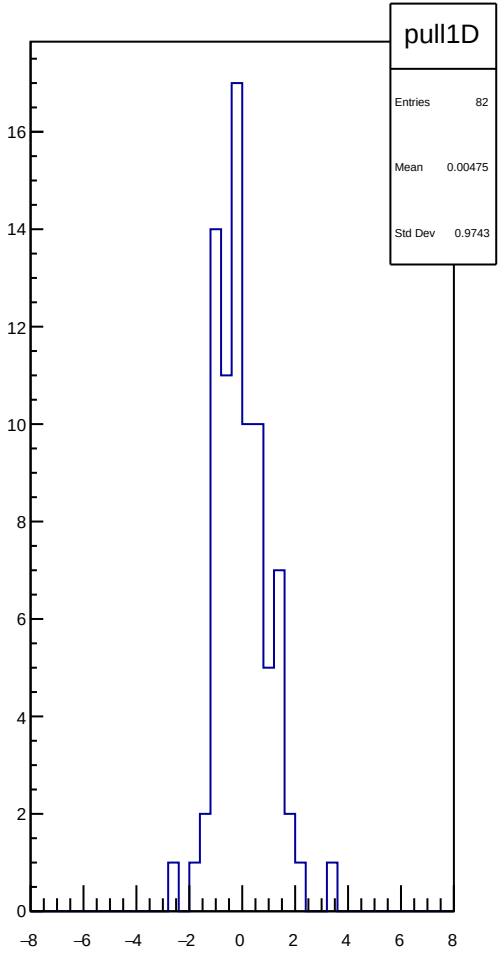

dit_asym_us_avg_rms vs run
χ² / ndf 146.3 / 81
p0 763.6 ± 0.5998
780
770
760
750
740

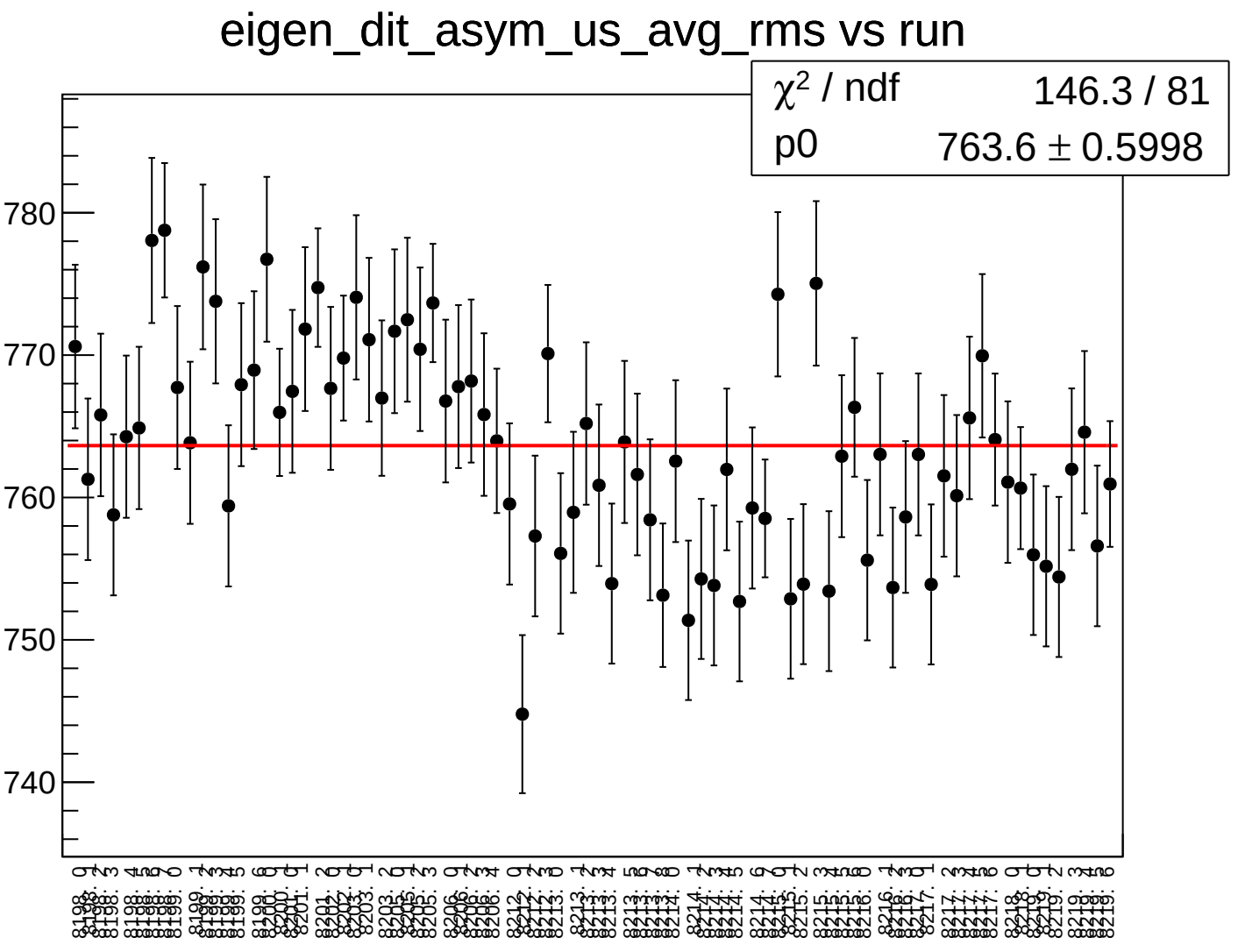

asym_us_avg_dit_correction_mean vs run
χ² / ndf 96.59 / 81
p0 340.7 ± 1885
pull
Entries 82
Mean 35.93
Std Dev 0

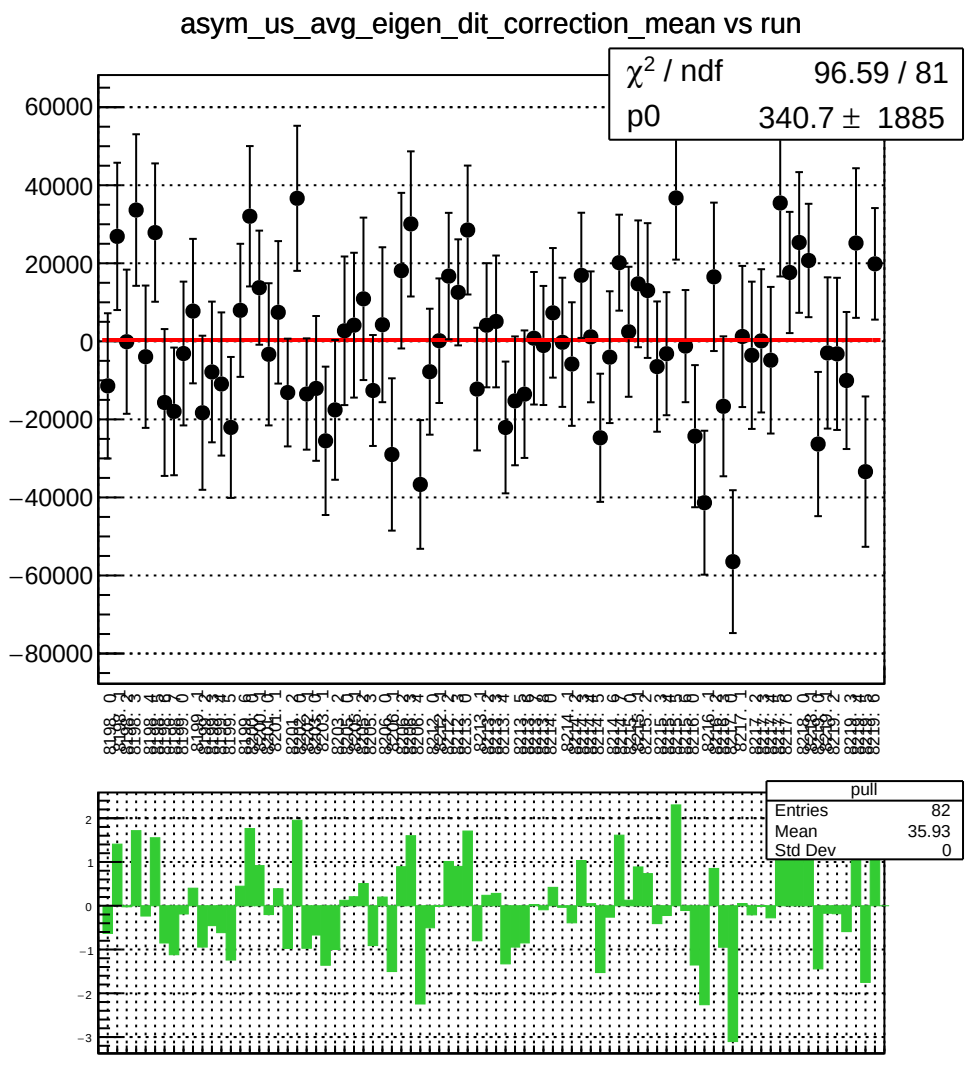

pull1D
Entries 82
Mean −0.01453
Std Dev 1.085

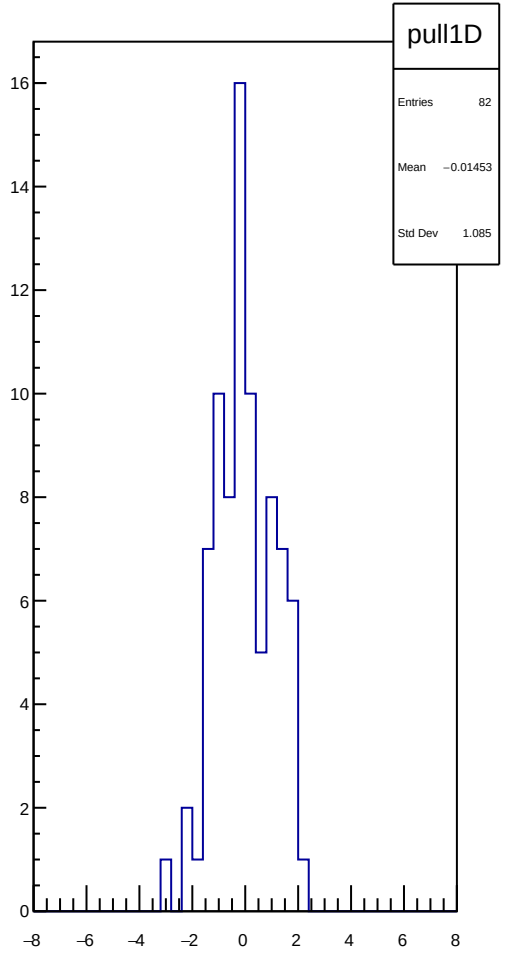

asym_us_avg_dit_correction_rms vs run
$\chi^2$ / ndf 8081 / 81
p0 1693 ± 1.333
2000
1900
1800
1700
1600
1500

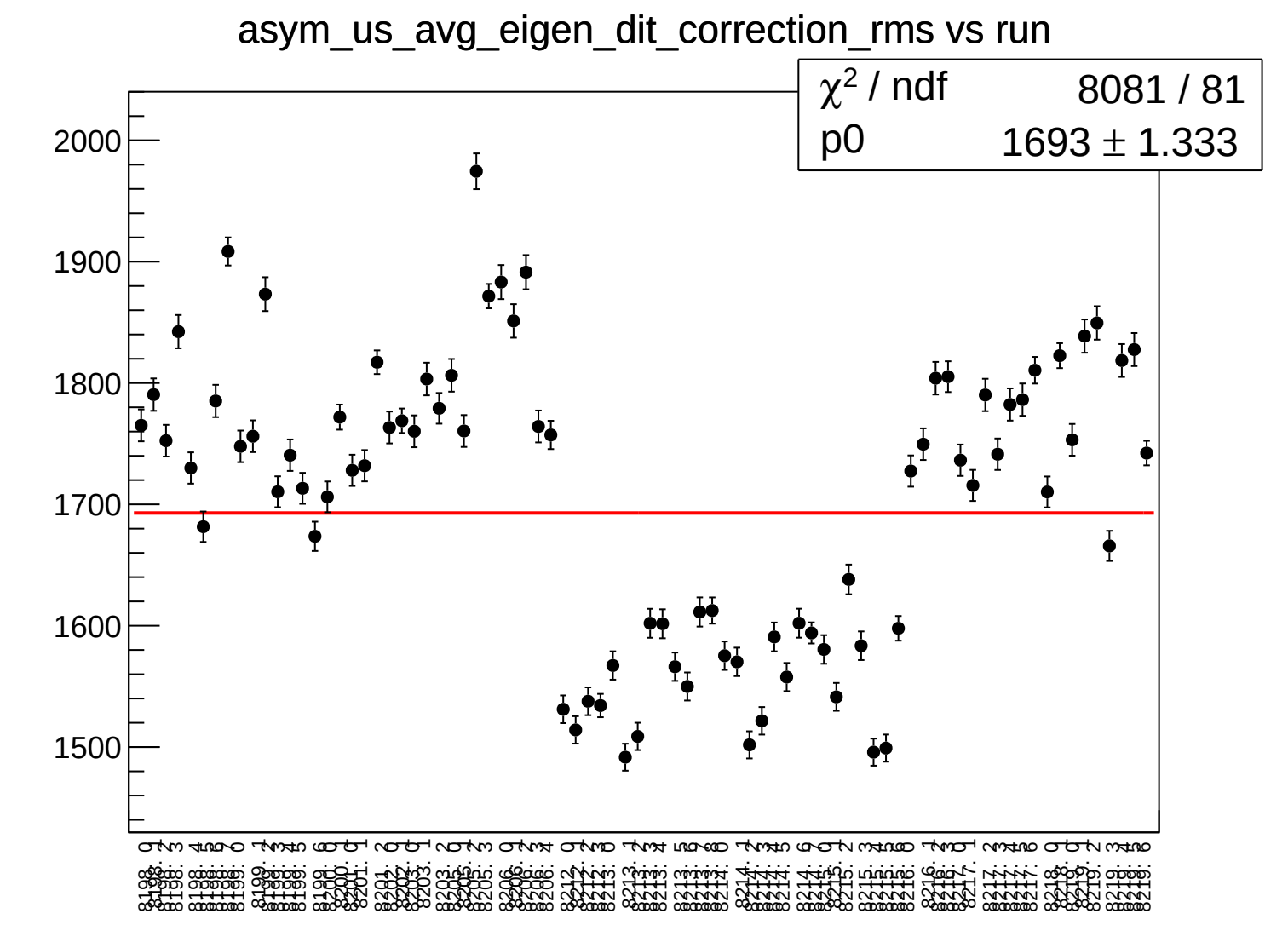

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 77.84 / 81
p0 1517 ± 848.2
pull
Entries 82
Mean −312.2
Std Dev 0

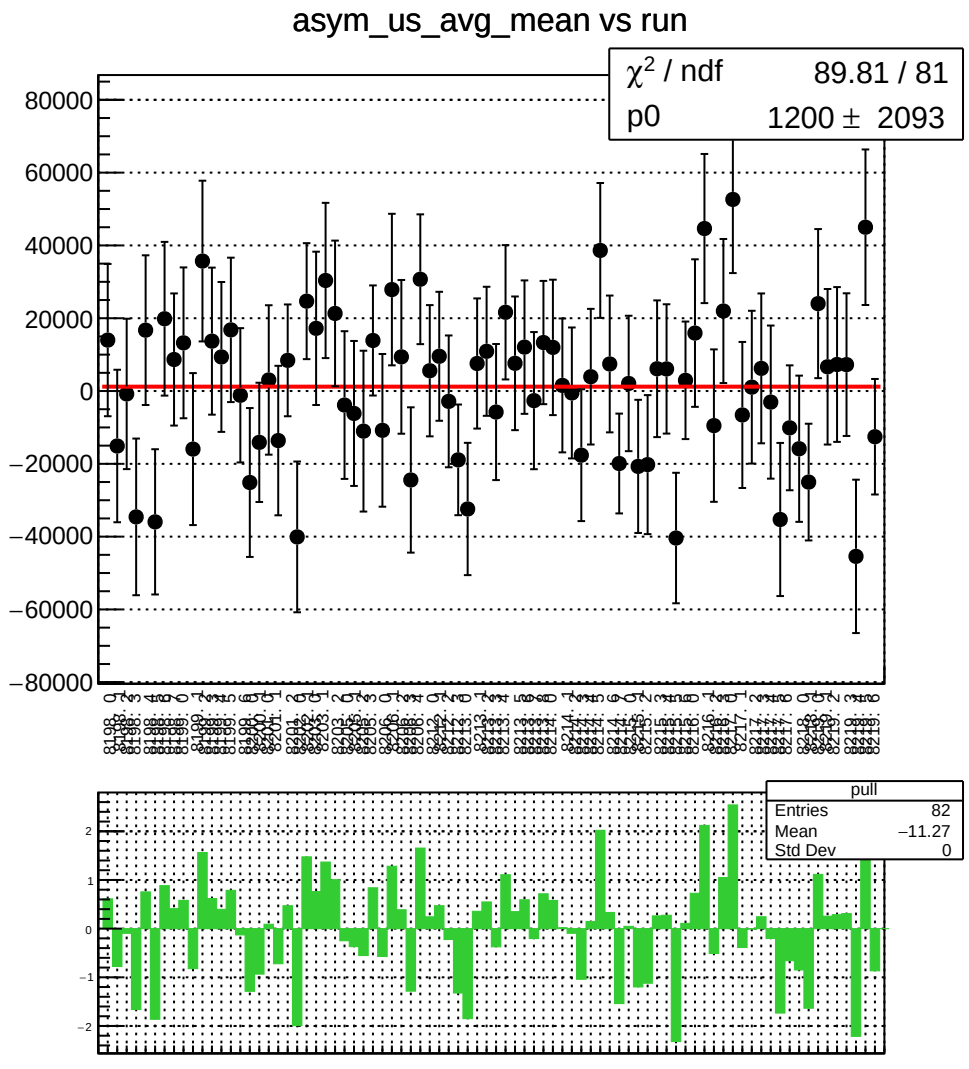

pull1D
Entries 82
Mean 0.00475
Std Dev 0.9743

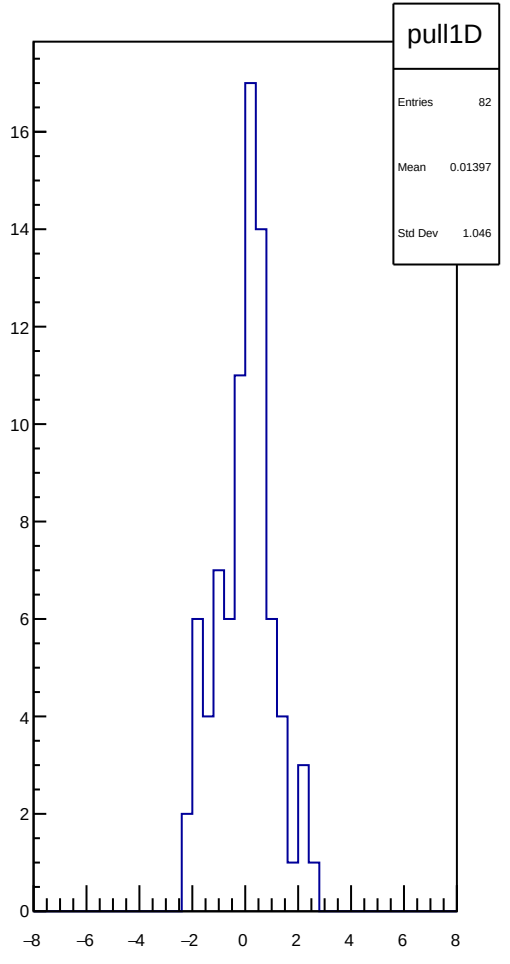

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 146.3 / 81
p0 763.6 ± 0.5998
780
770
760
750
740

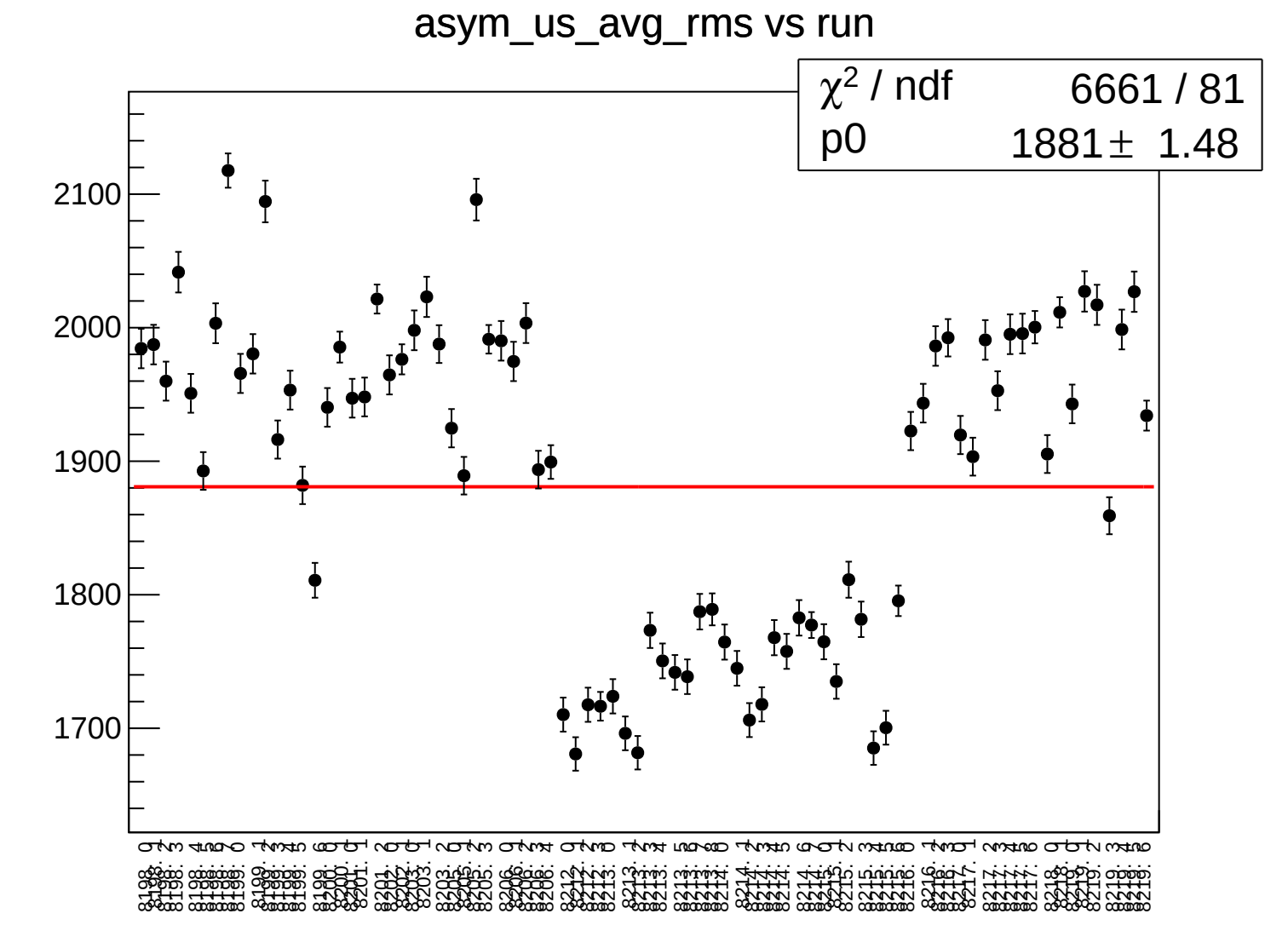

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.59 / 81
p0 340.7 ± 1885
pull
Entries 82
Mean 35.93
Std Dev 0

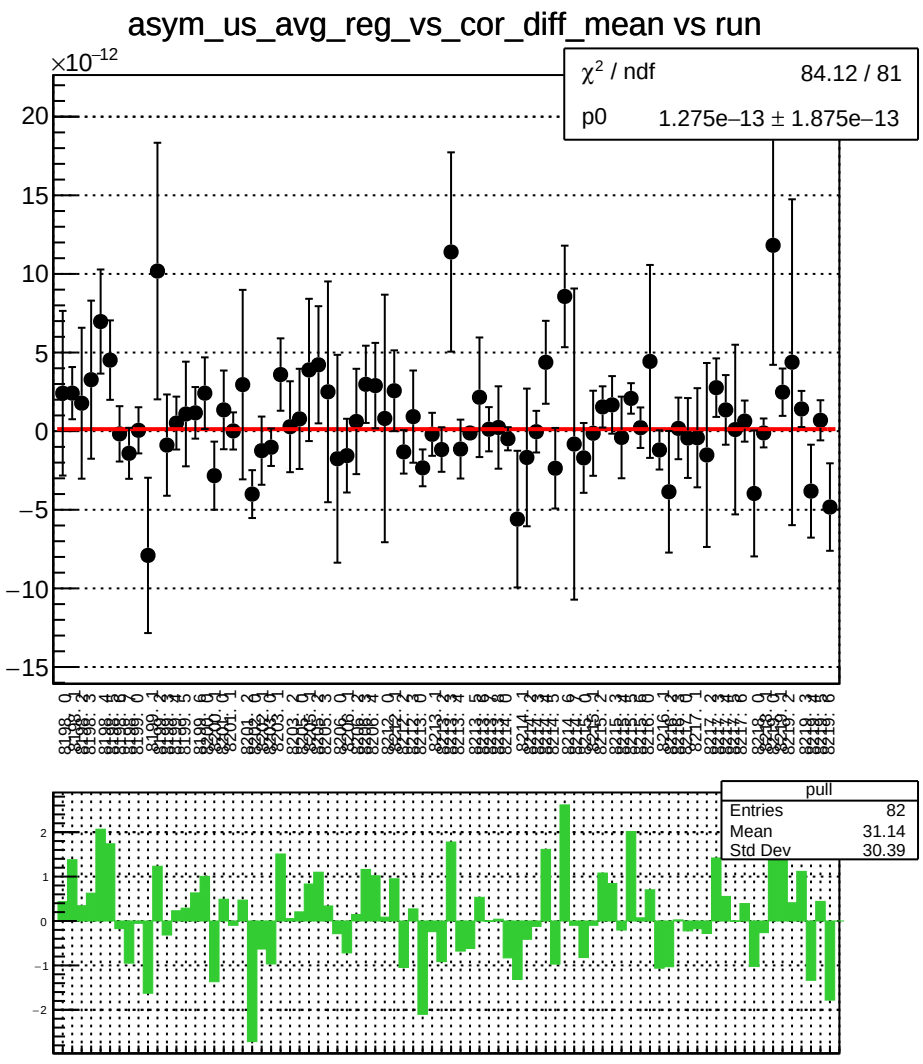

pull1D
Entries 82
Mean −0.01453
Std Dev 1.085

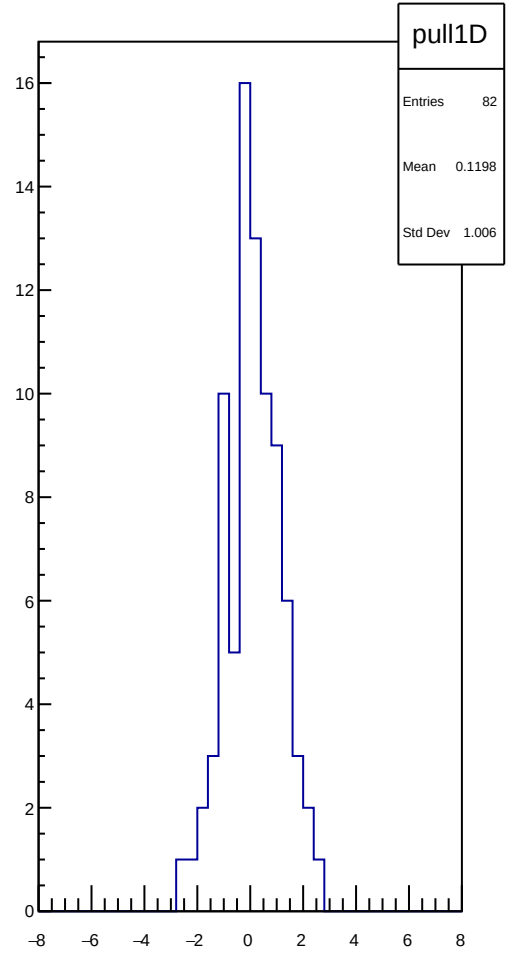

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 8081 / 81
p0 1693 ± 1.333
2000
1900
1800
1700
1600
1500

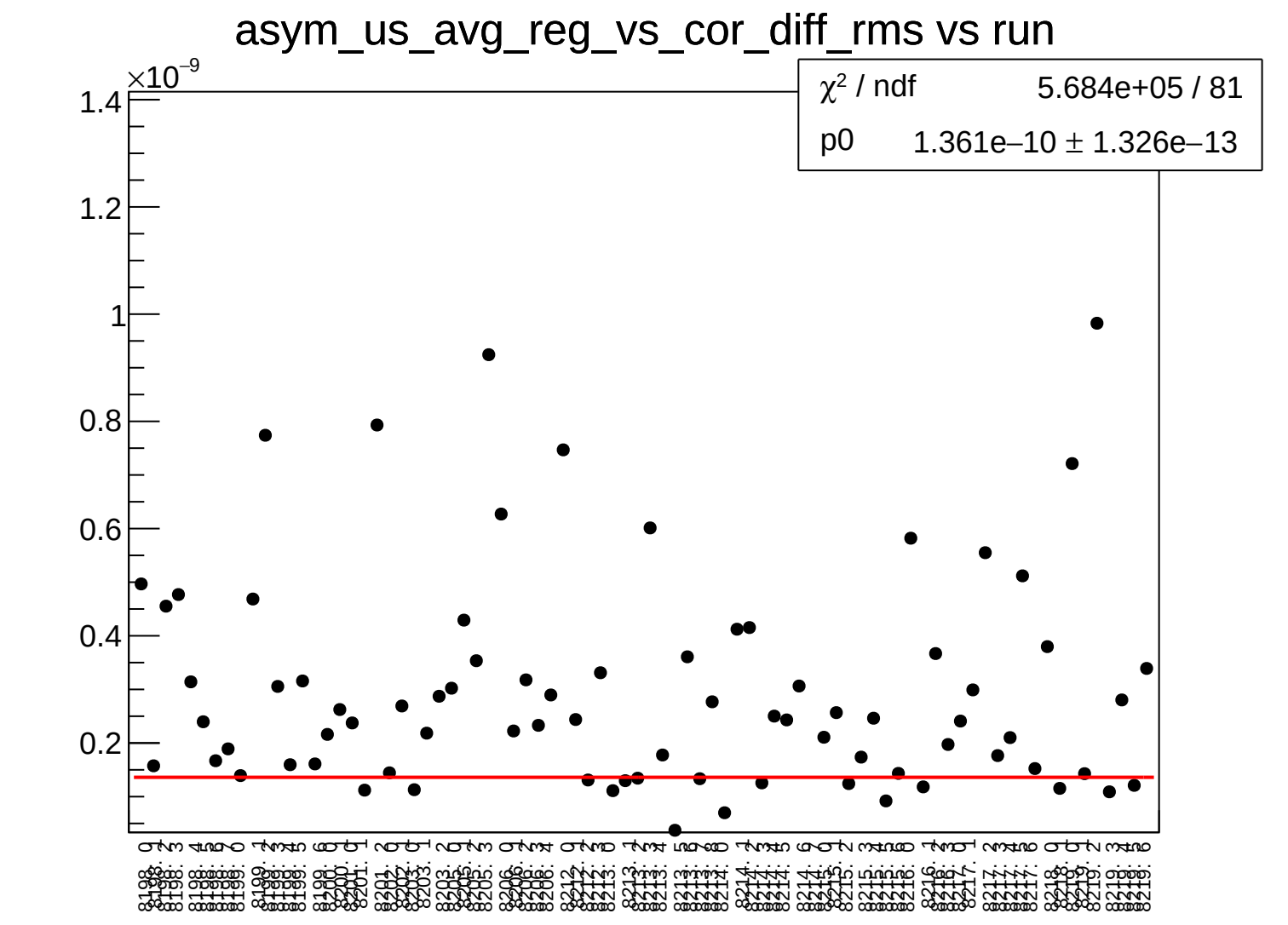

asym_us_avg_mean vs run
χ² / ndf 89.81 / 81
p0 1200 ± 2093
pull
Entries 82
Mean −11.27
Std Dev 0

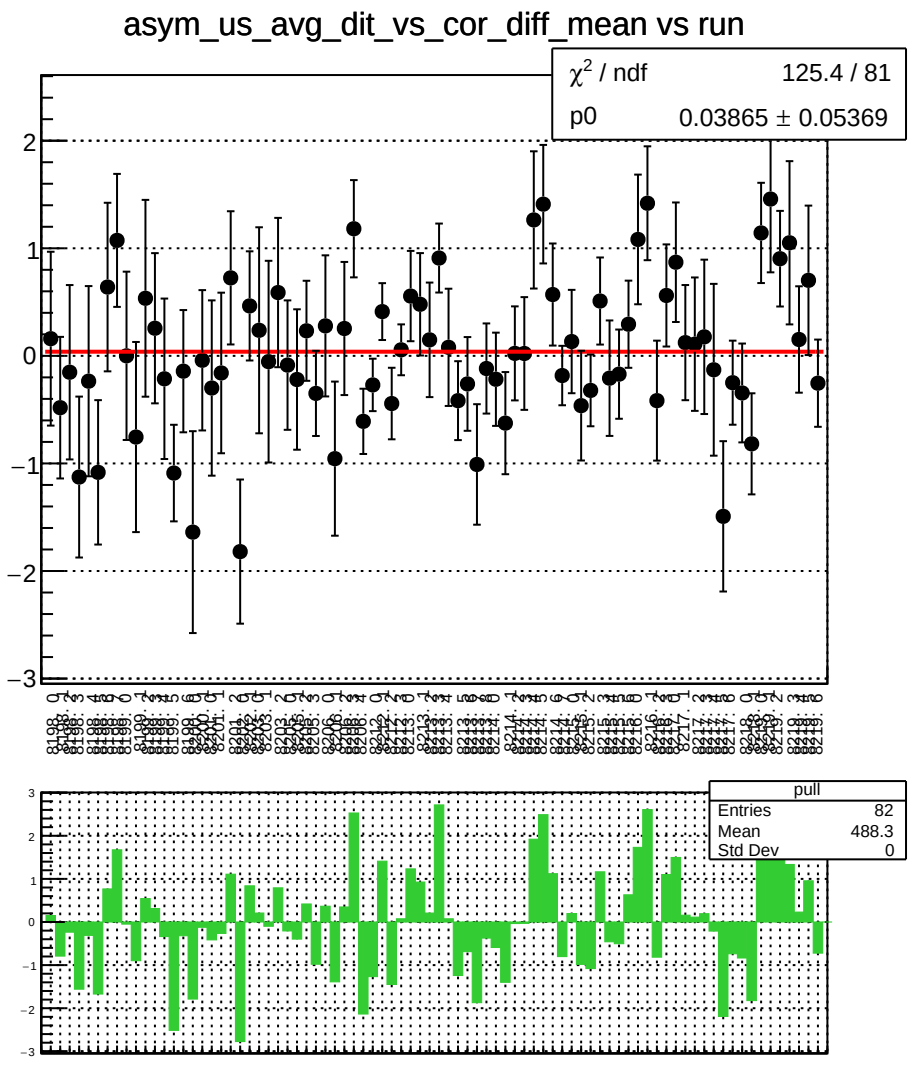

pull1D
Entries 82
Mean 0.01397
Std Dev 1.046

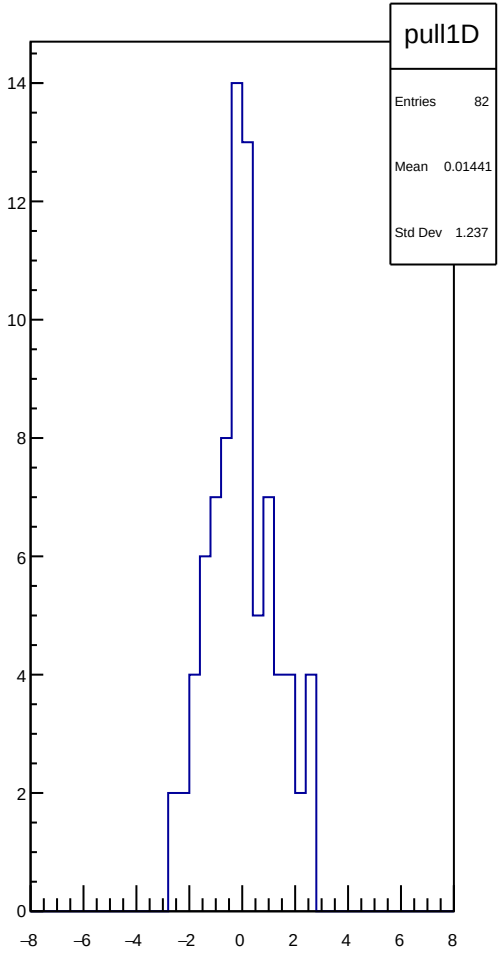

asym_us_avg_rms vs run
χ² / ndf 6661 / 81
p0 1881 ± 1.48
2100
2000
1900
1800
1700

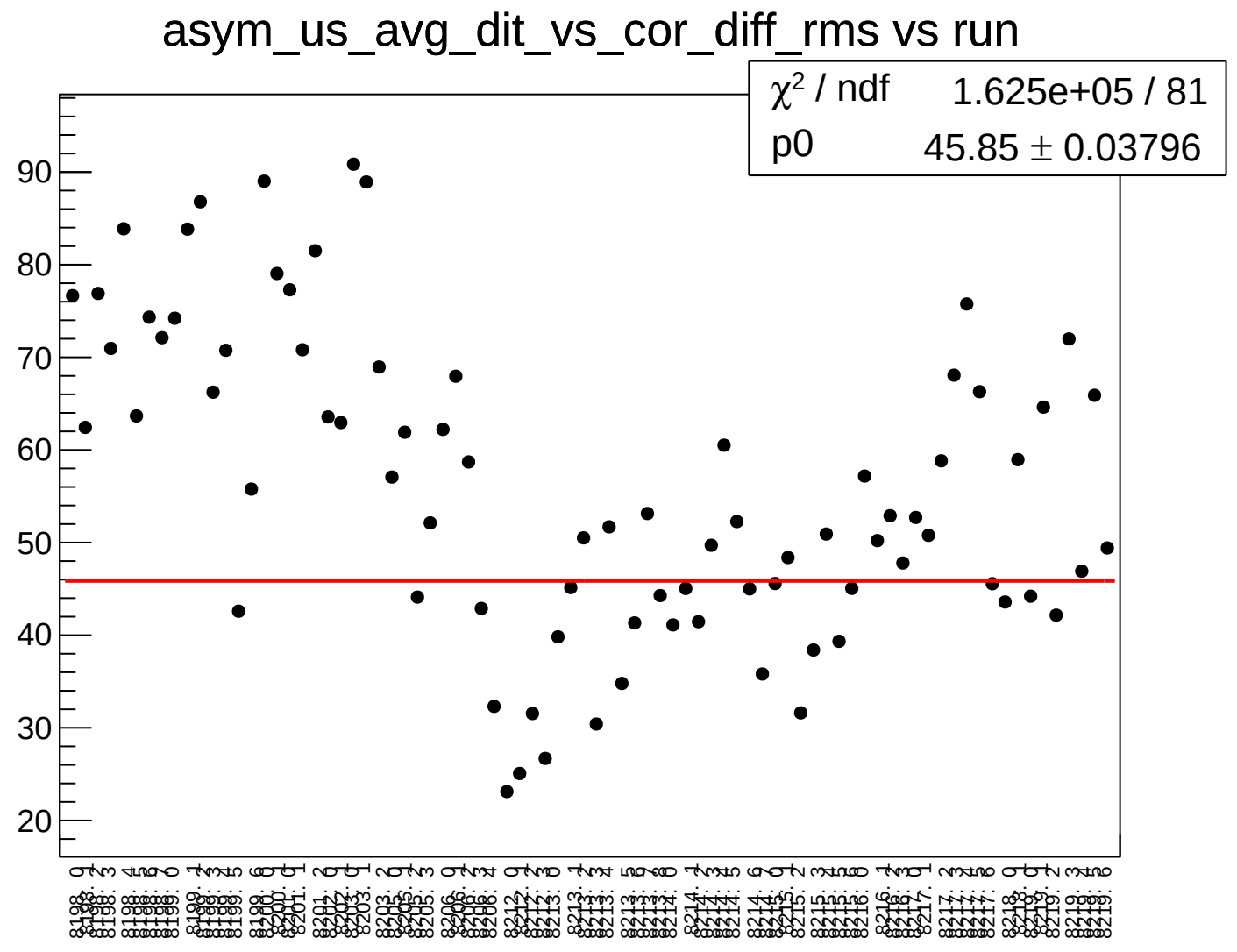

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.12 / 81
p0 1.275e−13 ± 1.875e−13
pull
Entries 82
Mean 31.14
Std Dev 30.39

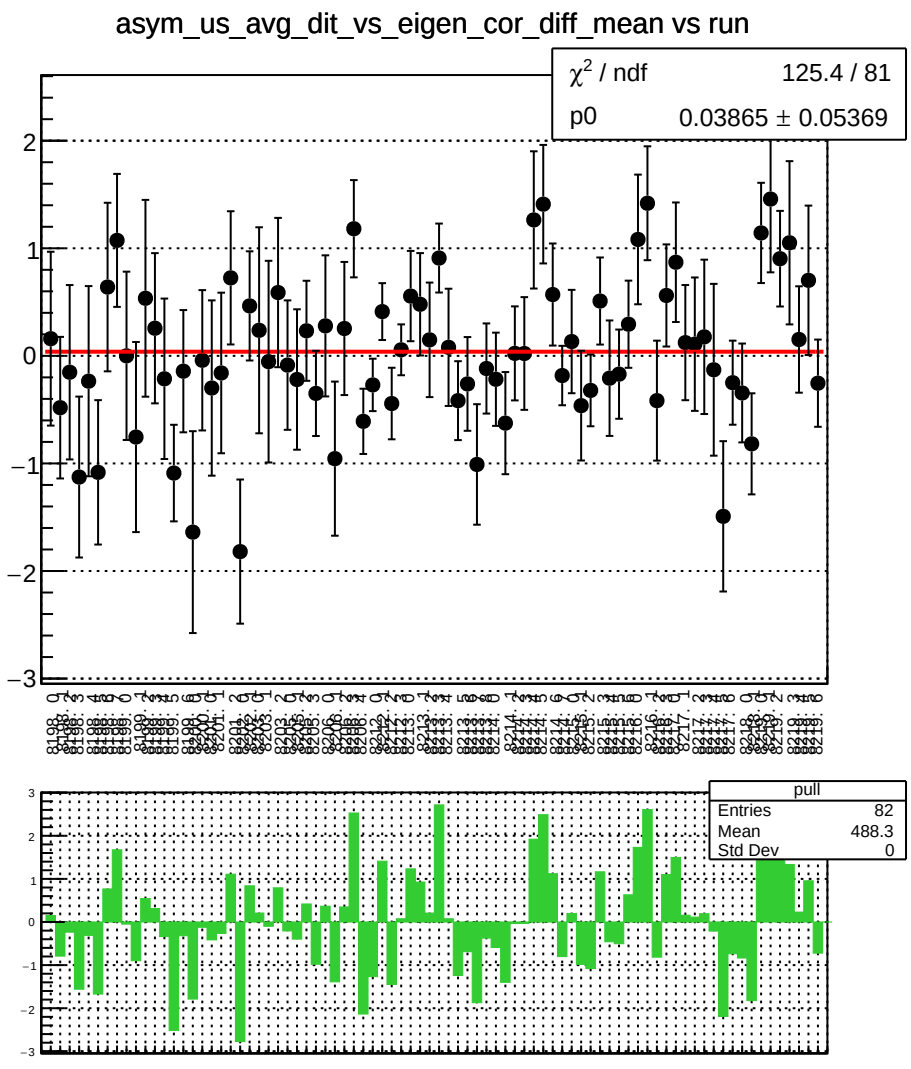

pull1D
Entries 82
Mean 0.1198
Std Dev 1.006

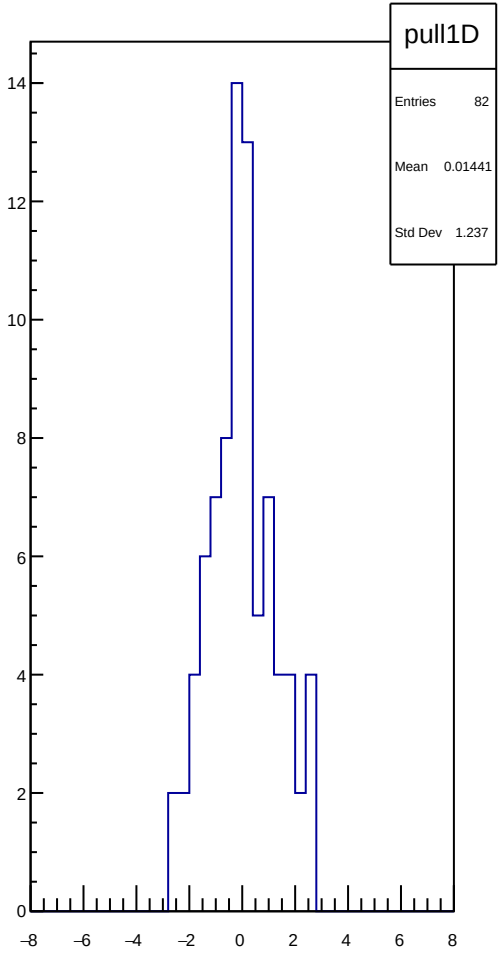

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.684e+05 / 81
p0 1.361e−10 ± 1.326e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

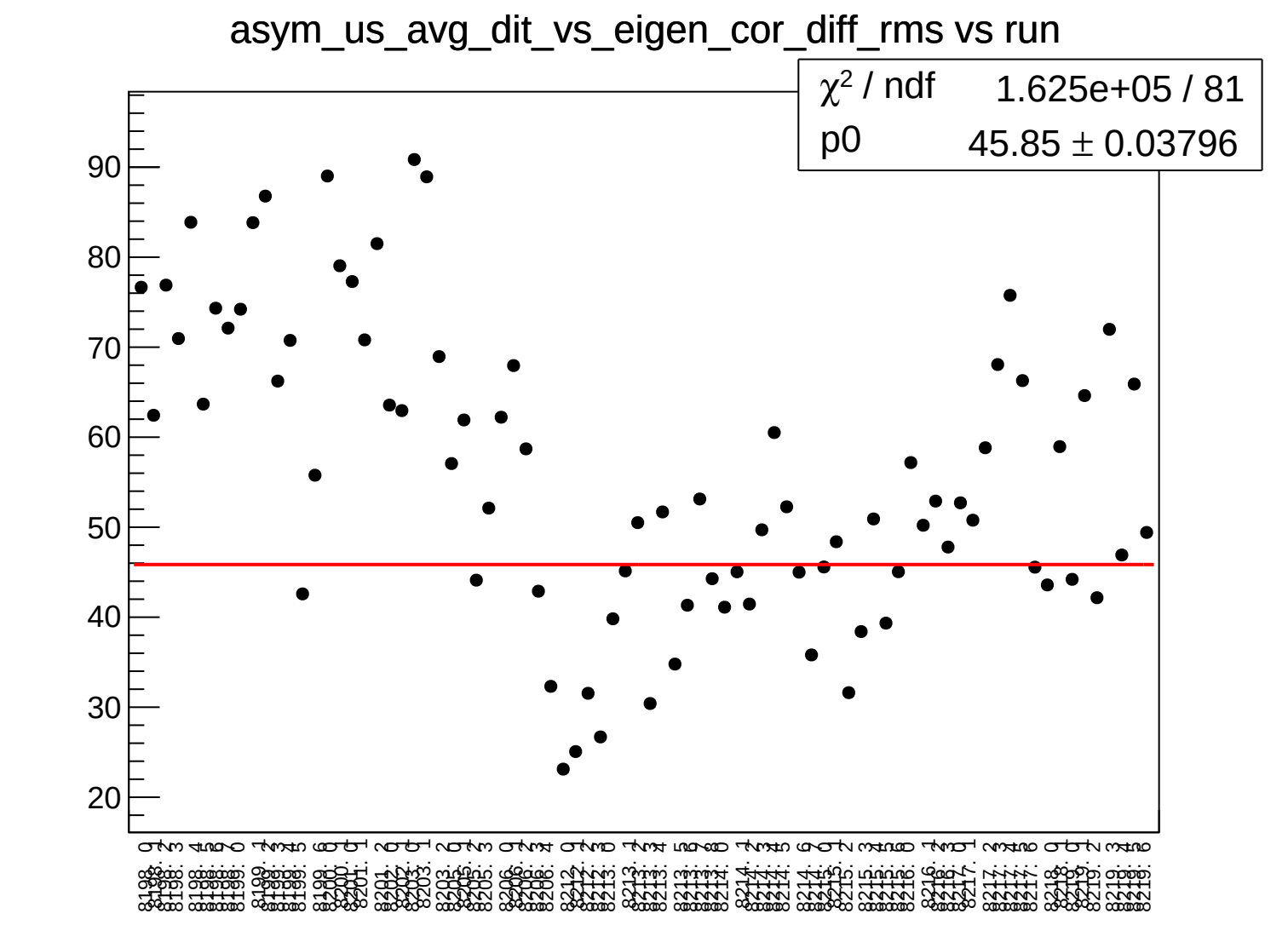

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 125.4 / 81
p0 0.03865 ± 0.05369
pull
Entries 82
Mean 488.3
Std Dev 0

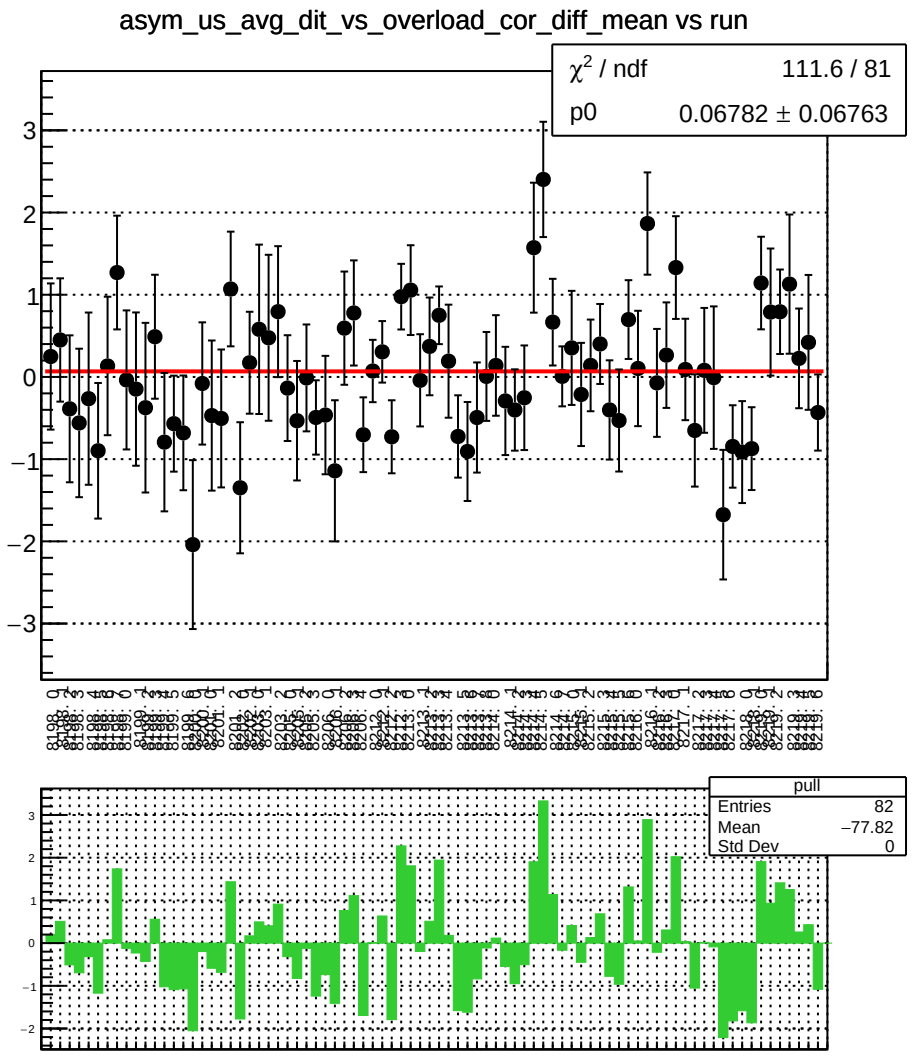

pull1D
Entries 82
Mean 0.01441
Std Dev 1.237

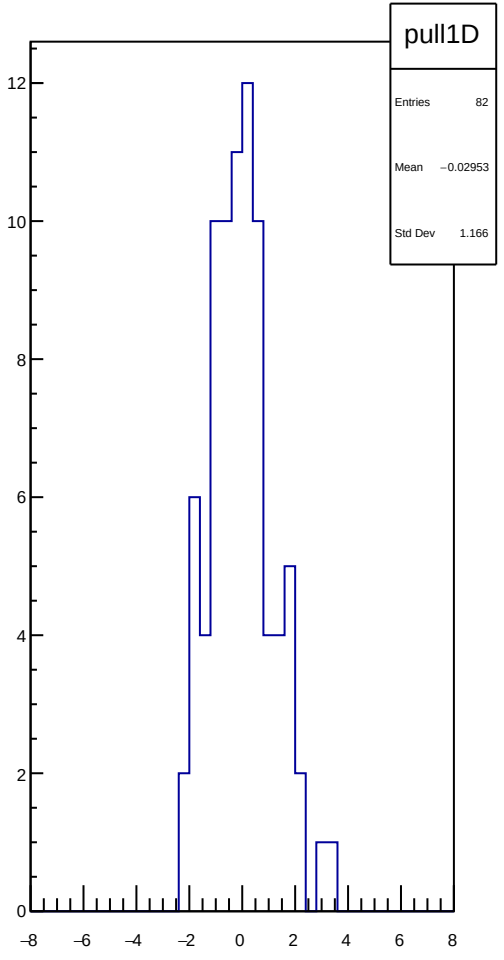

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 81
p0 45.85 ± 0.03796
90
80
70
60
50
40
30
20

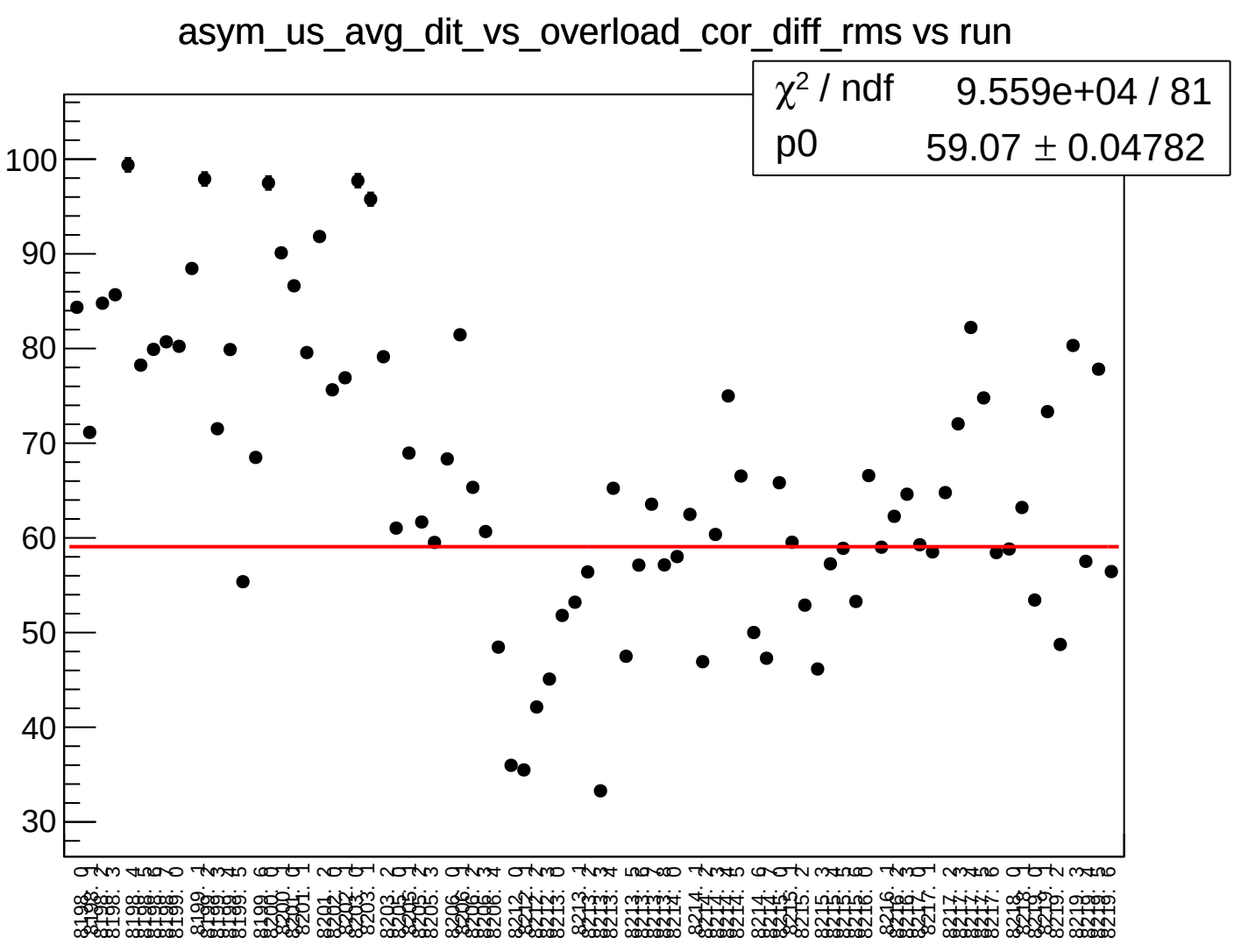

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.4 / 81
p0 0.03865 ± 0.05369
pull
Entries 82
Mean 488.3
Std Dev 0

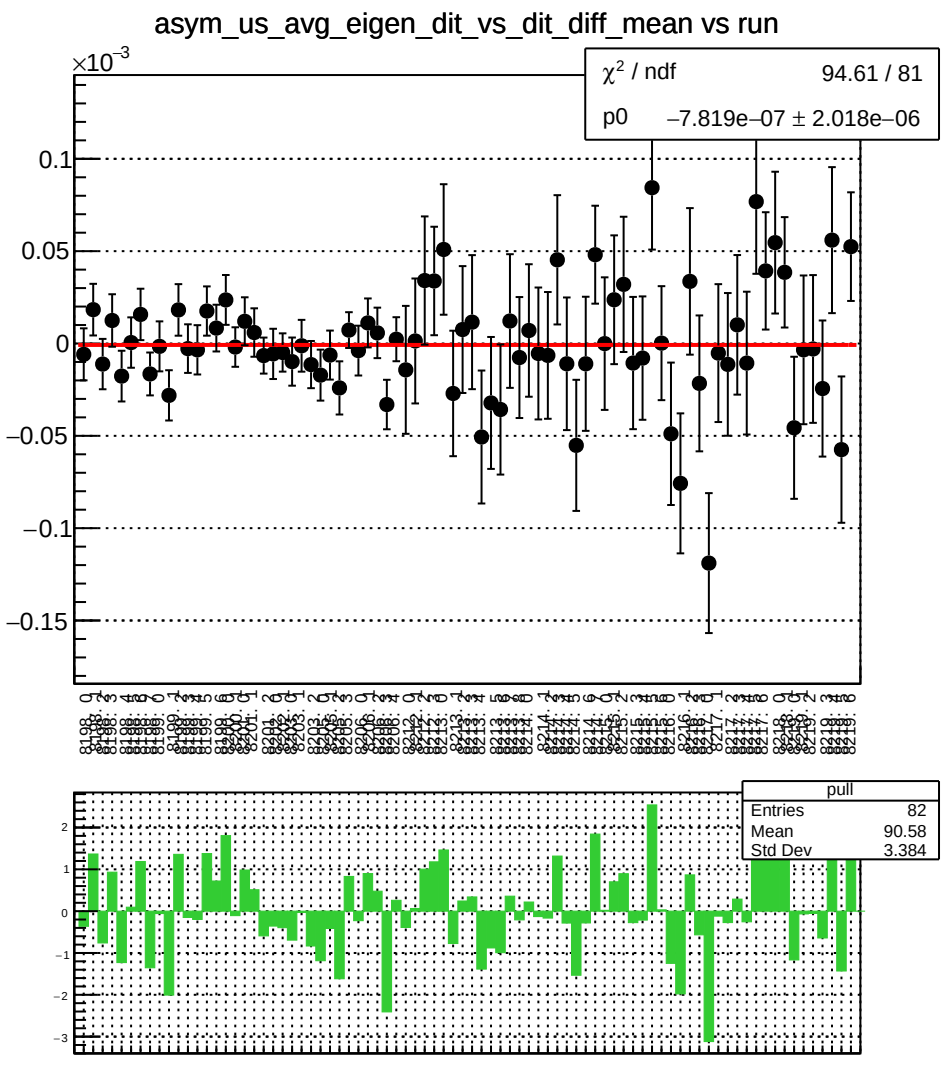

pull1D
Entries 82
Mean 0.01441
Std Dev 1.237

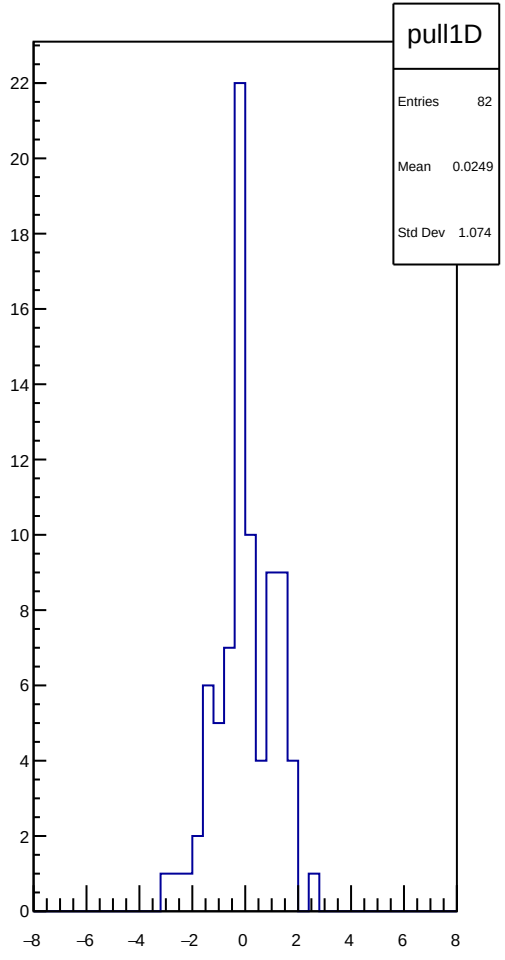

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 81
p0 45.85 ± 0.03796
90
80
70
60
50
40
30
20

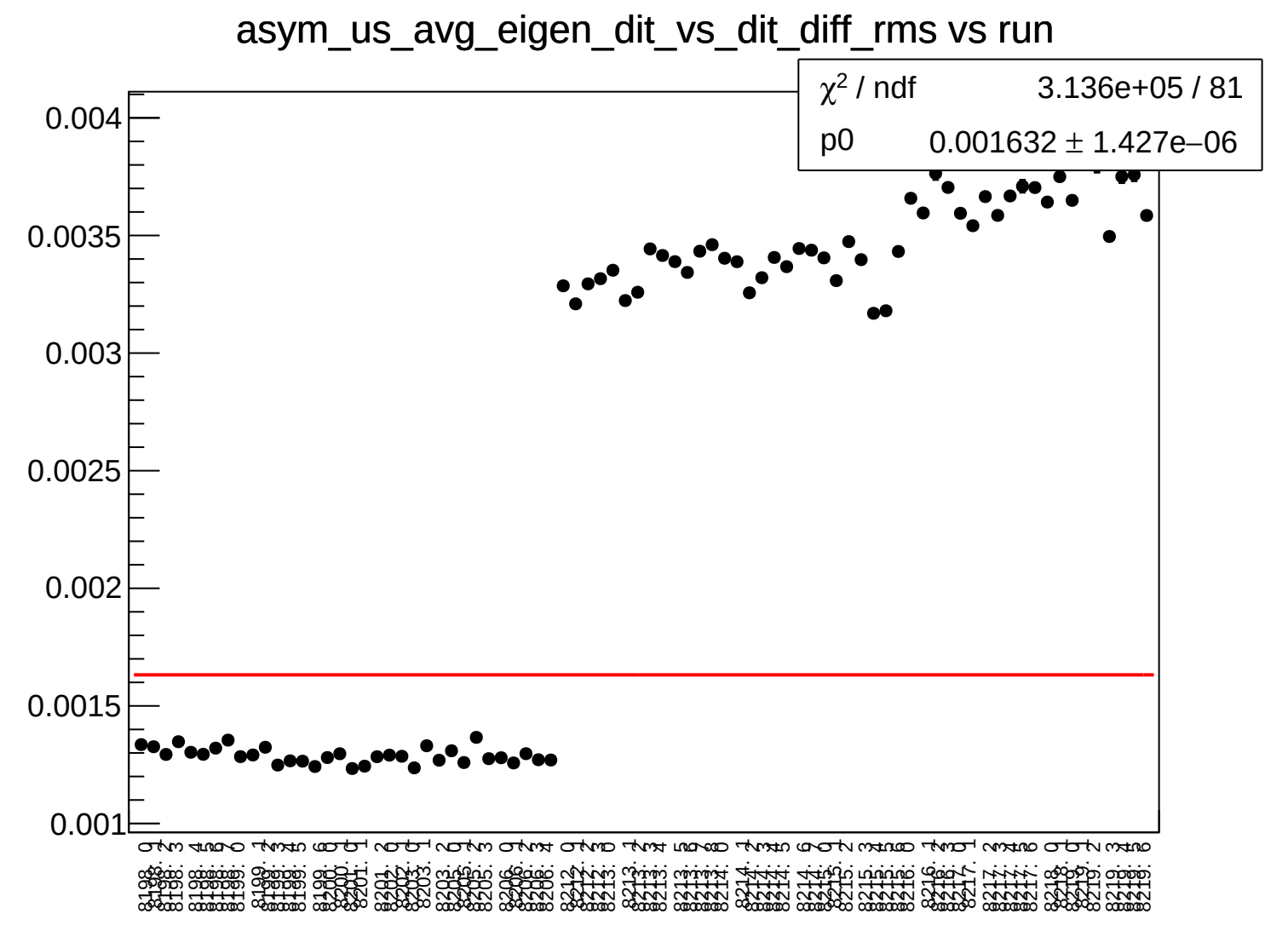

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 111.6 / 81
p0 0.06782 ± 0.06763
pull
Entries 82
Mean −77.82
Std Dev 0

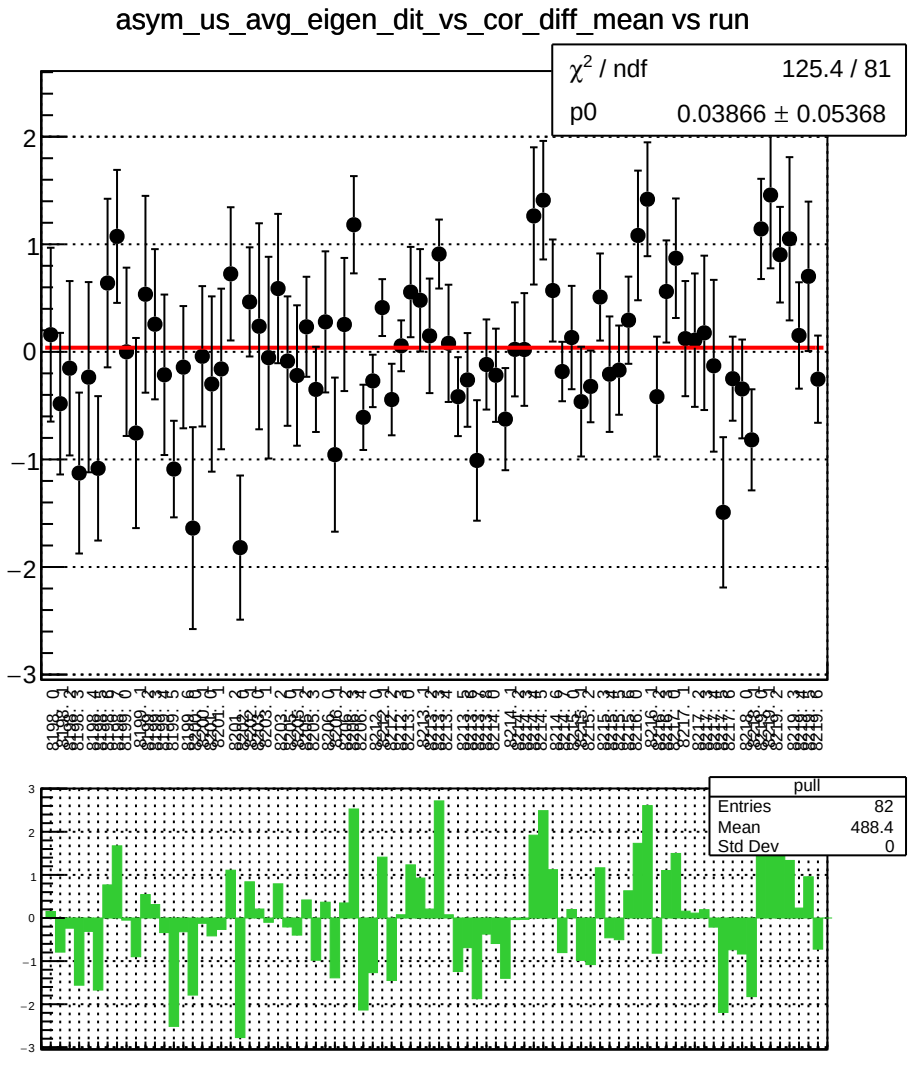

pull1D
Entries 82
Mean −0.02953
Std Dev 1.166

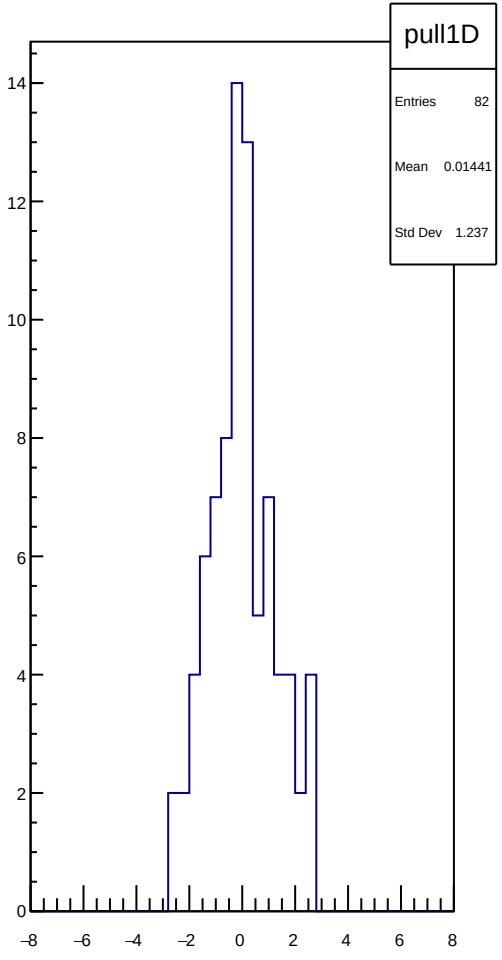

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 9.559e+04 / 81
p0 59.07 ± 0.04782
100
90
80
70
60
50
40
30

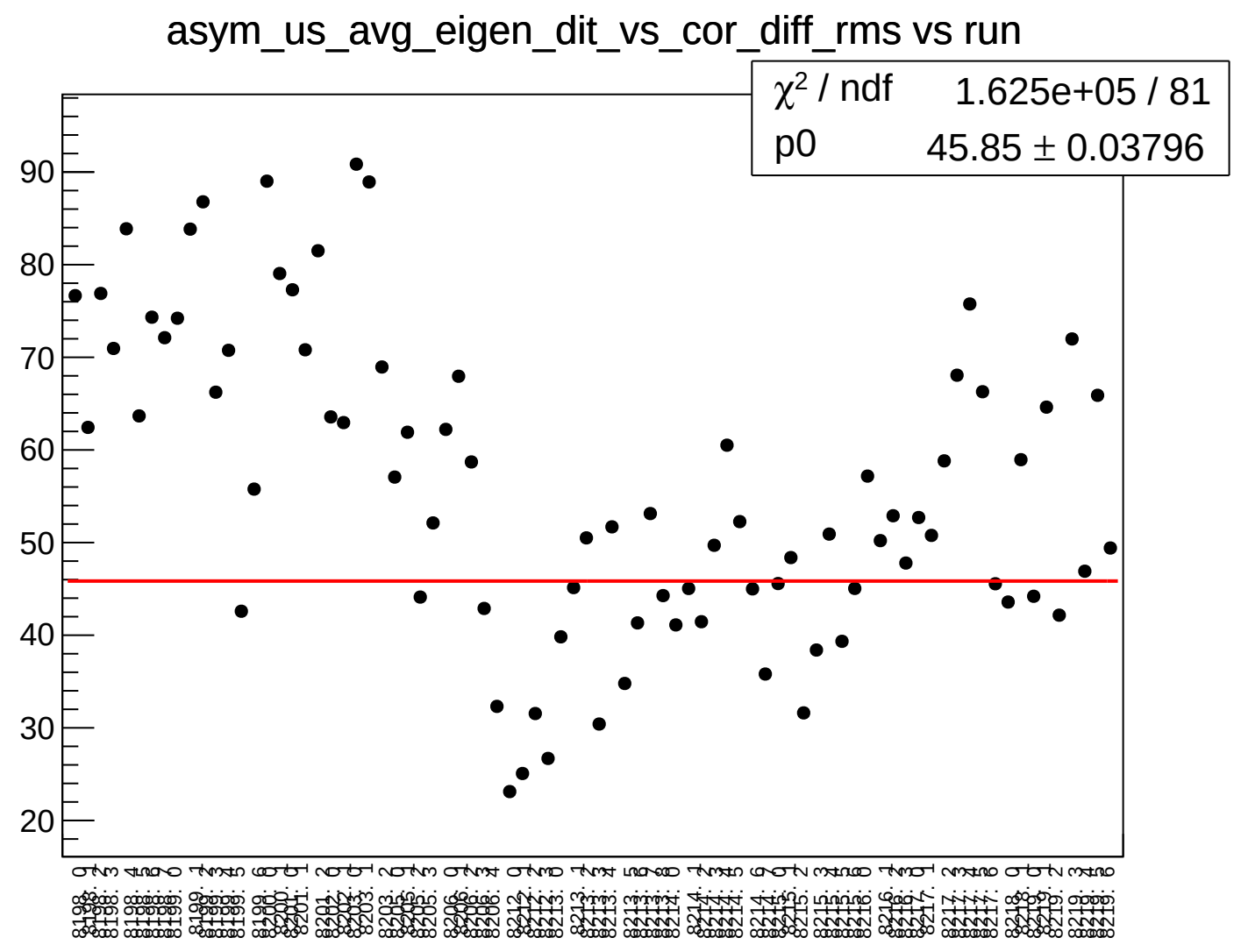

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.61 / 81
p0 −7.819e−07 ± 2.018e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 82
Mean 90.58
Std Dev 3.384
2
1
0
−1
−2
−3

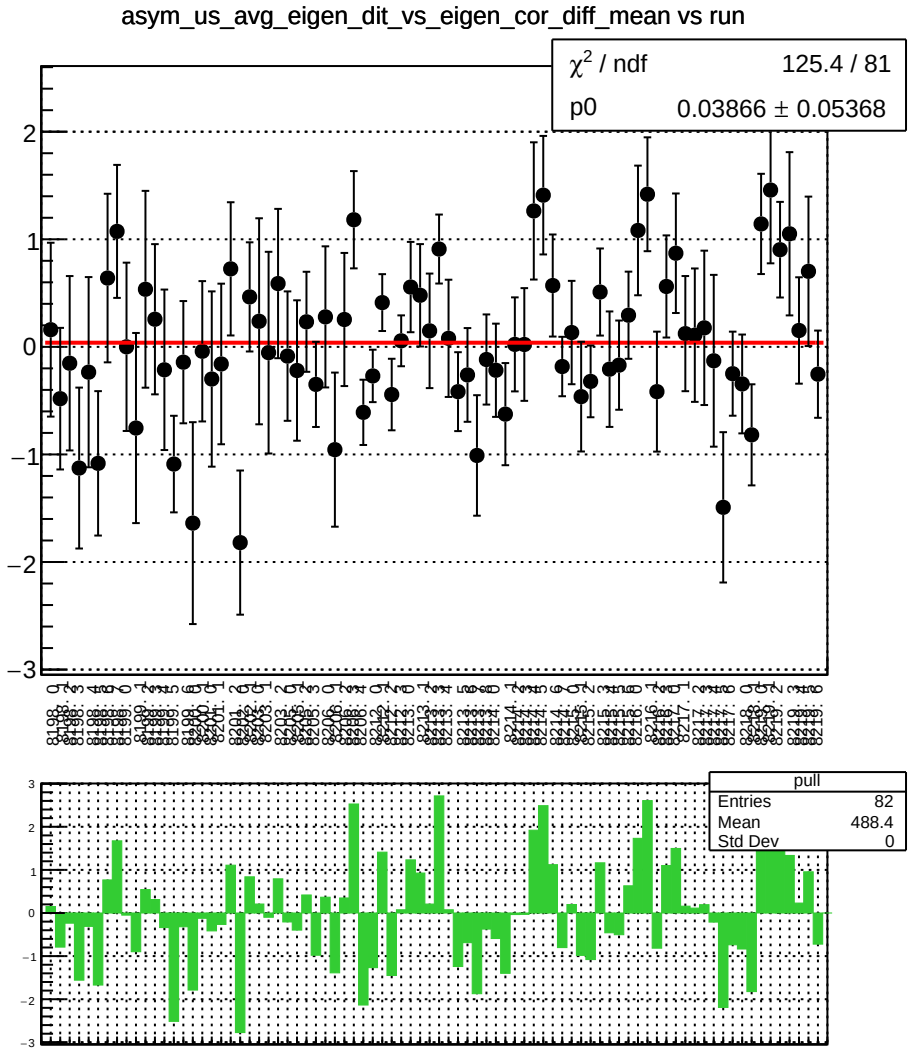

pull1D
Entries 82
Mean 0.0249
Std Dev 1.074
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

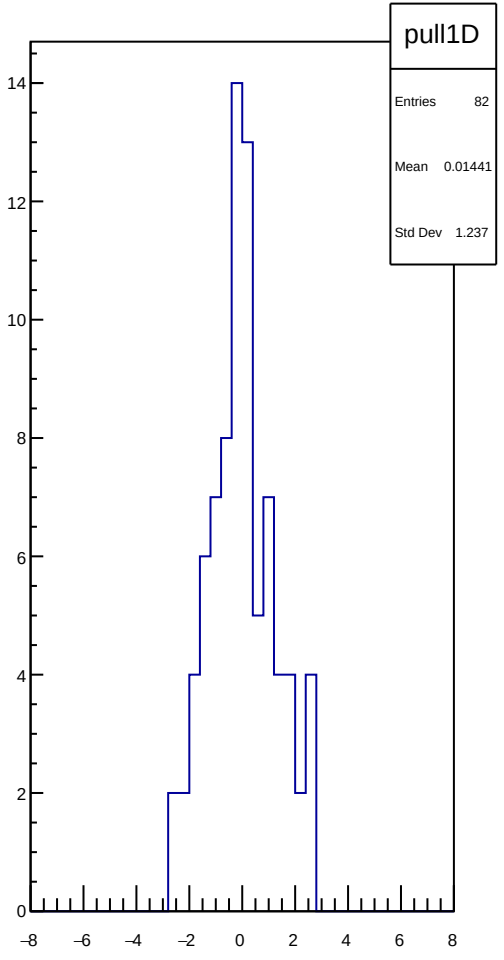

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.136e+05 / 81
p0 0.001632 ± 1.427e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

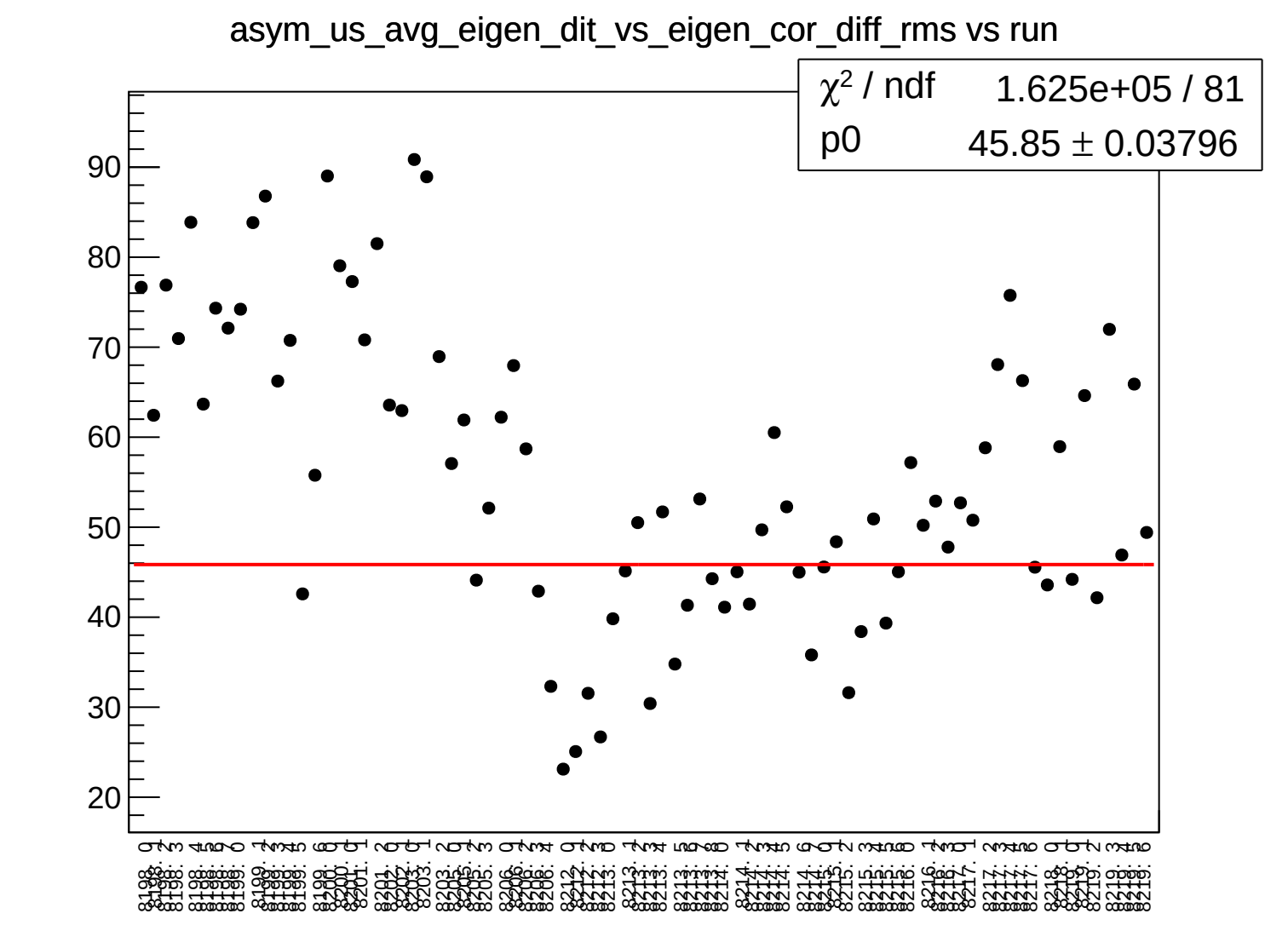

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 125.4 / 81
p0 0.03866 ± 0.05368
pull
Entries 82
Mean 488.4
Std Dev 0

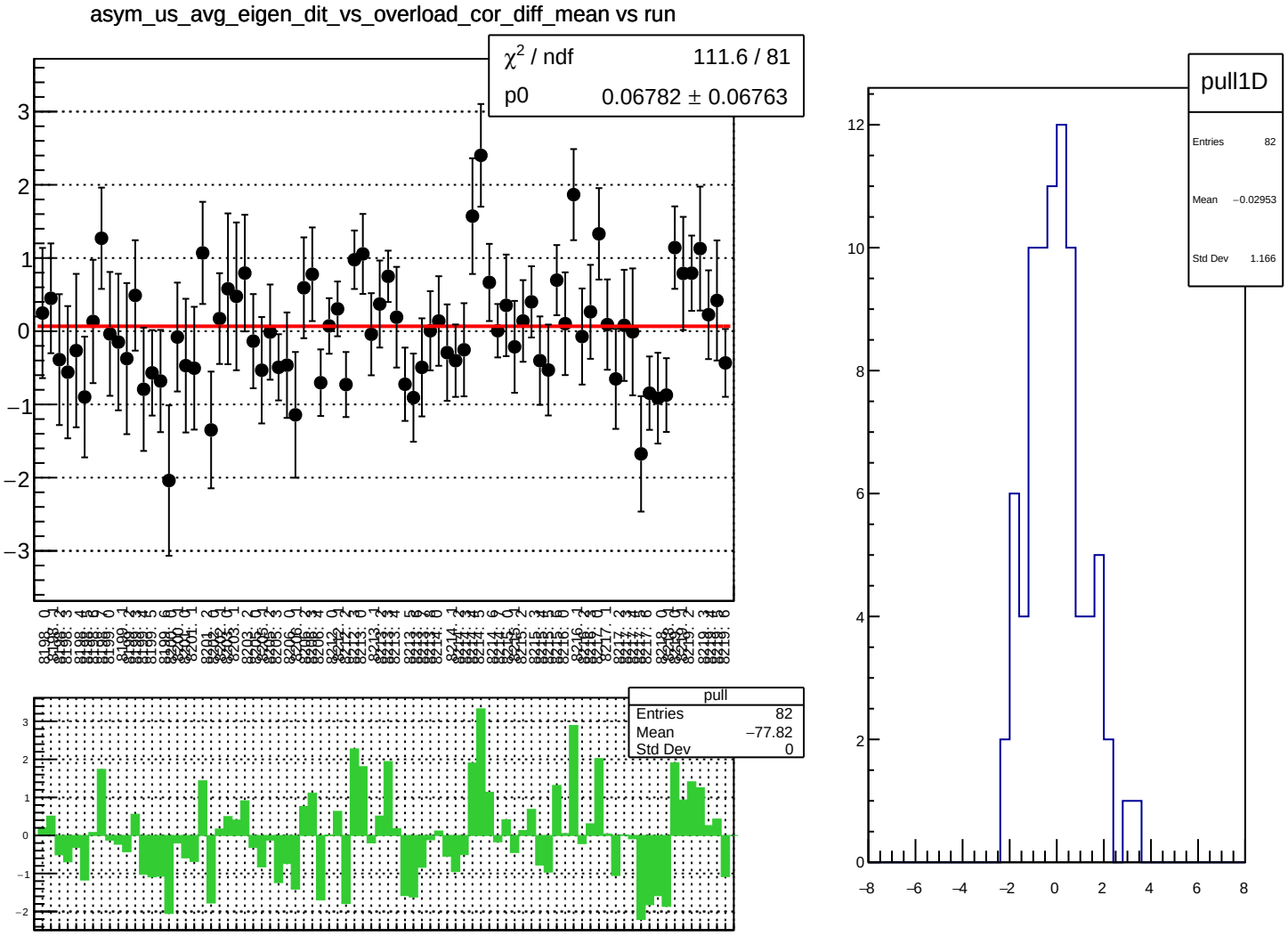

pull1D
Entries 82
Mean 0.01441
Std Dev 1.237

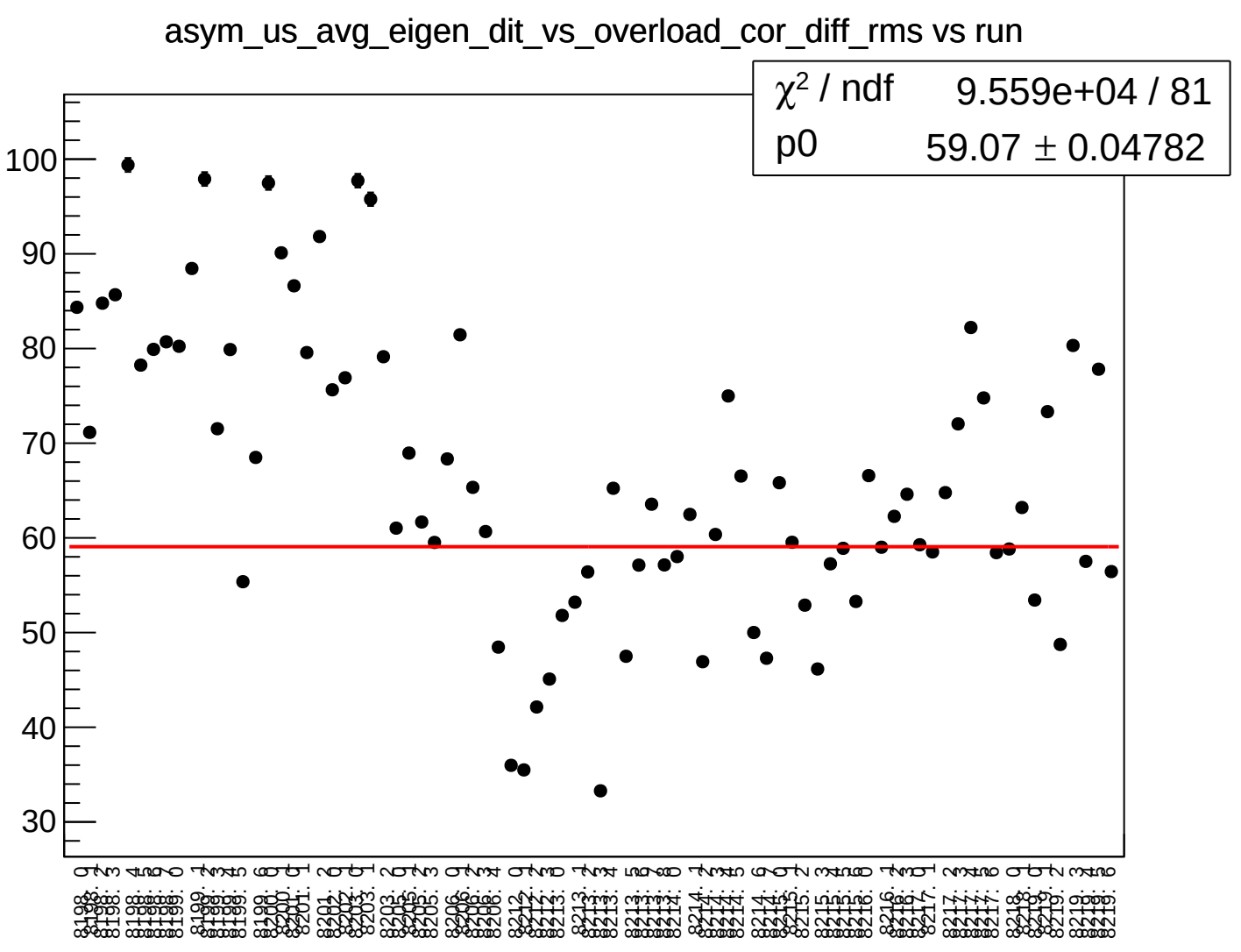

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 81
p0 45.85 ± 0.03796
90
80
70
60
50
40
30
20

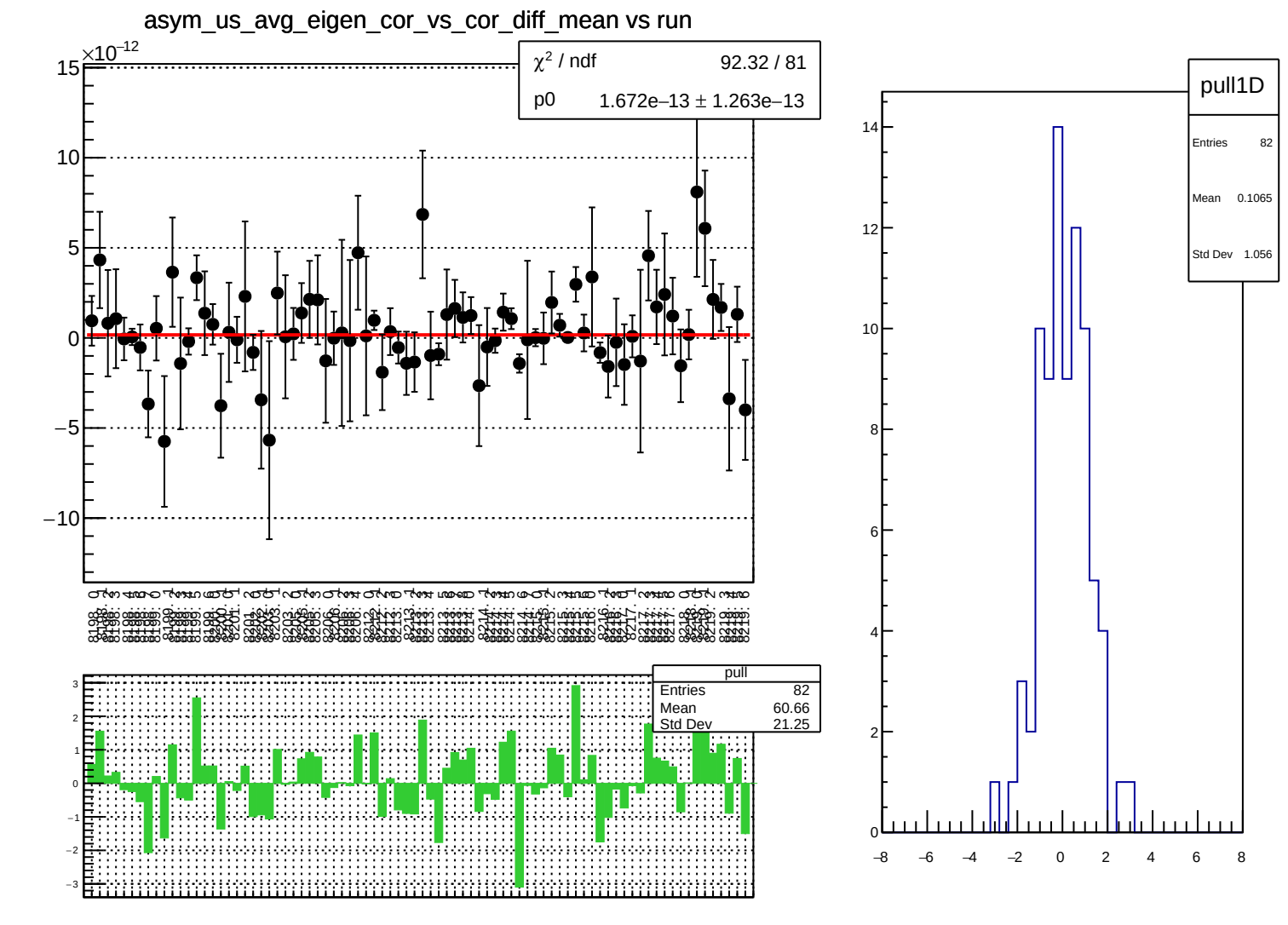

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.4 / 81
p0 0.03866 ± 0.05368
pull
Entries 82
Mean 488.4
Std Dev 0

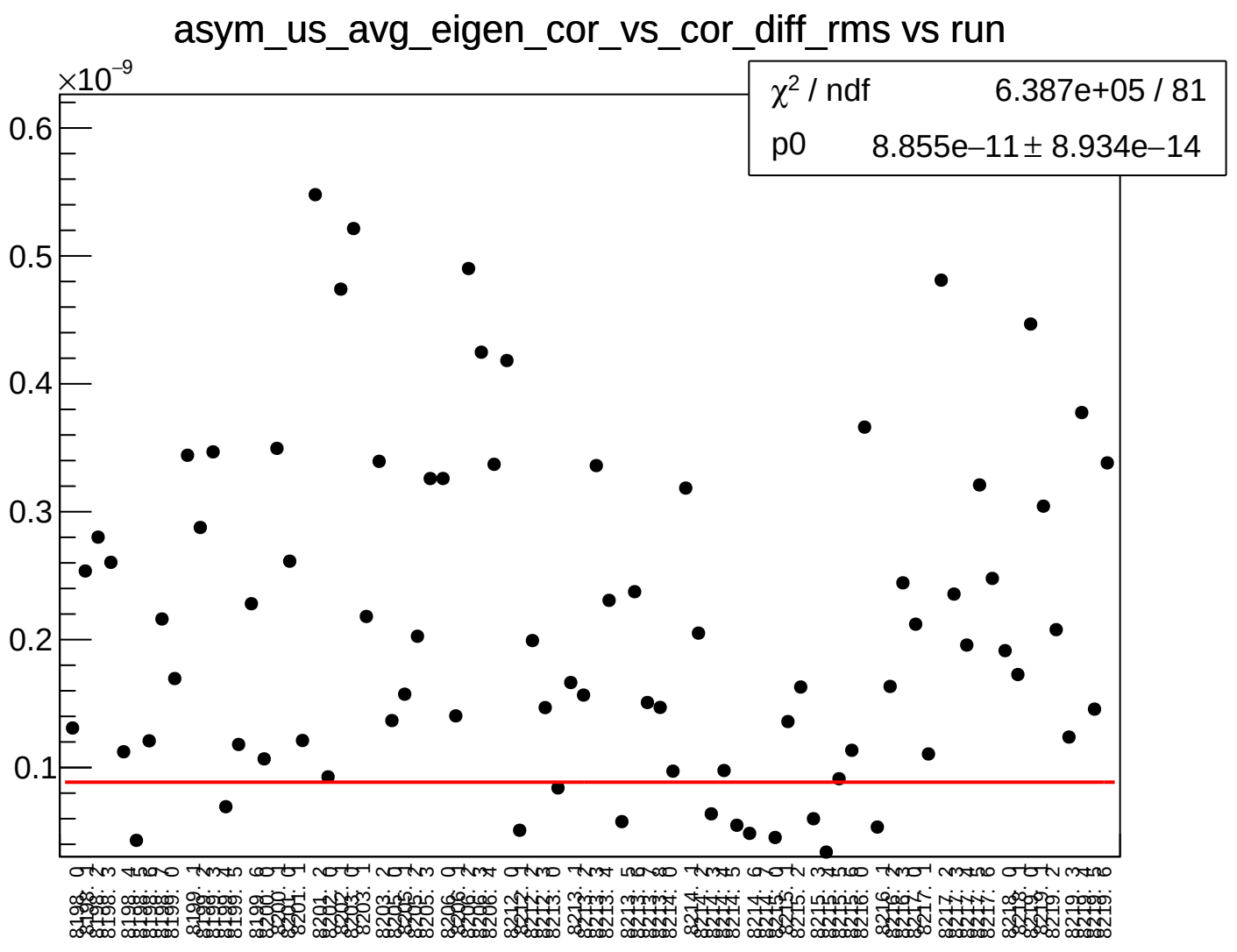

pull1D
Entries 82
Mean 0.01441
Std Dev 1.237

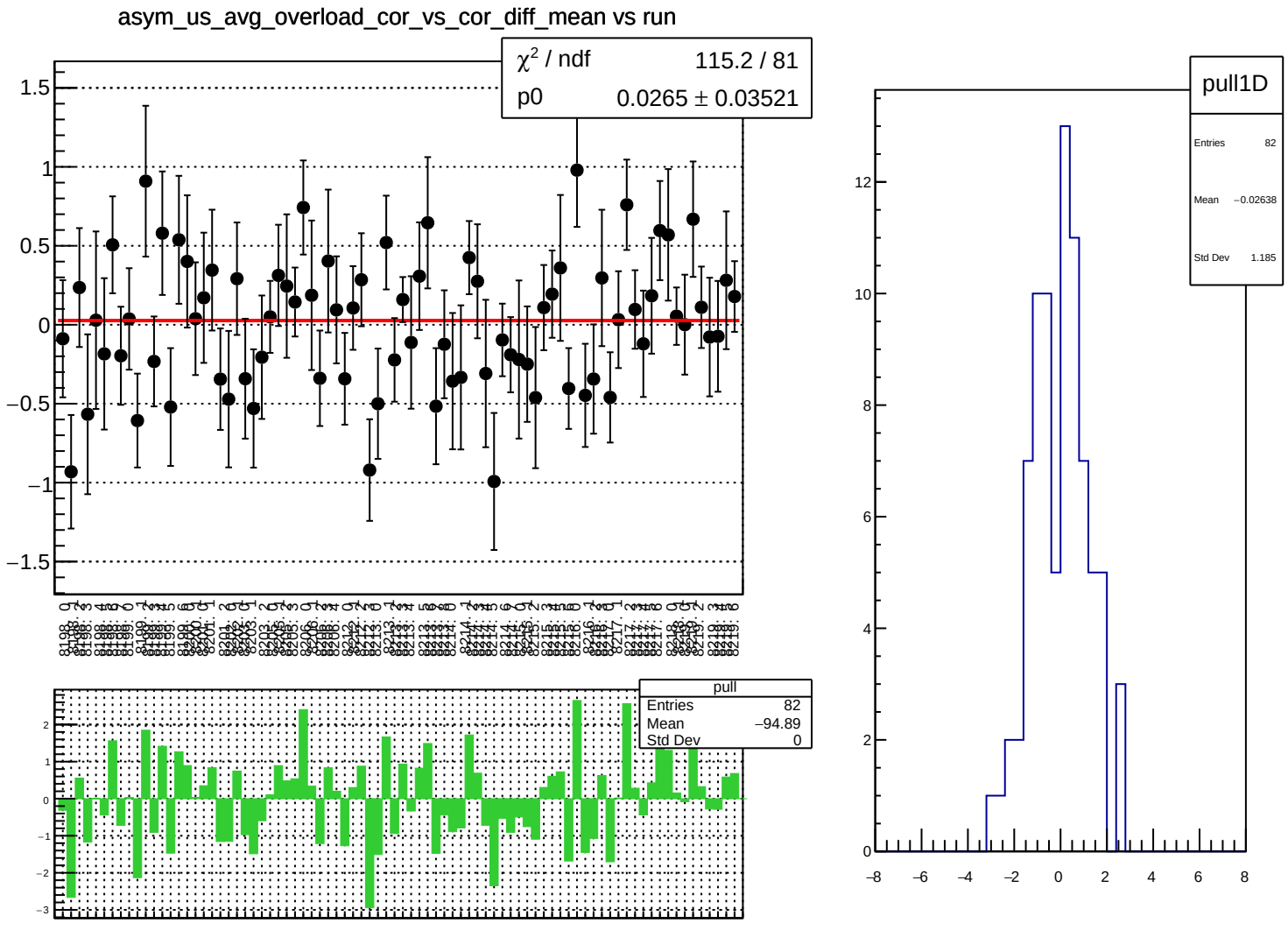

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 81
p0 45.85 ± 0.03796
90
80
70
60
50
40
30
20

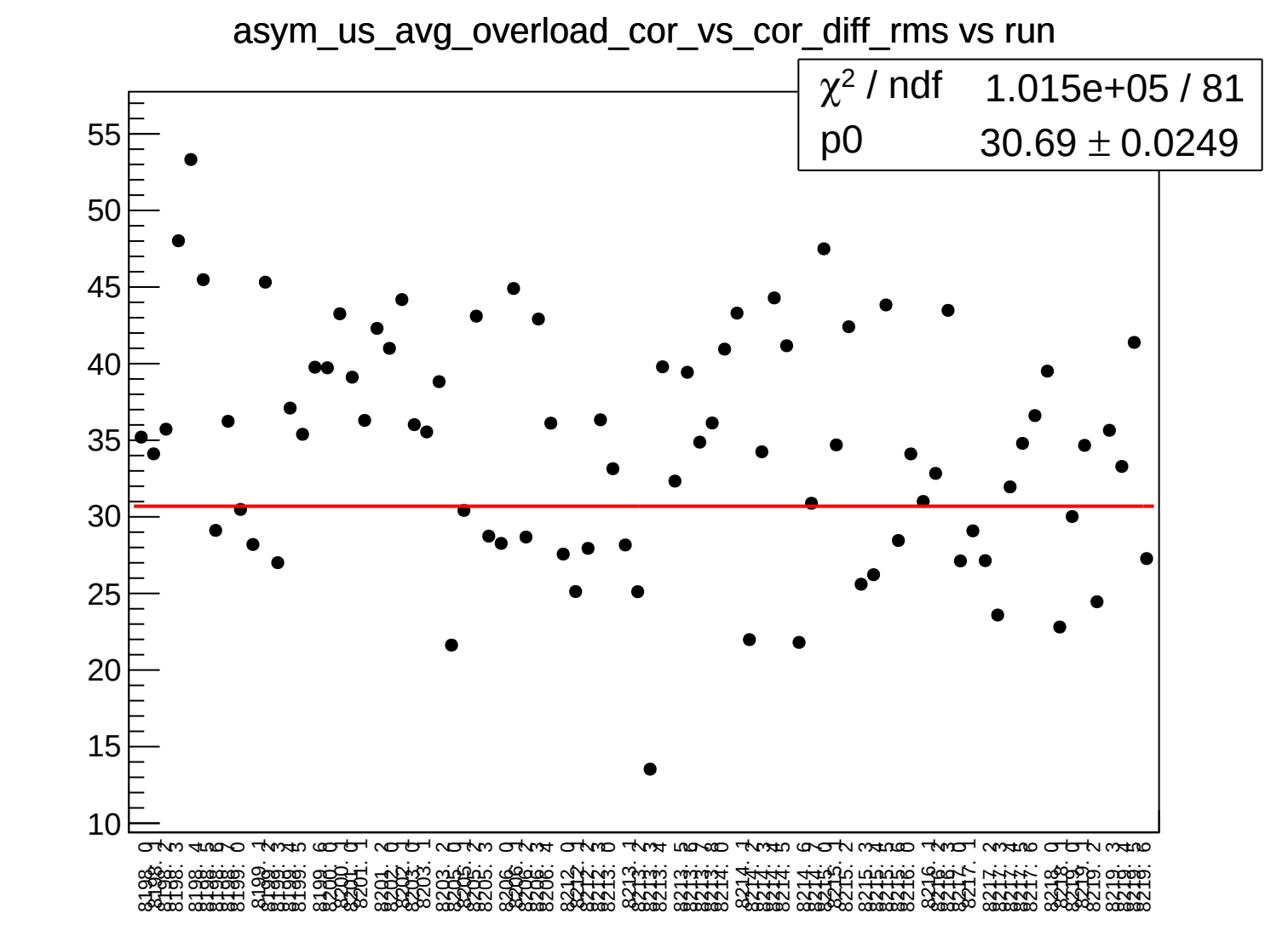

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 111.6 / 81
p0 0.06782 ± 0.06763
pull
Entries 82
Mean −77.82
Std Dev 0
pull1D
Entries 82
Mean −0.02953
Std Dev 1.166

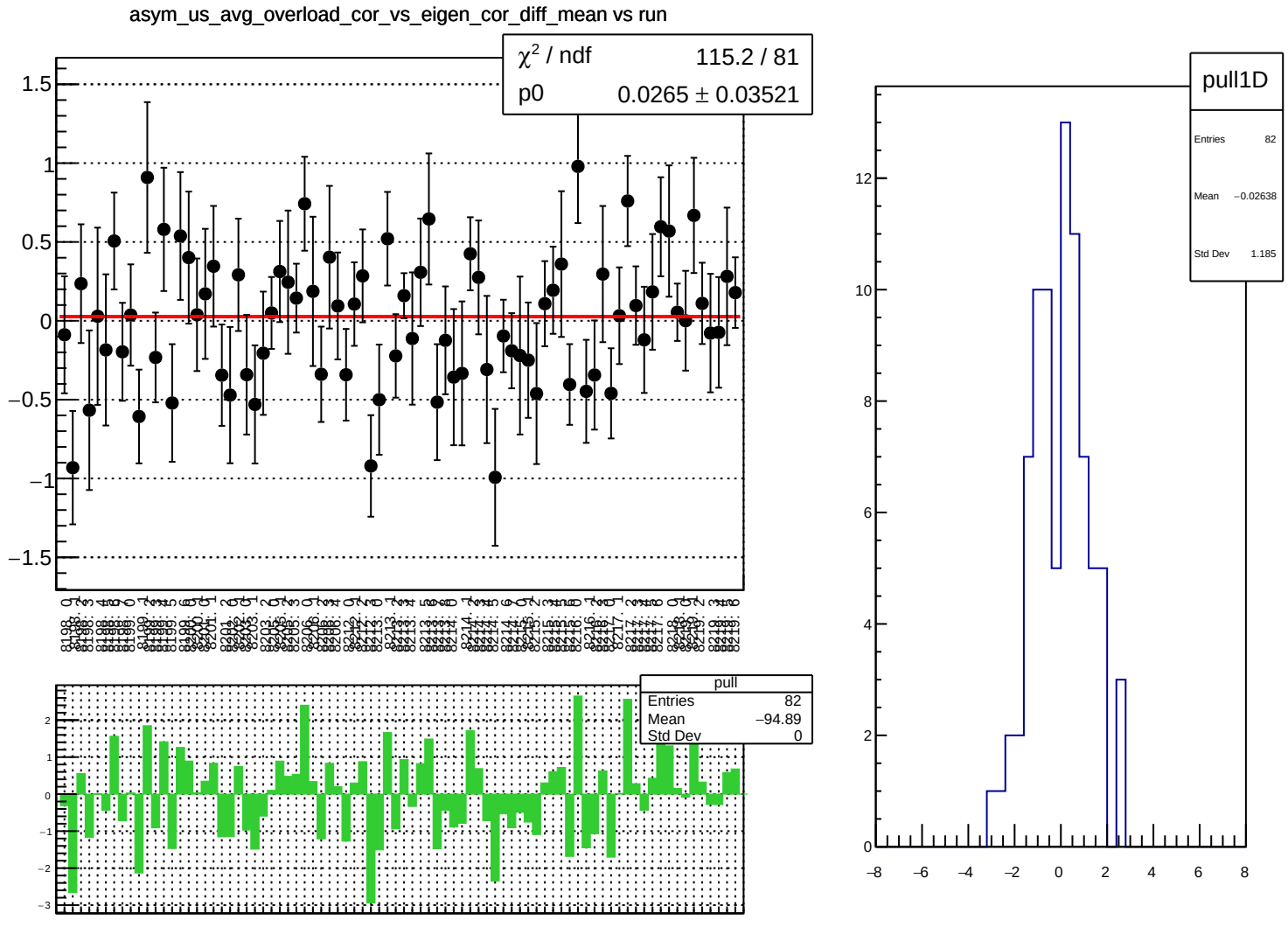

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 9.559e+04 / 81
p0 59.07 ± 0.04782
100
90
80
70
60
50
40
30

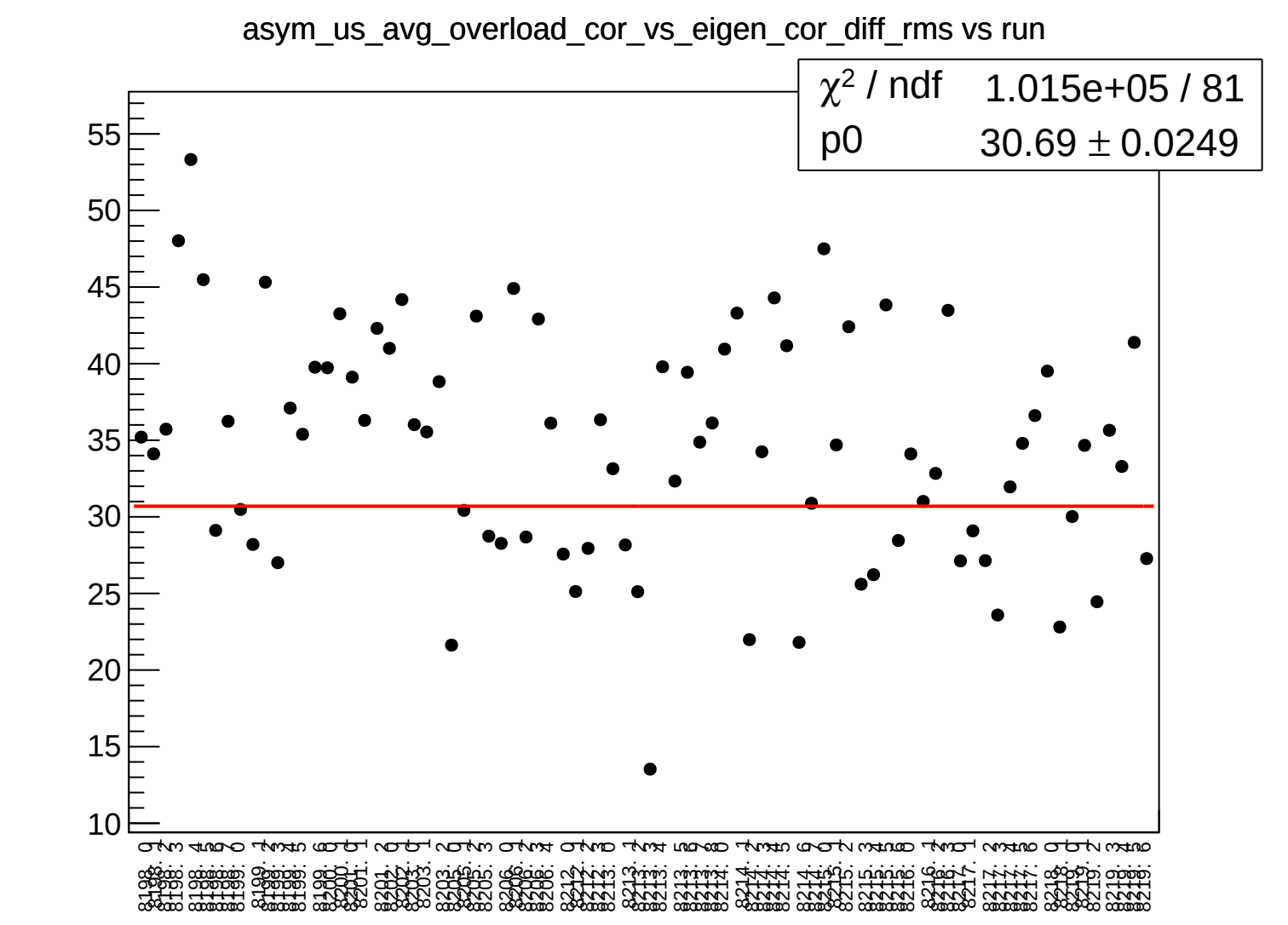

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.32 / 81
p0 1.672e−13 ± 1.263e−13
pull
Entries 82
Mean 60.66
Std Dev 21.25
pull1D
Entries 82
Mean 0.1065
Std Dev 1.056

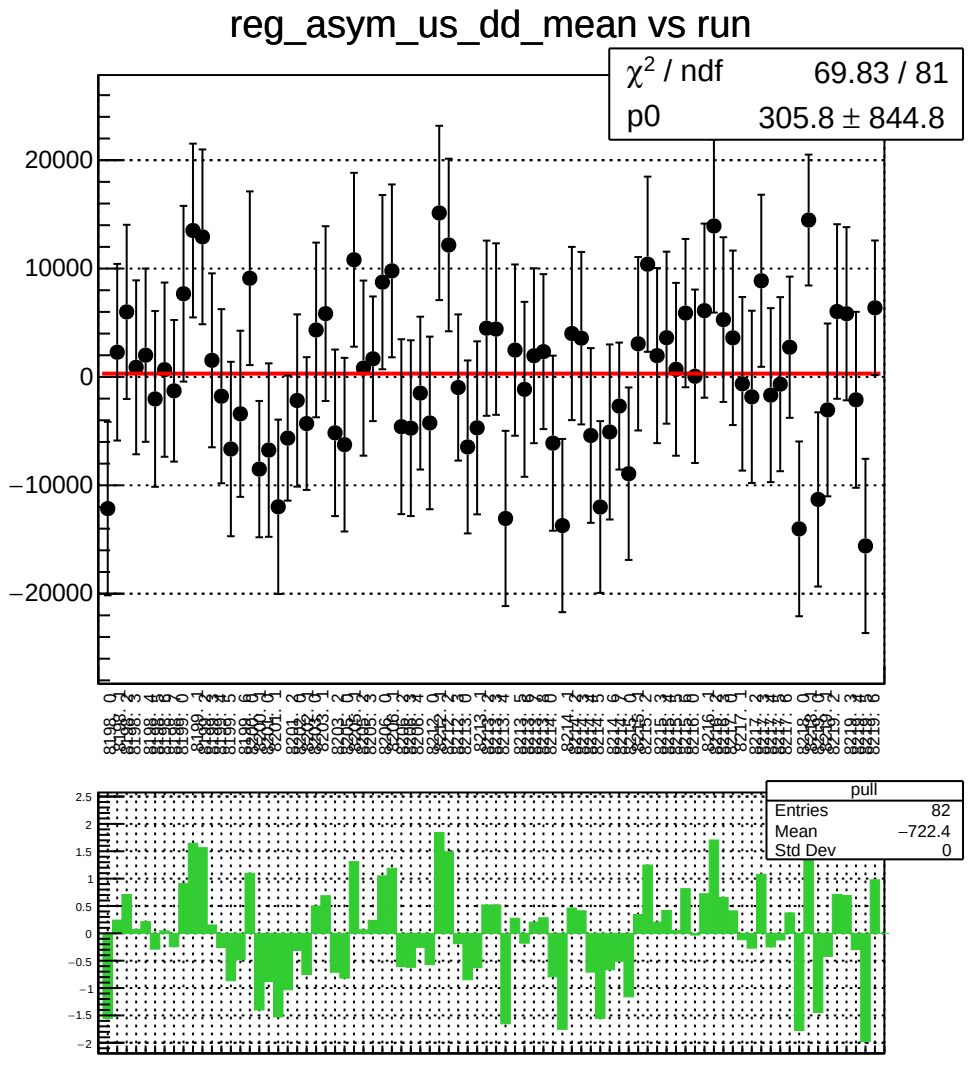

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.387e+05 / 81
p0 8.855e−11 ± 8.934e−14
0.6
0.5
0.4
0.3
0.2
0.1

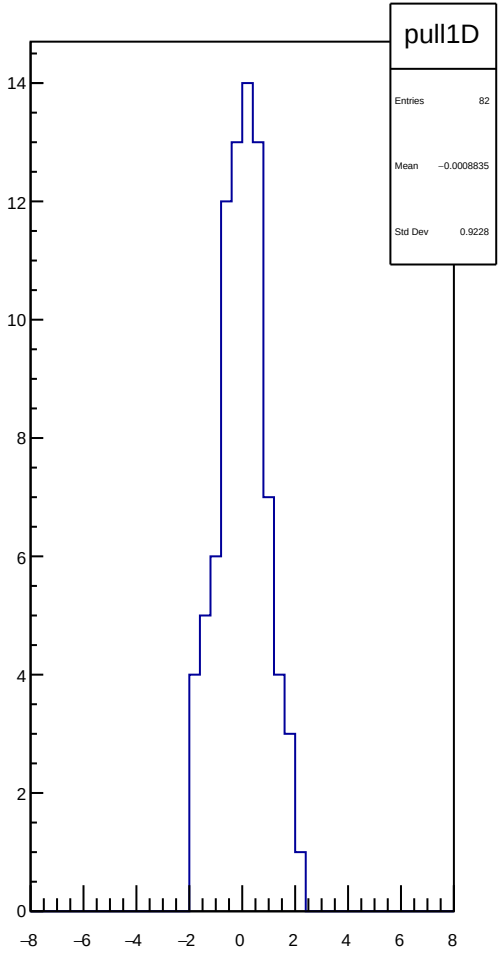

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 115.2 / 81
p0 0.0265 ± 0.03521
pull
Entries 82
Mean −94.89
Std Dev 0
pull1D
Entries 82
Mean −0.02638
Std Dev 1.185

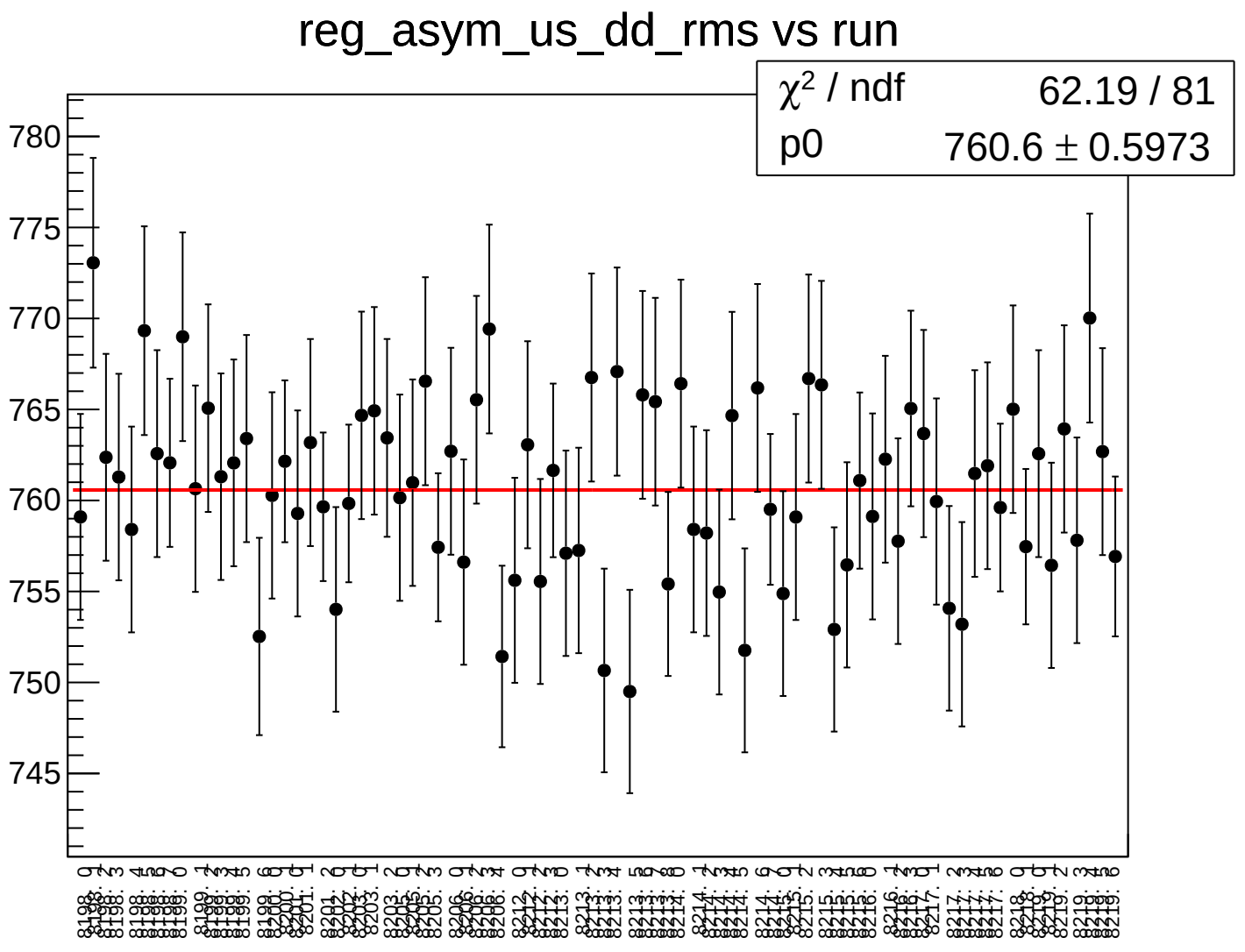

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.015e+05 / 81
p0 30.69 ± 0.0249
55
50
45
40
35
30
25
20
15
10

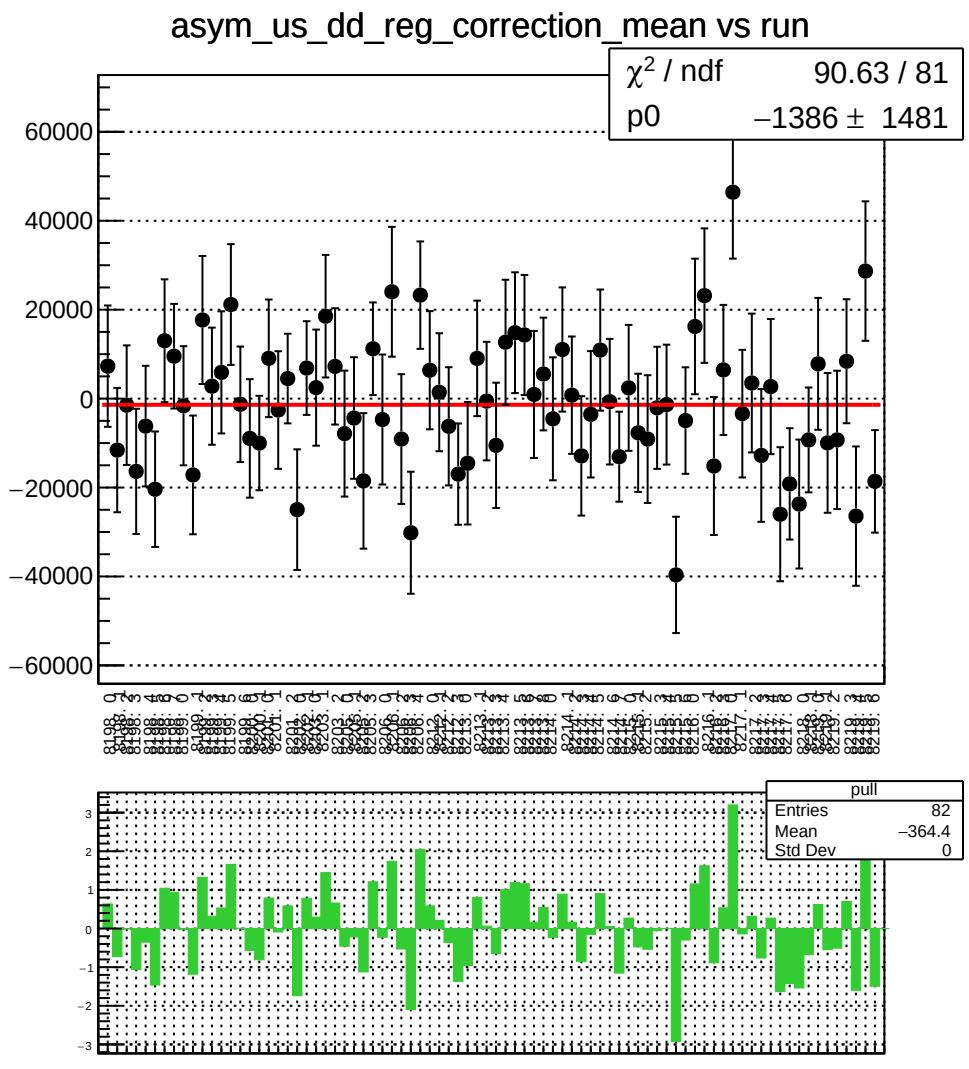

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.2 / 81
p0 0.0265 ± 0.03521
pull
Entries 82
Mean −94.89
Std Dev 0
pull1D
Entries 82
Mean −0.02638
Std Dev 1.185

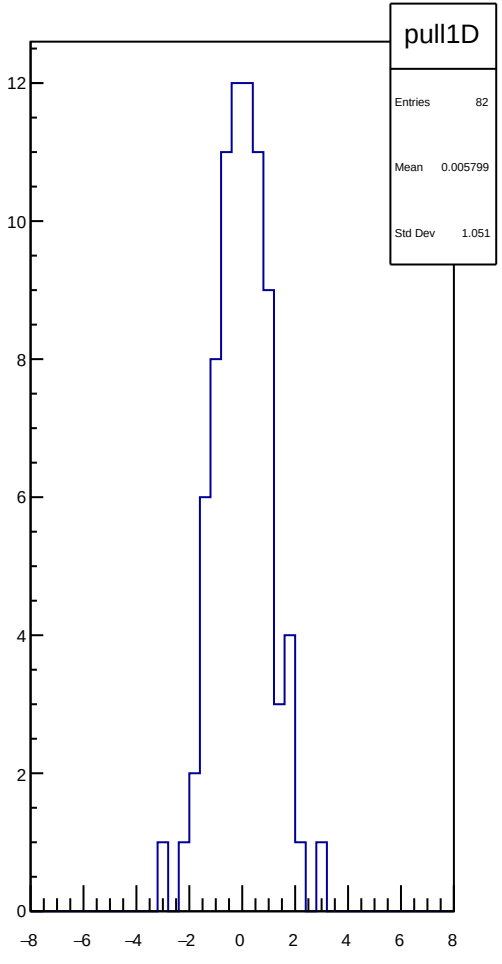

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.015e+05 / 81
p0 30.69 ± 0.0249
55
50
45
40
35
30
25
20
15
10

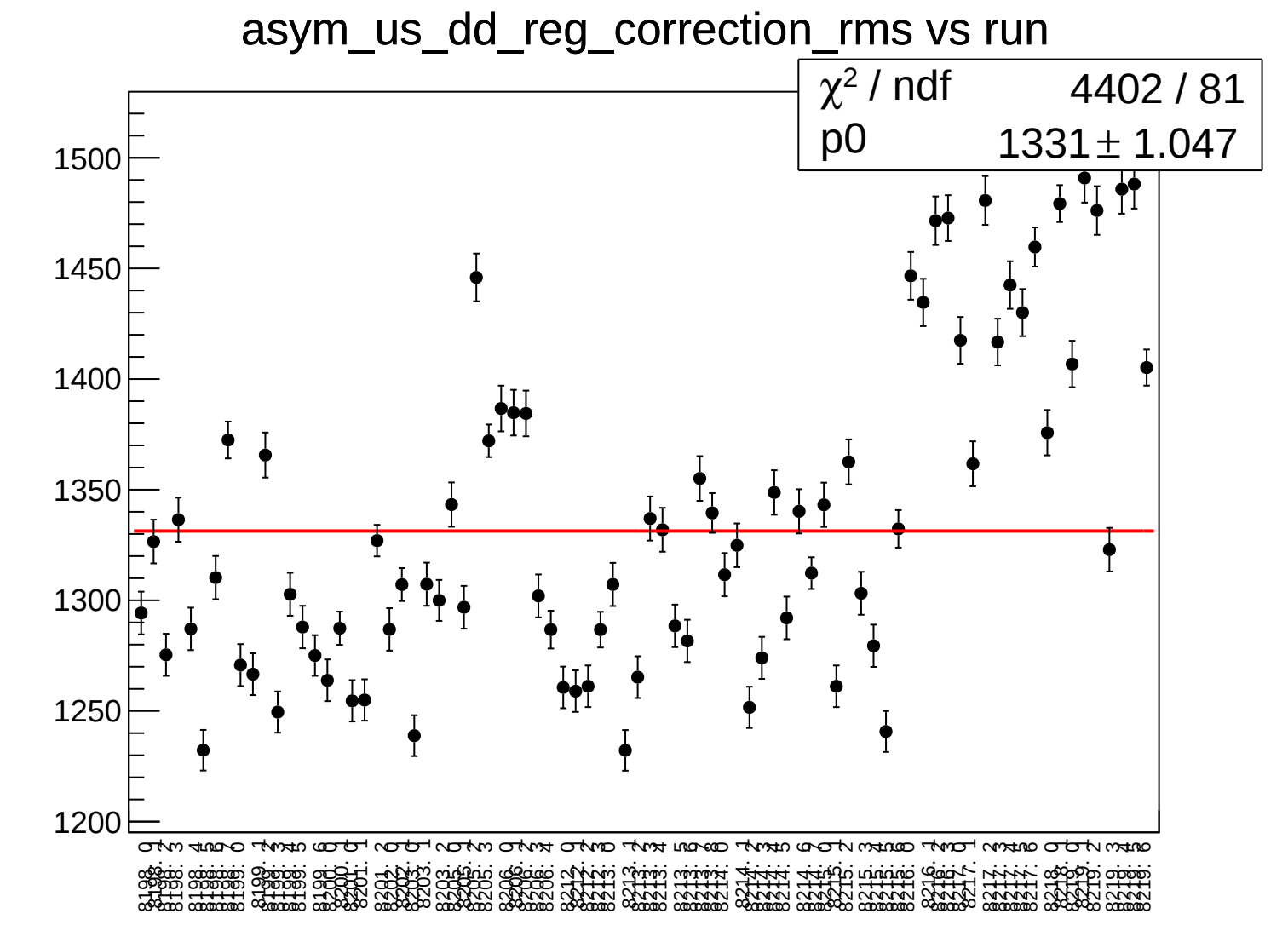

reg_asym_us_dd_mean vs run
χ² / ndf 69.83 / 81
p0 305.8 ± 844.8
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −722.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

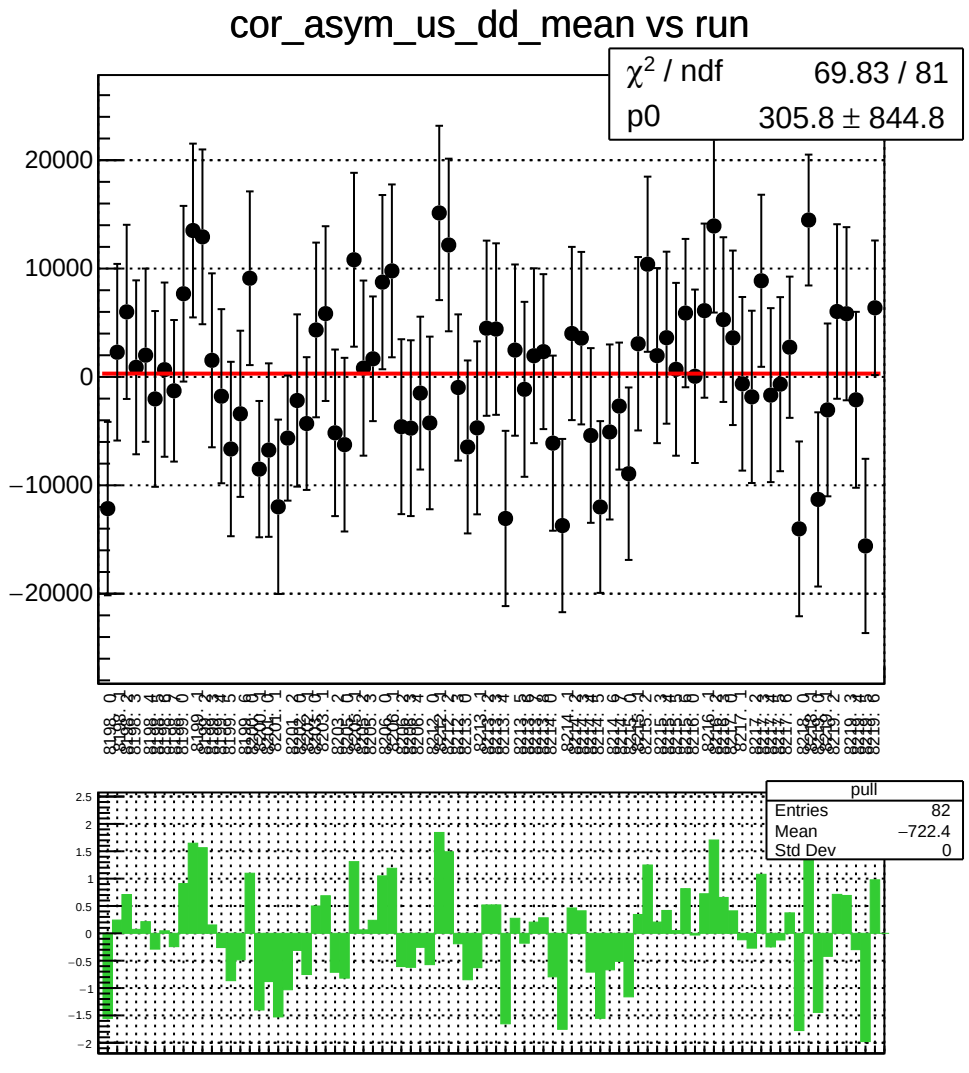

pull1D
Entries 82
Mean −0.0008835
Std Dev 0.9228
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

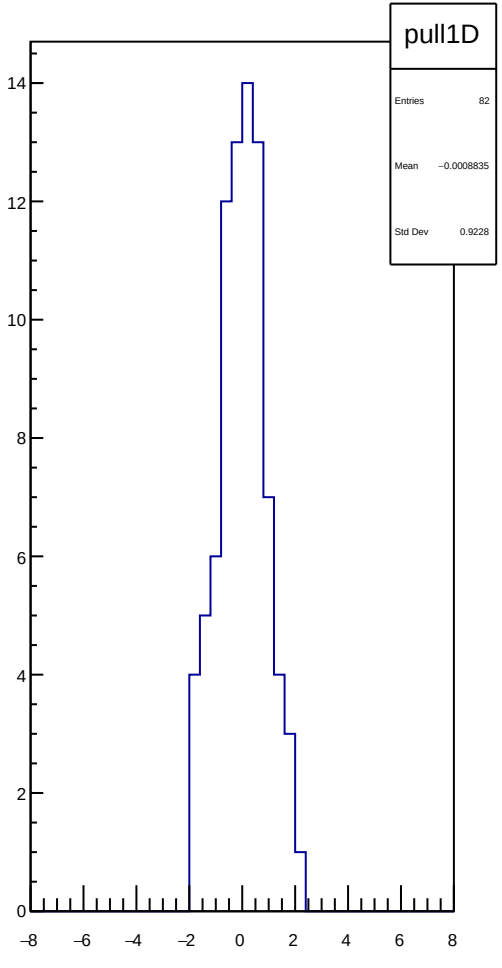

reg_asym_us_dd_rms vs run
χ² / ndf 62.19 / 81
p0 760.6 ± 0.5973
780
775
770
765
760
755
750
745

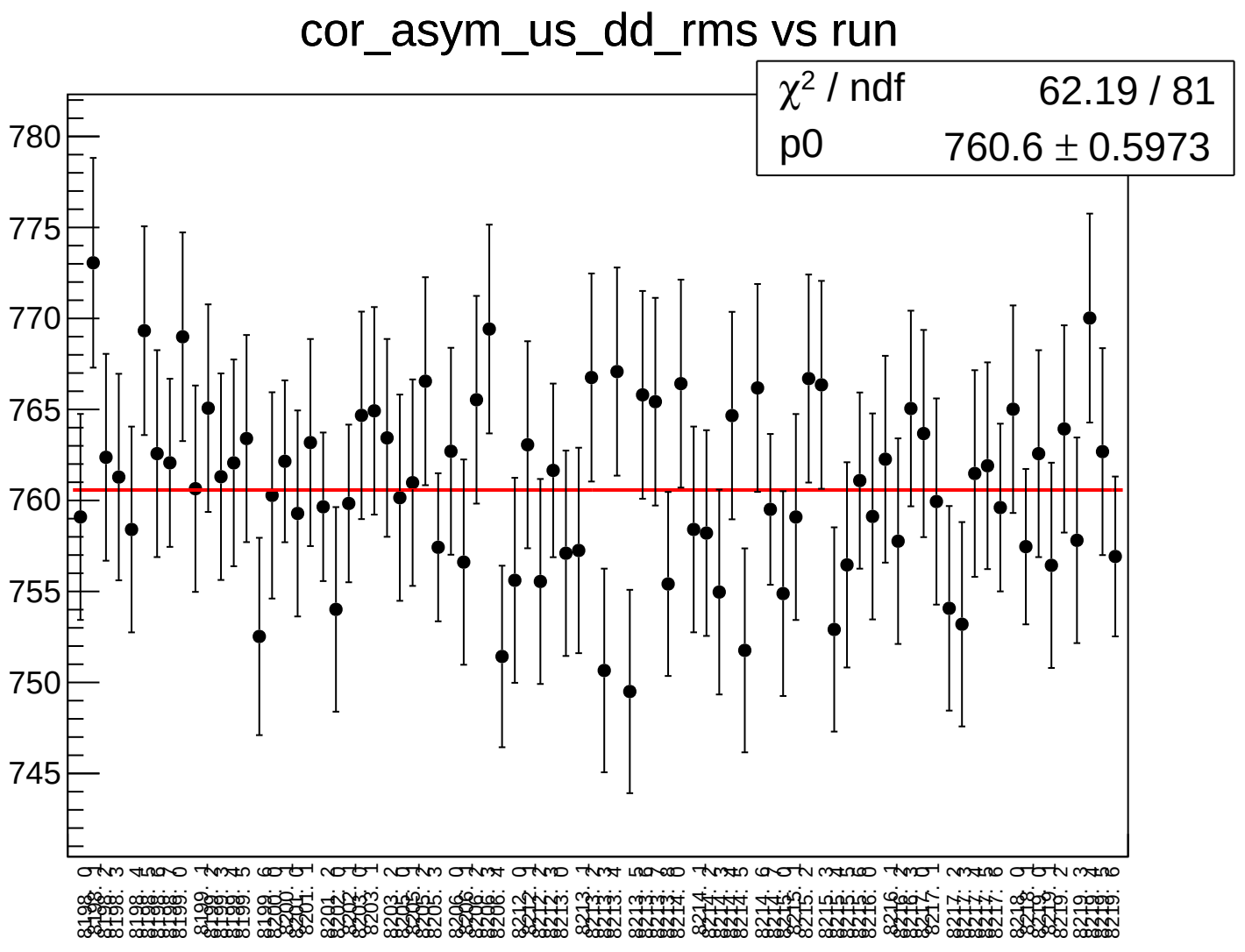

asym_us_dd_reg_correction_mean vs run
χ² / ndf 90.63 / 81
p0 −1386 ± 1481
pull
Entries 82
Mean −364.4
Std Dev 0

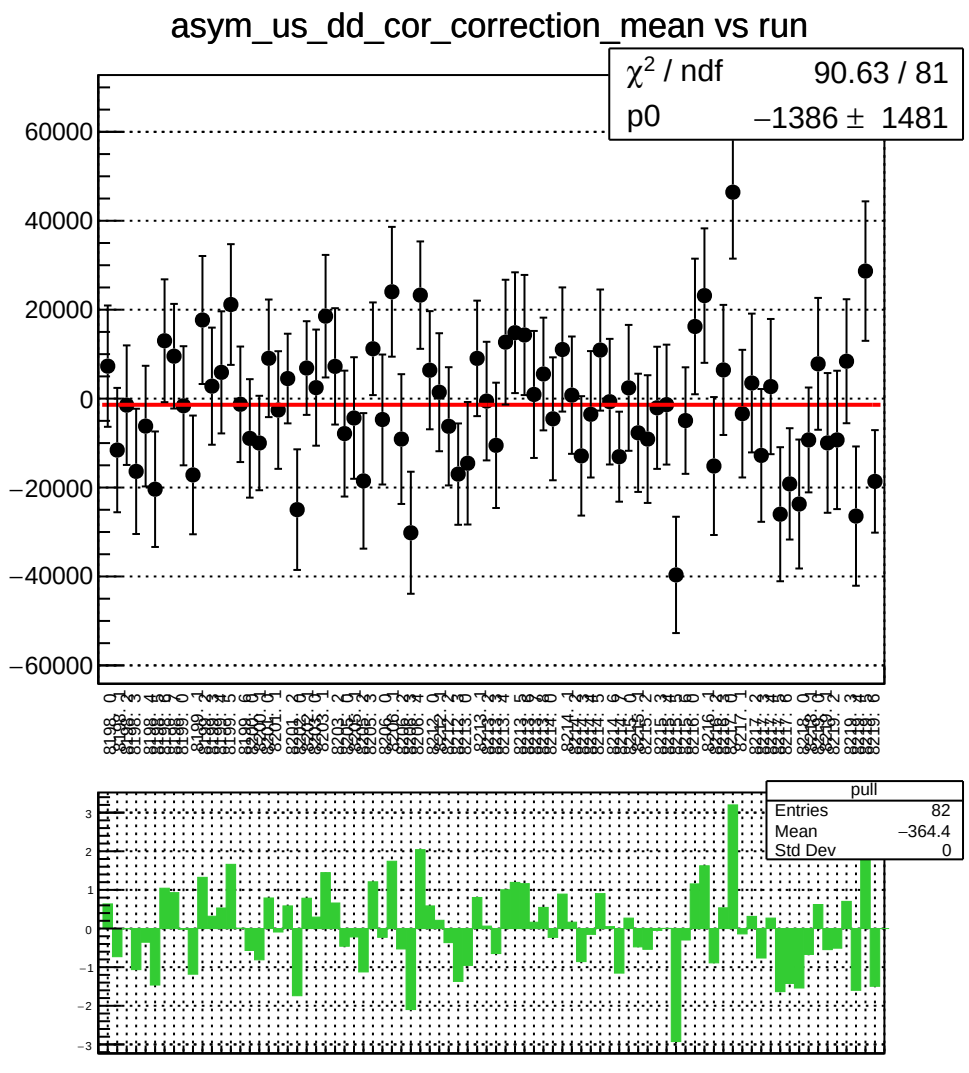

pull1D
Entries 82
Mean 0.005799
Std Dev 1.051

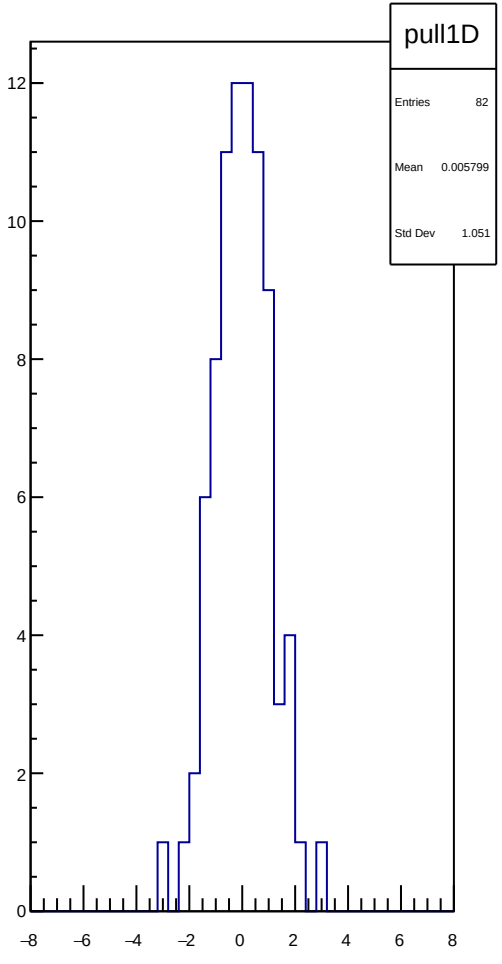

asym_us_dd_reg_correction_rms vs run
χ² / ndf 4402 / 81
p0 1331 ± 1.047
1500
1450
1400
1350
1300
1250
1200

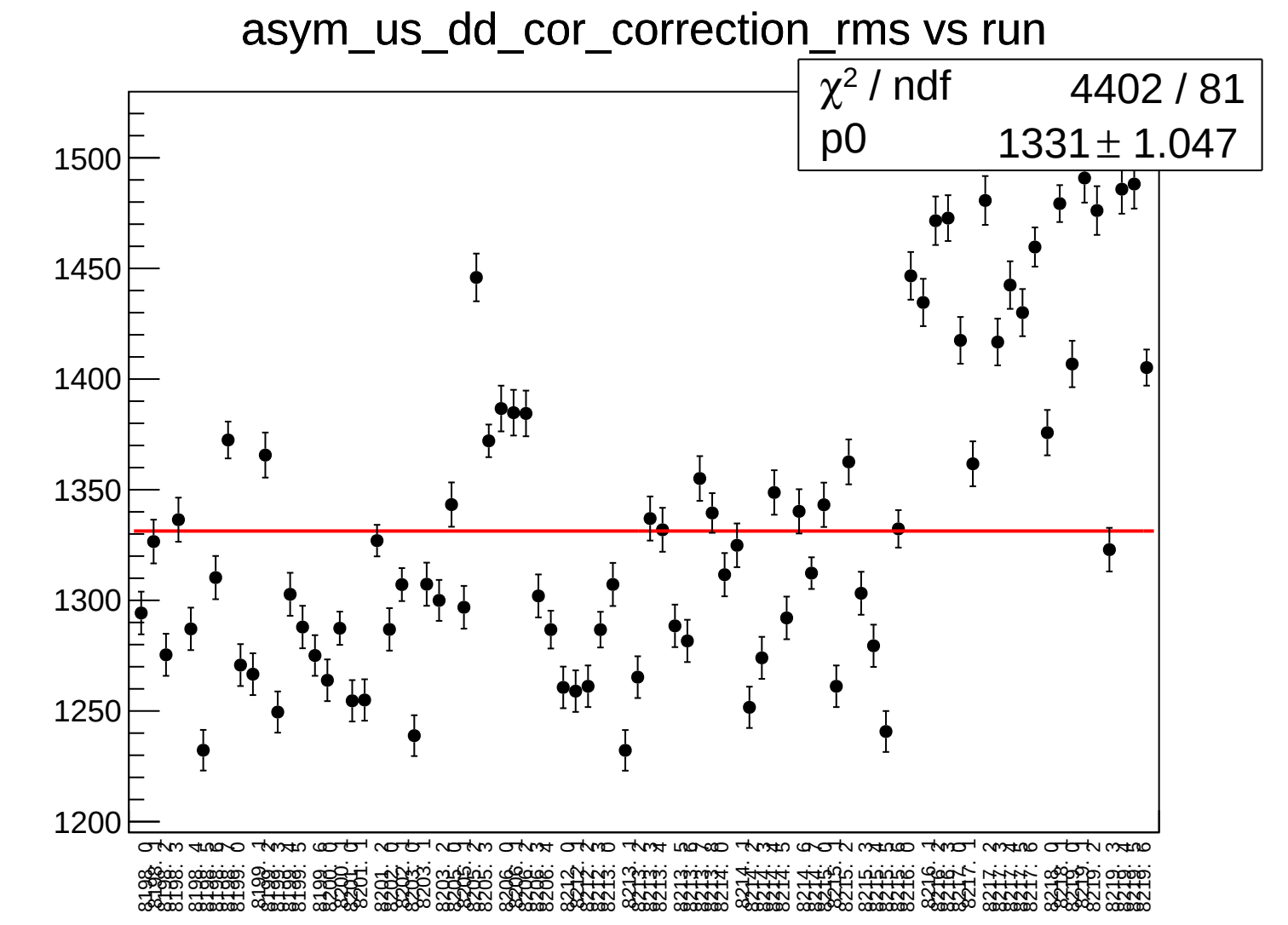

cor_asym_us_dd_mean vs run
χ² / ndf 69.83 / 81
p0 305.8 ± 844.8
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −722.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

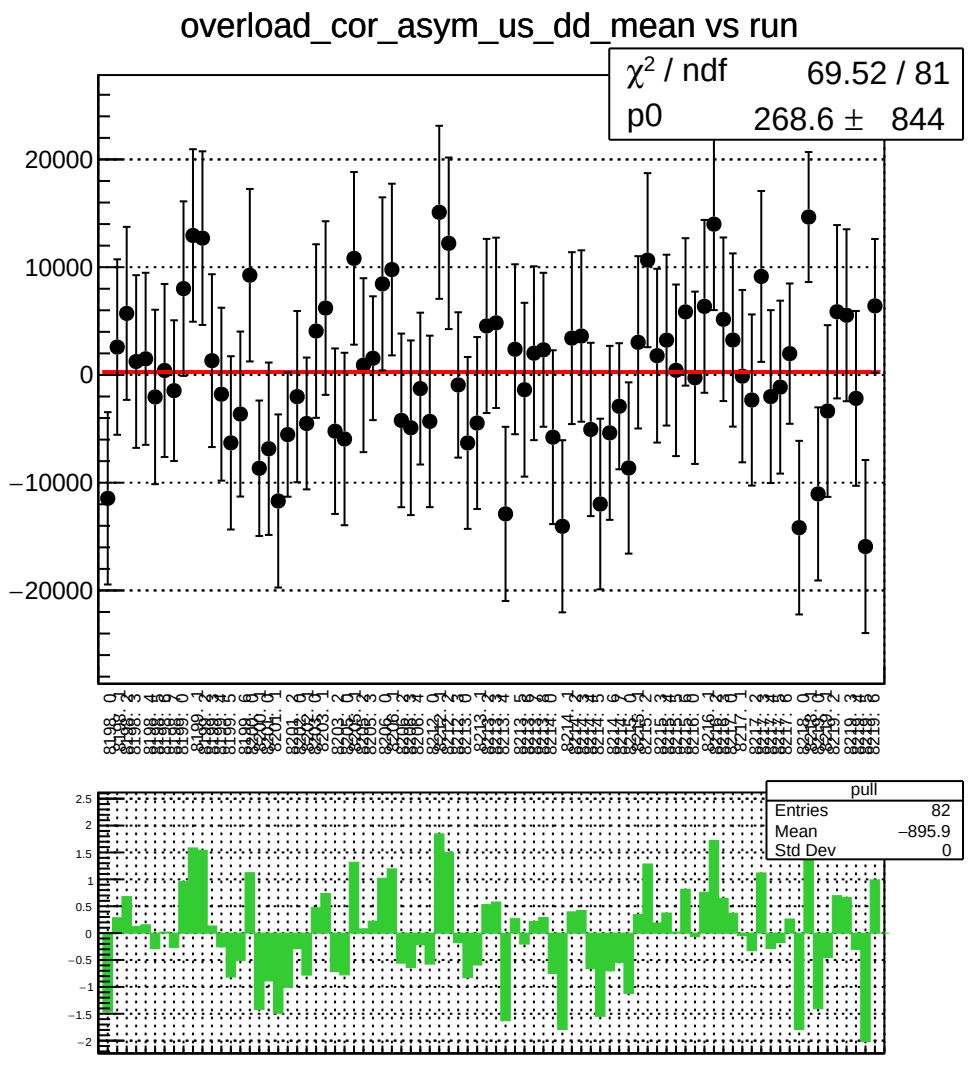

pull1D
Entries 82
Mean −0.0008835
Std Dev 0.9228
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

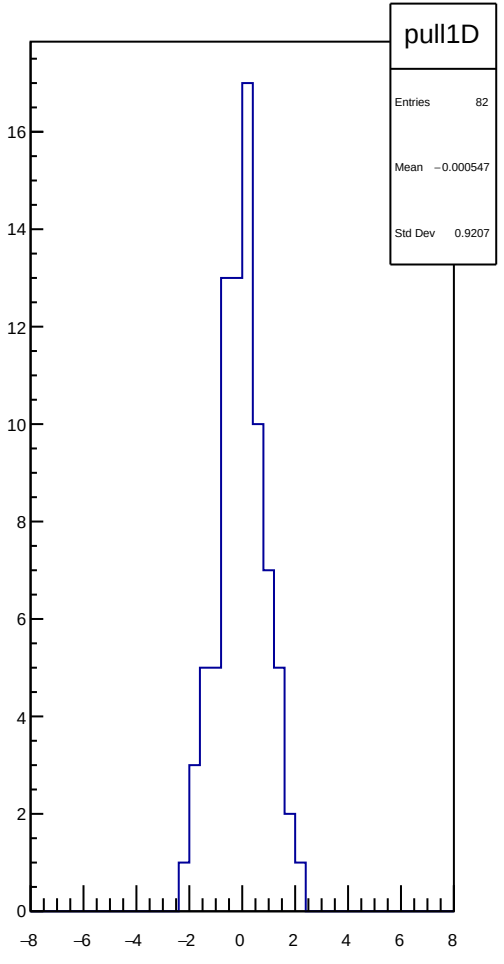

cor_asym_us_dd_rms vs run
χ² / ndf 62.19 / 81
p0 760.6 ± 0.5973
780
775
770
765
760
755
750
745

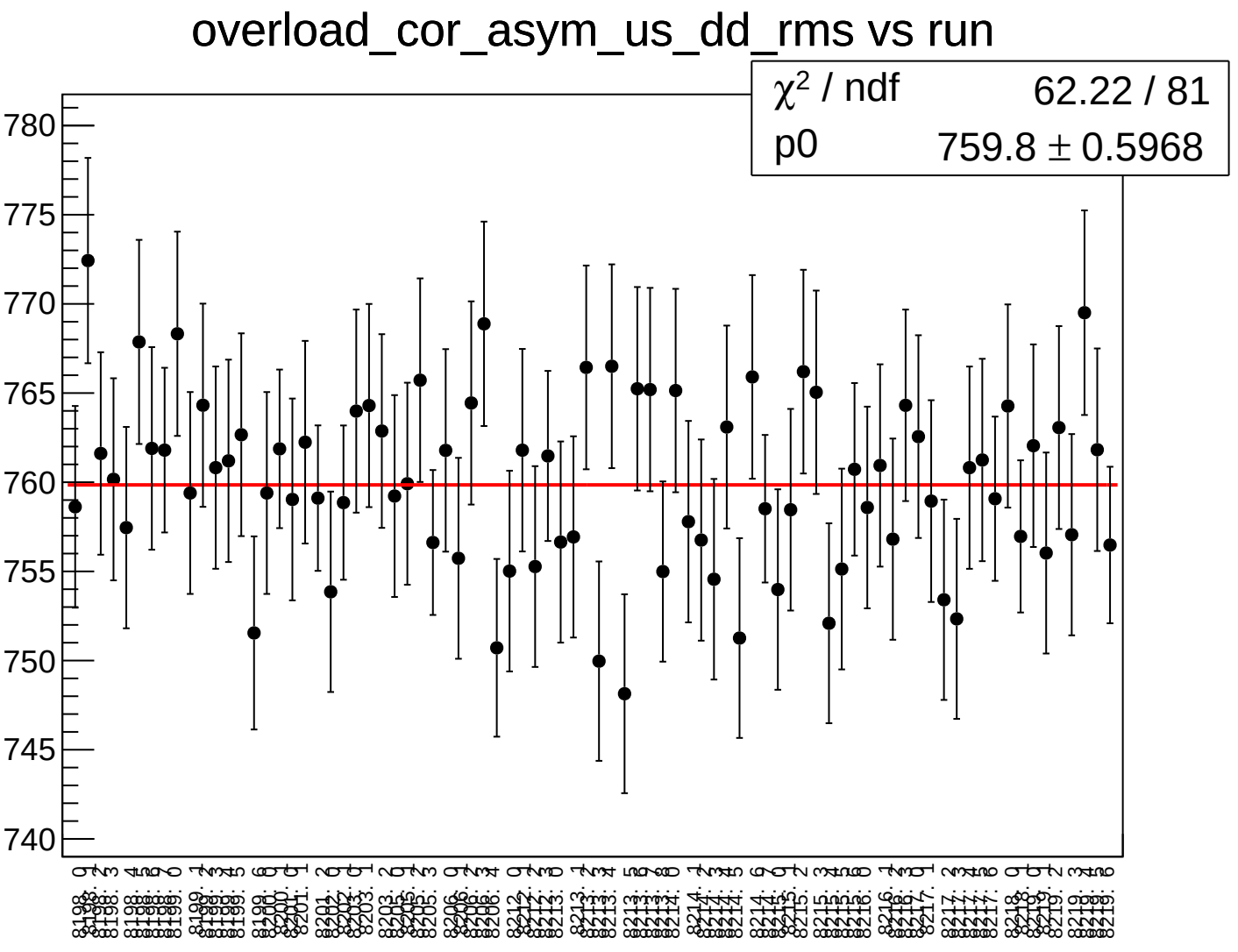

asym_us_dd_cor_correction_mean vs run
χ² / ndf 90.63 / 81
p0 −1386 ± 1481
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −364.4
Std Dev 0
3
2
1
0
−1
−2
−3

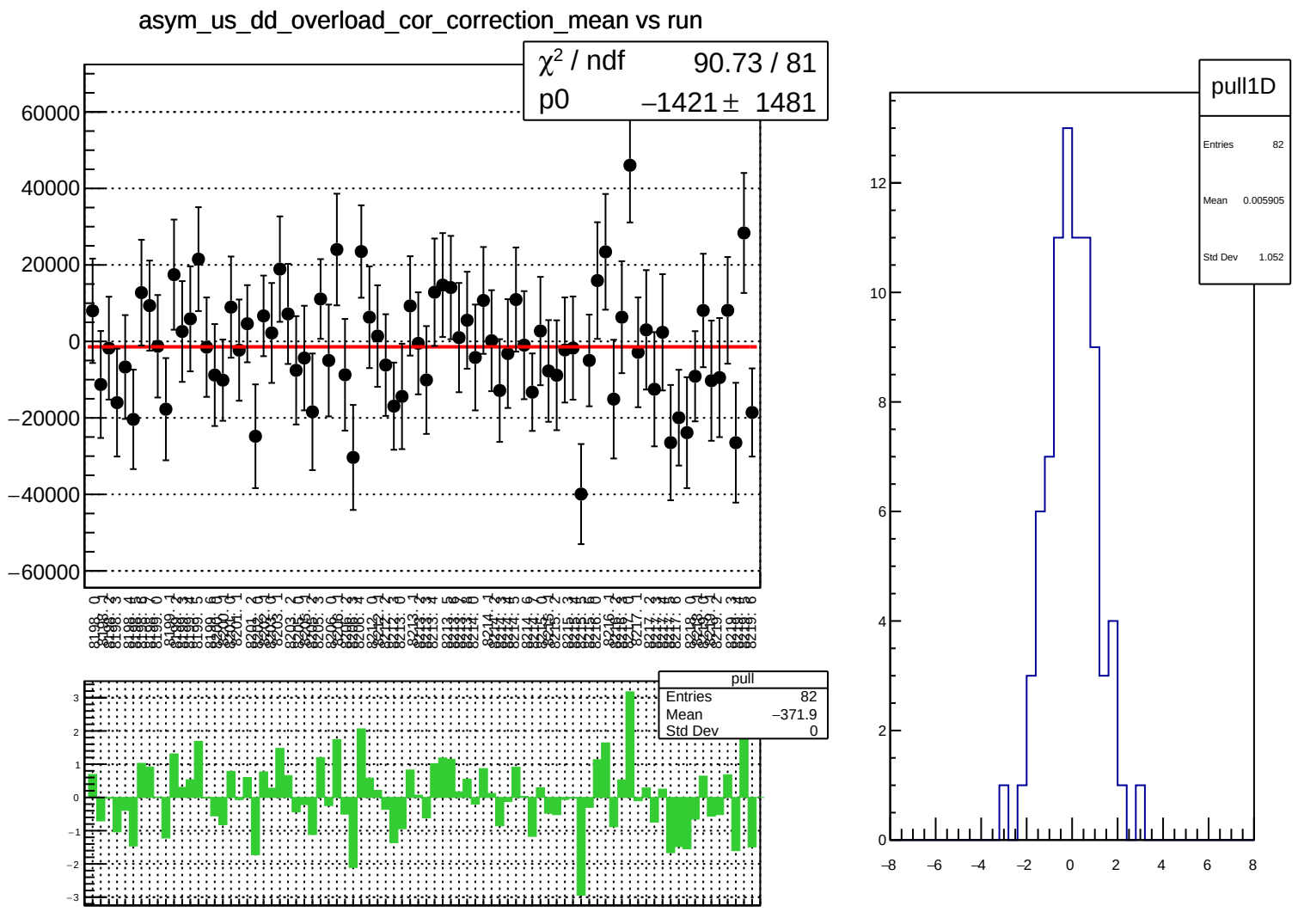

pull1D
Entries 82
Mean 0.005799
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

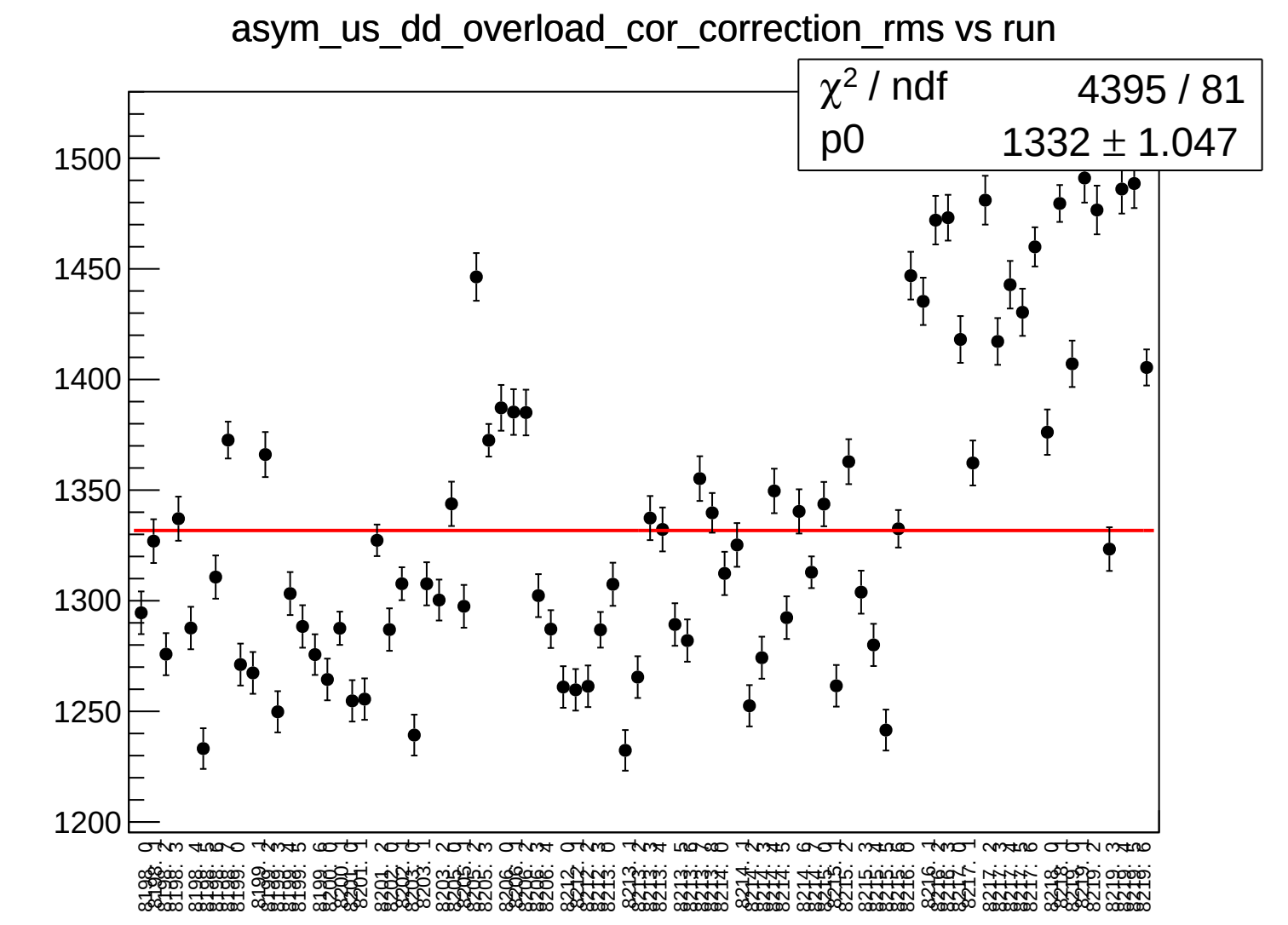

asym_us_dd_cor_correction_rms vs run
χ² / ndf 4402 / 81
p0 1331 ± 1.047
1500
1450
1400
1350
1300
1250
1200

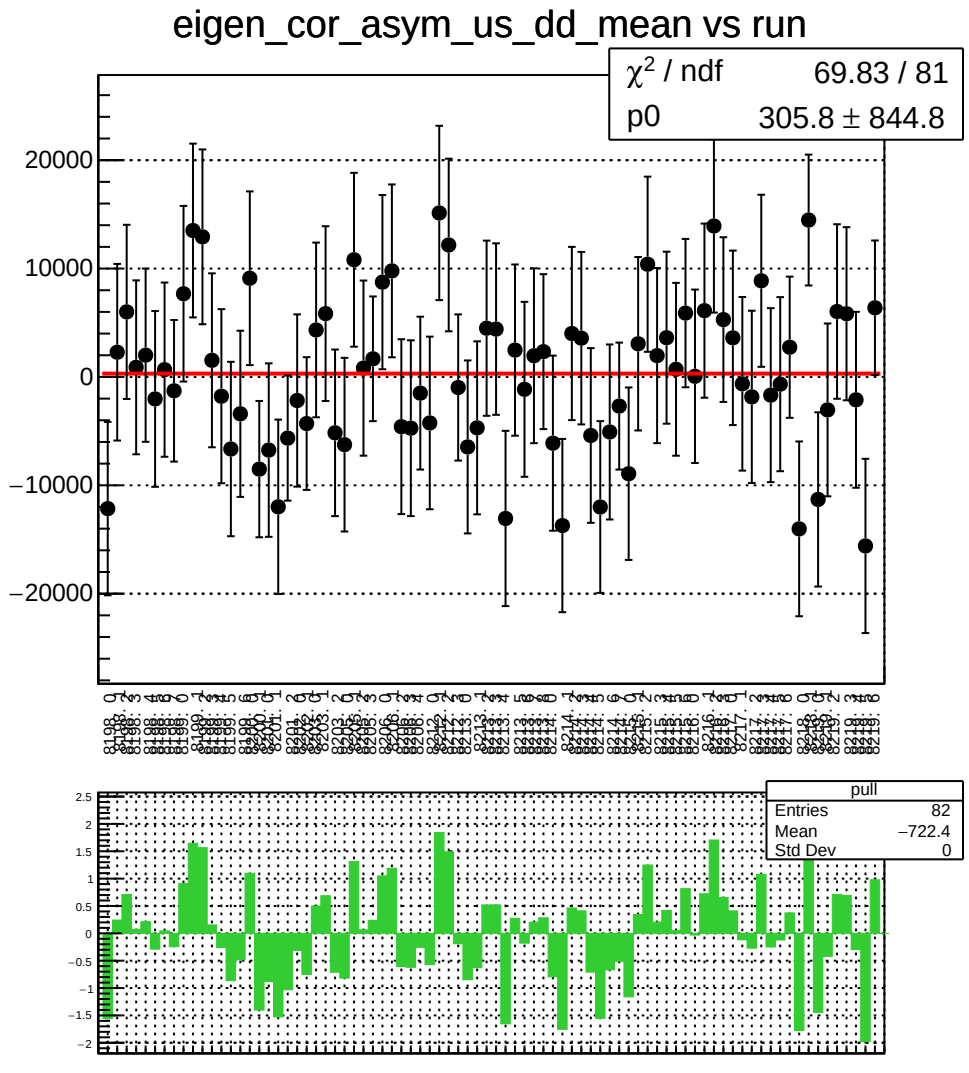

overload_cor_asym_us_dd_mean vs run
χ² / ndf 69.52 / 81
p0 268.6 ± 844
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −895.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

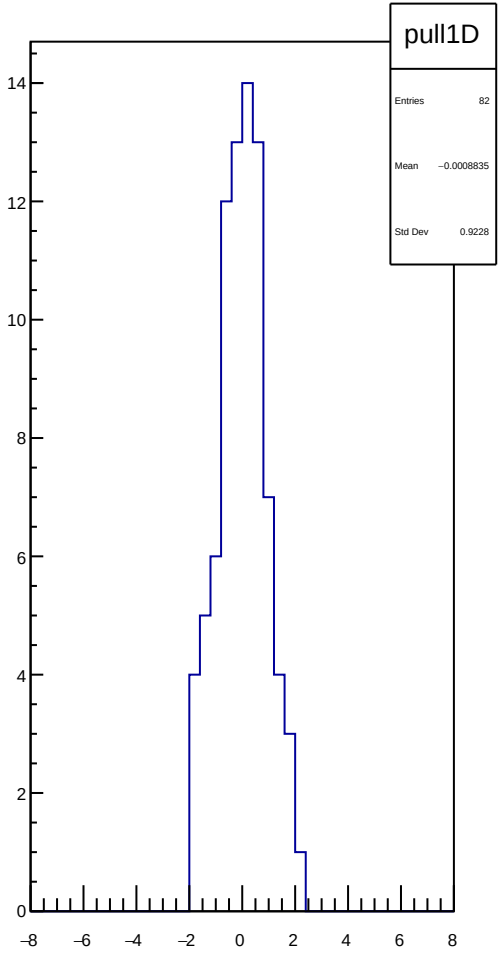

pull1D
Entries 82
Mean −0.000547
Std Dev 0.9207
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_dd_rms vs run
χ² / ndf 62.22 / 81
p0 759.8 ± 0.5968
780
775
770
765
760
755
750
745
740


asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 90.73 / 81
p0 −1421 ± 1481
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −371.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.005905
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 4395 / 81
p0 1332 ± 1.047
1500
1450
1400
1350
1300
1250
1200


eigen_cor_asym_us_dd_mean vs run
χ² / ndf 69.83 / 81
p0 305.8 ± 844.8
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −722.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.0008835
Std Dev 0.9228
14
12
10
8
6
4
2
0
−8
−6
−4
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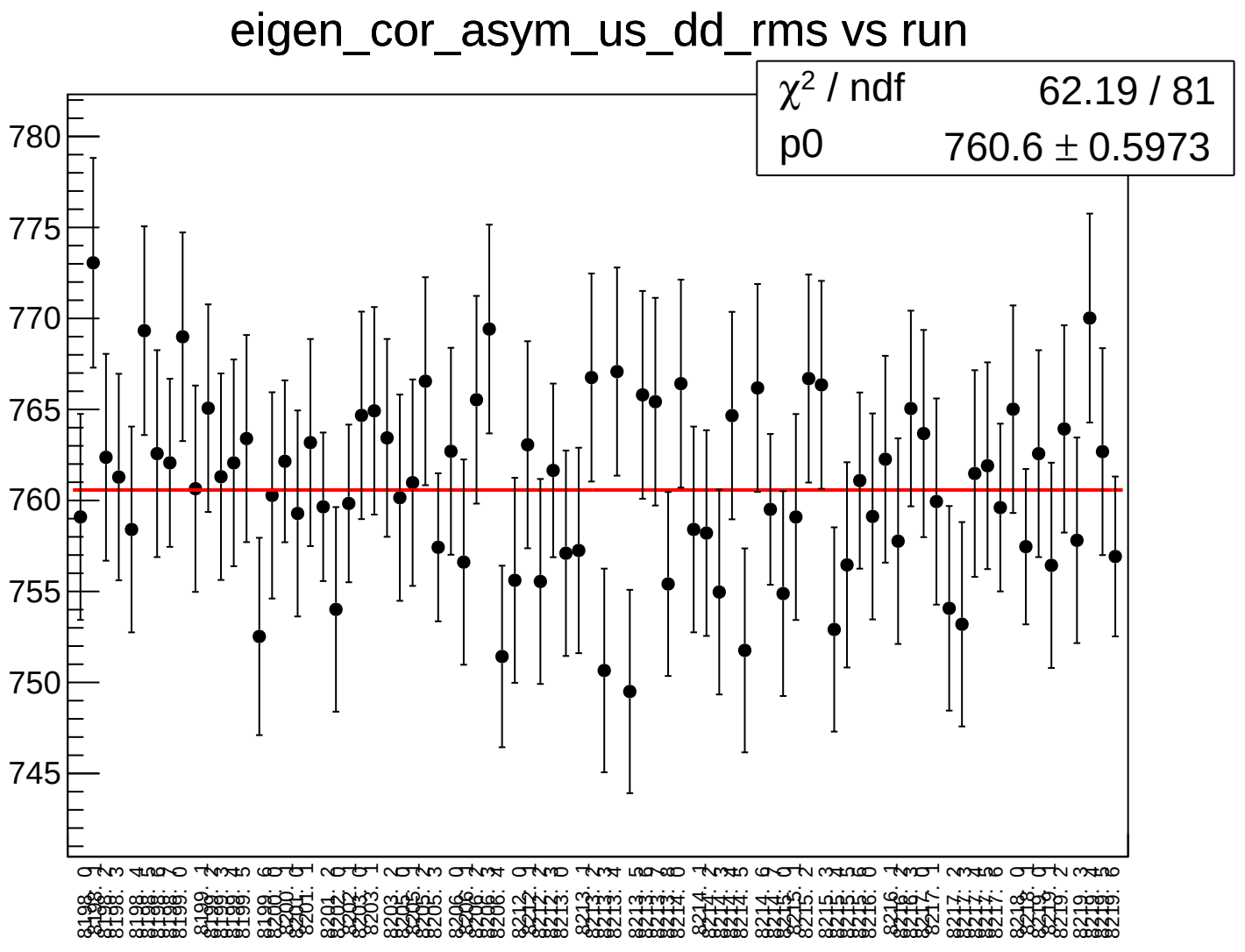
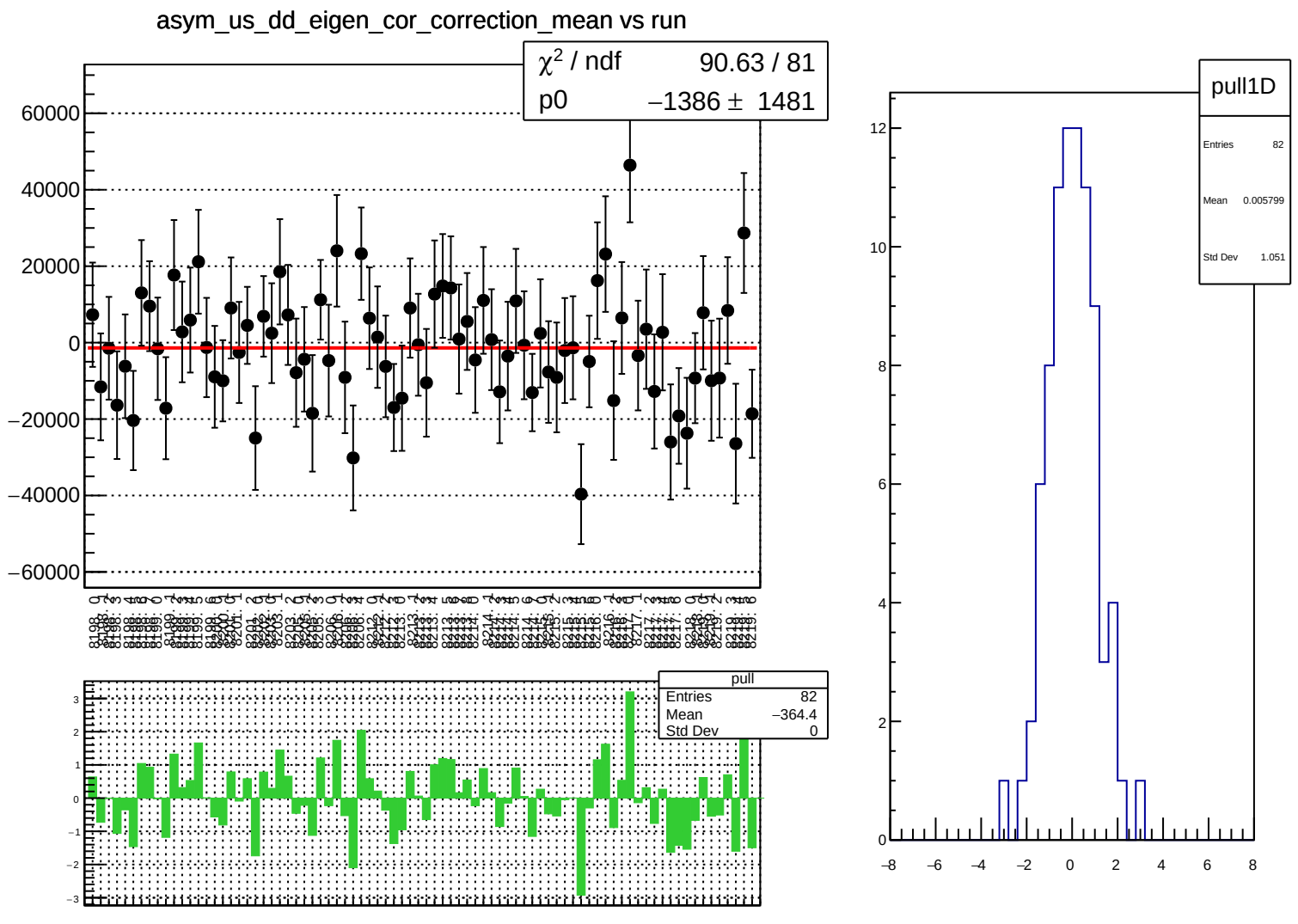
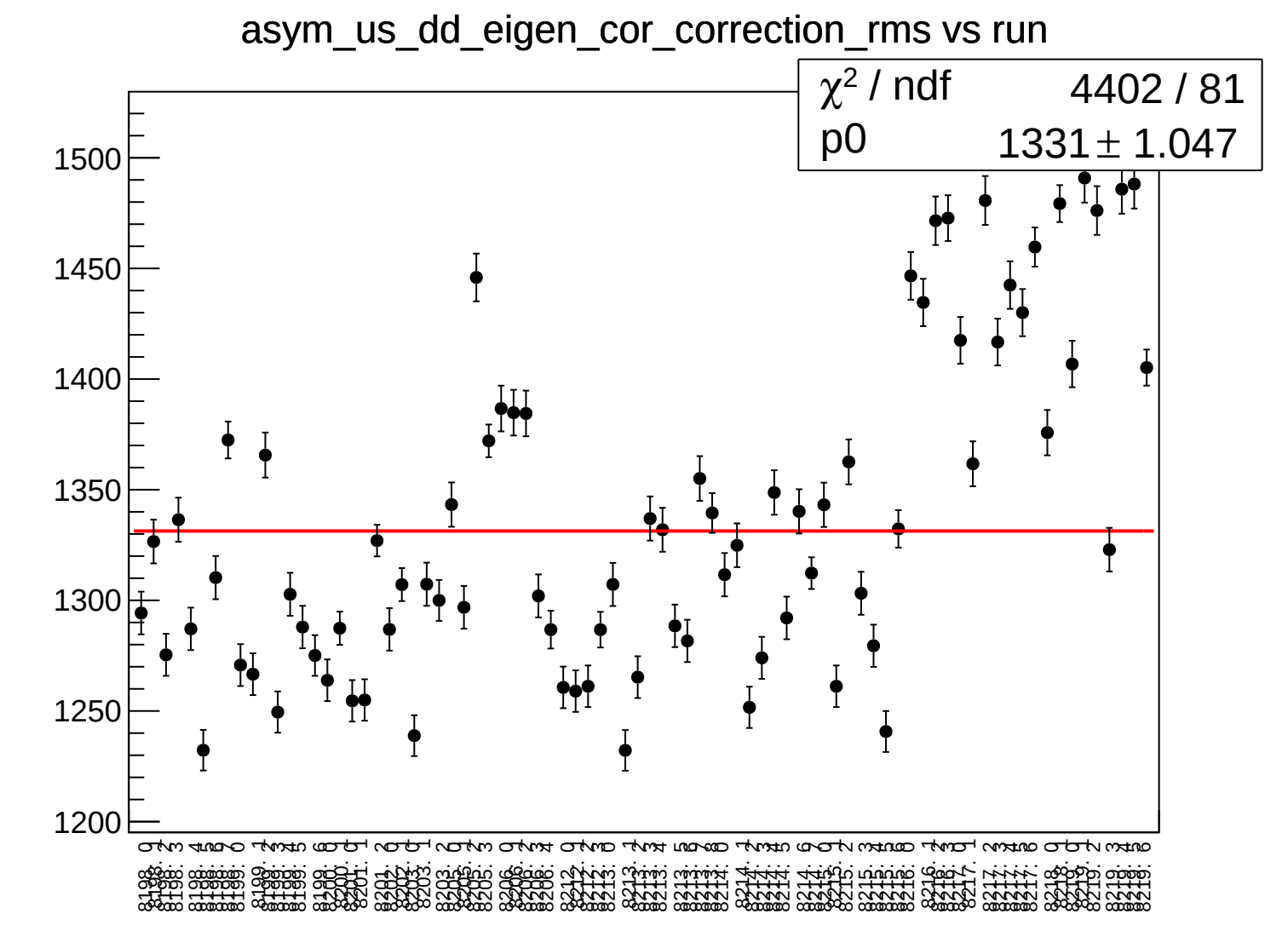
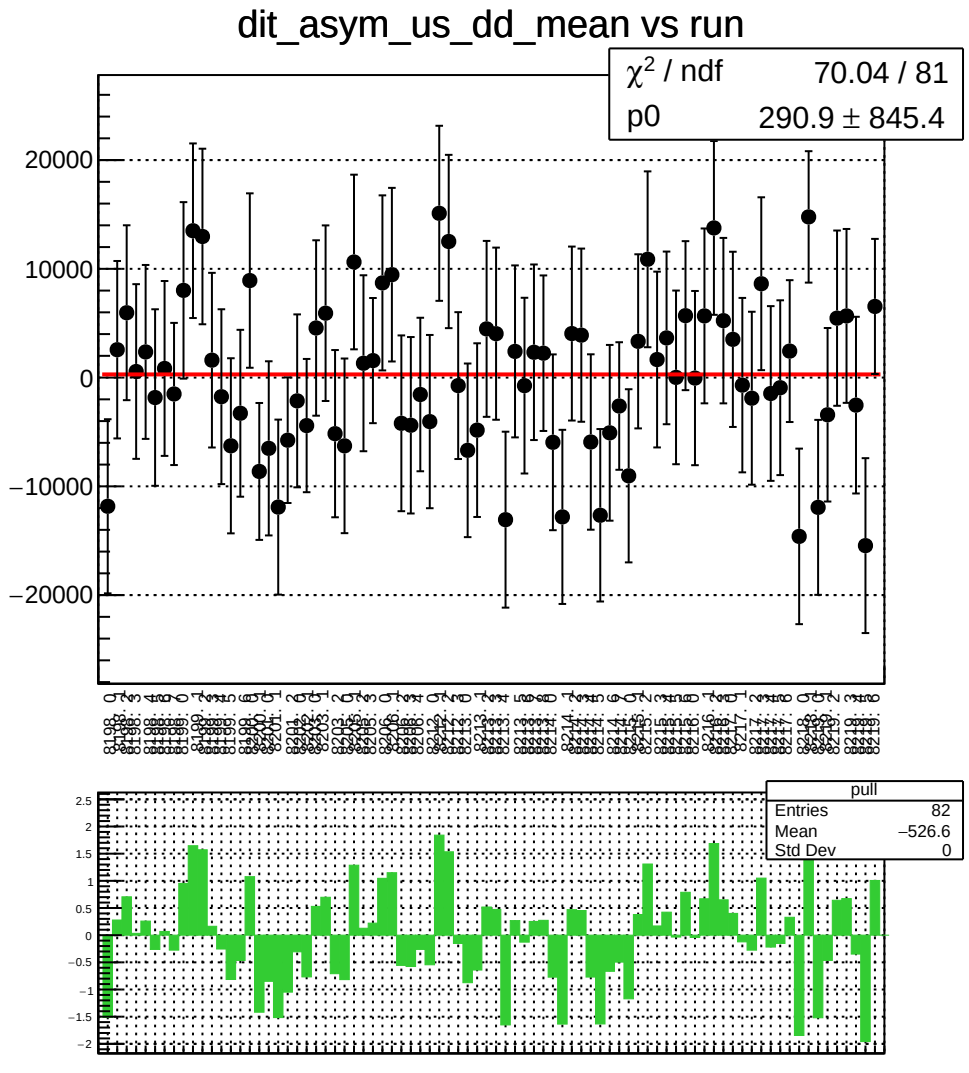
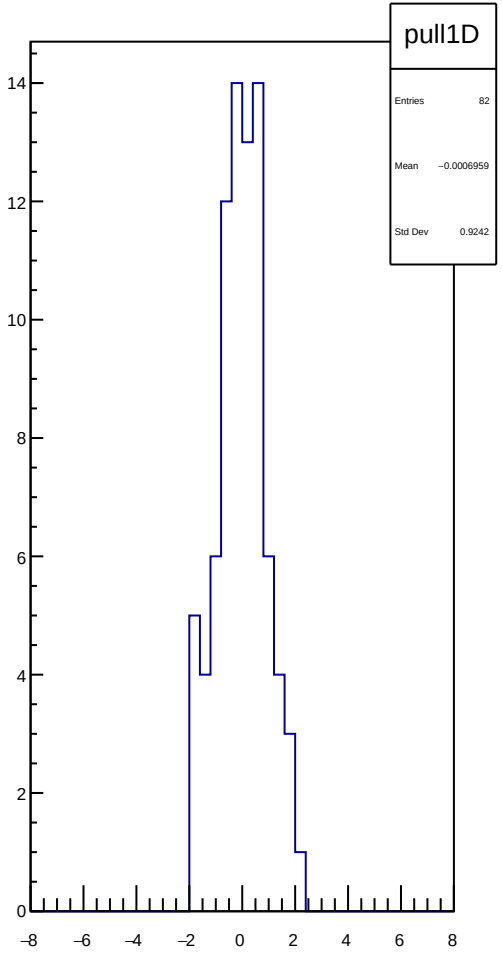
0
2
4
6
8

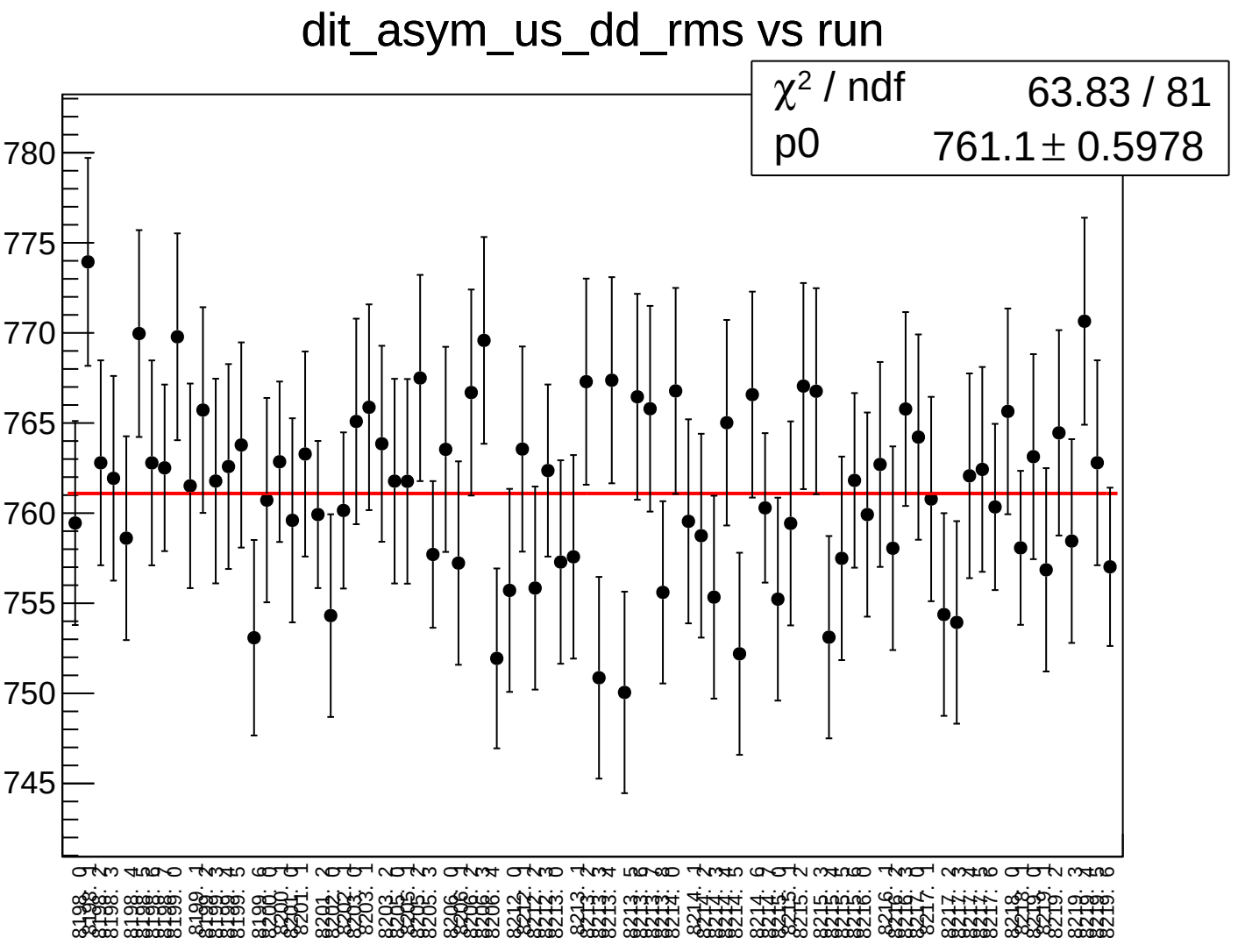

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 62.19 / 81
p0 760.6 ± 0.5973
780
775
770
765
760
755
750
745

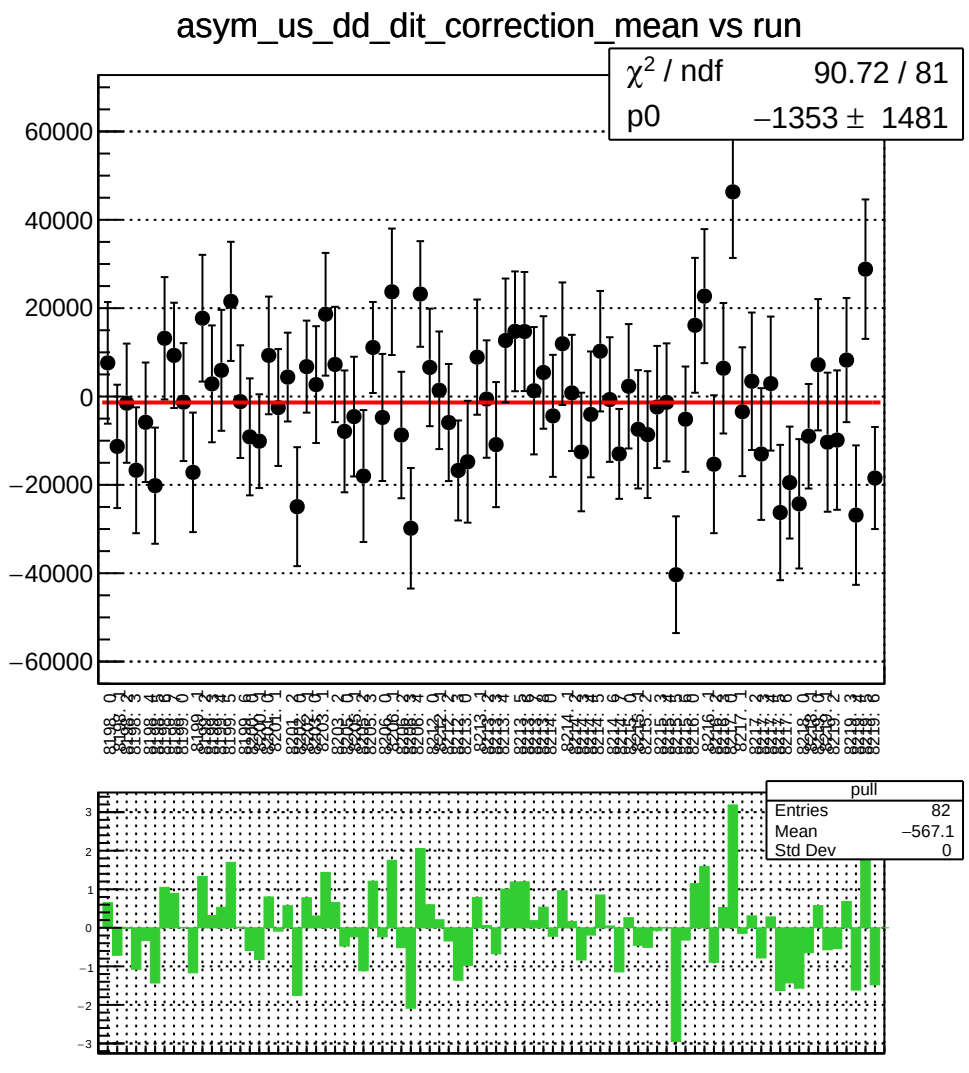

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.63 / 81
p0 −1386 ± 1481
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −364.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.005799
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

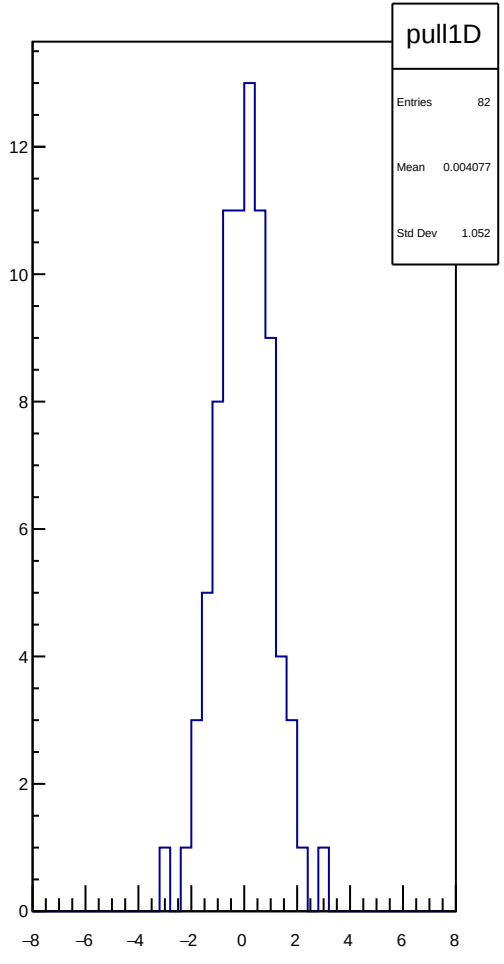

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 4402 / 81
p0 1331 ± 1.047
1500
1450
1400
1350
1300
1250
1200

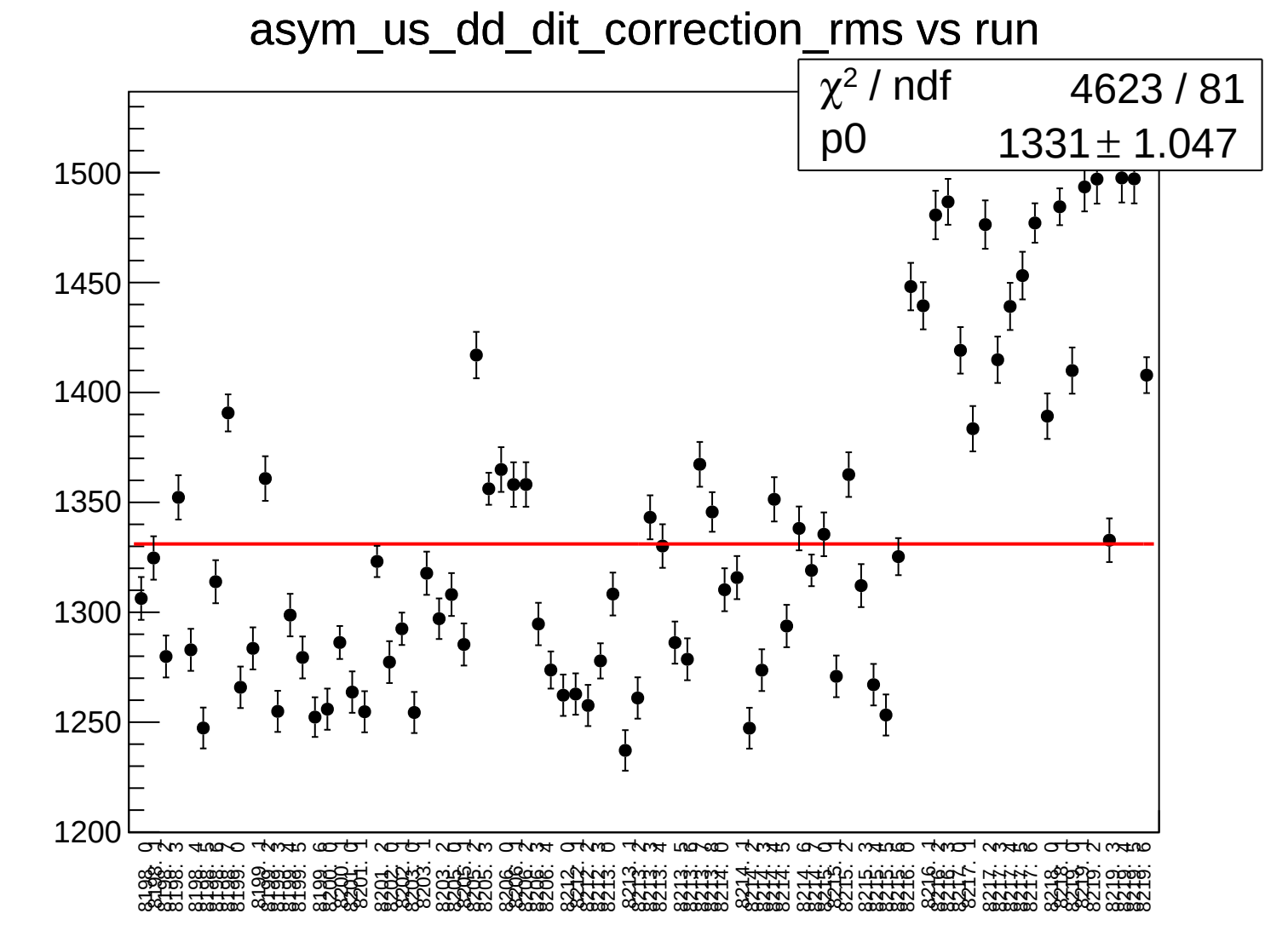

dit_asym_us_dd_mean vs run
χ² / ndf 70.04 / 81
p0 290.9 ± 845.4
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −526.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

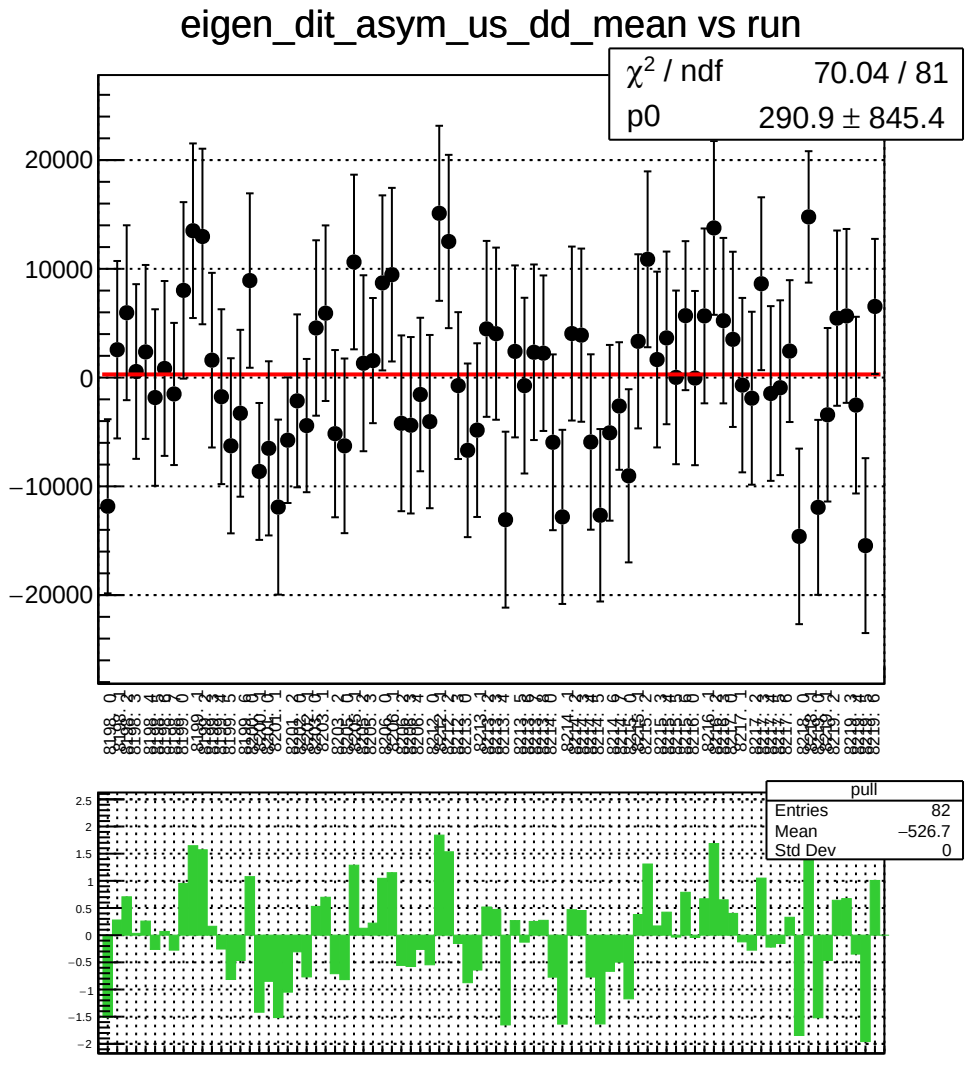

pull1D
Entries 82
Mean −0.0006959
Std Dev 0.9242
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

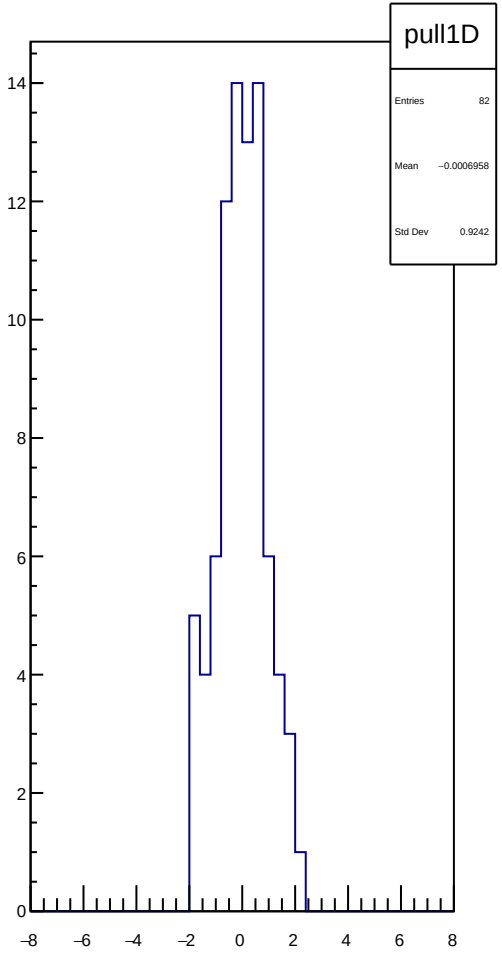

dit_asym_us_dd_rms vs run
χ² / ndf 63.83 / 81
p0 761.1 ± 0.5978
780
775
770
765
760
755
750
745

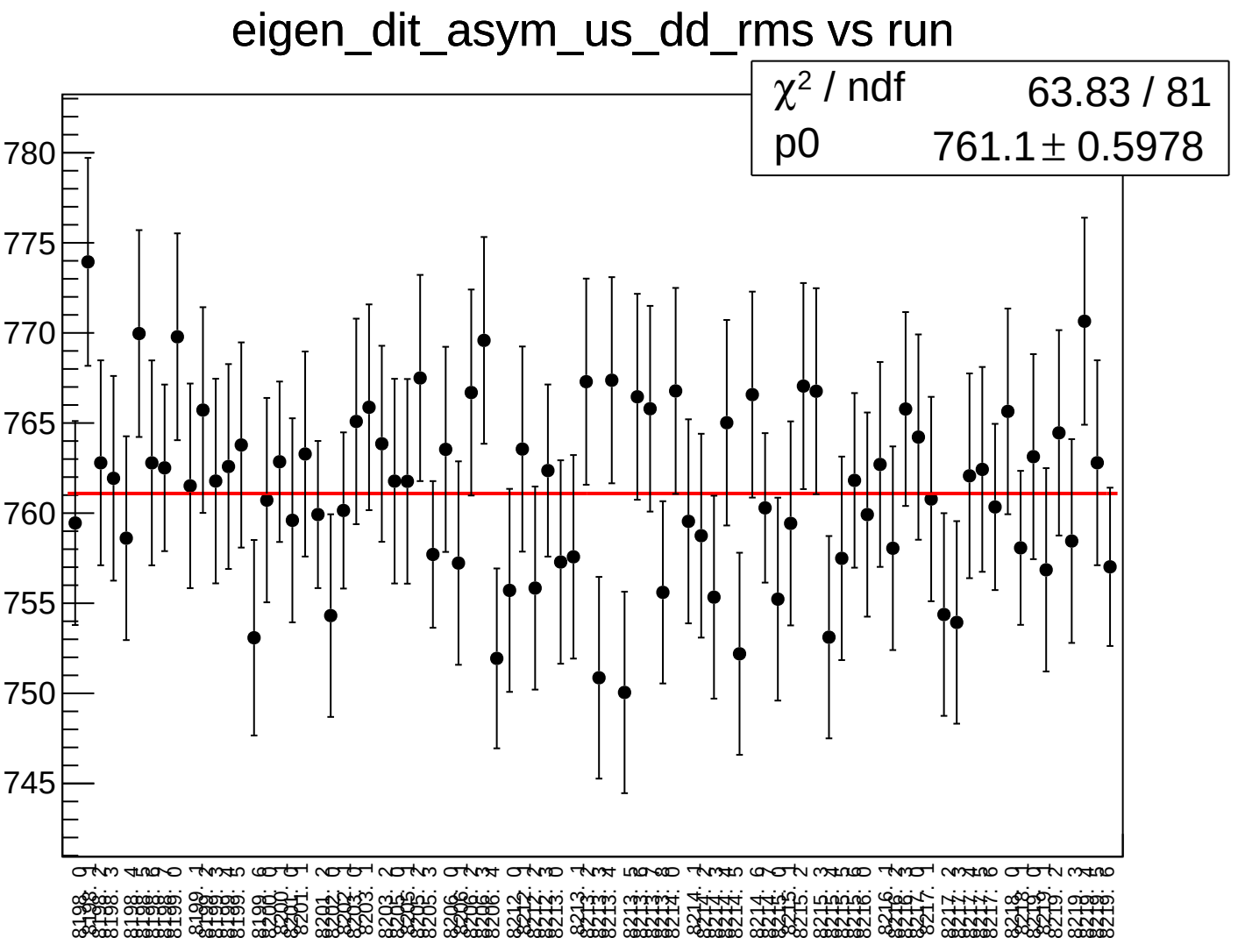

asym_us_dd_dit_correction_mean vs run
χ² / ndf 90.72 / 81
p0 −1353 ± 1481
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −567.1
Std Dev 0
3
2
1
0
−1
−2
−3

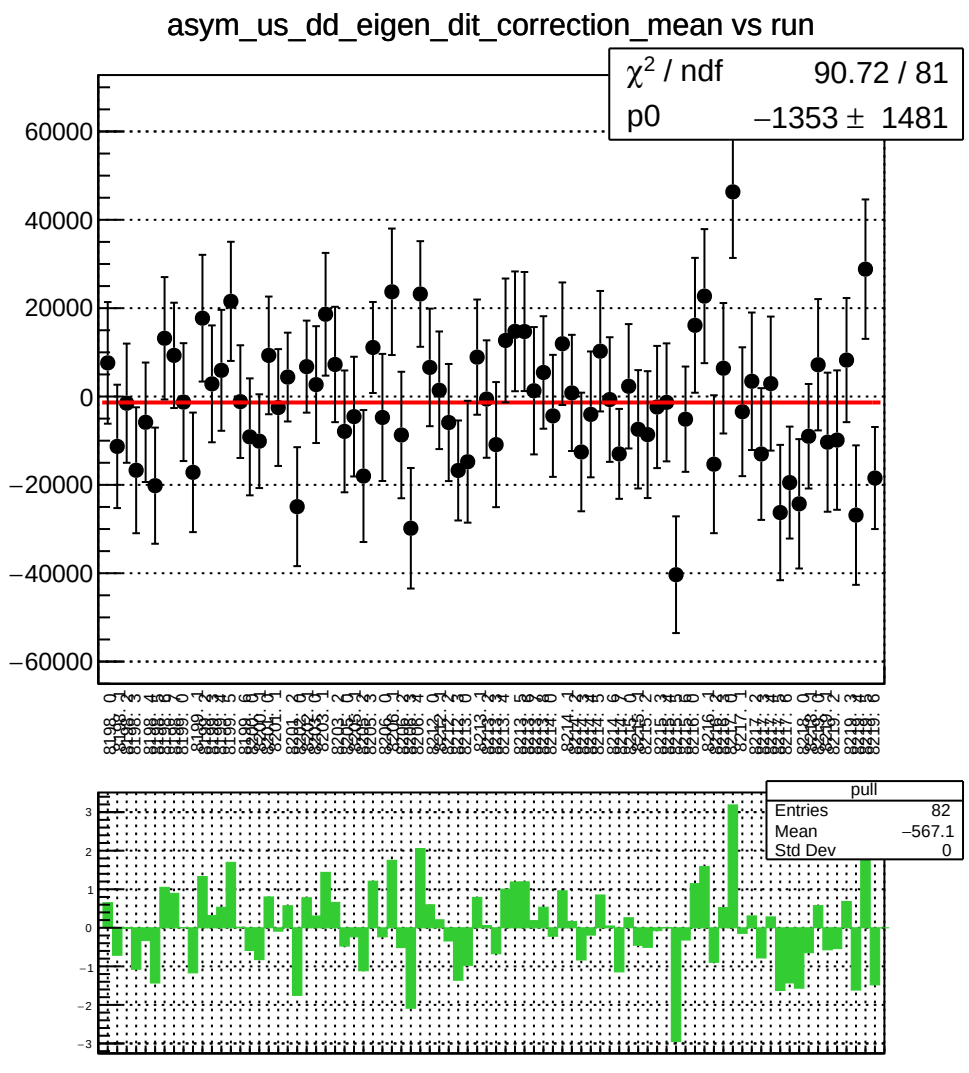

pull1D
Entries 82
Mean 0.004077
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

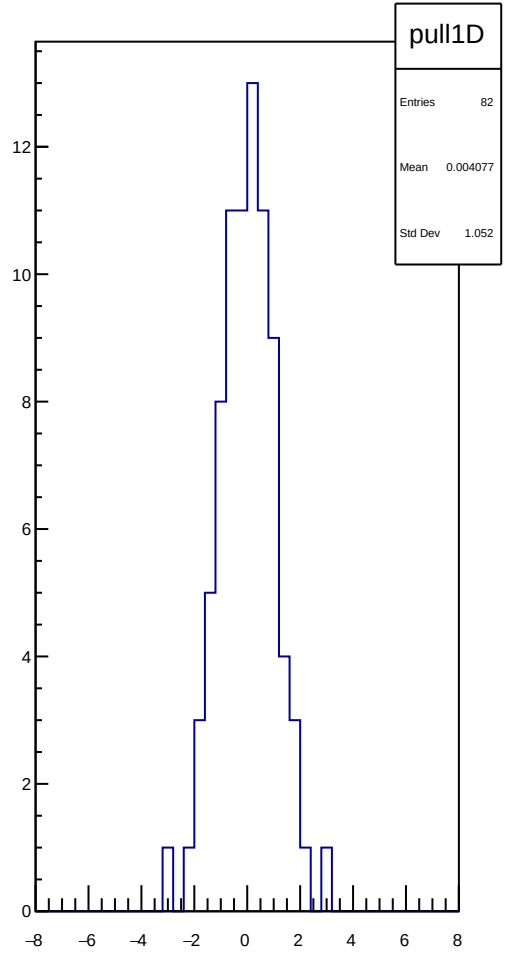

asym_us_dd_dit_correction_rms vs run
χ² / ndf 4623 / 81
p0 1331 ± 1.047
1500
1450
1400
1350
1300
1250
1200

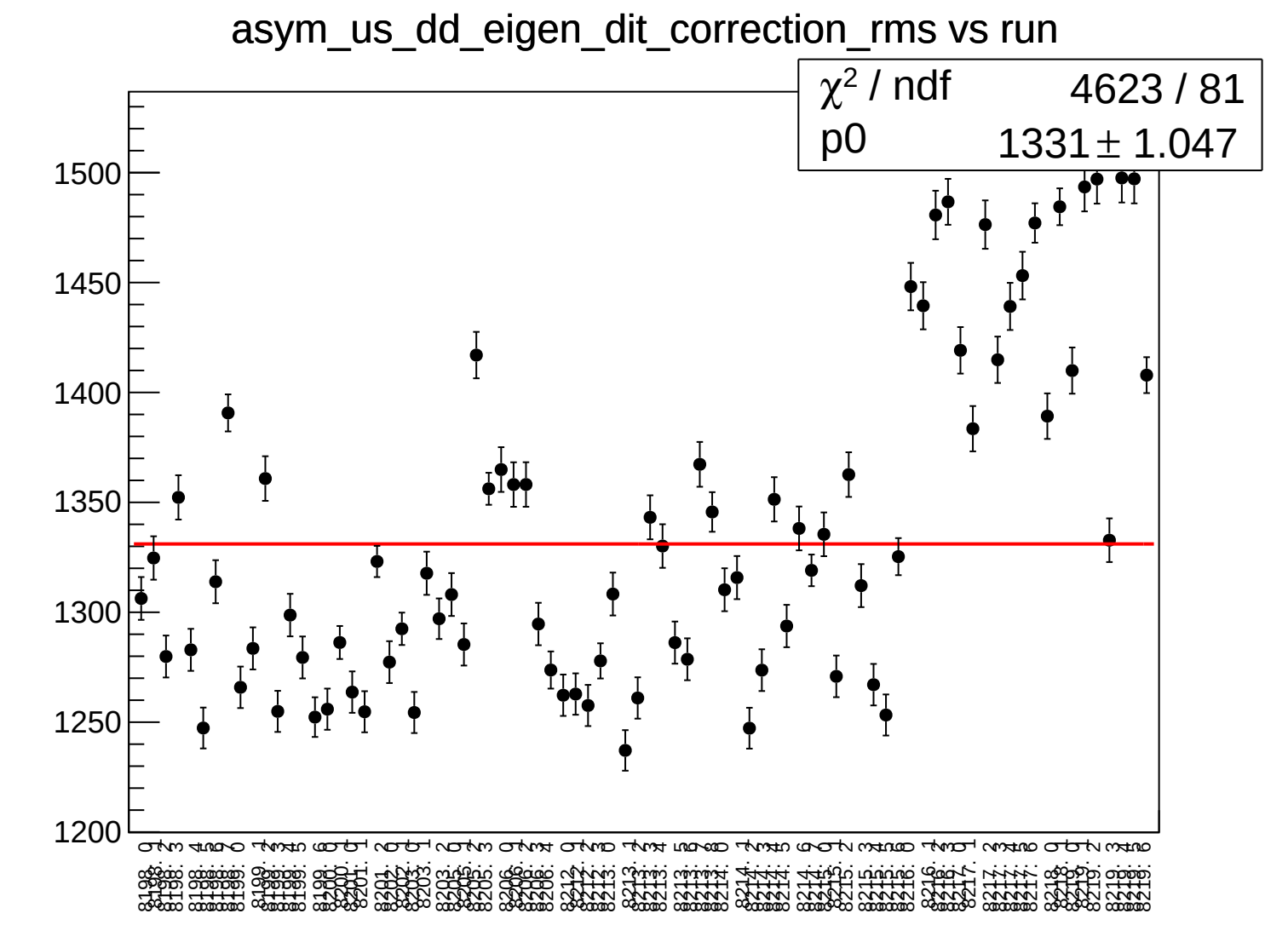

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 70.04 / 81
p0 290.9 ± 845.4
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −526.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

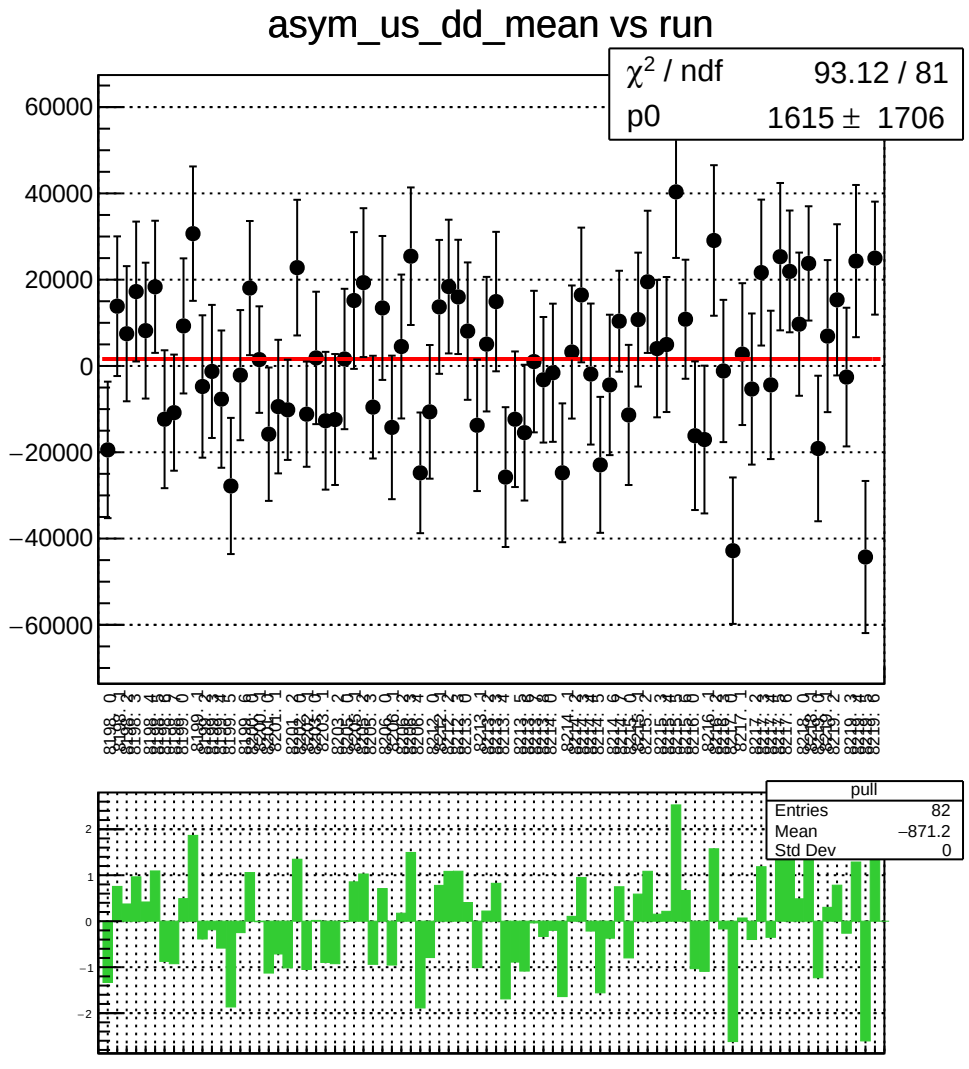

pull1D
Entries 82
Mean −0.0006958
Std Dev 0.9242
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

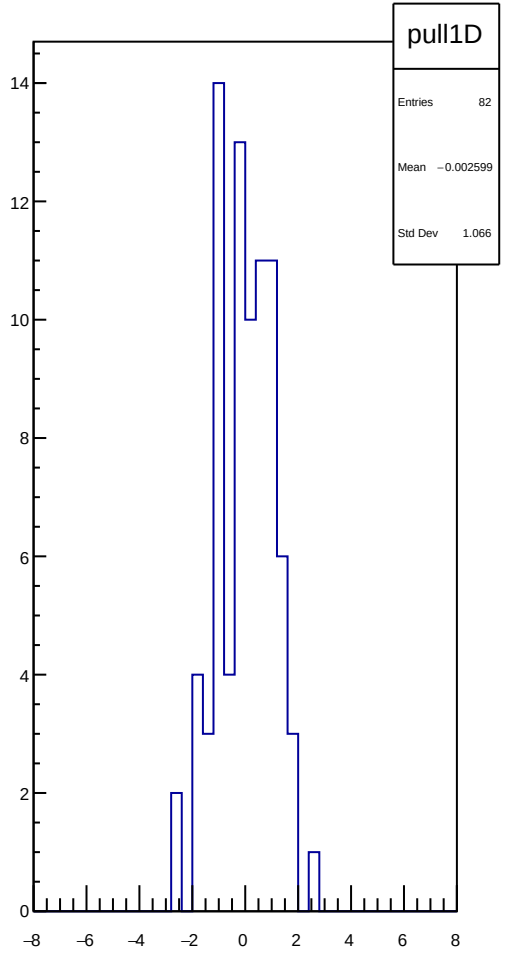

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 63.83 / 81
p0 761.1 ± 0.5978
780
775
770
765
760
755
750
745

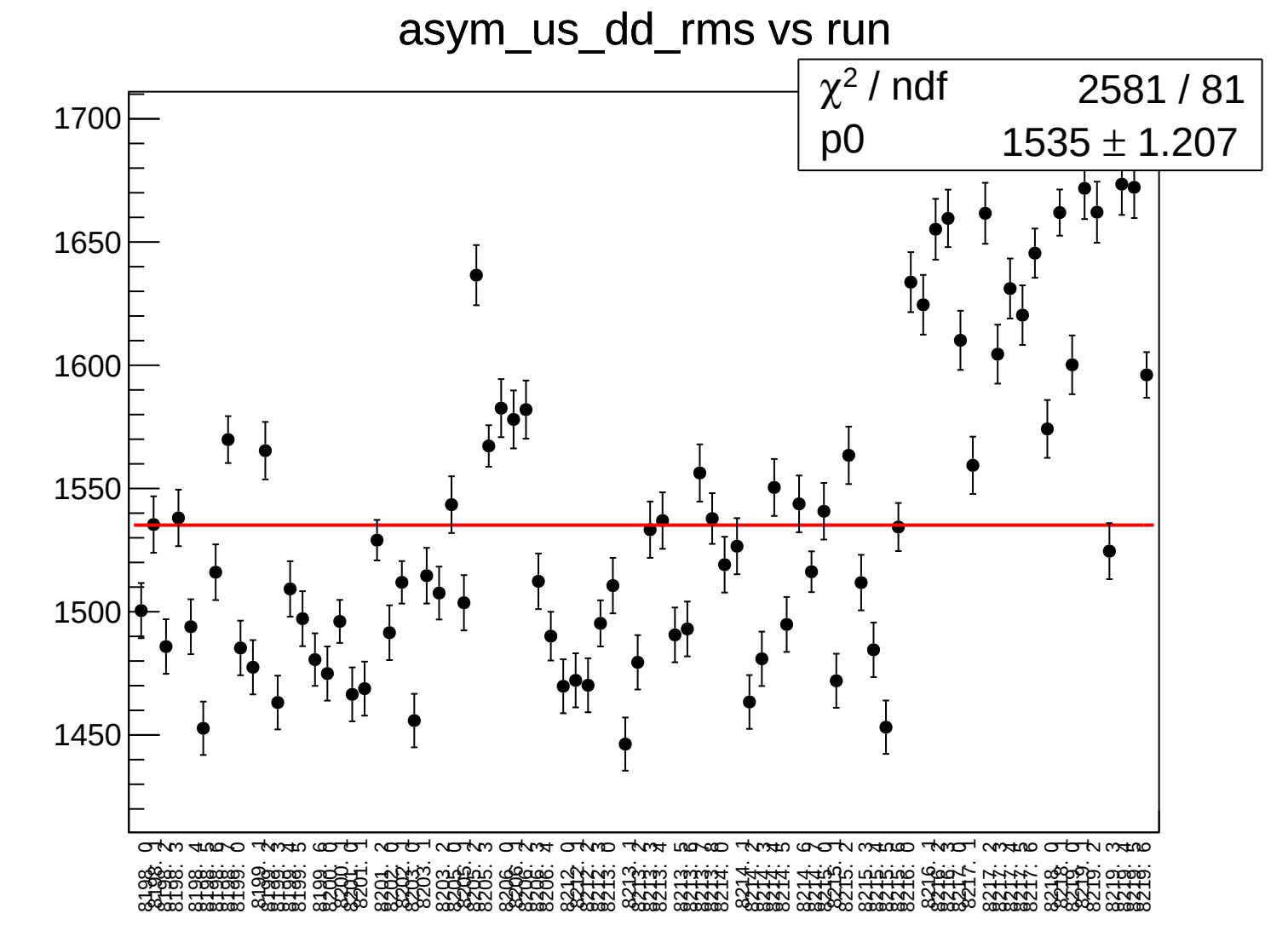

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.72 / 81
p0 −1353 ± 1481
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −567.1
Std Dev 0
3
2
1
0
−1
−2
−3

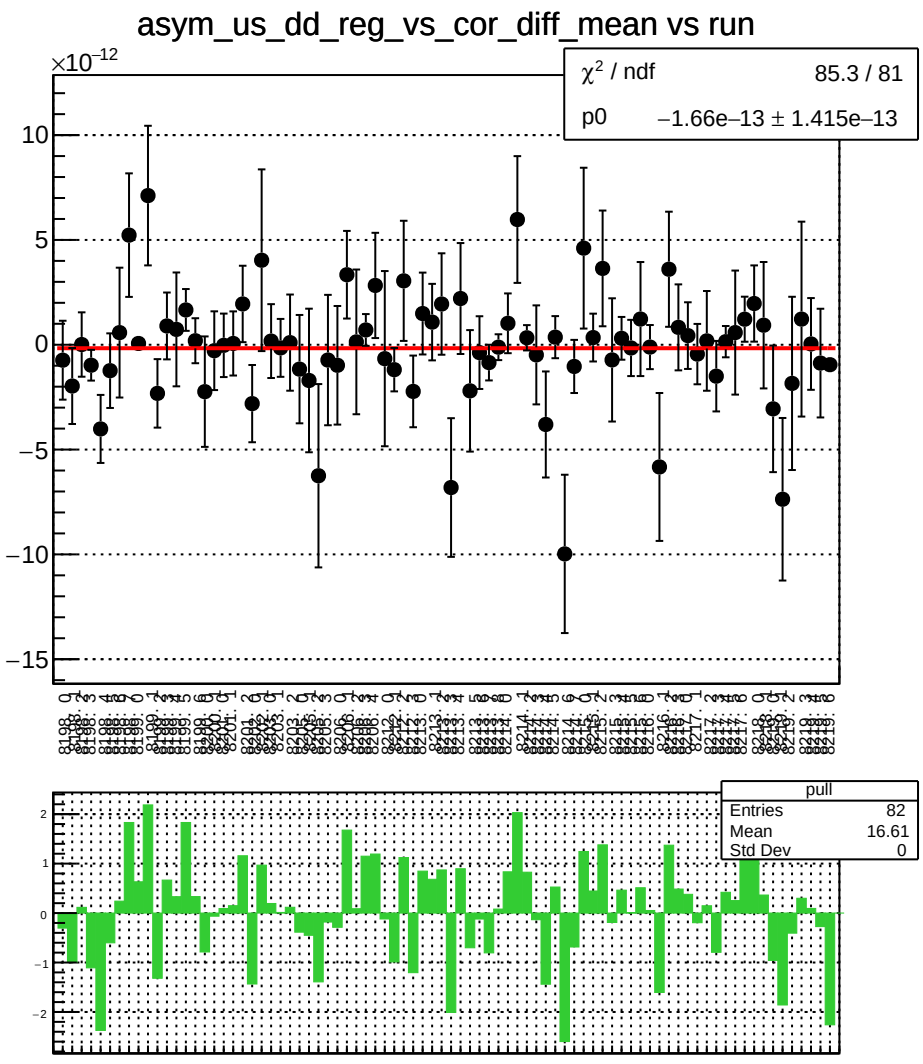

pull1D
Entries 82
Mean 0.004077
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

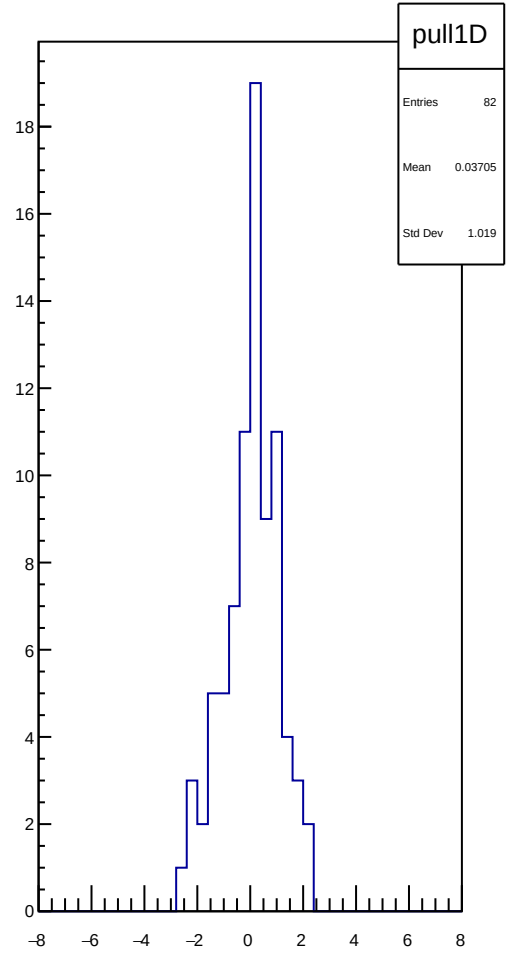

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 4623 / 81
p0 1331 ± 1.047
1500
1450
1400
1350
1300
1250
1200

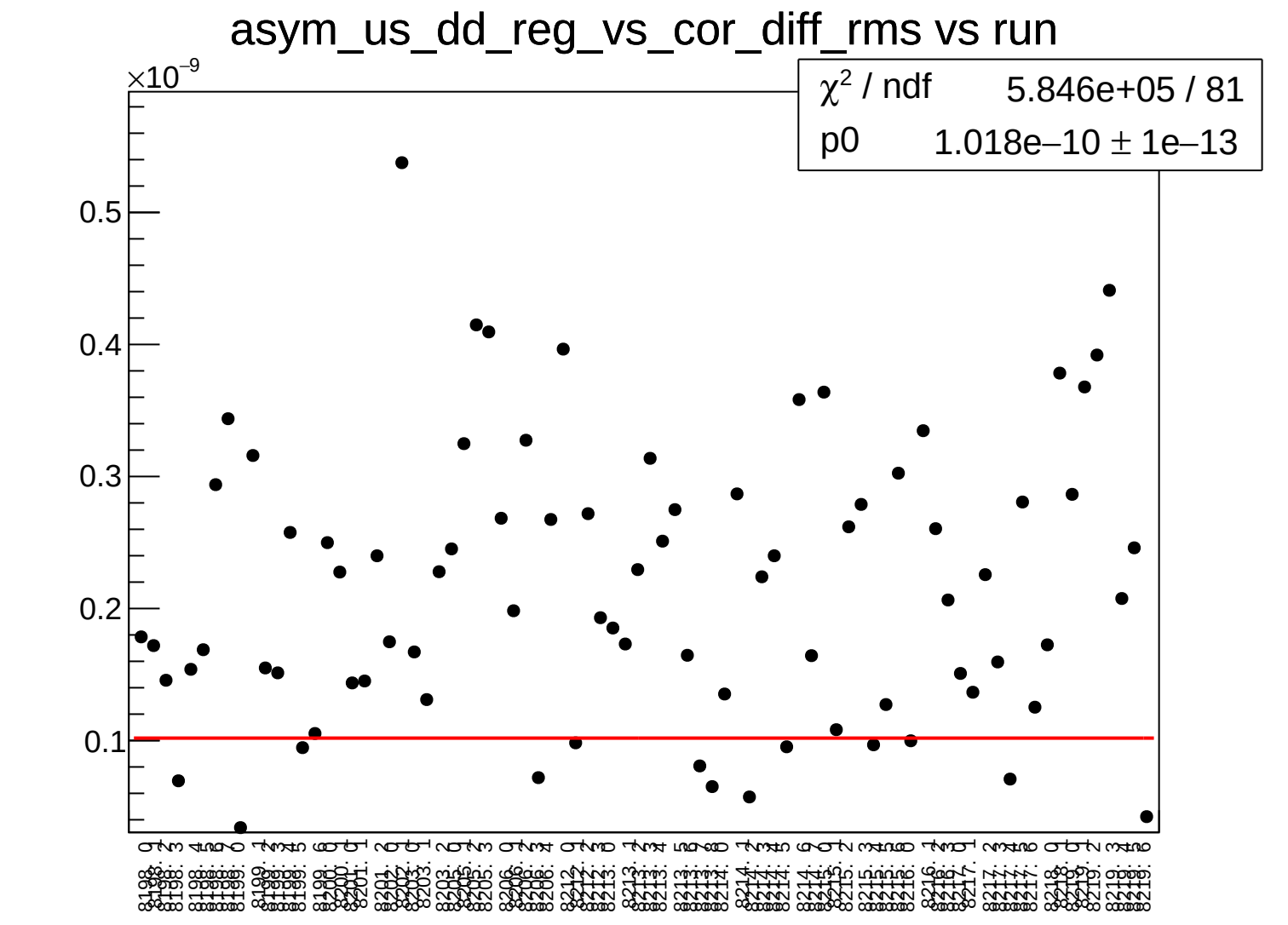

asym_us_dd_mean vs run
χ² / ndf 93.12 / 81
p0 1615 ± 1706
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −871.2
Std Dev 0
2
1
0
−1
−2

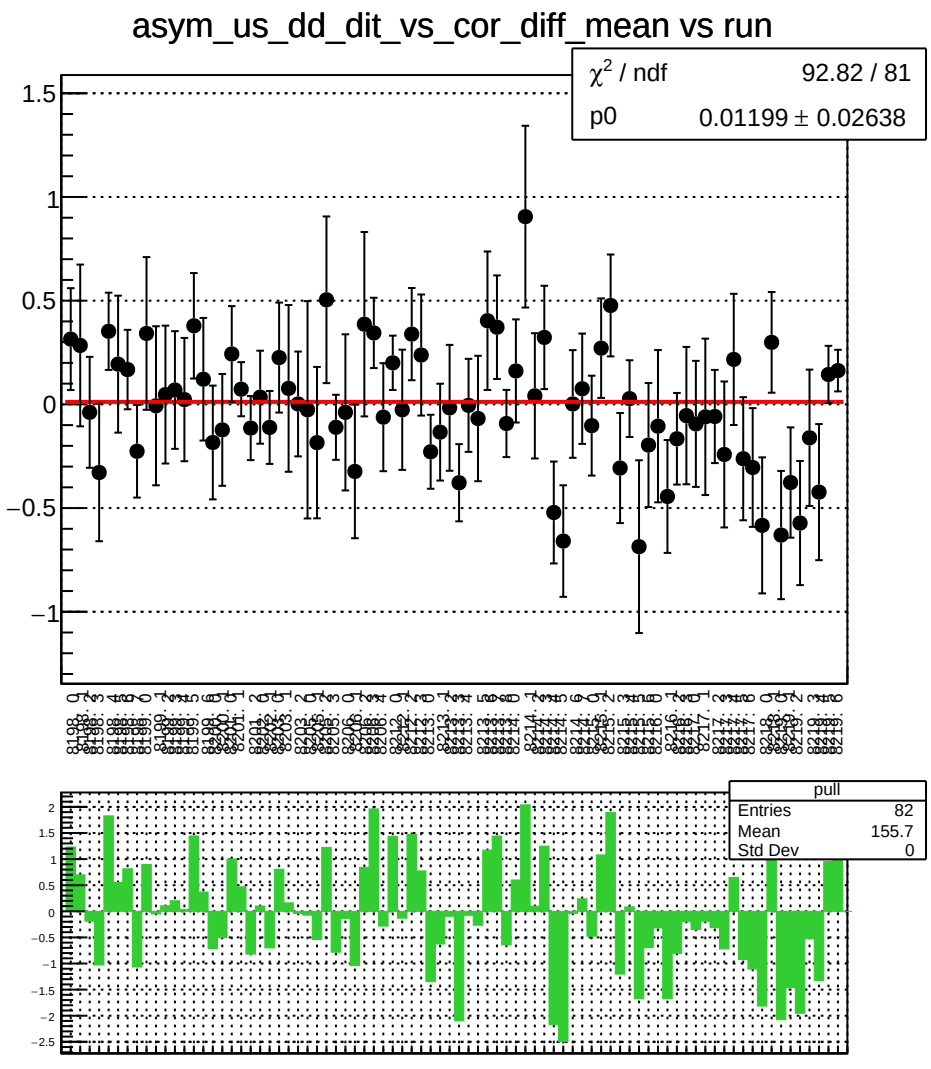

pull1D
Entries 82
Mean −0.002599
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

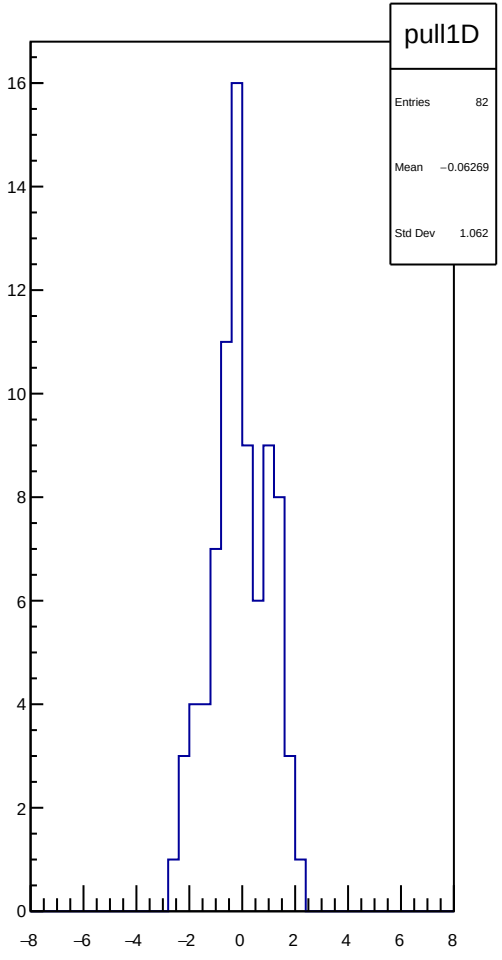

asym_us_dd_rms vs run
χ² / ndf 2581 / 81
p0 1535 ± 1.207
1700
1650
1600
1550
1500
1450

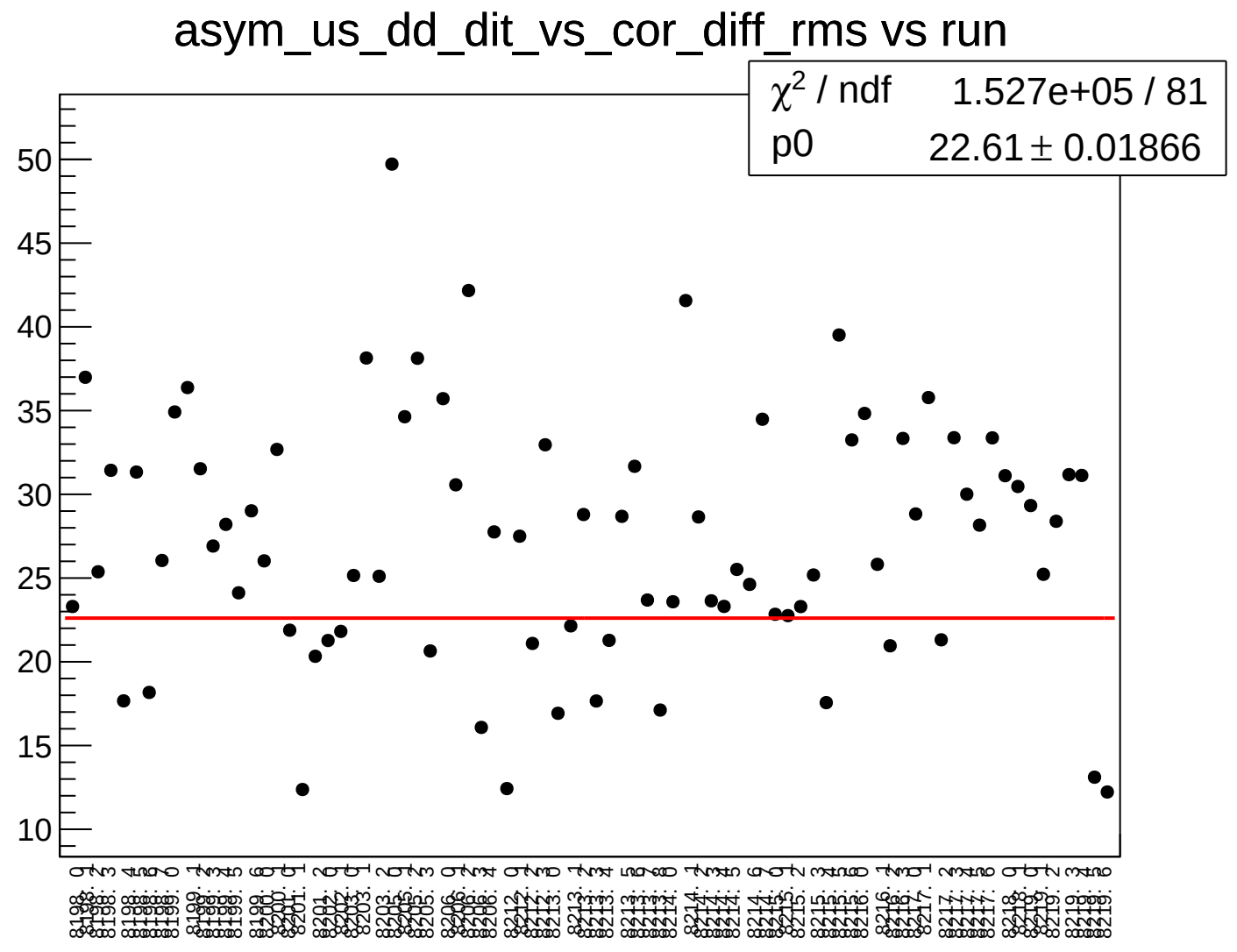

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.3 / 81
p0 −1.66e−13 ± 1.415e−13
pull
Entries 82
Mean 16.61
Std Dev 0

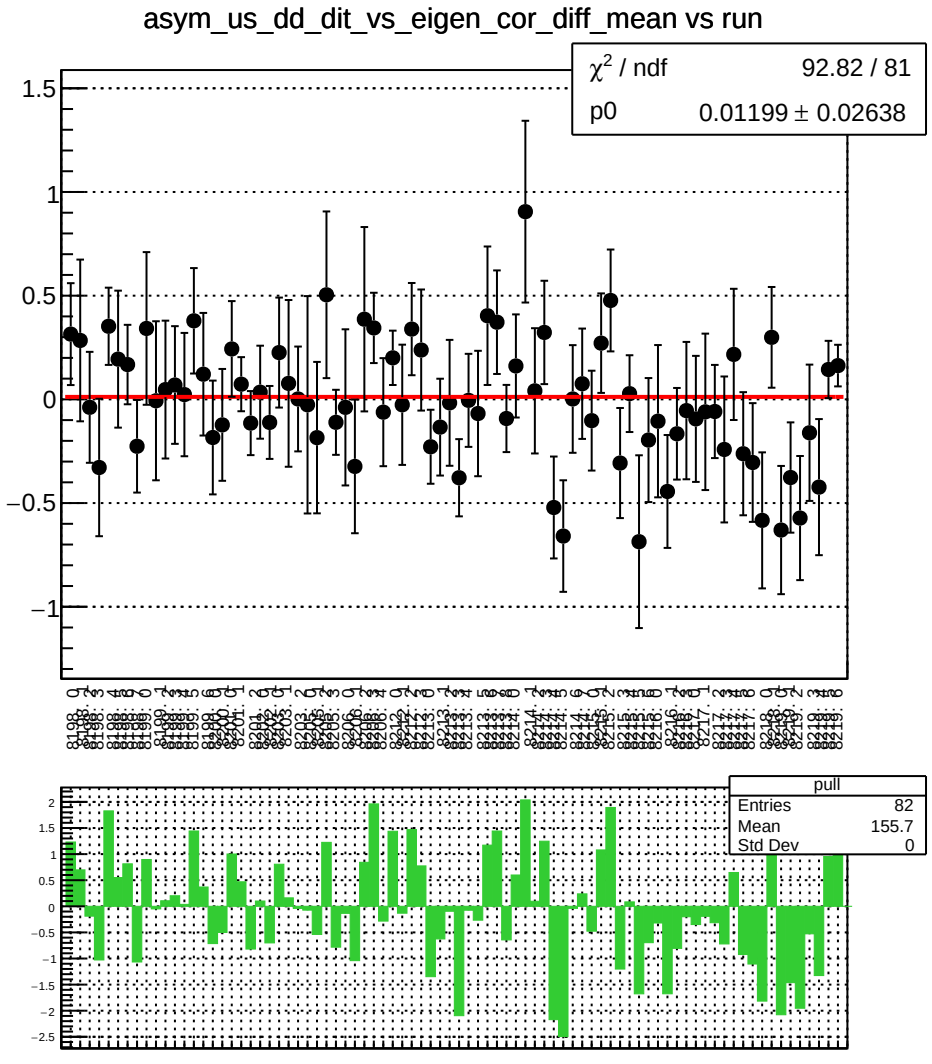

pull1D
Entries 82
Mean 0.03705
Std Dev 1.019

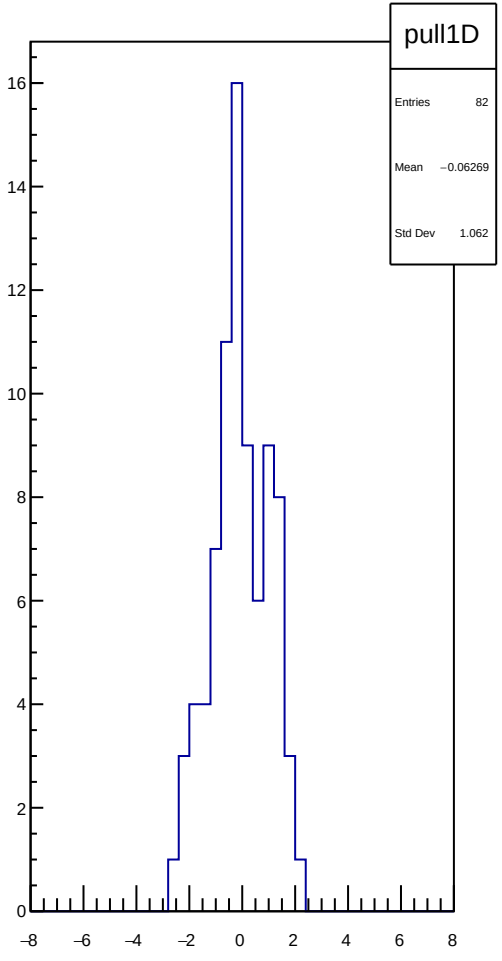

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.846e+05 / 81
p0 1.018e−10 ± 1e−13
0.5
0.4
0.3
0.2
0.1

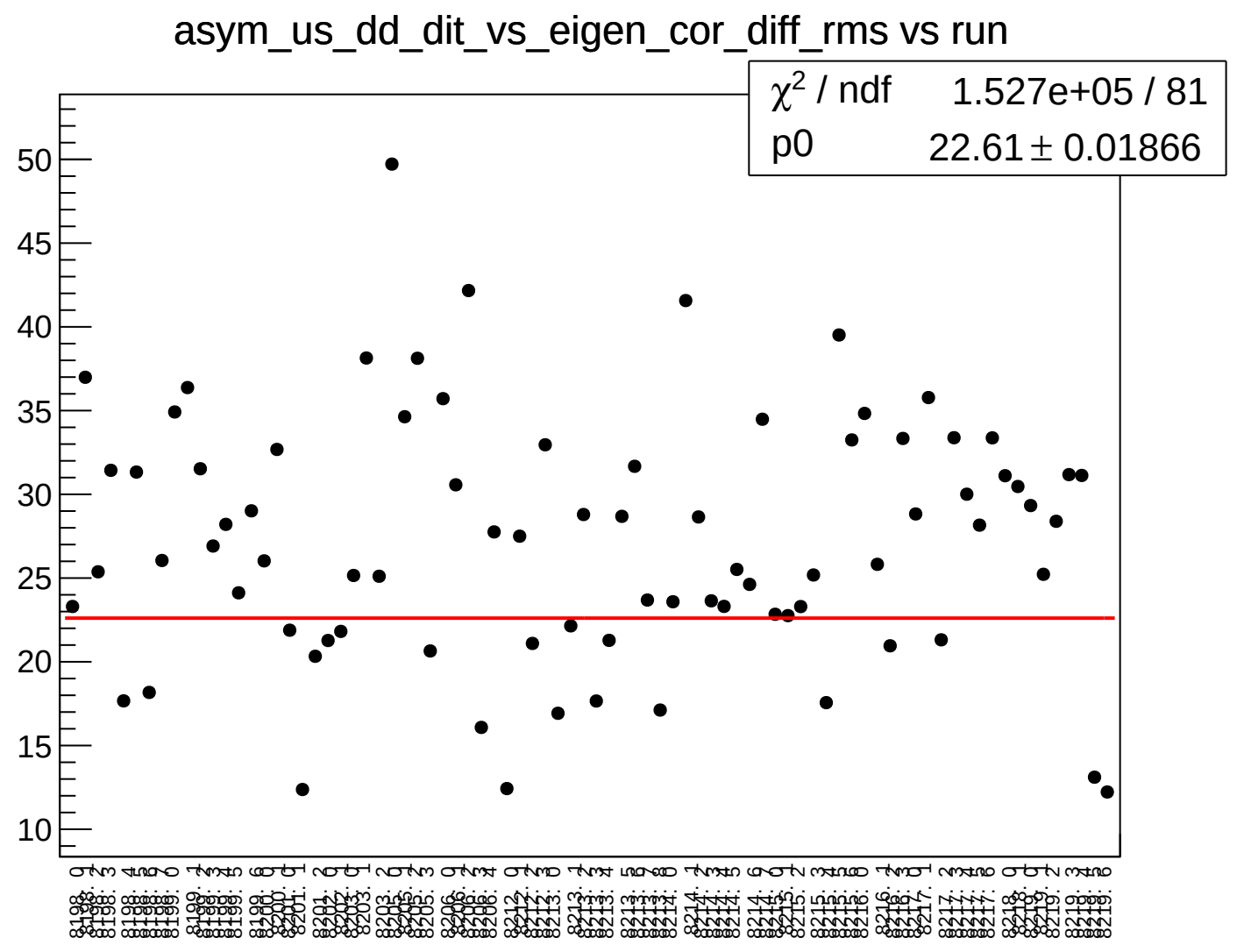

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.82 / 81
p0 0.01199 ± 0.02638
pull
Entries 82
Mean 155.7
Std Dev 0

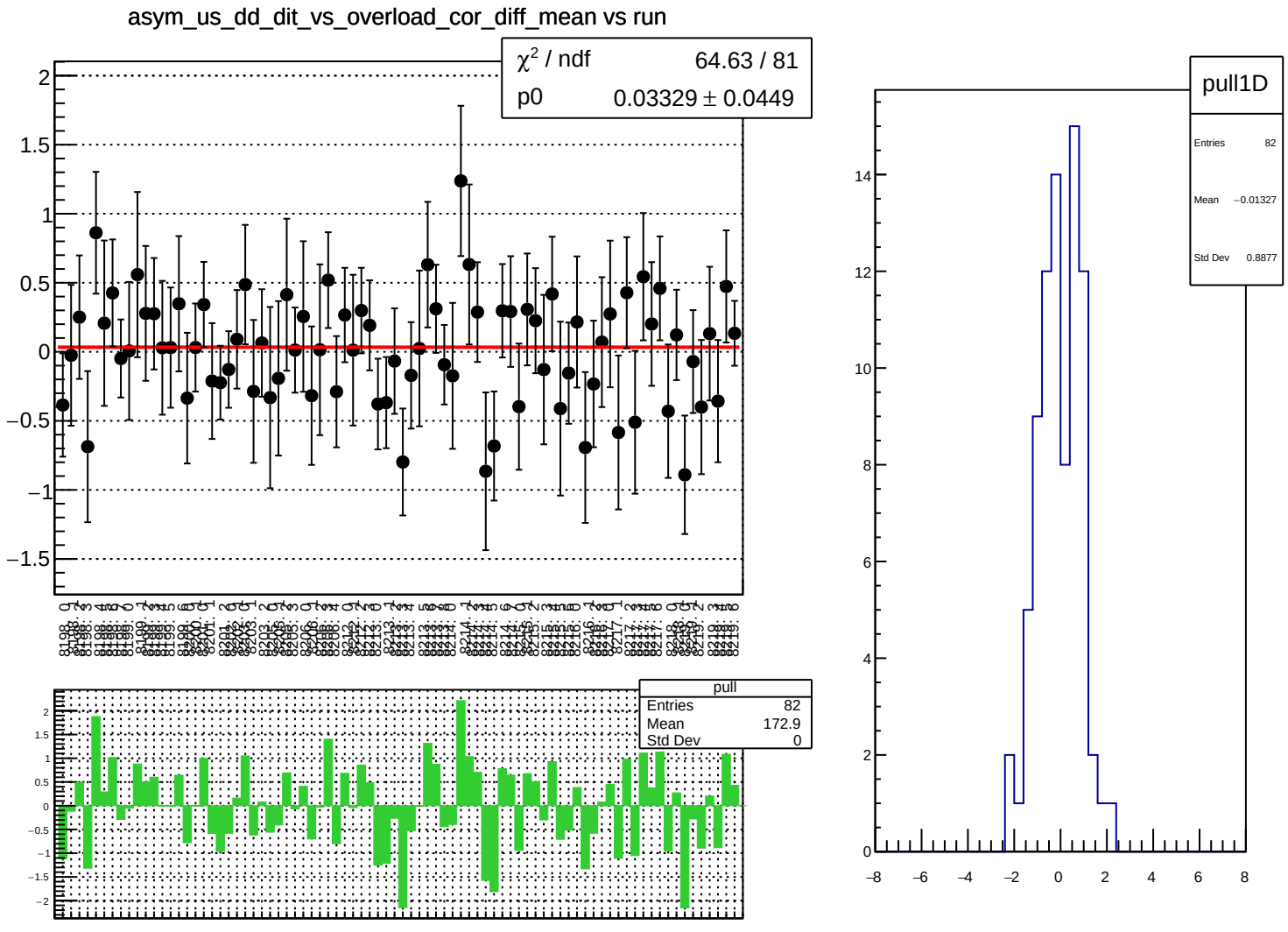

pull1D
Entries 82
Mean −0.06269
Std Dev 1.062

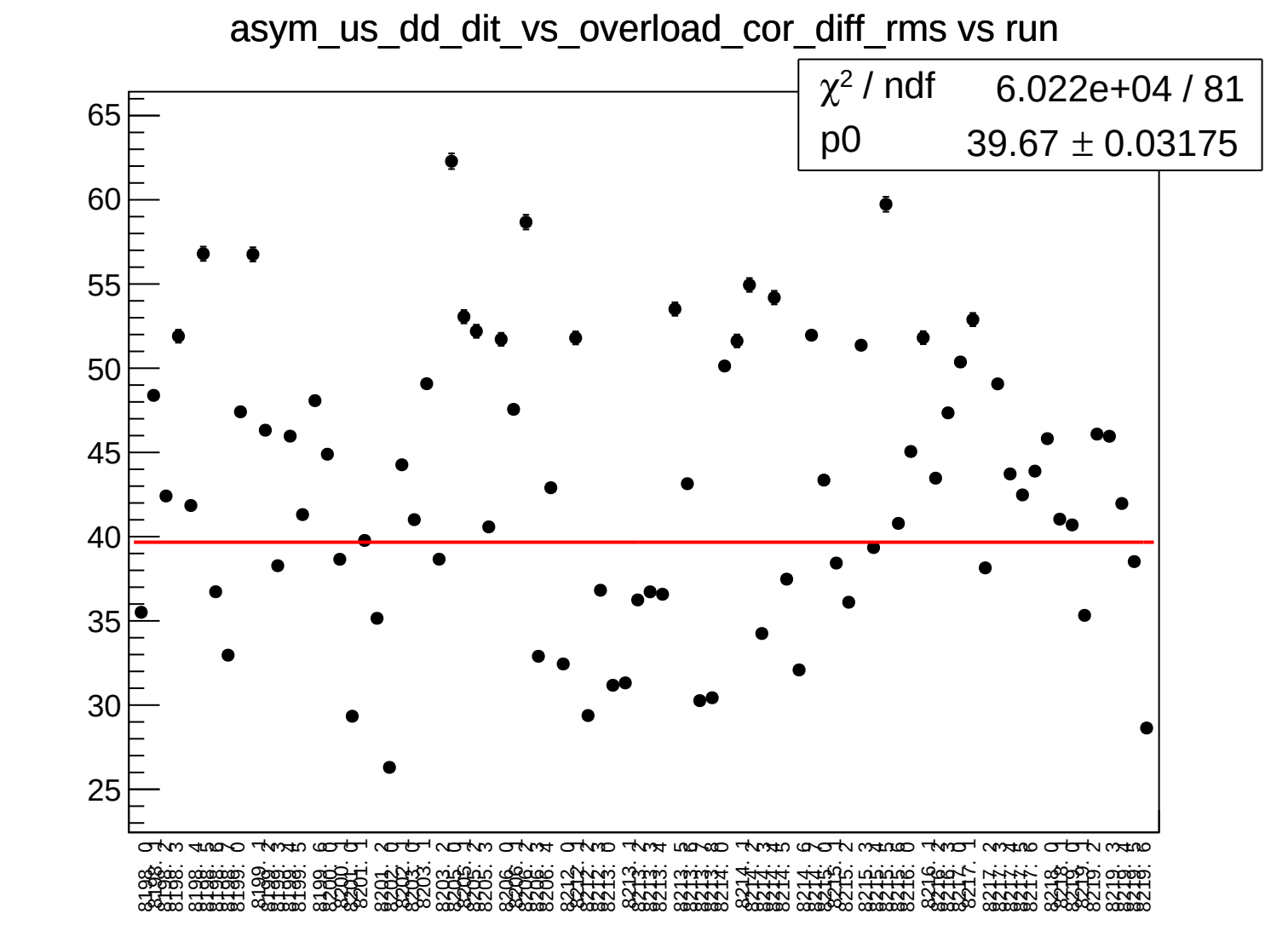

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.527e+05 / 81
p0 22.61 ± 0.01866
50
45
40
35
30
25
20
15
10

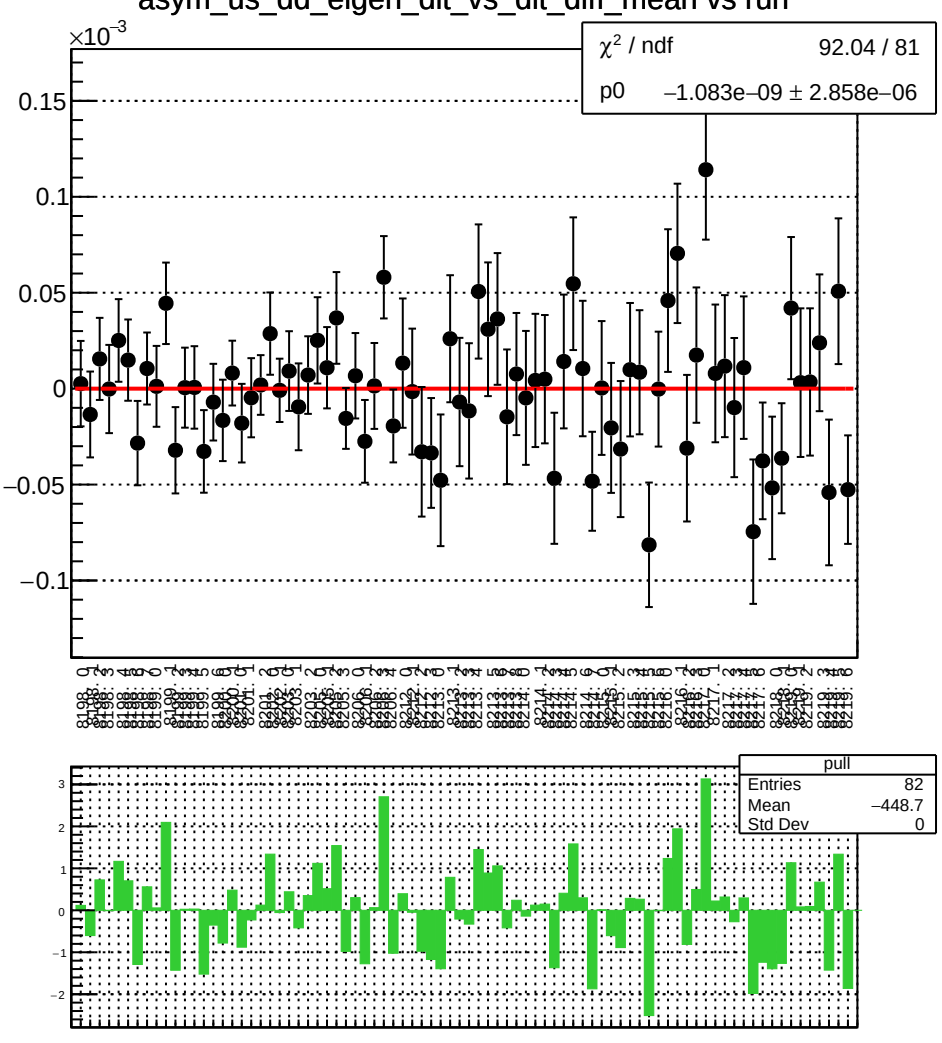

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.82 / 81
p0 0.01199 ± 0.02638
pull
Entries 82
Mean 155.7
Std Dev 0

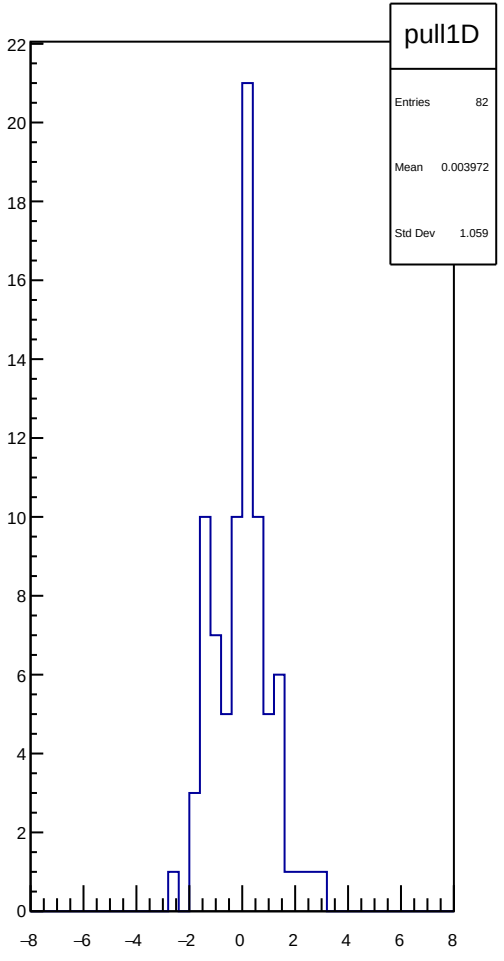

pull1D
Entries 82
Mean −0.06269
Std Dev 1.062

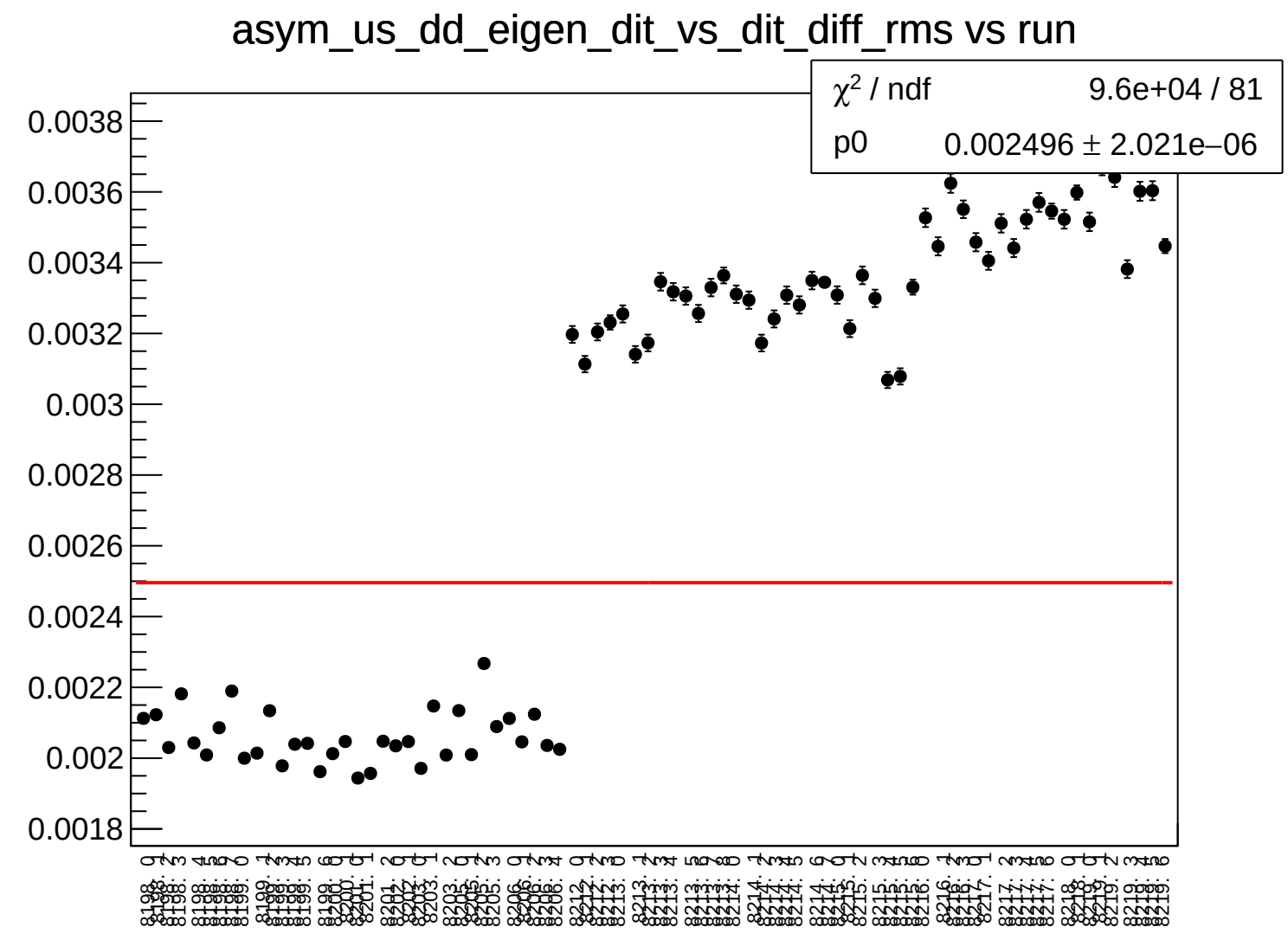

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.527e+05 / 81
p0 22.61 ± 0.01866
50
45
40
35
30
25
20
15
10

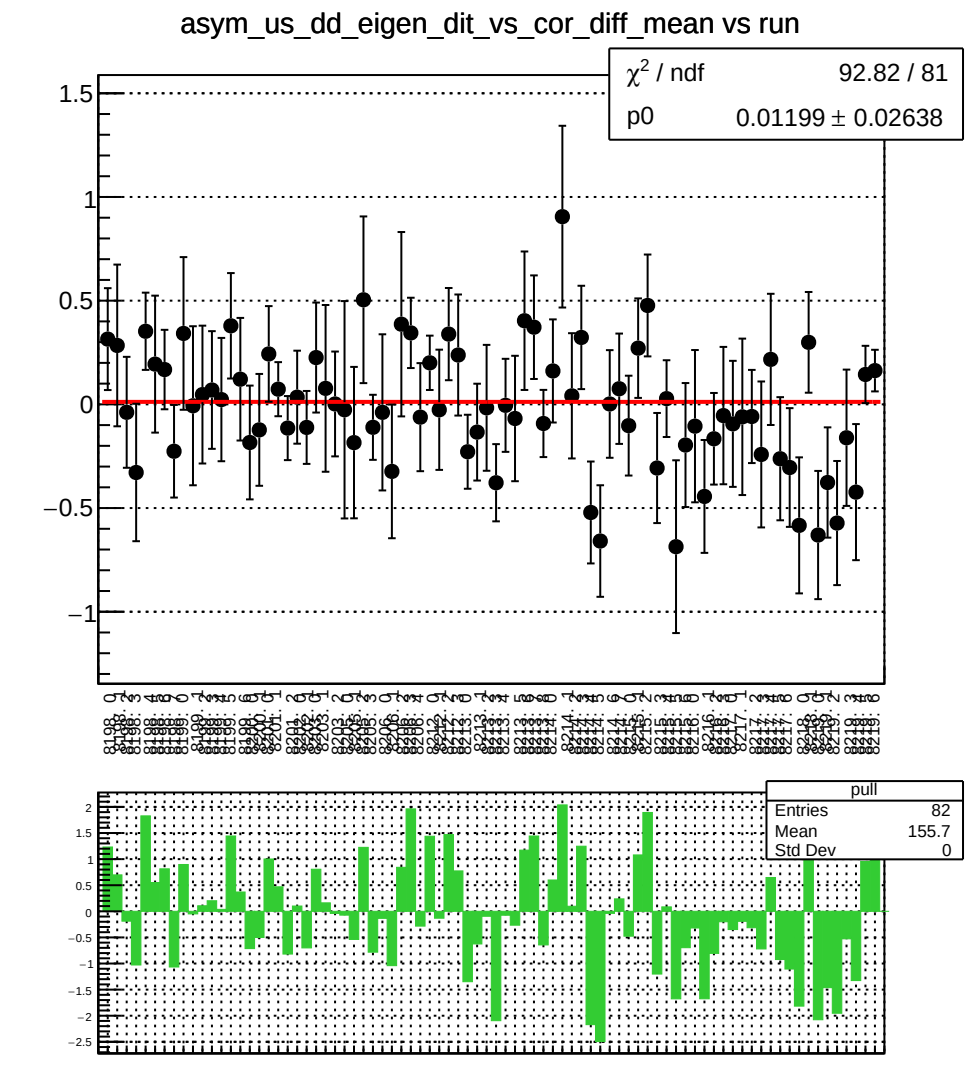

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 64.63 / 81
p0 0.03329 ± 0.0449
pull
Entries 82
Mean 172.9
Std Dev 0
pull1D
Entries 82
Mean −0.01327
Std Dev 0.8877

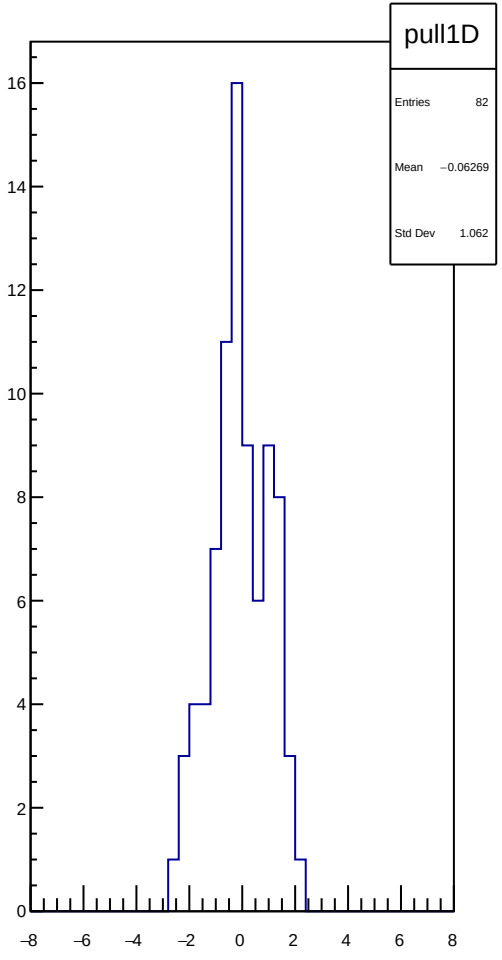

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.022e+04 / 81
p0 39.67 ± 0.03175
65
60
55
50
45
40
35
30
25

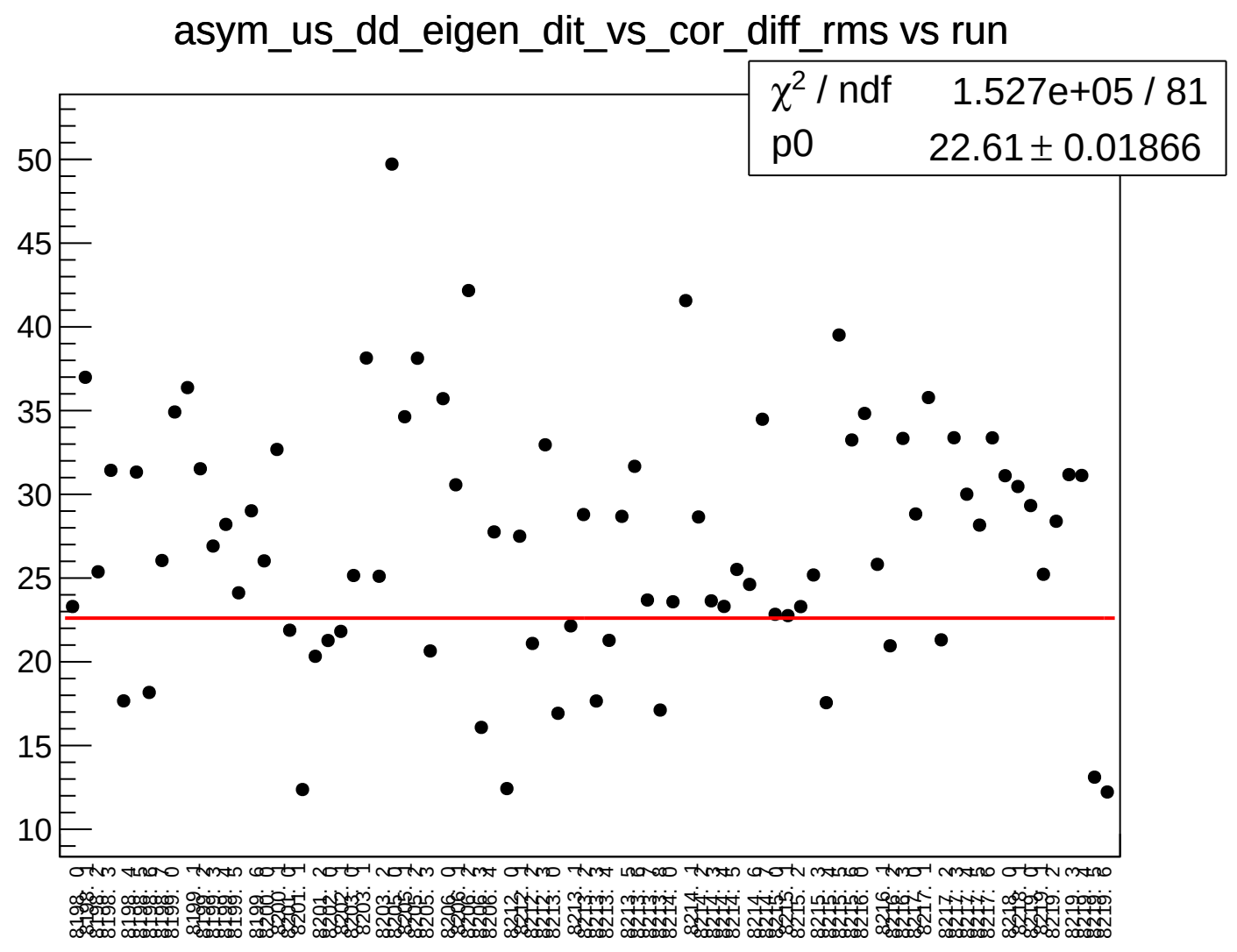

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.04 / 81
p0 −1.083e−09 ± 2.858e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean −448.7
Std Dev 0
3
2
1
0
−1
−2

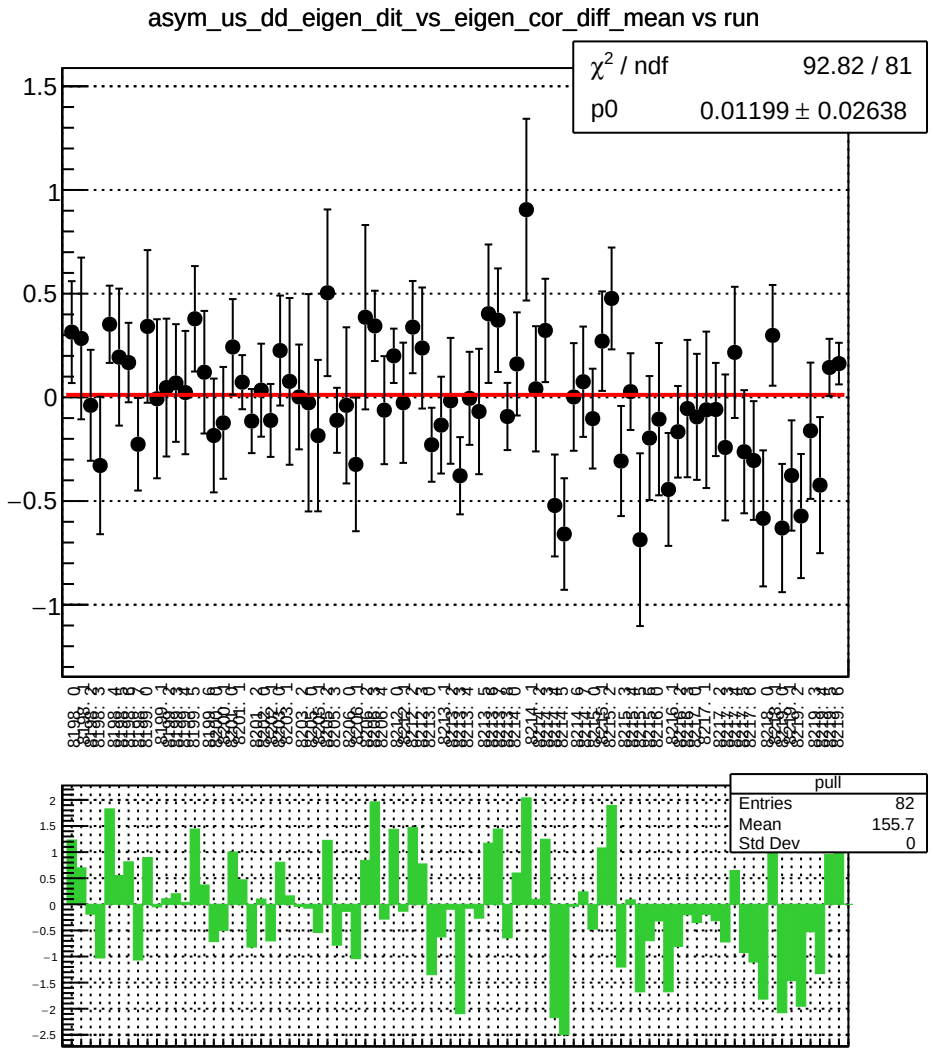

pull1D
Entries 82
Mean 0.003972
Std Dev 1.059
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

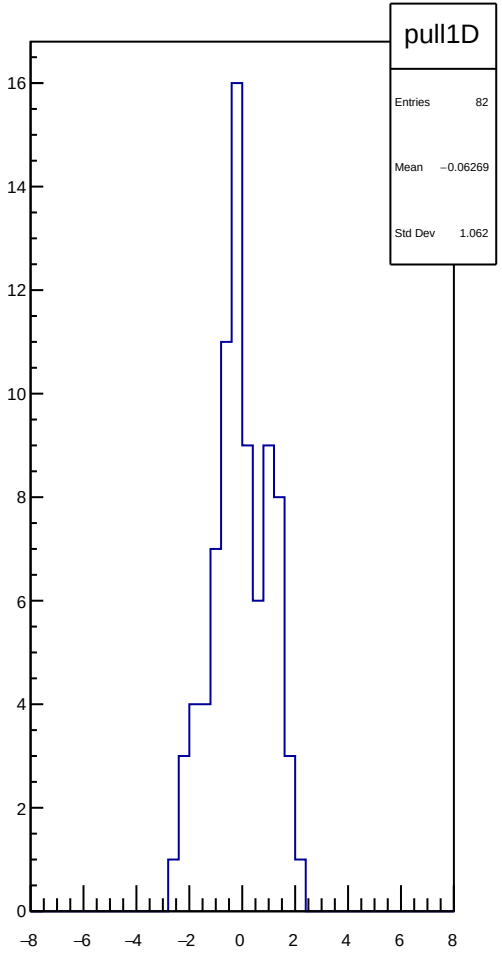

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.6e+04 / 81
p0 0.002496 ± 2.021e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

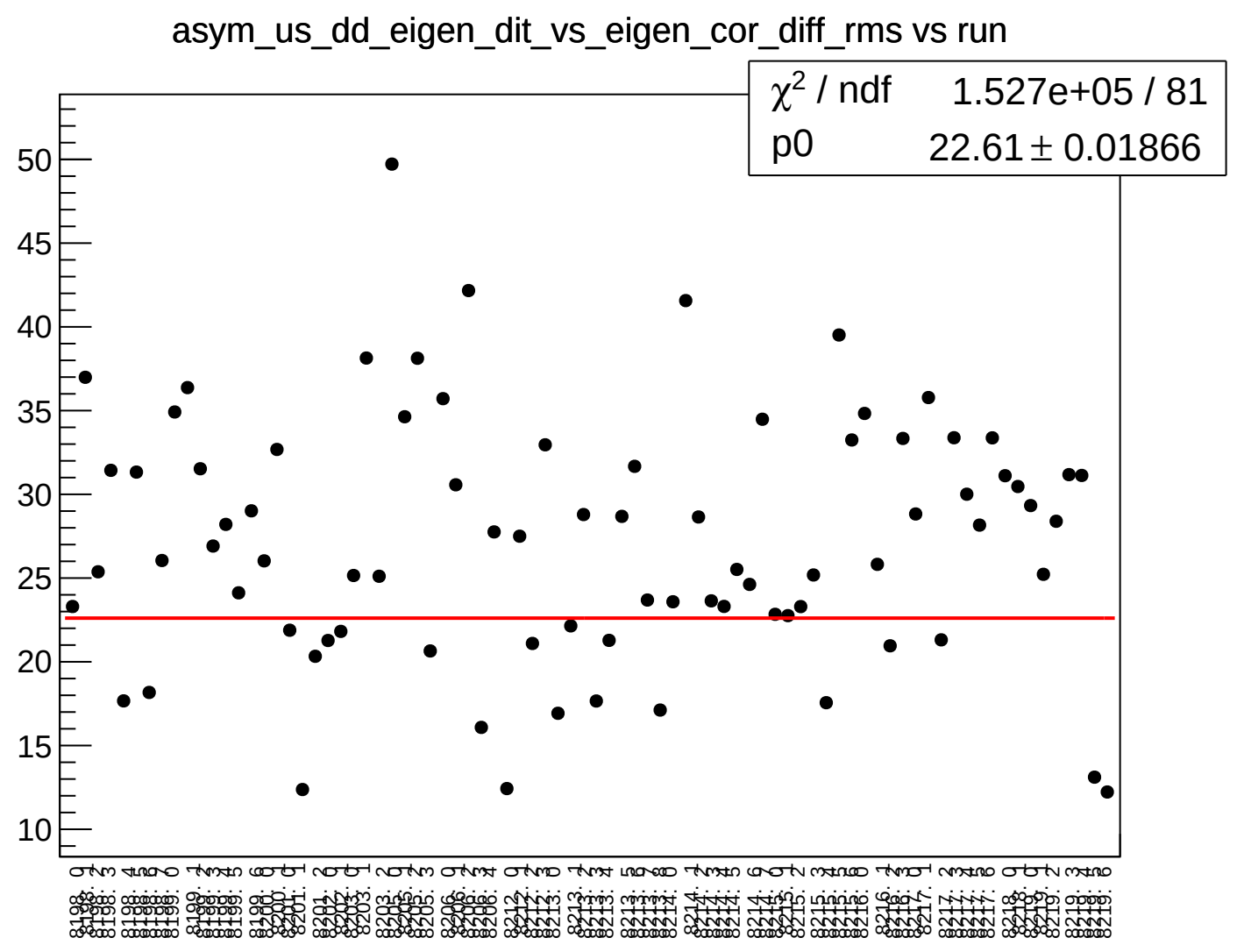

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.82 / 81
p0 0.01199 ± 0.02638
pull
Entries 82
Mean 155.7
Std Dev 0

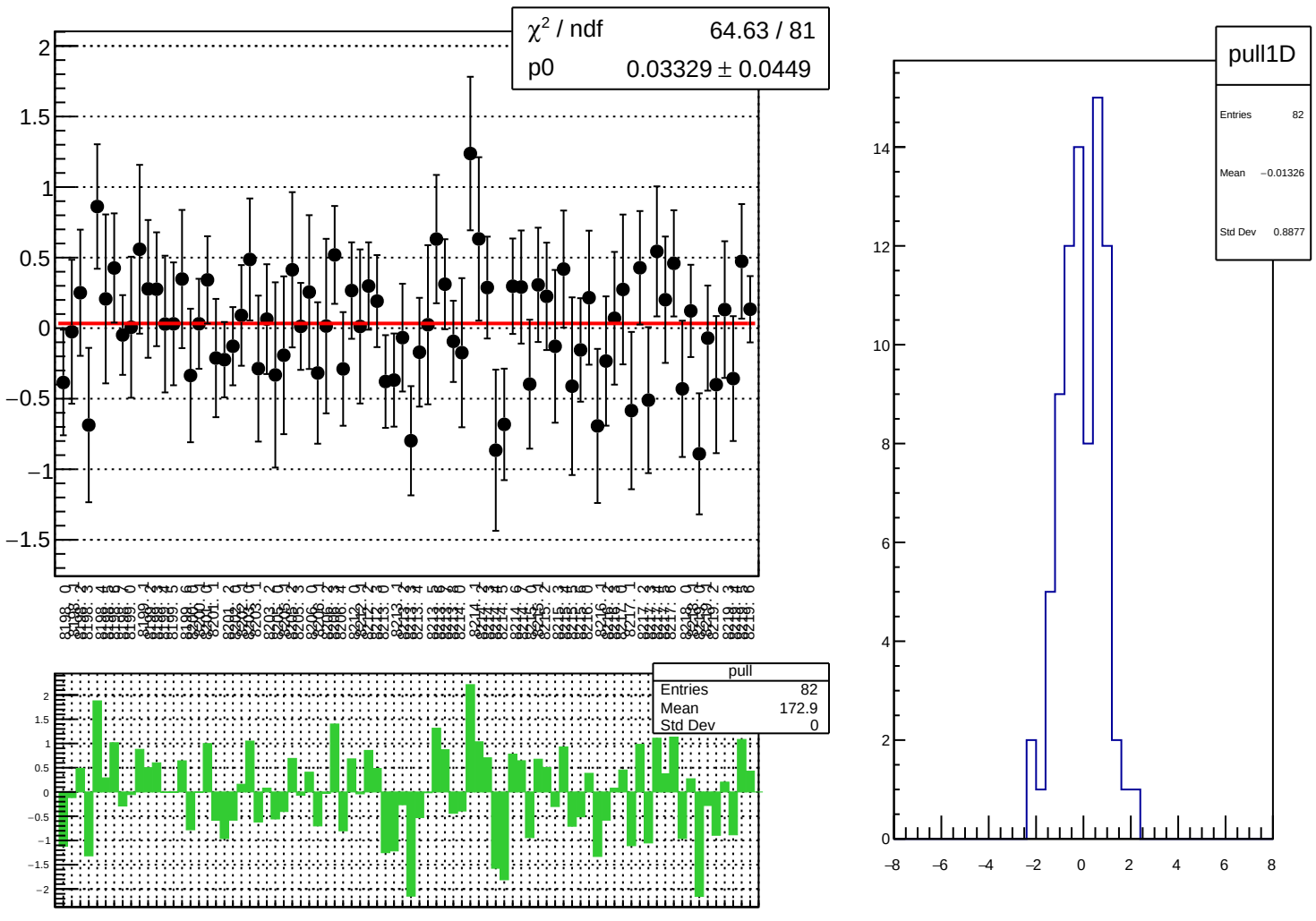

pull1D
Entries 82
Mean −0.06269
Std Dev 1.062

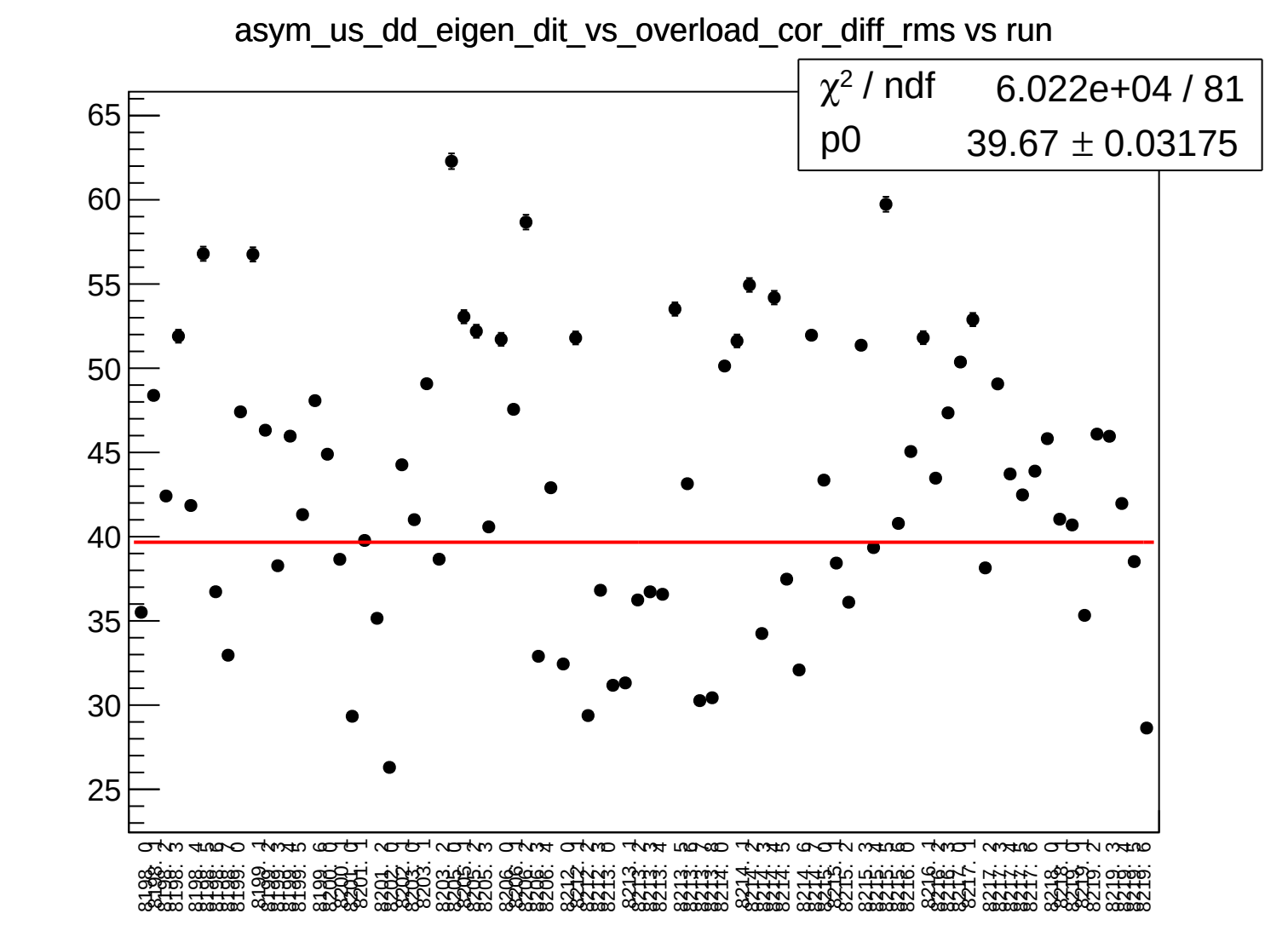

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.527e+05 / 81
p0 22.61 ± 0.01866
50
45
40
35
30
25
20
15
10

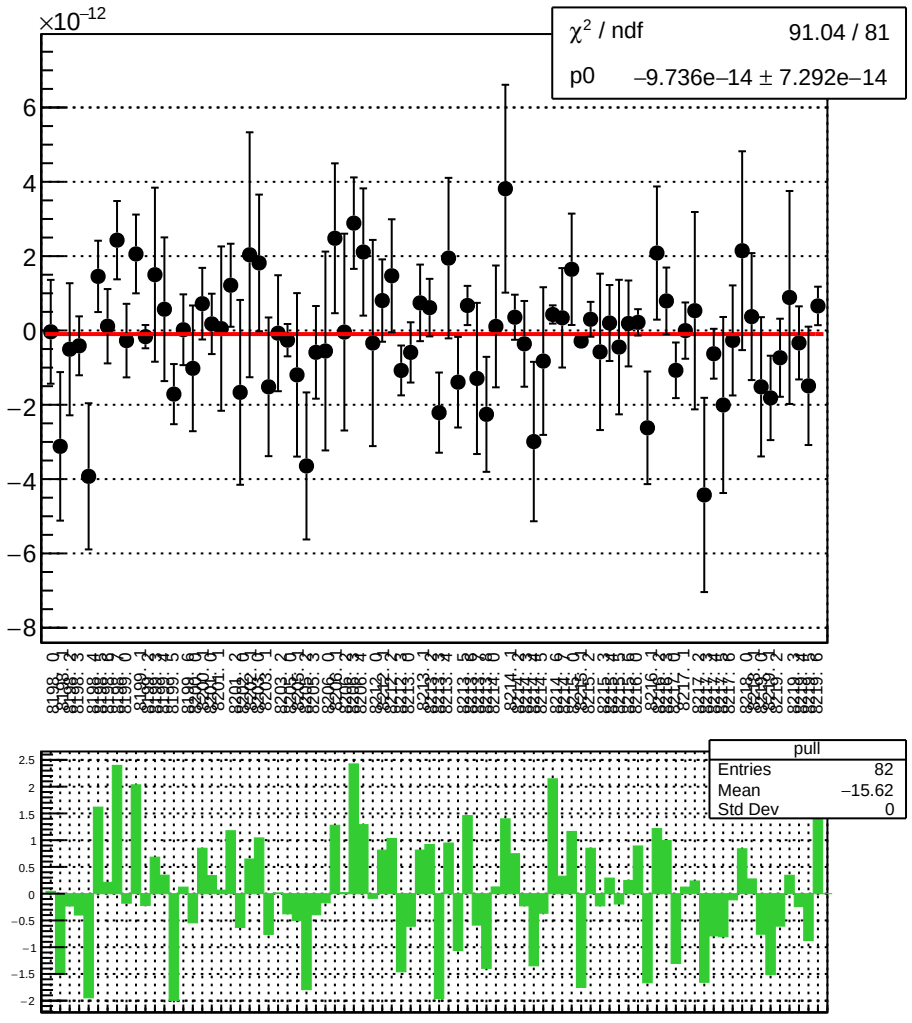

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.82 / 81
p0 0.01199 ± 0.02638
pull
Entries 82
Mean 155.7
Std Dev 0

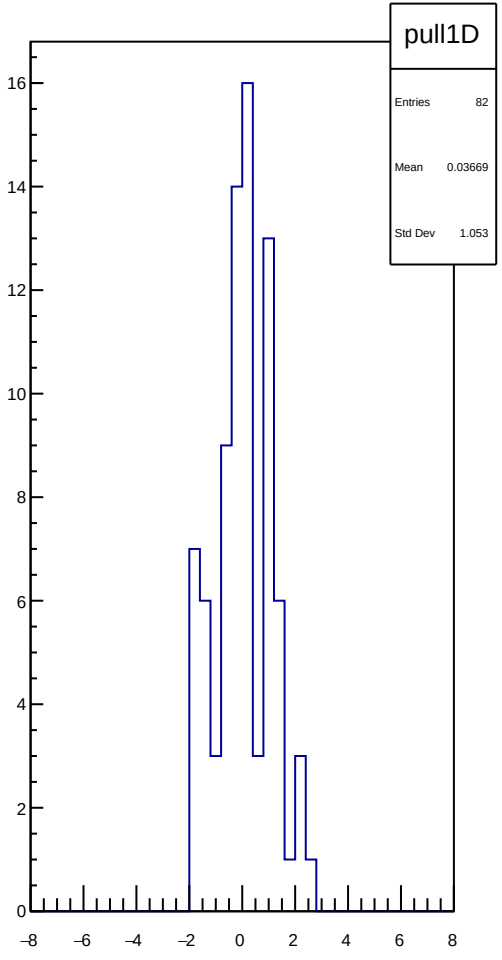

pull1D
Entries 82
Mean −0.06269
Std Dev 1.062

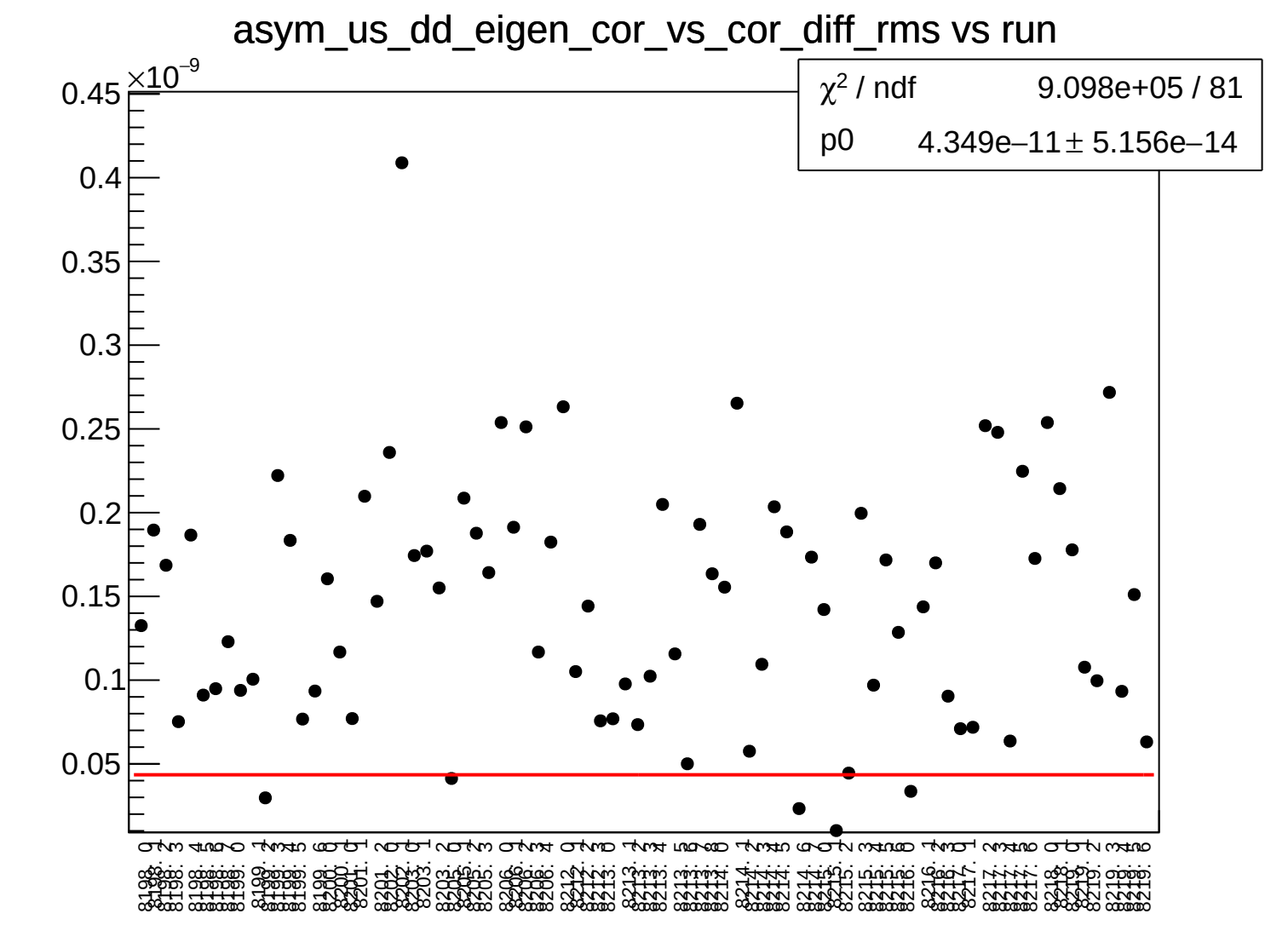

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.527e+05 / 81
p0 22.61 ± 0.01866
50
45
40
35
30
25
20
15
10

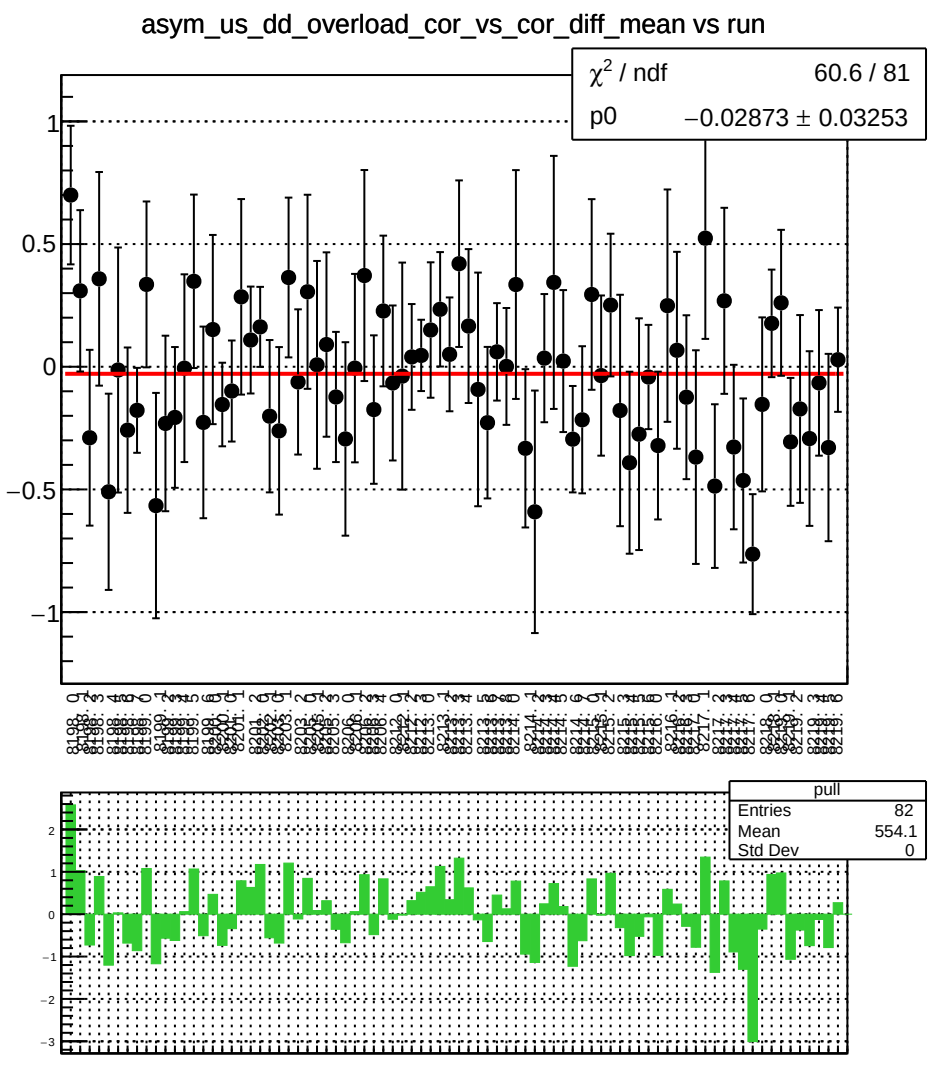

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 64.63 / 81
p0 0.03329 ± 0.0449
pull
Entries 82
Mean 172.9
Std Dev 0
pull1D
Entries 82
Mean −0.01326
Std Dev 0.8877

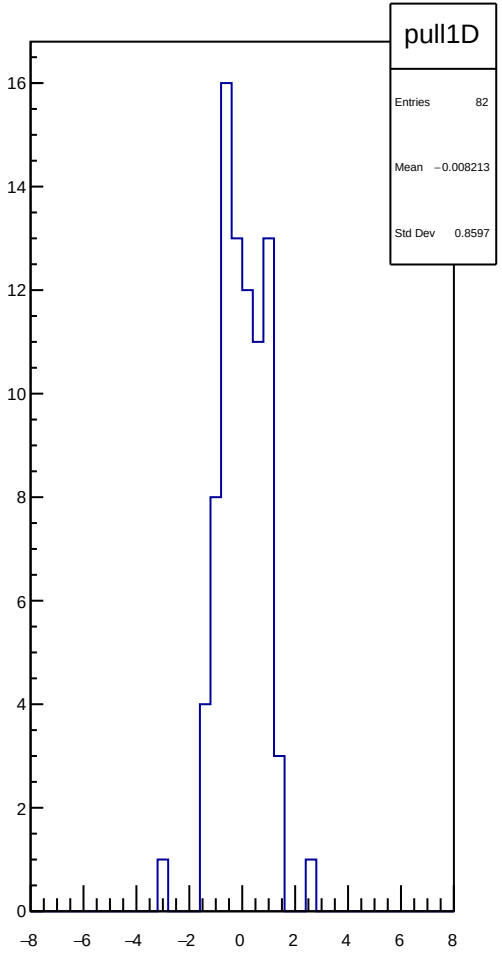

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.022e+04 / 81
p0 39.67 ± 0.03175
65
60
55
50
45
40
35
30
25

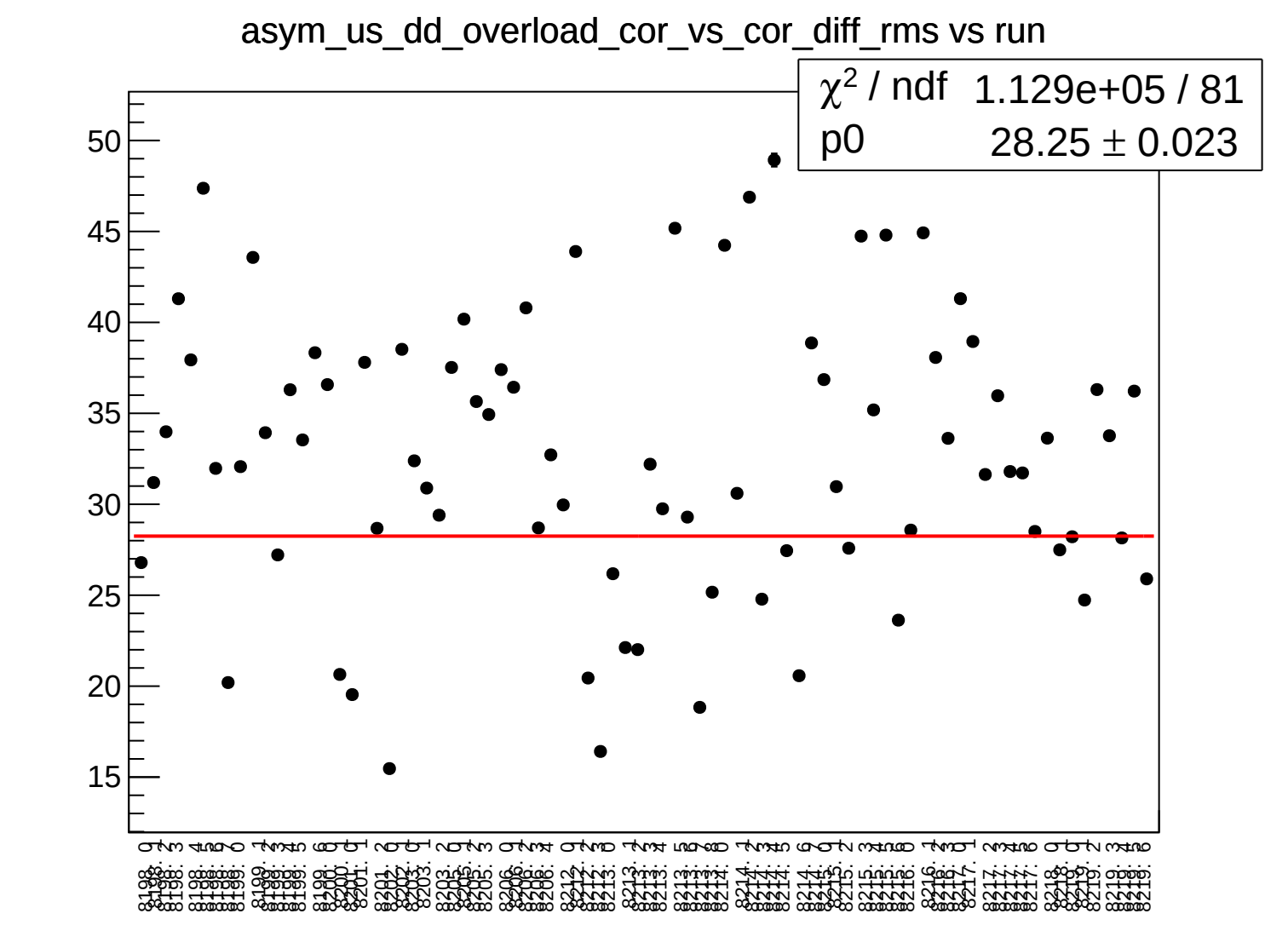

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.04 / 81
p0 −9.736e−14 ± 7.292e−14
pull
Entries 82
Mean −15.62
Std Dev 0

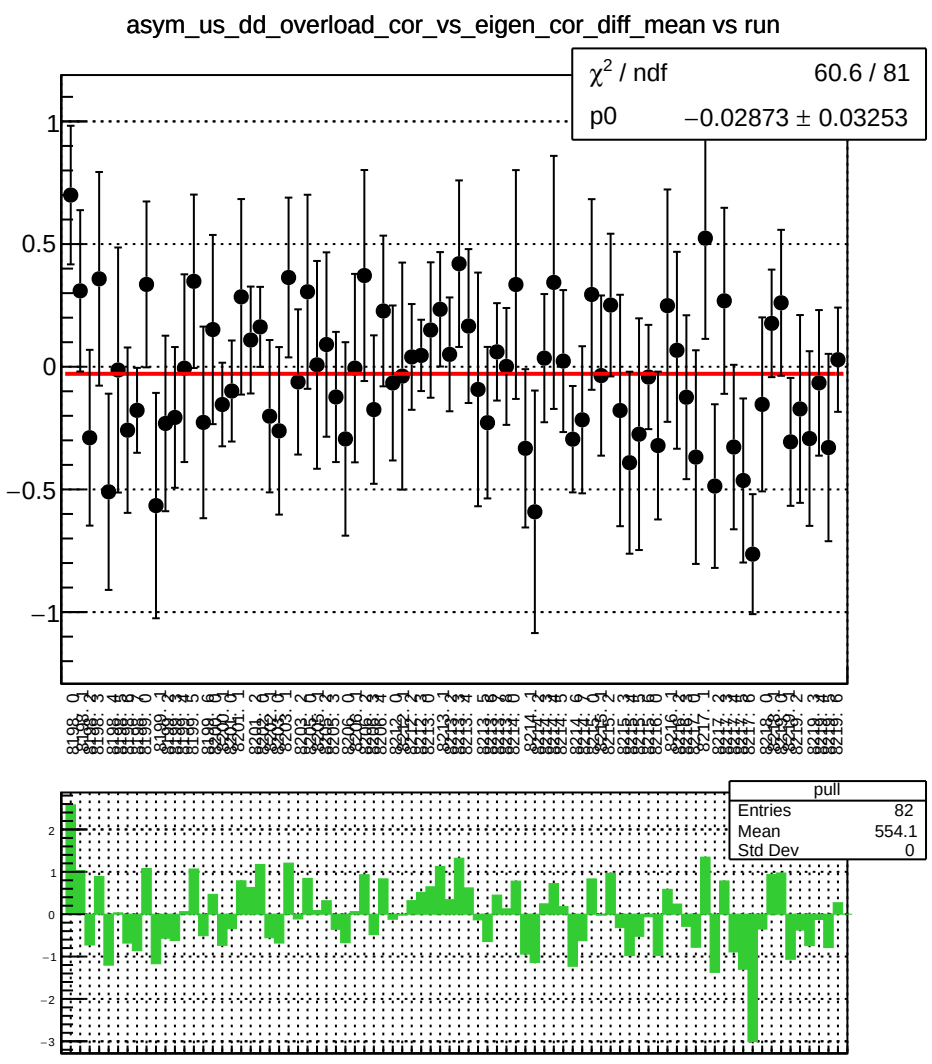

pull1D
Entries 82
Mean 0.03669
Std Dev 1.053

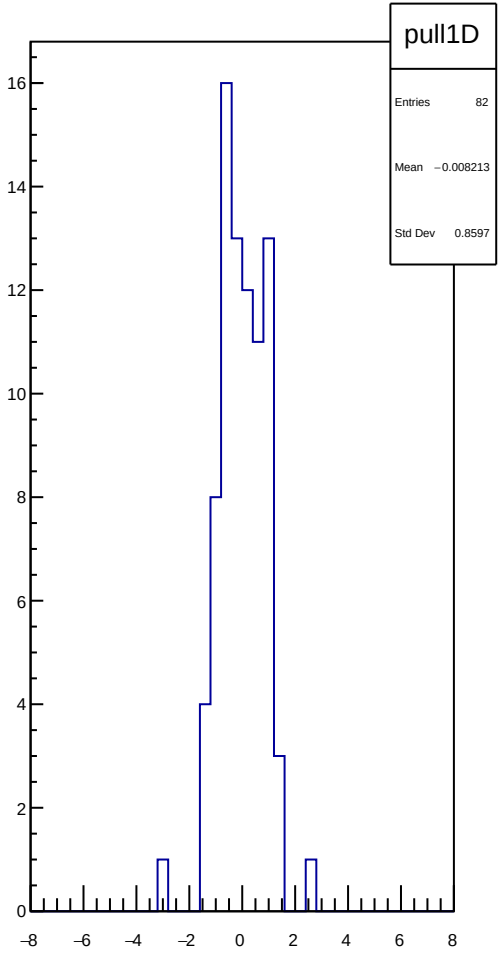

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 9.098e+05 / 81
p0 4.349e−11 ± 5.156e−14
$\times 10^{-9}$
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

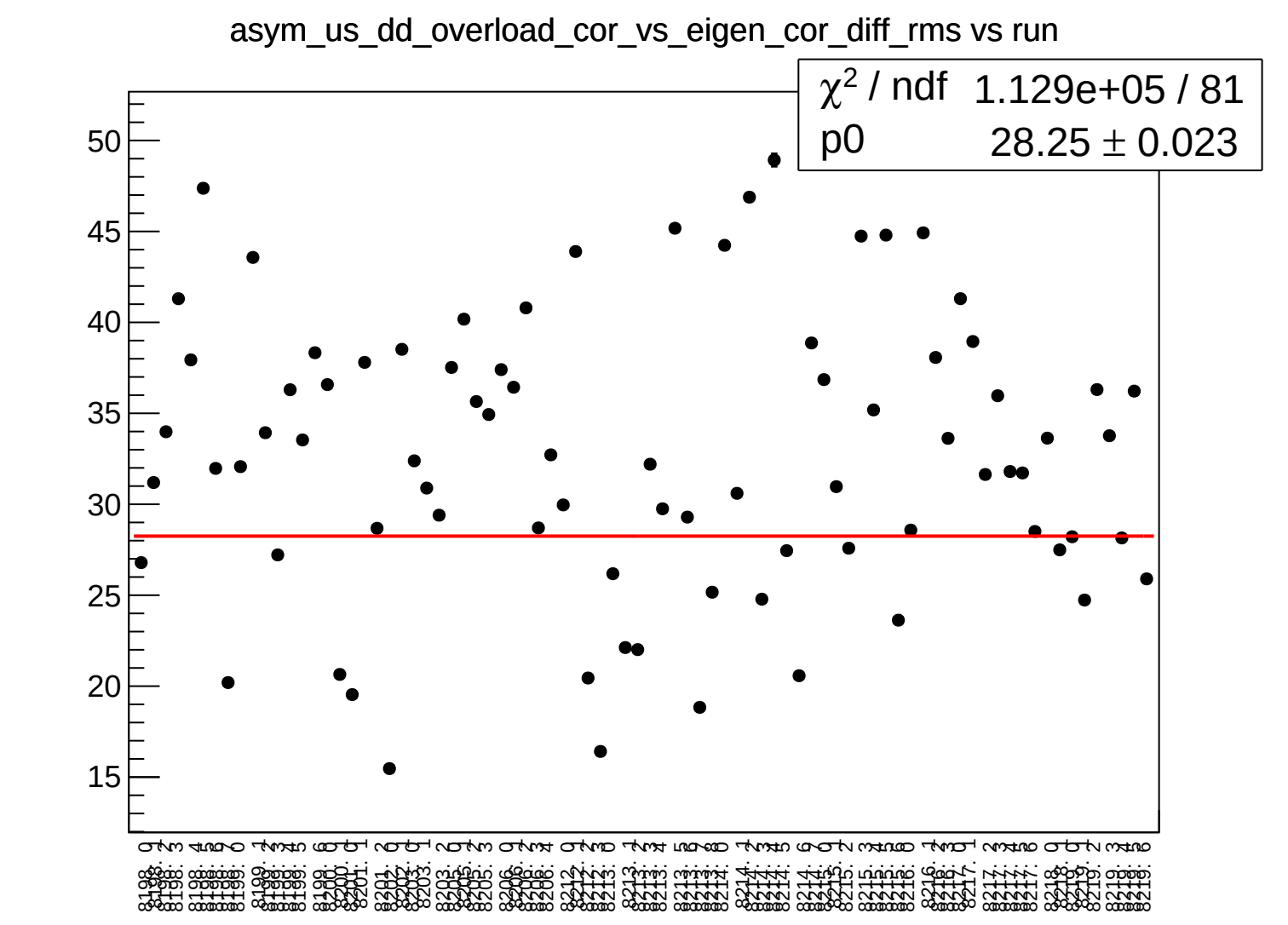

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 60.6 / 81
p0 −0.02873 ± 0.03253
pull
Entries 82
Mean 554.1
Std Dev 0

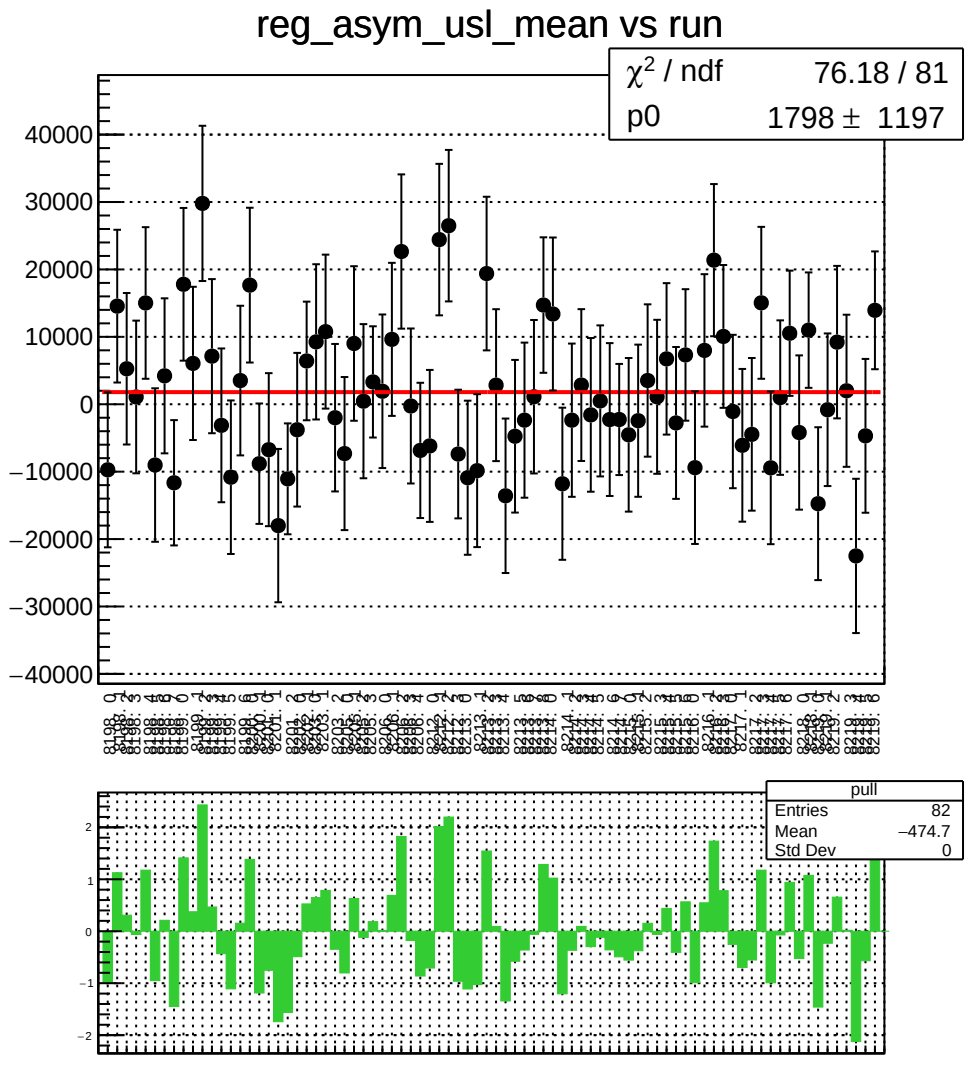

pull1D
Entries 82
Mean −0.008213
Std Dev 0.8597

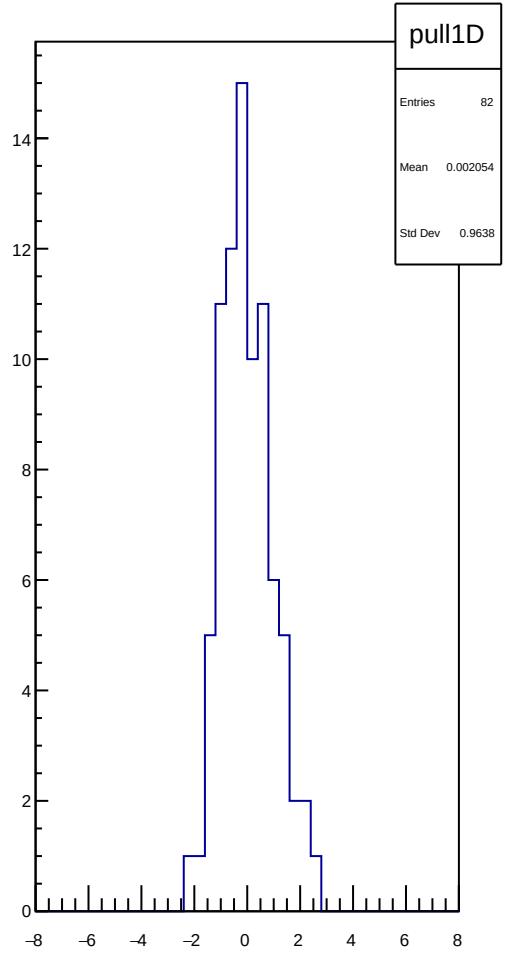

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.129e+05 / 81
p0 28.25 ± 0.023
50
45
40
35
30
25
20
15

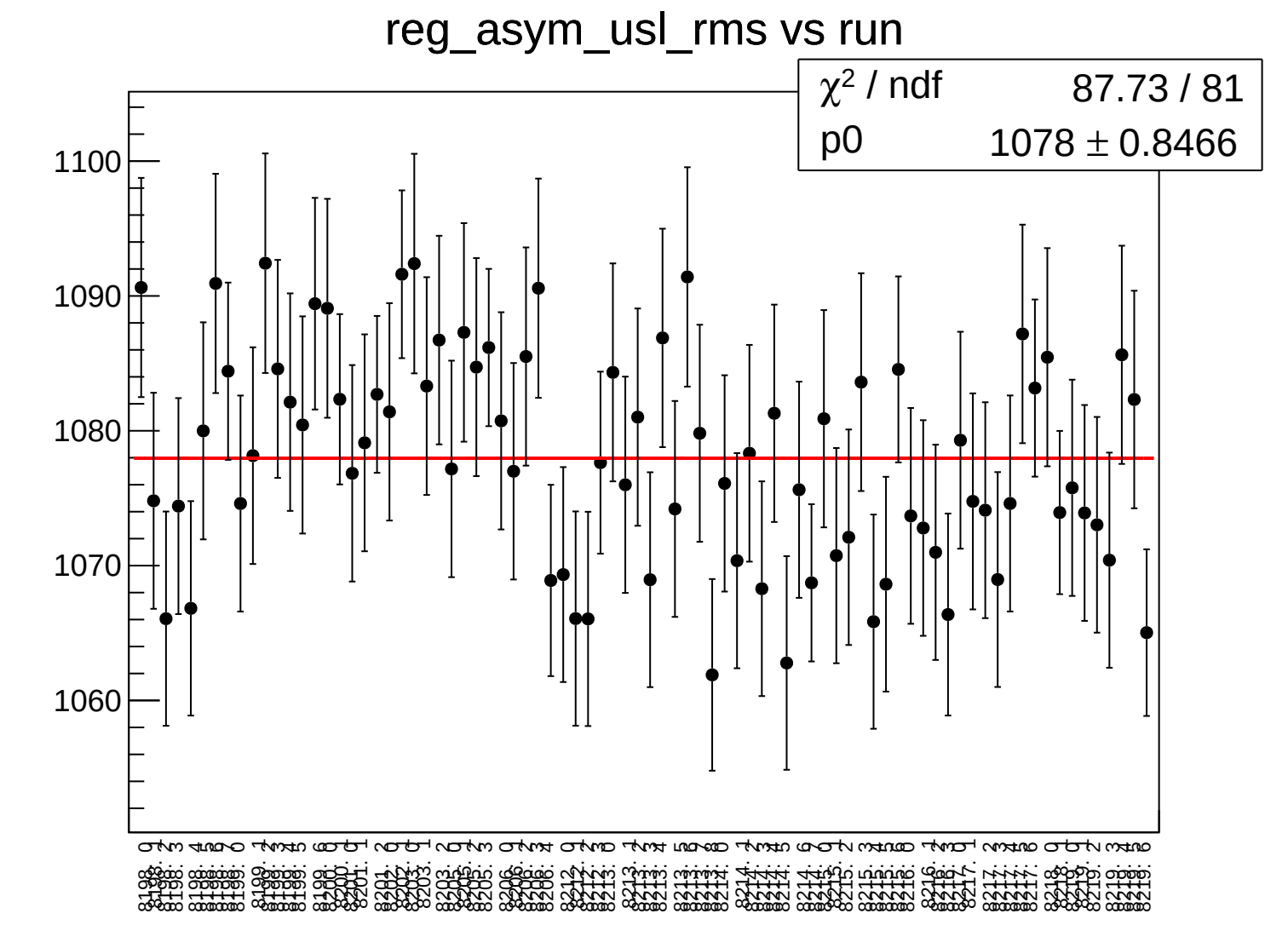

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.6 / 81
p0 −0.02873 ± 0.03253
pull
Entries 82
Mean 554.1
Std Dev 0

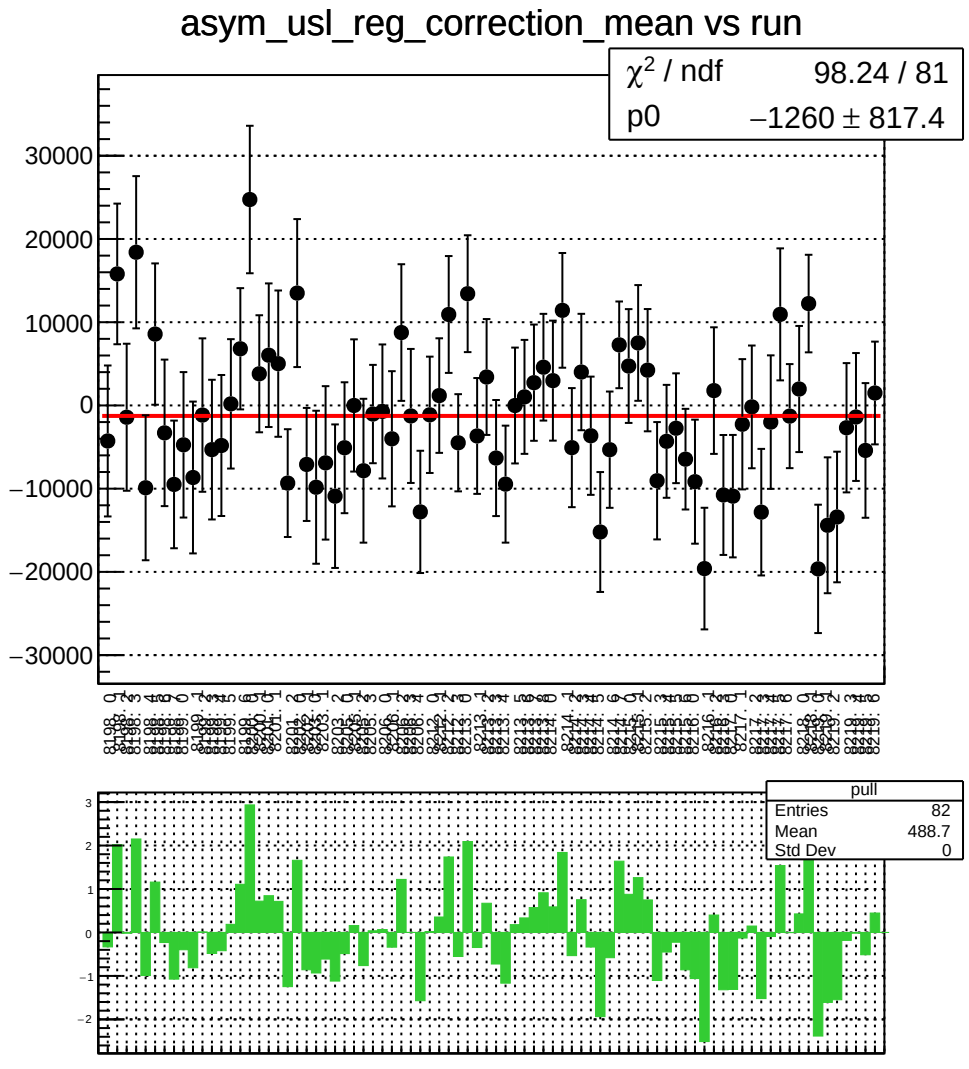

pull1D
Entries 82
Mean −0.008213
Std Dev 0.8597

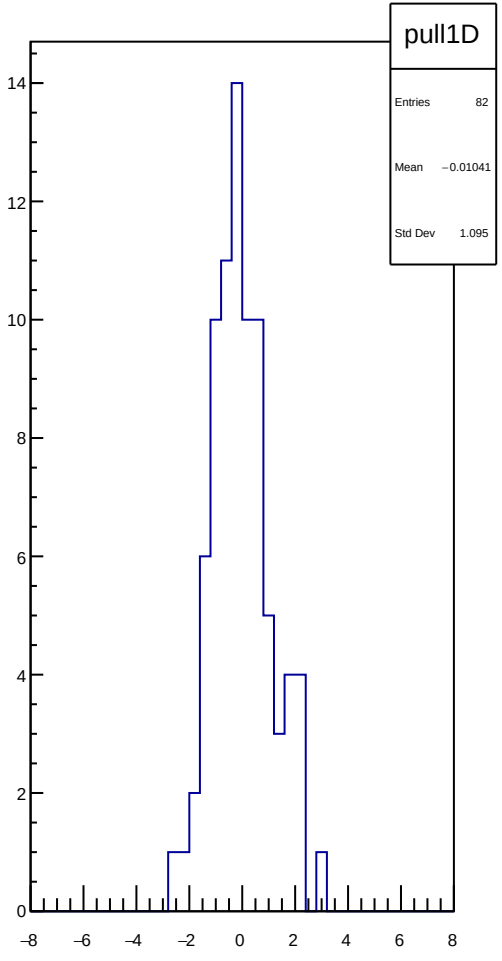

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.129e+05 / 81
p0 28.25 ± 0.023
50
45
40
35
30
25
20
15

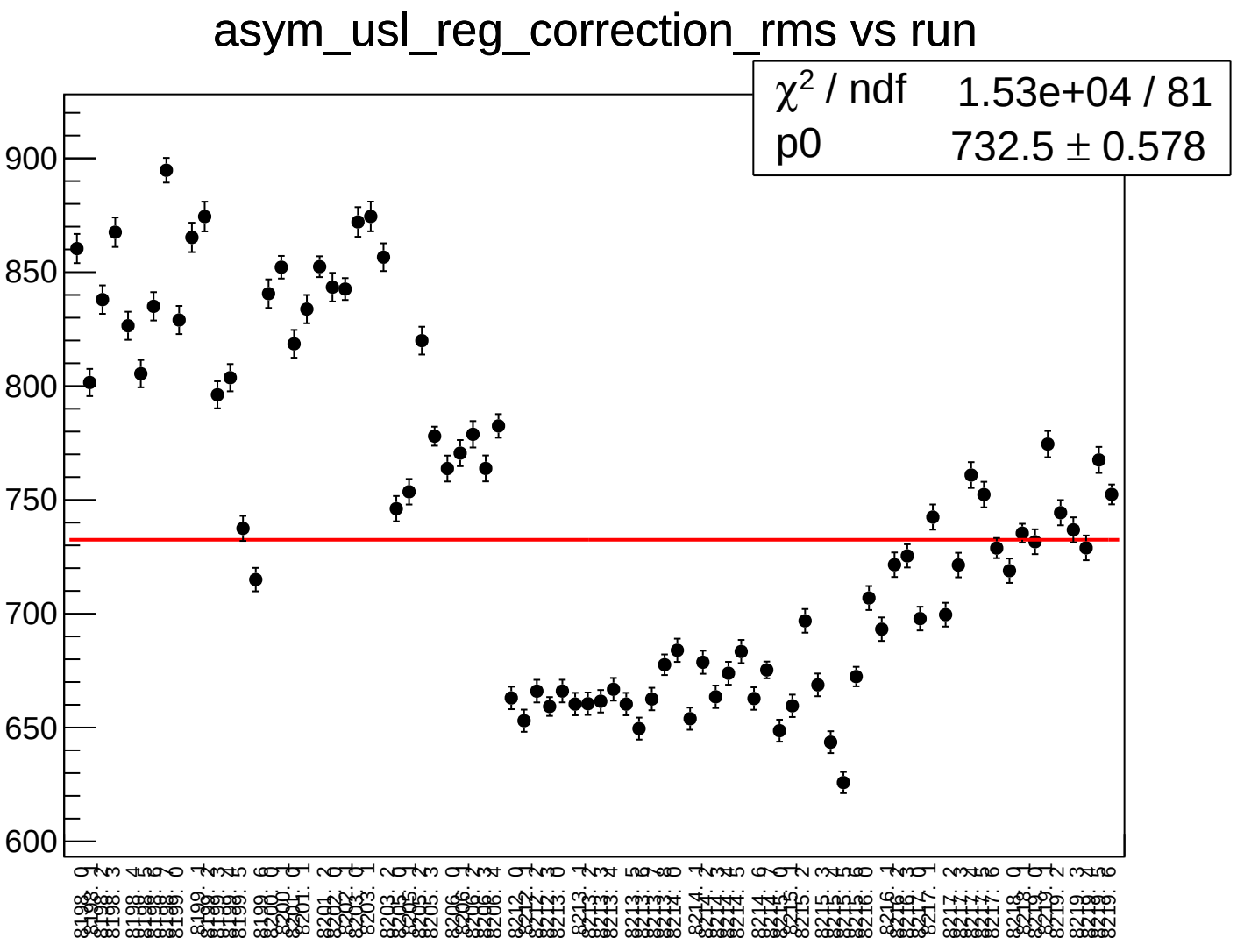

reg_asym_usl_mean vs run
χ² / ndf 76.18 / 81
p0 1798 ± 1197
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −474.7
Std Dev 0
2
1
0
−1
−2

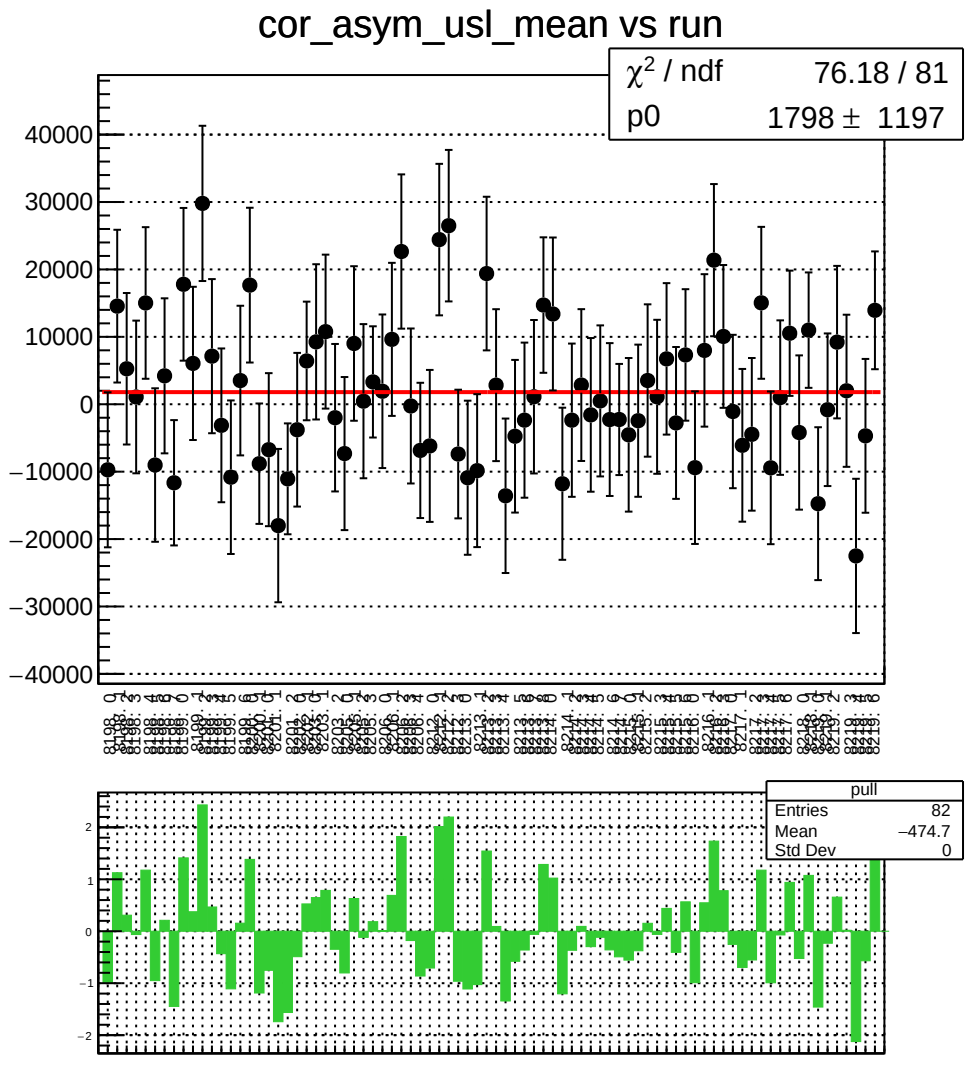

pull1D
Entries 82
Mean 0.002054
Std Dev 0.9638
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

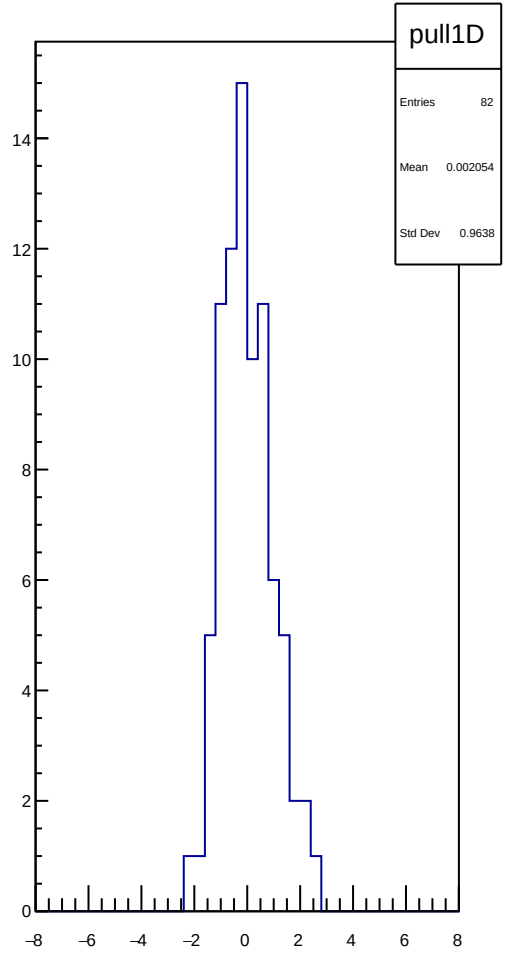

reg_asym_usl_rms vs run
χ² / ndf 87.73 / 81
p0 1078 ± 0.8466
1100
1090
1080
1070
1060

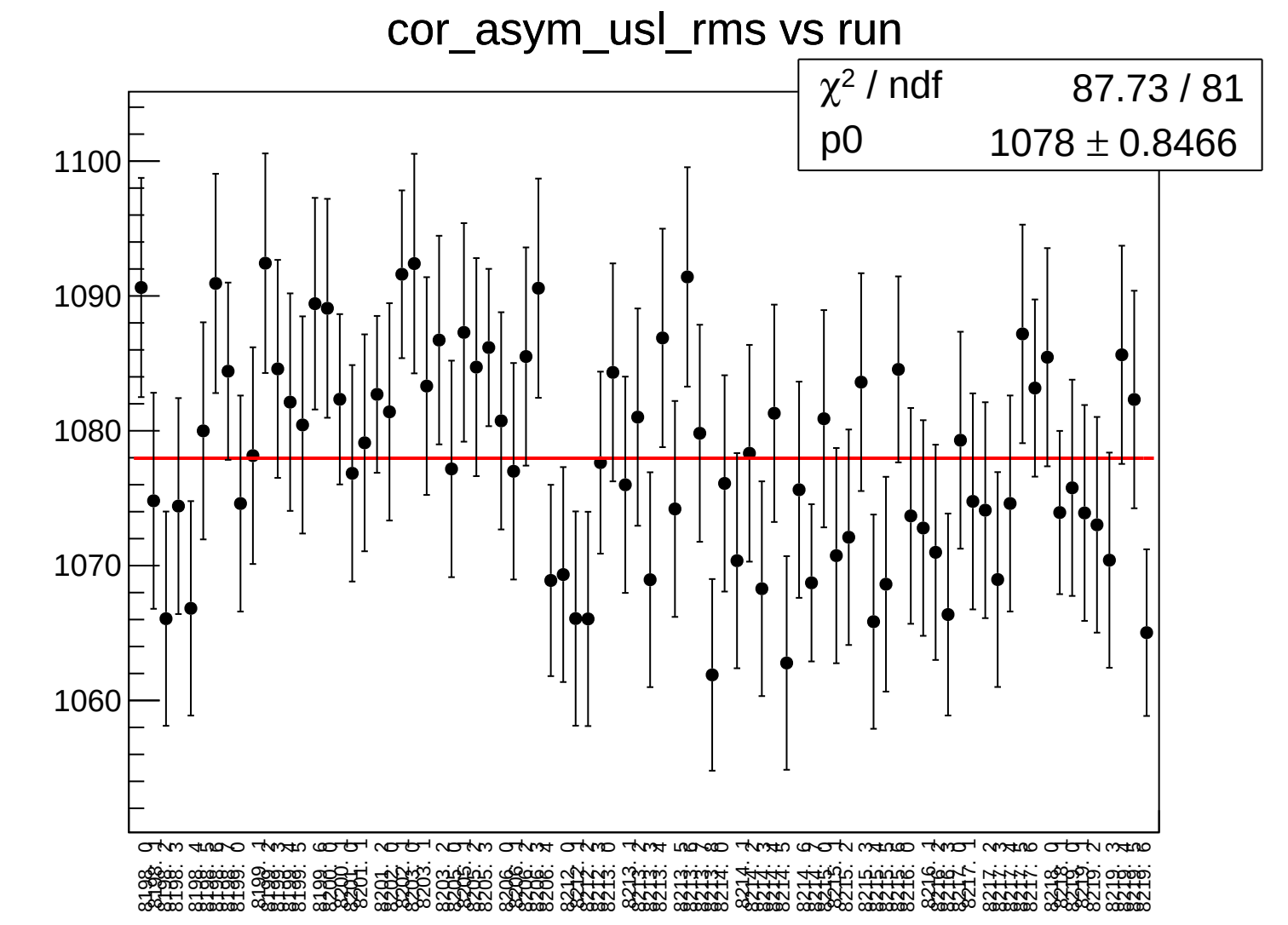

asym_usl_reg_correction_mean vs run
χ² / ndf 98.24 / 81
p0 −1260 ± 817.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 488.7
Std Dev 0
3
2
1
0
−1
−2

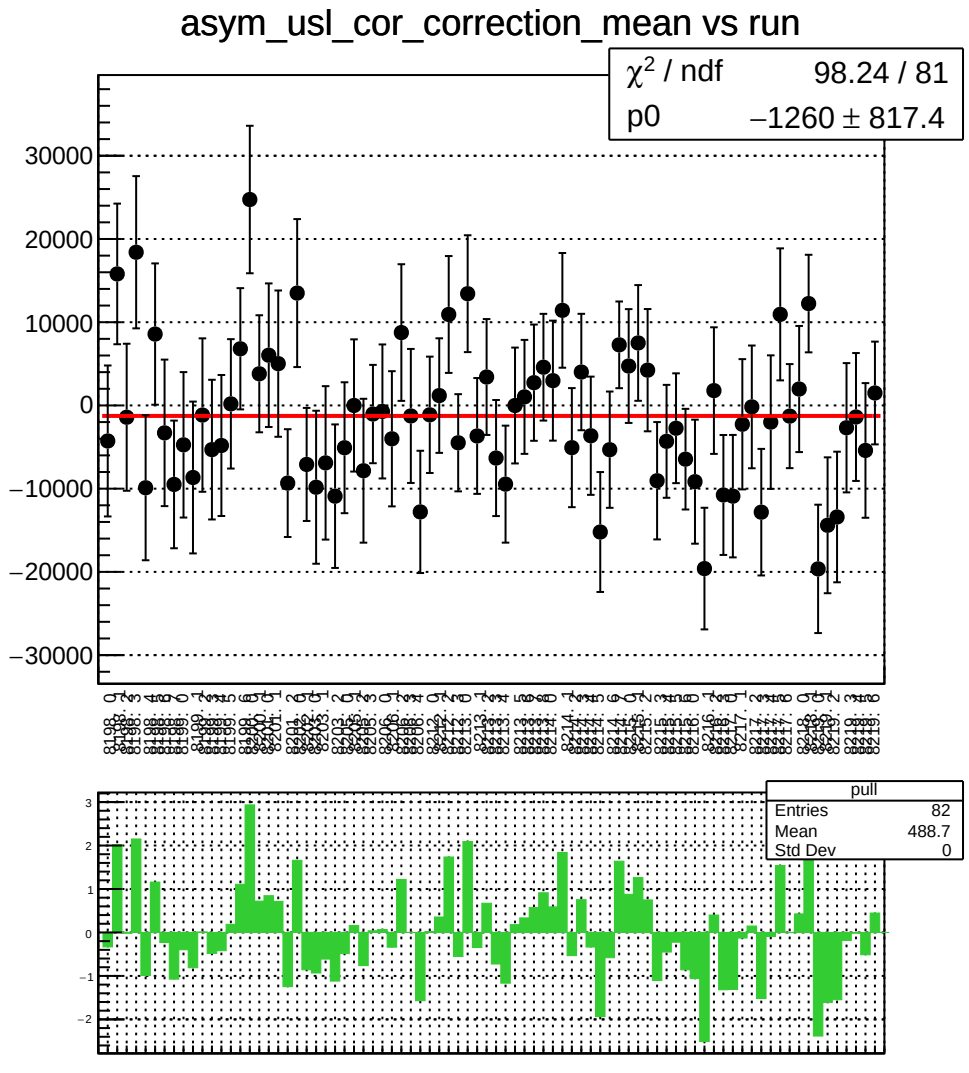

pull1D
Entries 82
Mean −0.01041
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

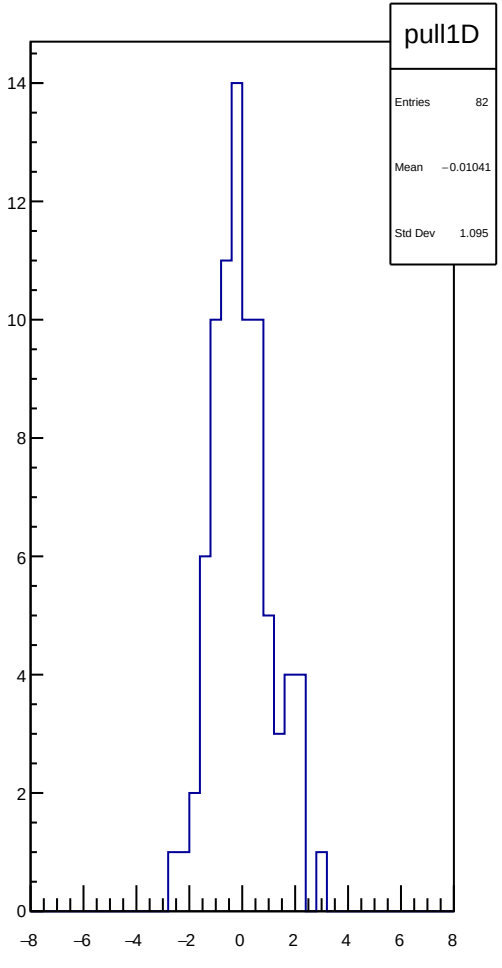

asym_usl_reg_correction_rms vs run
$\chi^2$ / ndf 1.53e+04 / 81
p0 732.5 ± 0.578
900
850
800
750
700
650
600

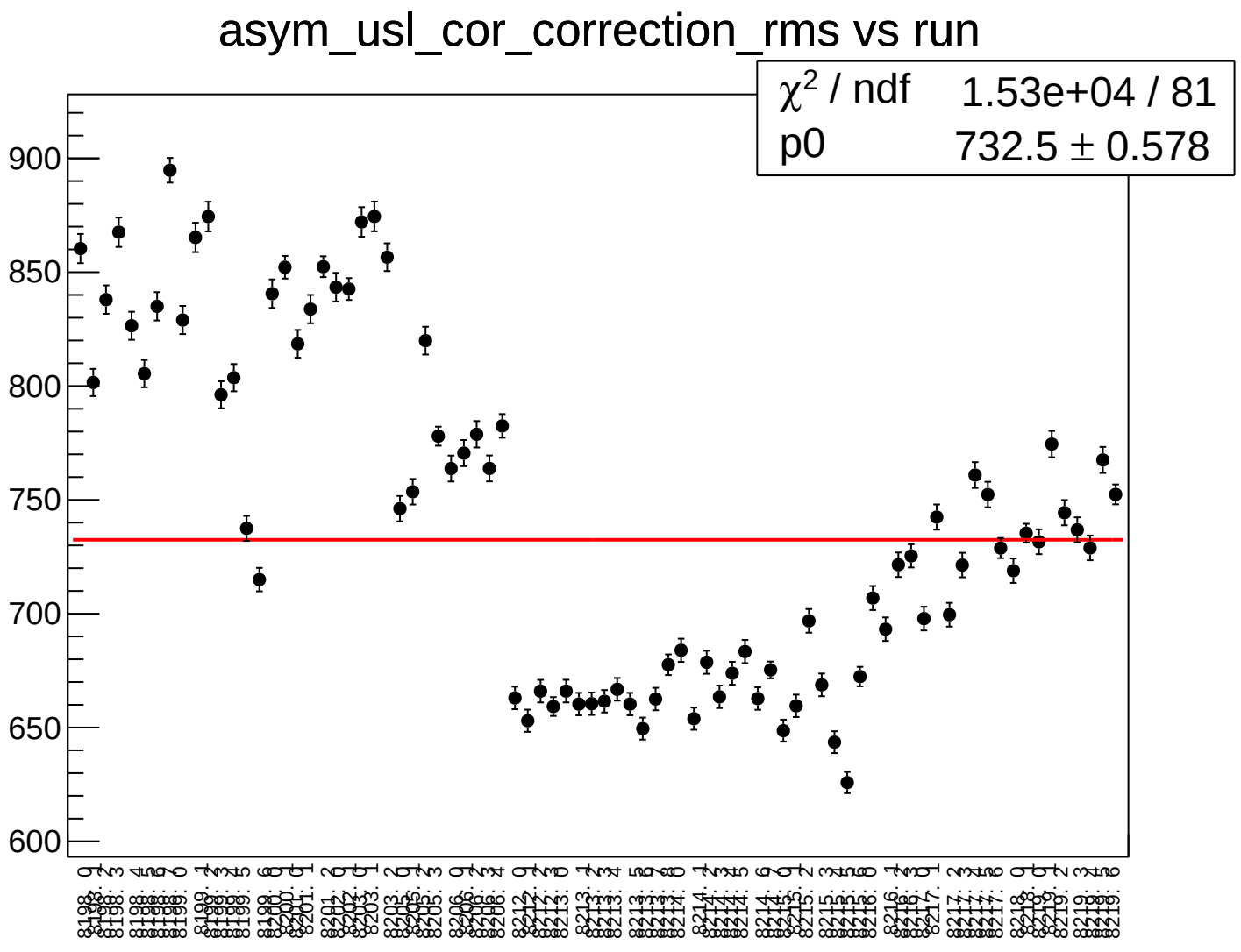

cor_asym_usl_mean vs run
χ² / ndf 76.18 / 81
p0 1798 ± 1197
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −474.7
Std Dev 0
2
1
0
−1
−2

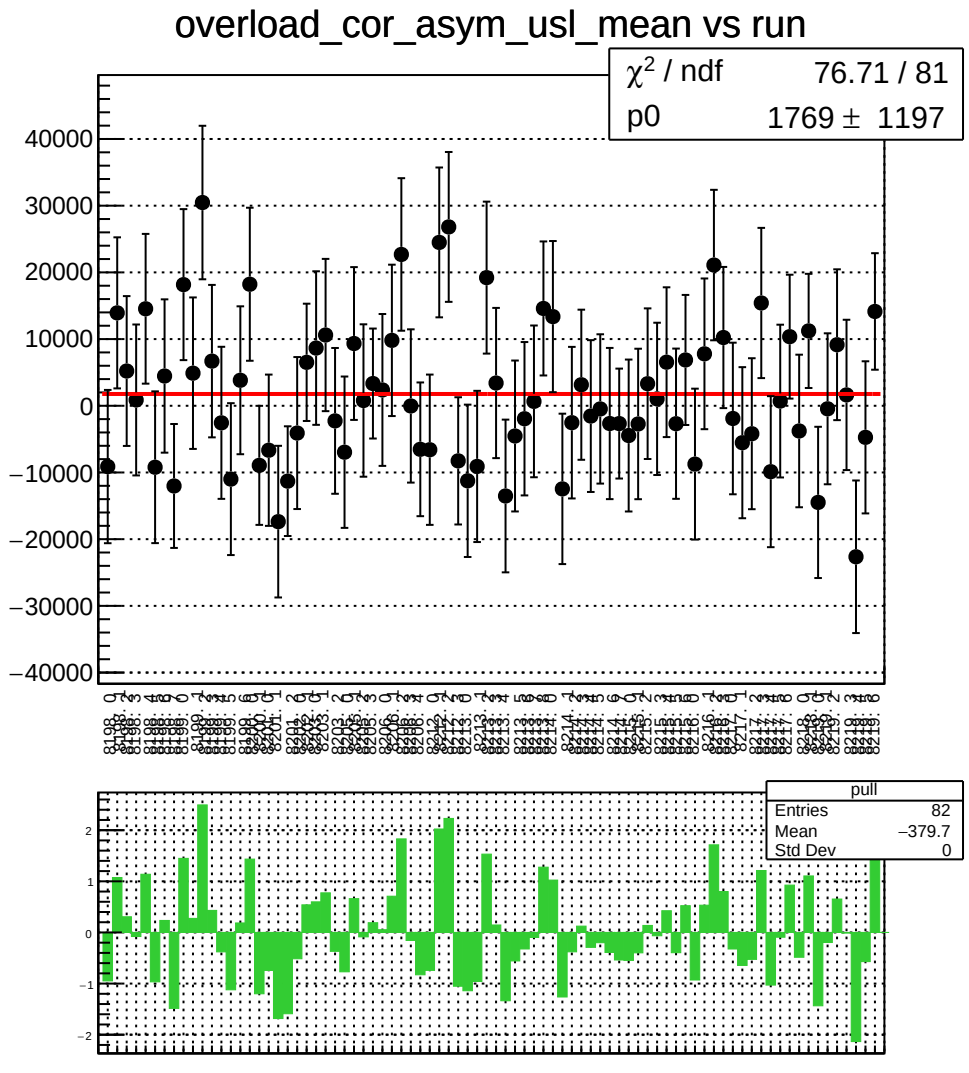

pull1D
Entries 82
Mean 0.002054
Std Dev 0.9638
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

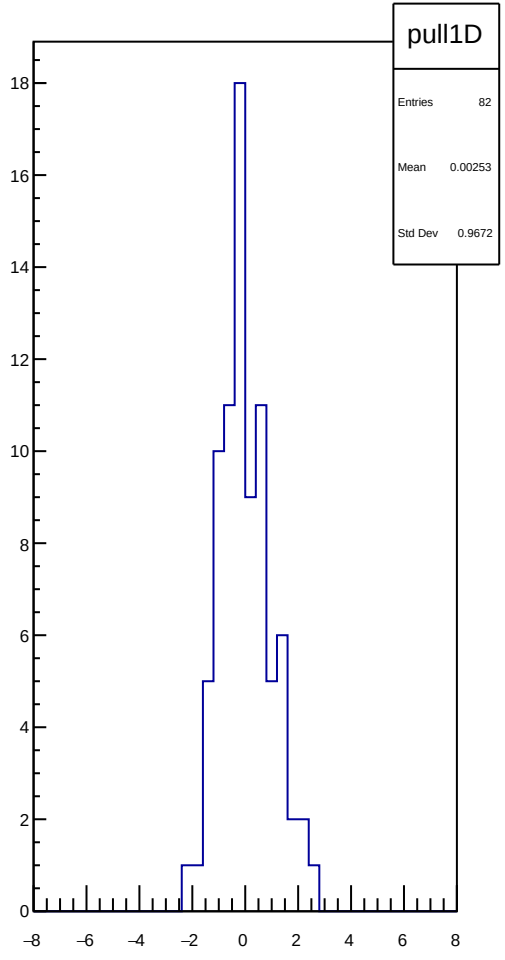

cor_asym_usl_rms vs run
χ² / ndf 87.73 / 81
p0 1078 ± 0.8466
1100
1090
1080
1070
1060

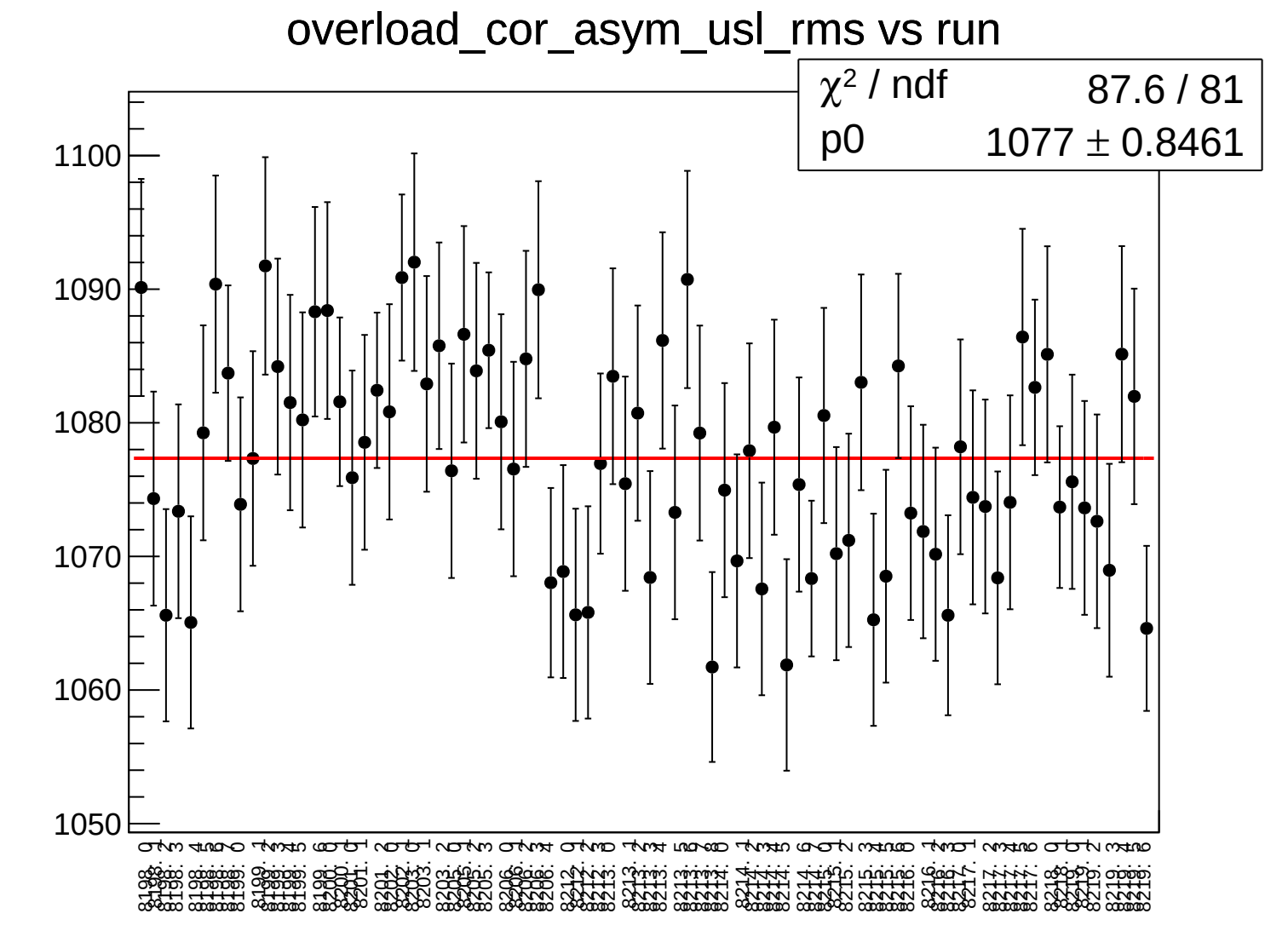

asym_usl_cor_correction_mean vs run
χ² / ndf 98.24 / 81
p0 −1260 ± 817.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 488.7
Std Dev 0
3
2
1
0
−1
−2

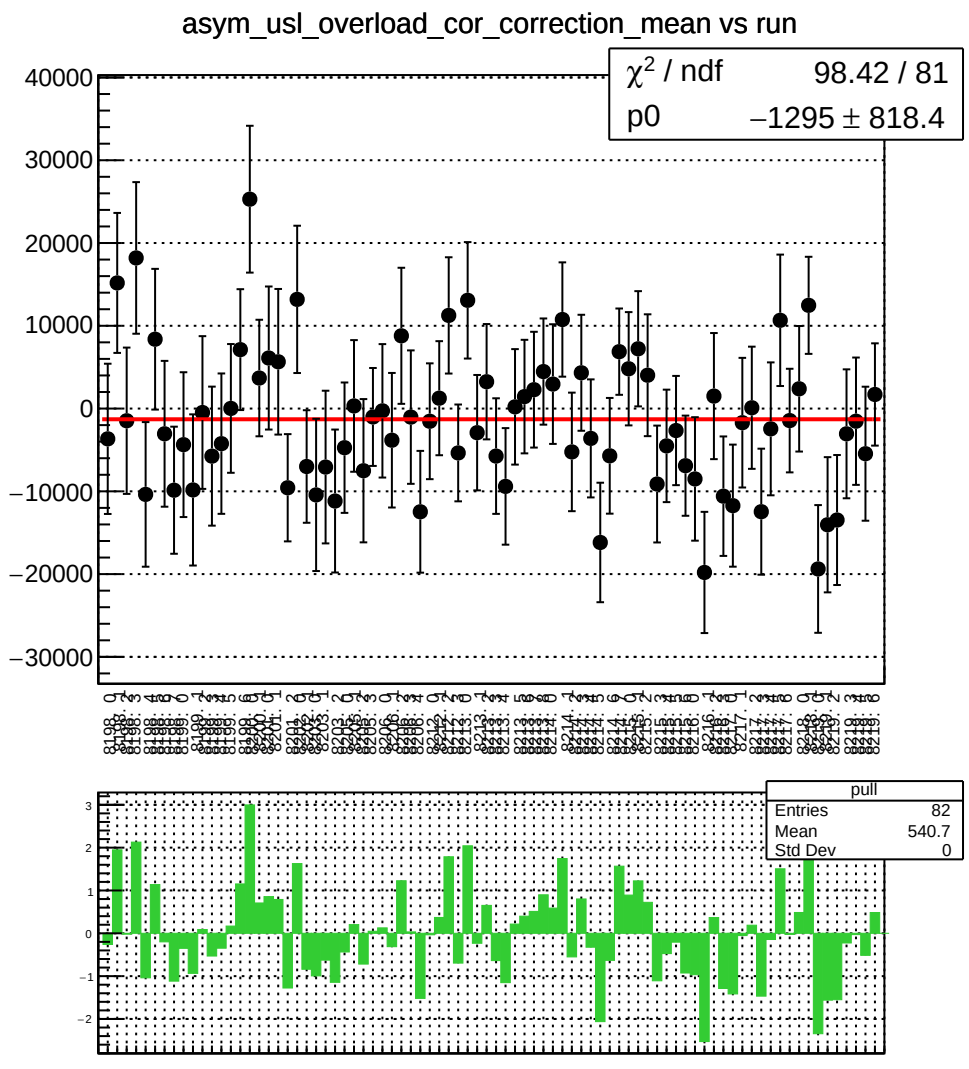

pull1D
Entries 82
Mean −0.01041
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

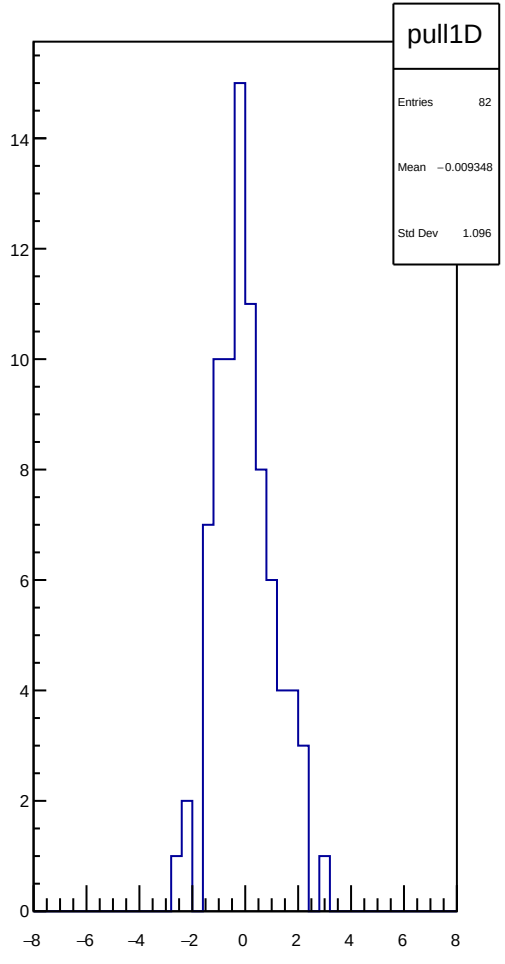

asym_usl_cor_correction_rms vs run
χ² / ndf 1.53e+04 / 81
p0 732.5 ± 0.578
900
850
800
750
700
650
600

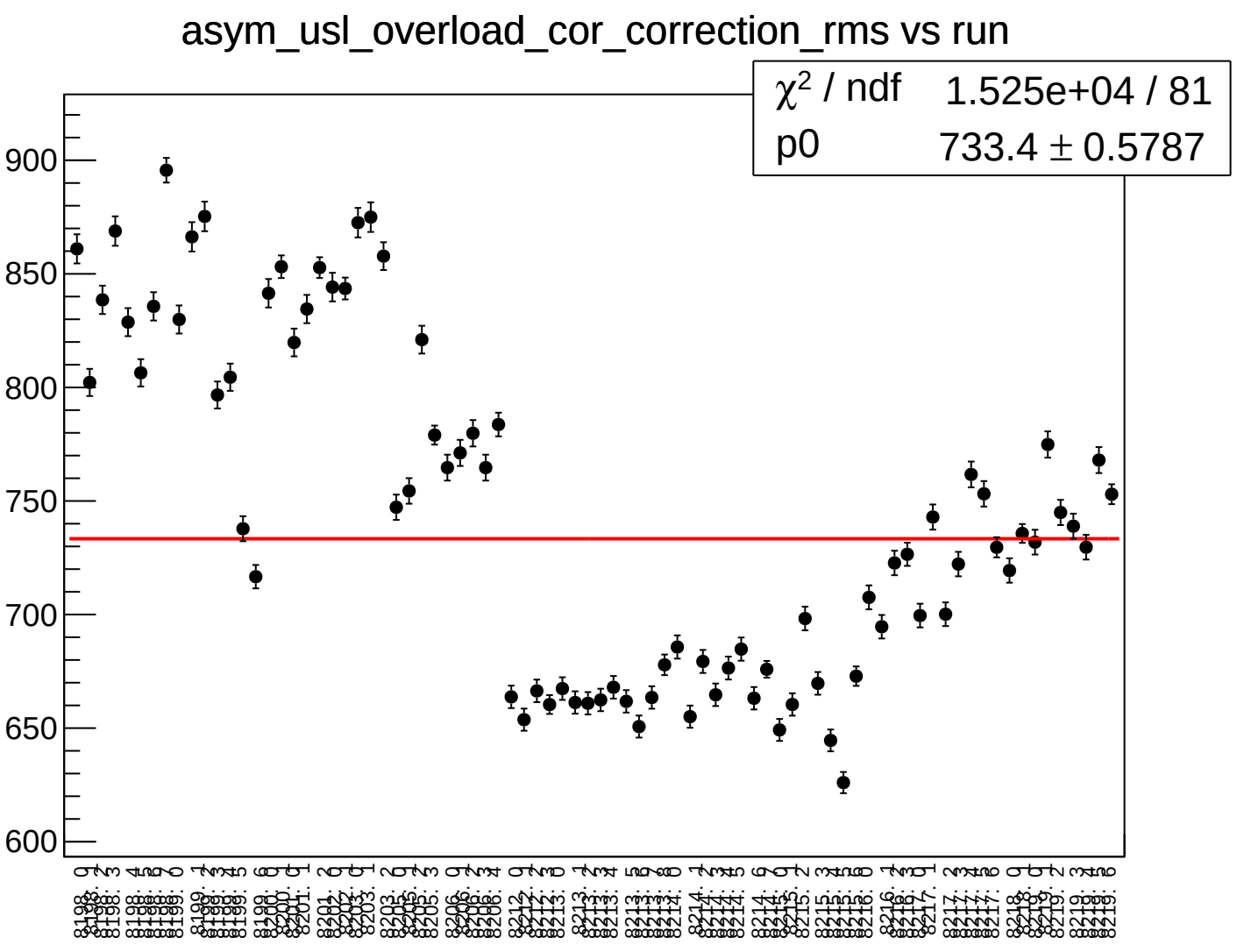

overload_cor_asym_usl_mean vs run
χ² / ndf 76.71 / 81
p0 1769 ± 1197
pull
Entries 82
Mean −379.7
Std Dev 0

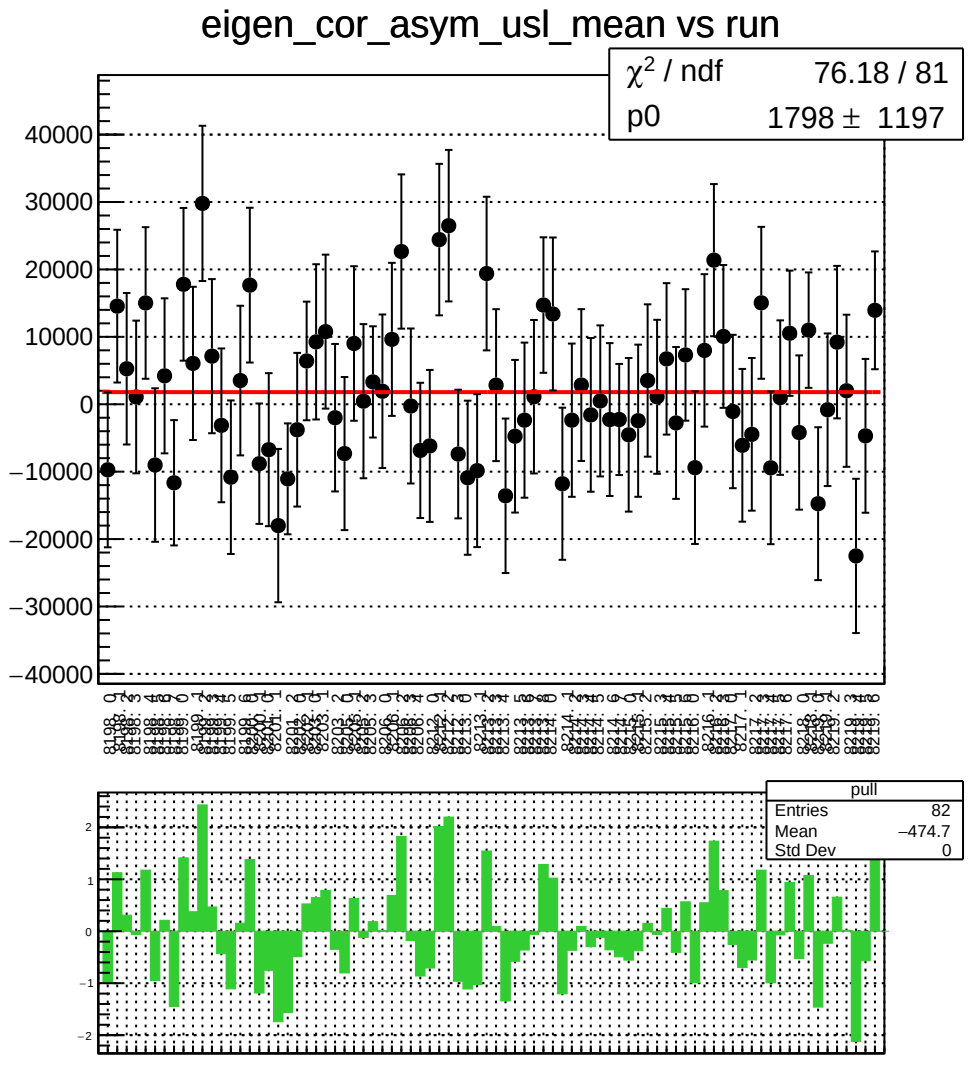

pull1D
Entries 82
Mean 0.00253
Std Dev 0.9672

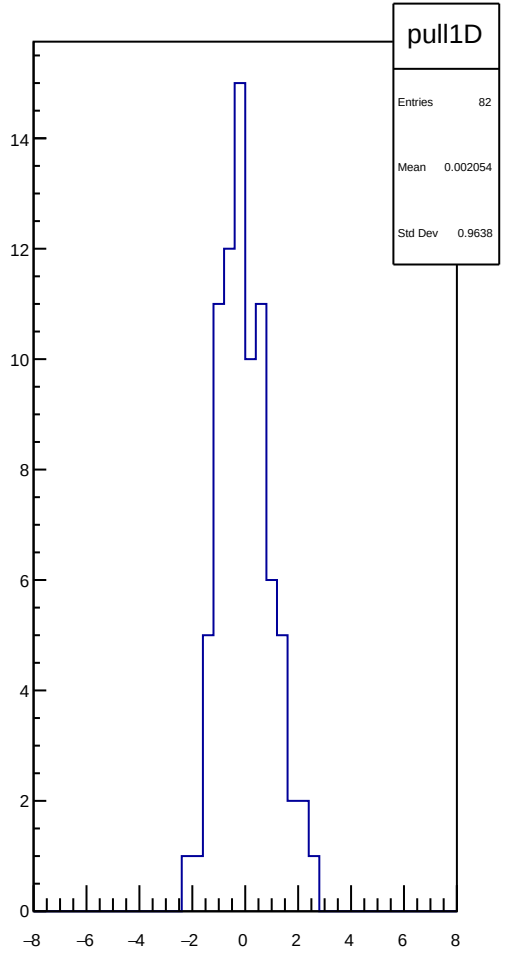

overload_cor_asym_usl_rms vs run
χ² / ndf 87.6 / 81
p0 1077 ± 0.8461
1100
1090
1080
1070
1060
1050

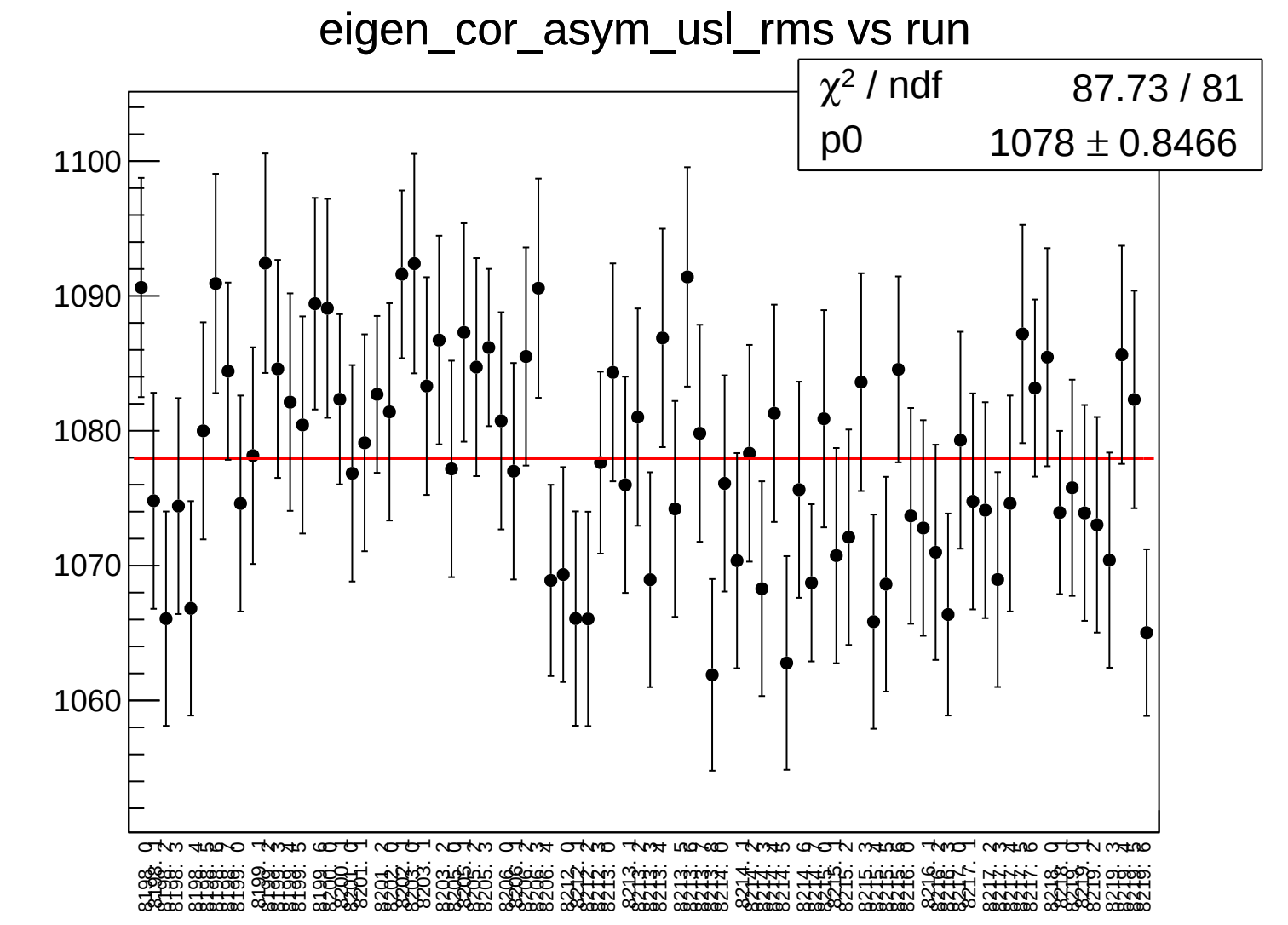

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 98.42 / 81
p0 −1295 ± 818.4
pull
Entries 82
Mean 540.7
Std Dev 0

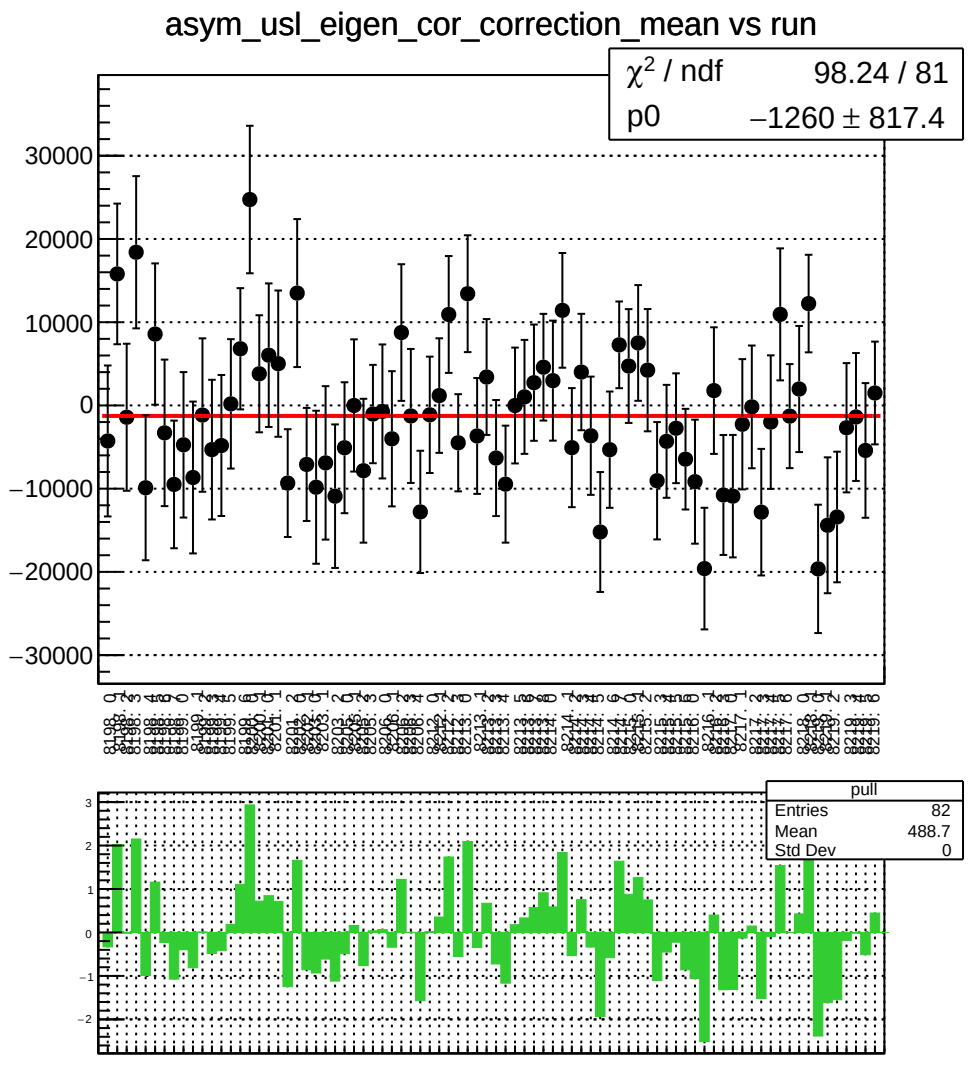

pull1D
Entries 82
Mean −0.009348
Std Dev 1.096

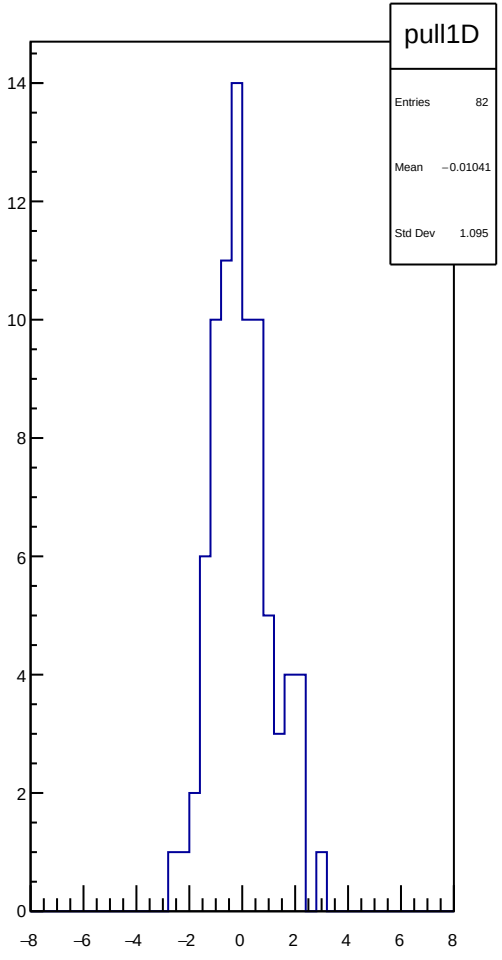

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1.525e+04 / 81
p0 733.4 ± 0.5787
900
850
800
750
700
650
600

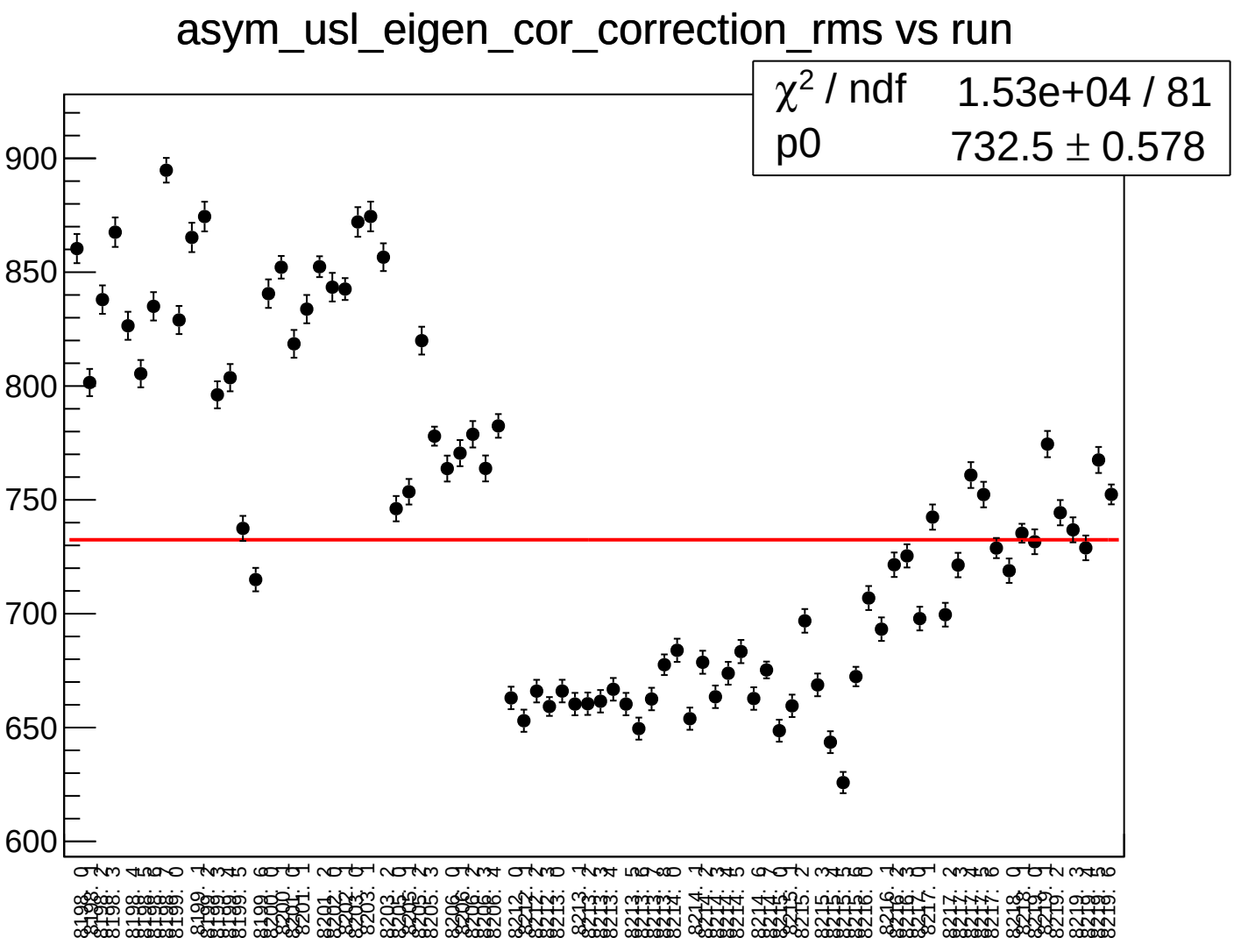

eigen_cor_asym_usl_mean vs run
χ² / ndf 76.18 / 81
p0 1798 ± 1197
pull
Entries 82
Mean −474.7
Std Dev 0

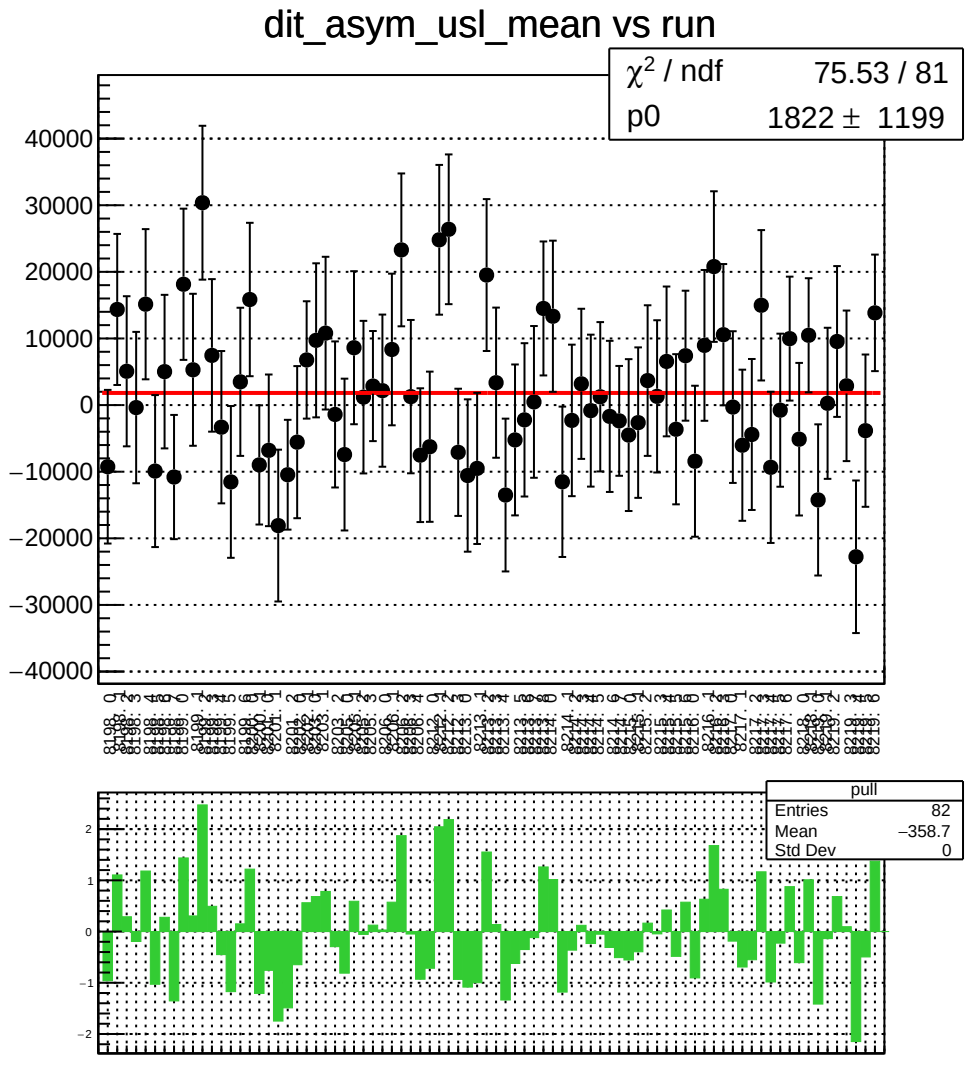

pull1D
Entries 82
Mean 0.002054
Std Dev 0.9638

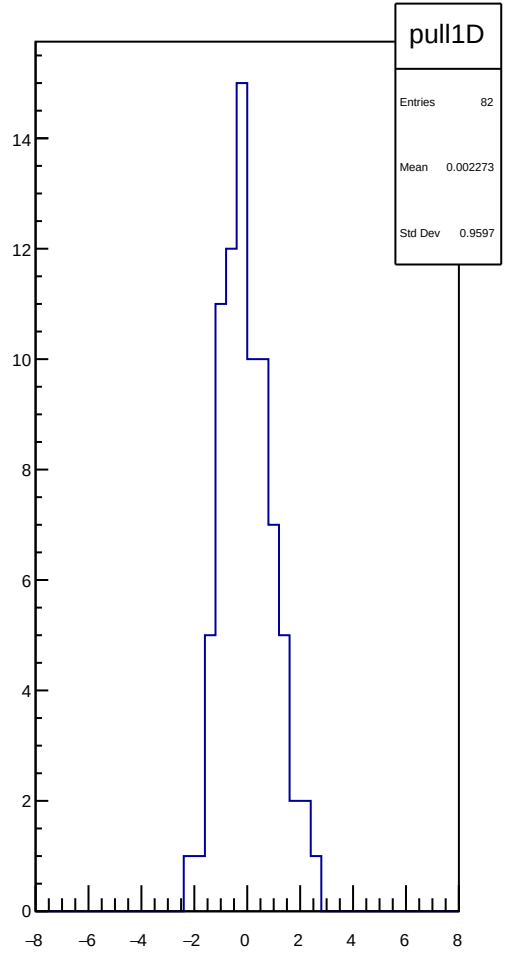

eigen_cor_asym_usl_rms vs run
χ² / ndf 87.73 / 81
p0 1078 ± 0.8466
1100
1090
1080
1070
1060

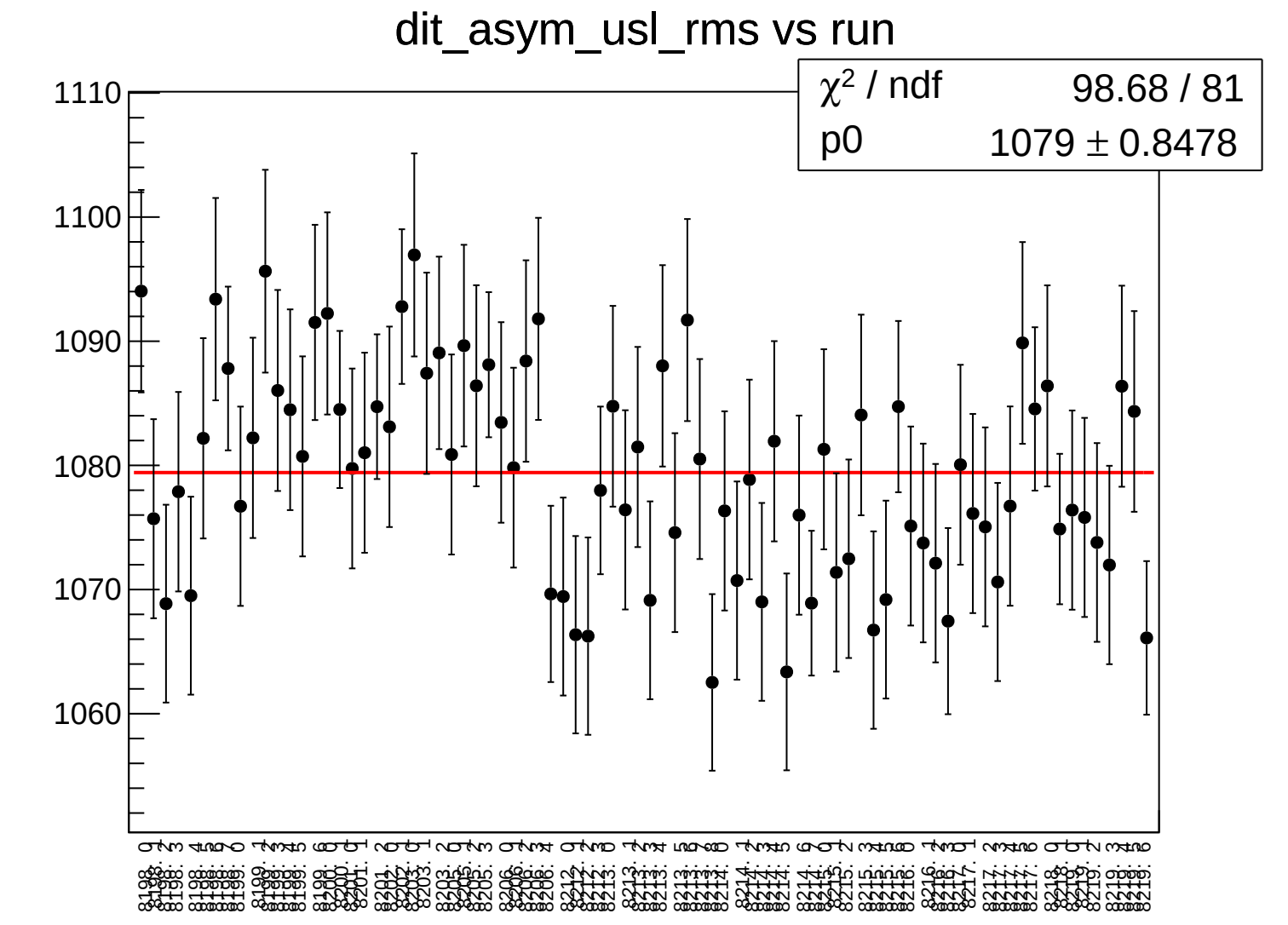

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 98.24 / 81
p0 −1260 ± 817.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 488.7
Std Dev 0
3
2
1
0
−1
−2

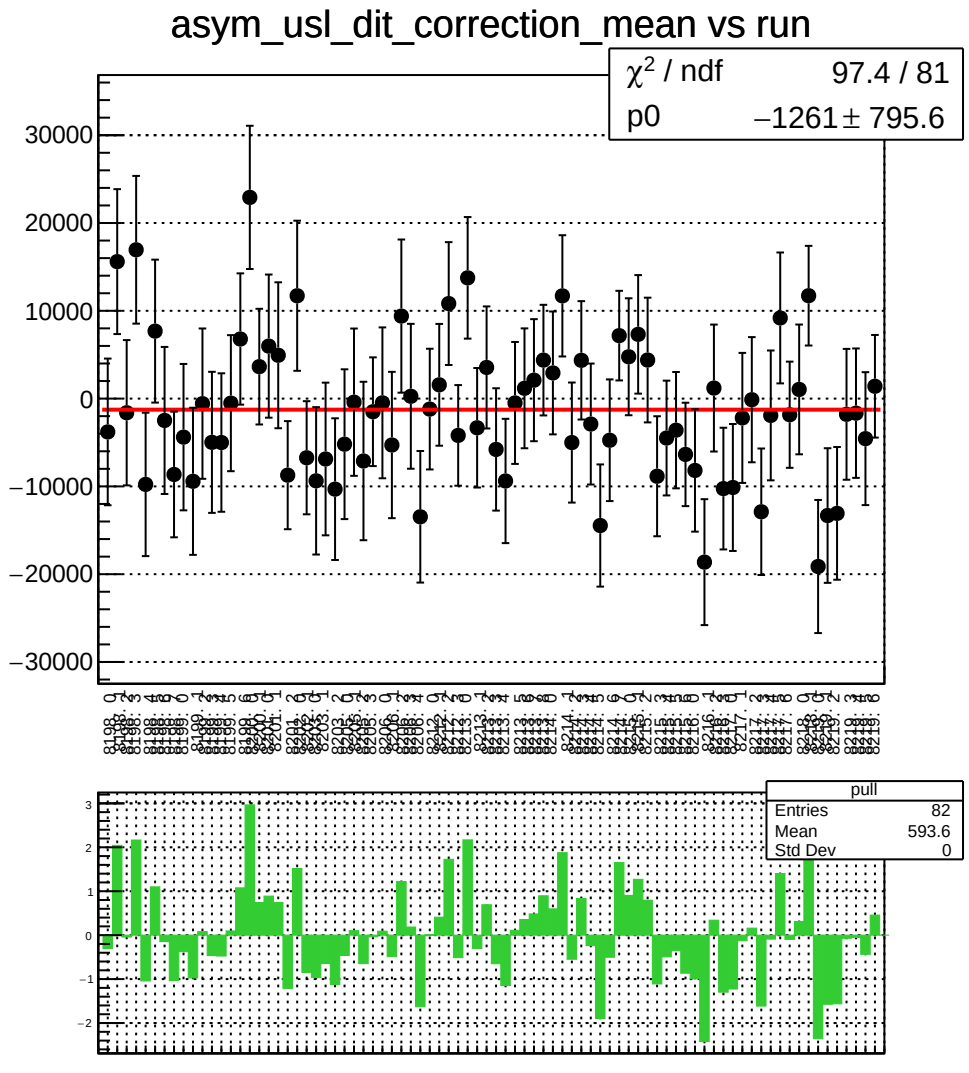

pull1D
Entries 82
Mean −0.01041
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

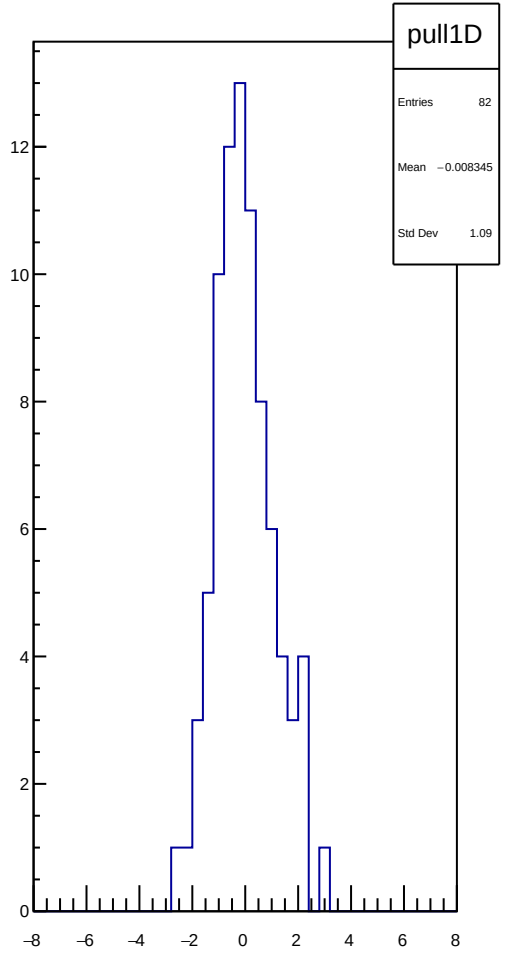

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1.53e+04 / 81
p0 732.5 ± 0.578
900
850
800
750
700
650
600

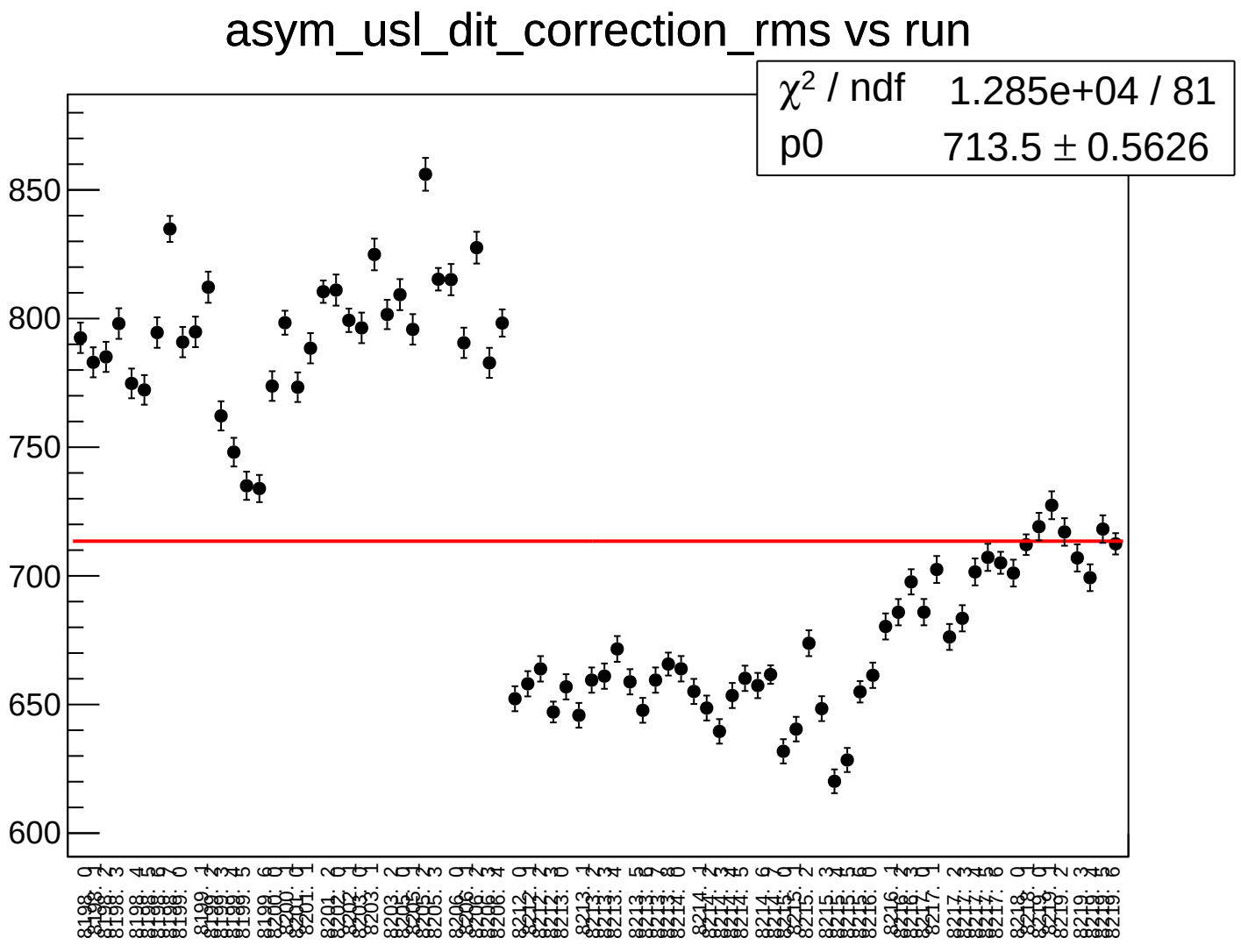

dit_asym_usl_mean vs run
χ² / ndf 75.53 / 81
p0 1822 ± 1199
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −358.7
Std Dev 0
2
1
0
−1
−2

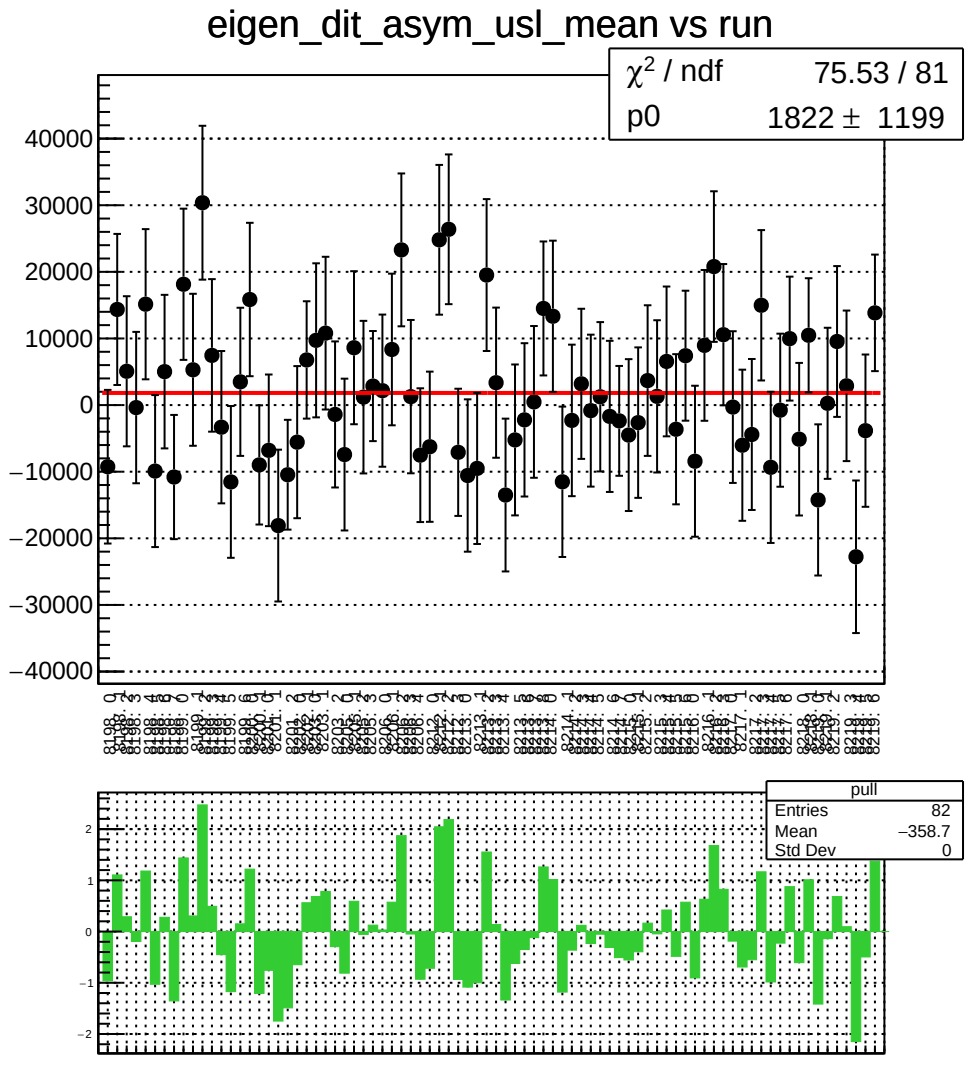

pull1D
Entries 82
Mean 0.002273
Std Dev 0.9597
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

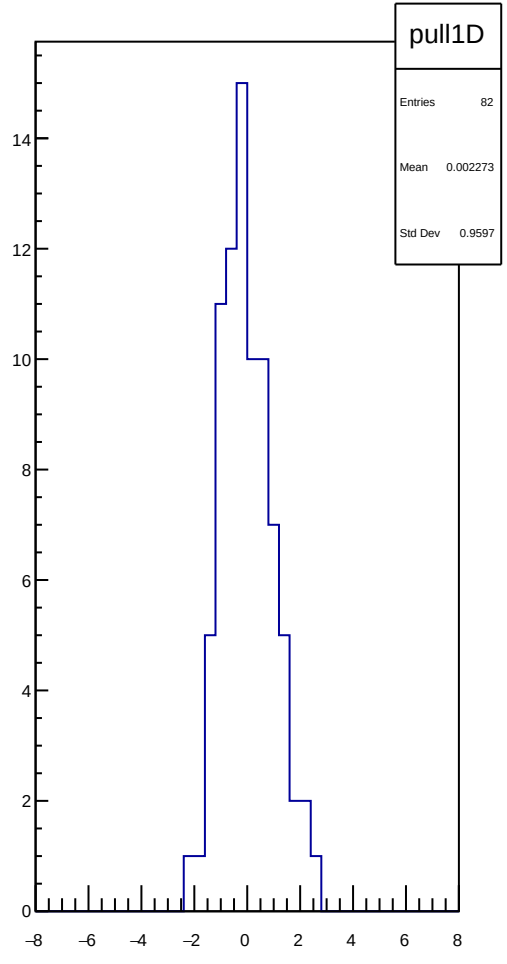

dit_asym_usl_rms vs run
χ² / ndf 98.68 / 81
p0 1079 ± 0.8478
1110
1100
1090
1080
1070
1060

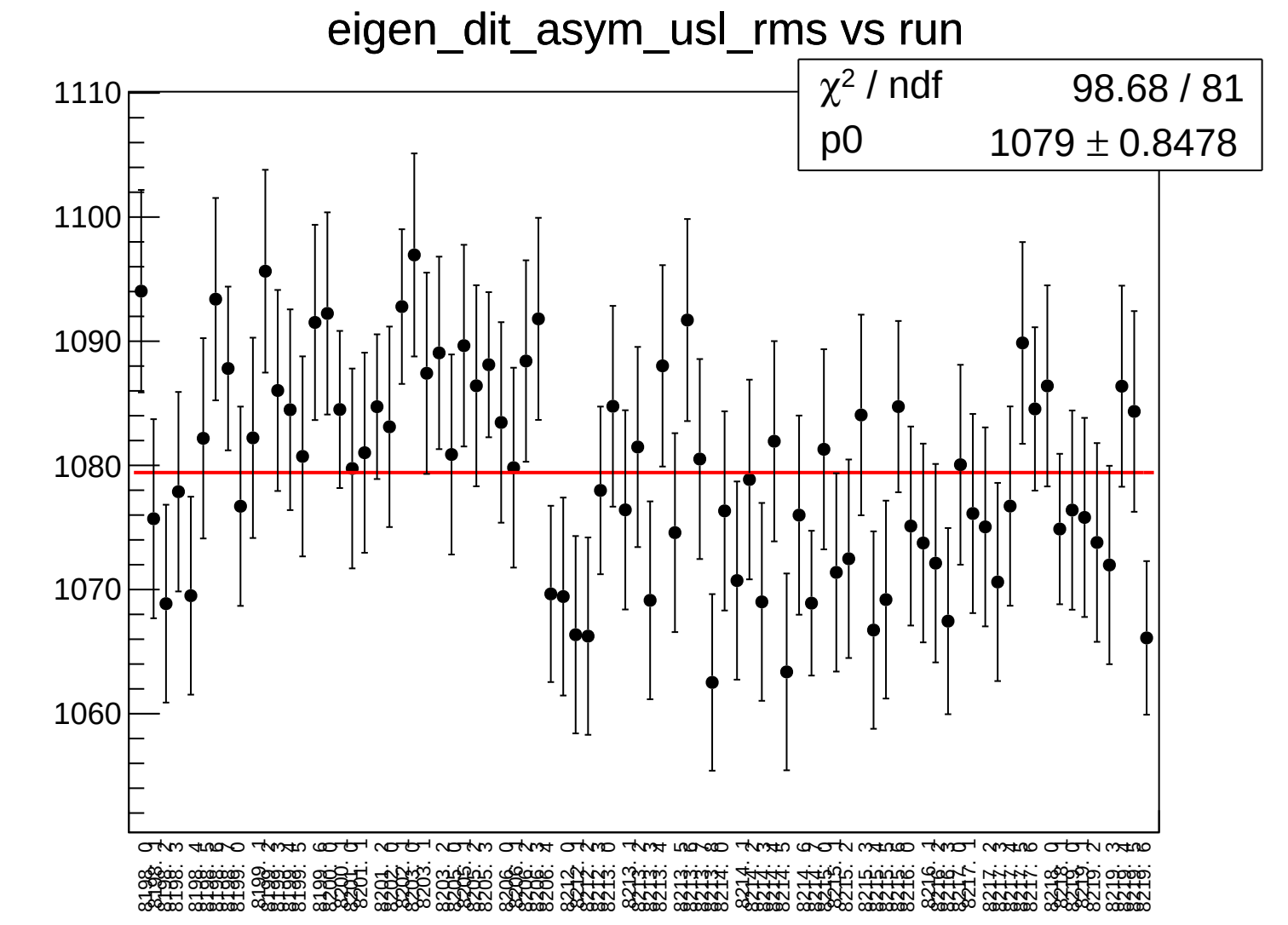

asym_usl_dit_correction_mean vs run
χ² / ndf 97.4 / 81
p0 −1261 ± 795.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 593.6
Std Dev 0
3
2
1
0
−1
−2

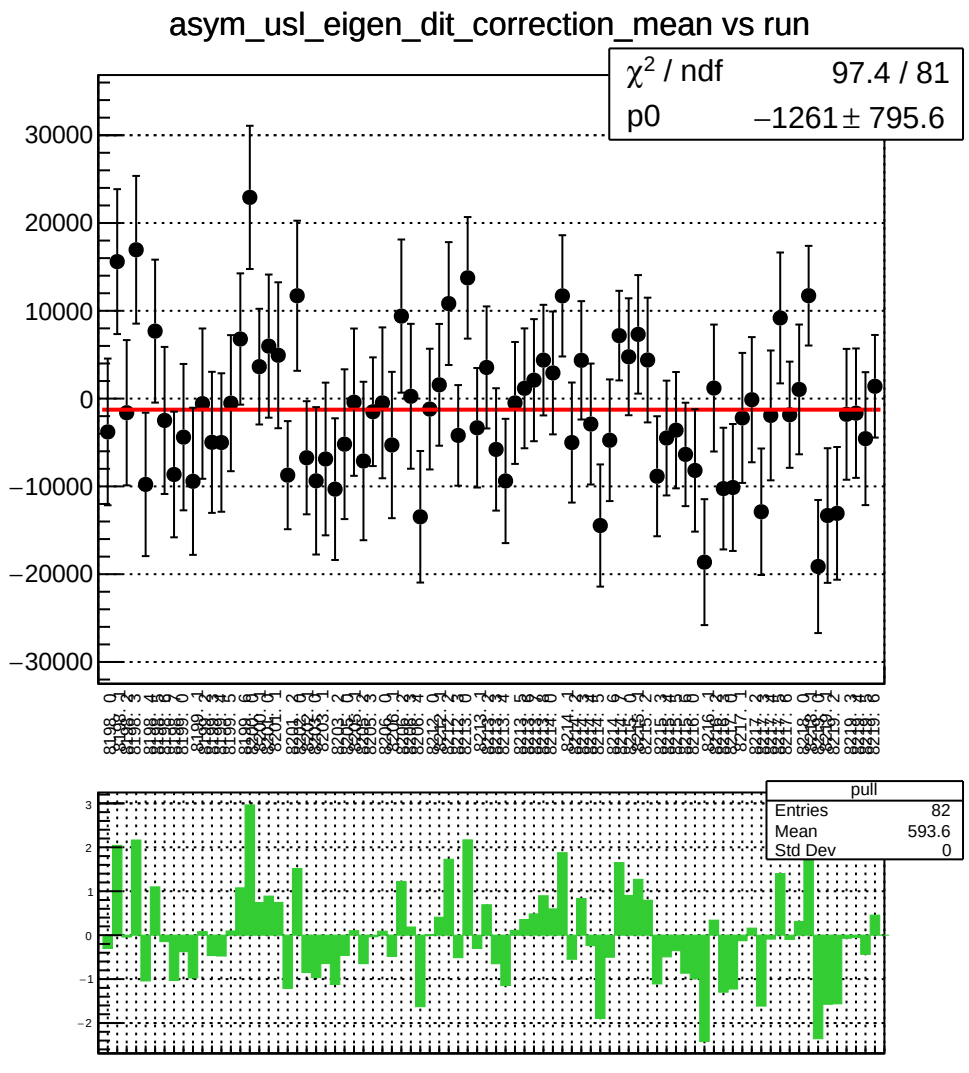

pull1D
Entries 82
Mean −0.008345
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

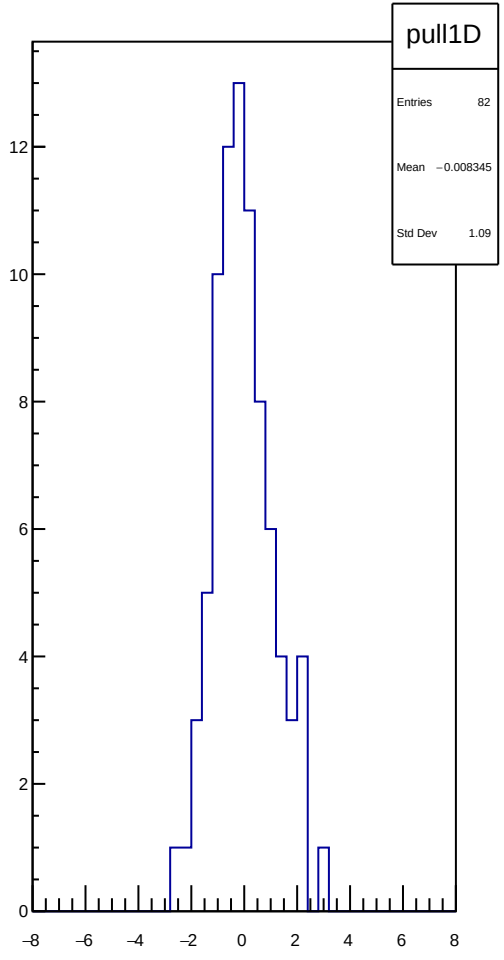

asym_usl_dit_correction_rms vs run
χ² / ndf 1.285e+04 / 81
p0 713.5 ± 0.5626
850
800
750
700
650
600

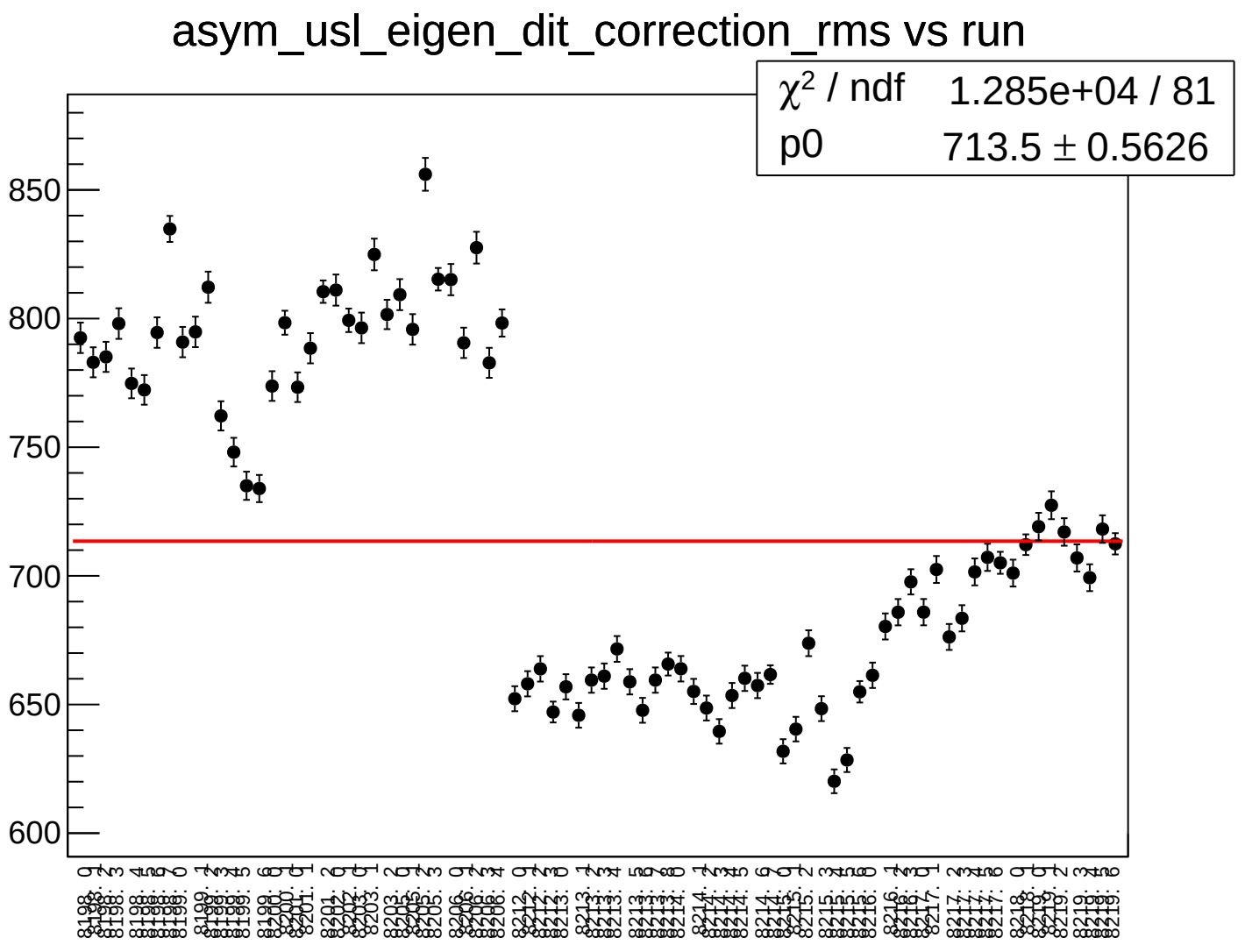

eigen_dit_asym_usl_mean vs run
χ² / ndf 75.53 / 81
p0 1822 ± 1199
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −358.7
Std Dev 0
2
1
0
−1
−2

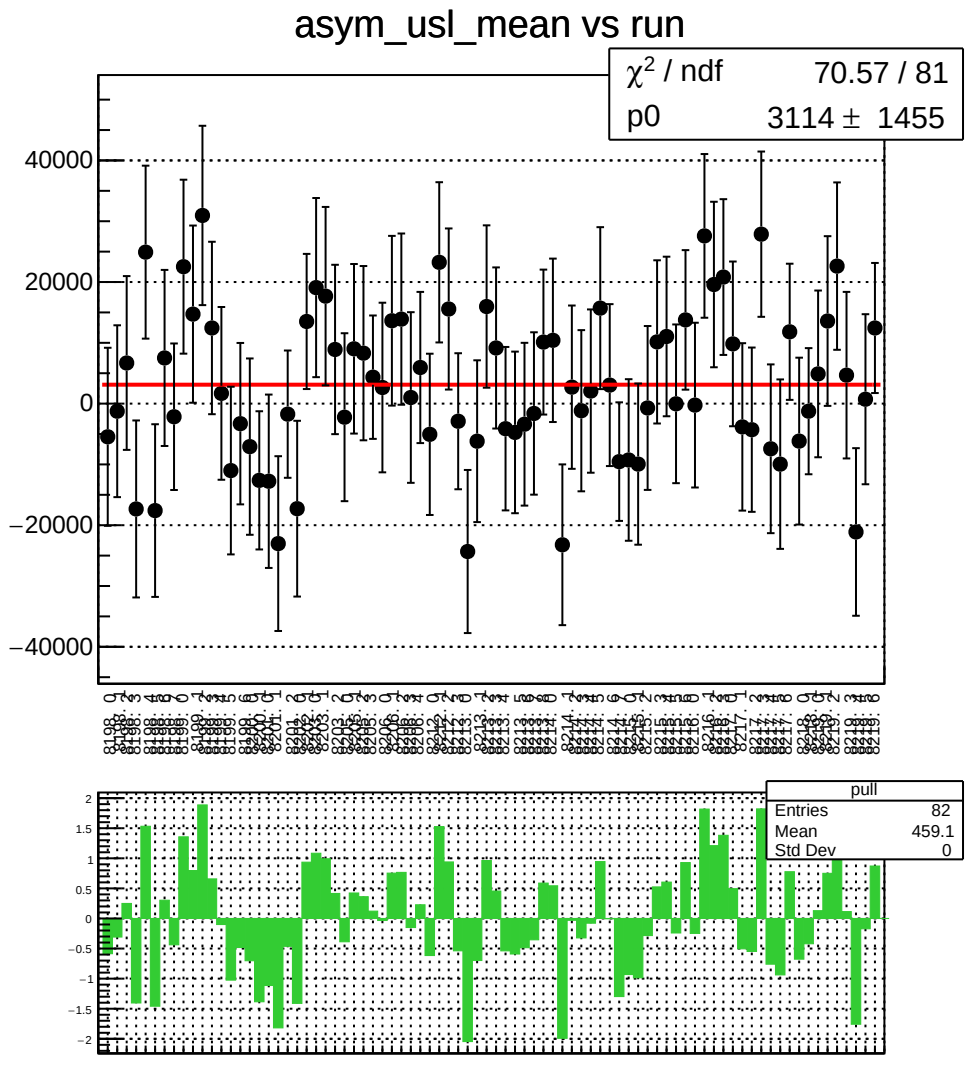

pull1D
Entries 82
Mean 0.002273
Std Dev 0.9597
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

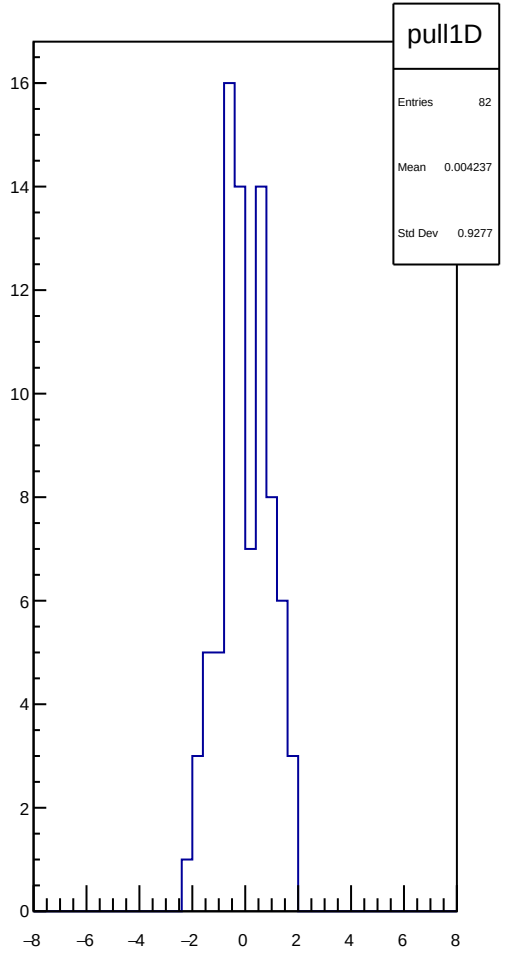

eigen_dit_asym_usl_rms vs run
χ² / ndf 98.68 / 81
p0 1079 ± 0.8478
1110
1100
1090
1080
1070
1060

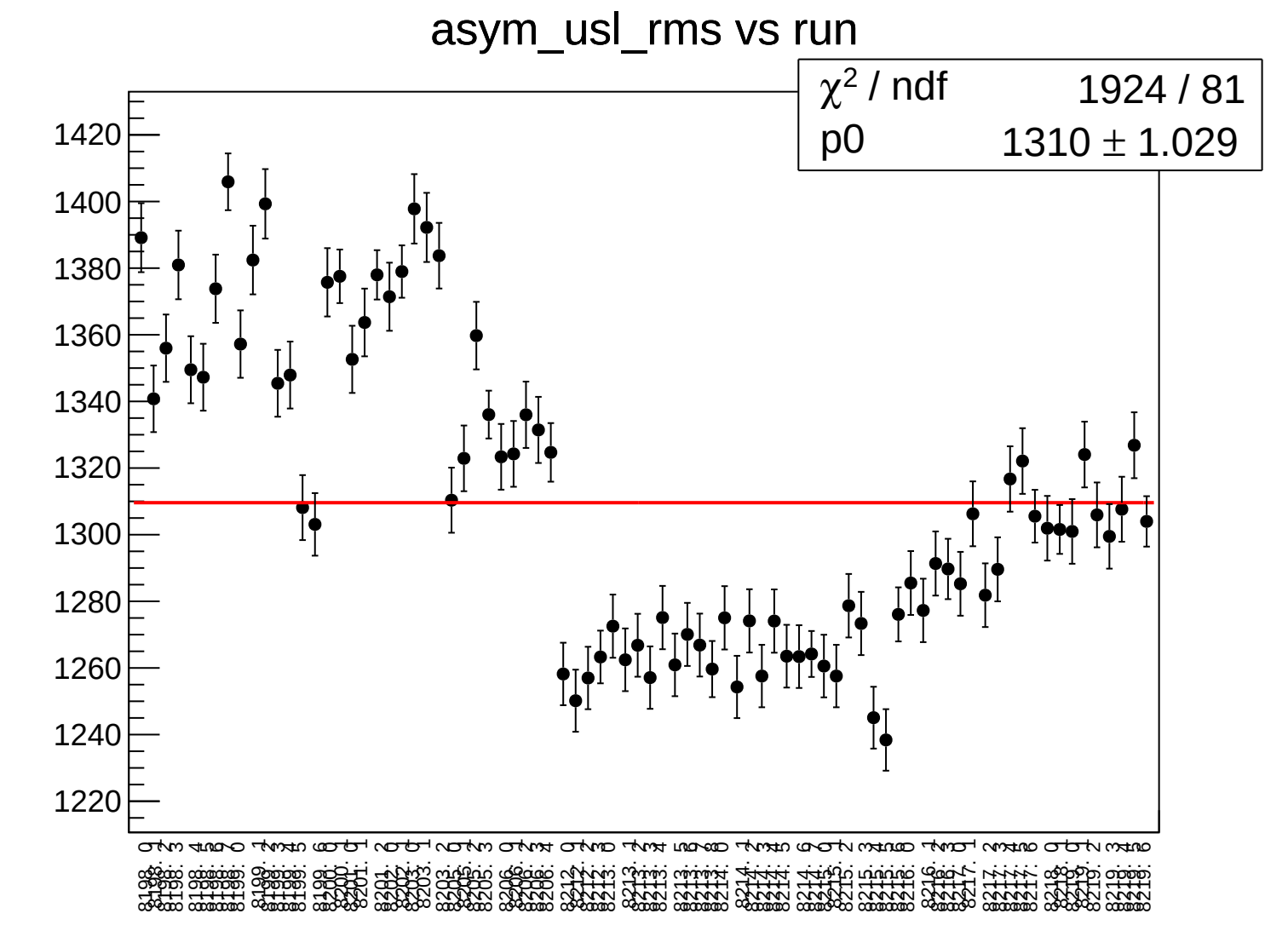

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 97.4 / 81
p0 −1261 ± 795.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 593.6
Std Dev 0
3
2
1
0
−1
−2

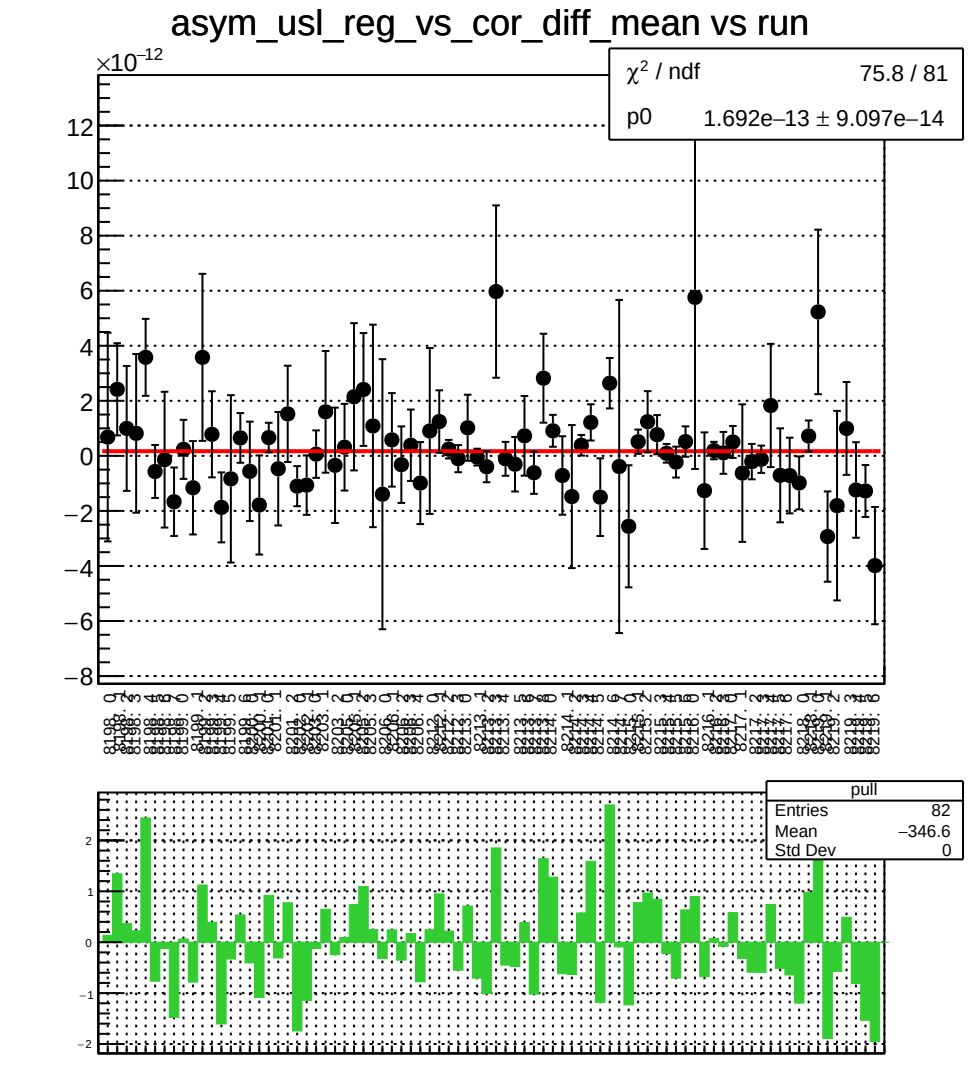

pull1D
Entries 82
Mean −0.008345
Std Dev 1.09
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

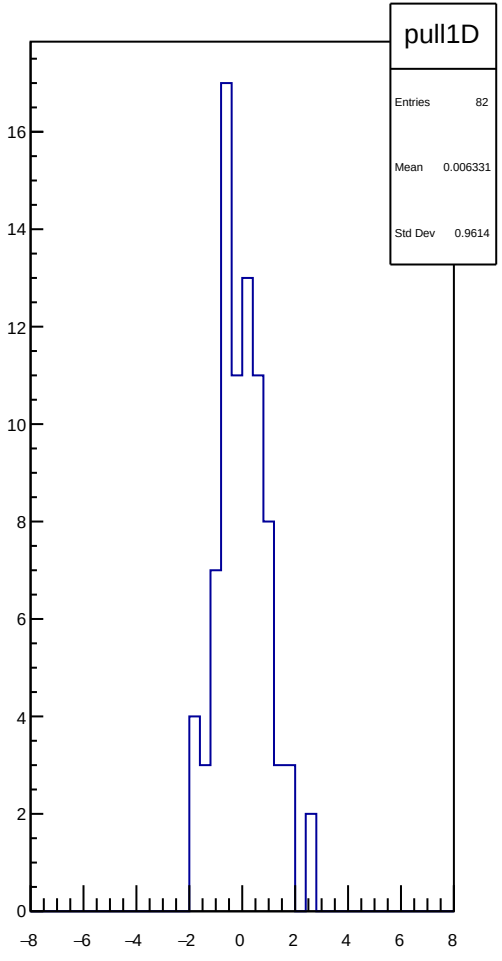

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1.285e+04 / 81
p0 713.5 ± 0.5626
850
800
750
700
650
600

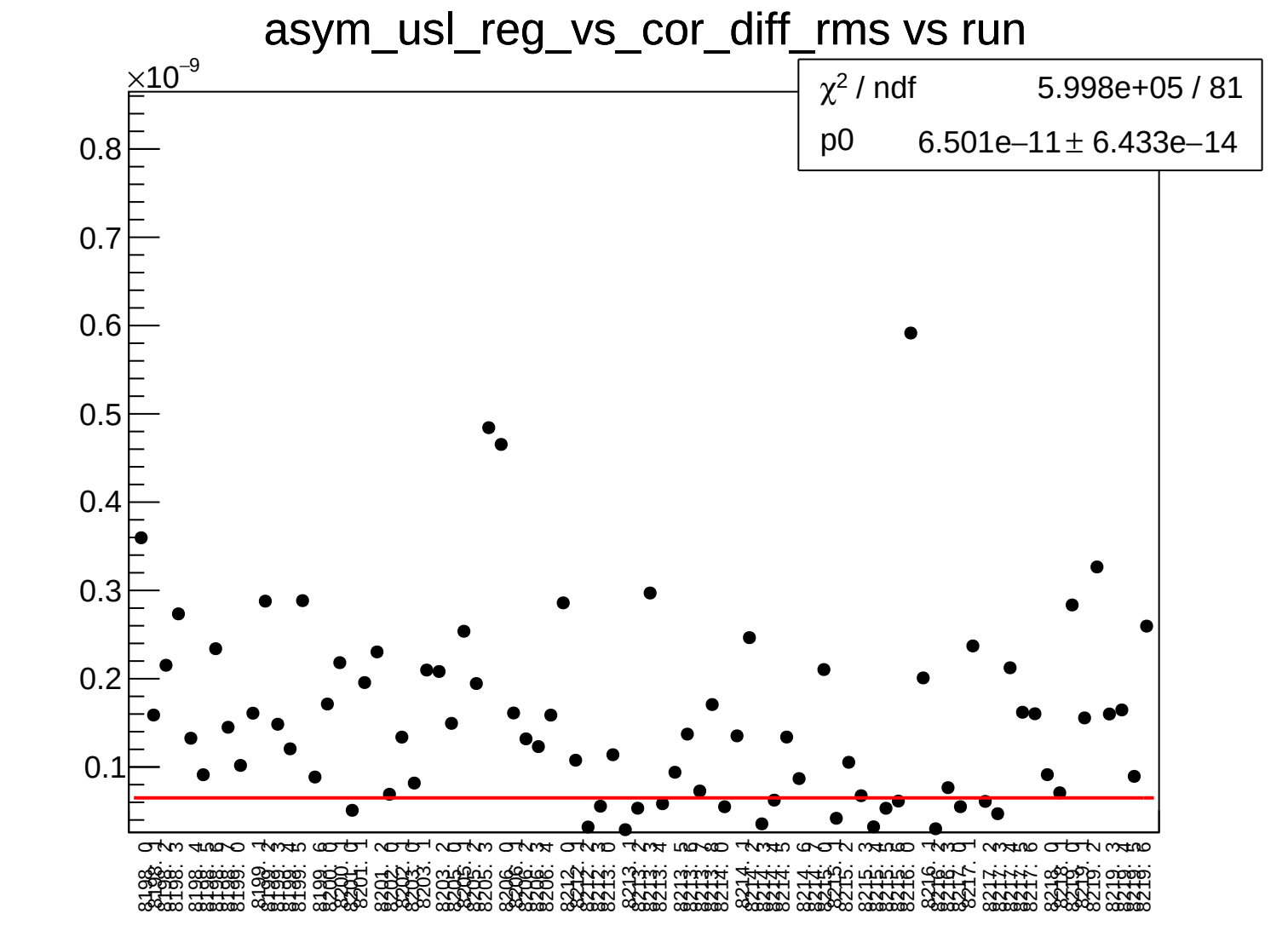

asym_usl_mean vs run
χ² / ndf 70.57 / 81
p0 3114 ± 1455
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 459.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

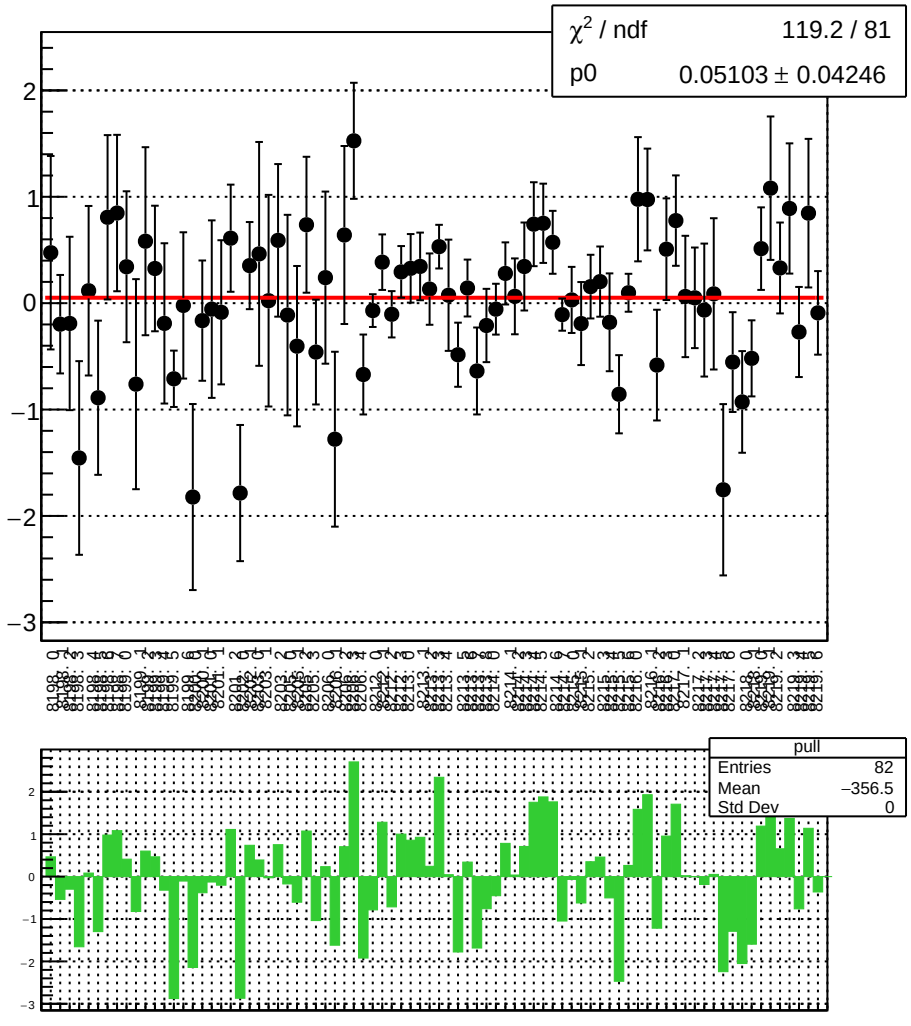

pull1D
Entries 82
Mean 0.004237
Std Dev 0.9277
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

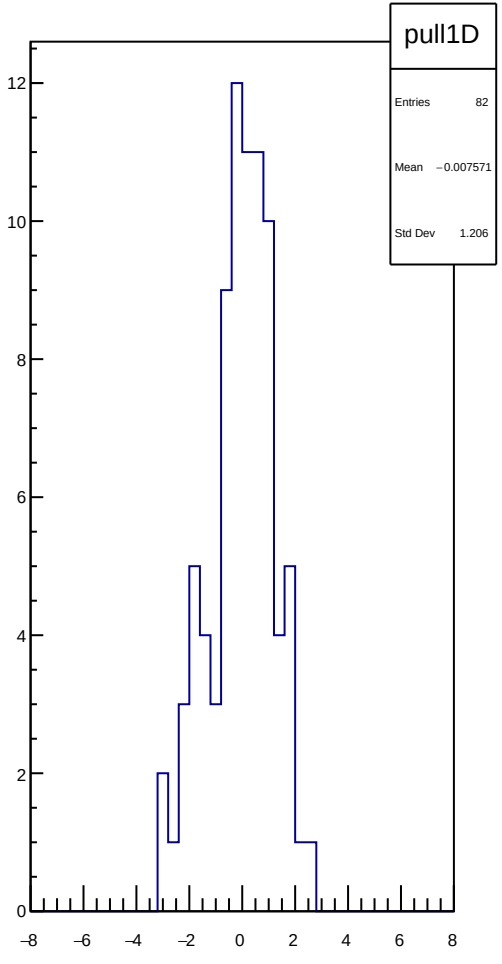

asym_usl_rms vs run
χ² / ndf 1924 / 81
p0 1310 ± 1.029
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

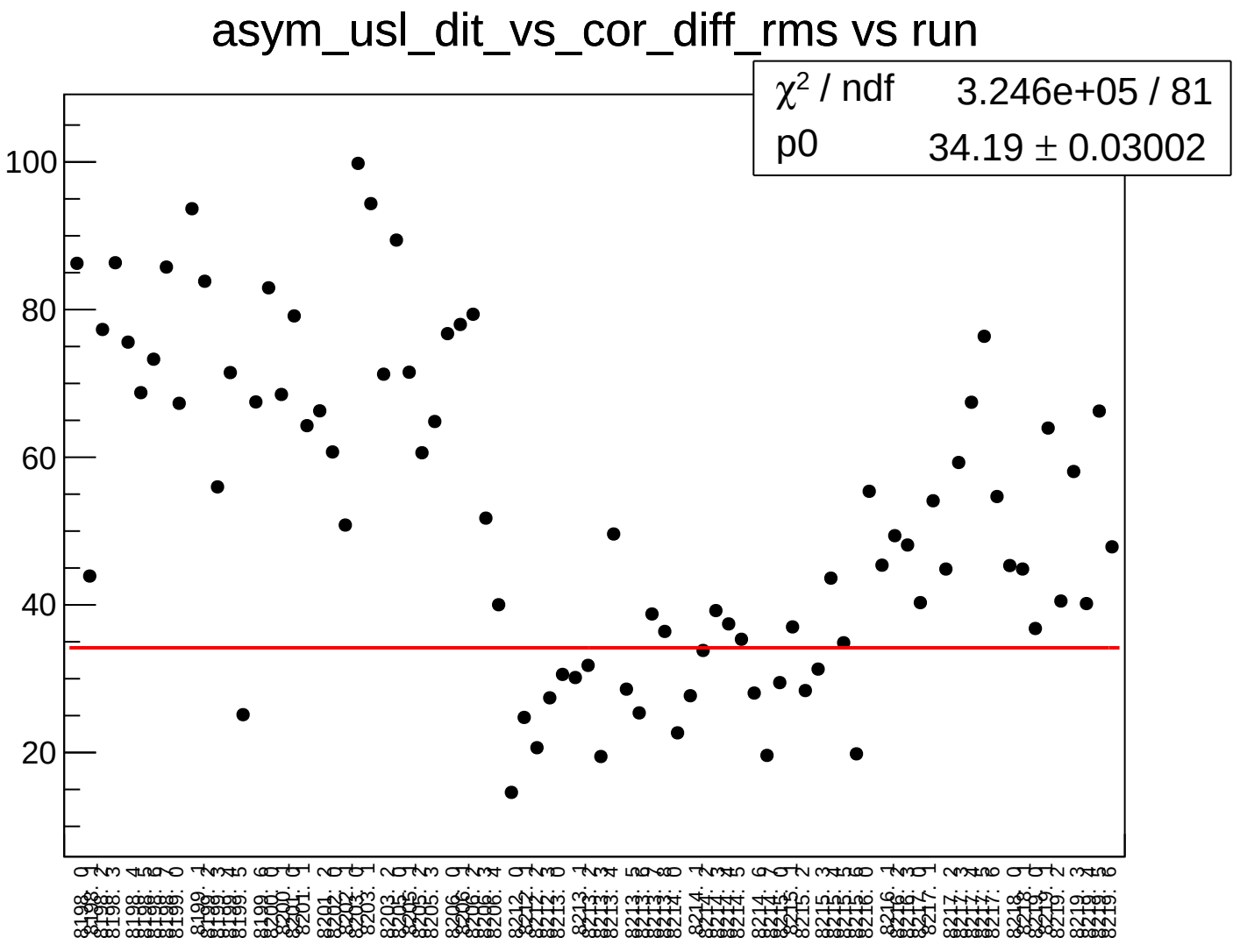

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.8 / 81
p0 1.692e−13 ± 9.097e−14
pull
Entries 82
Mean −346.6
Std Dev 0

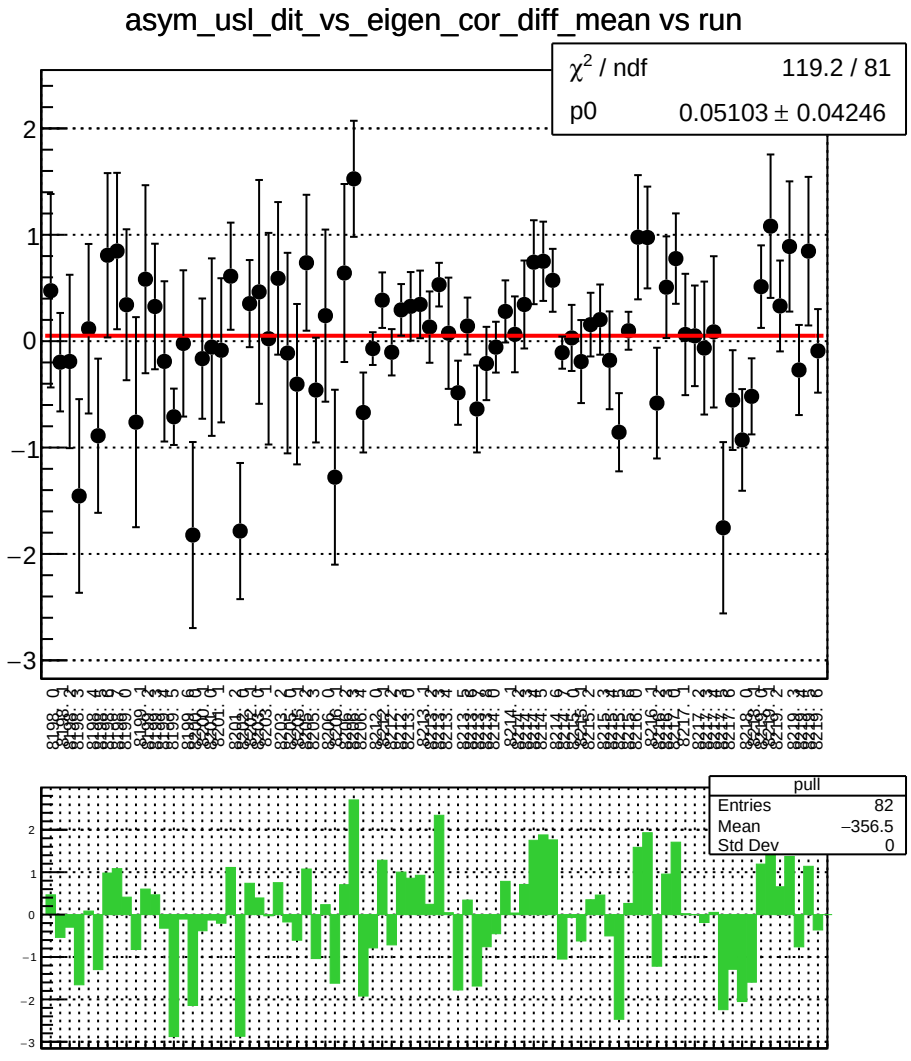

pull1D
Entries 82
Mean 0.006331
Std Dev 0.9614

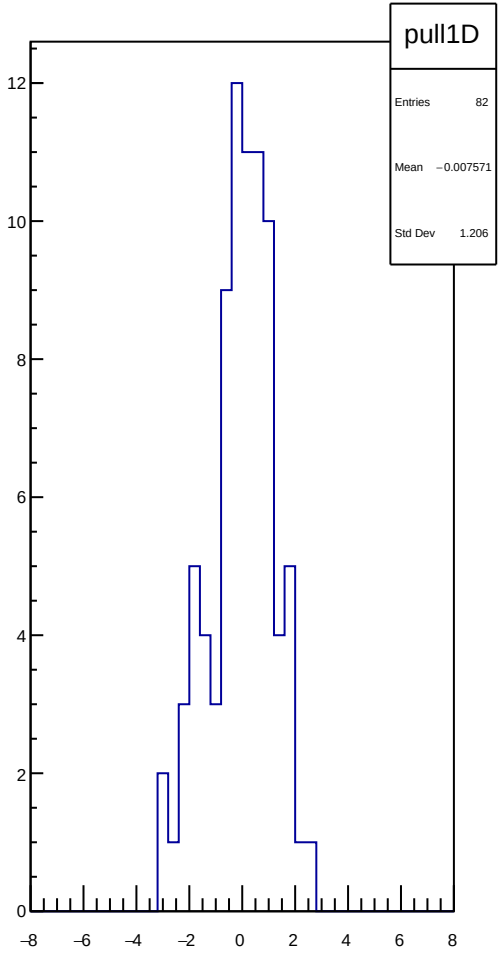

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.998e+05 / 81
p0 6.501e−11 ± 6.433e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

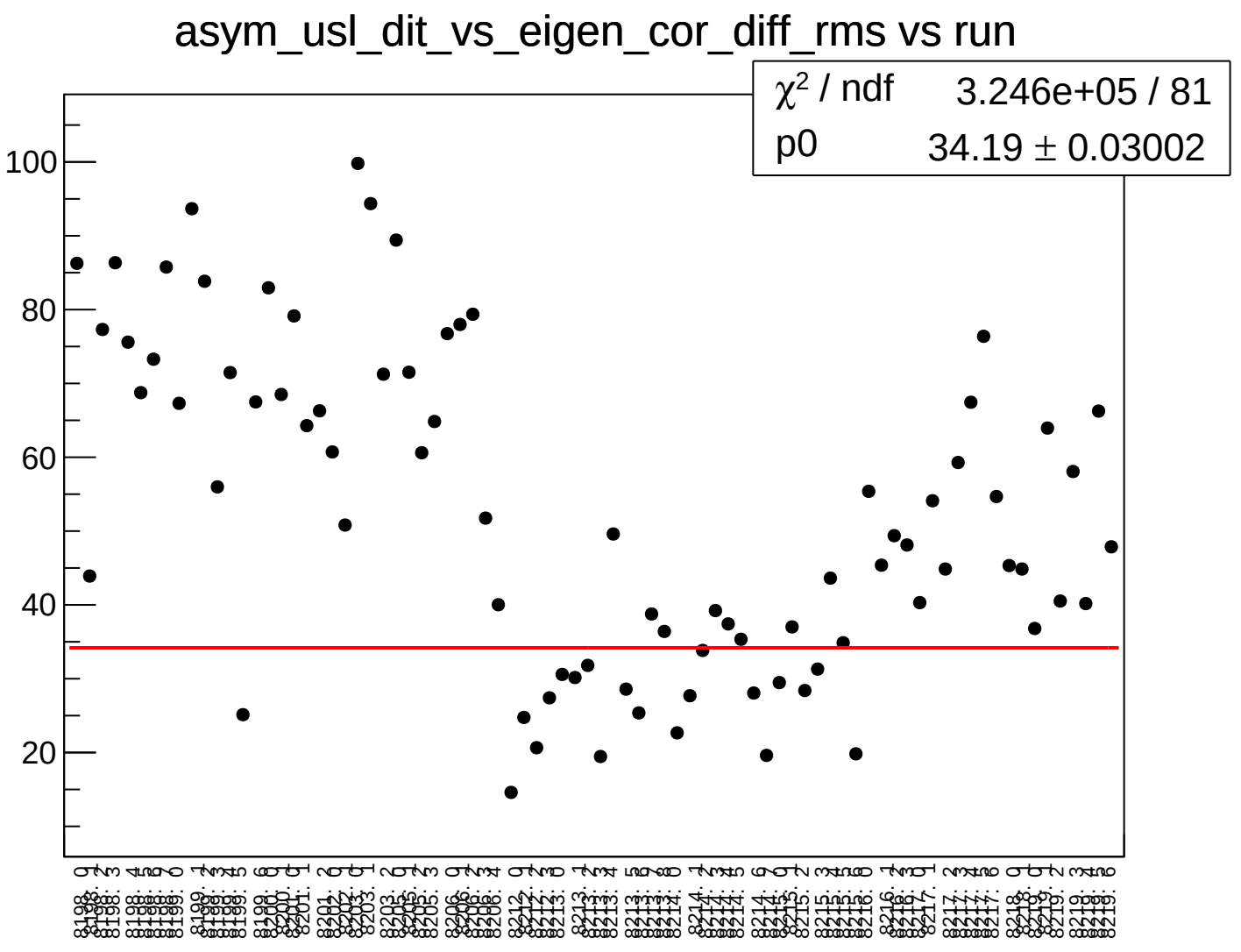

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 119.2 / 81
p0 0.05103 ± 0.04246
pull
Entries 82
Mean −356.5
Std Dev 0

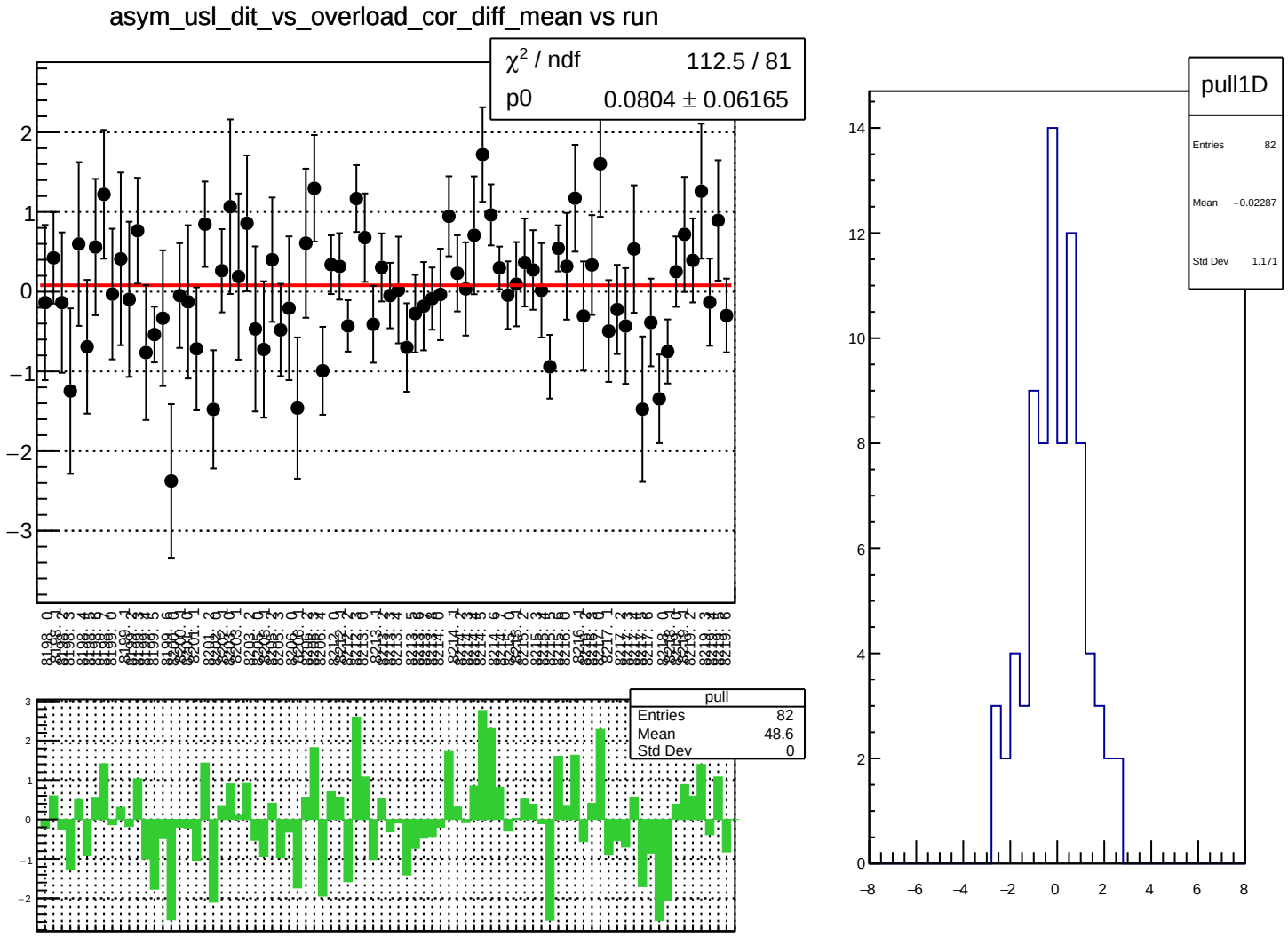

pull1D
Entries 82
Mean −0.007571
Std Dev 1.206

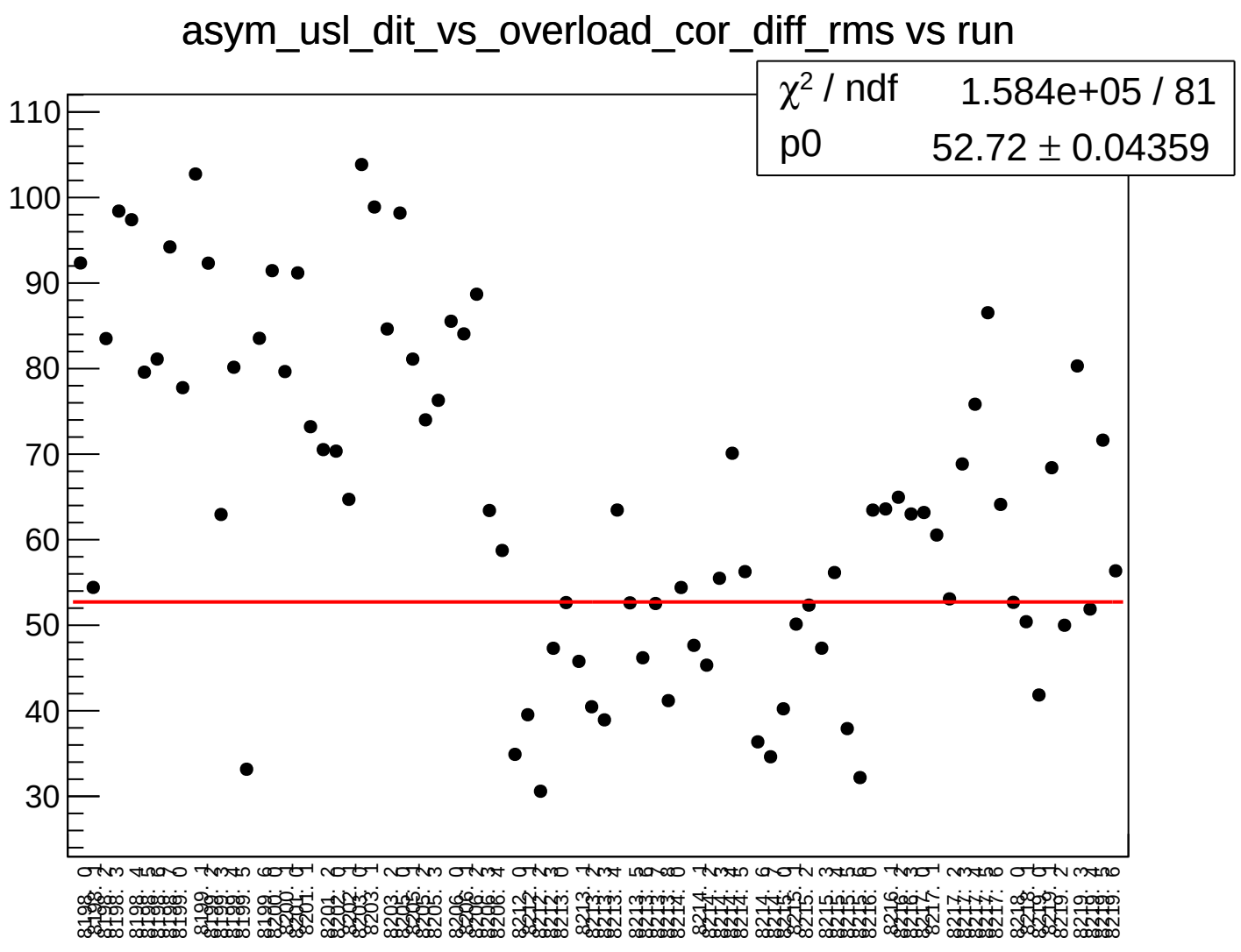

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 3.246e+05 / 81
p0 34.19 ± 0.03002
100
80
60
40
20

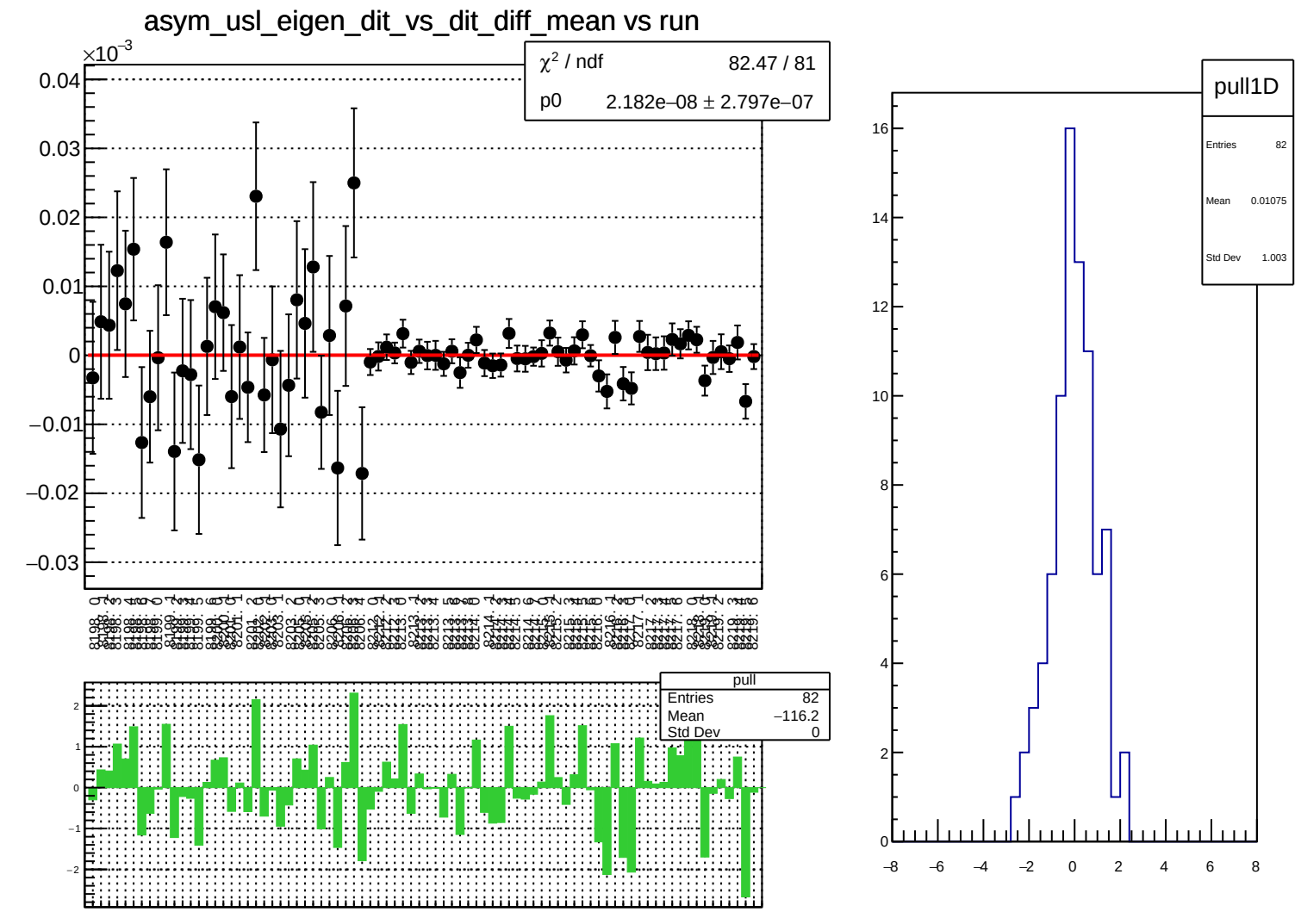

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.2 / 81
p0 0.05103 ± 0.04246
pull
Entries 82
Mean −356.5
Std Dev 0

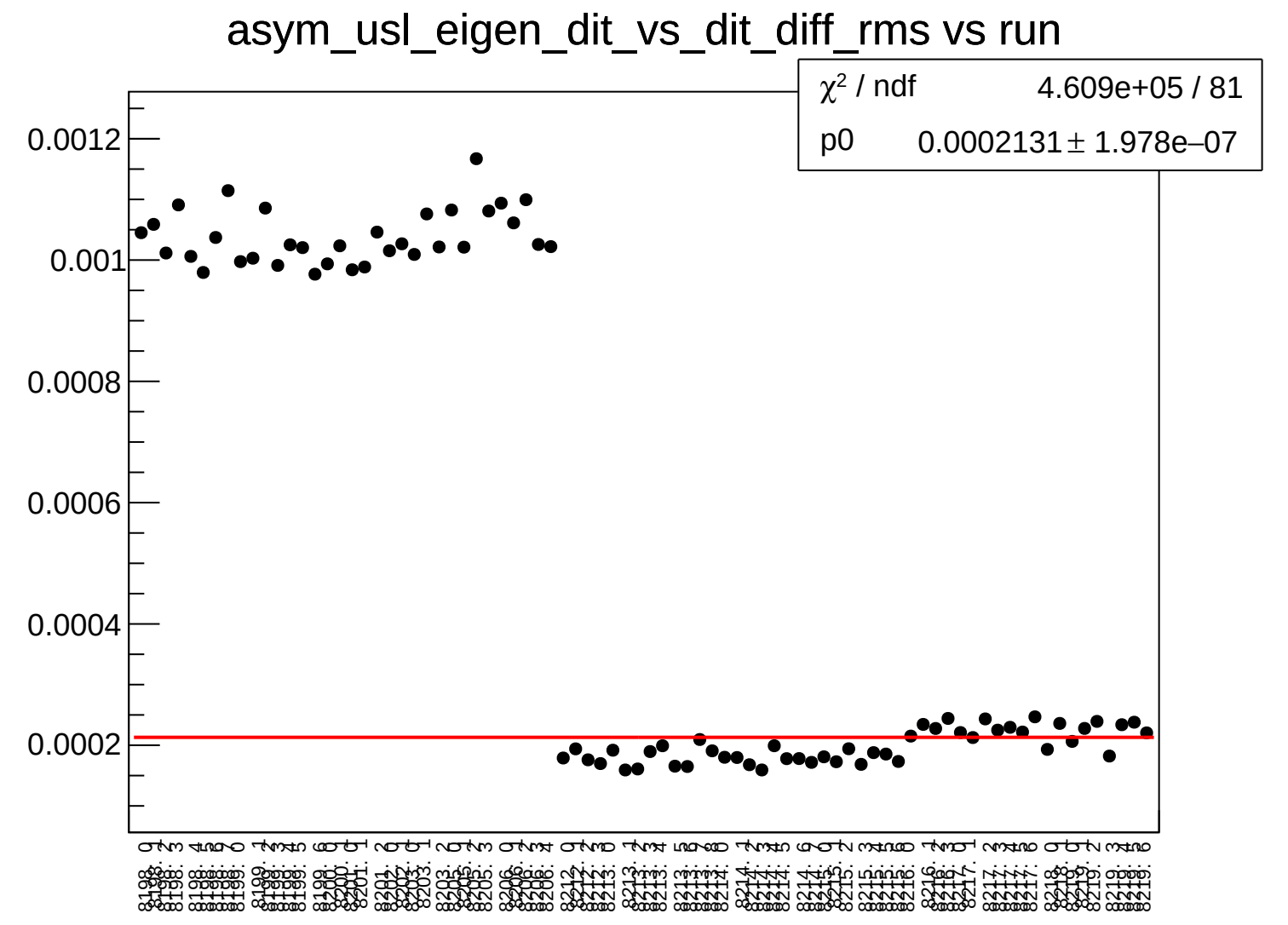

pull1D
Entries 82
Mean −0.007571
Std Dev 1.206

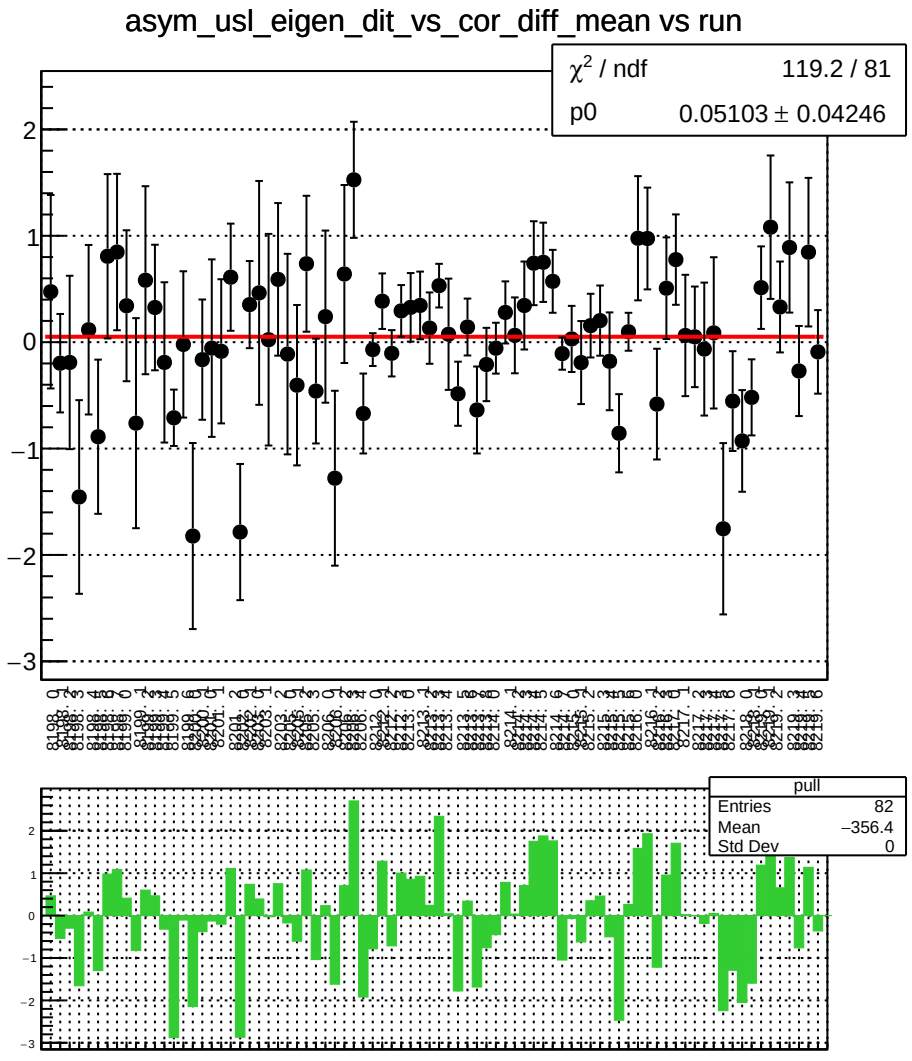

asym_usl_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 3.246e+05 / 81
p0 34.19 ± 0.03002
100
80
60
40
20

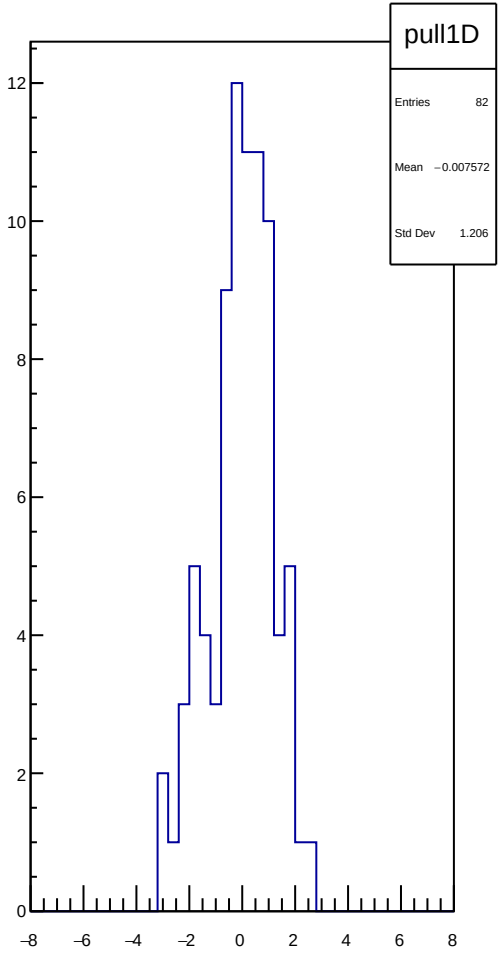

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 112.5 / 81
p0 0.0804 ± 0.06165
pull
Entries 82
Mean −48.6
Std Dev 0
pull1D
Entries 82
Mean −0.02287
Std Dev 1.171

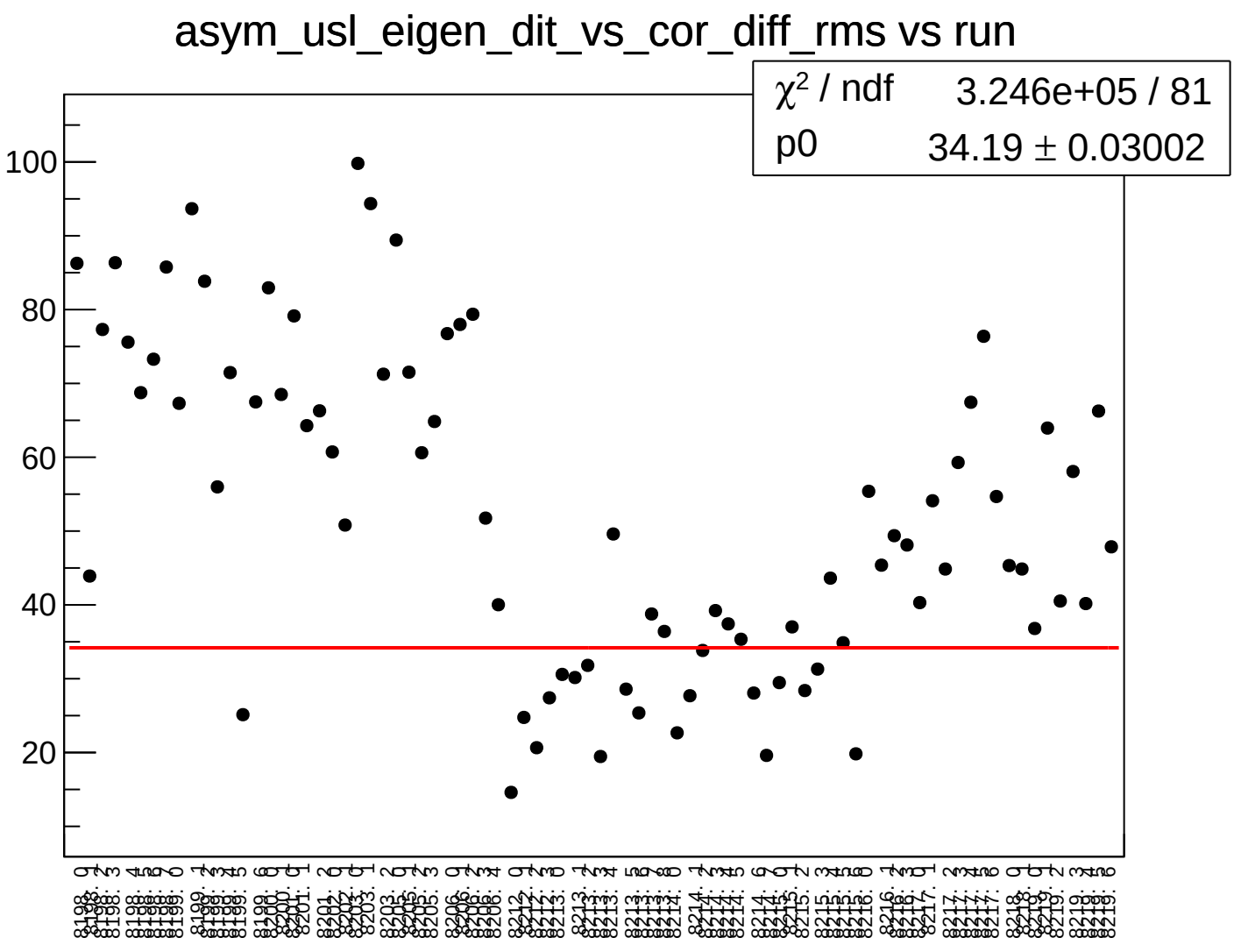

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.584e+05 / 81
p0 52.72 ± 0.04359
110
100
90
80
70
60
50
40
30

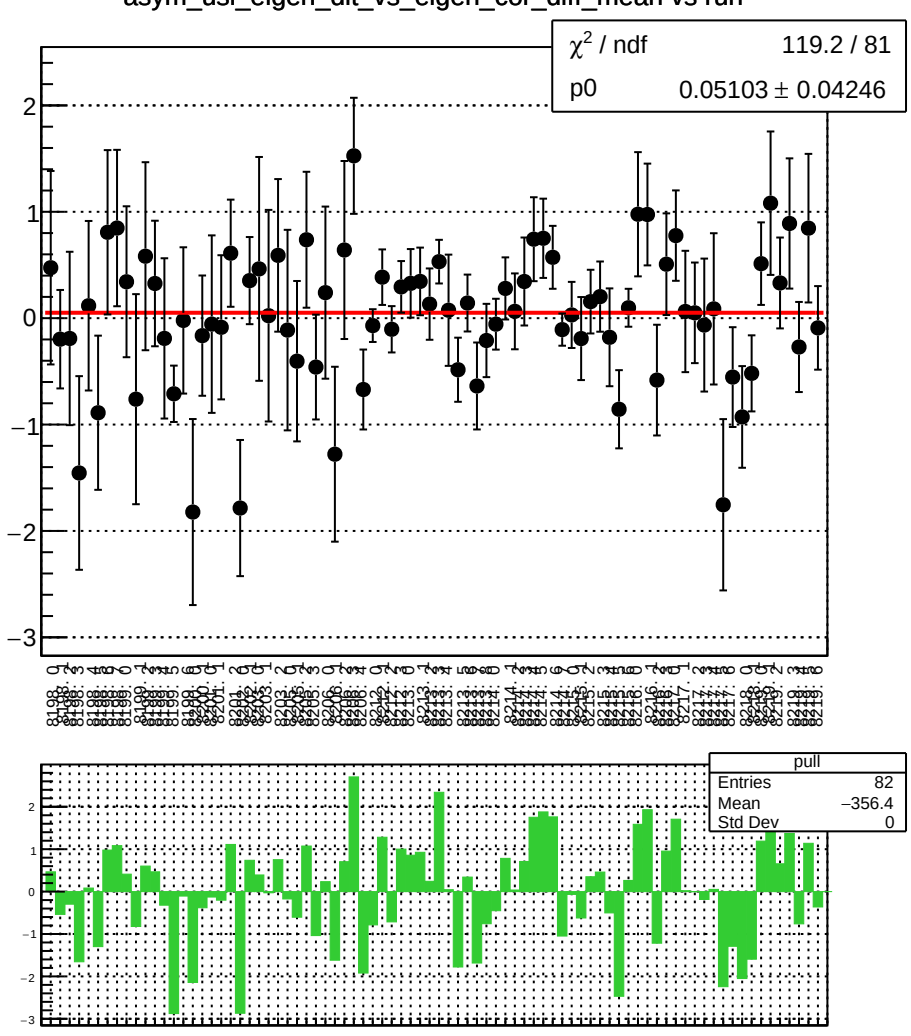

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.47 / 81
p0 2.182e−08 ± 2.797e−07
pull
Entries 82
Mean −116.2
Std Dev 0
pull1D
Entries 82
Mean 0.01075
Std Dev 1.003

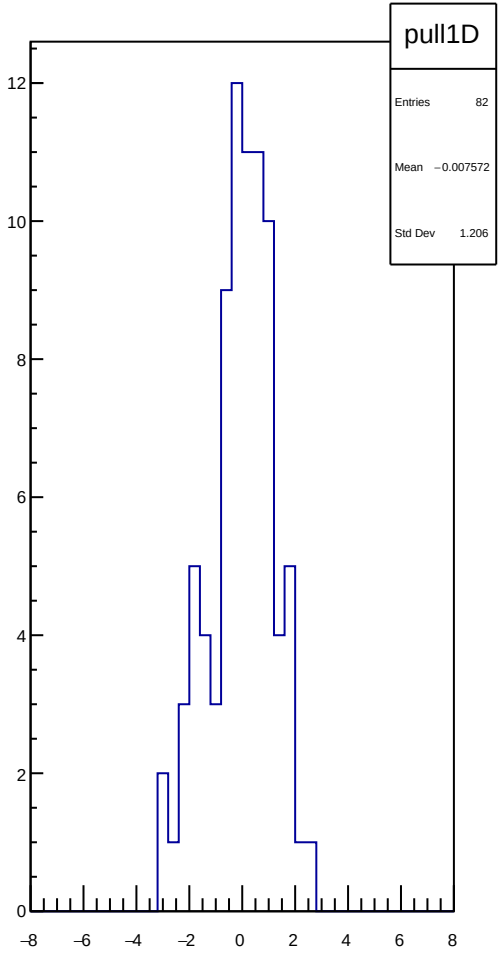

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.609e+05 / 81
p0 0.0002131 ± 1.978e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

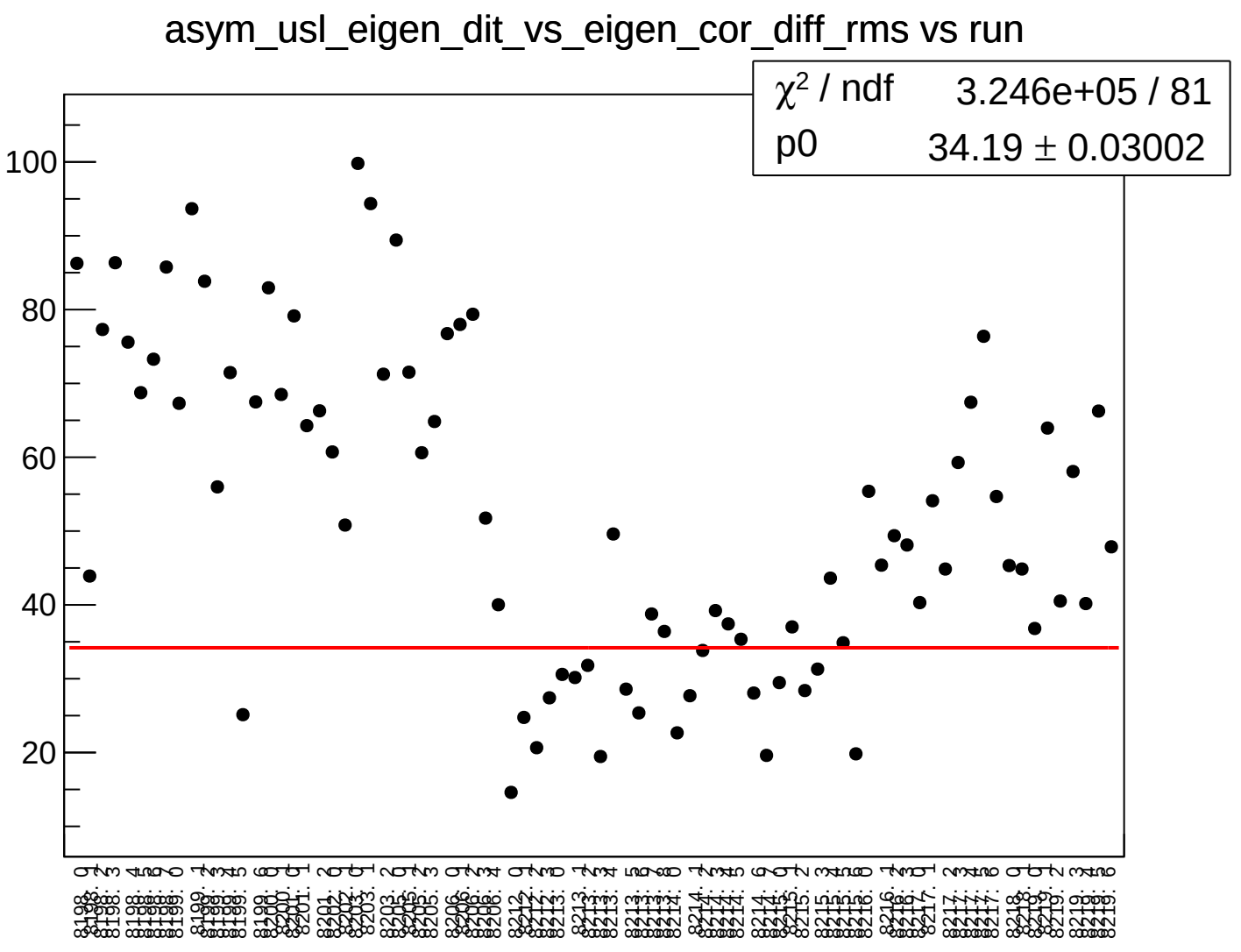

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.2 / 81
p0 0.05103 ± 0.04246
pull
Entries 82
Mean −356.4
Std Dev 0

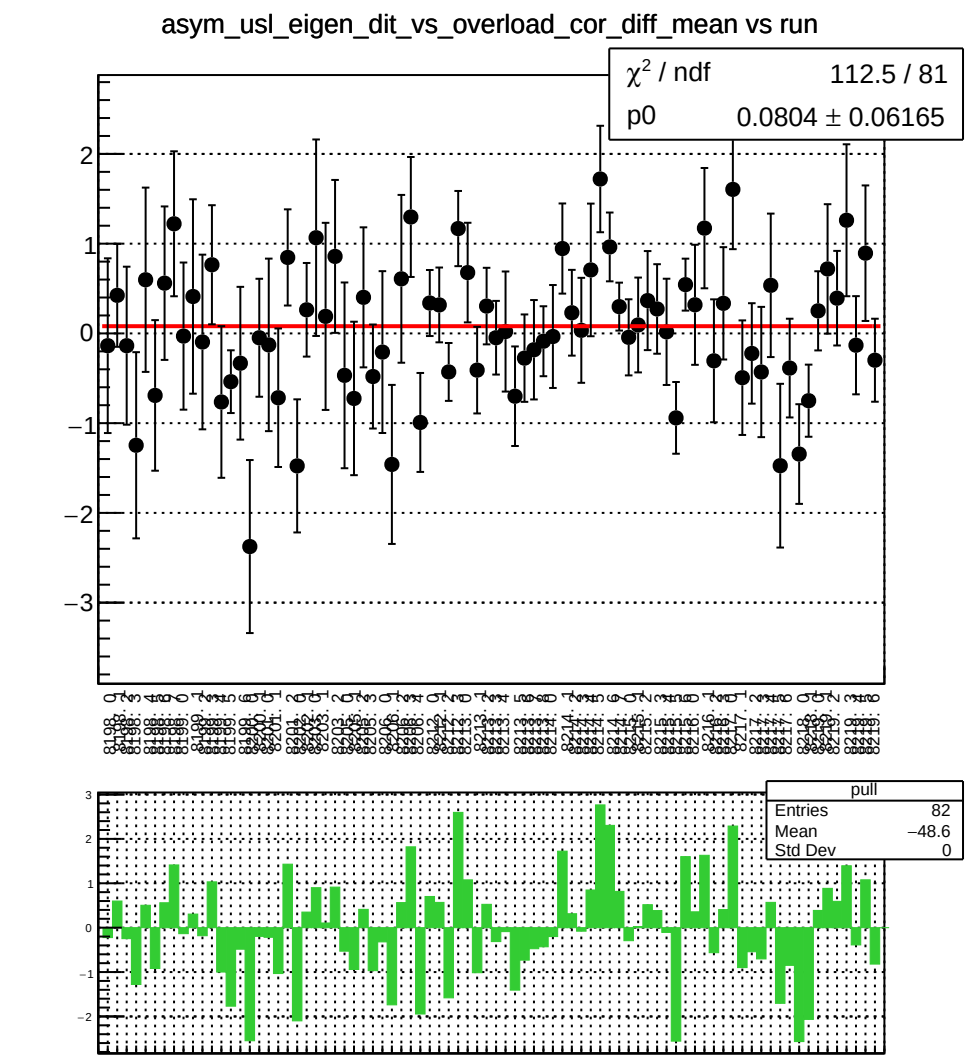

pull1D
Entries 82
Mean −0.007572
Std Dev 1.206

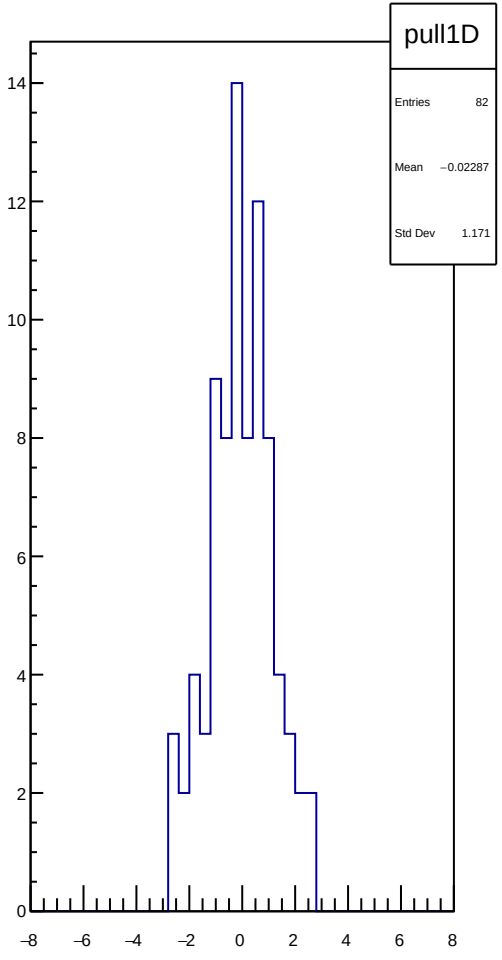

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.246e+05 / 81
p0 34.19 ± 0.03002
100
80
60
40
20

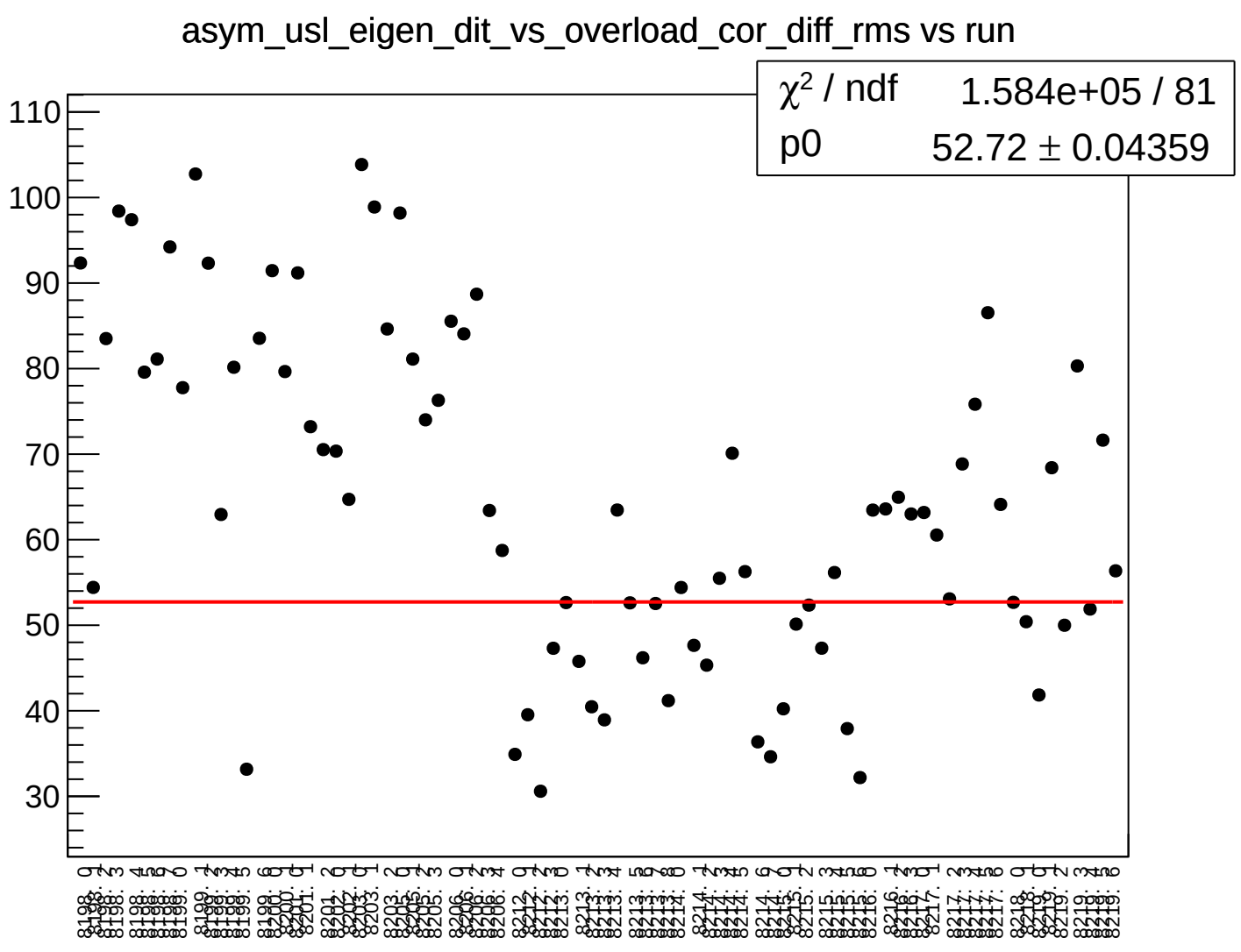

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.2 / 81
p0 0.05103 ± 0.04246
pull
Entries 82
Mean −356.4
Std Dev 0

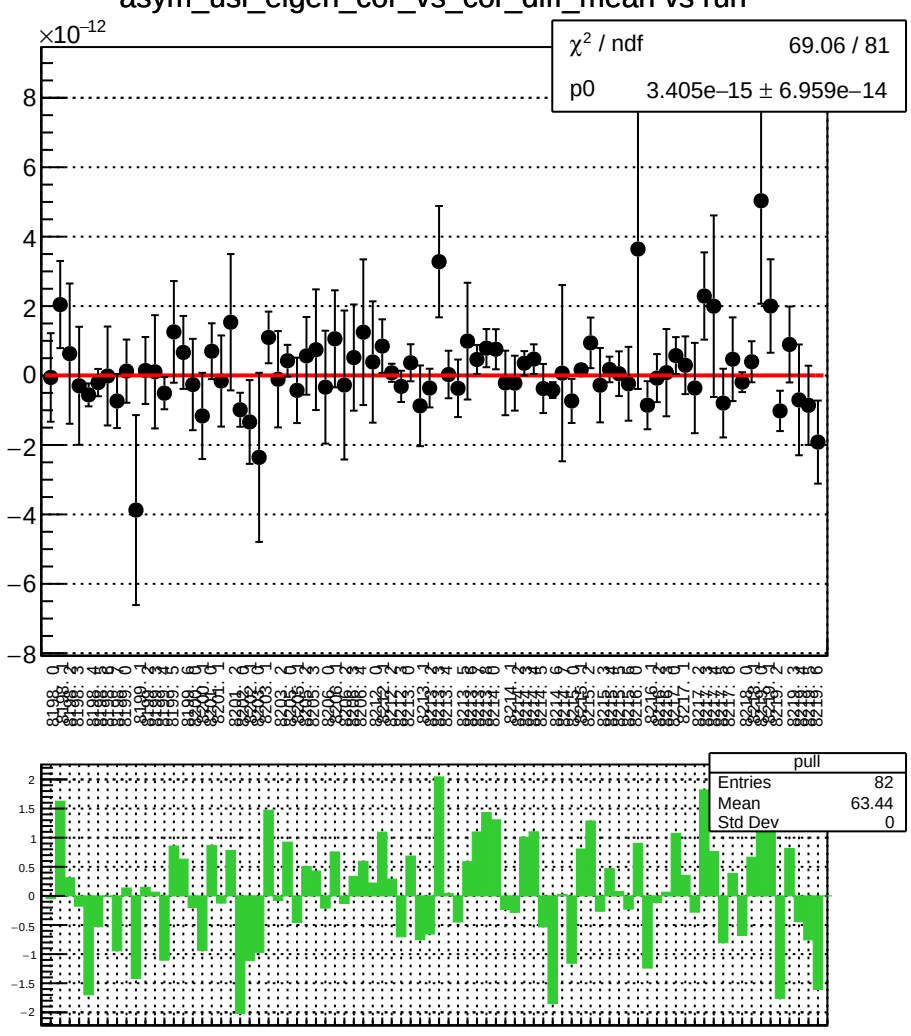

pull1D
Entries 82
Mean −0.007572
Std Dev 1.206

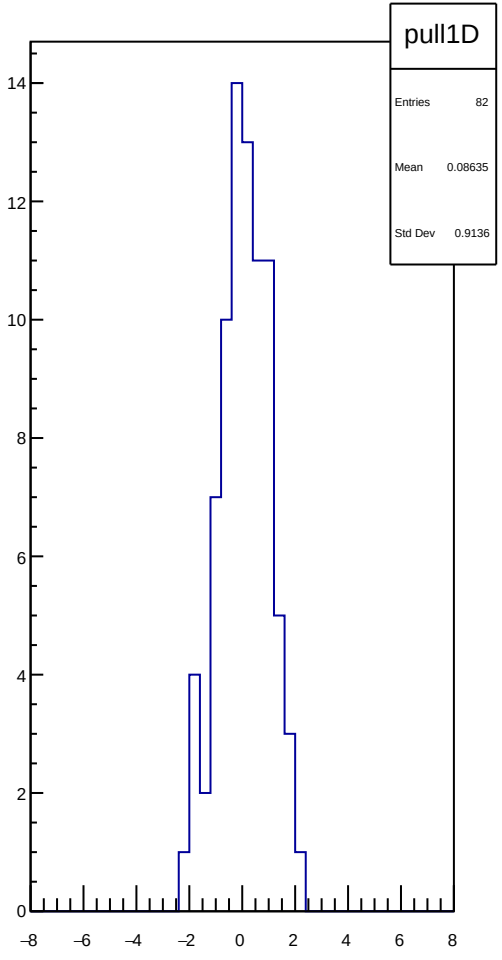

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.246e+05 / 81
p0 34.19 ± 0.03002
100
80
60
40
20

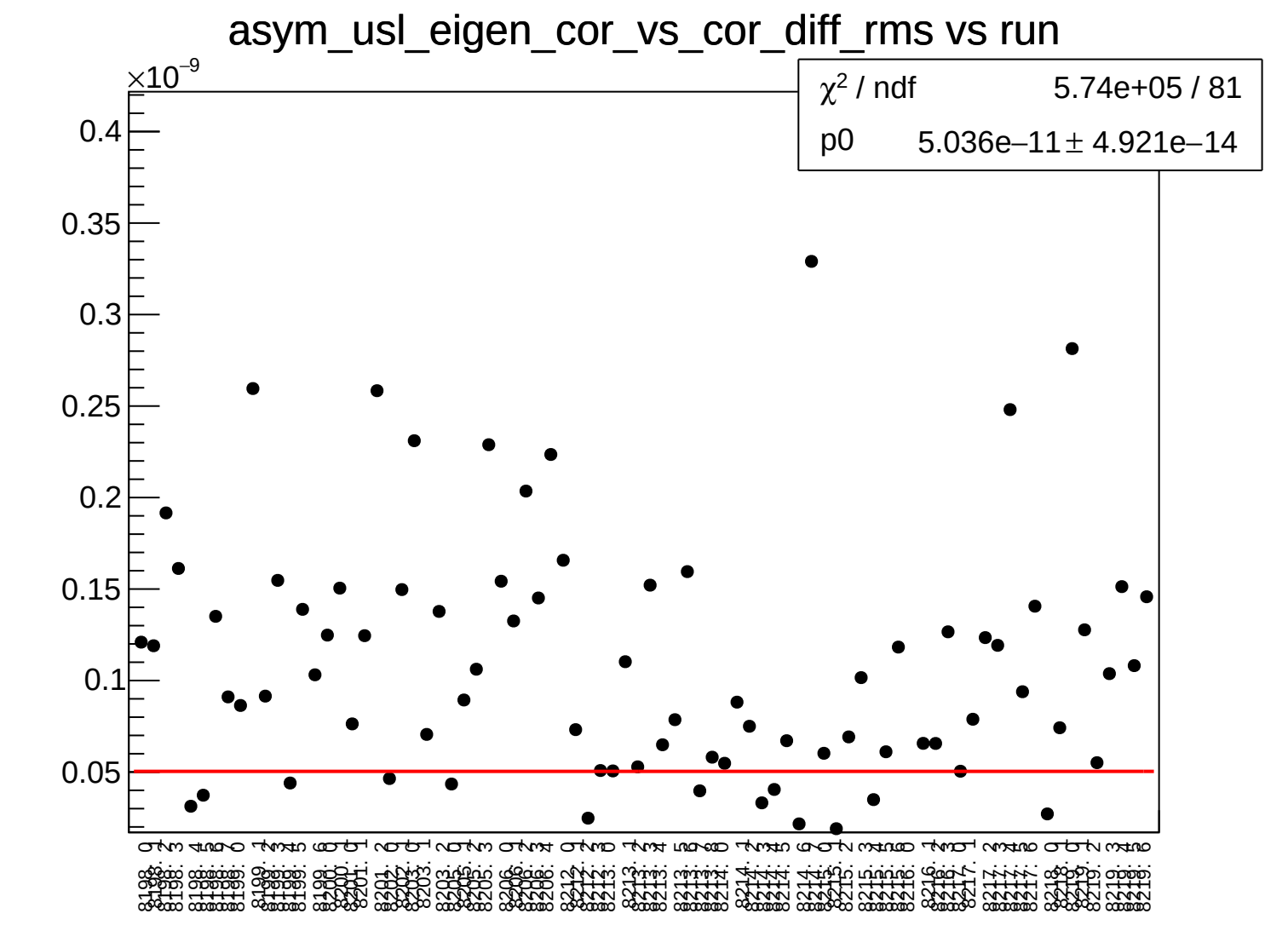

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 112.5 / 81
p0 0.0804 ± 0.06165
pull
Entries 82
Mean −48.6
Std Dev 0

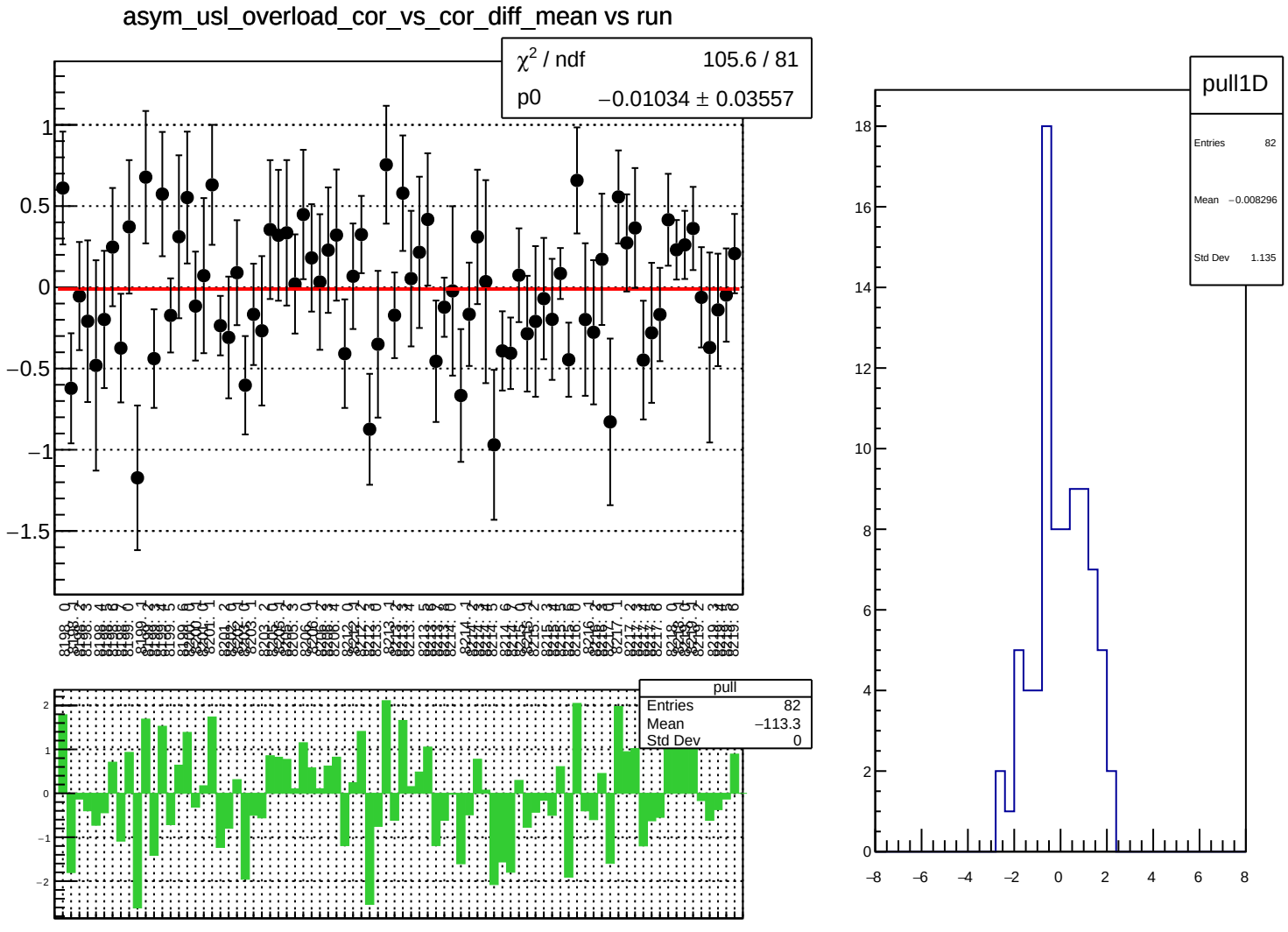

pull1D
Entries 82
Mean −0.02287
Std Dev 1.171

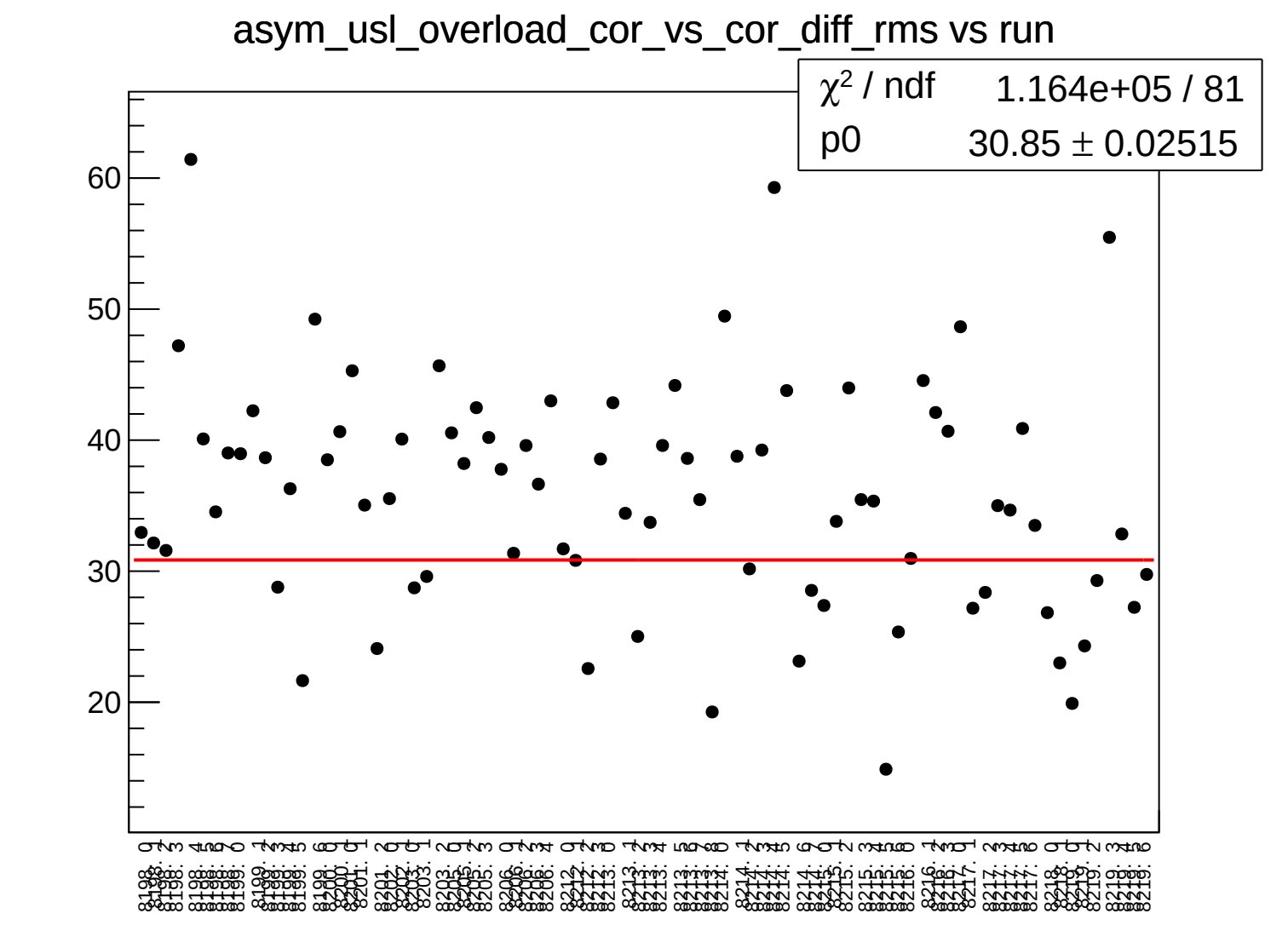

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.584e+05 / 81
p0 52.72 ± 0.04359
110
100
90
80
70
60
50
40
30

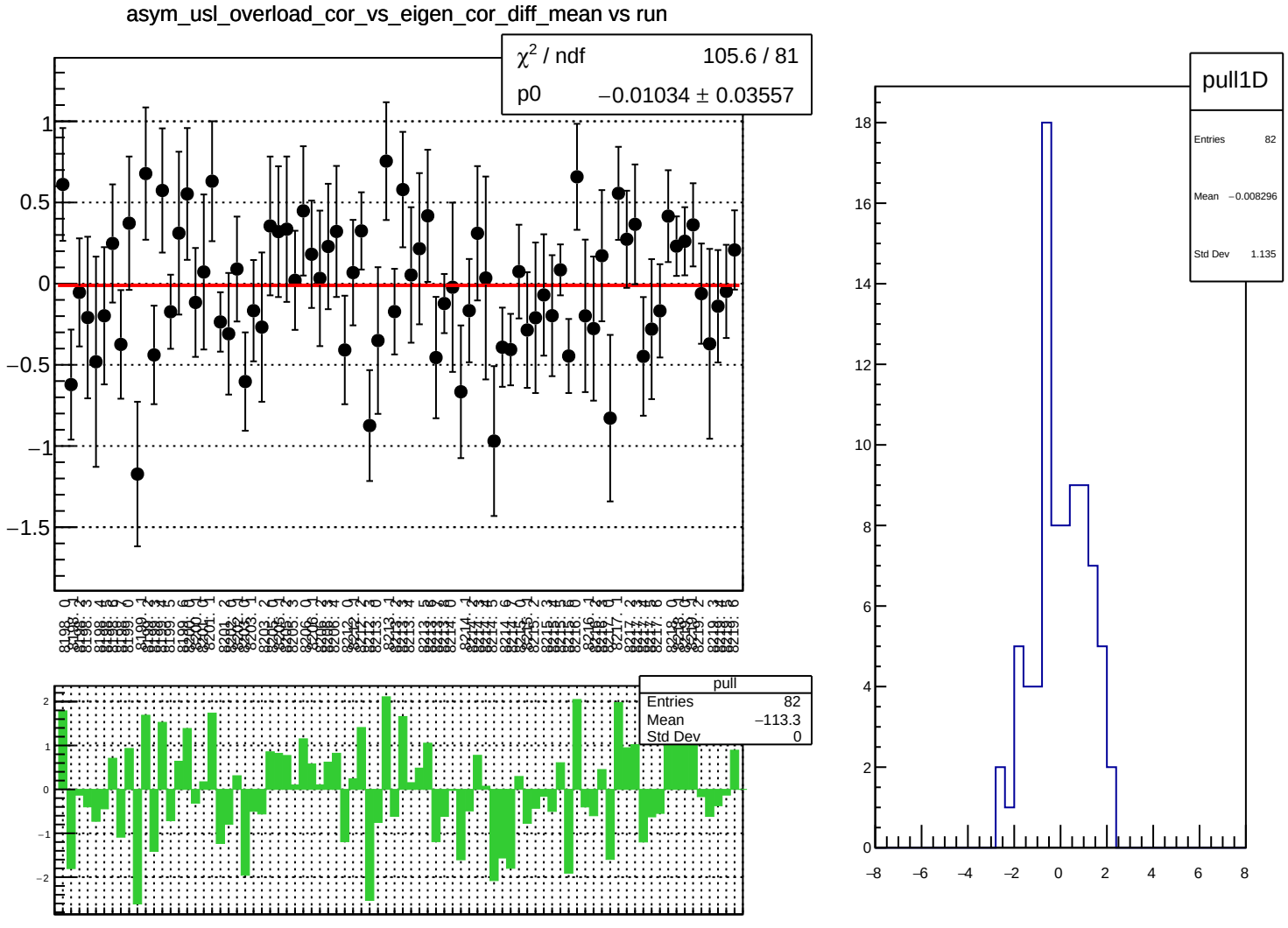

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.06 / 81
p0 3.405e−15 ± 6.959e−14
pull
Entries 82
Mean 63.44
Std Dev 0

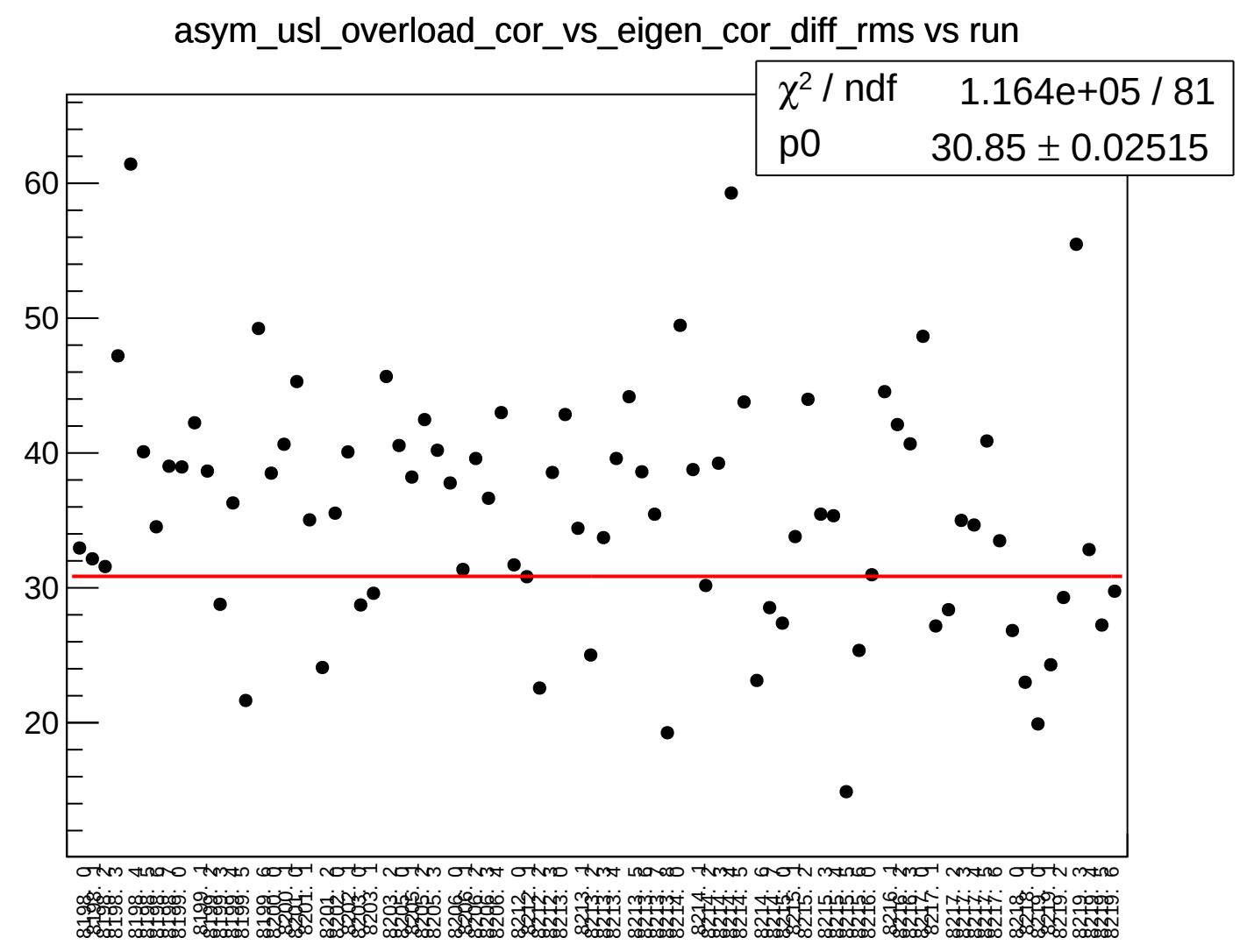

pull1D
Entries 82
Mean 0.08635
Std Dev 0.9136

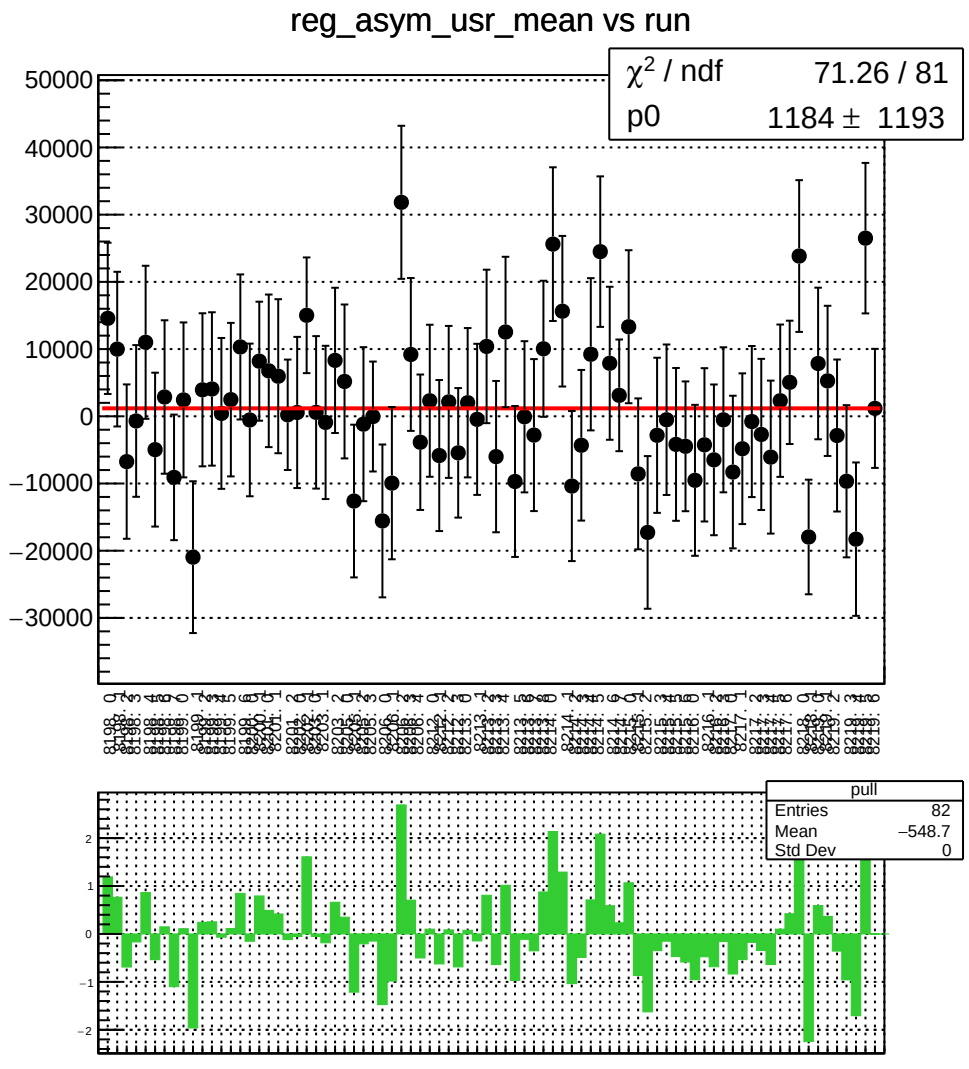

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.74e+05 / 81
p0 5.036e−11 ± 4.921e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

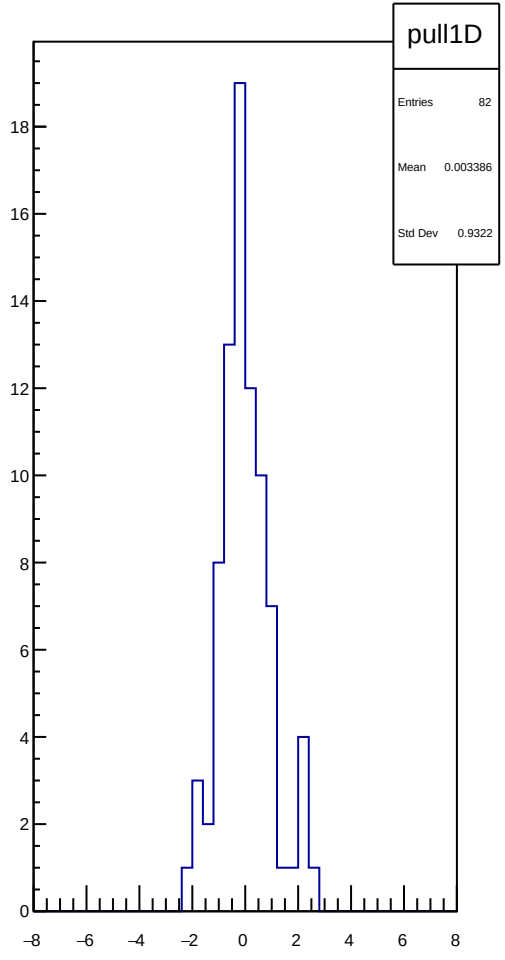

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 81
p0 −0.01034 ± 0.03557
pull
Entries 82
Mean −113.3
Std Dev 0
pull1D
Entries 82
Mean −0.008296
Std Dev 1.135

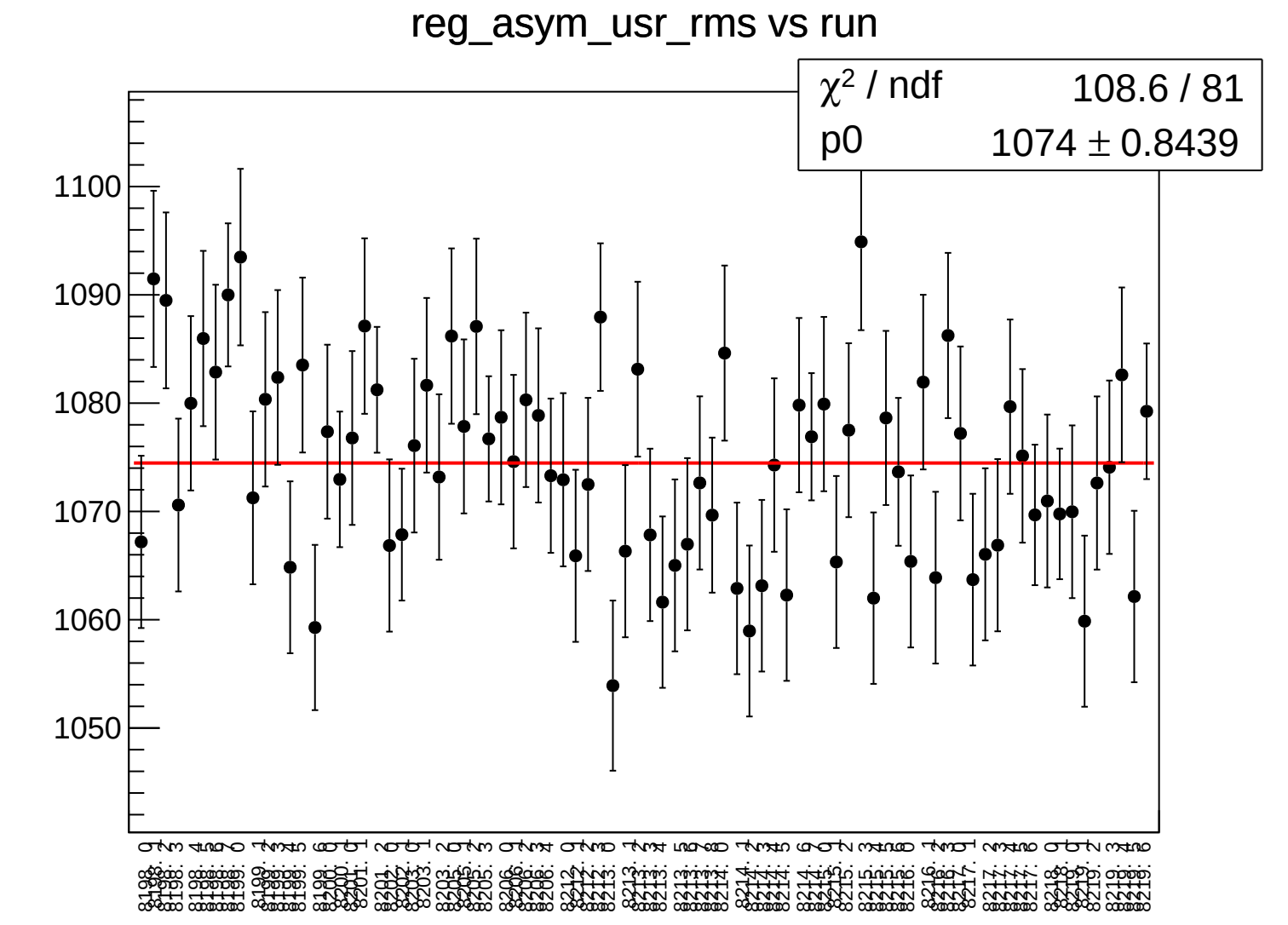

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 81
p0 30.85 ± 0.02515
60
50
40
30
20

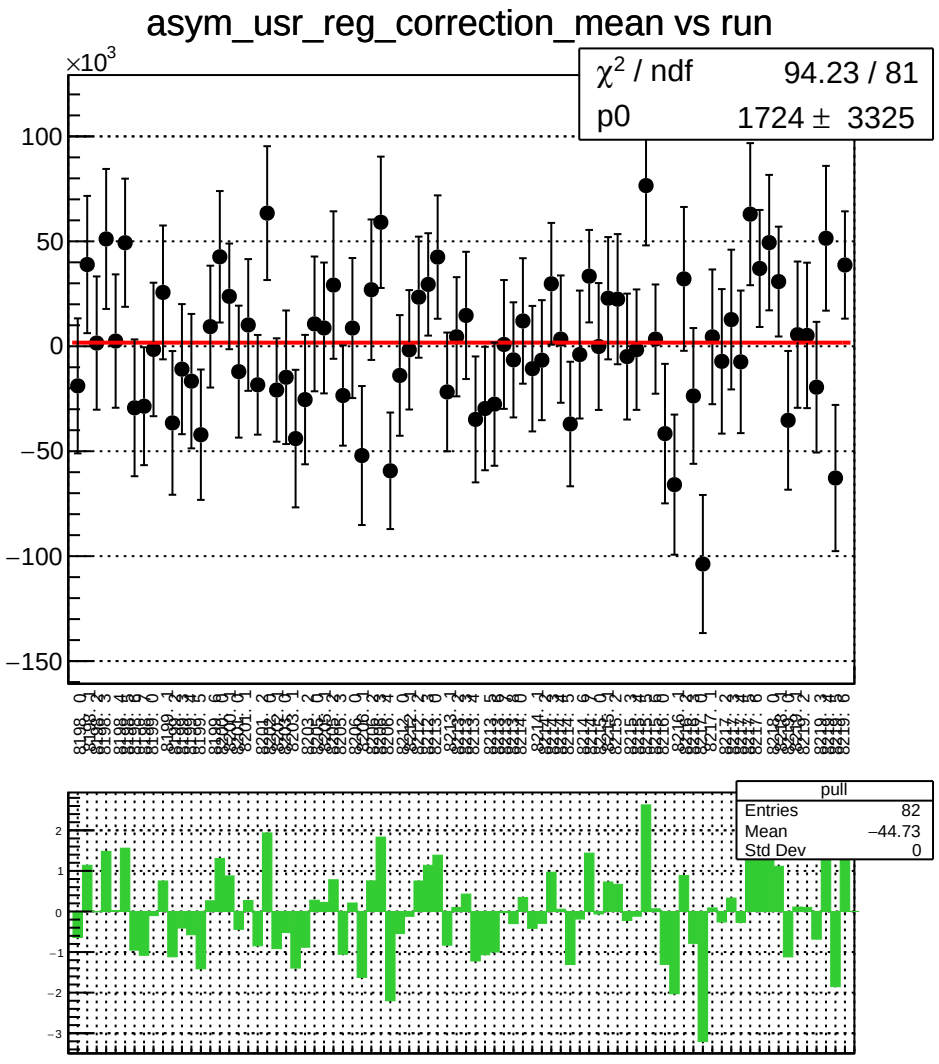

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.6 / 81
p0 −0.01034 ± 0.03557
pull
Entries 82
Mean −113.3
Std Dev 0
pull1D
Entries 82
Mean −0.008296
Std Dev 1.135

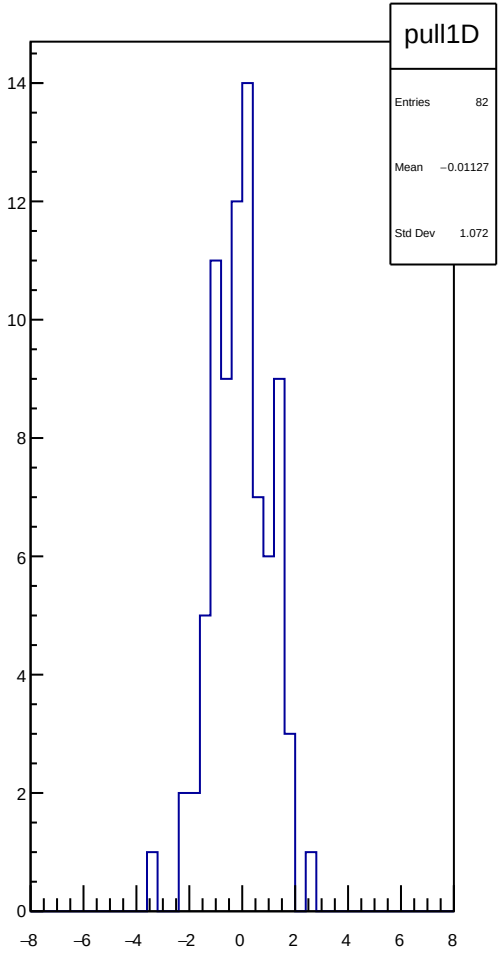

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 81
p0 30.85 ± 0.02515
60
50
40
30
20

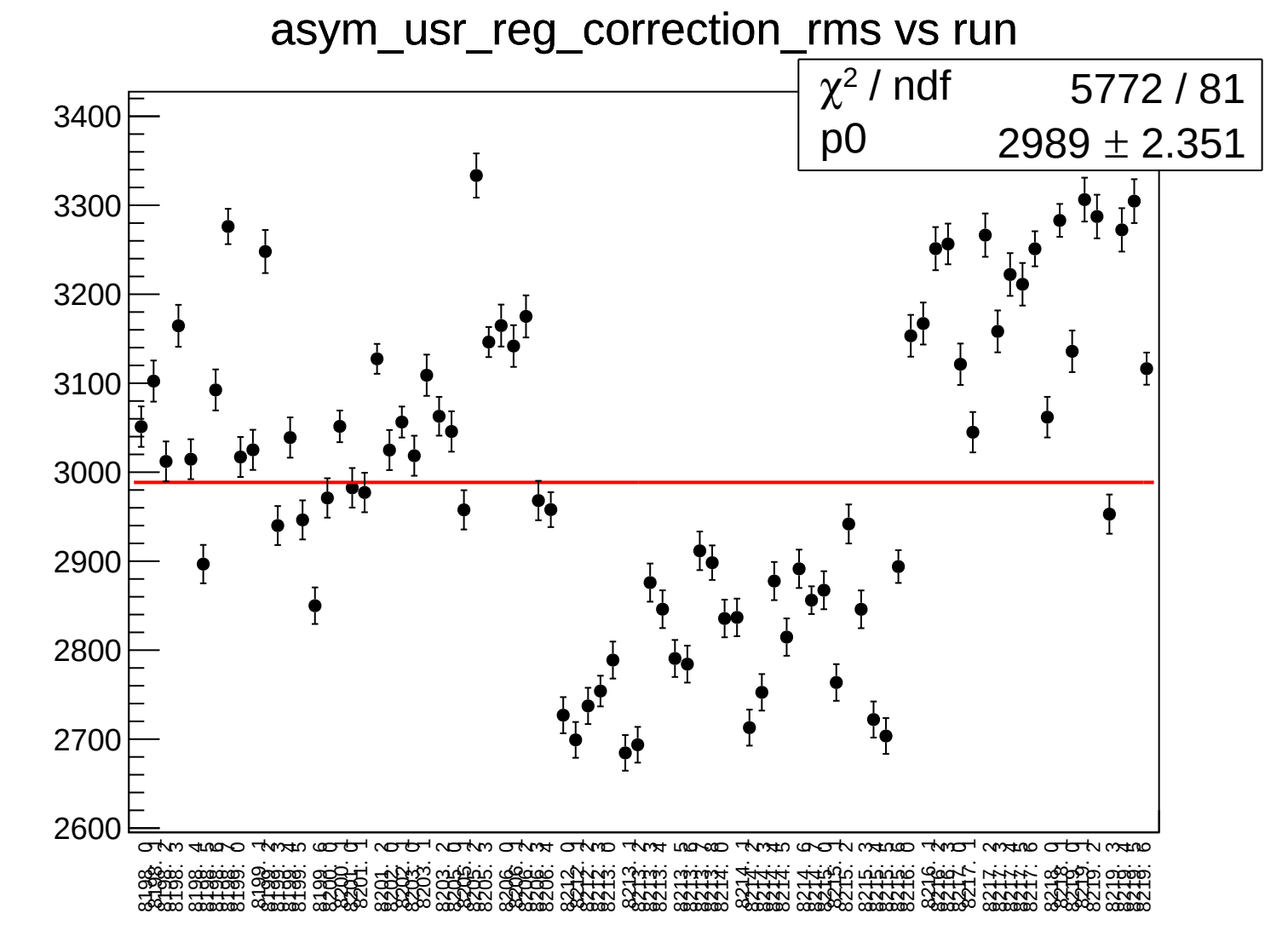

reg_asym_usr_mean vs run
χ² / ndf 71.26 / 81
p0 1184 ± 1193
pull
Entries 82
Mean −548.7
Std Dev 0

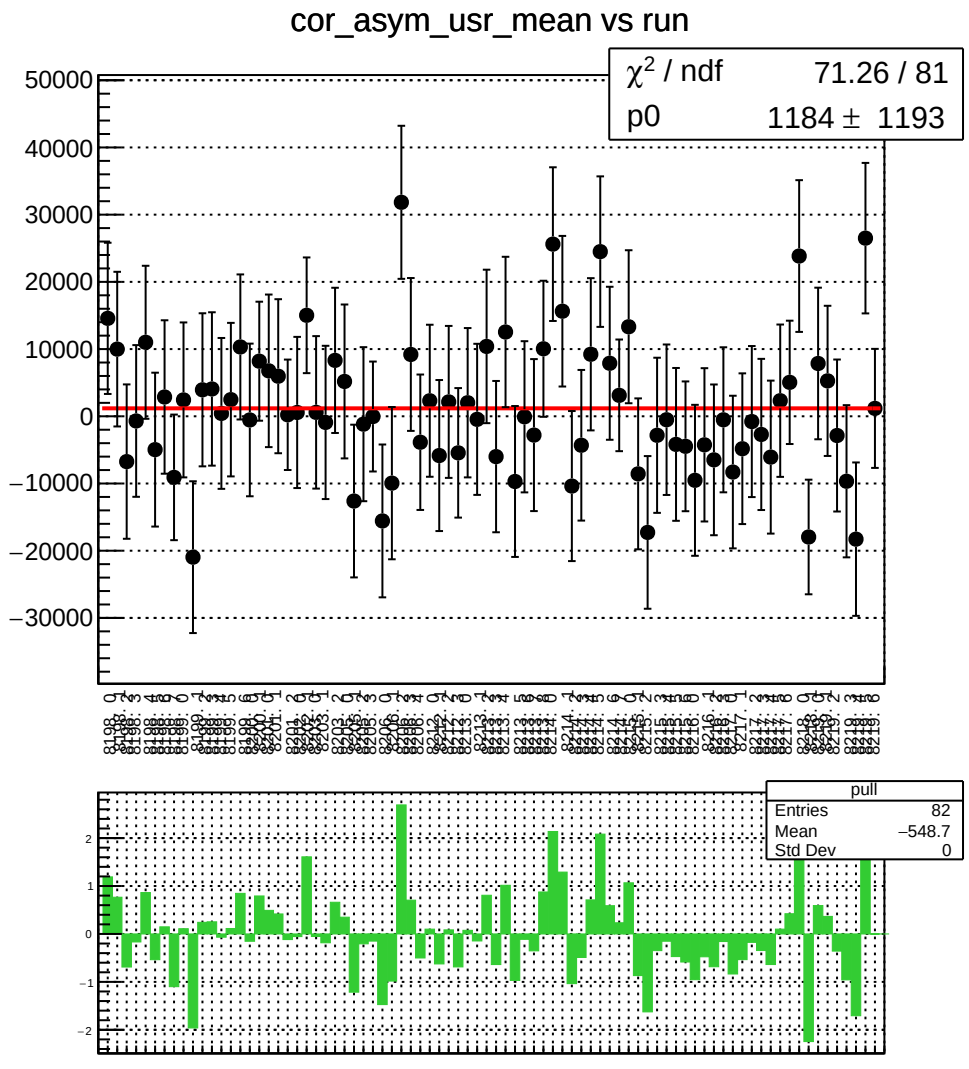

pull1D
Entries 82
Mean 0.003386
Std Dev 0.9322

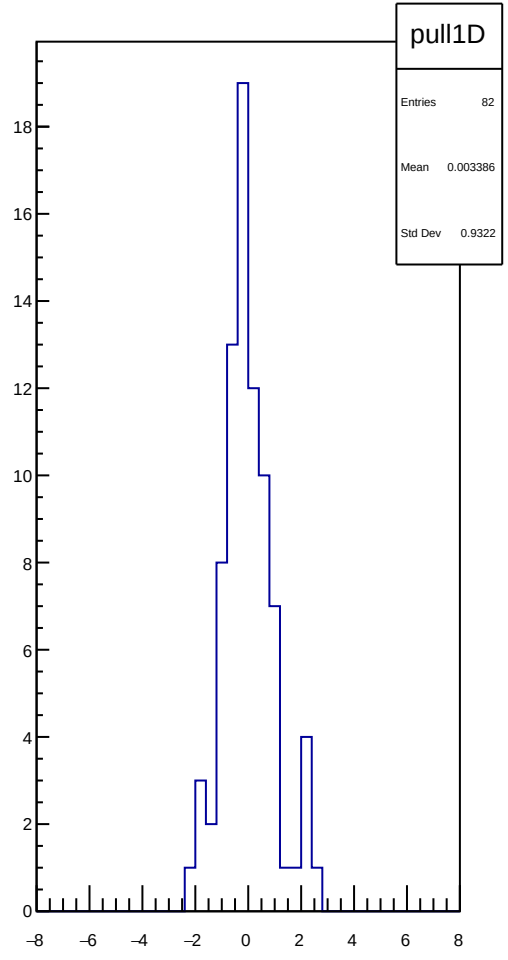

reg_asym_usr_rms vs run
χ² / ndf 108.6 / 81
p0 1074 ± 0.8439
1100
1090
1080
1070
1060
1050

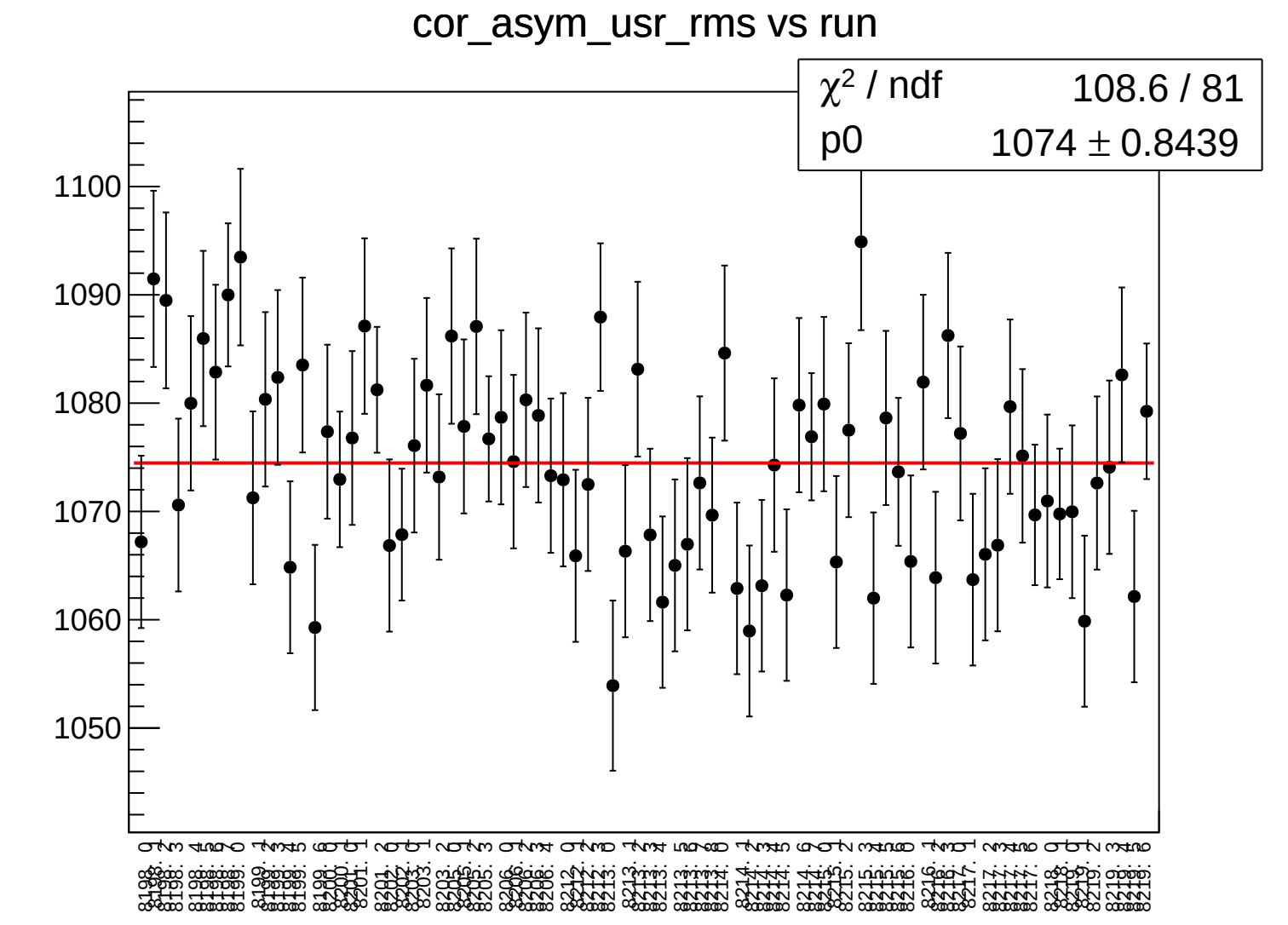

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 94.23 / 81
p0 1724 ± 3325
100
50
0
−50
−100
−150
pull
Entries 82
Mean −44.73
Std Dev 0
2
1
0
−1
−2
−3

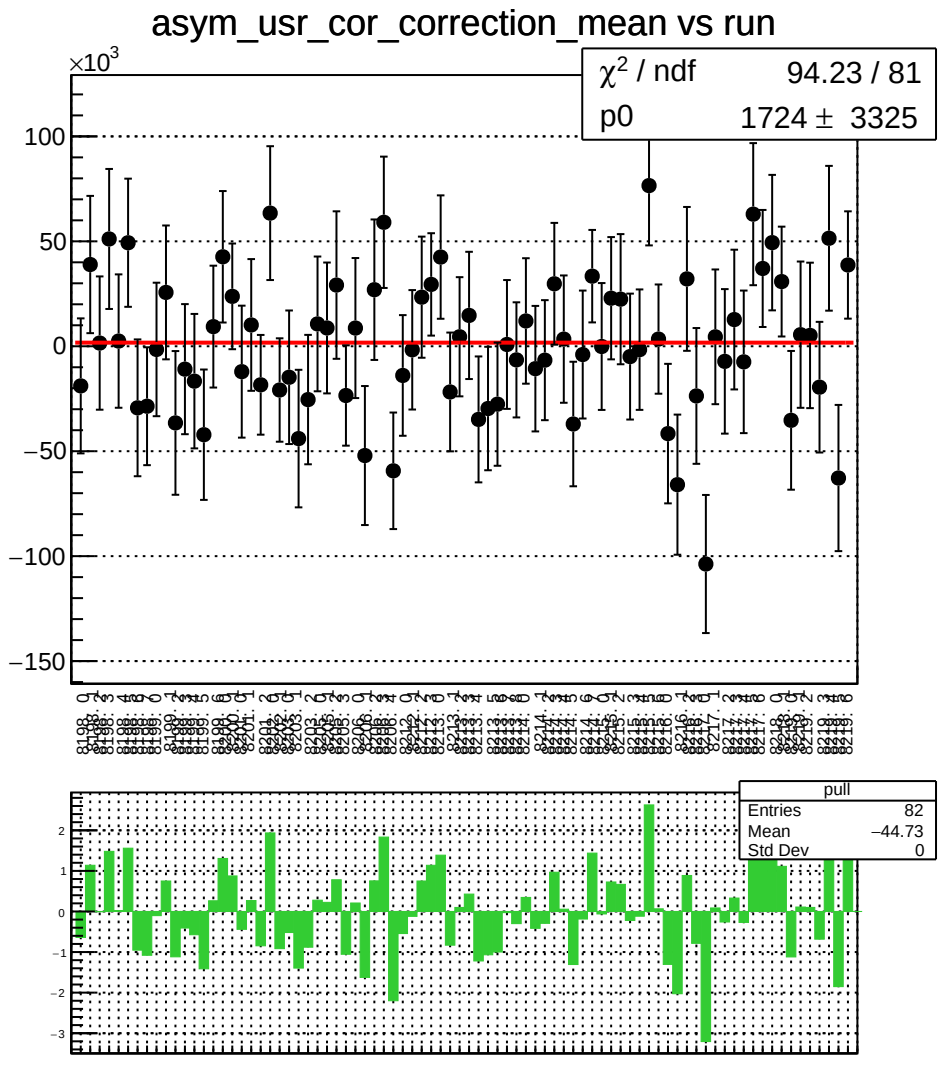

pull1D
Entries 82
Mean −0.01127
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

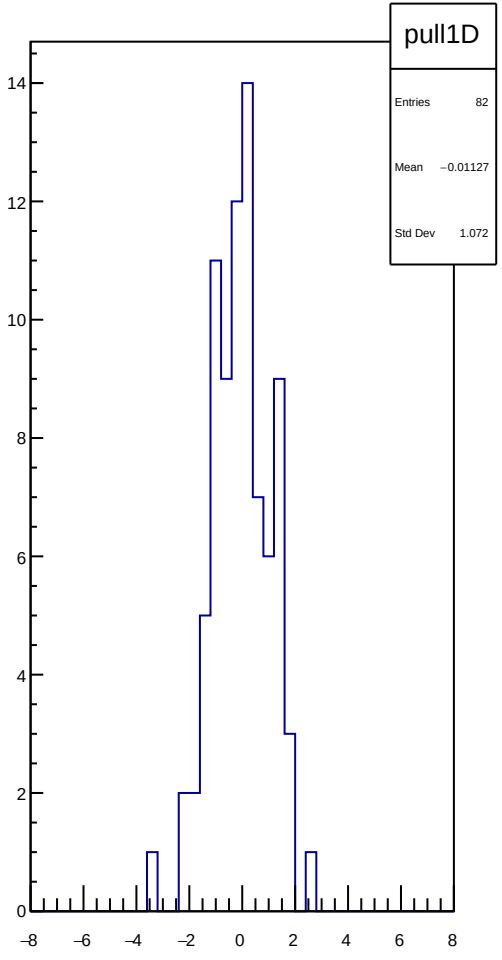

asym_usr_reg_correction_rms vs run
χ² / ndf 5772 / 81
p0 2989 ± 2.351
3400
3300
3200
3100
3000
2900
2800
2700
2600

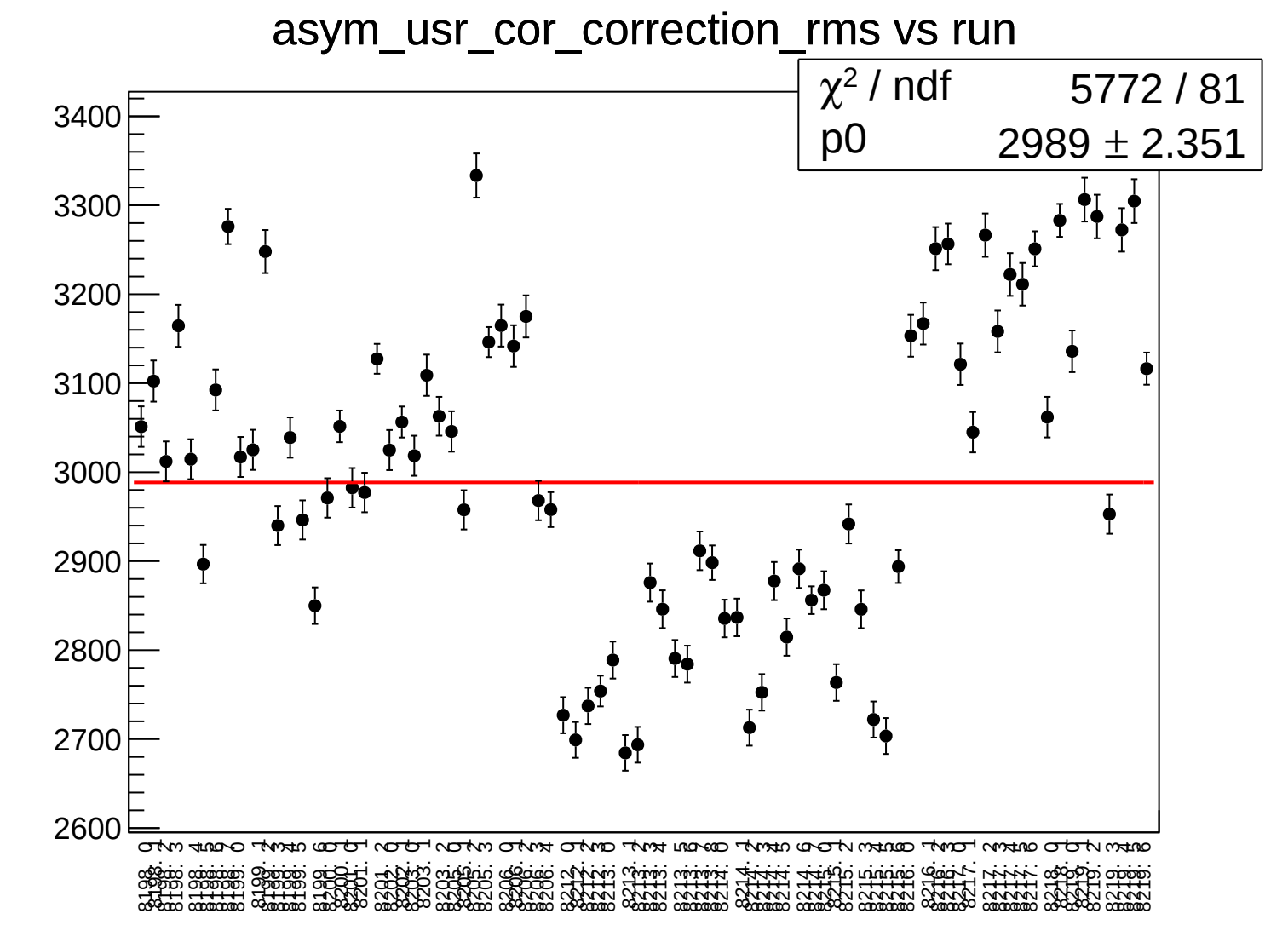

cor_asym_usr_mean vs run
χ² / ndf 71.26 / 81
p0 1184 ± 1193
pull
Entries 82
Mean −548.7
Std Dev 0

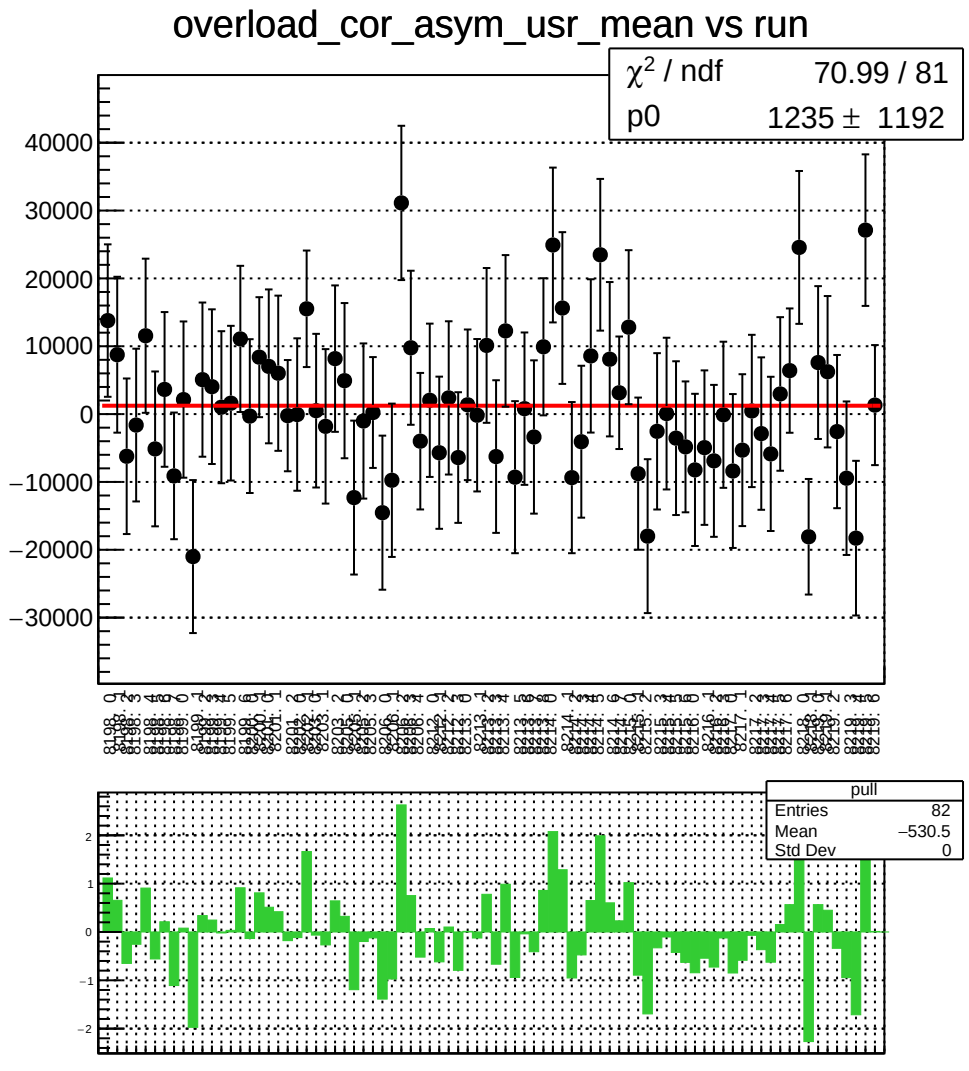

pull1D
Entries 82
Mean 0.003386
Std Dev 0.9322

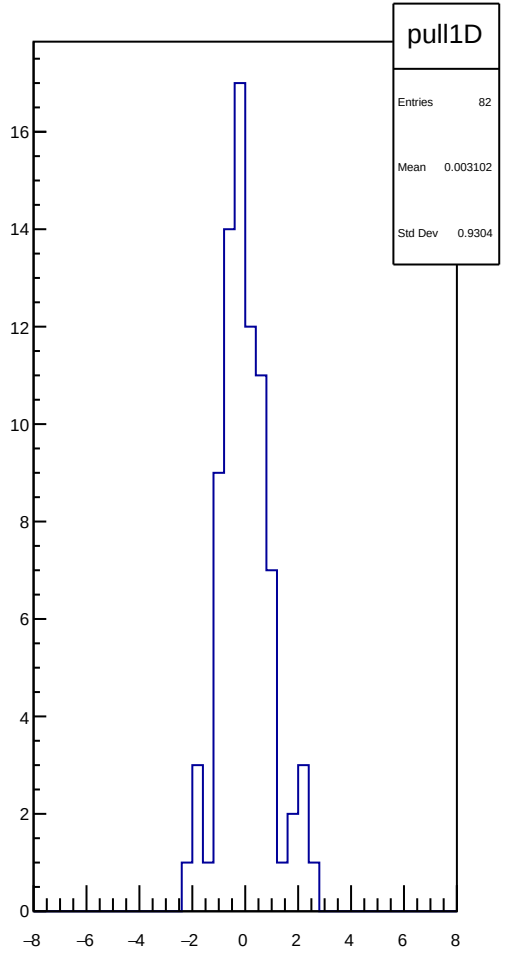

cor_asym_usr_rms vs run
χ² / ndf 108.6 / 81
p0 1074 ± 0.8439
1100
1090
1080
1070
1060
1050

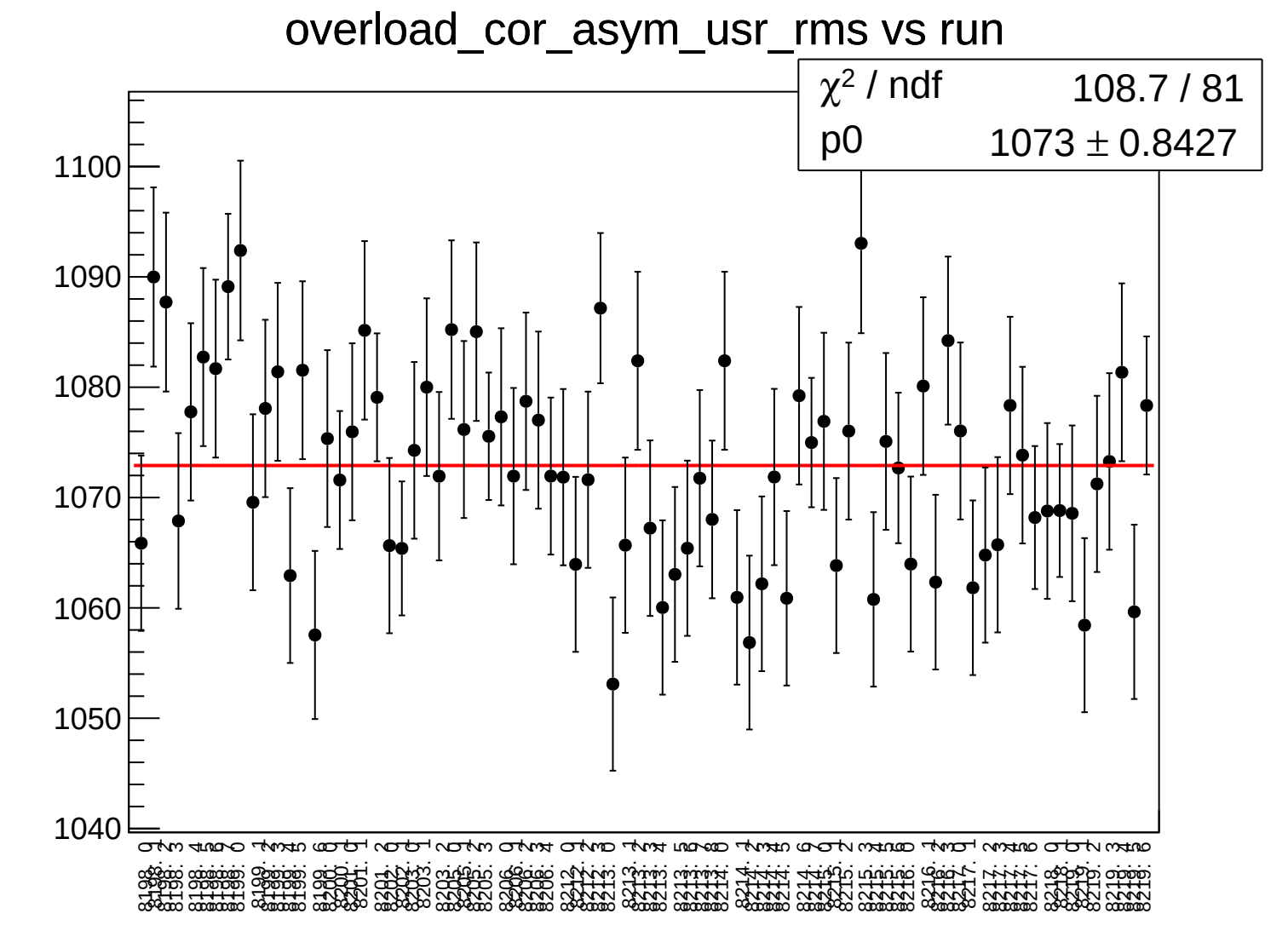

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 94.23 / 81
p0 1724 ± 3325
100
50
0
−50
−100
−150
pull
Entries 82
Mean −44.73
Std Dev 0
2
1
0
−1
−2
−3

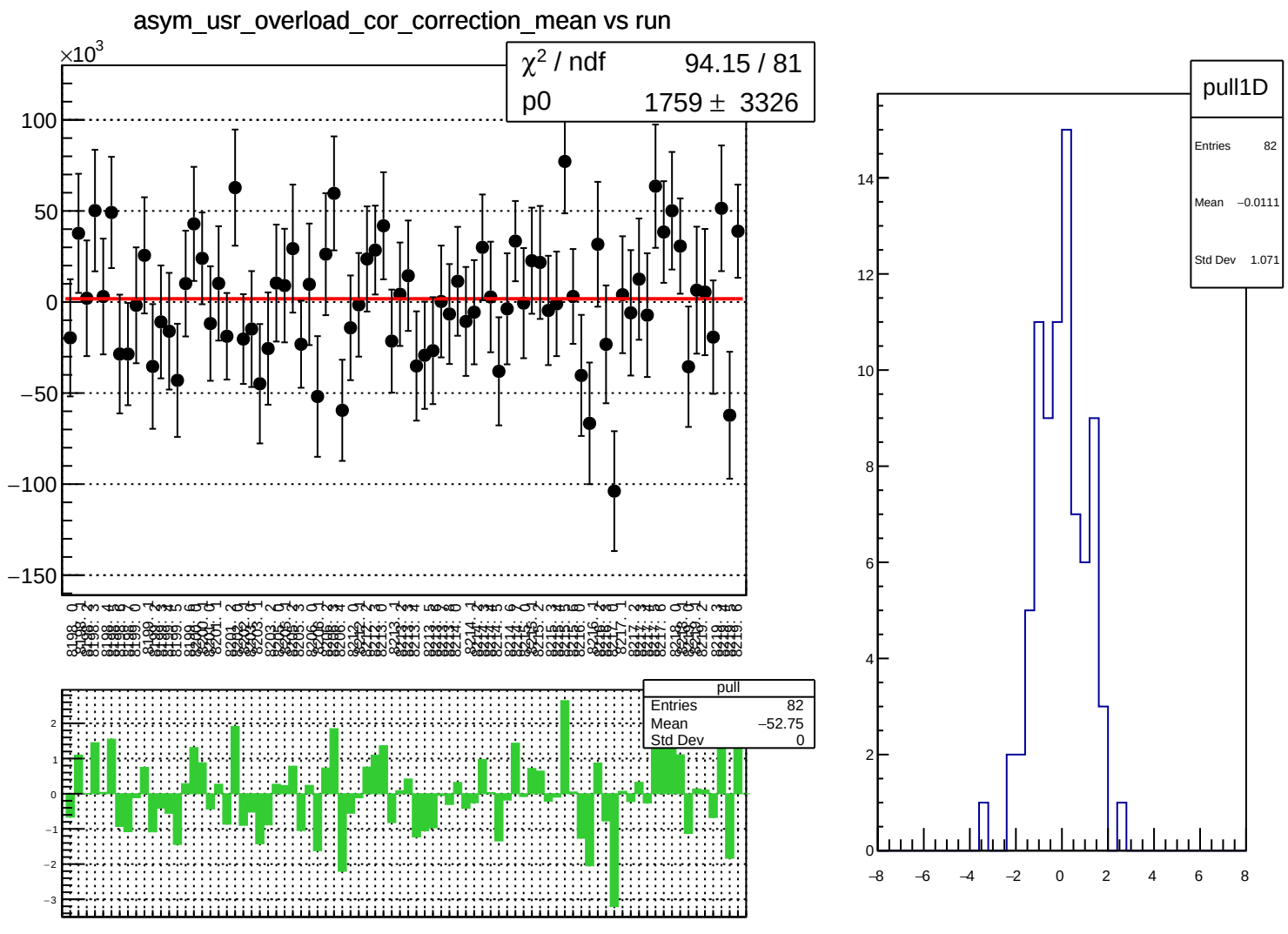

pull1D
Entries 82
Mean −0.01127
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

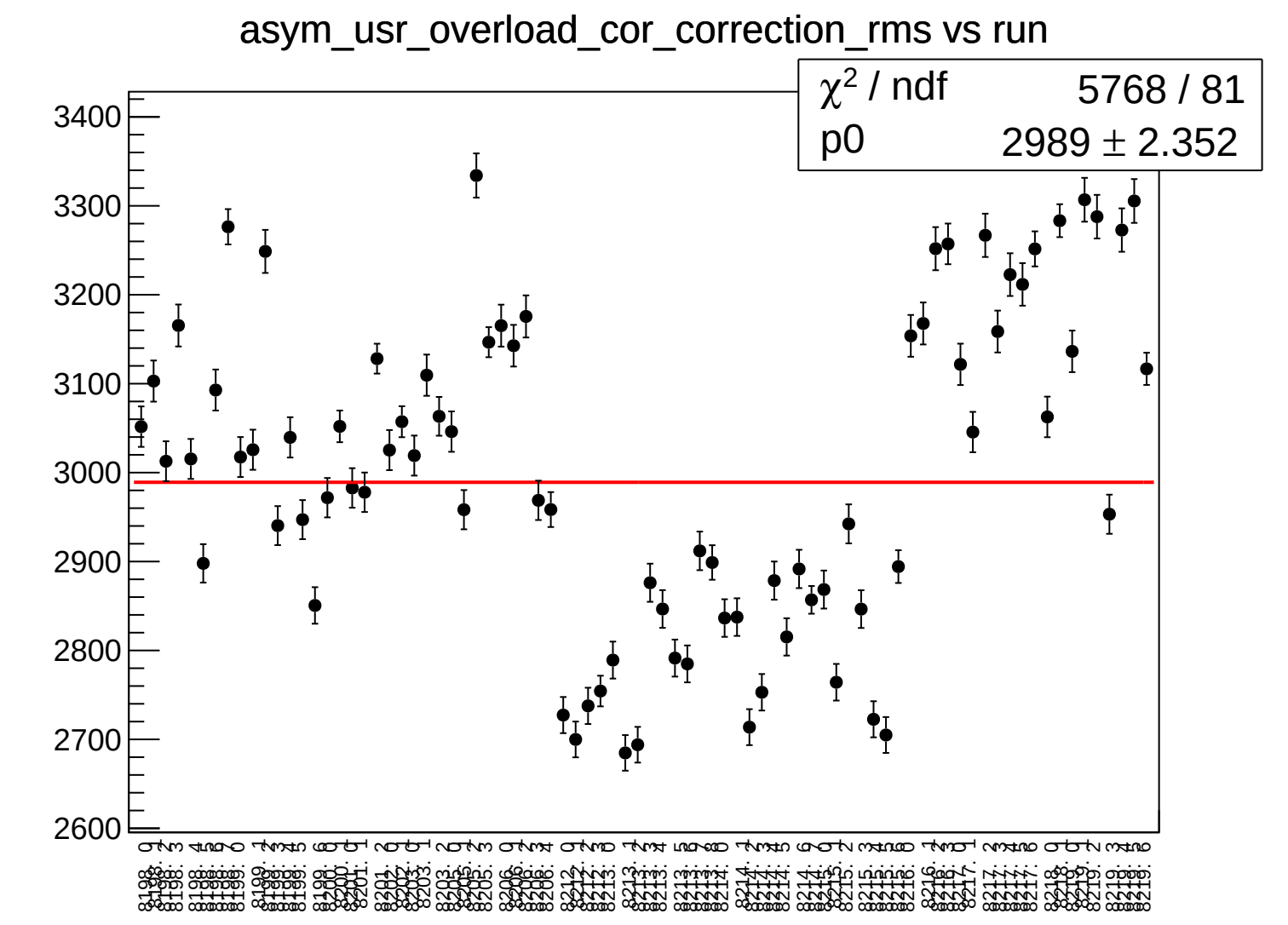

asym_usr_cor_correction_rms vs run
χ² / ndf 5772 / 81
p0 2989 ± 2.351
3400
3300
3200
3100
3000
2900
2800
2700
2600

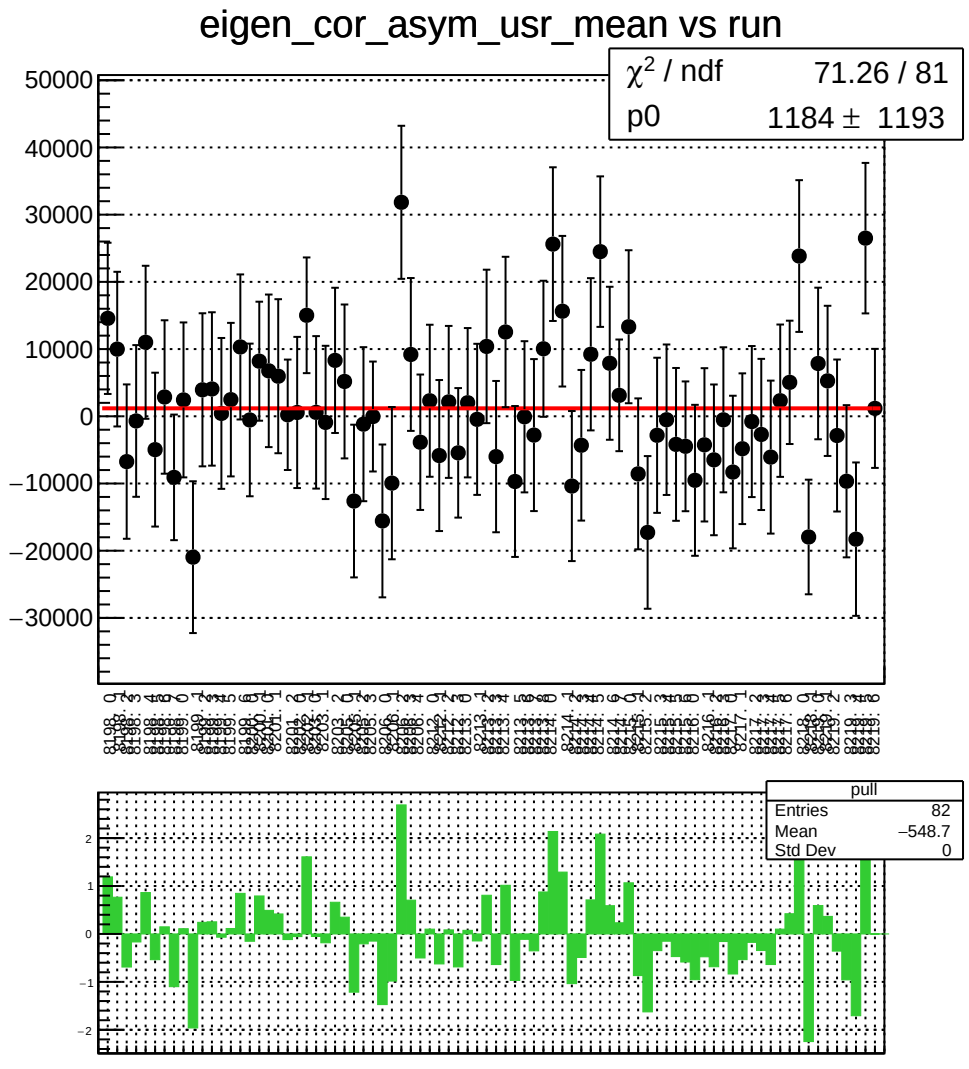

overload_cor_asym_usr_mean vs run
χ² / ndf 70.99 / 81
p0 1235 ± 1192
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −530.5
Std Dev 0
2
1
0
−1
−2

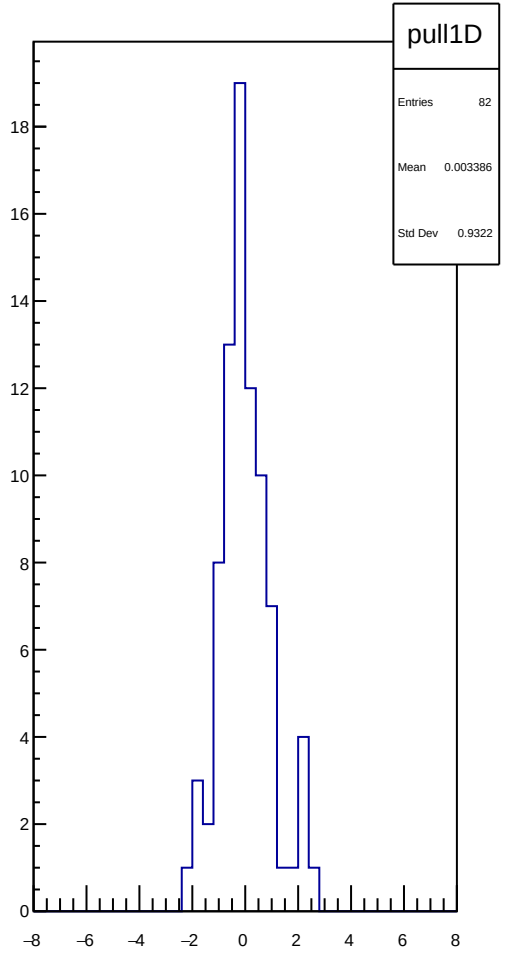

pull1D
Entries 82
Mean 0.003102
Std Dev 0.9304
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

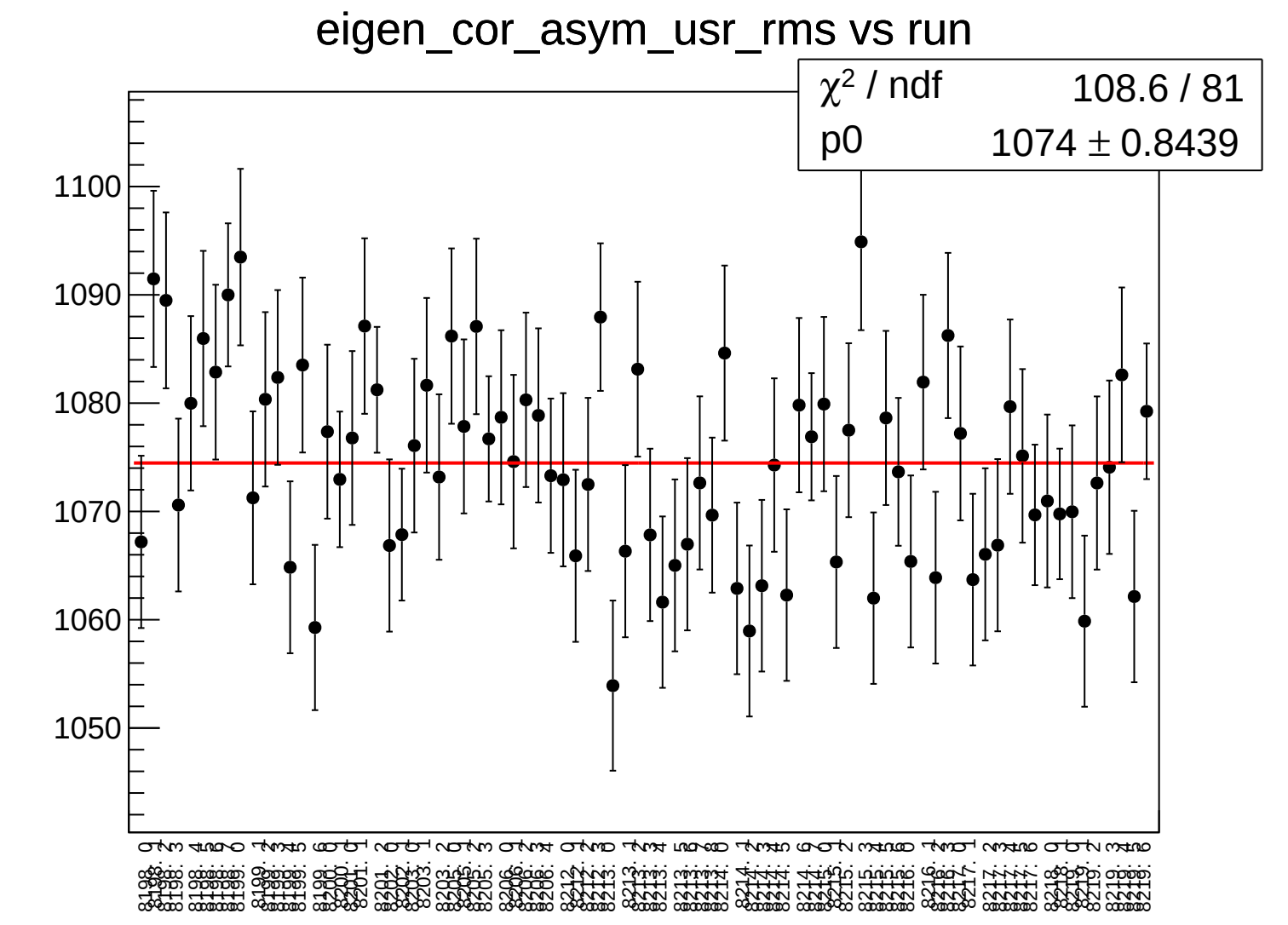

overload_cor_asym_usr_rms vs run
χ² / ndf 108.7 / 81
p0 1073 ± 0.8427
1100
1090
1080
1070
1060
1050
1040

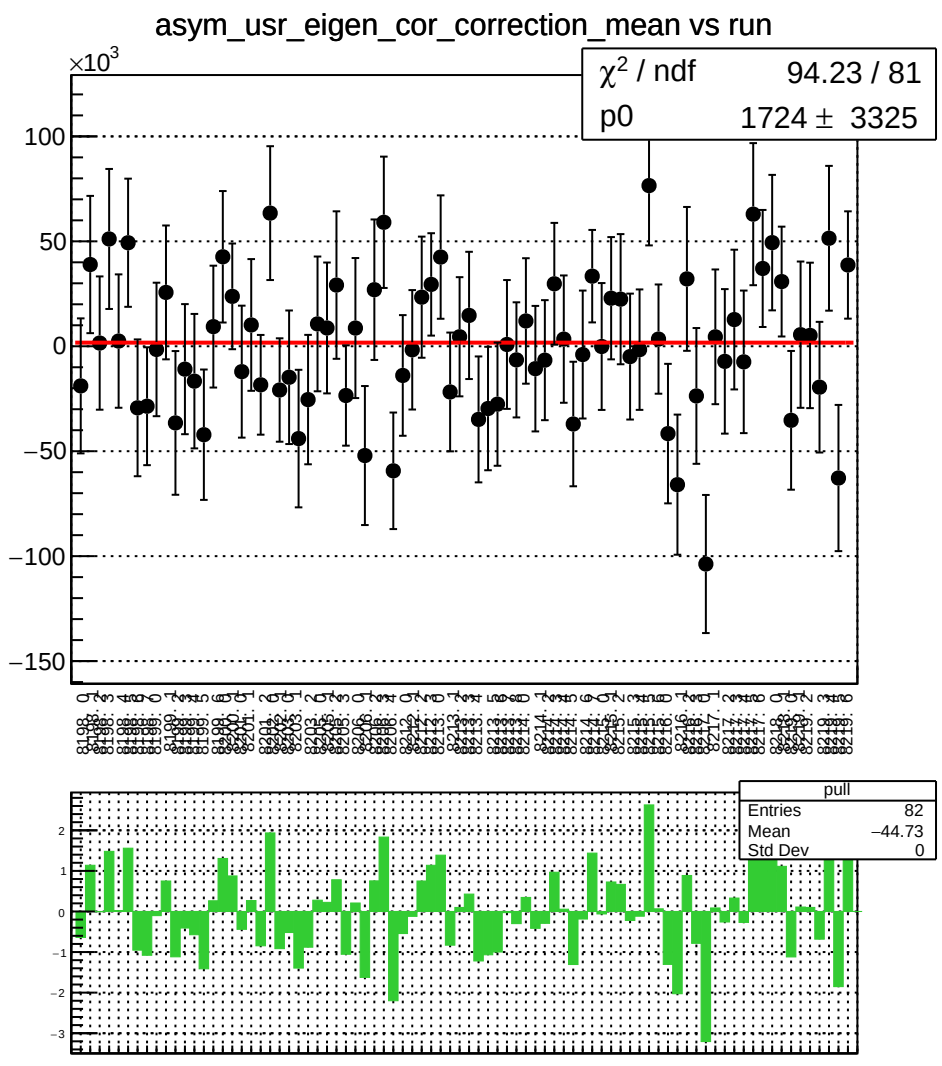

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 94.15 / 81
p0 1759 ± 3326
100
50
0
−50
−100
−150
pull
Entries 82
Mean −52.75
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.0111
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

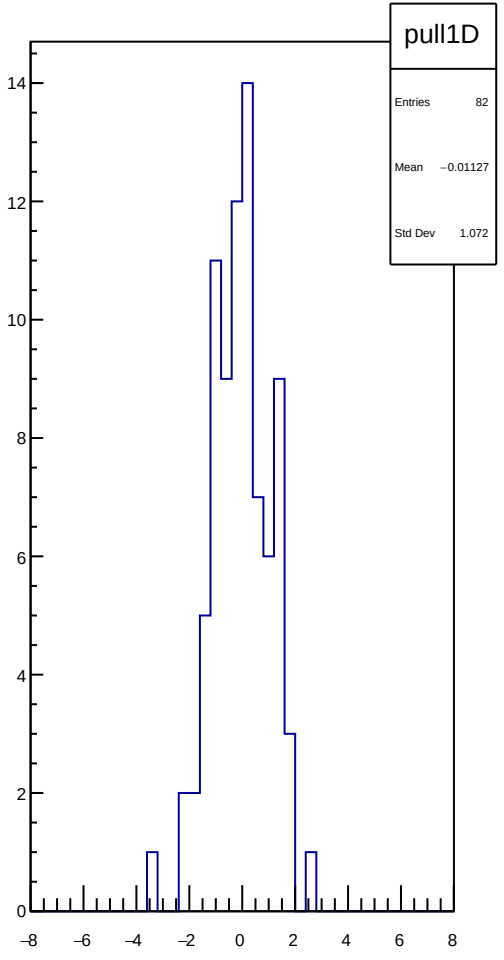

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 5768 / 81
p0 2989 ± 2.352
3400
3300
3200
3100
3000
2900
2800
2700
2600

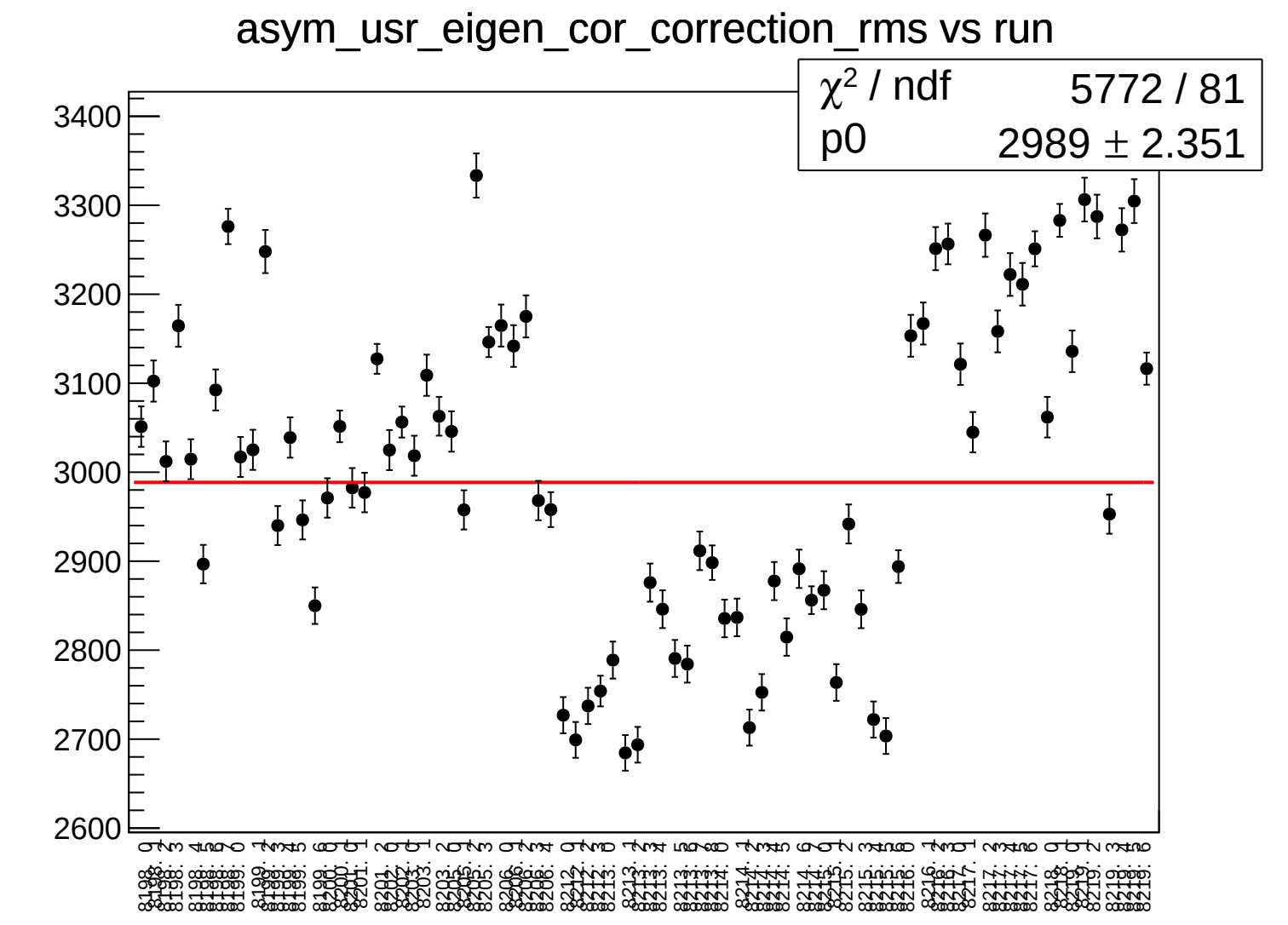

eigen_cor_asym_usr_mean vs run
χ² / ndf 71.26 / 81
p0 1184 ± 1193
pull
Entries 82
Mean −548.7
Std Dev 0

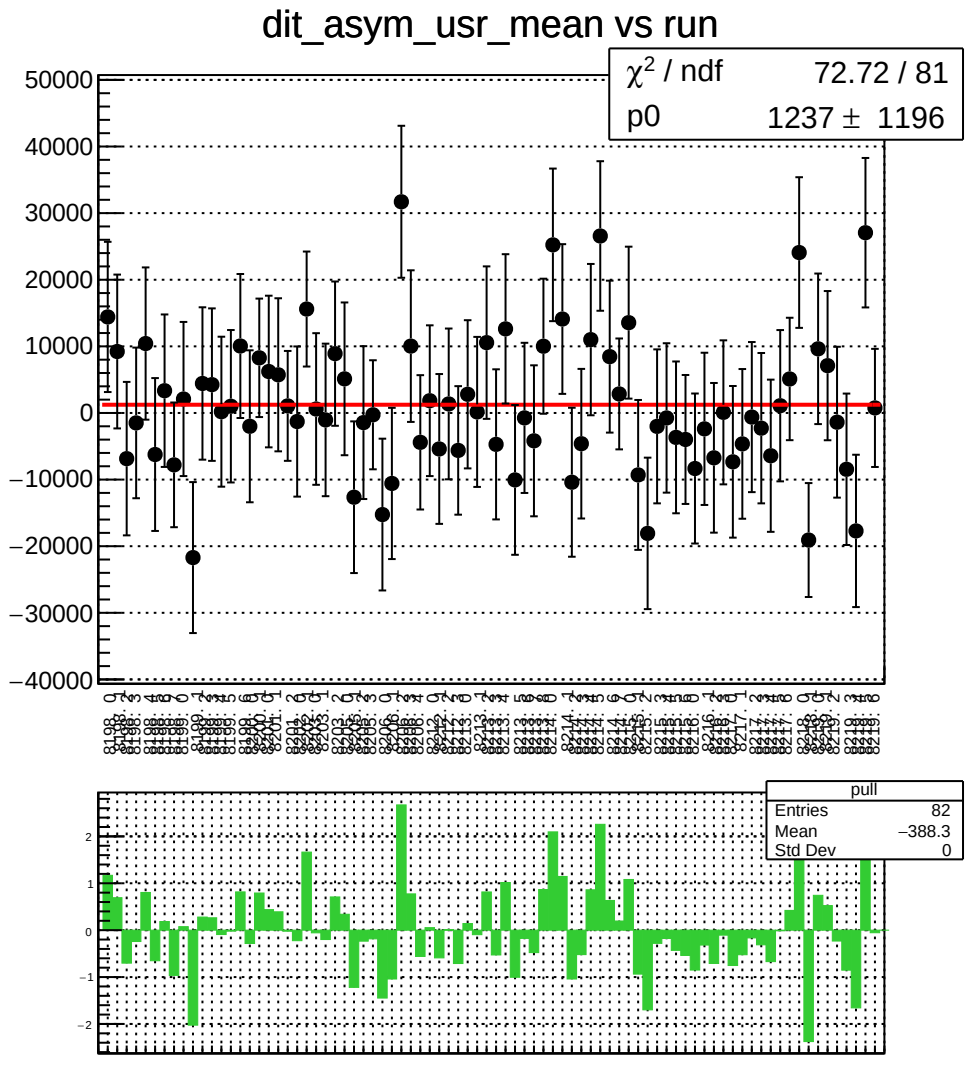

pull1D
Entries 82
Mean 0.003386
Std Dev 0.9322

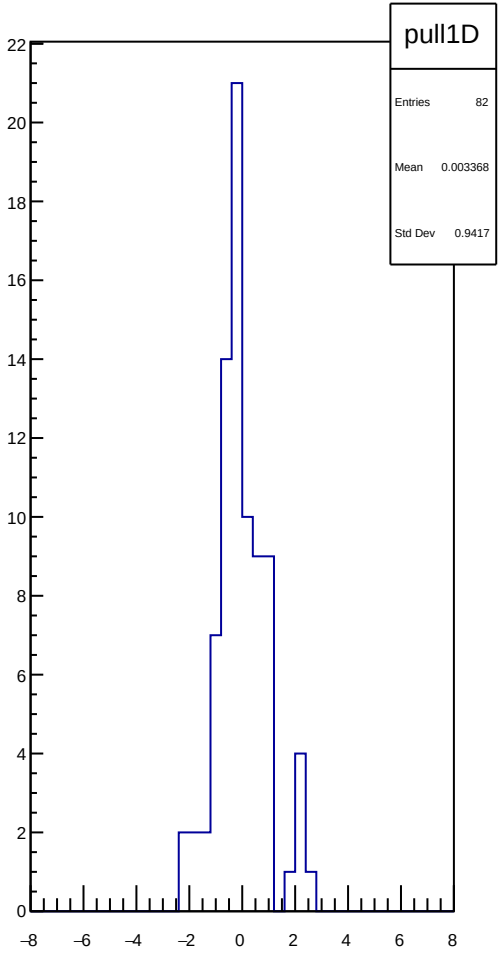

eigen_cor_asym_usr_rms vs run
$\chi^2$ / ndf 108.6 / 81
p0 1074 ± 0.8439
1100
1090
1080
1070
1060
1050


asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.23 / 81
p0 1724 ± 3325
100
50
0
−50
−100
−150
pull
Entries 82
Mean −44.73
Std Dev 0
2
1
0
−1
−2
−3

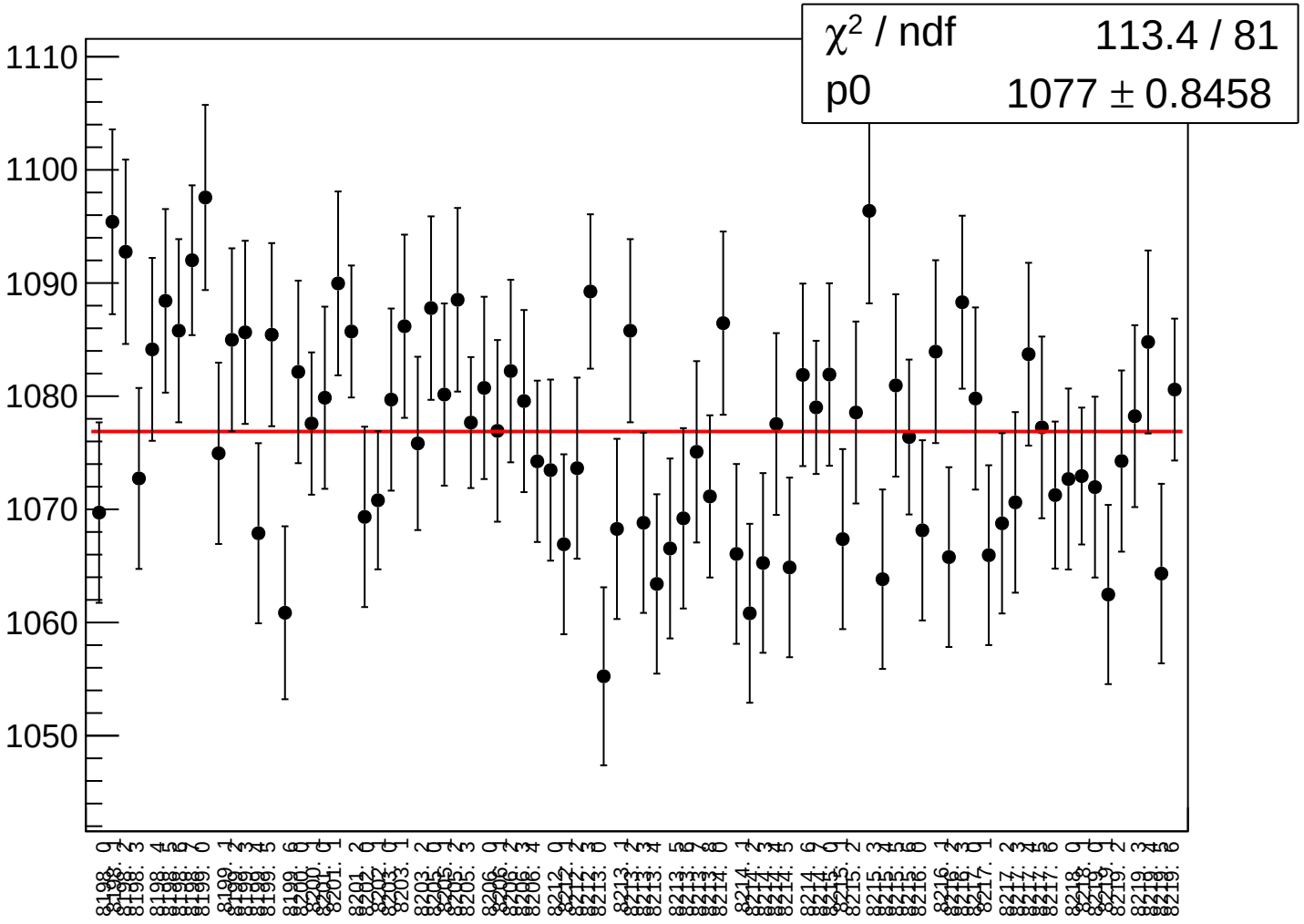

pull1D
Entries 82
Mean −0.01127
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

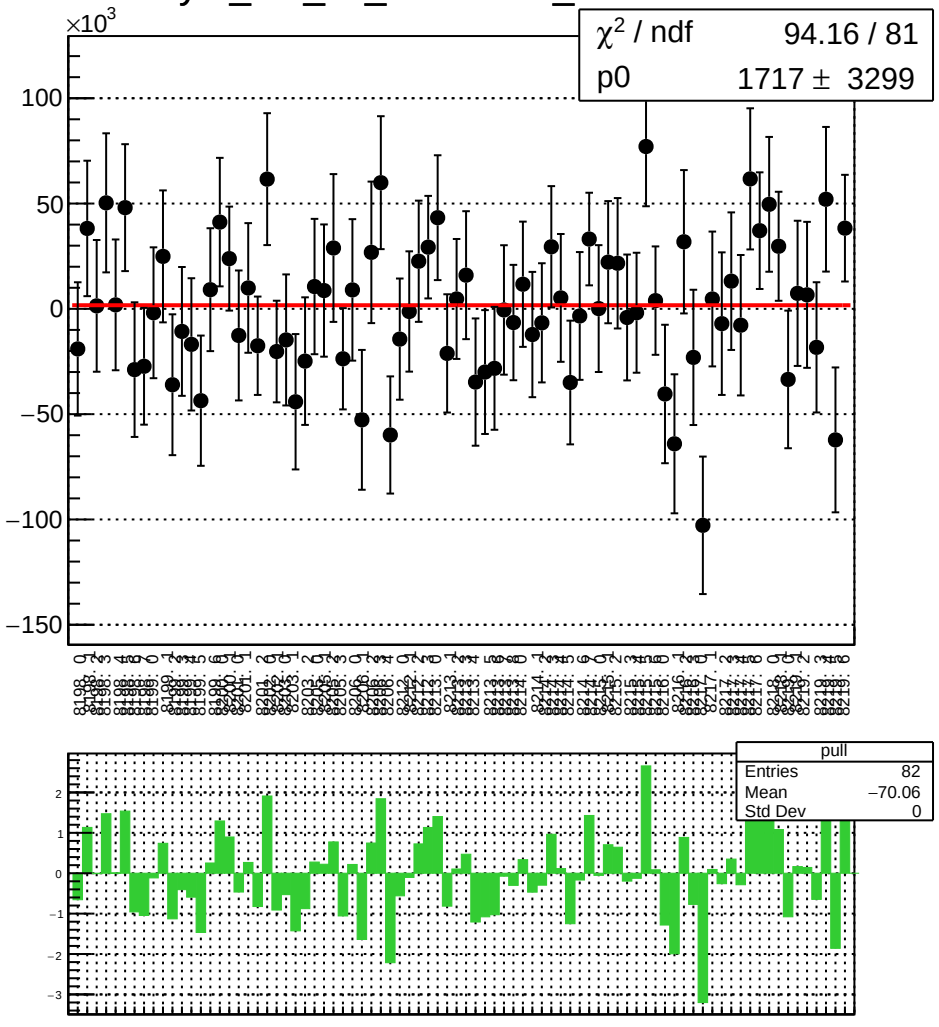

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 5772 / 81
p0 2989 ± 2.351
3400
3300
3200
3100
3000
2900
2800
2700
2600

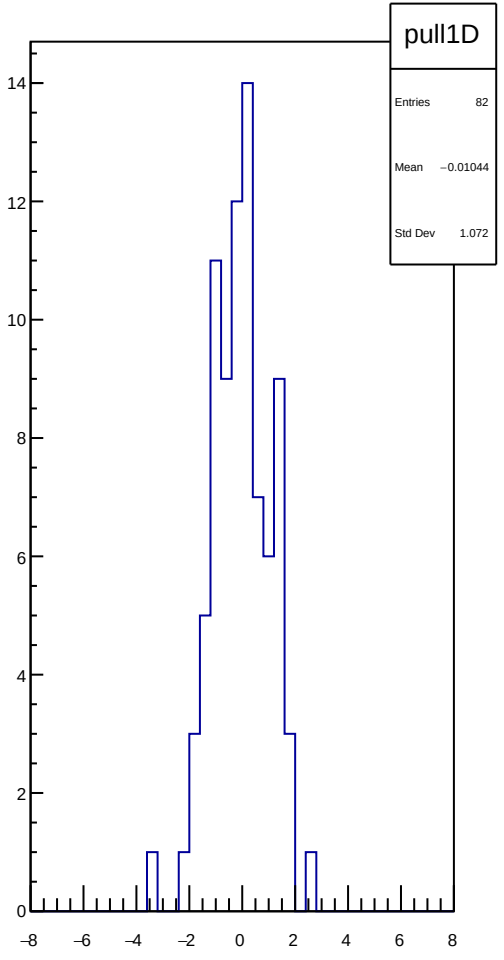

dit_asym_usr_mean vs run
χ² / ndf 72.72 / 81
p0 1237 ± 1196
pull
Entries 82
Mean −388.3
Std Dev 0

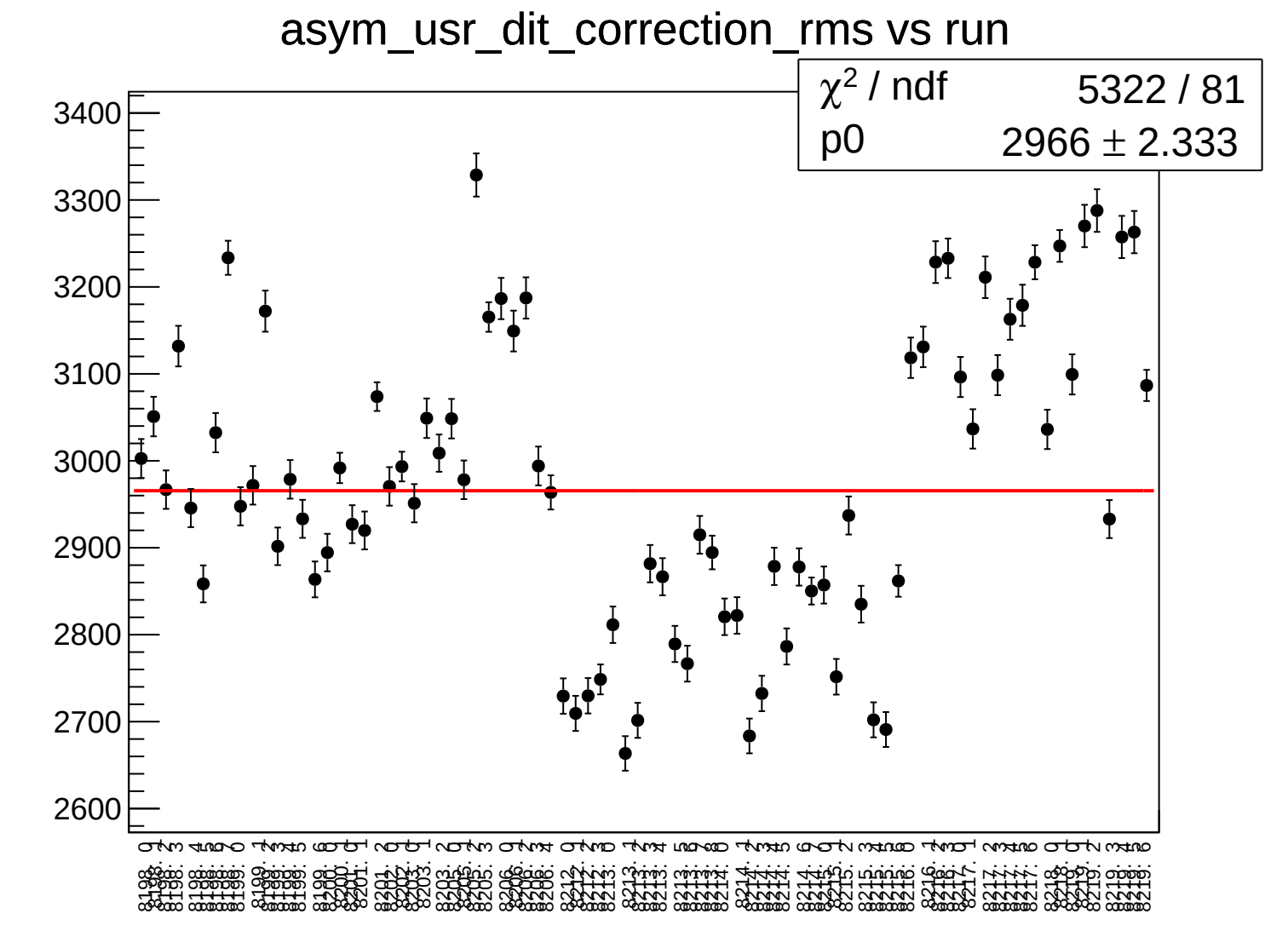

pull1D
Entries 82
Mean 0.003368
Std Dev 0.9417

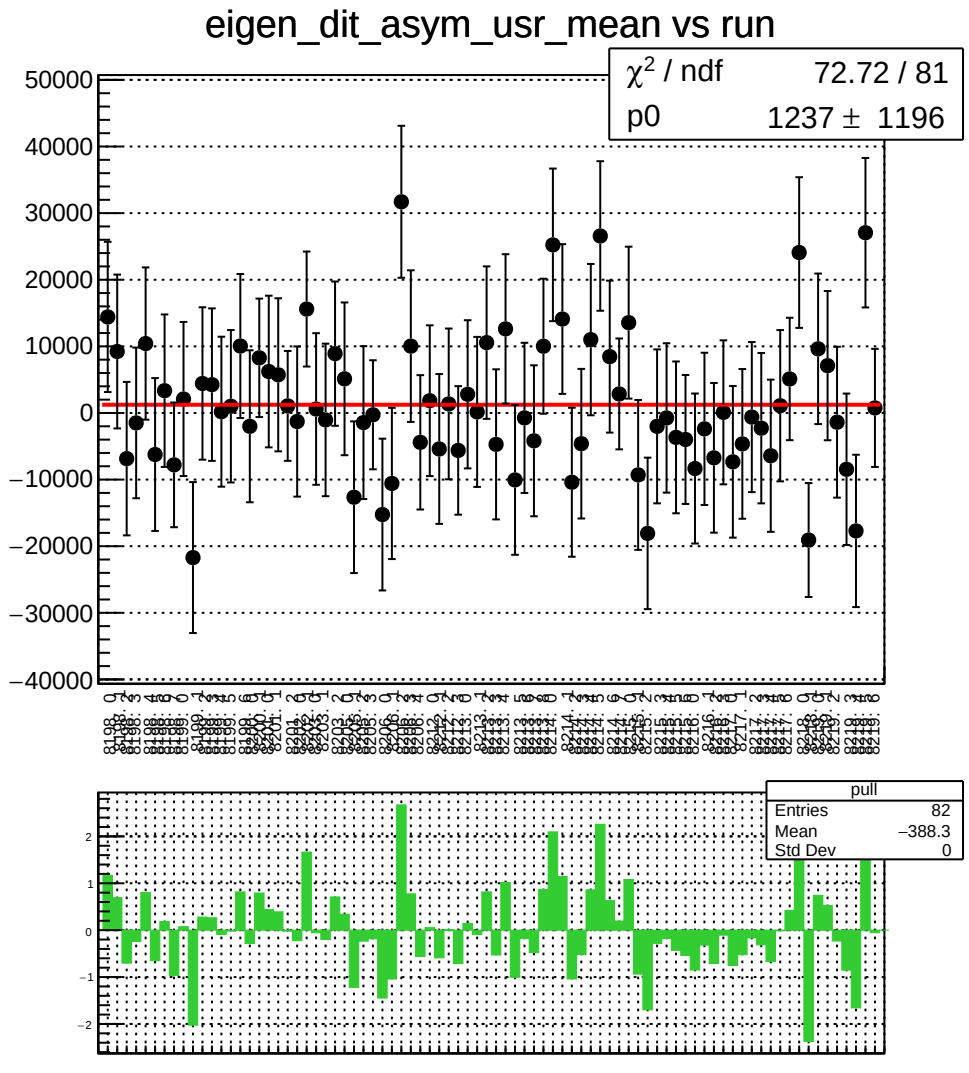
# dit_asym_usr_rms vs run

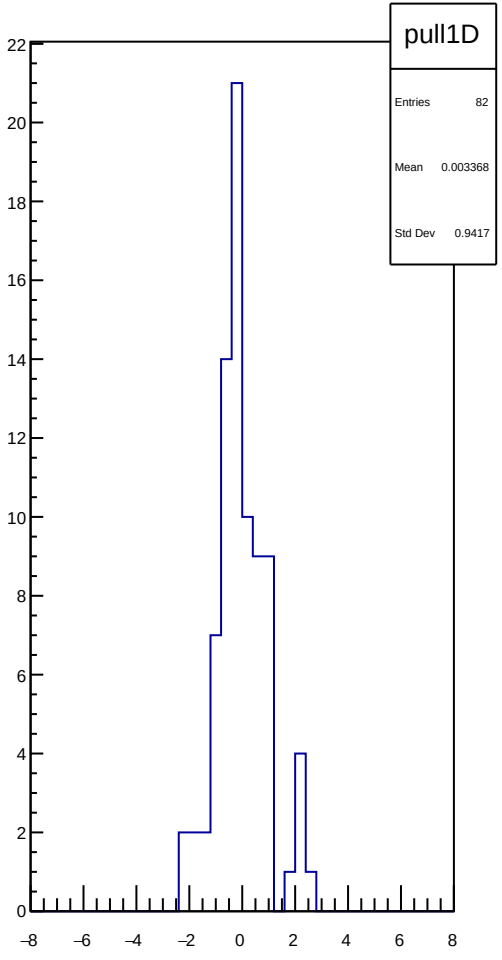


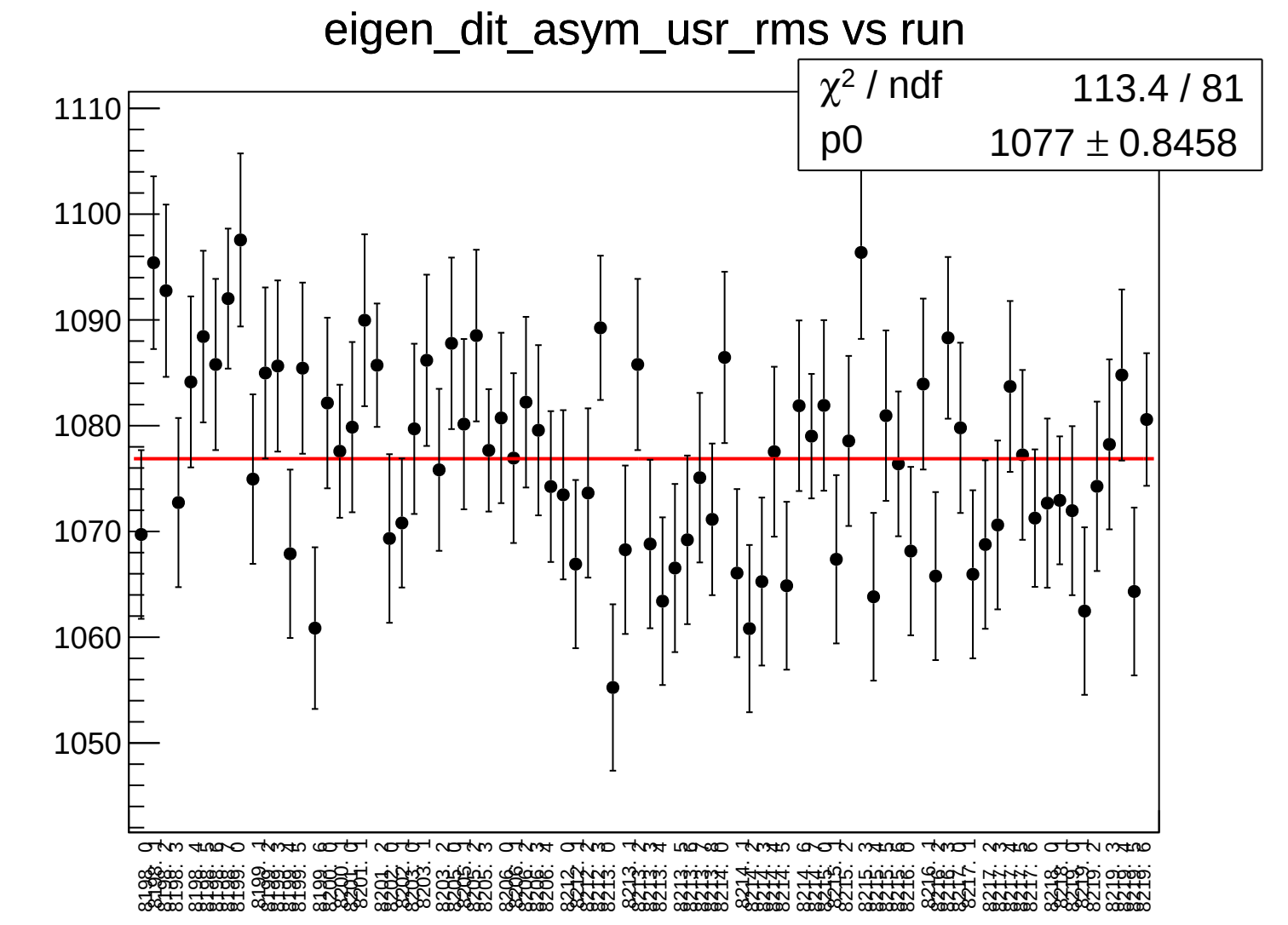

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 94.16 / 81
p0 1717 ± 3299
100
50
0
−50
−100
−150
pull
Entries 82
Mean −70.06
Std Dev 0
2
1
0
−1
−2
−3

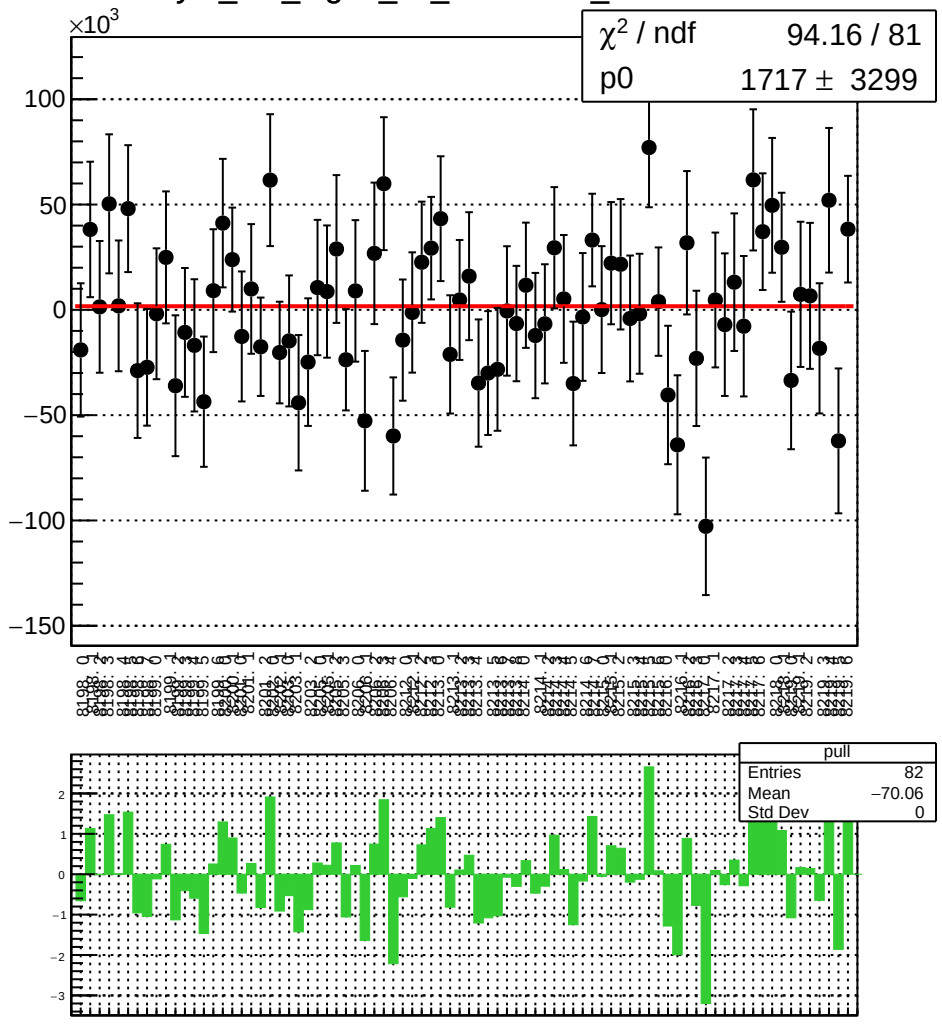

pull1D
Entries 82
Mean −0.01044
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

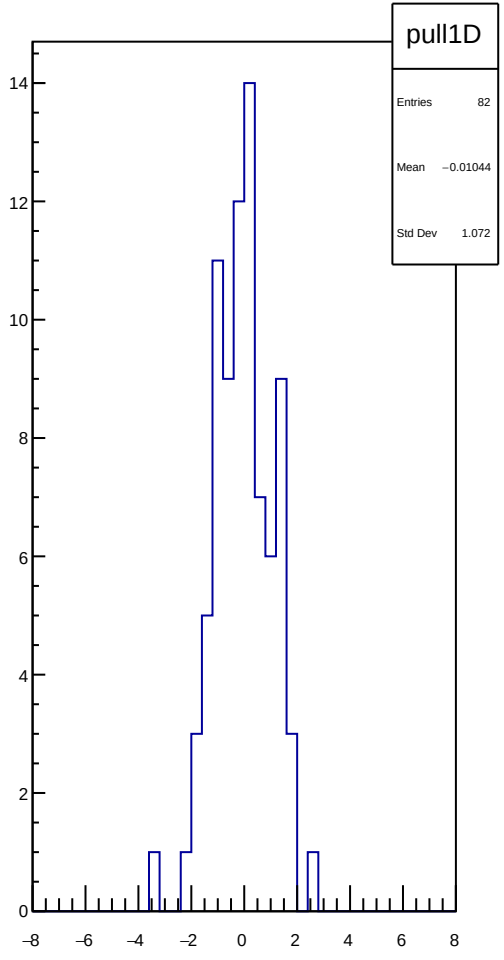

asym_usr_dit_correction_rms vs run
χ² / ndf 5322 / 81
p0 2966 ± 2.333
3400
3300
3200
3100
3000
2900
2800
2700
2600

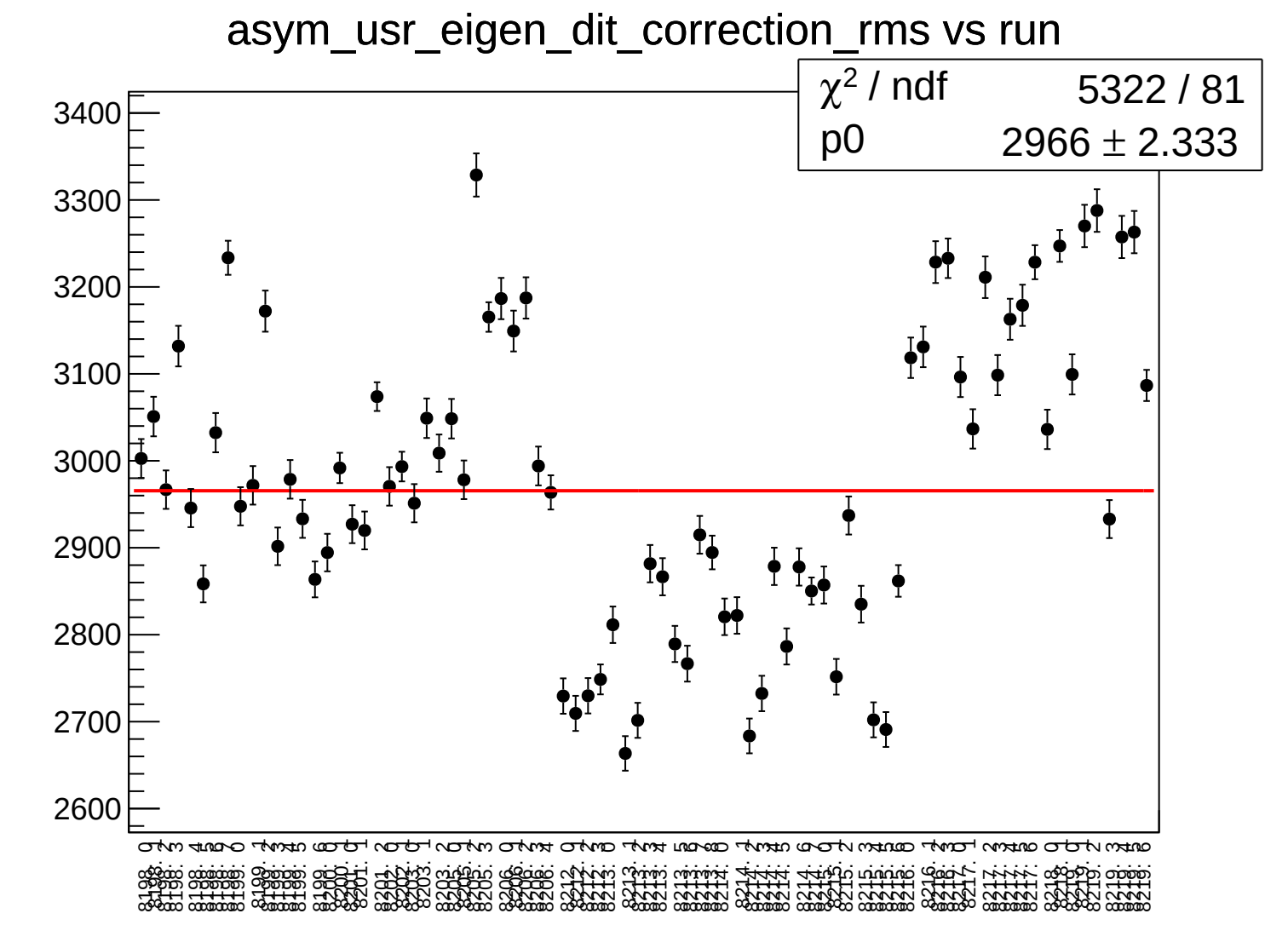

eigen_dit_asym_usr_mean vs run
χ² / ndf 72.72 / 81
p0 1237 ± 1196
pull
Entries 82
Mean −388.3
Std Dev 0

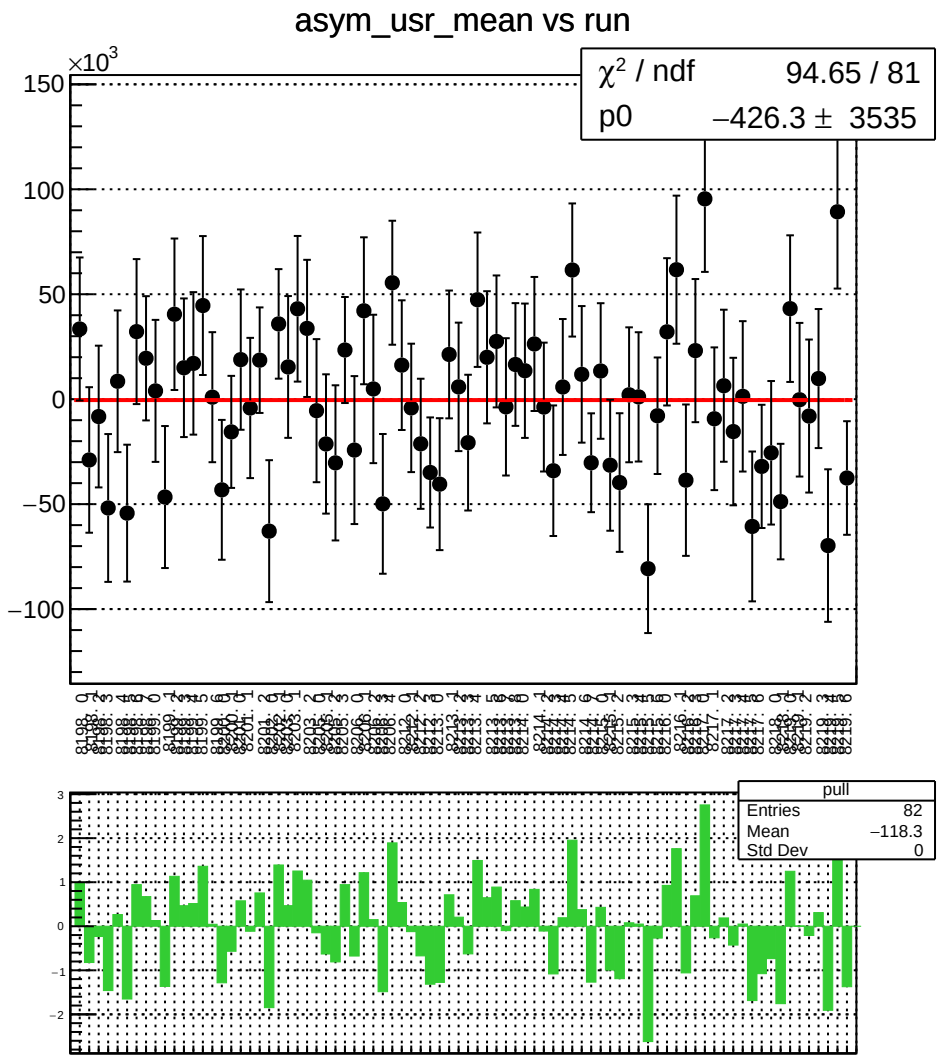

pull1D
Entries 82
Mean 0.003368
Std Dev 0.9417

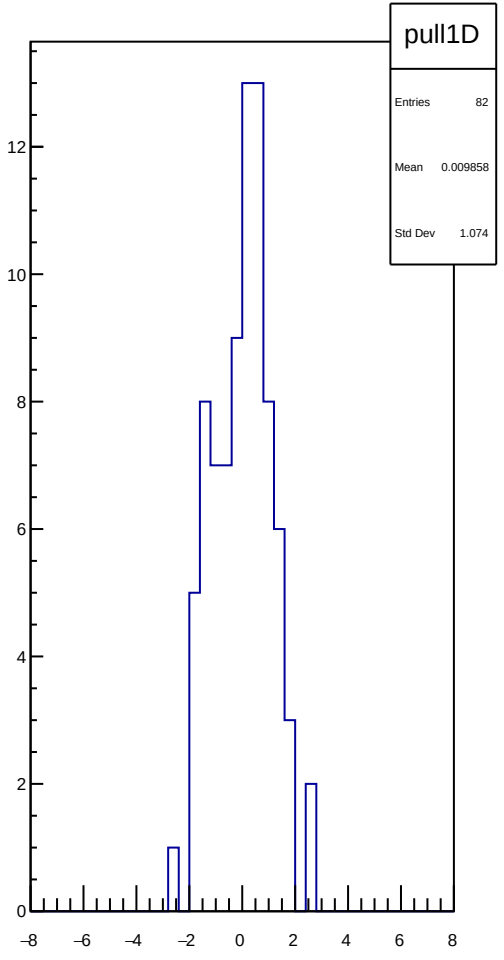

eigen_dit_asym_usr_rms vs run
χ² / ndf 113.4 / 81
p0 1077 ± 0.8458
1110
1100
1090
1080
1070
1060
1050

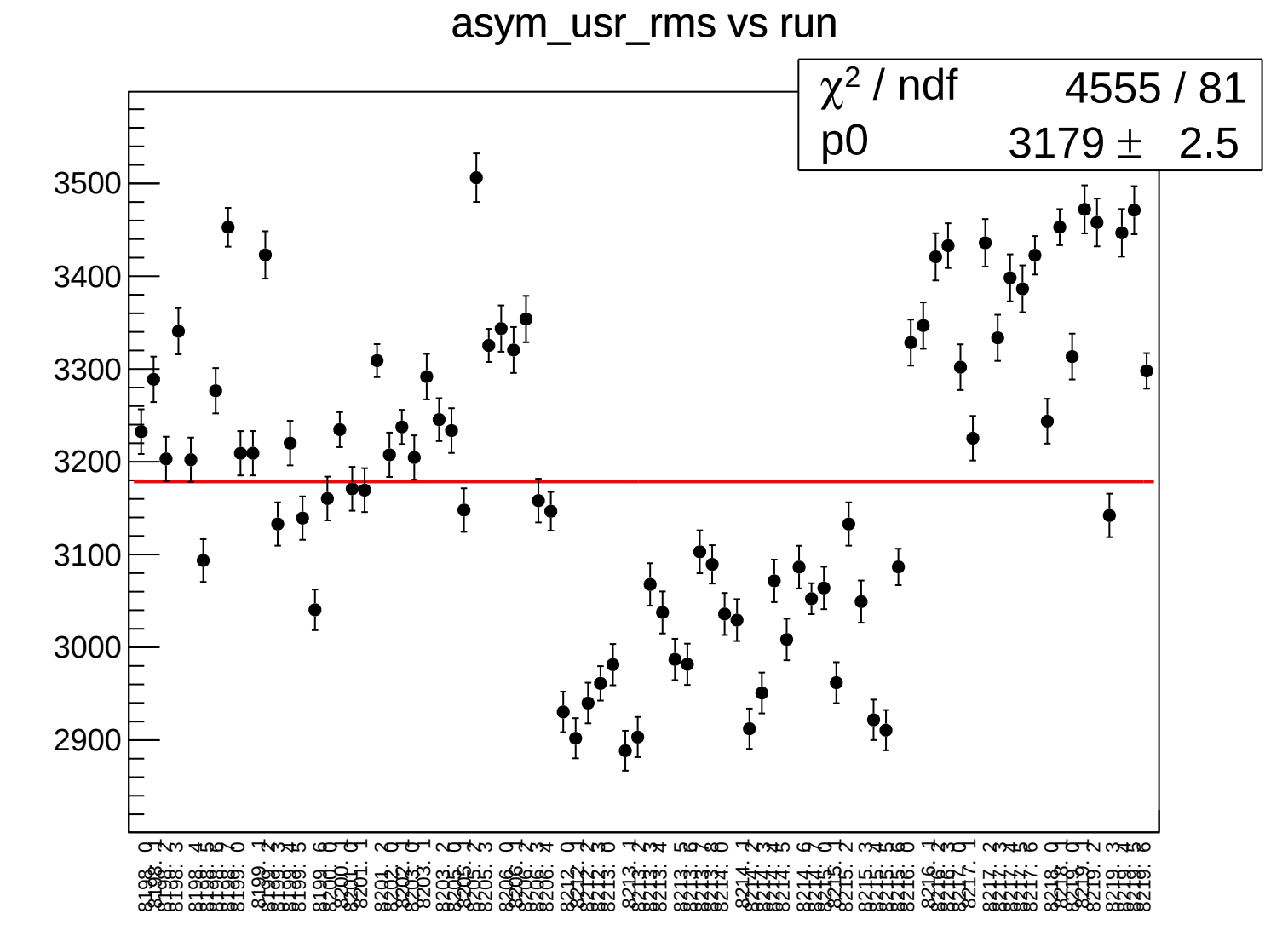

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.16 / 81
p0 1717 ± 3299
100
50
0
−50
−100
−150
pull
Entries 82
Mean −70.06
Std Dev 0
2
1
0
−1
−2
−3

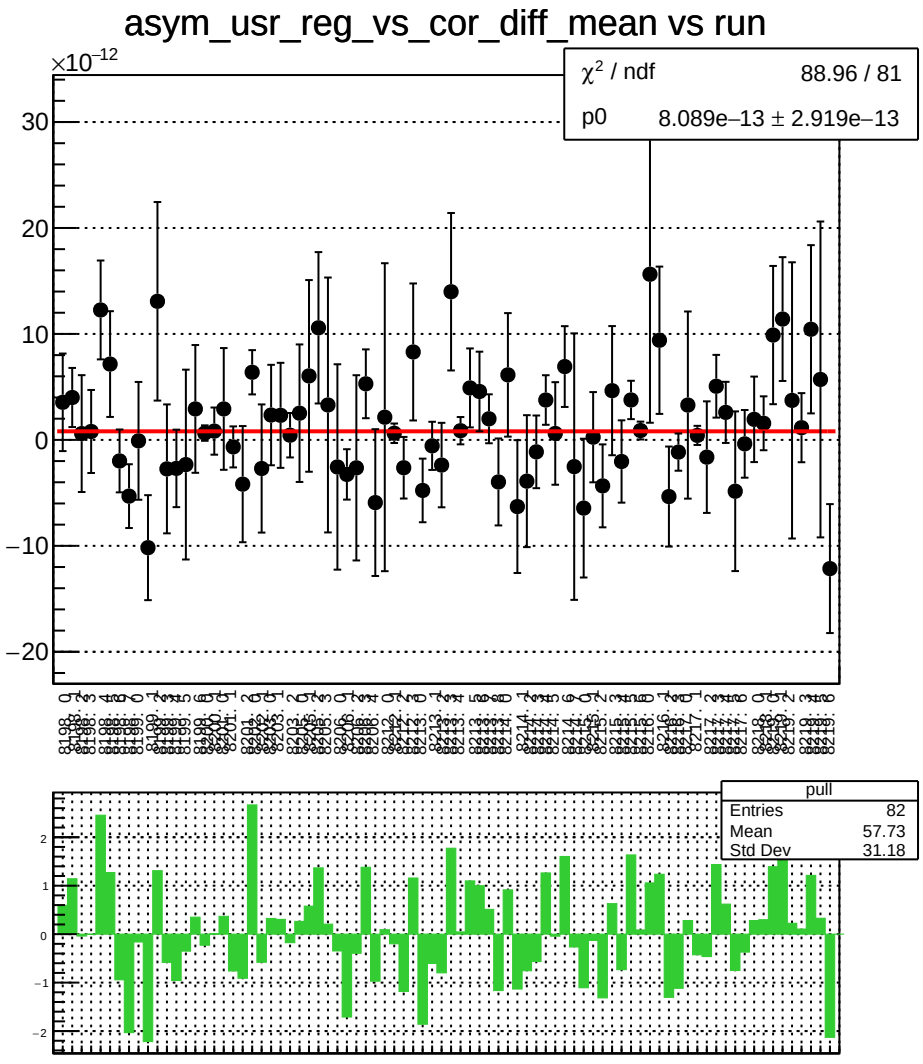

pull1D
Entries 82
Mean −0.01044
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

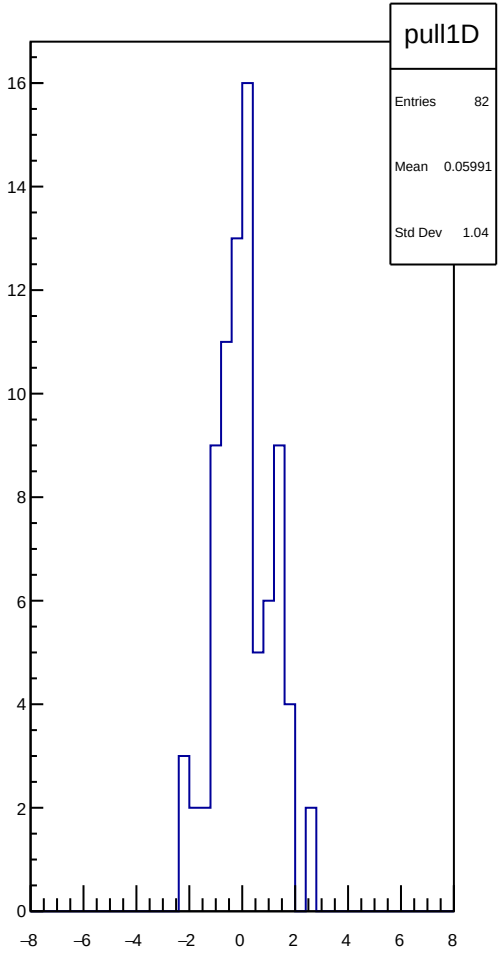

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 5322 / 81
p0 2966 ± 2.333
3400
3300
3200
3100
3000
2900
2800
2700
2600

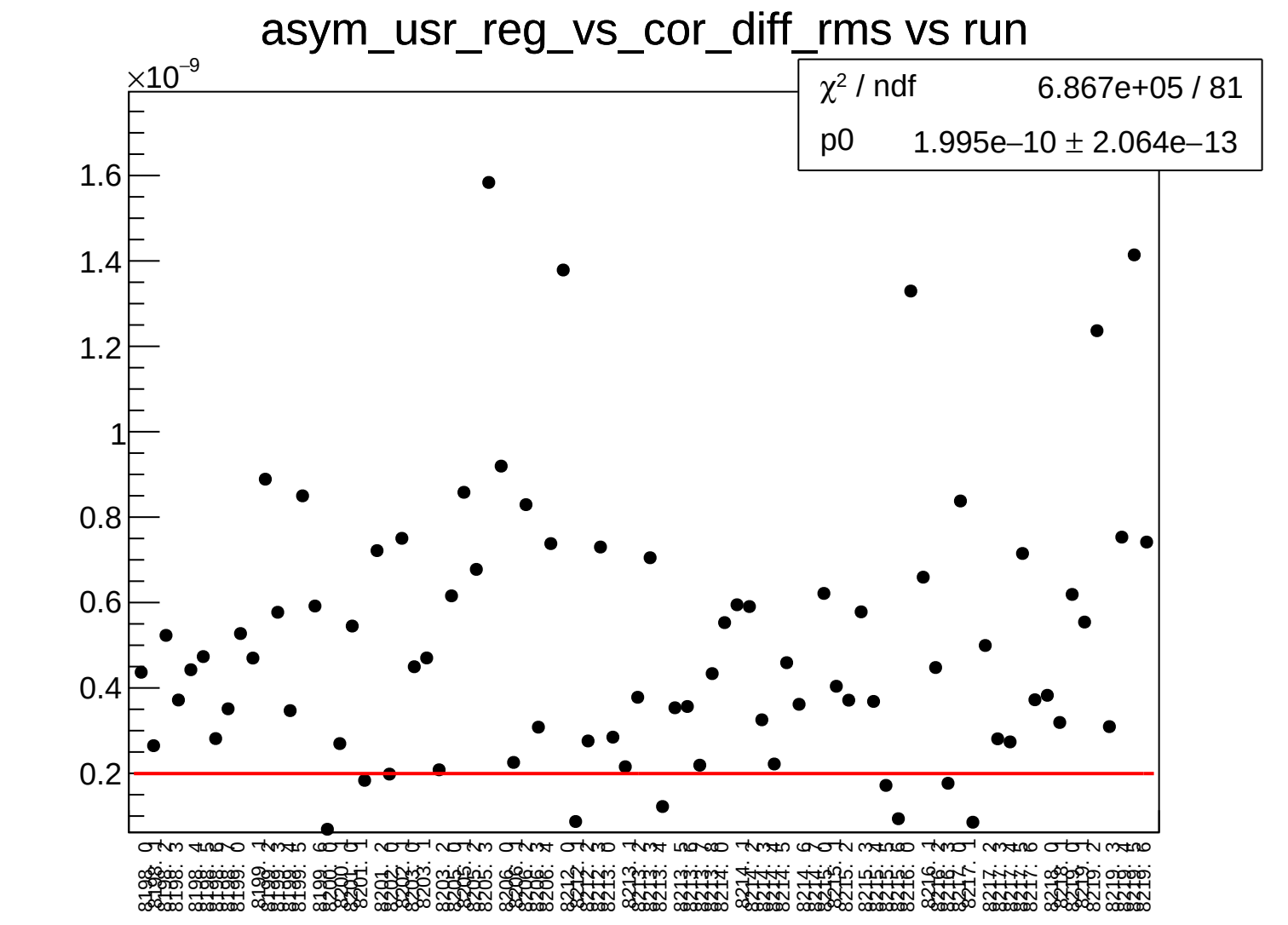

asym_usr_mean vs run
×10^3
χ² / ndf 94.65 / 81
p0 −426.3 ± 3535
150
100
50
0
−50
−100
pull
Entries 82
Mean −118.3
Std Dev 0
3
2
1
0
−1
−2

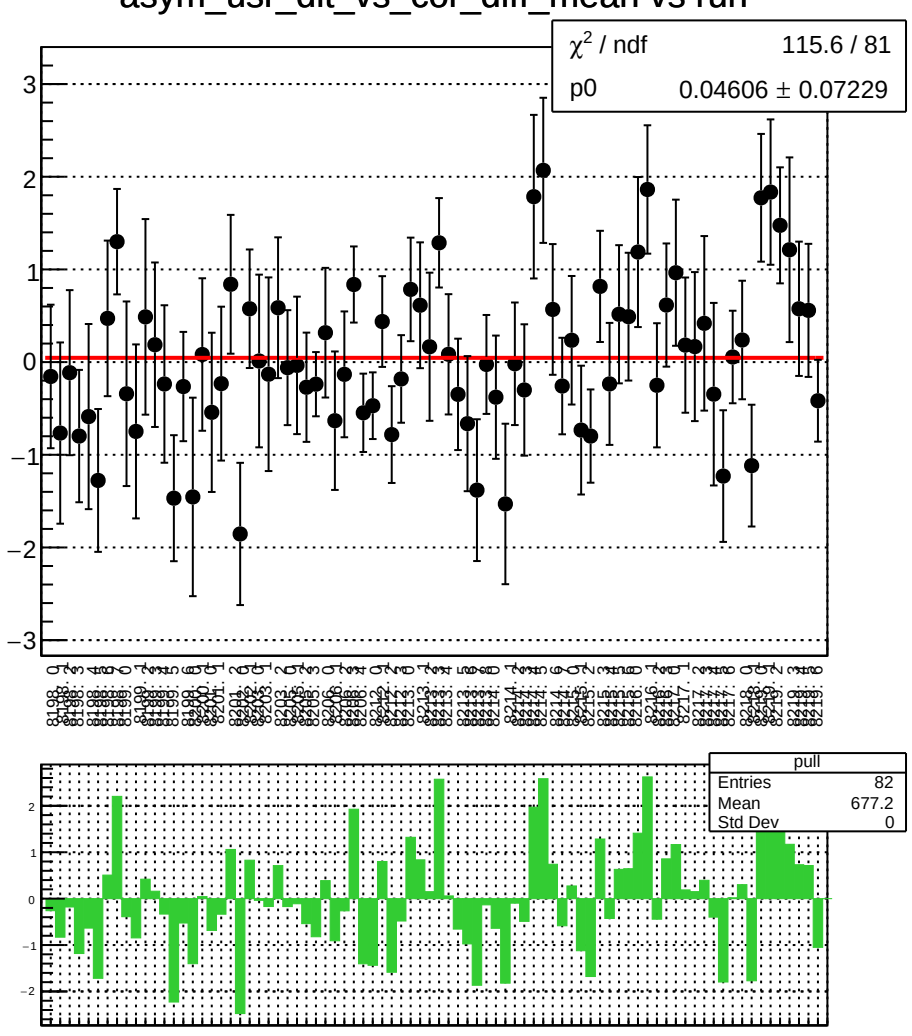

pull1D
Entries 82
Mean 0.009858
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

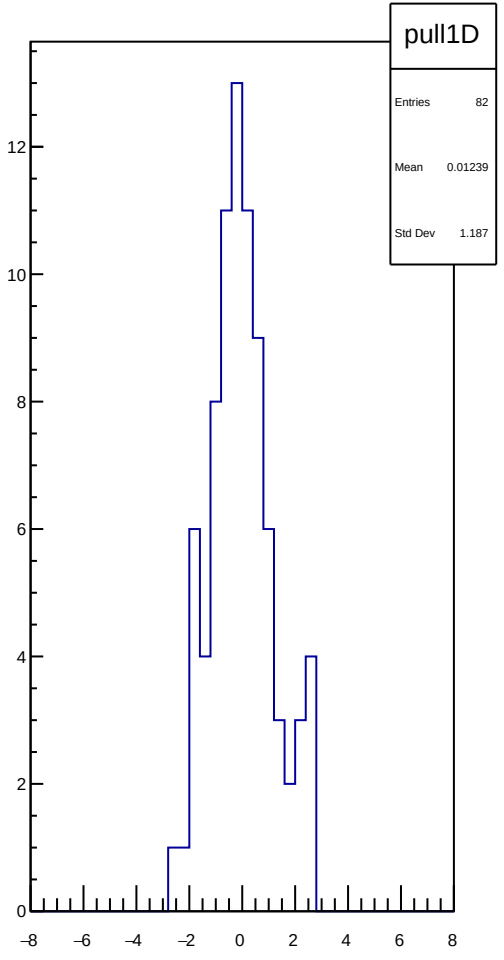

asym_usr_rms vs run
χ² / ndf 4555 / 81
p0 3179 ± 2.5
3500
3400
3300
3200
3100
3000
2900

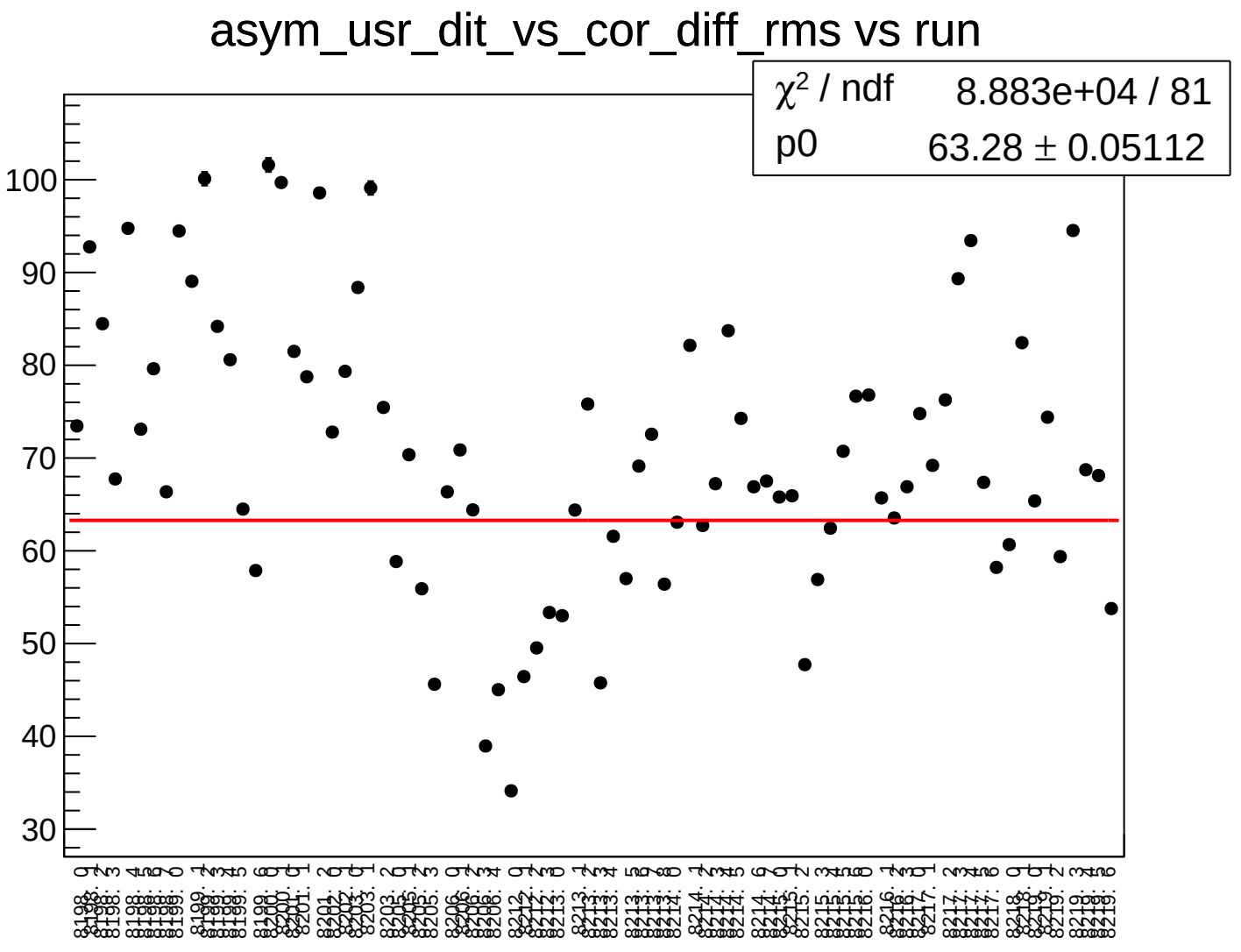

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.96 / 81
p0 8.089e−13 ± 2.919e−13
pull
Entries 82
Mean 57.73
Std Dev 31.18

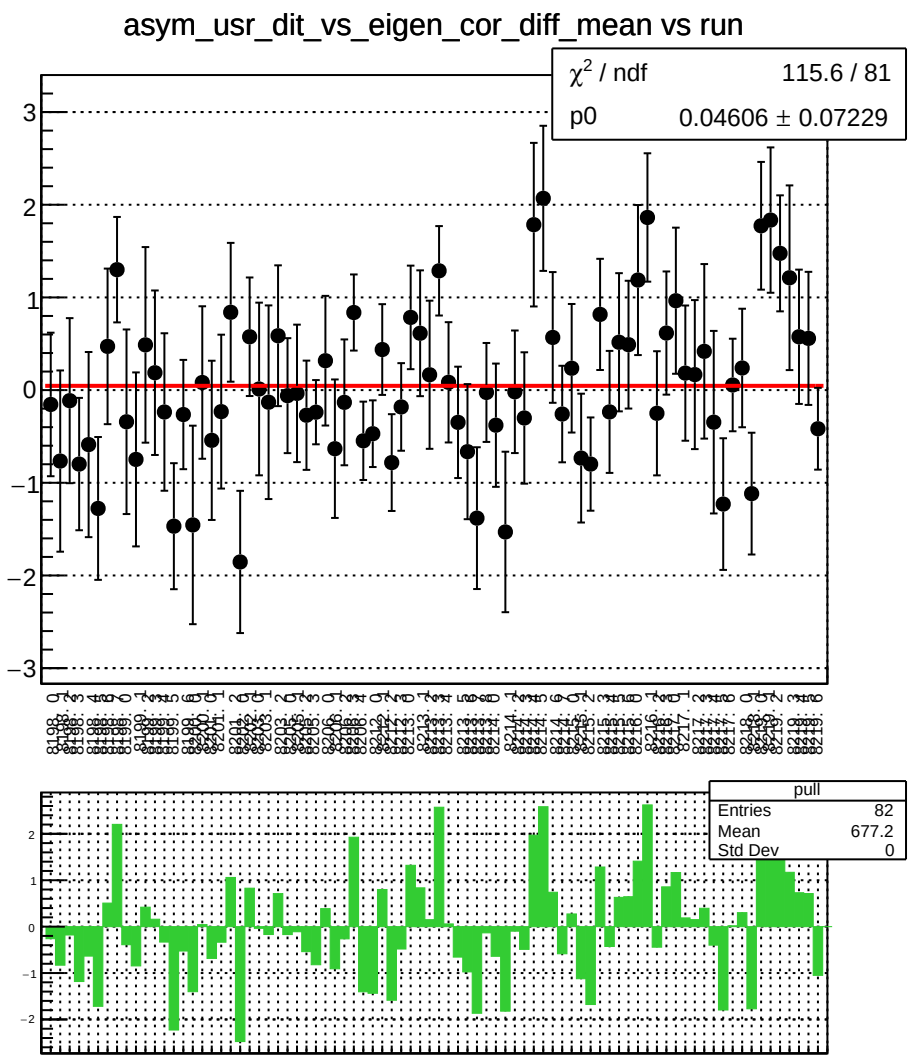

pull1D
Entries 82
Mean 0.05991
Std Dev 1.04

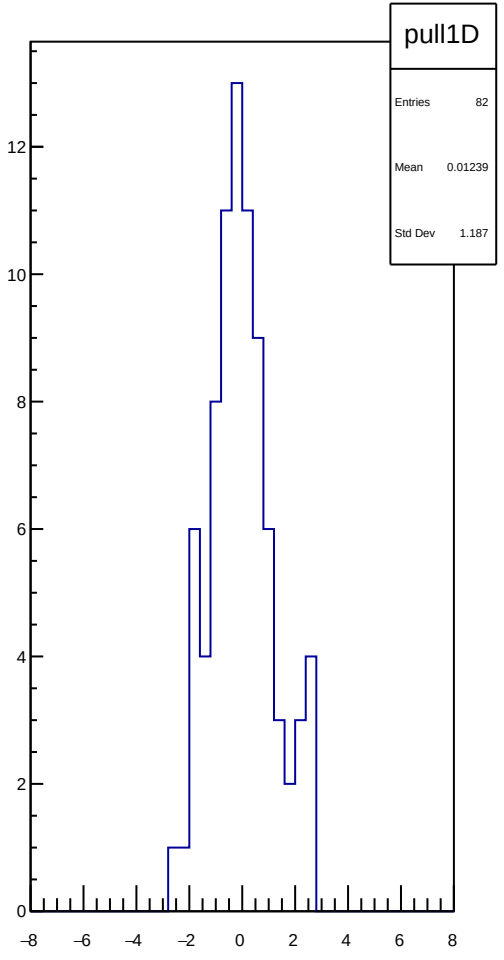

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.867e+05 / 81
p0 1.995e−10 ± 2.064e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

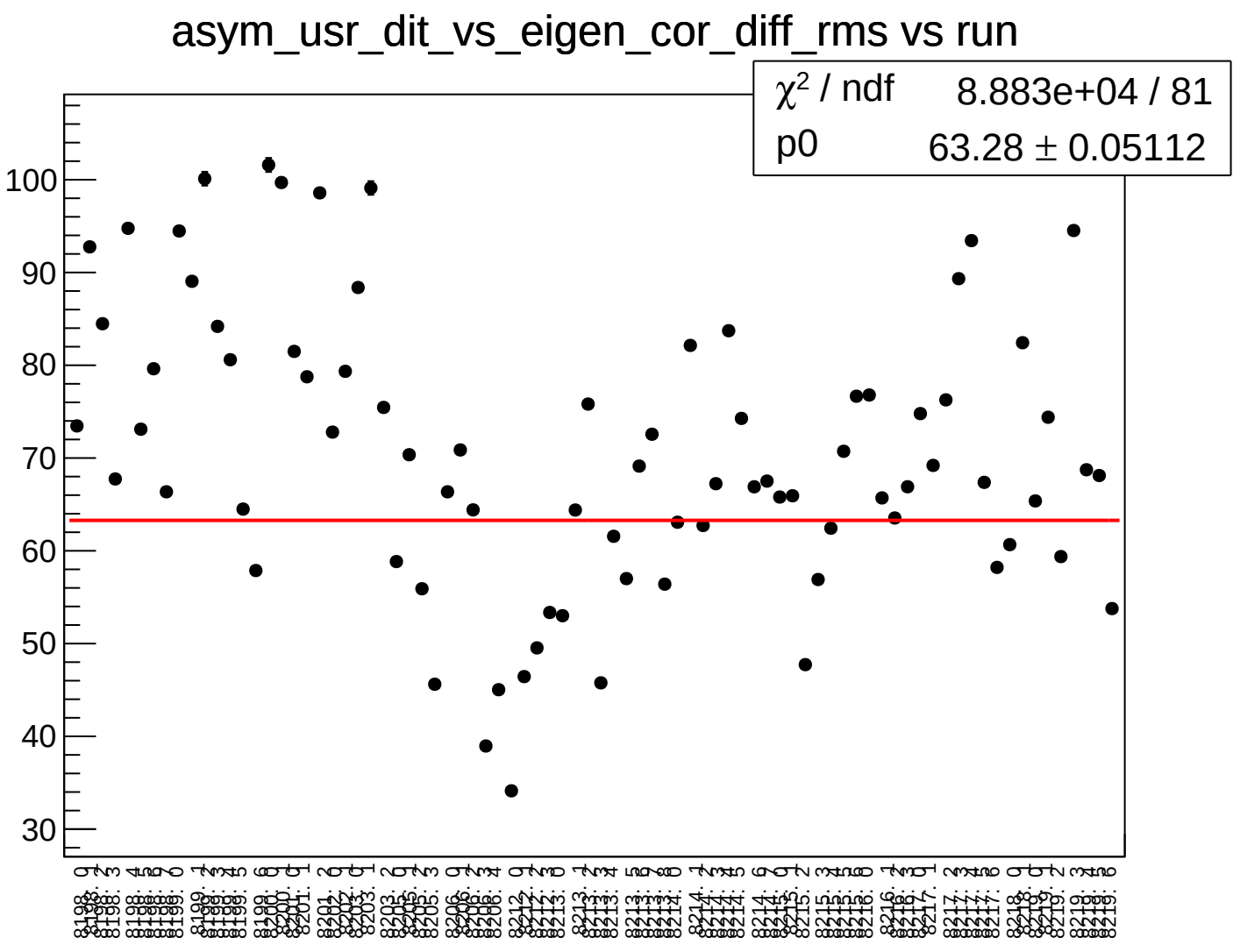

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 115.6 / 81
p0 0.04606 ± 0.07229
pull
Entries 82
Mean 677.2
Std Dev 0

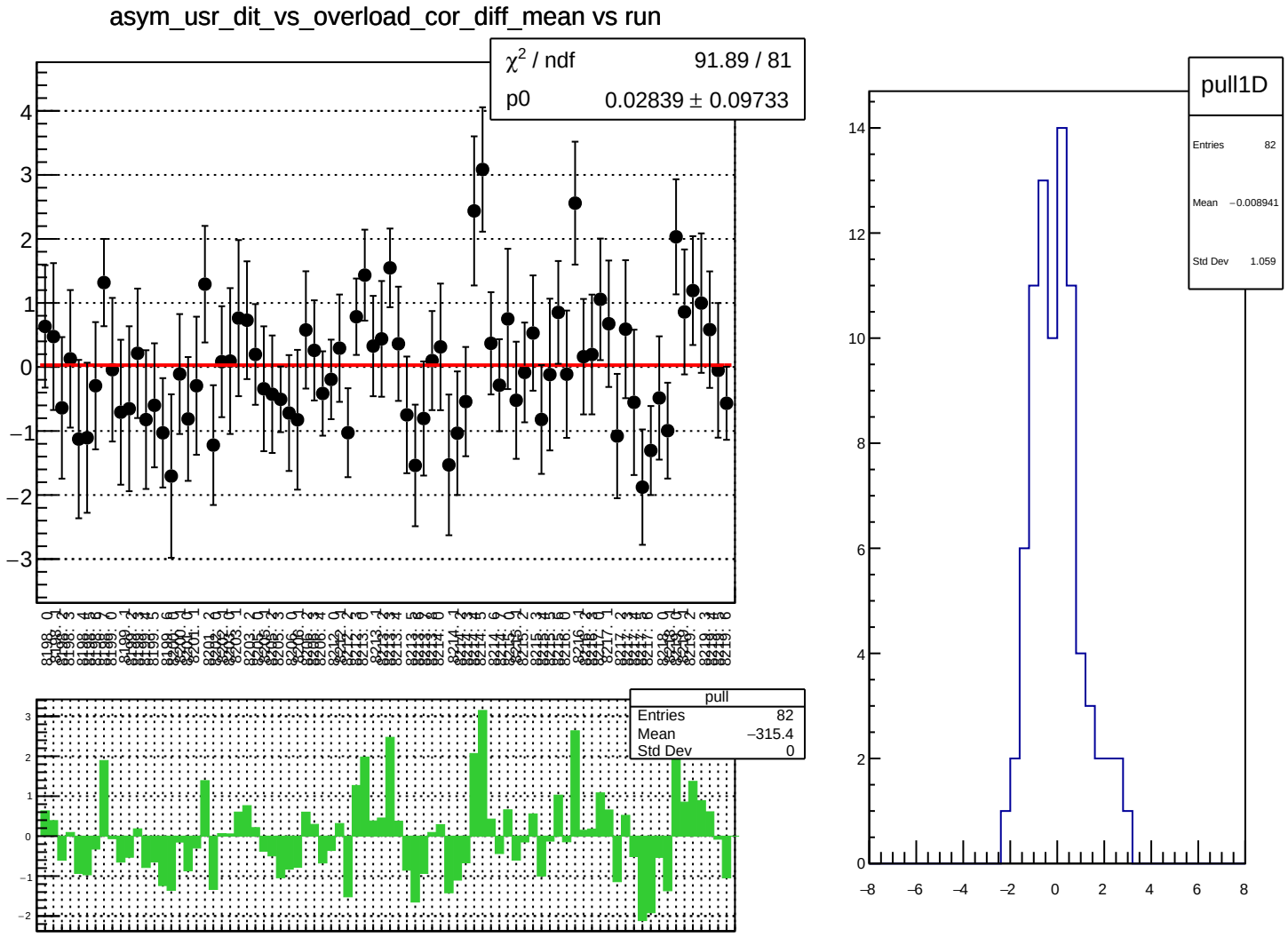

pull1D
Entries 82
Mean 0.01239
Std Dev 1.187

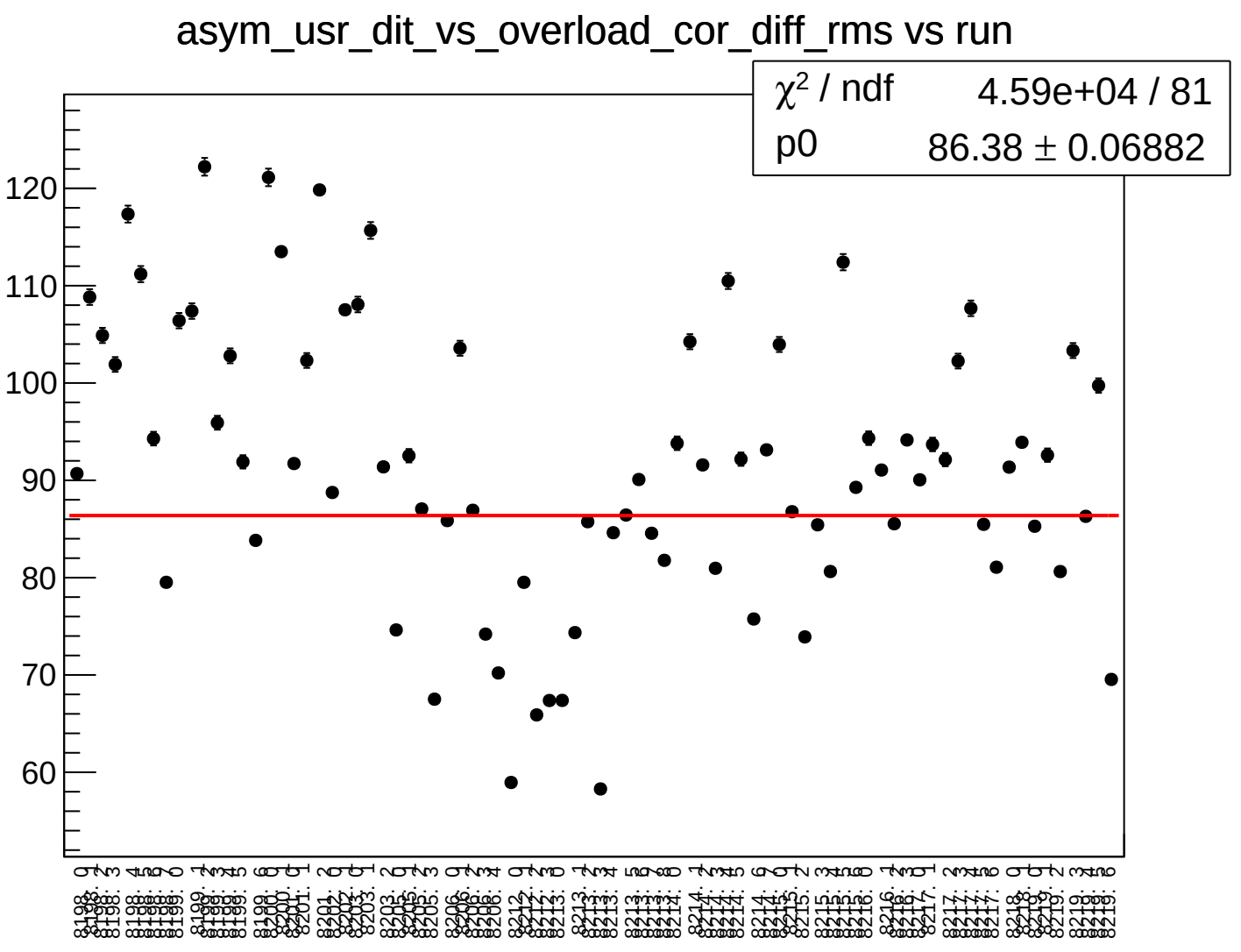

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 8.883e+04 / 81
p0 63.28 ± 0.05112
100
90
80
70
60
50
40
30

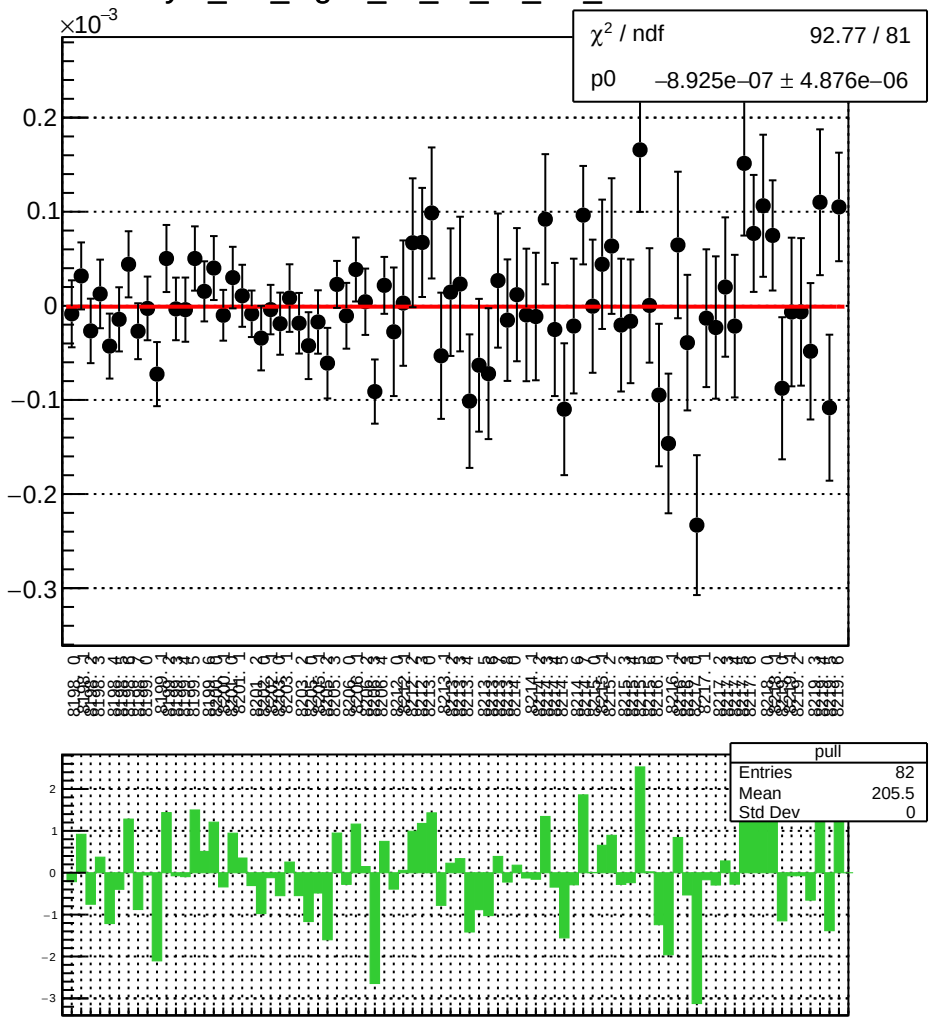

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.6 / 81
p0 0.04606 ± 0.07229
pull
Entries 82
Mean 677.2
Std Dev 0

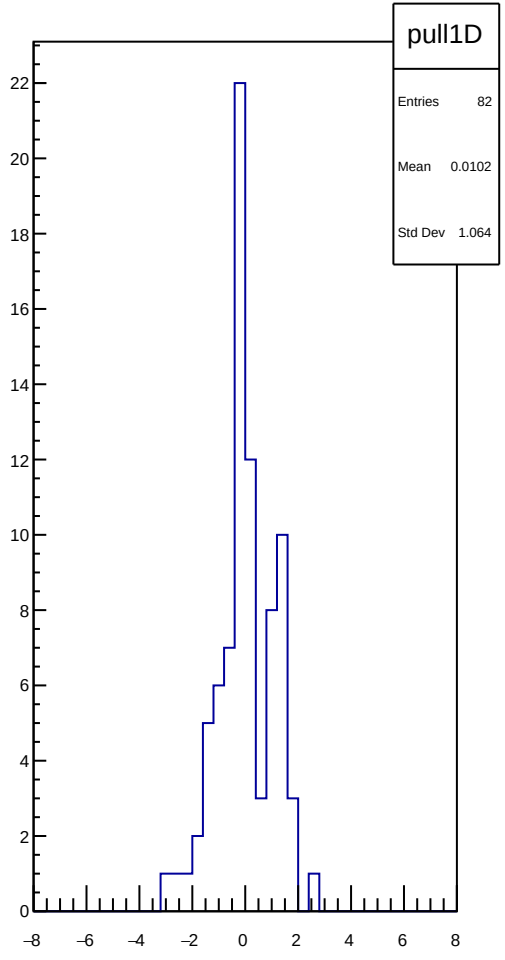

pull1D
Entries 82
Mean 0.01239
Std Dev 1.187

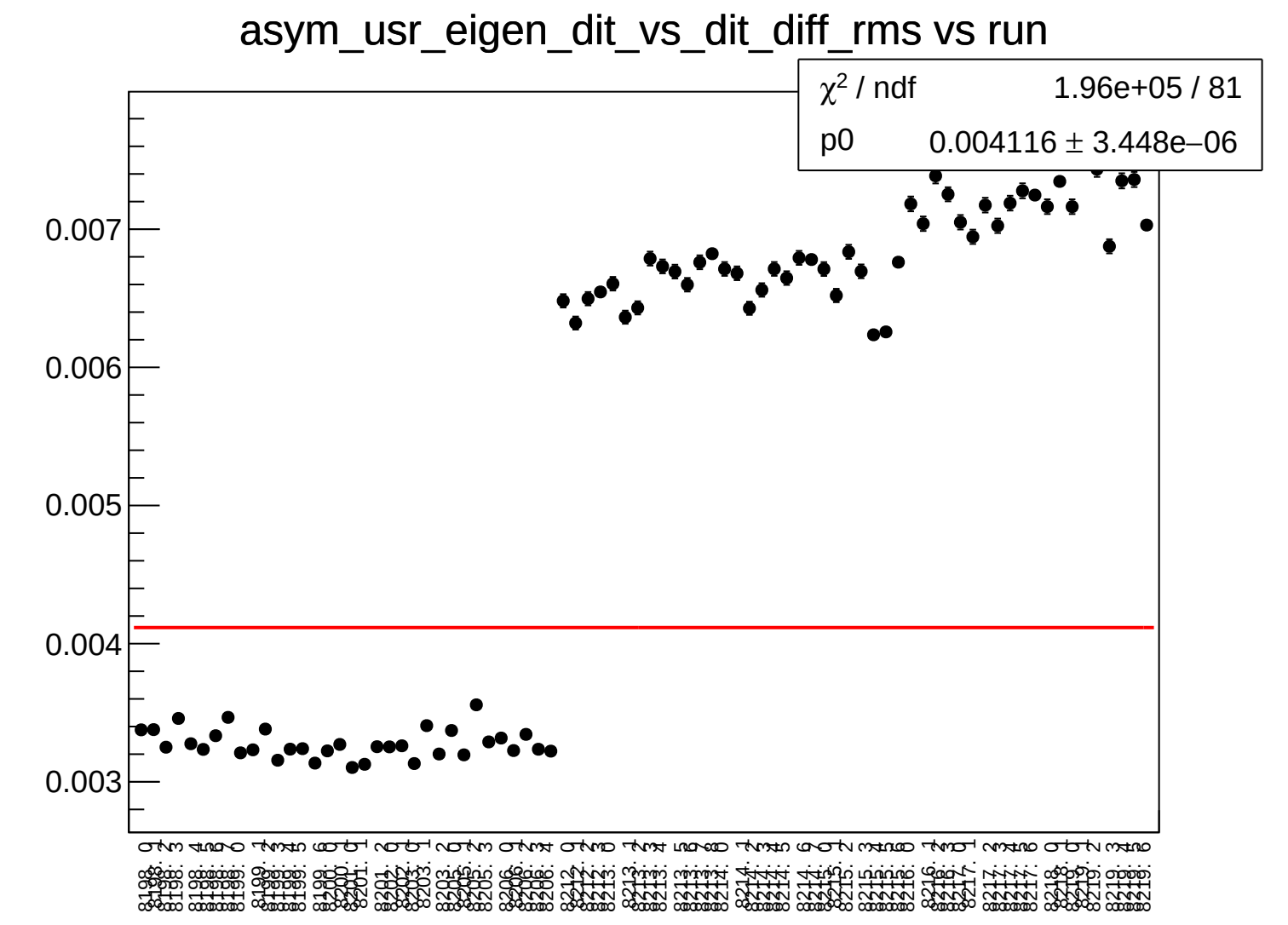

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.883e+04 / 81
p0 63.28 ± 0.05112
100
90
80
70
60
50
40
30

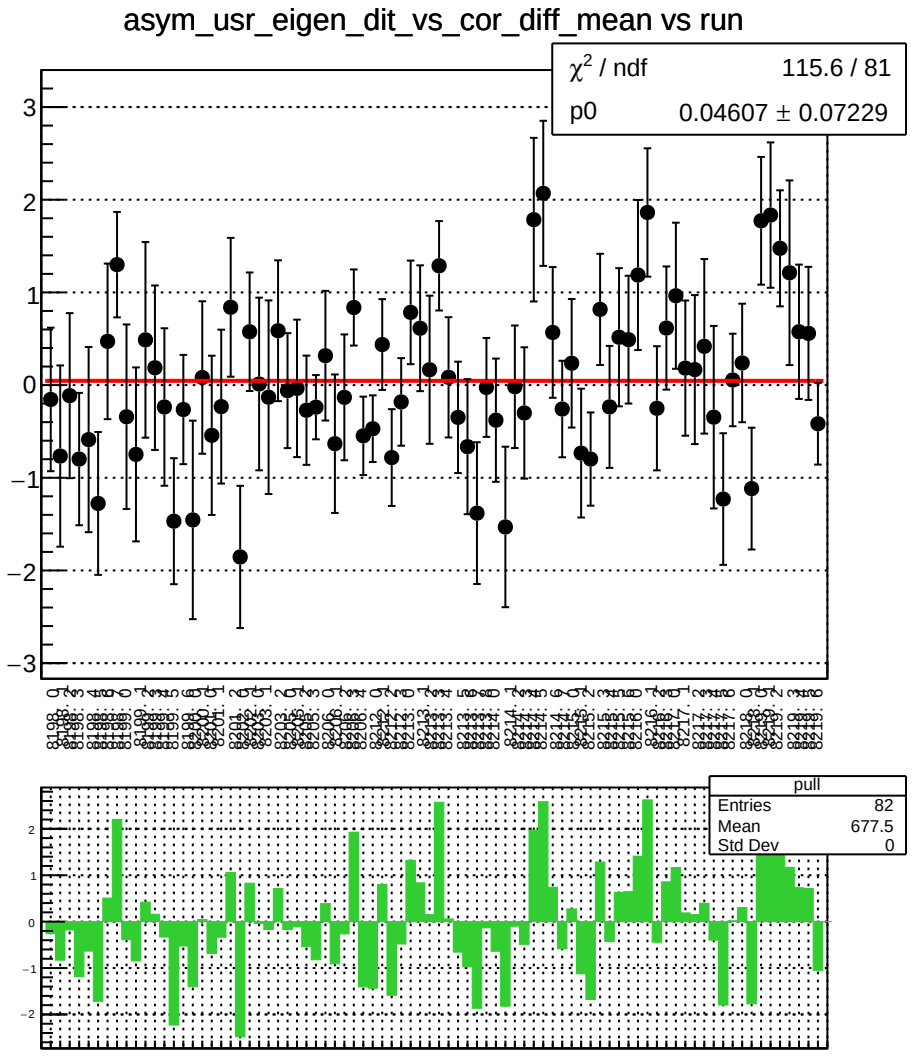

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 91.89 / 81
p0 0.02839 ± 0.09733
pull
Entries 82
Mean −315.4
Std Dev 0
pull1D
Entries 82
Mean −0.008941
Std Dev 1.059

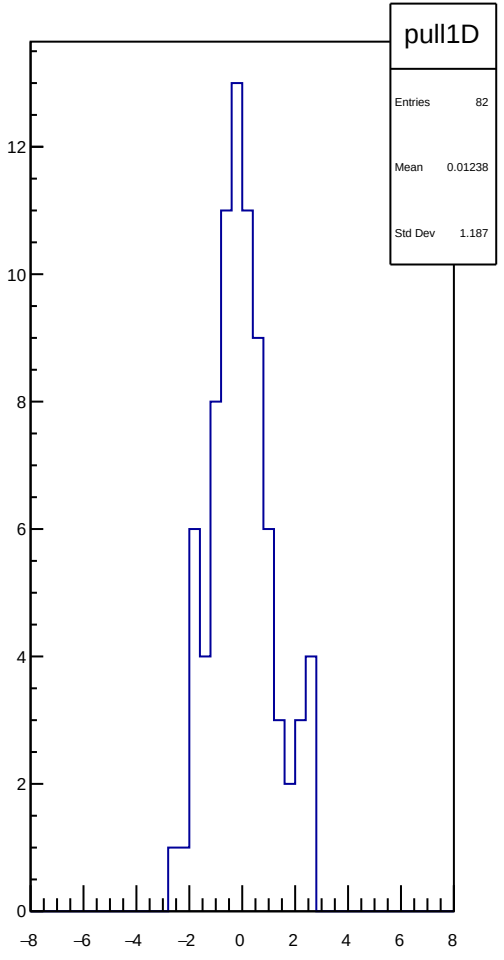

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.59e+04 / 81
p0 86.38 ± 0.06882
120
110
100
90
80
70
60

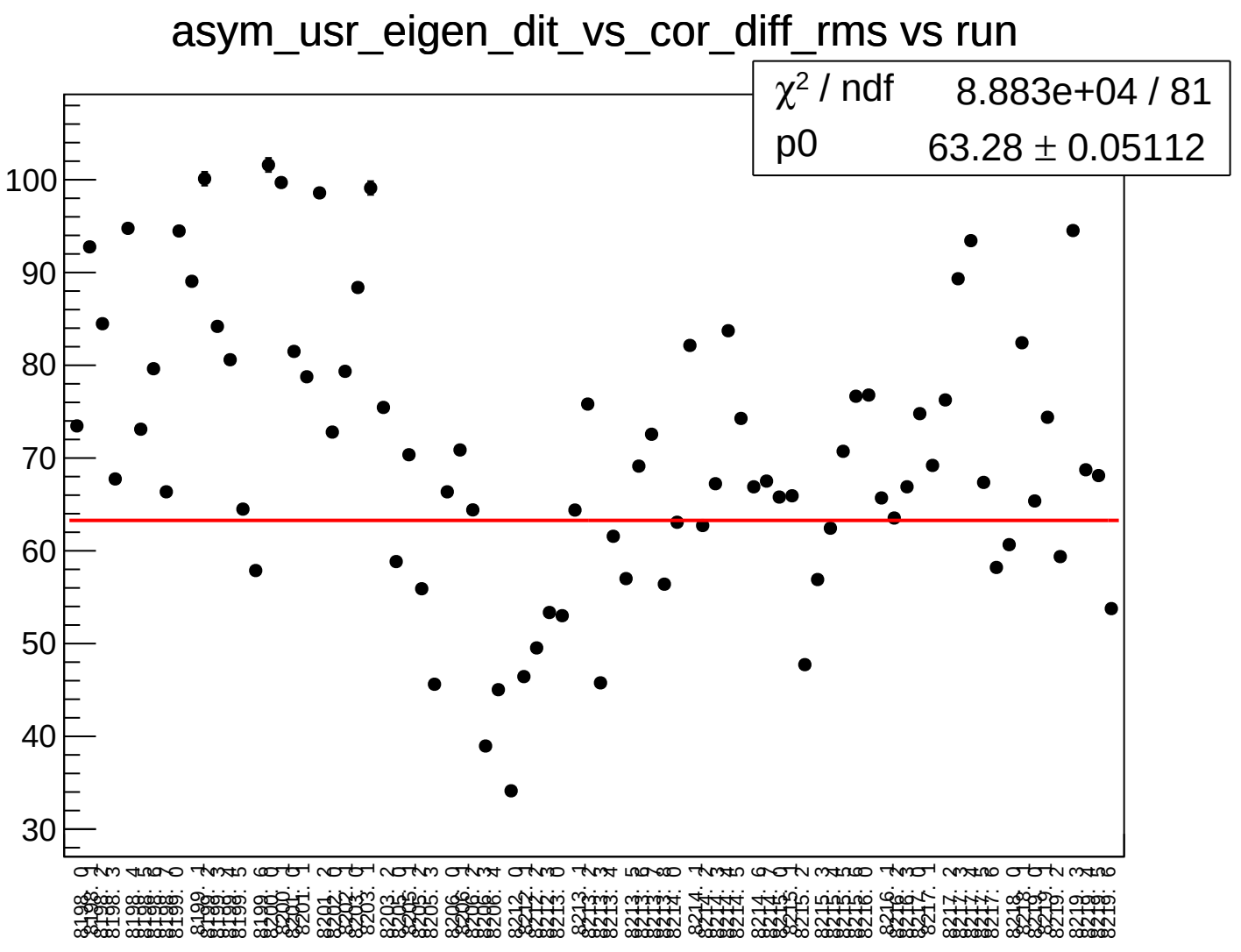

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 92.77 / 81
p0 −8.925e−07 ± 4.876e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 82
Mean 205.5
Std Dev 0
2
1
0
−1
−2
−3

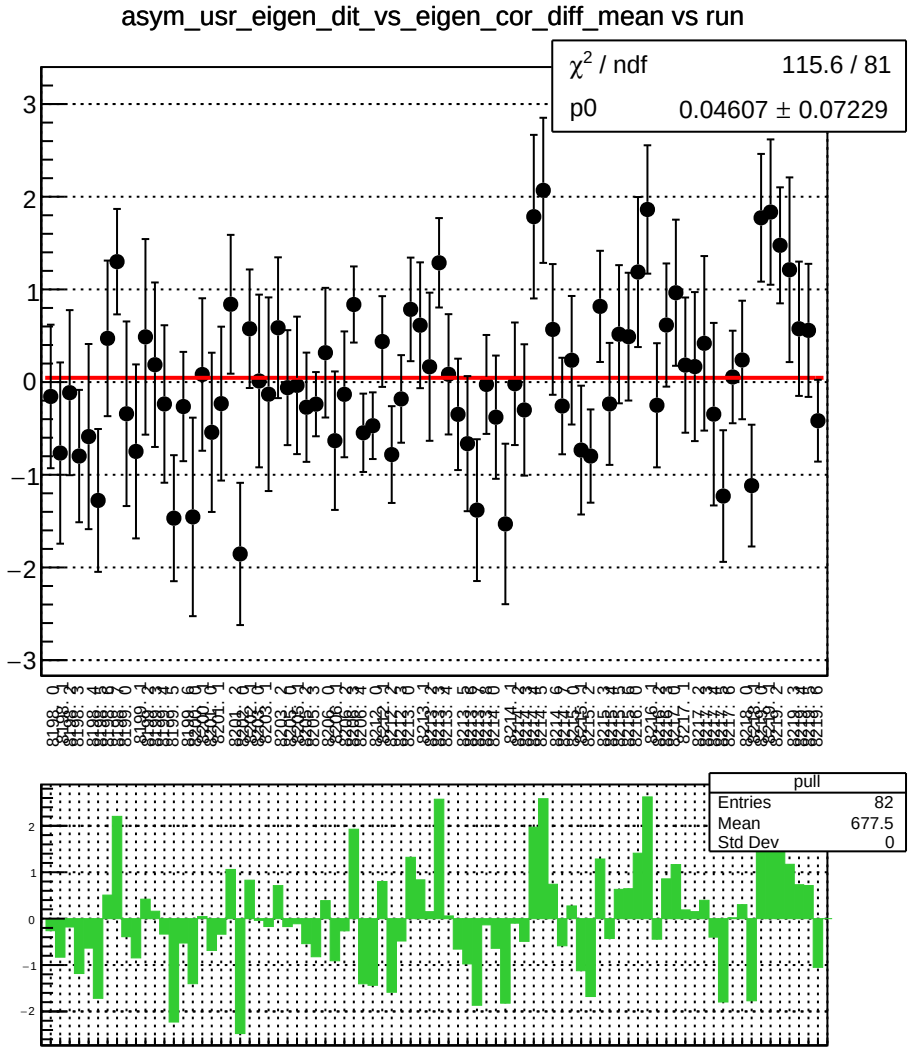

pull1D
Entries 82
Mean 0.0102
Std Dev 1.064
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

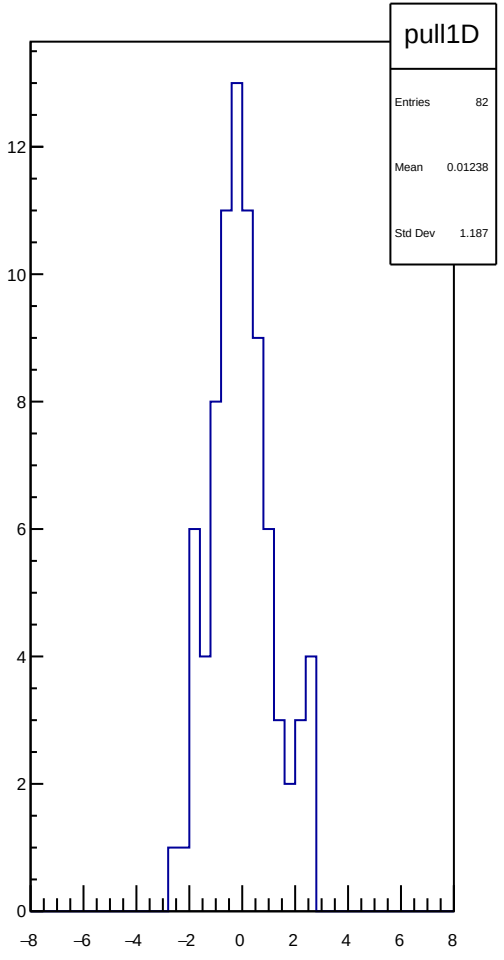

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.96e+05 / 81
p0 0.004116 ± 3.448e−06
0.007
0.006
0.005
0.004
0.003

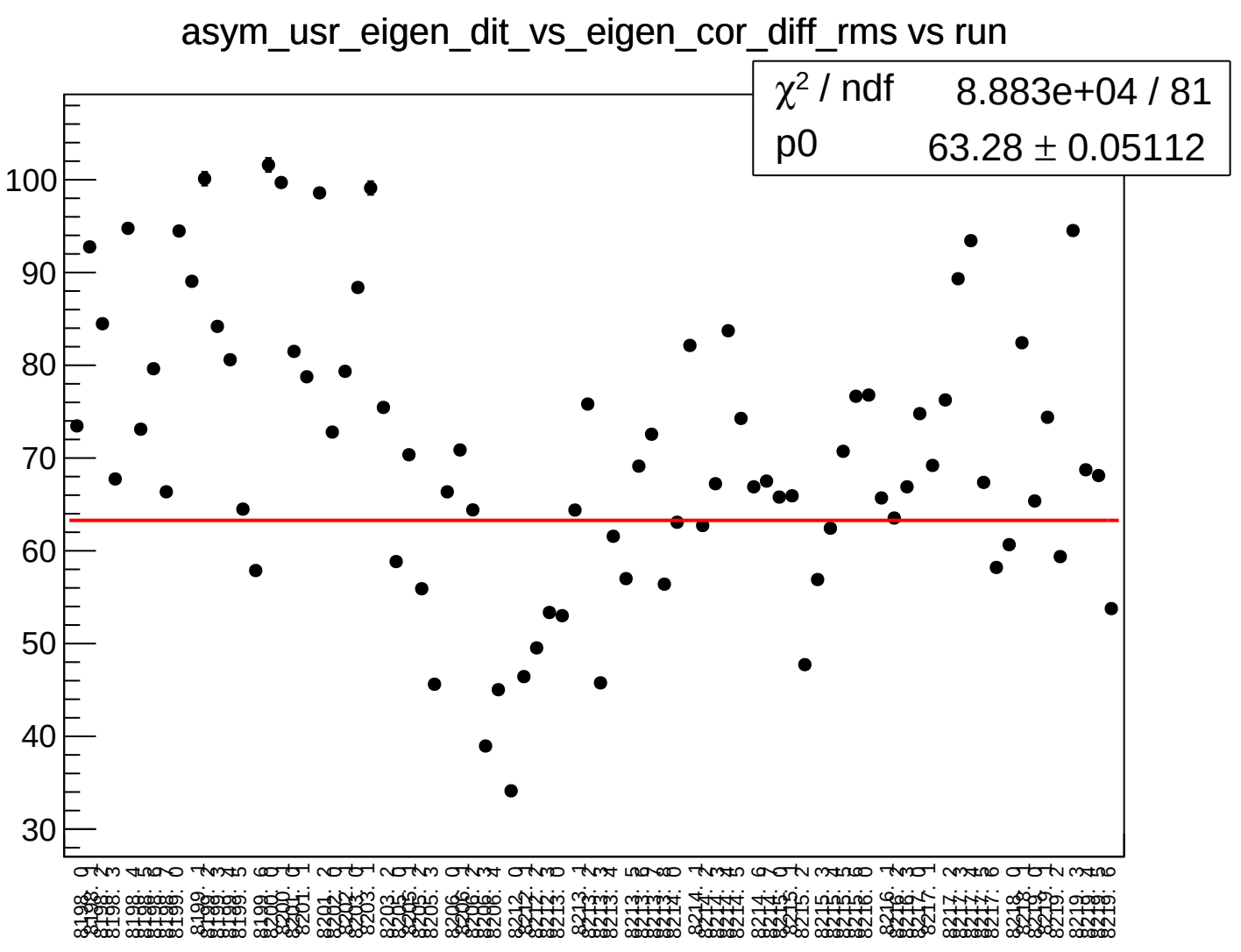

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.6 / 81
p0 0.04607 ± 0.07229
pull
Entries 82
Mean 677.5
Std Dev 0

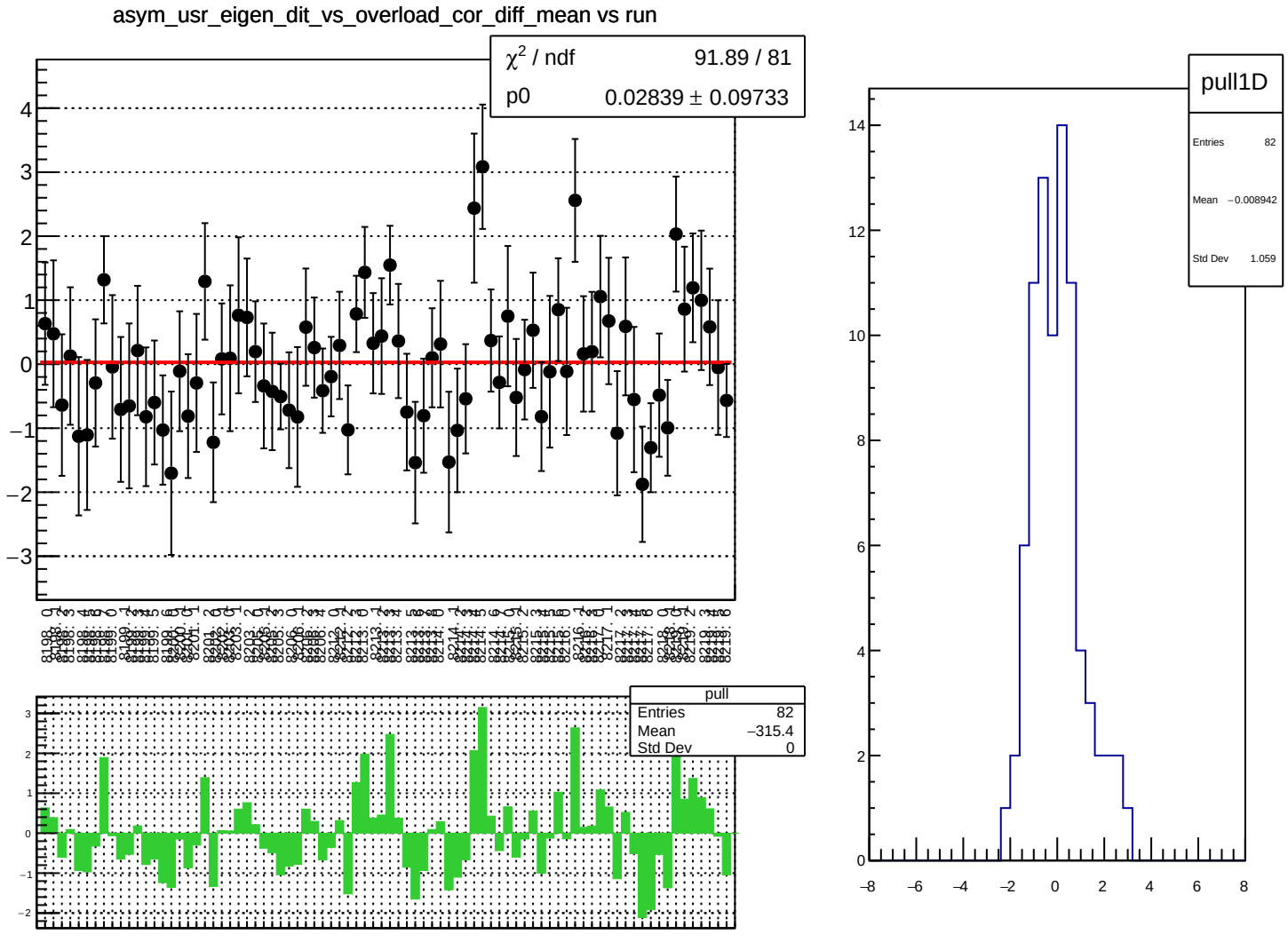

pull1D
Entries 82
Mean 0.01238
Std Dev 1.187

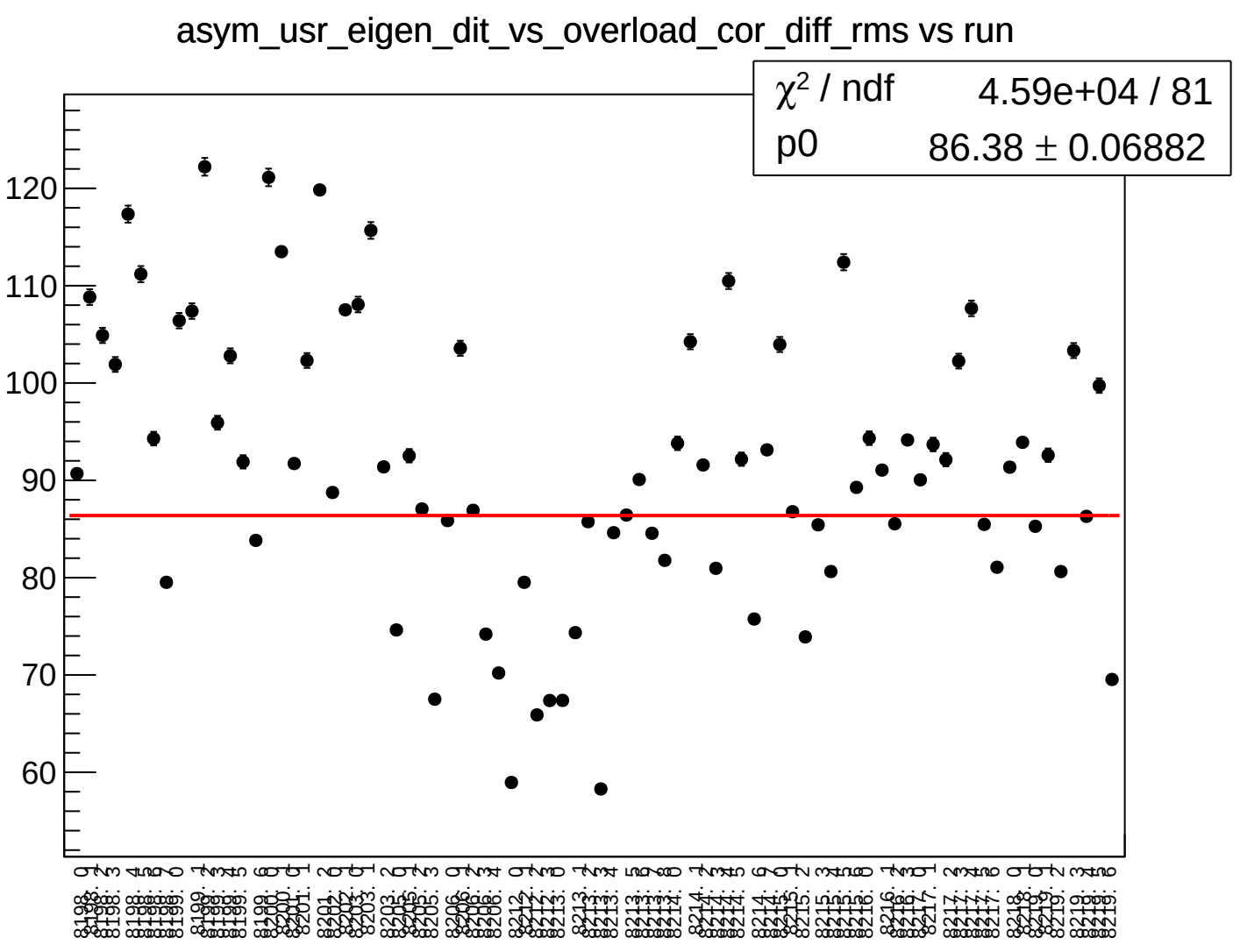

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.883e+04 / 81
p0 63.28 ± 0.05112
100
90
80
70
60
50
40
30

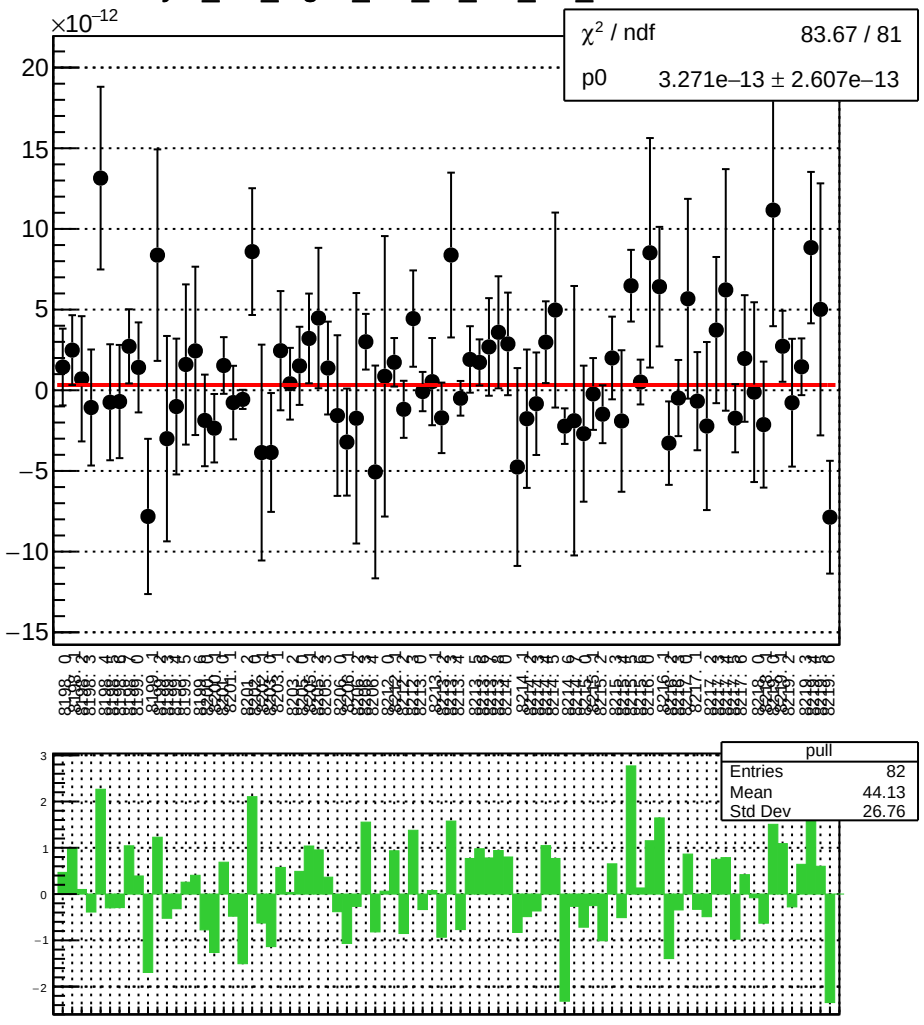

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.6 / 81
p0 0.04607 ± 0.07229
pull
Entries 82
Mean 677.5
Std Dev 0

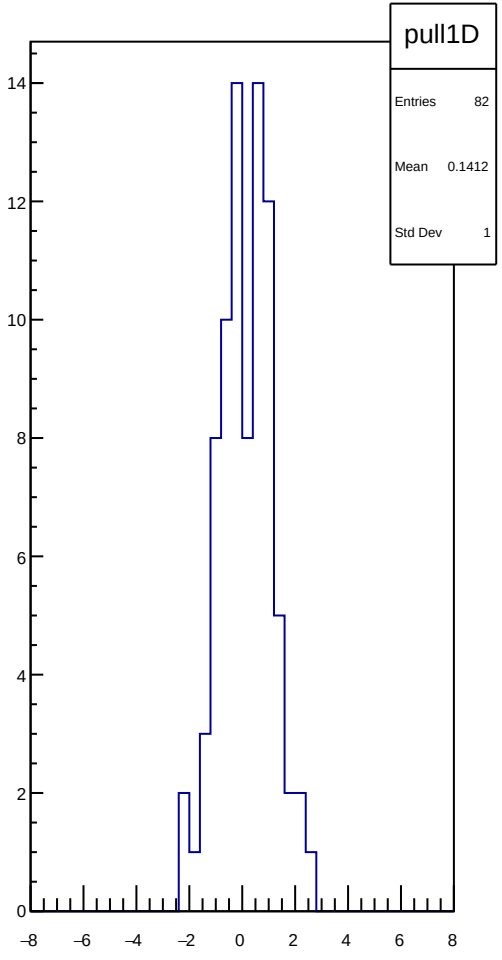

pull1D
Entries 82
Mean 0.01238
Std Dev 1.187

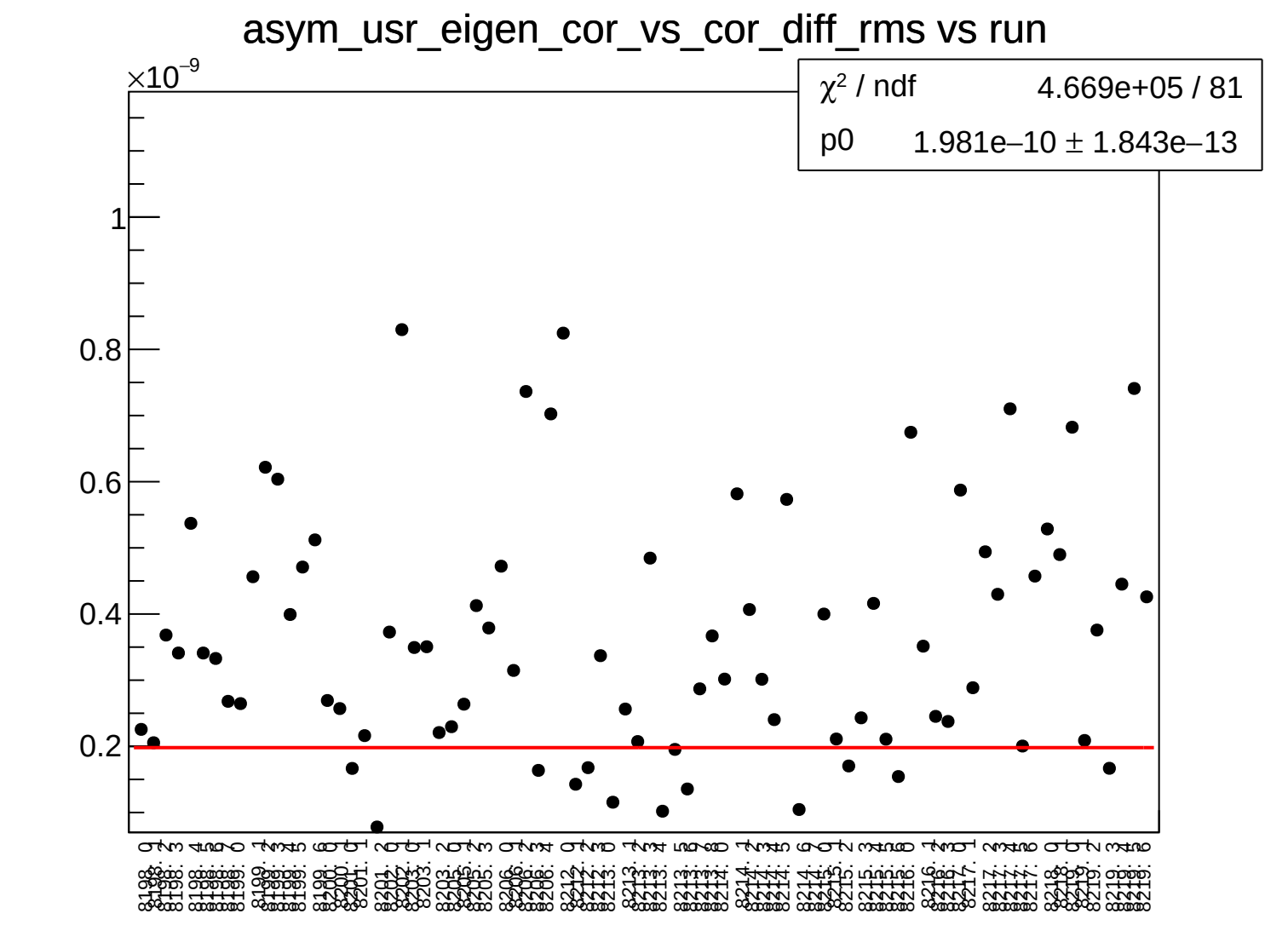

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.883e+04 / 81
p0 63.28 ± 0.05112
100
90
80
70
60
50
40
30

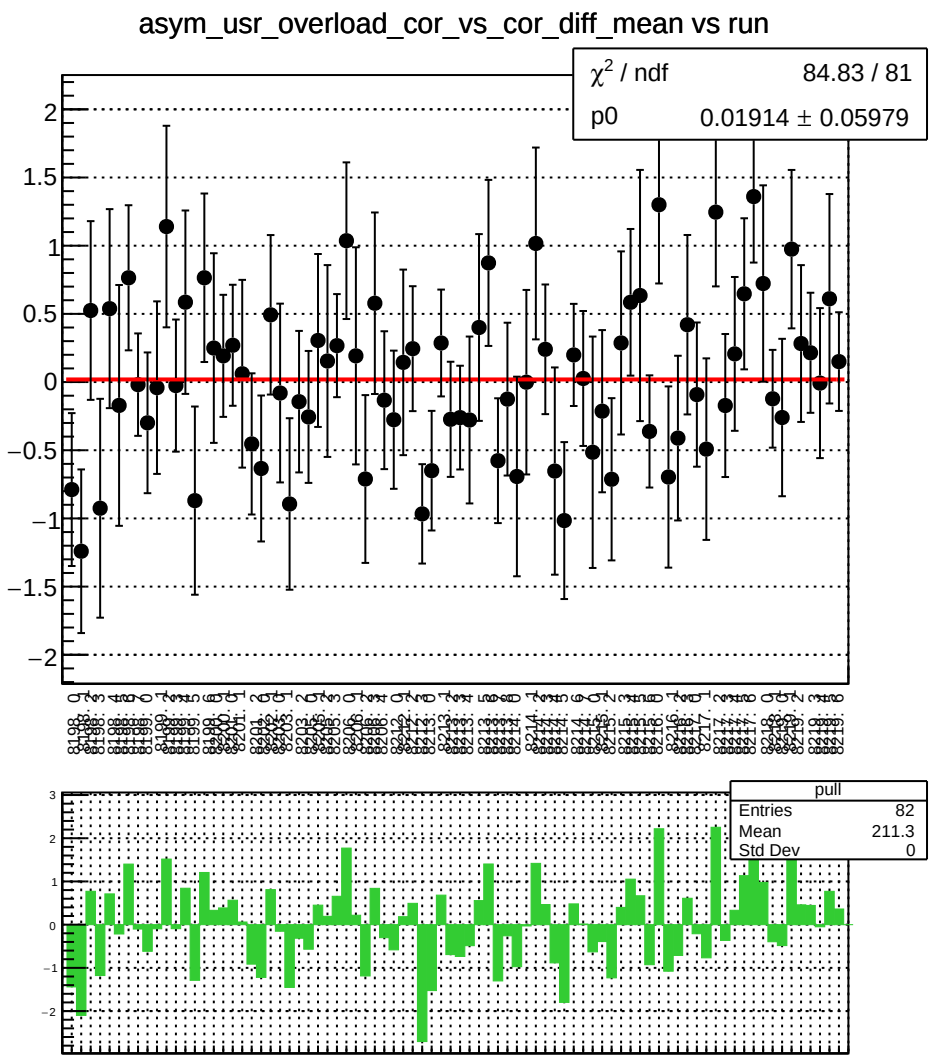

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 91.89 / 81
p0 0.02839 ± 0.09733
pull
Entries 82
Mean −315.4
Std Dev 0
pull1D
Entries 82
Mean −0.008942
Std Dev 1.059

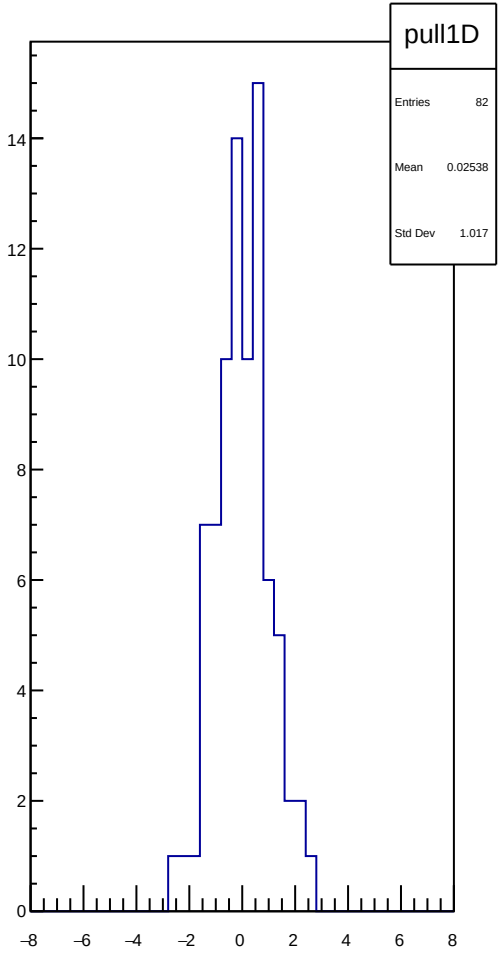

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.59e+04 / 81
p0 86.38 ± 0.06882
120
110
100
90
80
70
60

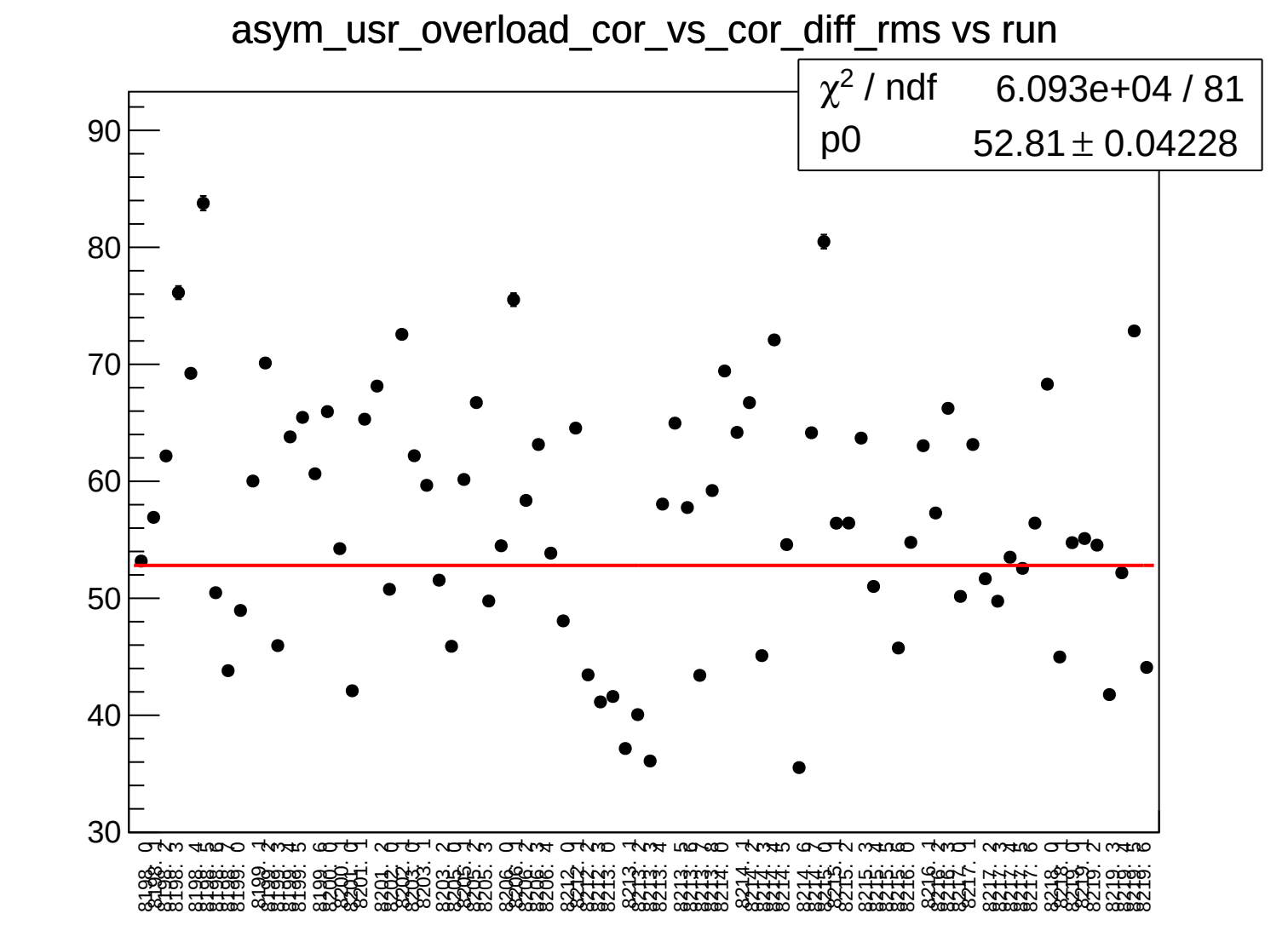

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.67 / 81
p0 3.271e−13 ± 2.607e−13
pull
Entries 82
Mean 44.13
Std Dev 26.76

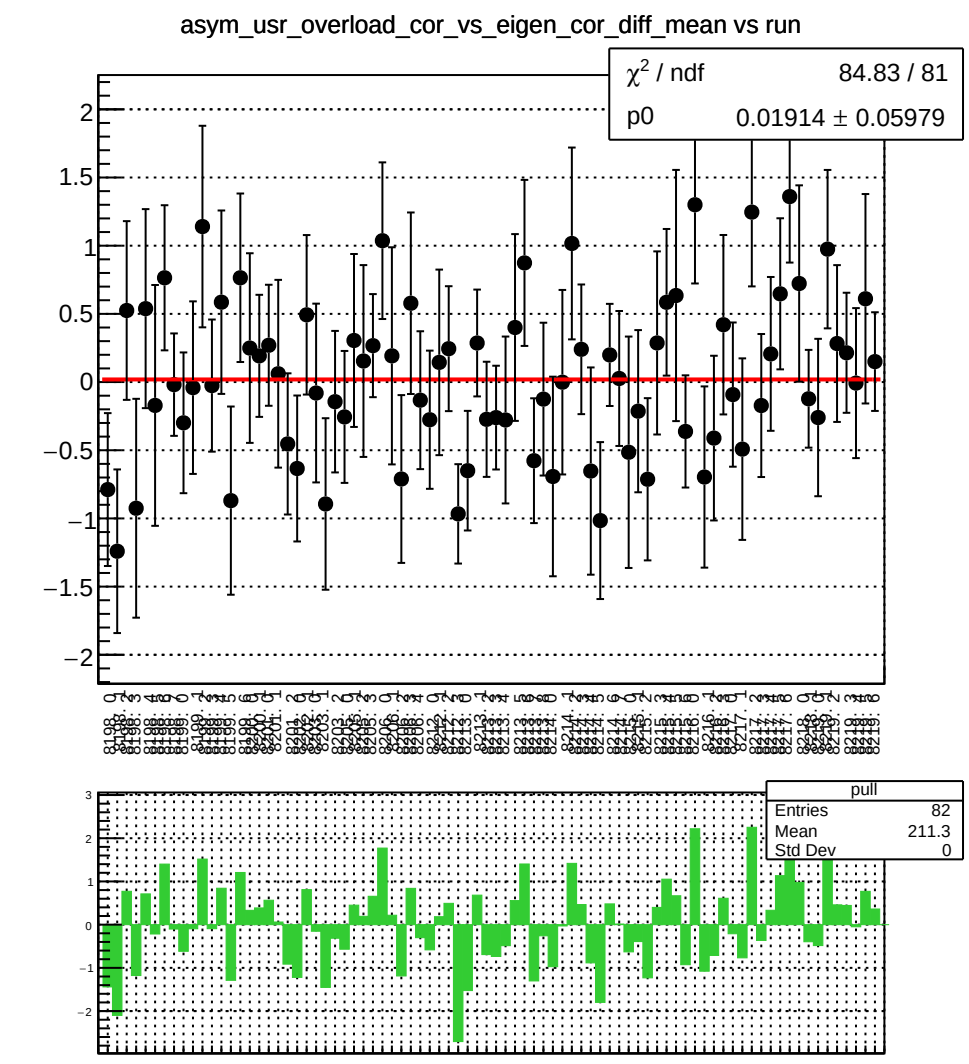

pull1D
Entries 82
Mean 0.1412
Std Dev 1

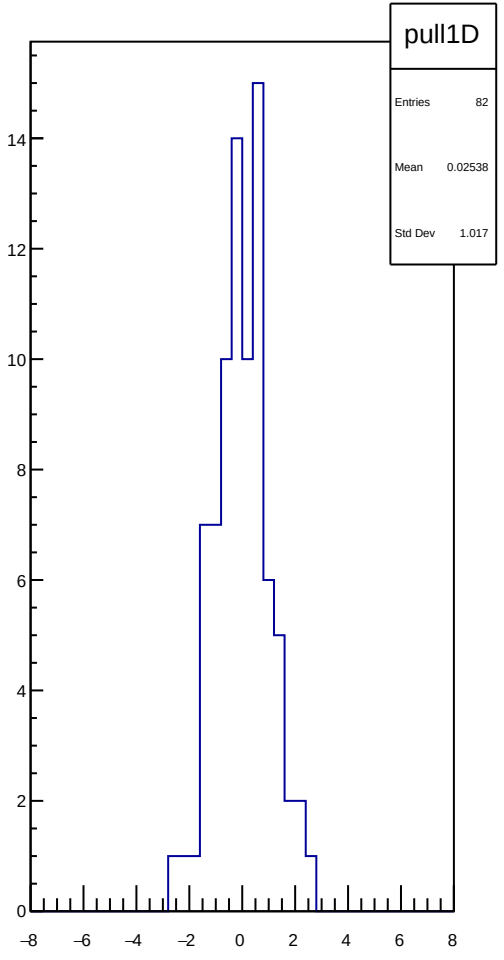

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.669e+05 / 81
p0 1.981e−10 ± 1.843e−13
1
0.8
0.6
0.4
0.2

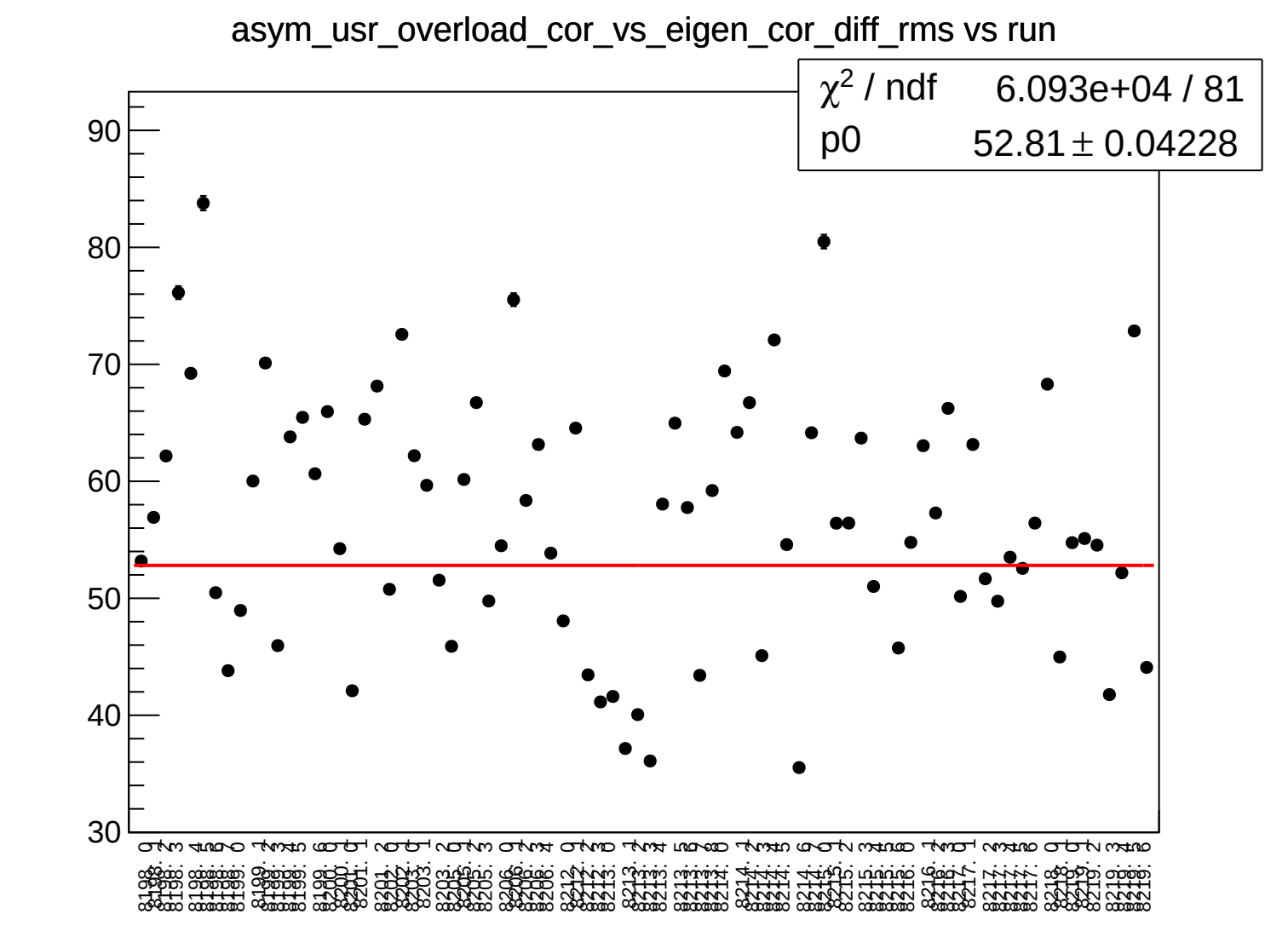

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 84.83 / 81
p0 0.01914 ± 0.05979
pull
Entries 82
Mean 211.3
Std Dev 0

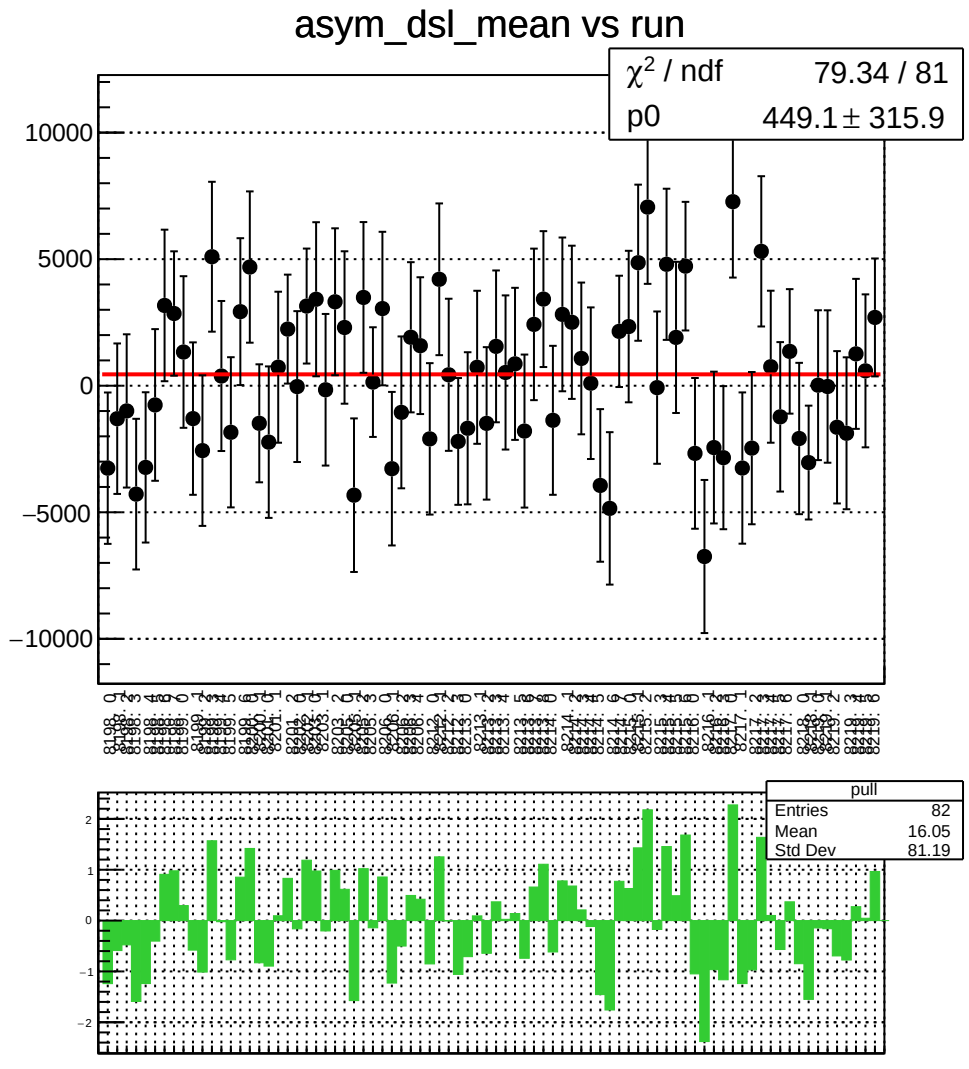

pull1D
Entries 82
Mean 0.02538
Std Dev 1.017

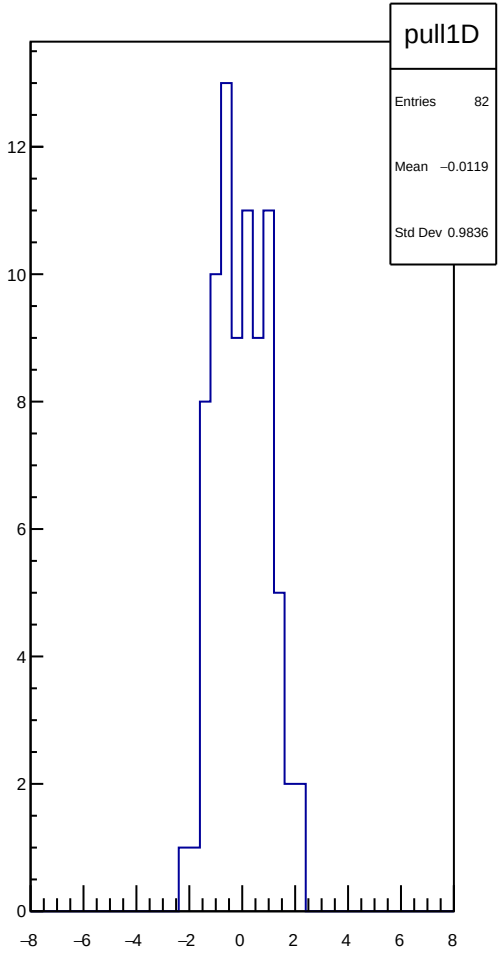

asym_usr_overload_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 6.093e+04 / 81
p0 52.81 ± 0.04228
90
80
70
60
50
40
30

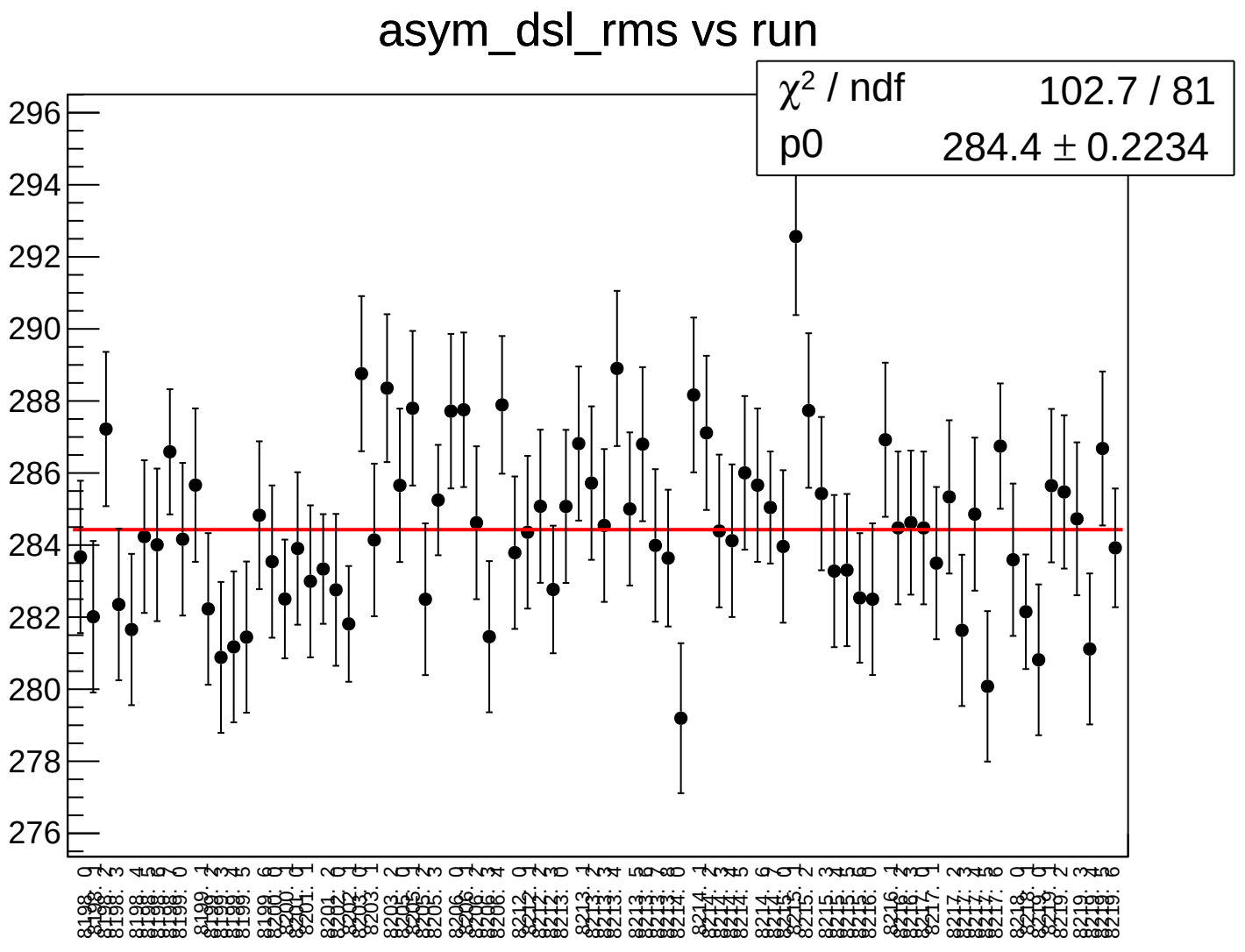

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.83 / 81
p0 0.01914 ± 0.05979
pull
Entries 82
Mean 211.3
Std Dev 0

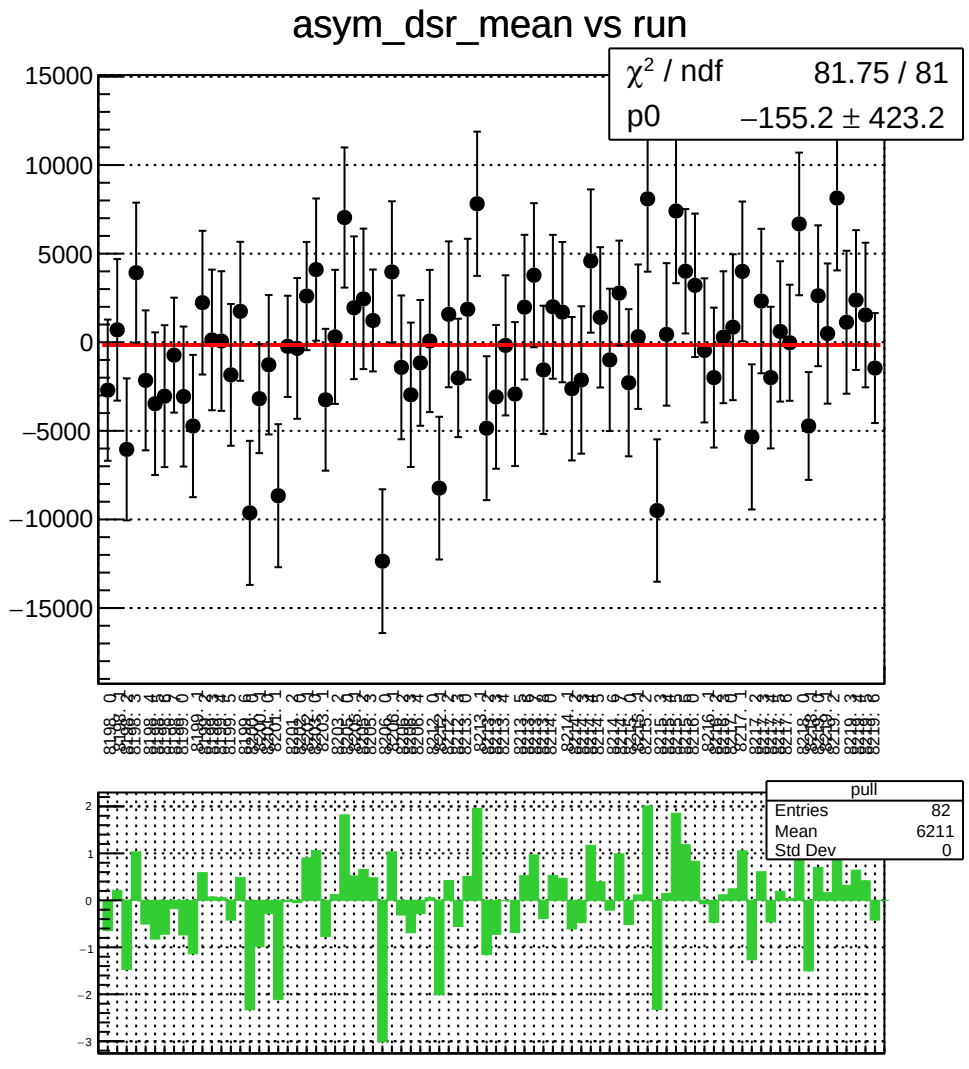

pull1D
Entries 82
Mean 0.02538
Std Dev 1.017

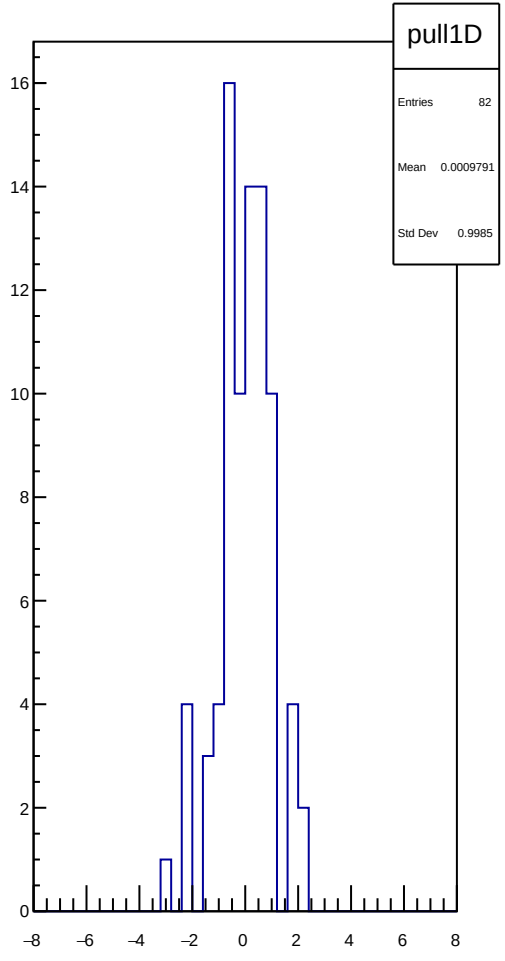

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 6.093e+04 / 81
p0 52.81 ± 0.04228
90
80
70
60
50
40
30

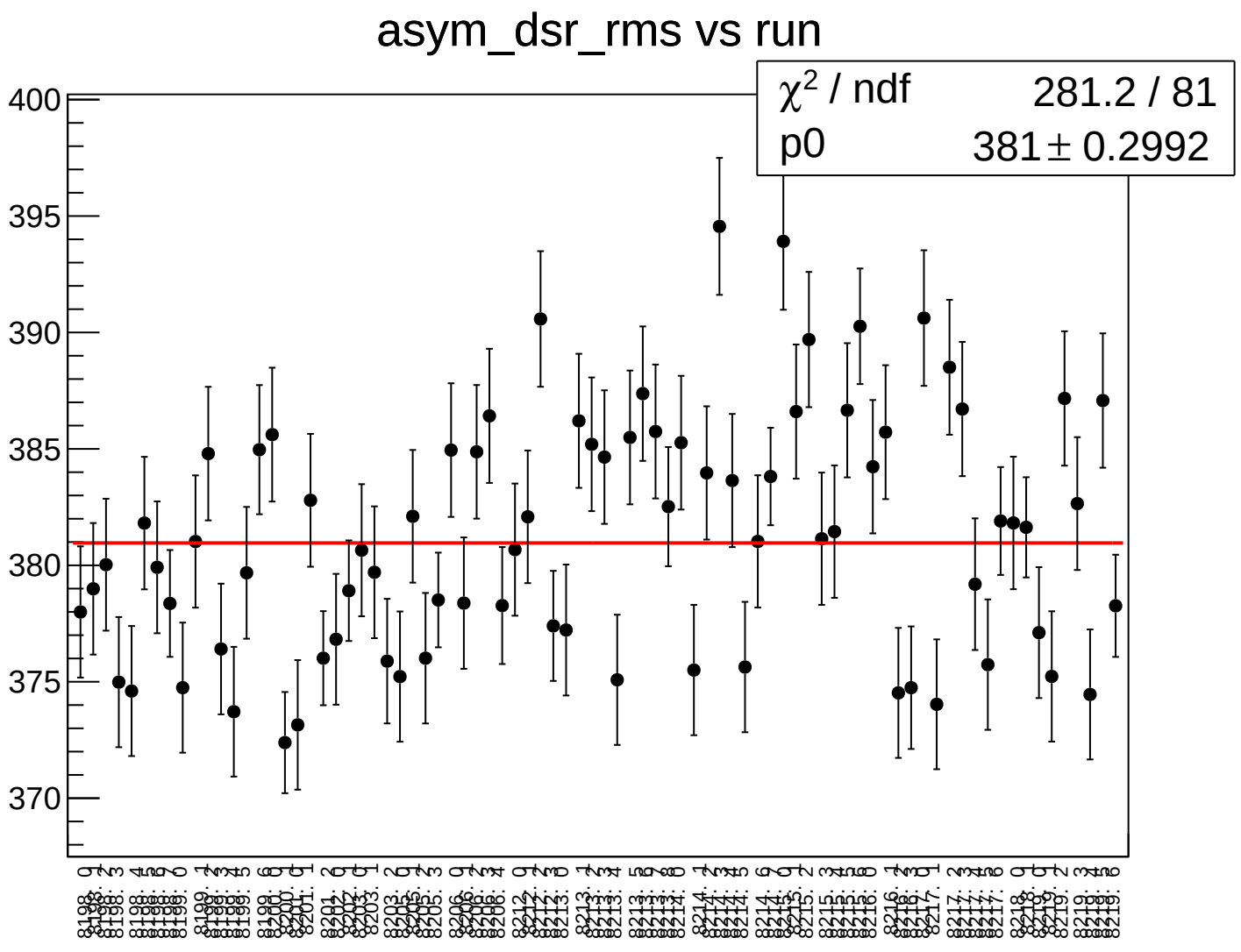

asym_dsl_mean vs run
χ² / ndf 79.34 / 81
p0 449.1 ± 315.9
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 16.05
Std Dev 81.19
2
1
0
−1
−2

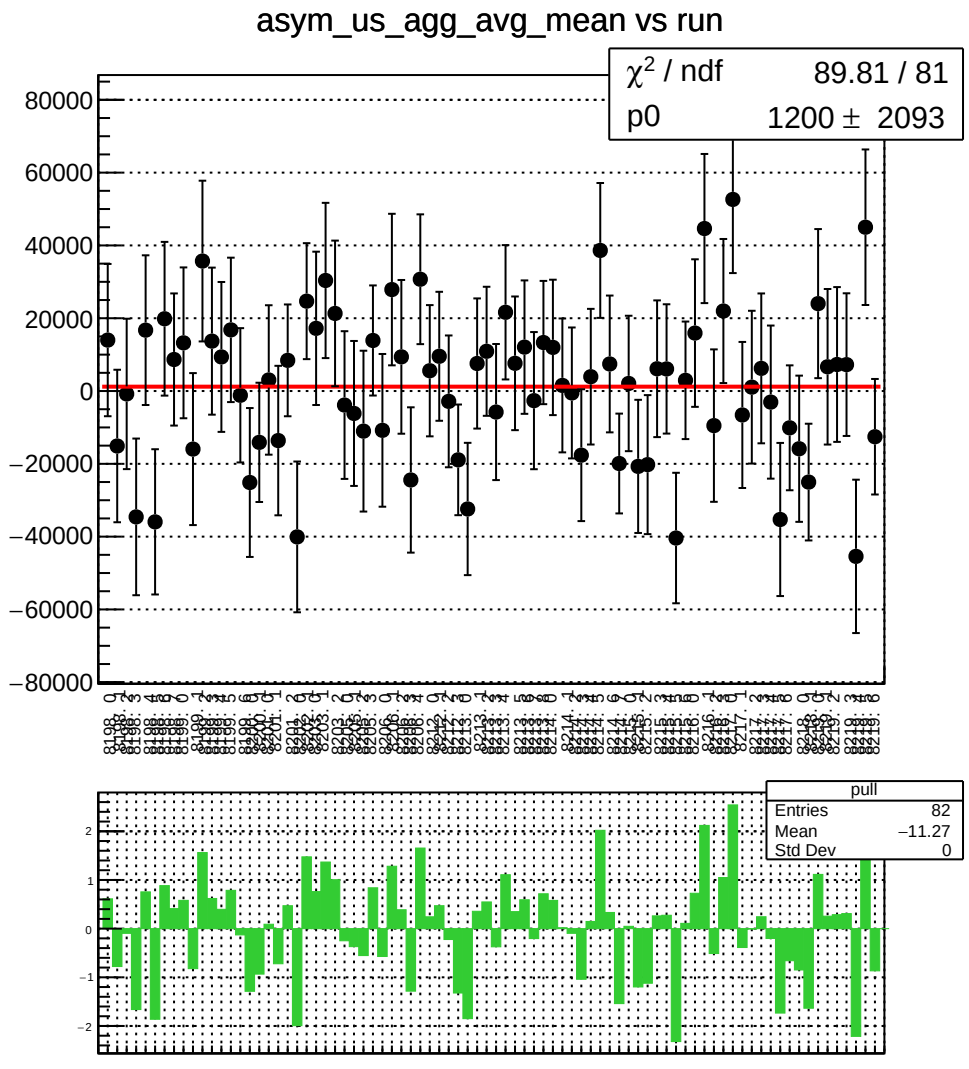

pull1D
Entries 82
Mean −0.0119
Std Dev 0.9836
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

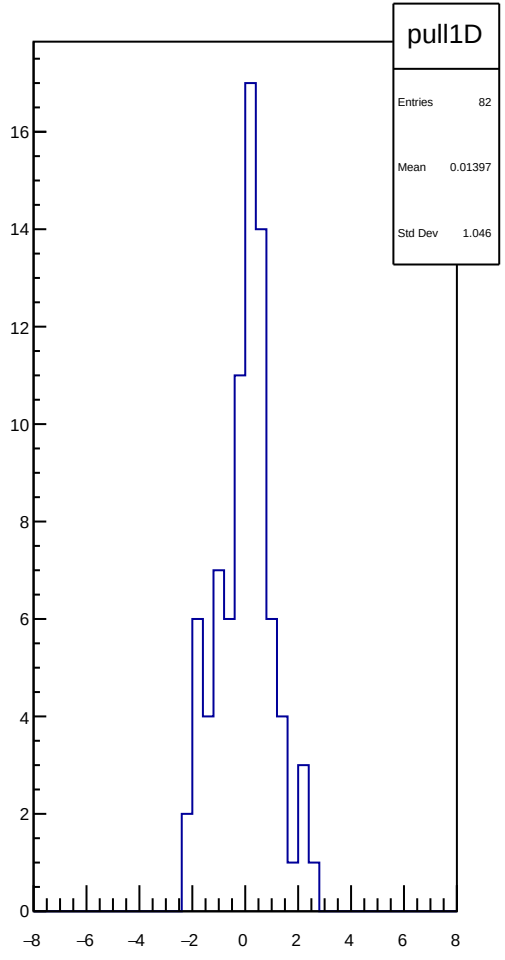

asym_dsl_rms vs run
χ² / ndf 102.7 / 81
p0 284.4 ± 0.2234
296
294
292
290
288
286
284
282
280
278
276

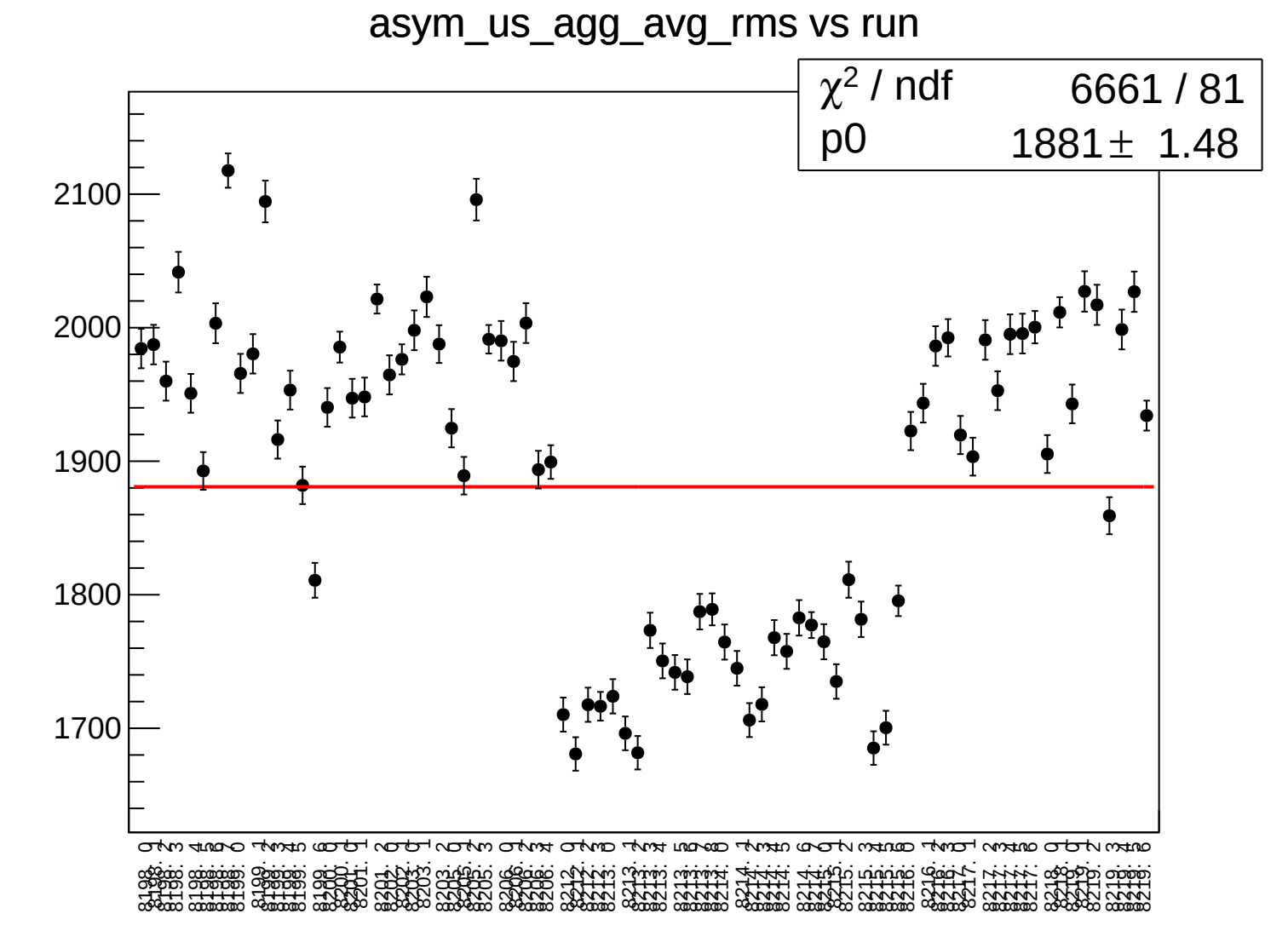

asym_dsr_mean vs run
χ² / ndf 81.75 / 81
p0 −155.2 ± 423.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 6211
Std Dev 0
2
1
0
−1
−2
−3

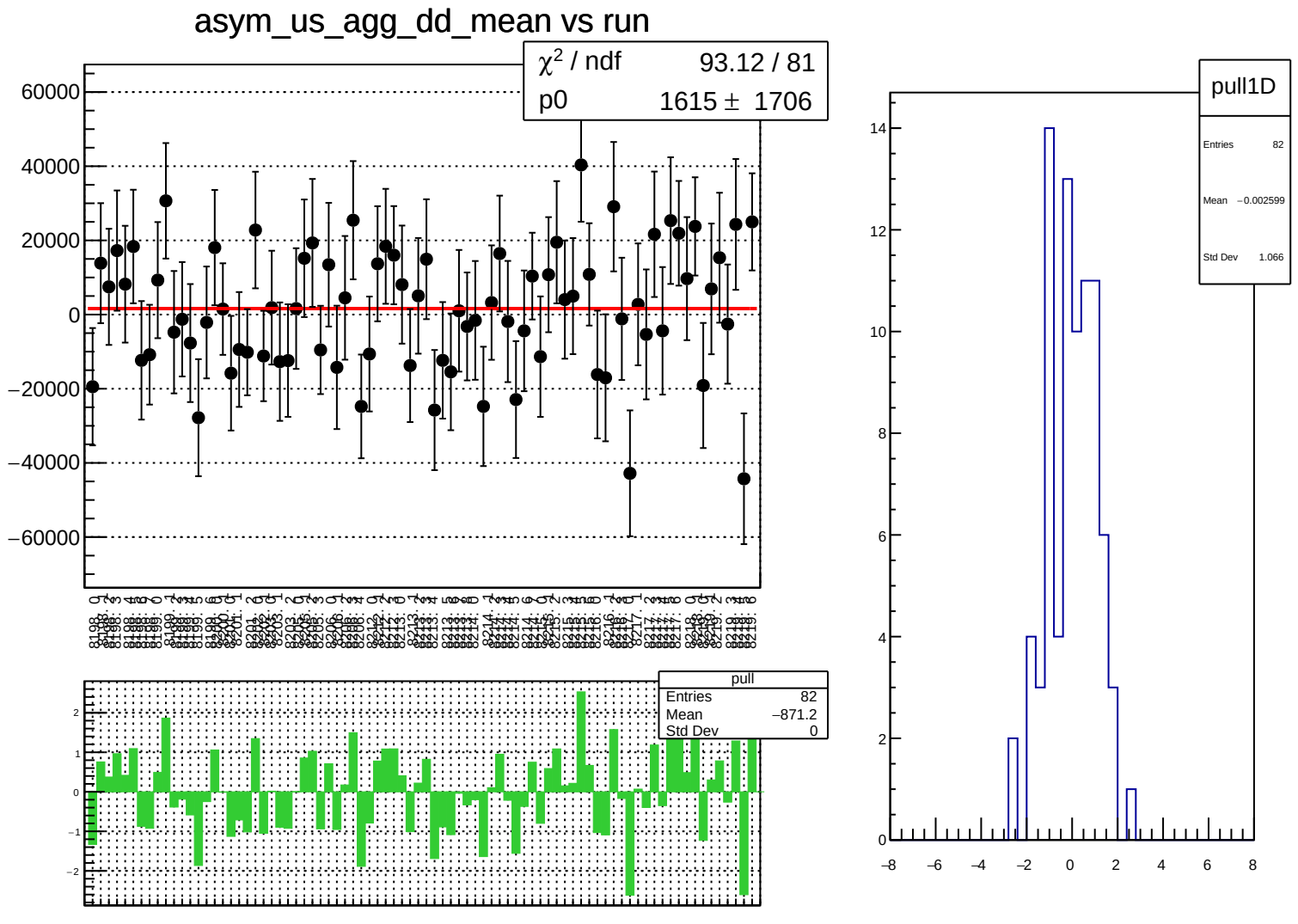

pull1D
Entries 82
Mean 0.0009791
Std Dev 0.9985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

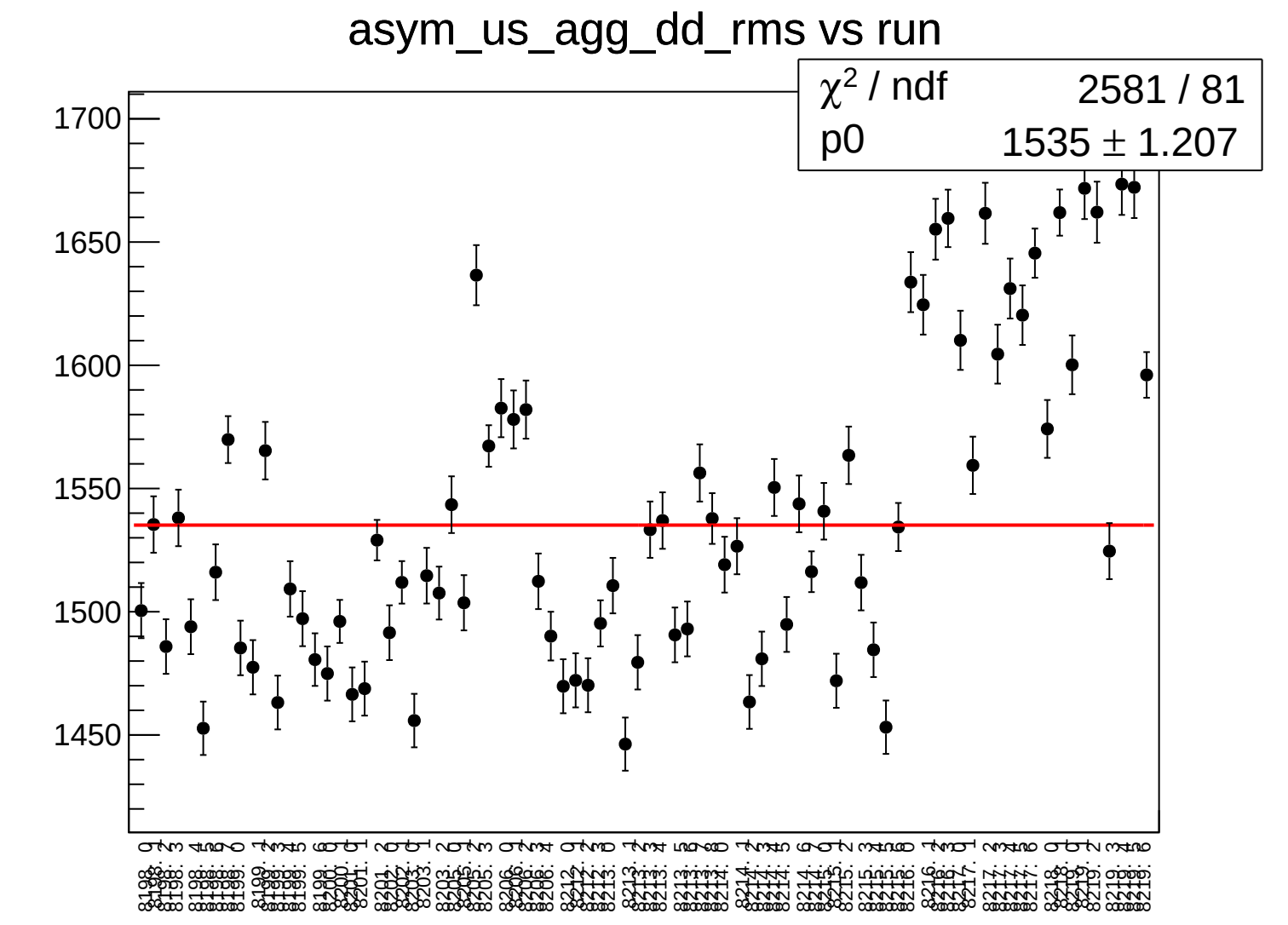

asym_dsr_rms vs run
χ² / ndf 281.2 / 81
p0 381 ± 0.2992
400
395
390
385
380
375
370

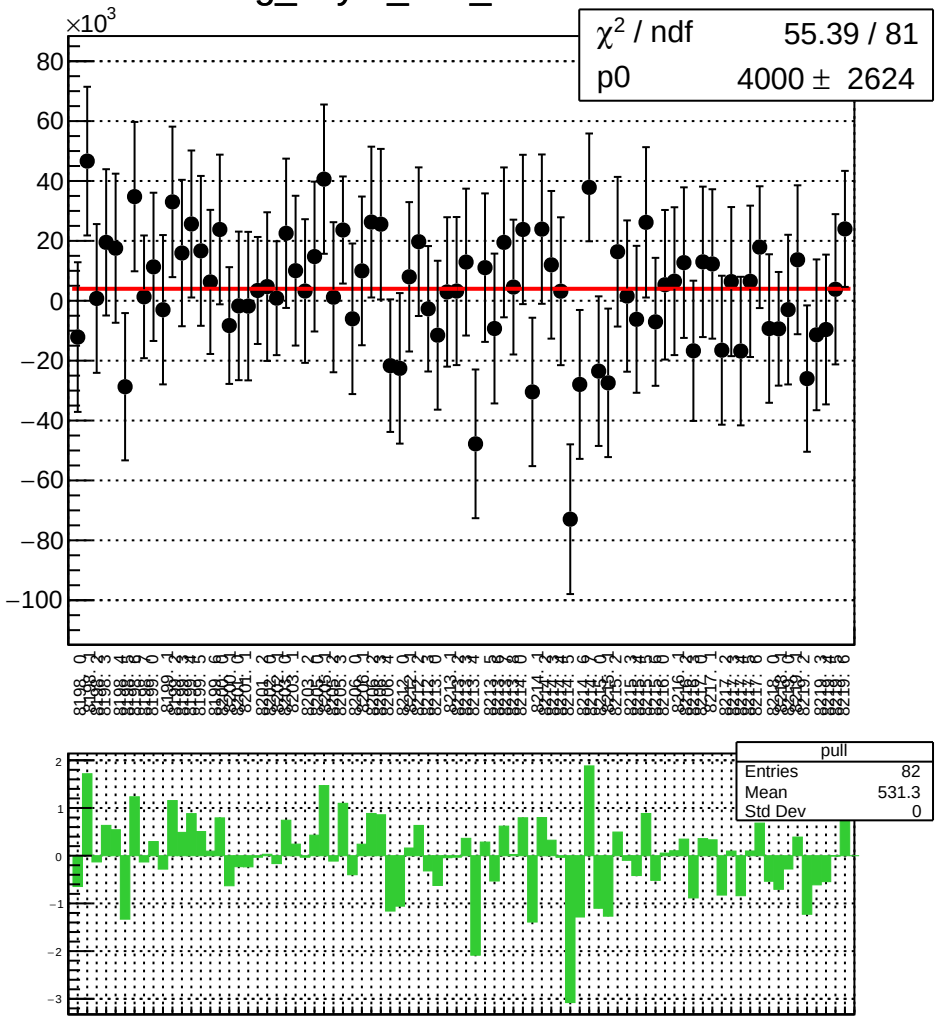

asym_us_agg_avg_mean vs run
χ² / ndf 89.81 / 81
p0 1200 ± 2093
pull
Entries 82
Mean −11.27
Std Dev 0

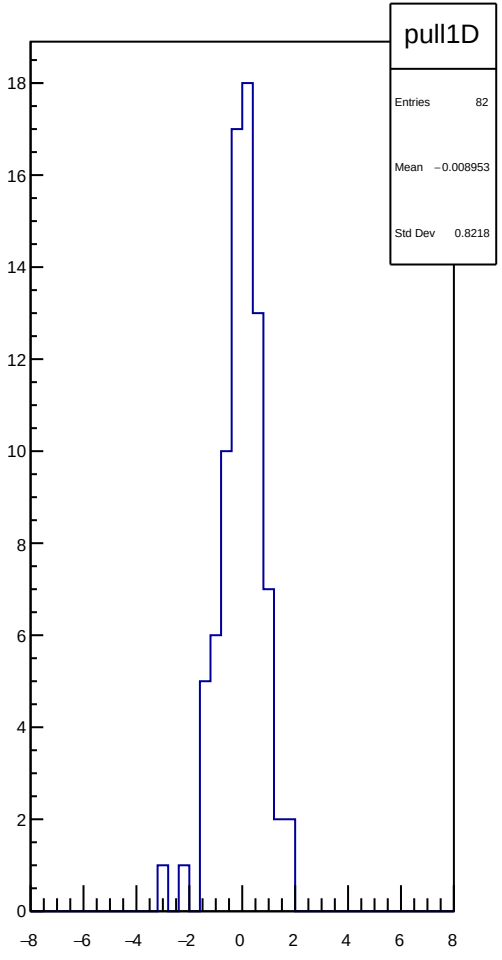

pull1D
Entries 82
Mean 0.01397
Std Dev 1.046

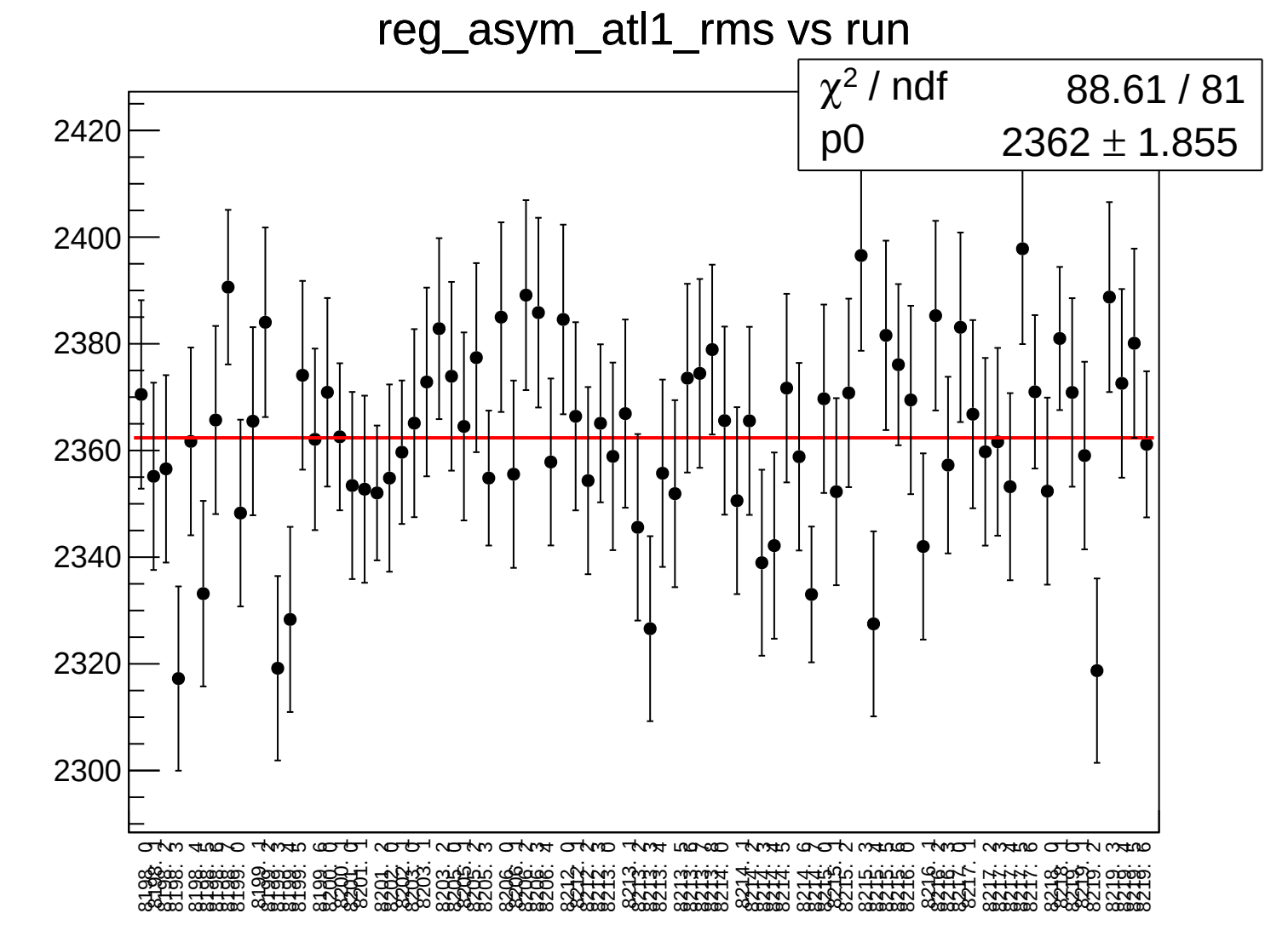

asym_us_agg_avg_rms vs run
χ² / ndf 6661 / 81
p0 1881 ± 1.48
2100
2000
1900
1800
1700

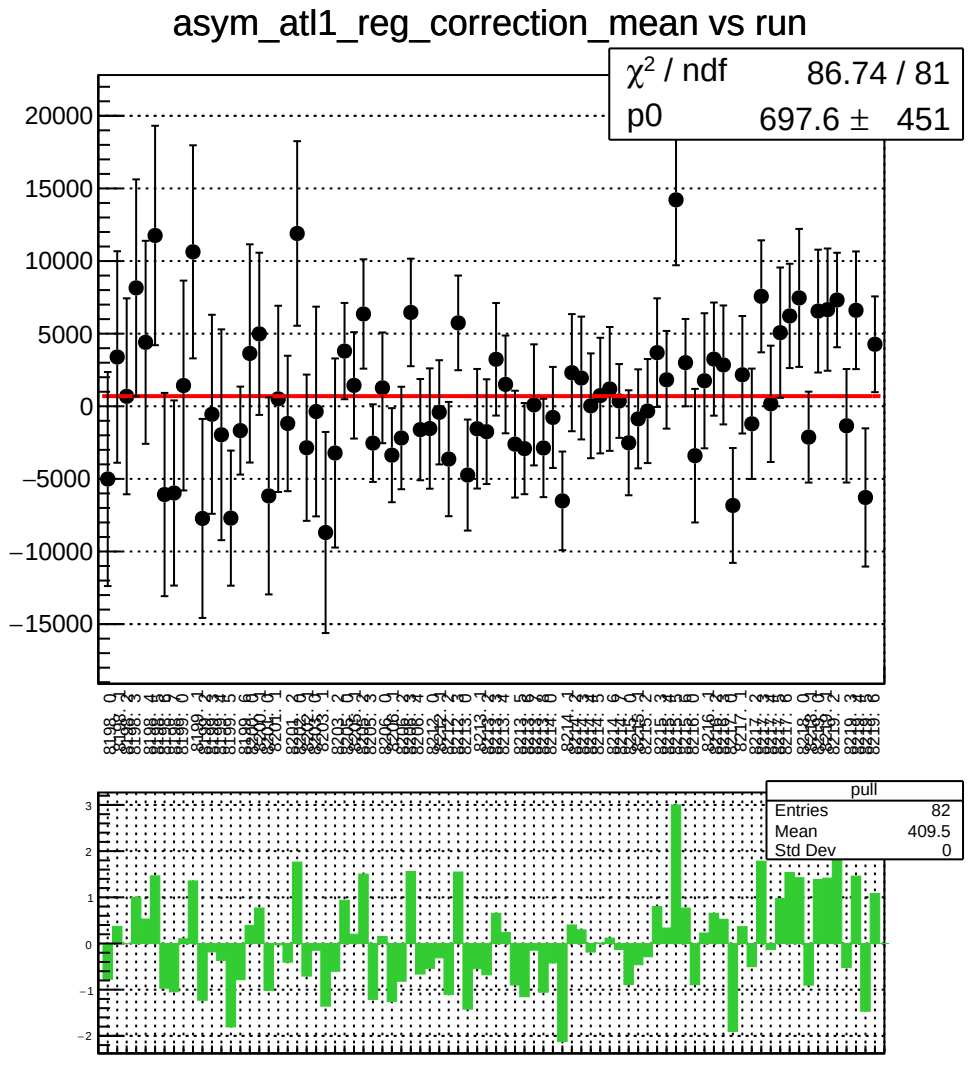

asym_us_agg_dd_mean vs run
χ² / ndf 93.12 / 81
p0 1615 ± 1706
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −871.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.002599
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

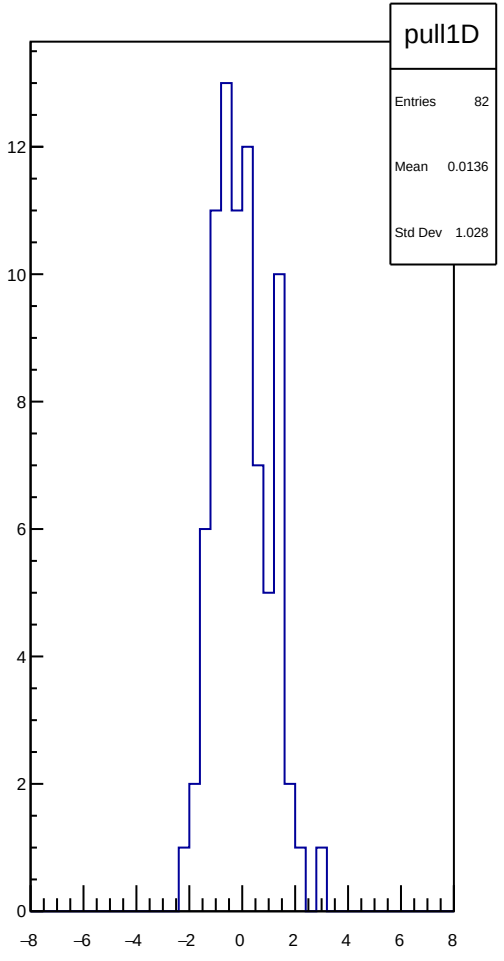

asym_us_agg_dd_rms vs run
χ² / ndf 2581 / 81
p0 1535 ± 1.207
1700
1650
1600
1550
1500
1450

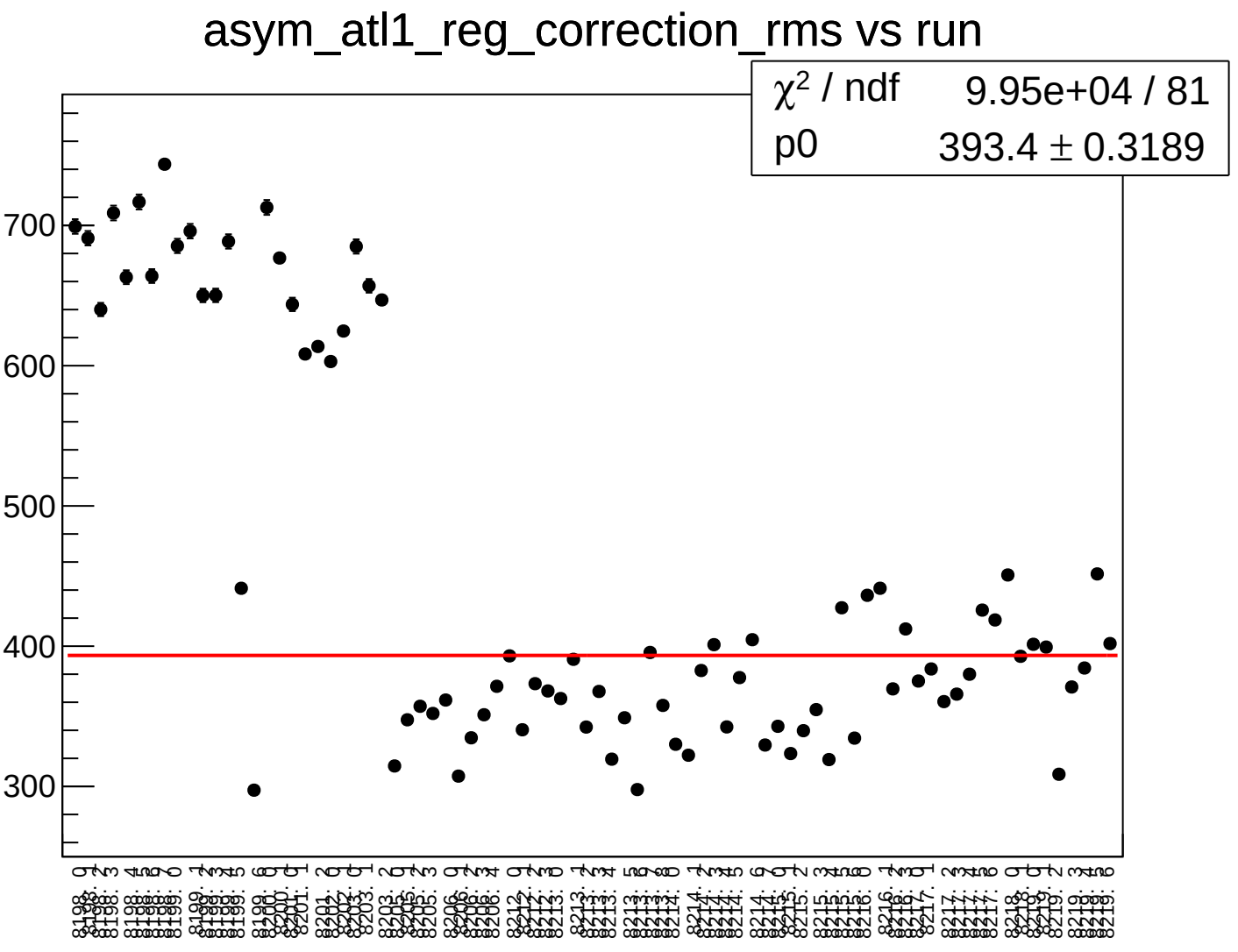

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 55.39 / 81
p0 4000 ± 2624
pull
Entries 82
Mean 531.3
Std Dev 0

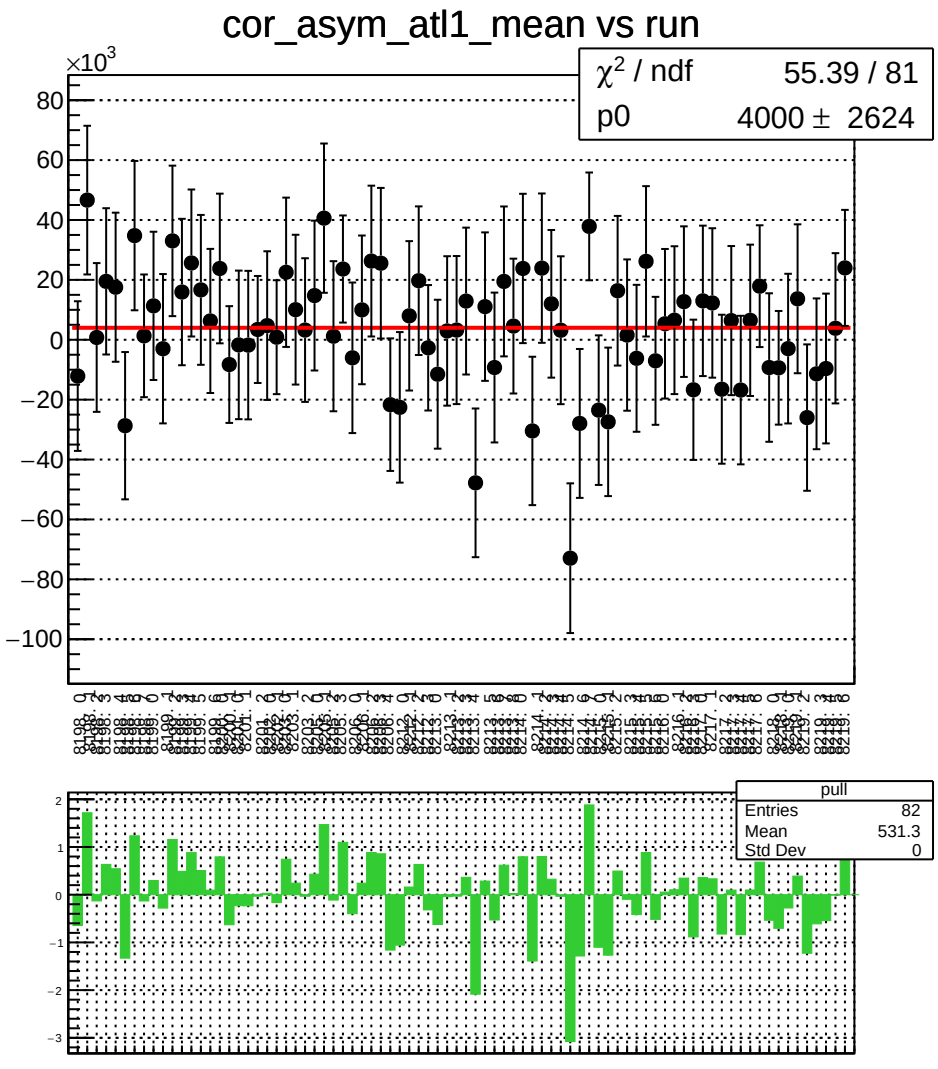

pull1D
Entries 82
Mean −0.008953
Std Dev 0.8218

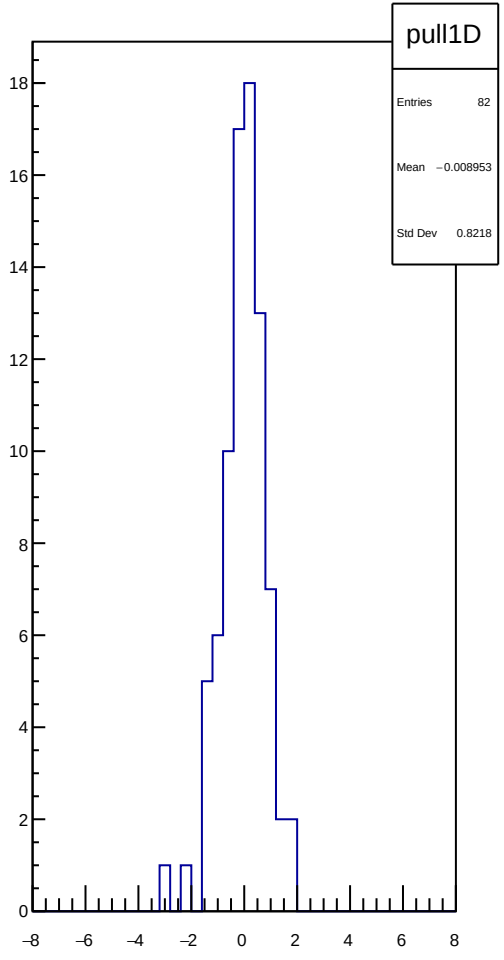

reg_asym_atl1_rms vs run
χ² / ndf 88.61 / 81
p0 2362 ± 1.855
2420
2400
2380
2360
2340
2320
2300

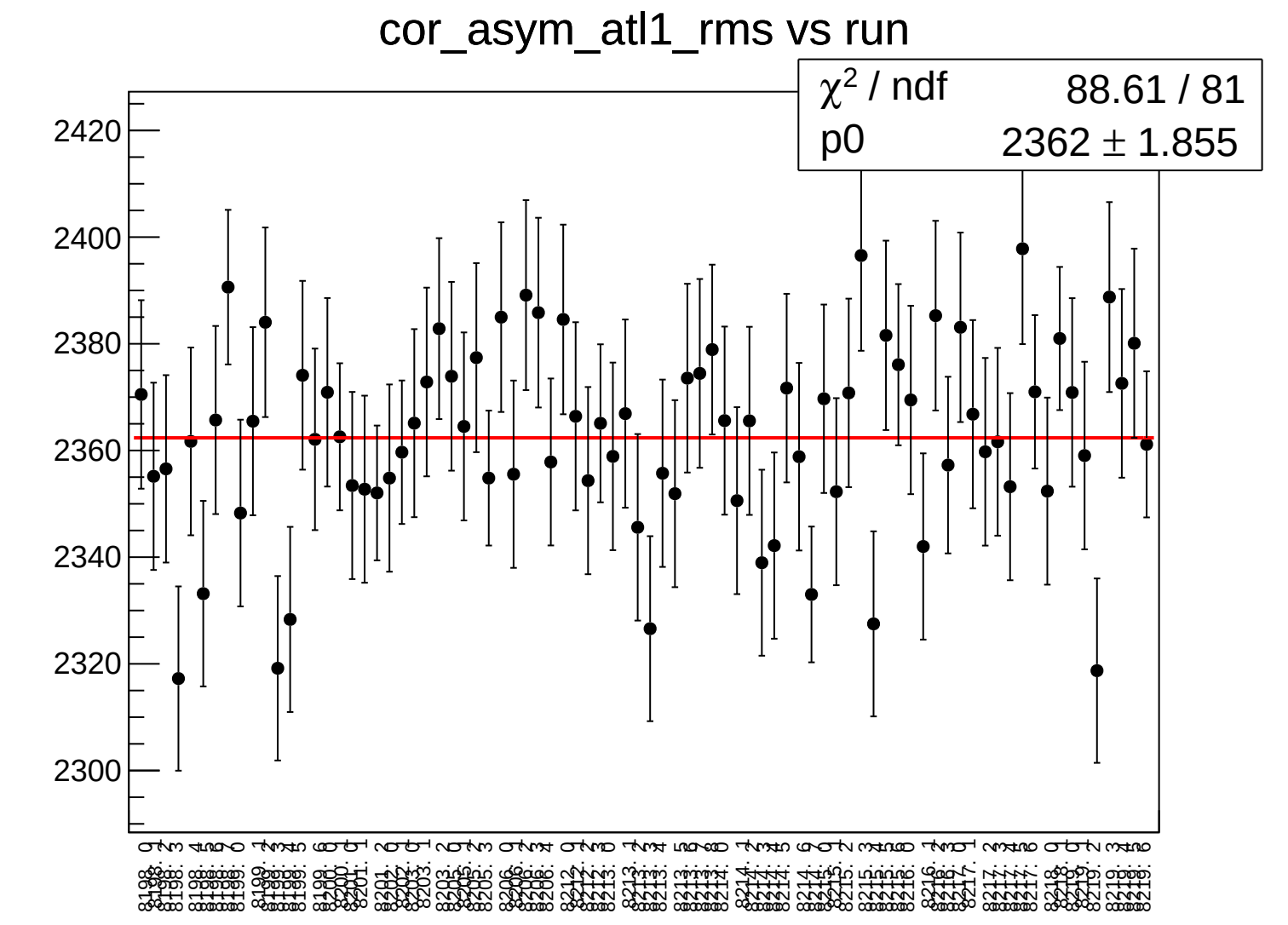

asym_atl1_reg_correction_mean vs run
χ² / ndf 86.74 / 81
p0 697.6 ± 451
pull
Entries 82
Mean 409.5
Std Dev 0

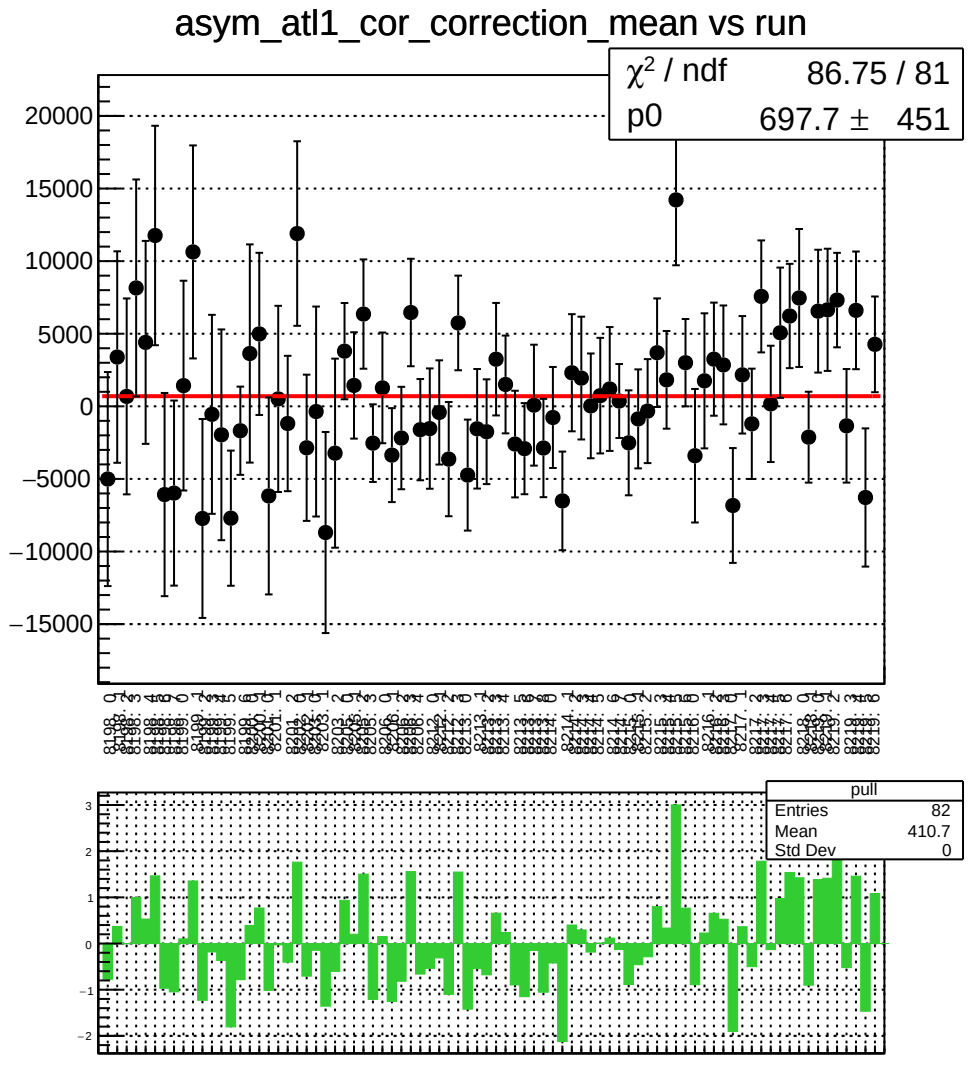

pull1D
Entries 82
Mean 0.0136
Std Dev 1.028

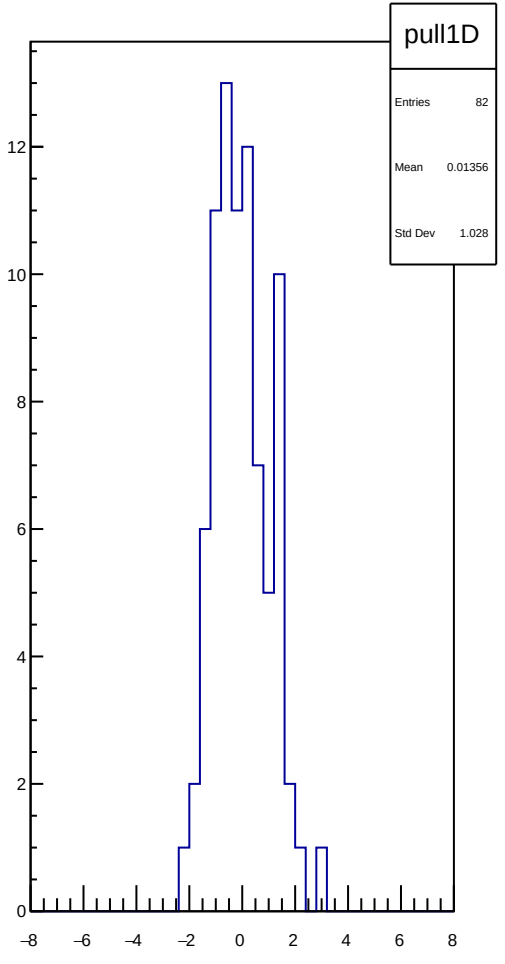

asym_atl1_reg_correction_rms vs run
χ² / ndf 9.95e+04 / 81
p0 393.4 ± 0.3189
700
600
500
400
300

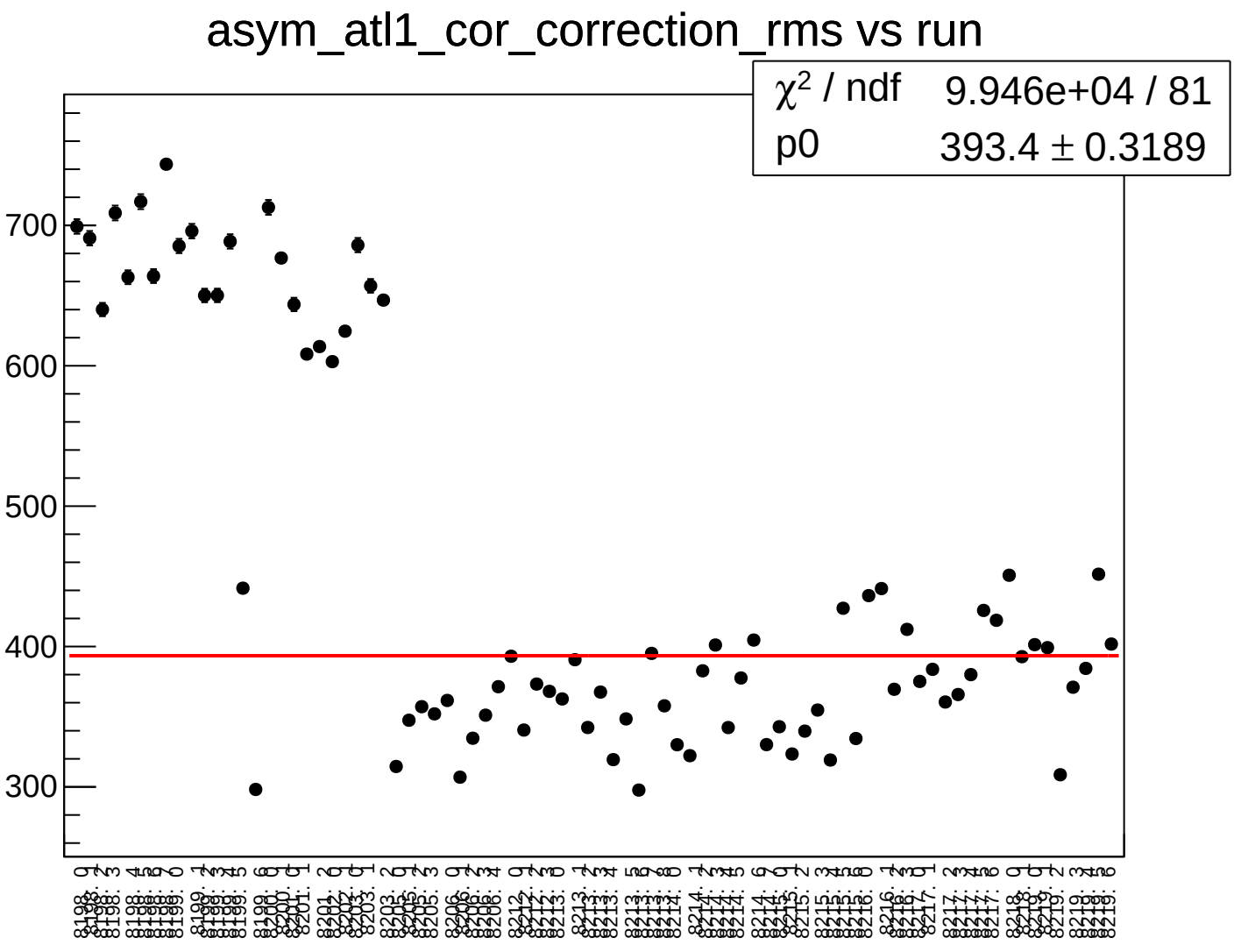

cor_asym_atl1_mean vs run
χ² / ndf 55.39 / 81
p0 4000 ± 2624
pull
Entries 82
Mean 531.3
Std Dev 0

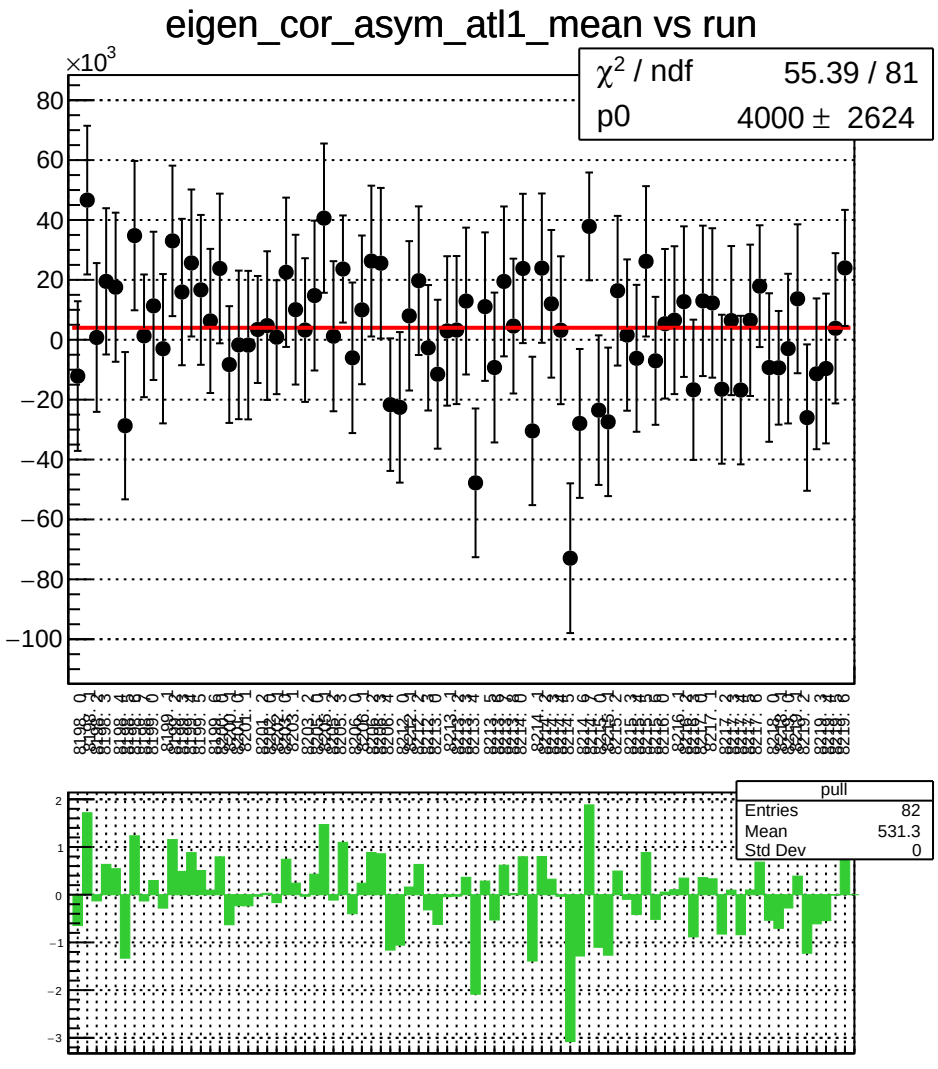

pull1D
Entries 82
Mean −0.008953
Std Dev 0.8218

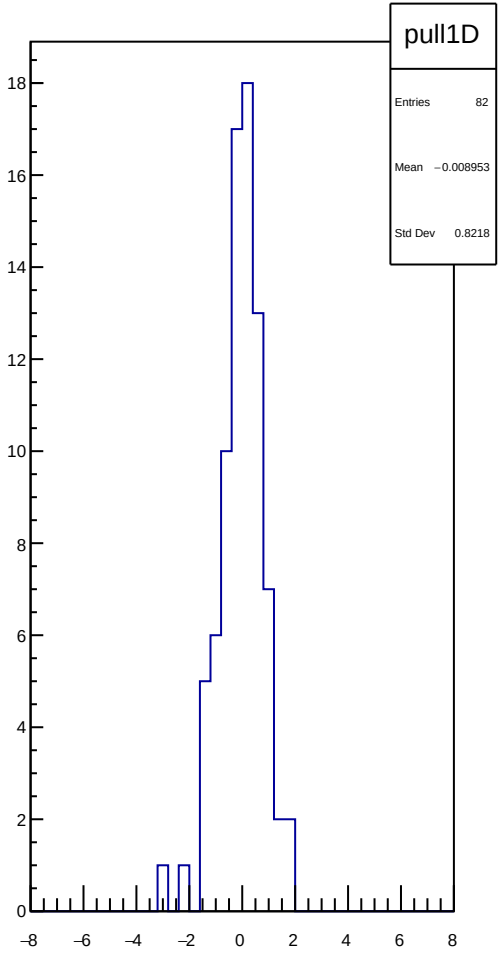

cor_asym_atl1_rms vs run
χ² / ndf 88.61 / 81
p0 2362 ± 1.855
2420
2400
2380
2360
2340
2320
2300

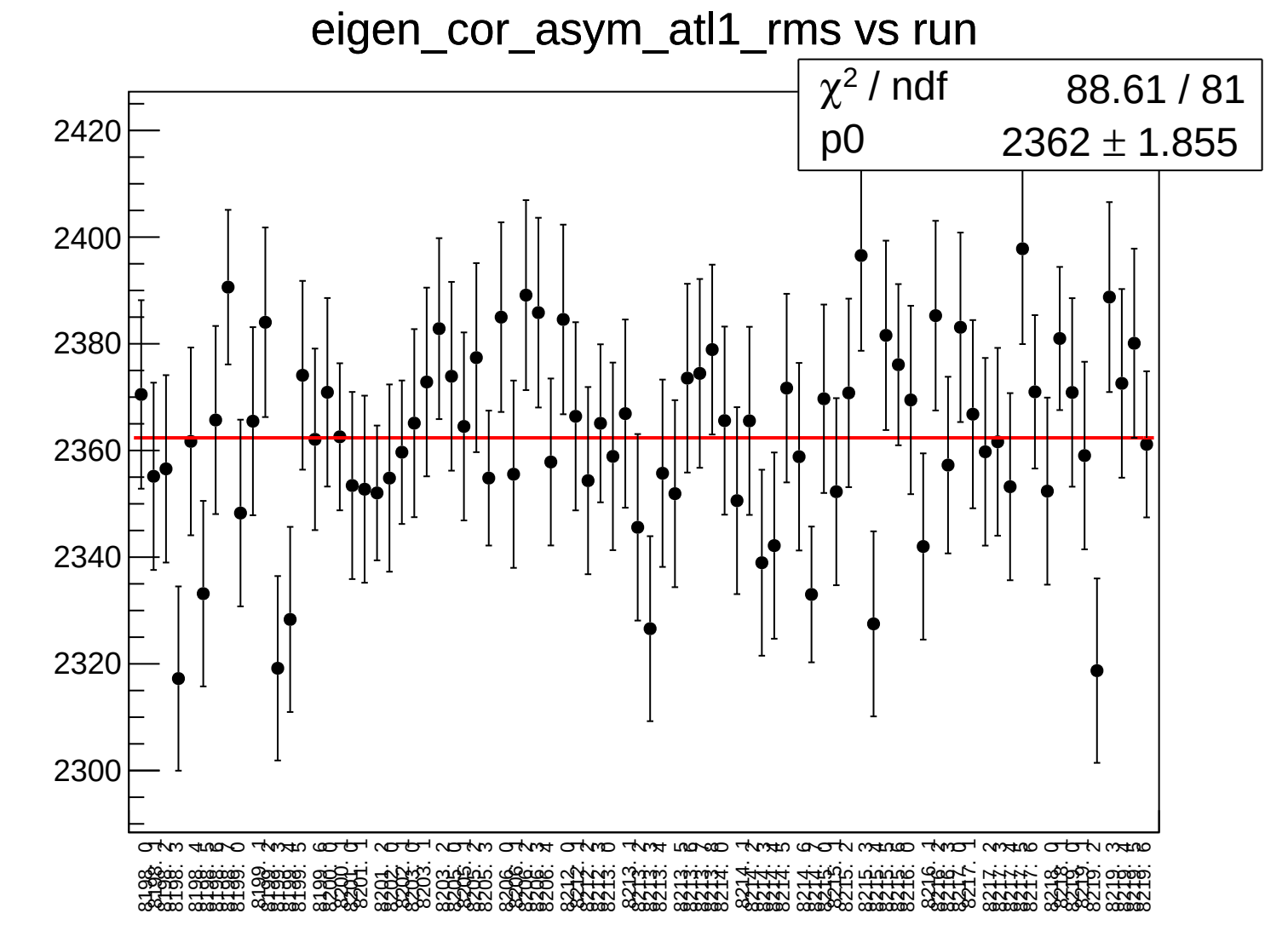

asym_atl1_cor_correction_mean vs run
χ² / ndf 86.75 / 81
p0 697.7 ± 451
pull
Entries 82
Mean 410.7
Std Dev 0

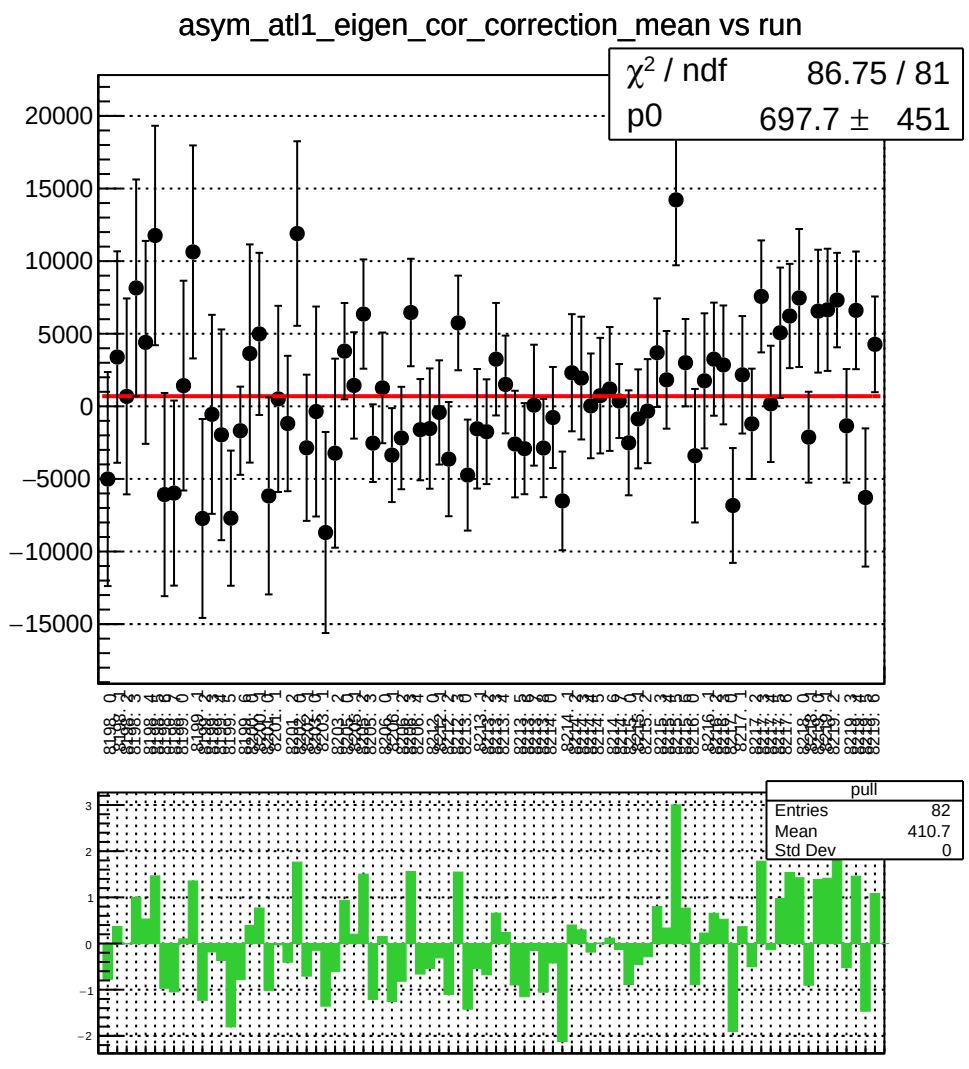

pull1D
Entries 82
Mean 0.01356
Std Dev 1.028

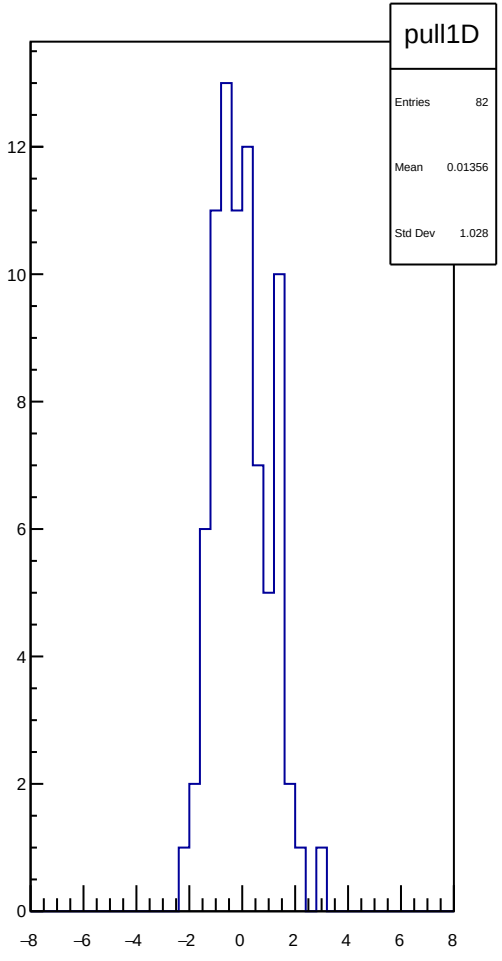

asym_atl1_cor_correction_rms vs run
χ² / ndf 9.946e+04 / 81
p0 393.4 ± 0.3189
700
600
500
400
300

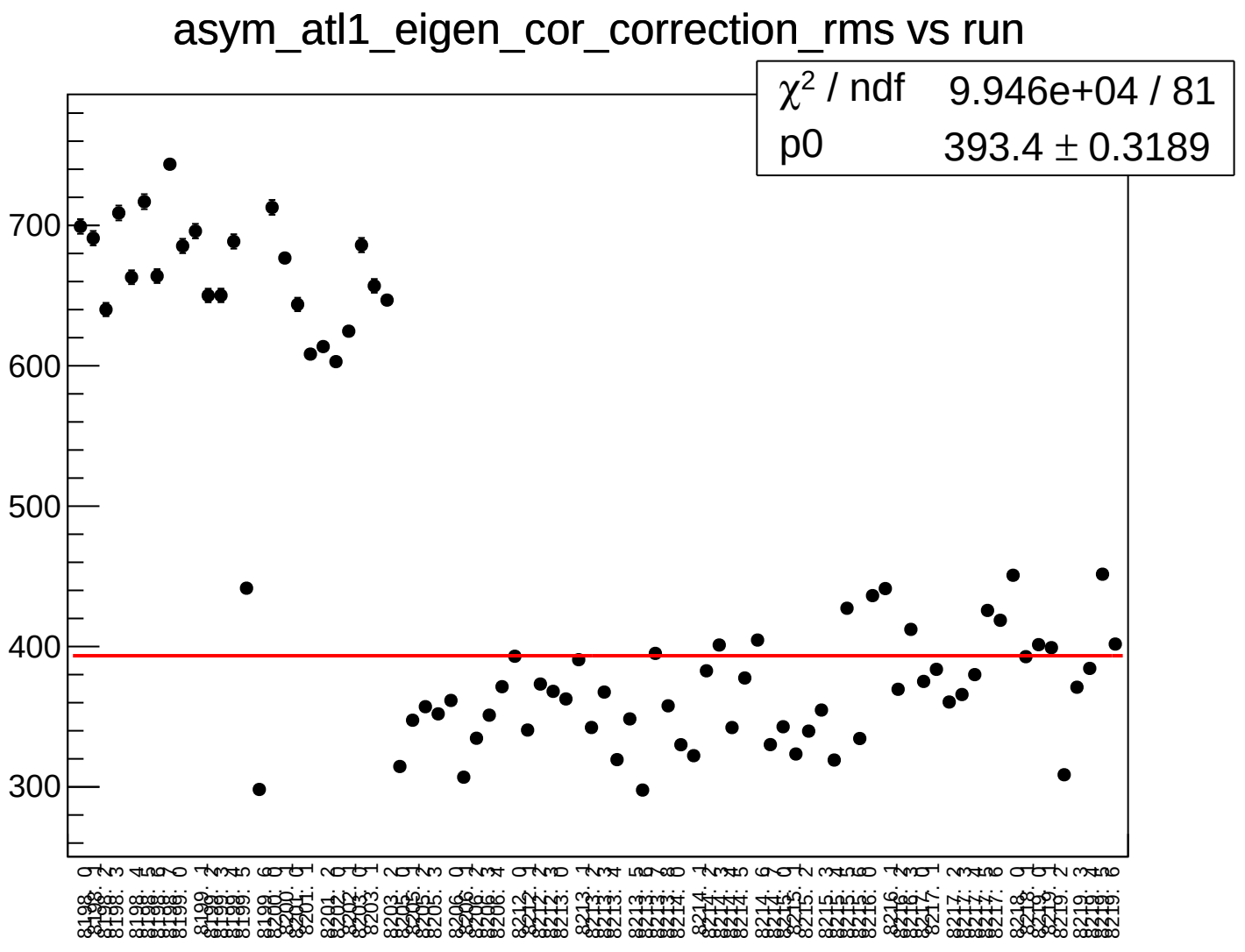

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 55.39 / 81
p0 4000 ± 2624
pull
Entries 82
Mean 531.3
Std Dev 0

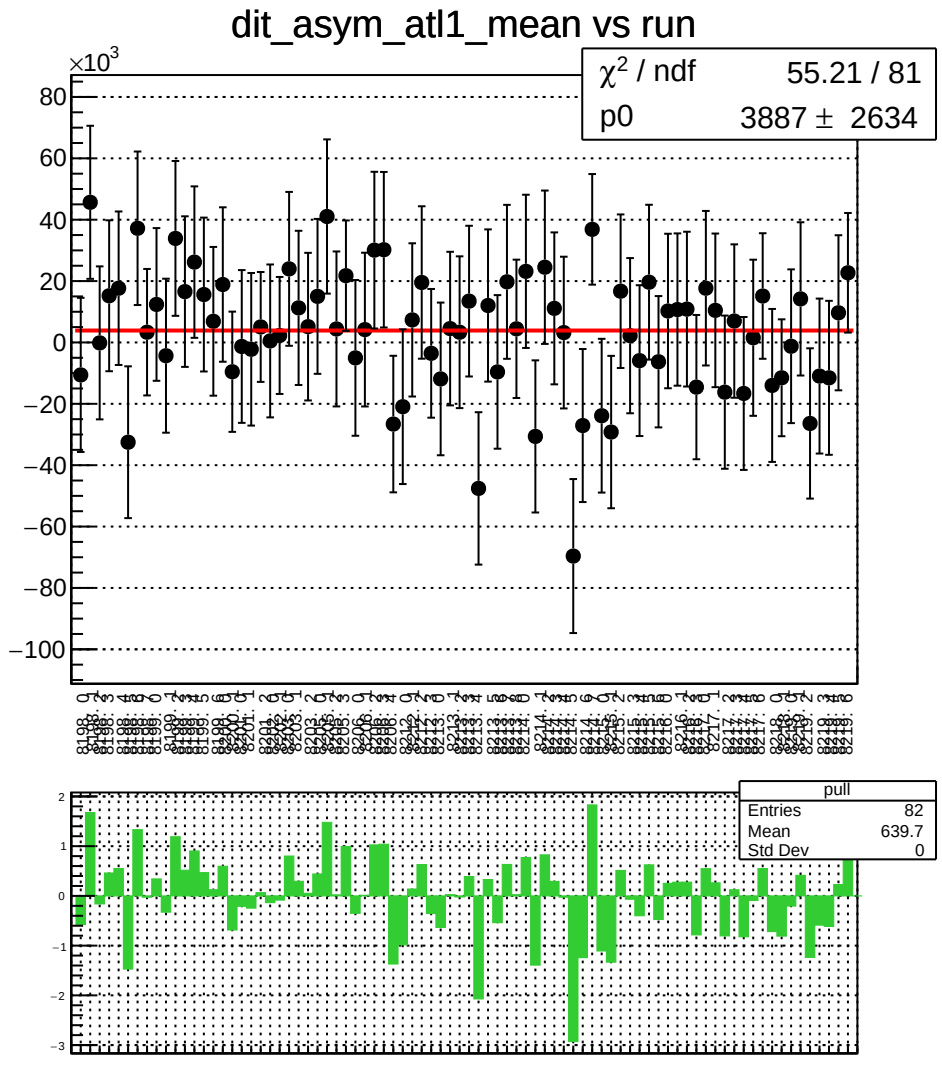

pull1D
Entries 82
Mean −0.008953
Std Dev 0.8218

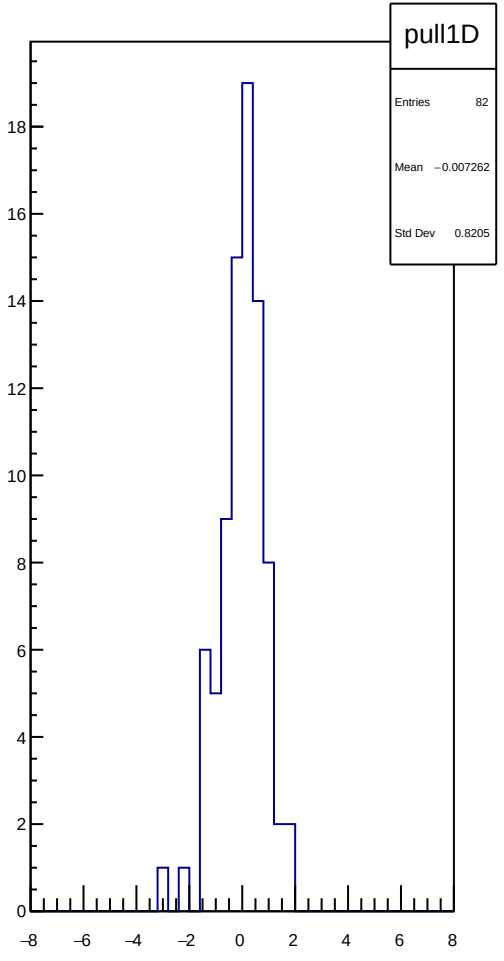

eigen_cor_asym_atl1_rms vs run
χ² / ndf 88.61 / 81
p0 2362 ± 1.855
2420
2400
2380
2360
2340
2320
2300

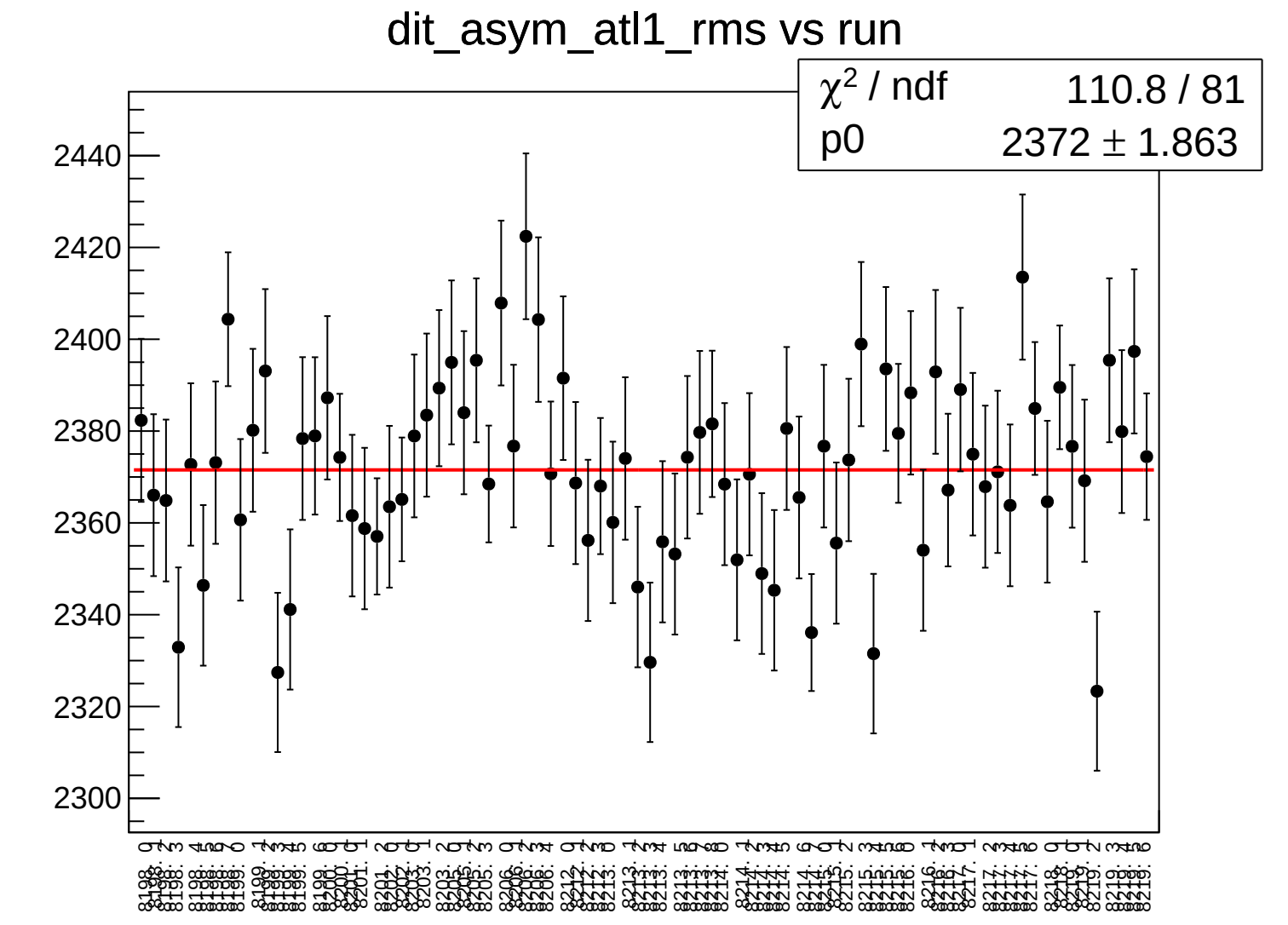

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 86.75 / 81
p0 697.7 ± 451
pull
Entries 82
Mean 410.7
Std Dev 0

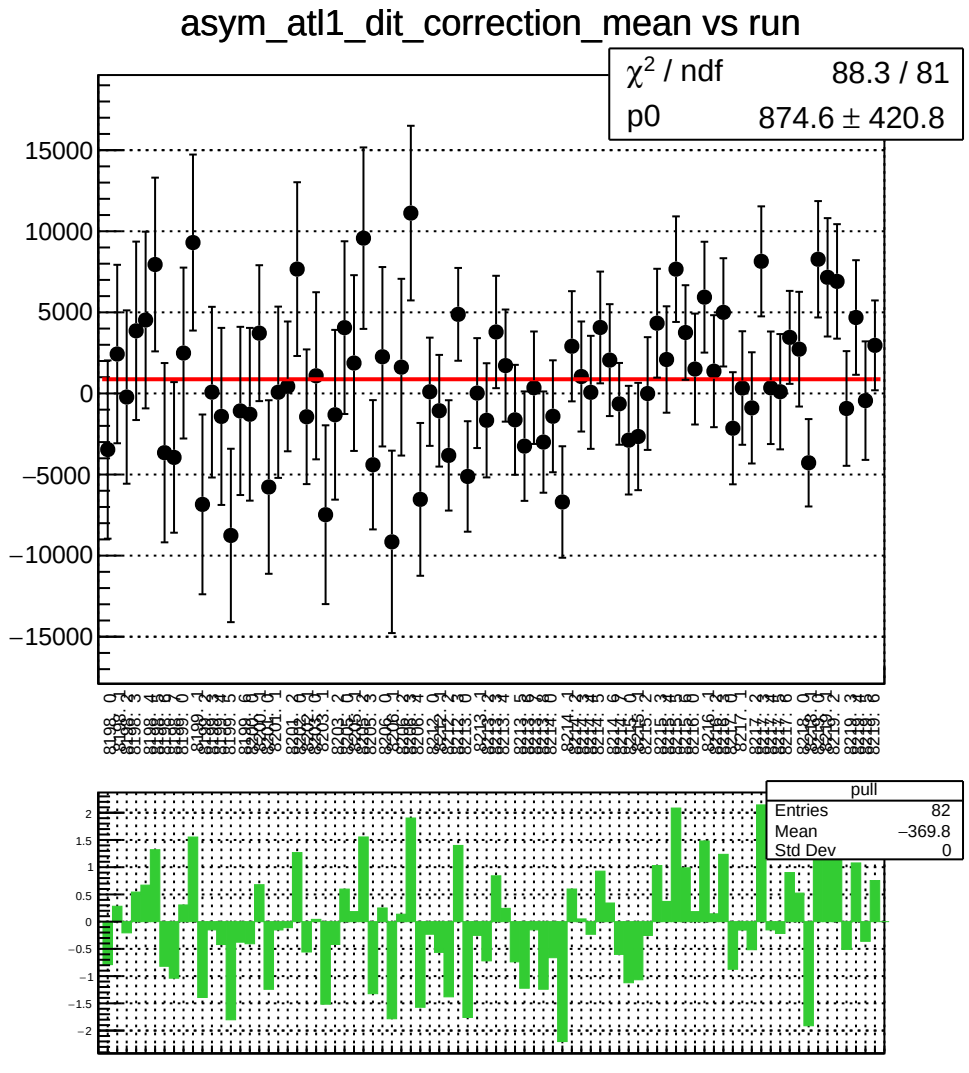

pull1D
Entries 82
Mean 0.01356
Std Dev 1.028

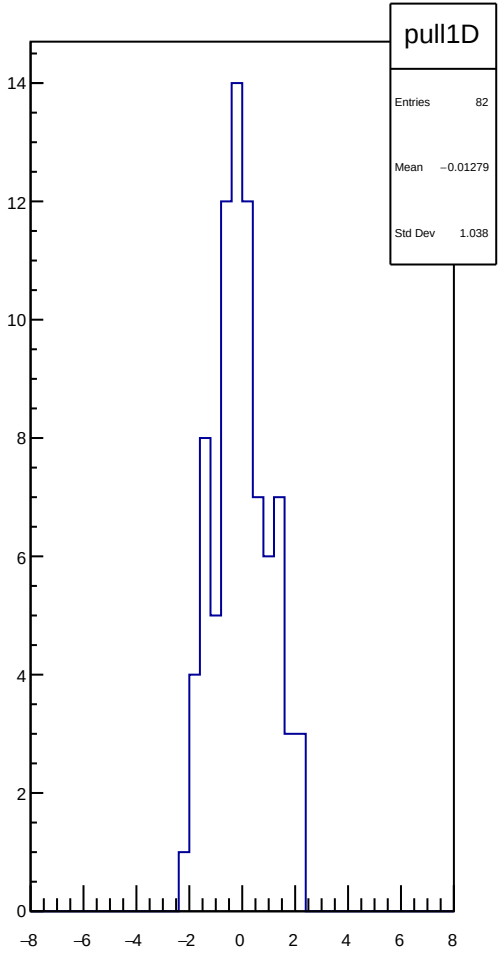

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 9.946e+04 / 81
p0 393.4 ± 0.3189
700
600
500
400
300

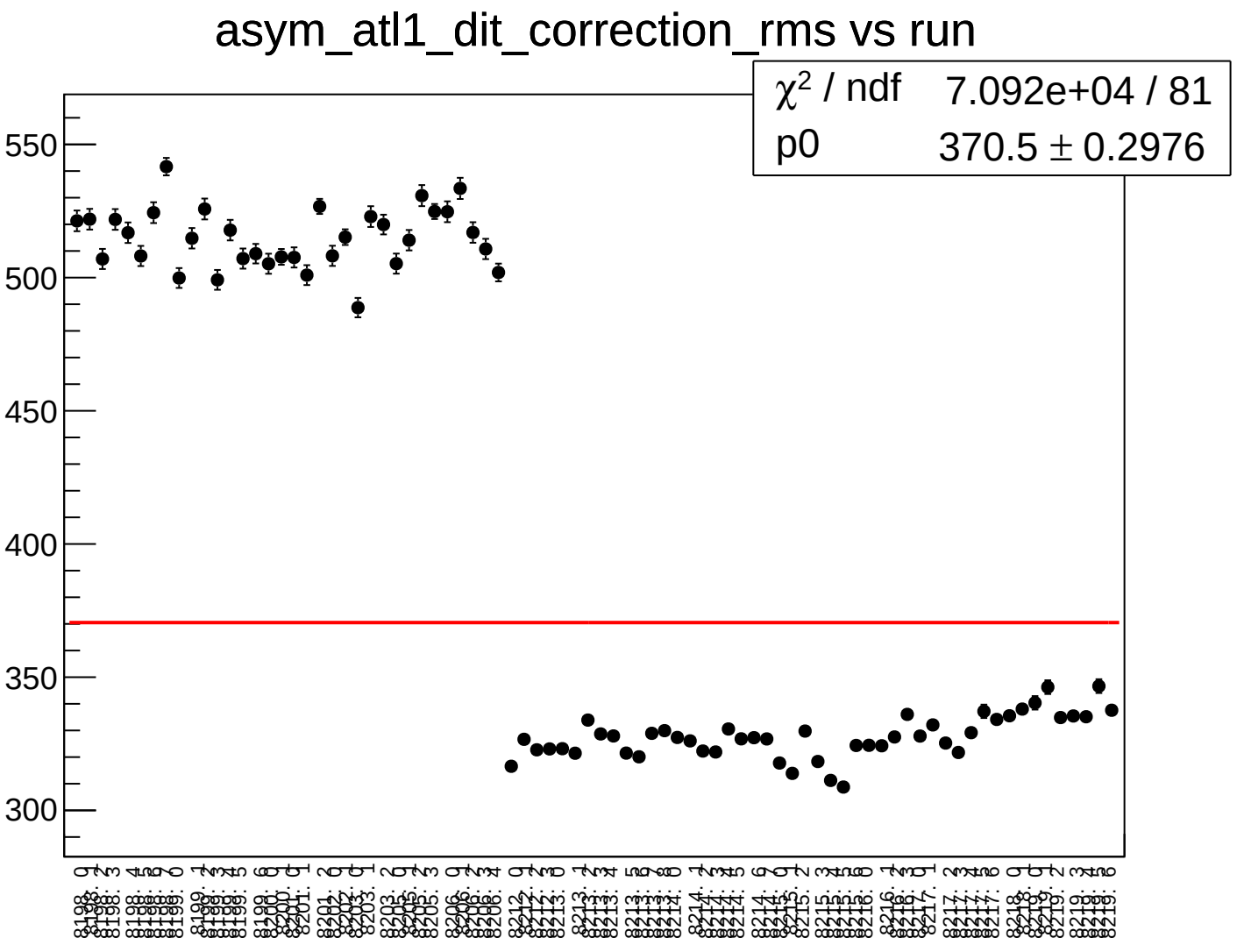

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 55.21 / 81
p0 3887 ± 2634
pull
Entries 82
Mean 639.7
Std Dev 0

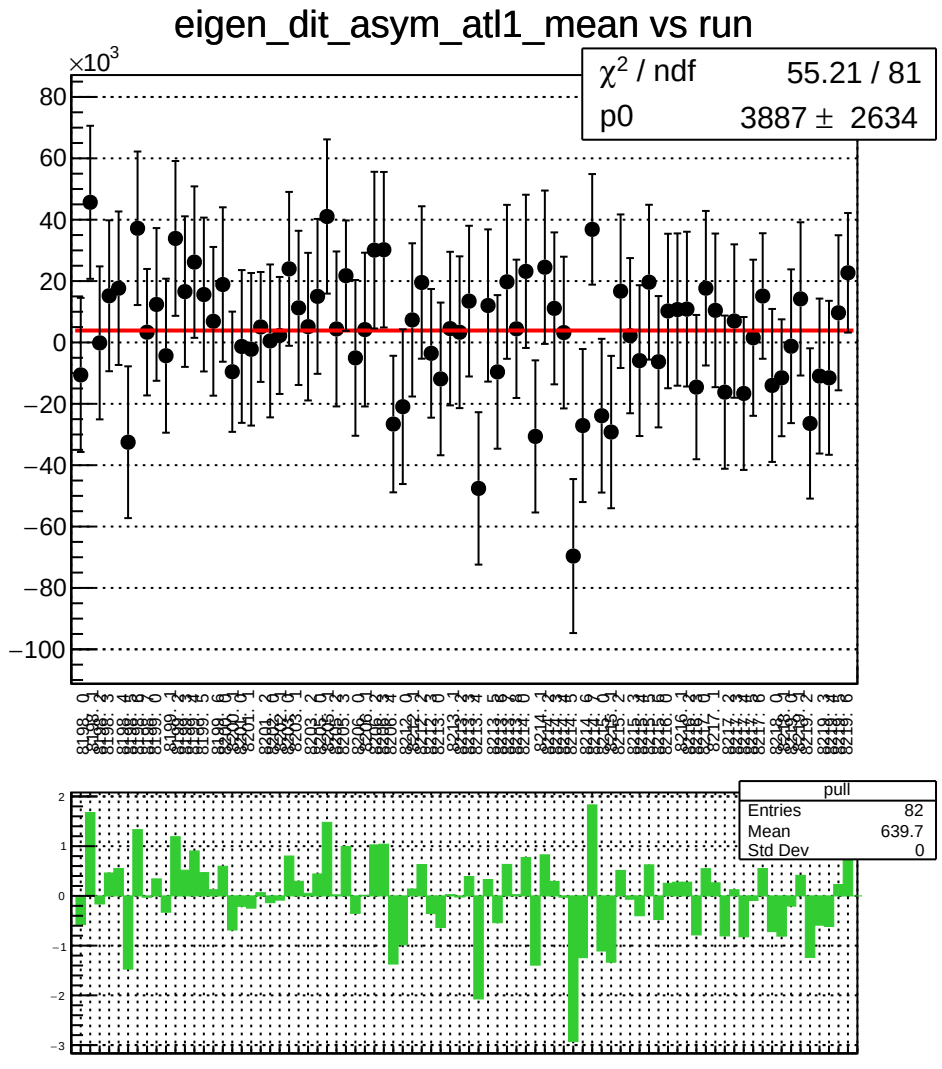

pull1D
Entries 82
Mean −0.007262
Std Dev 0.8205

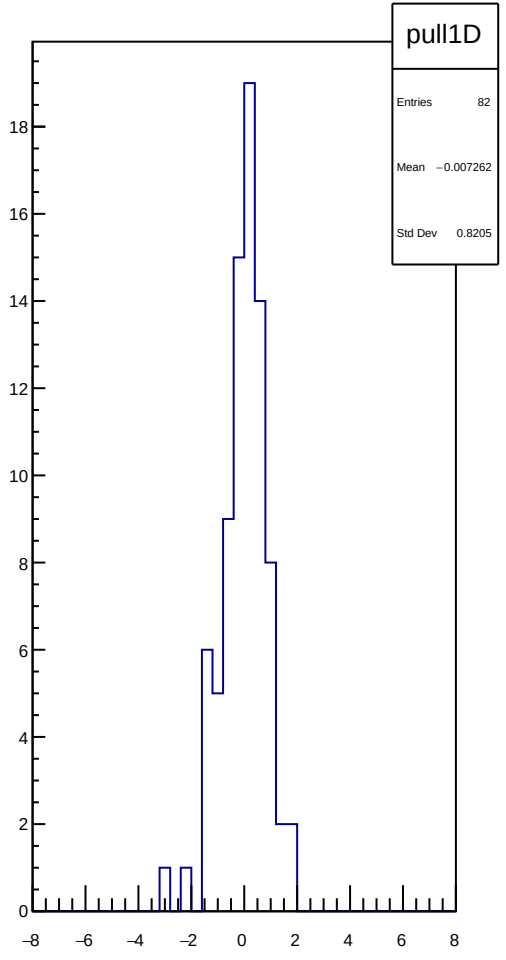

dit_asym_atl1_rms vs run
$\chi^2$ / ndf 110.8 / 81
p0 2372 ± 1.863
2440
2420
2400
2380
2360
2340
2320
2300

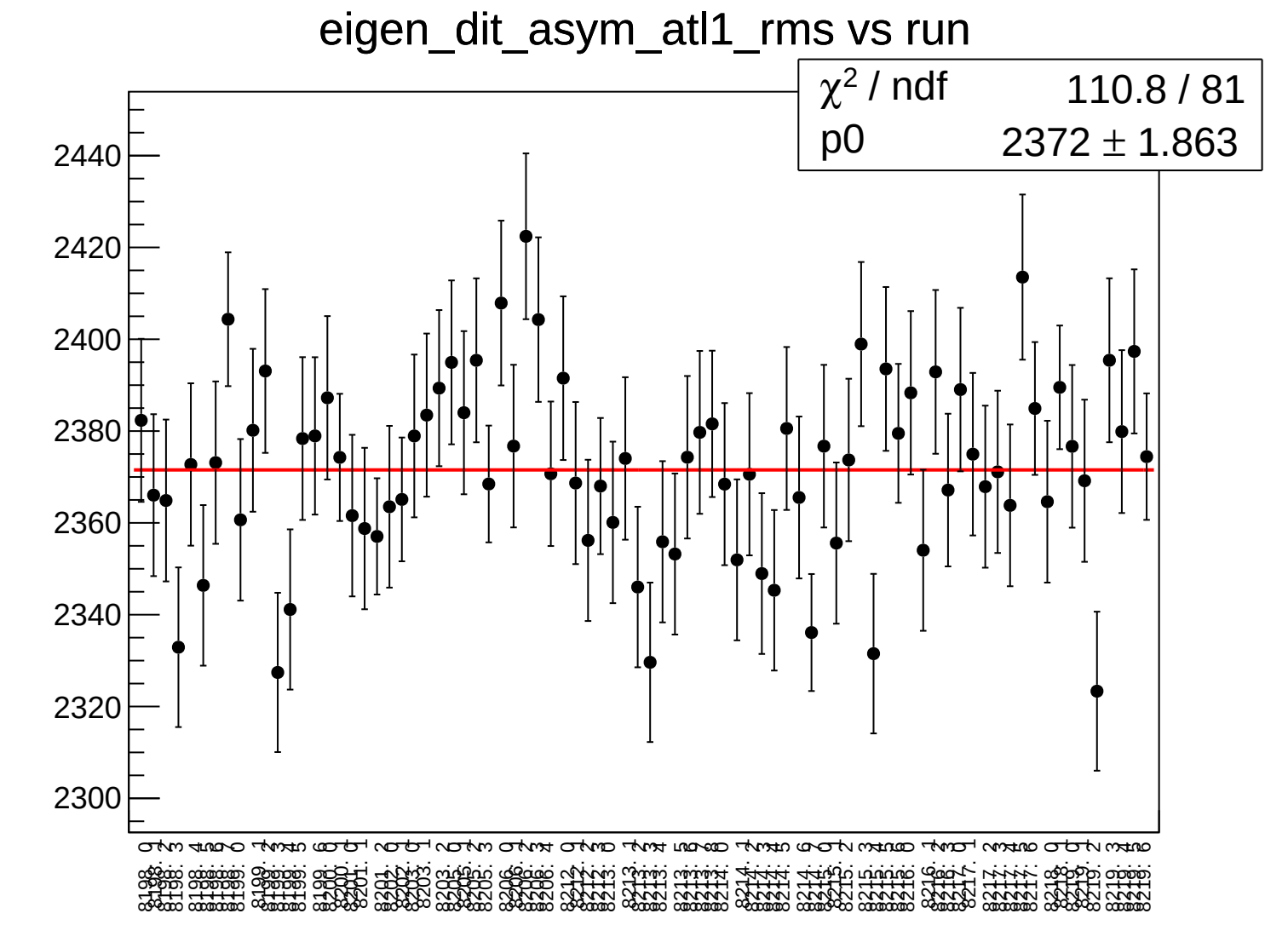

asym_atl1_dit_correction_mean vs run
χ² / ndf 88.3 / 81
p0 874.6 ± 420.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −369.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

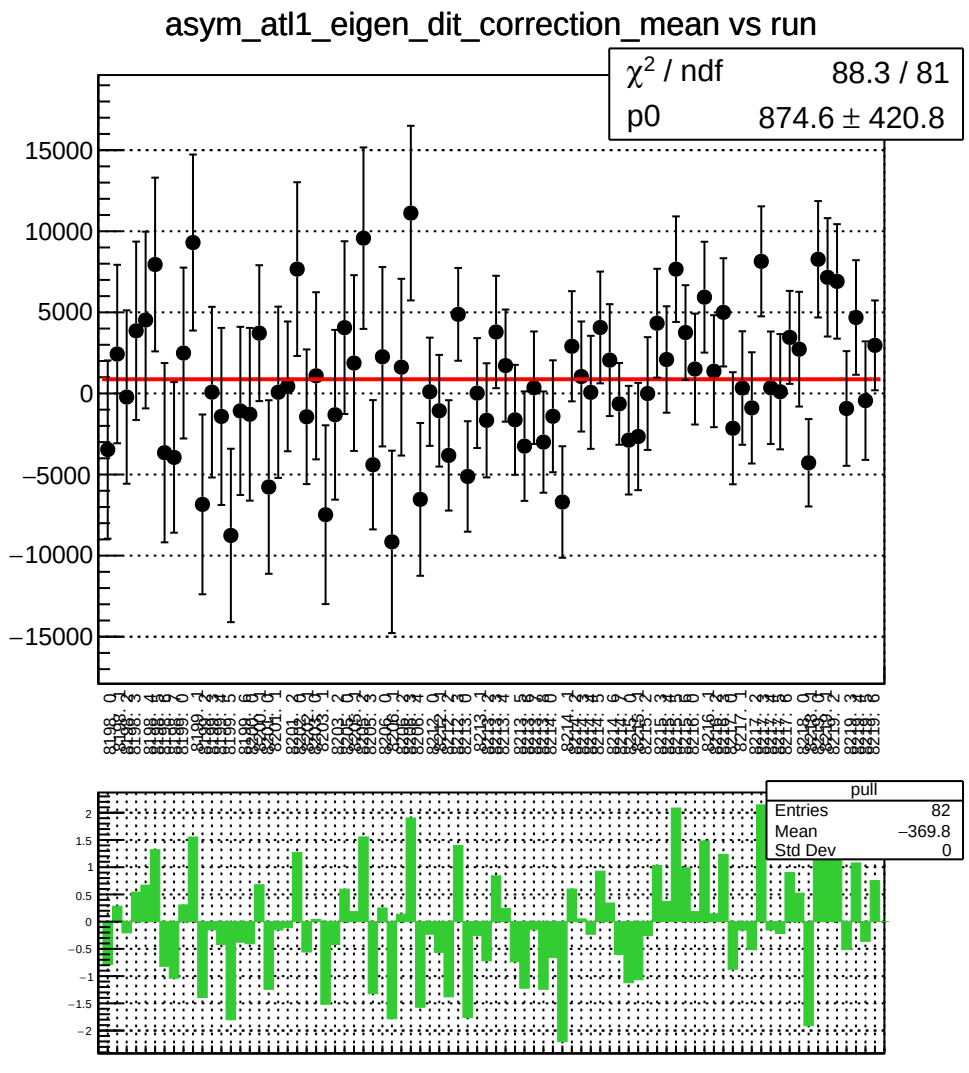

pull1D
Entries 82
Mean −0.01279
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

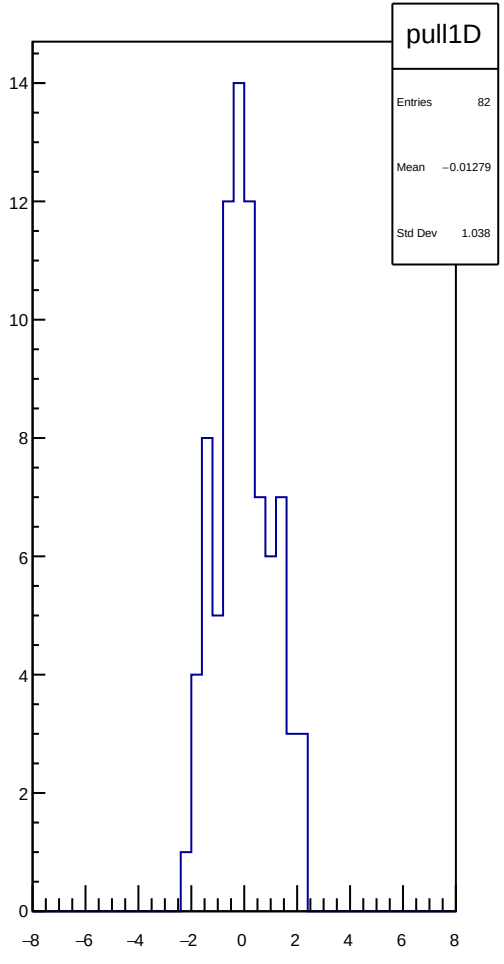

asym_atl1_dit_correction_rms vs run
χ² / ndf 7.092e+04 / 81
p0 370.5 ± 0.2976
550
500
450
400
350
300

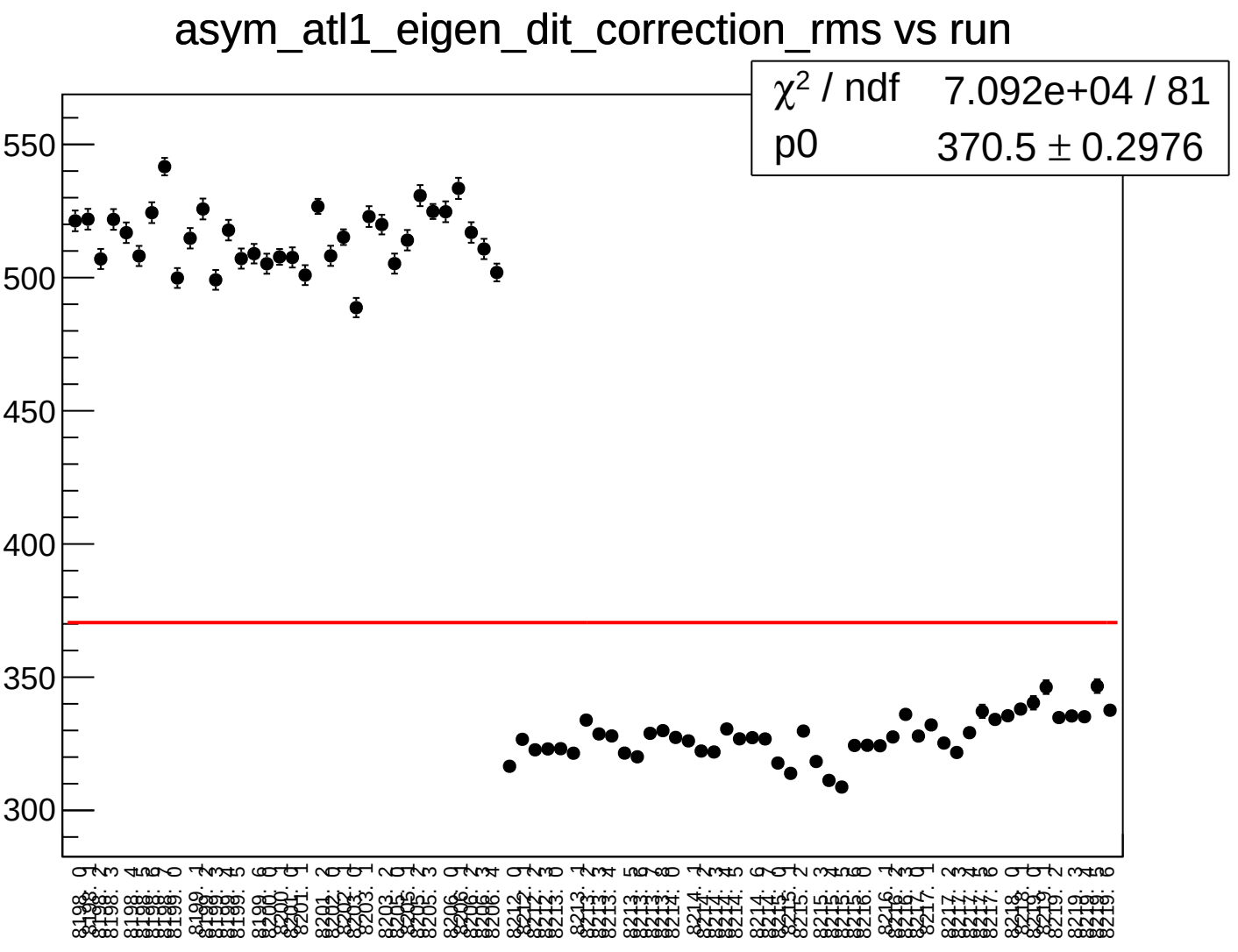

eigen_dit_asym_atl1_mean vs run
χ² / ndf 55.21 / 81
p0 3887 ± 2634
×10³
pull
Entries 82
Mean 639.7
Std Dev 0

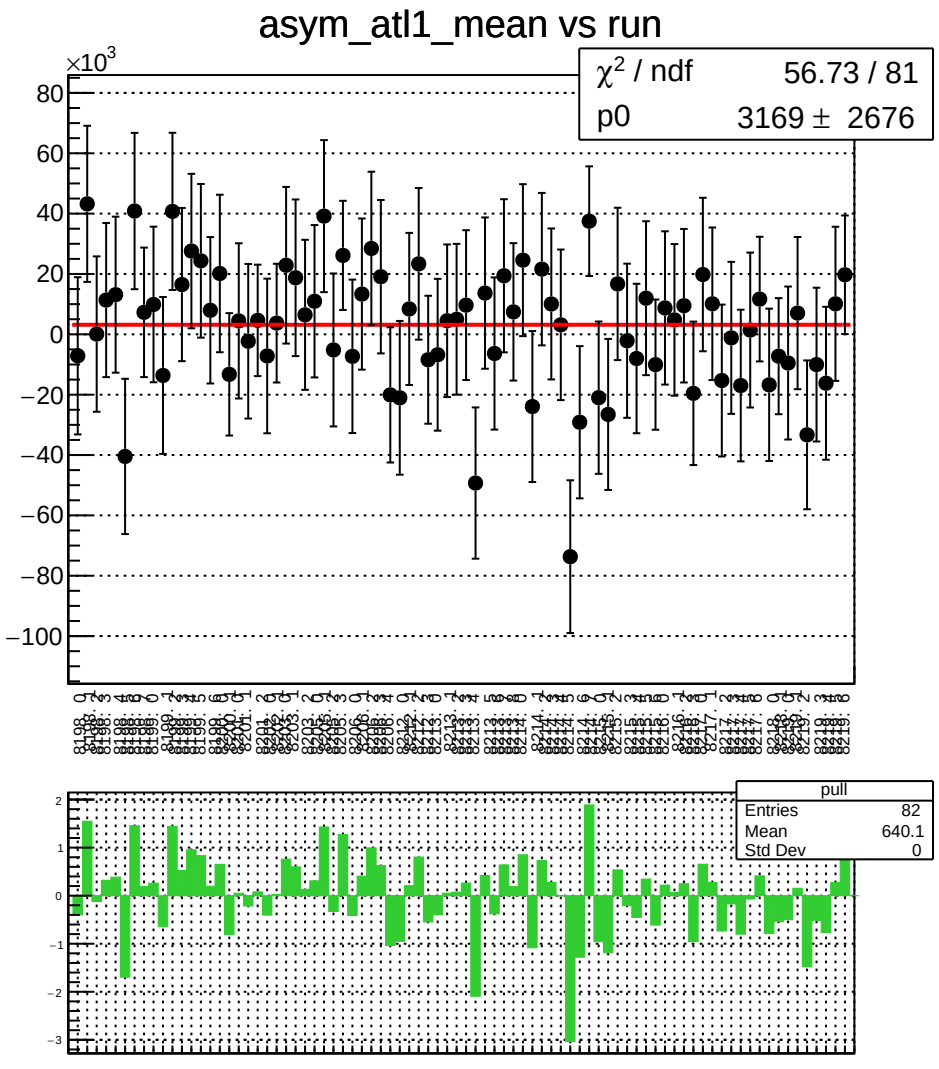

pull1D
Entries 82
Mean −0.007262
Std Dev 0.8205

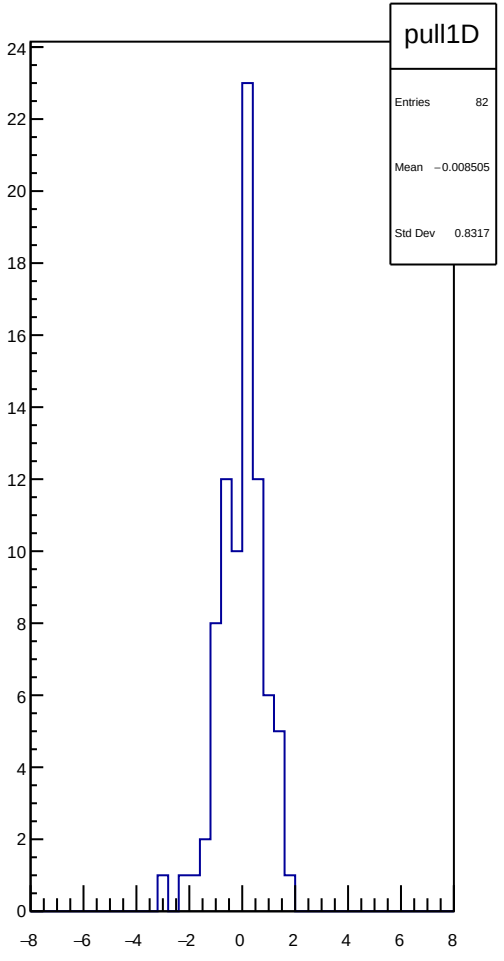

eigen_dit_asym_atl1_rms vs run
$\chi^2$ / ndf 110.8 / 81
p0 2372 ± 1.863
2440
2420
2400
2380
2360
2340
2320
2300

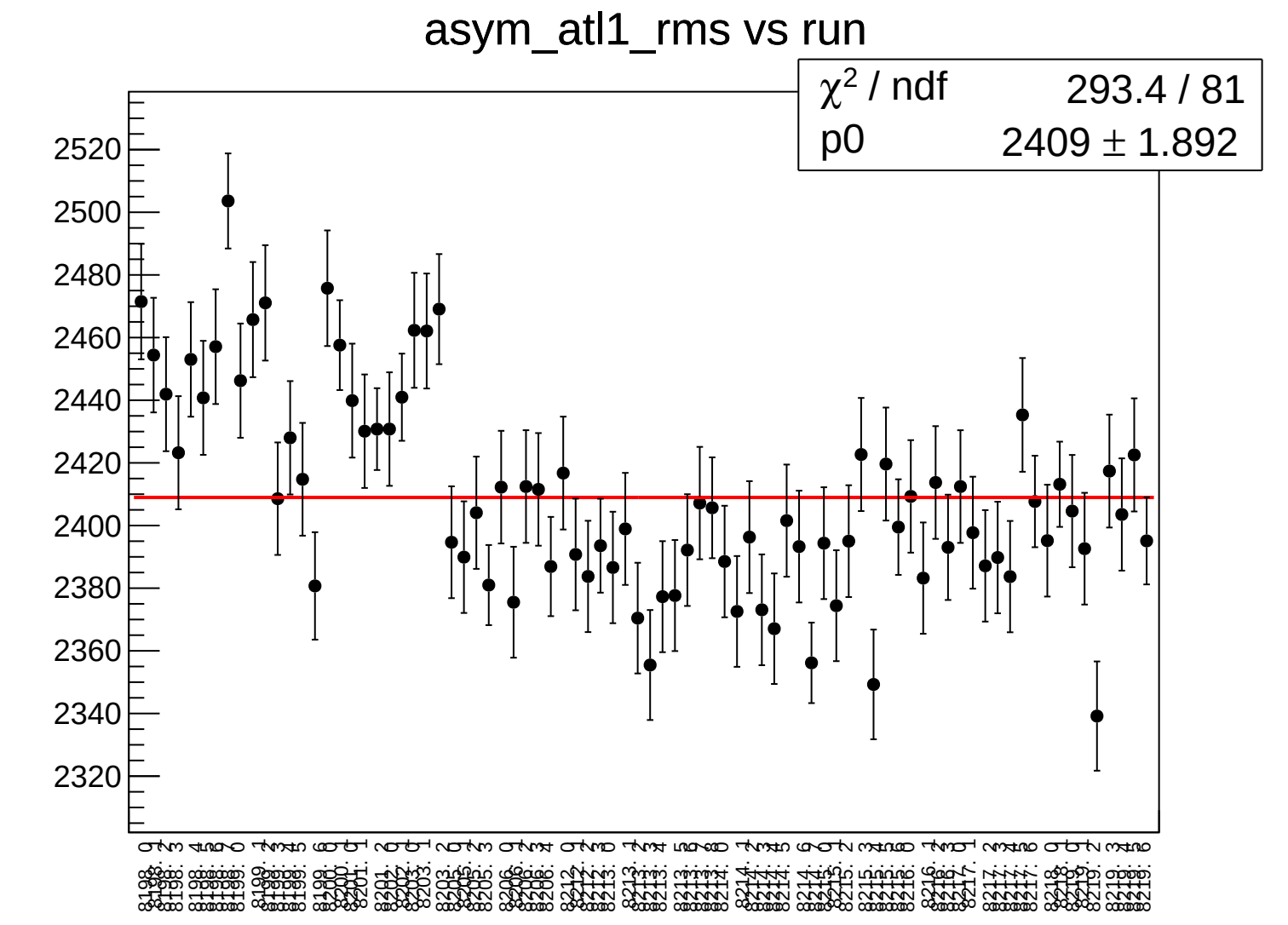

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 88.3 / 81
p0 874.6 ± 420.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −369.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

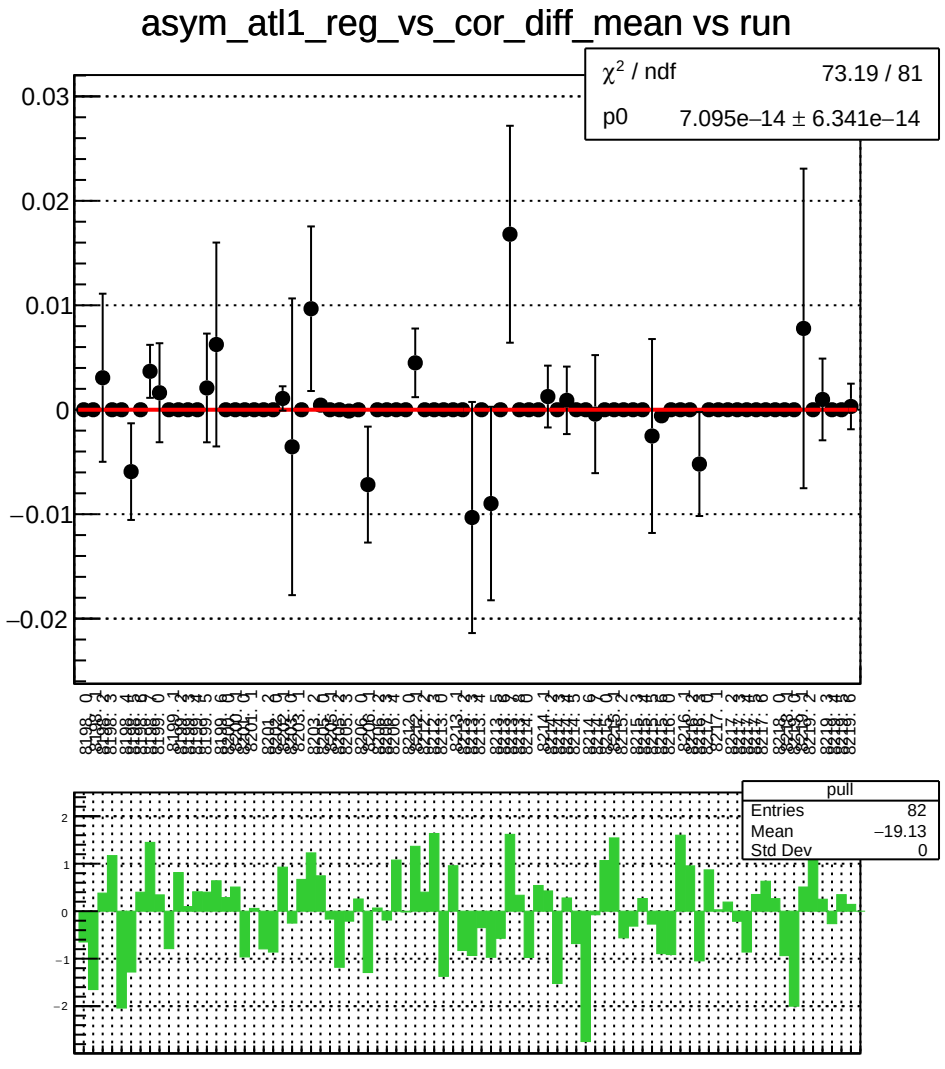

pull1D
Entries 82
Mean −0.01279
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

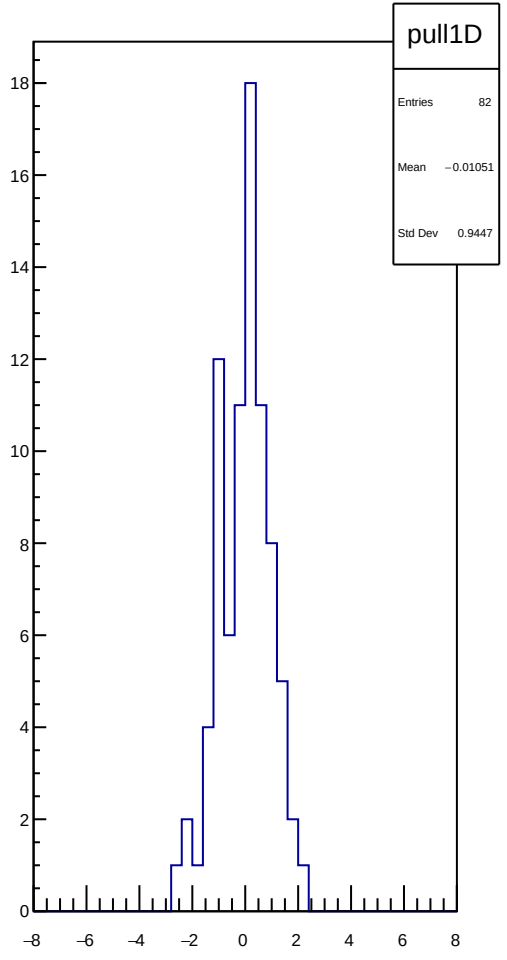

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 7.092e+04 / 81
p0 370.5 ± 0.2976
550
500
450
400
350
300

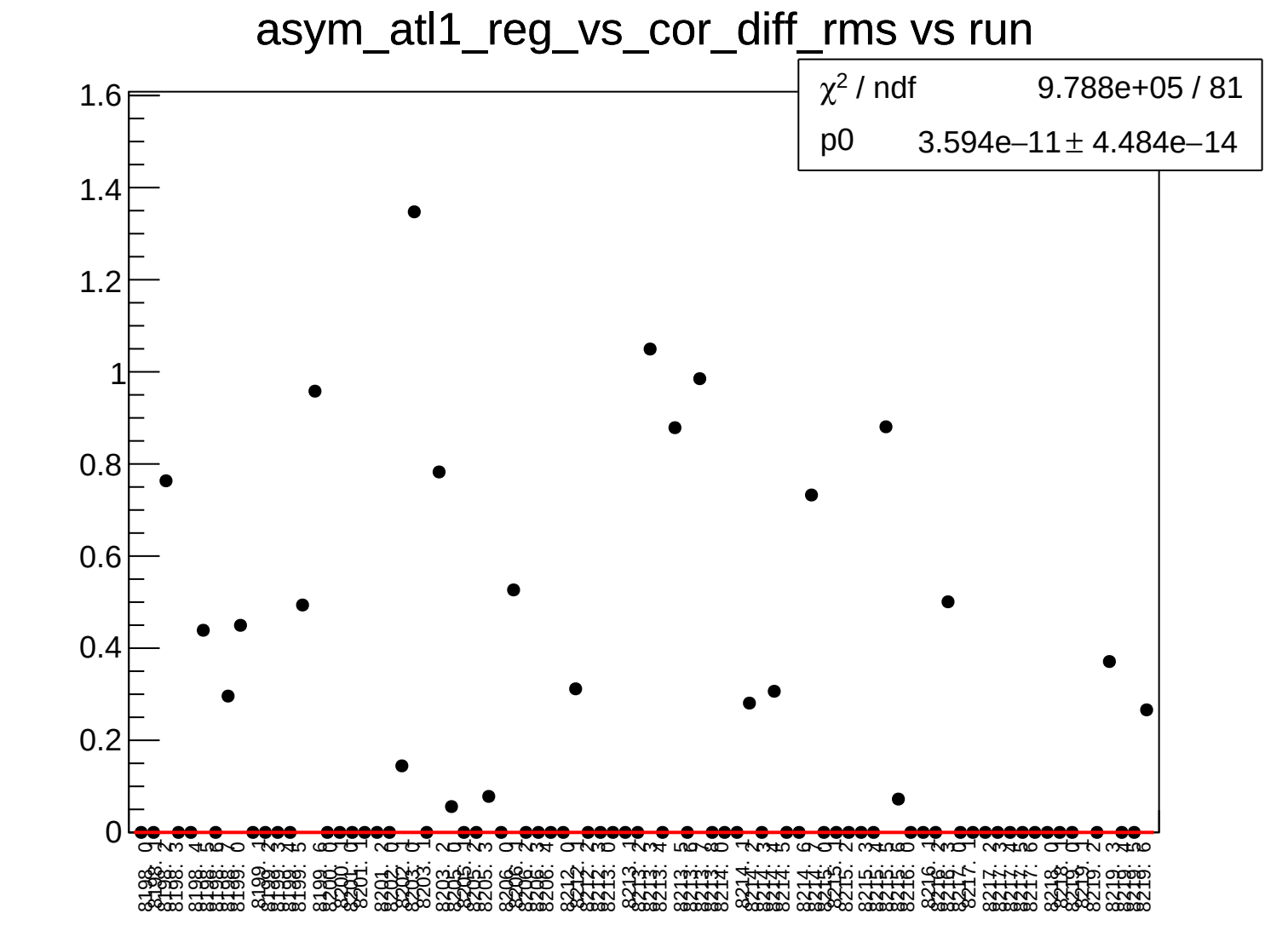

asym_atl1_mean vs run
×10^3
χ^2 / ndf 56.73 / 81
p0 3169 ± 2676
pull
Entries 82
Mean 640.1
Std Dev 0

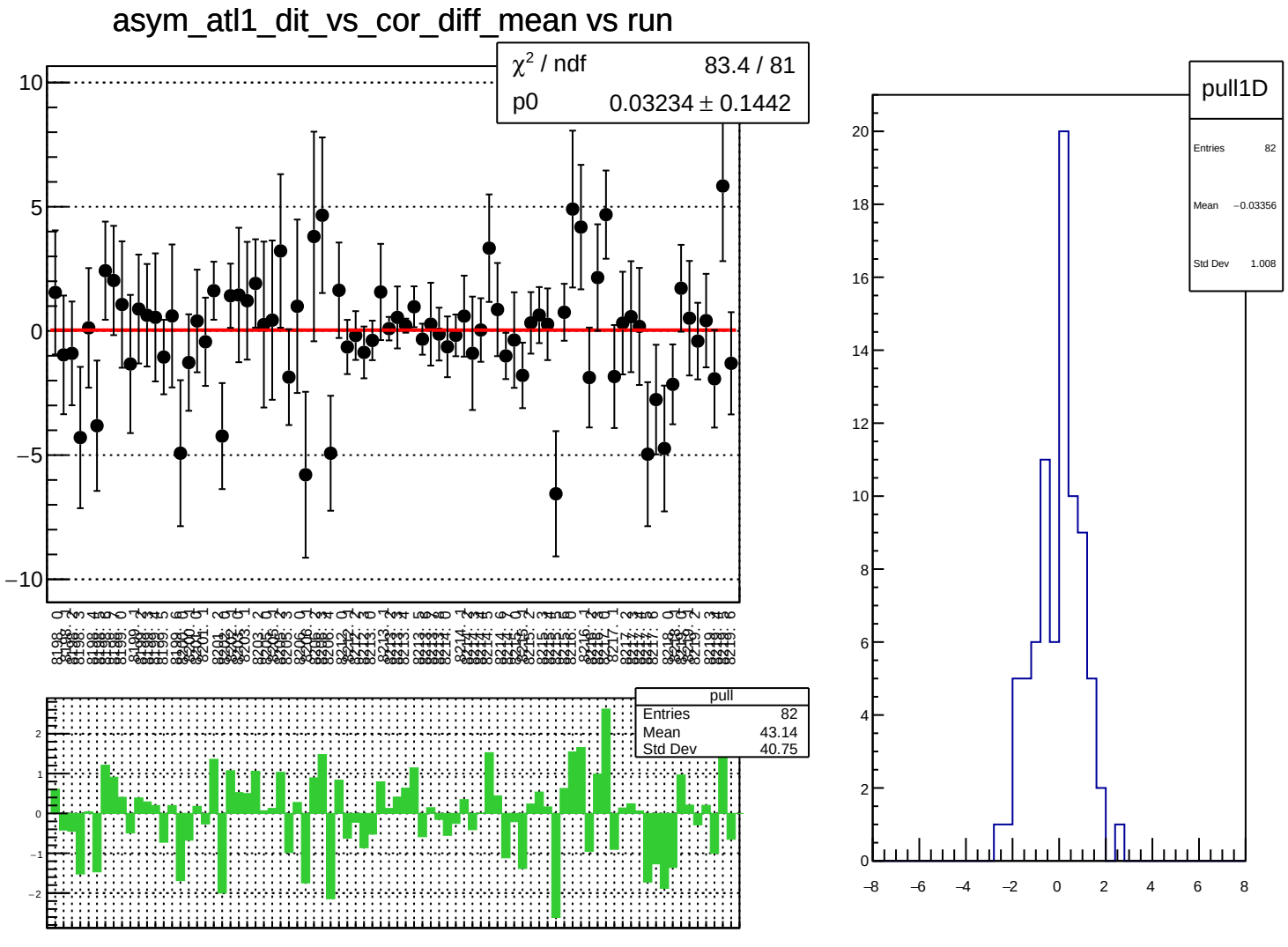

pull1D
Entries 82
Mean −0.008505
Std Dev 0.8317

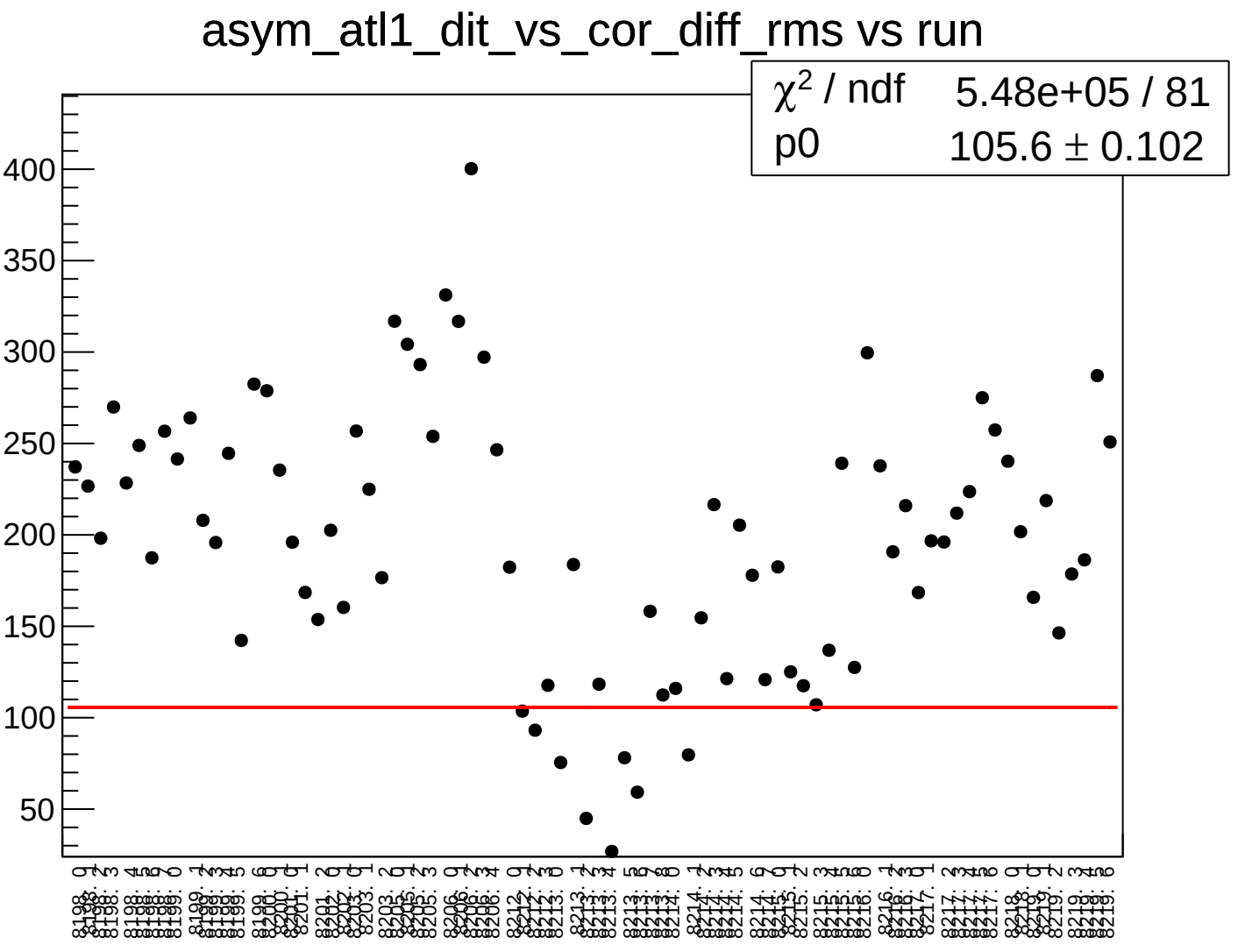

asym_atl1_rms vs run
χ² / ndf 293.4 / 81
p0 2409 ± 1.892
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

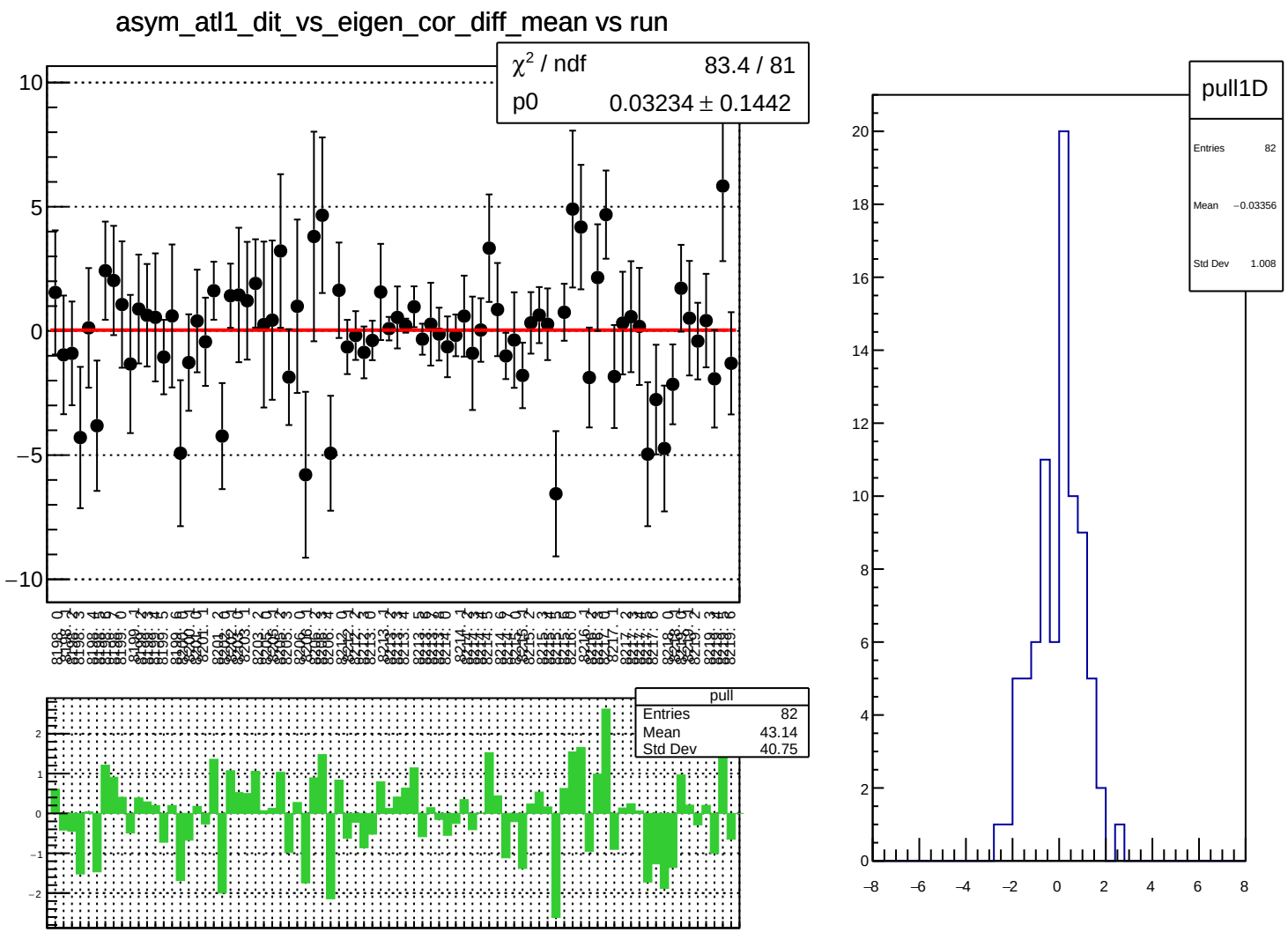

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 73.19 / 81
p0 7.095e−14 ± 6.341e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean −19.13
Std Dev 0
2
1
0
−1
−2

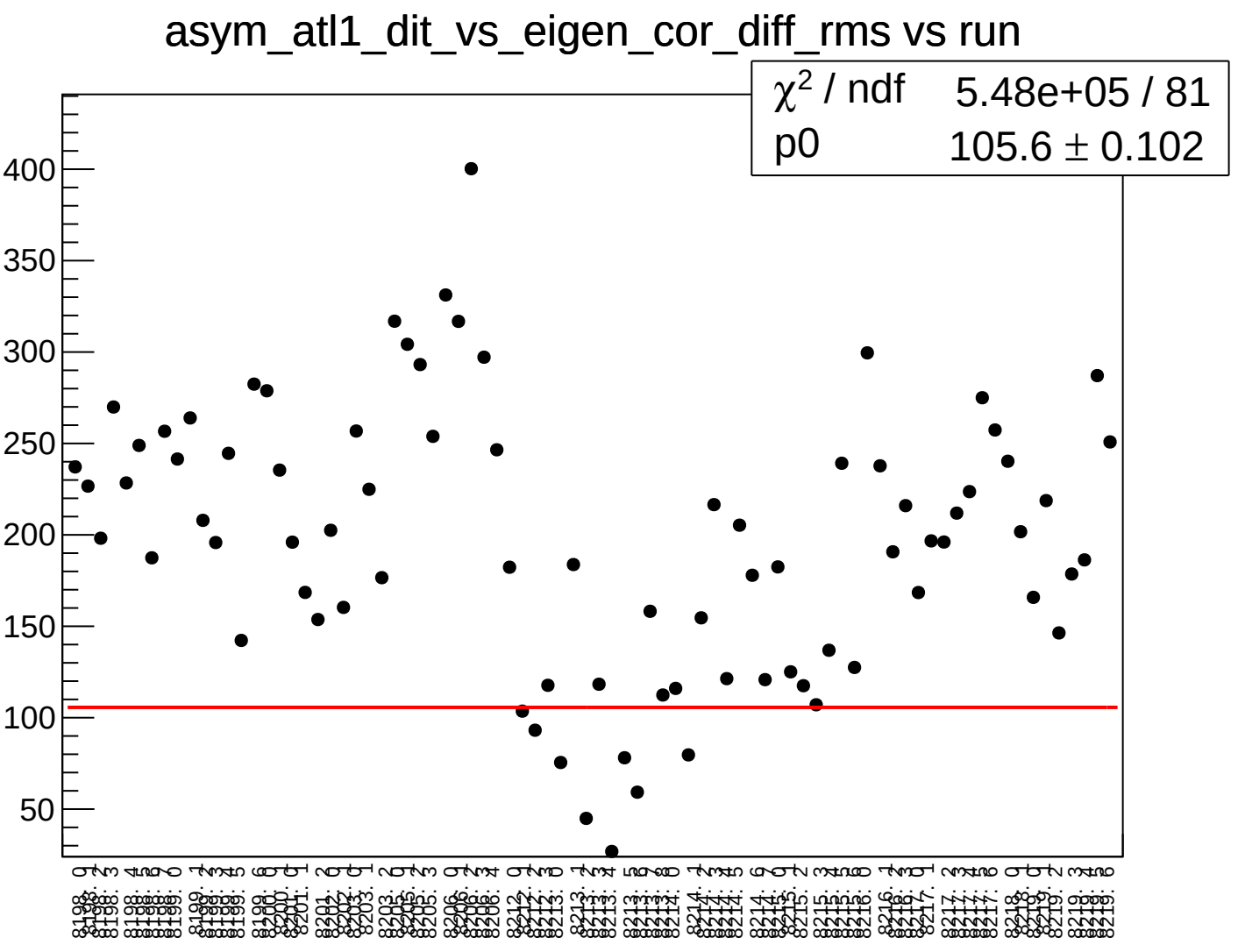

pull1D
Entries 82
Mean −0.01051
Std Dev 0.9447
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

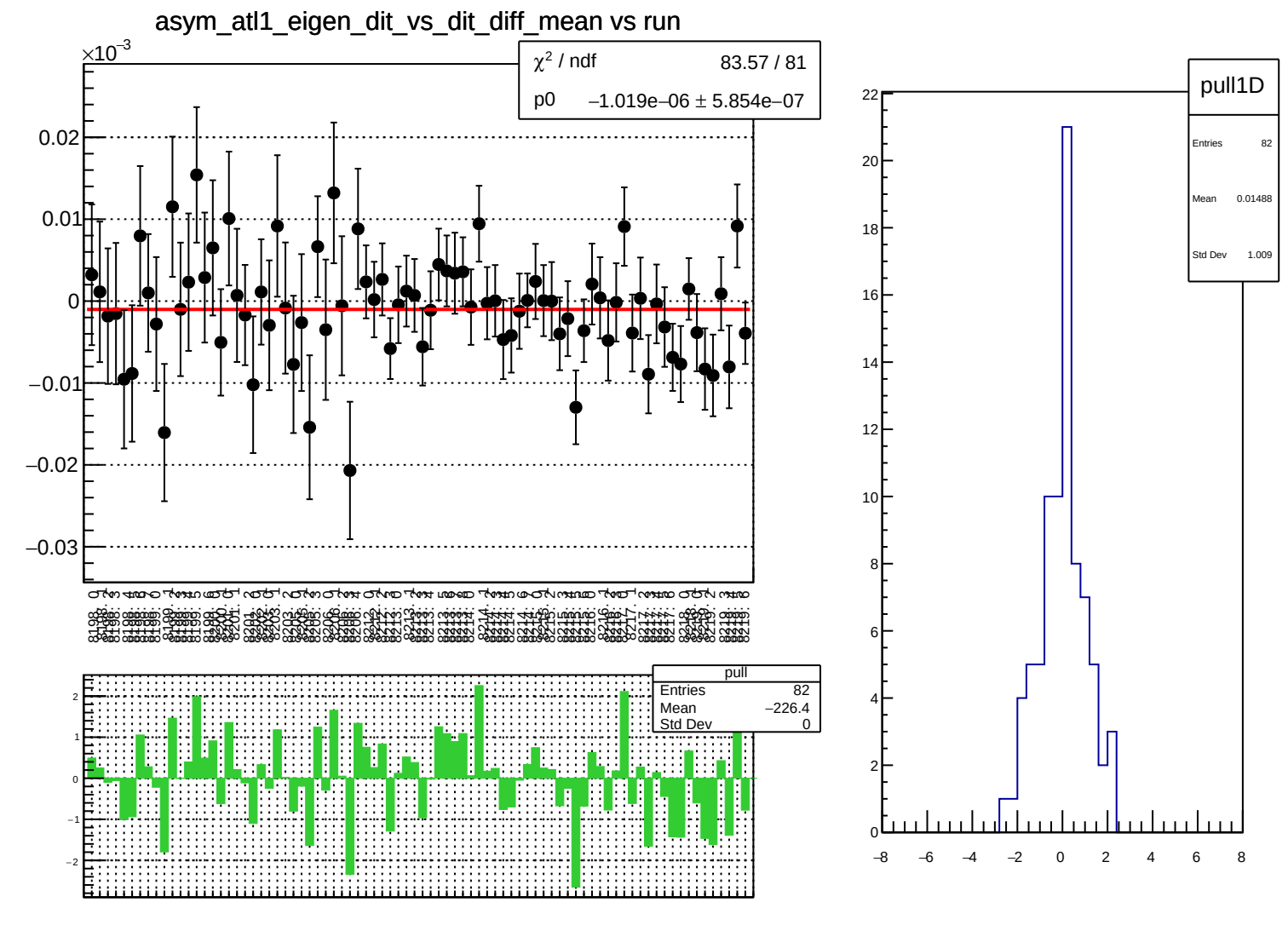

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.788e+05 / 81
p0 3.594e−11 ± 4.484e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

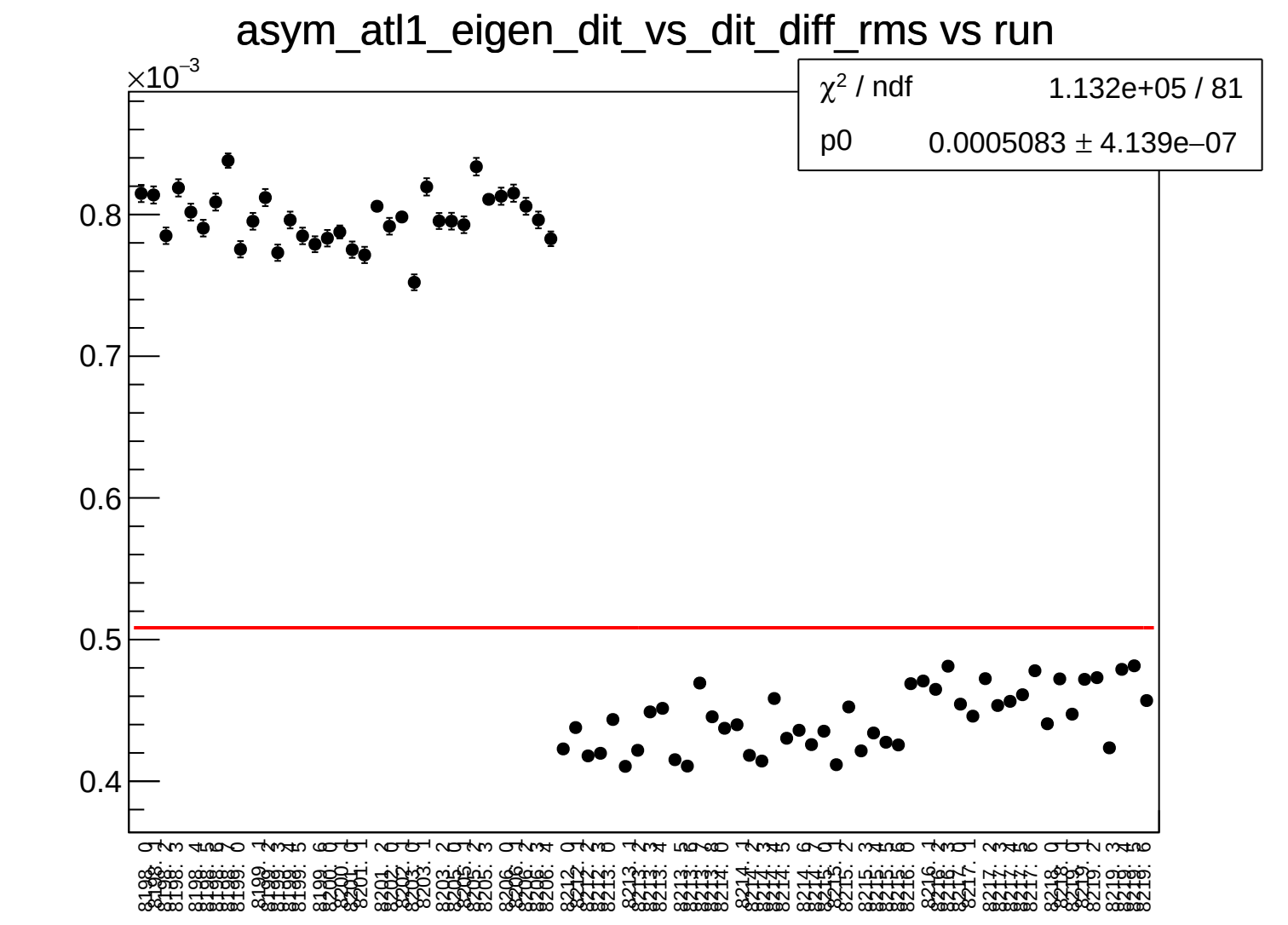

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 83.4 / 81
p0 0.03234 ± 0.1442
pull
Entries 82
Mean 43.14
Std Dev 40.75
pull1D
Entries 82
Mean −0.03356
Std Dev 1.008

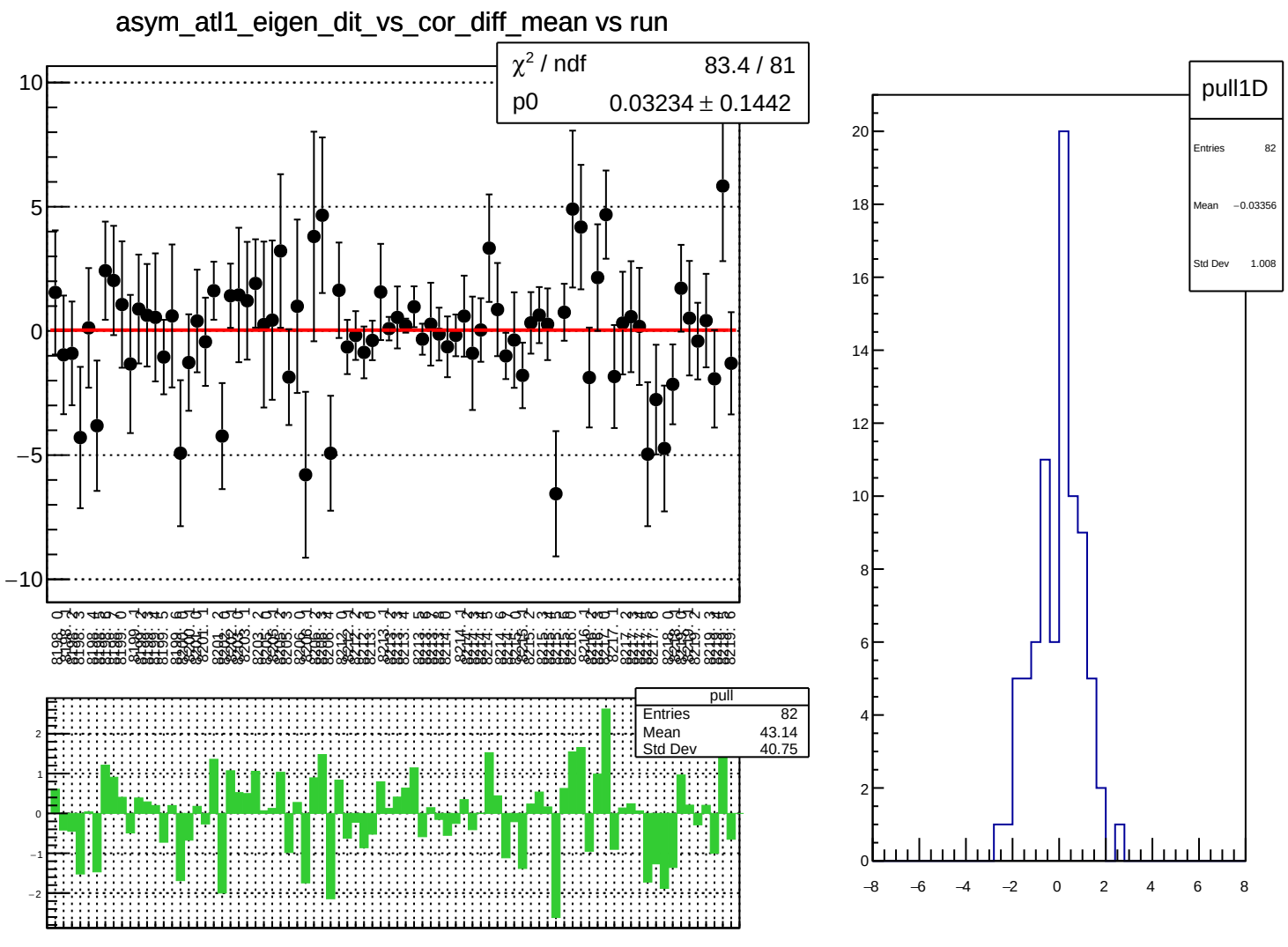

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 5.48e+05 / 81
p0 105.6 ± 0.102
400
350
300
250
200
150
100
50

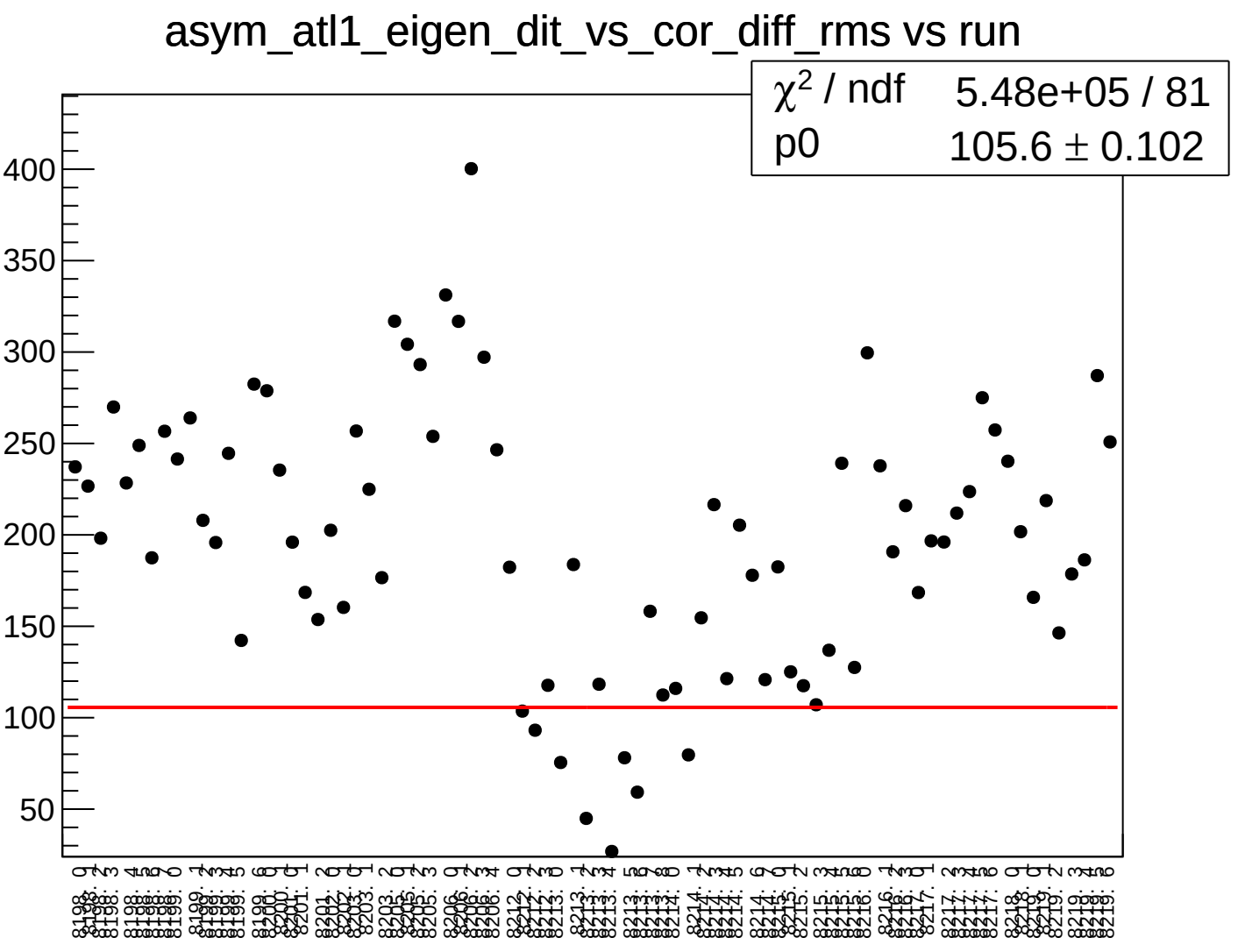

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.4 / 81
p0 0.03234 ± 0.1442
pull
Entries 82
Mean 43.14
Std Dev 40.75
pull1D
Entries 82
Mean −0.03356
Std Dev 1.008

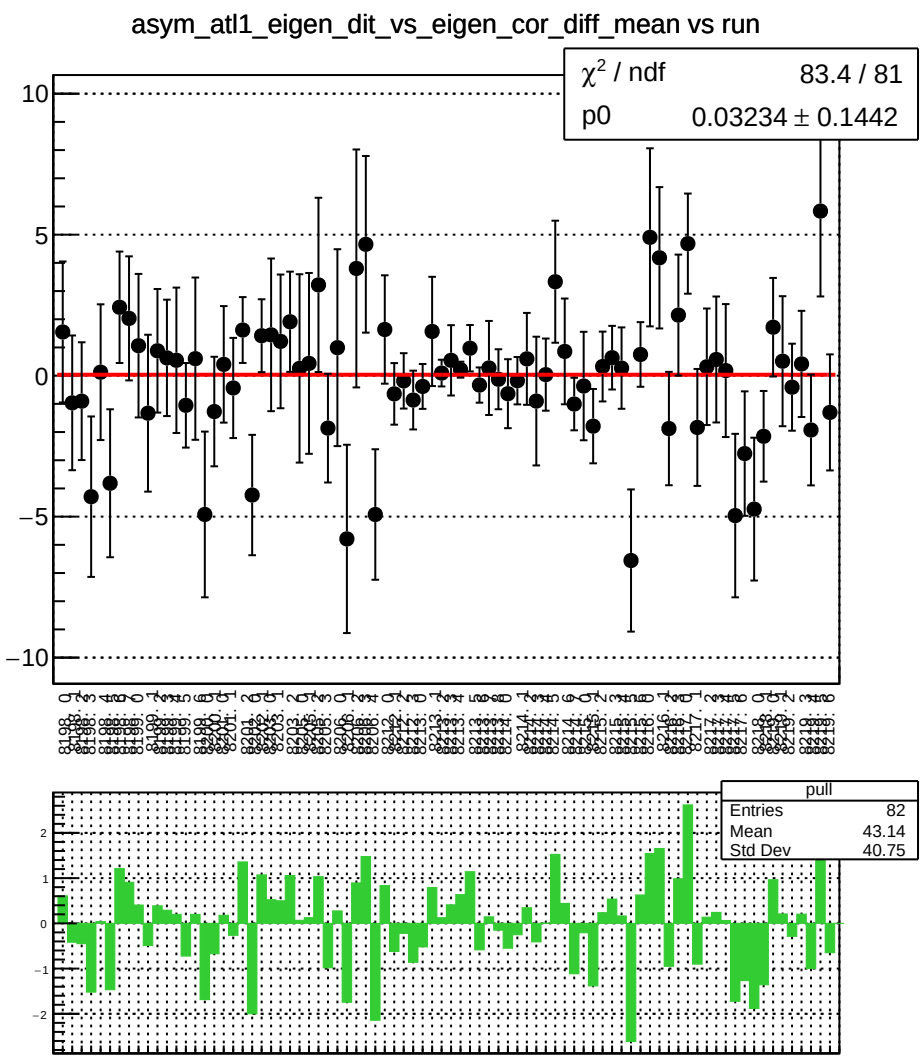

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.48e+05 / 81
p0 105.6 ± 0.102
400
350
300
250
200
150
100
50

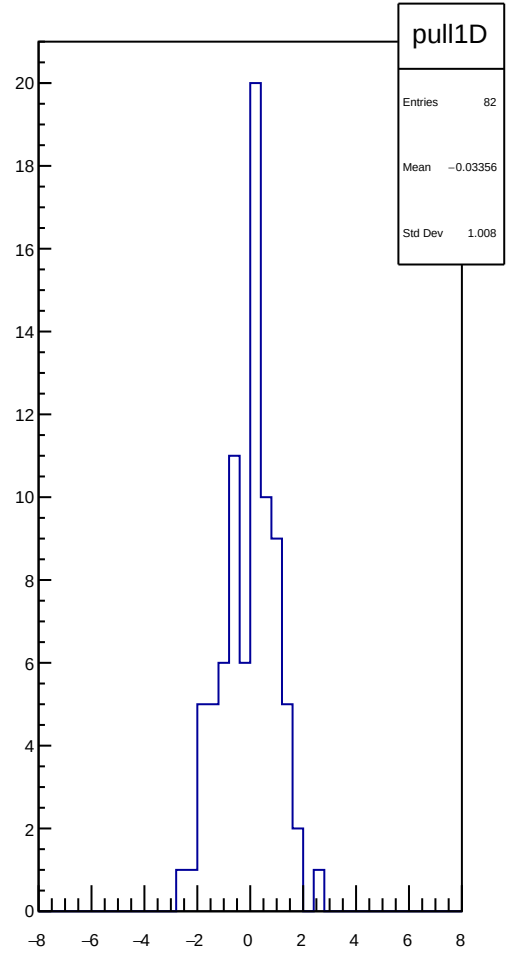

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 83.57 / 81
p0 −1.019e−06 ± 5.854e−07
×10⁻³
pull
Entries 82
Mean −226.4
Std Dev 0
pull1D
Entries 82
Mean 0.01488
Std Dev 1.009

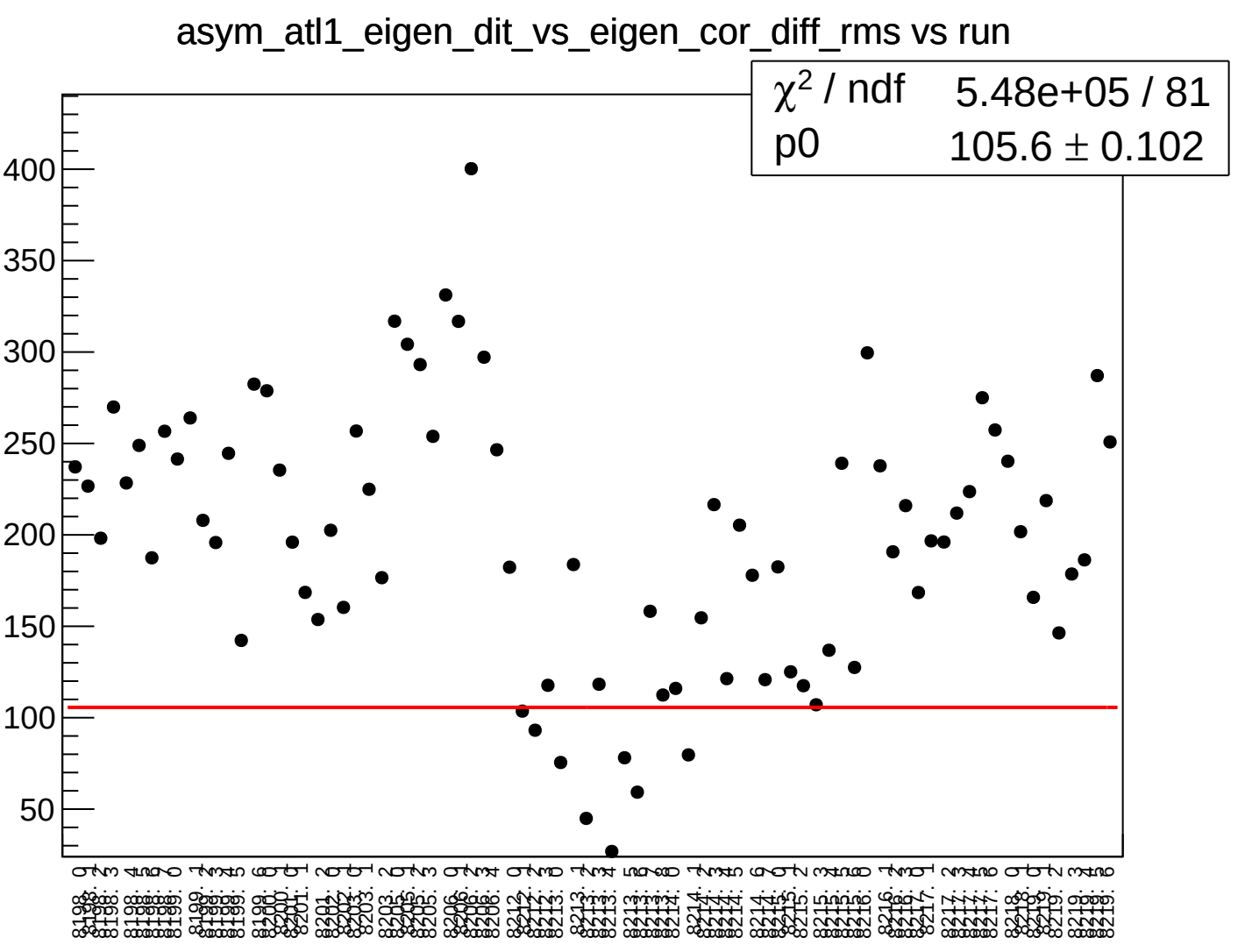

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.132e+05 / 81
p0 0.0005083 ± 4.139e−07
0.8
0.7
0.6
0.5
0.4

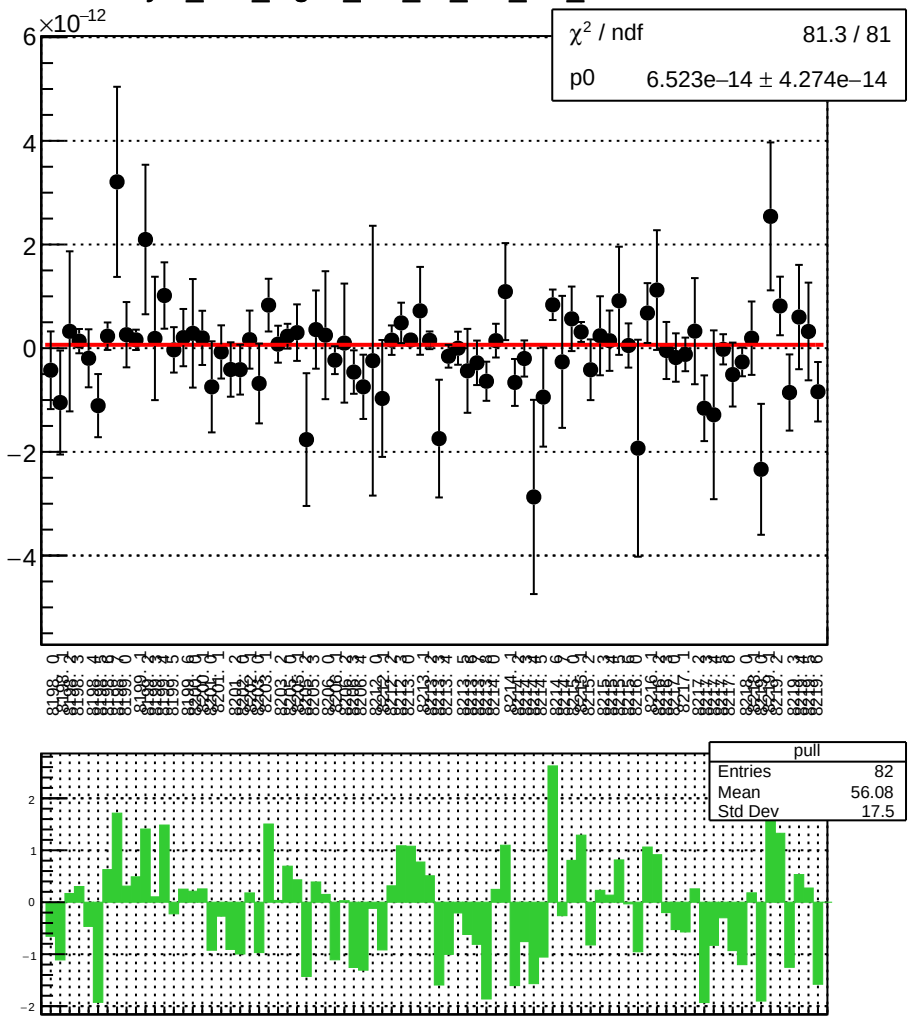

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.4 / 81
p0 0.03234 ± 0.1442
pull
Entries 82
Mean 43.14
Std Dev 40.75
pull1D
Entries 82
Mean −0.03356
Std Dev 1.008

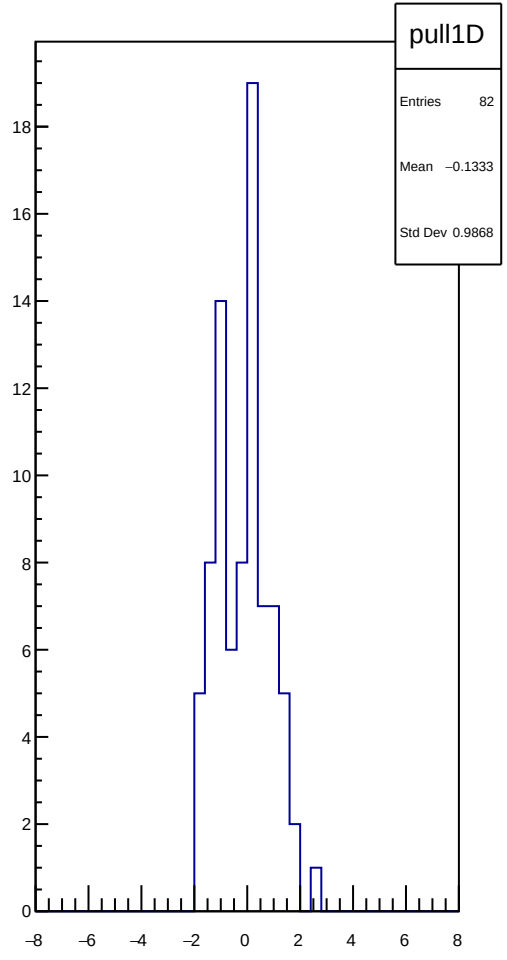

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.48e+05 / 81
p0 105.6 ± 0.102
400
350
300
250
200
150
100
50

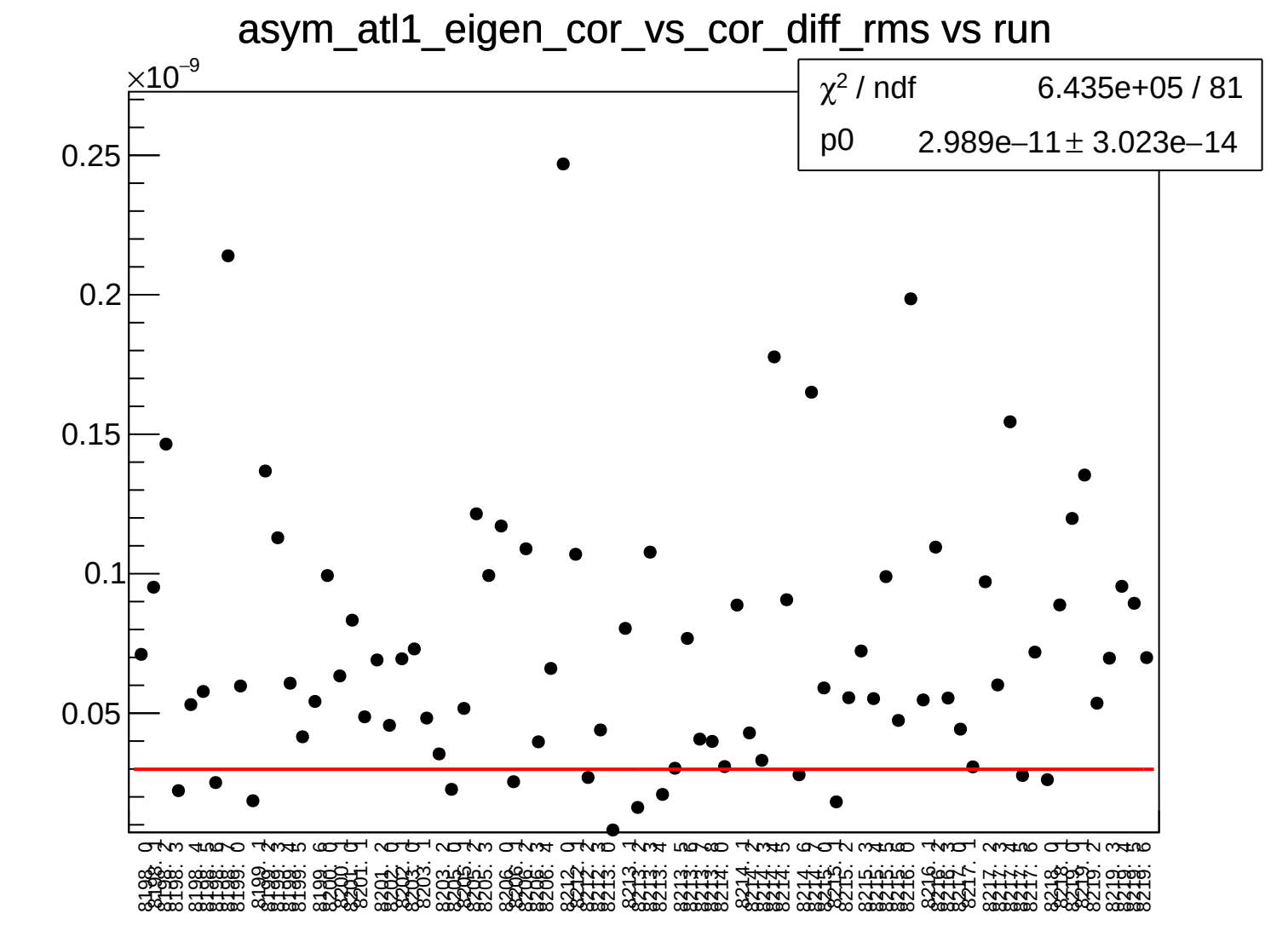

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.4 / 81
p0 0.03234 ± 0.1442
pull
Entries 82
Mean 43.14
Std Dev 40.75

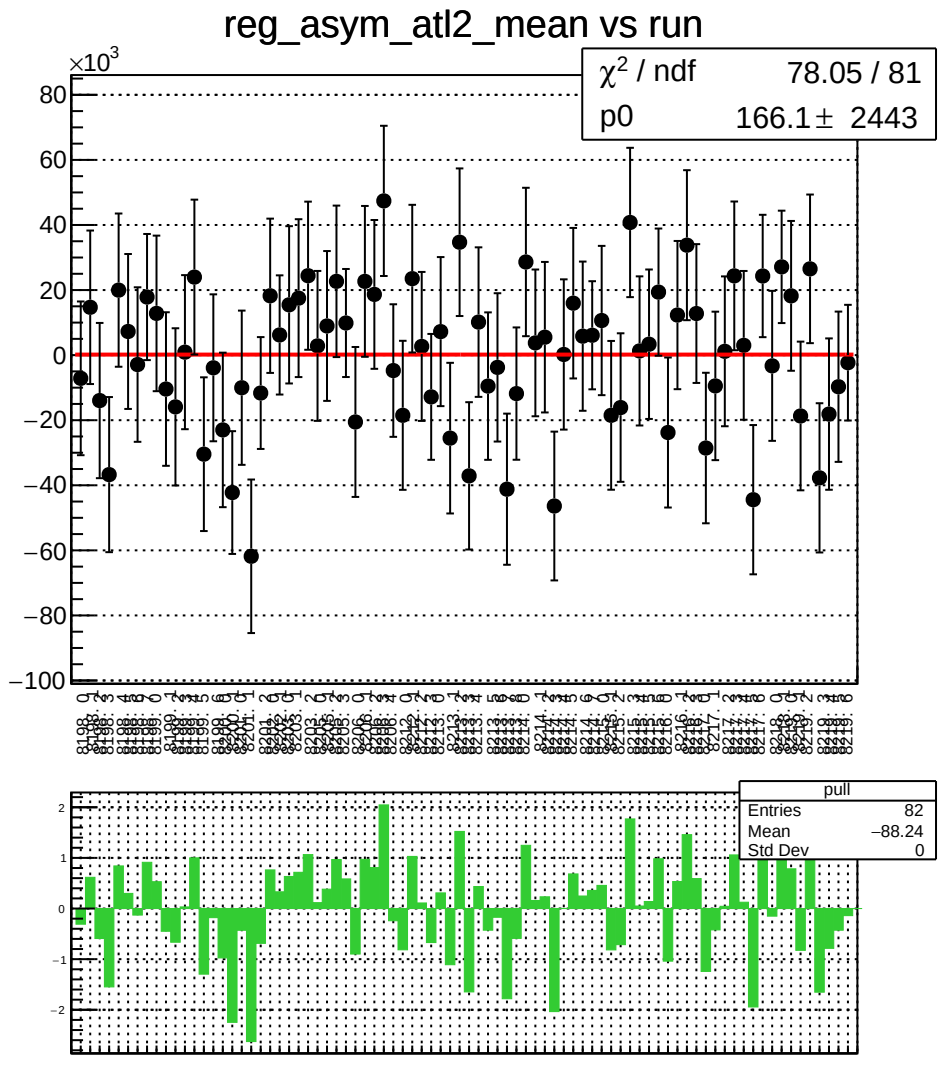

pull1D
Entries 82
Mean −0.03356
Std Dev 1.008

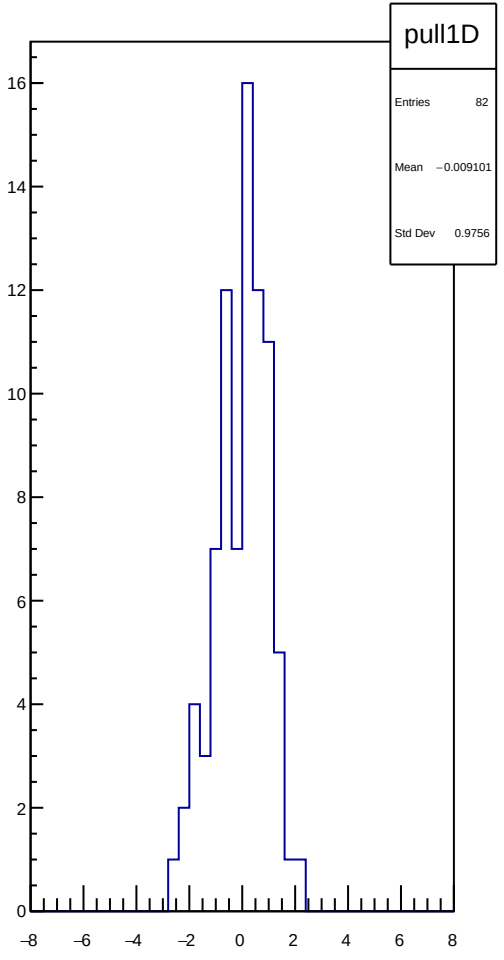

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.48e+05 / 81
p0 105.6 ± 0.102
400
350
300
250
200
150
100
50

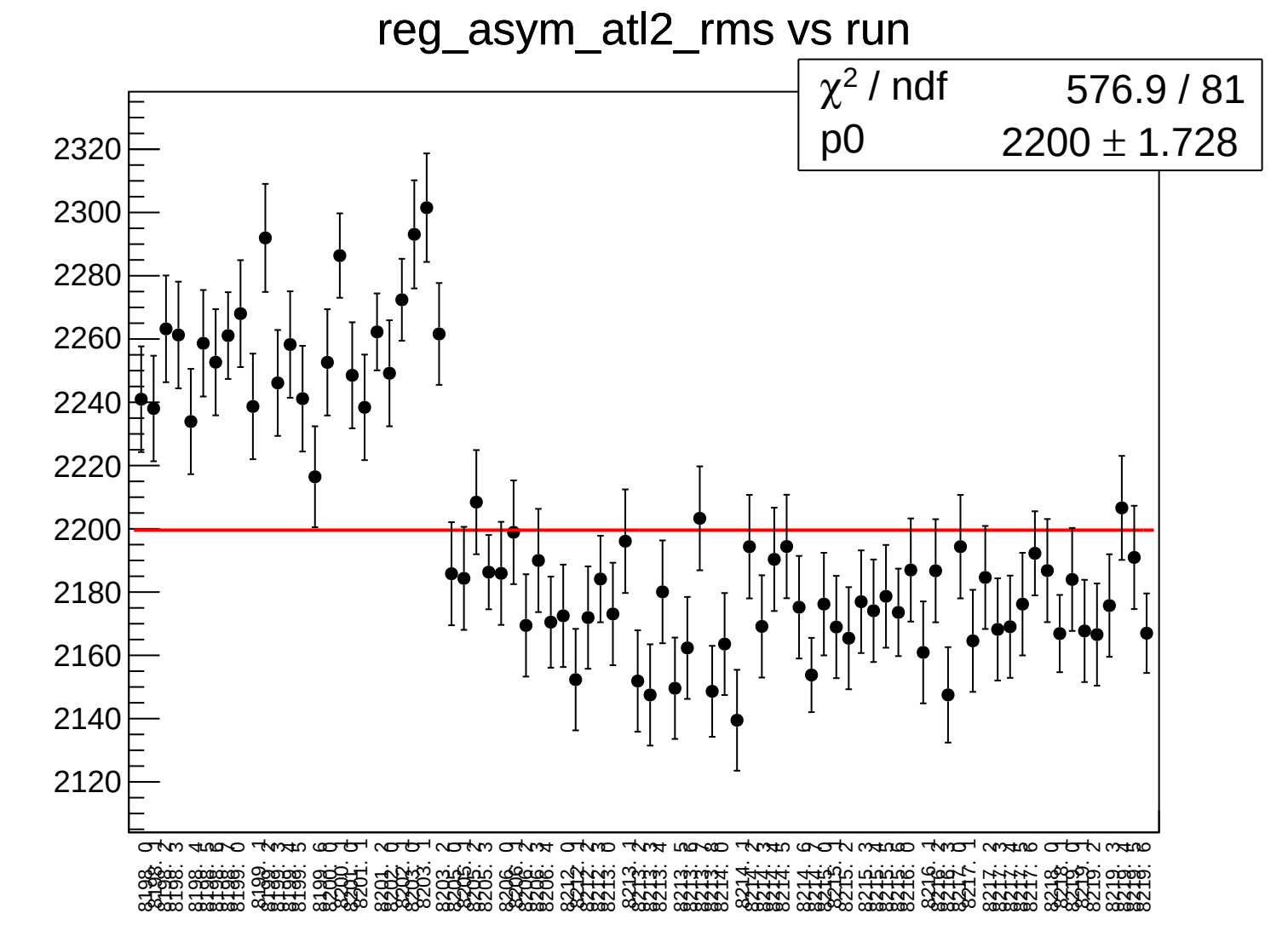

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.3 / 81
p0 6.523e−14 ± 4.274e−14
pull
Entries 82
Mean 56.08
Std Dev 17.5

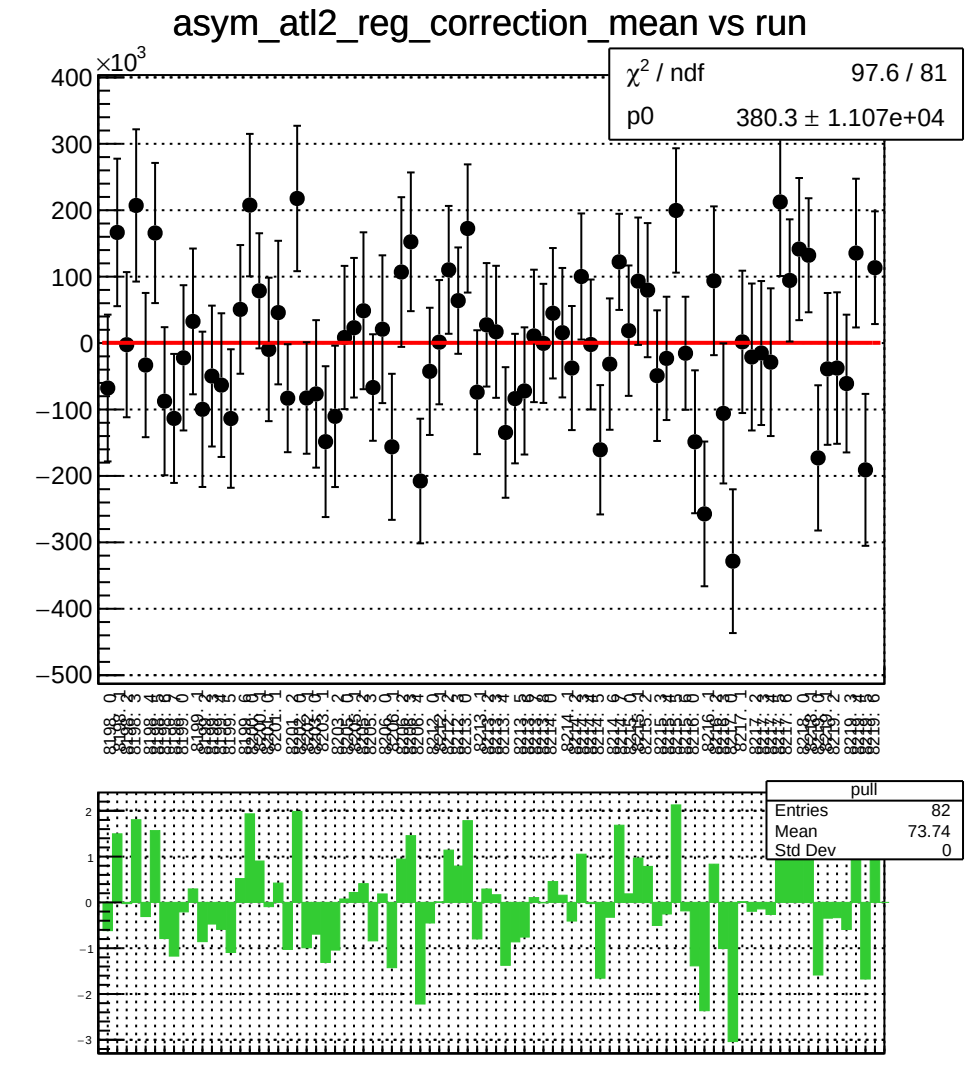

pull1D
Entries 82
Mean −0.1333
Std Dev 0.9868

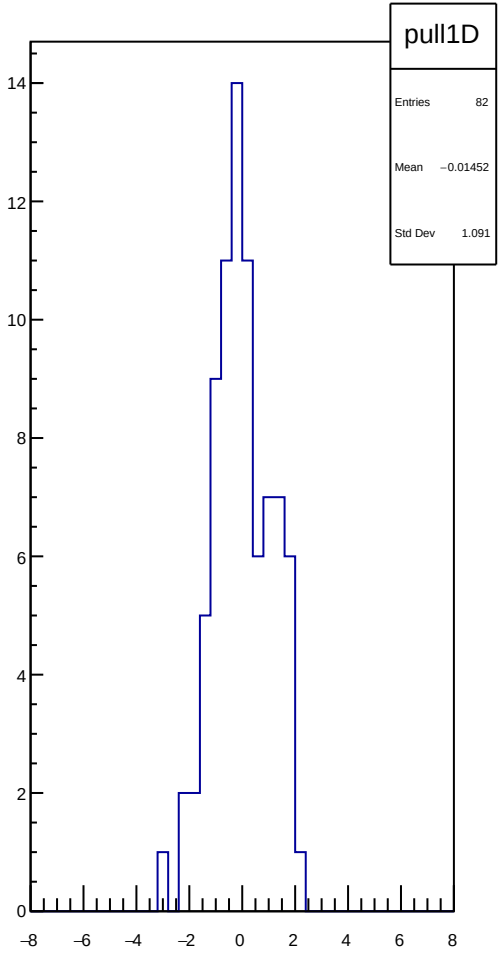

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.435e+05 / 81
p0 2.989e−11 ± 3.023e−14
0.25
0.2
0.15
0.1
0.05

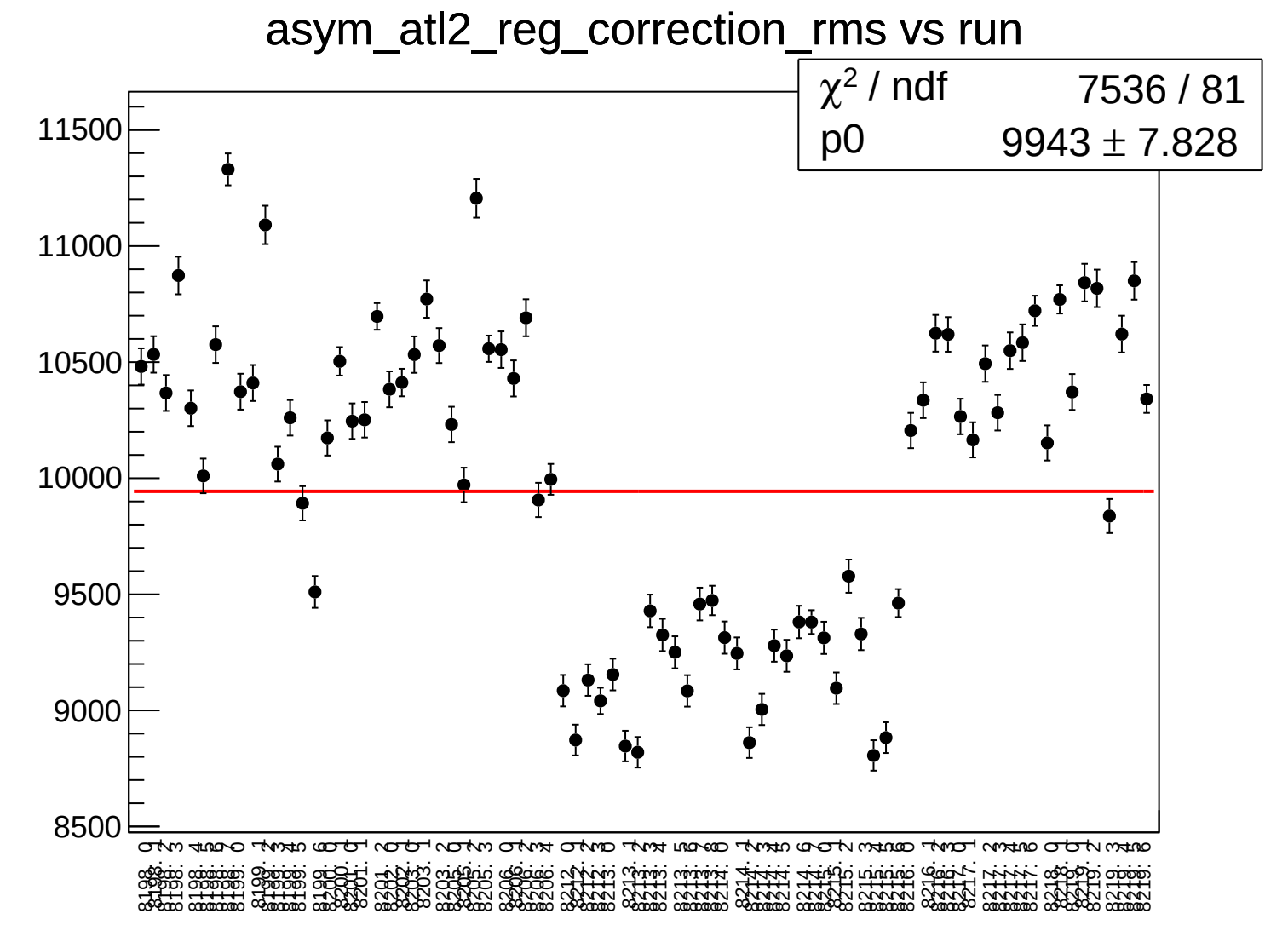

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 78.05 / 81
p0 166.1 ± 2443
pull
Entries 82
Mean −88.24
Std Dev 0

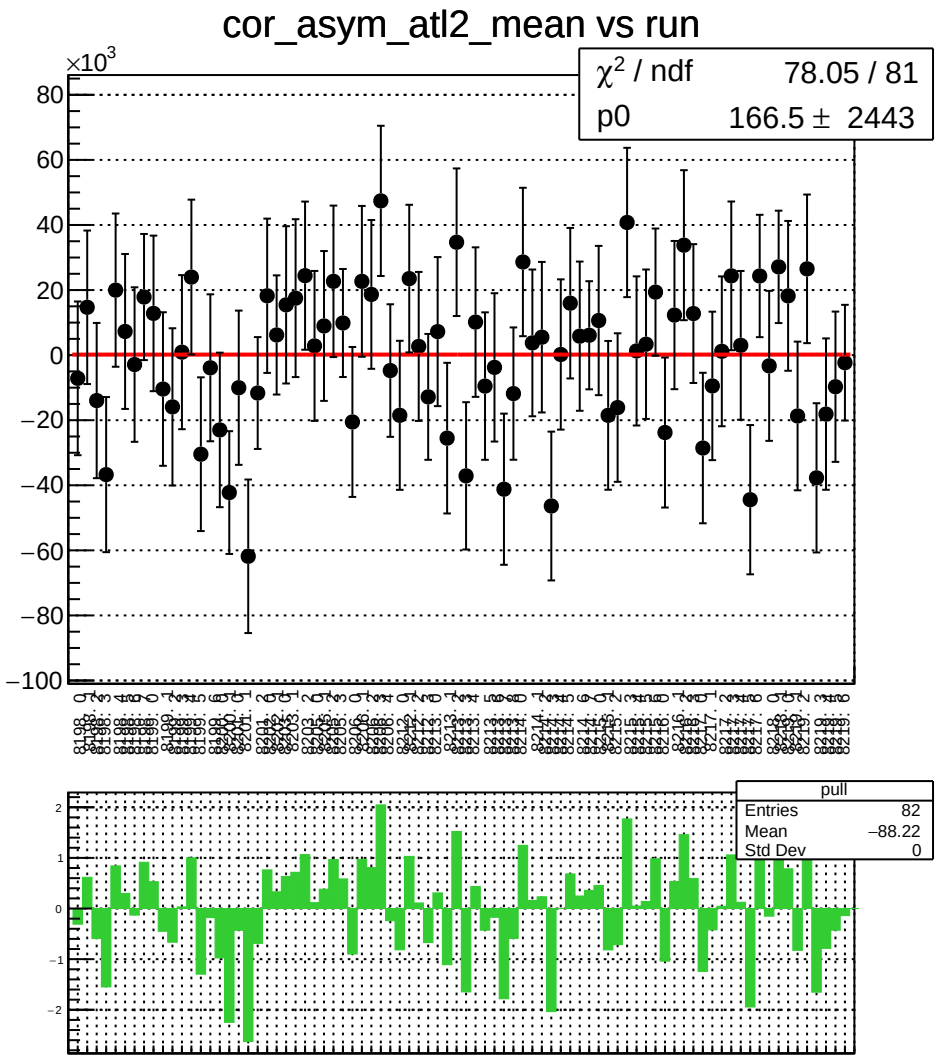

pull1D
Entries 82
Mean −0.009101
Std Dev 0.9756

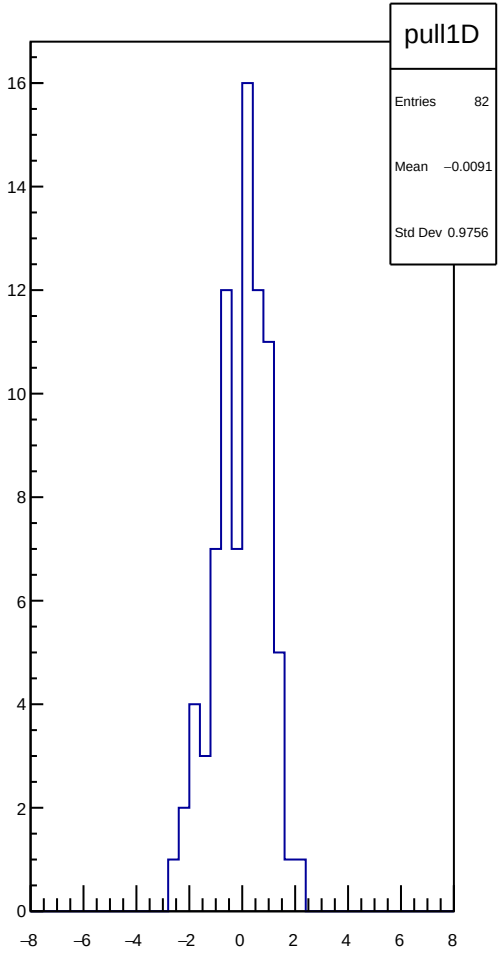

reg_asym_atl2_rms vs run
$\chi^2$ / ndf 576.9 / 81
p0 2200 ± 1.728
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

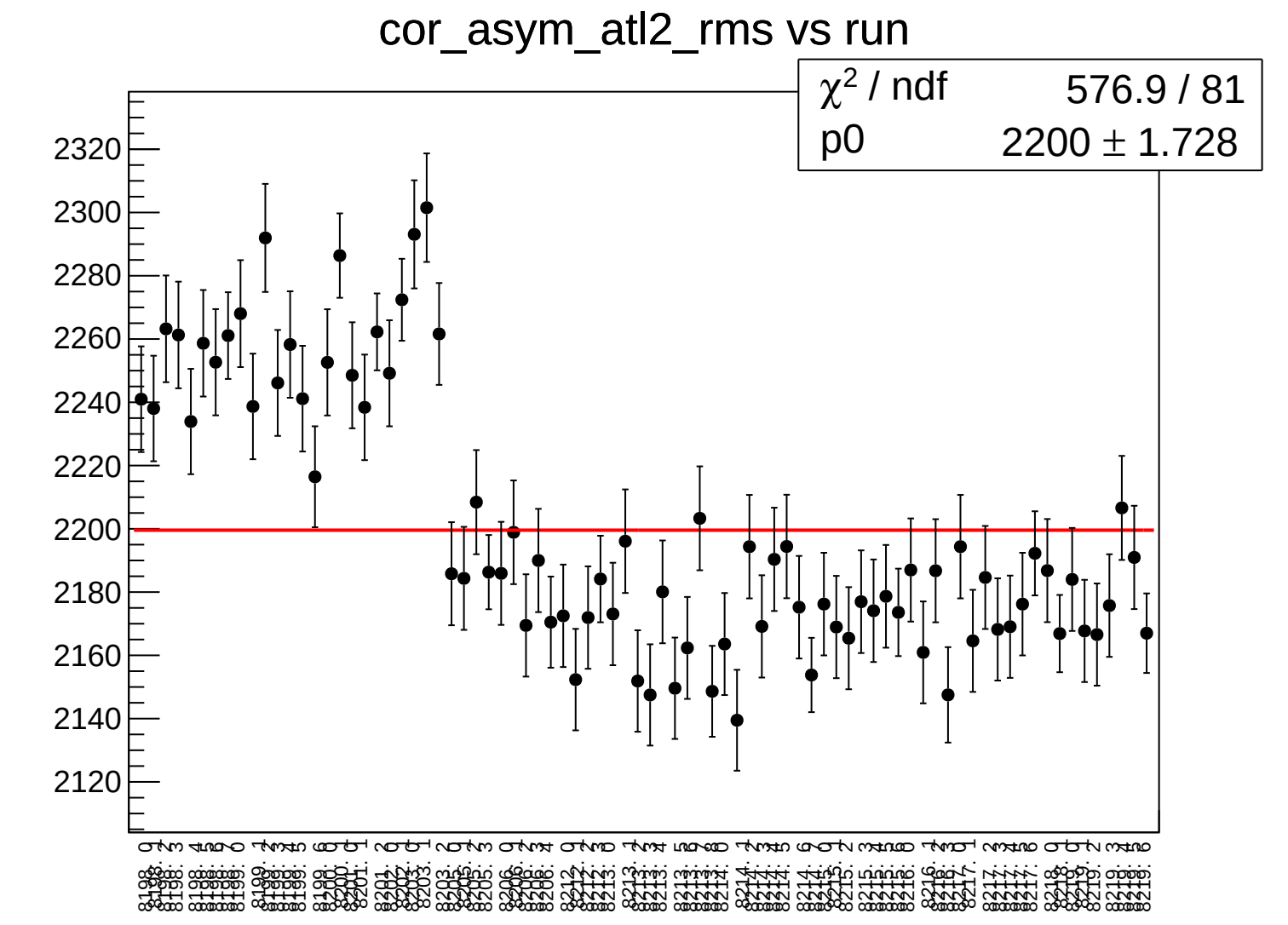

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 97.6 / 81
p0 380.3 ± 1.107e+04
pull
Entries 82
Mean 73.74
Std Dev 0

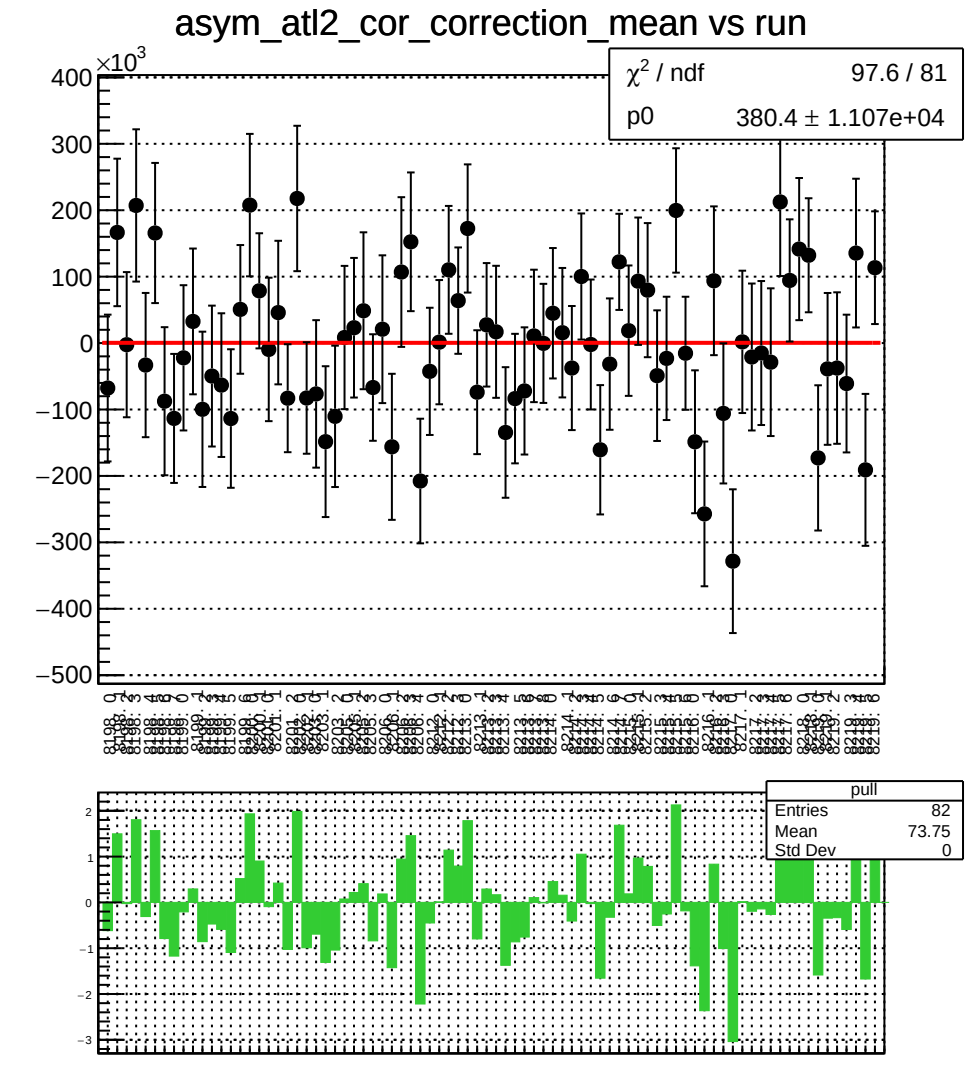

pull1D
Entries 82
Mean −0.01452
Std Dev 1.091

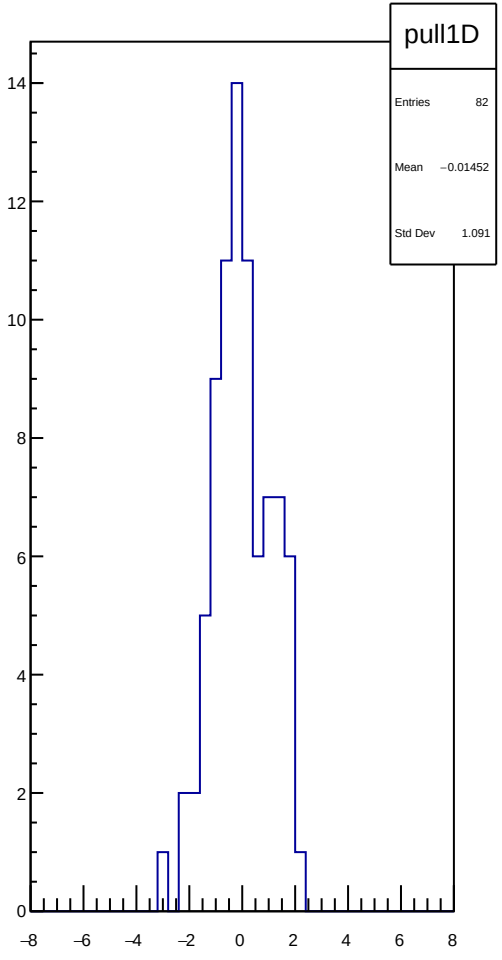

asym_atl2_reg_correction_rms vs run
χ² / ndf 7536 / 81
p0 9943 ± 7.828
11500
11000
10500
10000
9500
9000
8500

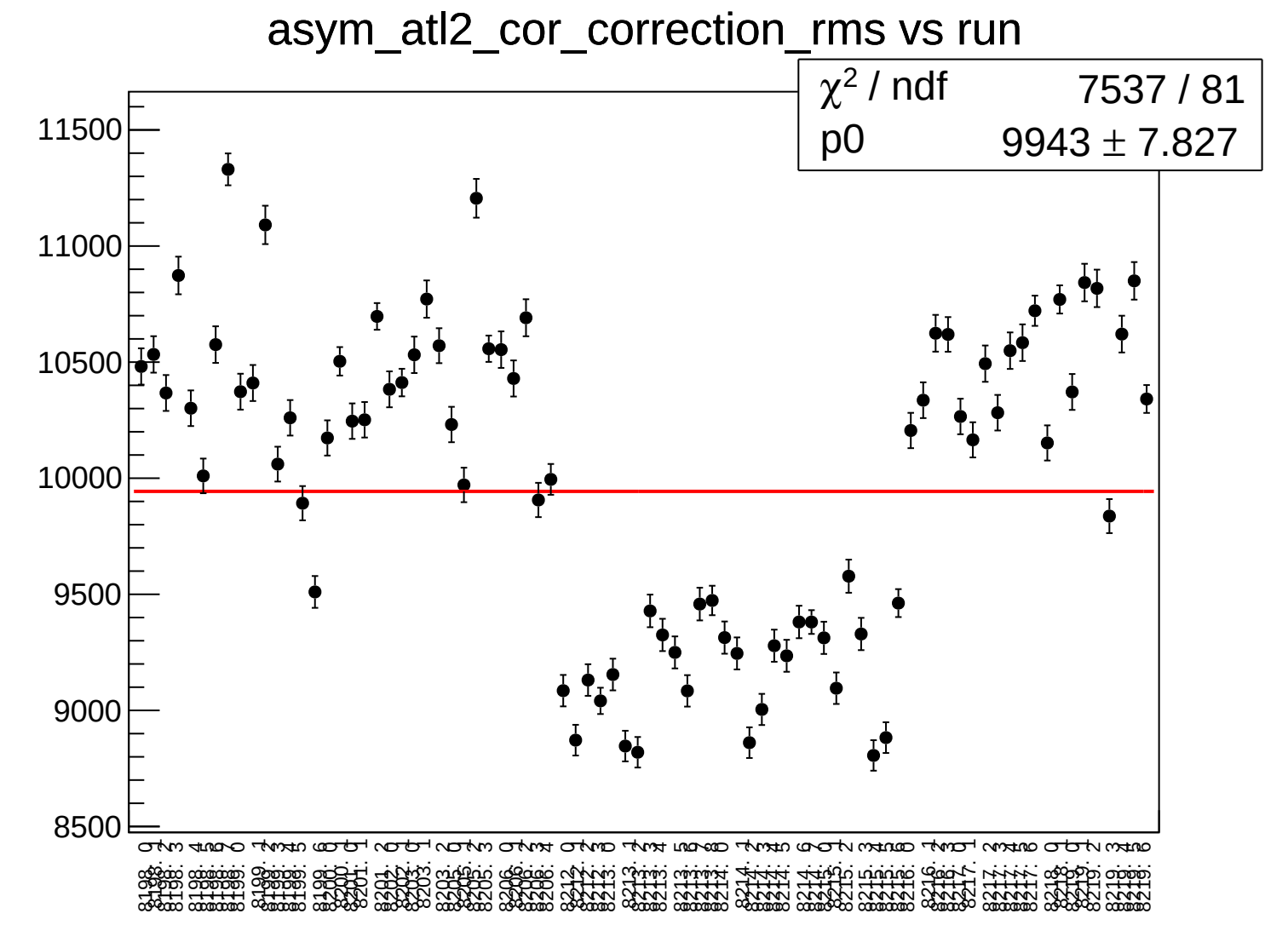

cor_asym_atl2_mean vs run
χ² / ndf 78.05 / 81
p0 166.5 ± 2443
×10³
pull
Entries 82
Mean −88.22
Std Dev 0

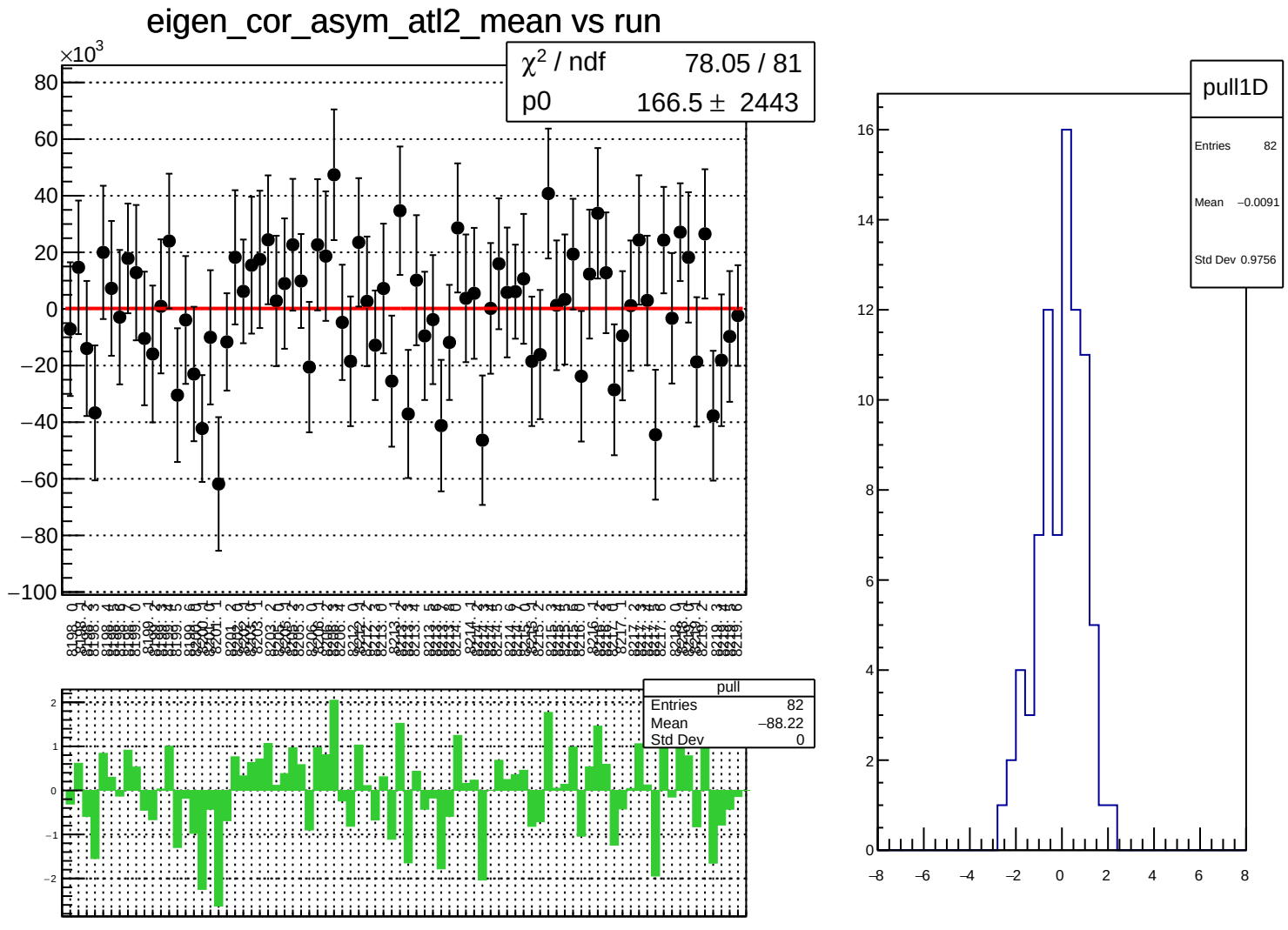

pull1D
Entries 82
Mean −0.0091
Std Dev 0.9756

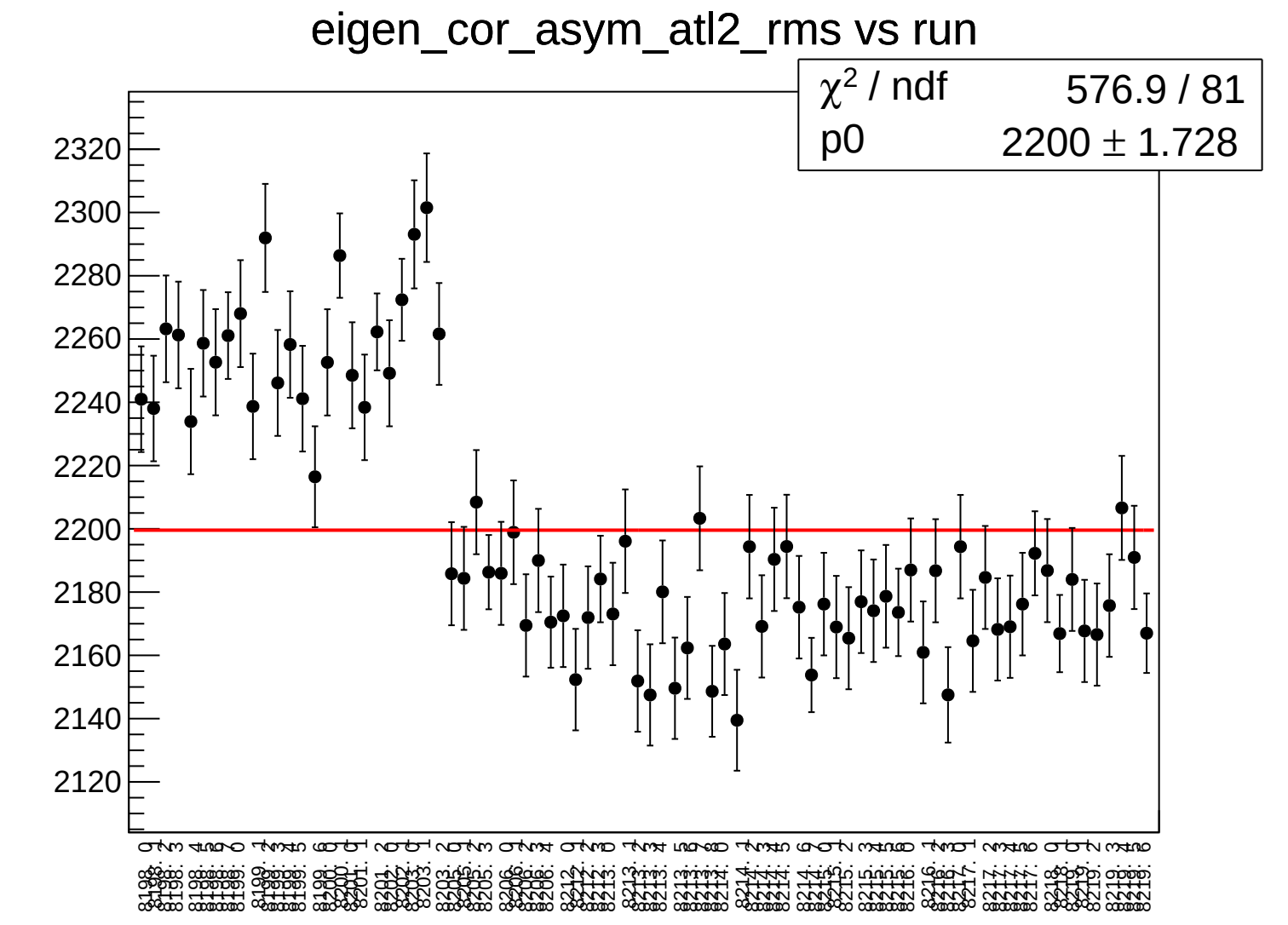

cor_asym_atl2_rms vs run
$\chi^2$ / ndf 576.9 / 81
p0 2200 ± 1.728
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

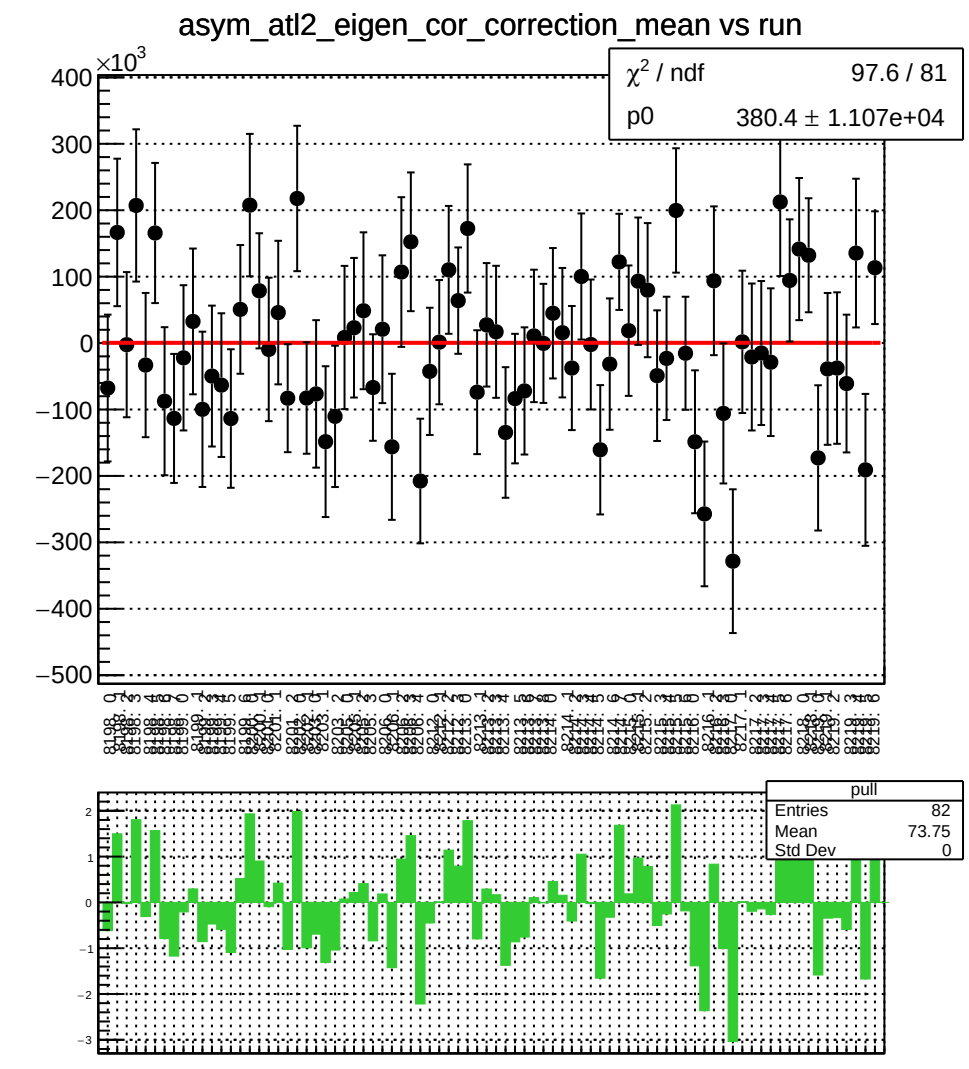

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 97.6 / 81
p0 380.4 ± 1.107e+04
pull
Entries 82
Mean 73.75
Std Dev 0

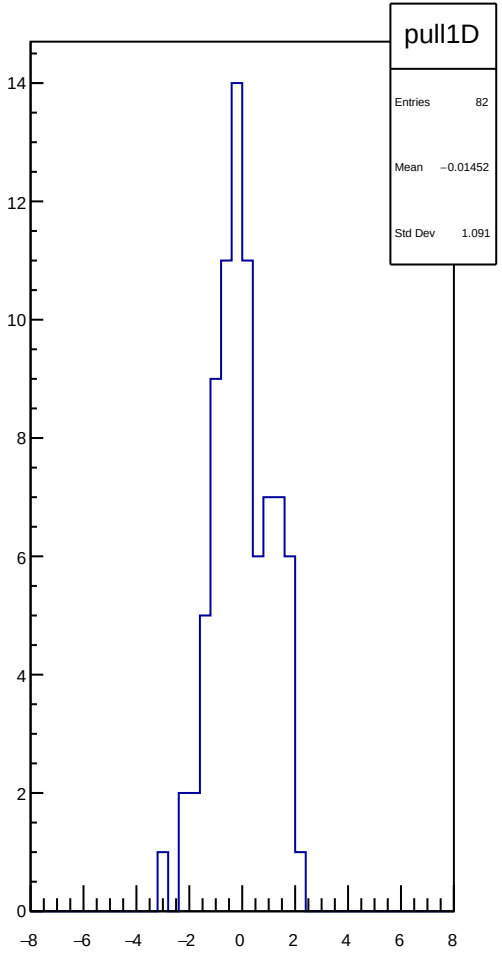

pull1D
Entries 82
Mean −0.01452
Std Dev 1.091

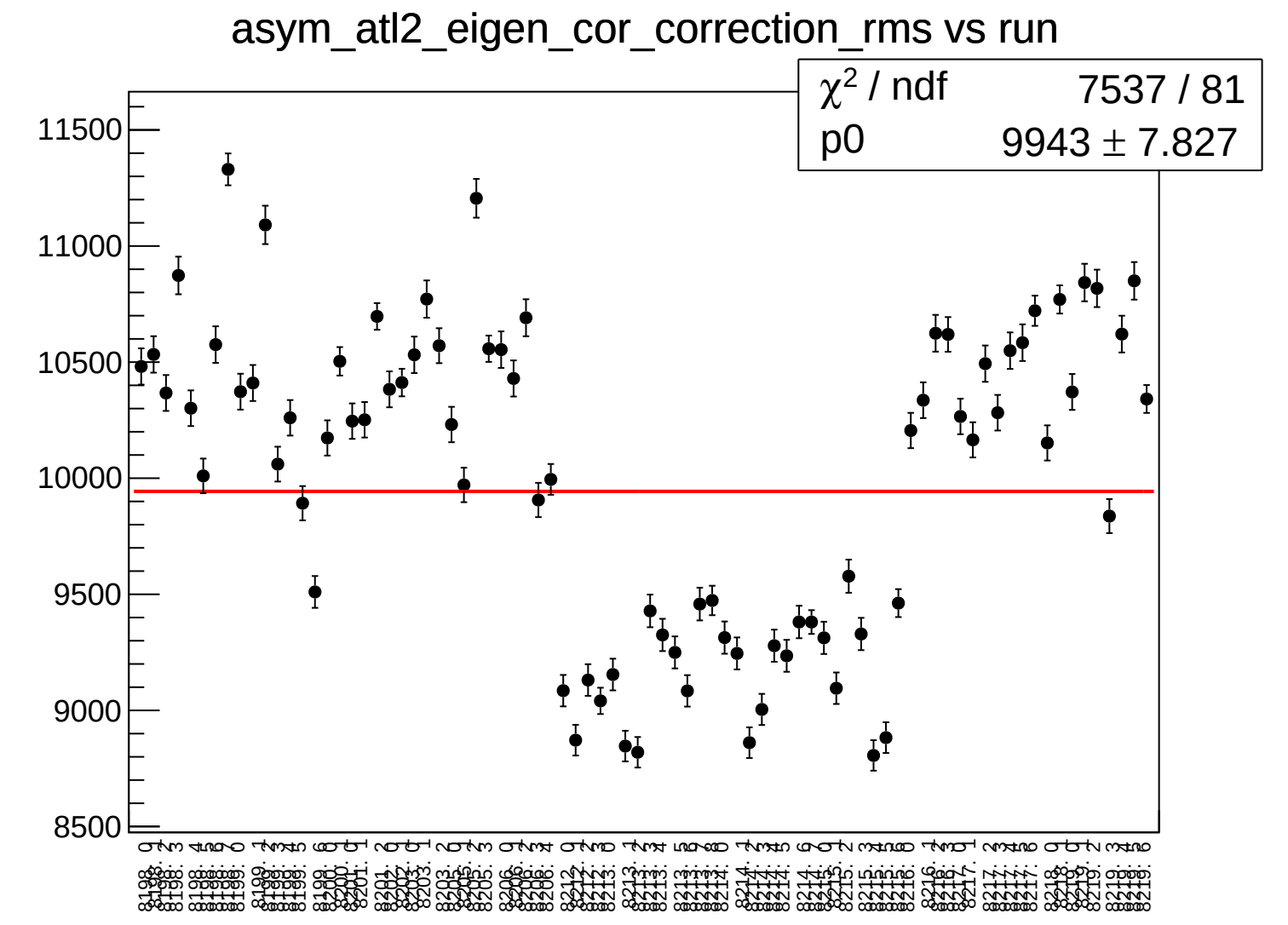

asym_atl2_cor_correction_rms vs run
χ² / ndf 7537 / 81
p0 9943 ± 7.827
11500
11000
10500
10000
9500
9000
8500

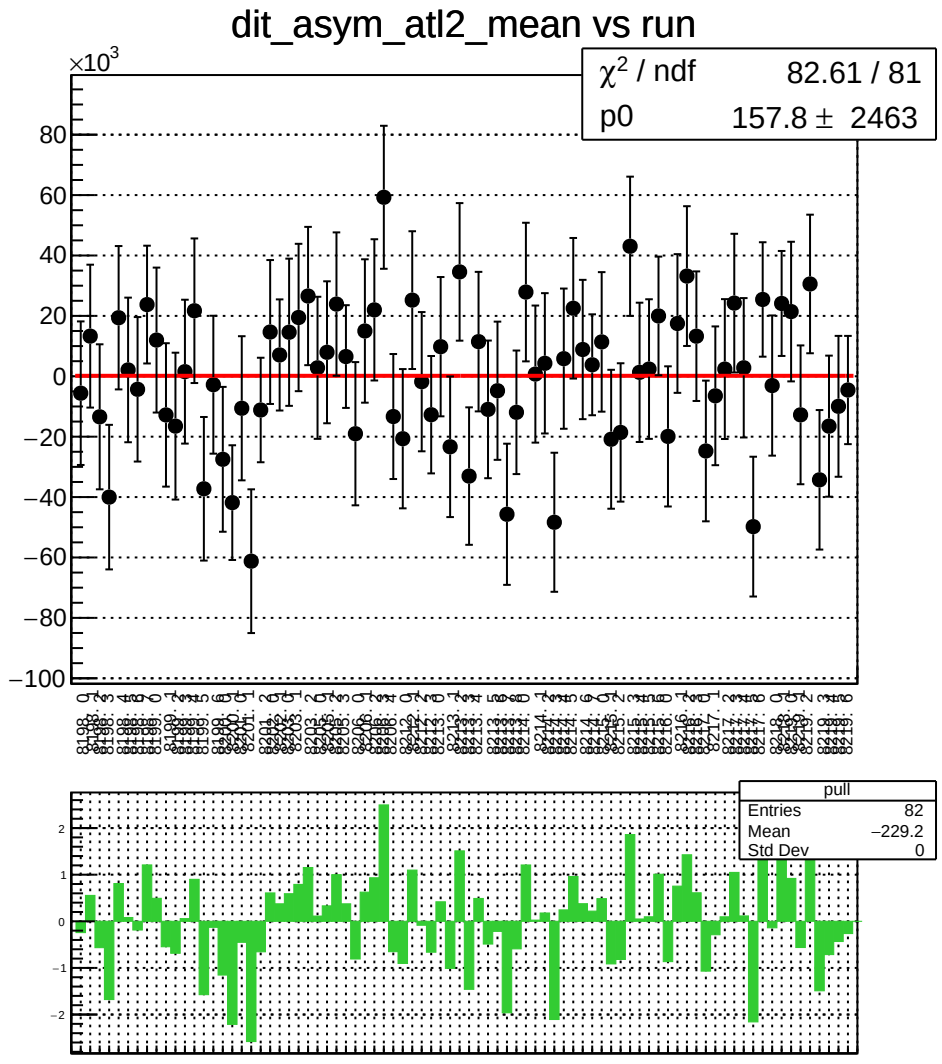

eigen_cor_asym_atl2_mean vs run
χ² / ndf 78.05 / 81
p0 166.5 ± 2443
×10³
pull
Entries 82
Mean −88.22
Std Dev 0
pull1D
Entries 82
Mean −0.0091
Std Dev 0.9756

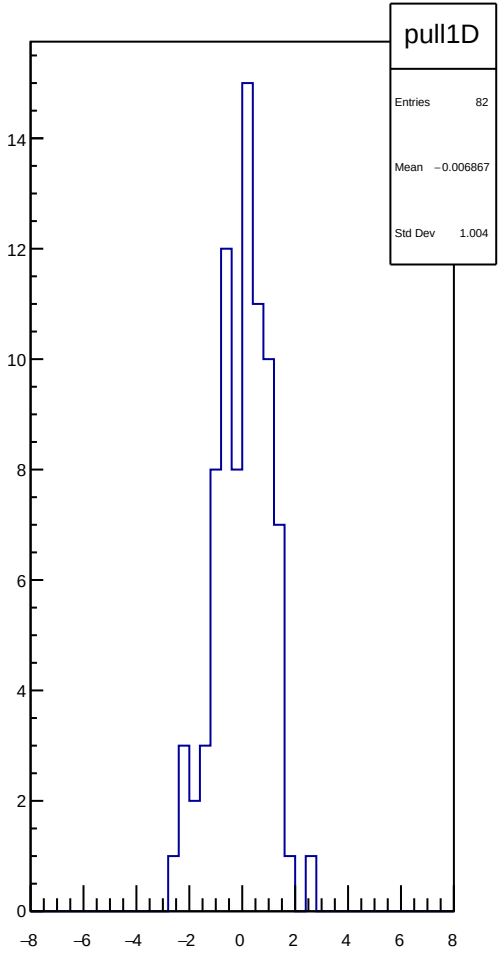

eigen_cor_asym_atl2_rms vs run
$\chi^2$ / ndf 576.9 / 81
p0 2200 ± 1.728
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

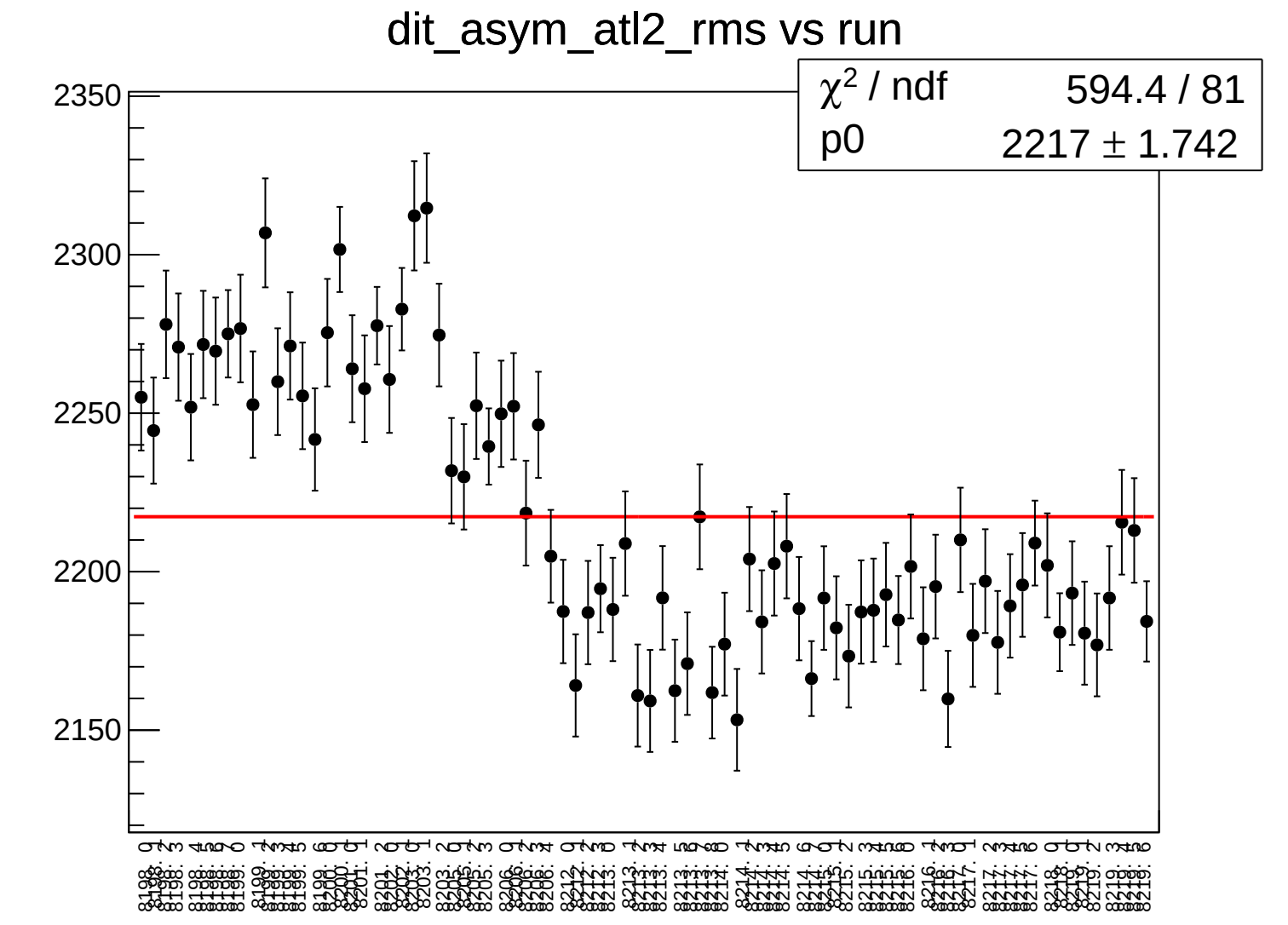

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.6 / 81
p0 380.4 ± 1.107e+04
pull
Entries 82
Mean 73.75
Std Dev 0

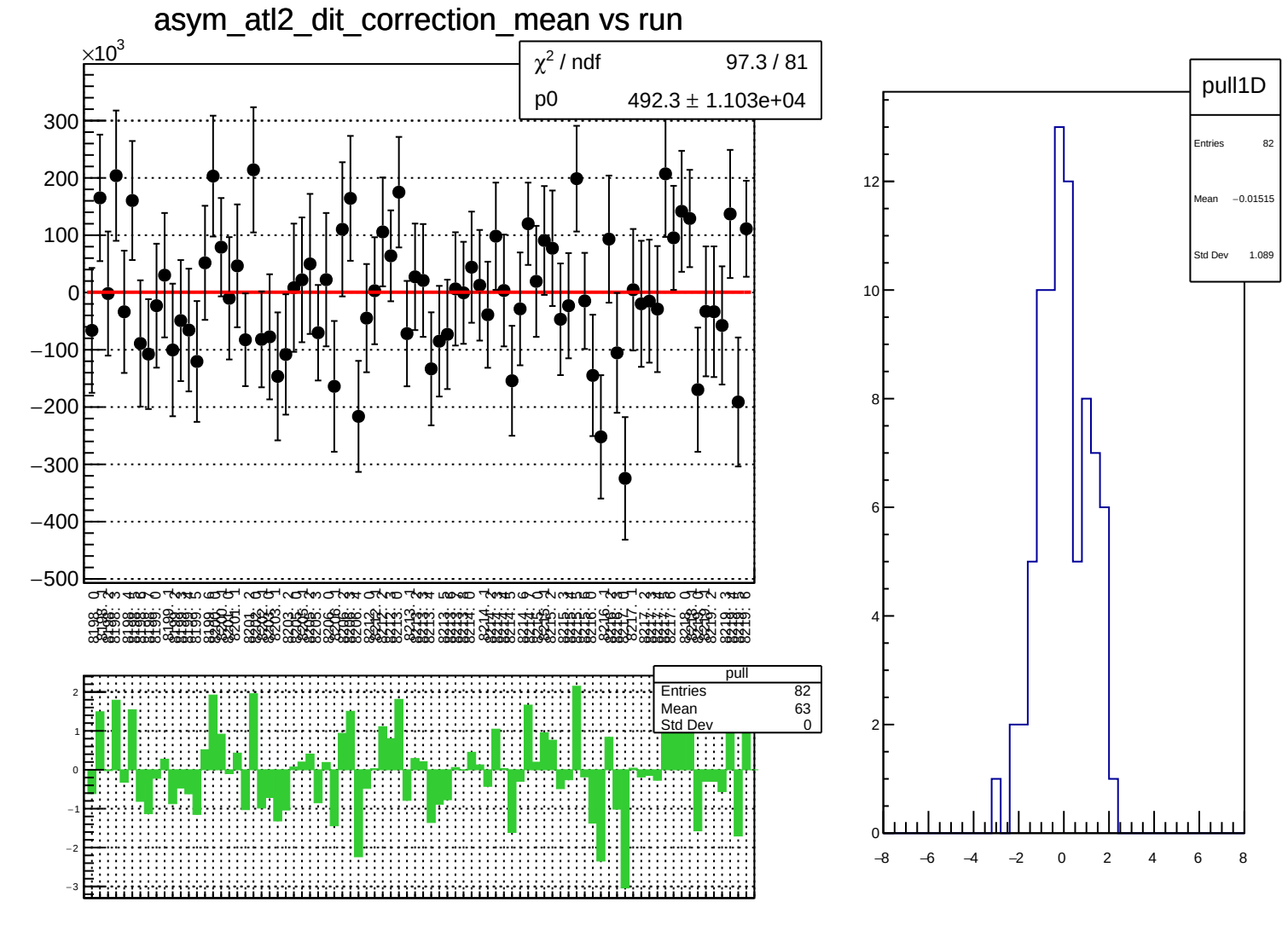

pull1D
Entries 82
Mean −0.01452
Std Dev 1.091

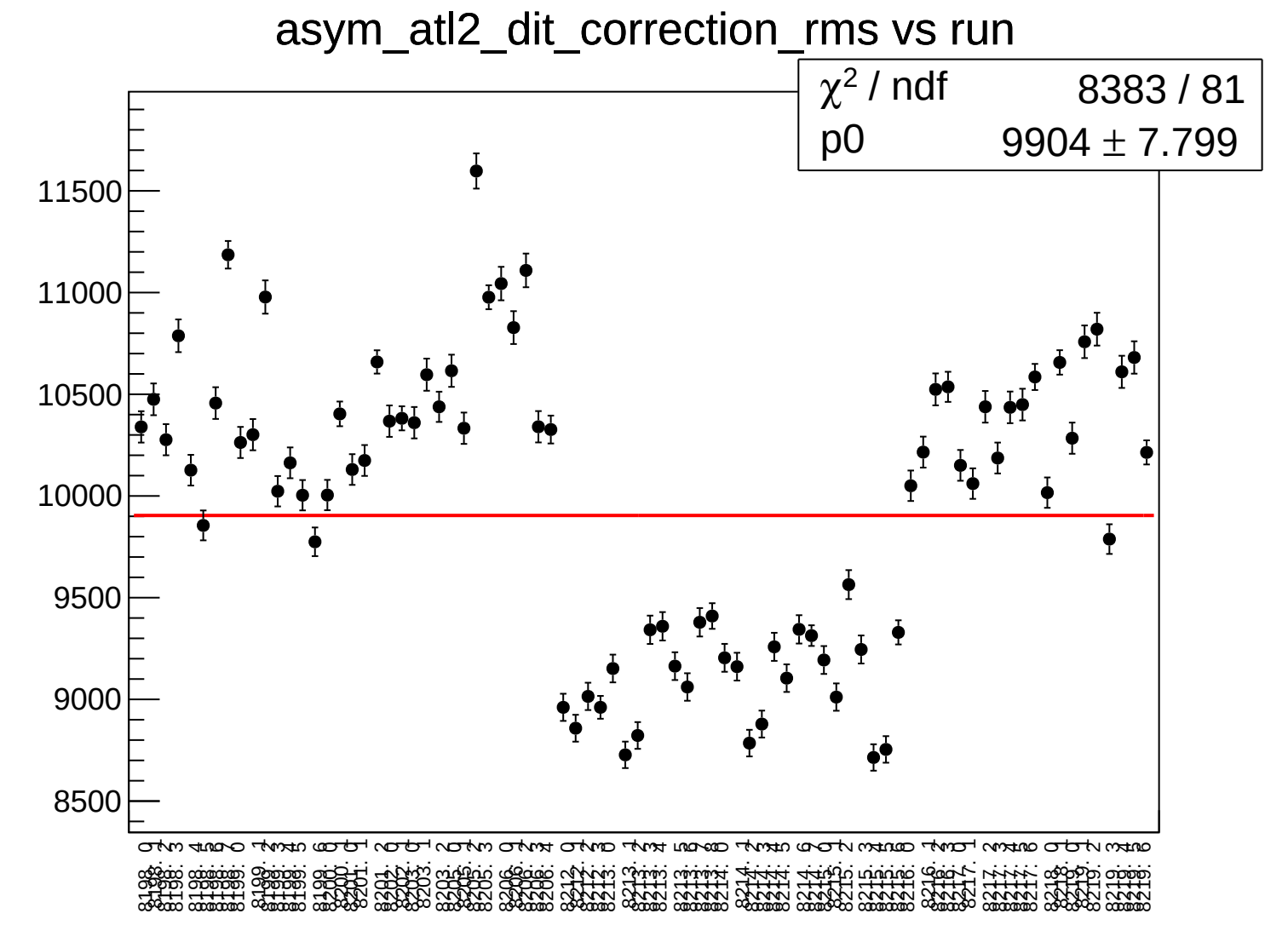

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 7537 / 81
p0 9943 ± 7.827
11500
11000
10500
10000
9500
9000
8500

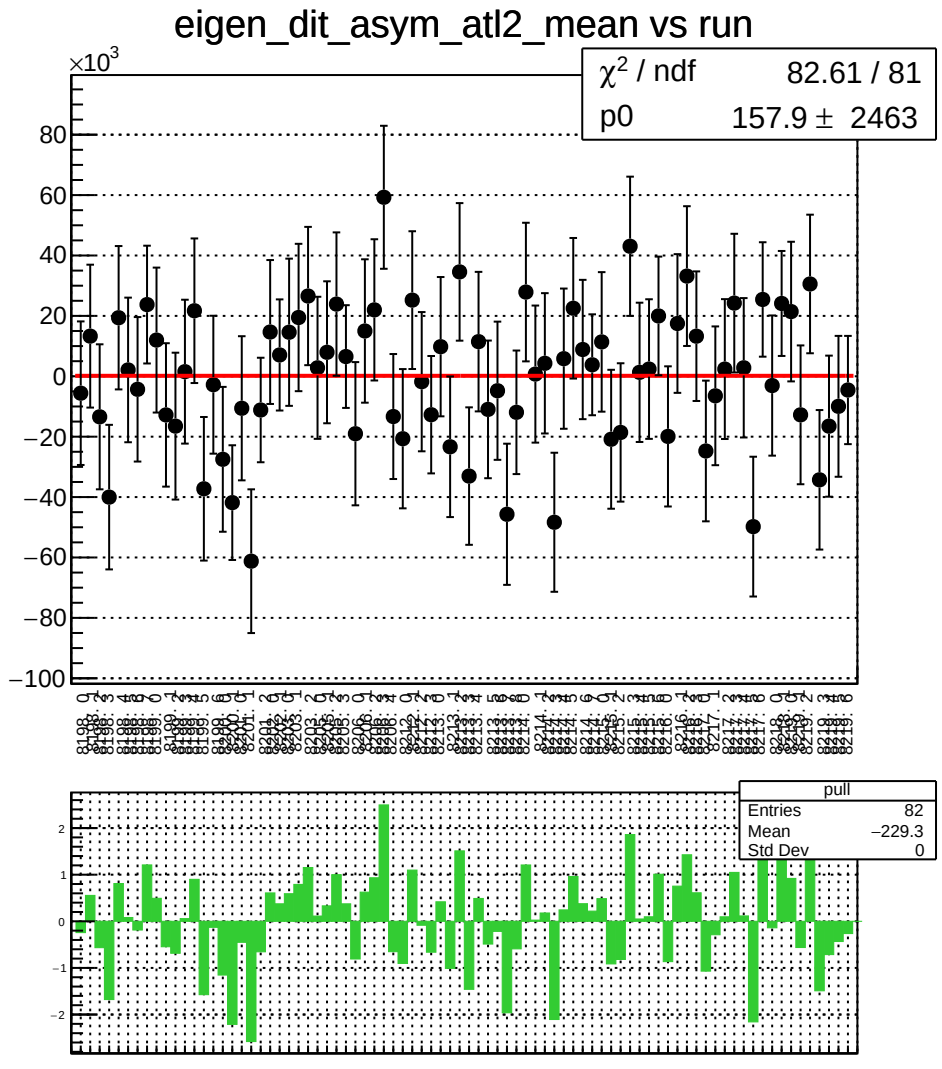

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 82.61 / 81
p0 157.8 ± 2463
pull
Entries 82
Mean −229.2
Std Dev 0

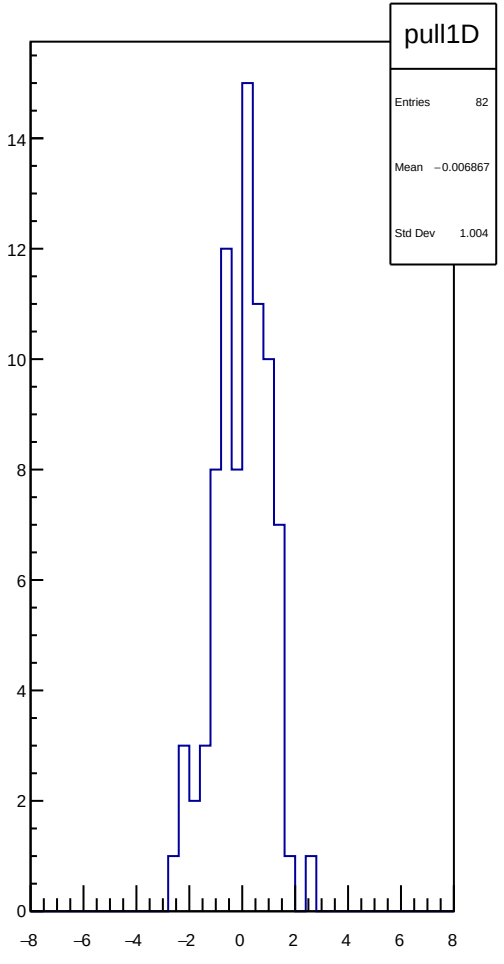

pull1D
Entries 82
Mean −0.006867
Std Dev 1.004

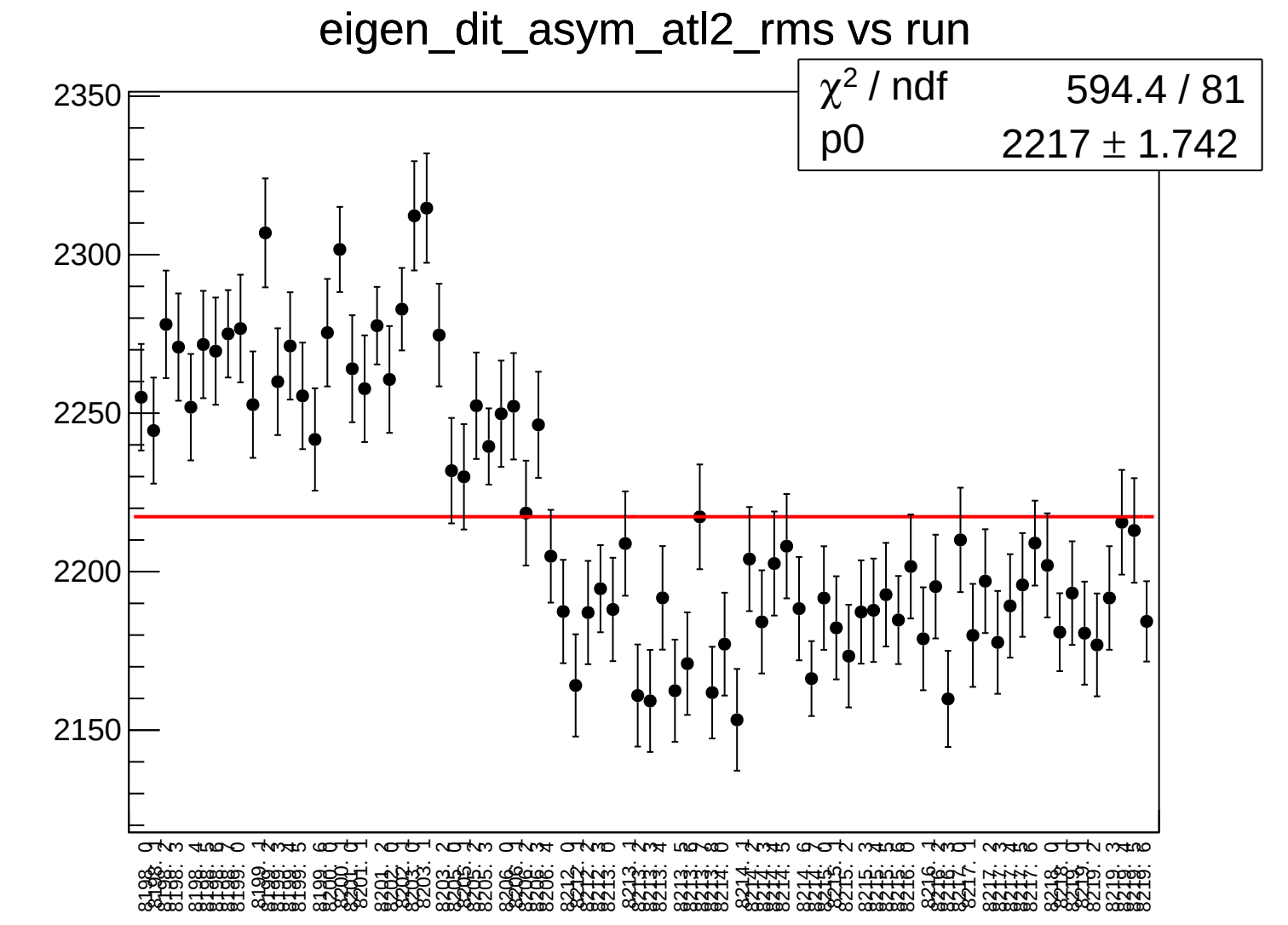

dit_asym_atl2_rms vs run
χ² / ndf 594.4 / 81
p0 2217 ± 1.742
2350
2300
2250
2200
2150

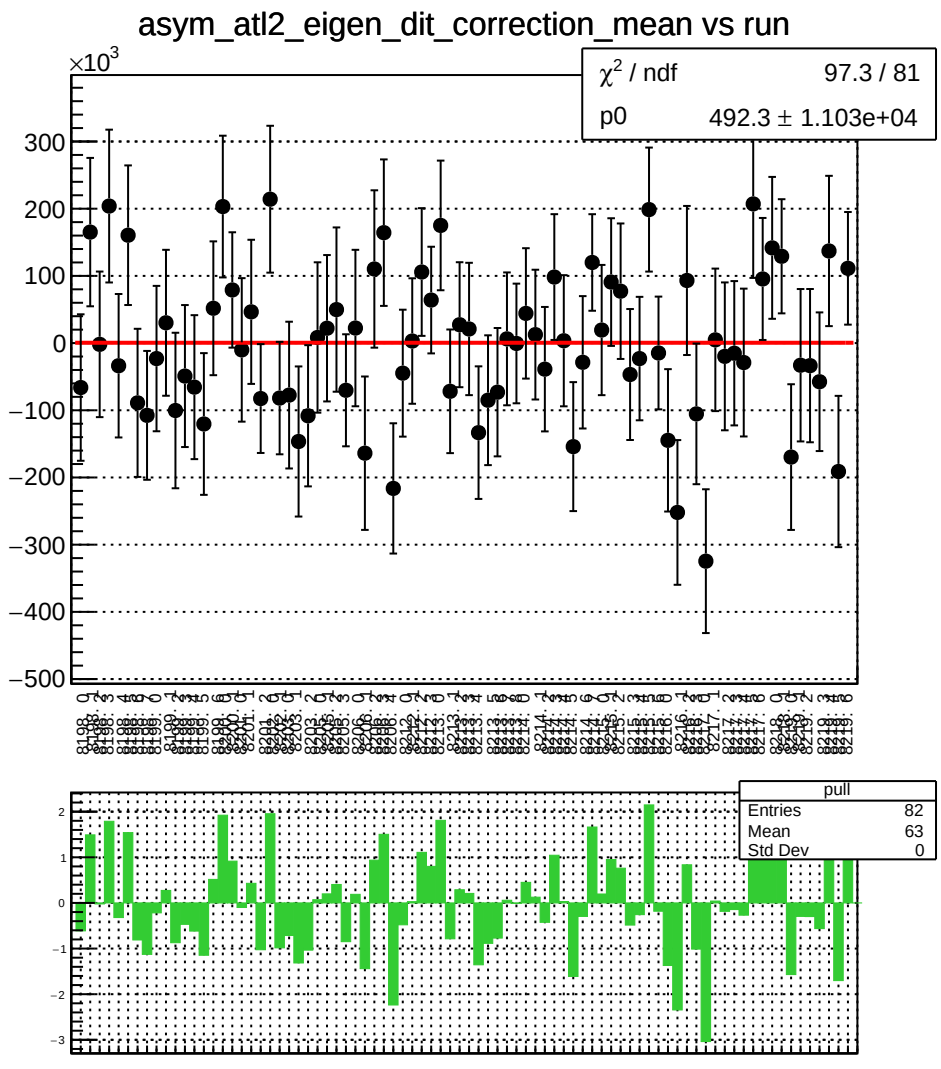

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 97.3 / 81
p0 492.3 ± 1.103e+04
pull
Entries 82
Mean 63
Std Dev 0
pull1D
Entries 82
Mean −0.01515
Std Dev 1.089

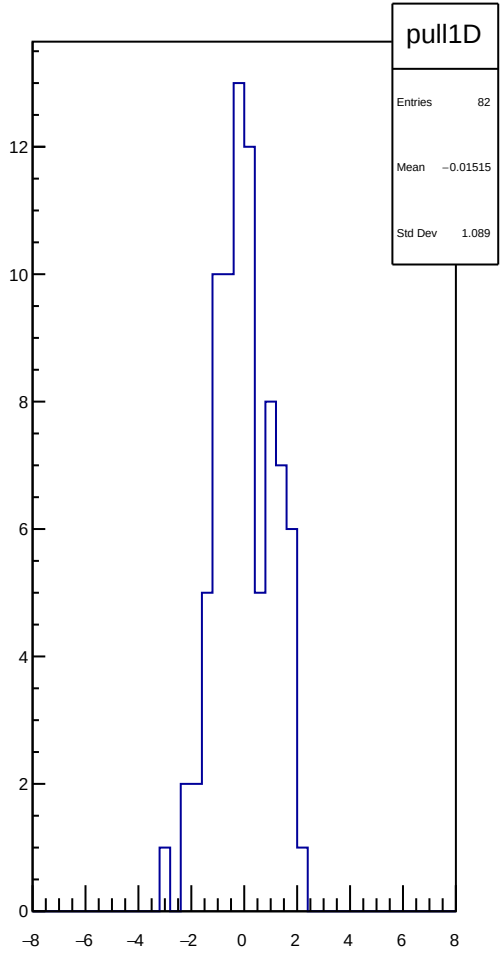

asym_atl2_dit_correction_rms vs run
χ² / ndf 8383 / 81
p0 9904 ± 7.799
11500
11000
10500
10000
9500
9000
8500

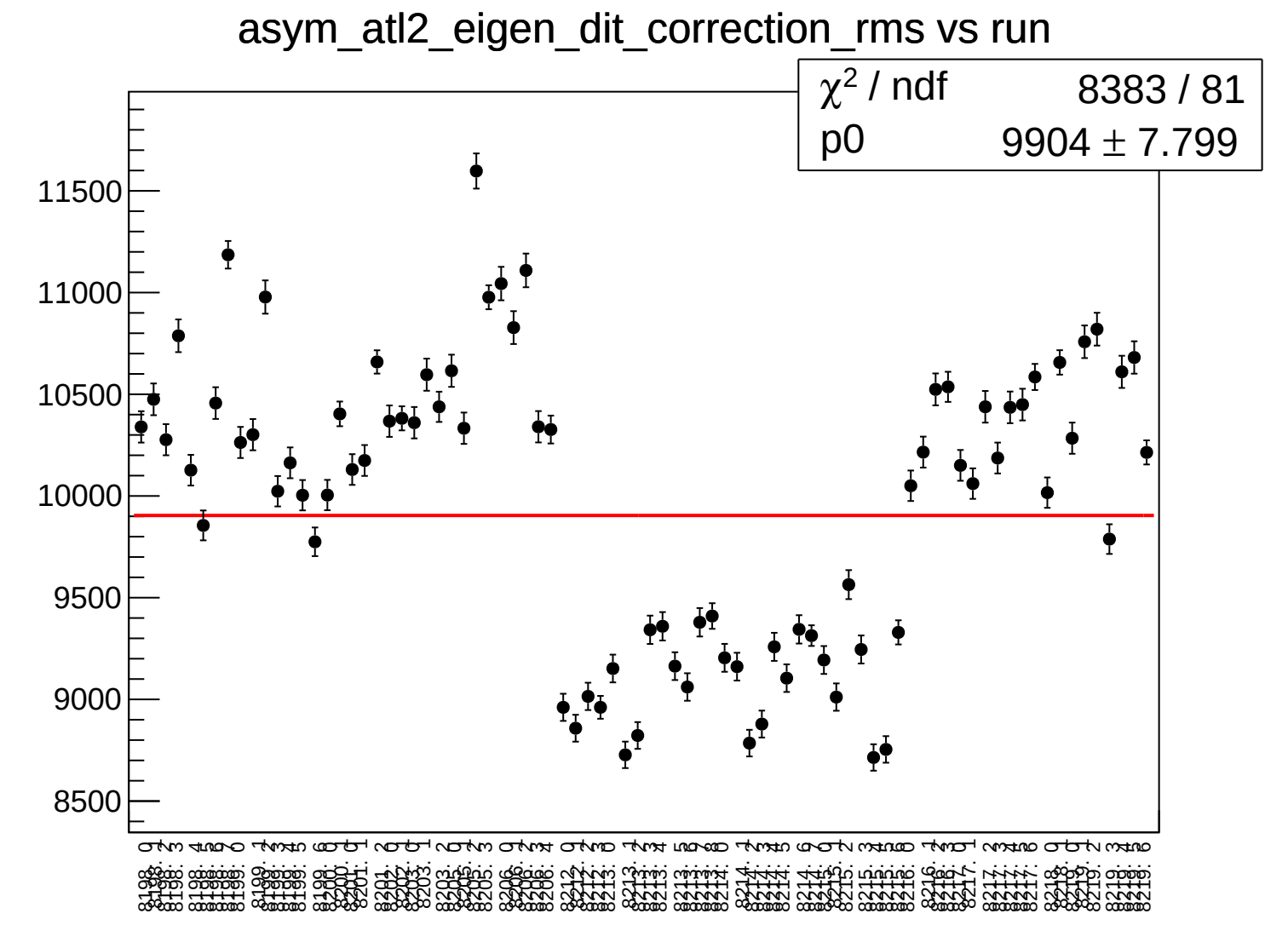

eigen_dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 82.61 / 81
p0 157.9 ± 2463
pull
Entries 82
Mean −229.3
Std Dev 0

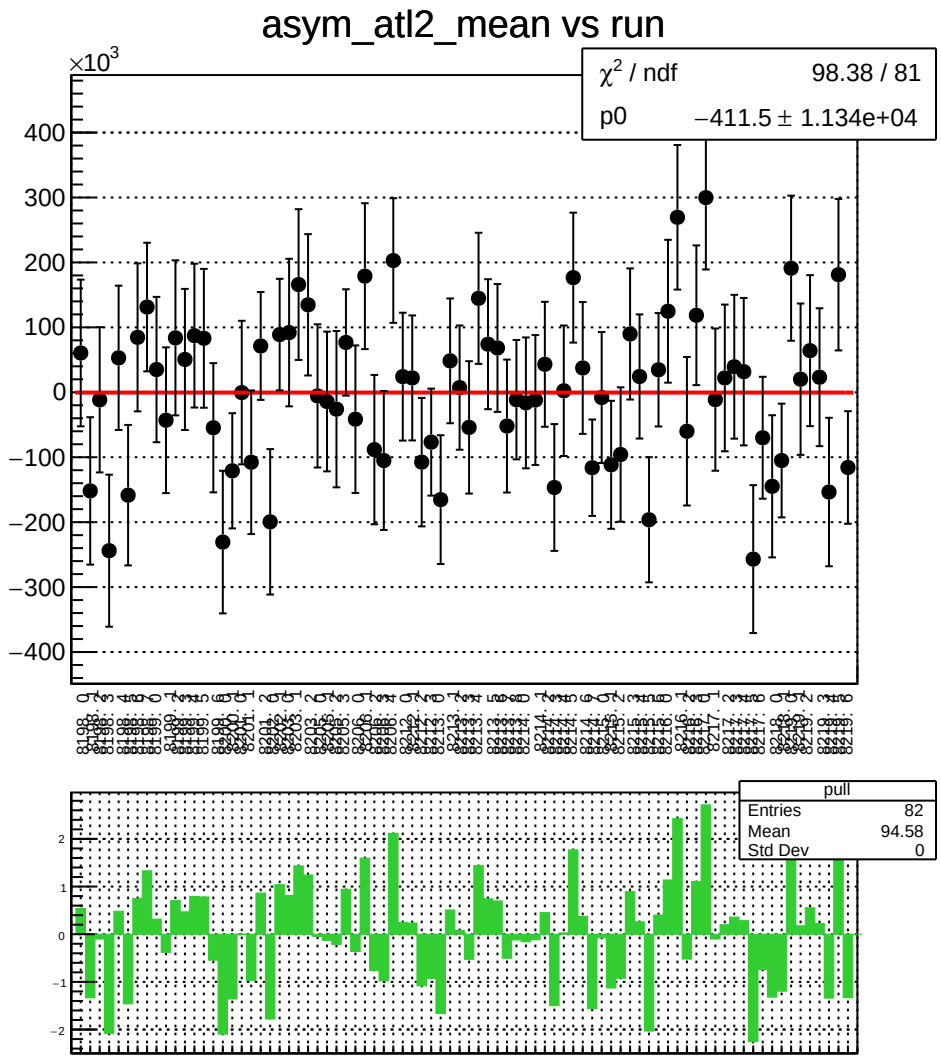

pull1D
Entries 82
Mean −0.006867
Std Dev 1.004

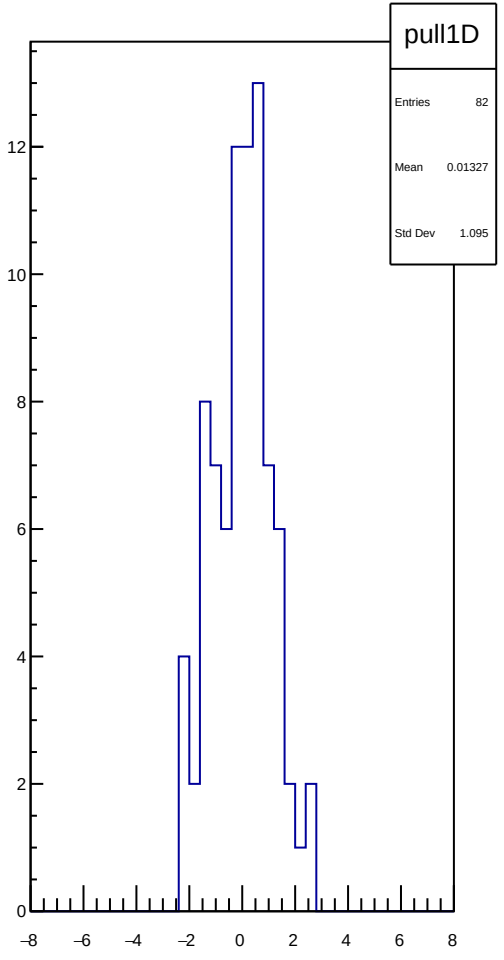

eigen_dit_asym_atl2_rms vs run
χ² / ndf 594.4 / 81
p0 2217 ± 1.742
2350
2300
2250
2200
2150

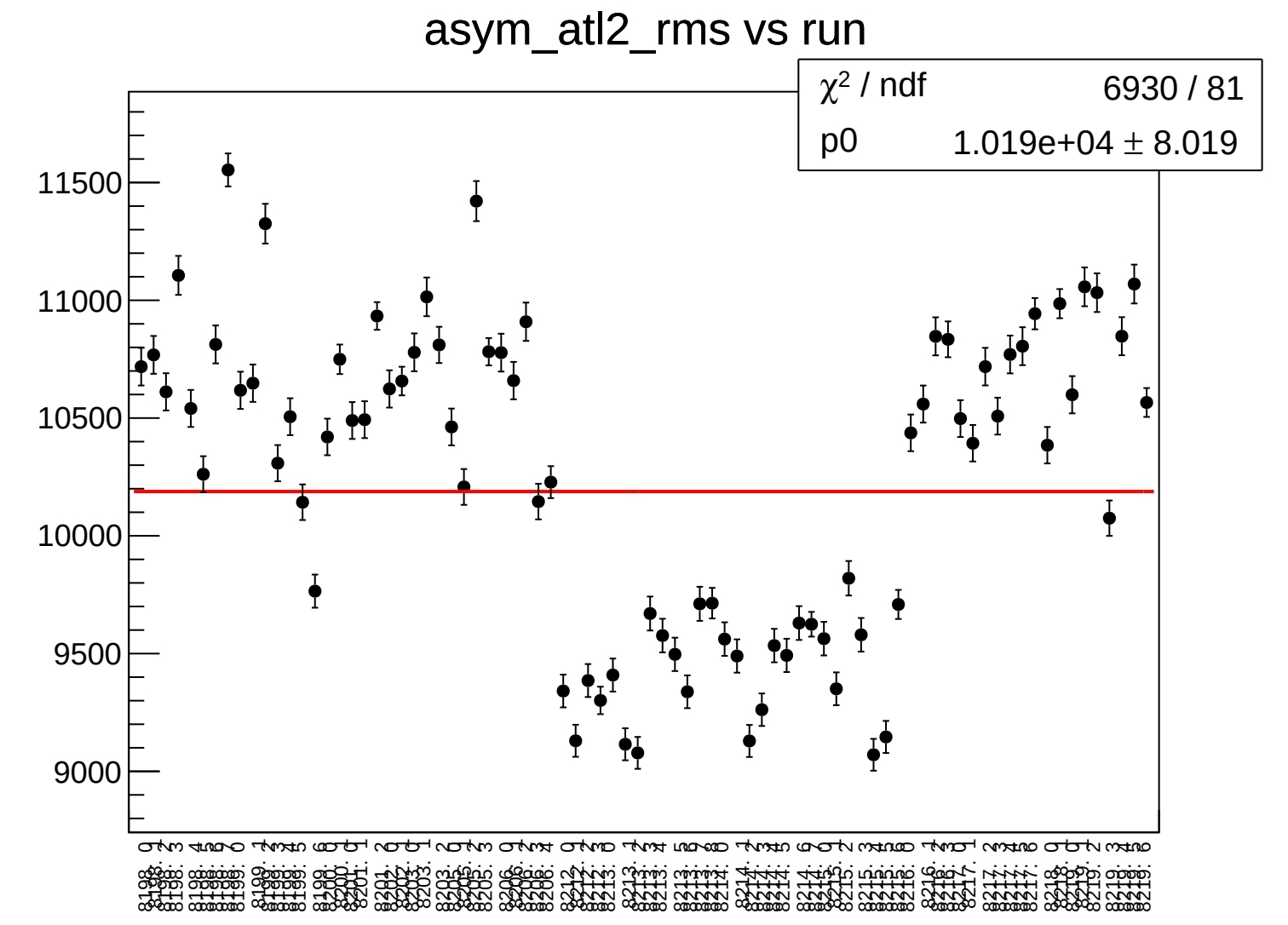

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.3 / 81
p0 492.3 ± 1.103e+04
300
200
100
0
−100
−200
−300
−400
−500
pull
Entries 82
Mean 63
Std Dev 0
2
1
0
−1
−2
−3

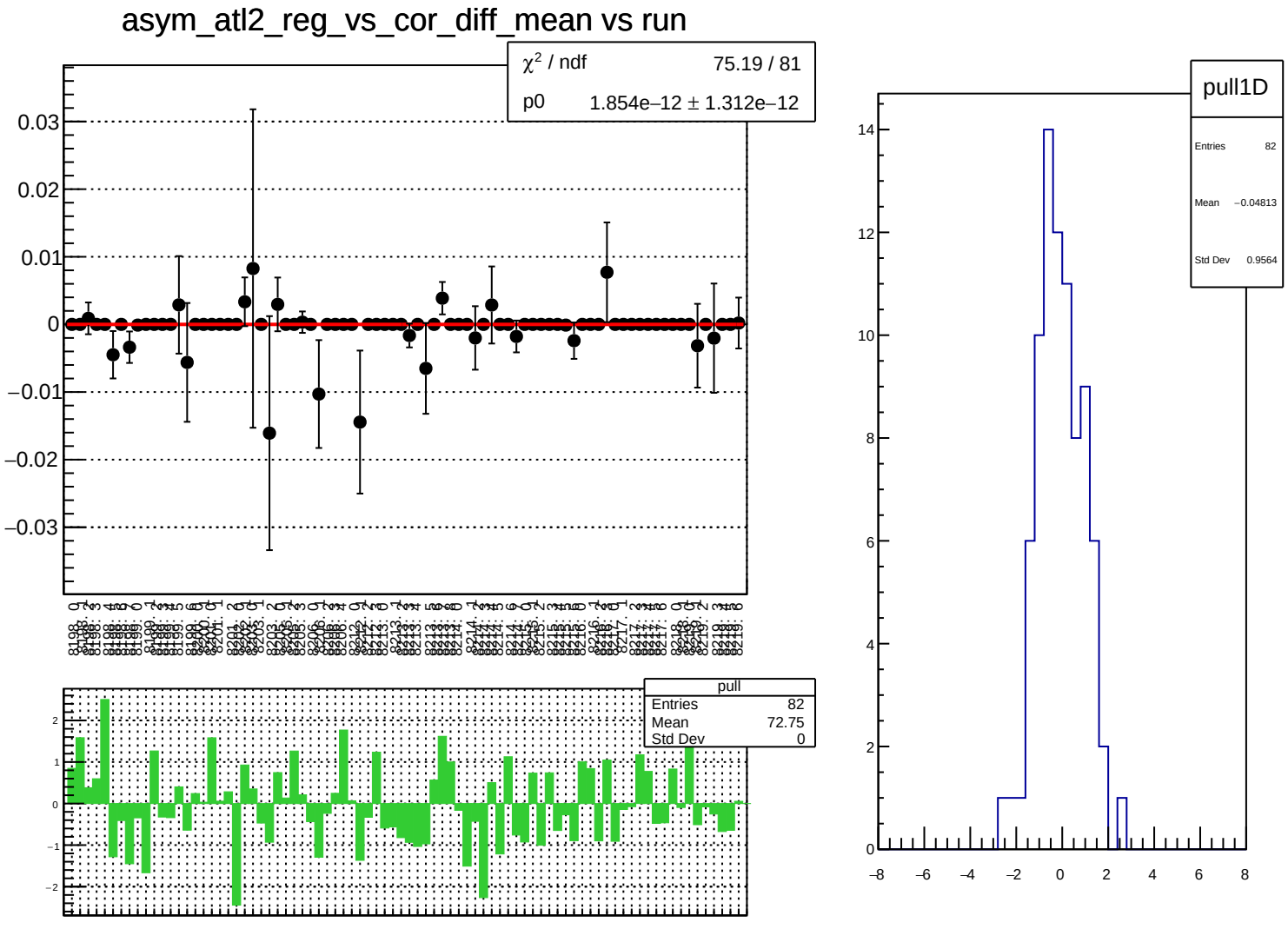

pull1D
Entries 82
Mean −0.01515
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

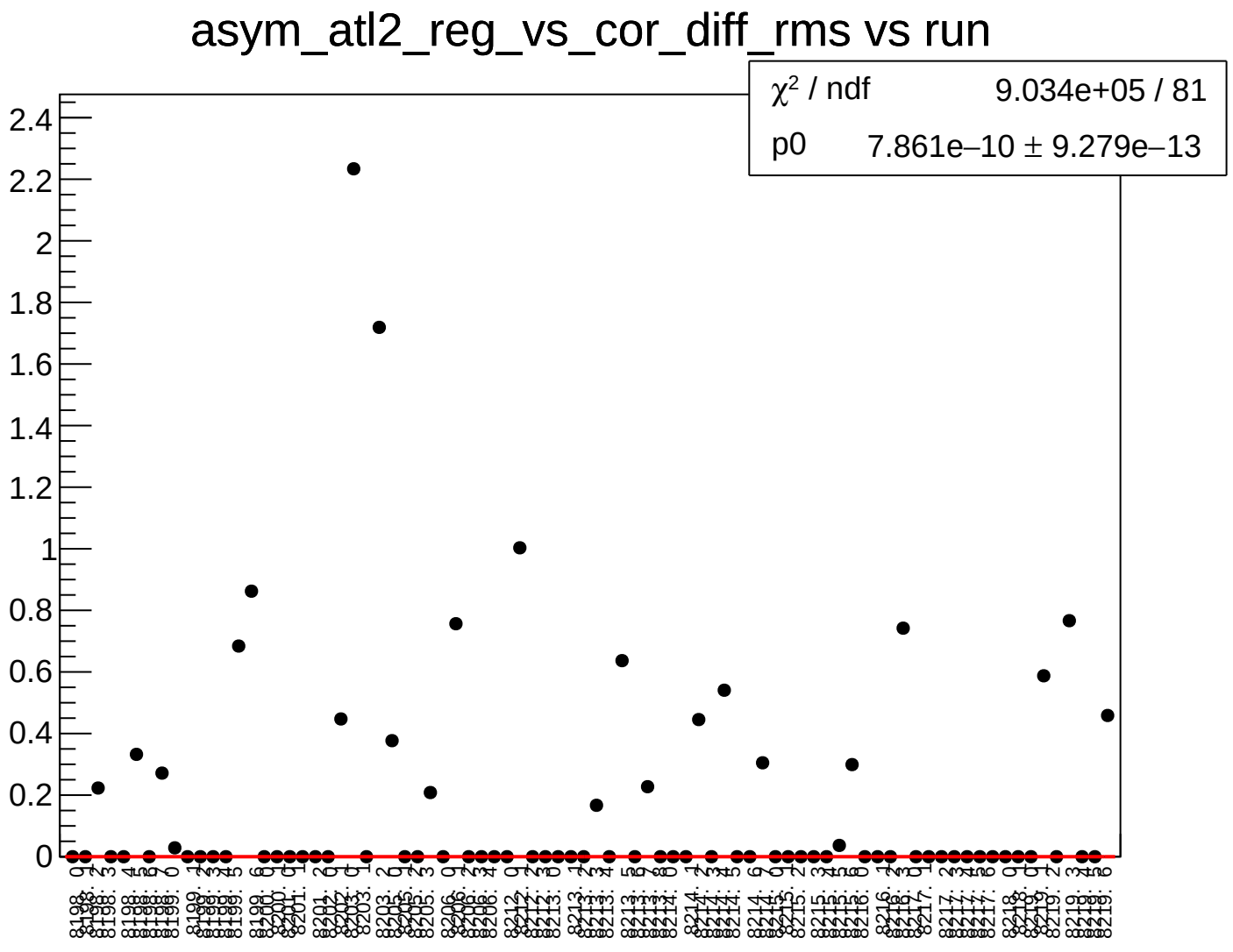

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 8383 / 81
p0 9904 ± 7.799
11500
11000
10500
10000
9500
9000
8500

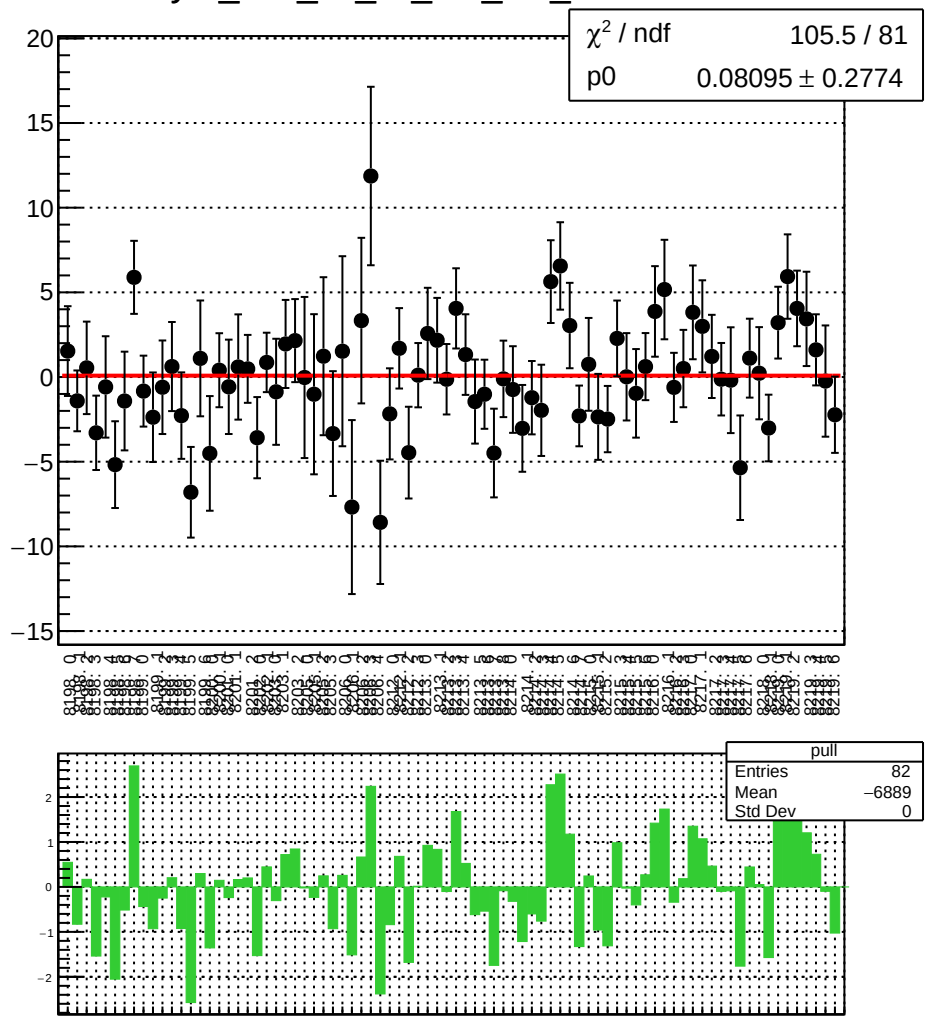

asym_atl2_mean vs run
×10^3
χ² / ndf 98.38 / 81
p0 −411.5 ± 1.134e+04
pull
Entries 82
Mean 94.58
Std Dev 0

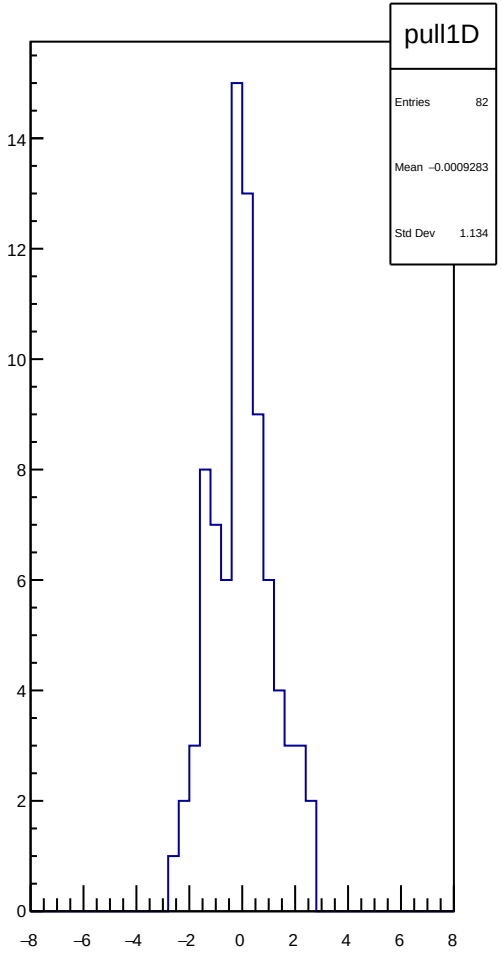

pull1D
Entries 82
Mean 0.01327
Std Dev 1.095

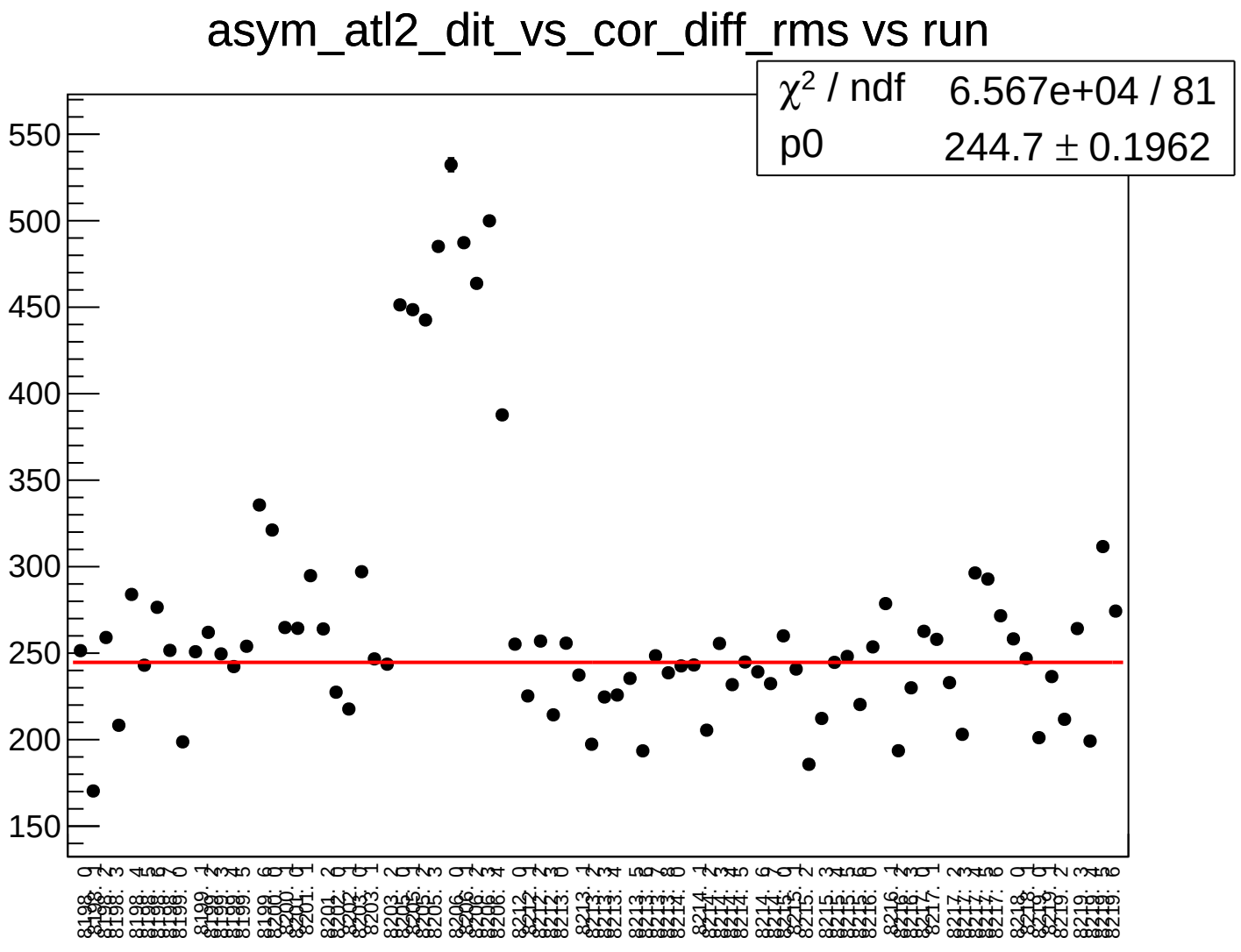

asym_atl2_rms vs run
χ² / ndf 6930 / 81
p0 1.019e+04 ± 8.019
11500
11000
10500
10000
9500
9000

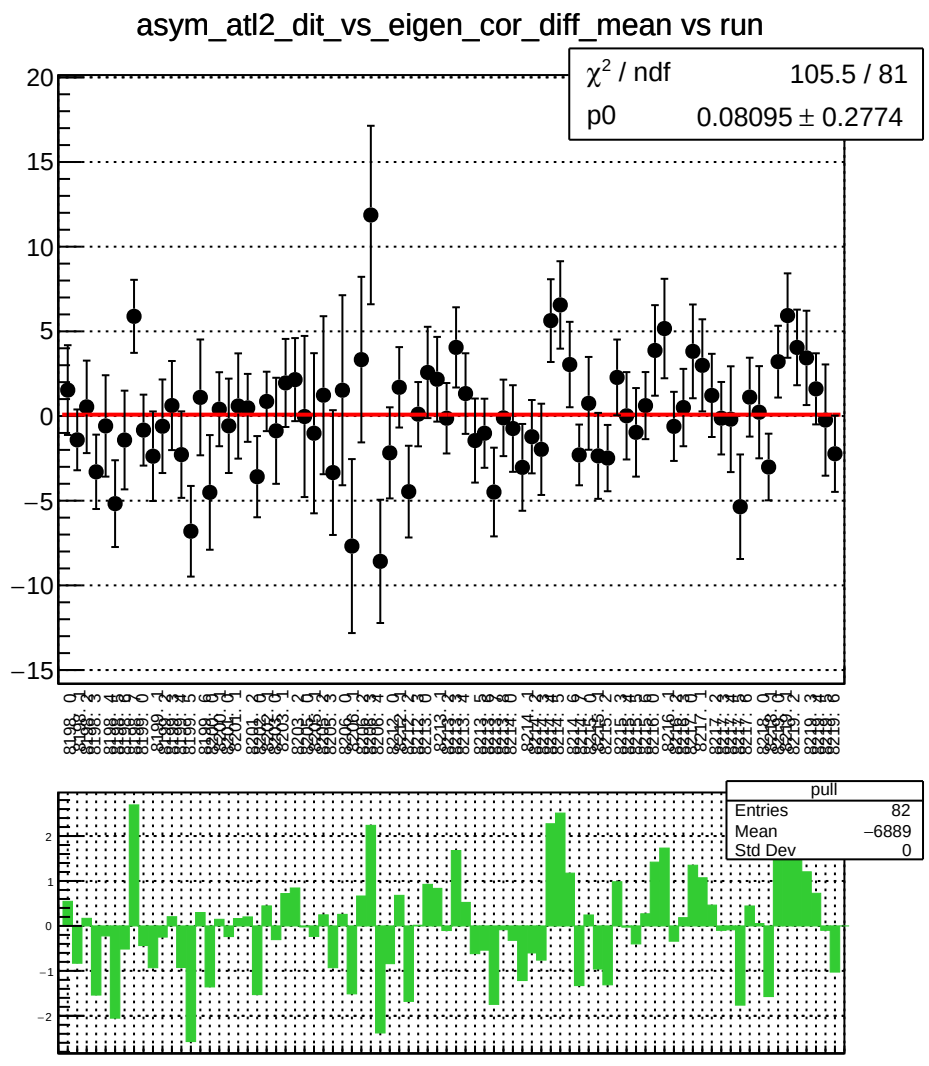

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 75.19 / 81
p0 1.854e−12 ± 1.312e−12
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 82
Mean 72.75
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.04813
Std Dev 0.9564
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

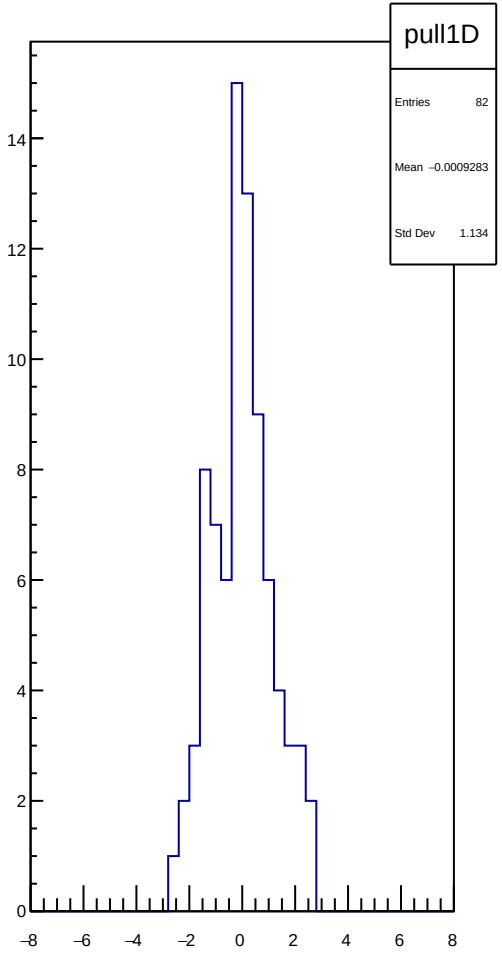

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.034e+05 / 81
p0 7.861e−10 ± 9.279e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

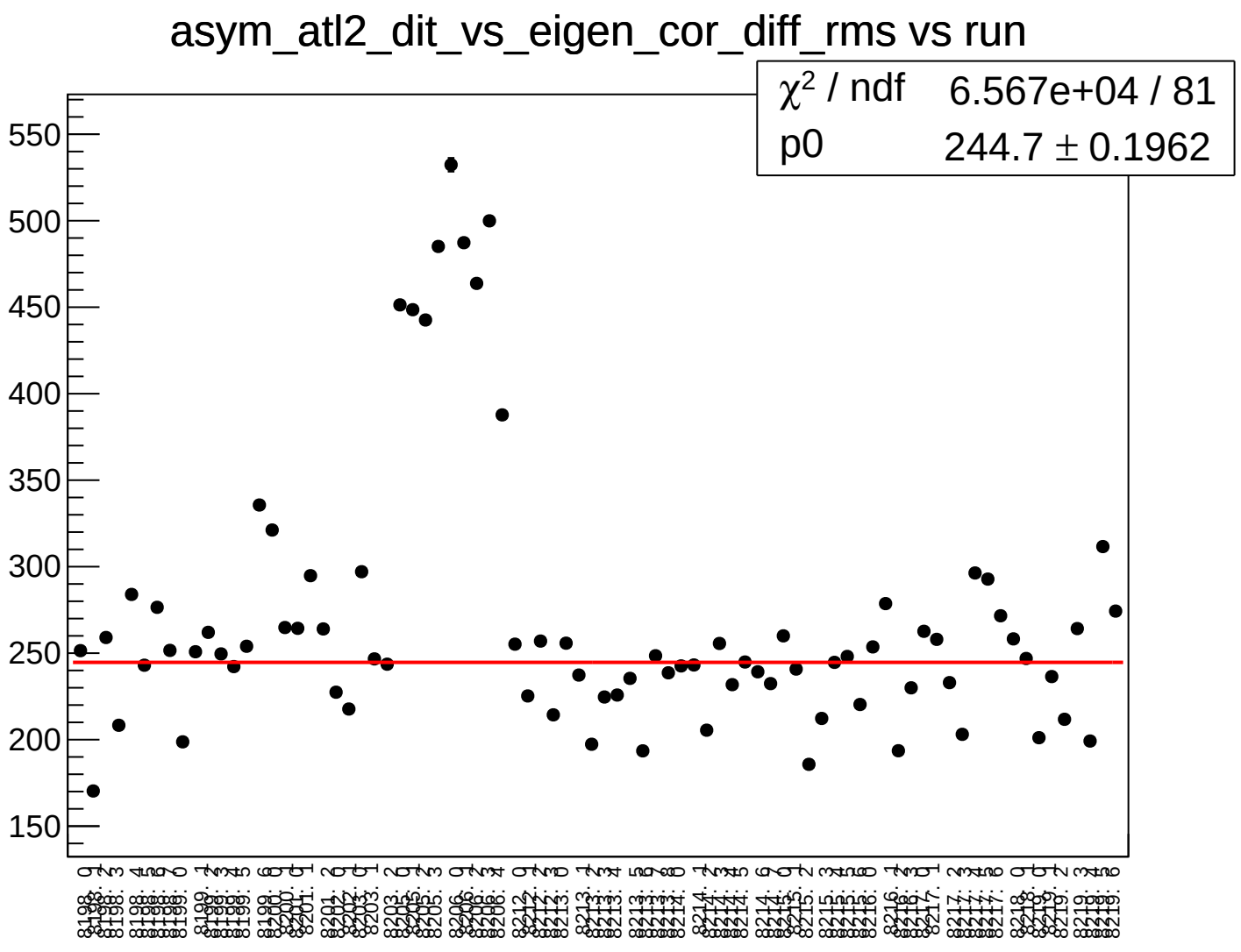

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 81
p0 0.08095 ± 0.2774
pull
Entries 82
Mean −6889
Std Dev 0

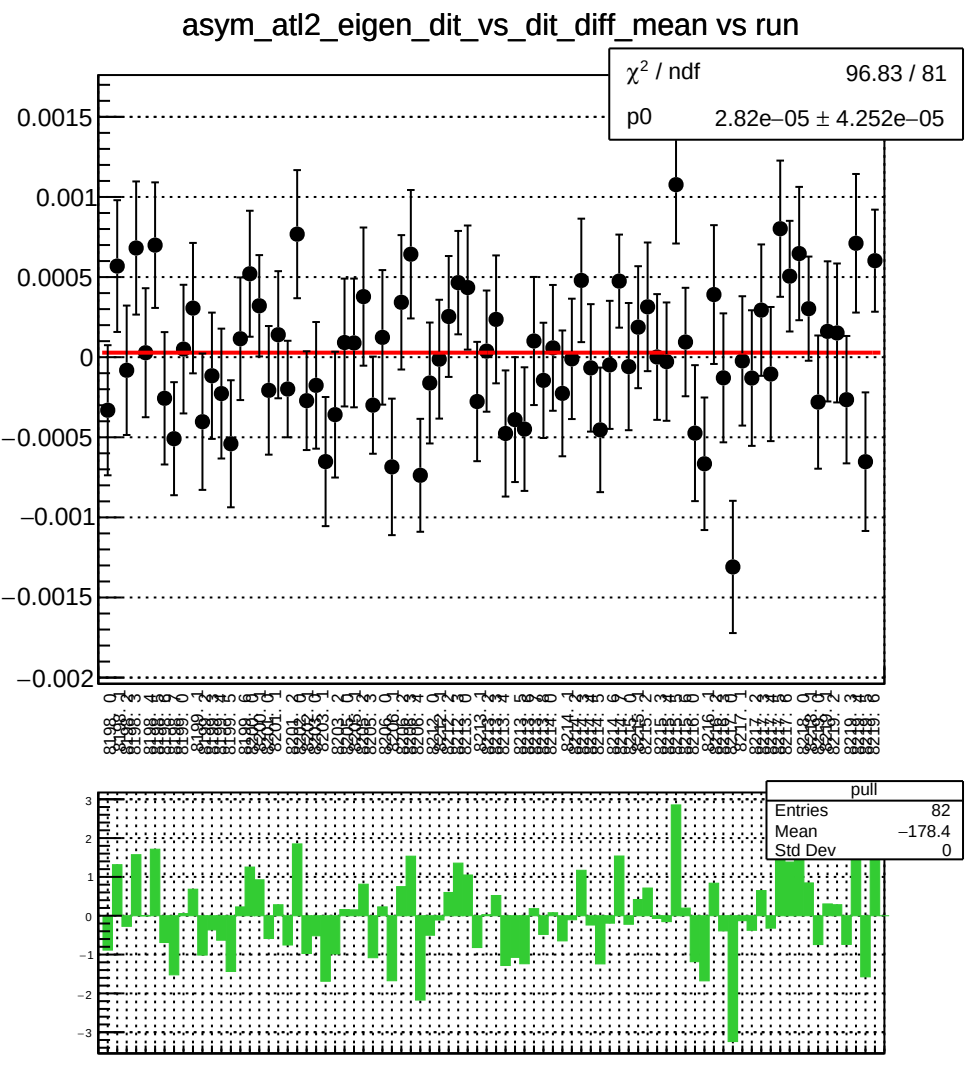

pull1D
Entries 82
Mean −0.0009283
Std Dev 1.134

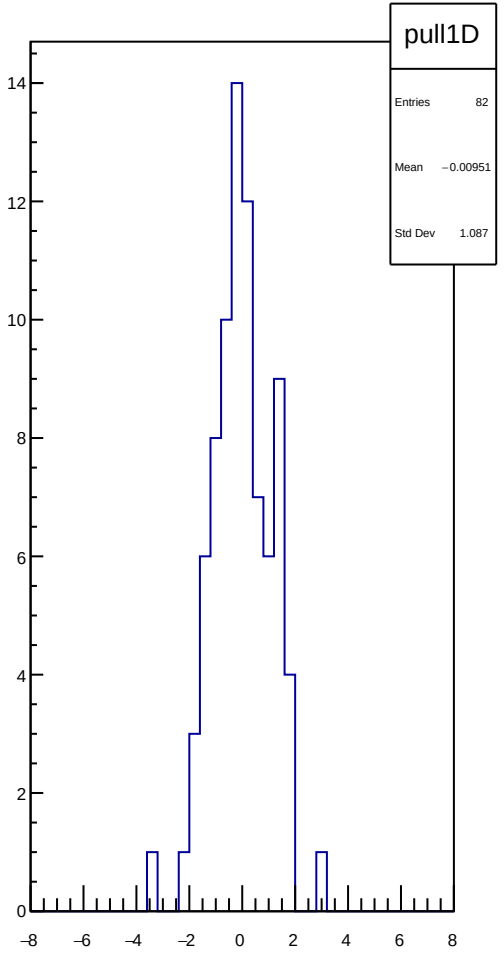

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.567e+04 / 81
p0 244.7 ± 0.1962
550
500
450
400
350
300
250
200
150

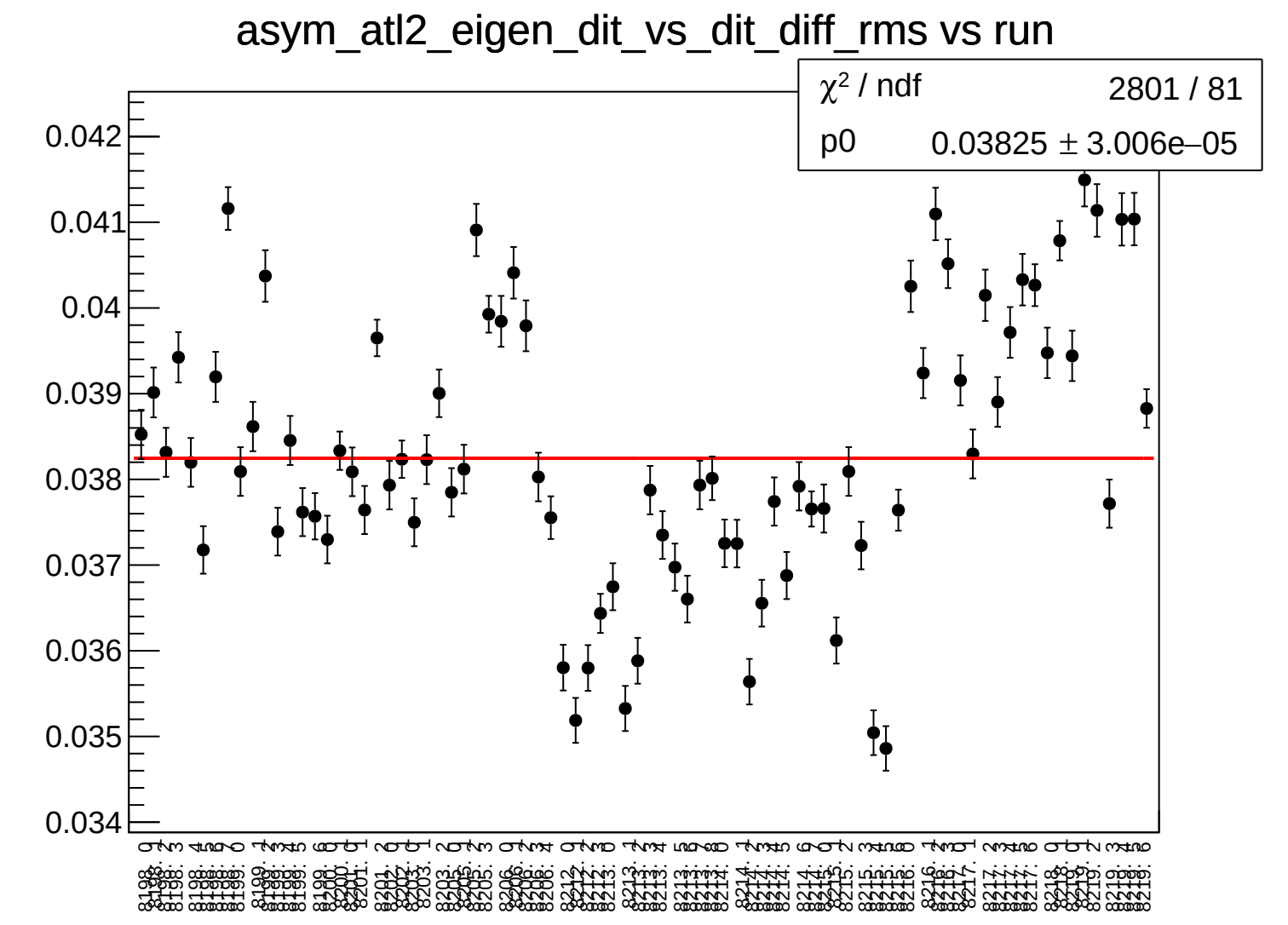

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 81
p0 0.08095 ± 0.2774
pull
Entries 82
Mean −6889
Std Dev 0

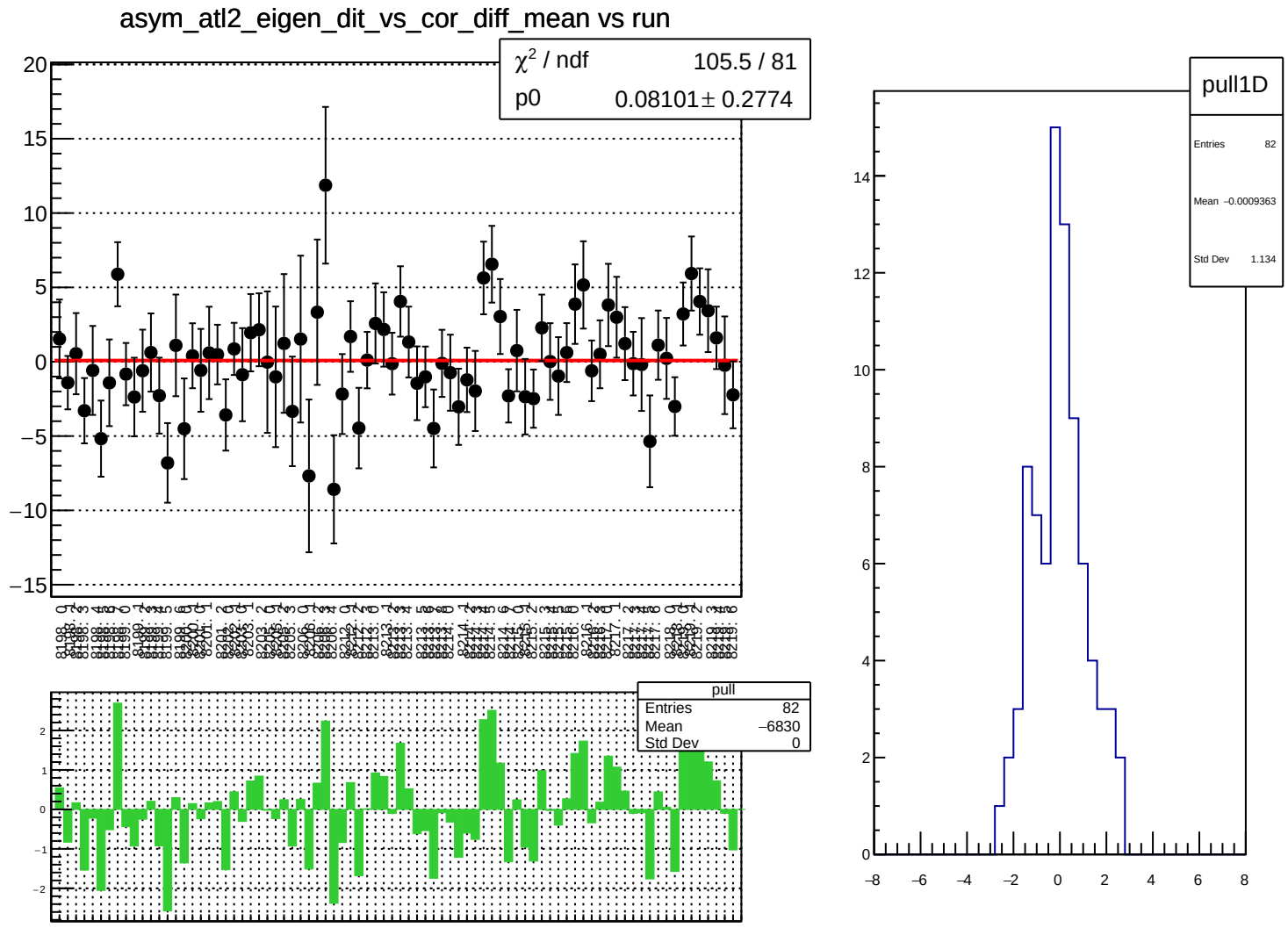

pull1D
Entries 82
Mean −0.0009283
Std Dev 1.134

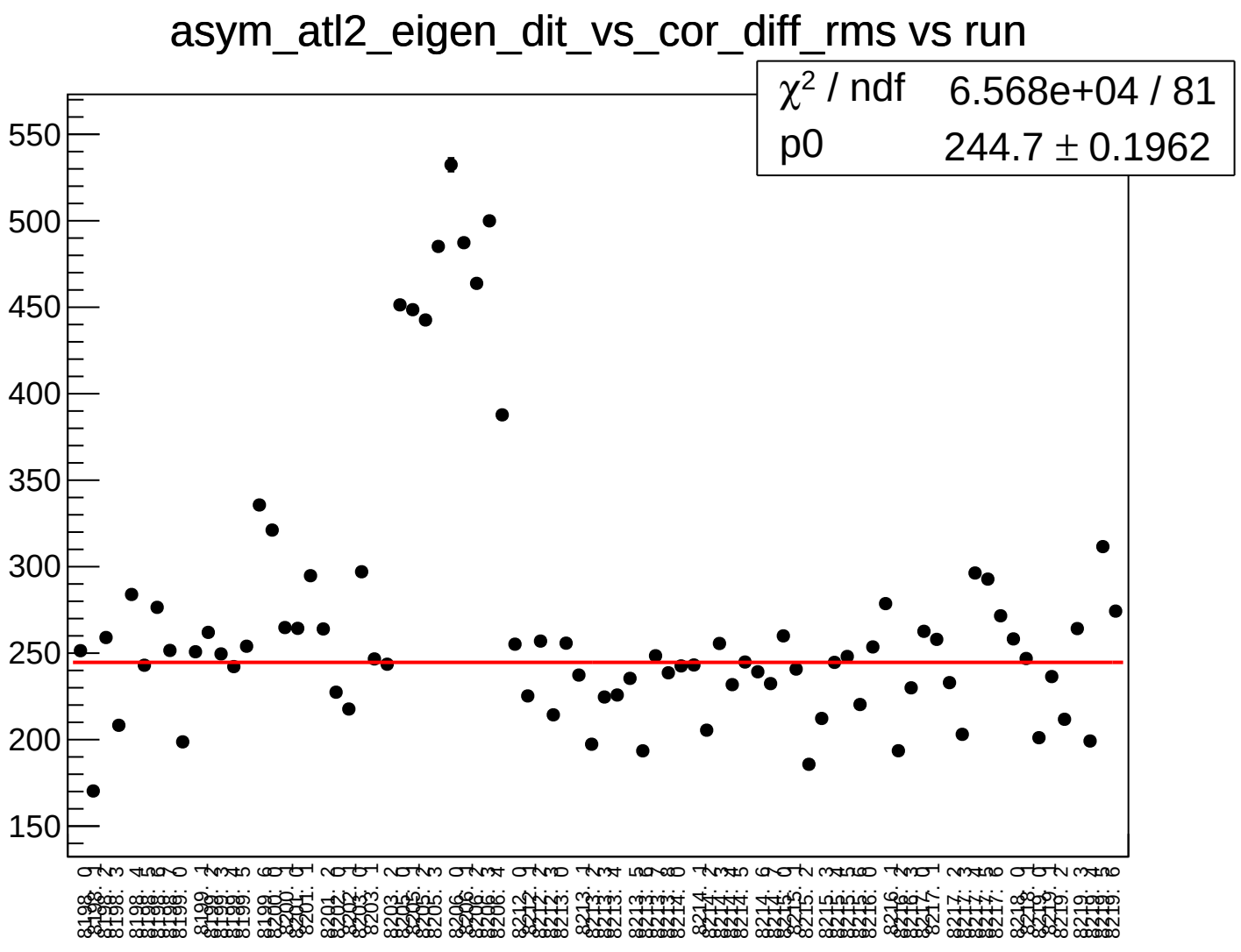

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.567e+04 / 81
p0 244.7 ± 0.1962
550
500
450
400
350
300
250
200
150

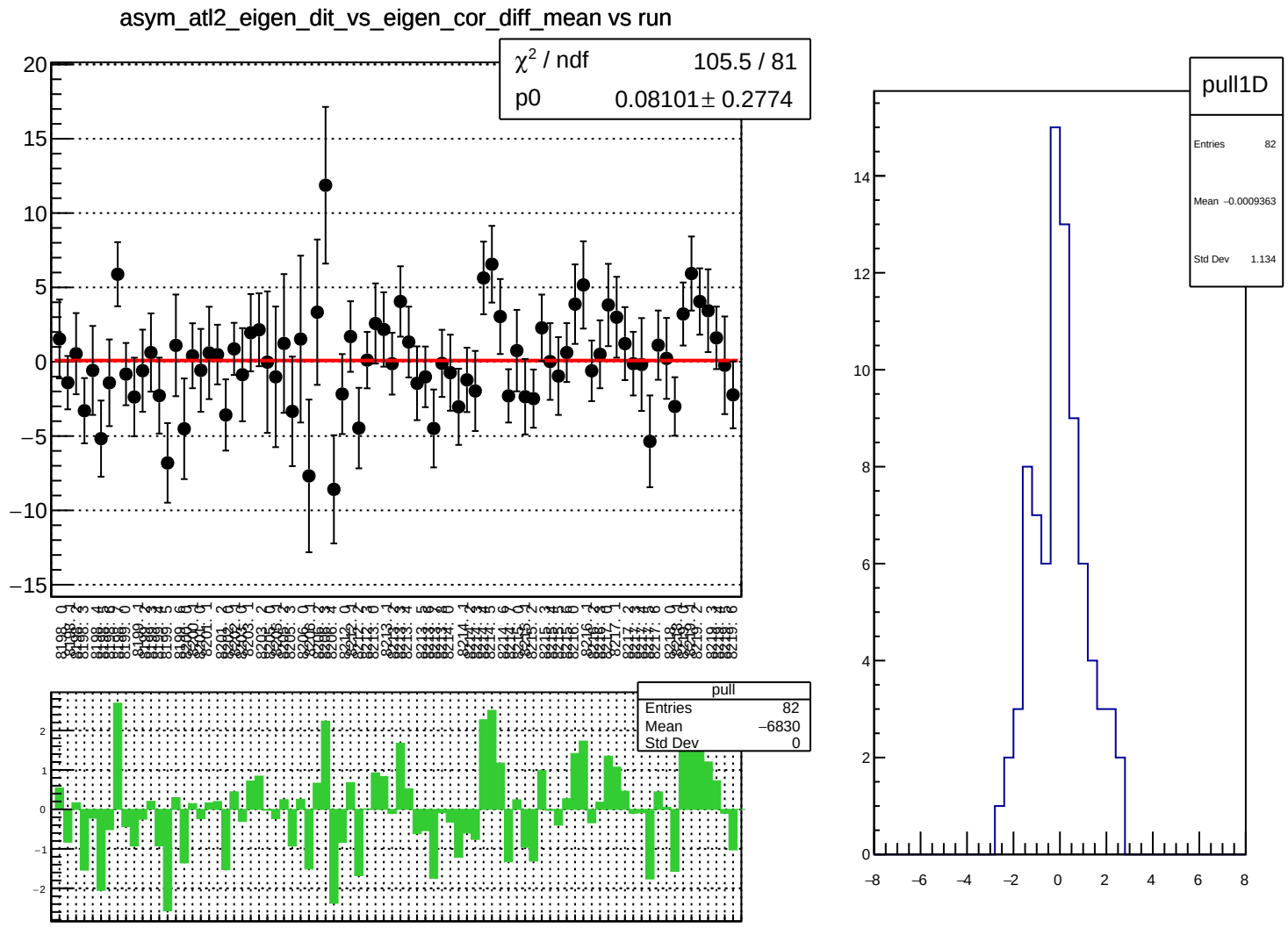

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 96.83 / 81
p0 2.82e−05 ± 4.252e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 82
Mean −178.4
Std Dev 0
3
2
1
0
−1
−2
−3

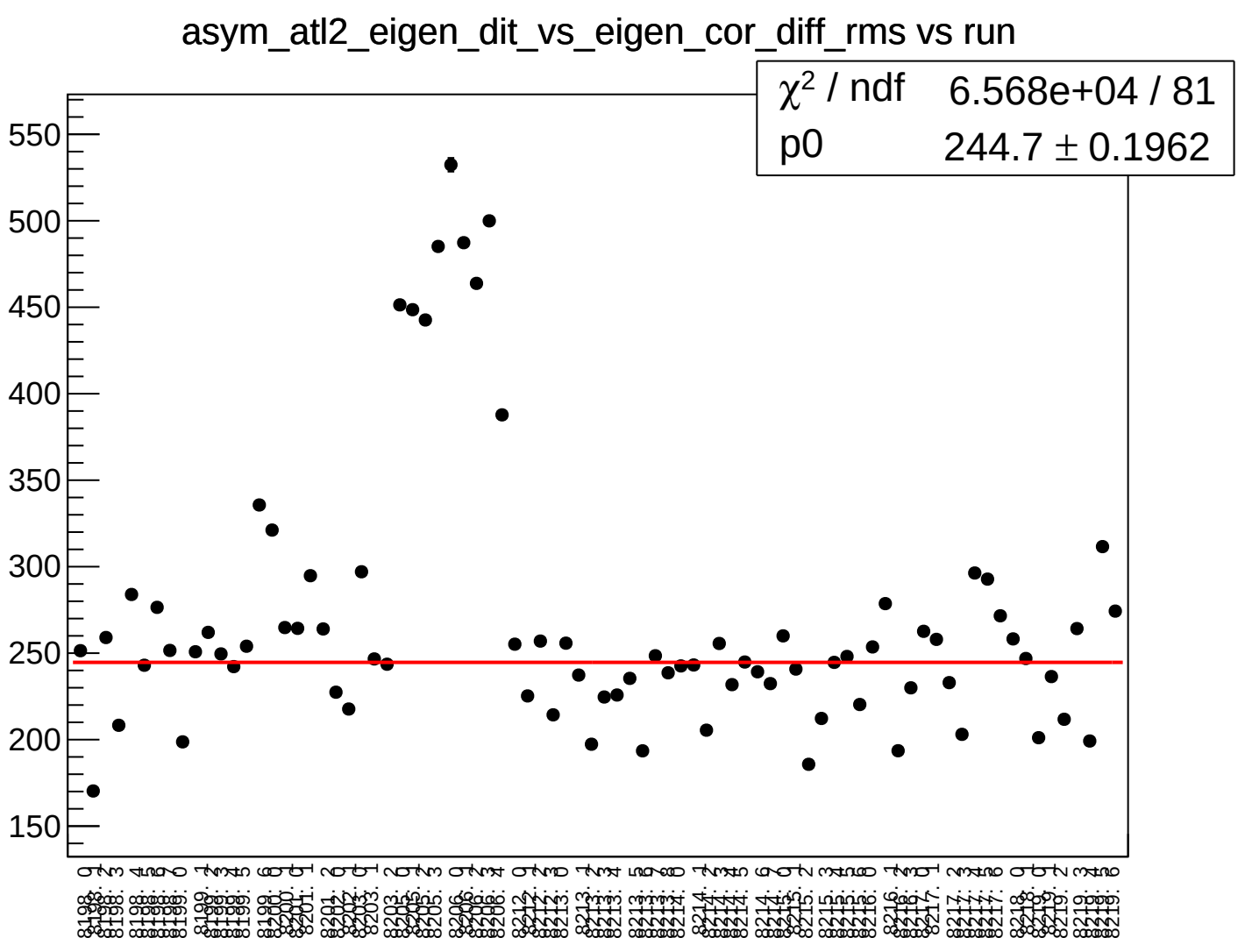

pull1D
Entries 82
Mean −0.00951
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

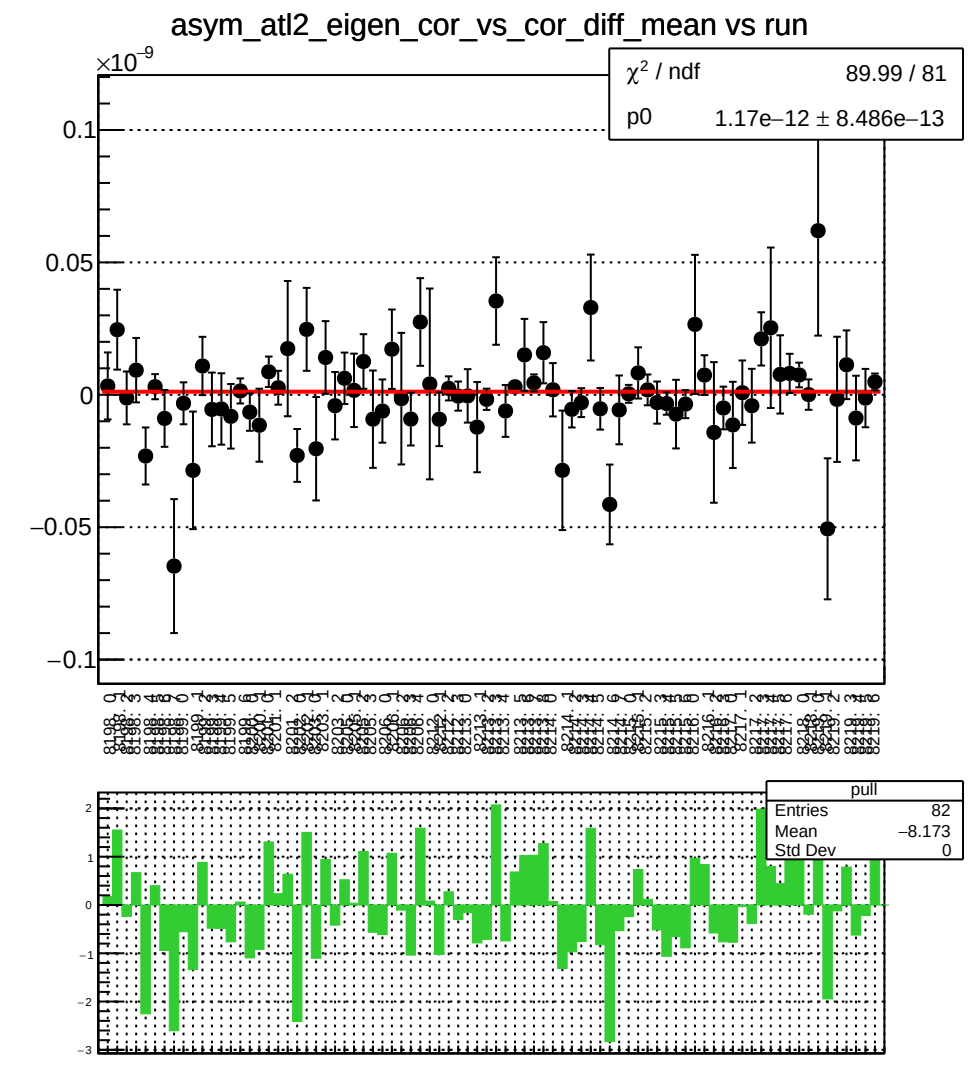

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2801 / 81
p0 0.03825 ± 3.006e−05
0.042
0.041
0.04
0.039
0.038
0.037
0.036
0.035
0.034

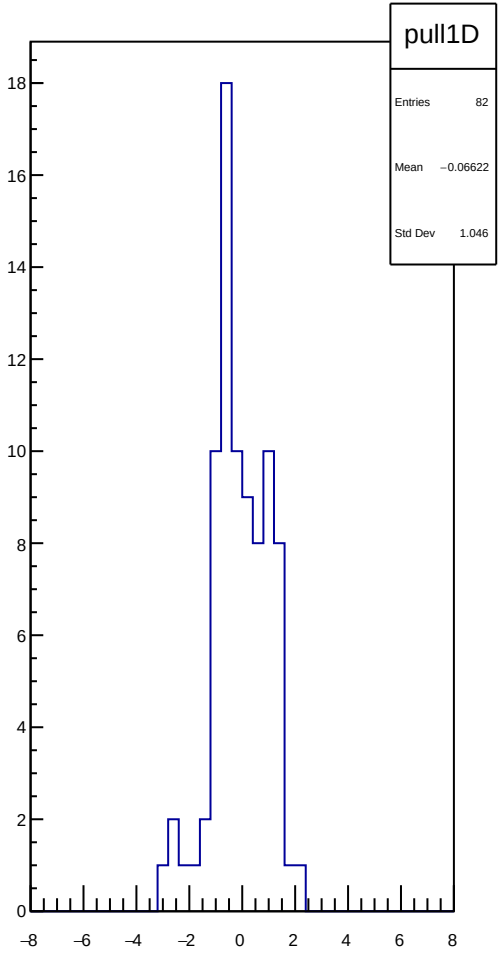

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 81
p0 0.08101 ± 0.2774
pull
Entries 82
Mean −6830
Std Dev 0
pull1D
Entries 82
Mean −0.0009363
Std Dev 1.134

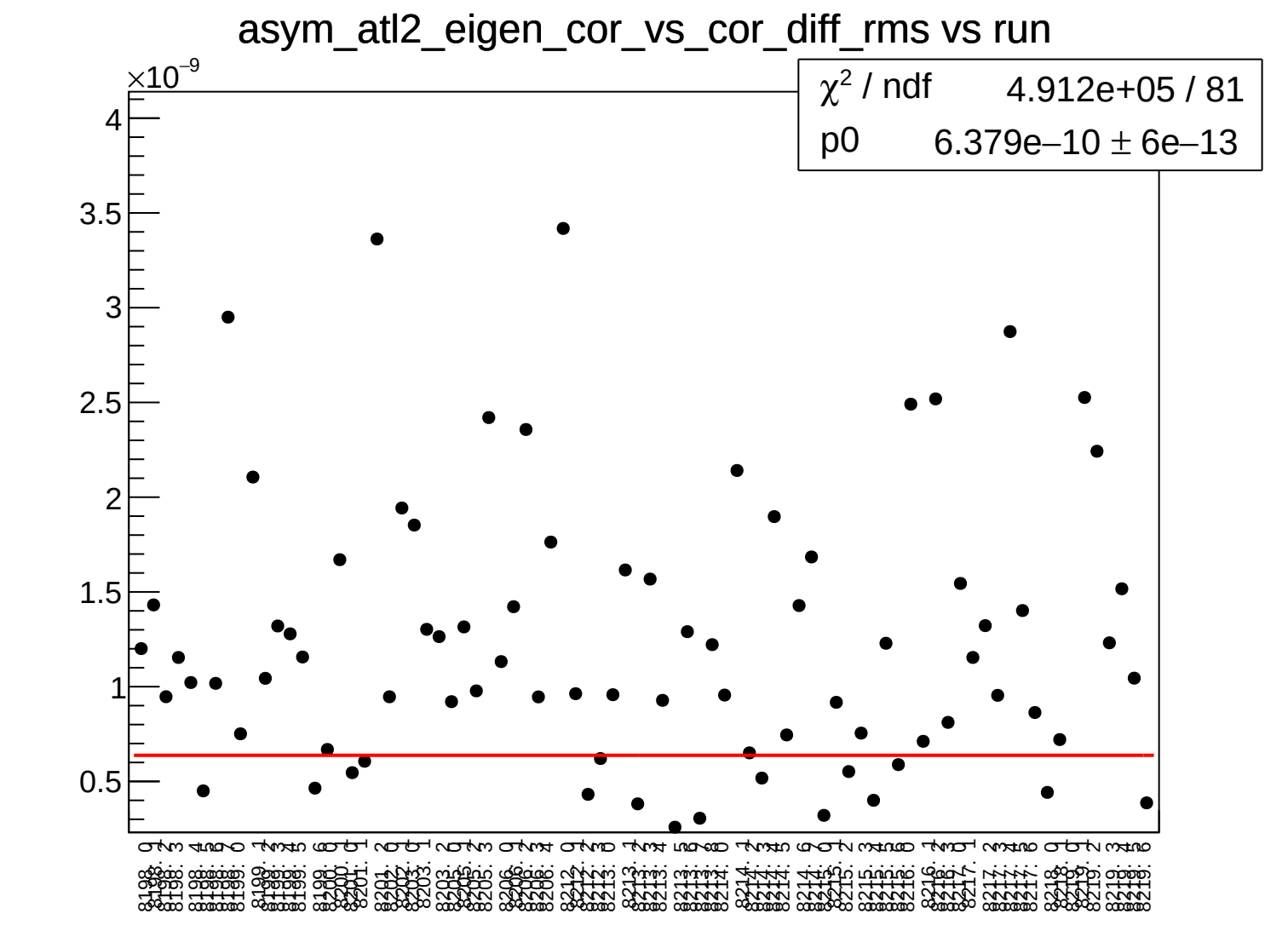

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.568e+04 / 81
p0 244.7 ± 0.1962
550
500
450
400
350
300
250
200
150

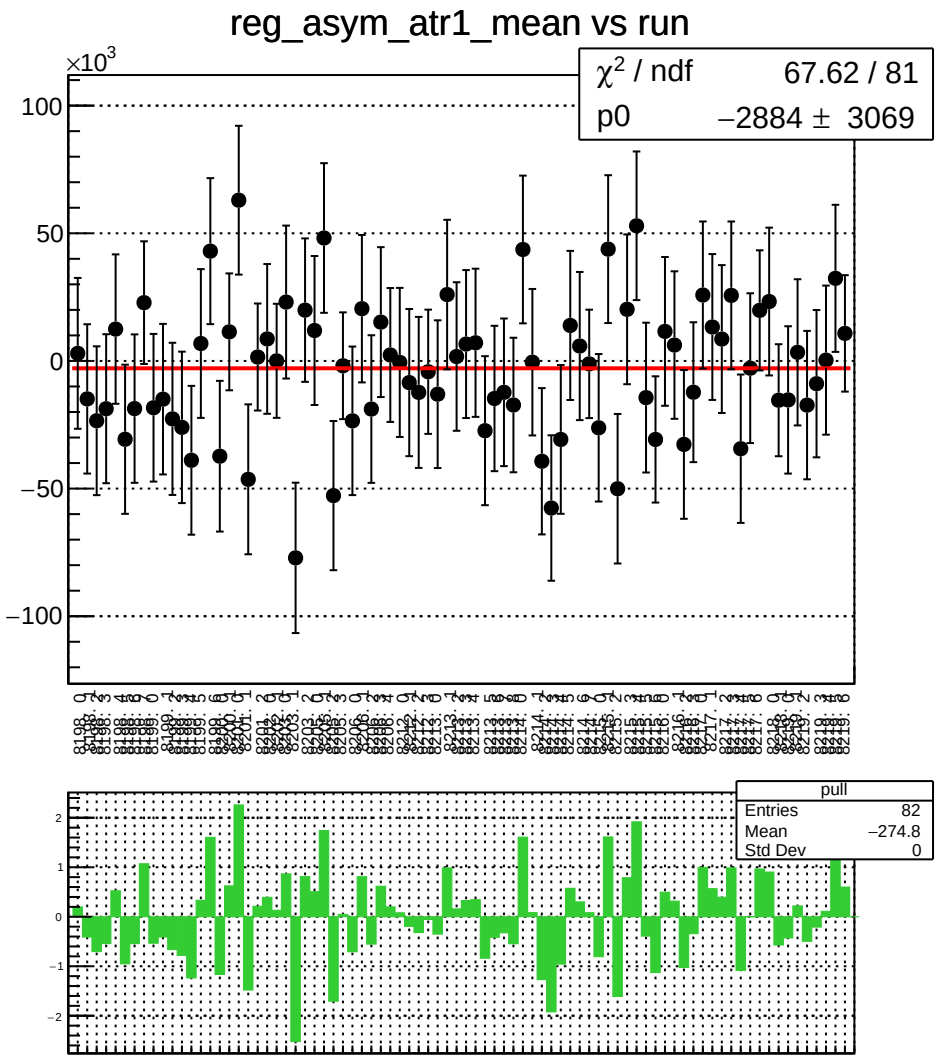

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 81
p0 0.08101 ± 0.2774
pull
Entries 82
Mean −6830
Std Dev 0
pull1D
Entries 82
Mean −0.0009363
Std Dev 1.134

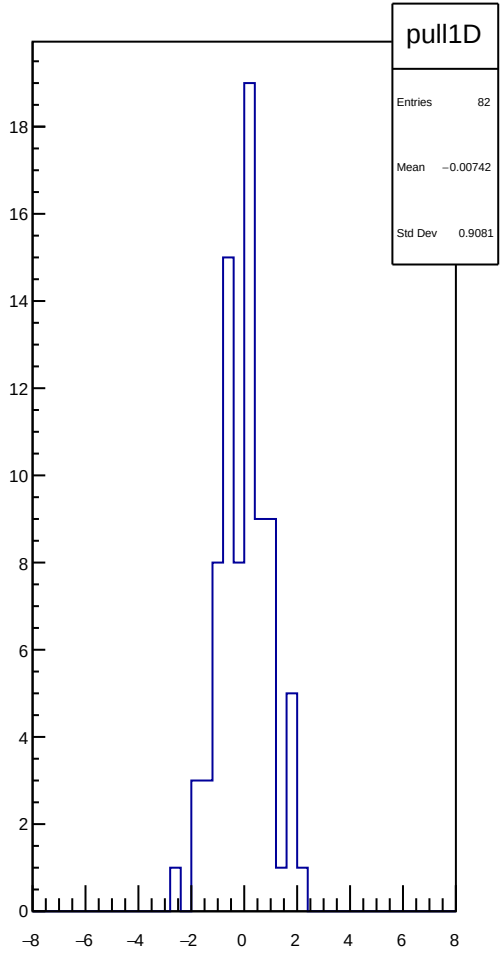

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.568e+04 / 81
p0 244.7 ± 0.1962
550
500
450
400
350
300
250
200
150

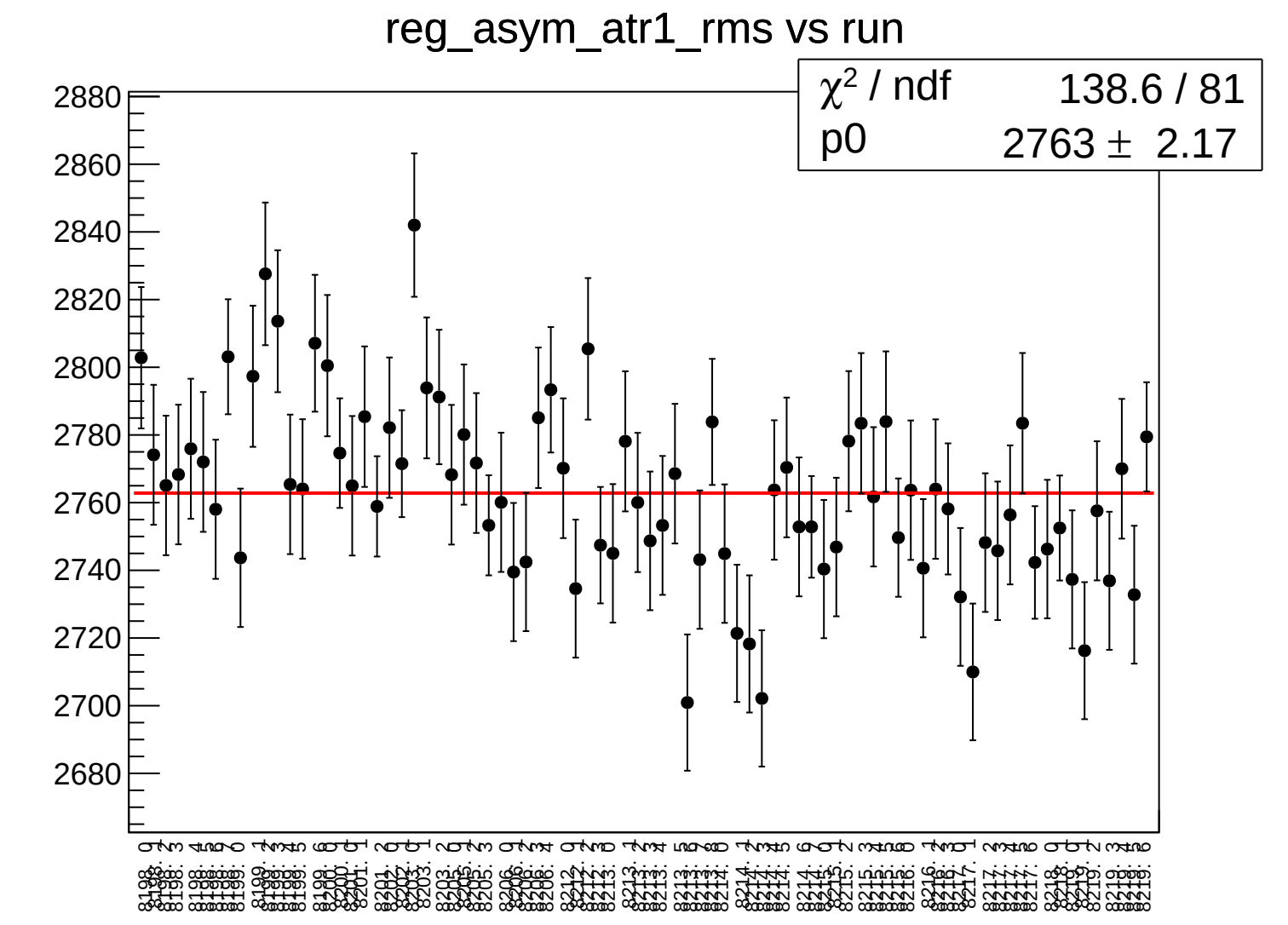

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 89.99 / 81
p0 1.17e−12 ± 8.486e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean −8.173
Std Dev 0
2
1
0
−1
−2
−3

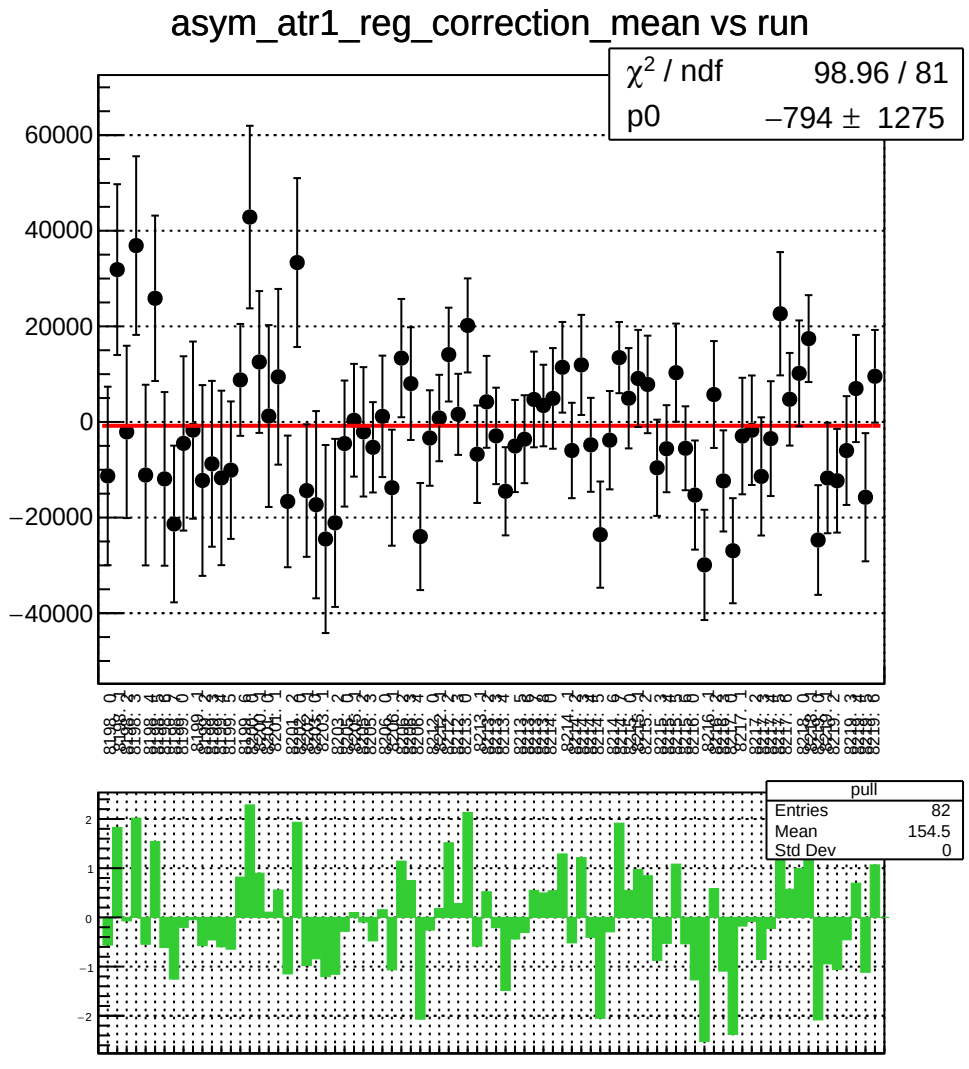

pull1D
Entries 82
Mean −0.06622
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

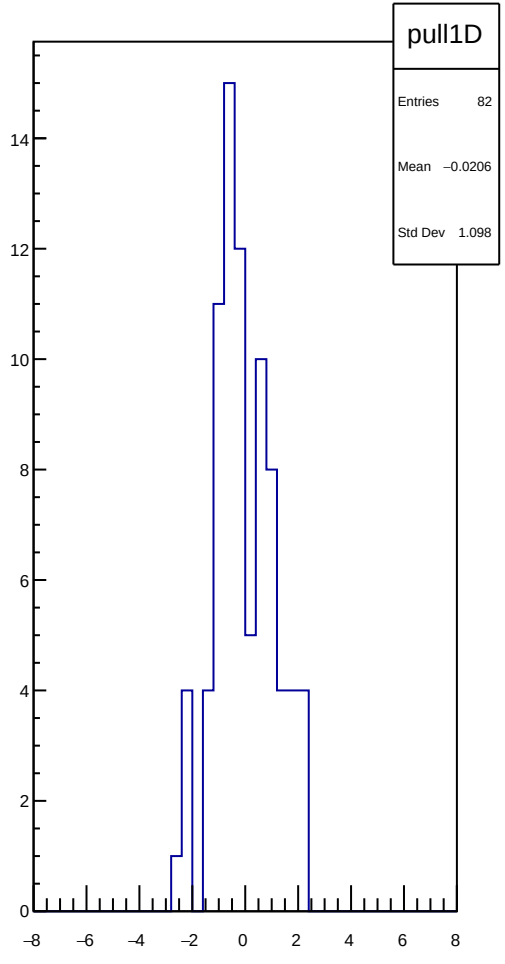

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.912e+05 / 81
p0 6.379e−10 ± 6e−13
4
3.5
3
2.5
2
1.5
1
0.5

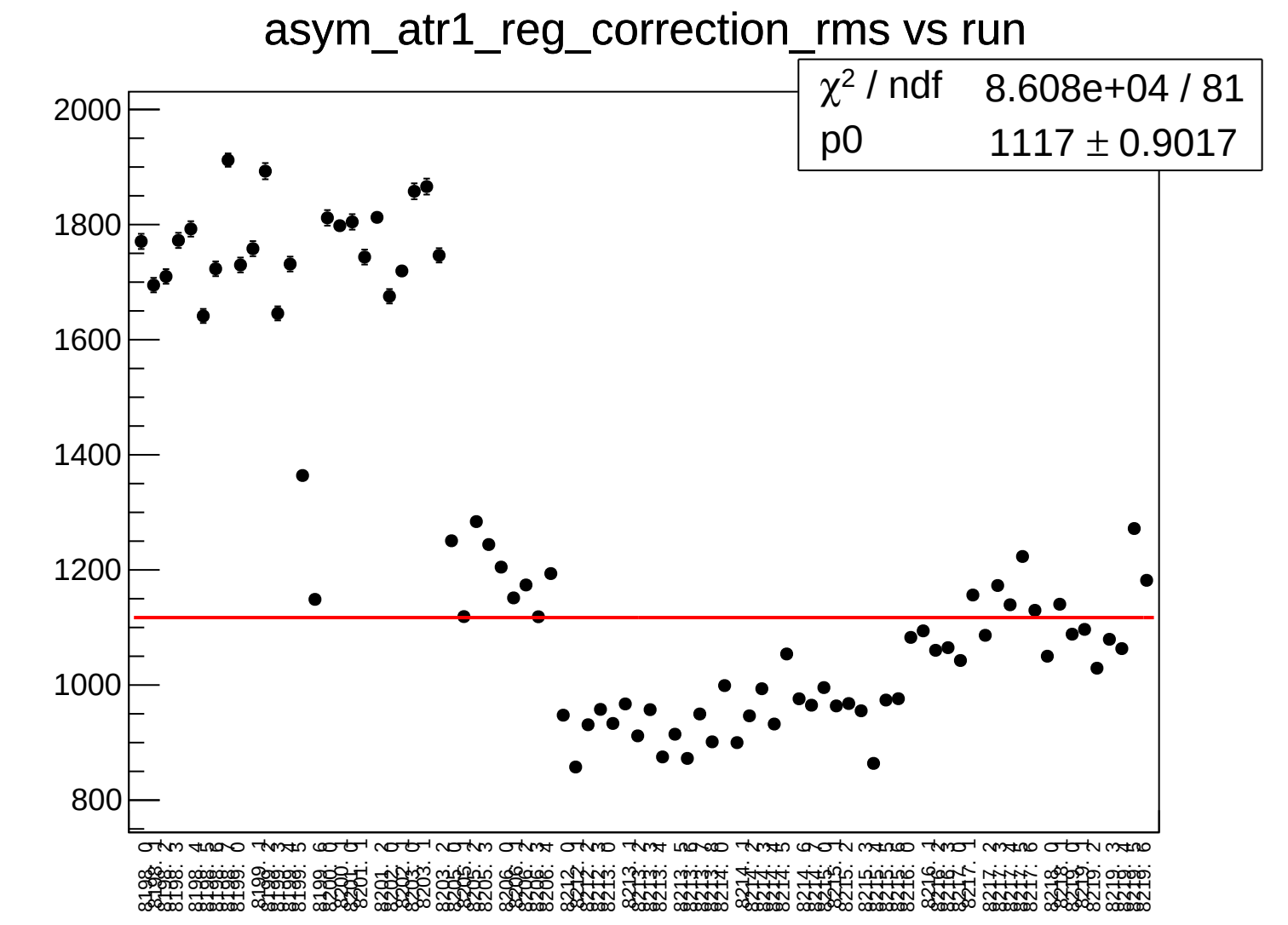

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 67.62 / 81
p0 −2884 ± 3069
100
50
0
−50
−100
pull
Entries 82
Mean −274.8
Std Dev 0
2
1
0
−1
−2

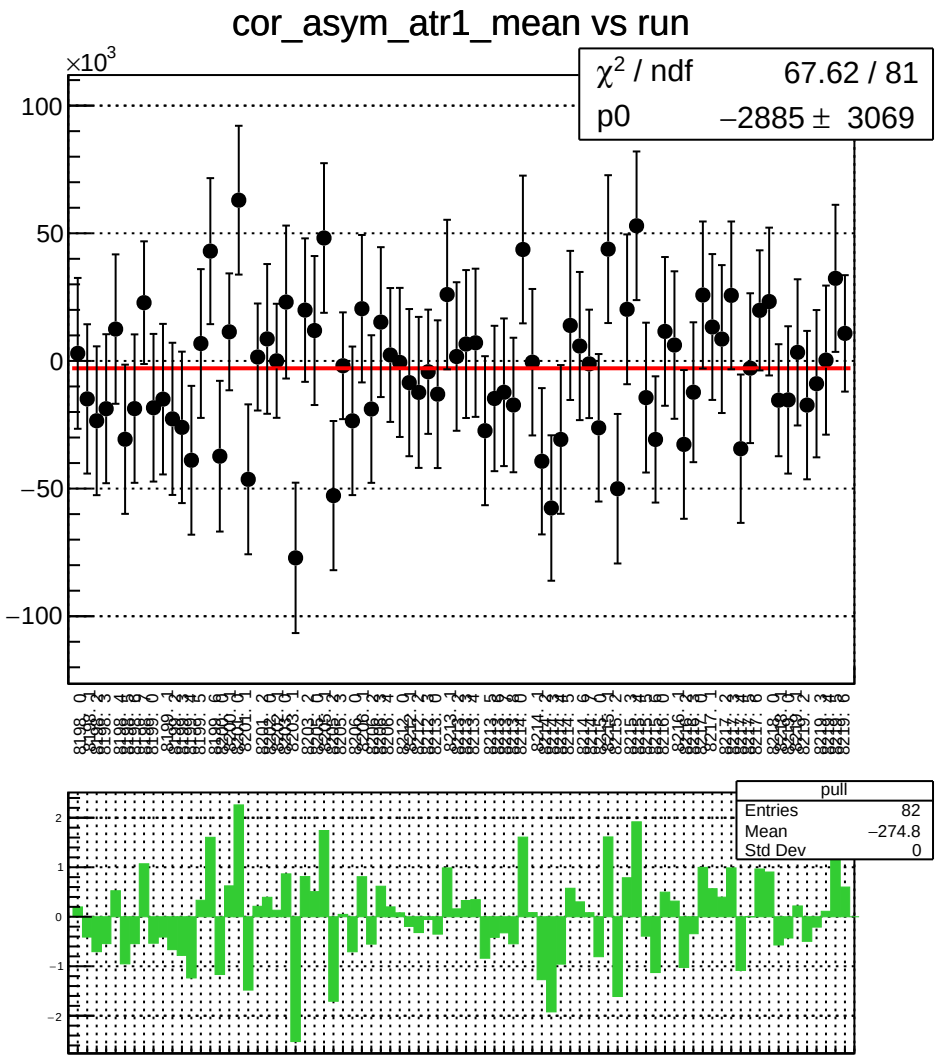

pull1D
Entries 82
Mean −0.00742
Std Dev 0.9081
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

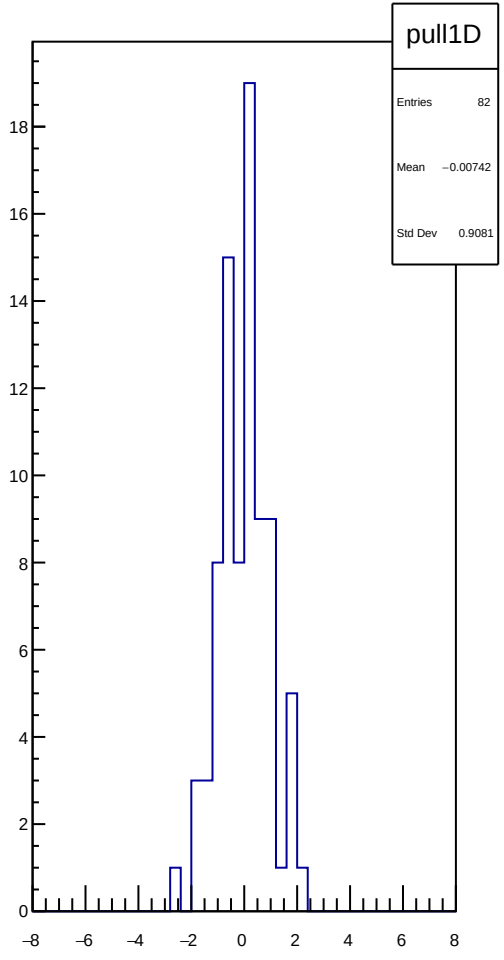

reg_asym_atr1_rms vs run
χ² / ndf 138.6 / 81
p0 2763 ± 2.17
2880
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680

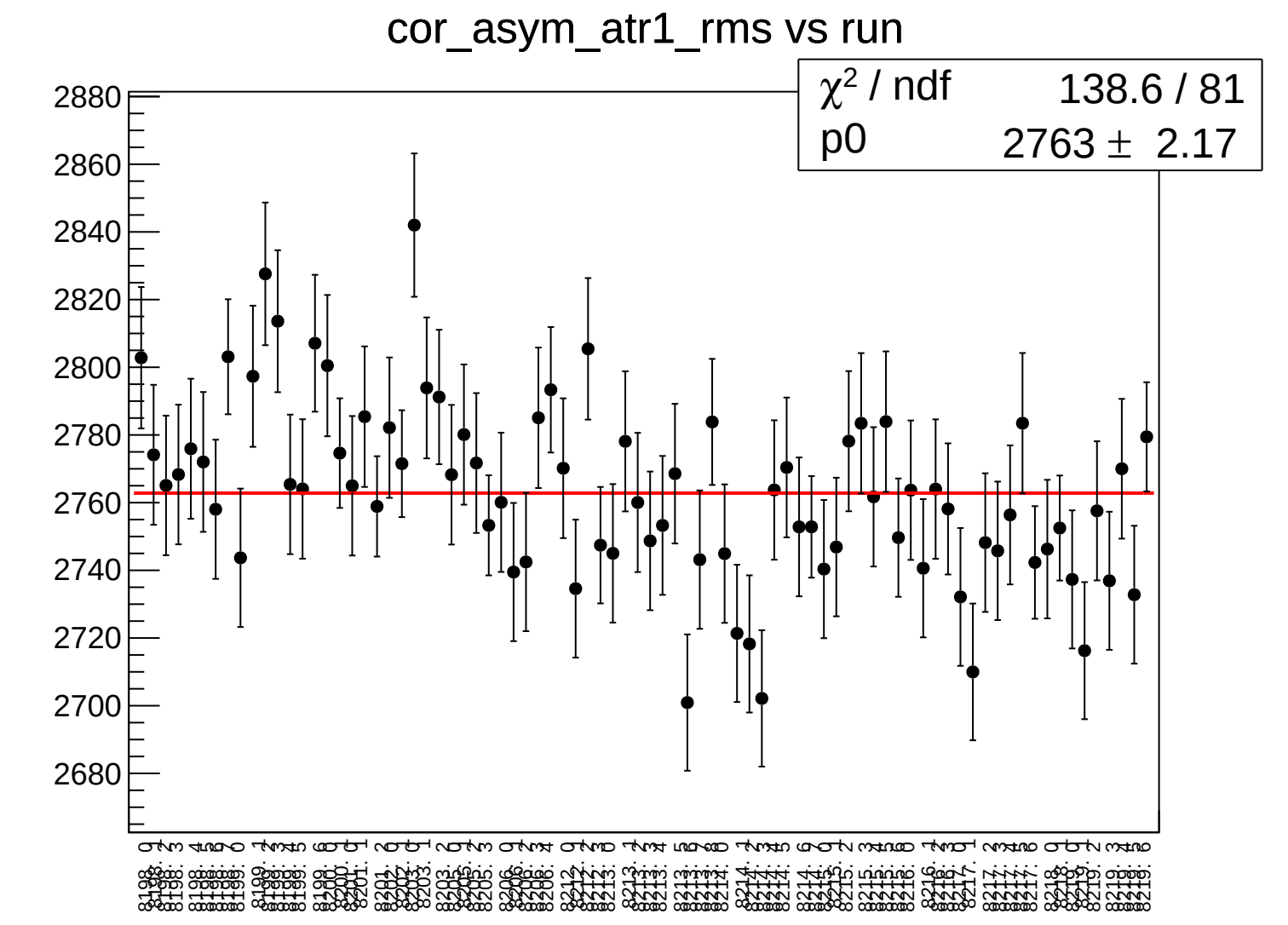

asym_atr1_reg_correction_mean vs run
χ² / ndf 98.96 / 81
p0 −794 ± 1275
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 154.5
Std Dev 0
2
1
0
−1
−2

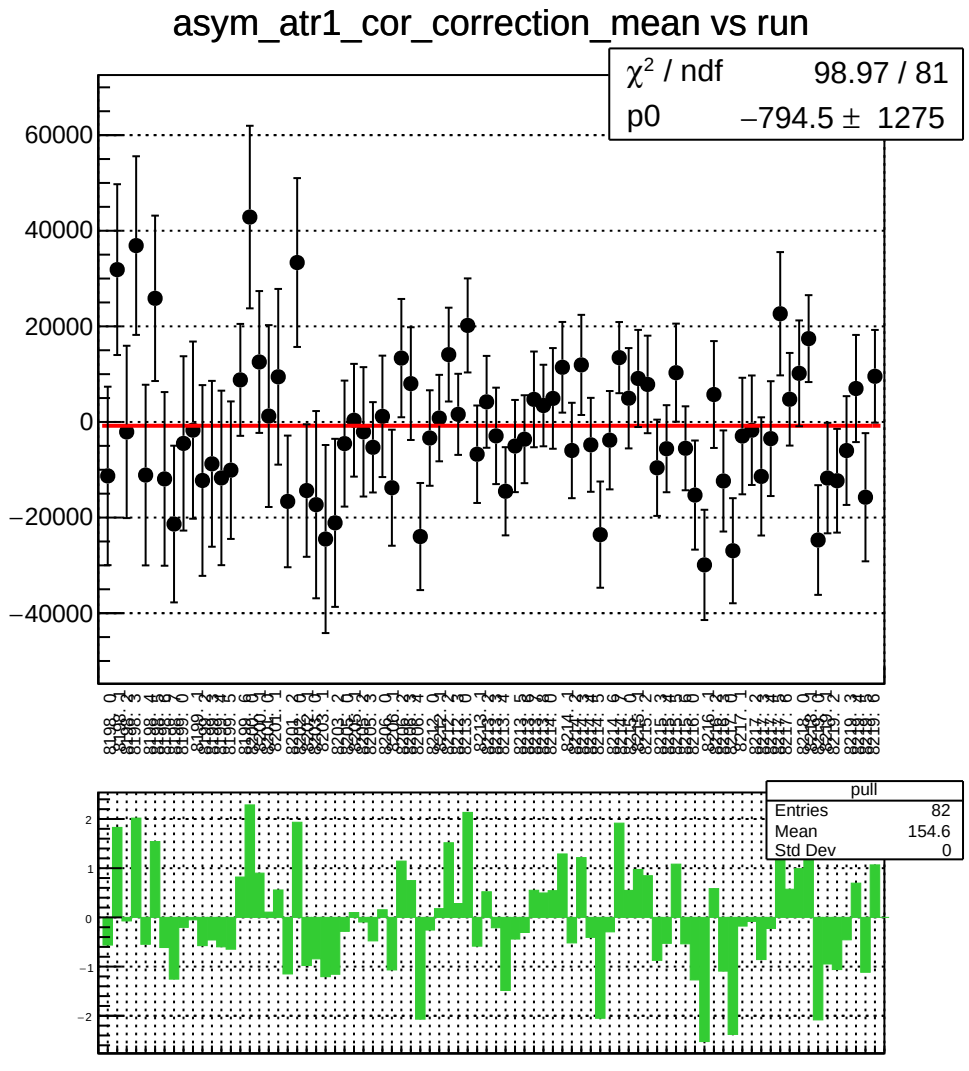

pull1D
Entries 82
Mean −0.0206
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

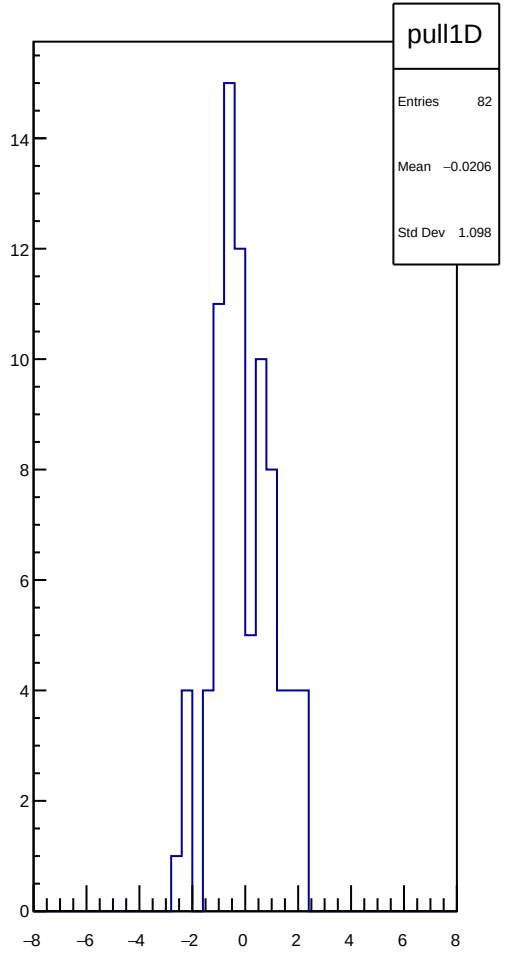

asym_atr1_reg_correction_rms vs run
χ² / ndf 8.608e+04 / 81
p0 1117 ± 0.9017
2000
1800
1600
1400
1200
1000
800

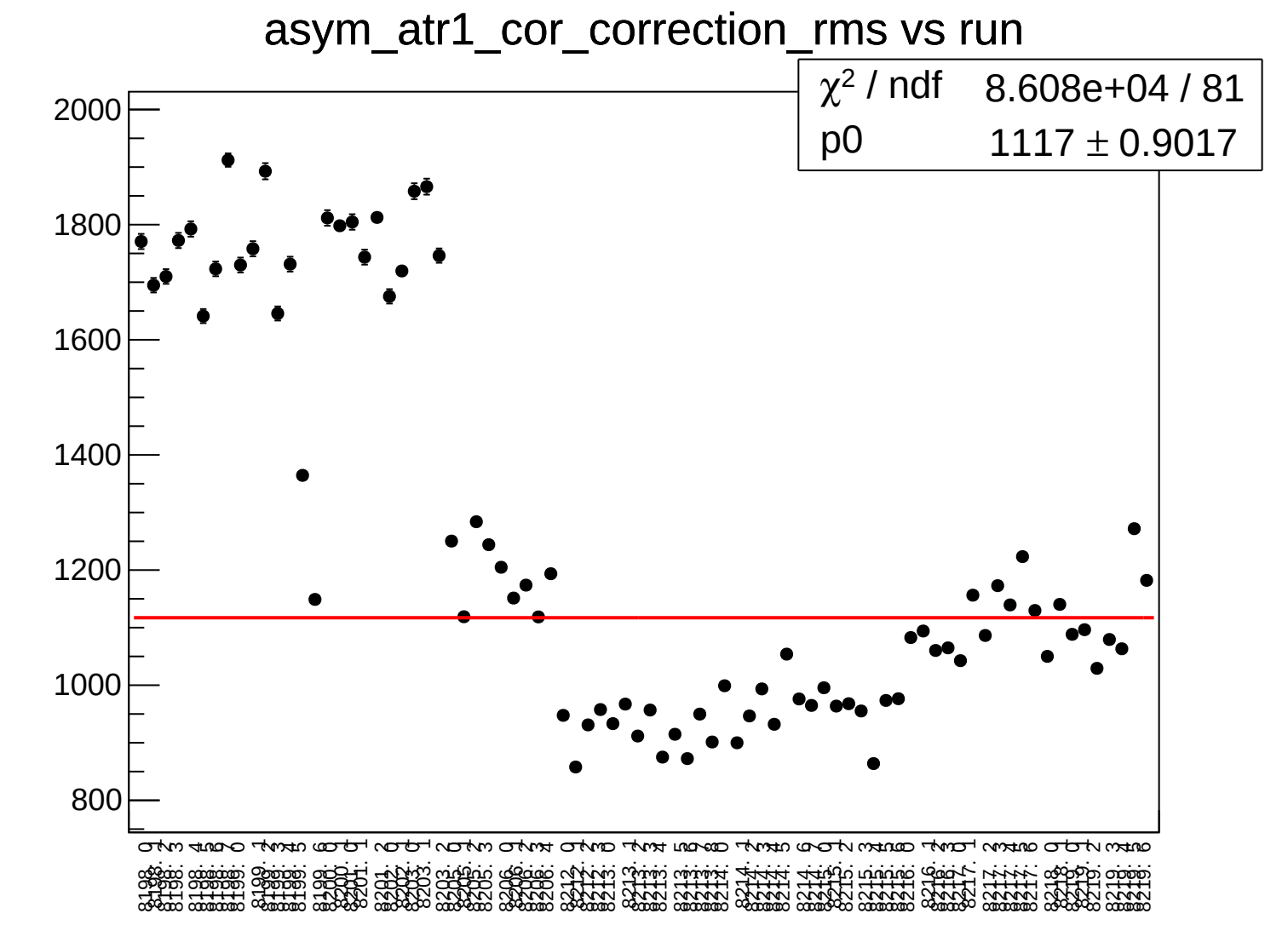

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 67.62 / 81
p0 −2885 ± 3069
100
50
0
−50
−100
pull
Entries 82
Mean −274.8
Std Dev 0
2
1
0
−1
−2

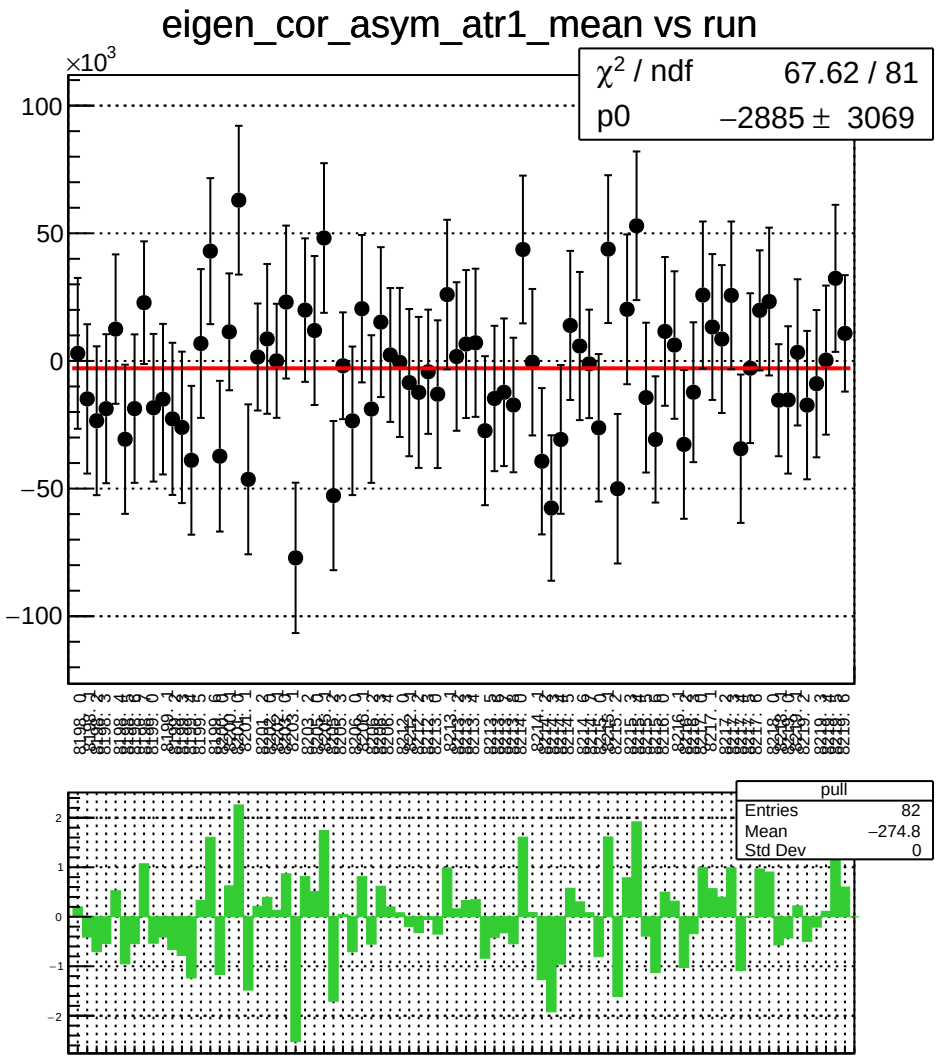

pull1D
Entries 82
Mean −0.00742
Std Dev 0.9081
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

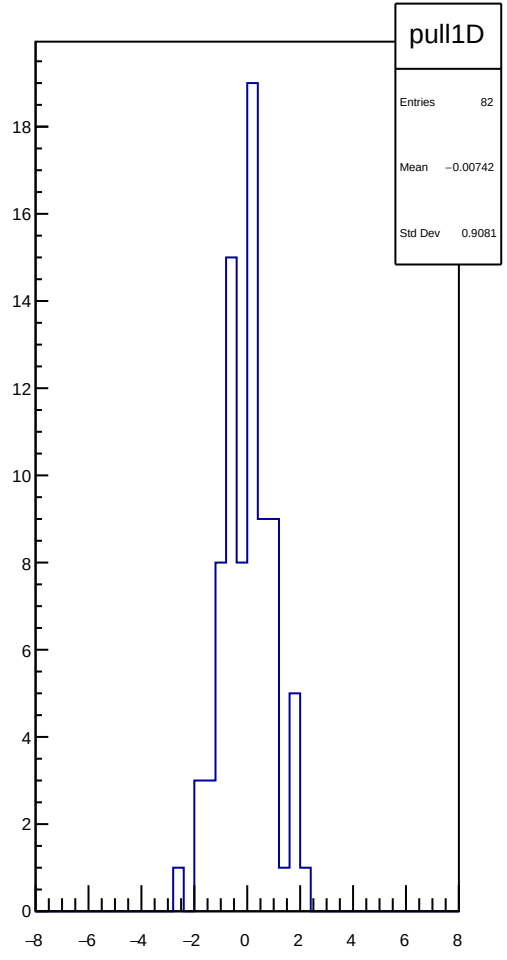

cor_asym_atr1_rms vs run
χ² / ndf 138.6 / 81
p0 2763 ± 2.17
2880
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680


asym_atr1_cor_correction_mean vs run
χ² / ndf 98.97 / 81
p0 −794.5 ± 1275
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 154.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 82
Mean −0.0206
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_cor_correction_rms vs run
χ² / ndf 8.608e+04 / 81
p0 1117 ± 0.9017
2000
1800
1600
1400
1200
1000
800


eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 67.62 / 81
p0 −2885 ± 3069
100
50
0
−50
−100
pull
Entries 82
Mean −274.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 82
Mean −0.00742
Std Dev 0.9081
18
16
14
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10
8
6
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2
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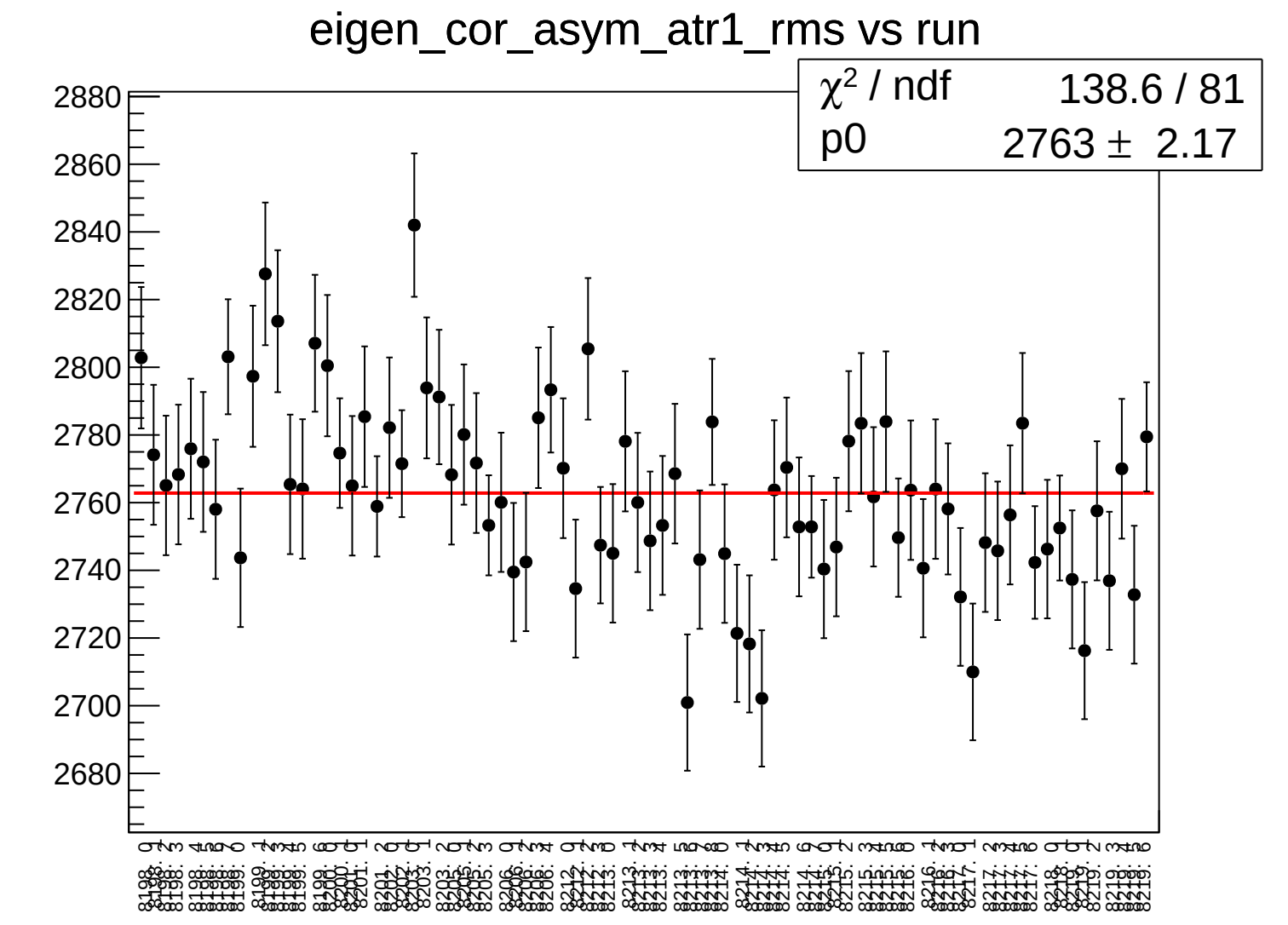
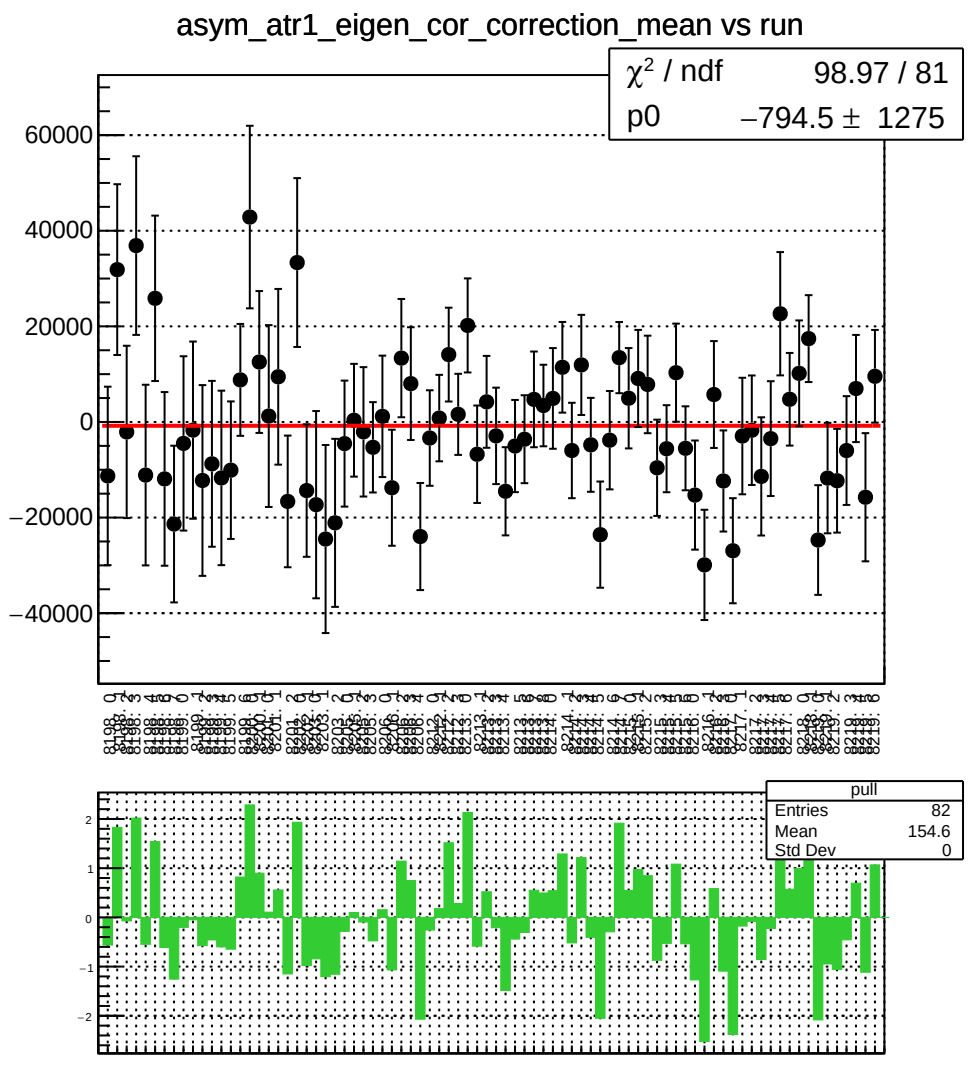
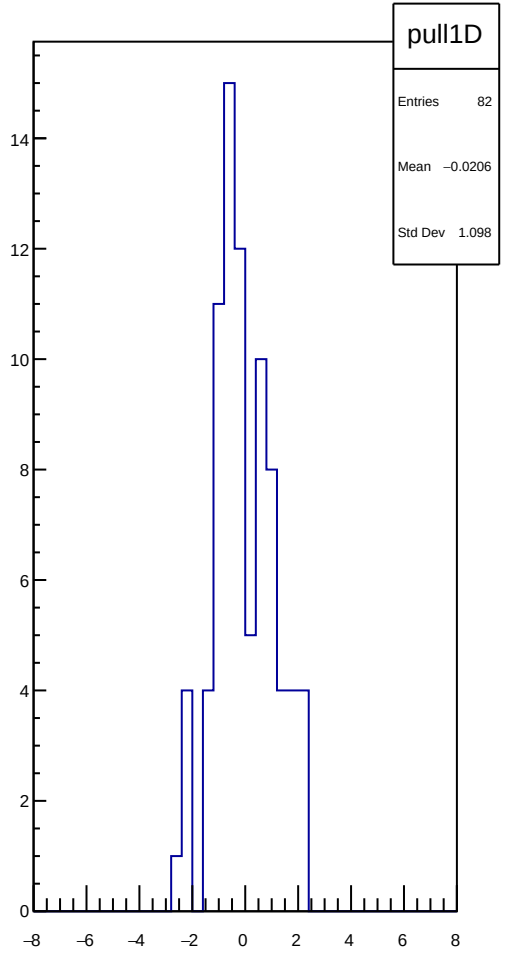
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr1_rms vs run
χ² / ndf 138.6 / 81
p0 2763 ± 2.17
2880
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680


asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 98.97 / 81
p0 −794.5 ± 1275
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 154.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 82
Mean −0.0206
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
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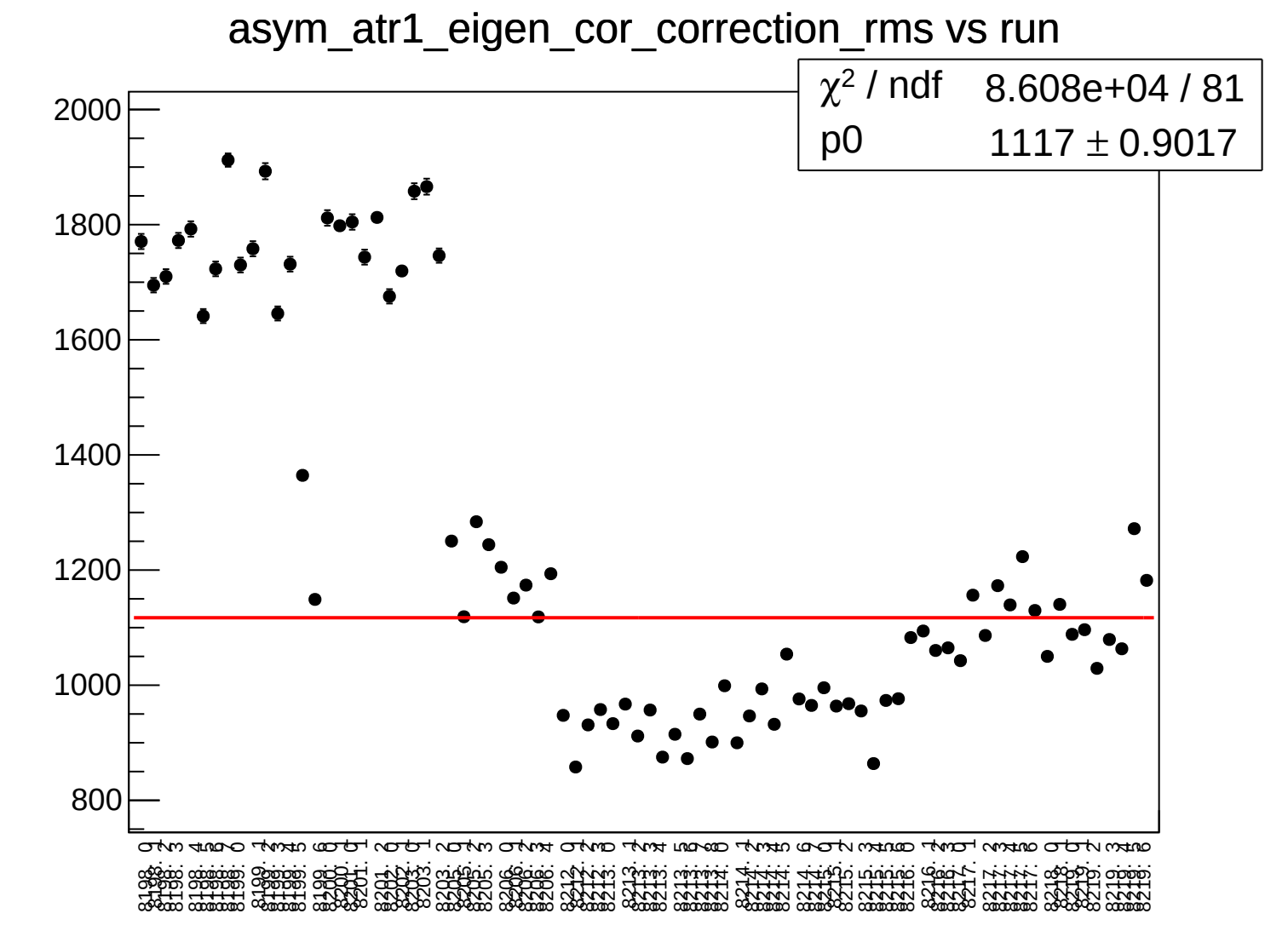
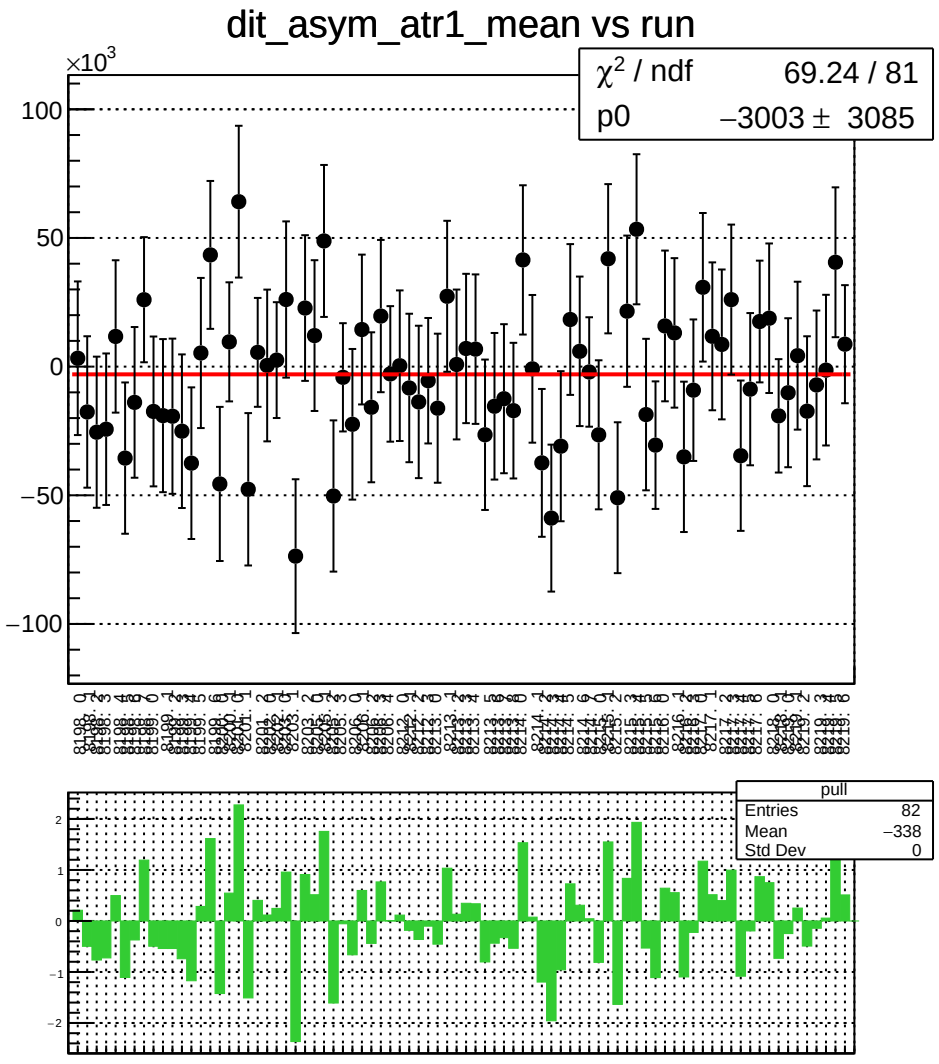
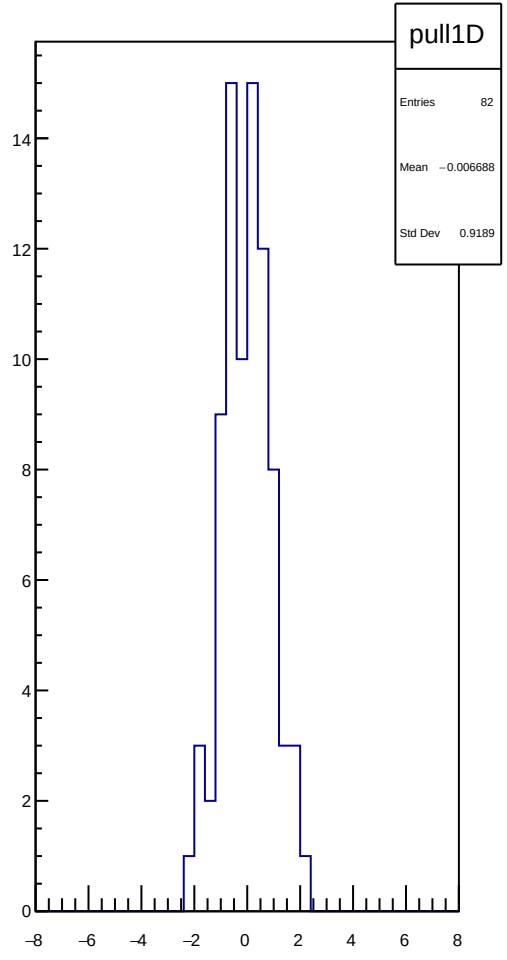
2
4
6
8


asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 8.608e+04 / 81
p0 1117 ± 0.9017
2000
1800
1600
1400
1200
1000
800


dit_asym_atr1_mean vs run
×10^3
χ² / ndf 69.24 / 81
p0 −3003 ± 3085
100
50
0
−50
−100
pull
Entries 82
Mean −338
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 82
Mean −0.006688
Std Dev 0.9189
14
12
10
8
6
4
2
0
−8
−6
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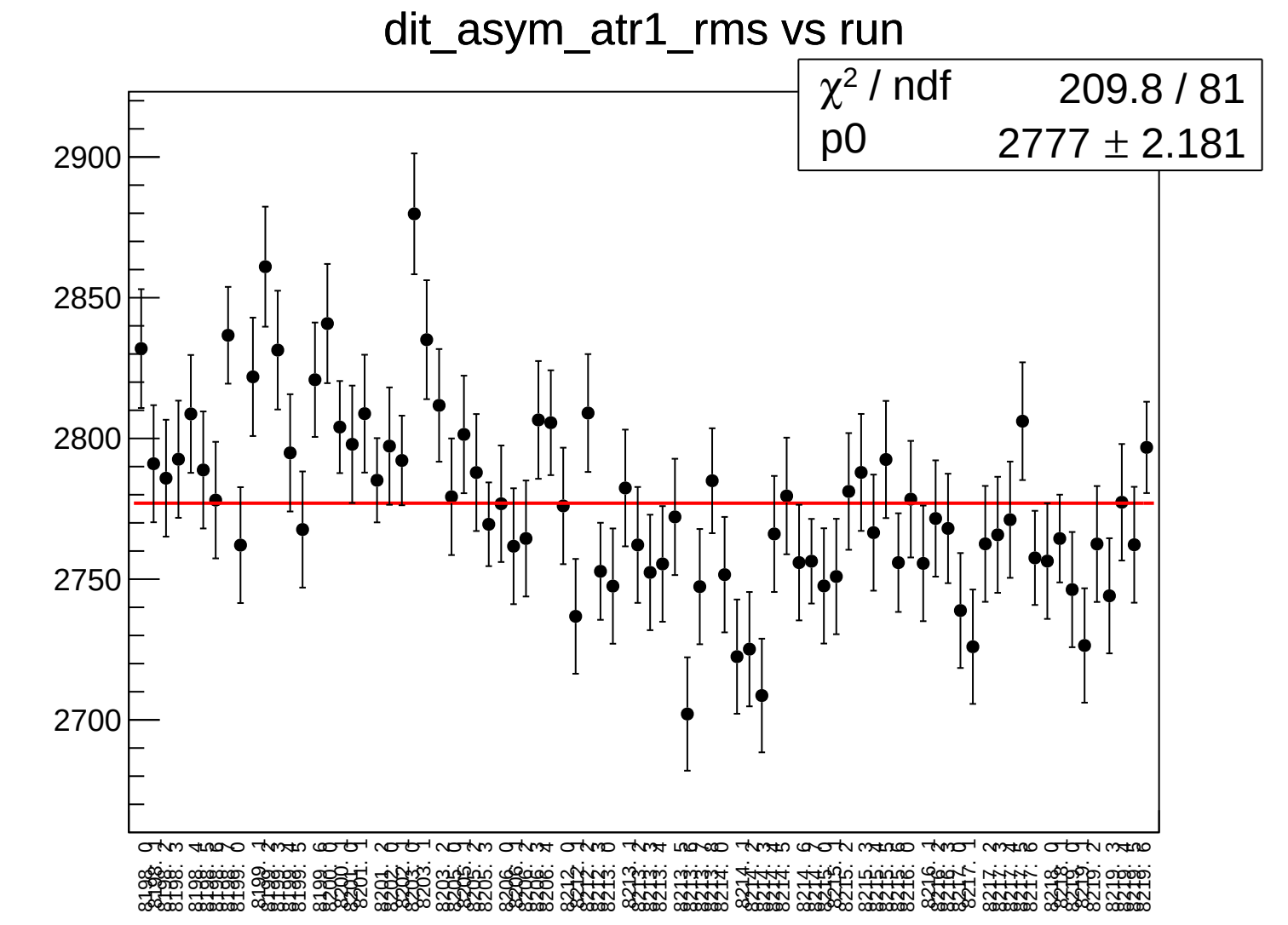
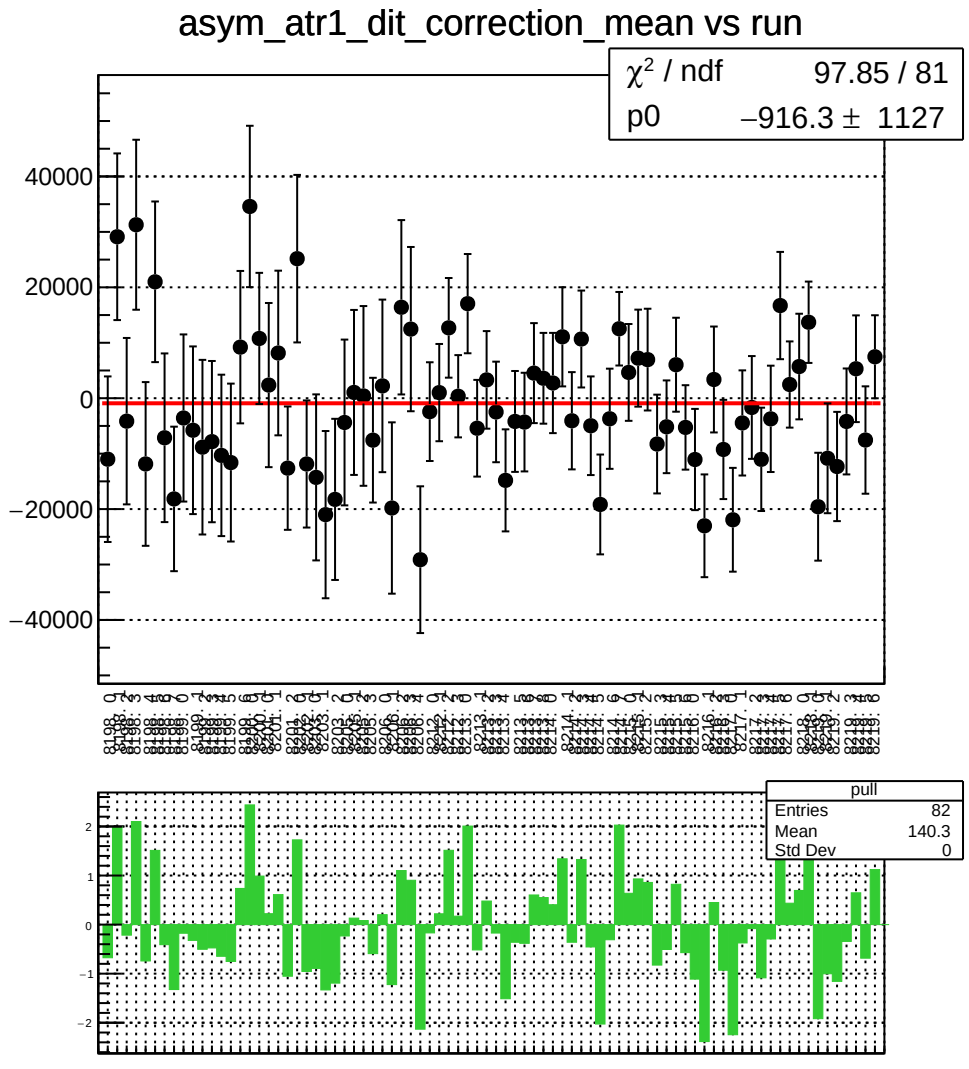
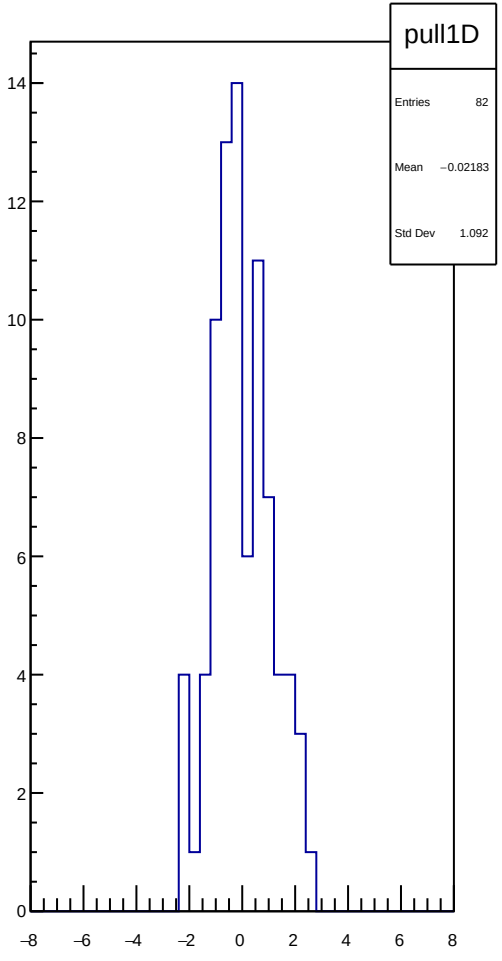
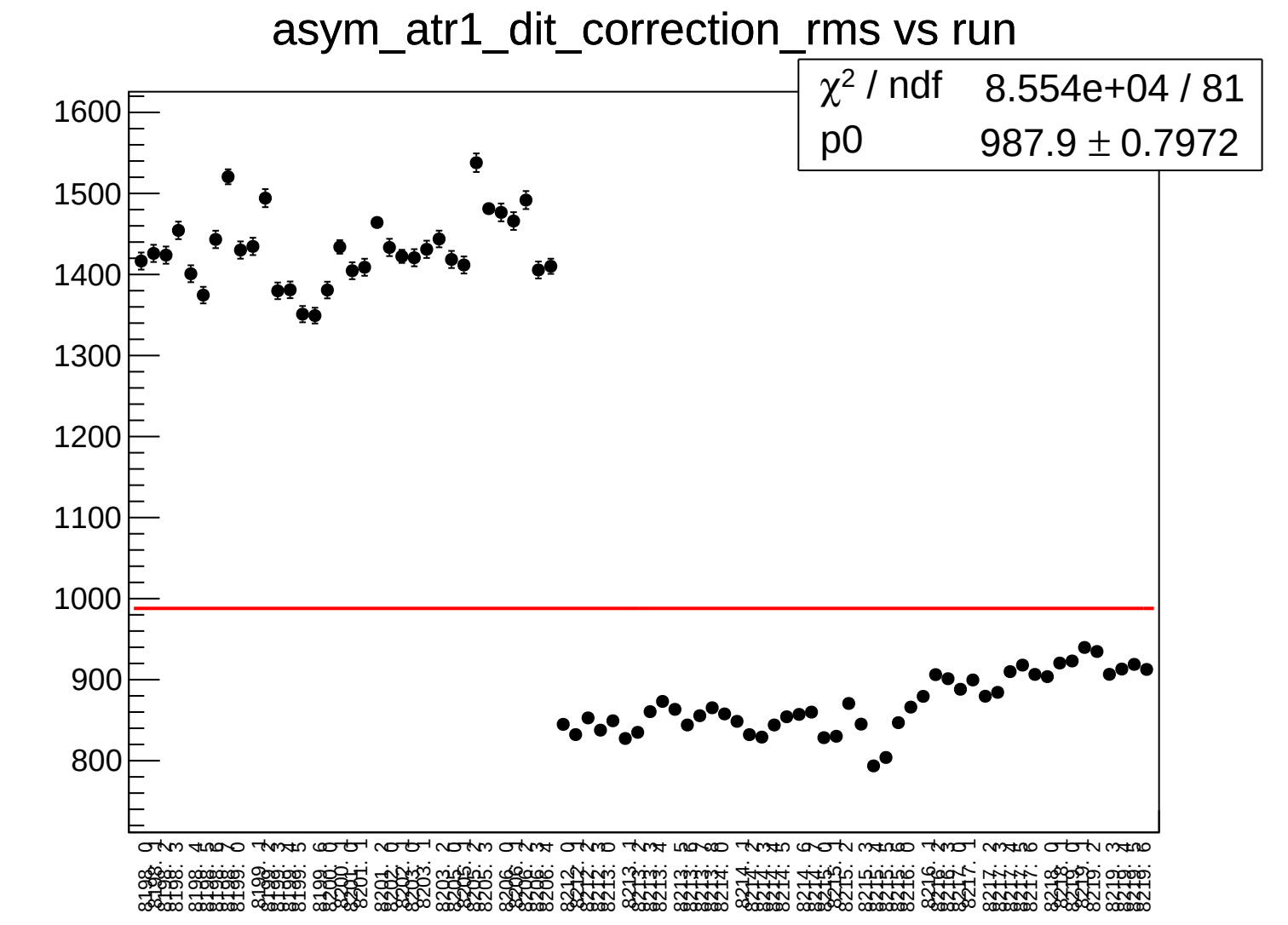
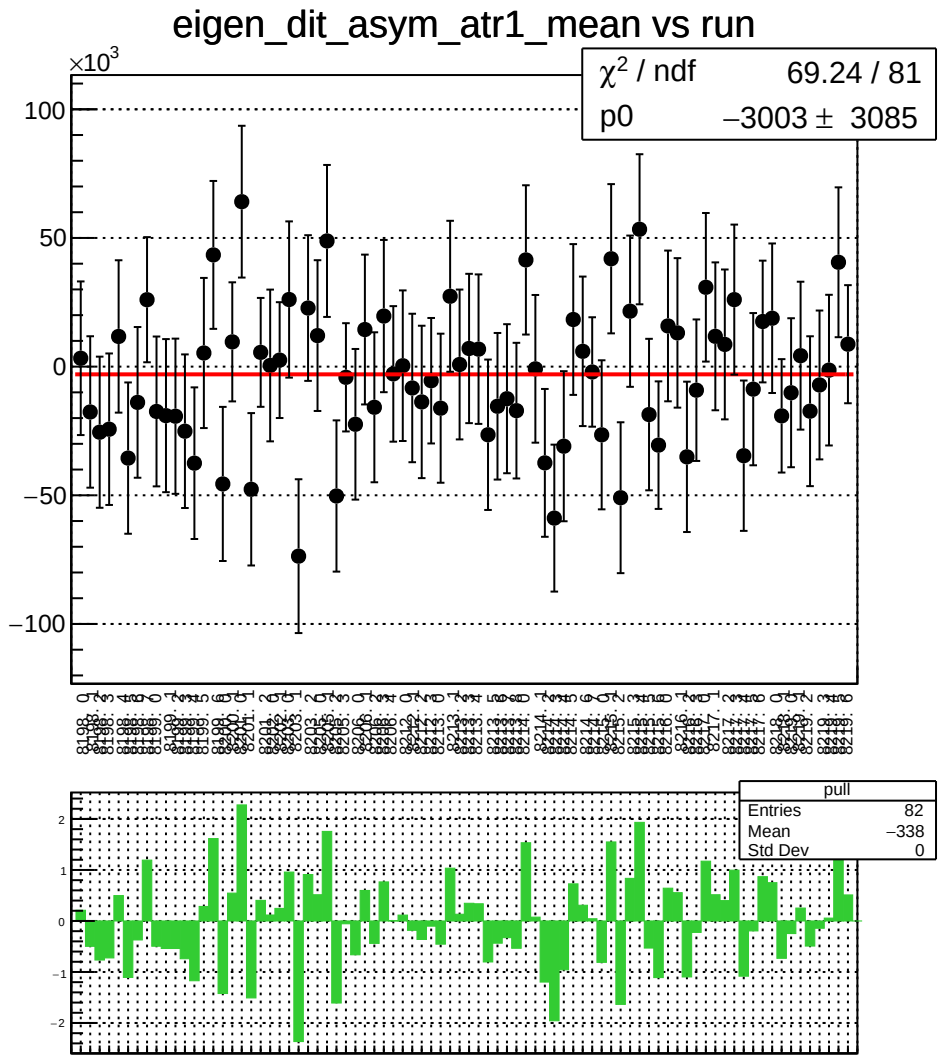
2
4
6
8

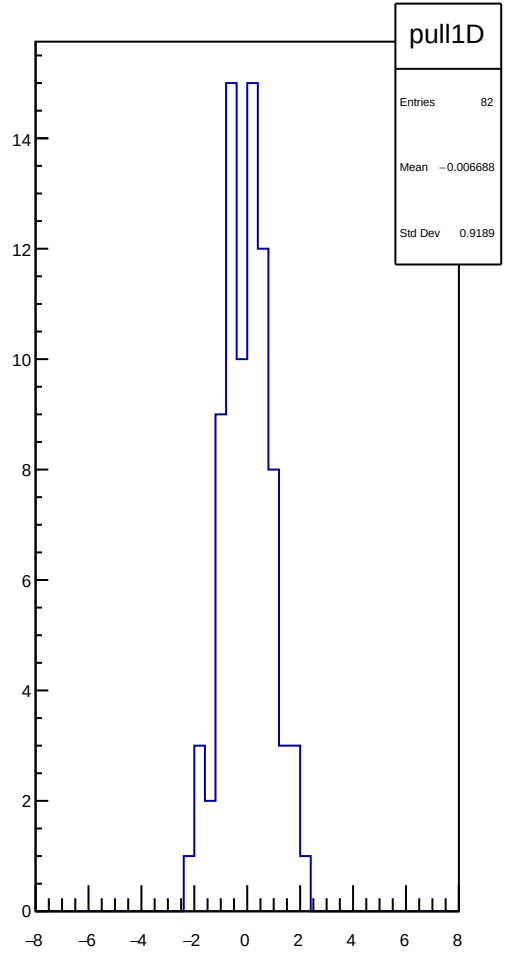

dit_asym_atr1_rms vs run
χ² / ndf 209.8 / 81
p0 2777 ± 2.181
2900
2850
2800
2750
2700

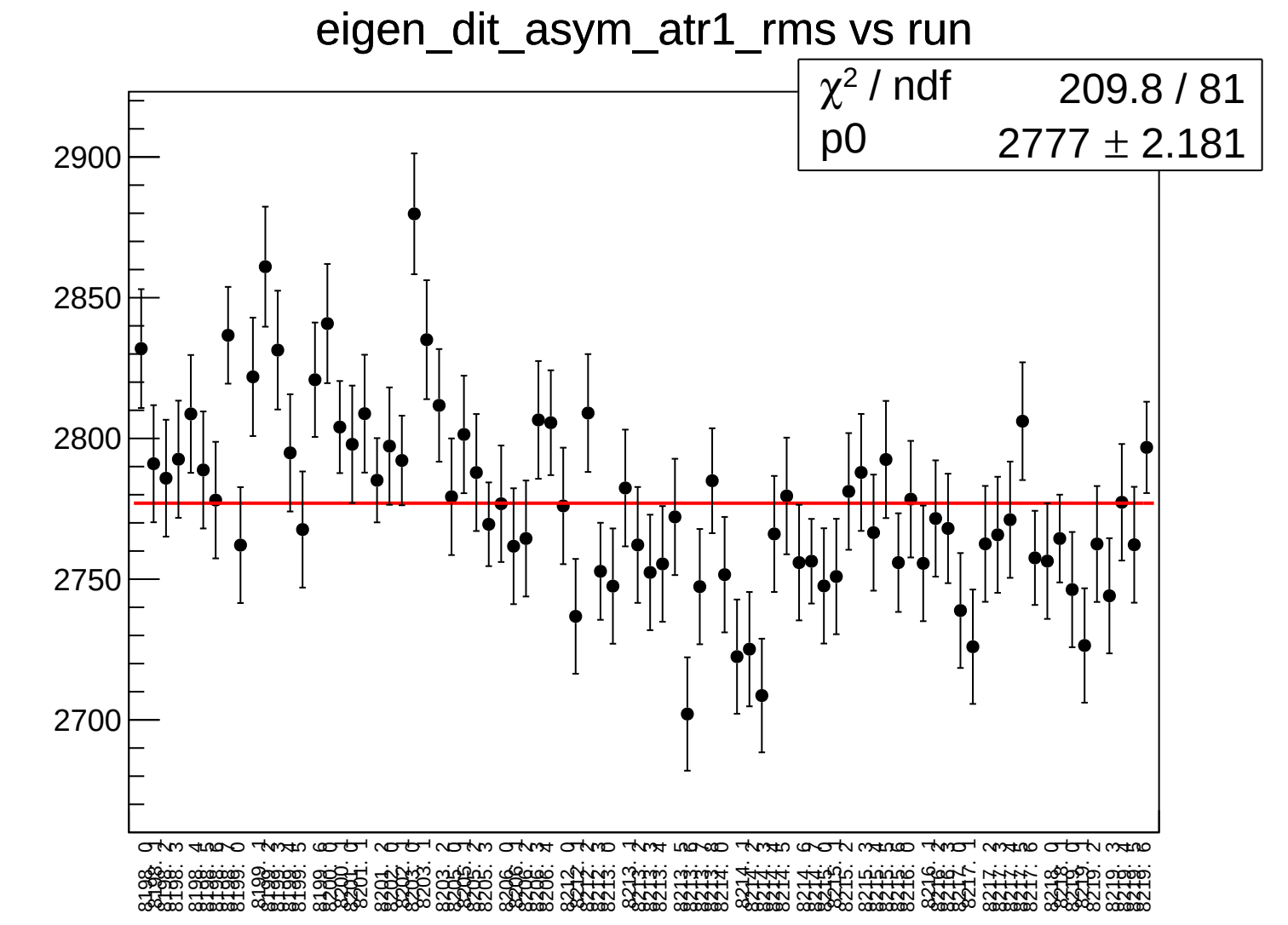

asym_atr1_dit_correction_mean vs run
χ² / ndf 97.85 / 81
p0 −916.3 ± 1127
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 140.3
Std Dev 0
2
1
0
−1
−2

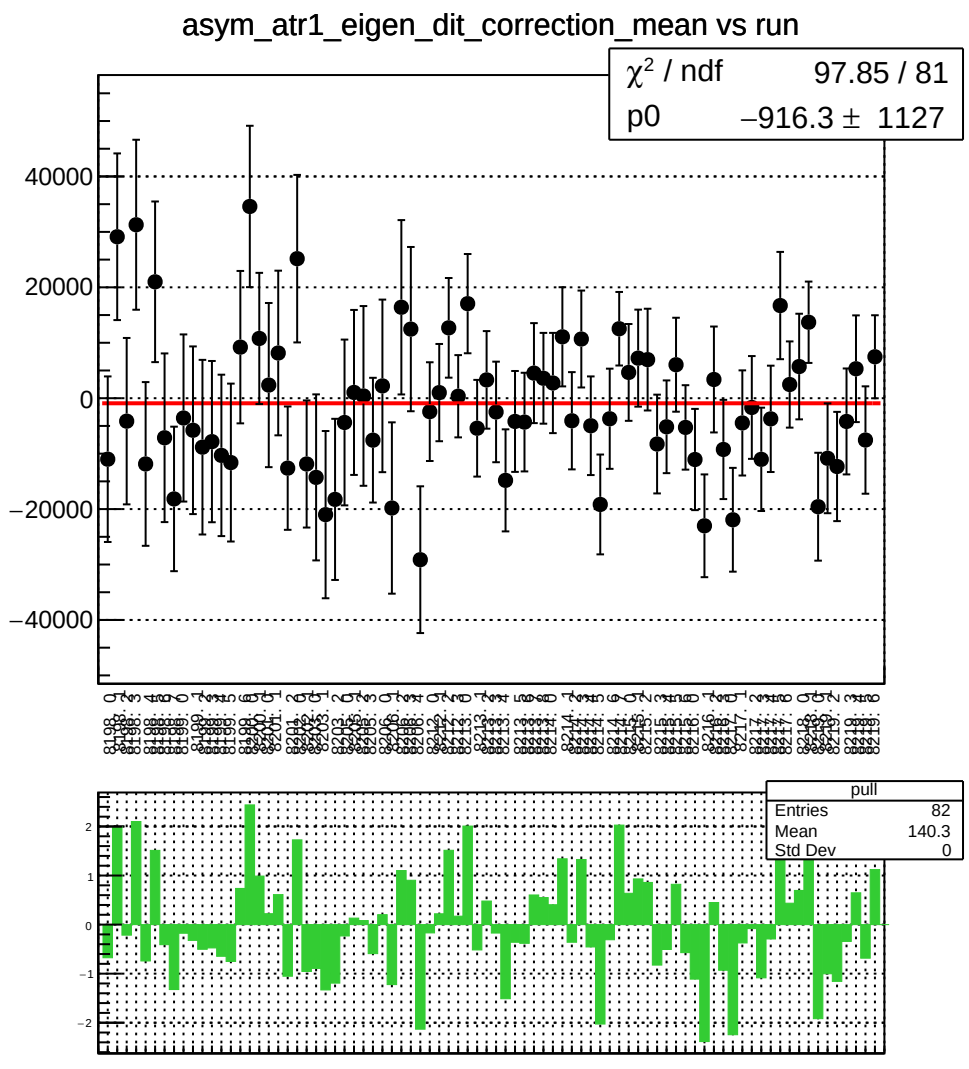

pull1D
Entries 82
Mean −0.02183
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

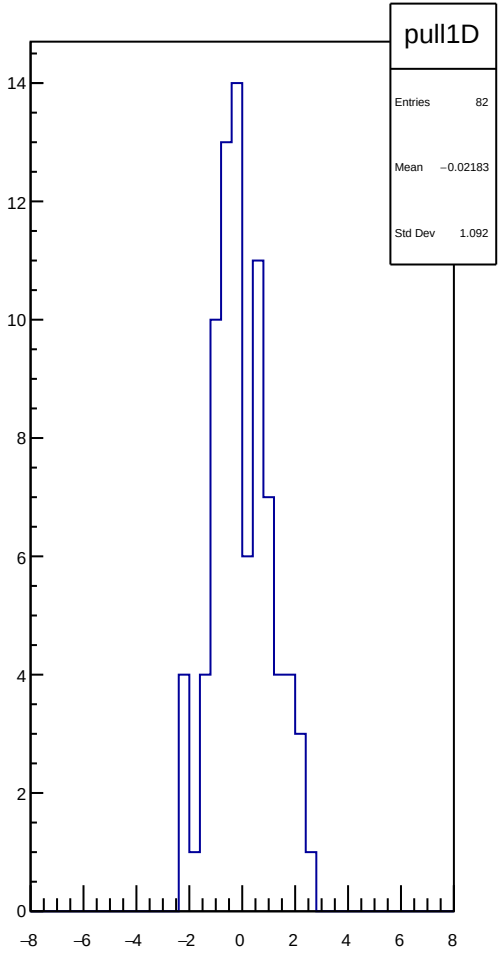

asym_atr1_dit_correction_rms vs run
χ² / ndf 8.554e+04 / 81
p0 987.9 ± 0.7972
1600
1500
1400
1300
1200
1100
1000
900
800

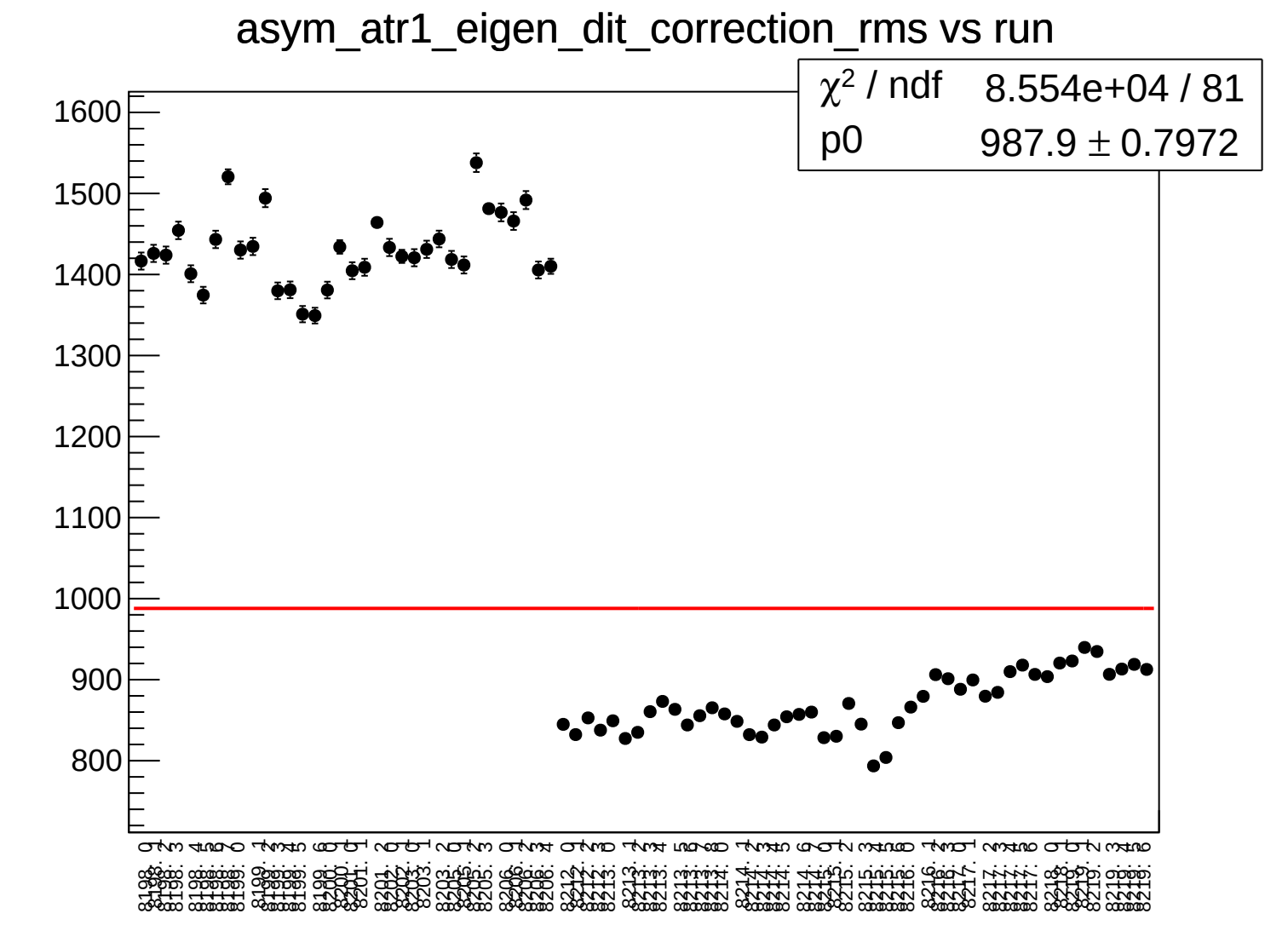

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 69.24 / 81
p0 −3003 ± 3085
100
50
0
−50
−100
pull
Entries 82
Mean −338
Std Dev 0
2
1
0
−1
−2

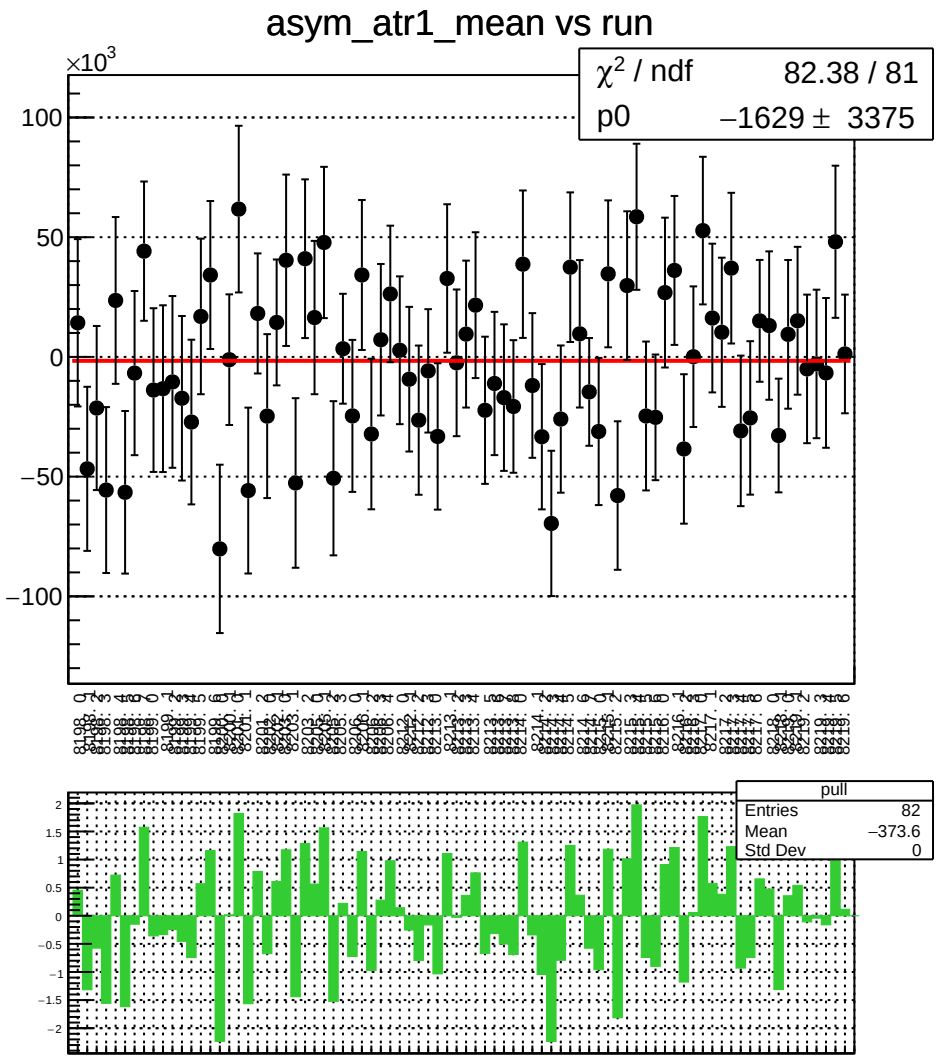

pull1D
Entries 82
Mean −0.006688
Std Dev 0.9189
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

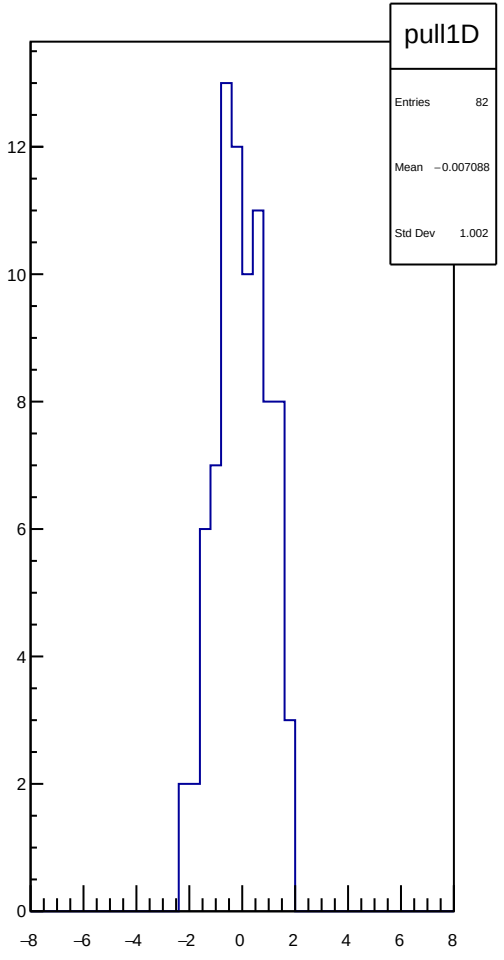

eigen_dit_asym_atr1_rms vs run
χ² / ndf 209.8 / 81
p0 2777 ± 2.181
2900
2850
2800
2750
2700


asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 97.85 / 81
p0 −916.3 ± 1127
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 140.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 82
Mean −0.02183
Std Dev 1.092
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 8.554e+04 / 81
p0 987.9 ± 0.7972
1600
1500
1400
1300
1200
1100
1000
900
800


asym_atr1_mean vs run
×10^3
χ² / ndf 82.38 / 81
p0 −1629 ± 3375
100
50
0
−50
−100
pull
Entries 82
Mean −373.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.007088
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
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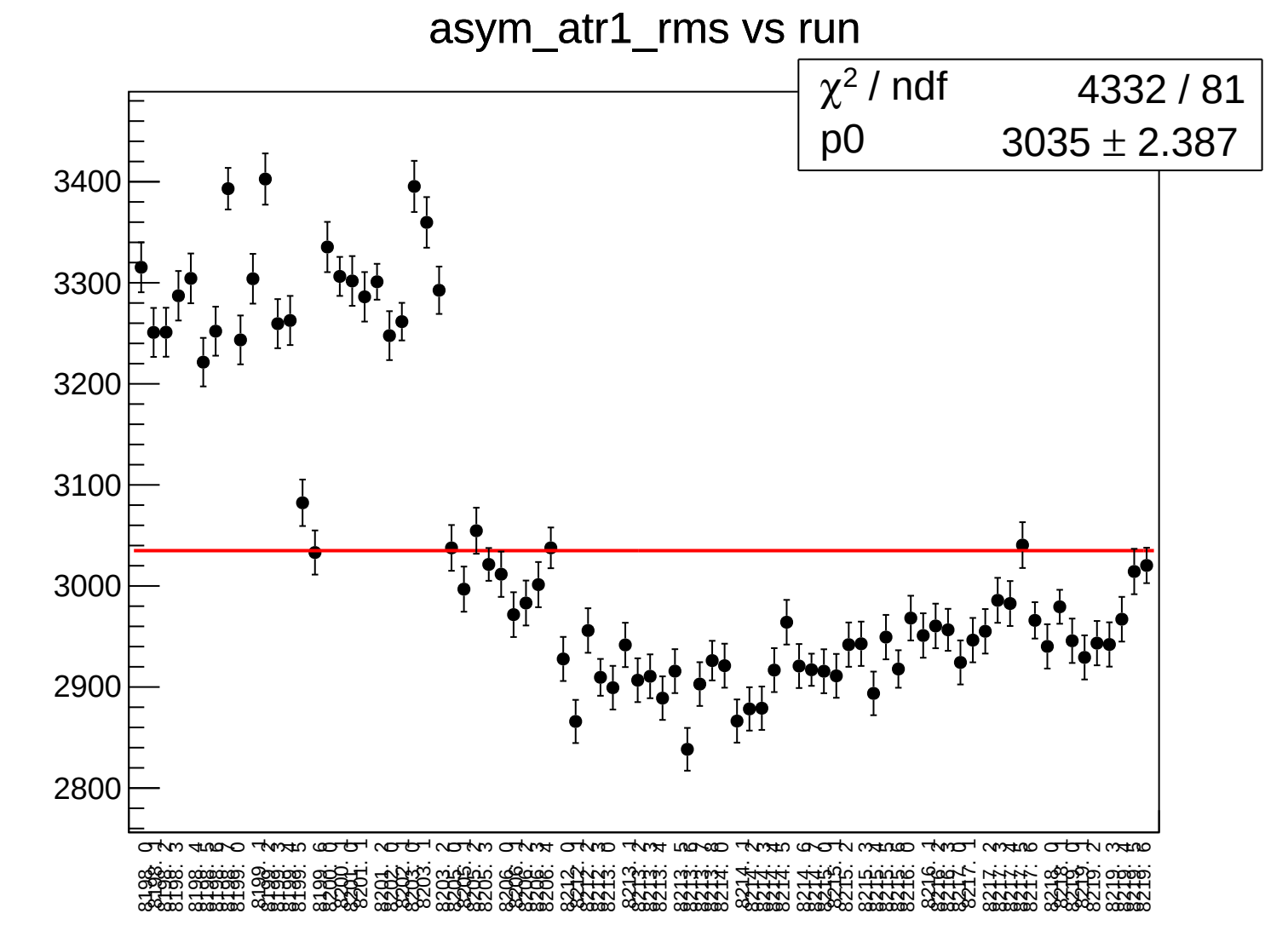
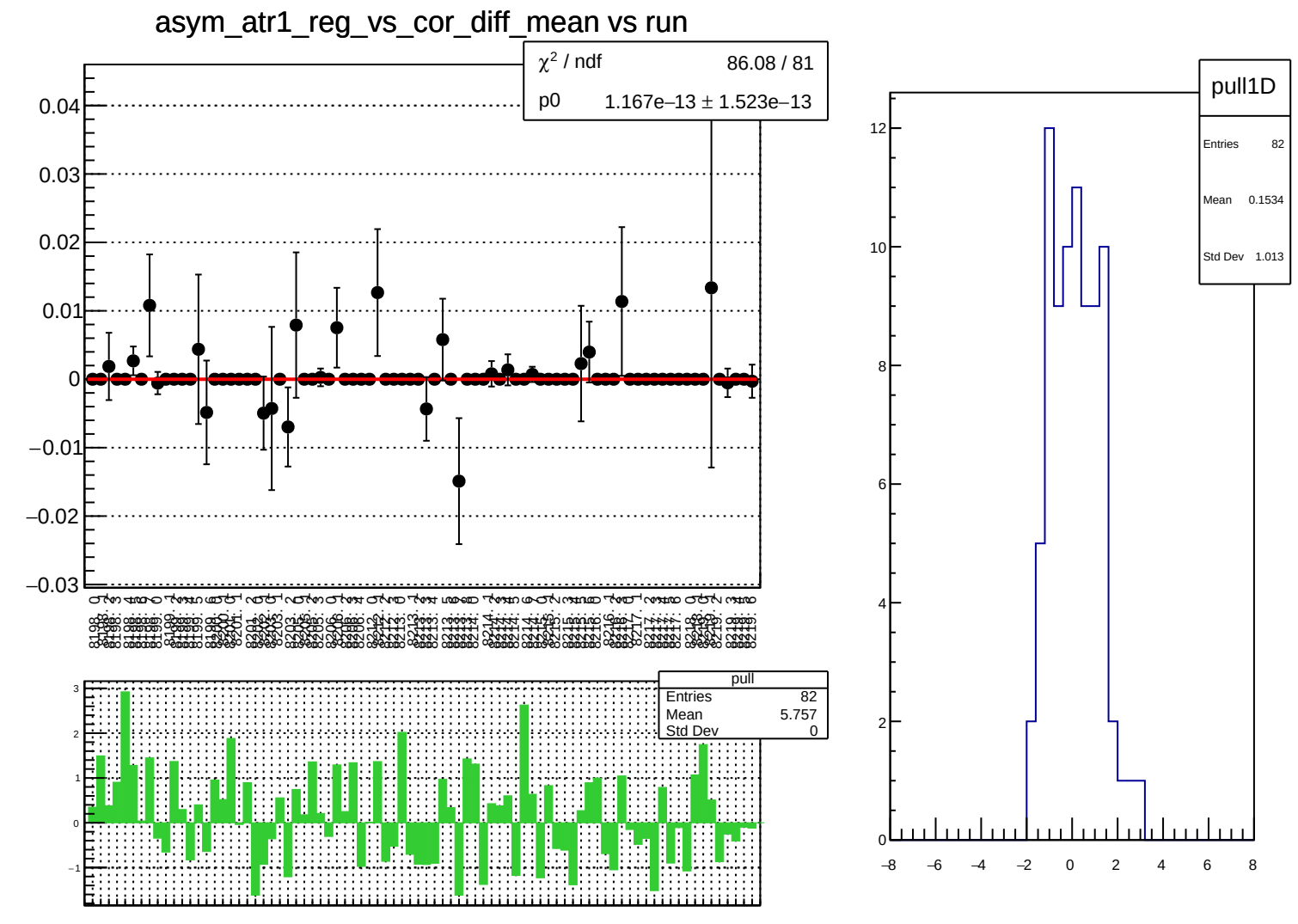
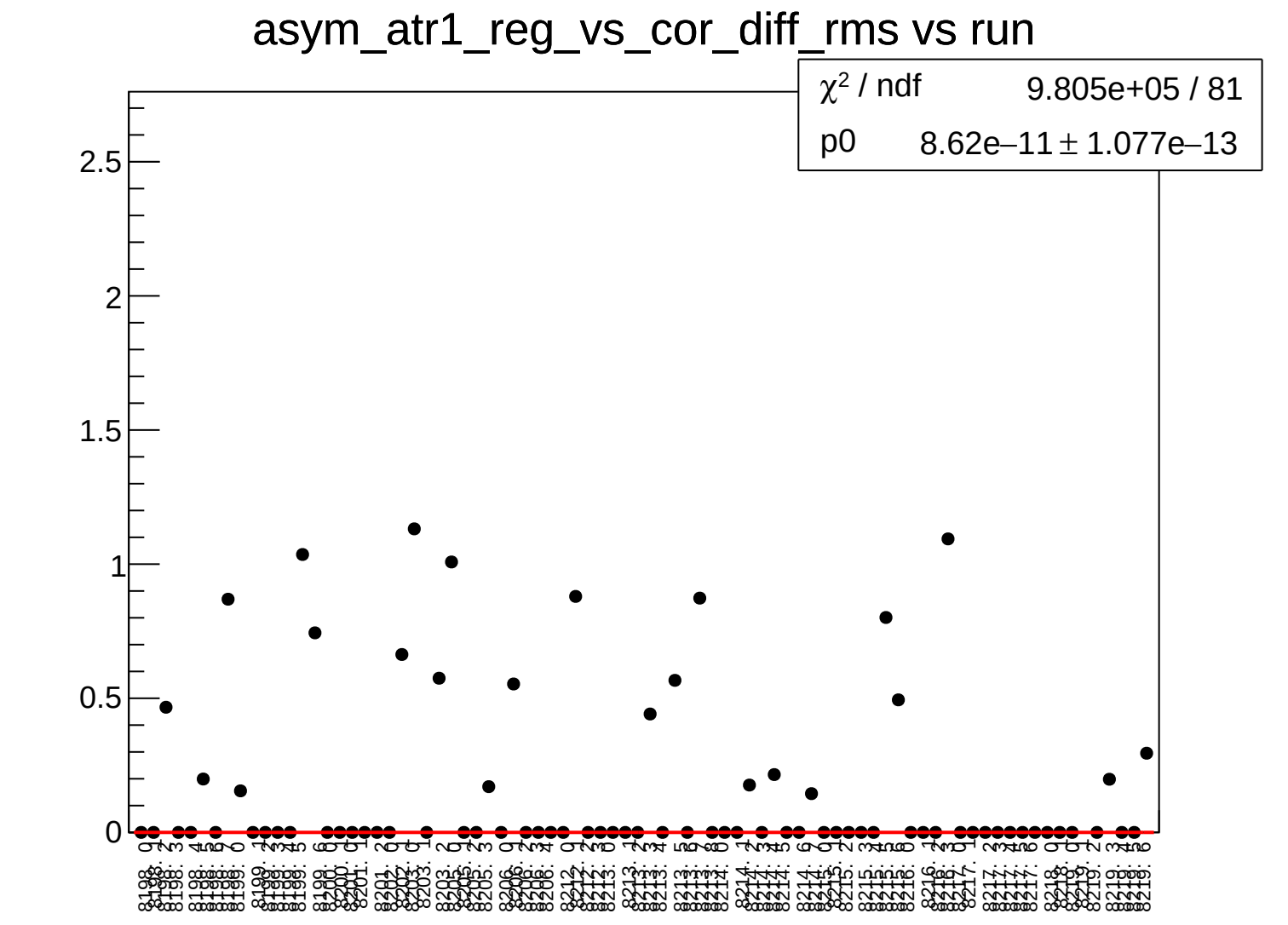
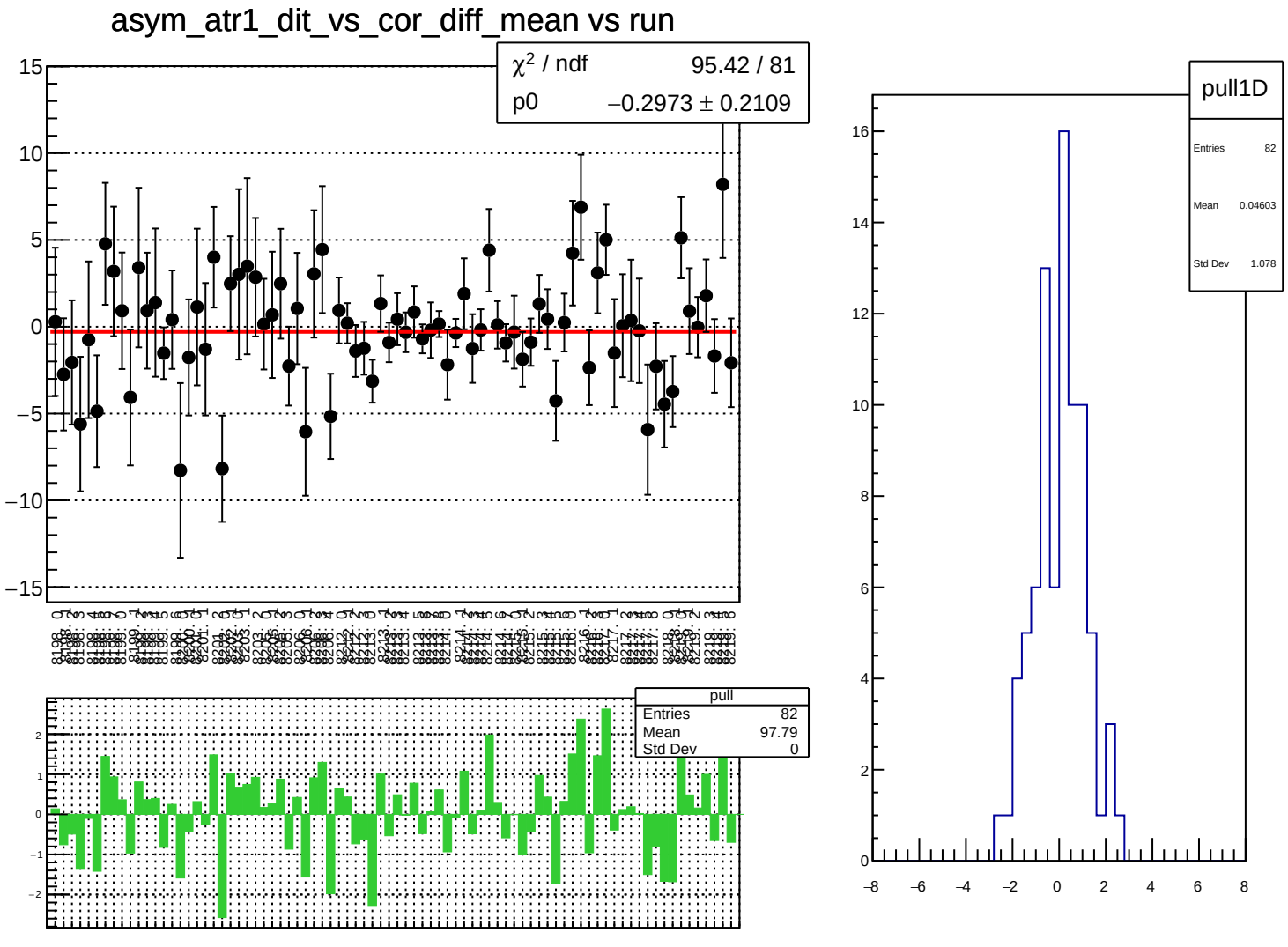
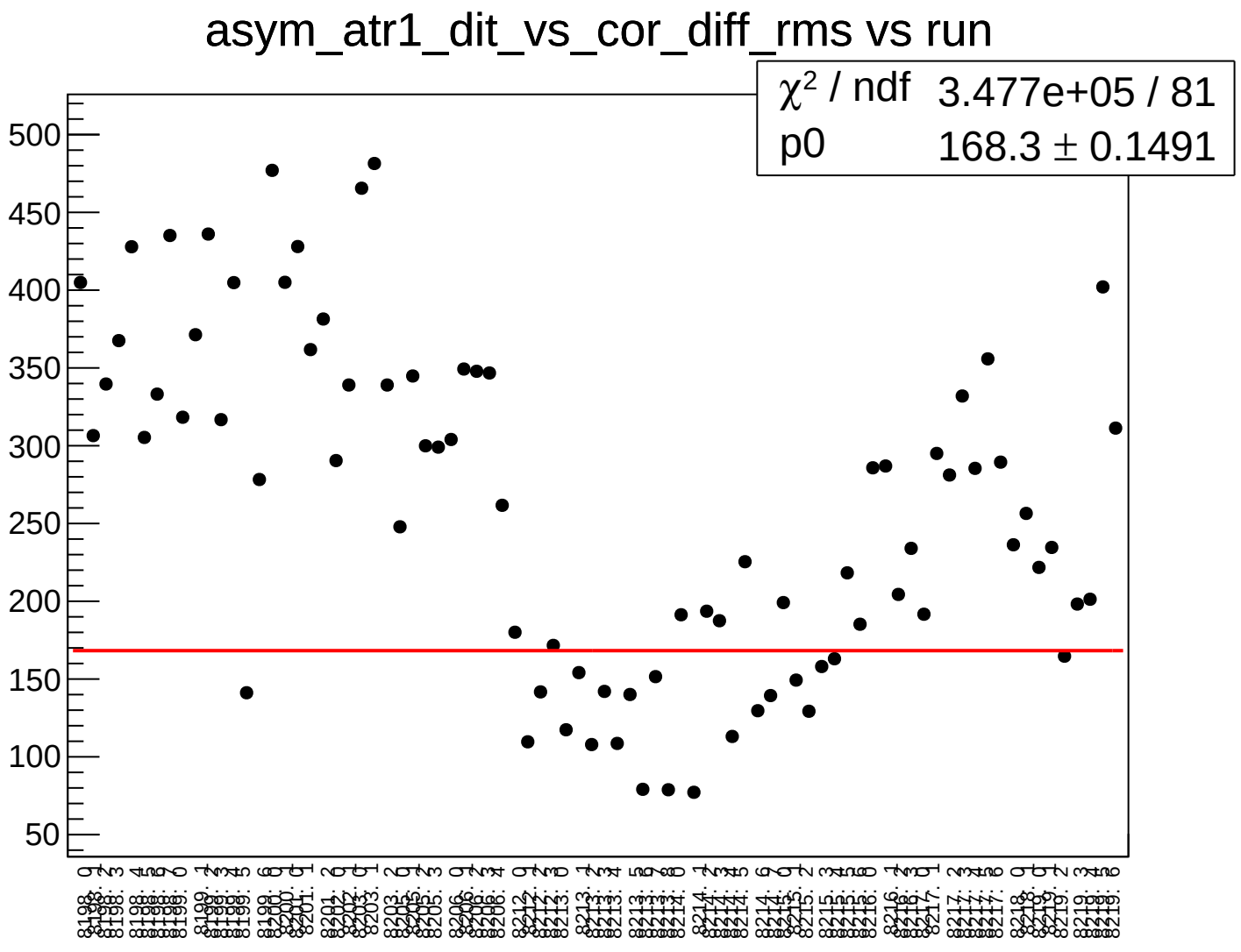
0
2
4
6
8

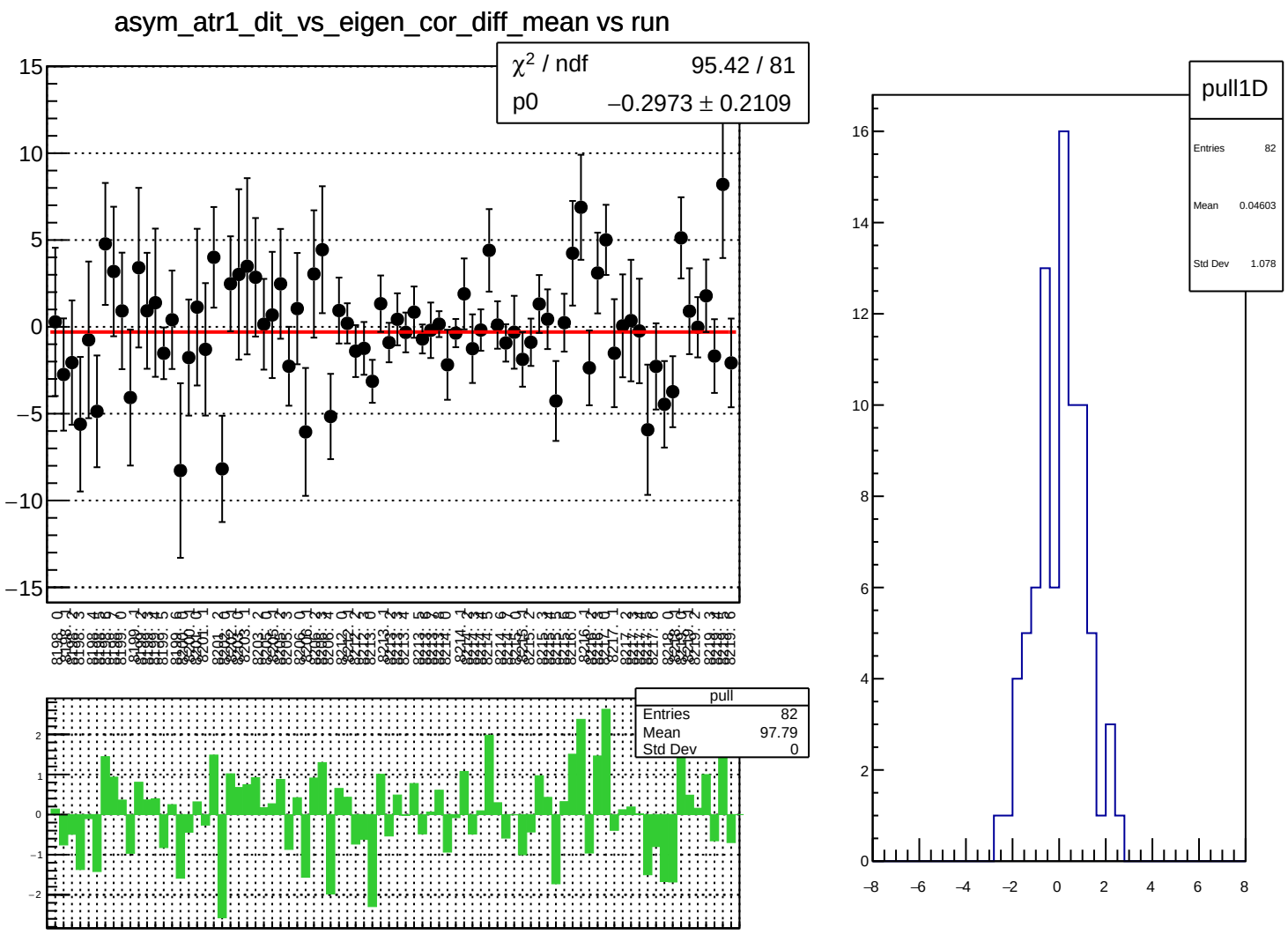

asym_atr1_rms vs run
$\chi^2$ / ndf 4332 / 81
p0 3035 ± 2.387
3400
3300
3200
3100
3000
2900
2800

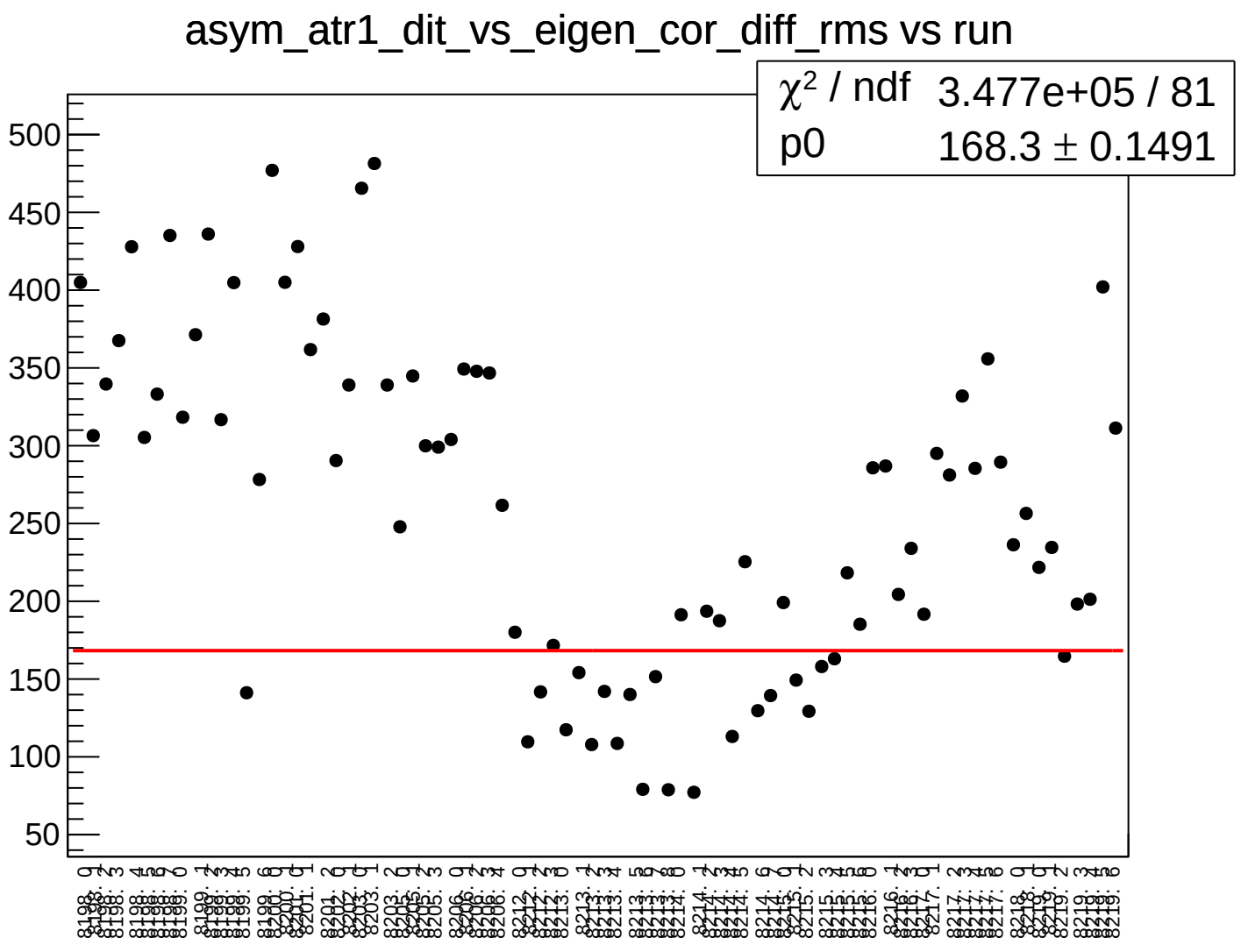

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 86.08 / 81
p0 1.167e−13 ± 1.523e−13
pull
Entries 82
Mean 5.757
Std Dev 0
pull1D
Entries 82
Mean 0.1534
Std Dev 1.013

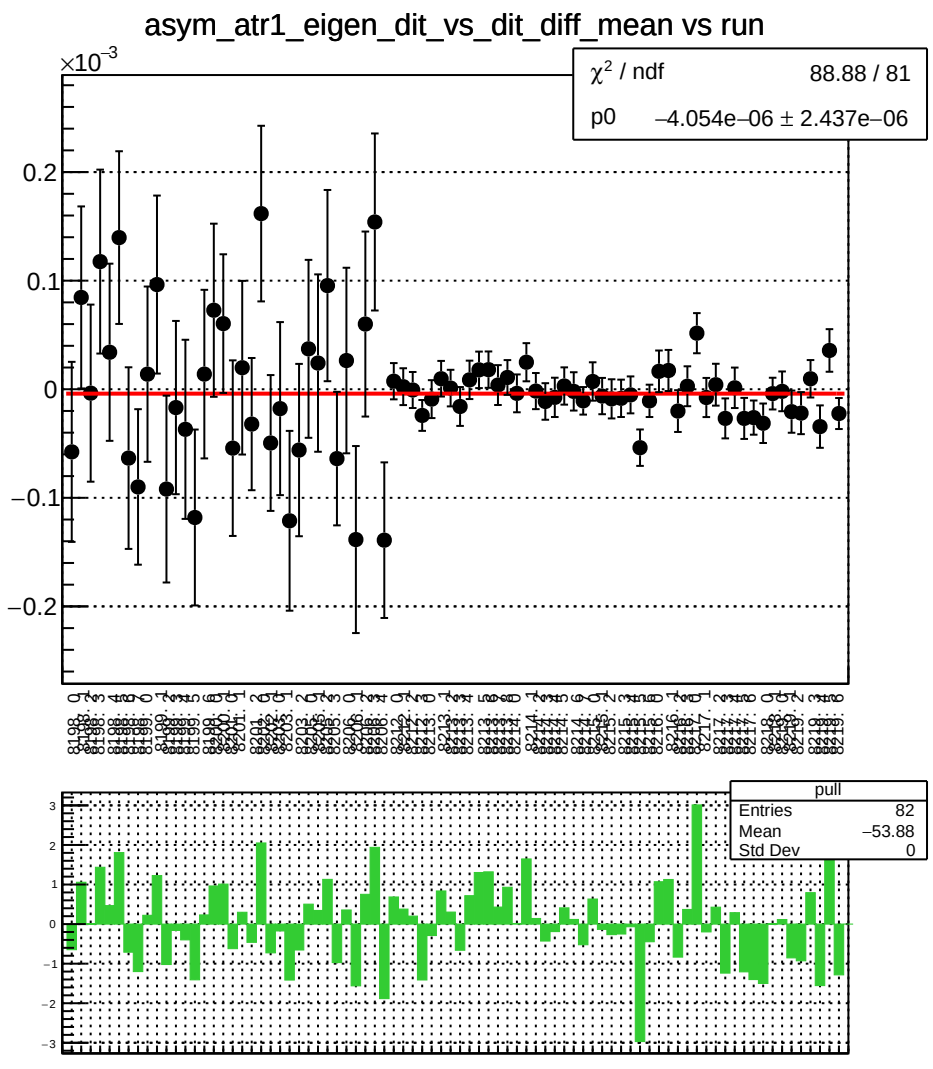

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.805e+05 / 81
p0 8.62e−11 ± 1.077e−13
2.5
2
1.5
1
0.5
0

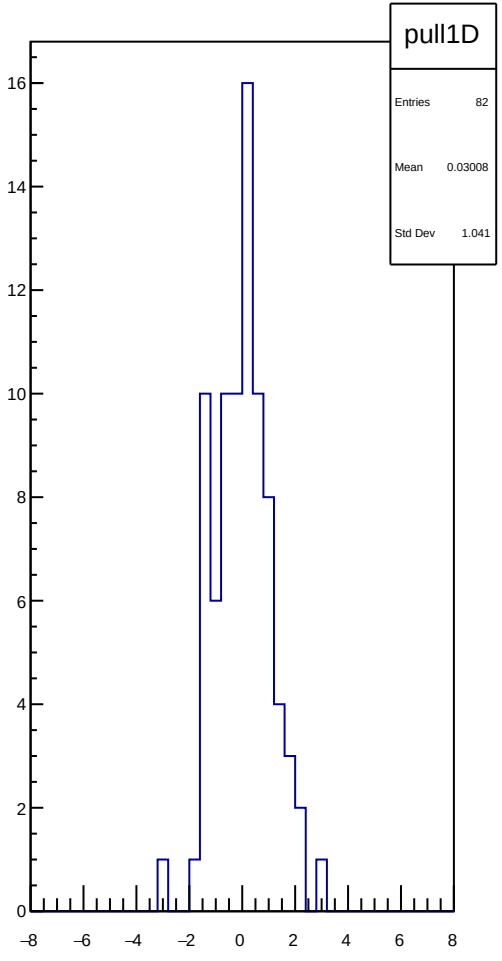

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 95.42 / 81
p0 −0.2973 ± 0.2109
pull
Entries 82
Mean 97.79
Std Dev 0
pull1D
Entries 82
Mean 0.04603
Std Dev 1.078

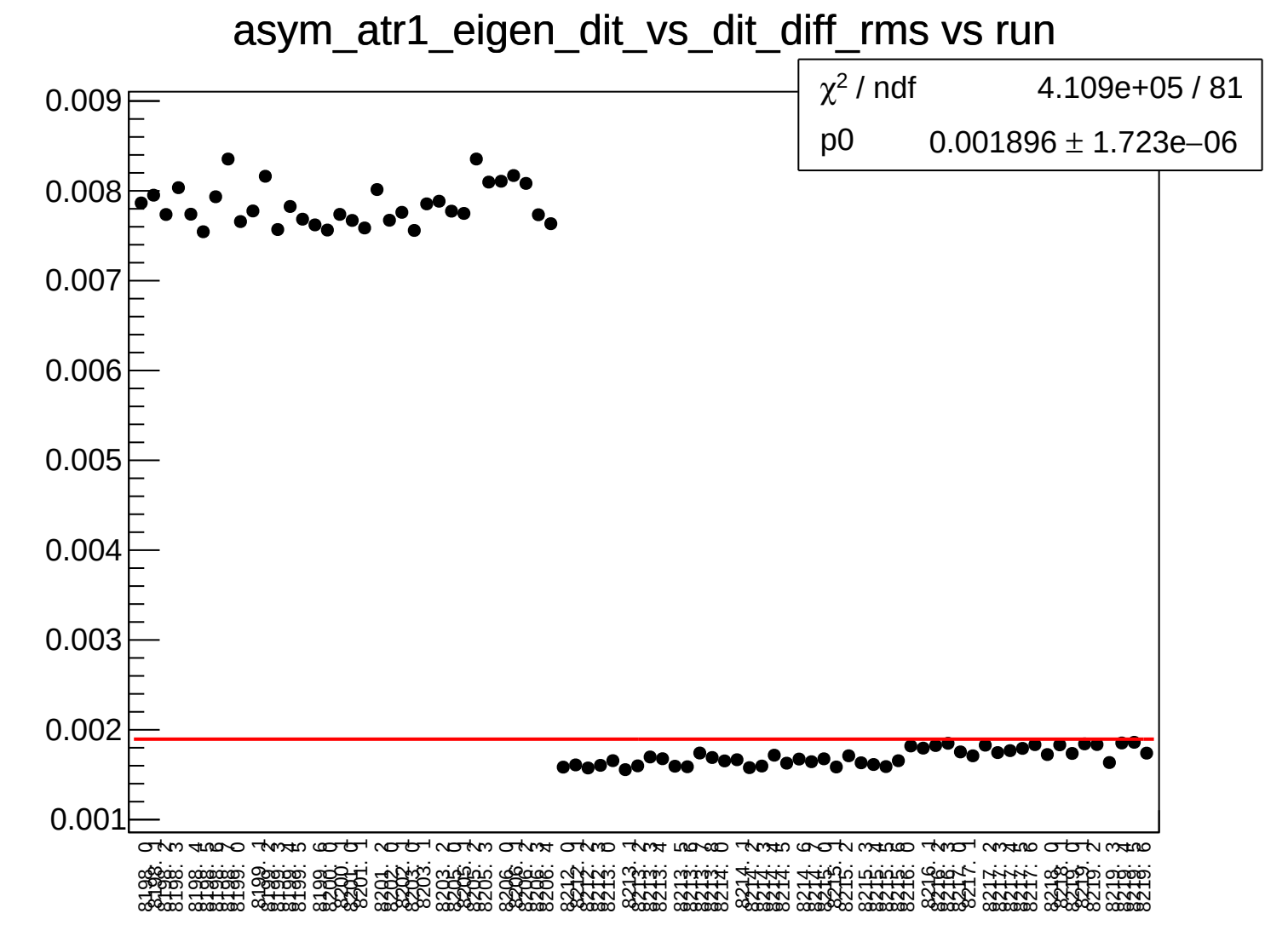

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.477e+05 / 81
p0 168.3 ± 0.1491
500
450
400
350
300
250
200
150
100
50

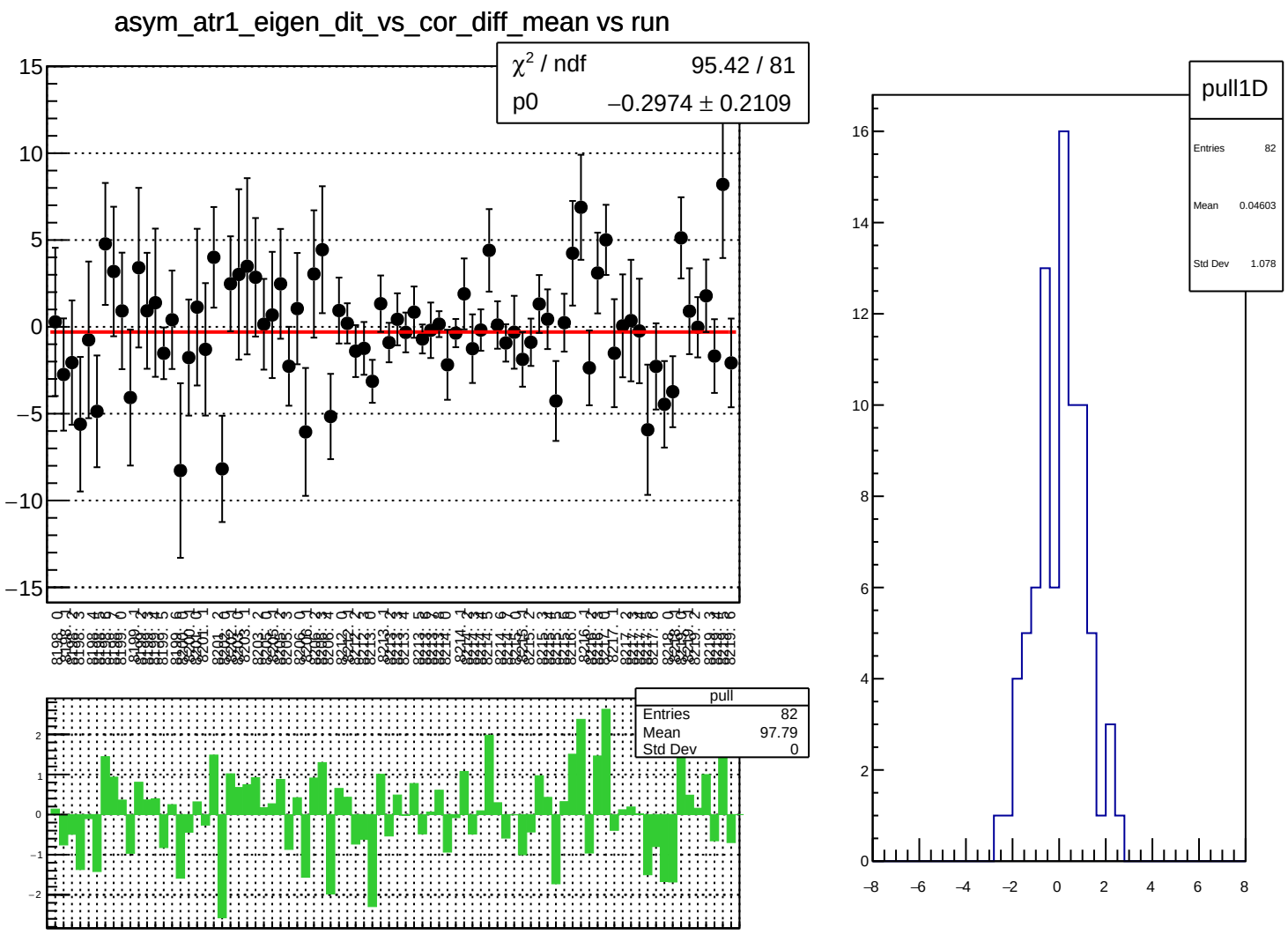

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.42 / 81
p0 −0.2973 ± 0.2109
pull
Entries 82
Mean 97.79
Std Dev 0
pull1D
Entries 82
Mean 0.04603
Std Dev 1.078

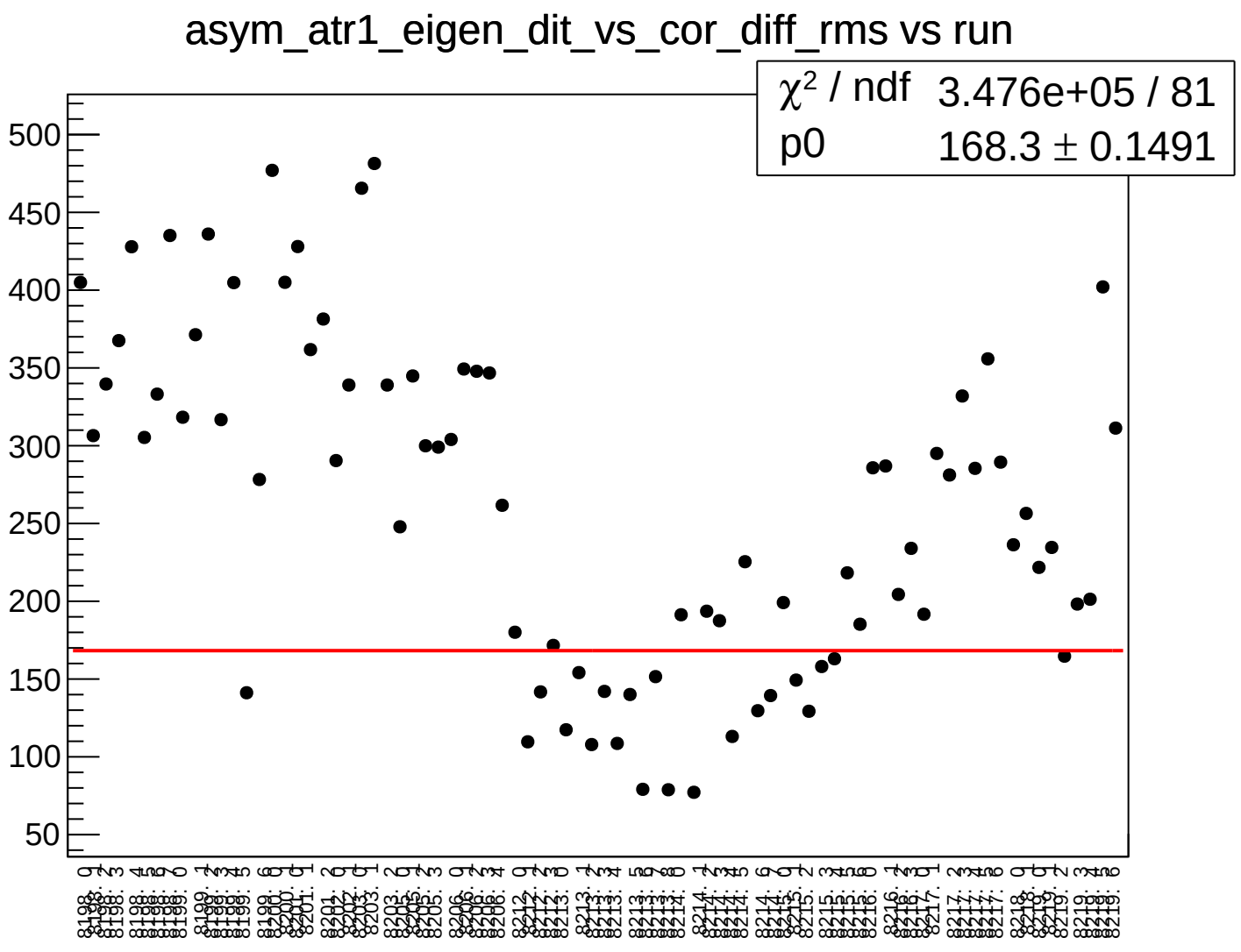

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.477e+05 / 81
p0 168.3 ± 0.1491
500
450
400
350
300
250
200
150
100
50

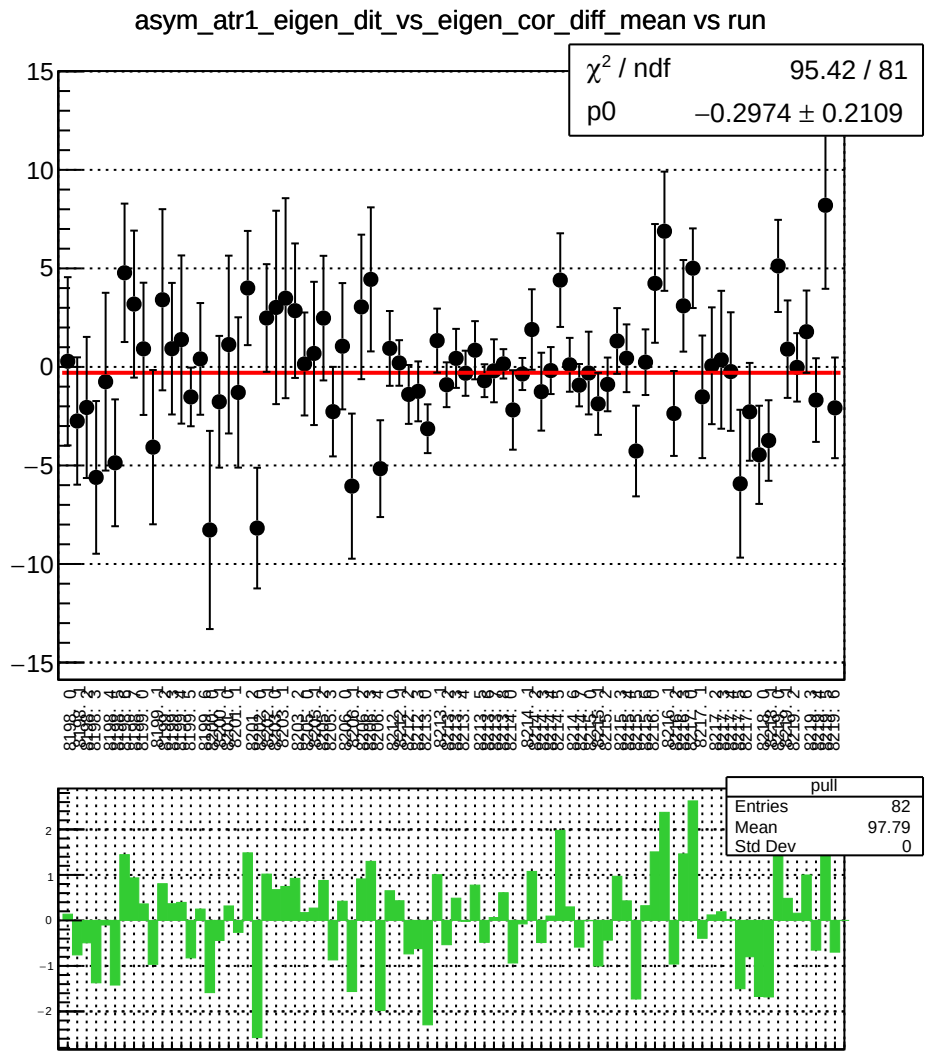

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.88 / 81
p0 −4.054e−06 ± 2.437e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 82
Mean −53.88
Std Dev 0
3
2
1
0
−1
−2
−3

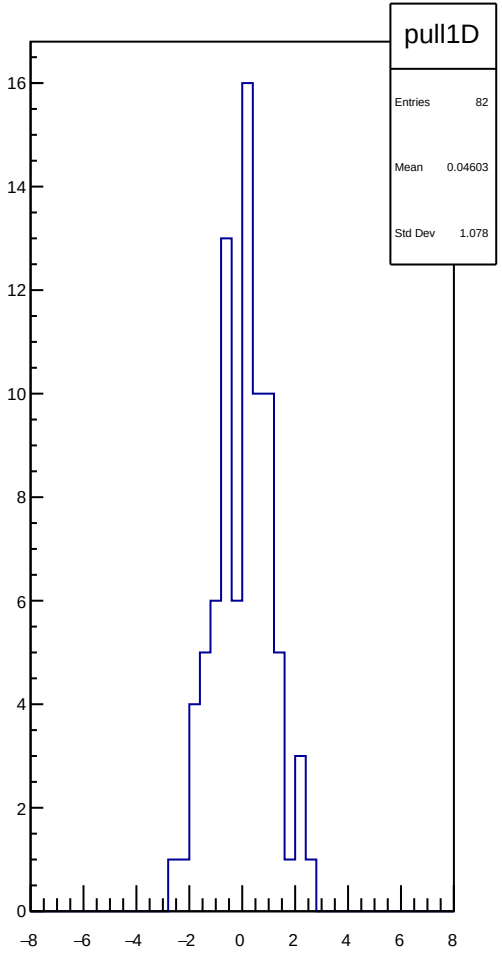

pull1D
Entries 82
Mean 0.03008
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

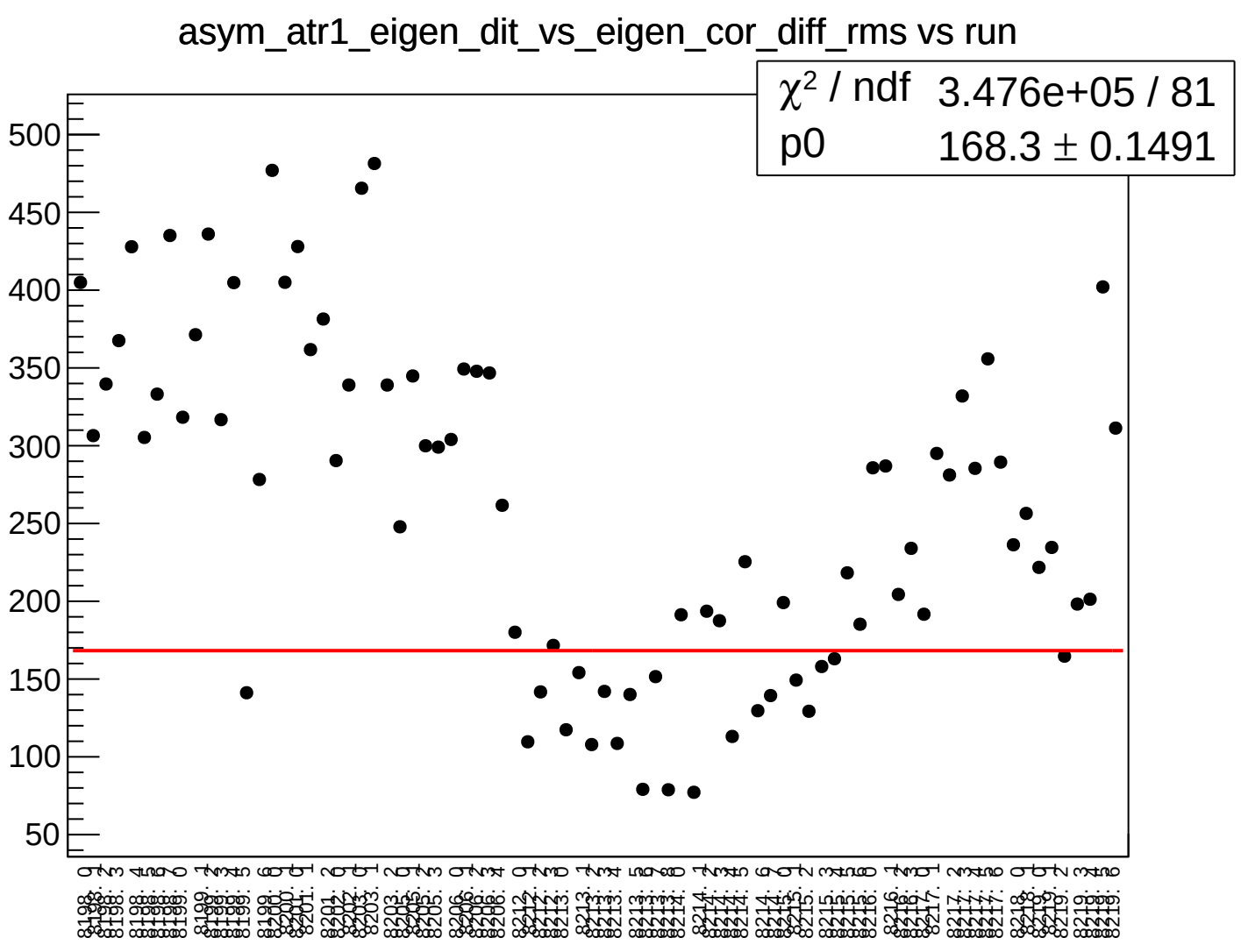

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.109e+05 / 81
p0 0.001896 ± 1.723e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

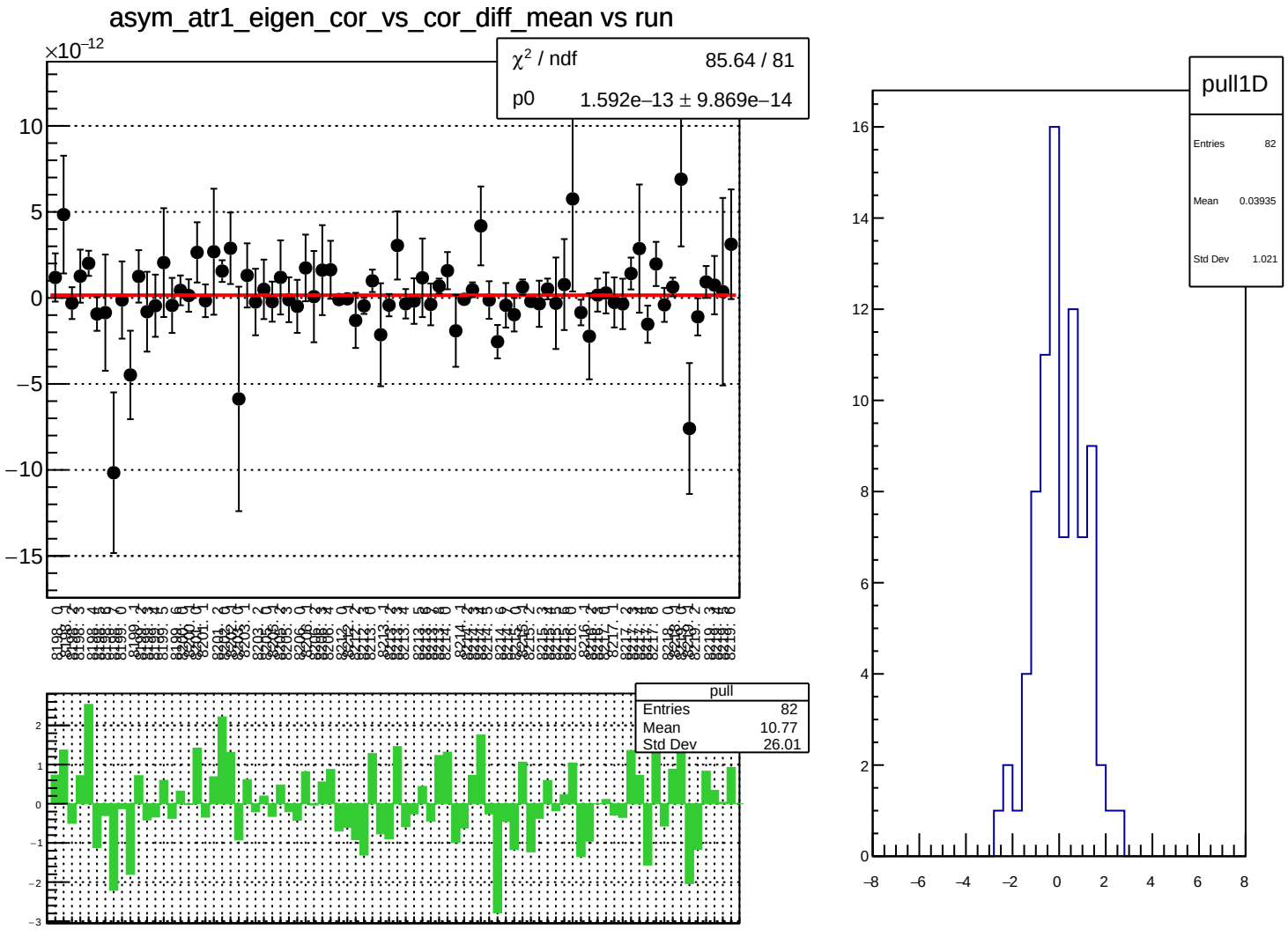

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.42 / 81
p0 −0.2974 ± 0.2109
pull
Entries 82
Mean 97.79
Std Dev 0
pull1D
Entries 82
Mean 0.04603
Std Dev 1.078

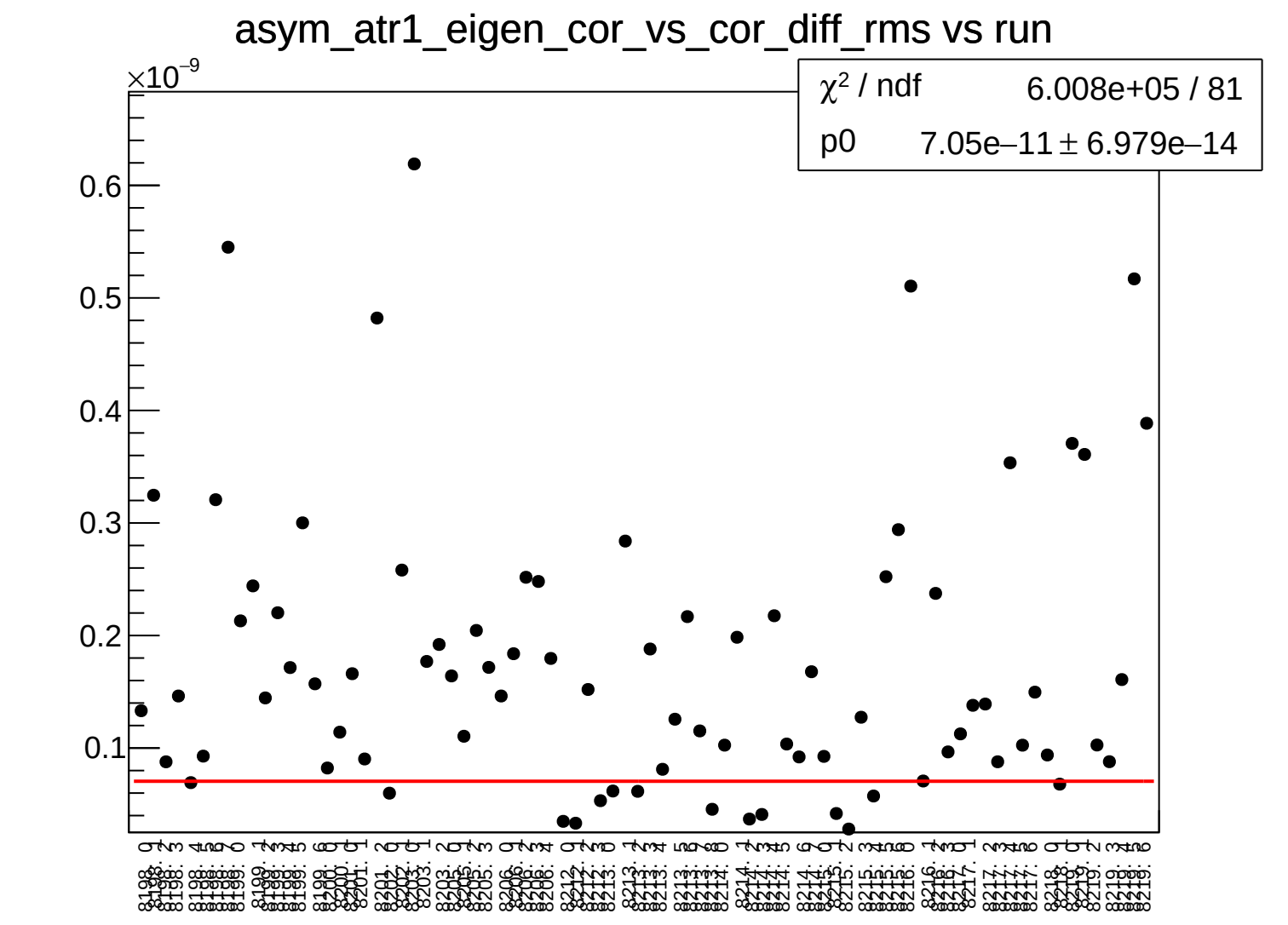

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.476e+05 / 81
p0 168.3 ± 0.1491
500
450
400
350
300
250
200
150
100
50

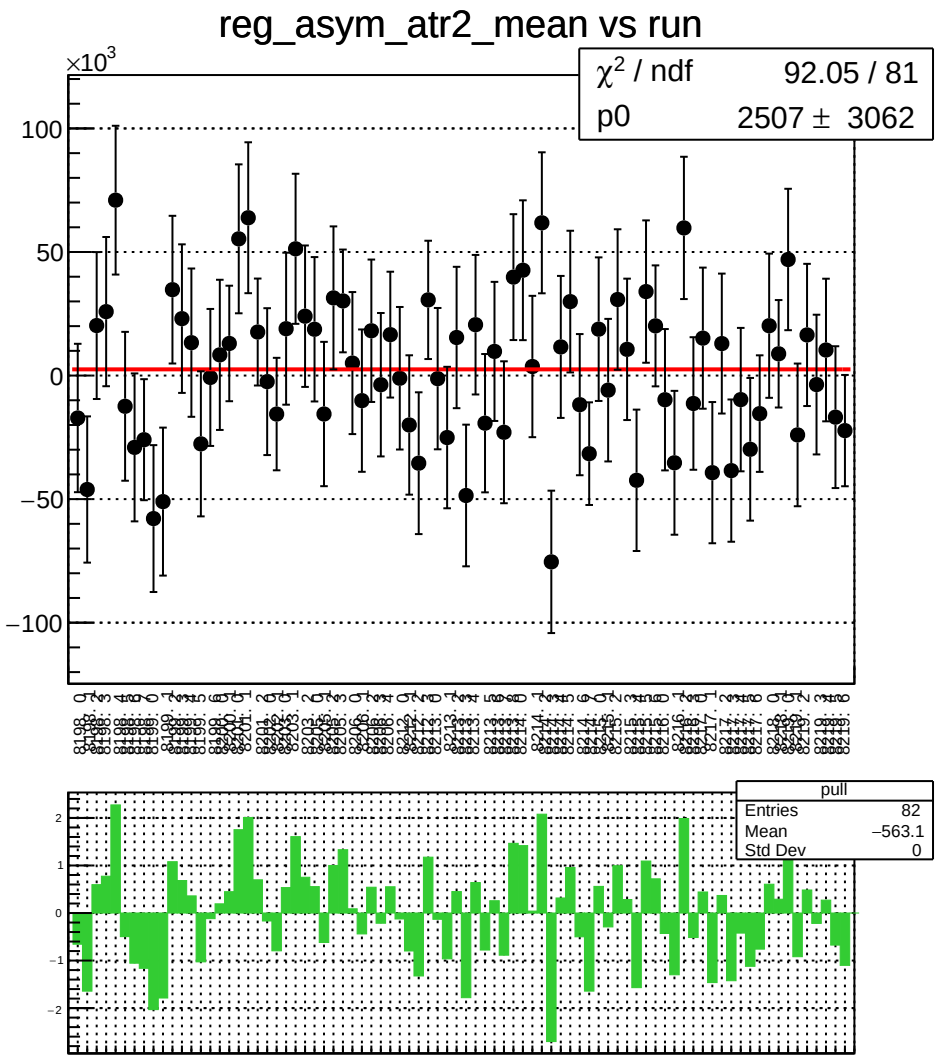

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.42 / 81
p0 −0.2974 ± 0.2109
pull
Entries 82
Mean 97.79
Std Dev 0

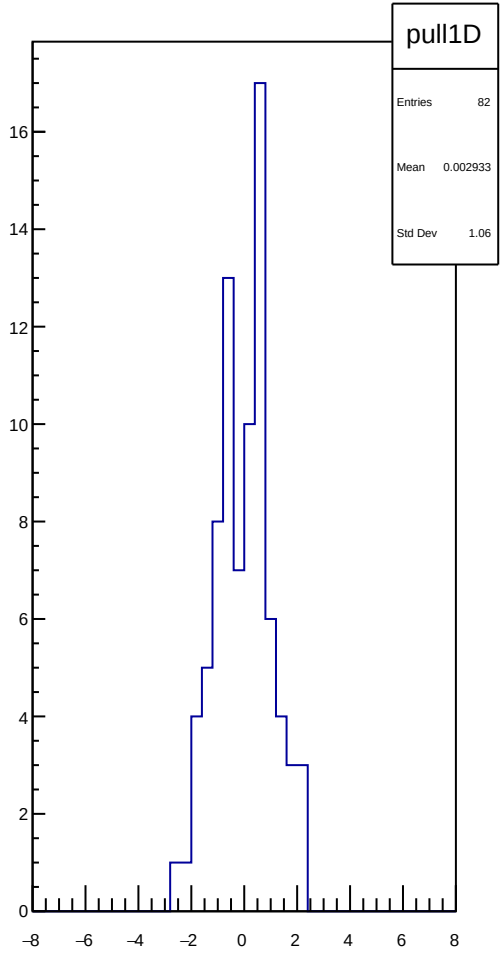

pull1D
Entries 82
Mean 0.04603
Std Dev 1.078

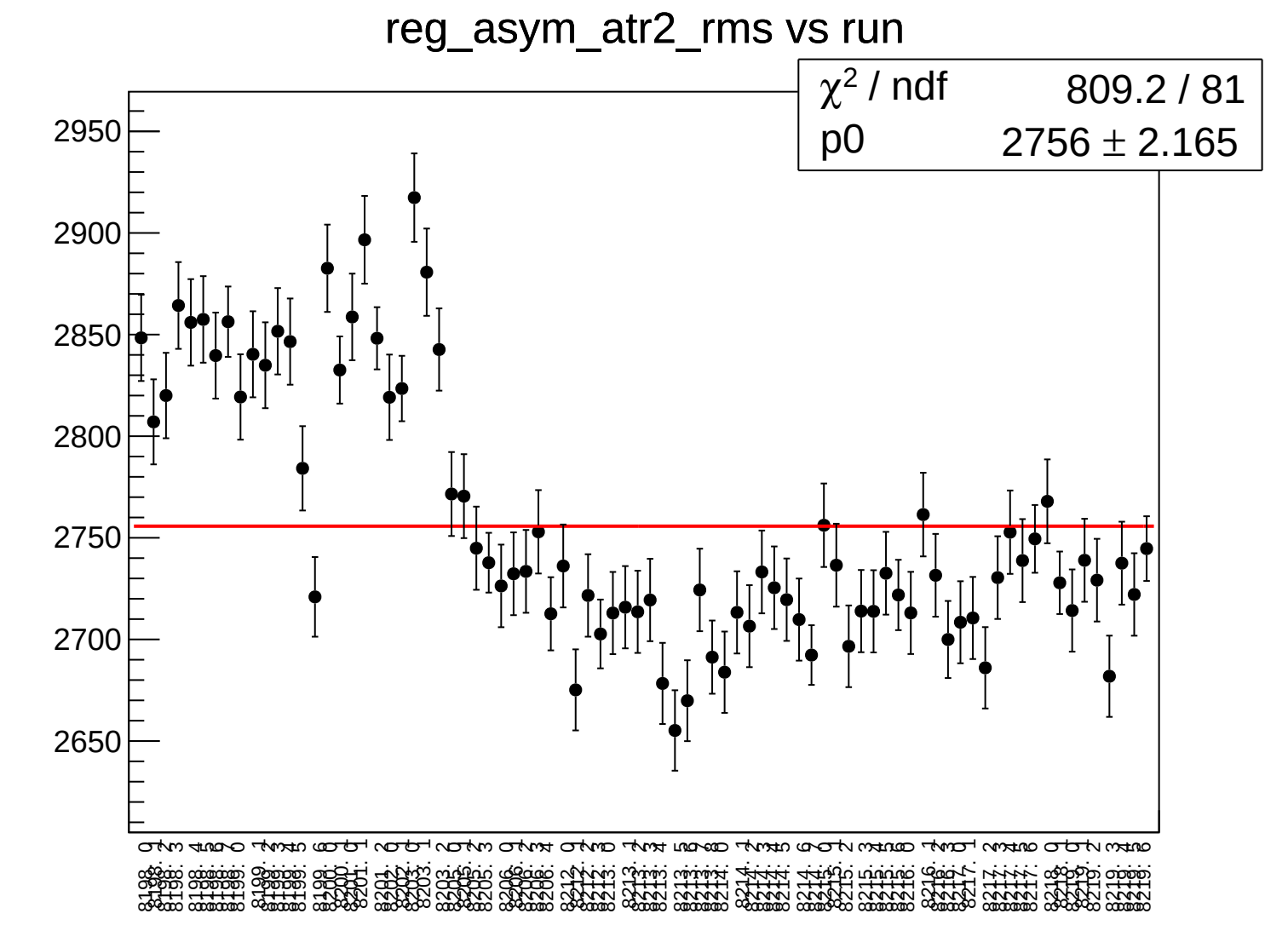

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.476e+05 / 81
p0 168.3 ± 0.1491
500
450
400
350
300
250
200
150
100
50

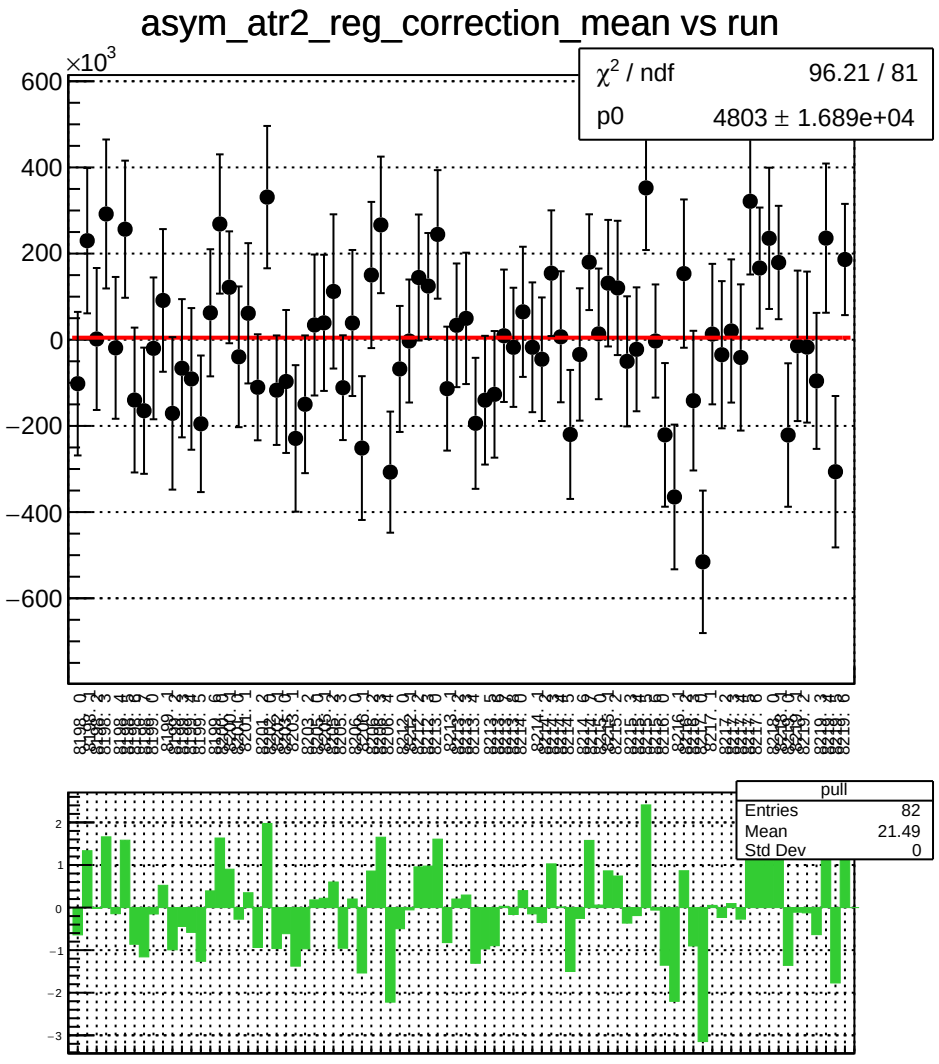

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.64 / 81
p0 1.592e−13 ± 9.869e−14
pull
Entries 82
Mean 10.77
Std Dev 26.01
pull1D
Entries 82
Mean 0.03935
Std Dev 1.021

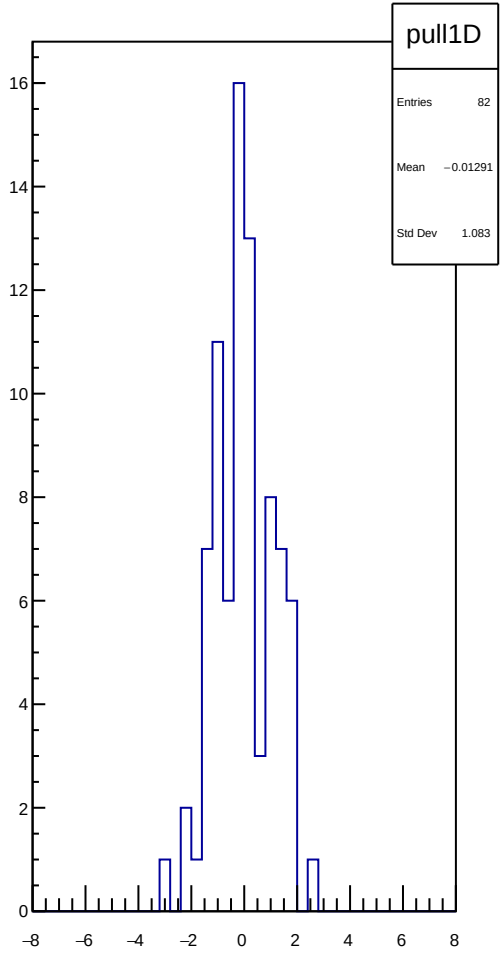

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.008e+05 / 81
p0 7.05e−11 ± 6.979e−14
0.6
0.5
0.4
0.3
0.2
0.1

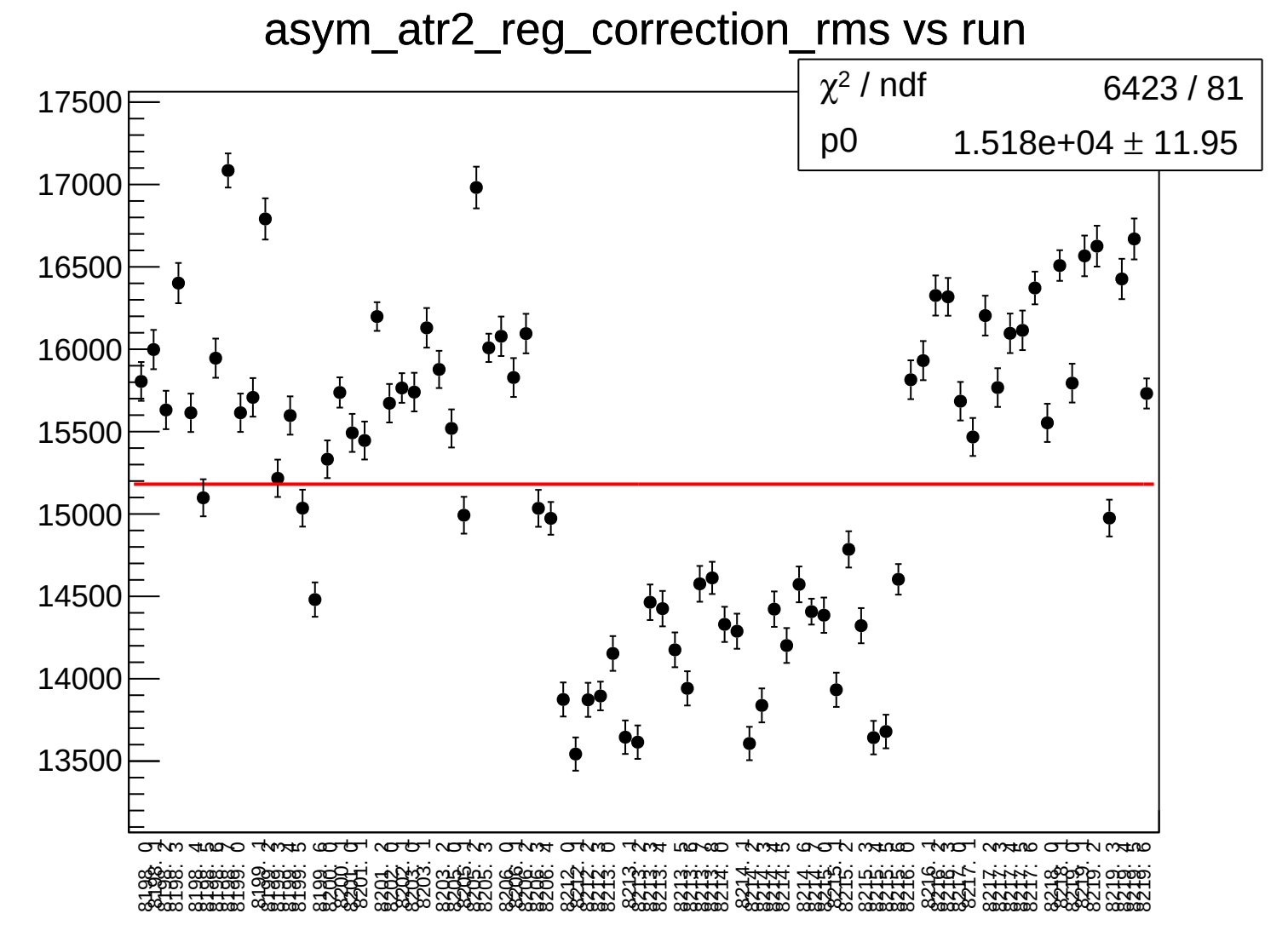

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 92.05 / 81
p0 2507 ± 3062
100
50
0
−50
−100
pull
Entries 82
Mean −563.1
Std Dev 0
2
1
0
−1
−2

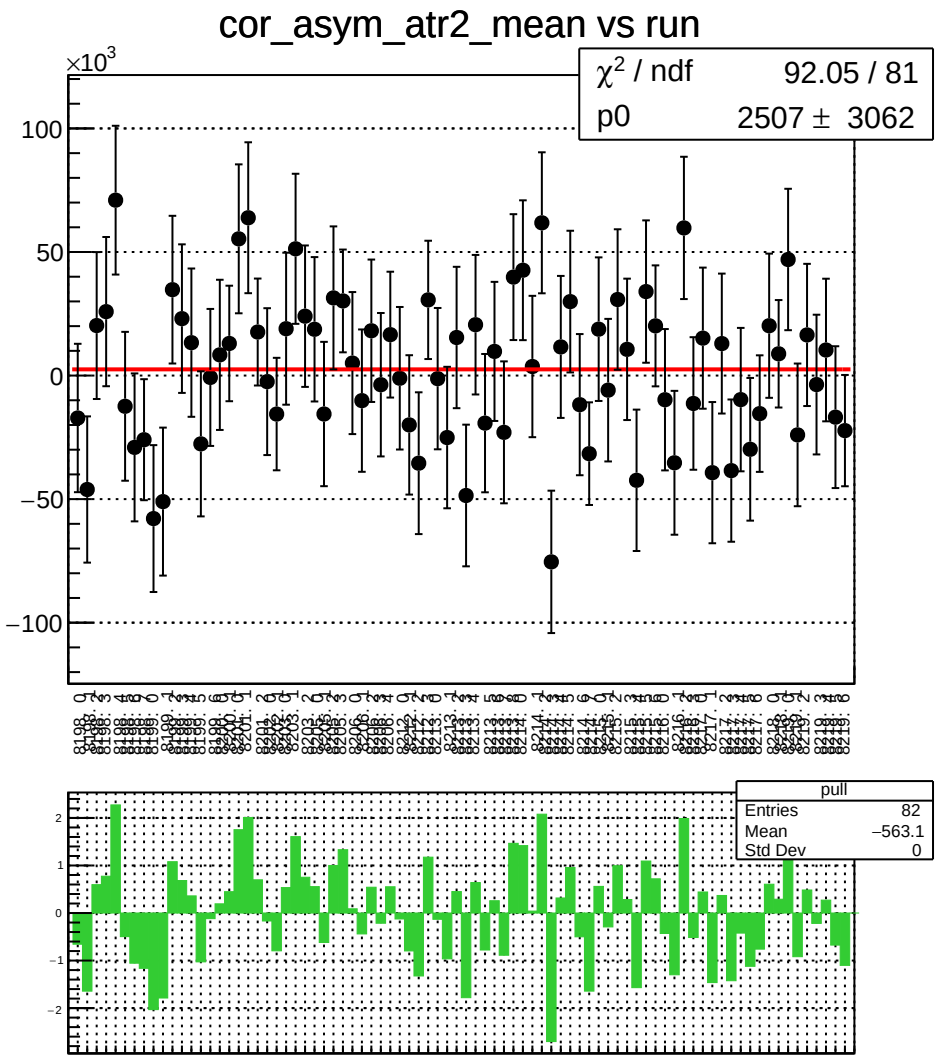

pull1D
Entries 82
Mean 0.002933
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

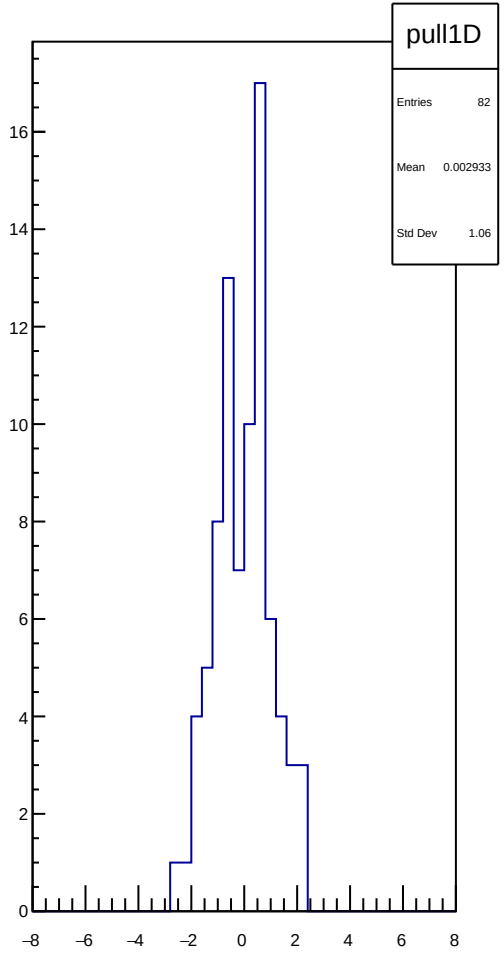

reg_asym_atr2_rms vs run
$\chi^2$ / ndf 809.2 / 81
p0 2756 ± 2.165
2950
2900
2850
2800
2750
2700
2650

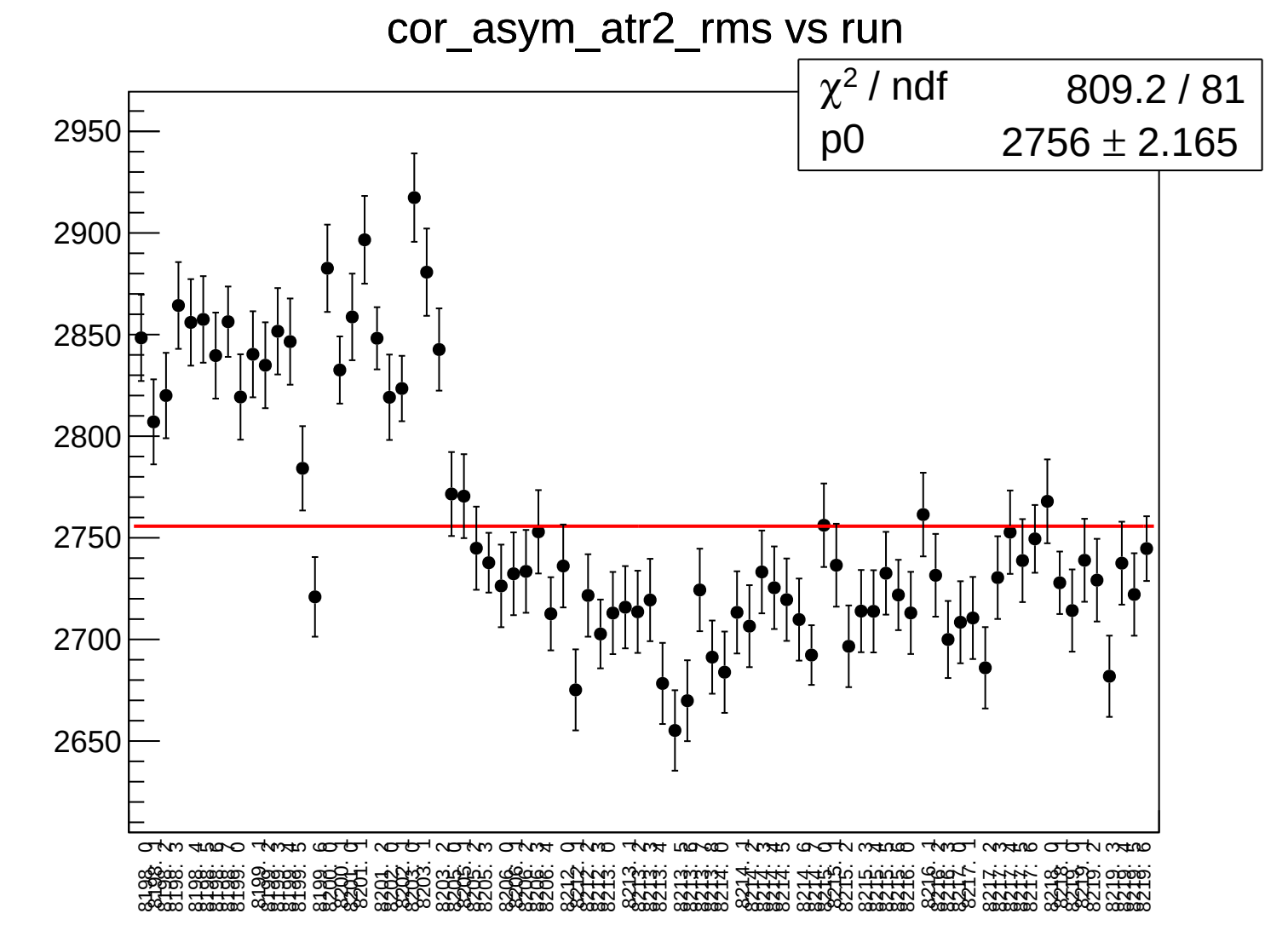

asym_atr2_reg_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 96.21 / 81
p0 4803 ± 1.689e+04
pull
Entries 82
Mean 21.49
Std Dev 0
2
1
0
−1
−2
−3

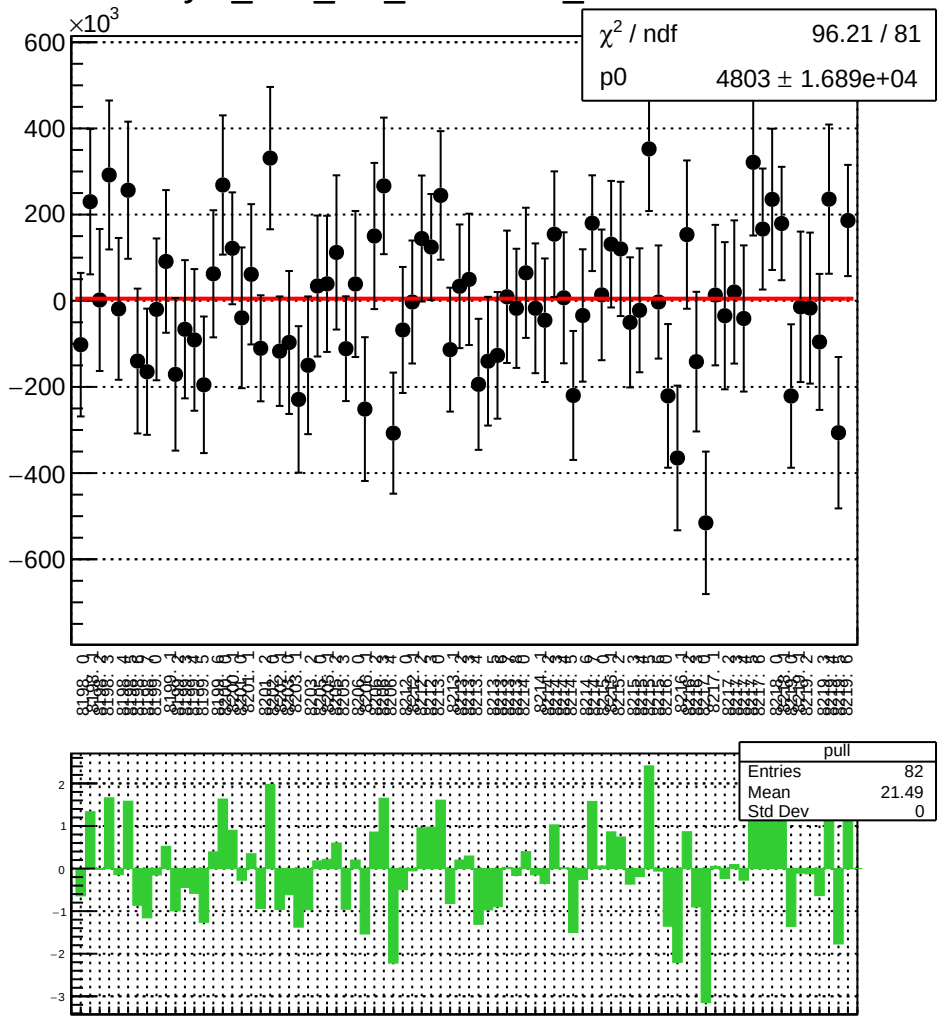

pull1D
Entries 82
Mean −0.01291
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

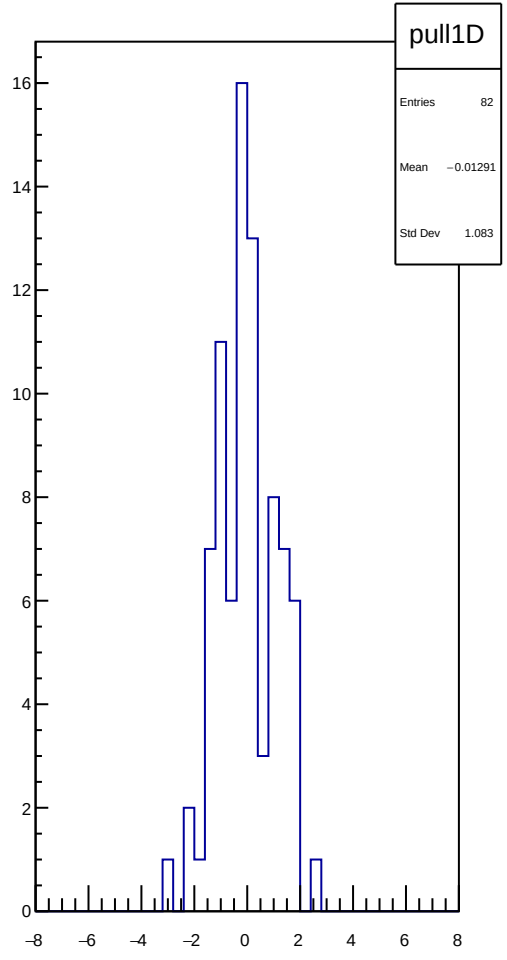

asym_atr2_reg_correction_rms vs run
χ² / ndf 6423 / 81
p0 1.518e+04 ± 11.95
17500
17000
16500
16000
15500
15000
14500
14000
13500

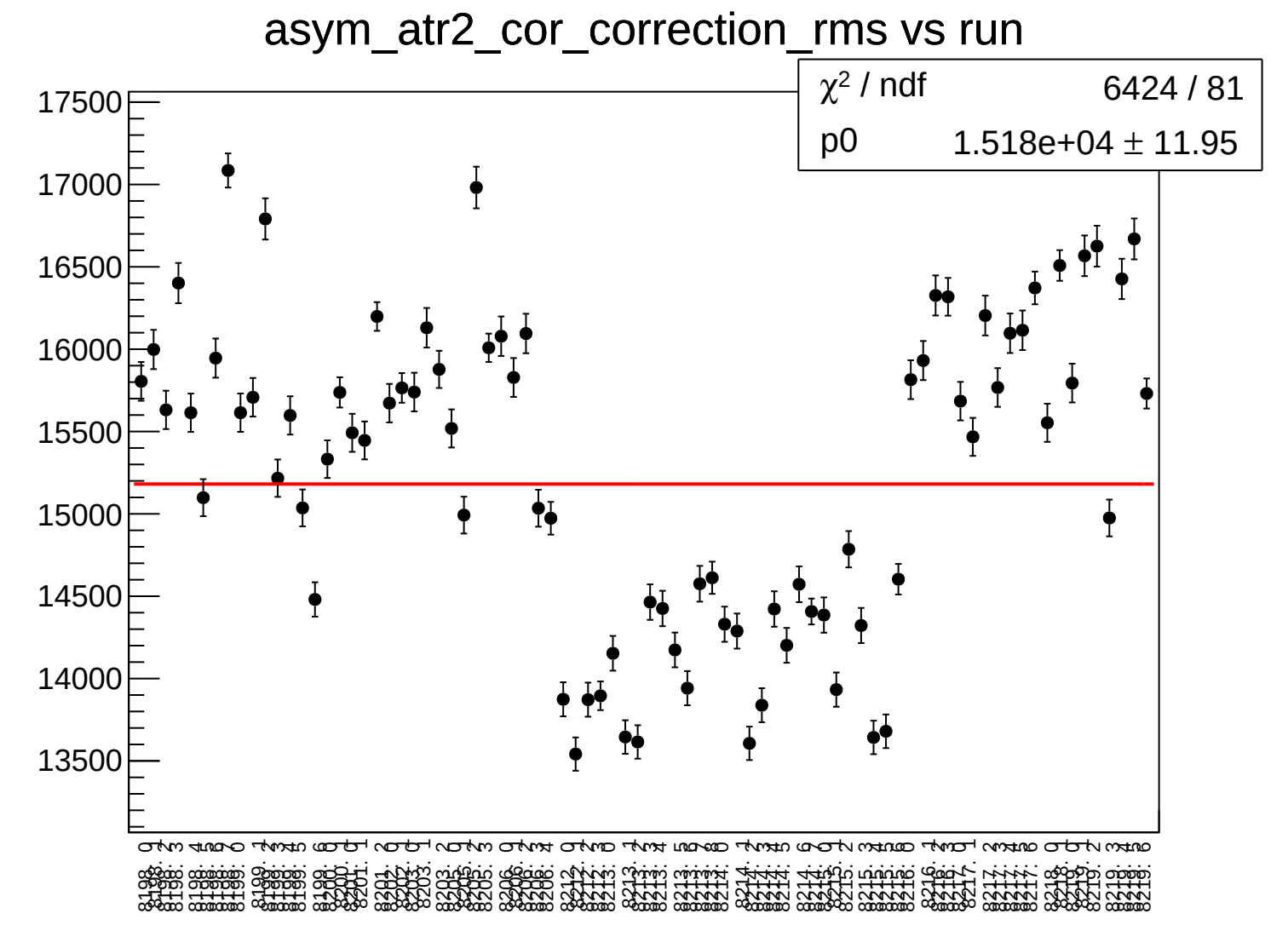

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 92.05 / 81
p0 2507 ± 3062
100
50
0
−50
−100
pull
Entries 82
Mean −563.1
Std Dev 0
2
1
0
−1
−2

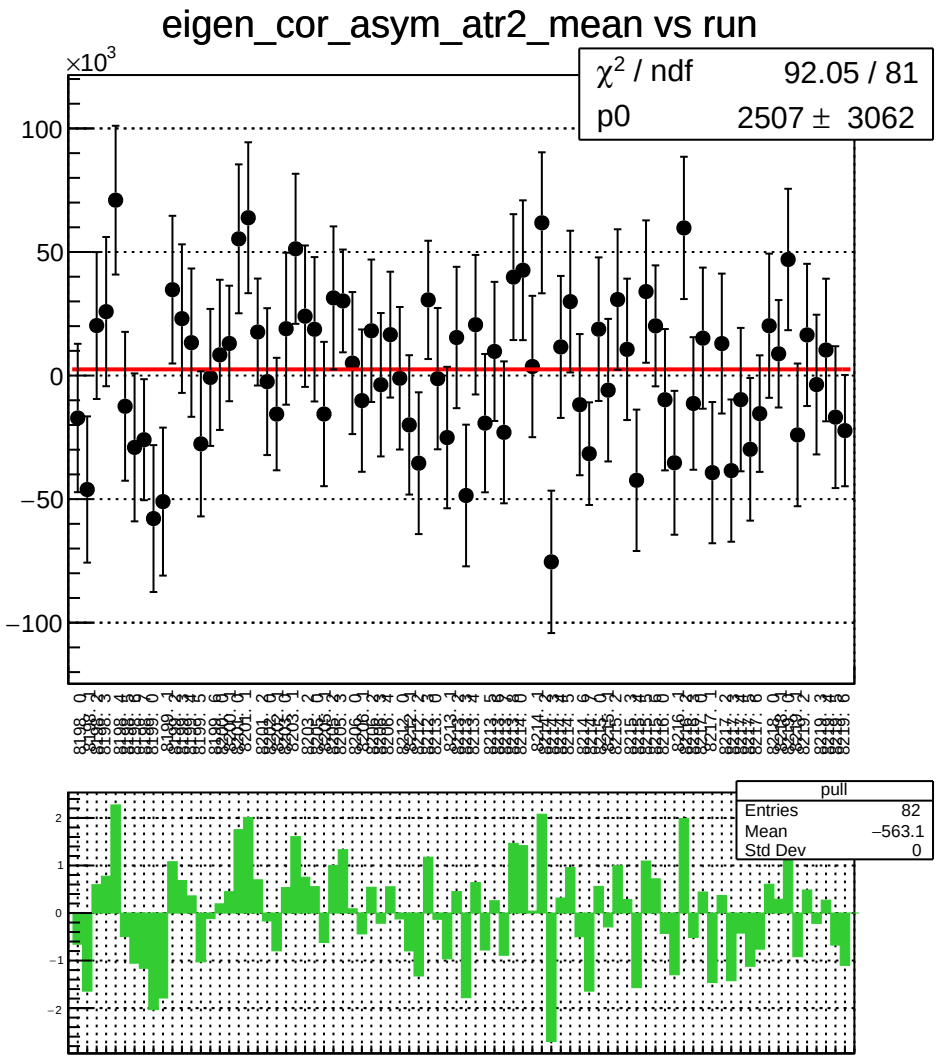

pull1D
Entries 82
Mean 0.002933
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

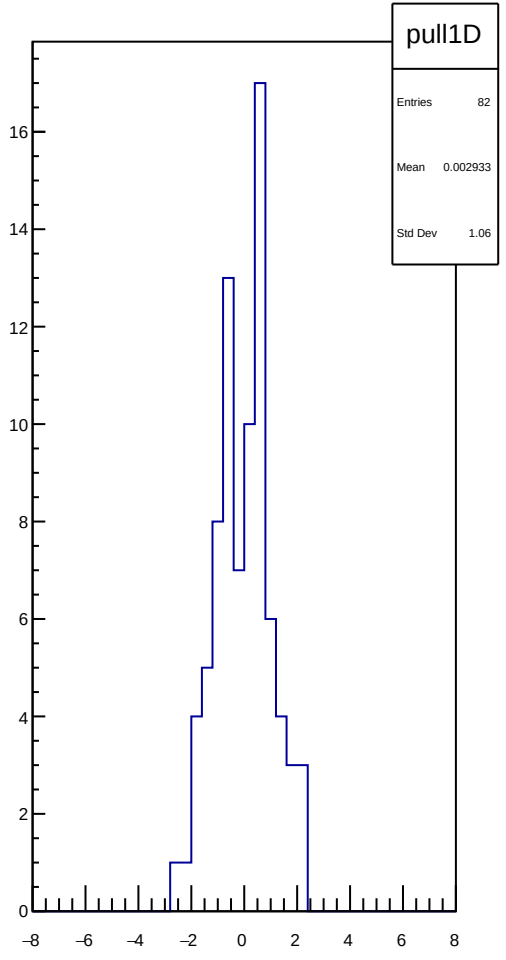

cor_asym_atr2_rms vs run
χ² / ndf 809.2 / 81
p0 2756 ± 2.165
2950
2900
2850
2800
2750
2700
2650

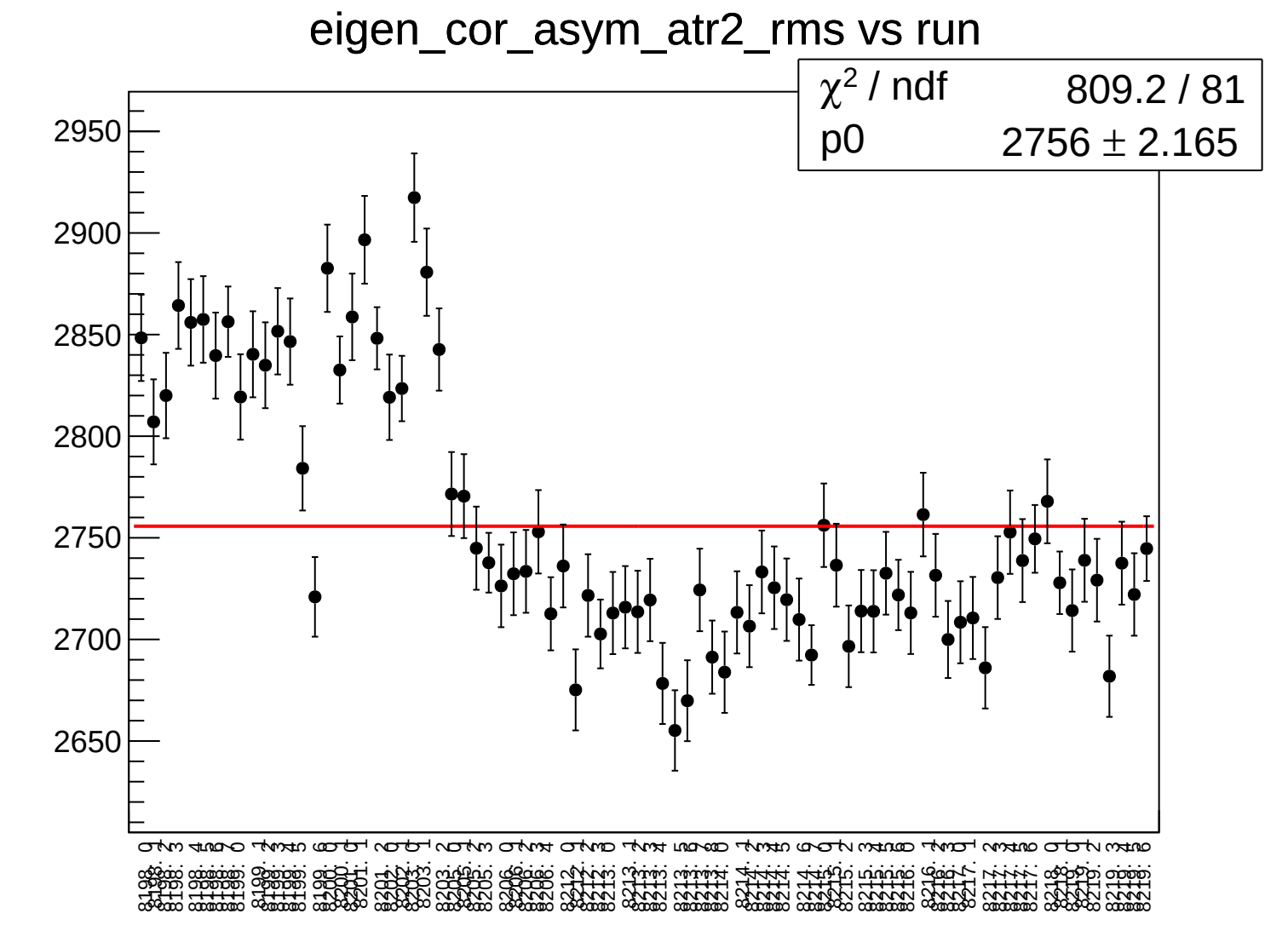

asym_atr2_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 96.21 / 81
p0 4803 ± 1.689e+04
pull
Entries 82
Mean 21.49
Std Dev 0
2
1
0
−1
−2
−3

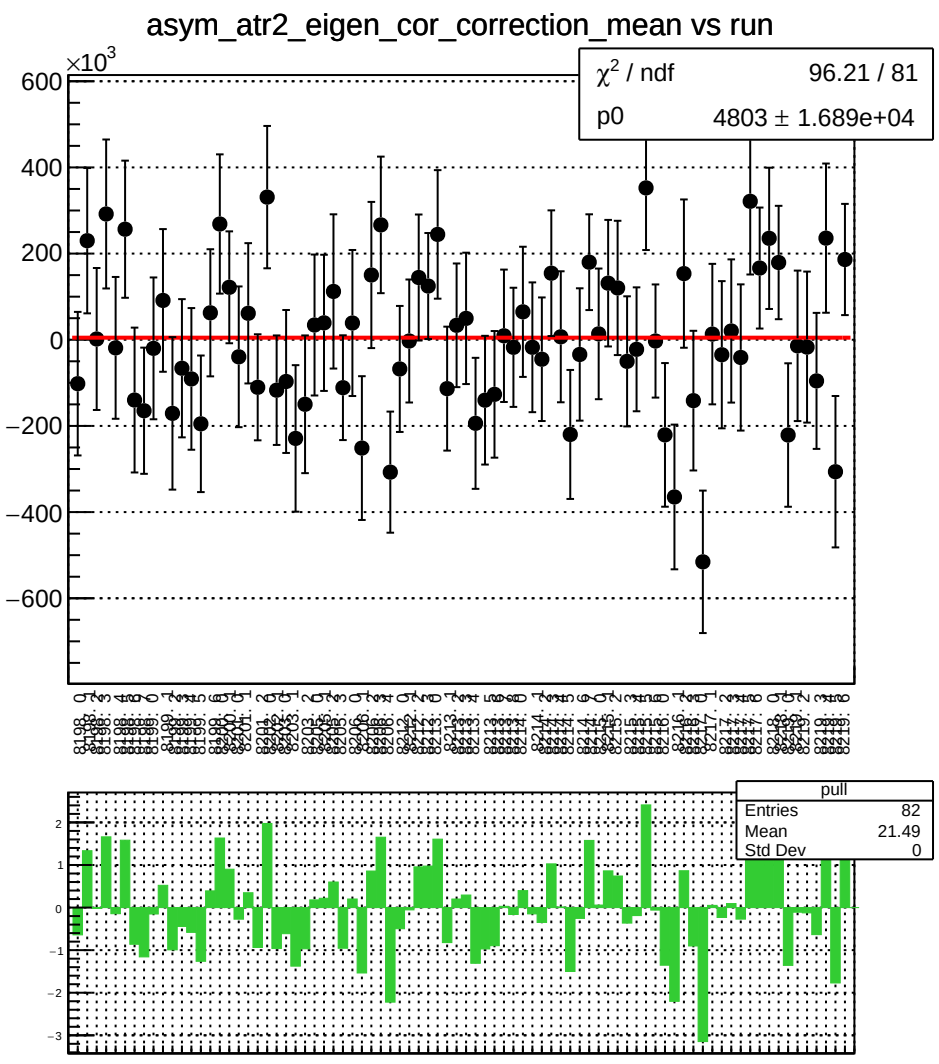

pull1D
Entries 82
Mean −0.01291
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

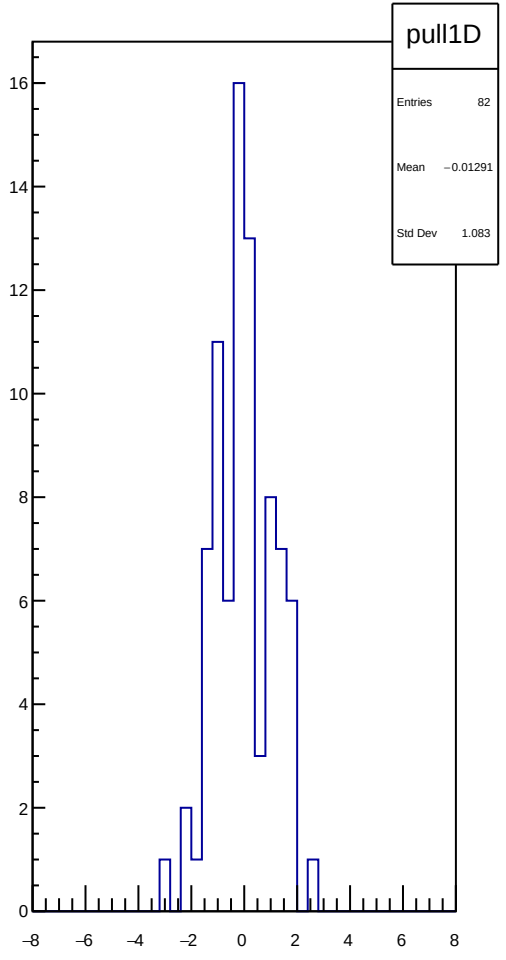

asym_atr2_cor_correction_rms vs run
χ² / ndf 6424 / 81
p0 1.518e+04 ± 11.95
17500
17000
16500
16000
15500
15000
14500
14000
13500


eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 92.05 / 81
p0 2507 ± 3062
100
50
0
−50
−100
pull
Entries 82
Mean −563.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 82
Mean 0.002933
Std Dev 1.06
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 809.2 / 81
p0 2756 ± 2.165
2950
2900
2850
2800
2750
2700
2650


asym_atr2_eigen_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 96.21 / 81
p0 4803 ± 1.689e+04
pull
Entries 82
Mean 21.49
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean −0.01291
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
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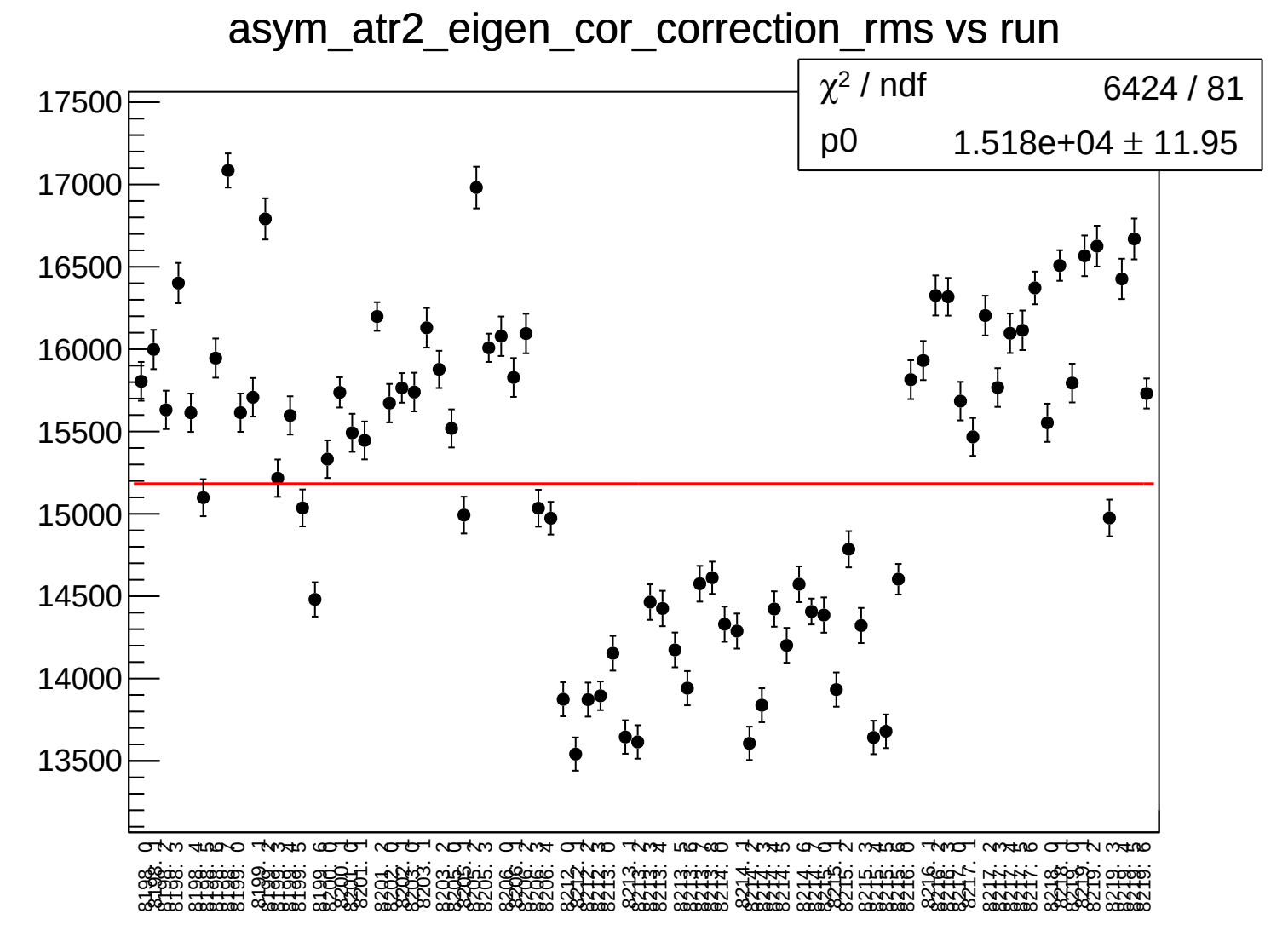
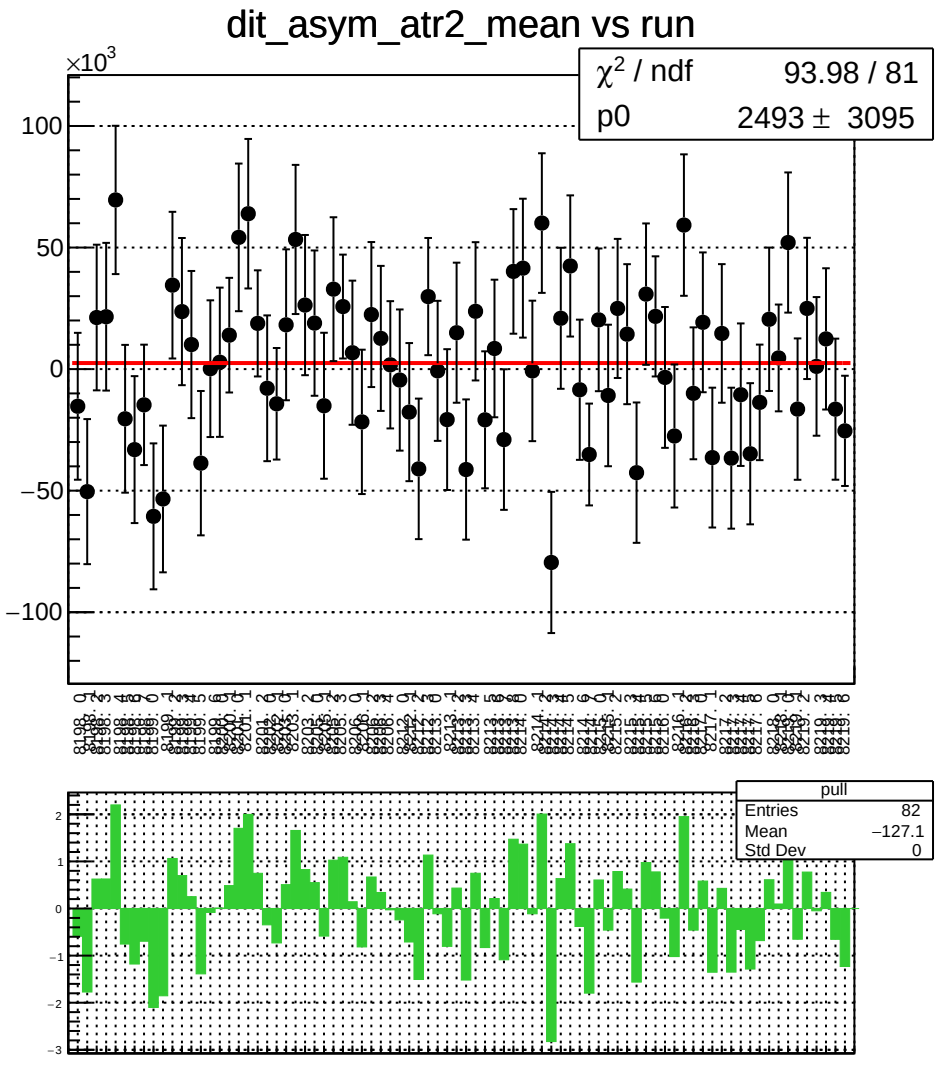
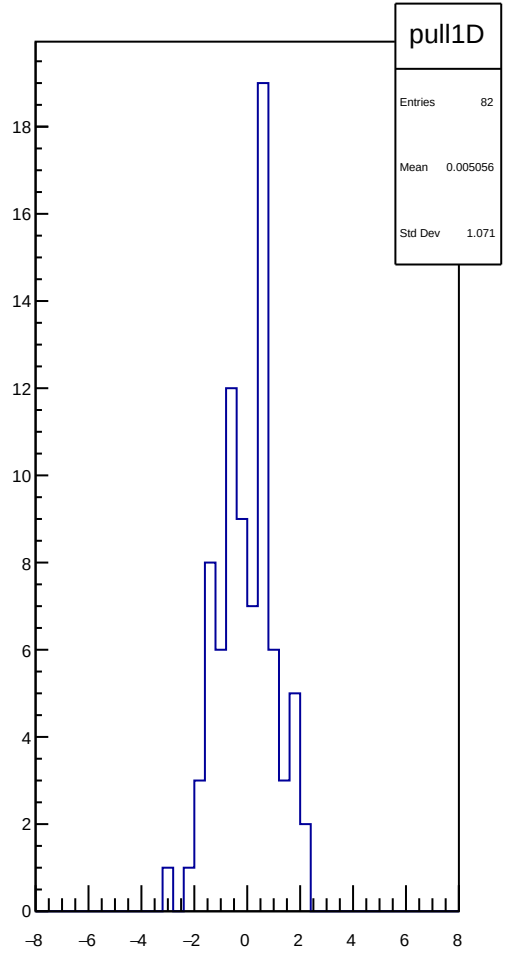

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 6424 / 81
p0 1.518e+04 ± 11.95
17500
17000
16500
16000
15500
15000
14500
14000
13500


dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 93.98 / 81
p0 2493 ± 3095
100
50
0
−50
−100
pull
Entries 82
Mean −127.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.005056
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
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−4
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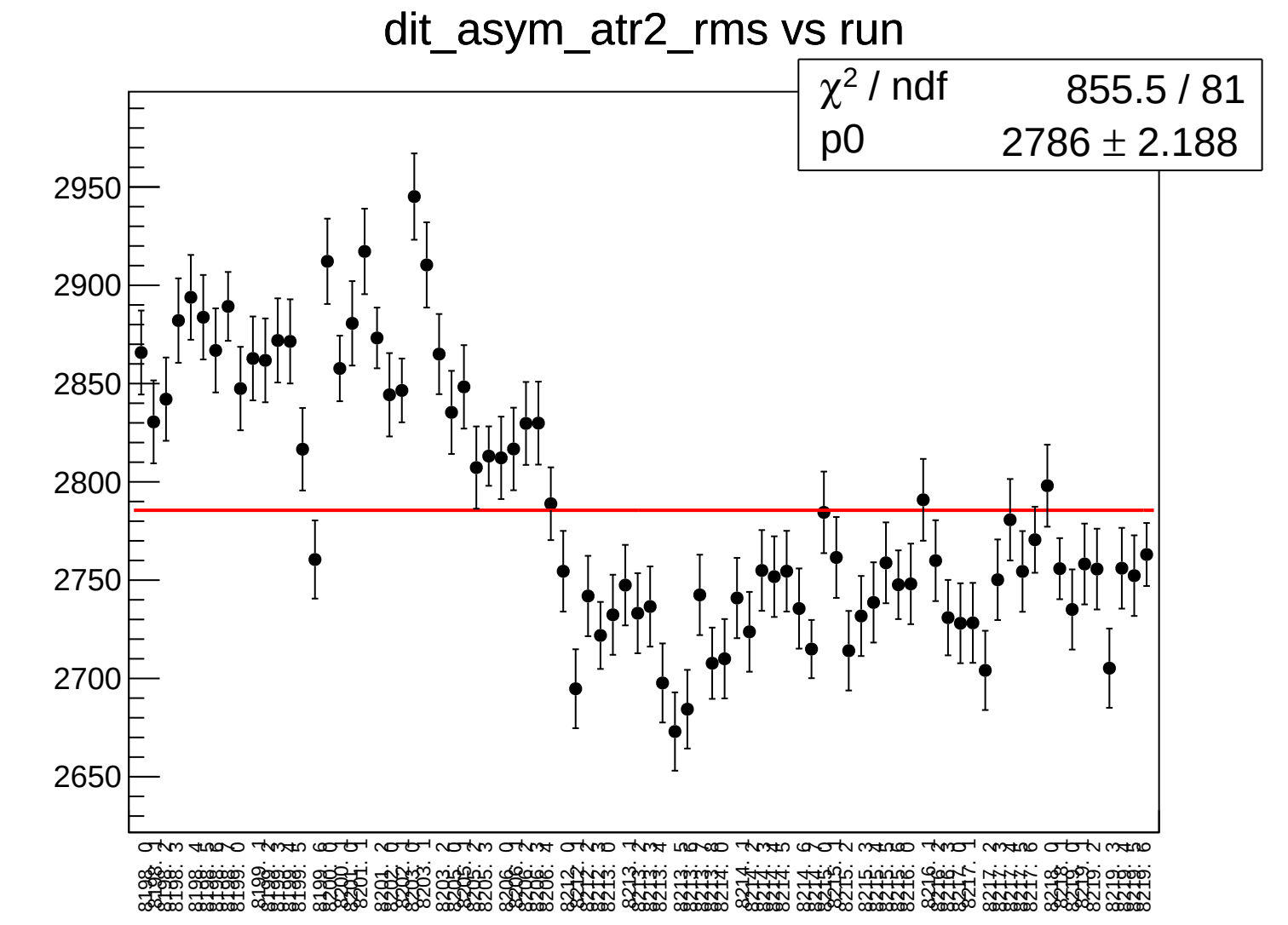
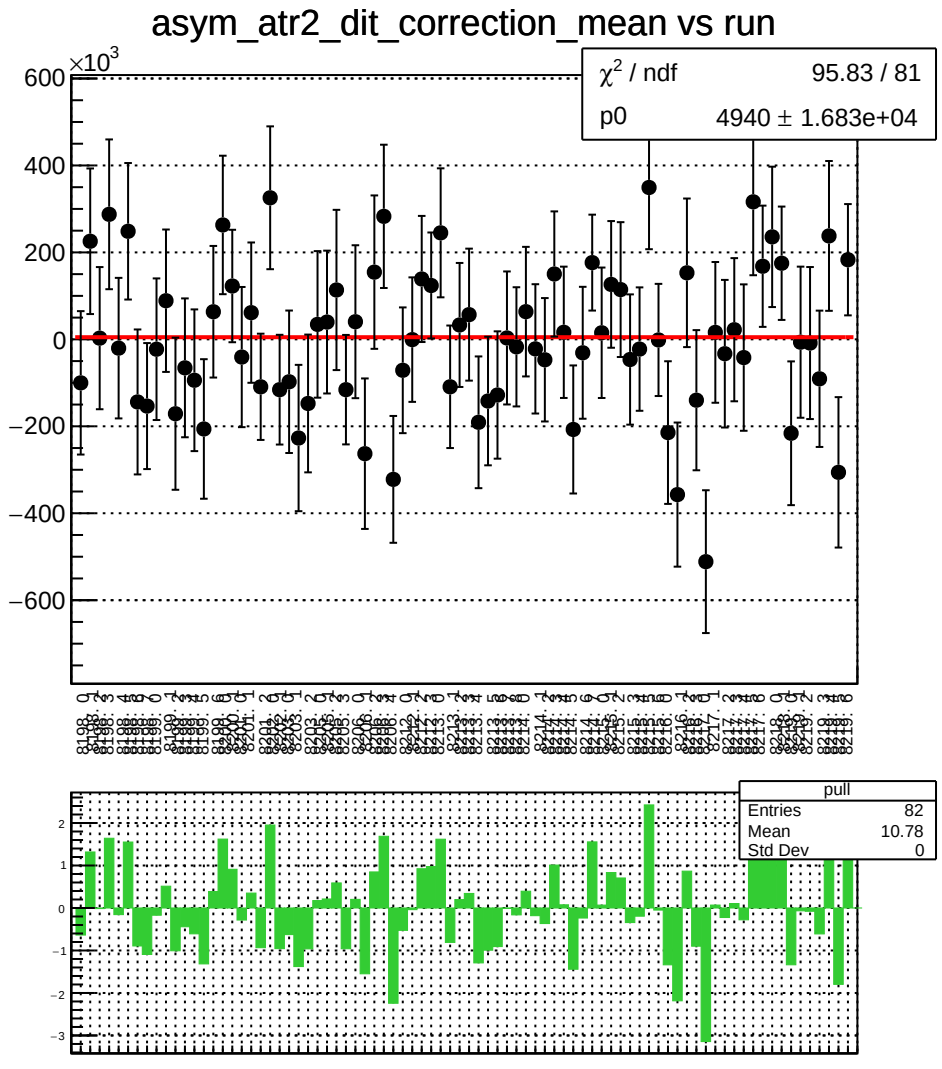
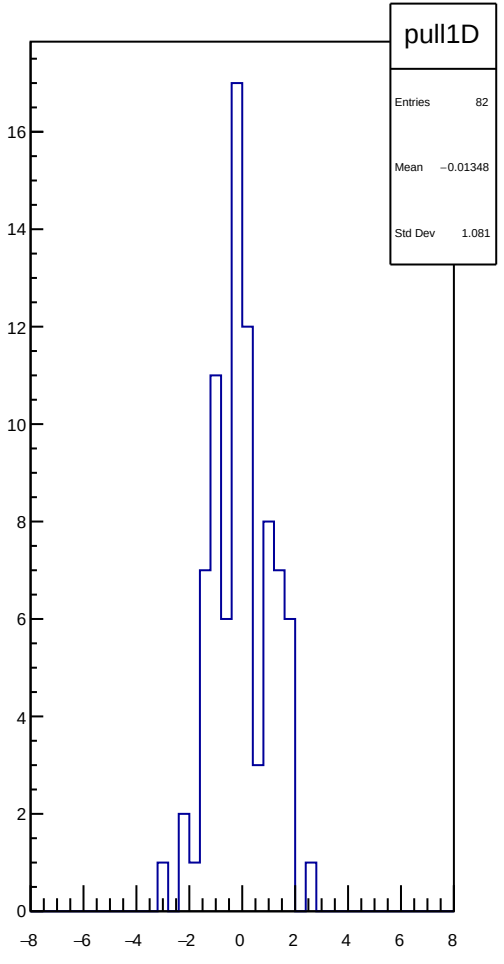
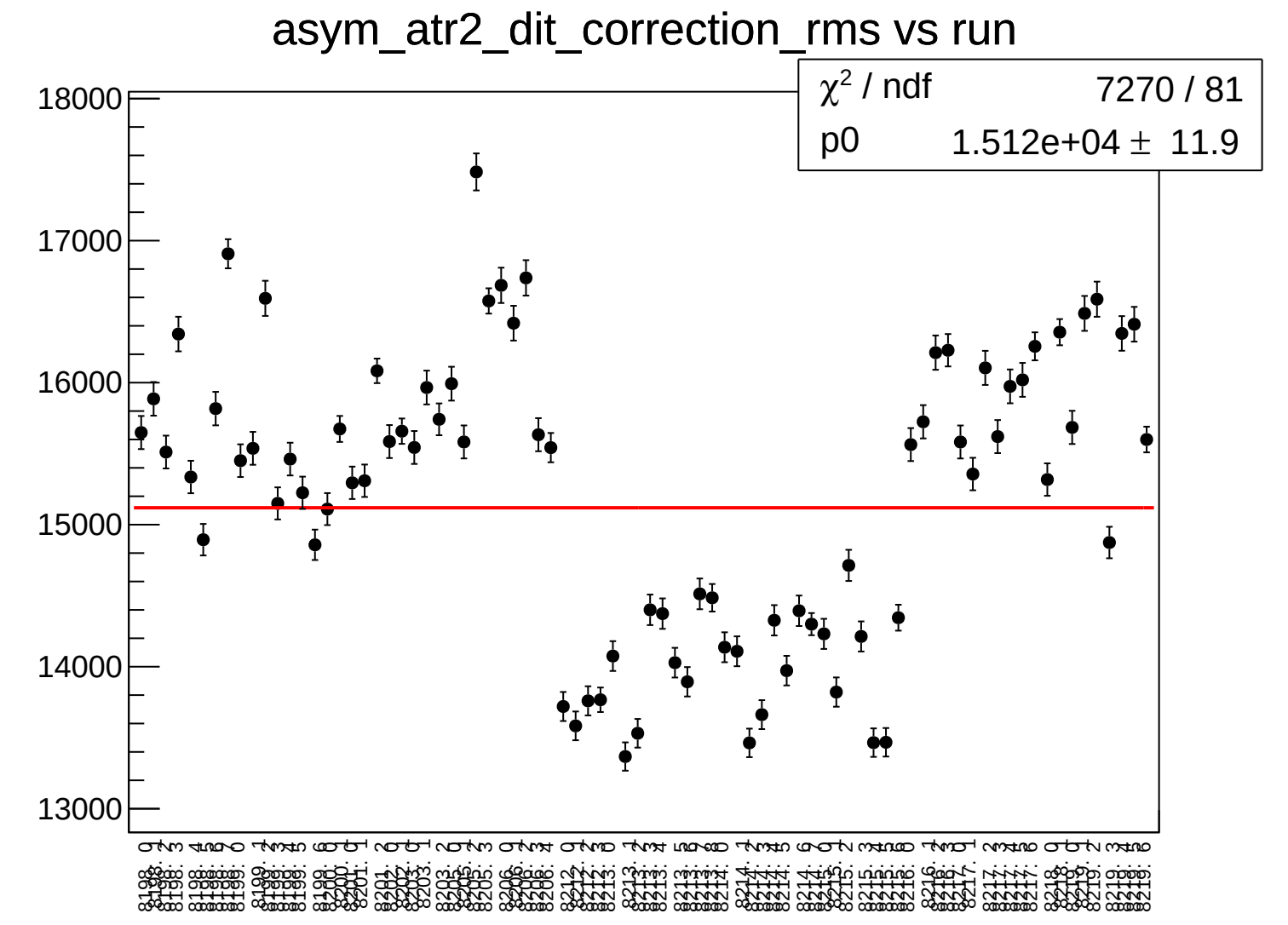
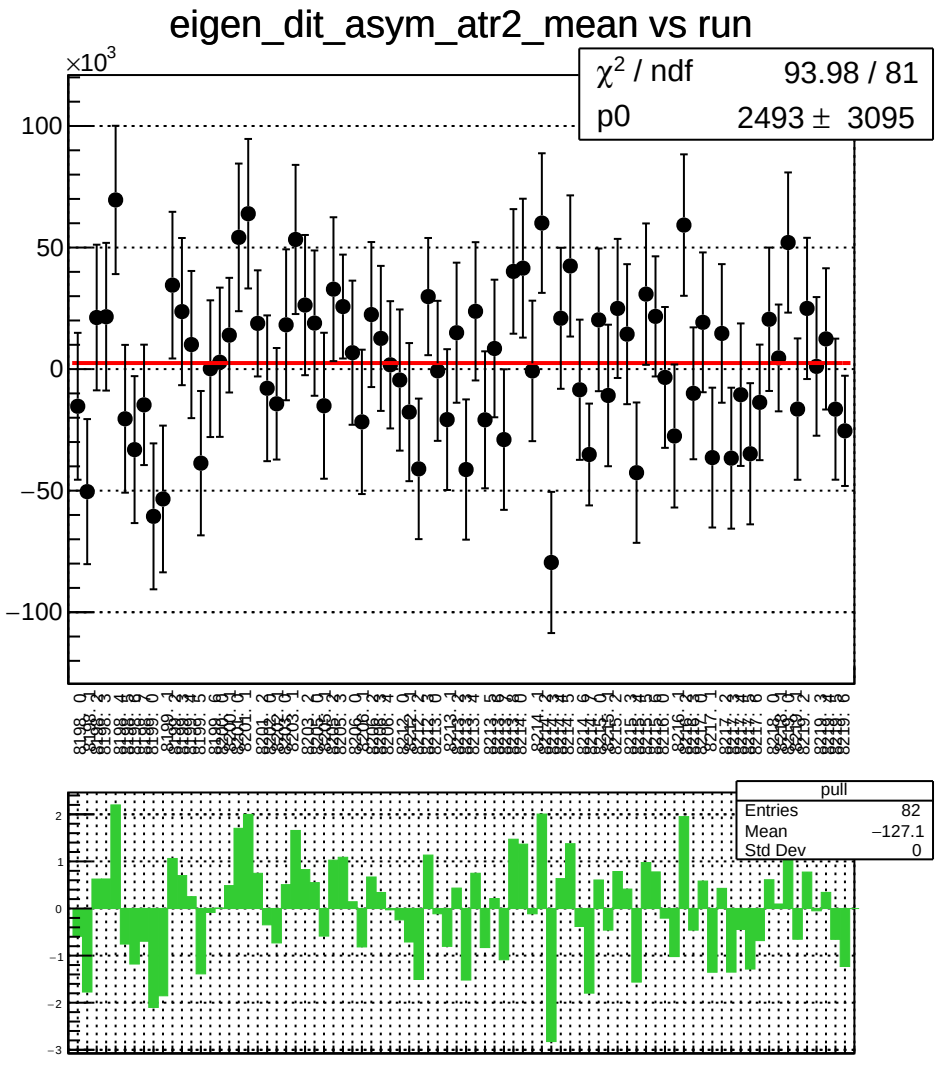
0
2
4
6
8

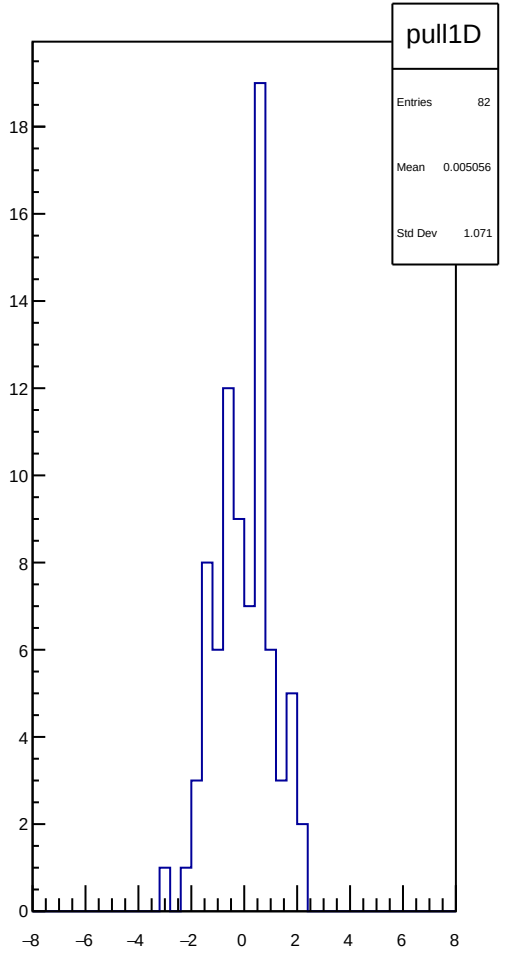

dit_asym_atr2_rms vs run
χ² / ndf 855.5 / 81
p0 2786 ± 2.188
2950
2900
2850
2800
2750
2700
2650

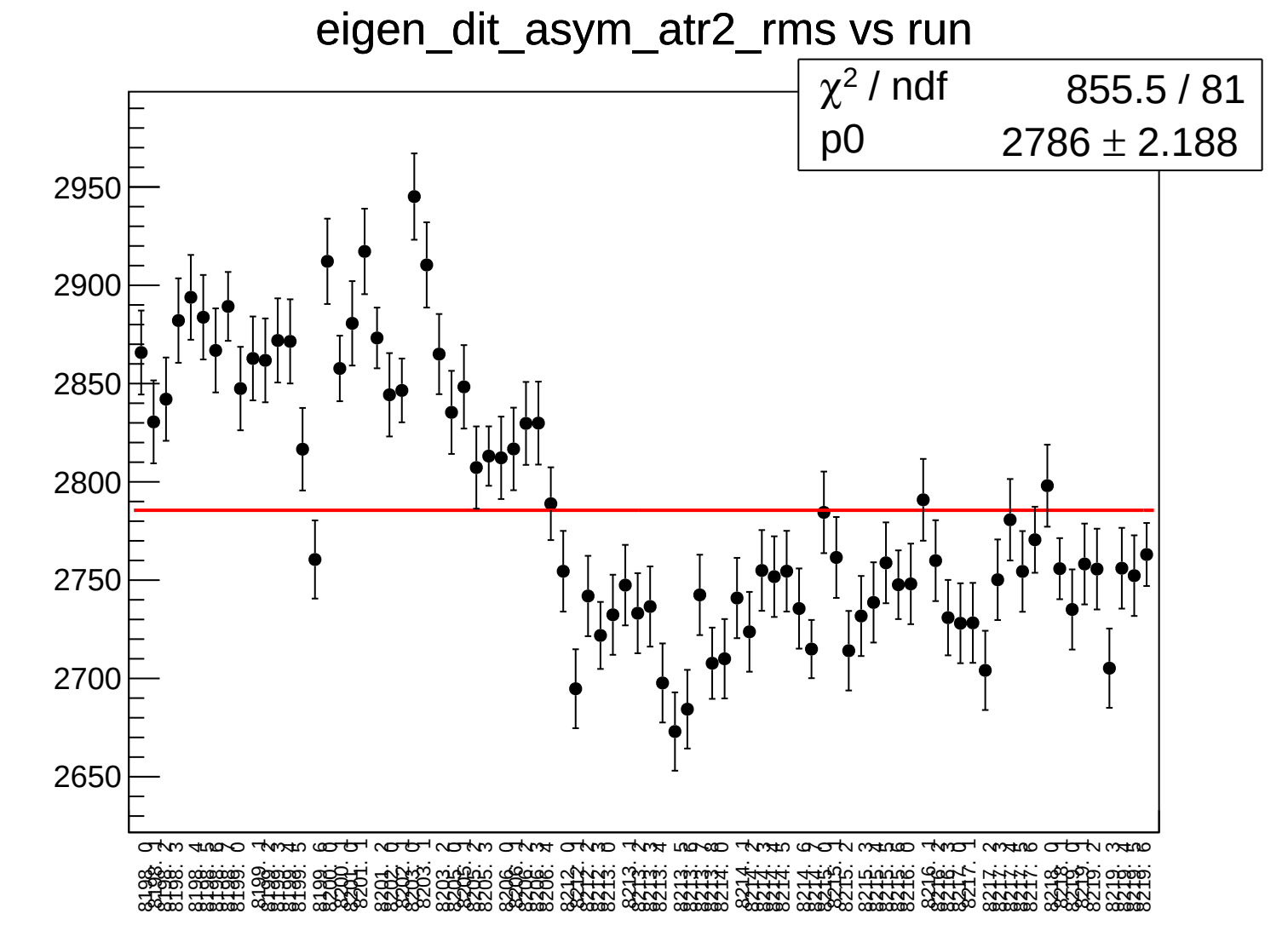

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 95.83 / 81
p0 4940 ± 1.683e+04
pull
Entries 82
Mean 10.78
Std Dev 0

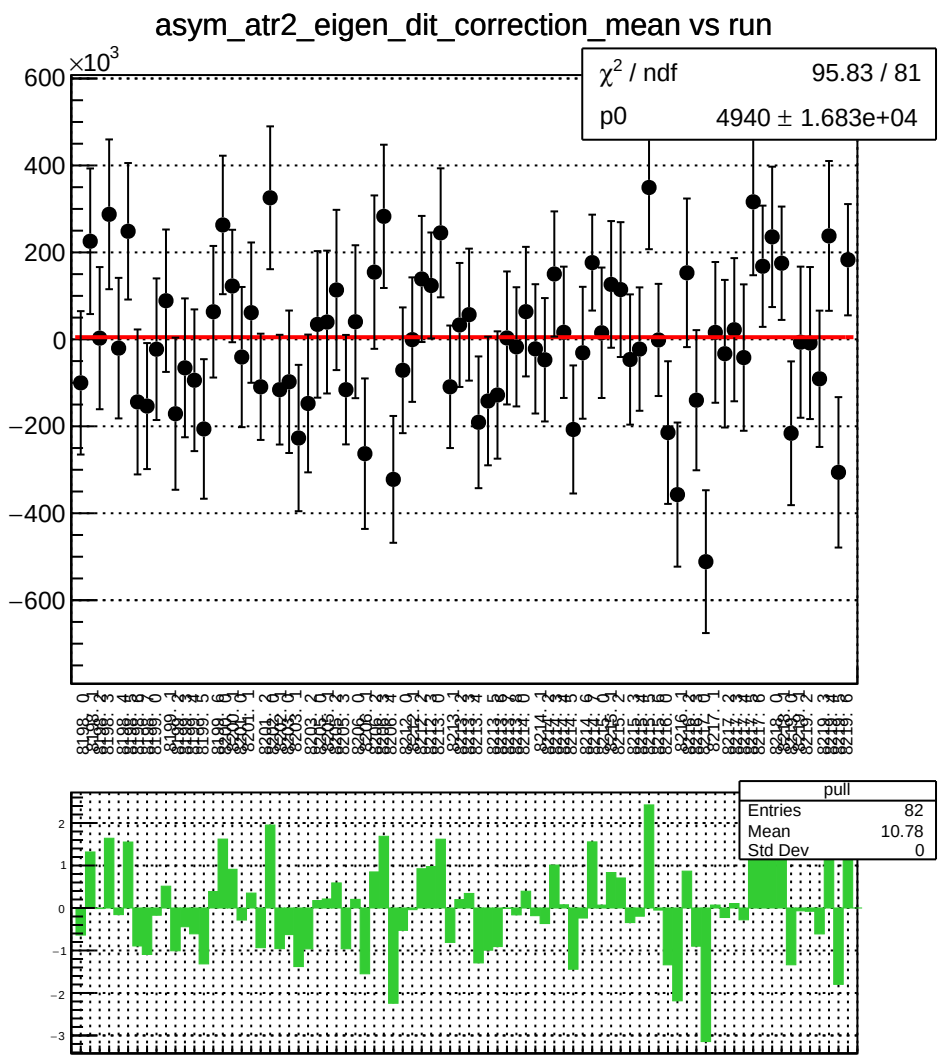

pull1D
Entries 82
Mean −0.01348
Std Dev 1.081

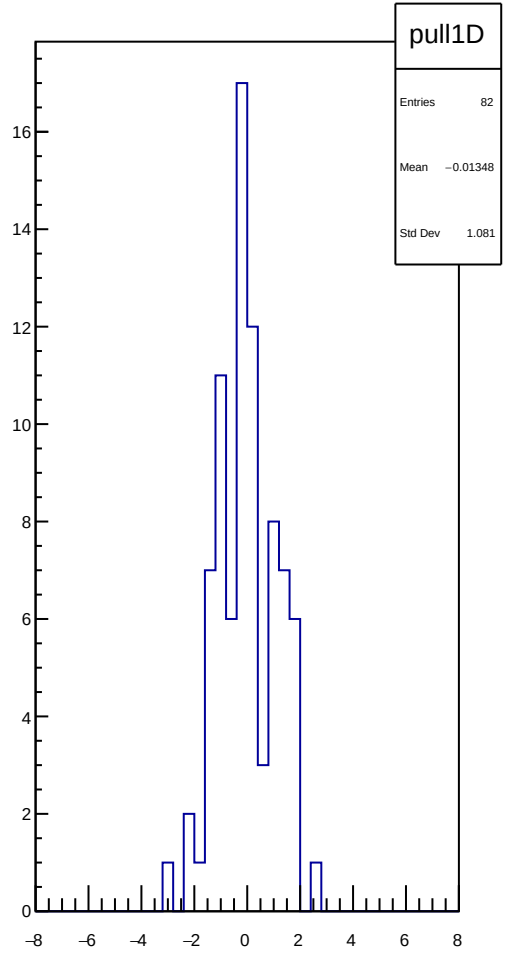

asym_atr2_dit_correction_rms vs run
χ² / ndf 7270 / 81
p0 1.512e+04 ± 11.9
18000
17000
16000
15000
14000
13000

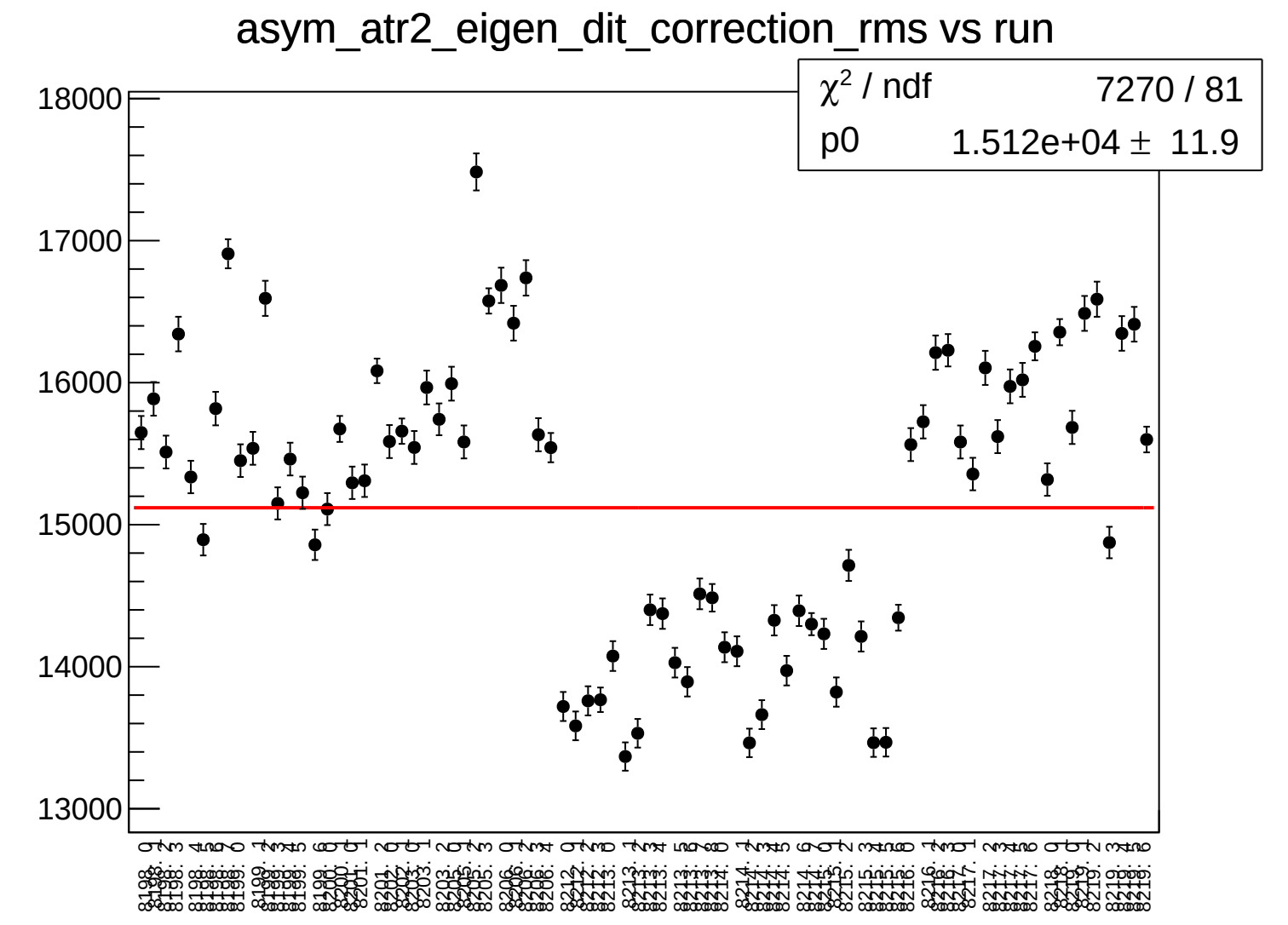

eigen_dit_asym_atr2_mean vs run
χ² / ndf 93.98 / 81
p0 2493 ± 3095
×10³
pull
Entries 82
Mean −127.1
Std Dev 0

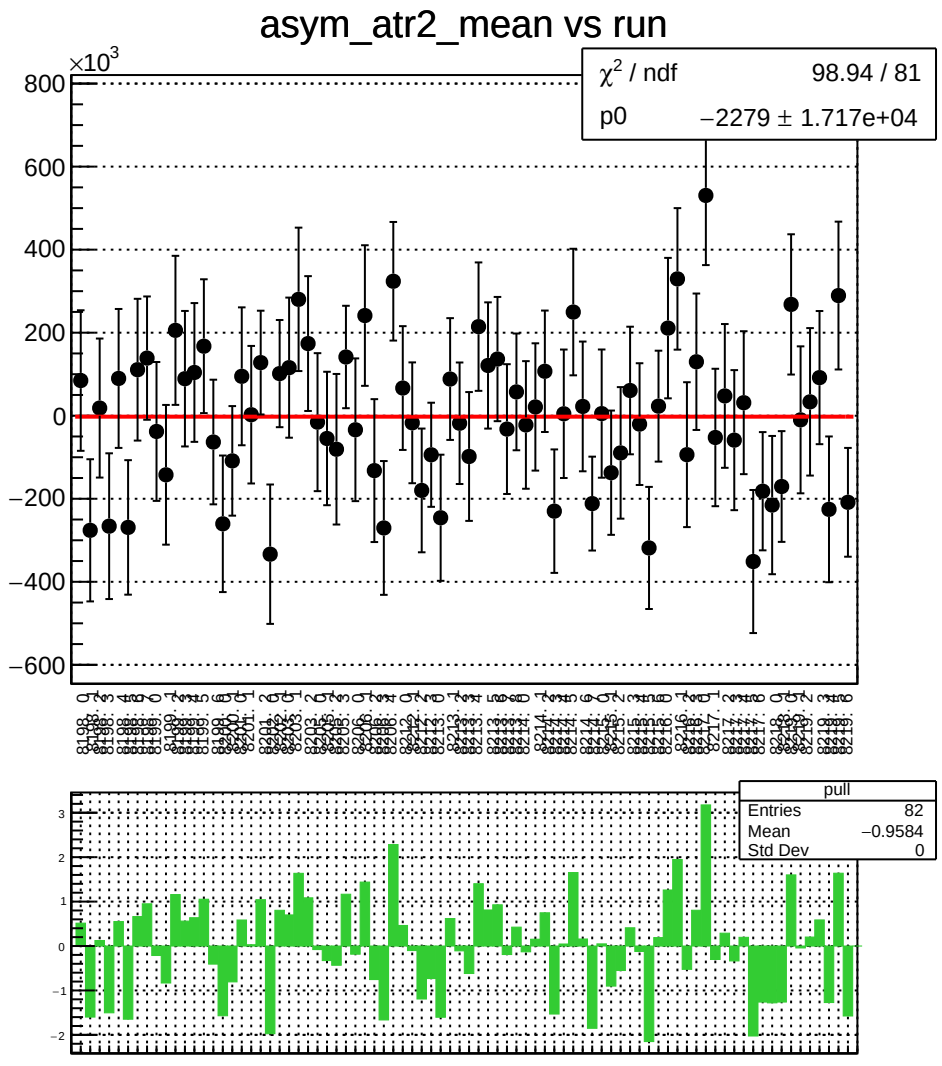

pull1D
Entries 82
Mean 0.005056
Std Dev 1.071

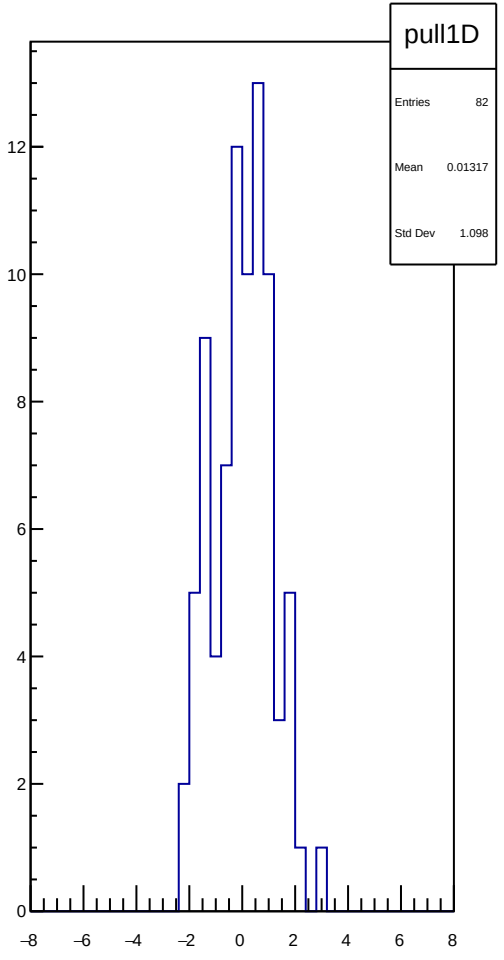

eigen_dit_asym_atr2_rms vs run
χ² / ndf 855.5 / 81
p0 2786 ± 2.188
2950
2900
2850
2800
2750
2700
2650

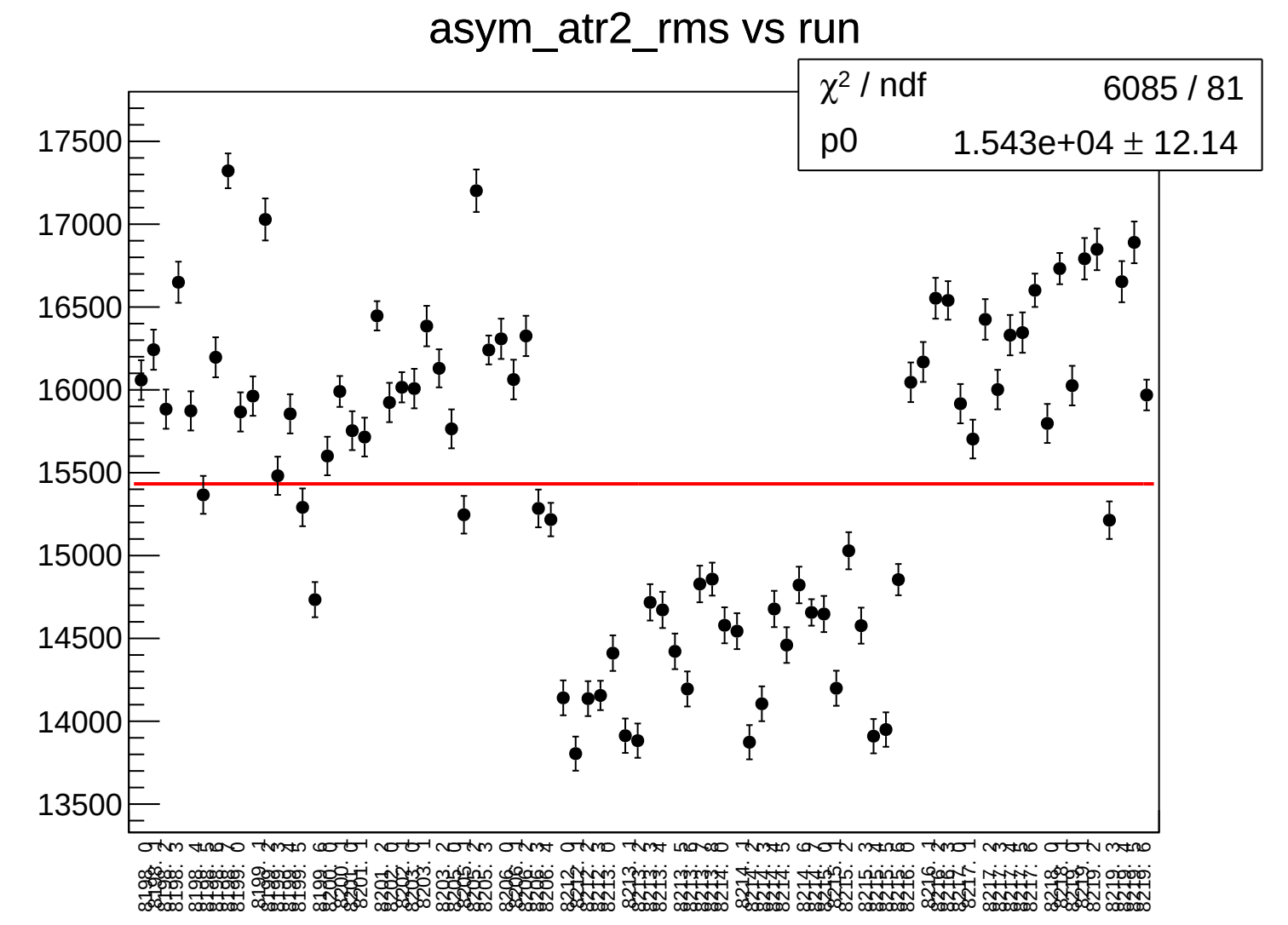

asym_atr2_eigen_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 95.83 / 81
p0 4940 ± 1.683e+04
pull
Entries 82
Mean 10.78
Std Dev 0
2
1
0
−1
−2
−3

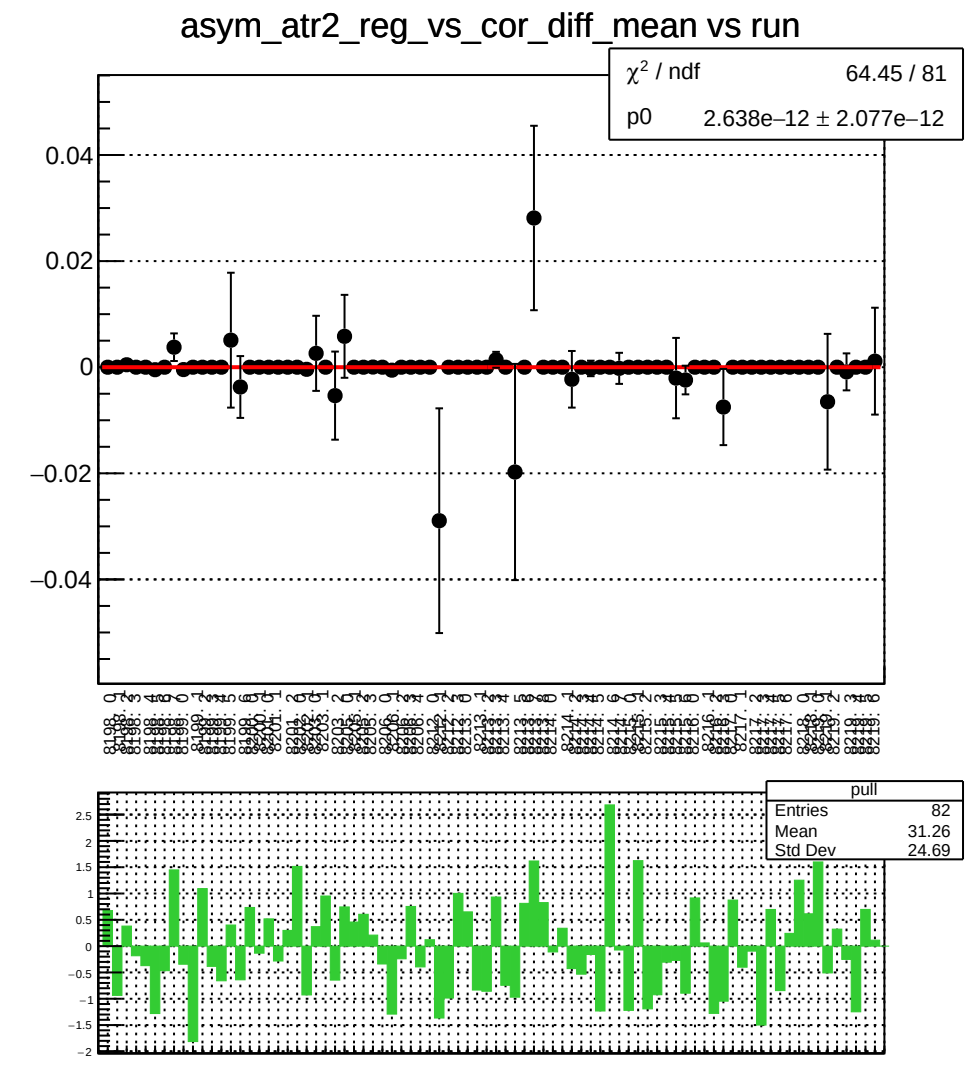

pull1D
Entries 82
Mean −0.01348
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

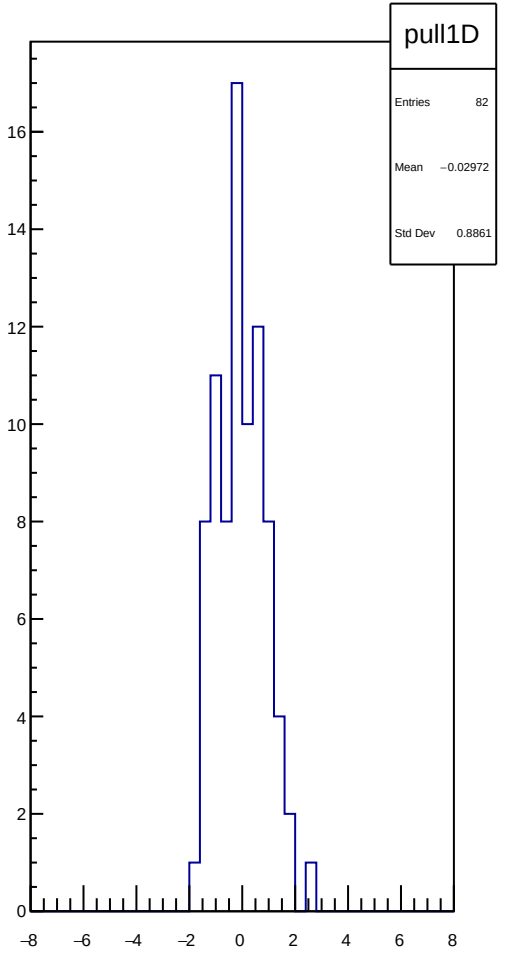

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 7270 / 81
p0 1.512e+04 ± 11.9
18000
17000
16000
15000
14000
13000

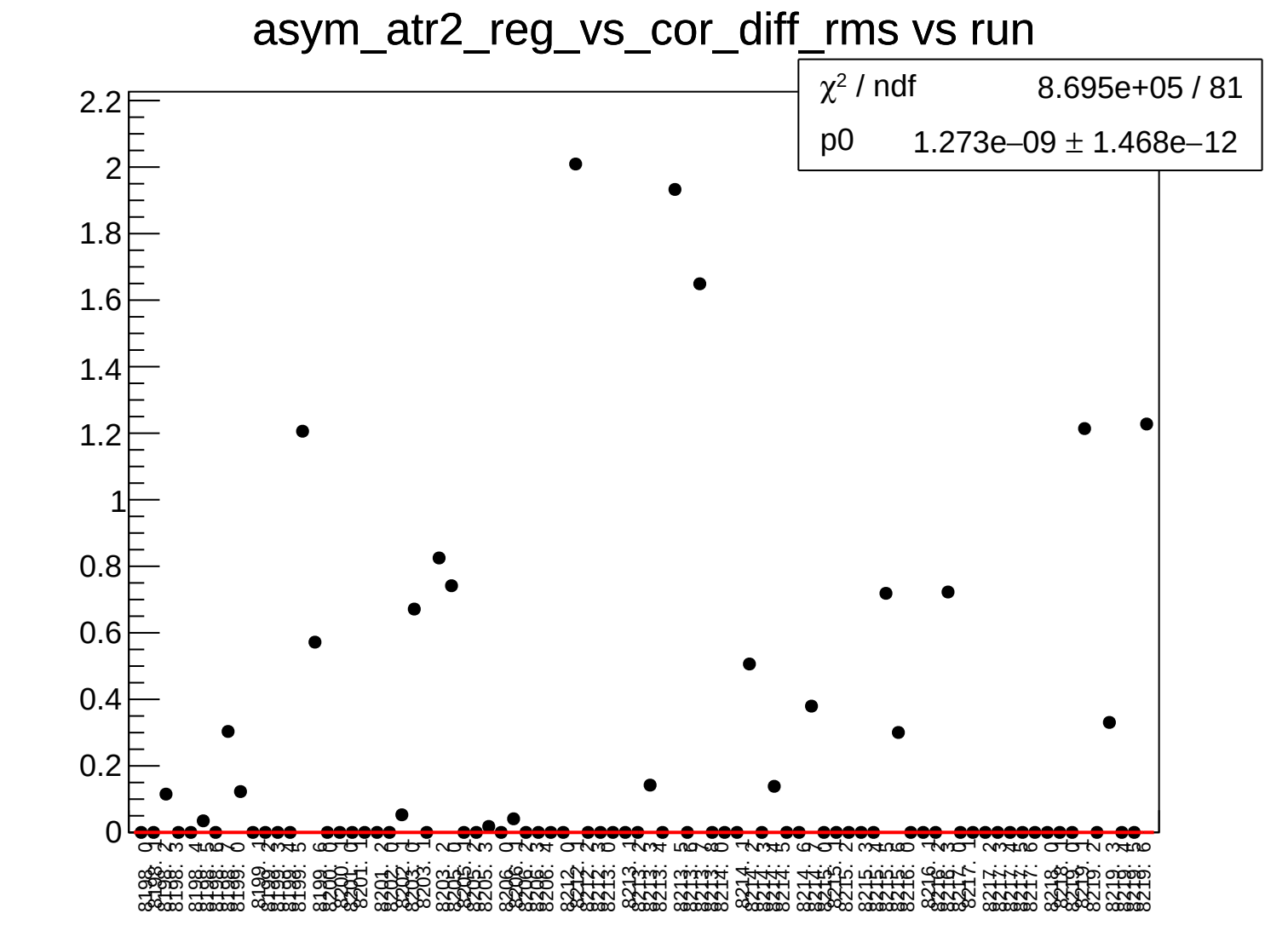

asym_atr2_mean vs run
×10^3
χ² / ndf 98.94 / 81
p0 −2279 ± 1.717e+04
pull
Entries 82
Mean −0.9584
Std Dev 0

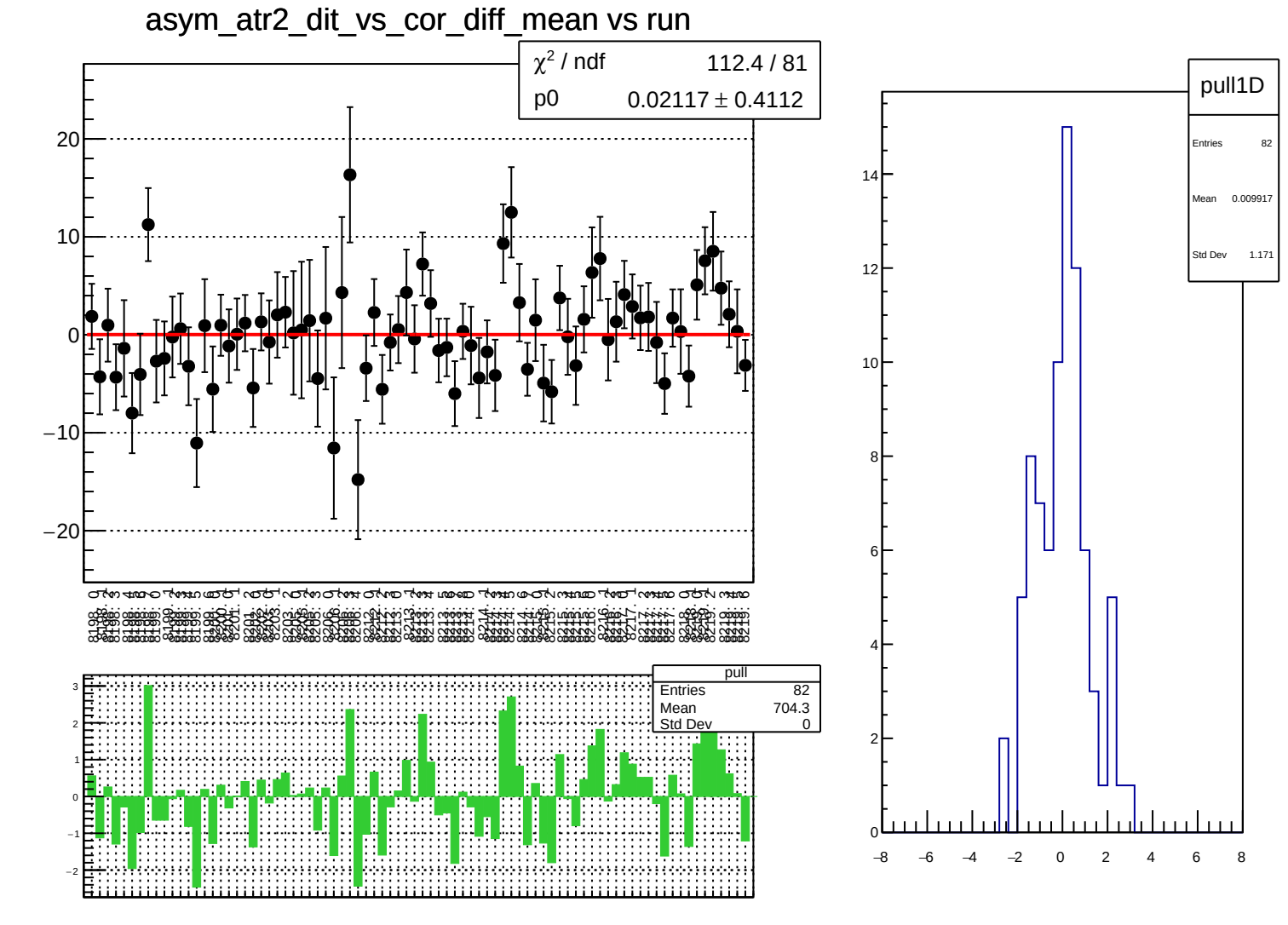

pull1D
Entries 82
Mean 0.01317
Std Dev 1.098

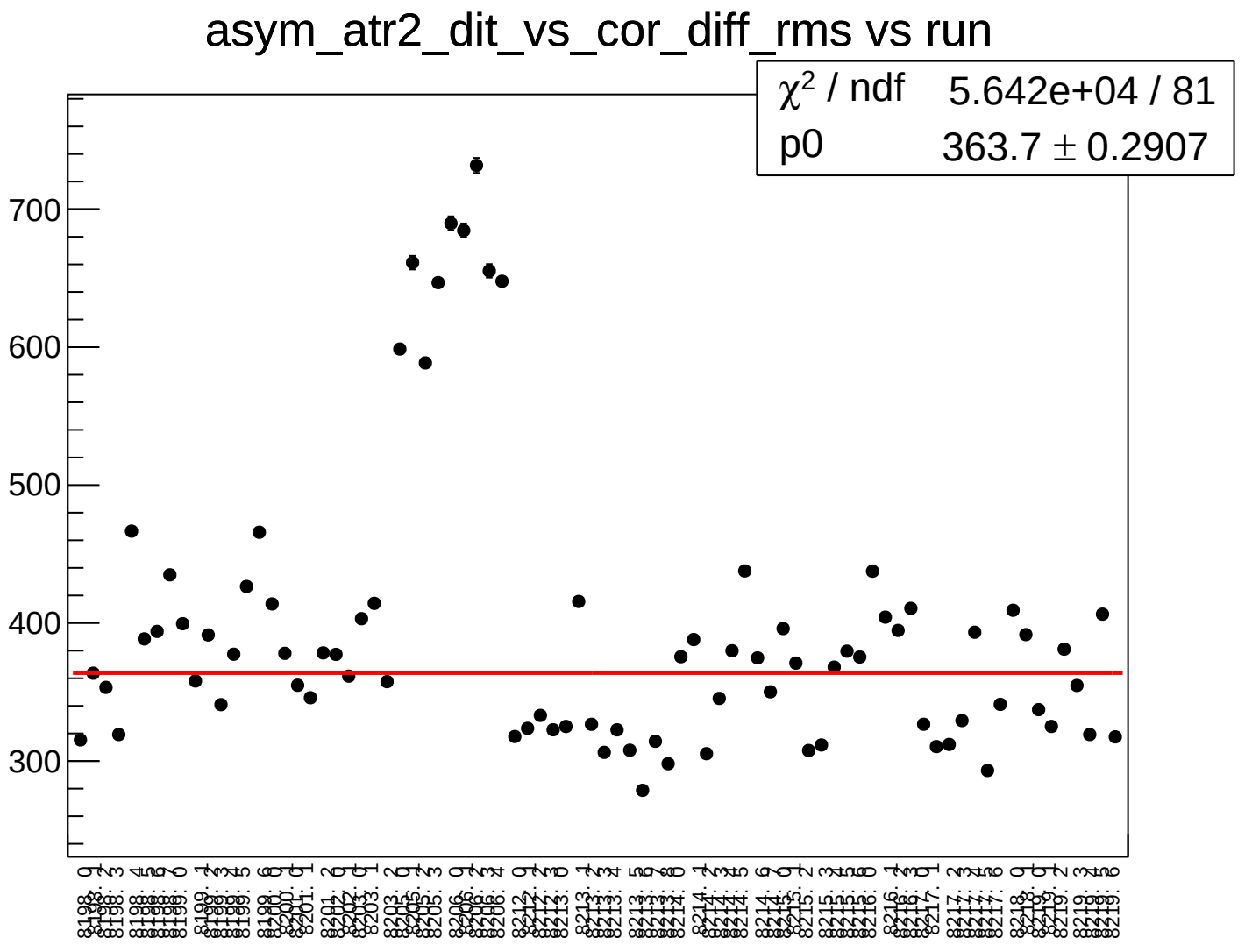

asym_atr2_rms vs run
χ² / ndf 6085 / 81
p0 1.543e+04 ± 12.14
17500
17000
16500
16000
15500
15000
14500
14000
13500

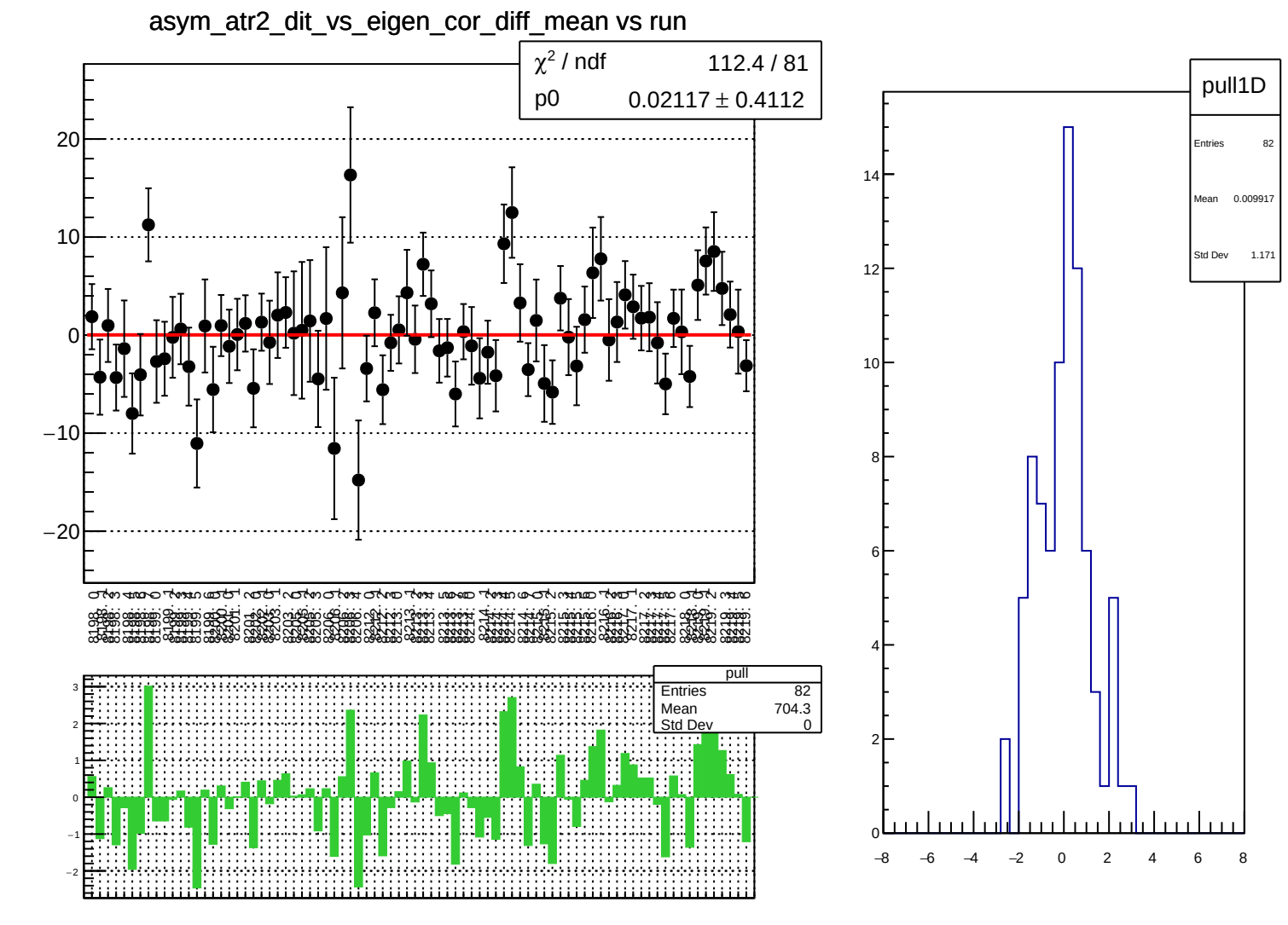

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 64.45 / 81
p0 2.638e−12 ± 2.077e−12
0.04
0.02
0
−0.02
−0.04
pull
Entries 82
Mean 31.26
Std Dev 24.69
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

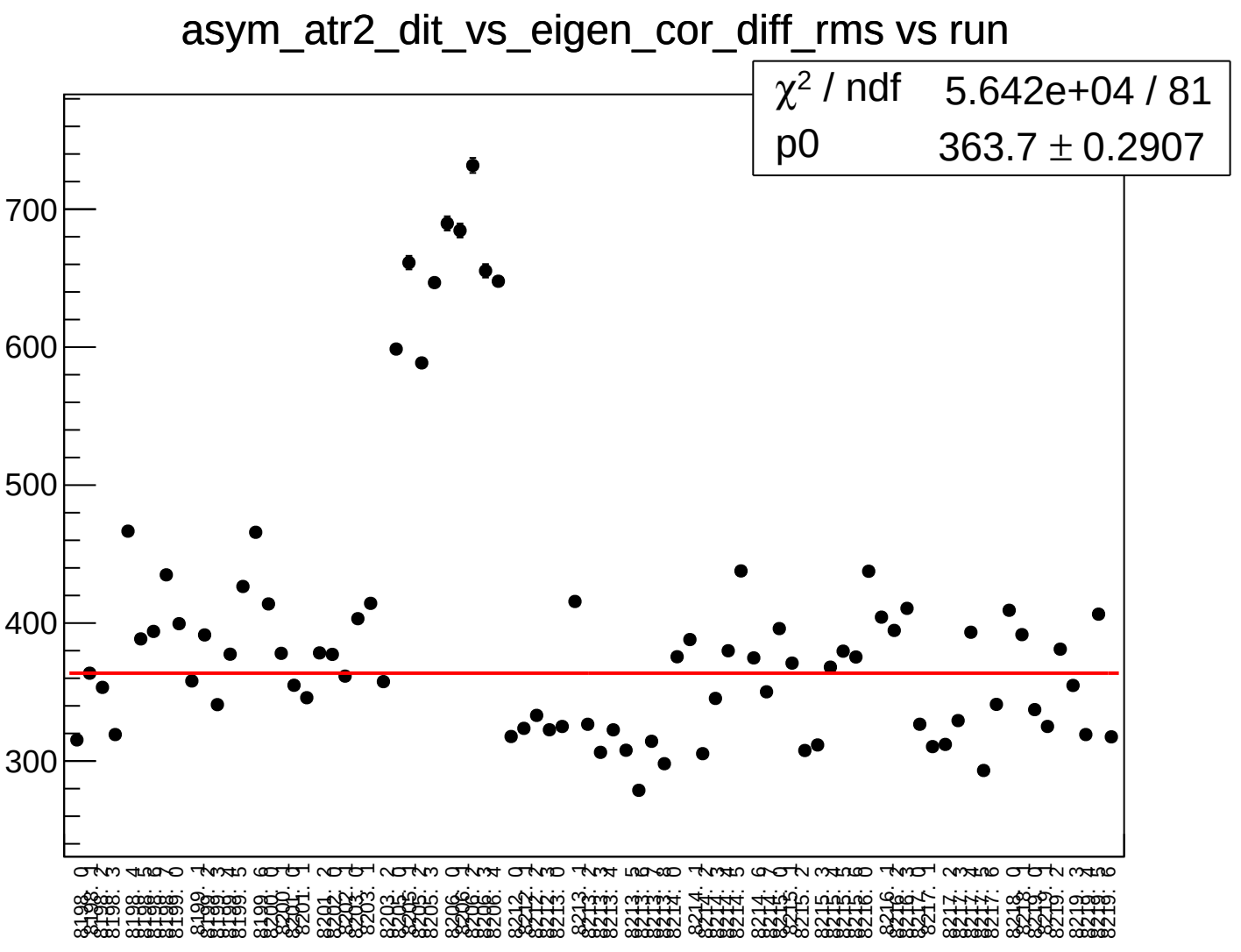

pull1D
Entries 82
Mean −0.02972
Std Dev 0.8861
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

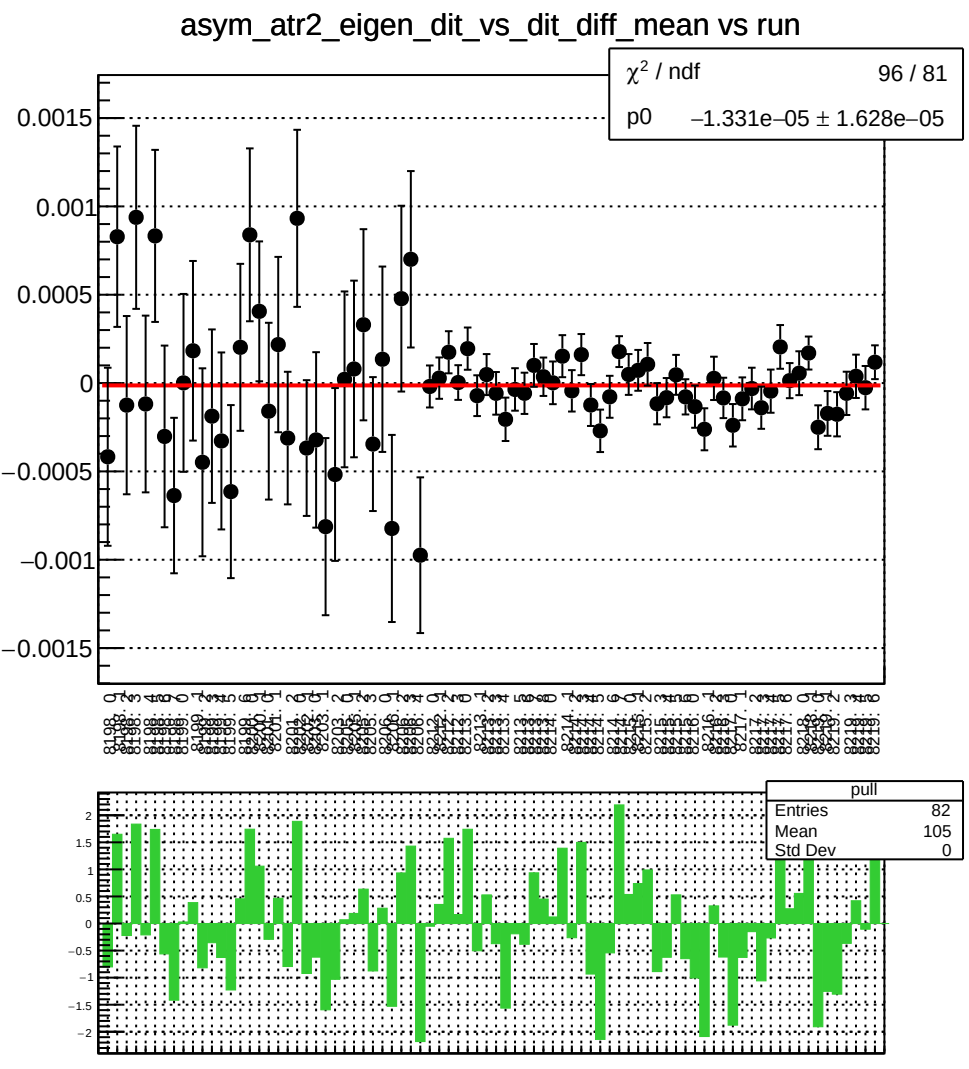

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.695e+05 / 81
p0 1.273e−09 ± 1.468e−12
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

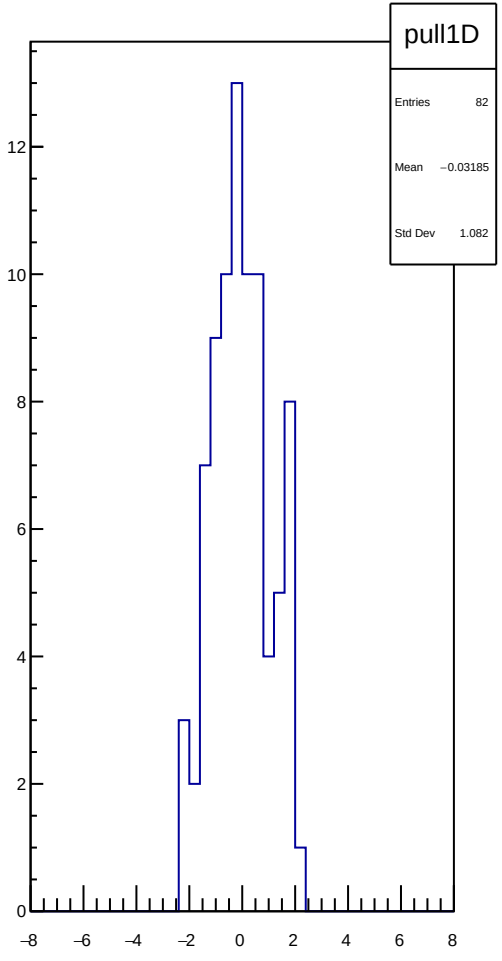

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 112.4 / 81
p0 0.02117 ± 0.4112
pull
Entries 82
Mean 704.3
Std Dev 0
pull1D
Entries 82
Mean 0.009917
Std Dev 1.171

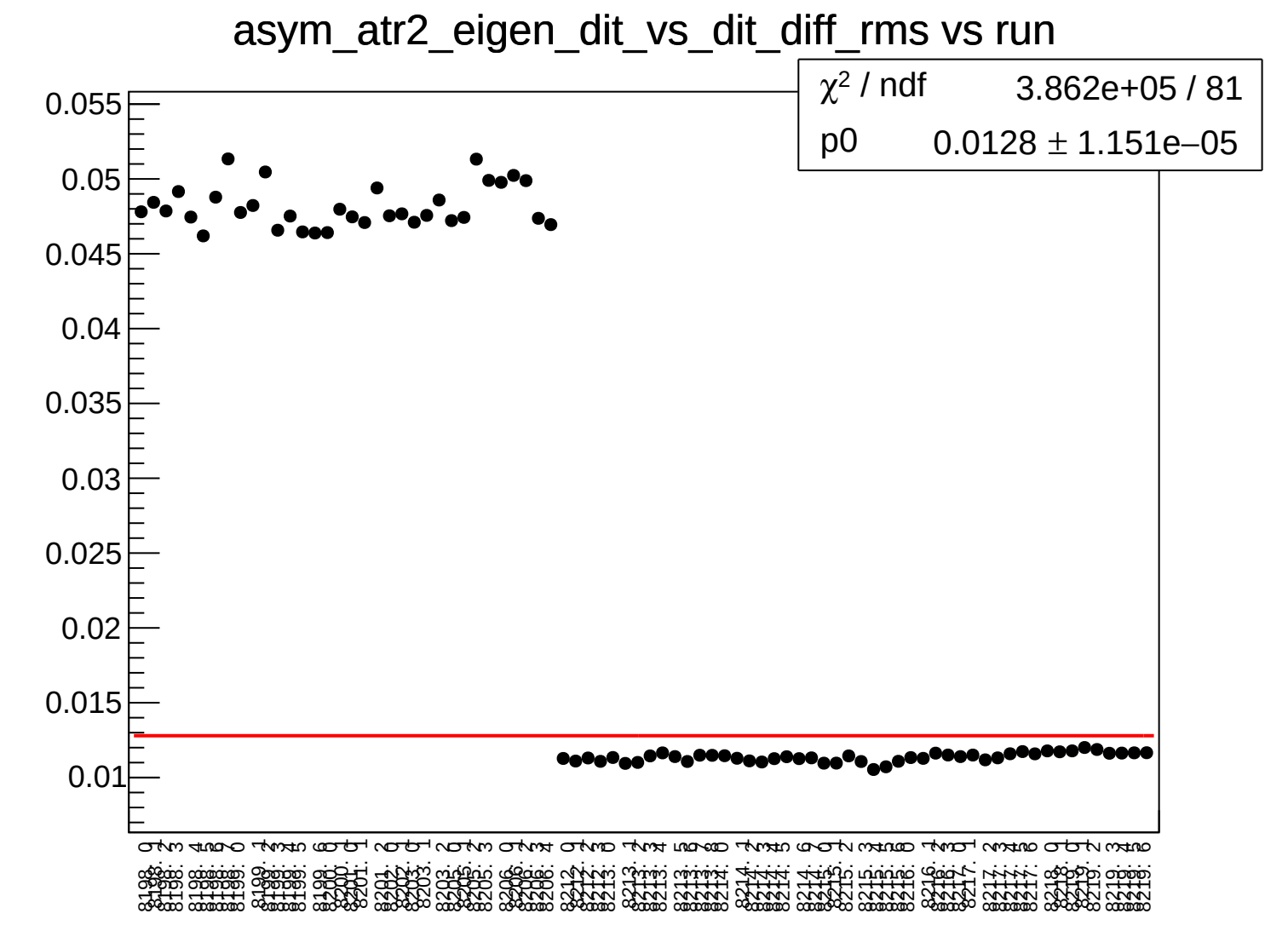

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 5.642e+04 / 81
p0 363.7 ± 0.2907
700
600
500
400
300

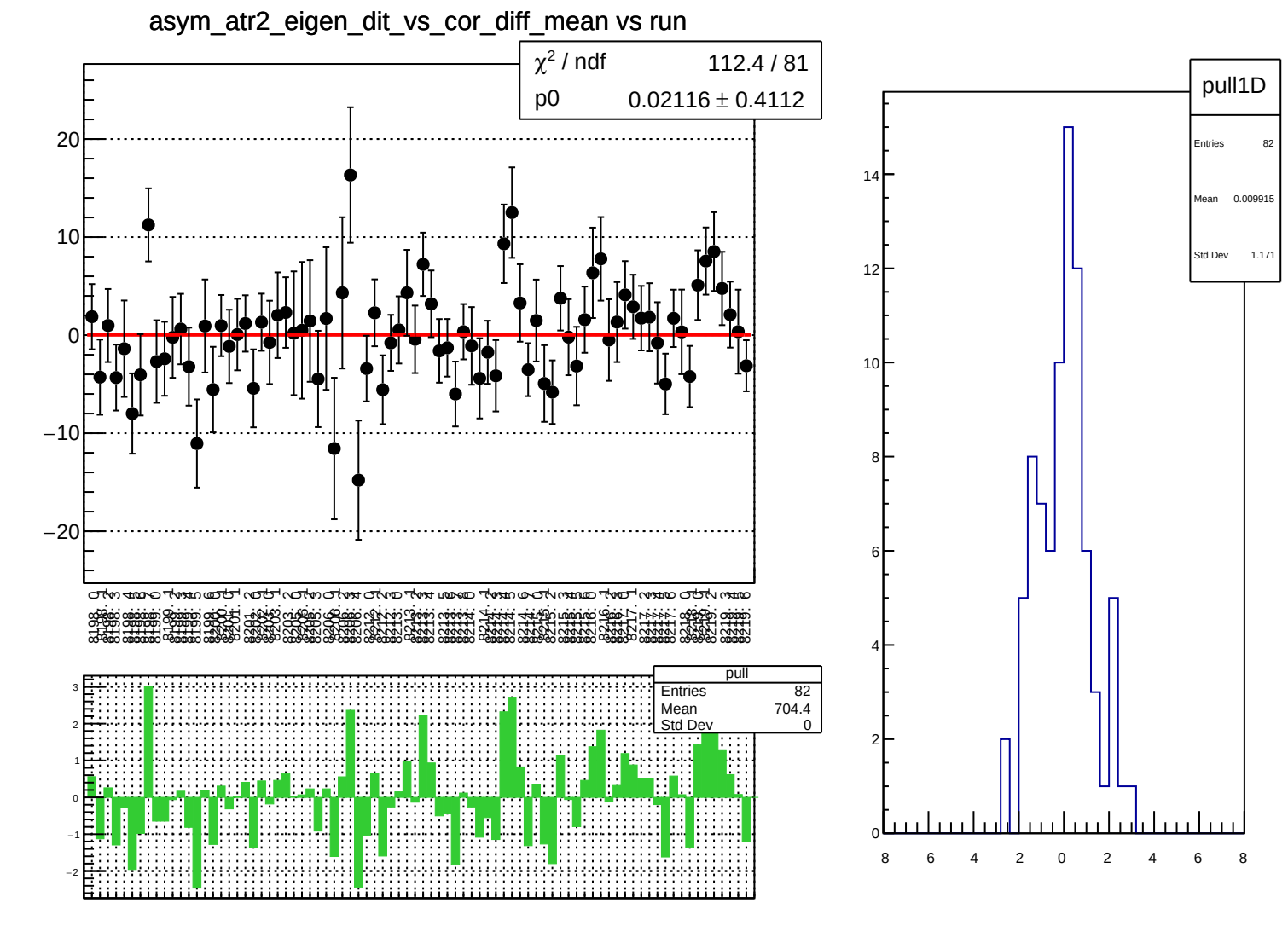

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.4 / 81
p0 0.02117 ± 0.4112
20
10
0
−10
−20
pull
Entries 82
Mean 704.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.009917
Std Dev 1.171
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

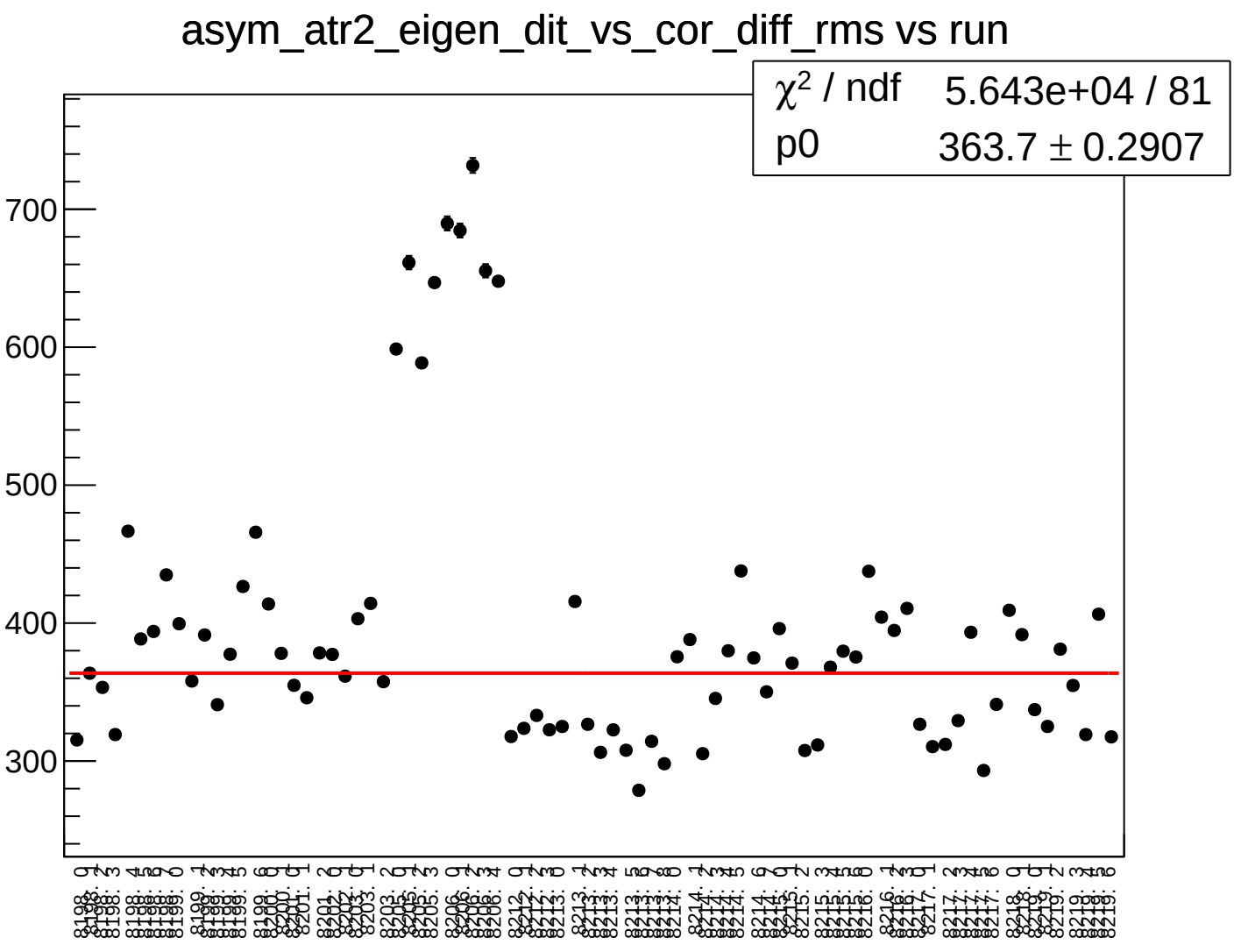

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.642e+04 / 81
p0 363.7 ± 0.2907
700
600
500
400
300

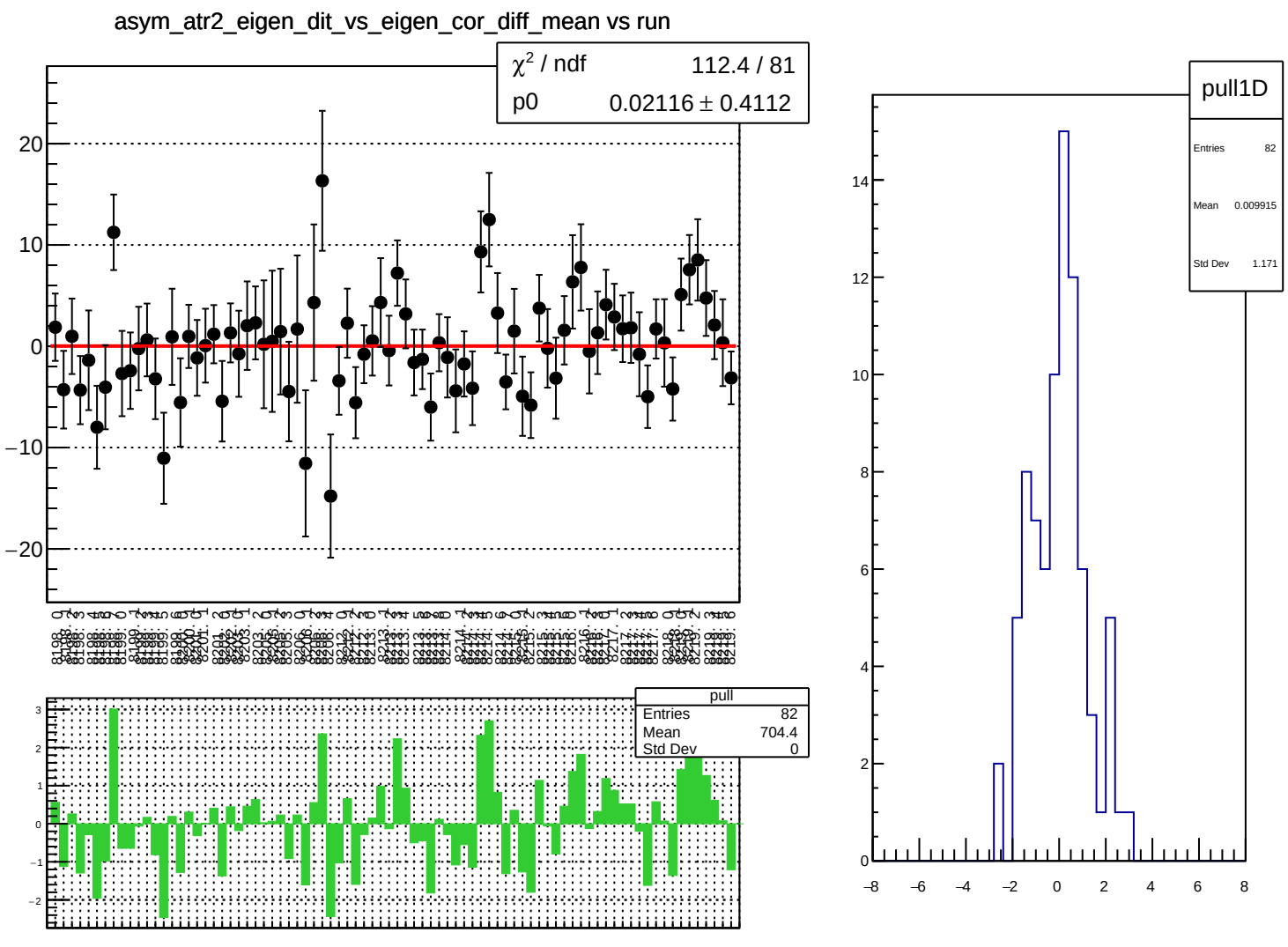

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 96 / 81
p0 −1.331e−05 ± 1.628e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean 105
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

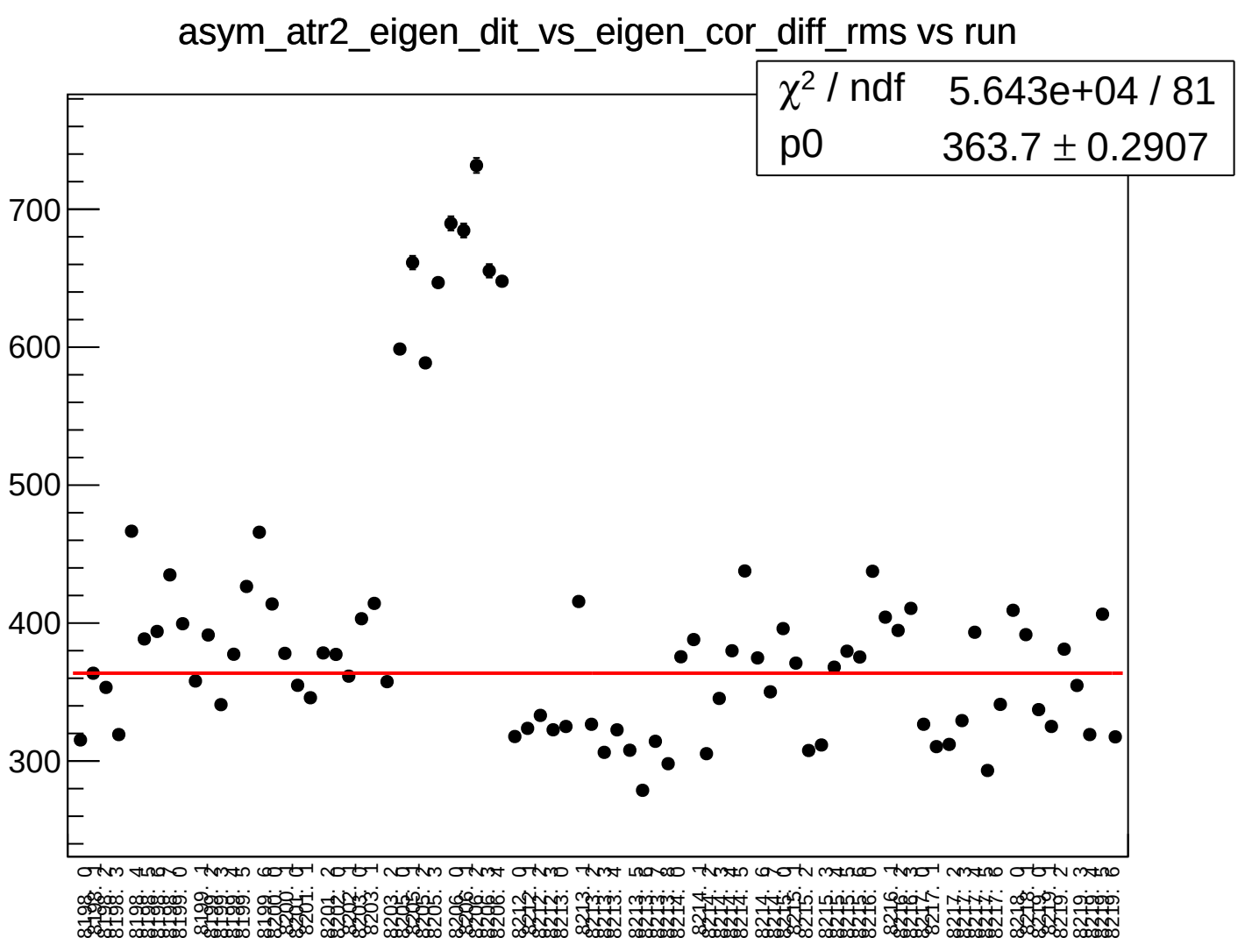

pull1D
Entries 82
Mean −0.03185
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

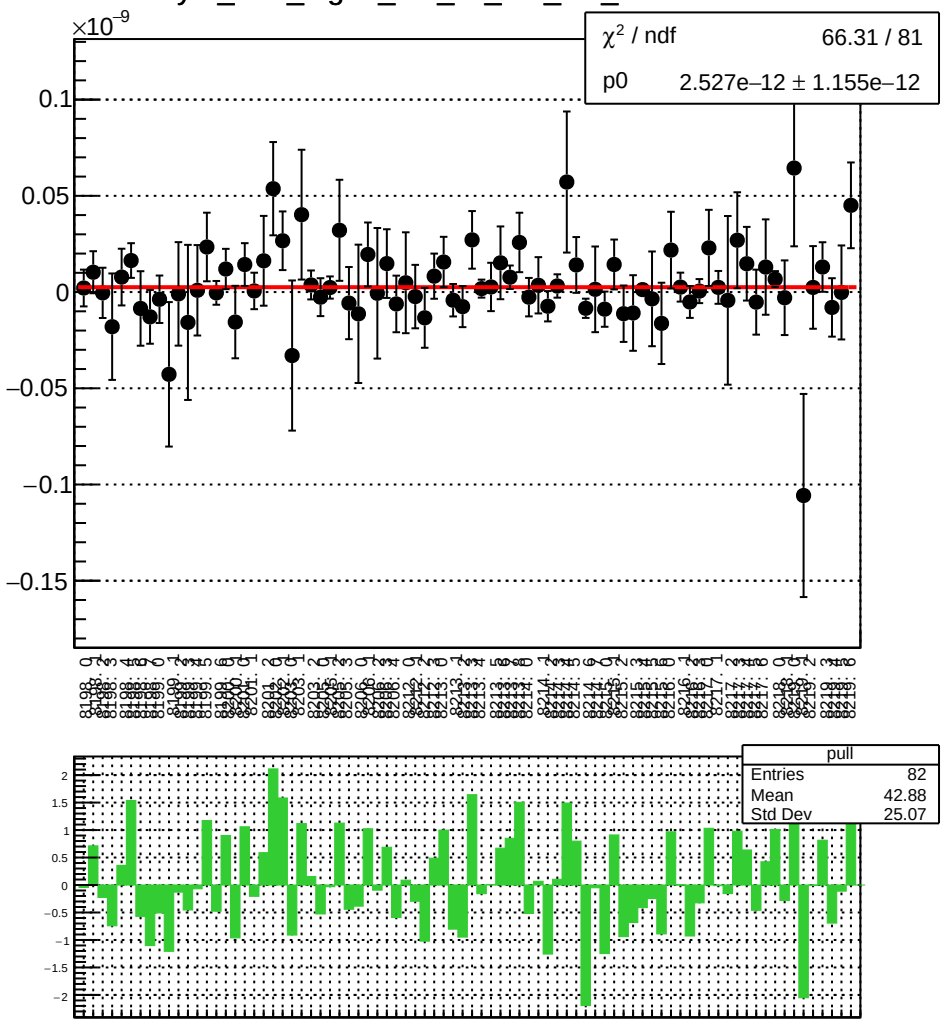

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.862e+05 / 81
p0 0.0128 ± 1.151e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

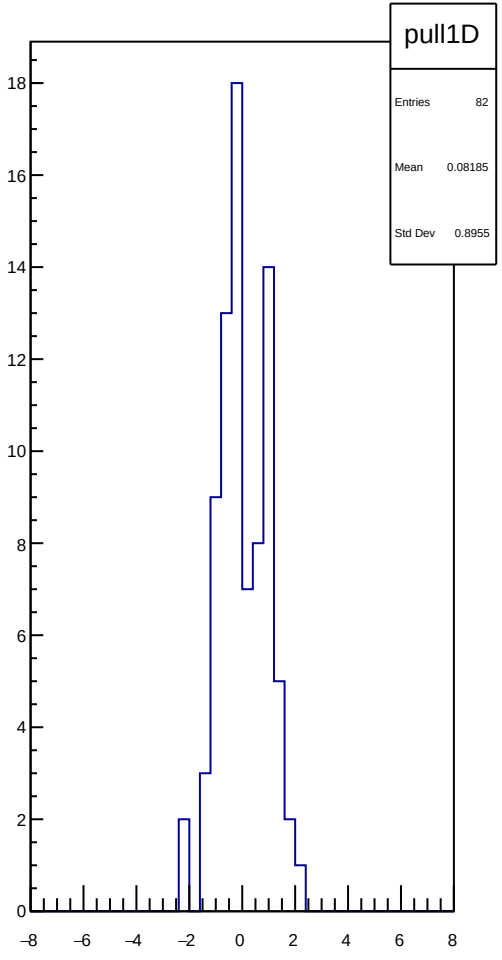

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.4 / 81
p0 0.02116 ± 0.4112
20
10
0
−10
−20
pull
Entries 82
Mean 704.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.009915
Std Dev 1.171
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

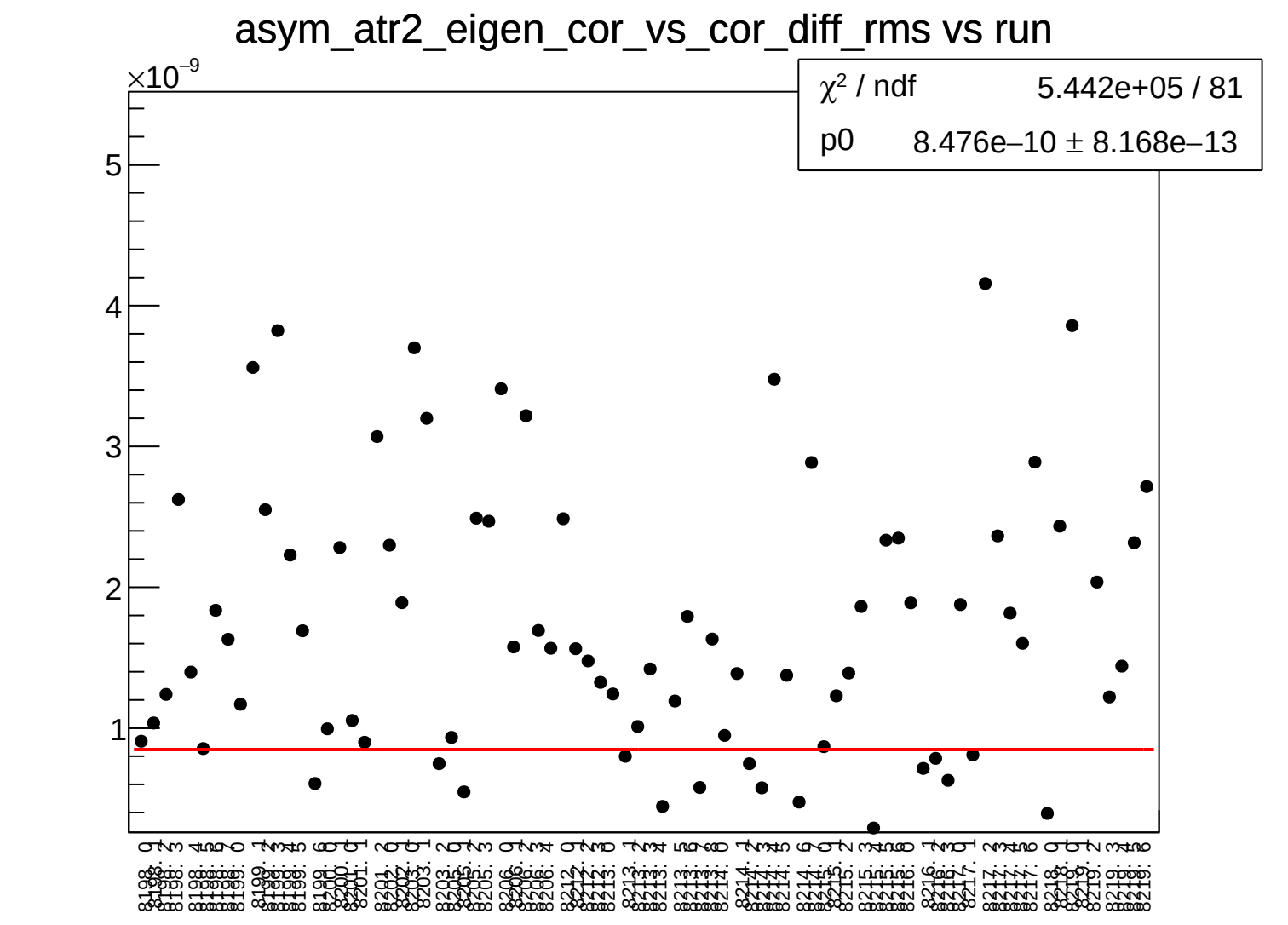

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.643e+04 / 81
p0 363.7 ± 0.2907
700
600
500
400
300

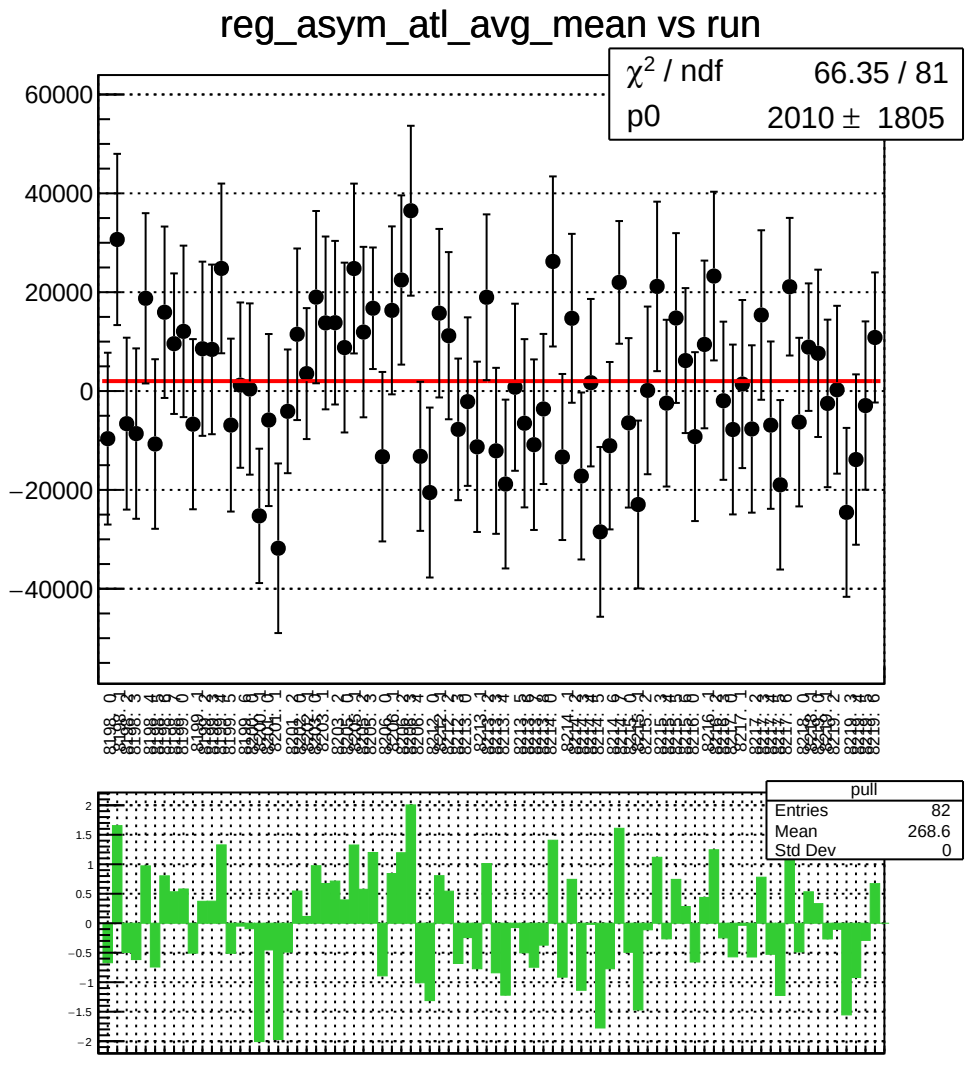

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.4 / 81
p0 0.02116 ± 0.4112
pull
Entries 82
Mean 704.4
Std Dev 0
pull1D
Entries 82
Mean 0.009915
Std Dev 1.171

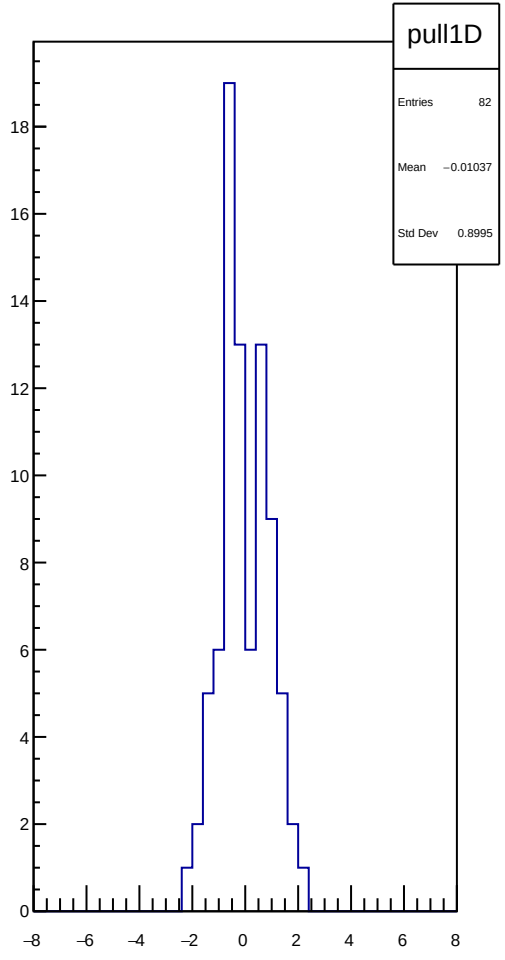

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.643e+04 / 81
p0 363.7 ± 0.2907
700
600
500
400
300

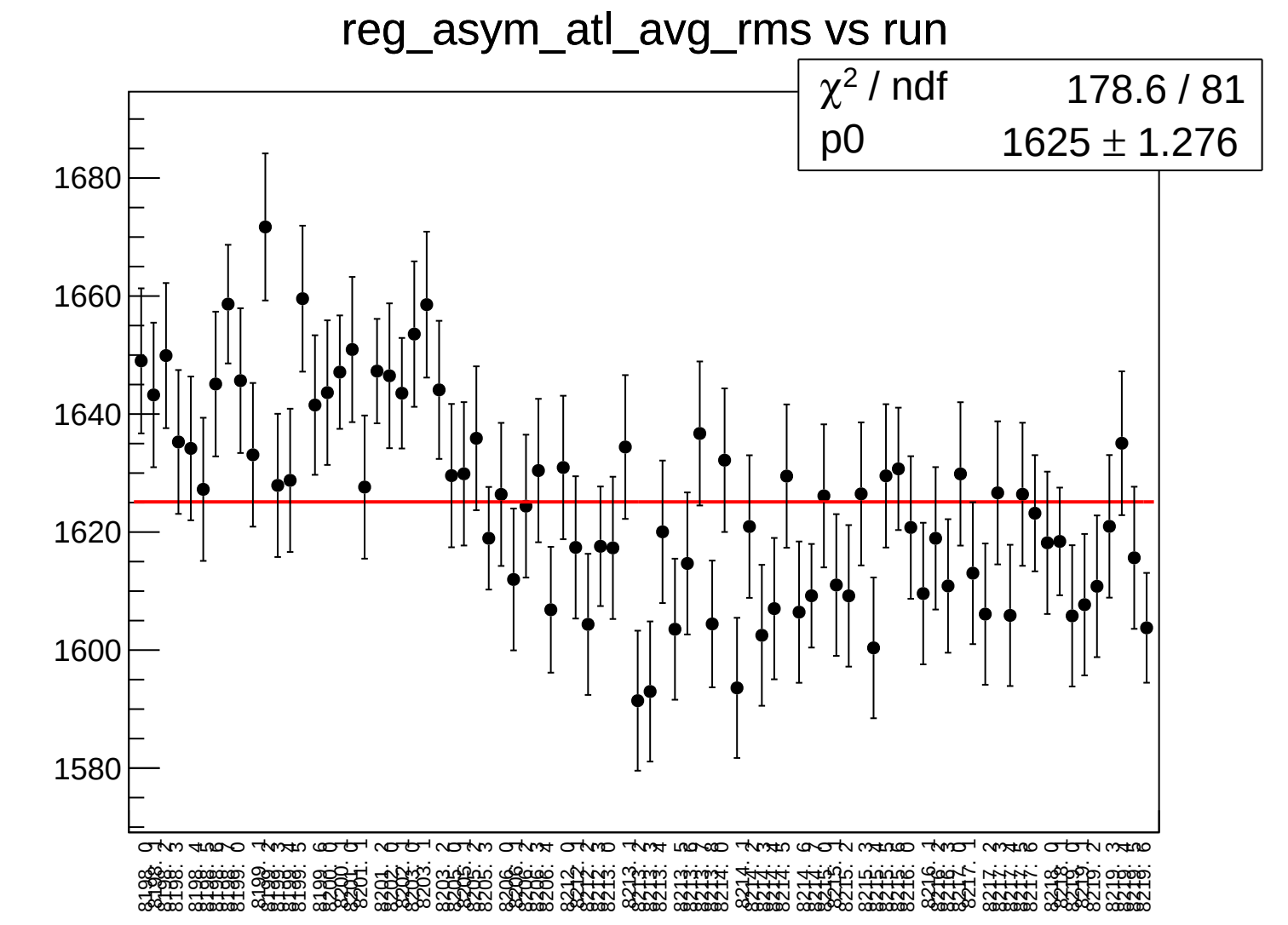

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 66.31 / 81
p0 2.527e−12 ± 1.155e−12
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 82
Mean 42.88
Std Dev 25.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

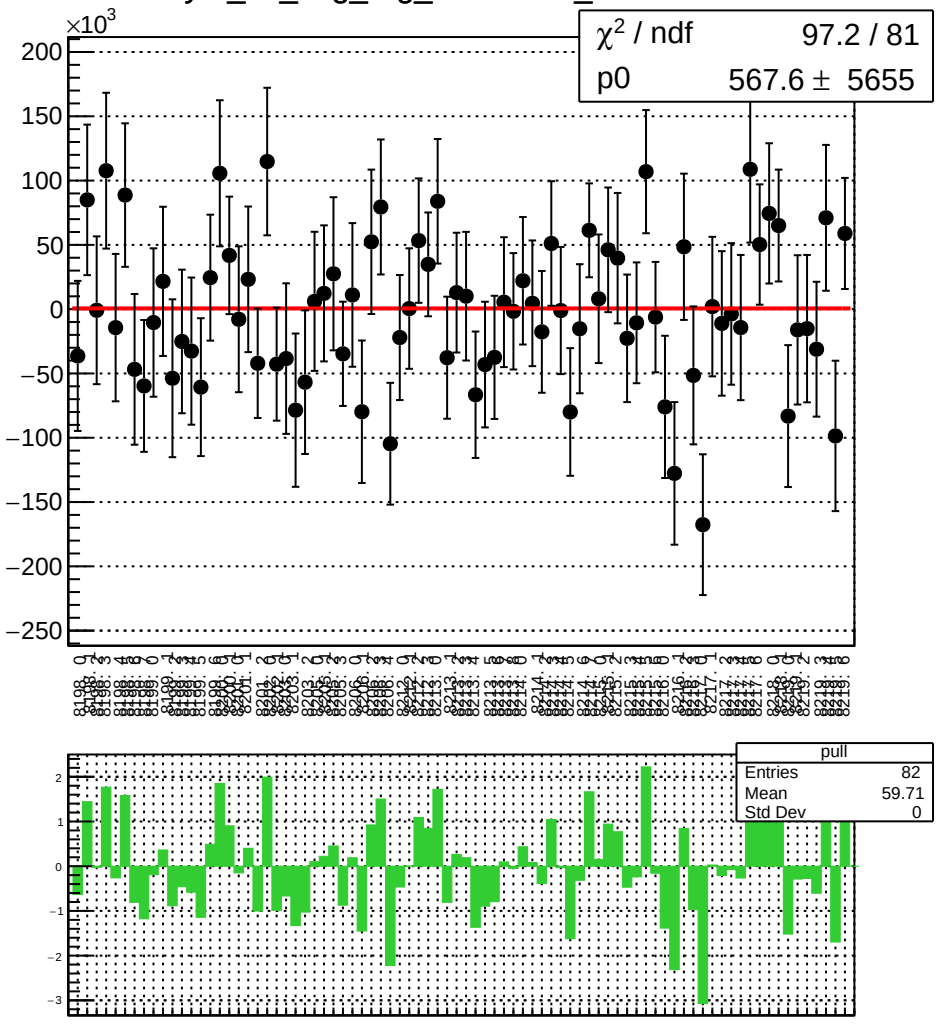

pull1D
Entries 82
Mean 0.08185
Std Dev 0.8955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

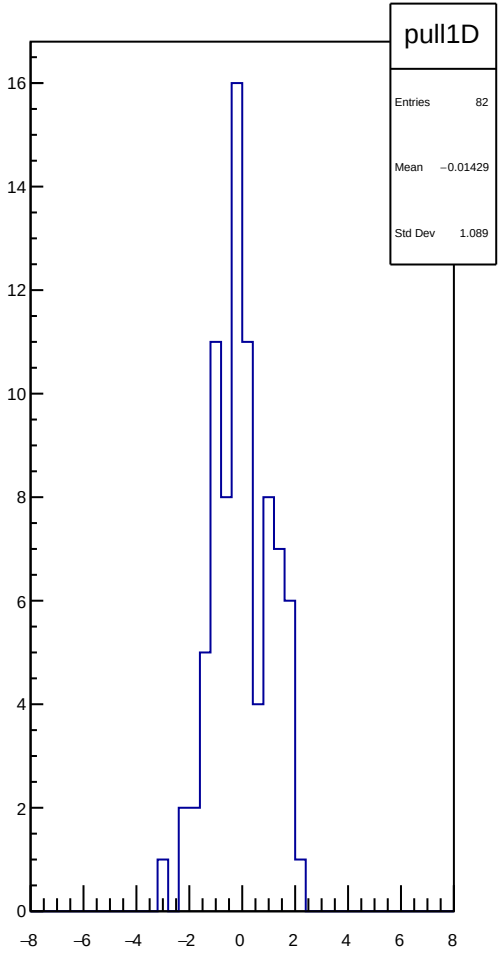

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.442e+05 / 81
p0 8.476e−10 ± 8.168e−13
5
4
3
2
1

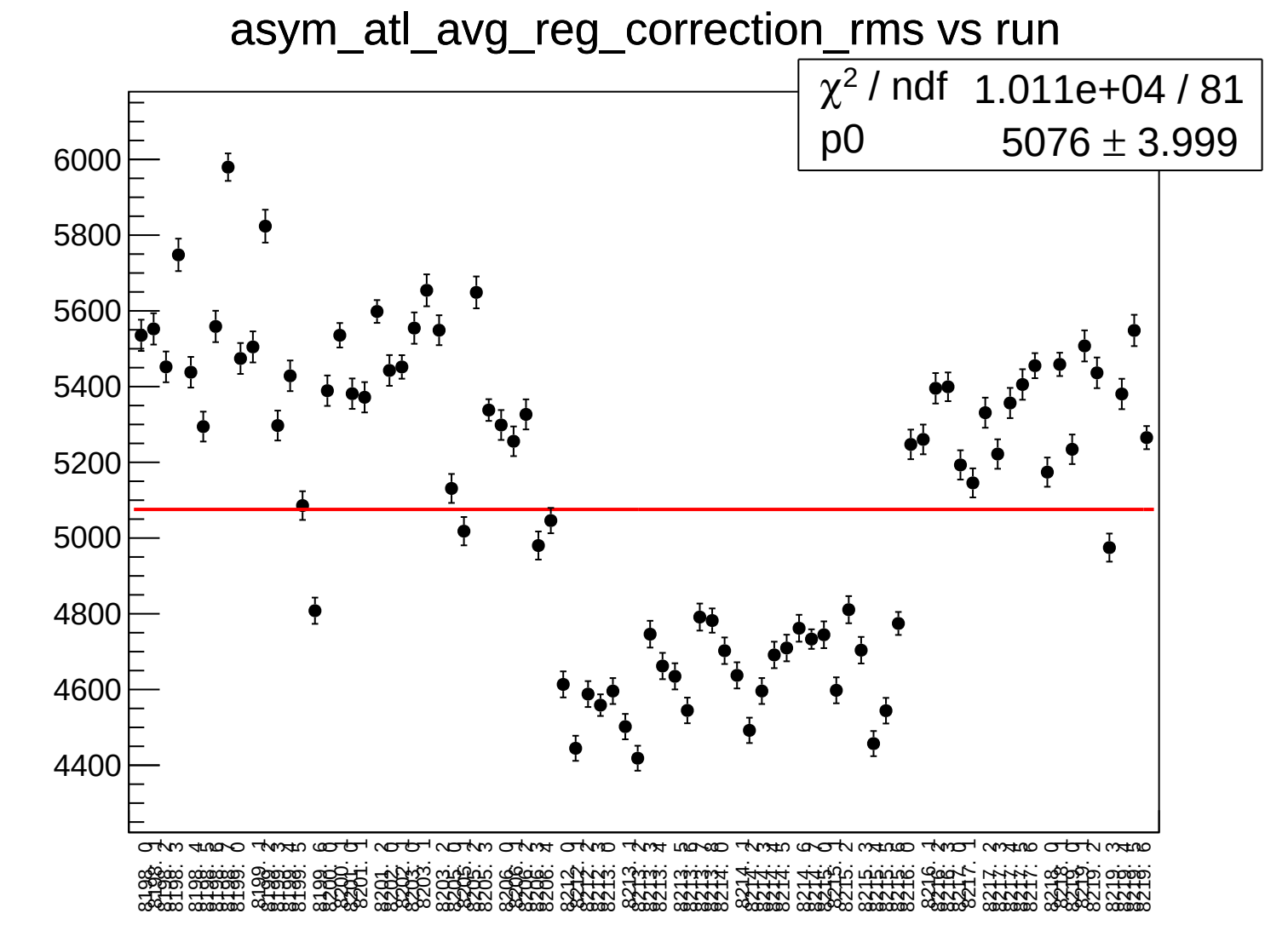

reg_asym_atl_avg_mean vs run
χ² / ndf 66.35 / 81
p0 2010 ± 1805
pull
Entries 82
Mean 268.6
Std Dev 0

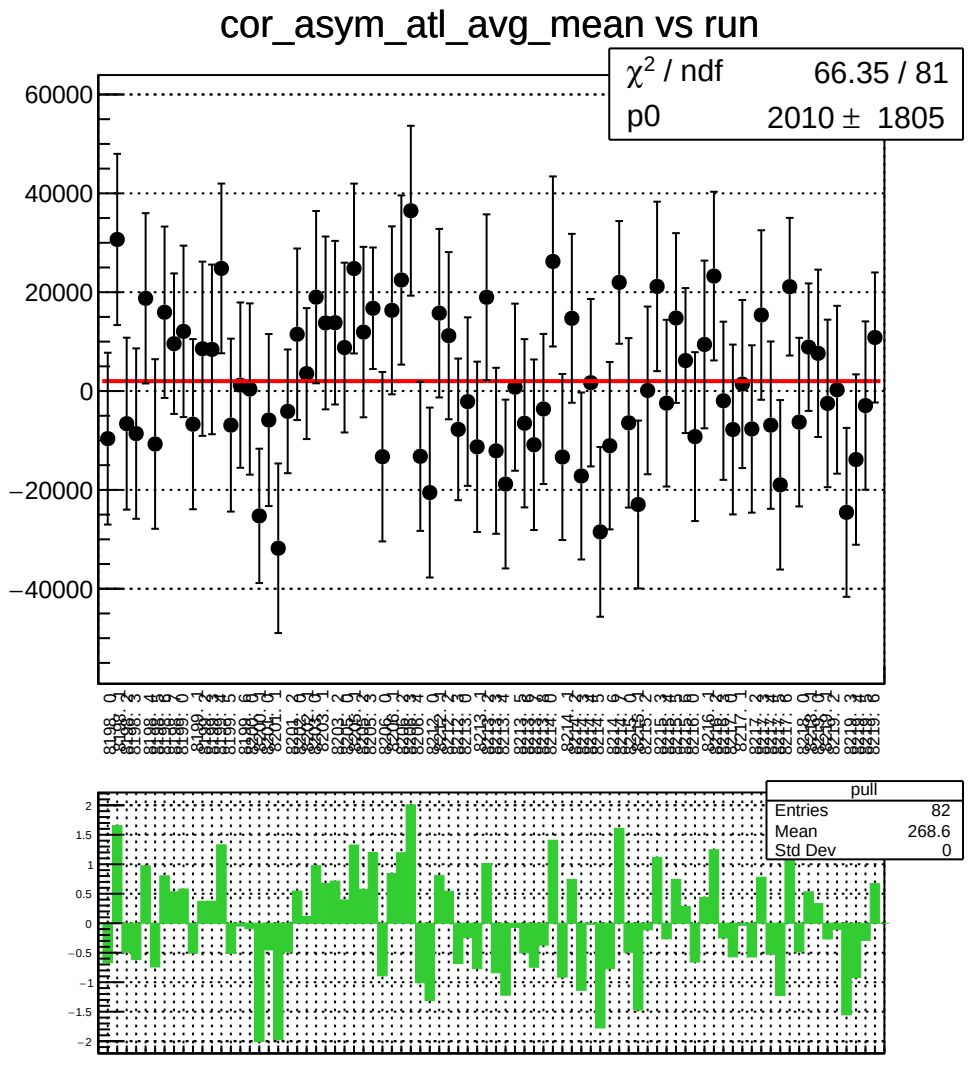

pull1D
Entries 82
Mean −0.01037
Std Dev 0.8995

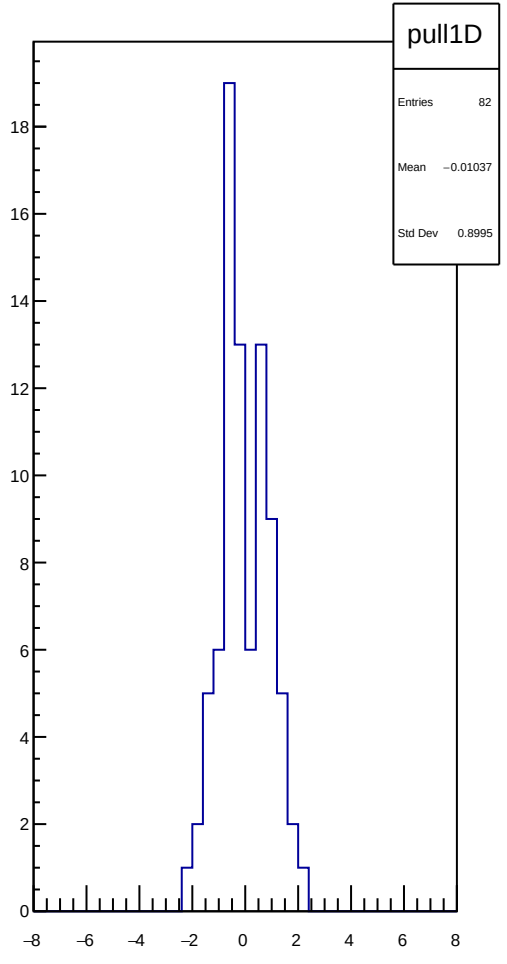

reg_asym_atl_avg_rms vs run
χ² / ndf 178.6 / 81
p0 1625 ± 1.276
1680
1660
1640
1620
1600
1580

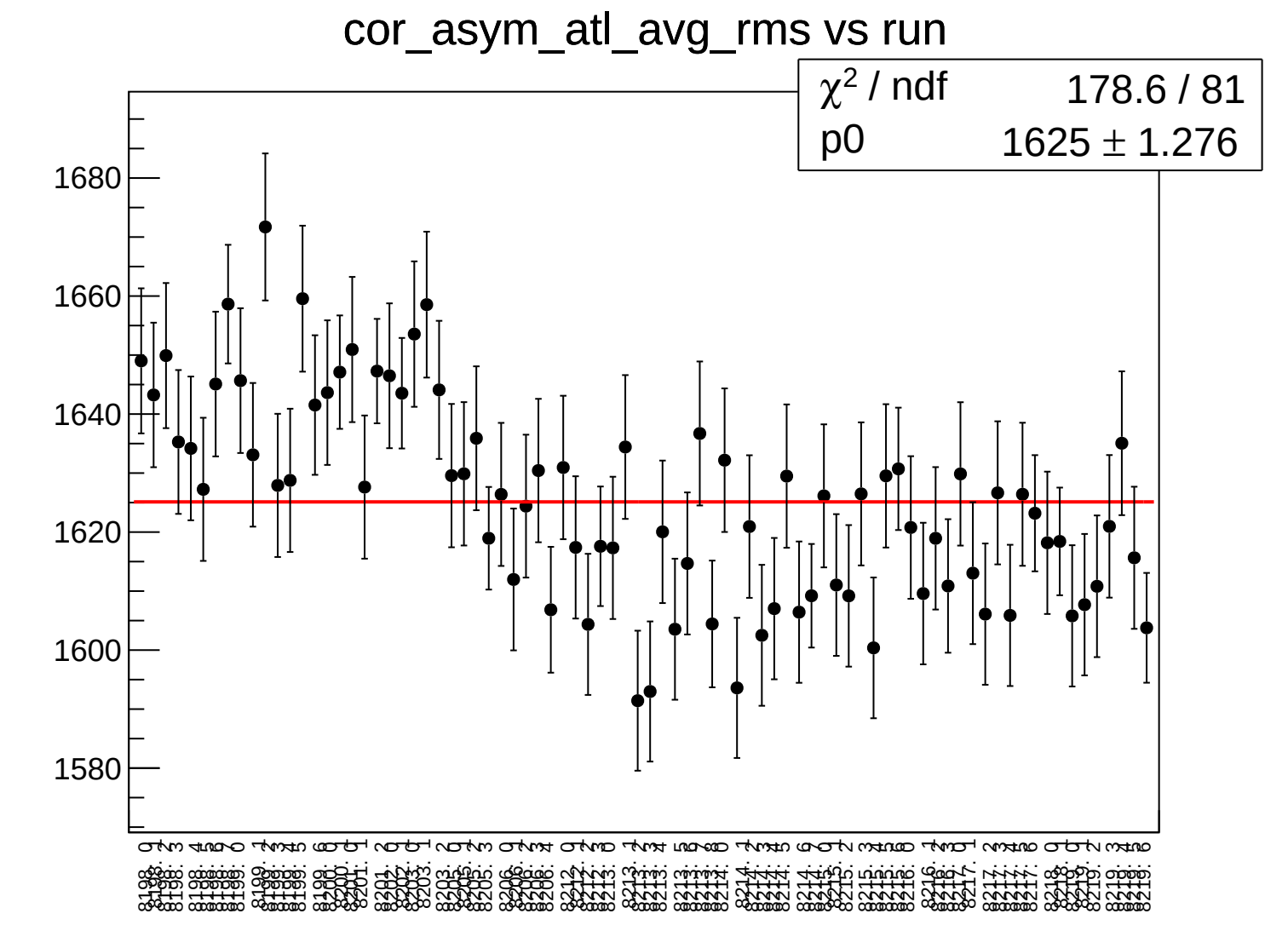

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.2 / 81
p0 567.6 ± 5655
pull
Entries 82
Mean 59.71
Std Dev 0

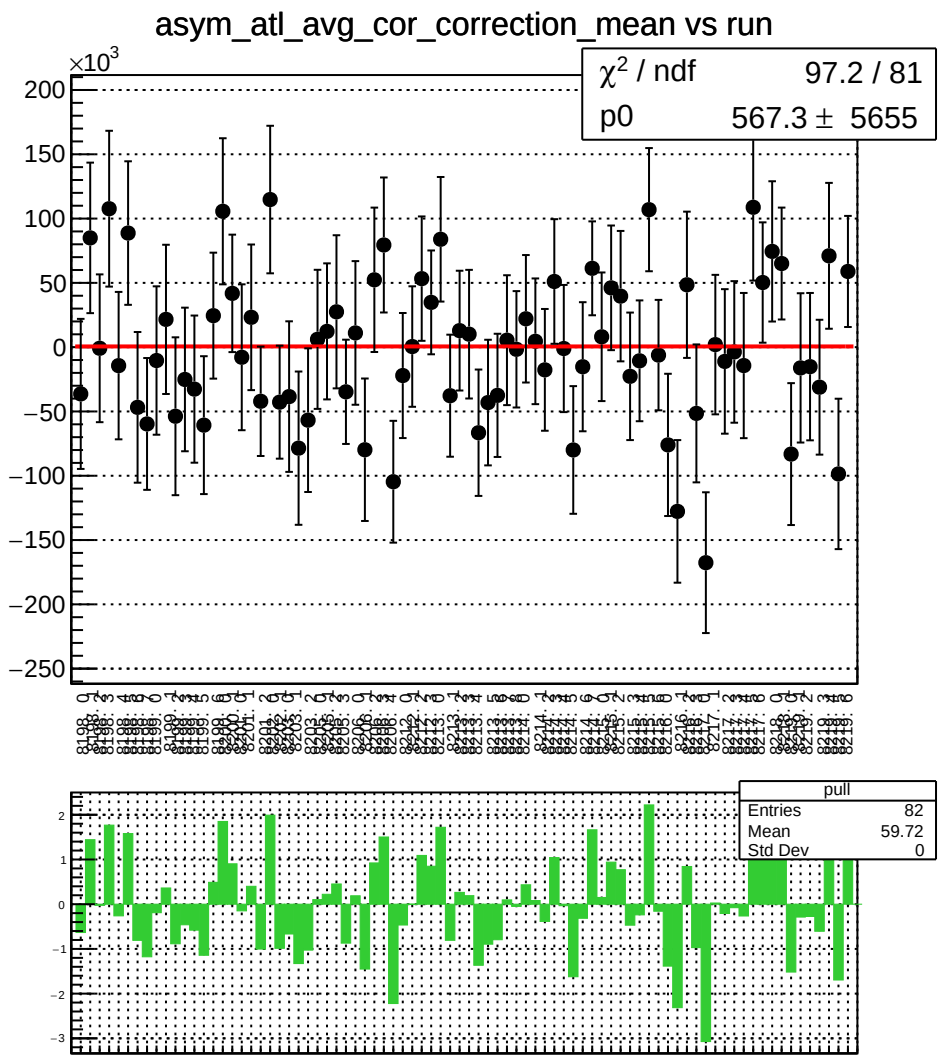

pull1D
Entries 82
Mean −0.01429
Std Dev 1.089

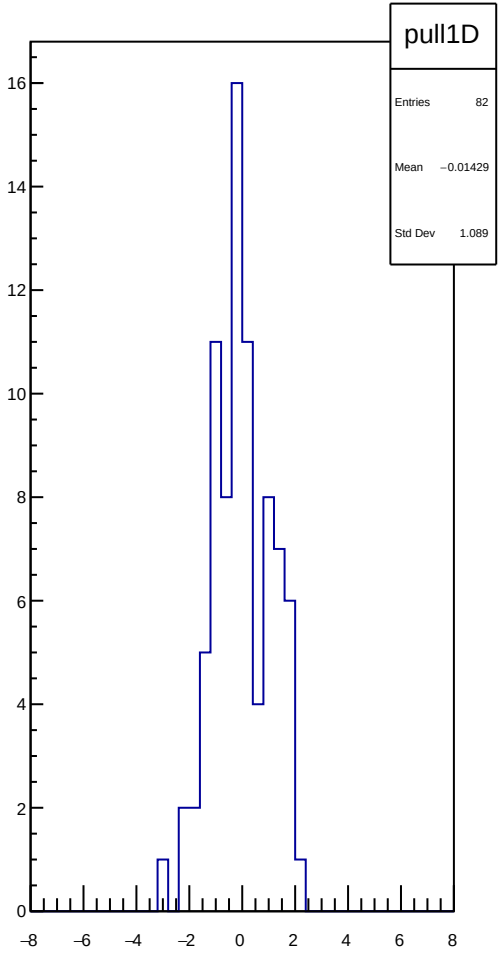

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.011e+04 / 81
p0 5076 ± 3.999
6000
5800
5600
5400
5200
5000
4800
4600
4400

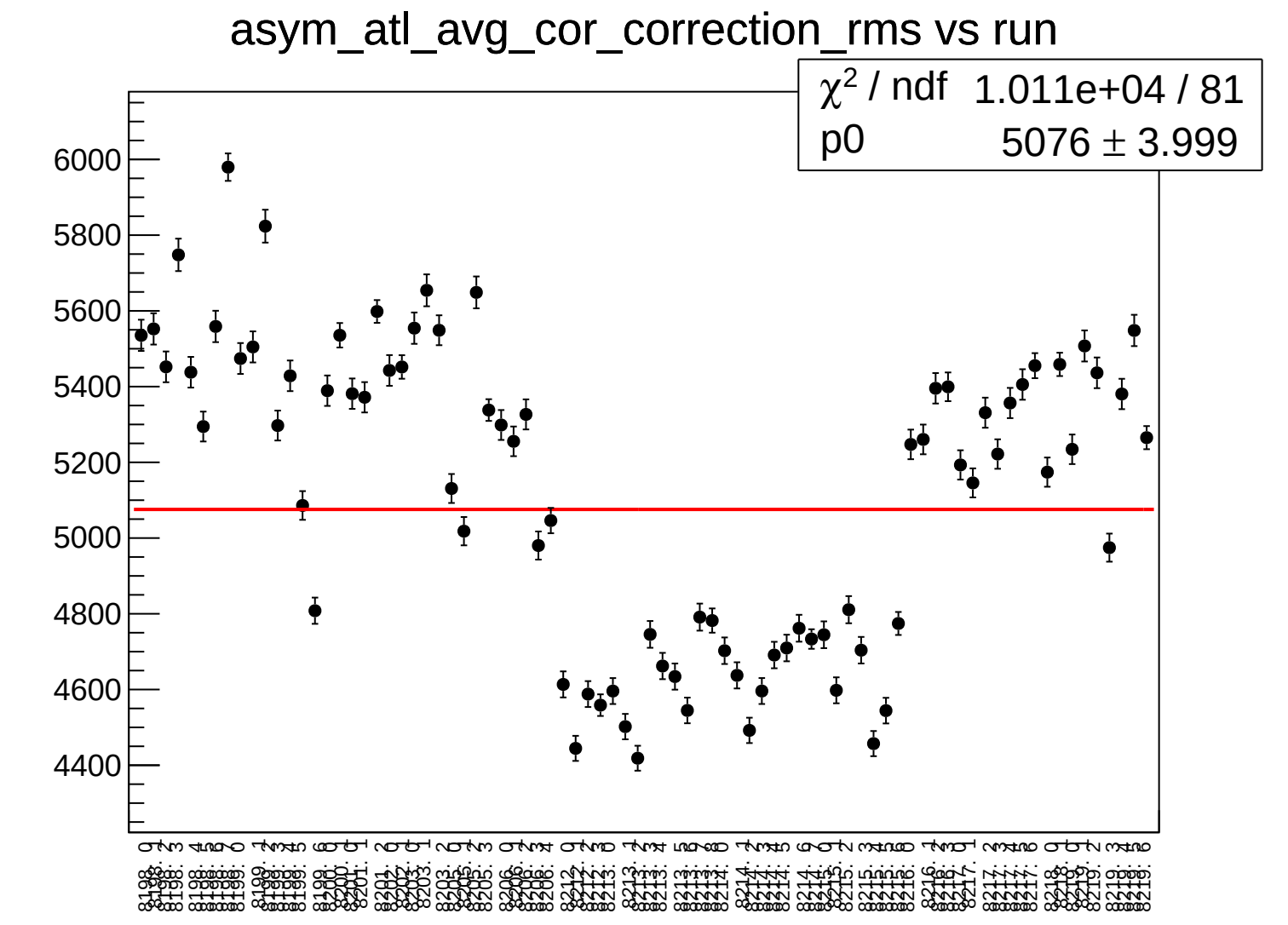

cor_asym_atl_avg_mean vs run
χ² / ndf 66.35 / 81
p0 2010 ± 1805
pull
Entries 82
Mean 268.6
Std Dev 0

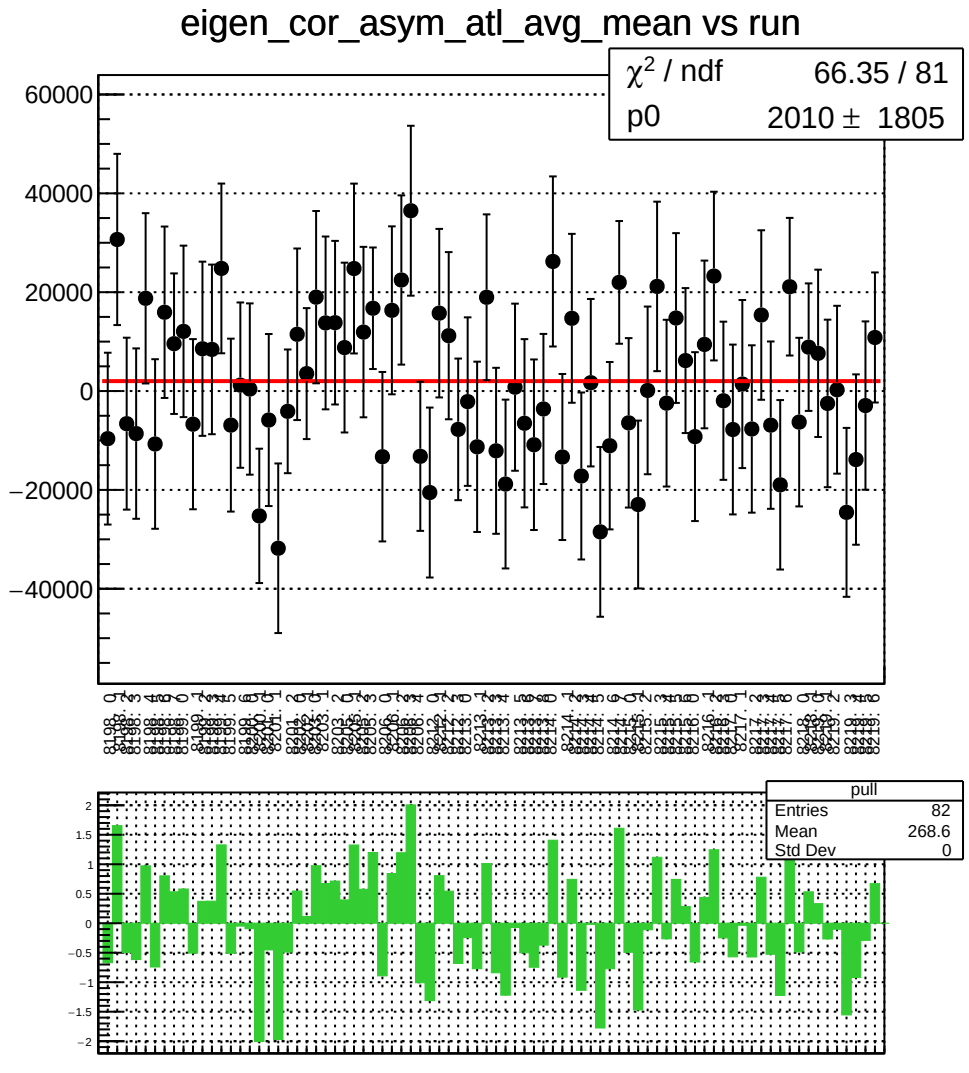

pull1D
Entries 82
Mean −0.01037
Std Dev 0.8995

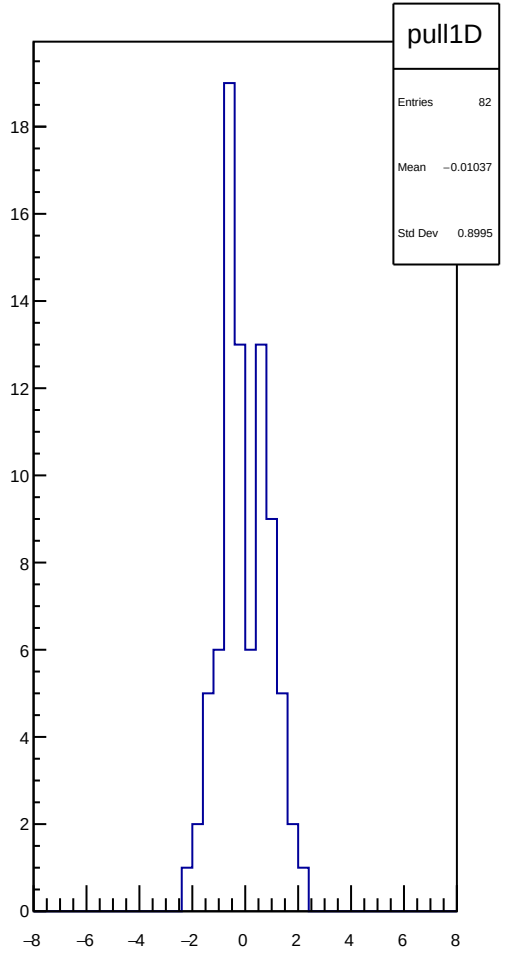

cor_asym_atl_avg_rms vs run
$\chi^2$ / ndf 178.6 / 81
p0 1625 ± 1.276
1680
1660
1640
1620
1600
1580

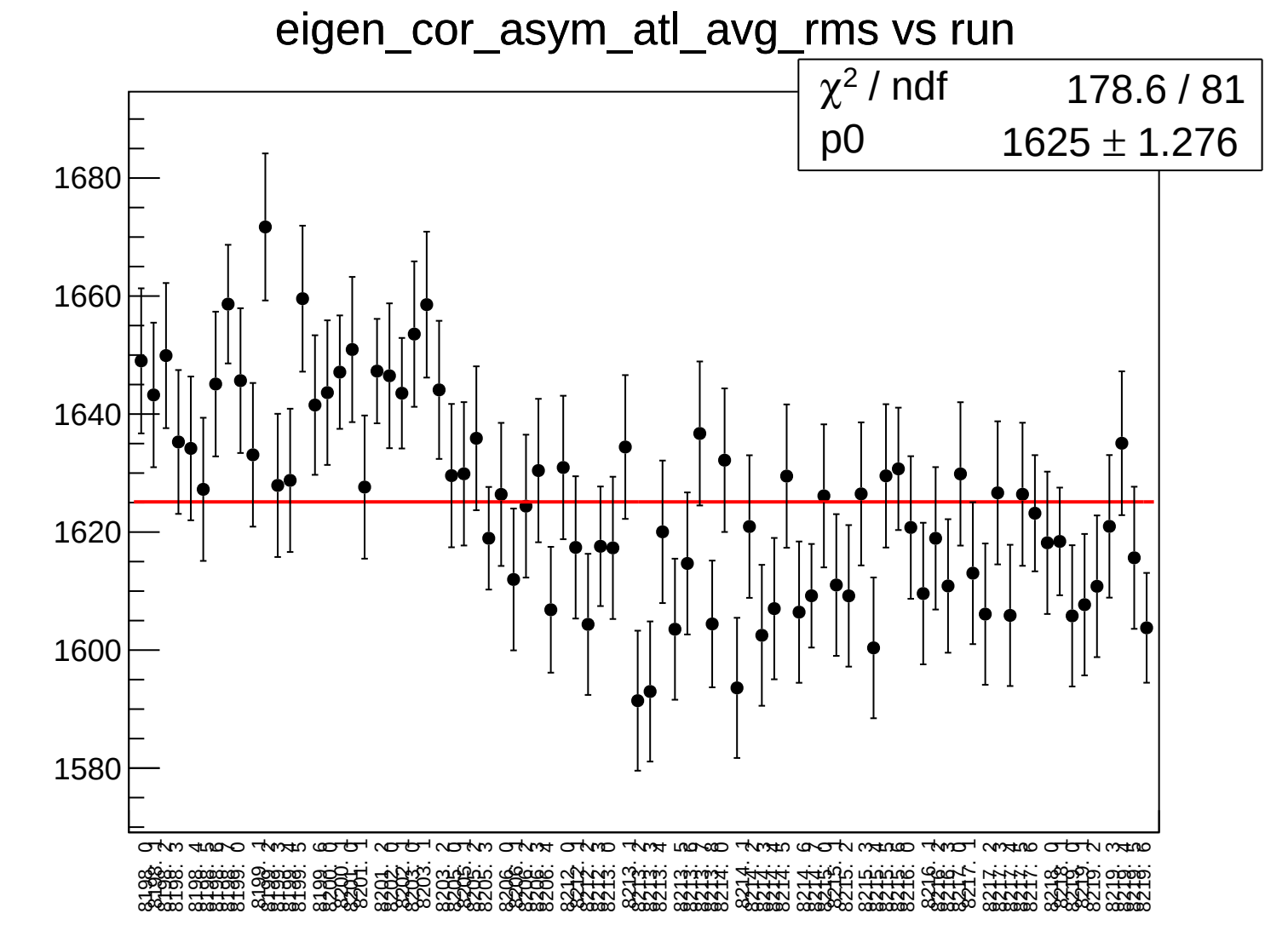

asym_atl_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.2 / 81
p0 567.3 ± 5655
pull
Entries 82
Mean 59.72
Std Dev 0

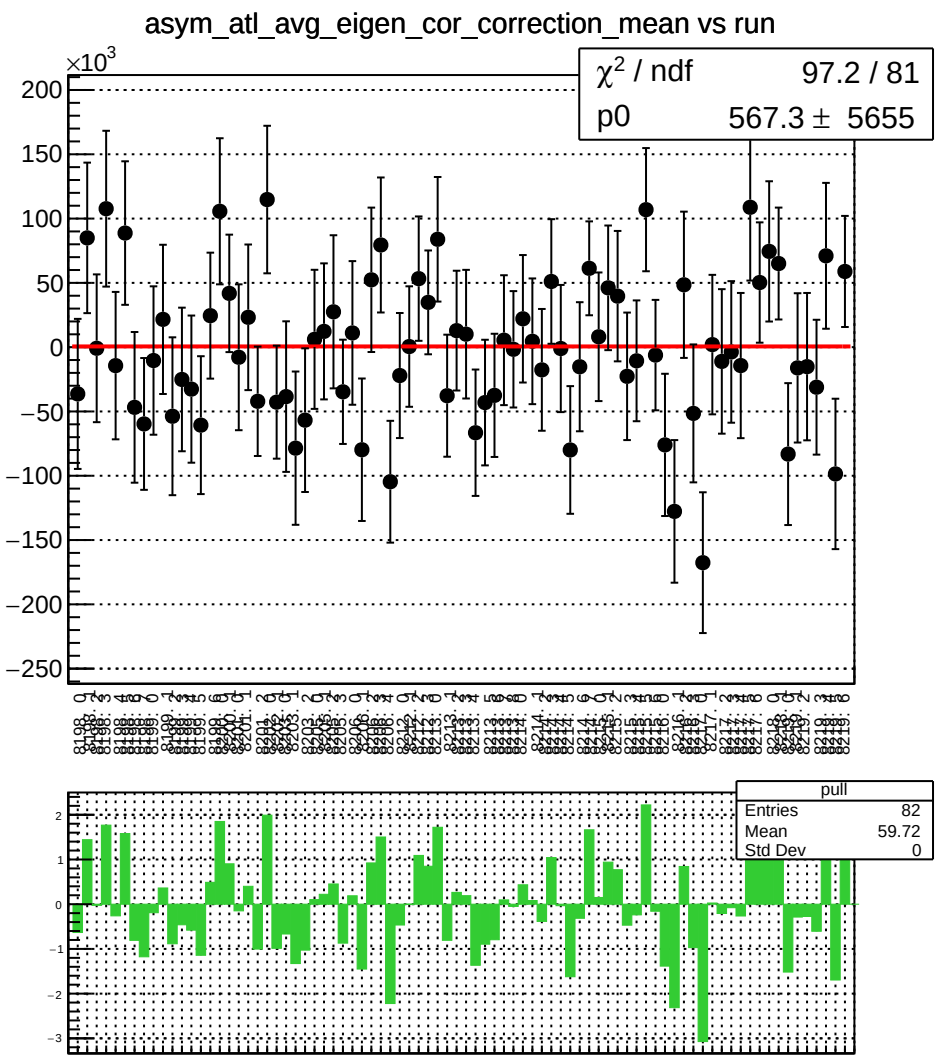

pull1D
Entries 82
Mean −0.01429
Std Dev 1.089

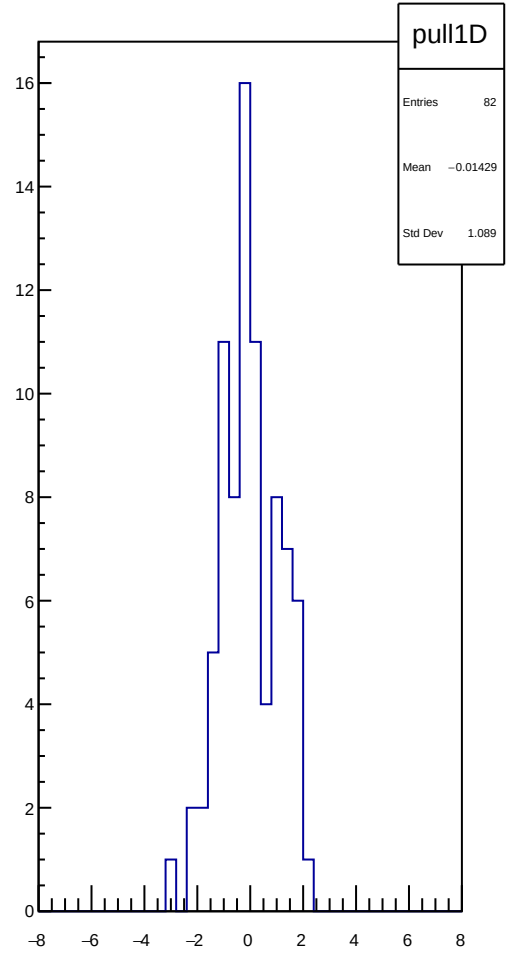

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.011e+04 / 81
p0 5076 ± 3.999
6000
5800
5600
5400
5200
5000
4800
4600
4400

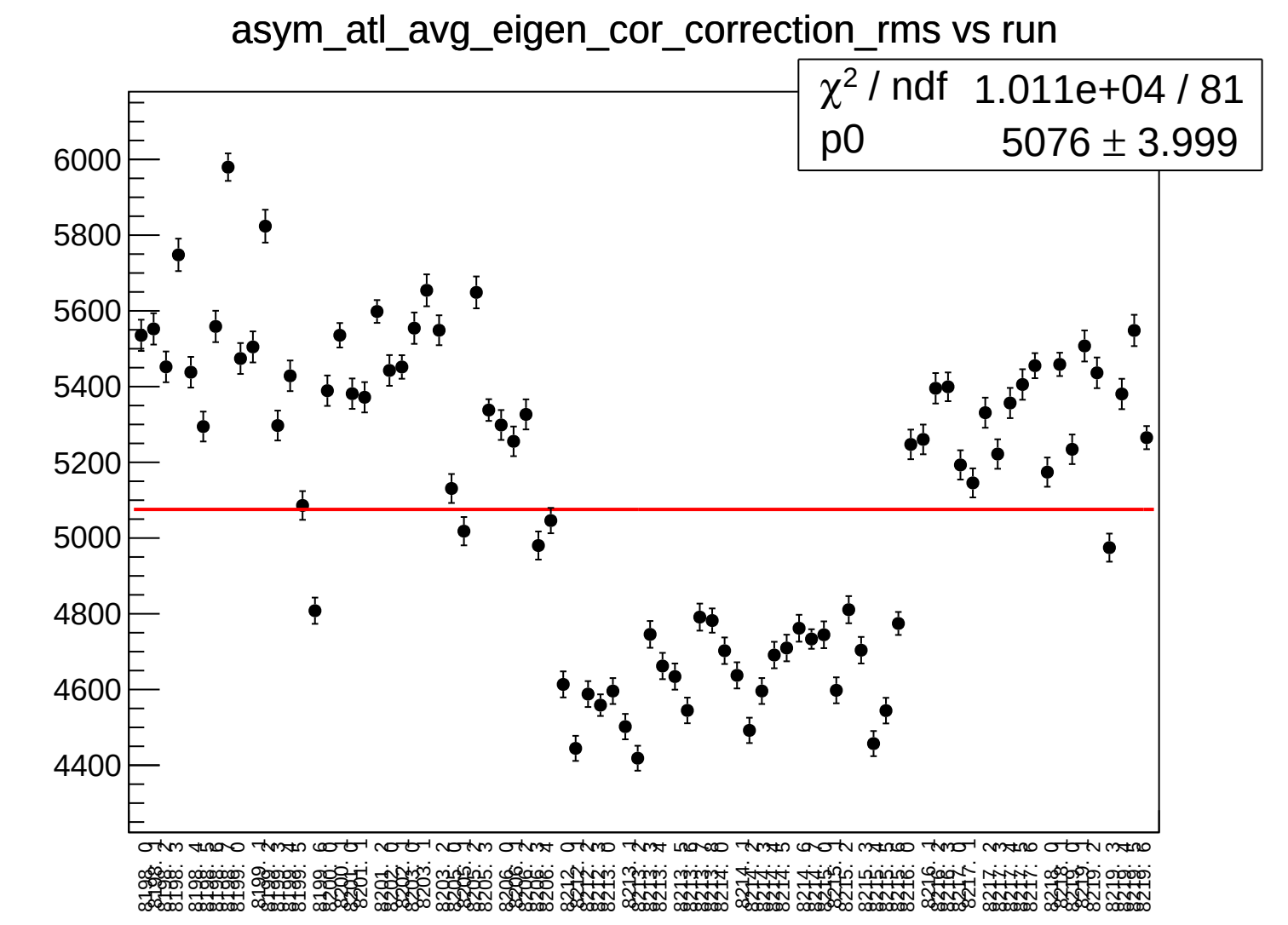

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 66.35 / 81
p0 2010 ± 1805
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 268.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

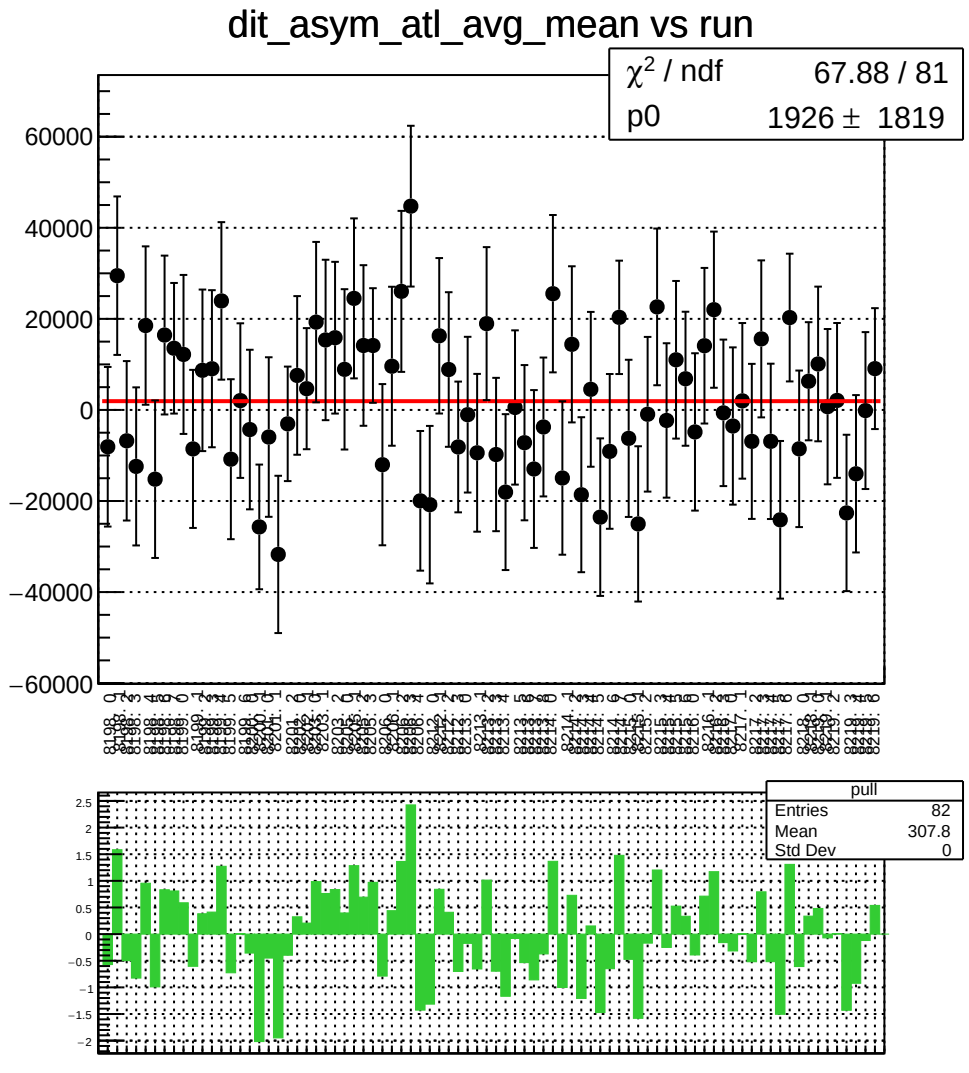

pull1D
Entries 82
Mean −0.01037
Std Dev 0.8995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

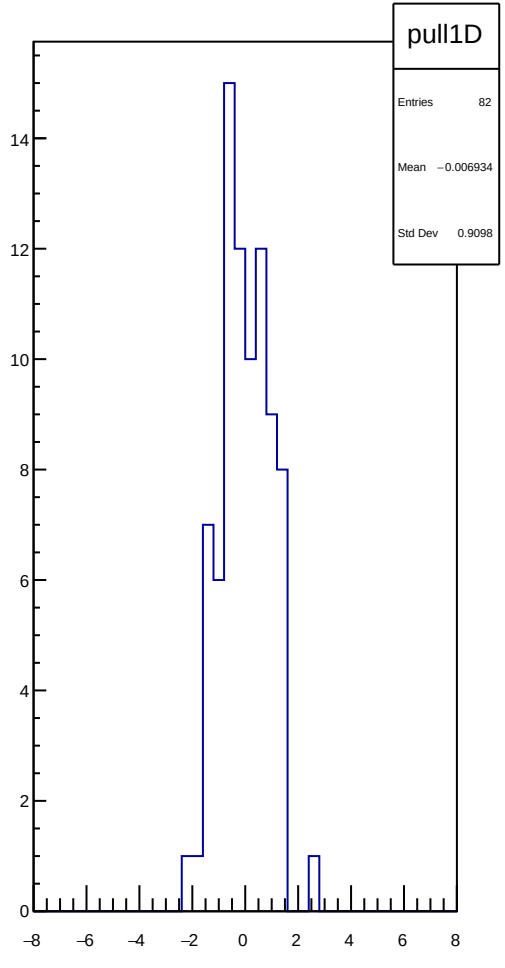

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 178.6 / 81
p0 1625 ± 1.276
1680
1660
1640
1620
1600
1580

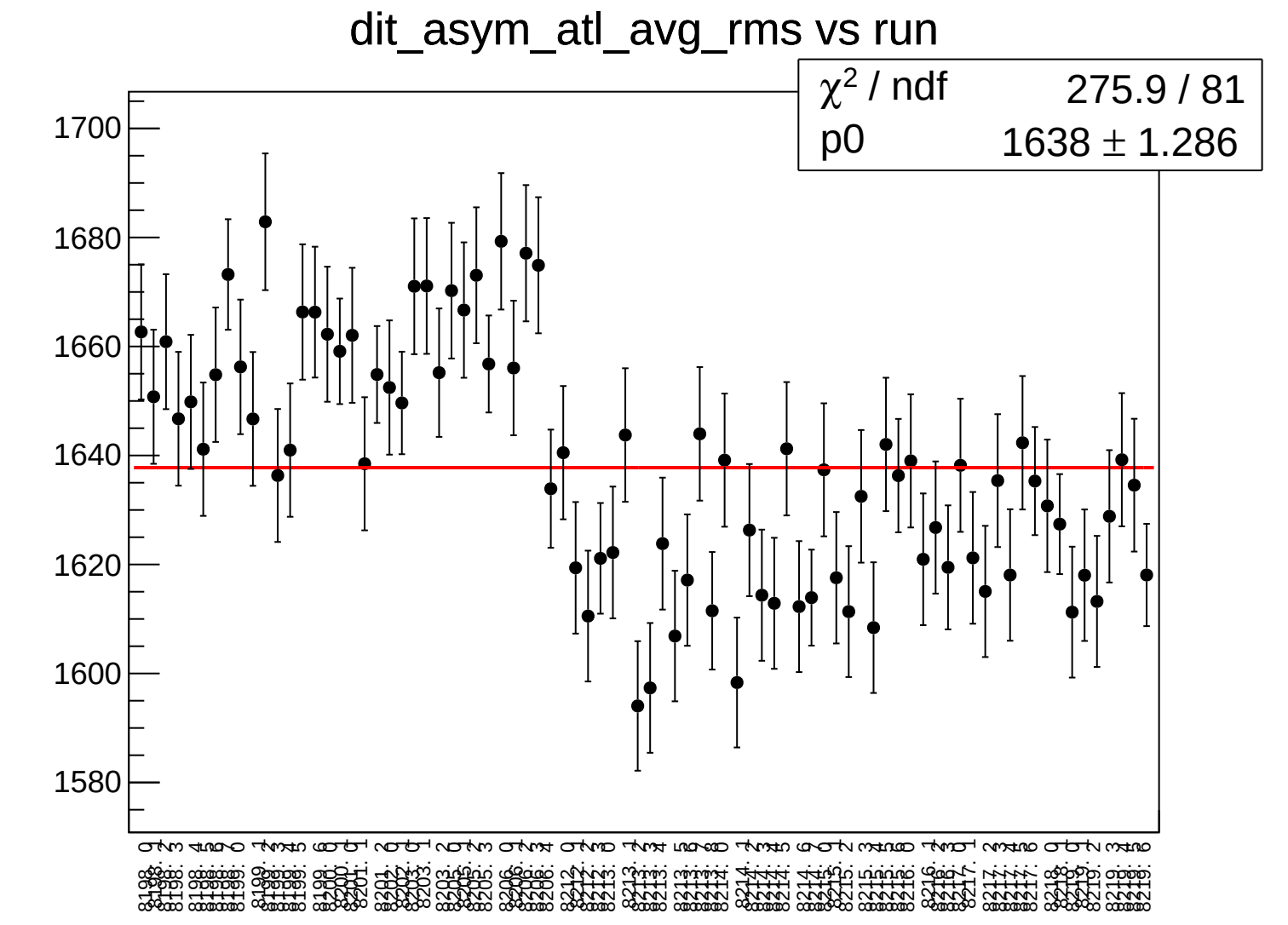

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.2 / 81
p0 567.3 ± 5655
pull
Entries 82
Mean 59.72
Std Dev 0

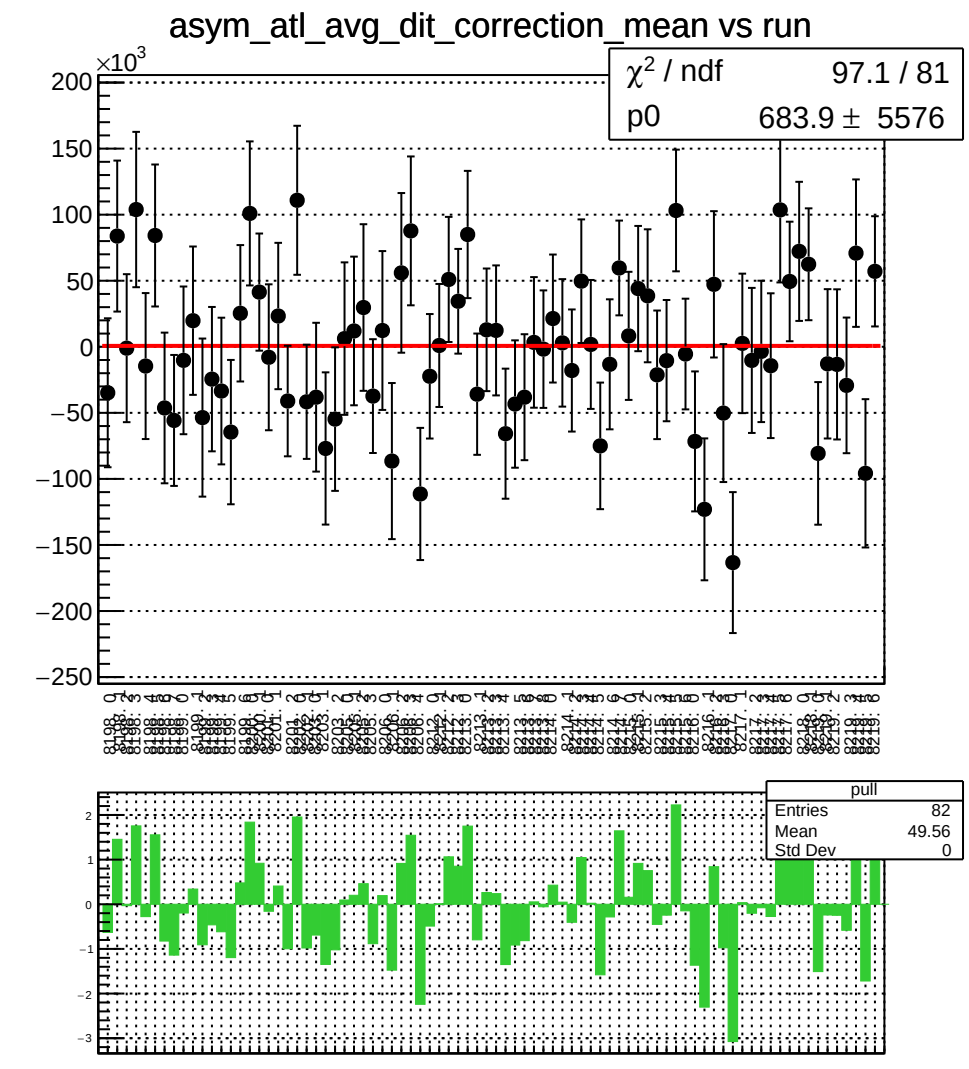

pull1D
Entries 82
Mean −0.01429
Std Dev 1.089

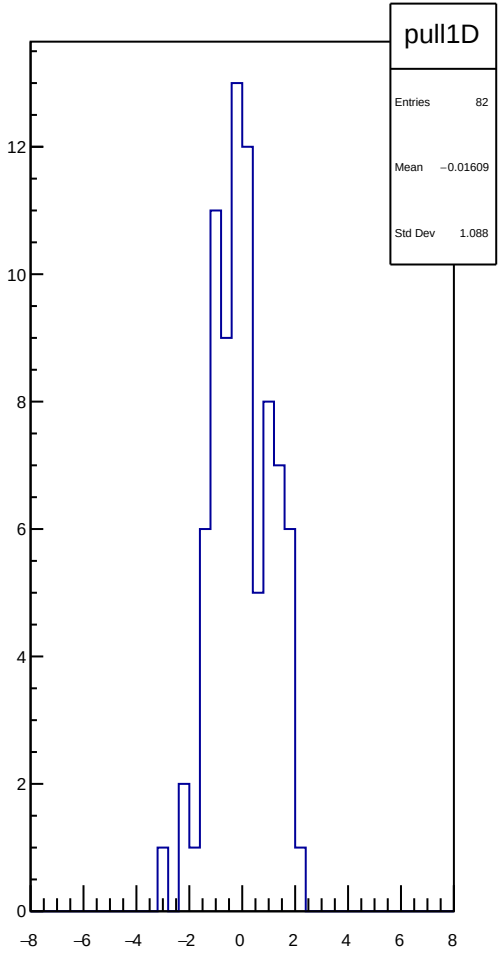

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.011e+04 / 81
p0 5076 ± 3.999
6000
5800
5600
5400
5200
5000
4800
4600
4400

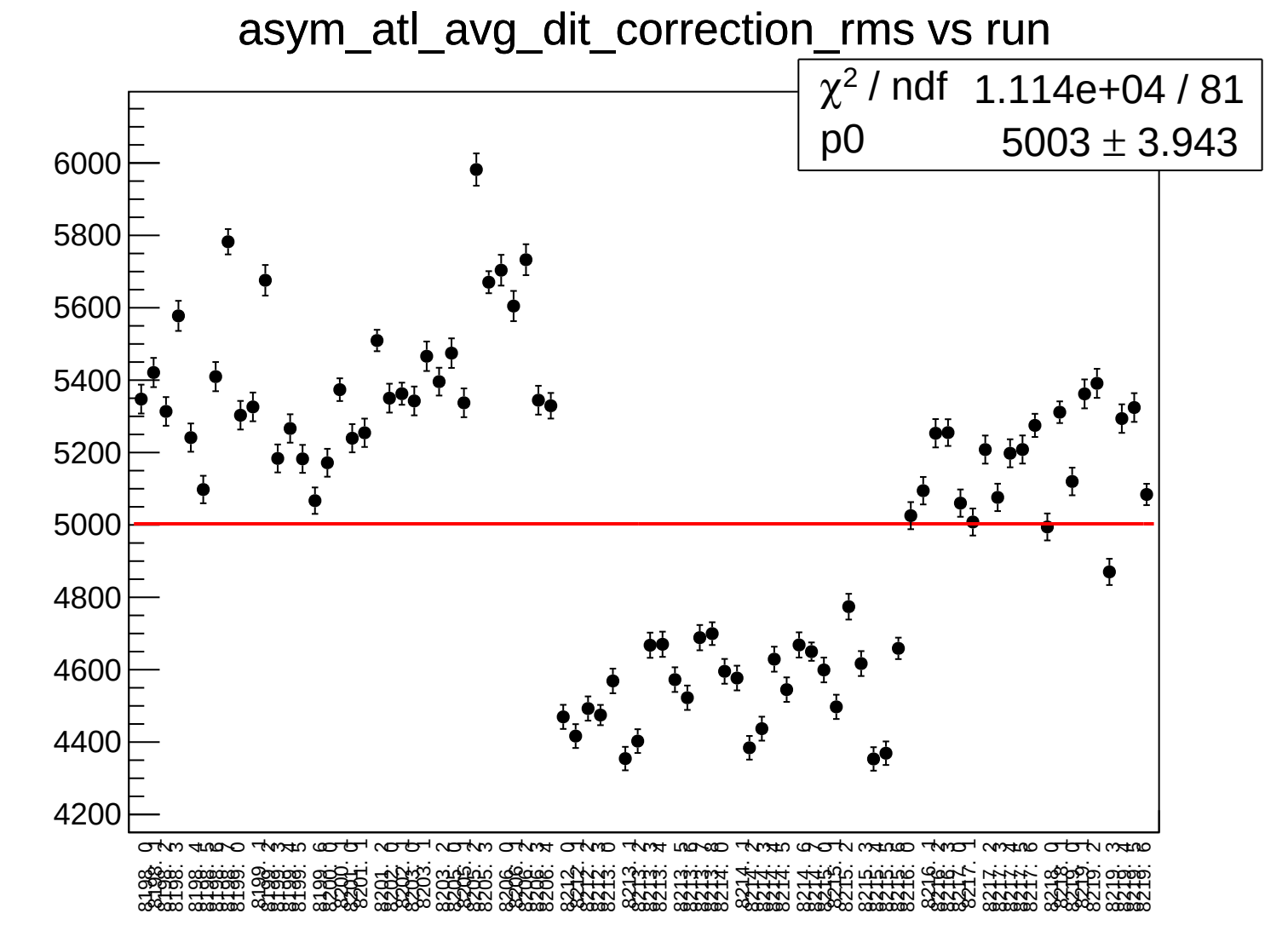

dit_asym_atl_avg_mean vs run
χ² / ndf 67.88 / 81
p0 1926 ± 1819
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 307.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

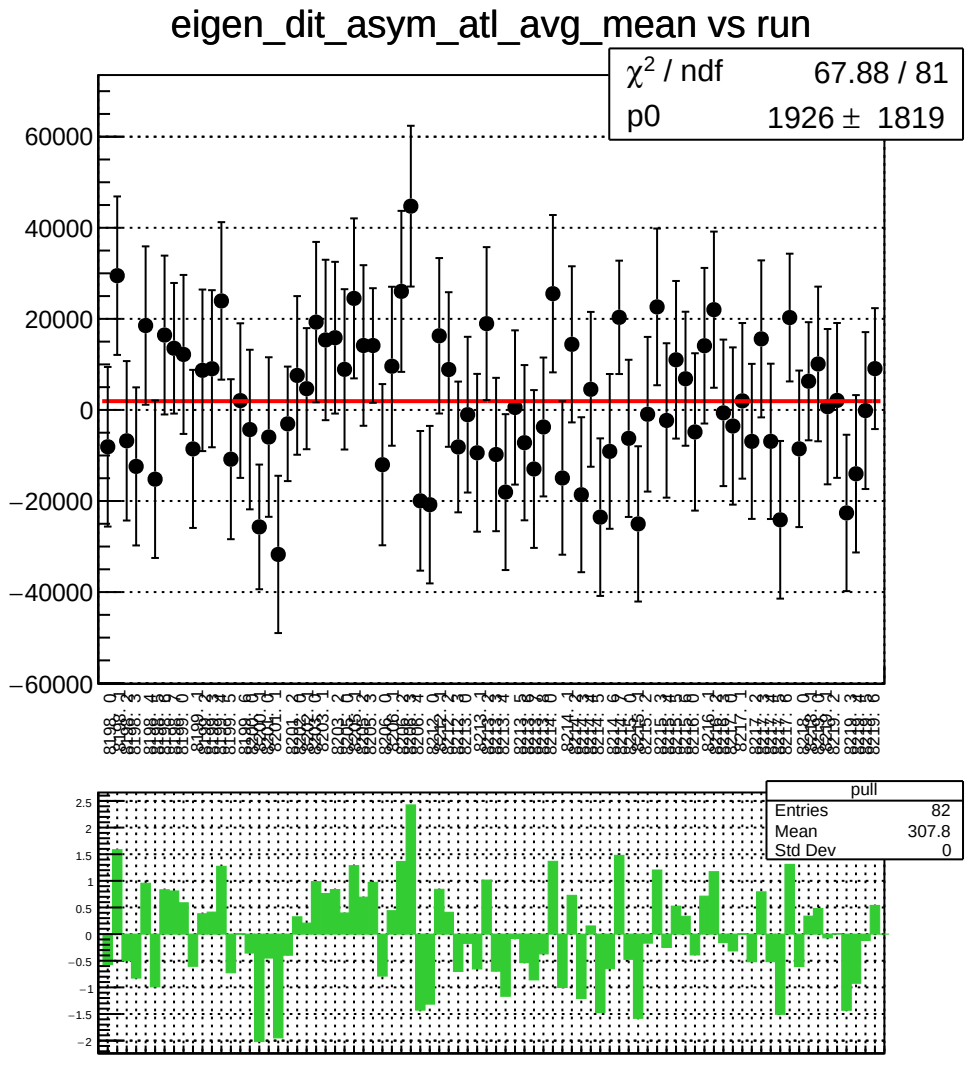

pull1D
Entries 82
Mean −0.006934
Std Dev 0.9098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

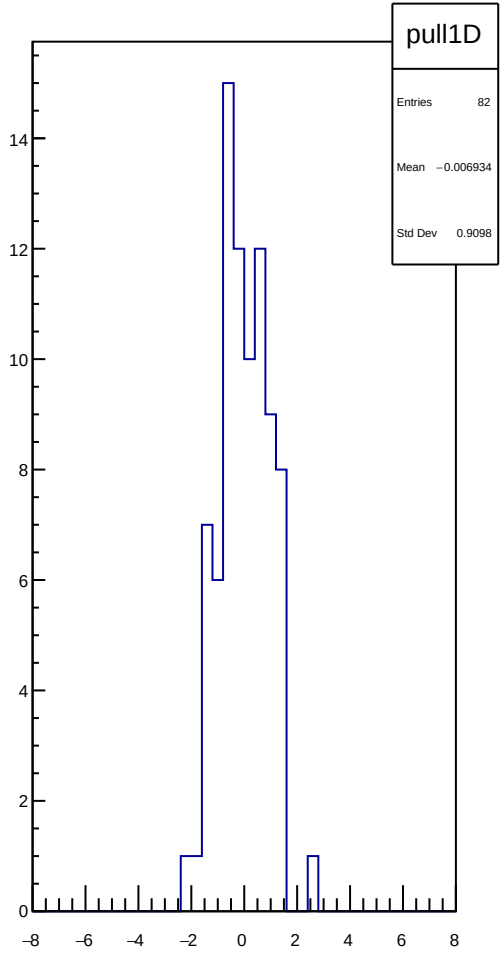

dit_asym_atl_avg_rms vs run
χ² / ndf 275.9 / 81
p0 1638 ± 1.286
1700
1680
1660
1640
1620
1600
1580

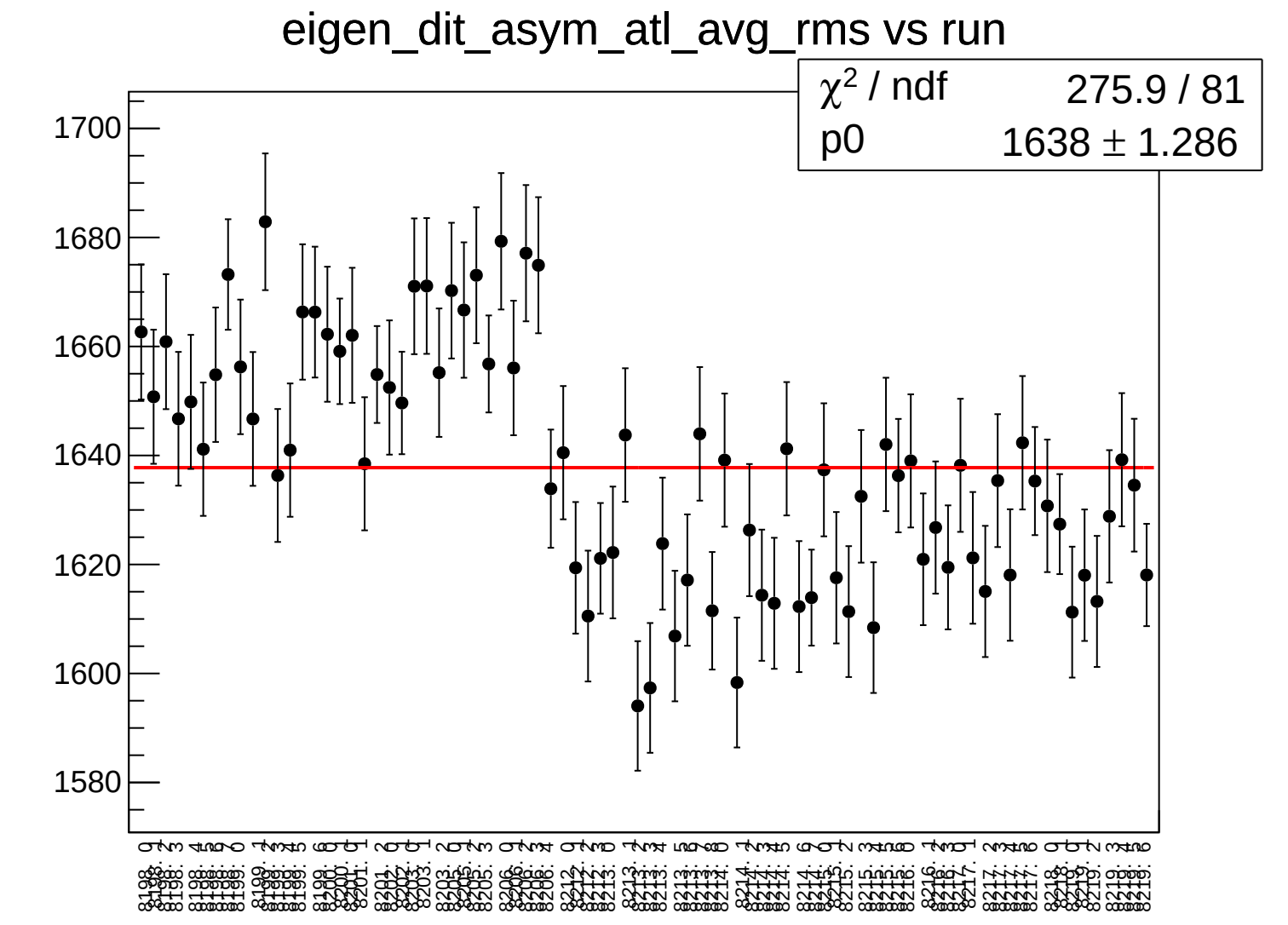

asym_atl_avg_dit_correction_mean vs run
χ² / ndf 97.1 / 81
p0 683.9 ± 5576
×10³
pull
Entries 82
Mean 49.56
Std Dev 0

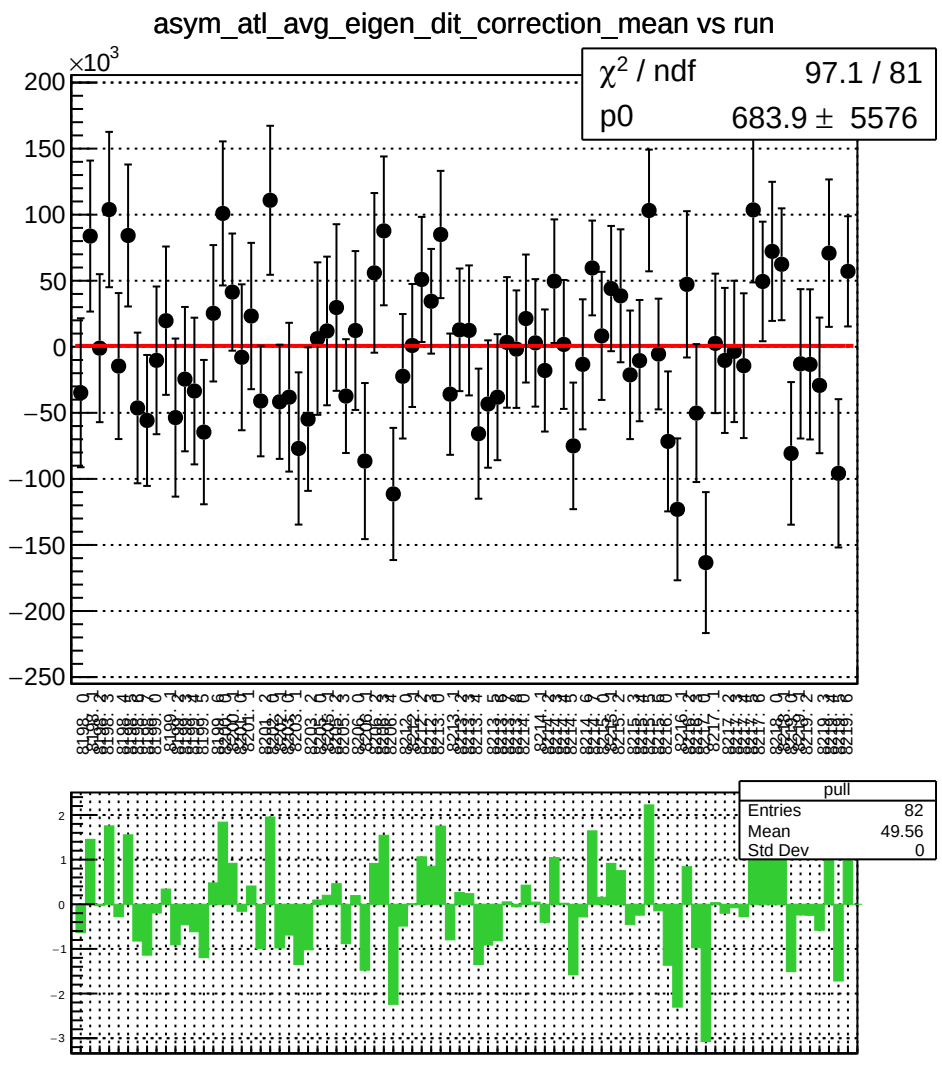

pull1D
Entries 82
Mean −0.01609
Std Dev 1.088

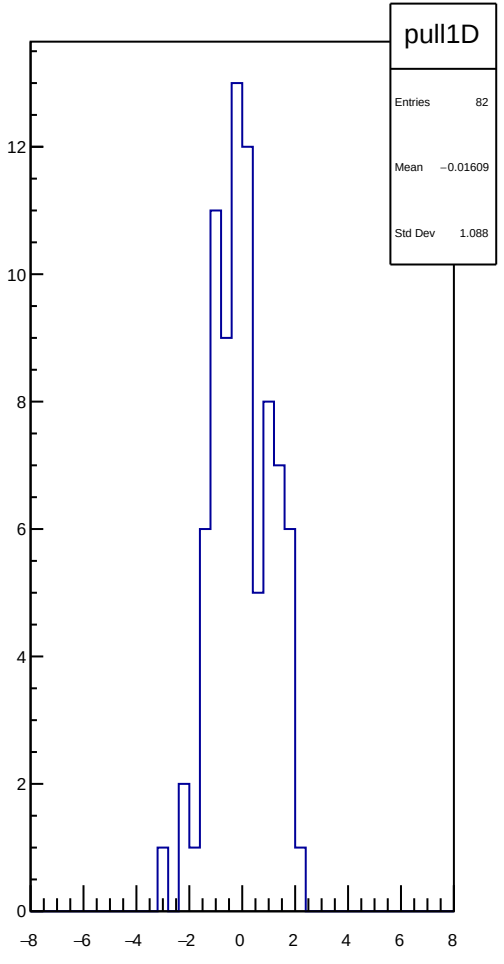

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1.114e+04 / 81
p0 5003 ± 3.943
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

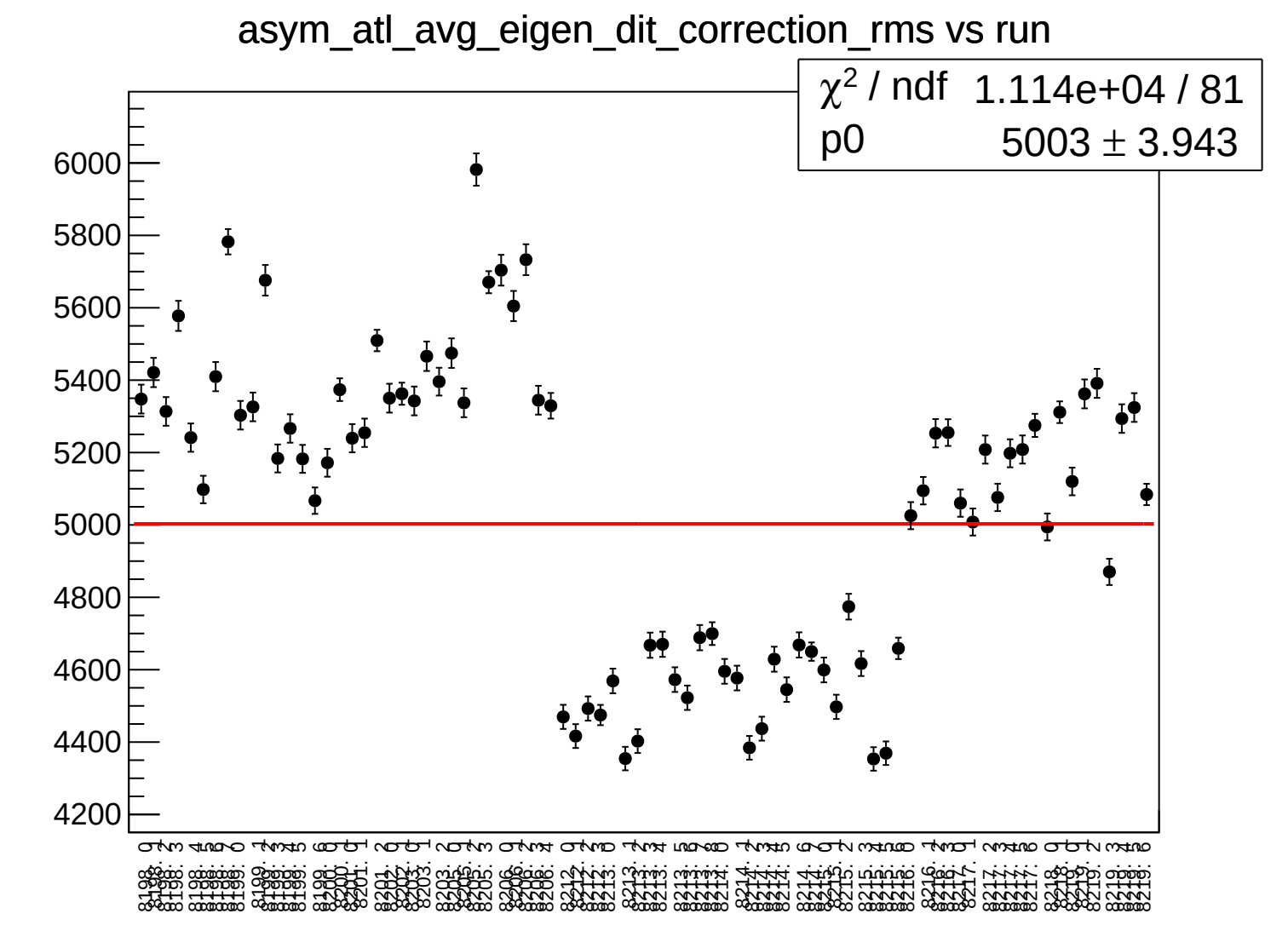

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 67.88 / 81
p0 1926 ± 1819
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 307.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

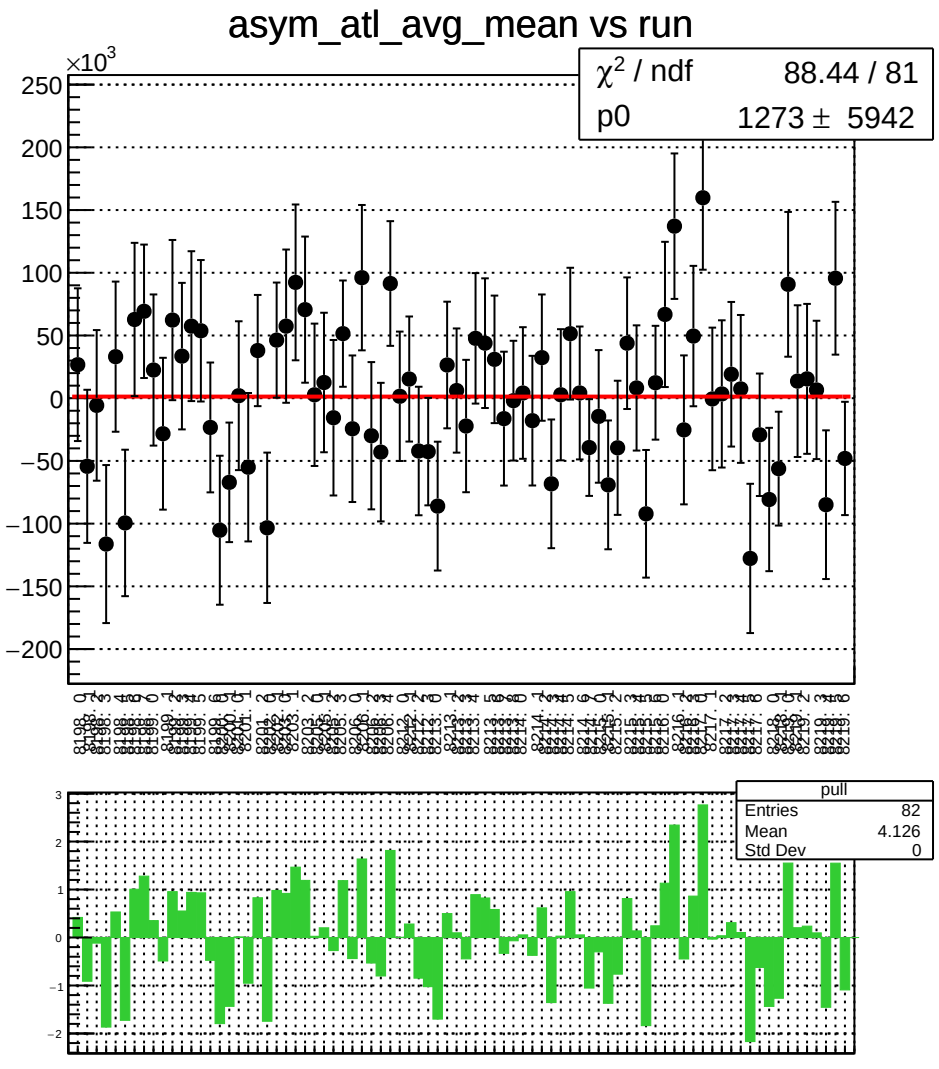

pull1D
Entries 82
Mean −0.006934
Std Dev 0.9098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

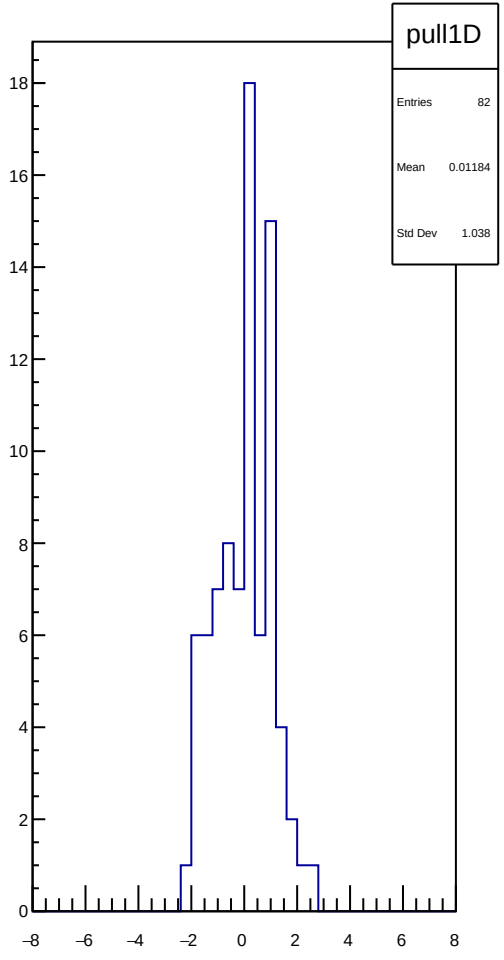

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 275.9 / 81
p0 1638 ± 1.286
1700
1680
1660
1640
1620
1600
1580

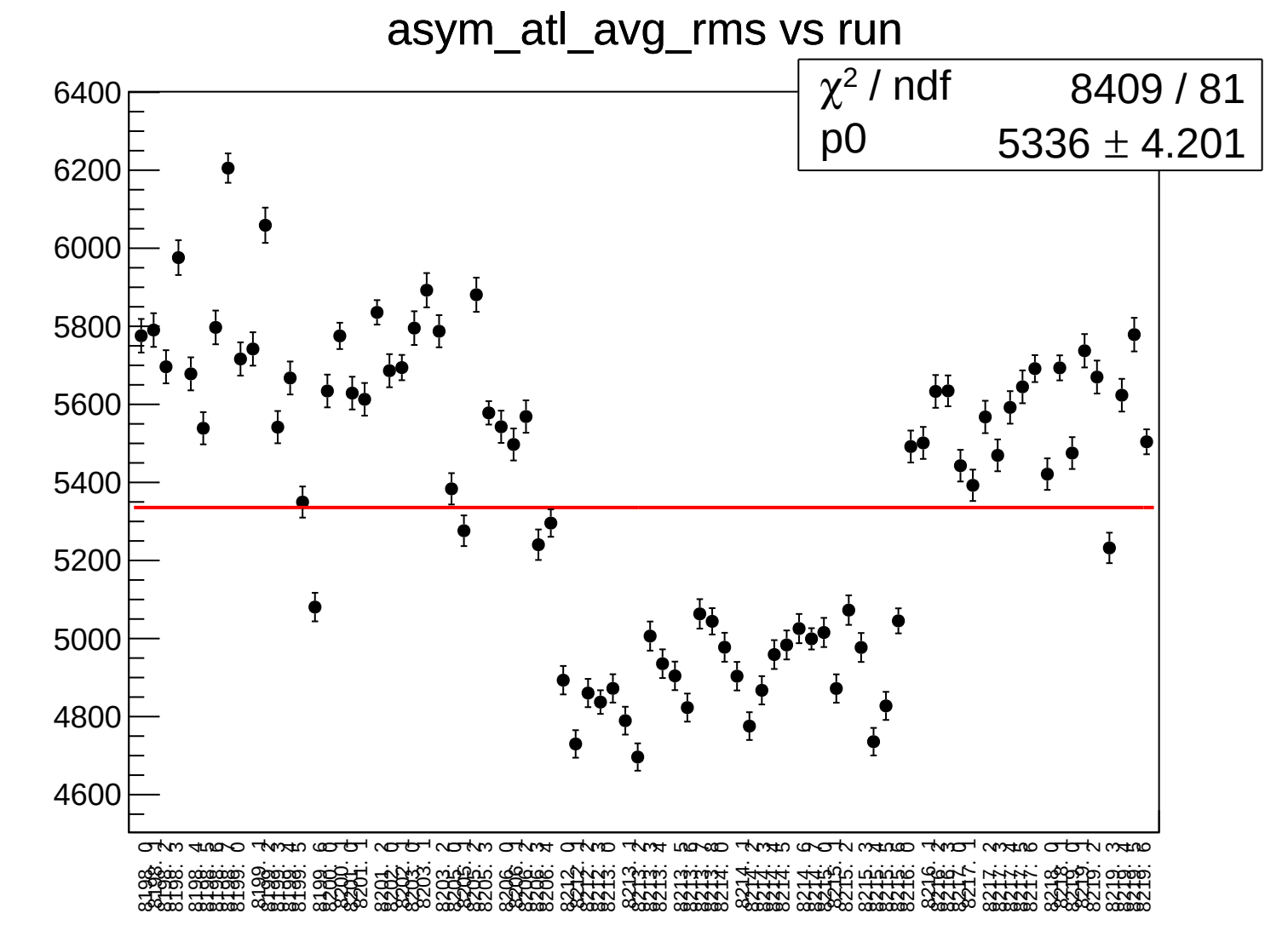

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.1 / 81
p0 683.9 ± 5576
pull
Entries 82
Mean 49.56
Std Dev 0

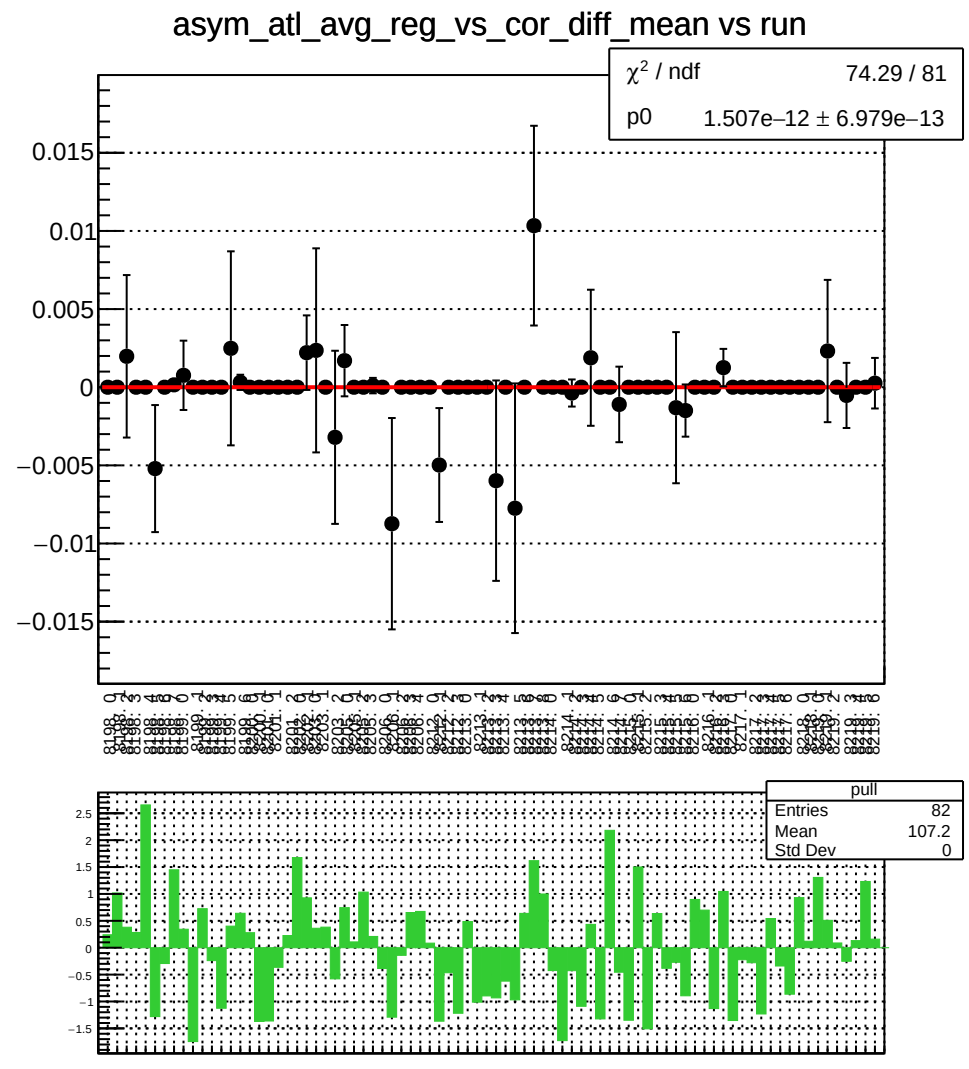

pull1D
Entries 82
Mean −0.01609
Std Dev 1.088

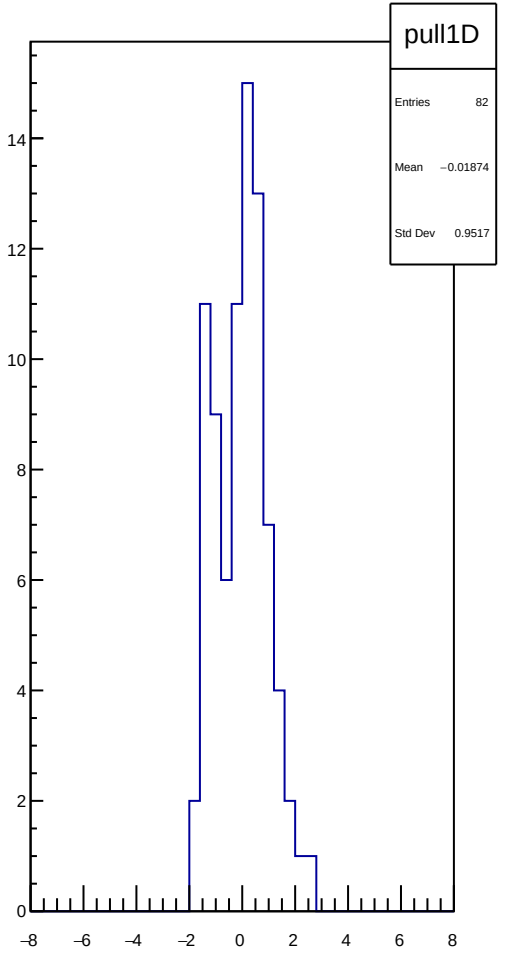

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.114e+04 / 81
p0 5003 ± 3.943
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

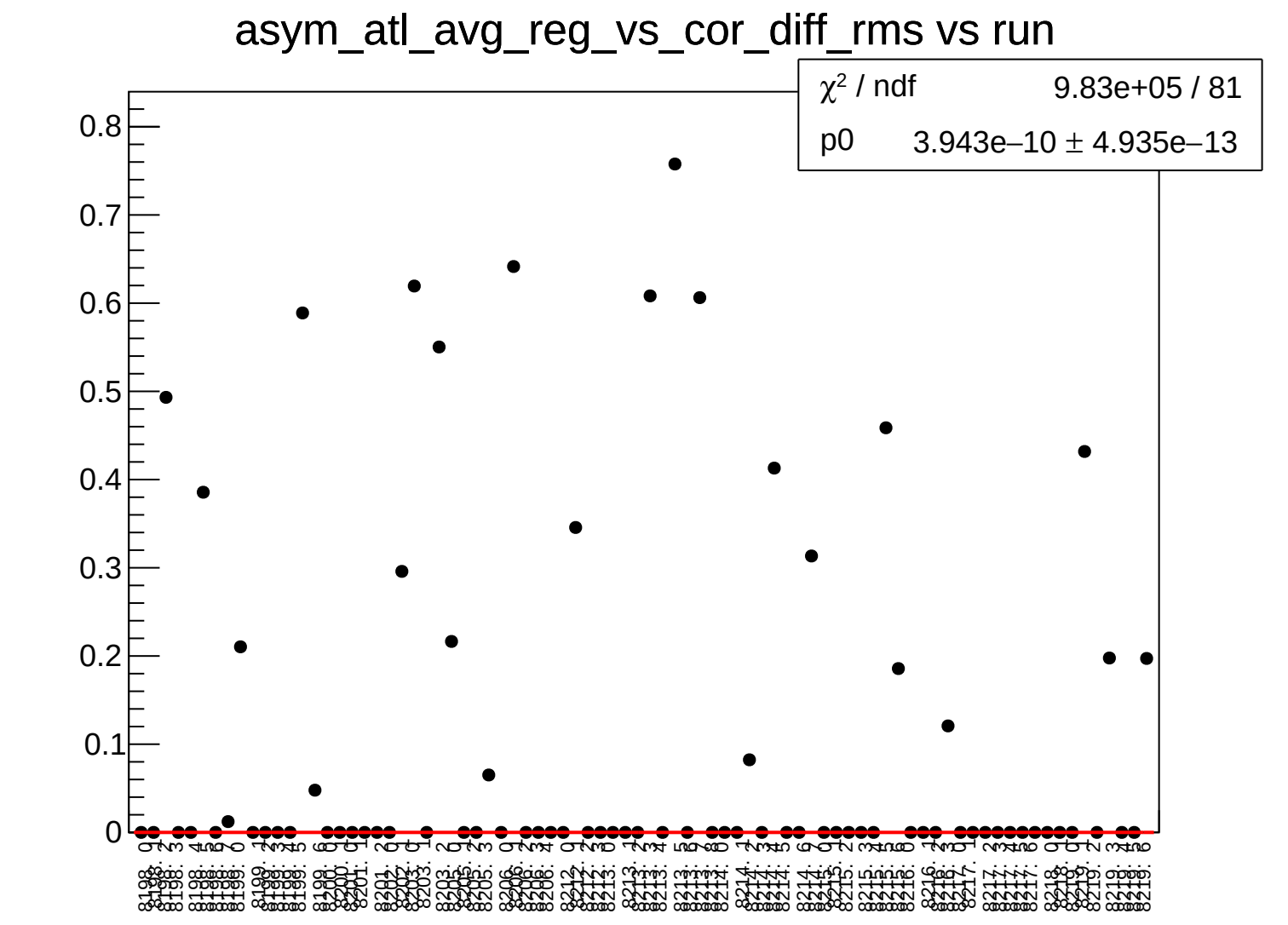

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 88.44 / 81
p0 1273 ± 5942
pull
Entries 82
Mean 4.126
Std Dev 0

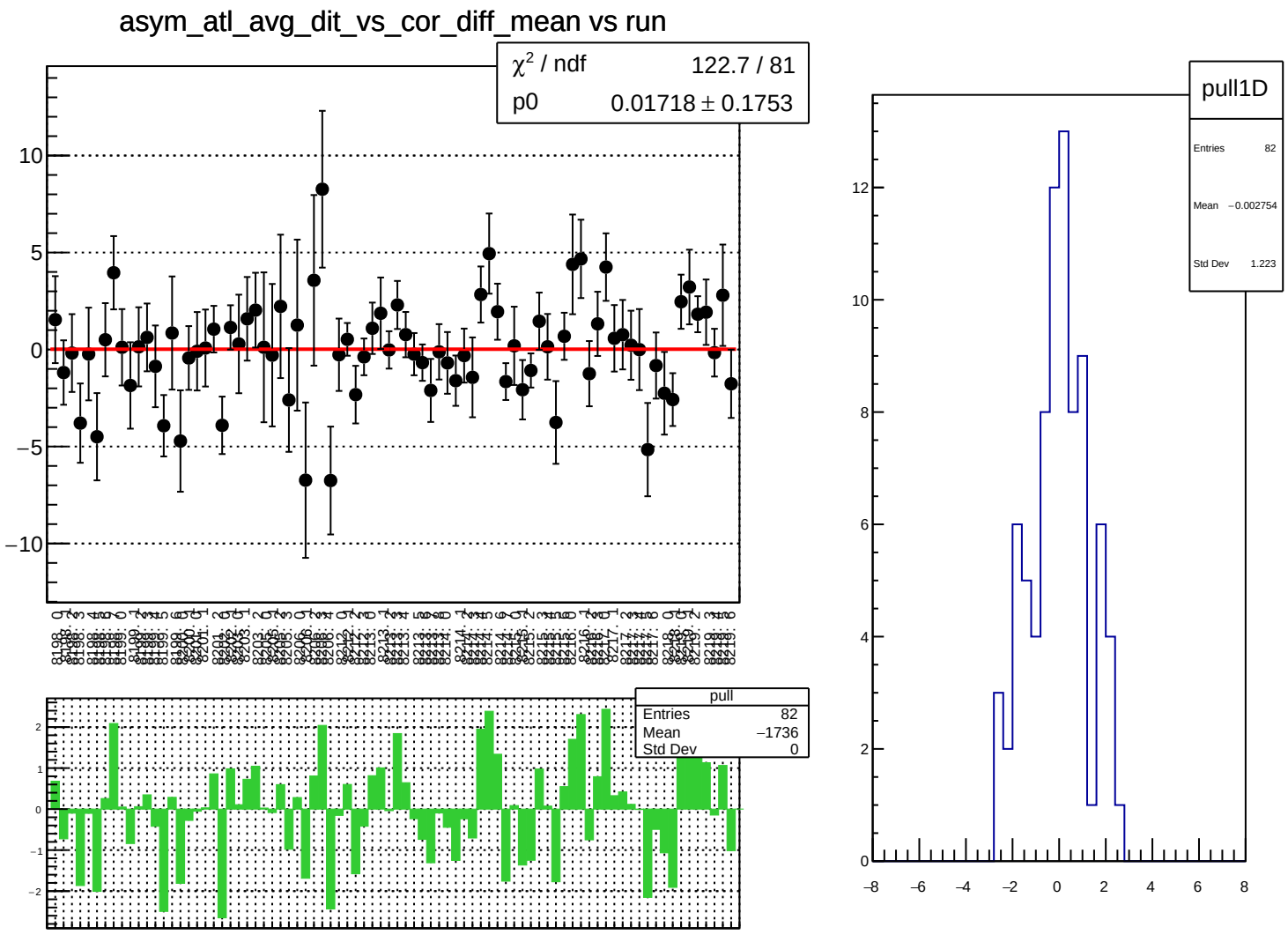

pull1D
Entries 82
Mean 0.01184
Std Dev 1.038

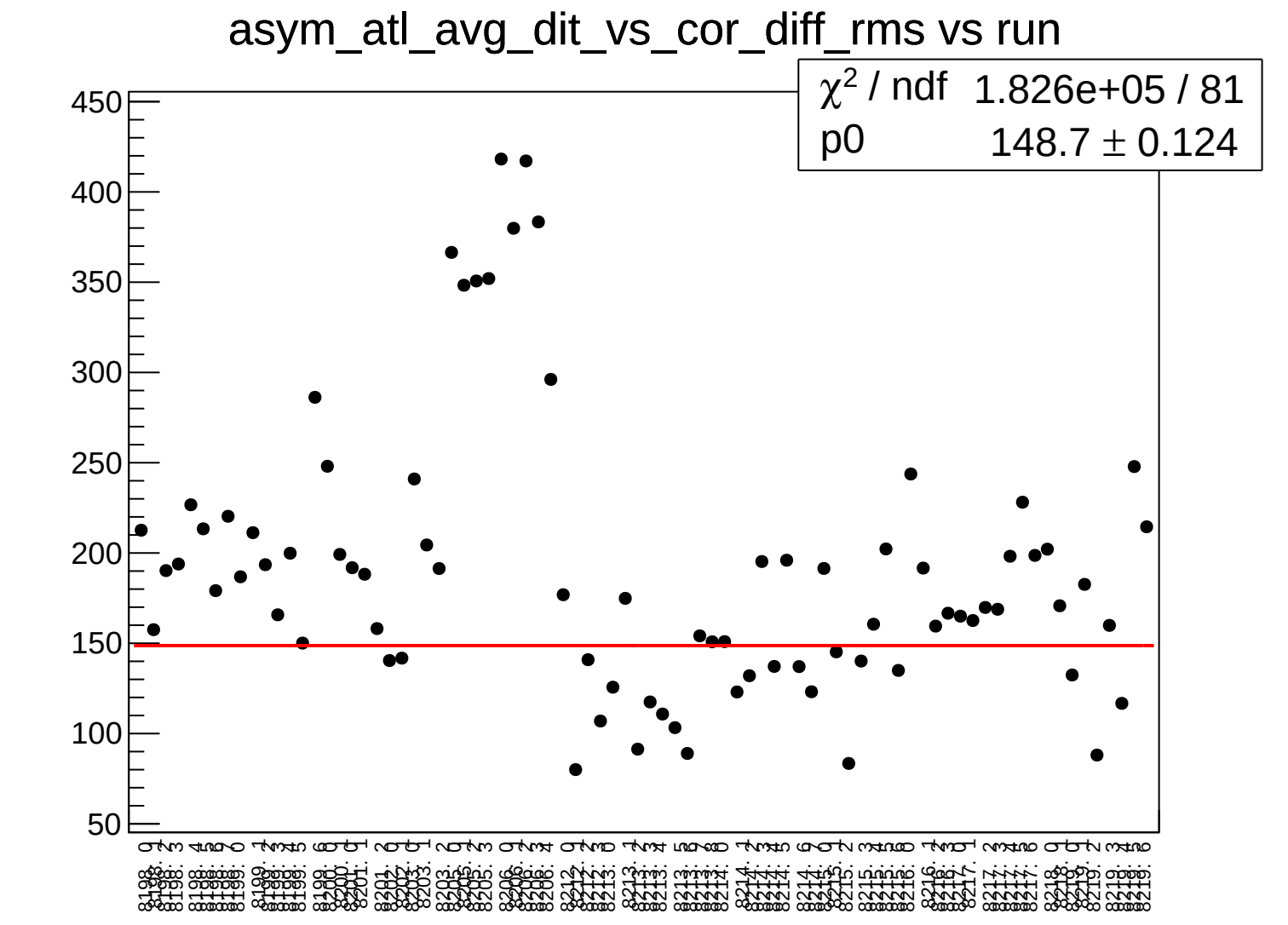

asym_atl_avg_rms vs run
χ² / ndf 8409 / 81
p0 5336 ± 4.201
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

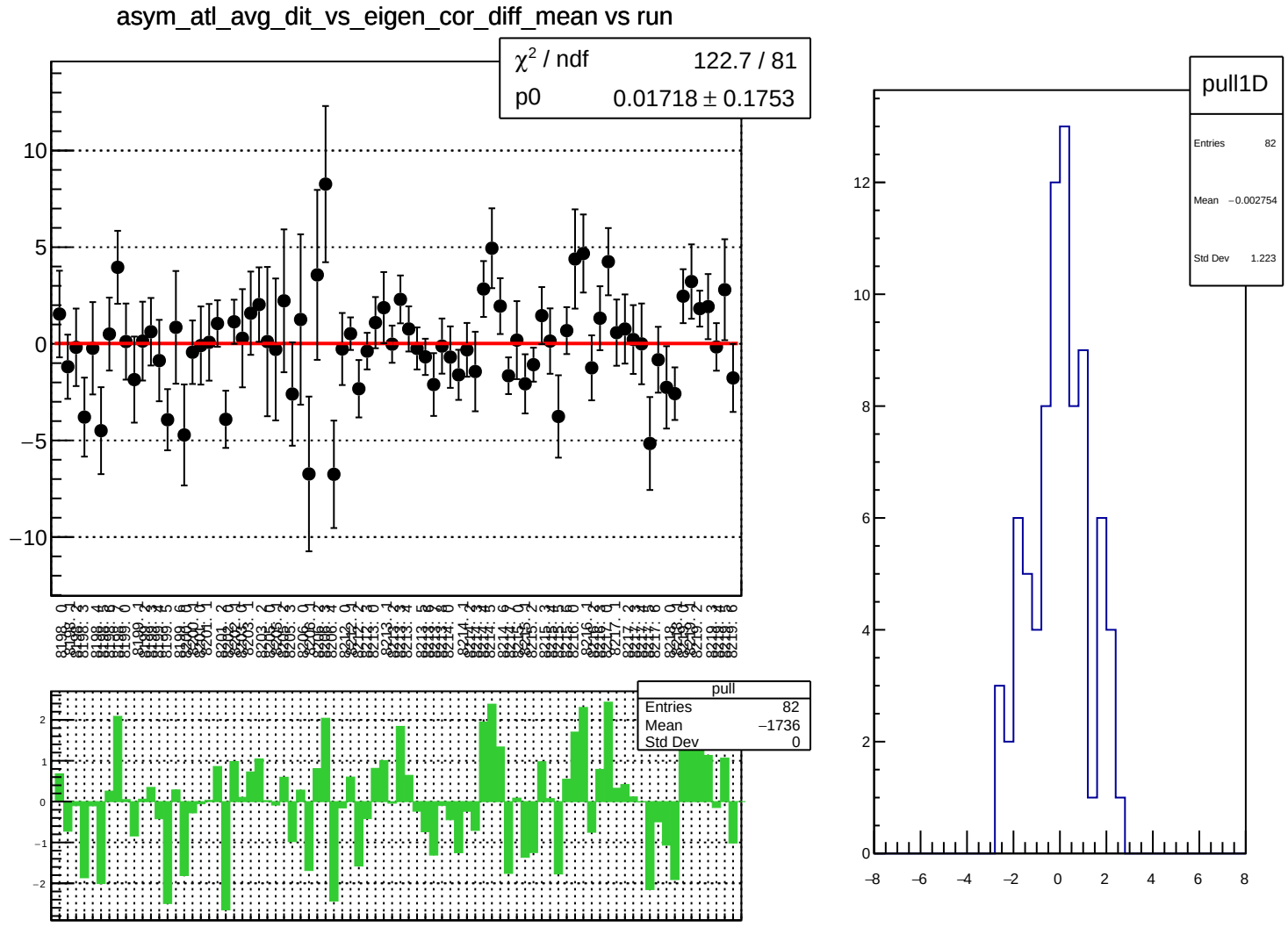

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.29 / 81
p0 1.507e−12 ± 6.979e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 82
Mean 107.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

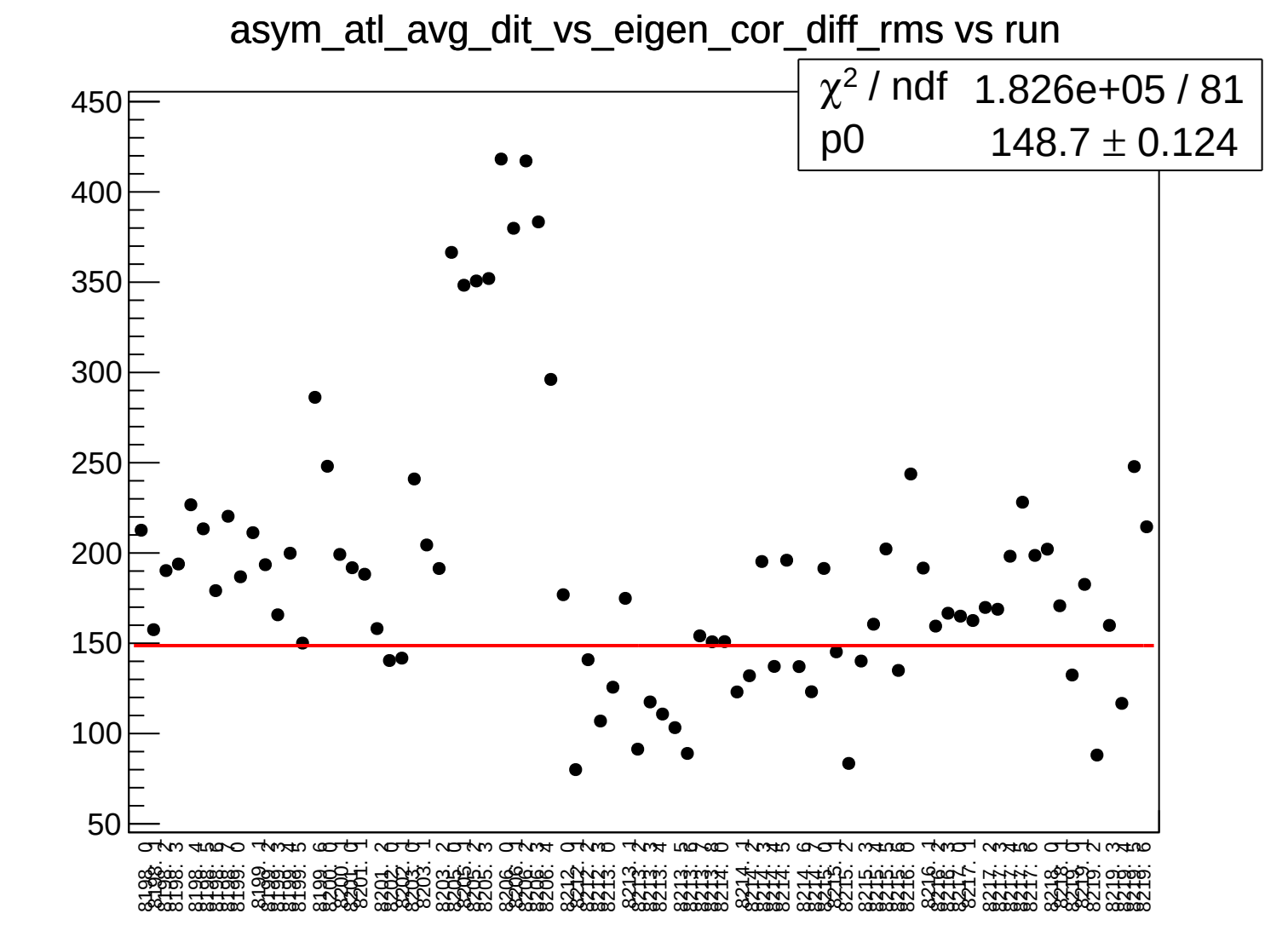

pull1D
Entries 82
Mean −0.01874
Std Dev 0.9517
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

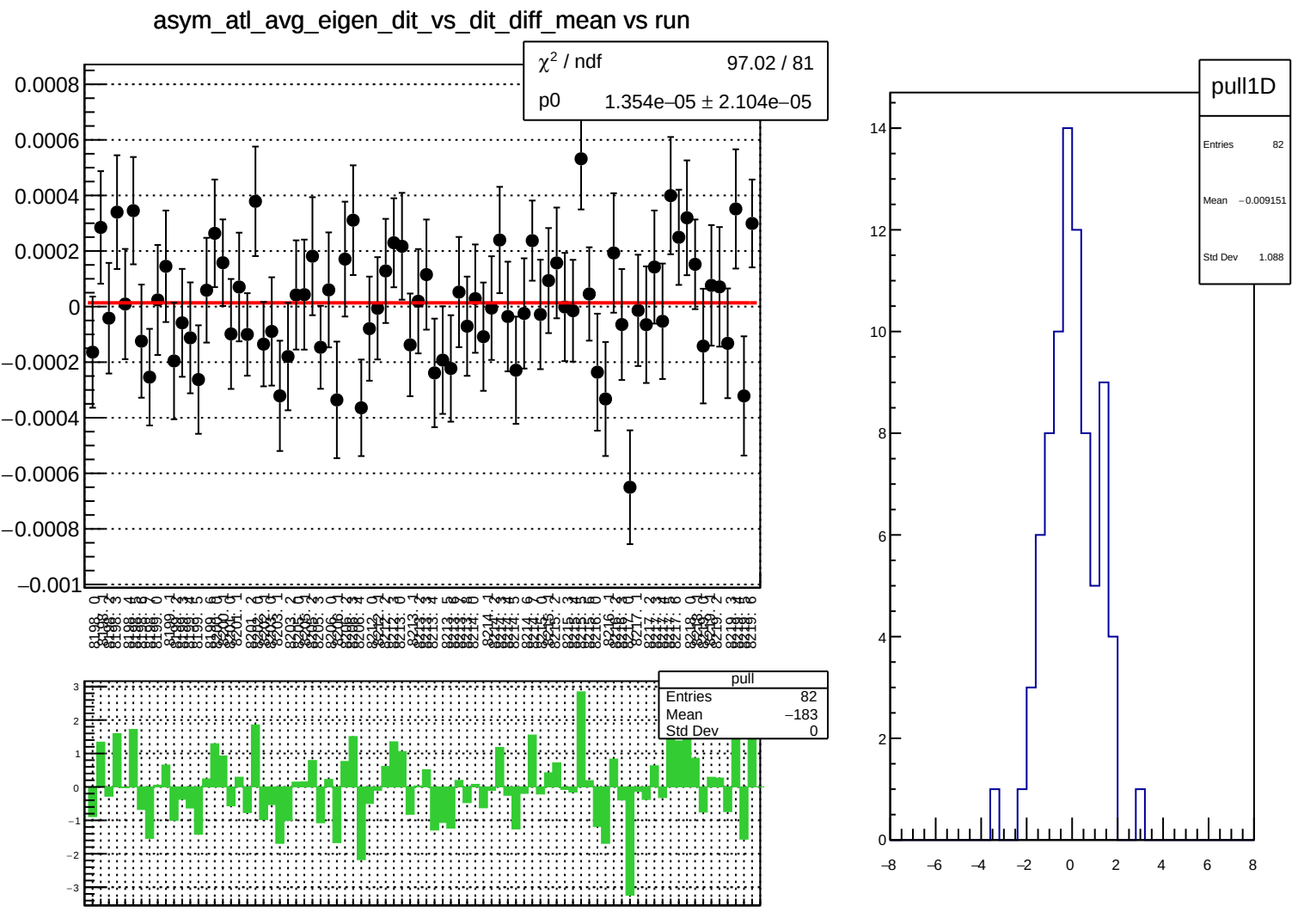

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.83e+05 / 81
p0 3.943e−10 ± 4.935e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

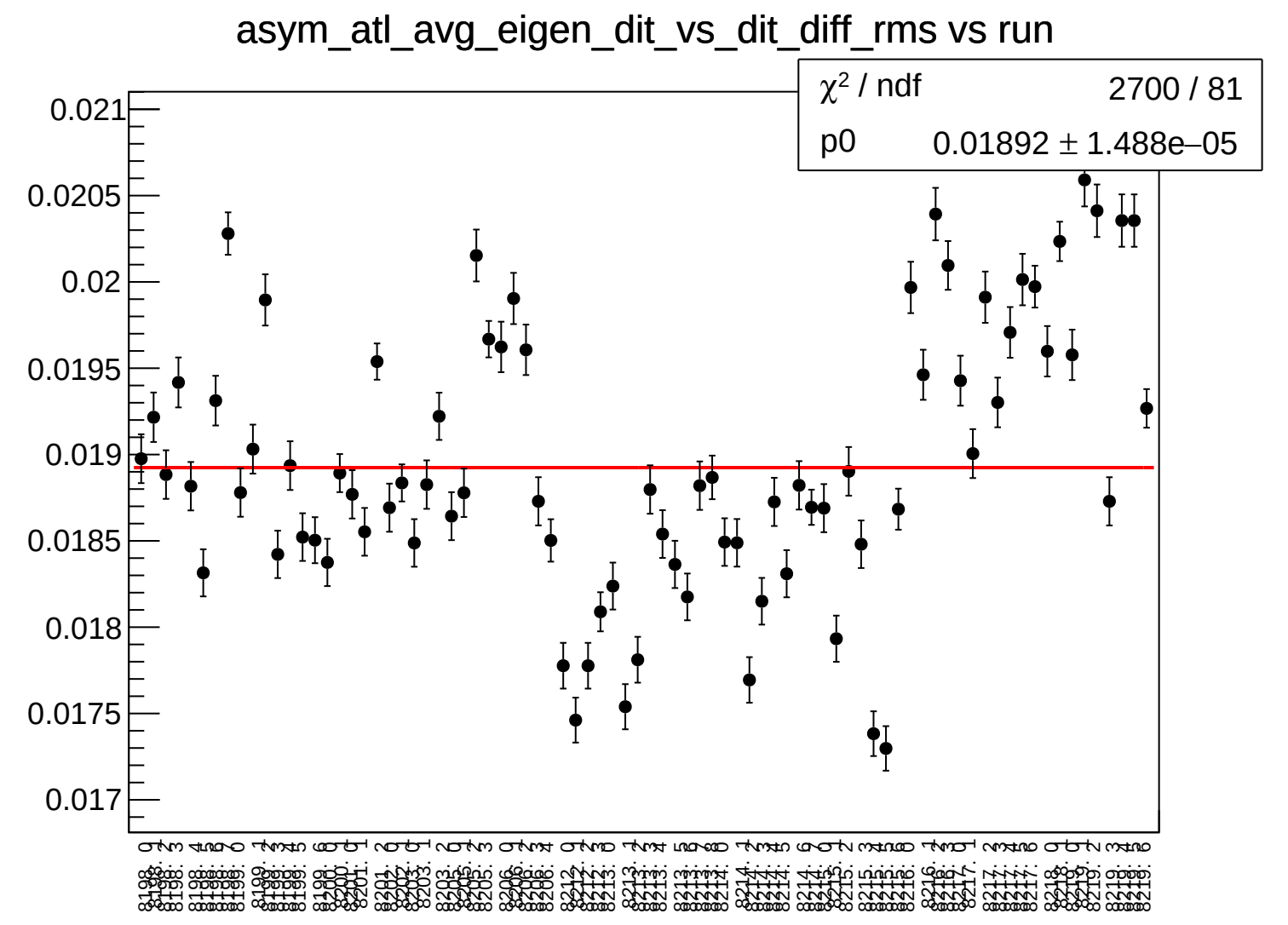

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 122.7 / 81
p0 0.01718 ± 0.1753
pull
Entries 82
Mean −1736
Std Dev 0
pull1D
Entries 82
Mean −0.002754
Std Dev 1.223

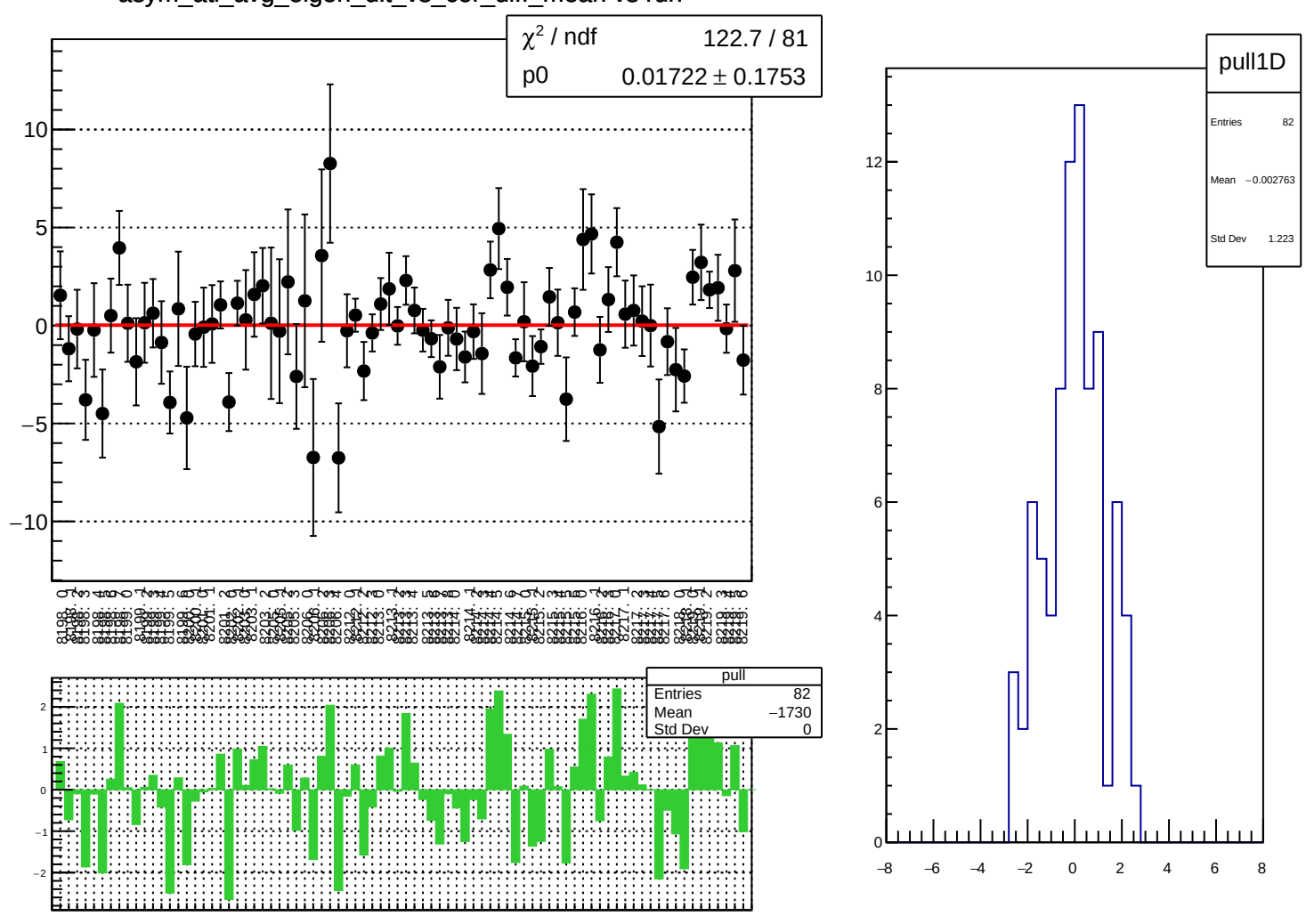

asym_atl_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.826e+05 / 81
p0 148.7 ± 0.124
450
400
350
300
250
200
150
100
50

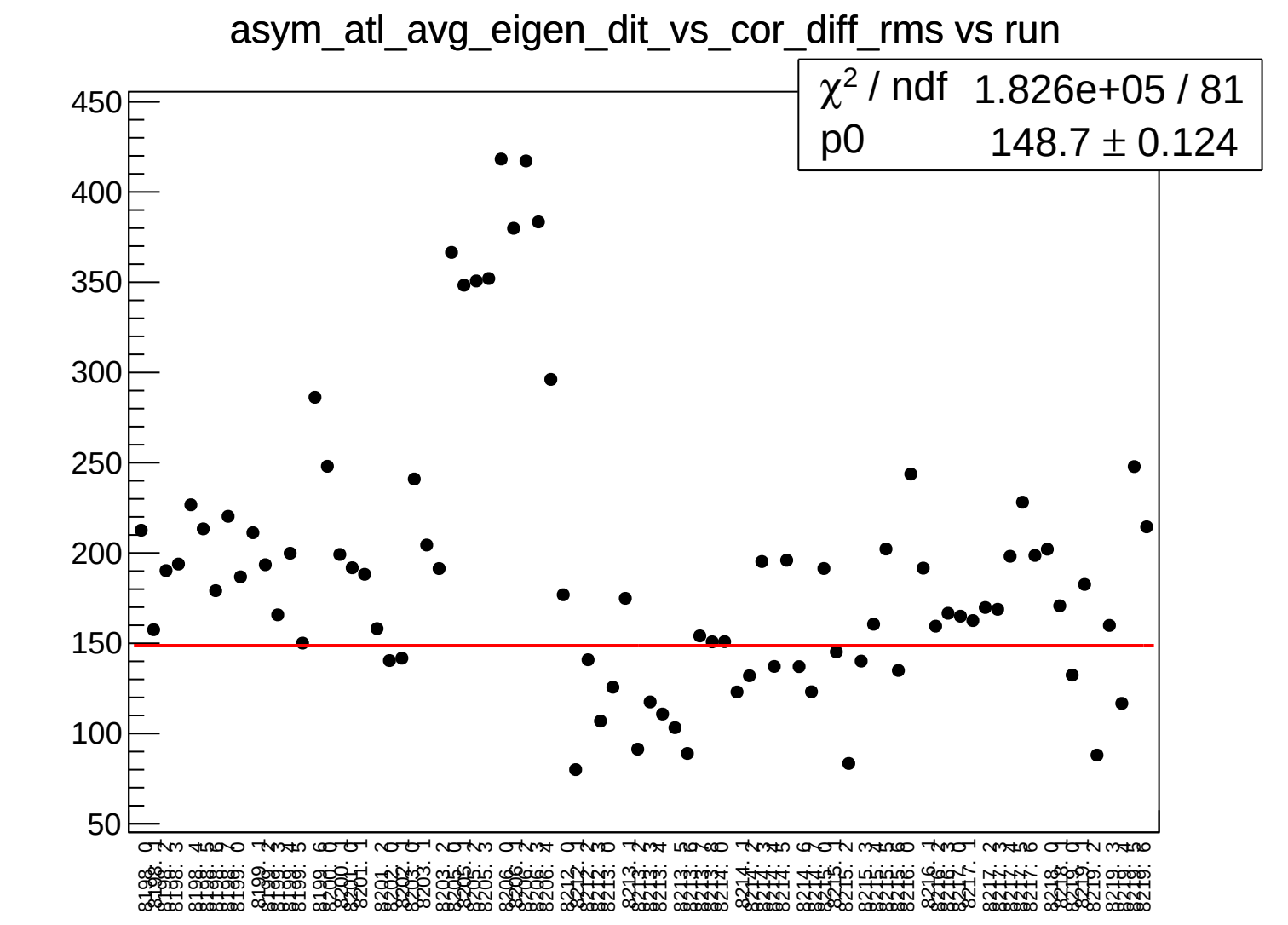

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.7 / 81
p0 0.01718 ± 0.1753
pull
Entries 82
Mean −1736
Std Dev 0
pull1D
Entries 82
Mean −0.002754
Std Dev 1.223

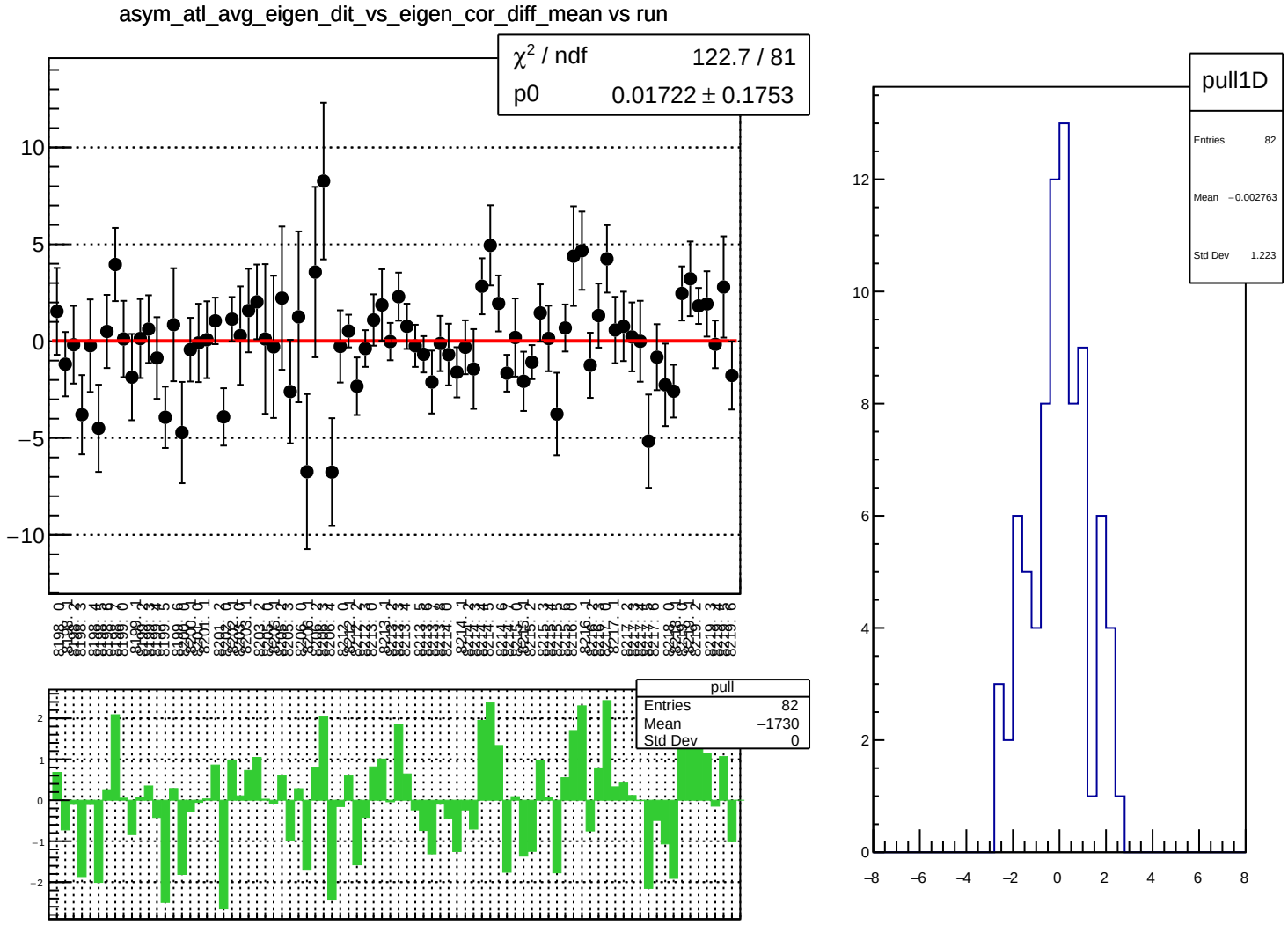

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.826e+05 / 81
p0 148.7 ± 0.124
450
400
350
300
250
200
150
100
50

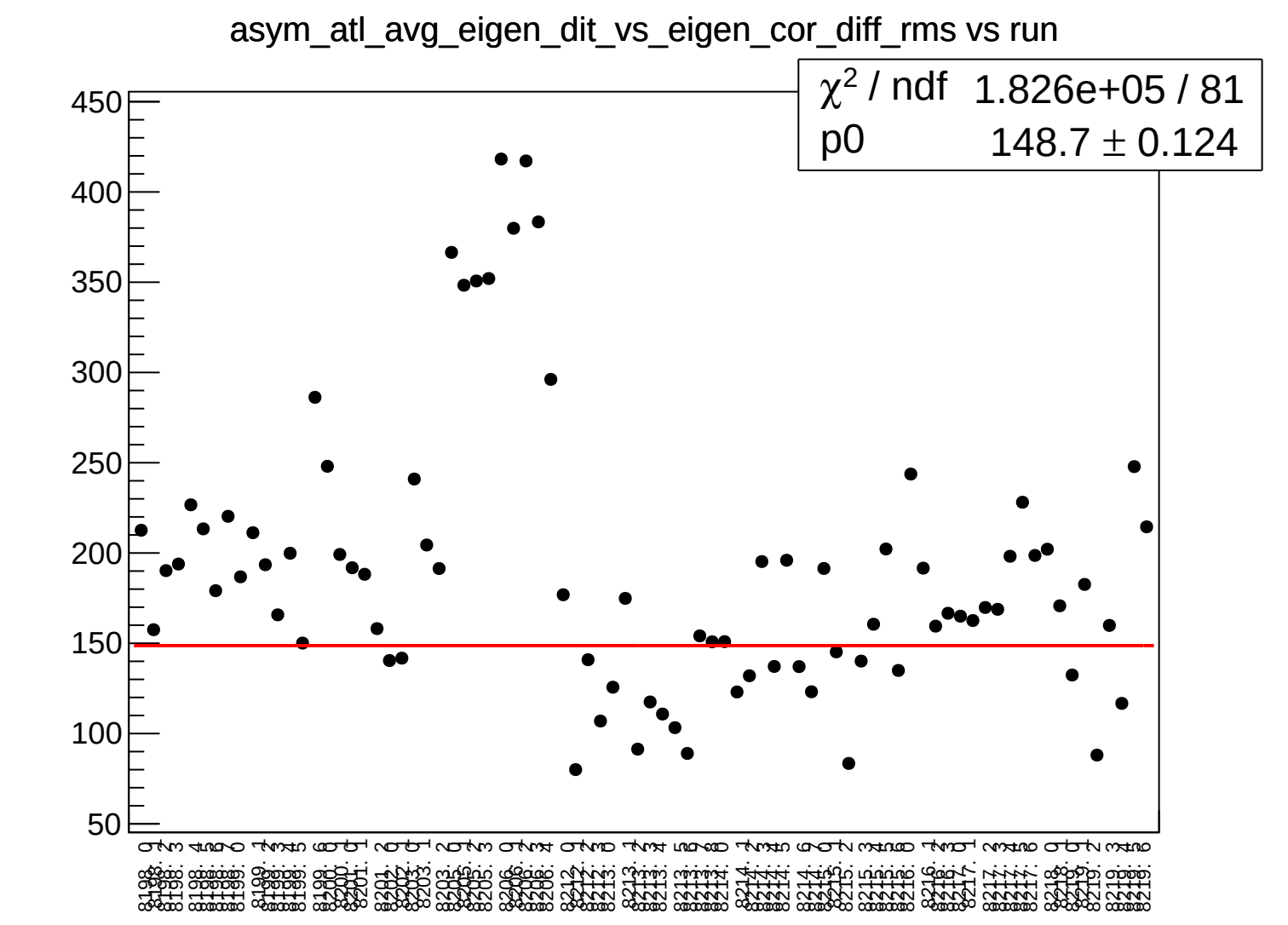

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 97.02 / 81
p0 1.354e−05 ± 2.104e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 82
Mean −183
Std Dev 0
pull1D
Entries 82
Mean −0.009151
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

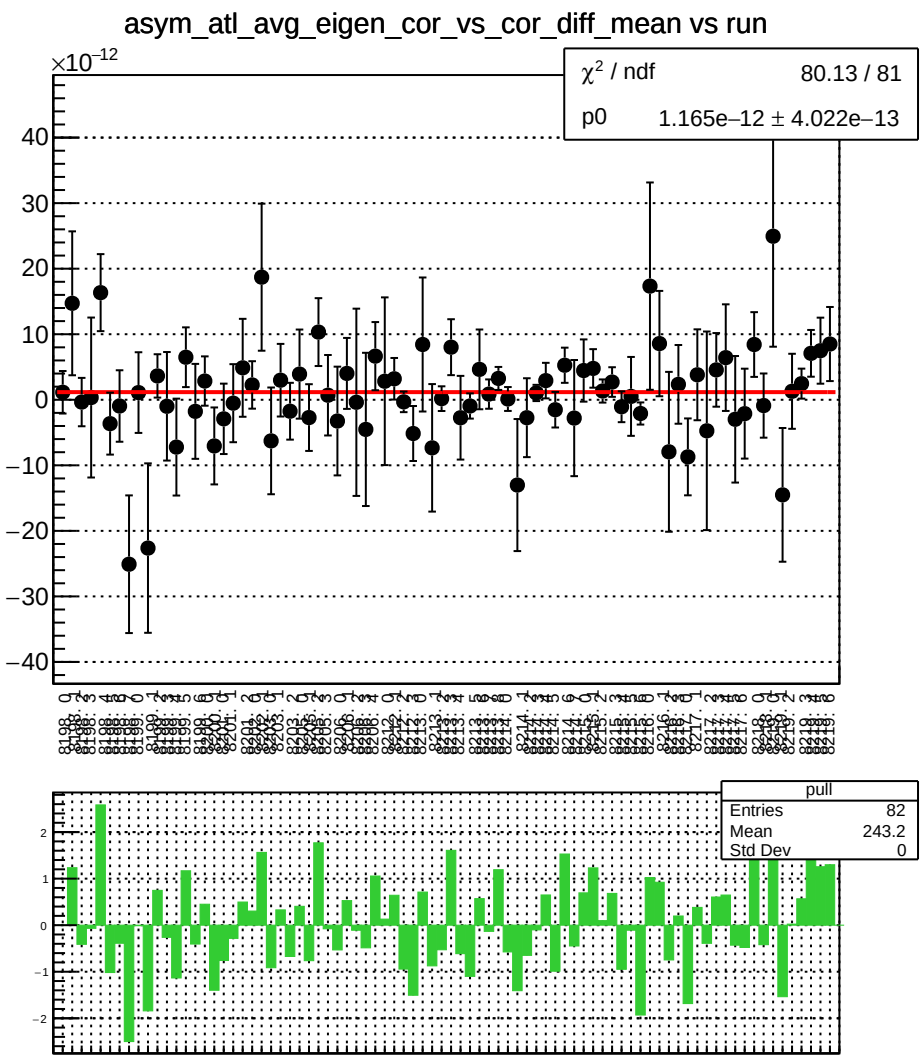

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2700 / 81
p0 0.01892 ± 1.488e−05
0.021
0.0205
0.02
0.0195
0.019
0.0185
0.018
0.0175
0.017

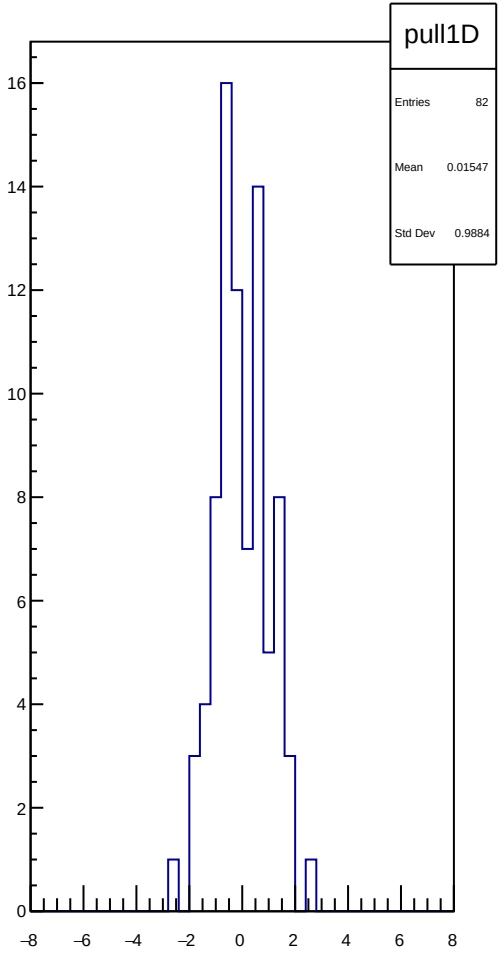

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 122.7 / 81
p0 0.01722 ± 0.1753
pull
Entries 82
Mean −1730
Std Dev 0
pull1D
Entries 82
Mean −0.002763
Std Dev 1.223

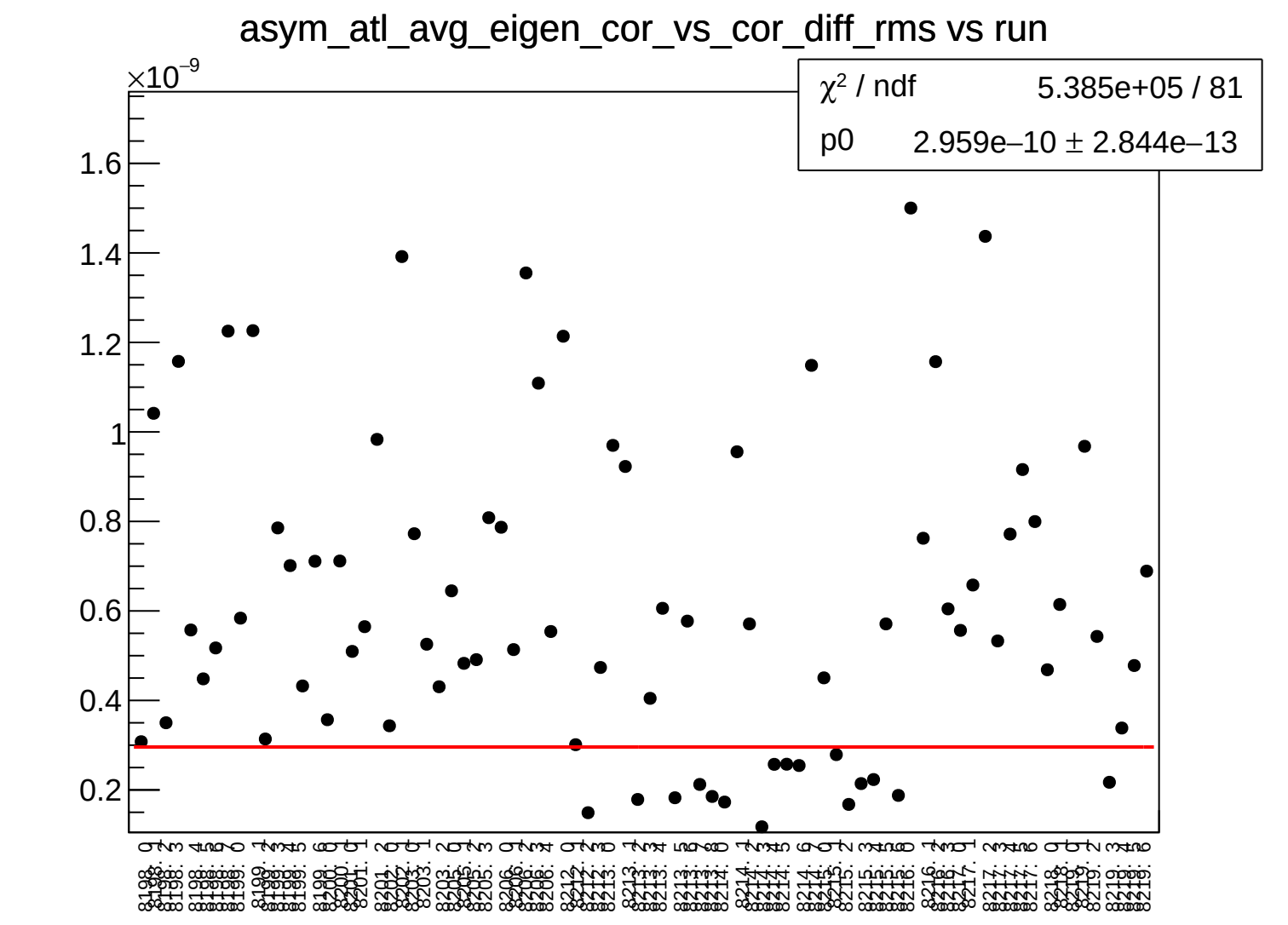

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.826e+05 / 81
p0 148.7 ± 0.124
450
400
350
300
250
200
150
100
50

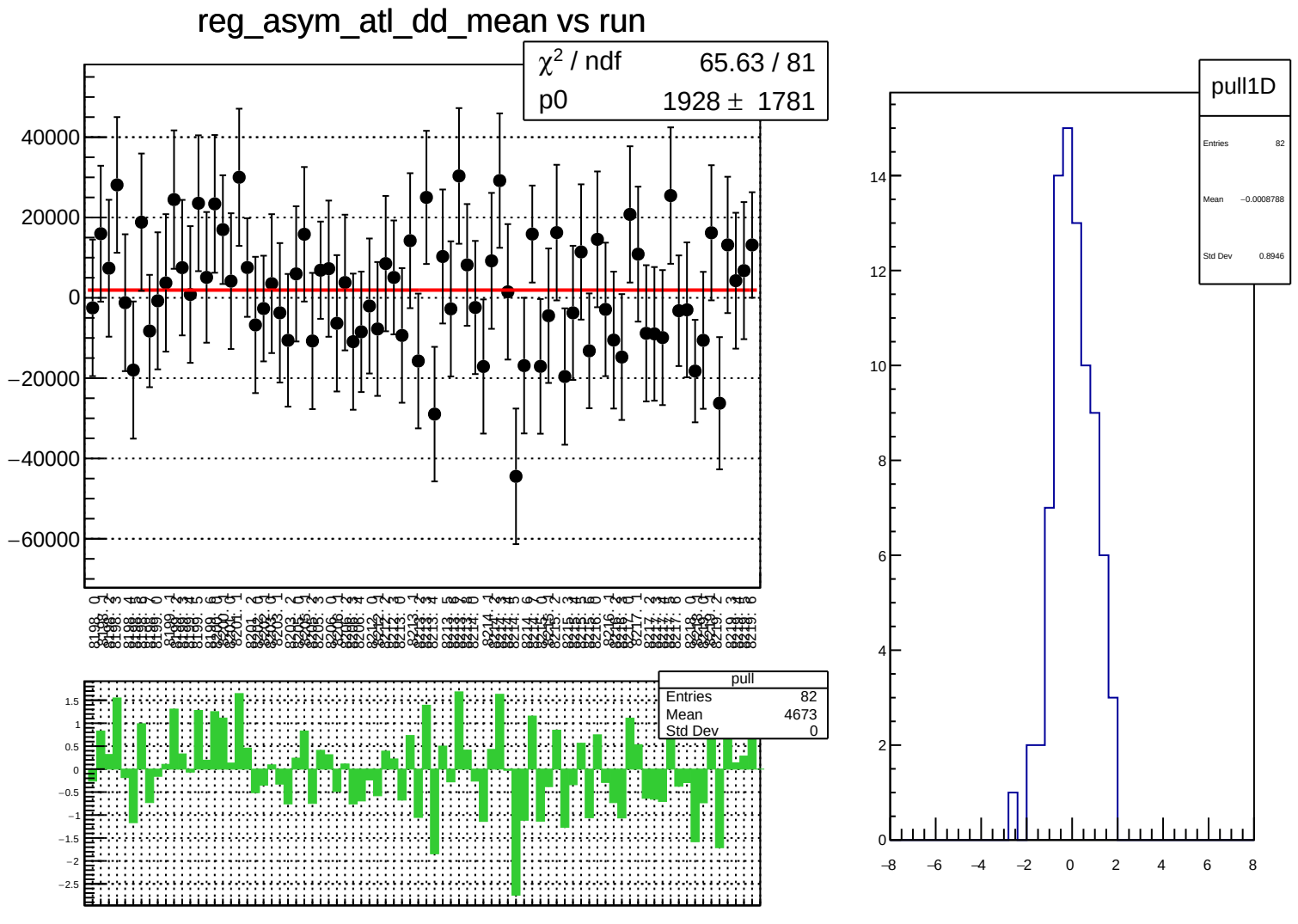

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.7 / 81
p0 0.01722 ± 0.1753
pull
Entries 82
Mean −1730
Std Dev 0
pull1D
Entries 82
Mean −0.002763
Std Dev 1.223

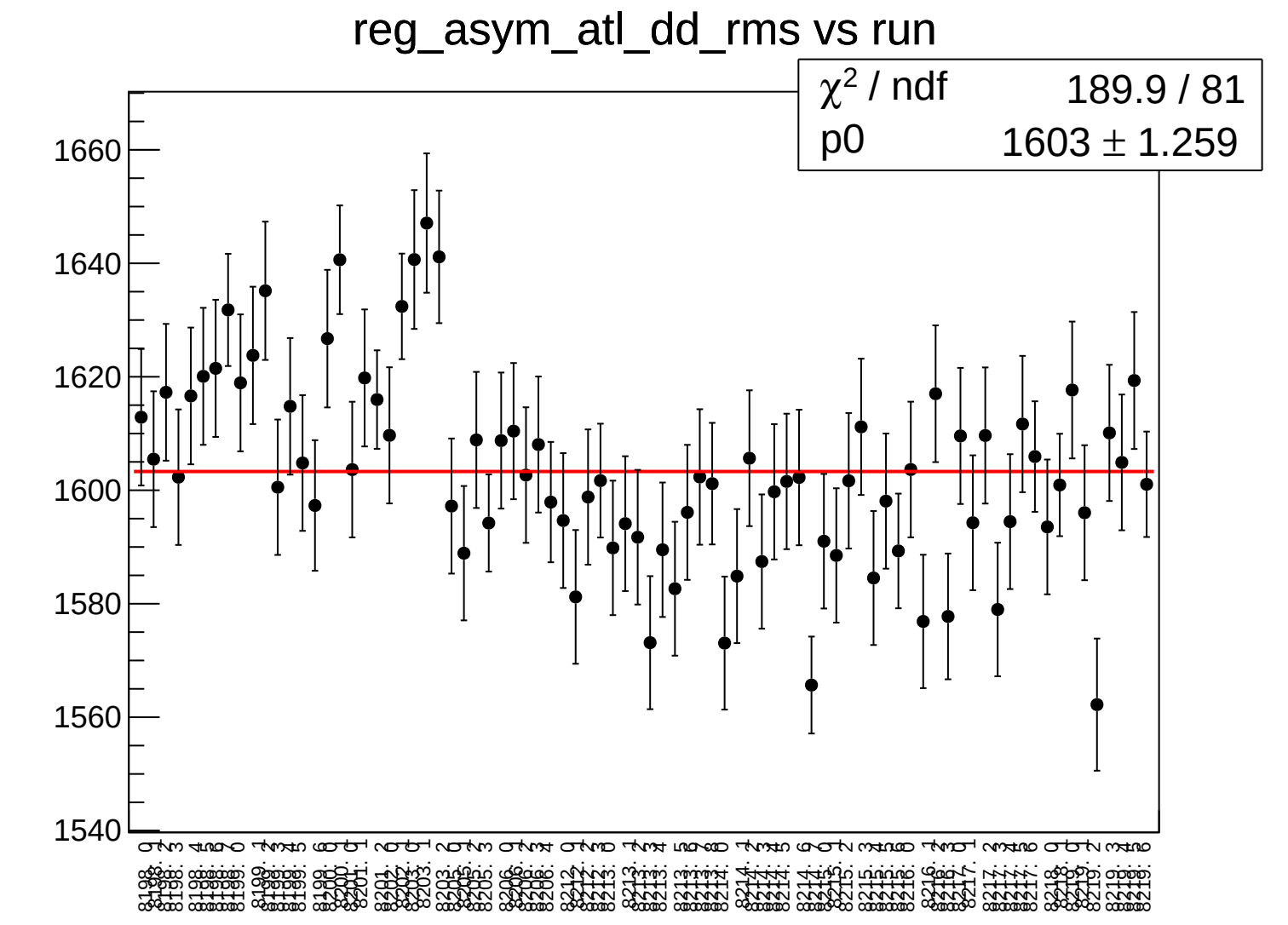

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.826e+05 / 81
p0 148.7 ± 0.124
450
400
350
300
250
200
150
100
50

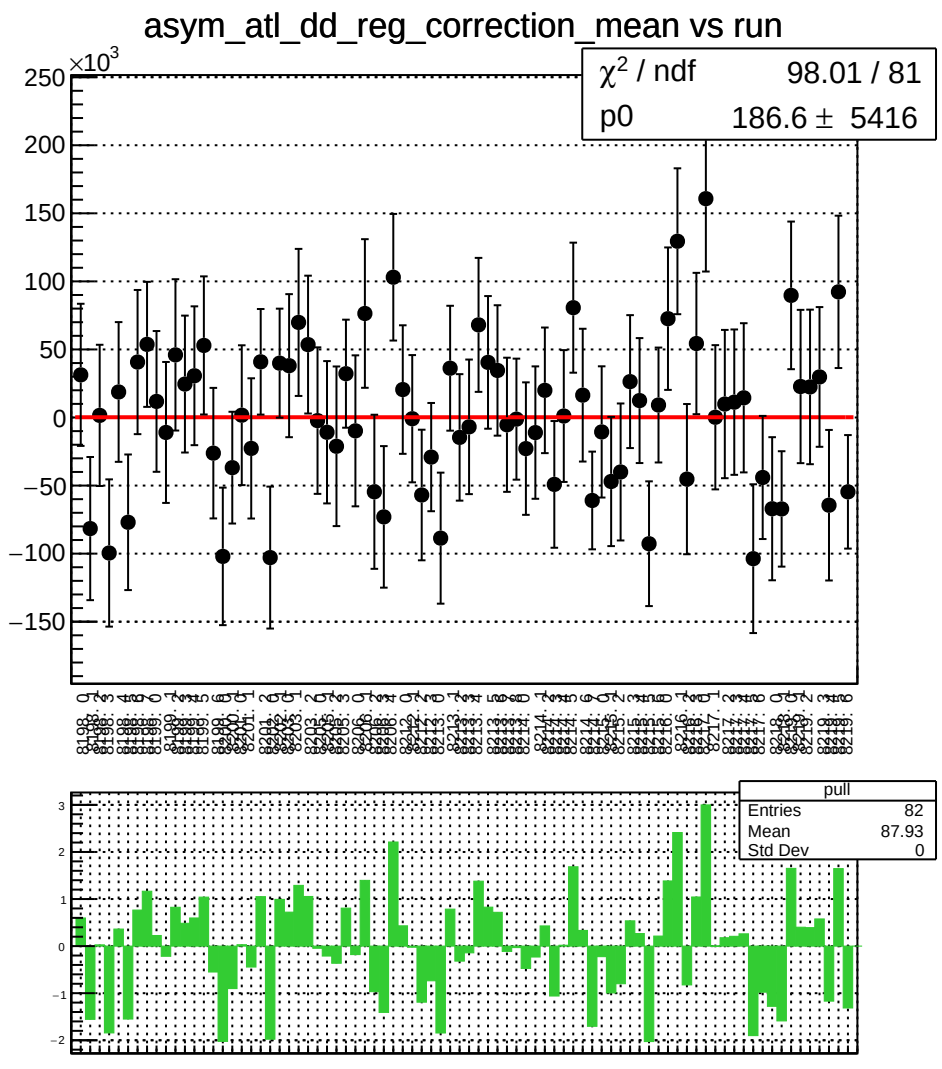

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.13 / 81
p0 1.165e−12 ± 4.022e−13
pull
Entries 82
Mean 243.2
Std Dev 0

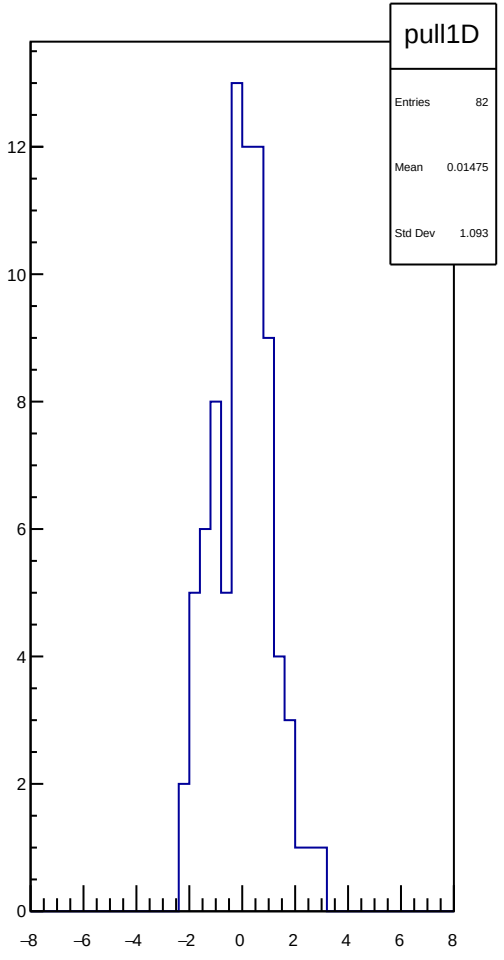

pull1D
Entries 82
Mean 0.01547
Std Dev 0.9884

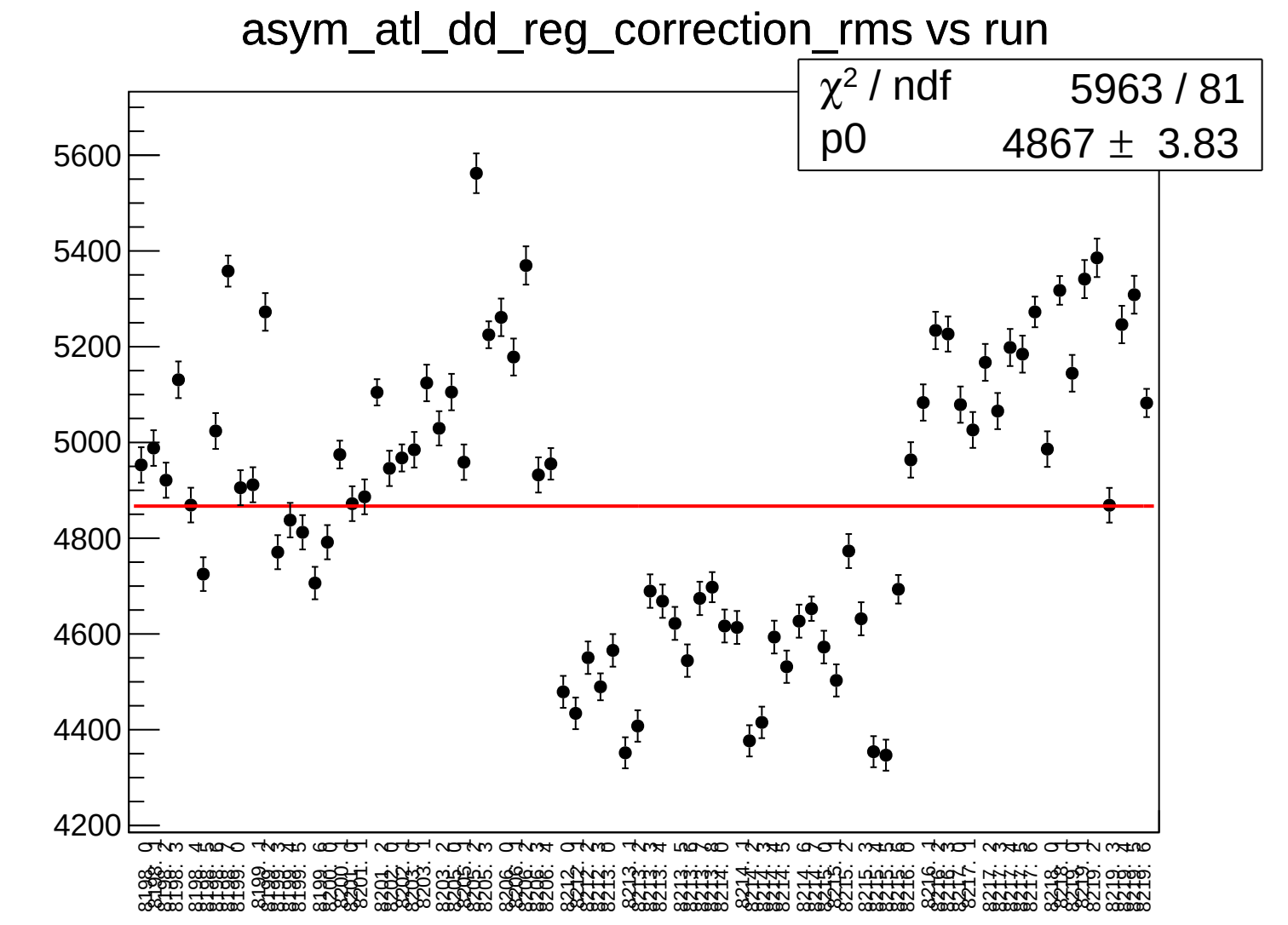

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.385e+05 / 81
p0 2.959e−10 ± 2.844e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

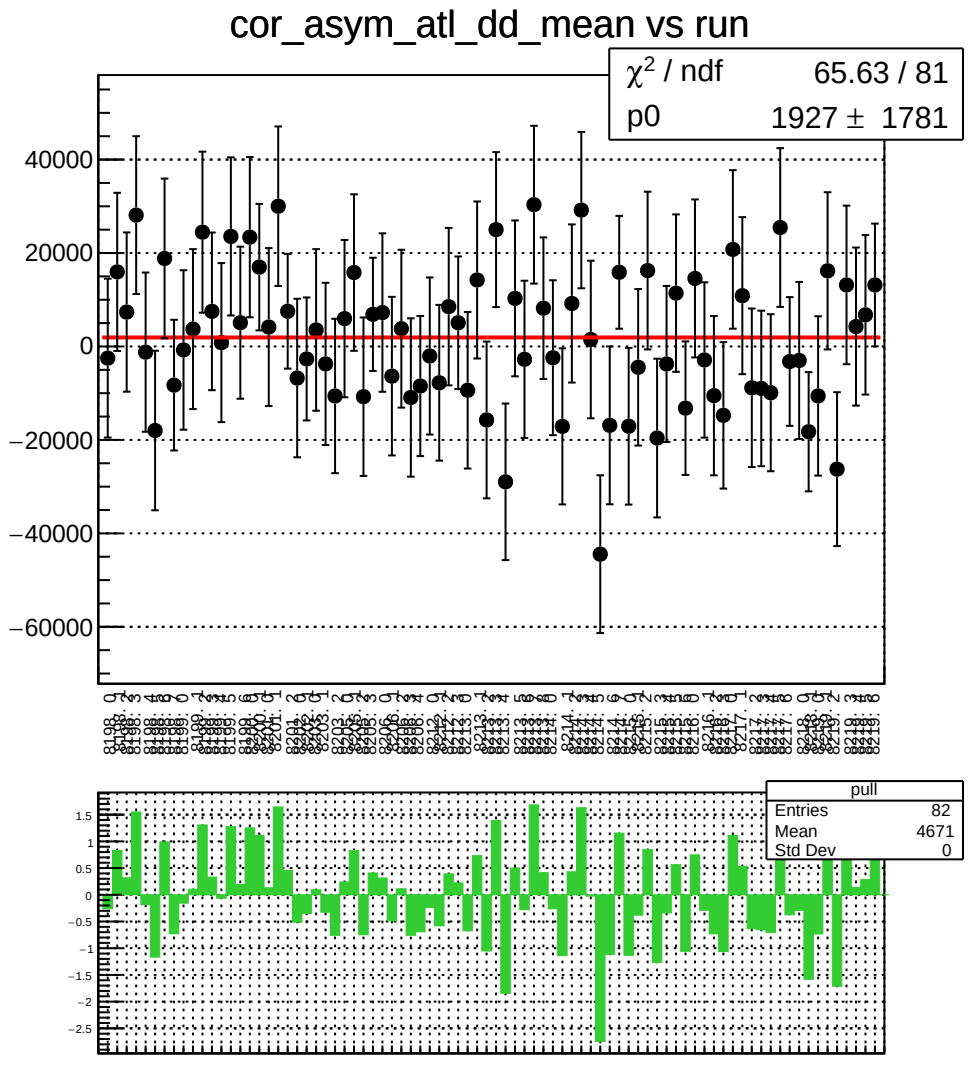

reg_asym_atl_dd_mean vs run
χ² / ndf 65.63 / 81
p0 1928 ± 1781
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 4673
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean −0.0008788
Std Dev 0.8946
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

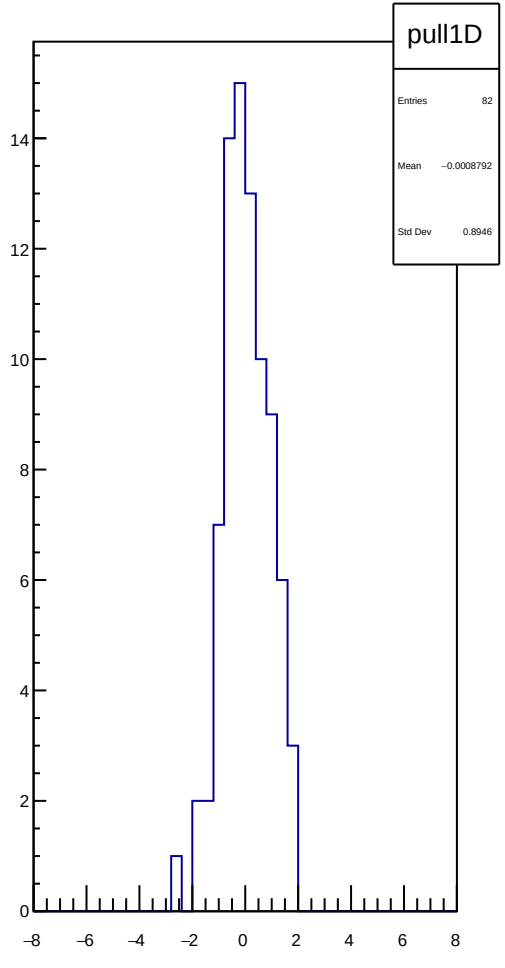

reg_asym_atl_dd_rms vs run
χ² / ndf 189.9 / 81
p0 1603 ± 1.259
1660
1640
1620
1600
1580
1560
1540

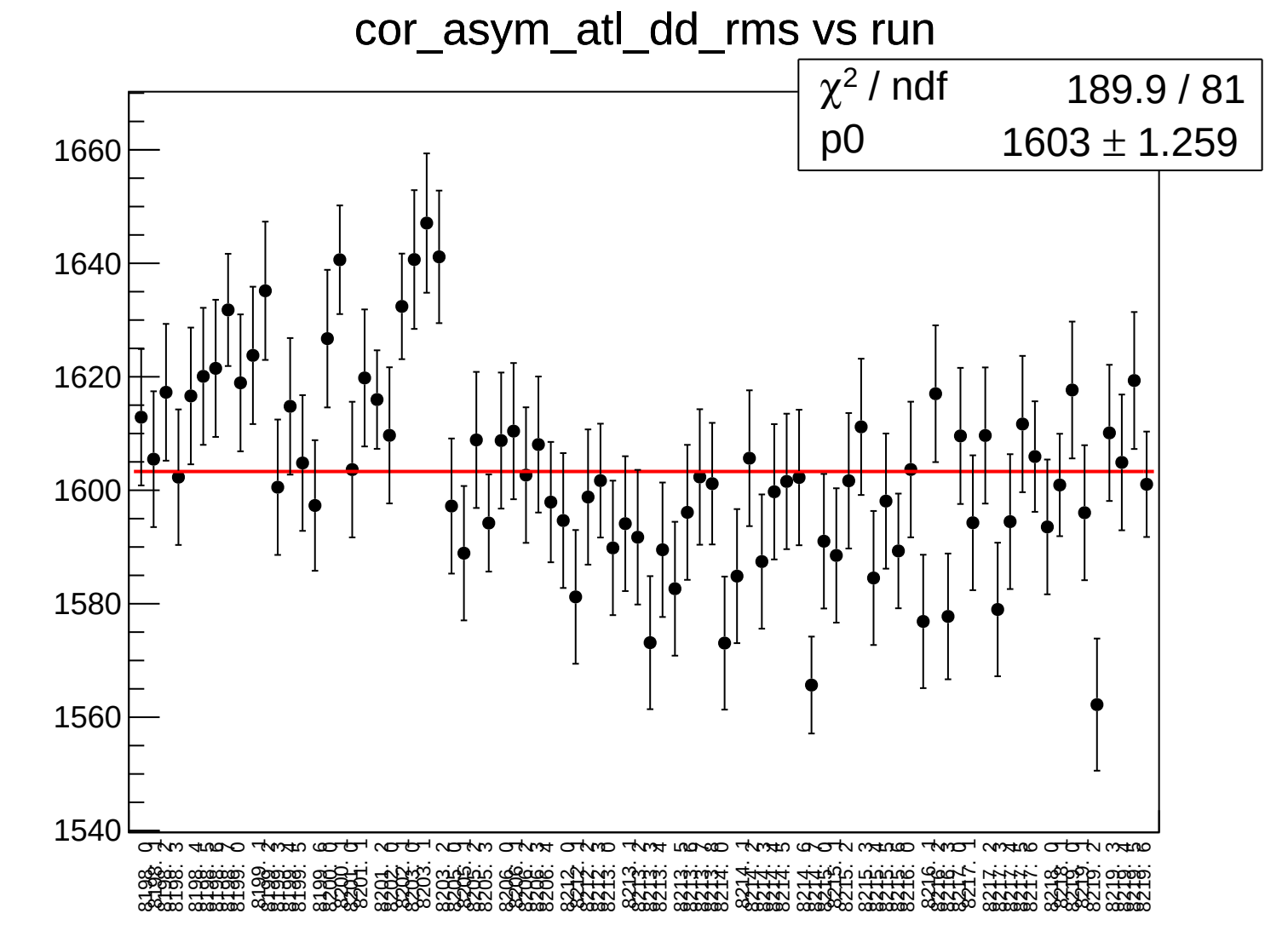

asym_atl_dd_reg_correction_mean vs run
χ² / ndf 98.01 / 81
p0 186.6 ± 5416
×10³
pull
Entries 82
Mean 87.93
Std Dev 0

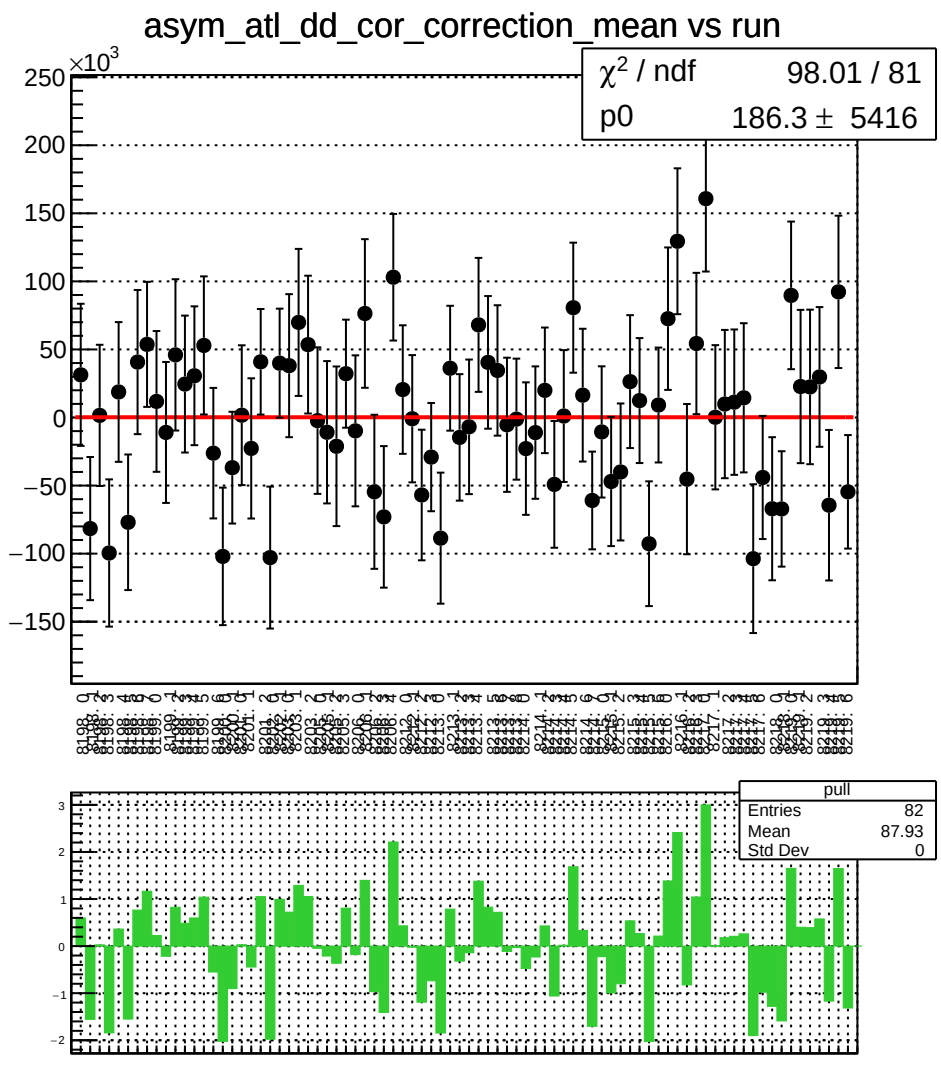

pull1D
Entries 82
Mean 0.01475
Std Dev 1.093

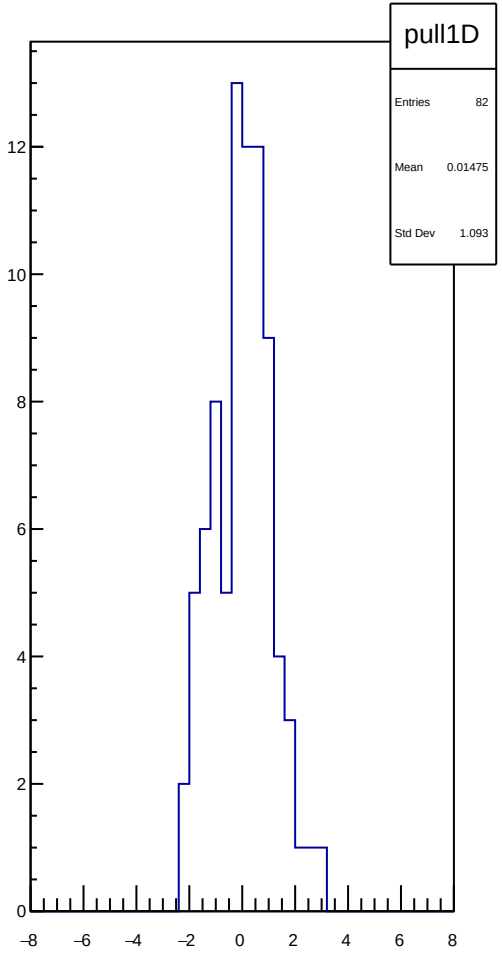

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 5963 / 81
p0 4867 ± 3.83
5600
5400
5200
5000
4800
4600
4400
4200

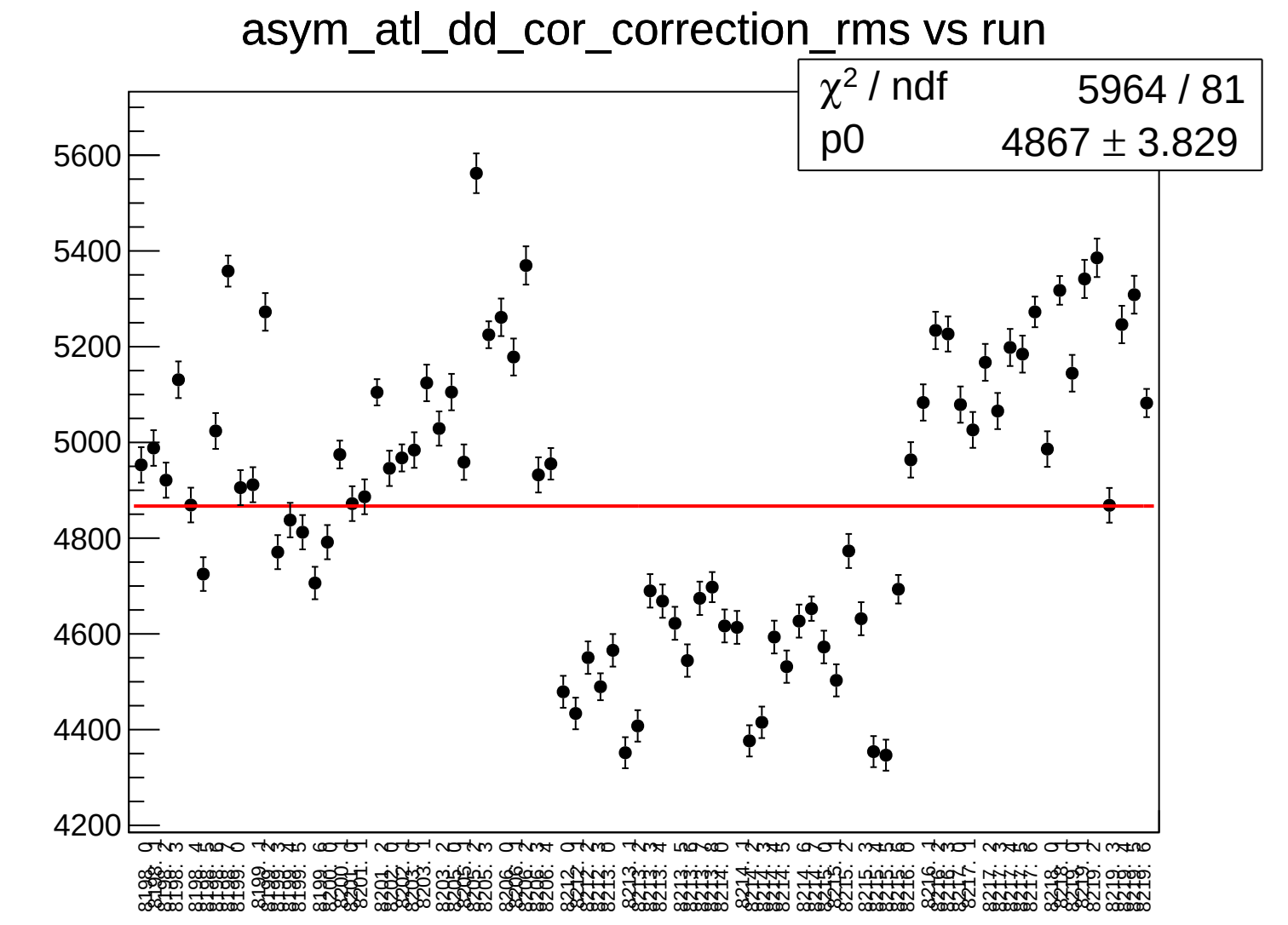

cor_asym_atl_dd_mean vs run
χ² / ndf 65.63 / 81
p0 1927 ± 1781
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 4671
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

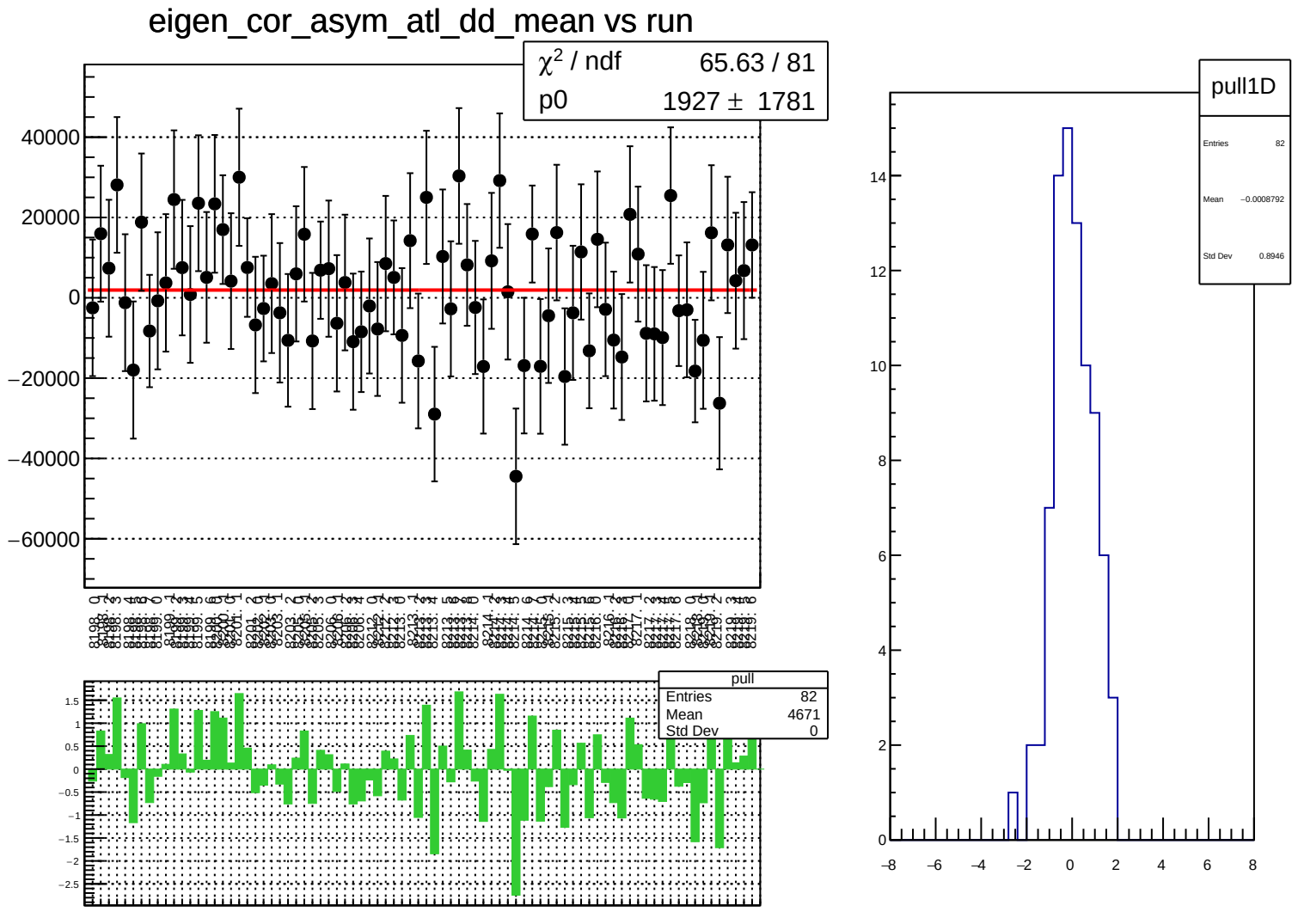

pull1D
Entries 82
Mean −0.0008792
Std Dev 0.8946
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

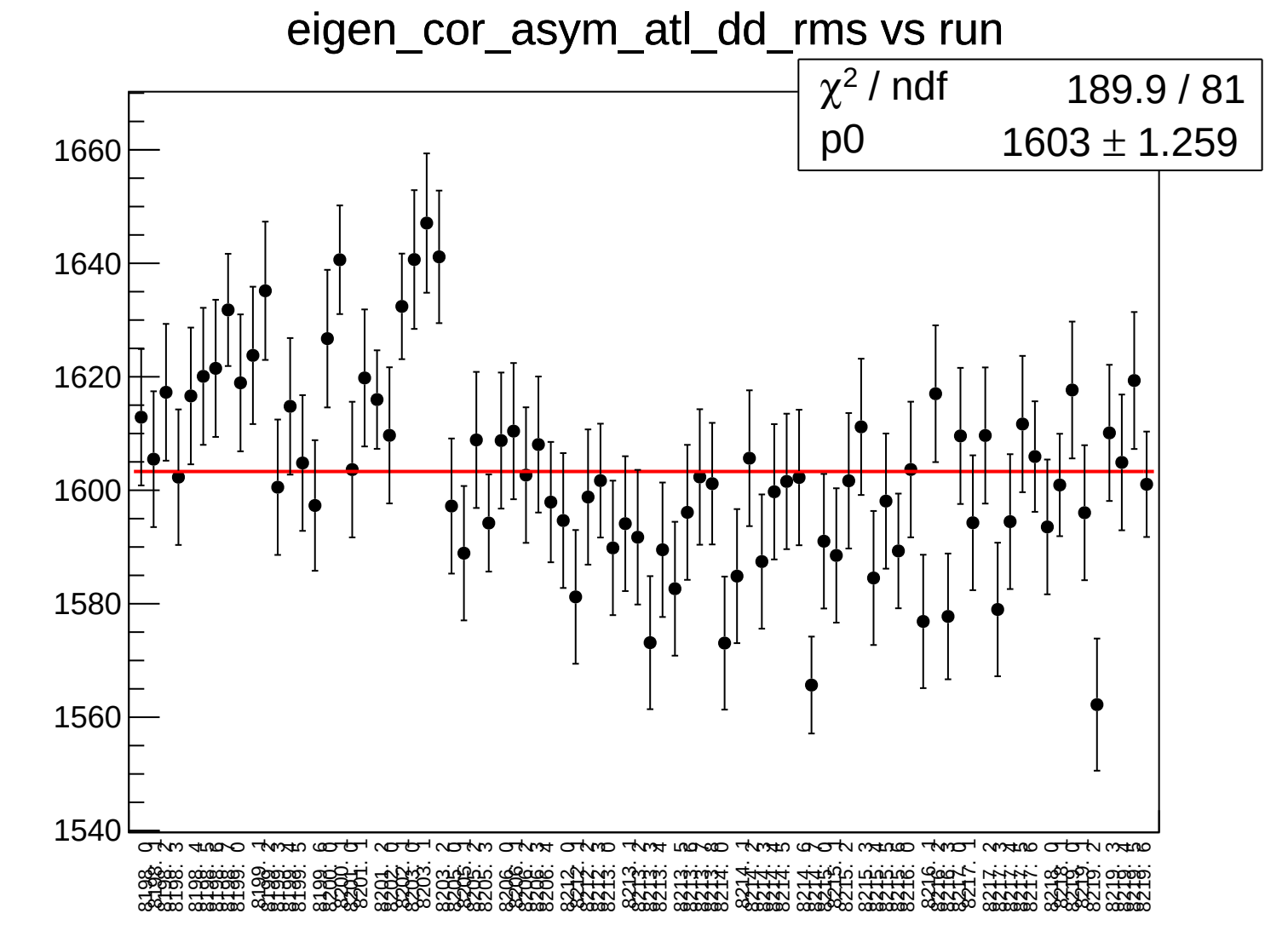

cor_asym_atl_dd_rms vs run
χ² / ndf 189.9 / 81
p0 1603 ± 1.259
1660
1640
1620
1600
1580
1560
1540

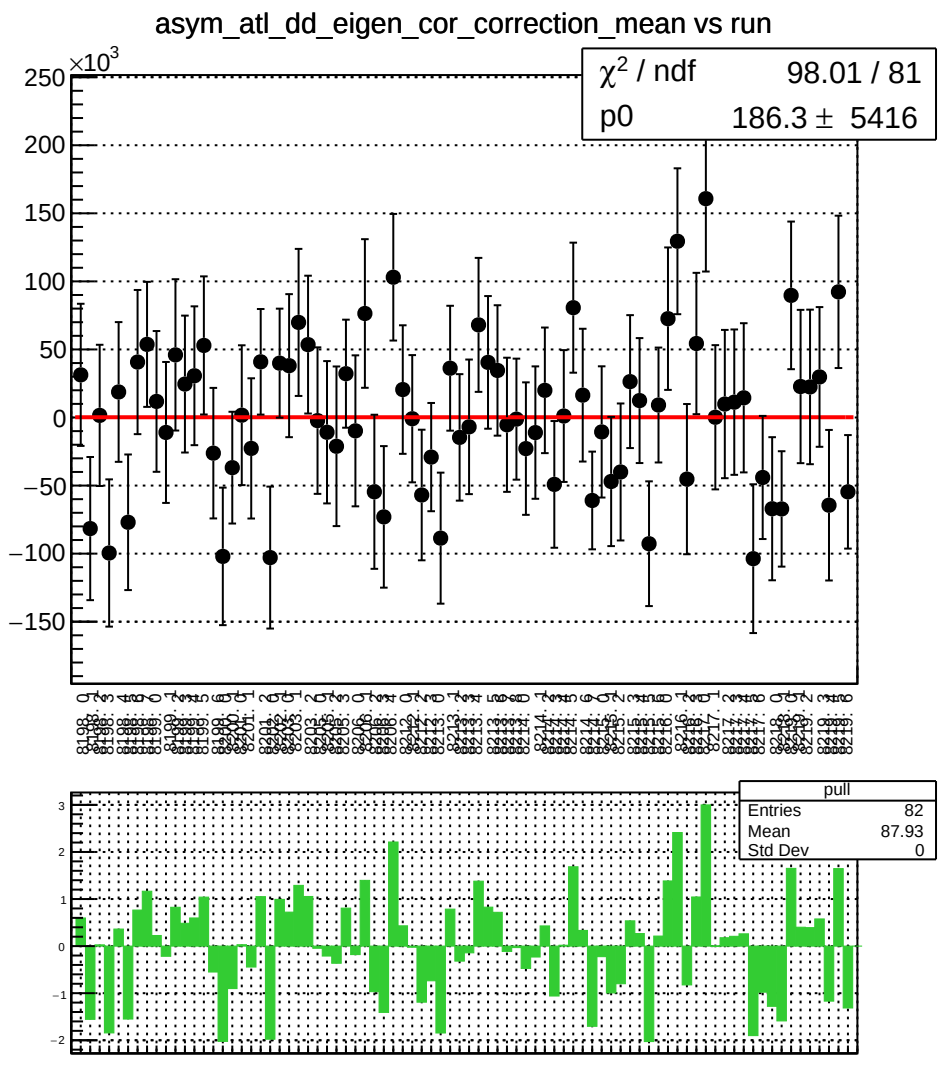

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 98.01 / 81
p0 186.3 ± 5416
×10³
pull
Entries 82
Mean 87.93
Std Dev 0

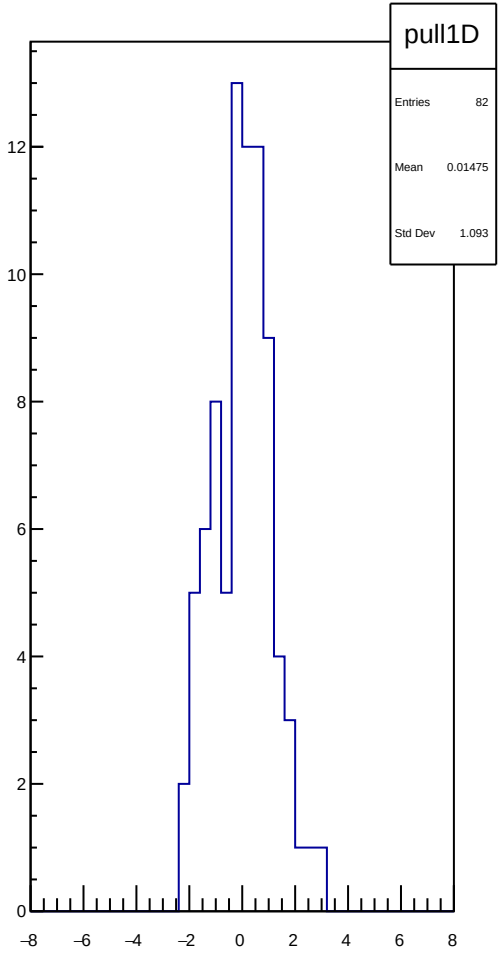

pull1D
Entries 82
Mean 0.01475
Std Dev 1.093

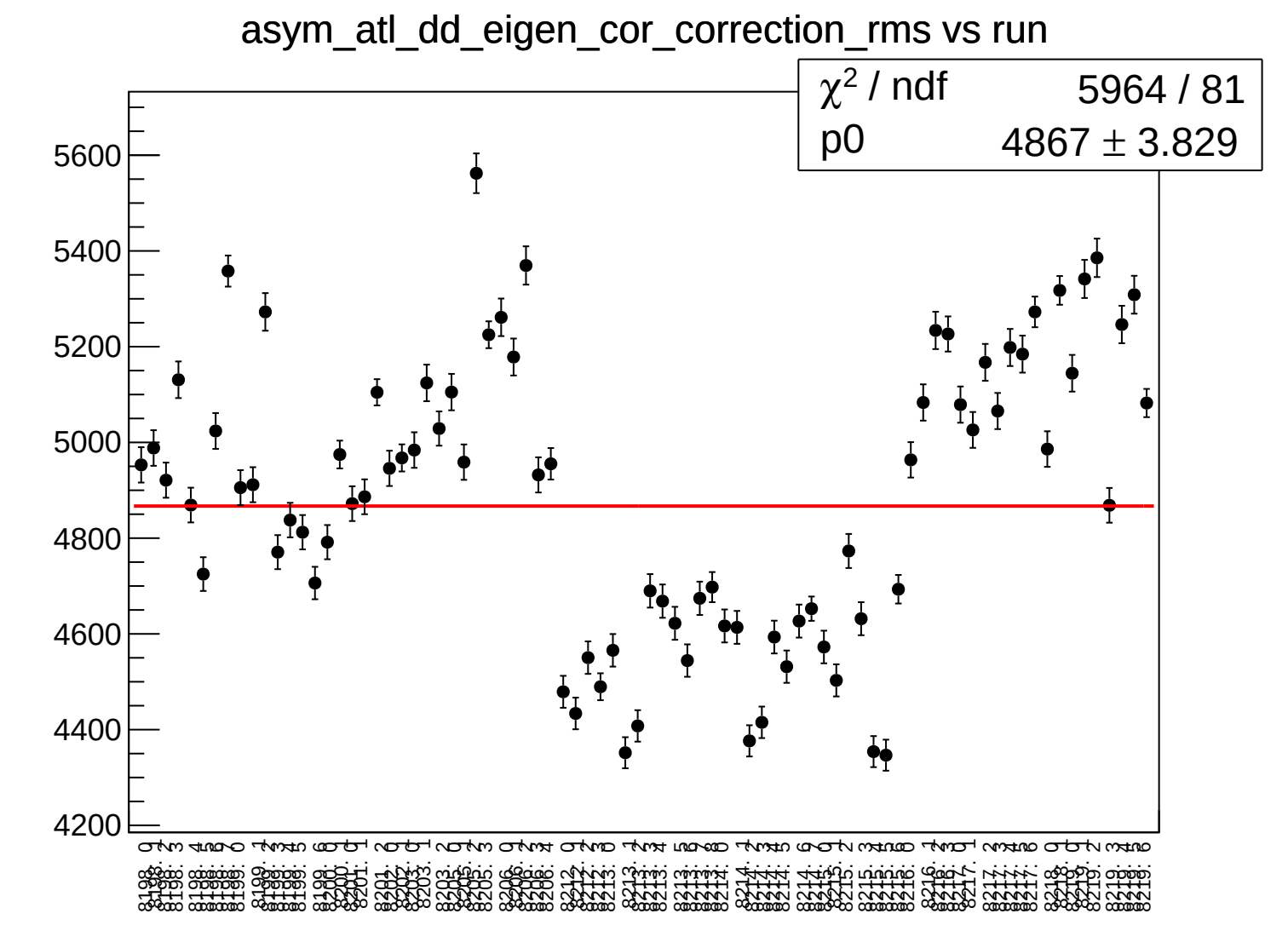

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 5964 / 81
p0 4867 ± 3.829
5600
5400
5200
5000
4800
4600
4400
4200

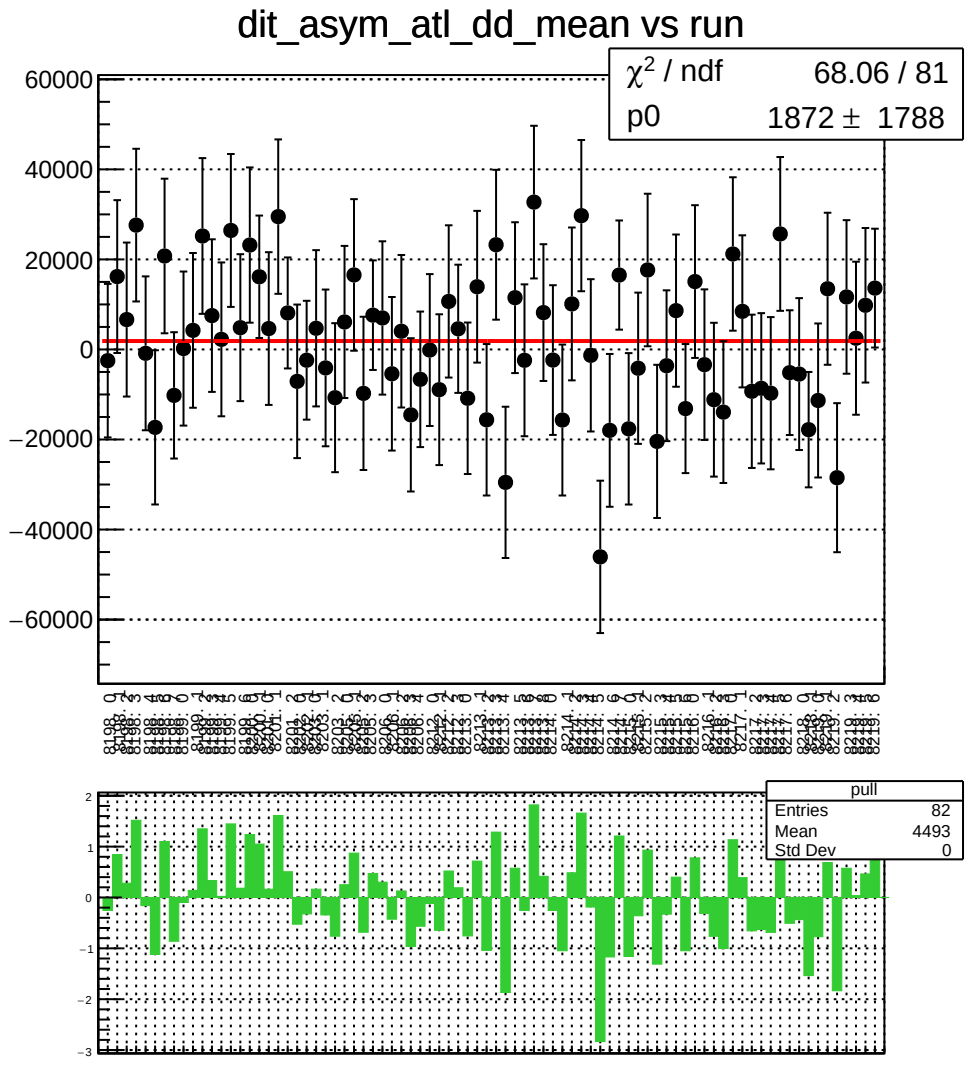

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 65.63 / 81
p0 1927 ± 1781
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 4671
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean −0.0008792
Std Dev 0.8946
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

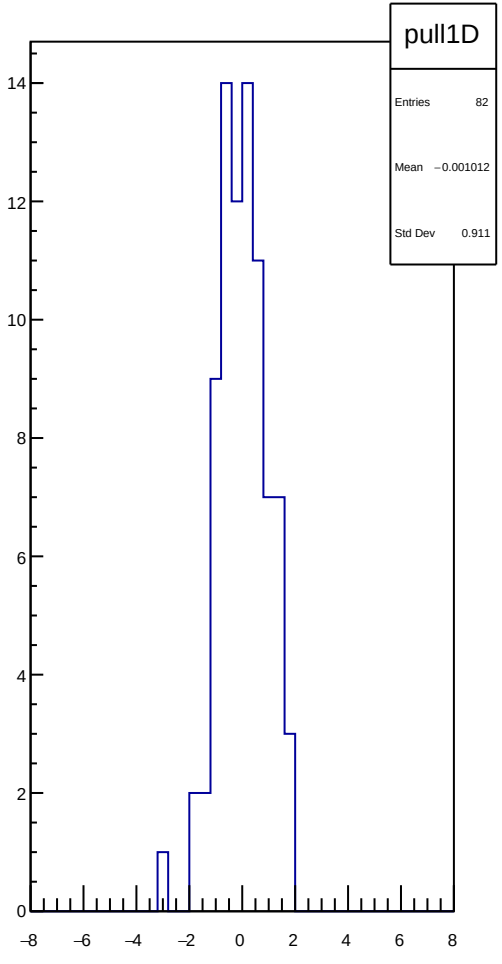

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 189.9 / 81
p0 1603 ± 1.259
1660
1640
1620
1600
1580
1560
1540

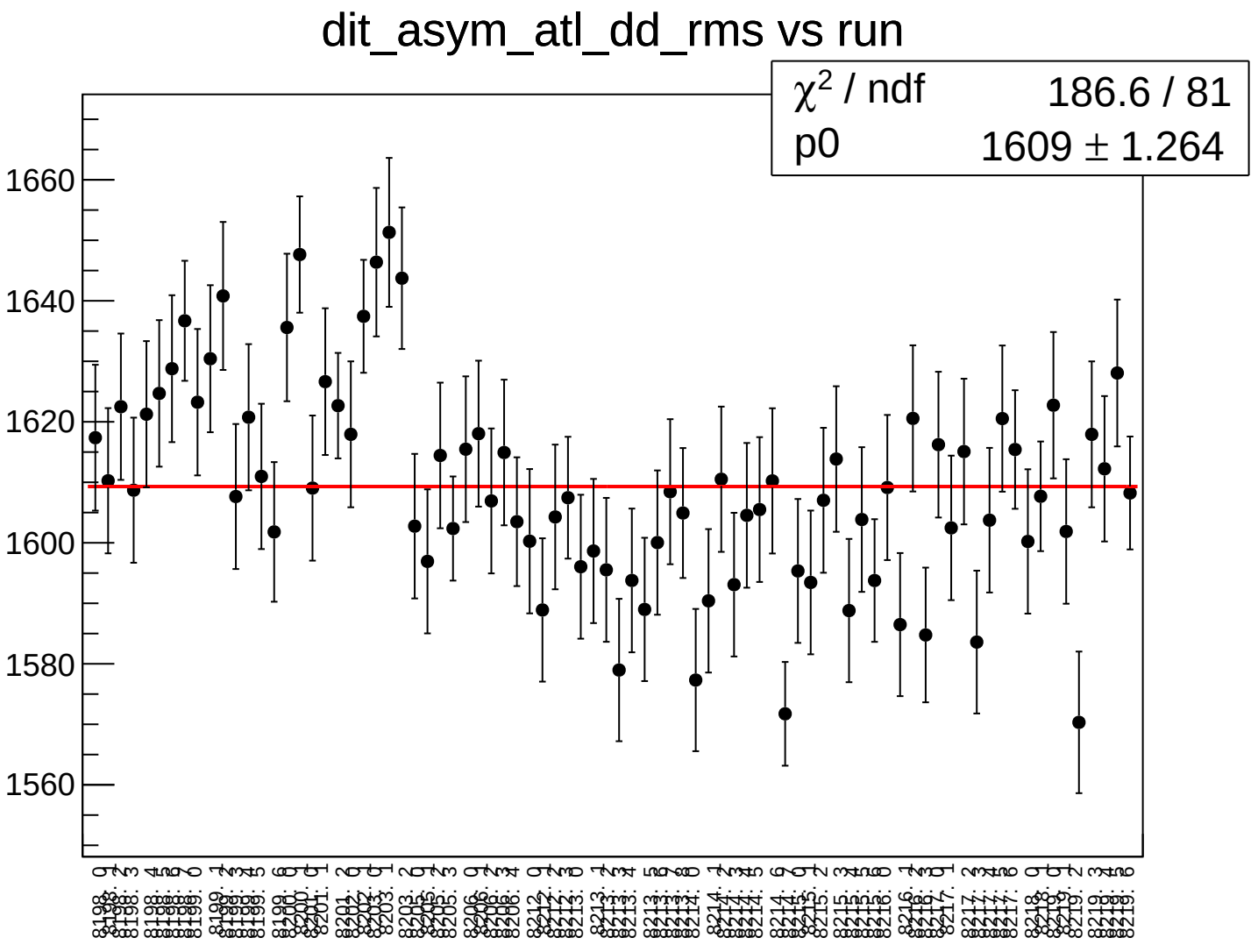

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.01 / 81
p0 186.3 ± 5416
pull
Entries 82
Mean 87.93
Std Dev 0

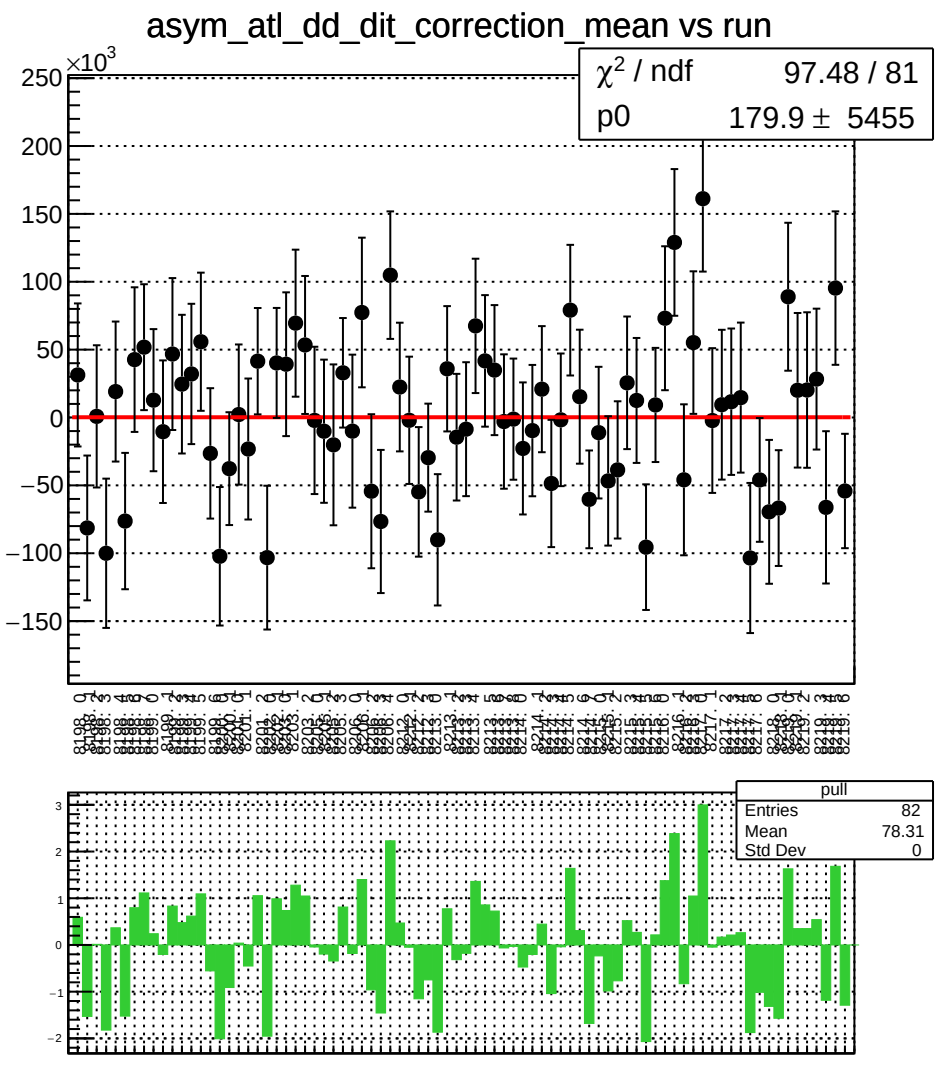

pull1D
Entries 82
Mean 0.01475
Std Dev 1.093

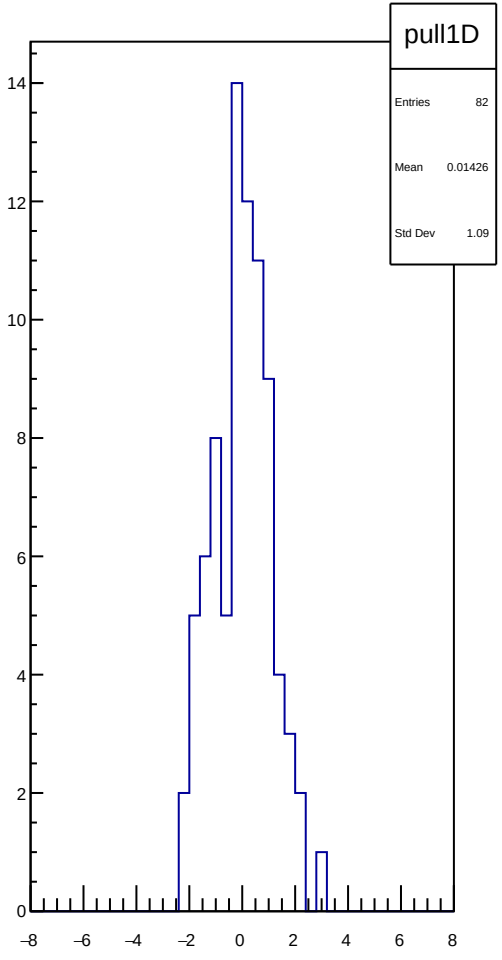

asym_atl_dd_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 5964 / 81
p0 4867 ± 3.829
5600
5400
5200
5000
4800
4600
4400
4200

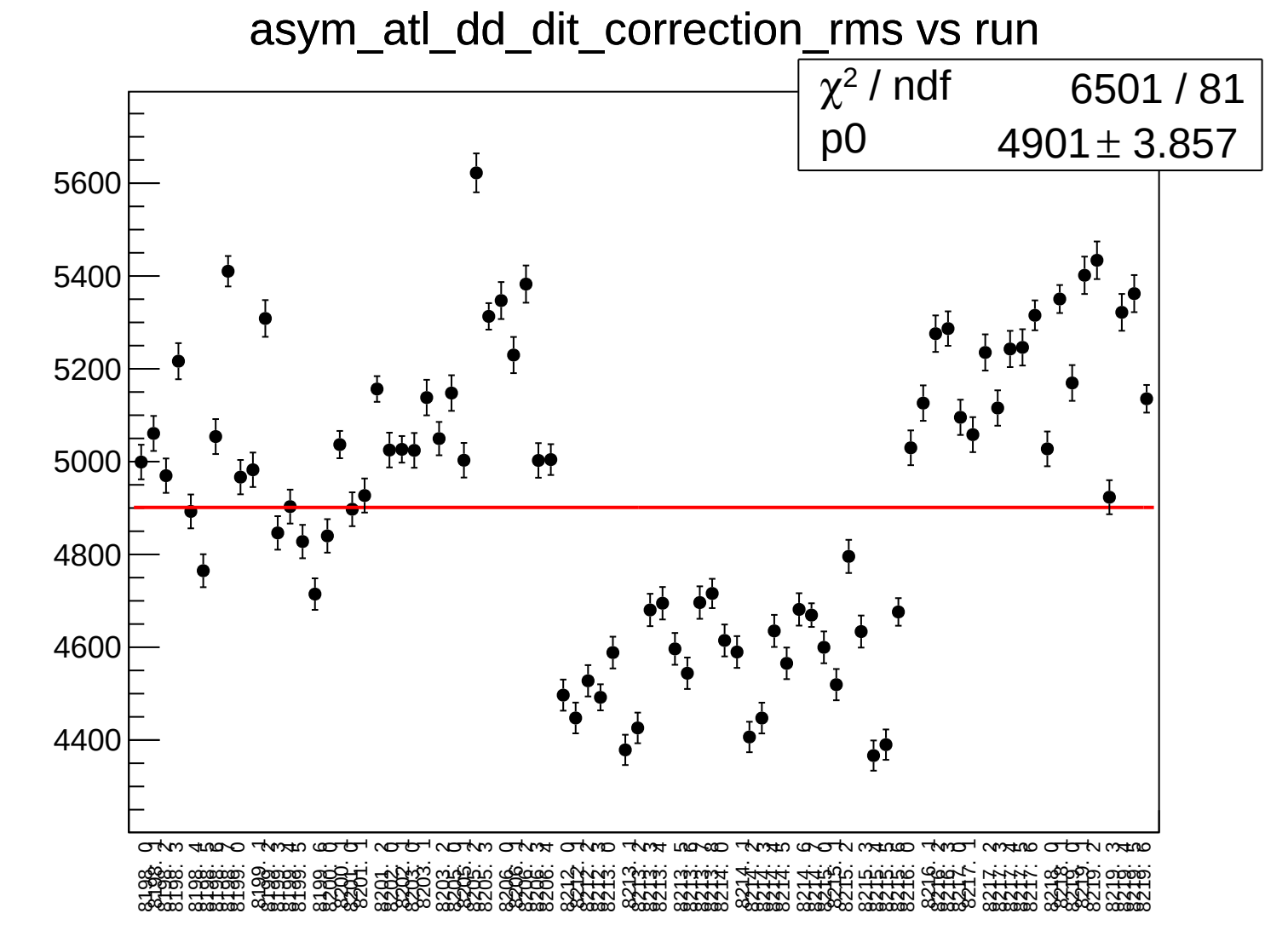

dit_asym_atl_dd_mean vs run
χ² / ndf 68.06 / 81
p0 1872 ± 1788
pull
Entries 82
Mean 4493
Std Dev 0

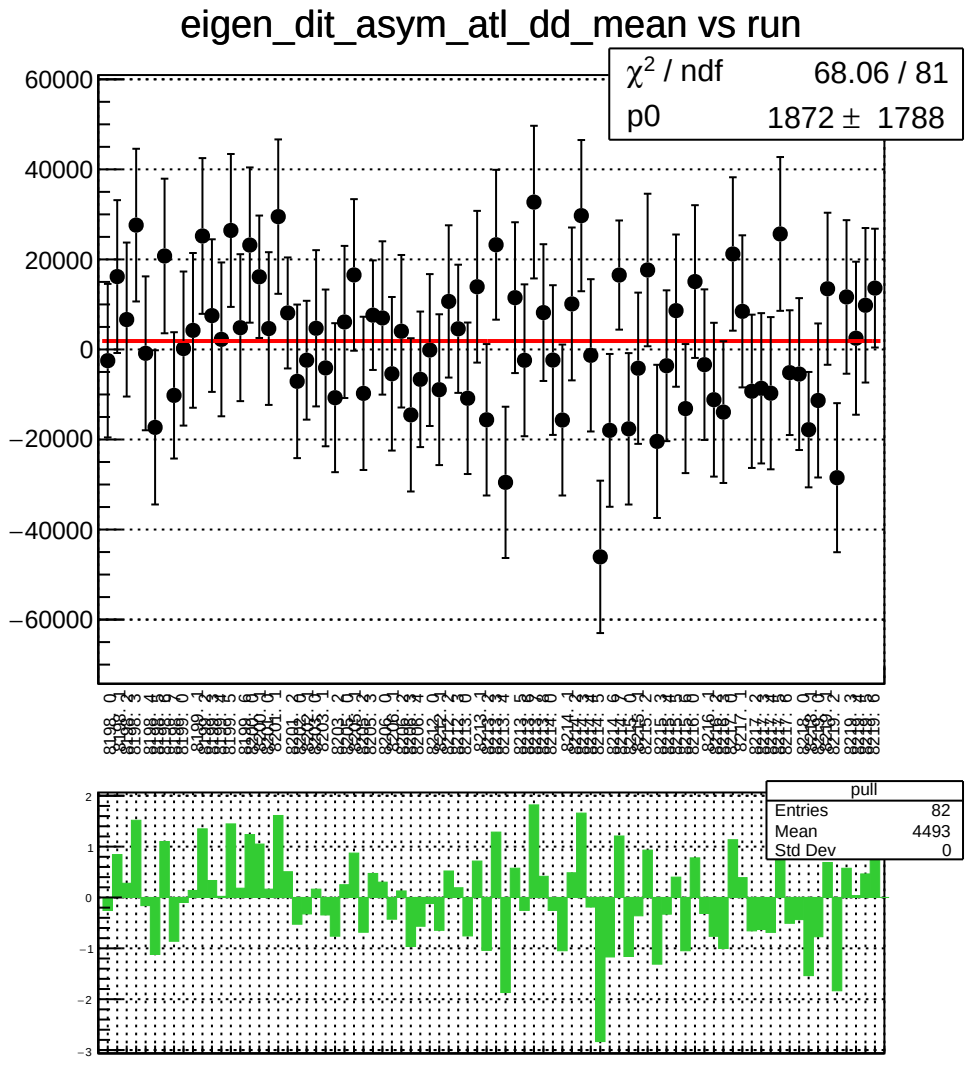

pull1D
Entries 82
Mean −0.001012
Std Dev 0.911

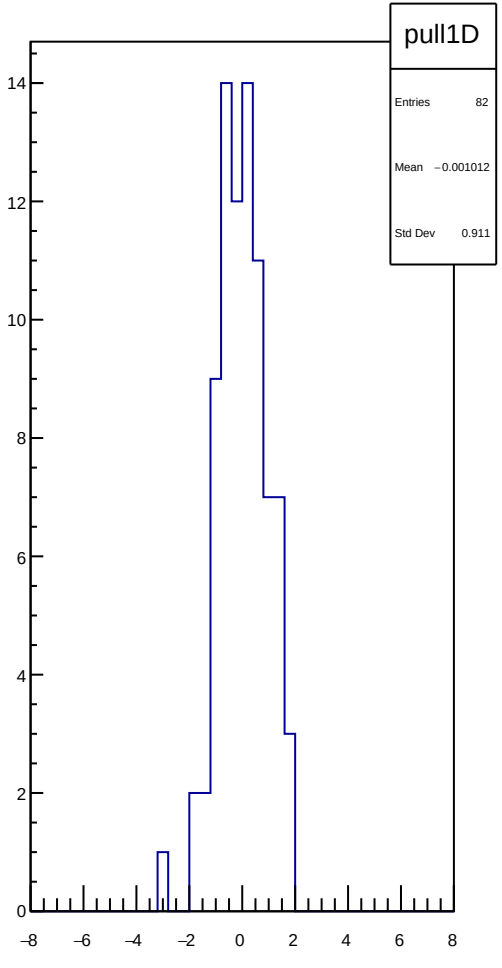

dit_asym_atl_dd_rms vs run
χ² / ndf 186.6 / 81
p0 1609 ± 1.264
1660
1640
1620
1600
1580
1560

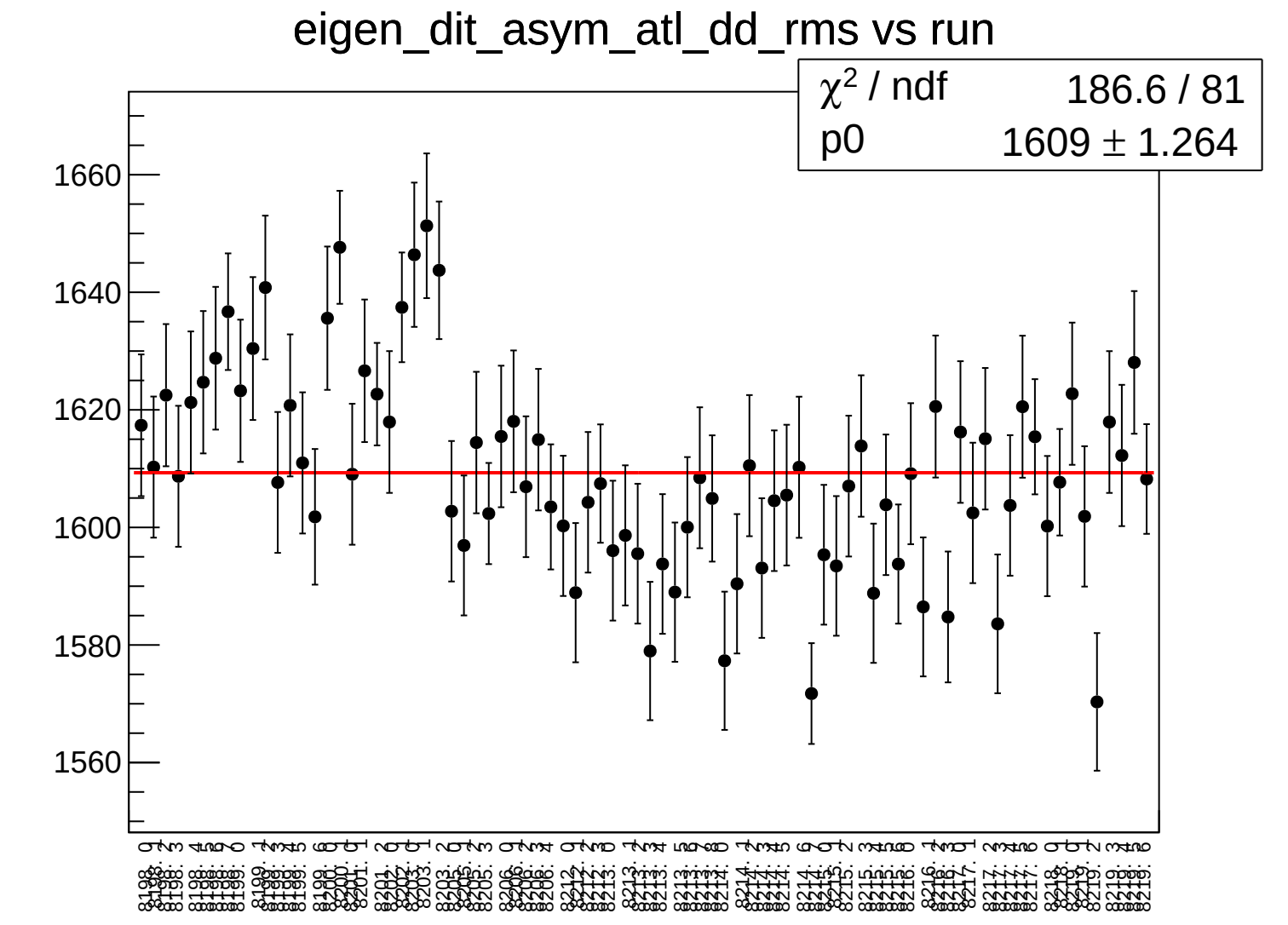

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 97.48 / 81
p0 179.9 ± 5455
×10³
pull
Entries 82
Mean 78.31
Std Dev 0

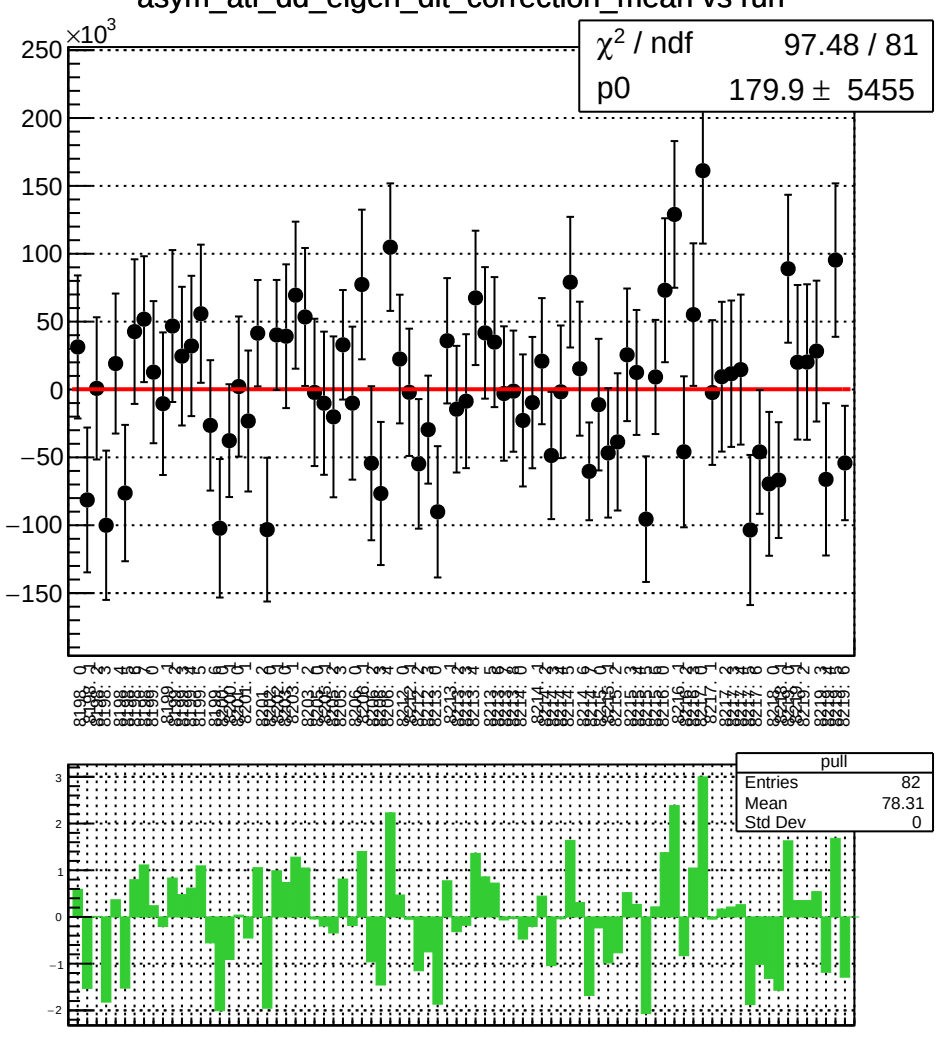

pull1D
Entries 82
Mean 0.01426
Std Dev 1.09

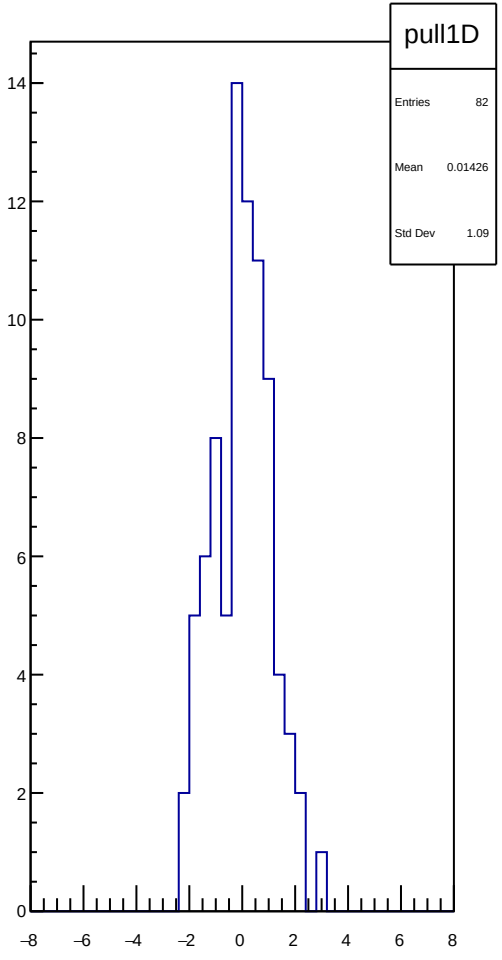

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 6501 / 81
p0 4901 ± 3.857
5600
5400
5200
5000
4800
4600
4400

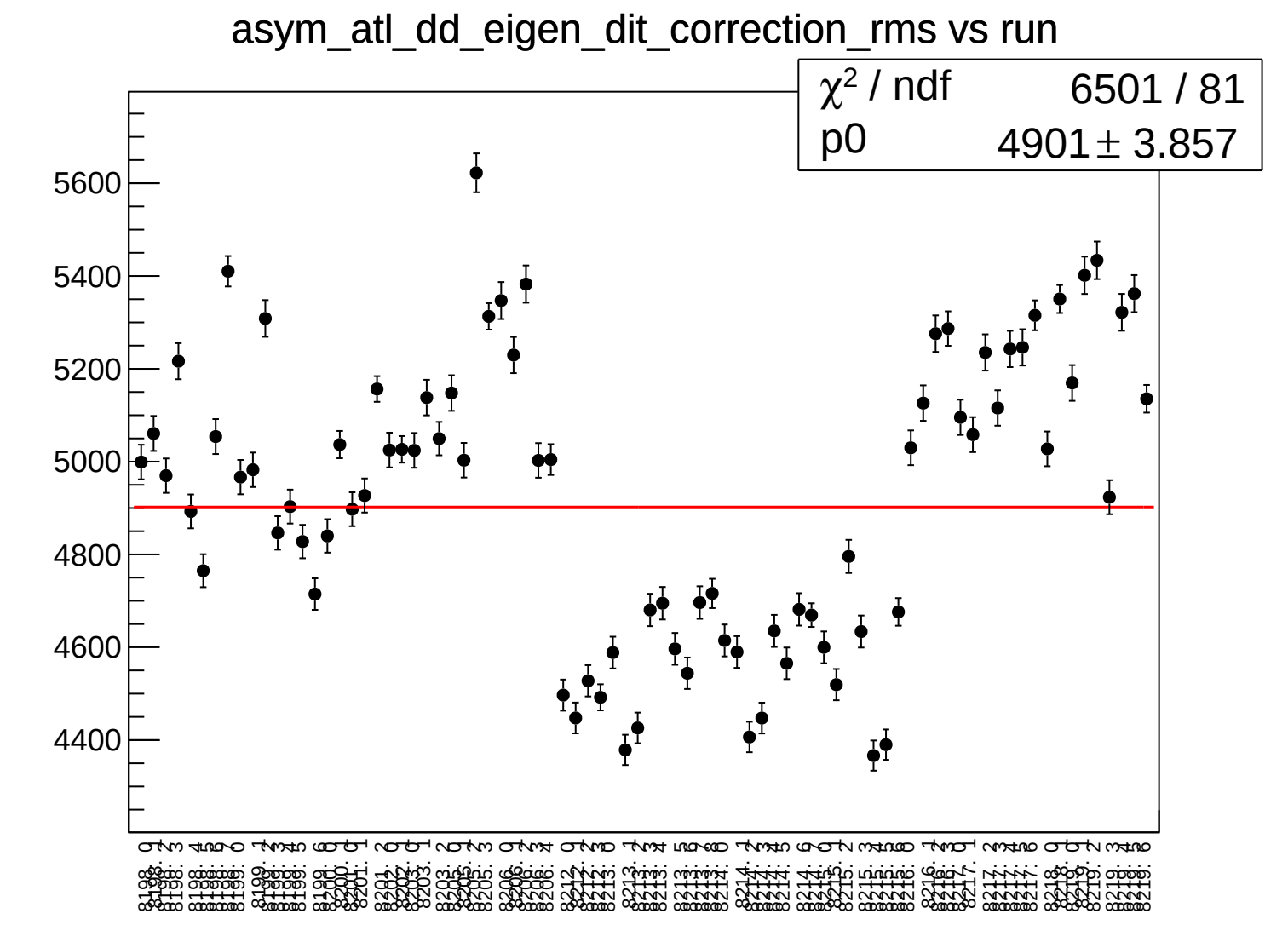

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 68.06 / 81
p0 1872 ± 1788
pull
Entries 82
Mean 4493
Std Dev 0

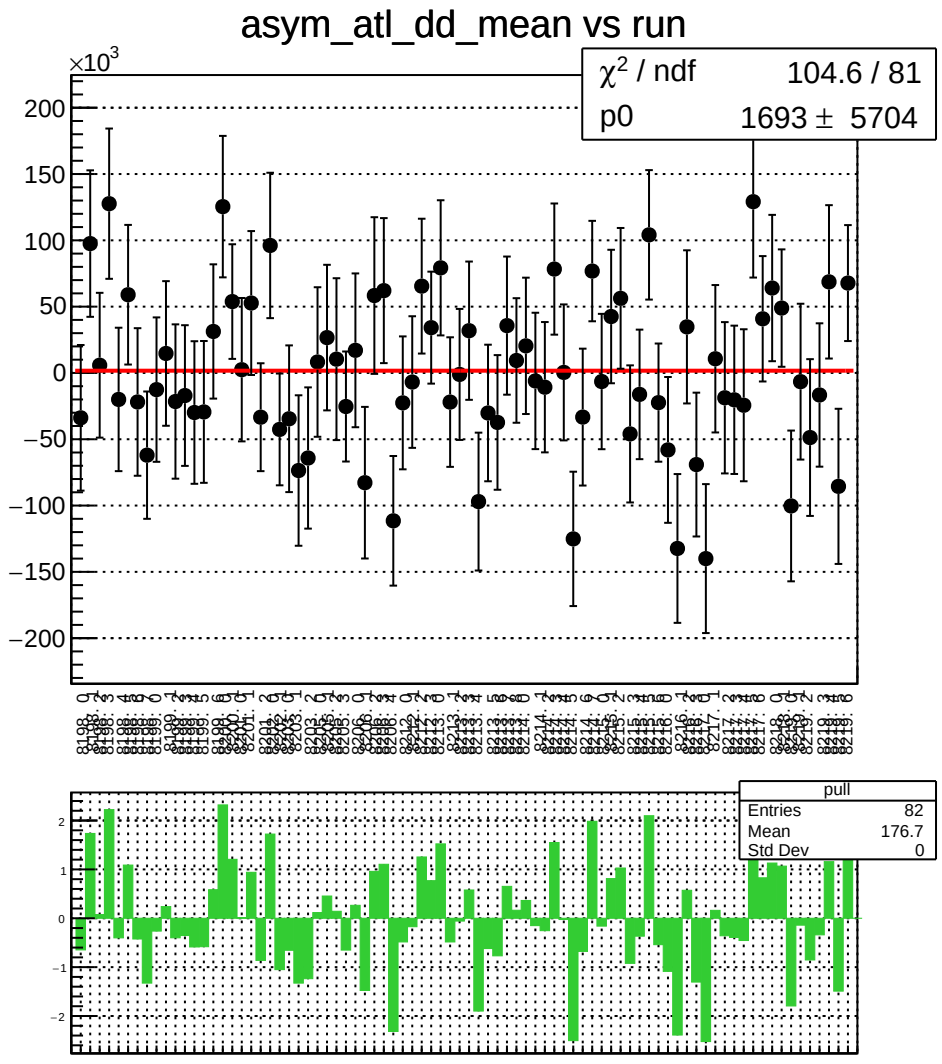

pull1D
Entries 82
Mean −0.001012
Std Dev 0.911

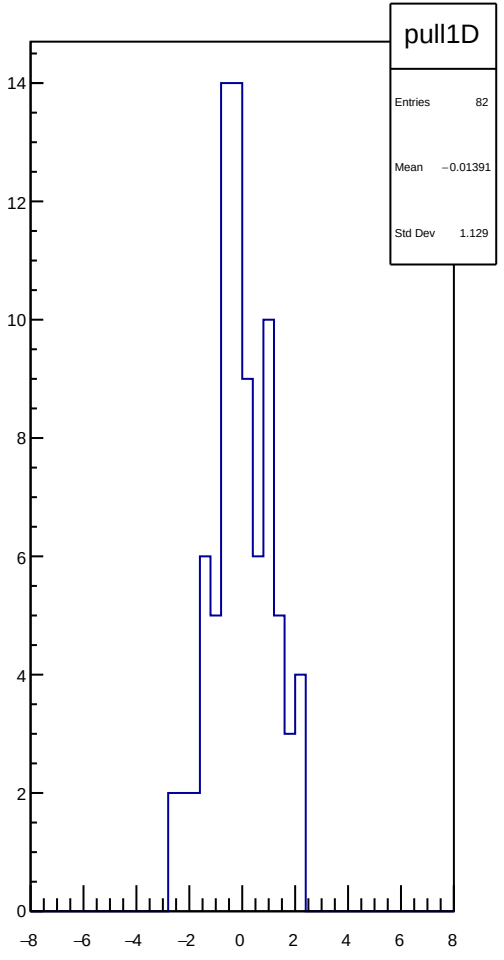

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 186.6 / 81
p0 1609 ± 1.264
1660
1640
1620
1600
1580
1560

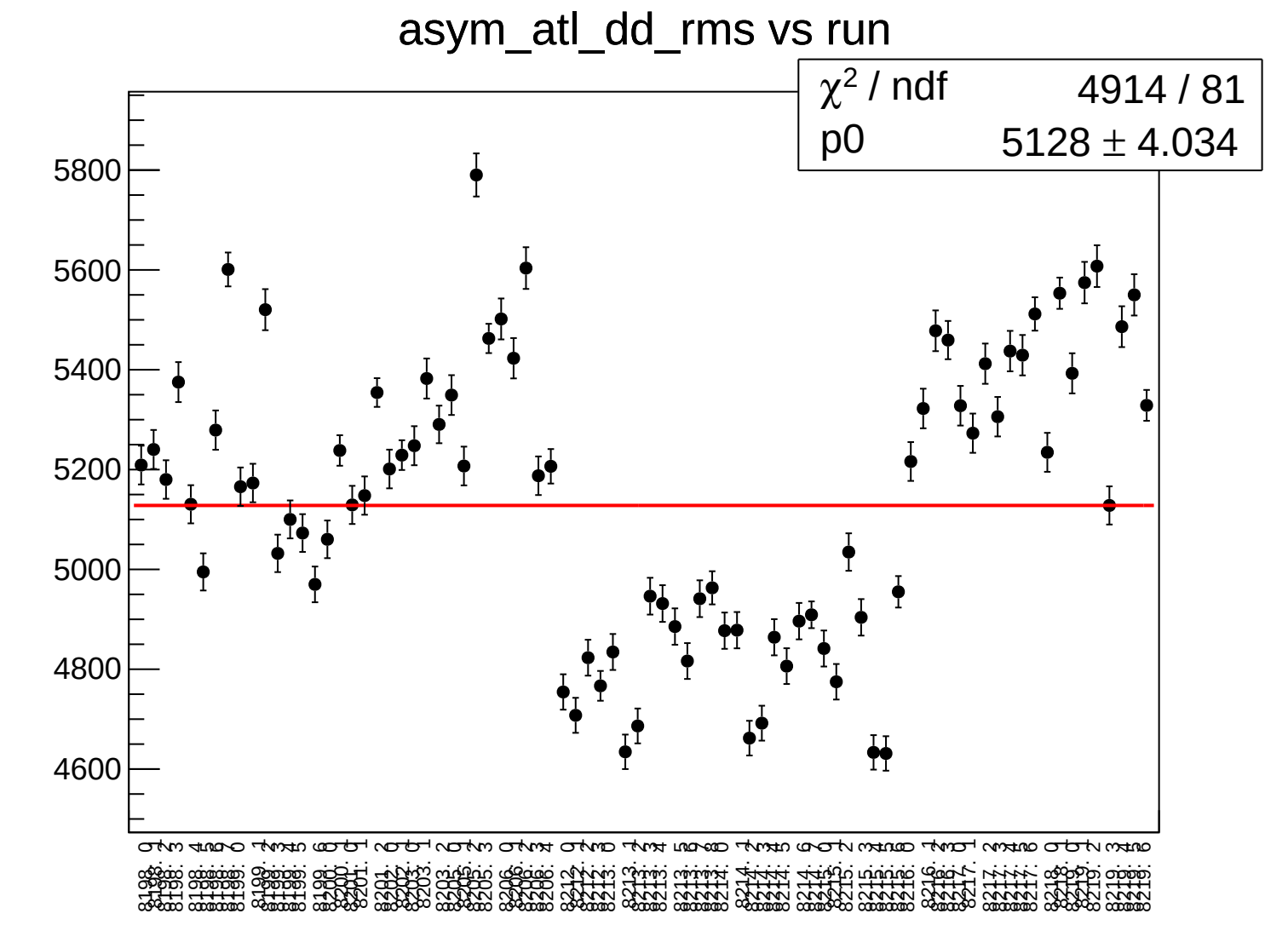

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.48 / 81
p0 179.9 ± 5455
pull
Entries 82
Mean 78.31
Std Dev 0

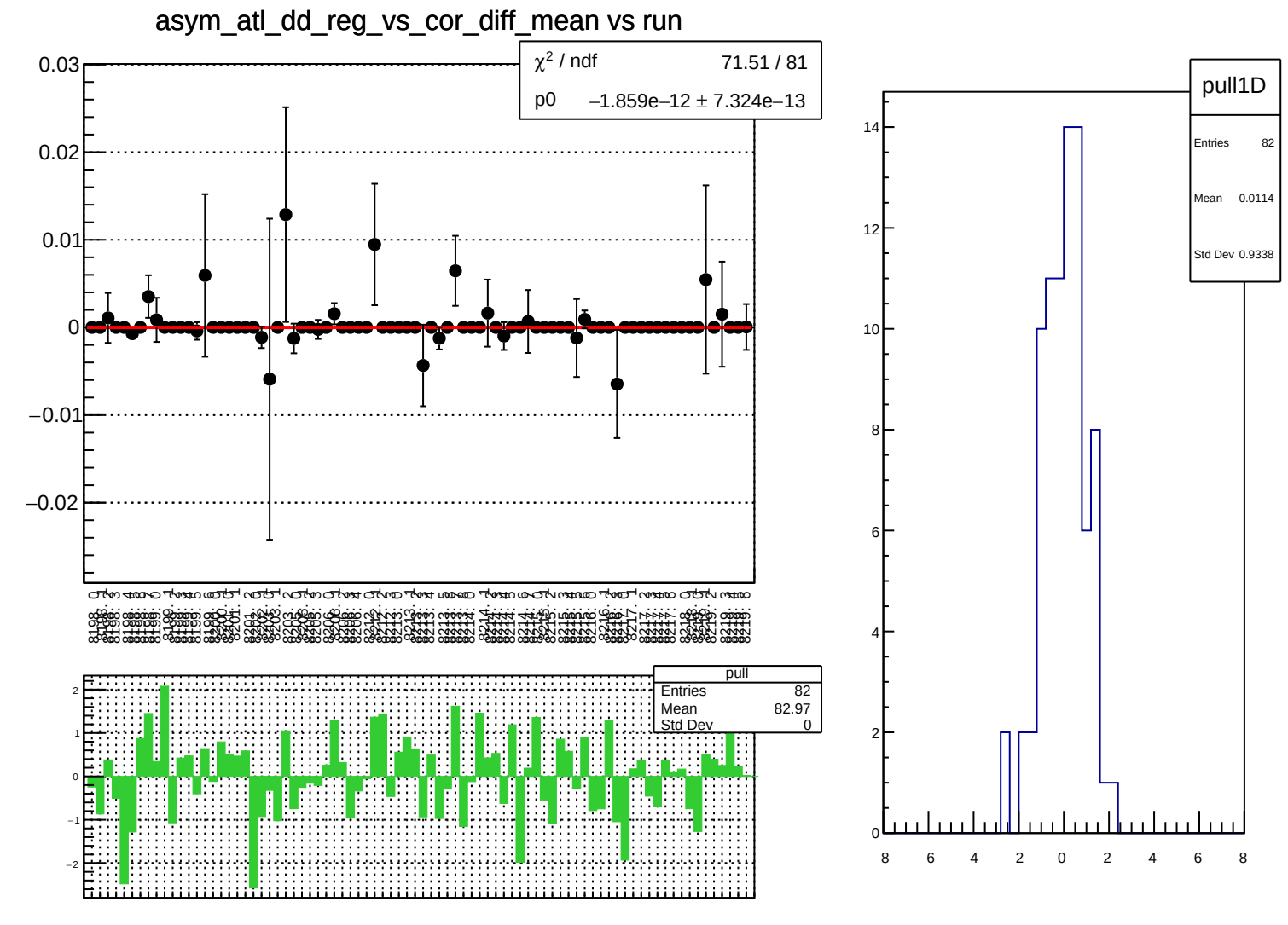

pull1D
Entries 82
Mean 0.01426
Std Dev 1.09

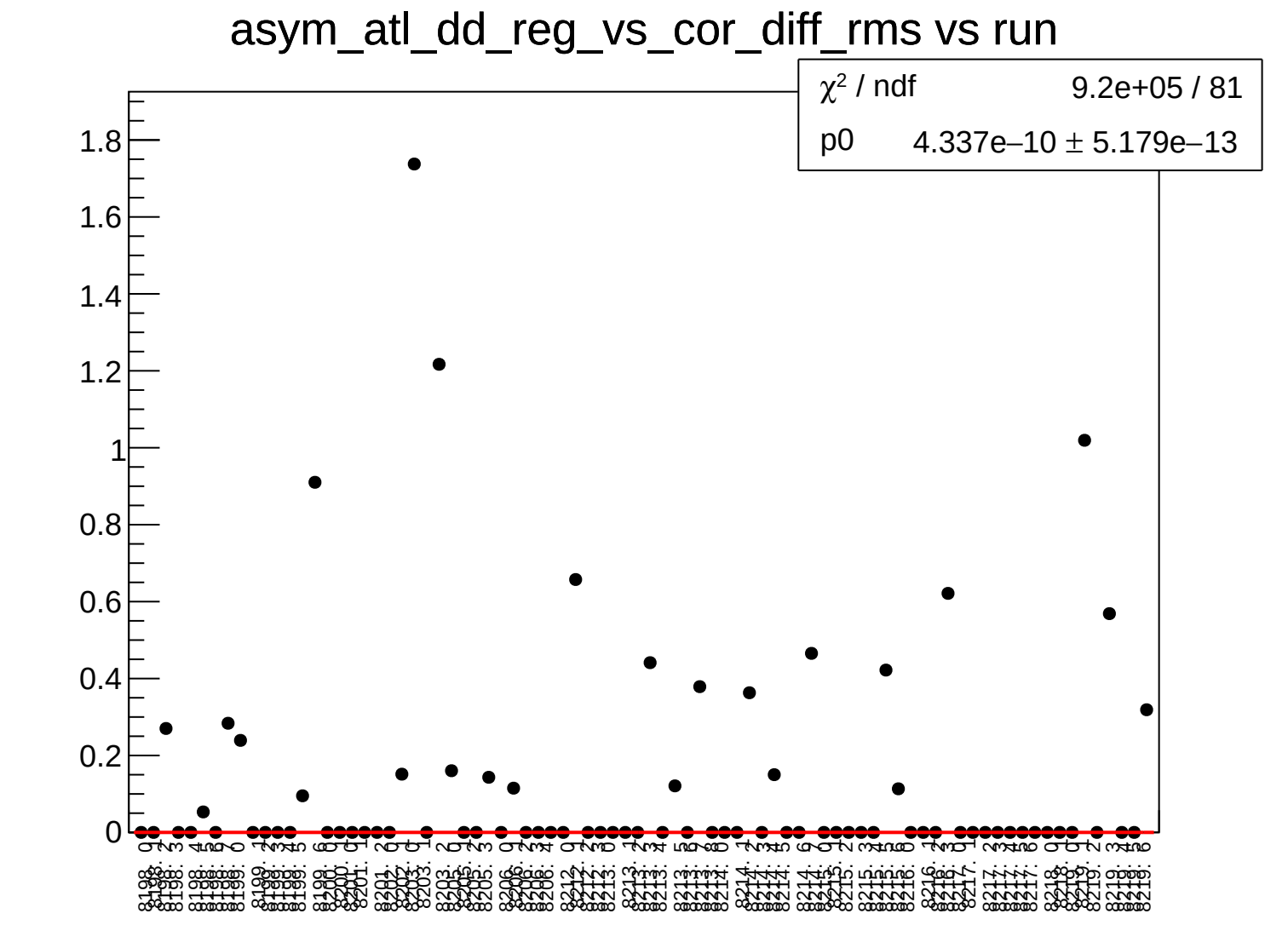

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 6501 / 81
p0 4901 ± 3.857
5600
5400
5200
5000
4800
4600
4400

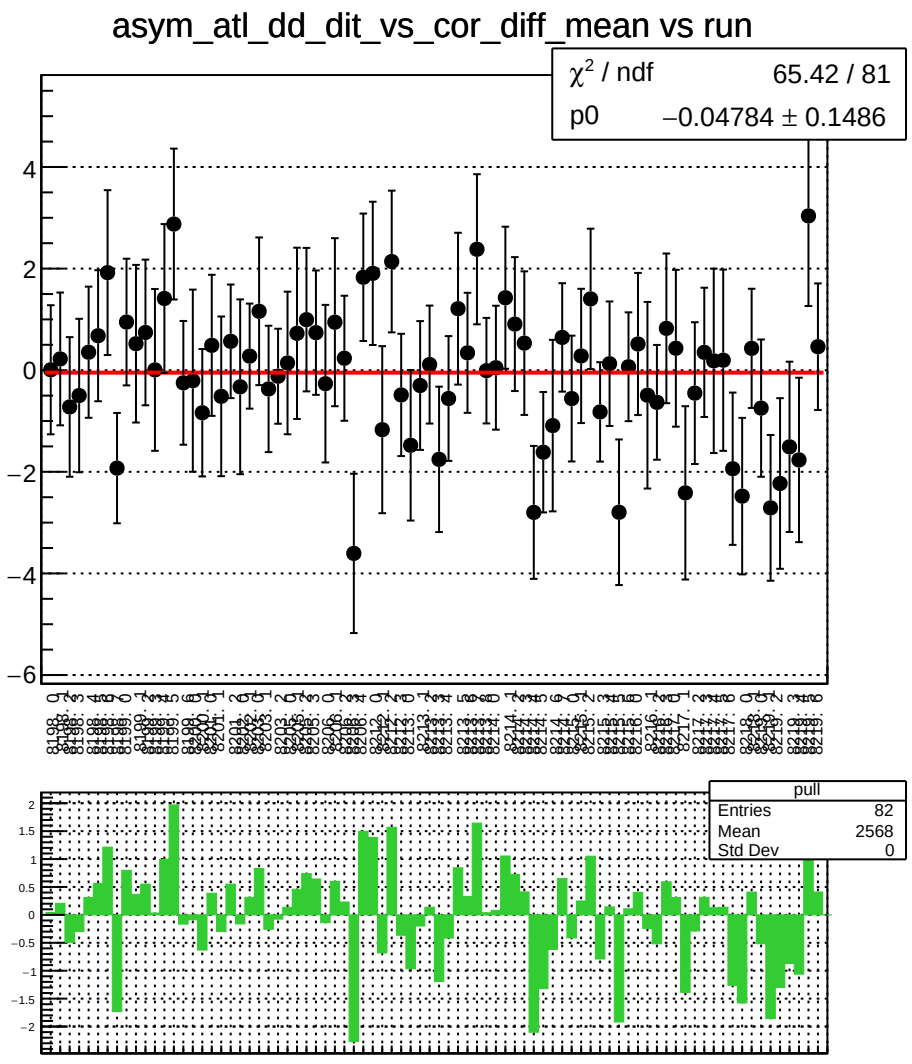

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 104.6 / 81
p0 1693 ± 5704
pull
Entries 82
Mean 176.7
Std Dev 0

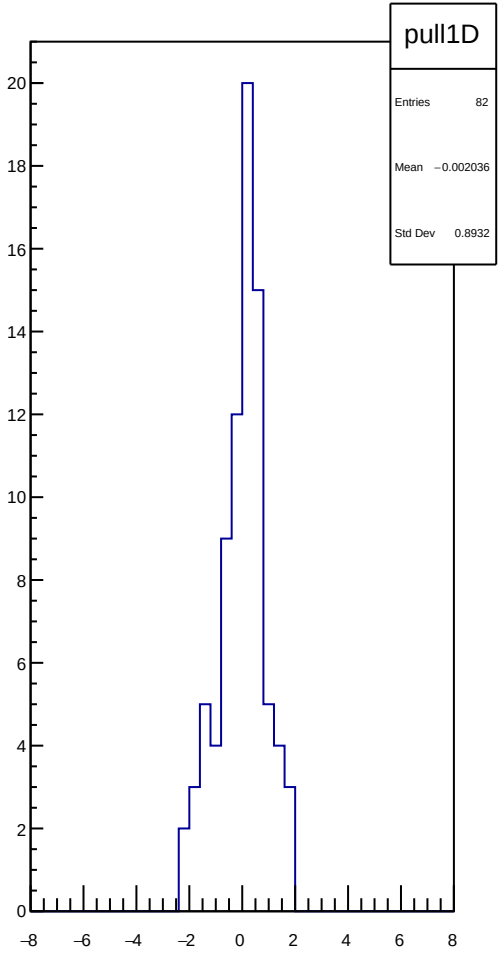

pull1D
Entries 82
Mean −0.01391
Std Dev 1.129

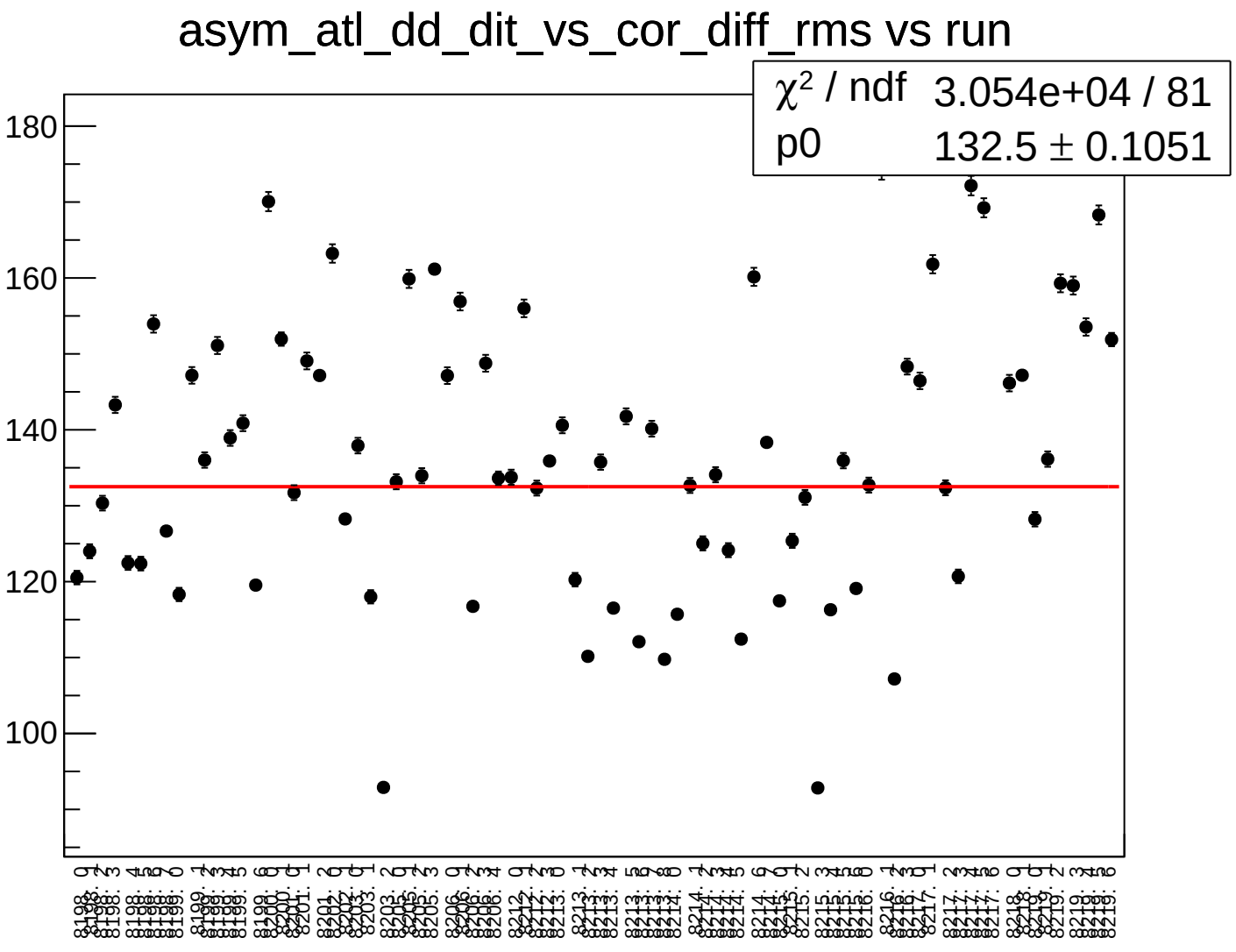

asym_atl_dd_rms vs run
χ² / ndf 4914 / 81
p0 5128 ± 4.034
5800
5600
5400
5200
5000
4800
4600

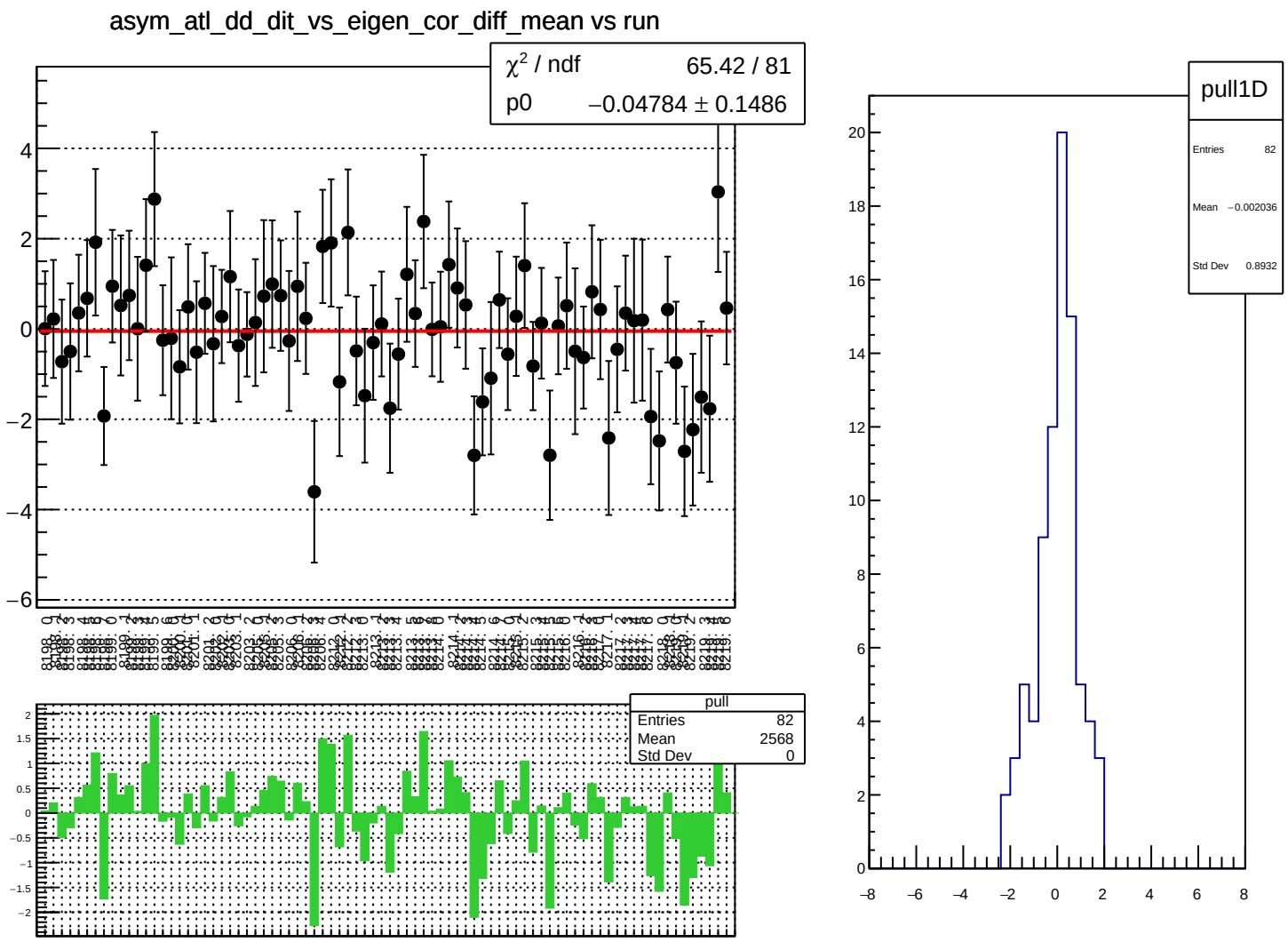

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71.51 / 81
p0 −1.859e−12 ± 7.324e−13
pull
Entries 82
Mean 82.97
Std Dev 0
pull1D
Entries 82
Mean 0.0114
Std Dev 0.9338

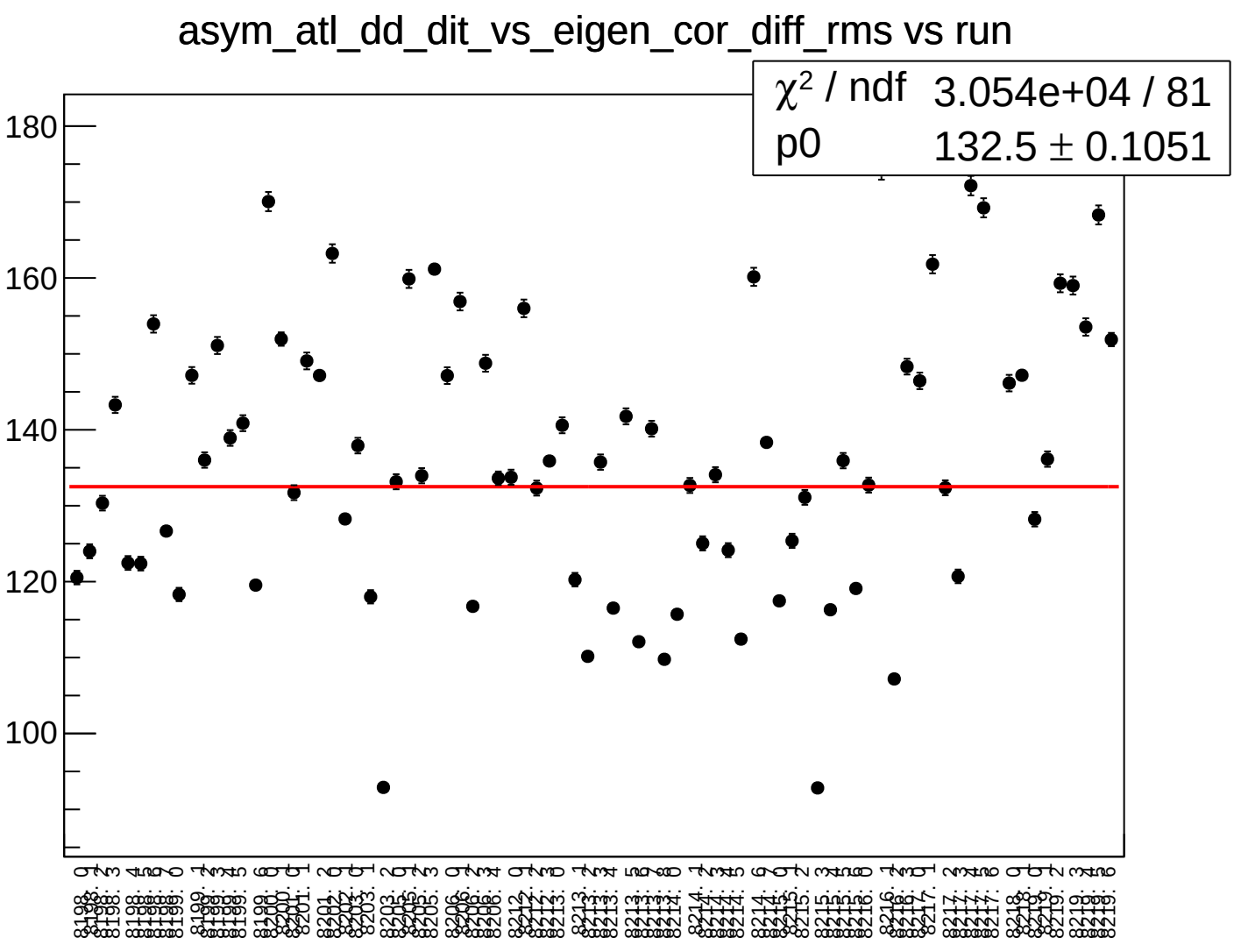

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.2e+05 / 81
p0 4.337e−10 ± 5.179e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

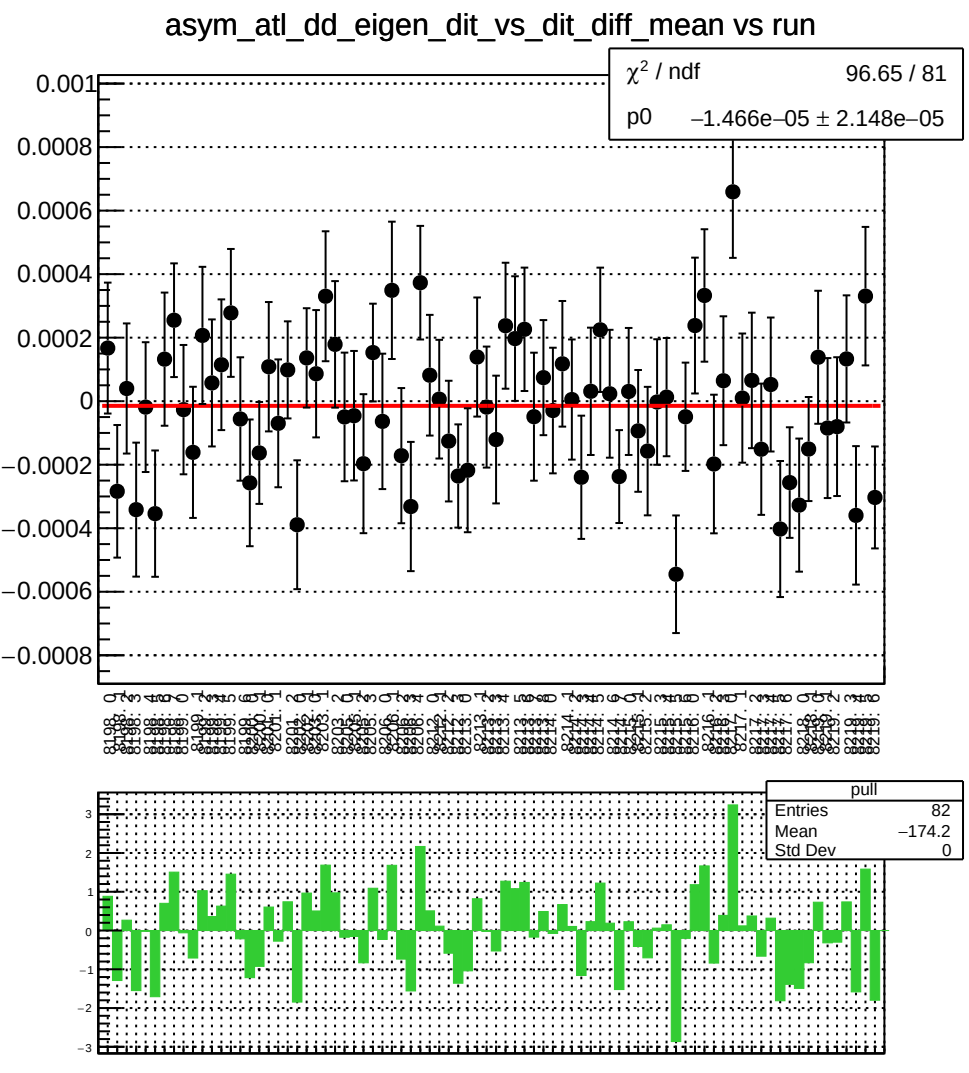

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.42 / 81
p0 −0.04784 ± 0.1486
pull
Entries 82
Mean 2568
Std Dev 0

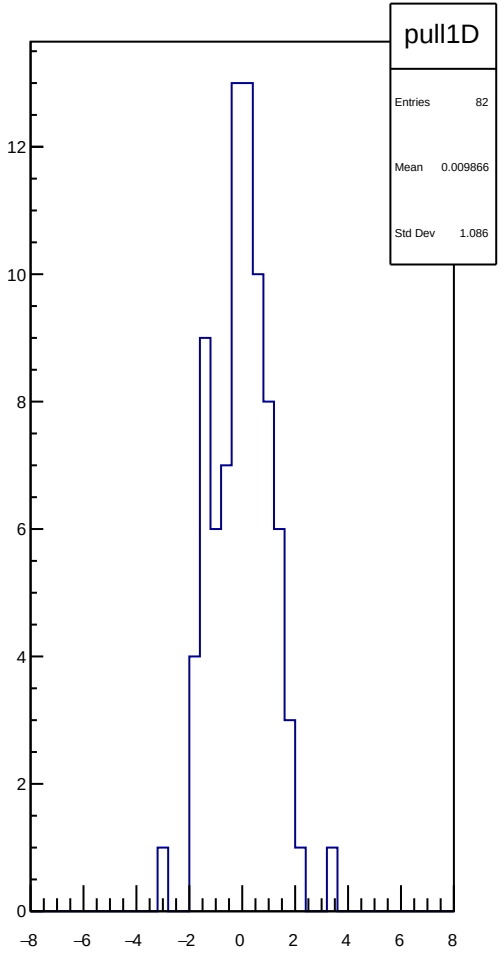

pull1D
Entries 82
Mean −0.002036
Std Dev 0.8932

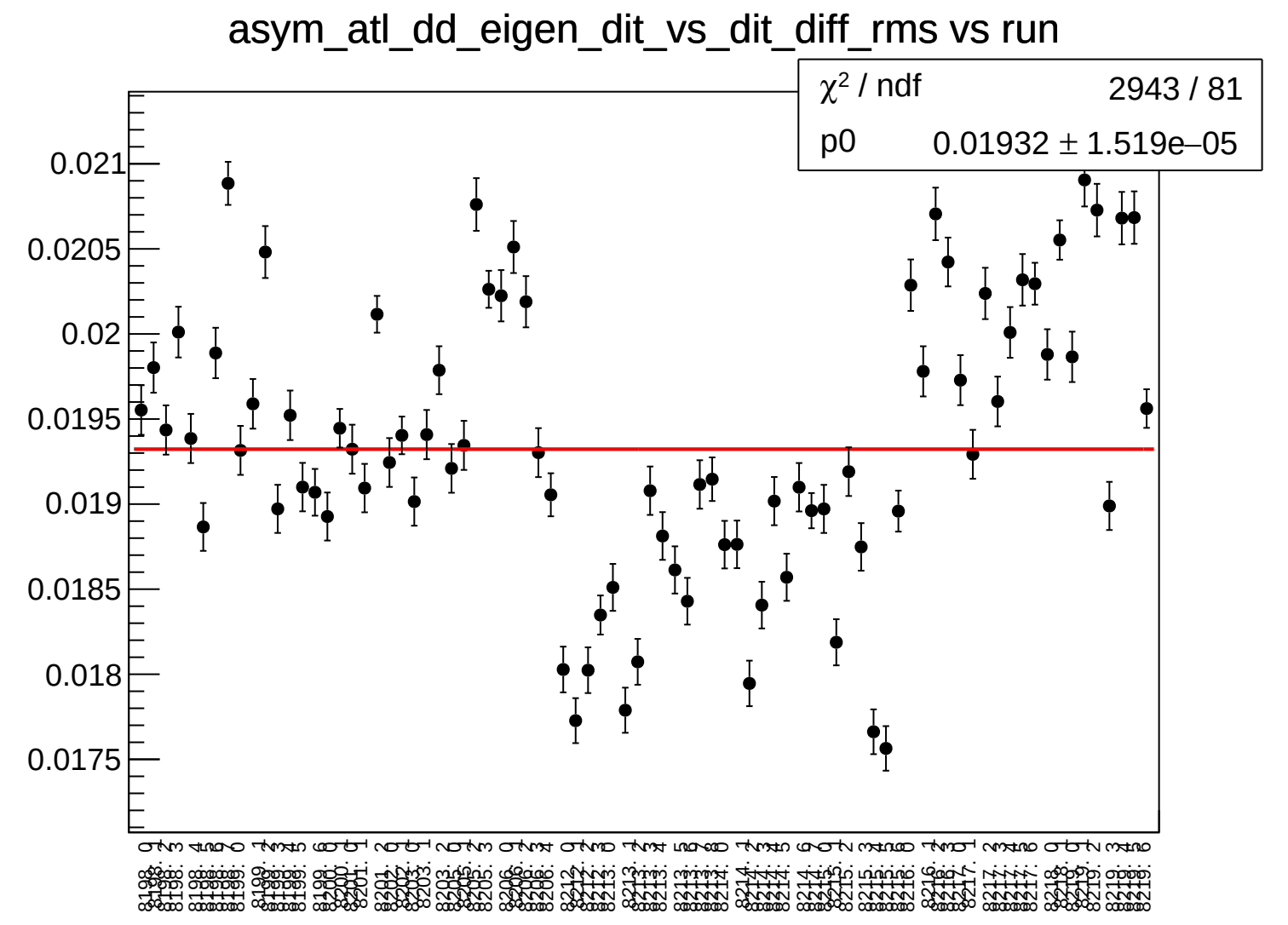

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.054e+04 / 81
p0 132.5 ± 0.1051
180
160
140
120
100

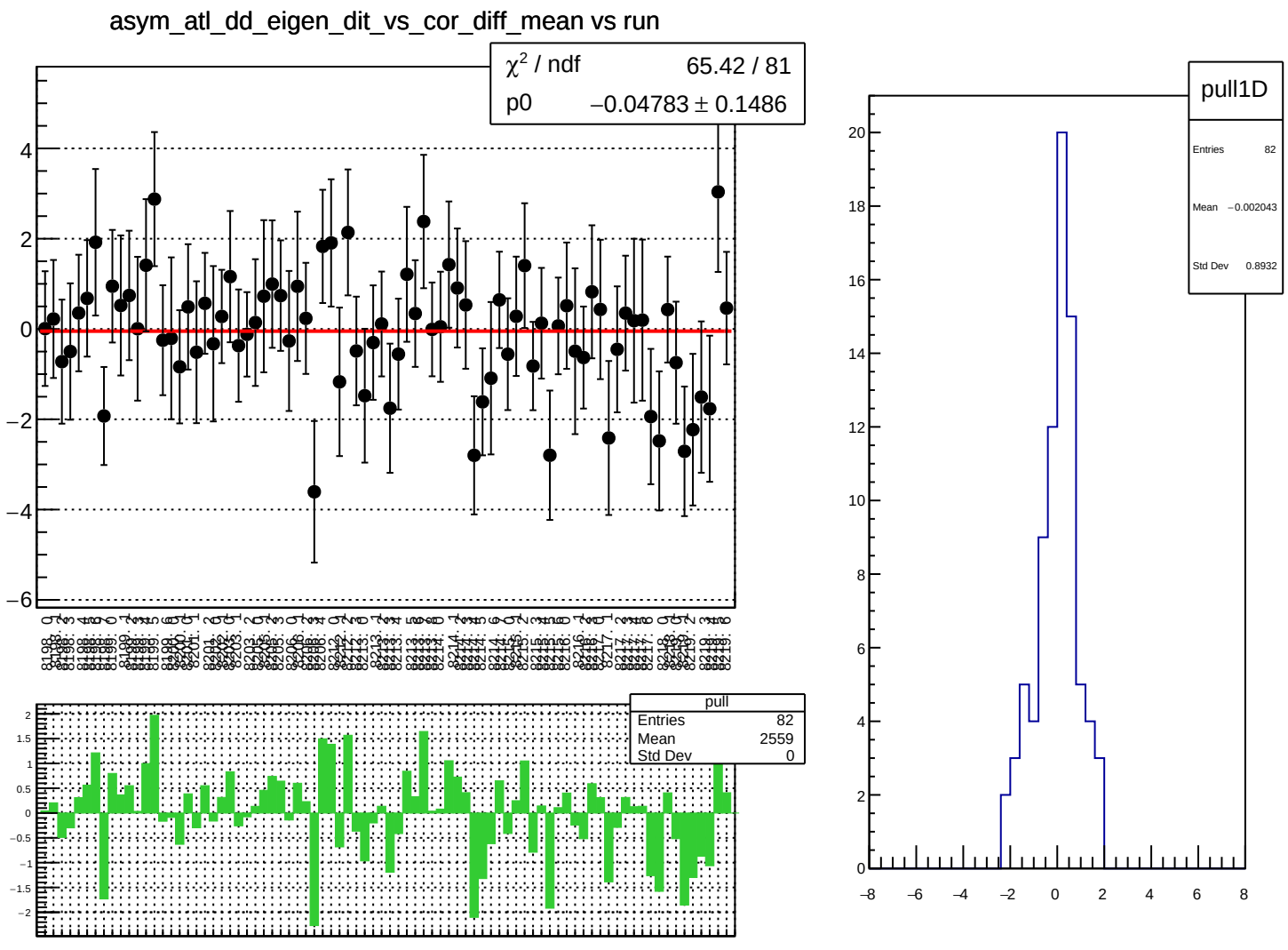

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.42 / 81
p0 −0.04784 ± 0.1486
pull
Entries 82
Mean 2568
Std Dev 0
pull1D
Entries 82
Mean −0.002036
Std Dev 0.8932

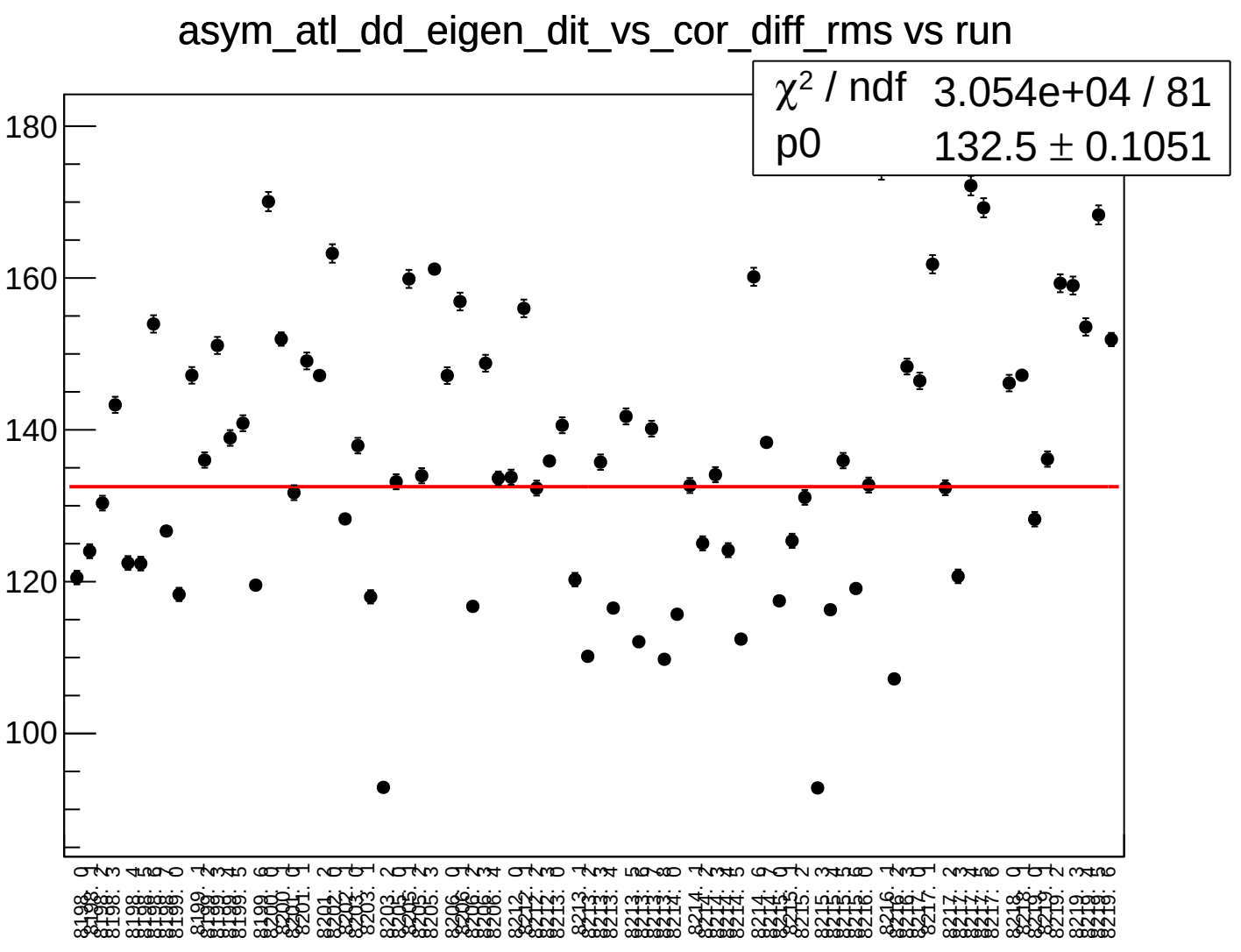

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.054e+04 / 81
p0 132.5 ± 0.1051
180
160
140
120
100

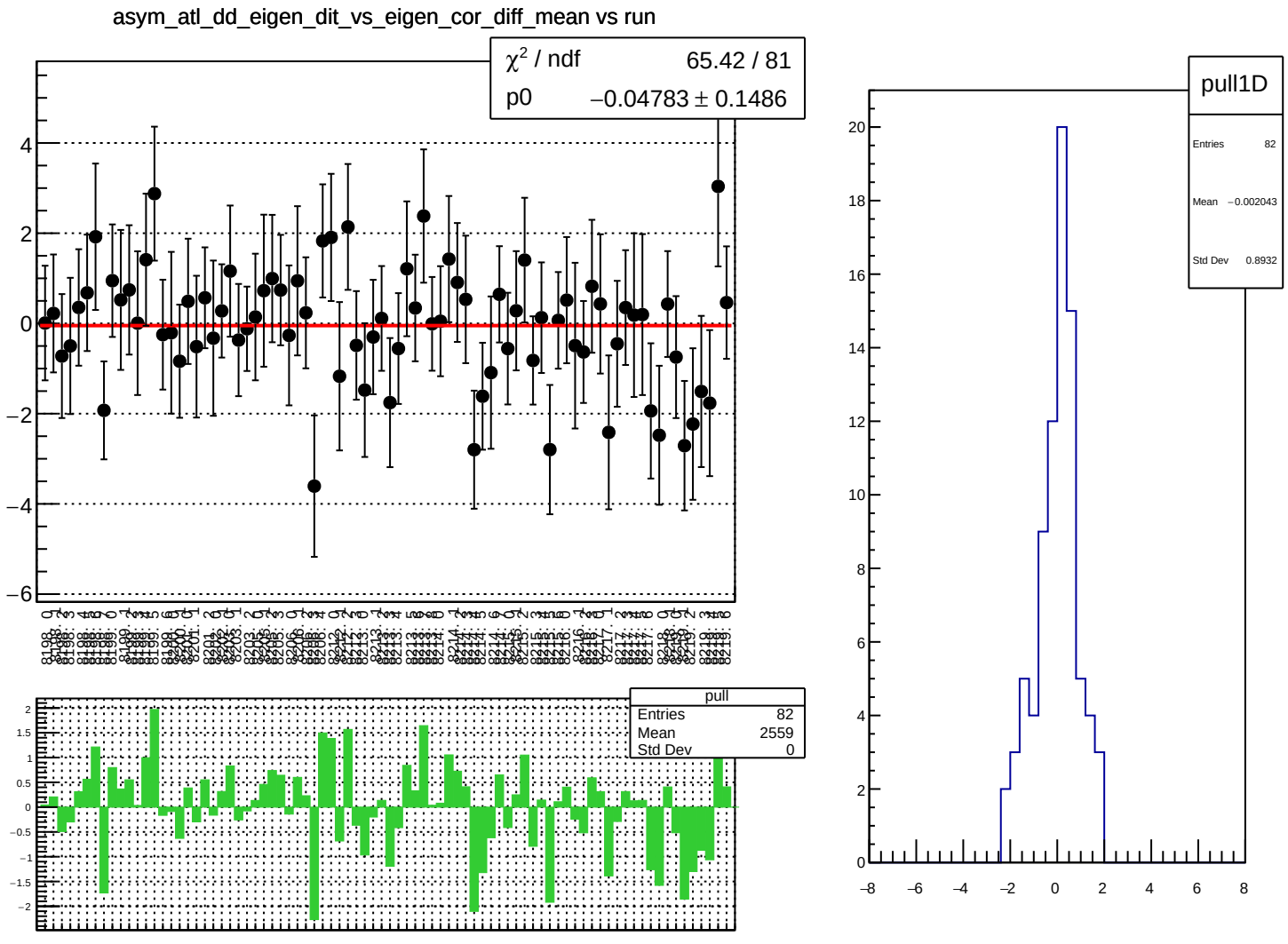

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 96.65 / 81
p0 −1.466e−05 ± 2.148e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 82
Mean −174.2
Std Dev 0
3
2
1
0
−1
−2
−3

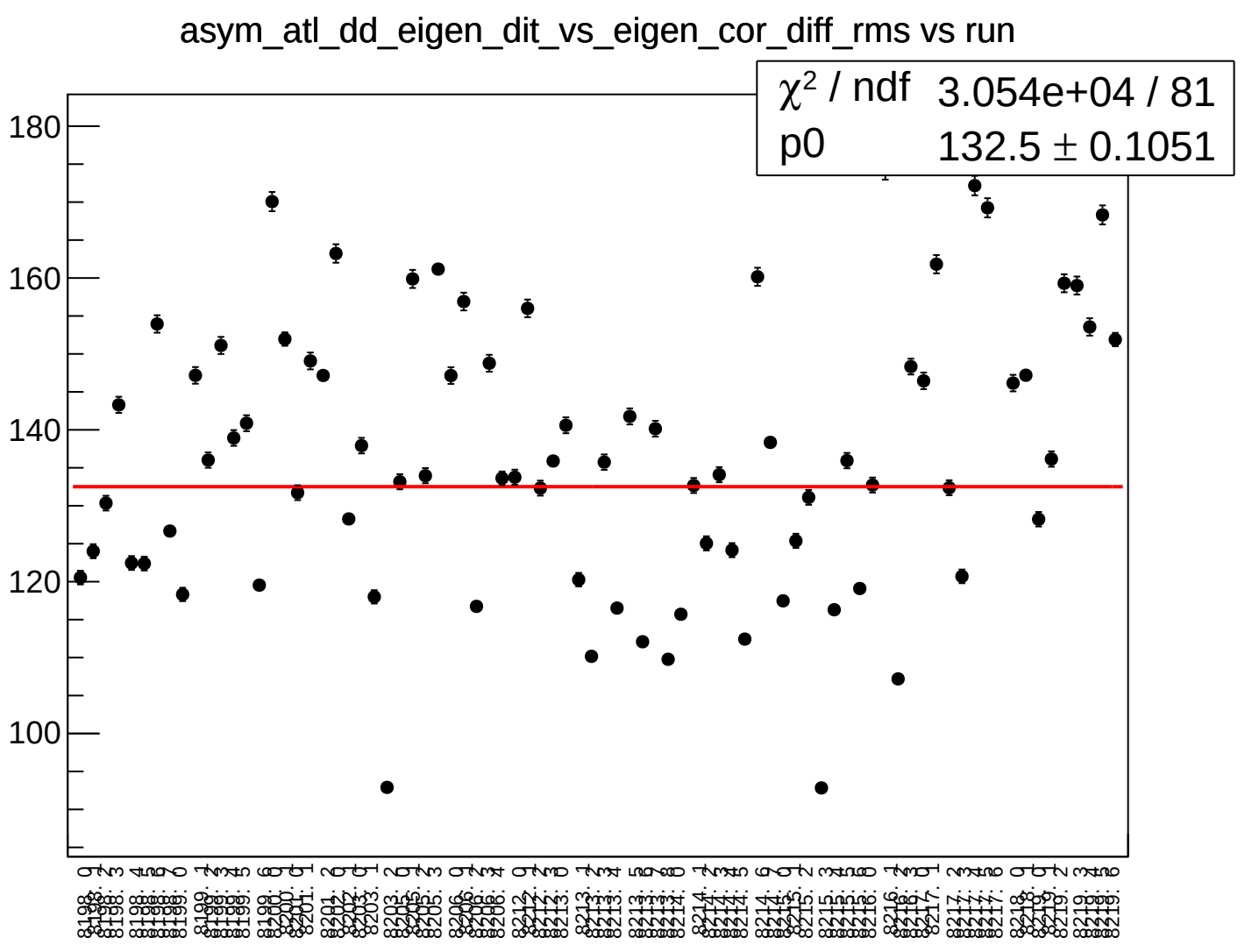

pull1D
Entries 82
Mean 0.009866
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

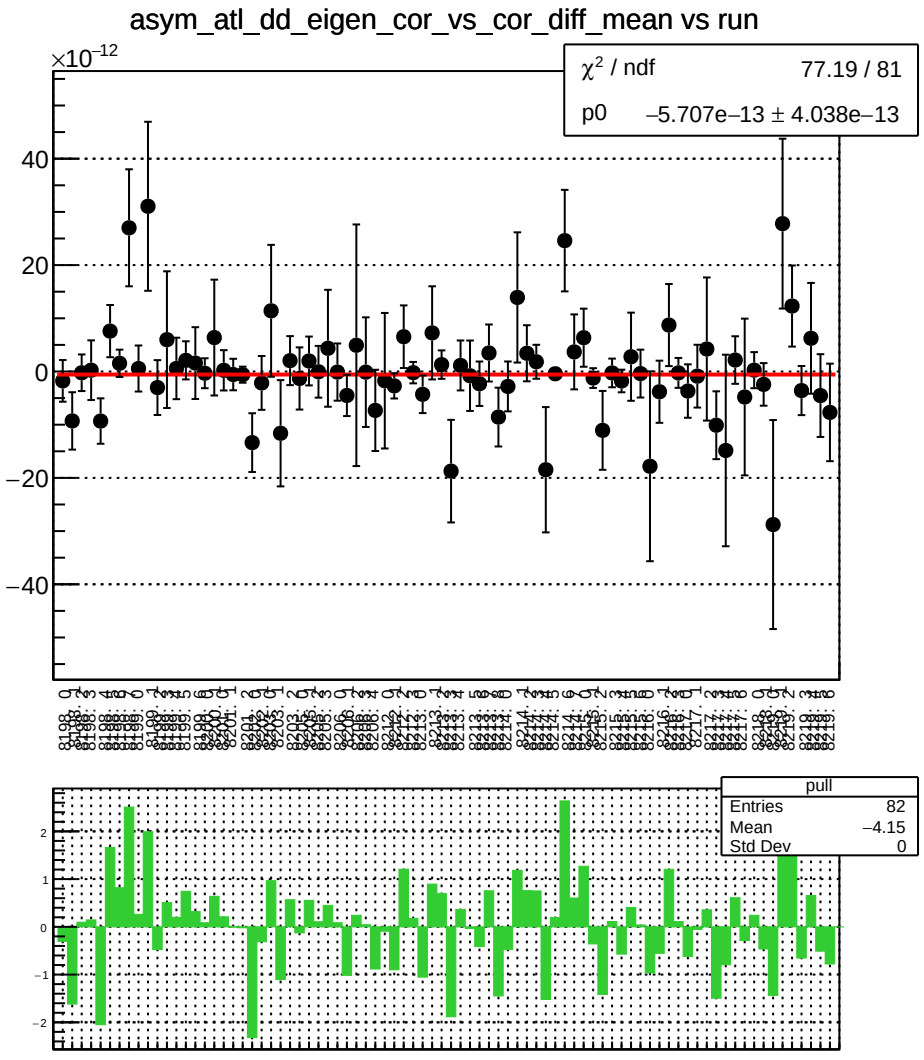

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2943 / 81
p0 0.01932 ± 1.519e−05
0.021
0.0205
0.02
0.0195
0.019
0.0185
0.018
0.0175

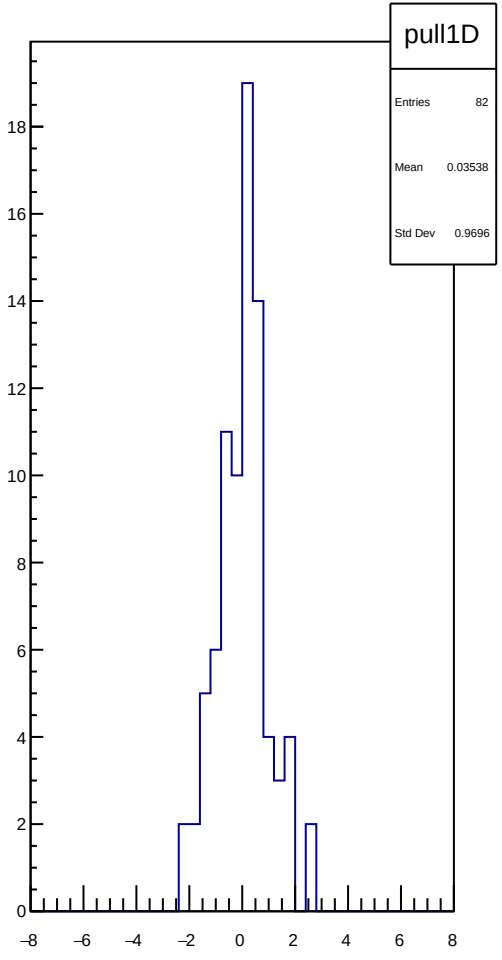

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.42 / 81
p0 −0.04783 ± 0.1486
pull
Entries 82
Mean 2559
Std Dev 0
pull1D
Entries 82
Mean −0.002043
Std Dev 0.8932

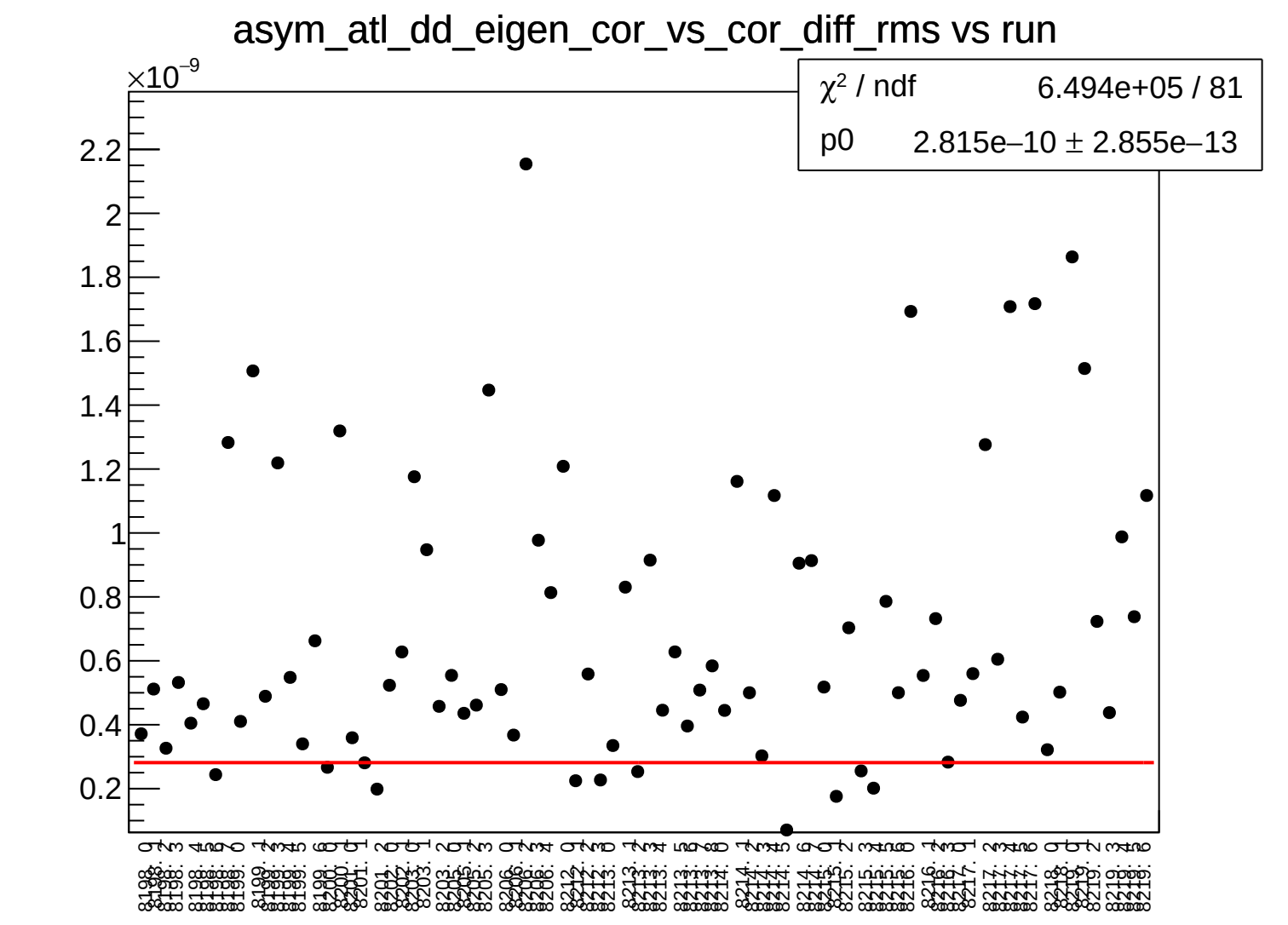

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.054e+04 / 81
p0 132.5 ± 0.1051
180
160
140
120
100

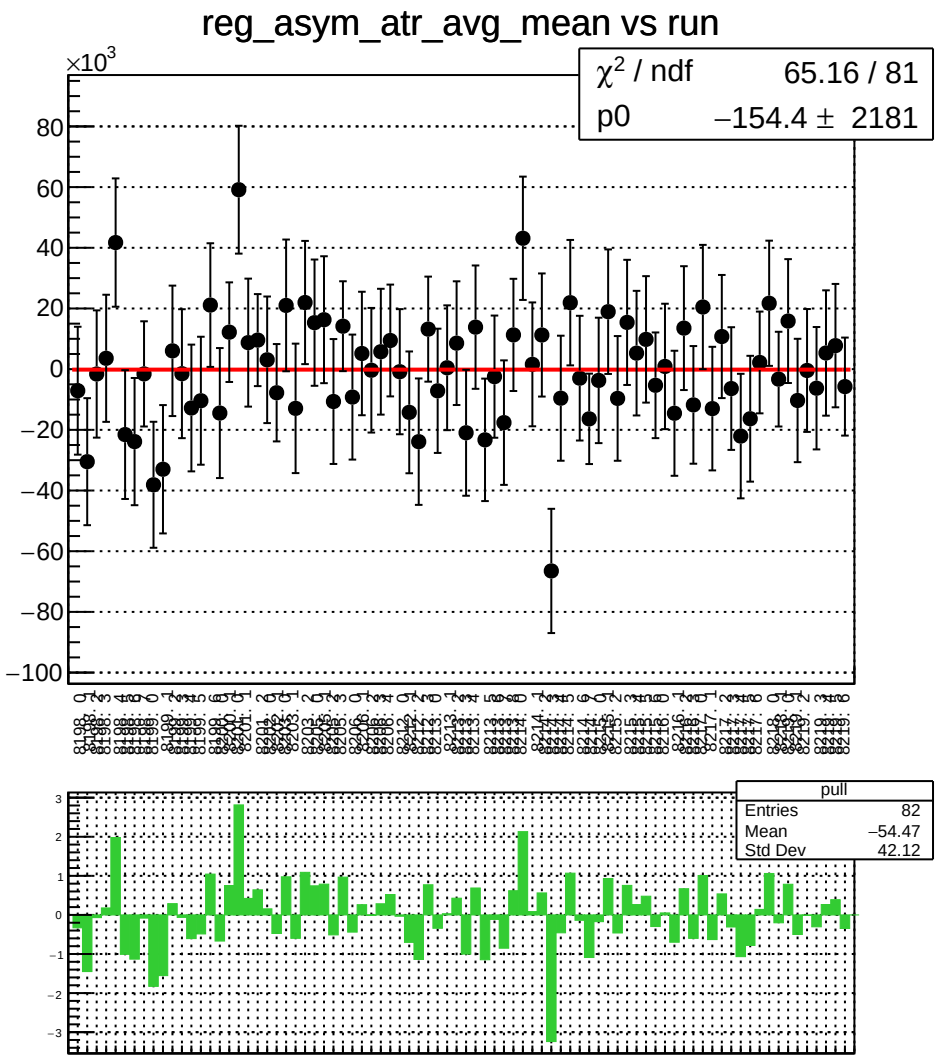

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.42 / 81
p0 −0.04783 ± 0.1486
pull
Entries 82
Mean 2559
Std Dev 0
pull1D
Entries 82
Mean −0.002043
Std Dev 0.8932

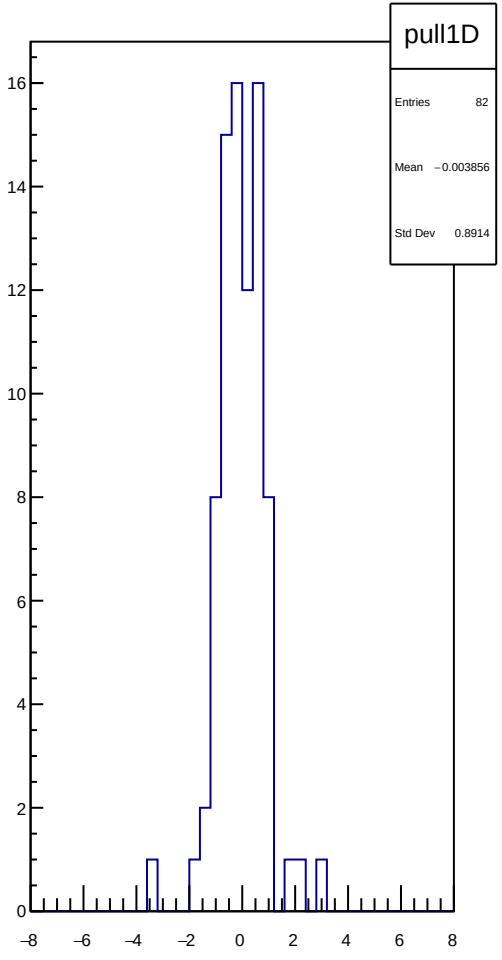

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.054e+04 / 81
p0 132.5 ± 0.1051
180
160
140
120
100

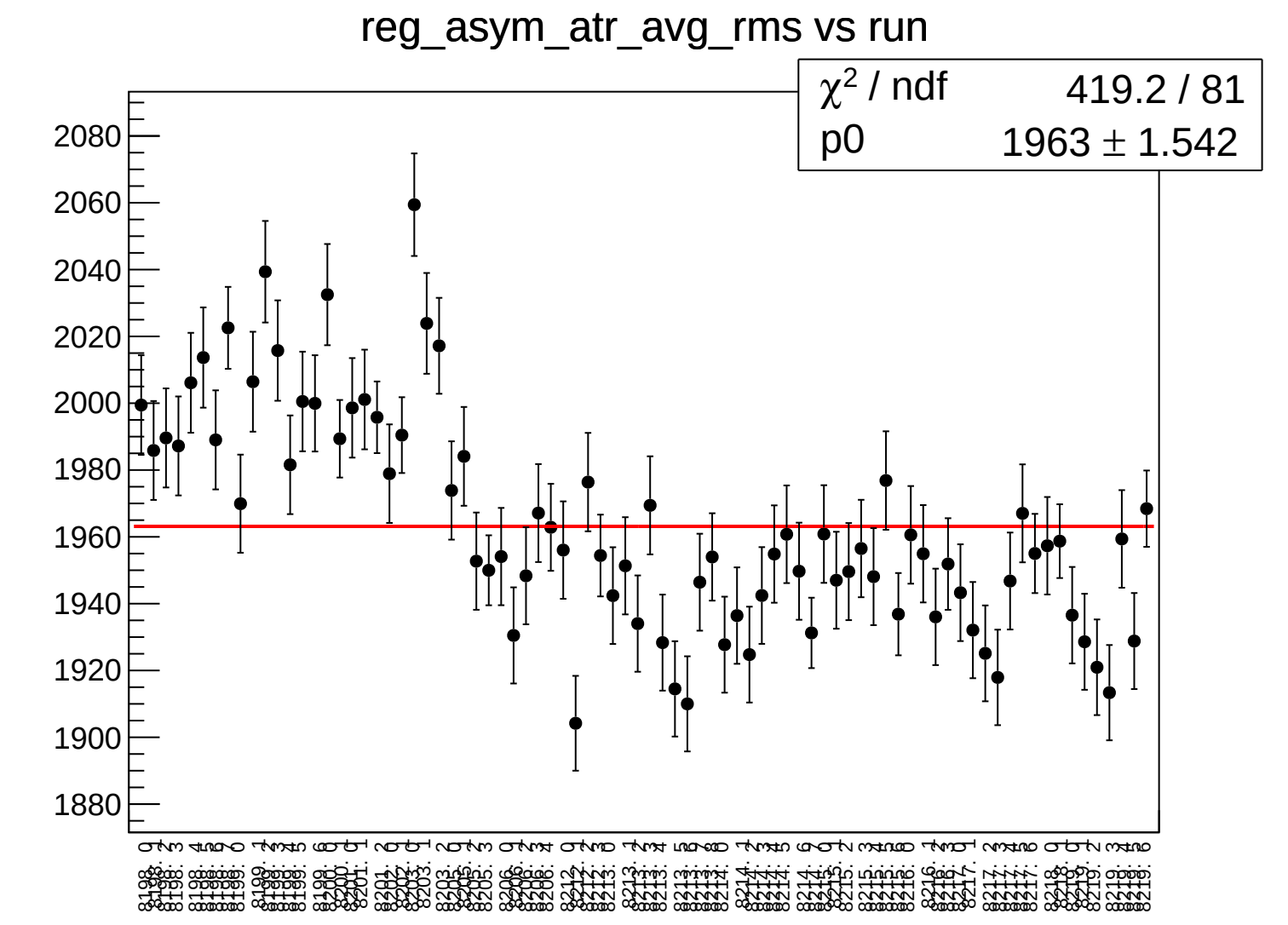

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 77.19 / 81
p0 −5.707e−13 ± 4.038e−13
40
20
0
−20
−40
pull
Entries 82
Mean −4.15
Std Dev 0
2
1
0
−1
−2

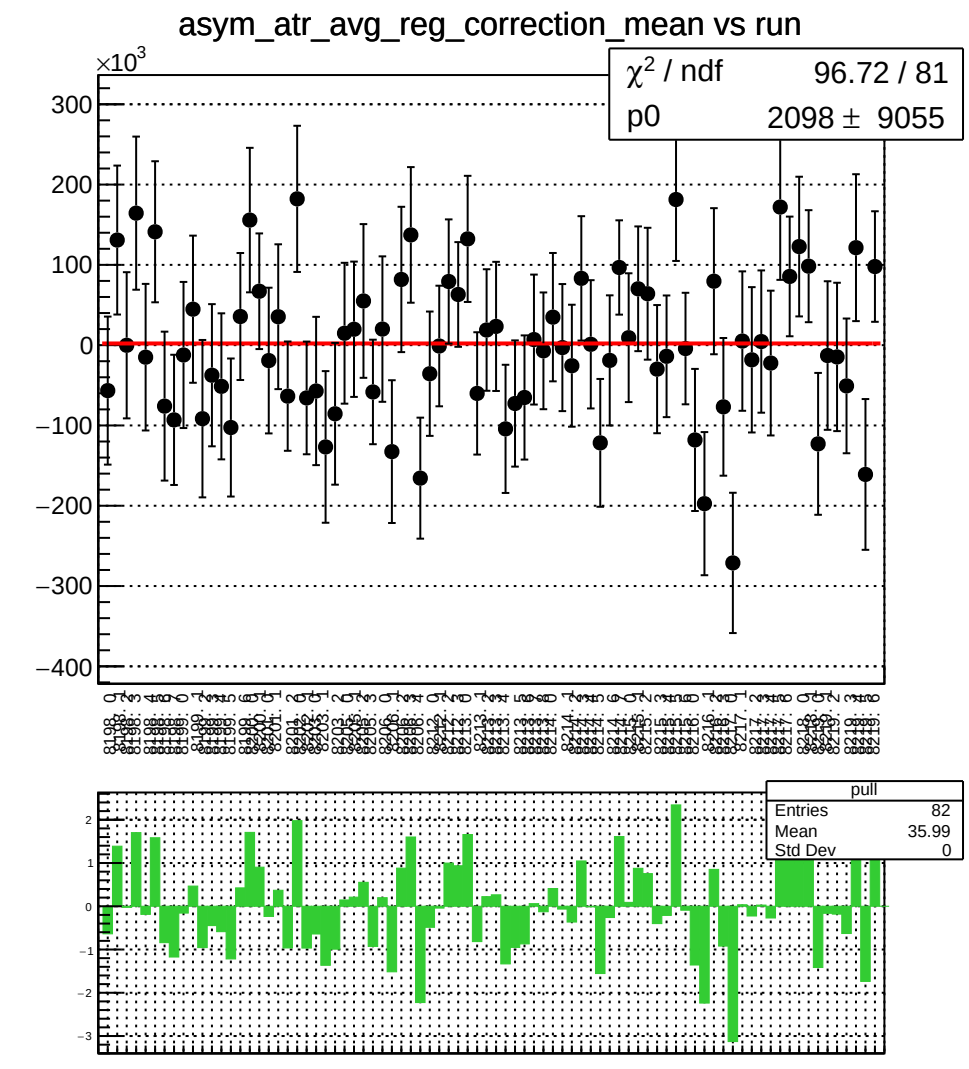

pull1D
Entries 82
Mean 0.03538
Std Dev 0.9696
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

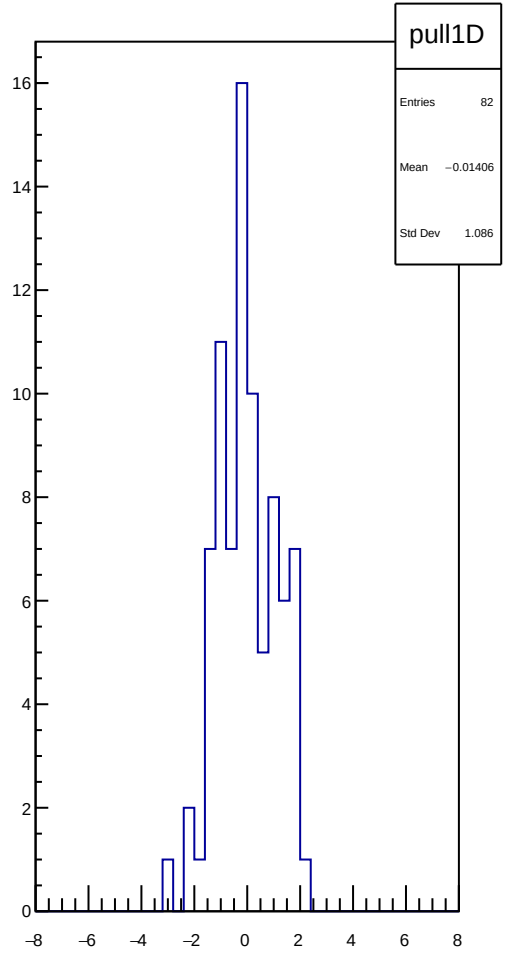

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.494e+05 / 81
p0 2.815e−10 ± 2.855e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

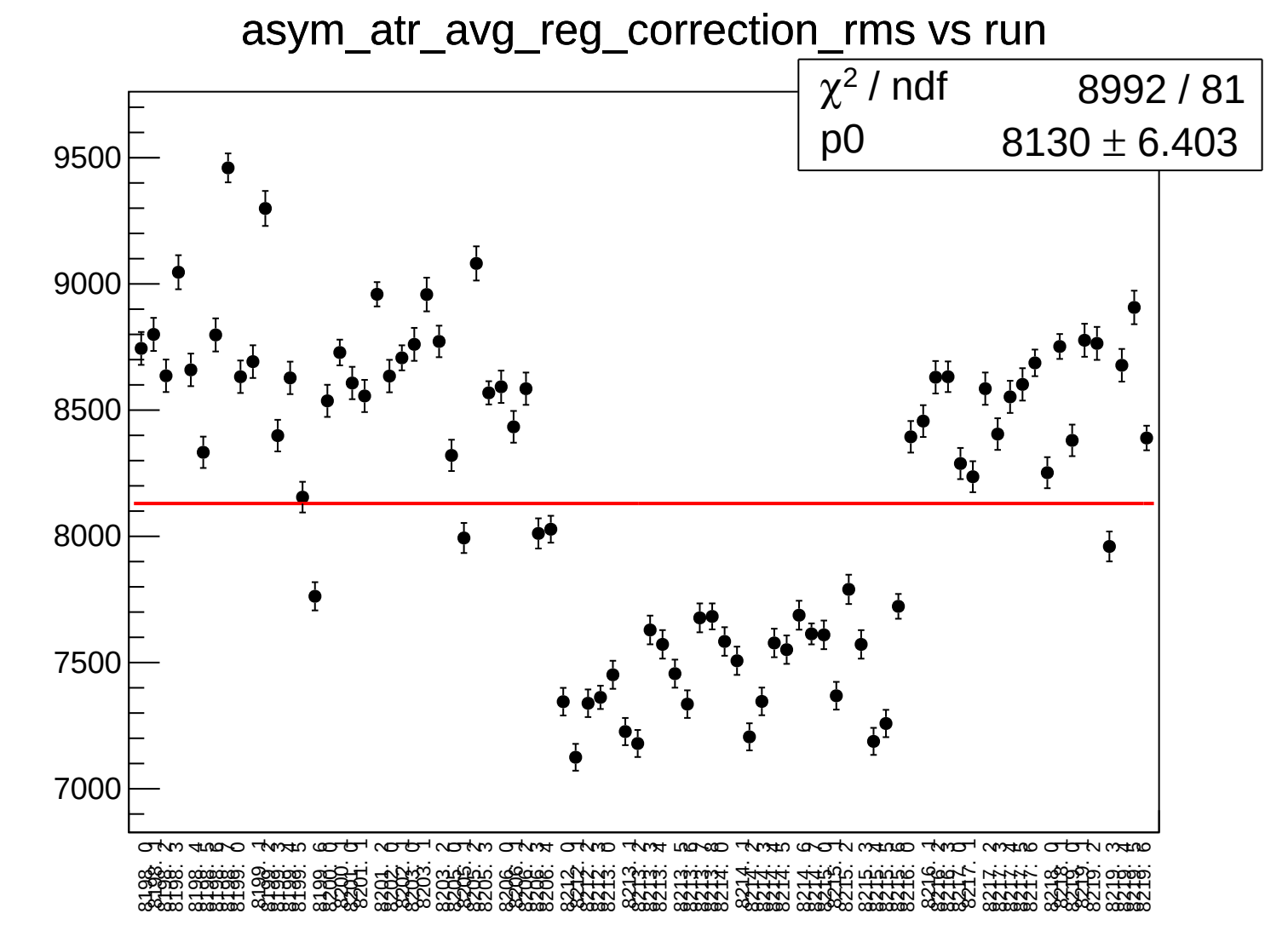

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 65.16 / 81
p0 −154.4 ± 2181
pull
Entries 82
Mean −54.47
Std Dev 42.12

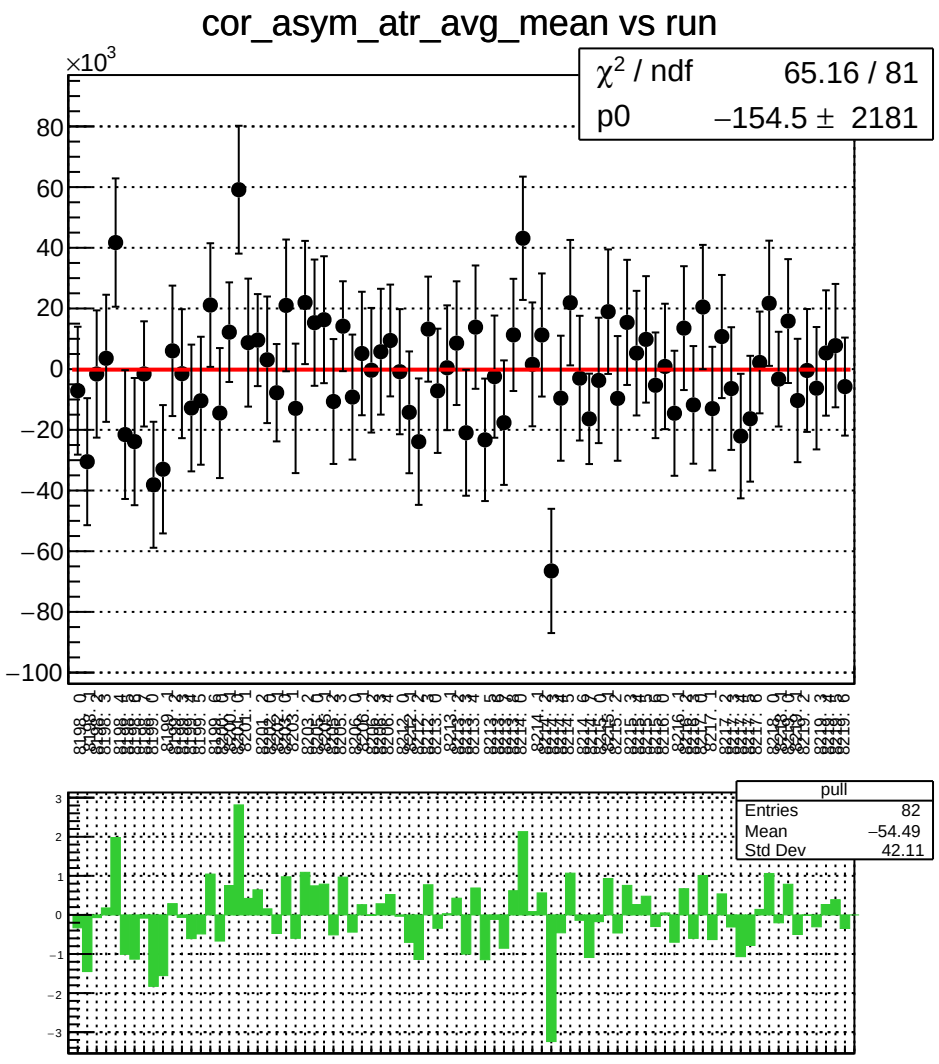

pull1D
Entries 82
Mean −0.003856
Std Dev 0.8914

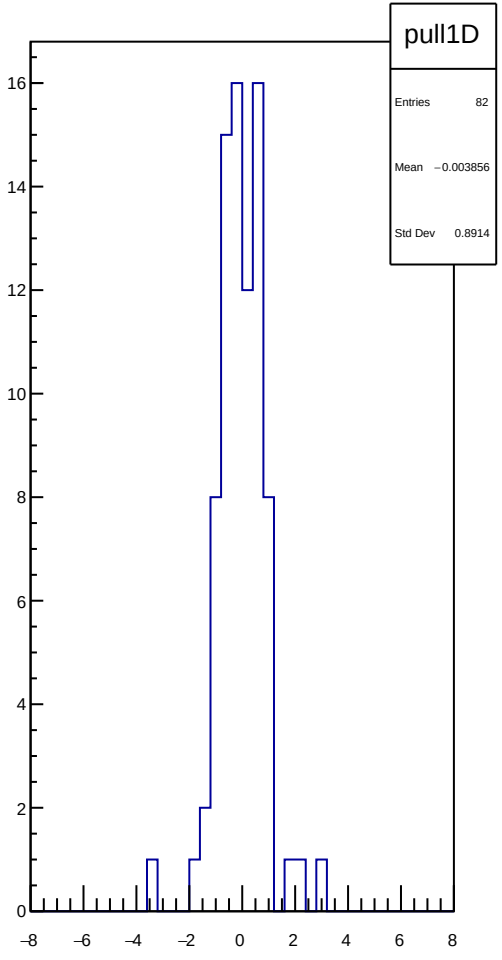

reg_asym_atr_avg_rms vs run
$\chi^2$ / ndf 419.2 / 81
p0 1963 ± 1.542
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

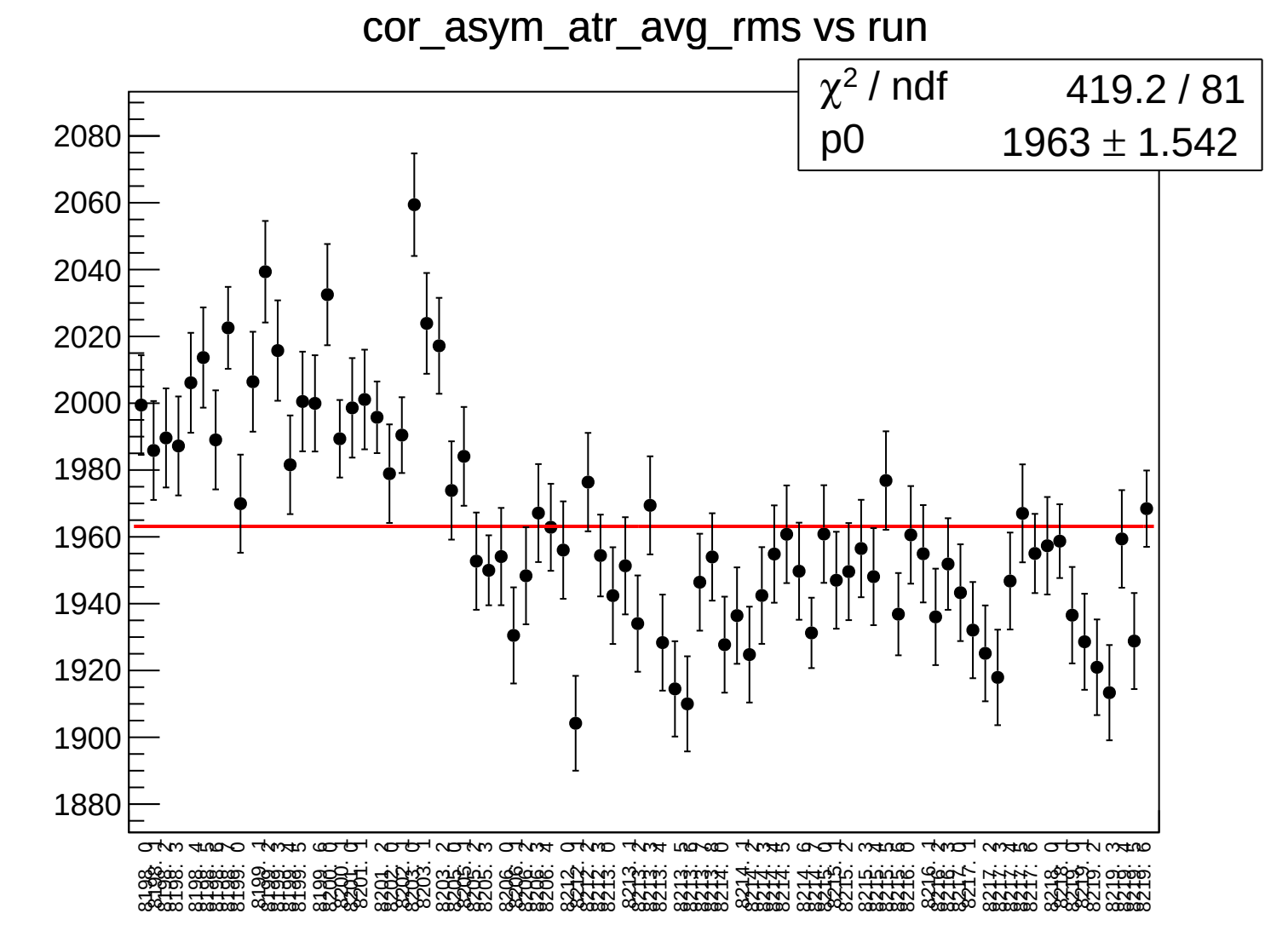

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.72 / 81
p0 2098 ± 9055
pull
Entries 82
Mean 35.99
Std Dev 0

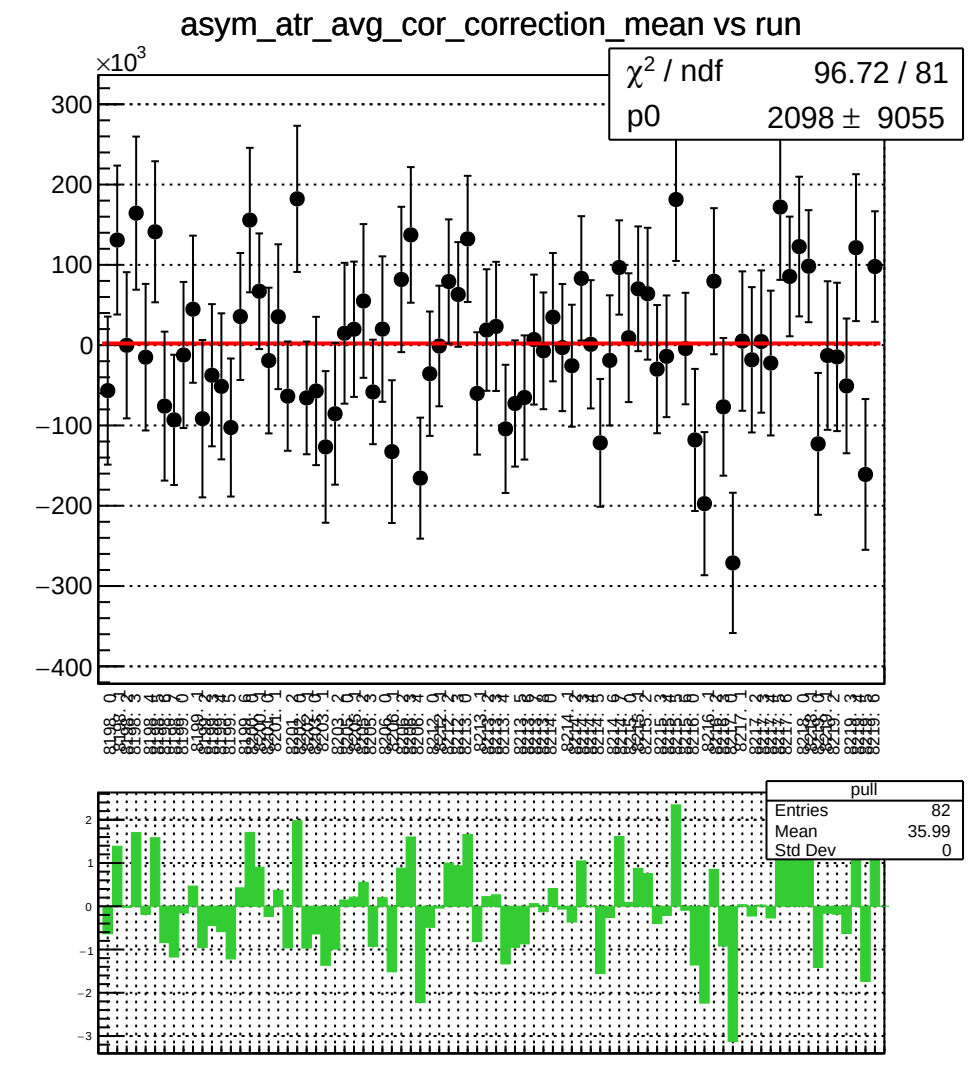

pull1D
Entries 82
Mean −0.01406
Std Dev 1.086

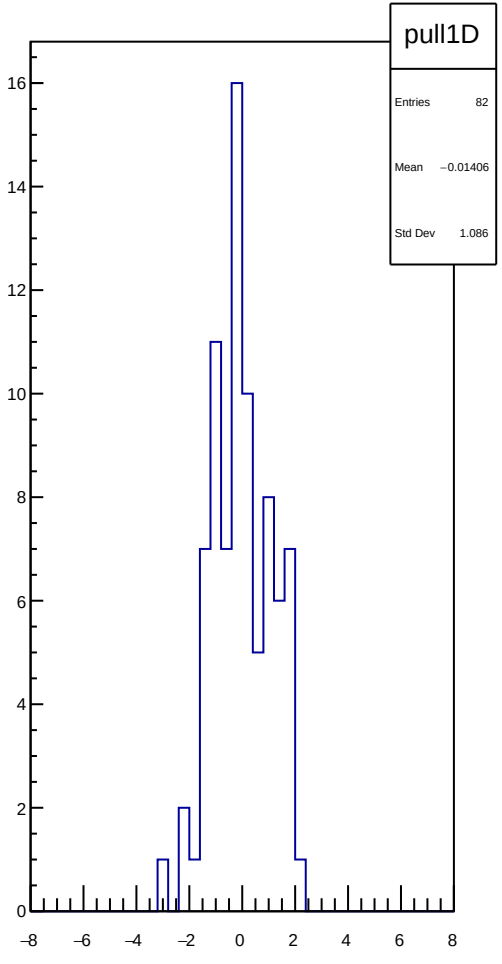

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 8992 / 81
p0 8130 ± 6.403
9500
9000
8500
8000
7500
7000

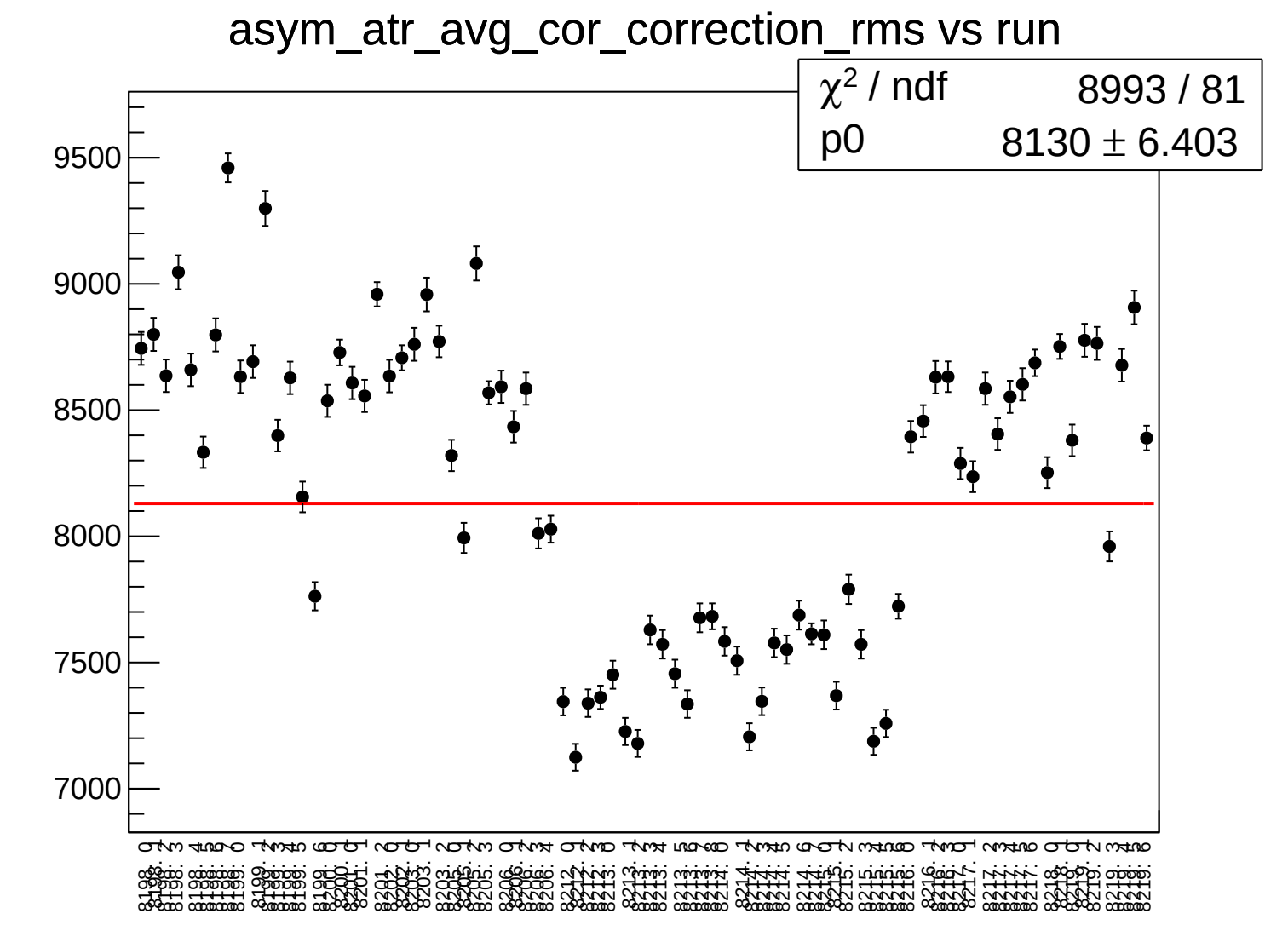

cor_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 65.16 / 81
p0 −154.5 ± 2181
pull
Entries 82
Mean −54.49
Std Dev 42.11

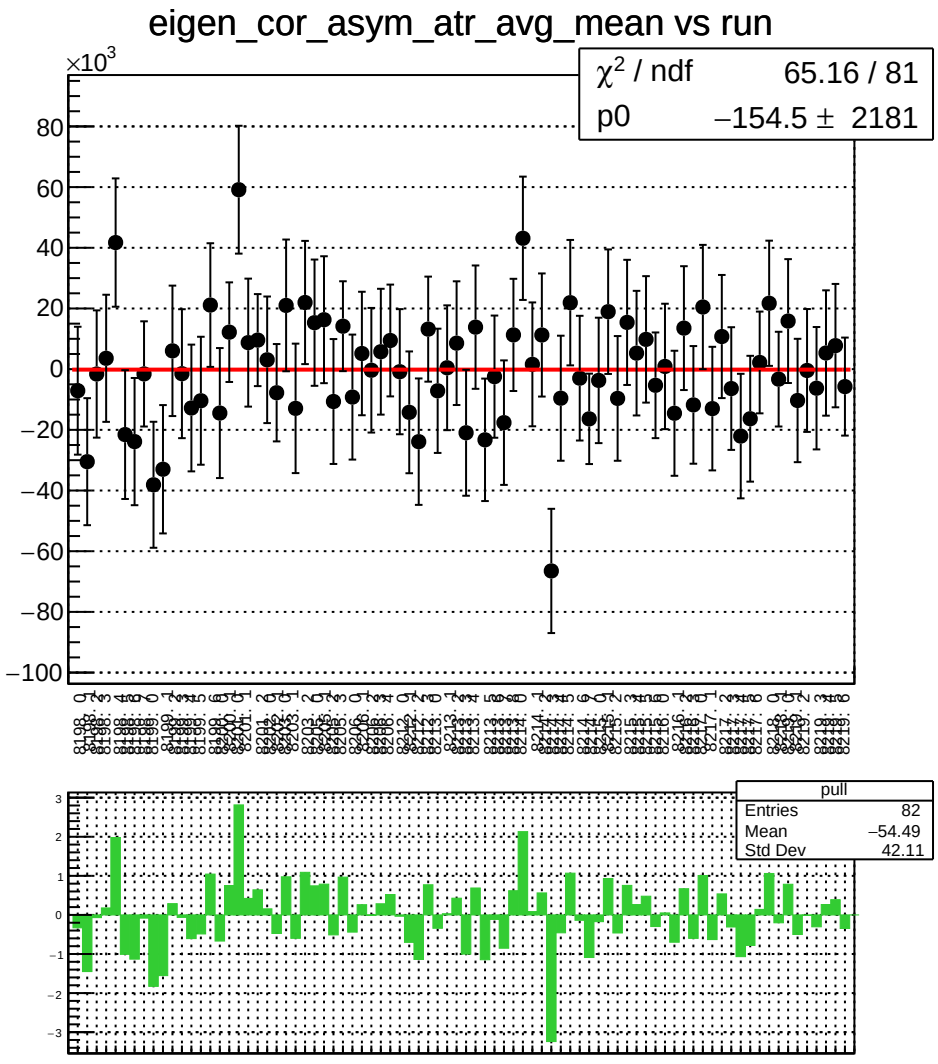

pull1D
Entries 82
Mean −0.003856
Std Dev 0.8914

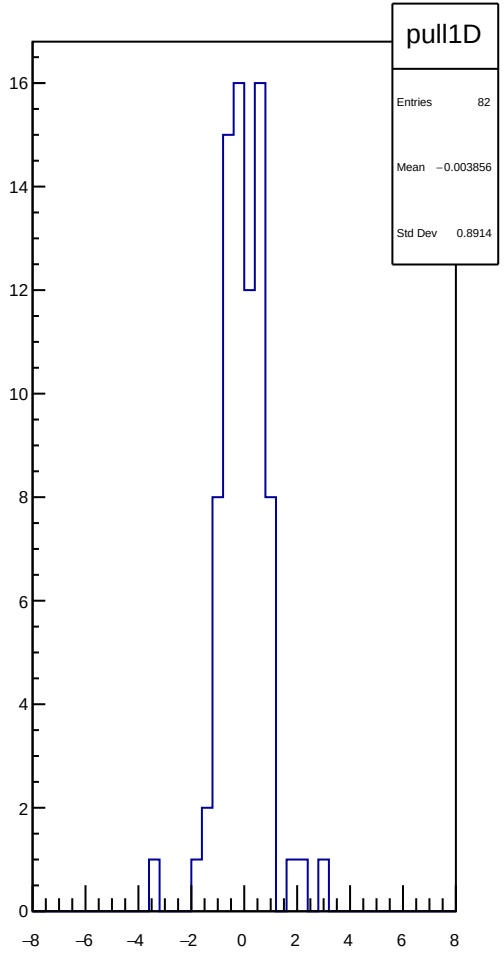

cor_asym_atr_avg_rms vs run
$\chi^2$ / ndf 419.2 / 81
p0 1963 ± 1.542
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

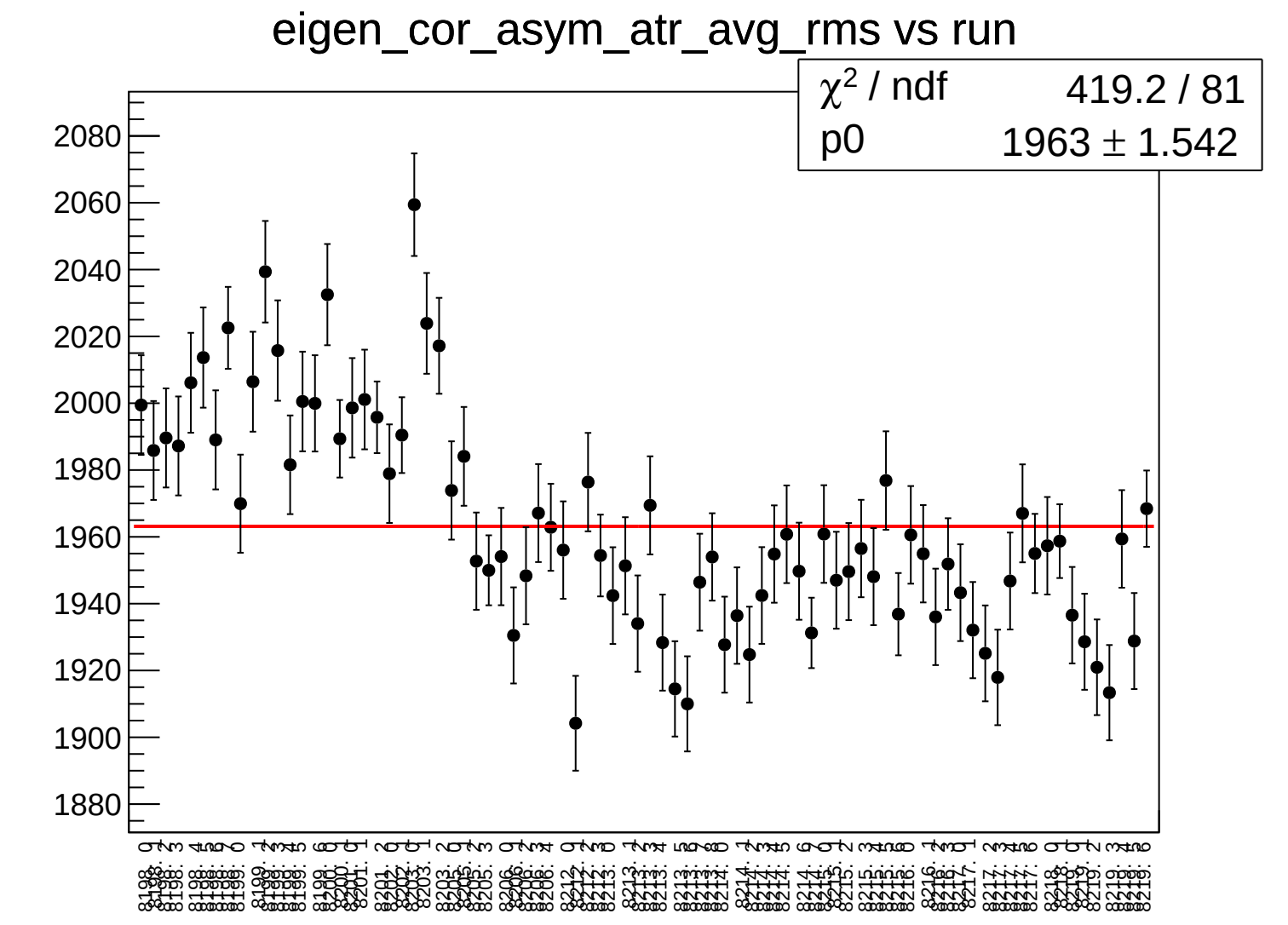

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.72 / 81
p0 2098 ± 9055
pull
Entries 82
Mean 35.99
Std Dev 0

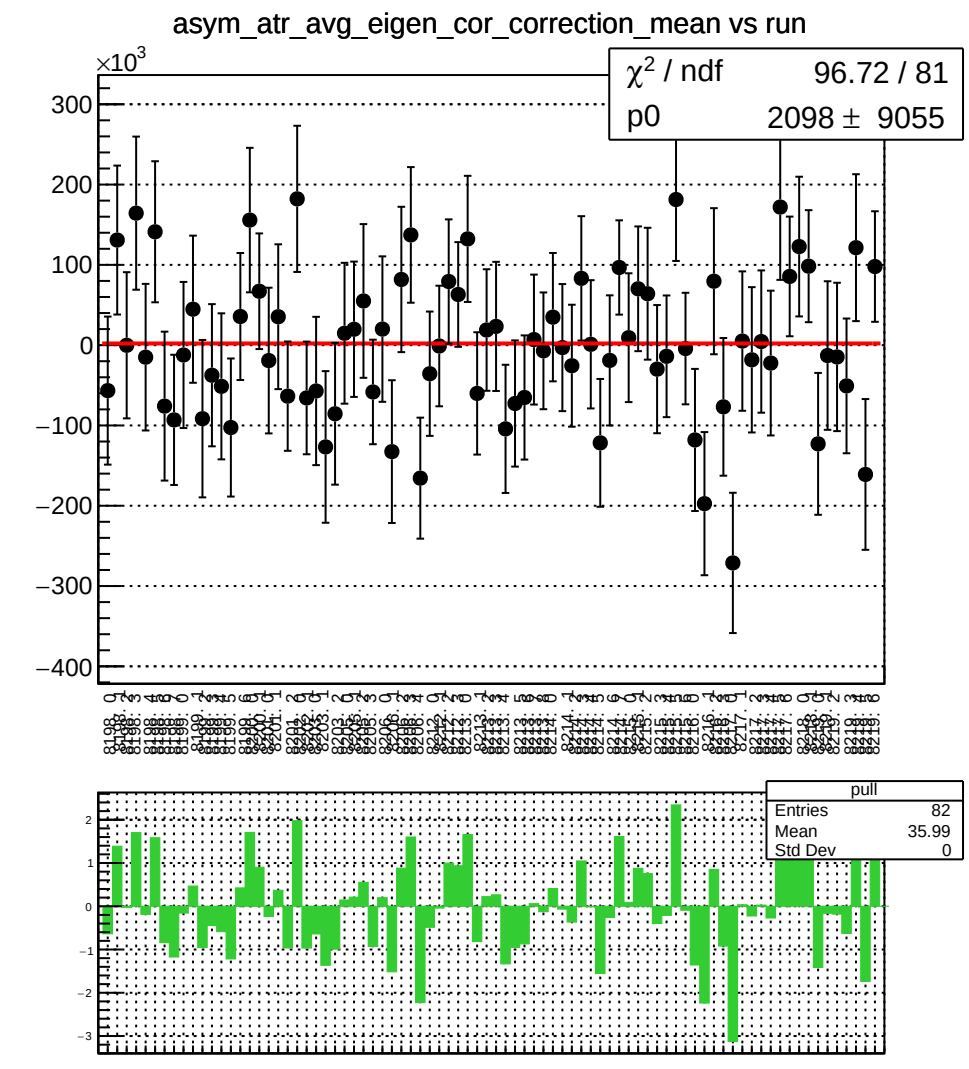

pull1D
Entries 82
Mean −0.01406
Std Dev 1.086

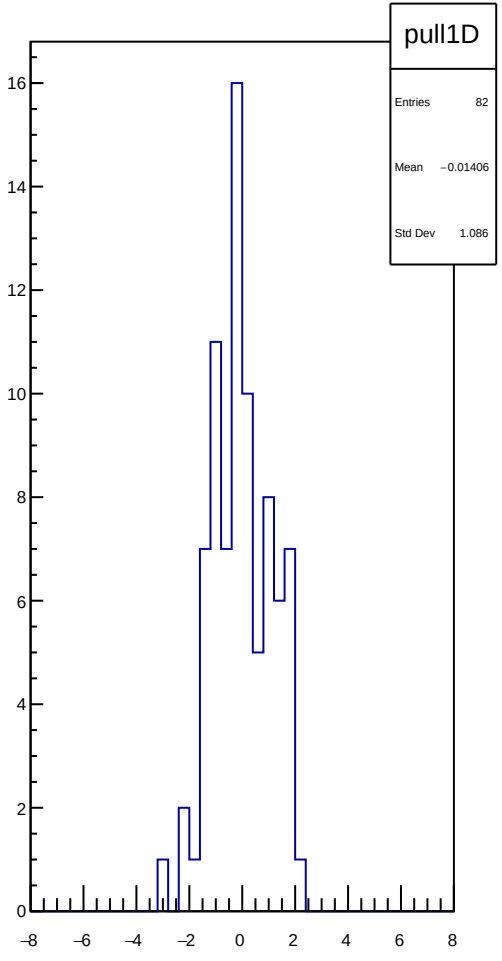

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 8993 / 81
p0 8130 ± 6.403
9500
9000
8500
8000
7500
7000

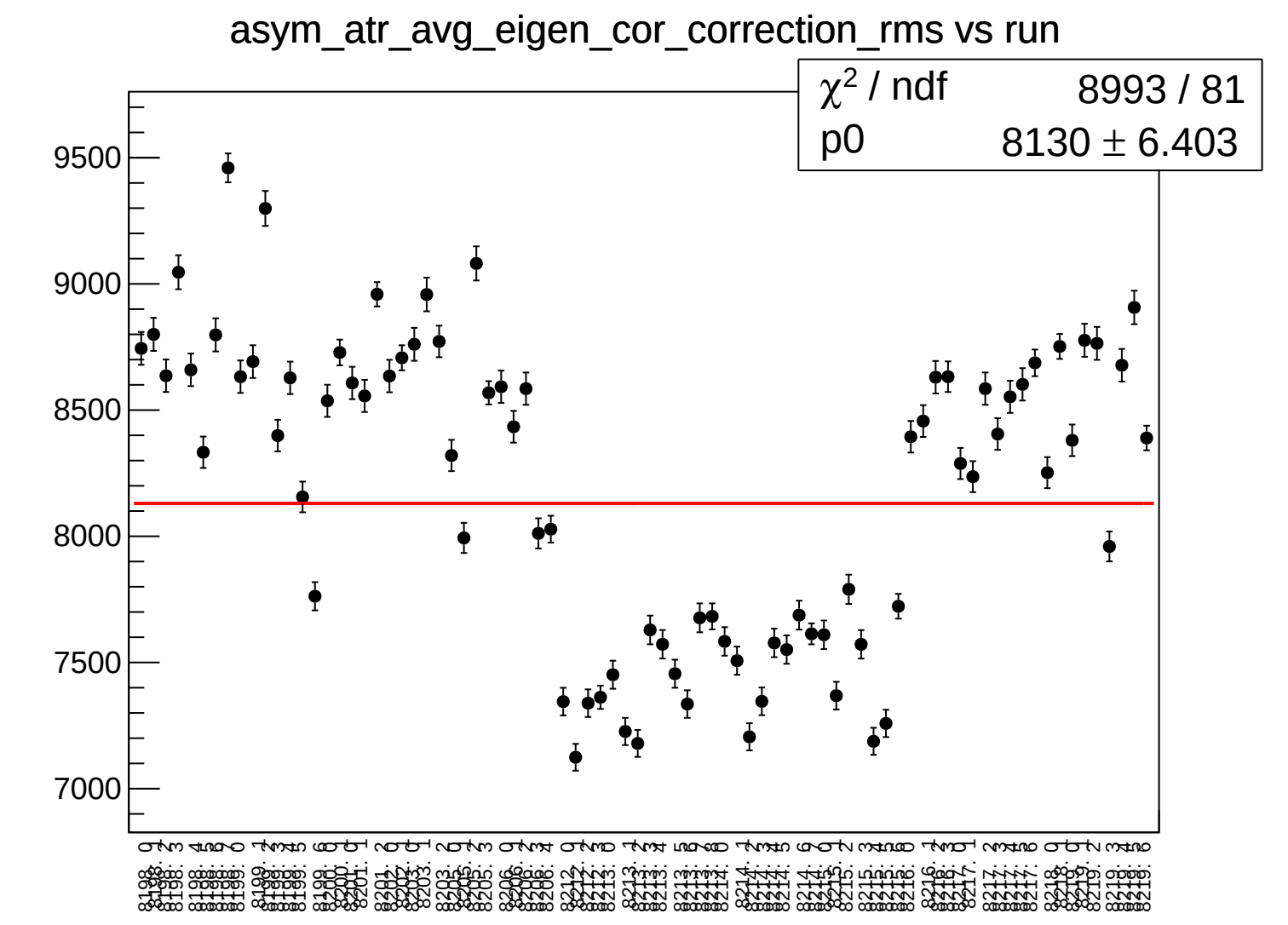

eigen_cor_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 65.16 / 81
p0 −154.5 ± 2181
pull
Entries 82
Mean −54.49
Std Dev 42.11

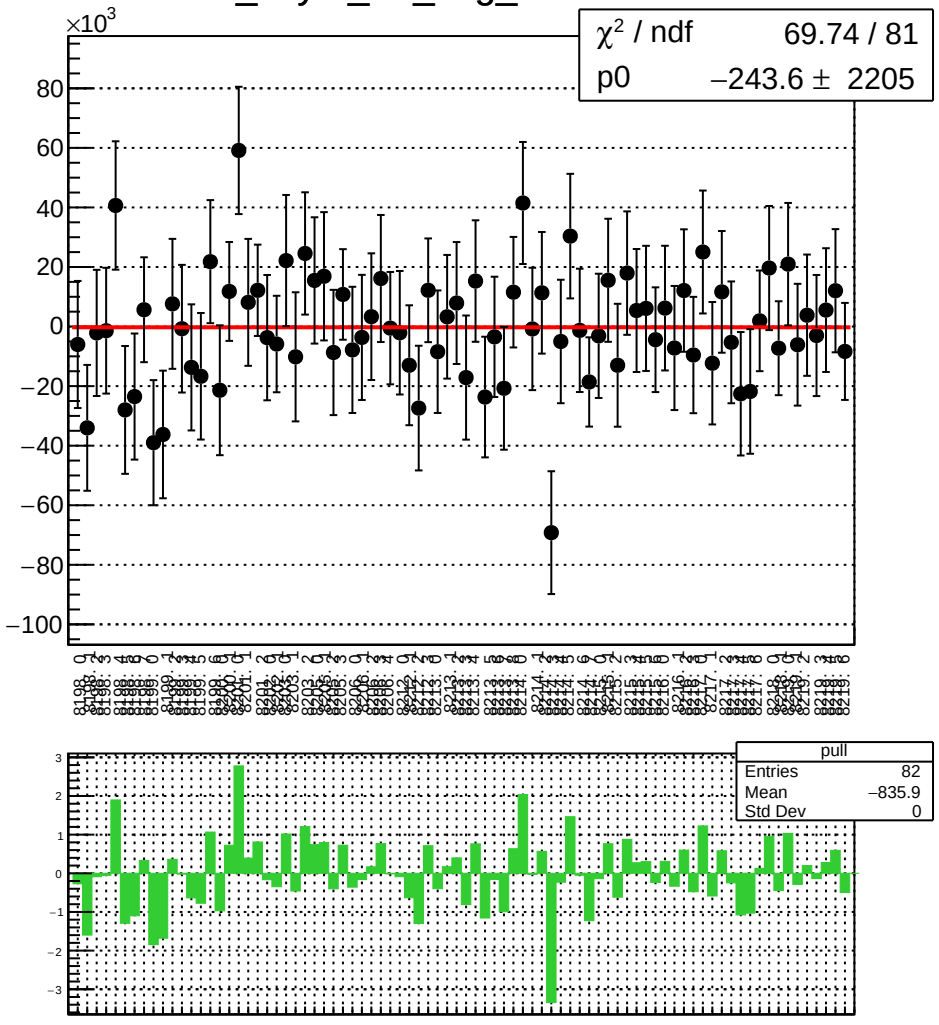

pull1D
Entries 82
Mean −0.003856
Std Dev 0.8914

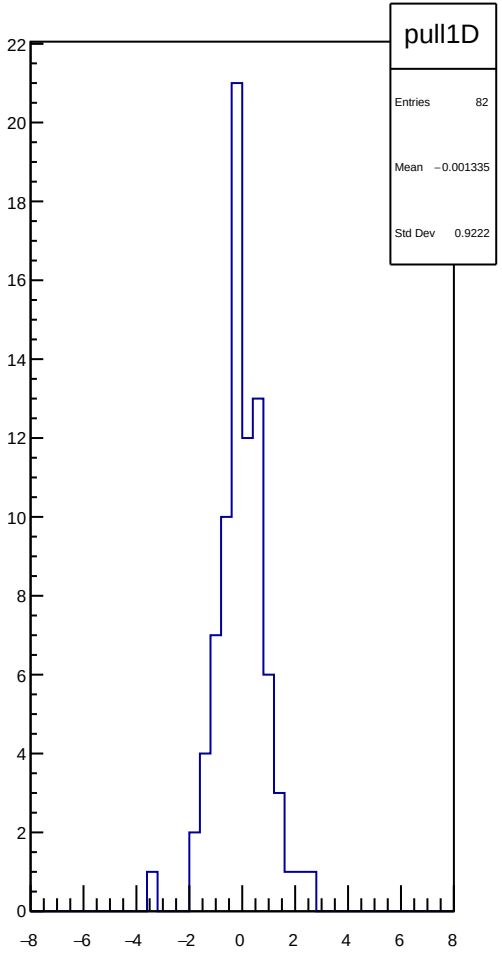

eigen_cor_asym_atr_avg_rms vs run
$\chi^2$ / ndf 419.2 / 81
p0 1963 ± 1.542
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

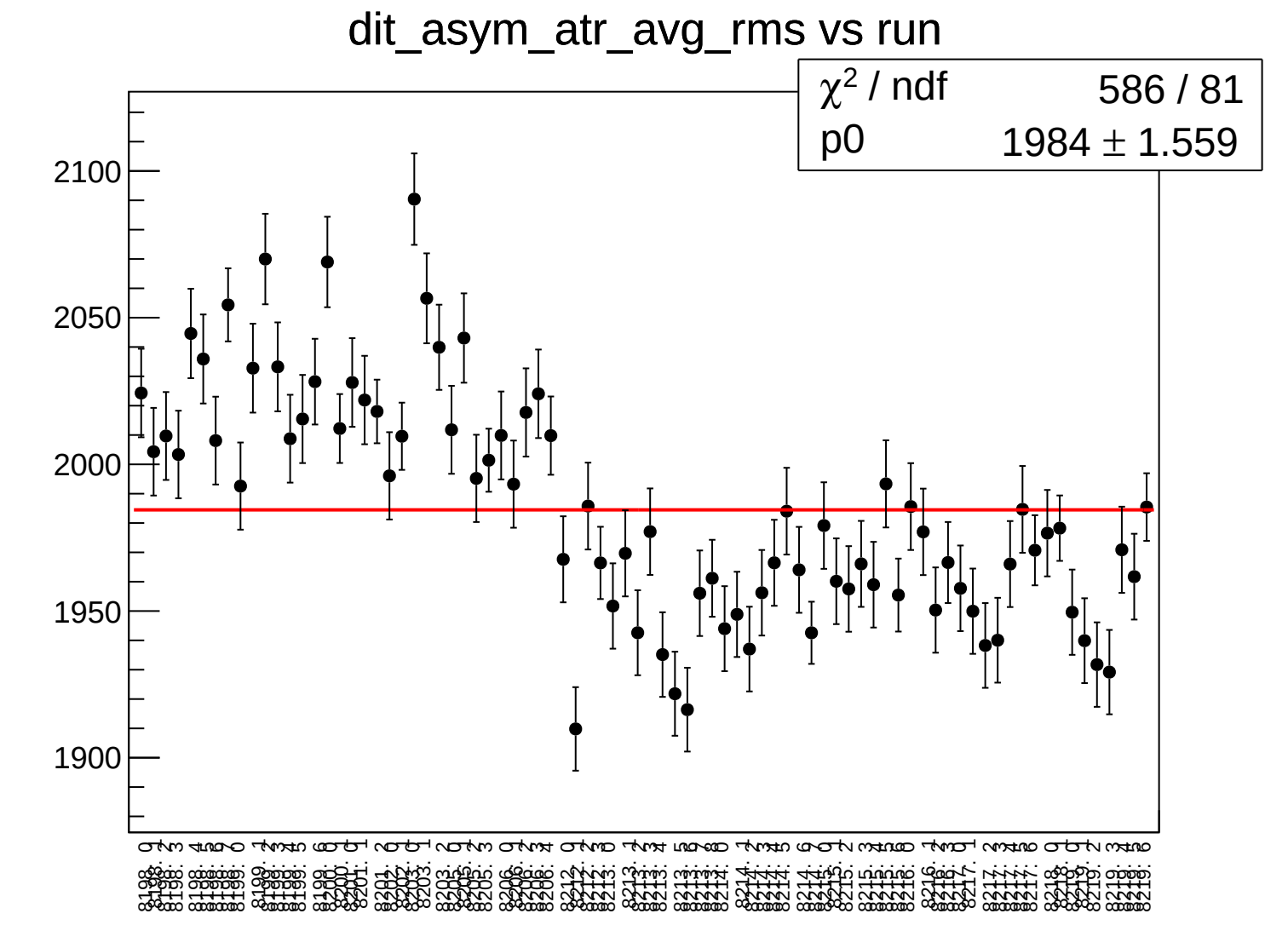

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.72 / 81
p0 2098 ± 9055
pull
Entries 82
Mean 35.99
Std Dev 0

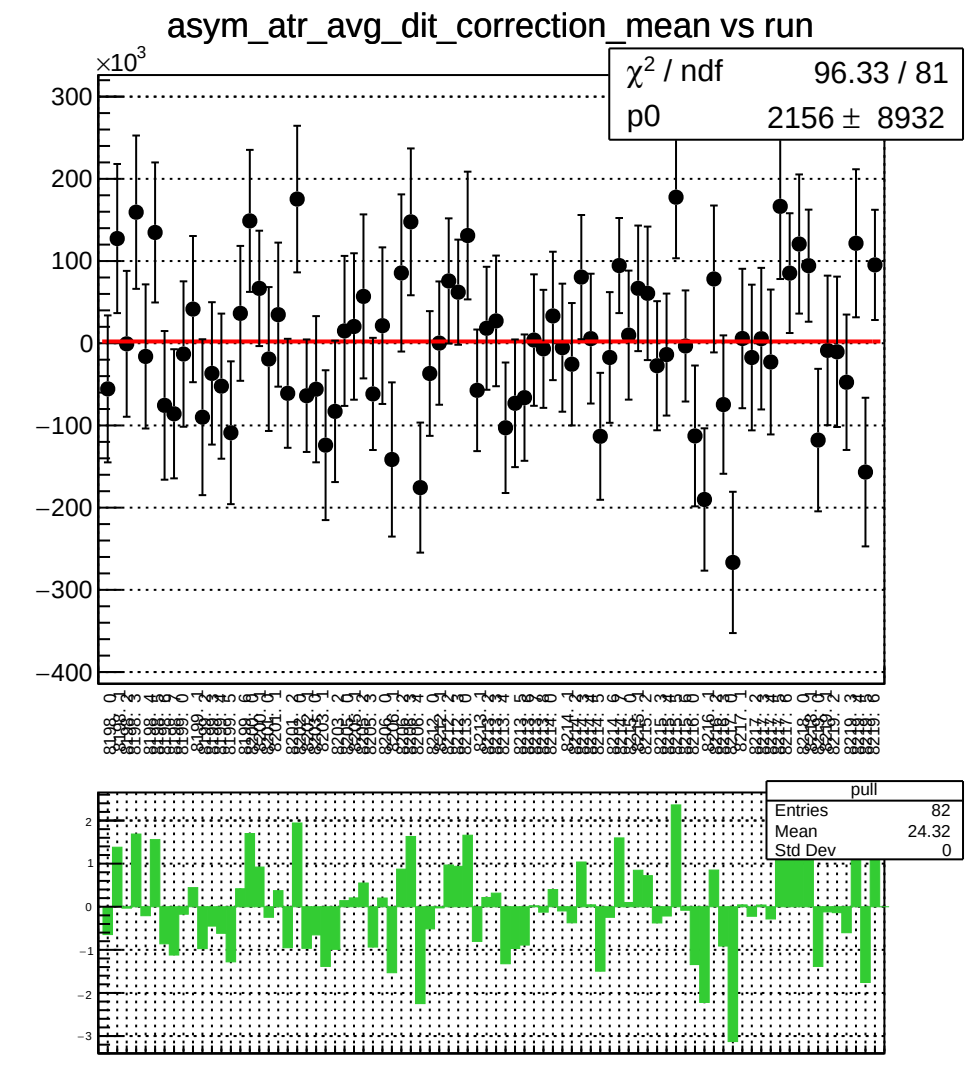

pull1D
Entries 82
Mean −0.01406
Std Dev 1.086

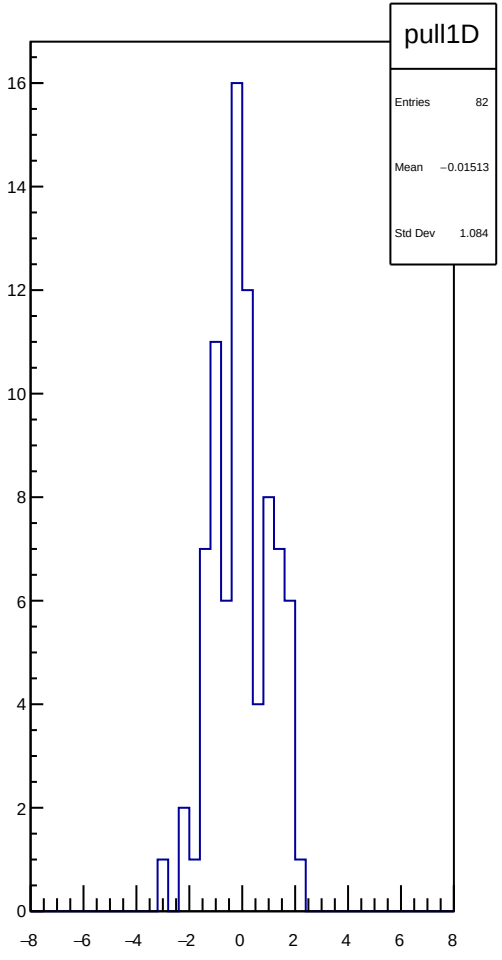

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 8993 / 81
p0 8130 ± 6.403
9500
9000
8500
8000
7500
7000

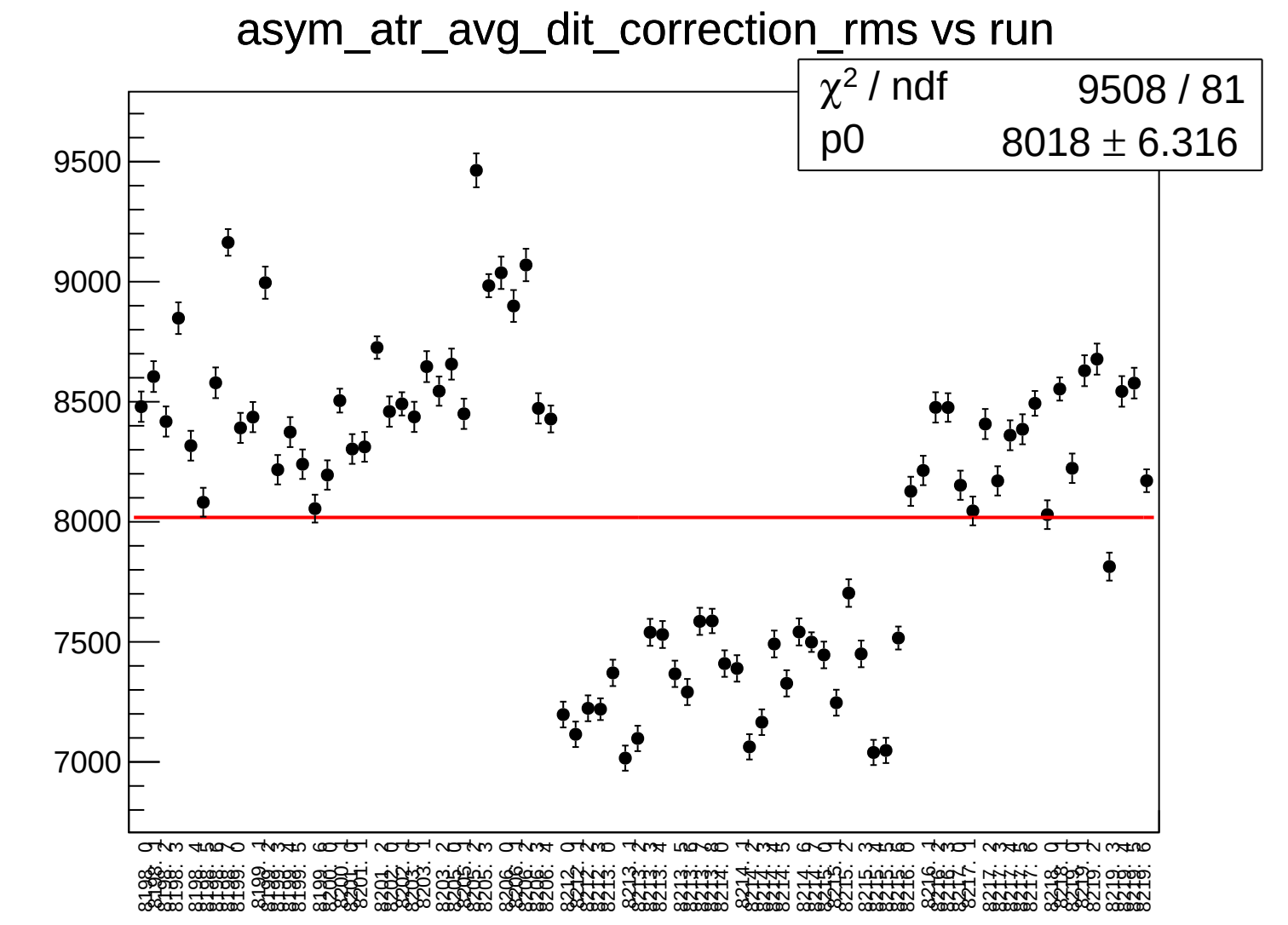

dit_asym_atr_avg_mean vs run
×10^3
χ² / ndf 69.74 / 81
p0 −243.6 ± 2205
pull
Entries 82
Mean −835.9
Std Dev 0

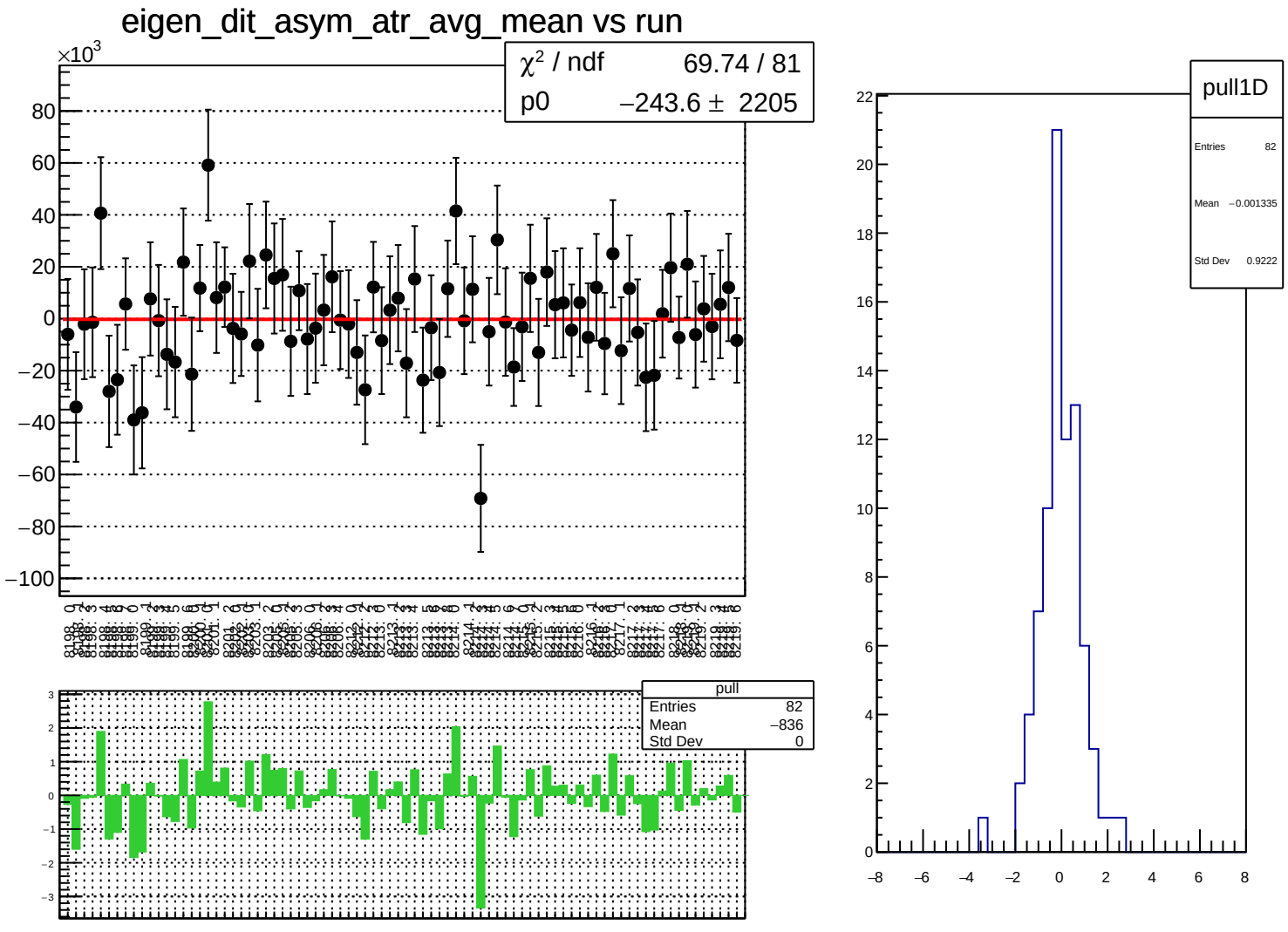

pull1D
Entries 82
Mean −0.001335
Std Dev 0.9222

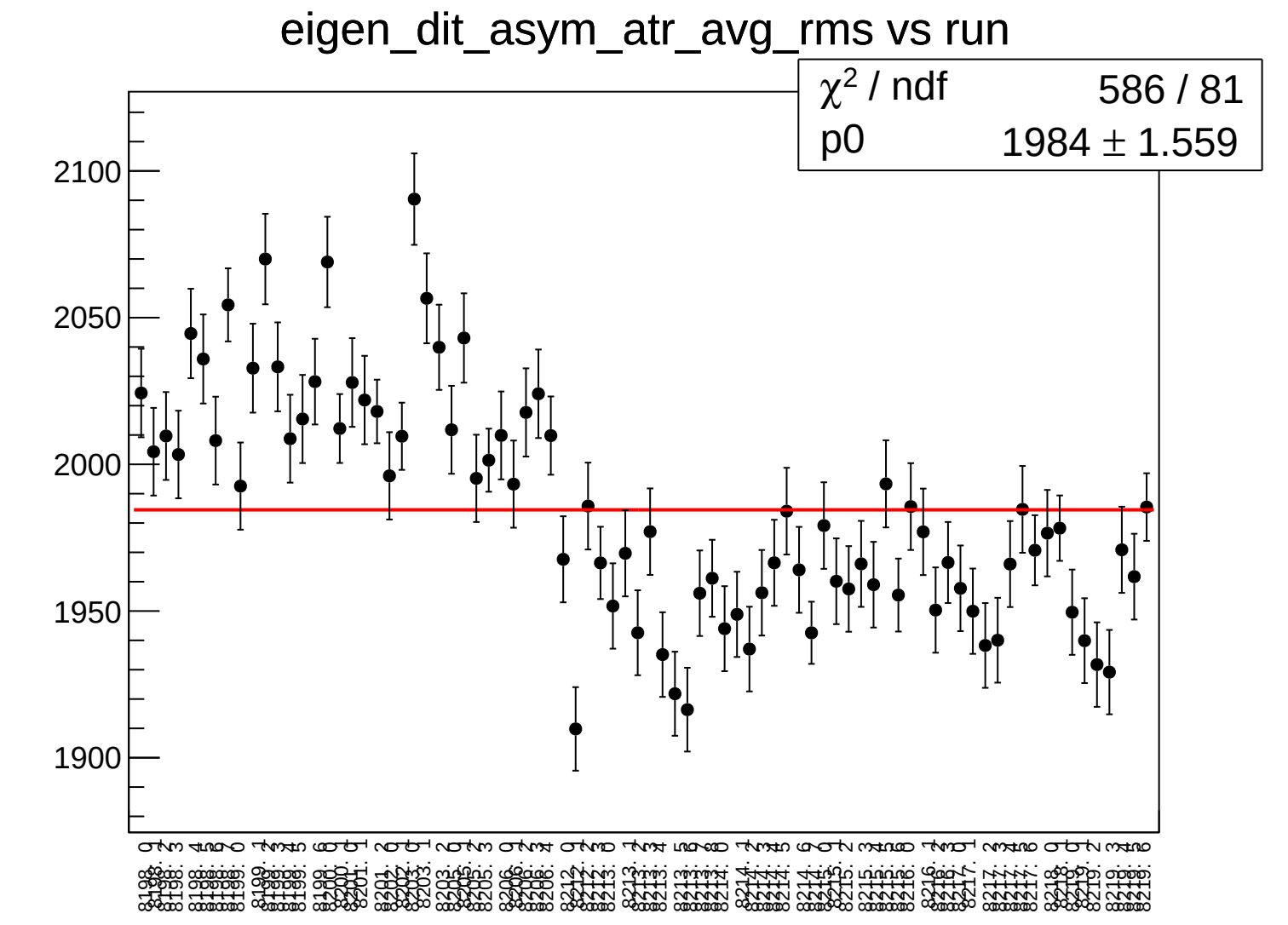

dit_asym_atr_avg_rms vs run
χ² / ndf 586 / 81
p0 1984 ± 1.559
2100
2050
2000
1950
1900

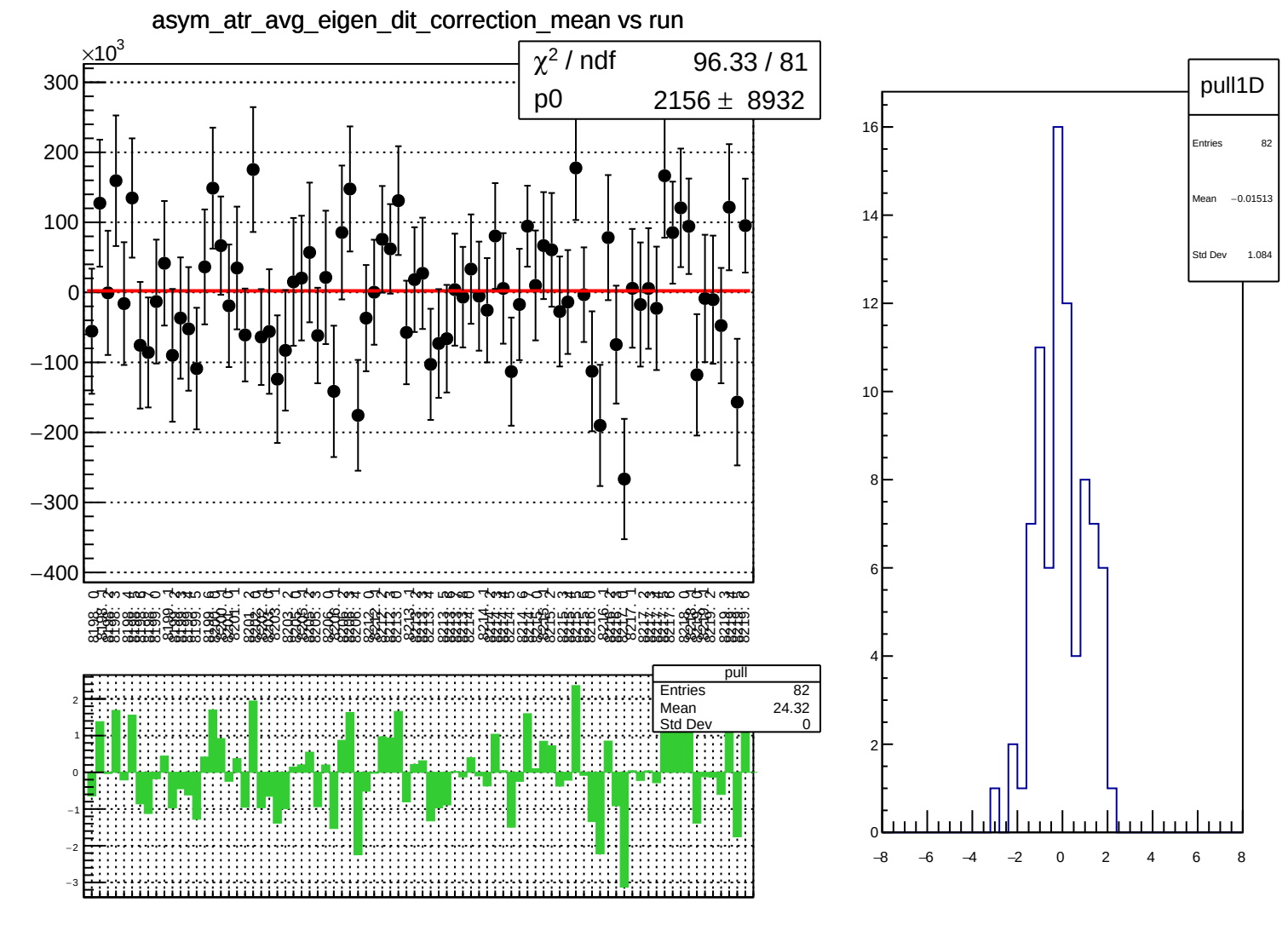

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.33 / 81
p0 2156 ± 8932
pull
Entries 82
Mean 24.32
Std Dev 0

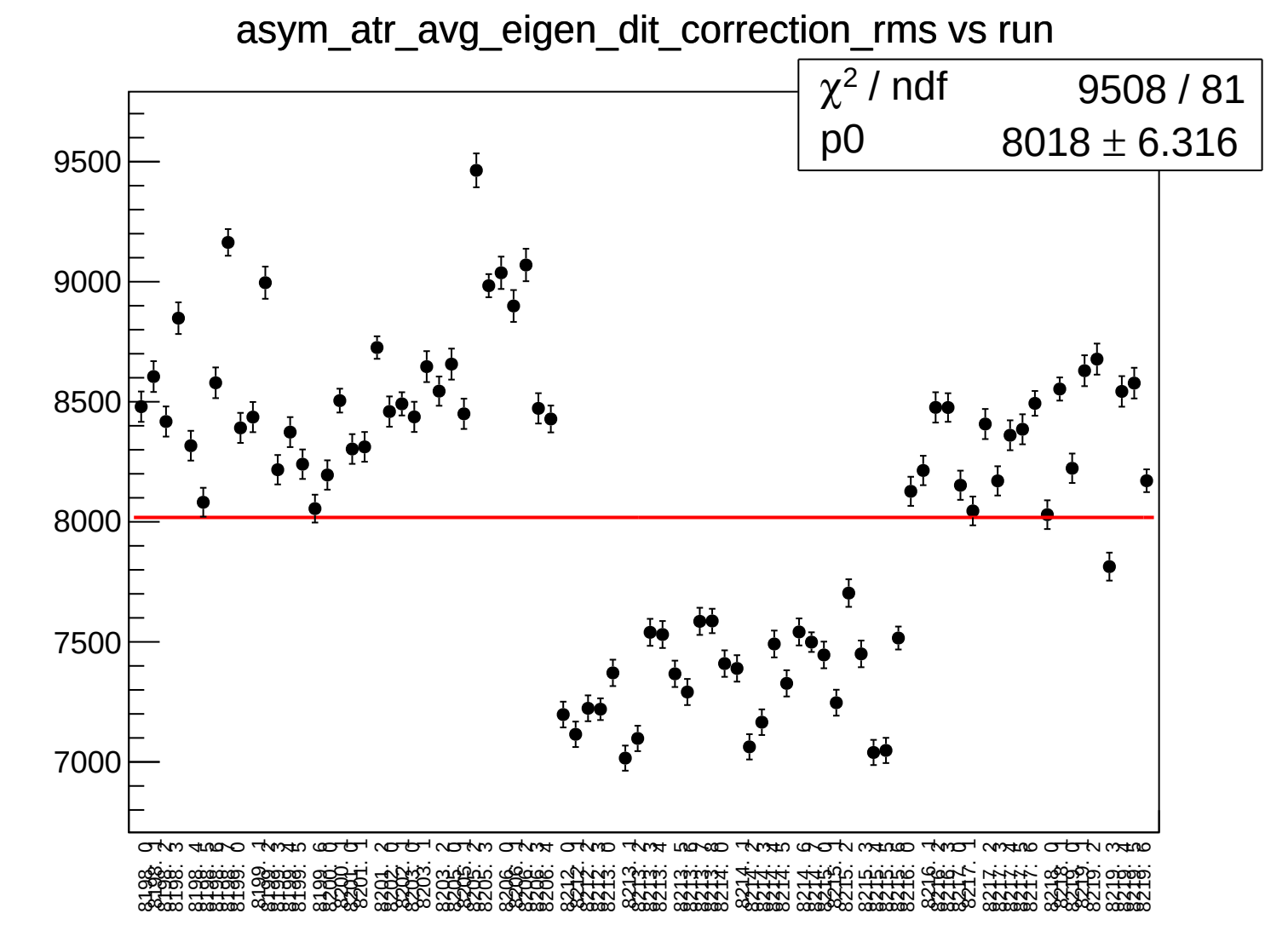

pull1D
Entries 82
Mean −0.01513
Std Dev 1.084

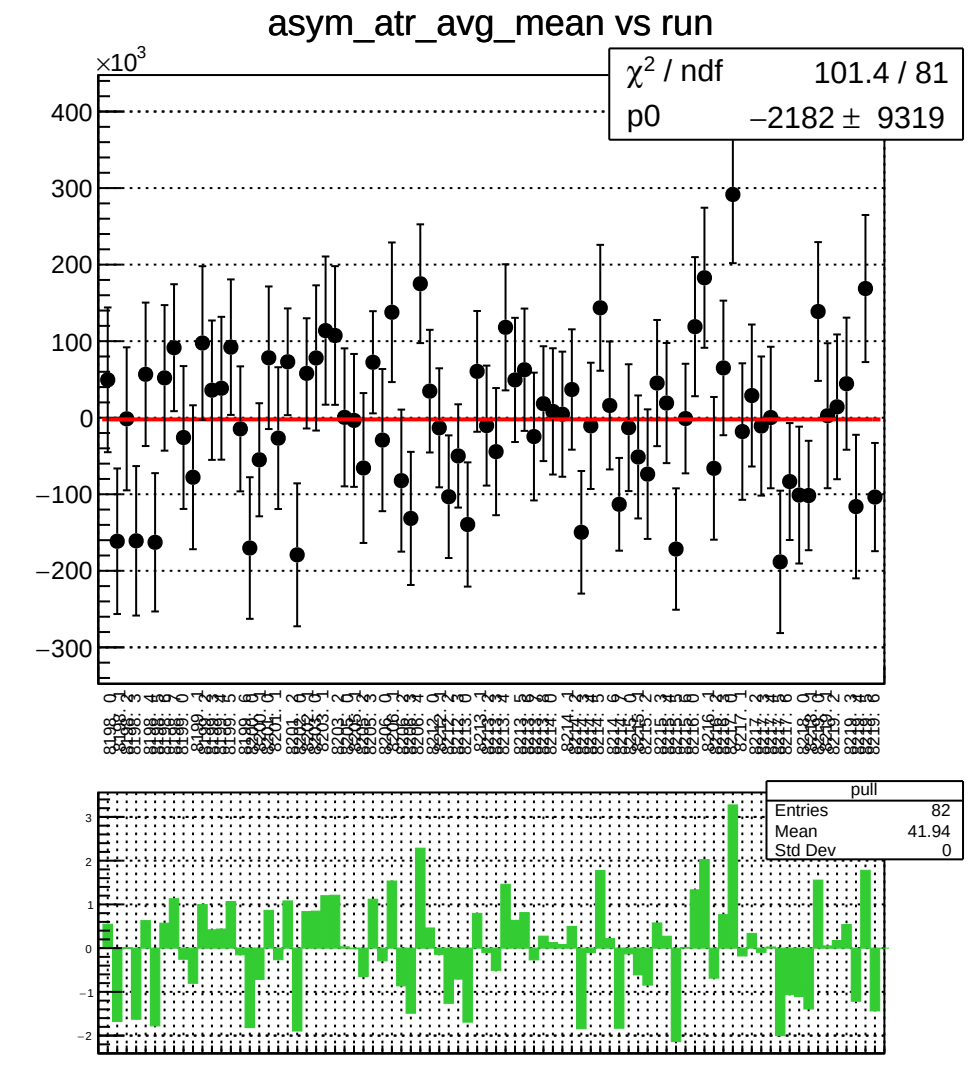

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 9508 / 81
p0 8018 ± 6.316
9500
9000
8500
8000
7500
7000

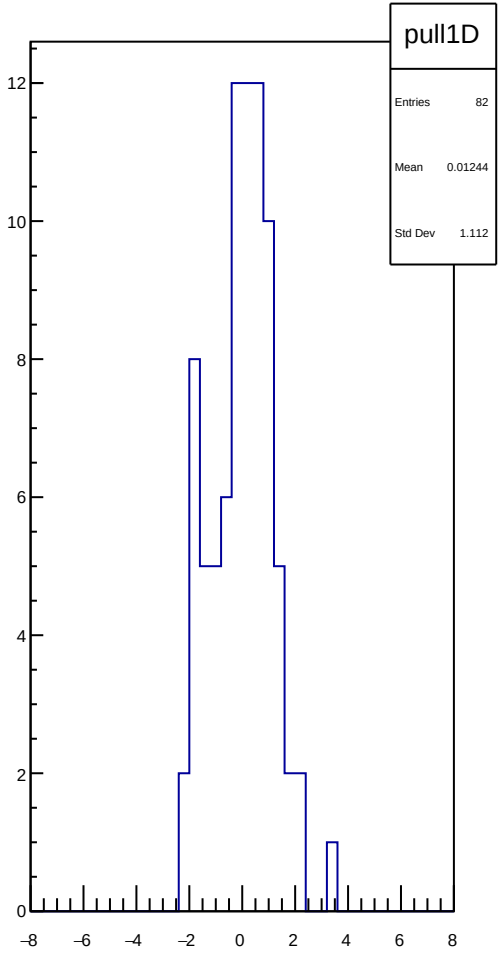

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 69.74 / 81
p0 −243.6 ± 2205
×10³
pull
Entries 82
Mean −836
Std Dev 0
pull1D
Entries 82
Mean −0.001335
Std Dev 0.9222

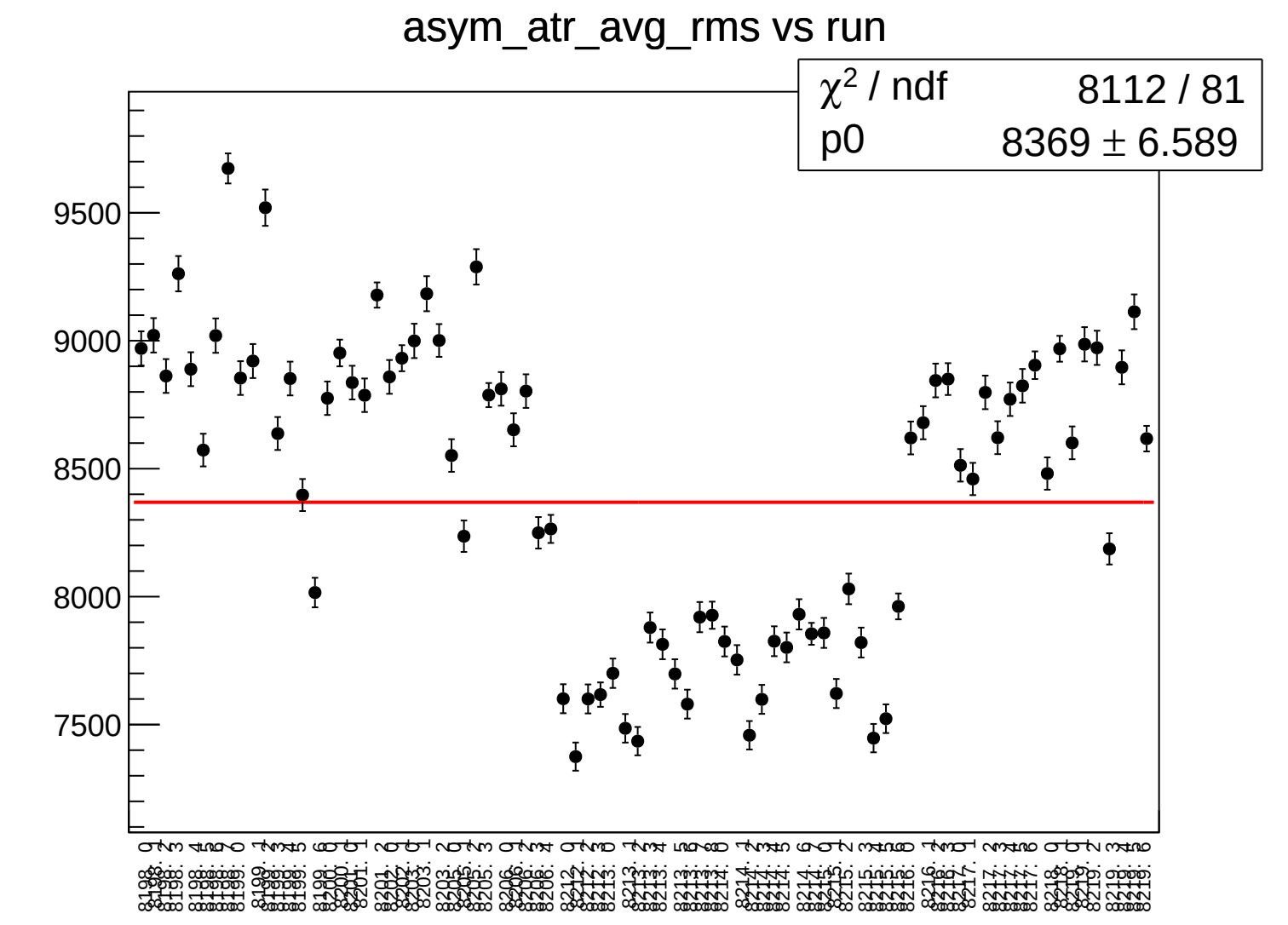

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 586 / 81
p0 1984 ± 1.559
2100
2050
2000
1950
1900

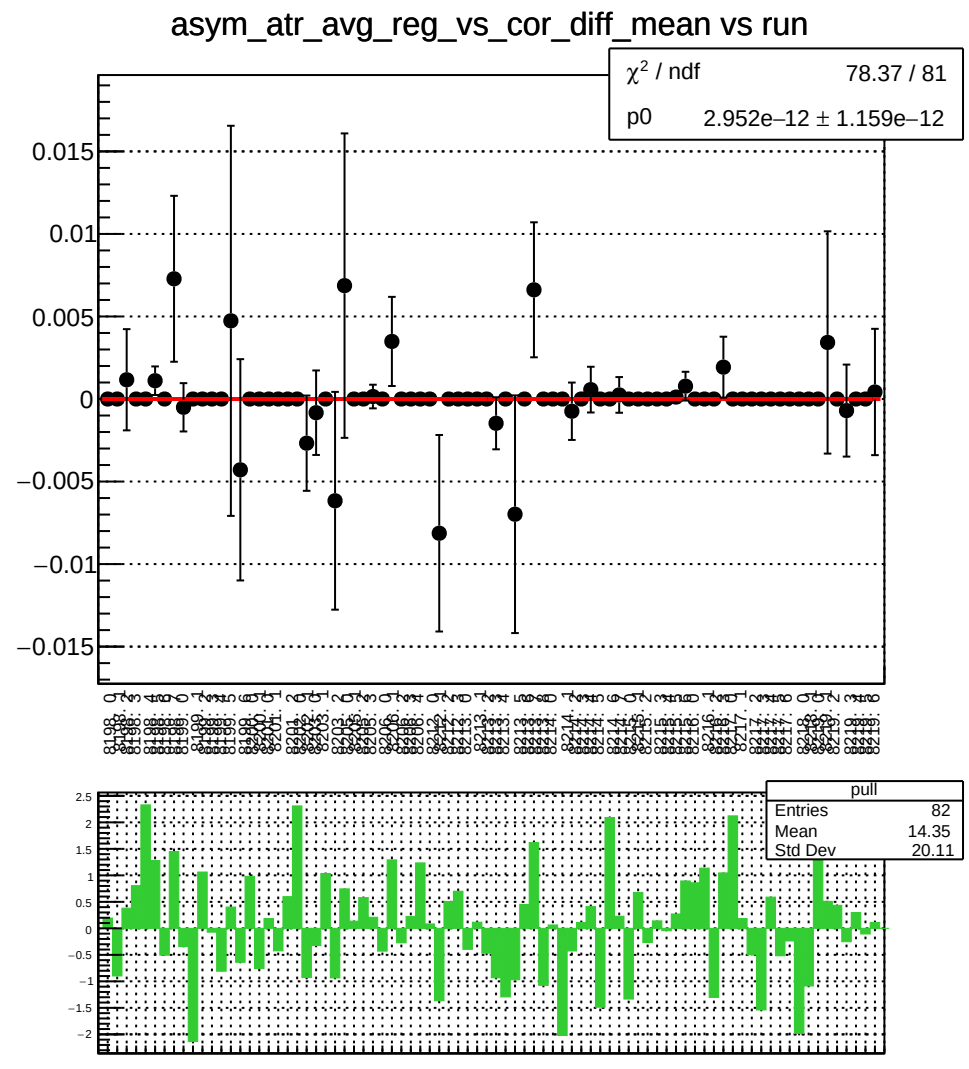

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 96.33 / 81
p0 2156 ± 8932
pull
Entries 82
Mean 24.32
Std Dev 0
pull1D
Entries 82
Mean −0.01513
Std Dev 1.084

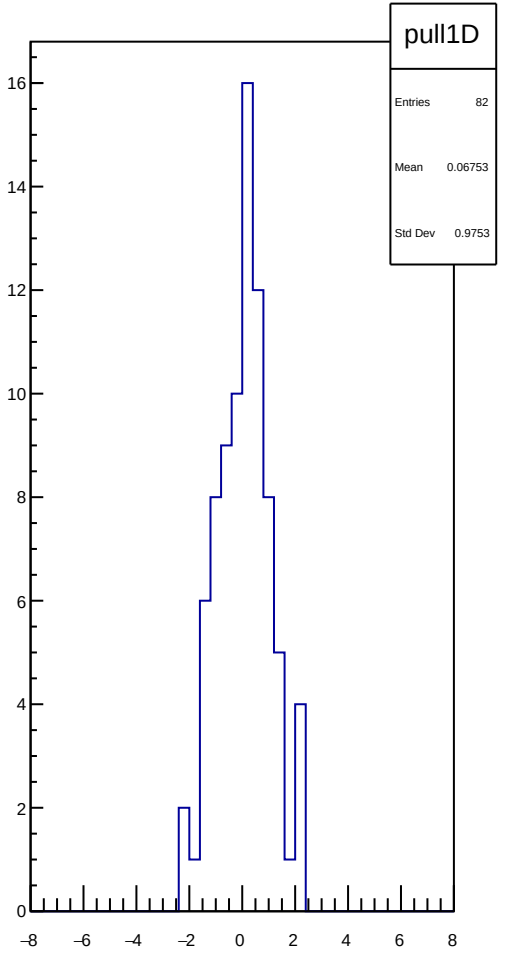

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 9508 / 81
p0 8018 ± 6.316
9500
9000
8500
8000
7500
7000

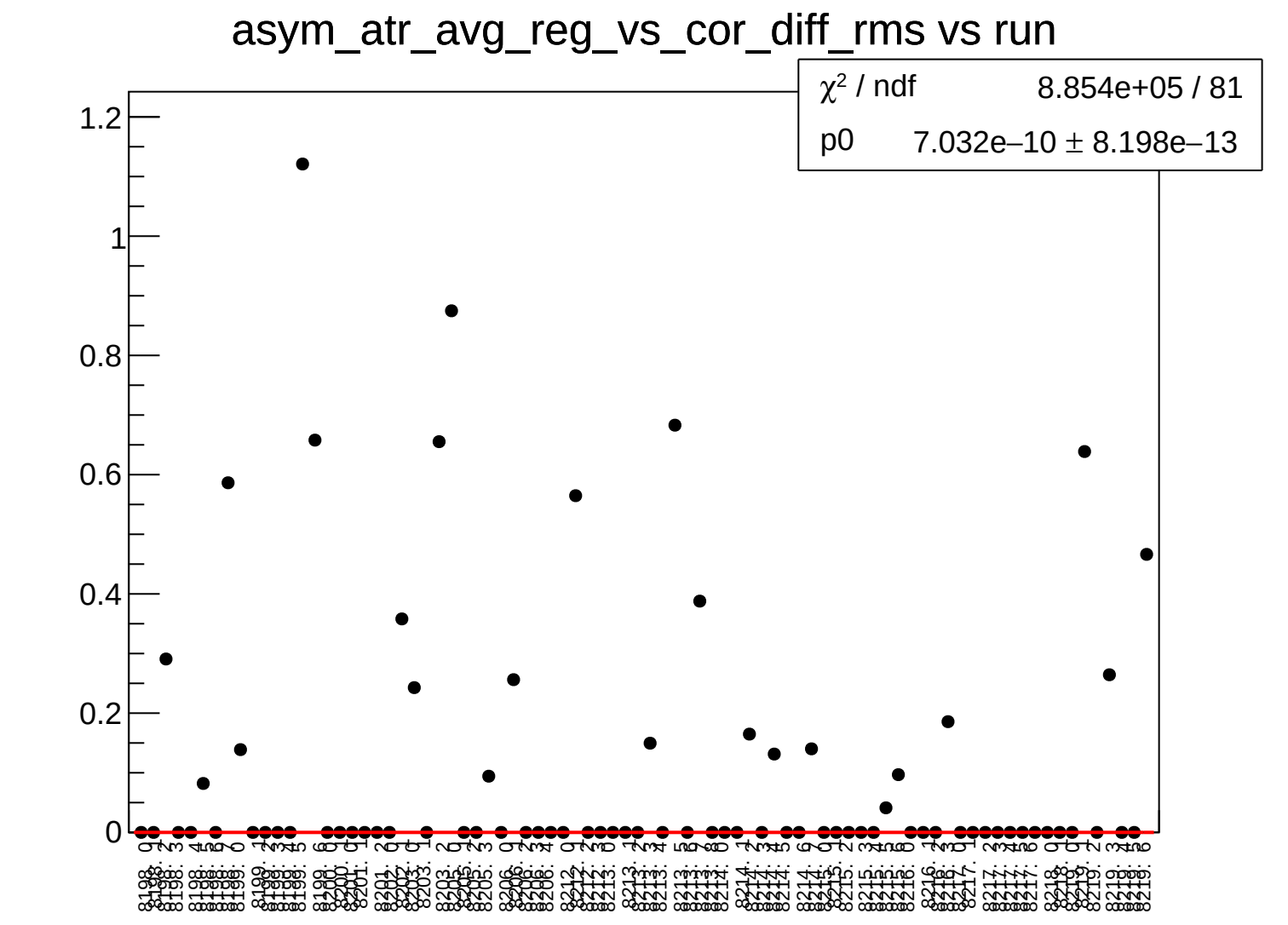

asym_atr_avg_mean vs run
×10^3
χ² / ndf 101.4 / 81
p0 −2182 ± 9319
pull
Entries 82
Mean 41.94
Std Dev 0

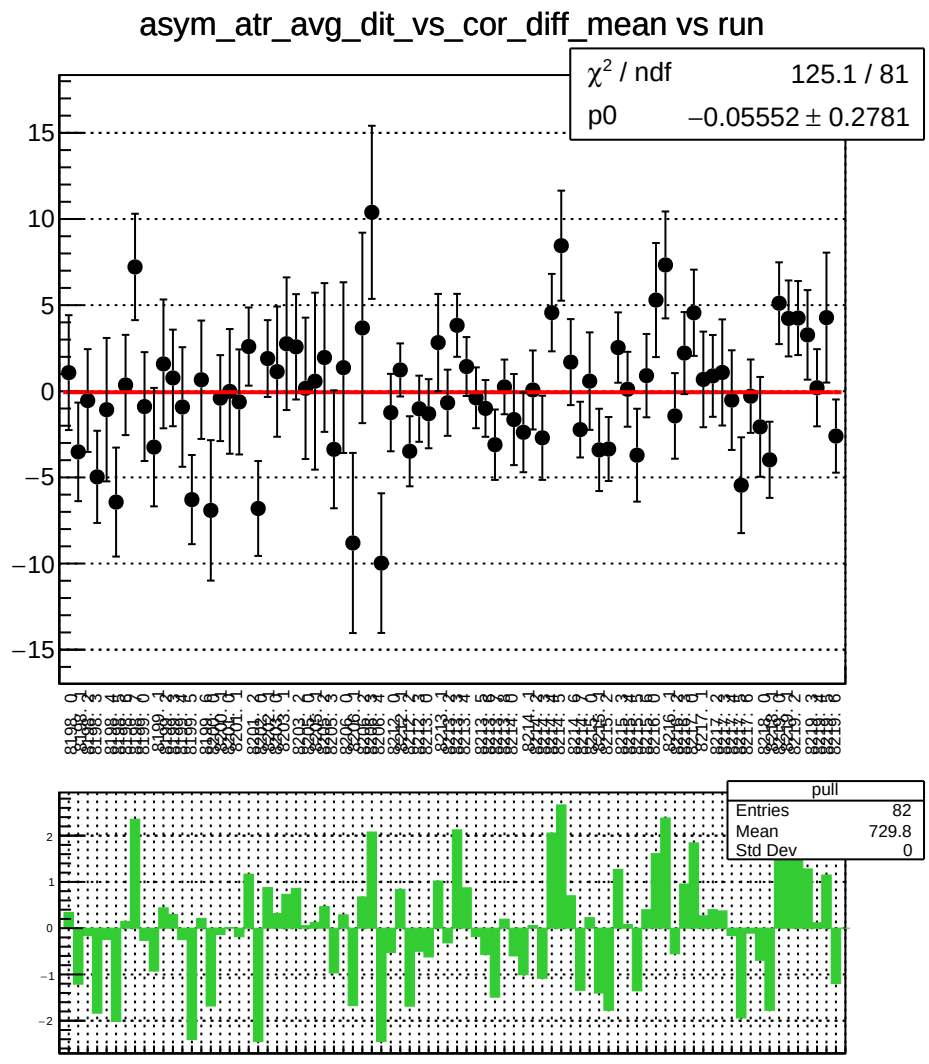

pull1D
Entries 82
Mean 0.01244
Std Dev 1.112

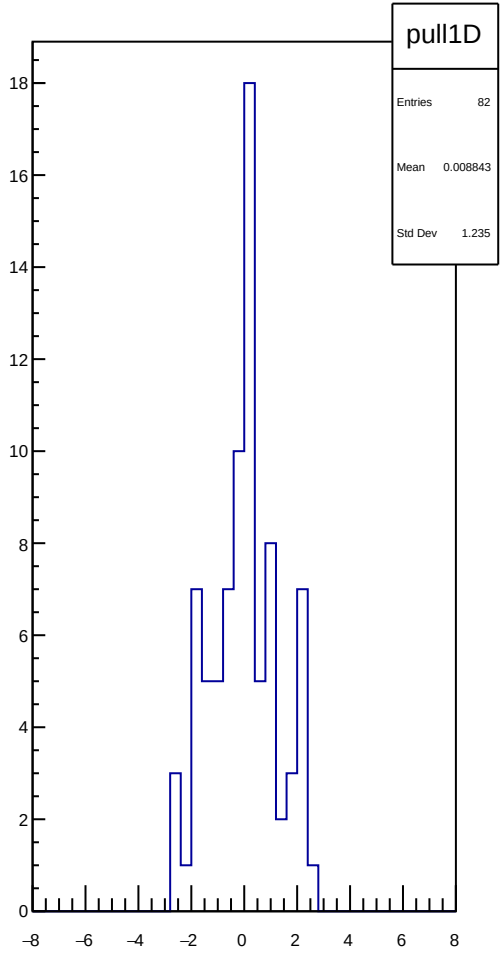

asym_atr_avg_rms vs run
χ² / ndf 8112 / 81
p0 8369 ± 6.589
9500
9000
8500
8000
7500

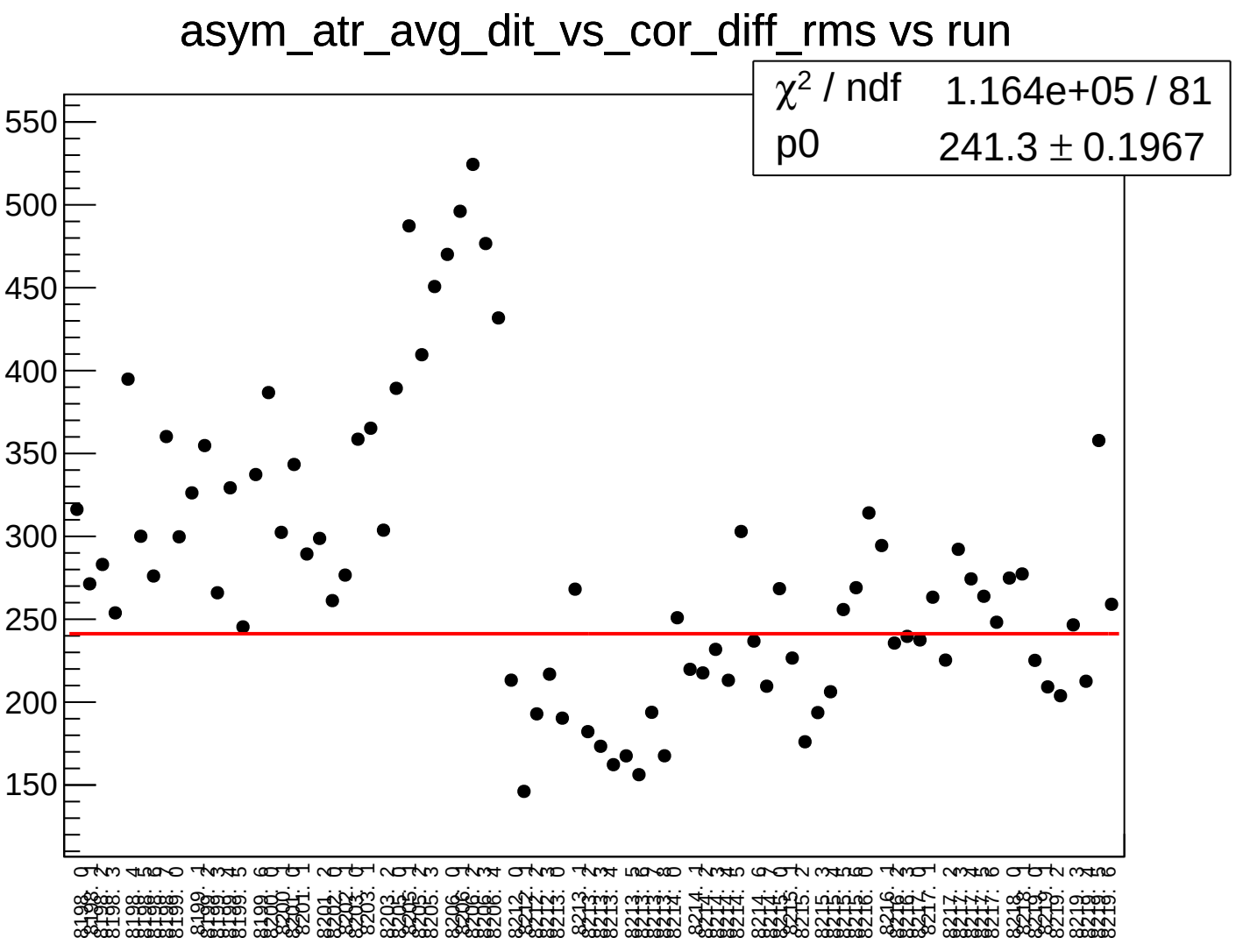

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.37 / 81
p0 2.952e−12 ± 1.159e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 82
Mean 14.35
Std Dev 20.11
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

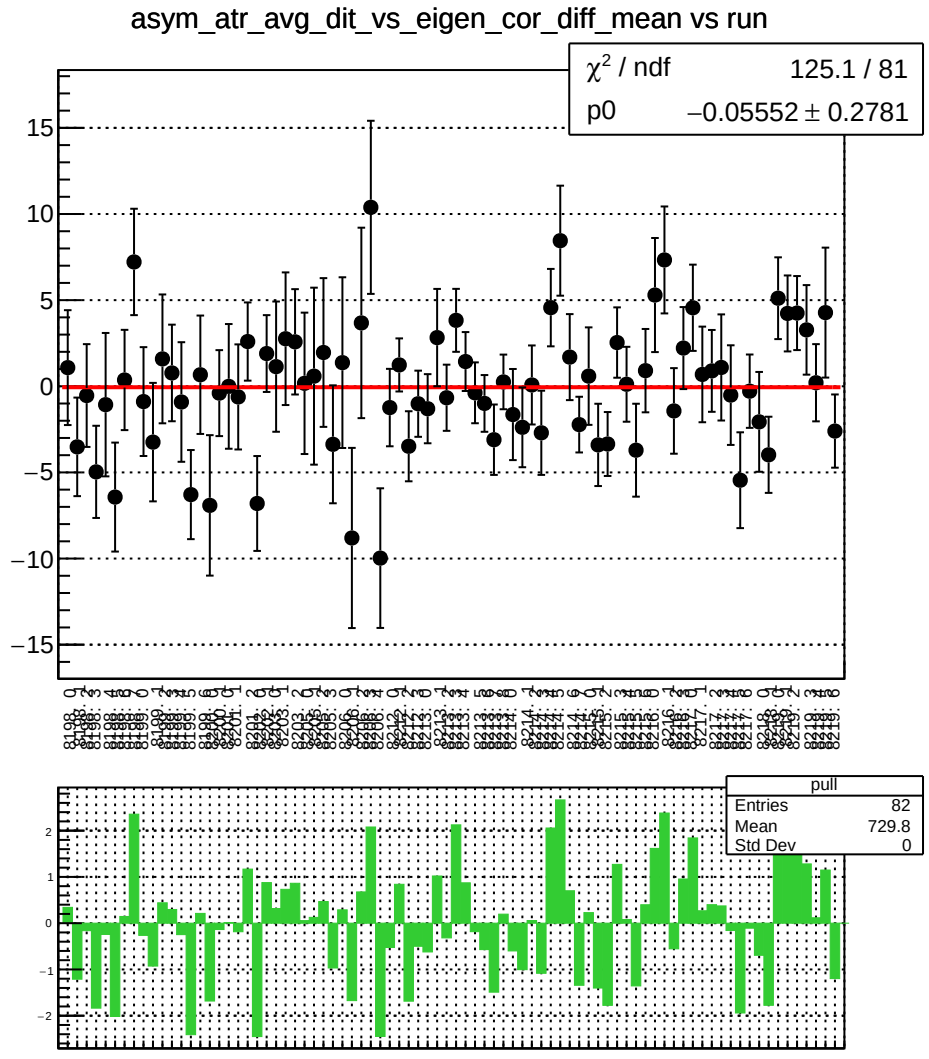

pull1D
Entries 82
Mean 0.06753
Std Dev 0.9753
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

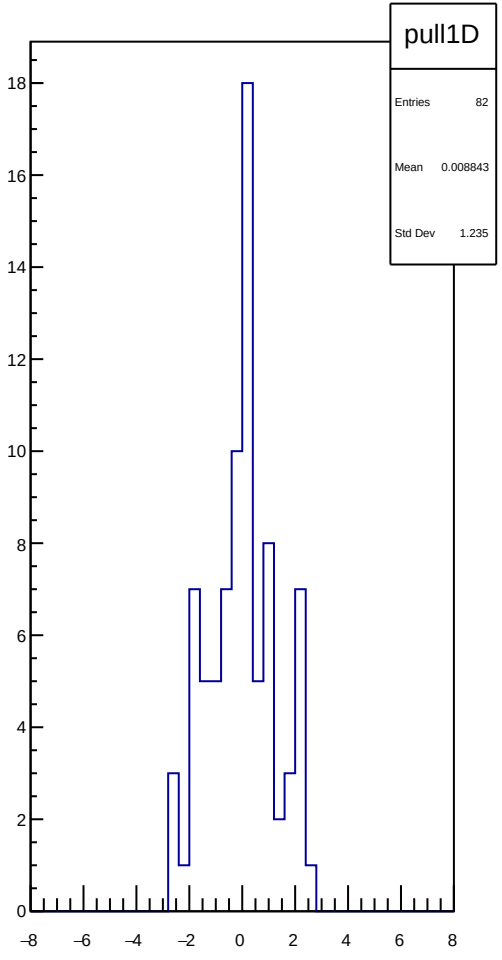

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.854e+05 / 81
p0 7.032e−10 ± 8.198e−13
1.2
1
0.8
0.6
0.4
0.2
0

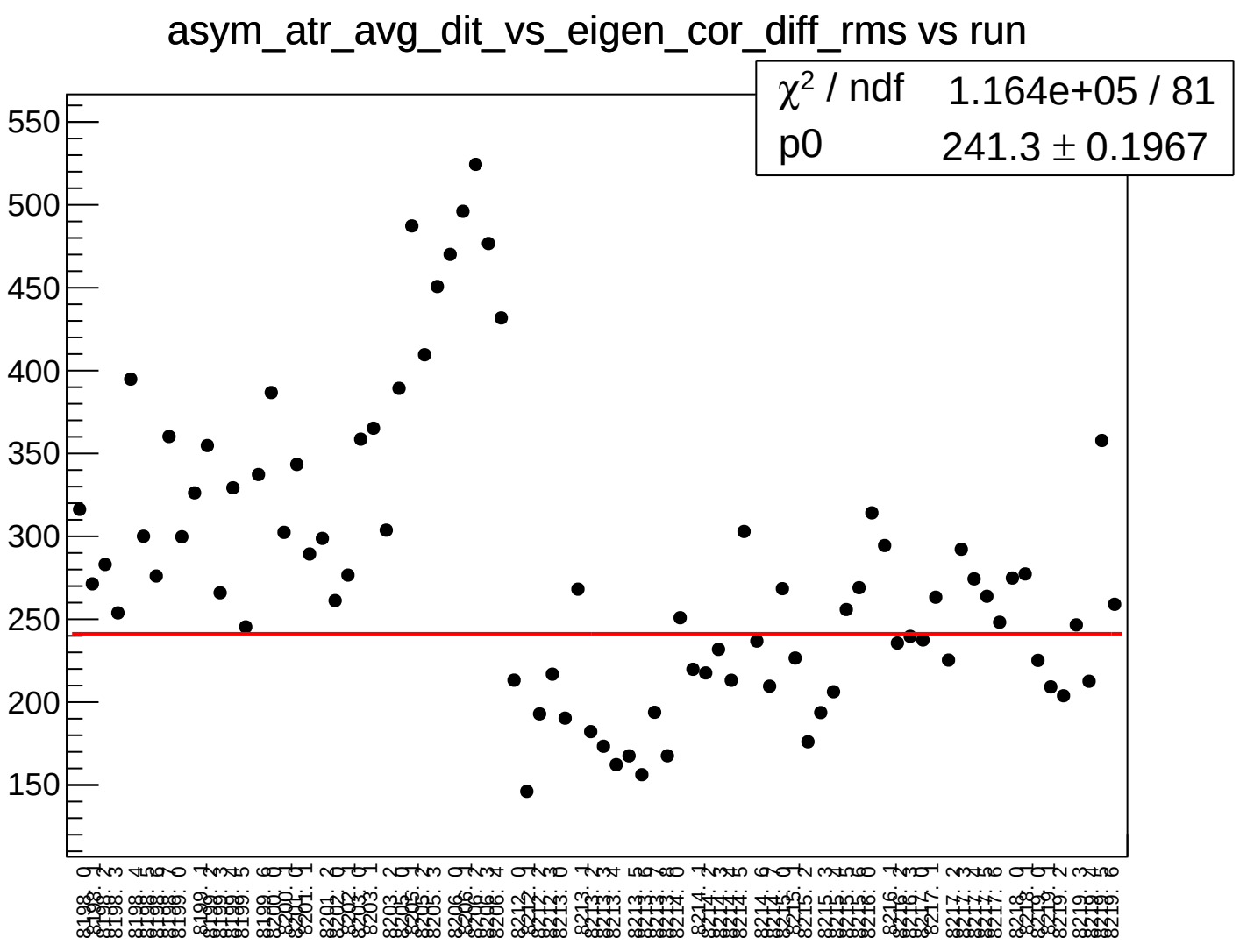

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 125.1 / 81
p0 −0.05552 ± 0.2781
pull
Entries 82
Mean 729.8
Std Dev 0

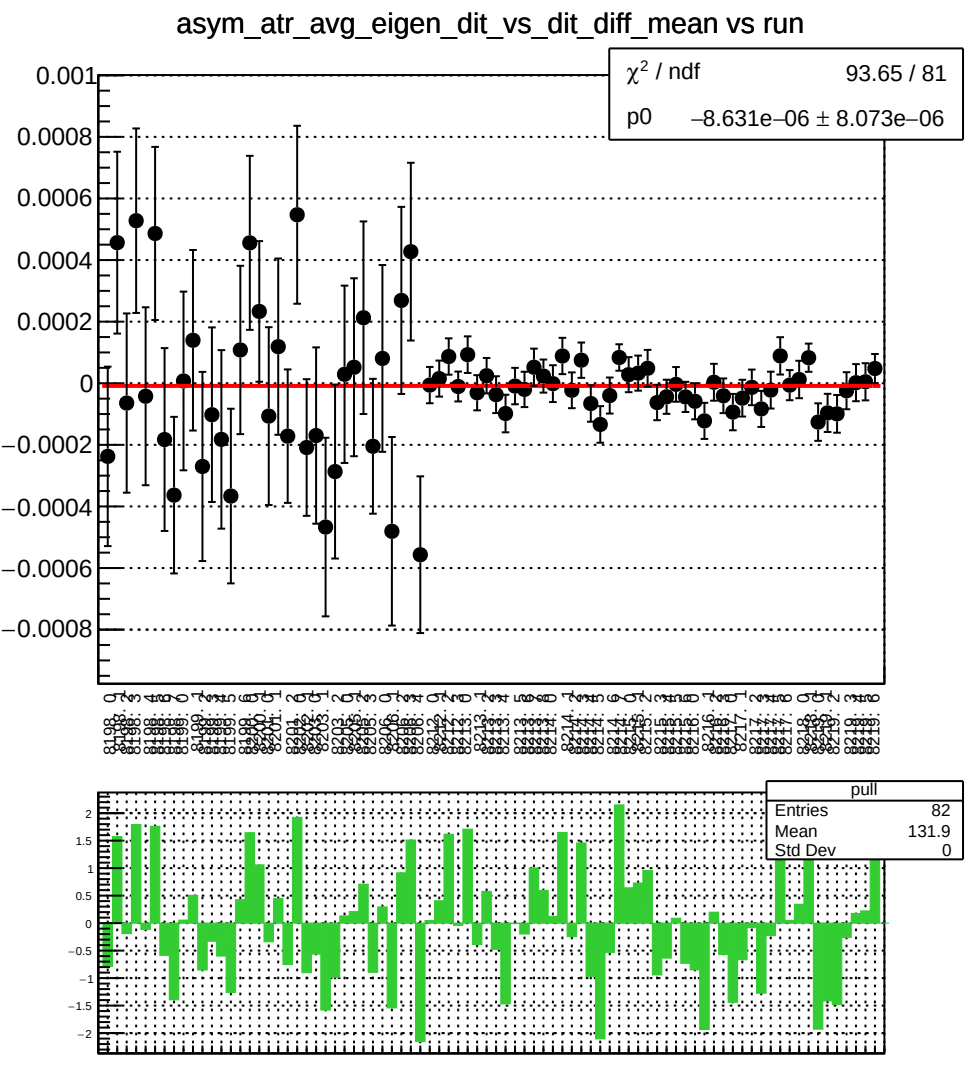

pull1D
Entries 82
Mean 0.008843
Std Dev 1.235

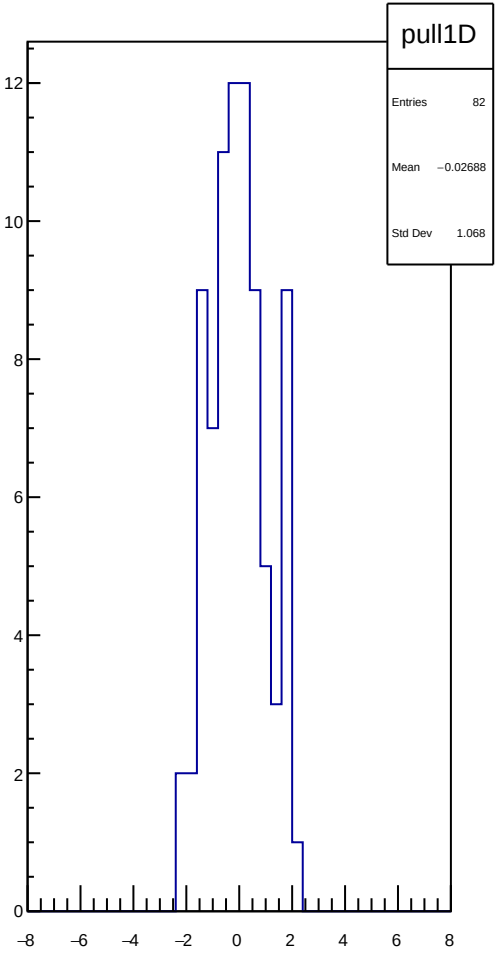

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 81
p0 241.3 ± 0.1967
550
500
450
400
350
300
250
200
150

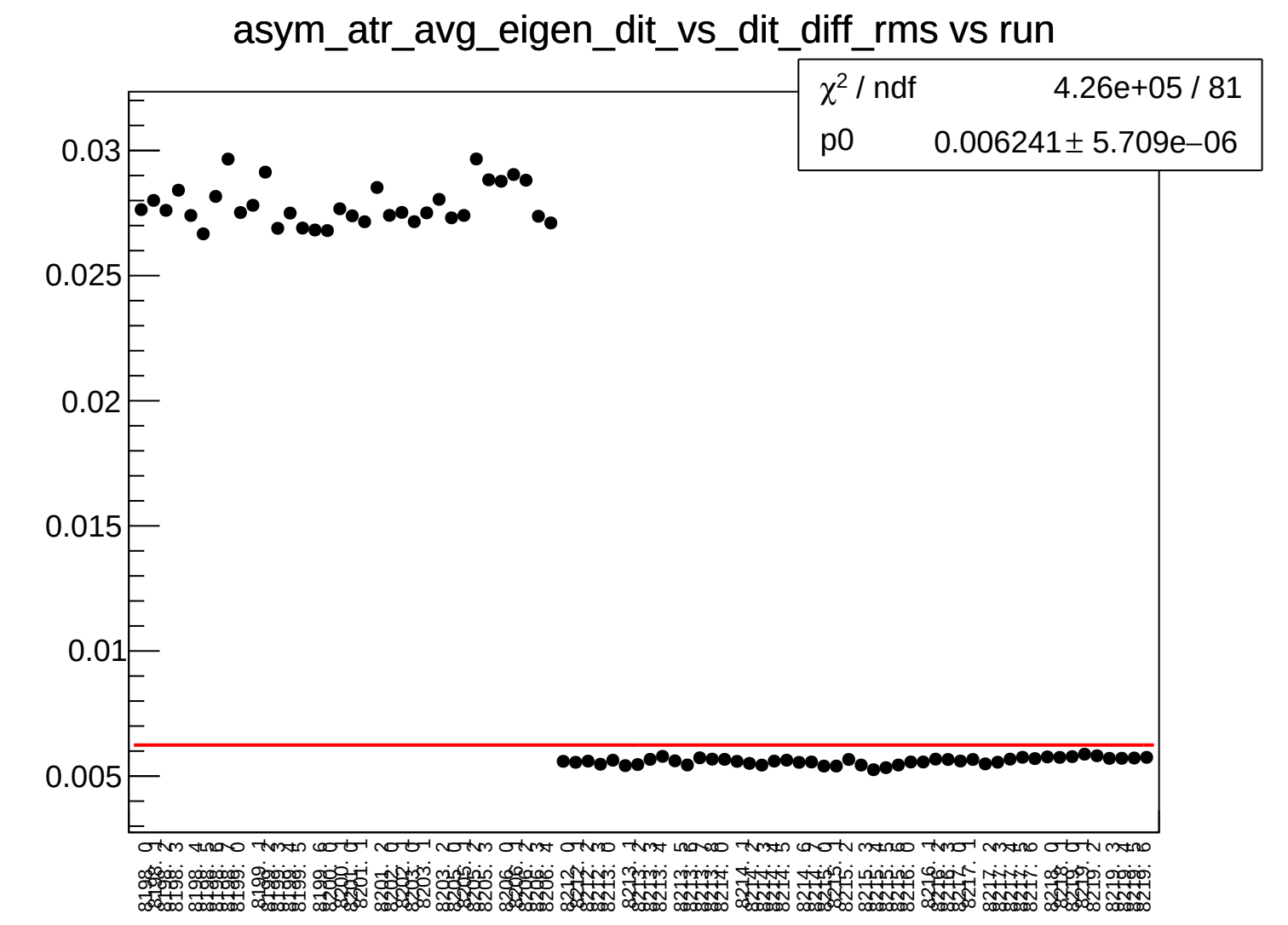

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.1 / 81
p0 −0.05552 ± 0.2781
pull
Entries 82
Mean 729.8
Std Dev 0

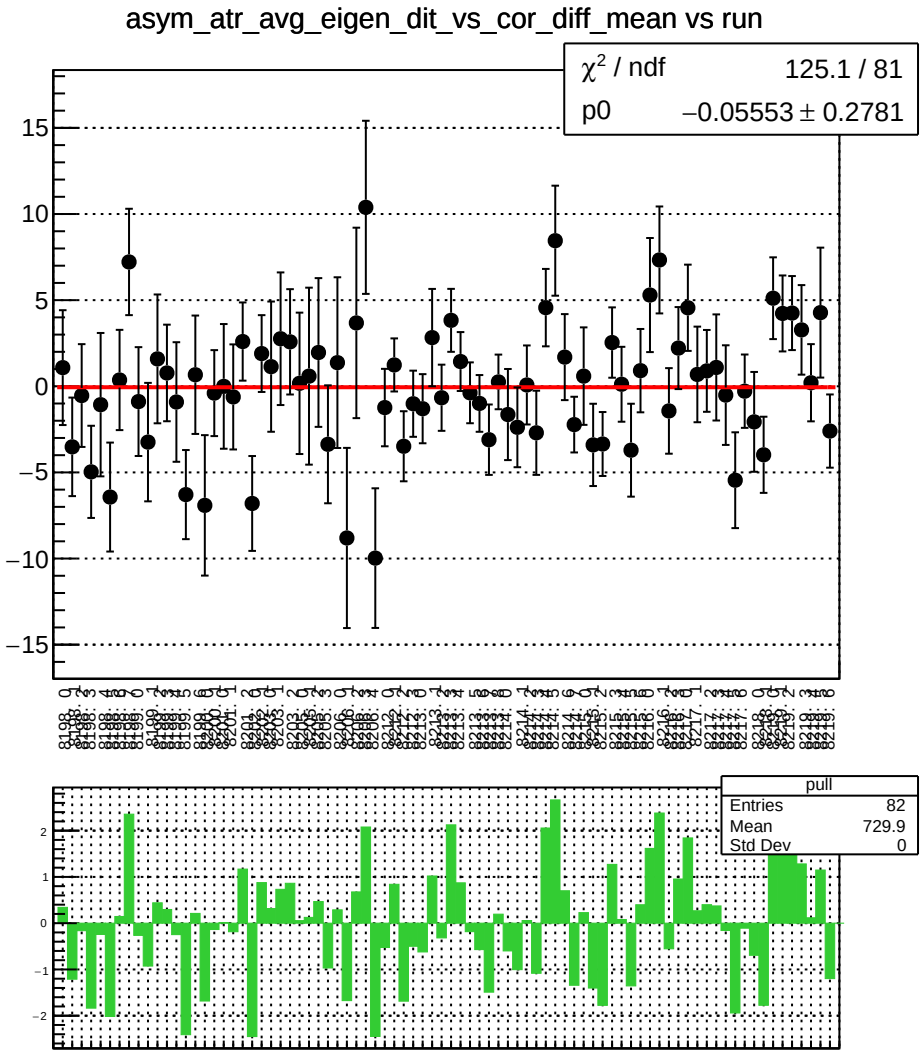

pull1D
Entries 82
Mean 0.008843
Std Dev 1.235

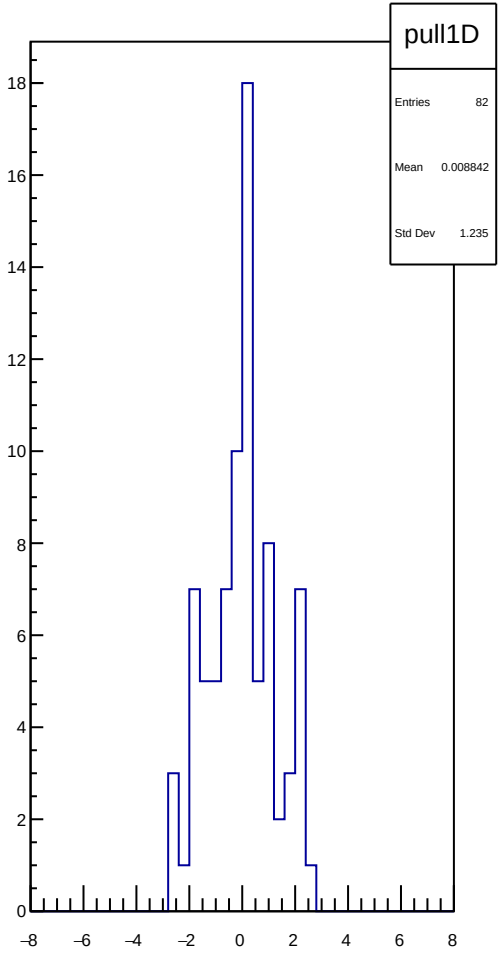

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 81
p0 241.3 ± 0.1967
550
500
450
400
350
300
250
200
150

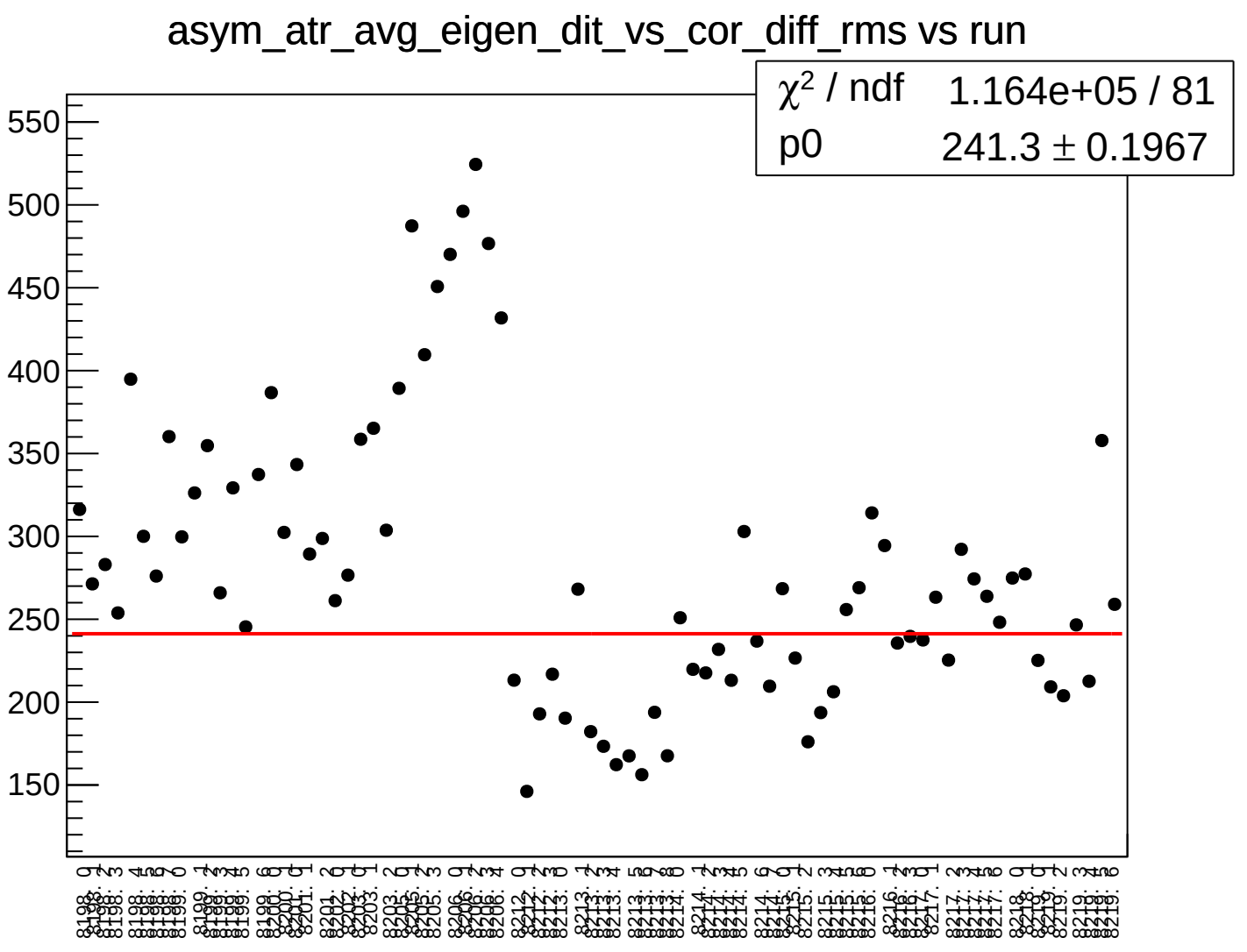

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 93.65 / 81
p0 −8.631e−06 ± 8.073e−06
pull
Entries 82
Mean 131.9
Std Dev 0

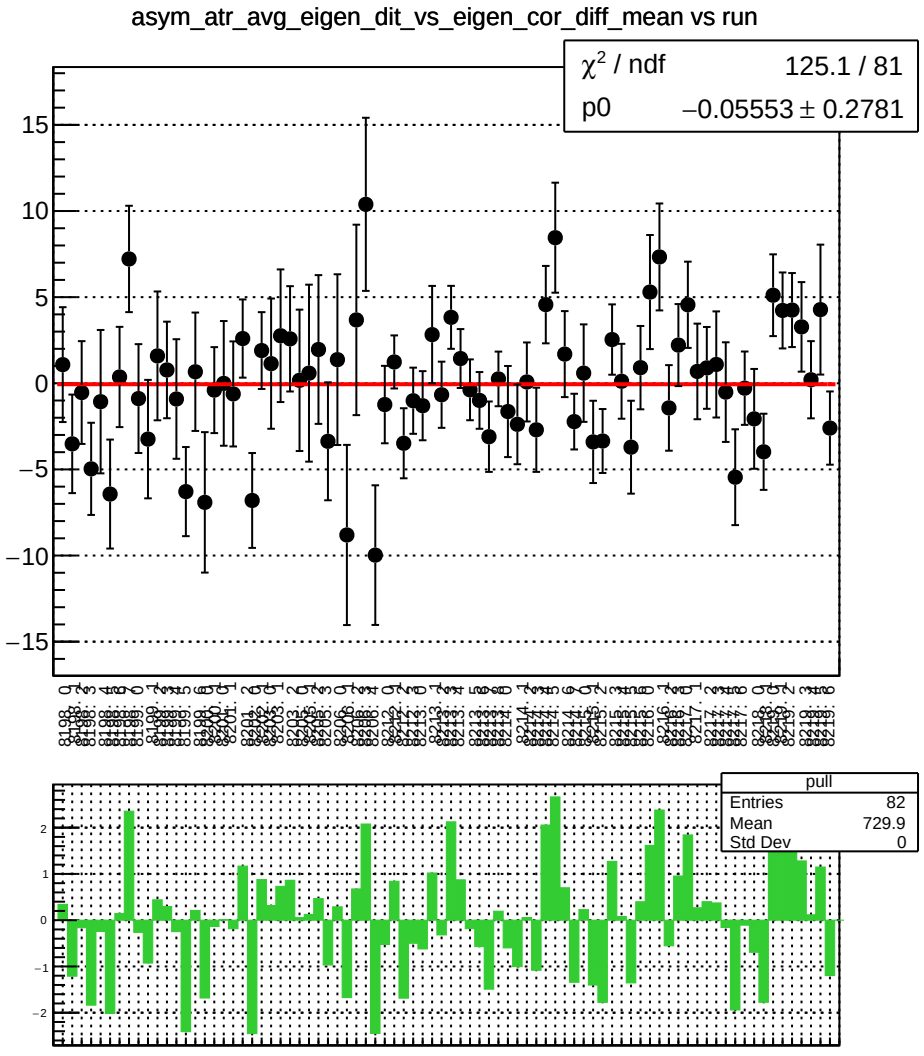

pull1D
Entries 82
Mean −0.02688
Std Dev 1.068

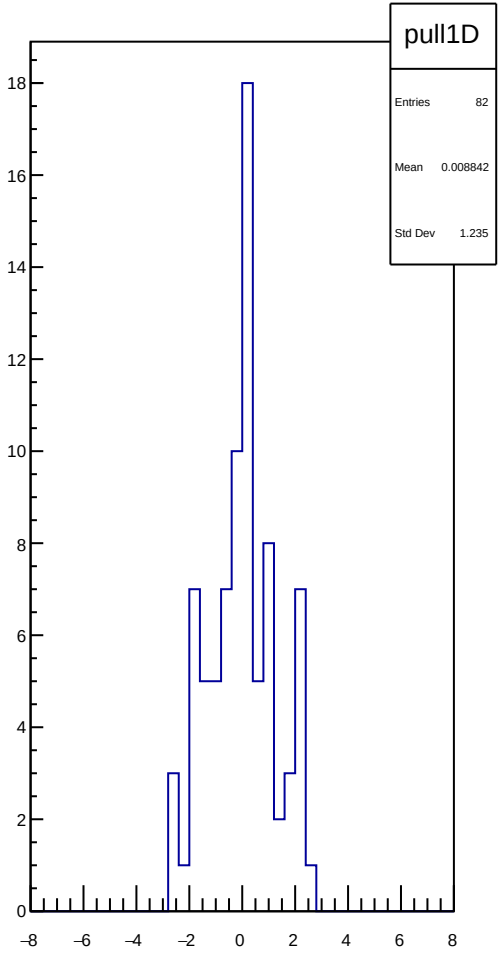

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.26e+05 / 81
p0 0.006241 ± 5.709e−06
0.03
0.025
0.02
0.015
0.01
0.005

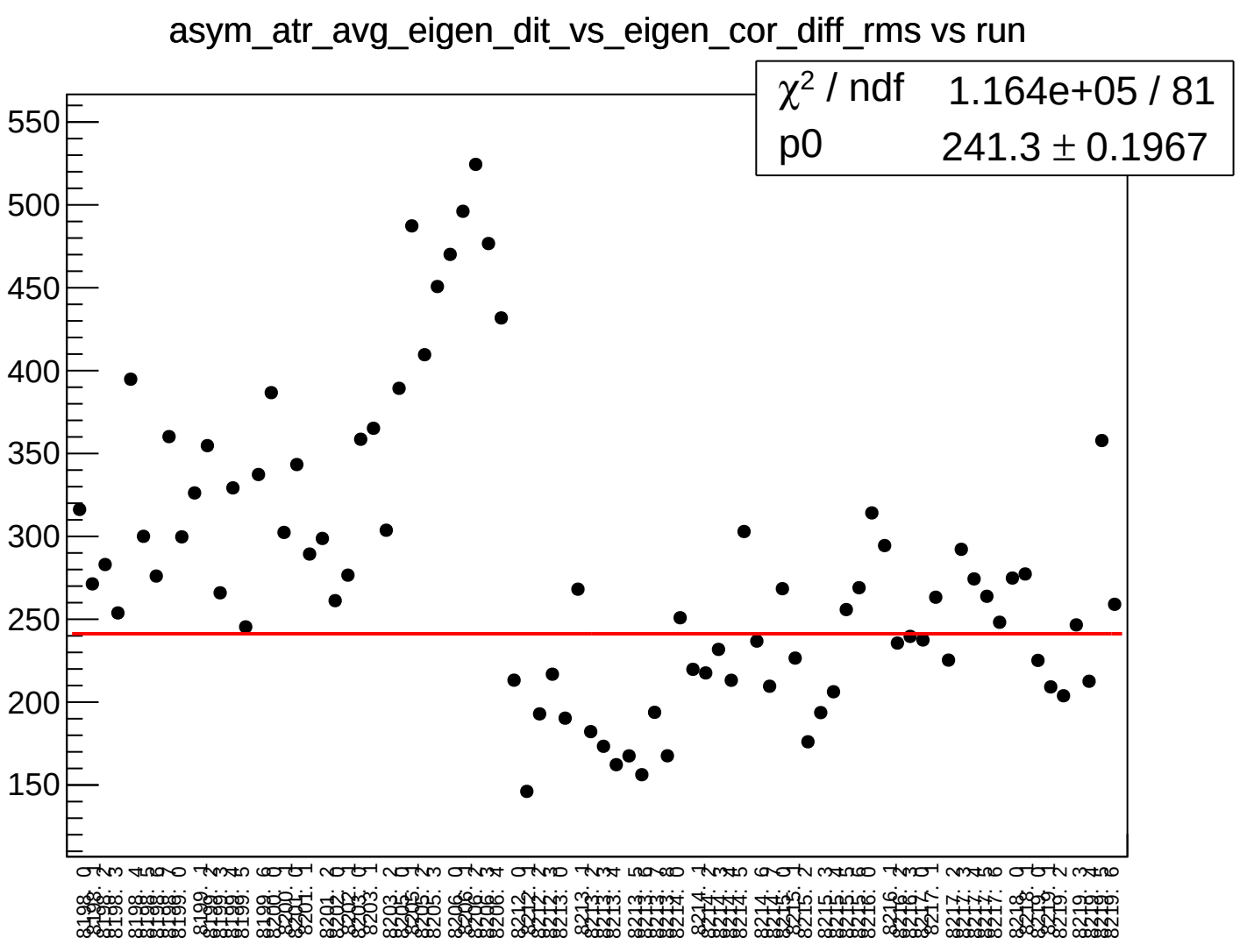

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 125.1 / 81
p0 −0.05553 ± 0.2781
pull
Entries 82
Mean 729.9
Std Dev 0

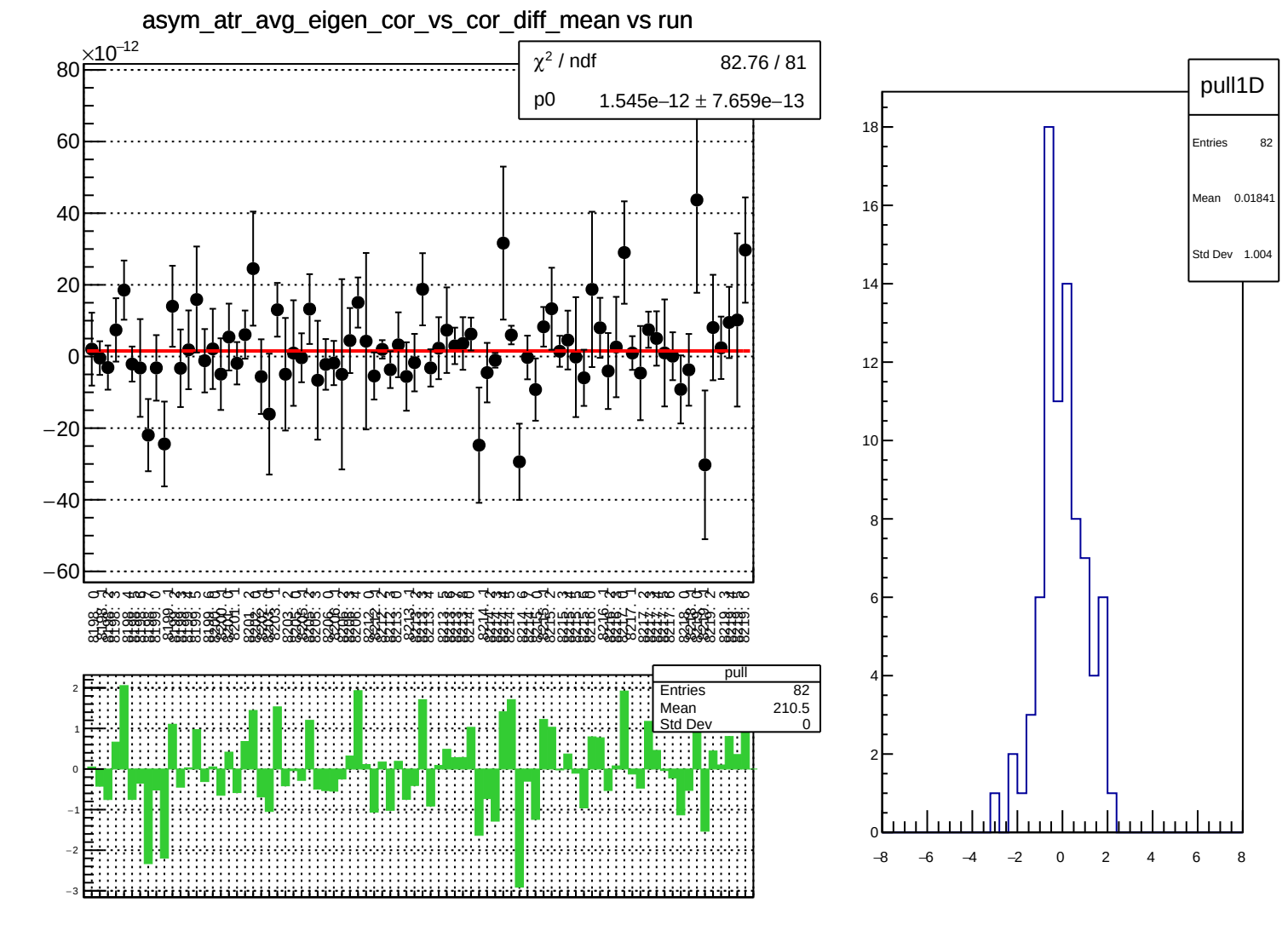

pull1D
Entries 82
Mean 0.008842
Std Dev 1.235

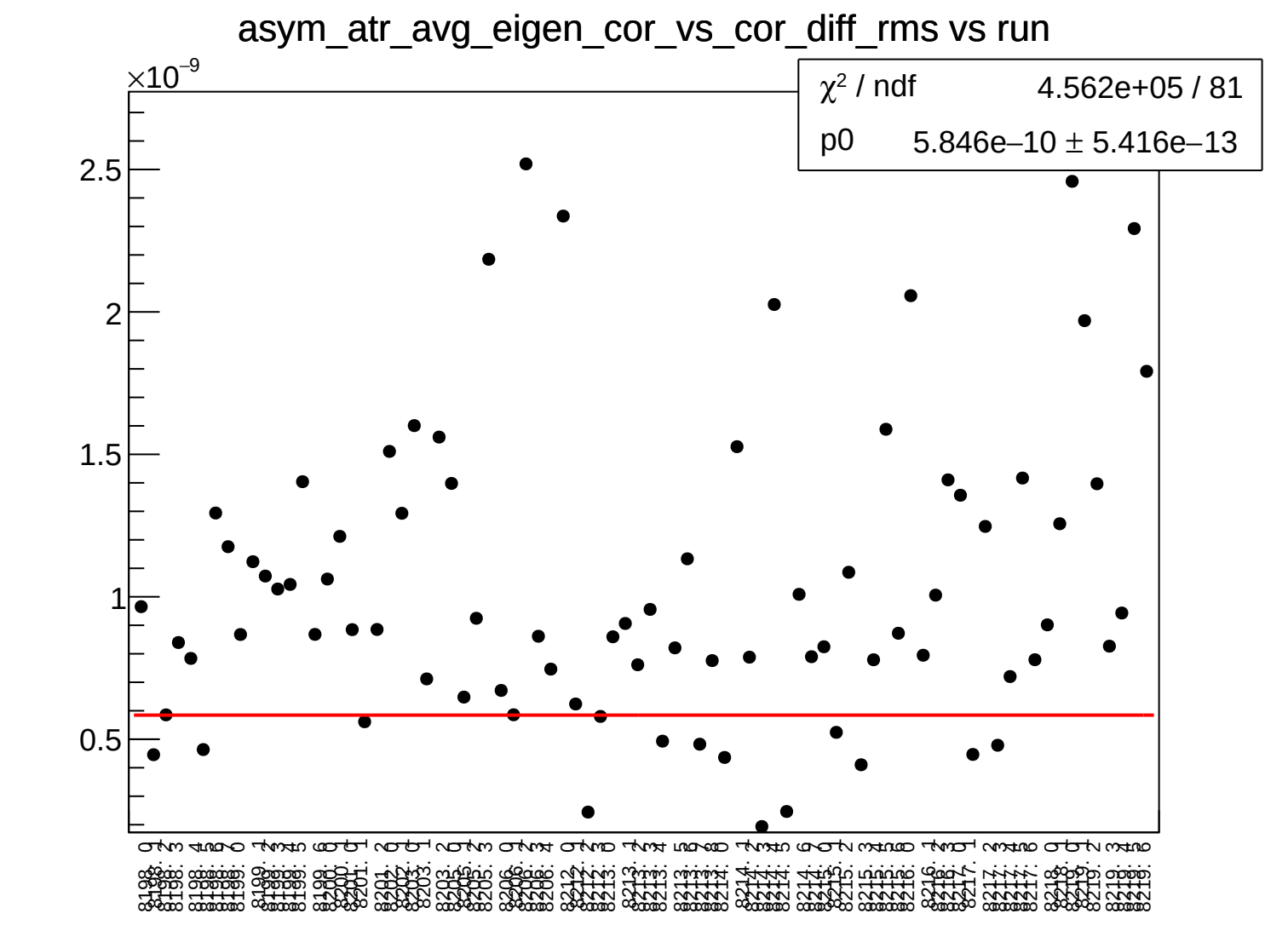

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 81
p0 241.3 ± 0.1967
550
500
450
400
350
300
250
200
150

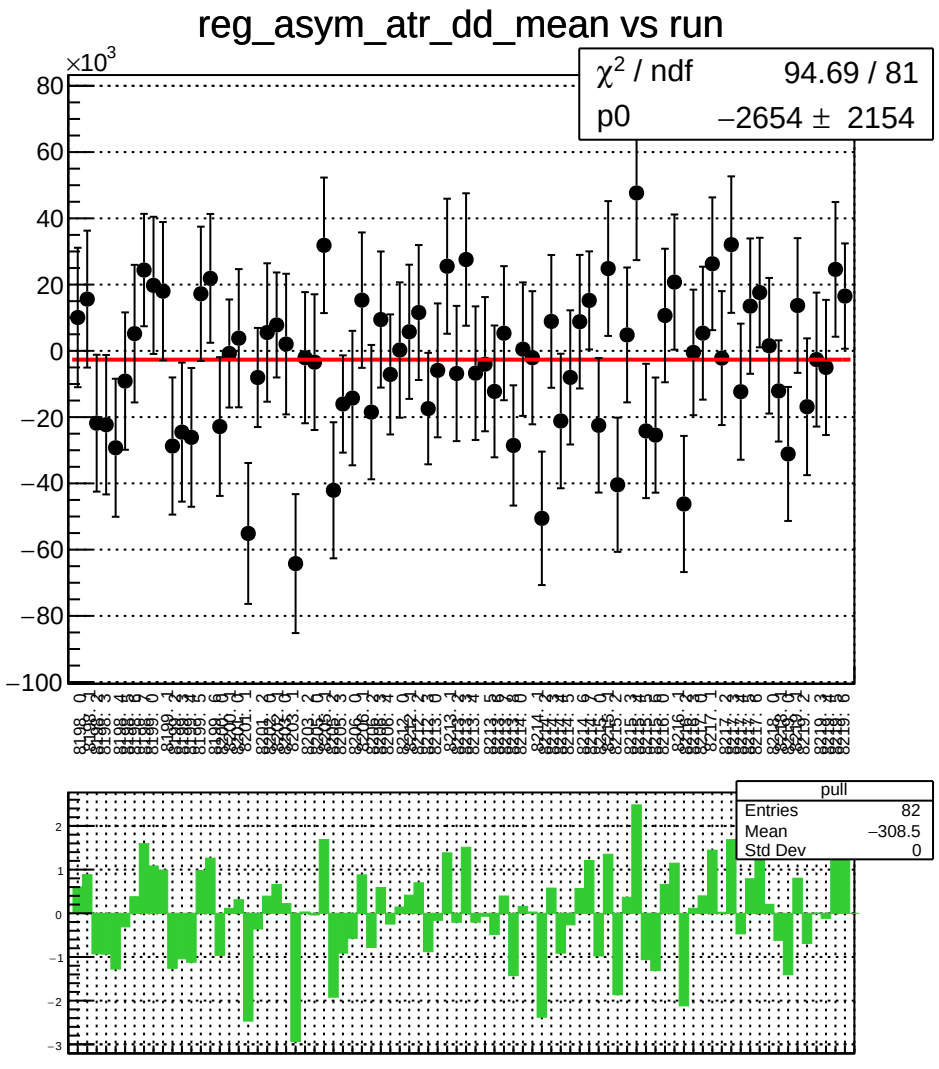

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.1 / 81
p0 −0.05553 ± 0.2781
pull
Entries 82
Mean 729.9
Std Dev 0

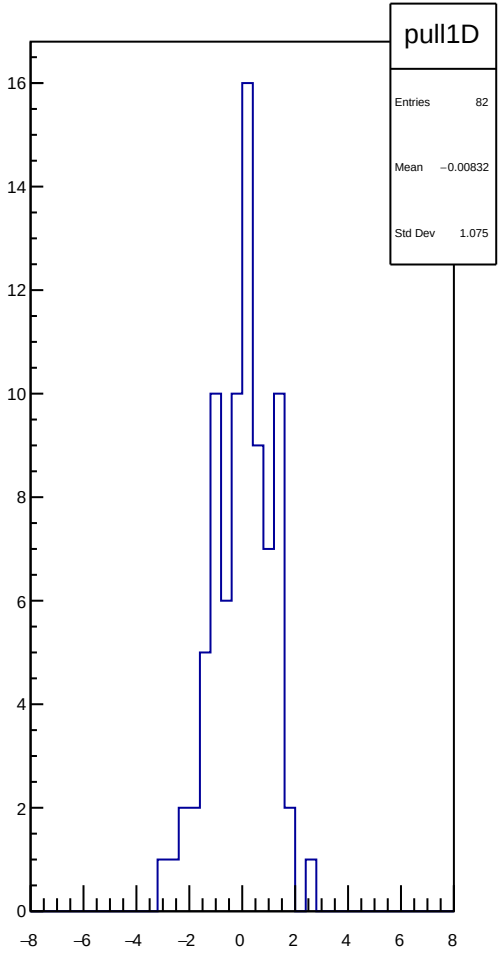

pull1D
Entries 82
Mean 0.008842
Std Dev 1.235

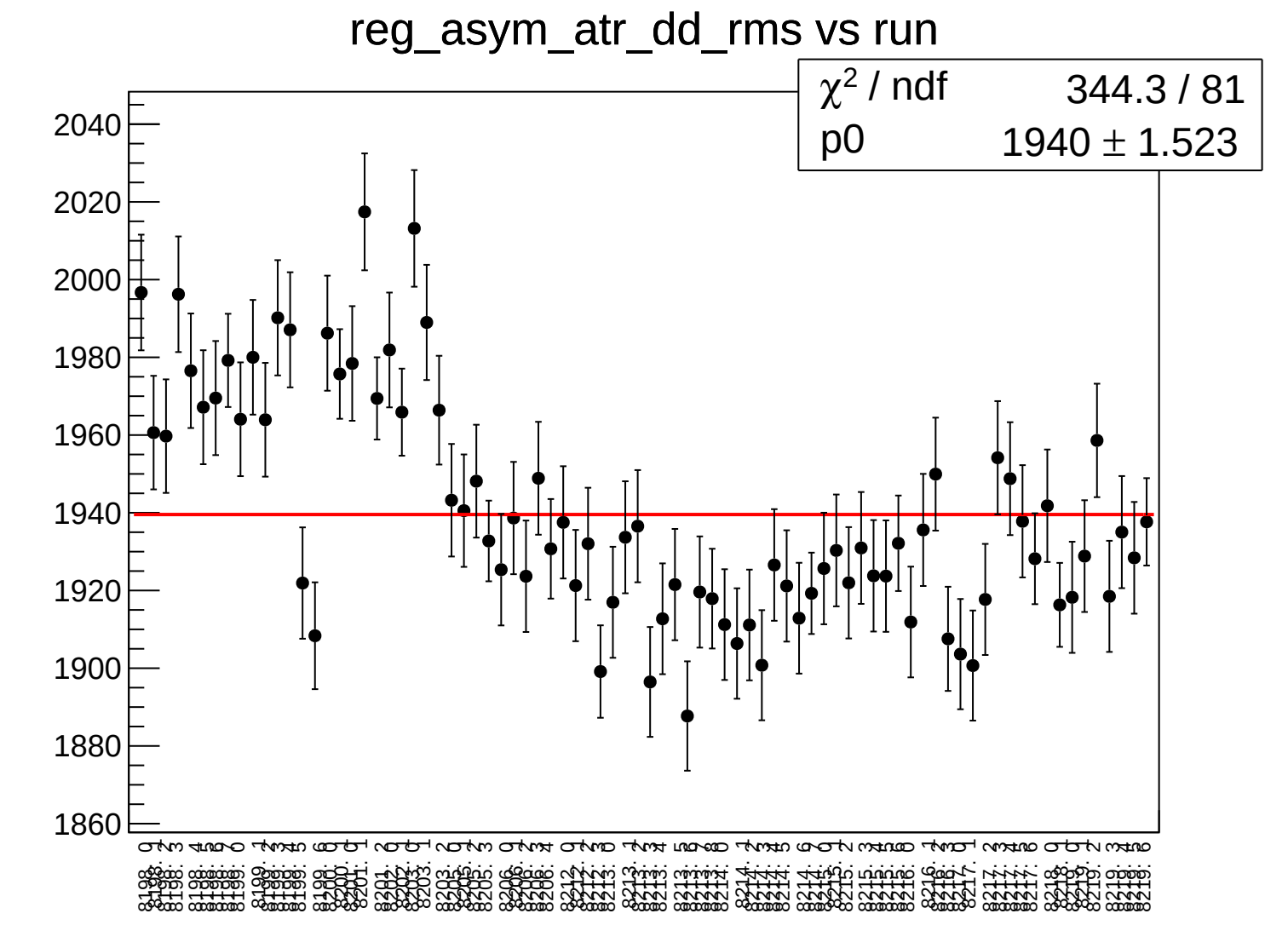

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 81
p0 241.3 ± 0.1967
550
500
450
400
350
300
250
200
150

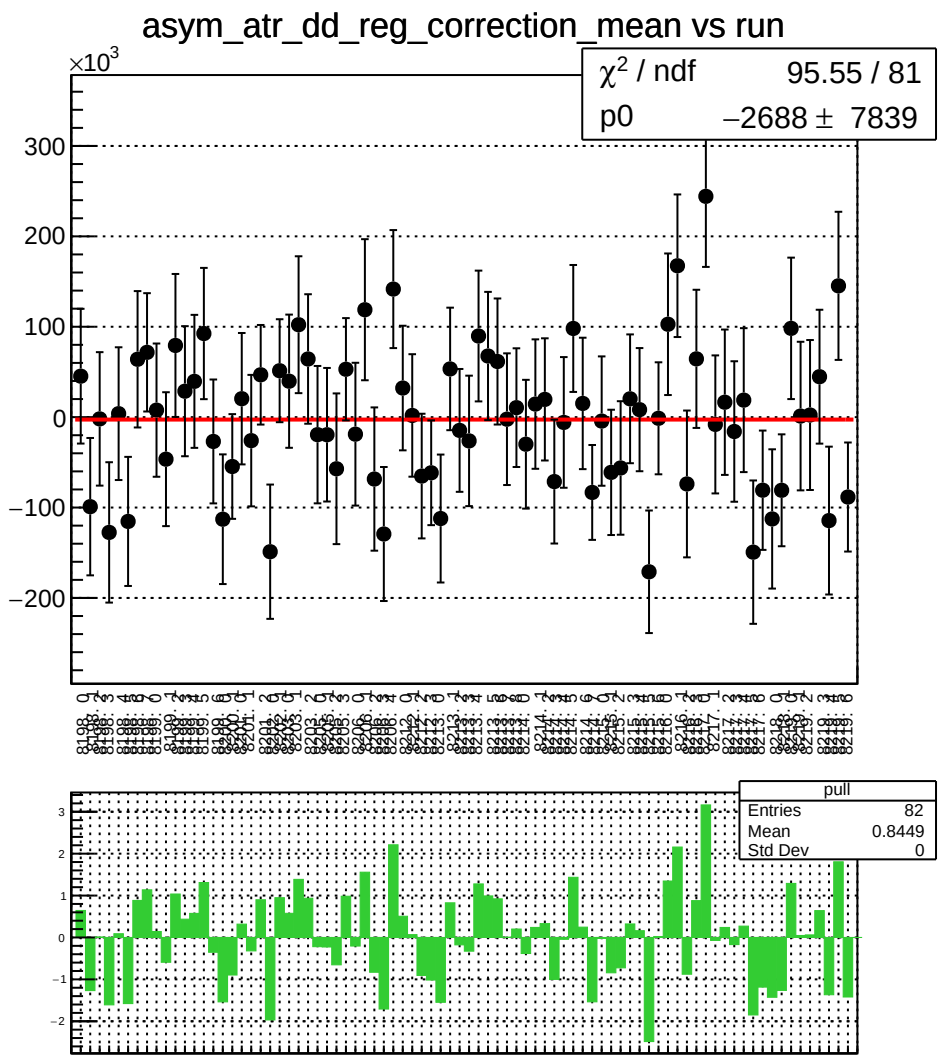

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.76 / 81
p0 1.545e−12 ± 7.659e−13
pull
Entries 82
Mean 210.5
Std Dev 0
pull1D
Entries 82
Mean 0.01841
Std Dev 1.004

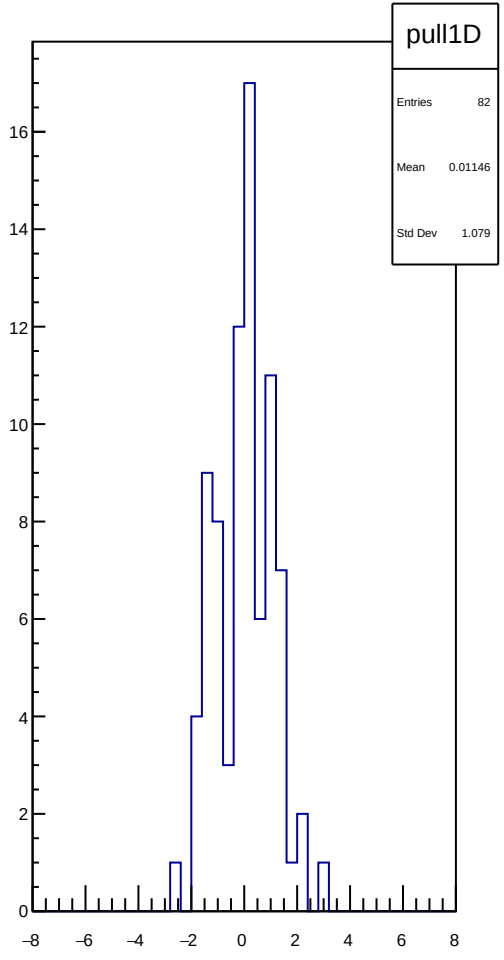

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.562e+05 / 81
p0 5.846e−10 ± 5.416e−13
2.5
2
1.5
1
0.5

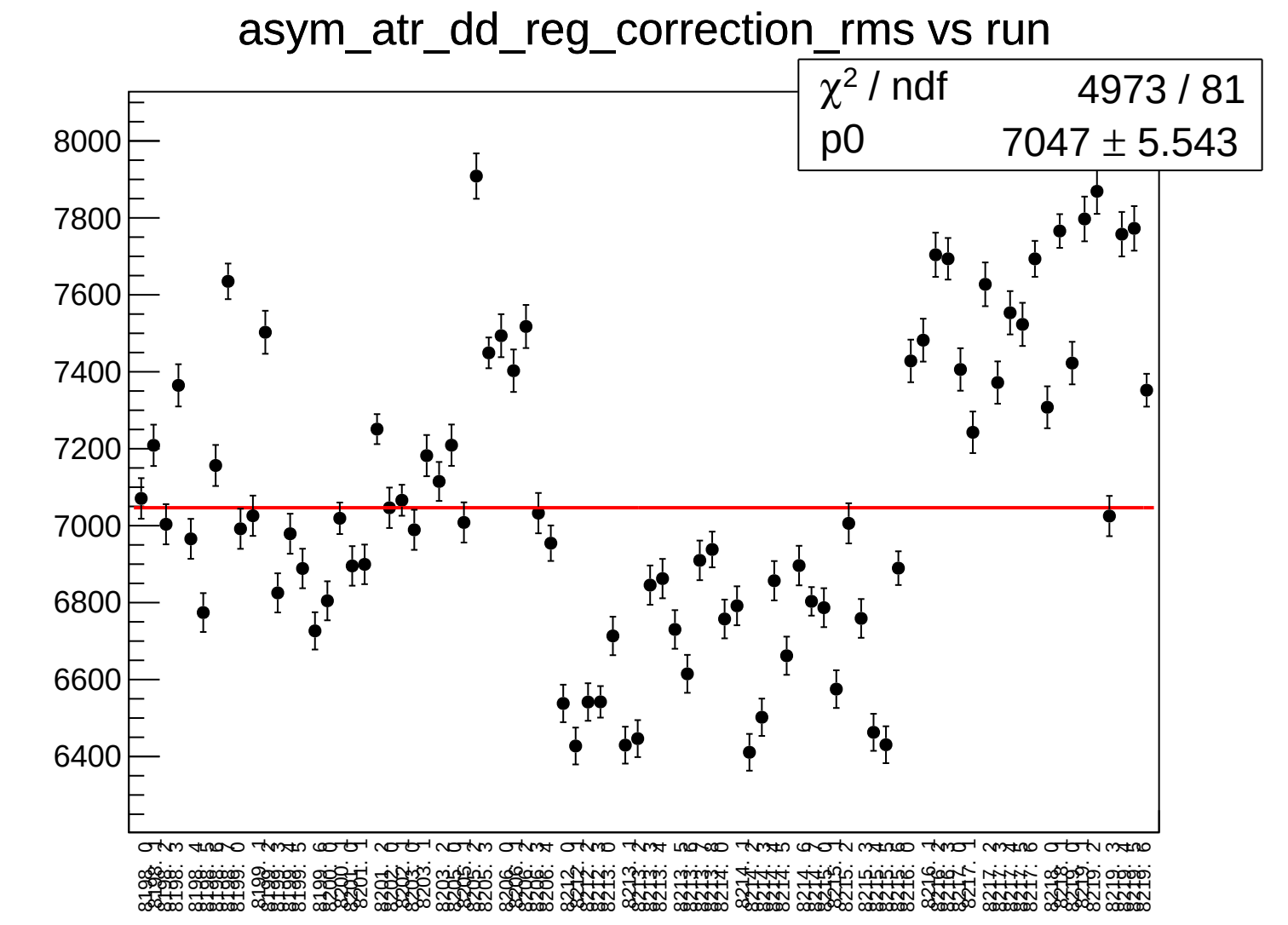

reg_asym_atr_dd_mean vs run
χ² / ndf 94.69 / 81
p0 −2654 ± 2154
×10³
pull
Entries 82
Mean −308.5
Std Dev 0

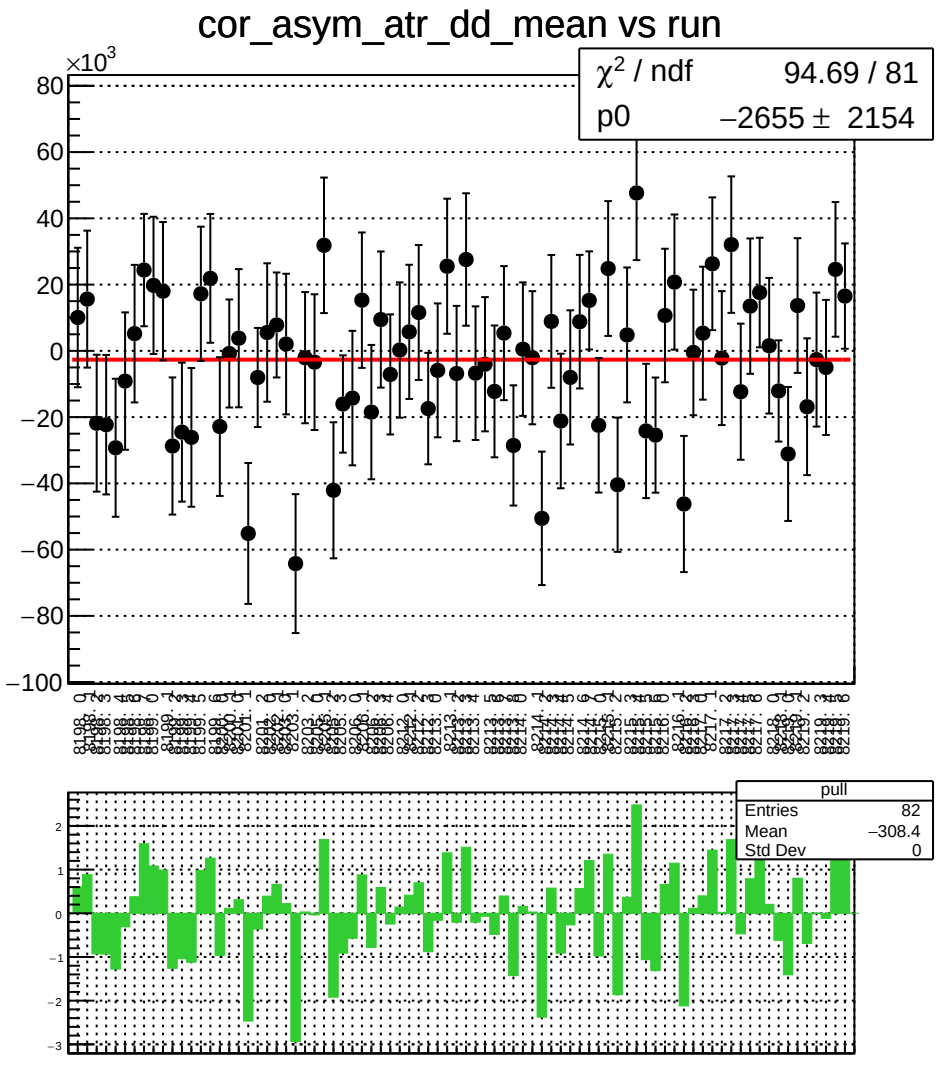

pull1D
Entries 82
Mean −0.00832
Std Dev 1.075

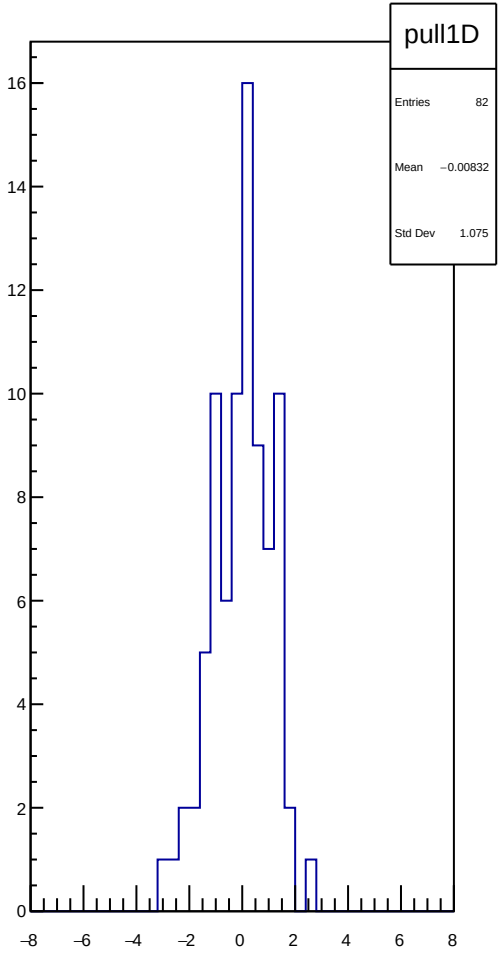

reg_asym_atr_dd_rms vs run
χ² / ndf 344.3 / 81
p0 1940 ± 1.523
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860

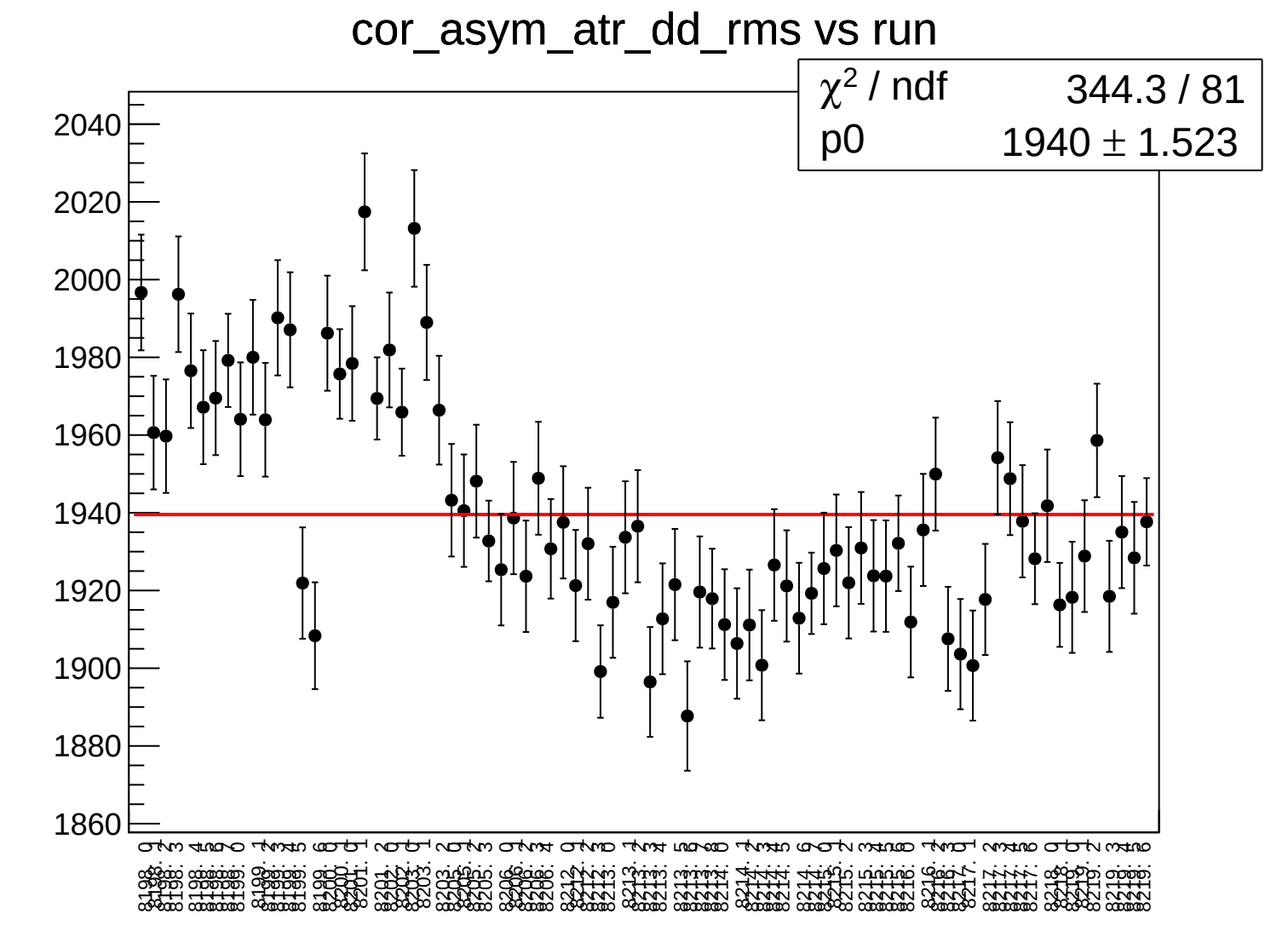

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 95.55 / 81
p0 −2688 ± 7839
300
200
100
0
−100
−200
pull
Entries 82
Mean 0.8449
Std Dev 0
3
2
1
0
−1
−2

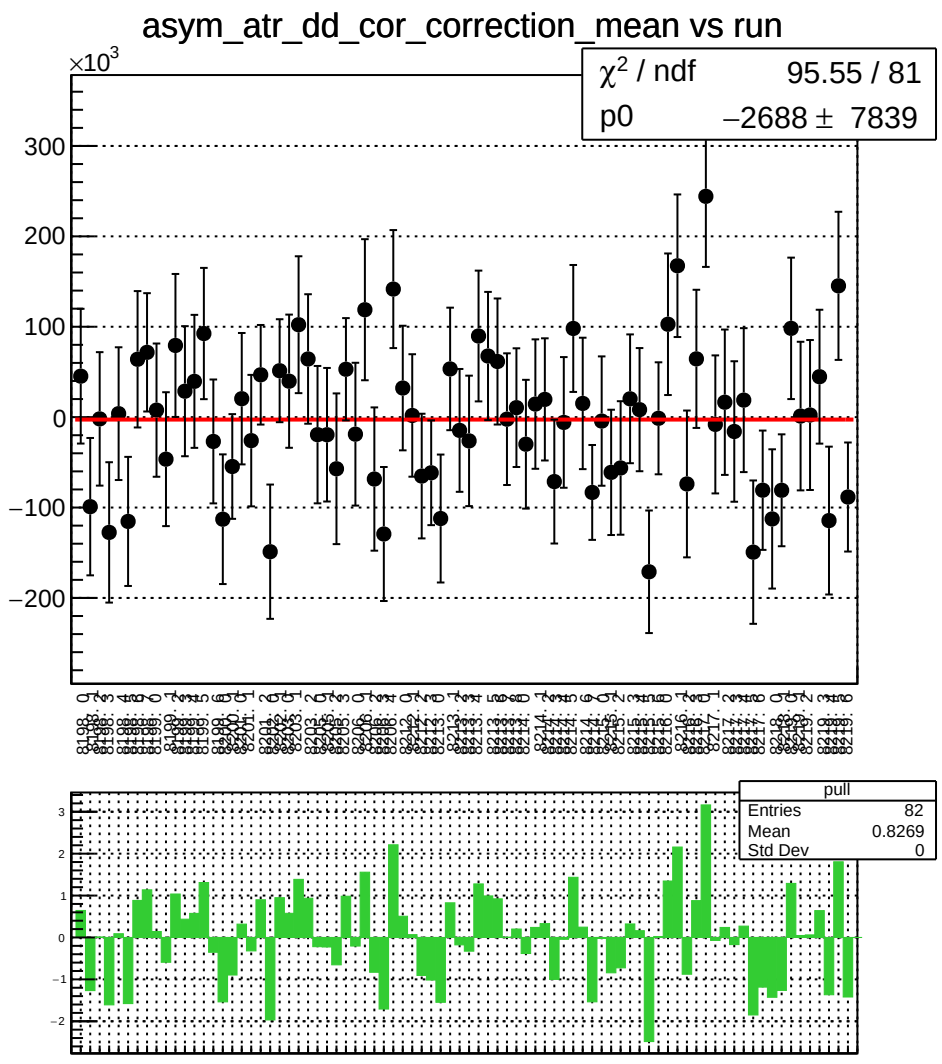

pull1D
Entries 82
Mean 0.01146
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

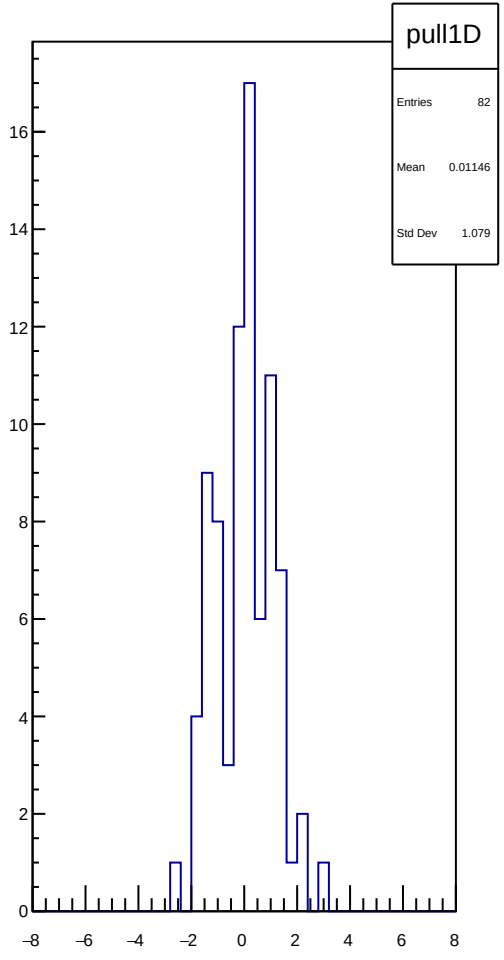

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 4973 / 81
p0 7047 ± 5.543
8000
7800
7600
7400
7200
7000
6800
6600
6400

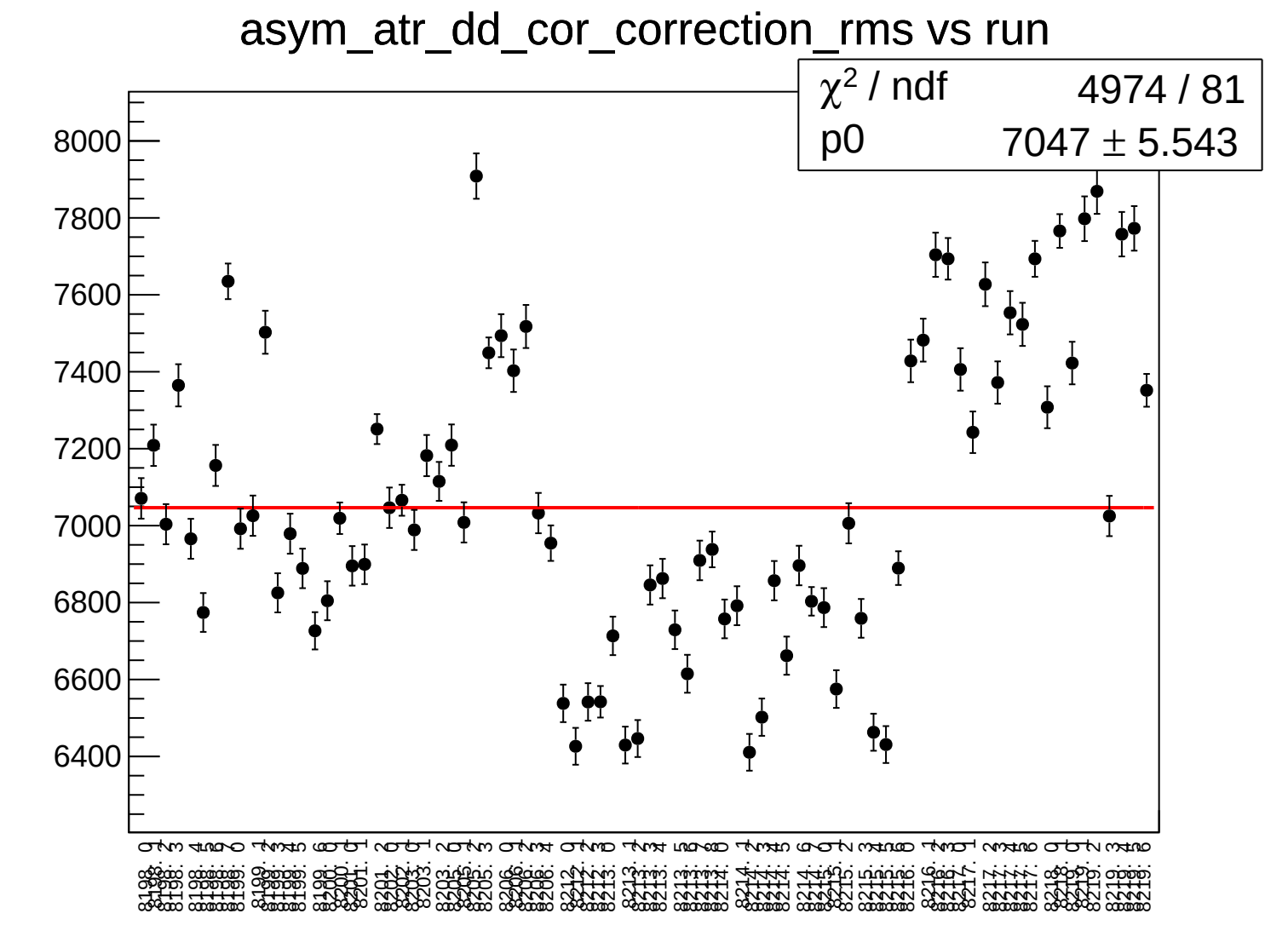

cor_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 94.69 / 81
p0 −2655 ± 2154
pull
Entries 82
Mean −308.4
Std Dev 0

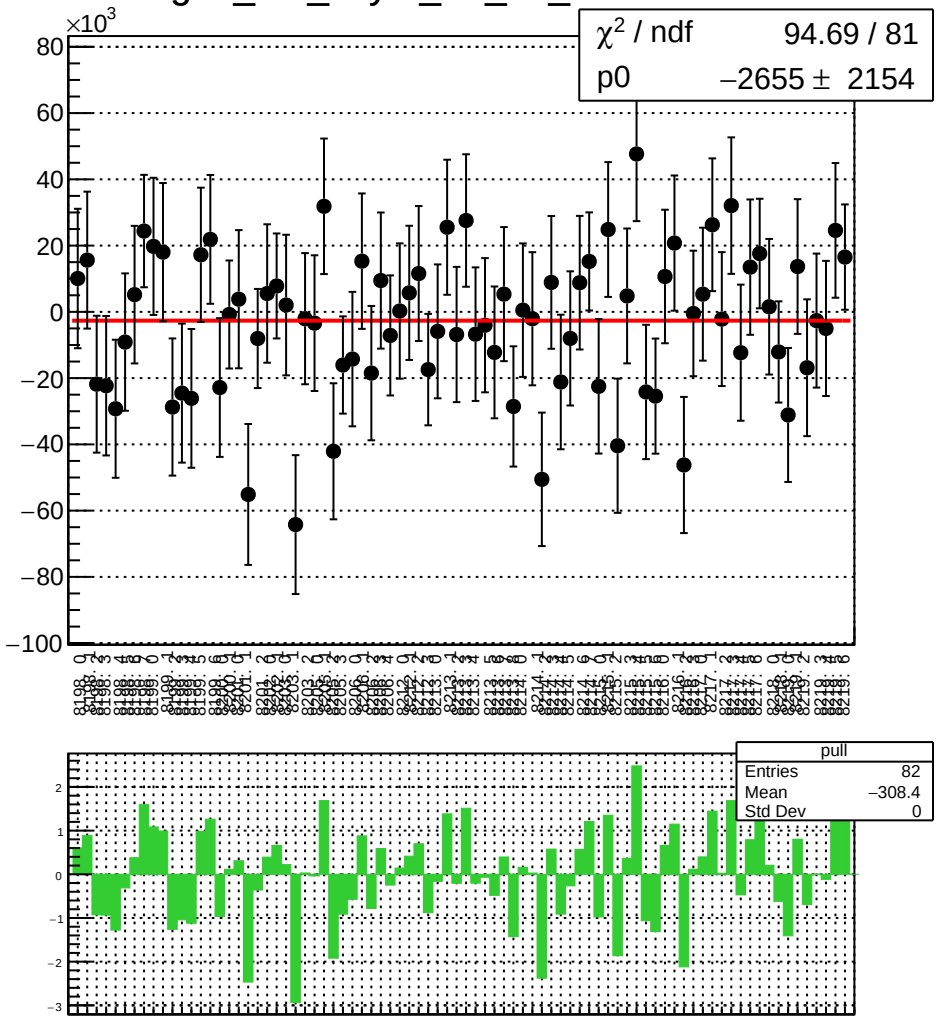

pull1D
Entries 82
Mean −0.00832
Std Dev 1.075

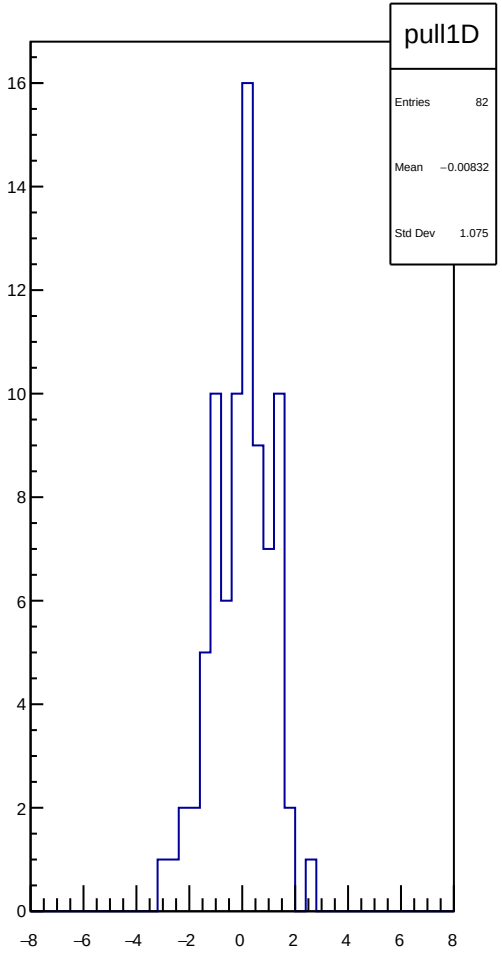

cor_asym_atr_dd_rms vs run
$\chi^2$ / ndf 344.3 / 81
p0 1940 ± 1.523
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860

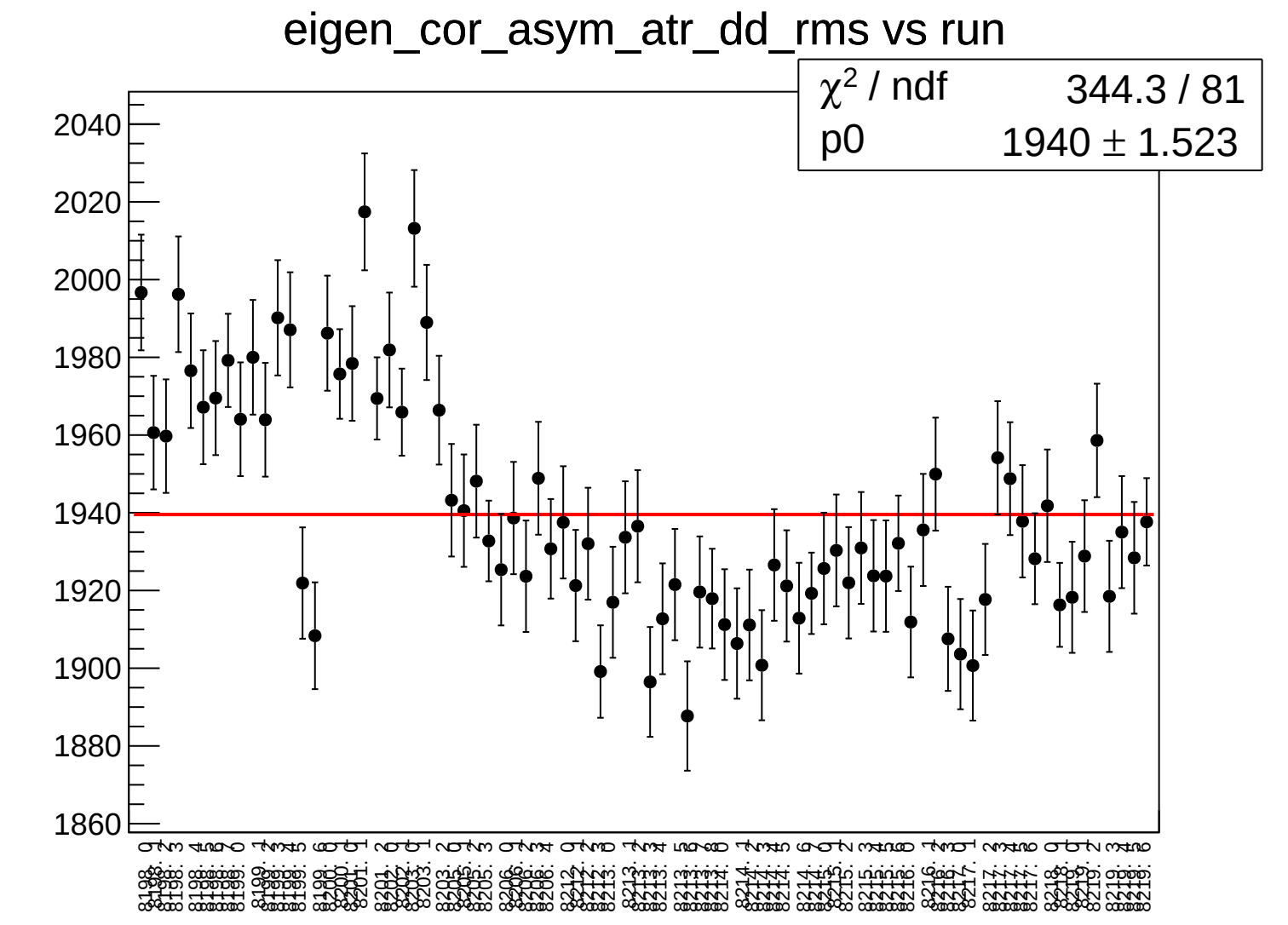

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 95.55 / 81
p0 −2688 ± 7839
300
200
100
0
−100
−200
pull
Entries 82
Mean 0.8269
Std Dev 0
3
2
1
0
−1
−2

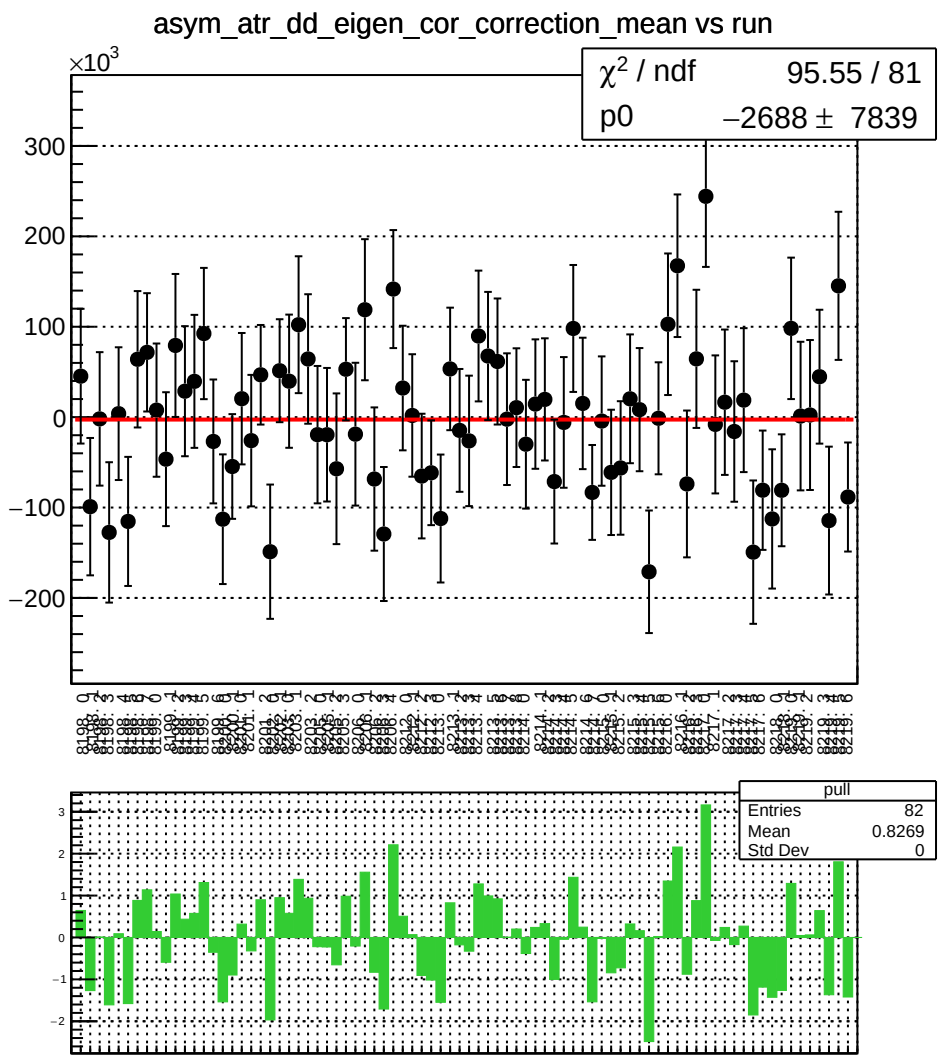

pull1D
Entries 82
Mean 0.01146
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

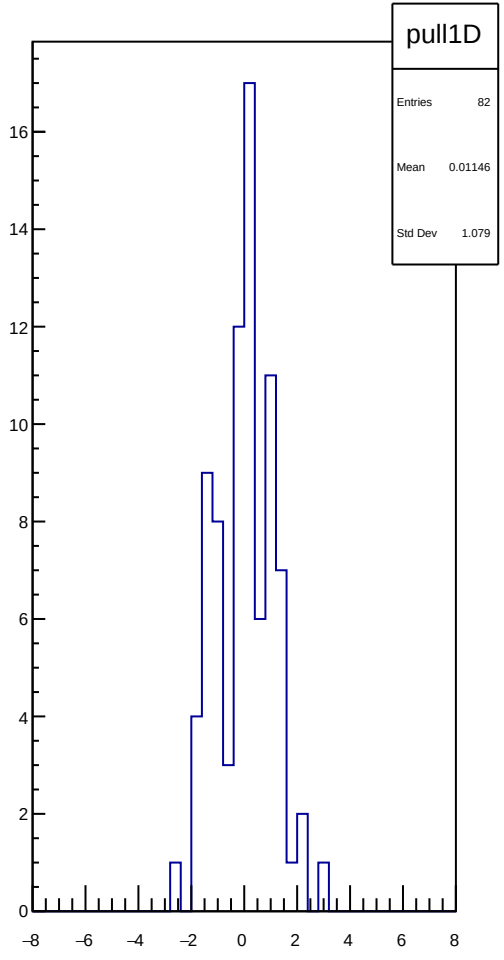

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 4974 / 81
p0 7047 ± 5.543
8000
7800
7600
7400
7200
7000
6800
6600
6400

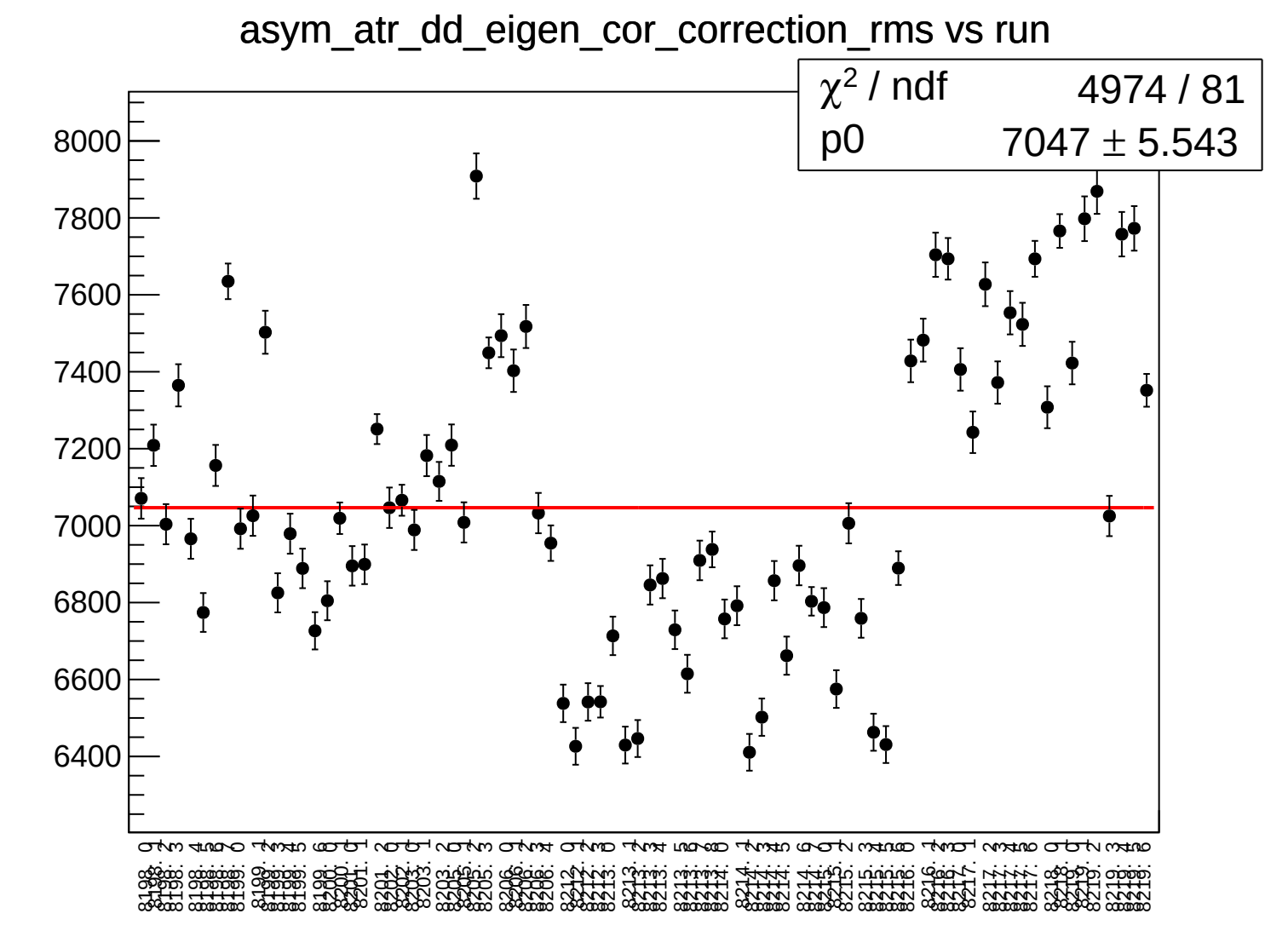

eigen_cor_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 94.69 / 81
p0 −2655 ± 2154
pull
Entries 82
Mean −308.4
Std Dev 0

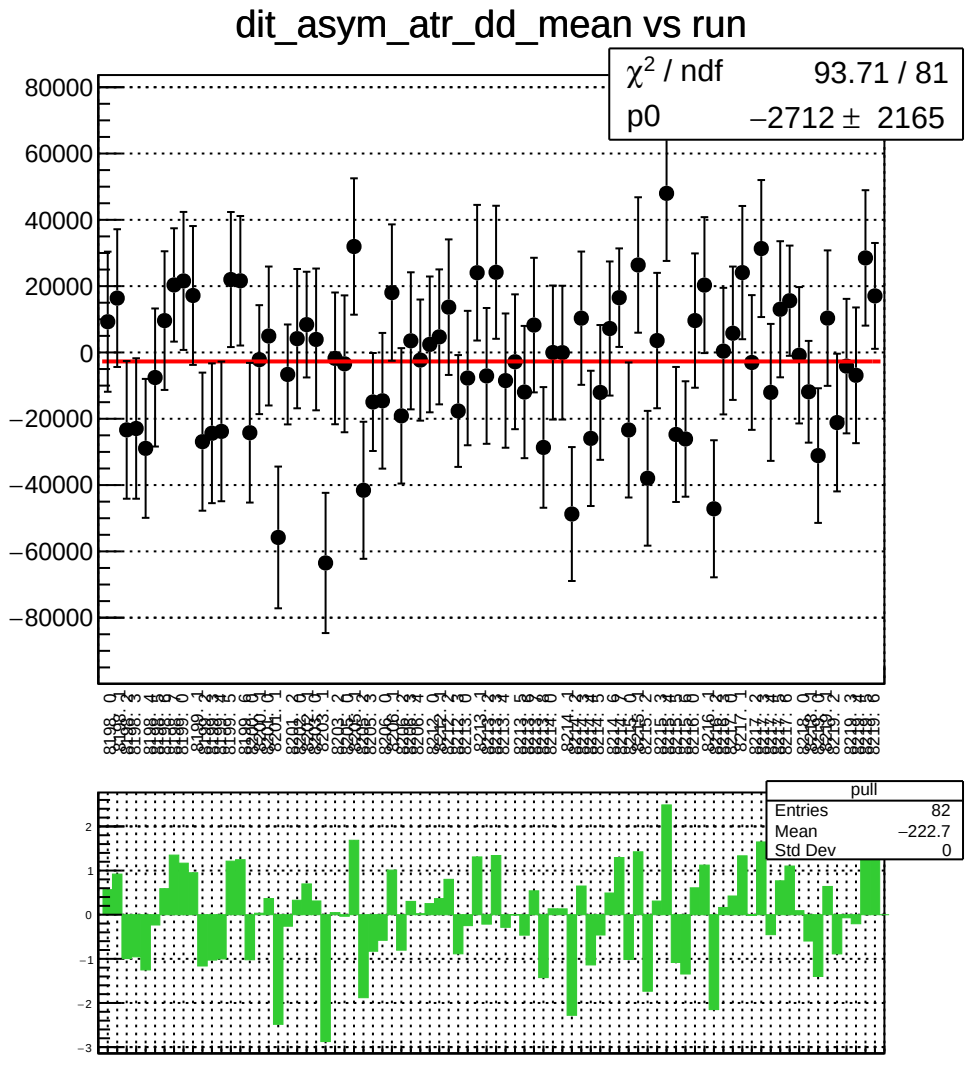

pull1D
Entries 82
Mean −0.00832
Std Dev 1.075

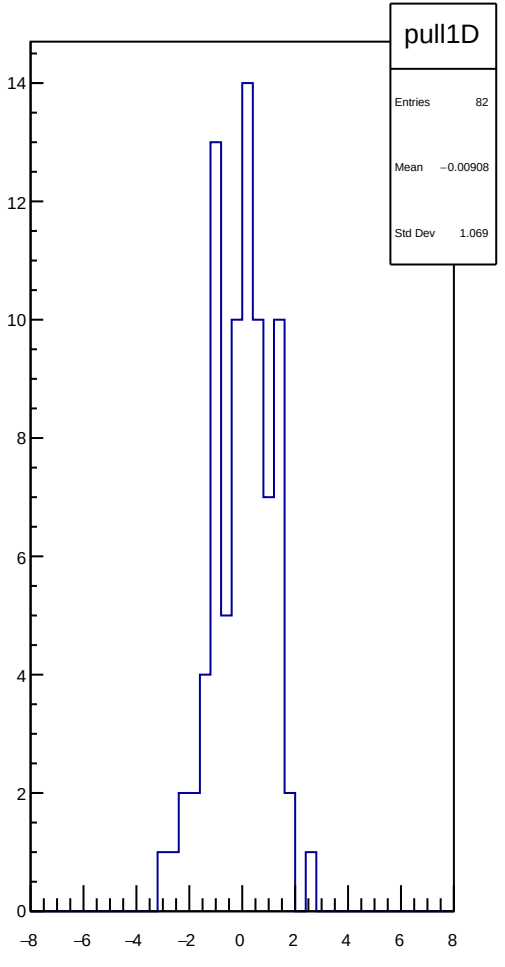

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 344.3 / 81
p0 1940 ± 1.523
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860

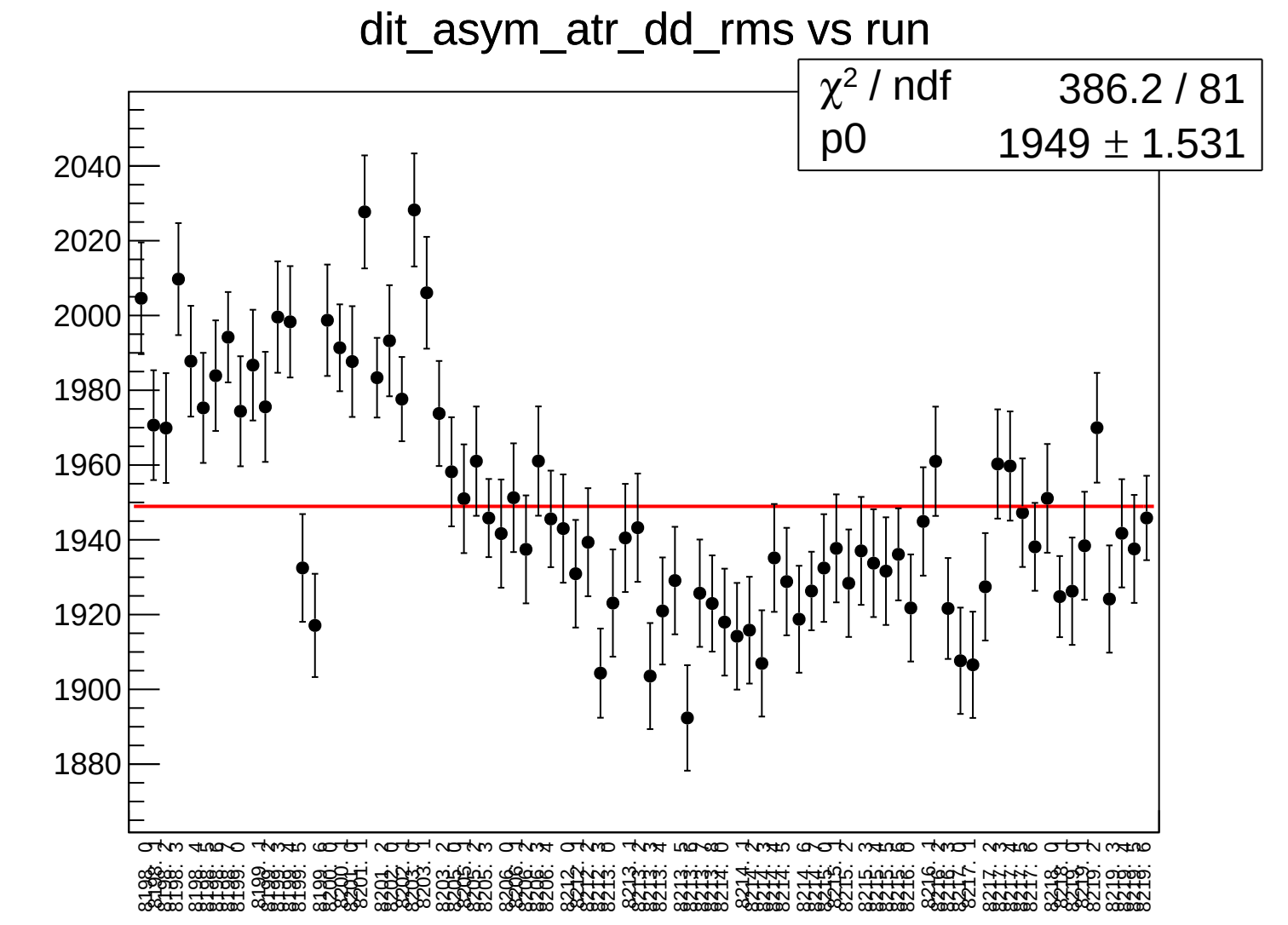

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.55 / 81
p0 −2688 ± 7839
300
200
100
0
−100
−200
pull
Entries 82
Mean 0.8269
Std Dev 0
3
2
1
0
−1
−2

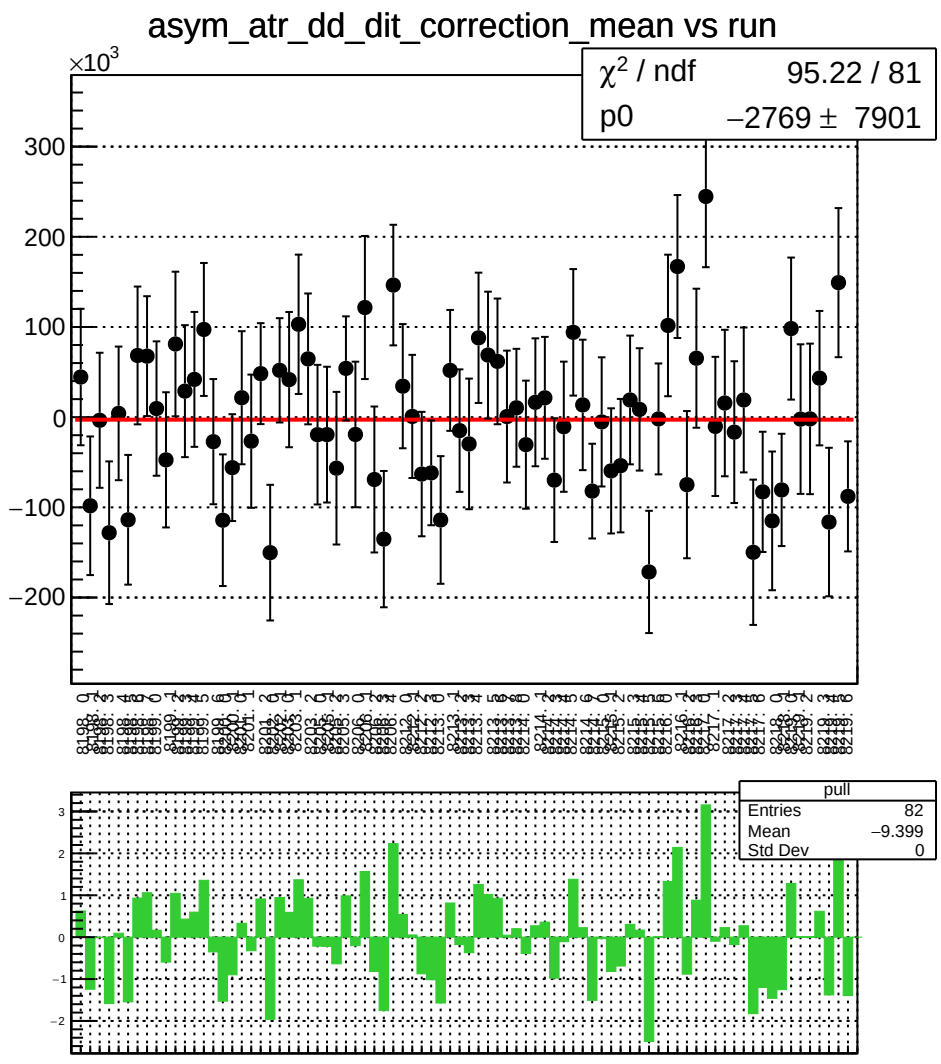

pull1D
Entries 82
Mean 0.01146
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

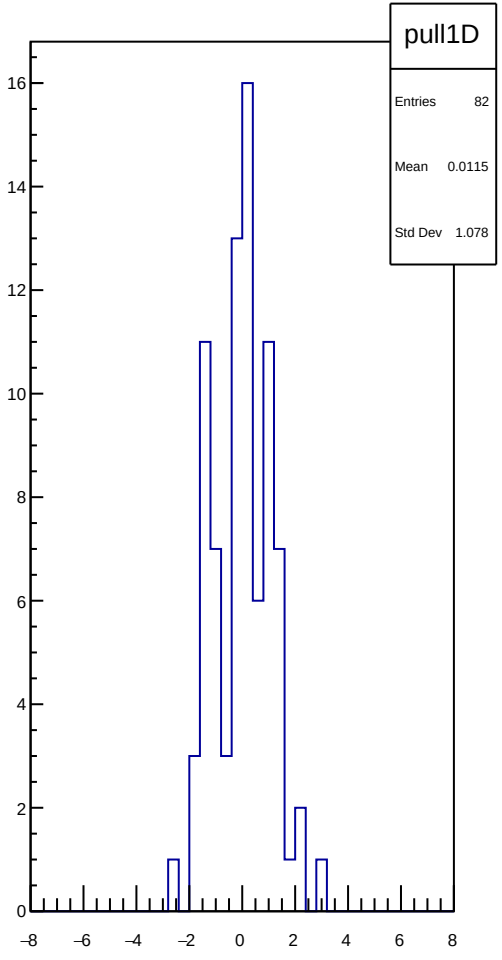

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 4974 / 81
p0 7047 ± 5.543
8000
7800
7600
7400
7200
7000
6800
6600
6400

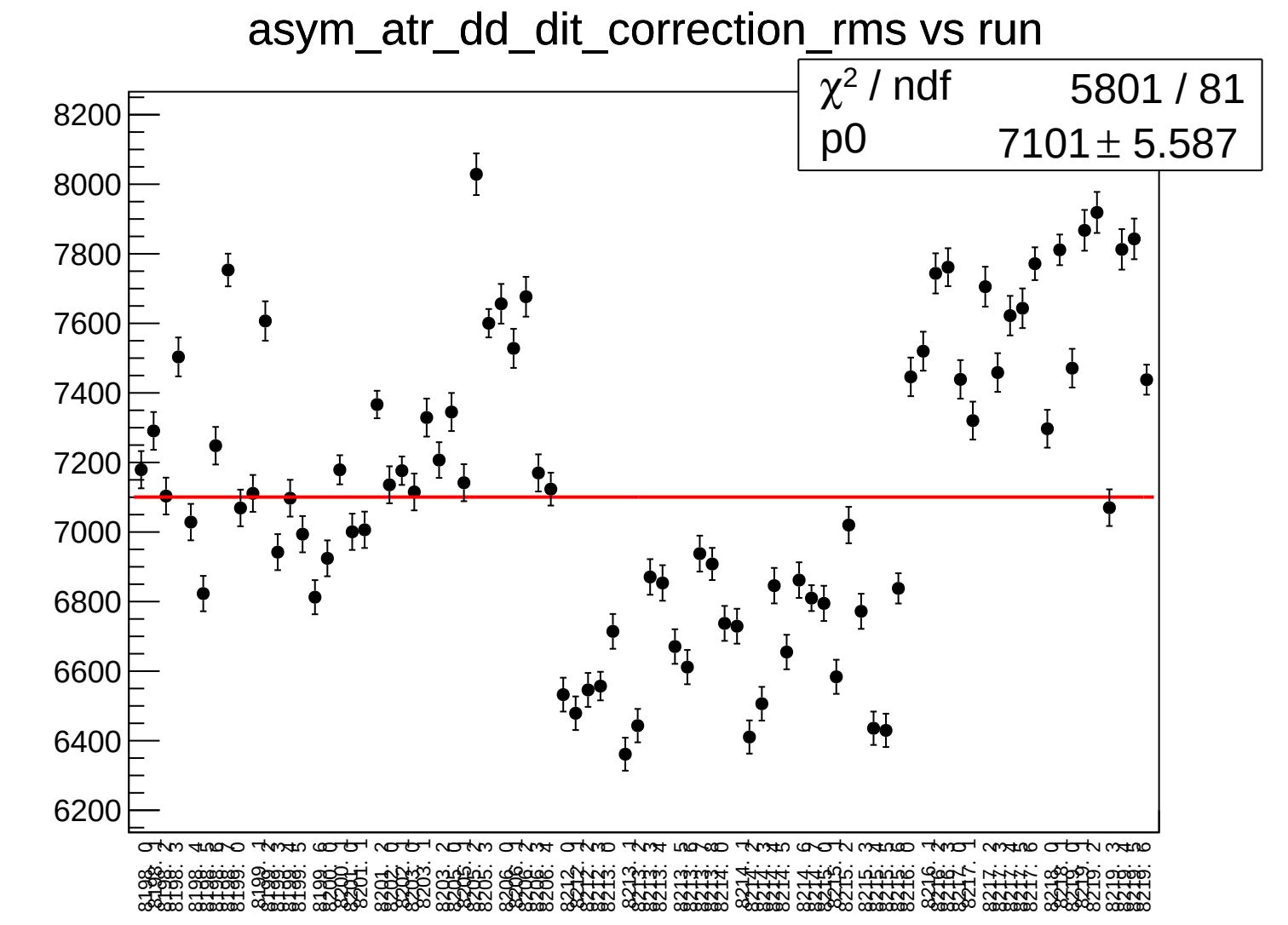

dit_asym_atr_dd_mean vs run
χ² / ndf 93.71 / 81
p0 −2712 ± 2165
pull
Entries 82
Mean −222.7
Std Dev 0

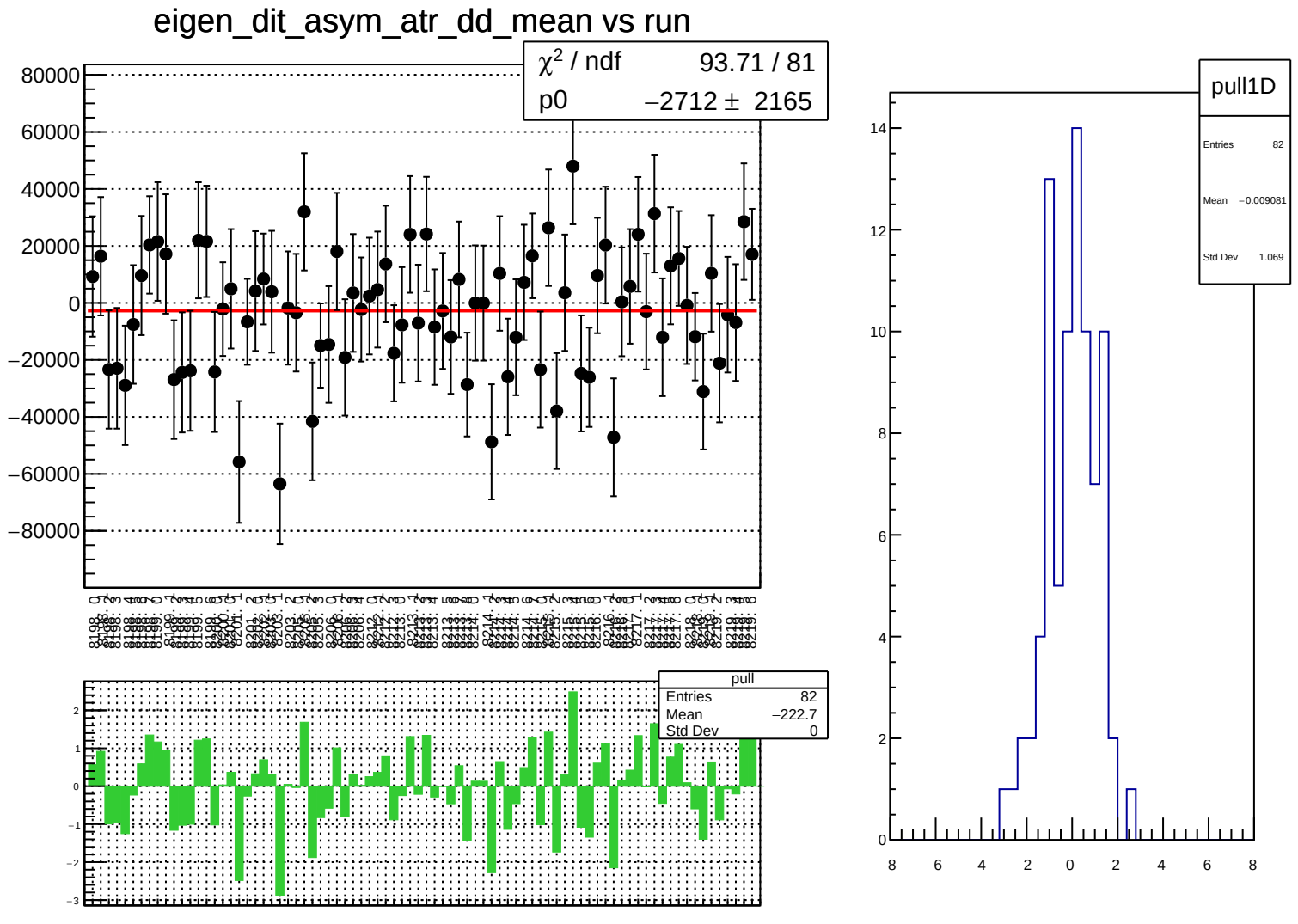

pull1D
Entries 82
Mean −0.00908
Std Dev 1.069

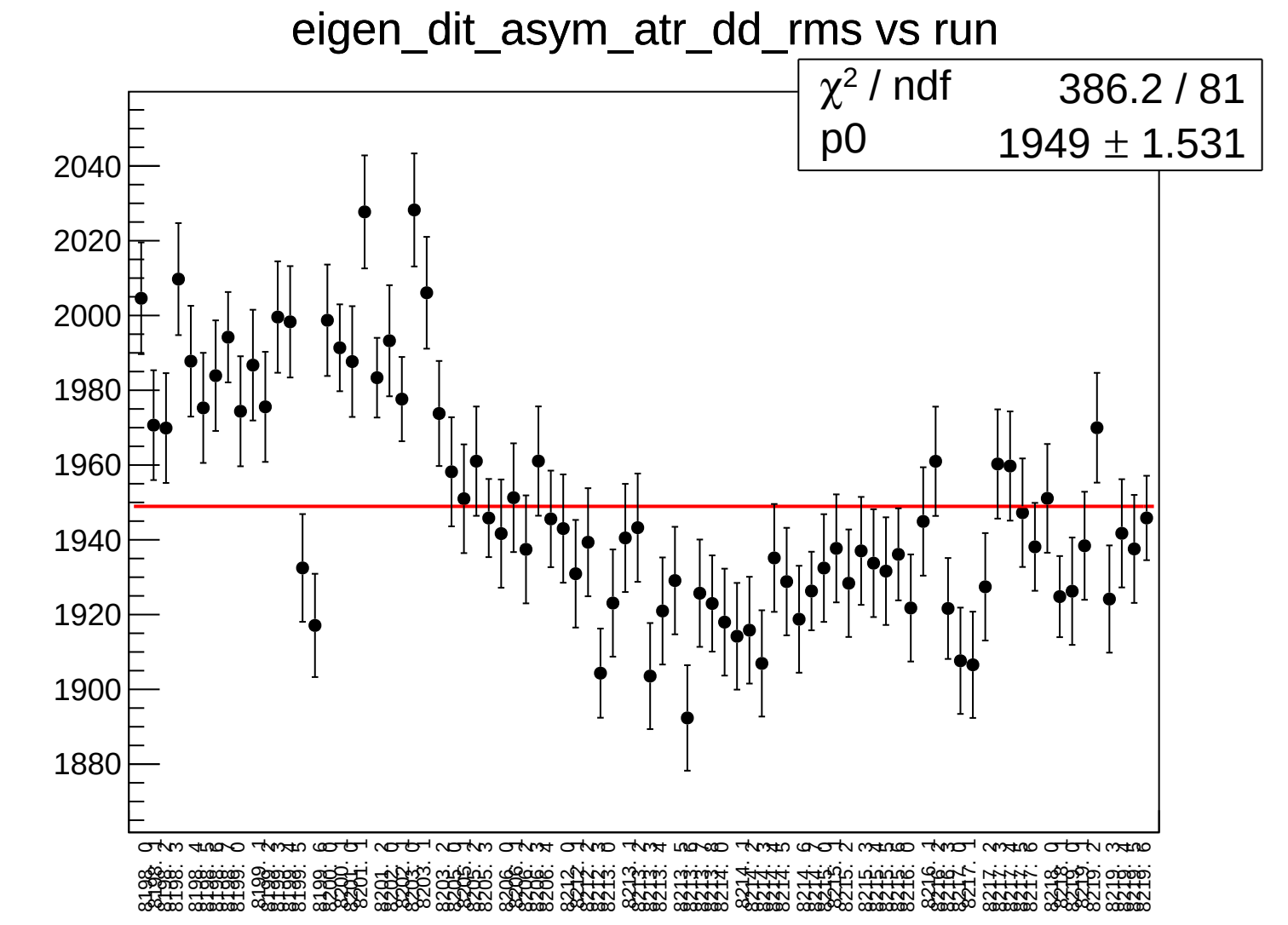

dit_asym_atr_dd_rms vs run
χ² / ndf 386.2 / 81
p0 1949 ± 1.531
2040
2020
2000
1980
1960
1940
1920
1900
1880

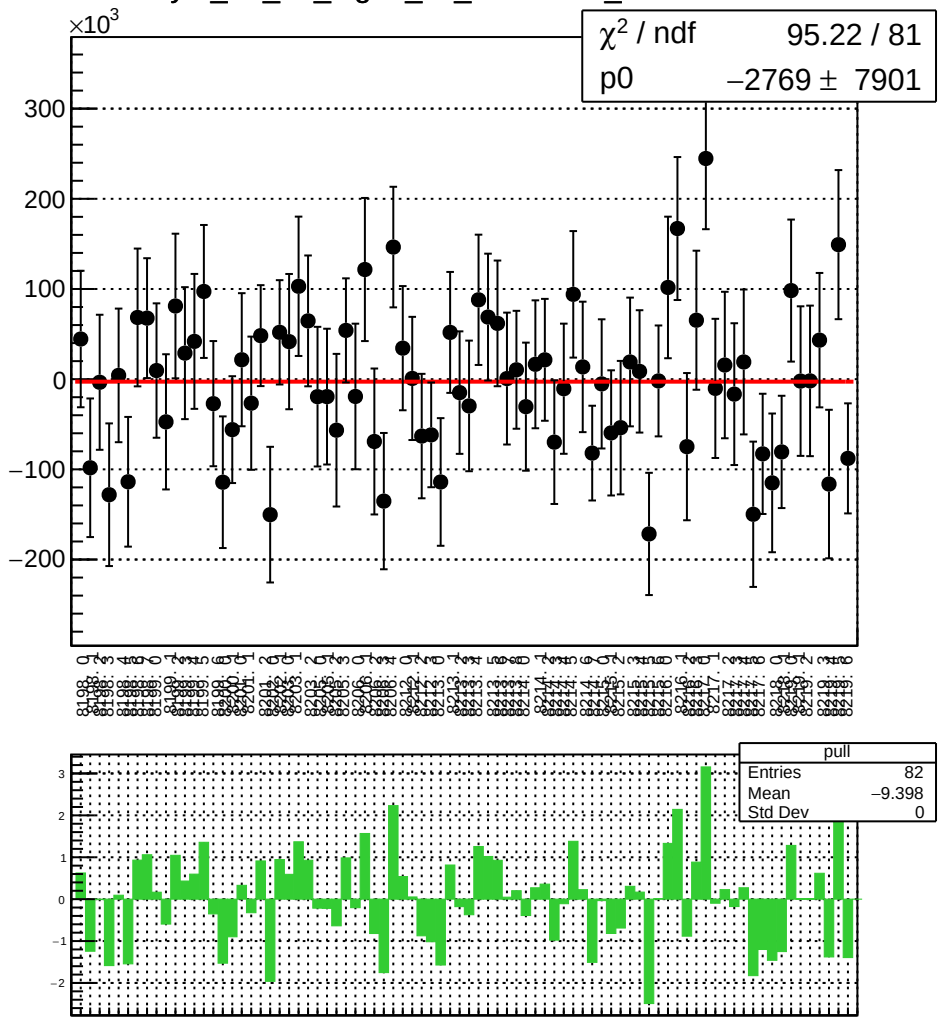

asym_atr_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.22 / 81
p0 −2769 ± 7901
300
200
100
0
−100
−200
pull
Entries 82
Mean −9.399
Std Dev 0
3
2
1
0
−1
−2

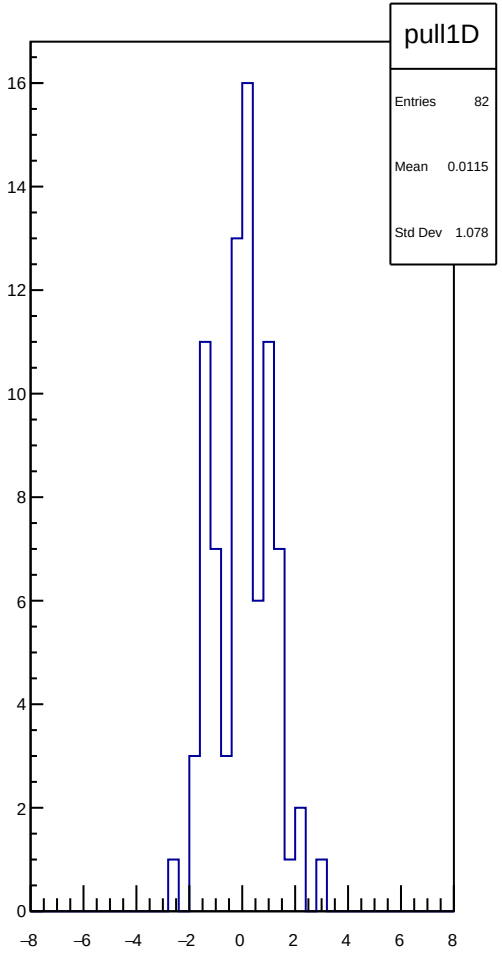

pull1D
Entries 82
Mean 0.0115
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

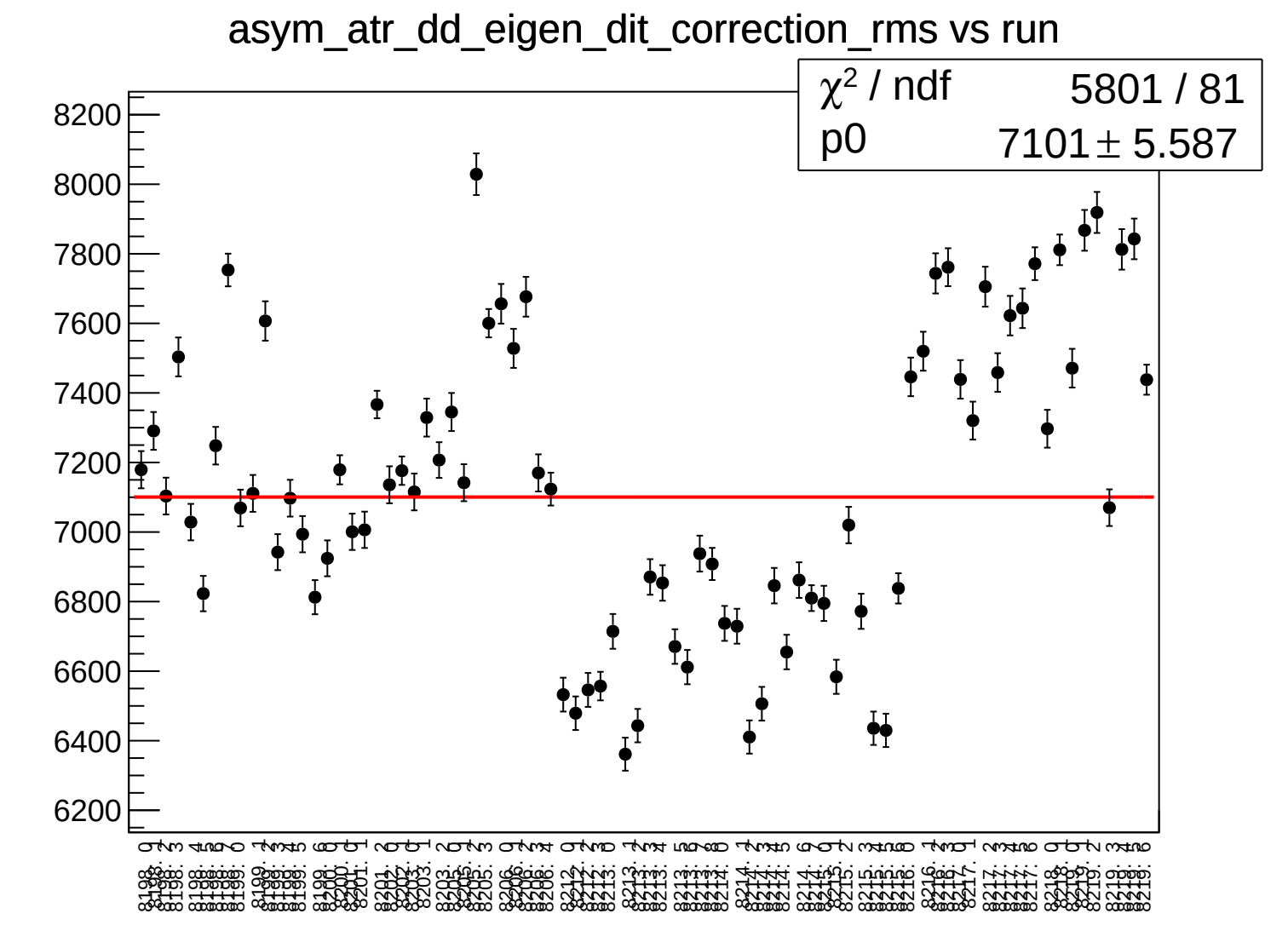

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 5801 / 81
p0 7101 ± 5.587
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

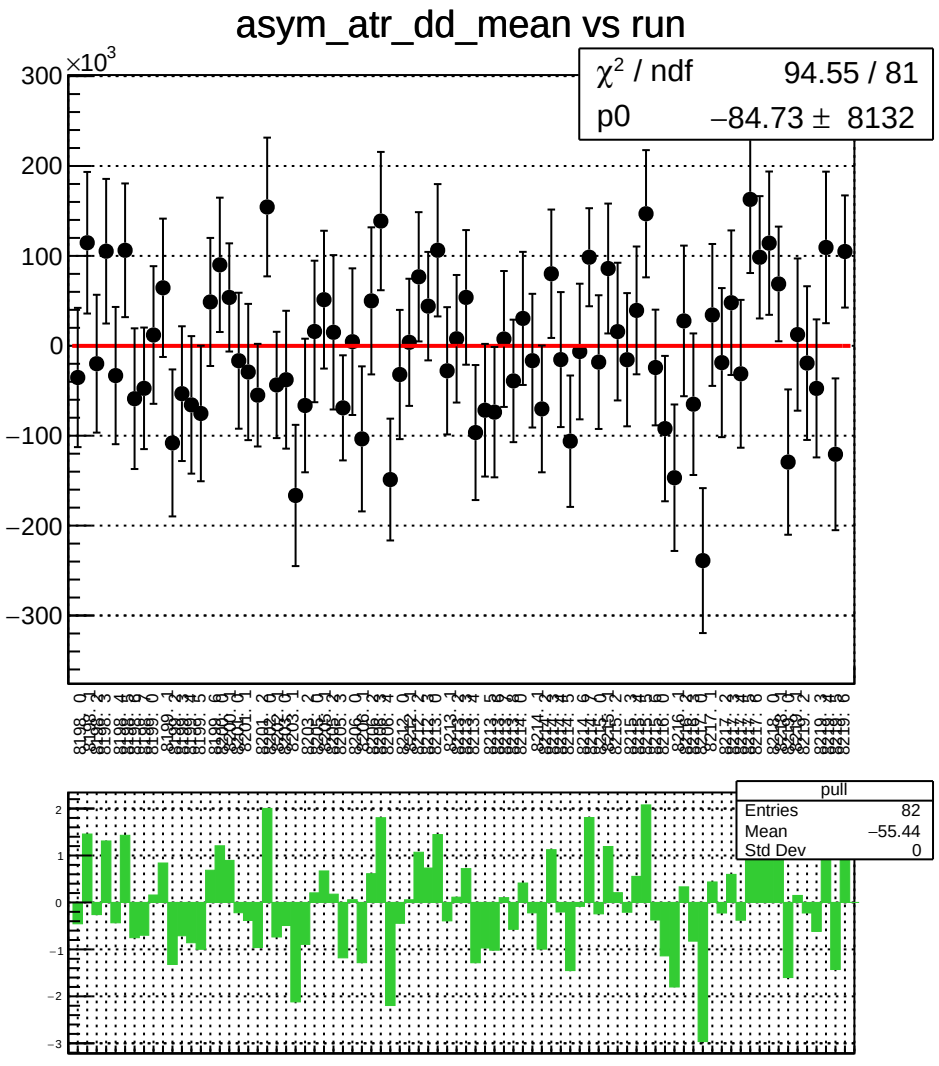

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 93.71 / 81
p0 −2712 ± 2165
pull
Entries 82
Mean −222.7
Std Dev 0
pull1D
Entries 82
Mean −0.009081
Std Dev 1.069

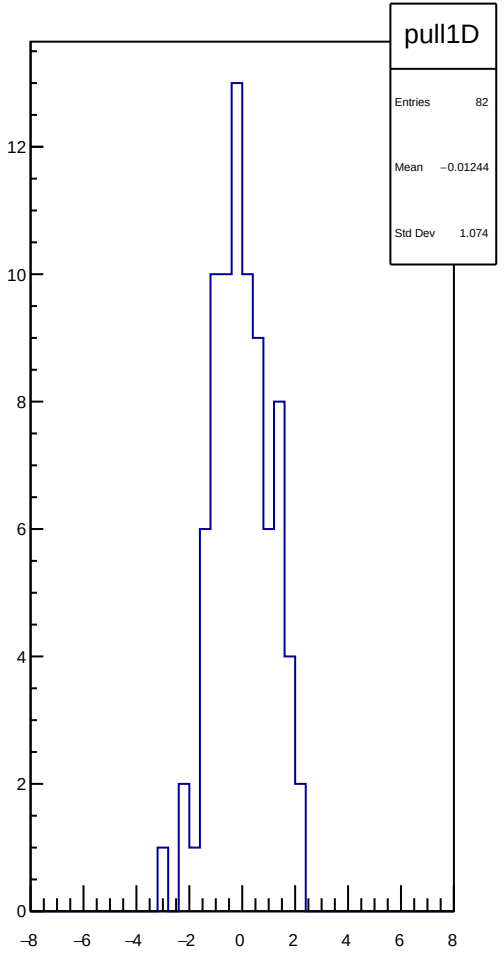

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 386.2 / 81
p0 1949 ± 1.531
2040
2020
2000
1980
1960
1940
1920
1900
1880

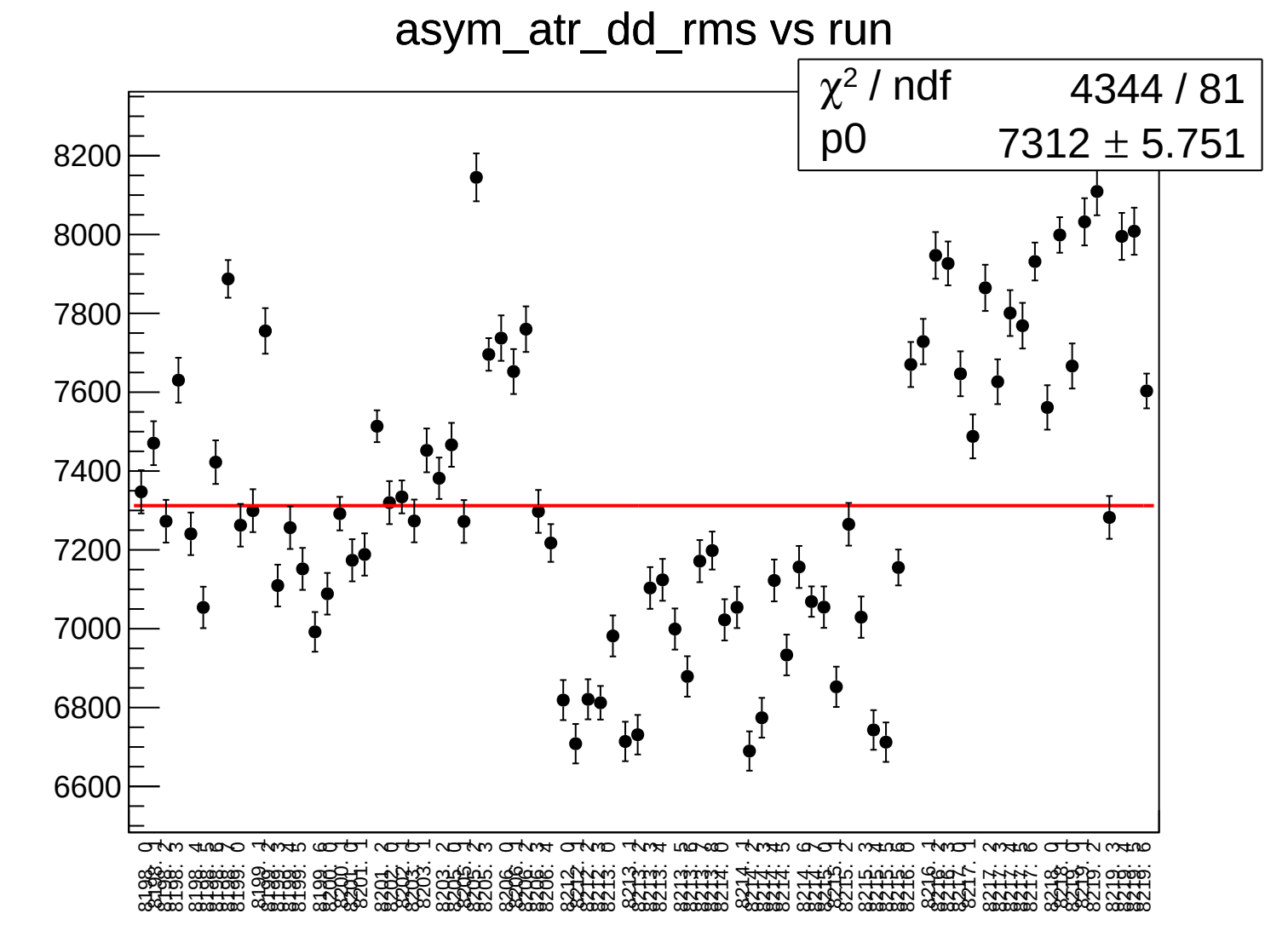

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.22 / 81
p0 −2769 ± 7901
300
200
100
0
−100
−200
pull
Entries 82
Mean −9.398
Std Dev 0
3
2
1
0
−1
−2

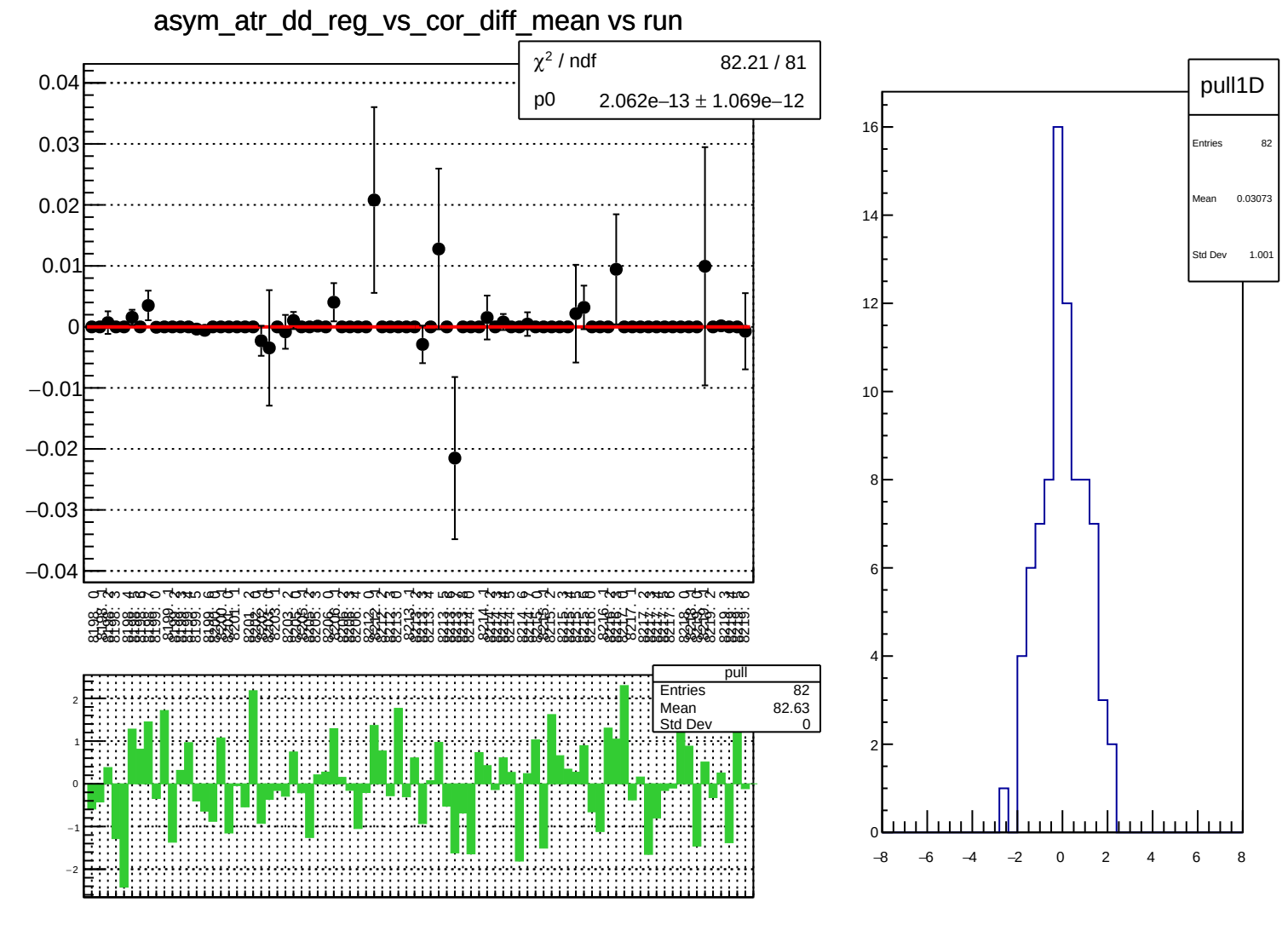

pull1D
Entries 82
Mean 0.0115
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

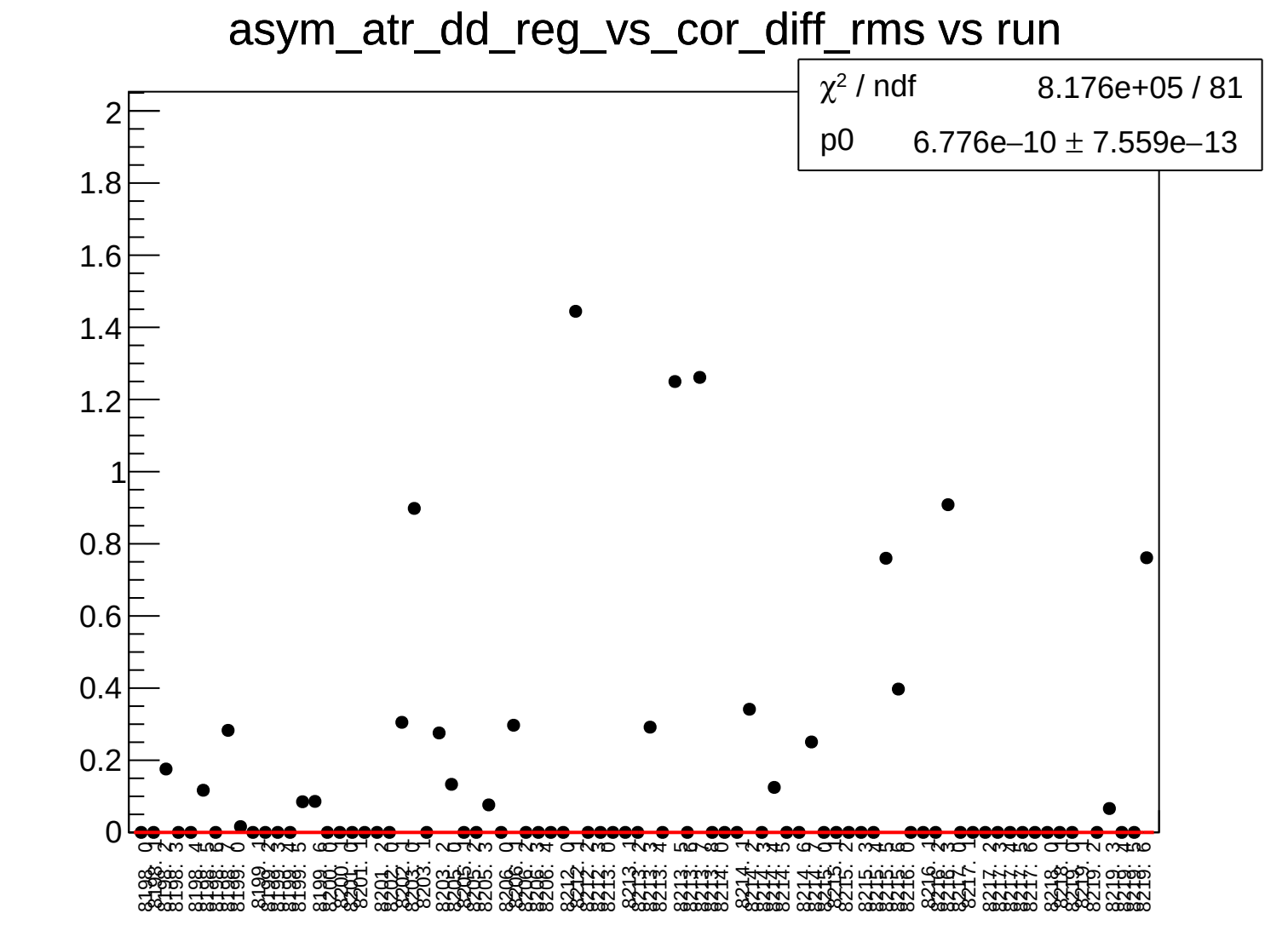

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 5801 / 81
p0 7101 ± 5.587
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

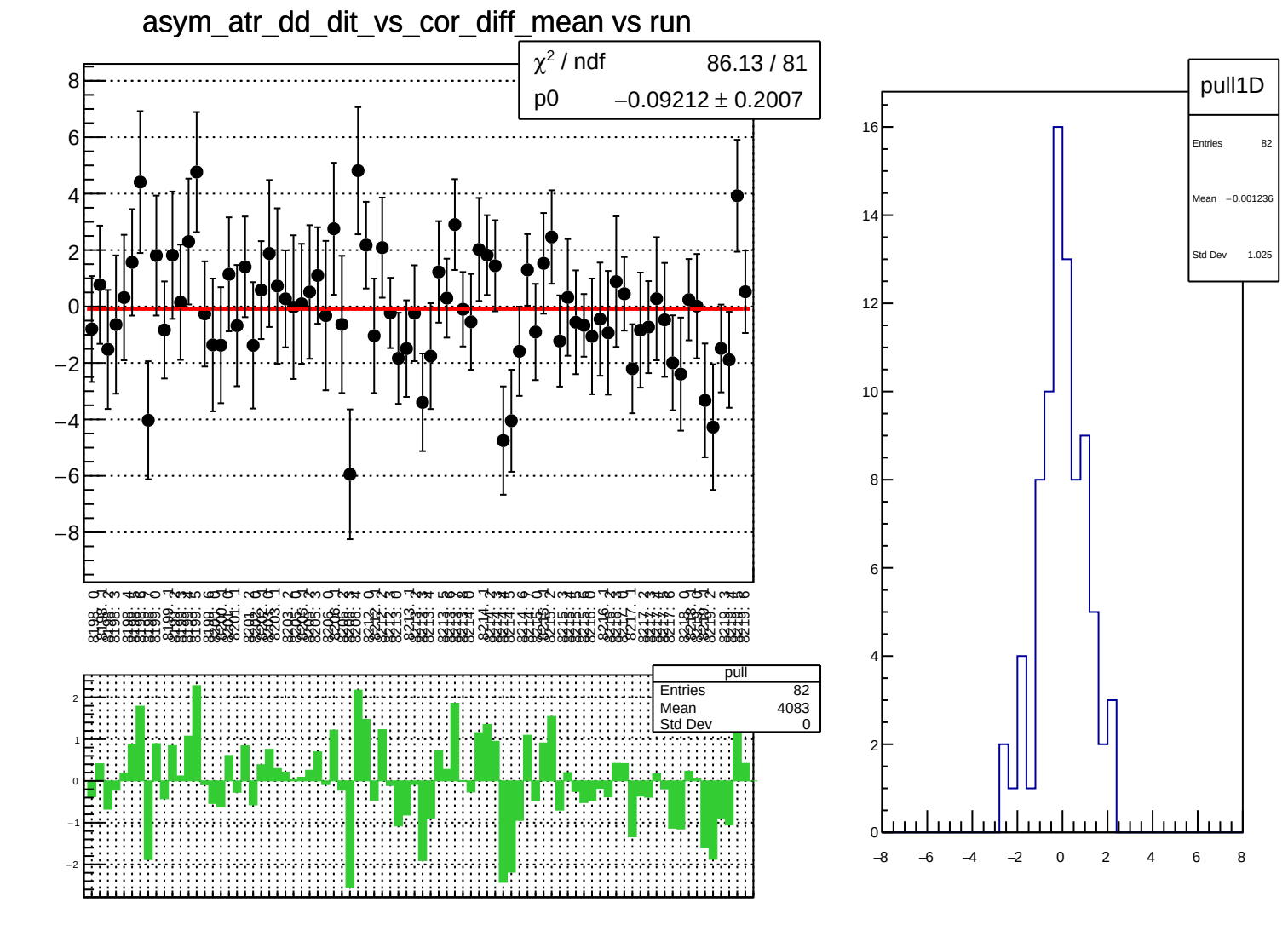

asym_atr_dd_mean vs run
χ² / ndf 94.55 / 81
p0 −84.73 ± 8132
×10³
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −55.44
Std Dev 0
2
1
0
−1
−2
−3

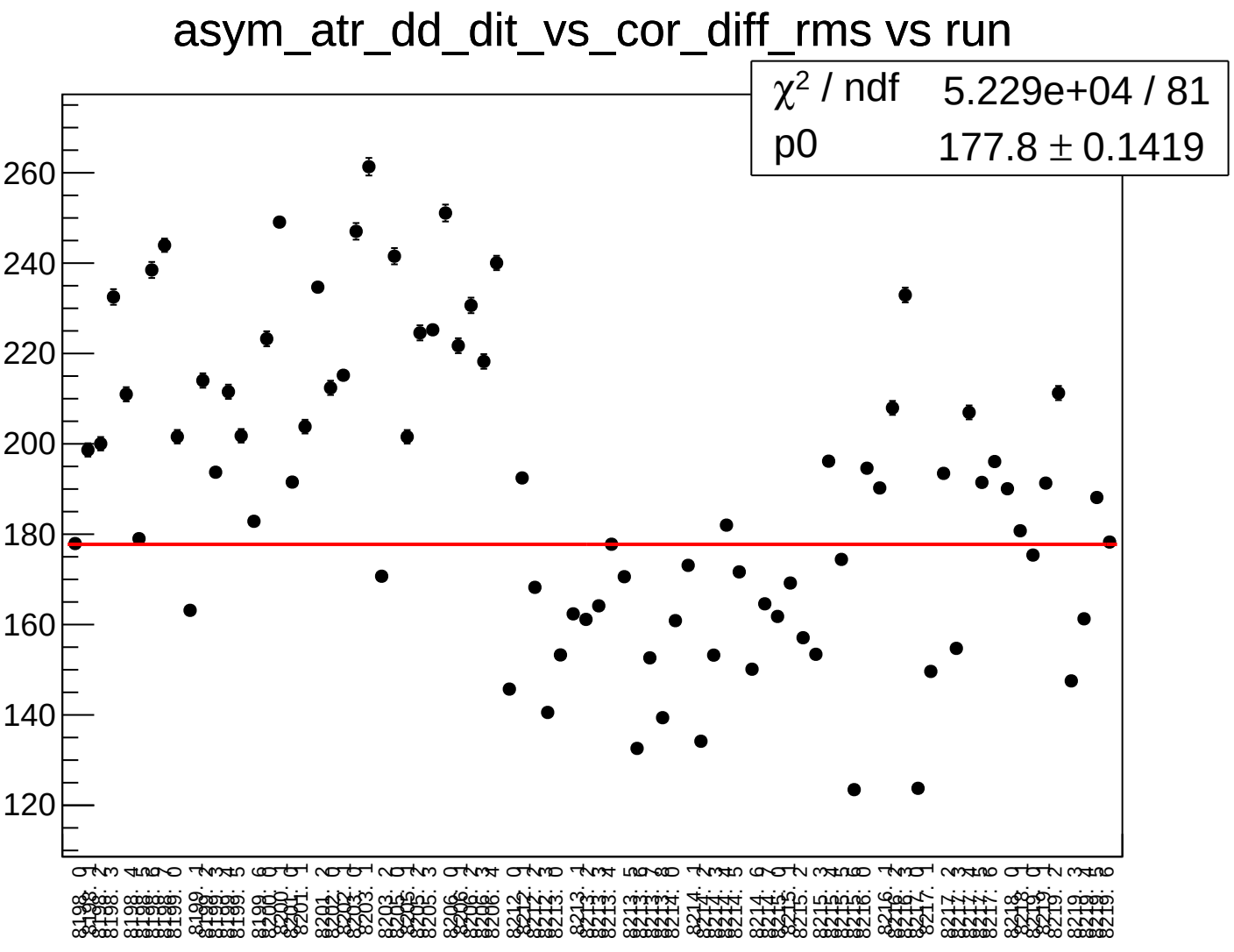

pull1D
Entries 82
Mean −0.01244
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

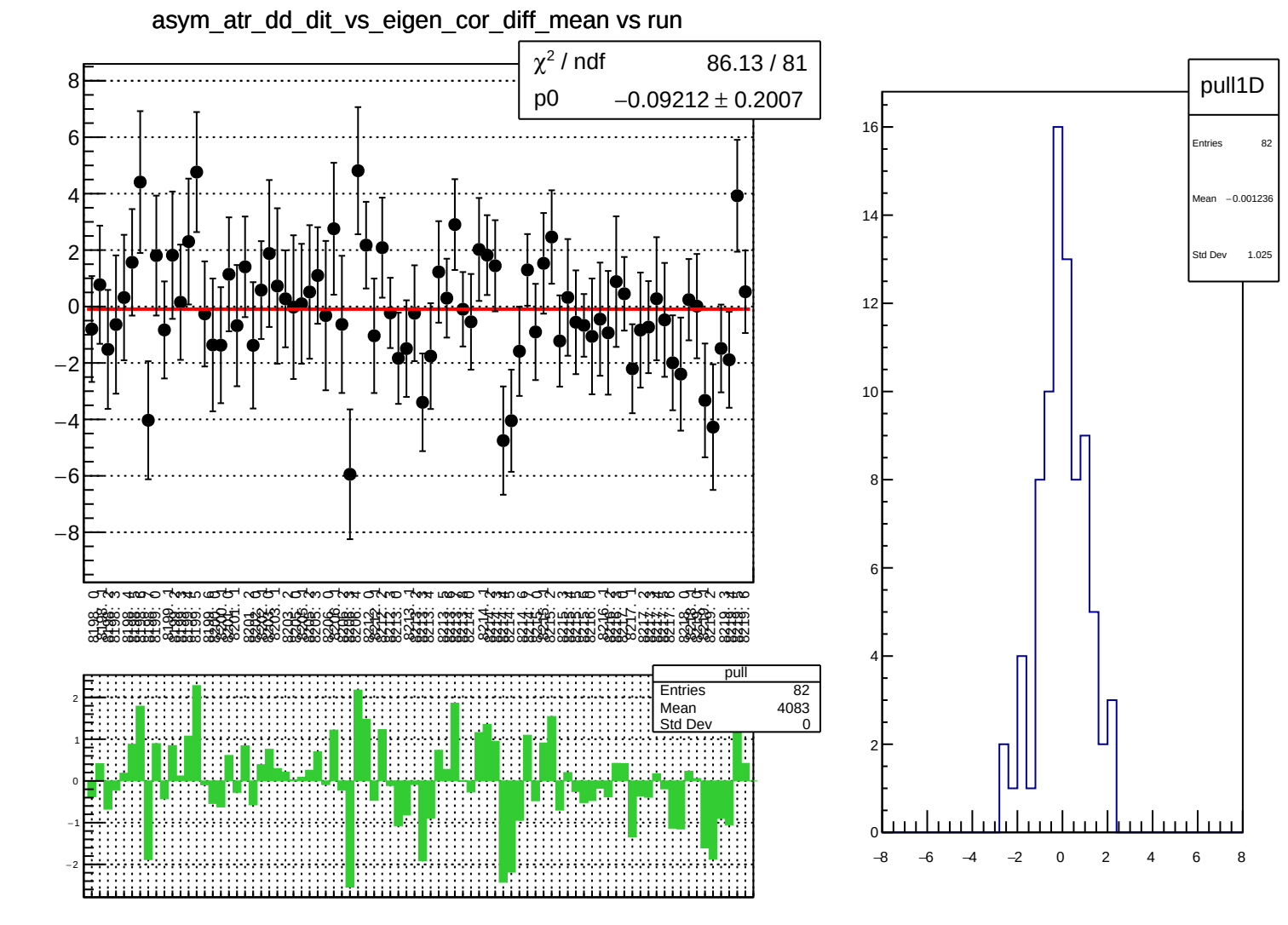

asym_atr_dd_rms vs run
χ² / ndf 4344 / 81
p0 7312 ± 5.751
8200
8000
7800
7600
7400
7200
7000
6800
6600

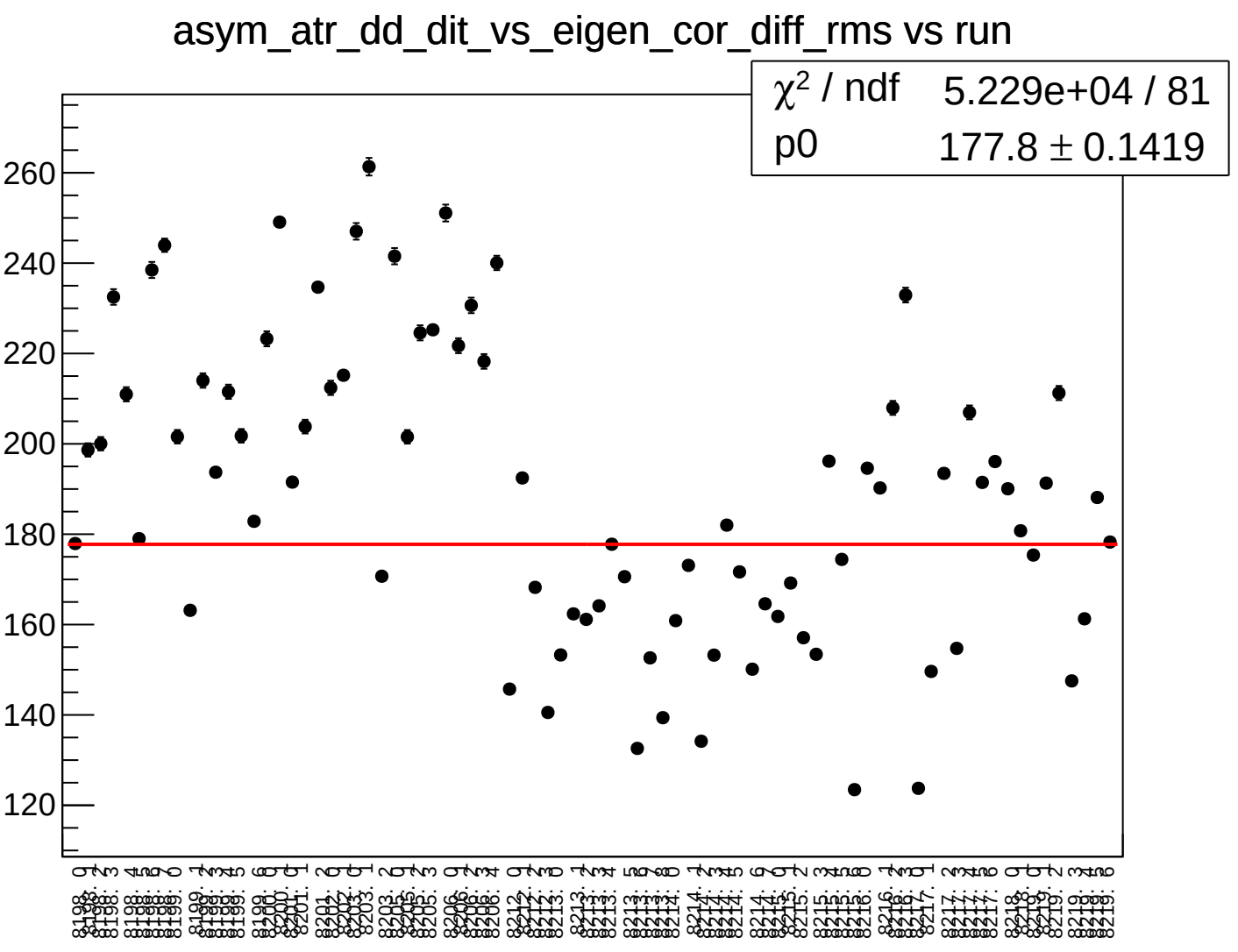

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.21 / 81
p0 2.062e−13 ± 1.069e−12
pull
Entries 82
Mean 82.63
Std Dev 0
pull1D
Entries 82
Mean 0.03073
Std Dev 1.001

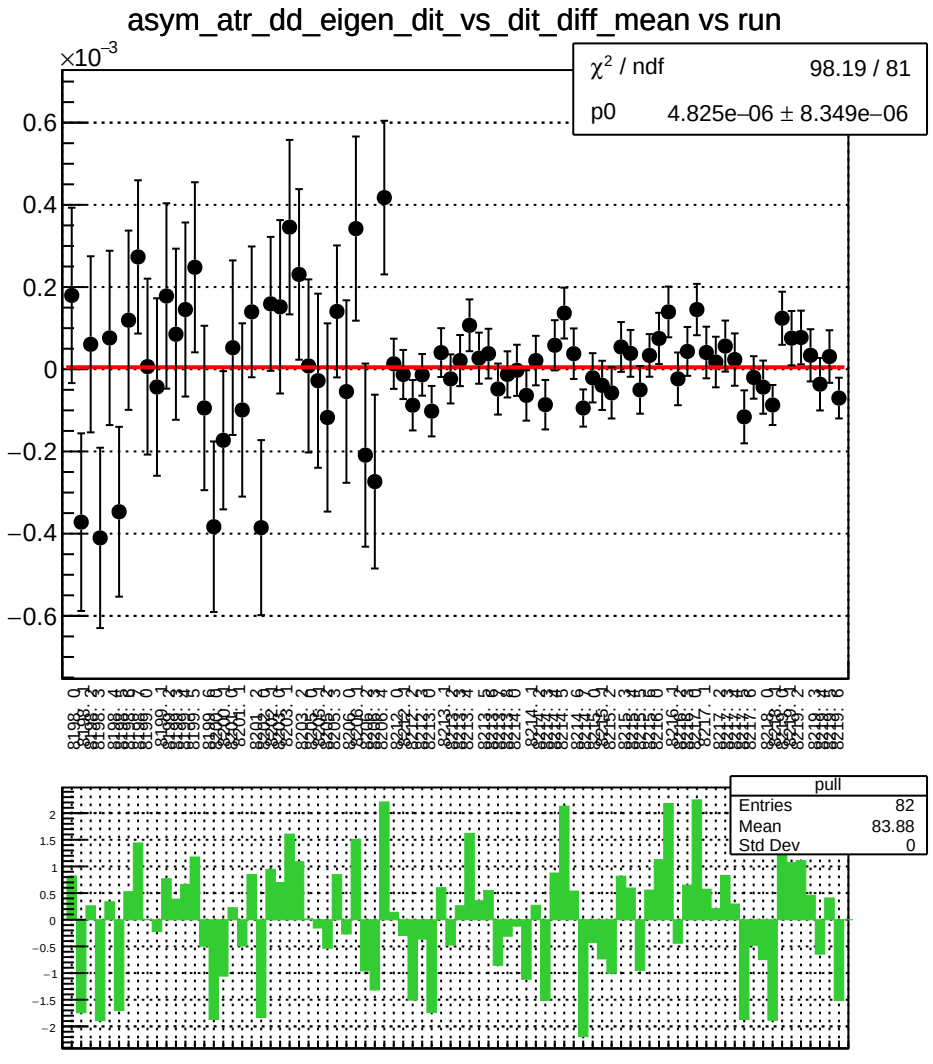

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.176e+05 / 81
p0 6.776e−10 ± 7.559e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

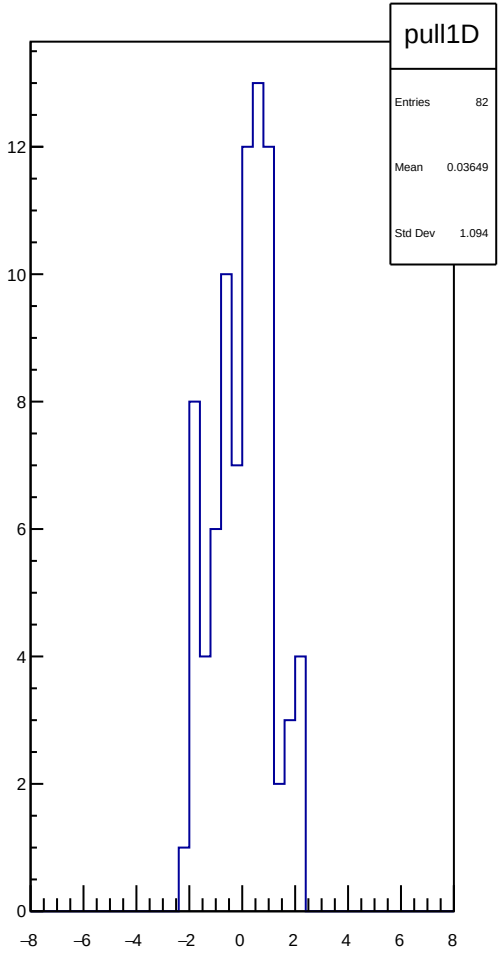

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.13 / 81
p0 −0.09212 ± 0.2007
pull
Entries 82
Mean 4083
Std Dev 0
pull1D
Entries 82
Mean −0.001236
Std Dev 1.025

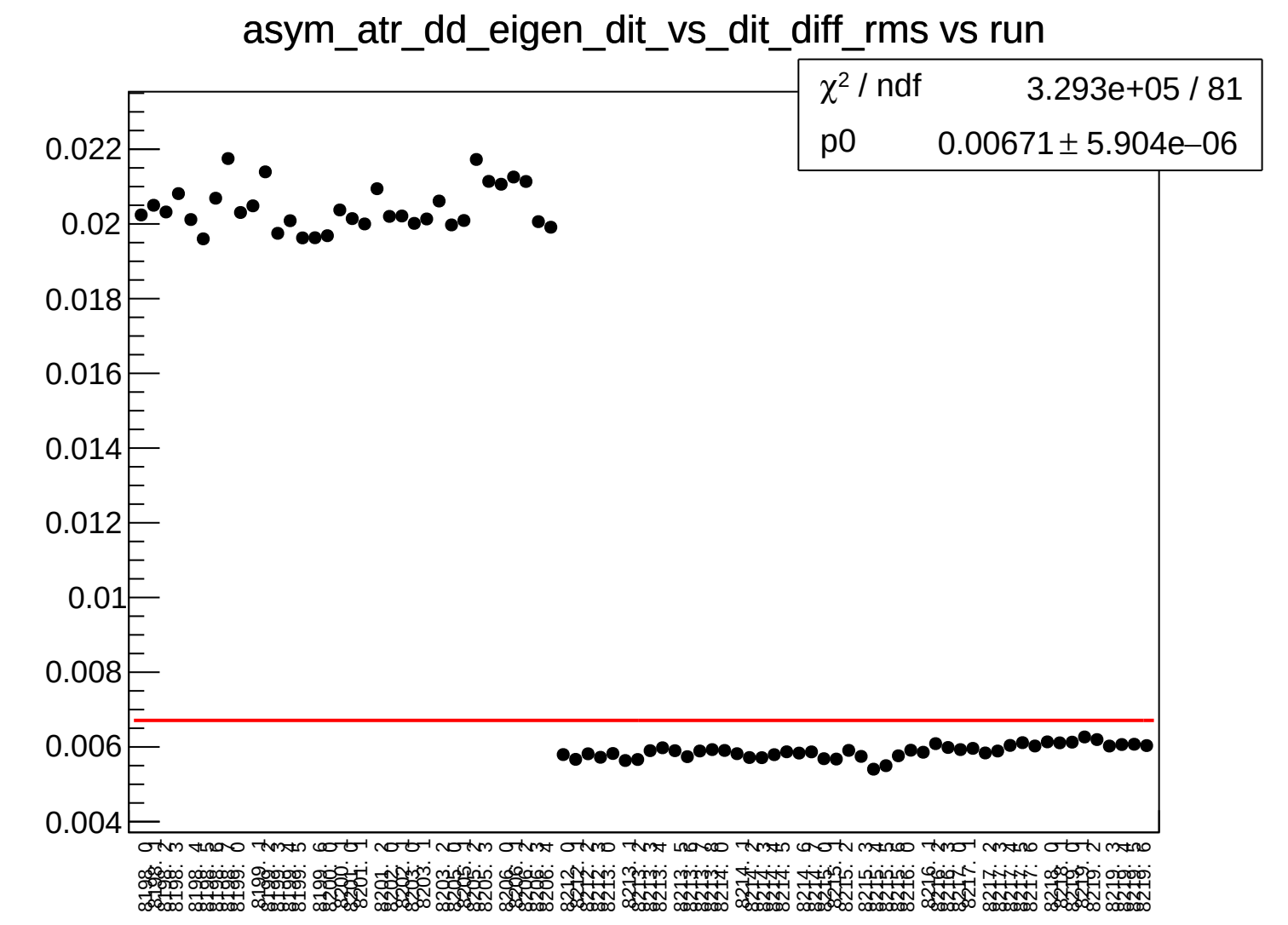

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.229e+04 / 81
p0 177.8 ± 0.1419
260
240
220
200
180
160
140
120

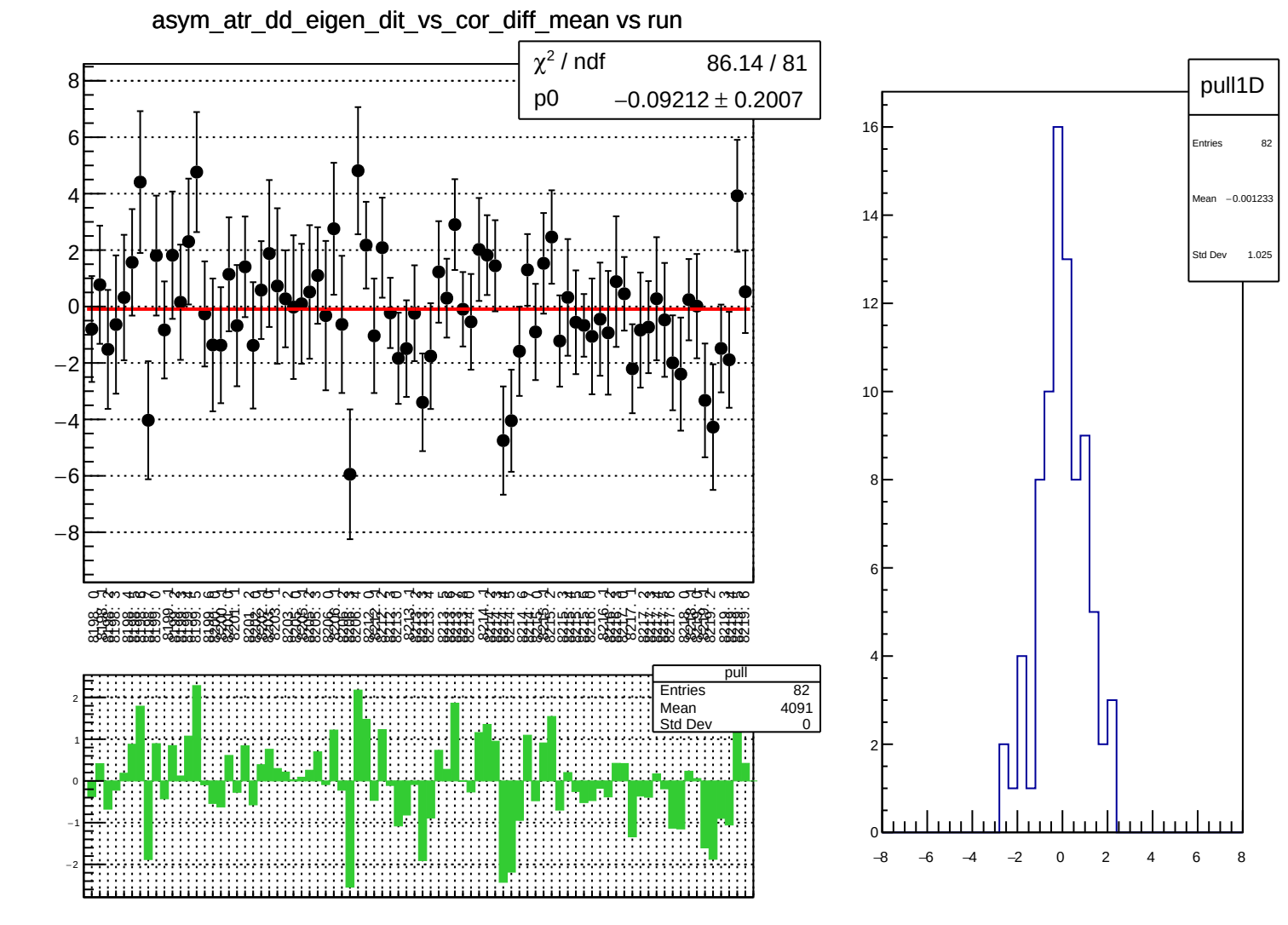

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.13 / 81
p0 −0.09212 ± 0.2007
pull
Entries 82
Mean 4083
Std Dev 0
pull1D
Entries 82
Mean −0.001236
Std Dev 1.025

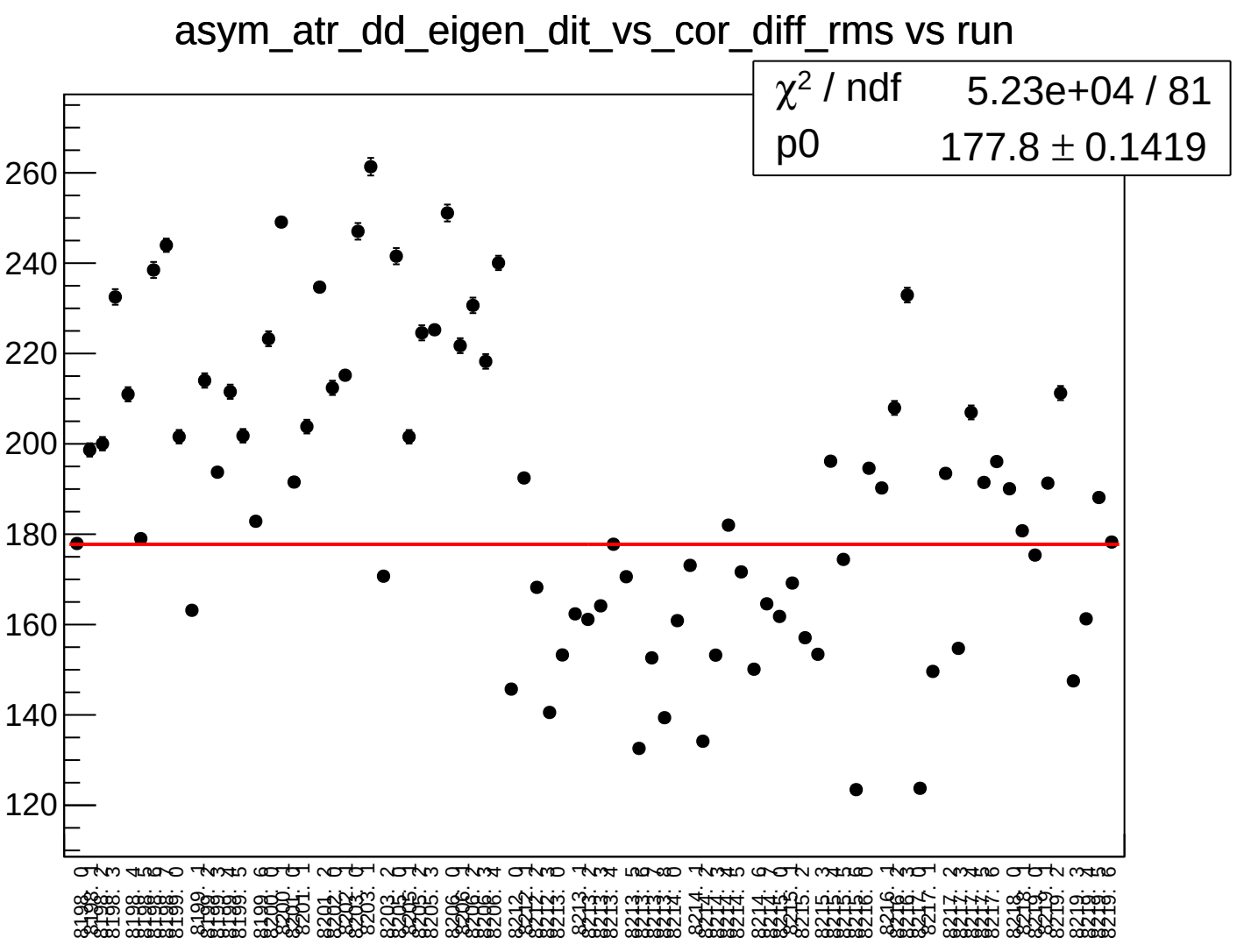

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.229e+04 / 81
p0 177.8 ± 0.1419
260
240
220
200
180
160
140
120

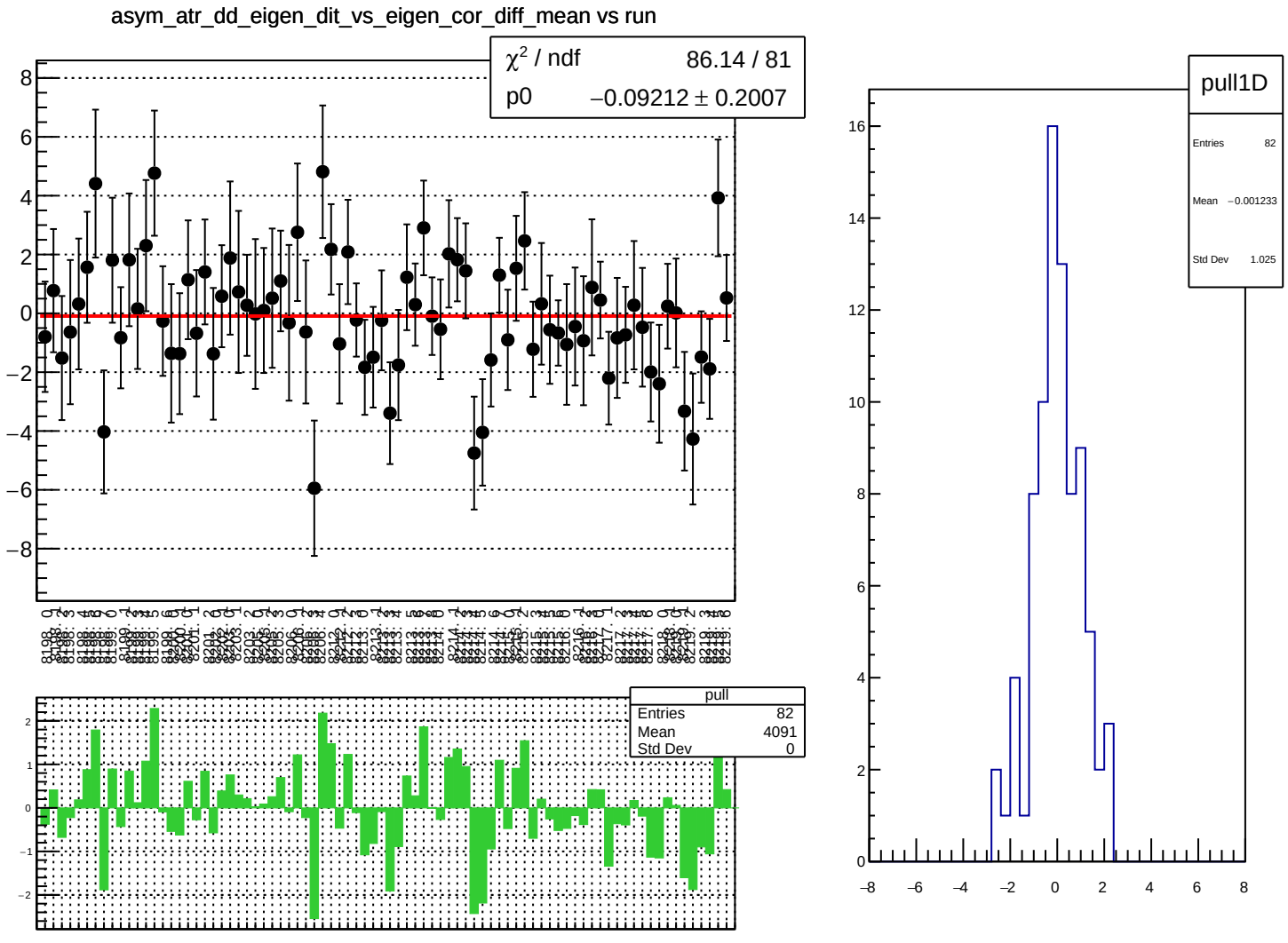

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.19 / 81
p0 4.825e−06 ± 8.349e−06
pull
Entries 82
Mean 83.88
Std Dev 0

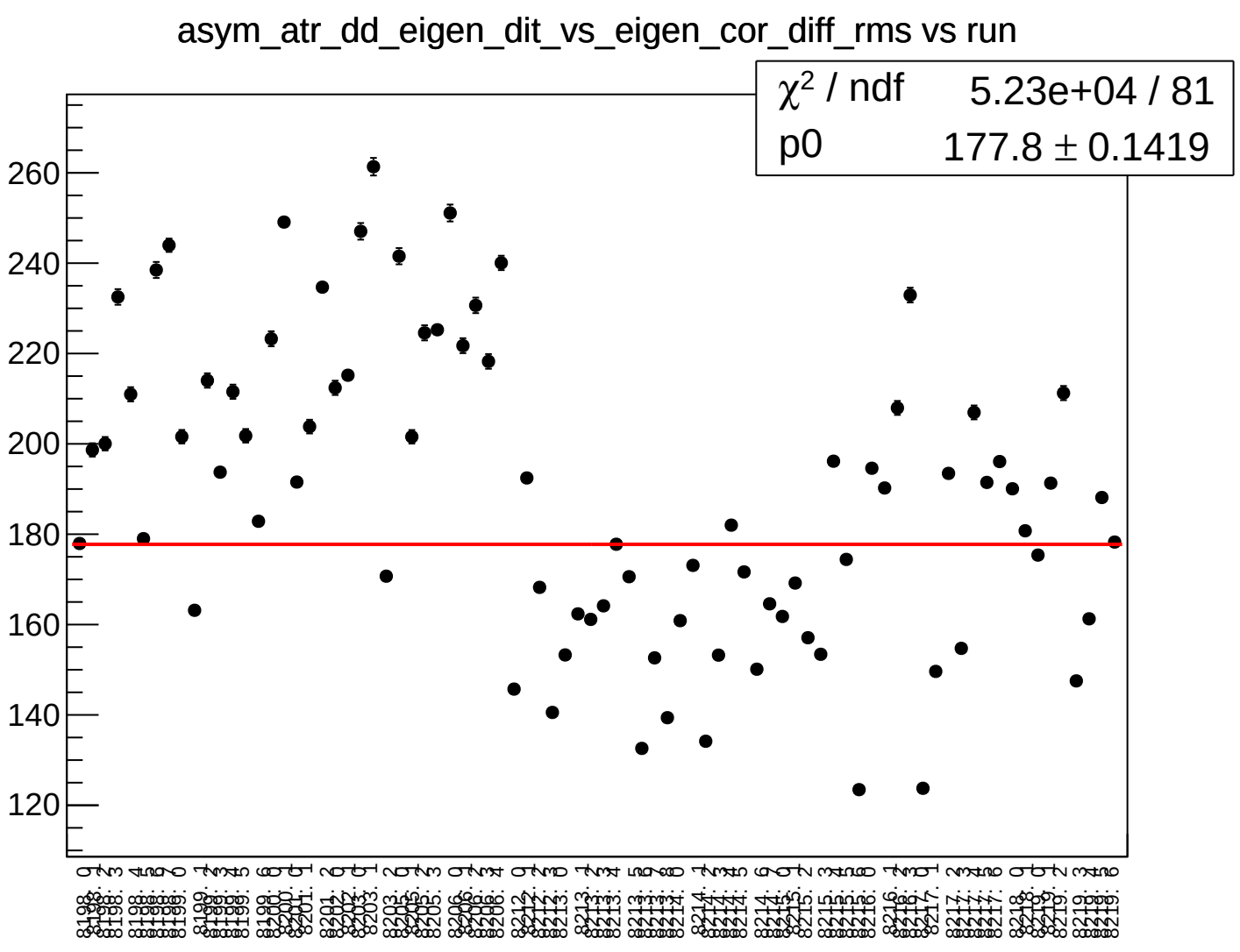

pull1D
Entries 82
Mean 0.03649
Std Dev 1.094

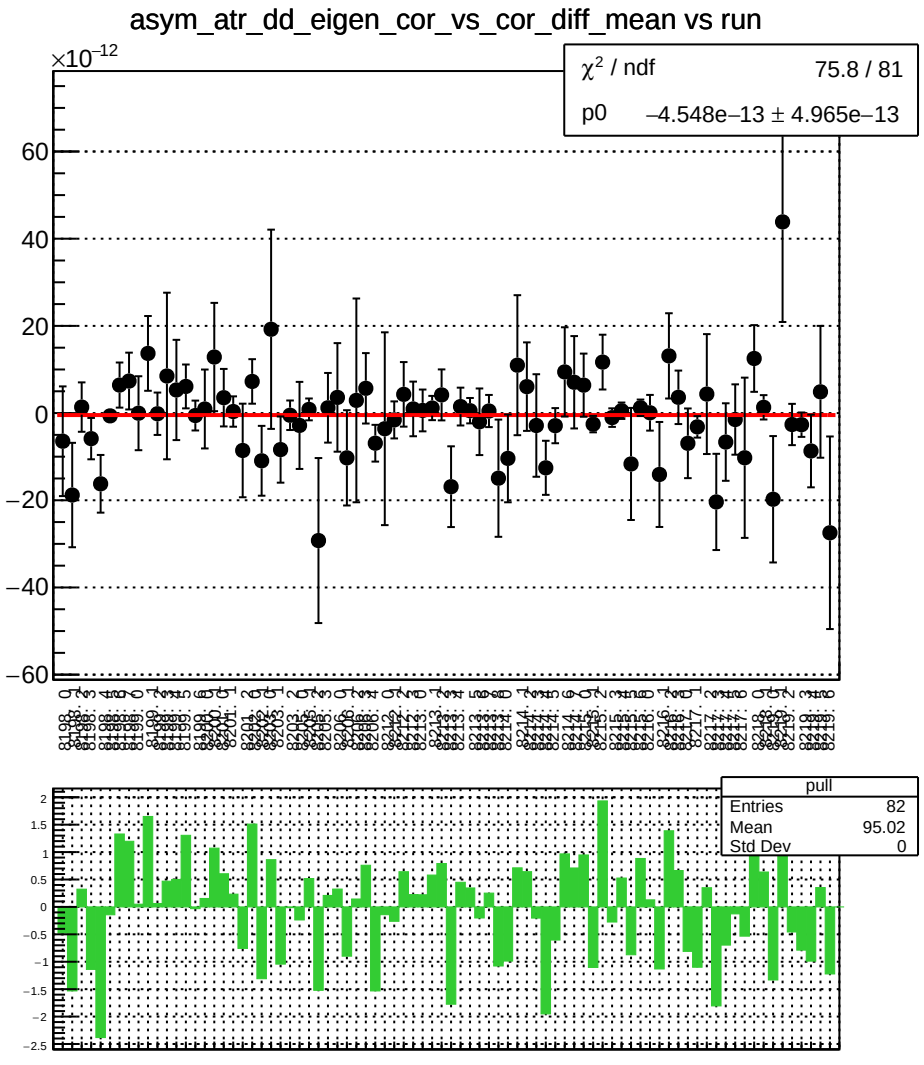

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.293e+05 / 81
p0 0.00671 ± 5.904e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

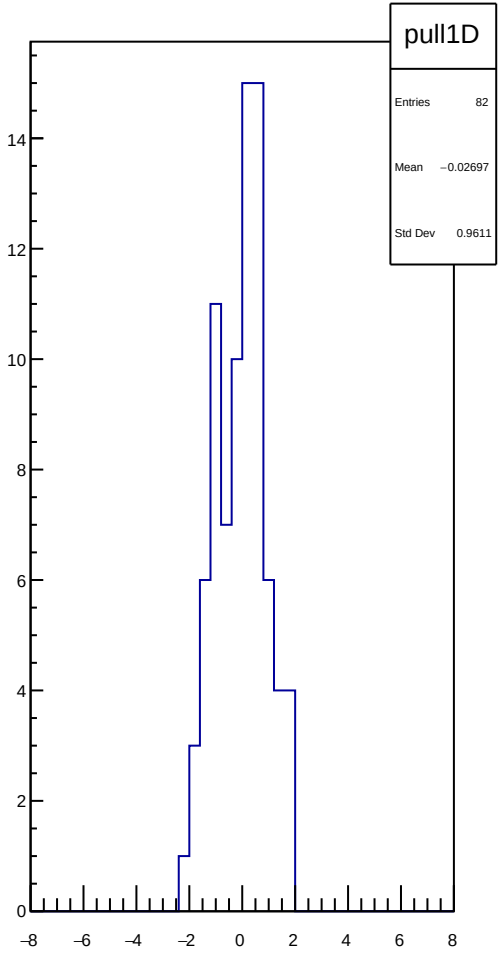

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.14 / 81
p0 −0.09212 ± 0.2007
pull
Entries 82
Mean 4091
Std Dev 0
pull1D
Entries 82
Mean −0.001233
Std Dev 1.025

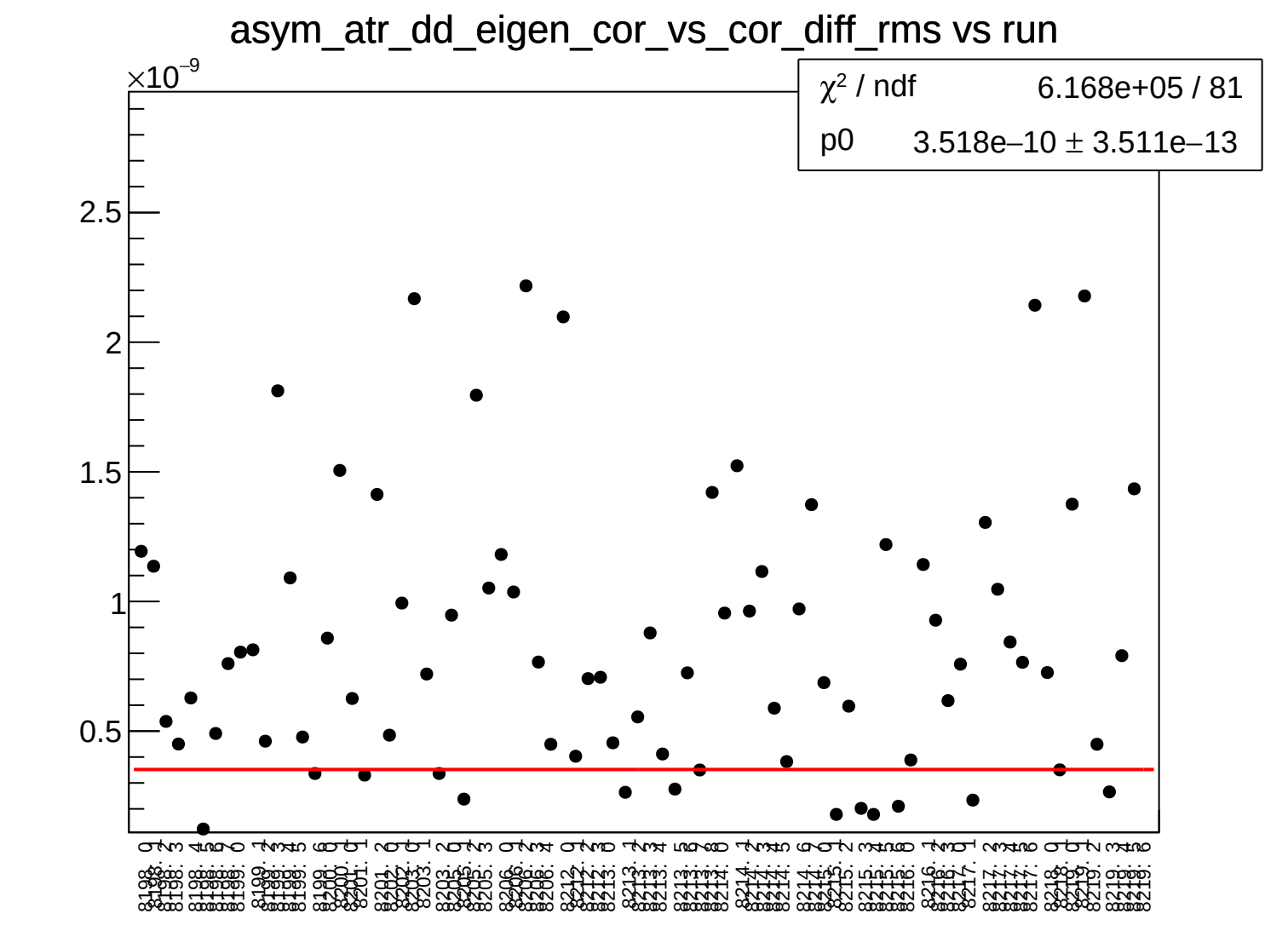

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.23e+04 / 81
p0 177.8 ± 0.1419
260
240
220
200
180
160
140
120

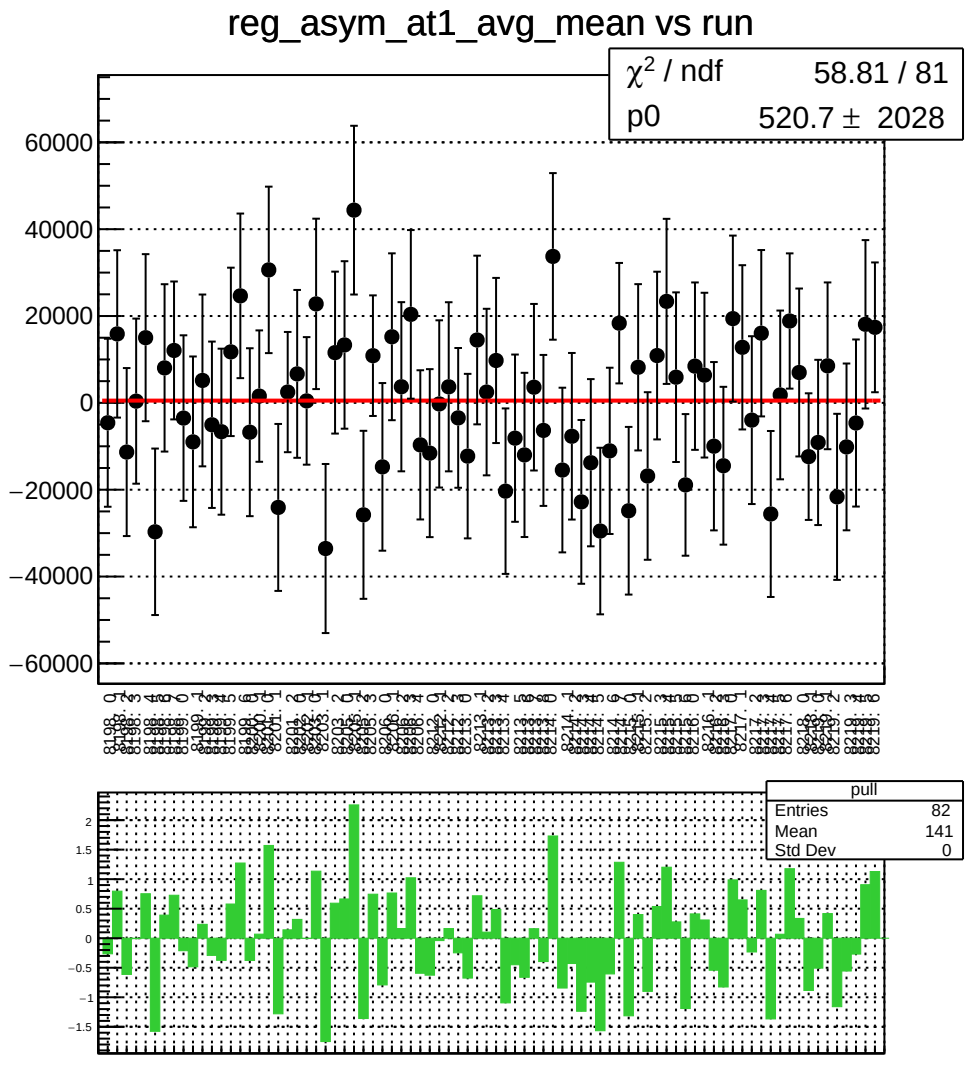

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.14 / 81
p0 −0.09212 ± 0.2007
pull
Entries 82
Mean 4091
Std Dev 0
pull1D
Entries 82
Mean −0.001233
Std Dev 1.025

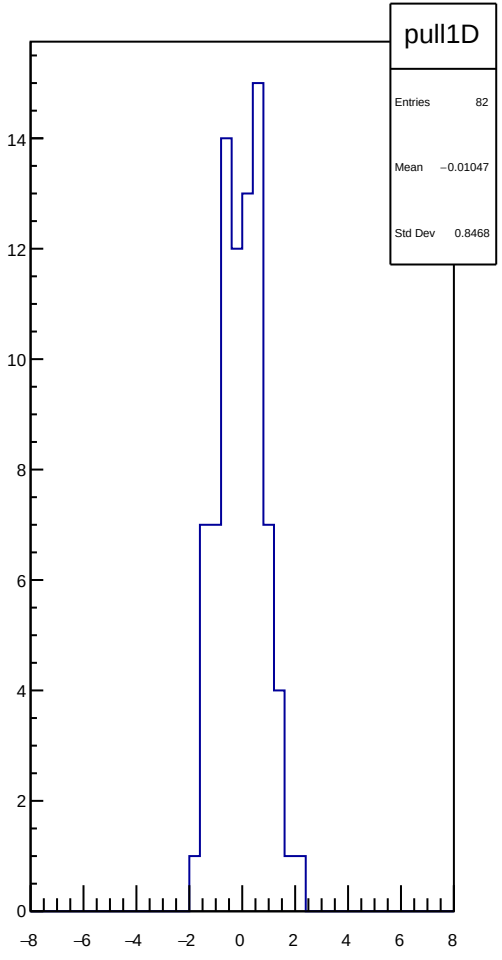

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.23e+04 / 81
p0 177.8 ± 0.1419
260
240
220
200
180
160
140
120

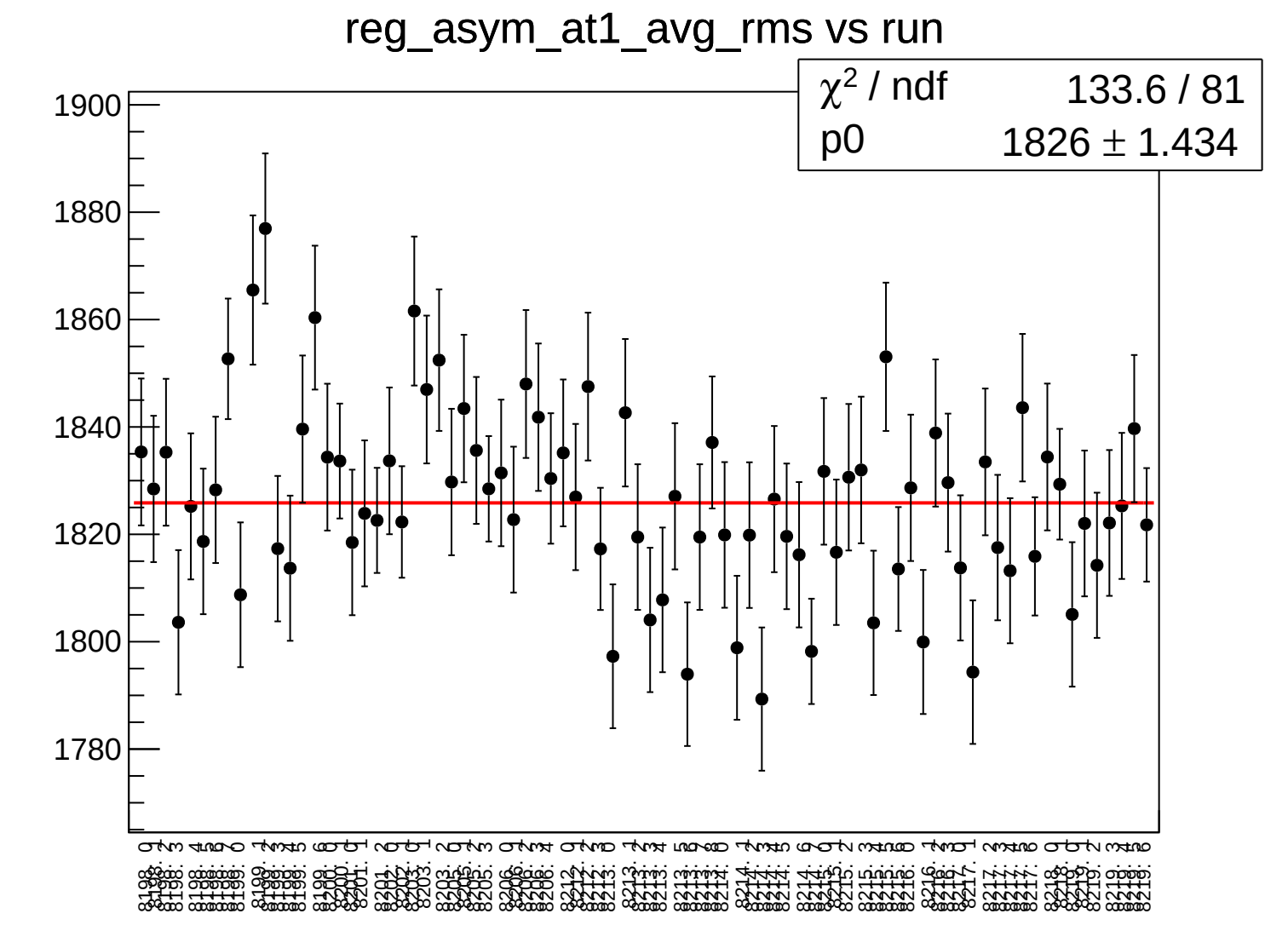

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.8 / 81
p0 −4.548e−13 ± 4.965e−13
pull
Entries 82
Mean 95.02
Std Dev 0

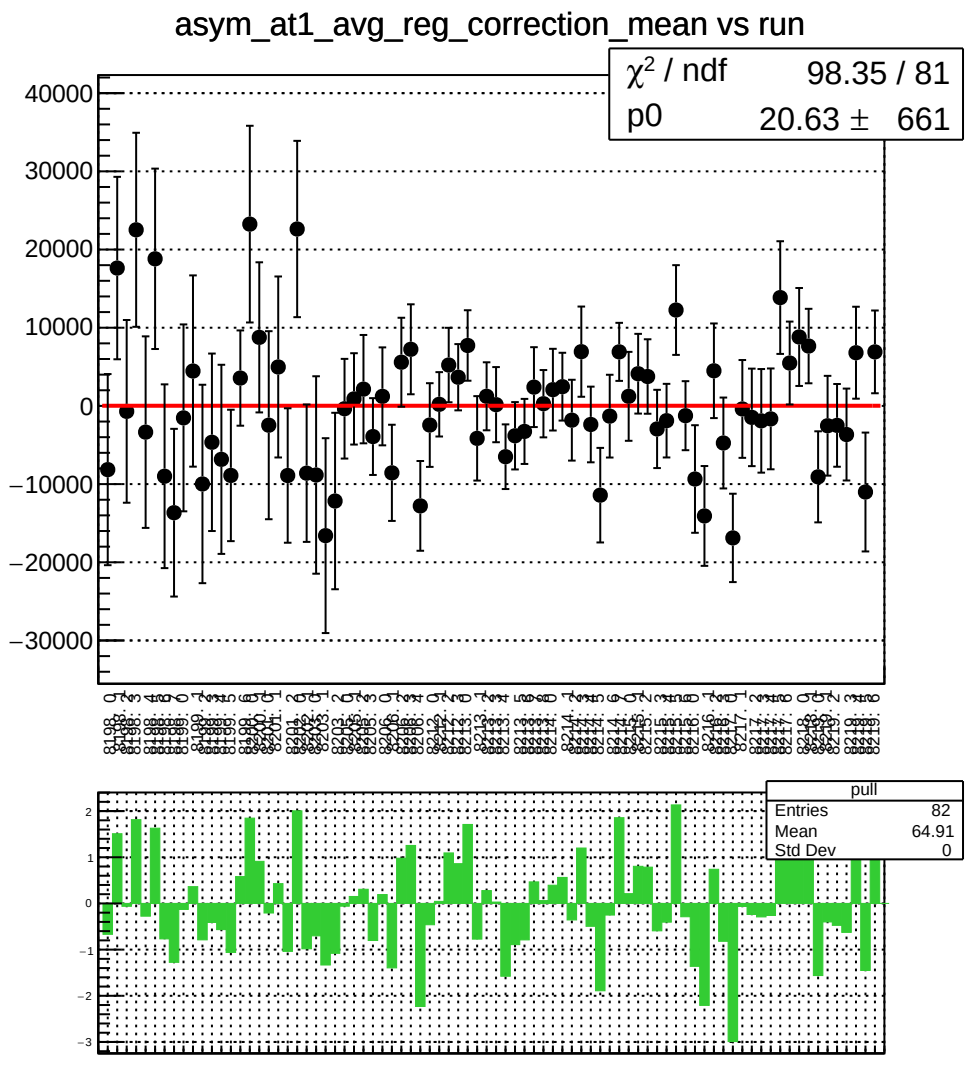

pull1D
Entries 82
Mean −0.02697
Std Dev 0.9611

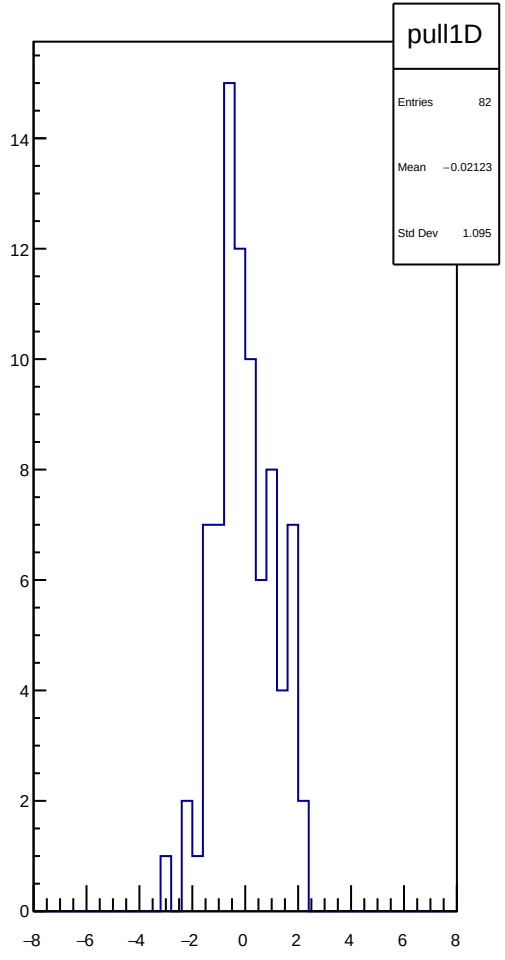

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.168e+05 / 81
p0 3.518e−10 ± 3.511e−13
2.5
2
1.5
1
0.5

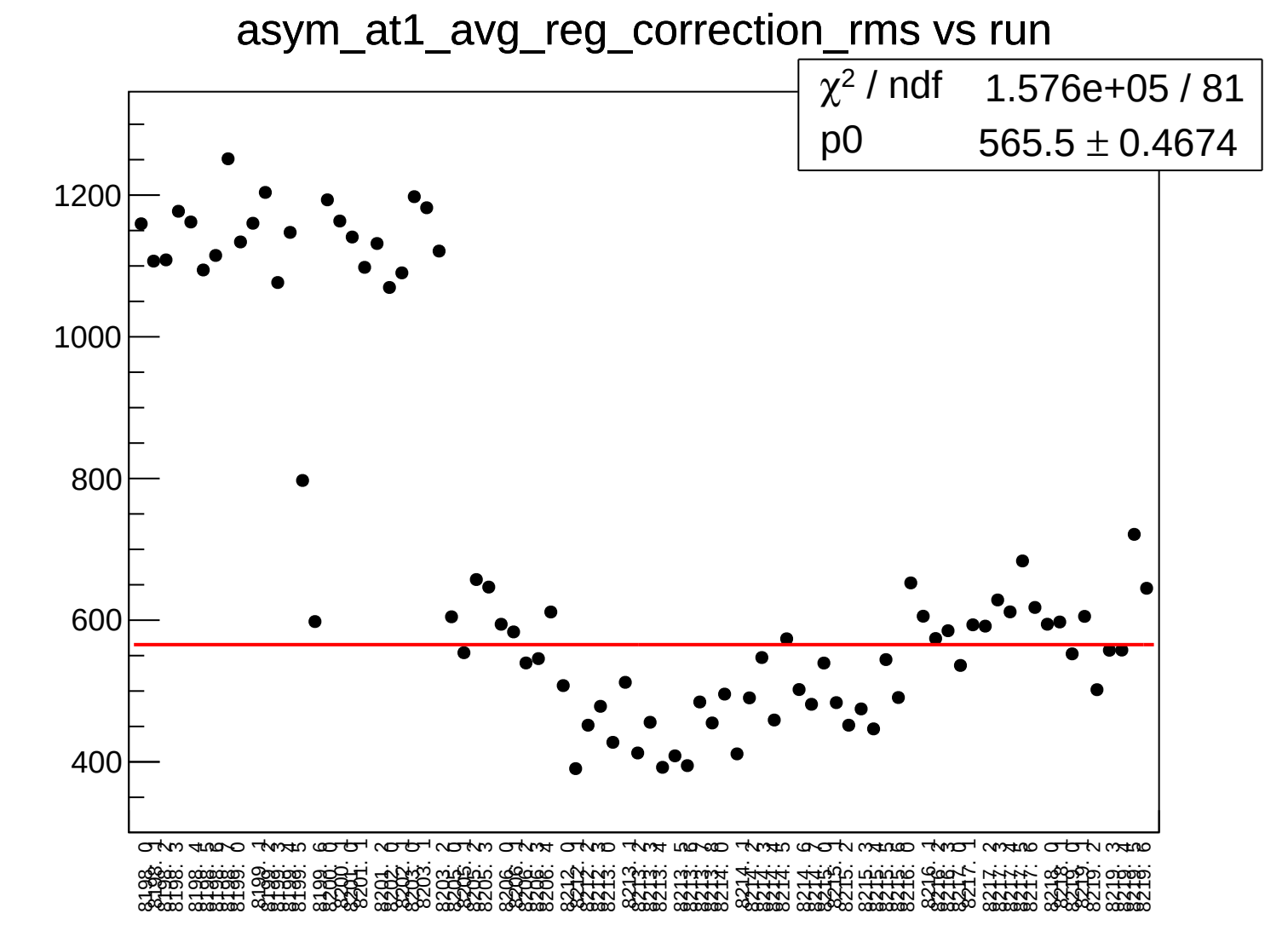

reg_asym_at1_avg_mean vs run
χ² / ndf 58.81 / 81
p0 520.7 ± 2028
pull
Entries 82
Mean 141
Std Dev 0

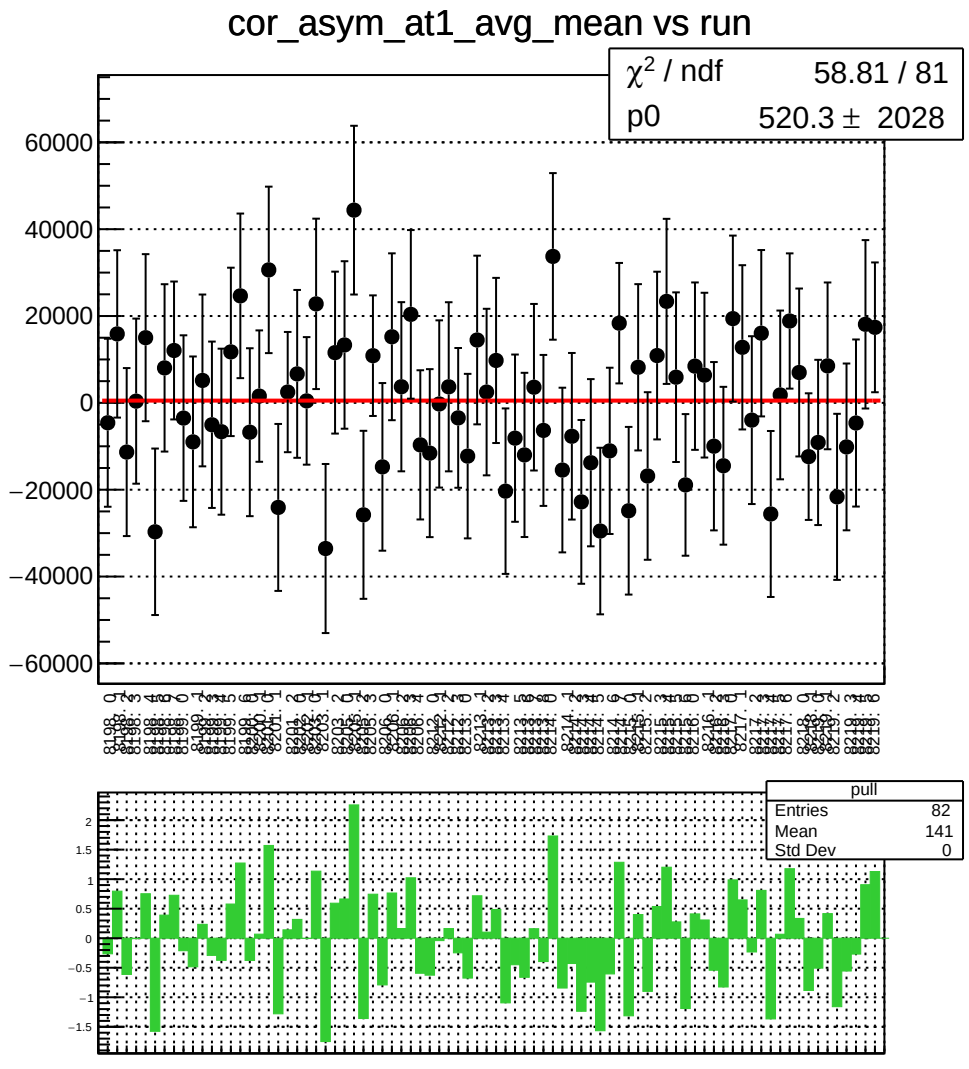

pull1D
Entries 82
Mean −0.01047
Std Dev 0.8468

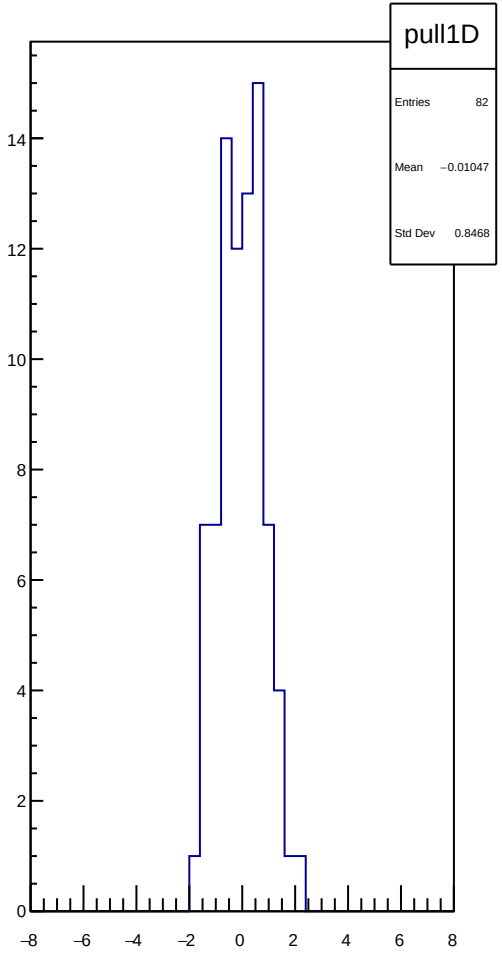

reg_asym_at1_avg_rms vs run
χ² / ndf 133.6 / 81
p0 1826 ± 1.434
1900
1880
1860
1840
1820
1800
1780

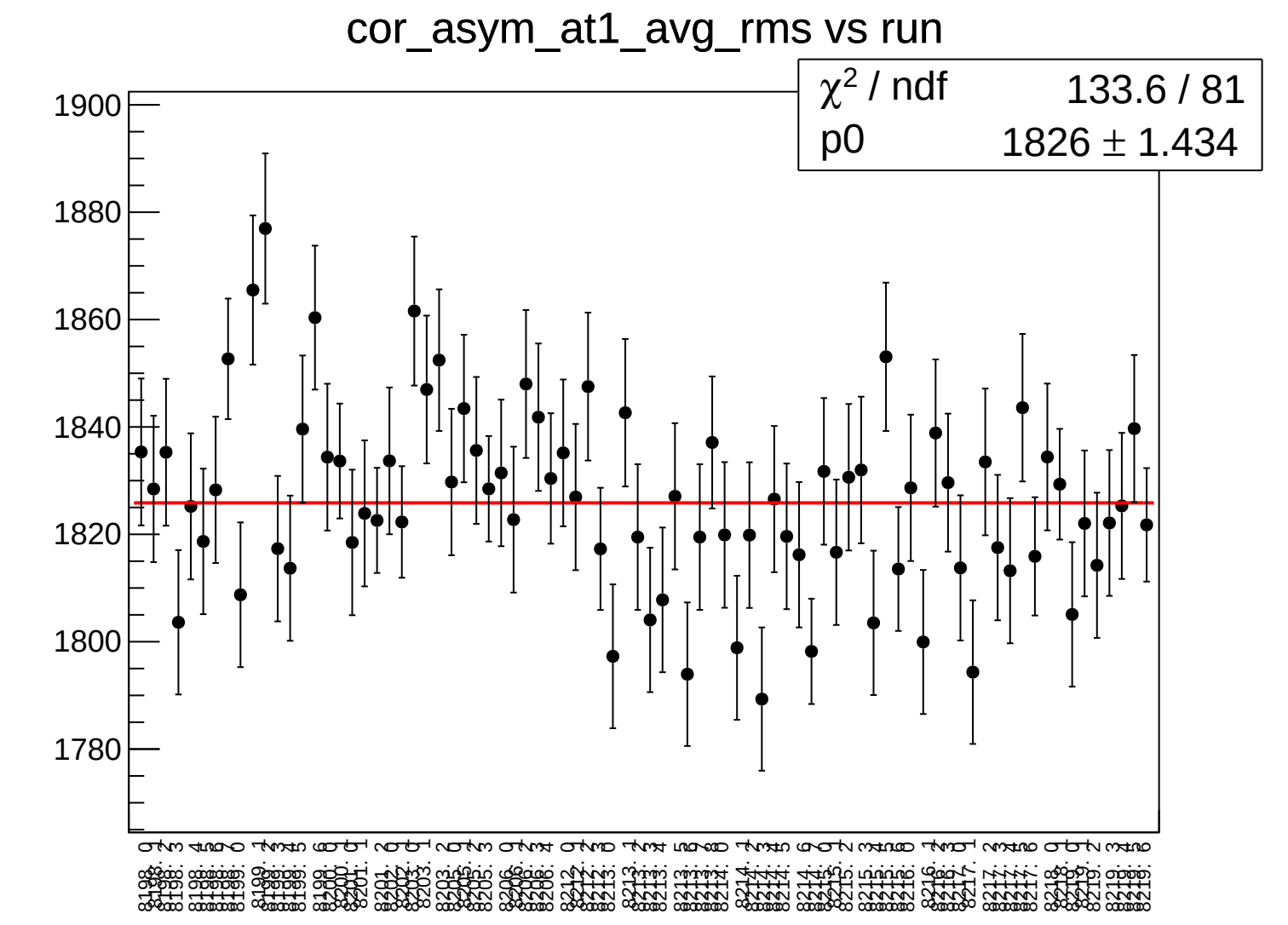

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 98.35 / 81
p0 20.63 ± 661
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 64.91
Std Dev 0
2
1
0
−1
−2
−3

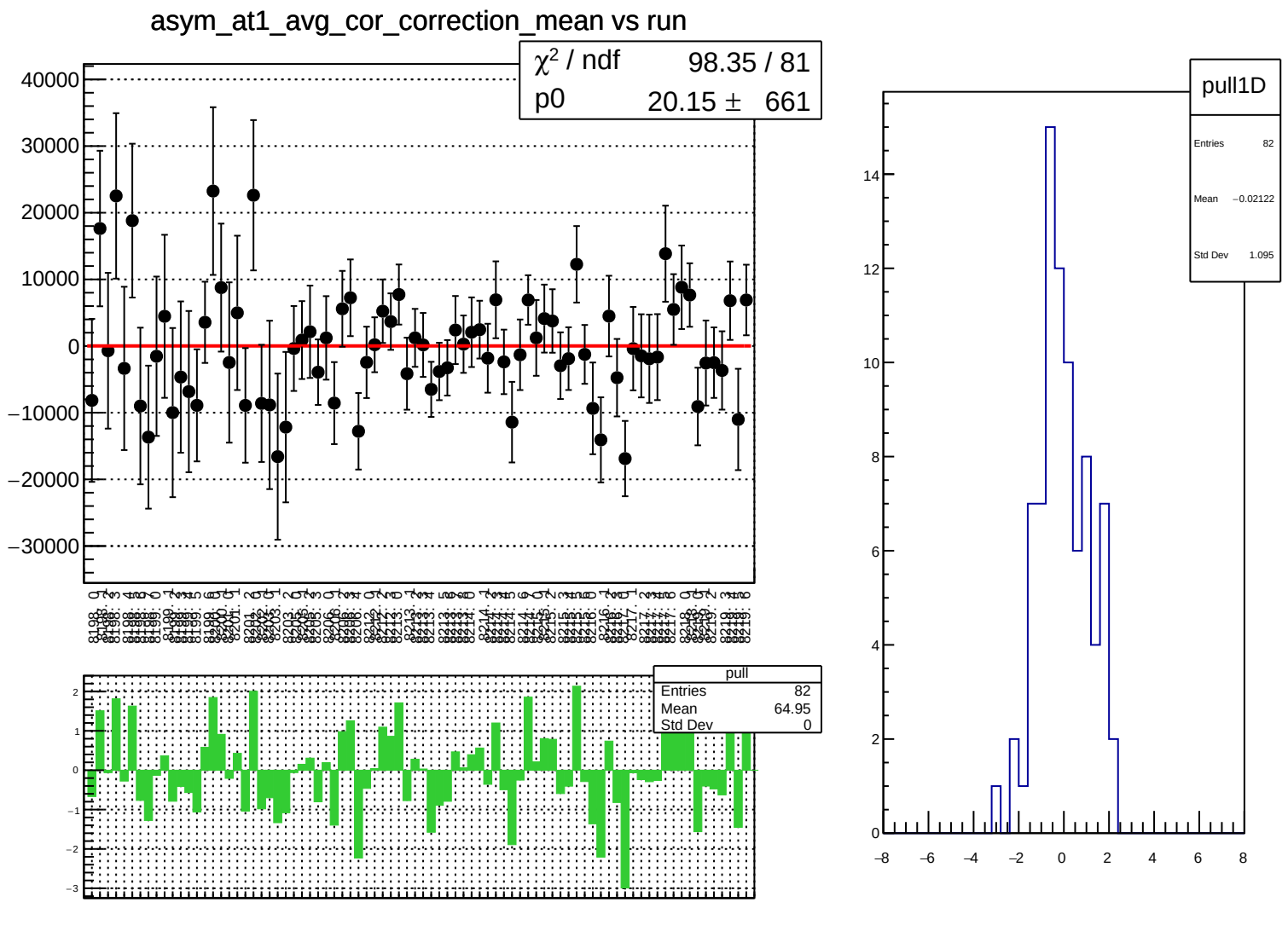

pull1D
Entries 82
Mean −0.02123
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

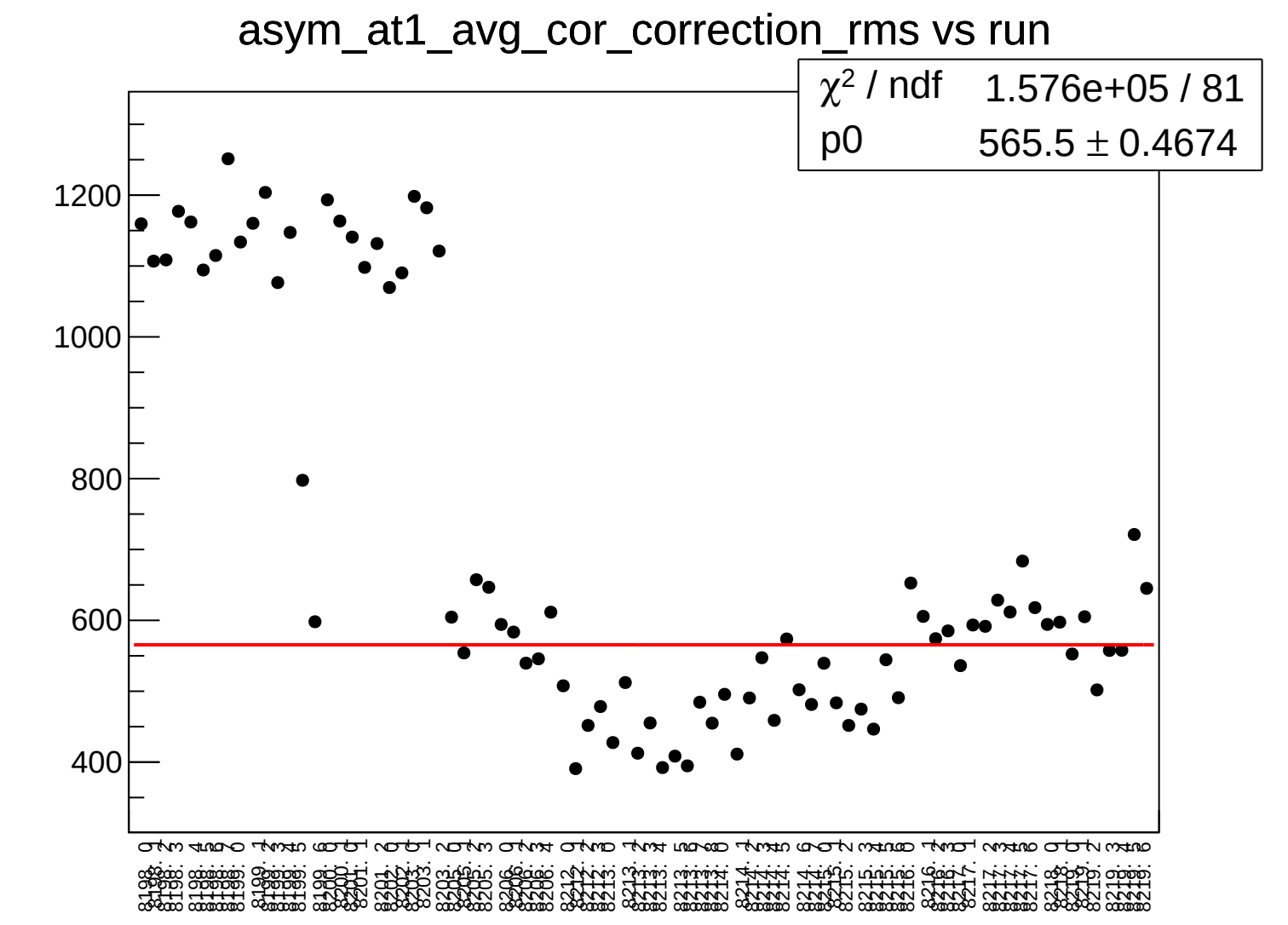

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.576e+05 / 81
p0 565.5 ± 0.4674
1200
1000
800
600
400

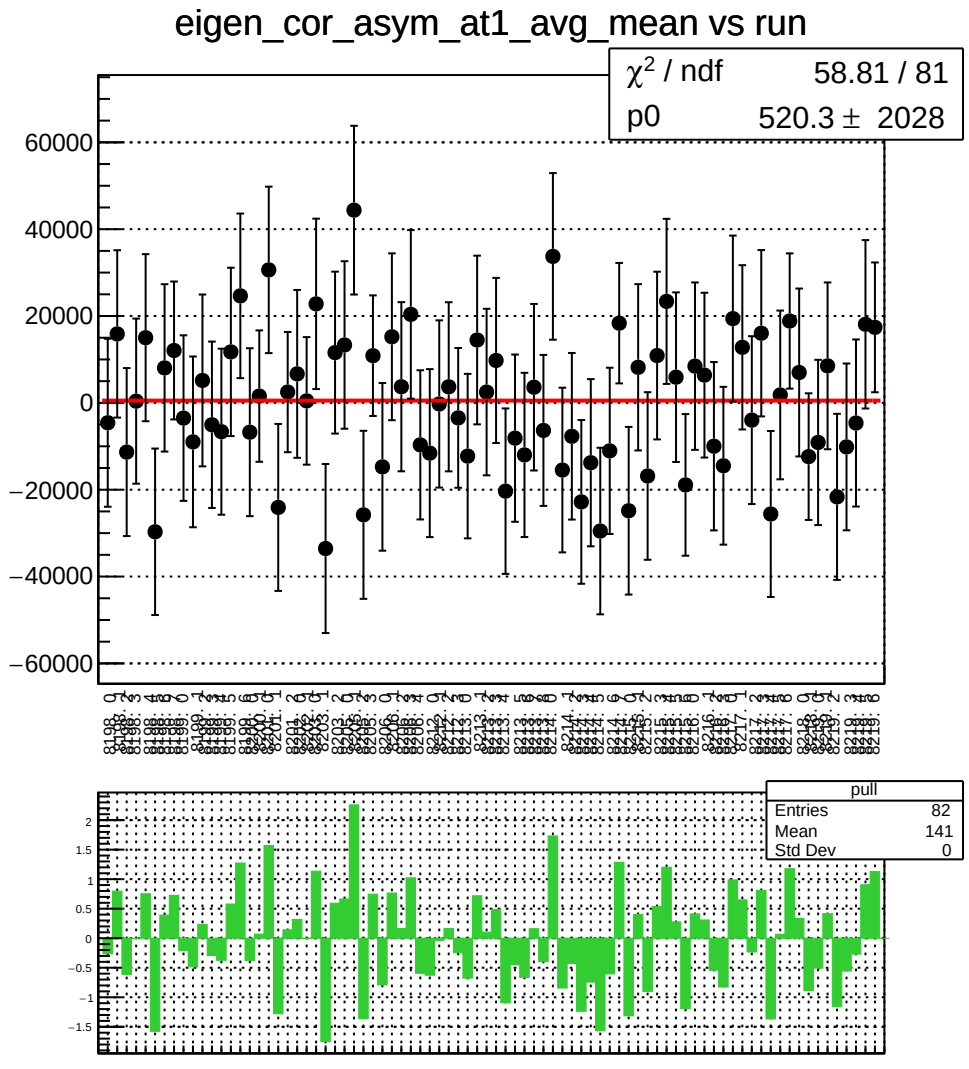

cor_asym_at1_avg_mean vs run
χ² / ndf 58.81 / 81
p0 520.3 ± 2028
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 141
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

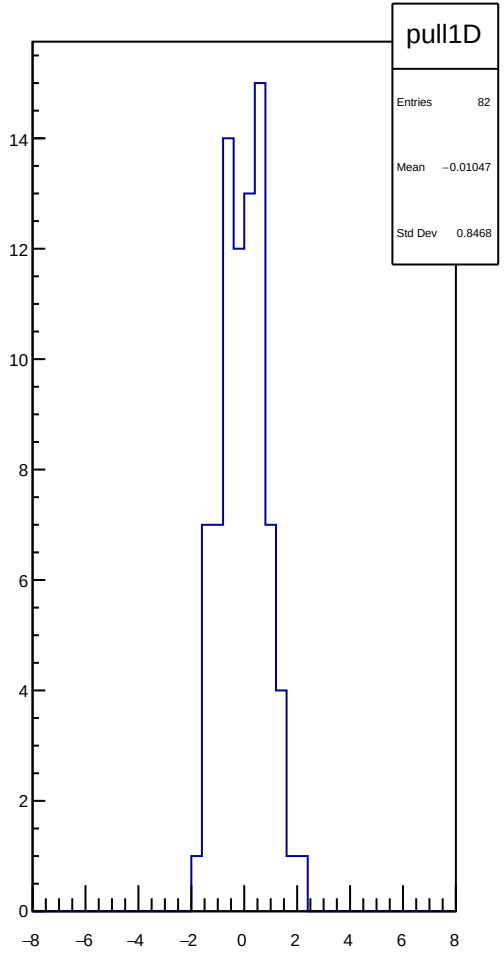

pull1D
Entries 82
Mean −0.01047
Std Dev 0.8468
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

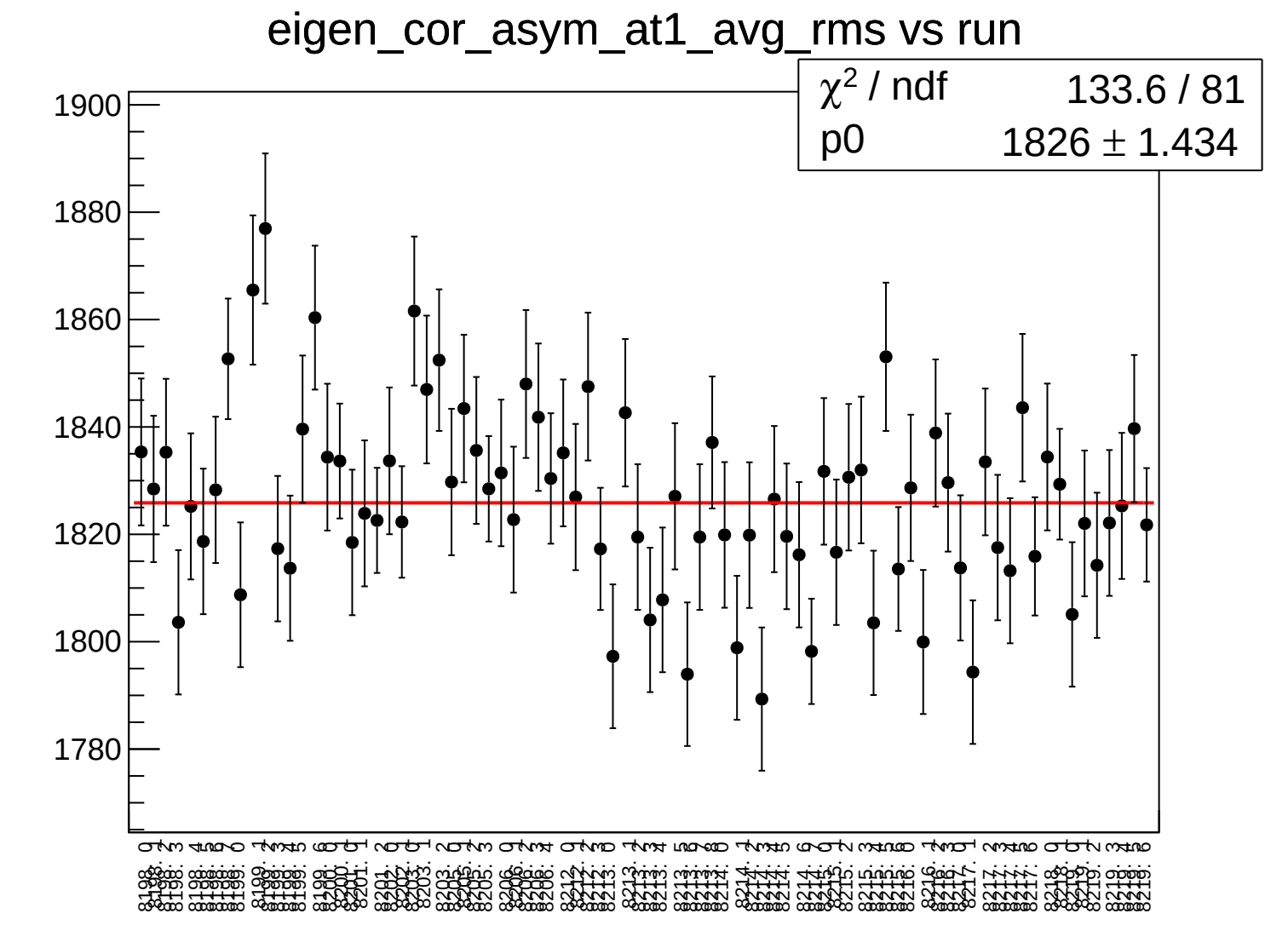

cor_asym_at1_avg_rms vs run
$\chi^2$ / ndf 133.6 / 81
p0 1826 ± 1.434
1900
1880
1860
1840
1820
1800
1780

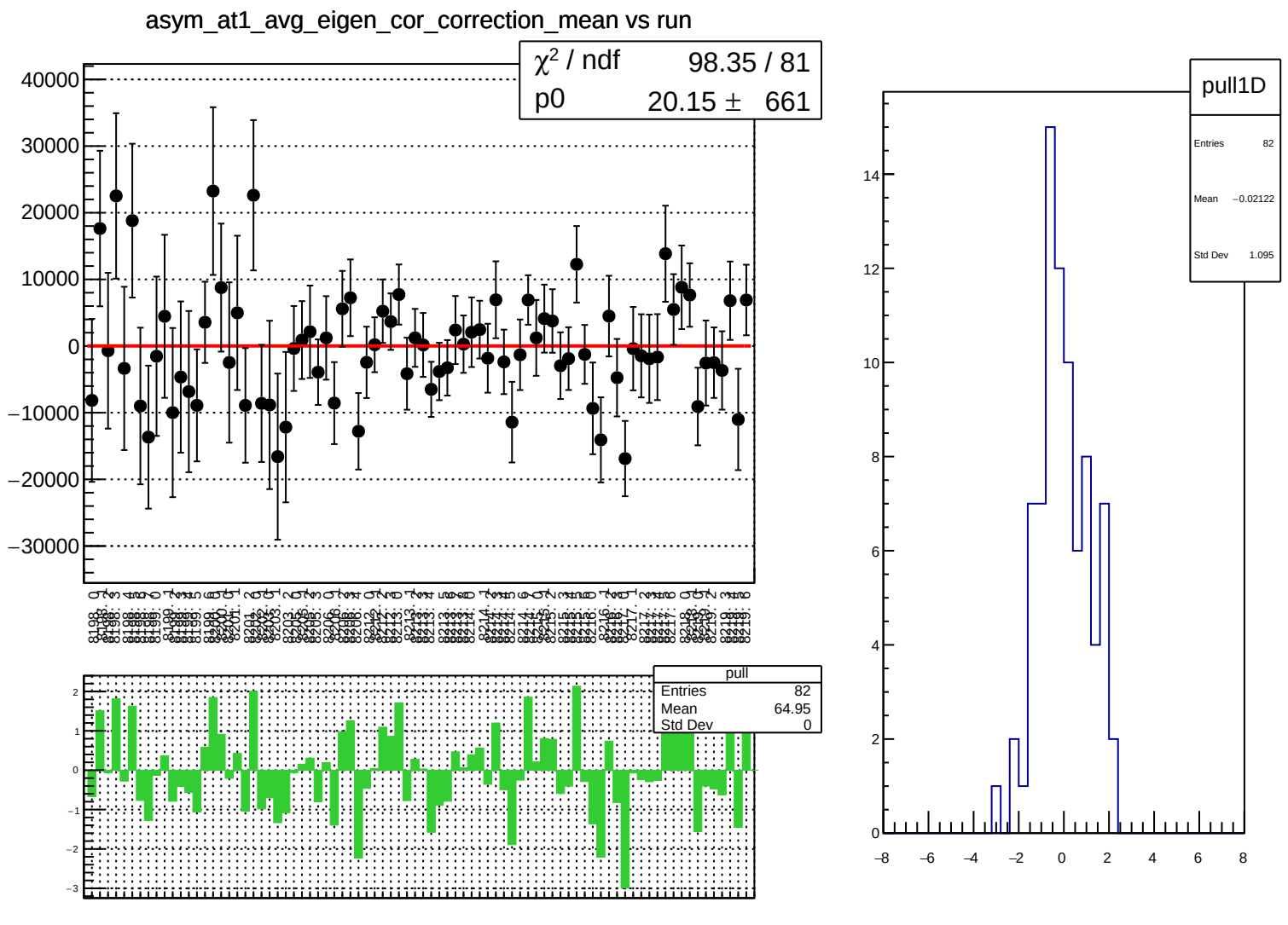

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 98.35 / 81
p0 20.15 ± 661
pull
Entries 82
Mean 64.95
Std Dev 0
pull1D
Entries 82
Mean −0.02122
Std Dev 1.095

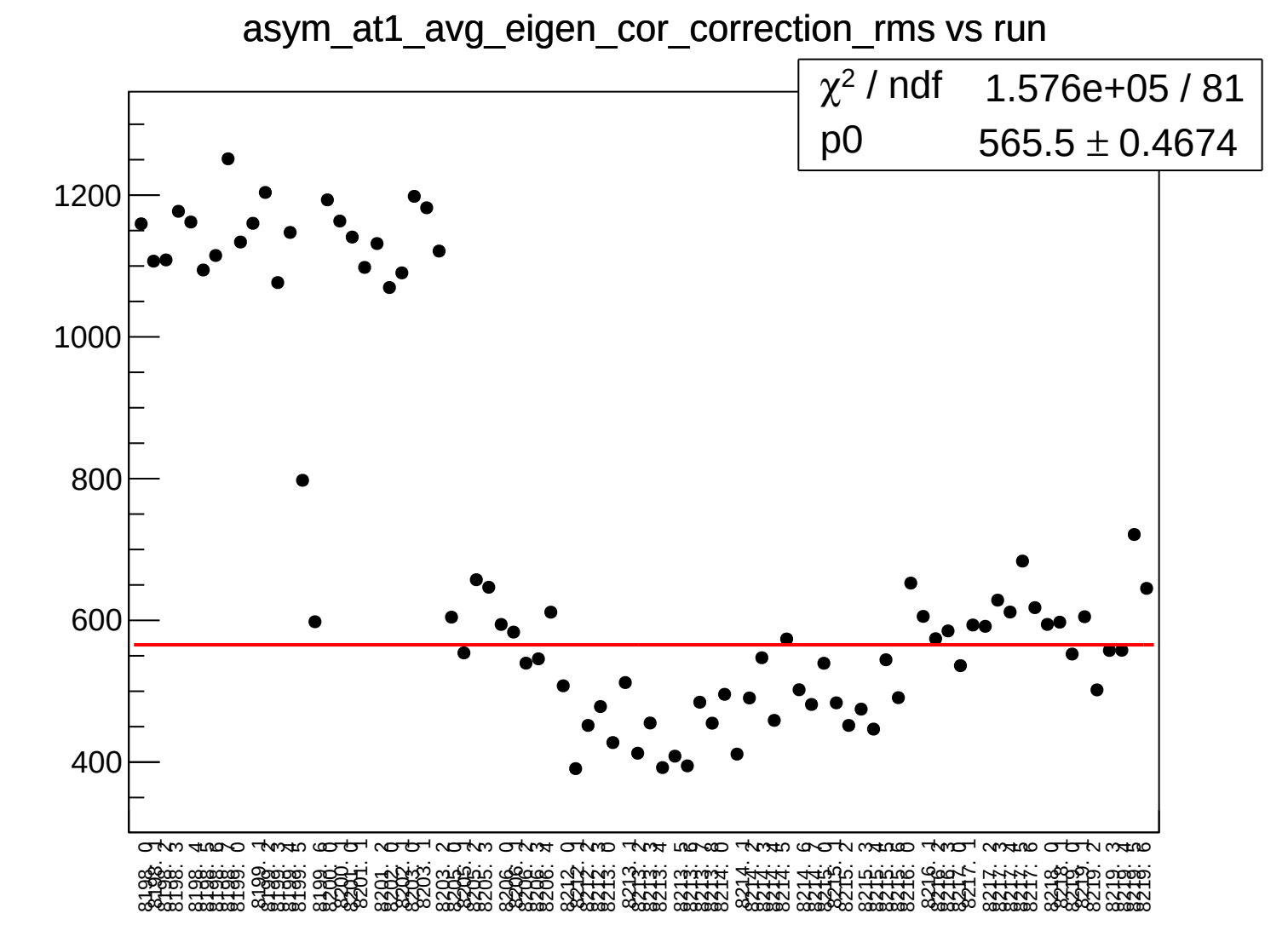

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.576e+05 / 81
p0 565.5 ± 0.4674
1200
1000
800
600
400

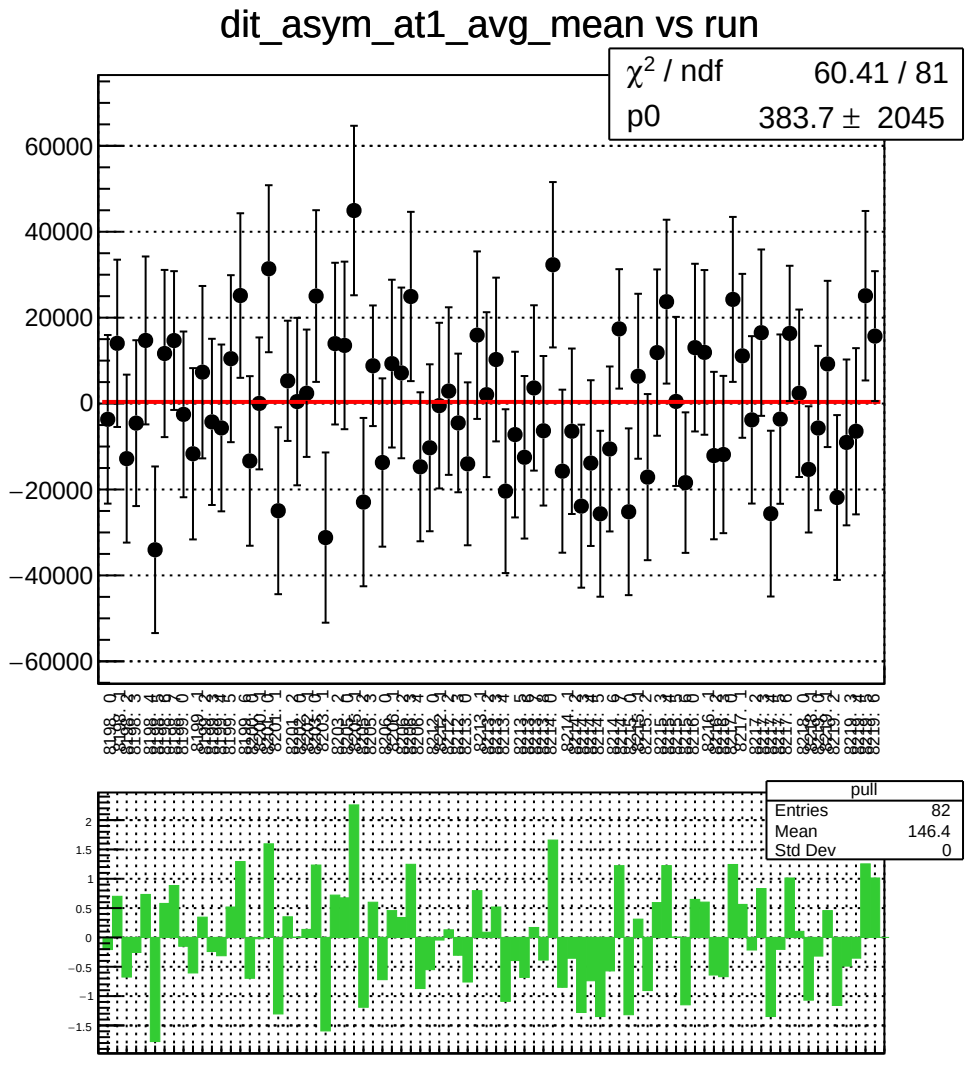

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 58.81 / 81
p0 520.3 ± 2028
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 141
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

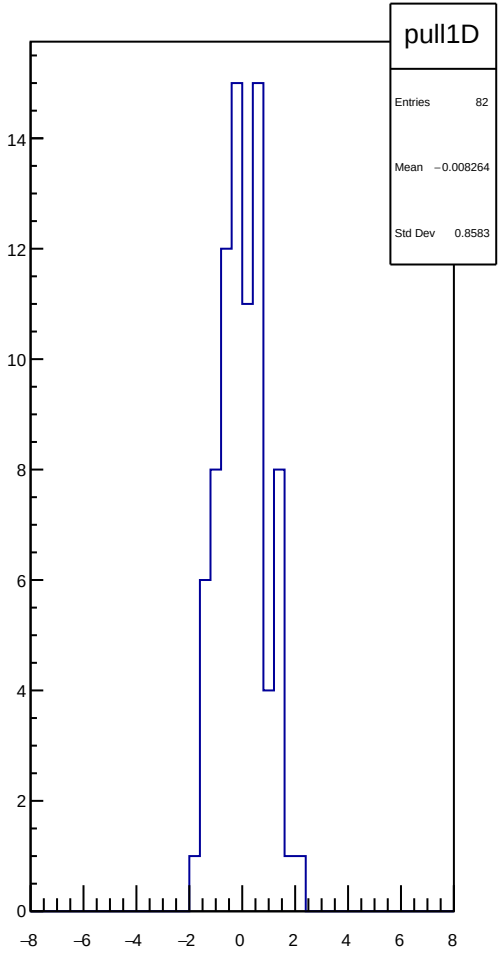

pull1D
Entries 82
Mean −0.01047
Std Dev 0.8468
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

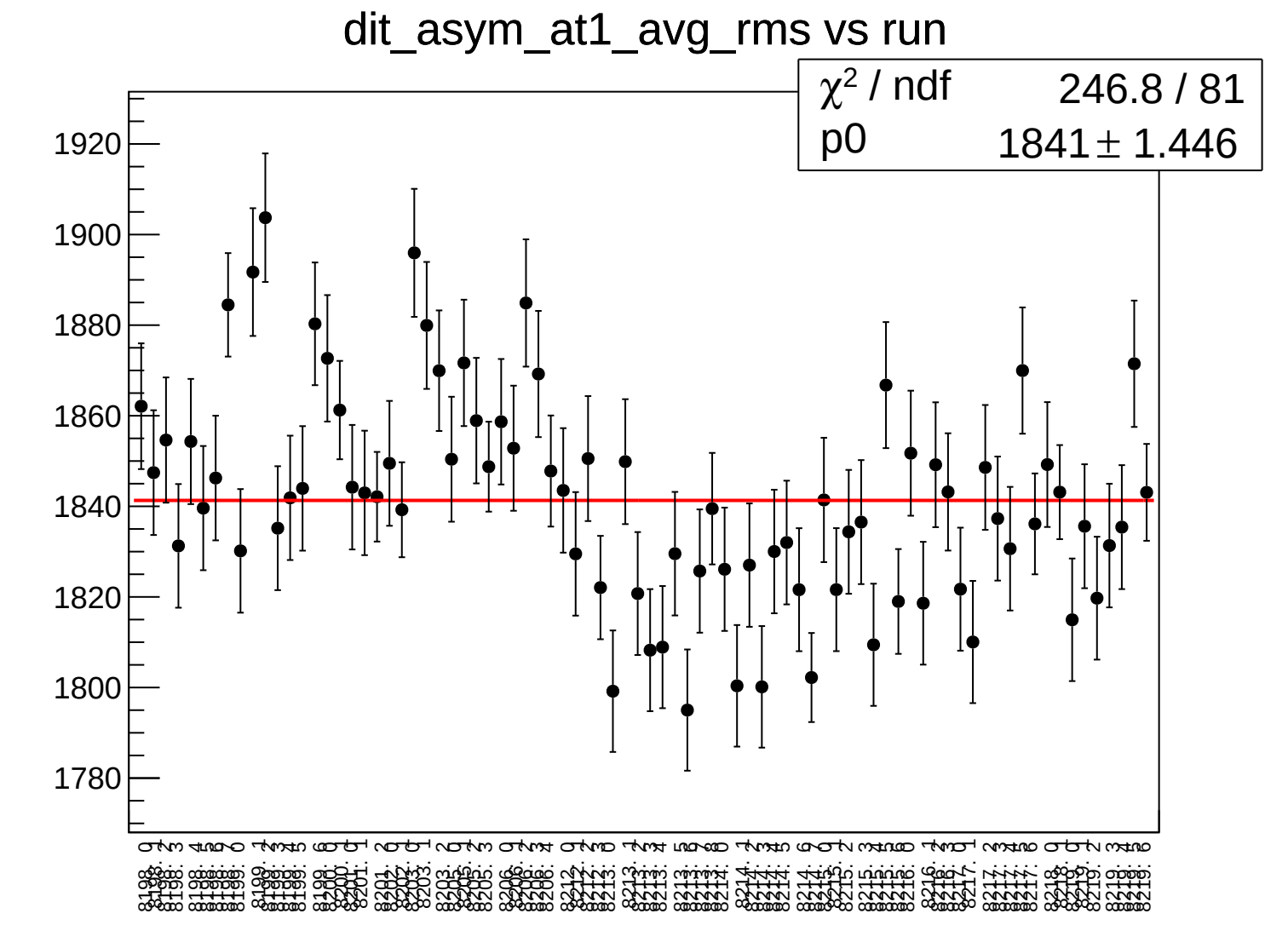

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 133.6 / 81
p0 1826 ± 1.434
1900
1880
1860
1840
1820
1800
1780

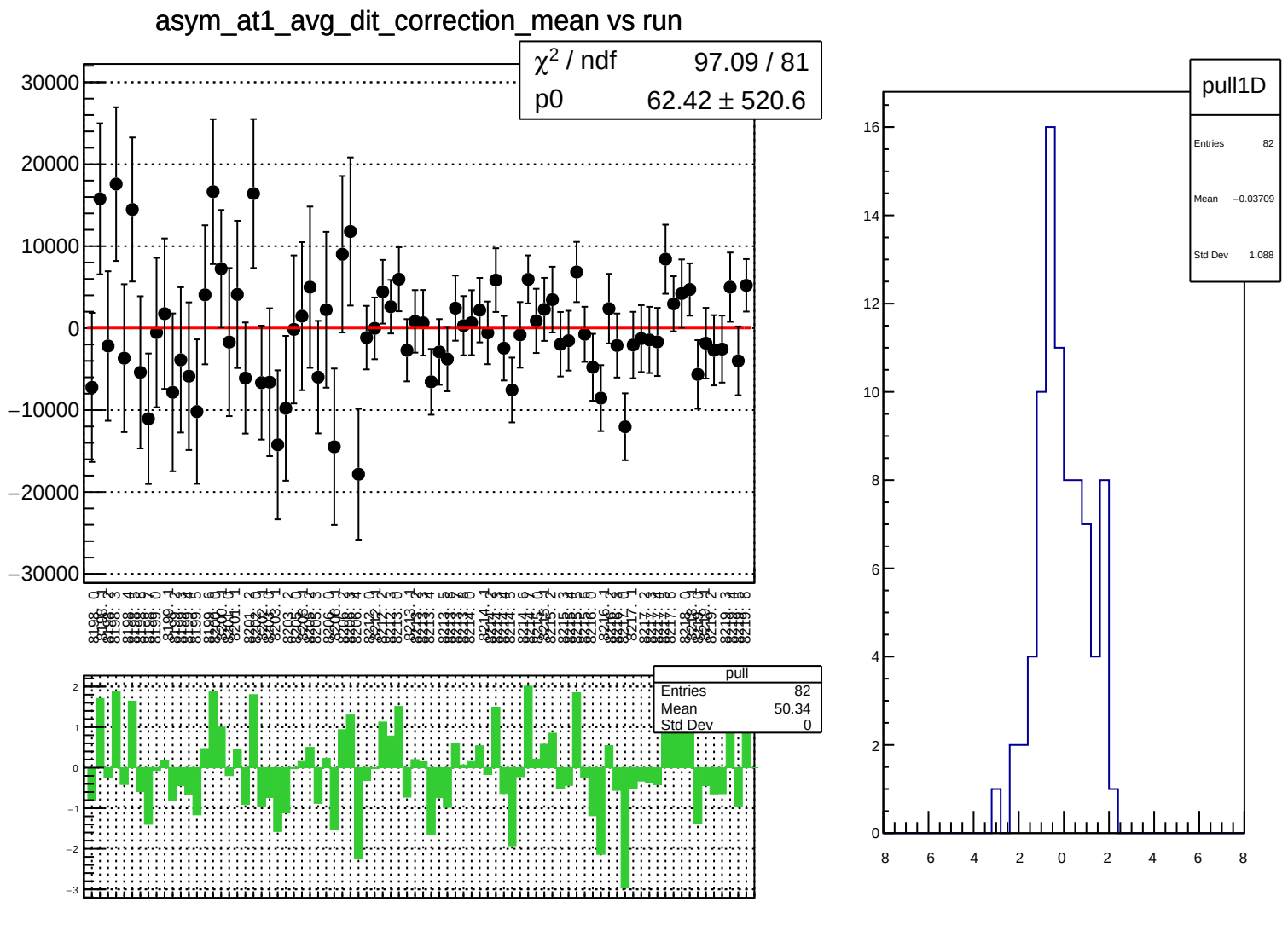

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.35 / 81
p0 20.15 ± 661
pull
Entries 82
Mean 64.95
Std Dev 0
pull1D
Entries 82
Mean −0.02122
Std Dev 1.095

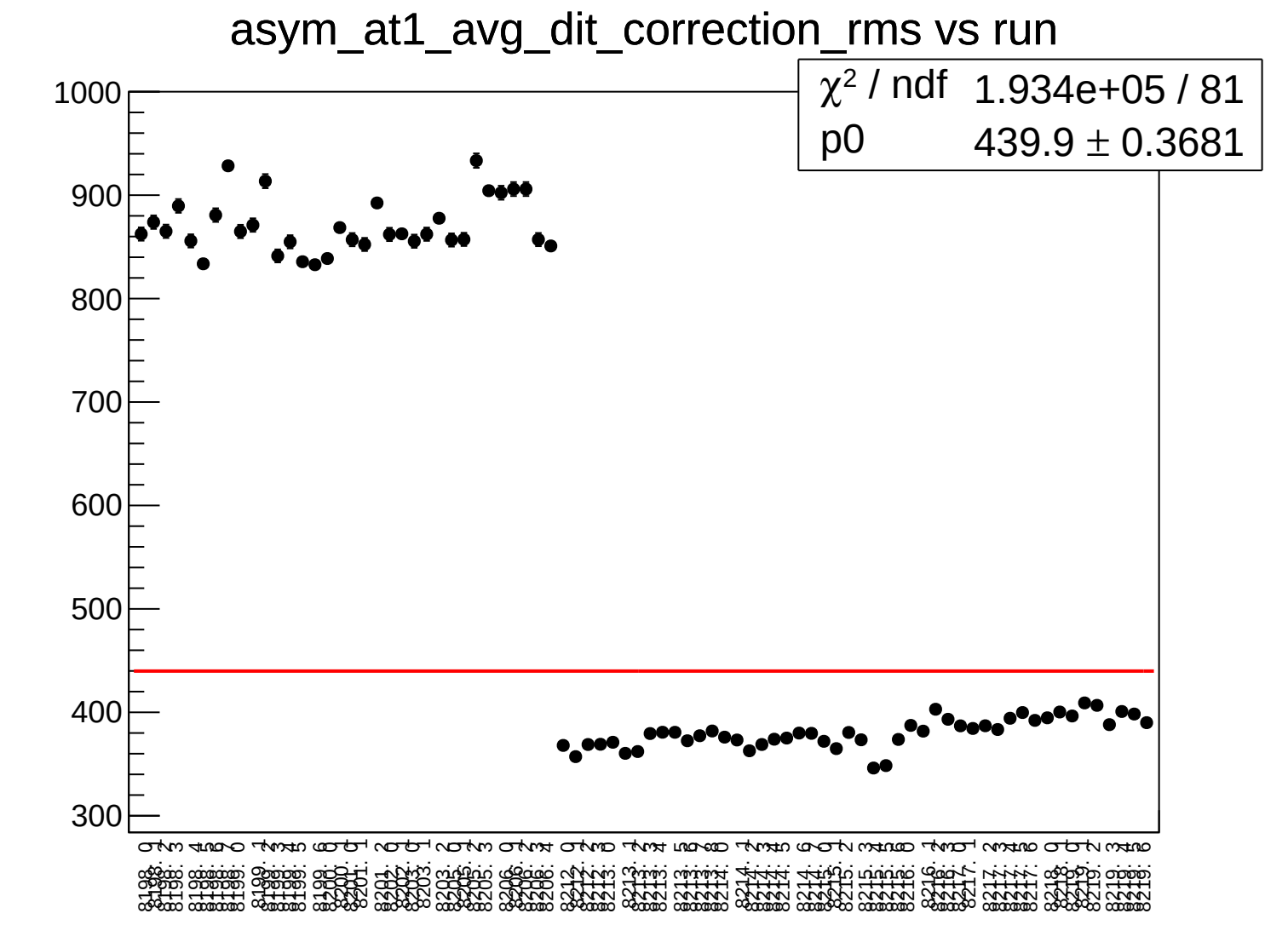

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.576e+05 / 81
p0 565.5 ± 0.4674
1200
1000
800
600
400

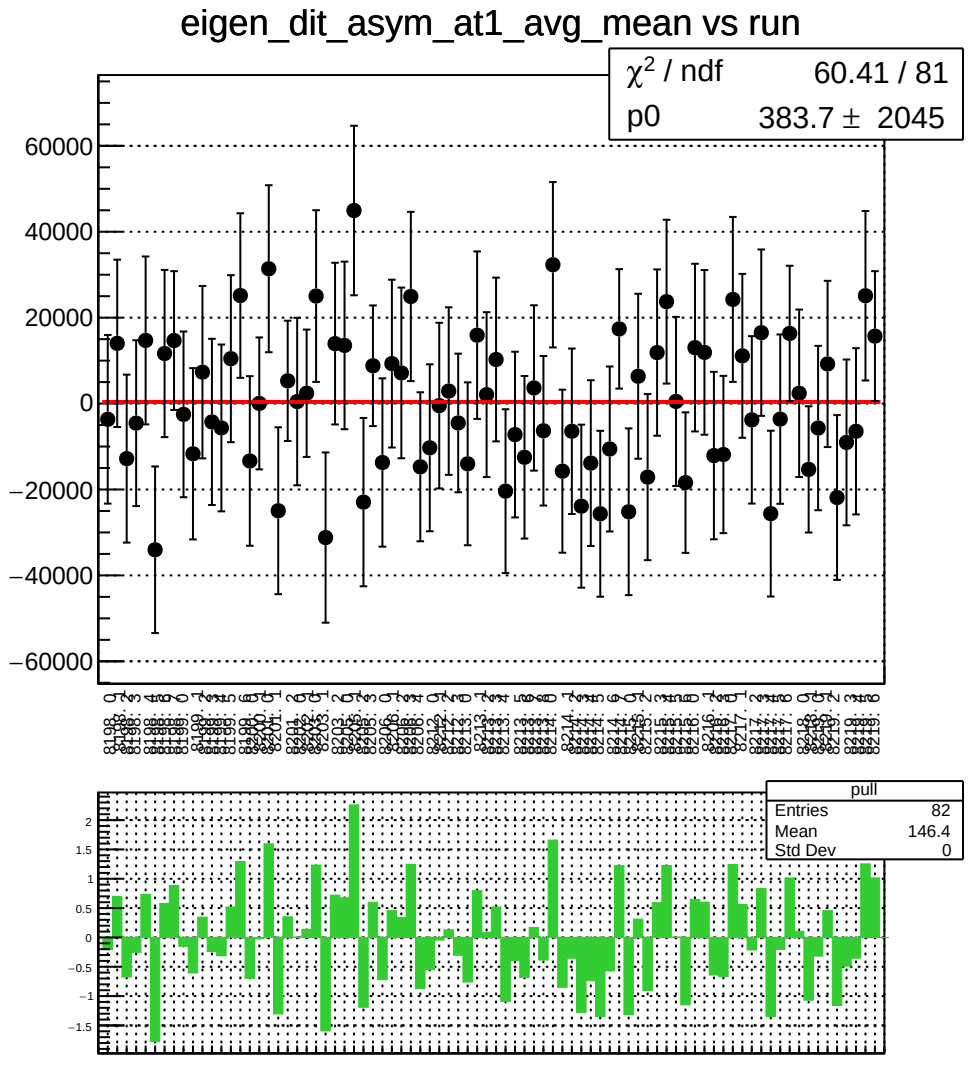

dit_asym_at1_avg_mean vs run
χ² / ndf 60.41 / 81
p0 383.7 ± 2045
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 146.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

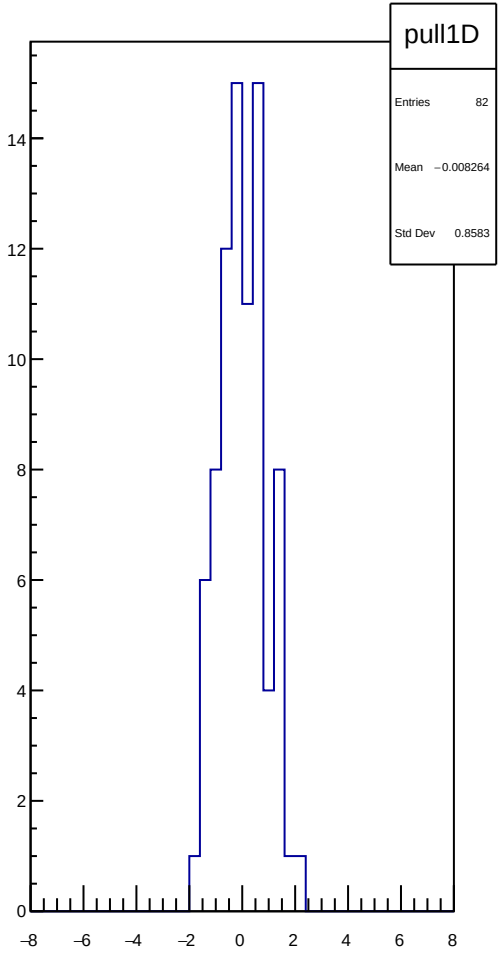

pull1D
Entries 82
Mean −0.008264
Std Dev 0.8583
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

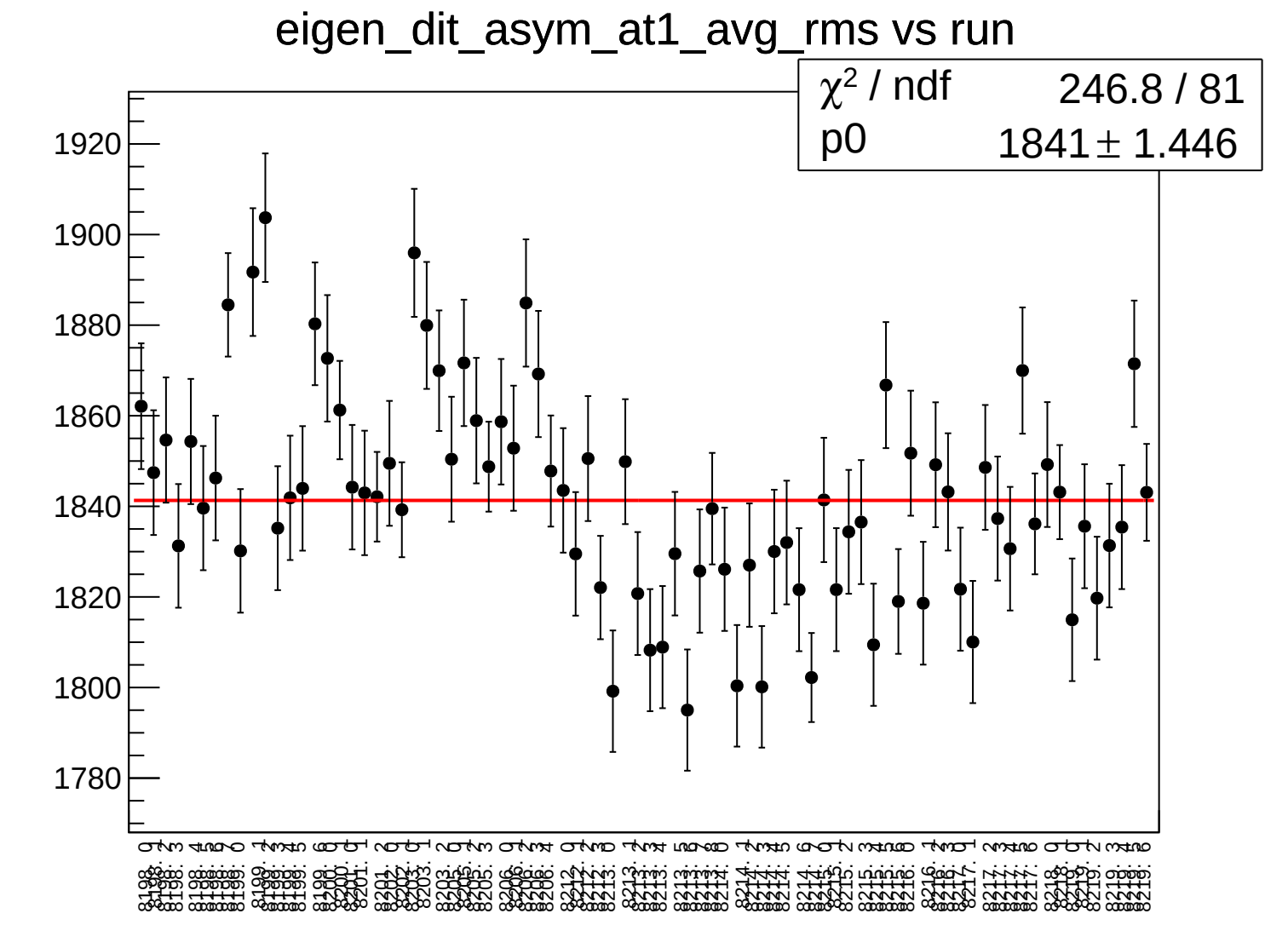

dit_asym_at1_avg_rms vs run
χ² / ndf 246.8 / 81
p0 1841 ± 1.446
1920
1900
1880
1860
1840
1820
1800
1780

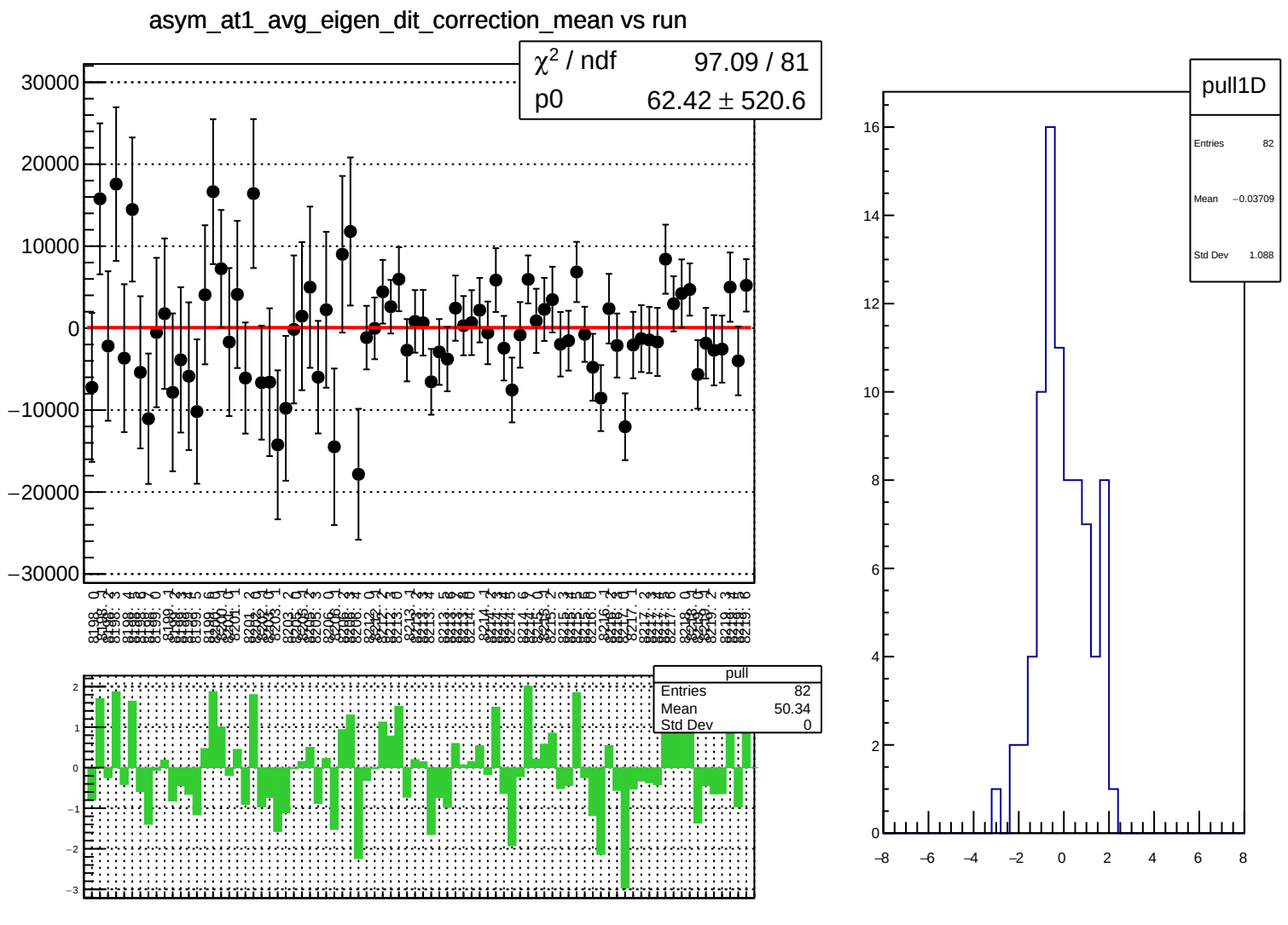

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 97.09 / 81
p0 62.42 ± 520.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 50.34
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.03709
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

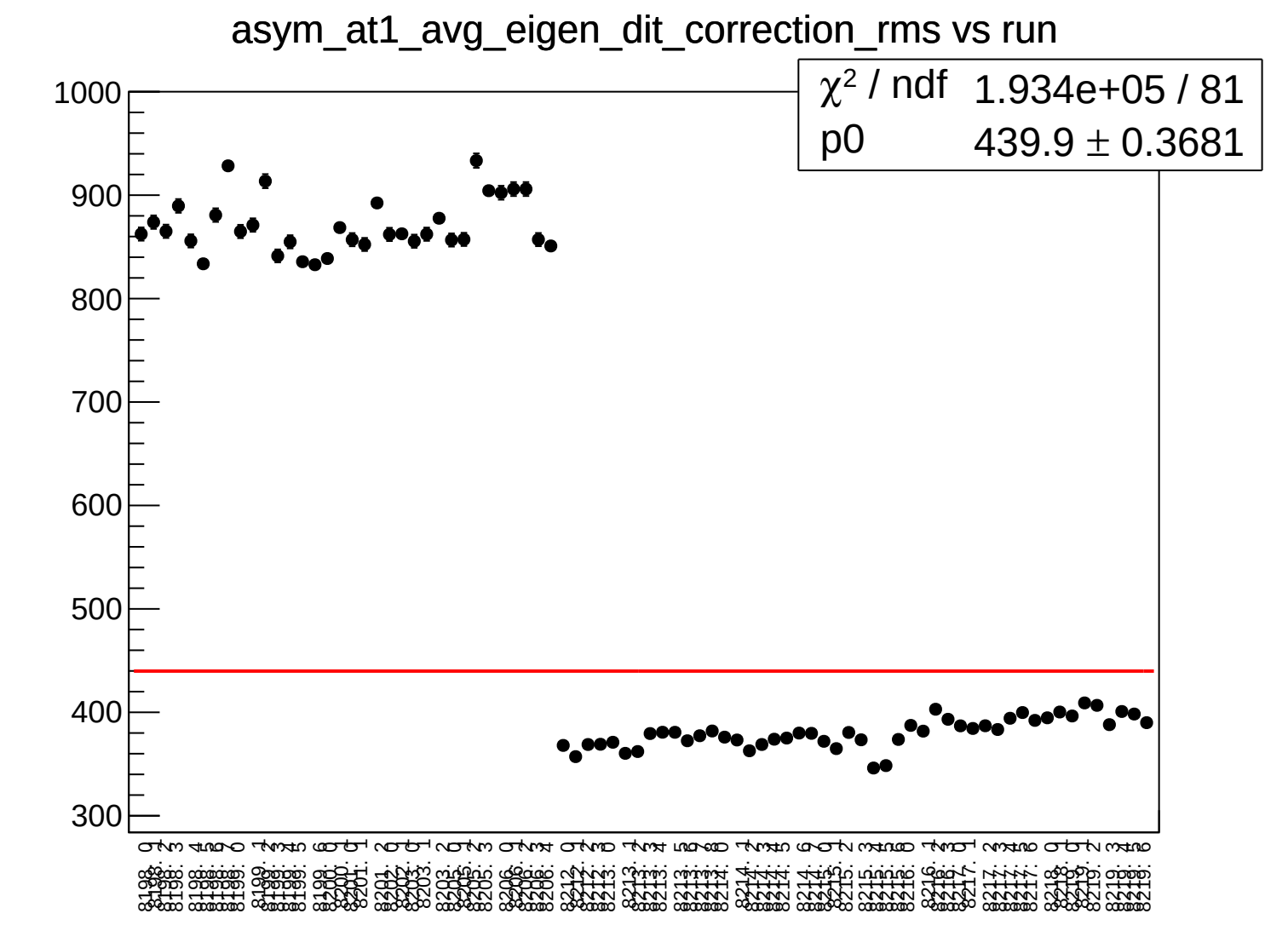

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.934e+05 / 81
p0 439.9 ± 0.3681
1000
900
800
700
600
500
400
300

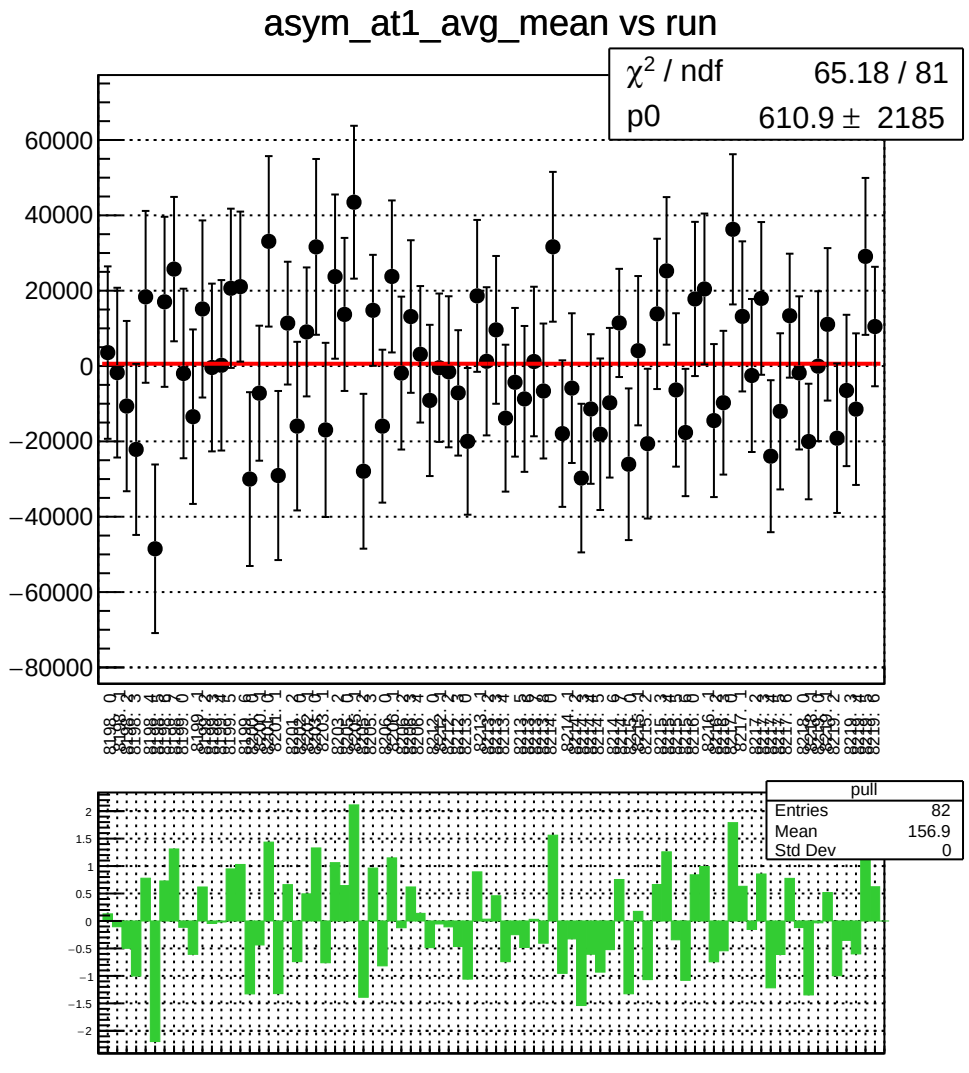

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 60.41 / 81
p0 383.7 ± 2045
pull
Entries 82
Mean 146.4
Std Dev 0

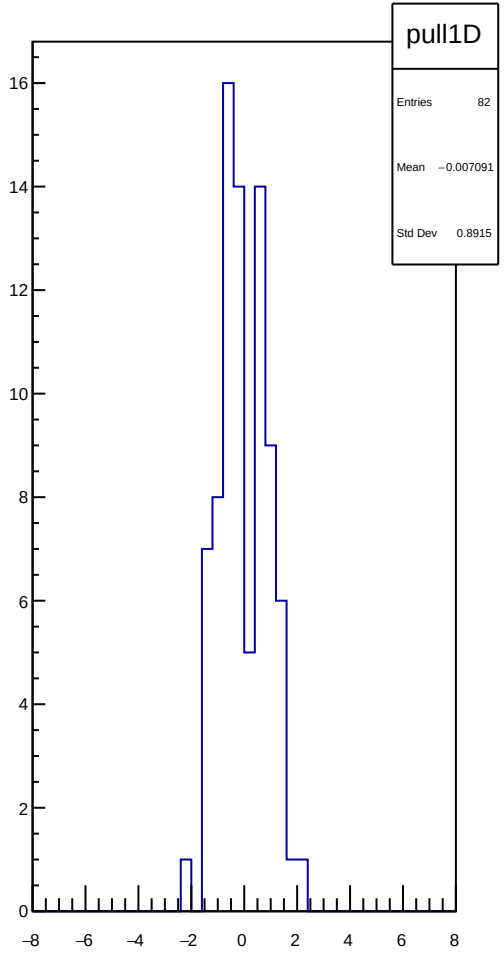

pull1D
Entries 82
Mean −0.008264
Std Dev 0.8583

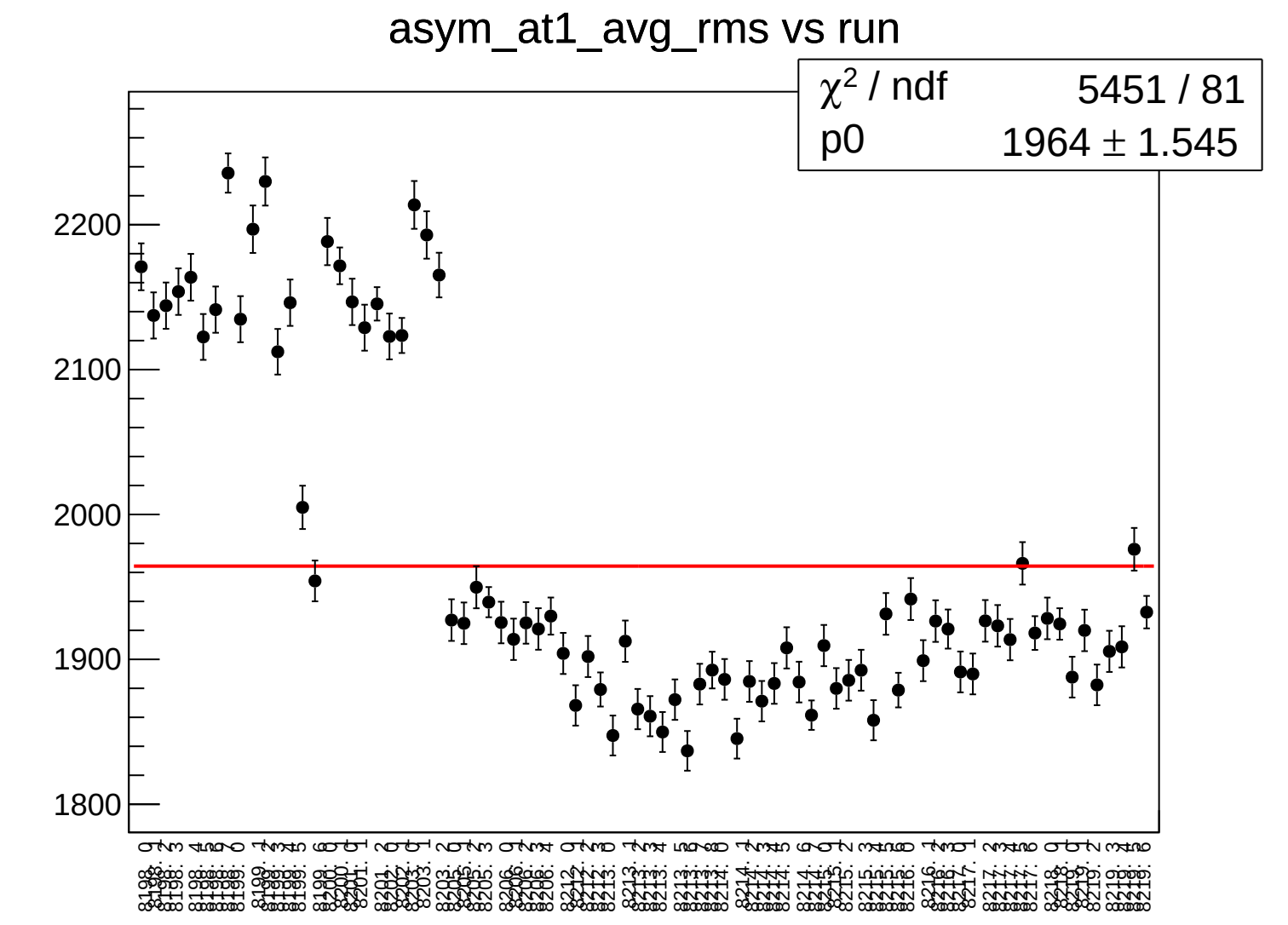

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 246.8 / 81
p0 1841 ± 1.446
1920
1900
1880
1860
1840
1820
1800
1780

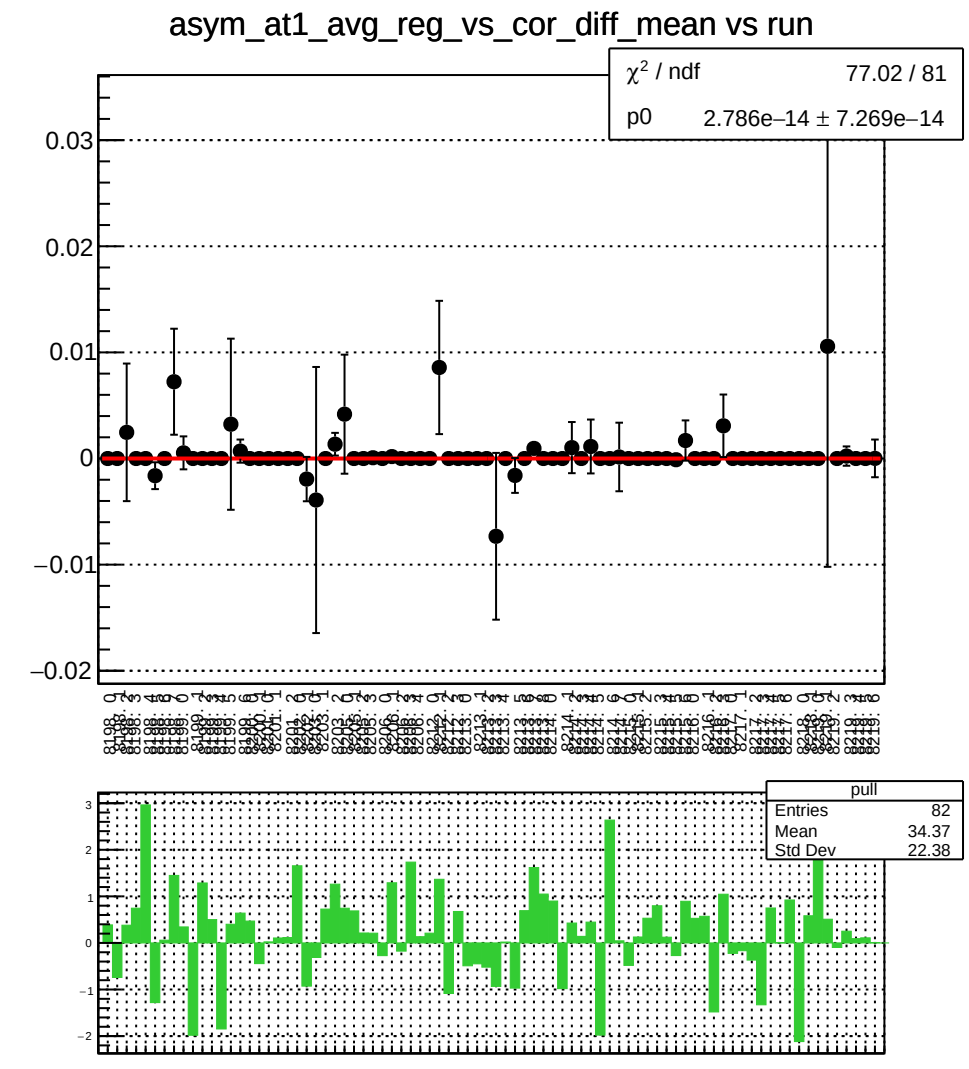

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.09 / 81
p0 62.42 ± 520.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 50.34
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.03709
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

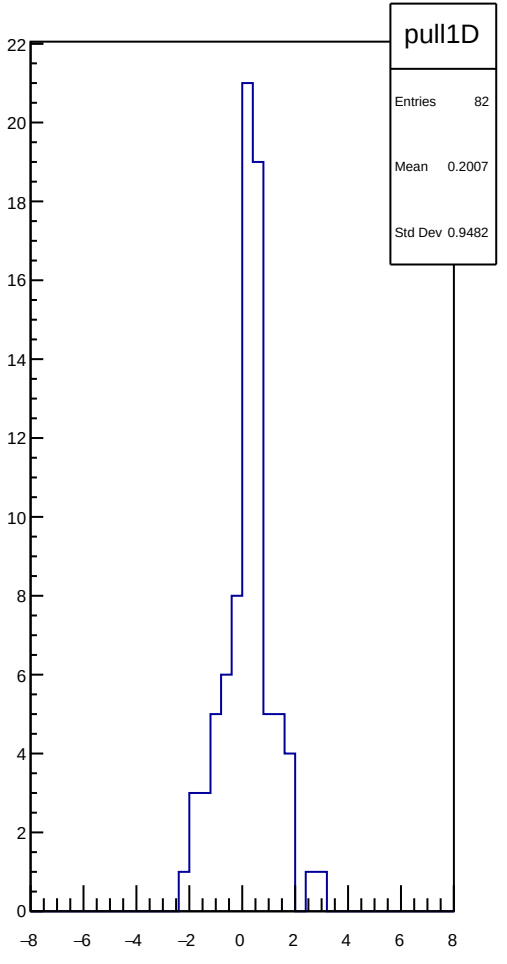

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.934e+05 / 81
p0 439.9 ± 0.3681
1000
900
800
700
600
500
400
300

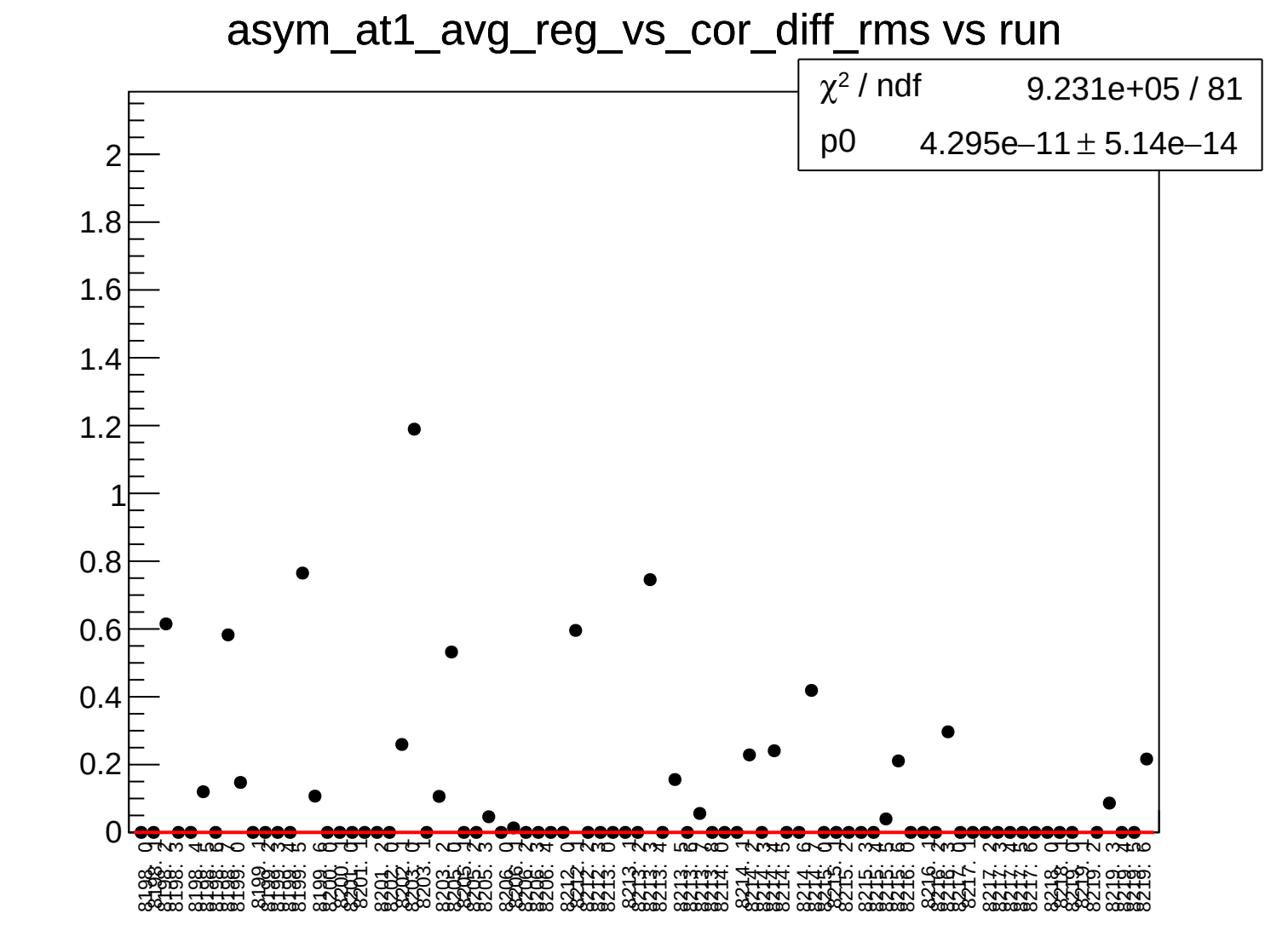

asym_at1_avg_mean vs run
χ² / ndf 65.18 / 81
p0 610.9 ± 2185
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 156.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

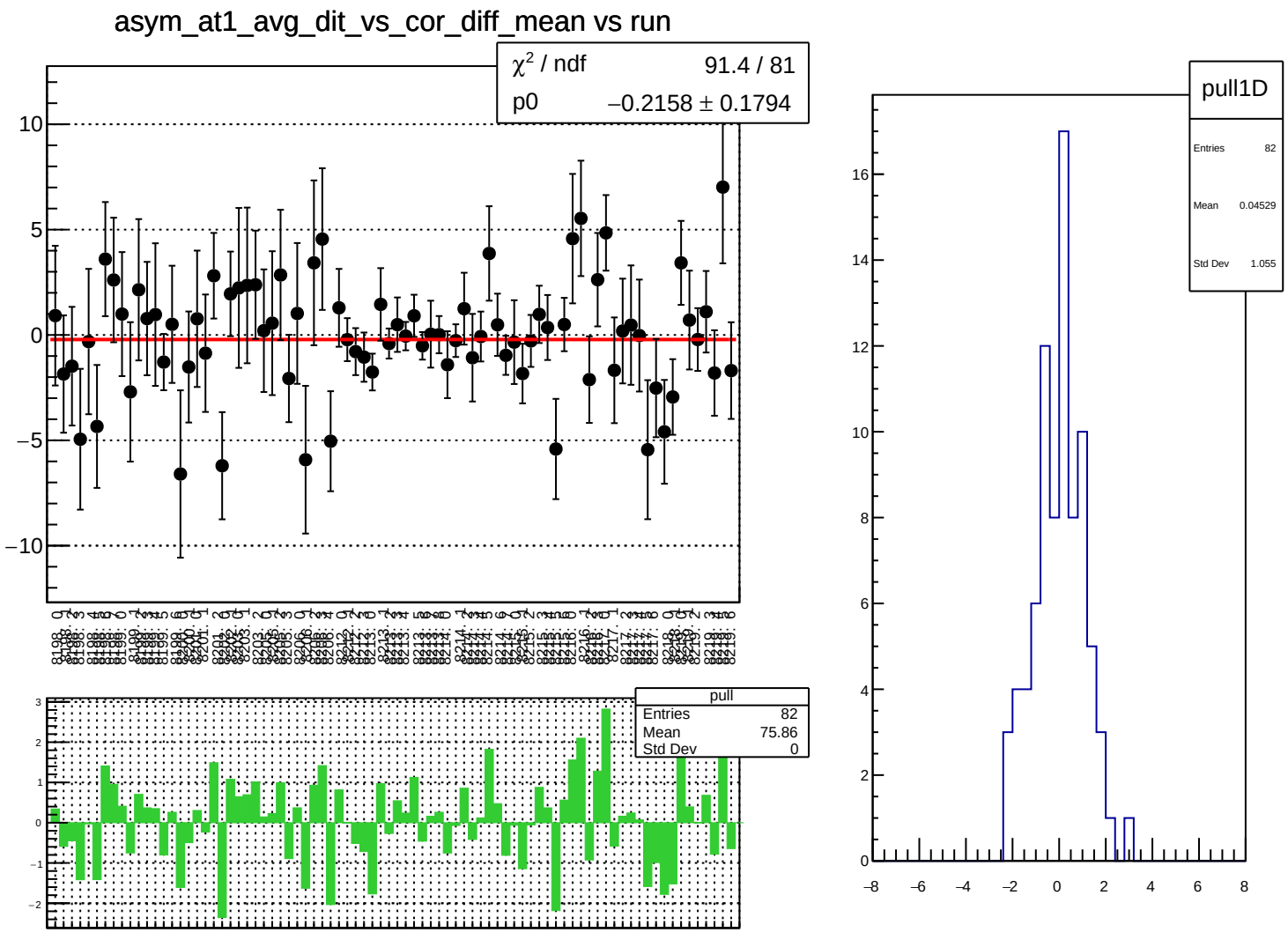

pull1D
Entries 82
Mean −0.007091
Std Dev 0.8915
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

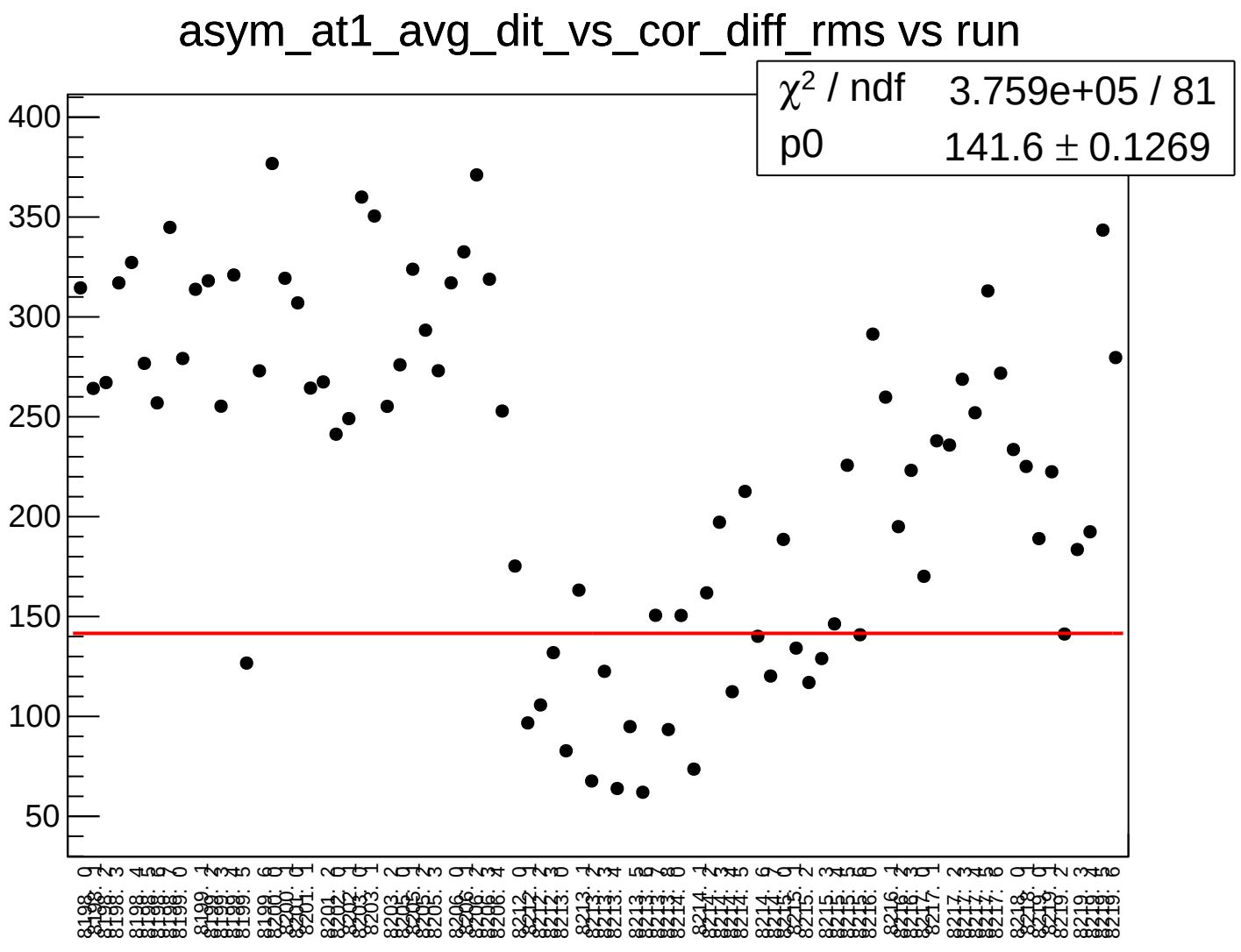

asym_at1_avg_rms vs run
χ² / ndf 5451 / 81
p0 1964 ± 1.545
2200
2100
2000
1900
1800

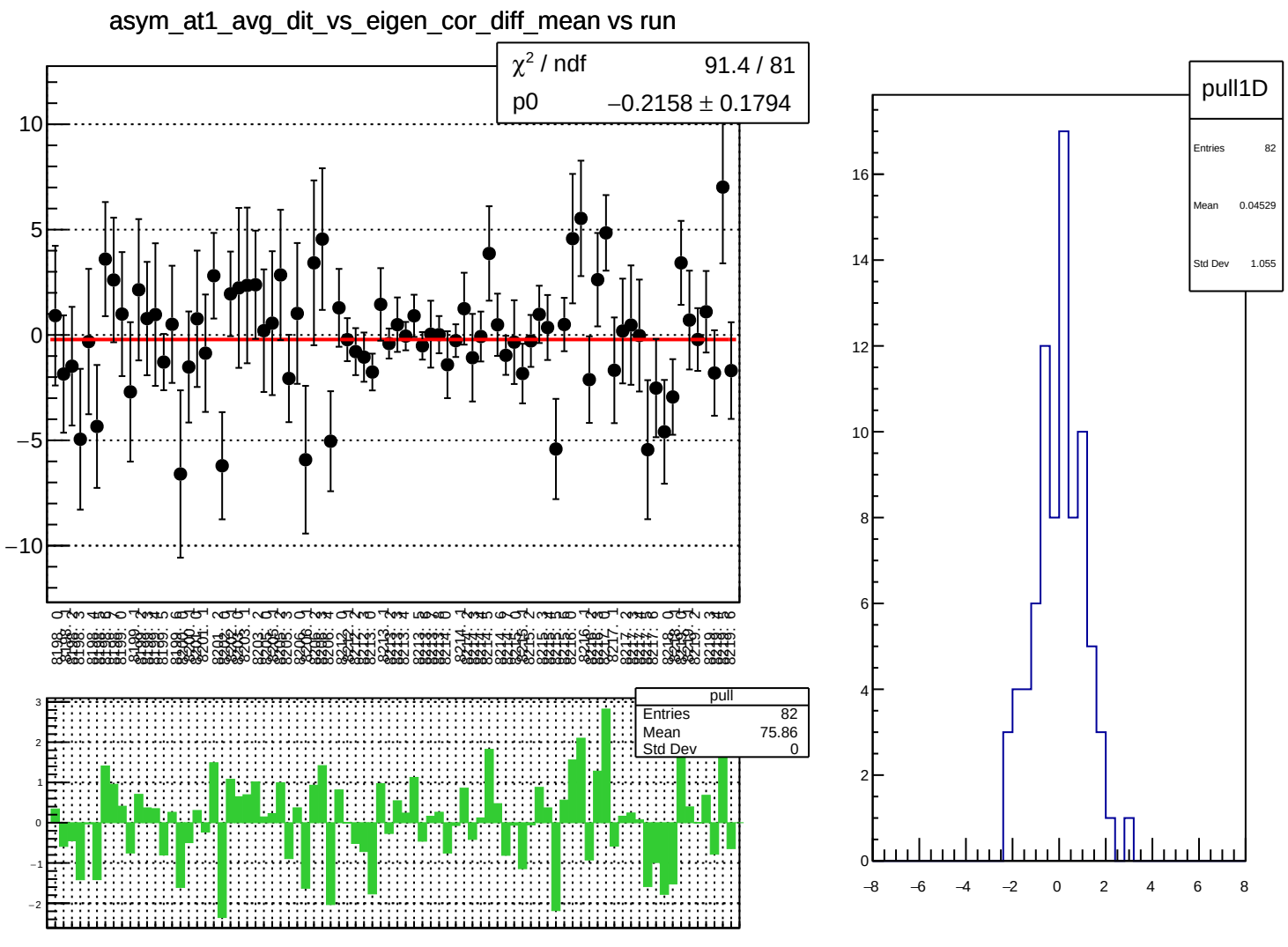

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.02 / 81
p0 2.786e−14 ± 7.269e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean 34.37
Std Dev 22.38
3
2
1
0
−1
−2

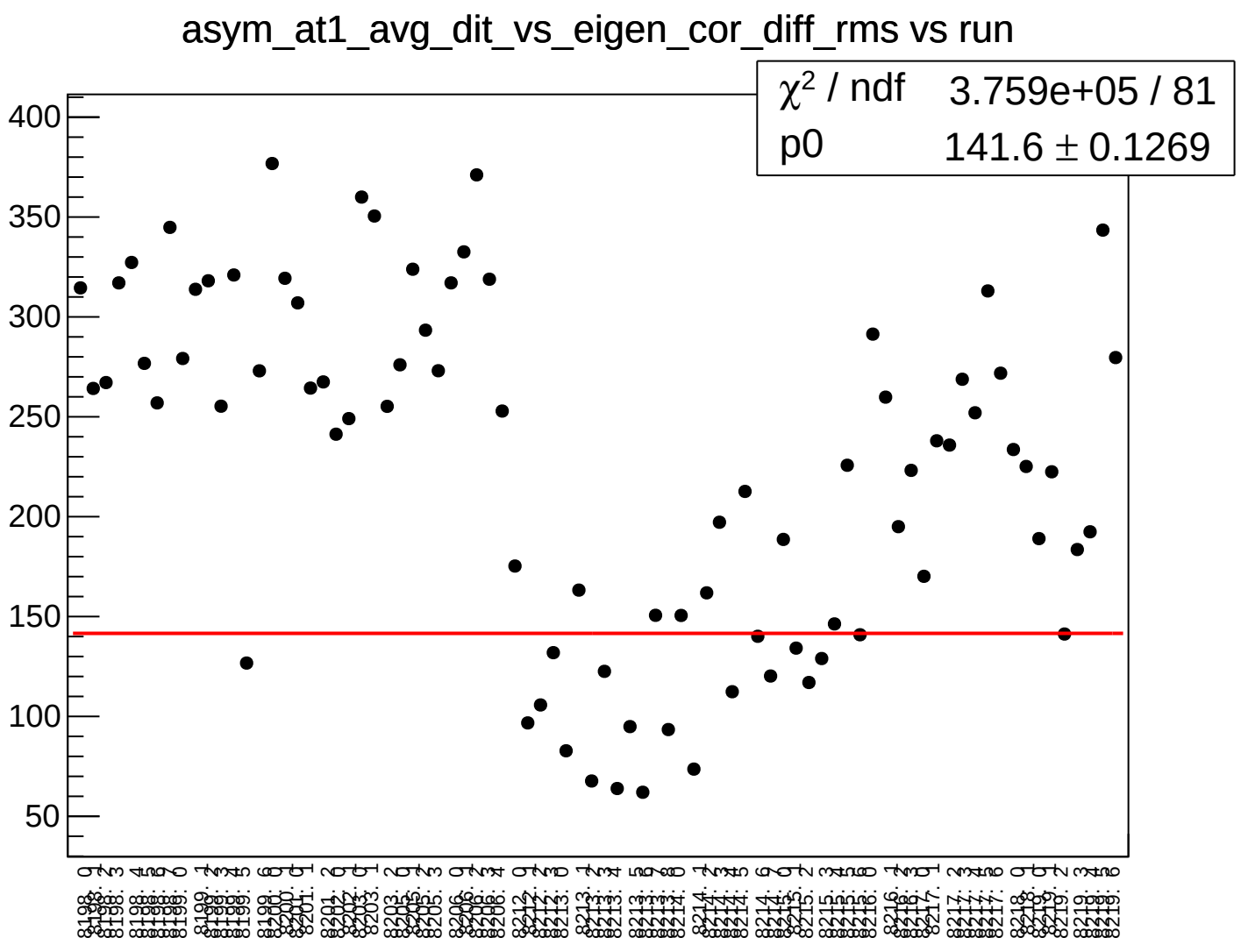

pull1D
Entries 82
Mean 0.2007
Std Dev 0.9482
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

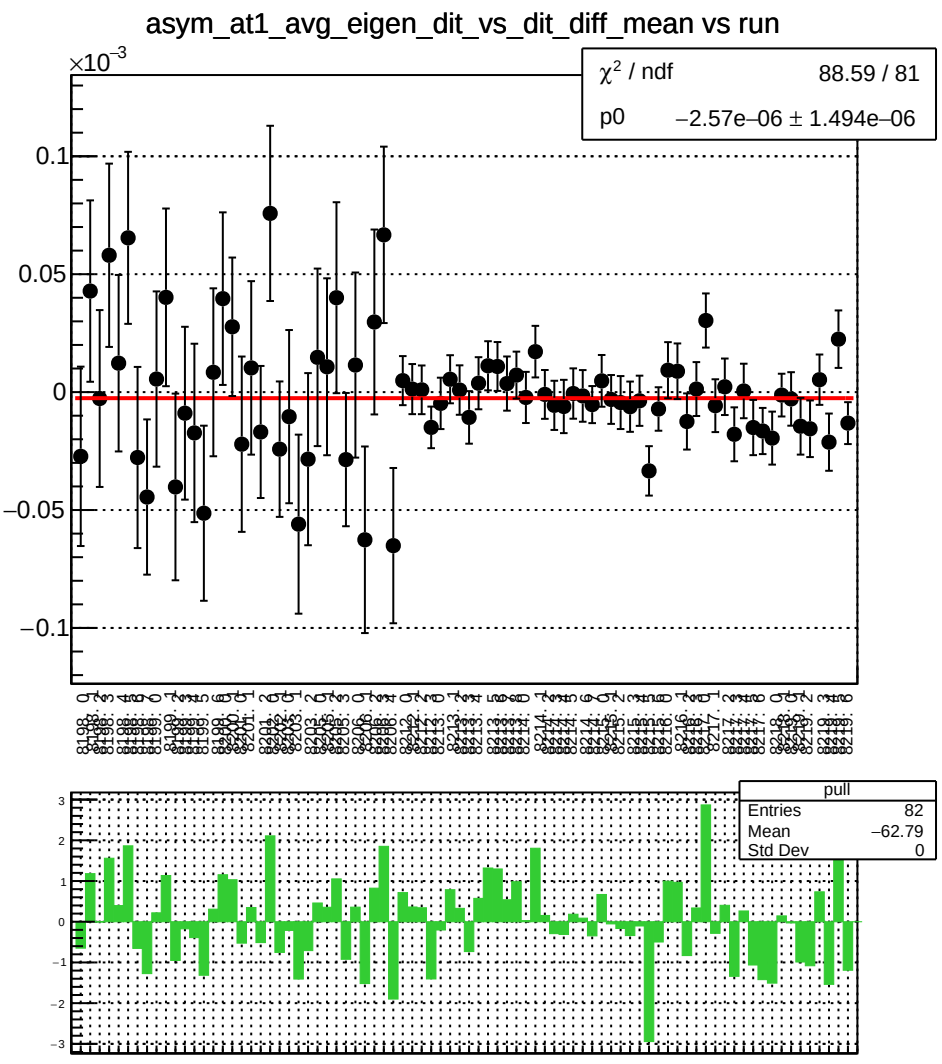

asym_at1_avg_reg_vs_cor_diff_rms vs run
$\chi^2$ / ndf 9.231e+05 / 81
p0 4.295e−11 ± 5.14e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

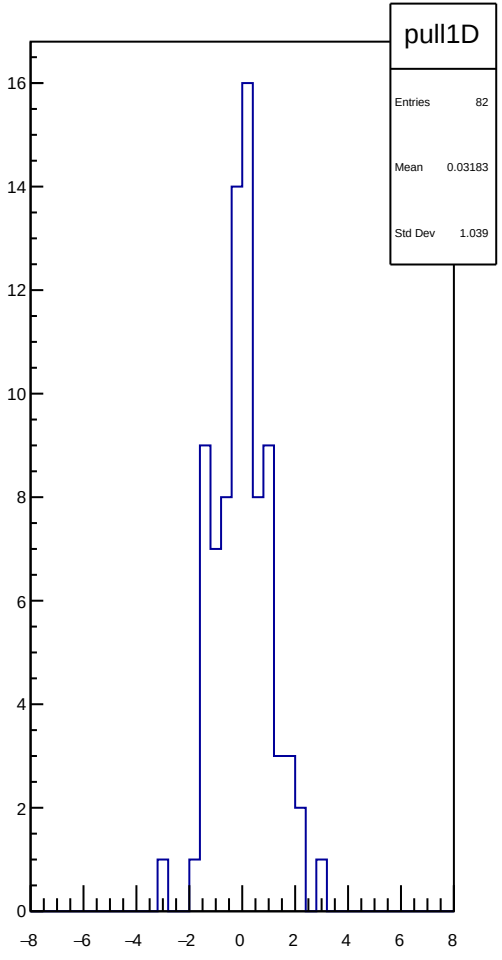

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.4 / 81
p0 −0.2158 ± 0.1794
pull
Entries 82
Mean 75.86
Std Dev 0
pull1D
Entries 82
Mean 0.04529
Std Dev 1.055

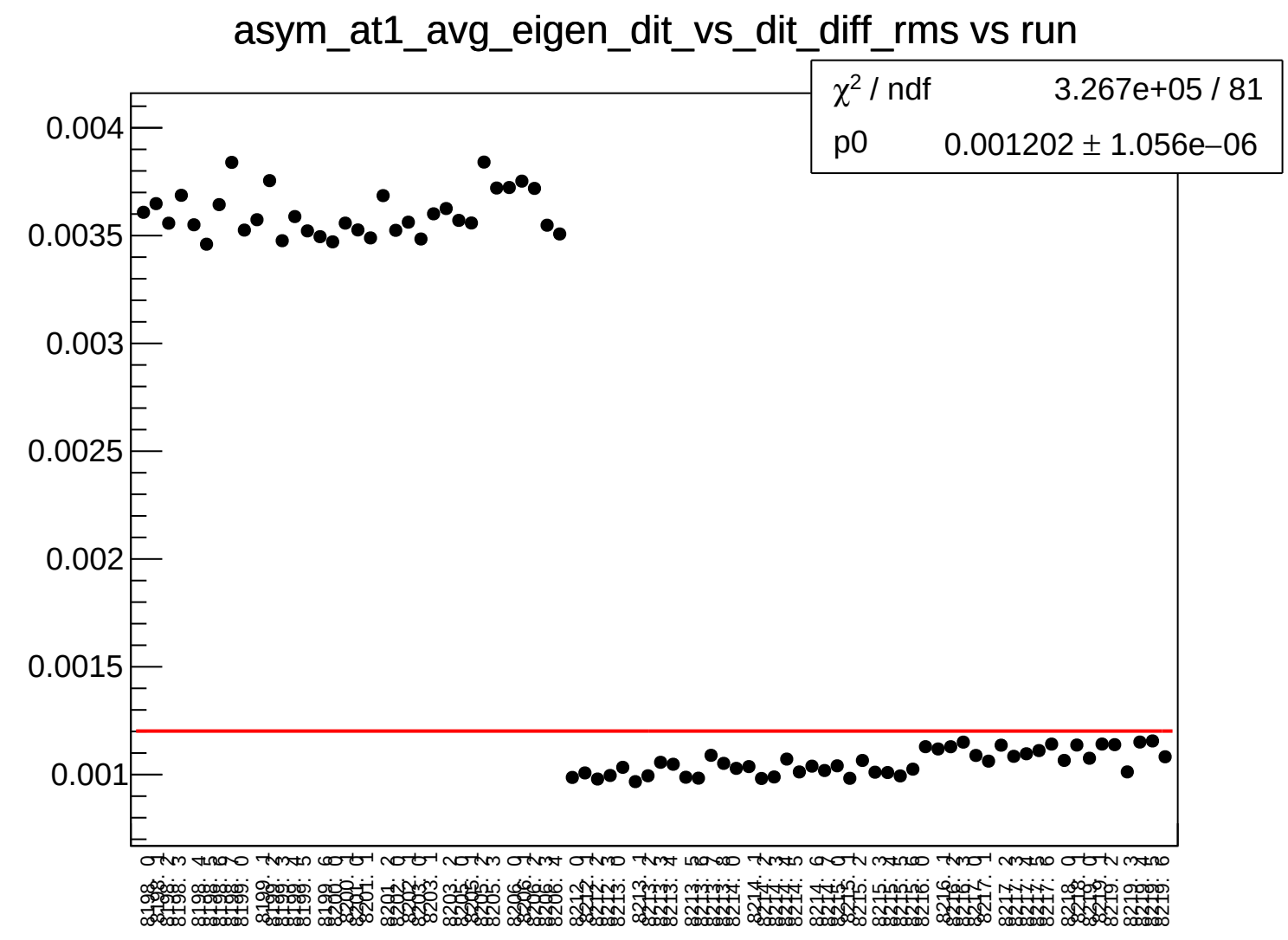

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.759e+05 / 81
p0 141.6 ± 0.1269
400
350
300
250
200
150
100
50

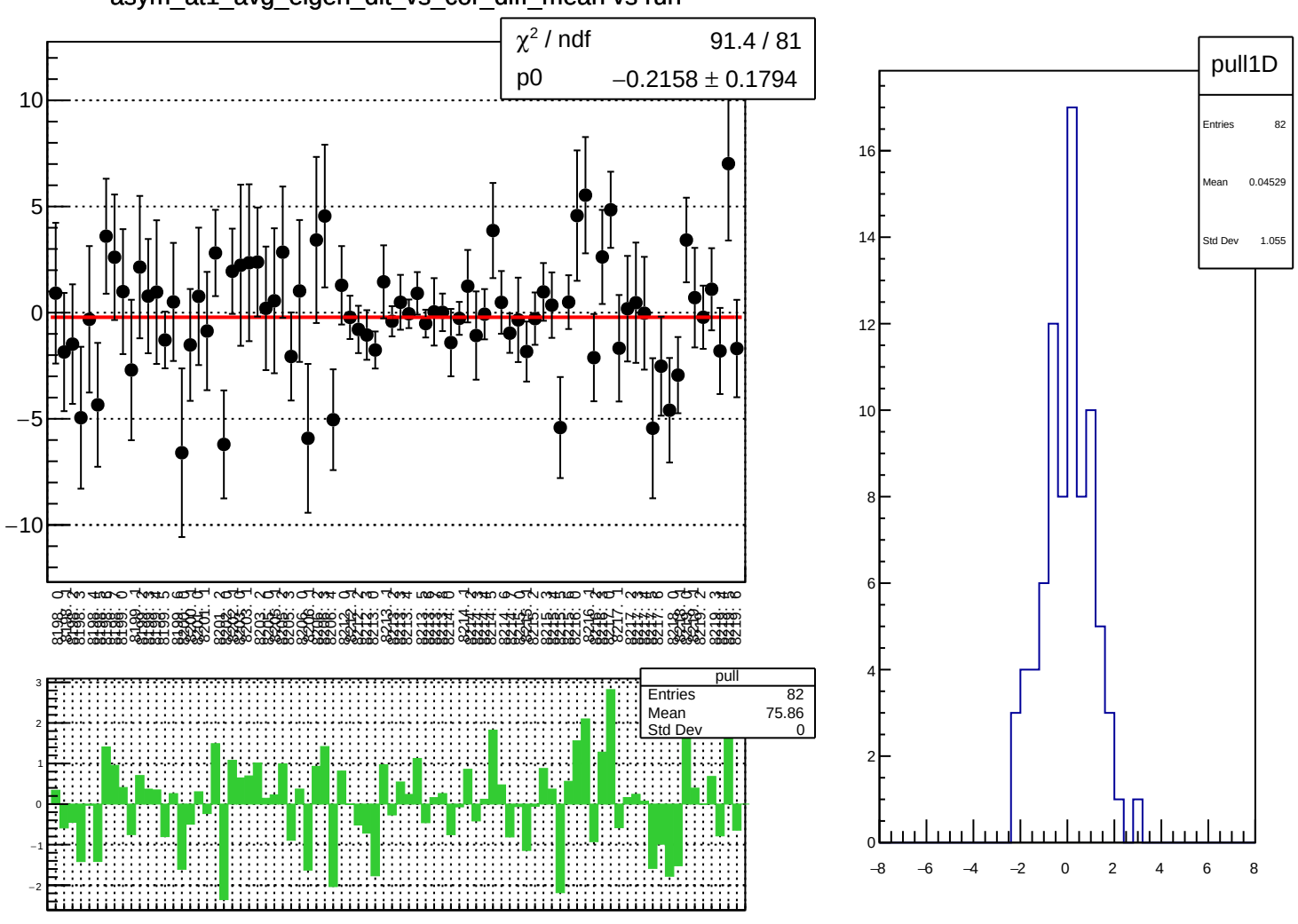

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.4 / 81
p0 −0.2158 ± 0.1794
pull
Entries 82
Mean 75.86
Std Dev 0
pull1D
Entries 82
Mean 0.04529
Std Dev 1.055

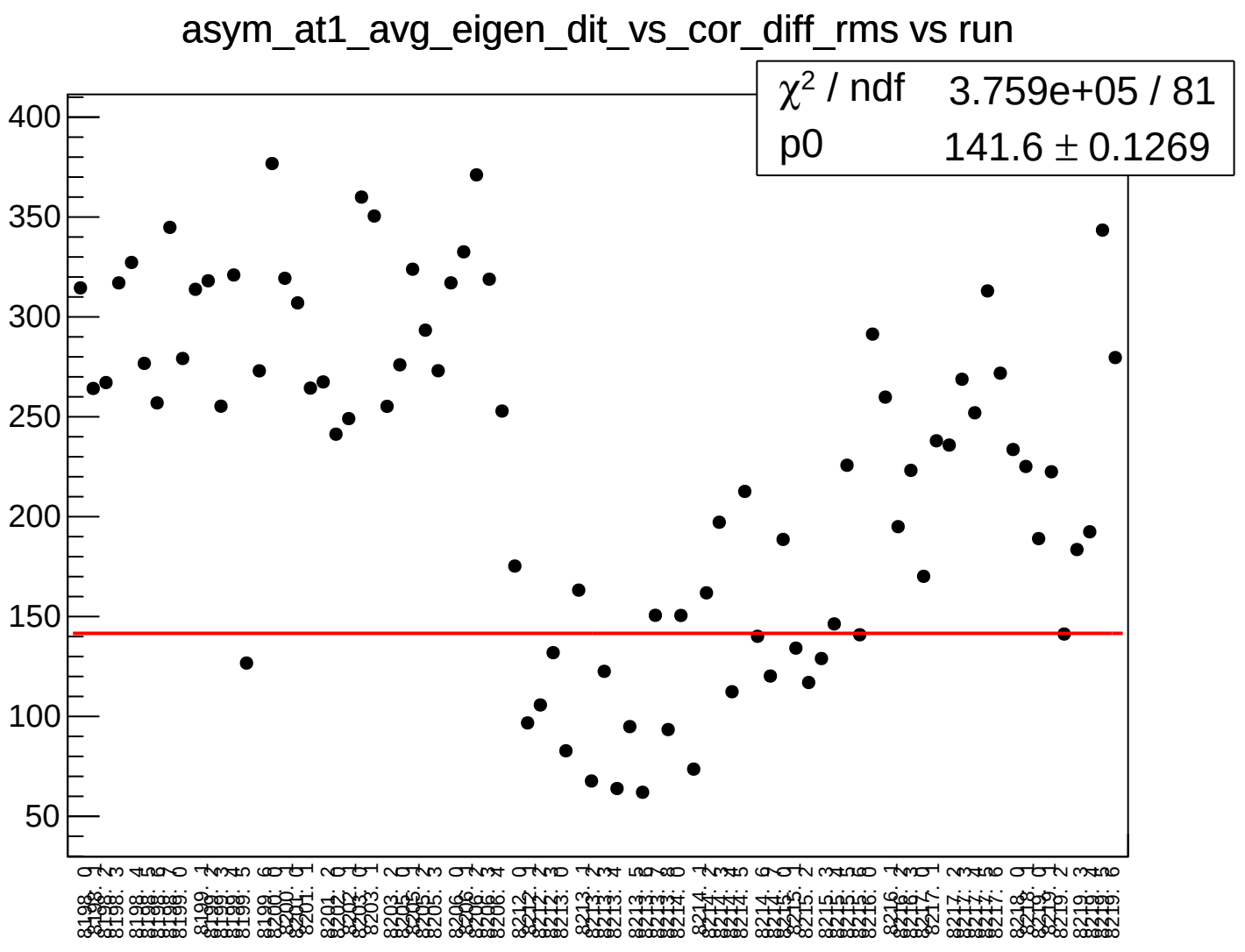

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.759e+05 / 81
p0 141.6 ± 0.1269
400
350
300
250
200
150
100
50

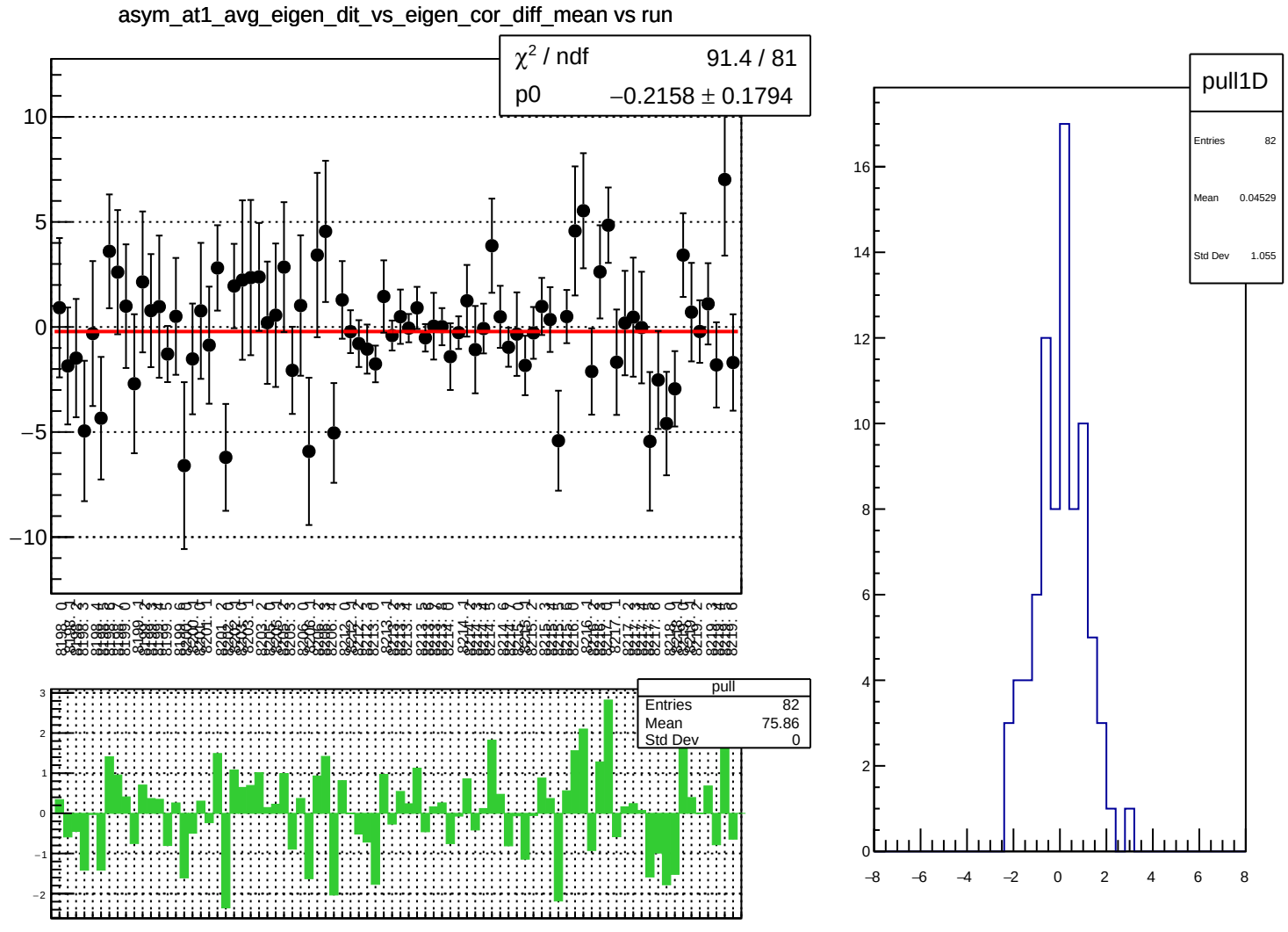

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.59 / 81
p0 −2.57e−06 ± 1.494e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean −62.79
Std Dev 0
3
2
1
0
−1
−2
−3

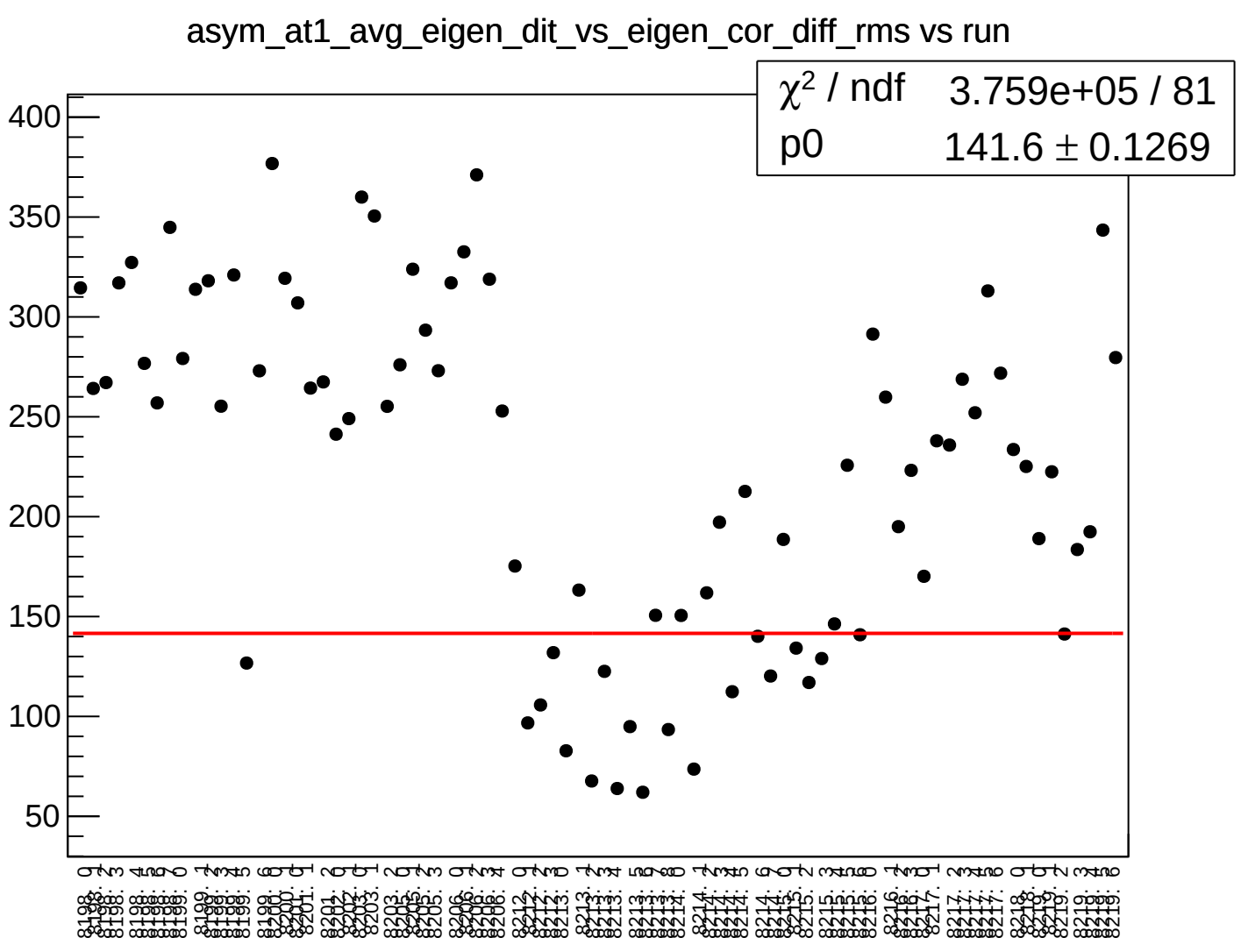

pull1D
Entries 82
Mean 0.03183
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

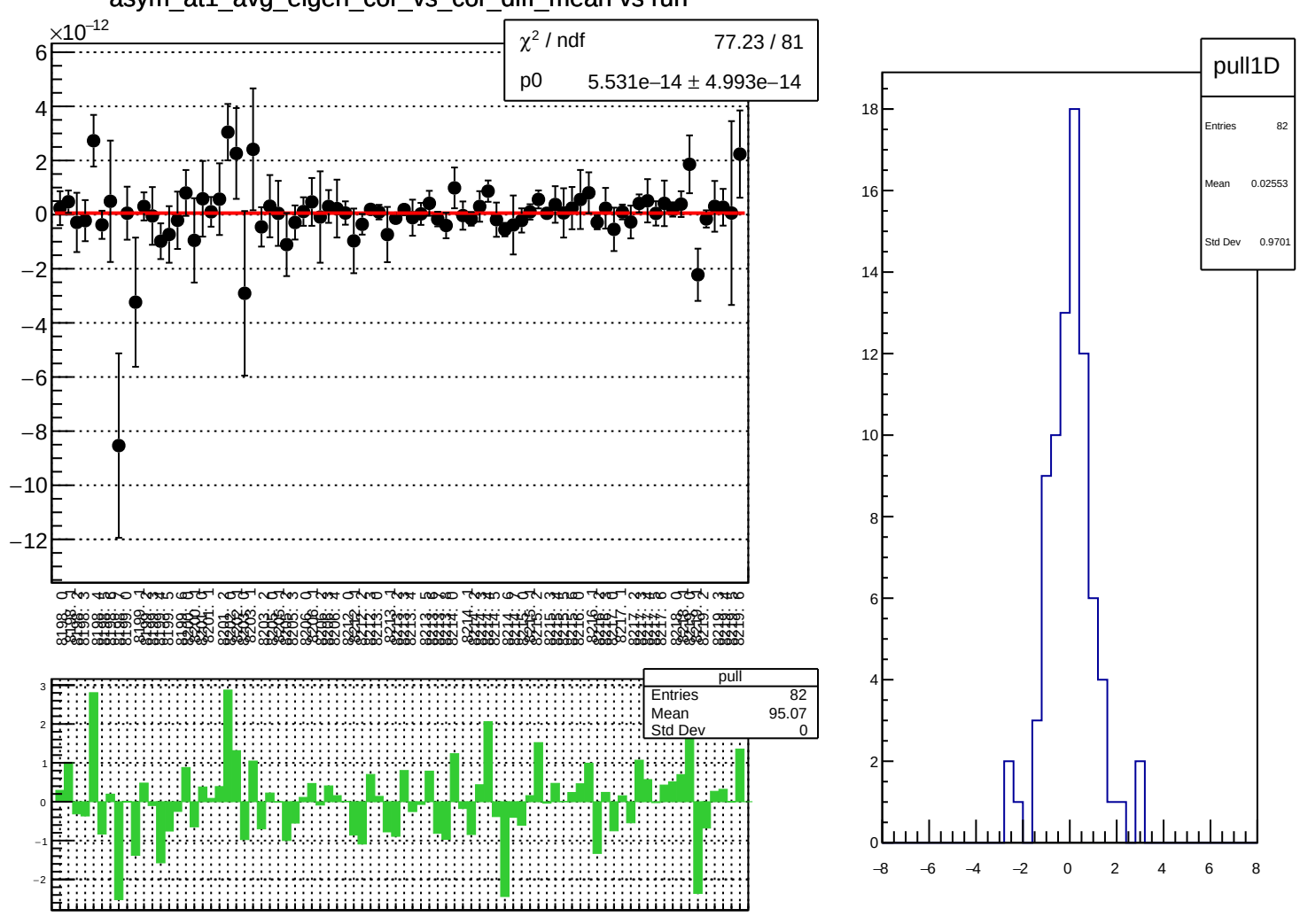

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.267e+05 / 81
p0 0.001202 ± 1.056e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

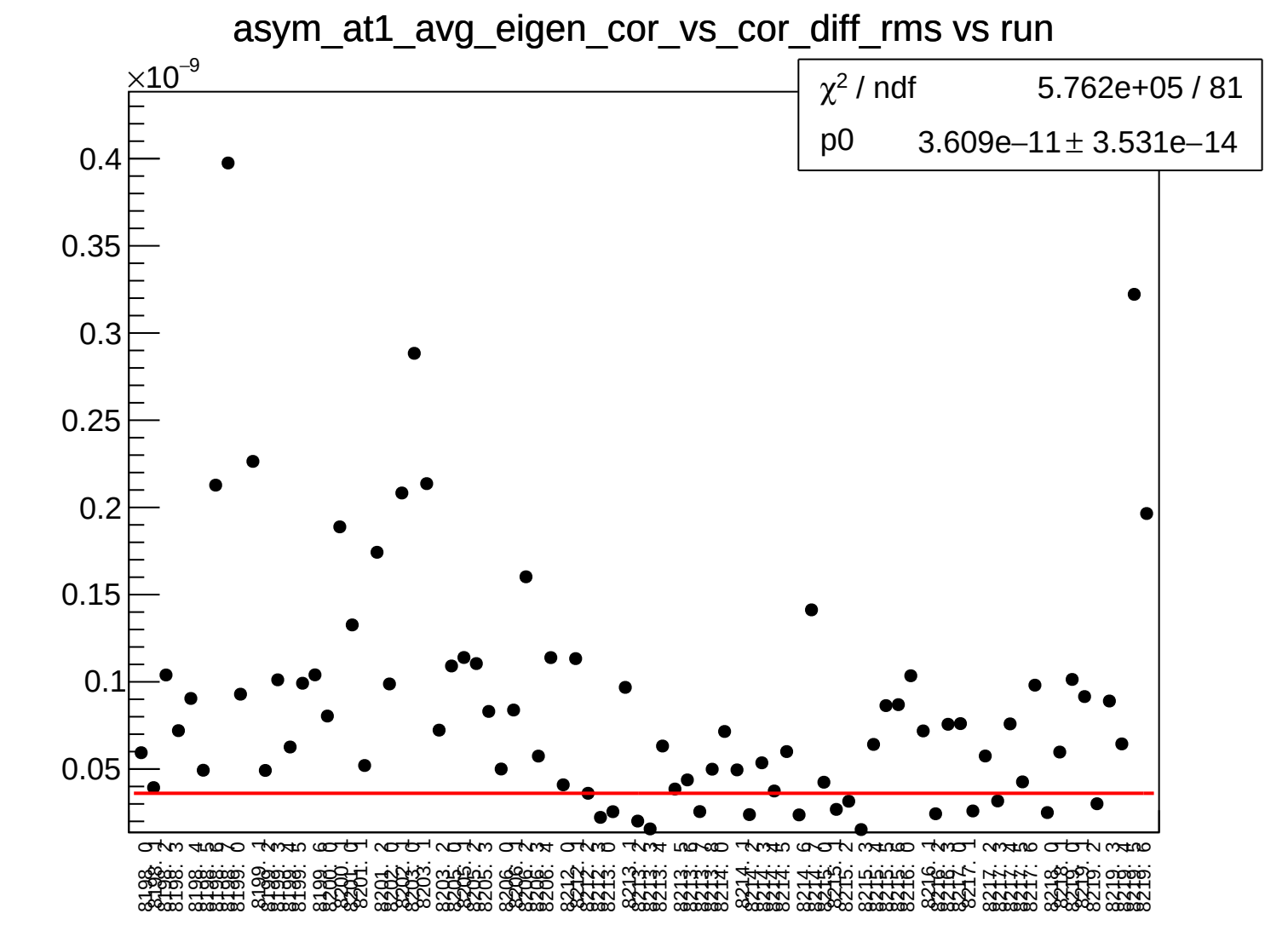

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.4 / 81
p0 −0.2158 ± 0.1794
pull
Entries 82
Mean 75.86
Std Dev 0
pull1D
Entries 82
Mean 0.04529
Std Dev 1.055

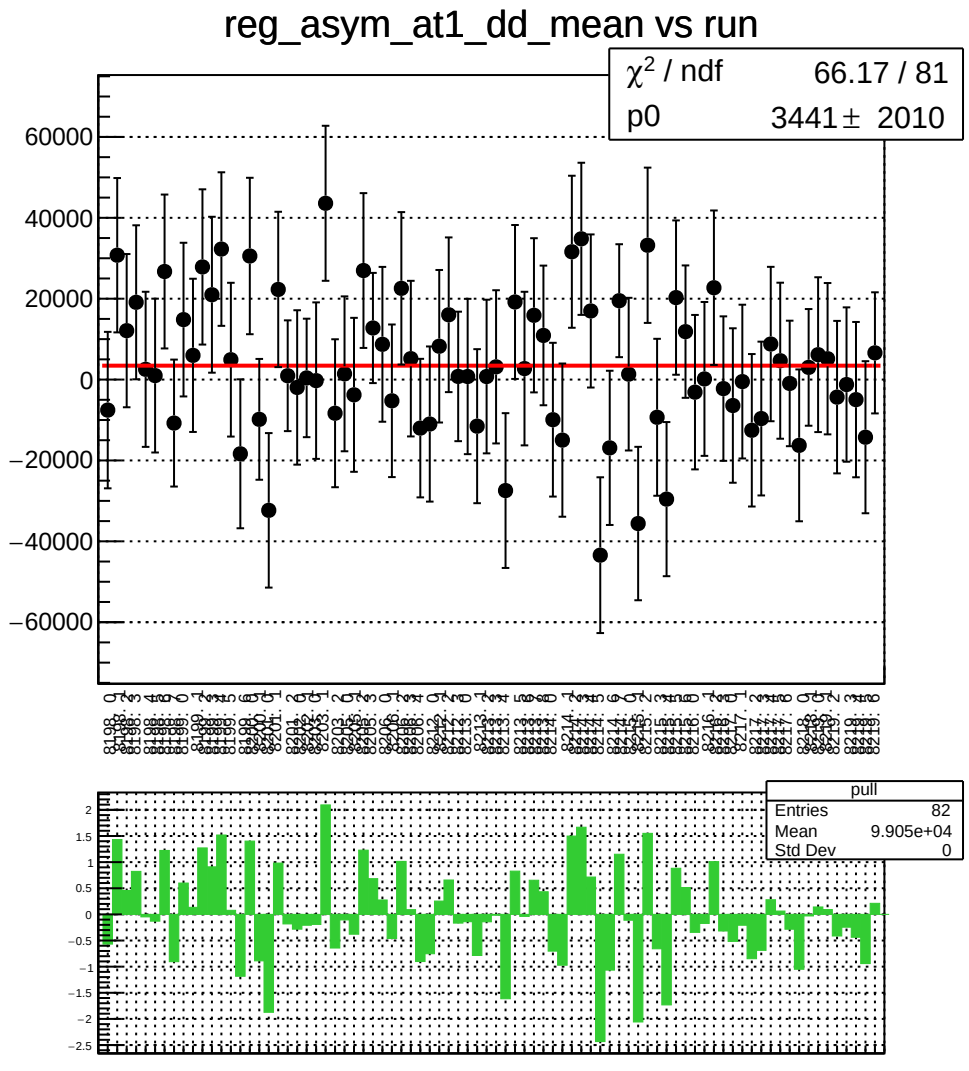

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.759e+05 / 81
p0 141.6 ± 0.1269
400
350
300
250
200
150
100
50

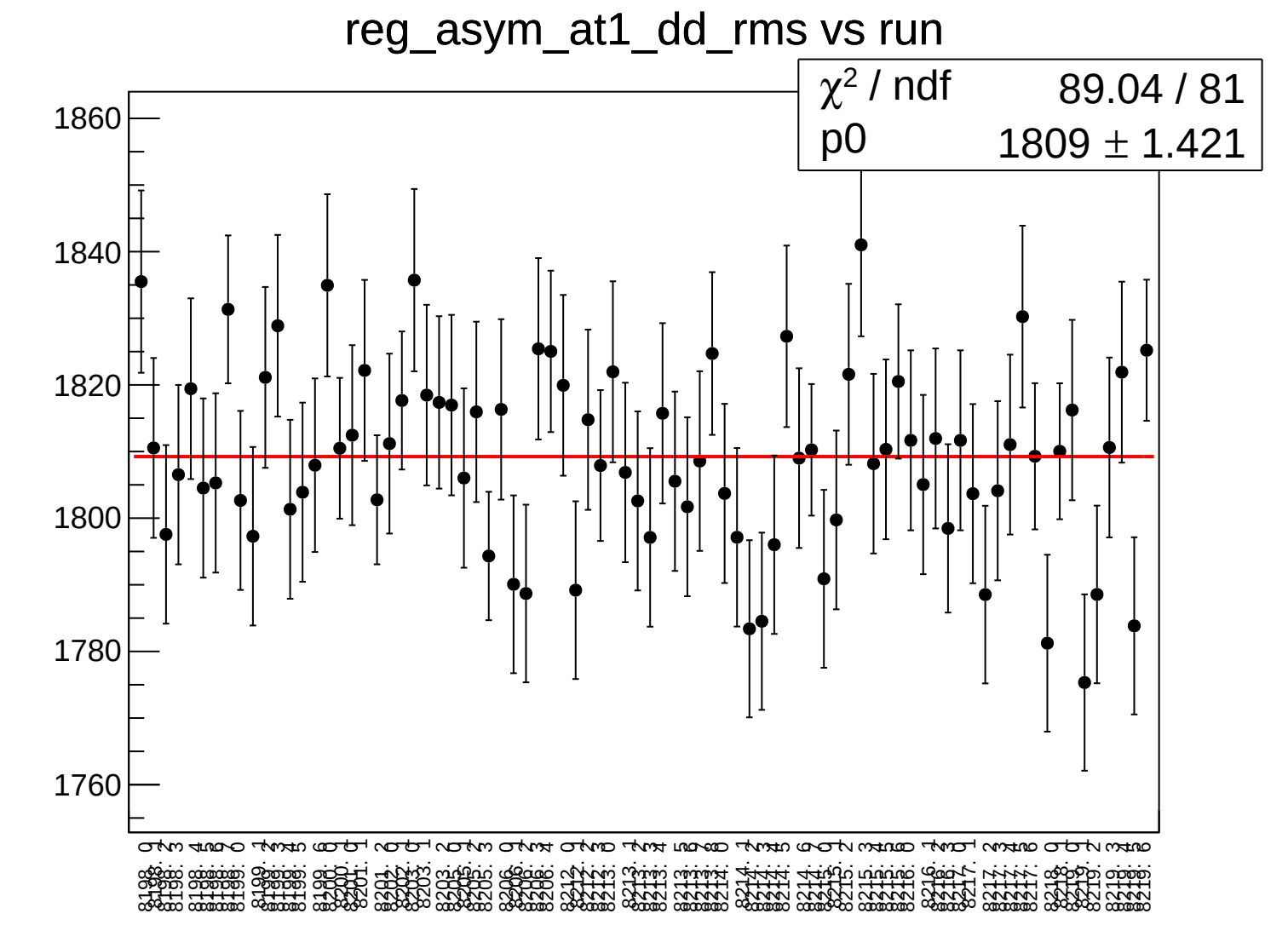

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.4 / 81
p0 −0.2158 ± 0.1794
pull
Entries 82
Mean 75.86
Std Dev 0
pull1D
Entries 82
Mean 0.04529
Std Dev 1.055

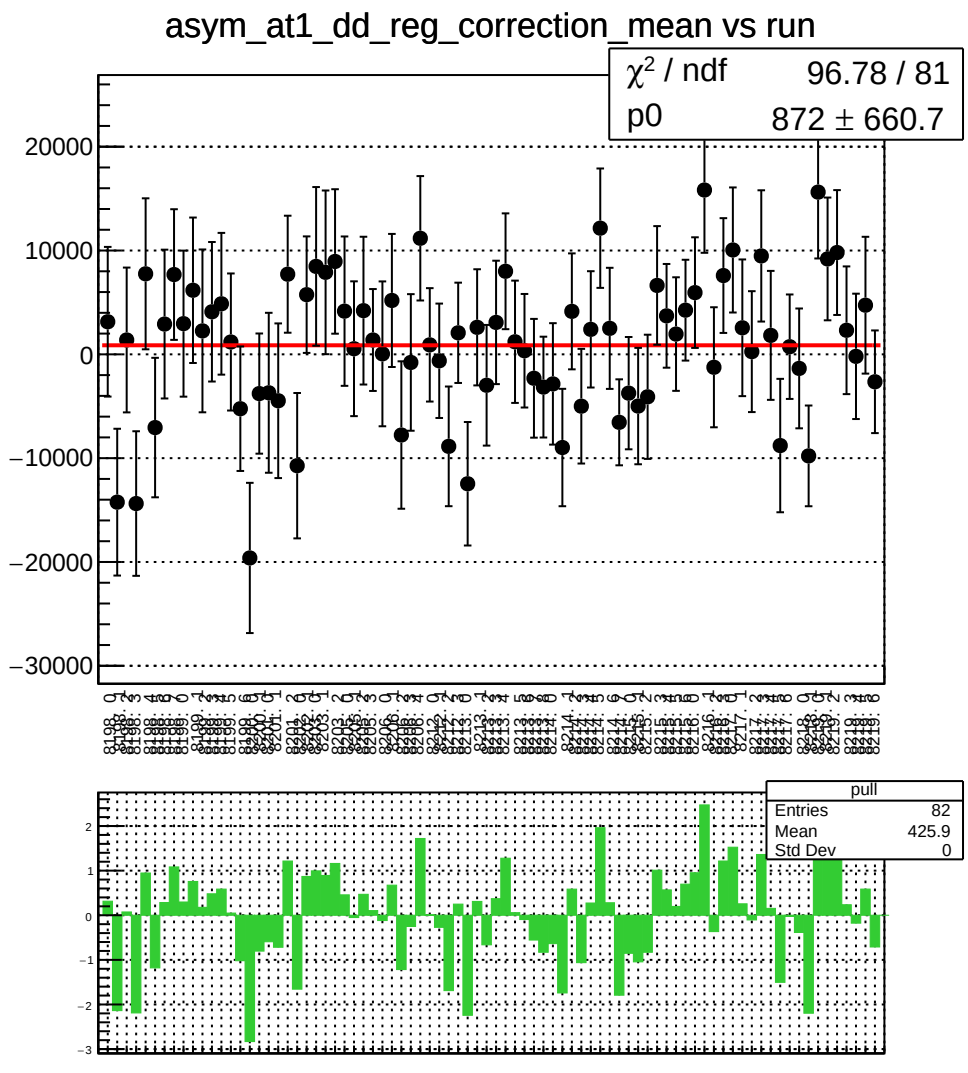

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.759e+05 / 81
p0 141.6 ± 0.1269
400
350
300
250
200
150
100
50

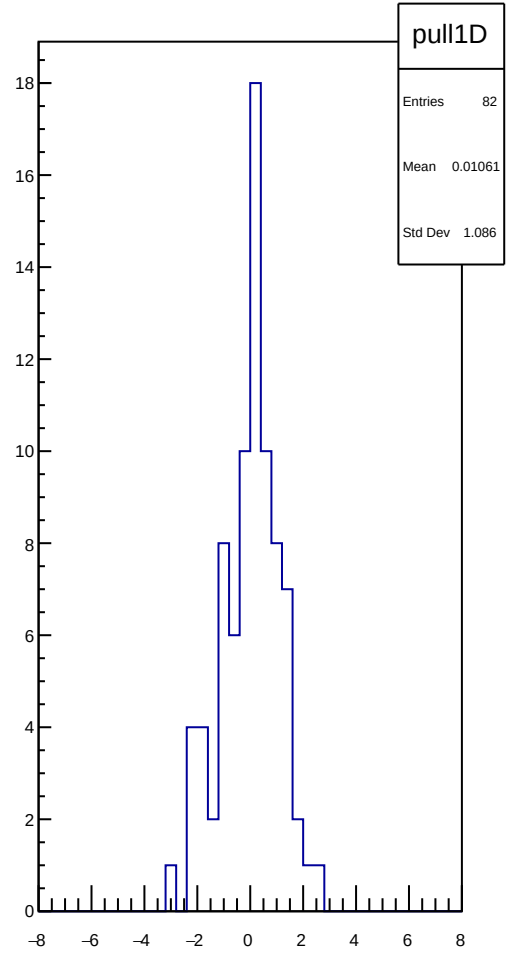

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.23 / 81
p0 5.531e−14 ± 4.993e−14
pull
Entries 82
Mean 95.07
Std Dev 0
pull1D
Entries 82
Mean 0.02553
Std Dev 0.9701

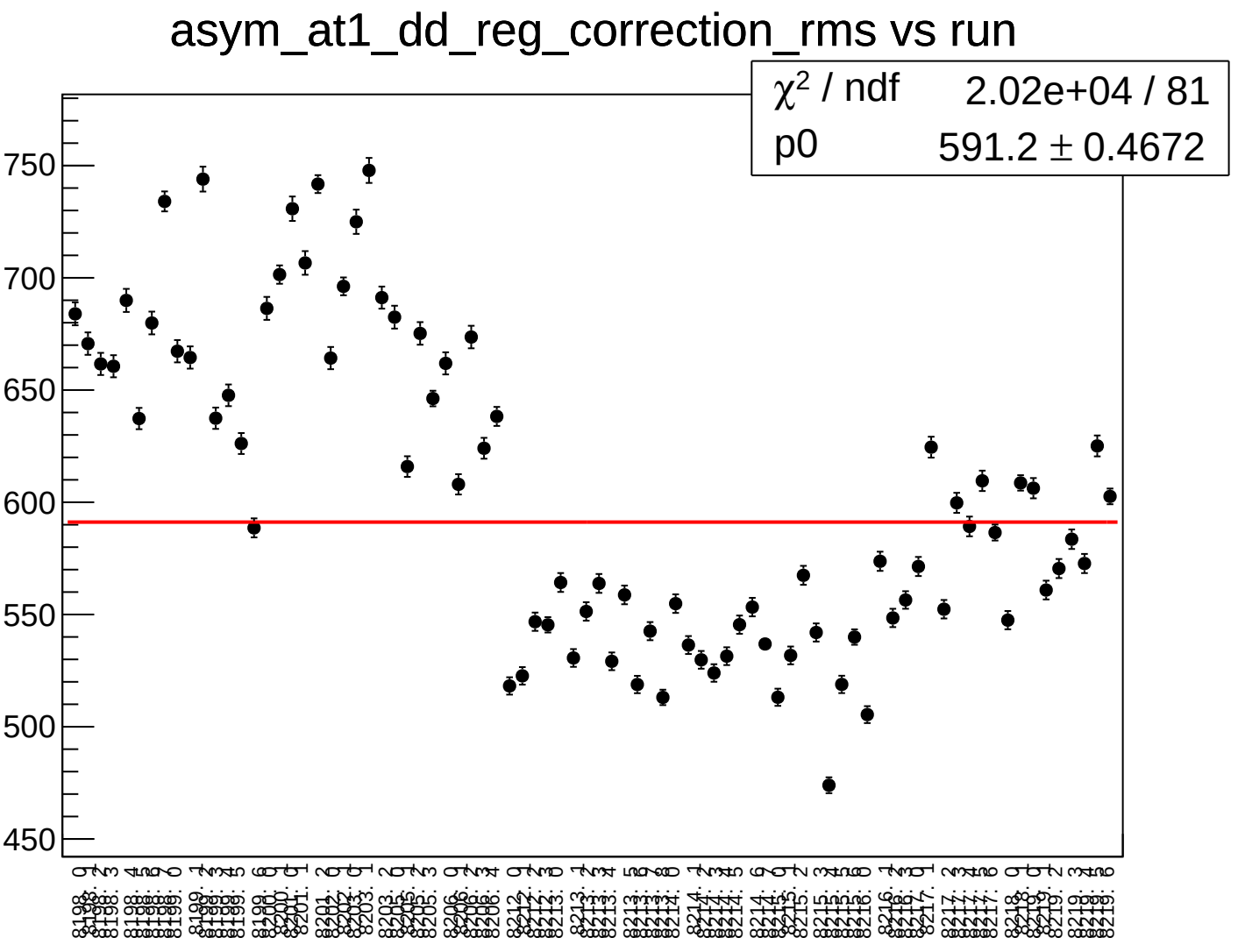

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.762e+05 / 81
p0 3.609e−11 ± 3.531e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

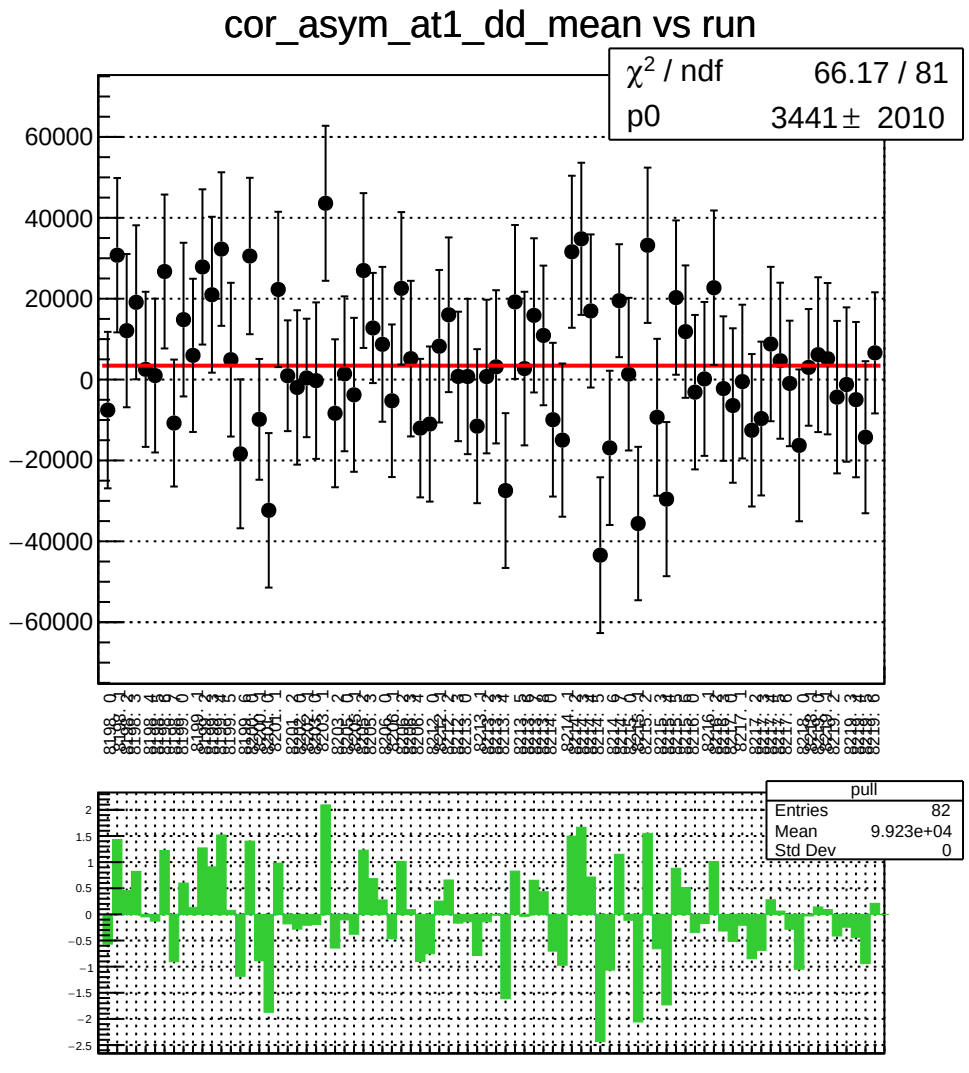

reg_asym_at1_dd_mean vs run
χ² / ndf 66.17 / 81
p0 3441 ± 2010
pull
Entries 82
Mean 9.905e+04
Std Dev 0
pull1D
Entries 82
Mean −4.703e−05
Std Dev 0.8983

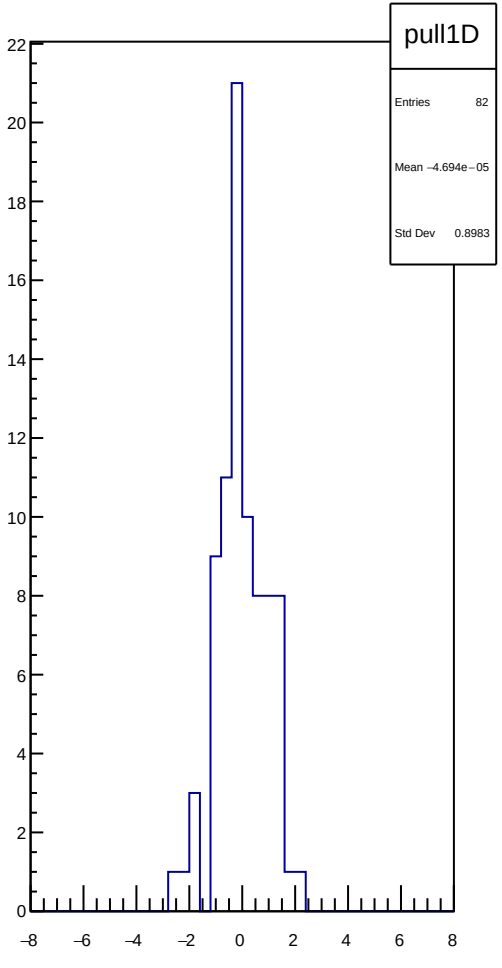

reg_asym_at1_dd_rms vs run
$\chi^2$ / ndf 89.04 / 81
p0 1809 ± 1.421
1860
1840
1820
1800
1780
1760

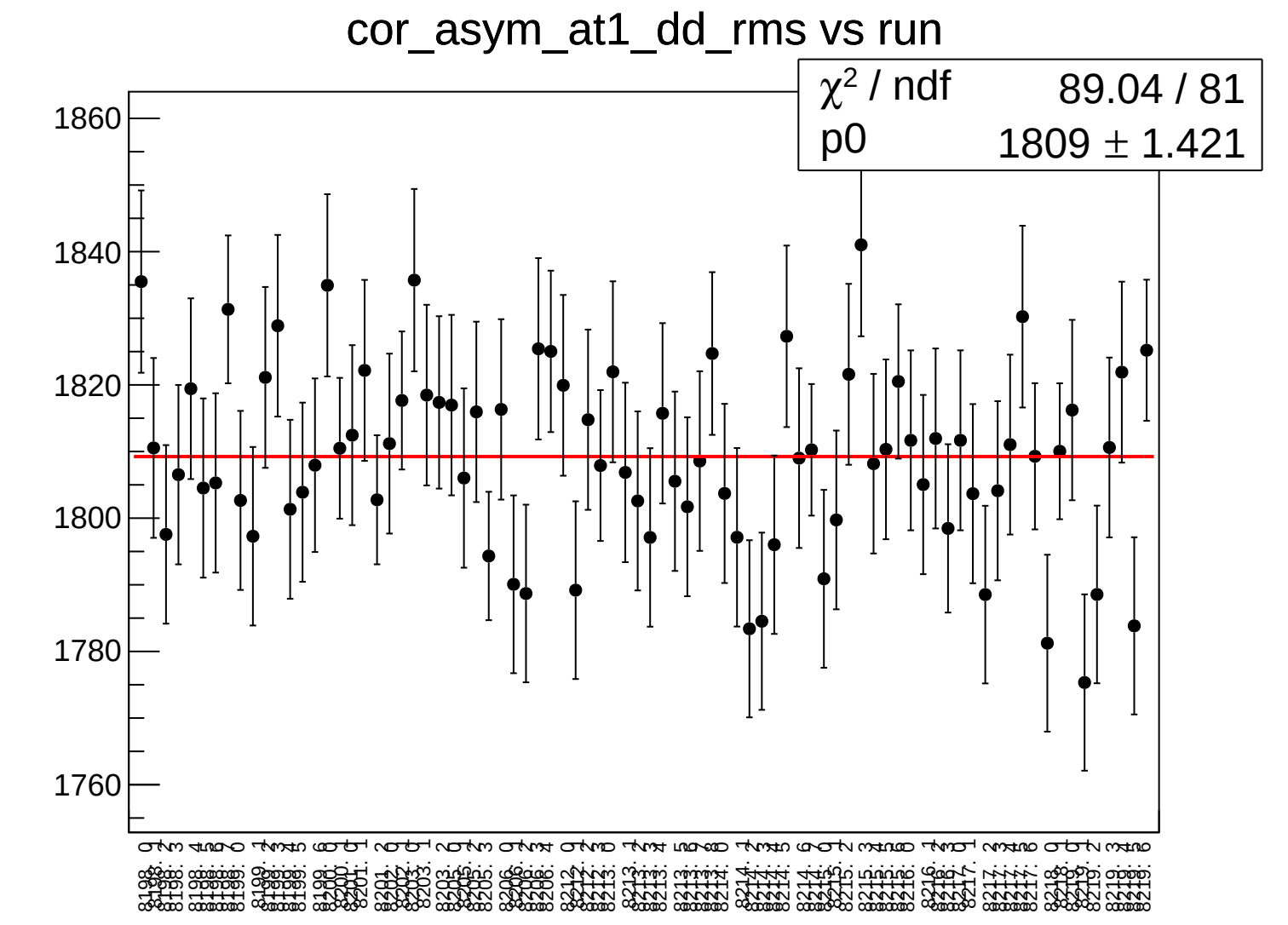

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 96.78 / 81
p0 872 ± 660.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 425.9
Std Dev 0
2
1
0
−1
−2
−3

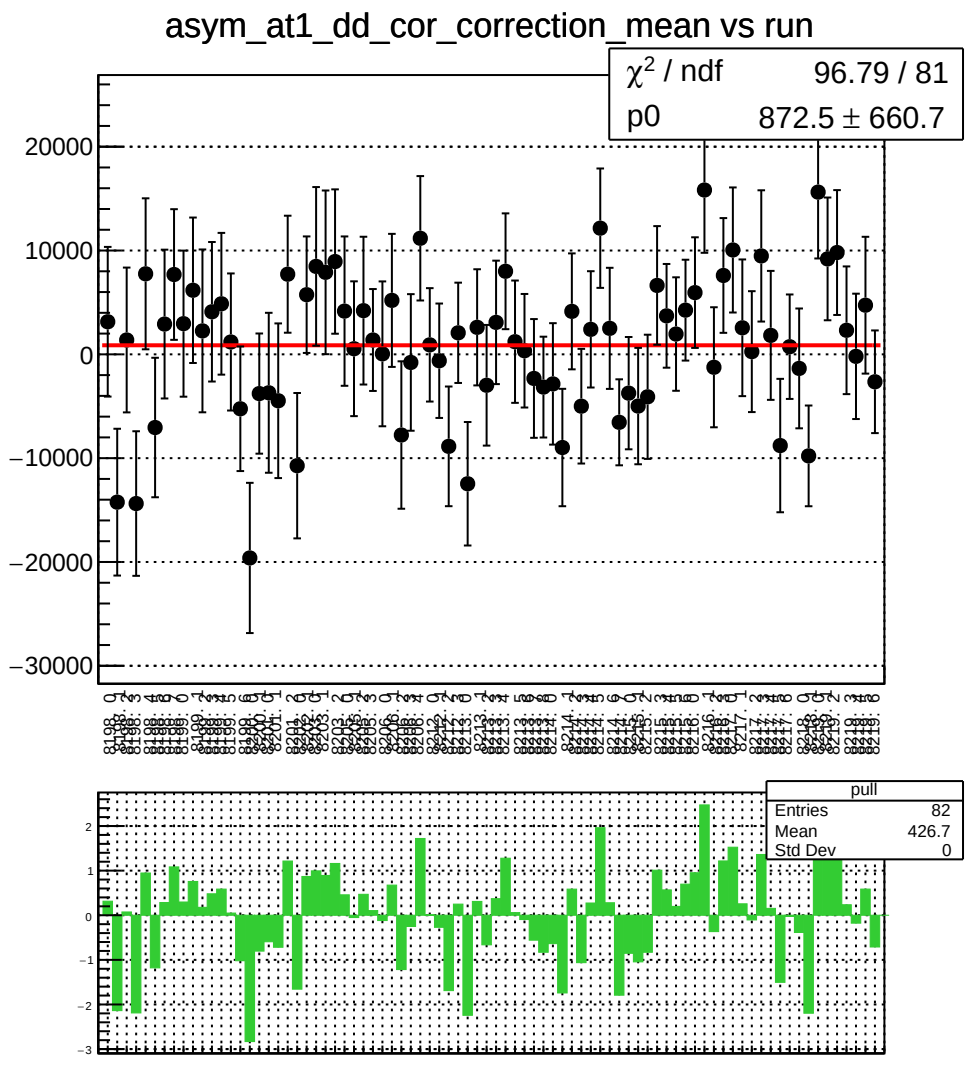

pull1D
Entries 82
Mean 0.01061
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

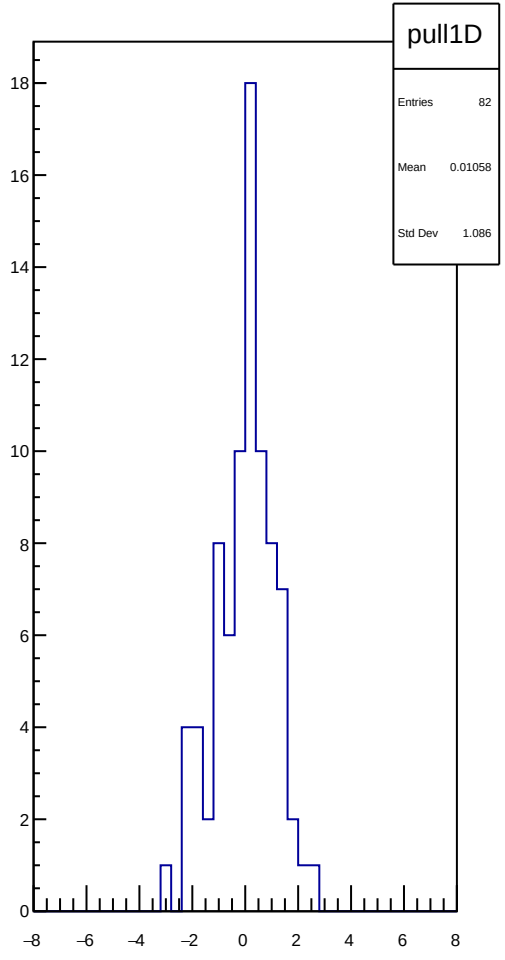

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 2.02e+04 / 81
p0 591.2 ± 0.4672
750
700
650
600
550
500
450

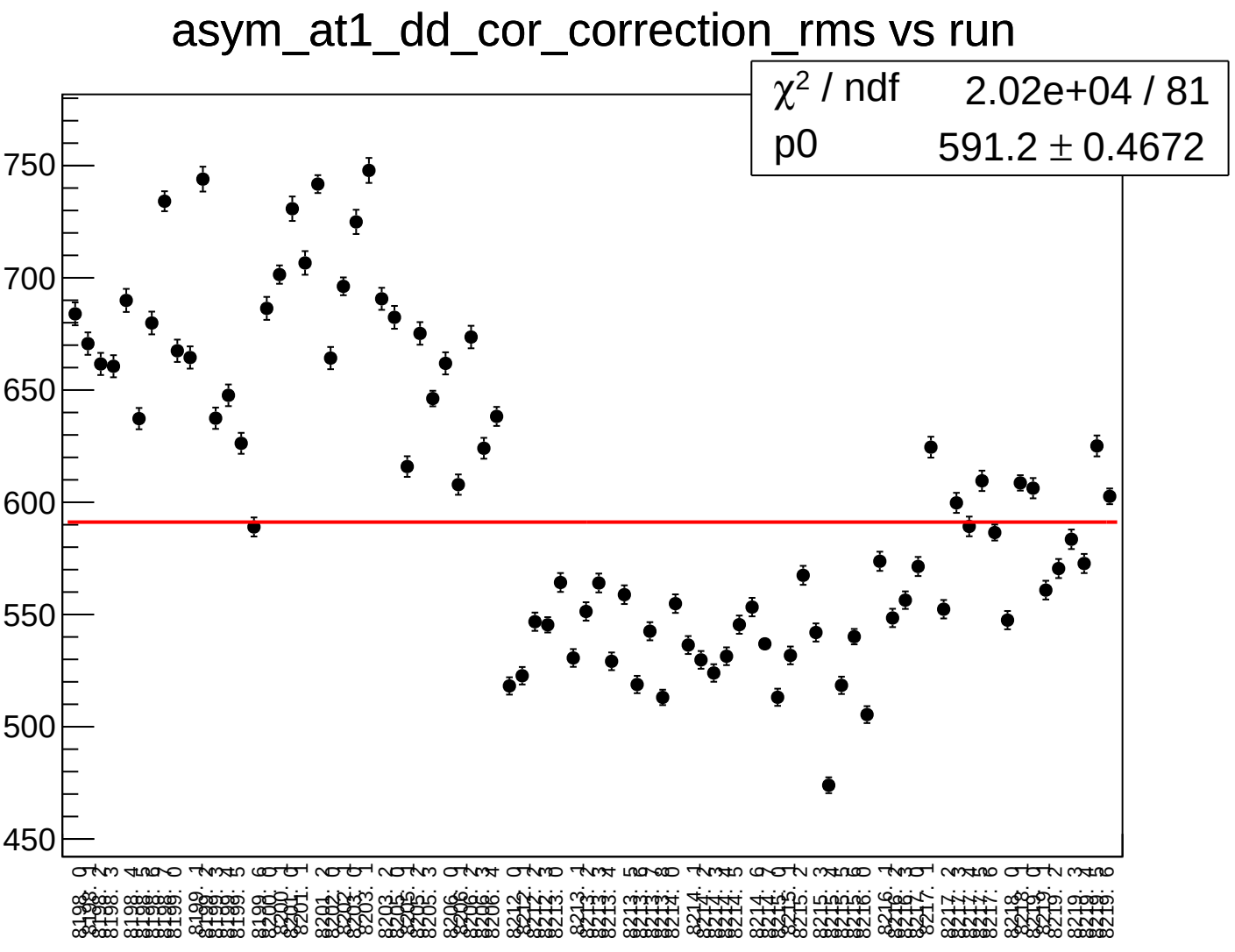

cor_asym_at1_dd_mean vs run
χ² / ndf 66.17 / 81
p0 3441 ± 2010
pull
Entries 82
Mean 9.923e+04
Std Dev 0

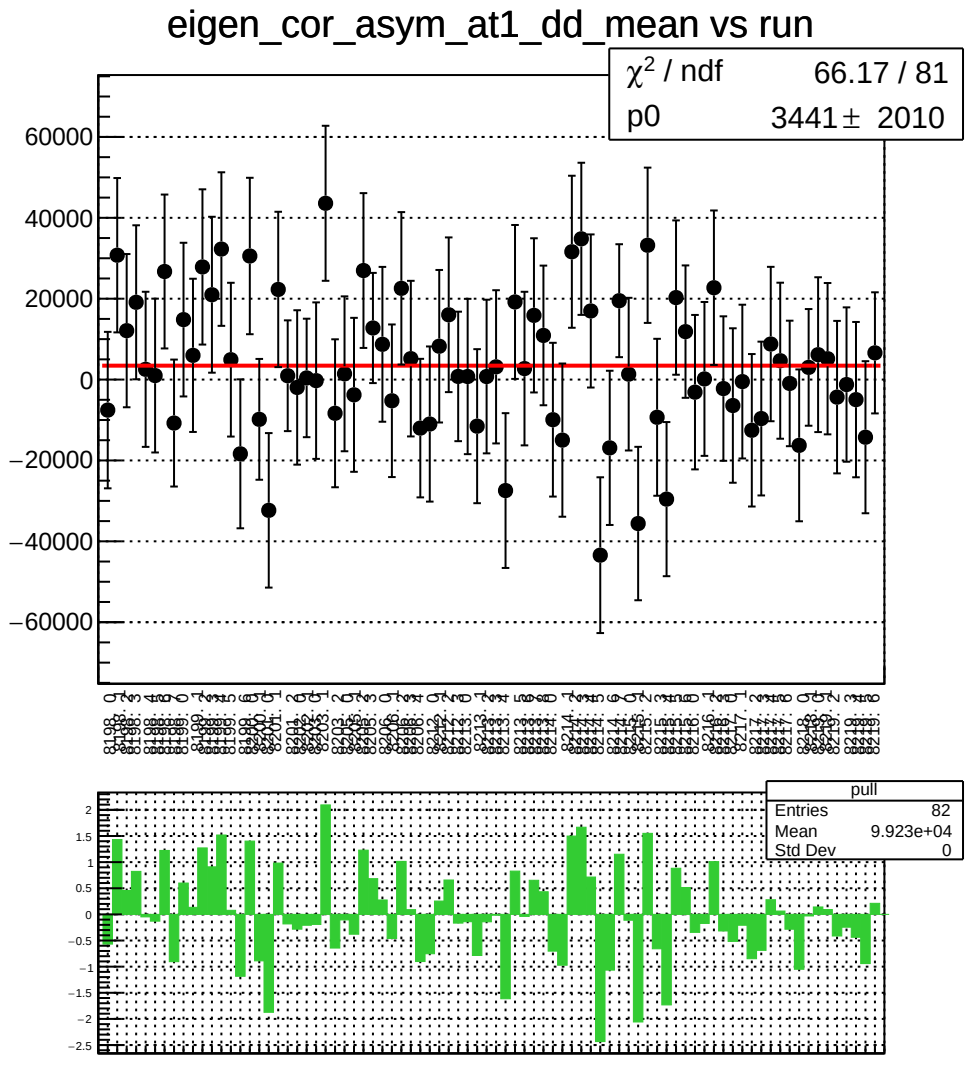

pull1D
Entries 82
Mean −4.694e−05
Std Dev 0.8983

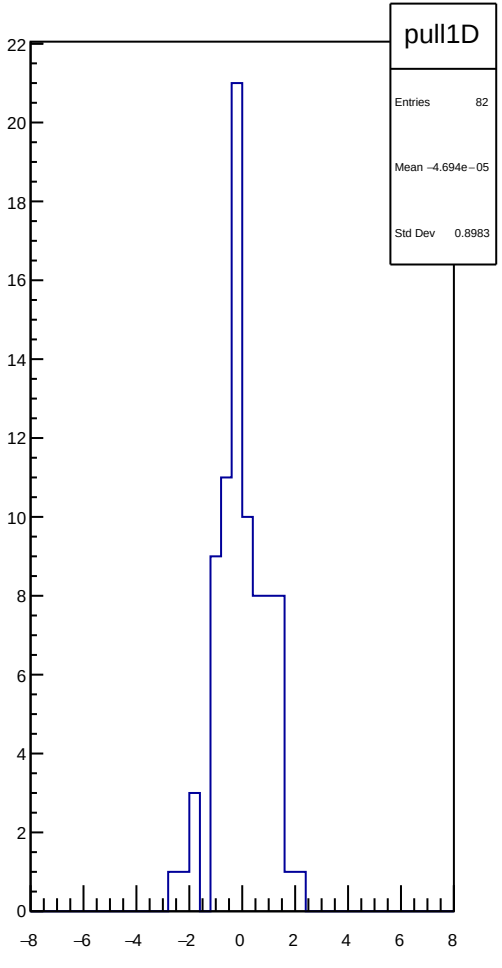

cor_asym_at1_dd_rms vs run
$\chi^2$ / ndf 89.04 / 81
p0 1809 ± 1.421
1860
1840
1820
1800
1780
1760

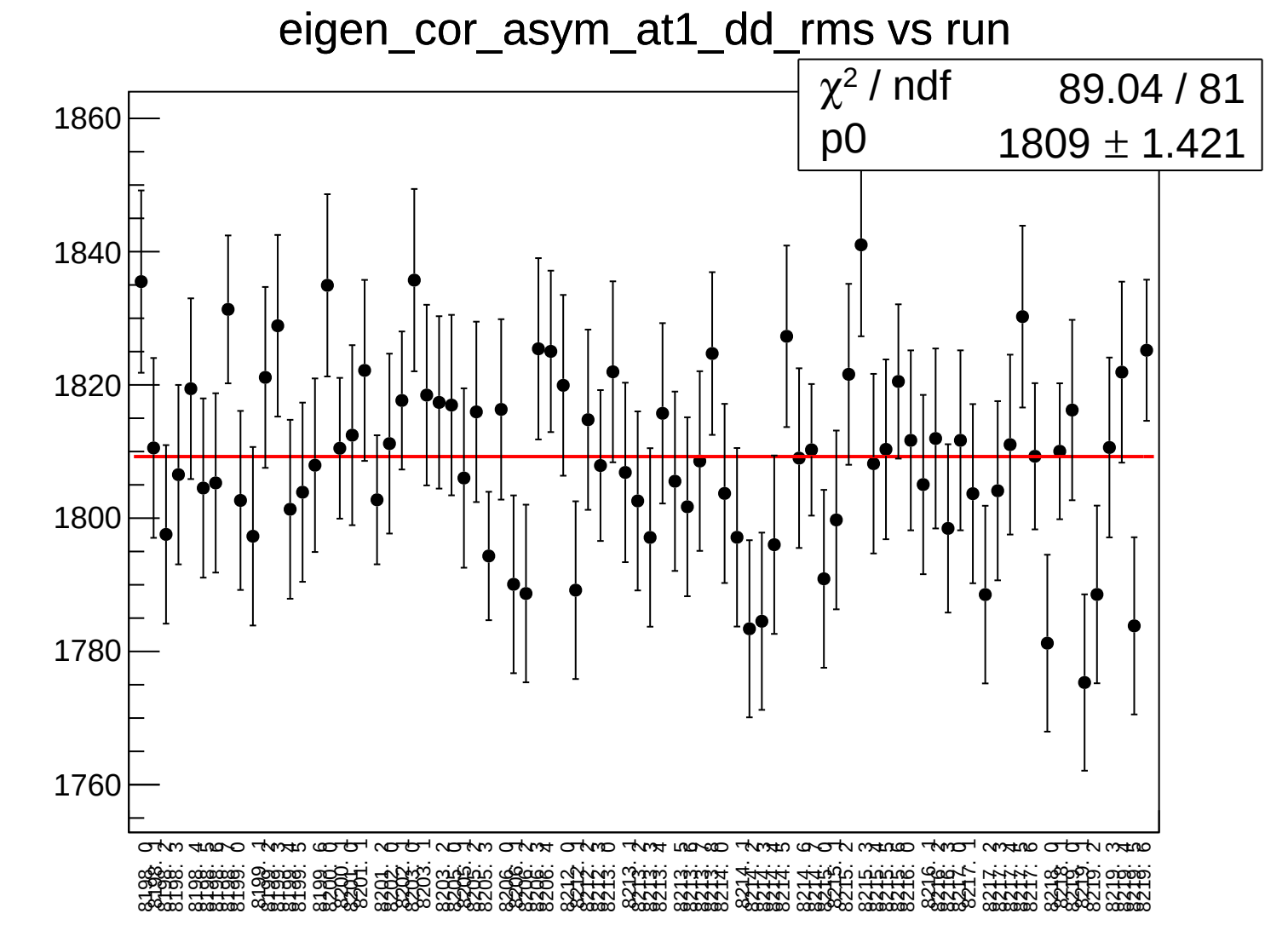

asym_at1_dd_cor_correction_mean vs run
$\chi^2$ / ndf 96.79 / 81
p0 872.5 ± 660.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 426.7
Std Dev 0
2
1
0
−1
−2
−3

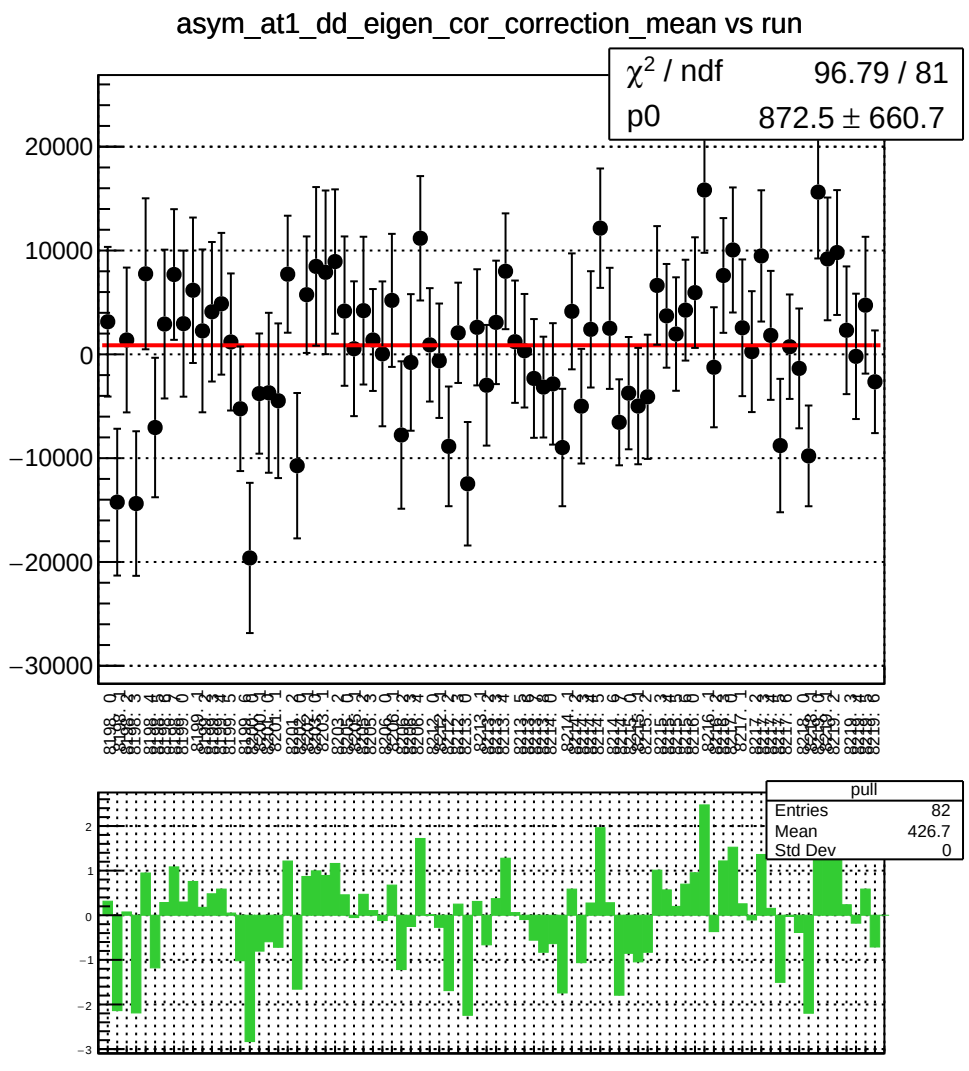

pull1D
Entries 82
Mean 0.01058
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

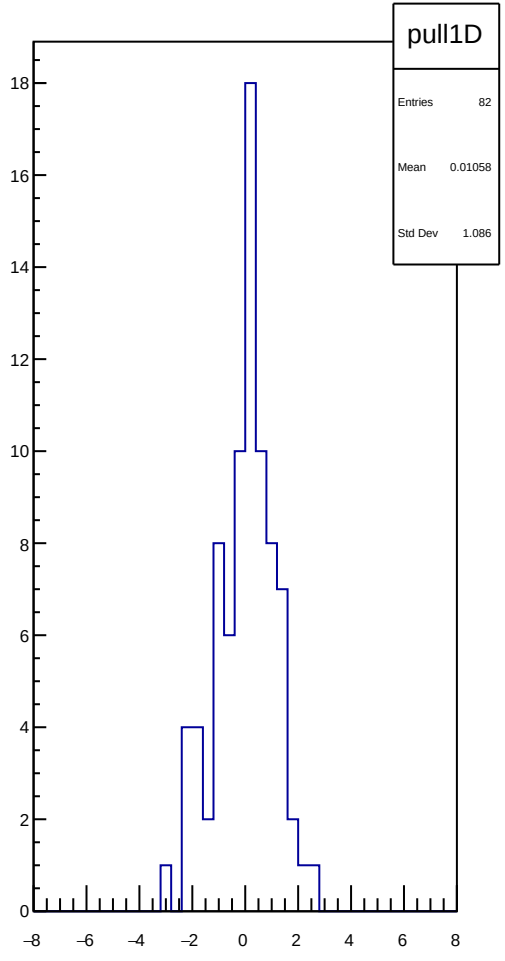

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 2.02e+04 / 81
p0 591.2 ± 0.4672
750
700
650
600
550
500
450


eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 66.17 / 81
p0 3441 ± 2010
pull
Entries 82
Mean 9.923e+04
Std Dev 0


pull1D
Entries 82
Mean −4.694e−05
Std Dev 0.8983


eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 89.04 / 81
p0 1809 ± 1.421
1860
1840
1820
1800
1780
1760


asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.79 / 81
p0 872.5 ± 660.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 426.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.01058
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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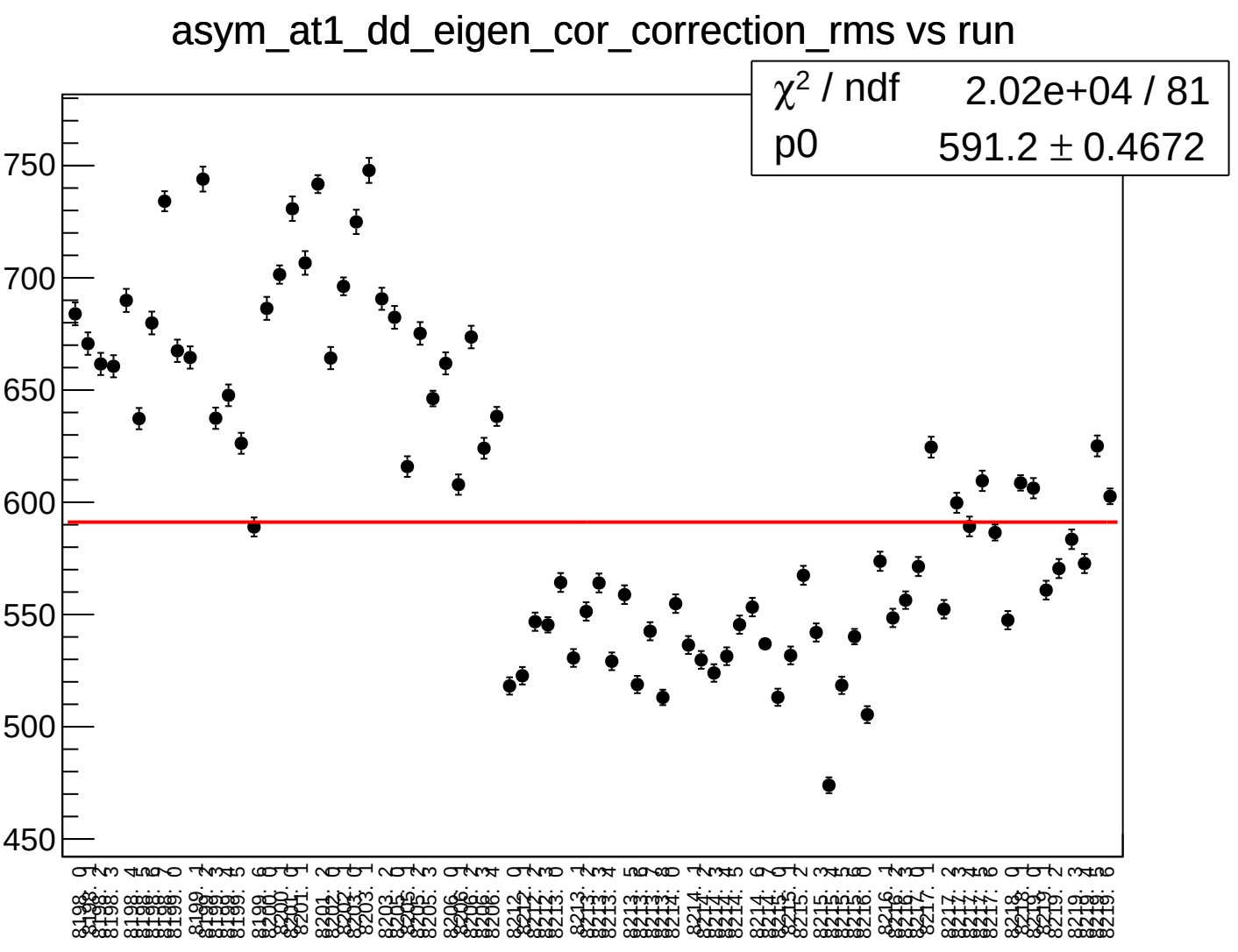
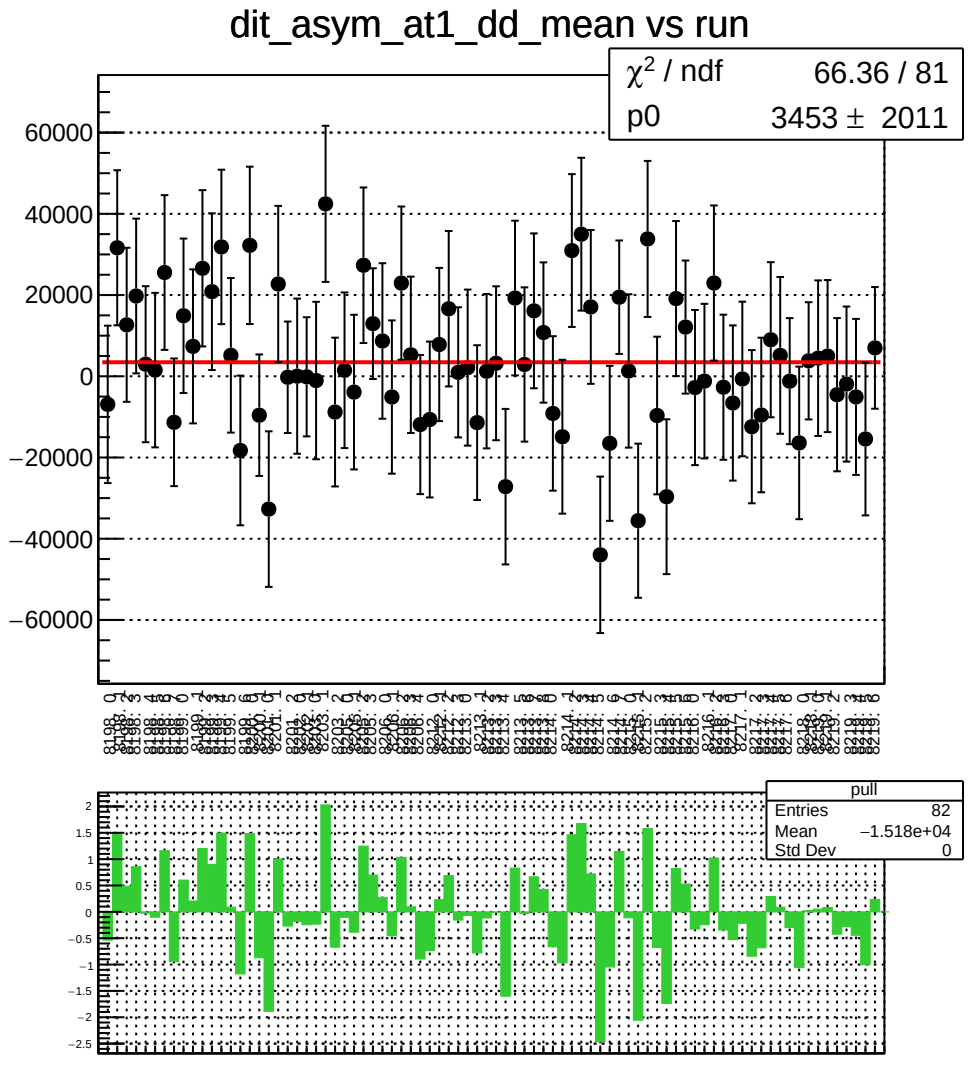
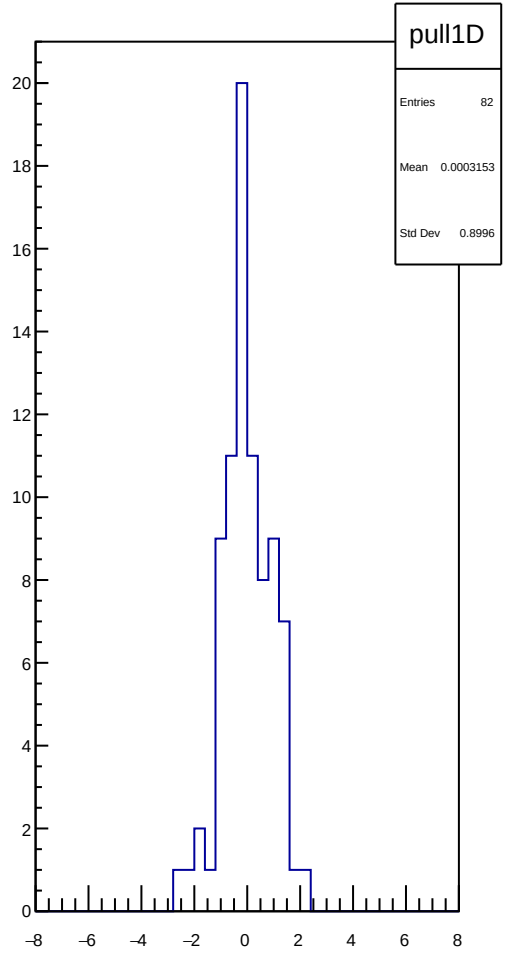
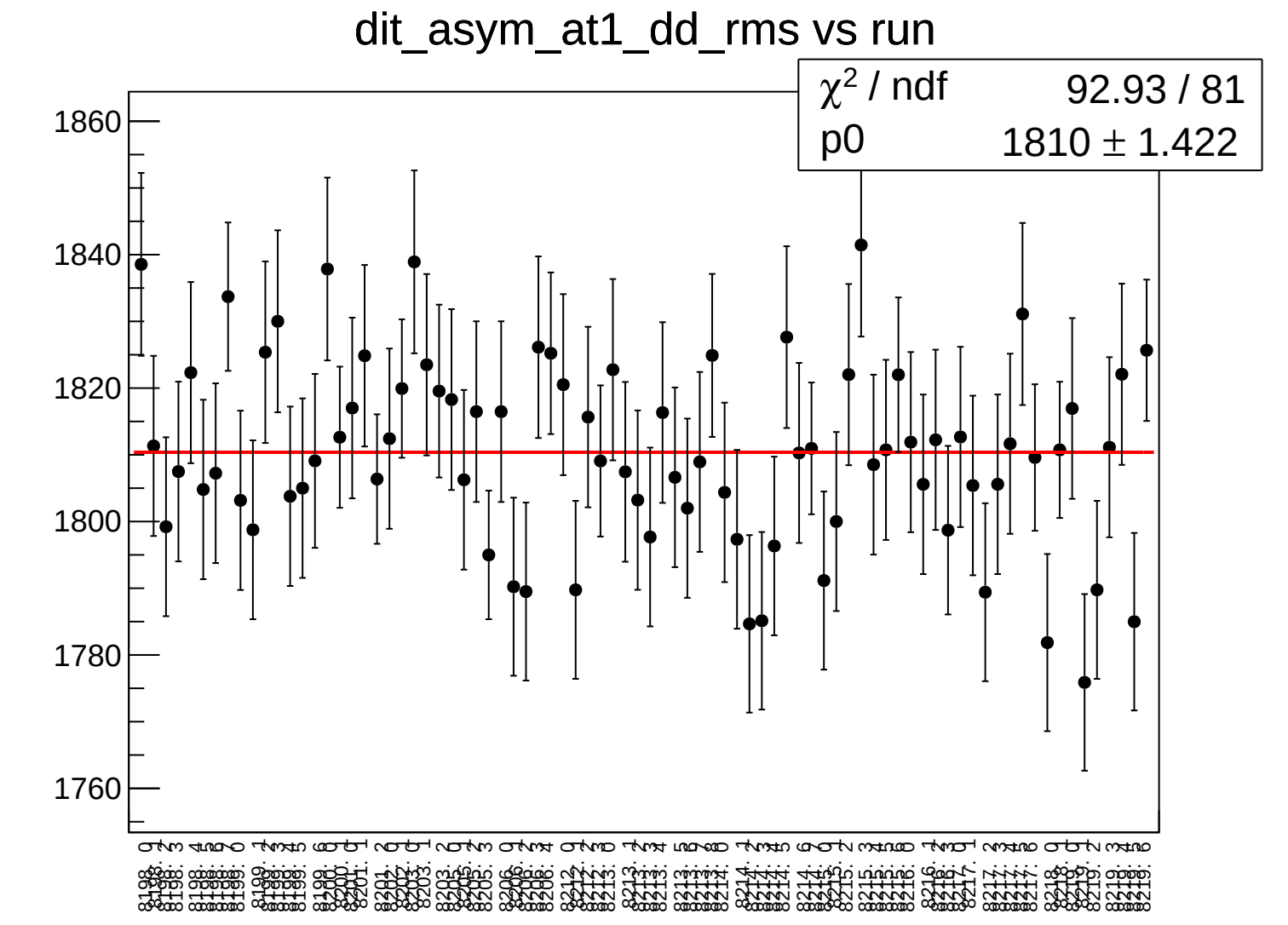
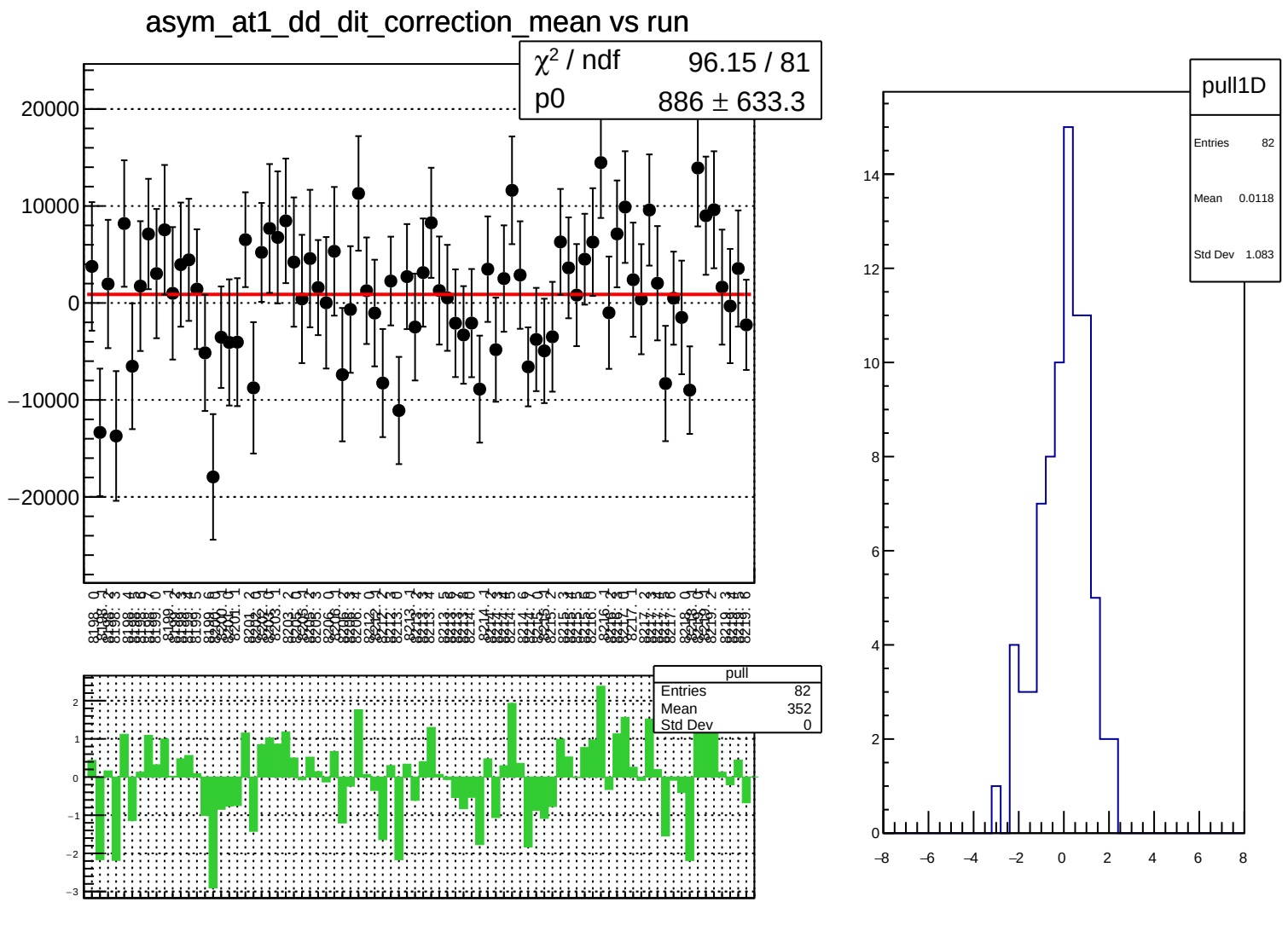
0
2
4
6
8

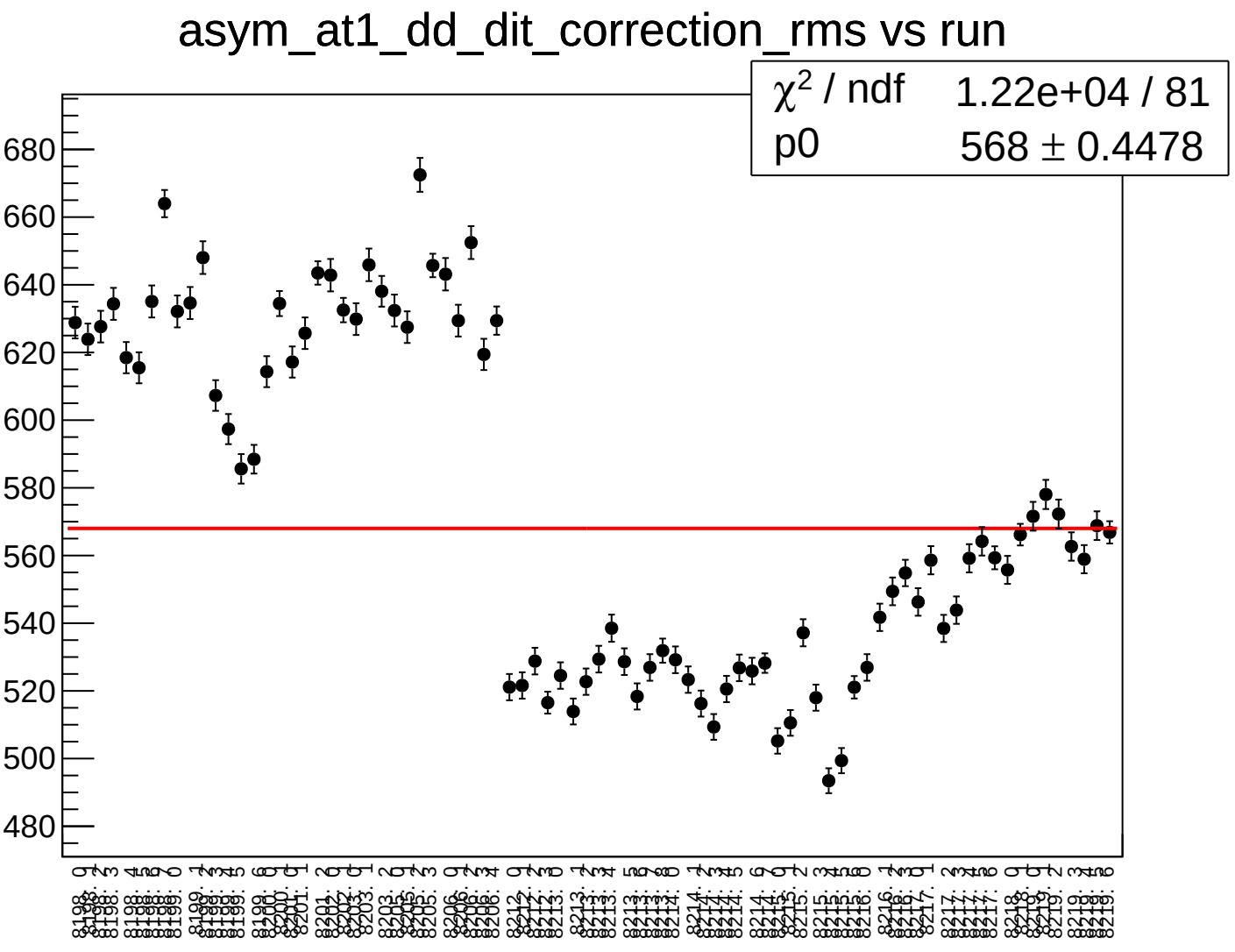

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.02e+04 / 81
p0 591.2 ± 0.4672
750
700
650
600
550
500
450

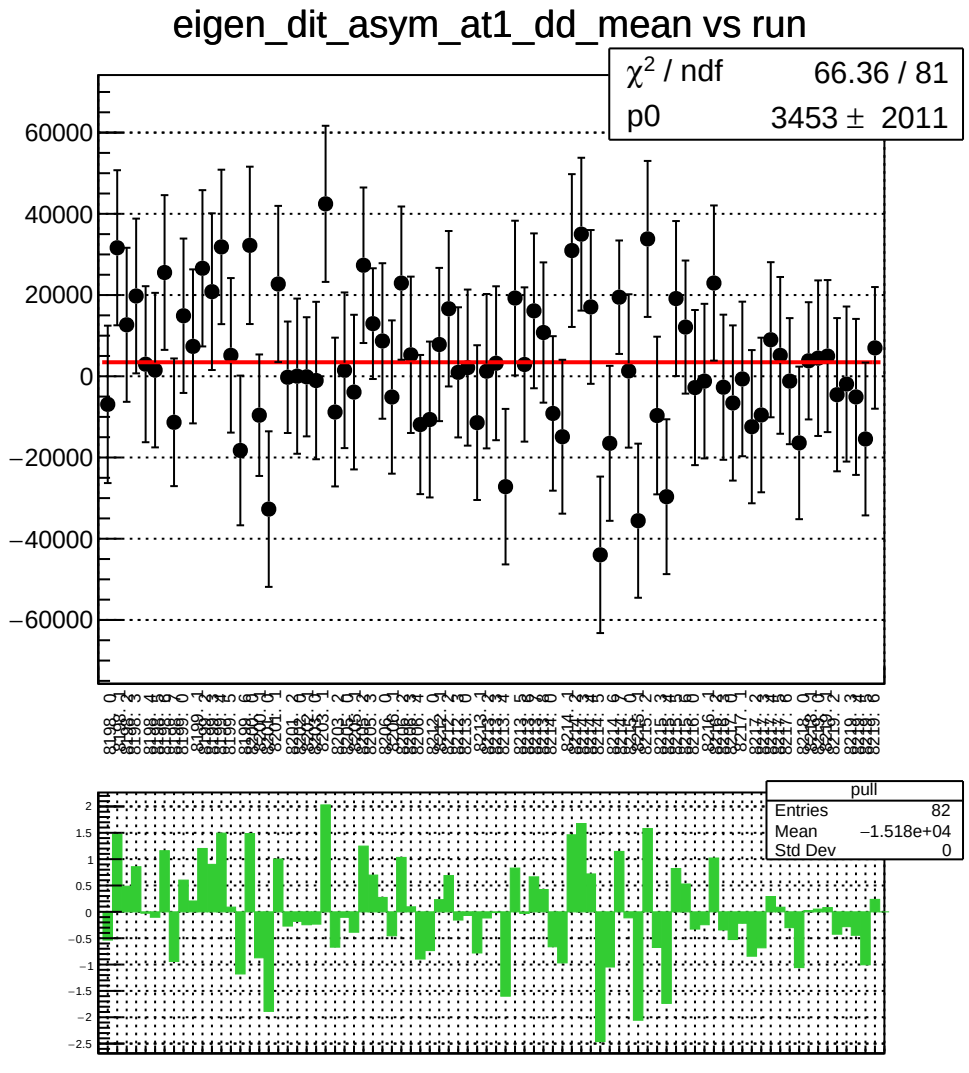

dit_asym_at1_dd_mean vs run
χ² / ndf 66.36 / 81
p0 3453 ± 2011
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −1.518e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

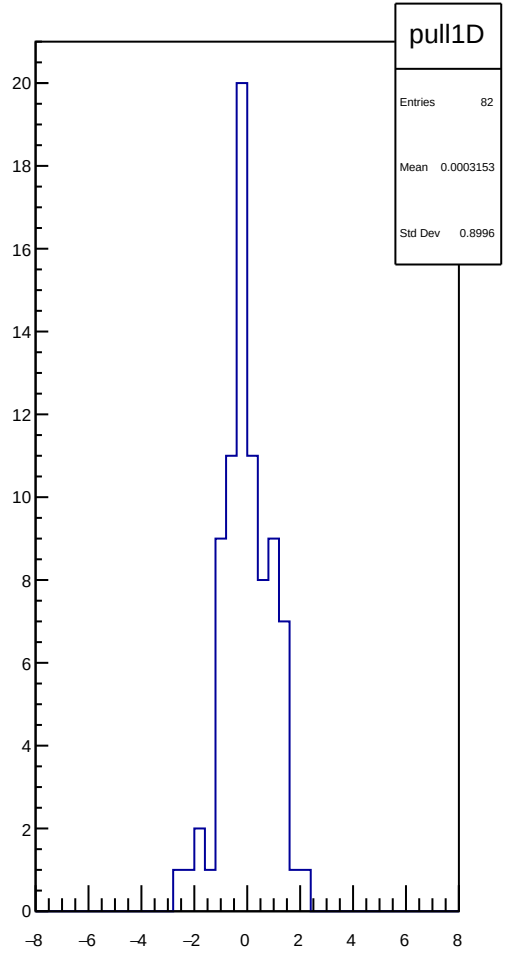

pull1D
Entries 82
Mean 0.0003153
Std Dev 0.8996
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

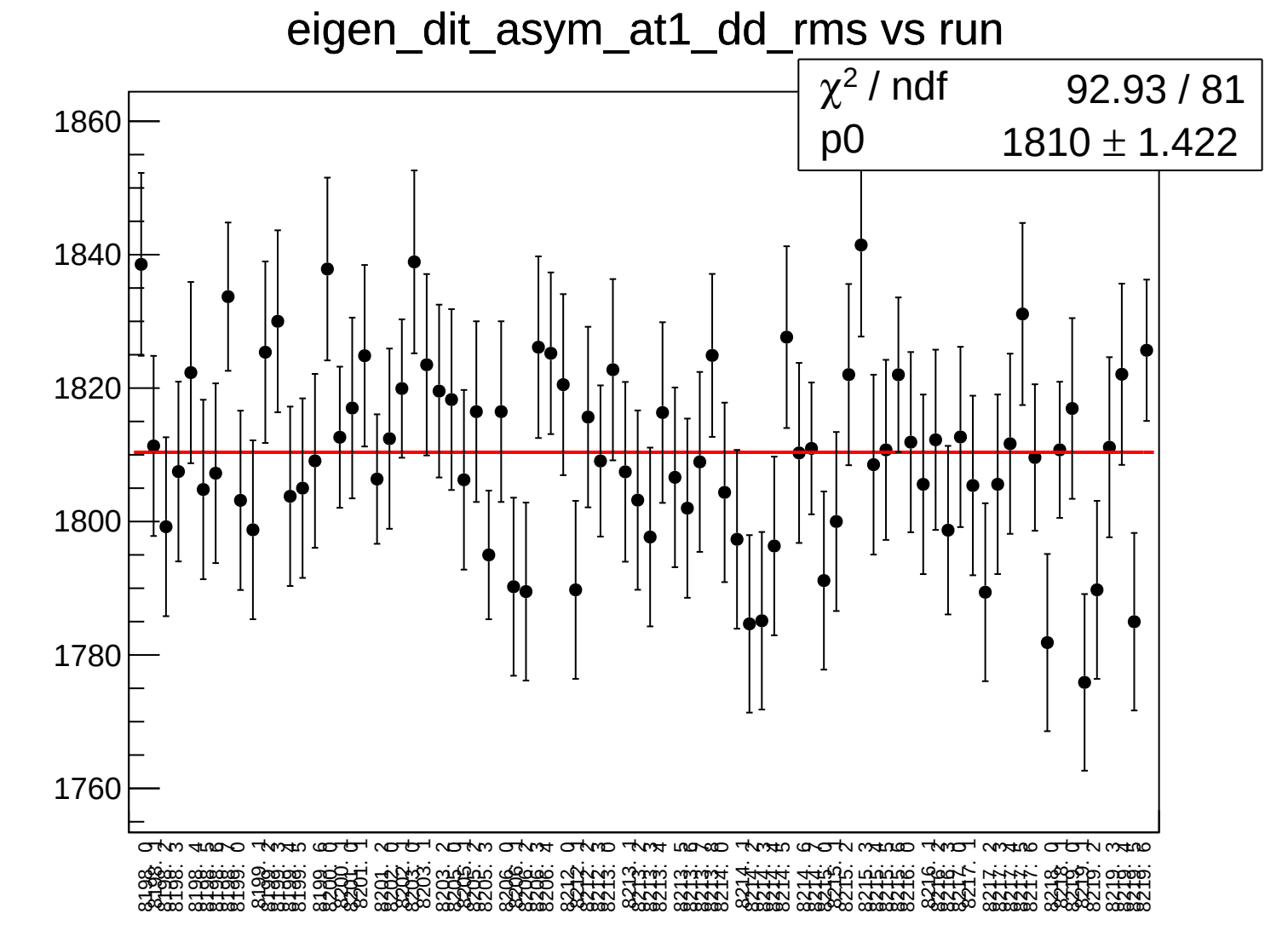

dit_asym_at1_dd_rms vs run
χ² / ndf 92.93 / 81
p0 1810 ± 1.422
1860
1840
1820
1800
1780
1760

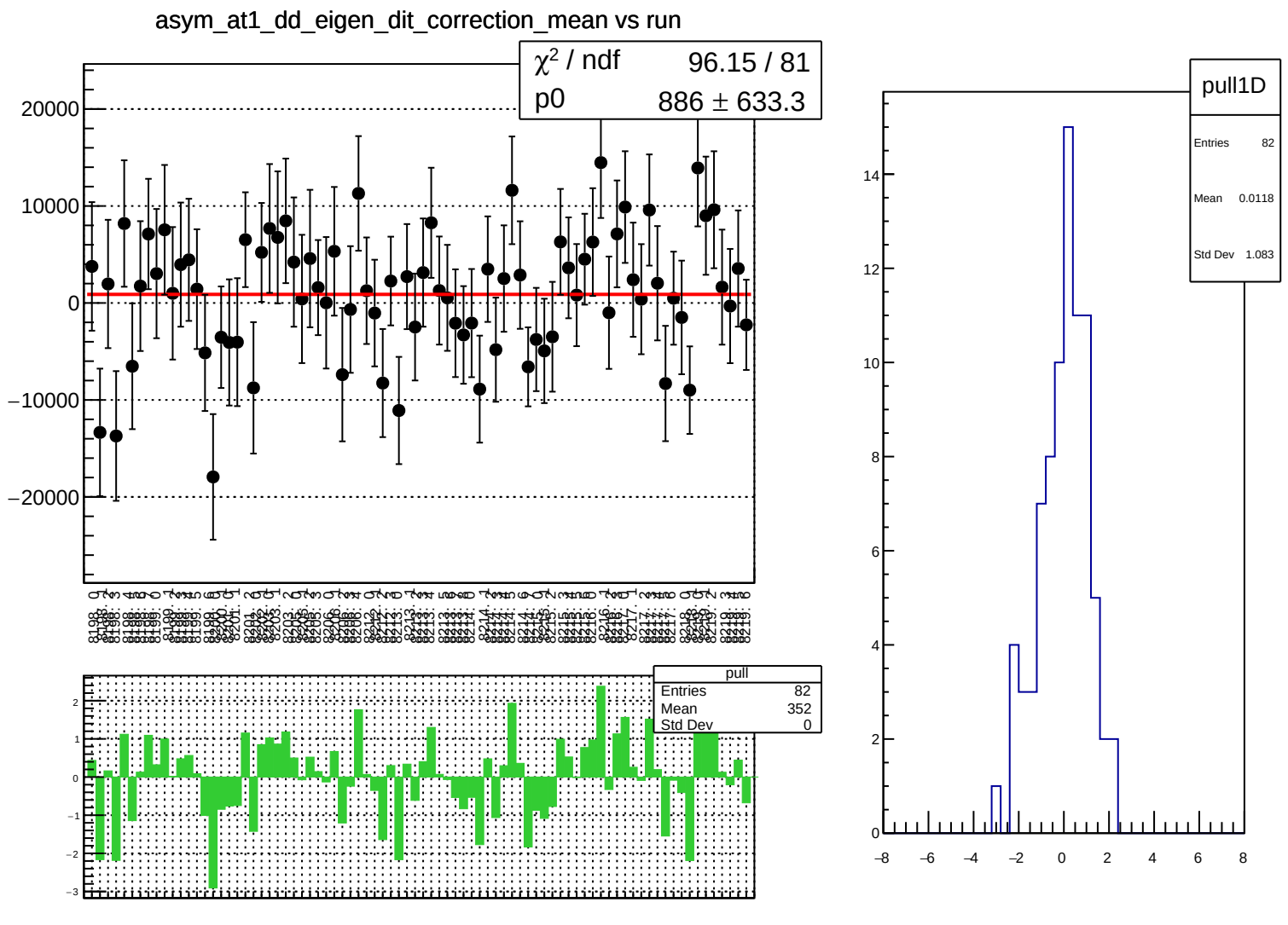

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 96.15 / 81
p0 886 ± 633.3
20000
10000
0
−10000
−20000
pull
Entries 82
Mean 352
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.0118
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

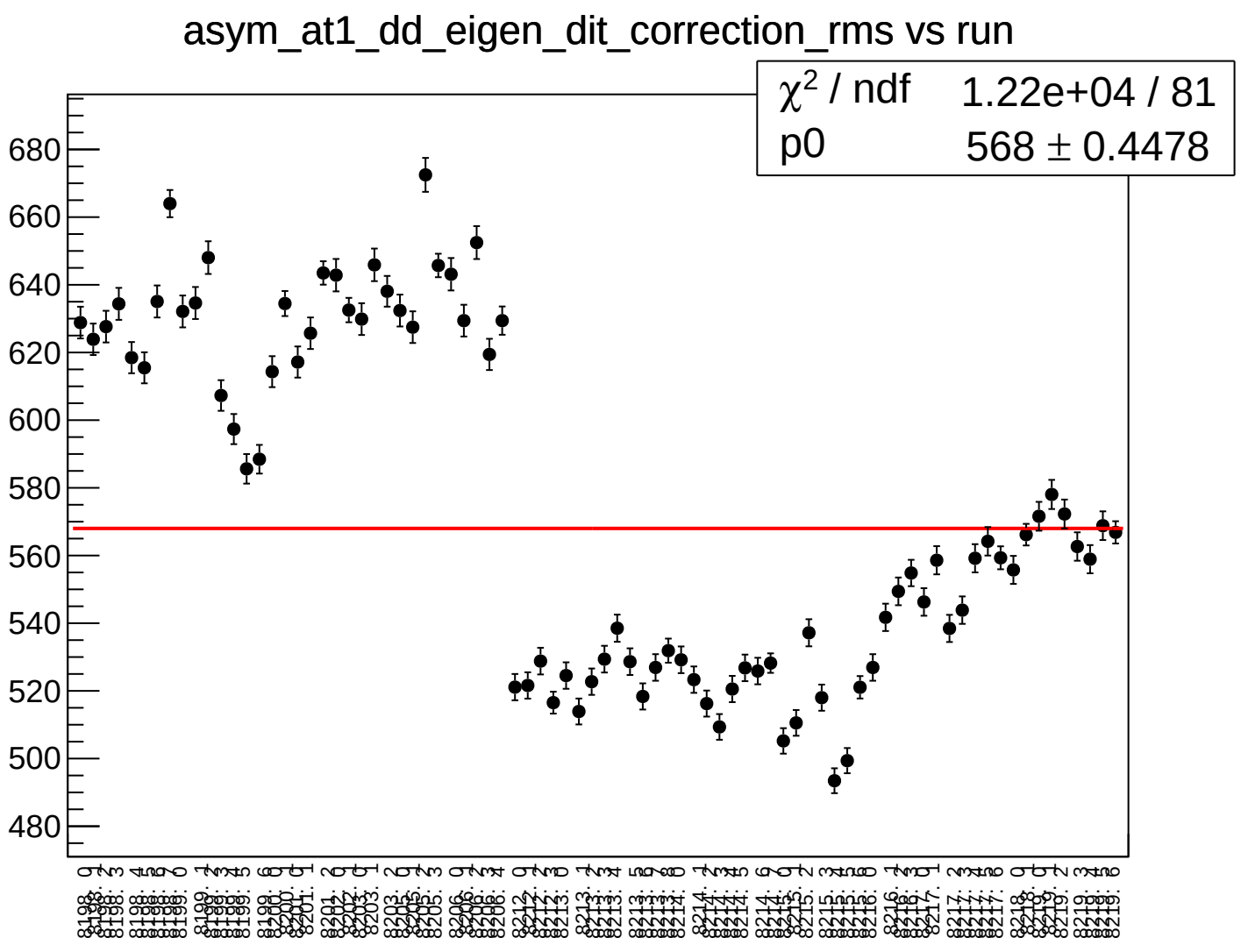

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.22e+04 / 81
p0 568 ± 0.4478
680
660
640
620
600
580
560
540
520
500
480

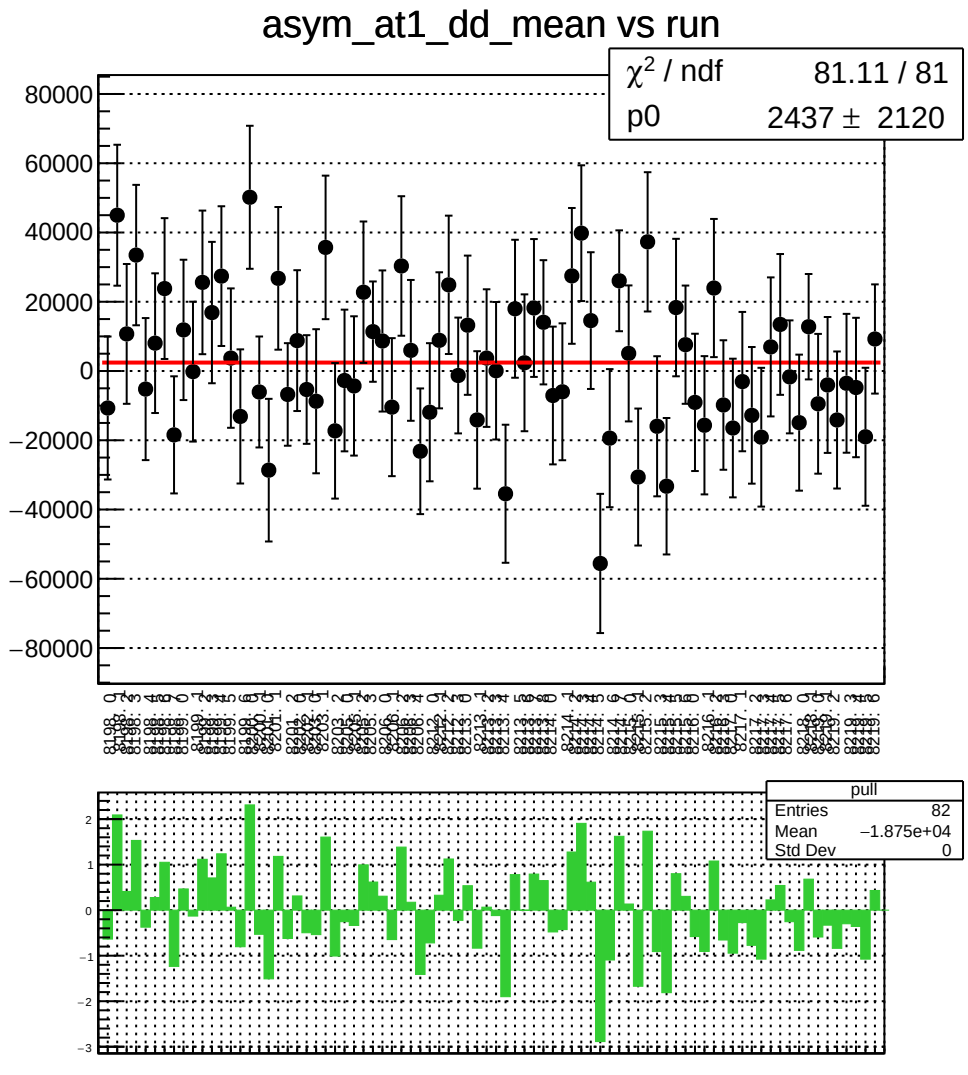

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 66.36 / 81
p0 3453 ± 2011
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −1.518e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

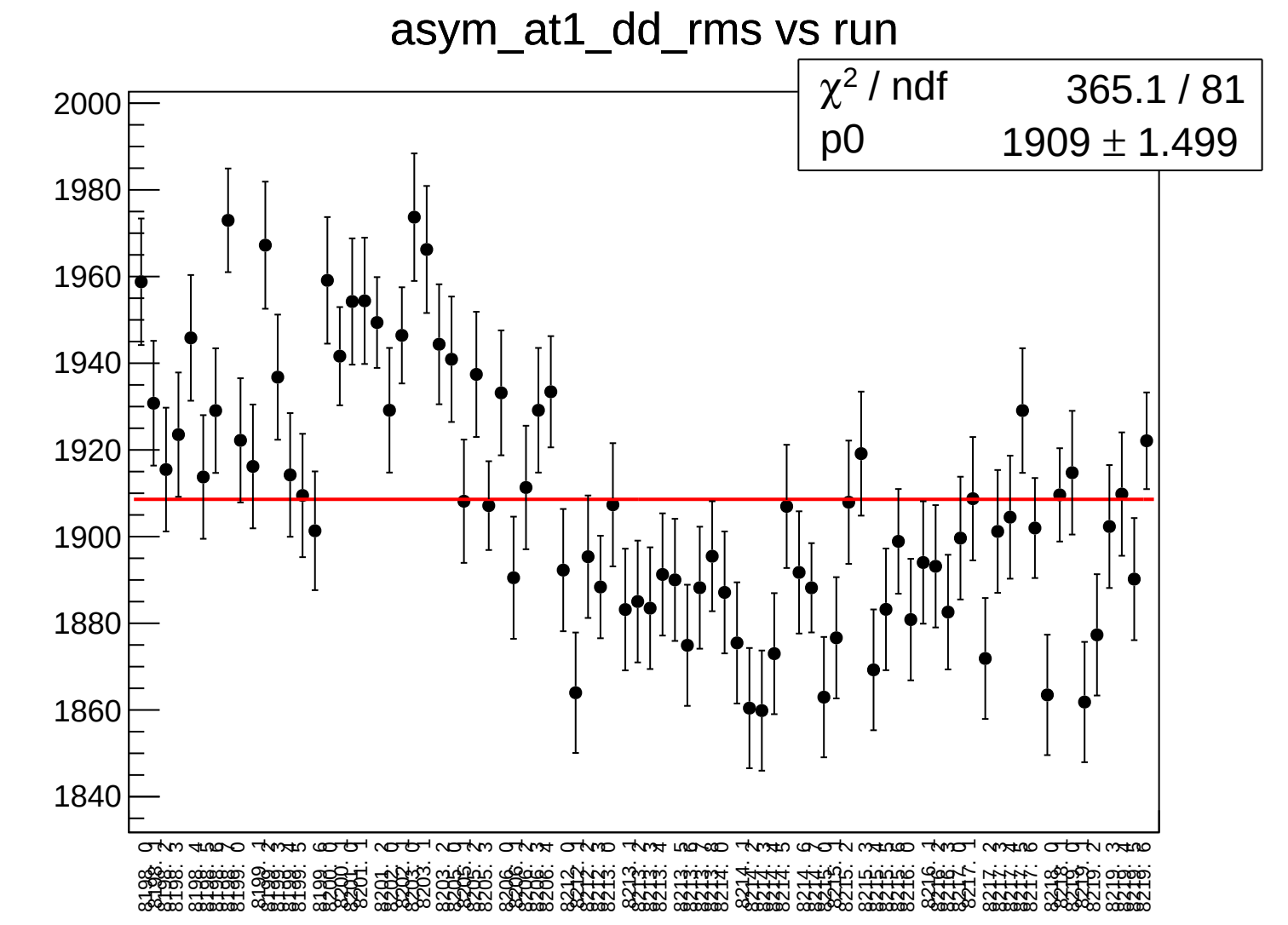

pull1D
Entries 82
Mean 0.0003153
Std Dev 0.8996
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

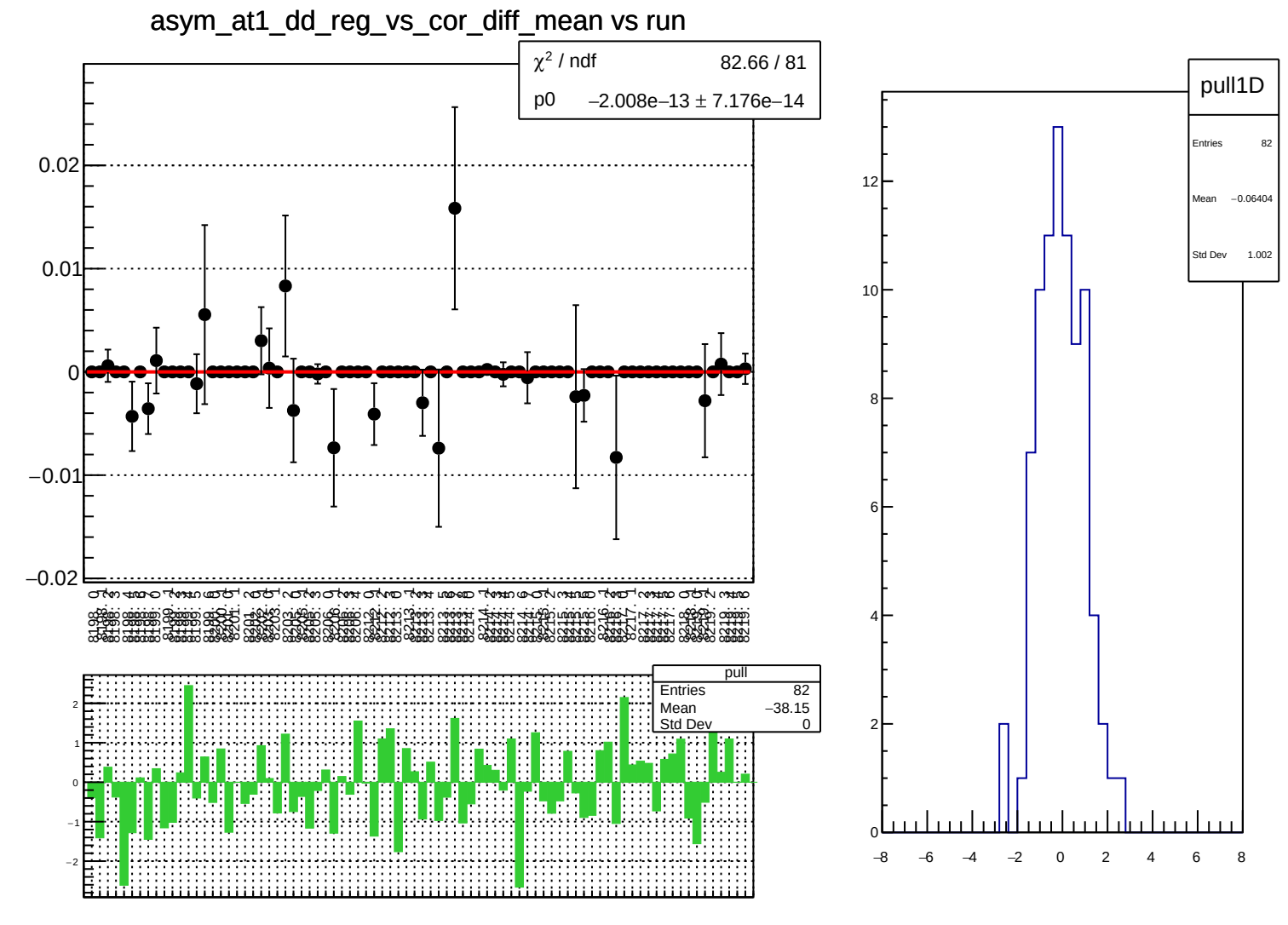

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 92.93 / 81
p0 1810 ± 1.422
1860
1840
1820
1800
1780
1760

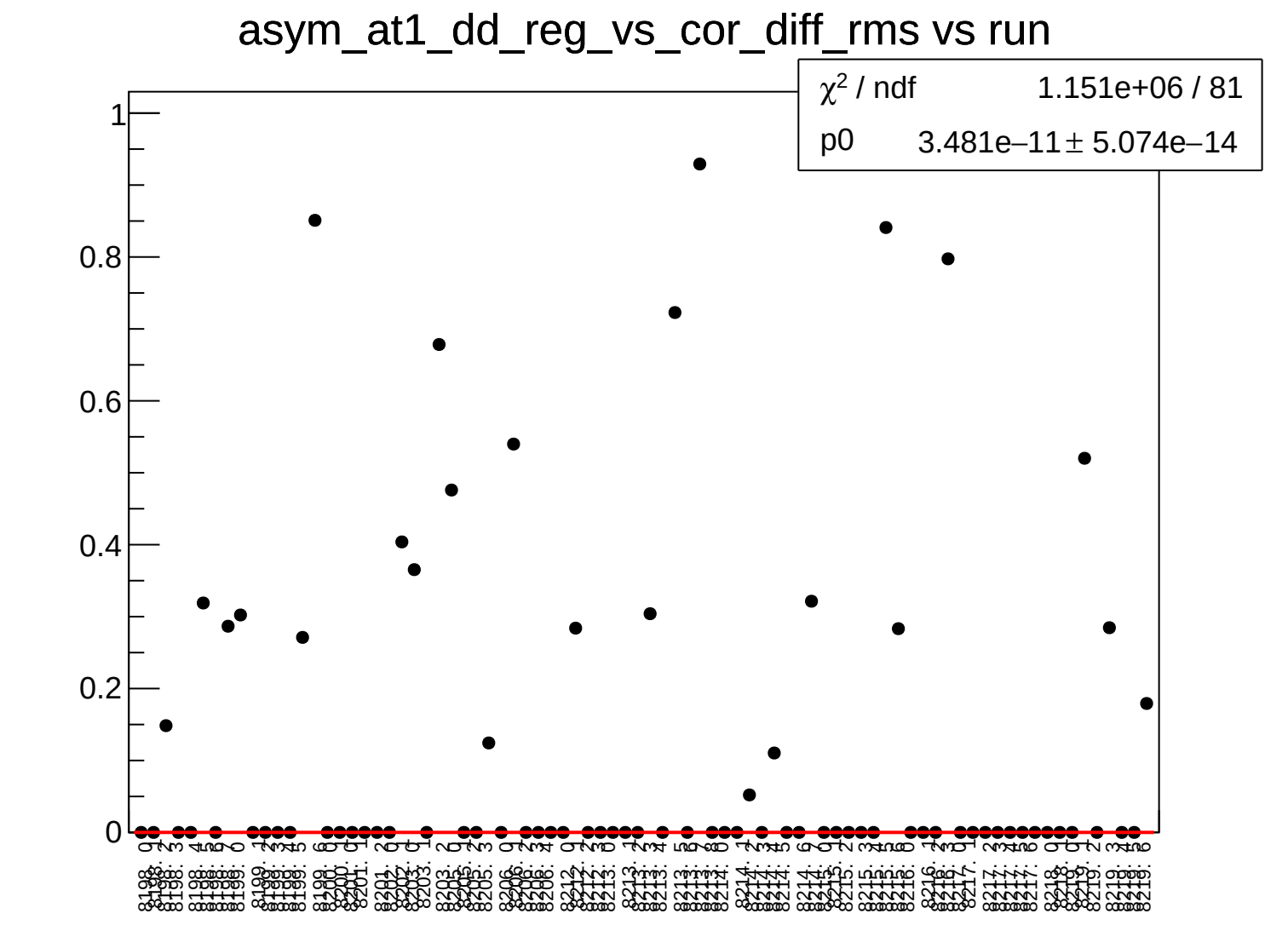

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.15 / 81
p0 886 ± 633.3
20000
10000
0
−10000
−20000
pull
Entries 82
Mean 352
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.0118
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

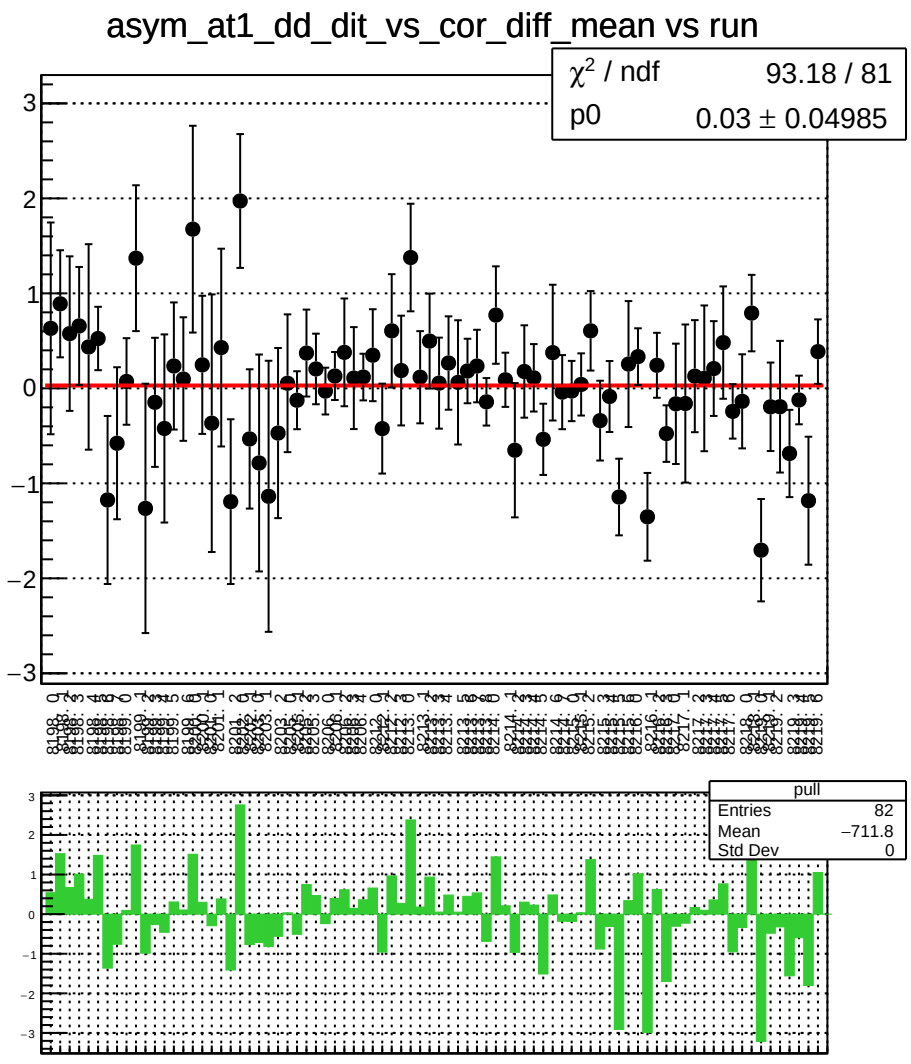

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.22e+04 / 81
p0 568 ± 0.4478
680
660
640
620
600
580
560
540
520
500
480

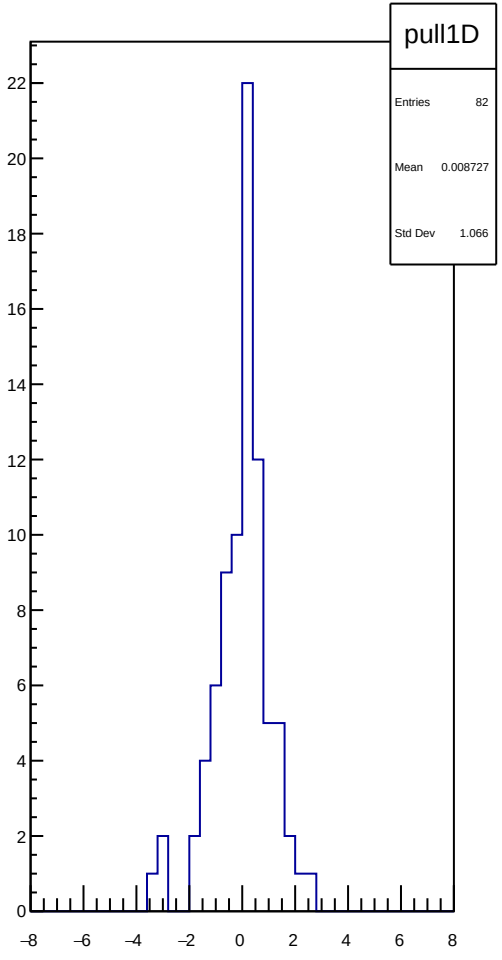

asym_at1_dd_mean vs run
χ² / ndf 81.11 / 81
p0 2437 ± 2120
pull
Entries 82
Mean −1.875e+04
Std Dev 0
pull1D
Entries 82
Mean 0.0003
Std Dev 0.9946

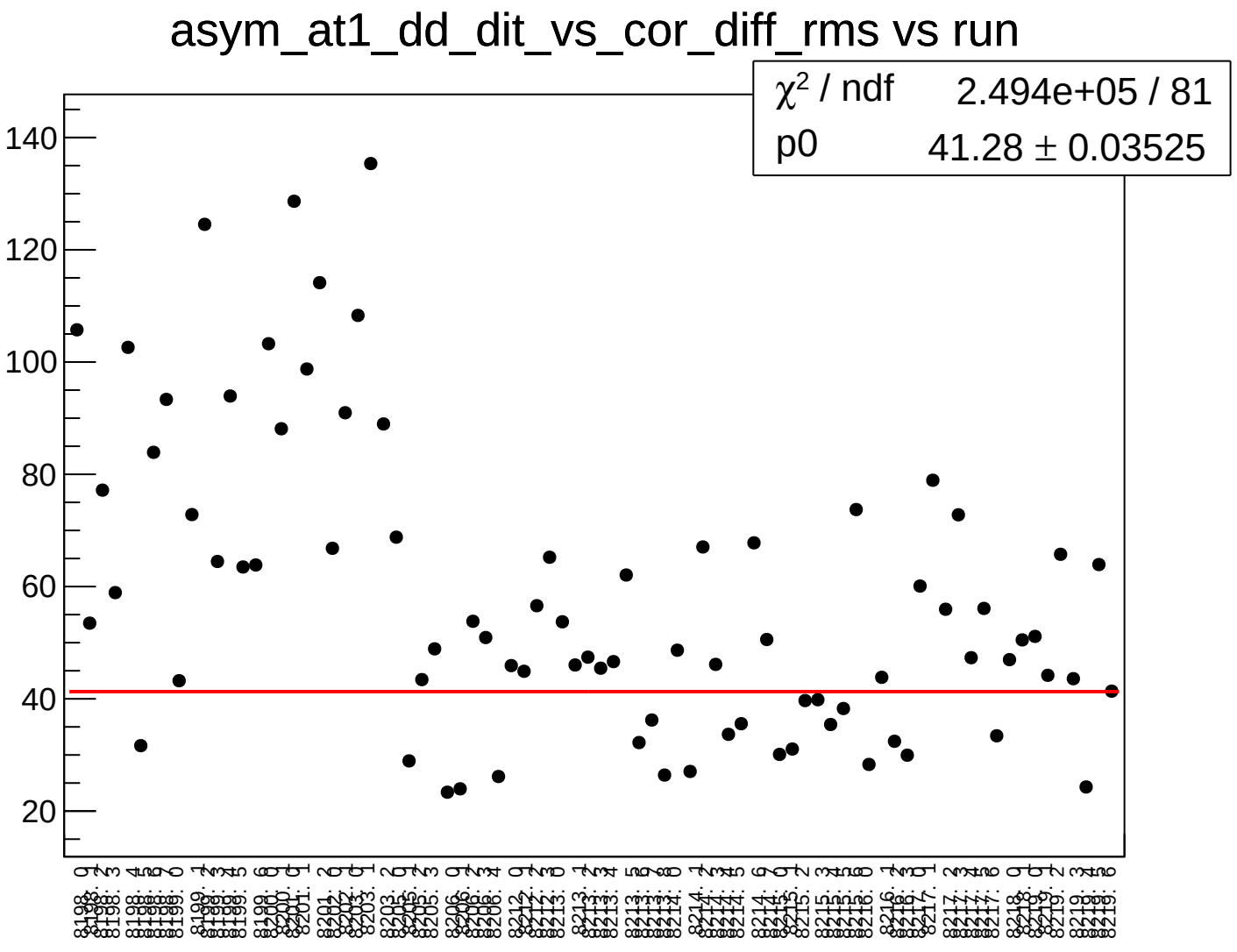

asym_at1_dd_rms vs run
$\chi^2$ / ndf 365.1 / 81
p0 1909 ± 1.499
2000
1980
1960
1940
1920
1900
1880
1860
1840

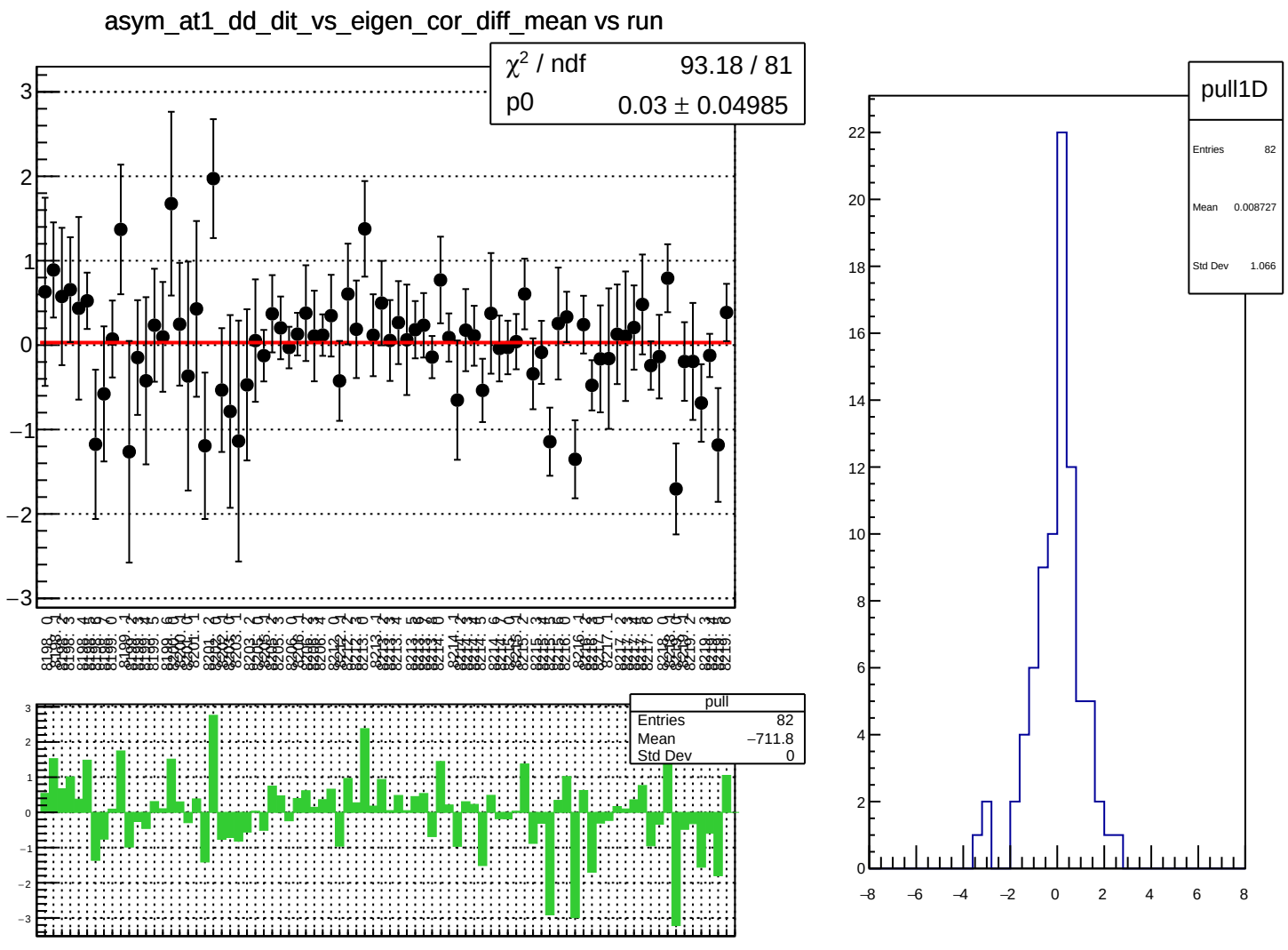

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.66 / 81
p0 −2.008e−13 ± 7.176e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean −38.15
Std Dev 0
pull1D
Entries 82
Mean −0.06404
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

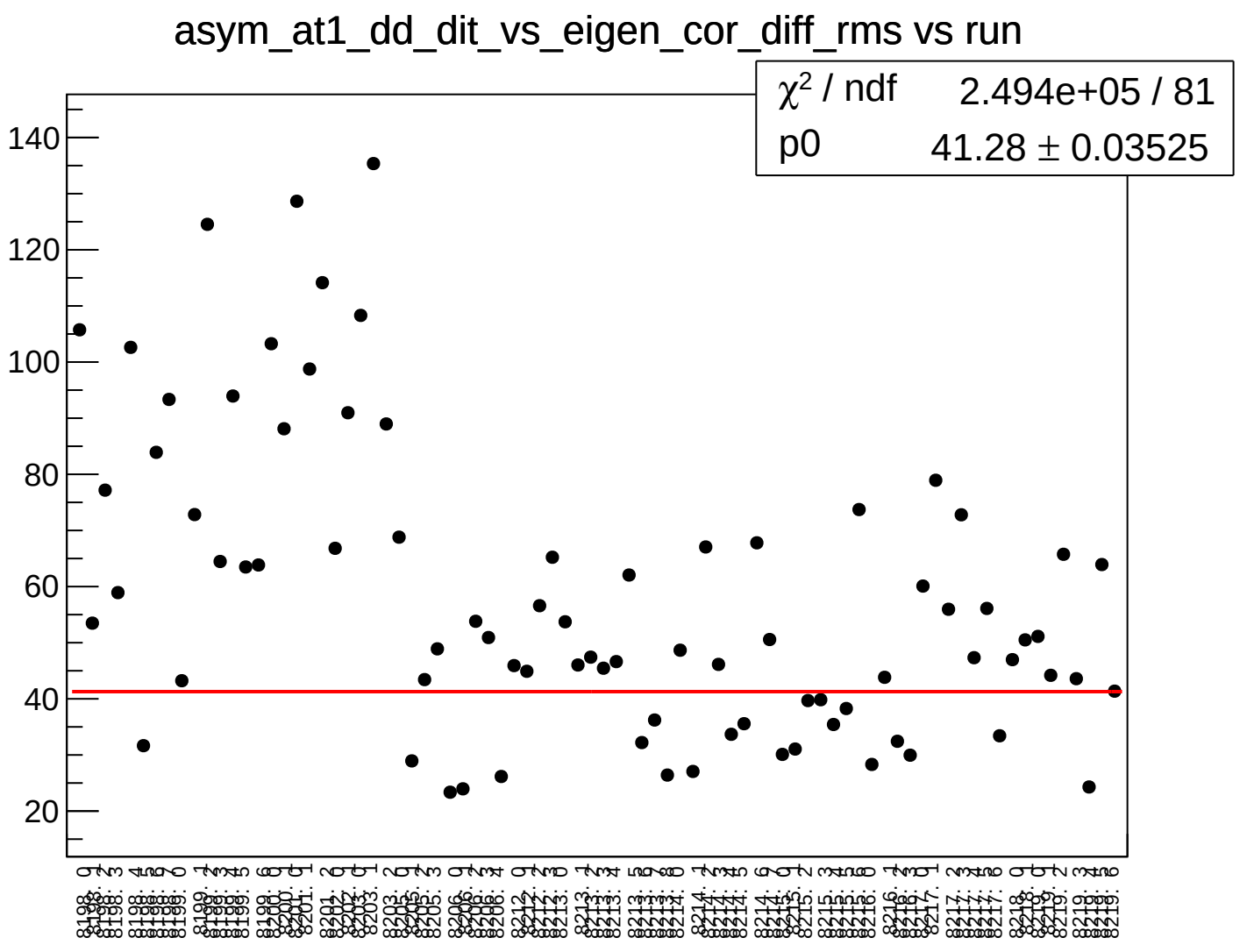

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.151e+06 / 81
p0 3.481e−11 ± 5.074e−14
1
0.8
0.6
0.4
0.2
0

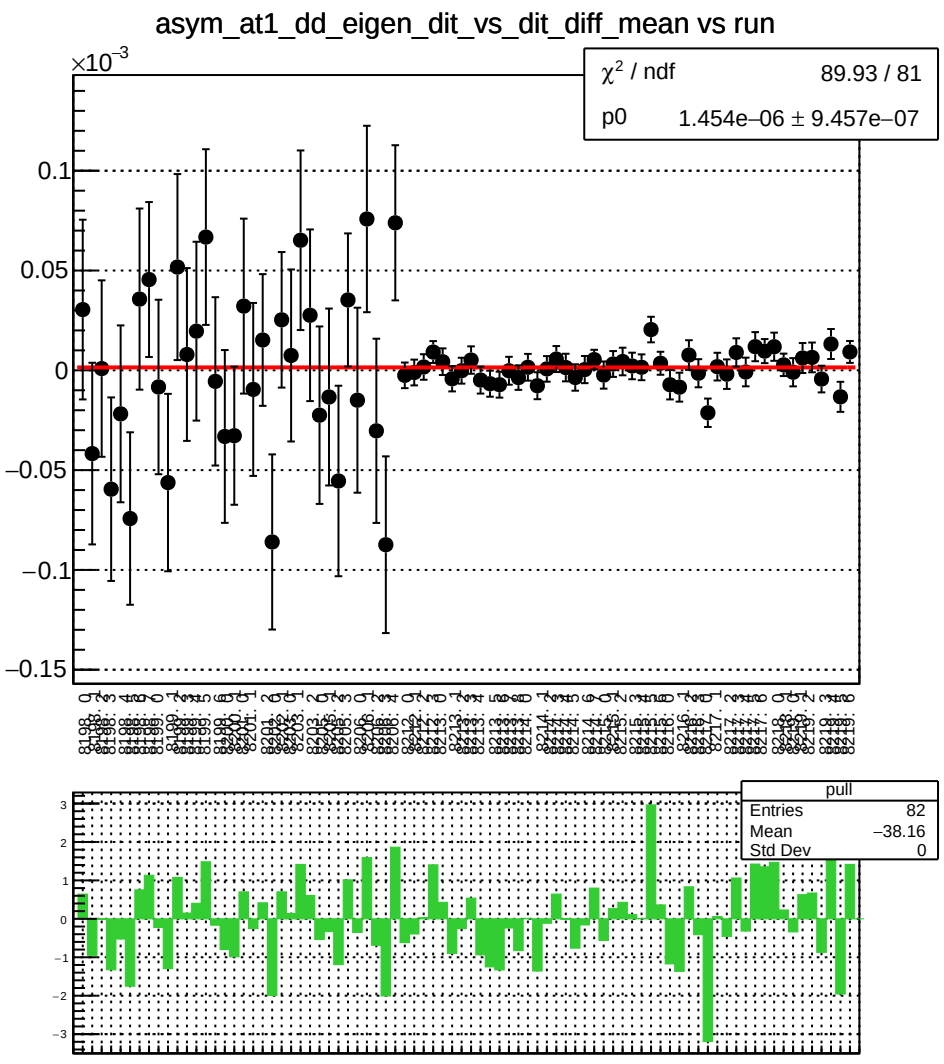

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.18 / 81
p0 0.03 ± 0.04985
pull
Entries 82
Mean −711.8
Std Dev 0

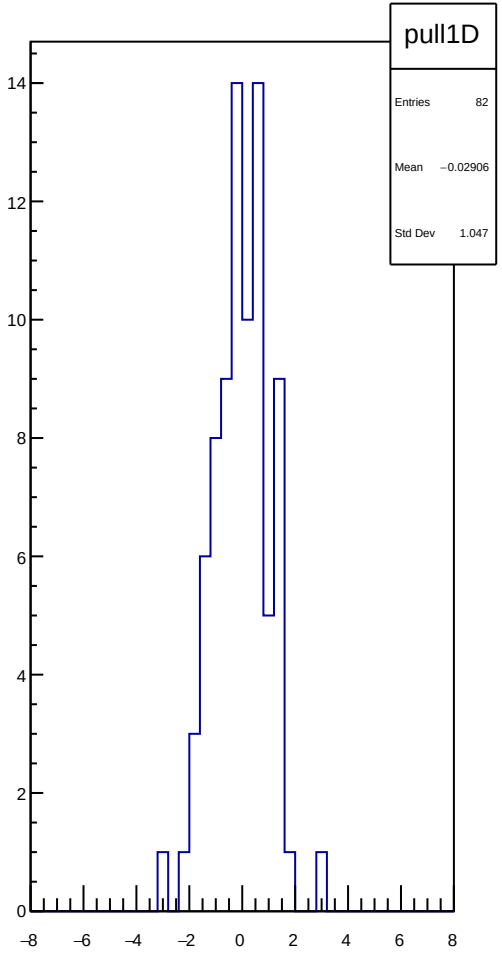

pull1D
Entries 82
Mean 0.008727
Std Dev 1.066

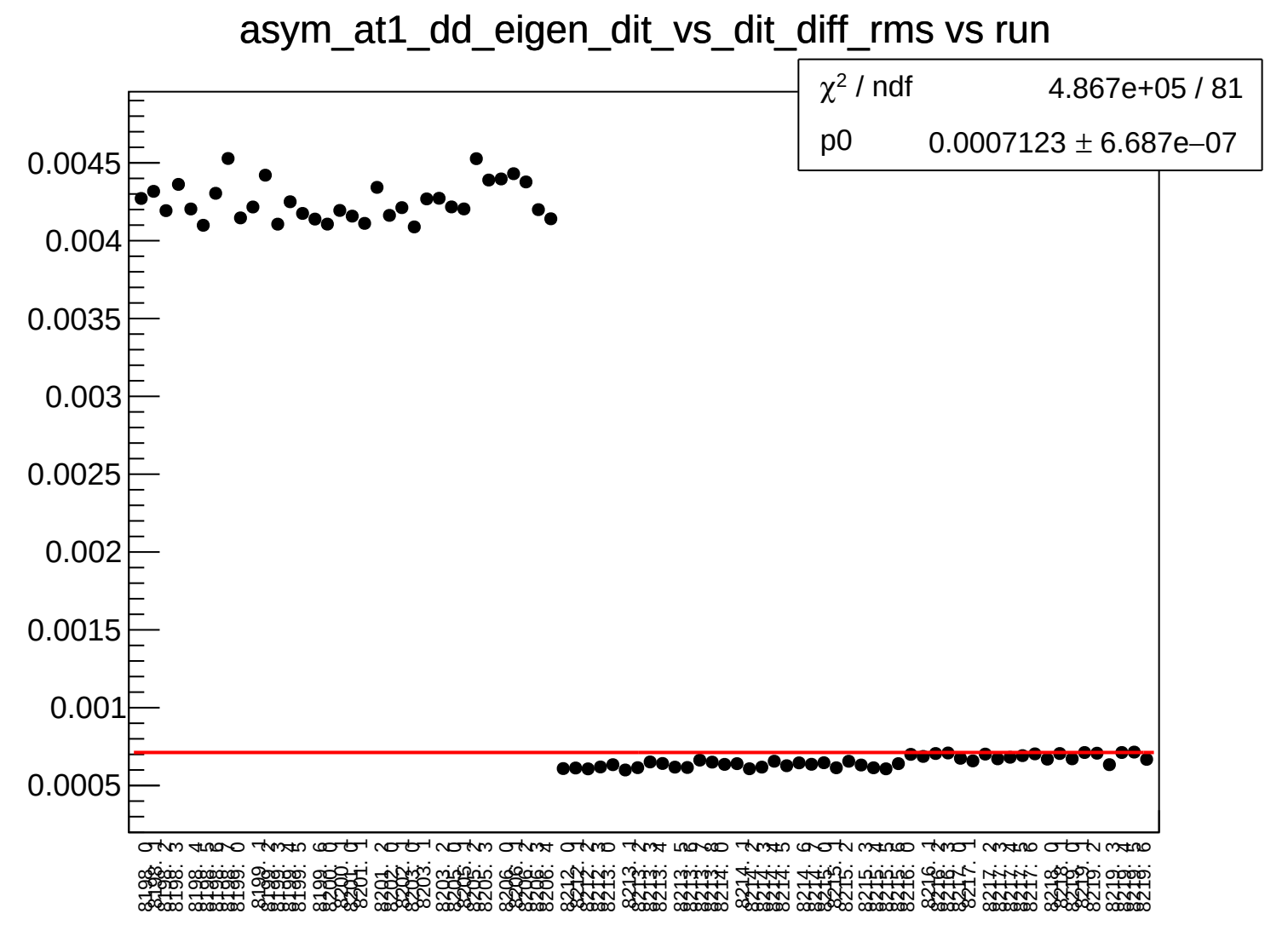

asym_at1_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.494e+05 / 81
p0 41.28 ± 0.03525
140
120
100
80
60
40
20

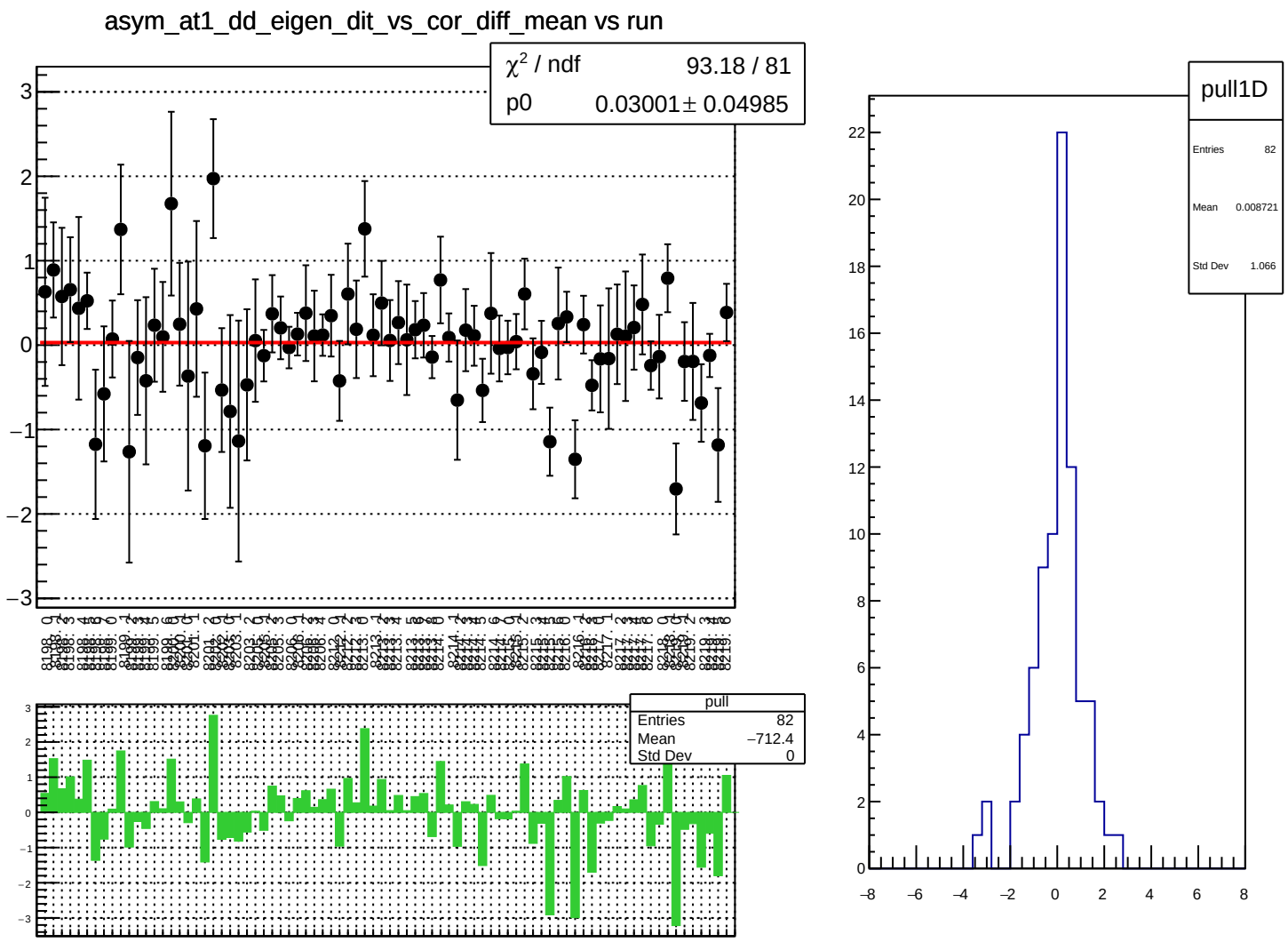

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.18 / 81
p0 0.03 ± 0.04985
pull
Entries 82
Mean −711.8
Std Dev 0
pull1D
Entries 82
Mean 0.008727
Std Dev 1.066

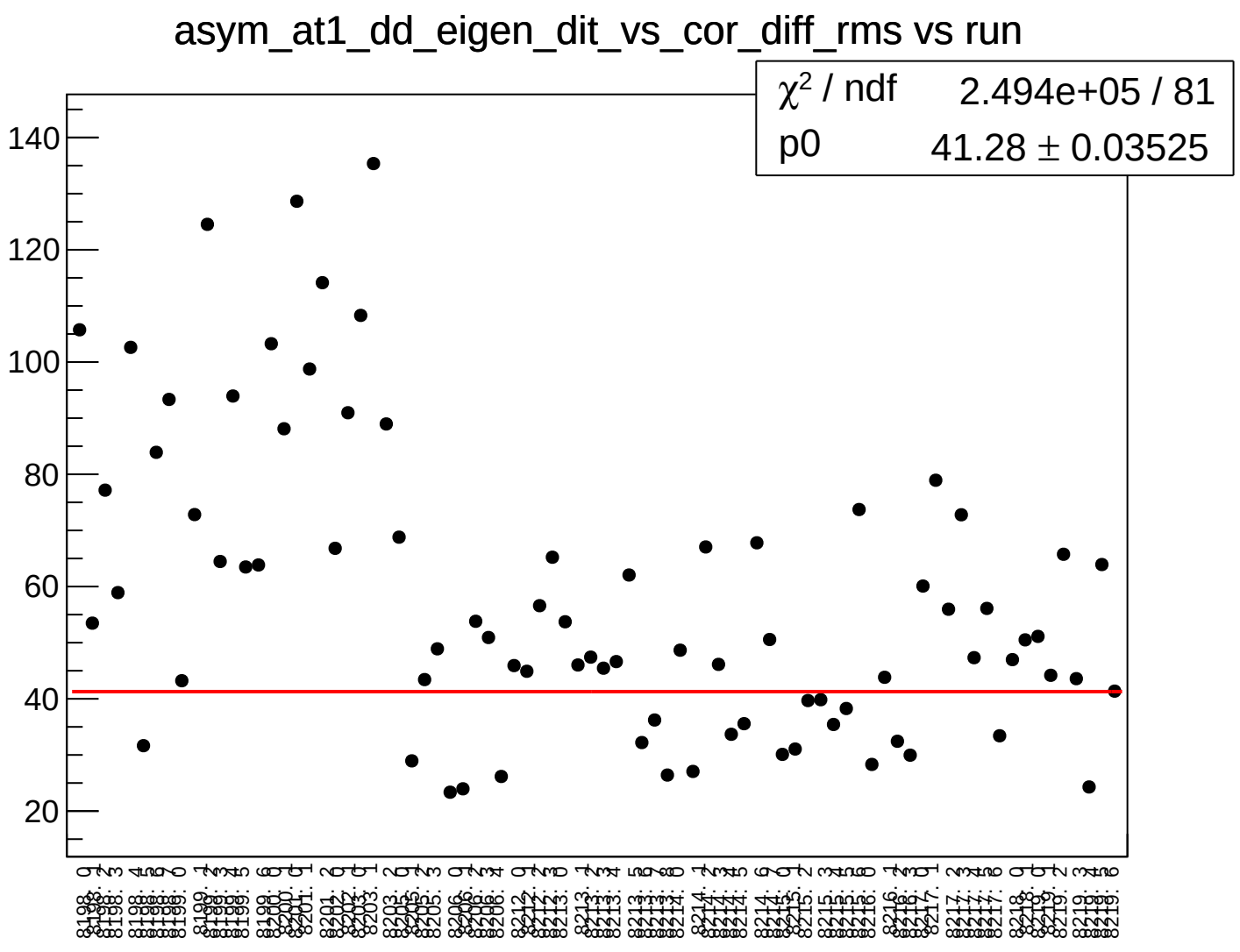

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.494e+05 / 81
p0 41.28 ± 0.03525
140
120
100
80
60
40
20

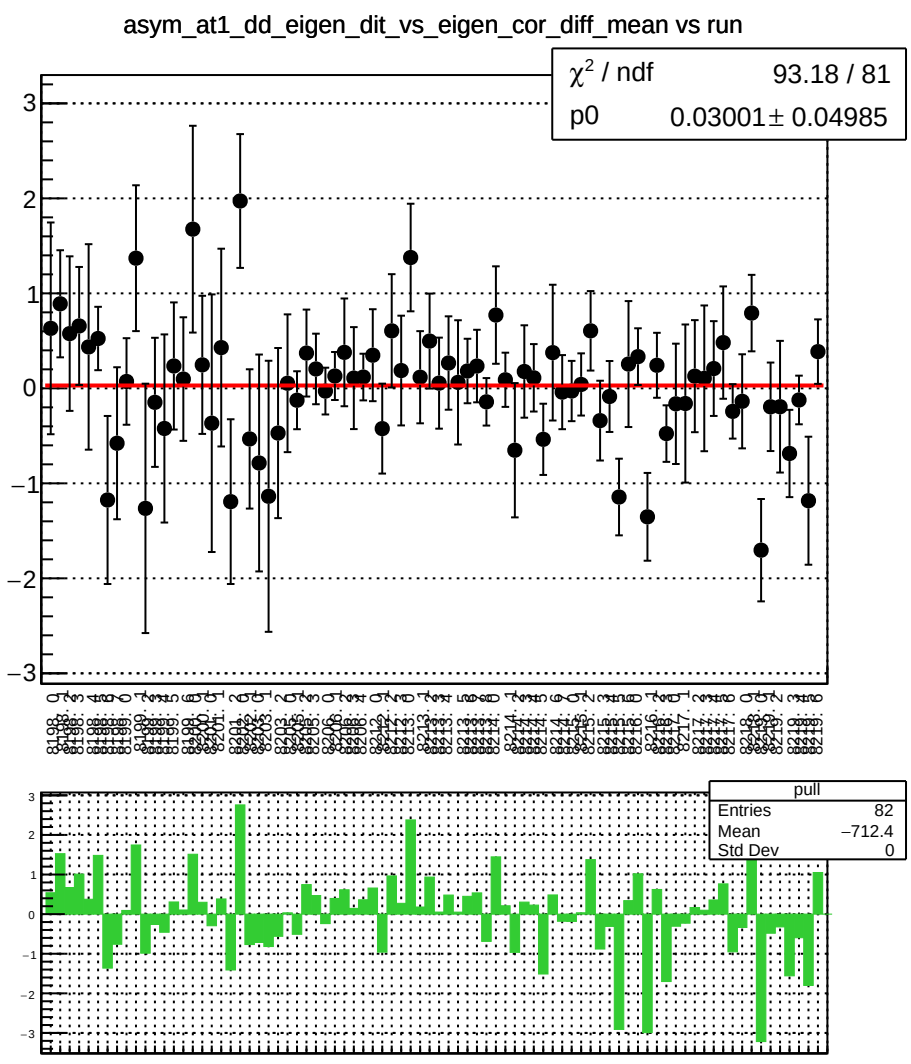

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.93 / 81
p0 1.454e−06 ± 9.457e−07
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 82
Mean −38.16
Std Dev 0
3
2
1
0
−1
−2
−3

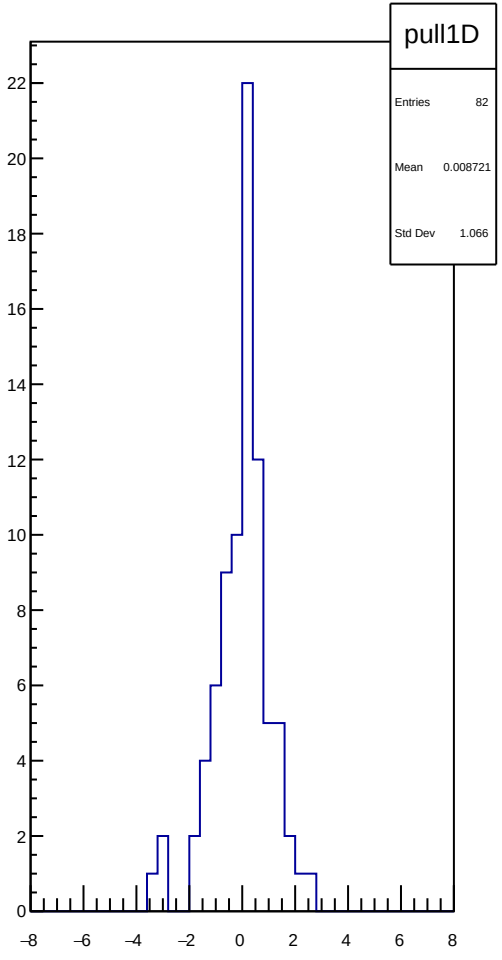

pull1D
Entries 82
Mean −0.02906
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

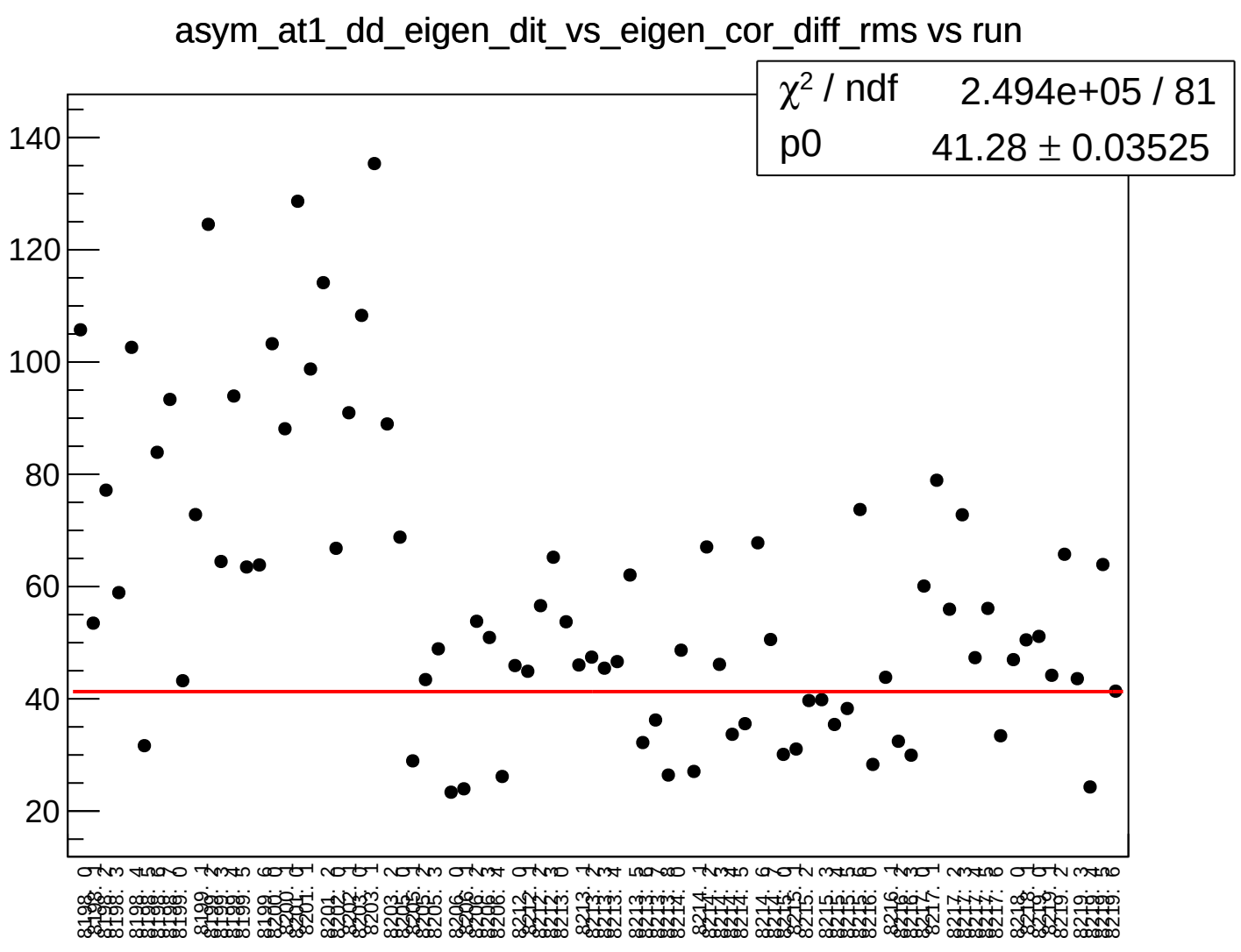

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.867e+05 / 81
p0 0.0007123 ± 6.687e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

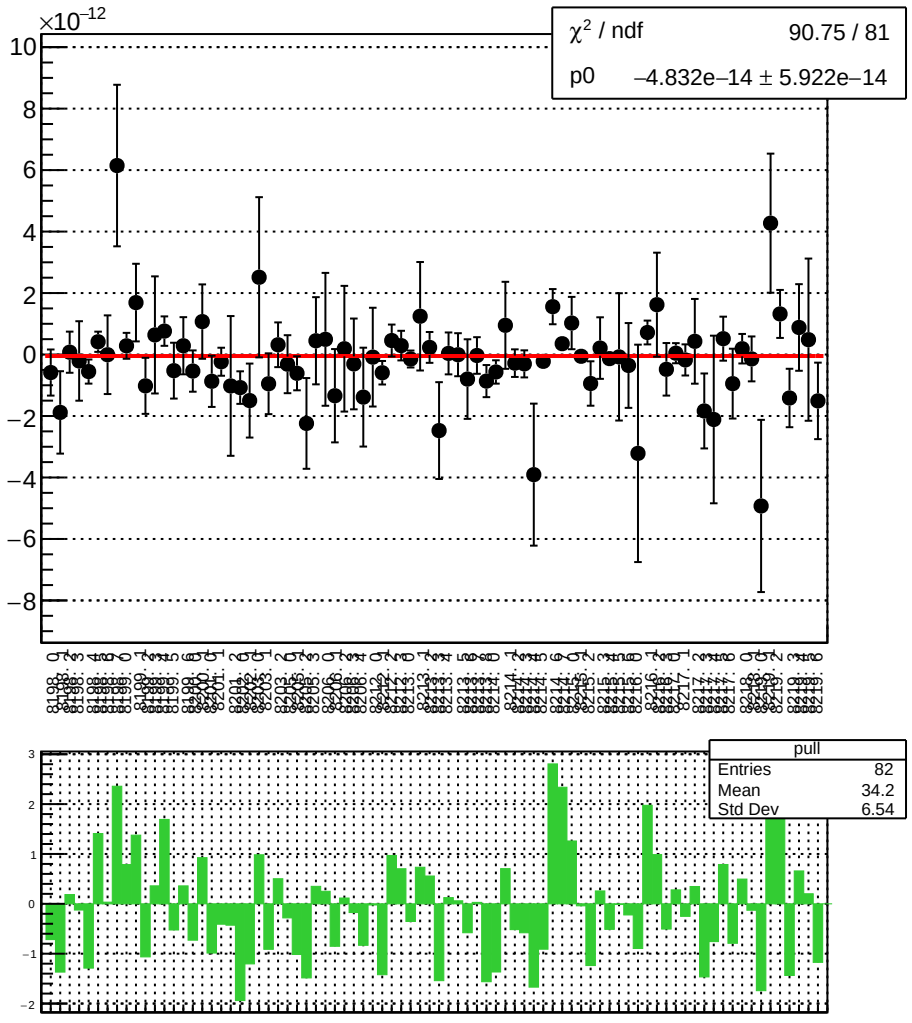

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.18 / 81
p0 0.03001 ± 0.04985
pull
Entries 82
Mean −712.4
Std Dev 0
pull1D
Entries 82
Mean 0.008721
Std Dev 1.066

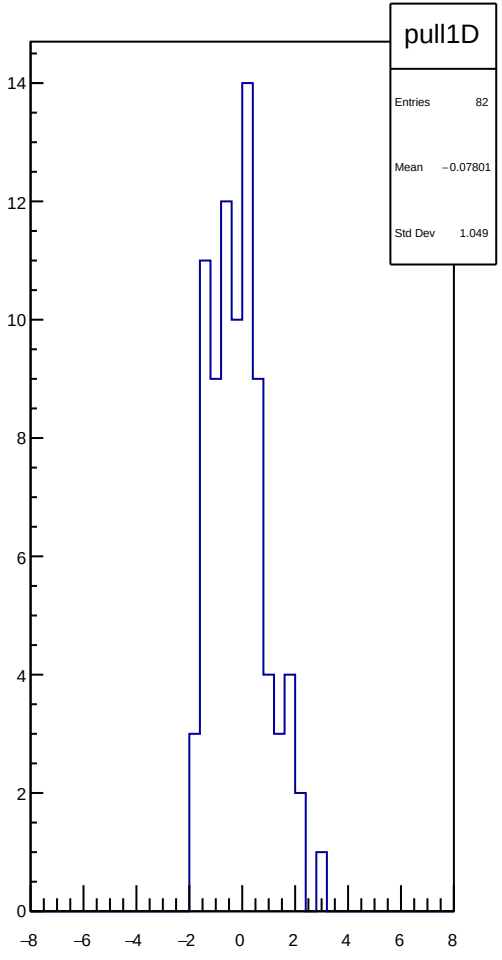

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.494e+05 / 81
p0 41.28 ± 0.03525
140
120
100
80
60
40
20

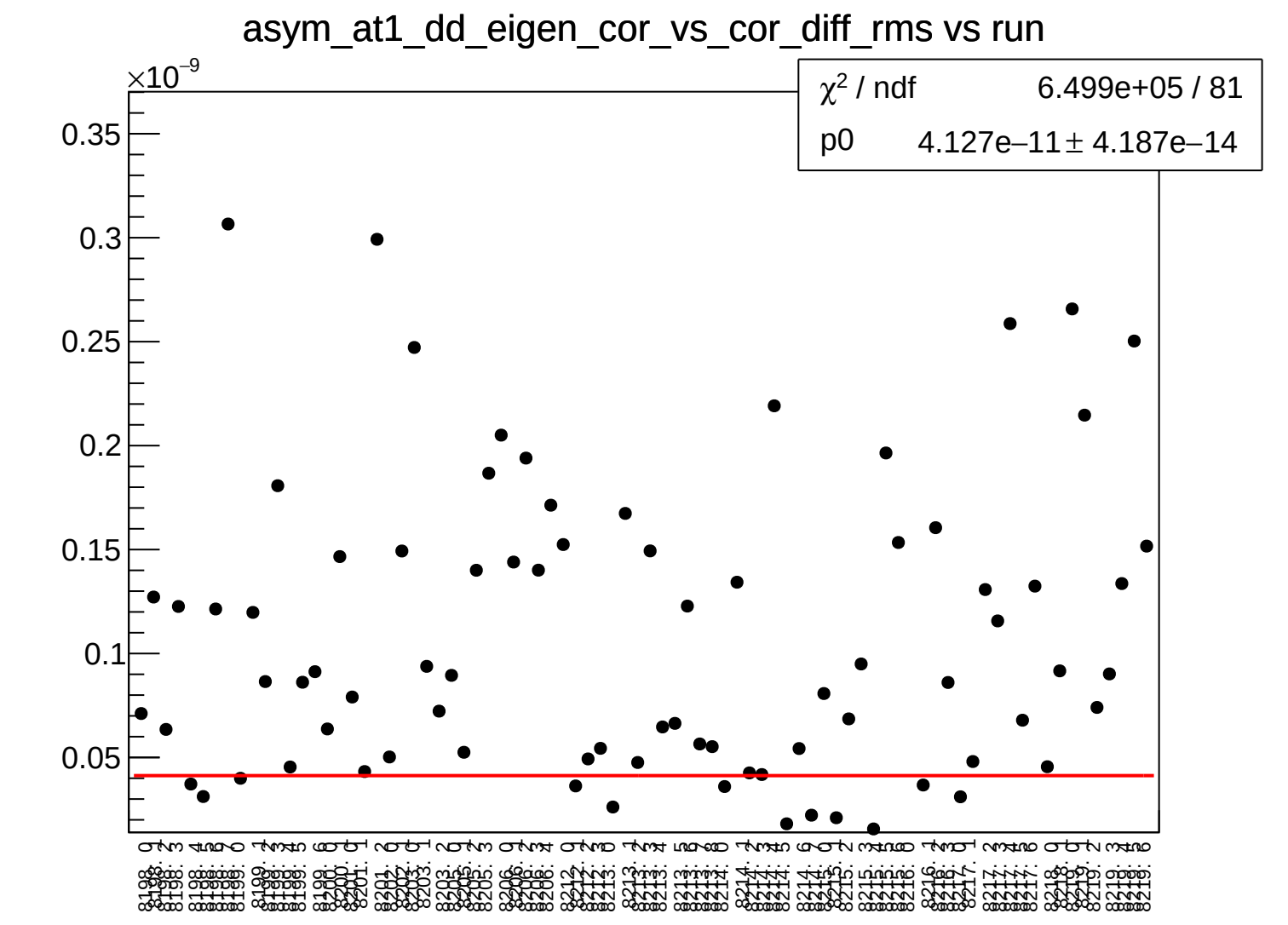

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.18 / 81
p0 0.03001 ± 0.04985
pull
Entries 82
Mean −712.4
Std Dev 0

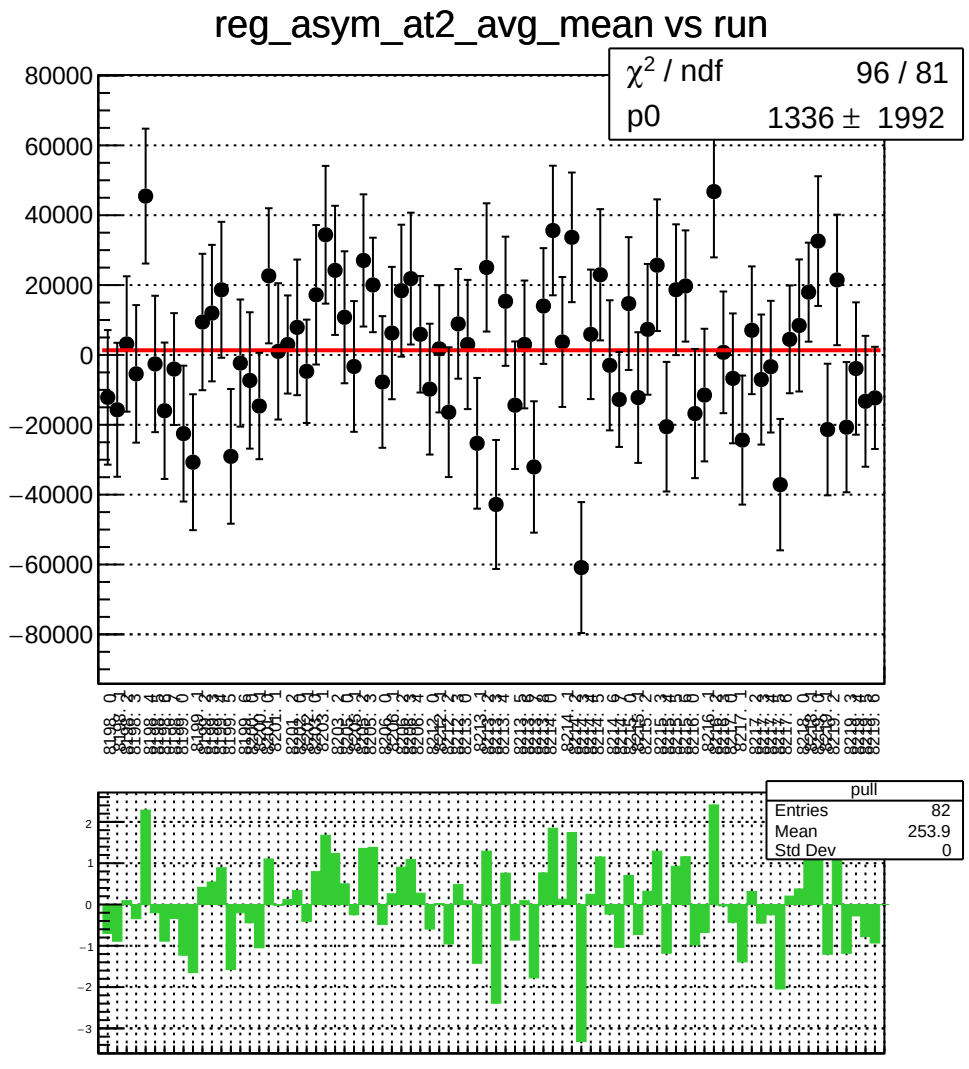

pull1D
Entries 82
Mean 0.008721
Std Dev 1.066

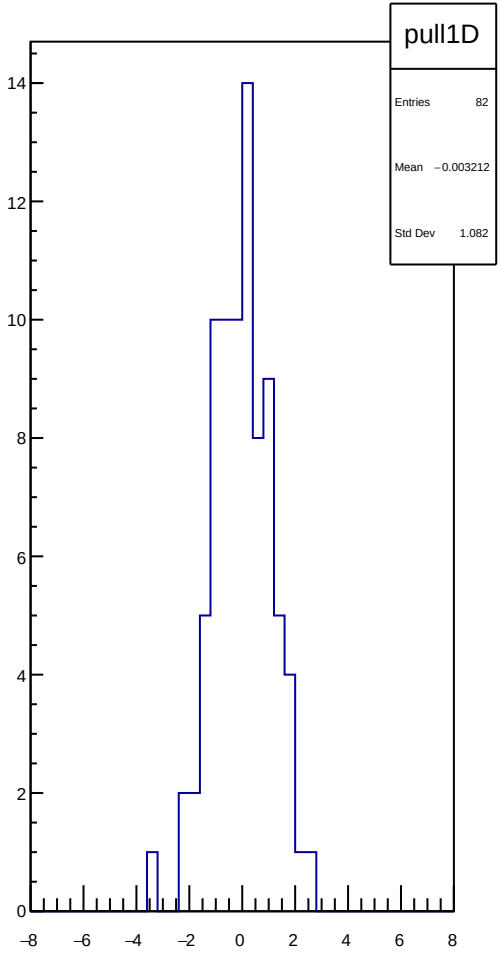

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.494e+05 / 81
p0 41.28 ± 0.03525
140
120
100
80
60
40
20

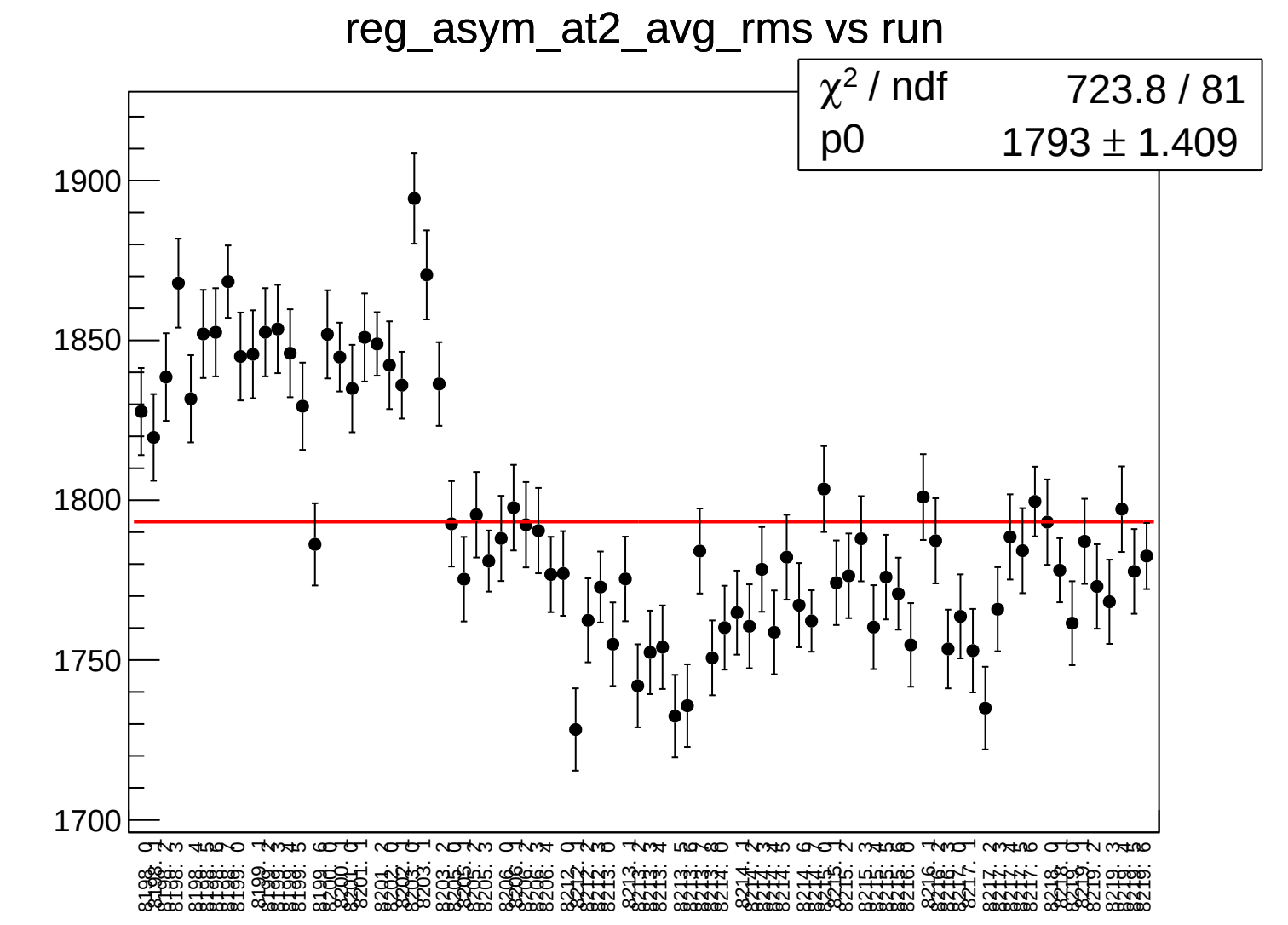

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.75 / 81
p0 −4.832e−14 ± 5.922e−14
pull
Entries 82
Mean 34.2
Std Dev 6.54

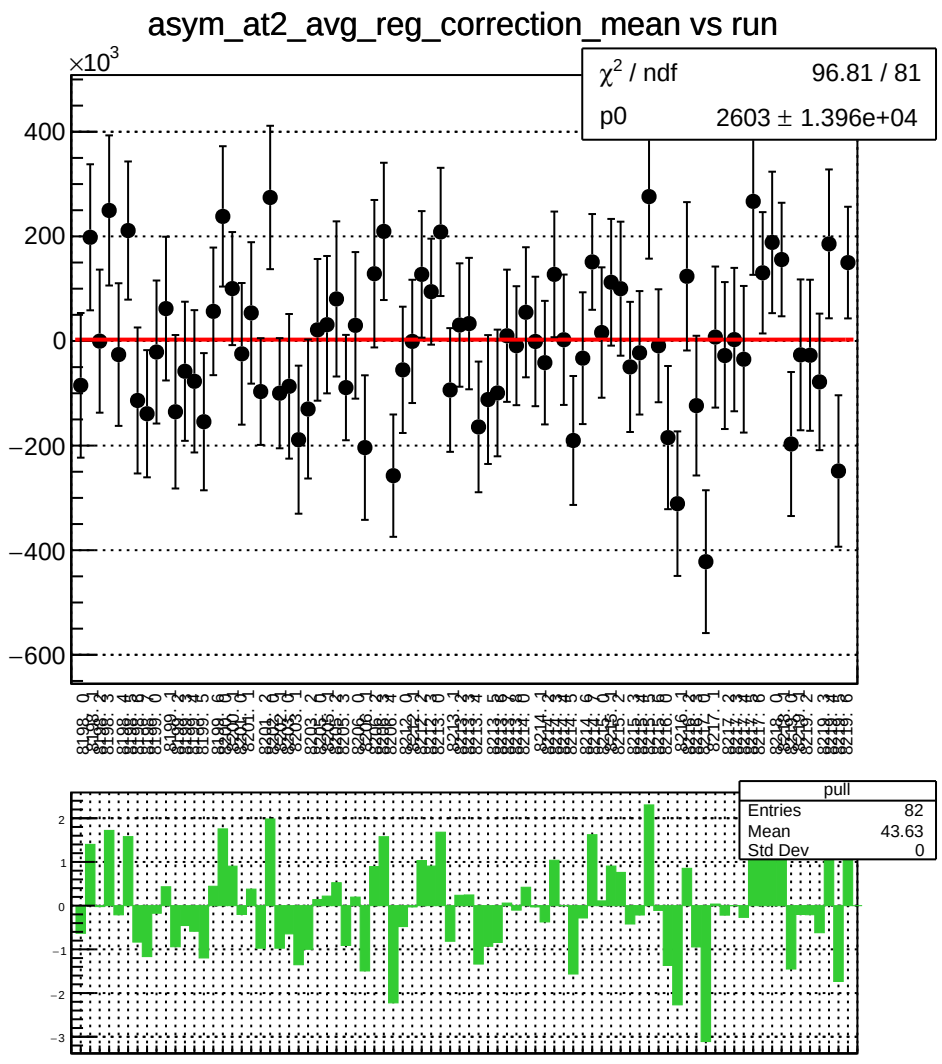

pull1D
Entries 82
Mean −0.07801
Std Dev 1.049

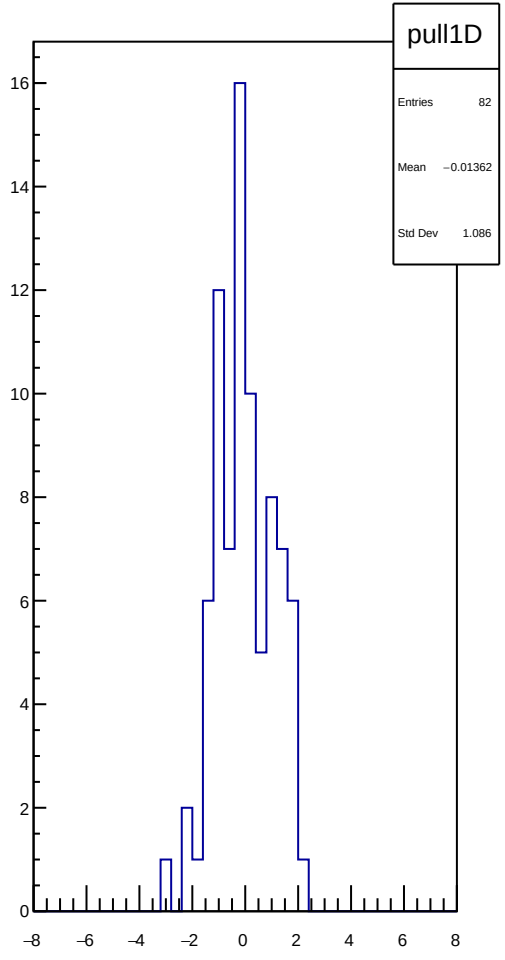

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.499e+05 / 81
p0 4.127e−11 ± 4.187e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

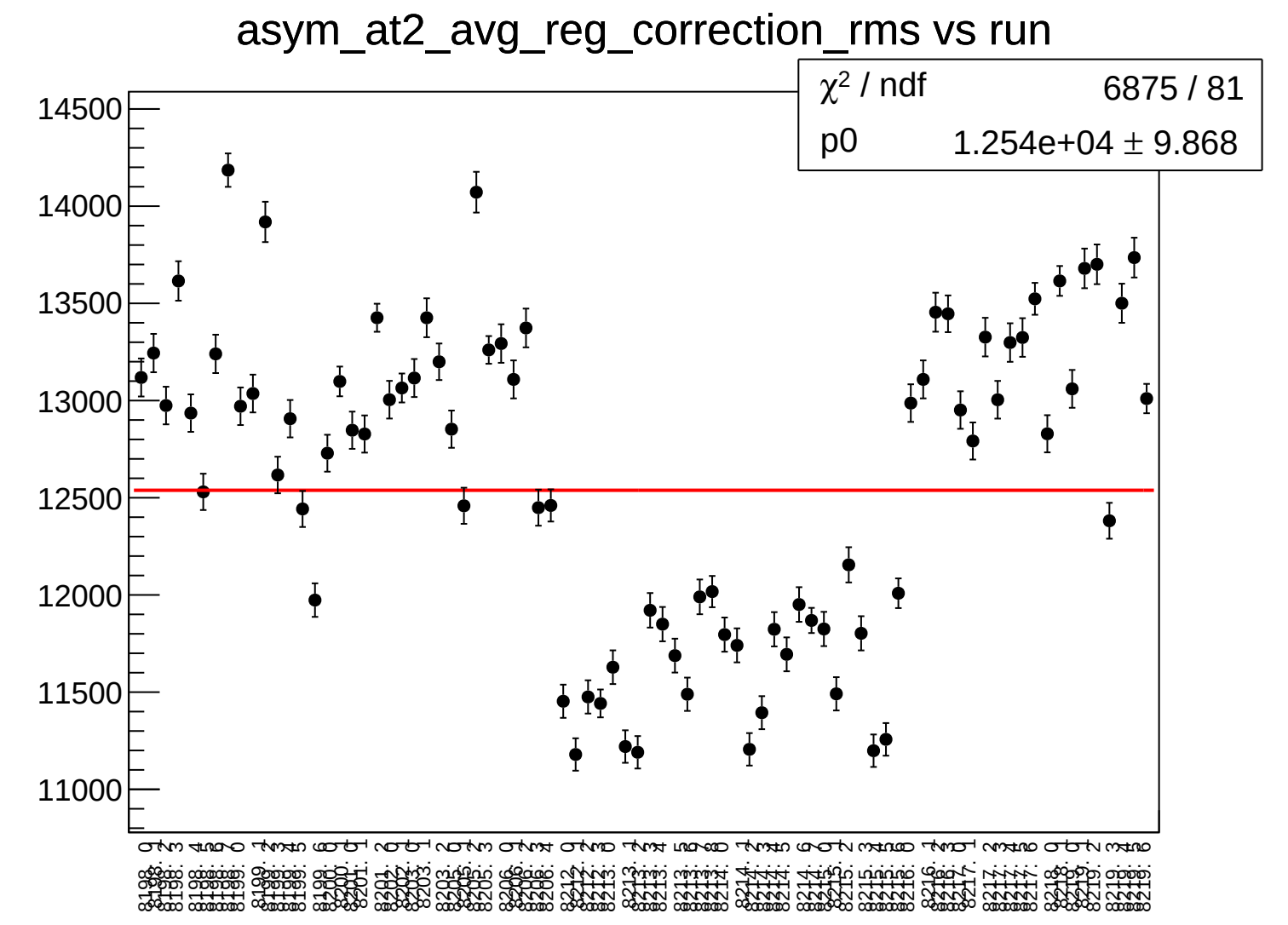

reg_asym_at2_avg_mean vs run
χ² / ndf 96 / 81
p0 1336 ± 1992
pull
Entries 82
Mean 253.9
Std Dev 0

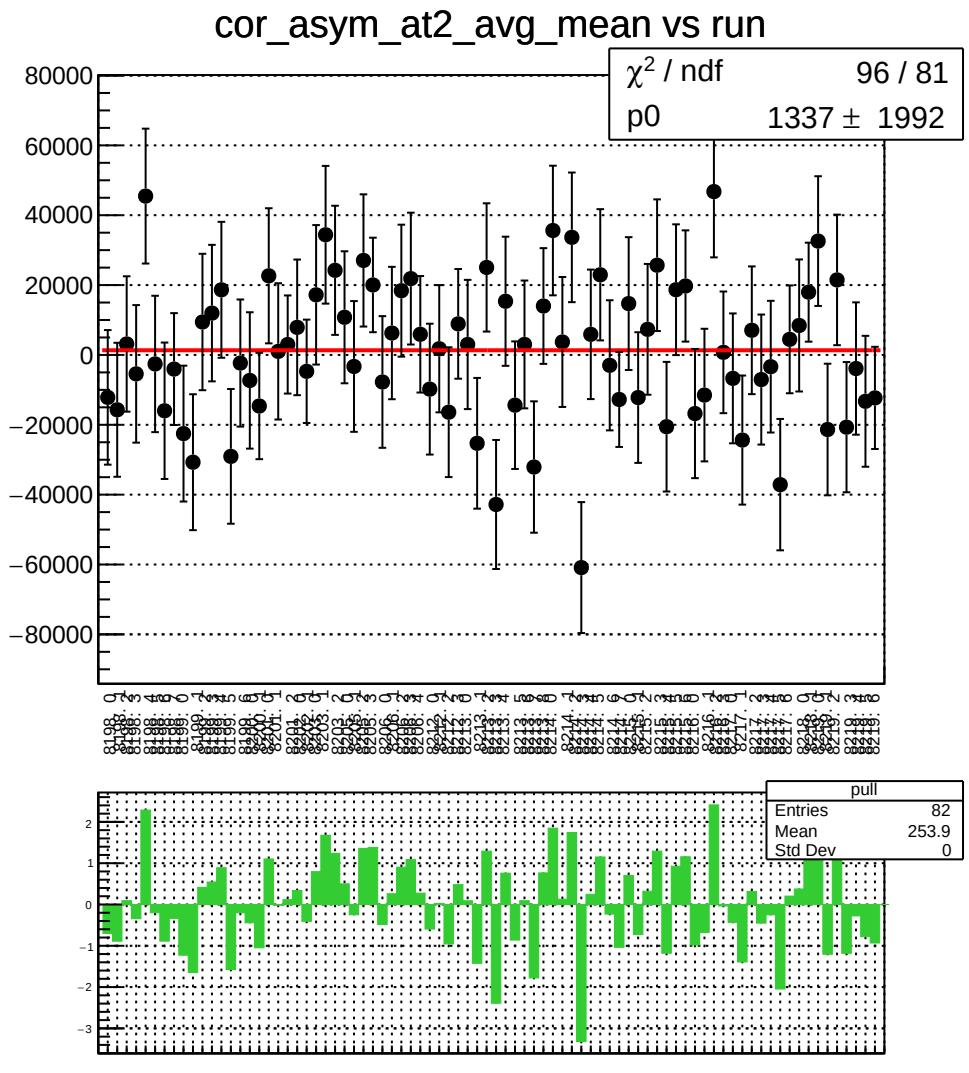

pull1D
Entries 82
Mean −0.003212
Std Dev 1.082

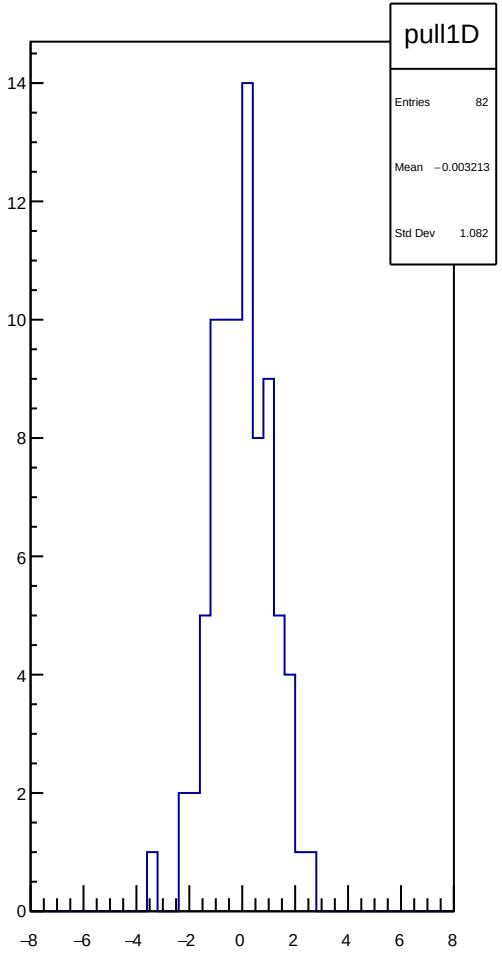

reg_asym_at2_avg_rms vs run
χ² / ndf 723.8 / 81
p0 1793 ± 1.409
1900
1850
1800
1750
1700

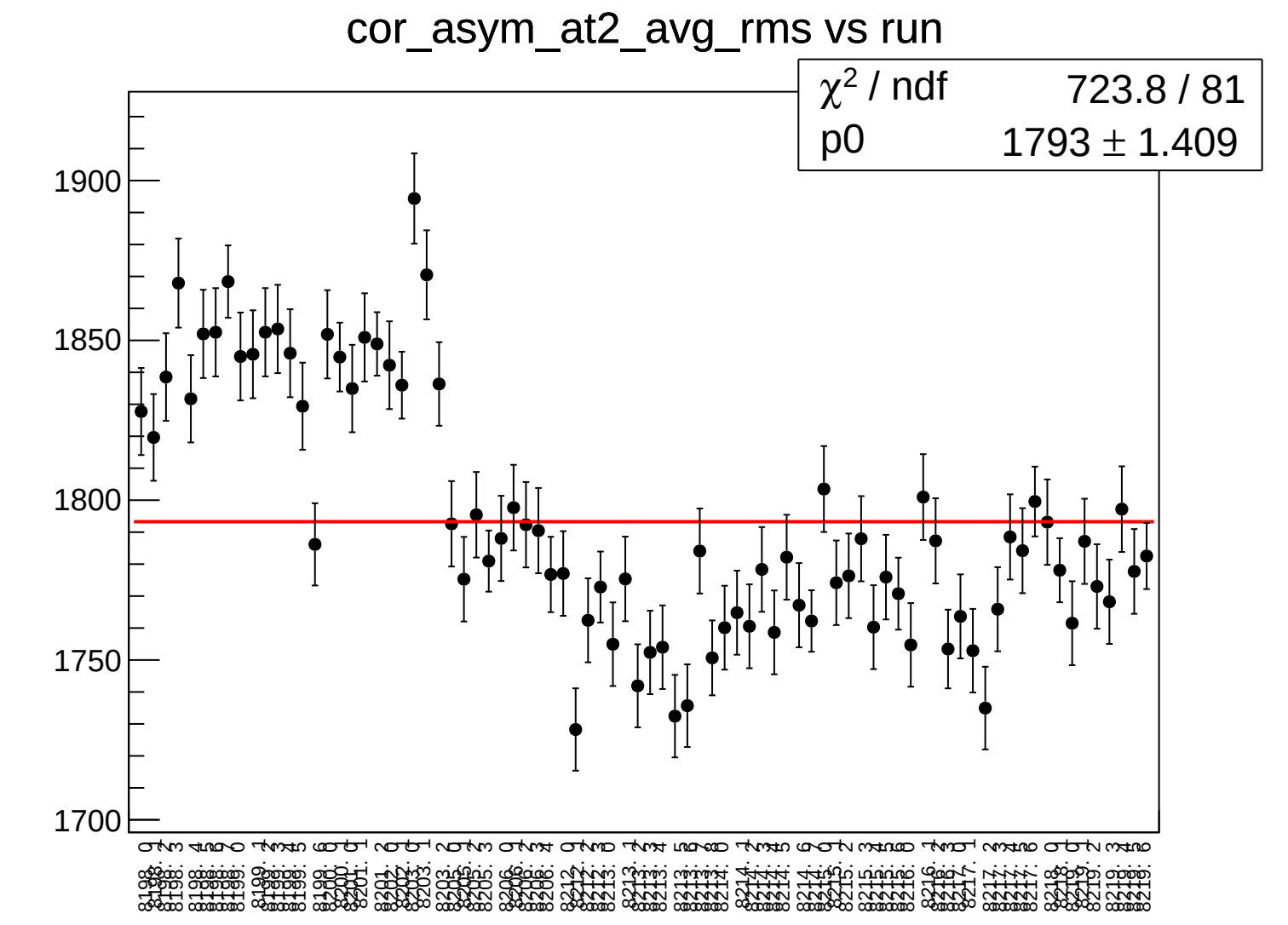

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.81 / 81
p0 2603 ± 1.396e+04
400
200
0
−200
−400
−600
pull
Entries 82
Mean 43.63
Std Dev 0
2
1
0
−1
−2
−3

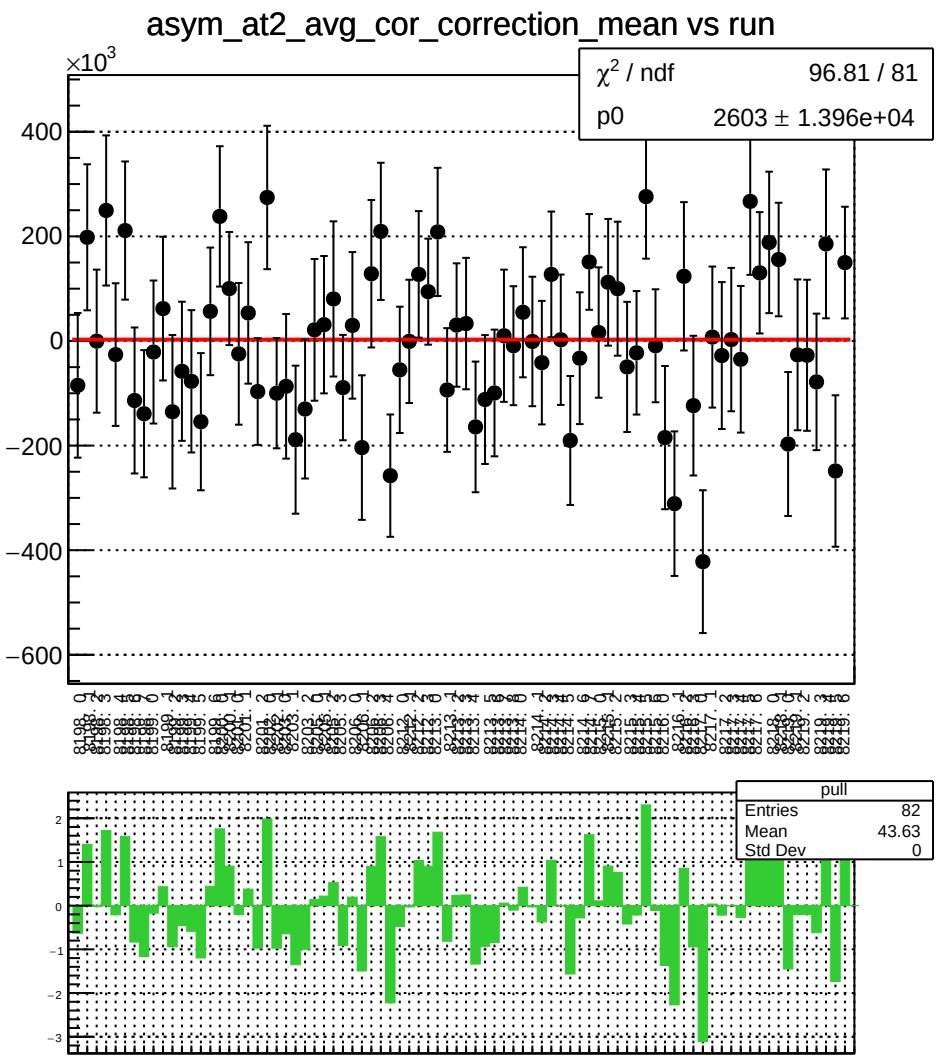

pull1D
Entries 82
Mean −0.01362
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

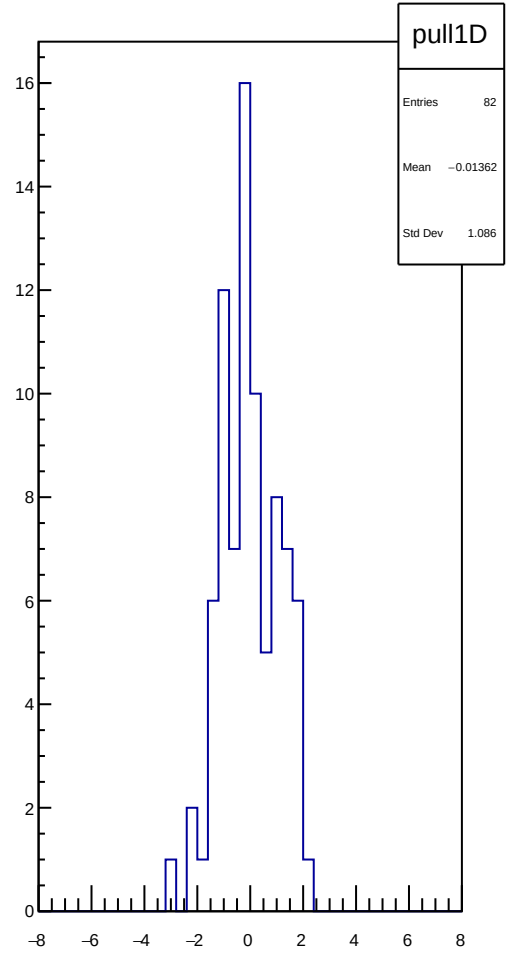

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 6875 / 81
p0 1.254e+04 ± 9.868
14500
14000
13500
13000
12500
12000
11500
11000

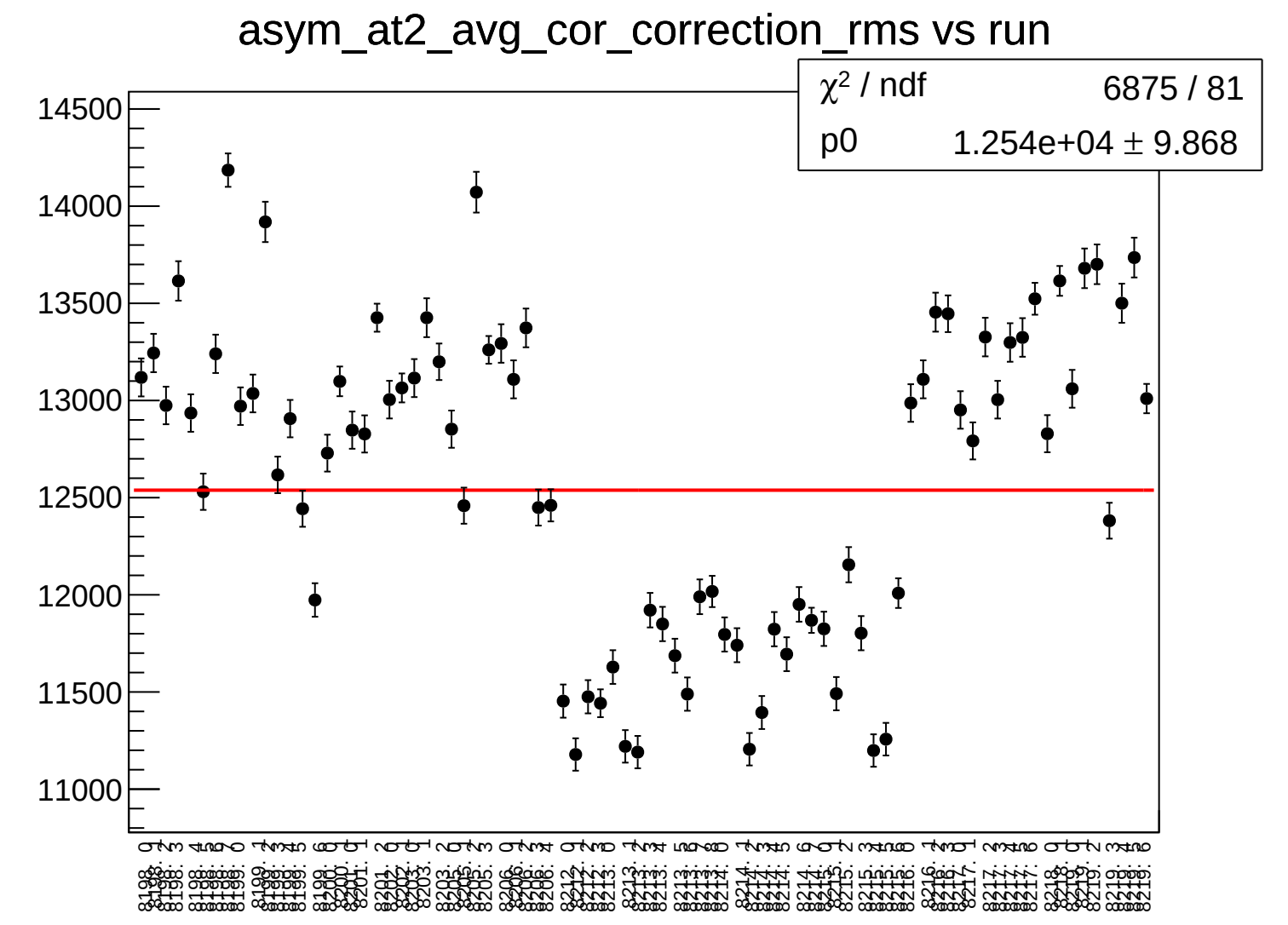

cor_asym_at2_avg_mean vs run
χ² / ndf 96 / 81
p0 1337 ± 1992
pull
Entries 82
Mean 253.9
Std Dev 0

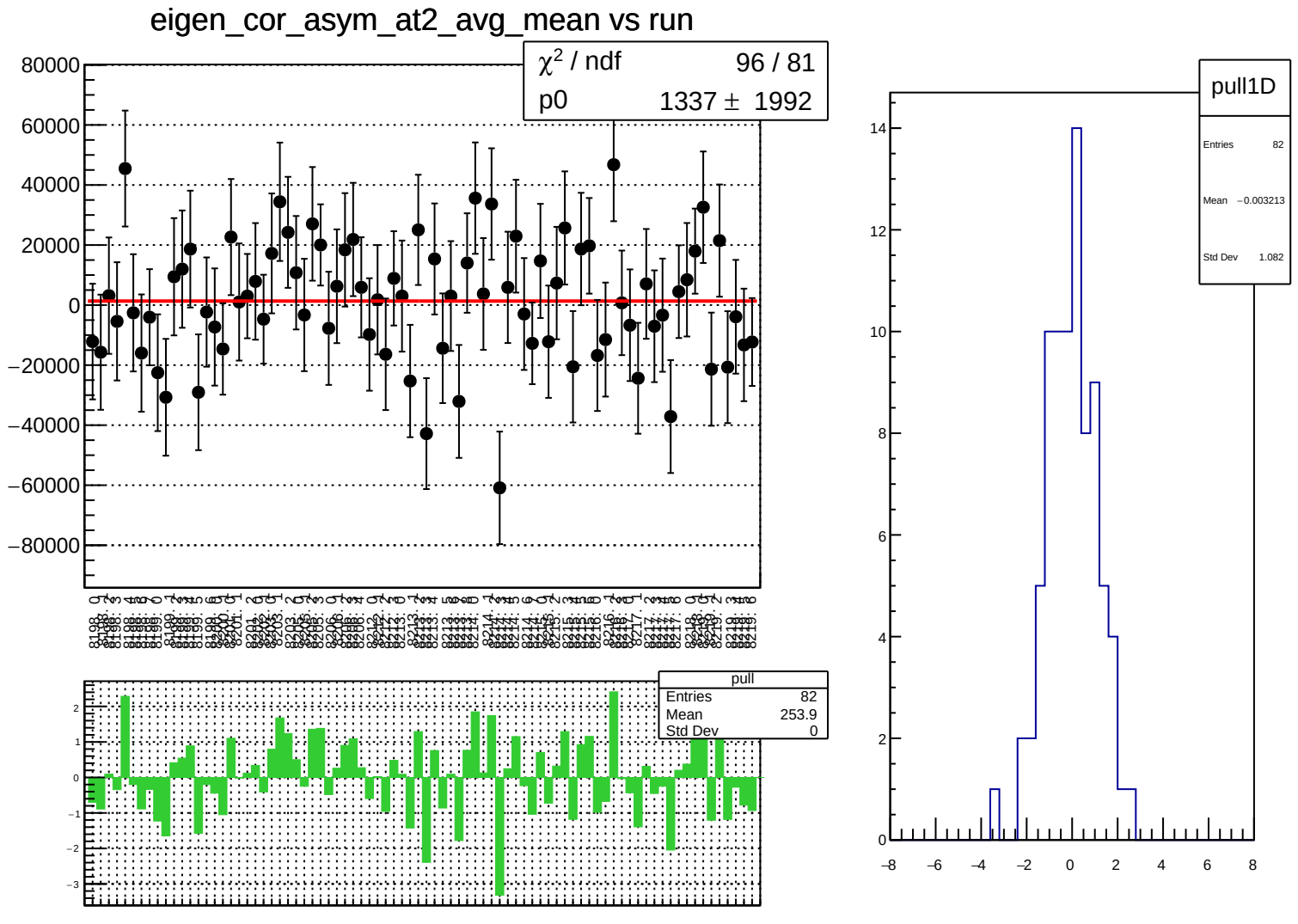

pull1D
Entries 82
Mean −0.003213
Std Dev 1.082

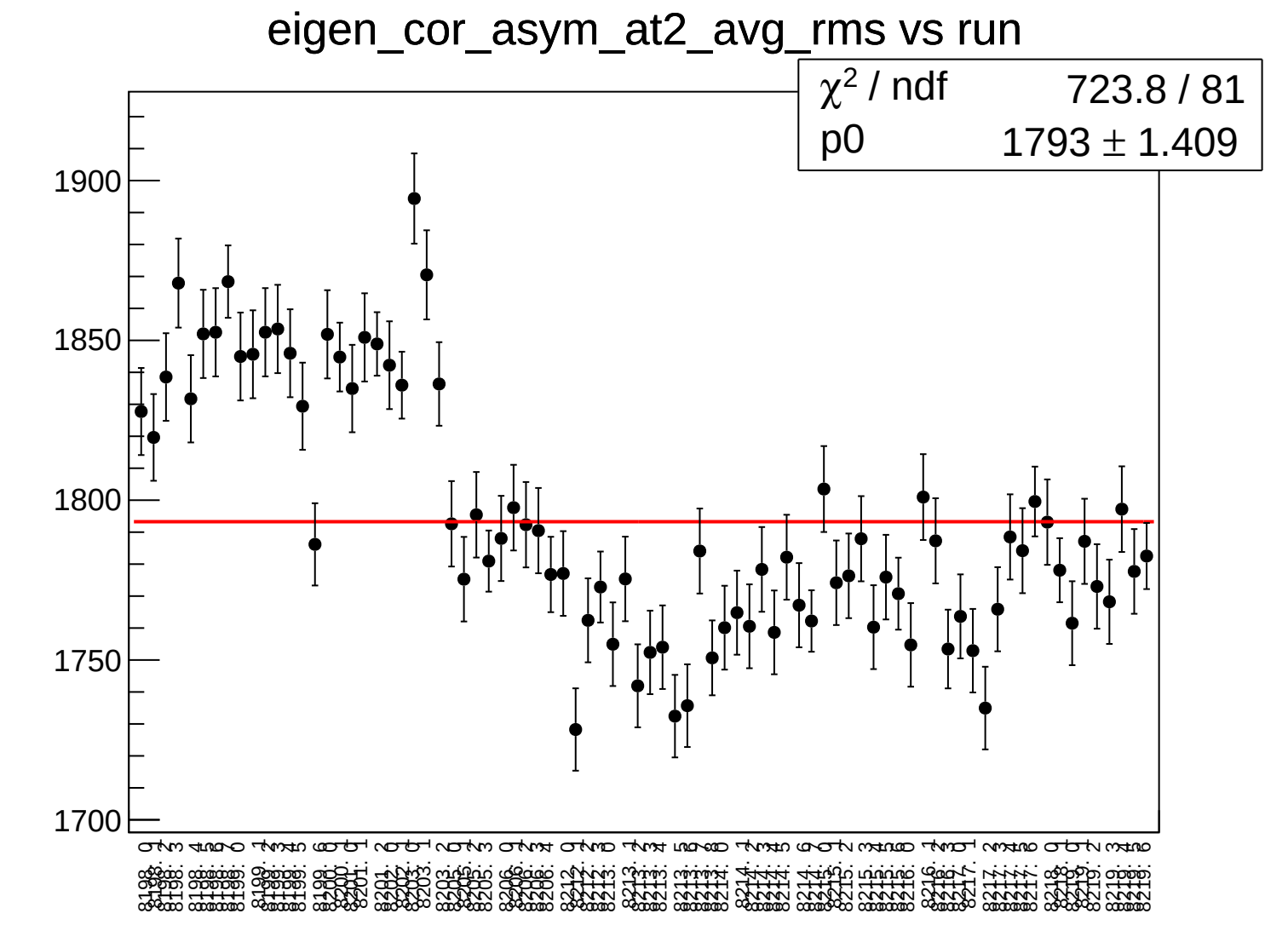

cor_asym_at2_avg_rms vs run
χ² / ndf 723.8 / 81
p0 1793 ± 1.409
1900
1850
1800
1750
1700

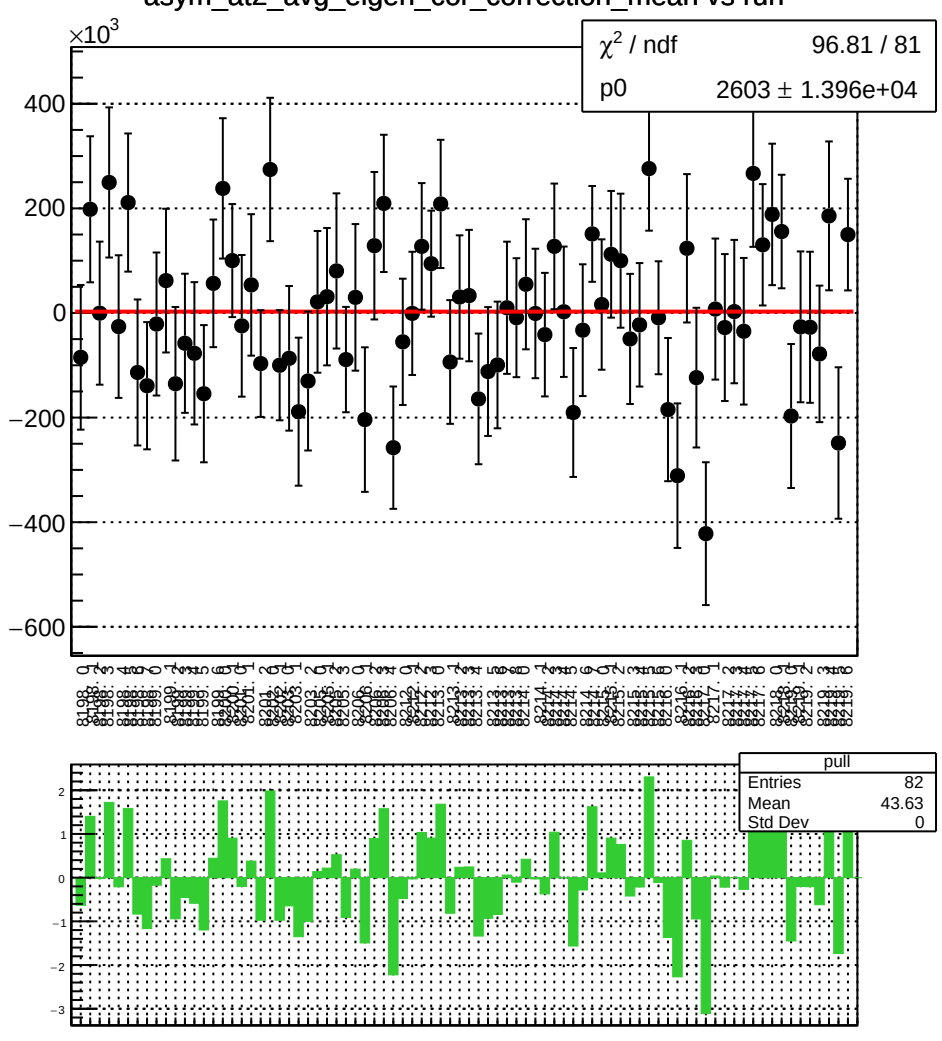

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.81 / 81
p0 2603 ± 1.396e+04
400
200
0
−200
−400
−600
pull
Entries 82
Mean 43.63
Std Dev 0
2
1
0
−1
−2
−3

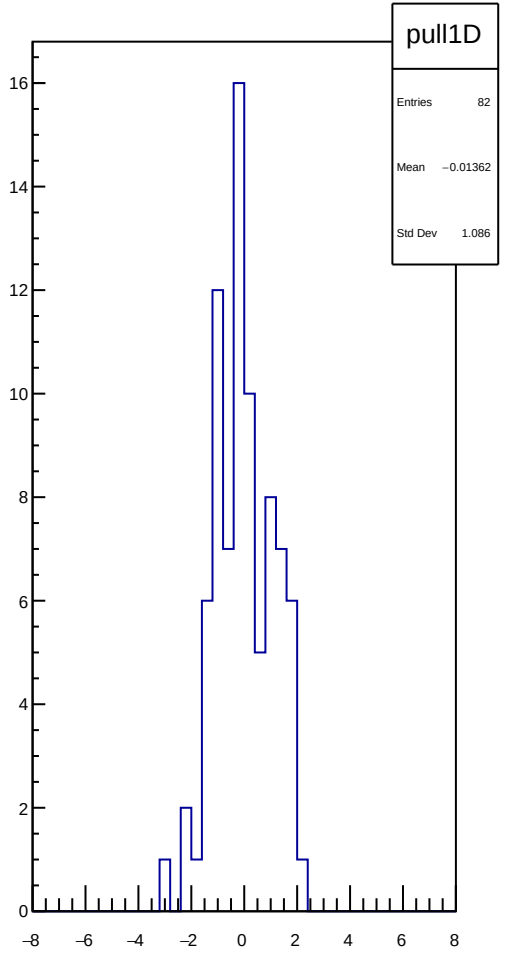

pull1D
Entries 82
Mean −0.01362
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_cor_correction_rms vs run
χ² / ndf 6875 / 81
p0 1.254e+04 ± 9.868
14500
14000
13500
13000
12500
12000
11500
11000


eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 96 / 81
p0 1337 ± 1992
pull
Entries 82
Mean 253.9
Std Dev 0
pull1D
Entries 82
Mean −0.003213
Std Dev 1.082


eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 723.8 / 81
p0 1793 ± 1.409
1900
1850
1800
1750
1700


asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.81 / 81
p0 2603 ± 1.396e+04
400
200
0
−200
−400
−600
pull
Entries 82
Mean 43.63
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean −0.01362
Std Dev 1.086
16
14
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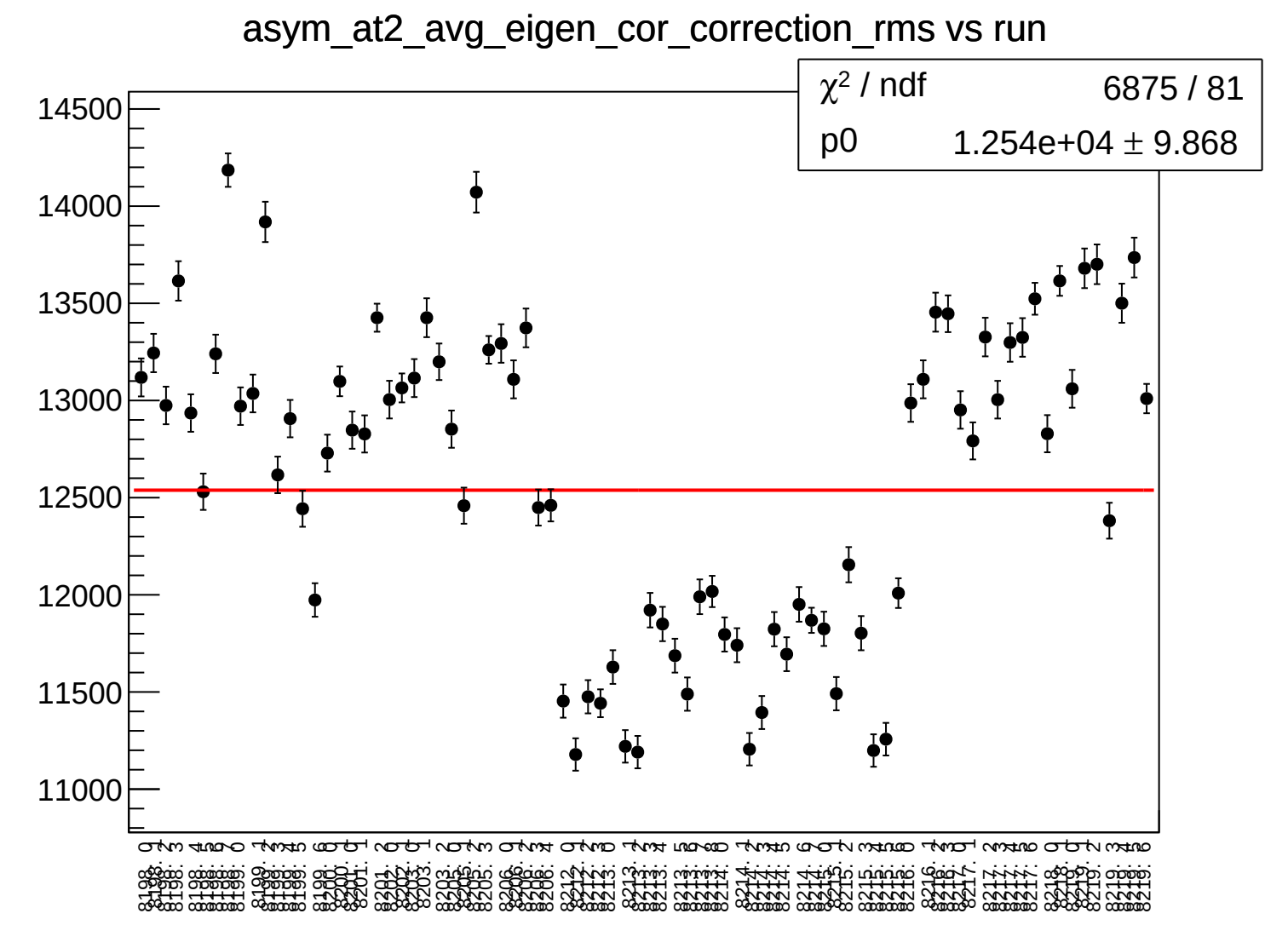
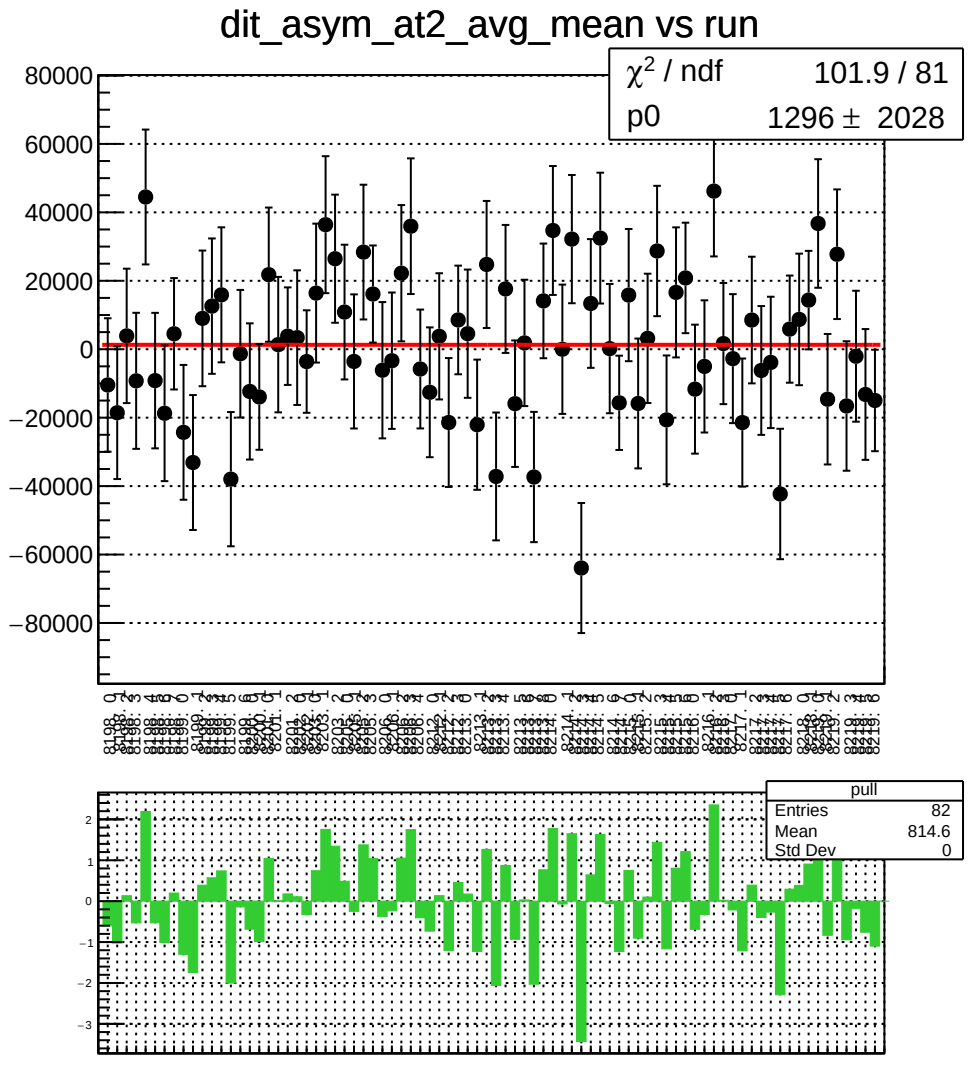
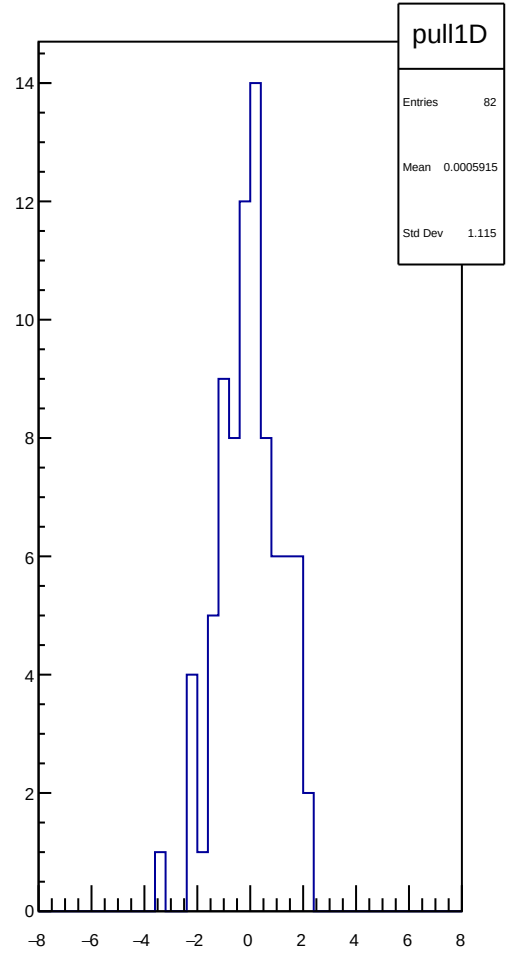
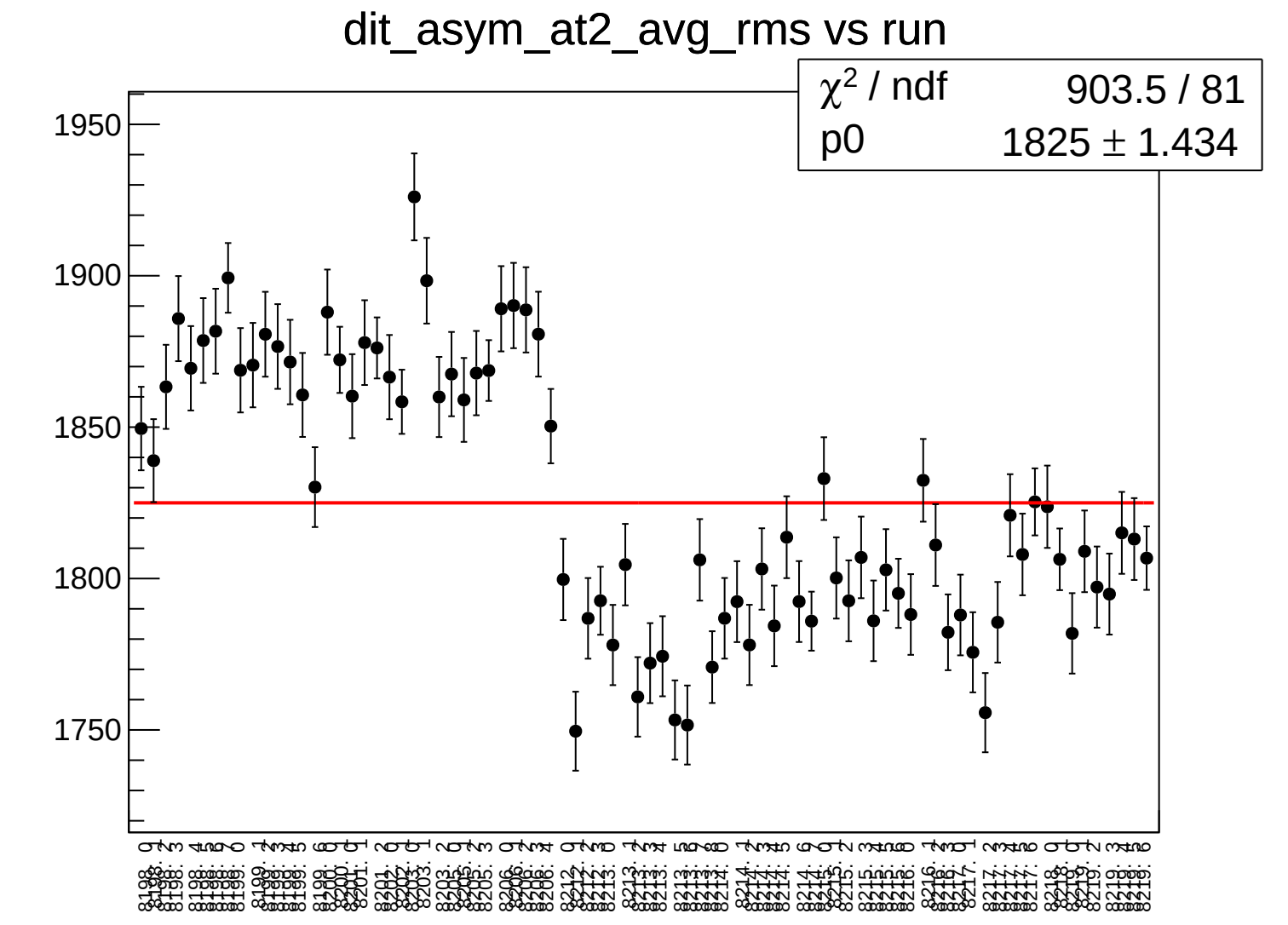
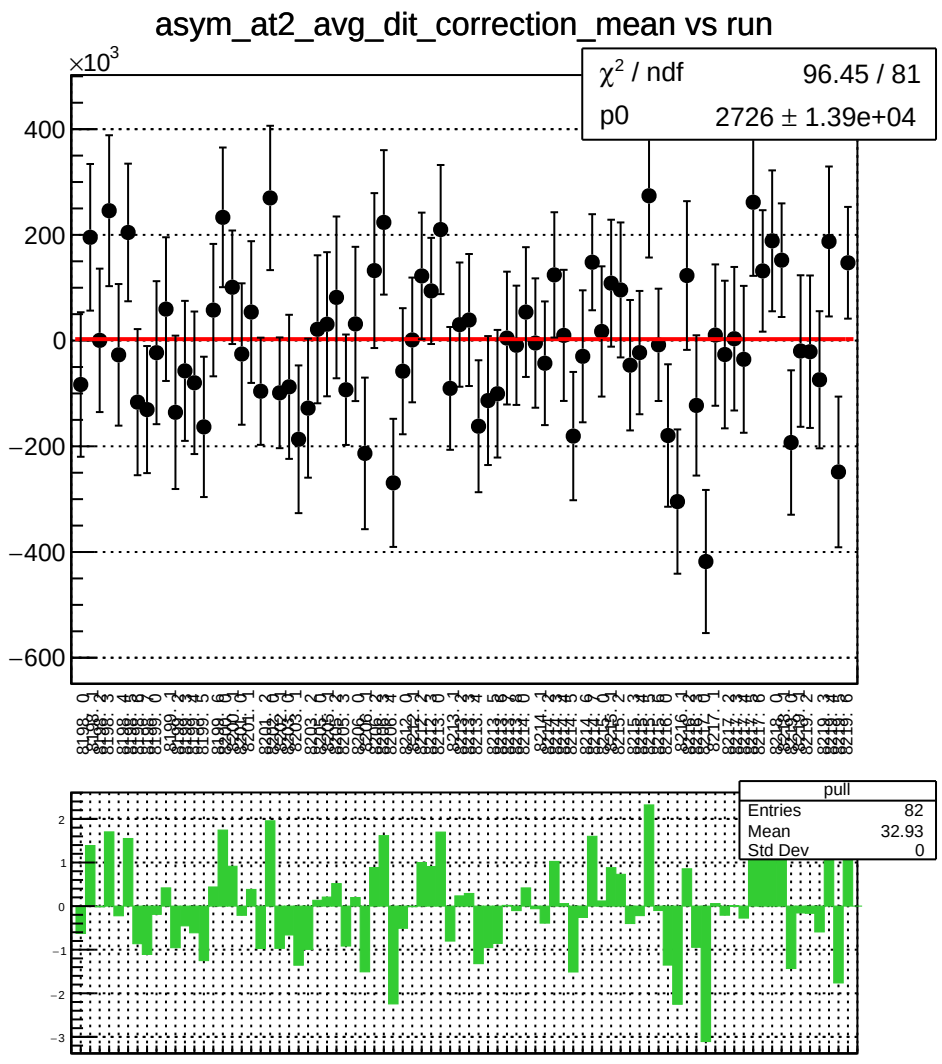
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

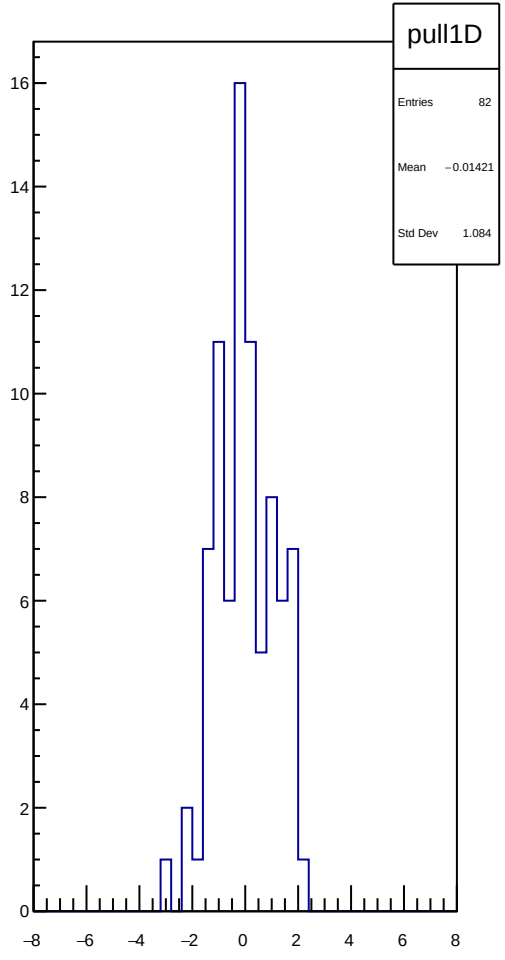

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6875 / 81
p0 1.254e+04 ± 9.868
14500
14000
13500
13000
12500
12000
11500
11000

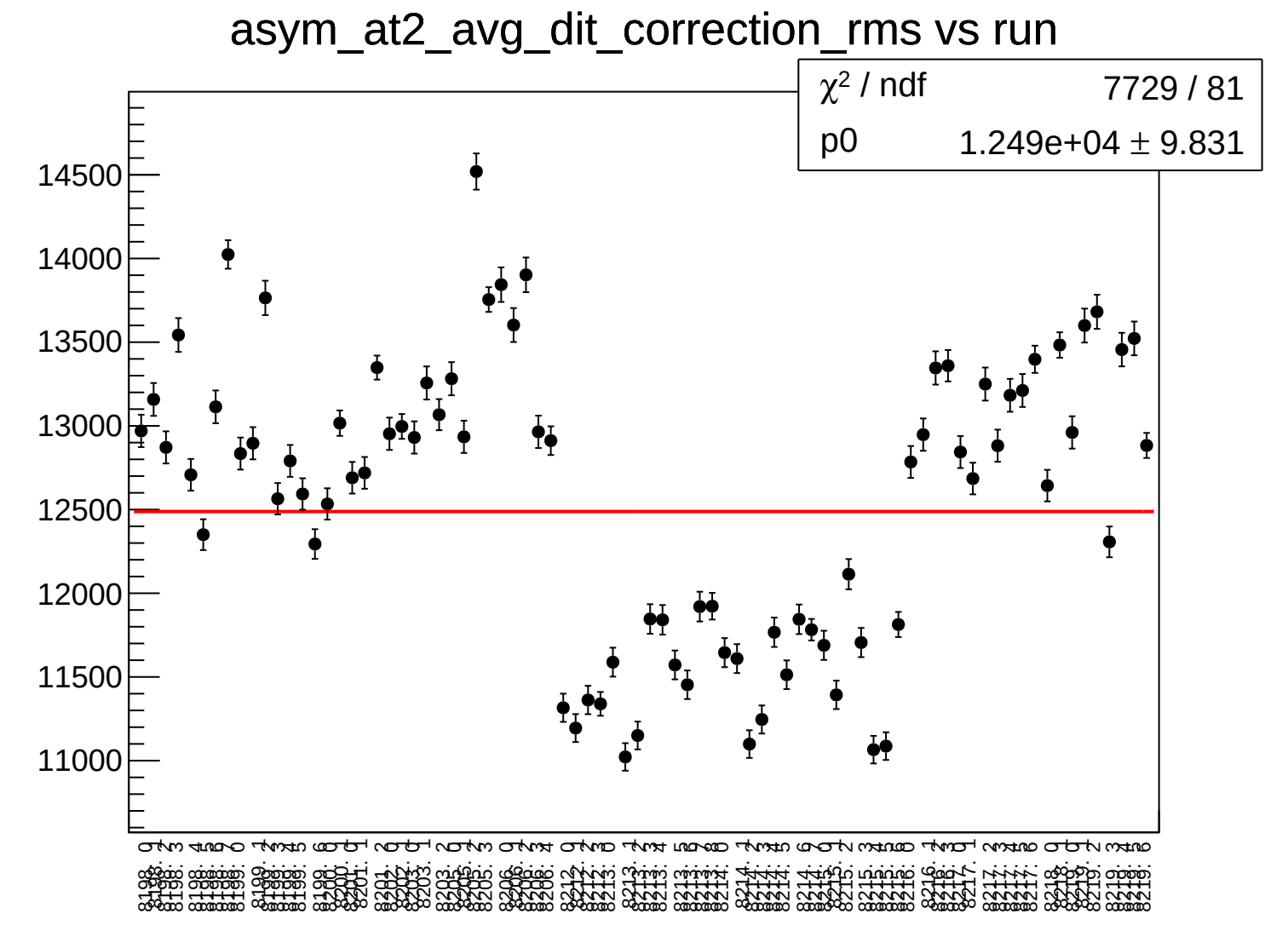

dit_asym_at2_avg_mean vs run
χ² / ndf 101.9 / 81
p0 1296 ± 2028
pull
Entries 82
Mean 814.6
Std Dev 0

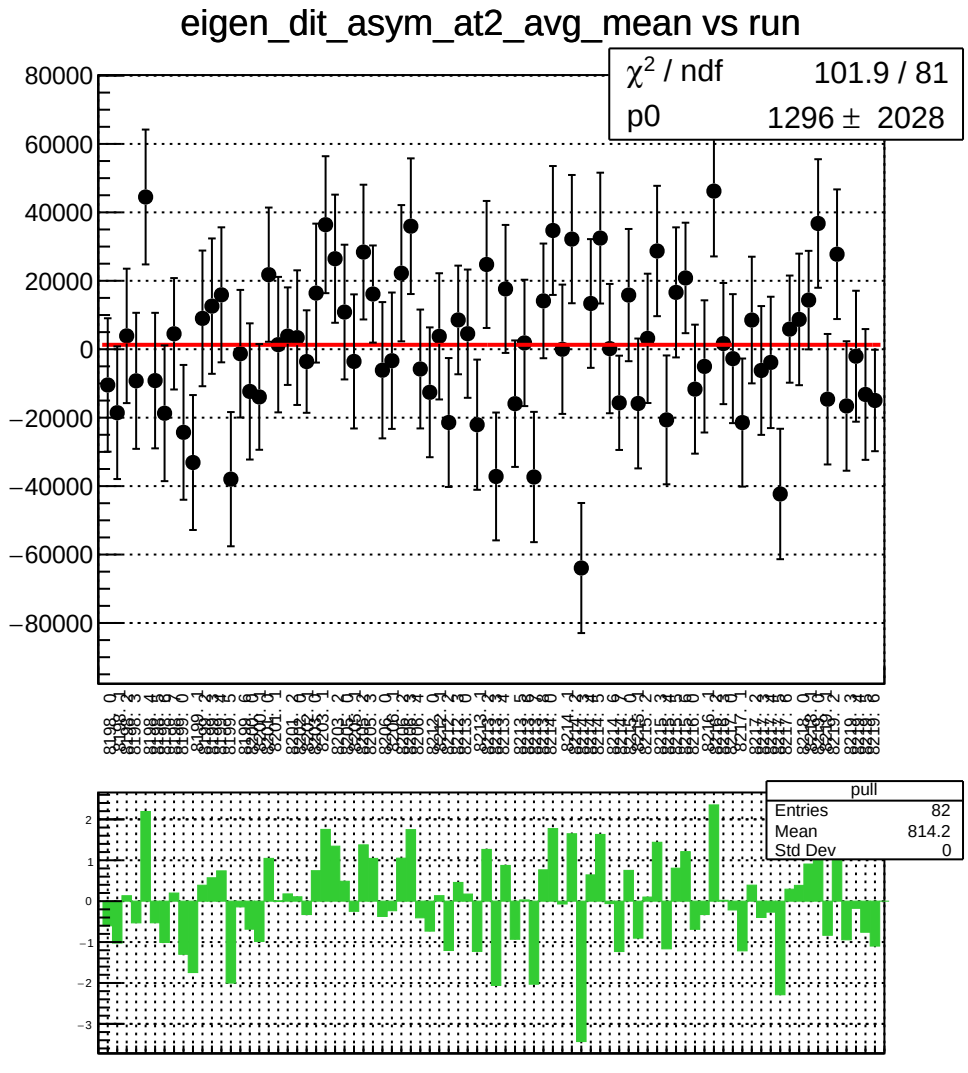

pull1D
Entries 82
Mean 0.0005915
Std Dev 1.115

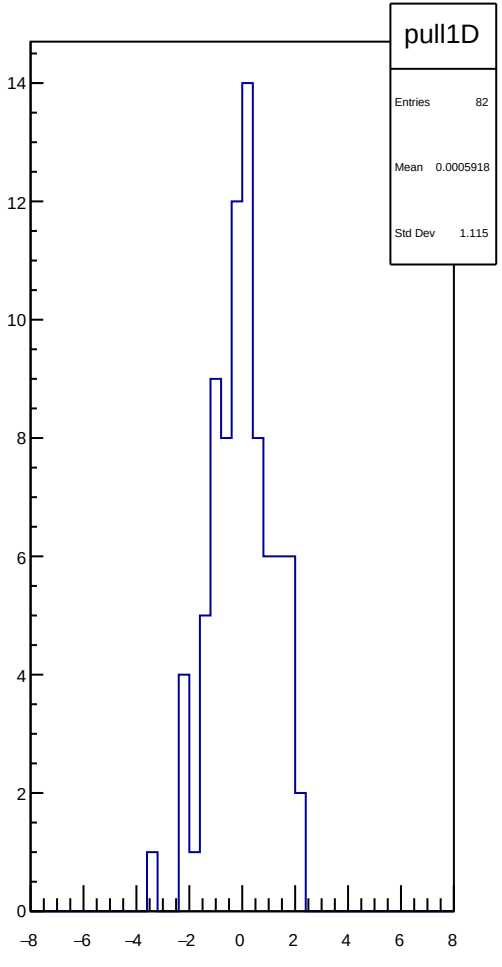

dit_asym_at2_avg_rms vs run
χ² / ndf 903.5 / 81
p0 1825 ± 1.434
1950
1900
1850
1800
1750

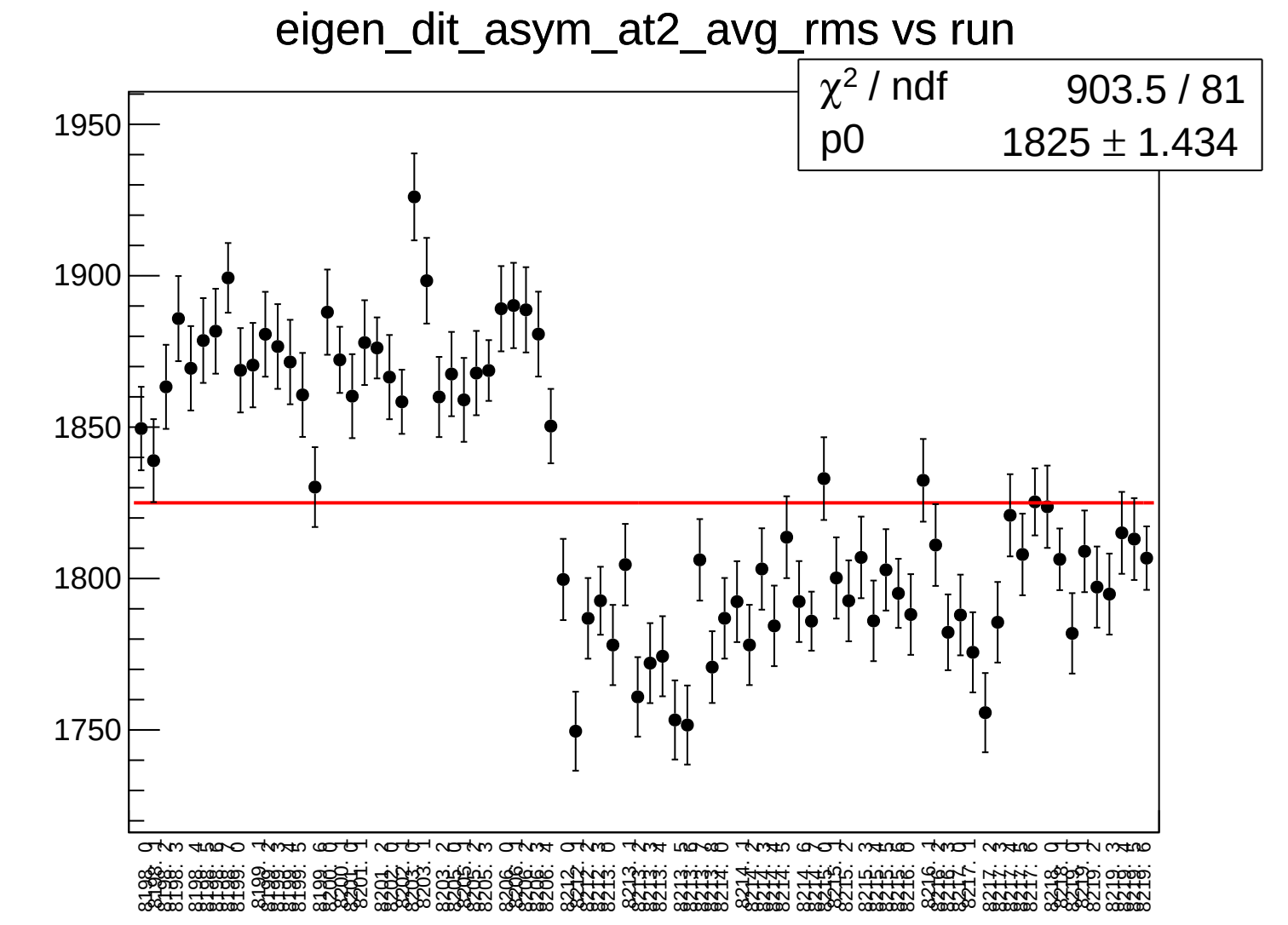

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.45 / 81
p0 2726 ± 1.39e+04
400
200
0
−200
−400
−600
pull
Entries 82
Mean 32.93
Std Dev 0
2
1
0
−1
−2
−3

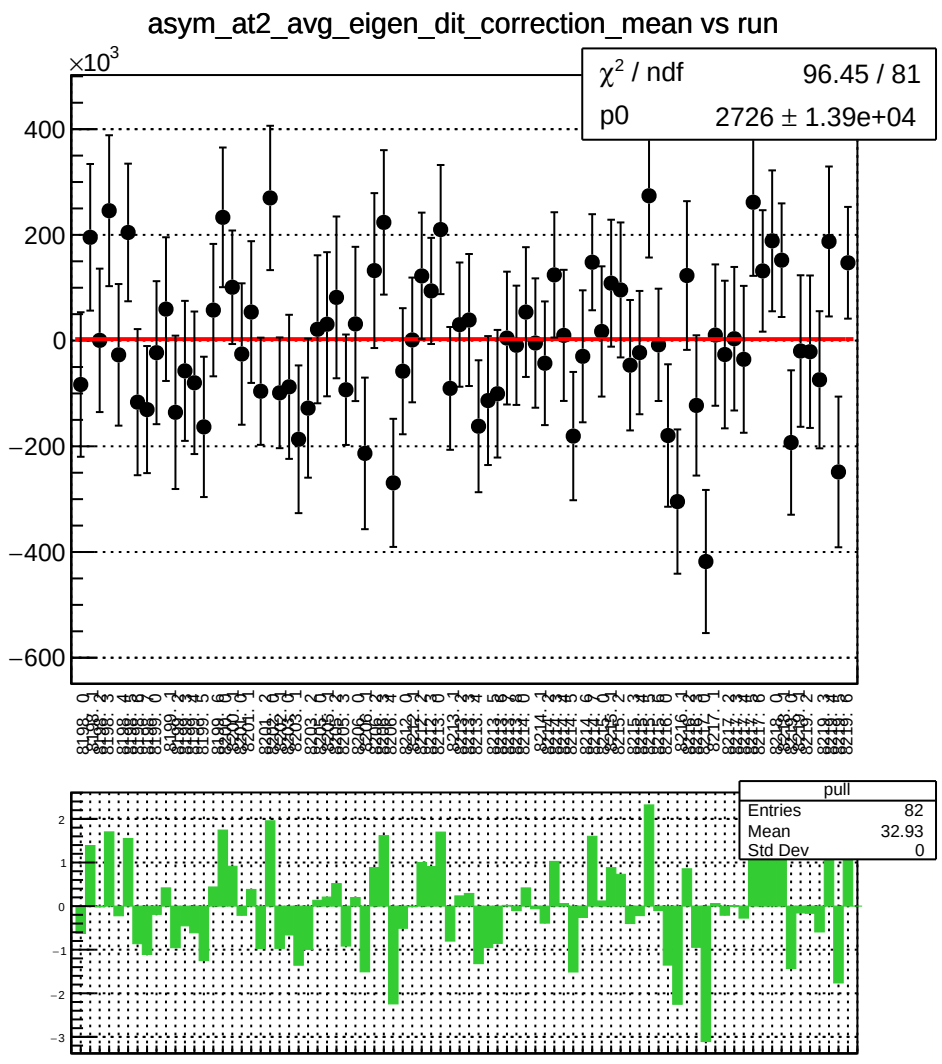

pull1D
Entries 82
Mean −0.01421
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

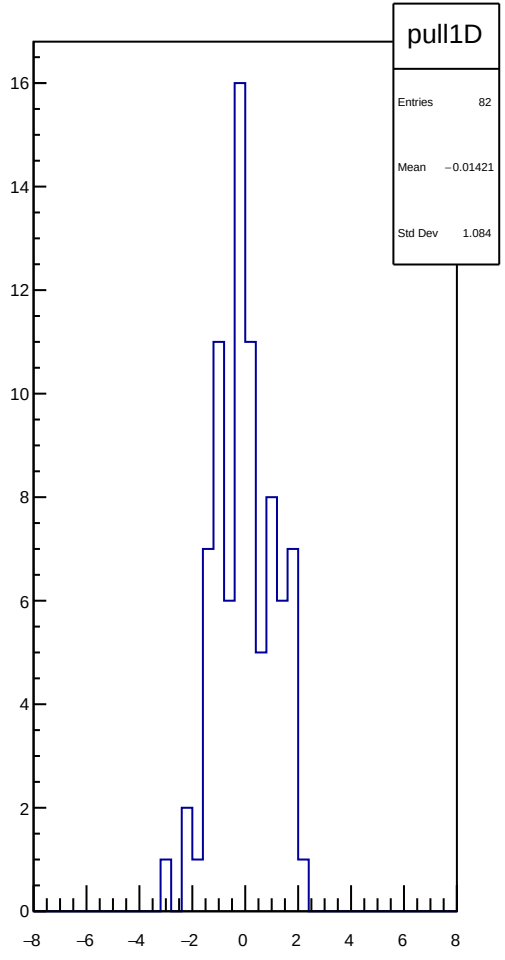

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 7729 / 81
p0 1.249e+04 ± 9.831
14500
14000
13500
13000
12500
12000
11500
11000

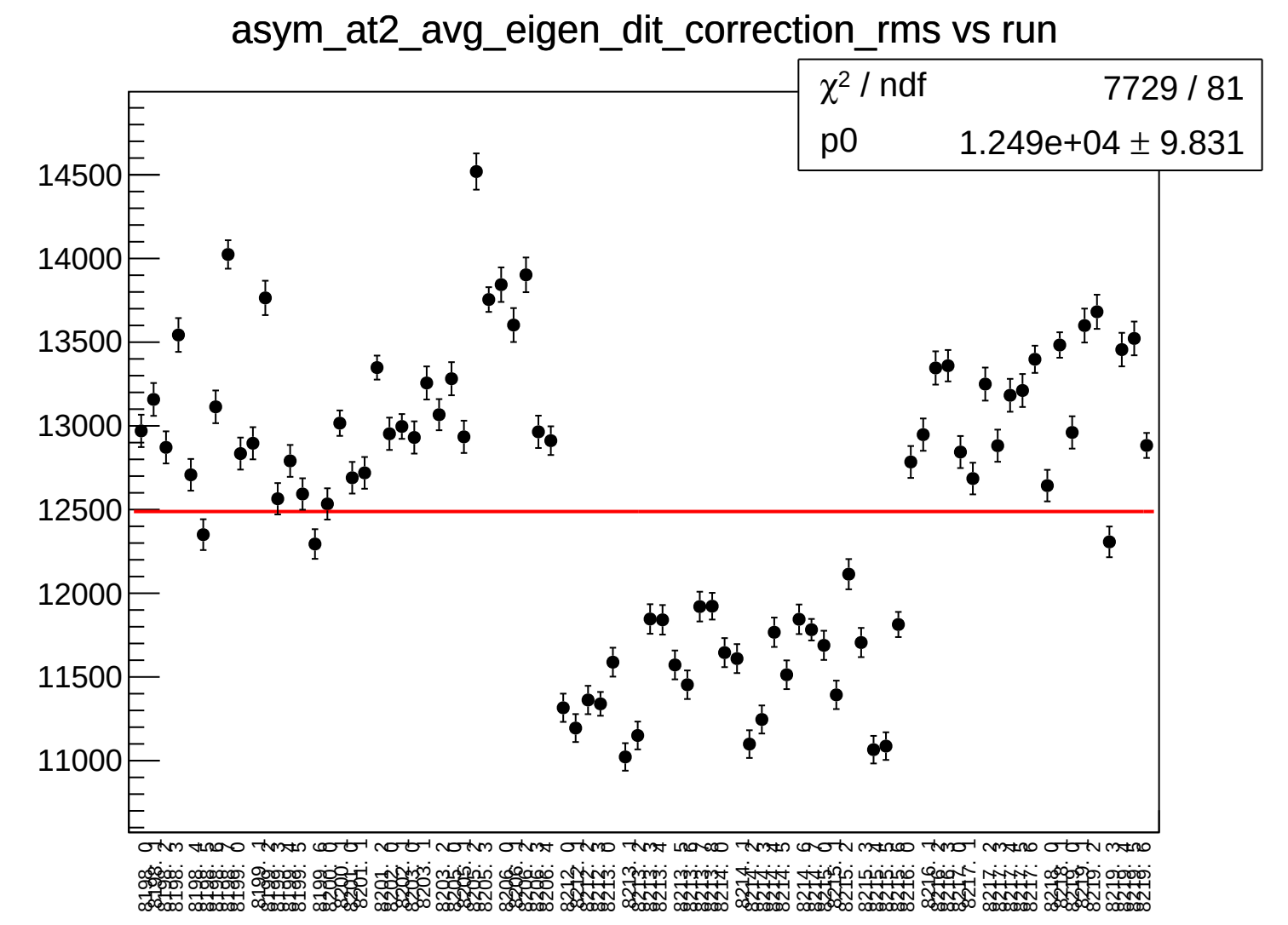

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 101.9 / 81
p0 1296 ± 2028
pull
Entries 82
Mean 814.2
Std Dev 0

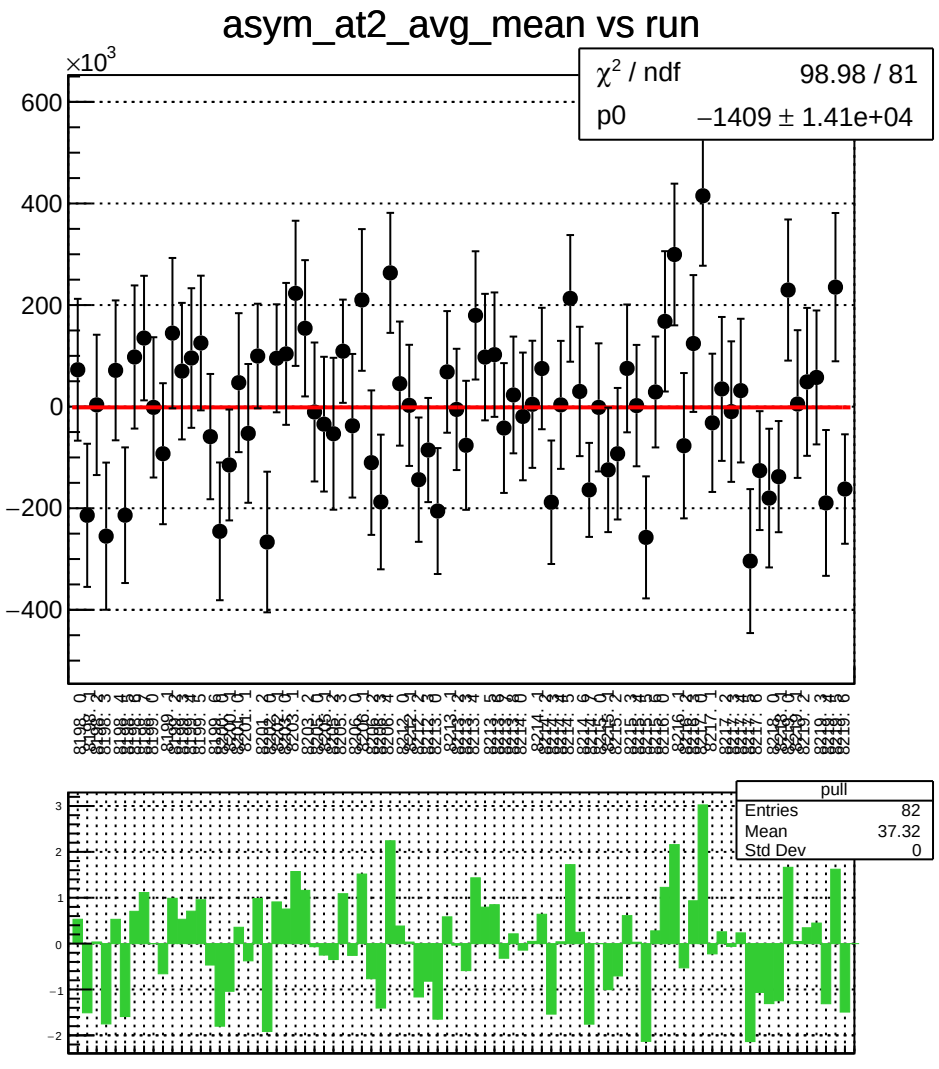

pull1D
Entries 82
Mean 0.0005918
Std Dev 1.115

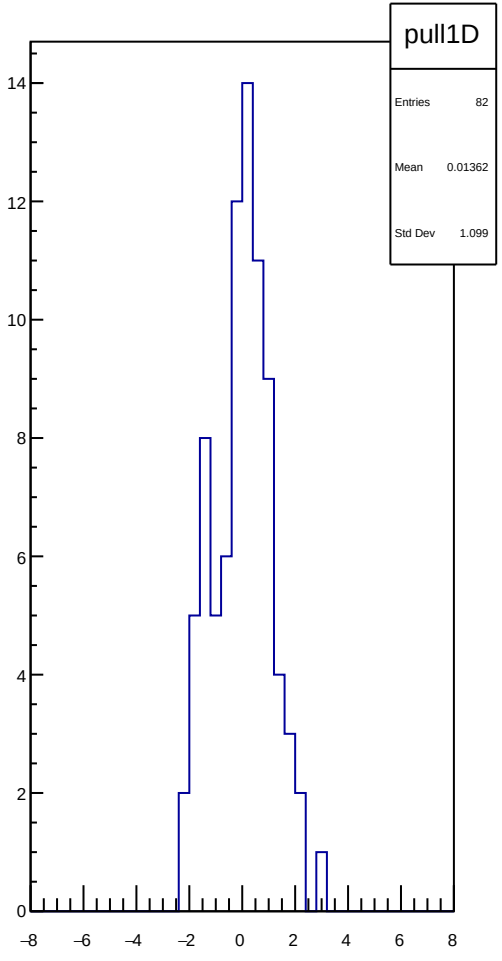

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 903.5 / 81
p0 1825 ± 1.434
1950
1900
1850
1800
1750

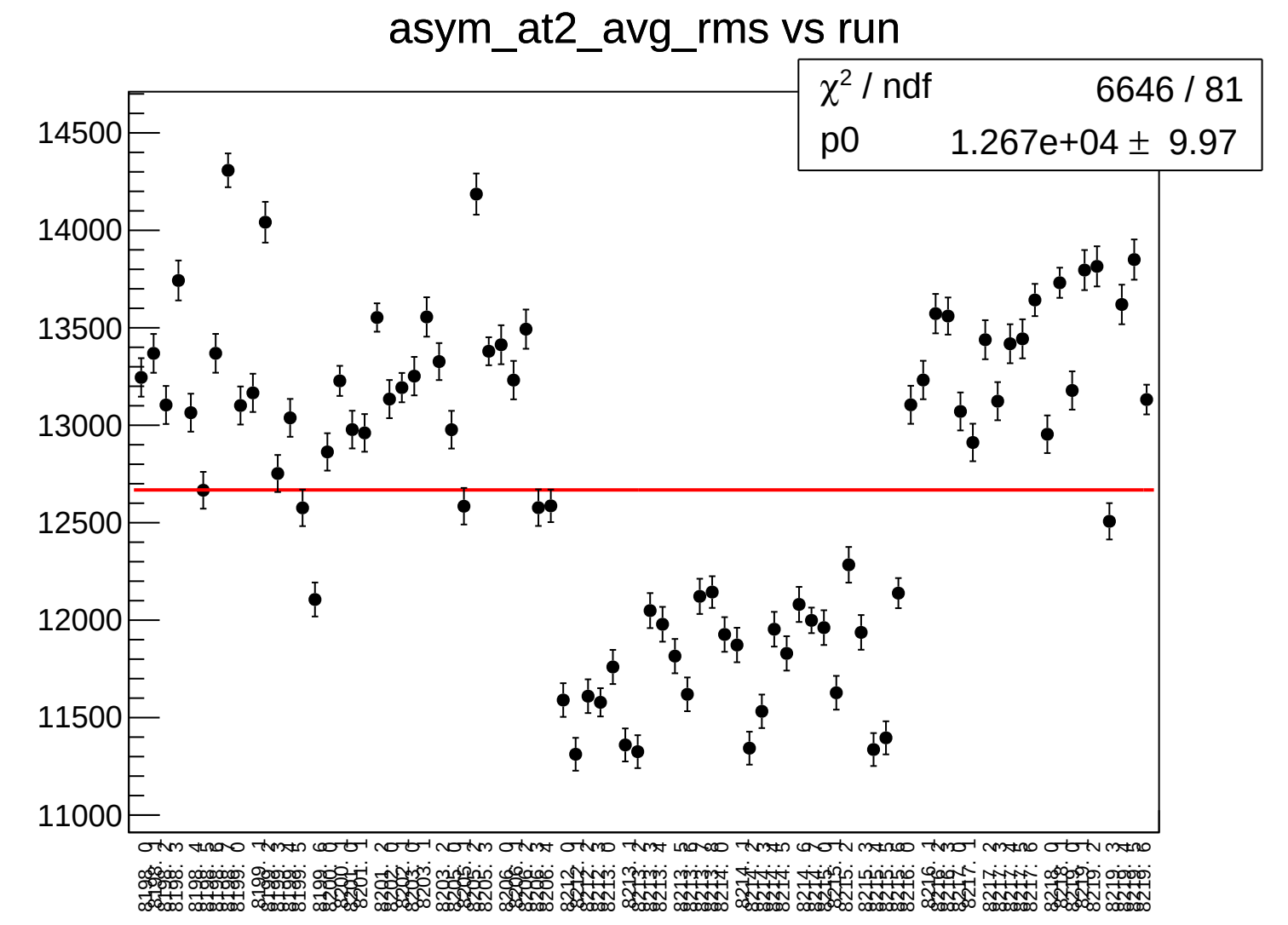

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.45 / 81
p0 2726 ± 1.39e+04
400
200
0
−200
−400
−600
pull
Entries 82
Mean 32.93
Std Dev 0
2
1
0
−1
−2
−3

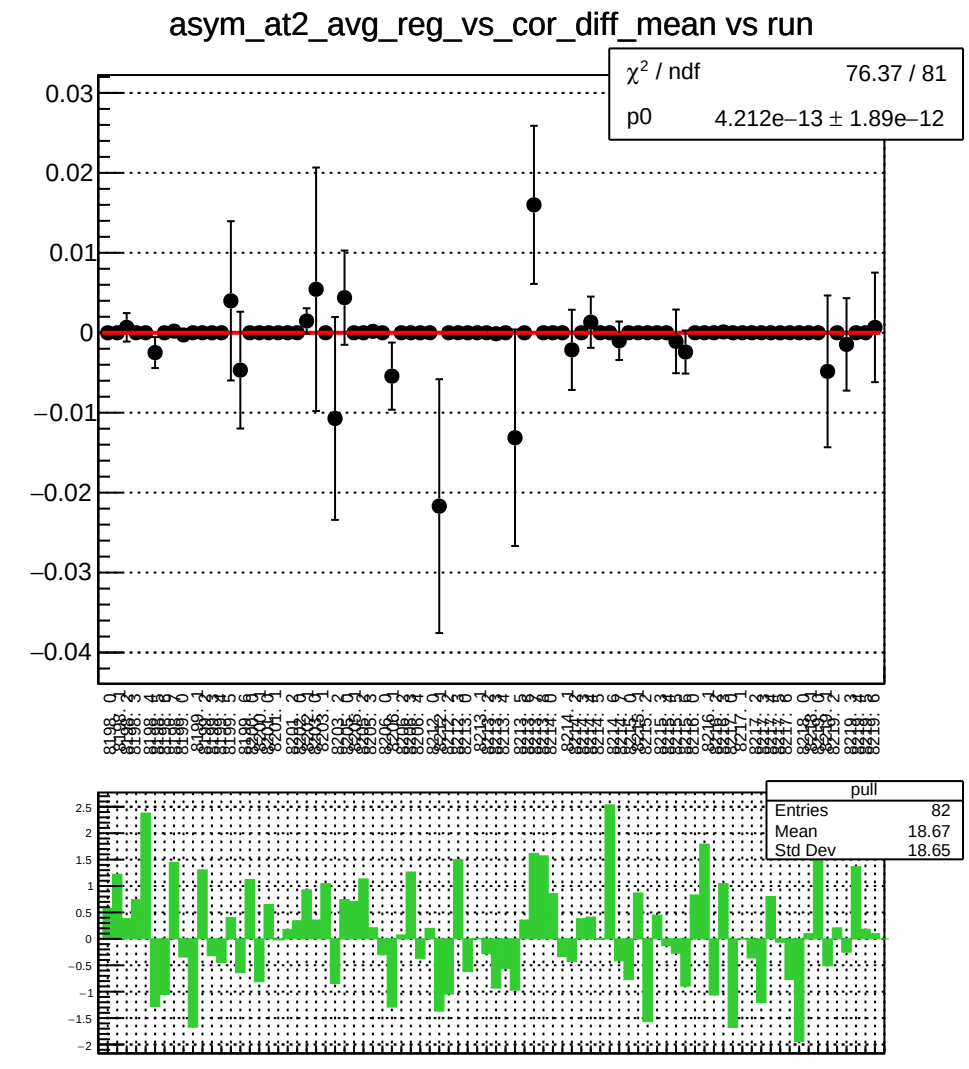

pull1D
Entries 82
Mean −0.01421
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

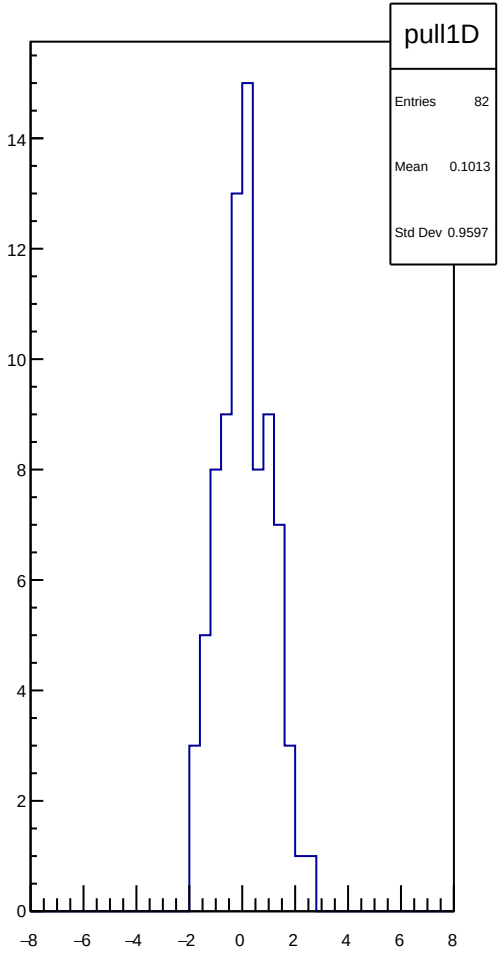

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7729 / 81
p0 1.249e+04 ± 9.831
14500
14000
13500
13000
12500
12000
11500
11000

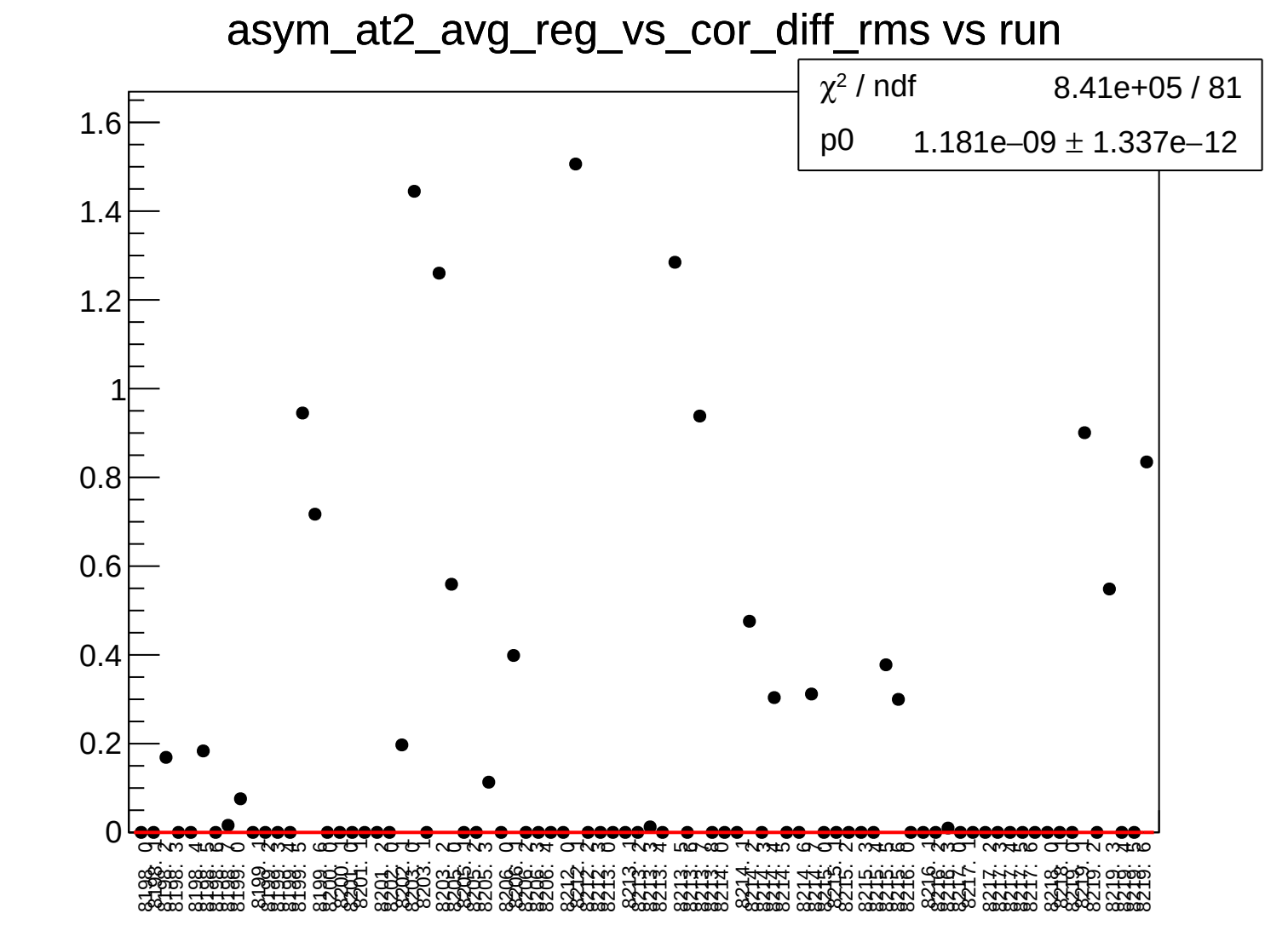

asym_at2_avg_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 98.98 / 81
p0 −1409 ± 1.41e+04
pull
Entries 82
Mean 37.32
Std Dev 0
3
2
1
0
−1
−2

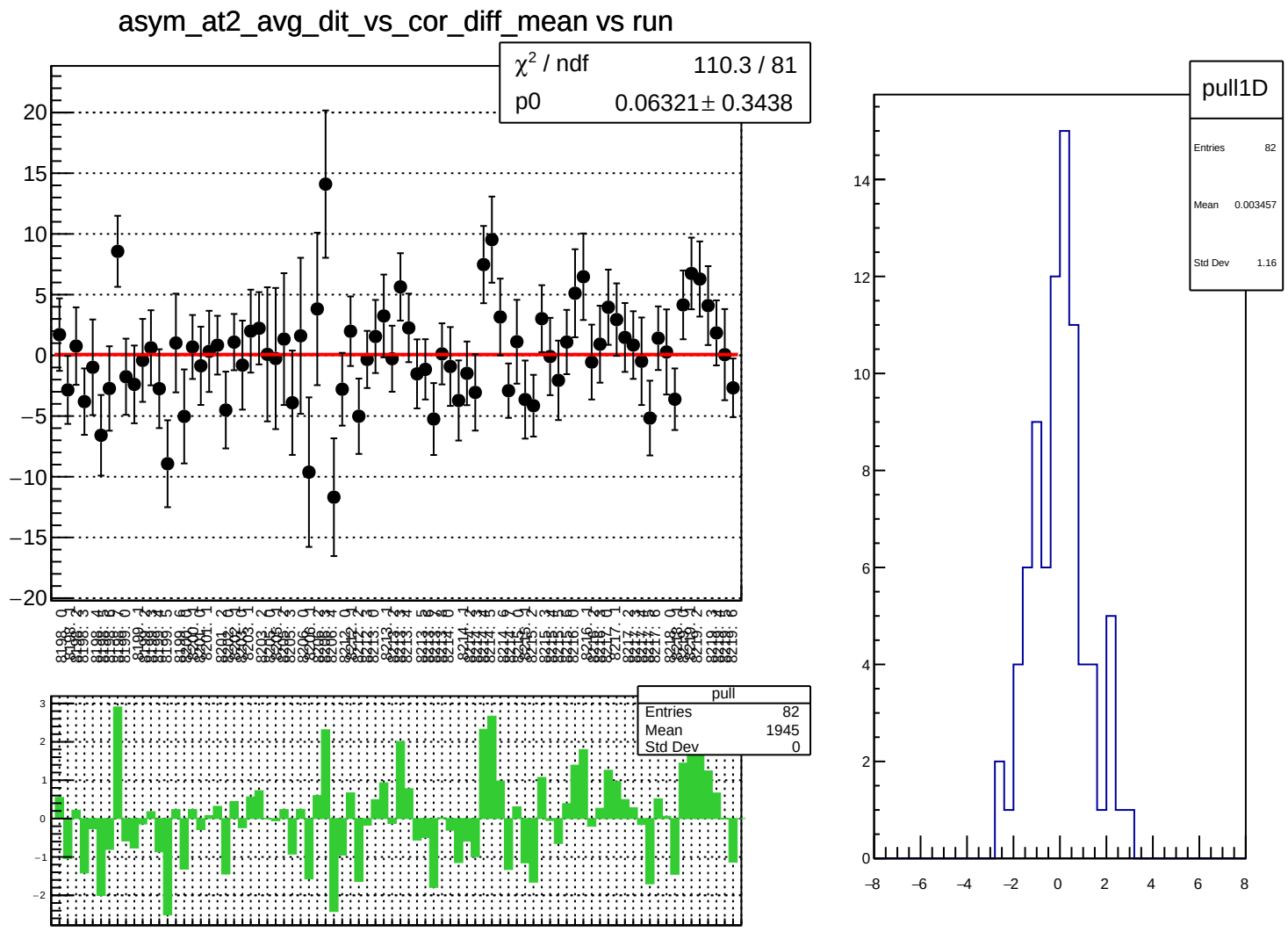

pull1D
Entries 82
Mean 0.01362
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

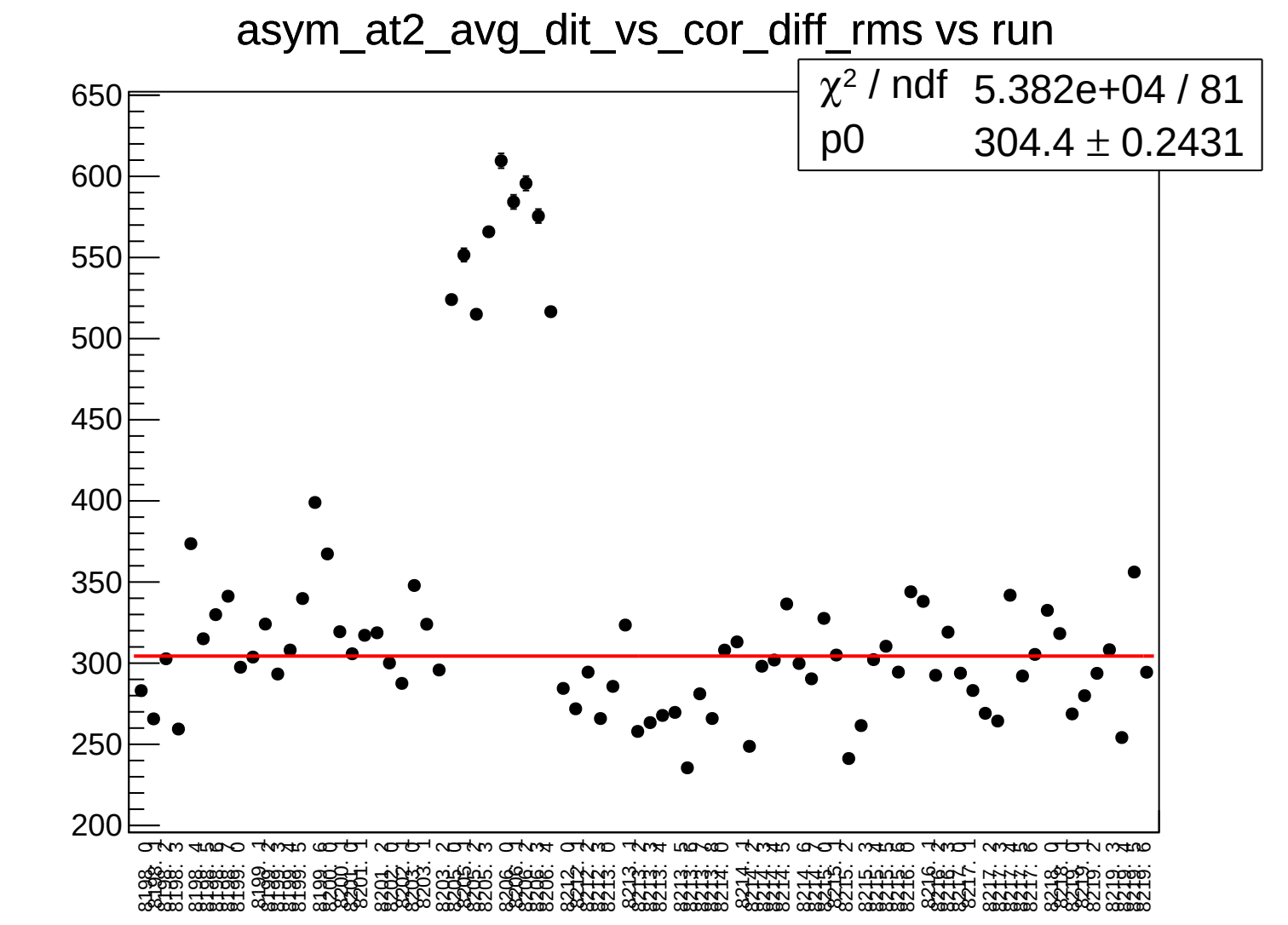

asym_at2_avg_rms vs run
χ² / ndf 6646 / 81
p0 1.267e+04 ± 9.97
14500
14000
13500
13000
12500
12000
11500
11000

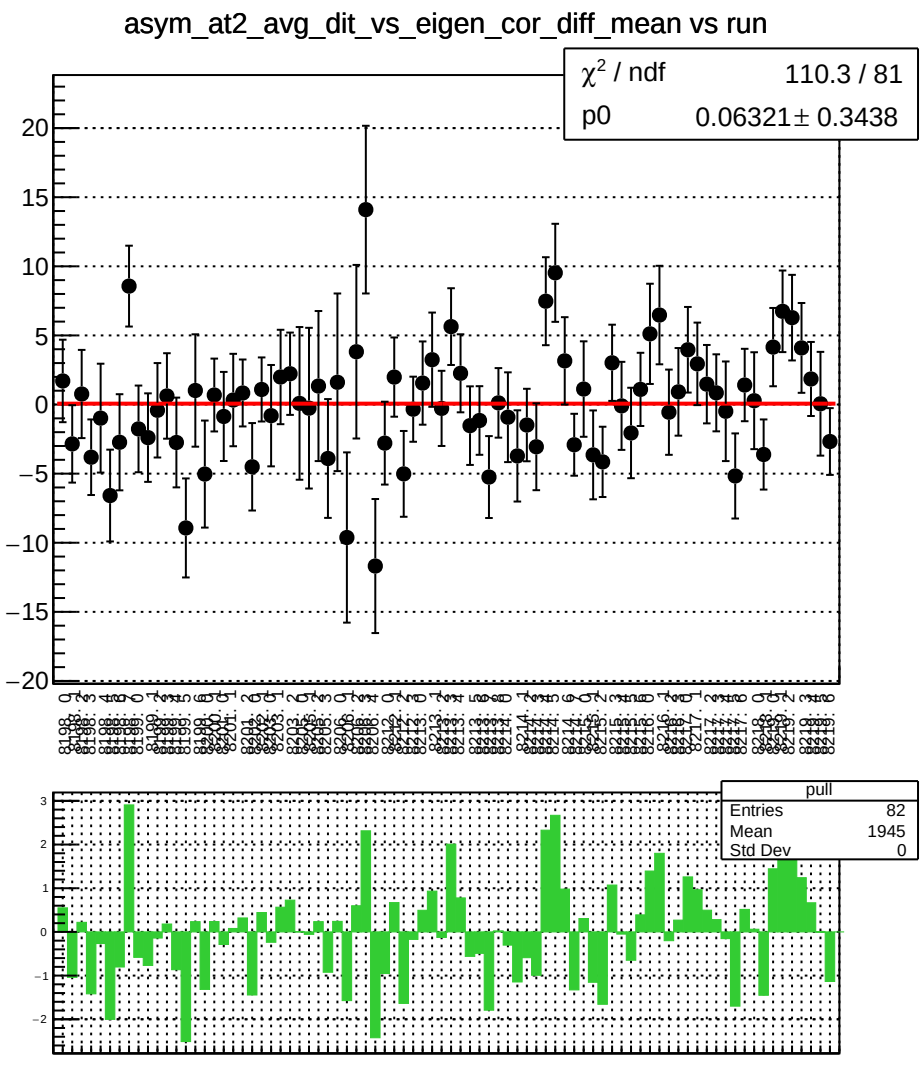

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.37 / 81
p0 4.212e−13 ± 1.89e−12
pull
Entries 82
Mean 18.67
Std Dev 18.65

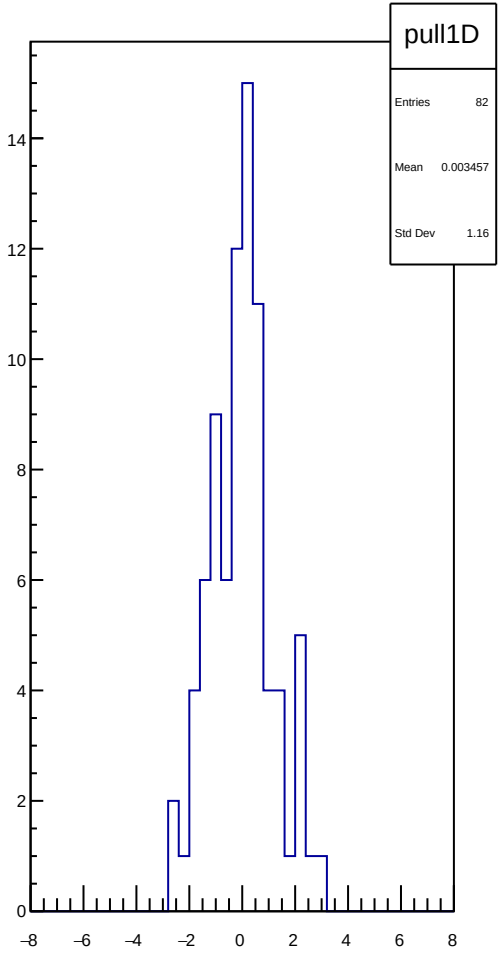

pull1D
Entries 82
Mean 0.1013
Std Dev 0.9597

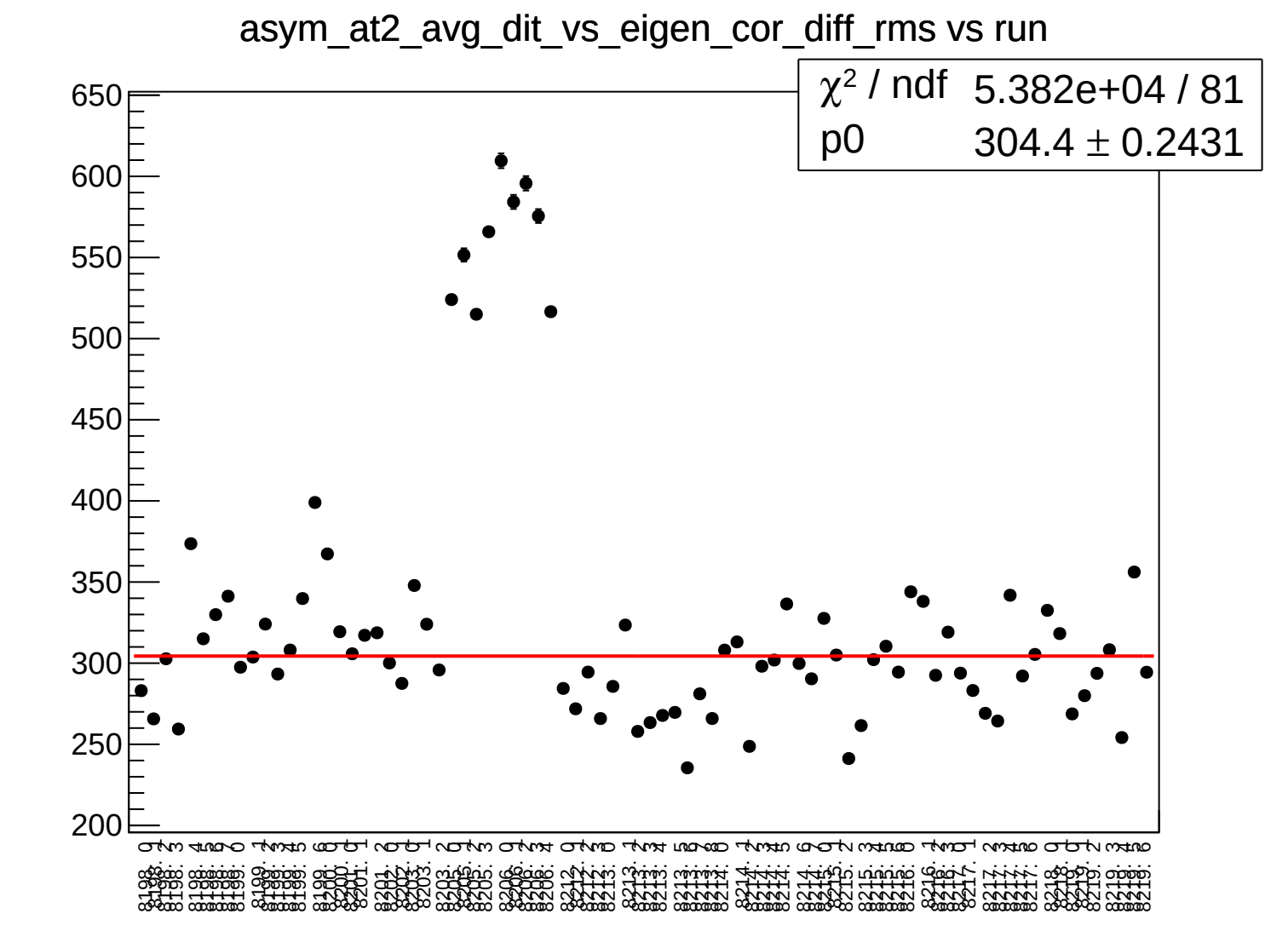

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.41e+05 / 81
p0 1.181e−09 ± 1.337e−12
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

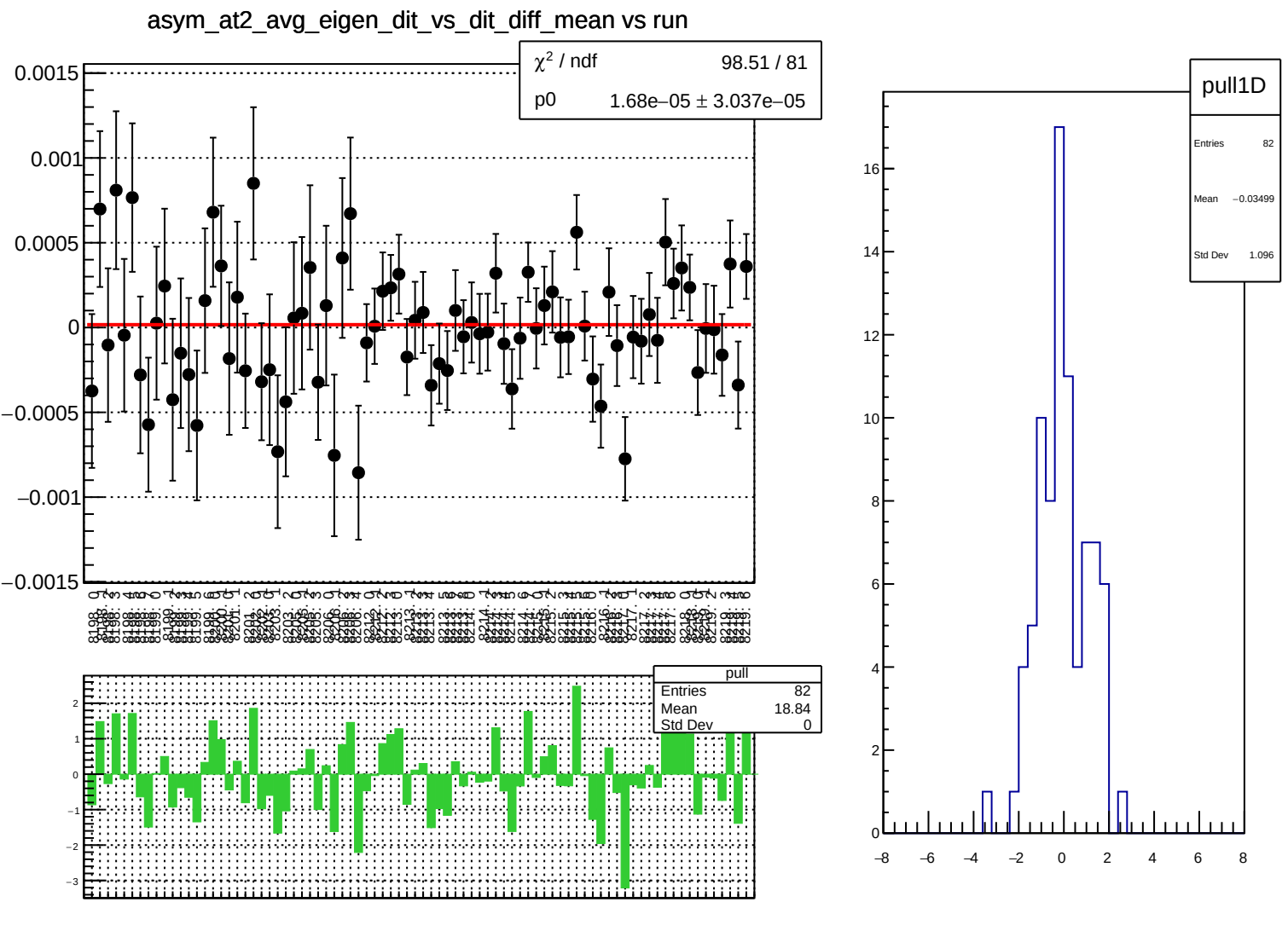

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 110.3 / 81
p0 0.06321 ± 0.3438
pull
Entries 82
Mean 1945
Std Dev 0
pull1D
Entries 82
Mean 0.003457
Std Dev 1.16

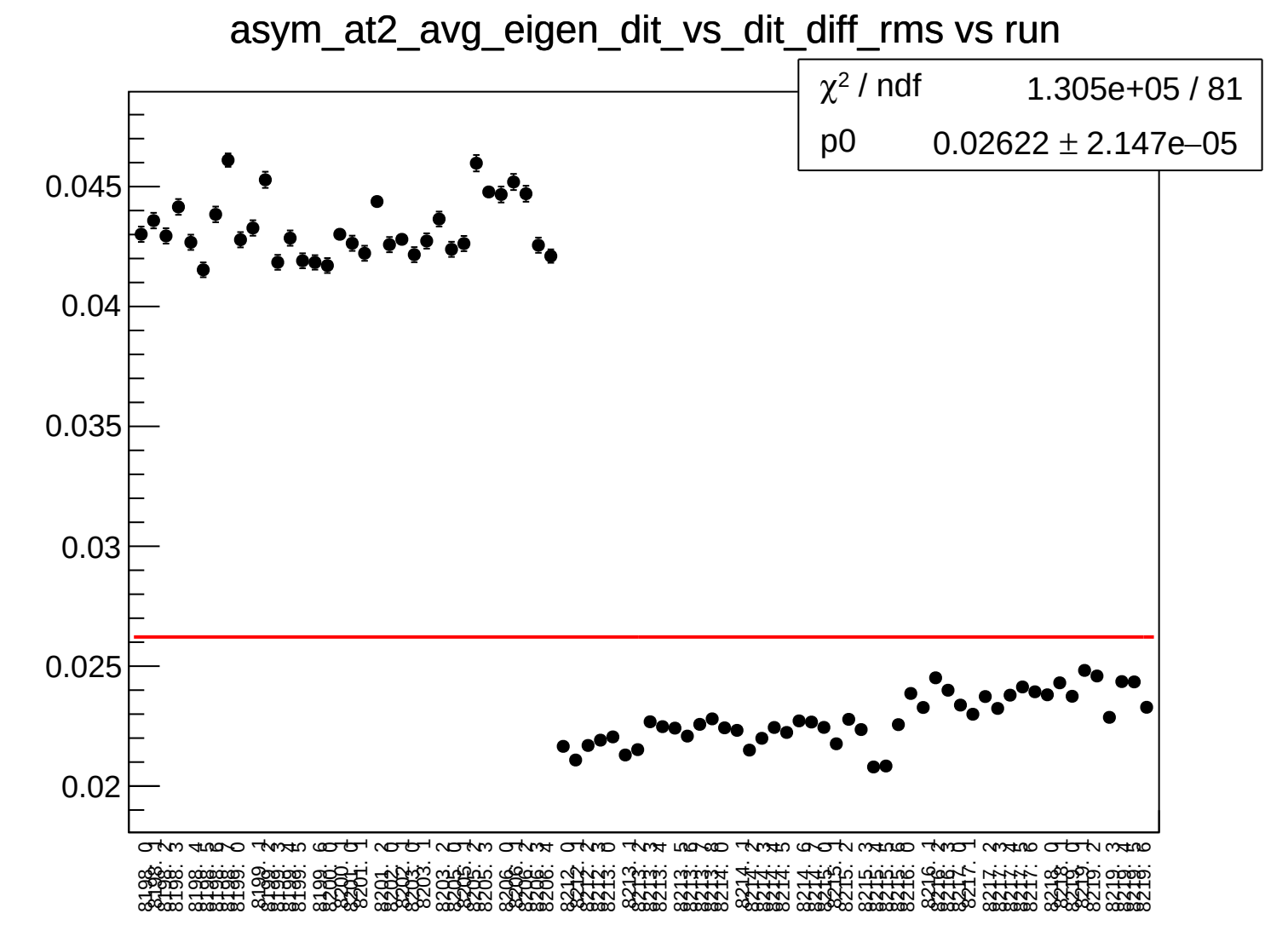

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.382e+04 / 81
p0 304.4 ± 0.2431
650
600
550
500
450
400
350
300
250
200

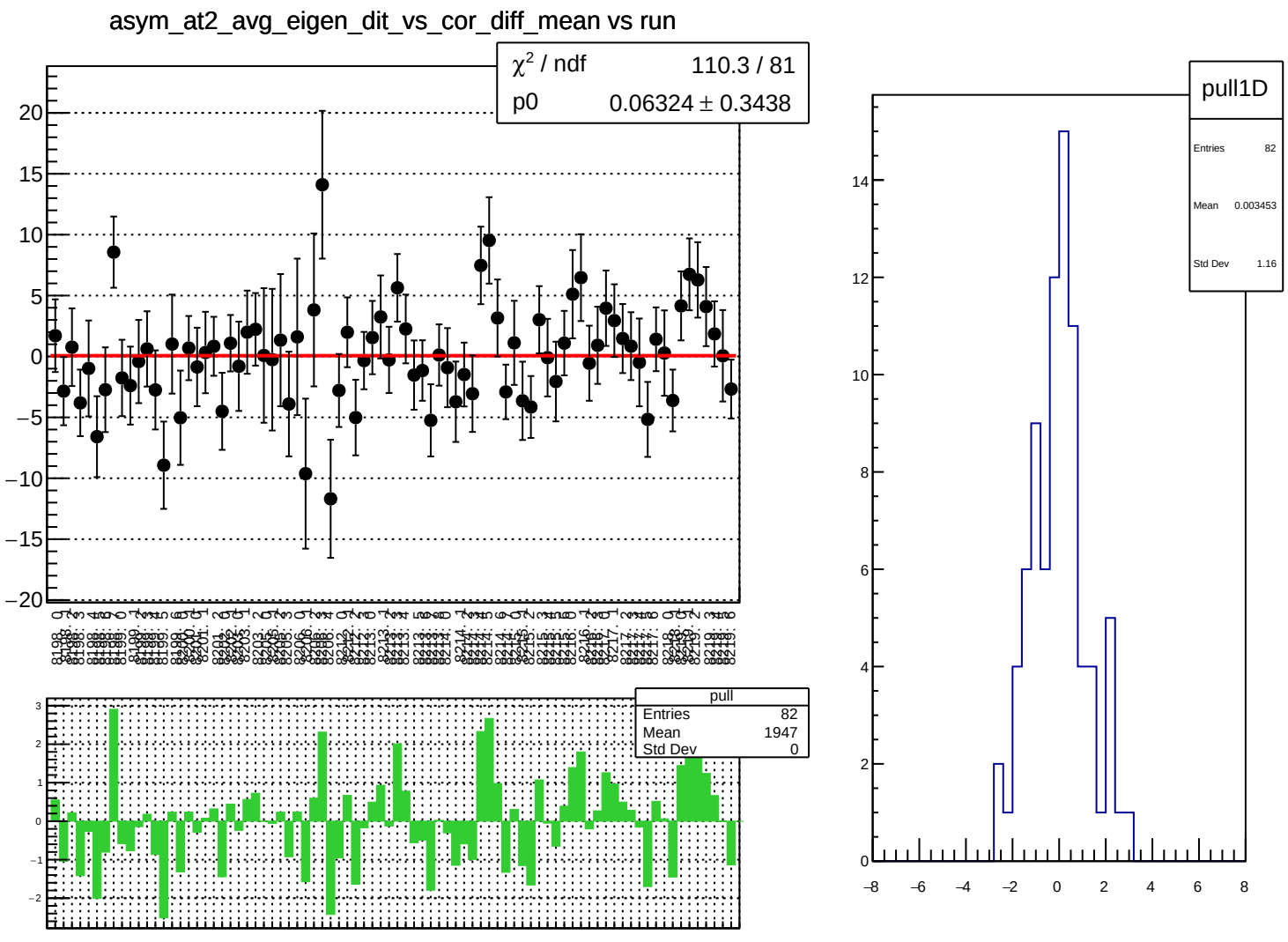

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.3 / 81
p0 0.06321 ± 0.3438
pull
Entries 82
Mean 1945
Std Dev 0

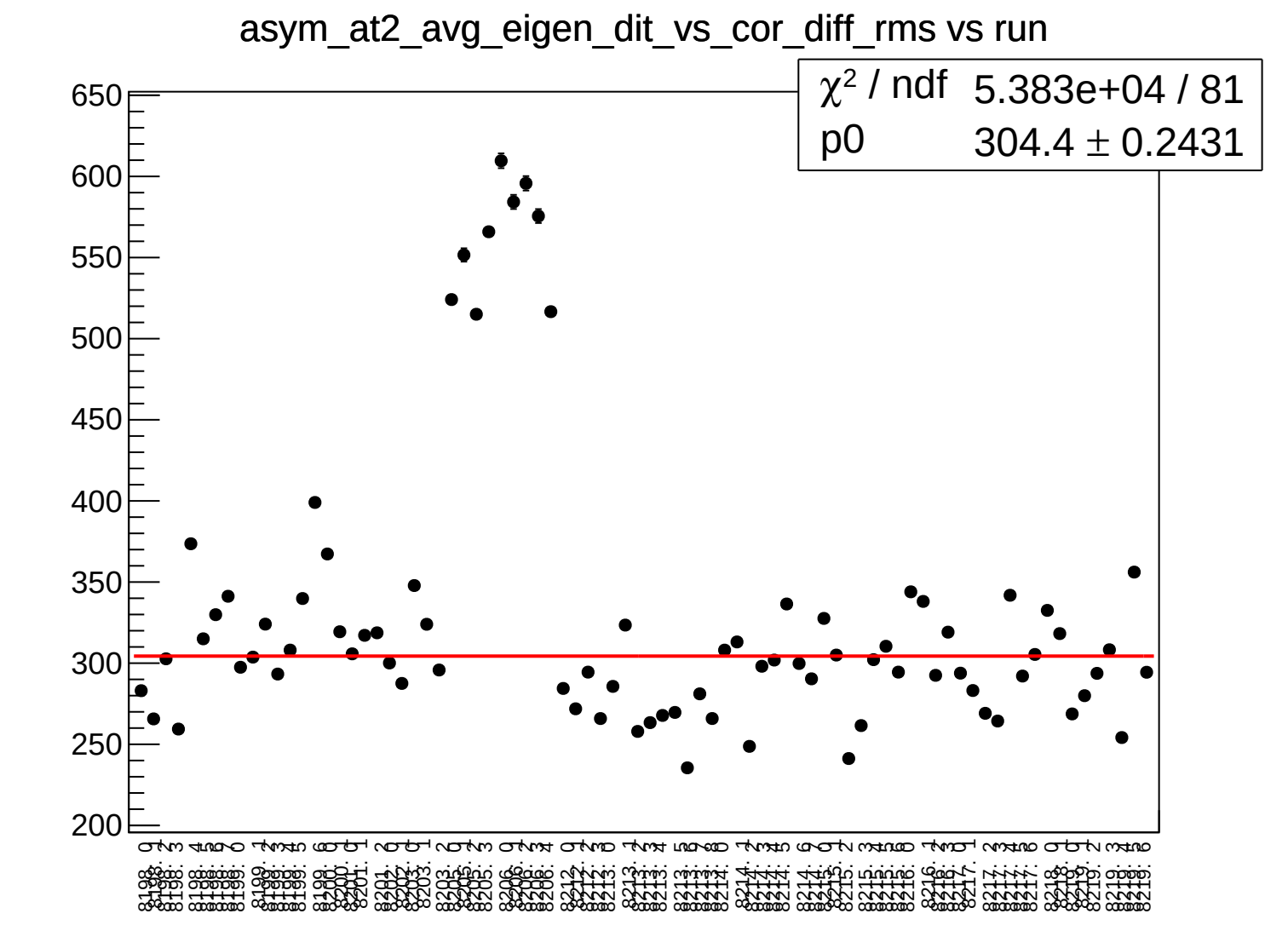

pull1D
Entries 82
Mean 0.003457
Std Dev 1.16

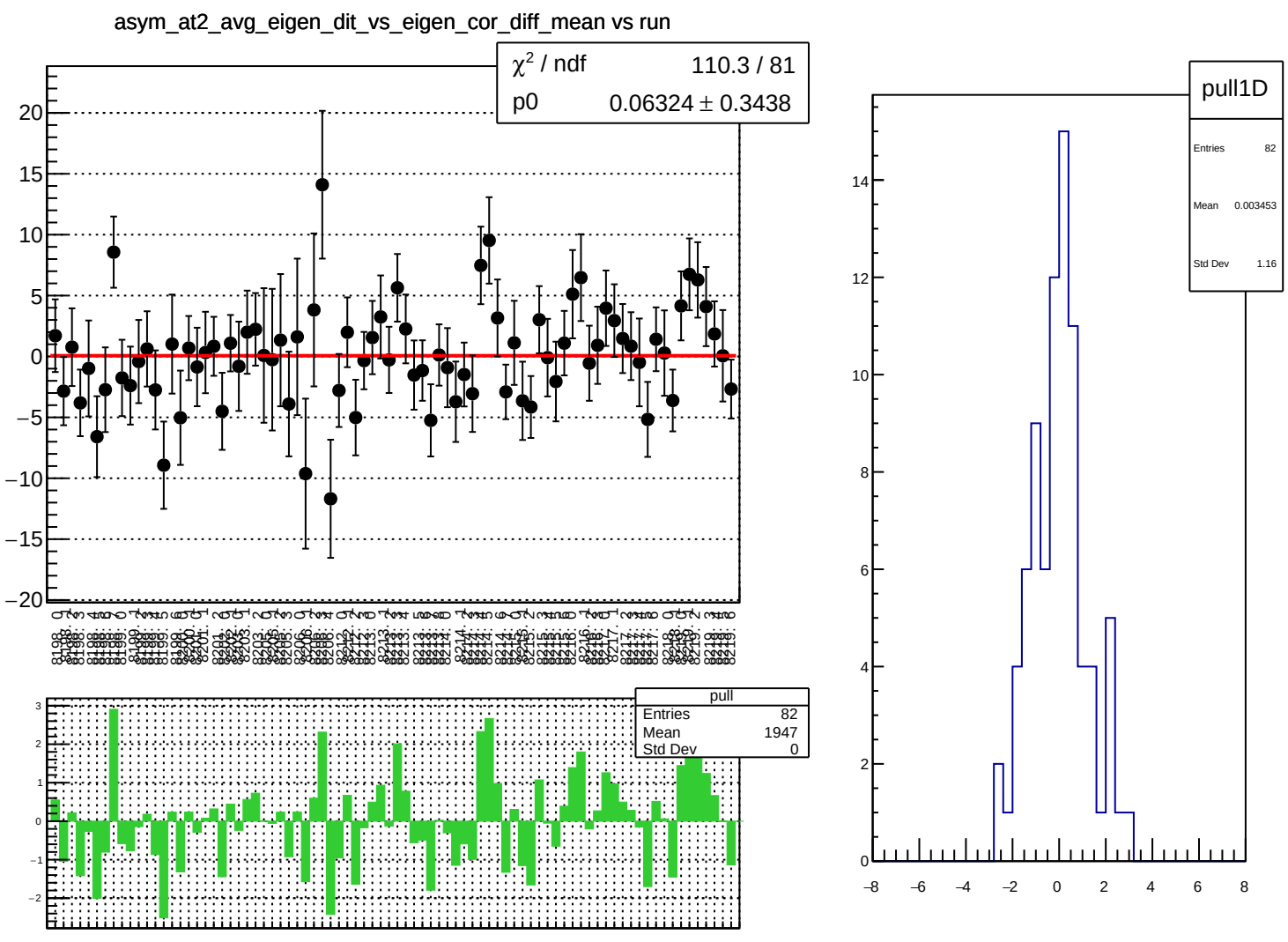

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.382e+04 / 81
p0 304.4 ± 0.2431
650
600
550
500
450
400
350
300
250
200

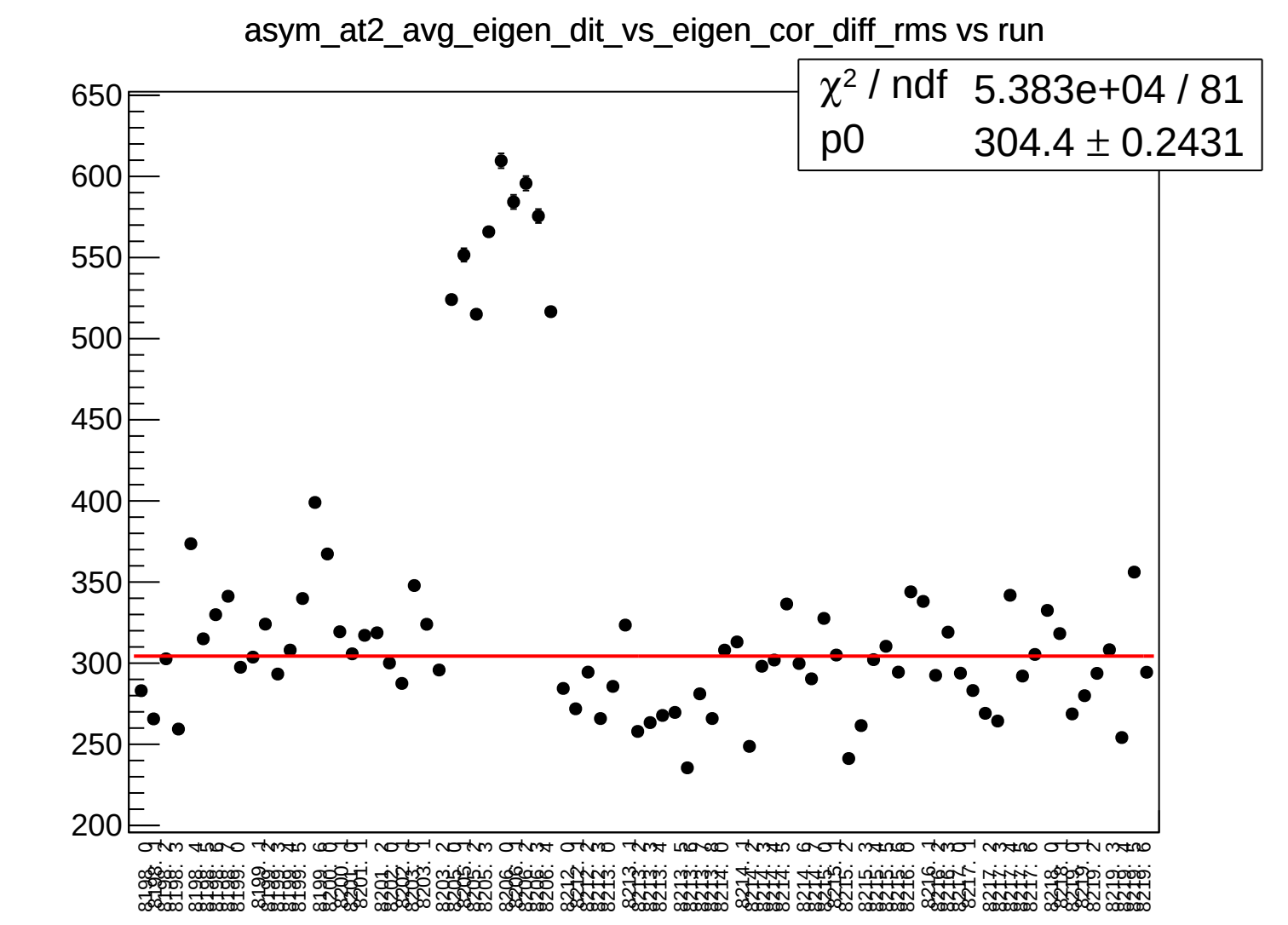

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 98.51 / 81
p0 1.68e−05 ± 3.037e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean 18.84
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.03499
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

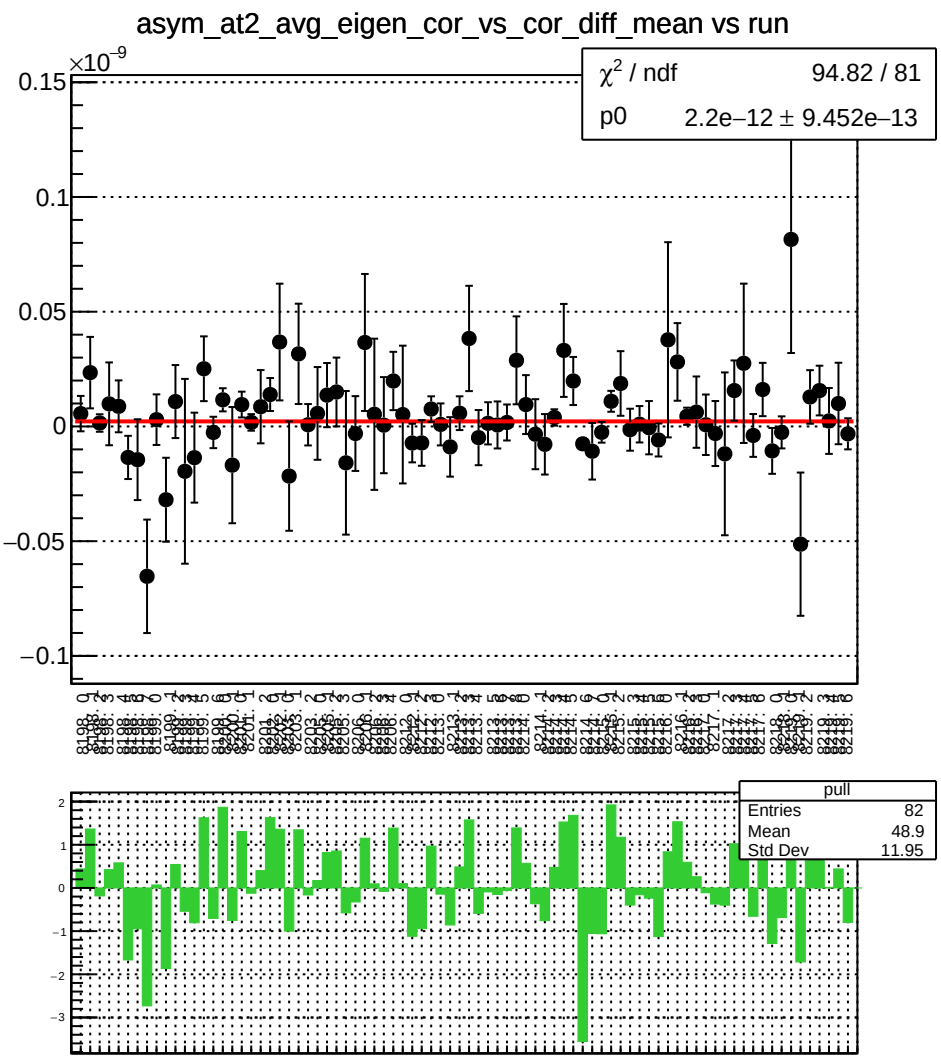

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.305e+05 / 81
p0 0.02622 ± 2.147e−05
0.045
0.04
0.035
0.03
0.025
0.02

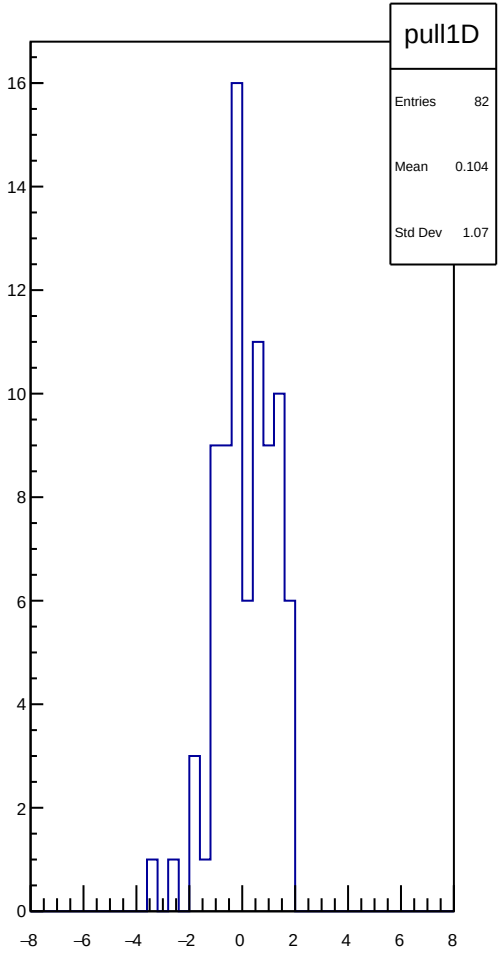

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.3 / 81
p0 0.06324 ± 0.3438
pull
Entries 82
Mean 1947
Std Dev 0
pull1D
Entries 82
Mean 0.003453
Std Dev 1.16

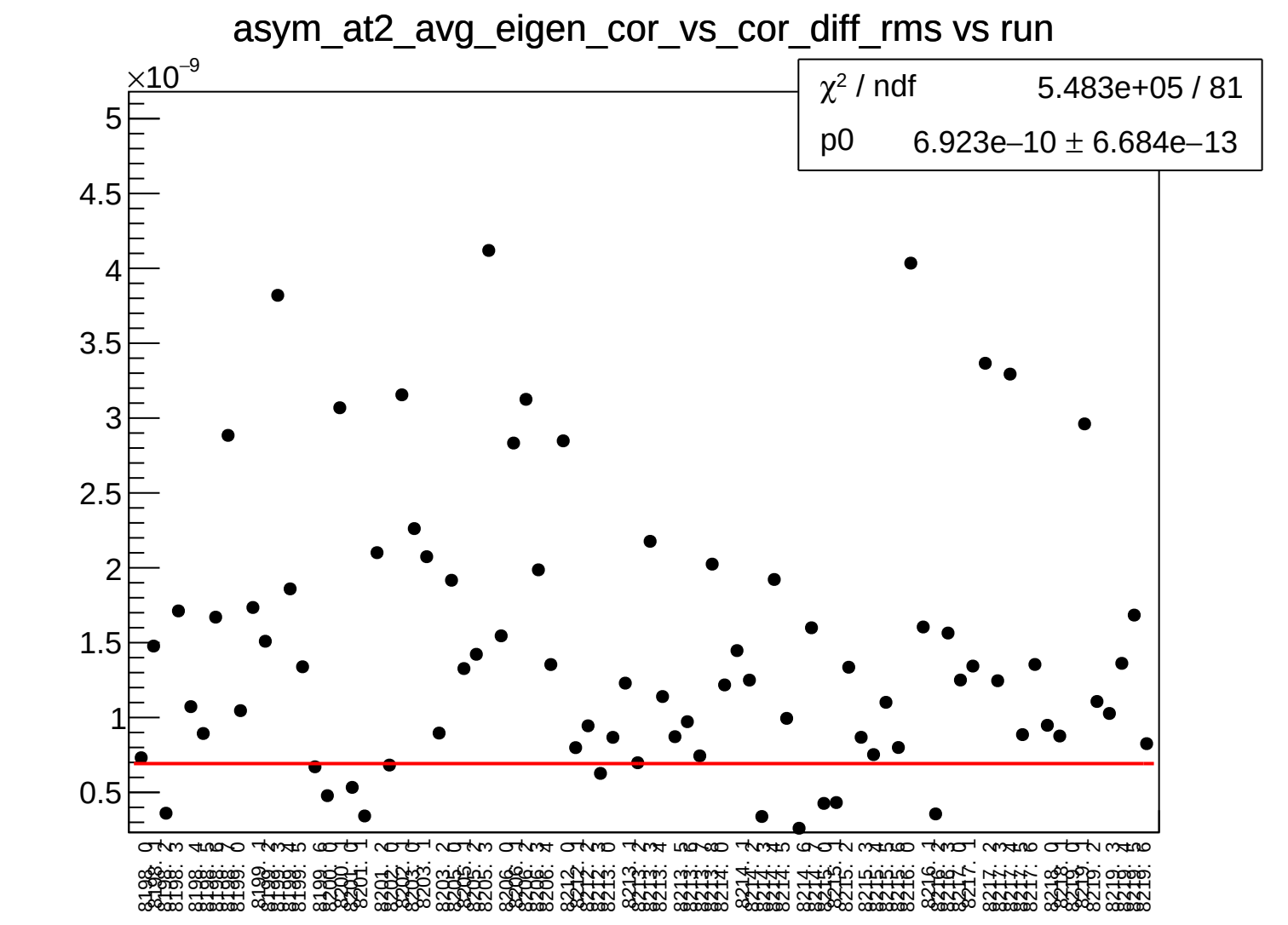

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.383e+04 / 81
p0 304.4 ± 0.2431
650
600
550
500
450
400
350
300
250
200

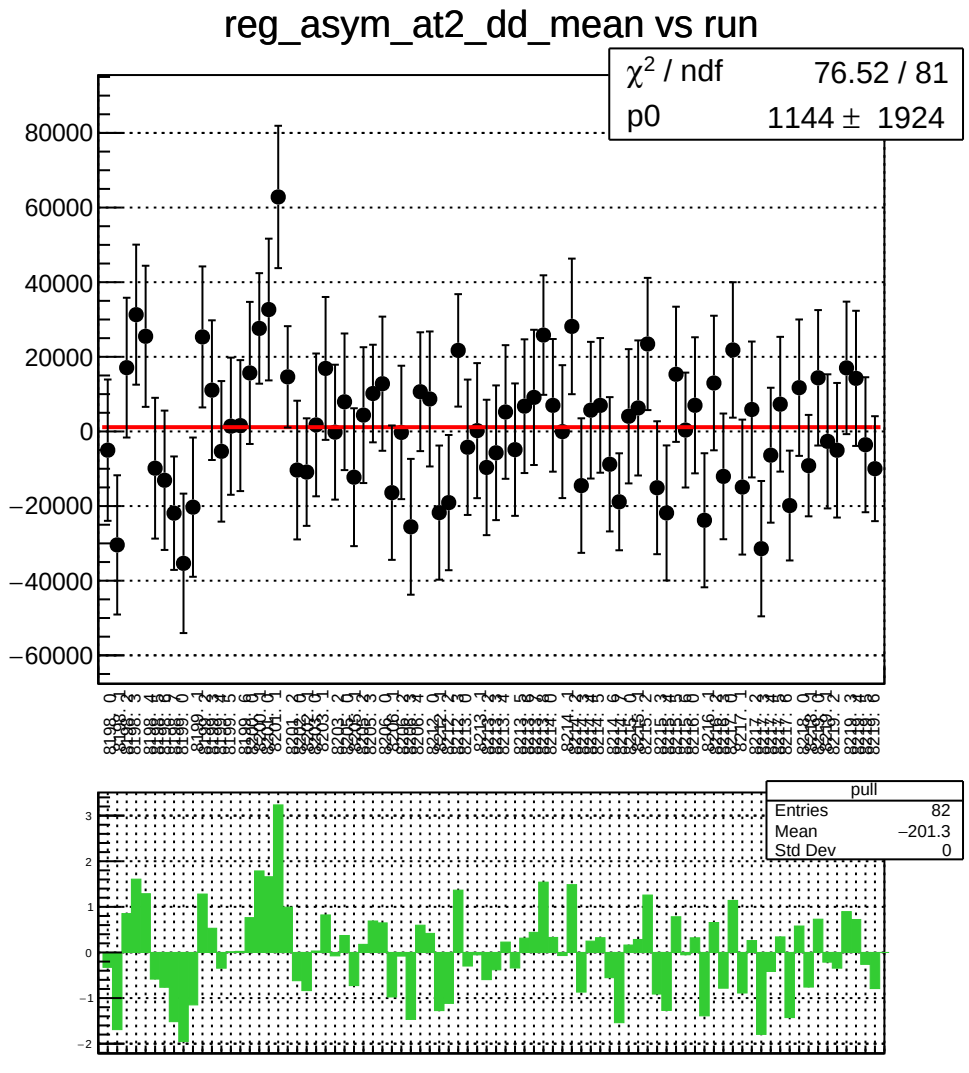

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.3 / 81
p0 0.06324 ± 0.3438
pull
Entries 82
Mean 1947
Std Dev 0
pull1D
Entries 82
Mean 0.003453
Std Dev 1.16

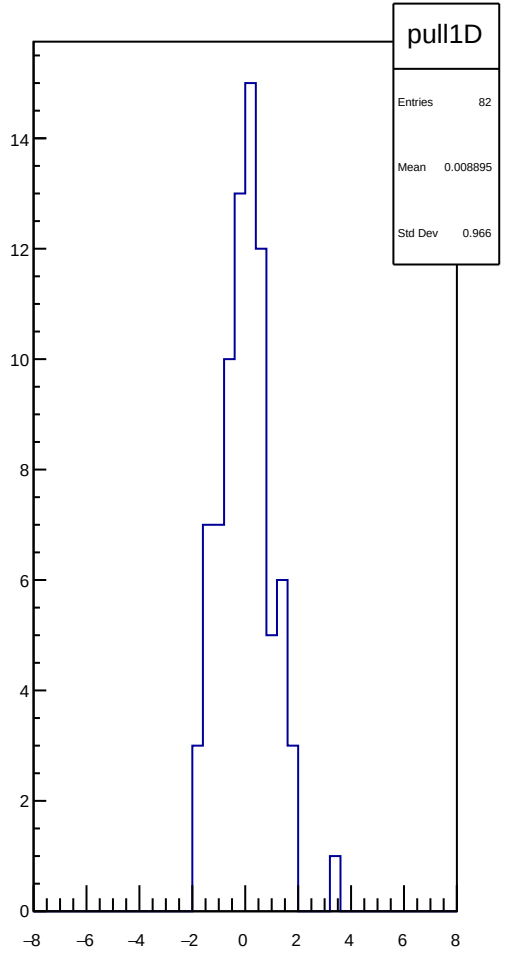

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.383e+04 / 81
p0 304.4 ± 0.2431
650
600
550
500
450
400
350
300
250
200

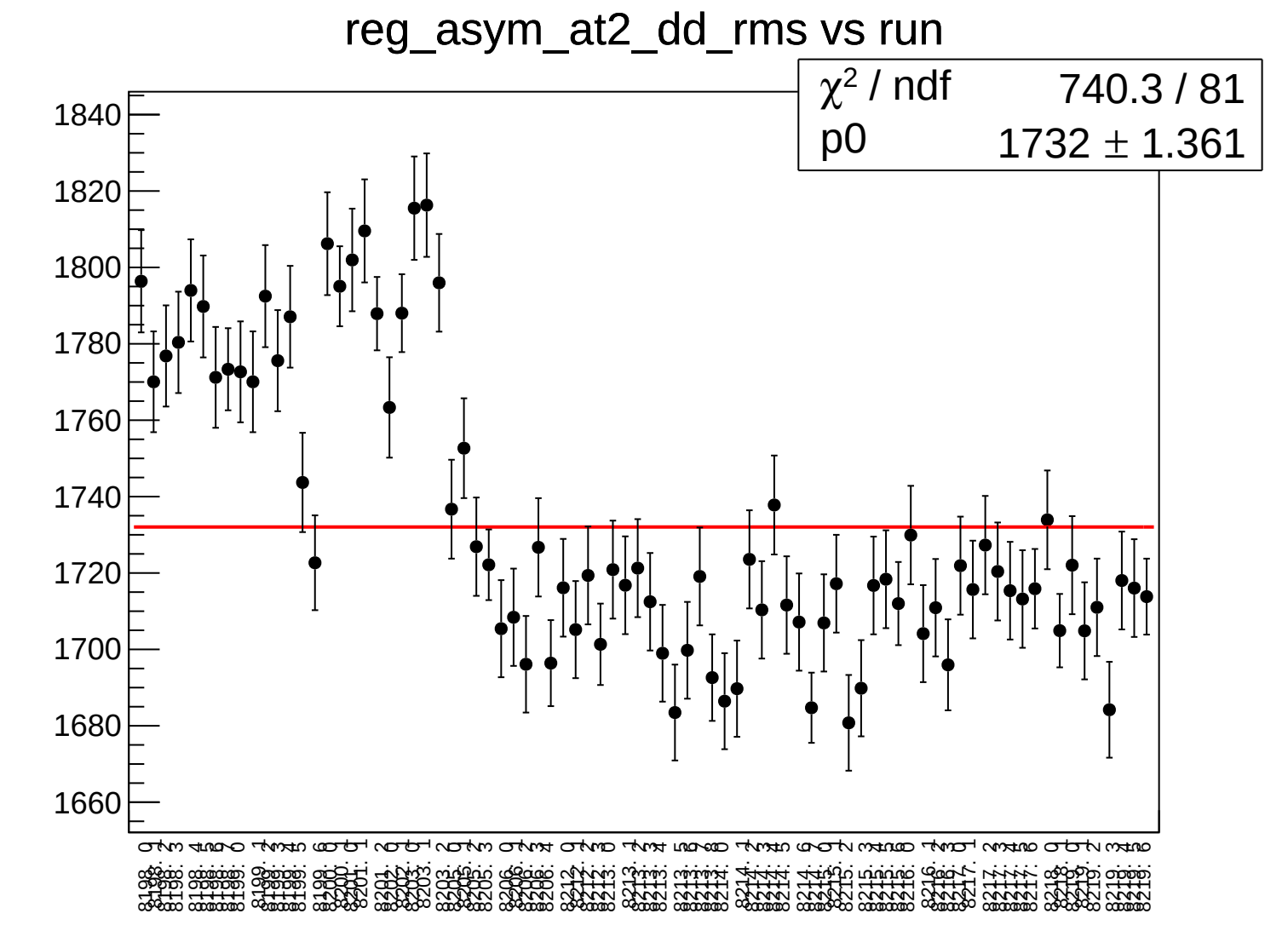

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 94.82 / 81
p0 2.2e−12 ± 9.452e−13
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean 48.9
Std Dev 11.95
2
1
0
−1
−2
−3

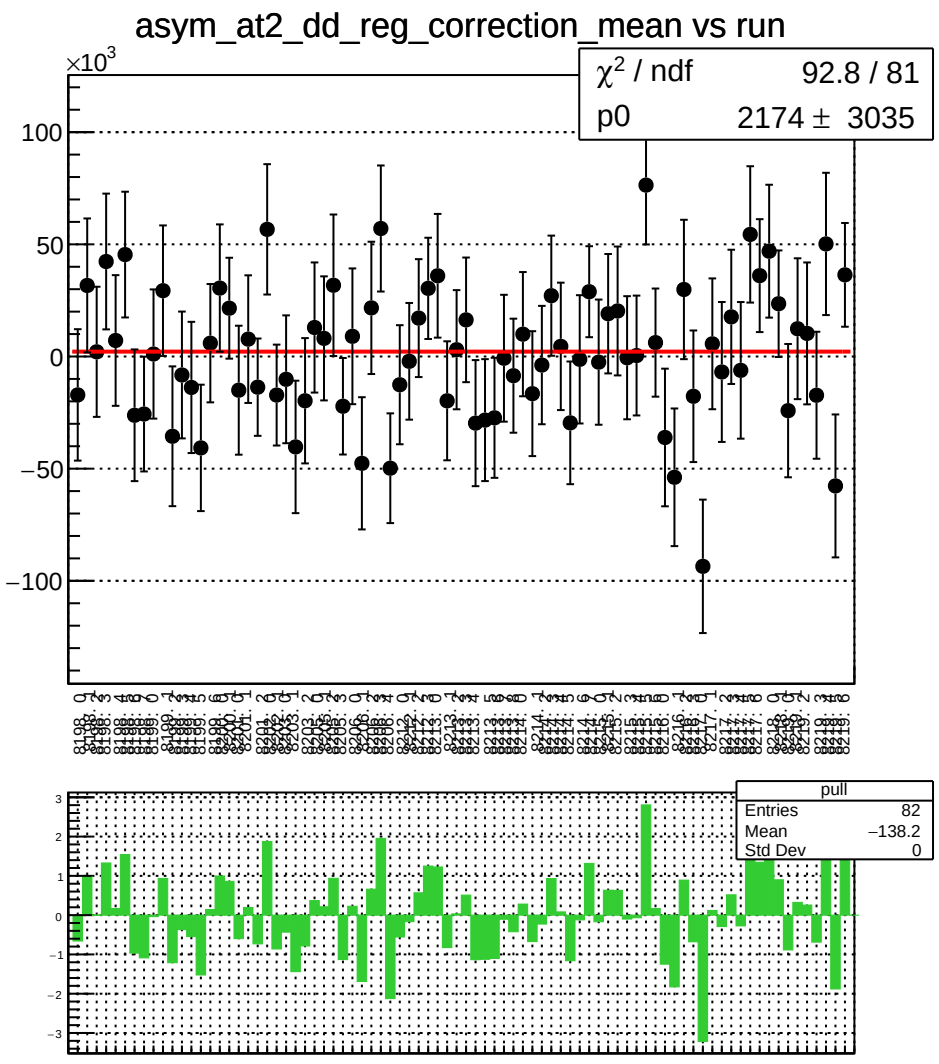

pull1D
Entries 82
Mean 0.104
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

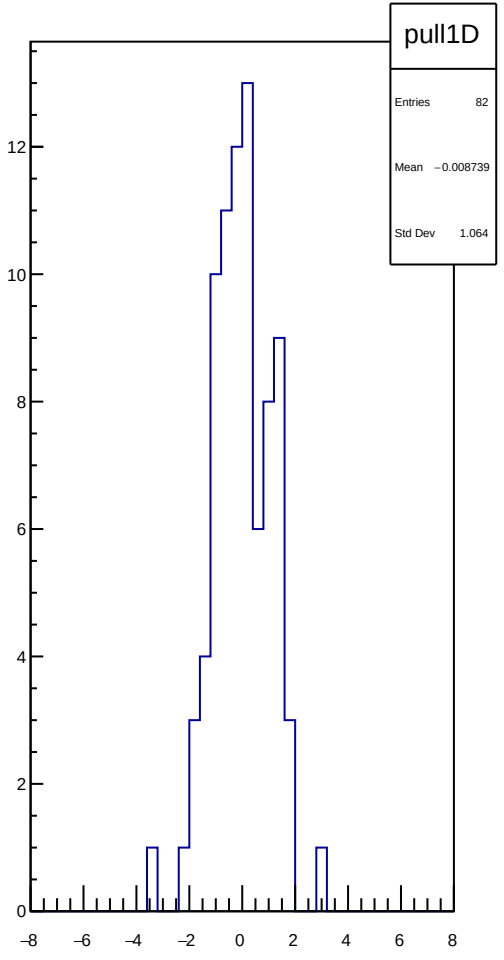

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.483e+05 / 81
p0 6.923e−10 ± 6.684e−13
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

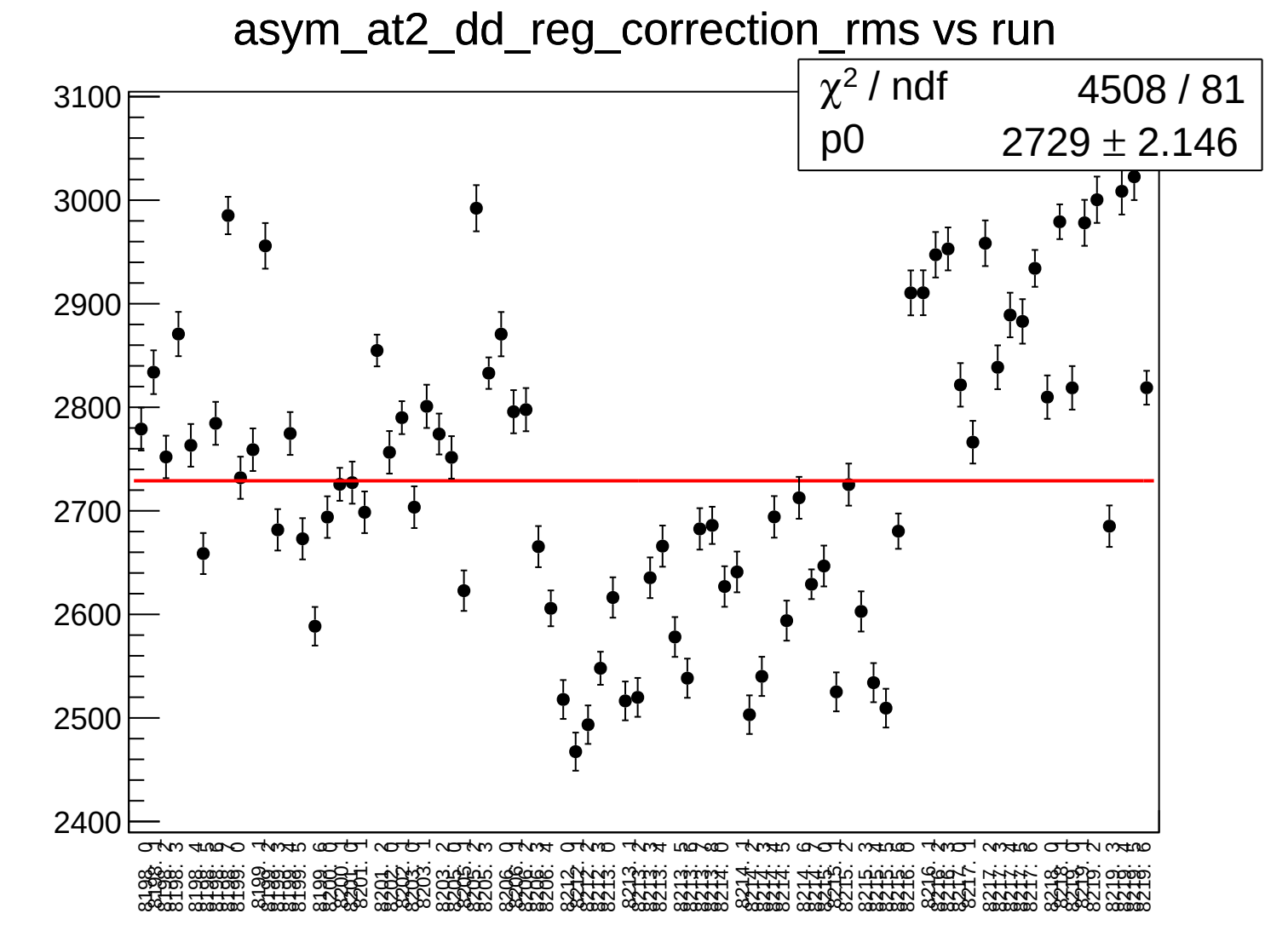

reg_asym_at2_dd_mean vs run
χ² / ndf 76.52 / 81
p0 1144 ± 1924
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −201.3
Std Dev 0
3
2
1
0
−1
−2

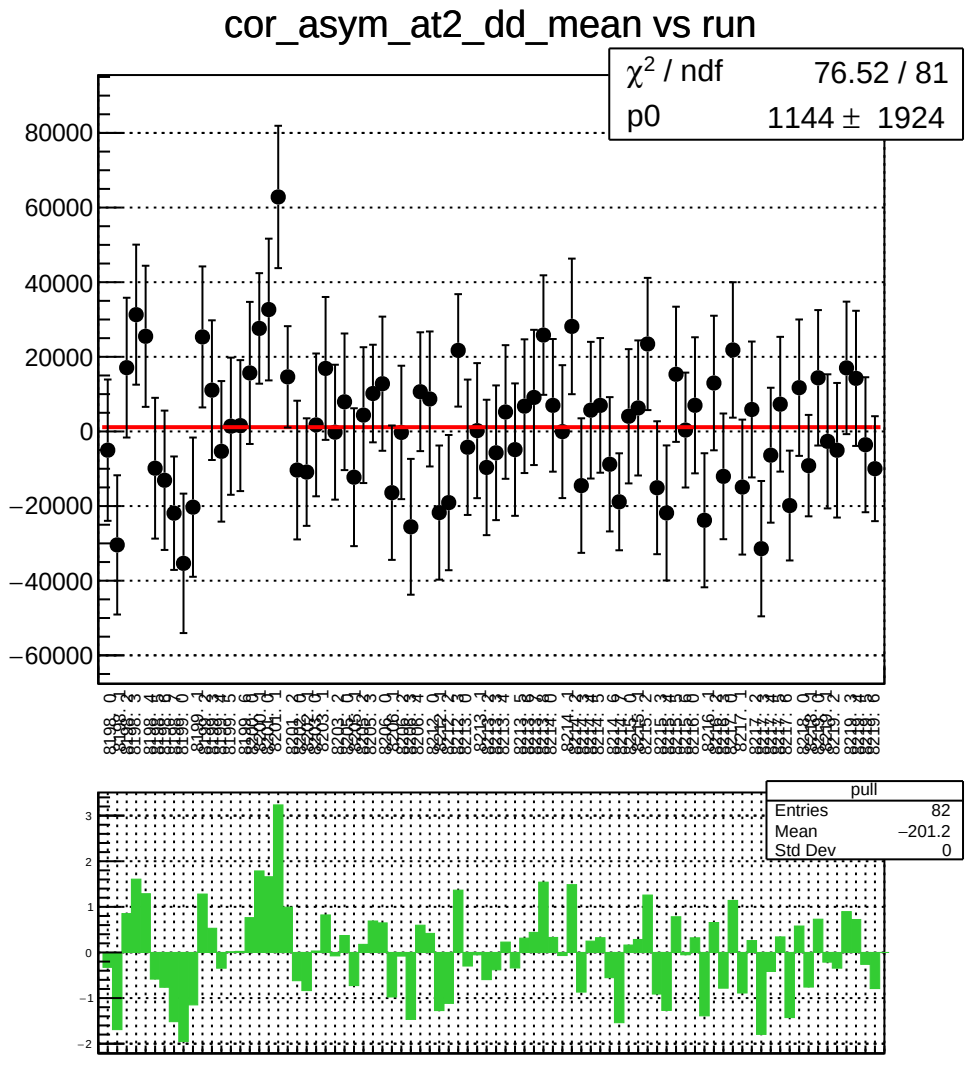

pull1D
Entries 82
Mean 0.008895
Std Dev 0.966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

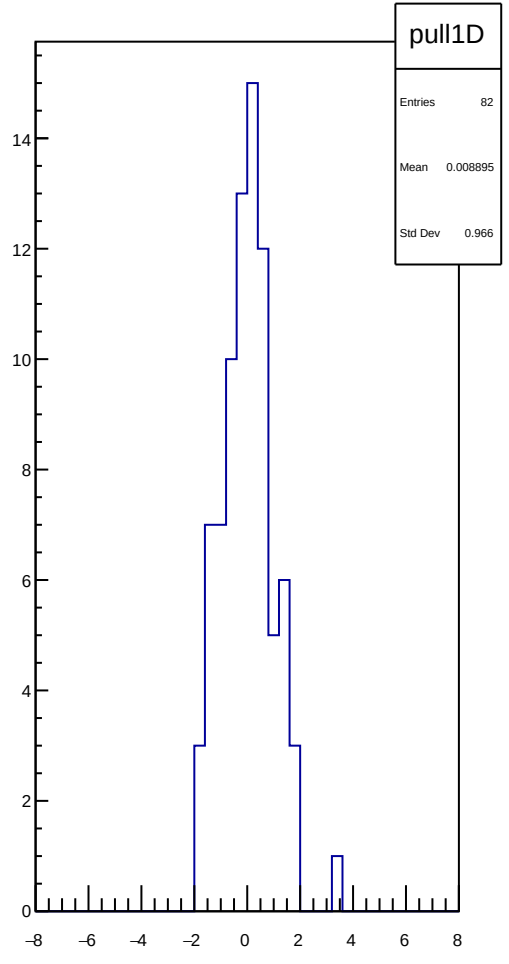

reg_asym_at2_dd_rms vs run
χ² / ndf 740.3 / 81
p0 1732 ± 1.361
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

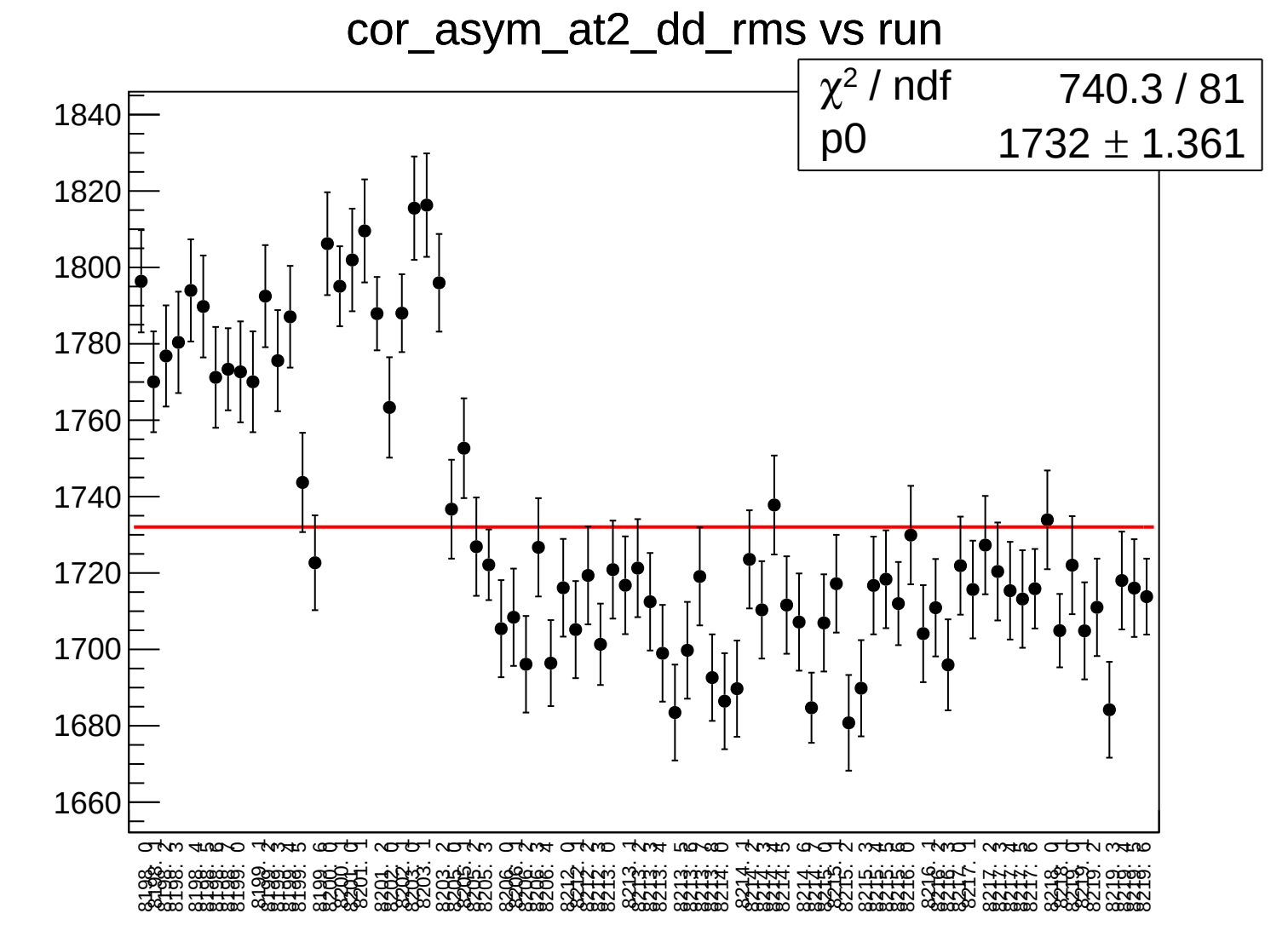

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 92.8 / 81
p0 2174 ± 3035
100
50
0
−50
−100
pull
Entries 82
Mean −138.2
Std Dev 0
3
2
1
0
−1
−2
−3

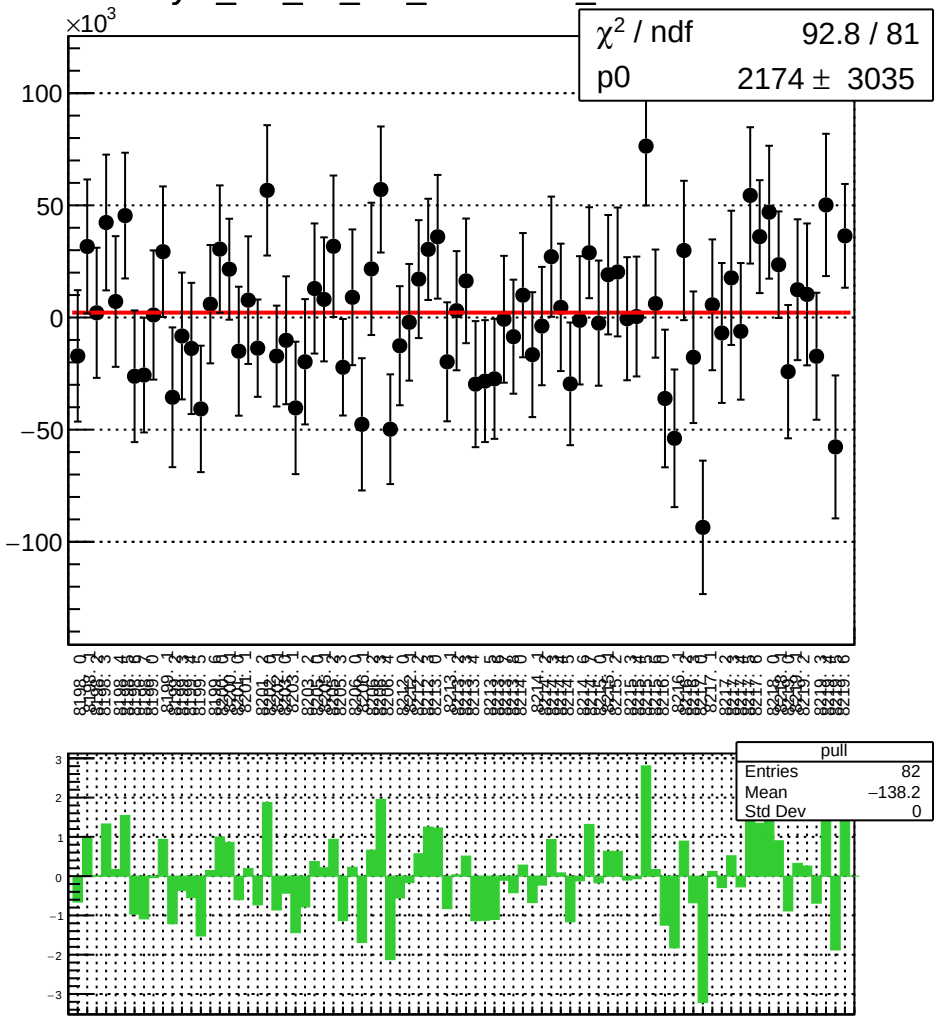

pull1D
Entries 82
Mean −0.008739
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

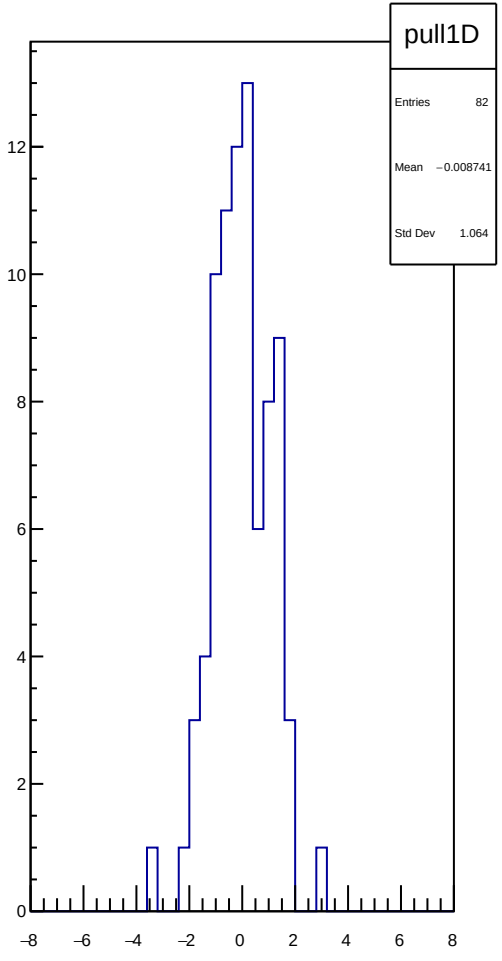

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 4508 / 81
p0 2729 ± 2.146
3100
3000
2900
2800
2700
2600
2500
2400

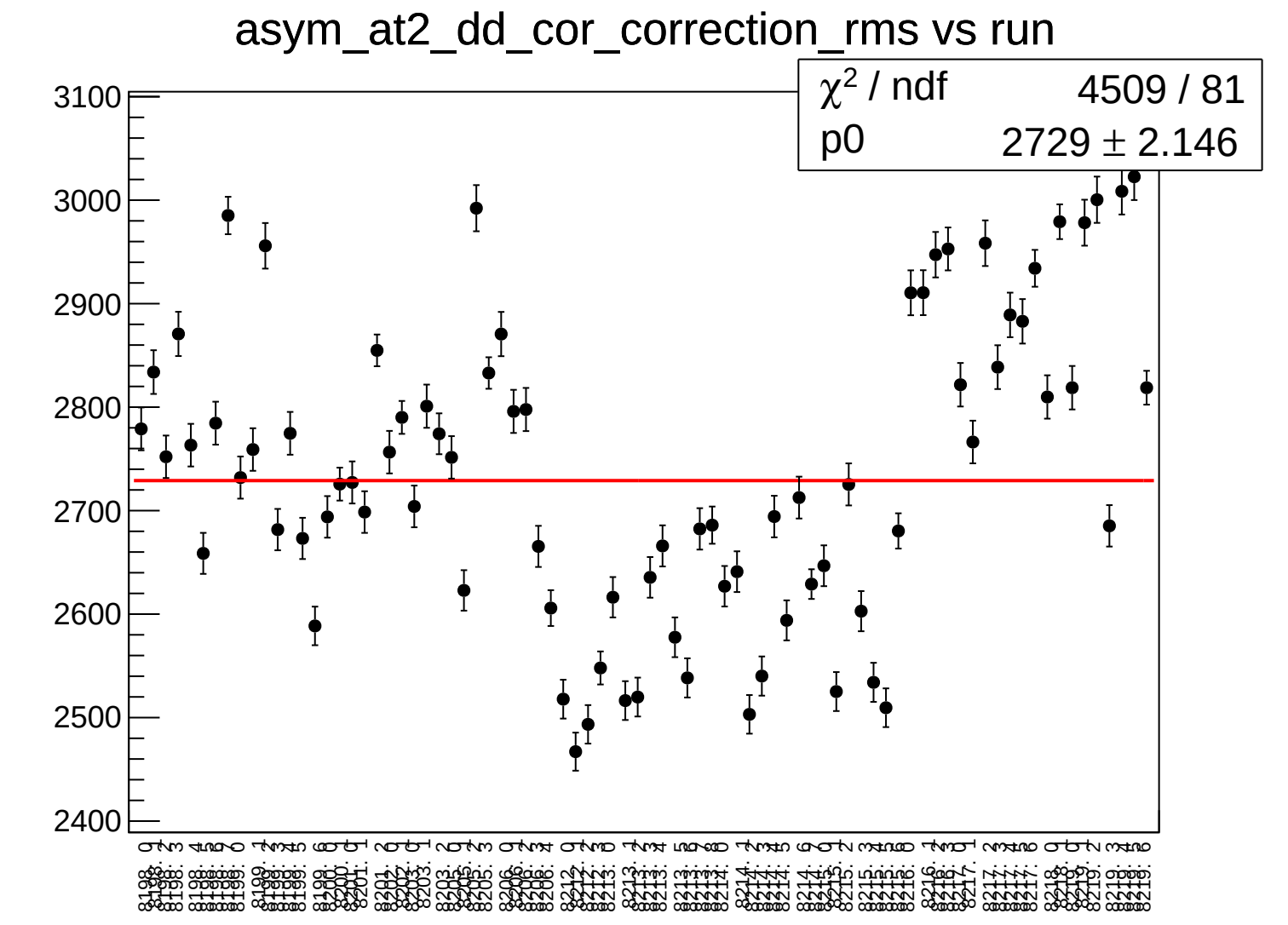

cor_asym_at2_dd_mean vs run
χ² / ndf 76.52 / 81
p0 1144 ± 1924
pull
Entries 82
Mean −201.2
Std Dev 0

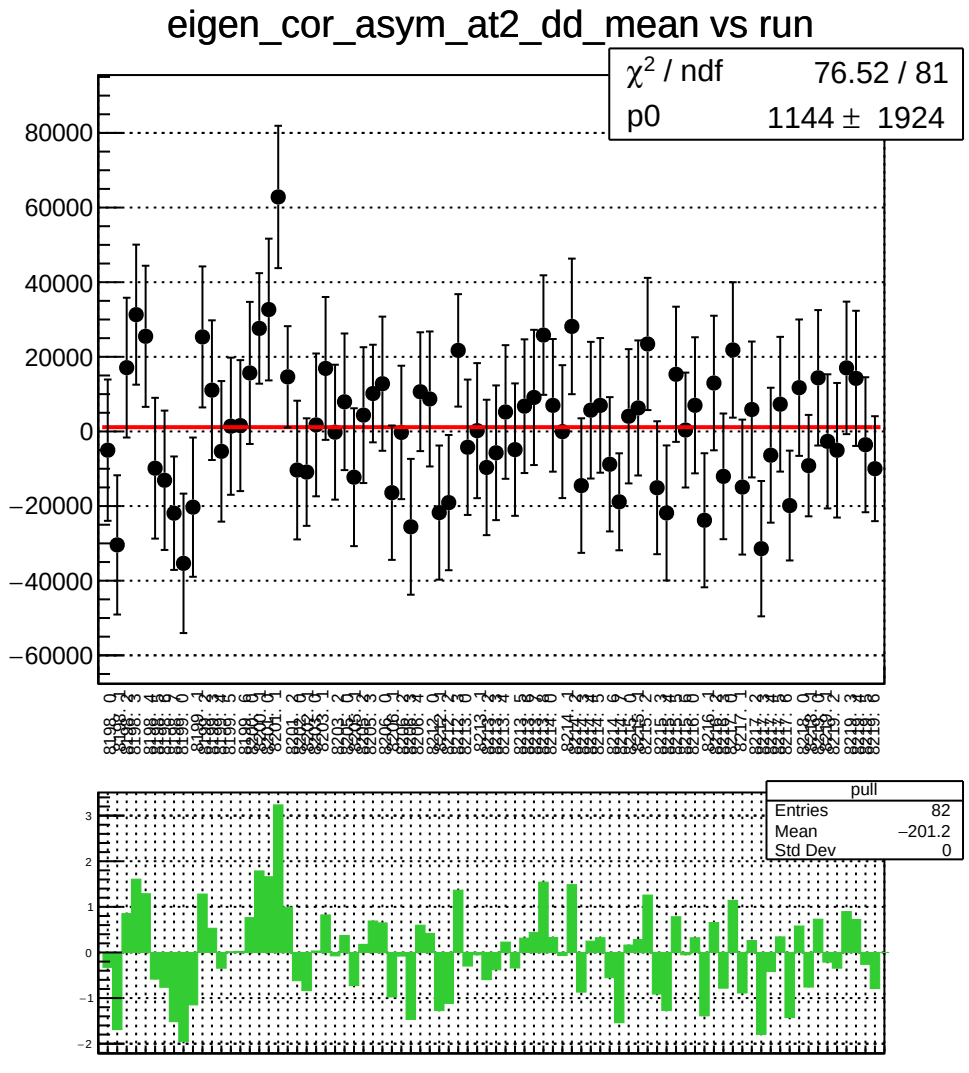

pull1D
Entries 82
Mean 0.008895
Std Dev 0.966

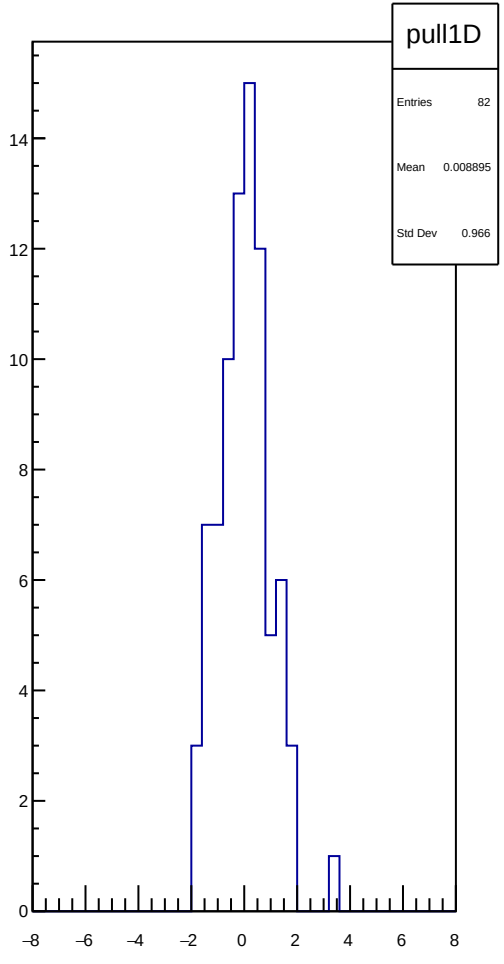

cor_asym_at2_dd_rms vs run
χ² / ndf 740.3 / 81
p0 1732 ± 1.361
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

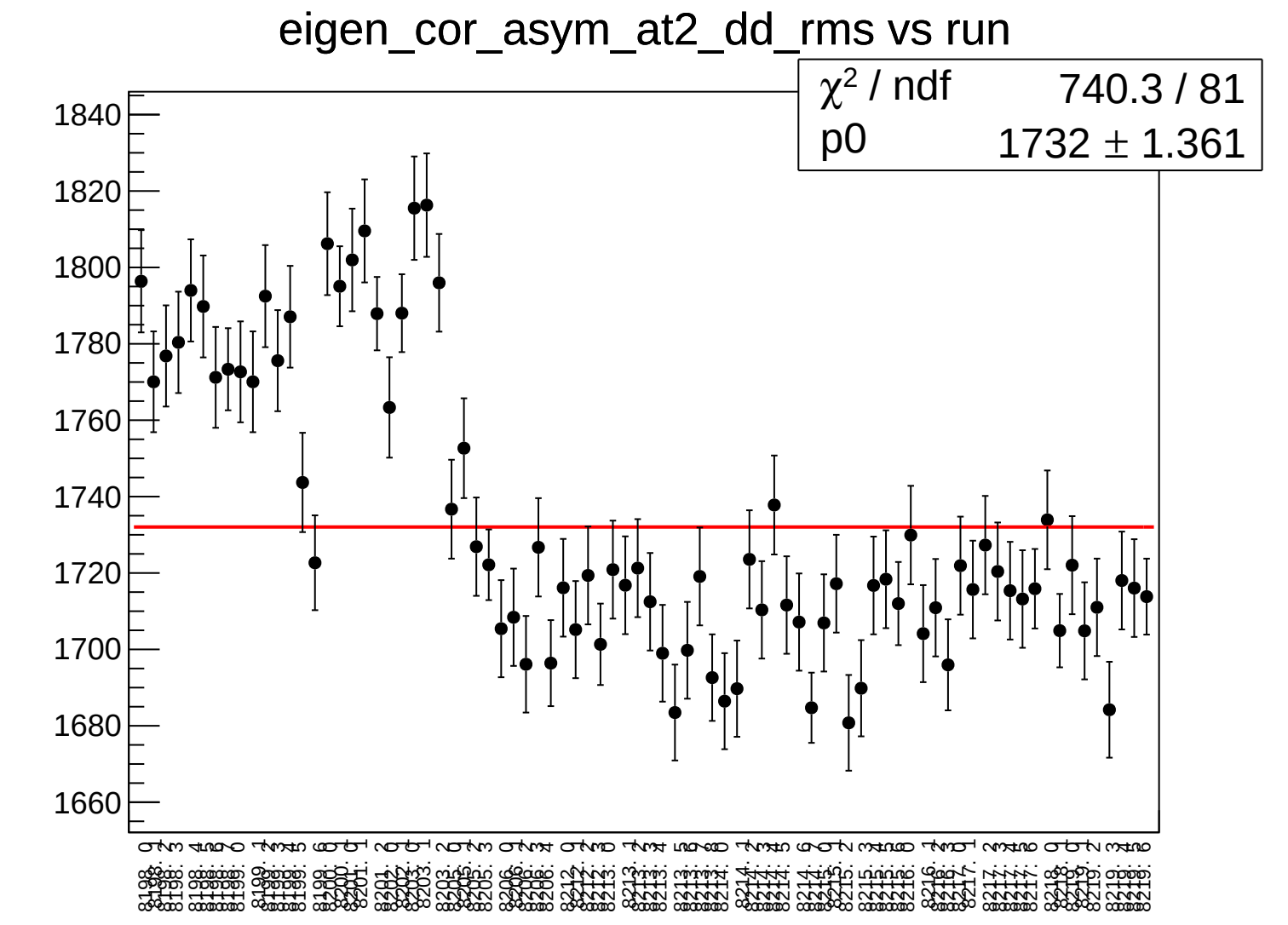

asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 92.8 / 81
p0 2174 ± 3035
100
50
0
−50
−100
pull
Entries 82
Mean −138.2
Std Dev 0
3
2
1
0
−1
−2
−3

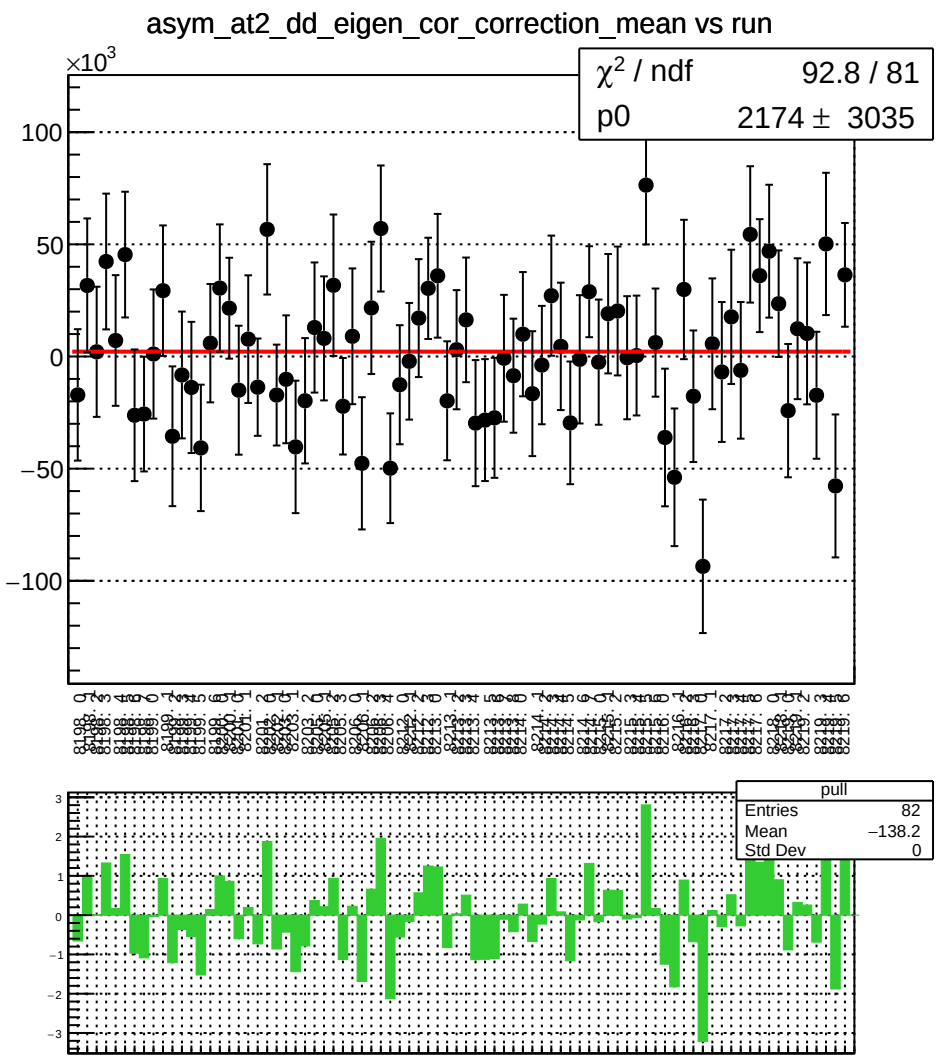

pull1D
Entries 82
Mean −0.008741
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

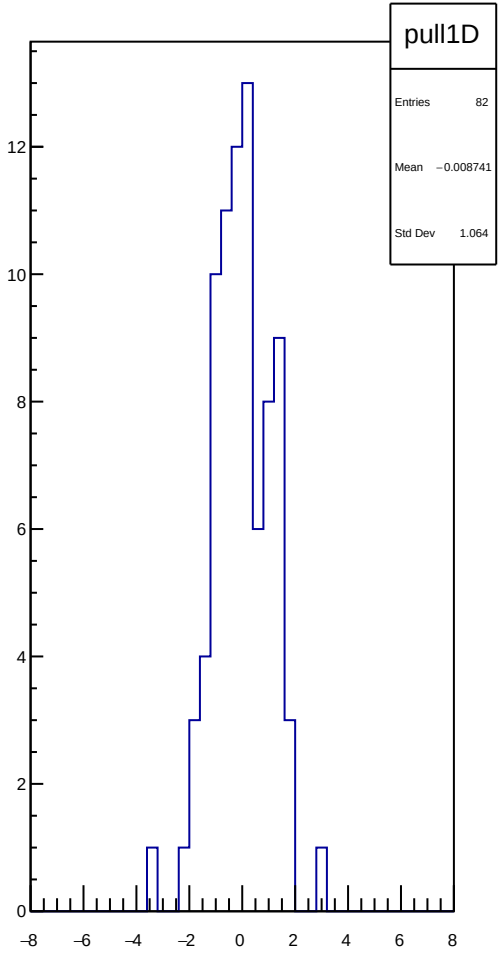

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 4509 / 81
p0 2729 ± 2.146
3100
3000
2900
2800
2700
2600
2500
2400

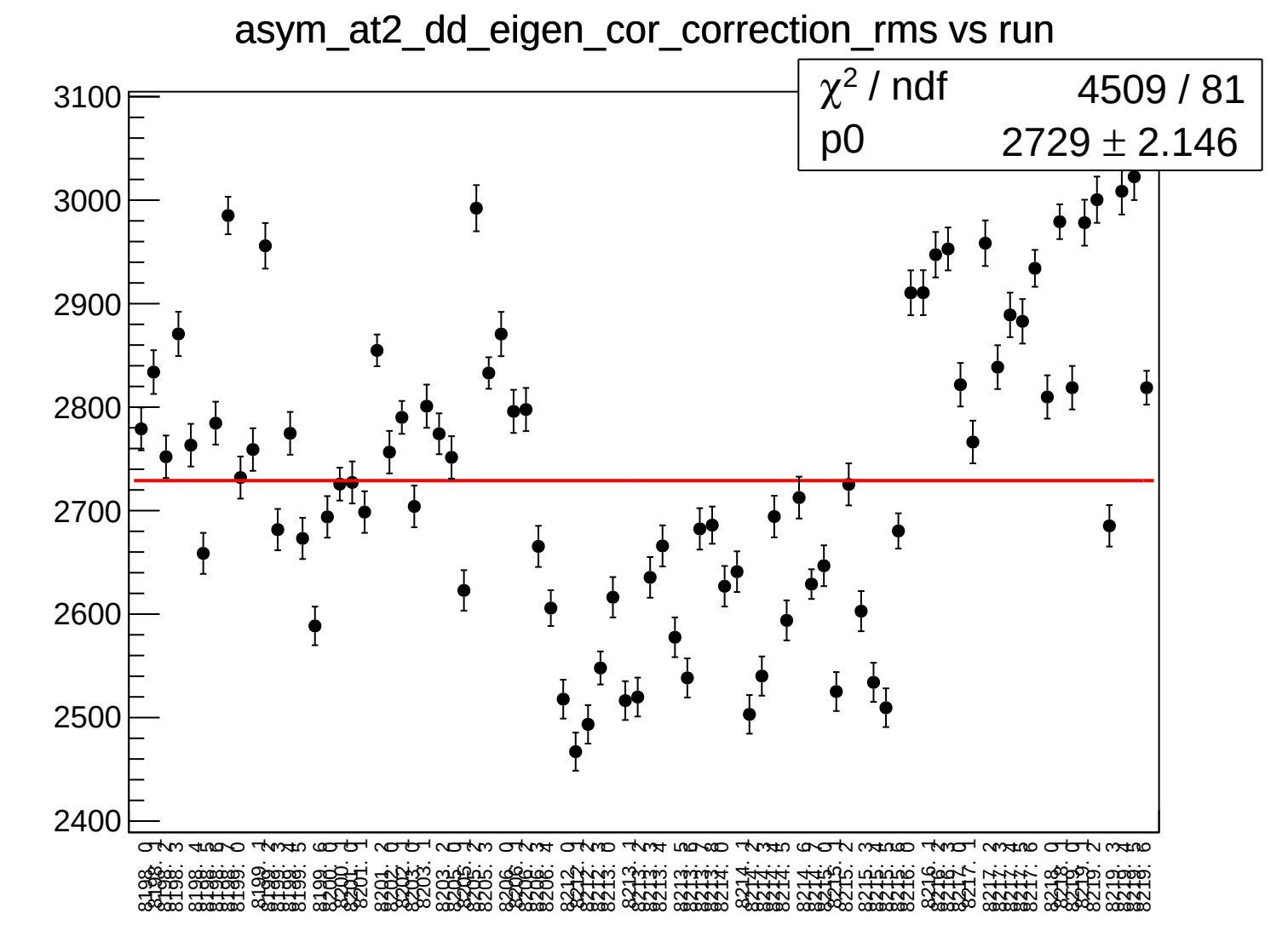

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 76.52 / 81
p0 1144 ± 1924
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −201.2
Std Dev 0
3
2
1
0
−1
−2

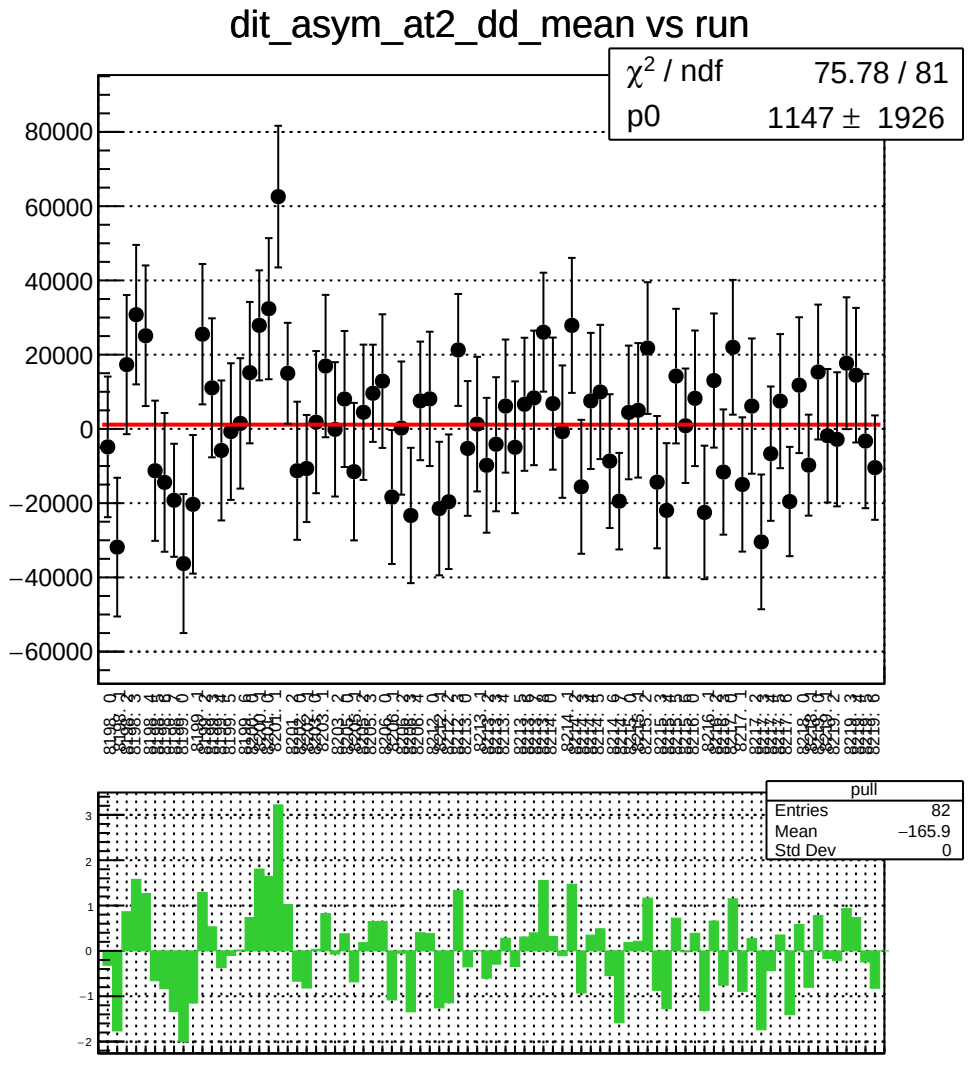

pull1D
Entries 82
Mean 0.008895
Std Dev 0.966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

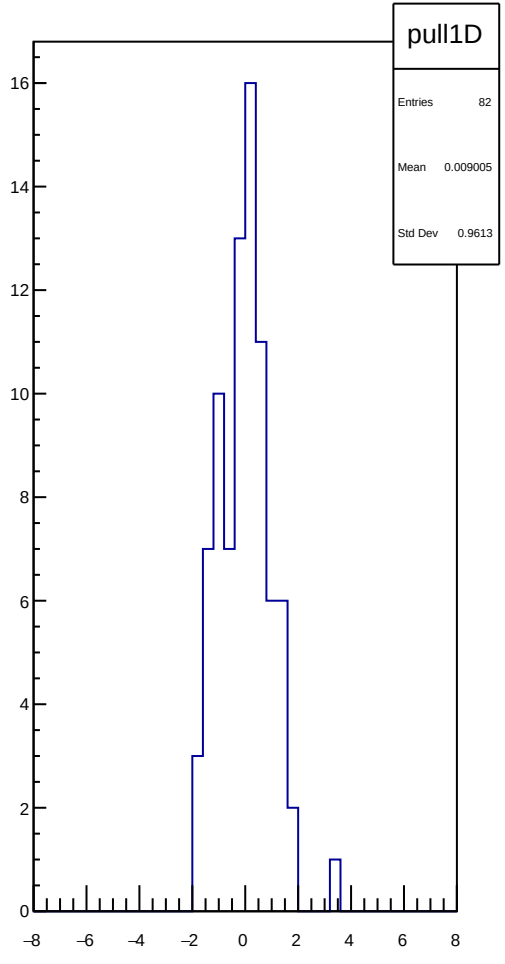

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 740.3 / 81
p0 1732 ± 1.361
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

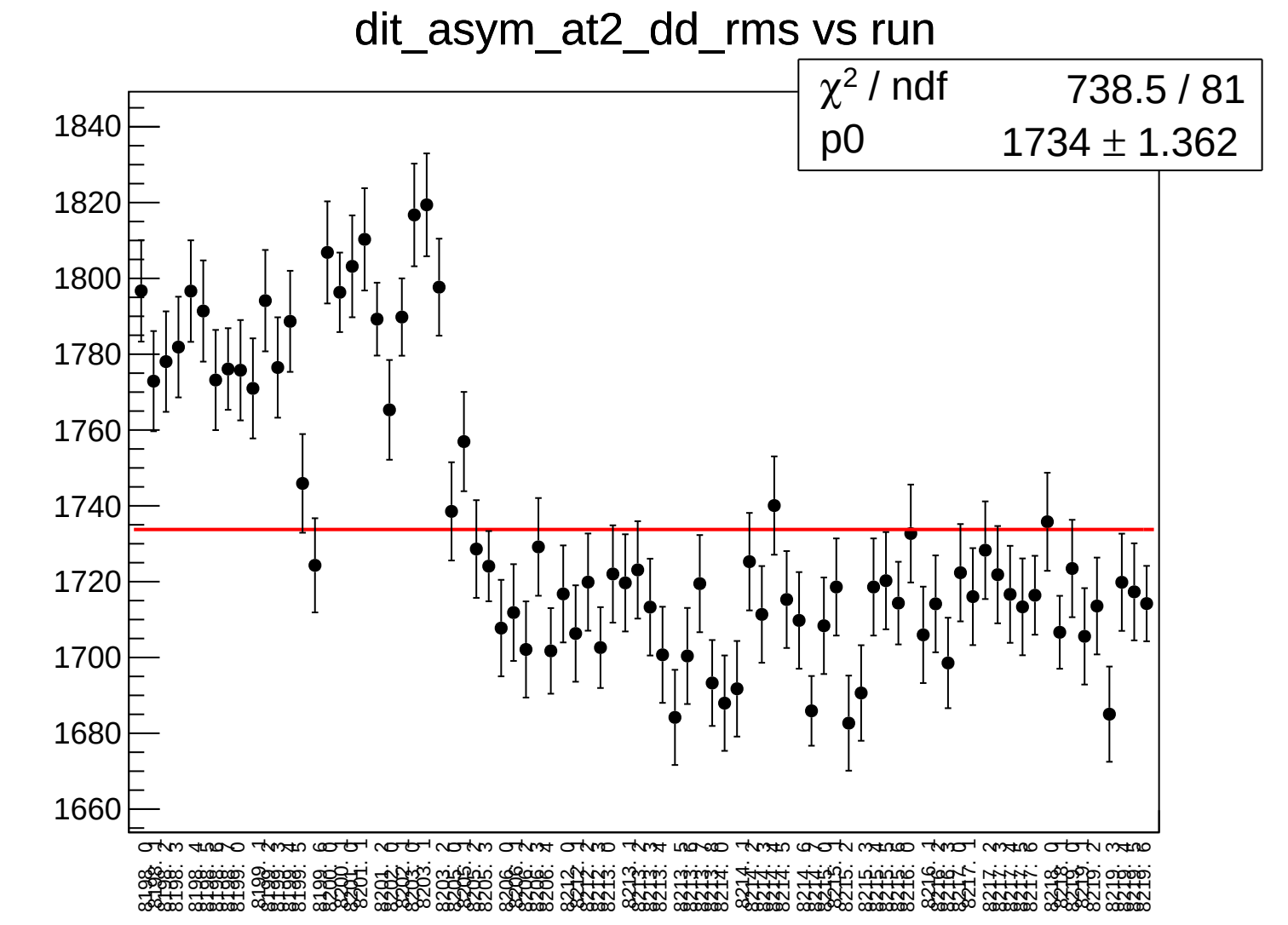

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.8 / 81
p0 2174 ± 3035
100
50
0
−50
−100
pull
Entries 82
Mean −138.2
Std Dev 0
3
2
1
0
−1
−2
−3

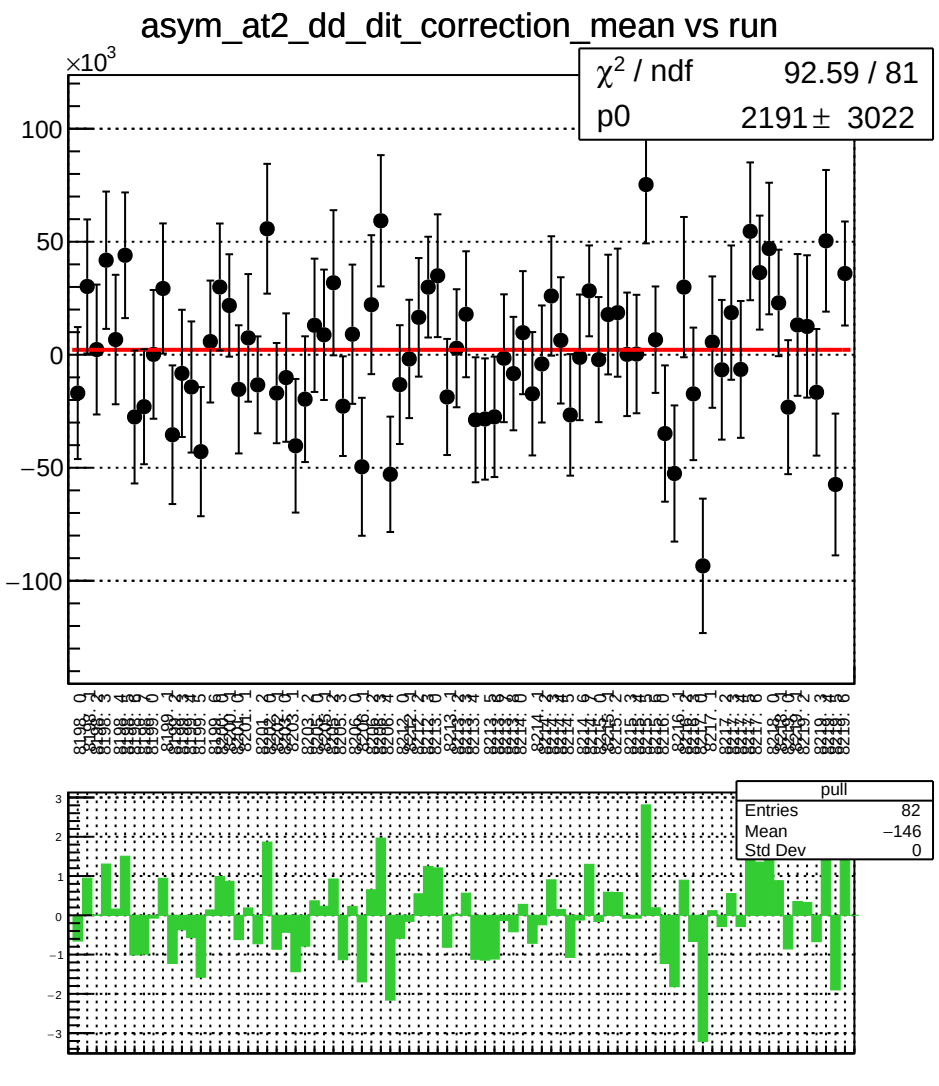

pull1D
Entries 82
Mean −0.008741
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

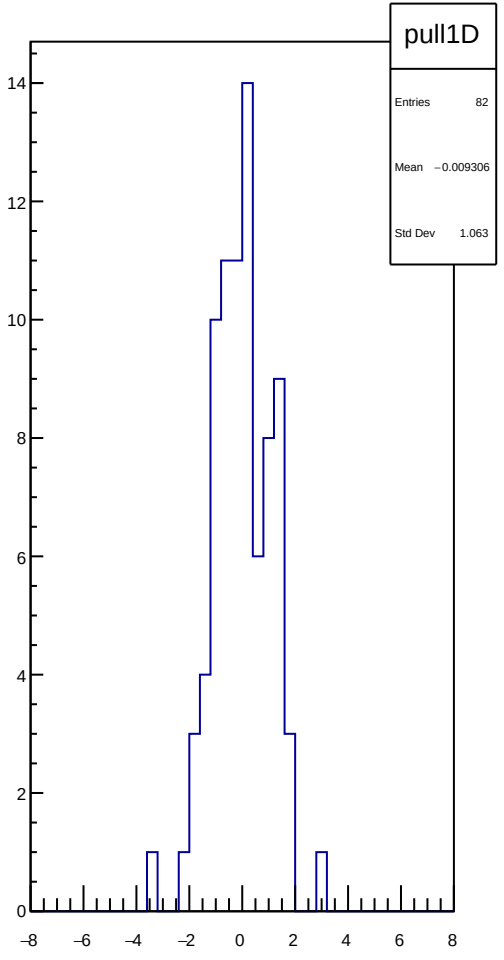

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4509 / 81
p0 2729 ± 2.146
3100
3000
2900
2800
2700
2600
2500
2400

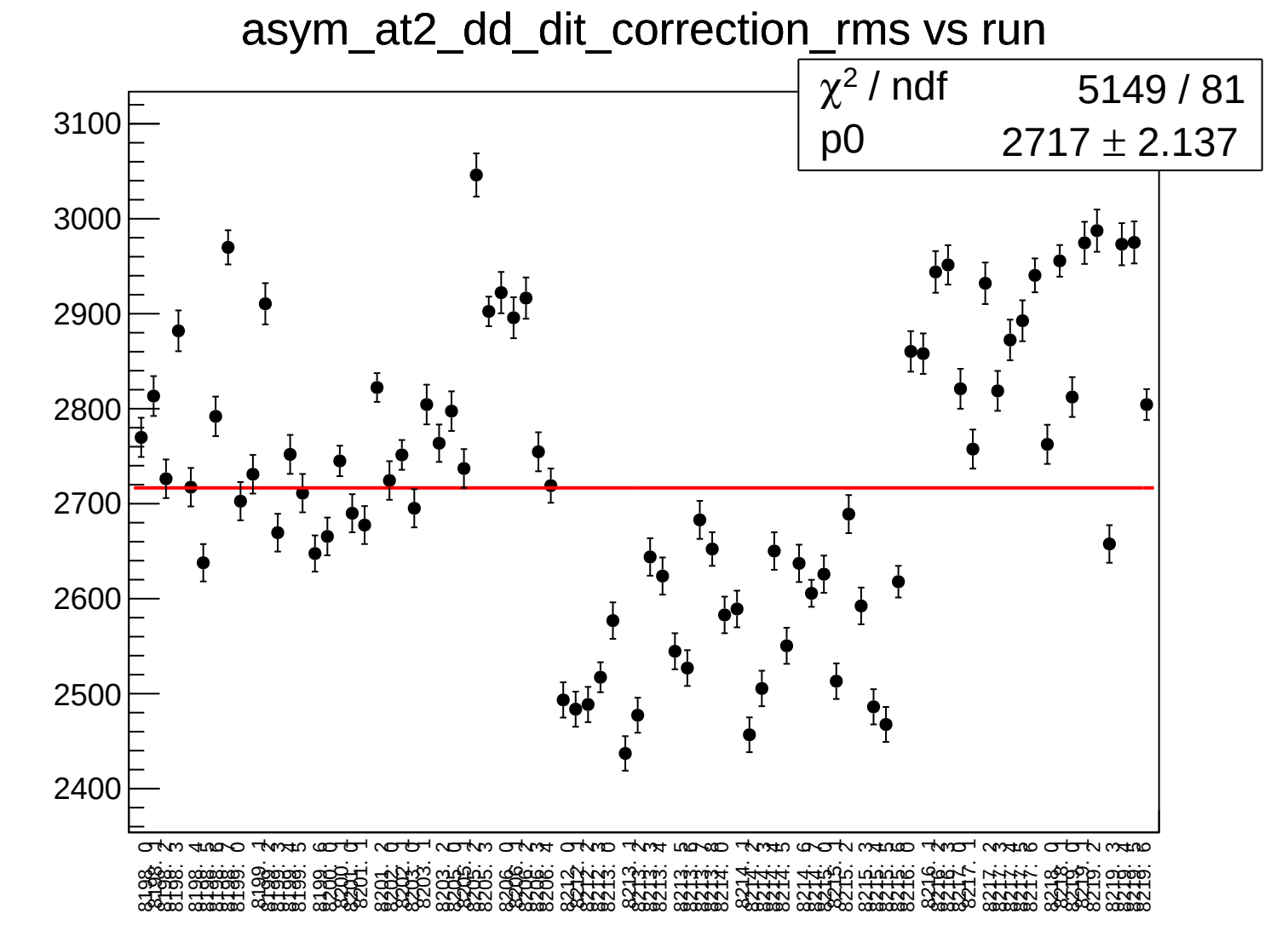

dit_asym_at2_dd_mean vs run
χ² / ndf 75.78 / 81
p0 1147 ± 1926
pull
Entries 82
Mean −165.9
Std Dev 0

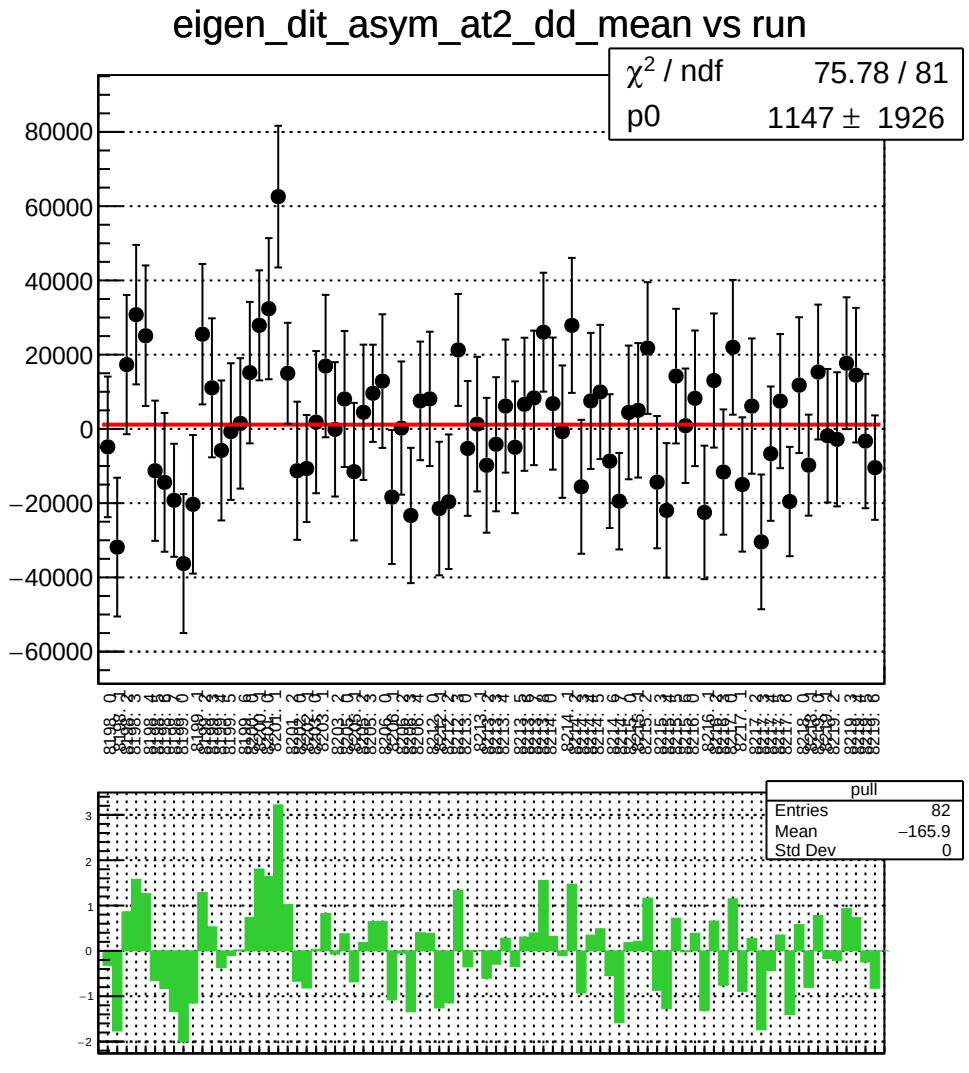

pull1D
Entries 82
Mean 0.009005
Std Dev 0.9613

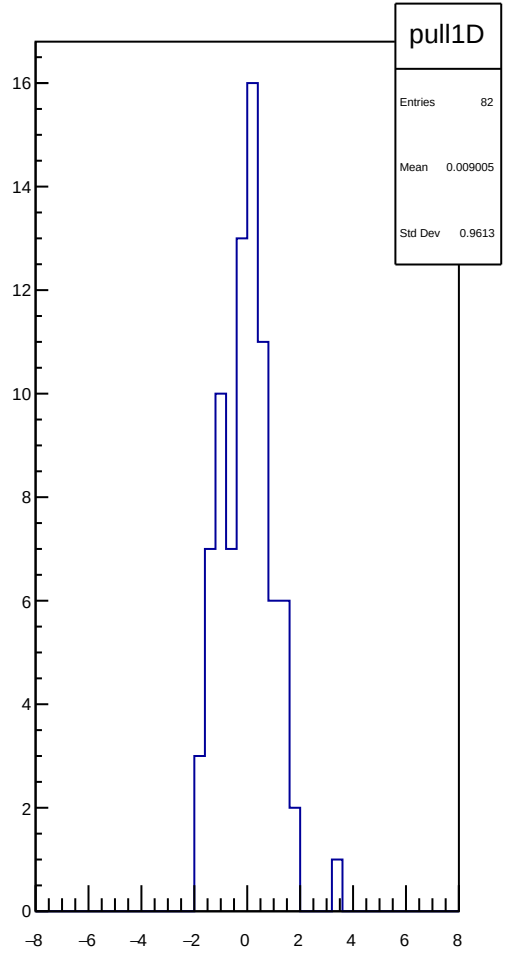

dit_asym_at2_dd_rms vs run
χ² / ndf 738.5 / 81
p0 1734 ± 1.362
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

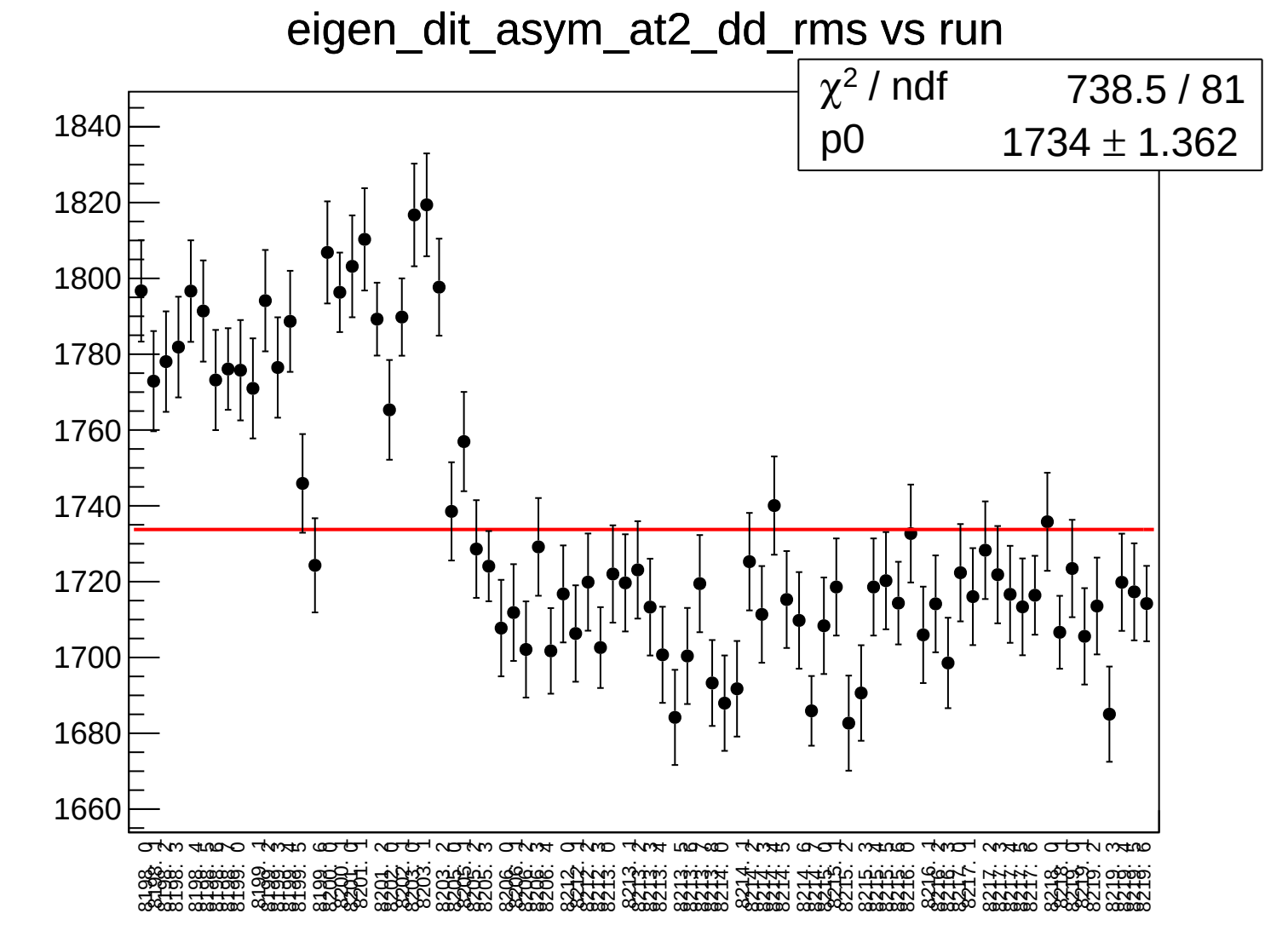

asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 92.59 / 81
p0 2191 ± 3022
100
50
0
−50
−100
pull
Entries 82
Mean −146
Std Dev 0
3
2
1
0
−1
−2
−3

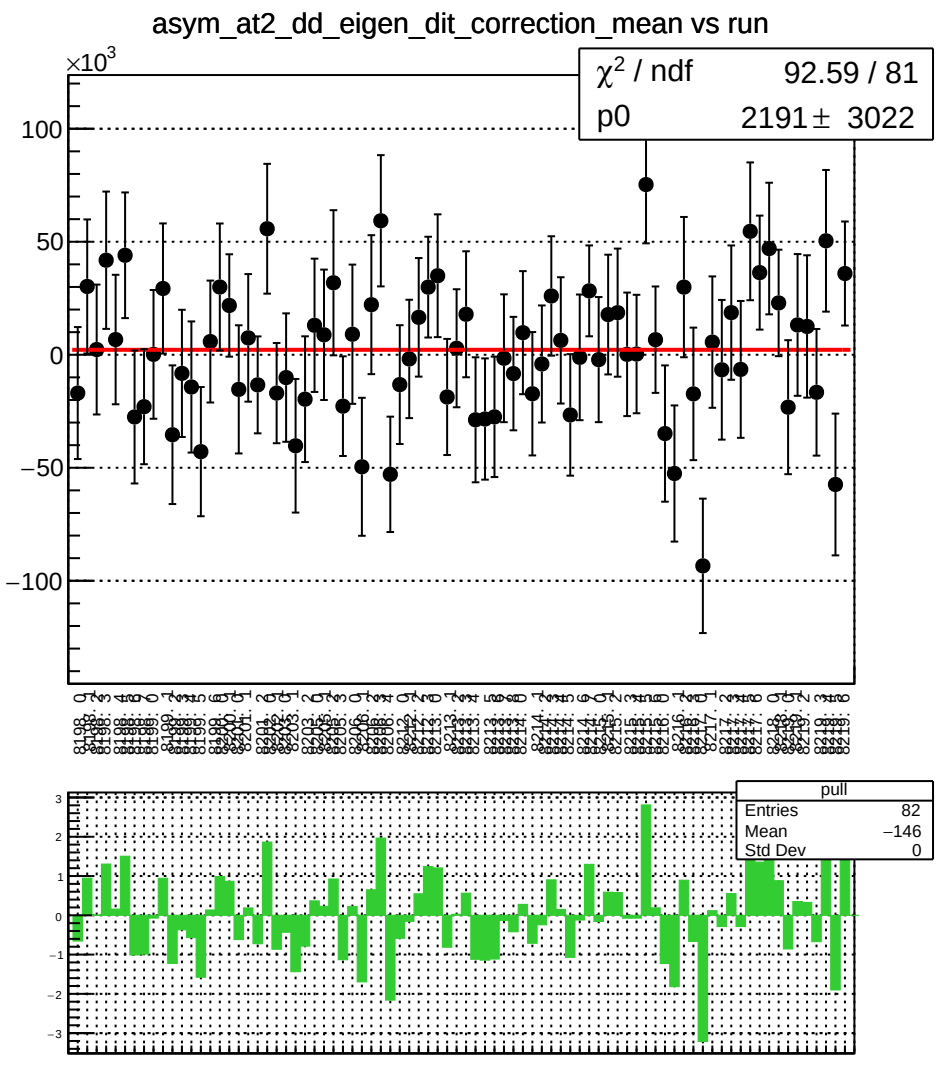

pull1D
Entries 82
Mean −0.009306
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

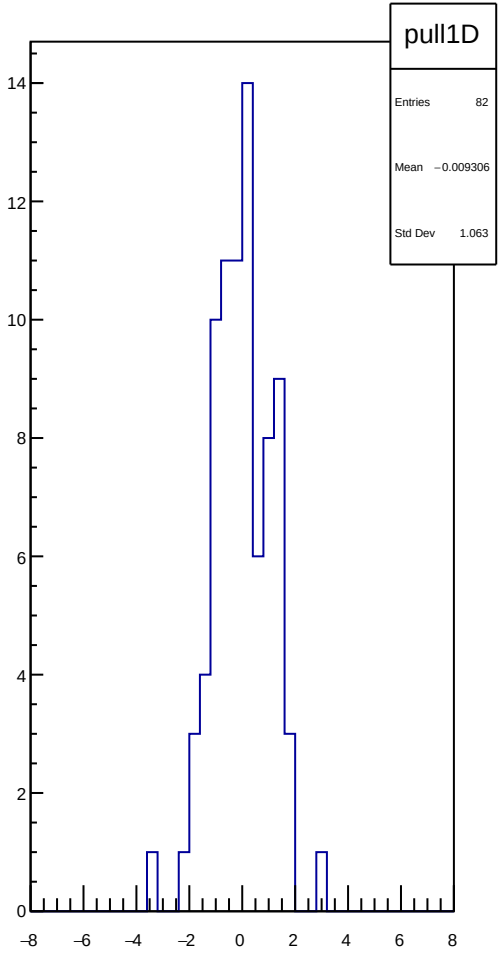

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 5149 / 81
p0 2717 ± 2.137
3100
3000
2900
2800
2700
2600
2500
2400

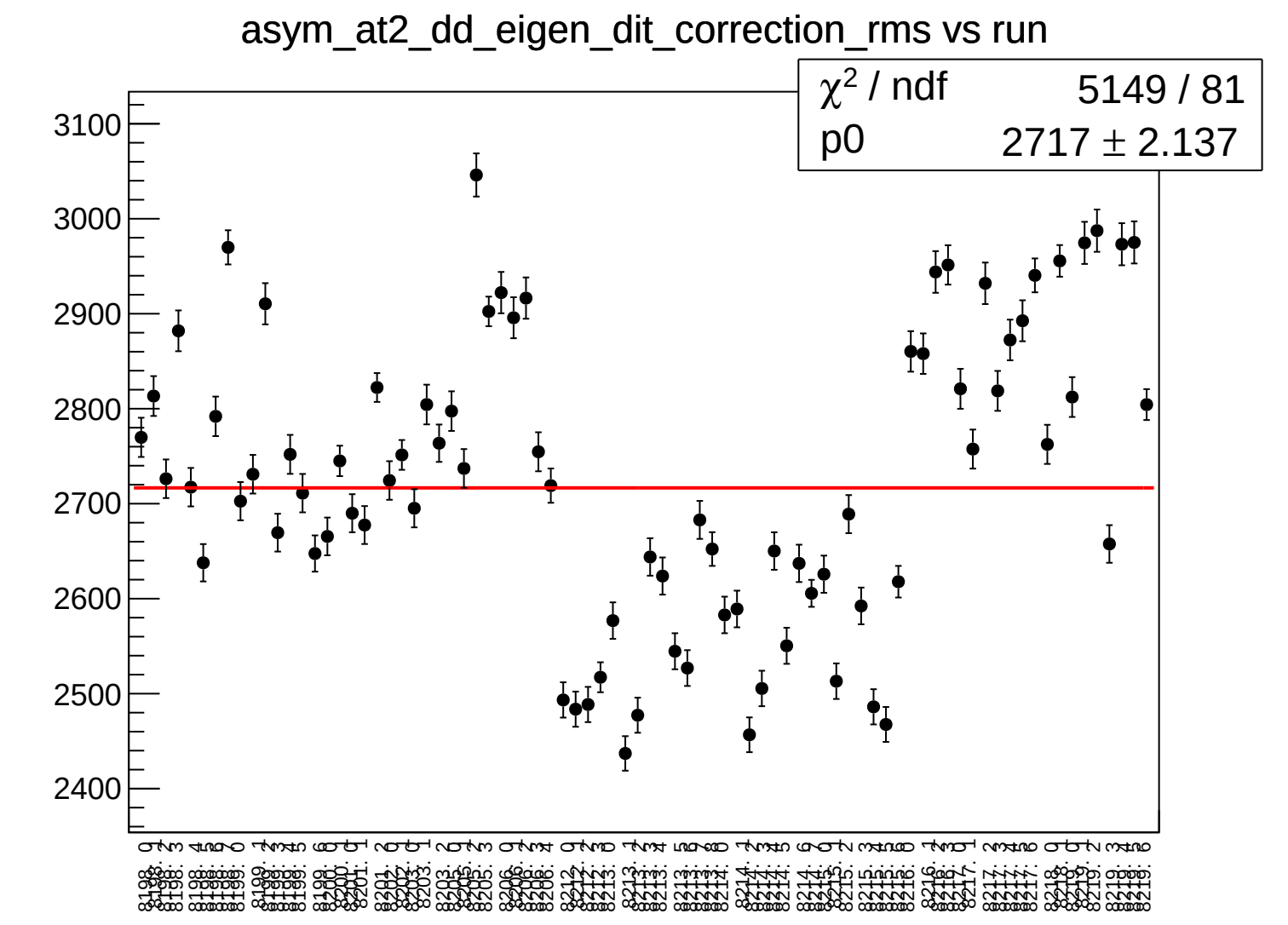

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 75.78 / 81
p0 1147 ± 1926
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −165.9
Std Dev 0
3
2
1
0
−1
−2

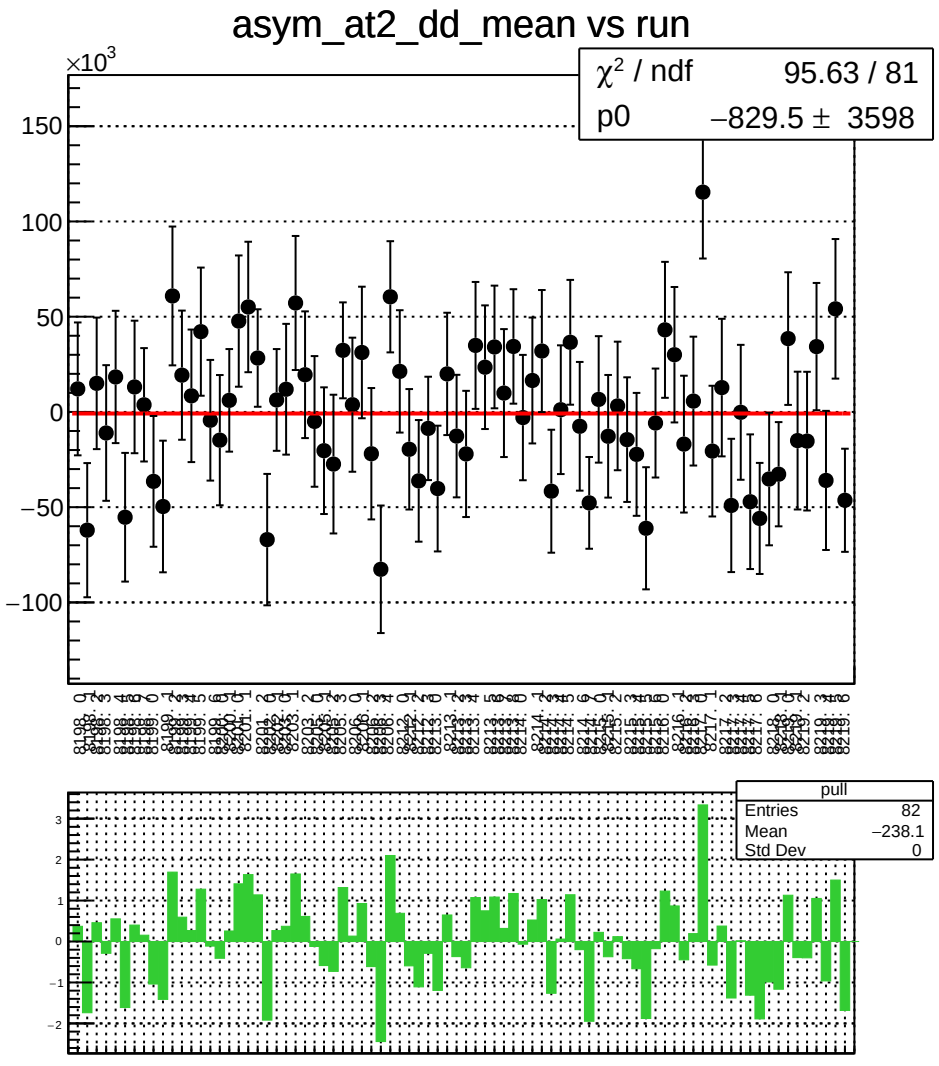

pull1D
Entries 82
Mean 0.009005
Std Dev 0.9613
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

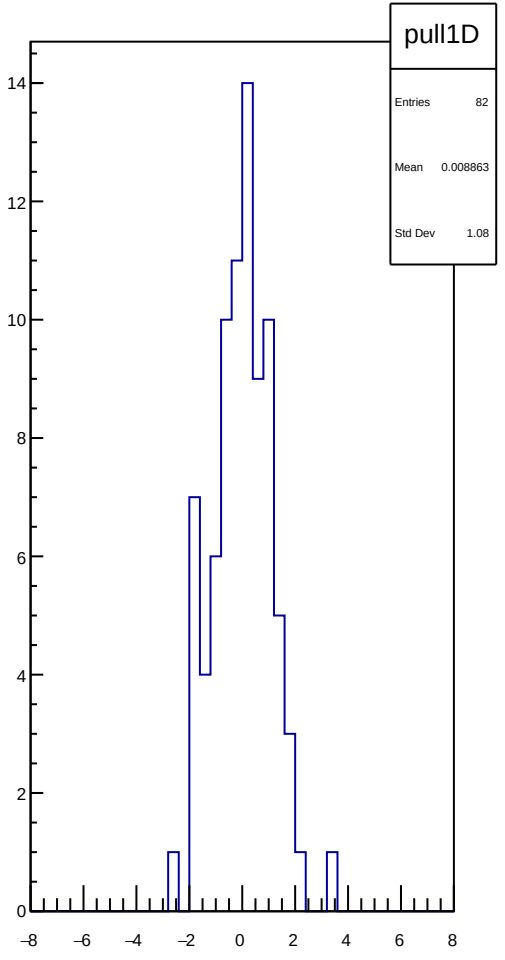

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 738.5 / 81
p0 1734 ± 1.362
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

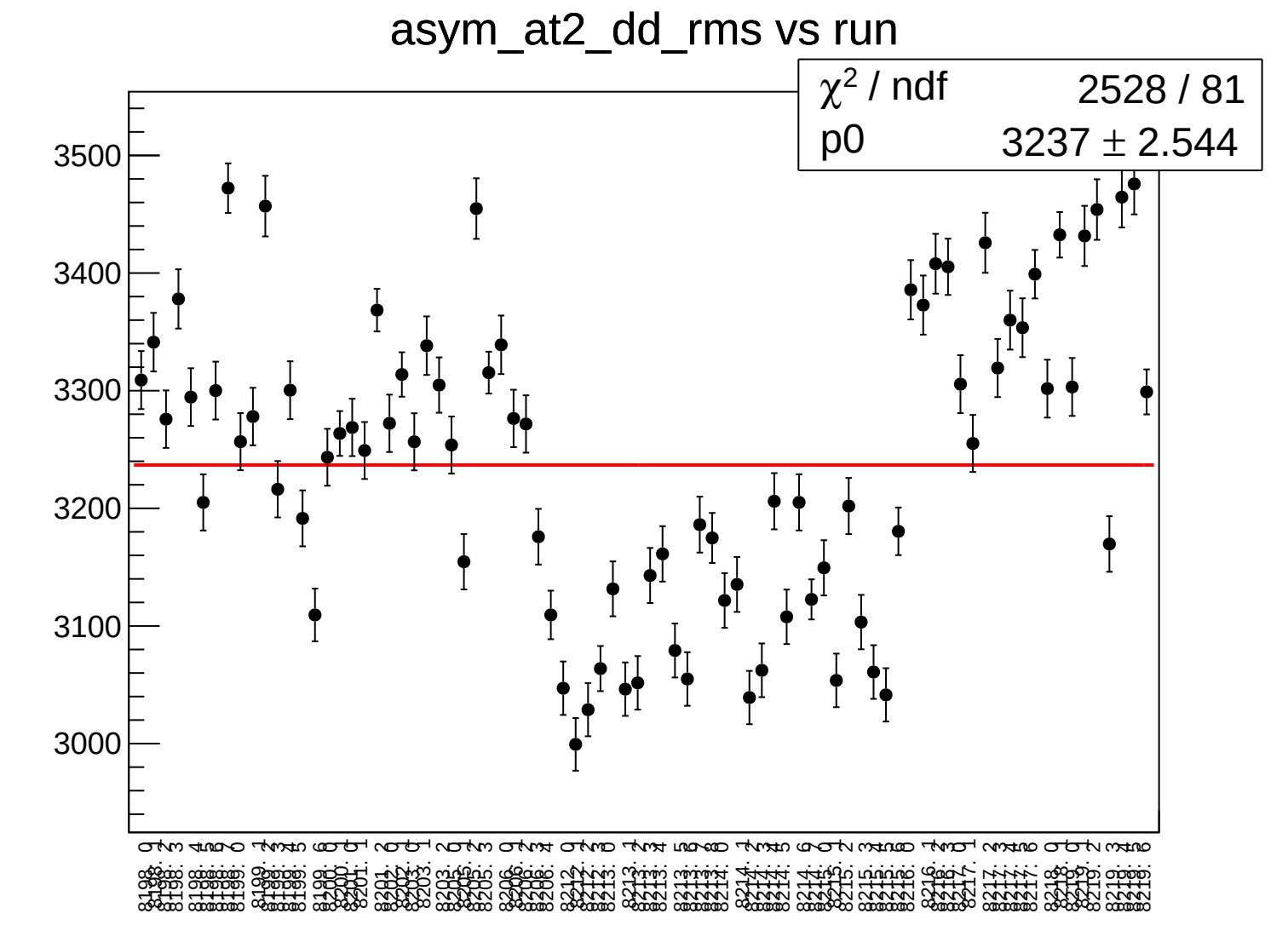

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.59 / 81
p0 2191 ± 3022
100
50
0
−50
−100
pull
Entries 82
Mean −146
Std Dev 0
3
2
1
0
−1
−2
−3

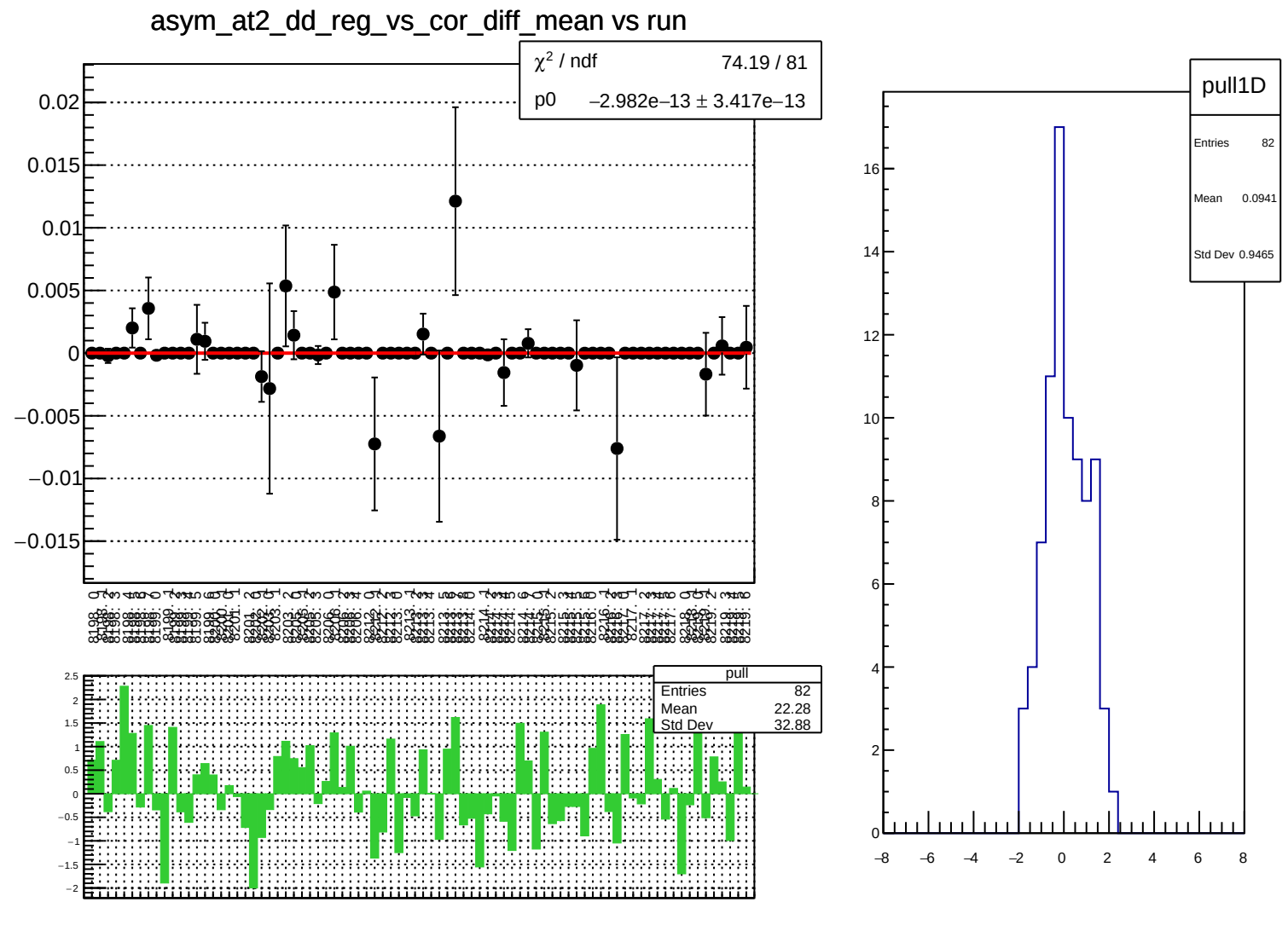

pull1D
Entries 82
Mean −0.009306
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

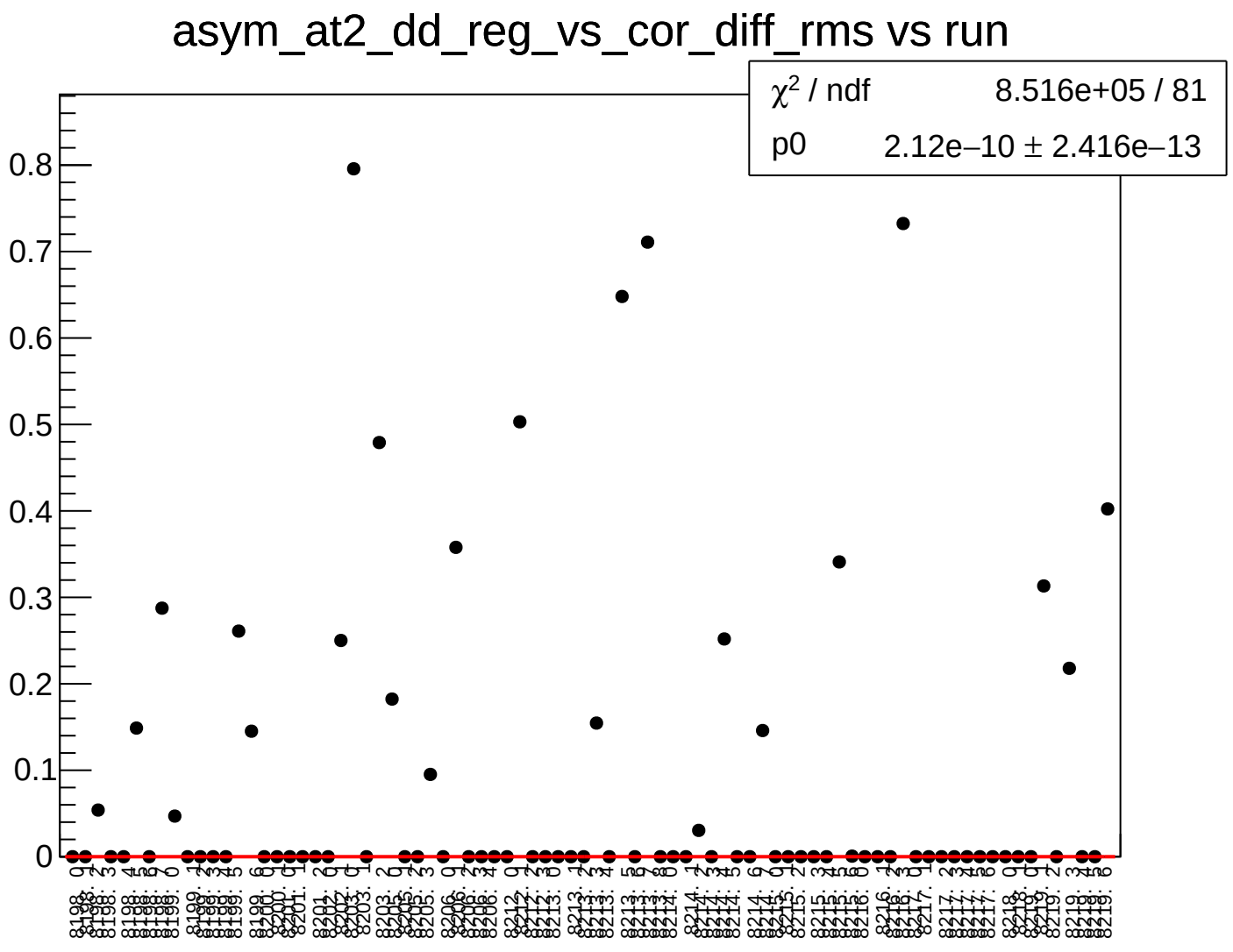

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5149 / 81
p0 2717 ± 2.137
3100
3000
2900
2800
2700
2600
2500
2400

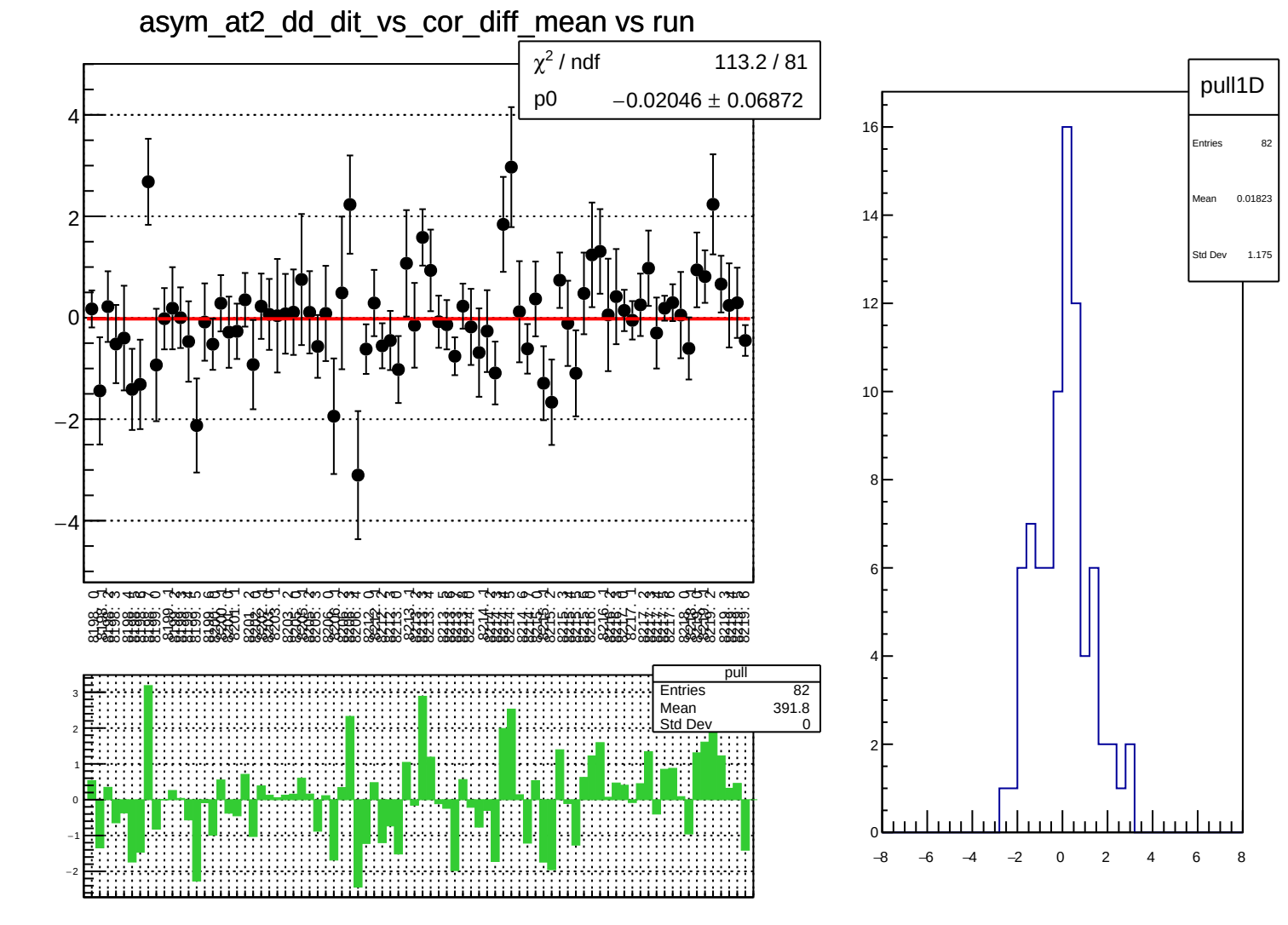

asym_at2_dd_mean vs run
×10^3
χ² / ndf 95.63 / 81
p0 −829.5 ± 3598
150
100
50
0
−50
−100
pull
Entries 82
Mean −238.1
Std Dev 0
3
2
1
0
−1
−2

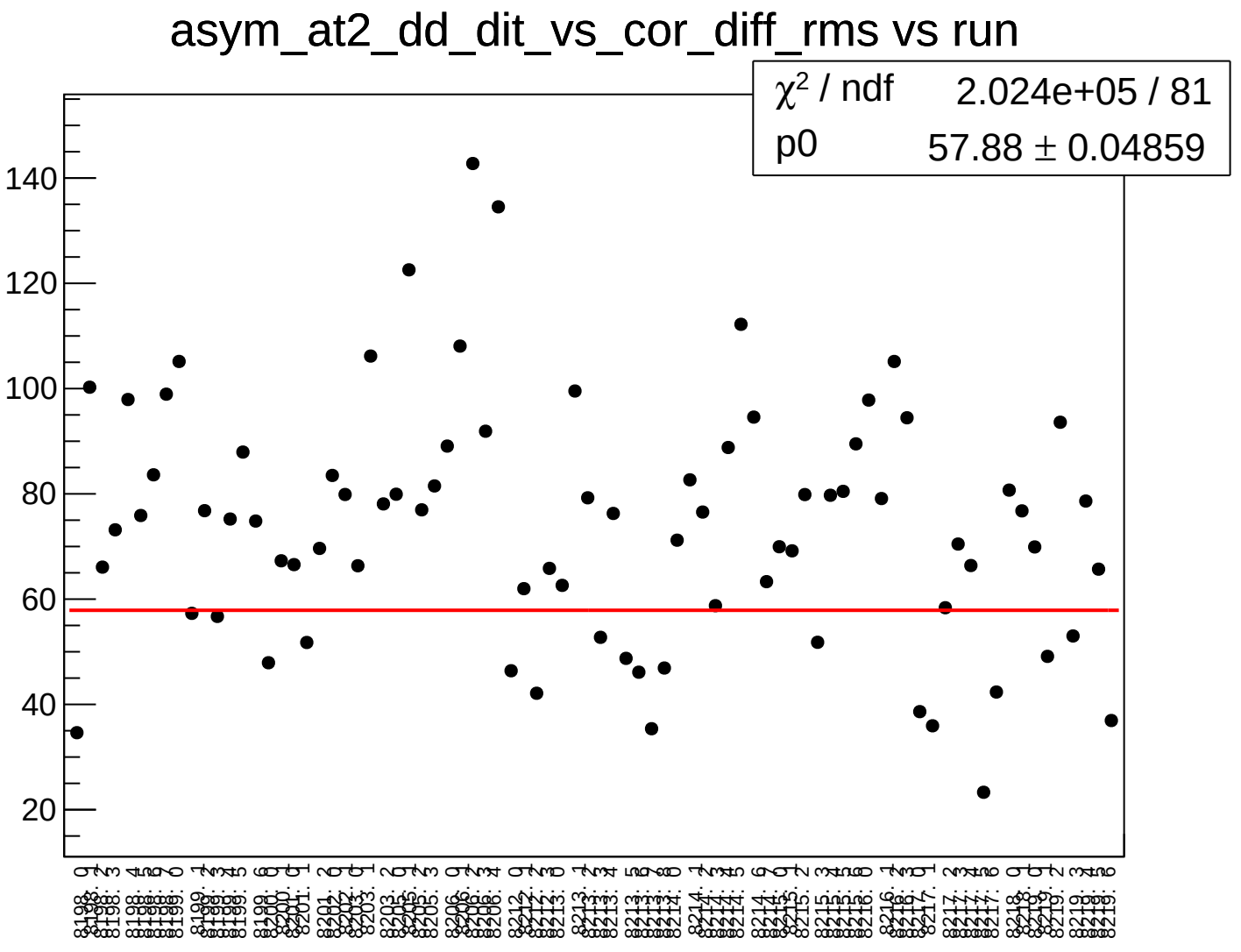

pull1D
Entries 82
Mean 0.008863
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_rms vs run
$\chi^2$ / ndf 2528 / 81
p0 3237 ± 2.544
3500
3400
3300
3200
3100
3000

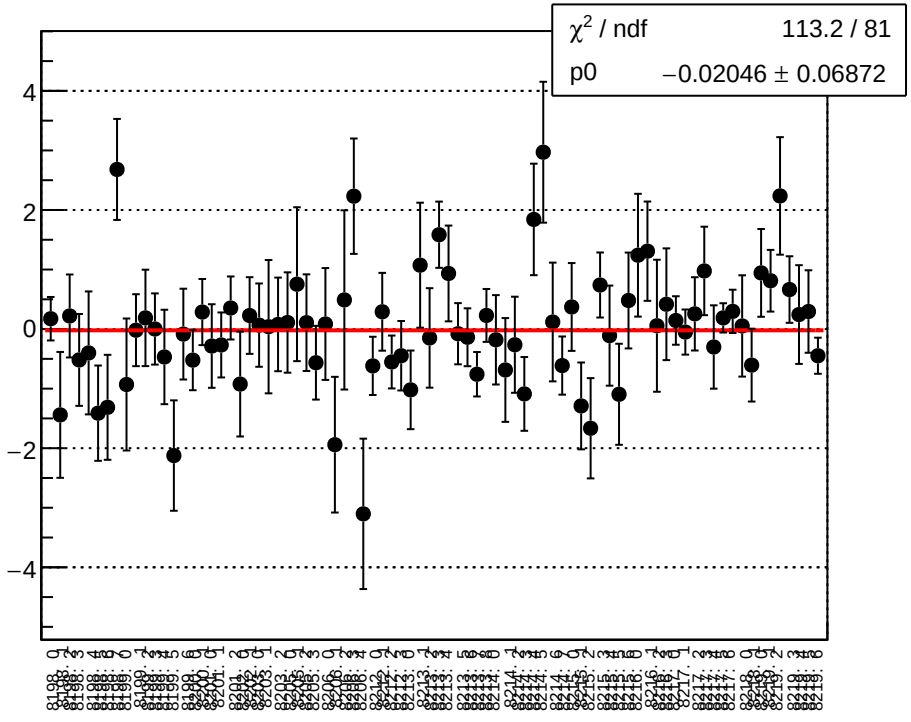

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.19 / 81
p0 −2.982e−13 ± 3.417e−13
pull
Entries 82
Mean 22.28
Std Dev 32.88
pull1D
Entries 82
Mean 0.0941
Std Dev 0.9465

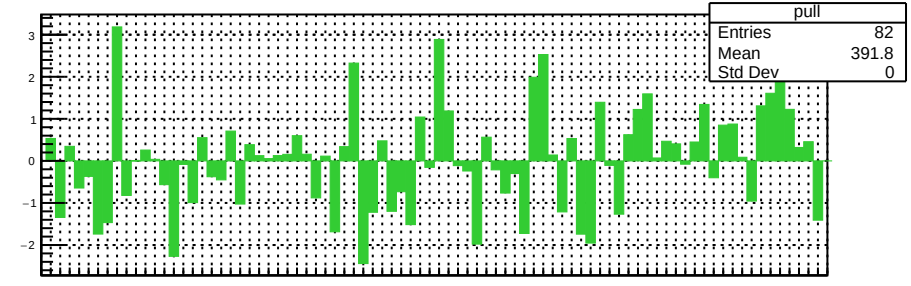

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.516e+05 / 81
p0 2.12e−10 ± 2.416e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

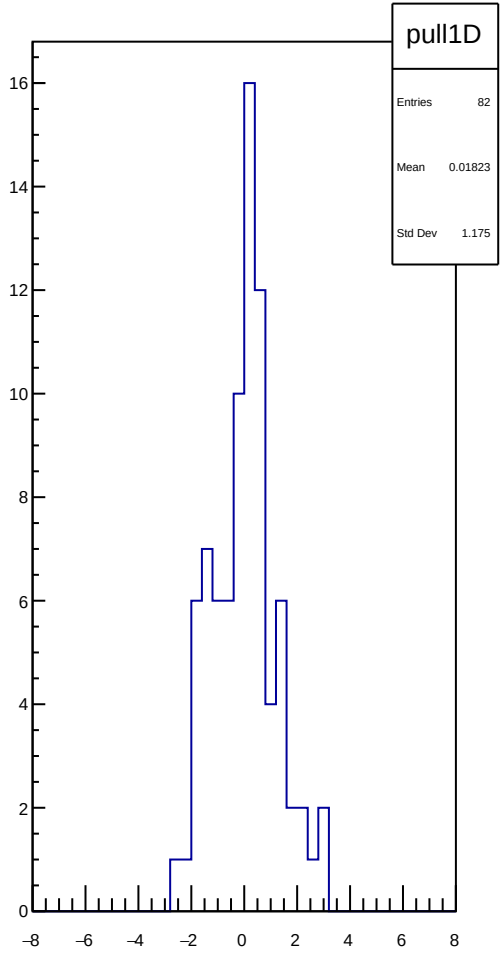

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.2 / 81
p0 −0.02046 ± 0.06872
pull
Entries 82
Mean 391.8
Std Dev 0
pull1D
Entries 82
Mean 0.01823
Std Dev 1.175

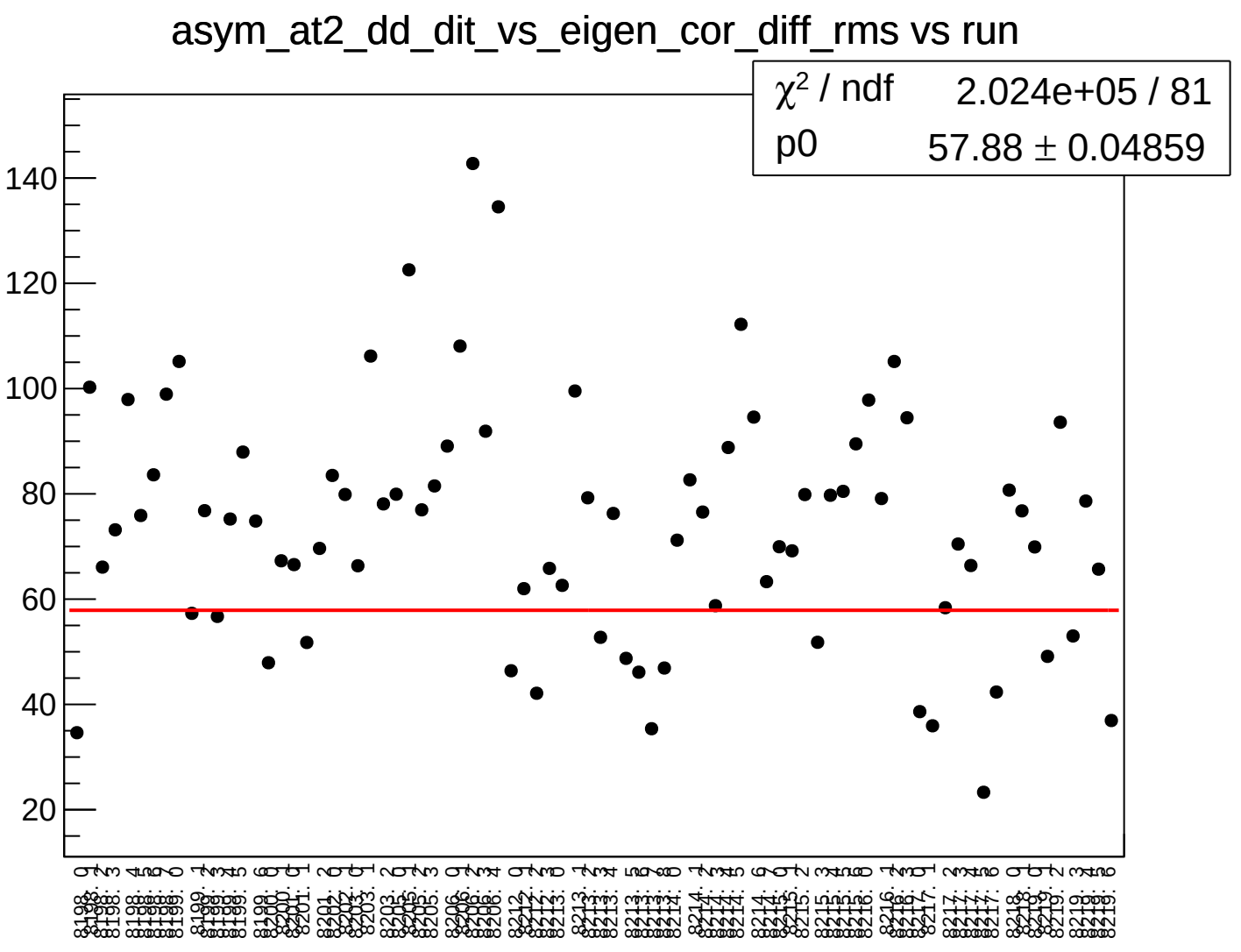

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.024e+05 / 81
p0 57.88 ± 0.04859
140
120
100
80
60
40
20

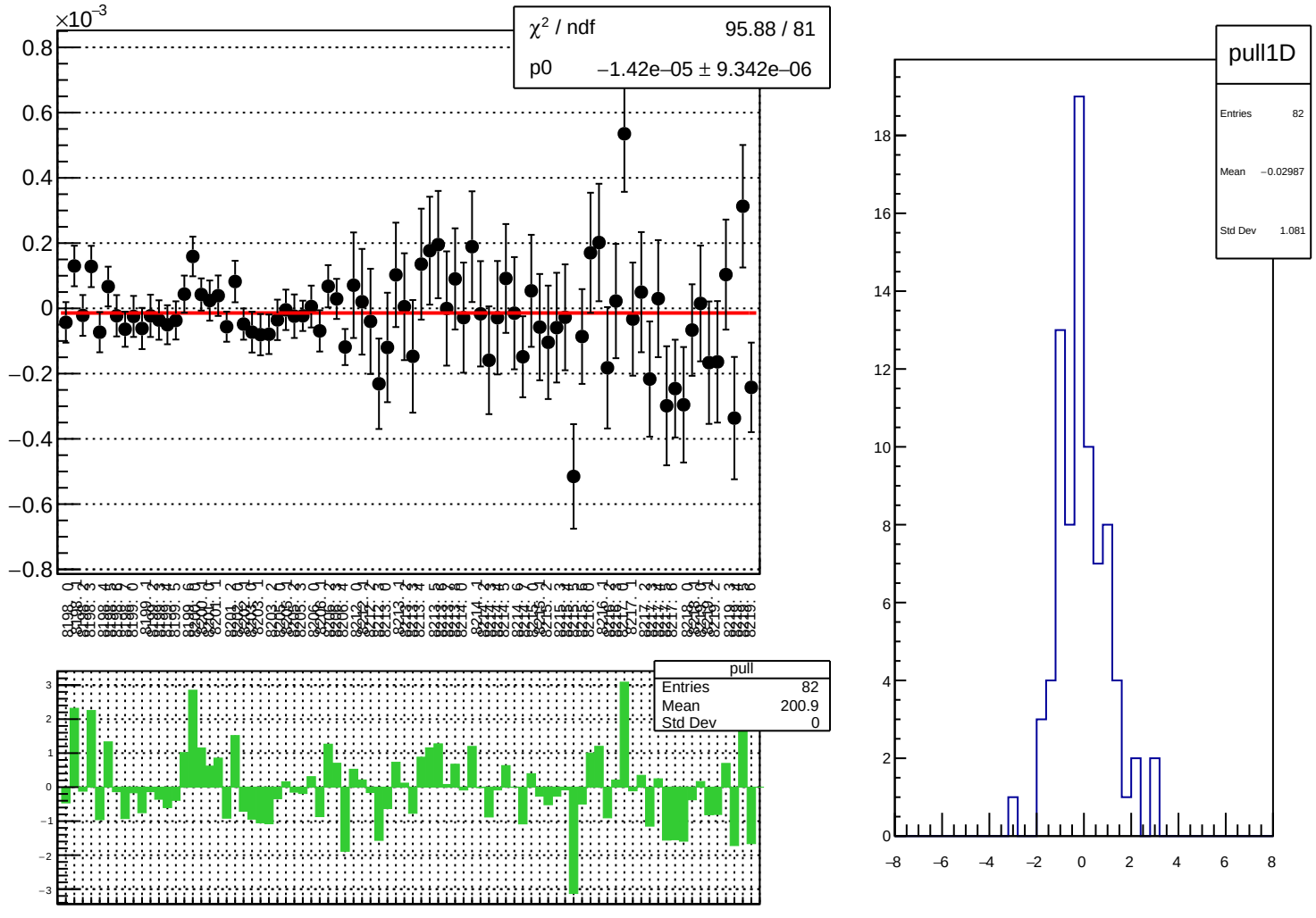
asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run

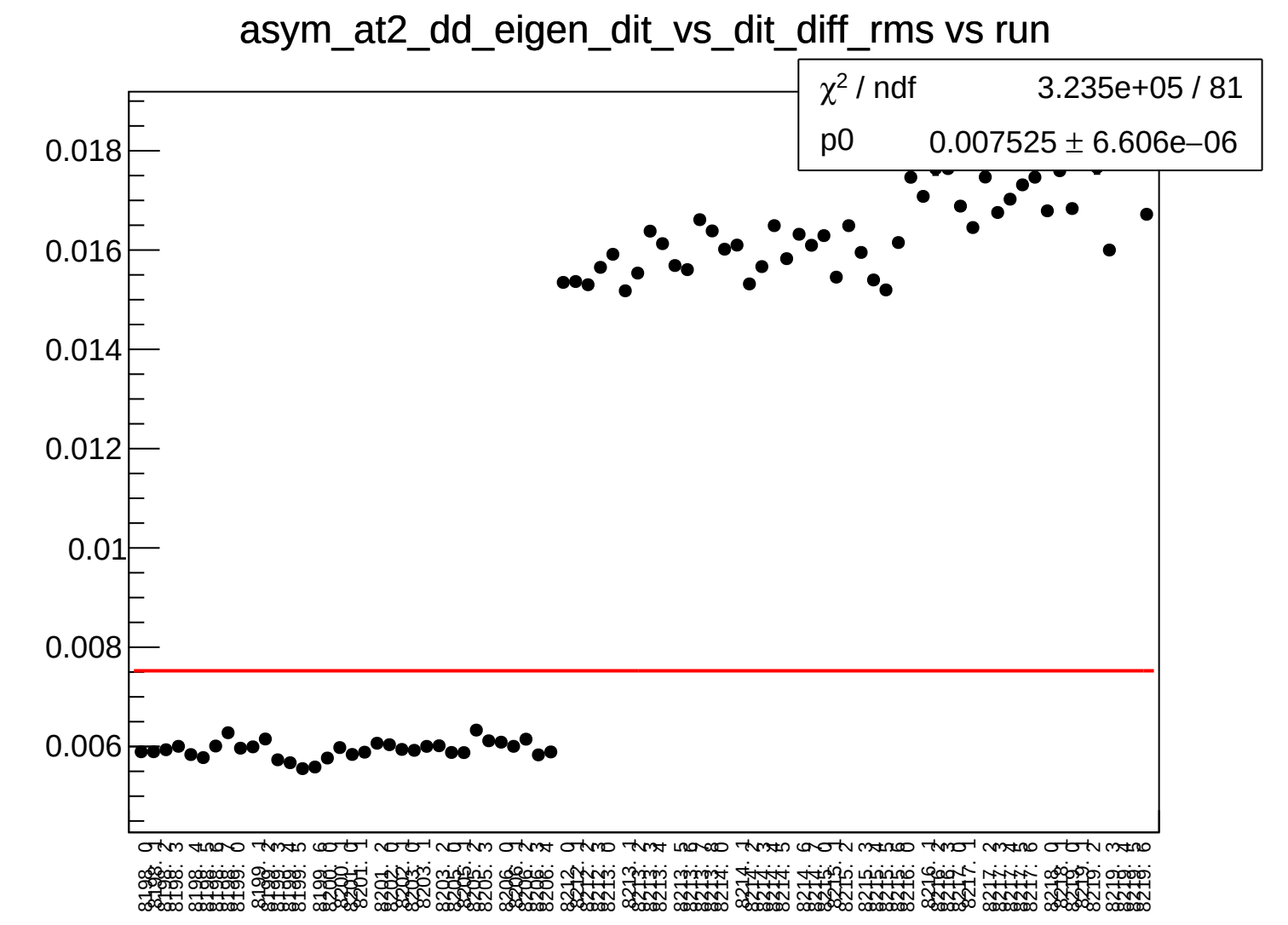


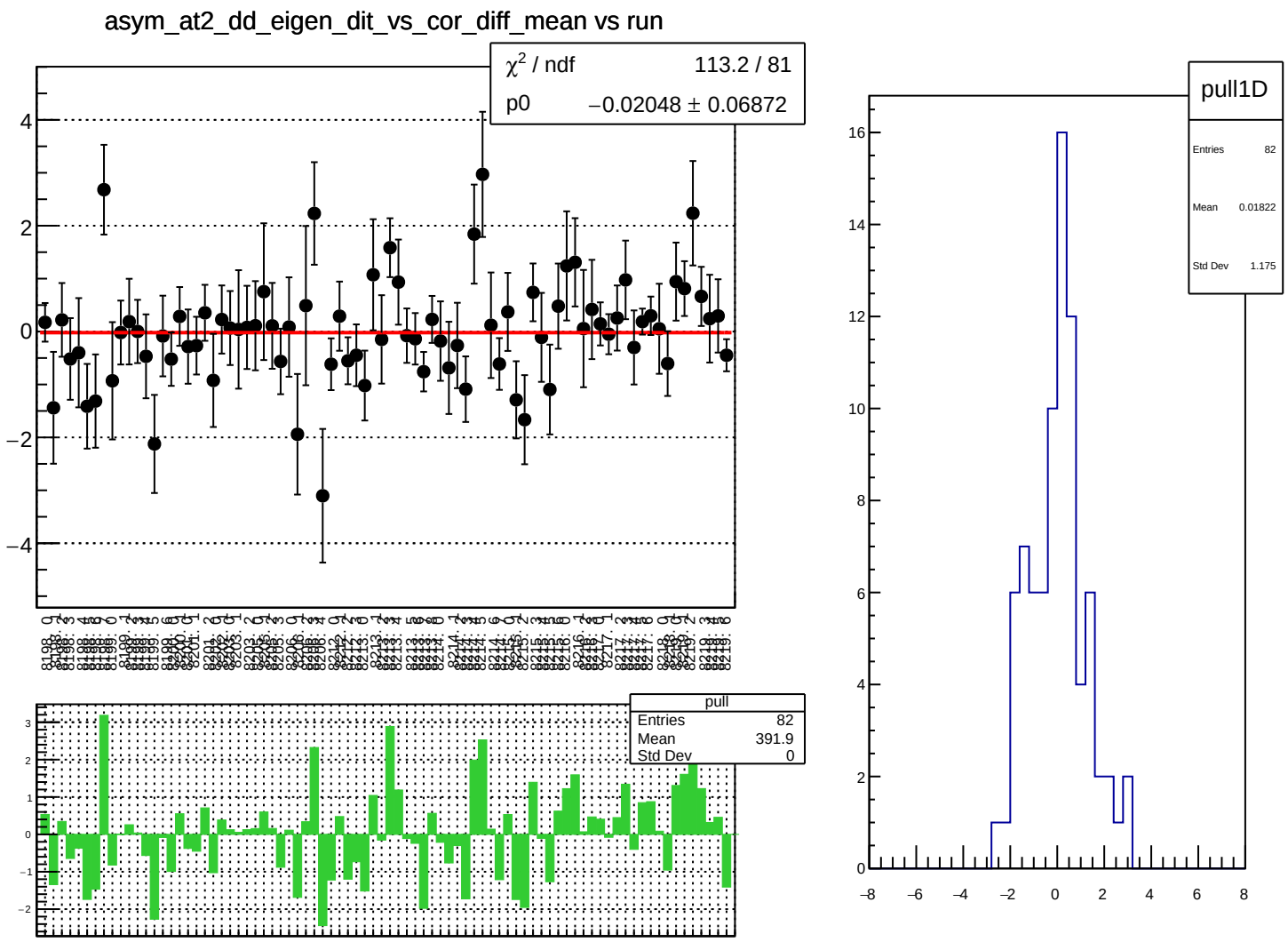



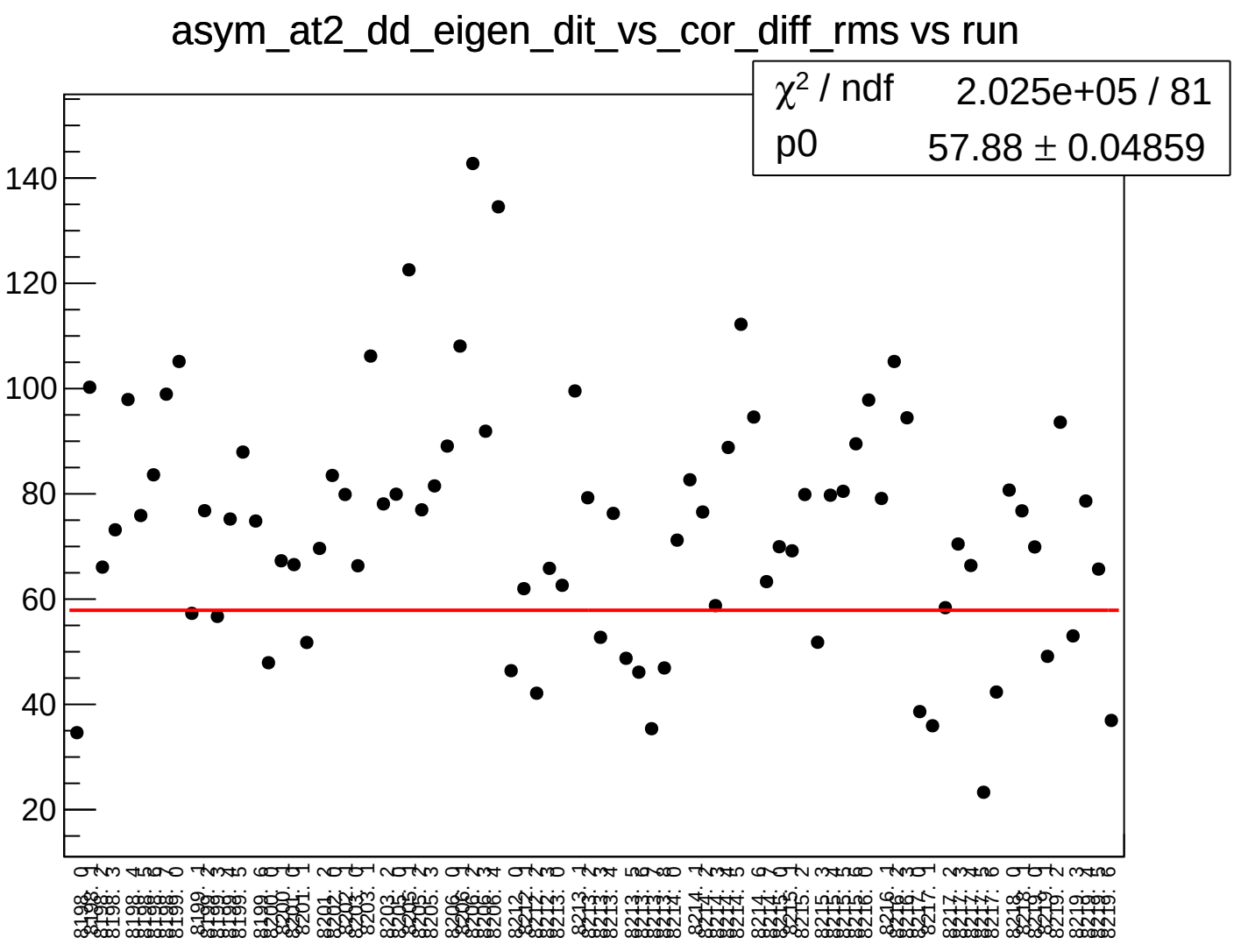



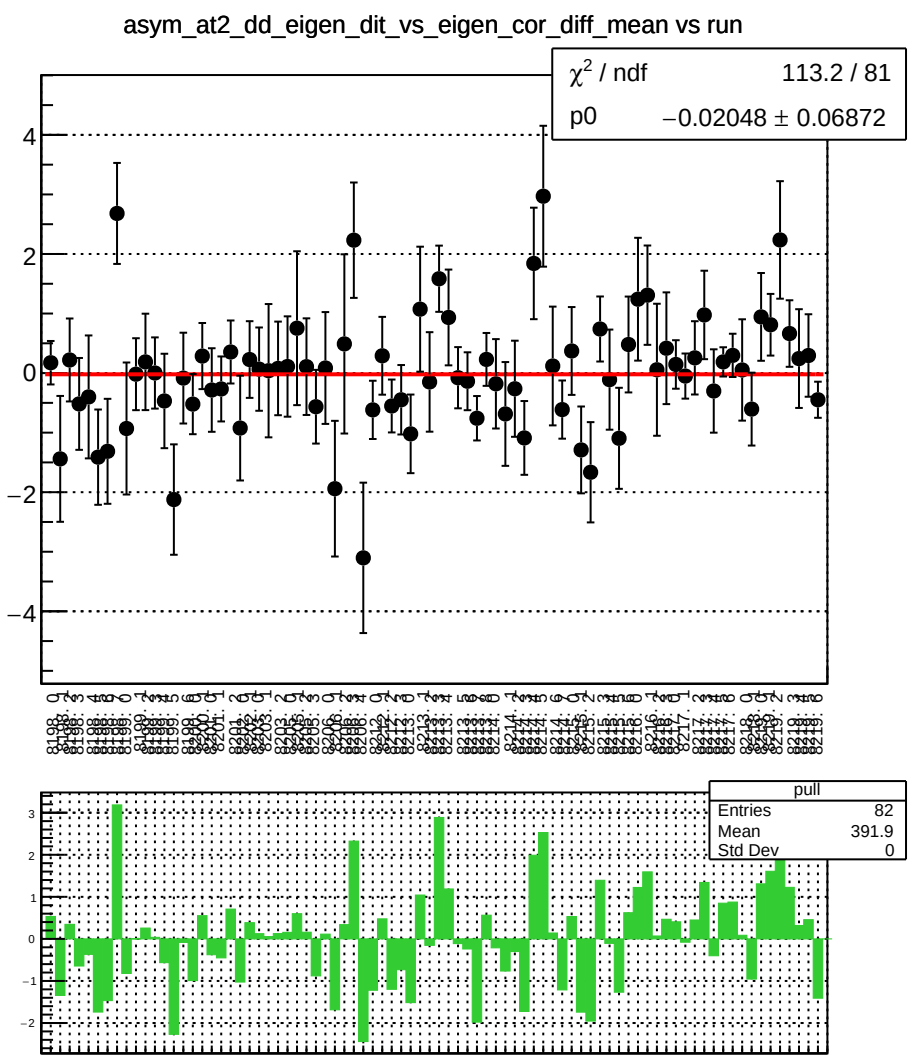

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.024e+05 / 81
p0 57.88 ± 0.04859
140
120
100
80
60
40
20

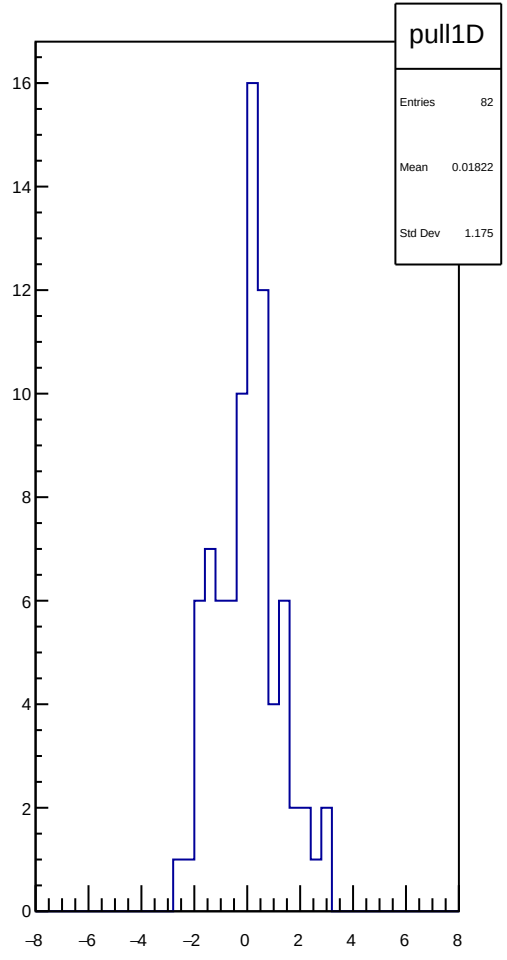

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.88 / 81
p0 −1.42e−05 ± 9.342e−06
pull
Entries 82
Mean 200.9
Std Dev 0
pull1D
Entries 82
Mean −0.02987
Std Dev 1.081

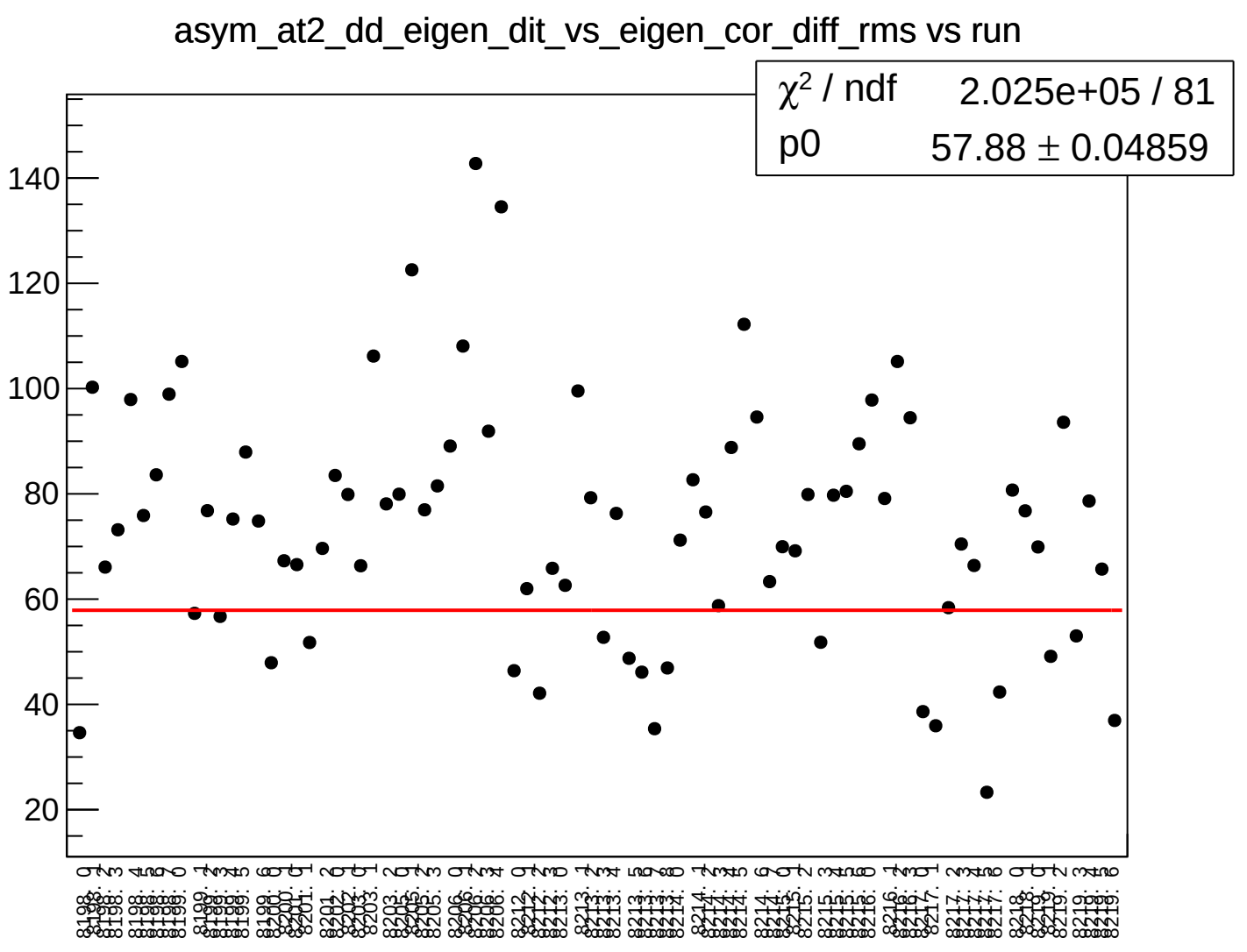

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.235e+05 / 81
p0 0.007525 ± 6.606e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

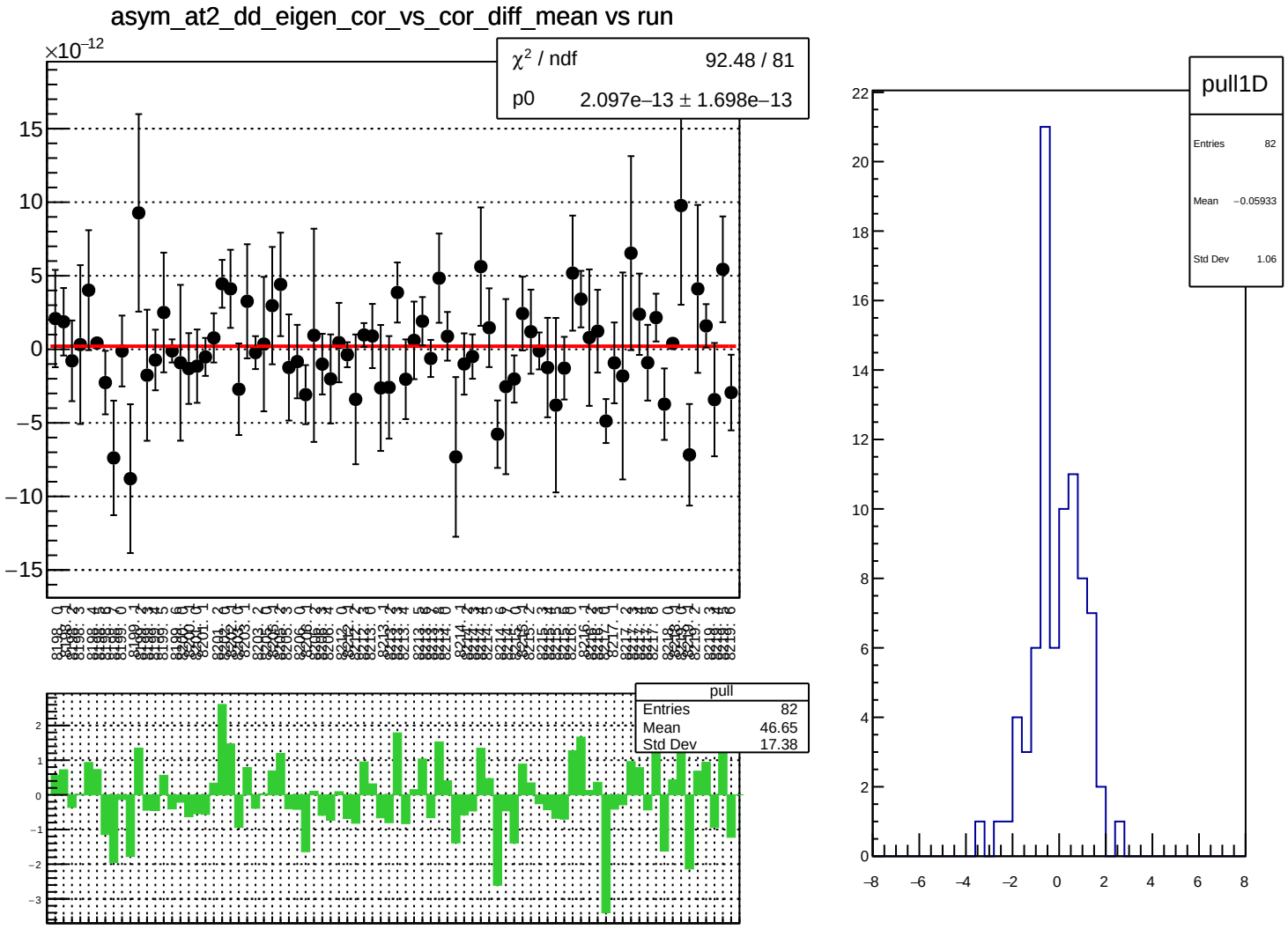

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.2 / 81
p0 −0.02048 ± 0.06872
pull
Entries 82
Mean 391.9
Std Dev 0
pull1D
Entries 82
Mean 0.01822
Std Dev 1.175

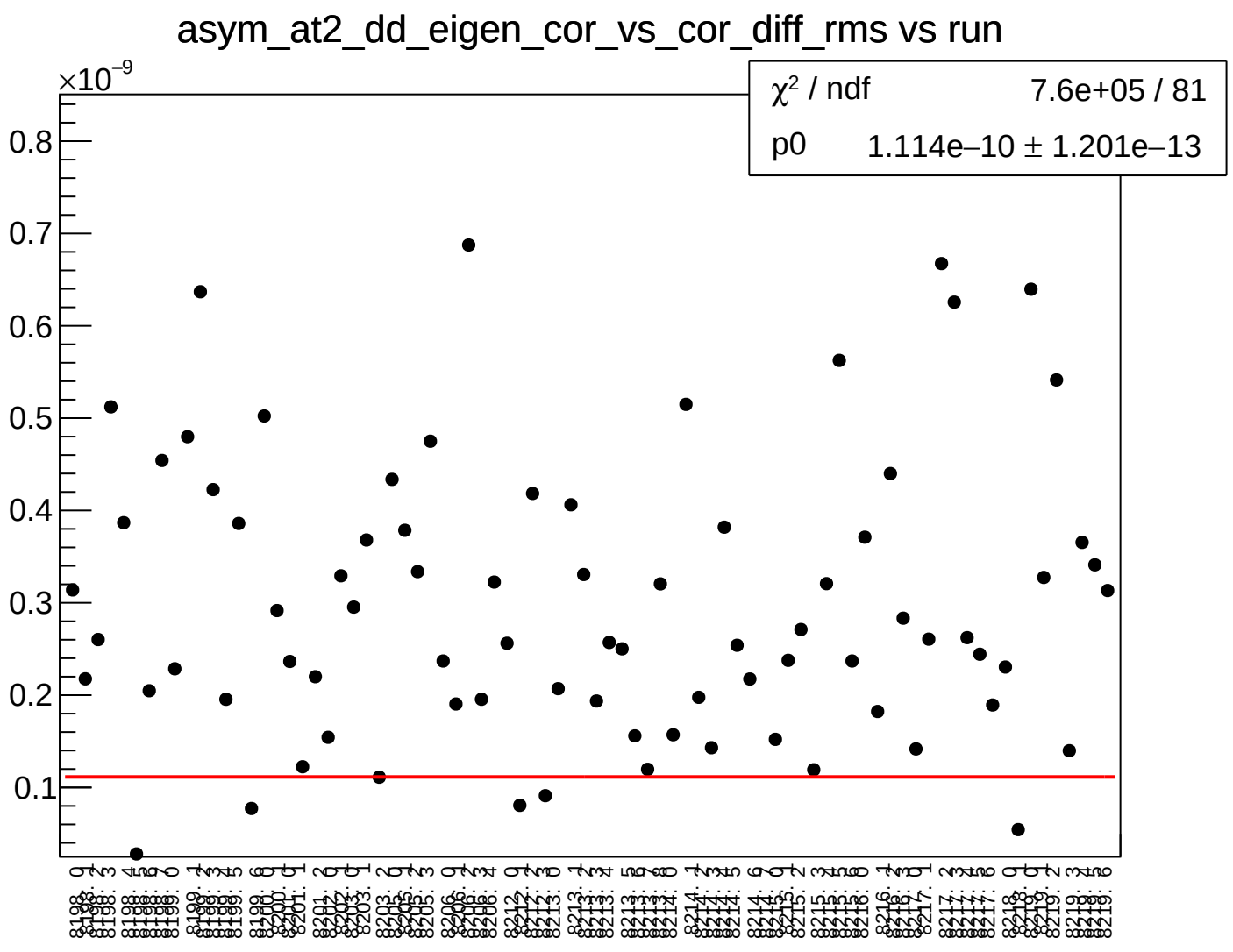

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 81
p0 57.88 ± 0.04859
140
120
100
80
60
40
20

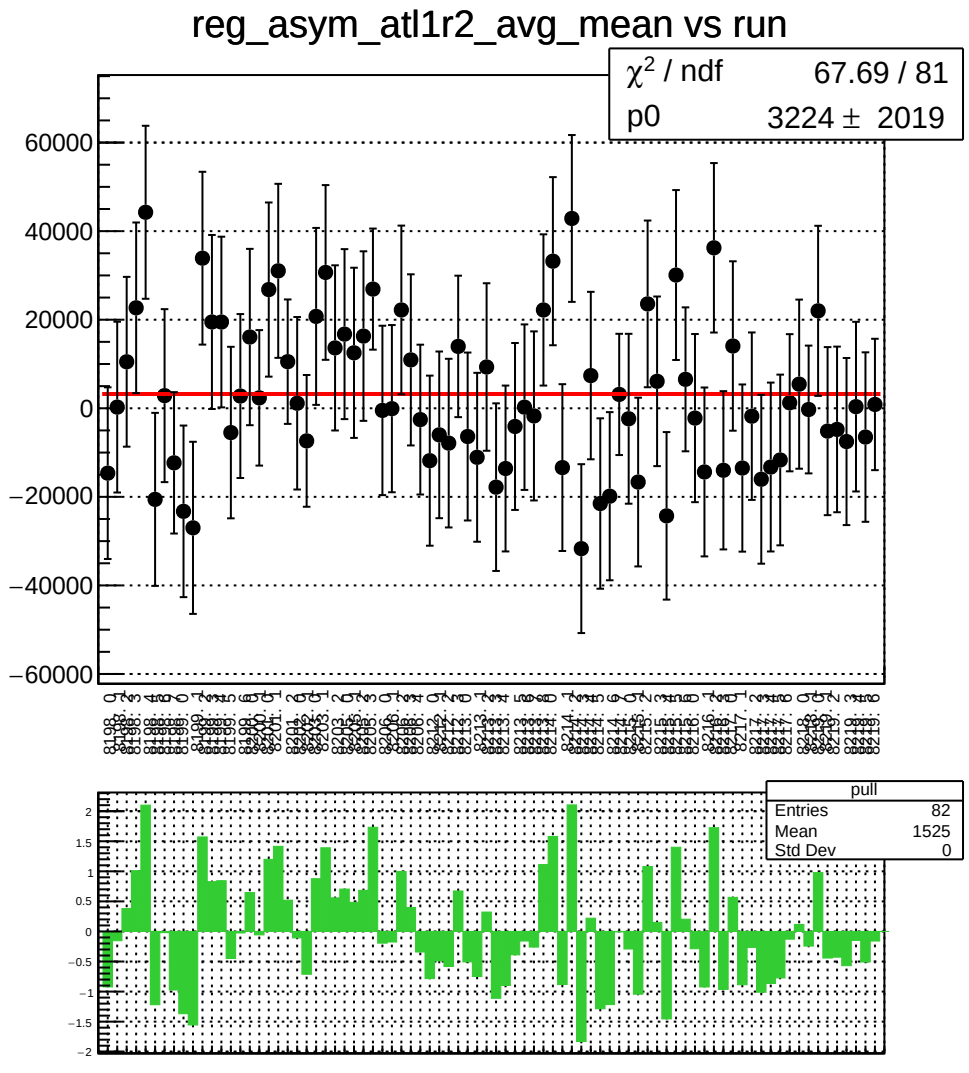

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.2 / 81
p0 −0.02048 ± 0.06872
pull
Entries 82
Mean 391.9
Std Dev 0

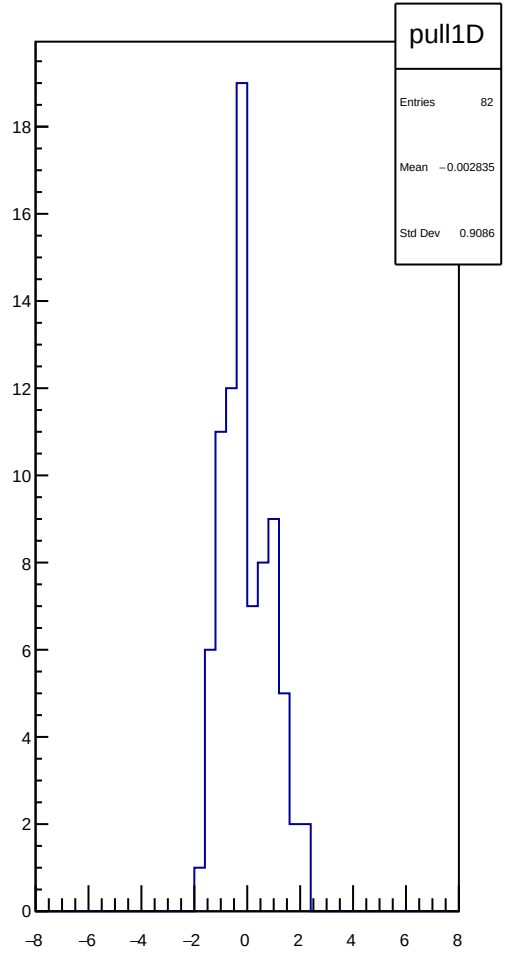

pull1D
Entries 82
Mean 0.01822
Std Dev 1.175

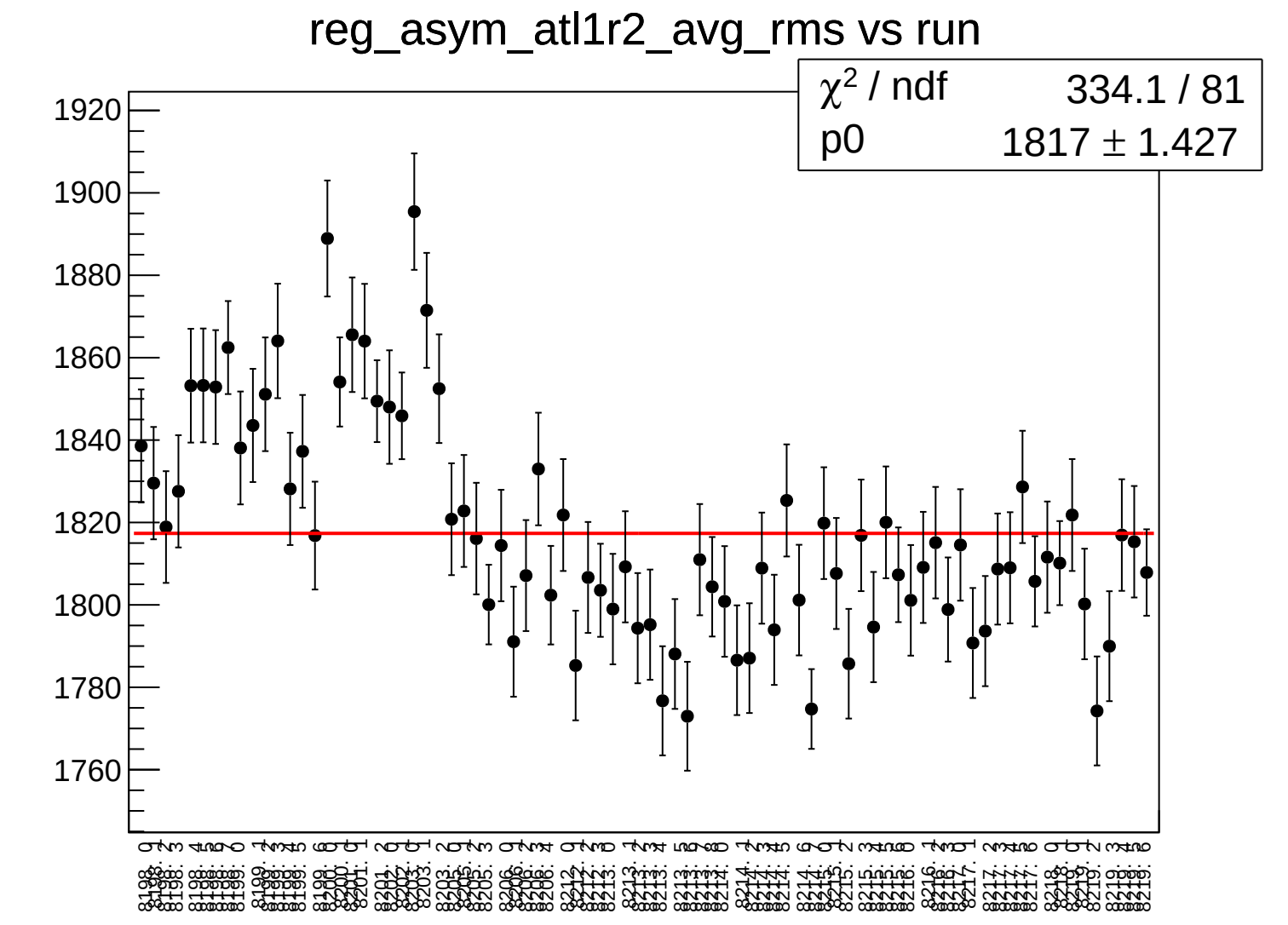

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 81
p0 57.88 ± 0.04859
140
120
100
80
60
40
20

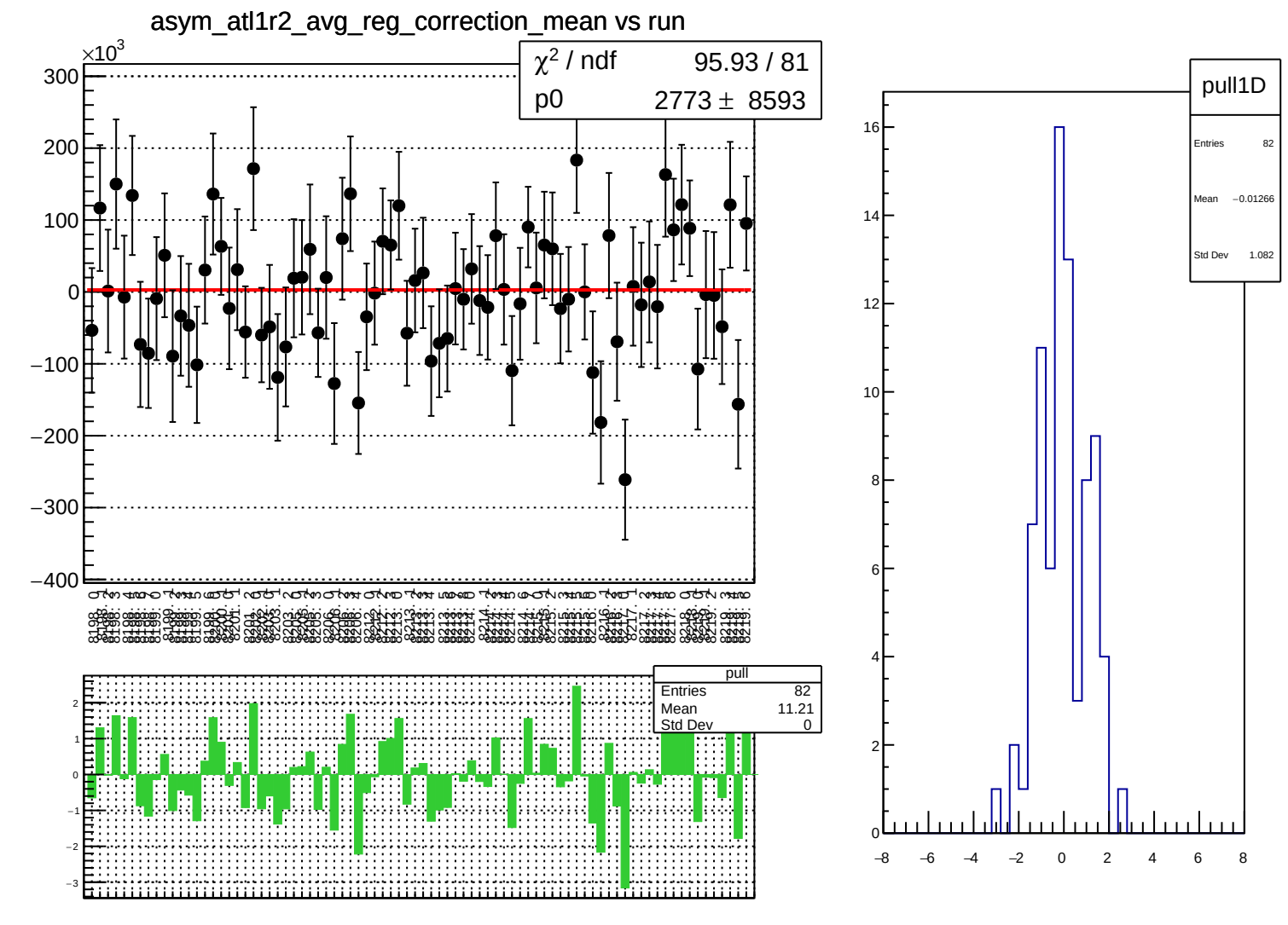

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.48 / 81
p0 2.097e−13 ± 1.698e−13
pull
Entries 82
Mean 46.65
Std Dev 17.38
pull1D
Entries 82
Mean −0.05933
Std Dev 1.06

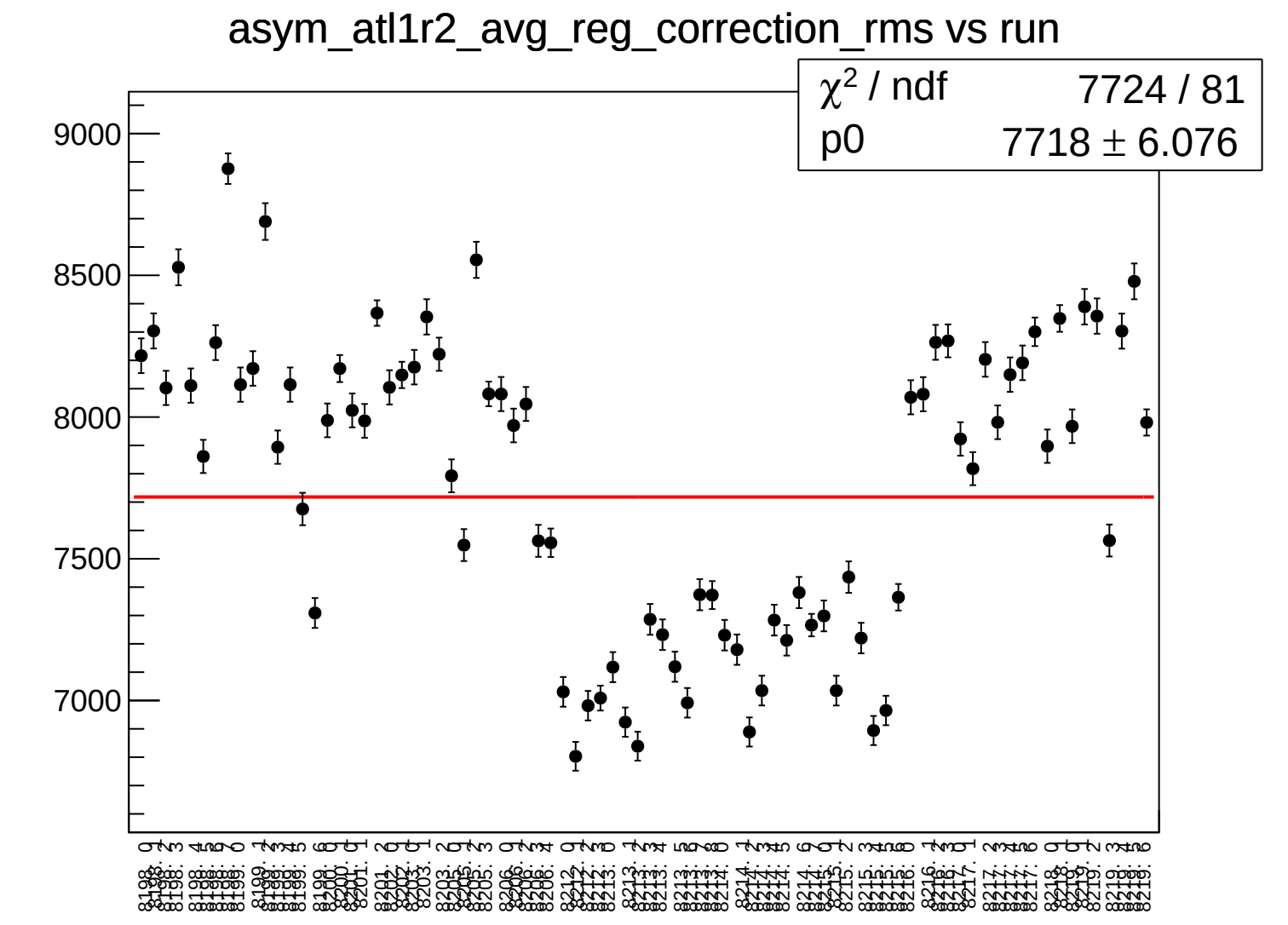

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.6e+05 / 81
p0 1.114e−10 ± 1.201e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

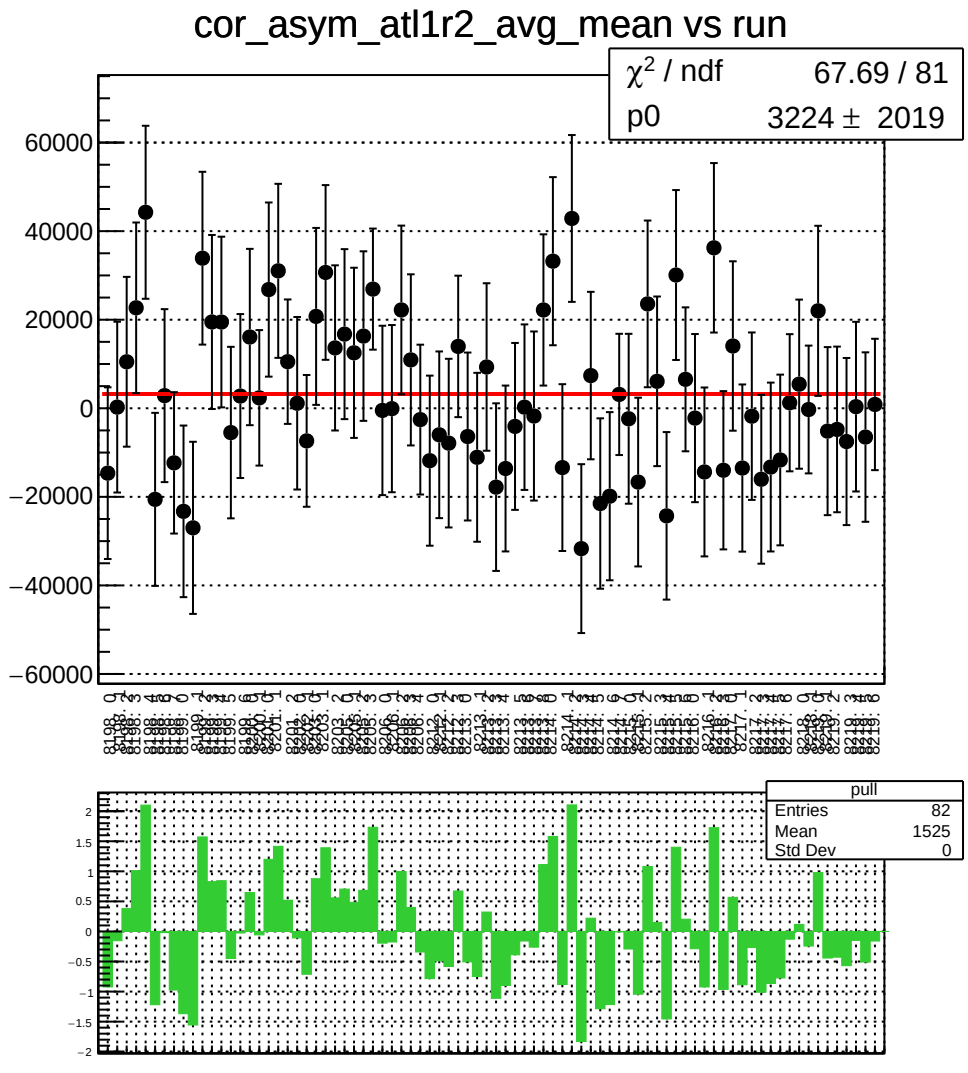

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 67.69 / 81
p0 3224 ± 2019
pull
Entries 82
Mean 1525
Std Dev 0

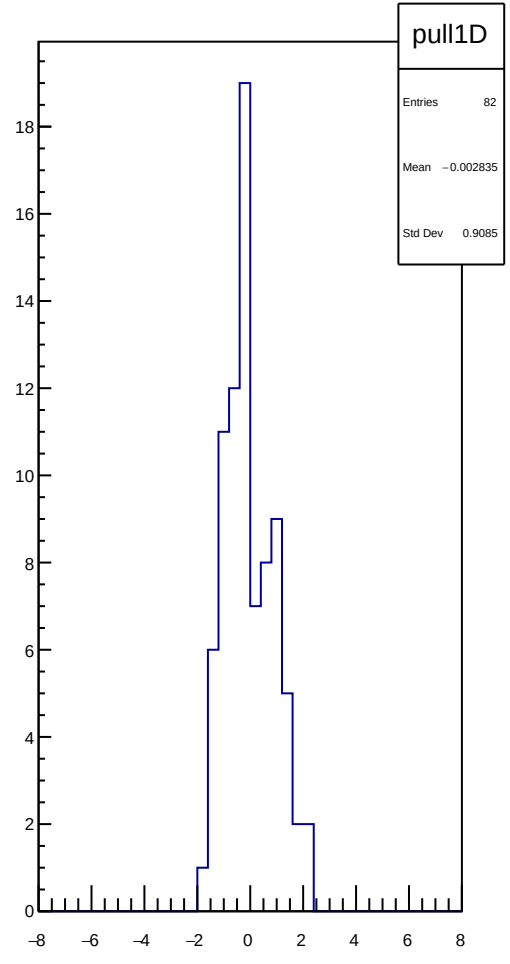

pull1D
Entries 82
Mean −0.002835
Std Dev 0.9086

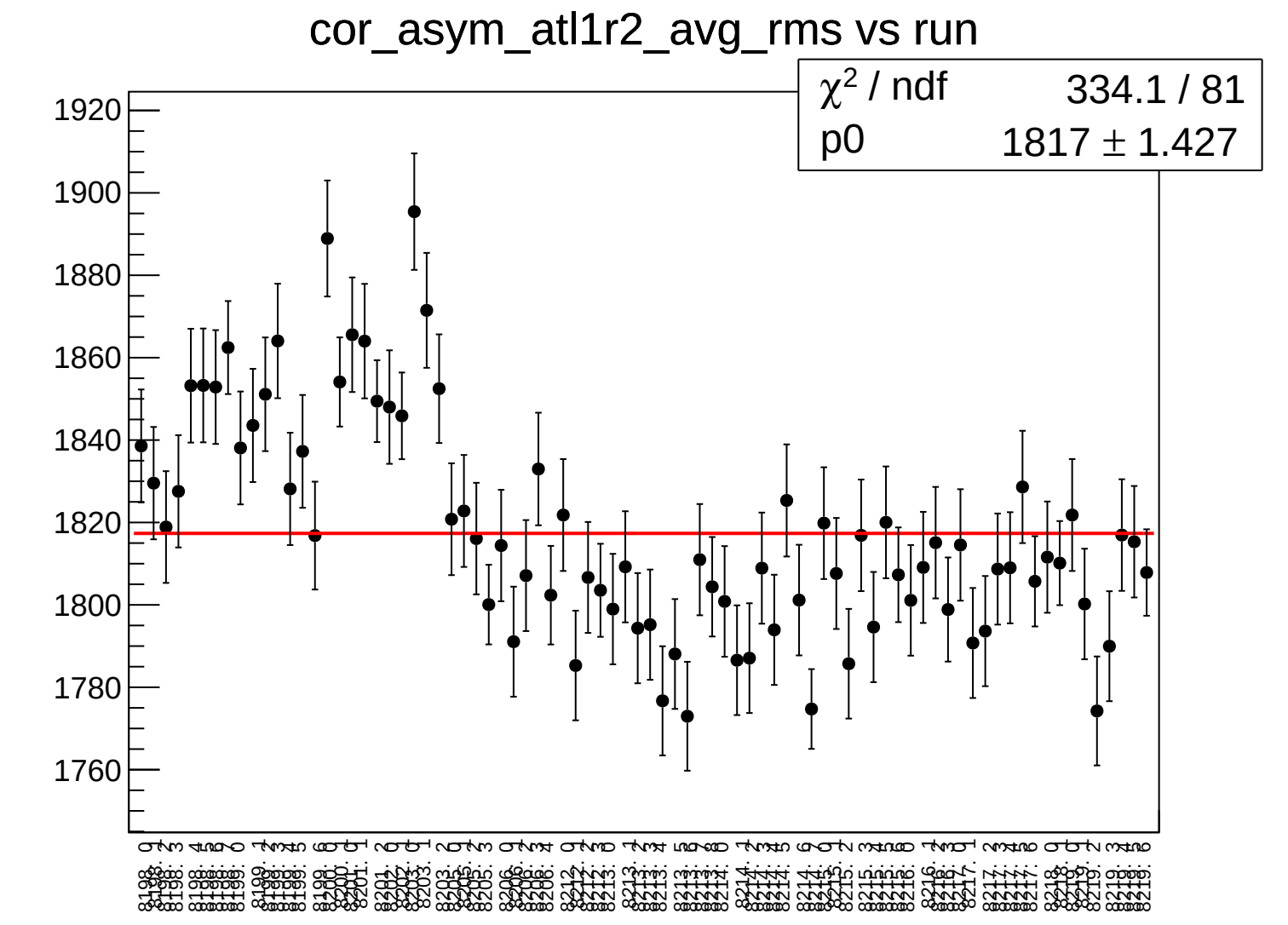

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 334.1 / 81
p0 1817 ± 1.427
1920
1900
1880
1860
1840
1820
1800
1780
1760

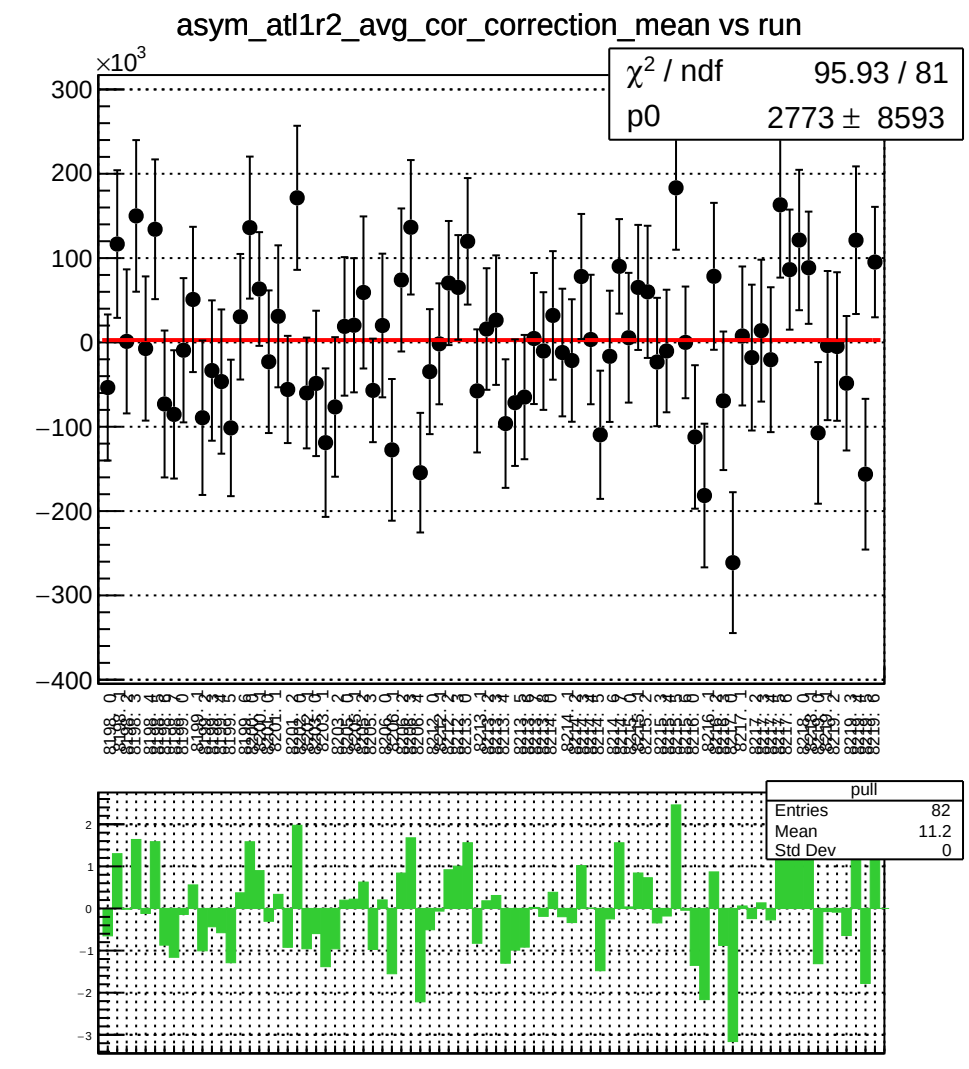

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.93 / 81
p0 2773 ± 8593
pull
Entries 82
Mean 11.21
Std Dev 0
pull1D
Entries 82
Mean −0.01266
Std Dev 1.082

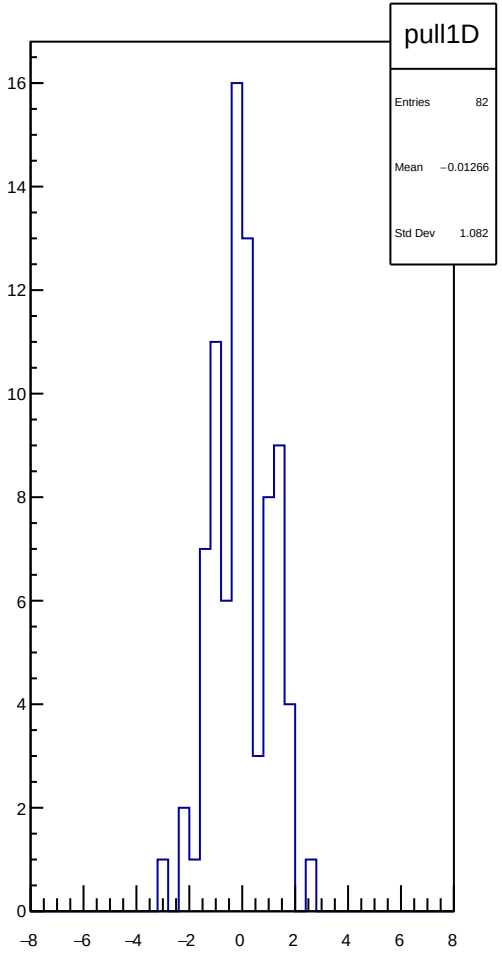

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 7724 / 81
p0 7718 ± 6.076
9000
8500
8000
7500
7000

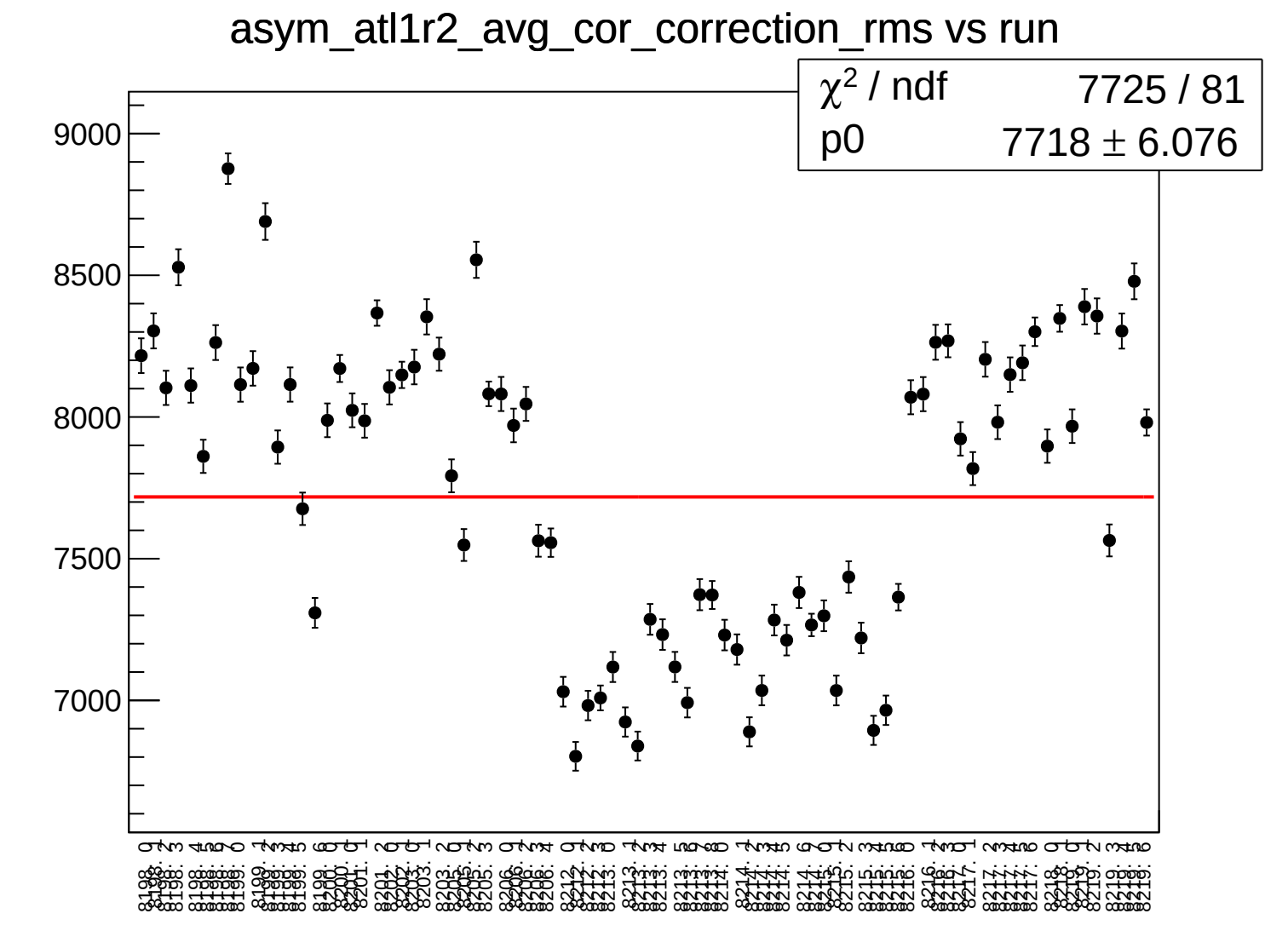

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 67.69 / 81
p0 3224 ± 2019
pull
Entries 82
Mean 1525
Std Dev 0

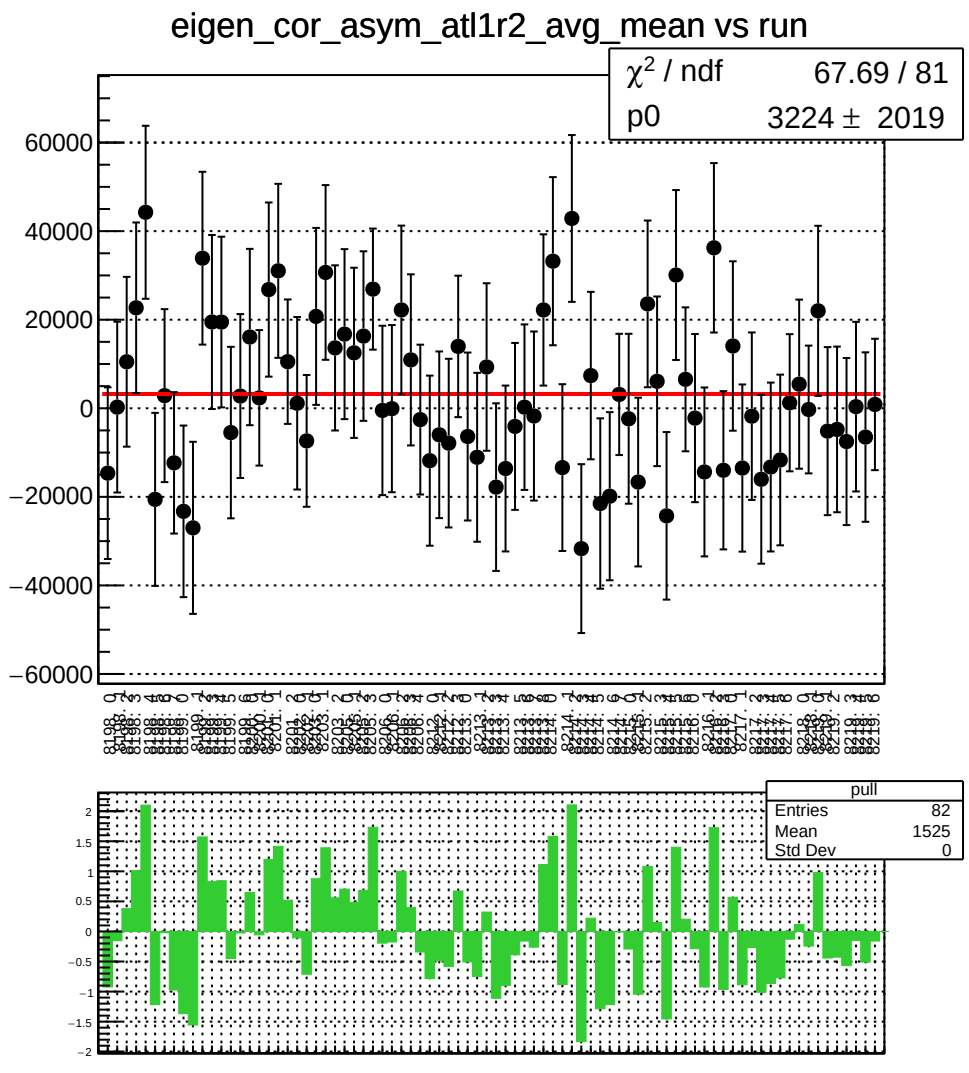

pull1D
Entries 82
Mean −0.002835
Std Dev 0.9085

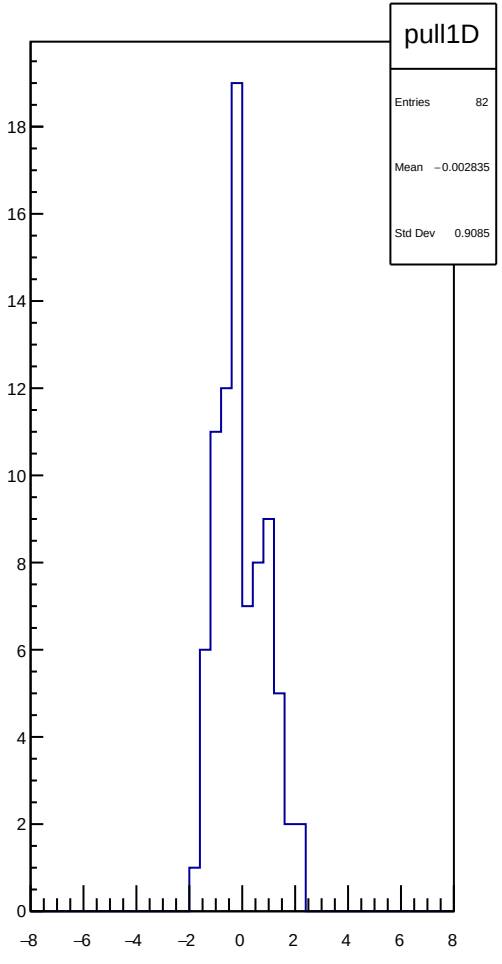

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 334.1 / 81
p0 1817 ± 1.427
1920
1900
1880
1860
1840
1820
1800
1780
1760

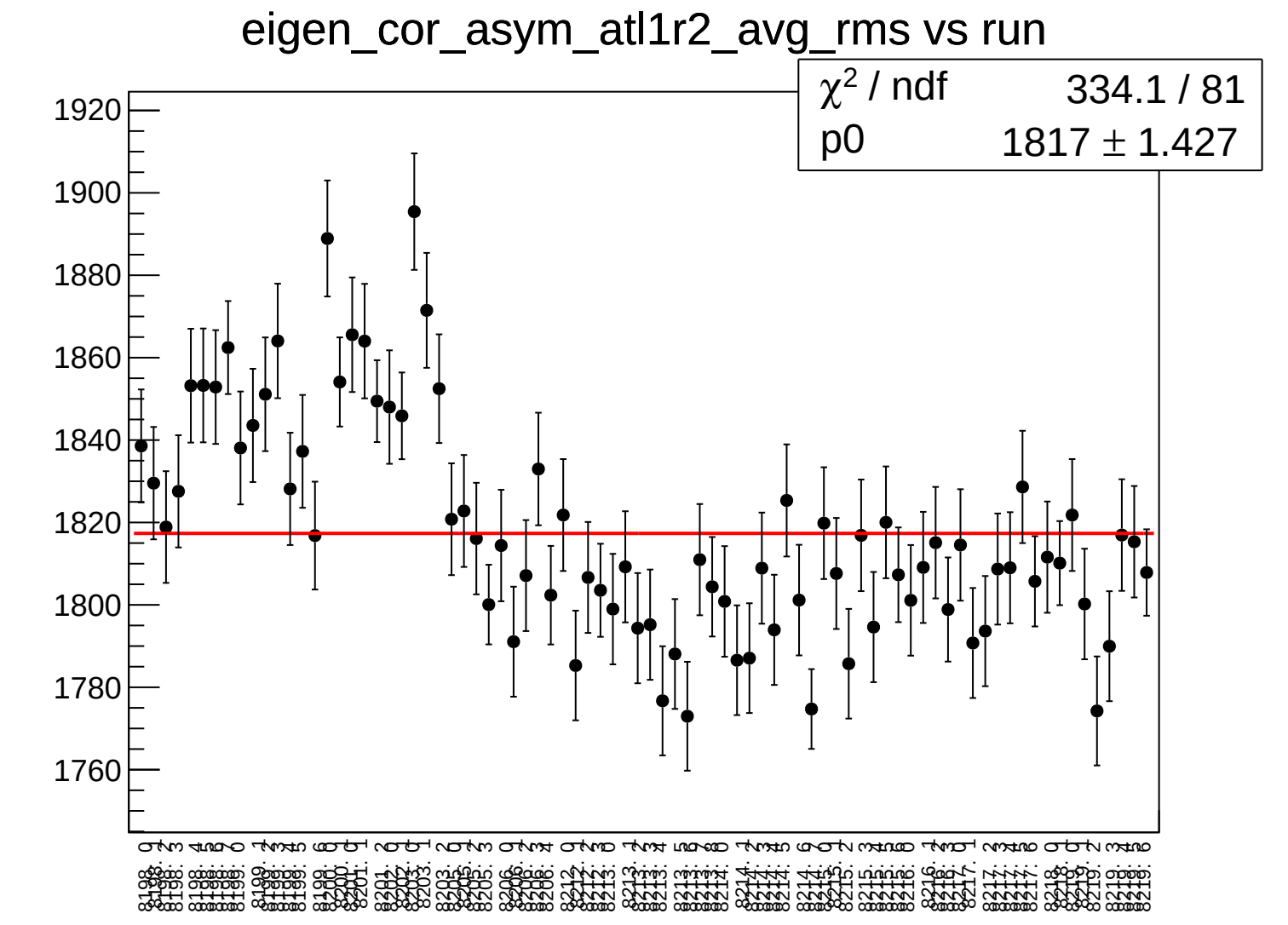

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.93 / 81
p0 2773 ± 8593
pull
Entries 82
Mean 11.2
Std Dev 0

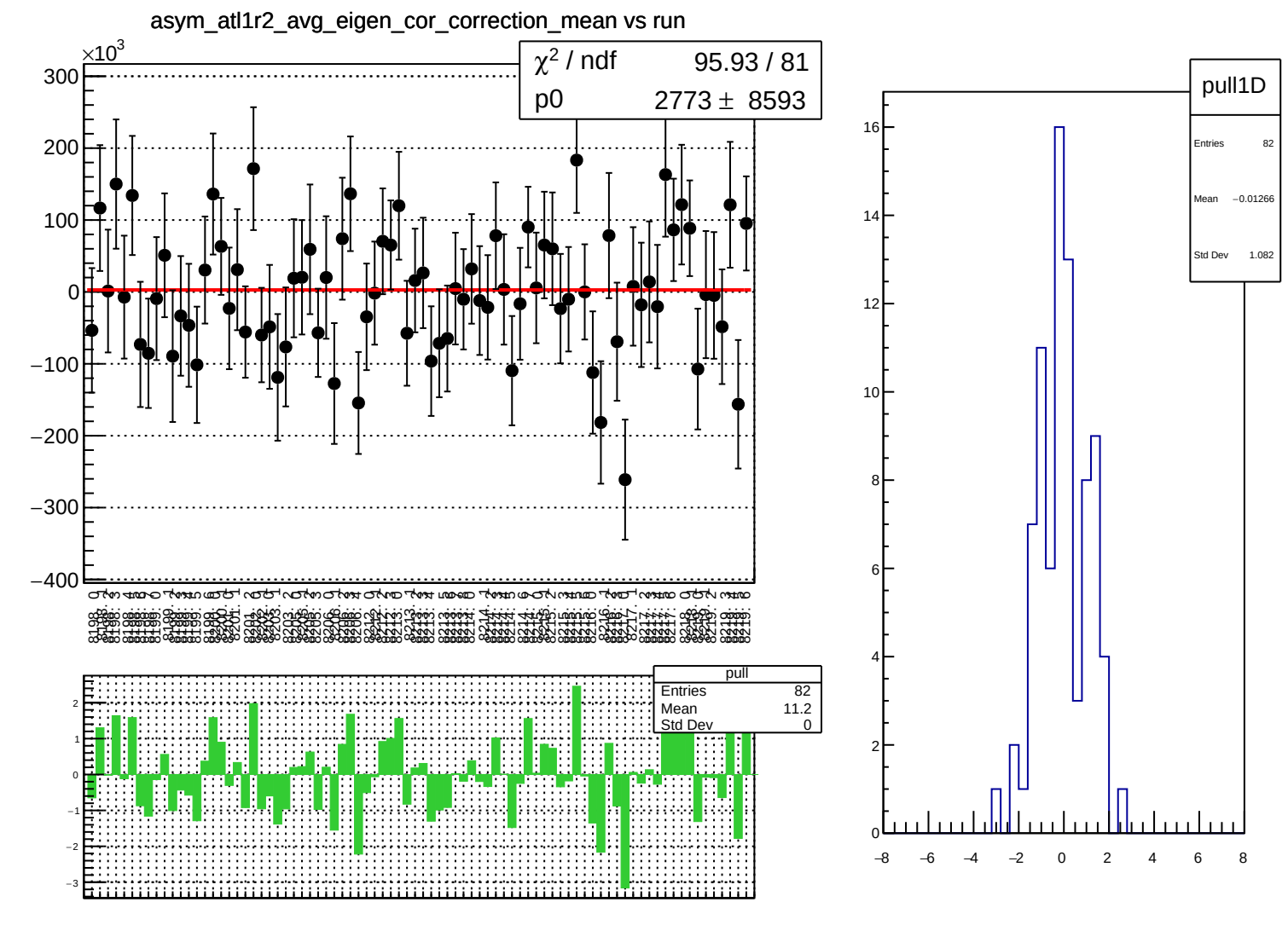

pull1D
Entries 82
Mean −0.01266
Std Dev 1.082

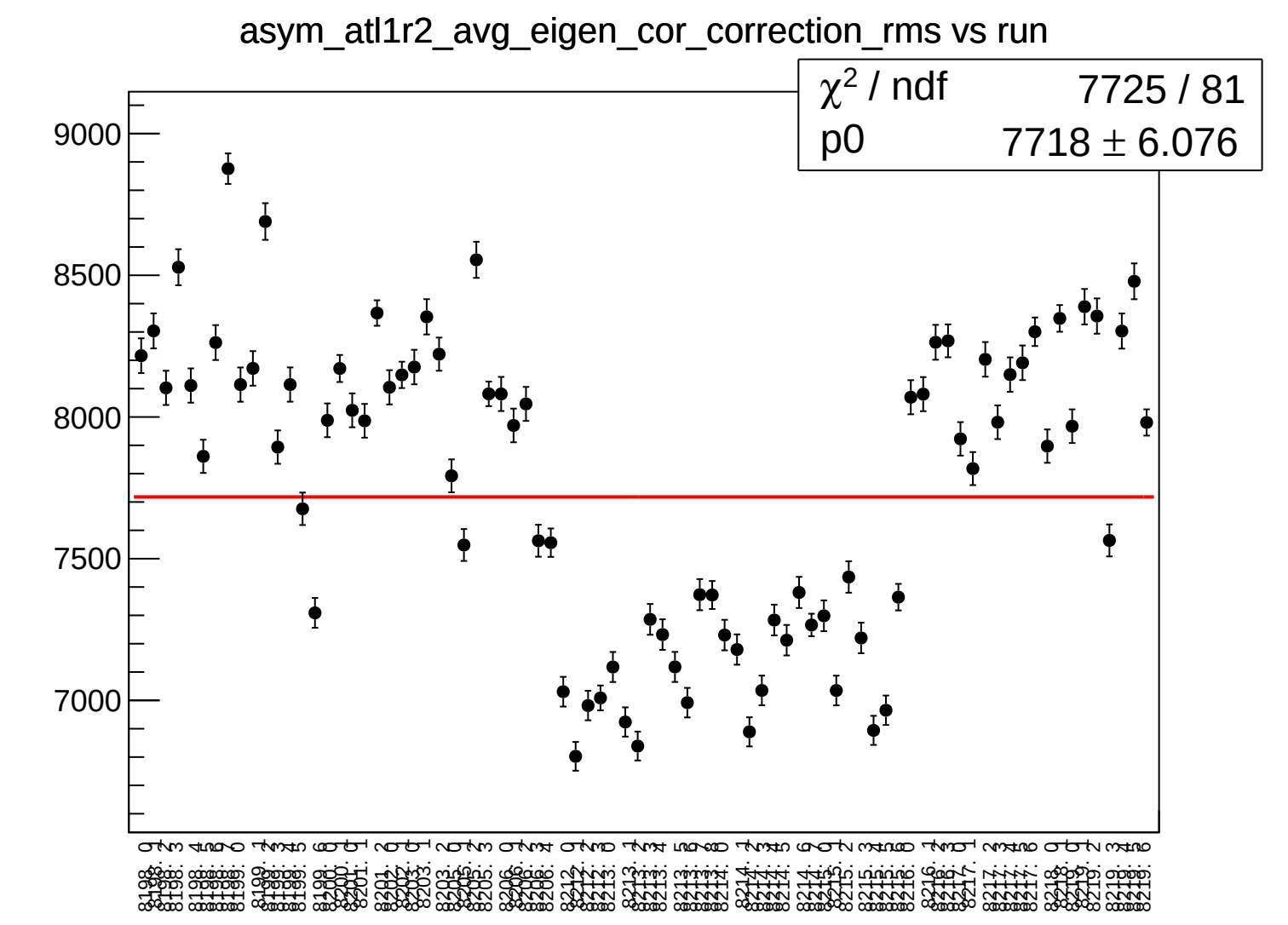

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 7725 / 81
p0 7718 ± 6.076
9000
8500
8000
7500
7000

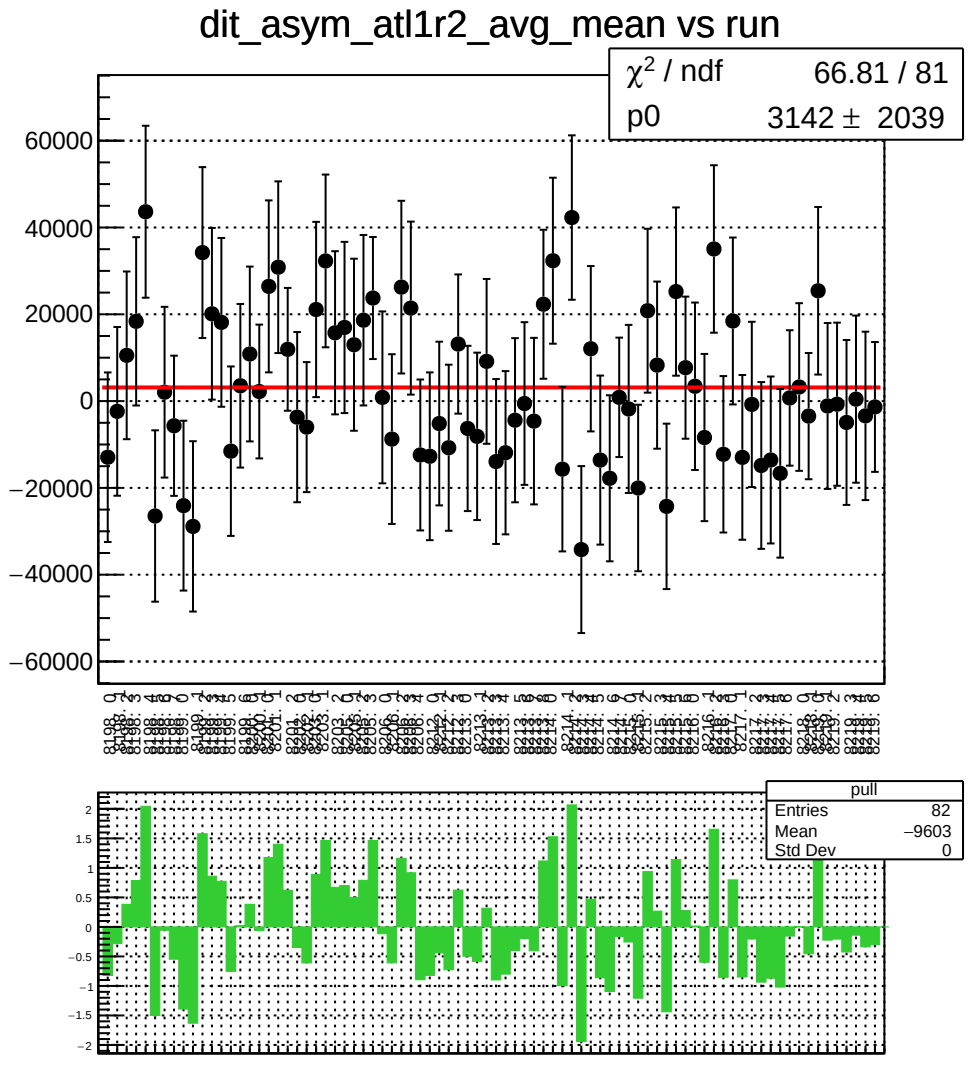

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 67.69 / 81
p0 3224 ± 2019
pull
Entries 82
Mean 1525
Std Dev 0

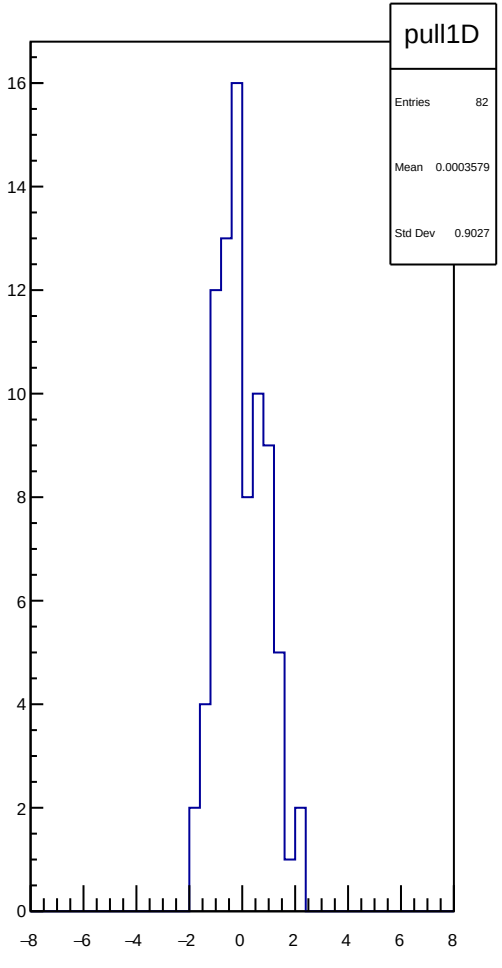

pull1D
Entries 82
Mean −0.002835
Std Dev 0.9085

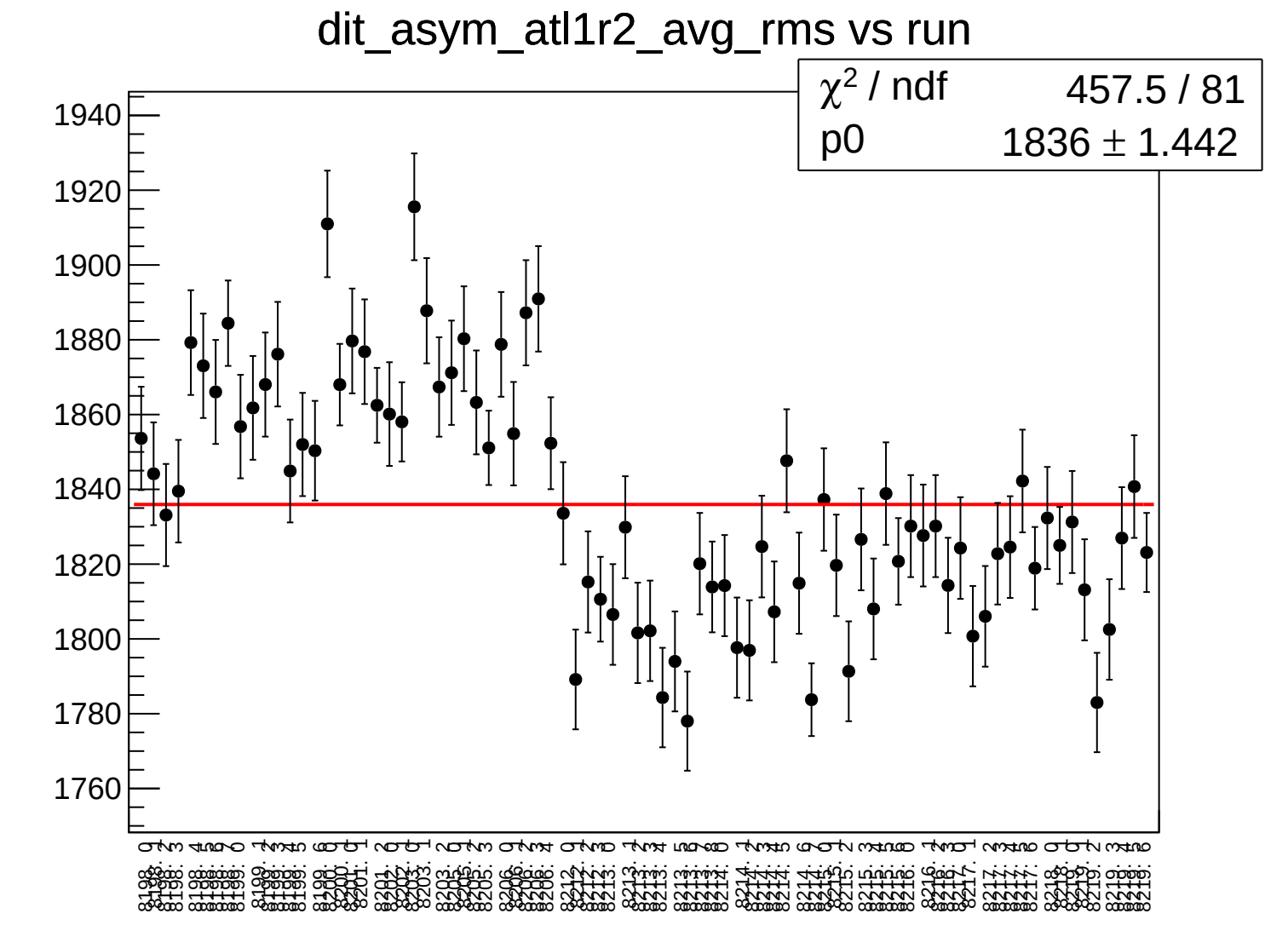

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 334.1 / 81
p0 1817 ± 1.427
1920
1900
1880
1860
1840
1820
1800
1780
1760

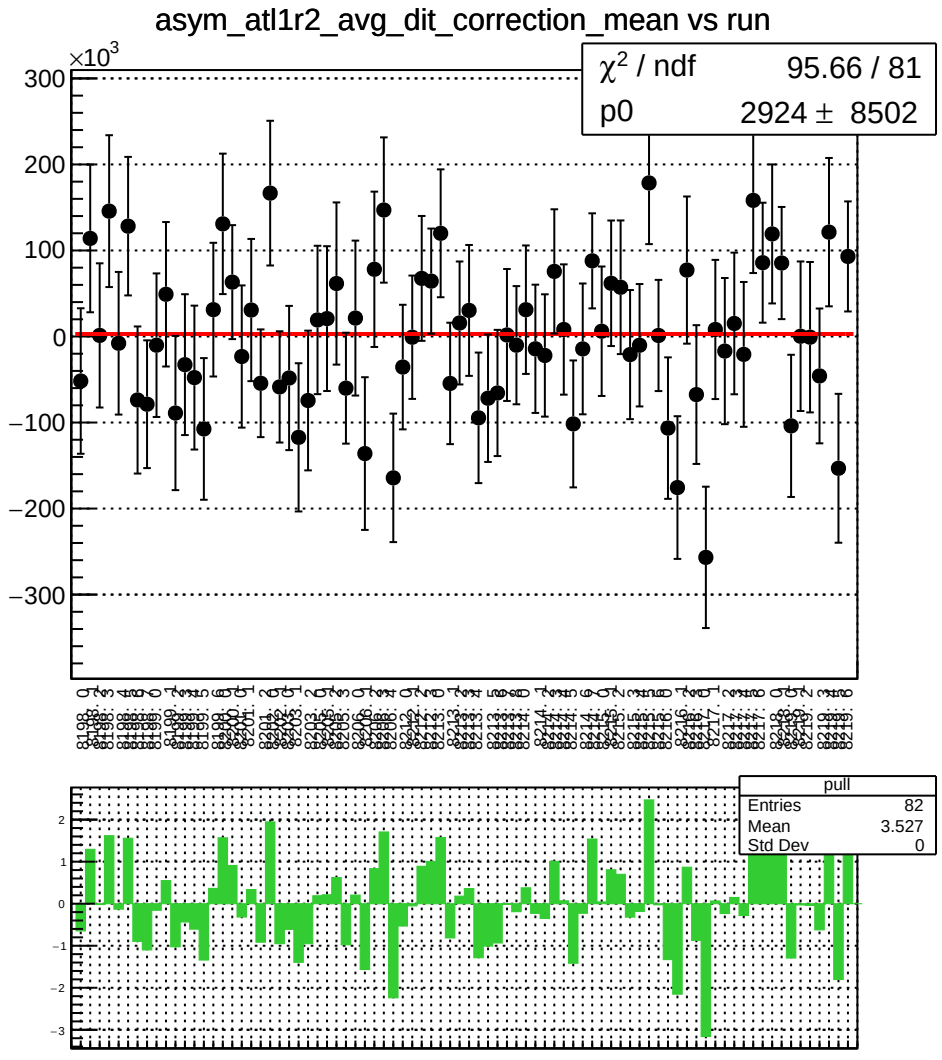

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.93 / 81
p0 2773 ± 8593
pull
Entries 82
Mean 11.2
Std Dev 0
pull1D
Entries 82
Mean −0.01266
Std Dev 1.082

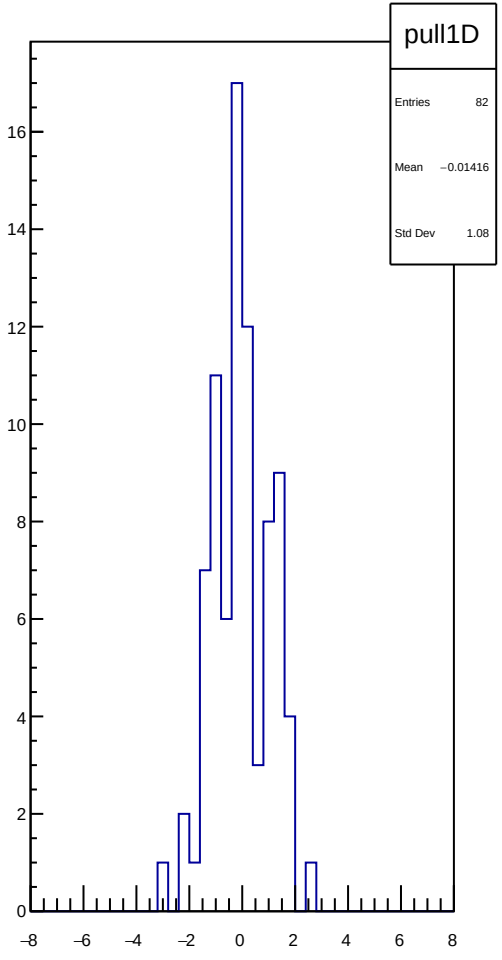

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 7725 / 81
p0 7718 ± 6.076
9000
8500
8000
7500
7000

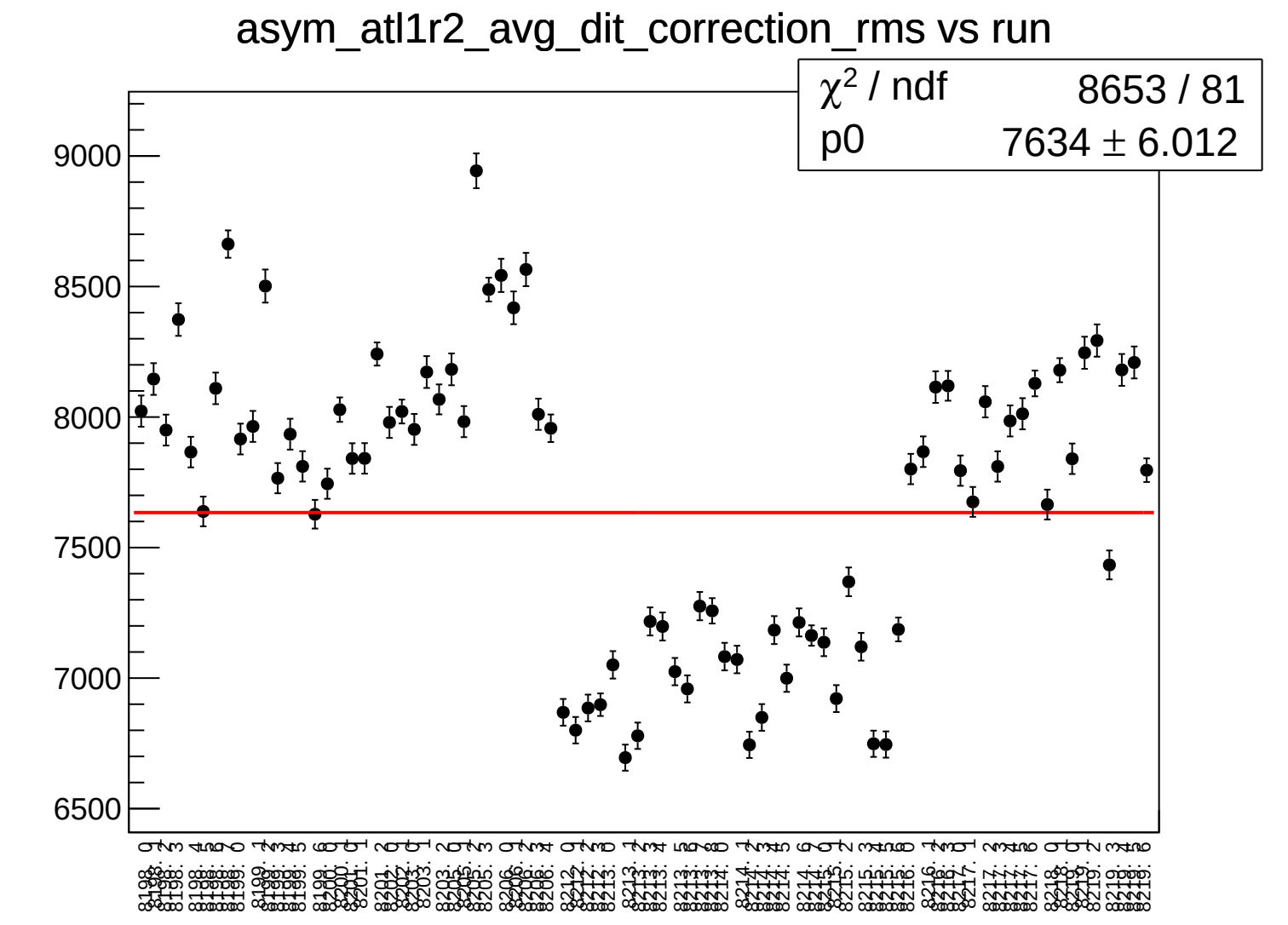

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 66.81 / 81
p0 3142 ± 2039
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −9603
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

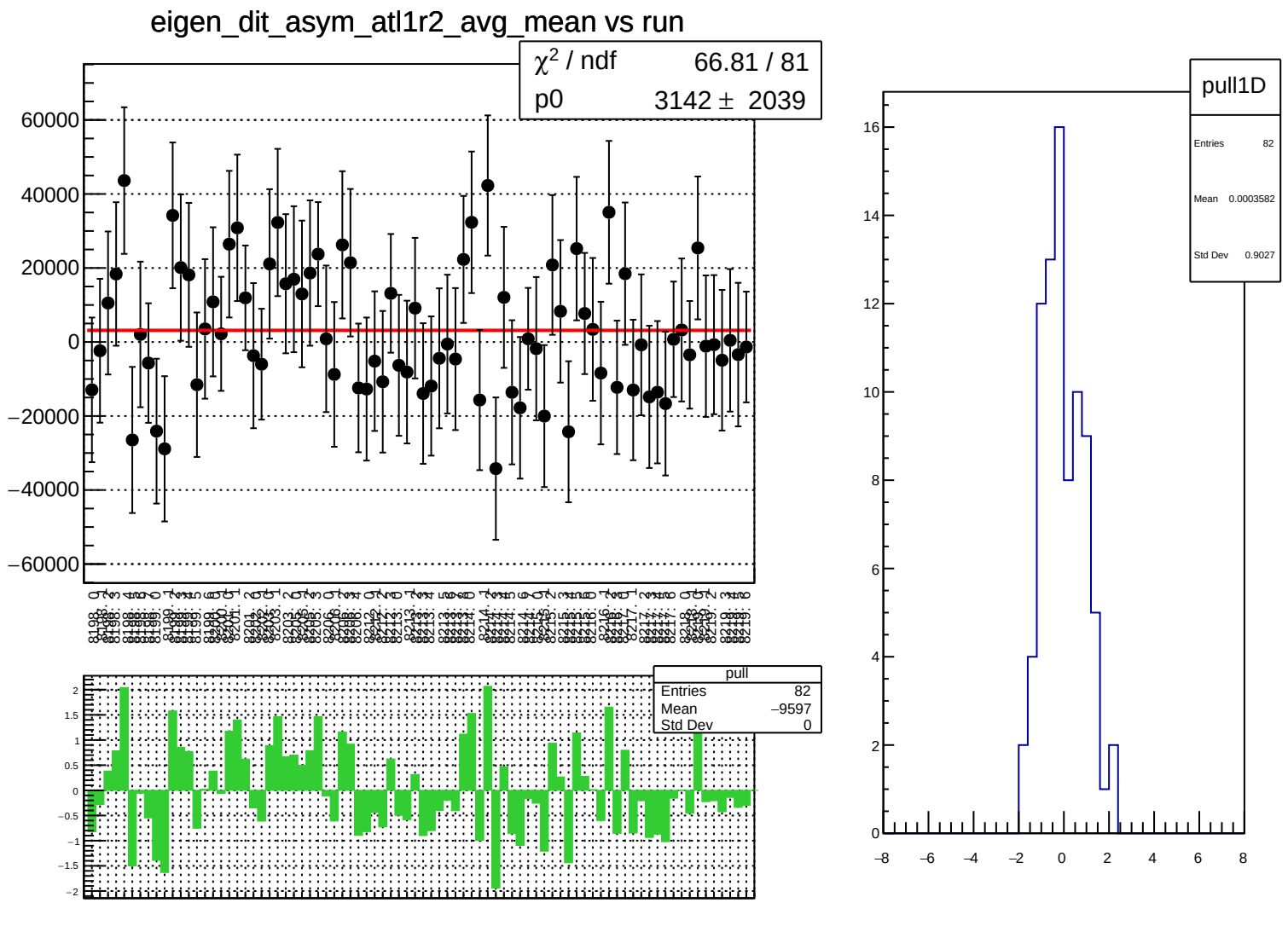

pull1D
Entries 82
Mean 0.0003579
Std Dev 0.9027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

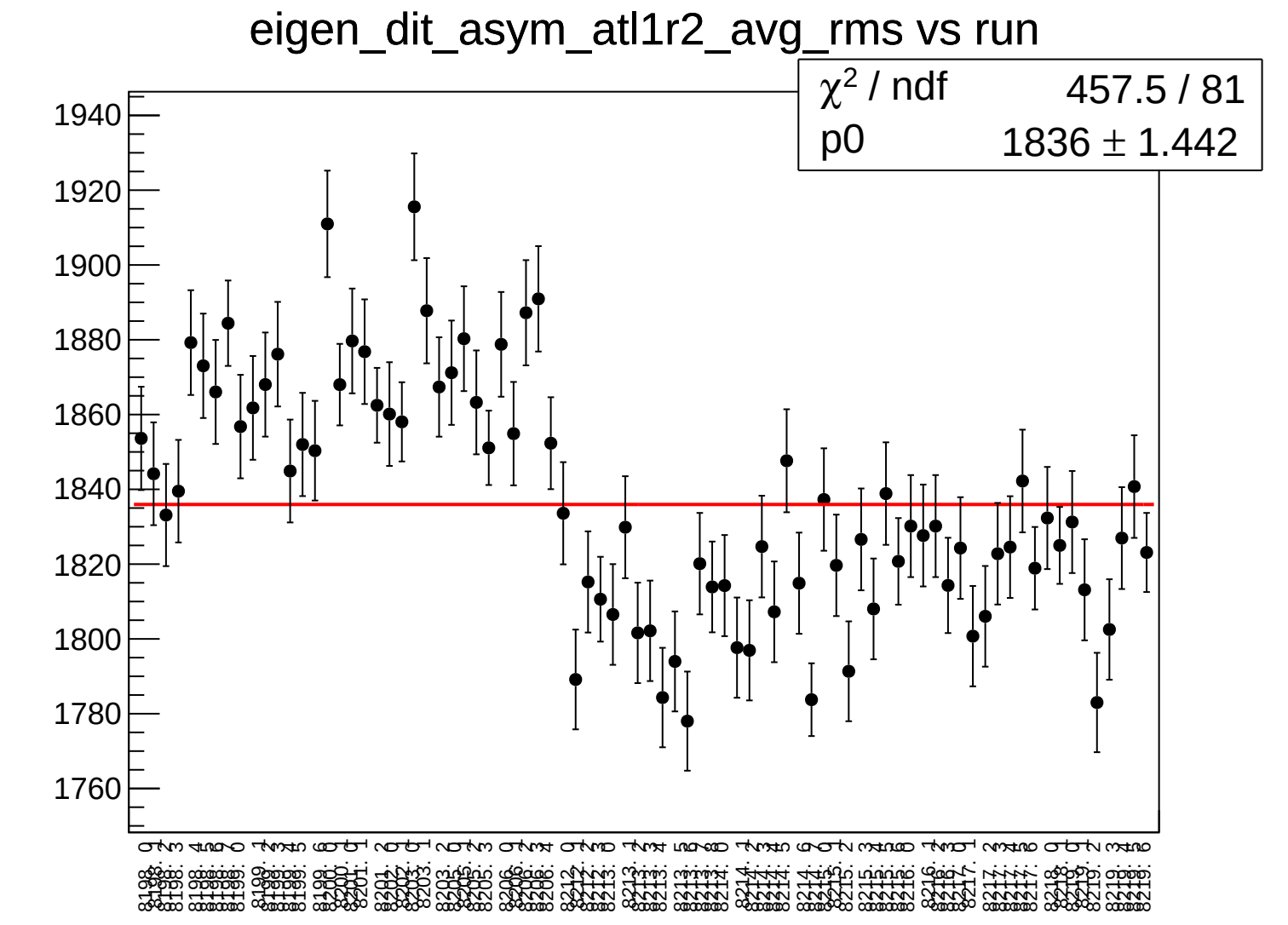

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 457.5 / 81
p0 1836 ± 1.442
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

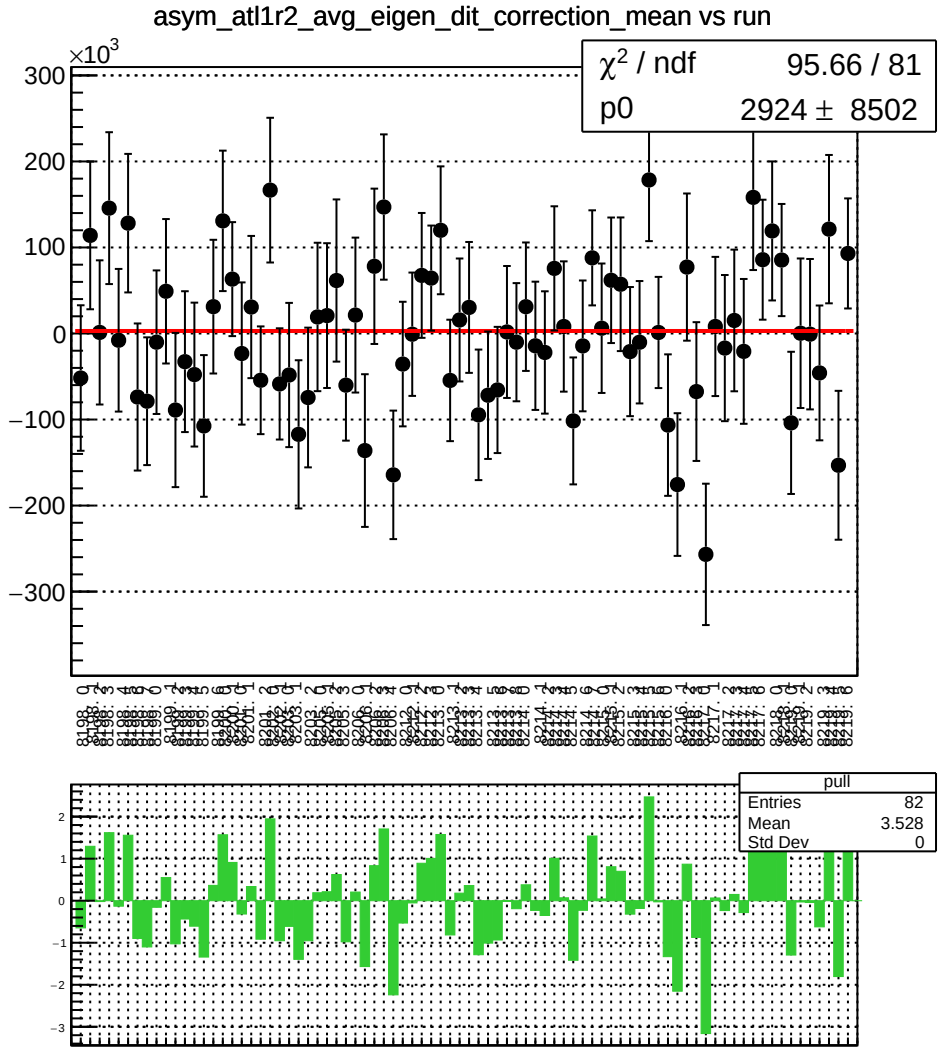

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.66 / 81
p0 2924 ± 8502
pull
Entries 82
Mean 3.527
Std Dev 0

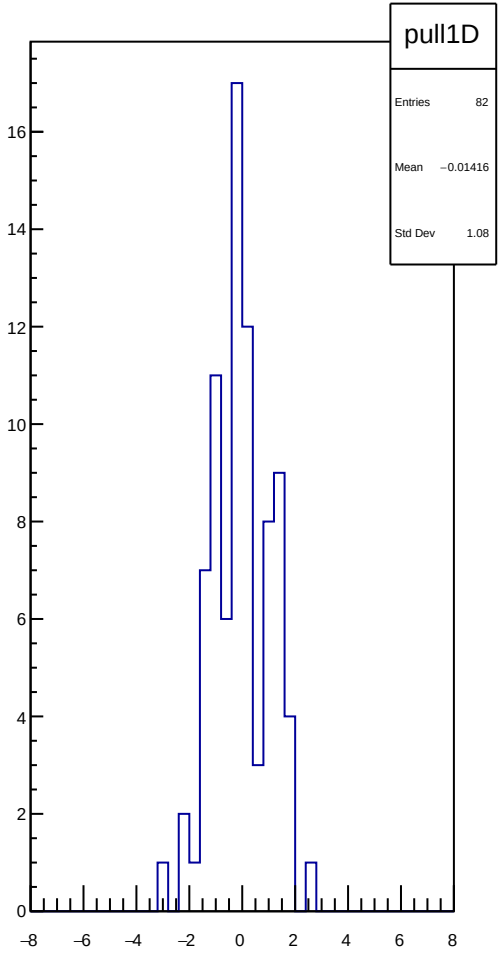

pull1D
Entries 82
Mean −0.01416
Std Dev 1.08

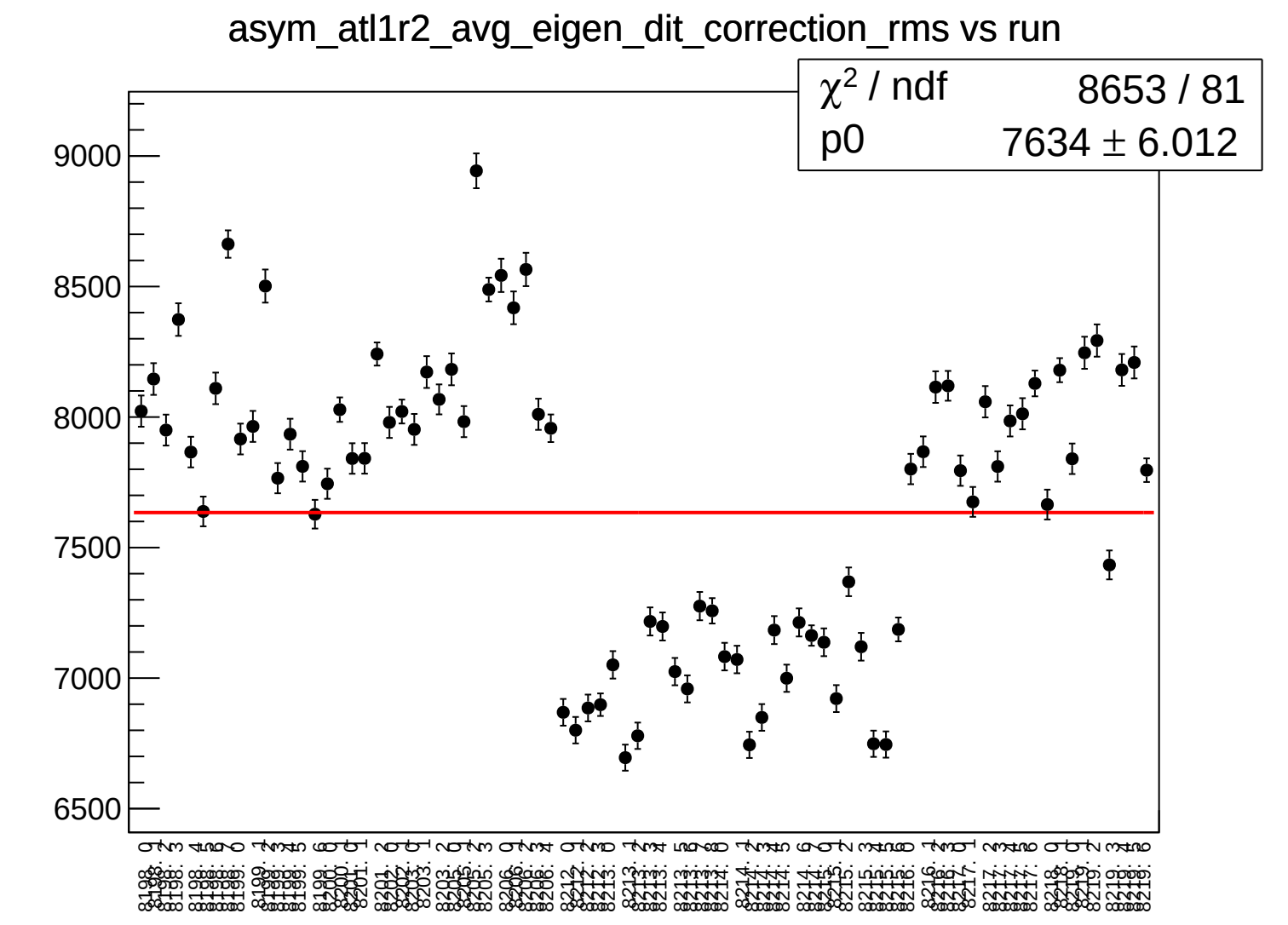

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 8653 / 81
p0 7634 ± 6.012
9000
8500
8000
7500
7000
6500

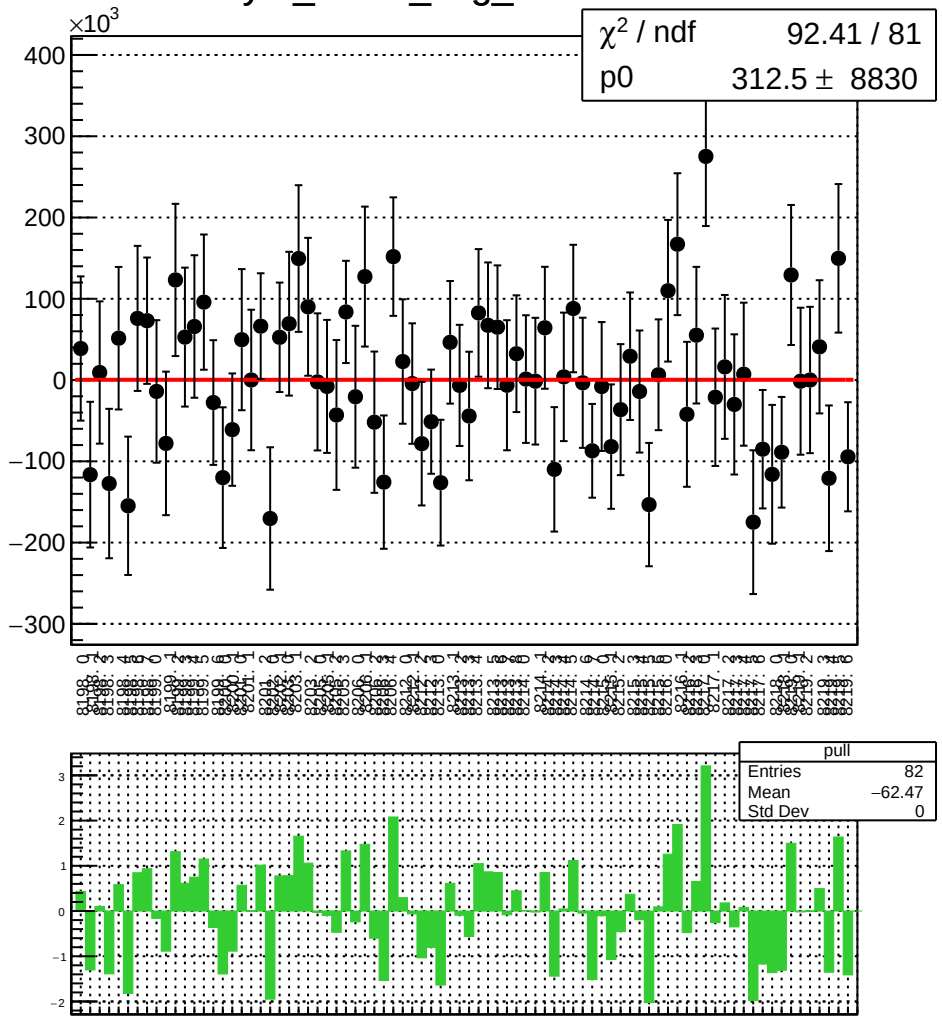

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 66.81 / 81
p0 3142 ± 2039
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −9597
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.0003582
Std Dev 0.9027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

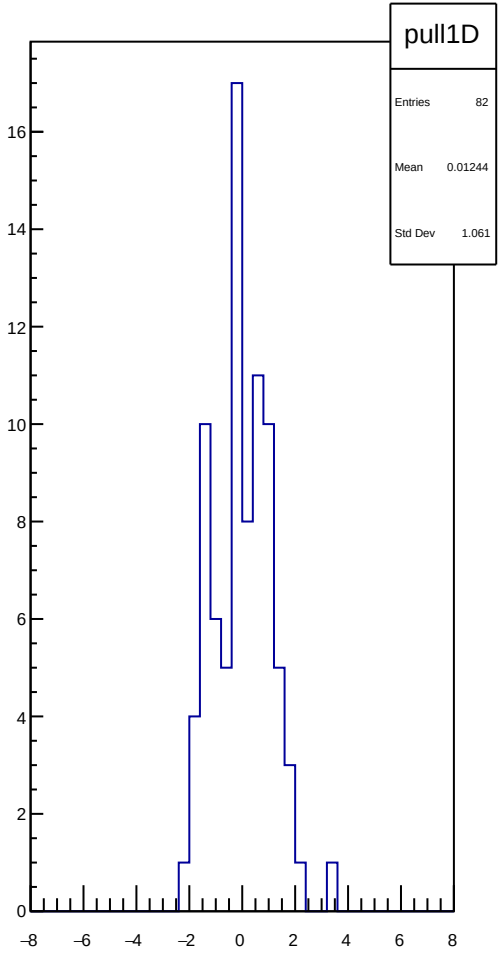

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 457.5 / 81
p0 1836 ± 1.442
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

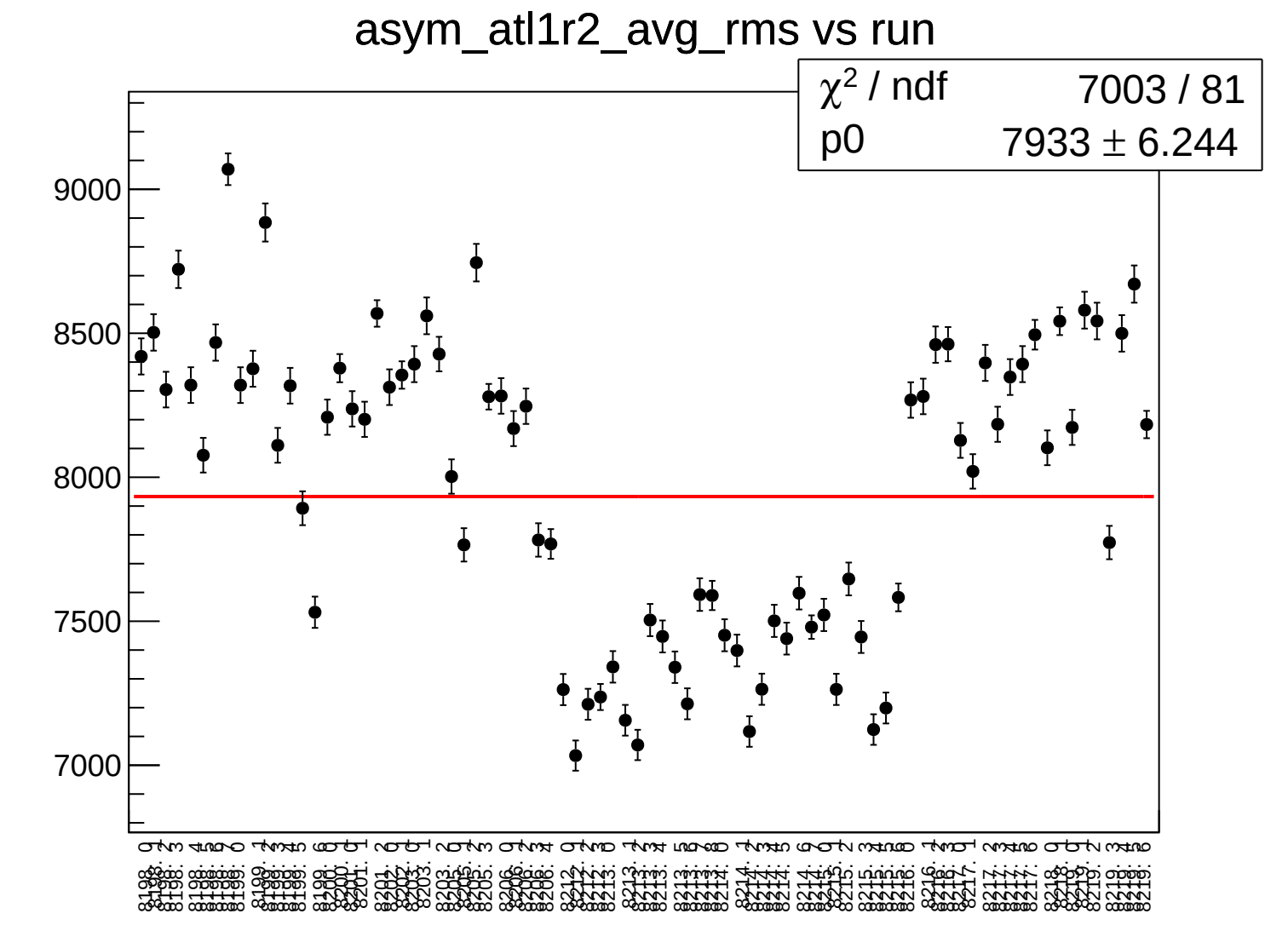

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.66 / 81
p0 2924 ± 8502
pull
Entries 82
Mean 3.528
Std Dev 0

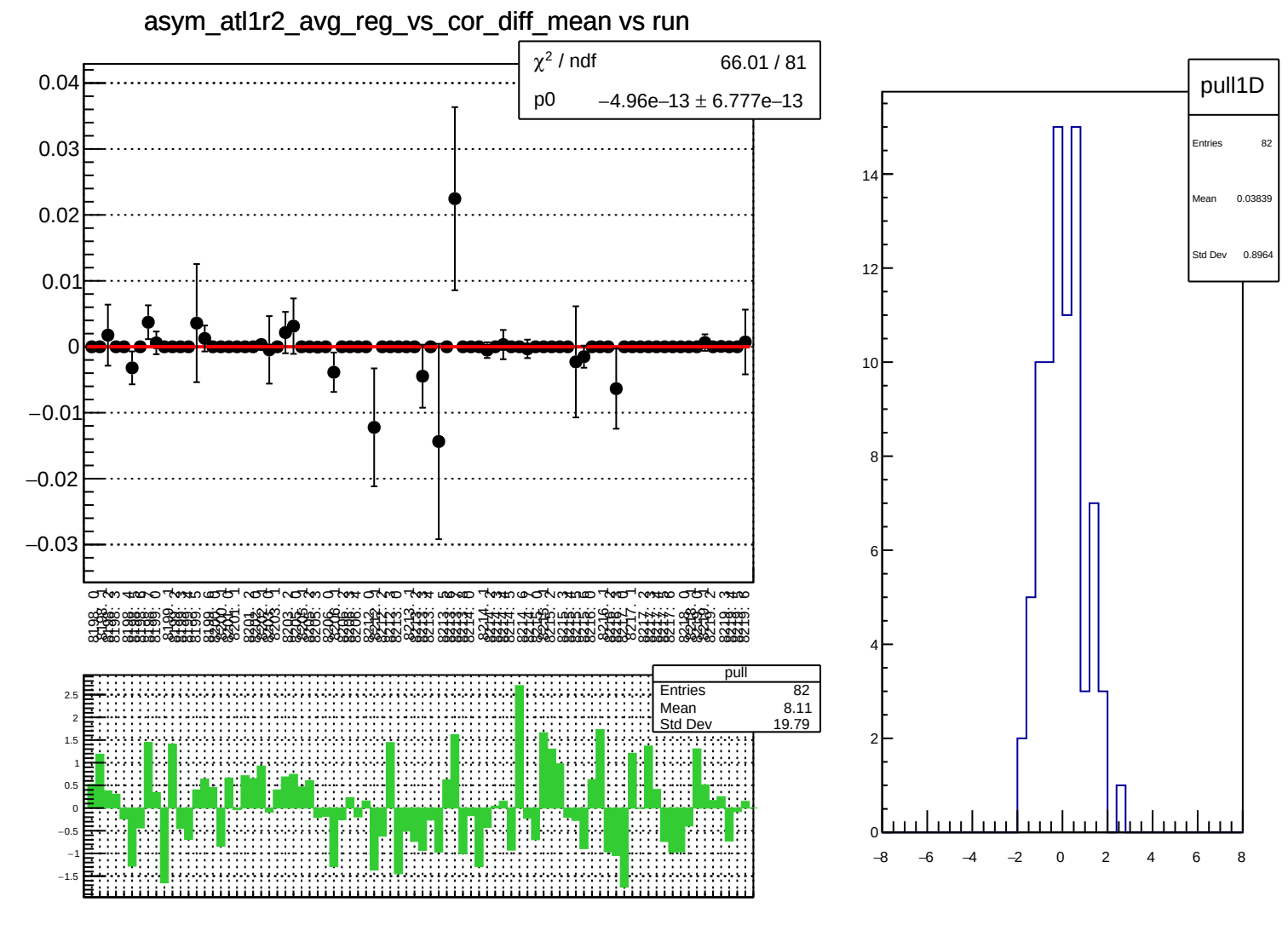

pull1D
Entries 82
Mean −0.01416
Std Dev 1.08

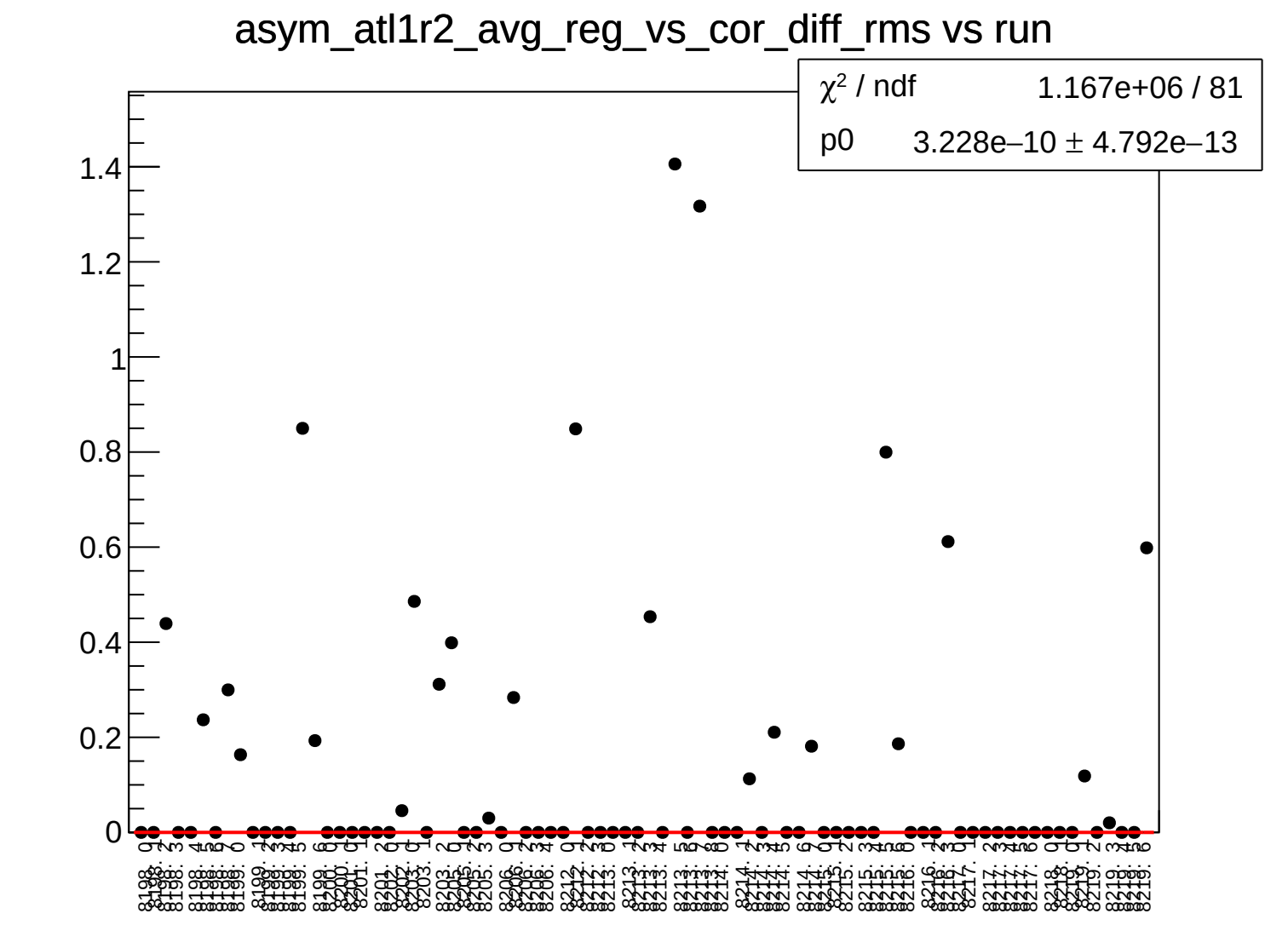

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8653 / 81
p0 7634 ± 6.012
9000
8500
8000
7500
7000
6500

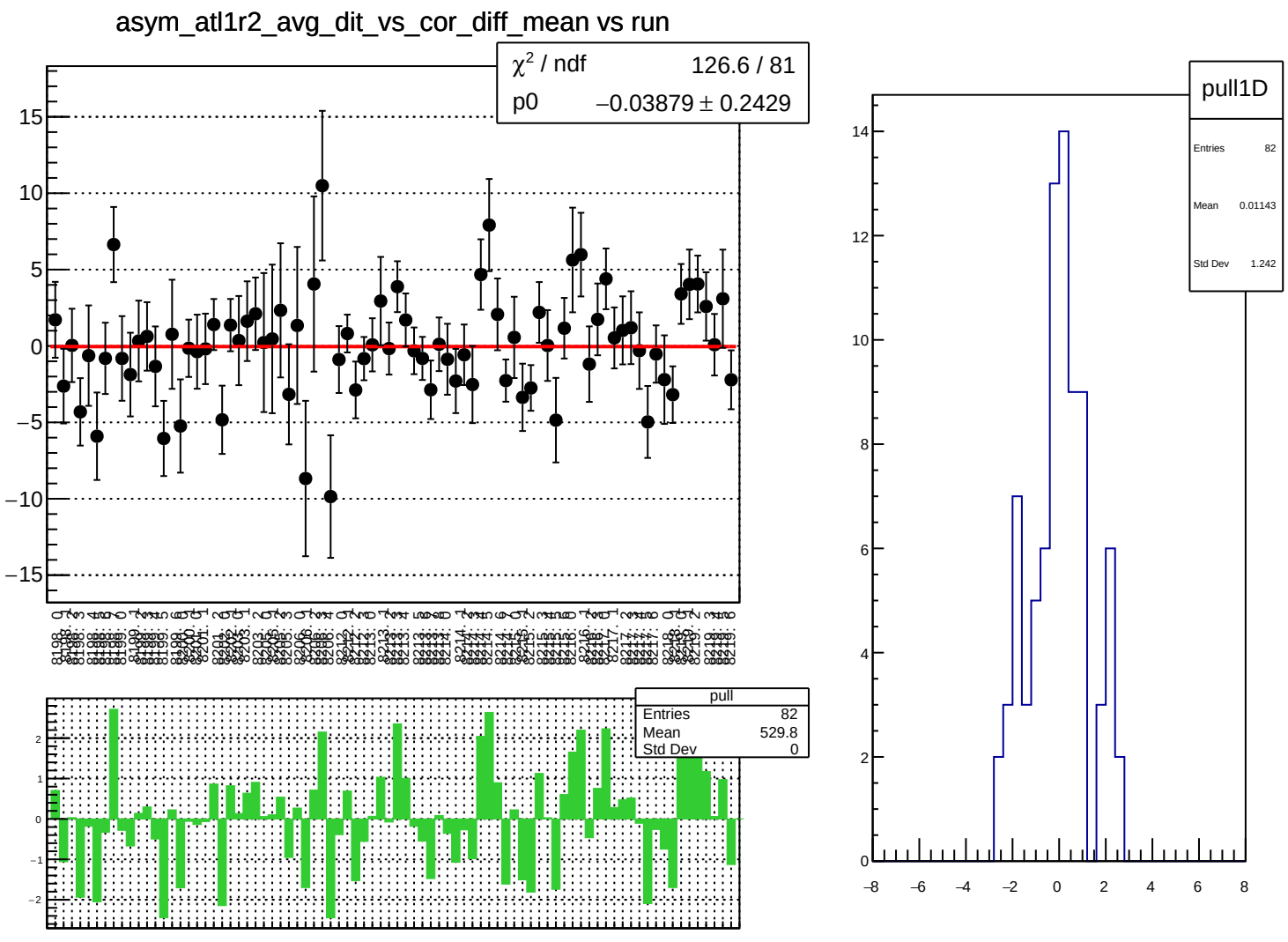

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 92.41 / 81
p0 312.5 ± 8830
pull
Entries 82
Mean −62.47
Std Dev 0

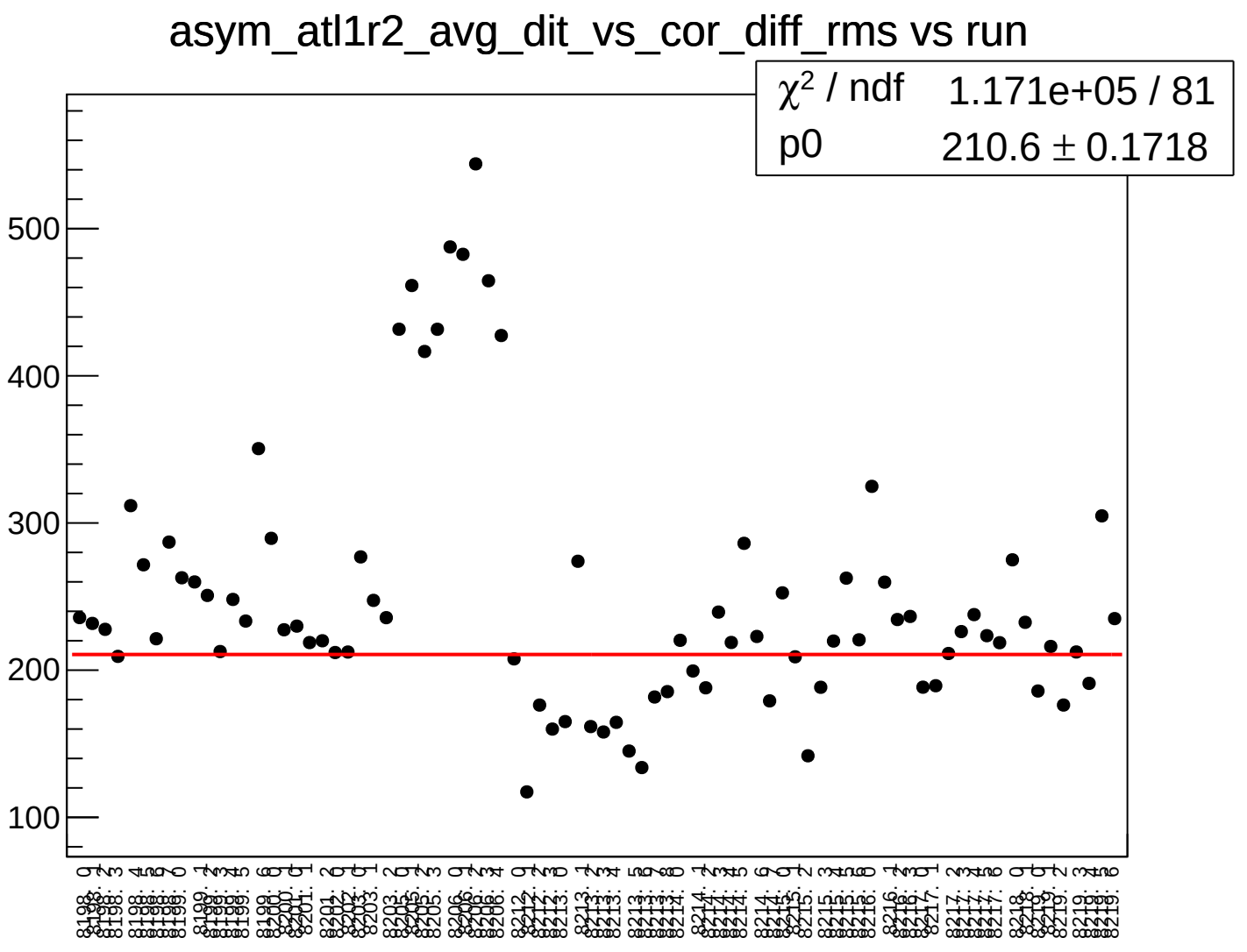

pull1D
Entries 82
Mean 0.01244
Std Dev 1.061

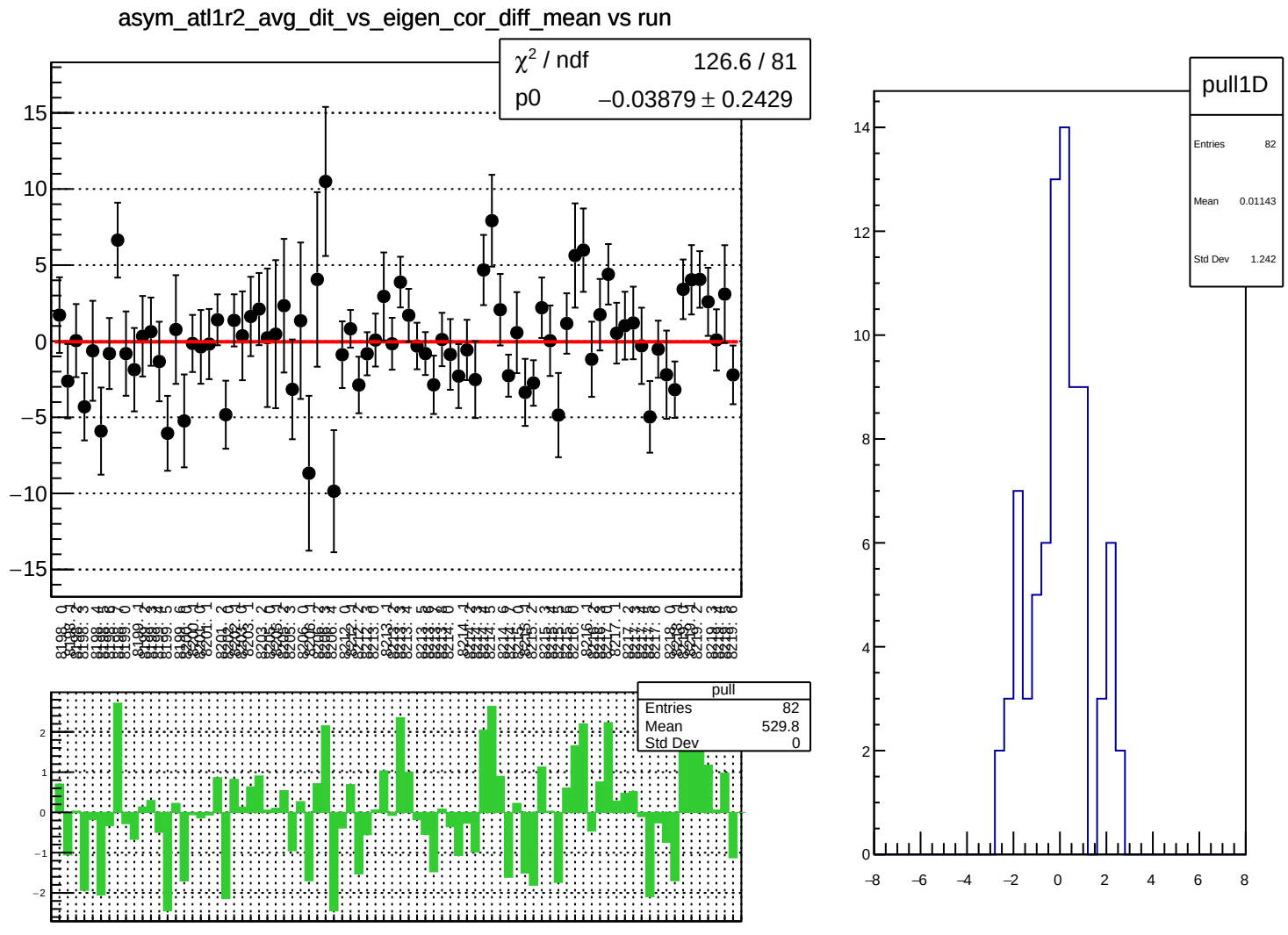

asym_atl1r2_avg_rms vs run
χ² / ndf 7003 / 81
p0 7933 ± 6.244
9000
8500
8000
7500
7000

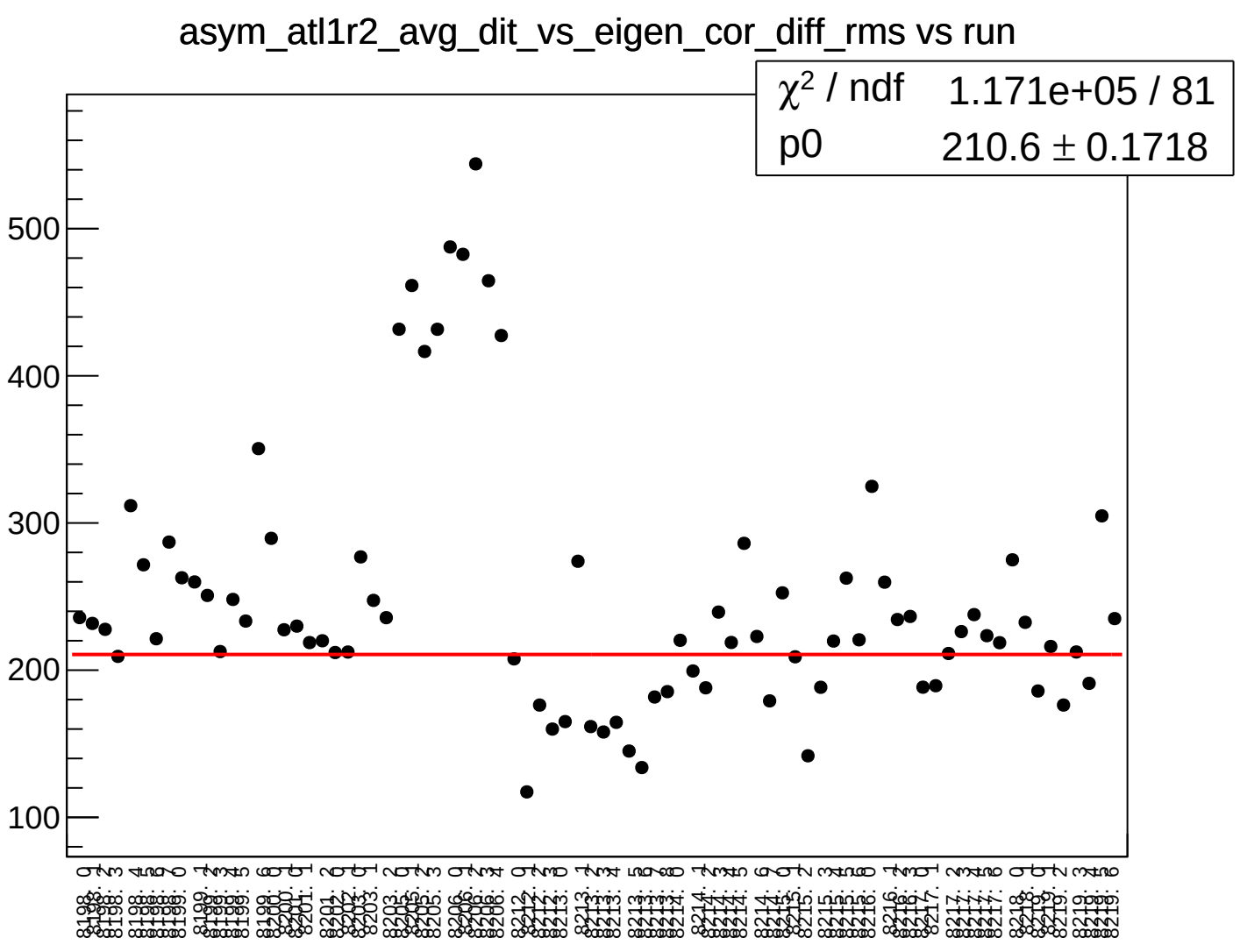

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.01 / 81
p0 −4.96e−13 ± 6.777e−13
pull
Entries 82
Mean 8.11
Std Dev 19.79
pull1D
Entries 82
Mean 0.03839
Std Dev 0.8964

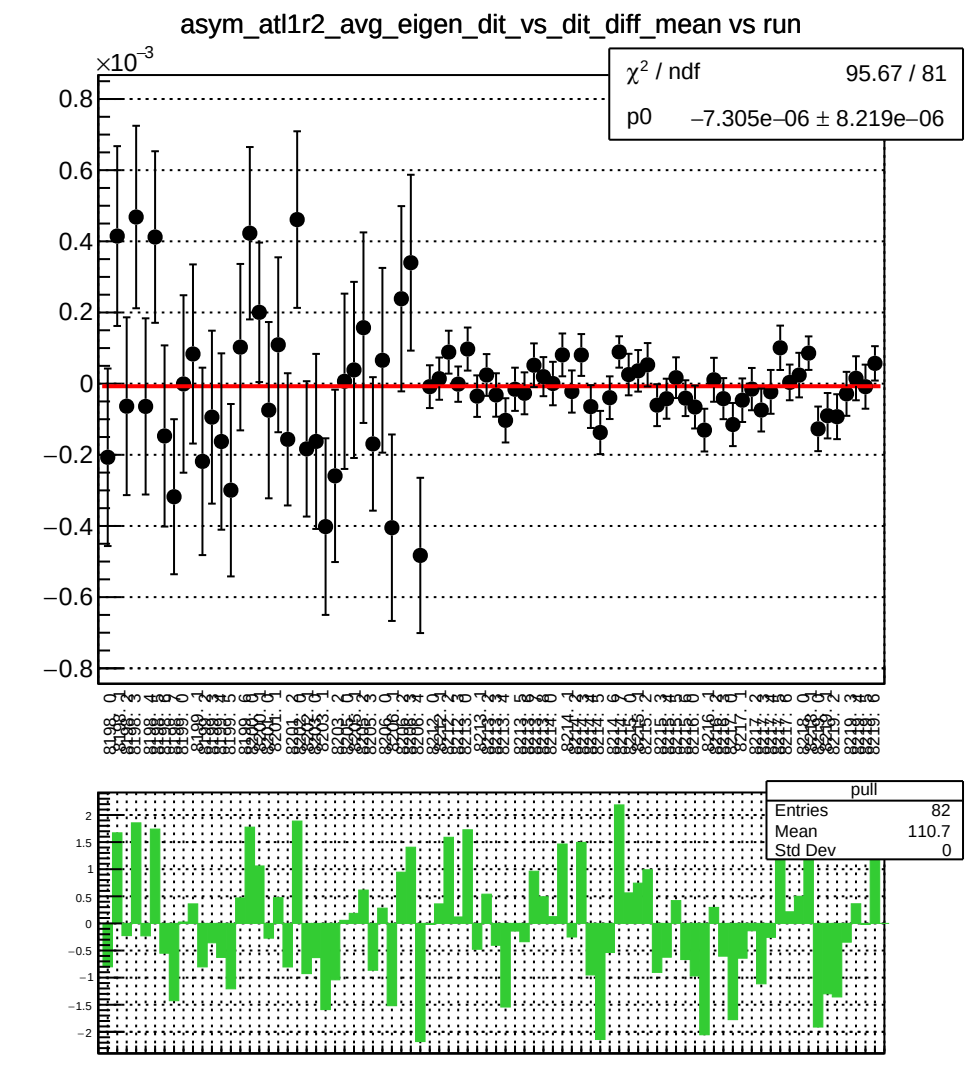

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.167e+06 / 81
p0 3.228e−10 ± 4.792e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

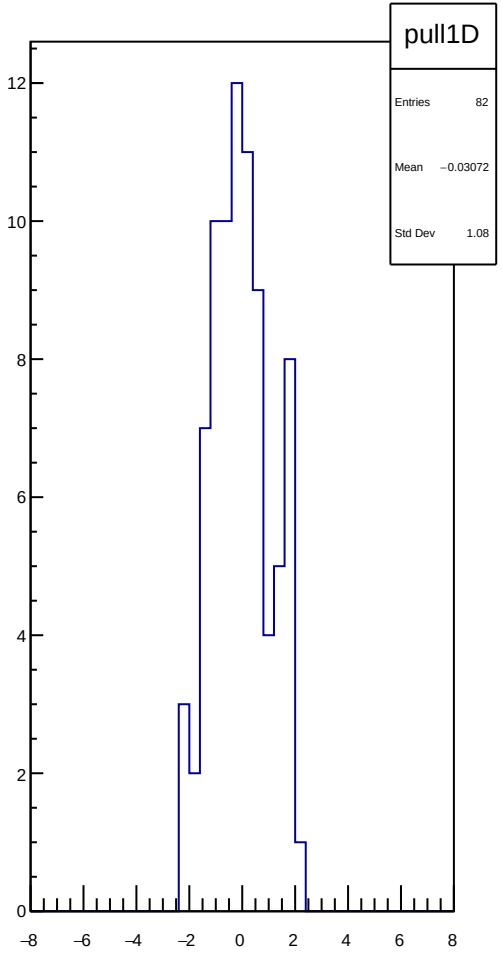

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 126.6 / 81
p0 −0.03879 ± 0.2429
pull
Entries 82
Mean 529.8
Std Dev 0
pull1D
Entries 82
Mean 0.01143
Std Dev 1.242

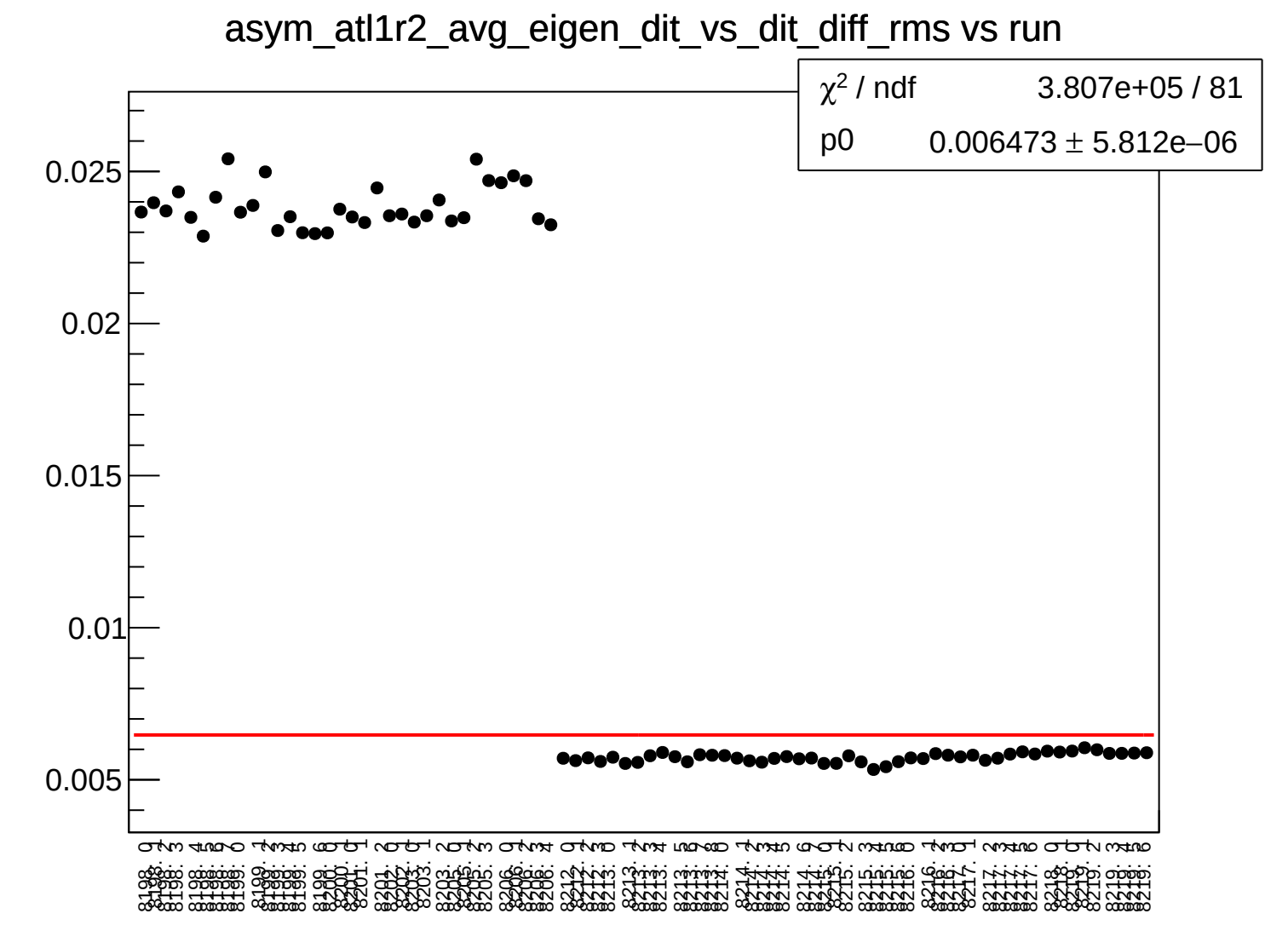

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.171e+05 / 81
p0 210.6 ± 0.1718
500
400
300
200
100

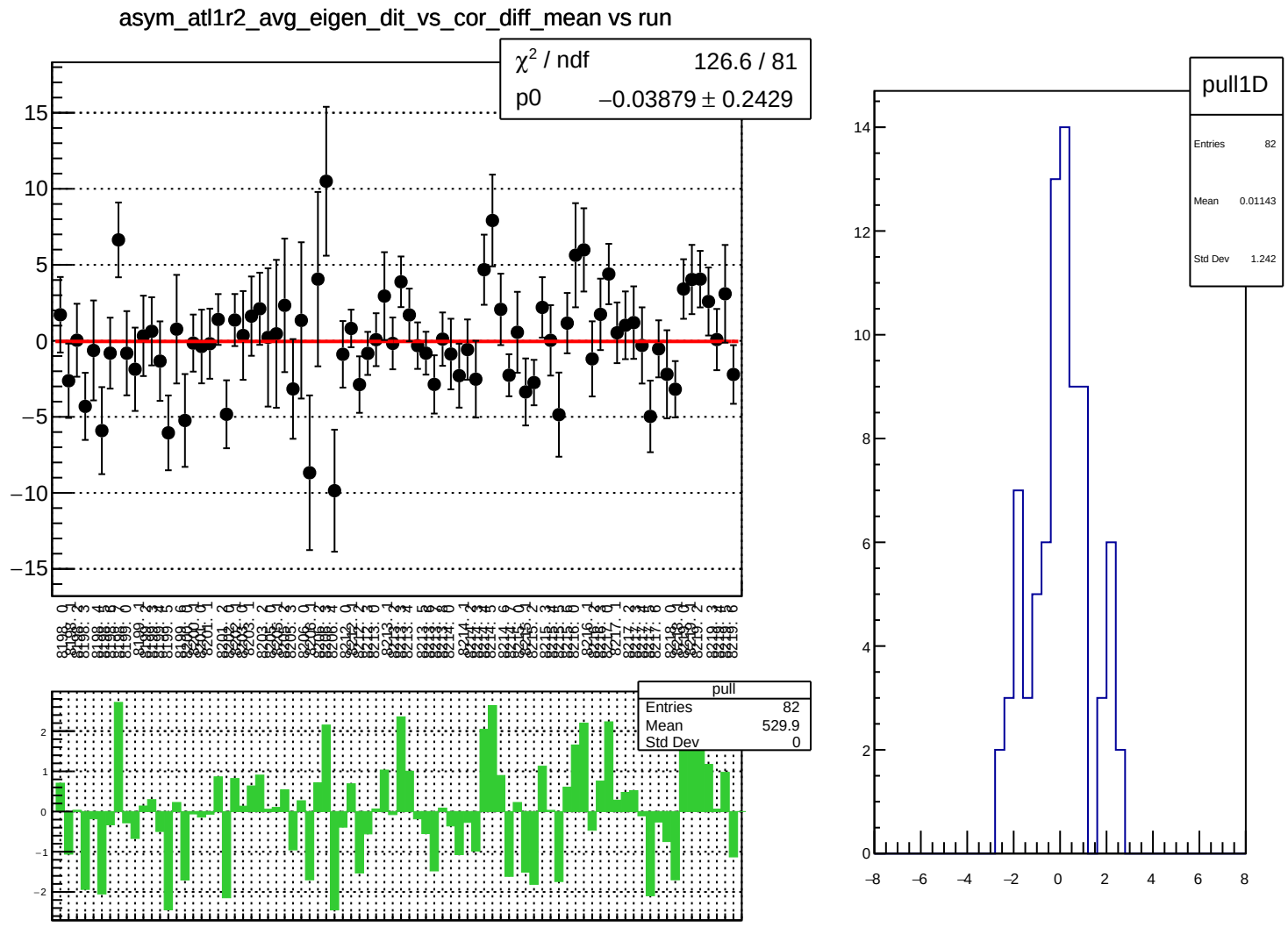

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.6 / 81
p0 −0.03879 ± 0.2429
pull
Entries 82
Mean 529.8
Std Dev 0
pull1D
Entries 82
Mean 0.01143
Std Dev 1.242

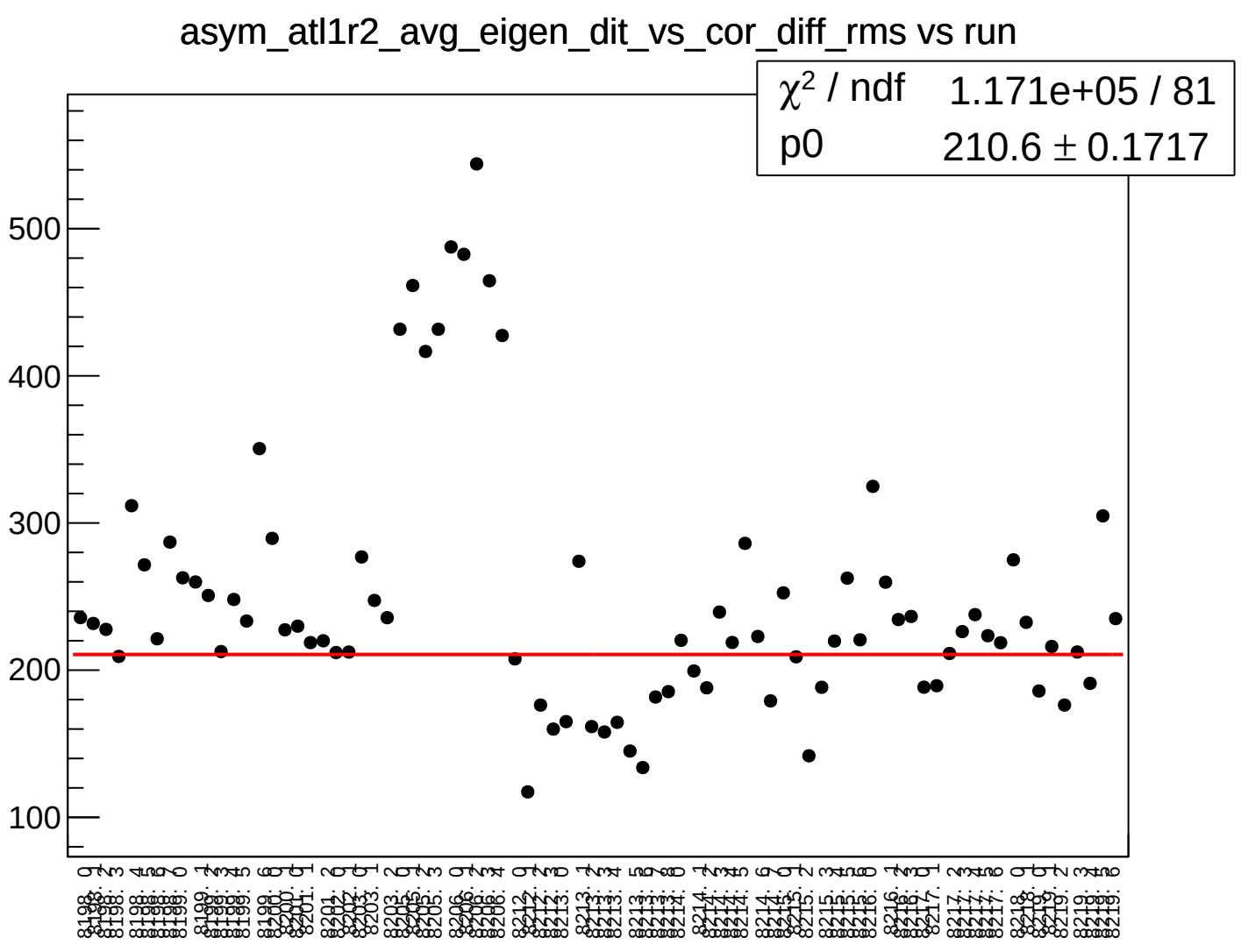

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.171e+05 / 81
p0 210.6 ± 0.1718
500
400
300
200
100

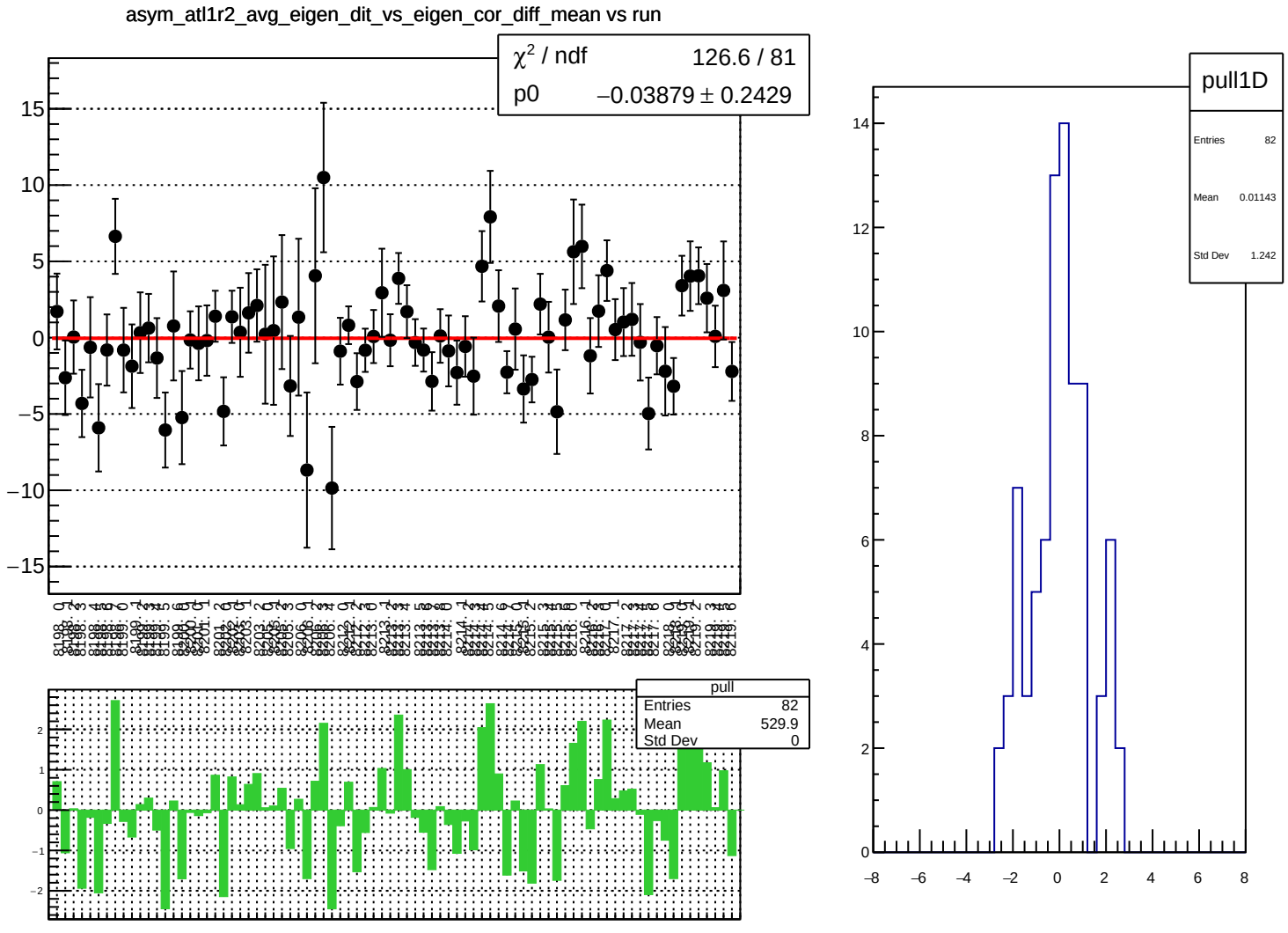

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.67 / 81
p0 −7.305e−06 ± 8.219e−06
pull
Entries 82
Mean 110.7
Std Dev 0

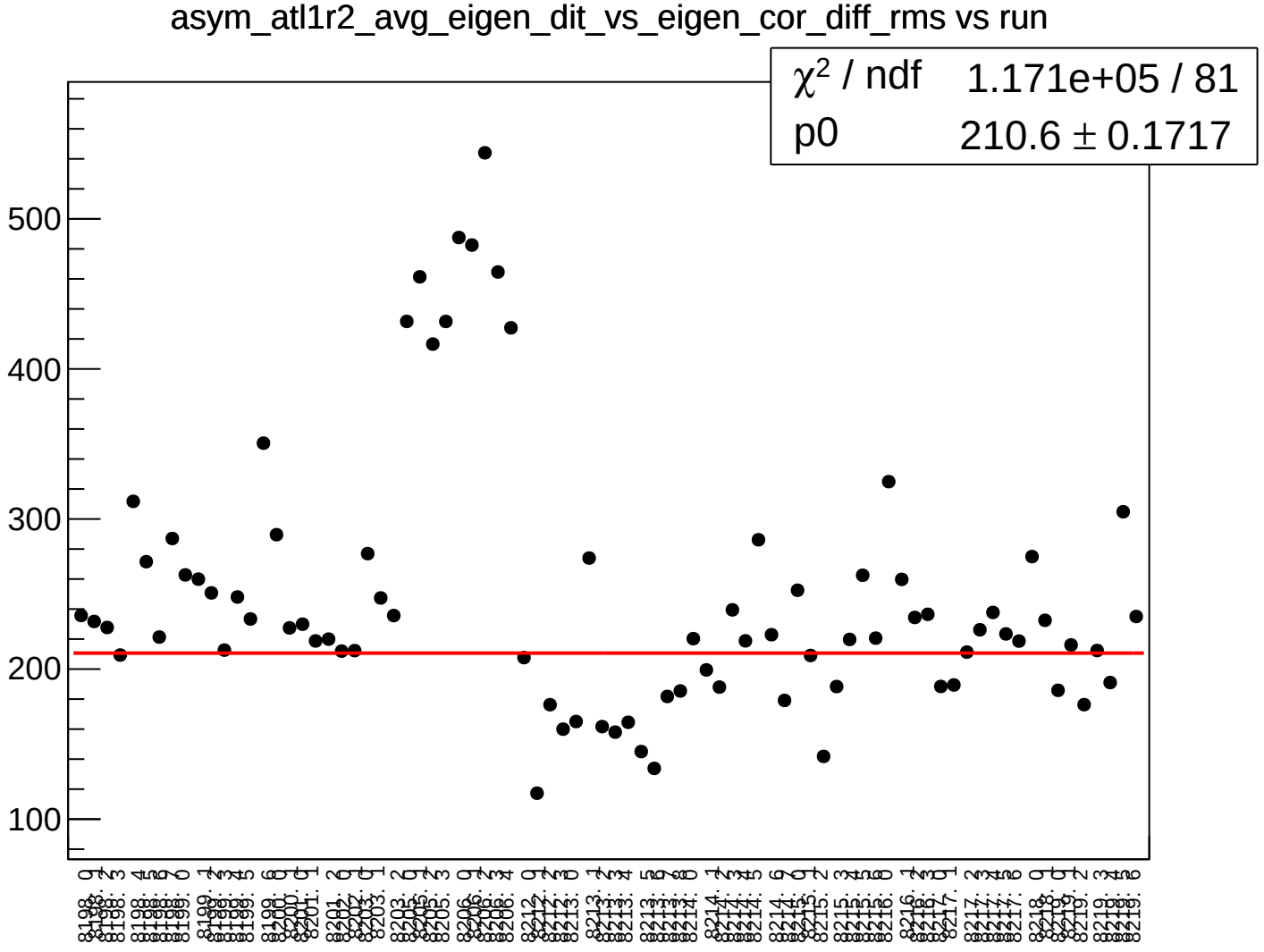

pull1D
Entries 82
Mean −0.03072
Std Dev 1.08

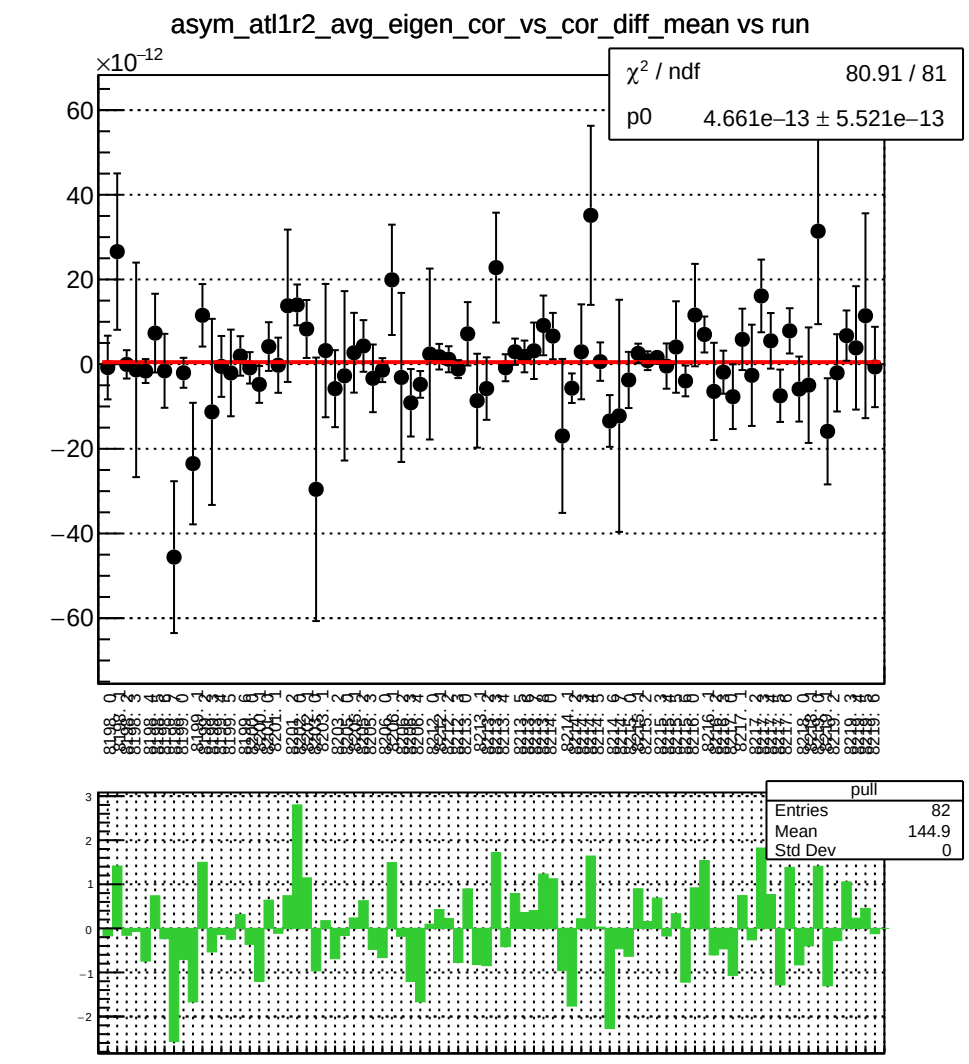

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.807e+05 / 81
p0 0.006473 ± 5.812e−06
0.025
0.02
0.015
0.01
0.005

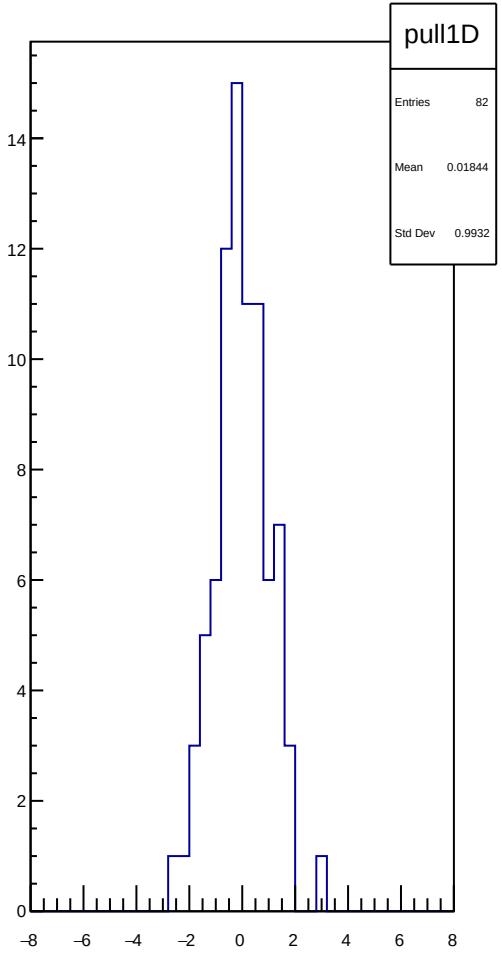

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 126.6 / 81
p0 −0.03879 ± 0.2429
pull
Entries 82
Mean 529.9
Std Dev 0
pull1D
Entries 82
Mean 0.01143
Std Dev 1.242

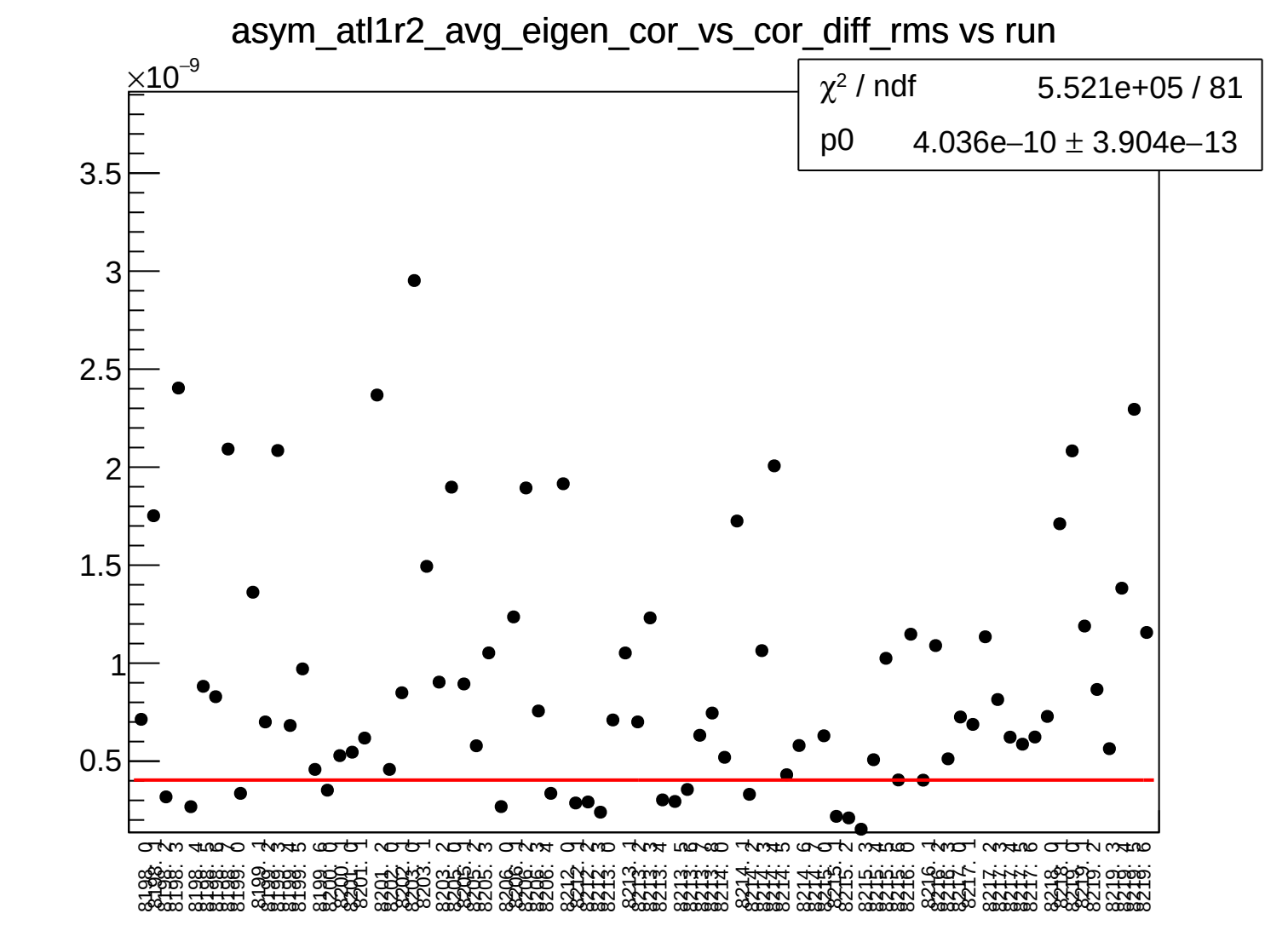

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.171e+05 / 81
p0 210.6 ± 0.1717
500
400
300
200
100

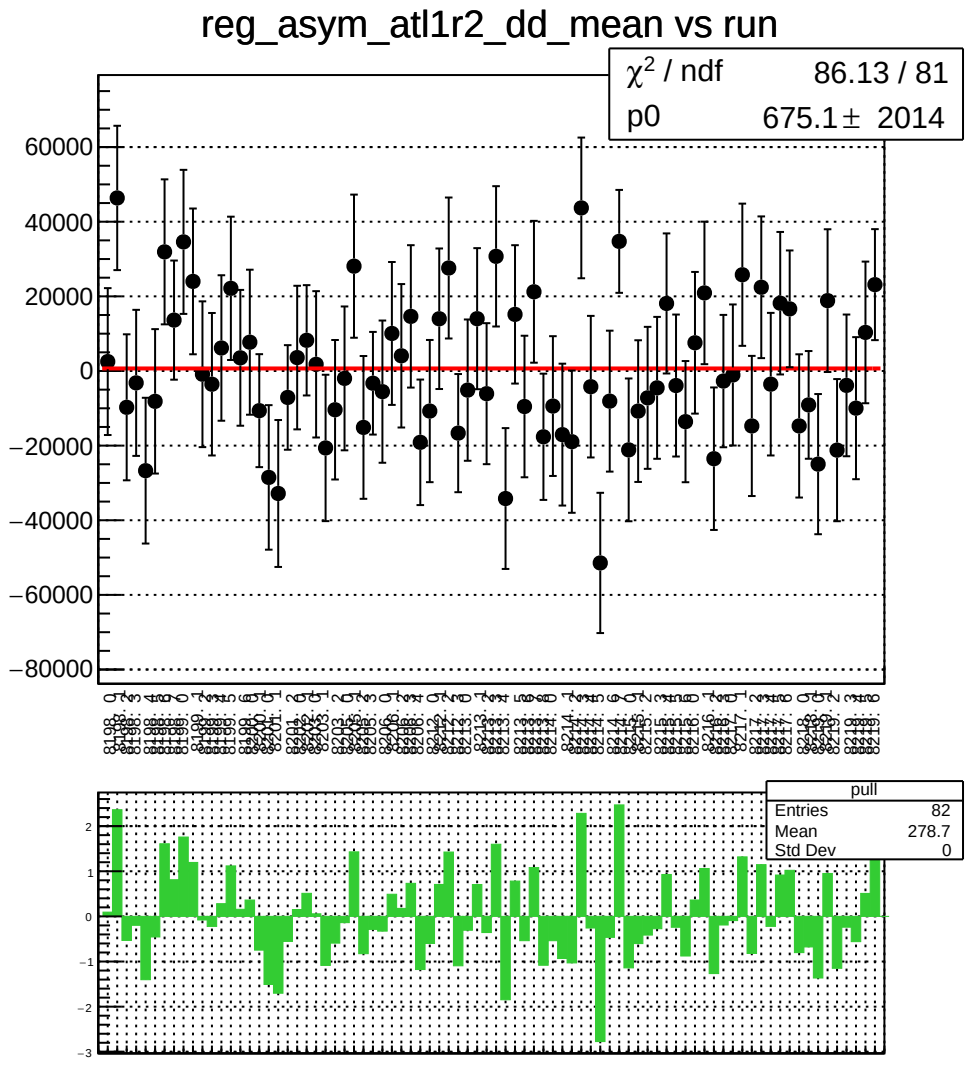

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.6 / 81
p0 −0.03879 ± 0.2429
pull
Entries 82
Mean 529.9
Std Dev 0
pull1D
Entries 82
Mean 0.01143
Std Dev 1.242

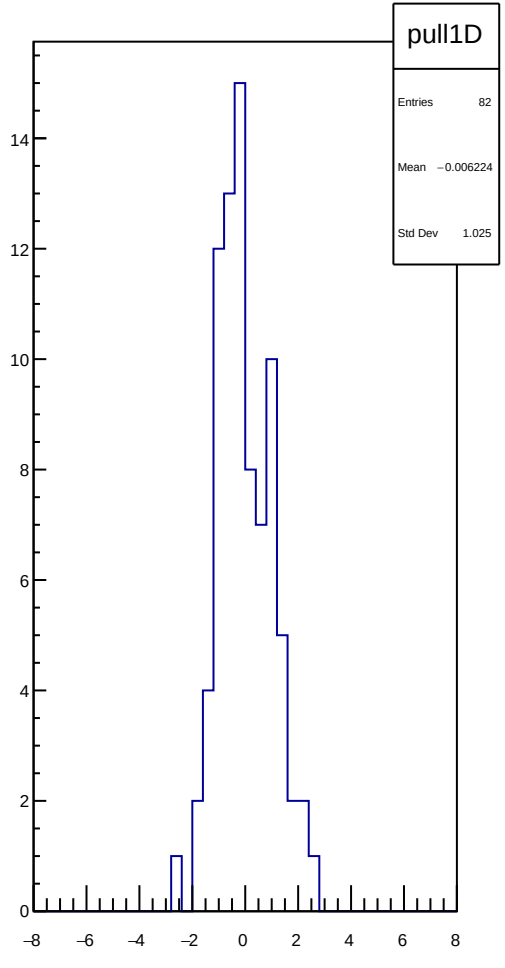

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.171e+05 / 81
p0 210.6 ± 0.1717
500
400
300
200
100

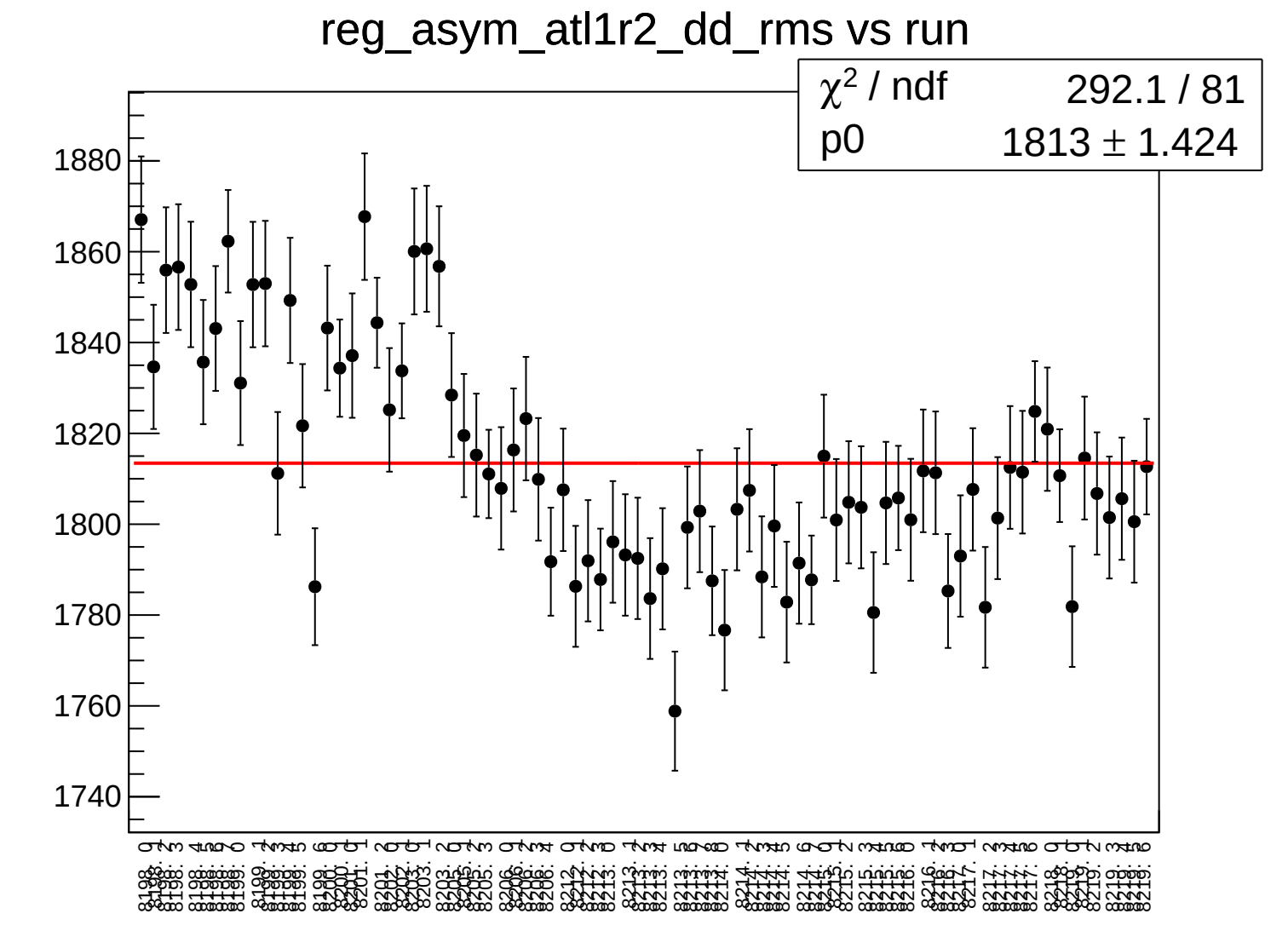

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.91 / 81
p0 4.661e−13 ± 5.521e−13
pull
Entries 82
Mean 144.9
Std Dev 0

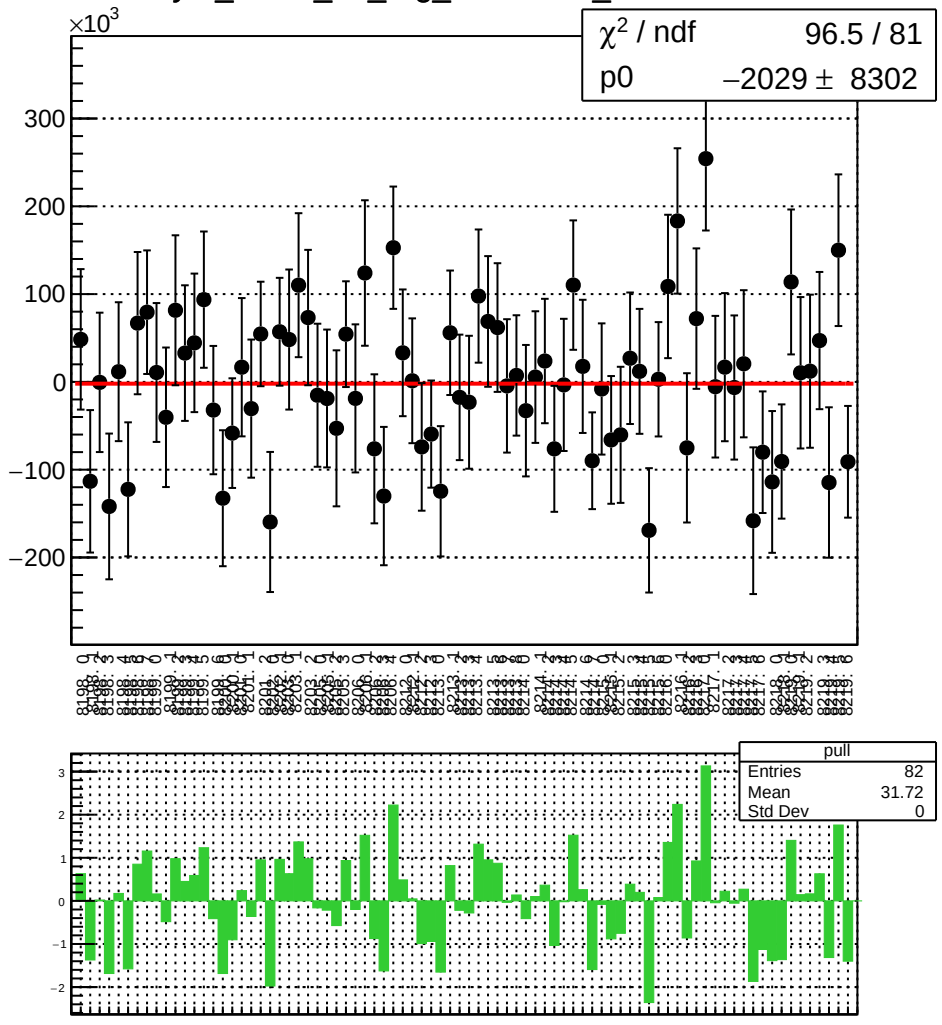

pull1D
Entries 82
Mean 0.01844
Std Dev 0.9932

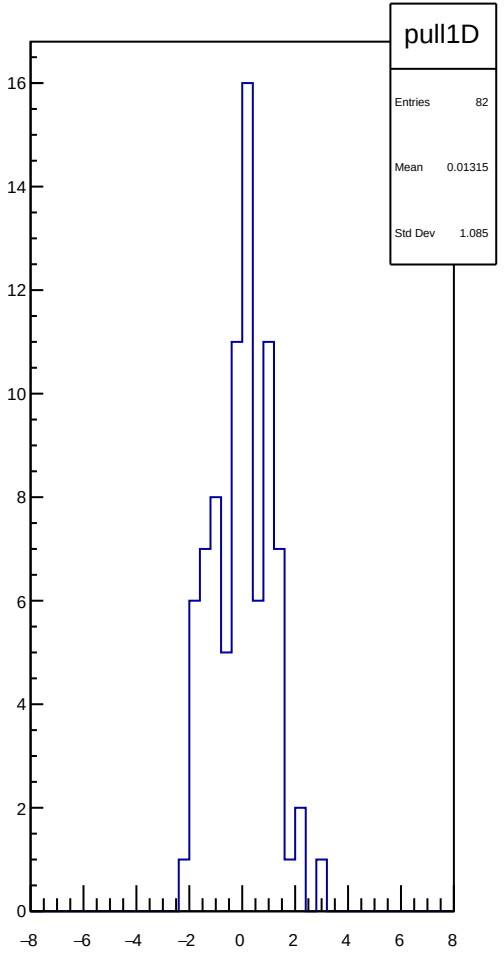

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.521e+05 / 81
p0 4.036e−10 ± 3.904e−13
3.5
3
2.5
2
1.5
1
0.5

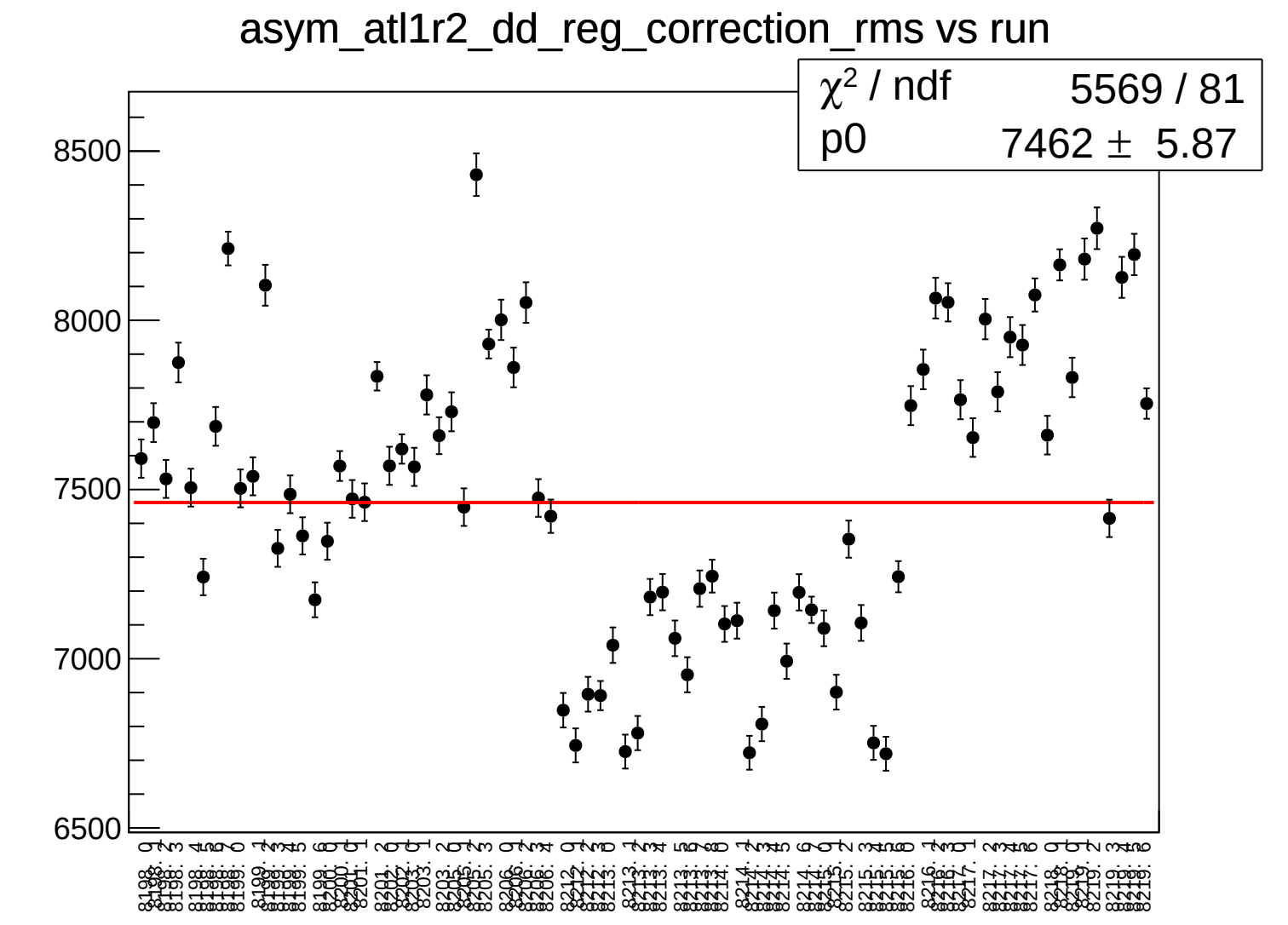

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 86.13 / 81
p0 675.1 ± 2014
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 278.7
Std Dev 0
2
1
0
−1
−2
−3

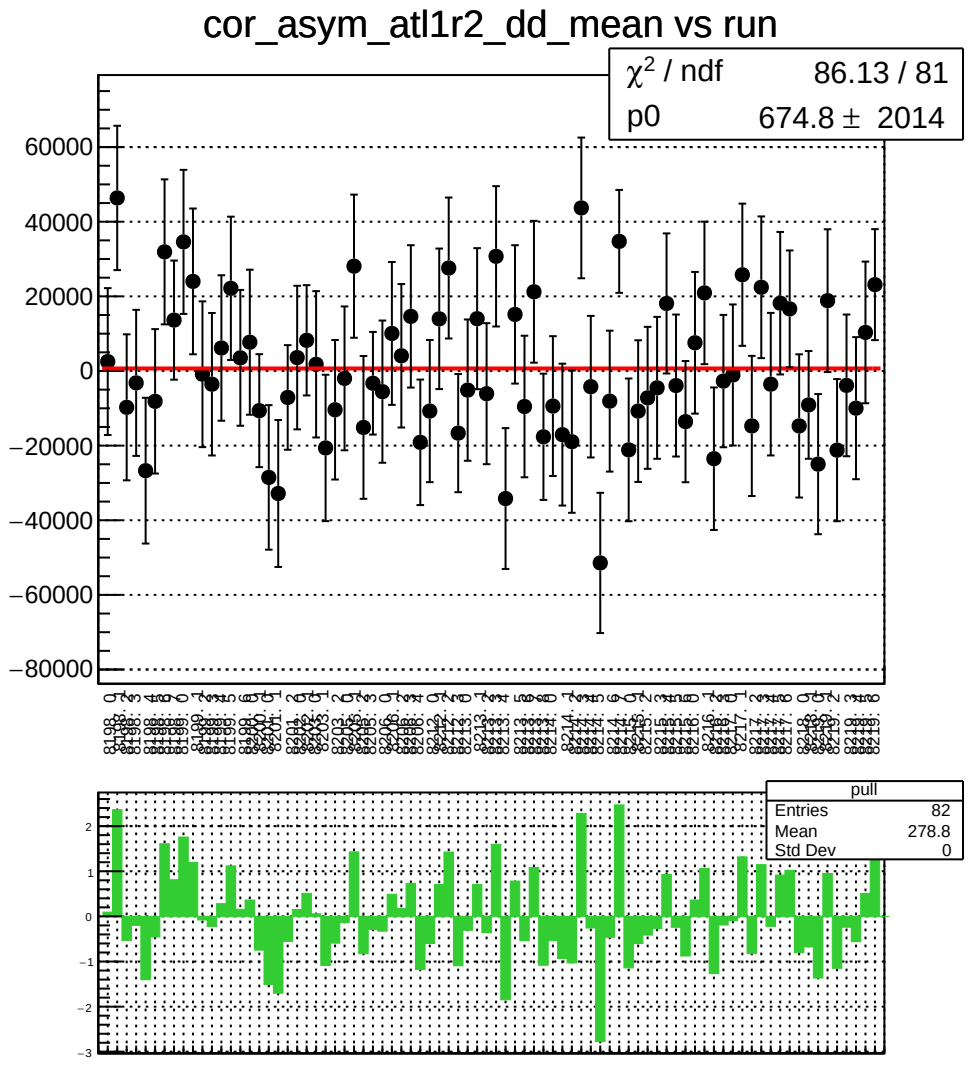

pull1D
Entries 82
Mean −0.006224
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

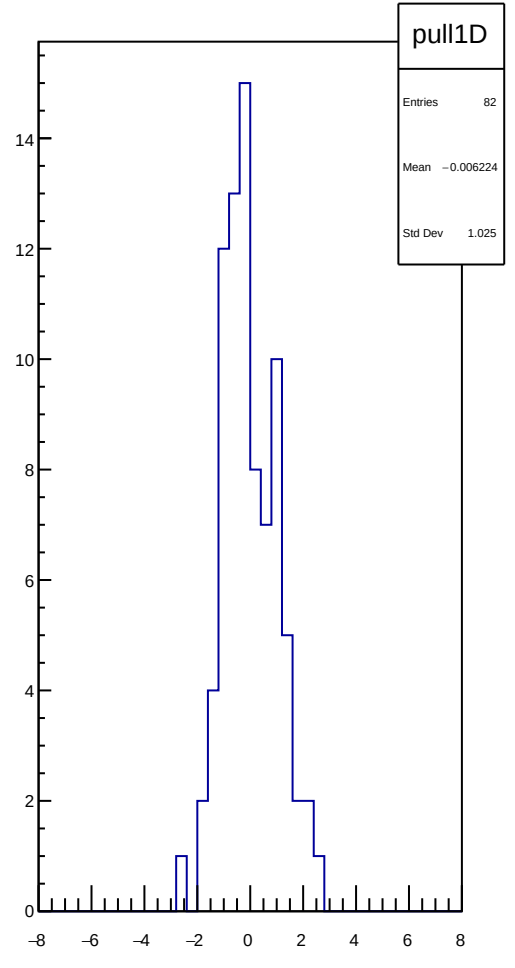

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 292.1 / 81
p0 1813 ± 1.424
1880
1860
1840
1820
1800
1780
1760
1740

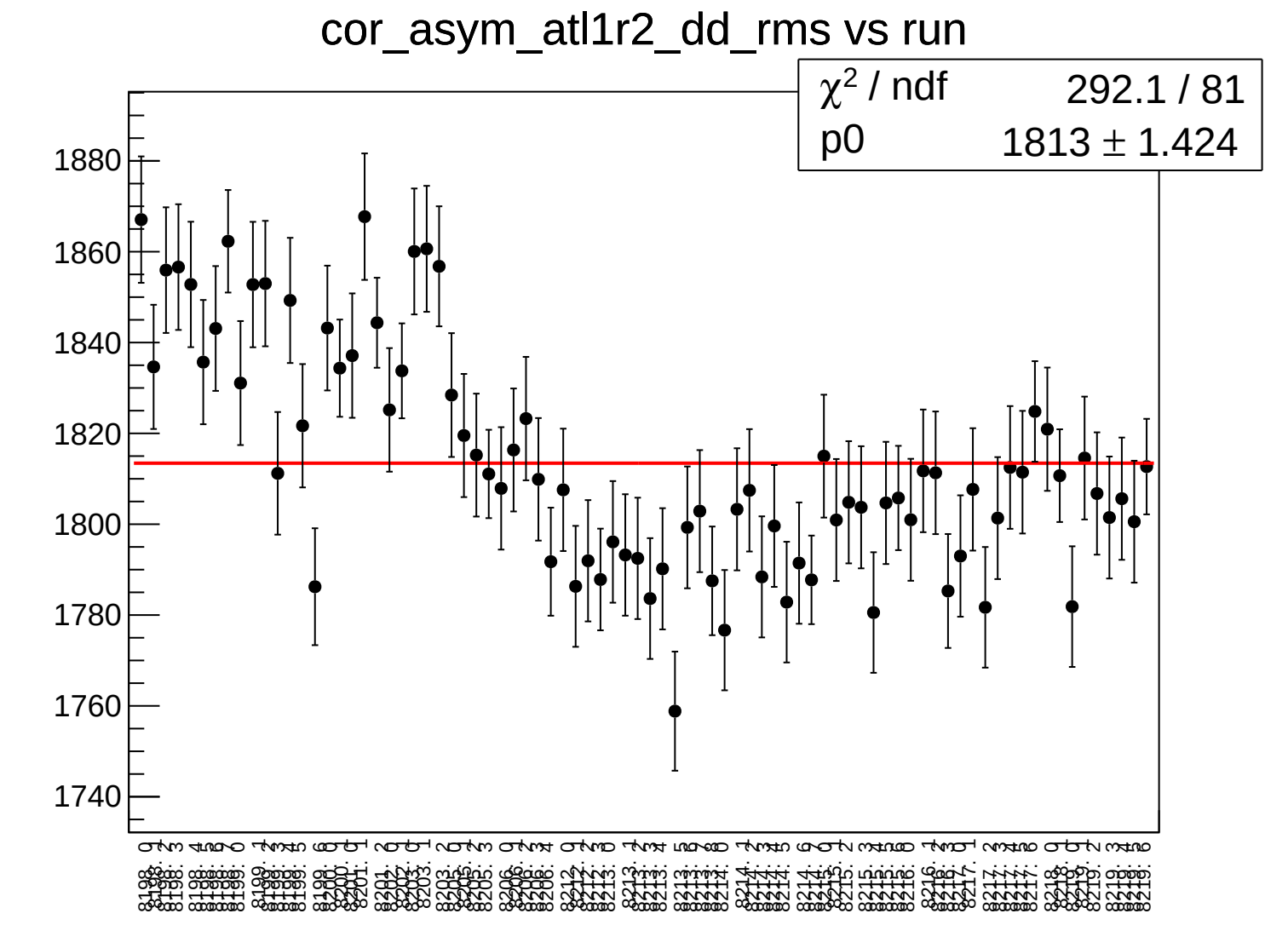

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.5 / 81
p0 −2029 ± 8302
300
200
100
0
−100
−200
pull
Entries 82
Mean 31.72
Std Dev 0
3
2
1
0
−1
−2

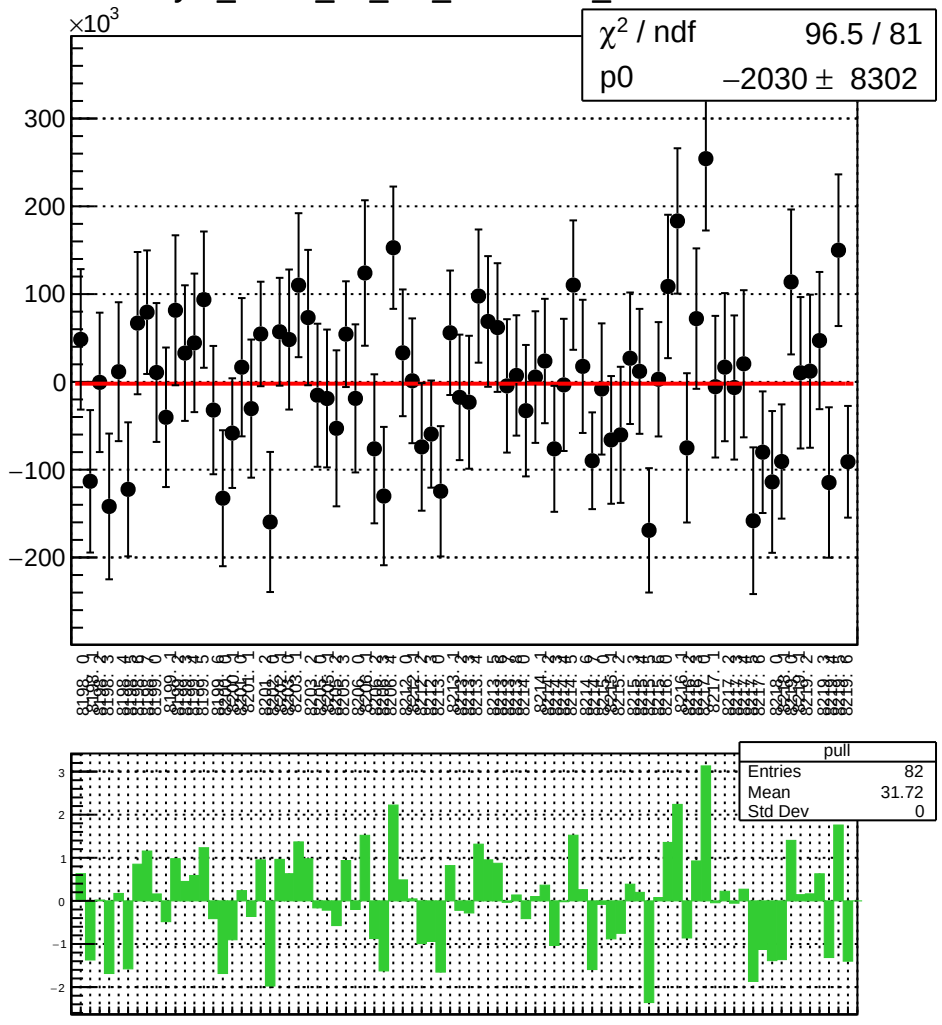

pull1D
Entries 82
Mean 0.01315
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

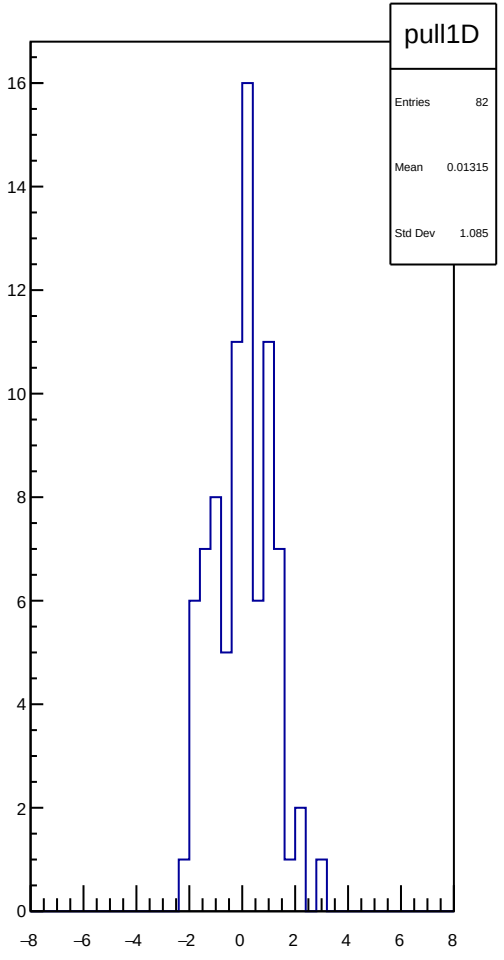

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 5569 / 81
p0 7462 ± 5.87
8500
8000
7500
7000
6500

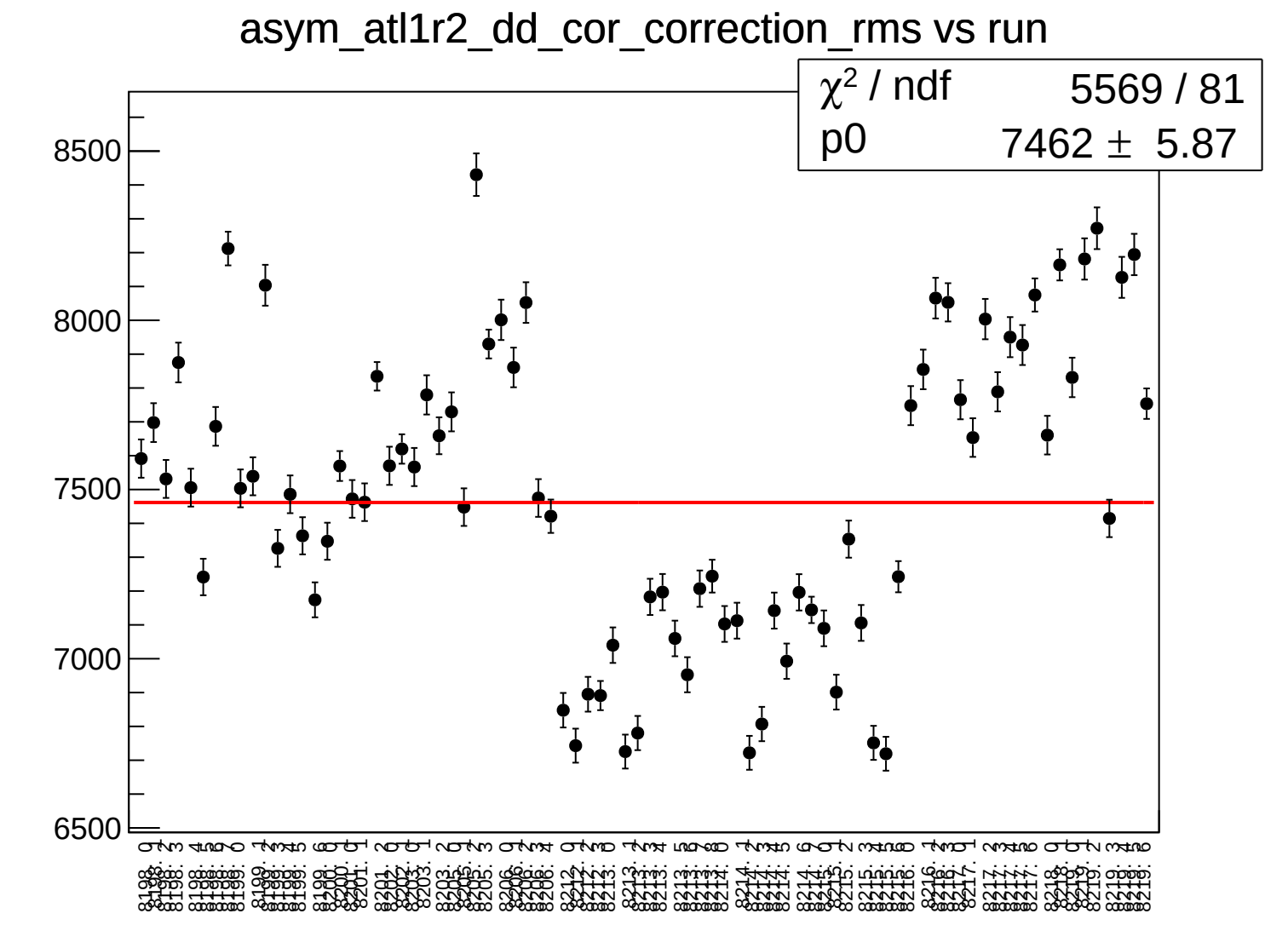

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 86.13 / 81
p0 674.8 ± 2014
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 278.8
Std Dev 0
2
1
0
−1
−2
−3

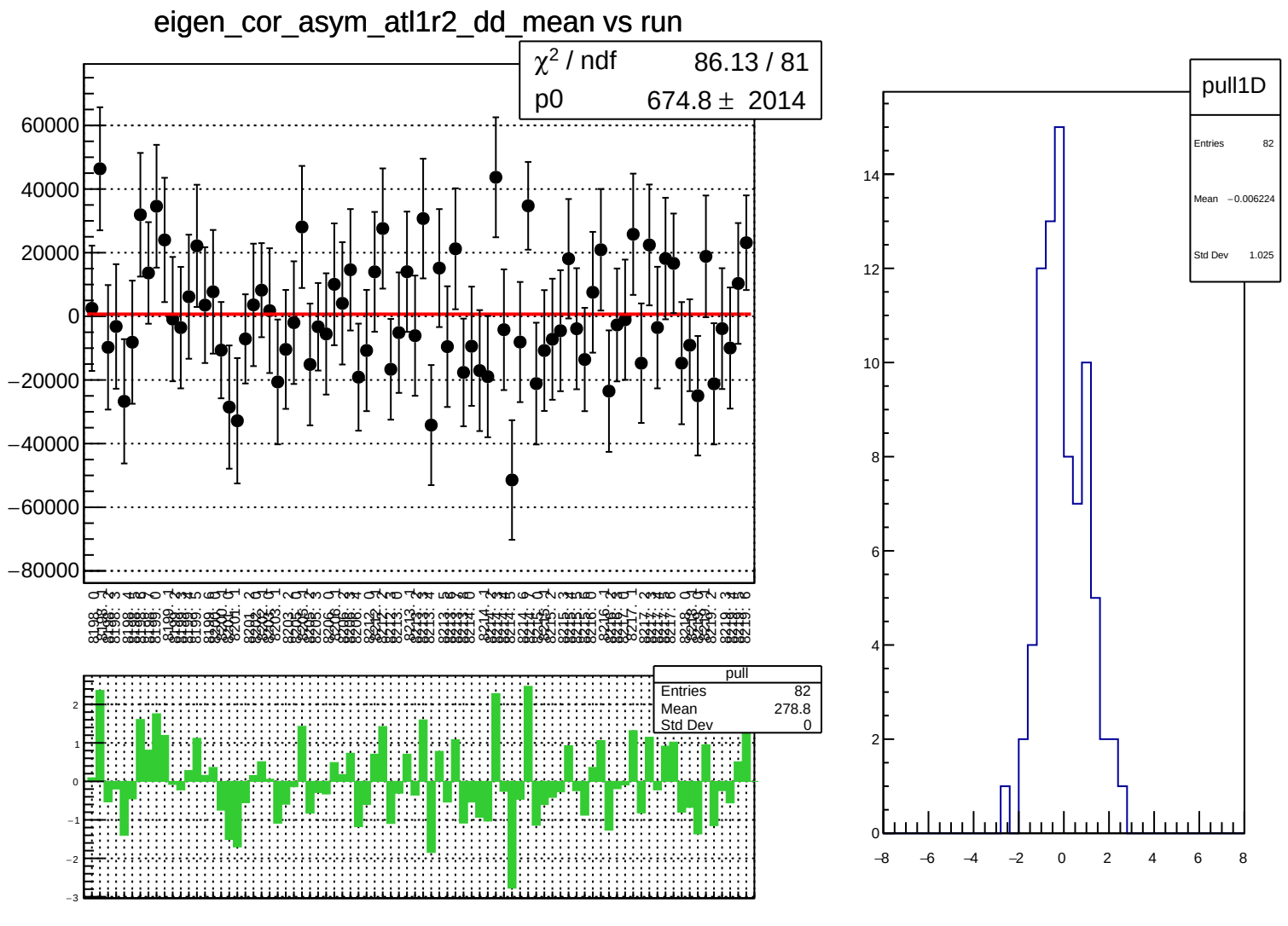

pull1D
Entries 82
Mean −0.006224
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

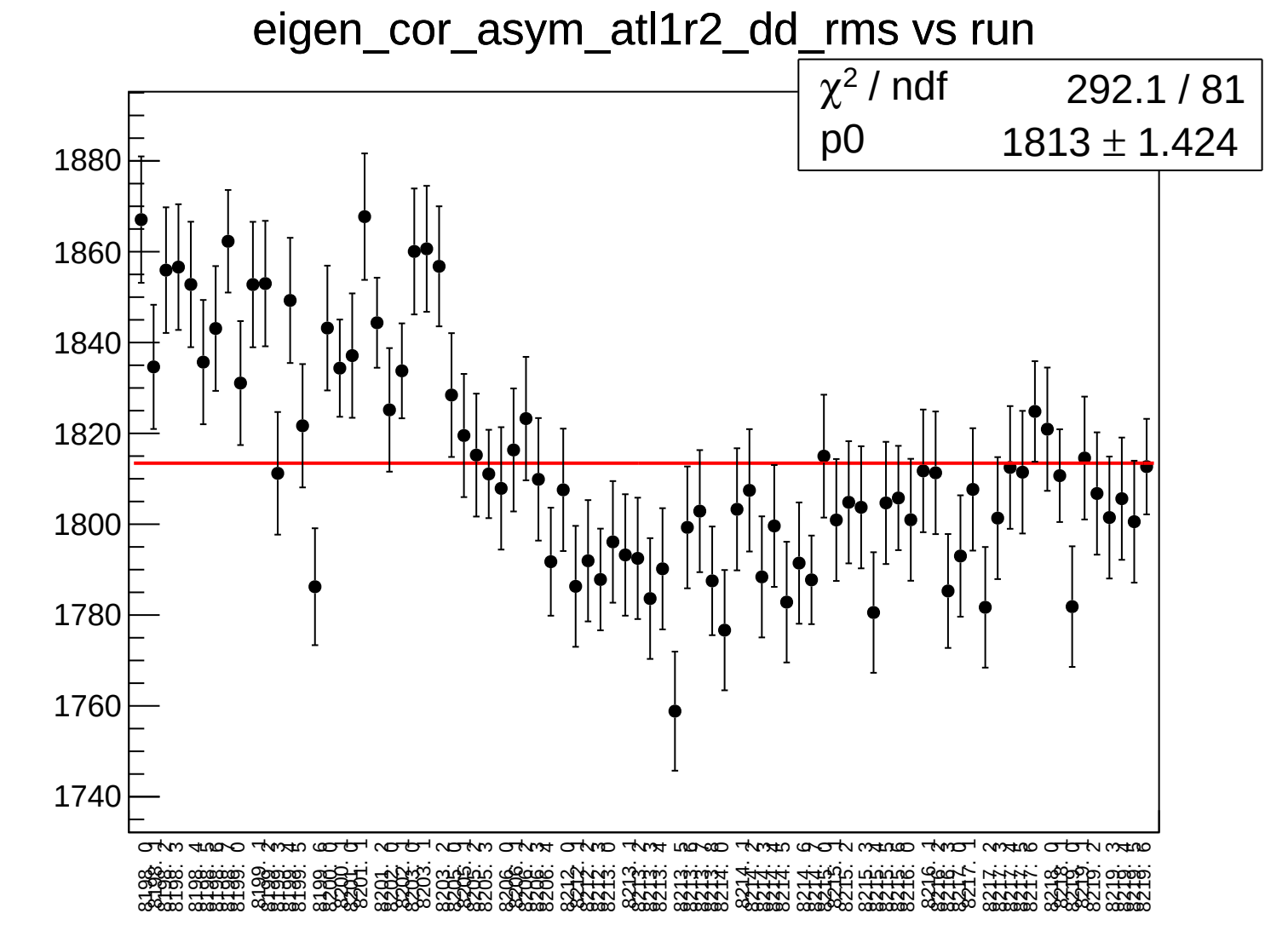

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 292.1 / 81
p0 1813 ± 1.424
1880
1860
1840
1820
1800
1780
1760
1740

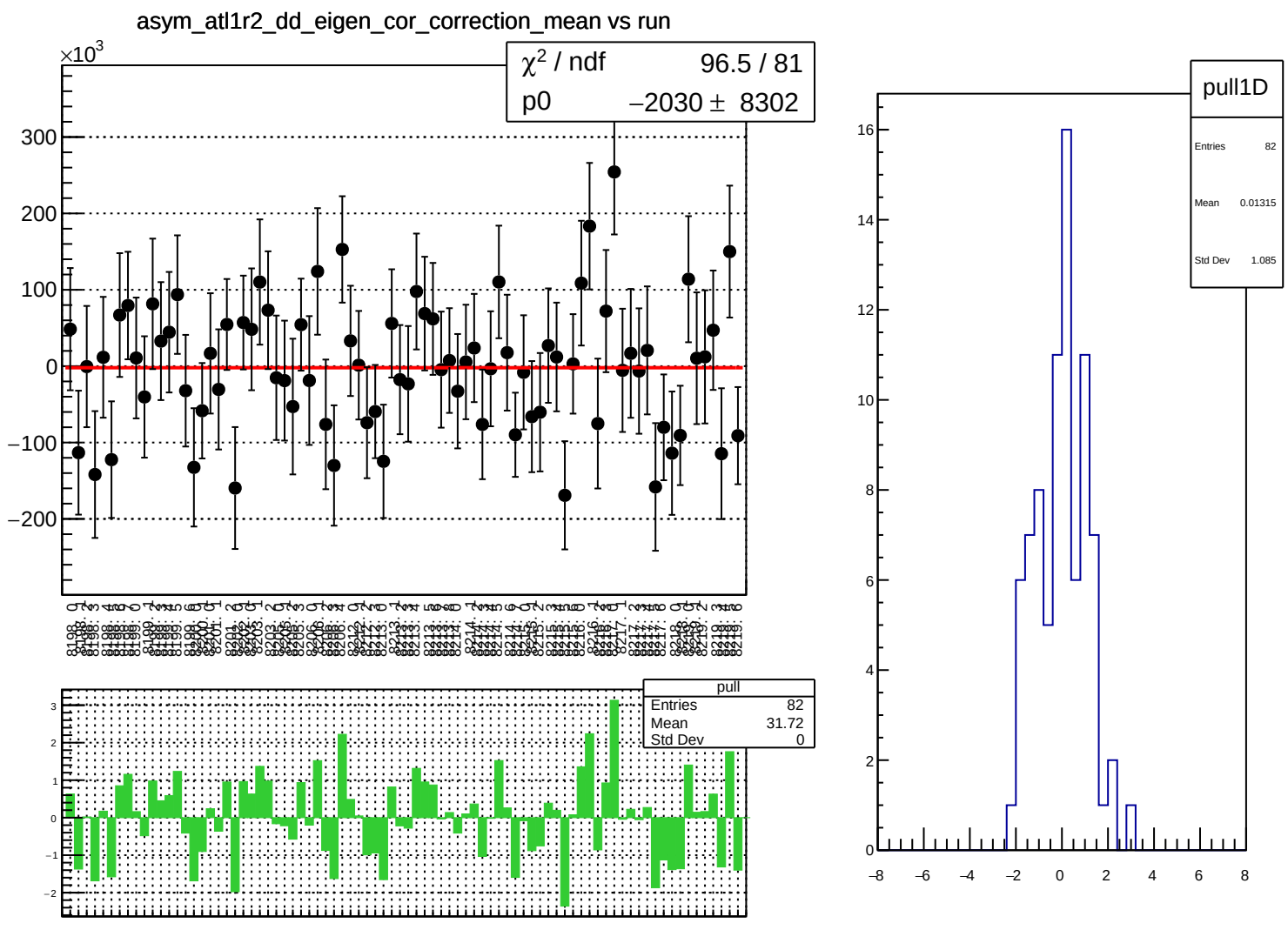

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.5 / 81
p0 −2030 ± 8302
300
200
100
0
−100
−200
pull
Entries 82
Mean 31.72
Std Dev 0
3
2
1
0
−1
−2

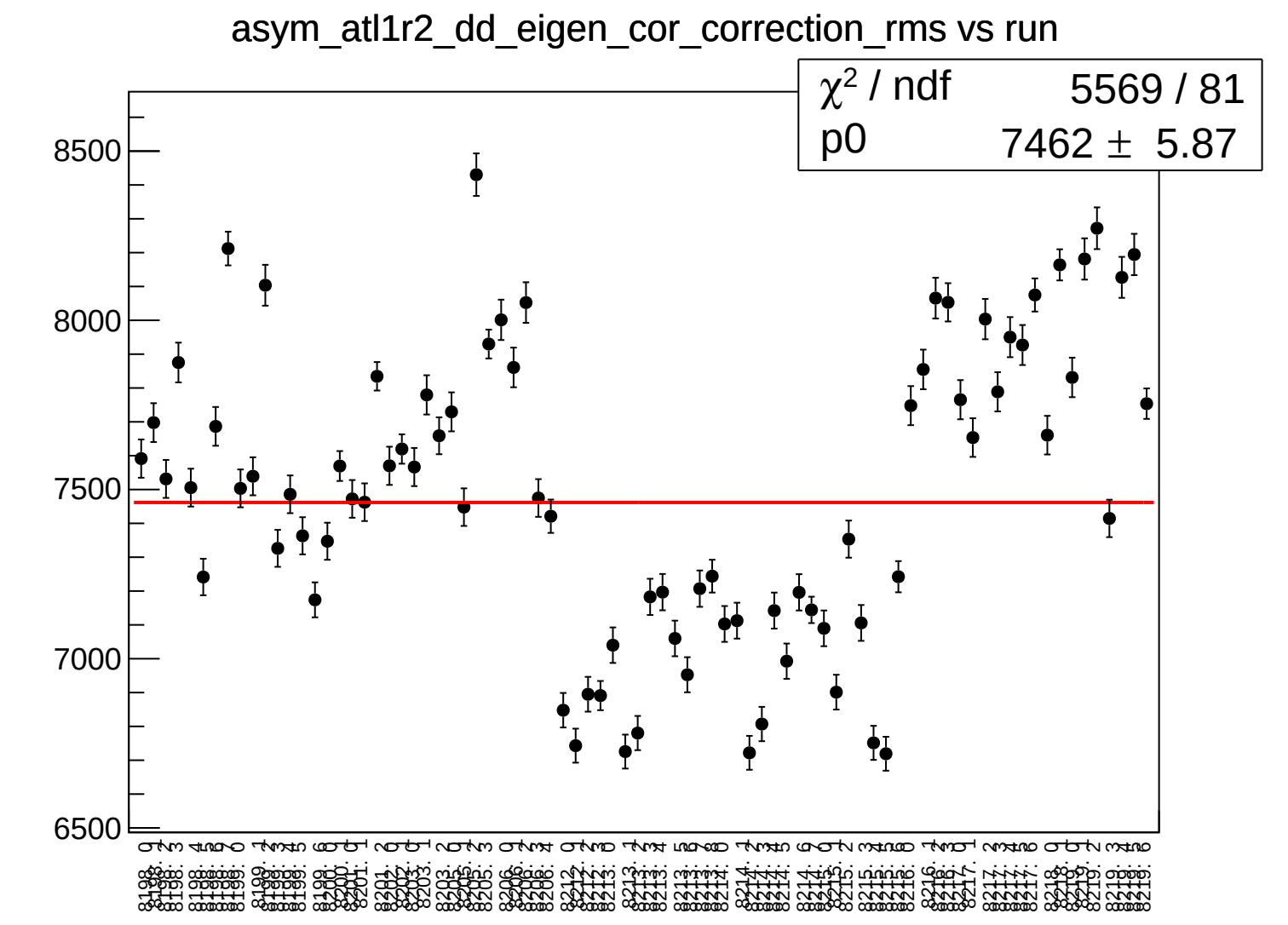

pull1D
Entries 82
Mean 0.01315
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

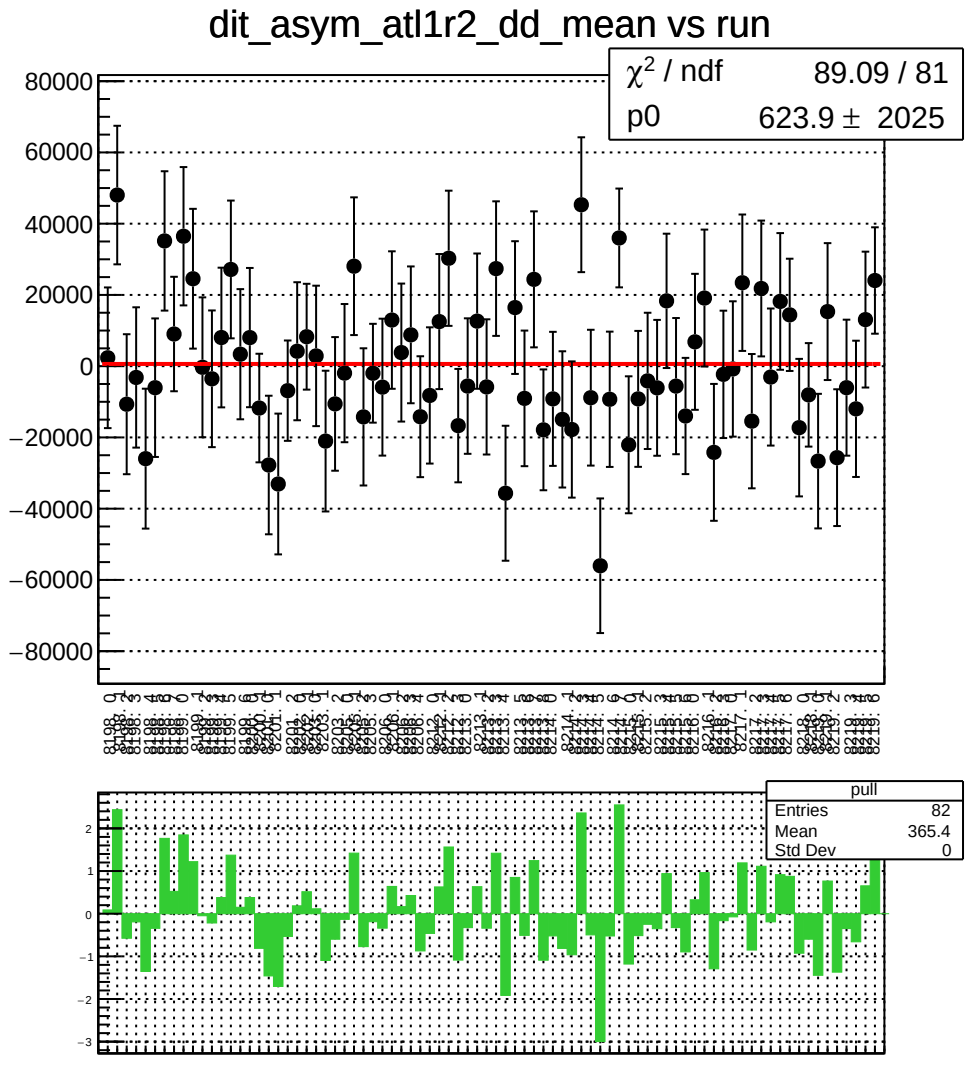

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 5569 / 81
p0 7462 ± 5.87
8500
8000
7500
7000
6500

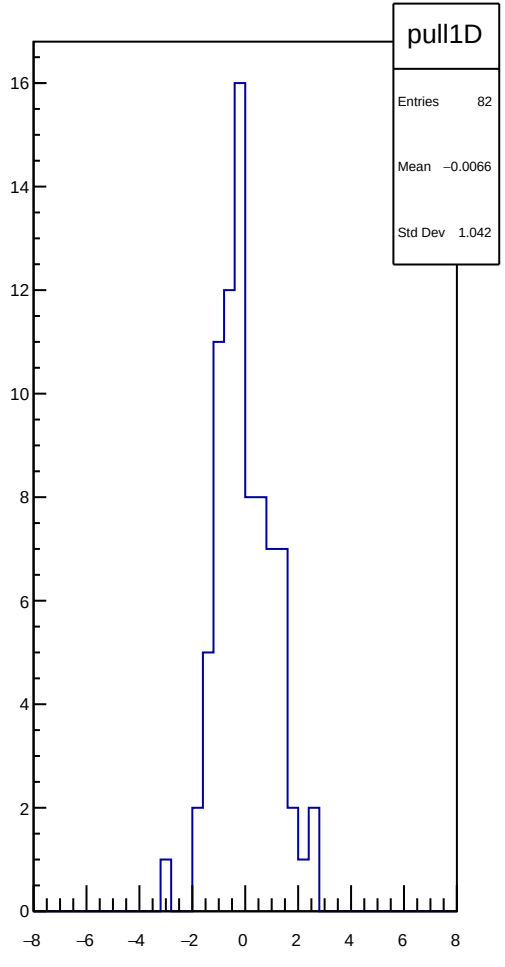

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 86.13 / 81
p0 674.8 ± 2014
pull
Entries 82
Mean 278.8
Std Dev 0
pull1D
Entries 82
Mean −0.006224
Std Dev 1.025

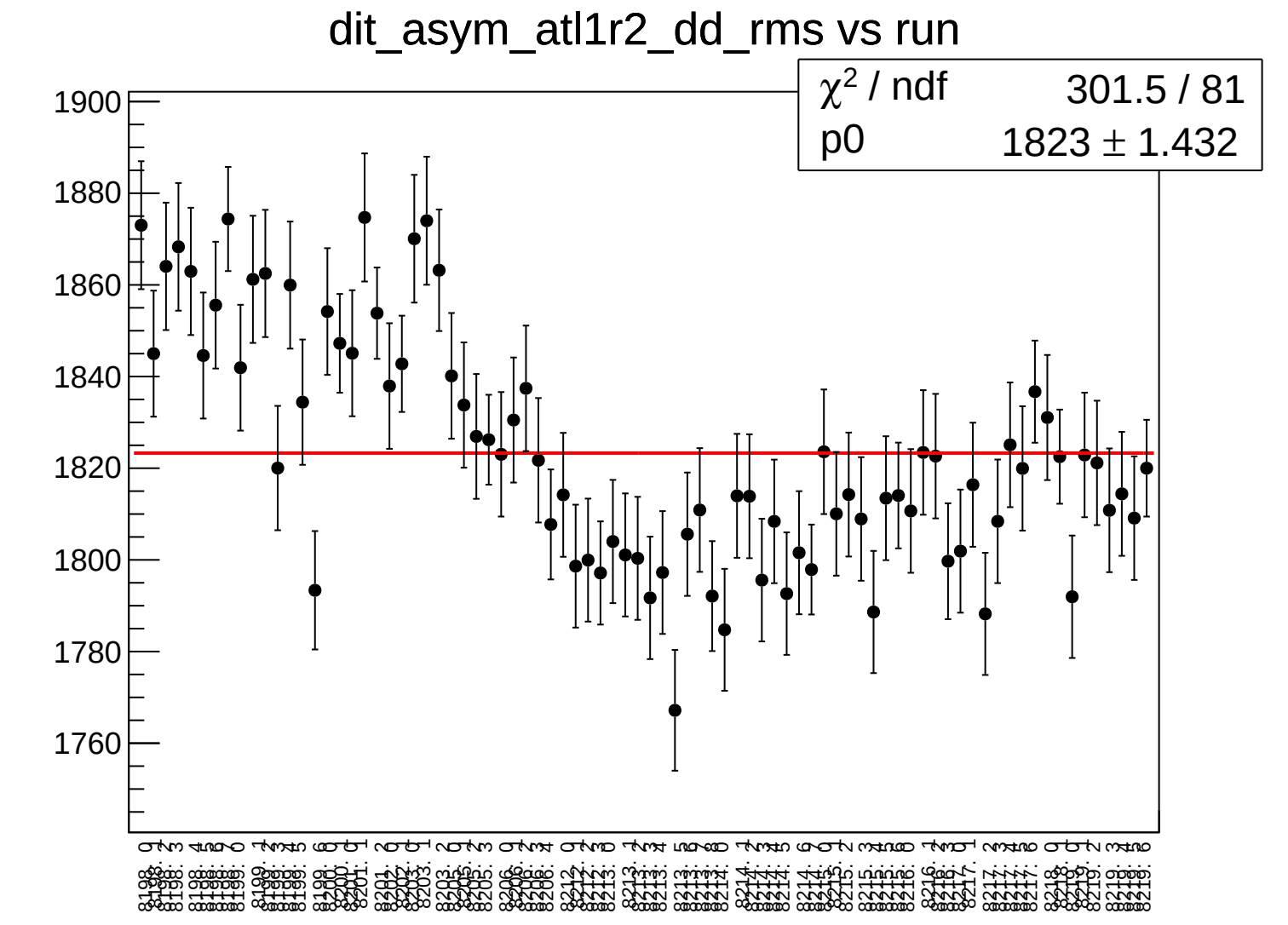

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 292.1 / 81
p0 1813 ± 1.424
1880
1860
1840
1820
1800
1780
1760
1740

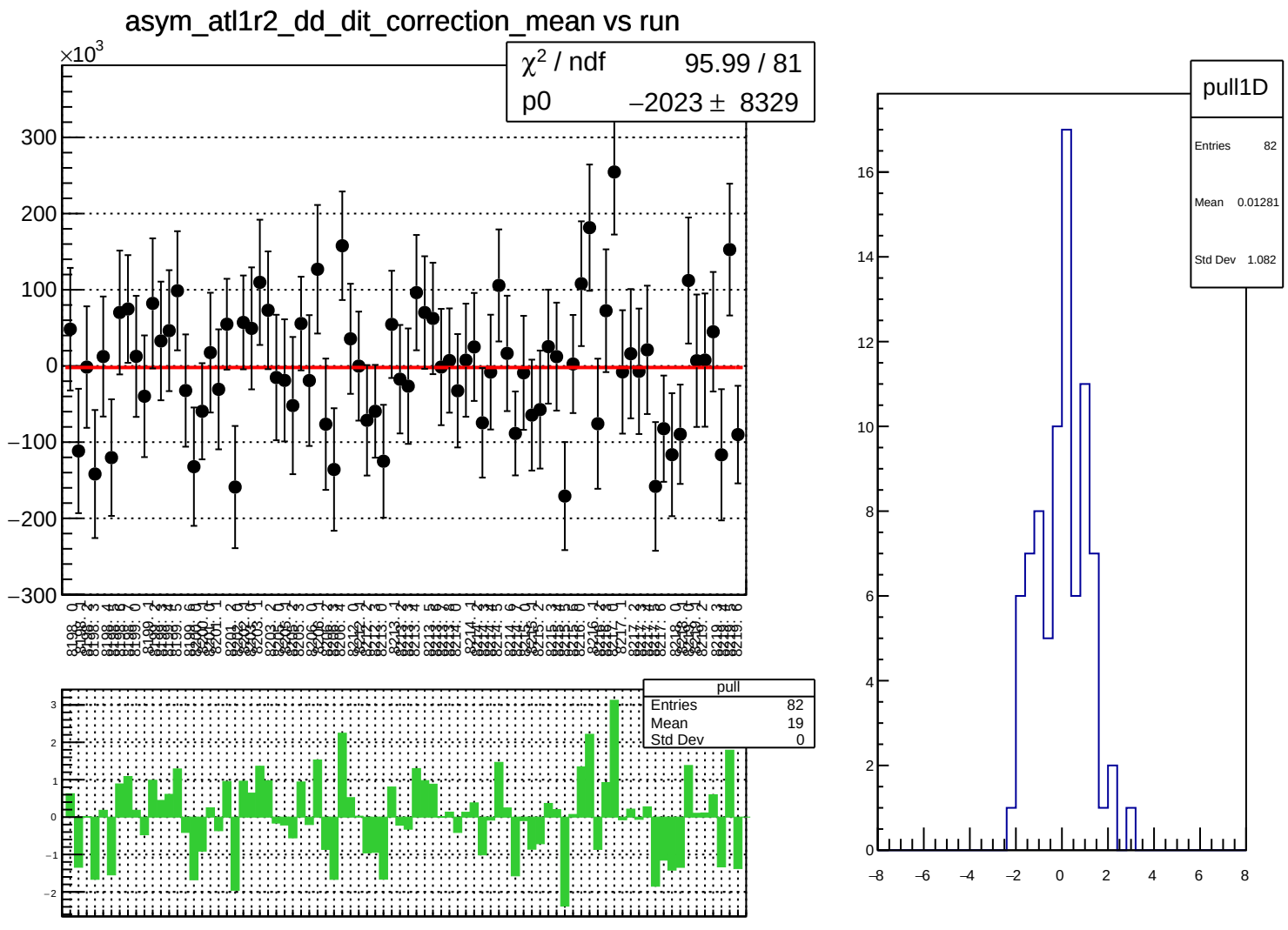

asym_atl1r2_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.5 / 81
p0 −2030 ± 8302
×10³
300
200
100
0
−100
−200
pull
Entries 82
Mean 31.72
Std Dev 0
pull1D
Entries 82
Mean 0.01315
Std Dev 1.085

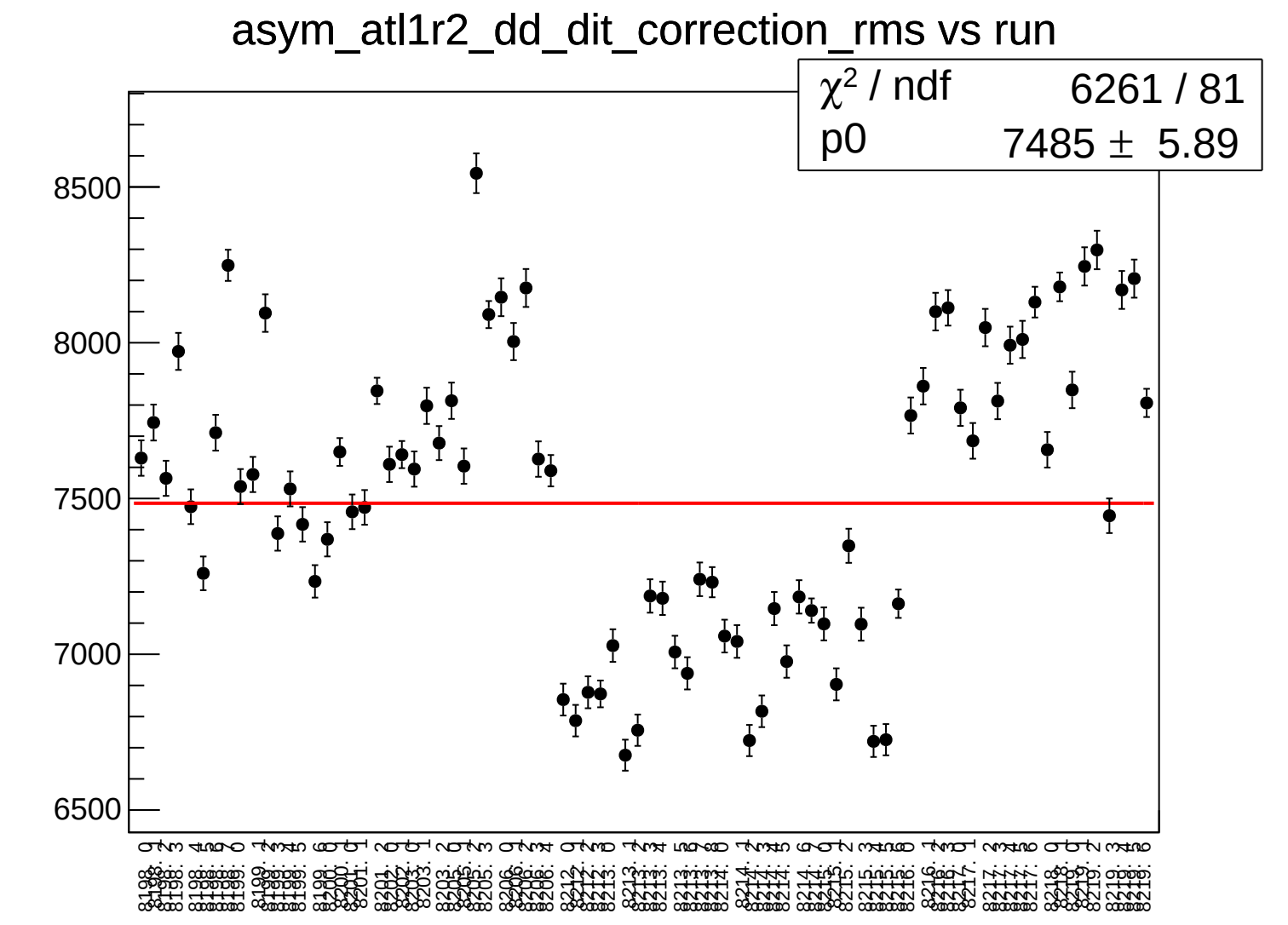

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5569 / 81
p0 7462 ± 5.87
8500
8000
7500
7000
6500

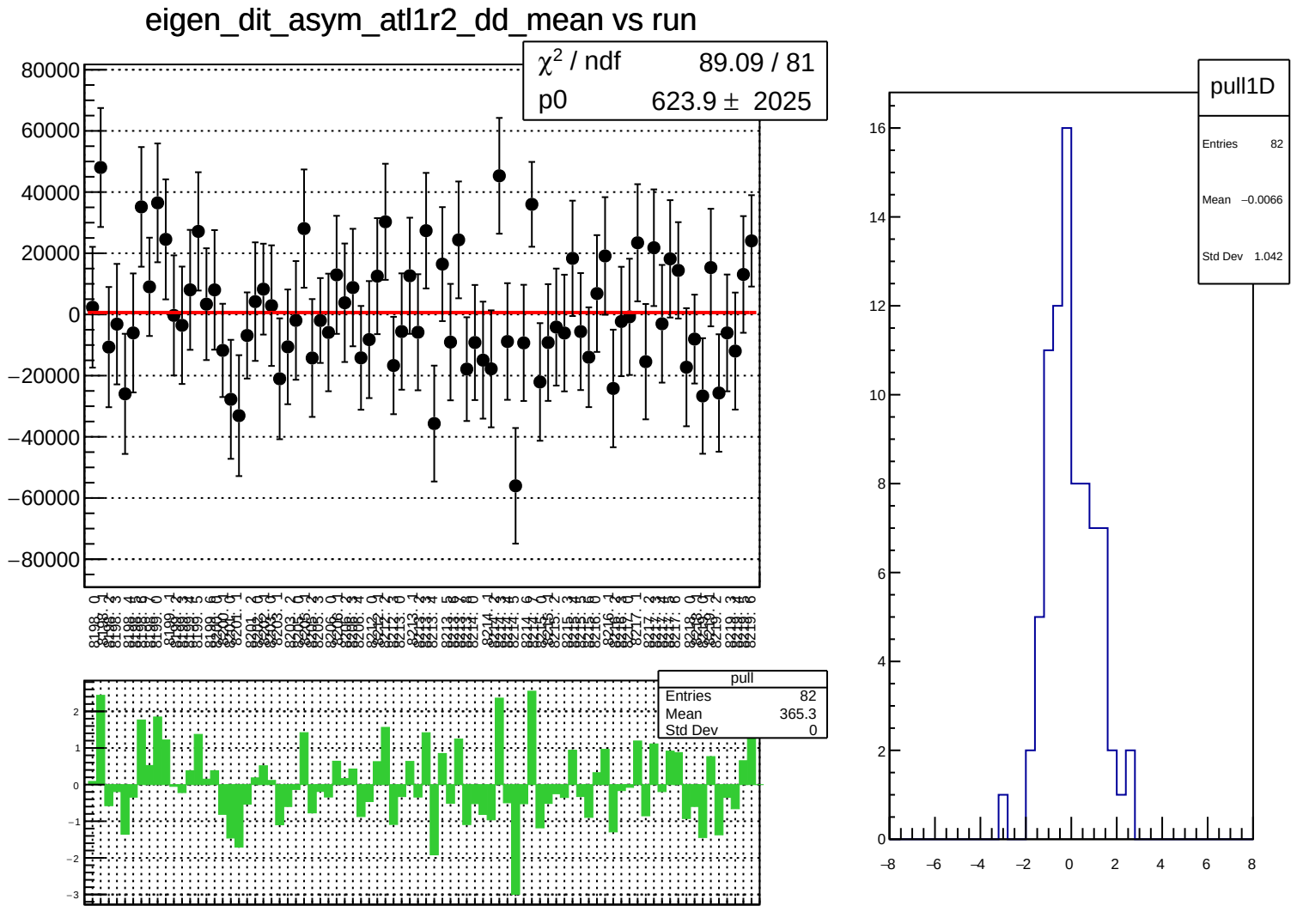

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 89.09 / 81
p0 623.9 ± 2025
pull
Entries 82
Mean 365.4
Std Dev 0

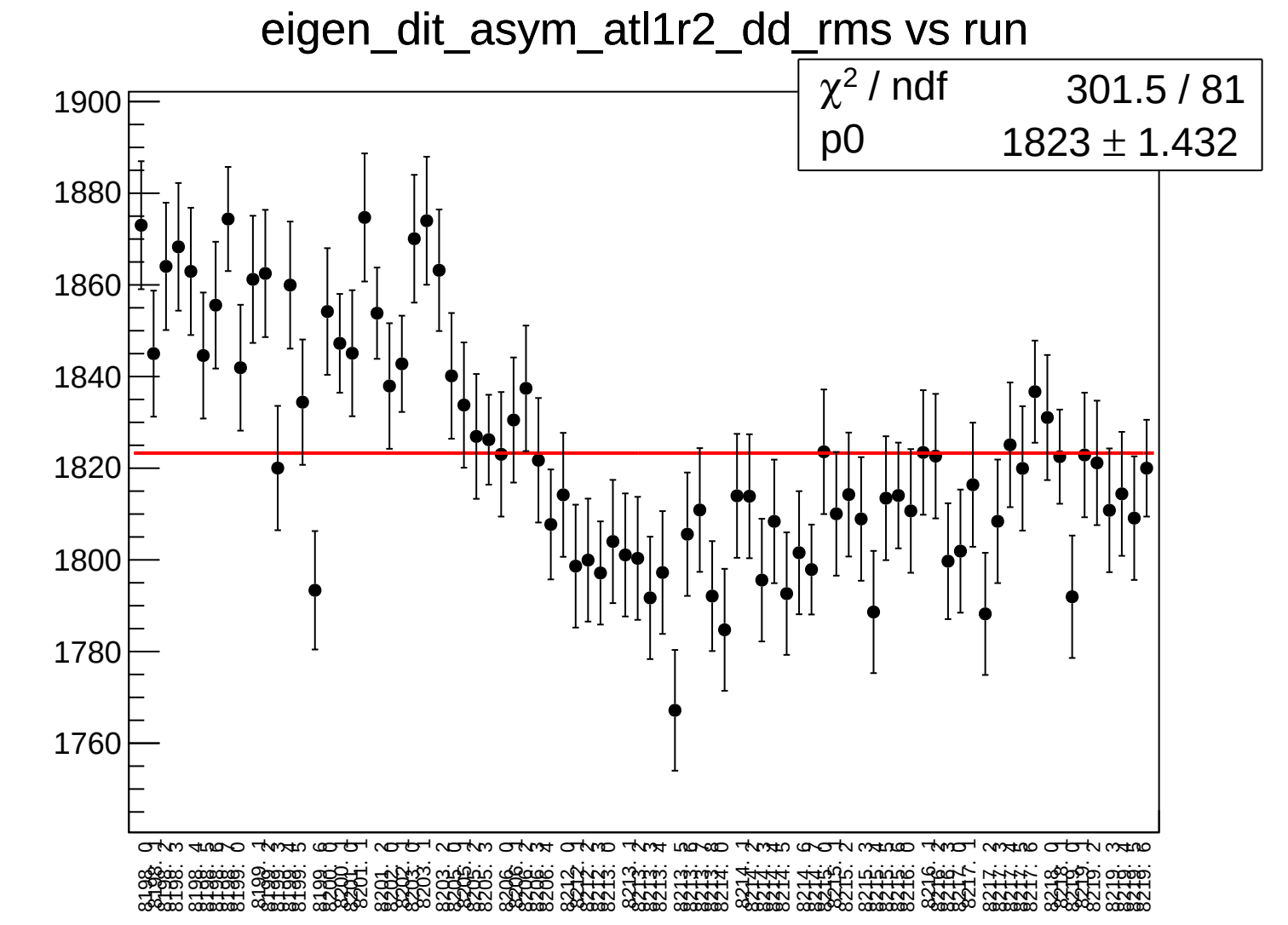

pull1D
Entries 82
Mean −0.0066
Std Dev 1.042

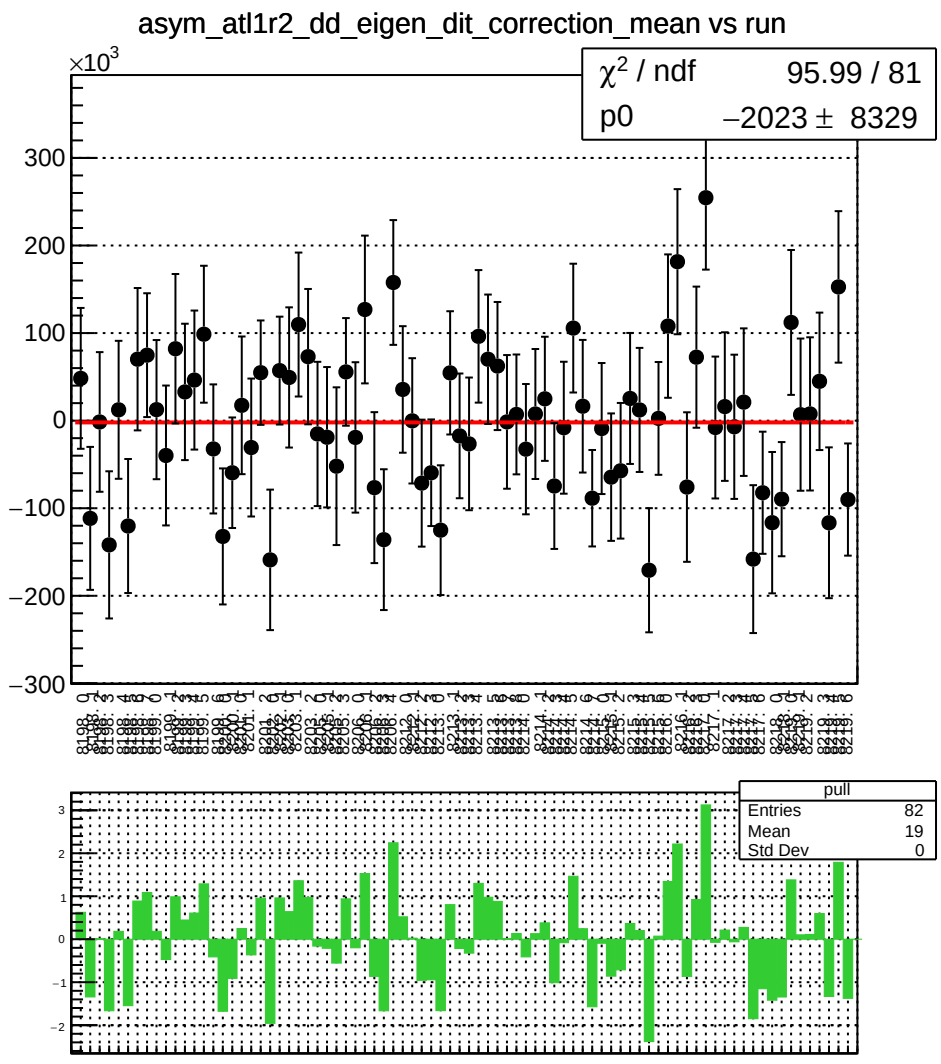

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 301.5 / 81
p0 1823 ± 1.432
1900
1880
1860
1840
1820
1800
1780
1760

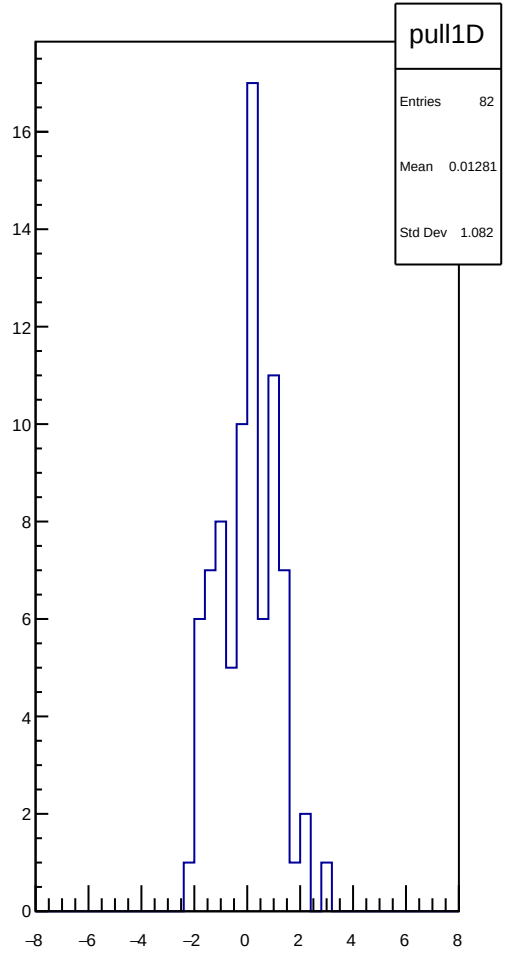

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.99 / 81
p0 −2023 ± 8329
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean 19
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01281
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

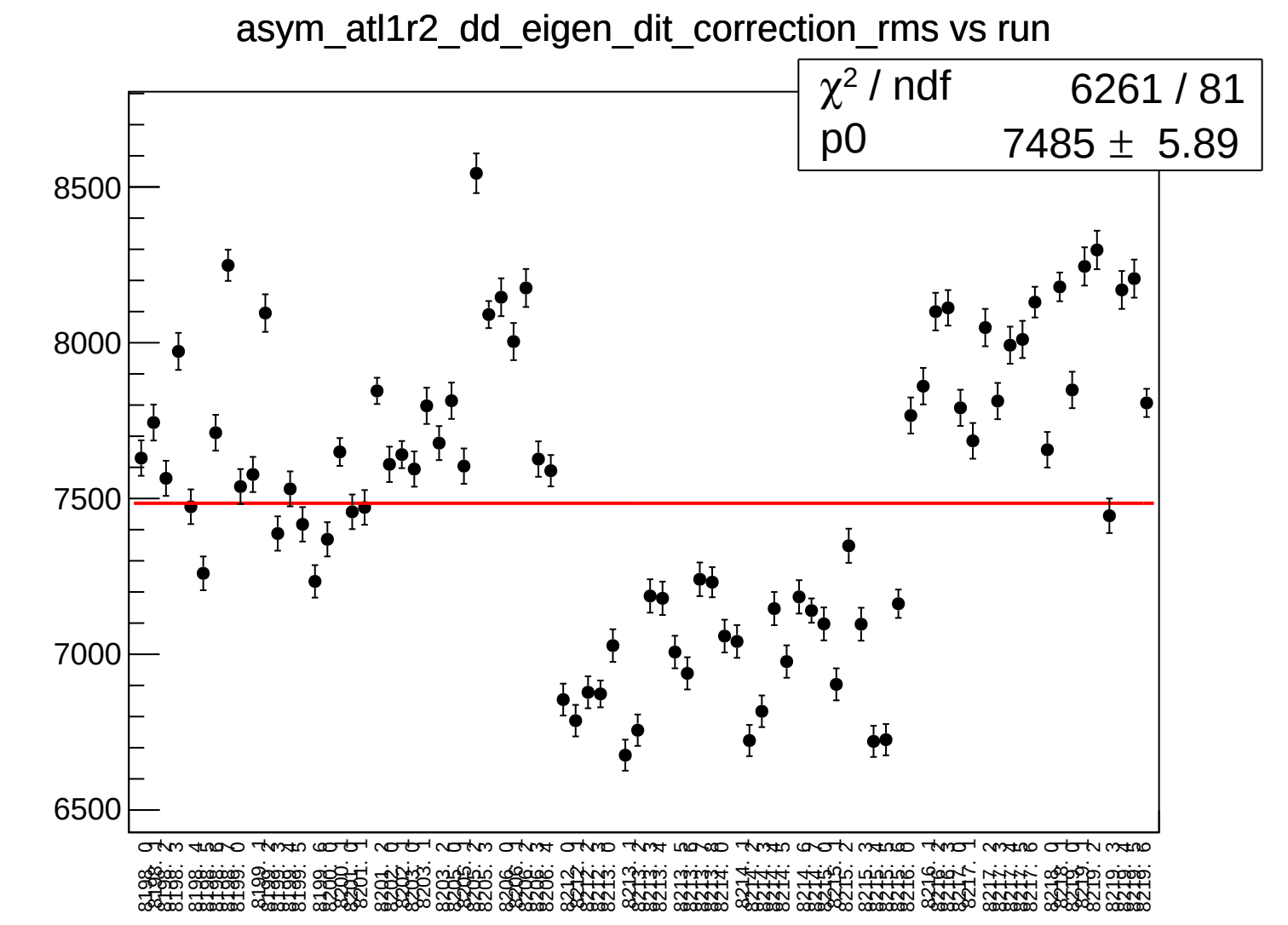

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 6261 / 81
p0 7485 ± 5.89
8500
8000
7500
7000
6500

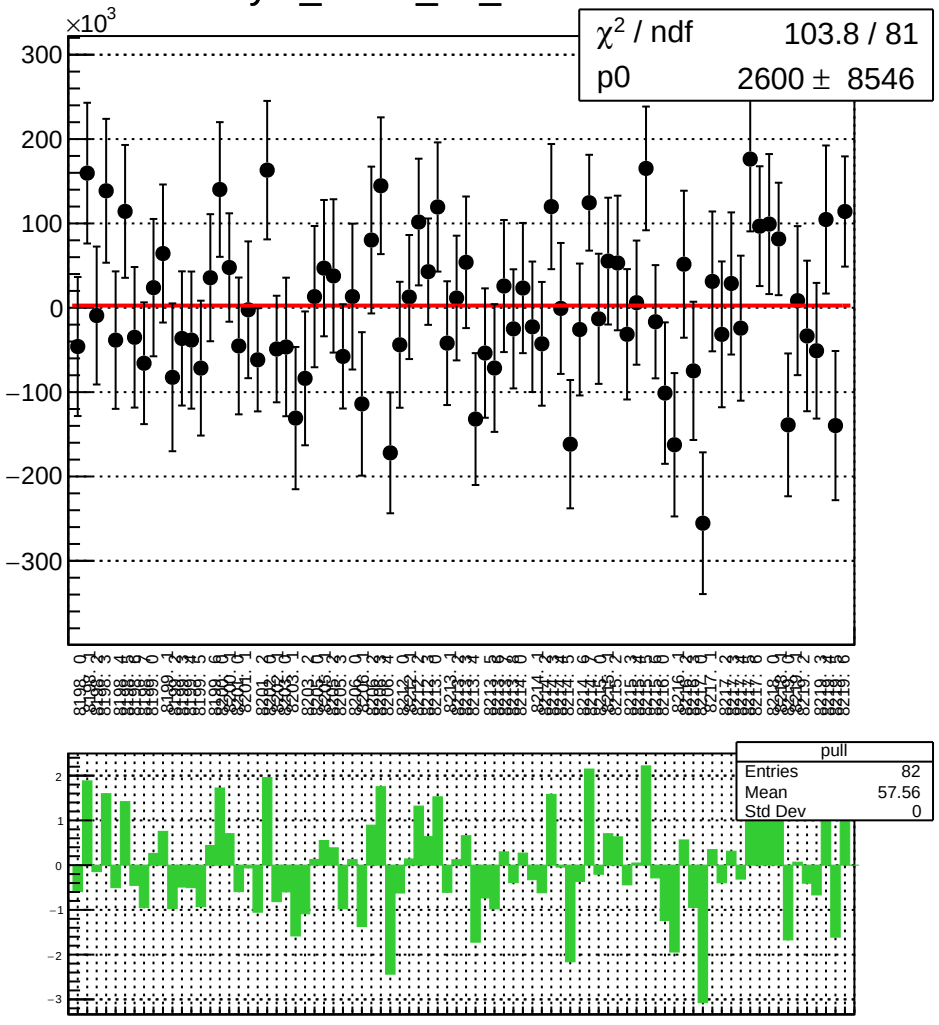

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 89.09 / 81
p0 623.9 ± 2025
pull
Entries 82
Mean 365.3
Std Dev 0
pull1D
Entries 82
Mean −0.0066
Std Dev 1.042

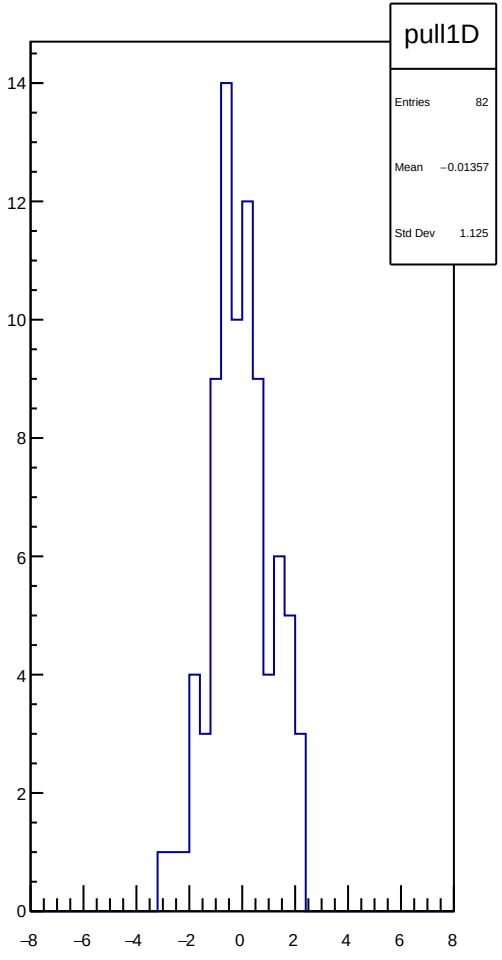

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 301.5 / 81
p0 1823 ± 1.432
1900
1880
1860
1840
1820
1800
1780
1760

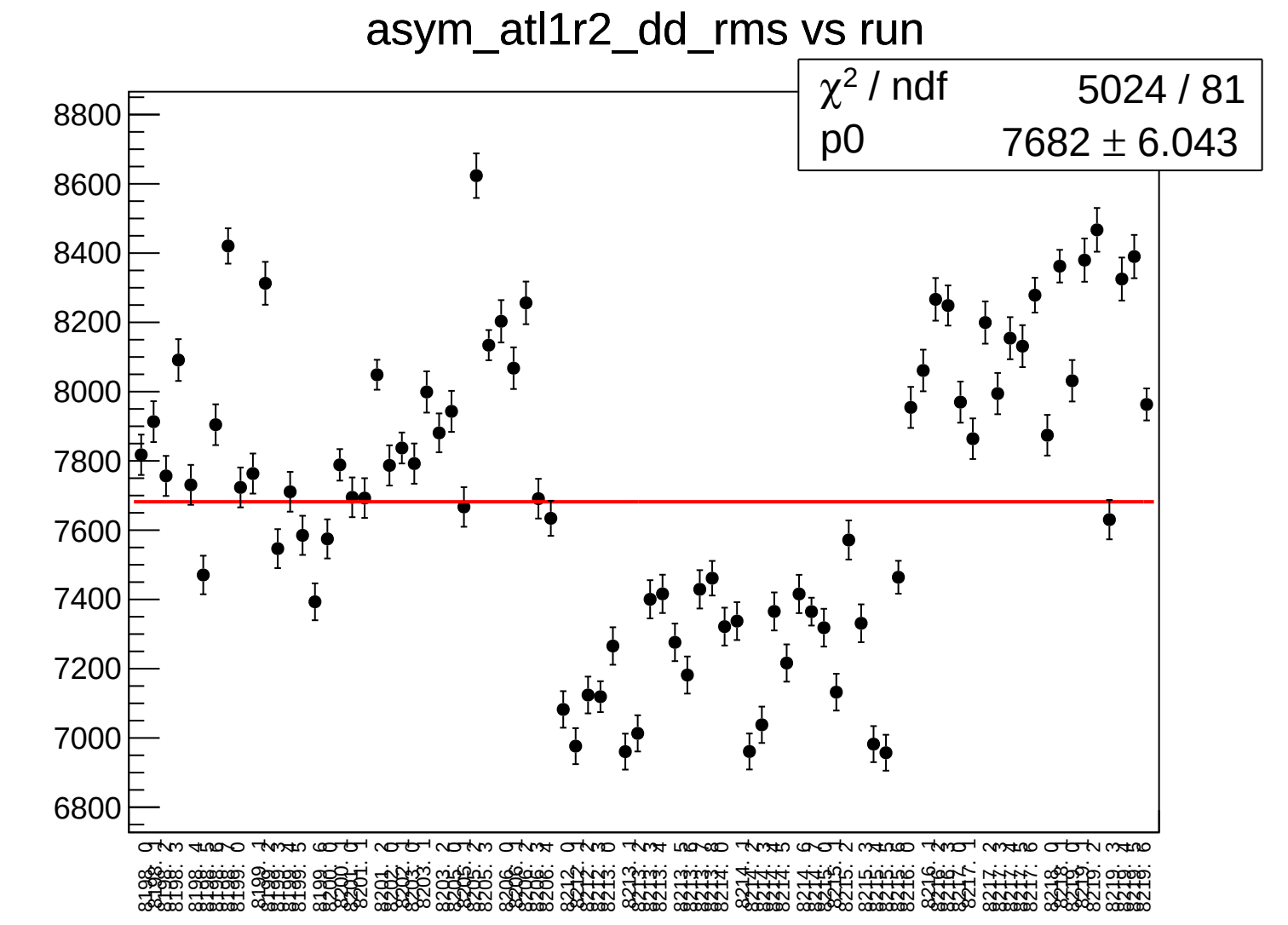

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.99 / 81
p0 −2023 ± 8329
pull
Entries 82
Mean 19
Std Dev 0

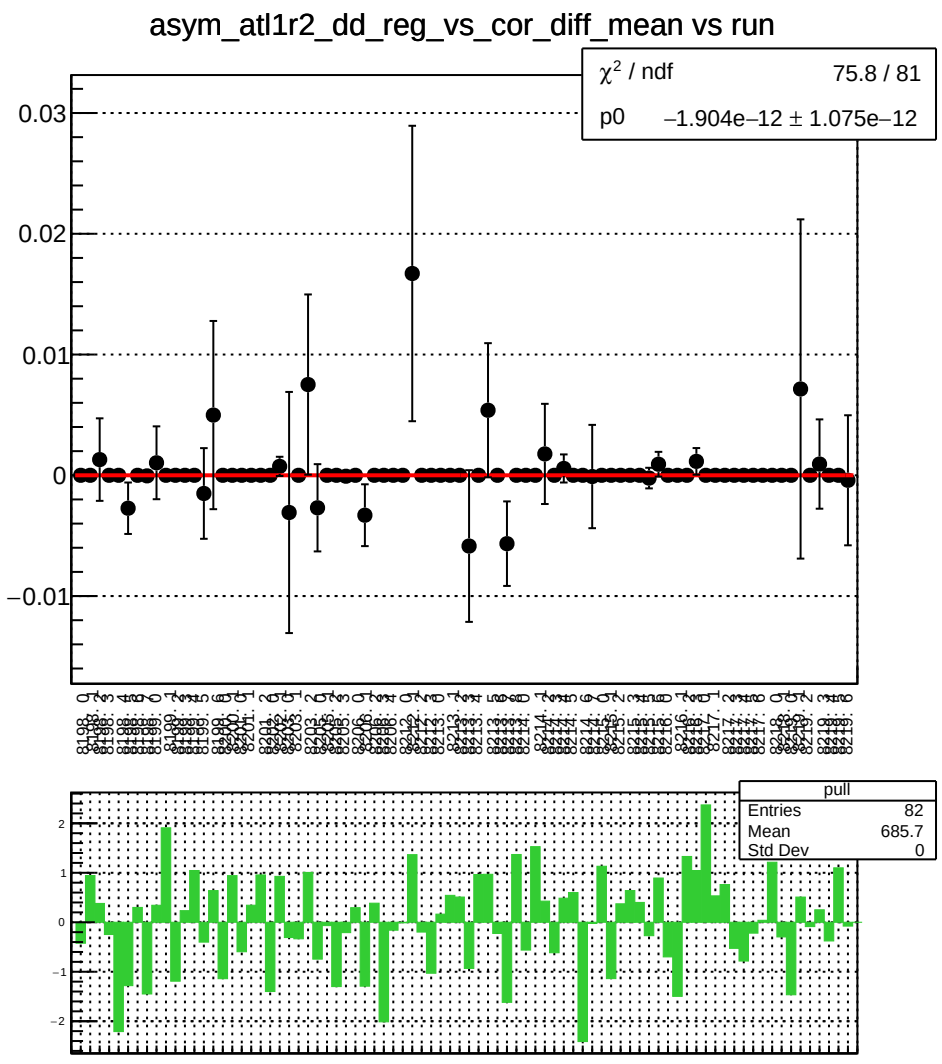

pull1D
Entries 82
Mean 0.01281
Std Dev 1.082

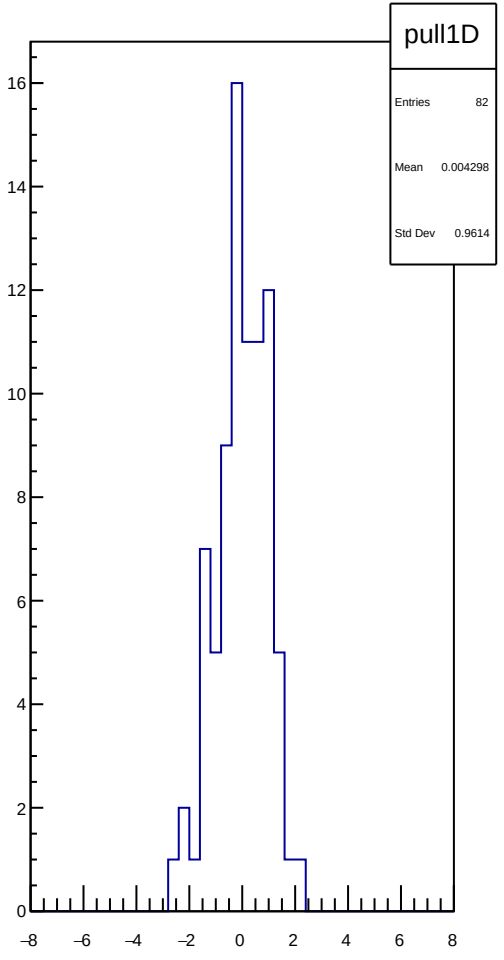

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6261 / 81
p0 7485 ± 5.89
8500
8000
7500
7000
6500

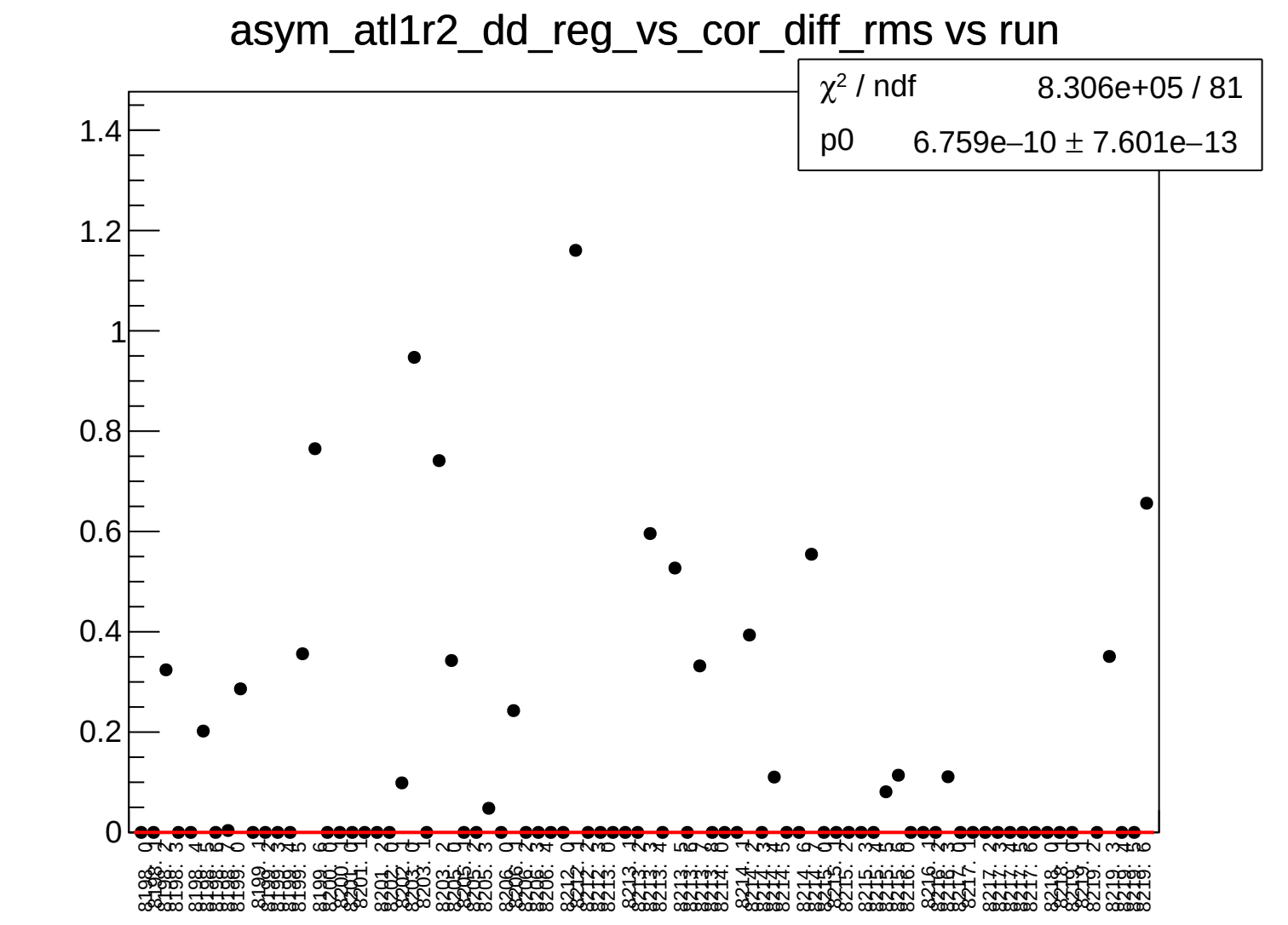

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 103.8 / 81
p0 2600 ± 8546
pull
Entries 82
Mean 57.56
Std Dev 0

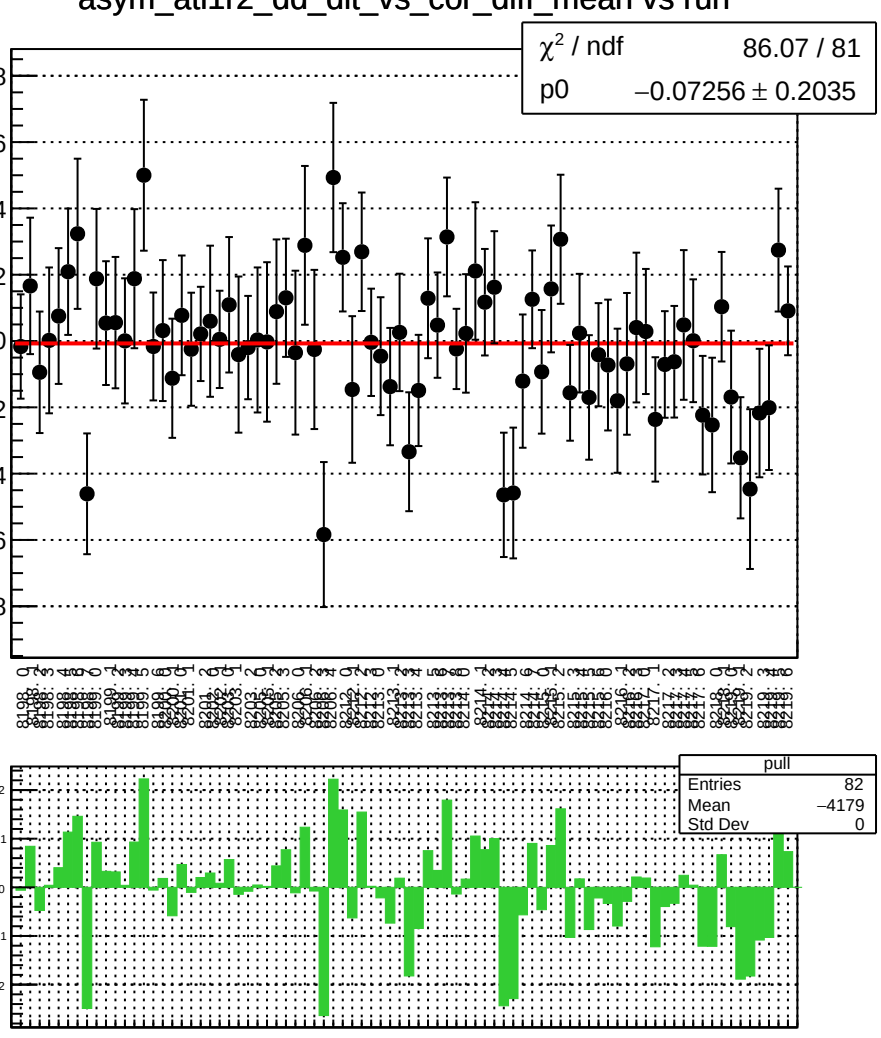

pull1D
Entries 82
Mean −0.01357
Std Dev 1.125

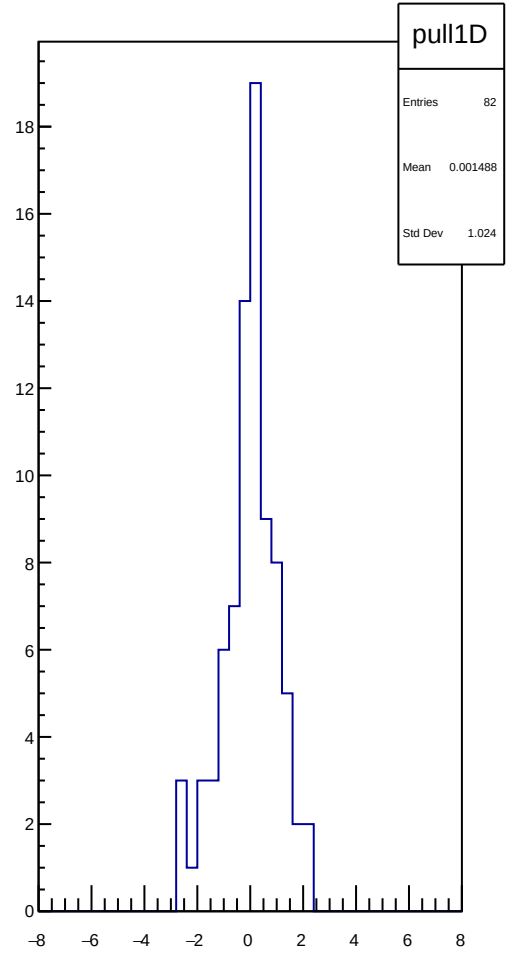

asym_atl1r2_dd_rms vs run
$\chi^2$ / ndf 5024 / 81
p0 7682 ± 6.043
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

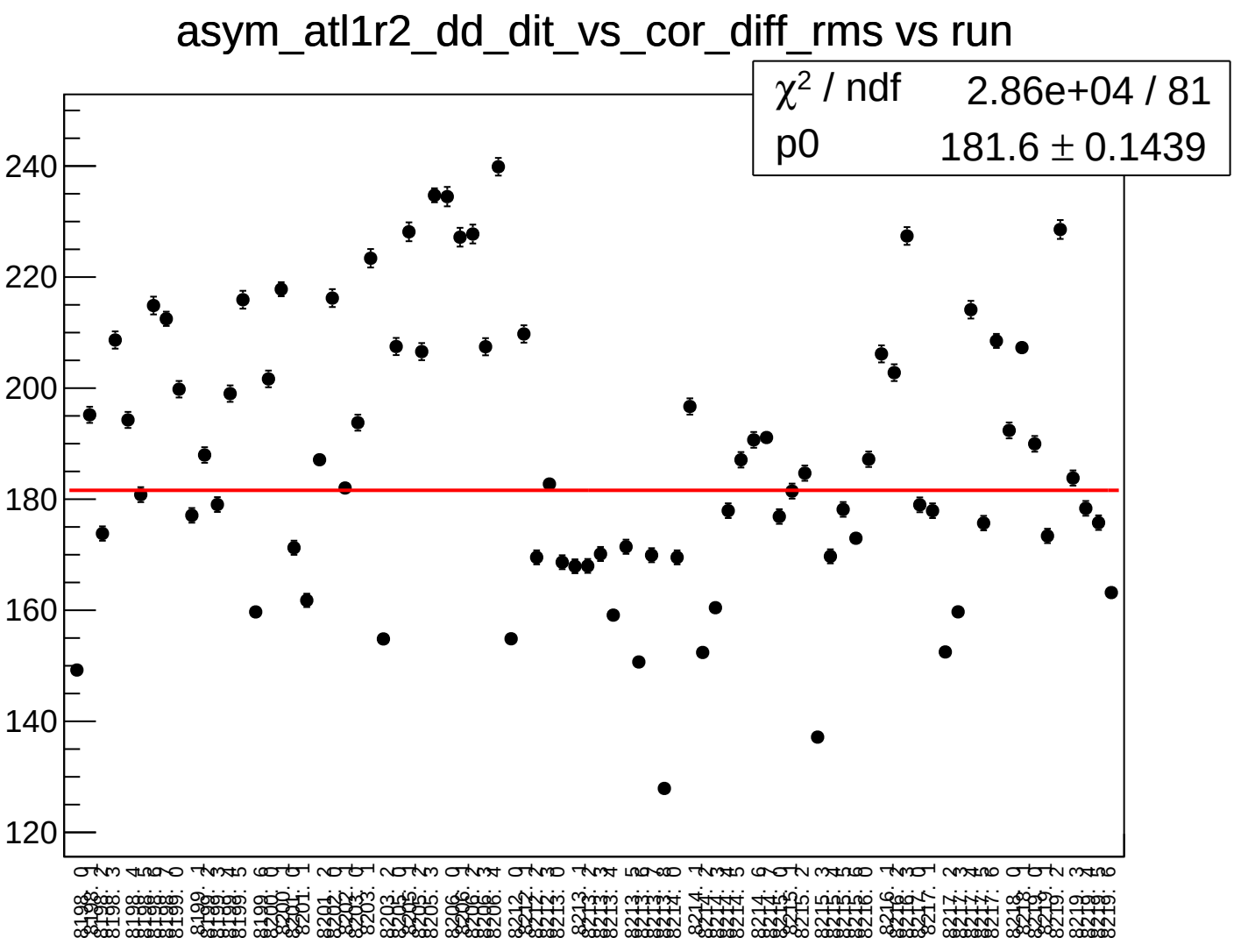

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.8 / 81
p0 −1.904e−12 ± 1.075e−12
0.03
0.02
0.01
0
−0.01
pull
Entries 82
Mean 685.7
Std Dev 0

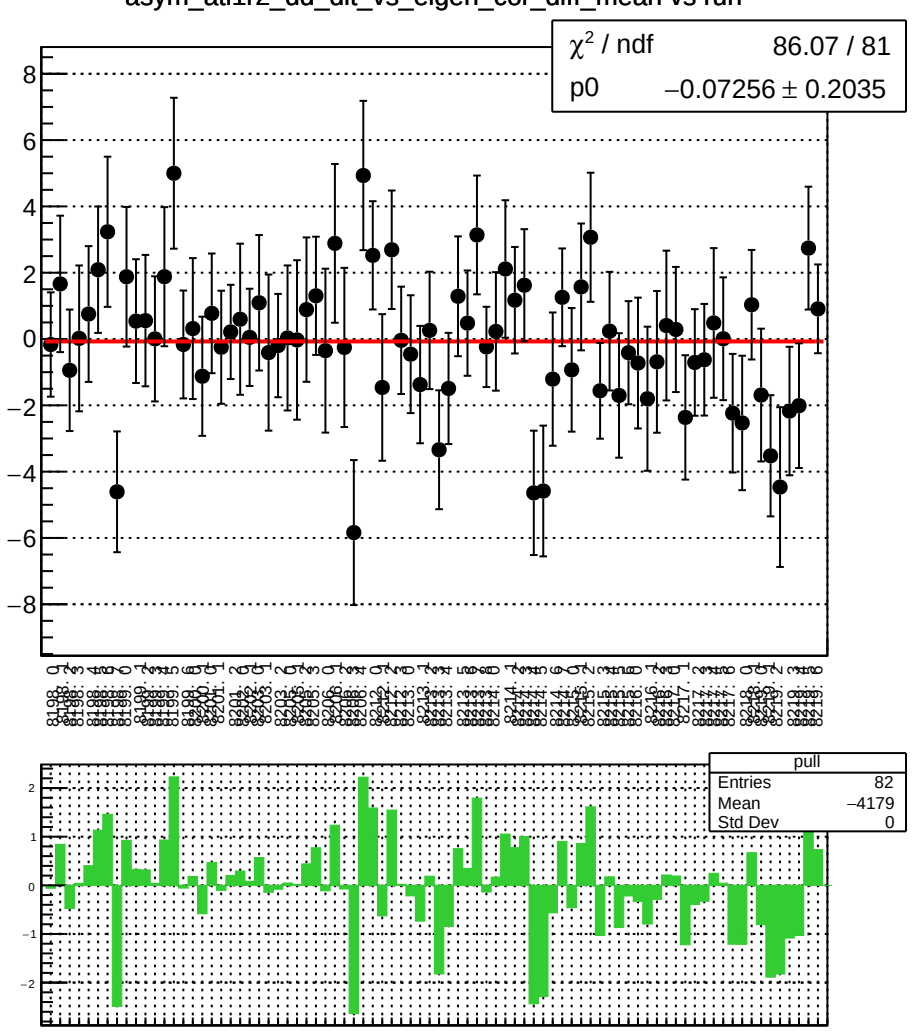

pull1D
Entries 82
Mean 0.004298
Std Dev 0.9614
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

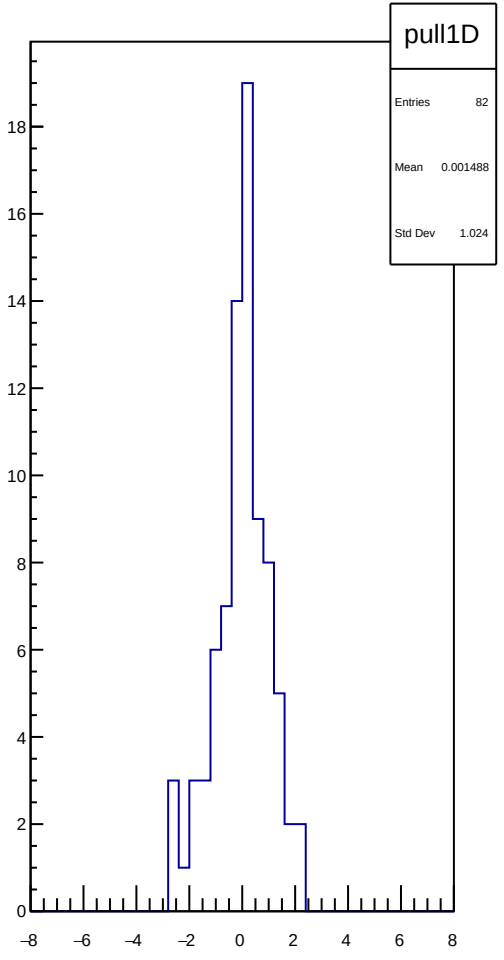

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.306e+05 / 81
p0 6.759e−10 ± 7.601e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

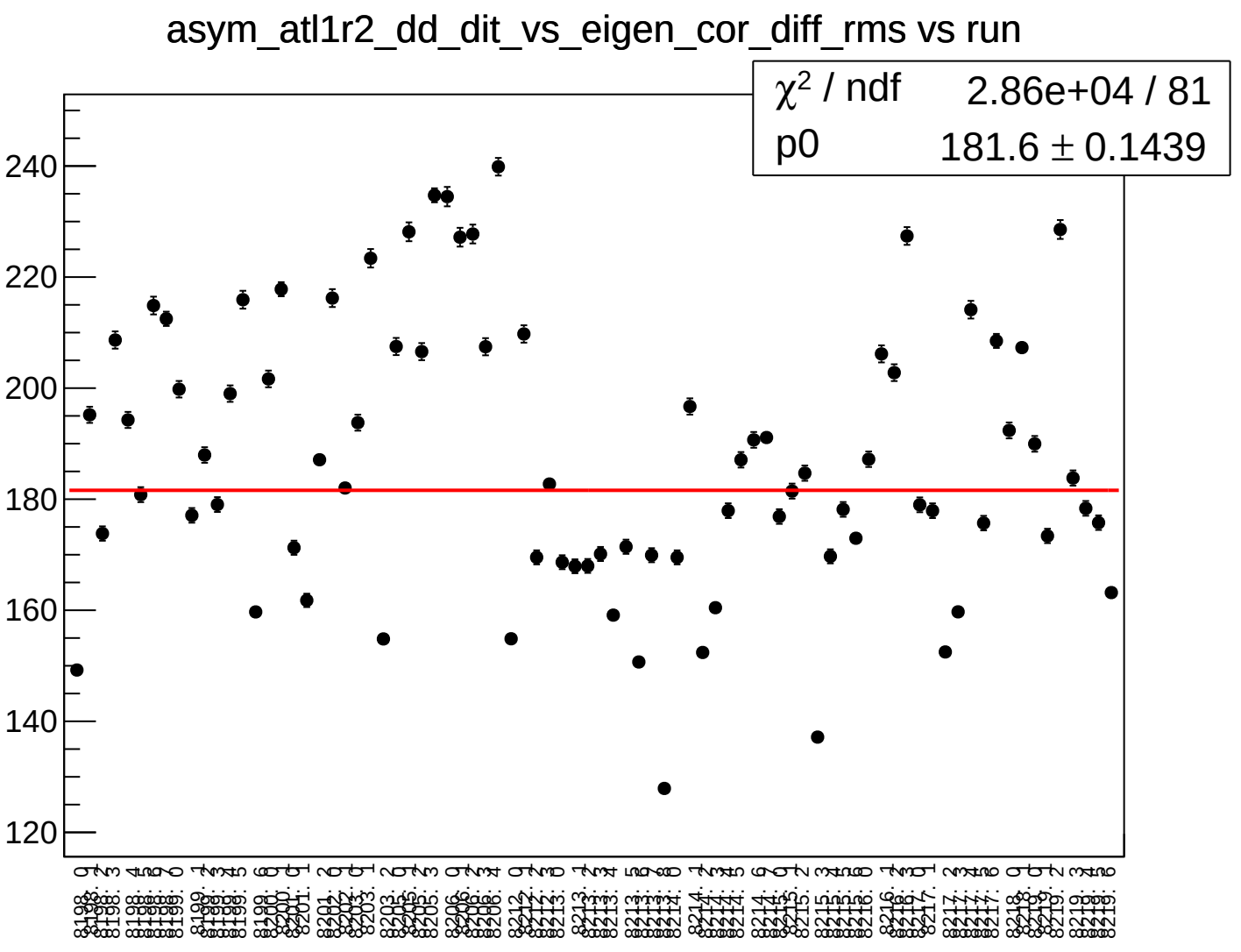

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.07 / 81
p0 −0.07256 ± 0.2035
pull
Entries 82
Mean −4179
Std Dev 0

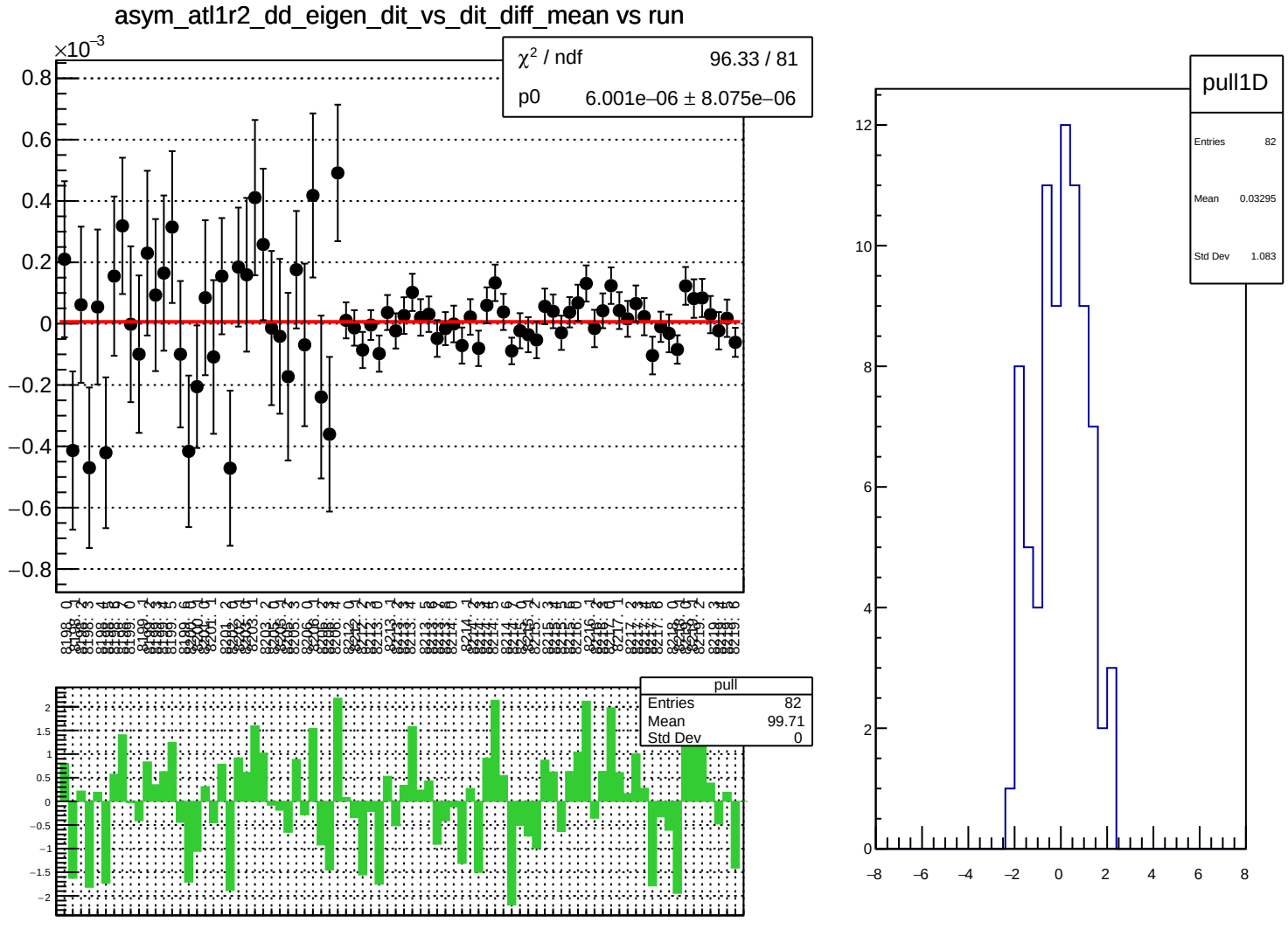

pull1D
Entries 82
Mean 0.001488
Std Dev 1.024

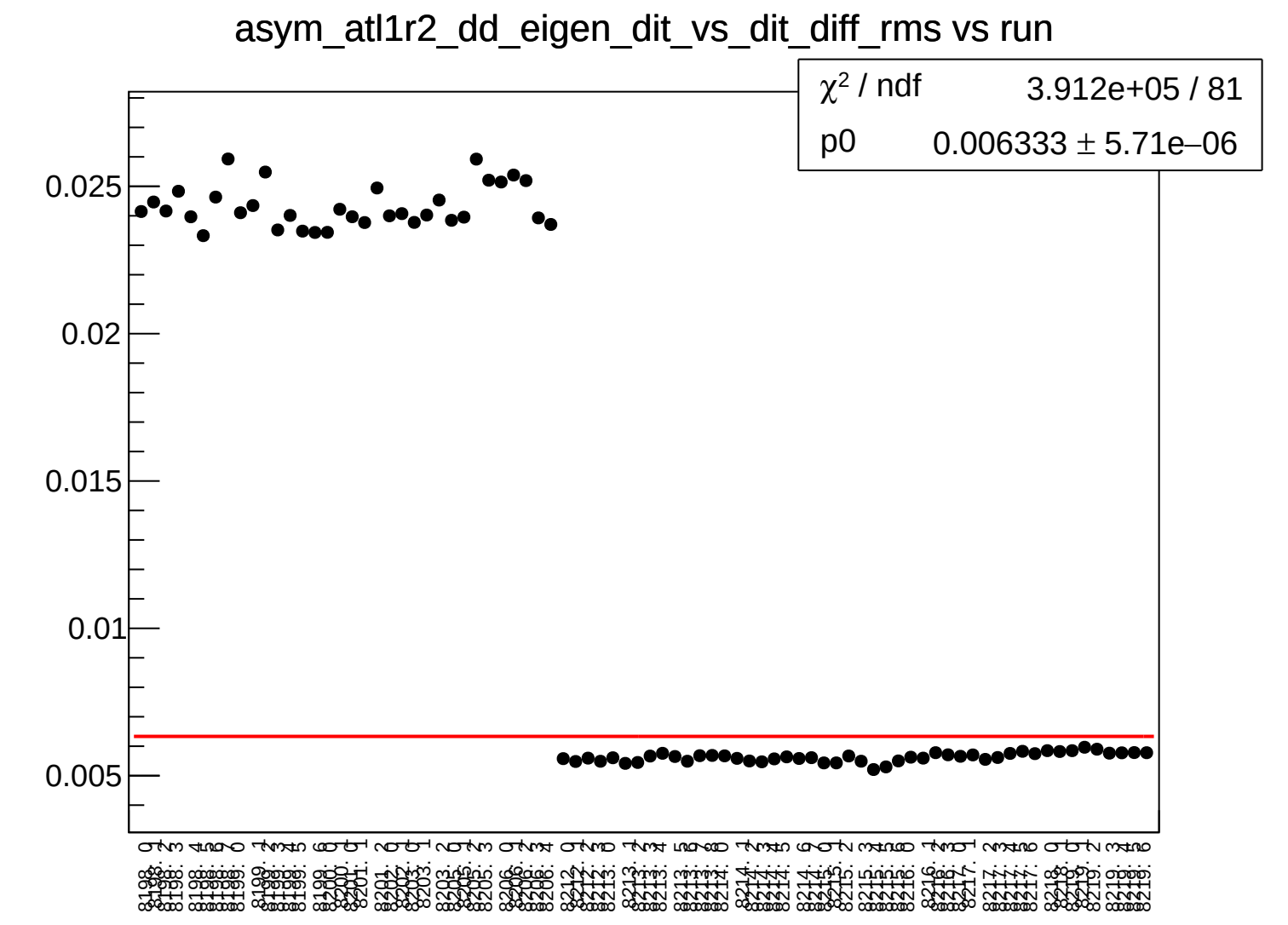

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.86e+04 / 81
p0 181.6 ± 0.1439
240
220
200
180
160
140
120

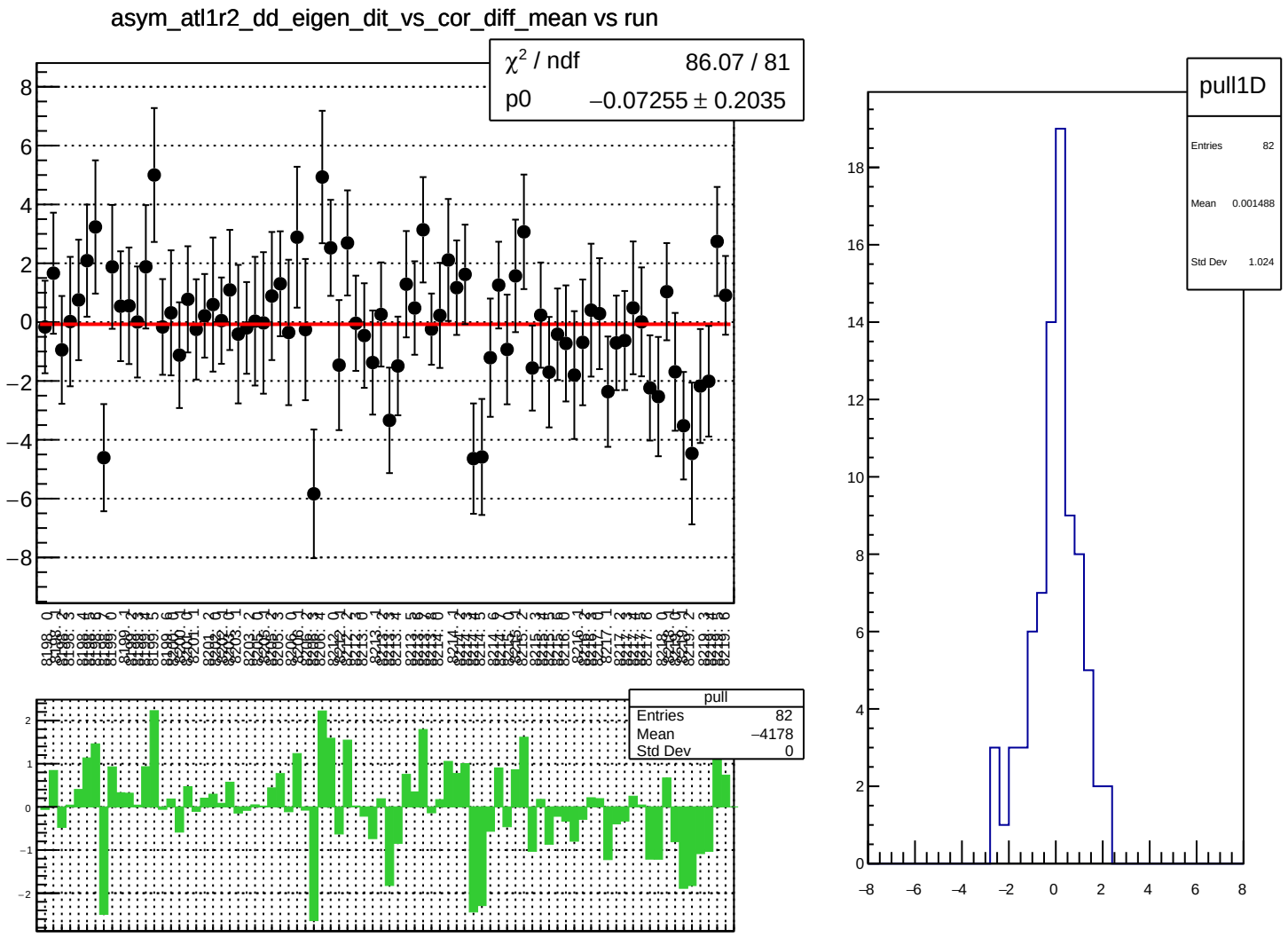

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.07 / 81
p0 −0.07256 ± 0.2035
pull
Entries 82
Mean −4179
Std Dev 0

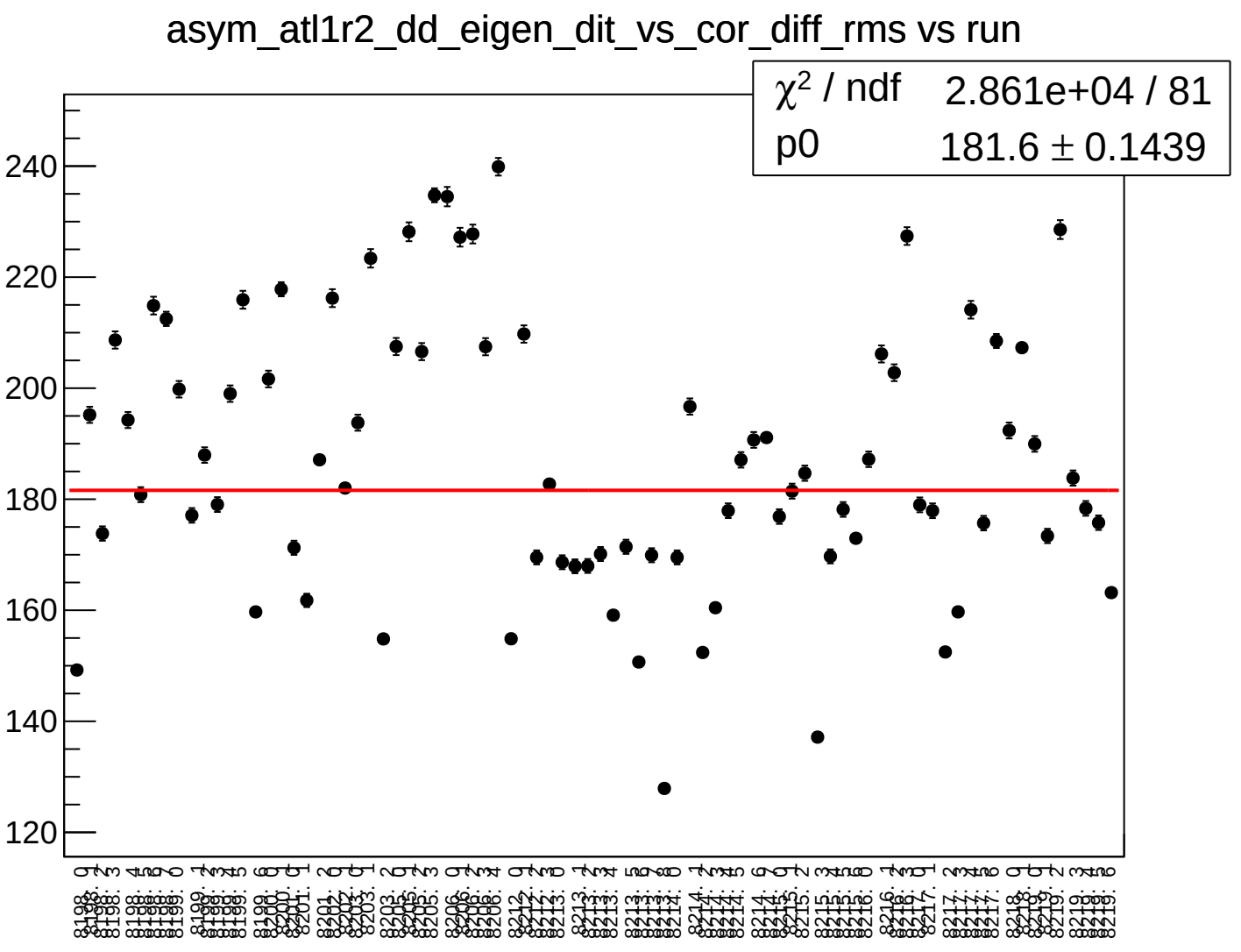

pull1D
Entries 82
Mean 0.001488
Std Dev 1.024

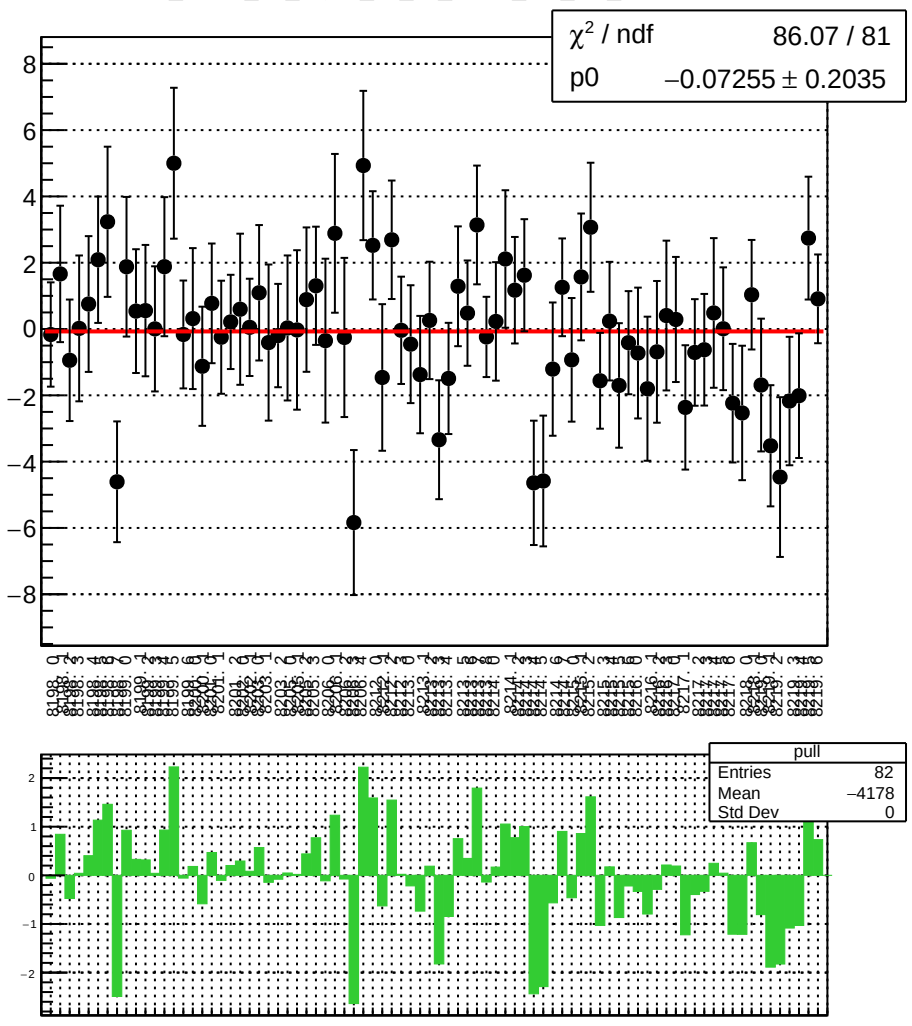

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.86e+04 / 81
p0 181.6 ± 0.1439
240
220
200
180
160
140
120

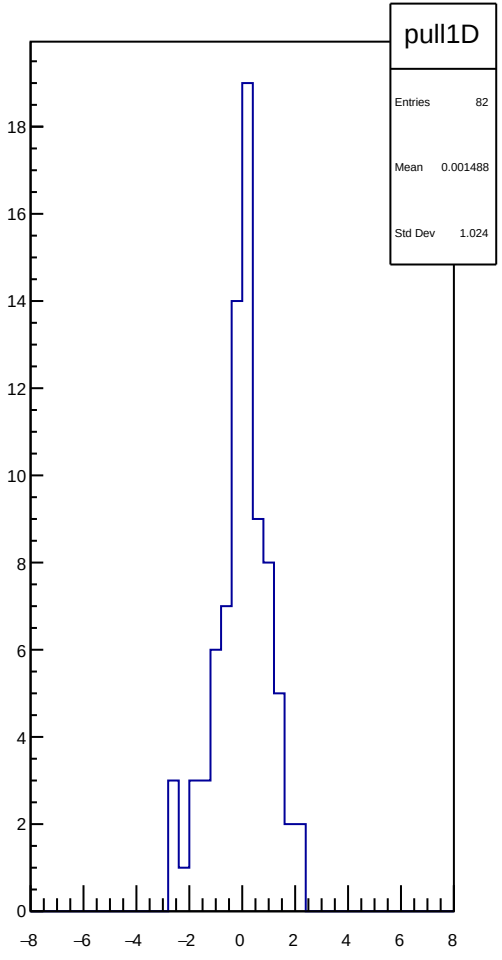

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.33 / 81
p0 6.001e−06 ± 8.075e−06
pull
Entries 82
Mean 99.71
Std Dev 0
pull1D
Entries 82
Mean 0.03295
Std Dev 1.083

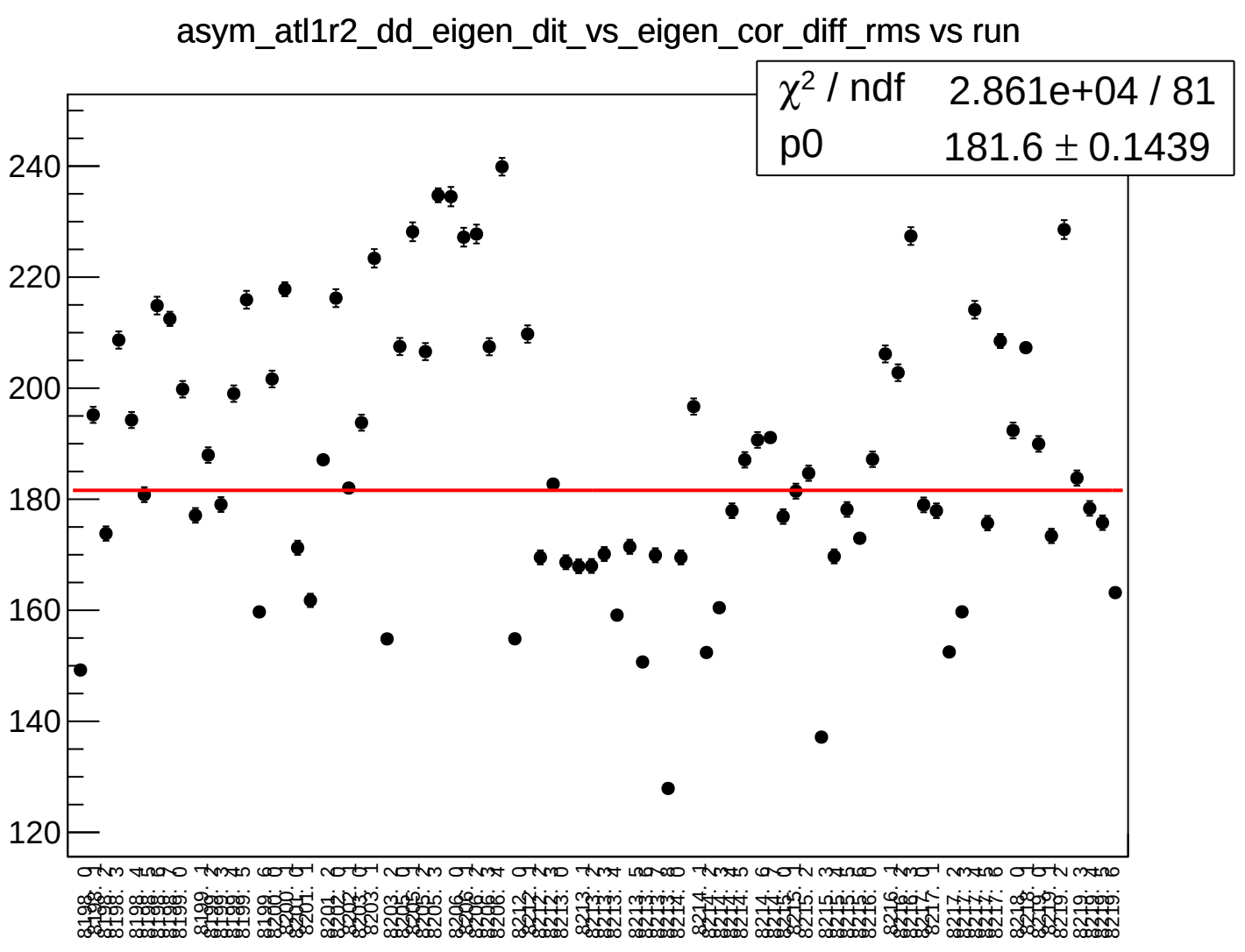

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.912e+05 / 81
p0 0.006333 ± 5.71e−06
0.025
0.02
0.015
0.01
0.005

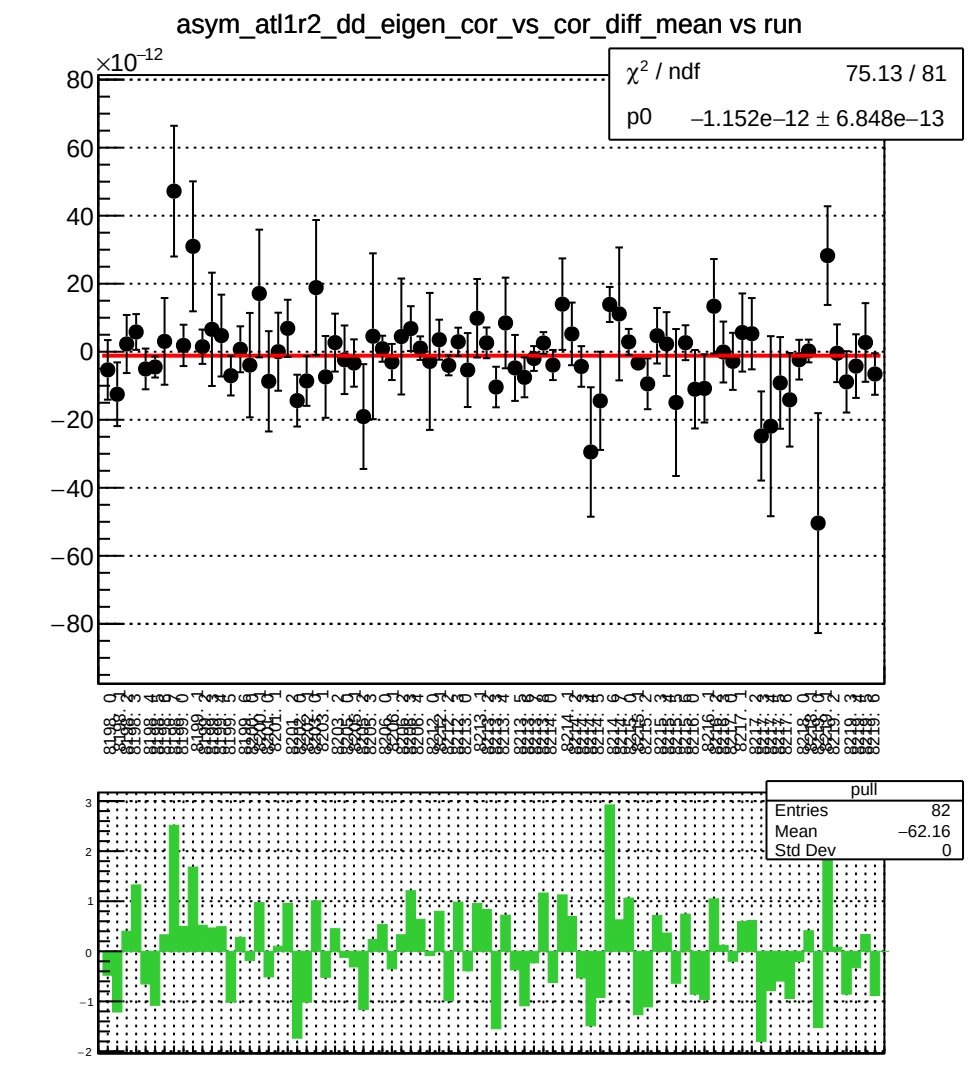

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.07 / 81
p0 −0.07255 ± 0.2035
pull
Entries 82
Mean −4178
Std Dev 0
pull1D
Entries 82
Mean 0.001488
Std Dev 1.024

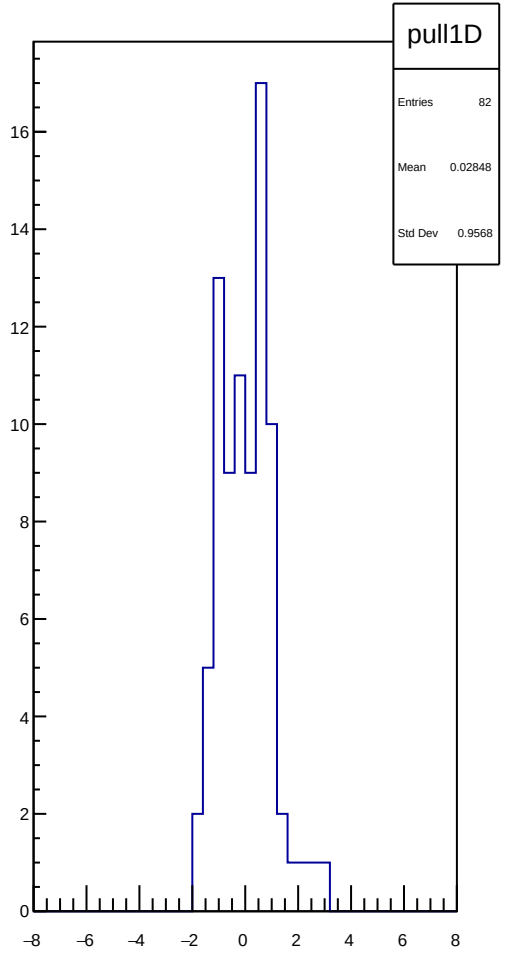

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.861e+04 / 81
p0 181.6 ± 0.1439
240
220
200
180
160
140
120

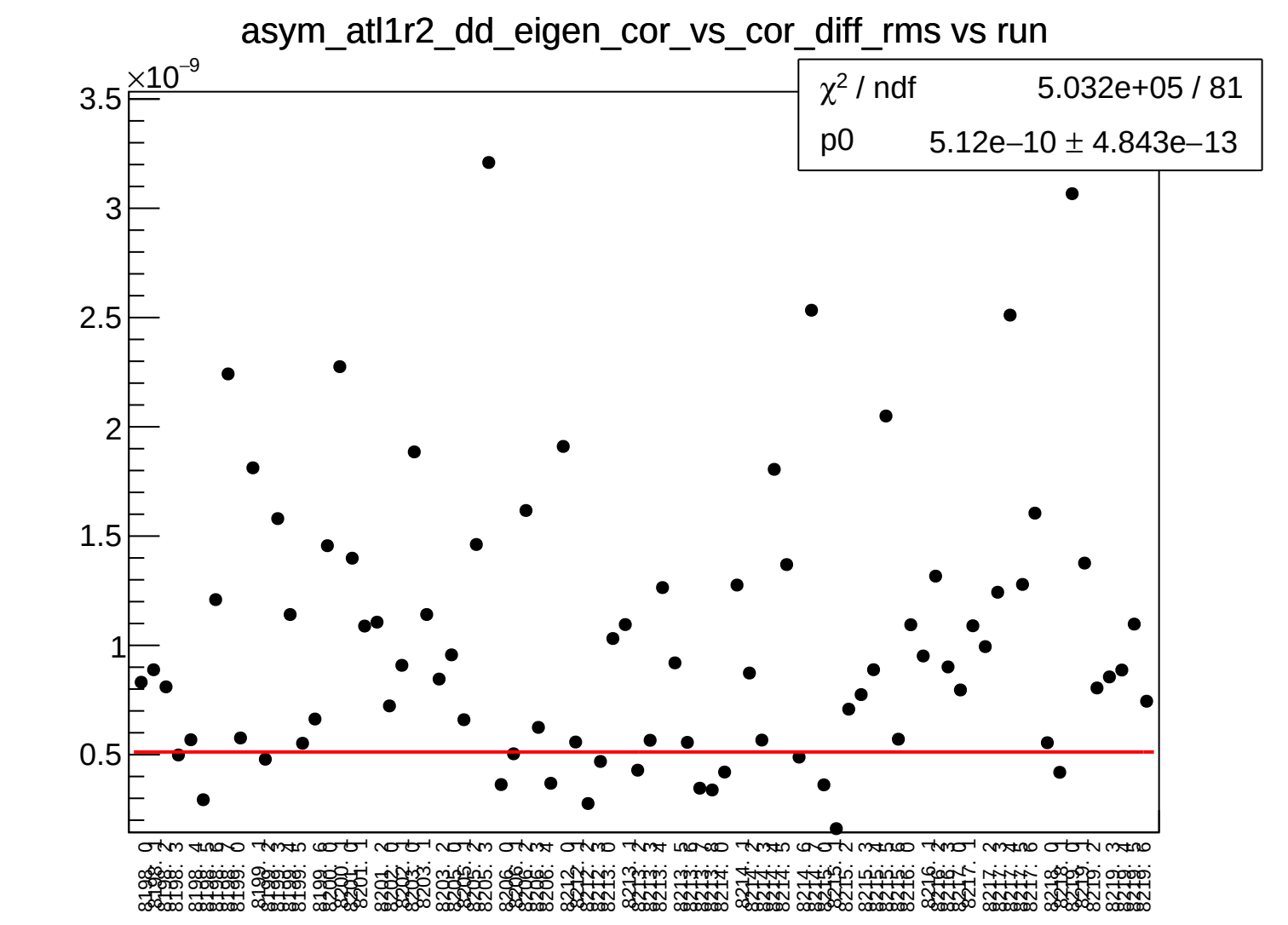

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.07 / 81
p0 −0.07255 ± 0.2035
pull
Entries 82
Mean −4178
Std Dev 0

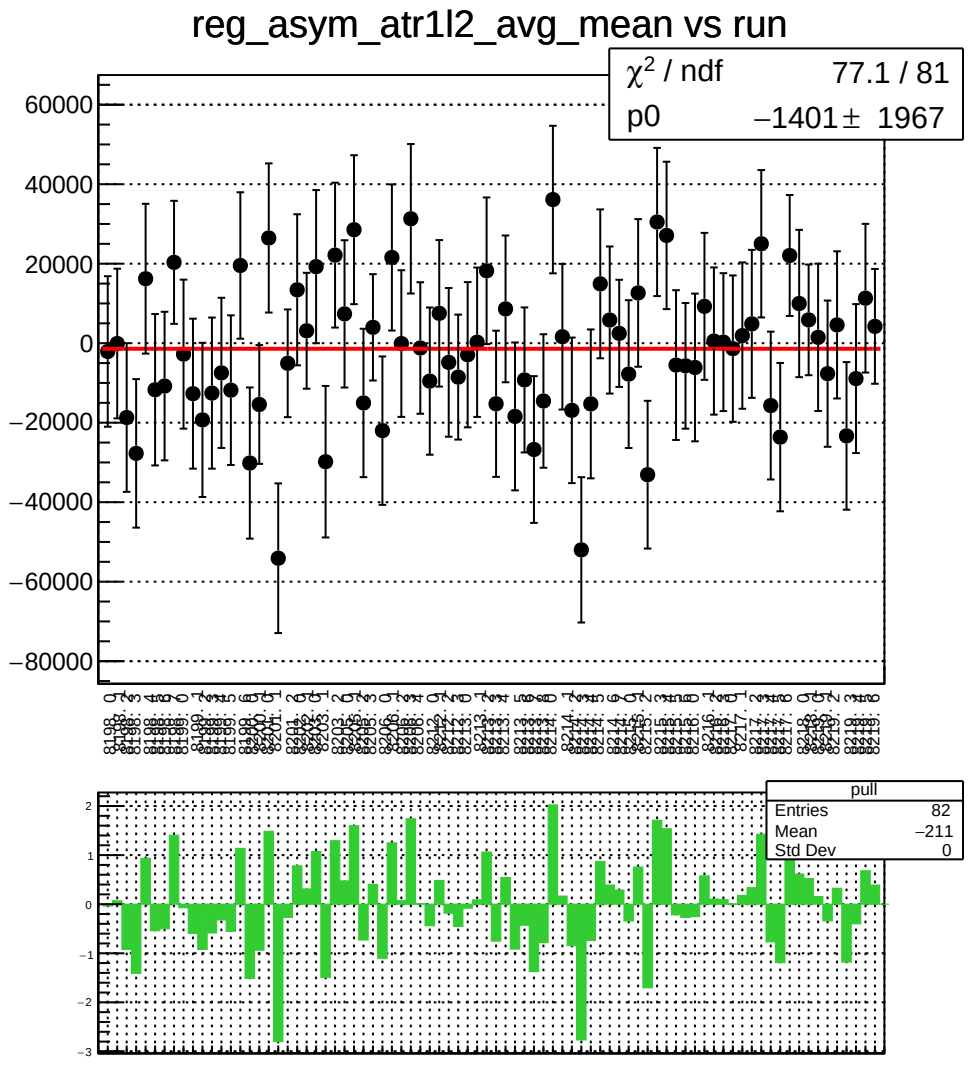

pull1D
Entries 82
Mean 0.001488
Std Dev 1.024

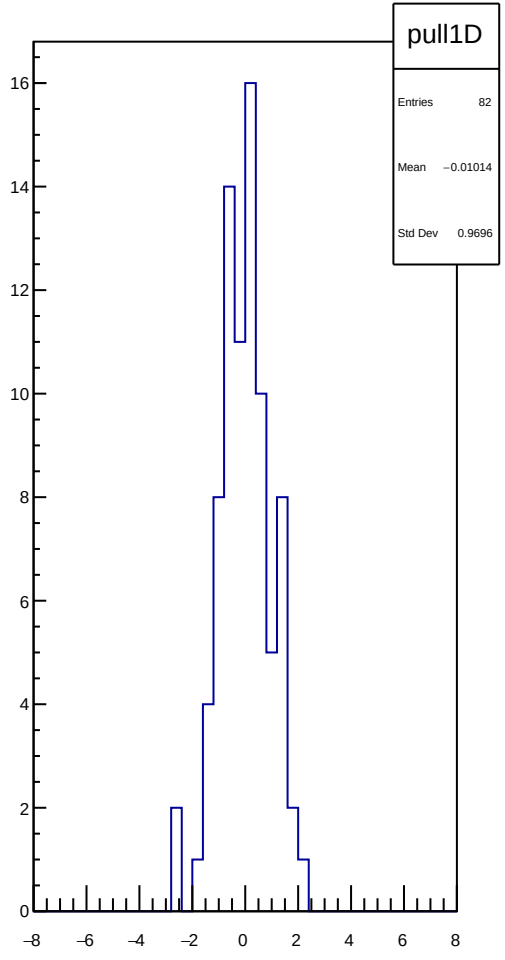

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.861e+04 / 81
p0 181.6 ± 0.1439
240
220
200
180
160
140
120

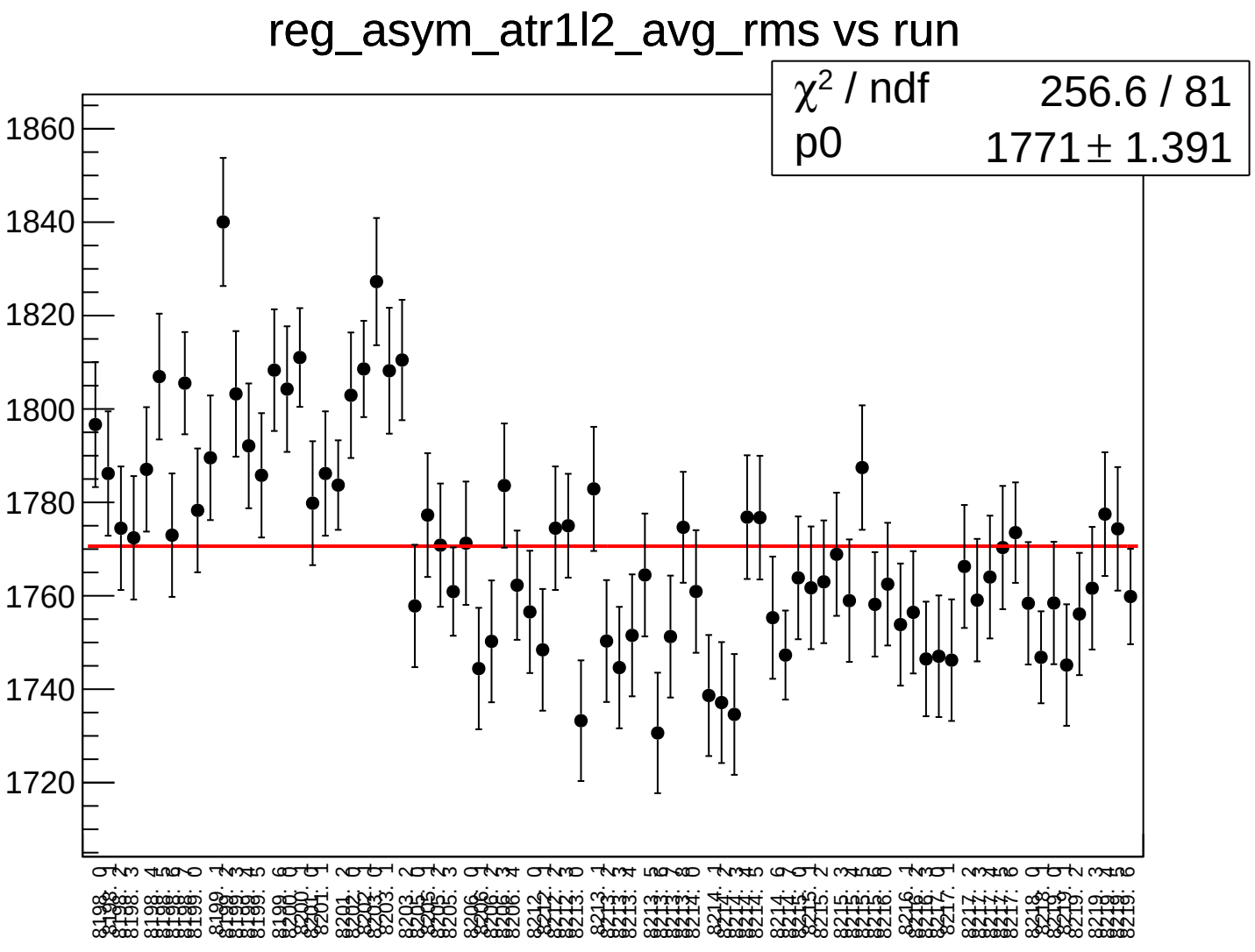

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.13 / 81
p0 −1.152e−12 ± 6.848e−13
pull
Entries 82
Mean −62.16
Std Dev 0

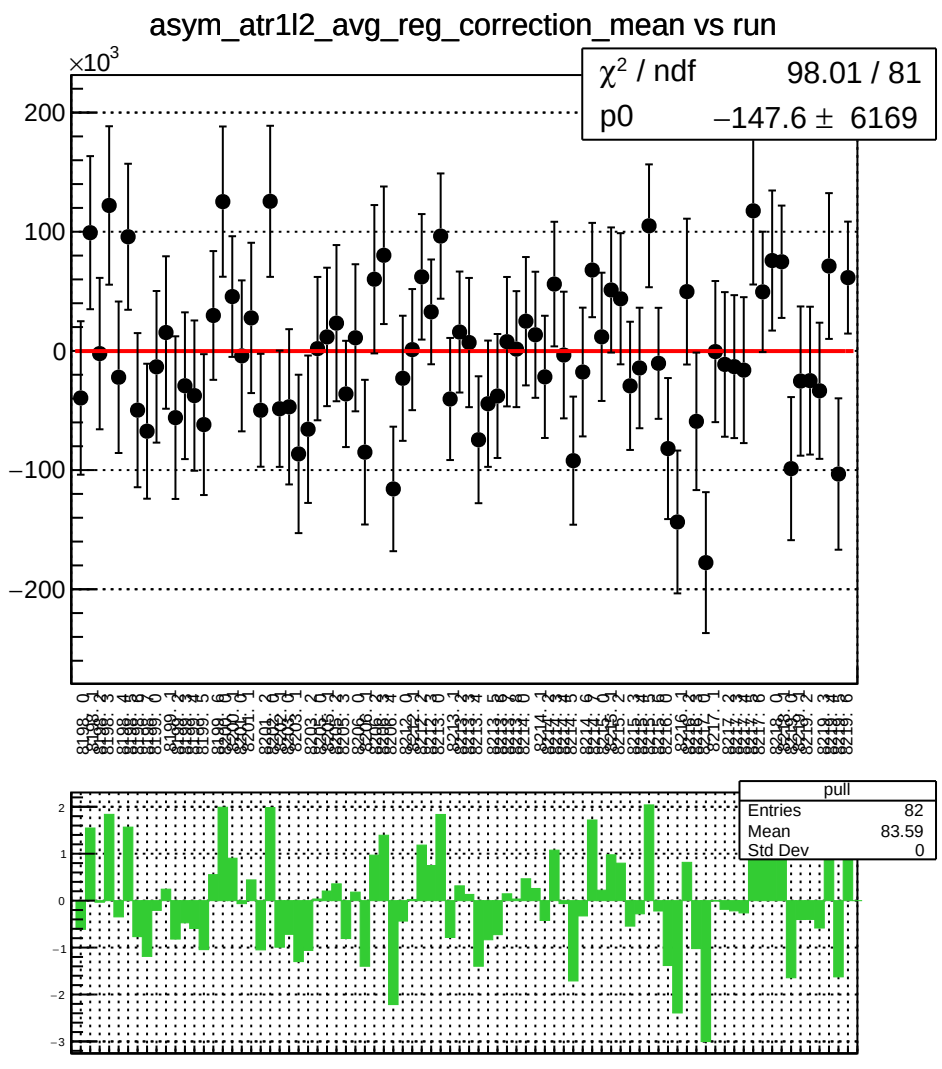

pull1D
Entries 82
Mean 0.02848
Std Dev 0.9568

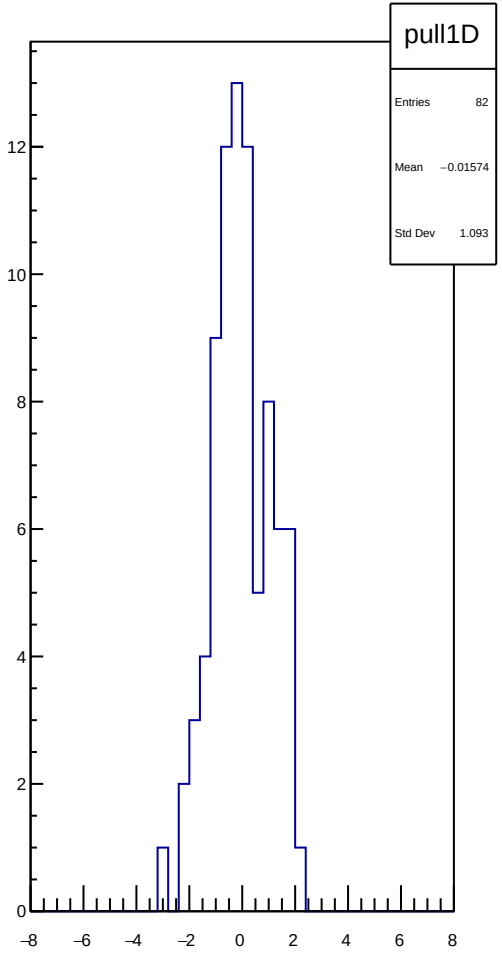

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.032e+05 / 81
p0 5.12e−10 ± 4.843e−13
3.5
3
2.5
2
1.5
1
0.5

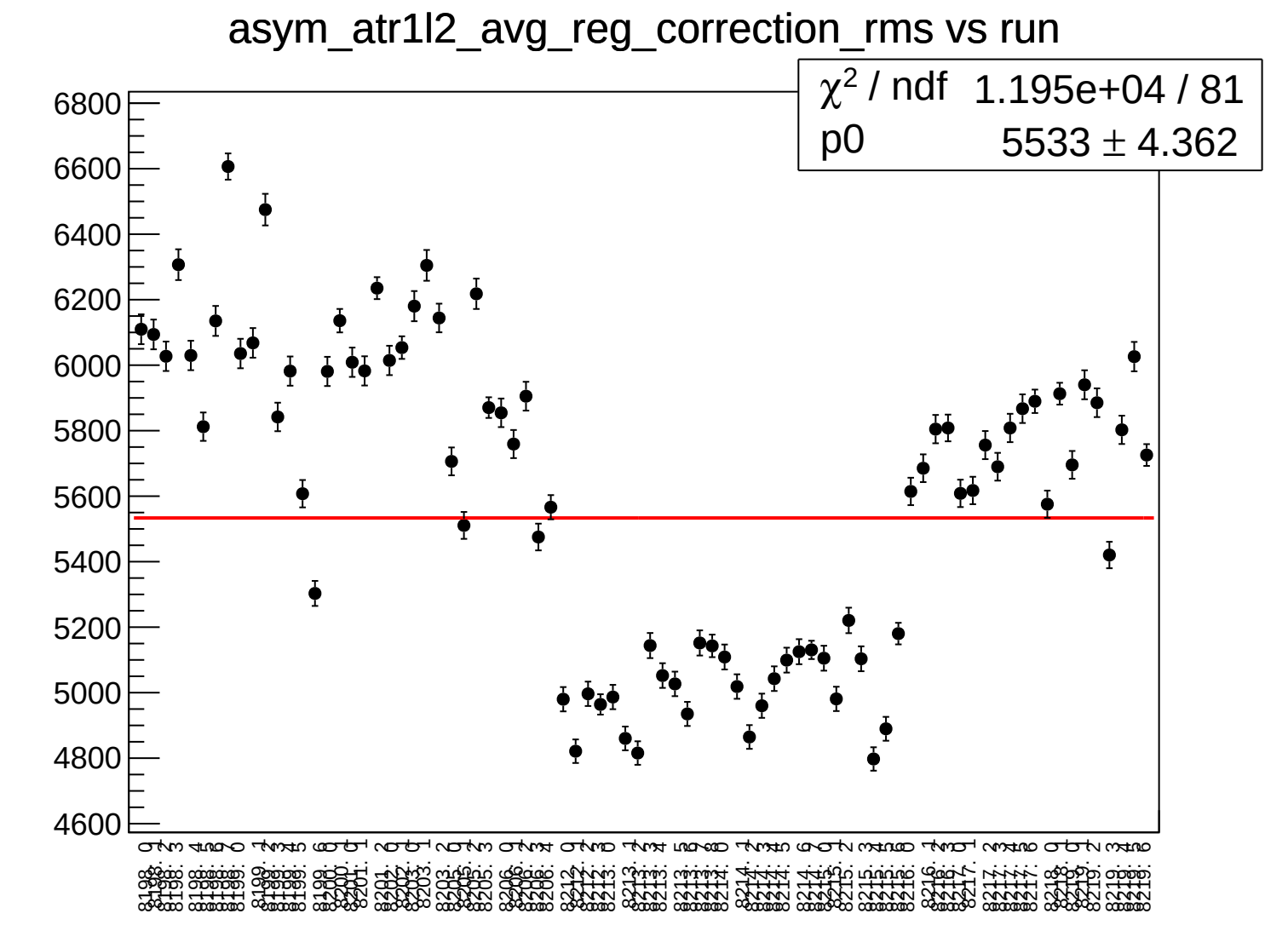

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 77.1 / 81
p0 −1401 ± 1967
pull
Entries 82
Mean −211
Std Dev 0

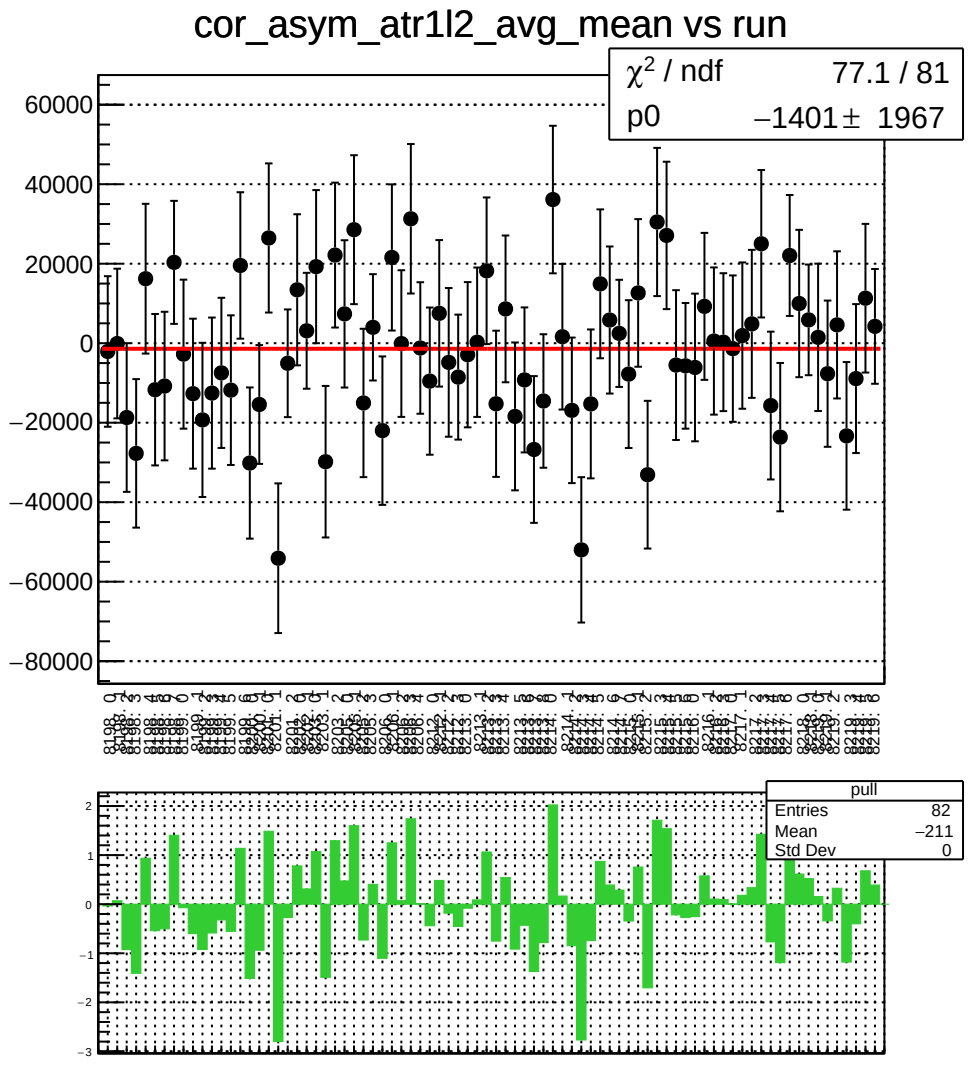

pull1D
Entries 82
Mean −0.01014
Std Dev 0.9696

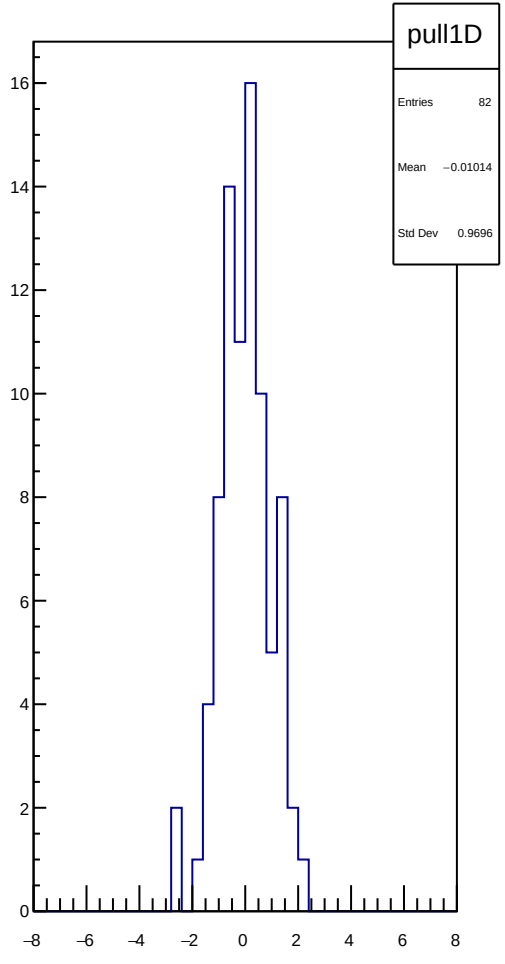

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 256.6 / 81
p0 1771 ± 1.391
1860
1840
1820
1800
1780
1760
1740
1720

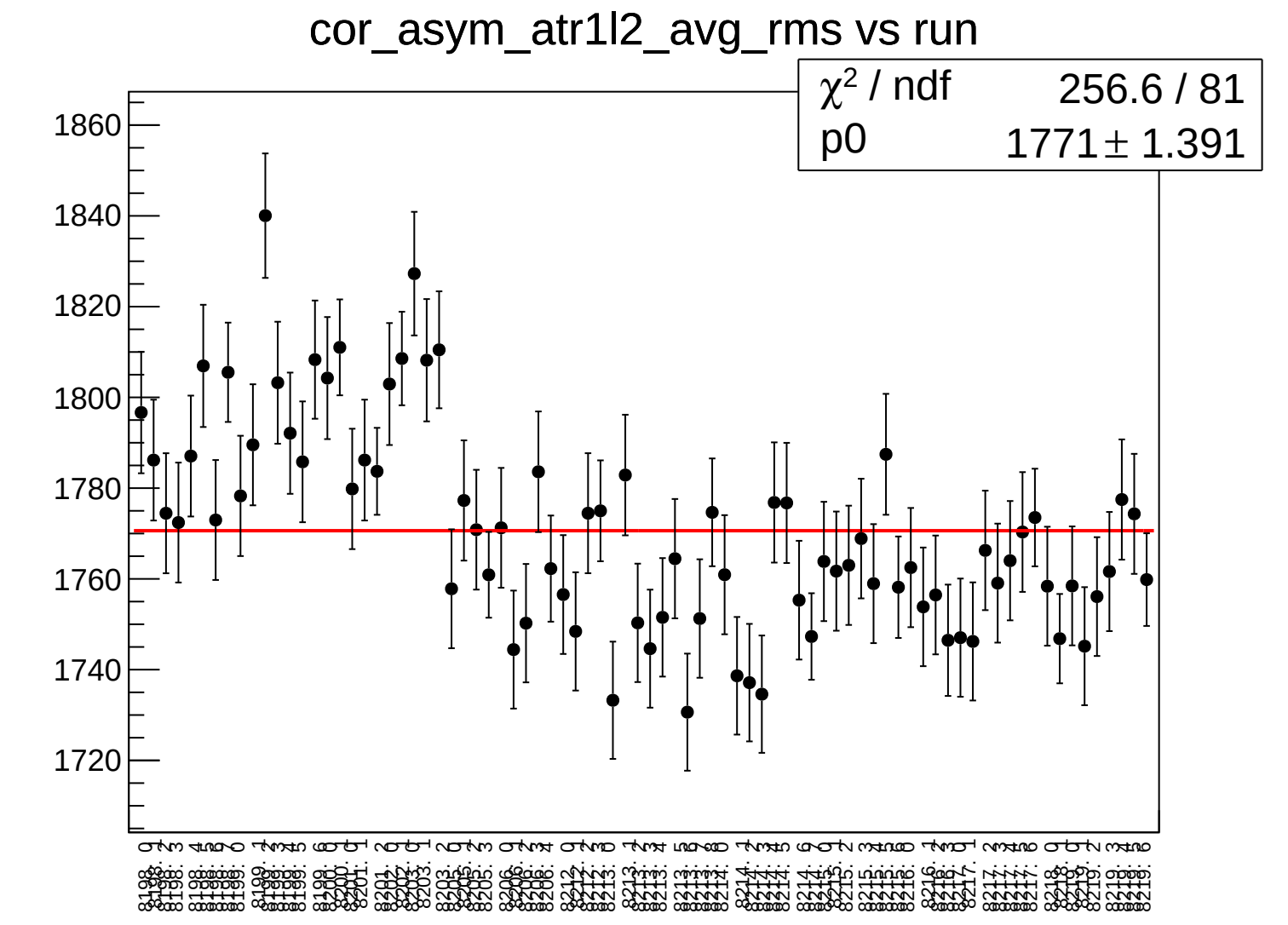

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 98.01 / 81
p0 −147.6 ± 6169
200
100
0
−100
−200
pull
Entries 82
Mean 83.59
Std Dev 0
2
1
0
−1
−2
−3

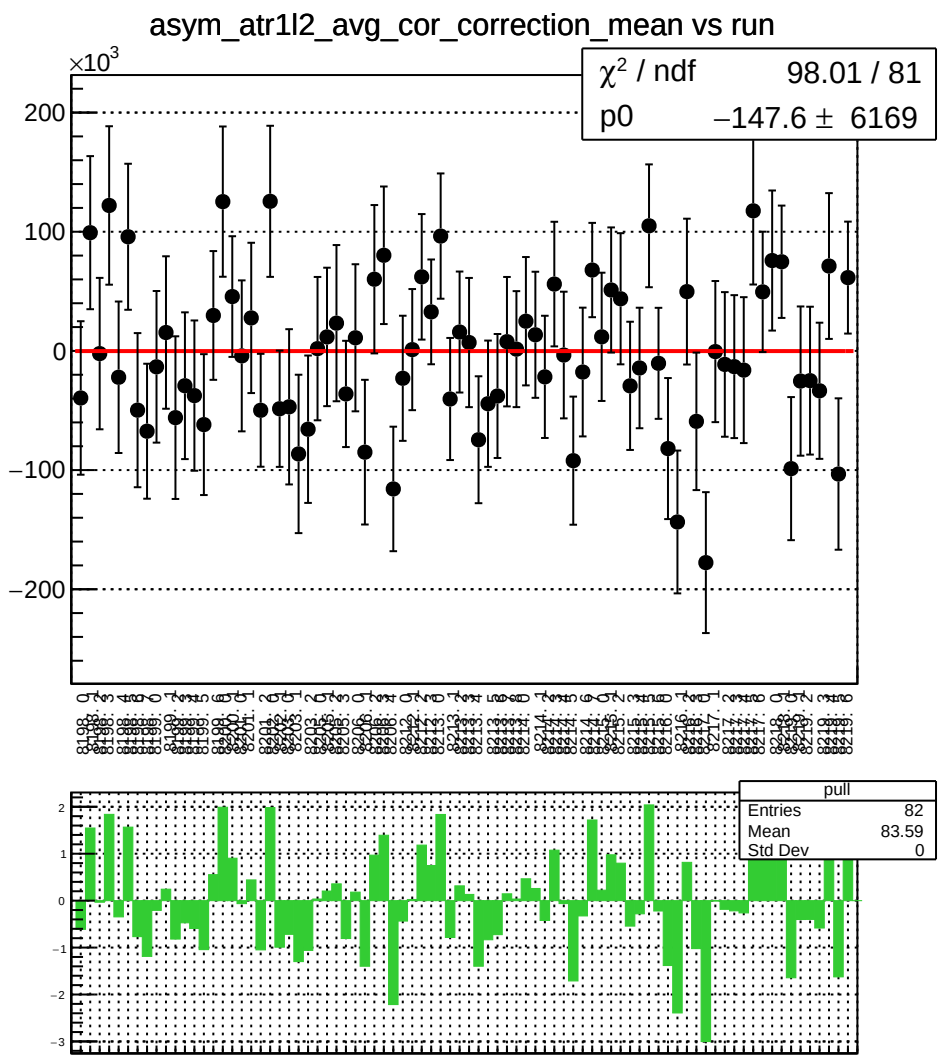

pull1D
Entries 82
Mean −0.01574
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

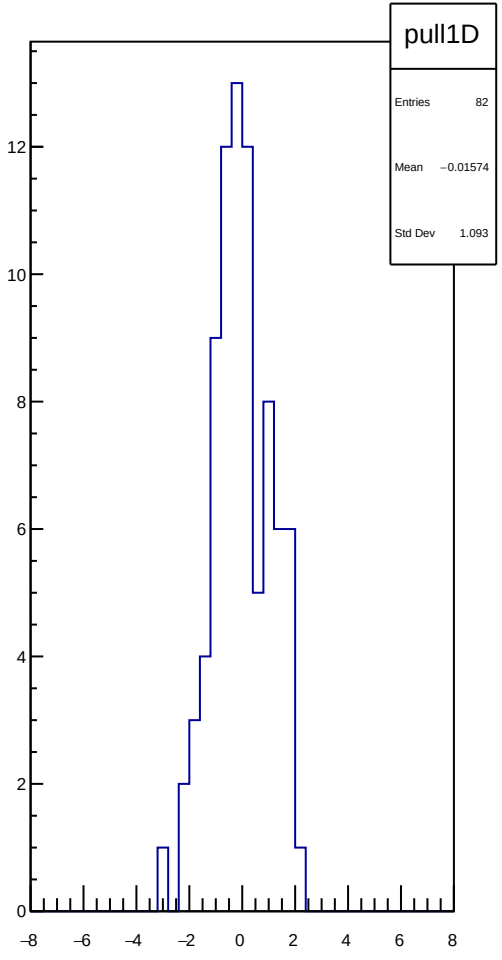

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1.195e+04 / 81
p0 5533 ± 4.362
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

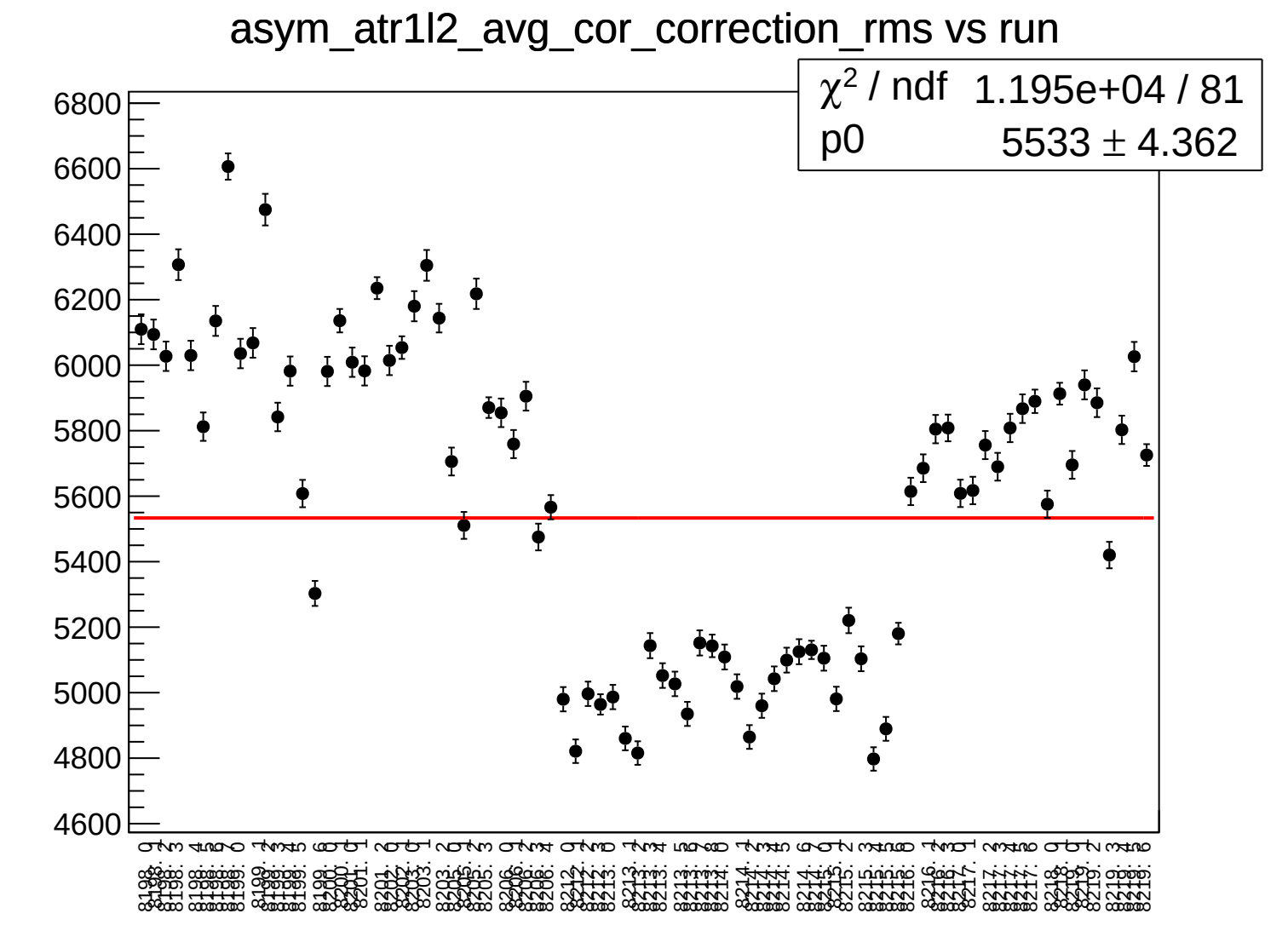

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 77.1 / 81
p0 −1401 ± 1967
pull
Entries 82
Mean −211
Std Dev 0

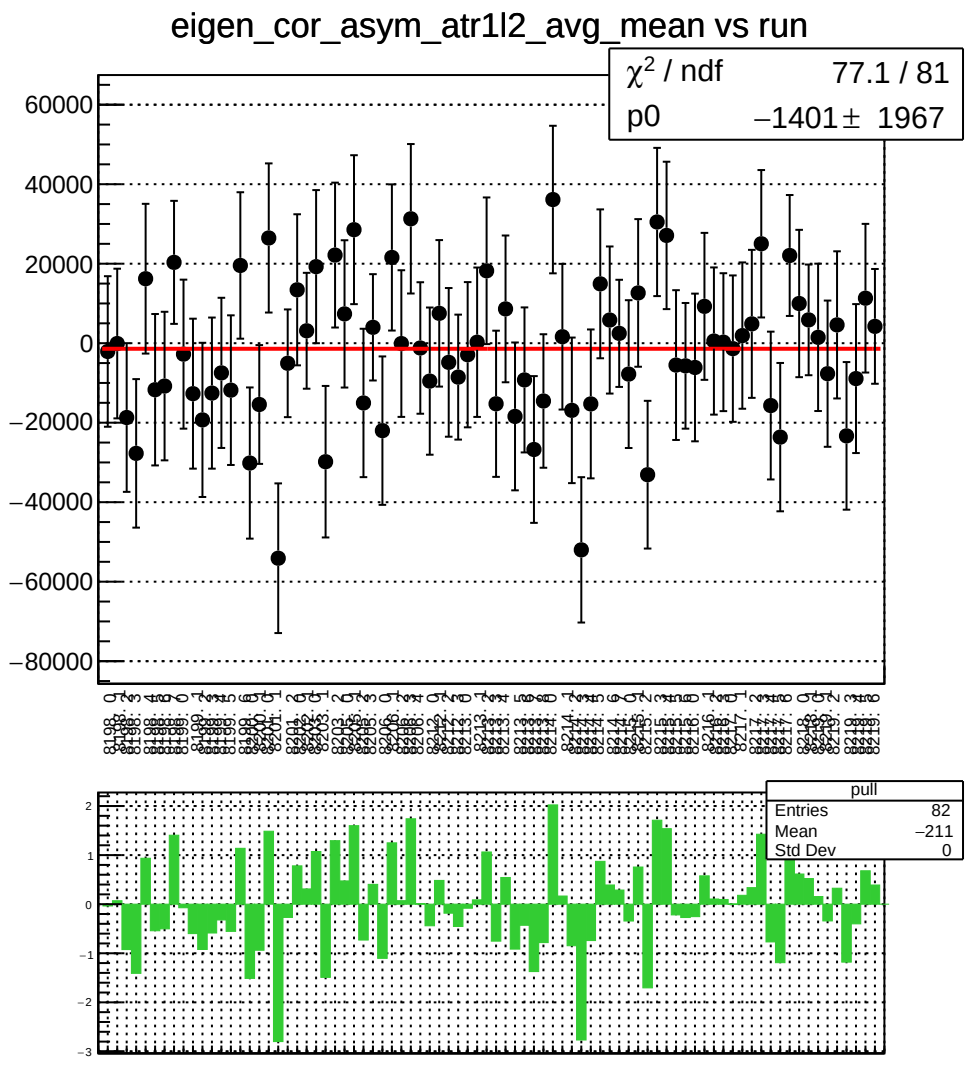

pull1D
Entries 82
Mean −0.01014
Std Dev 0.9696

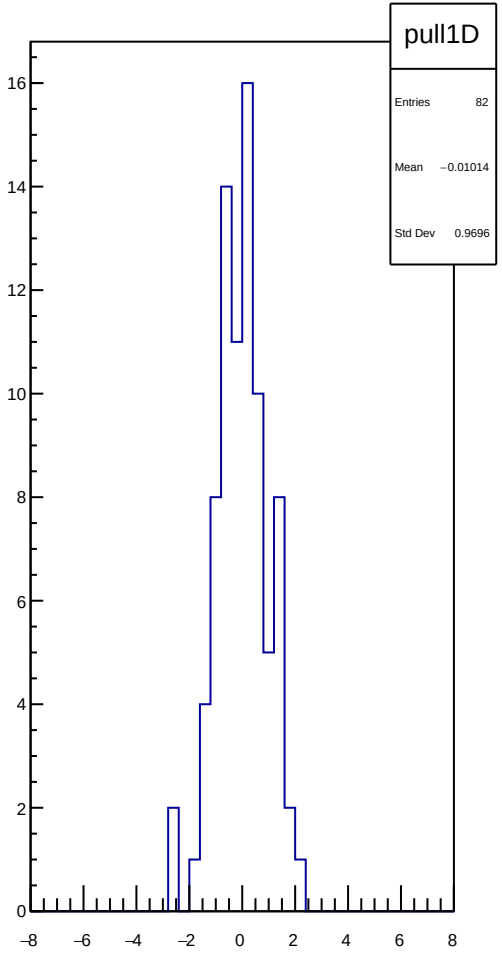

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 256.6 / 81
p0 1771 ± 1.391
1860
1840
1820
1800
1780
1760
1740
1720

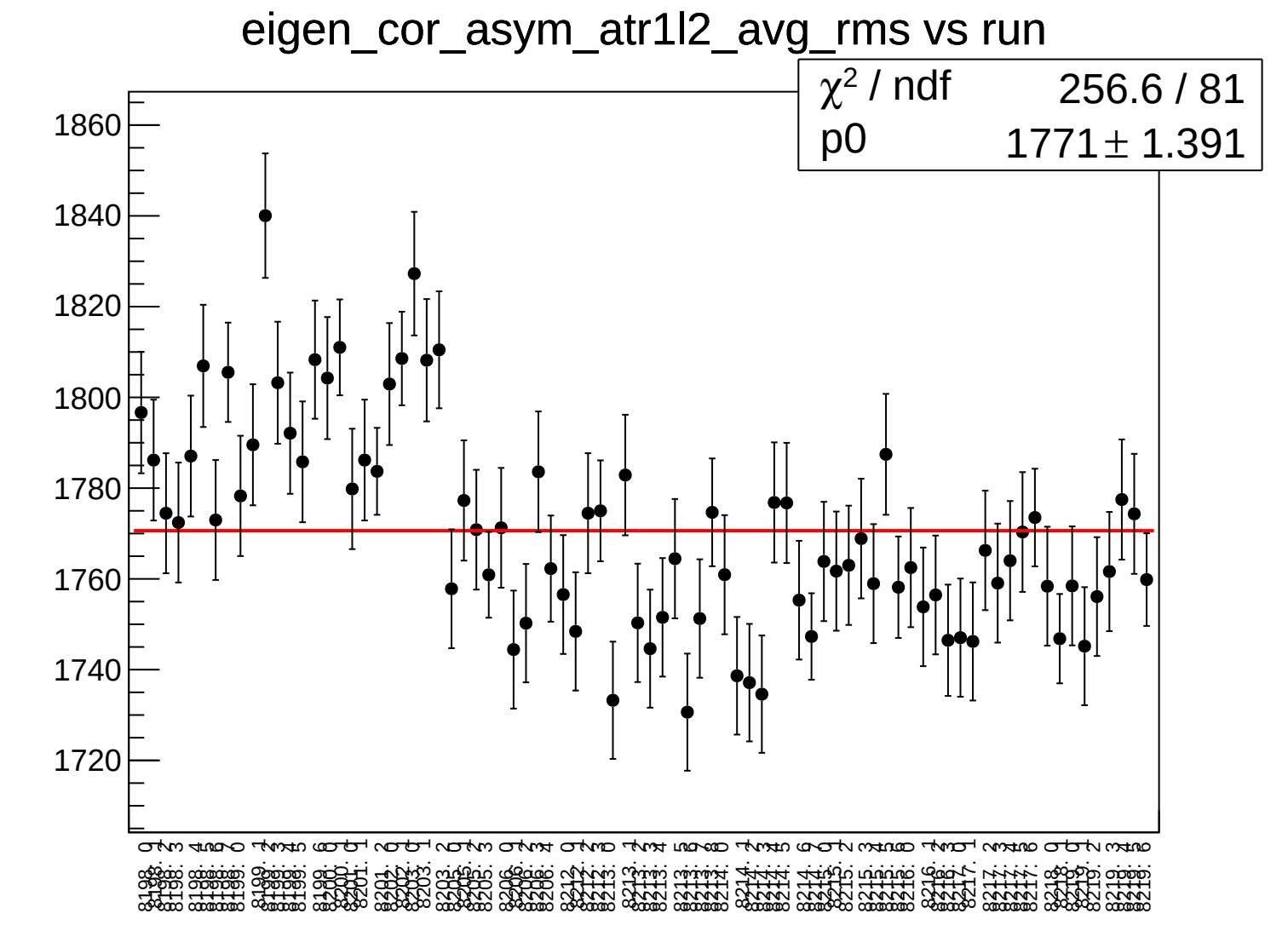

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 98.01 / 81
p0 −147.6 ± 6169
200
100
0
−100
−200
pull
Entries 82
Mean 83.59
Std Dev 0
2
1
0
−1
−2
−3

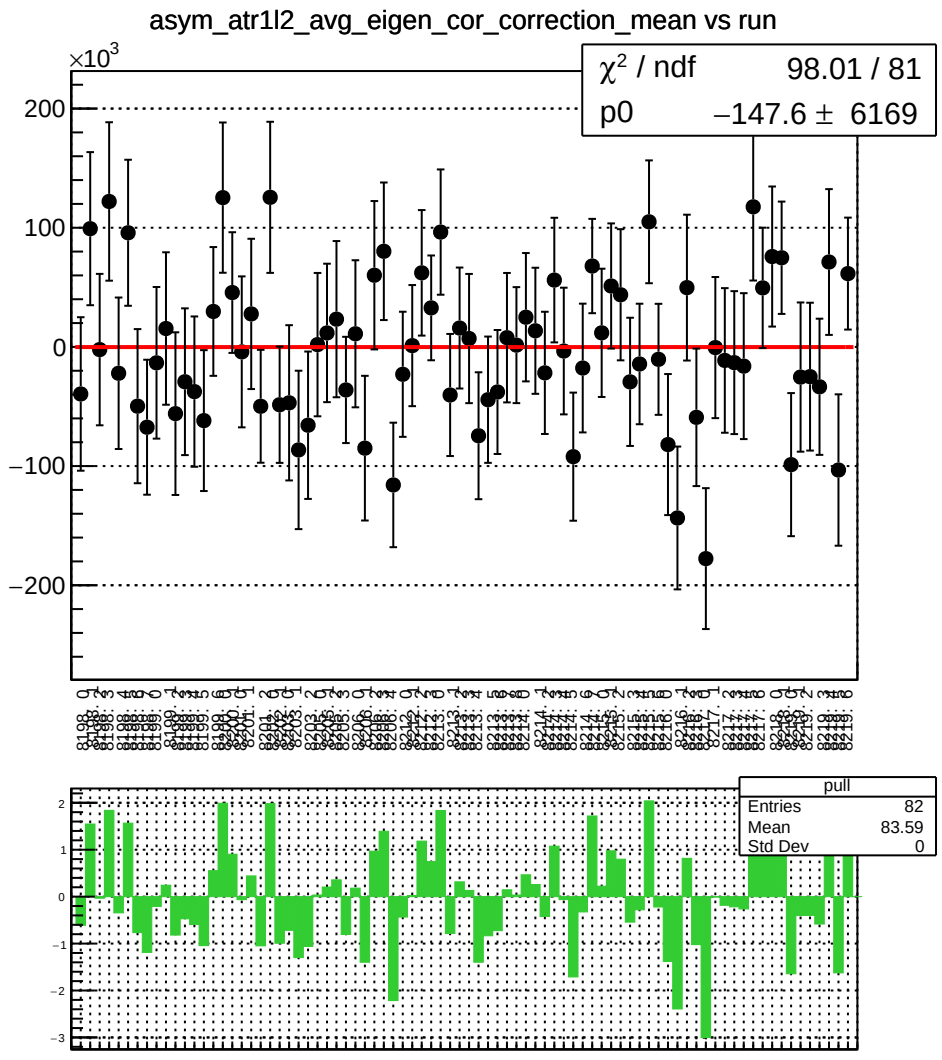

pull1D
Entries 82
Mean −0.01574
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

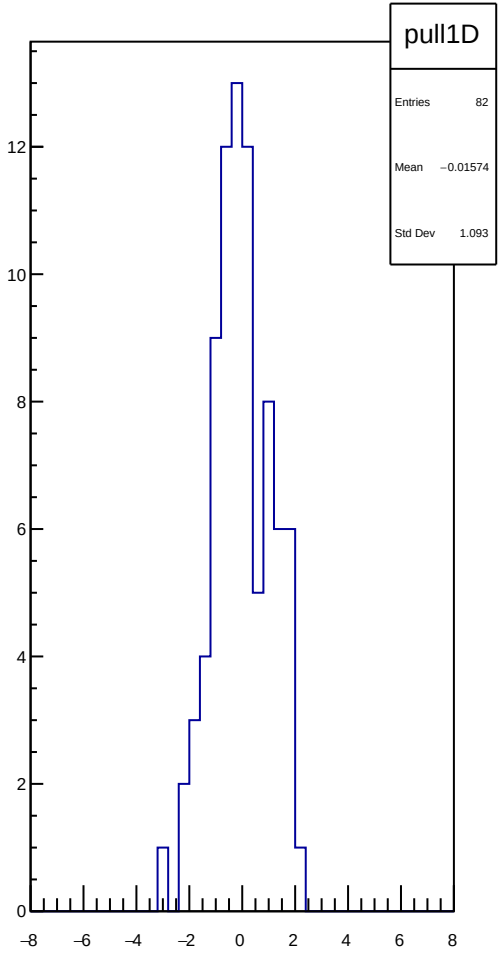

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1.195e+04 / 81
p0 5533 ± 4.362
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

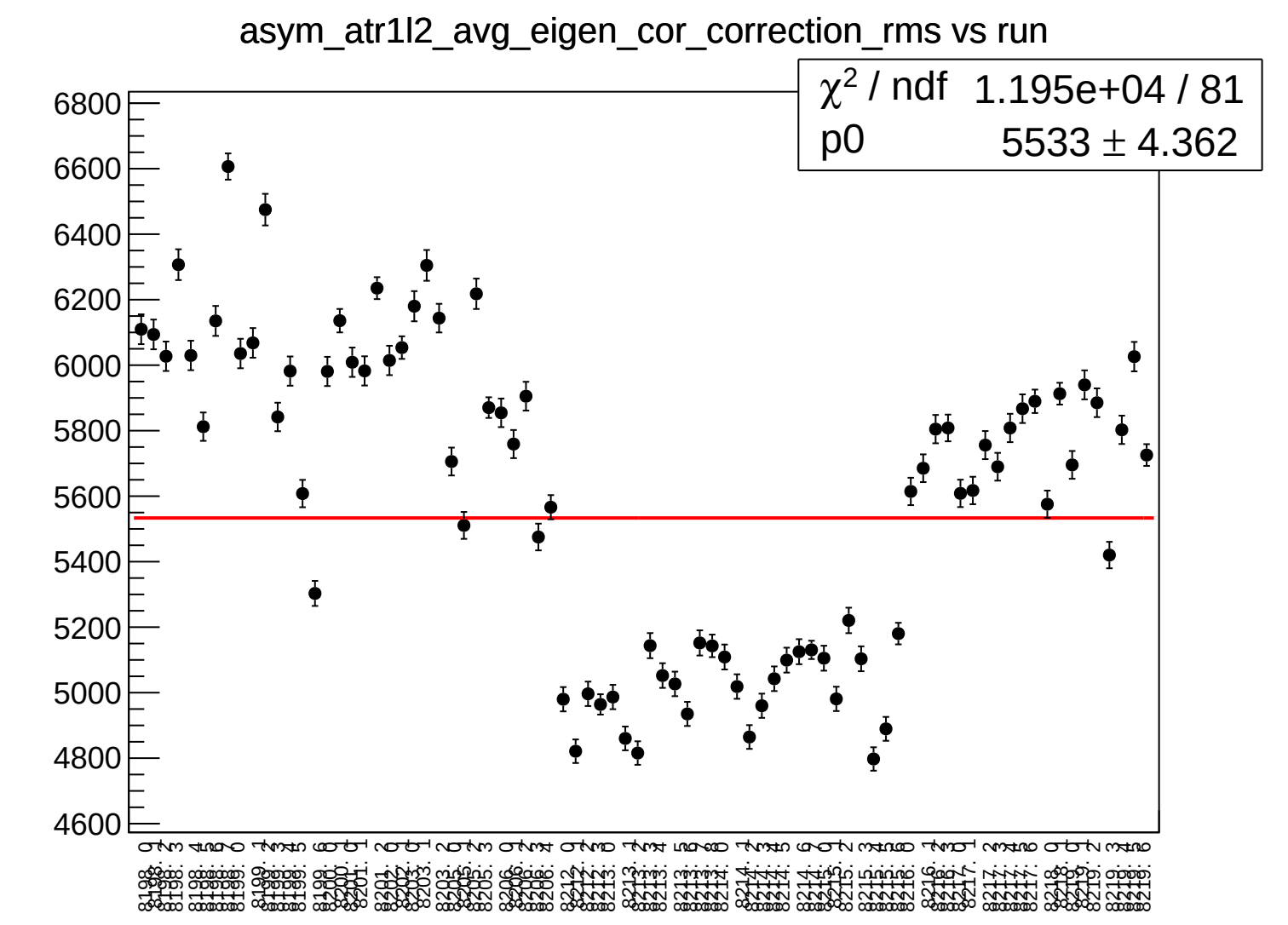

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 77.1 / 81
p0 −1401 ± 1967
pull
Entries 82
Mean −211
Std Dev 0

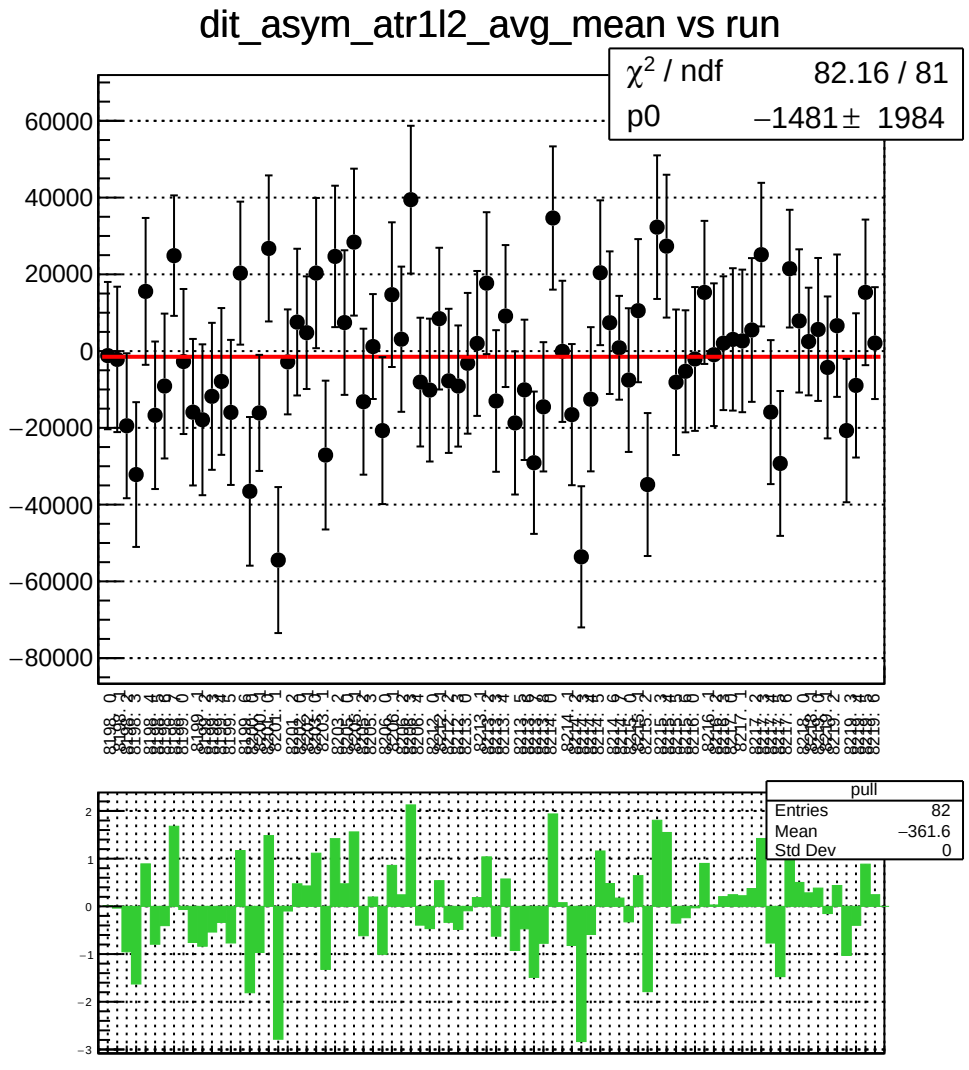

pull1D
Entries 82
Mean −0.01014
Std Dev 0.9696

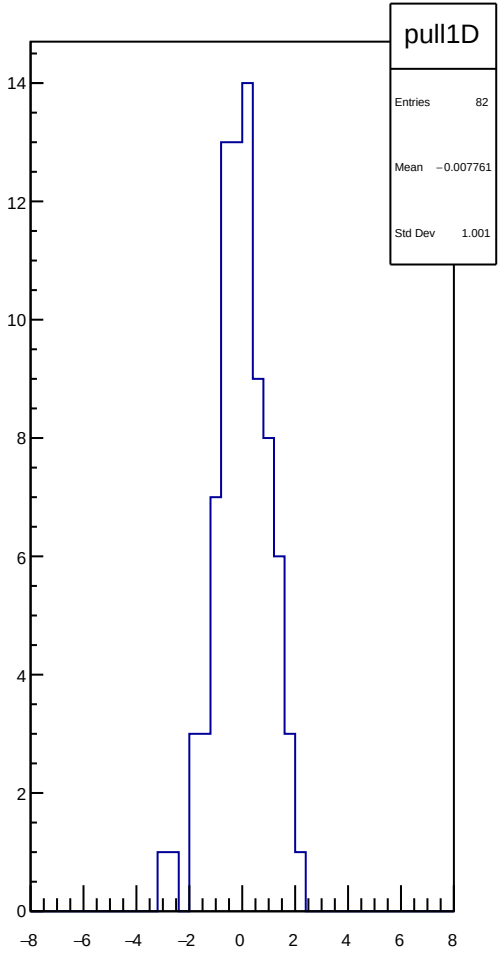

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 256.6 / 81
p0 1771 ± 1.391
1860
1840
1820
1800
1780
1760
1740
1720

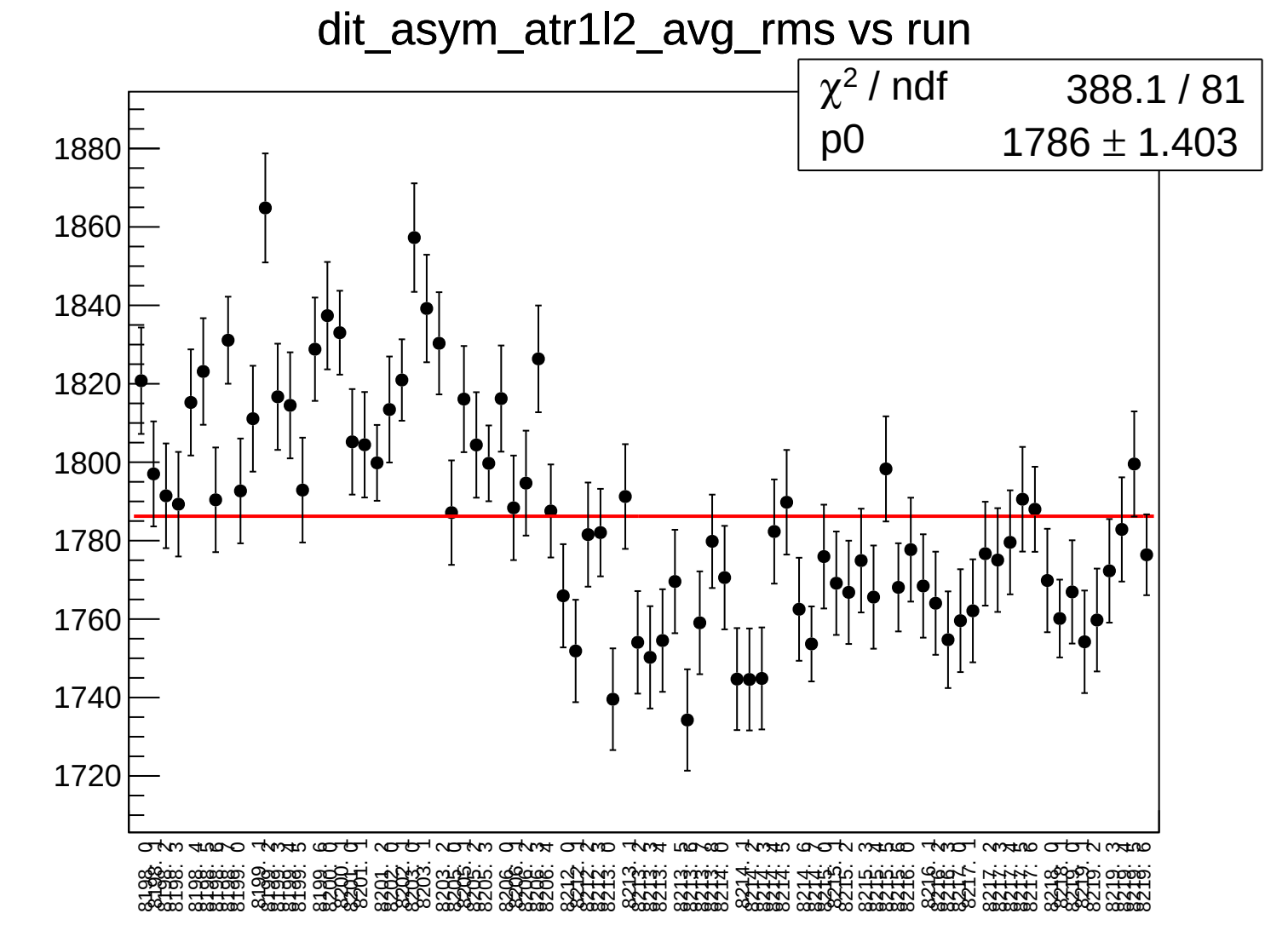

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.01 / 81
p0 −147.6 ± 6169
200
100
0
−100
−200
pull
Entries 82
Mean 83.59
Std Dev 0
2
1
0
−1
−2
−3

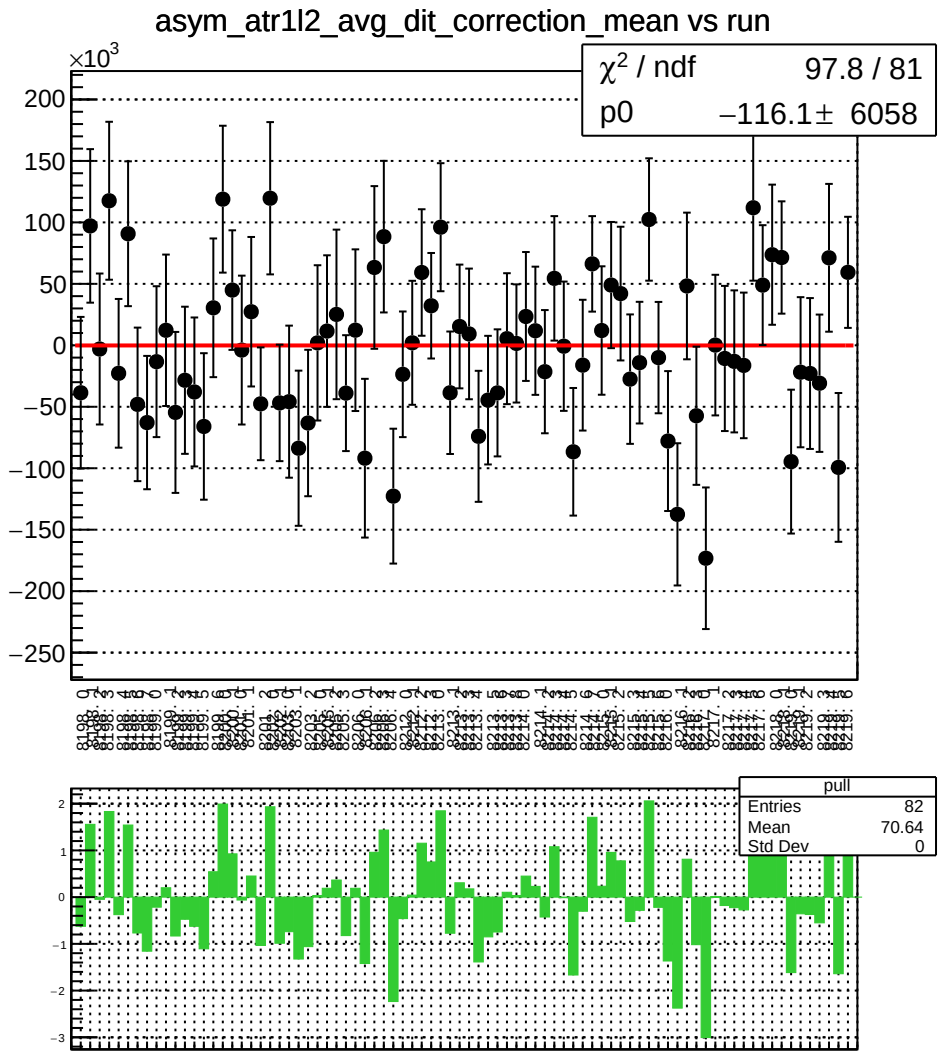

pull1D
Entries 82
Mean −0.01574
Std Dev 1.093
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

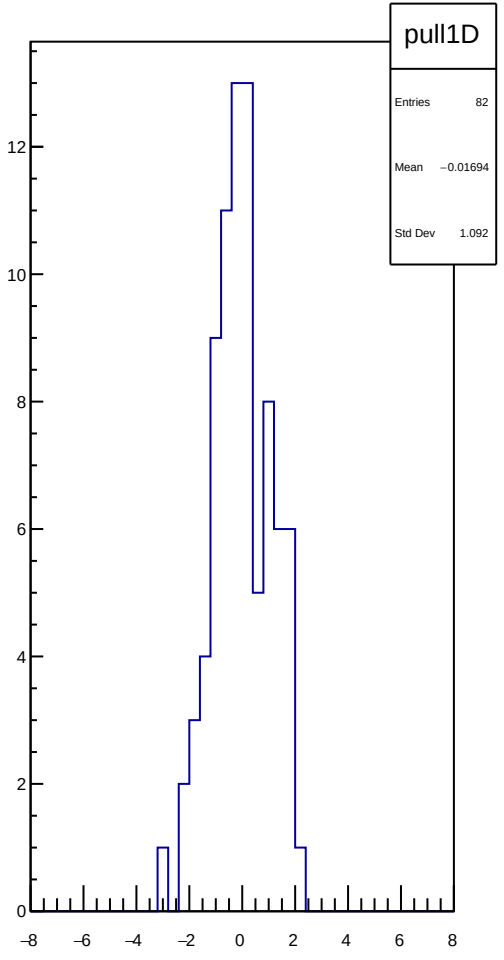

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.195e+04 / 81
p0 5533 ± 4.362
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

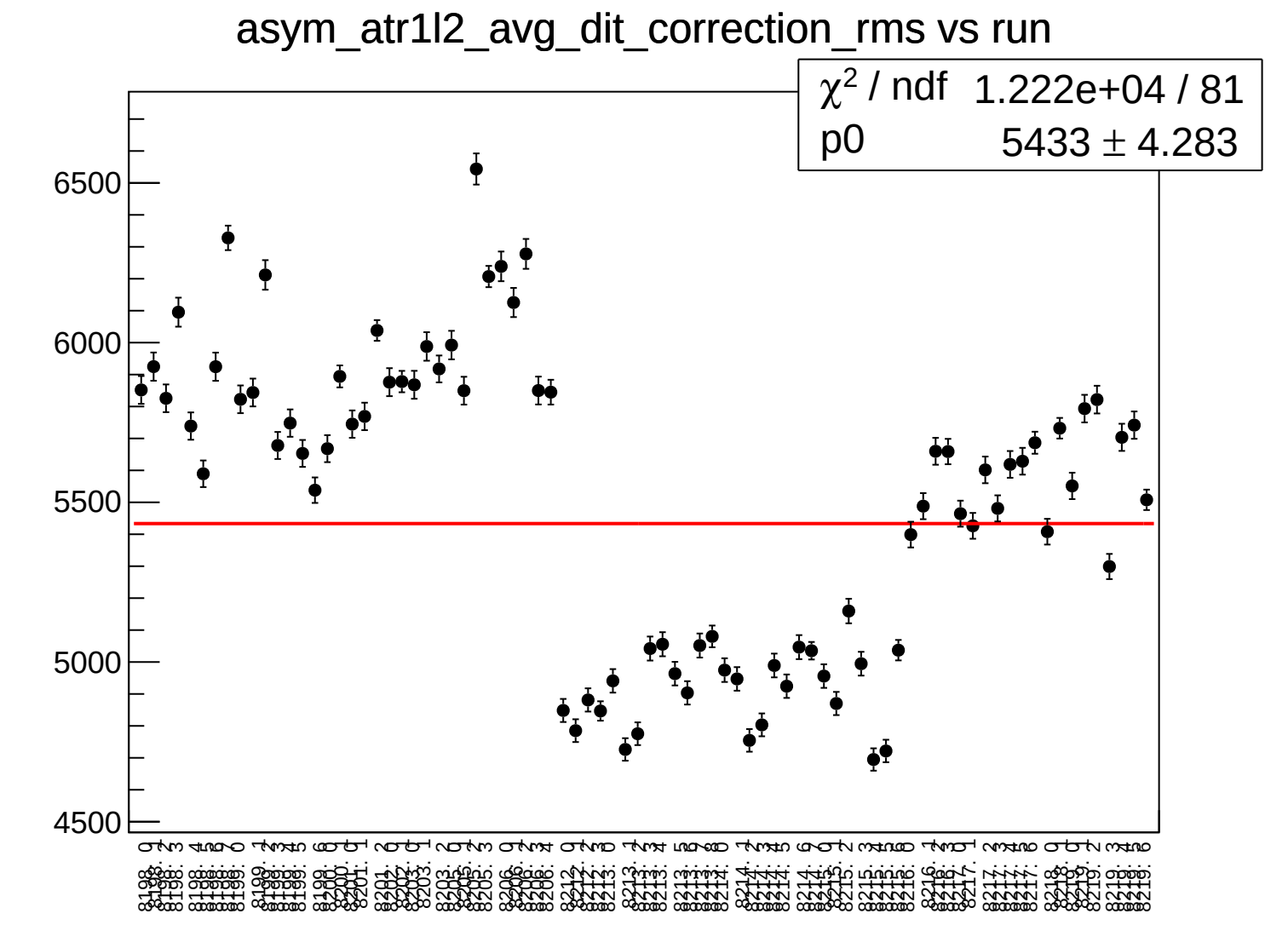

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 82.16 / 81
p0 −1481 ± 1984
pull
Entries 82
Mean −361.6
Std Dev 0

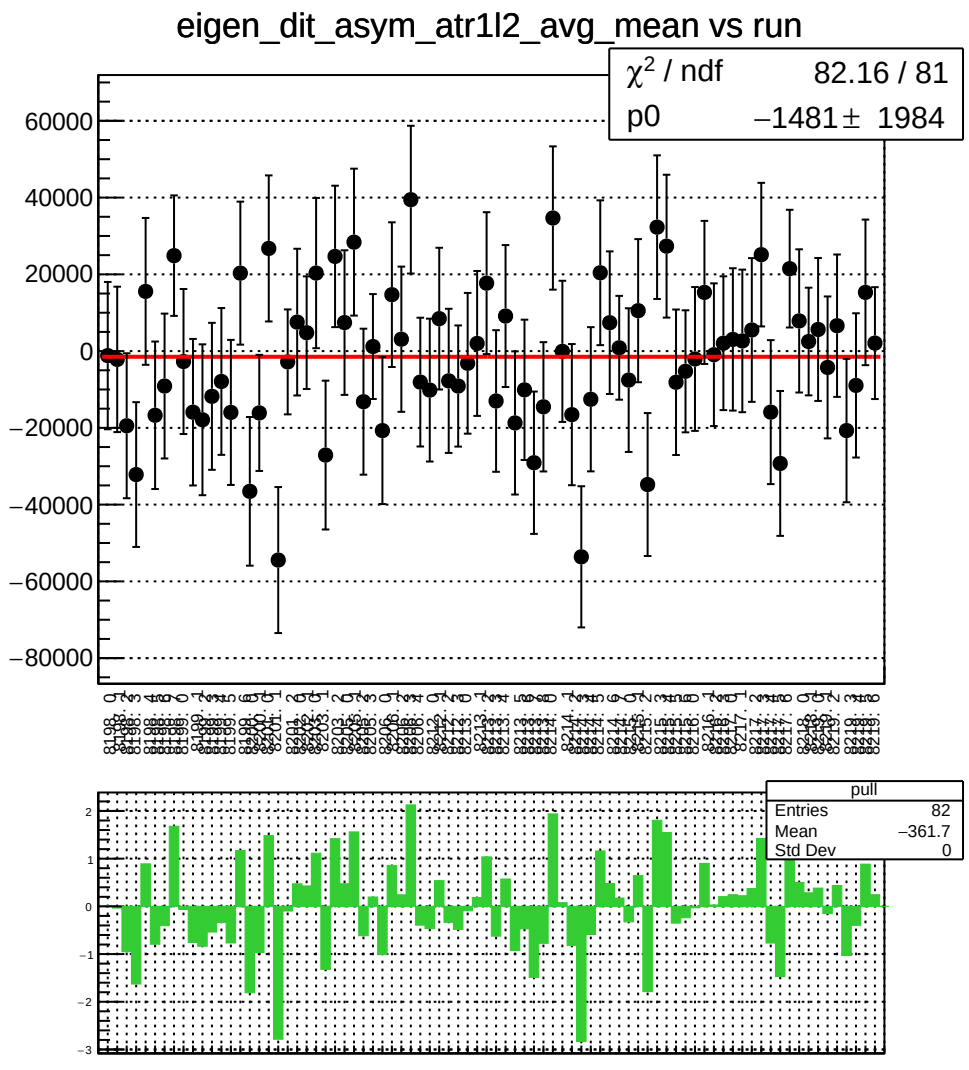

pull1D
Entries 82
Mean −0.007761
Std Dev 1.001

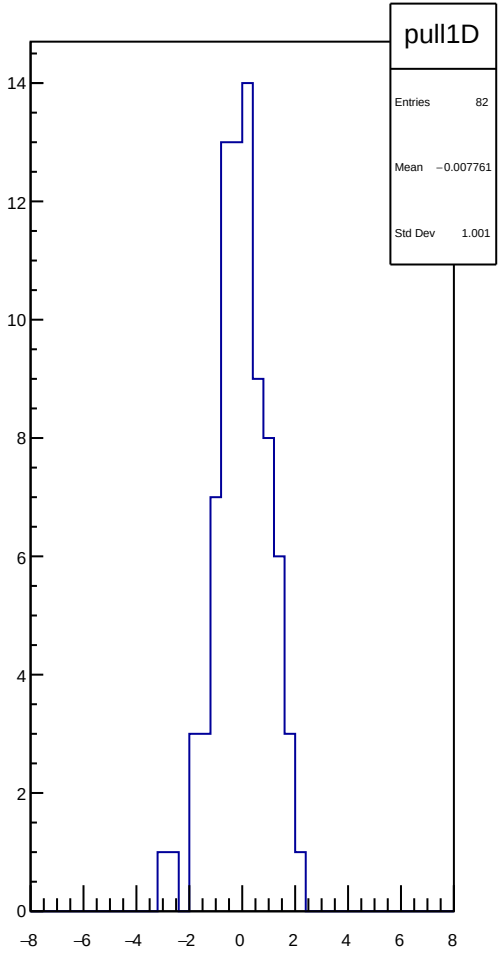

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 388.1 / 81
p0 1786 ± 1.403
1880
1860
1840
1820
1800
1780
1760
1740
1720


asym_atr1l2_avg_dit_correction_mean vs run
χ² / ndf 97.8 / 81
p0 −116.1± 6058
×10³
pull
Entries 82
Mean 70.64
Std Dev 0

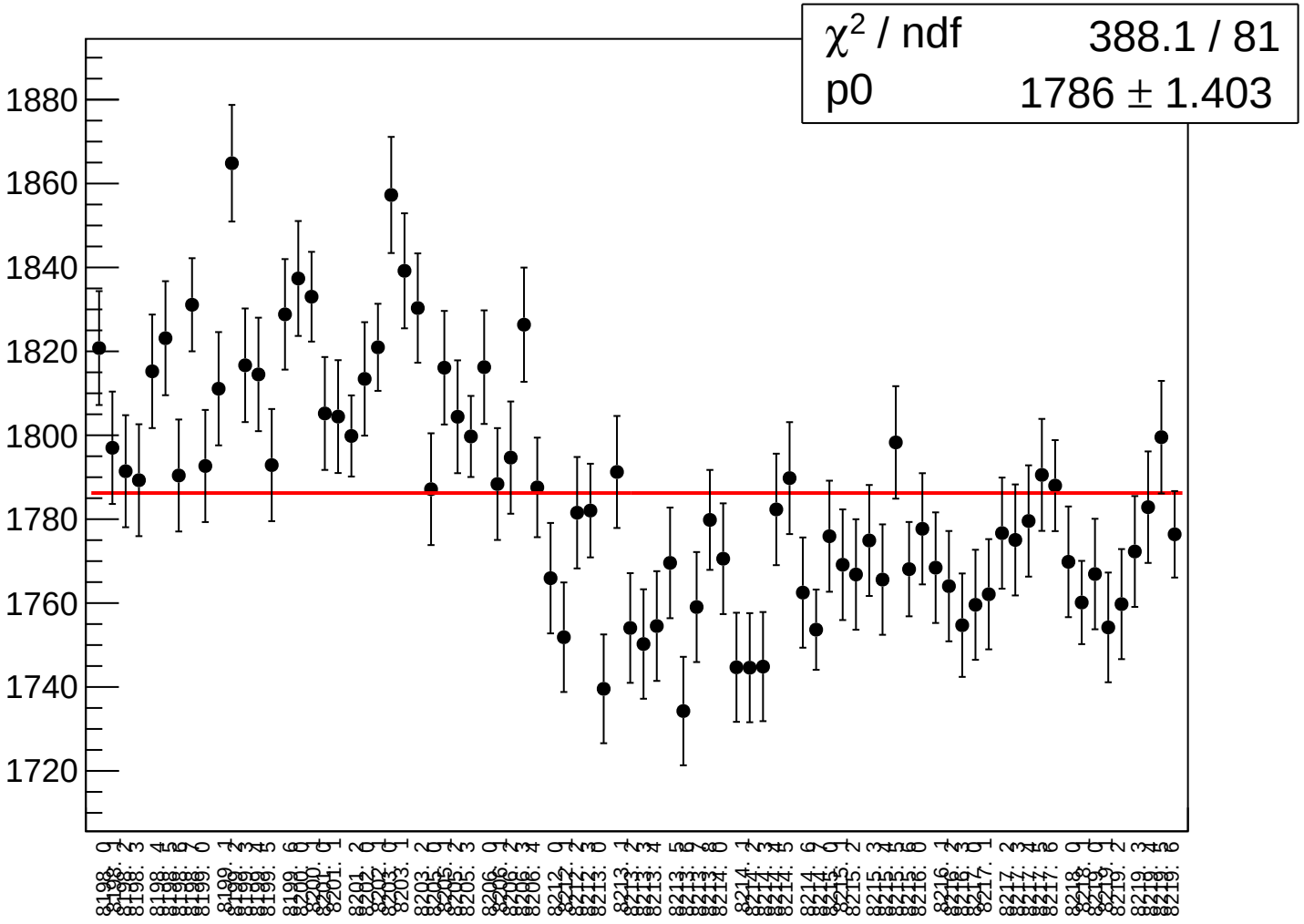

pull1D
Entries 82
Mean −0.01694
Std Dev 1.092

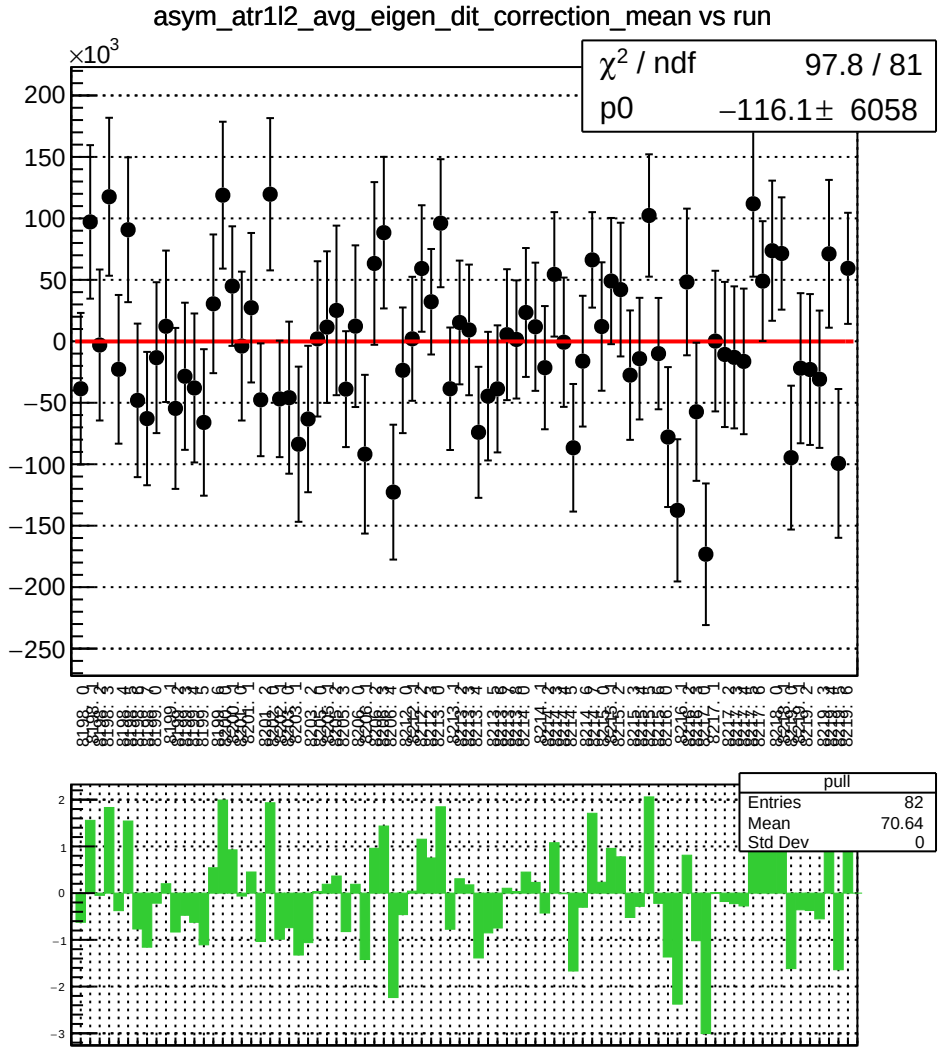

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1.222e+04 / 81
p0 5433 ± 4.283
6500
6000
5500
5000
4500

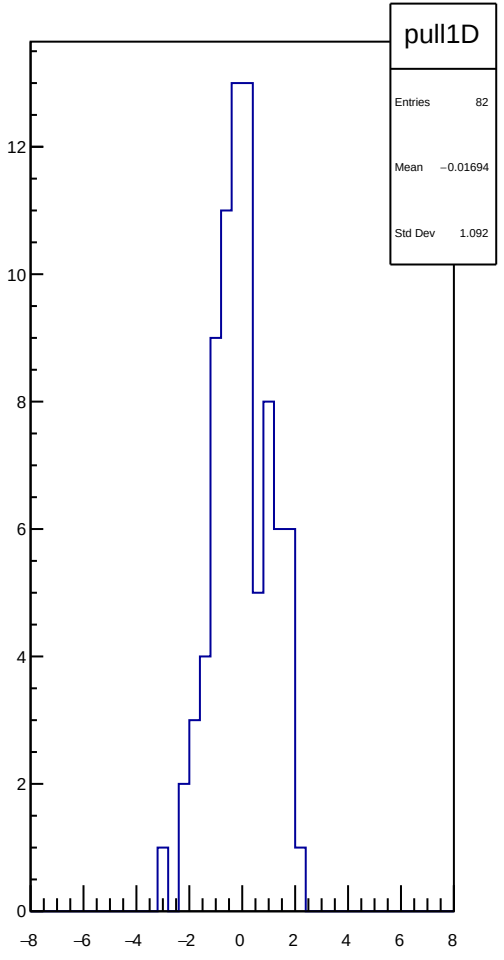

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 82.16 / 81
p0 −1481 ± 1984
pull
Entries 82
Mean −361.7
Std Dev 0

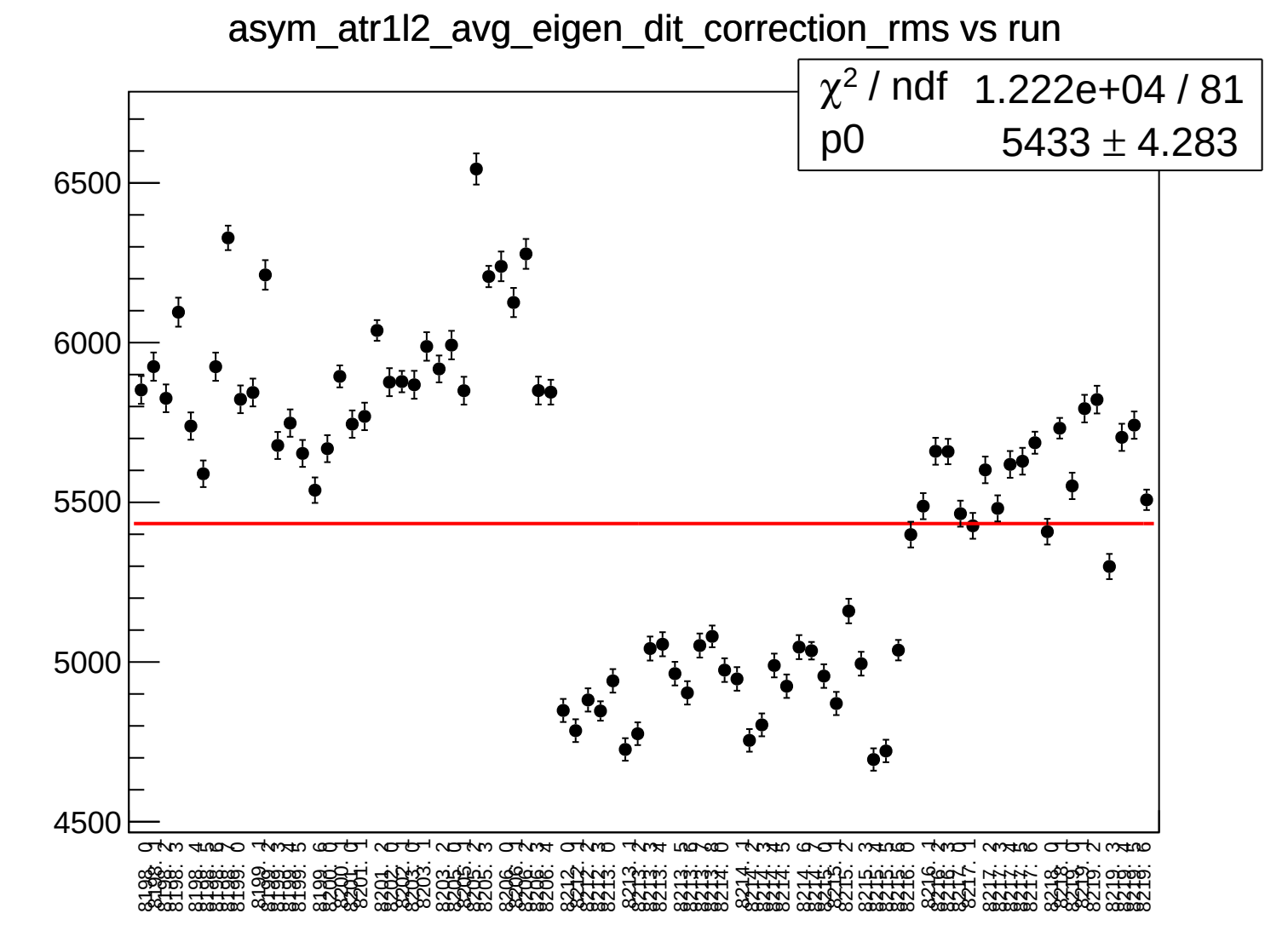

pull1D
Entries 82
Mean −0.007761
Std Dev 1.001

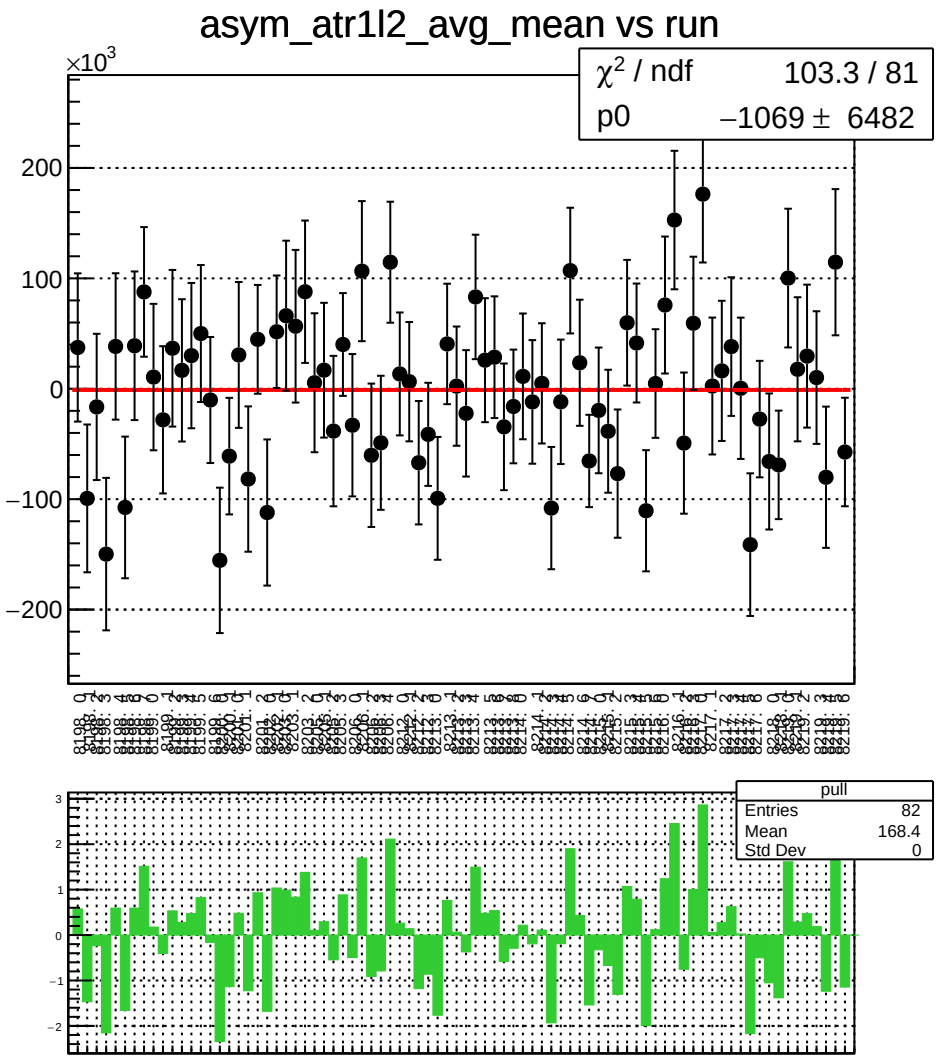
# eigen_dit_asym_atr1l2_avg_rms vs run

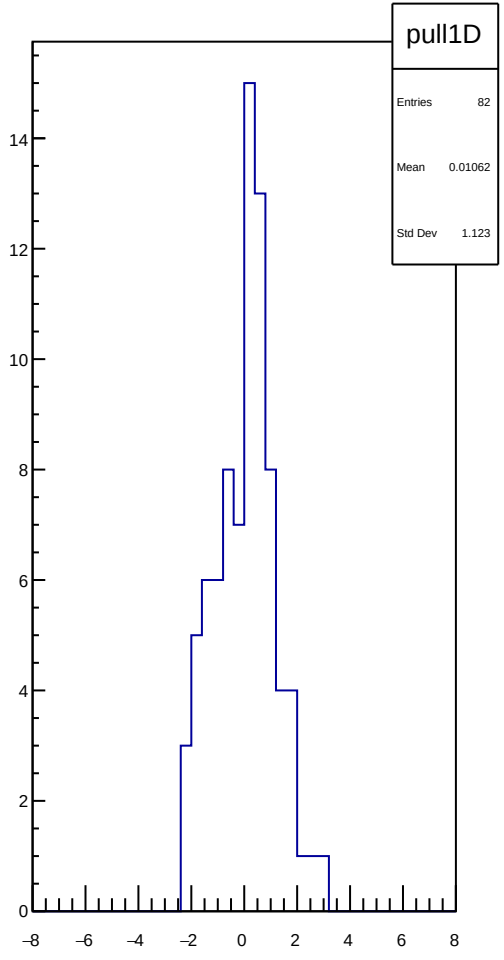


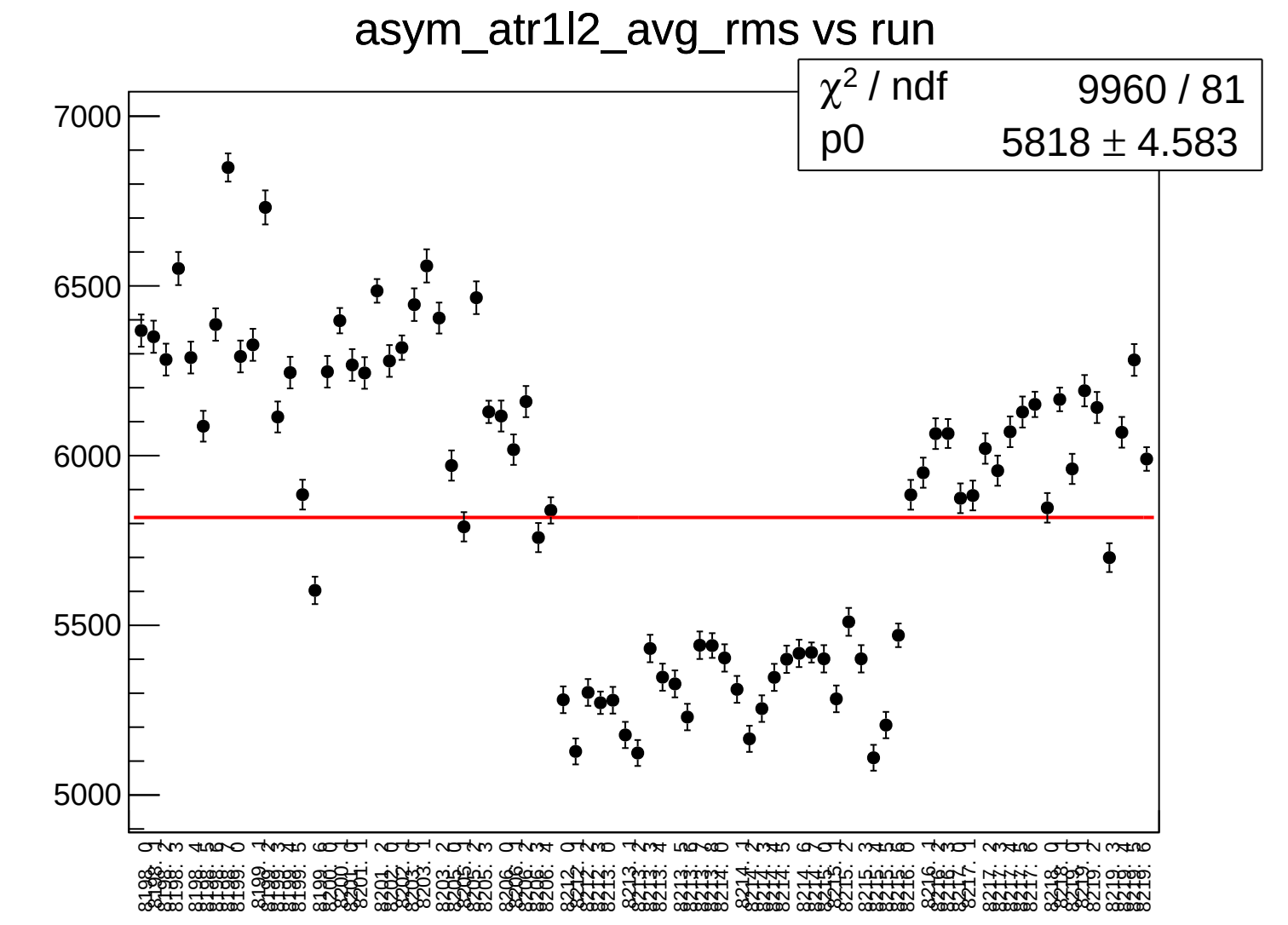

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.8 / 81
p0 −116.1± 6058
pull
Entries 82
Mean 70.64
Std Dev 0

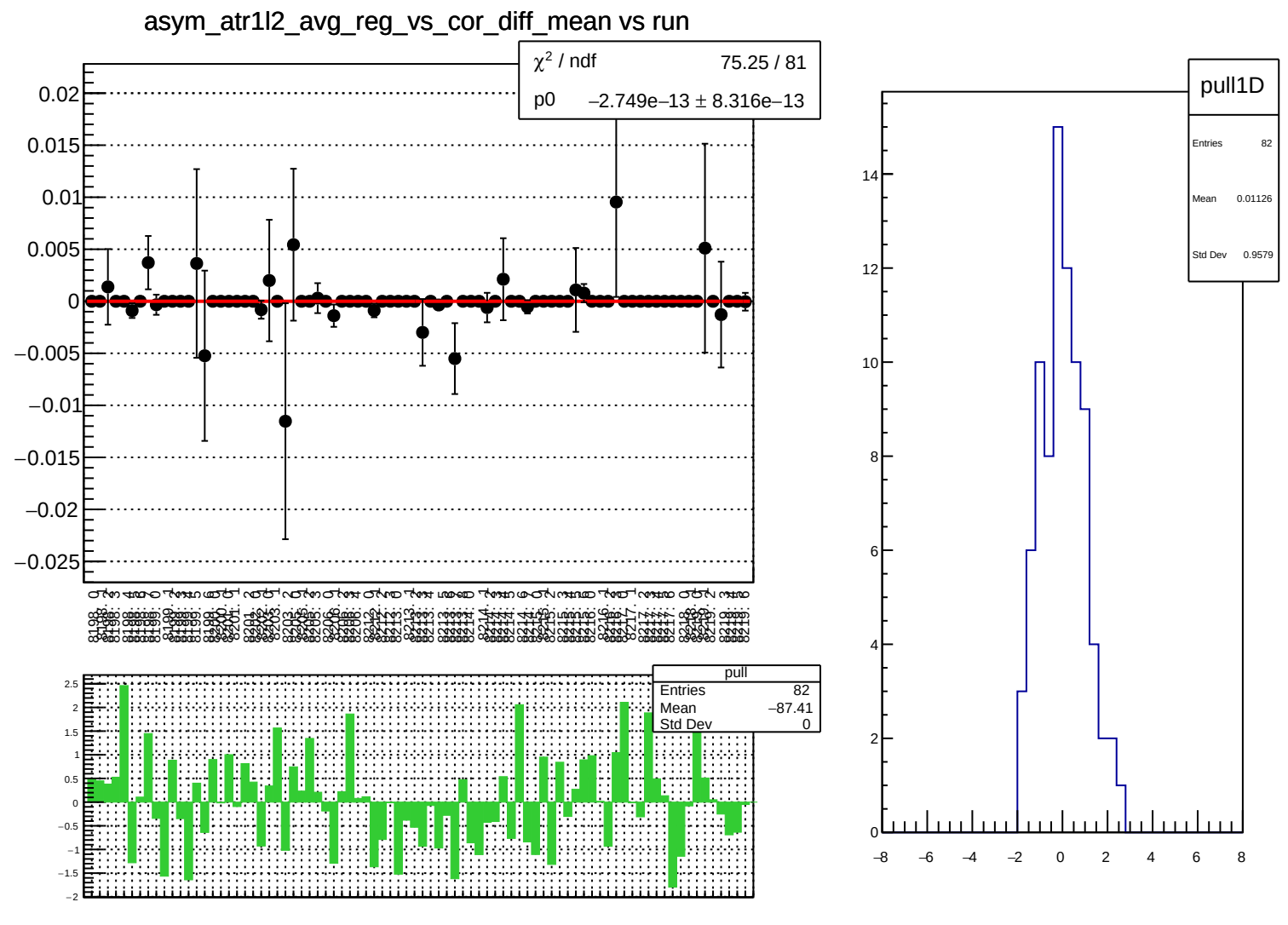

pull1D
Entries 82
Mean −0.01694
Std Dev 1.092

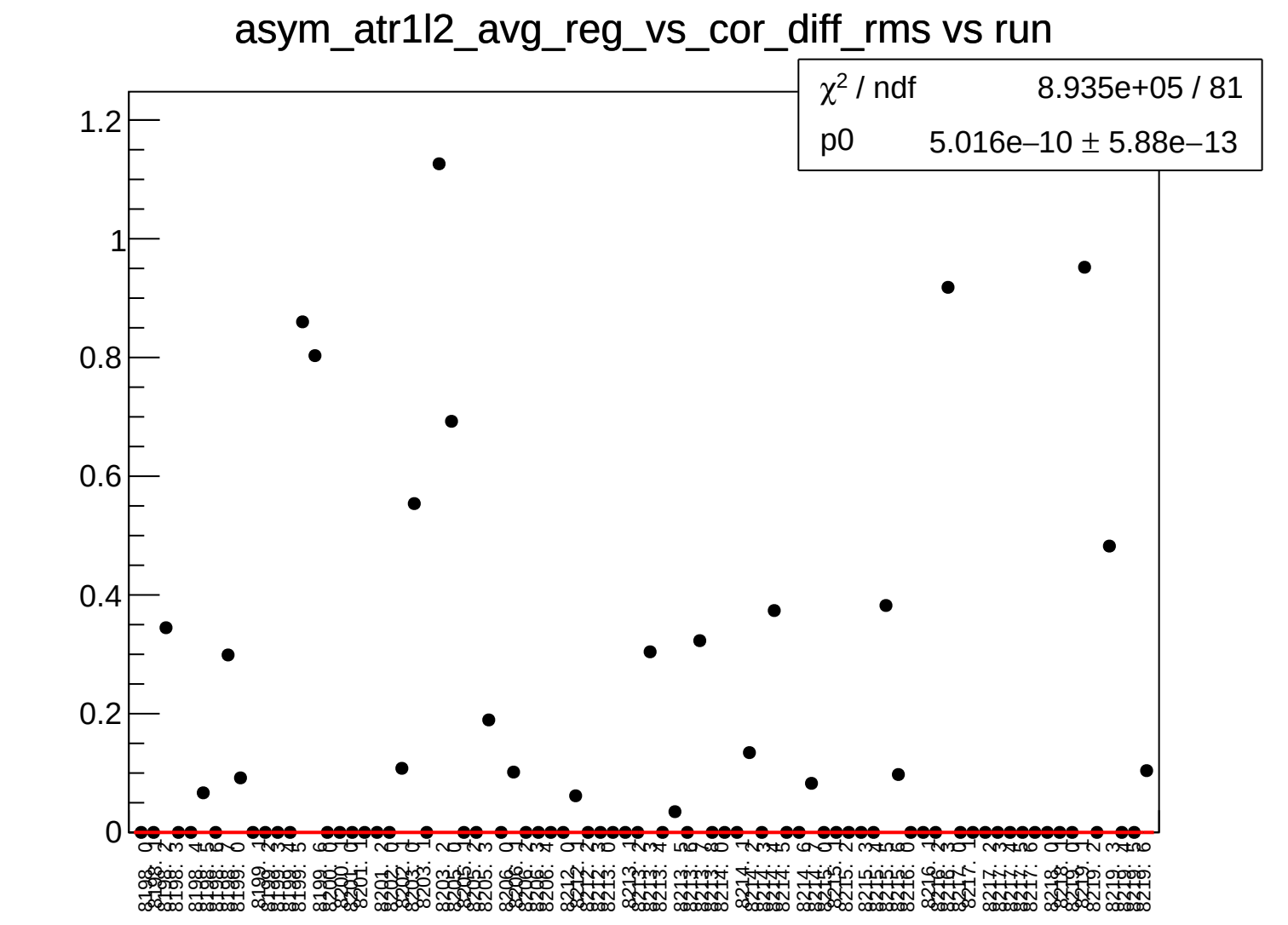

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.222e+04 / 81
p0 5433 ± 4.283
6500
6000
5500
5000
4500

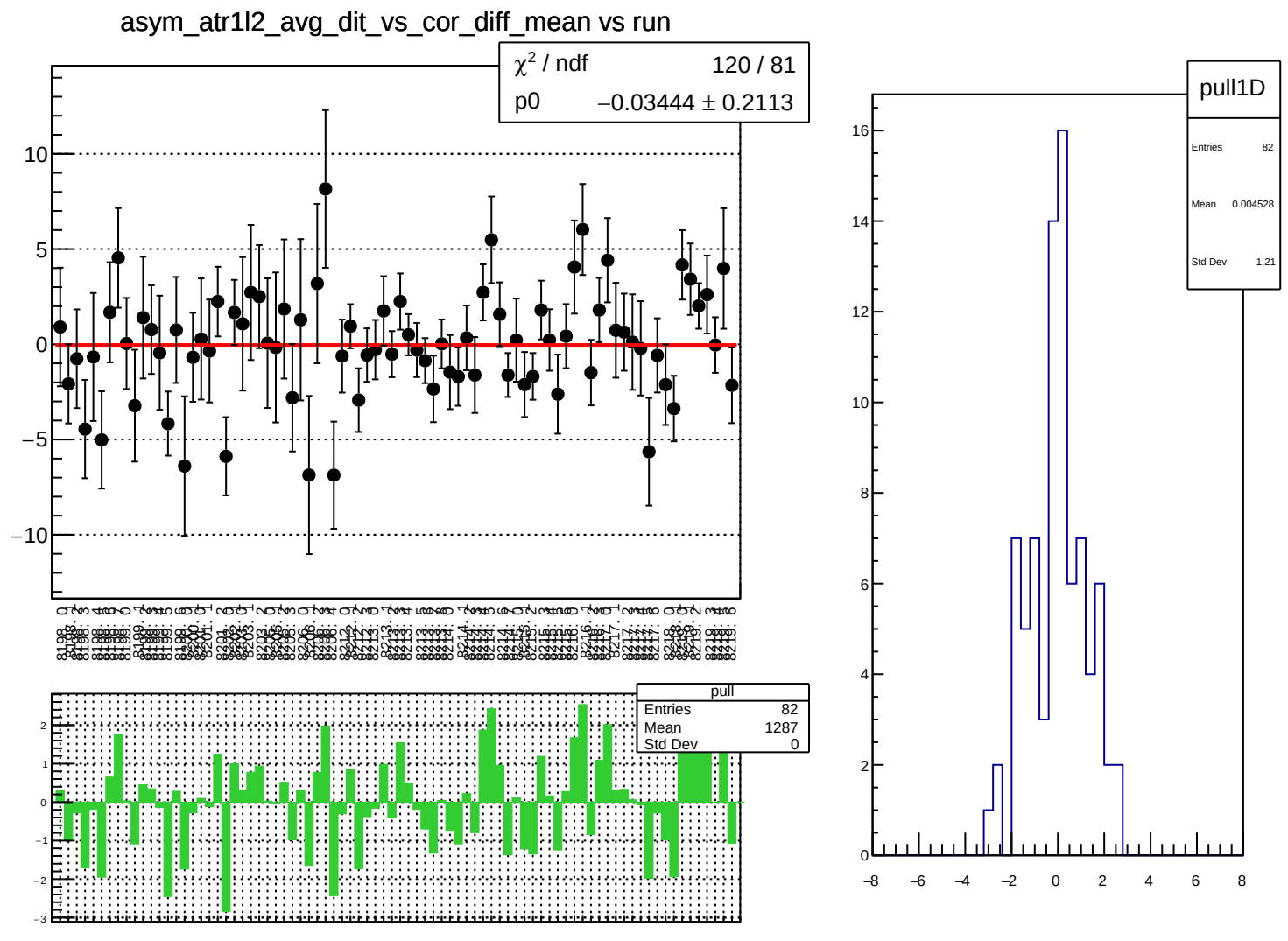

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 103.3 / 81
p0 −1069 ± 6482
200
100
0
−100
−200
pull
Entries 82
Mean 168.4
Std Dev 0
3
2
1
0
−1
−2

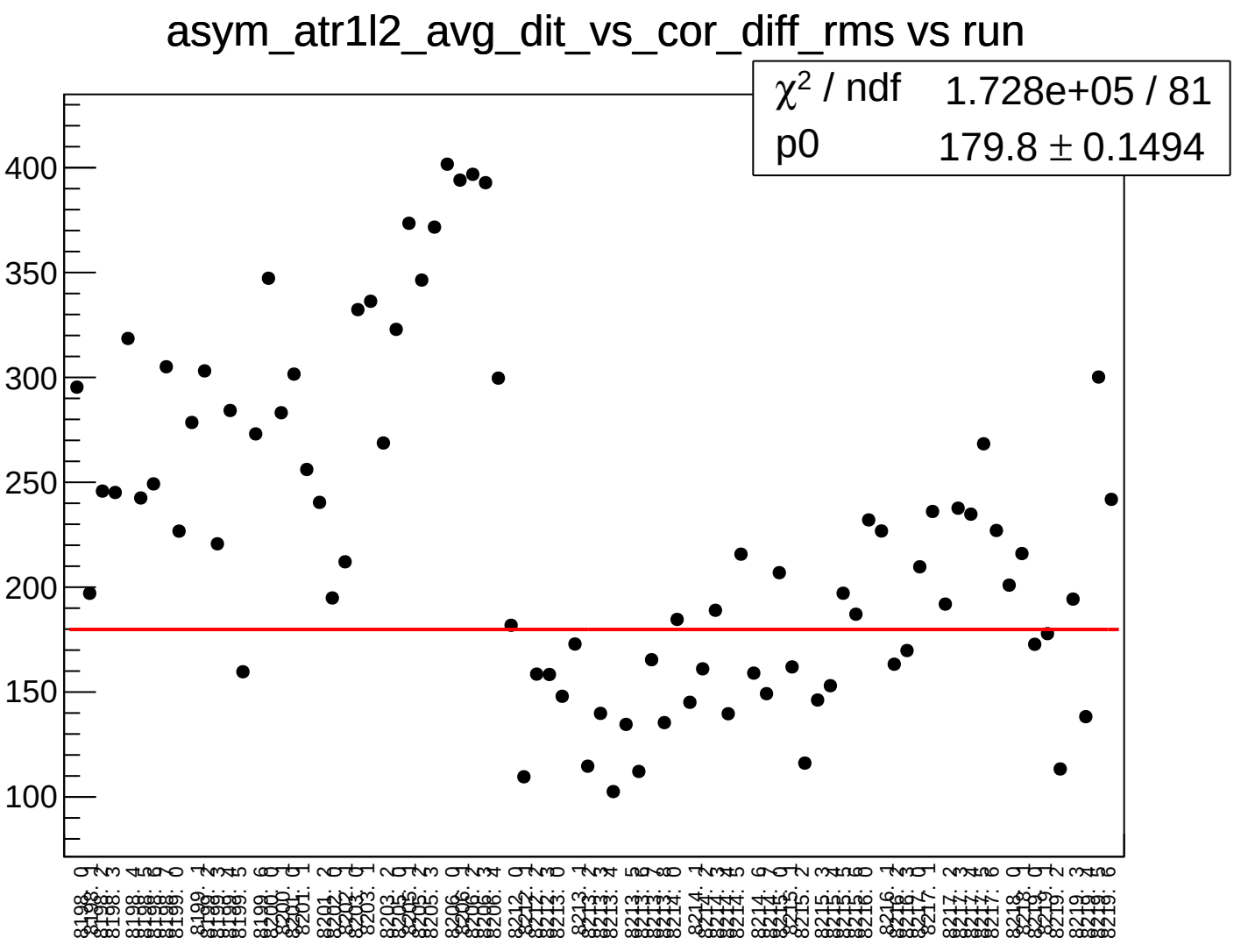

pull1D
Entries 82
Mean 0.01062
Std Dev 1.123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

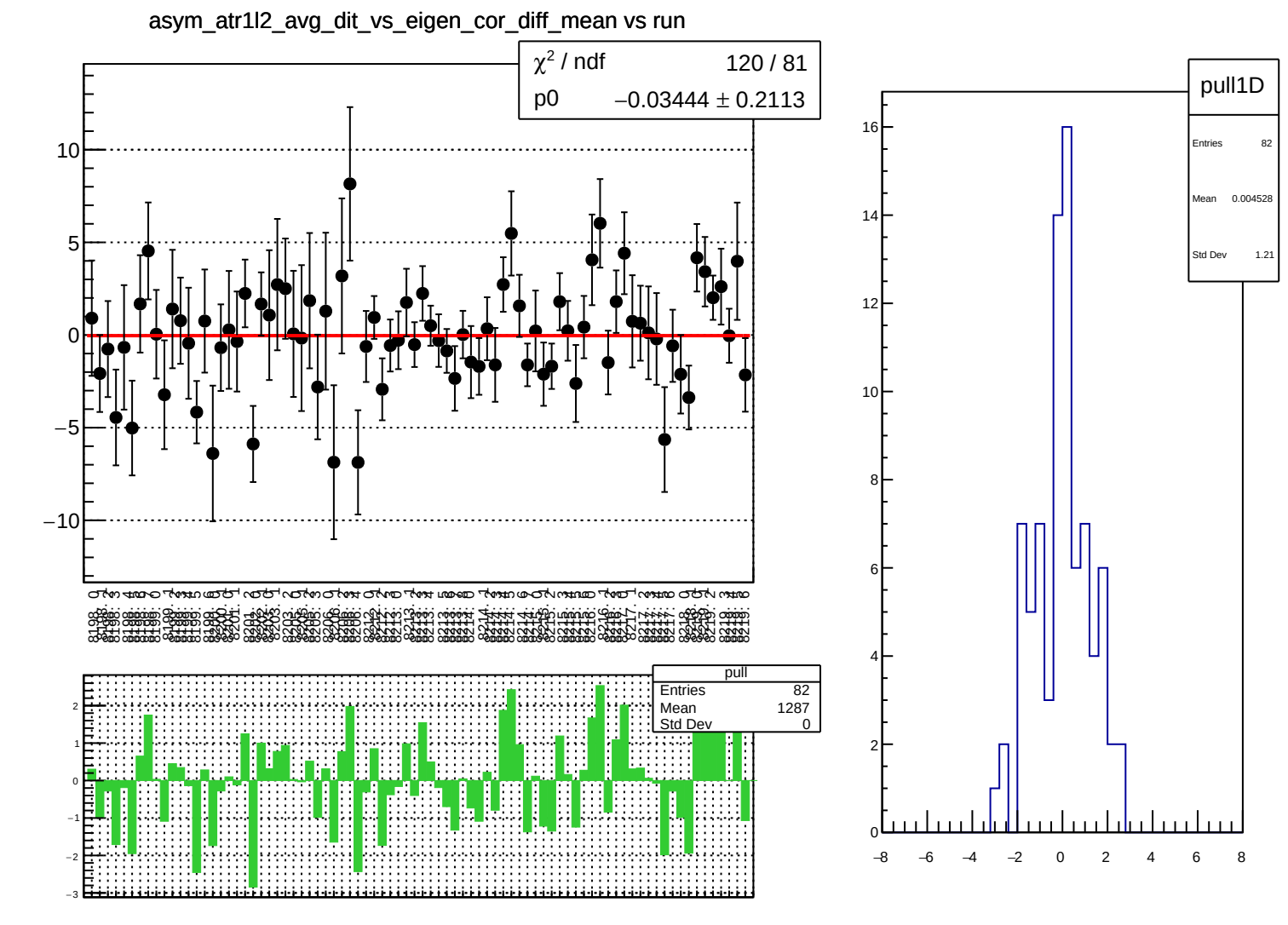

asym_atr1l2_avg_rms vs run
$\chi^2$ / ndf 9960 / 81
p0 5818 ± 4.583
7000
6500
6000
5500
5000

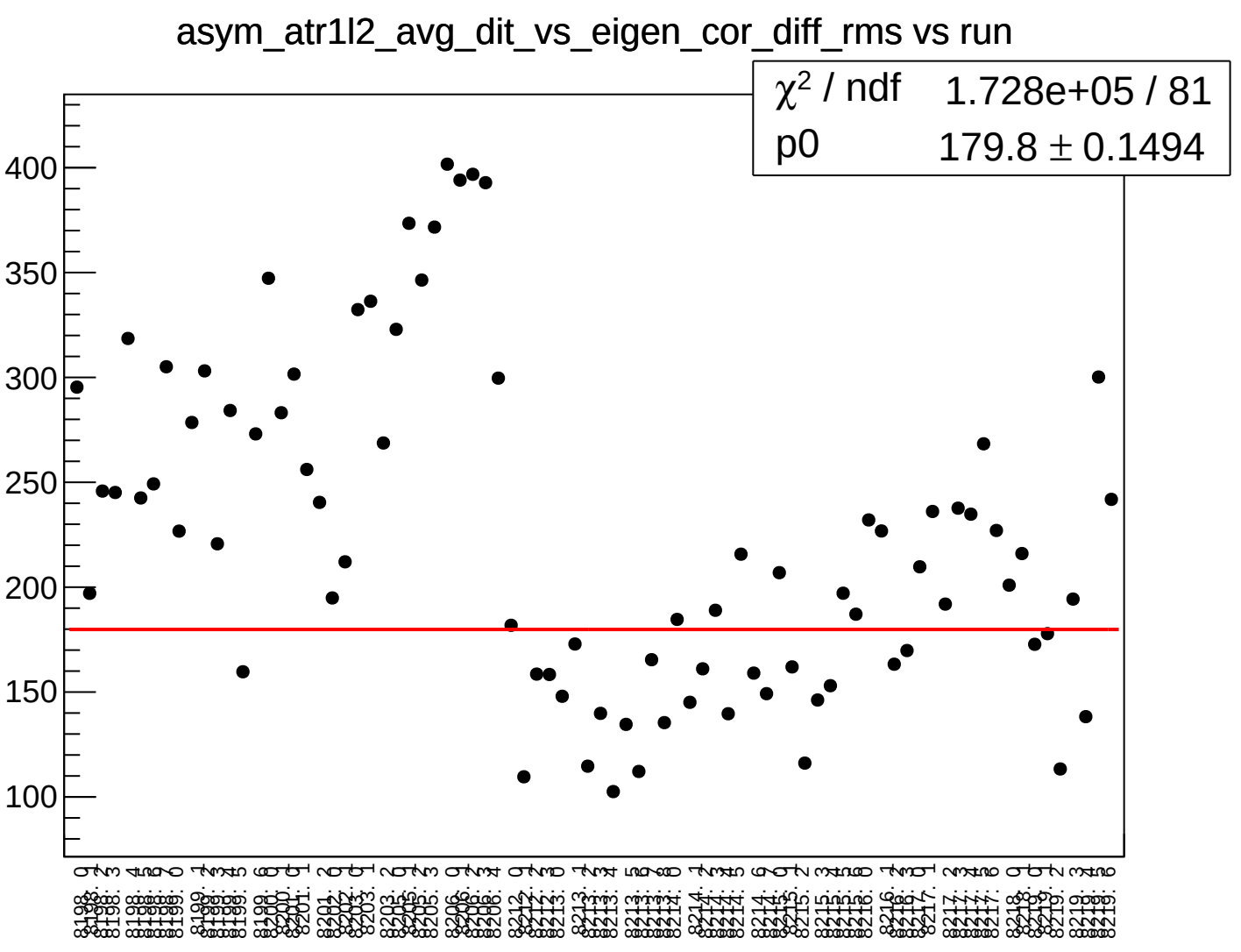

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.25 / 81
p0 −2.749e−13 ± 8.316e−13
pull
Entries 82
Mean −87.41
Std Dev 0
pull1D
Entries 82
Mean 0.01126
Std Dev 0.9579

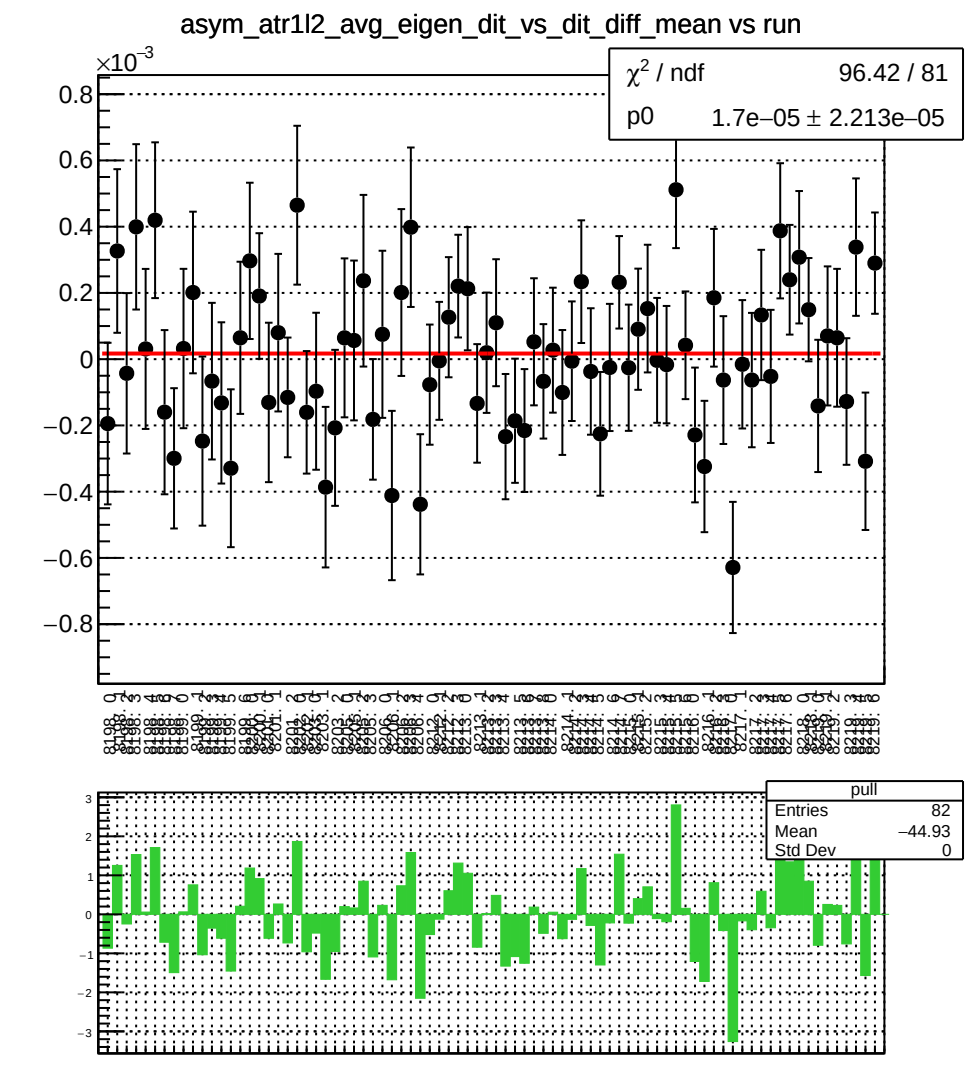

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.935e+05 / 81
p0 5.016e−10 ± 5.88e−13
1.2
1
0.8
0.6
0.4
0.2
0

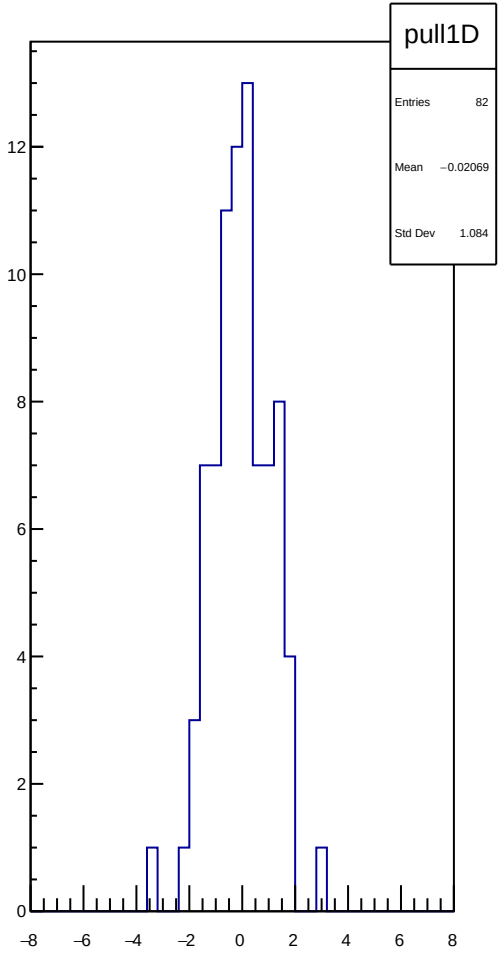

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 120 / 81
p0 −0.03444 ± 0.2113
pull
Entries 82
Mean 1287
Std Dev 0
pull1D
Entries 82
Mean 0.004528
Std Dev 1.21

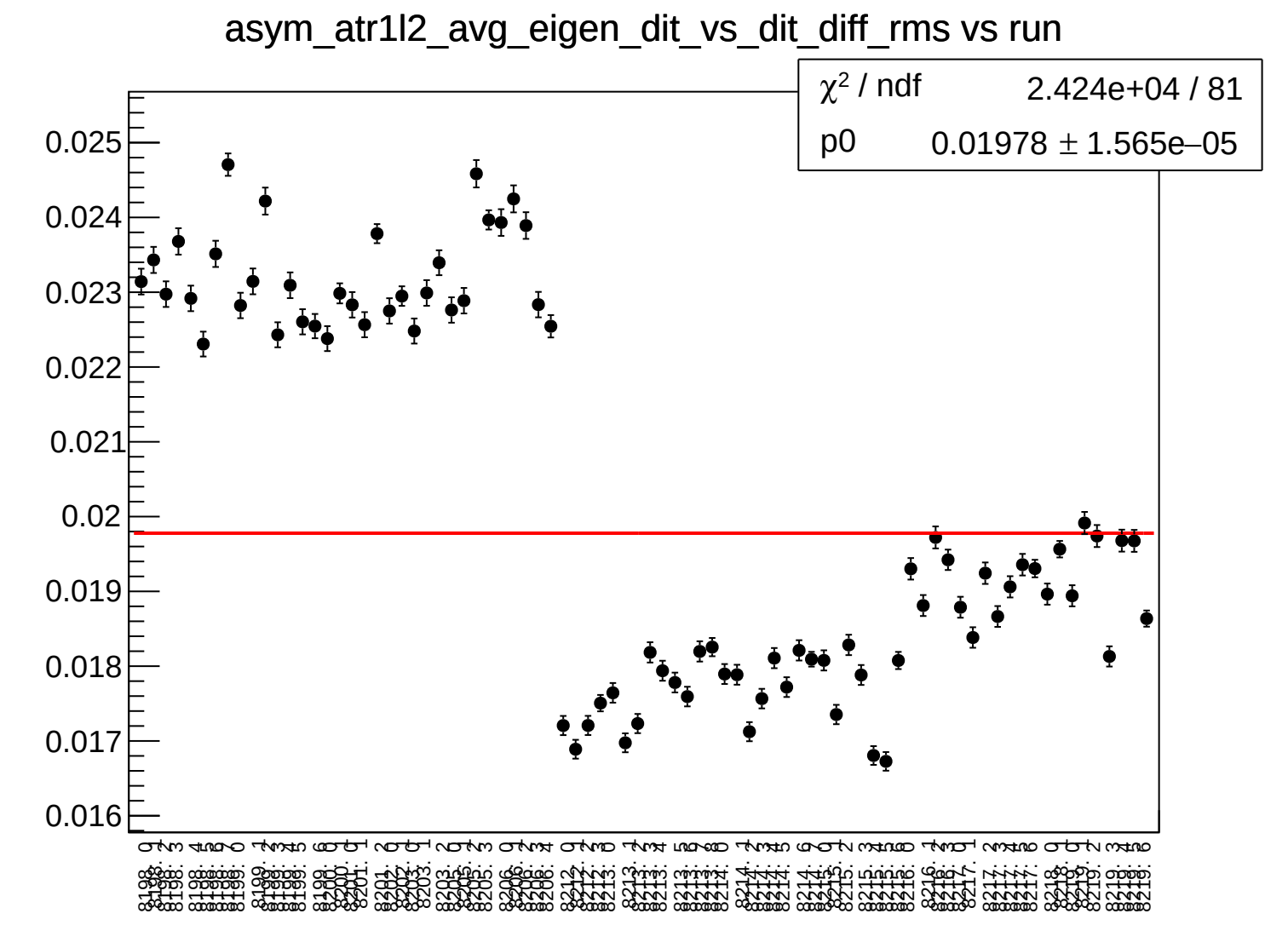

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.728e+05 / 81
p0 179.8 ± 0.1494
400
350
300
250
200
150
100

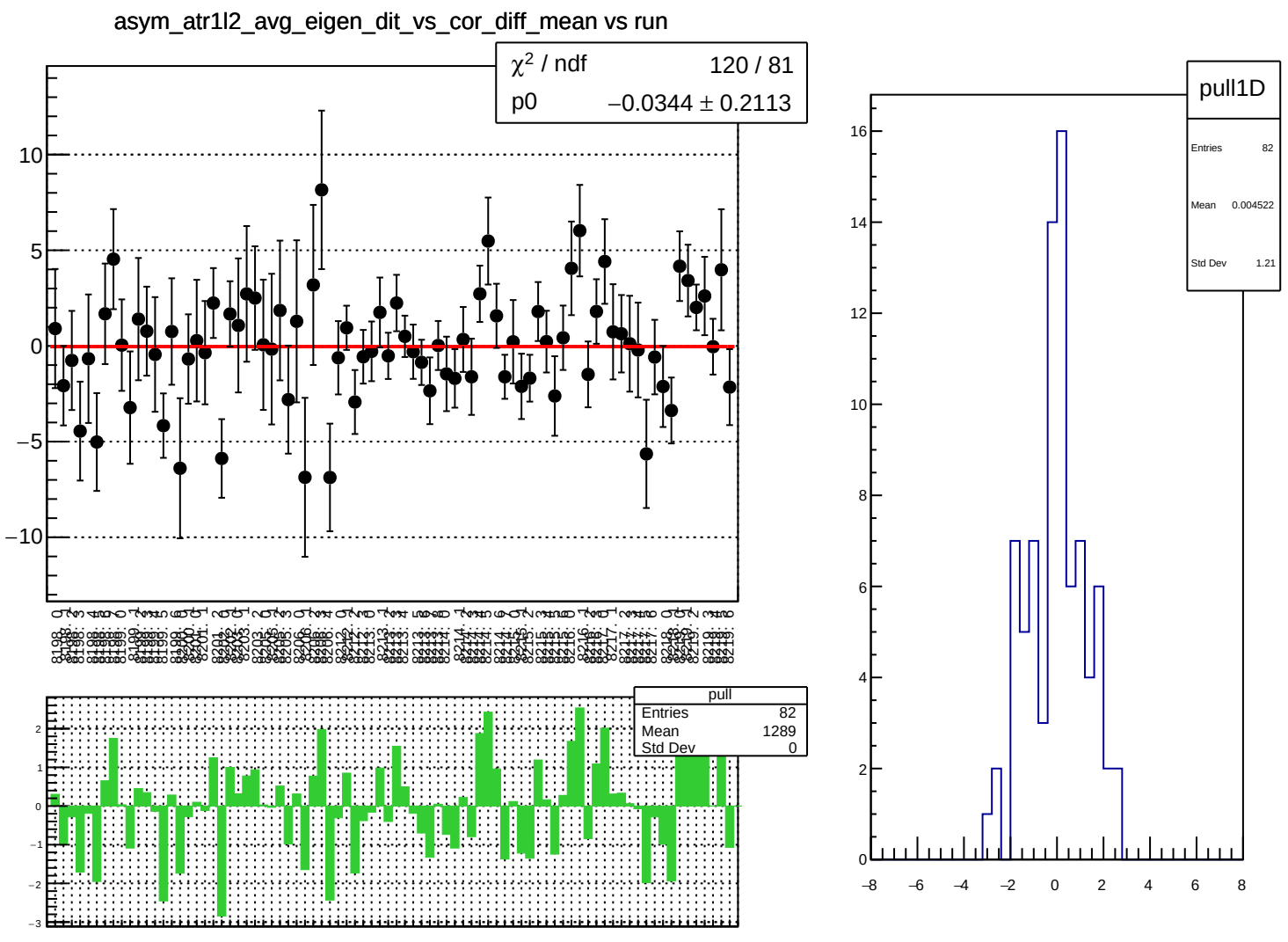

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120 / 81
p0 −0.03444 ± 0.2113
pull
Entries 82
Mean 1287
Std Dev 0
pull1D
Entries 82
Mean 0.004528
Std Dev 1.21

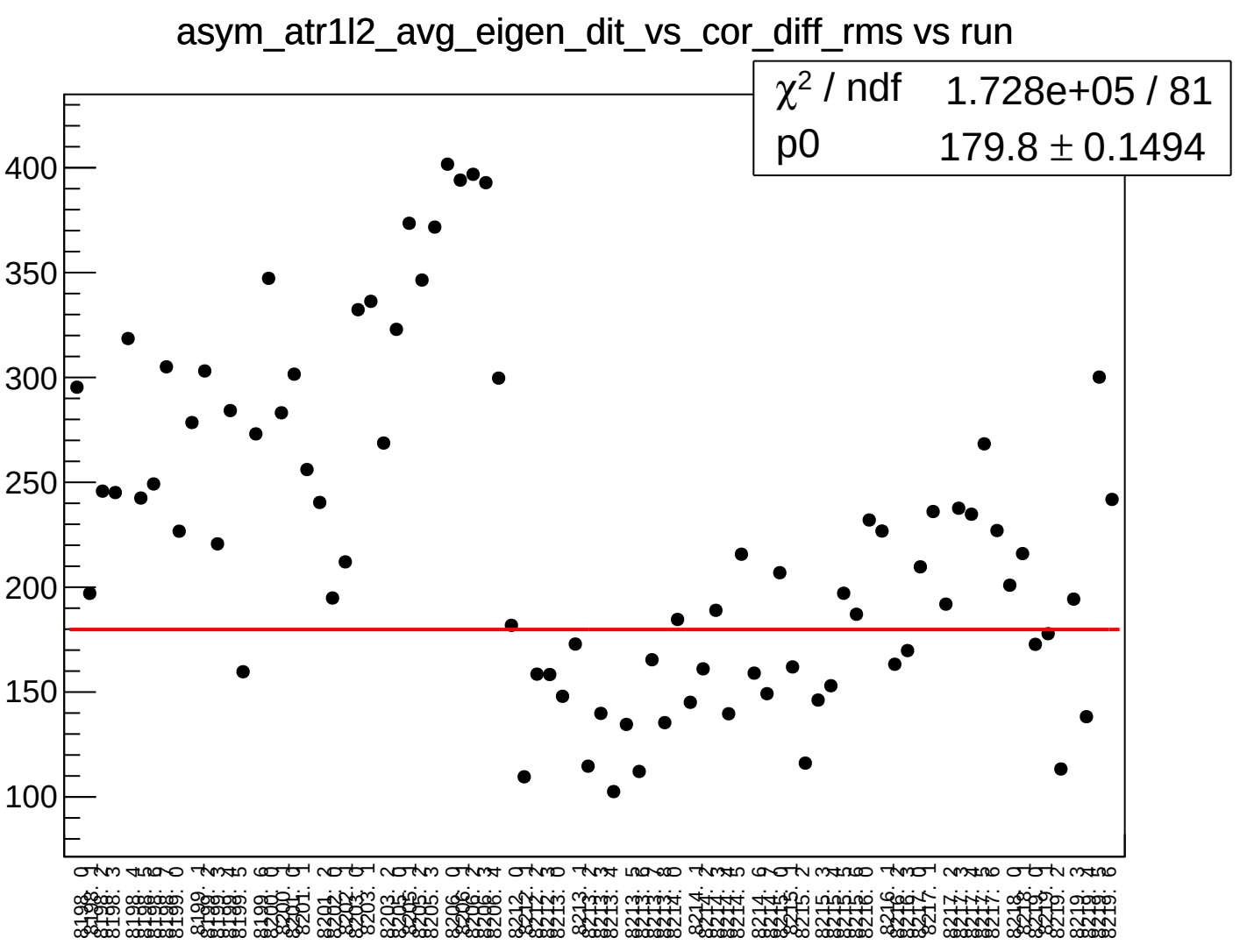

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.728e+05 / 81
p0 179.8 ± 0.1494
400
350
300
250
200
150
100

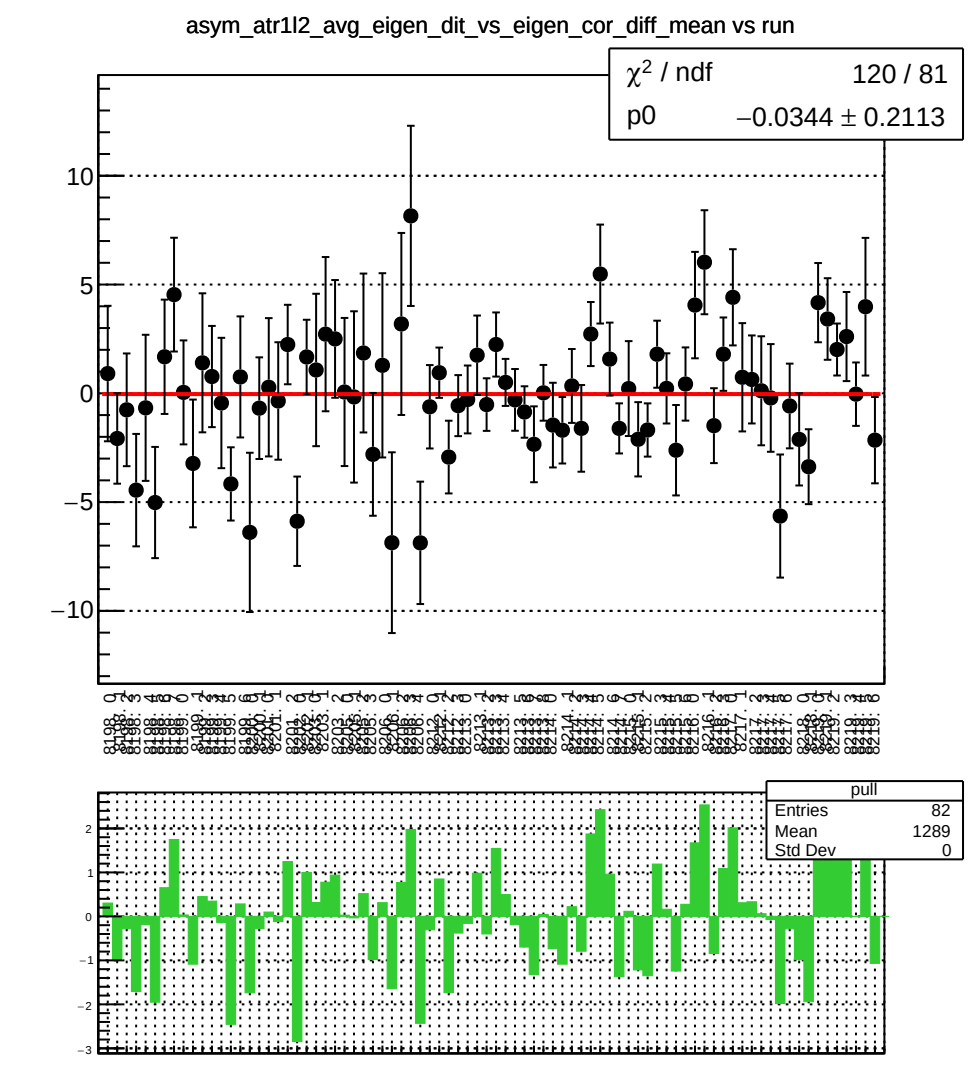

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.42 / 81
p0 1.7e−05 ± 2.213e−05
pull
Entries 82
Mean −44.93
Std Dev 0

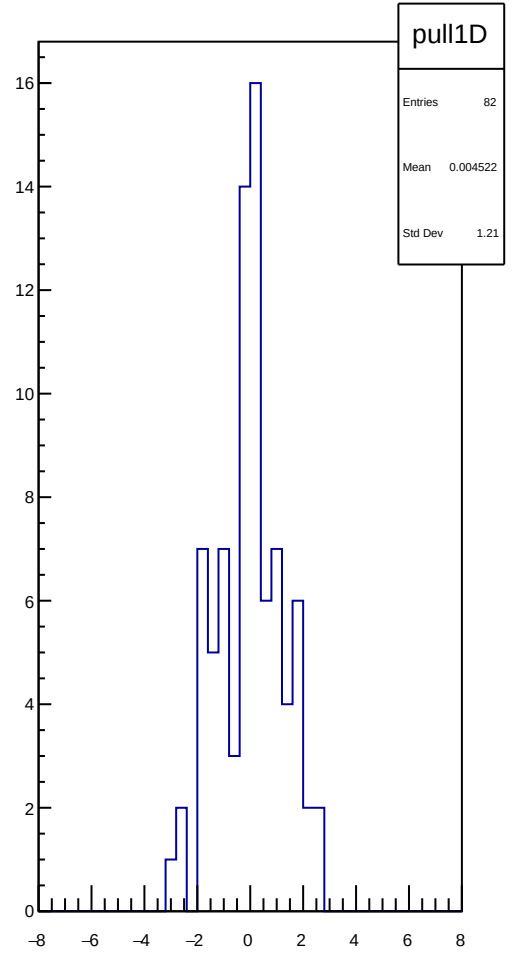

pull1D
Entries 82
Mean −0.02069
Std Dev 1.084

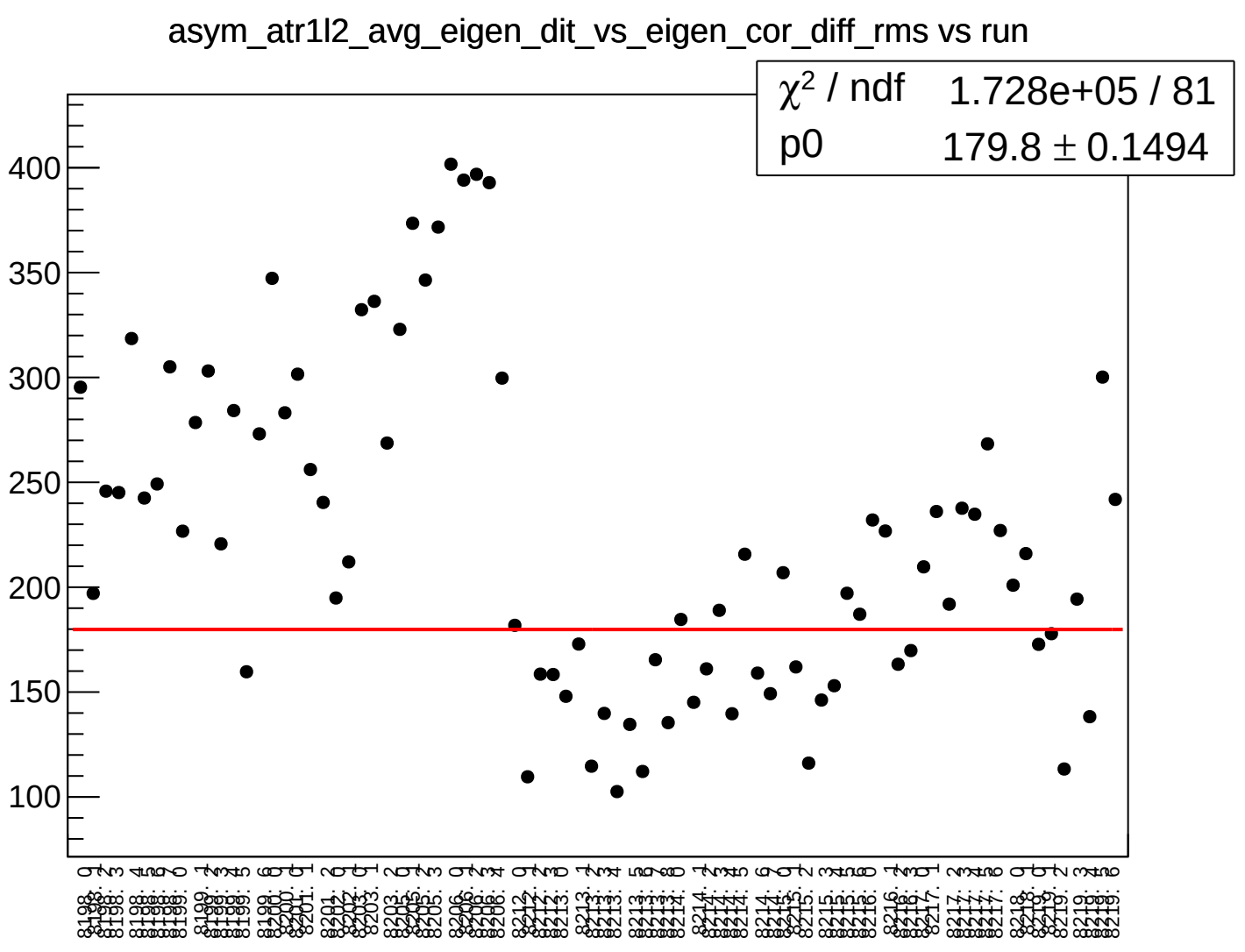

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.424e+04 / 81
p0 0.01978 ± 1.565e−05
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016

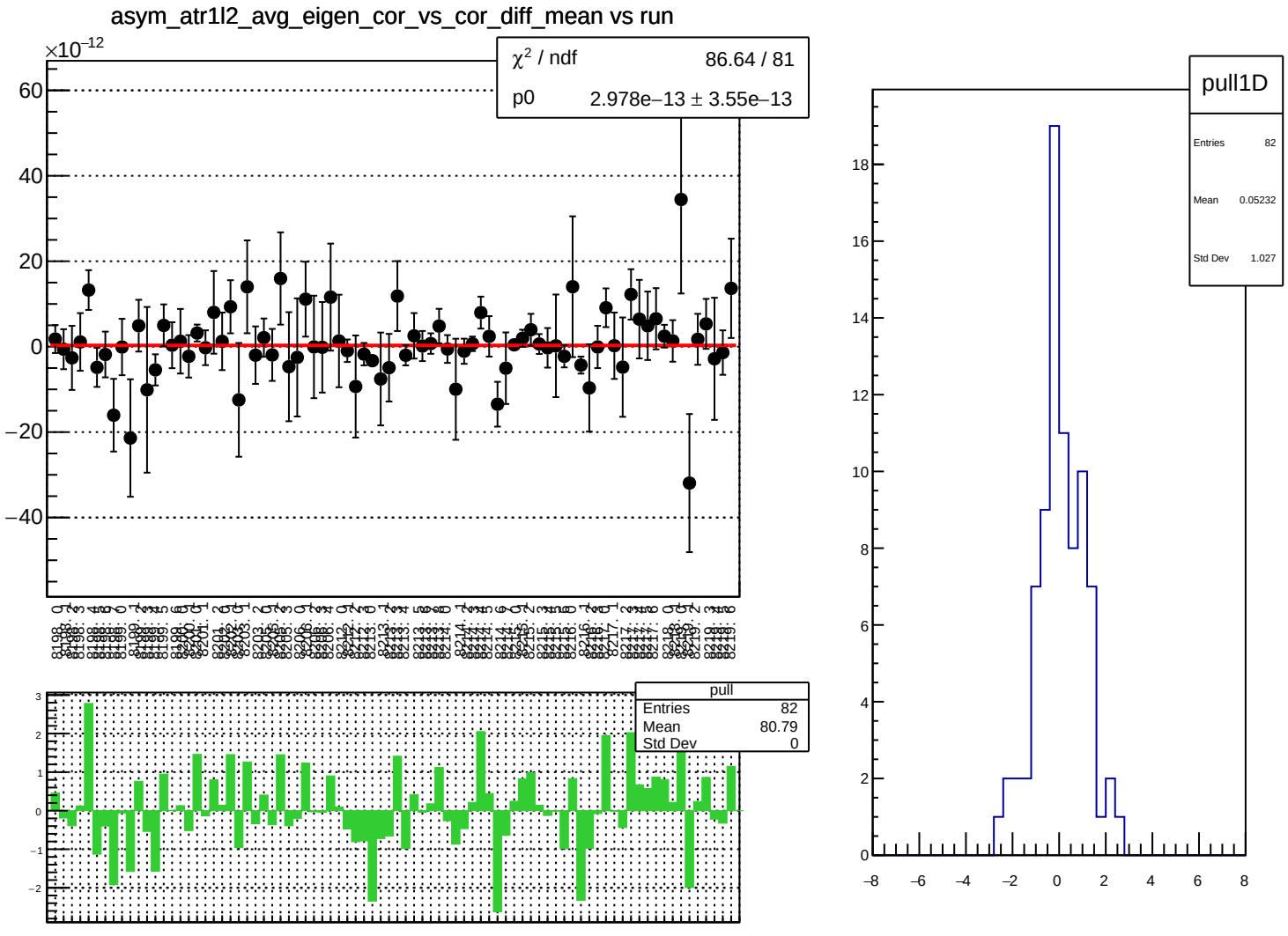

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 120 / 81
p0 −0.0344 ± 0.2113
pull
Entries 82
Mean 1289
Std Dev 0
pull1D
Entries 82
Mean 0.004522
Std Dev 1.21

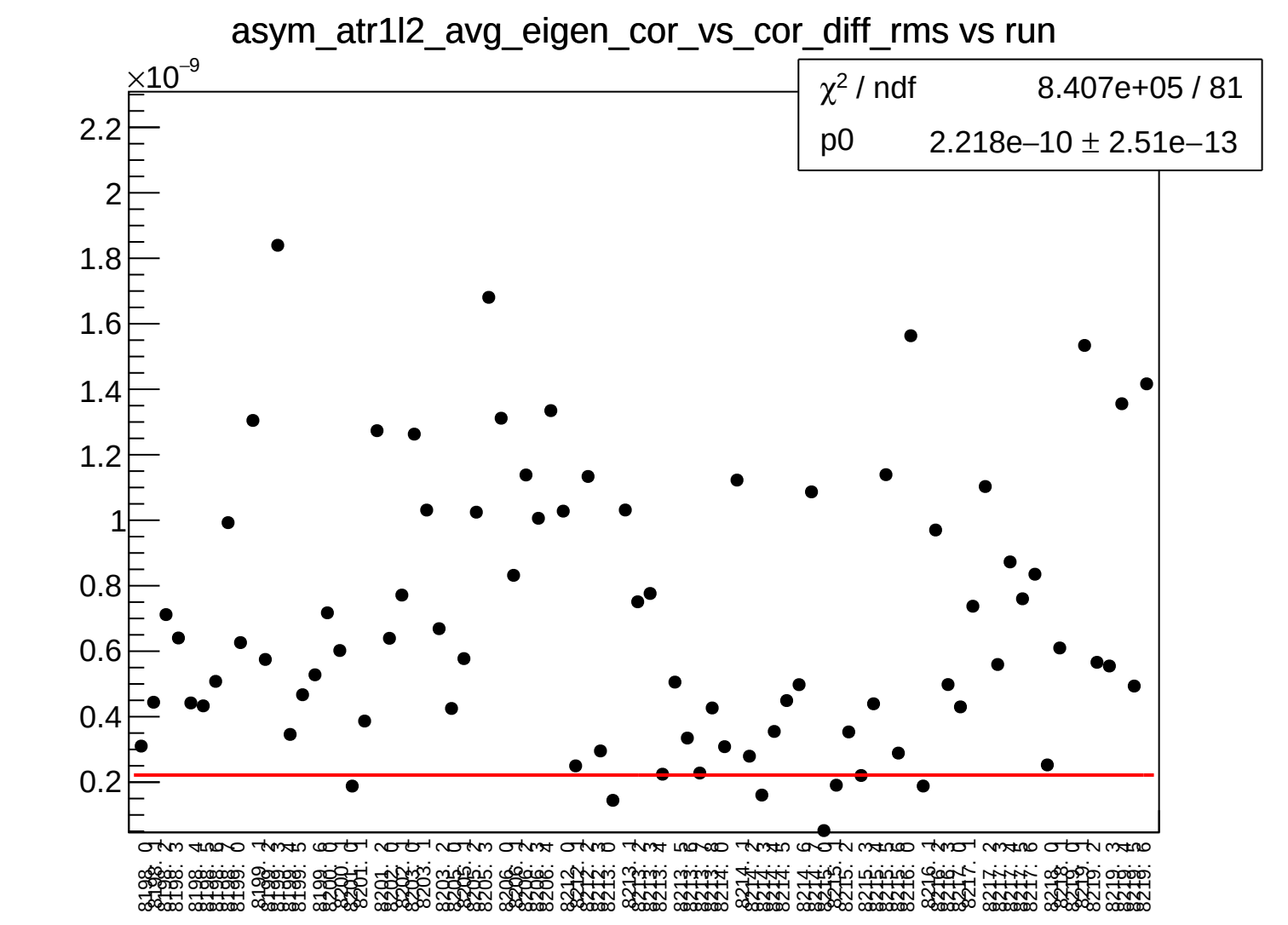

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.728e+05 / 81
p0 179.8 ± 0.1494
400
350
300
250
200
150
100

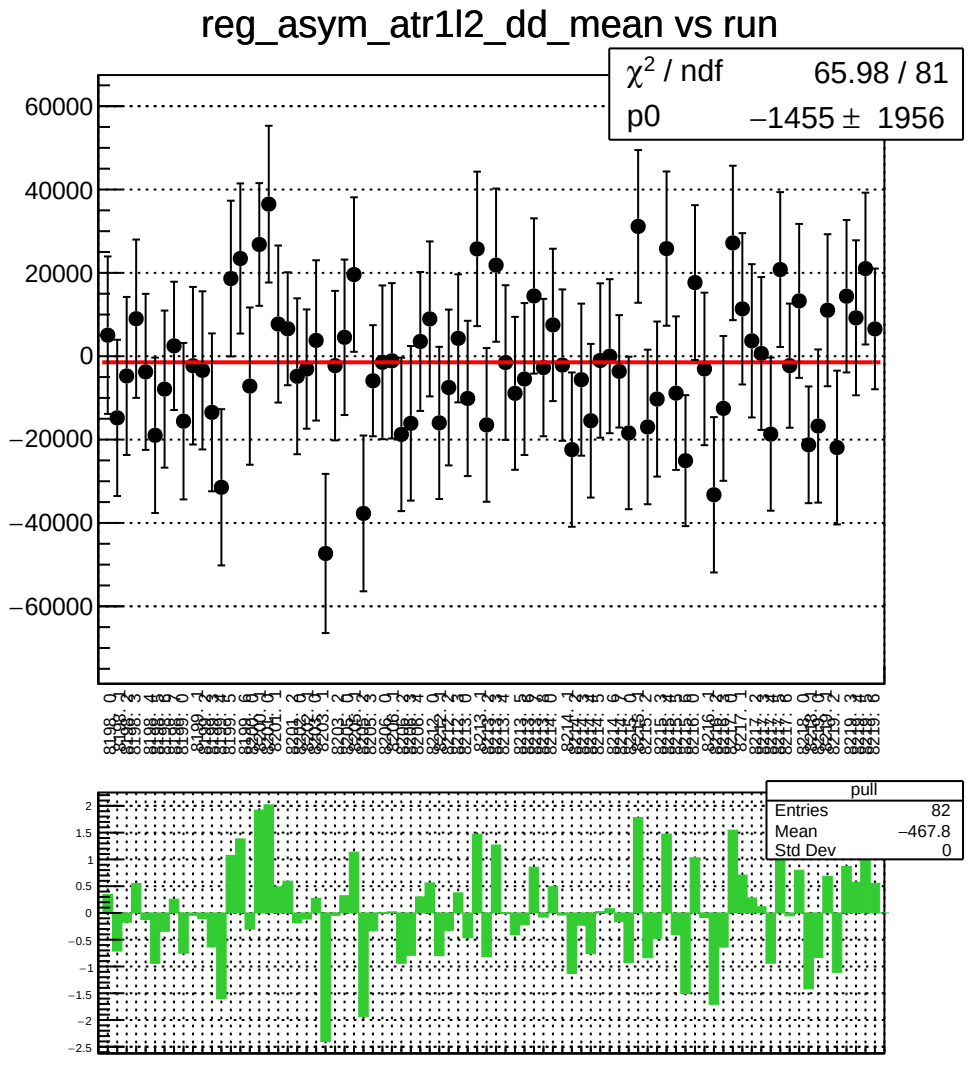

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120 / 81
p0 −0.0344 ± 0.2113
pull
Entries 82
Mean 1289
Std Dev 0

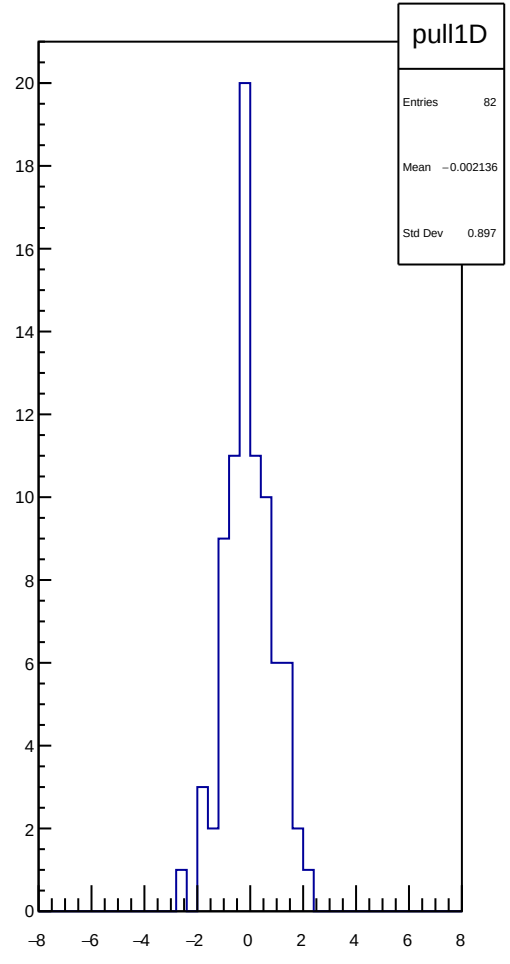

pull1D
Entries 82
Mean 0.004522
Std Dev 1.21

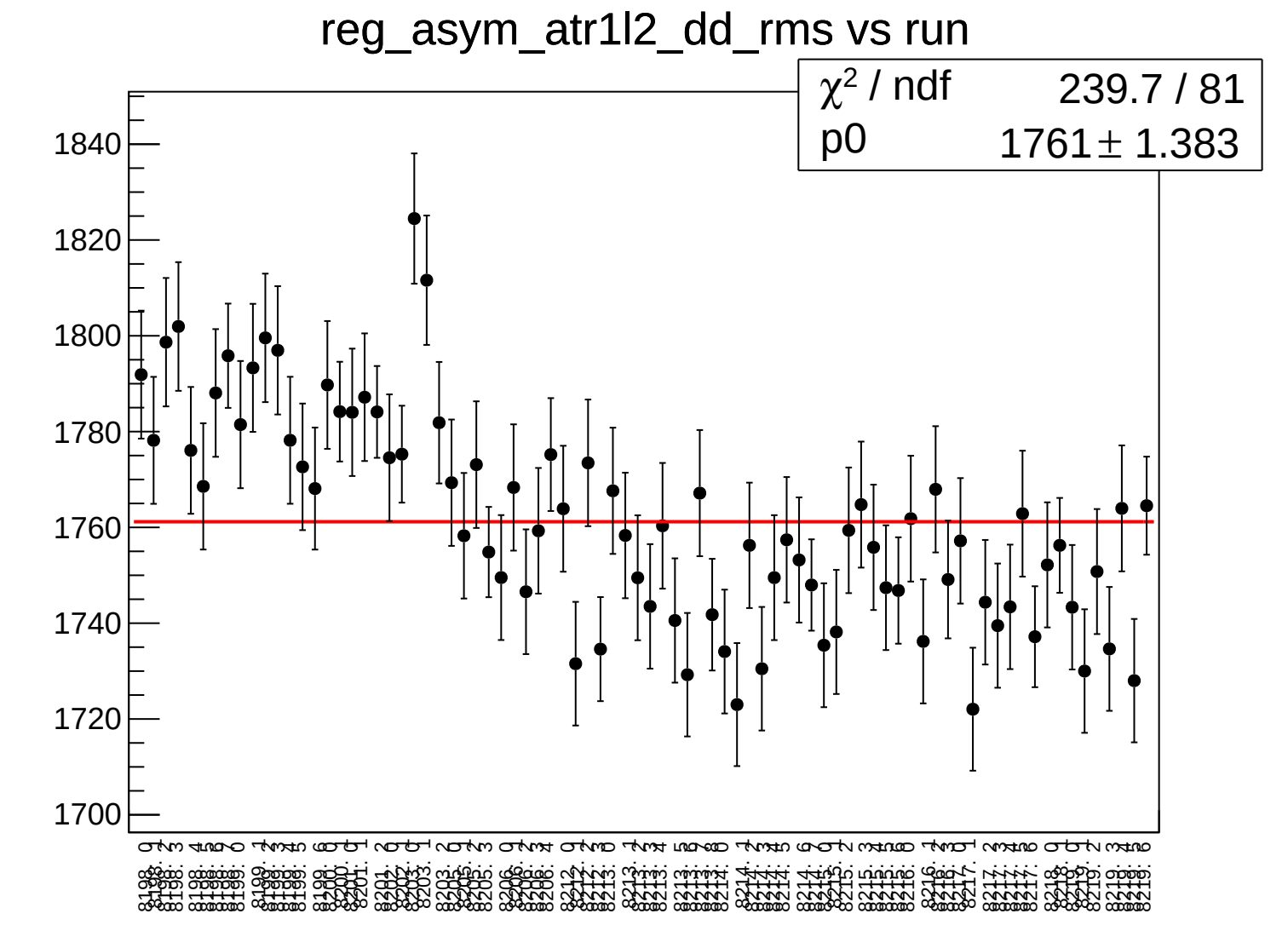

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.728e+05 / 81
p0 179.8 ± 0.1494
400
350
300
250
200
150
100

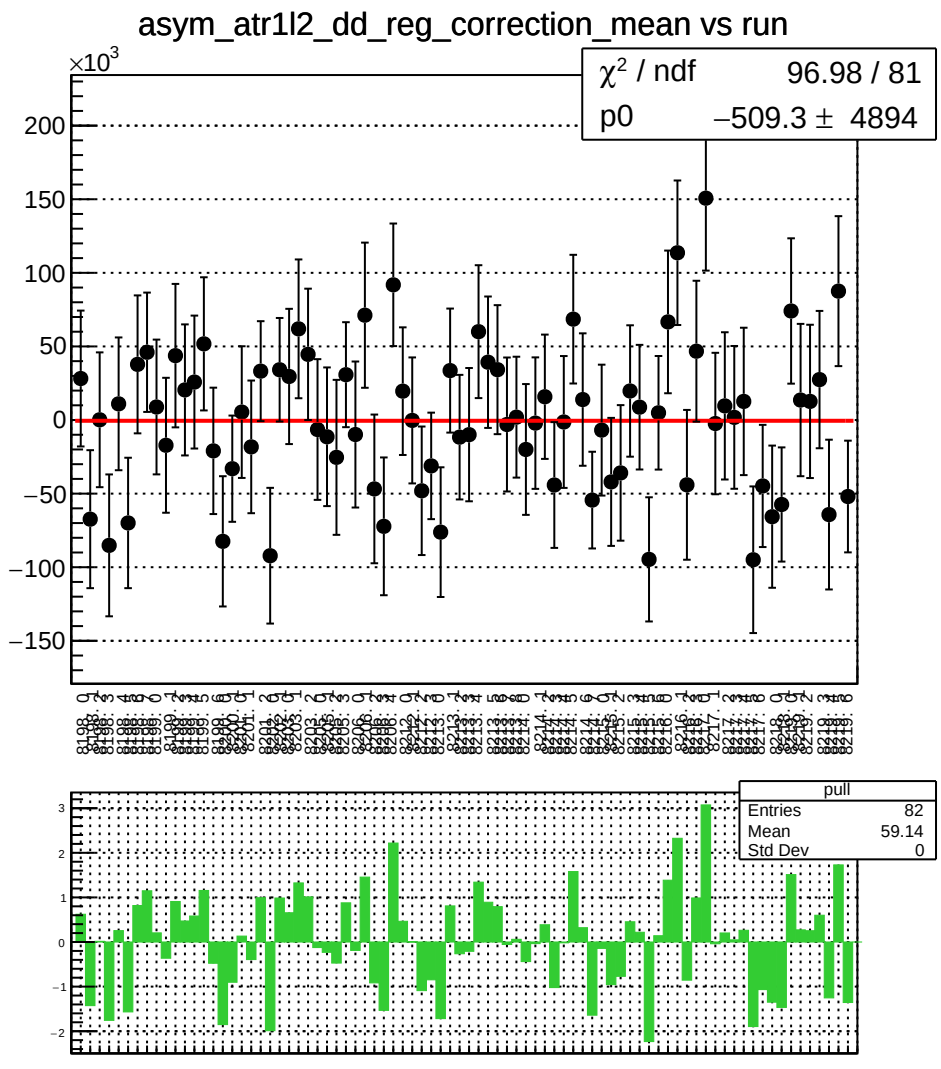

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.64 / 81
p0 2.978e−13 ± 3.55e−13
60
40
20
0
−20
−40
pull
Entries 82
Mean 80.79
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.05232
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

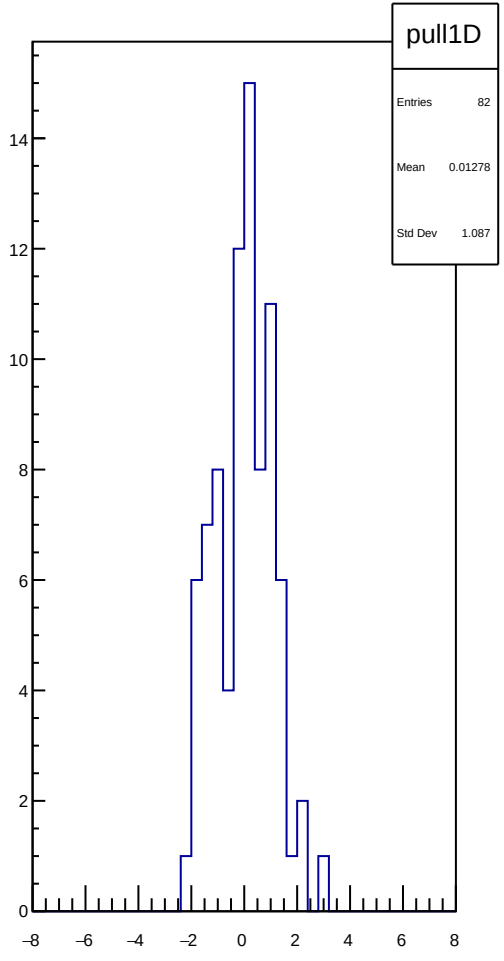

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.407e+05 / 81
p0 2.218e−10 ± 2.51e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

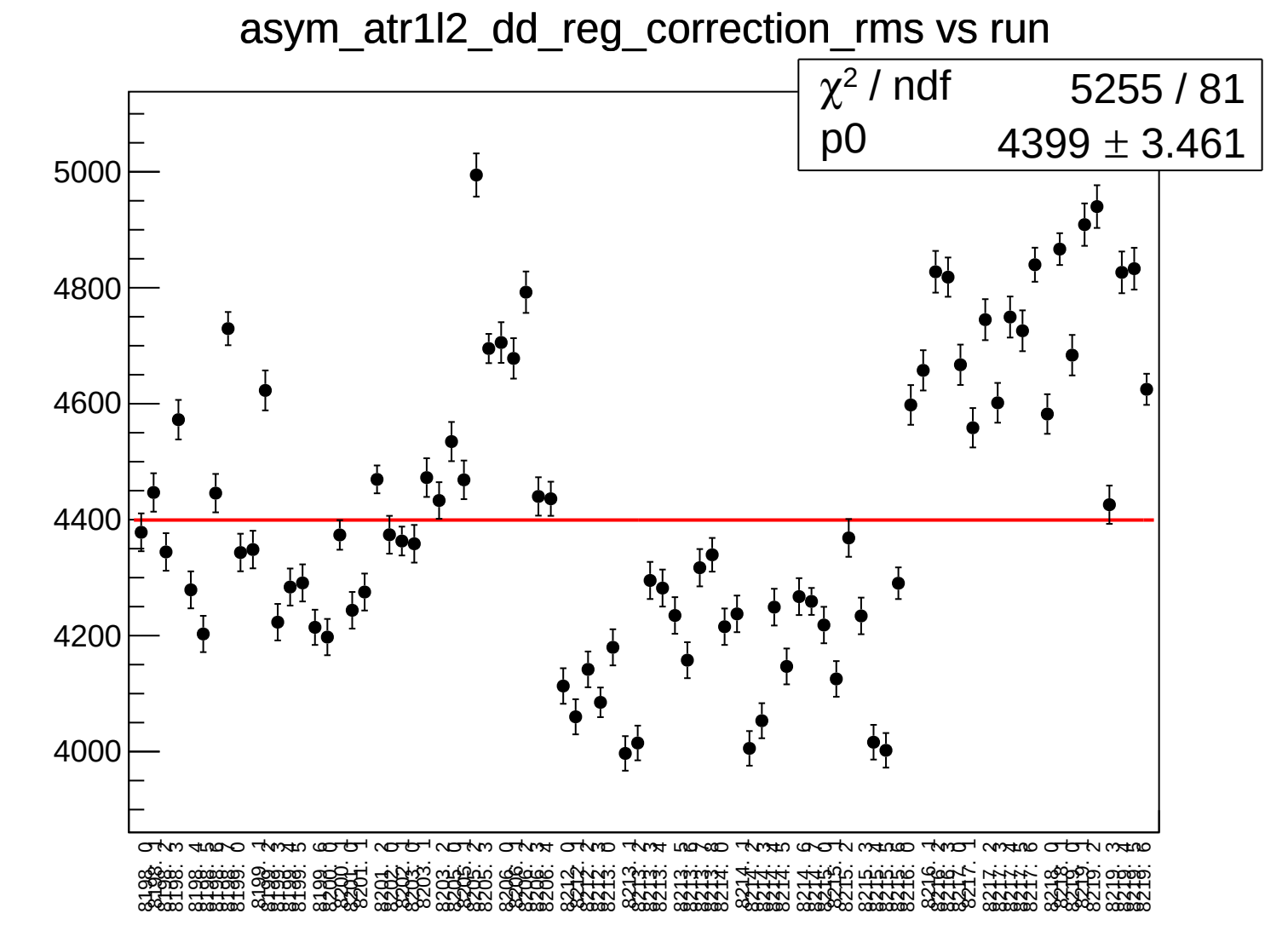

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 65.98 / 81
p0 −1455 ± 1956
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −467.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

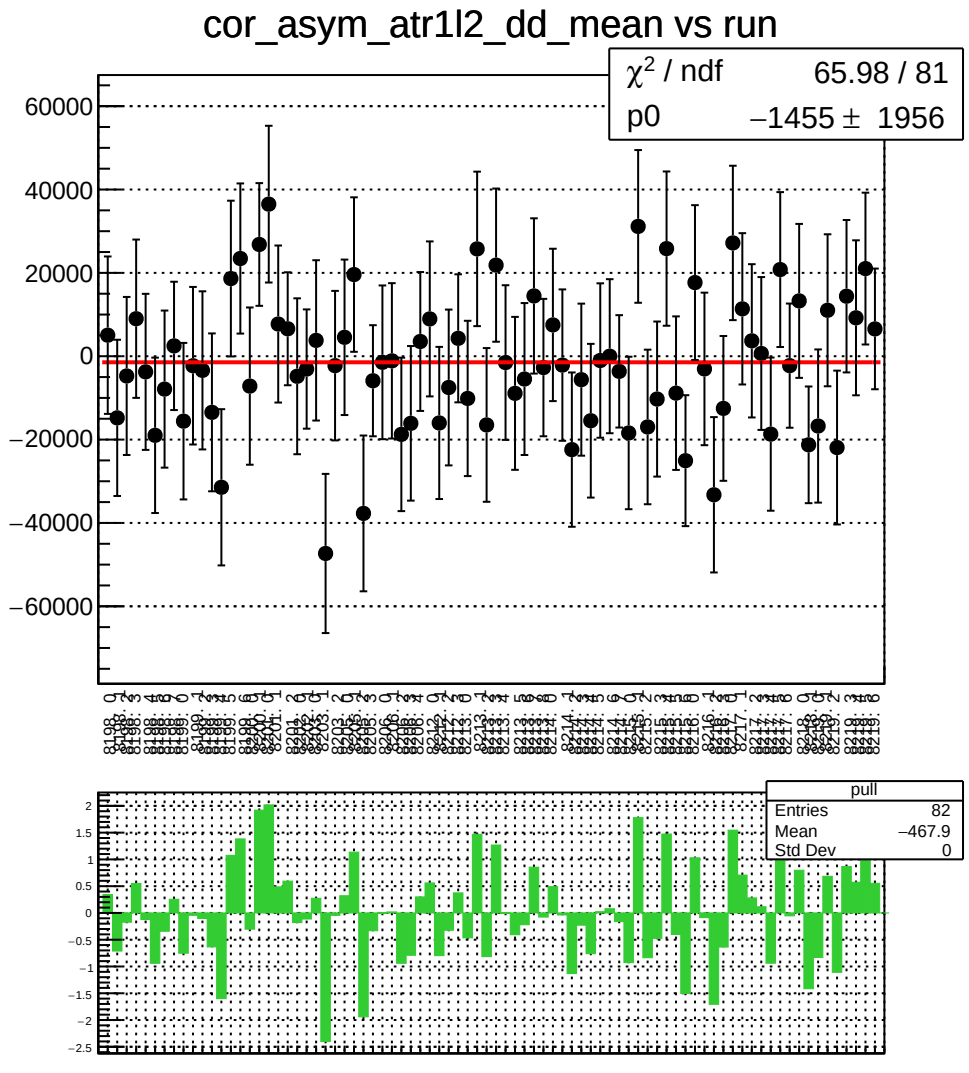

pull1D
Entries 82
Mean −0.002136
Std Dev 0.897
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

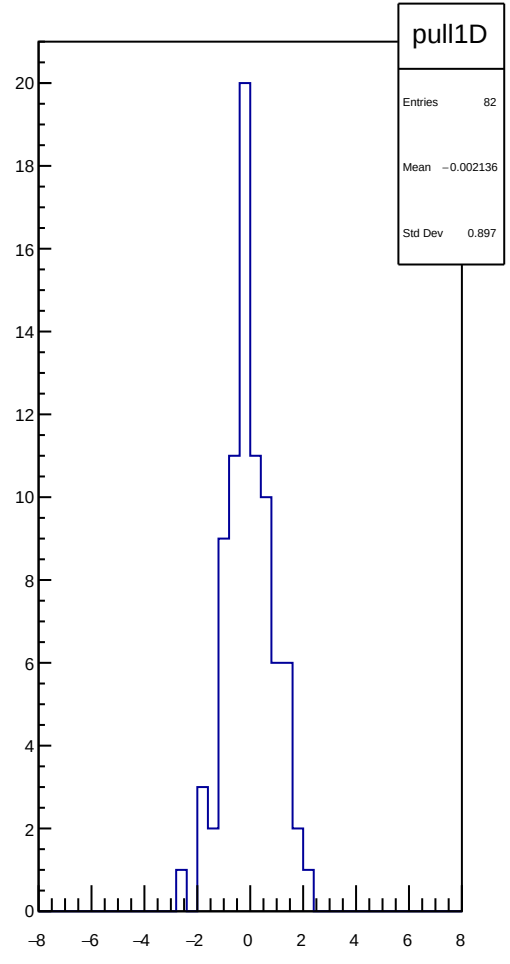

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 239.7 / 81
p0 1761 ± 1.383
1840
1820
1800
1780
1760
1740
1720
1700

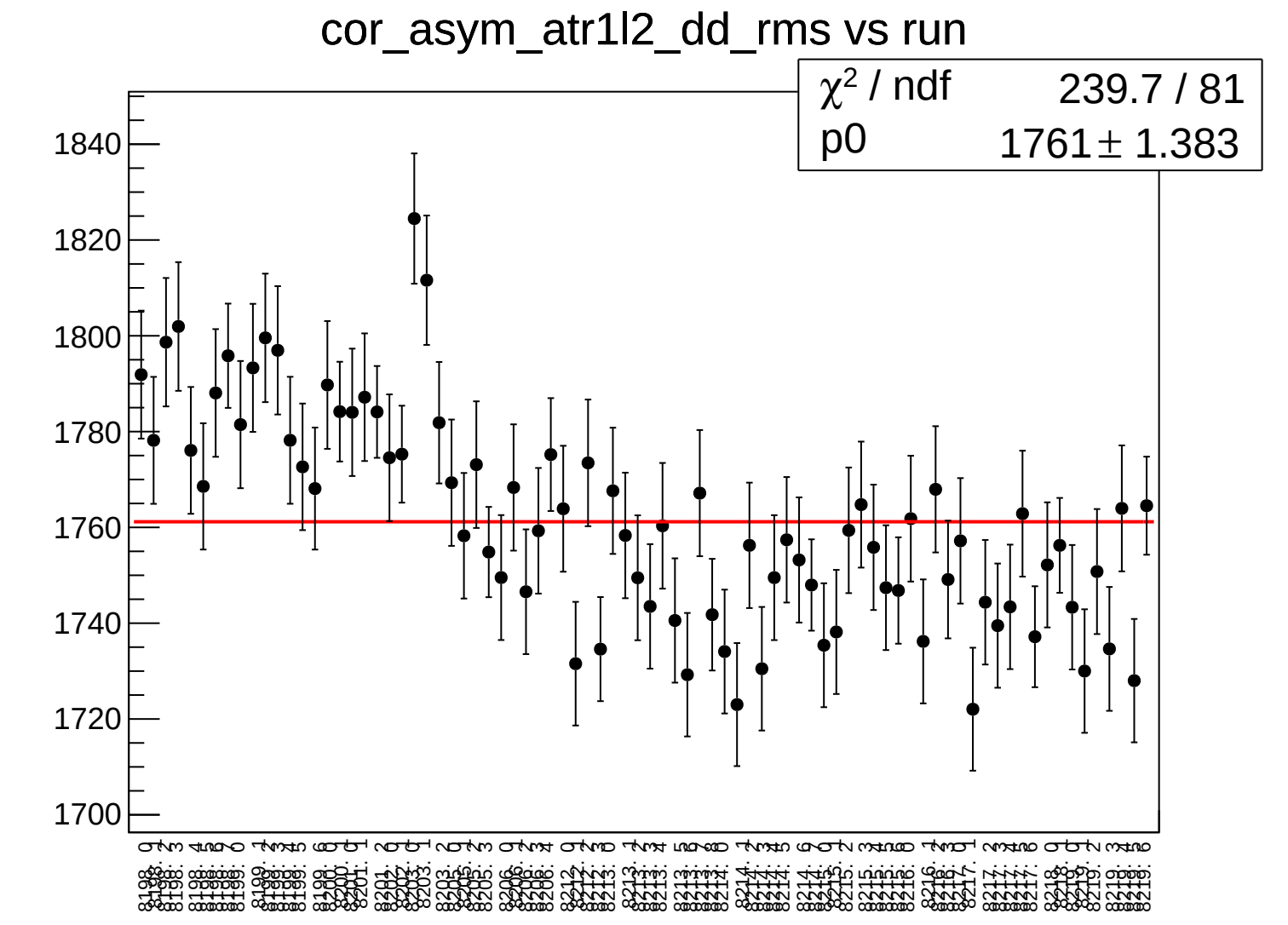

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.98 / 81
p0 −509.3 ± 4894
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 59.14
Std Dev 0
3
2
1
0
−1
−2

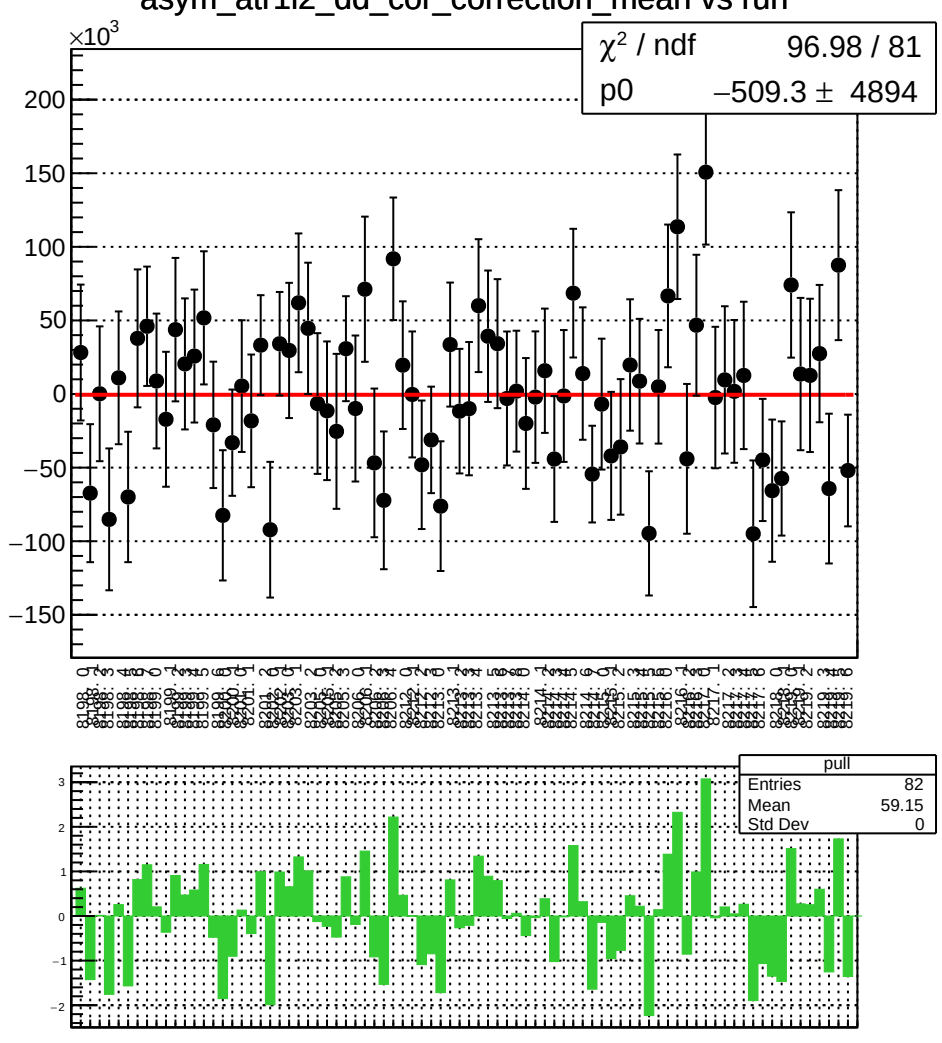

pull1D
Entries 82
Mean 0.01278
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

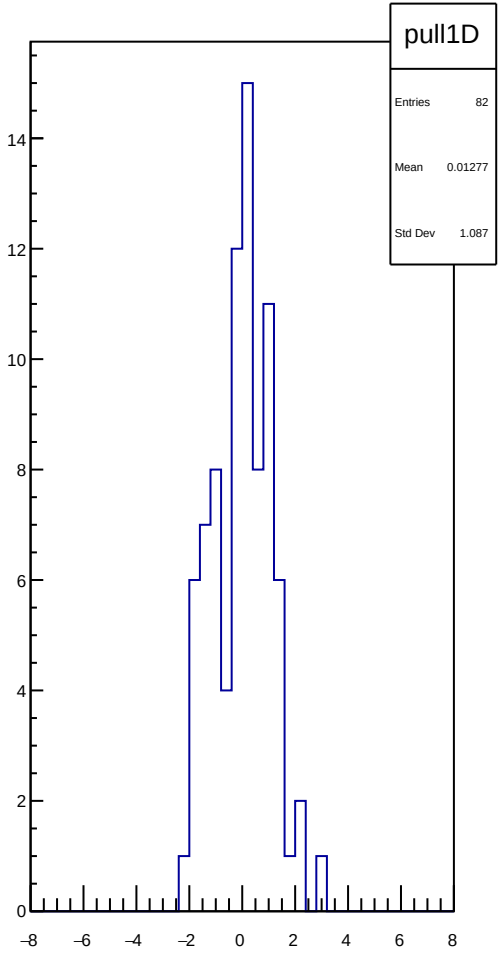

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 5255 / 81
p0 4399 ± 3.461
5000
4800
4600
4400
4200
4000

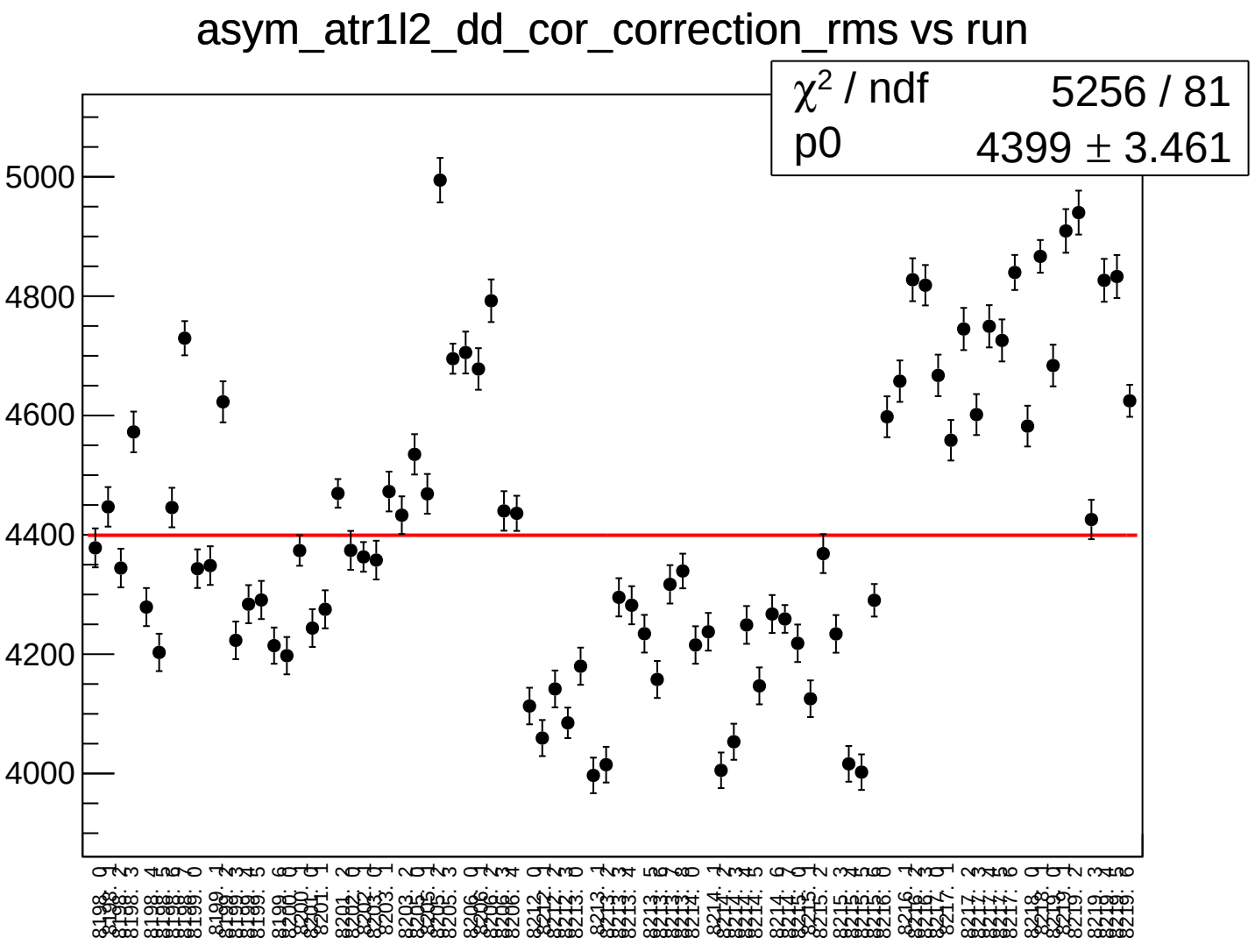

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 65.98 / 81
p0 −1455 ± 1956
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −467.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

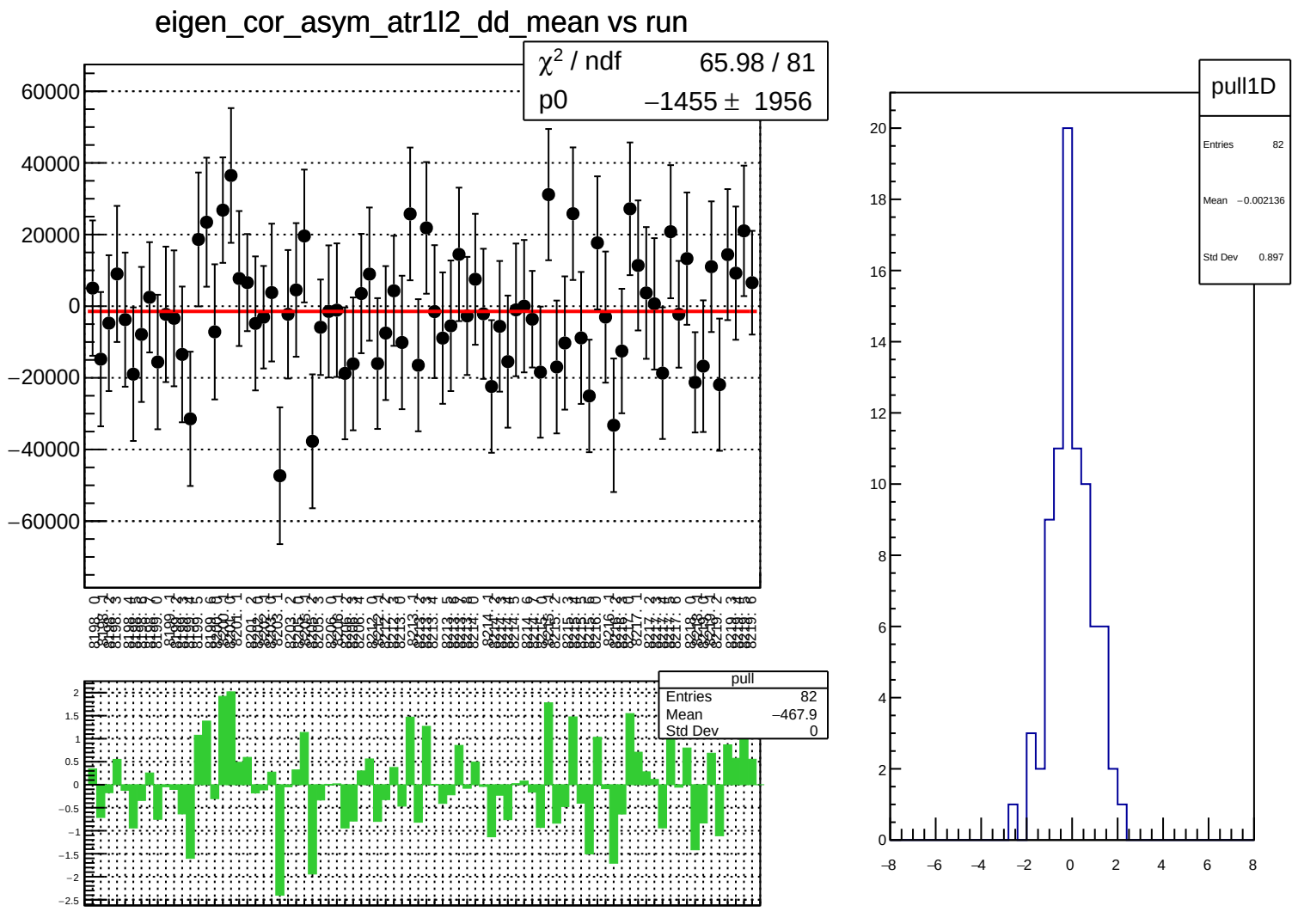

pull1D
Entries 82
Mean −0.002136
Std Dev 0.897
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

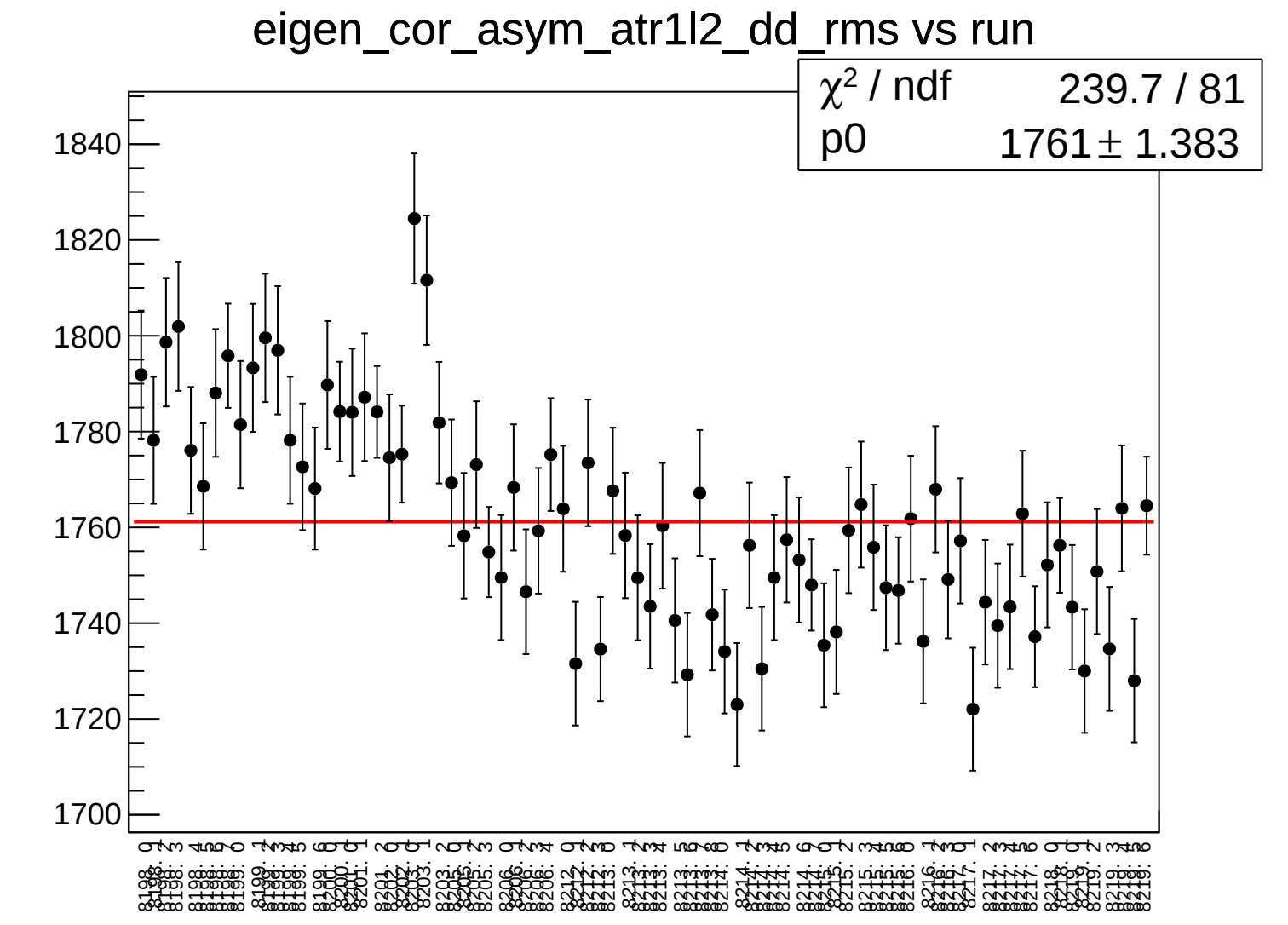

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 239.7 / 81
p0 1761 ± 1.383
1840
1820
1800
1780
1760
1740
1720
1700

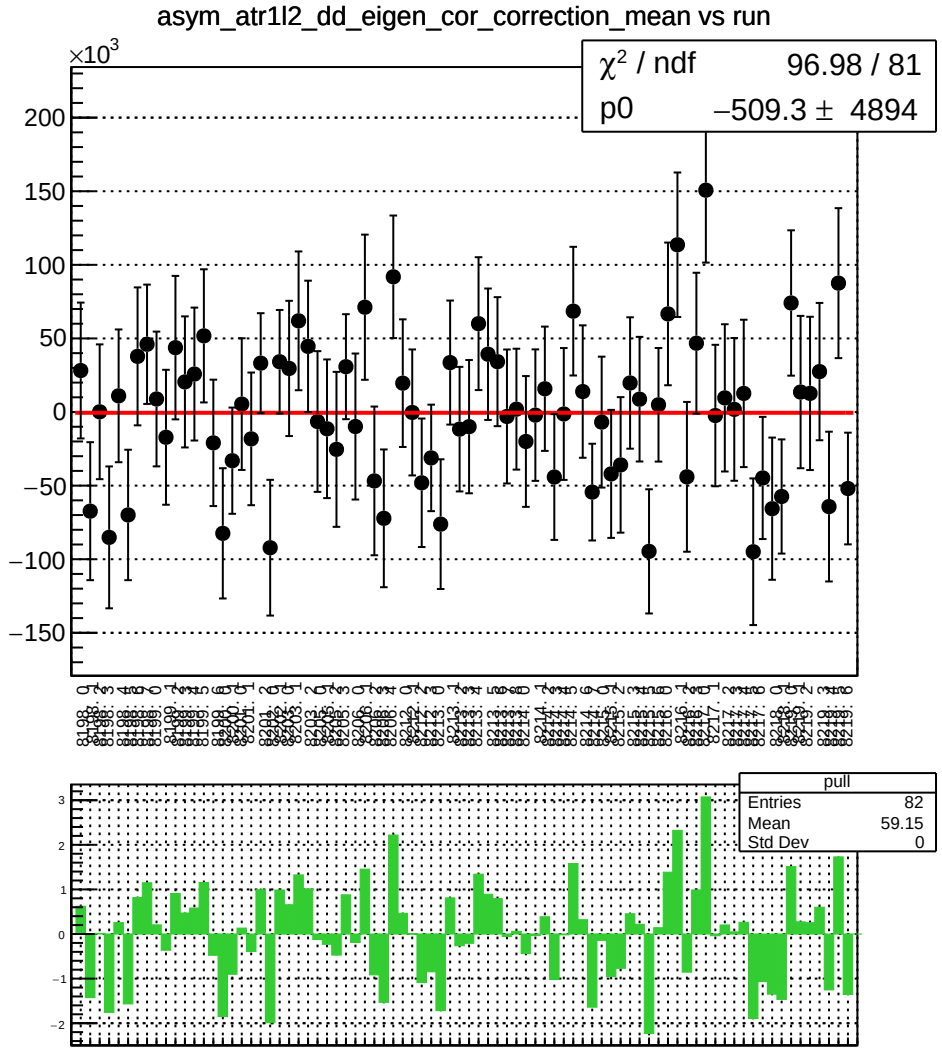

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.98 / 81
p0 −509.3 ± 4894
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 59.15
Std Dev 0
3
2
1
0
−1
−2

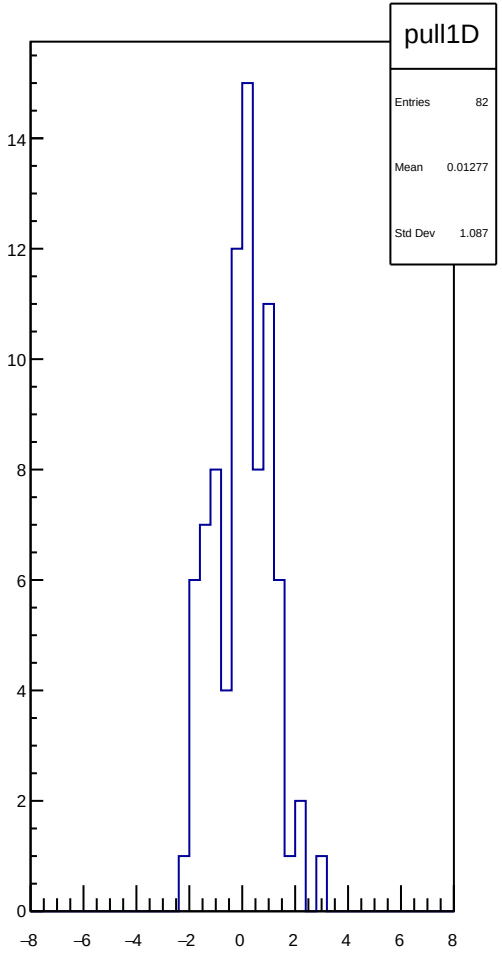

pull1D
Entries 82
Mean 0.01277
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

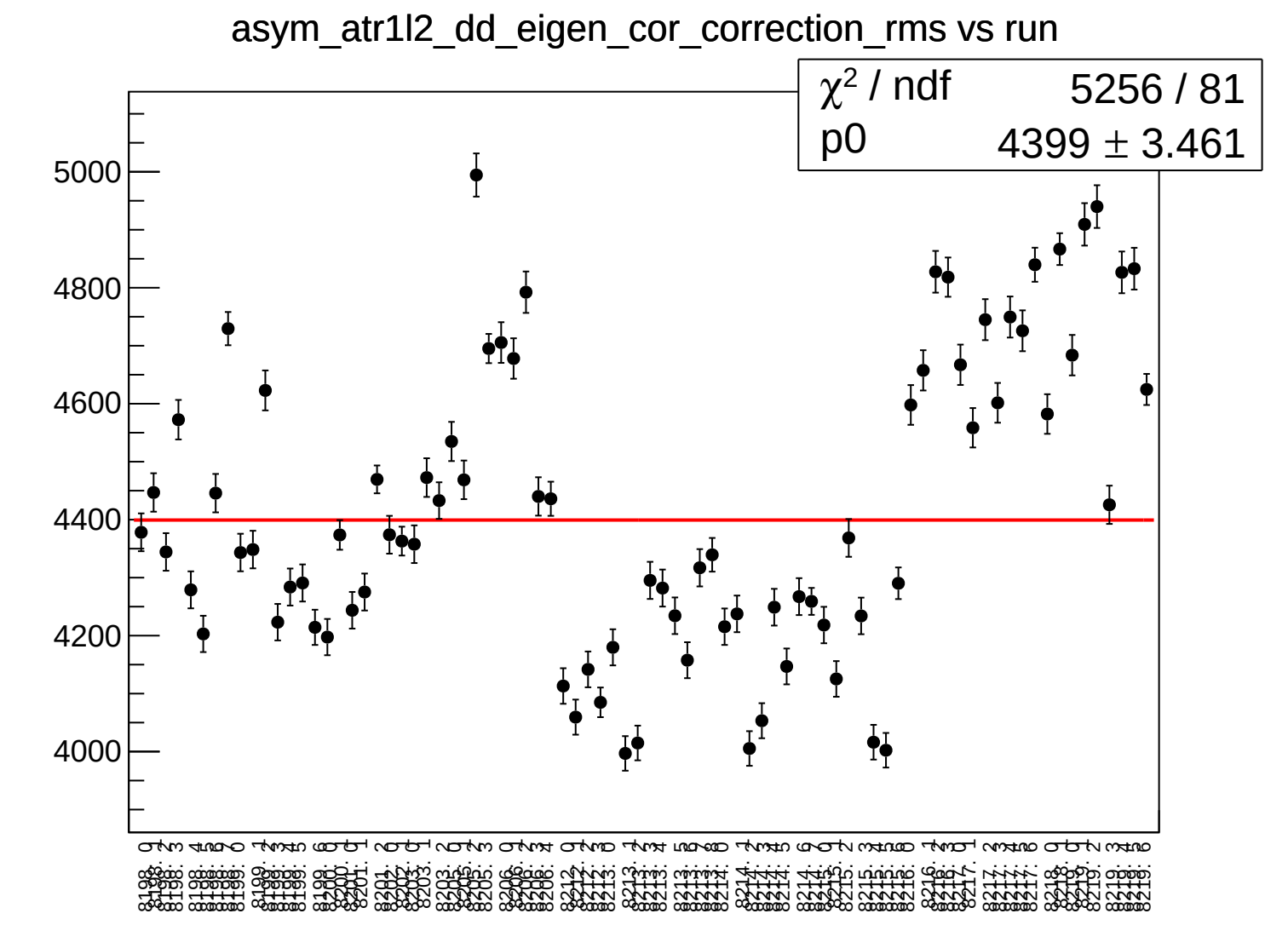

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 5256 / 81
p0 4399 ± 3.461
5000
4800
4600
4400
4200
4000

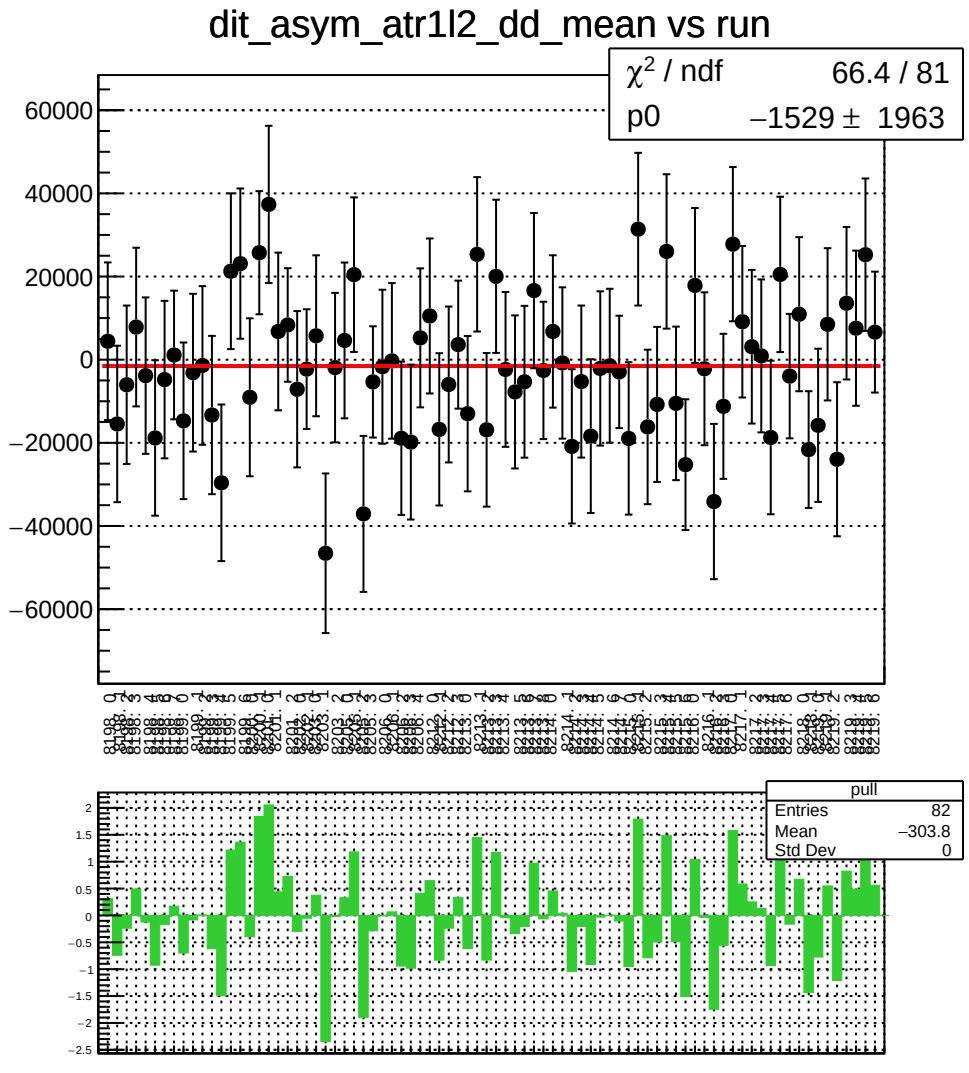

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 65.98 / 81
p0 −1455 ± 1956
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −467.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean −0.002136
Std Dev 0.897
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

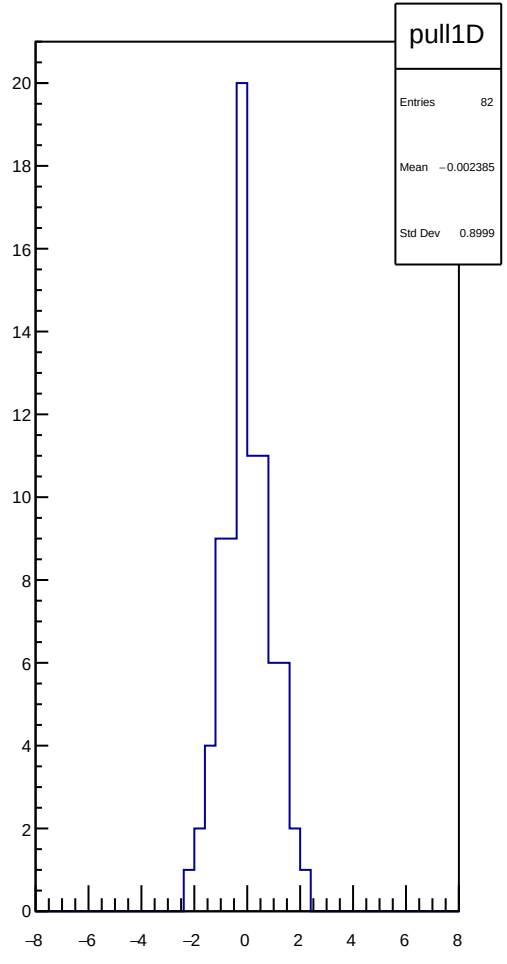

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 239.7 / 81
p0 1761 ± 1.383
1840
1820
1800
1780
1760
1740
1720
1700

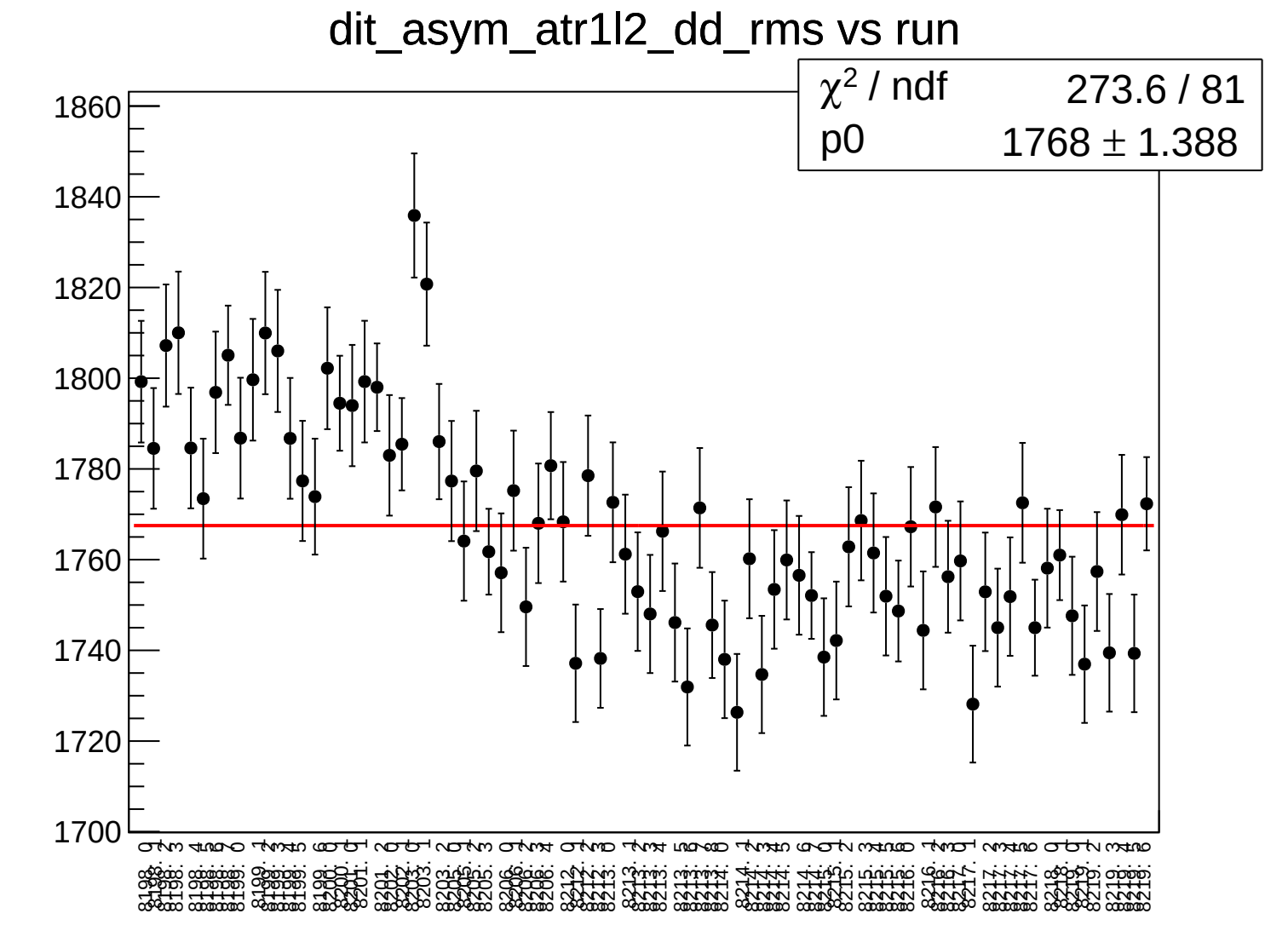

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.98 / 81
p0 −509.3 ± 4894
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 59.15
Std Dev 0
3
2
1
0
−1
−2

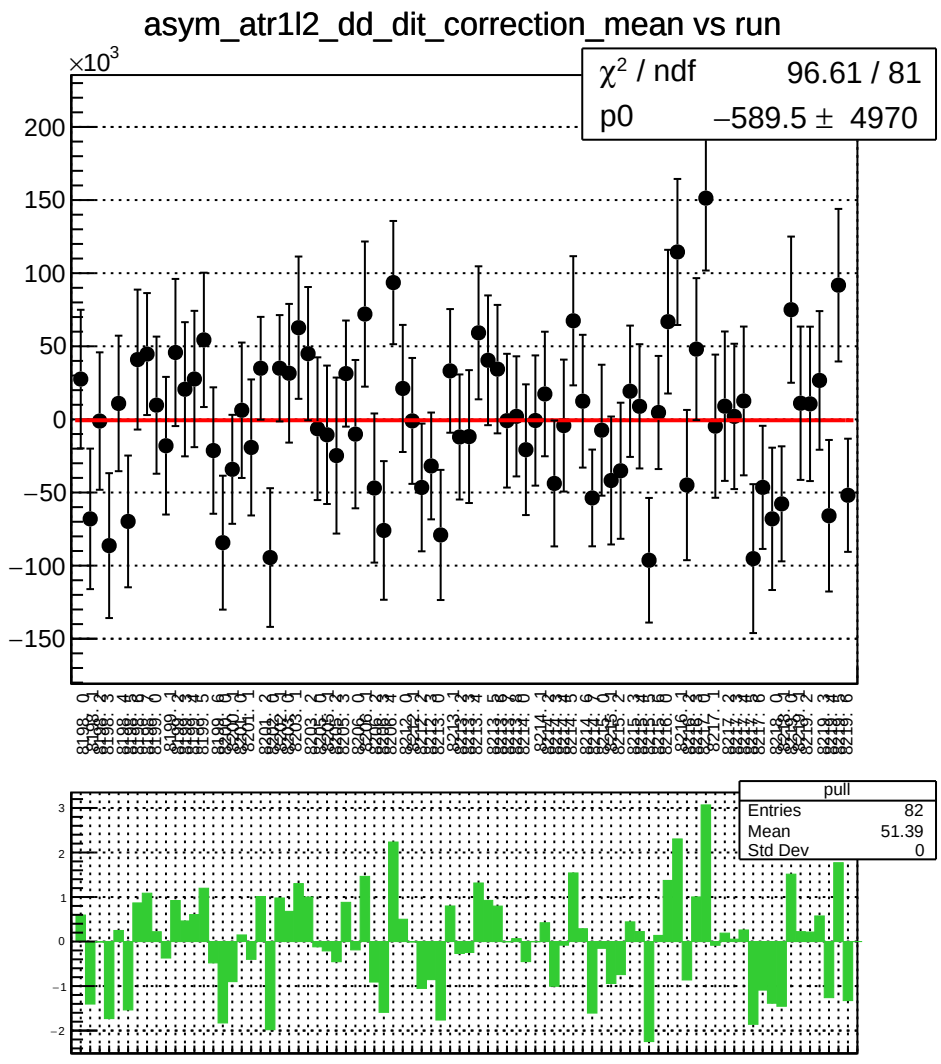

pull1D
Entries 82
Mean 0.01277
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

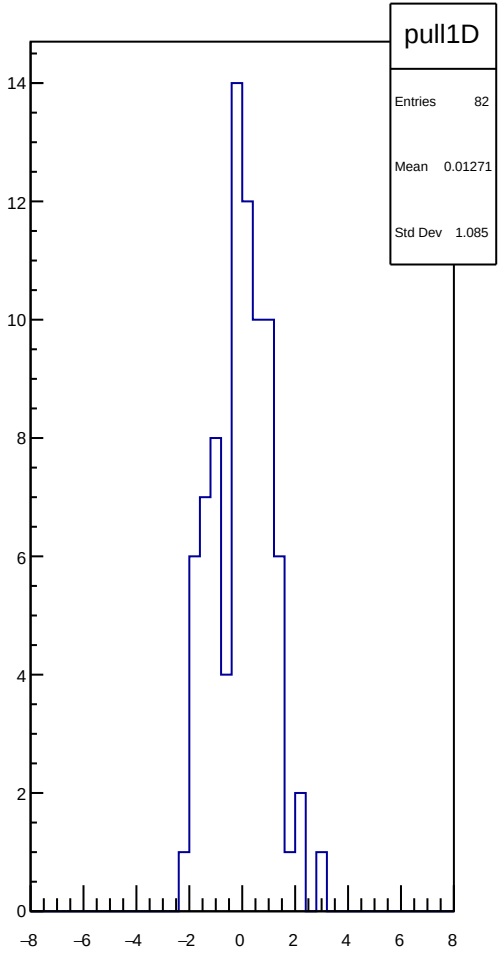

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5256 / 81
p0 4399 ± 3.461
5000
4800
4600
4400
4200
4000

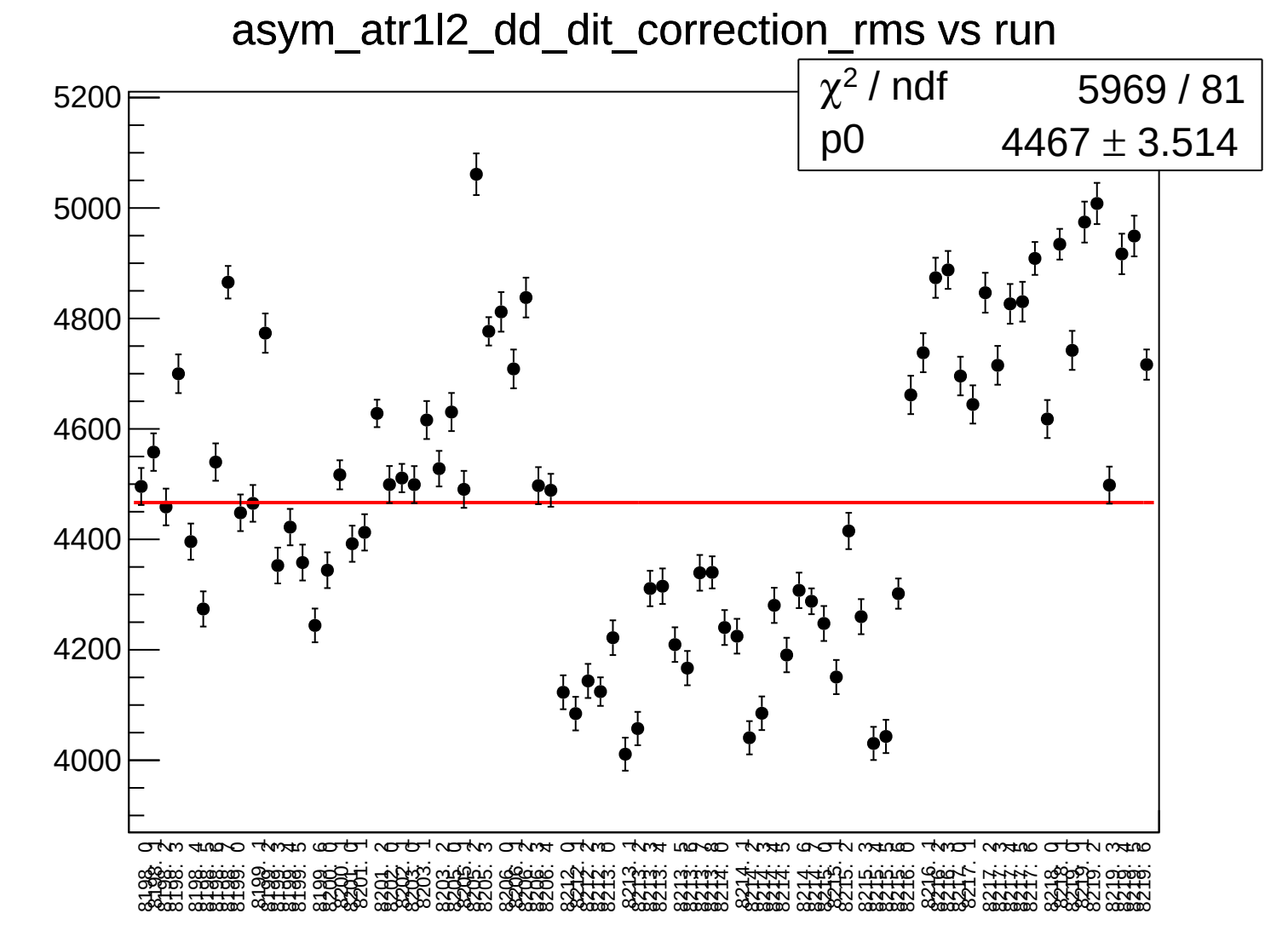

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 66.4 / 81
p0 −1529 ± 1963
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −303.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

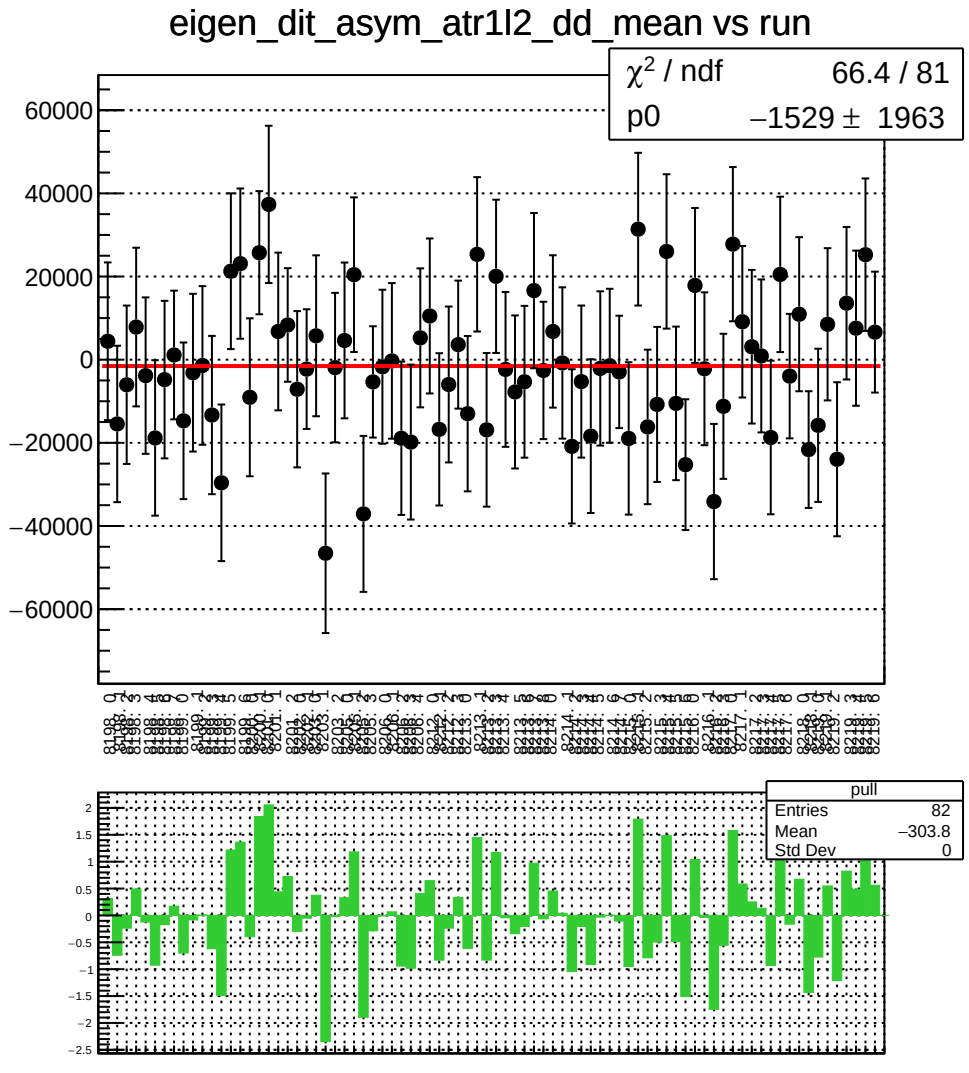

pull1D
Entries 82
Mean −0.002385
Std Dev 0.8999
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

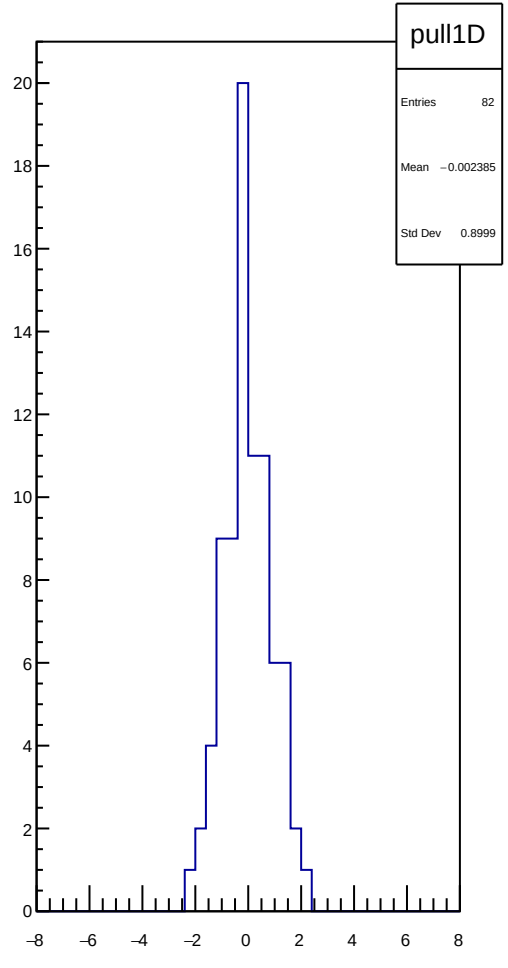

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 273.6 / 81
p0 1768 ± 1.388
1860
1840
1820
1800
1780
1760
1740
1720
1700

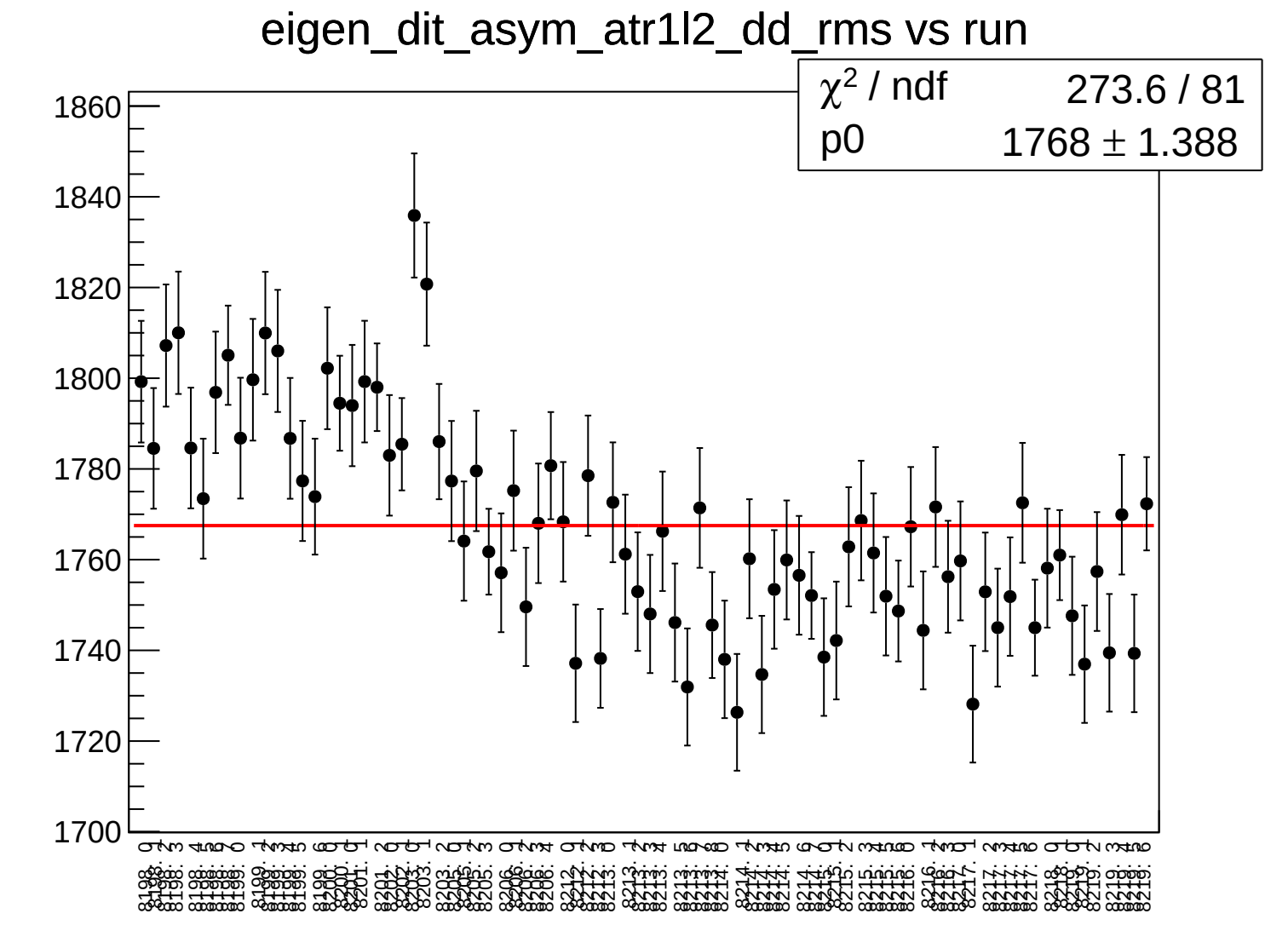

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.61 / 81
p0 −589.5 ± 4970
pull
Entries 82
Mean 51.39
Std Dev 0

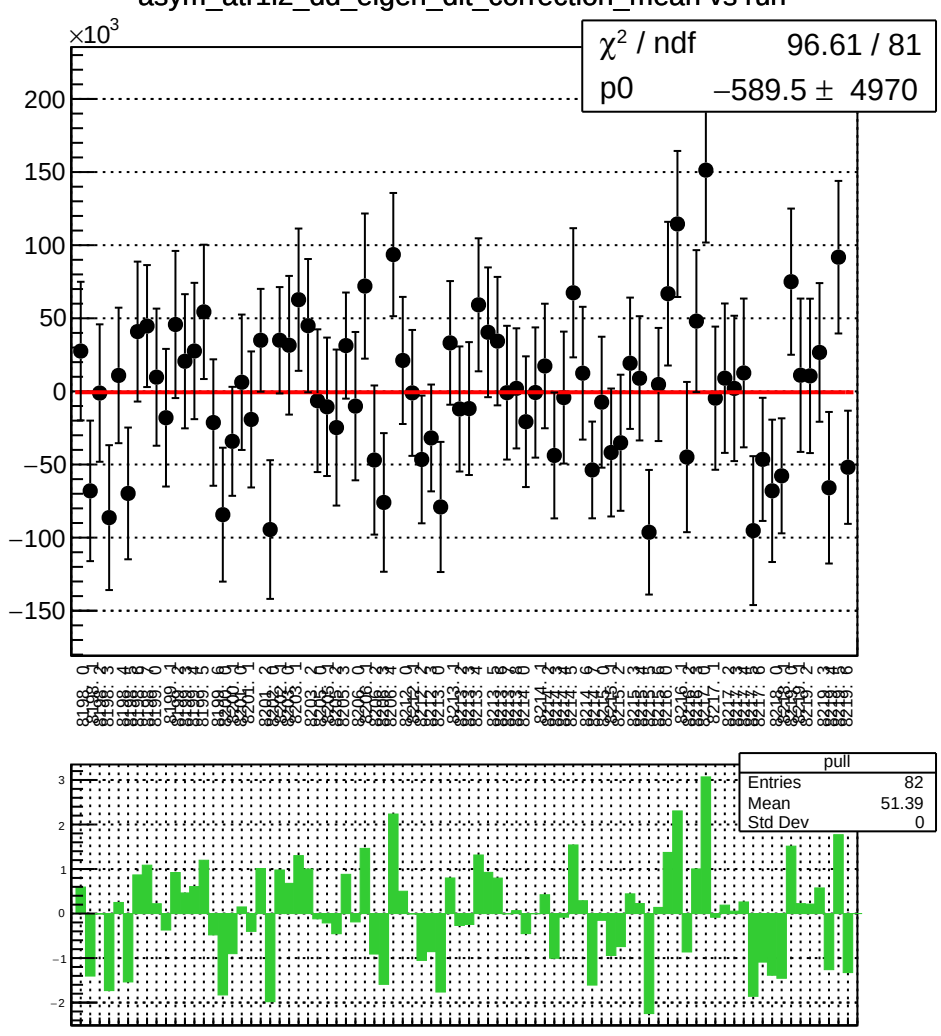

pull1D
Entries 82
Mean 0.01271
Std Dev 1.085

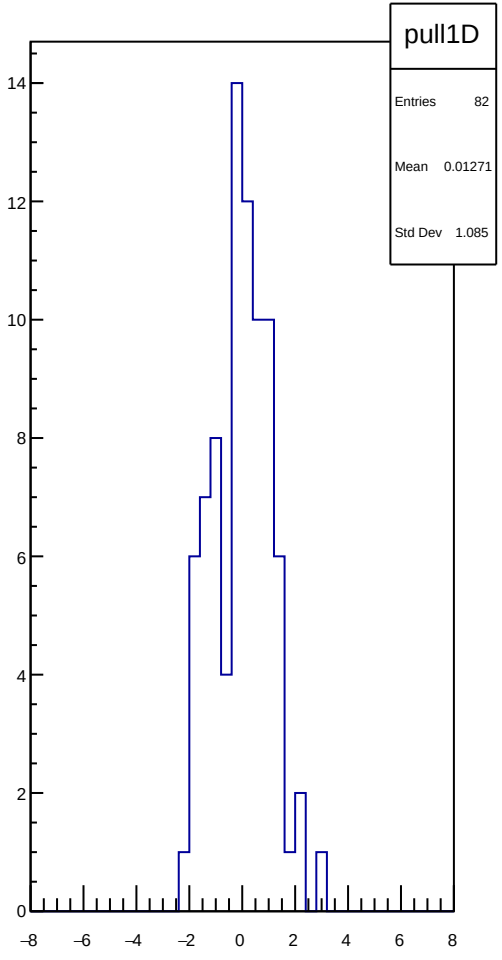

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 5969 / 81
p0 4467 ± 3.514
5200
5000
4800
4600
4400
4200
4000

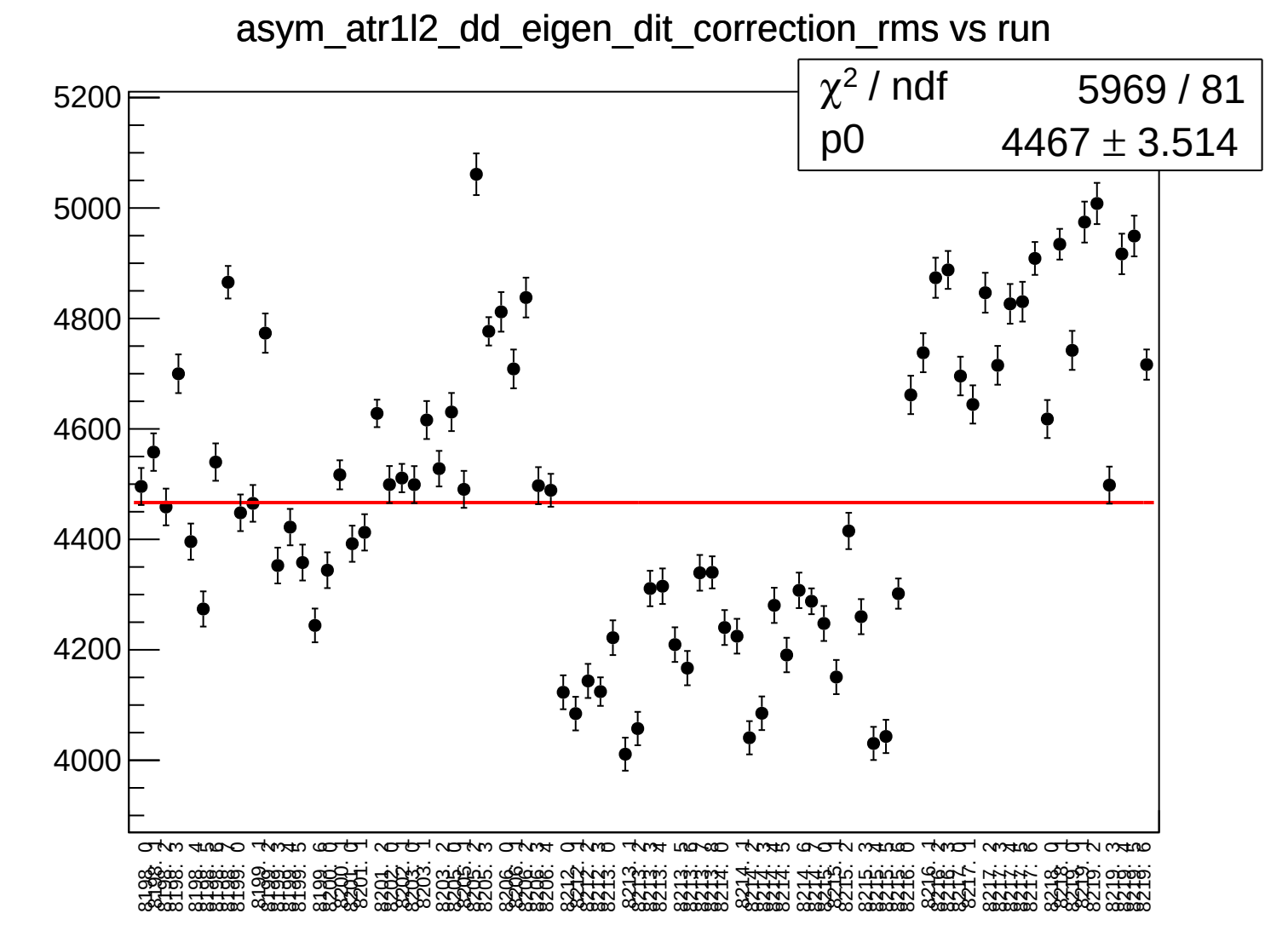

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 66.4 / 81
p0 −1529 ± 1963
pull
Entries 82
Mean −303.8
Std Dev 0

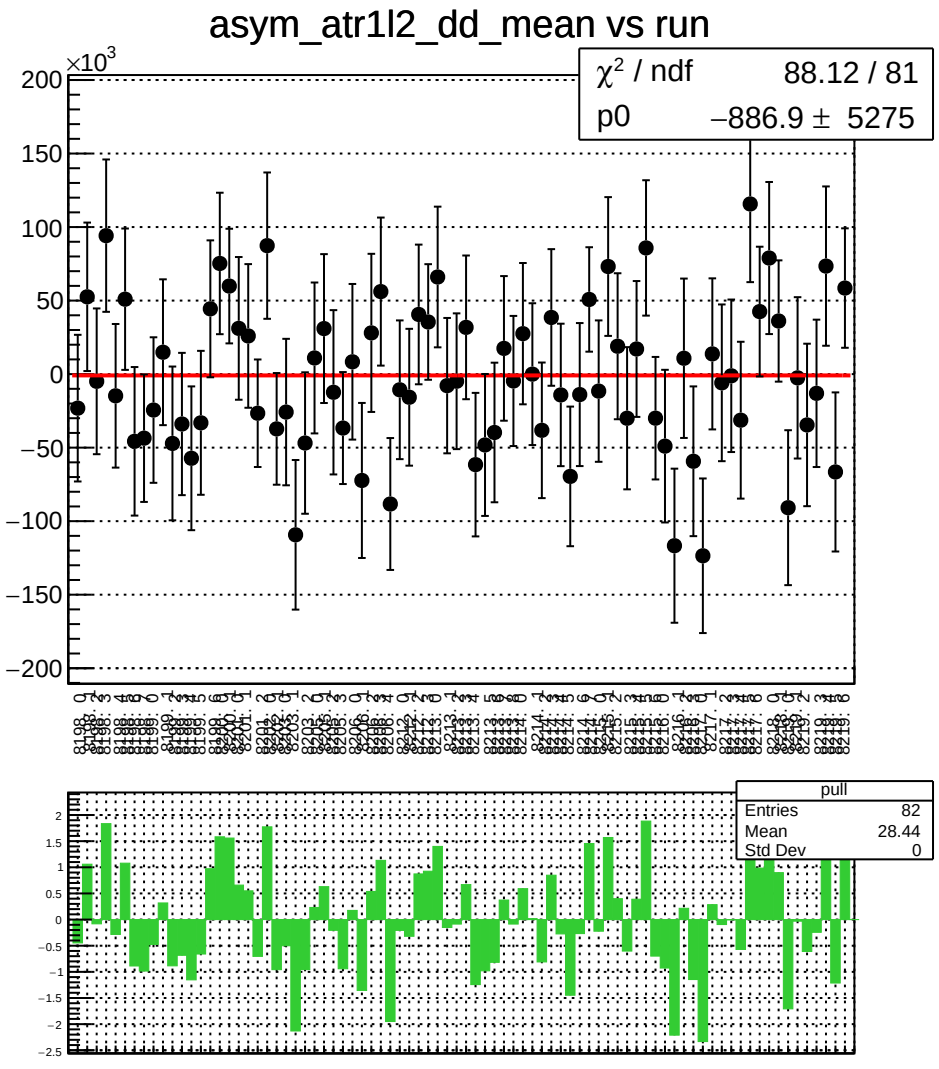

pull1D
Entries 82
Mean −0.002385
Std Dev 0.8999

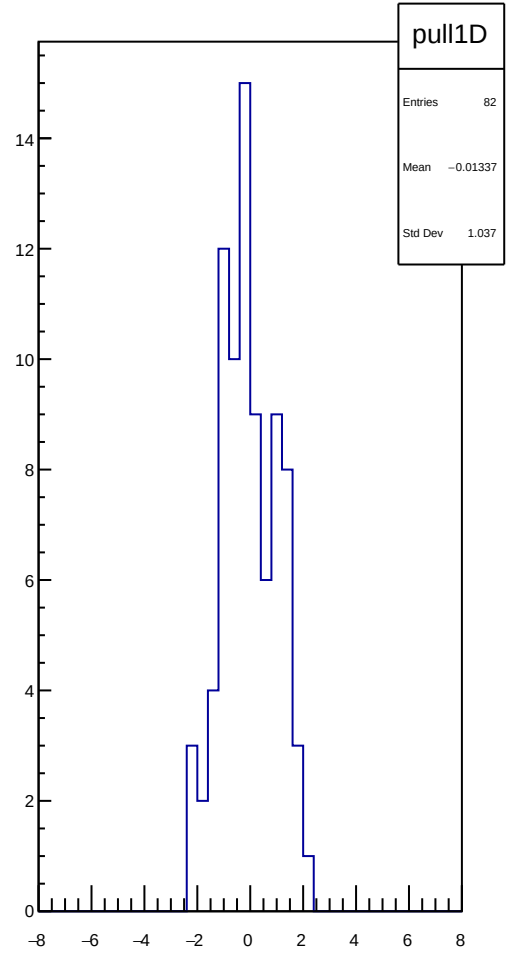

eigen_dit_asym_atr1l2_dd_rms vs run
$\chi^2$ / ndf 273.6 / 81
p0 1768 ± 1.388
1860
1840
1820
1800
1780
1760
1740
1720
1700

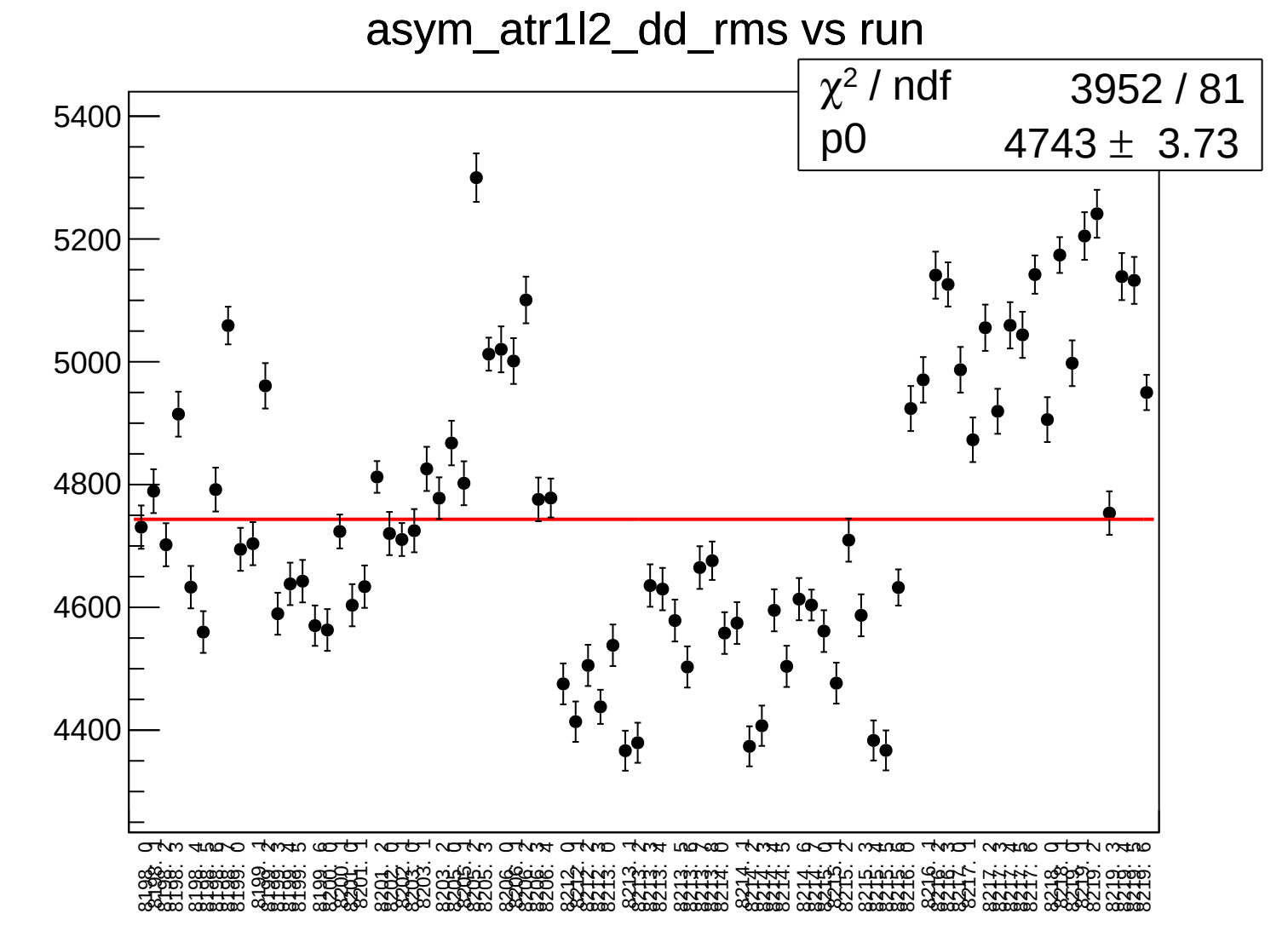

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.61 / 81
p0 −589.5 ± 4970
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 51.39
Std Dev 0
3
2
1
0
−1
−2

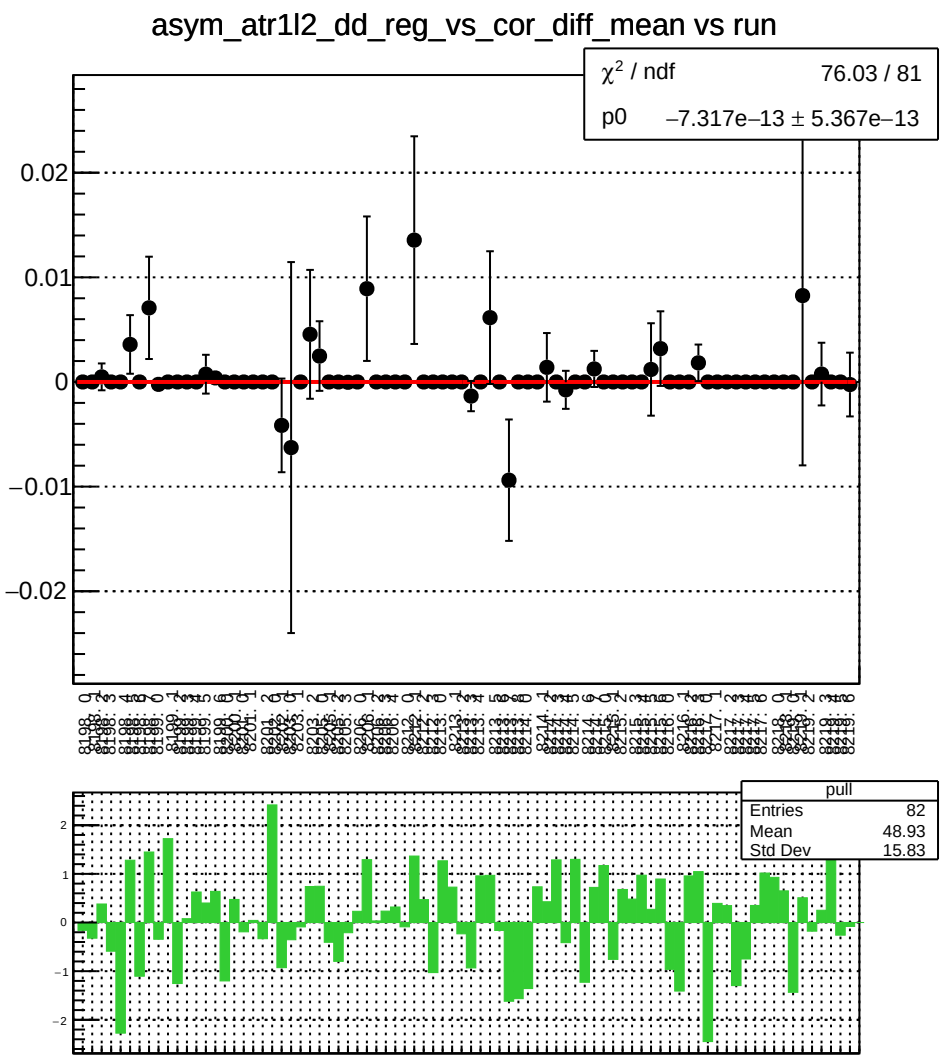

pull1D
Entries 82
Mean 0.01271
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

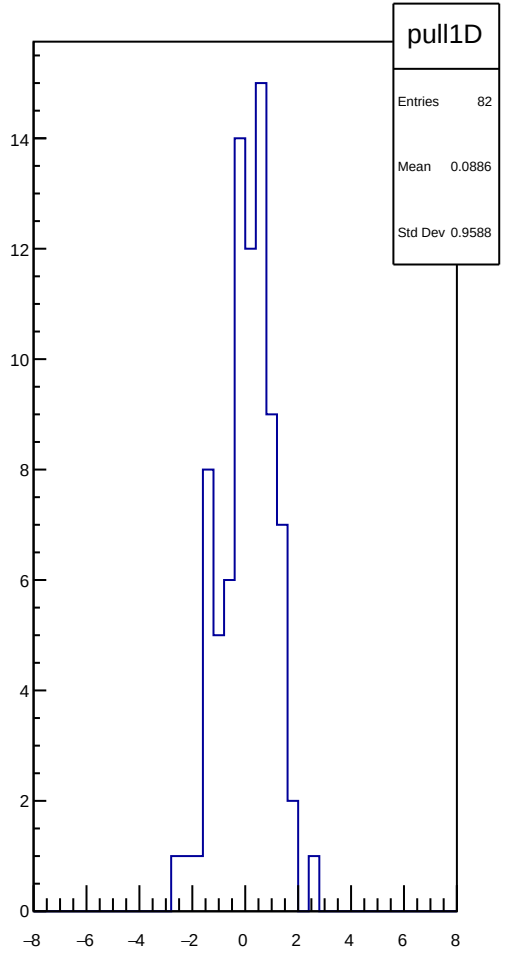

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5969 / 81
p0 4467 ± 3.514
5200
5000
4800
4600
4400
4200
4000

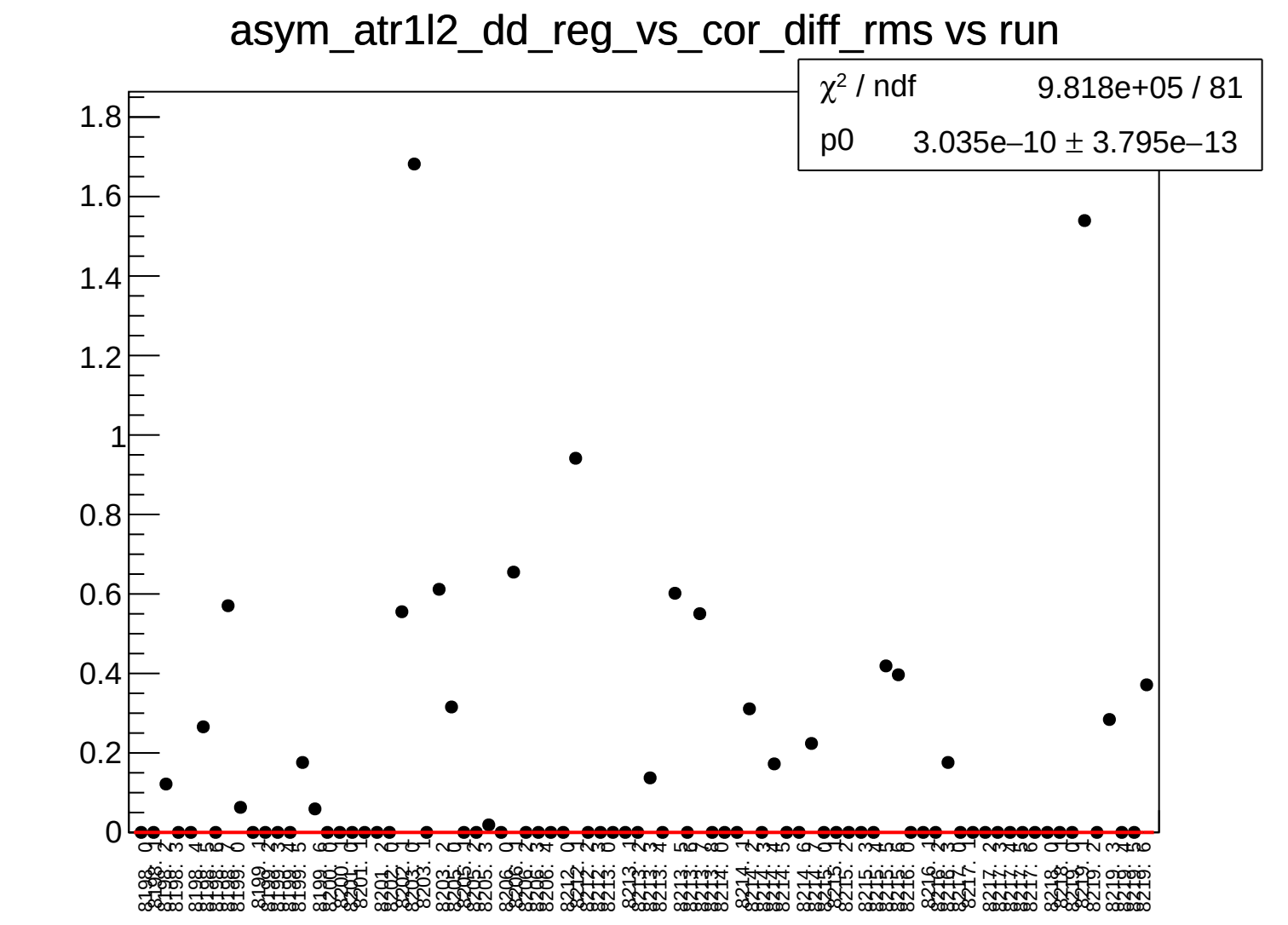

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 88.12 / 81
p0 −886.9 ± 5275
pull
Entries 82
Mean 28.44
Std Dev 0

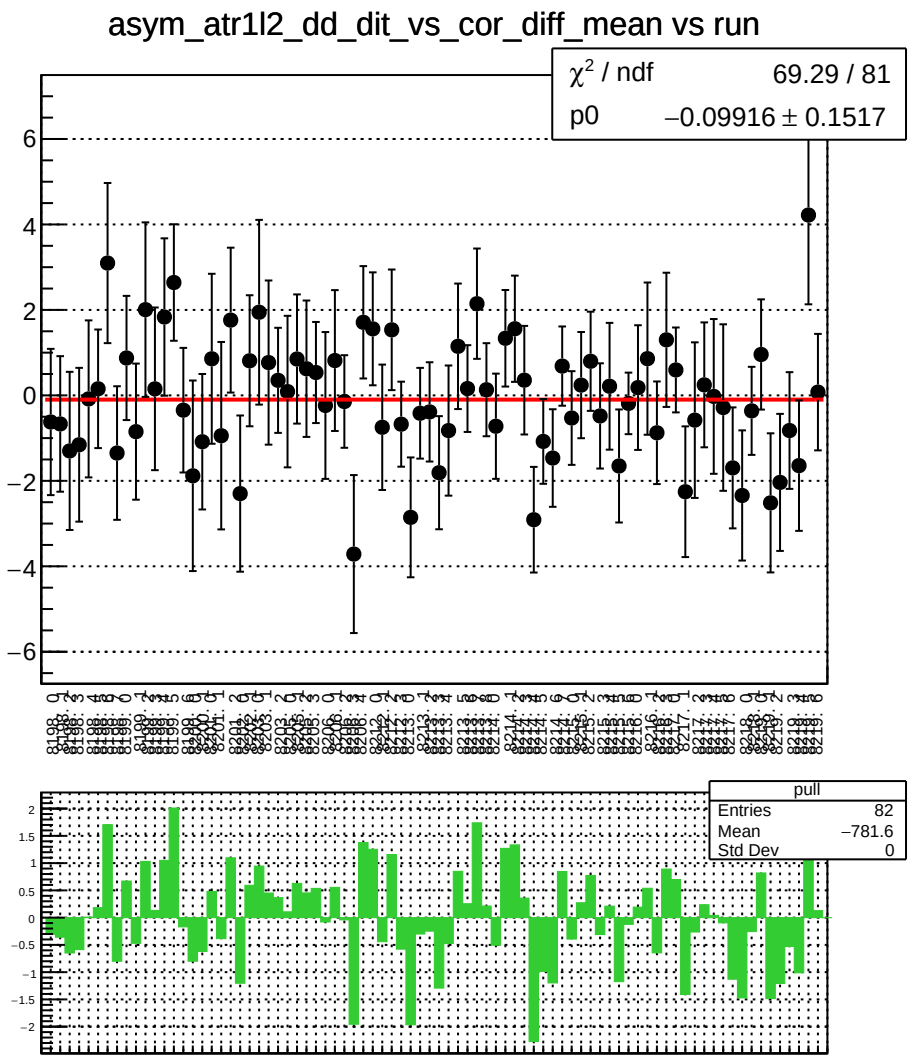

pull1D
Entries 82
Mean −0.01337
Std Dev 1.037

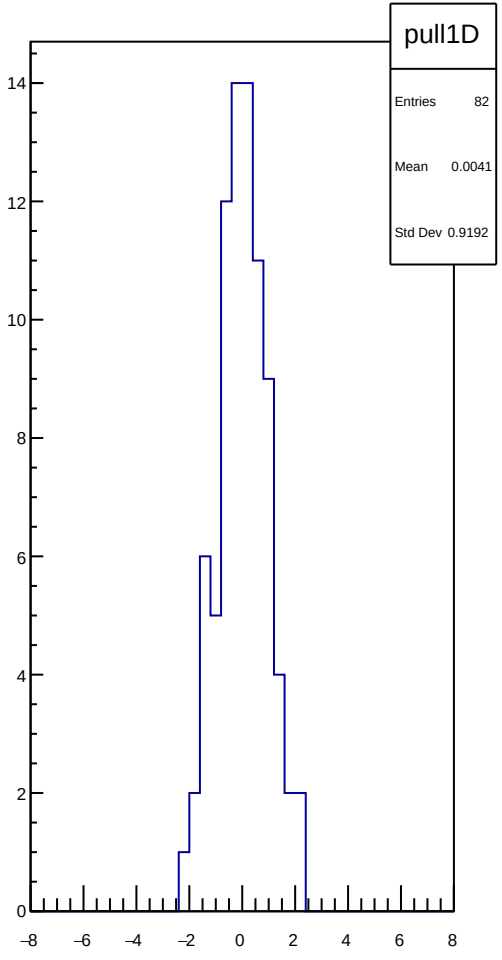

asym_atr1l2_dd_rms vs run
χ² / ndf 3952 / 81
p0 4743 ± 3.73
5400
5200
5000
4800
4600
4400

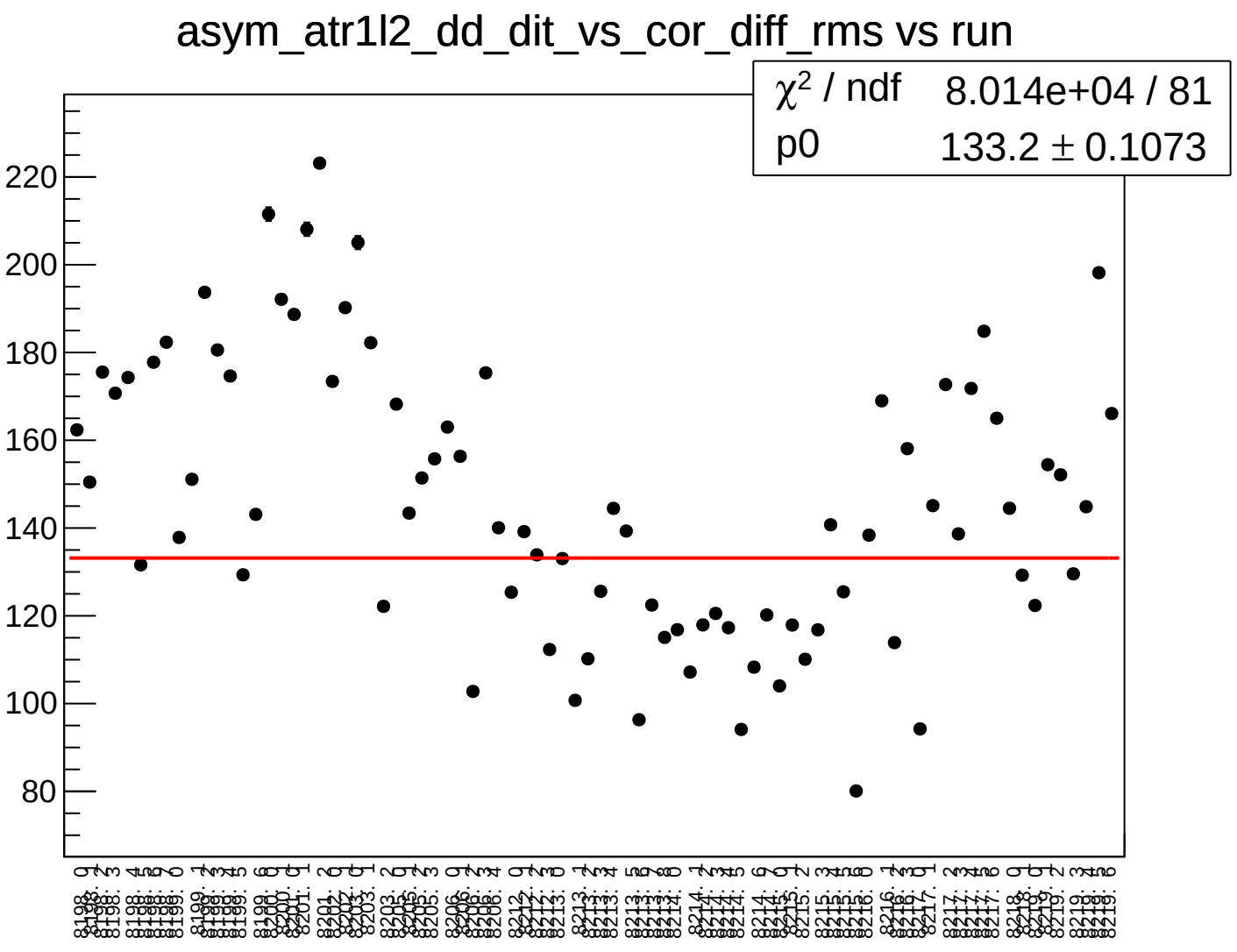

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.03 / 81
p0 −7.317e−13 ± 5.367e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean 48.93
Std Dev 15.83
2
1
0
−1
−2

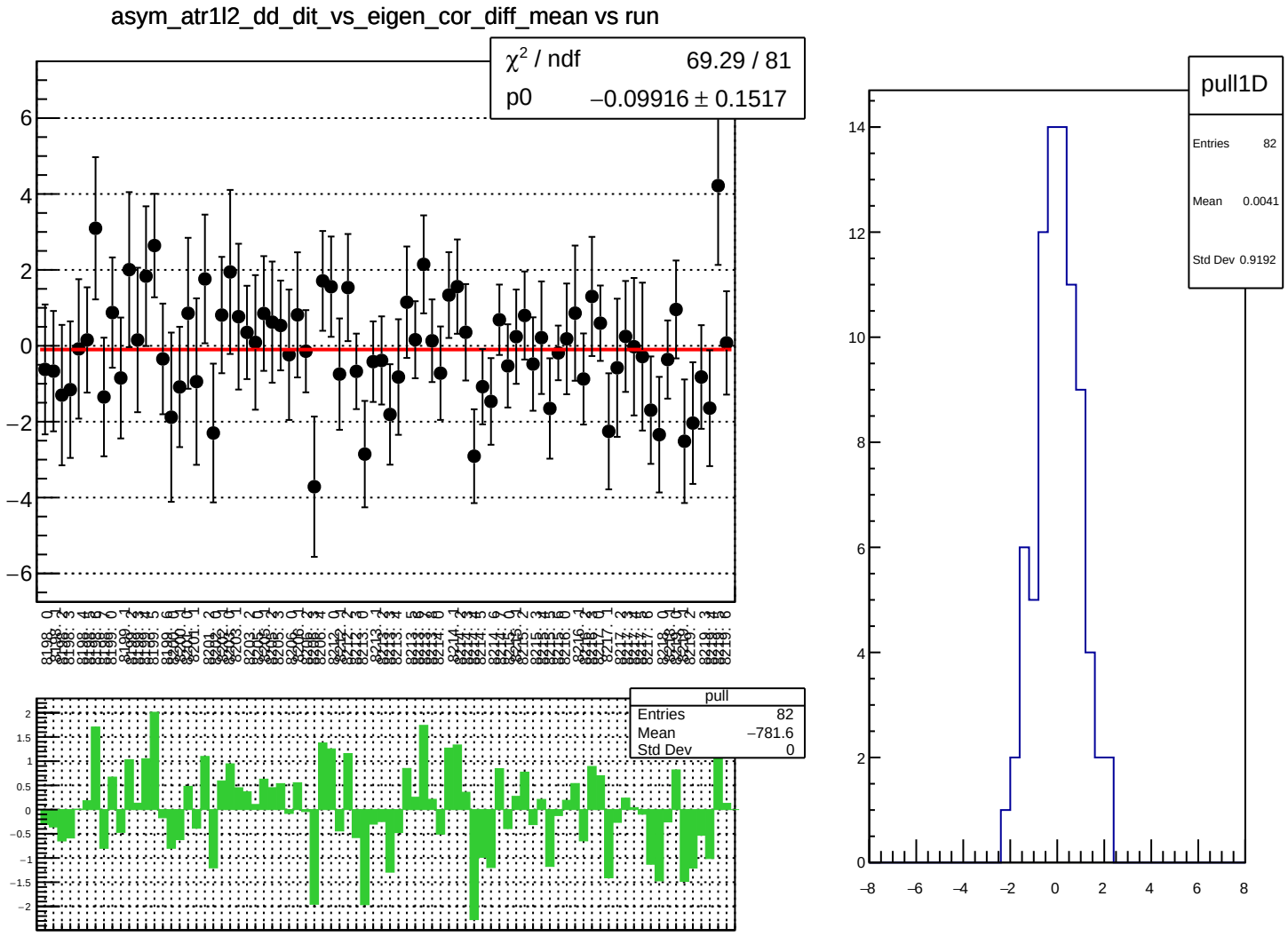

pull1D
Entries 82
Mean 0.0886
Std Dev 0.9588
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

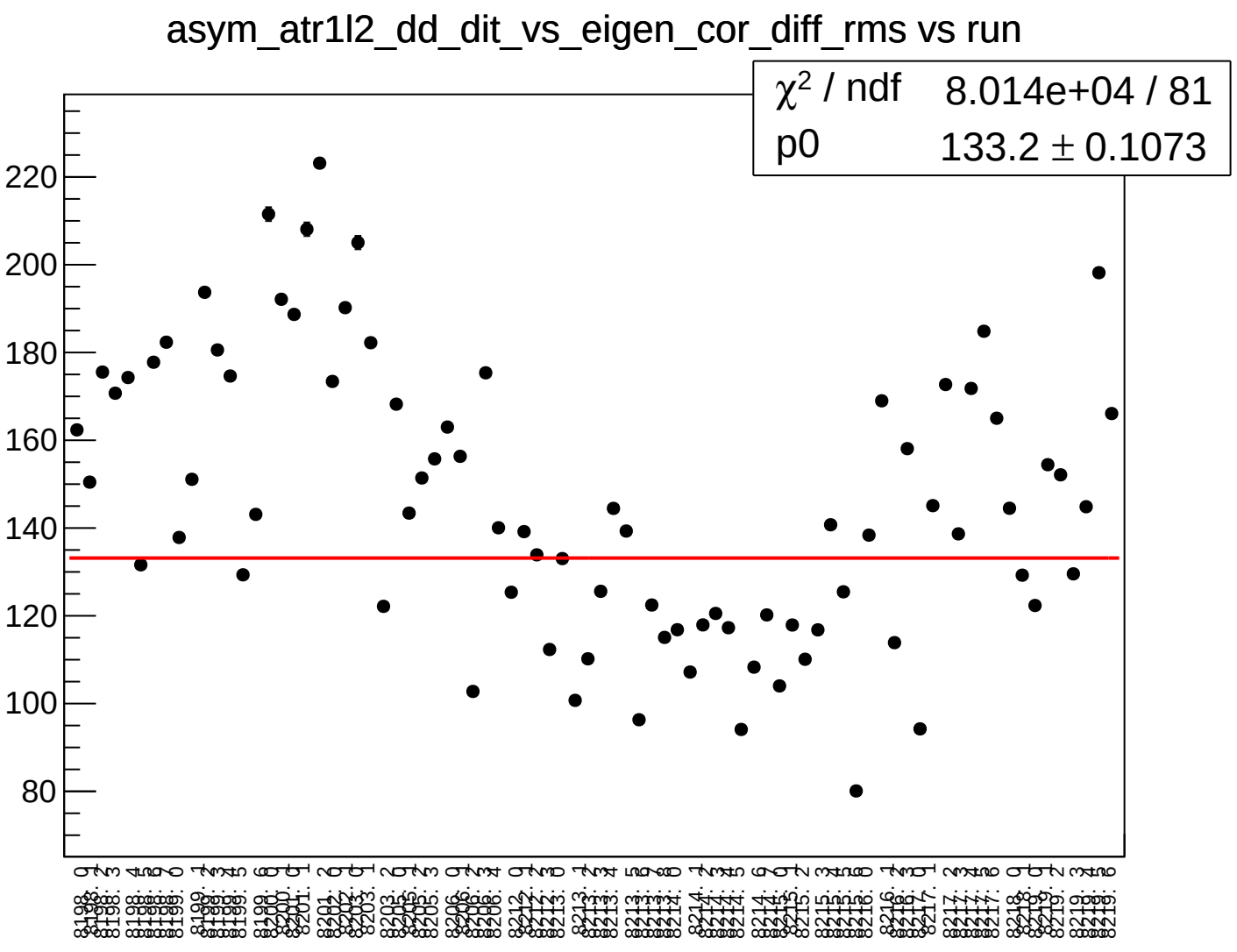

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.818e+05 / 81
p0 3.035e−10 ± 3.795e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

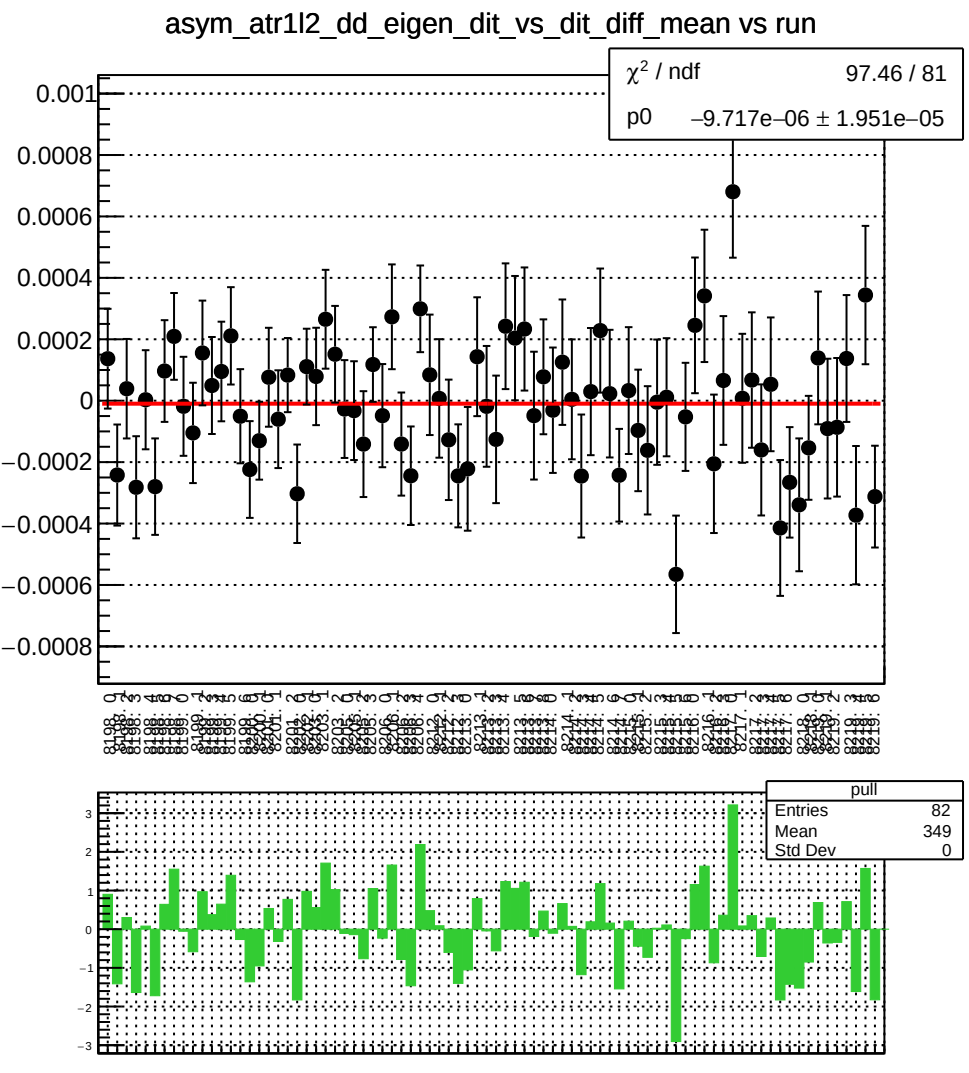

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.29 / 81
p0 −0.09916 ± 0.1517
pull
Entries 82
Mean −781.6
Std Dev 0

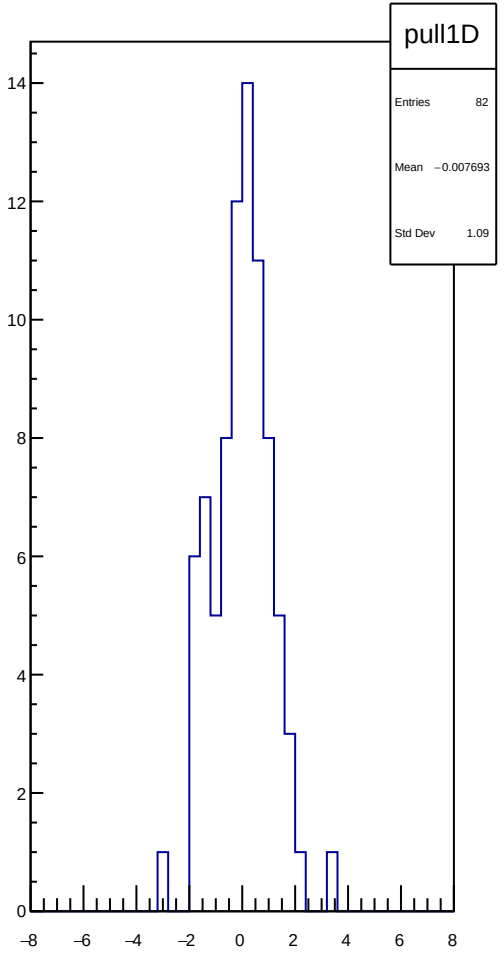

pull1D
Entries 82
Mean 0.0041
Std Dev 0.9192

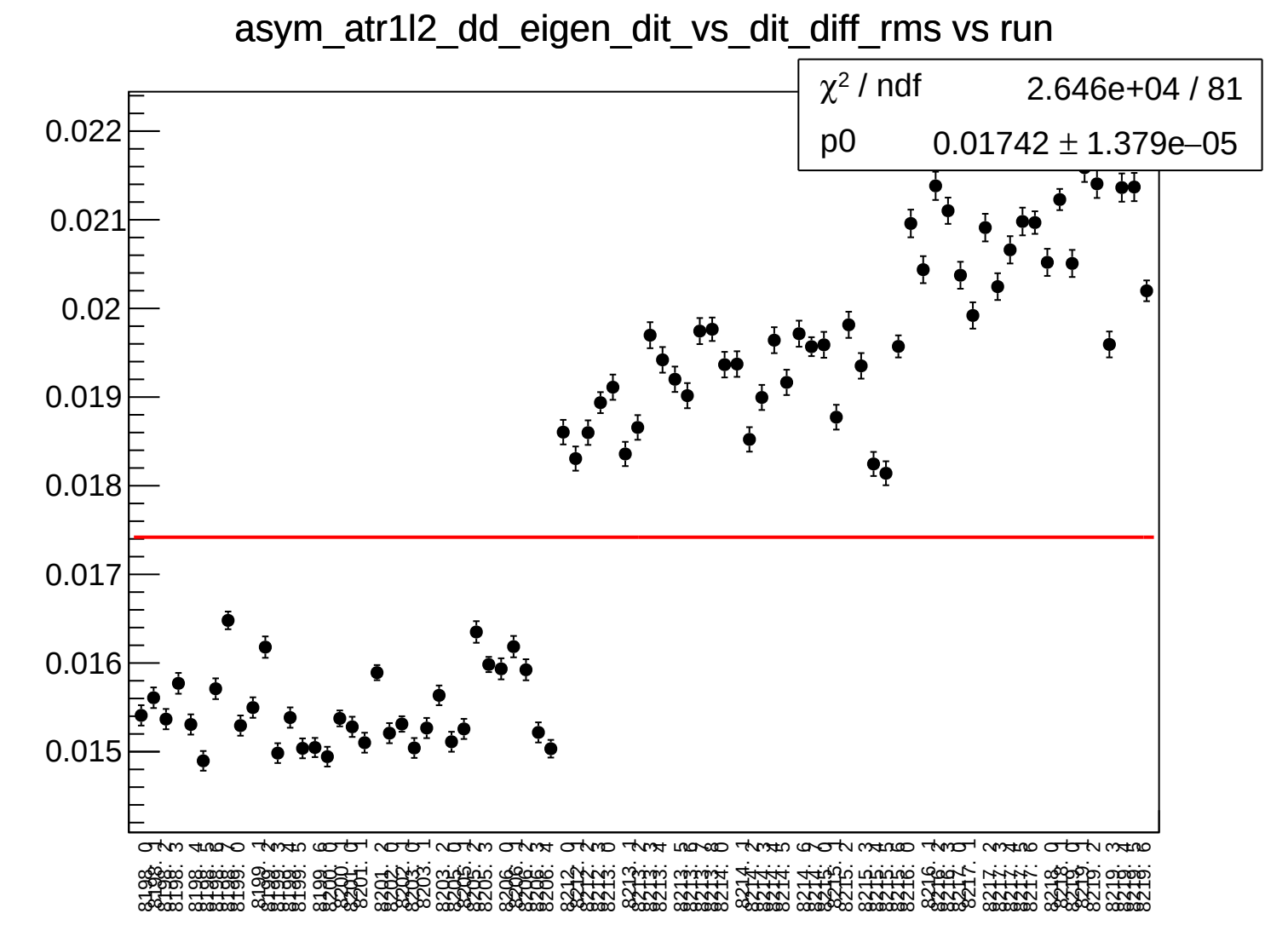

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.014e+04 / 81
p0 133.2 ± 0.1073
220
200
180
160
140
120
100
80

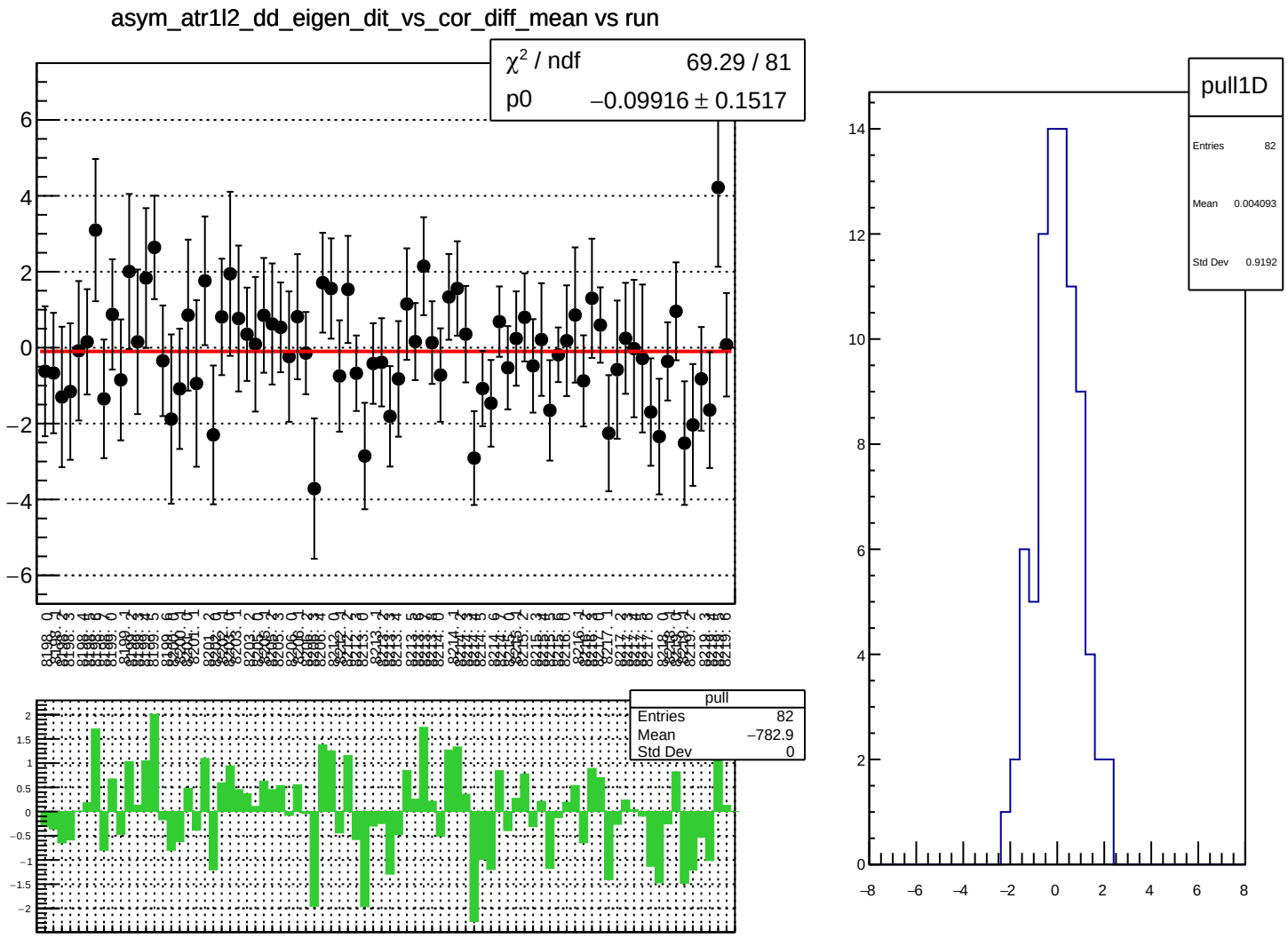

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.29 / 81
p0 −0.09916 ± 0.1517
pull
Entries 82
Mean −781.6
Std Dev 0
pull1D
Entries 82
Mean 0.0041
Std Dev 0.9192

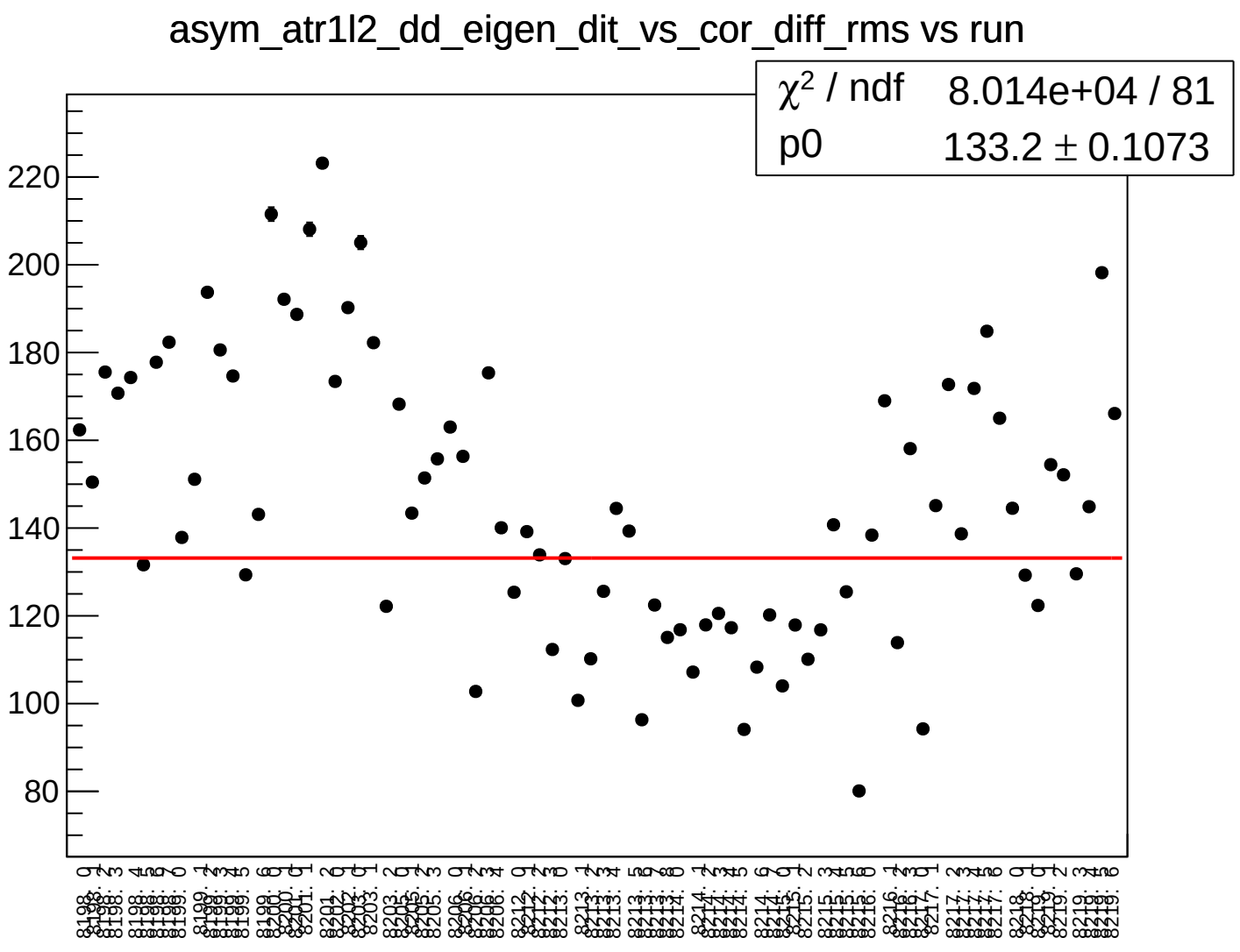

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.014e+04 / 81
p0 133.2 ± 0.1073
220
200
180
160
140
120
100
80

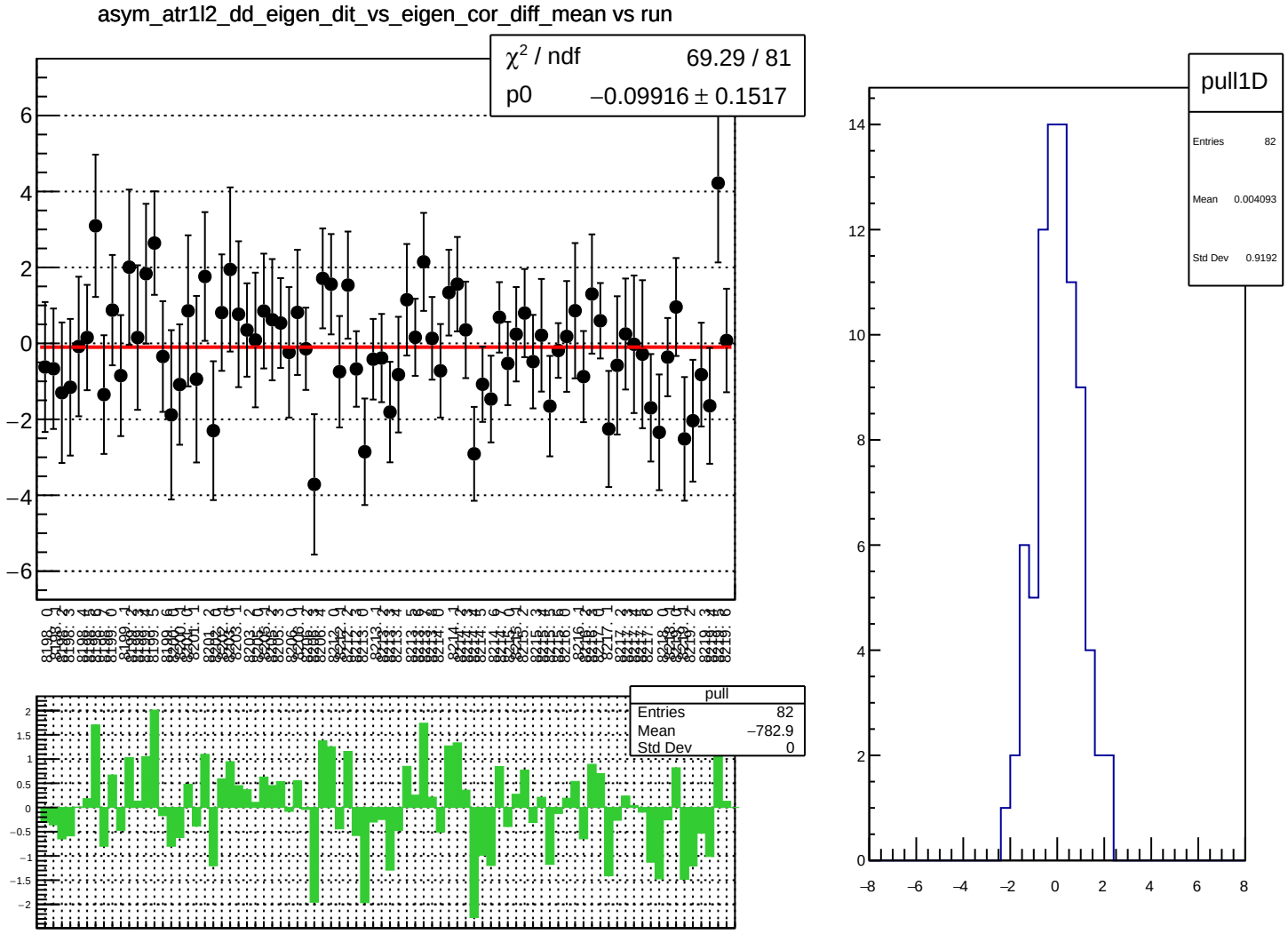

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 97.46 / 81
p0 −9.717e−06 ± 1.951e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 82
Mean 349
Std Dev 0
3
2
1
0
−1
−2
−3

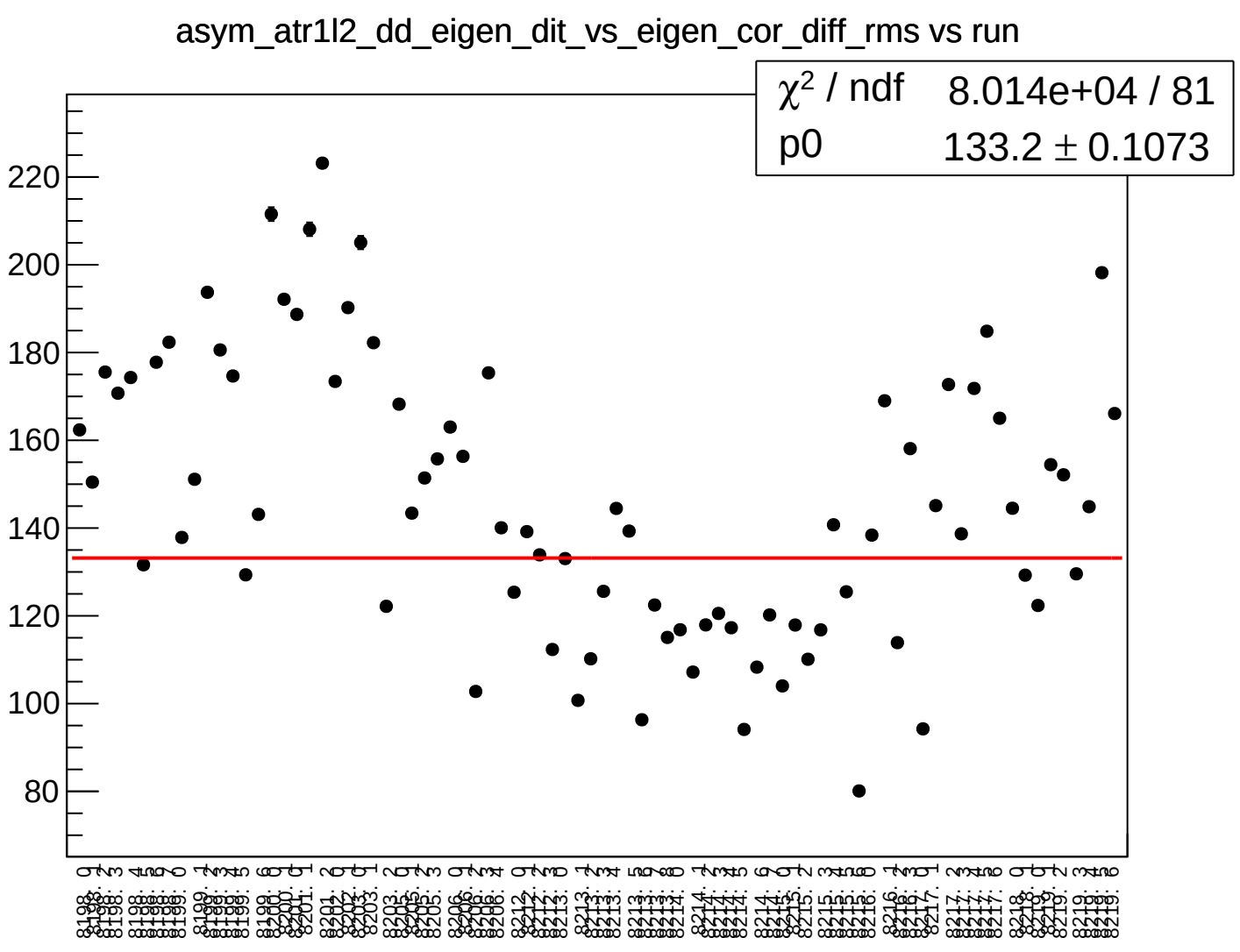

pull1D
Entries 82
Mean −0.007693
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

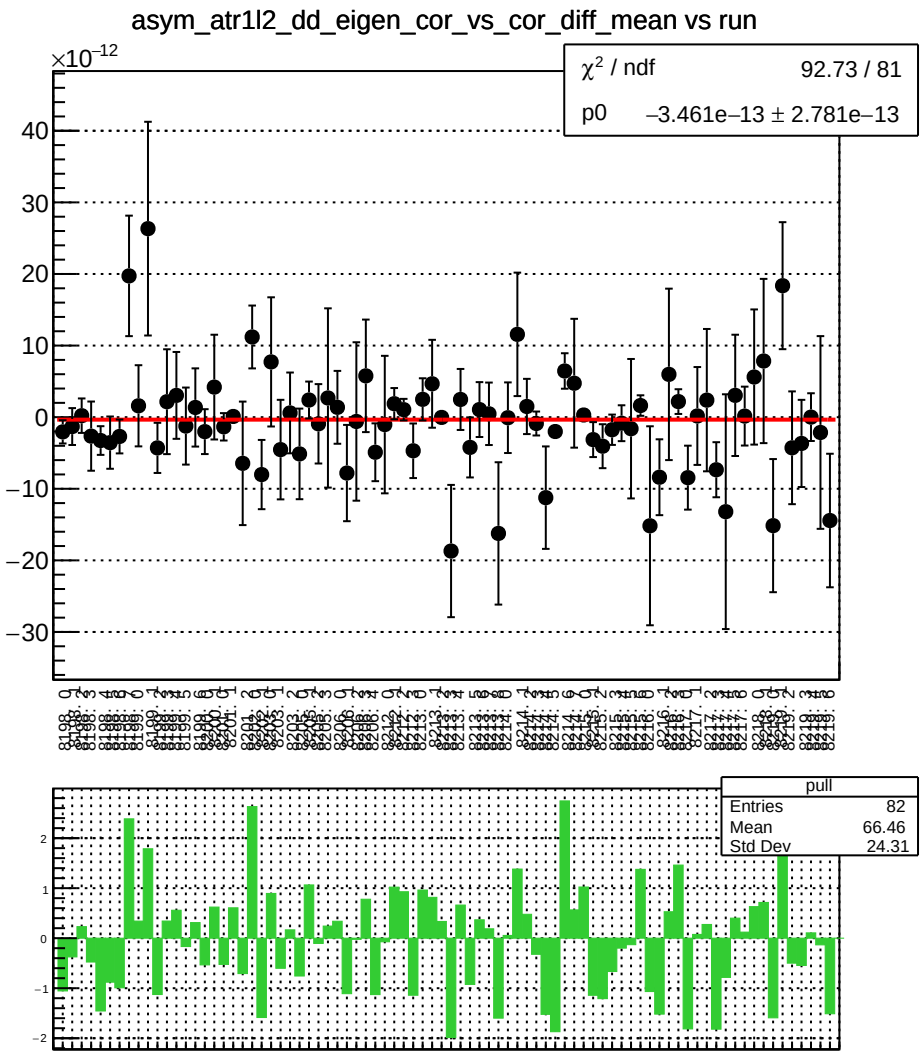

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.646e+04 / 81
p0 0.01742 ± 1.379e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015

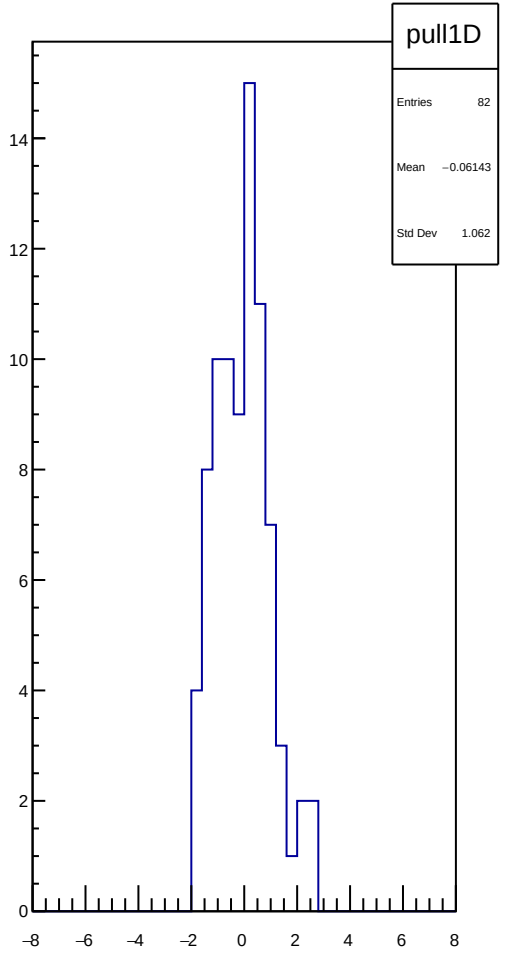

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.29 / 81
p0 −0.09916 ± 0.1517
pull
Entries 82
Mean −782.9
Std Dev 0
pull1D
Entries 82
Mean 0.004093
Std Dev 0.9192

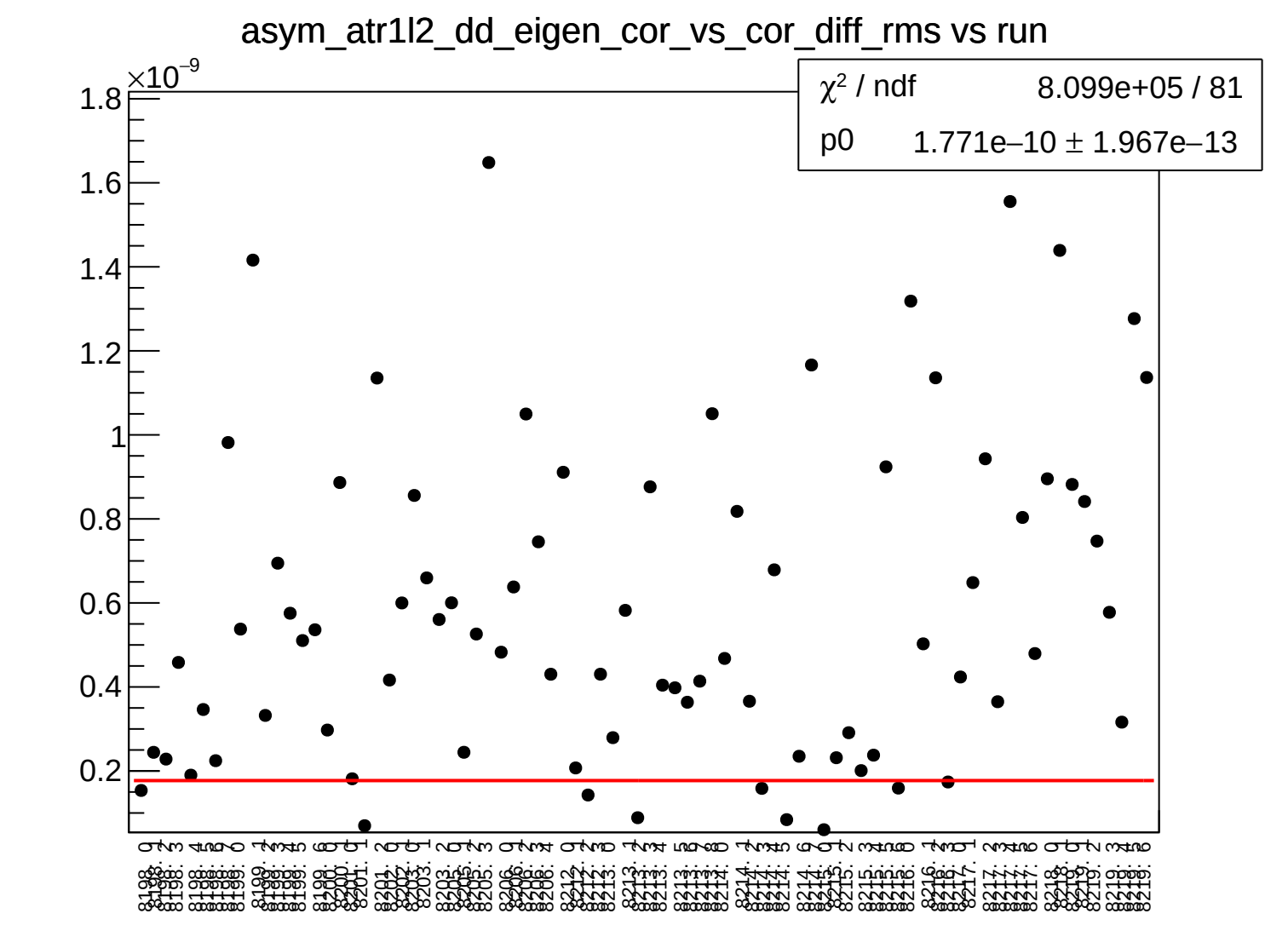

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.014e+04 / 81
p0 133.2 ± 0.1073
220
200
180
160
140
120
100
80

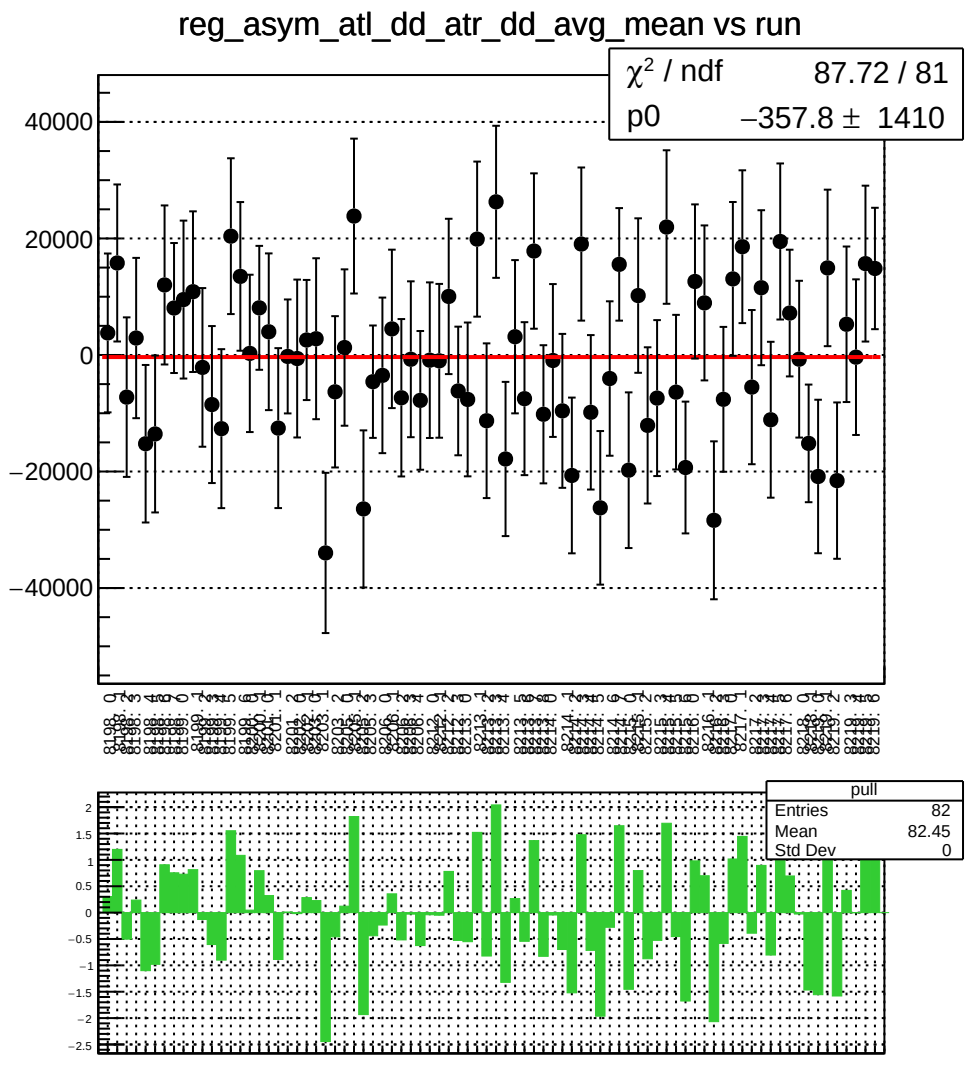

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.29 / 81
p0 −0.09916 ± 0.1517
pull
Entries 82
Mean −782.9
Std Dev 0
pull1D
Entries 82
Mean 0.004093
Std Dev 0.9192

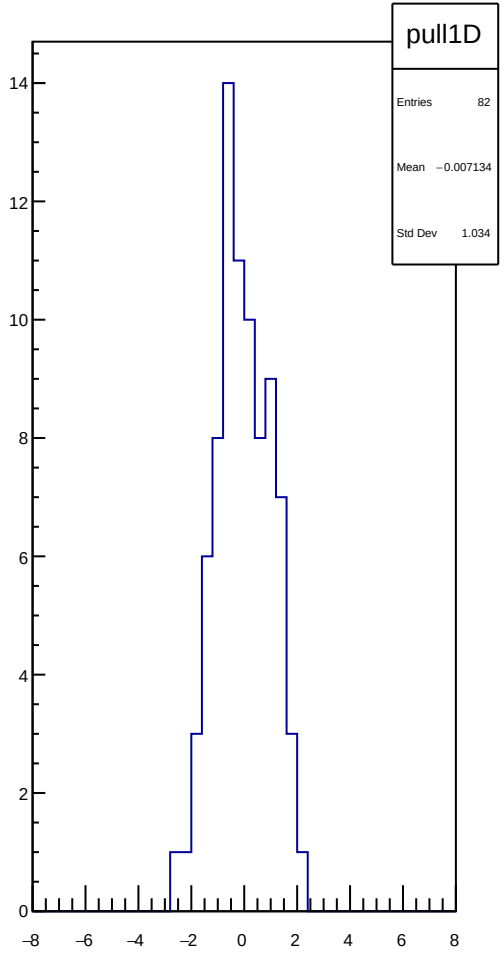

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.014e+04 / 81
p0 133.2 ± 0.1073
220
200
180
160
140
120
100
80

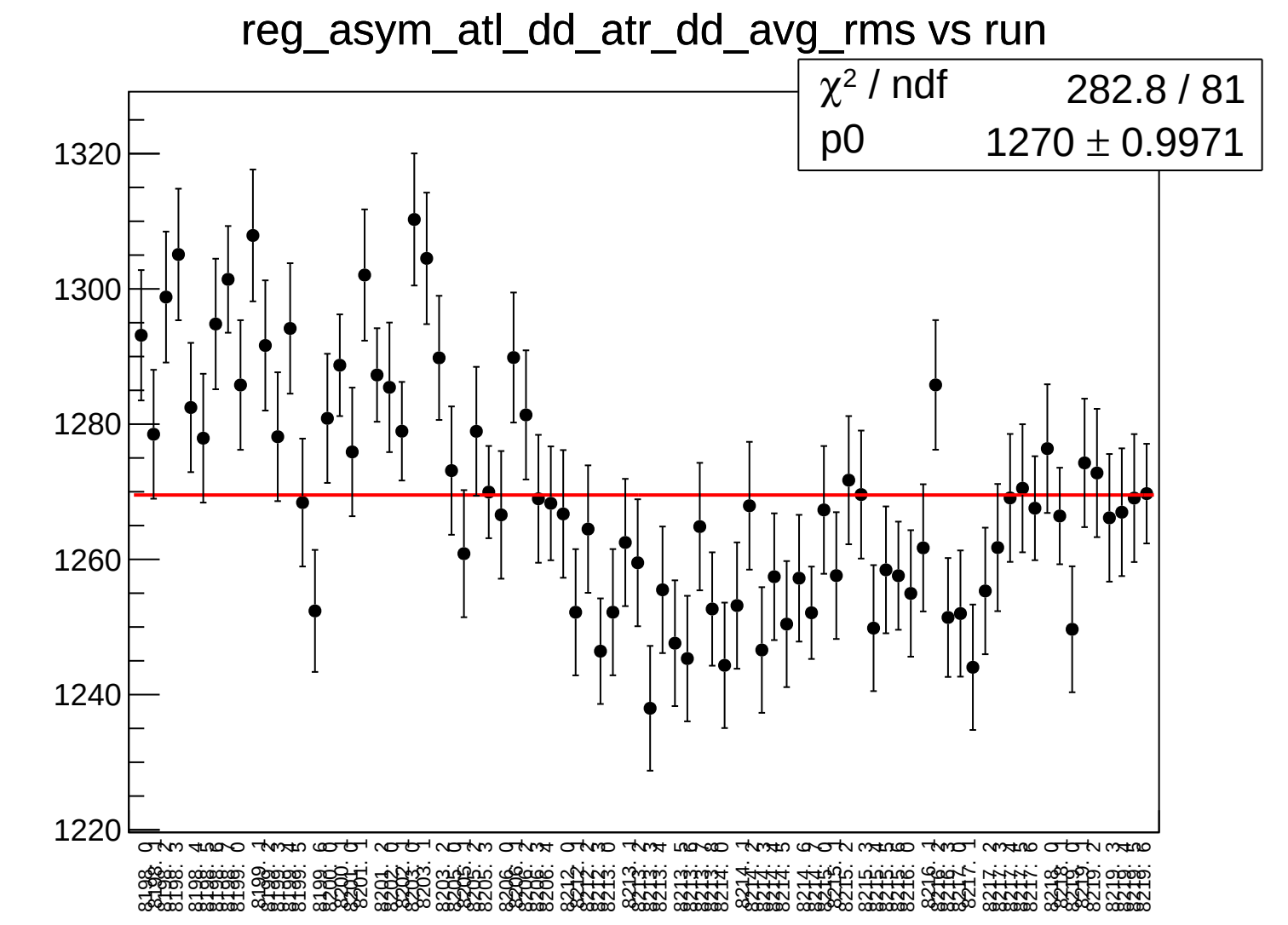

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.73 / 81
p0 −3.461e−13 ± 2.781e−13
40
30
20
10
0
−10
−20
−30
pull
Entries 82
Mean 66.46
Std Dev 24.31
2
1
0
−1
−2

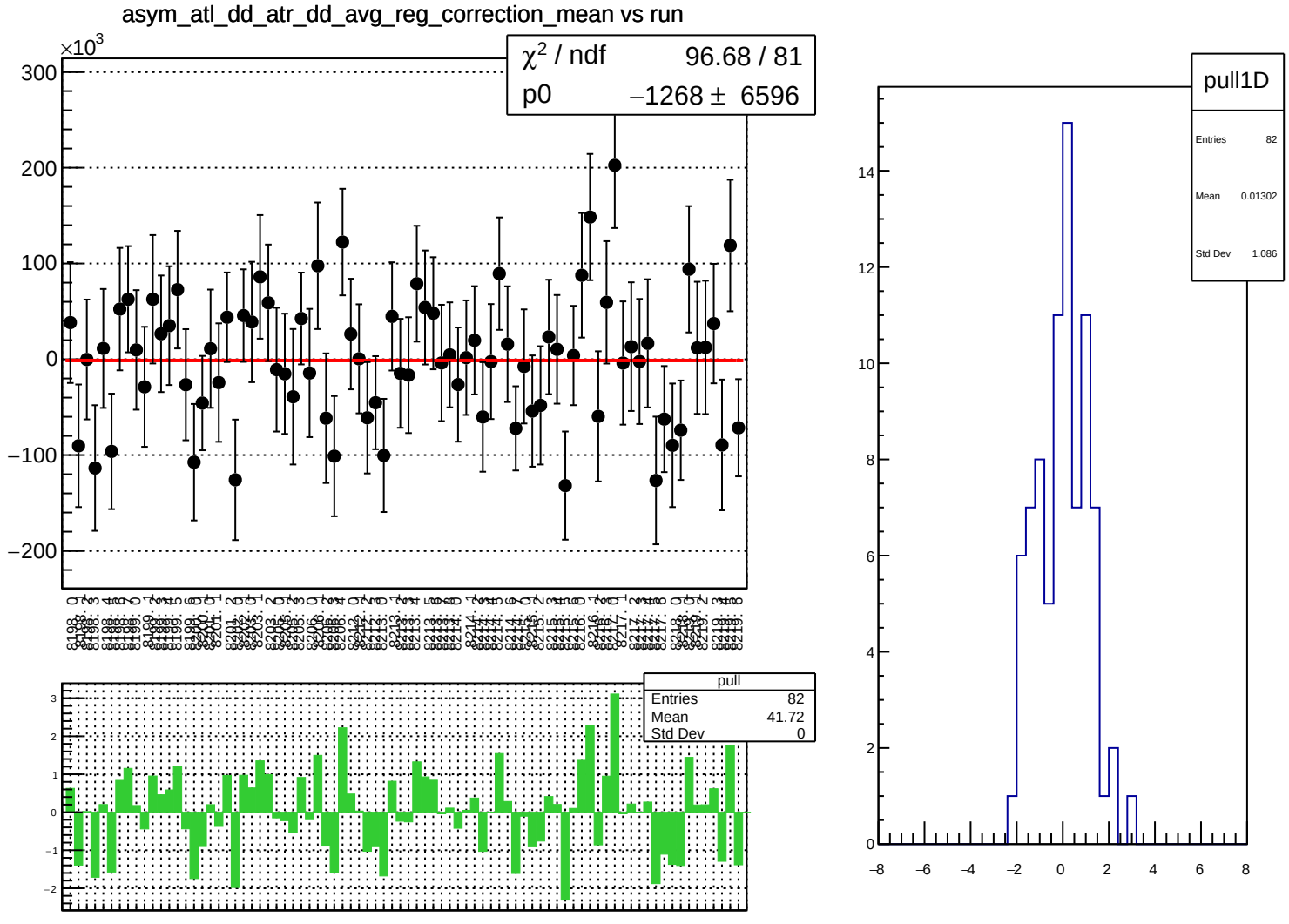

pull1D
Entries 82
Mean −0.06143
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

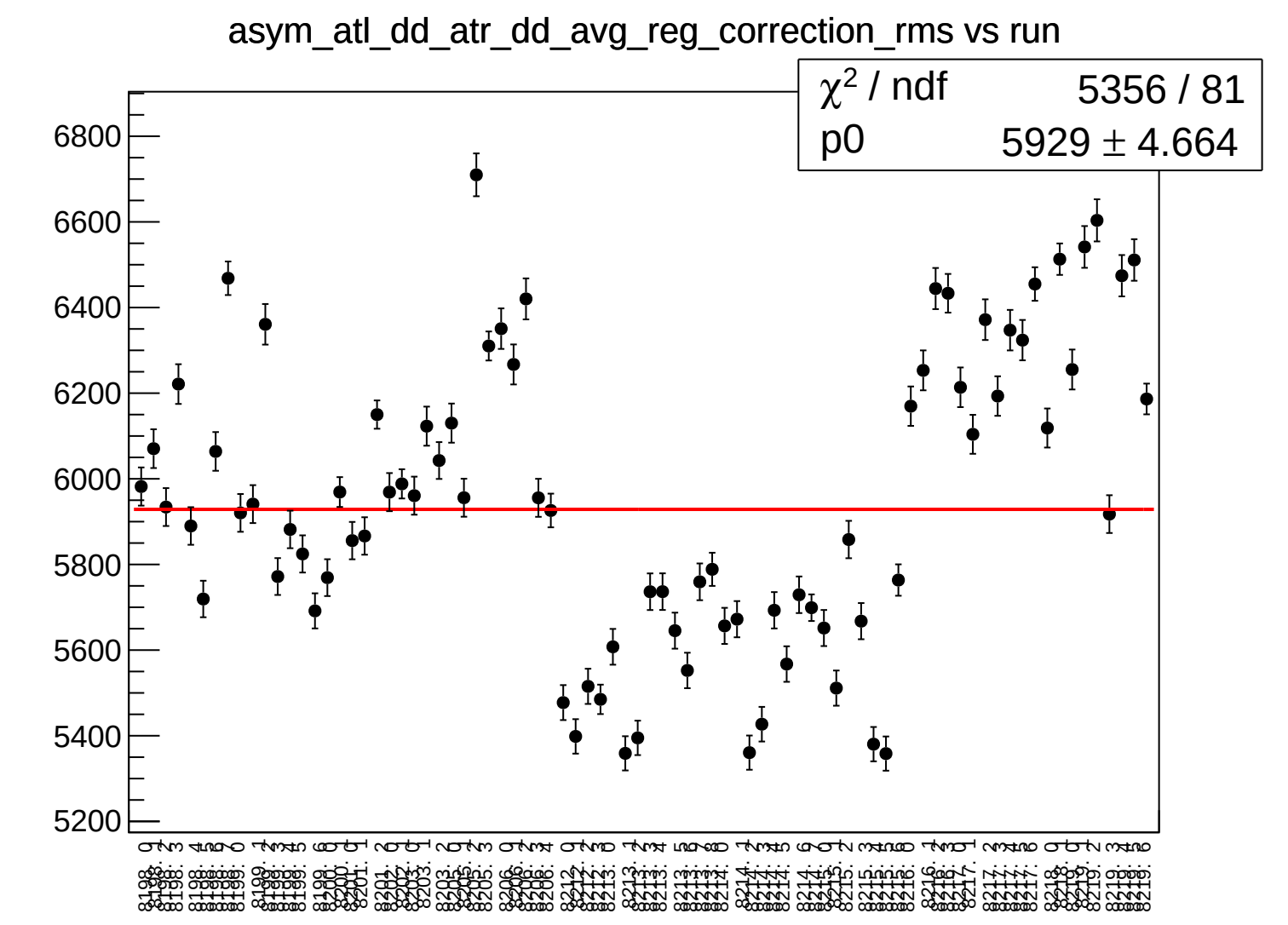

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.099e+05 / 81
p0 1.771e−10 ± 1.967e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

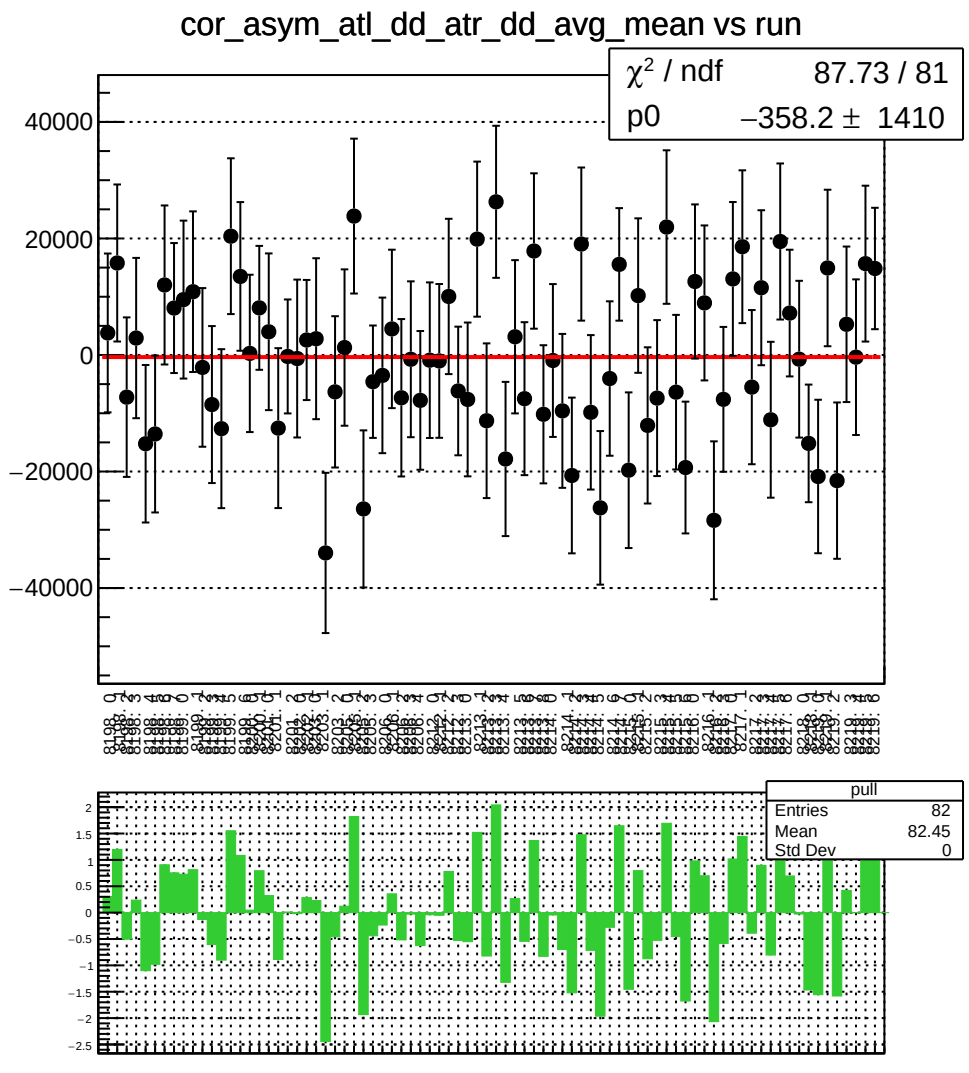

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 87.72 / 81
p0 −357.8 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 82.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

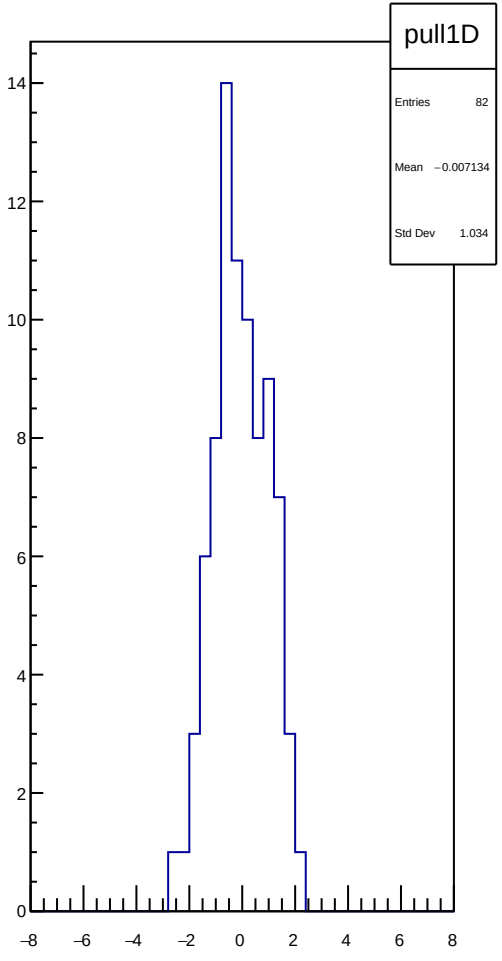

pull1D
Entries 82
Mean −0.007134
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

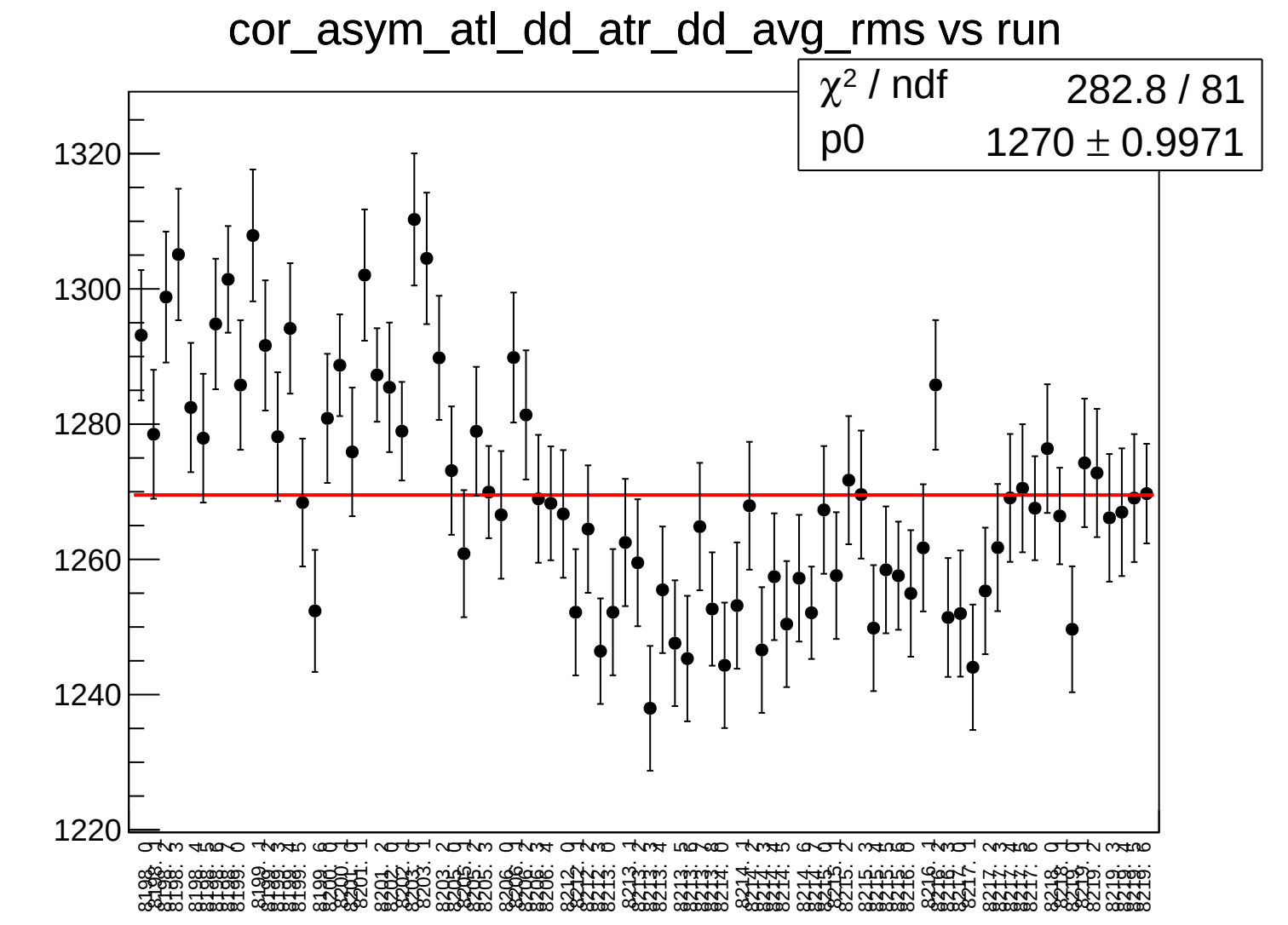

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 282.8 / 81
p0 1270 ± 0.9971
1320
1300
1280
1260
1240
1220

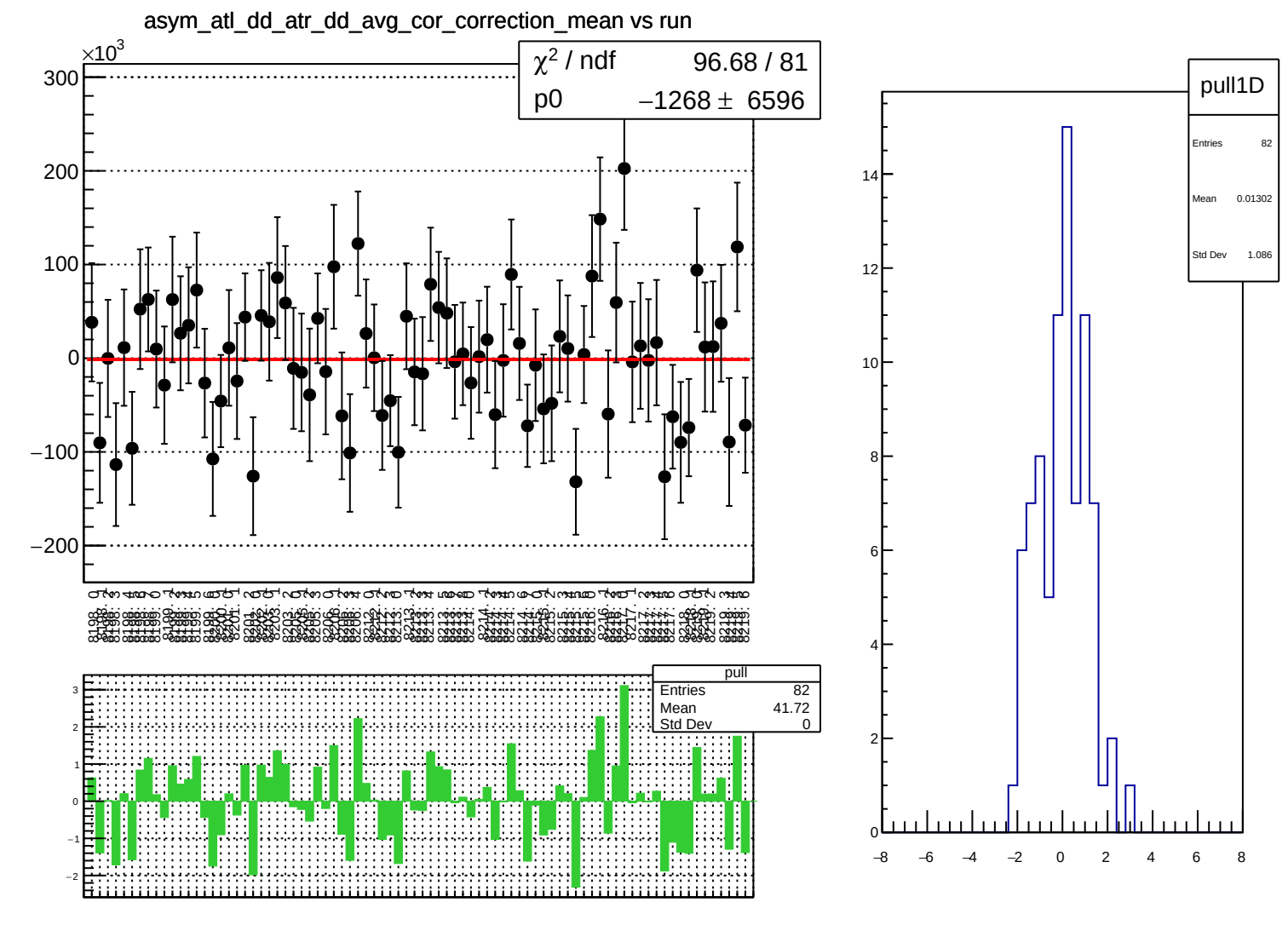

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.68 / 81
p0 −1268 ± 6596
pull
Entries 82
Mean 41.72
Std Dev 0
pull1D
Entries 82
Mean 0.01302
Std Dev 1.086

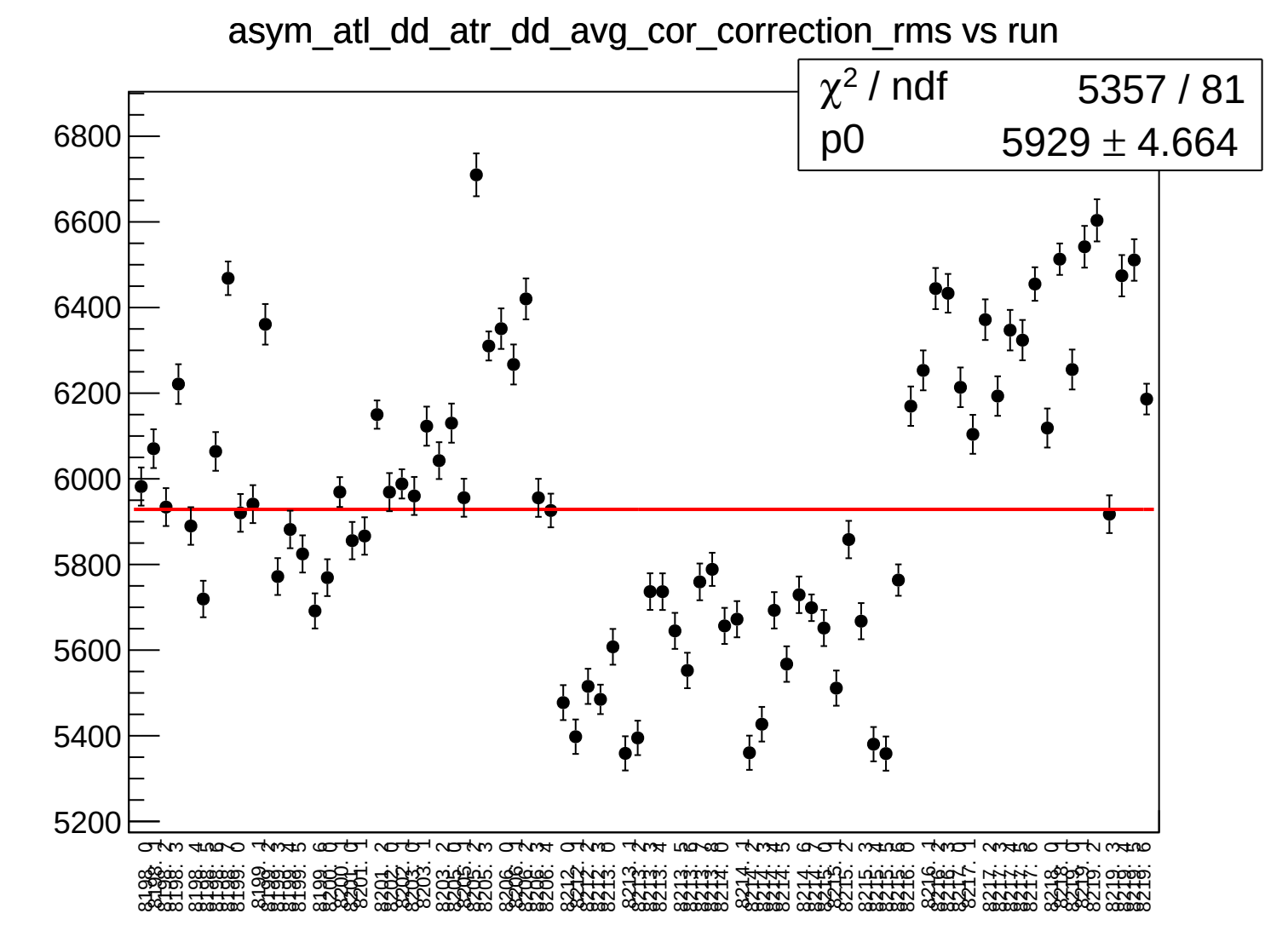

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 5356 / 81
p0 5929 ± 4.664
6800
6600
6400
6200
6000
5800
5600
5400
5200

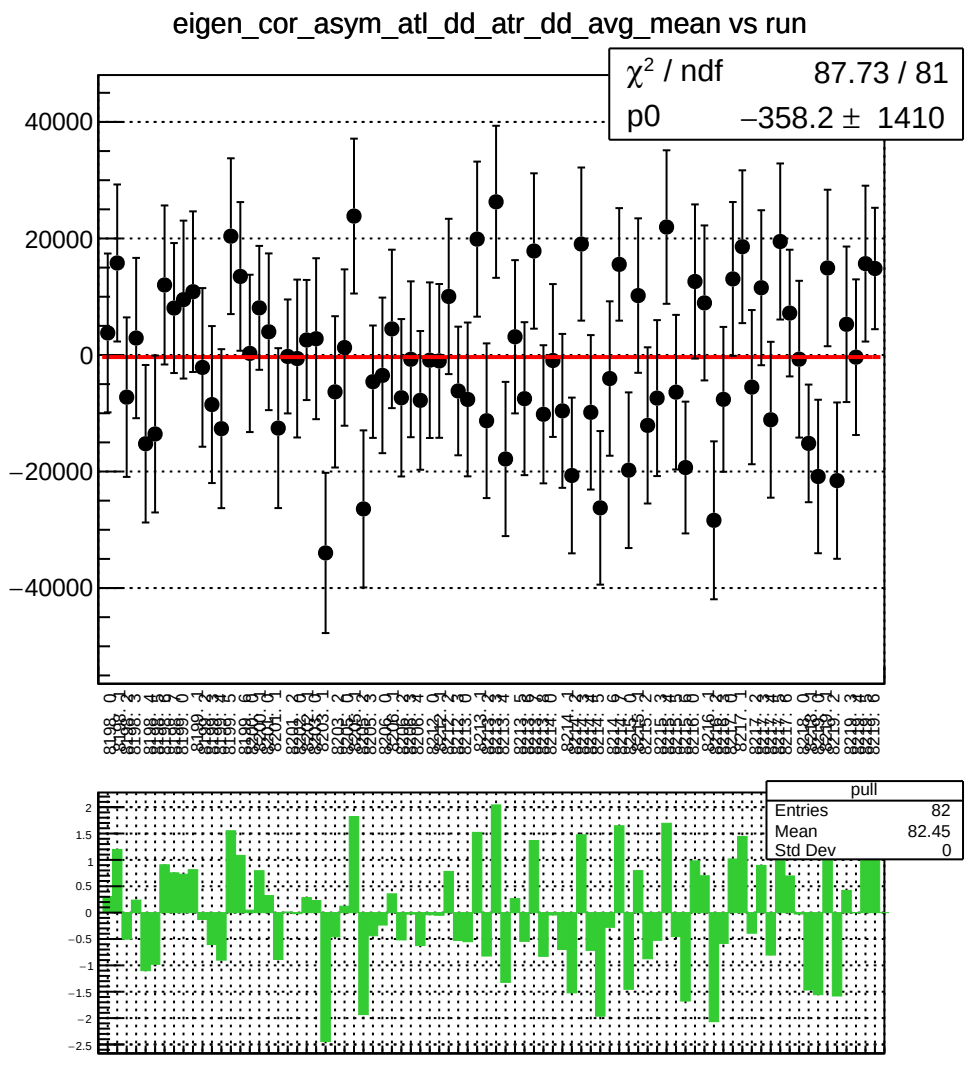

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 87.73 / 81
p0 −358.2 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 82.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

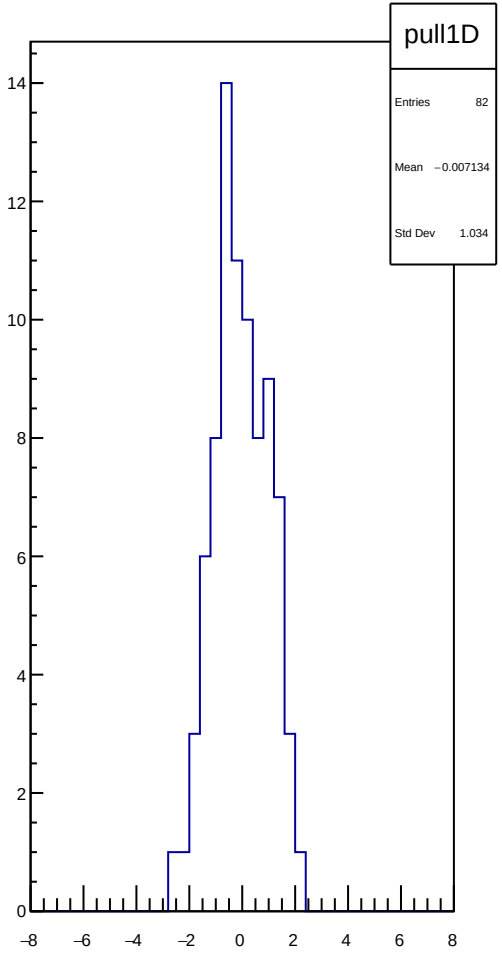

pull1D
Entries 82
Mean −0.007134
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

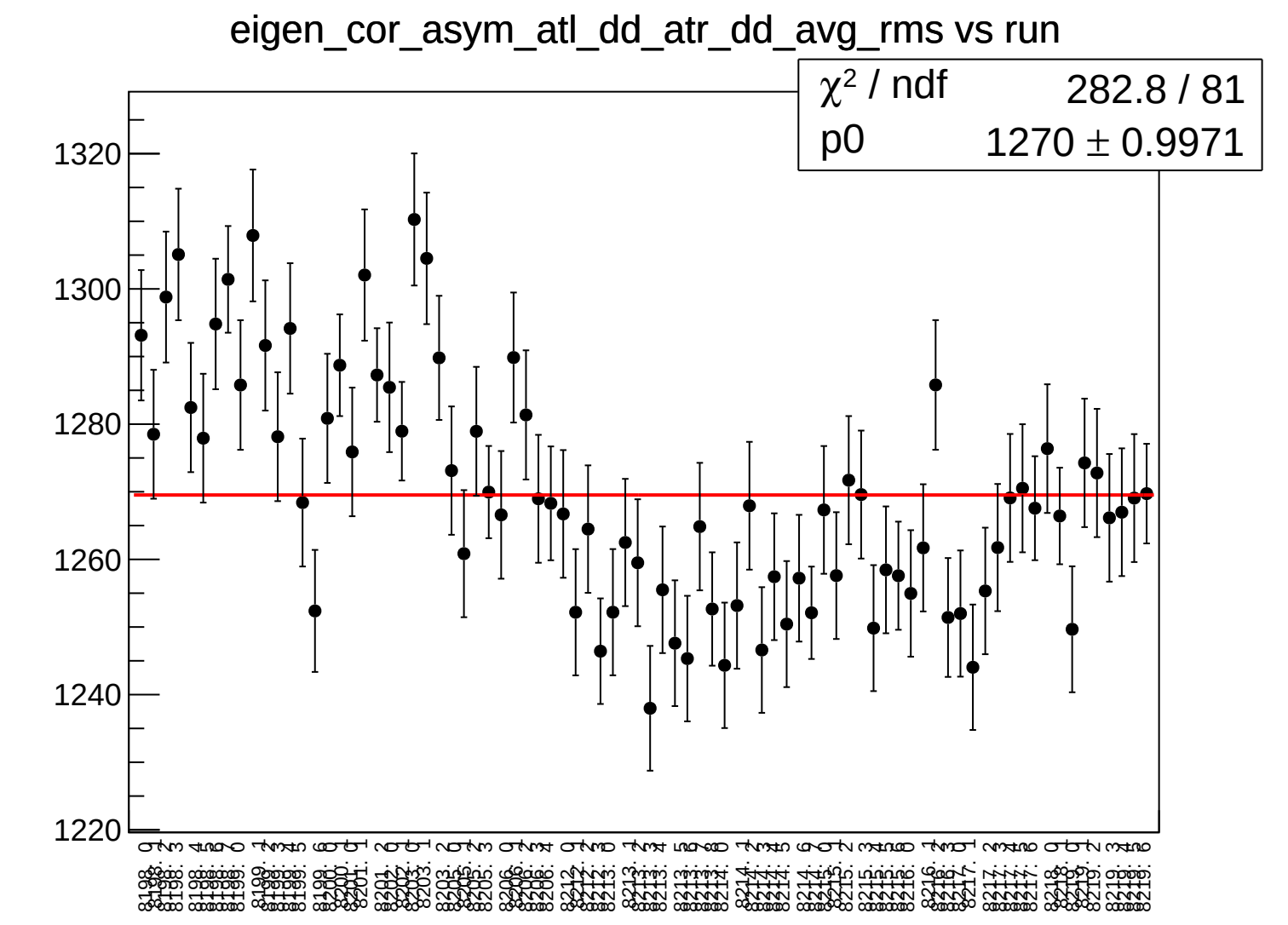

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 282.8 / 81
p0 1270 ± 0.9971
1320
1300
1280
1260
1240
1220

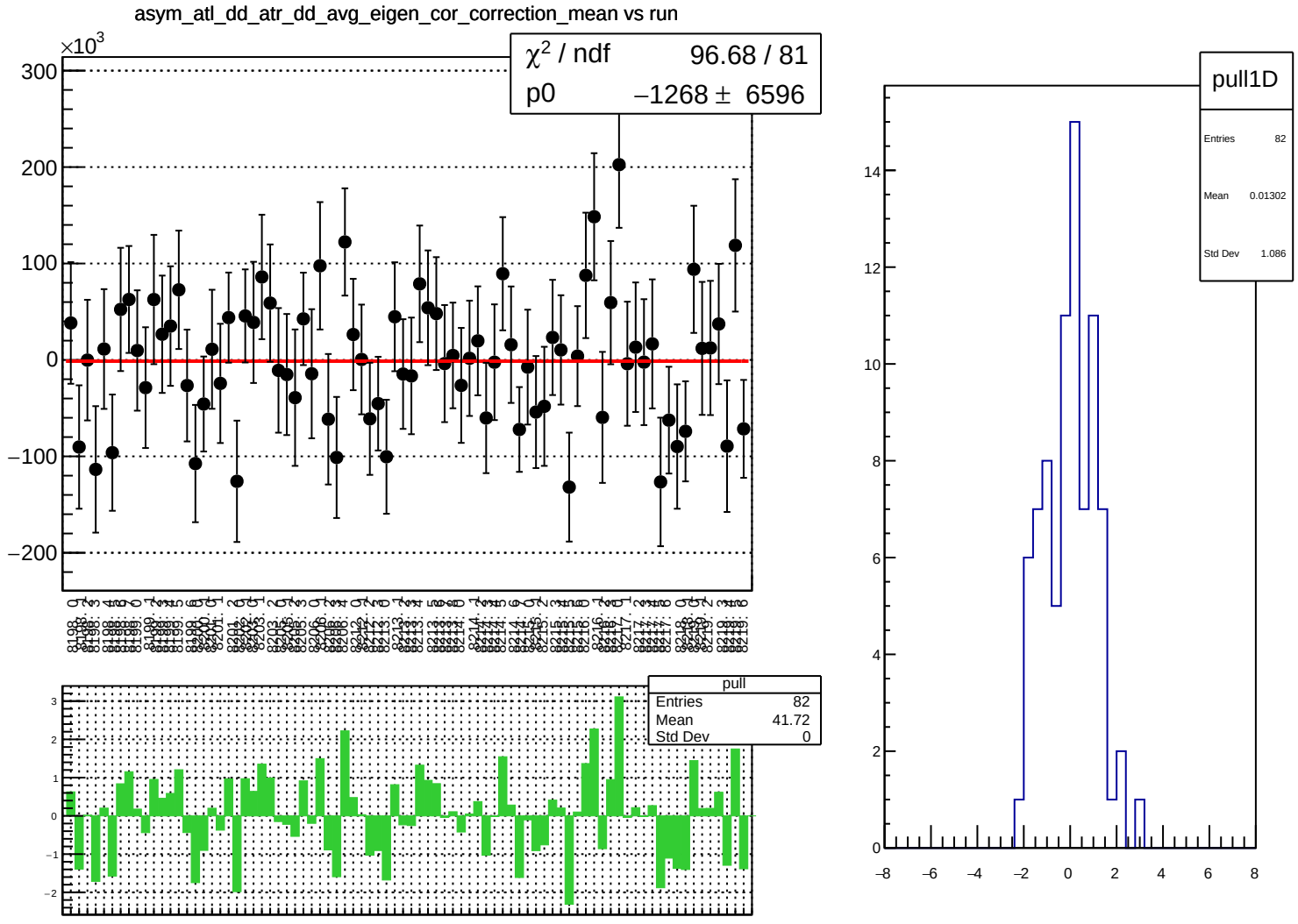

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.68 / 81
p0 −1268 ± 6596
pull
Entries 82
Mean 41.72
Std Dev 0
pull1D
Entries 82
Mean 0.01302
Std Dev 1.086

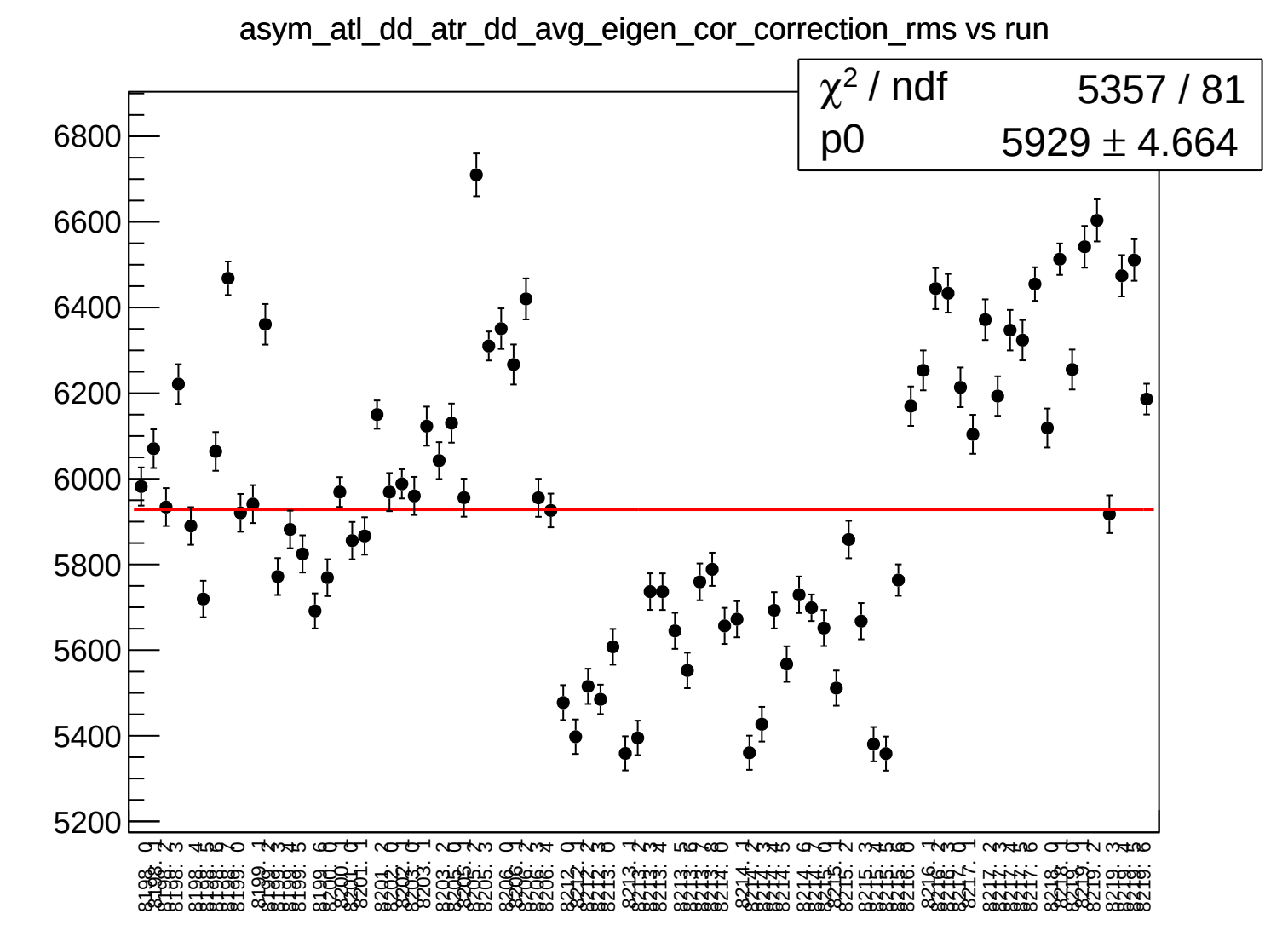

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 5357 / 81
p0 5929 ± 4.664
6800
6600
6400
6200
6000
5800
5600
5400
5200

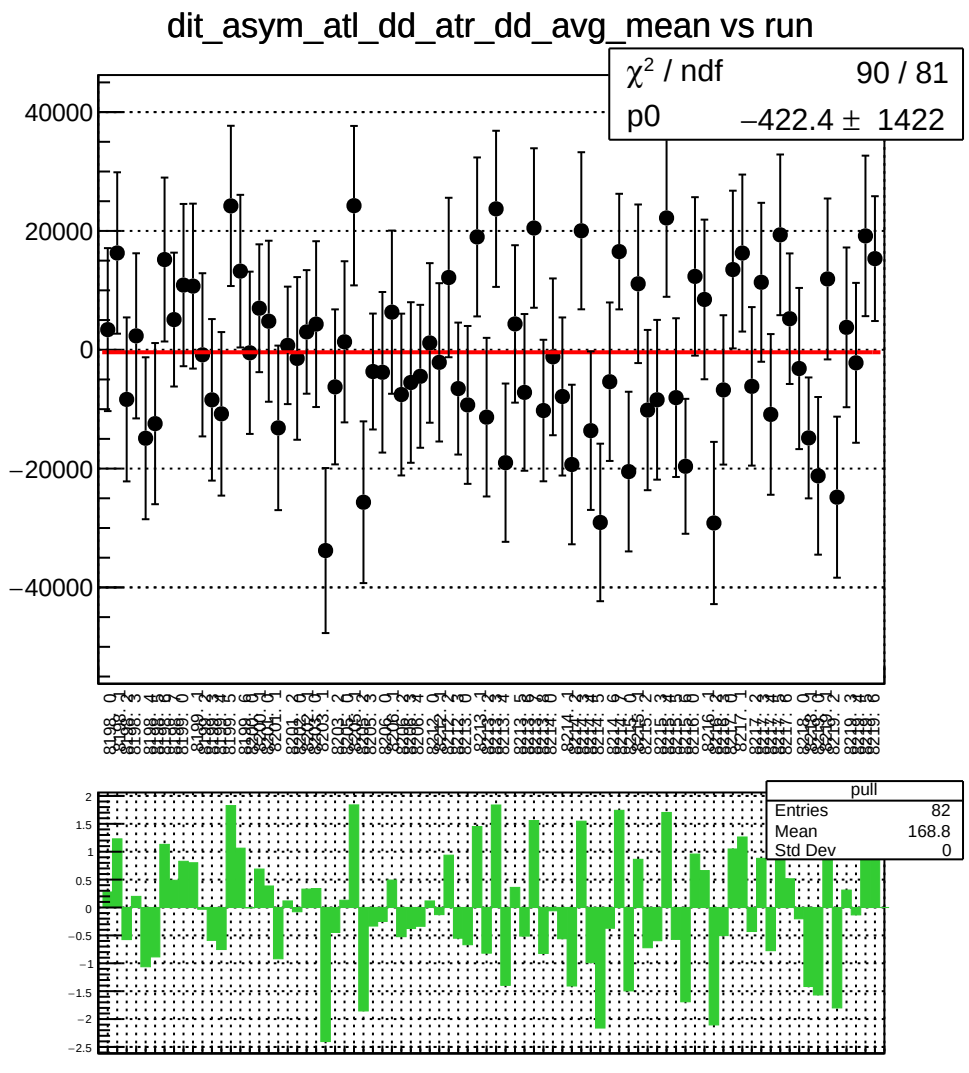

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 87.73 / 81
p0 −358.2 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 82.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

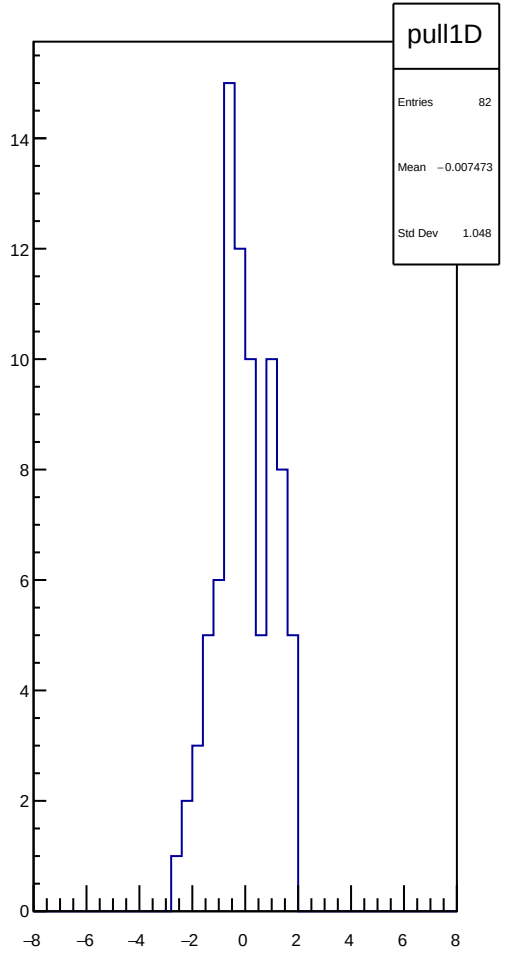

pull1D
Entries 82
Mean −0.007134
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

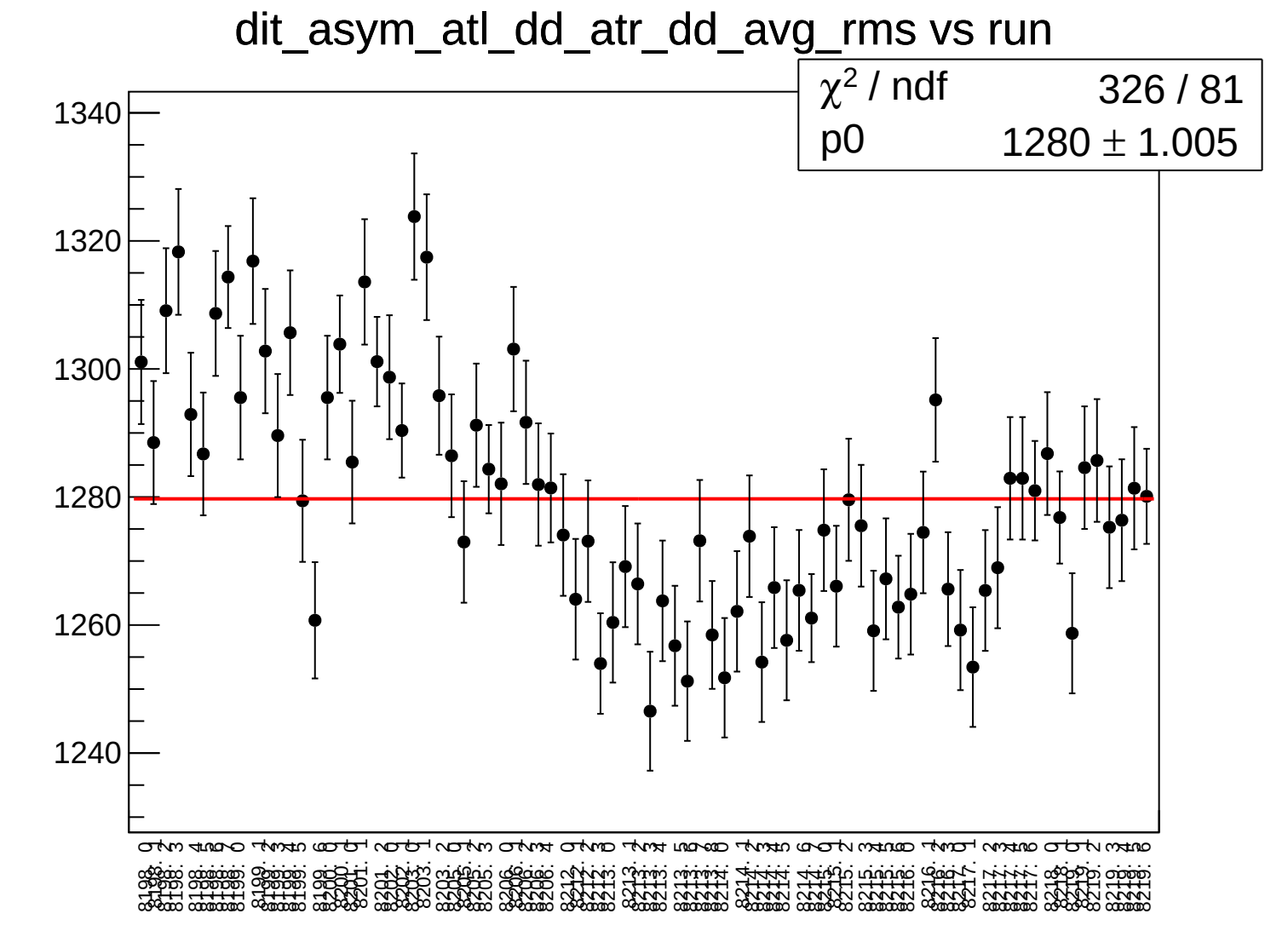

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 282.8 / 81
p0 1270 ± 0.9971
1320
1300
1280
1260
1240
1220

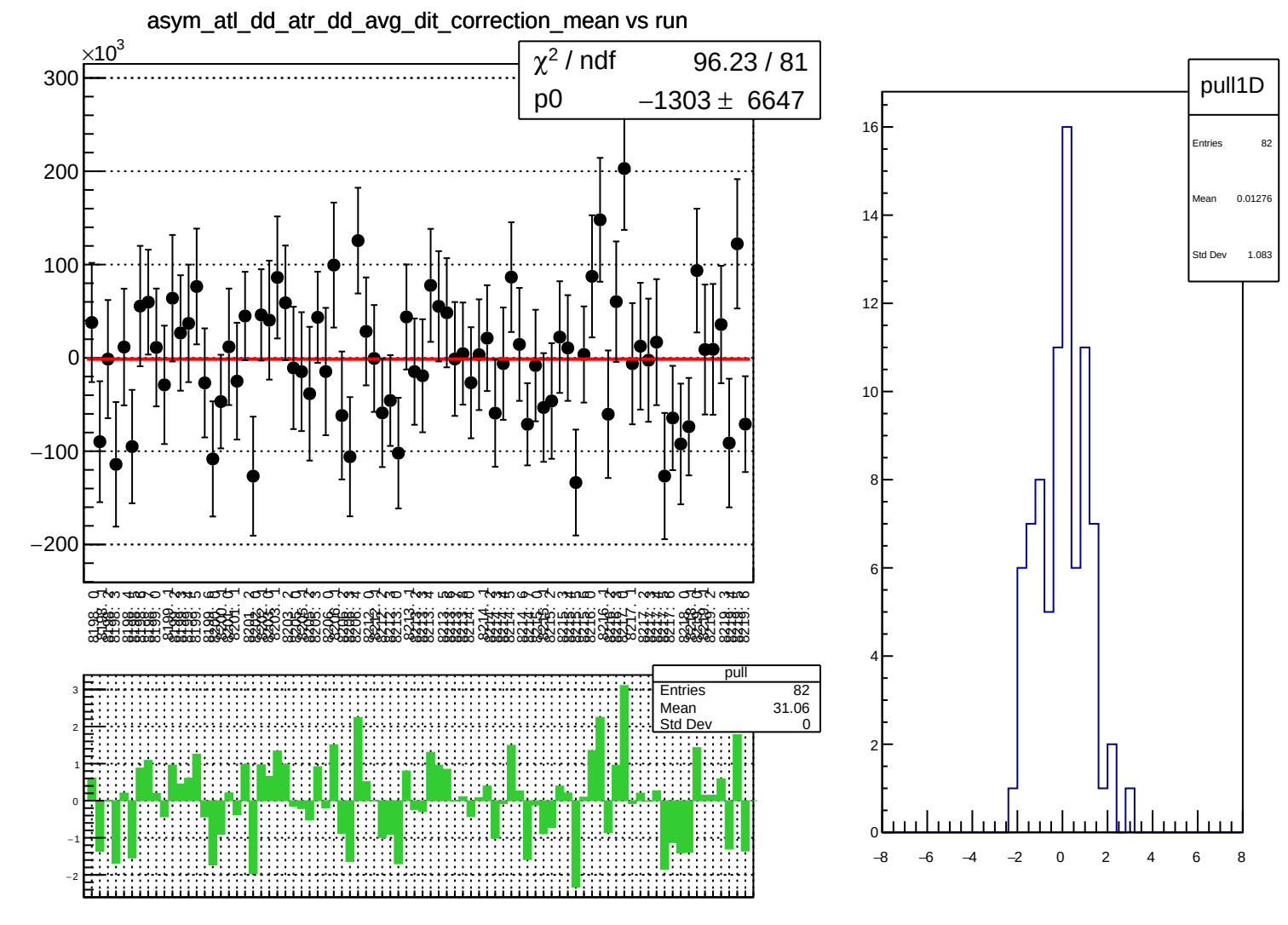

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.68 / 81
p0 −1268 ± 6596
pull
Entries 82
Mean 41.72
Std Dev 0
pull1D
Entries 82
Mean 0.01302
Std Dev 1.086

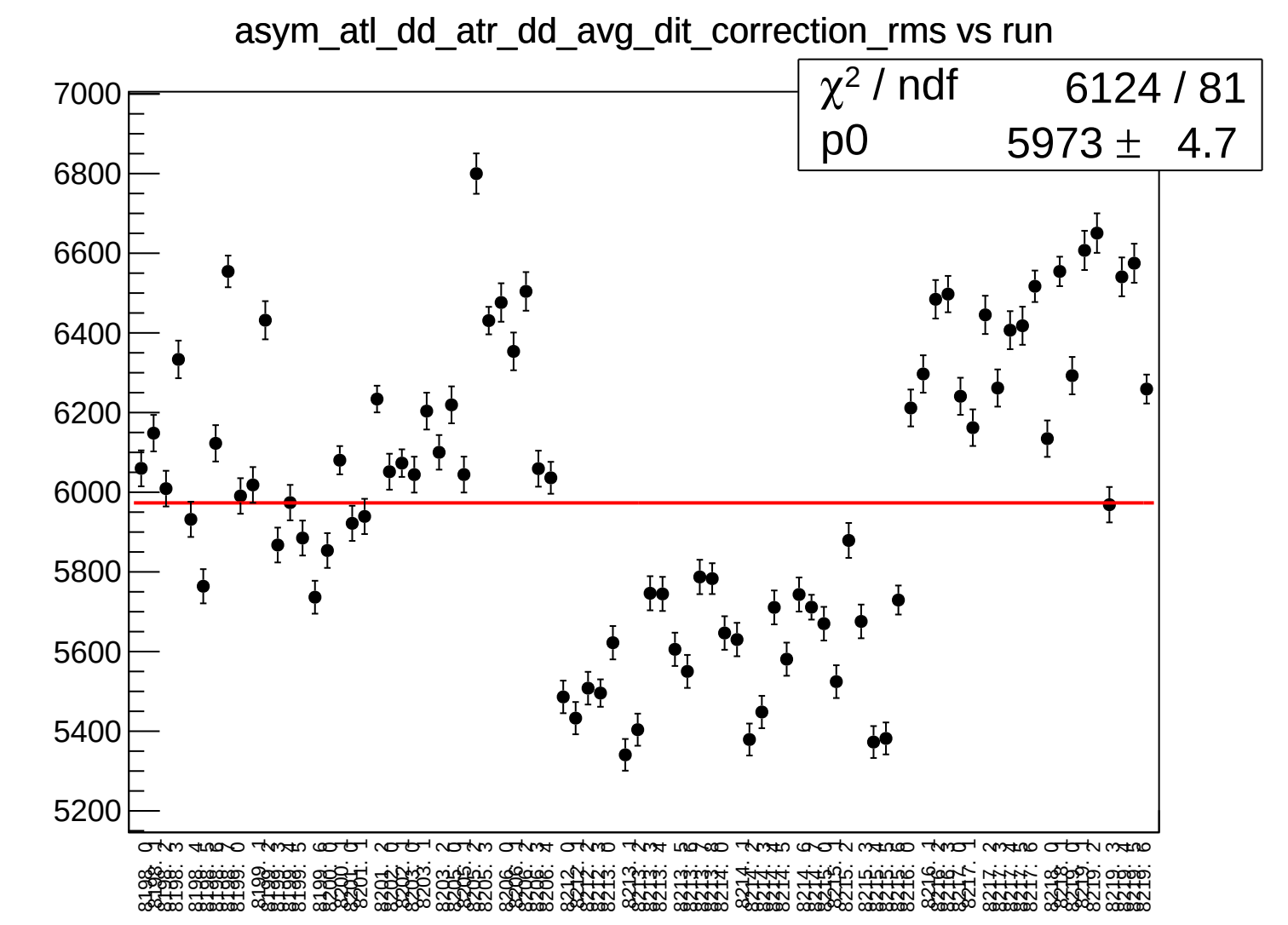

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5357 / 81
p0 5929 ± 4.664
6800
6600
6400
6200
6000
5800
5600
5400
5200

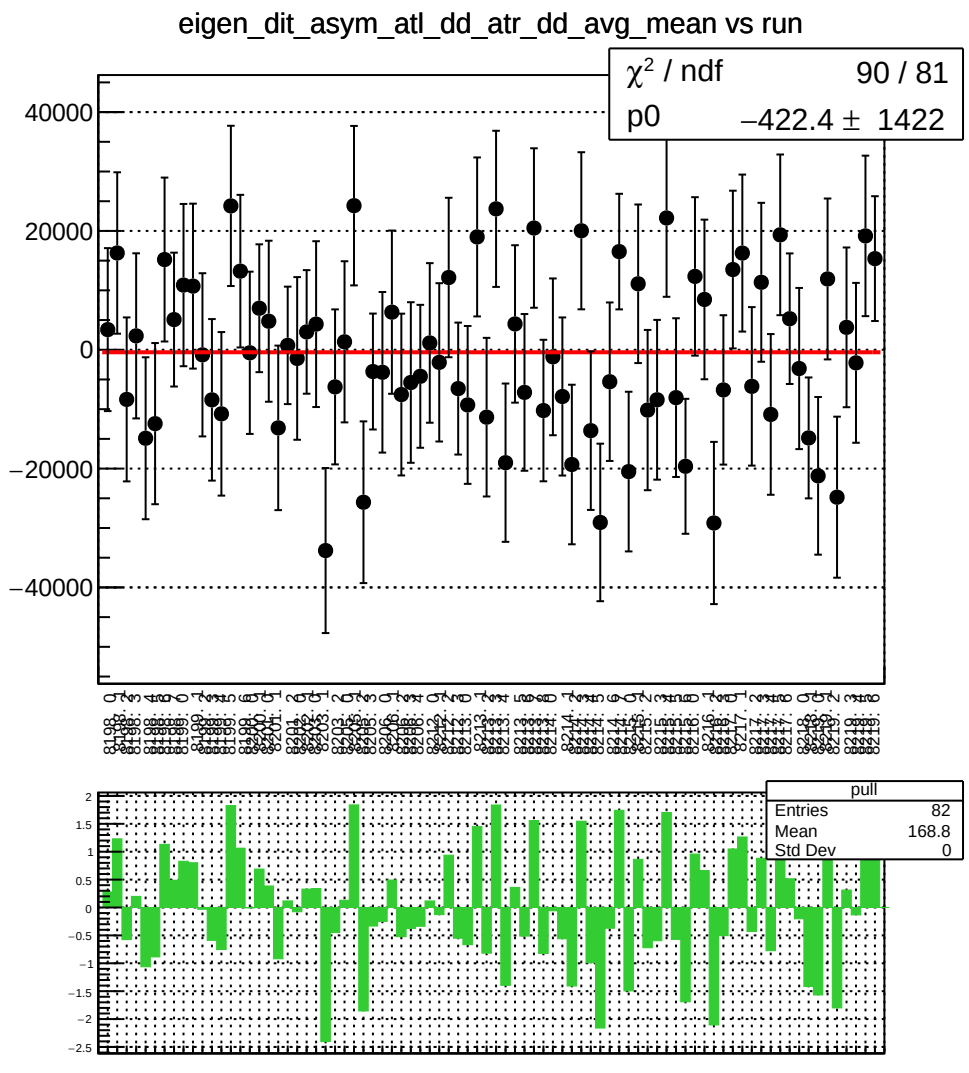

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 90 / 81
p0 −422.4 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 168.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

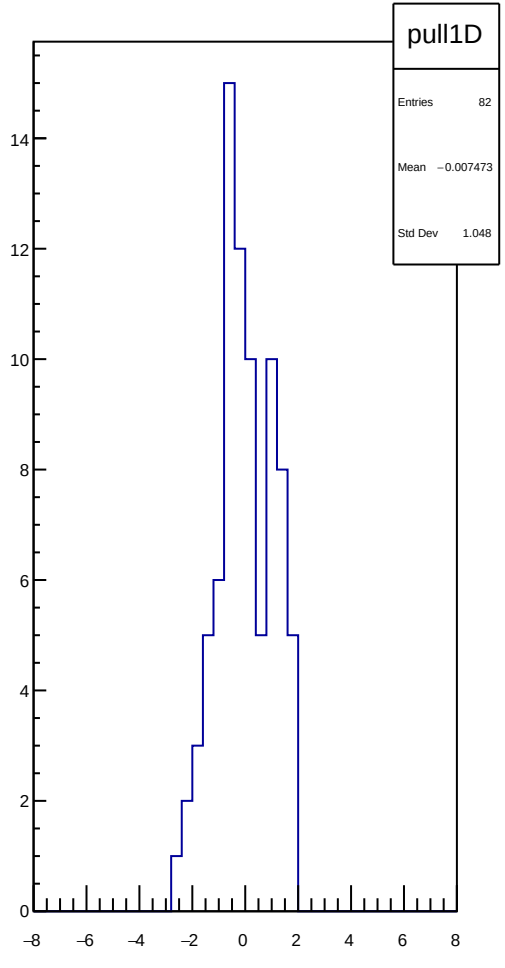

pull1D
Entries 82
Mean −0.007473
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

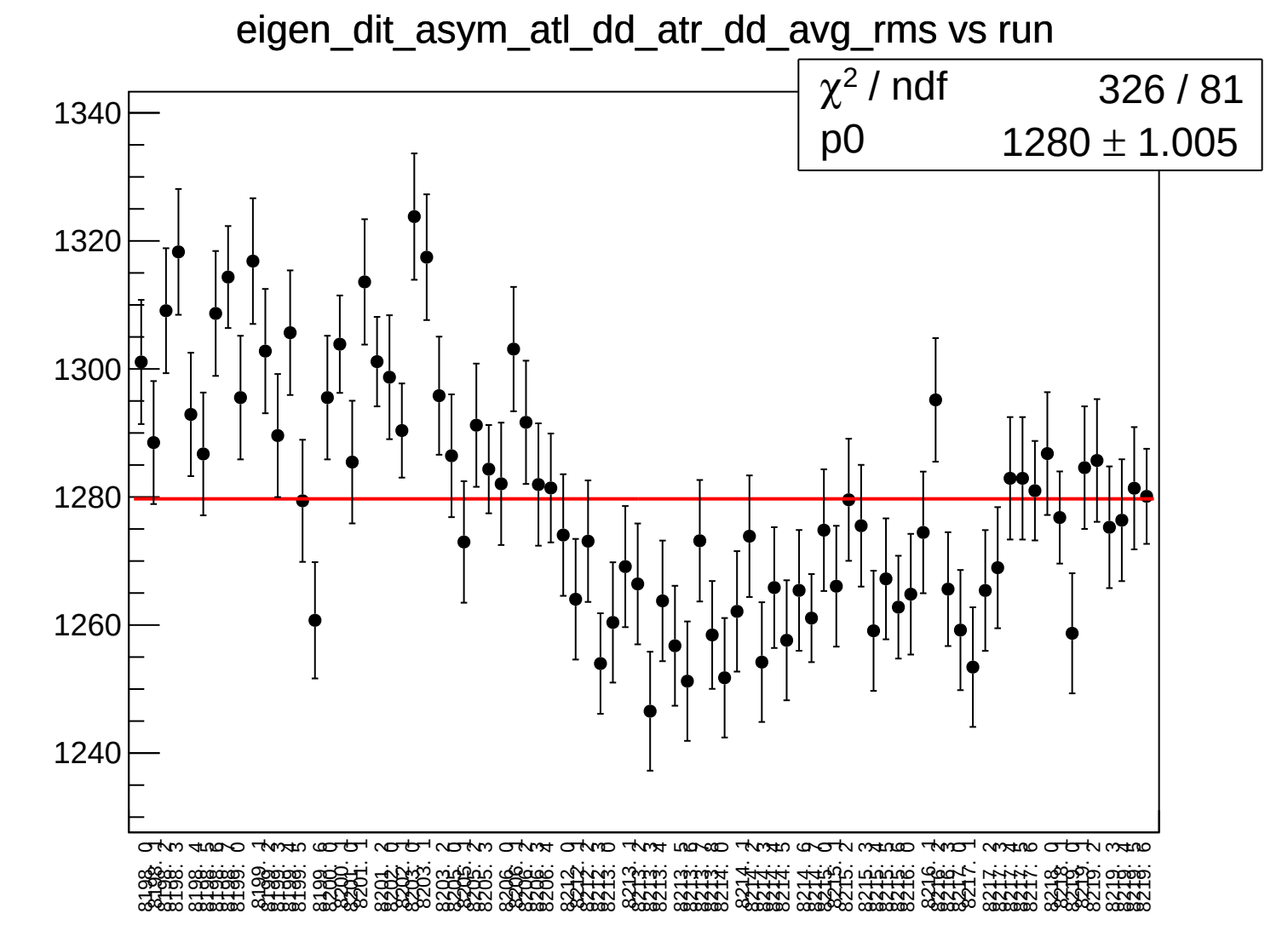

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 326 / 81
p0 1280 ± 1.005
1340
1320
1300
1280
1260
1240

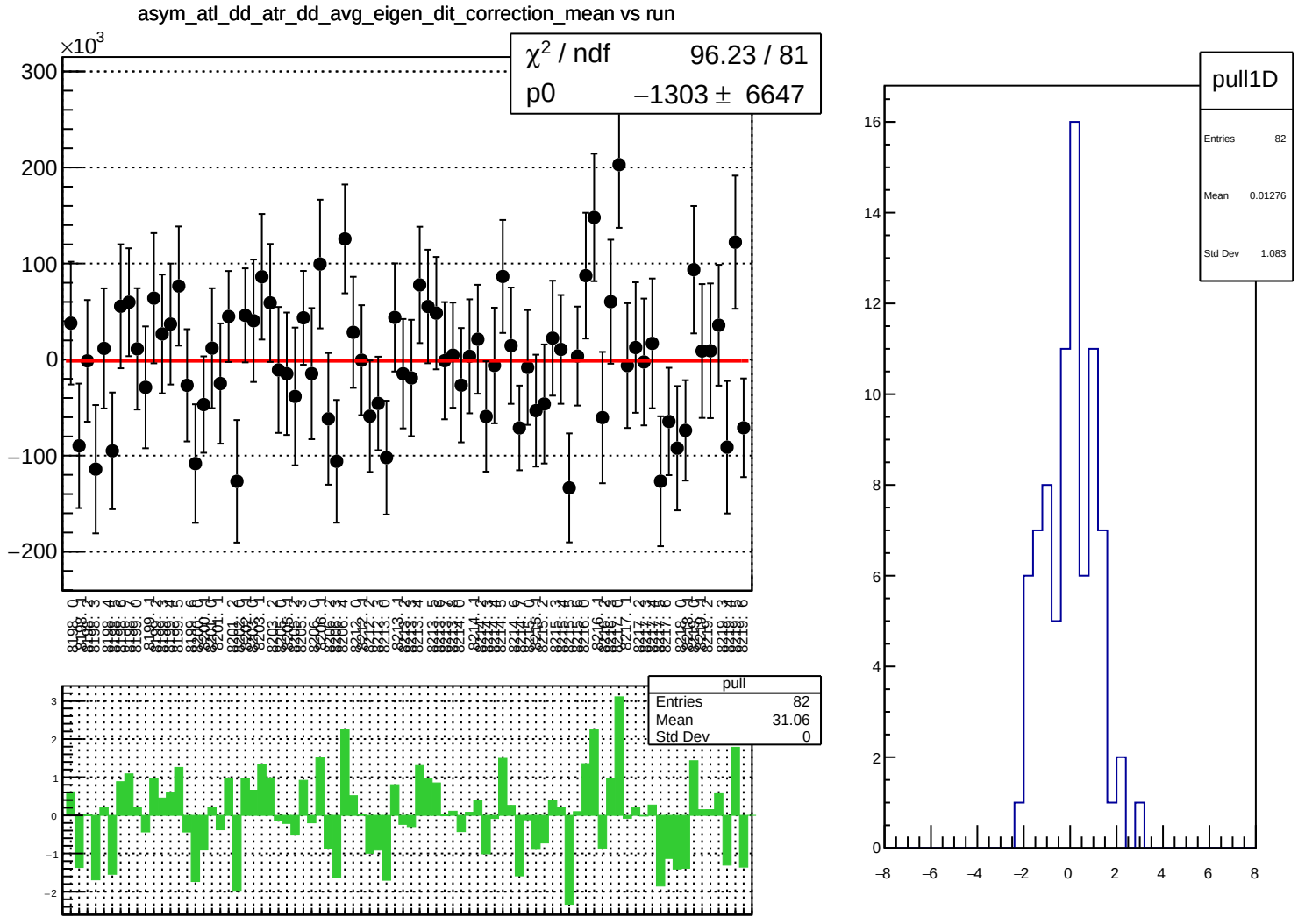

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.23 / 81
p0 −1303 ± 6647
pull
Entries 82
Mean 31.06
Std Dev 0
pull1D
Entries 82
Mean 0.01276
Std Dev 1.083

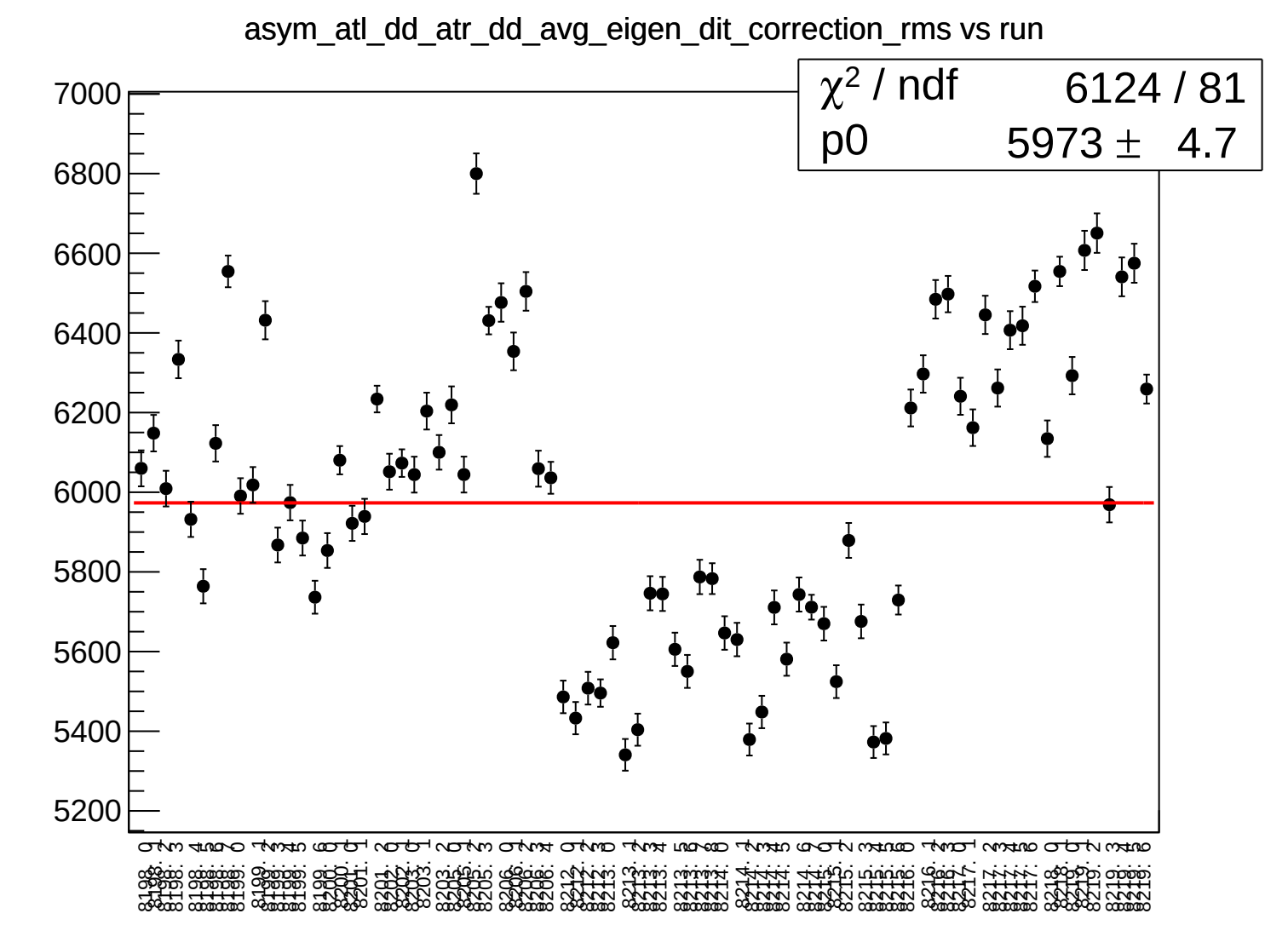

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 6124 / 81
p0 5973 ± 4.7
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

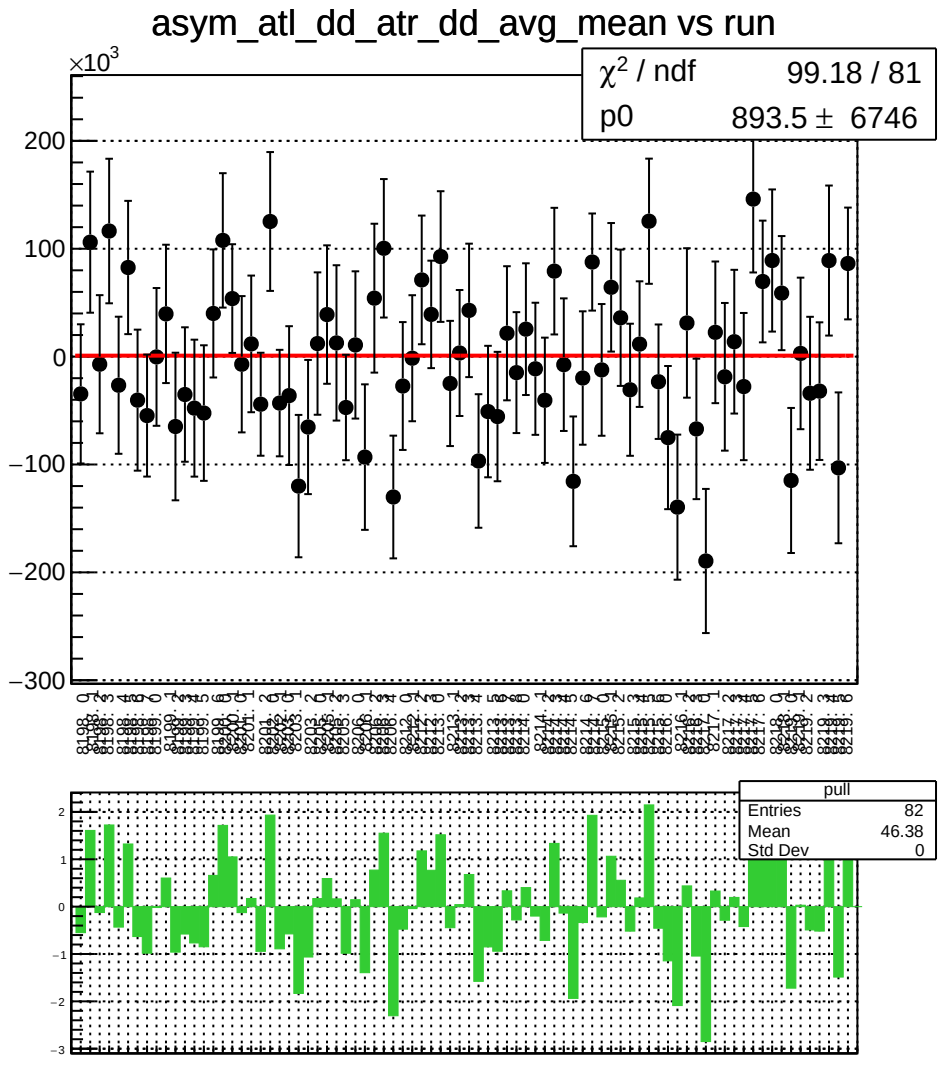

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 90 / 81
p0 −422.4 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 168.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

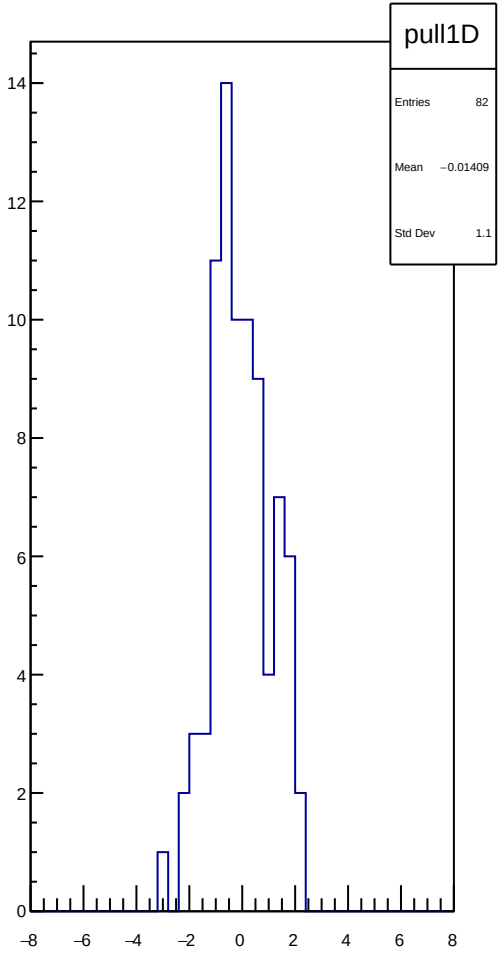

pull1D
Entries 82
Mean −0.007473
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

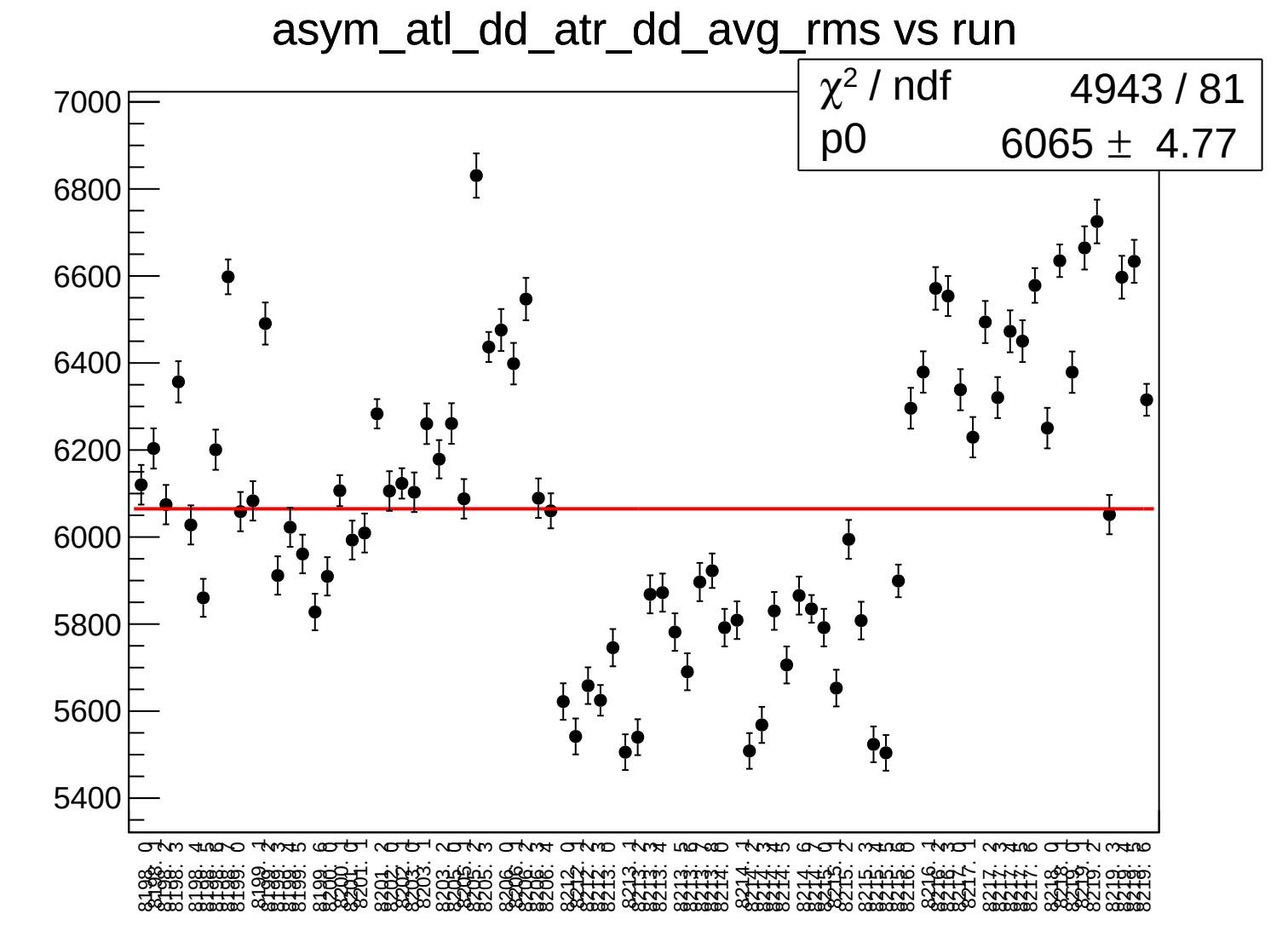

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 326 / 81
p0 1280 ± 1.005
1340
1320
1300
1280
1260
1240

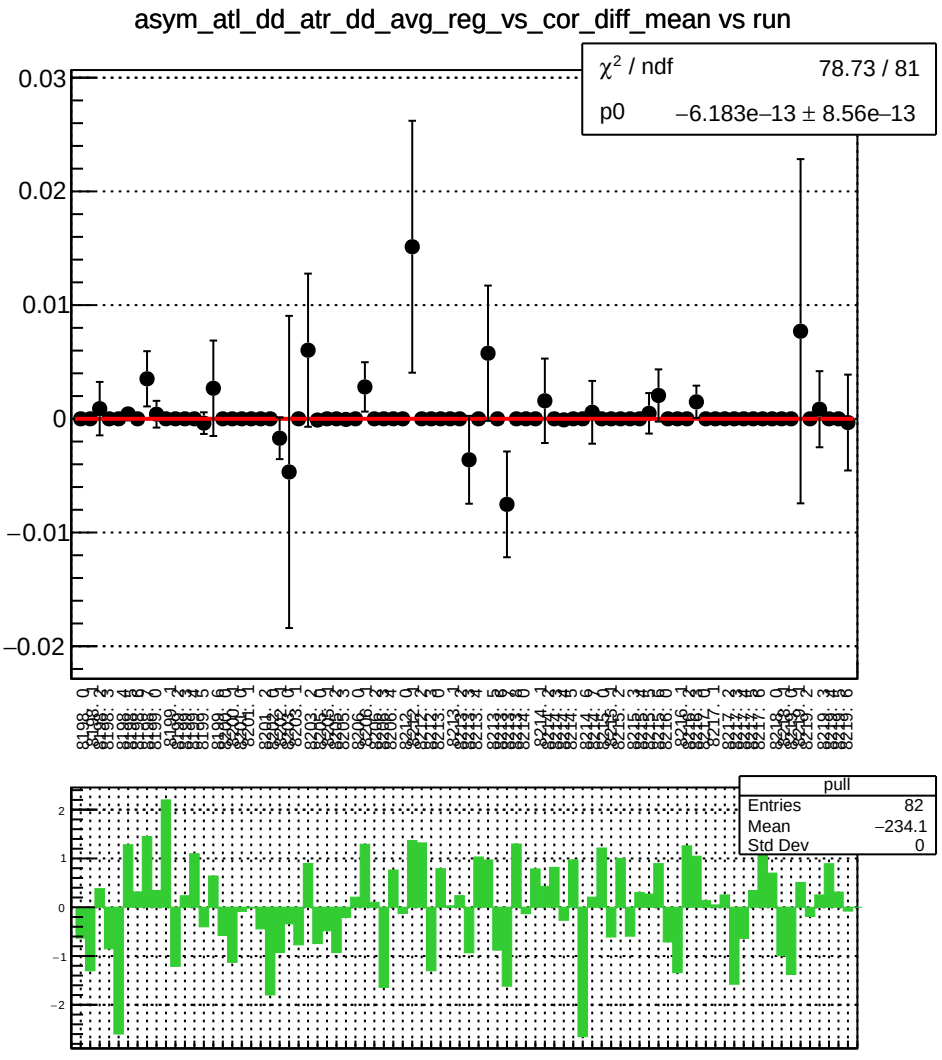

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.23 / 81
p0 −1303 ± 6647
pull
Entries 82
Mean 31.06
Std Dev 0
pull1D
Entries 82
Mean 0.01276
Std Dev 1.083

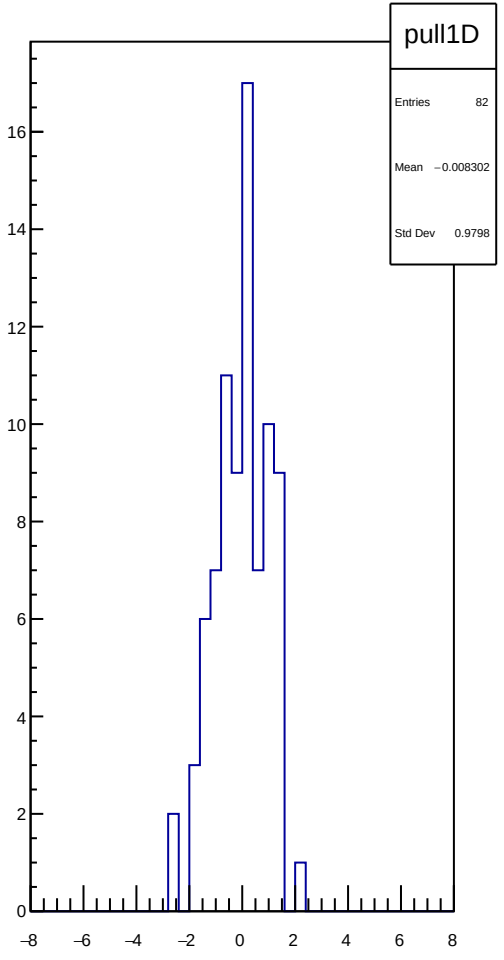

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6124 / 81
p0 5973 ± 4.7
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

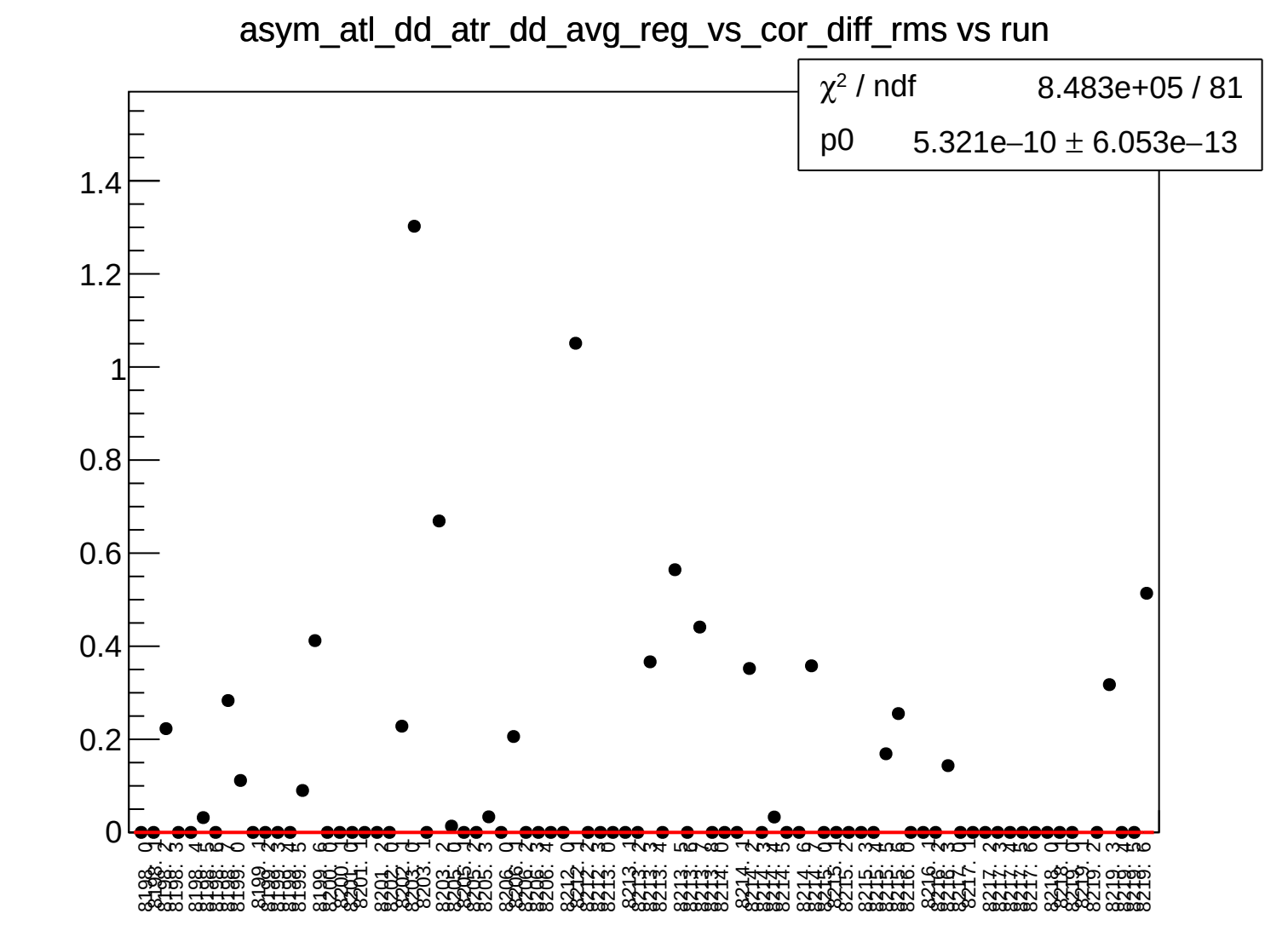

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 99.18 / 81
p0 893.5 ± 6746
200
100
0
−100
−200
−300
pull
Entries 82
Mean 46.38
Std Dev 0
2
1
0
−1
−2
−3

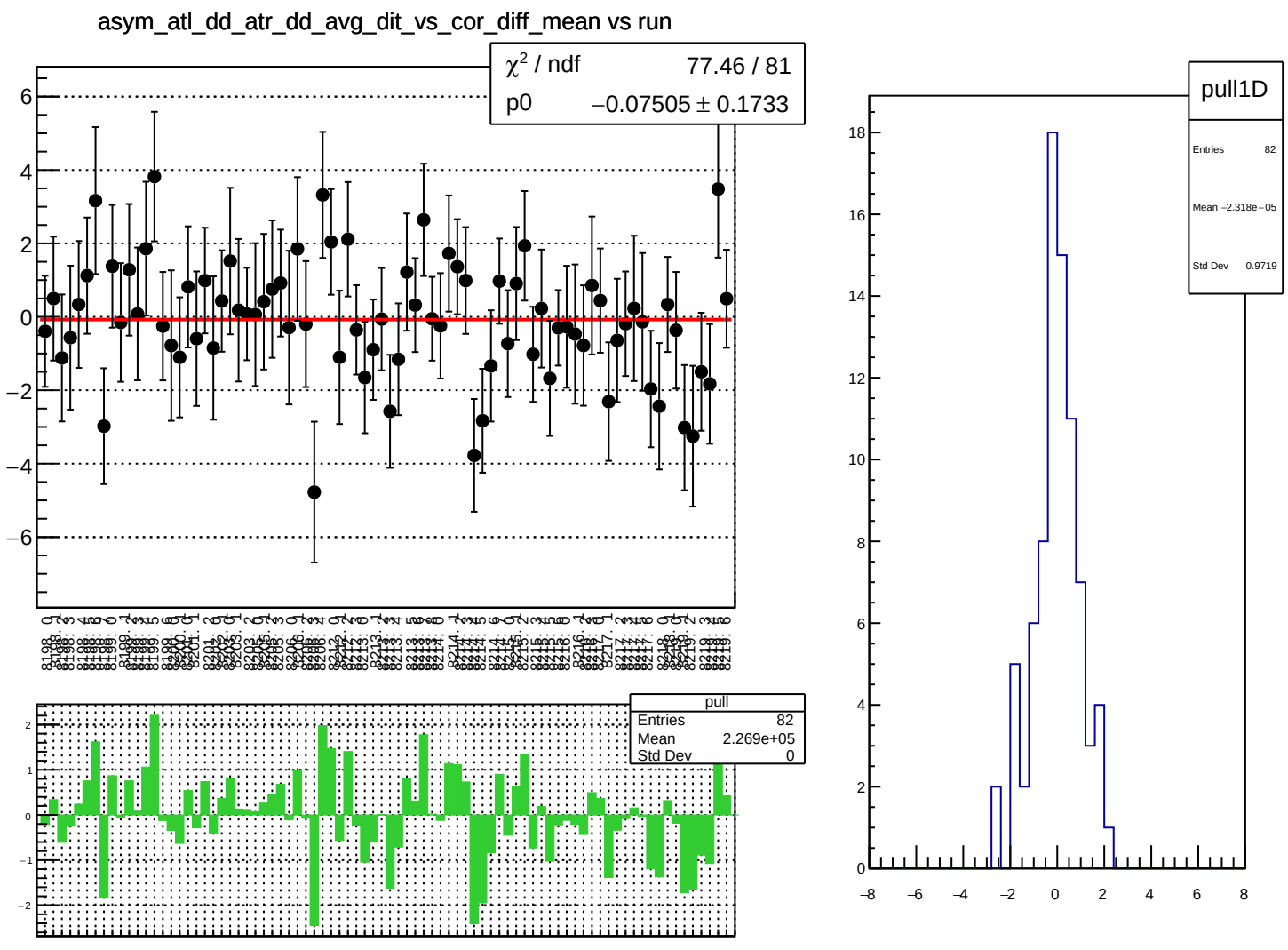

pull1D
Entries 82
Mean −0.01409
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

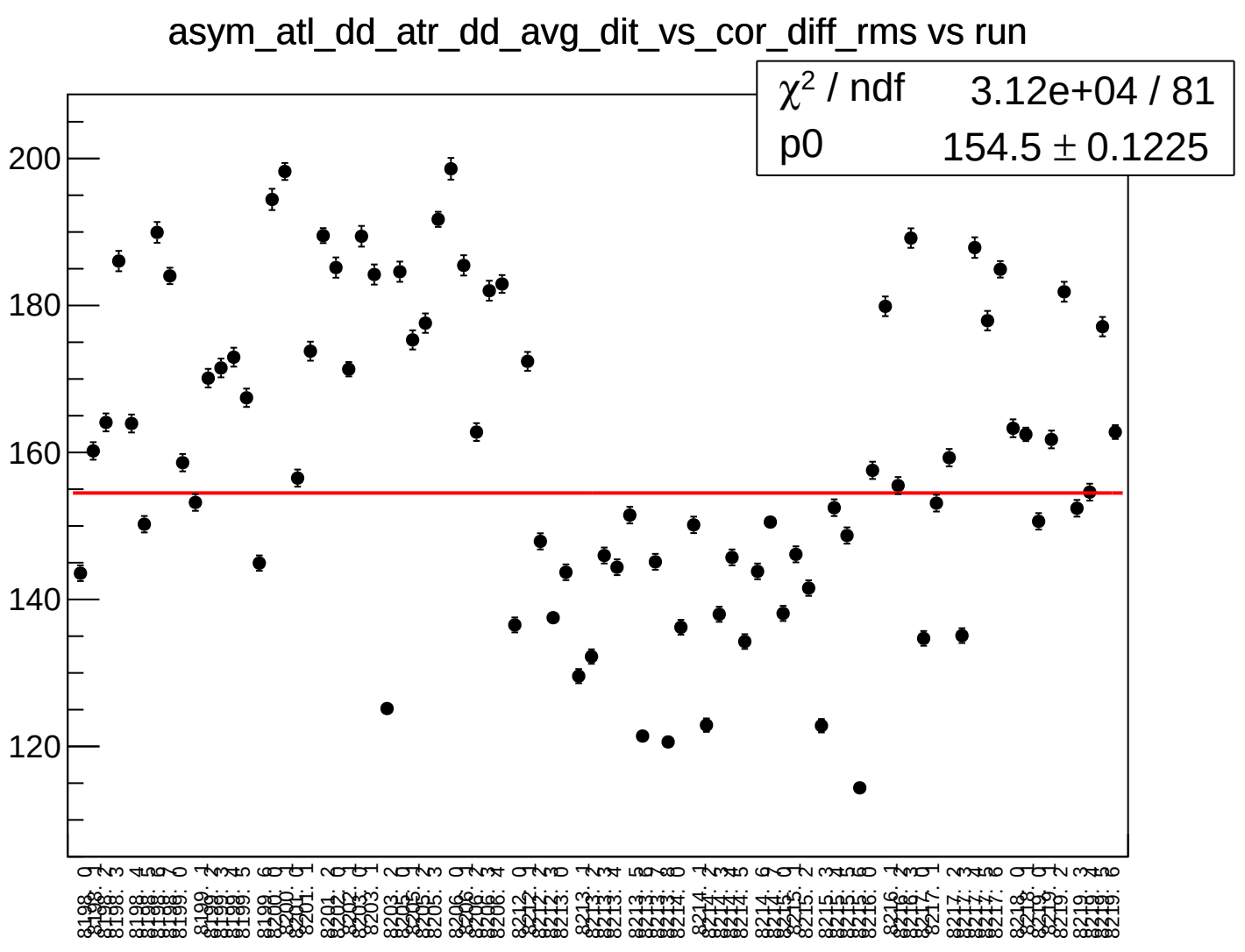

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4943 / 81
p0 6065 ± 4.77
7000
6800
6600
6400
6200
6000
5800
5600
5400

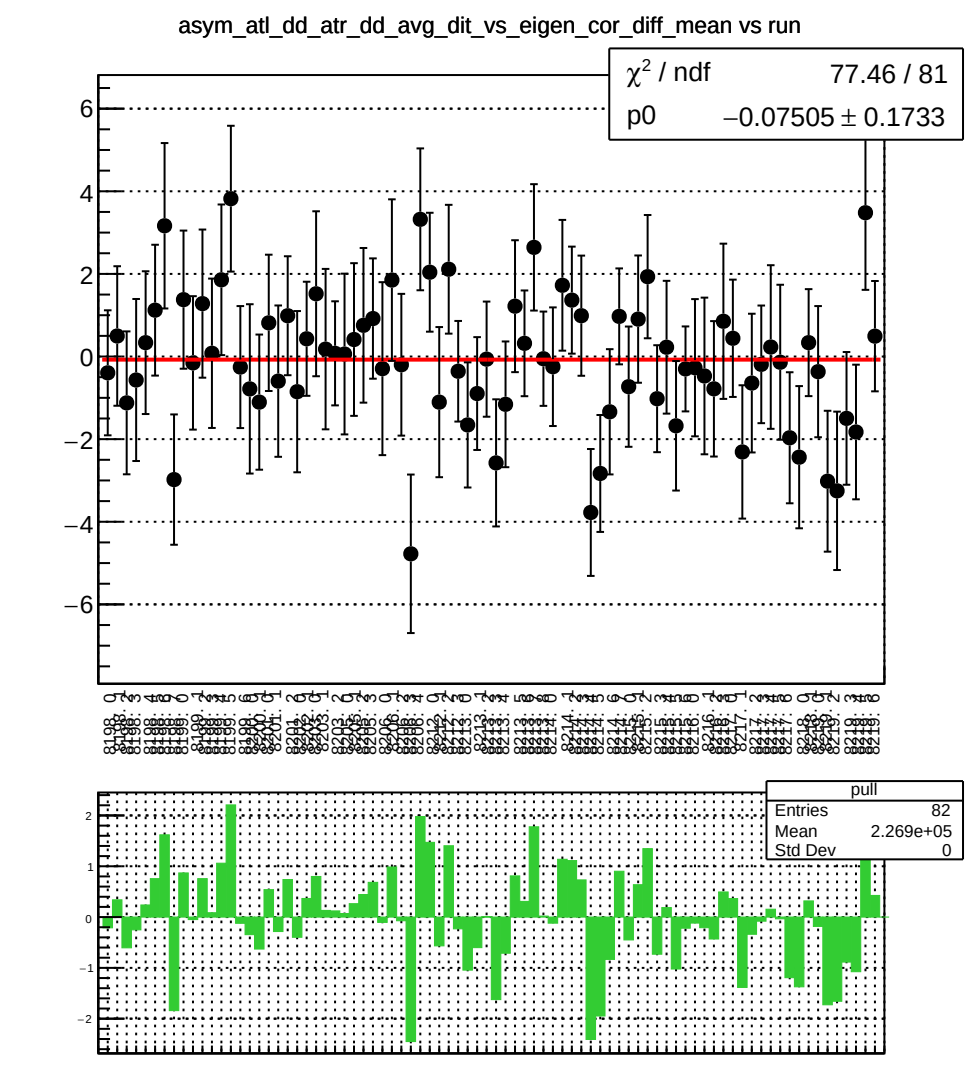

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.73 / 81
p0 −6.183e−13 ± 8.56e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean −234.1
Std Dev 0
2
1
0
−1
−2

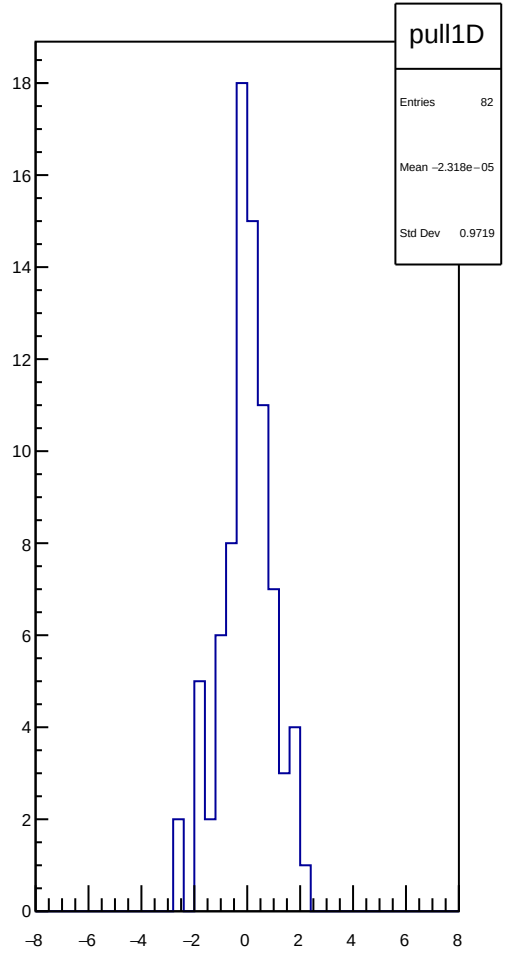

pull1D
Entries 82
Mean −0.008302
Std Dev 0.9798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

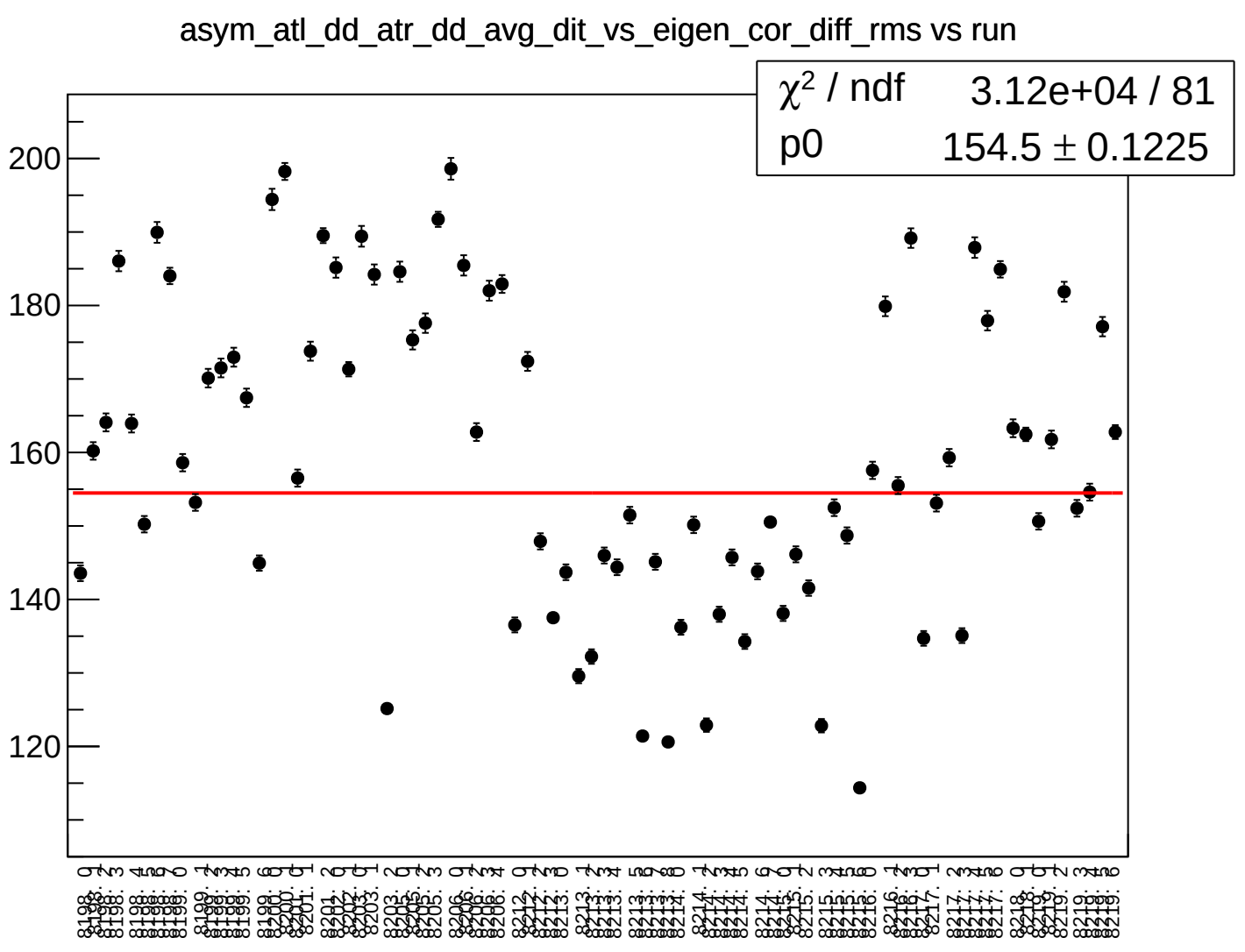

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.483e+05 / 81
p0 5.321e−10 ± 6.053e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

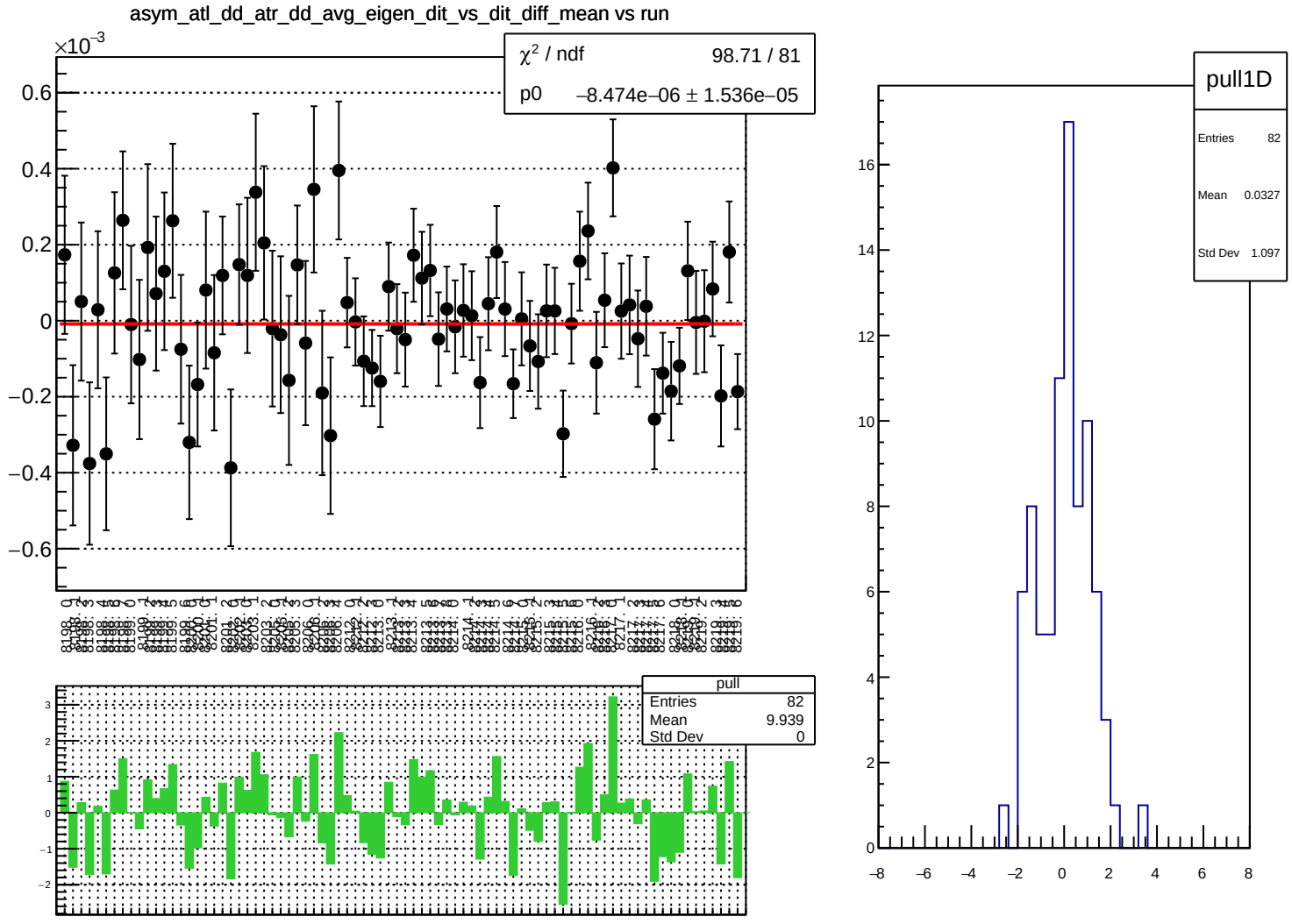

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.46 / 81
p0 −0.07505 ± 0.1733
pull
Entries 82
Mean 2.269e+05
Std Dev 0
pull1D
Entries 82
Mean −2.318e−05
Std Dev 0.9719

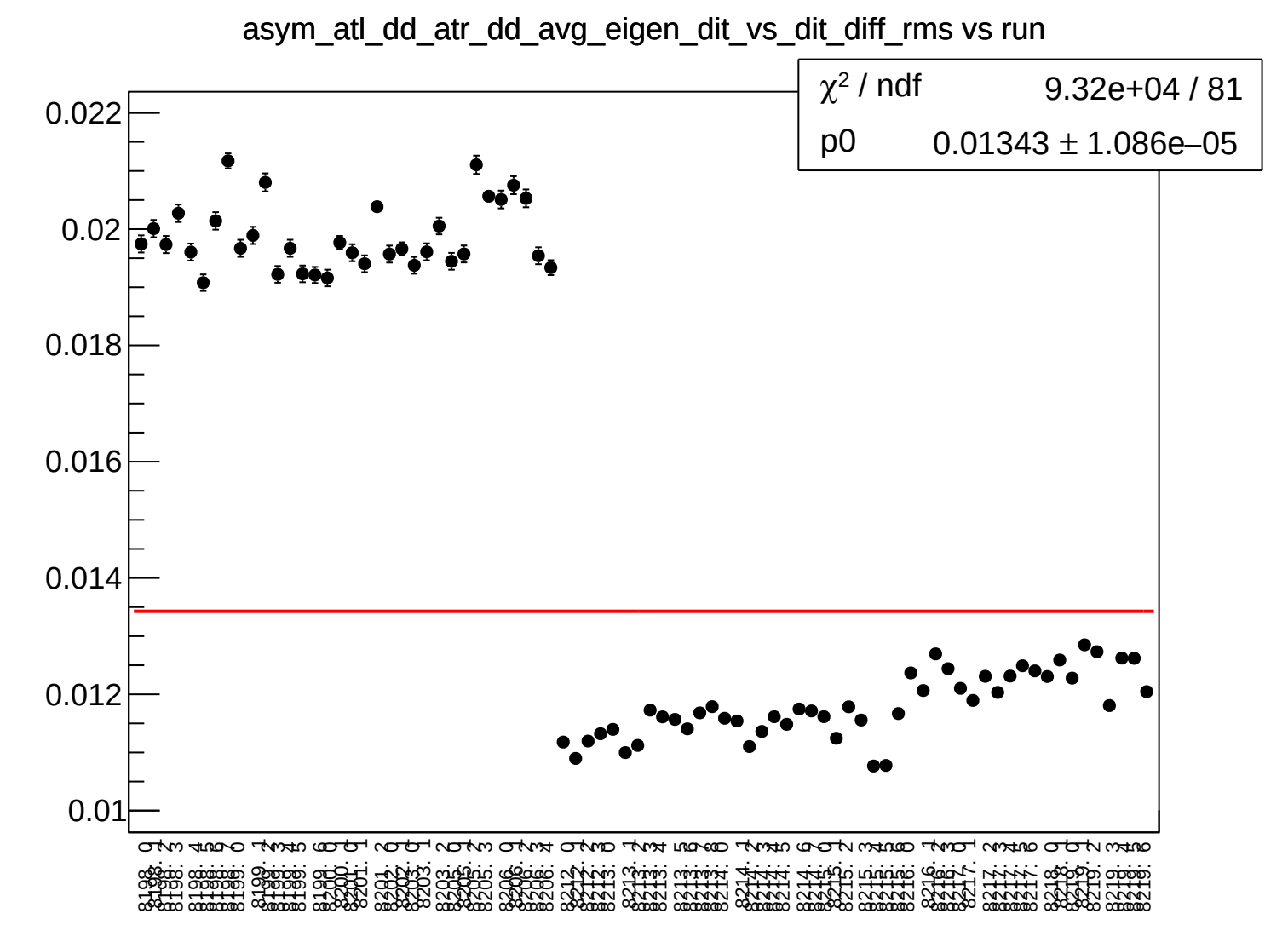

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.12e+04 / 81
p0 154.5 ± 0.1225
200
180
160
140
120

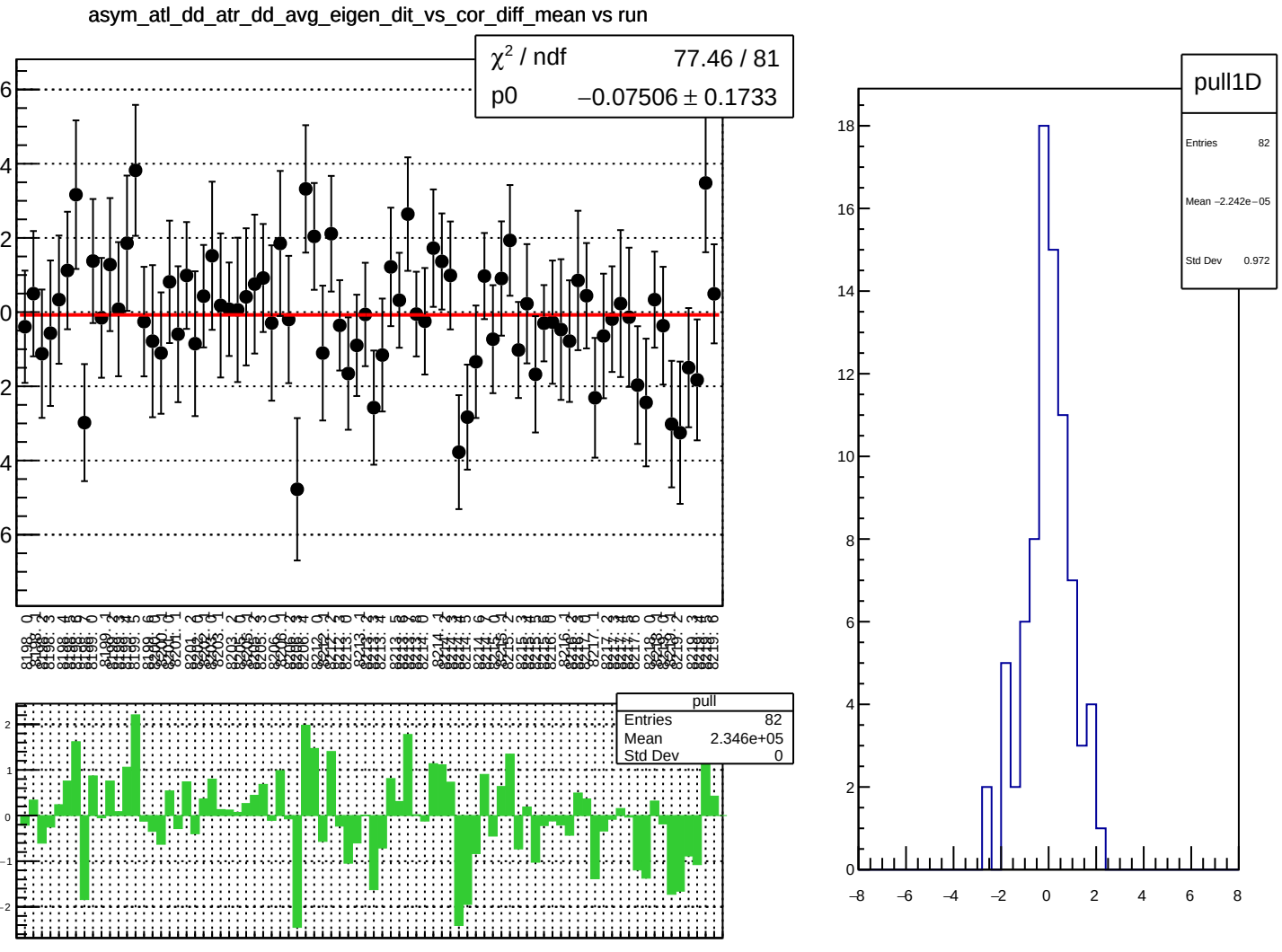

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.46 / 81
p0 −0.07505 ± 0.1733
pull
Entries 82
Mean 2.269e+05
Std Dev 0

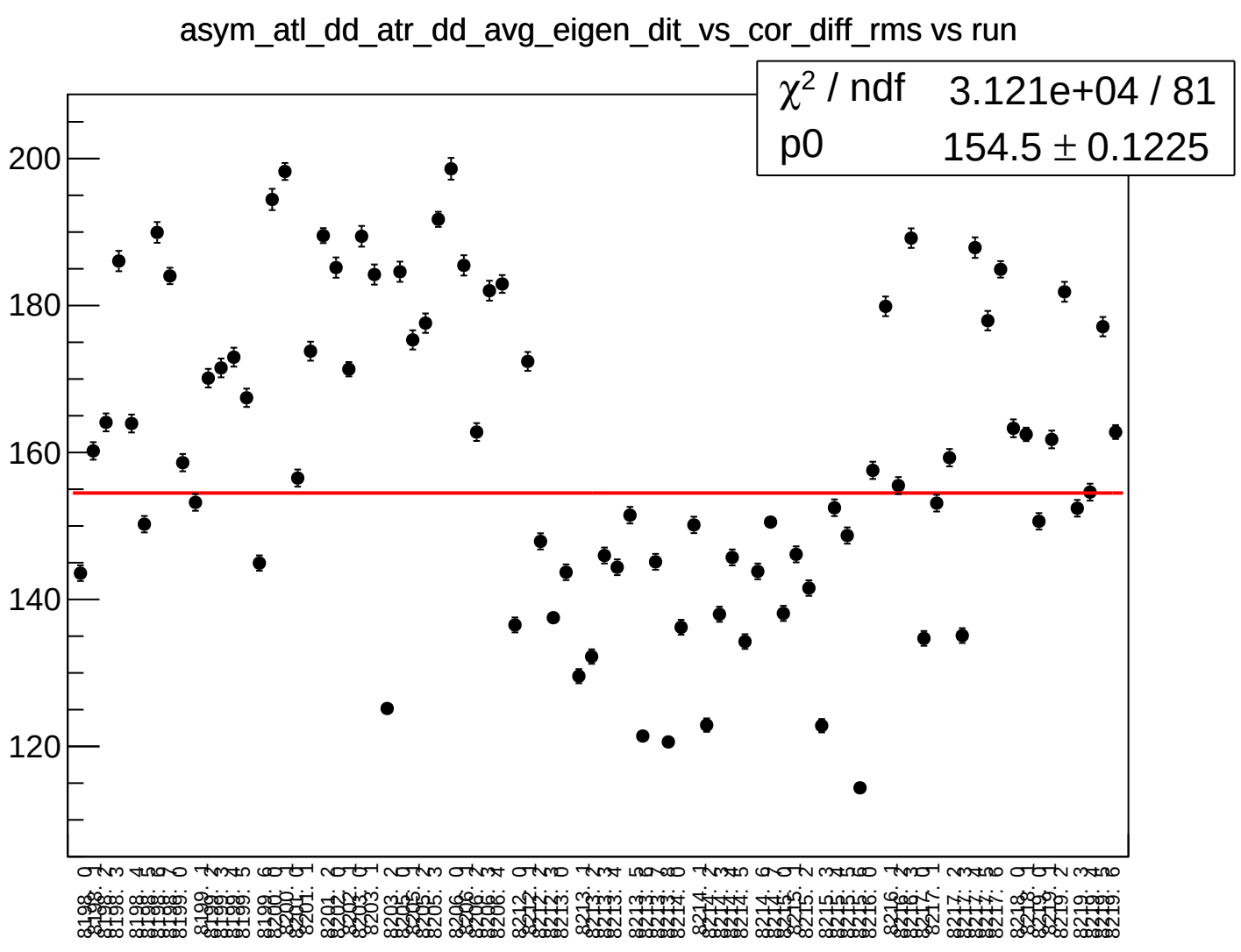

pull1D
Entries 82
Mean −2.318e−05
Std Dev 0.9719

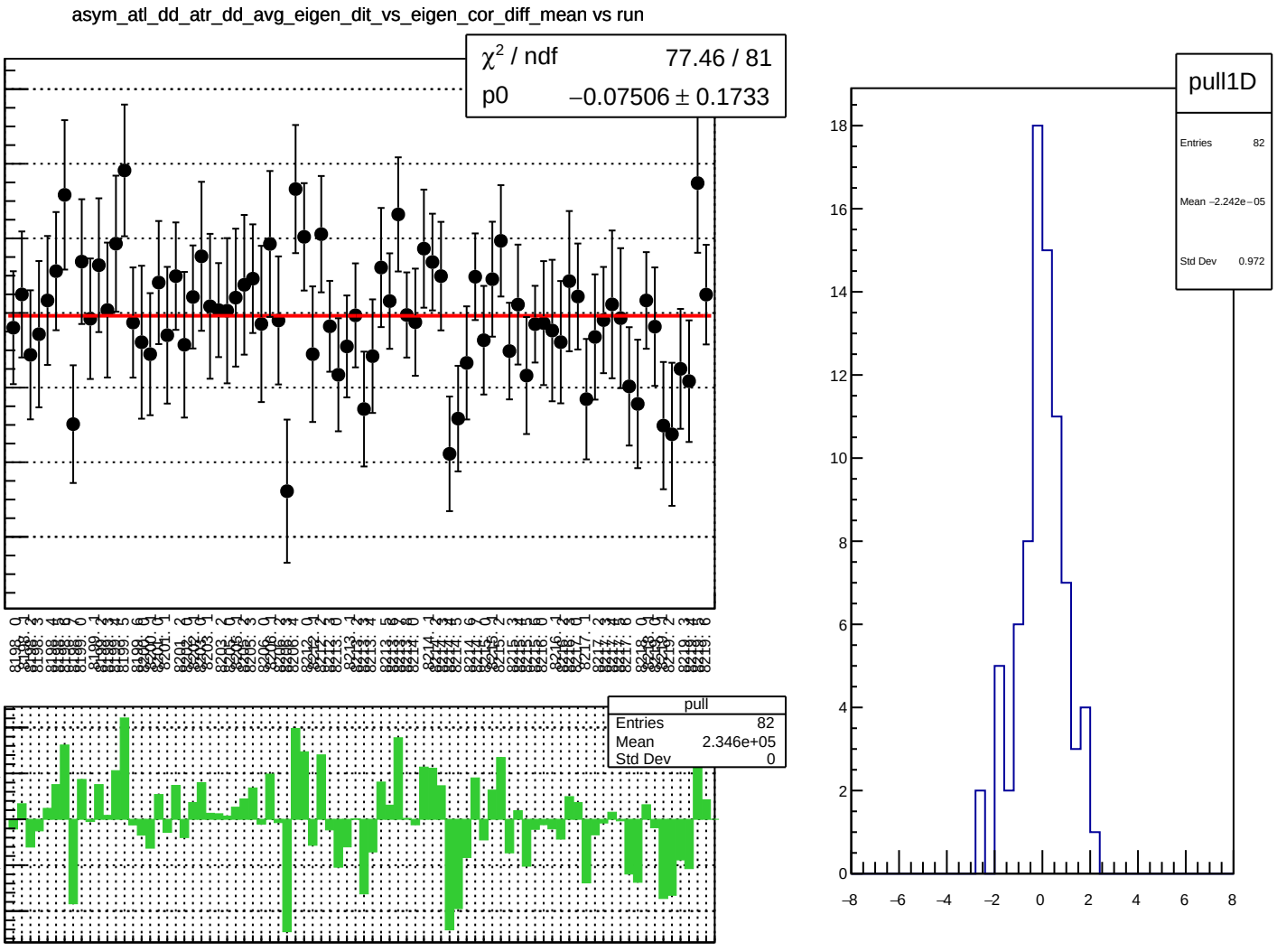

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.12e+04 / 81
p0 154.5 ± 0.1225
200
180
160
140
120

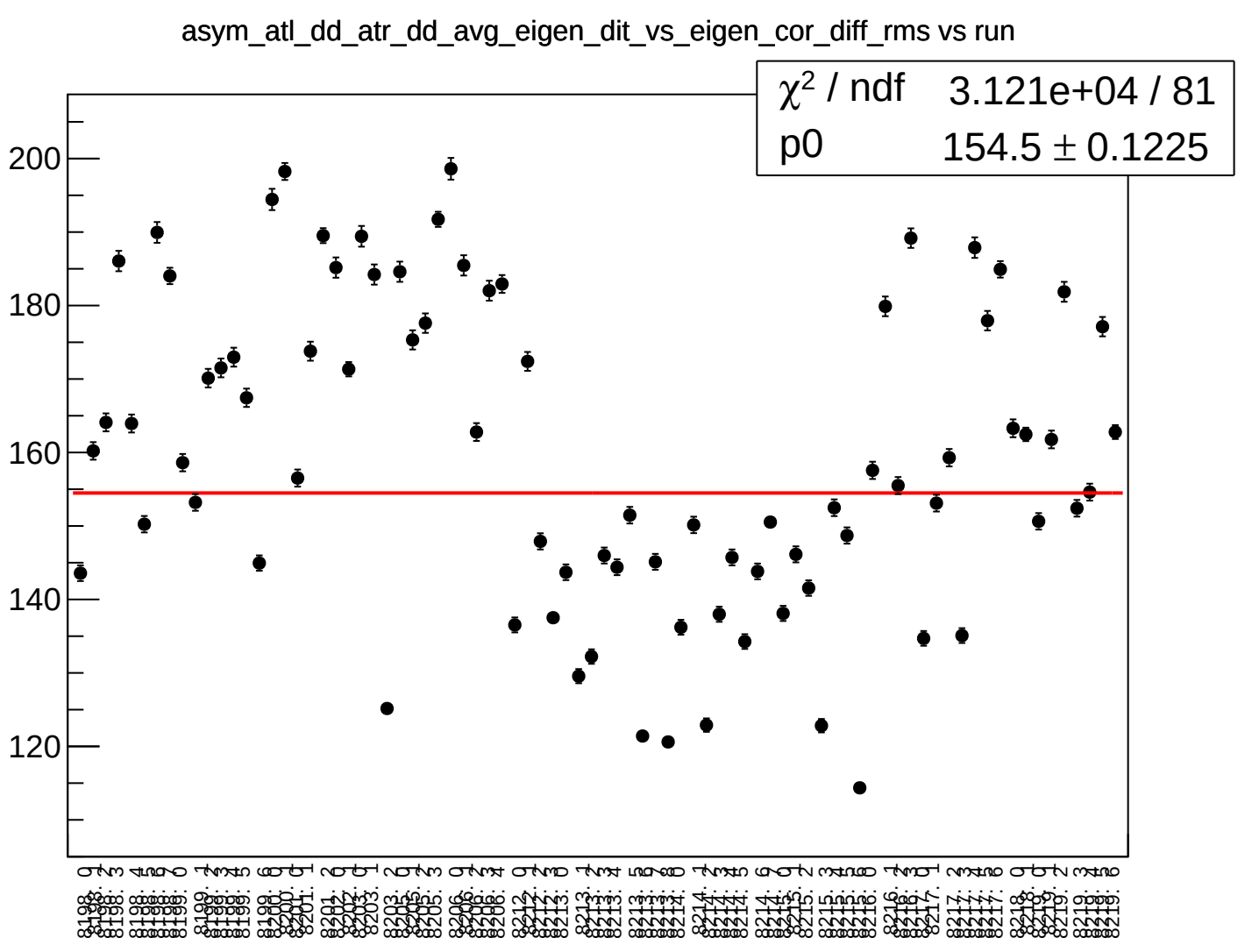

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.71 / 81
p0 −8.474e−06 ± 1.536e−05
pull
Entries 82
Mean 9.939
Std Dev 0
pull1D
Entries 82
Mean 0.0327
Std Dev 1.097

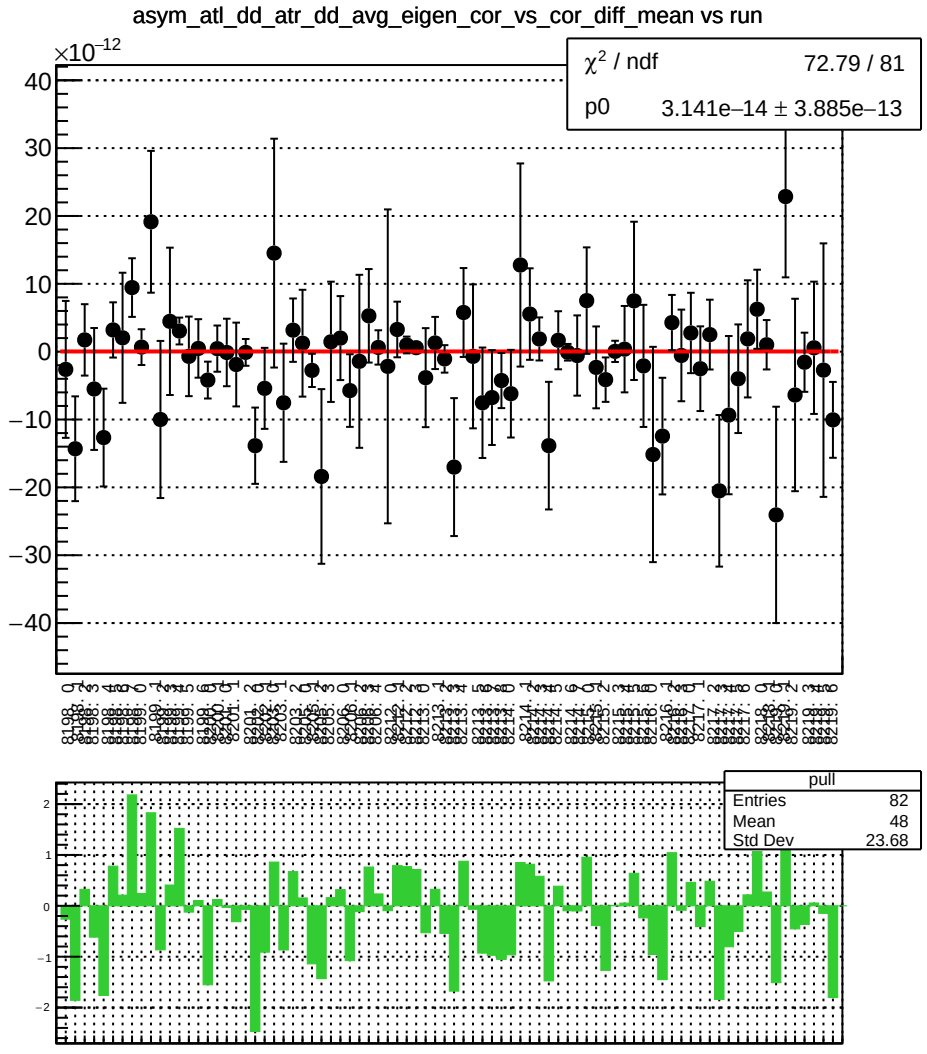

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.32e+04 / 81
p0 0.01343 ± 1.086e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

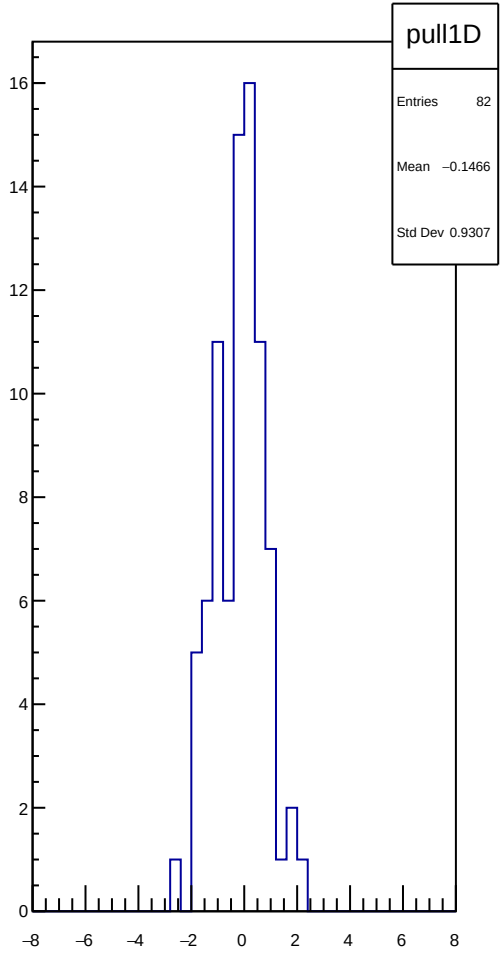

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.46 / 81
p0 −0.07506 ± 0.1733
pull
Entries 82
Mean 2.346e+05
Std Dev 0
pull1D
Entries 82
Mean −2.242e−05
Std Dev 0.972

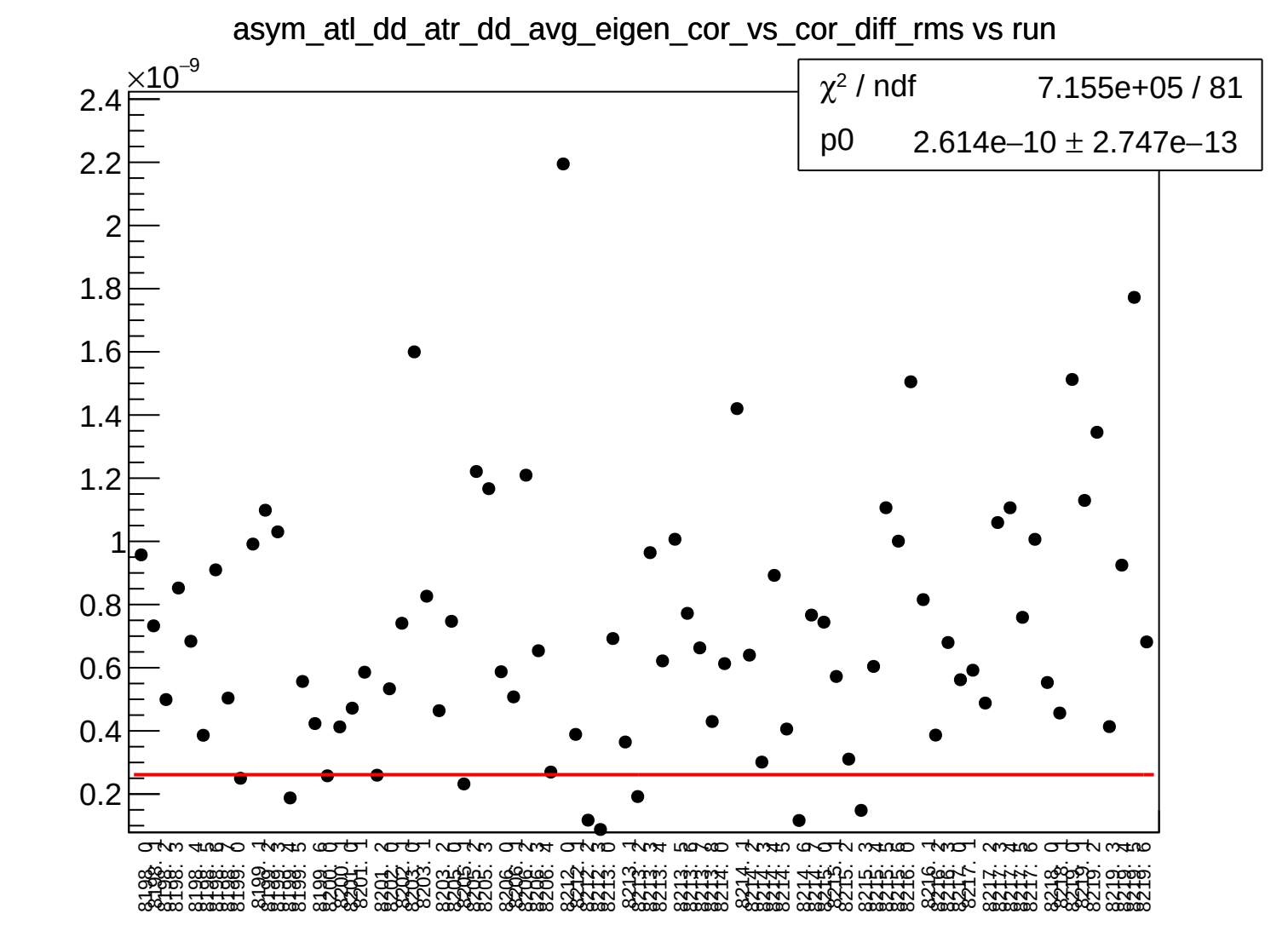

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.121e+04 / 81
p0 154.5 ± 0.1225
200
180
160
140
120

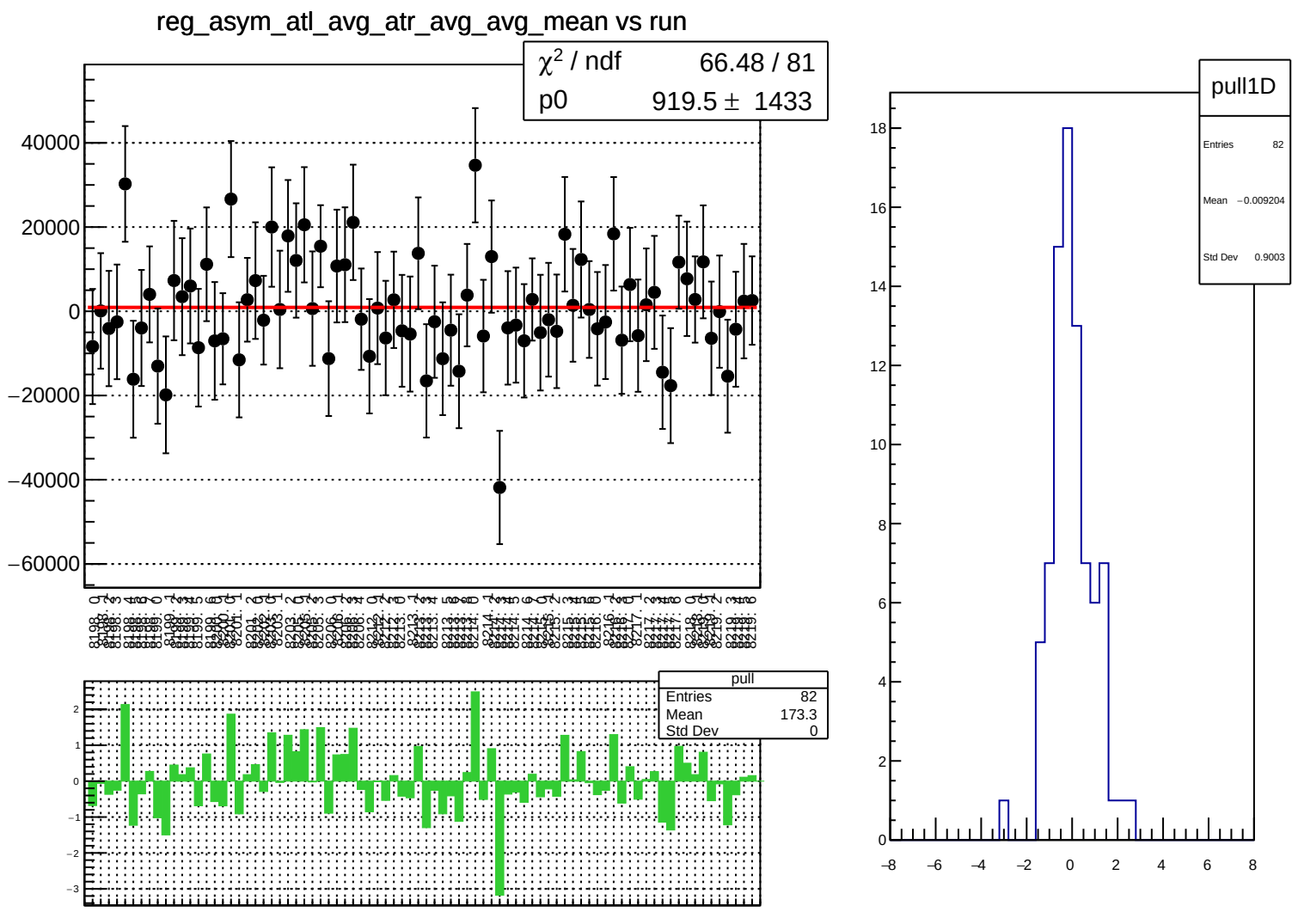

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.46 / 81
p0 −0.07506 ± 0.1733
pull
Entries 82
Mean 2.346e+05
Std Dev 0
pull1D
Entries 82
Mean −2.242e−05
Std Dev 0.972

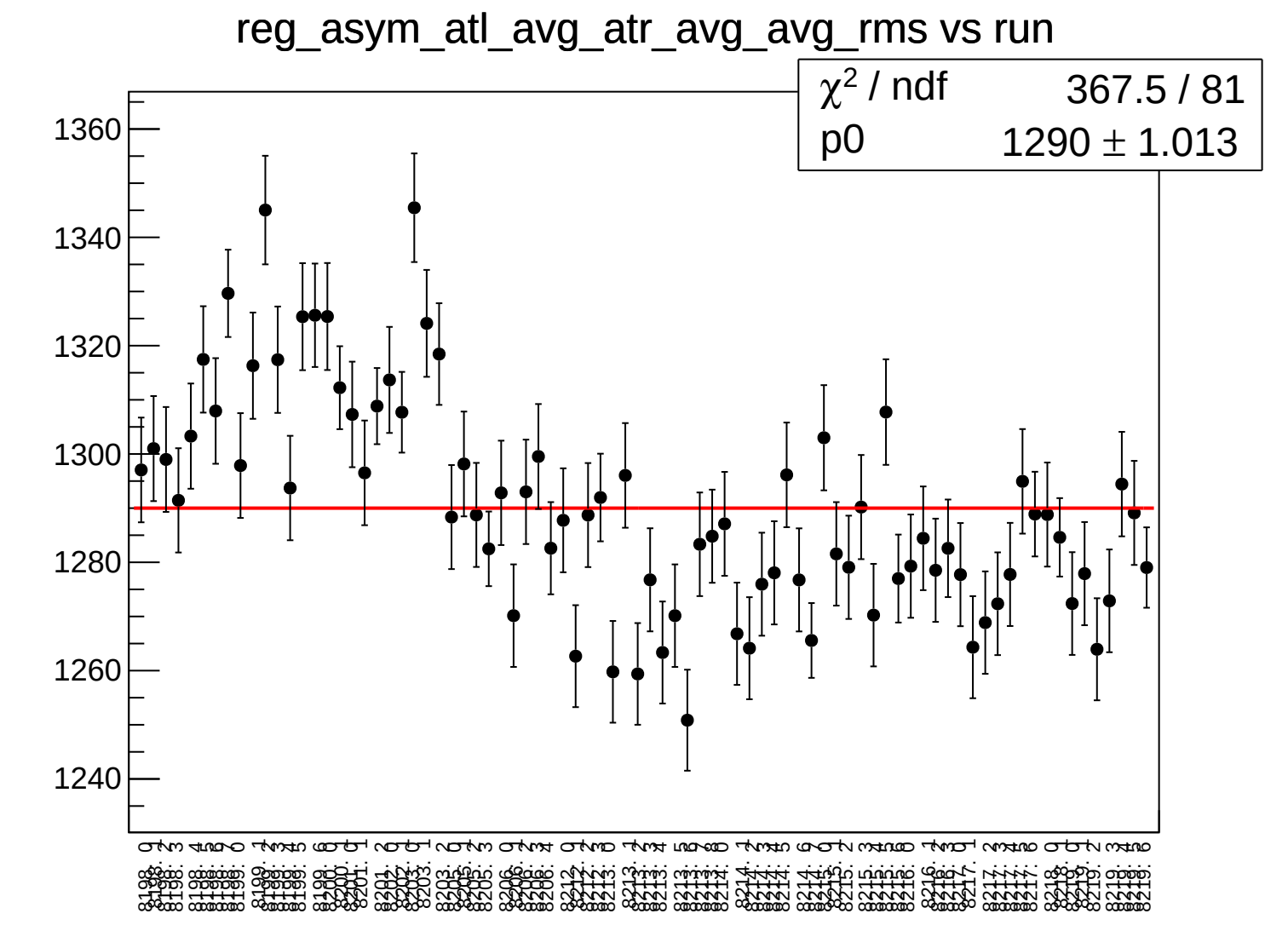

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.121e+04 / 81
p0 154.5 ± 0.1225
200
180
160
140
120

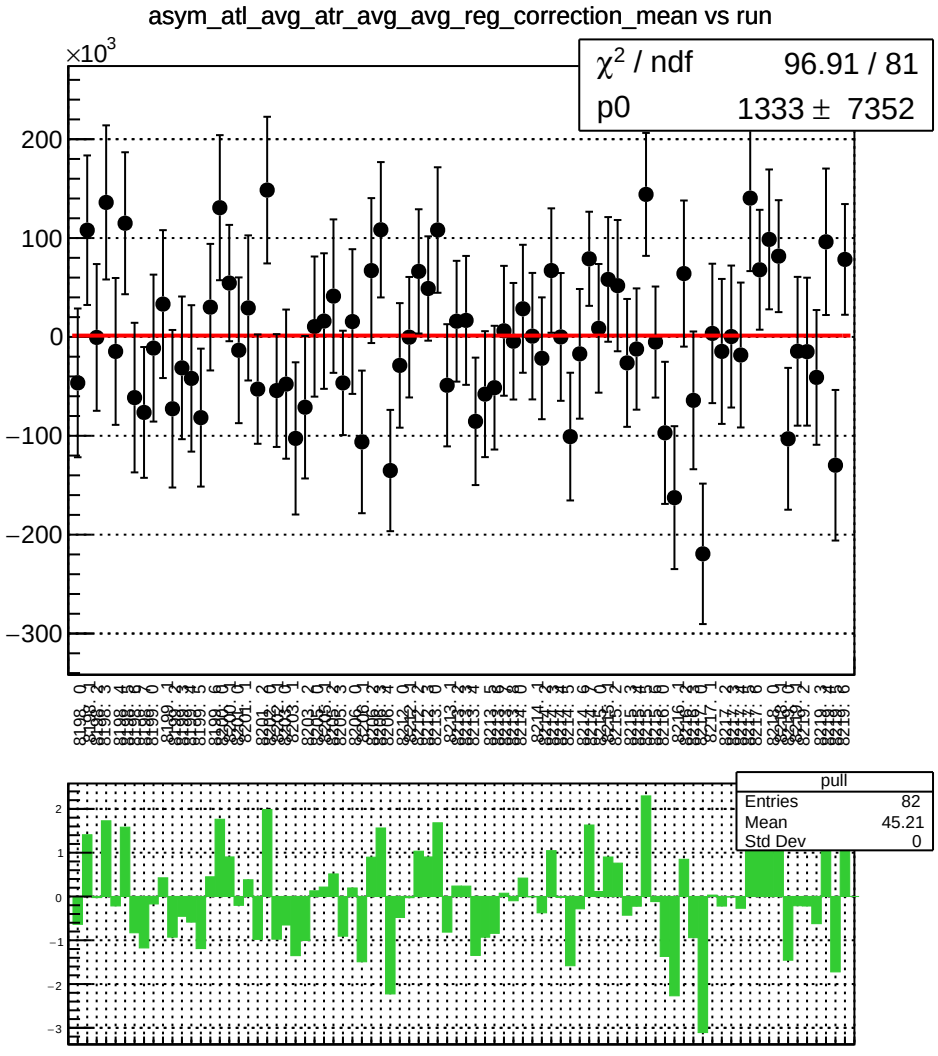

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.79 / 81
p0 3.141e−14 ± 3.885e−13
pull
Entries 82
Mean 48
Std Dev 23.68

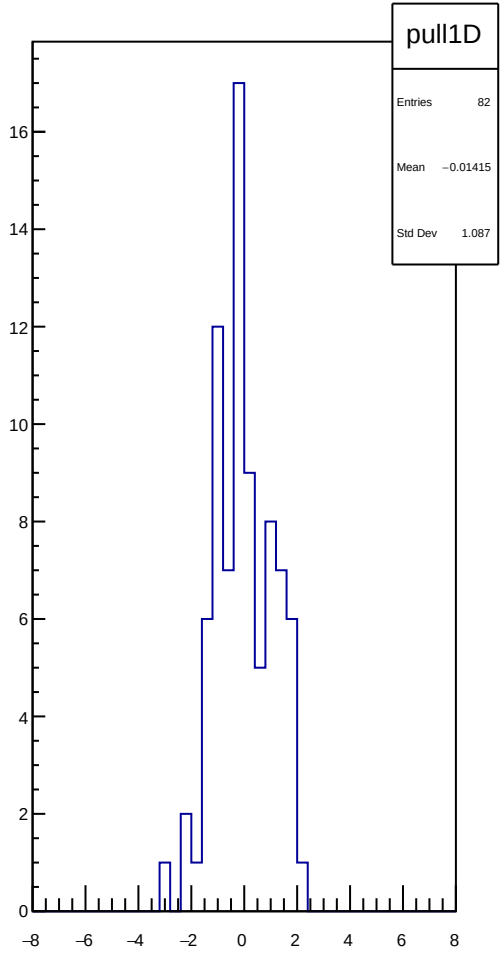

pull1D
Entries 82
Mean −0.1466
Std Dev 0.9307

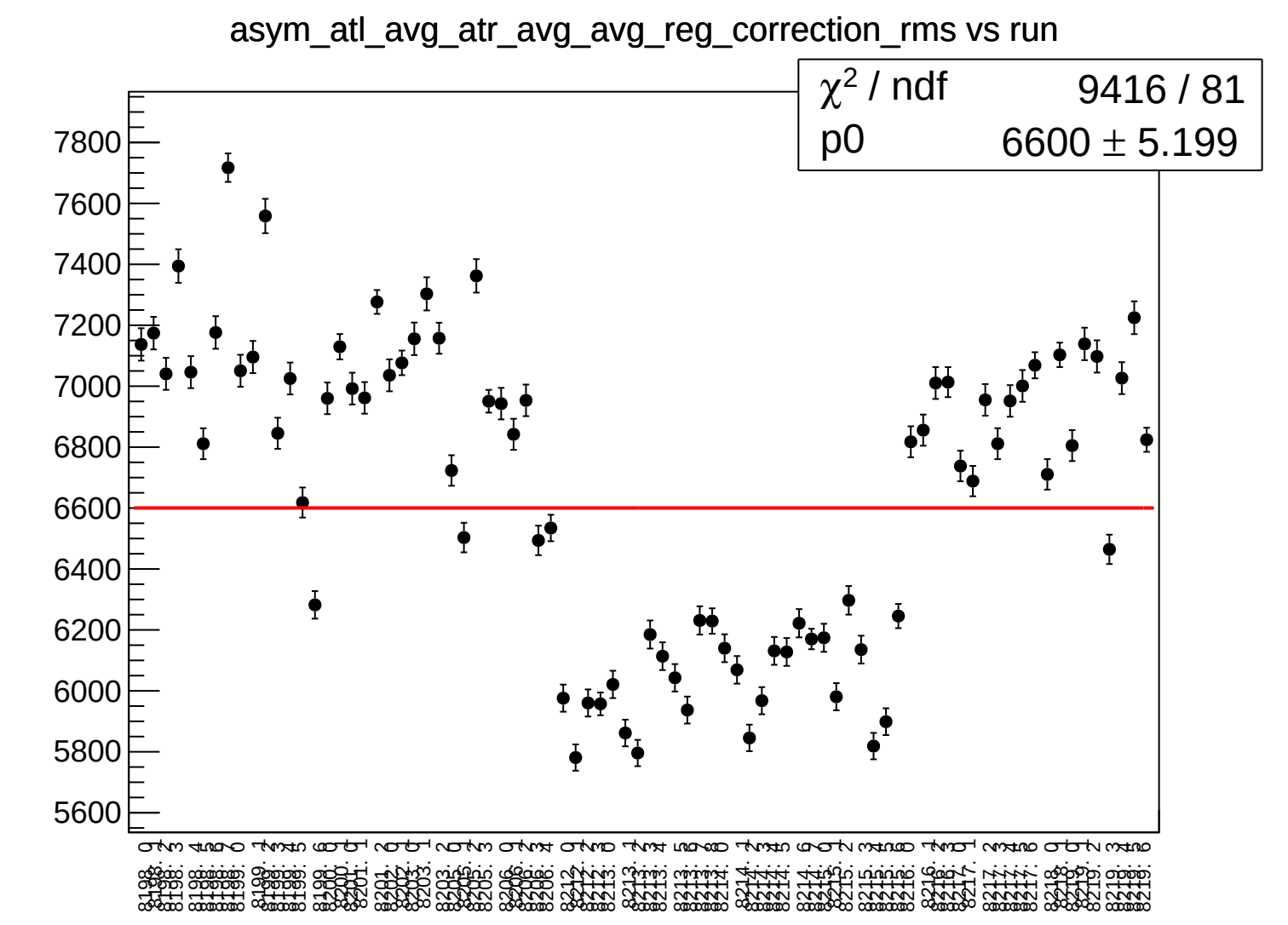

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.155e+05 / 81
p0 2.614e−10 ± 2.747e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

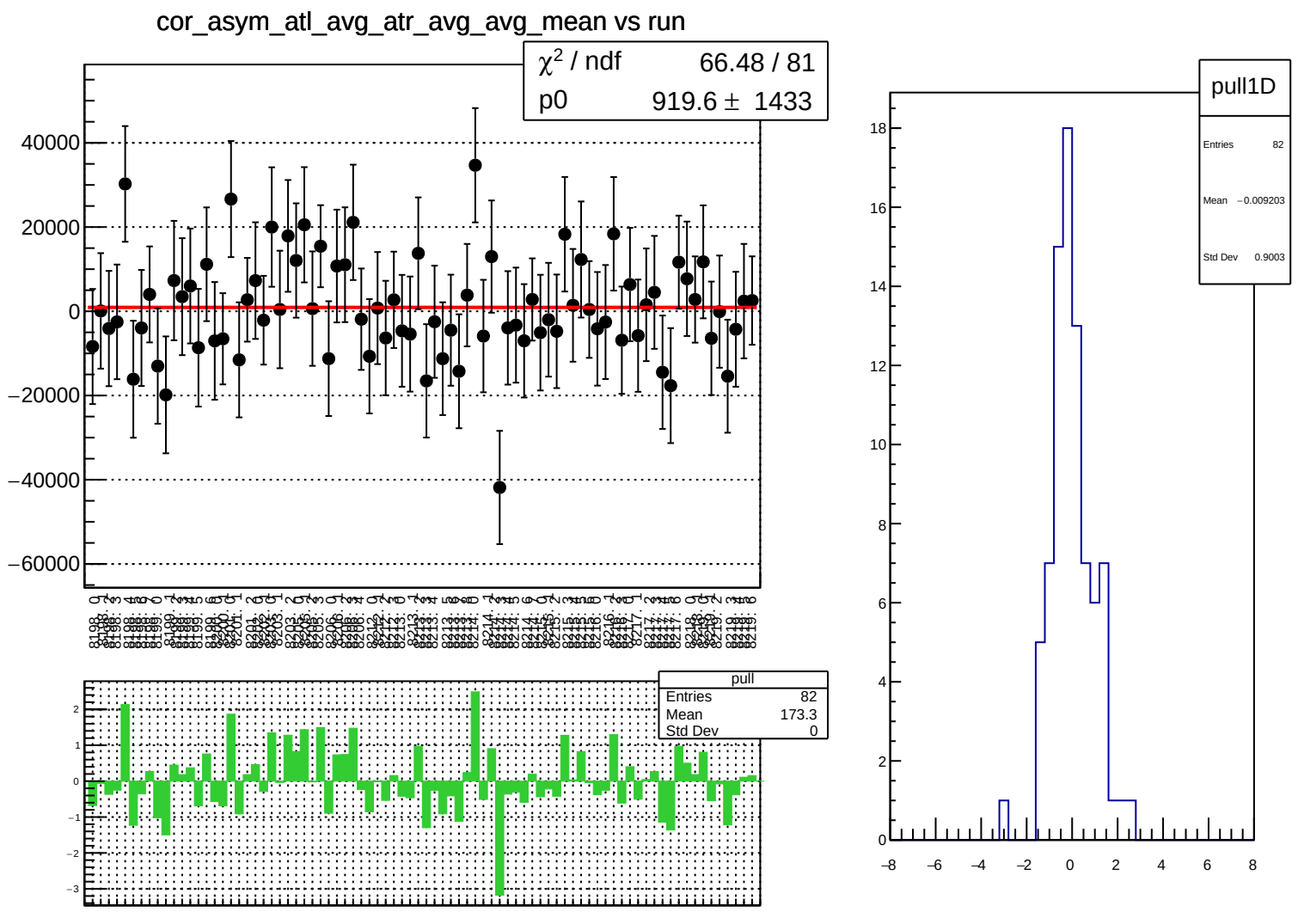

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 66.48 / 81
p0 919.5 ± 1433
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 173.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.009204
Std Dev 0.9003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

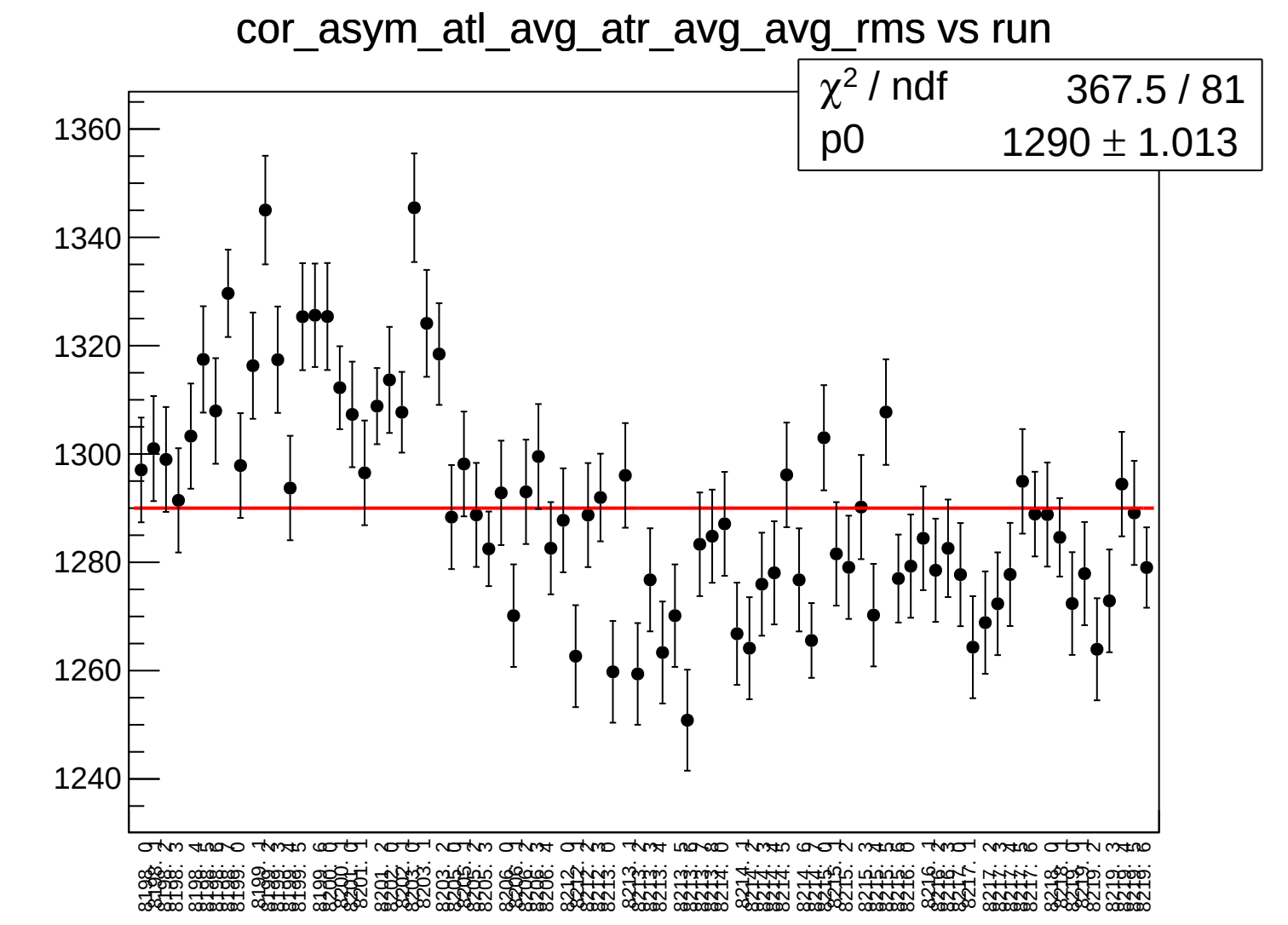

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 367.5 / 81
p0 1290 ± 1.013
1360
1340
1320
1300
1280
1260
1240

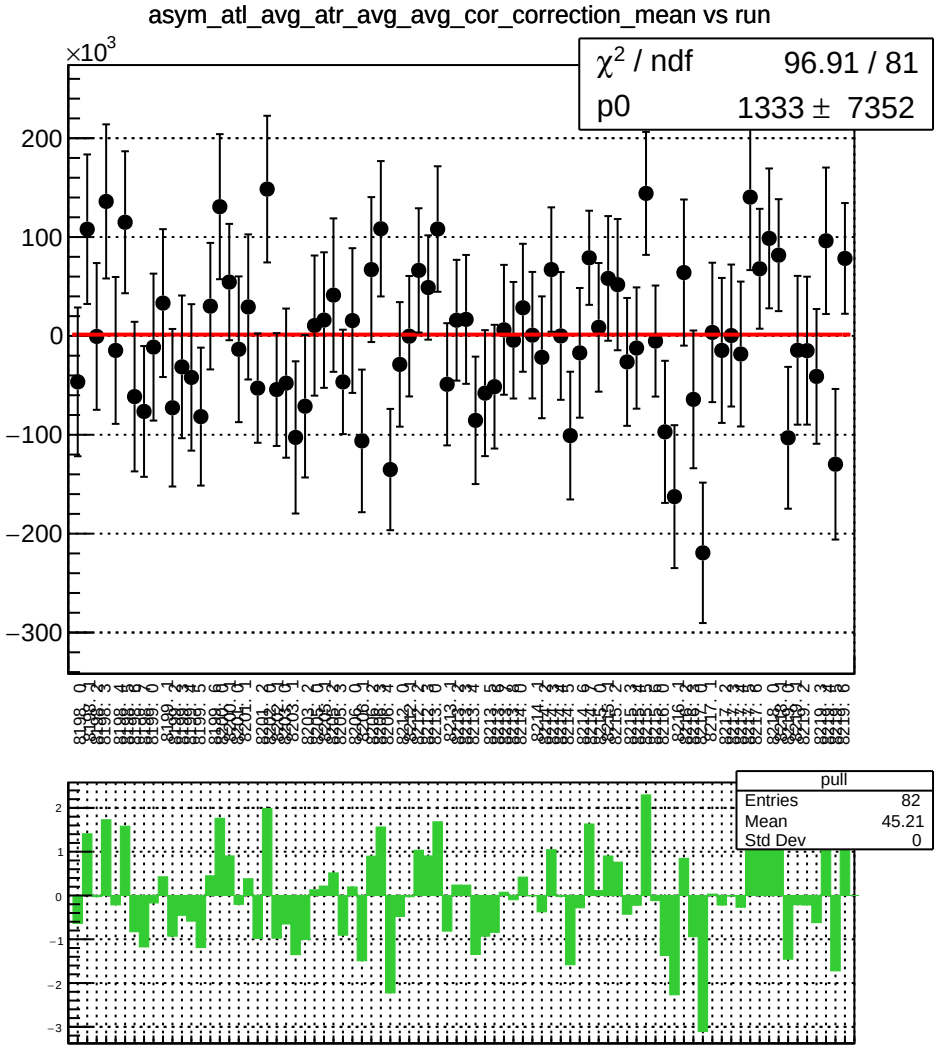

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.91 / 81
p0 1333 ± 7352
200
100
0
−100
−200
−300
pull
Entries 82
Mean 45.21
Std Dev 0
2
1
0
−1
−2
−3

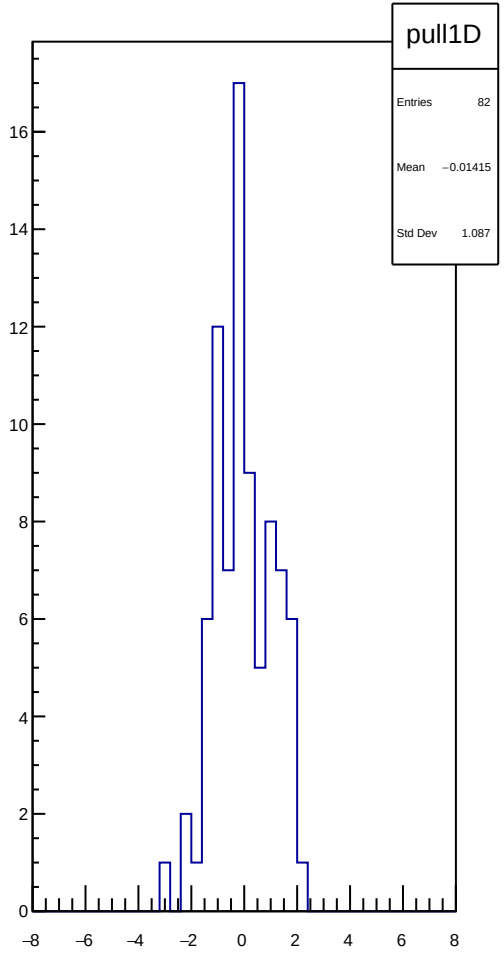

pull1D
Entries 82
Mean −0.01415
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 9416 / 81
p0 6600 ± 5.199
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600


cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 66.48 / 81
p0 919.6 ± 1433
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 173.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.009203
Std Dev 0.9003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 367.5 / 81
p0 1290 ± 1.013
1360
1340
1320
1300
1280
1260
1240


asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.91 / 81
p0 1333 ± 7352
200
100
0
−100
−200
−300
pull
Entries 82
Mean 45.21
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean −0.01415
Std Dev 1.087
16
14
12
10
8
6
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2
0
−8
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−4
−2
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2
4
6
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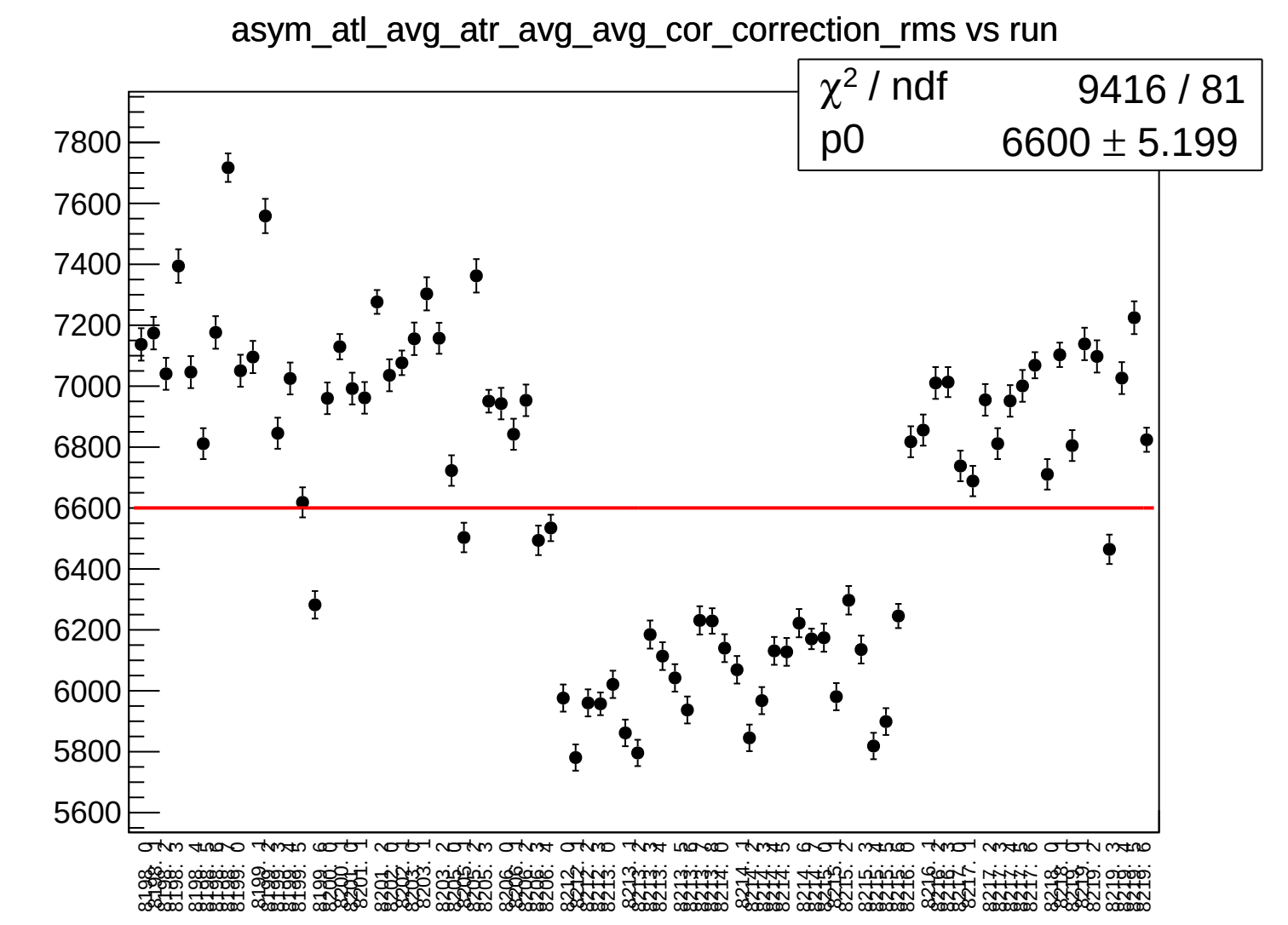
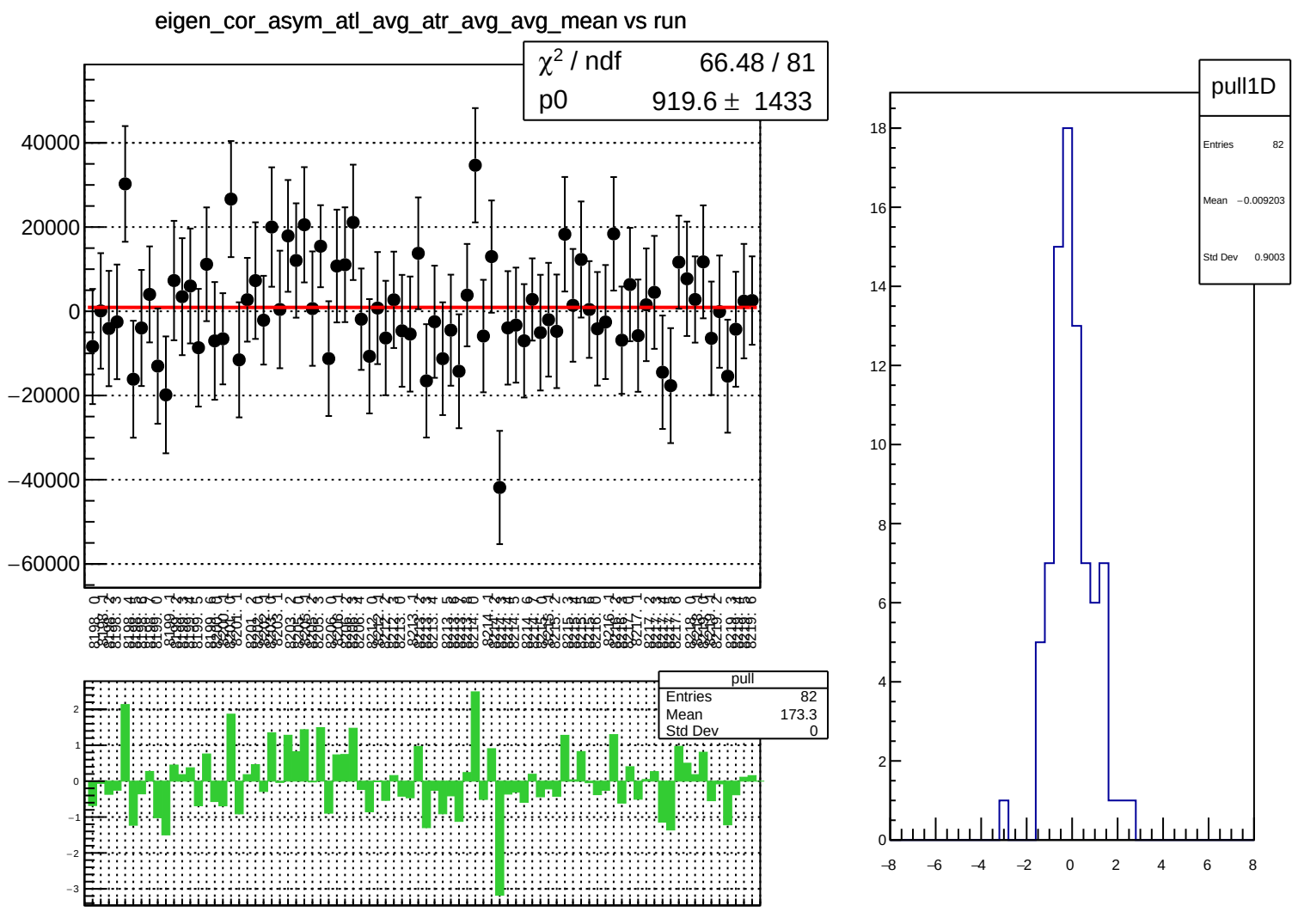

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 9416 / 81
p0 6600 ± 5.199
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600


eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 66.48 / 81
p0 919.6 ± 1433
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 173.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.009203
Std Dev 0.9003
18
16
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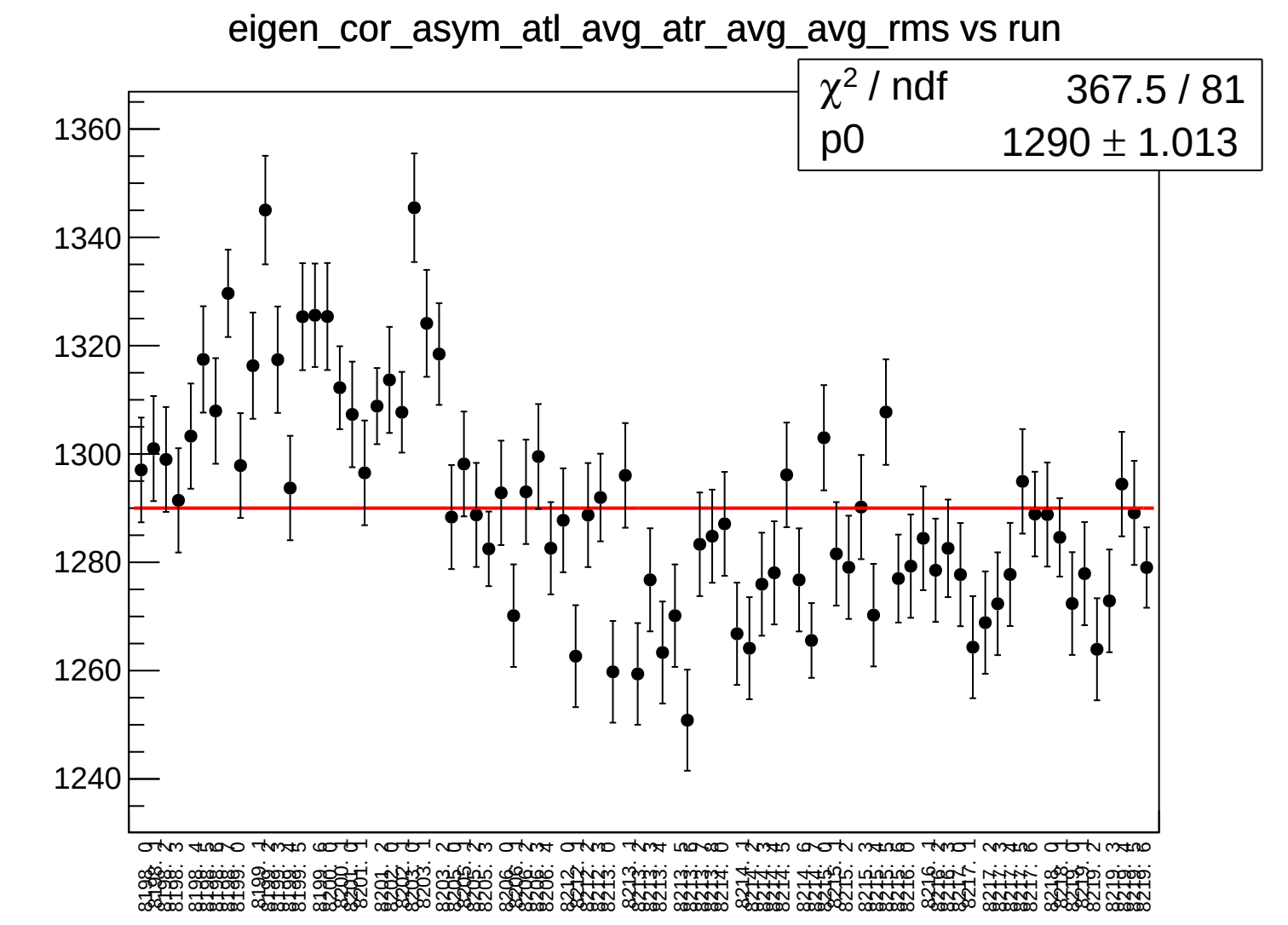
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 367.5 / 81
p0 1290 ± 1.013
1360
1340
1320
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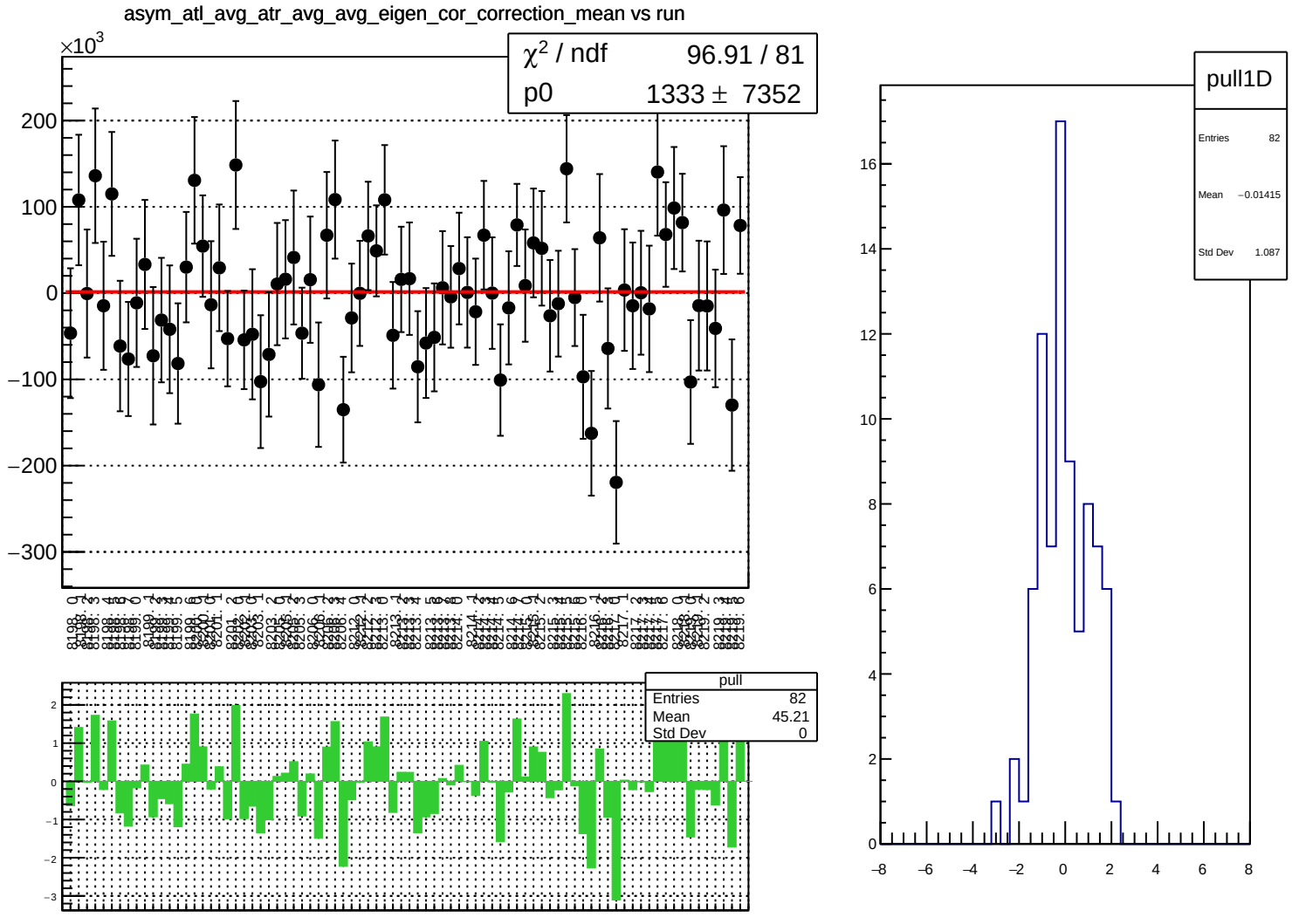
1280
1260
1240


asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.91 / 81
p0 1333 ± 7352
200
100
0
−100
−200
−300
pull
Entries 82
Mean 45.21
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.01415
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
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2
4
6
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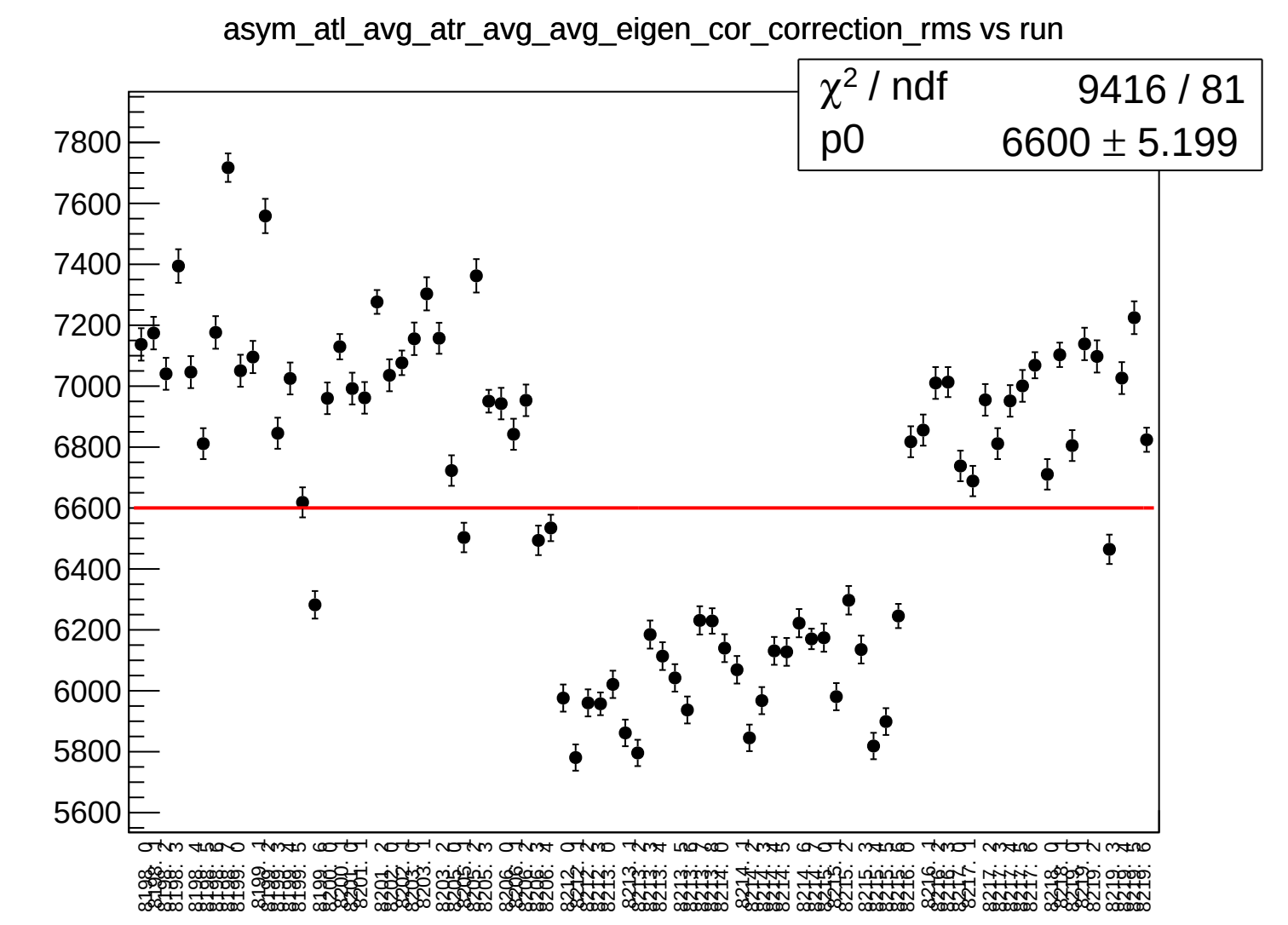
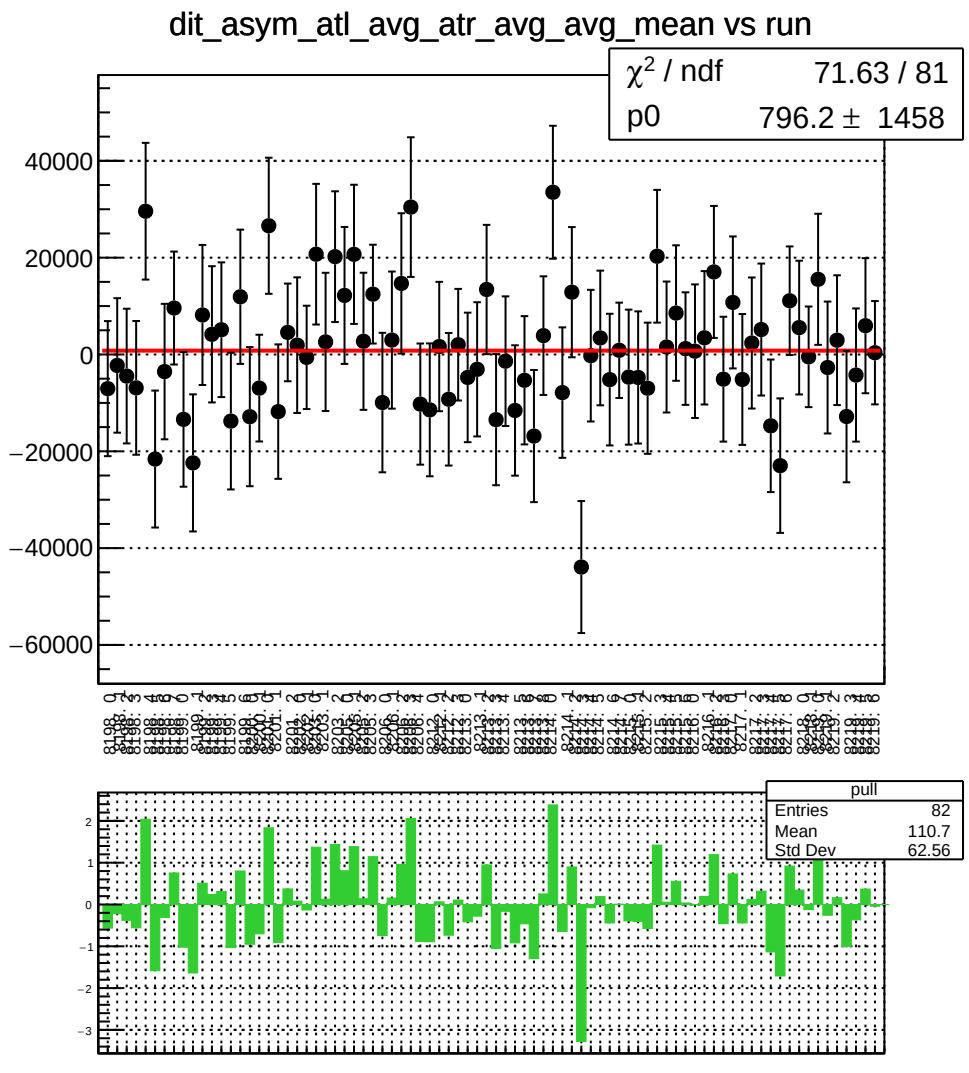
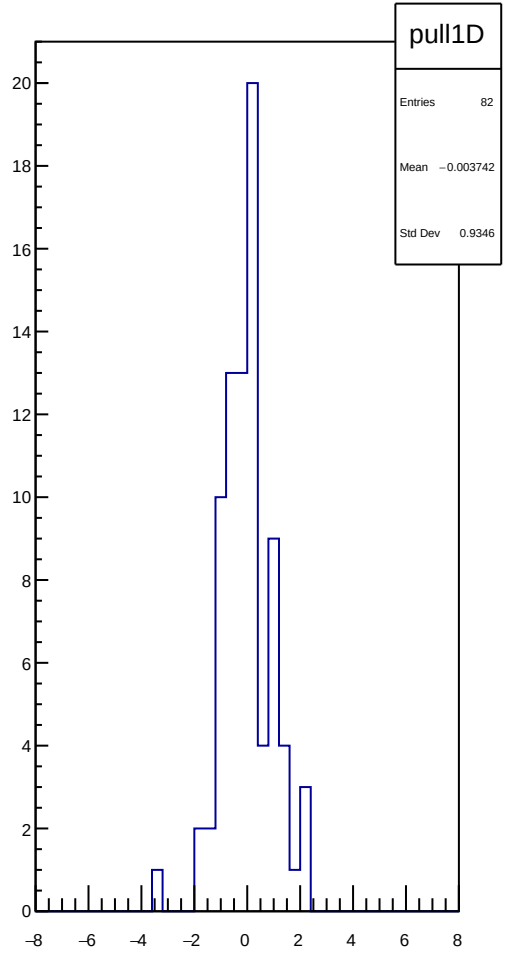
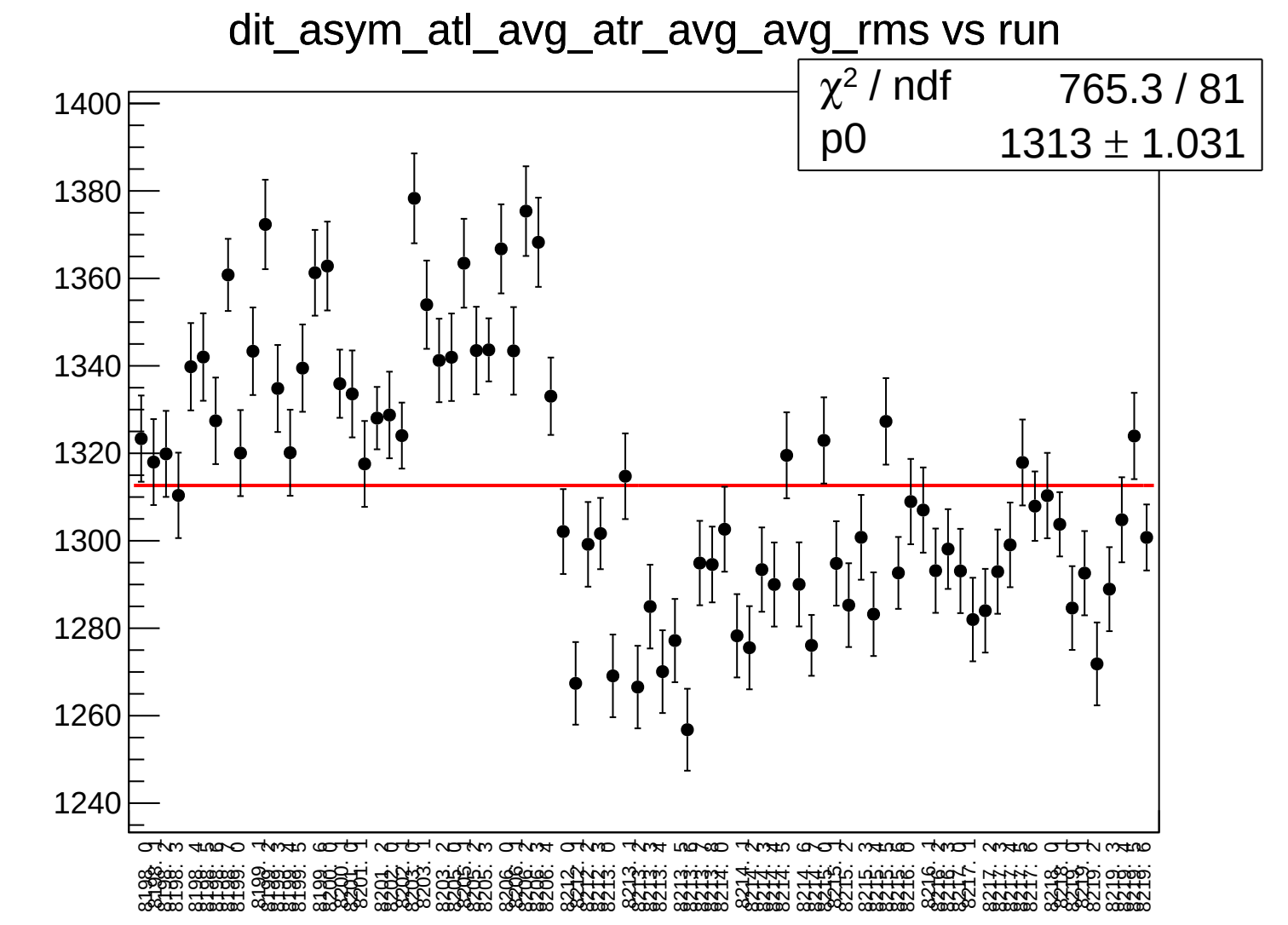
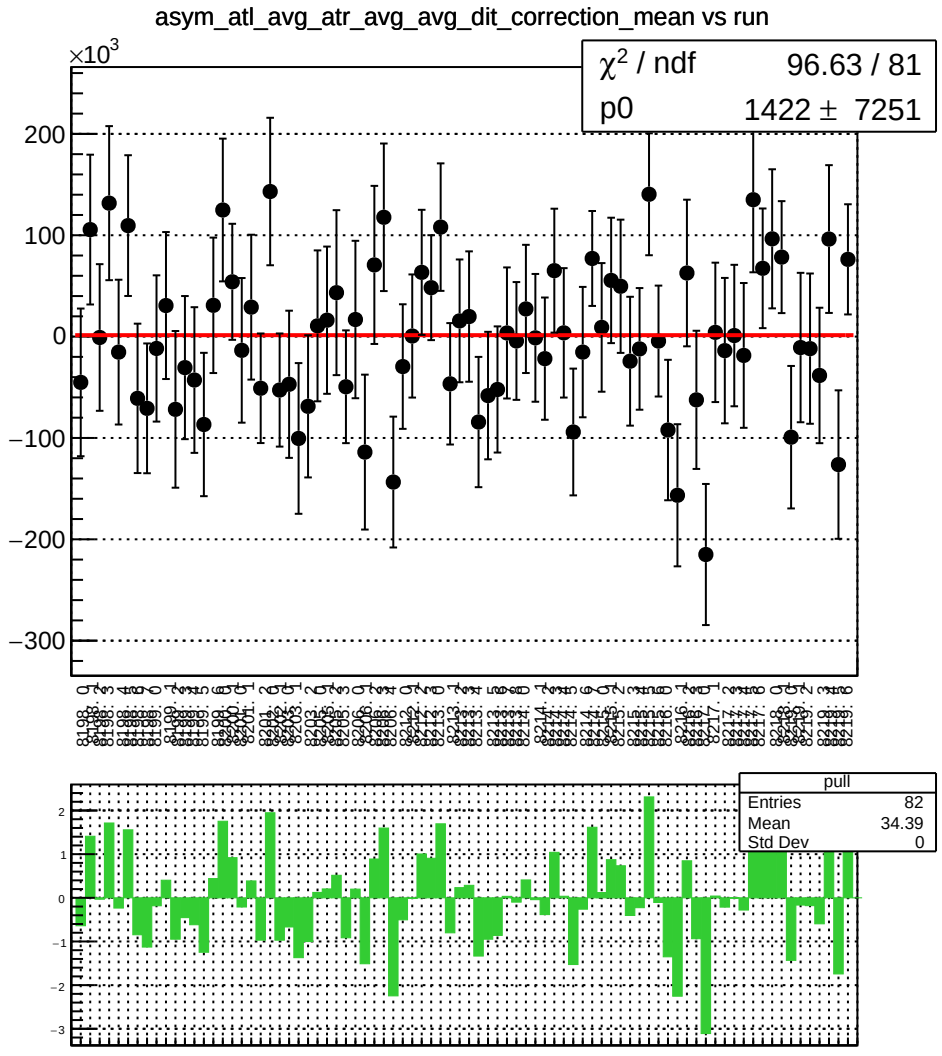
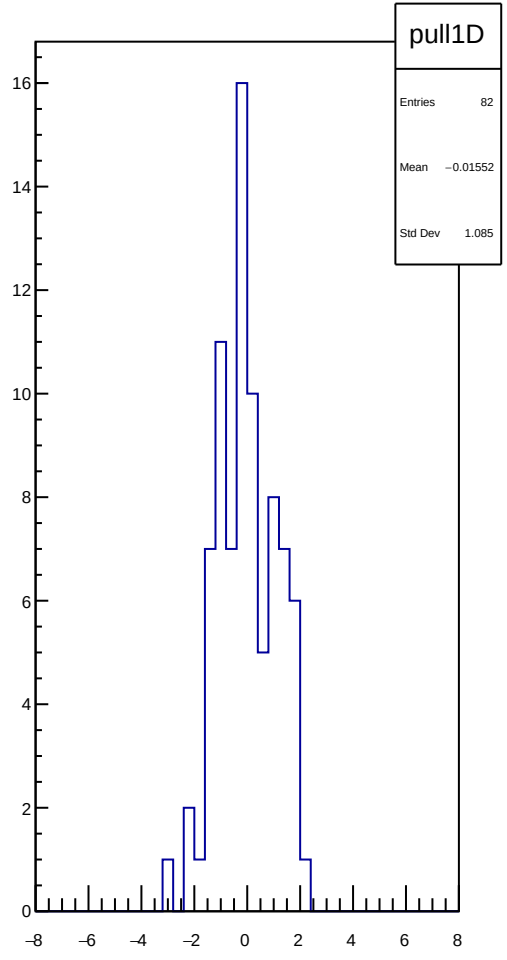

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 9416 / 81
p0 6600 ± 5.199
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600


dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 71.63 / 81
p0 796.2 ± 1458
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 110.7
Std Dev 62.56
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean −0.003742
Std Dev 0.9346
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 765.3 / 81
p0 1313 ± 1.031
1400
1380
1360
1340
1320
1300
1280
1260
1240


asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.63 / 81
p0 1422 ± 7251
200
100
0
−100
−200
−300
pull
Entries 82
Mean 34.39
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean −0.01552
Std Dev 1.085
16
14
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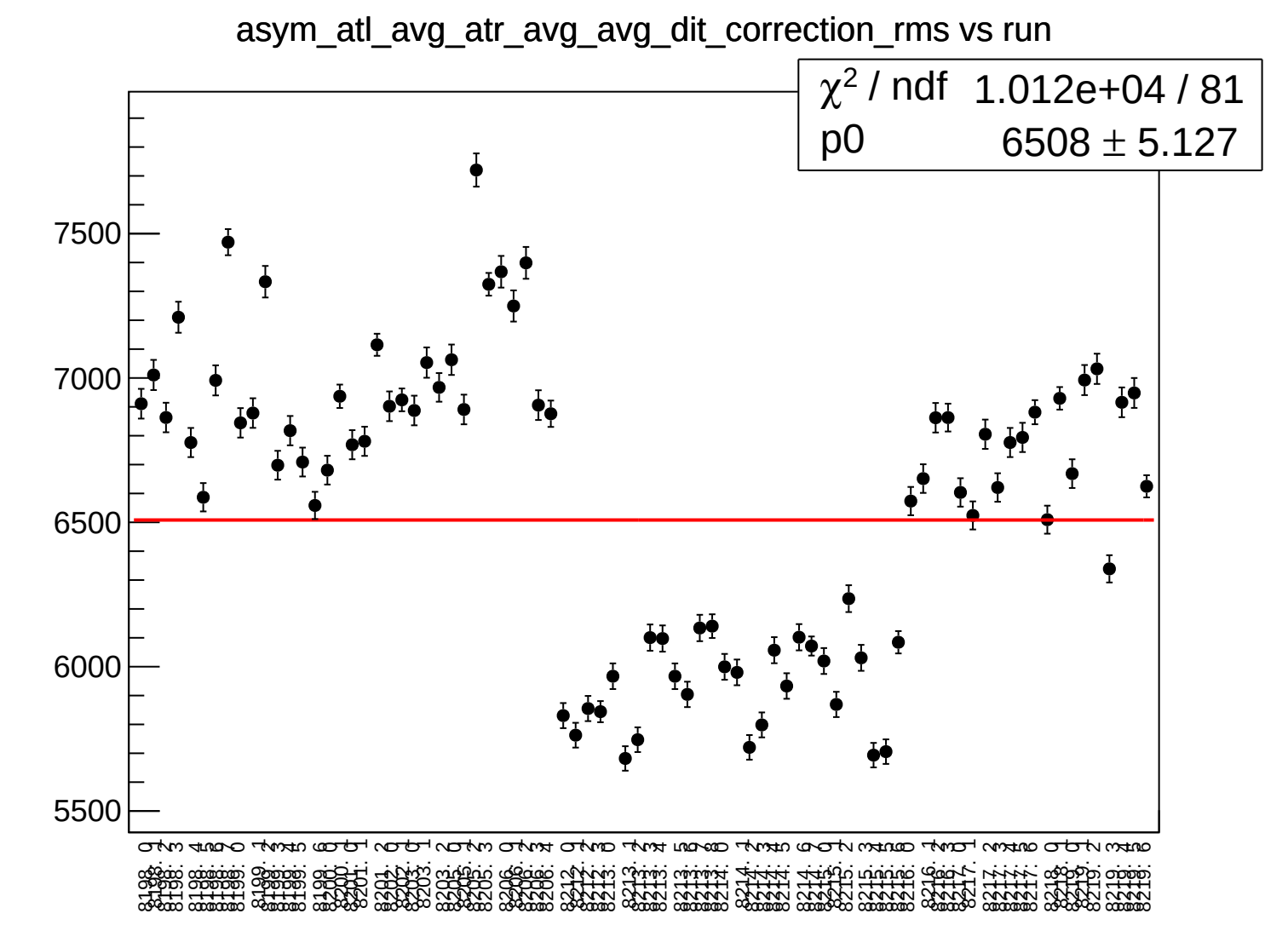
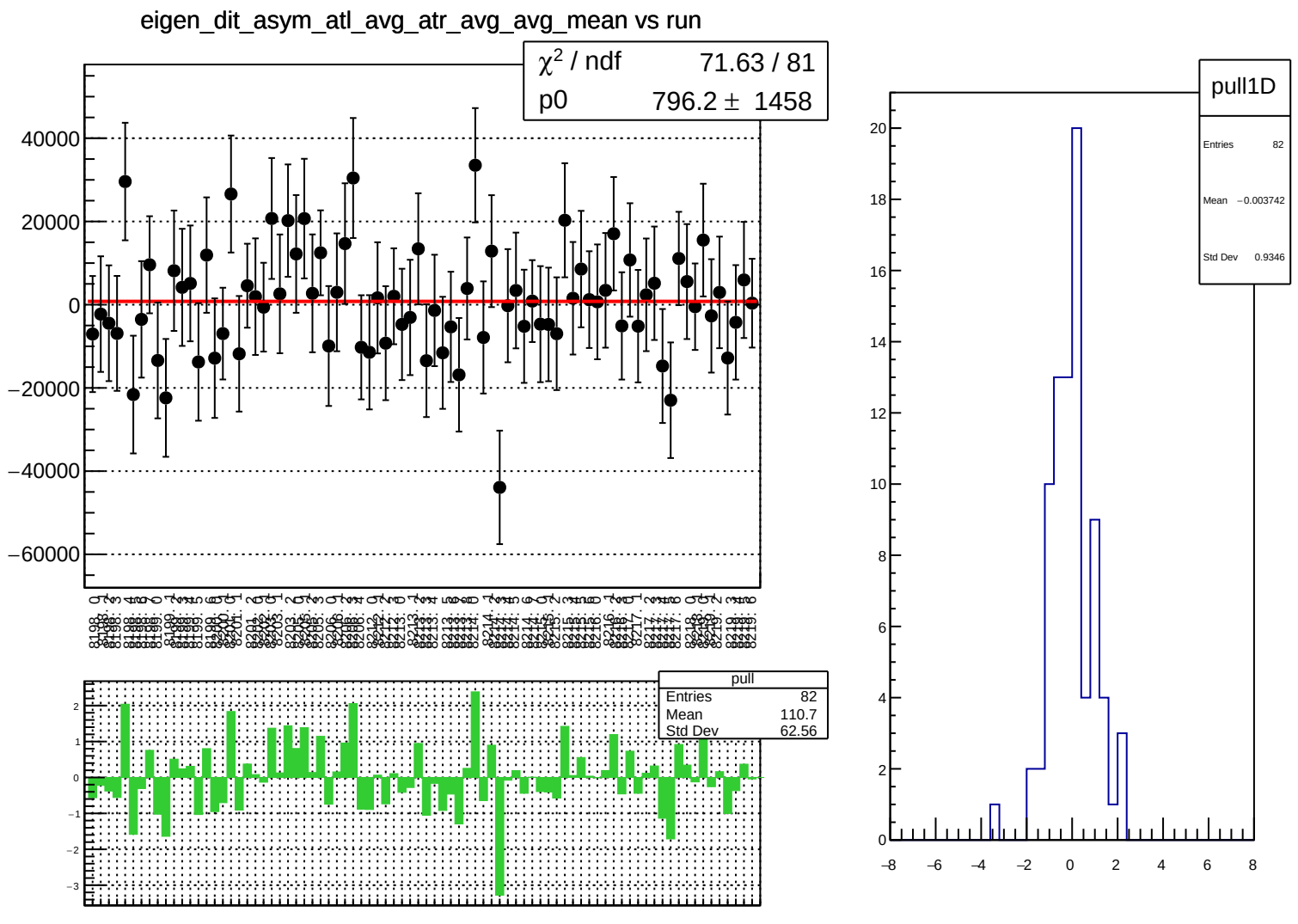
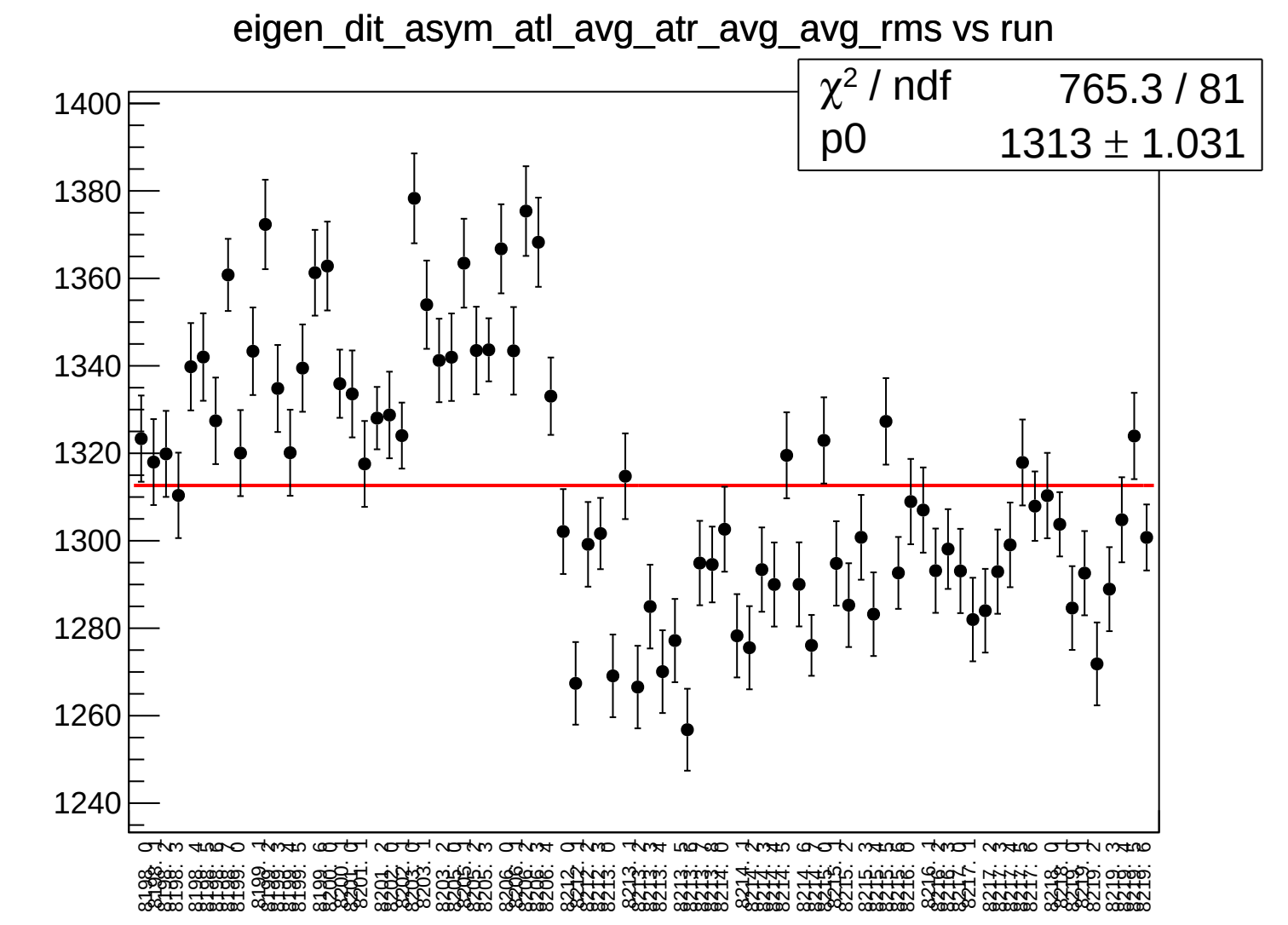
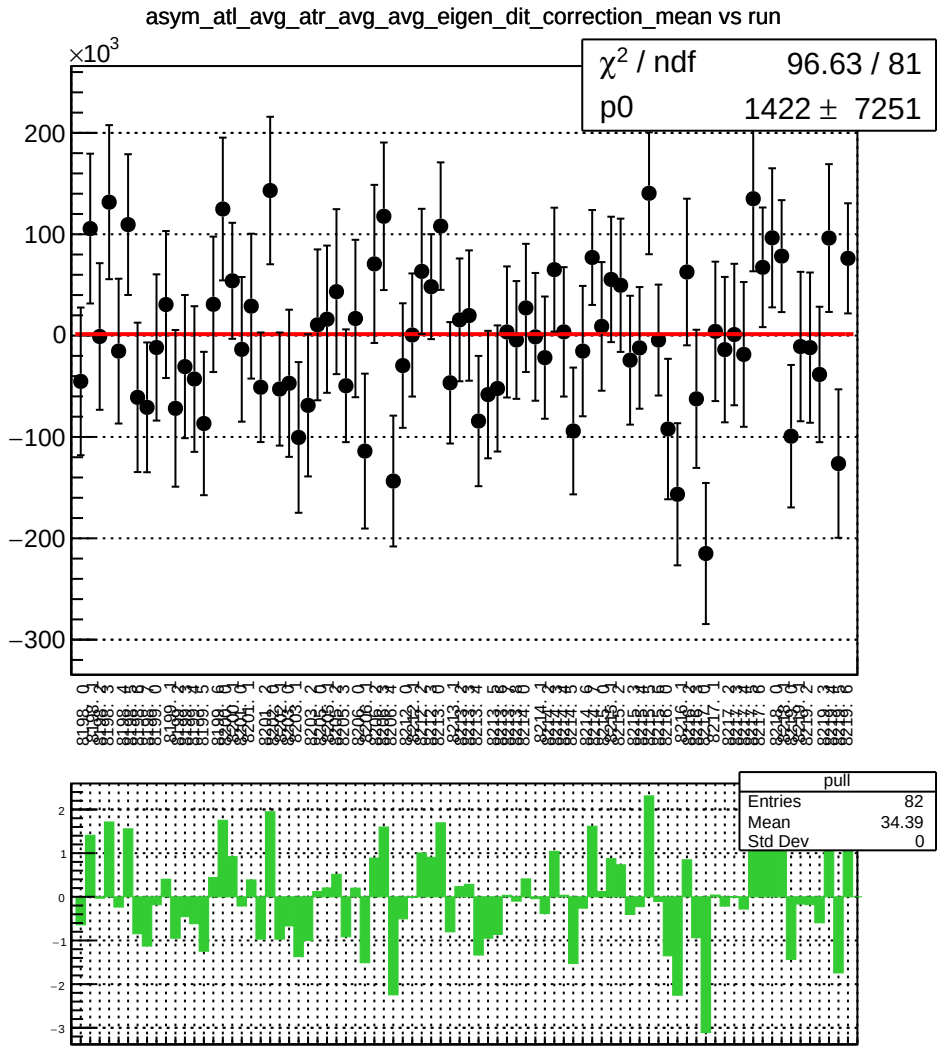
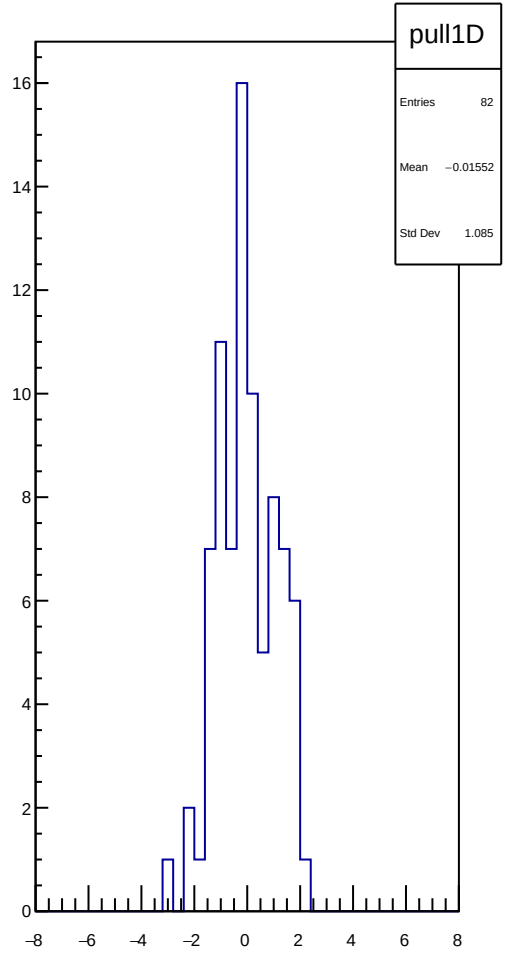
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

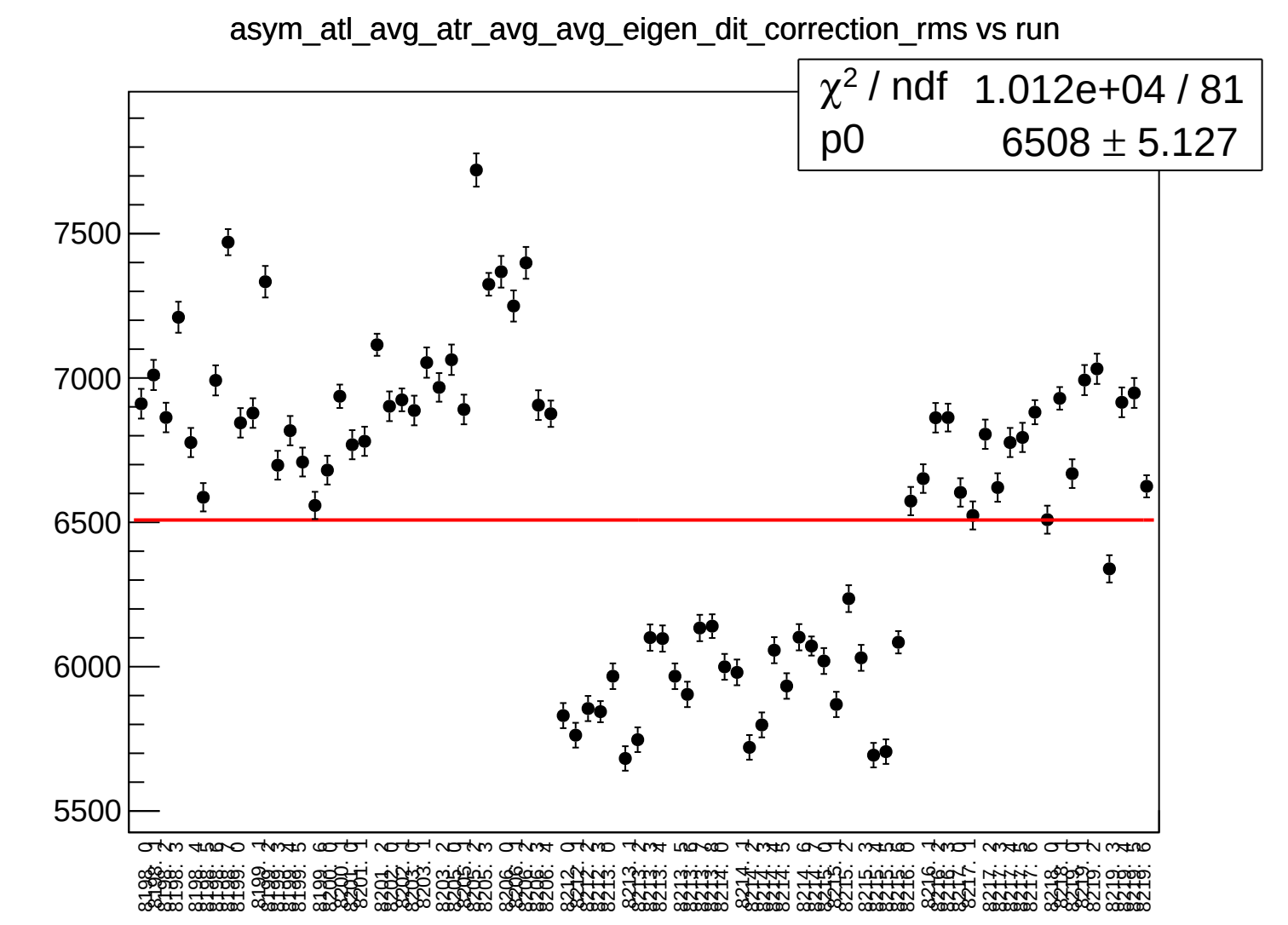

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.012e+04 / 81
p0 6508 ± 5.127
7500
7000
6500
6000
5500

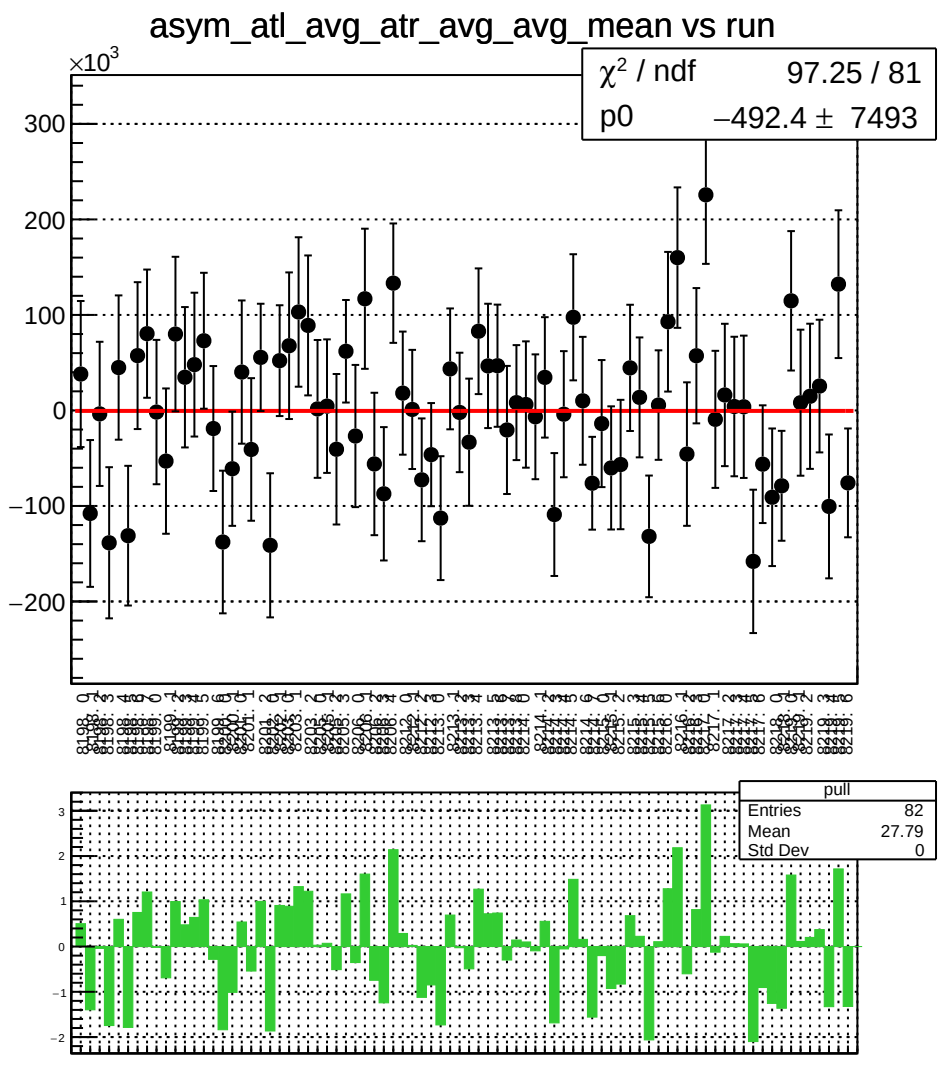

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 71.63 / 81
p0 796.2 ± 1458
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 110.7
Std Dev 62.56
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.003742
Std Dev 0.9346
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

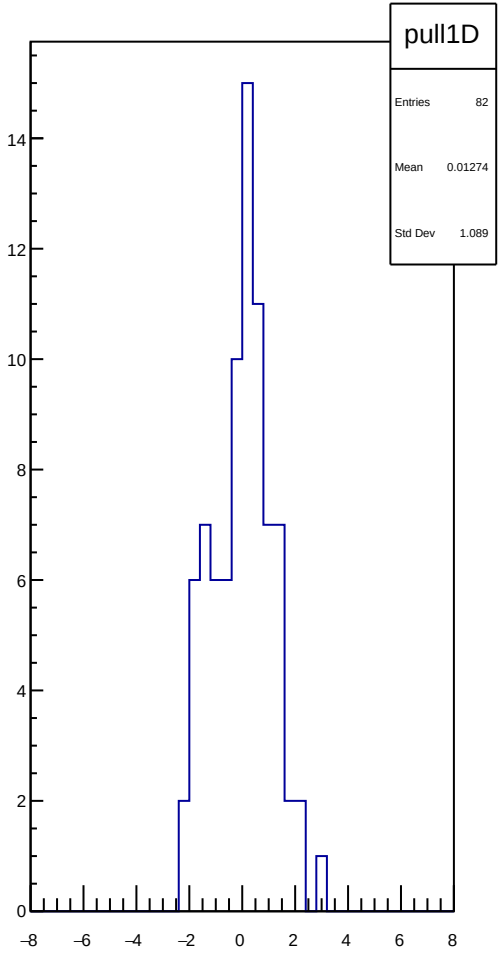

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 765.3 / 81
p0 1313 ± 1.031
1400
1380
1360
1340
1320
1300
1280
1260
1240


asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.63 / 81
p0 1422 ± 7251
200
100
0
−100
−200
−300
pull
Entries 82
Mean 34.39
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean −0.01552
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.012e+04 / 81
p0 6508 ± 5.127
7500
7000
6500
6000
5500


asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 97.25 / 81
p0 −492.4 ± 7493
300
200
100
0
−100
−200
pull
Entries 82
Mean 27.79
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 82
Mean 0.01274
Std Dev 1.089
14
12
10
8
6
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2
0
−8
−6
−4
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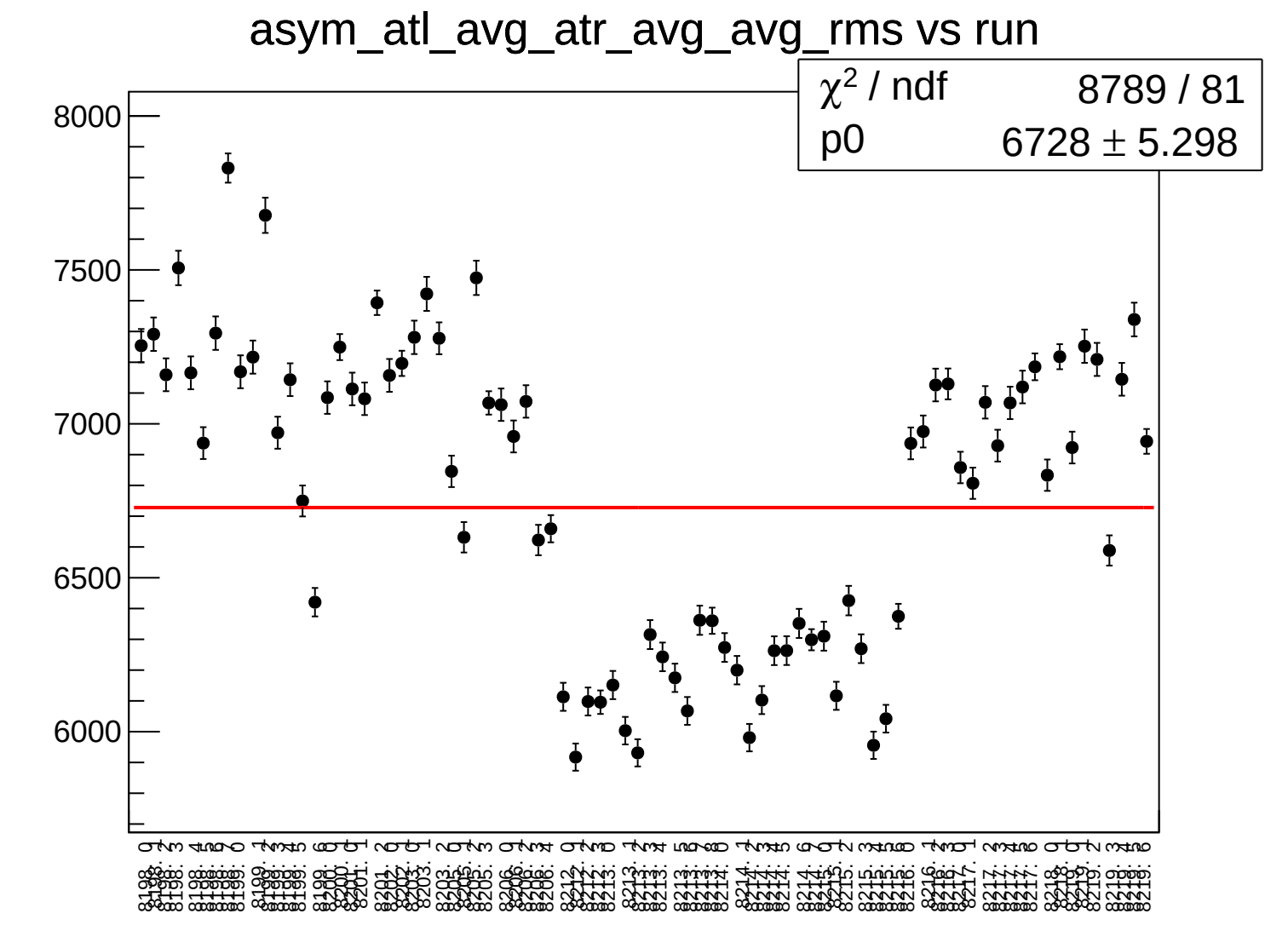
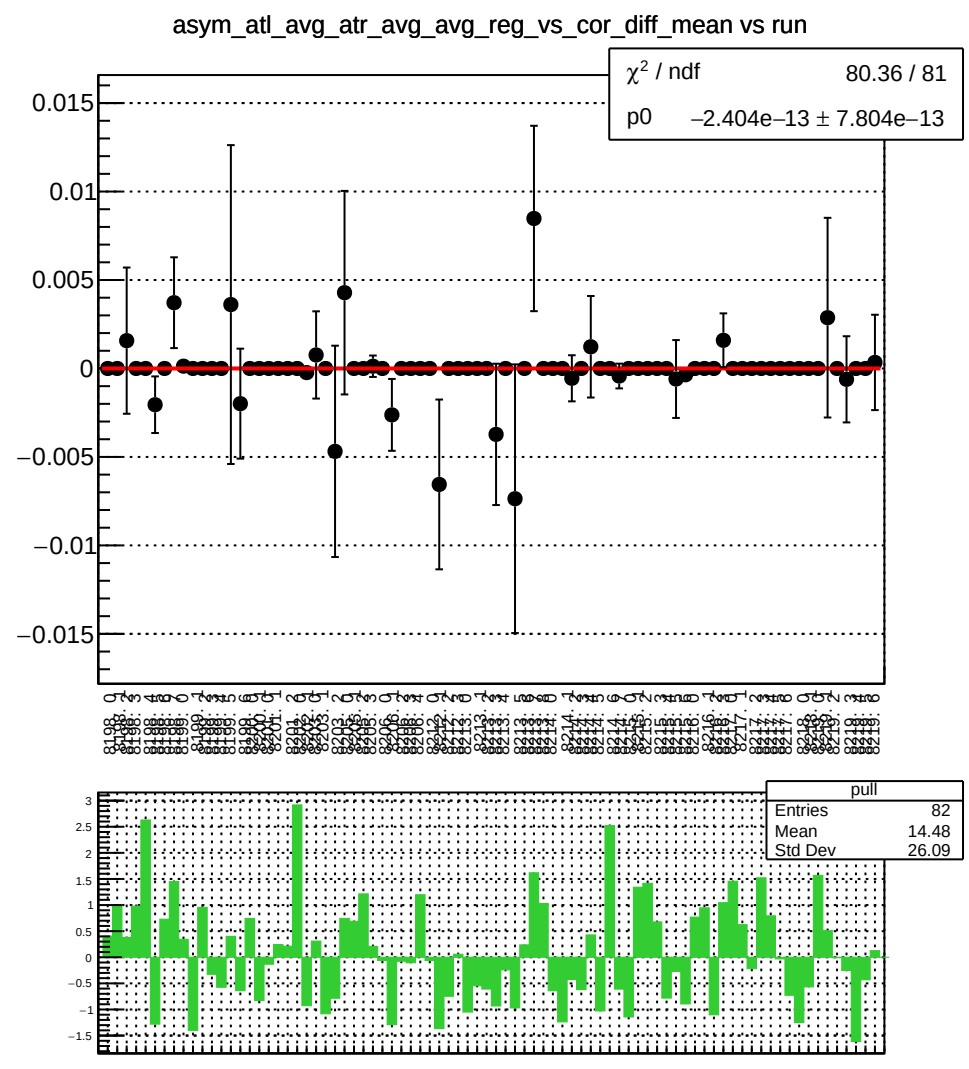
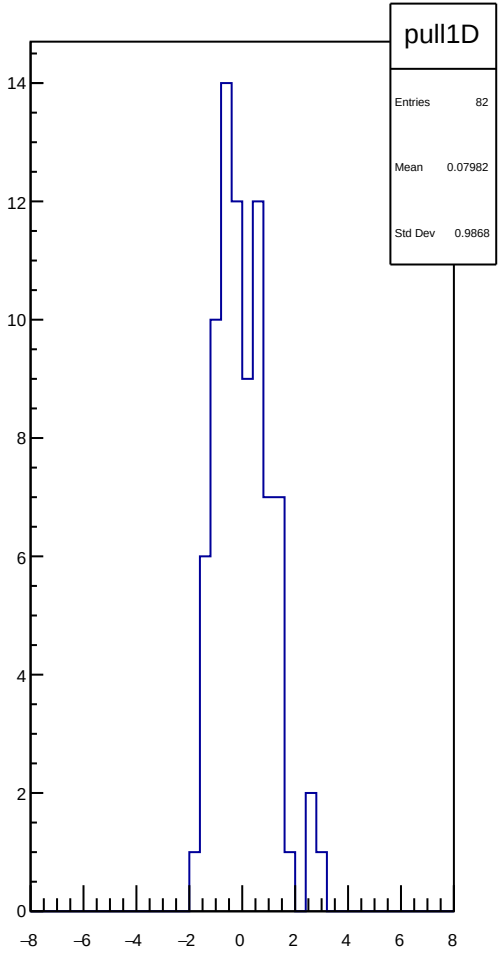
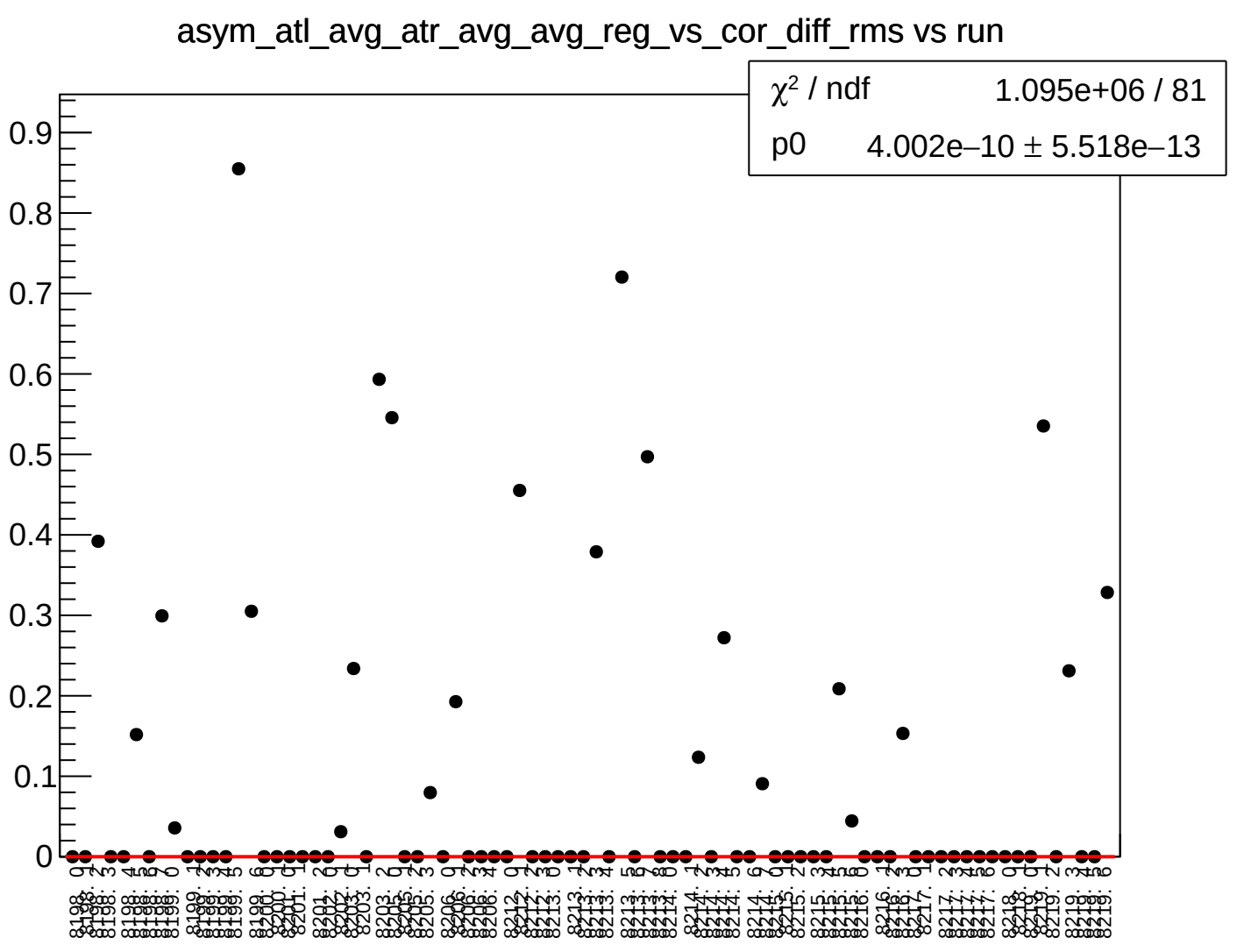
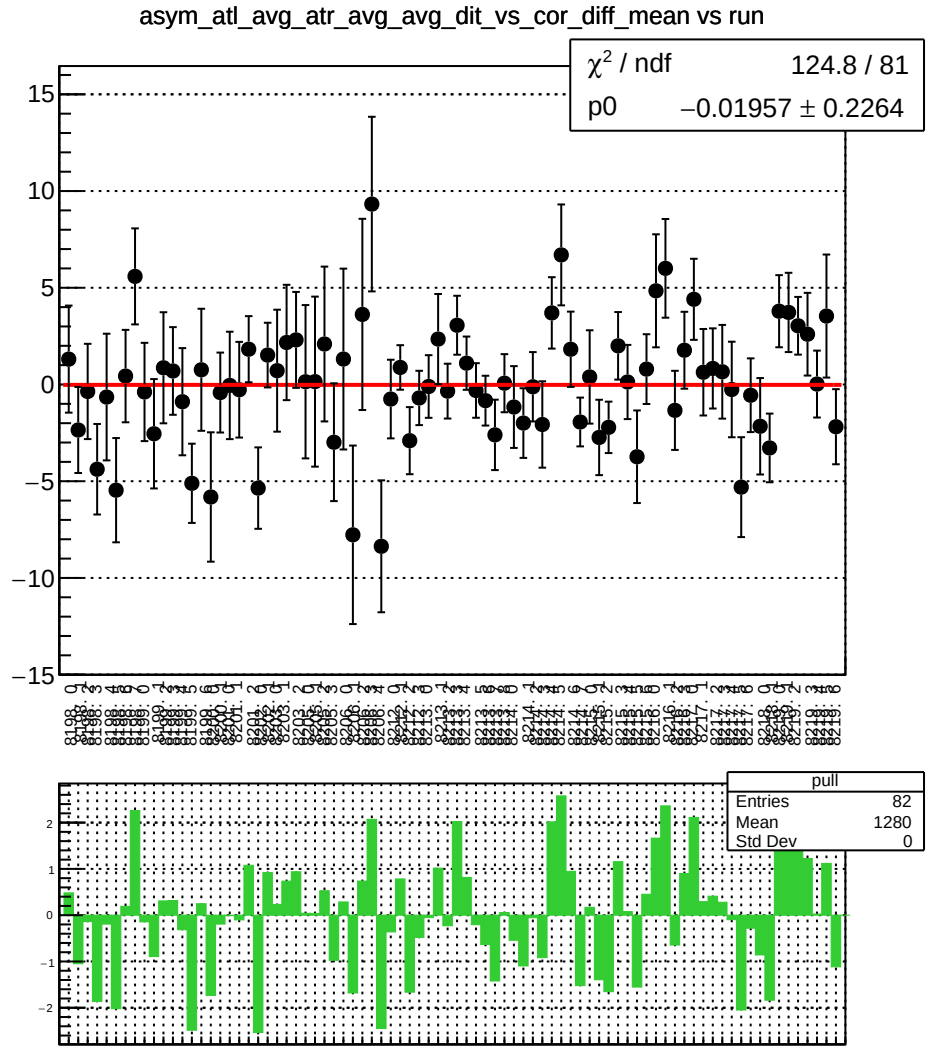
2
4
6
8

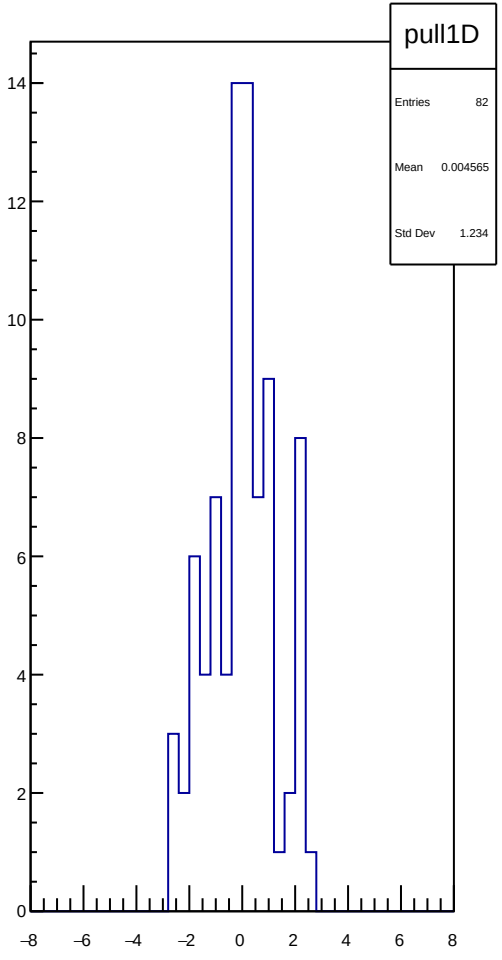

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 8789 / 81
p0 6728 ± 5.298
8000
7500
7000
6500
6000

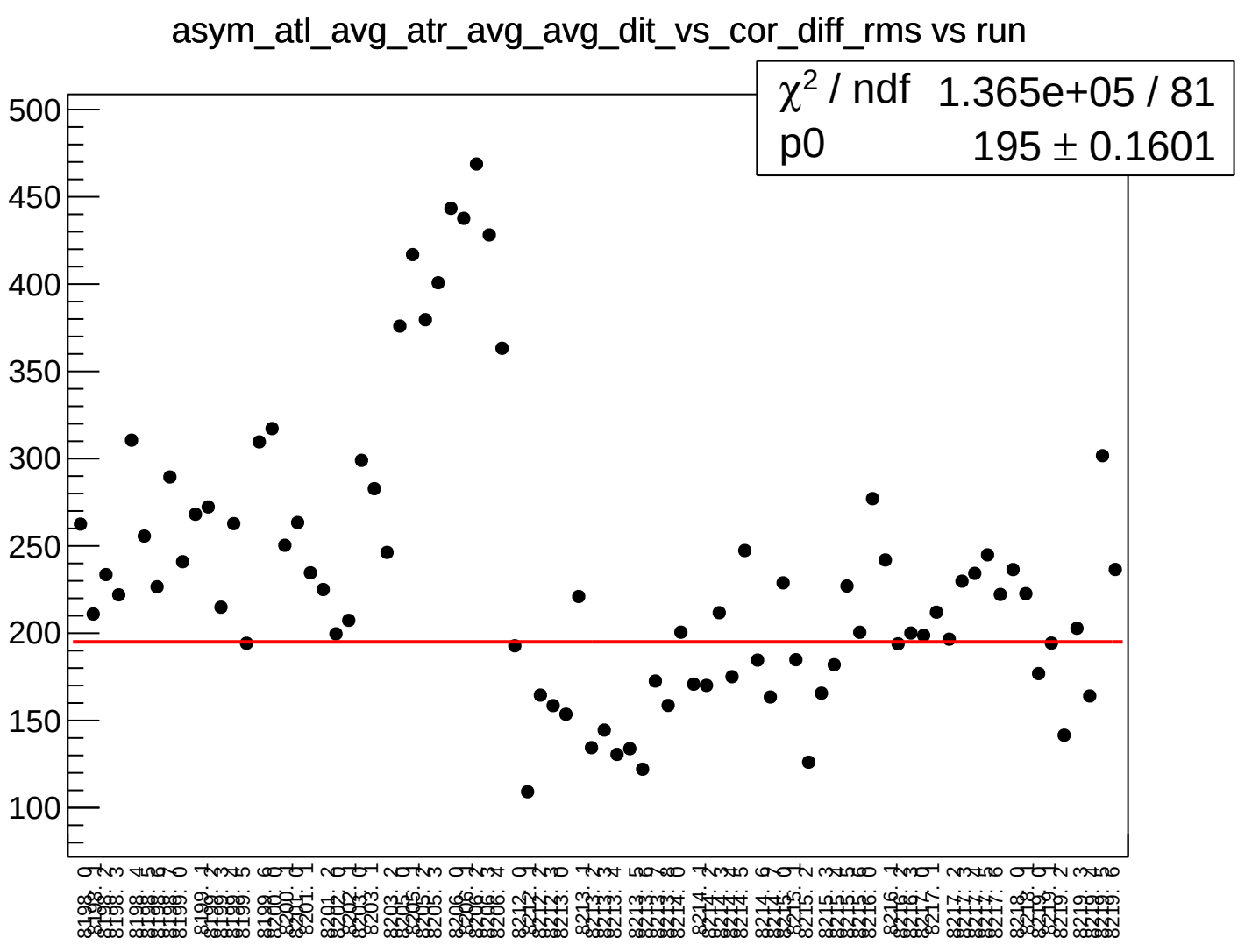

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.36 / 81
p0 −2.404e−13 ± 7.804e−13
pull
Entries 82
Mean 14.48
Std Dev 26.09

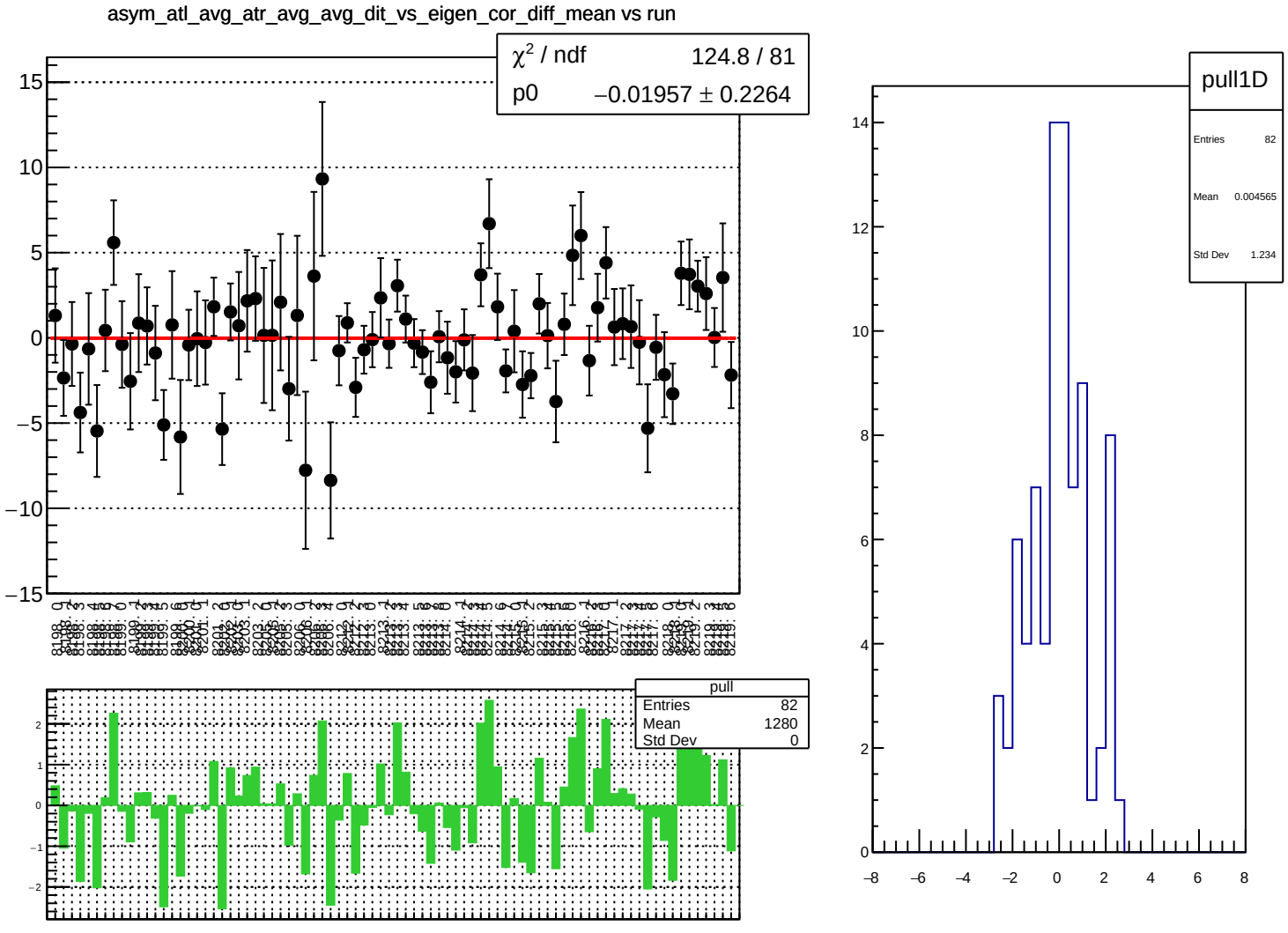

pull1D
Entries 82
Mean 0.07982
Std Dev 0.9868

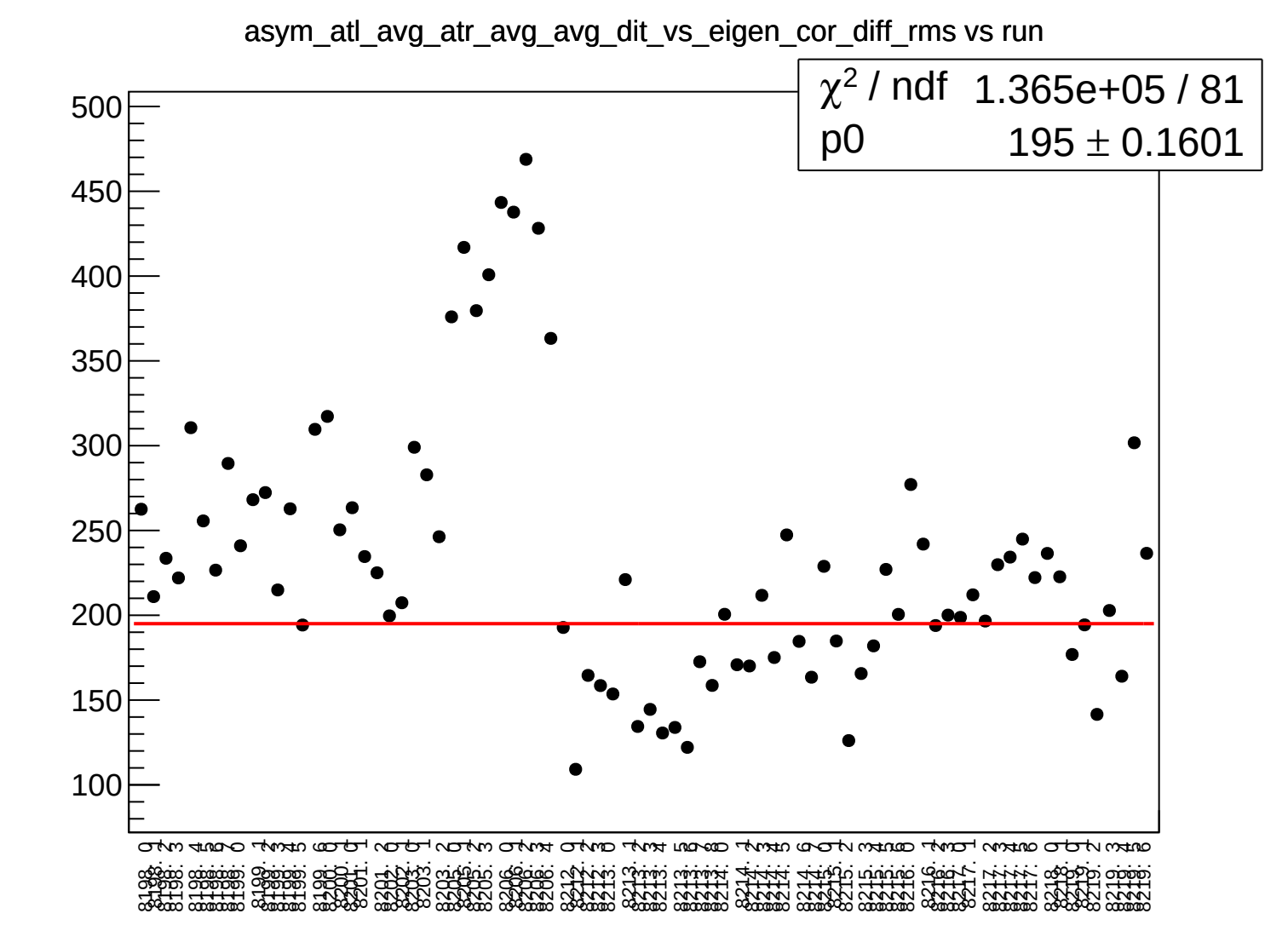

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.095e+06 / 81
p0 4.002e−10 ± 5.518e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

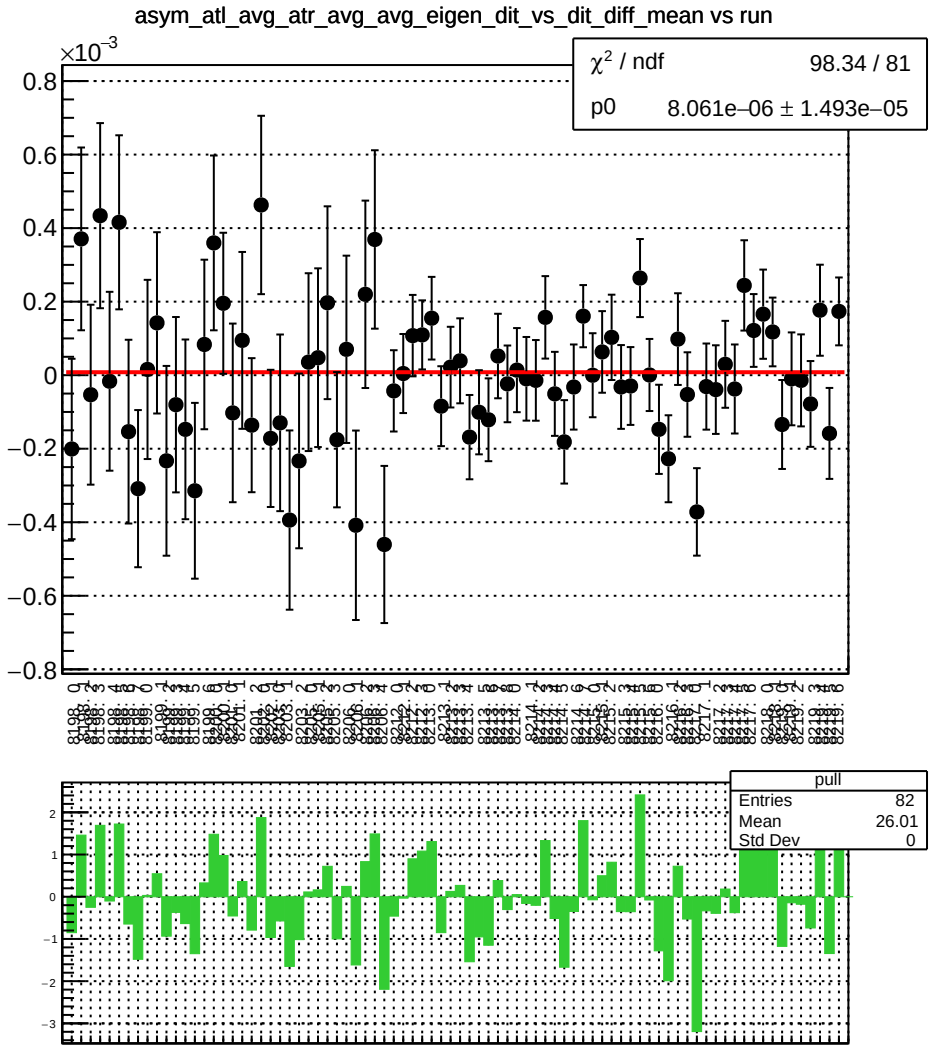

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 124.8 / 81
p0 −0.01957 ± 0.2264
pull
Entries 82
Mean 1280
Std Dev 0

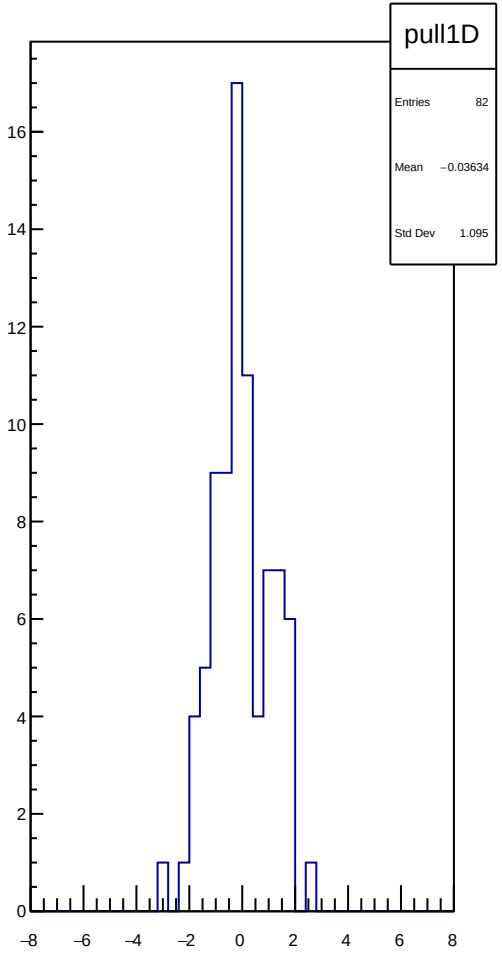

pull1D
Entries 82
Mean 0.004565
Std Dev 1.234

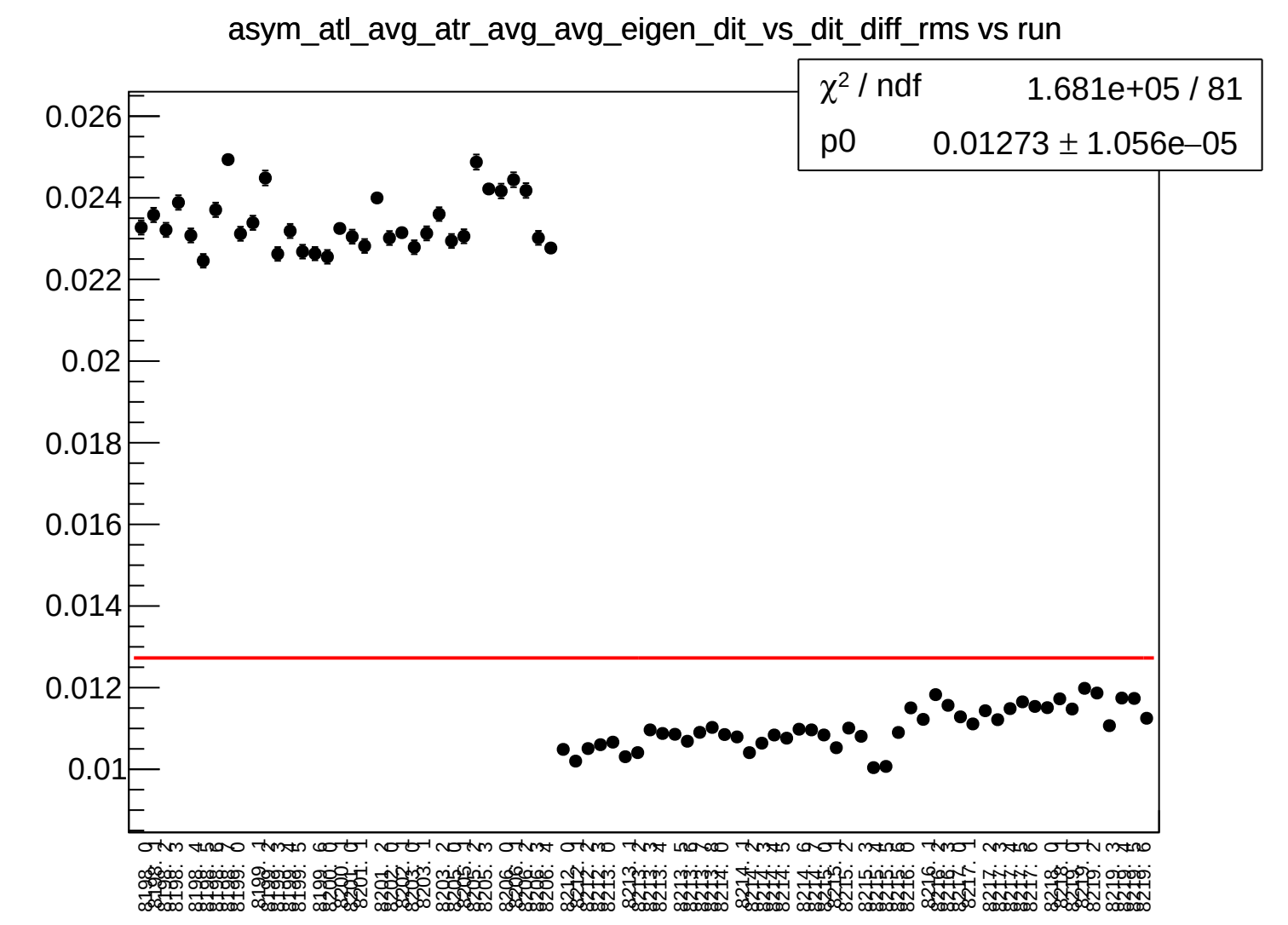

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.365e+05 / 81
p0 195 ± 0.1601
500
450
400
350
300
250
200
150
100

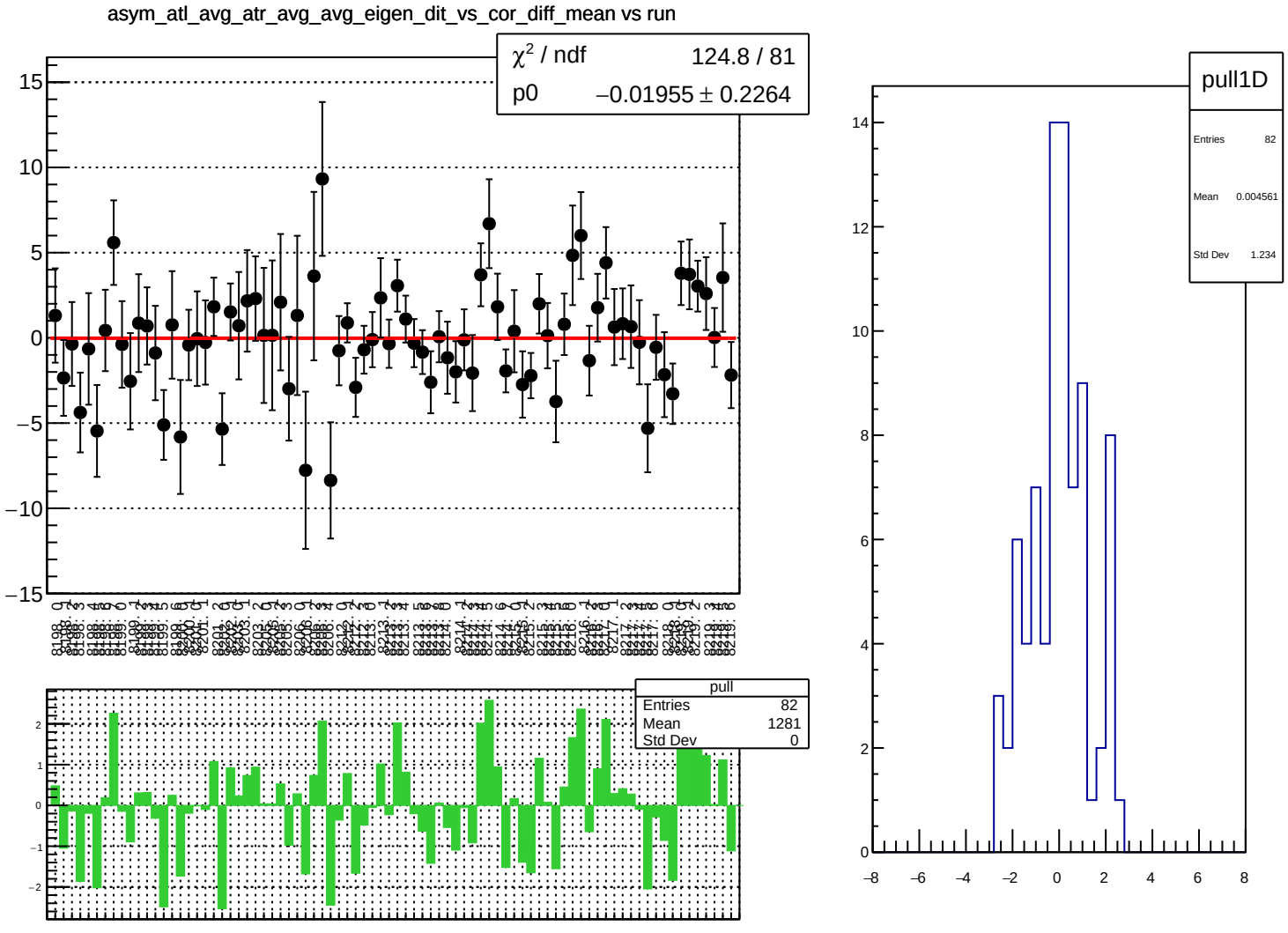

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124.8 / 81
p0 −0.01957 ± 0.2264
pull
Entries 82
Mean 1280
Std Dev 0
pull1D
Entries 82
Mean 0.004565
Std Dev 1.234

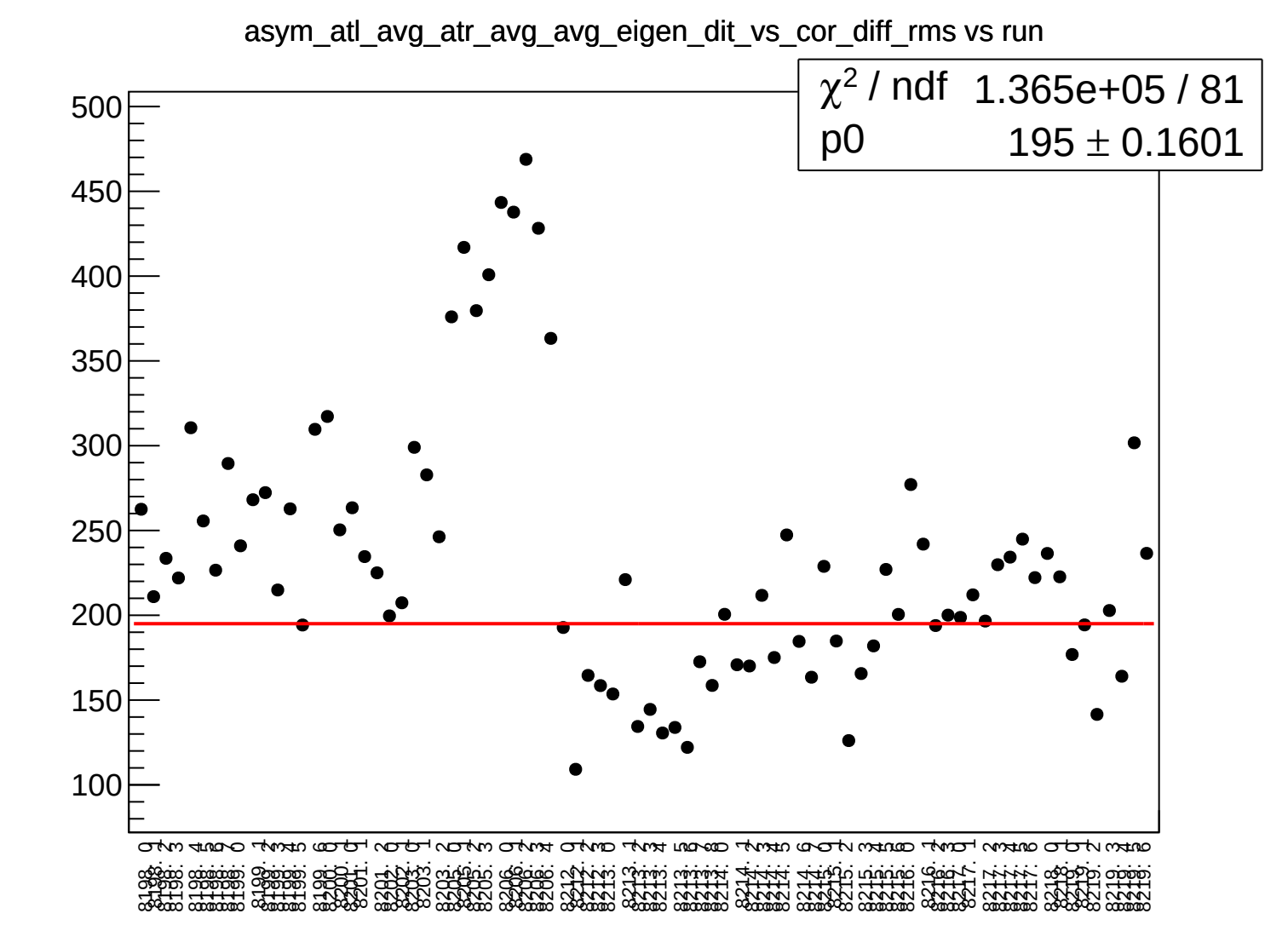

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.365e+05 / 81
p0 195 ± 0.1601
500
450
400
350
300
250
200
150
100

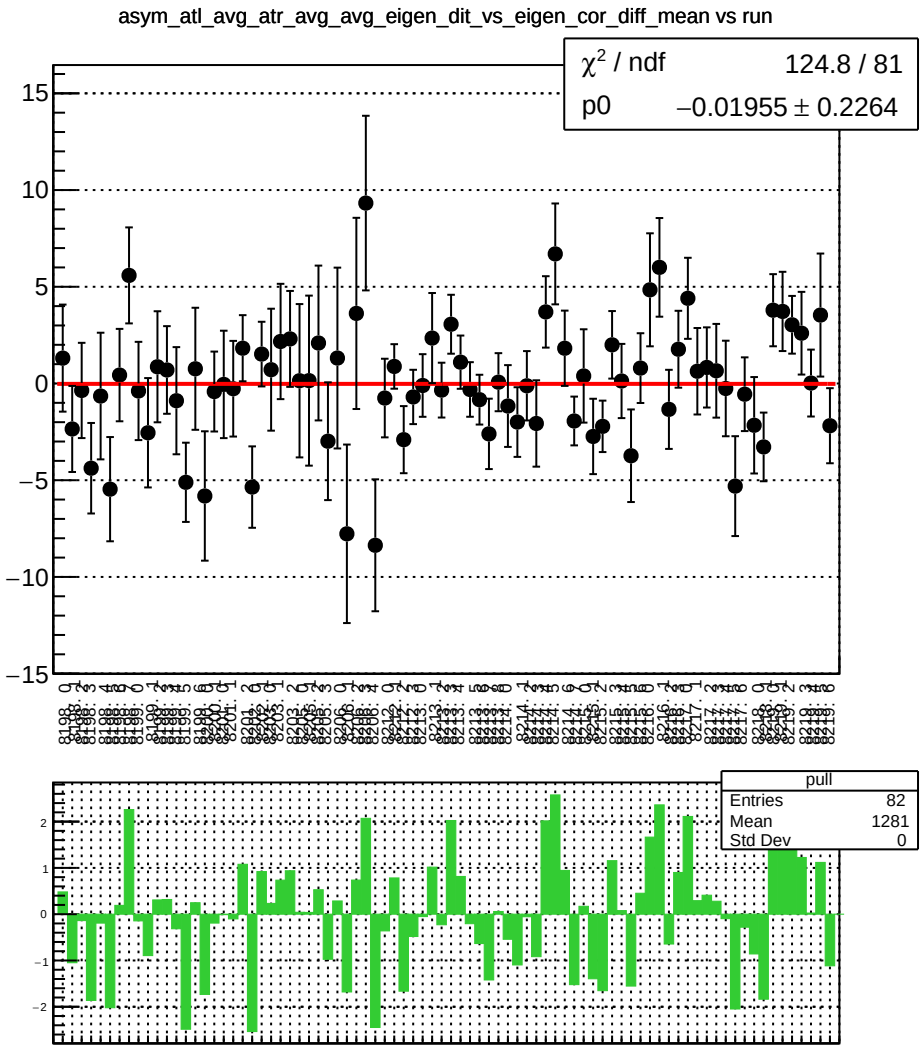

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.34 / 81
p0 8.061e−06 ± 1.493e−05
pull
Entries 82
Mean 26.01
Std Dev 0

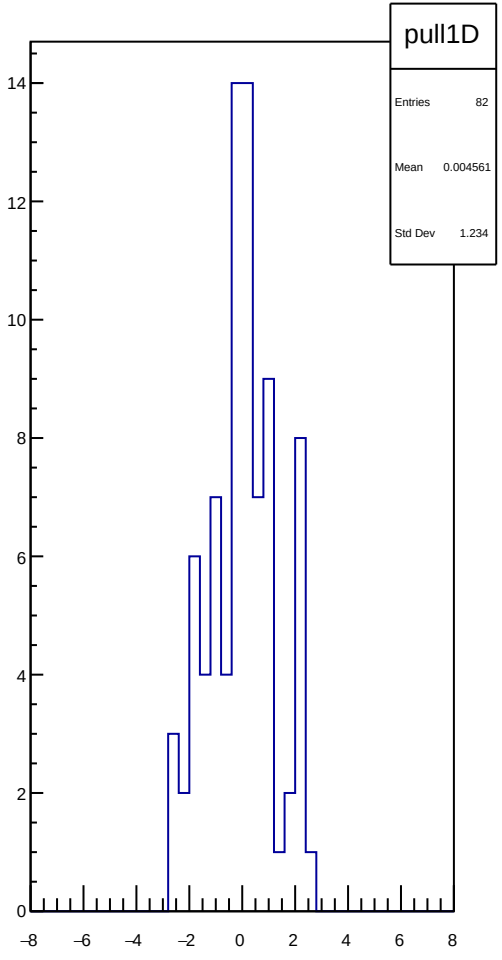

pull1D
Entries 82
Mean −0.03634
Std Dev 1.095

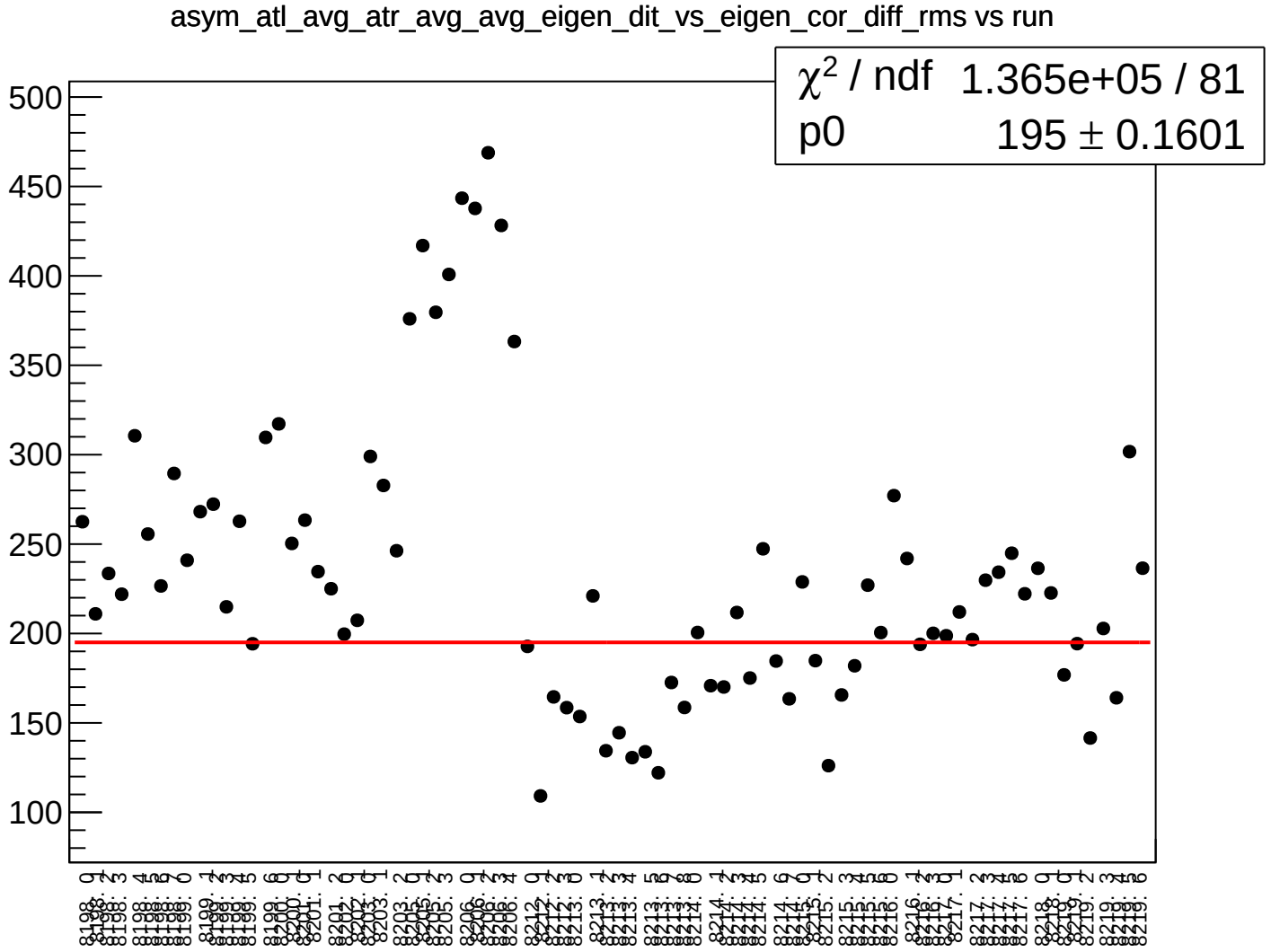

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.681e+05 / 81
p0 0.01273 ± 1.056e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

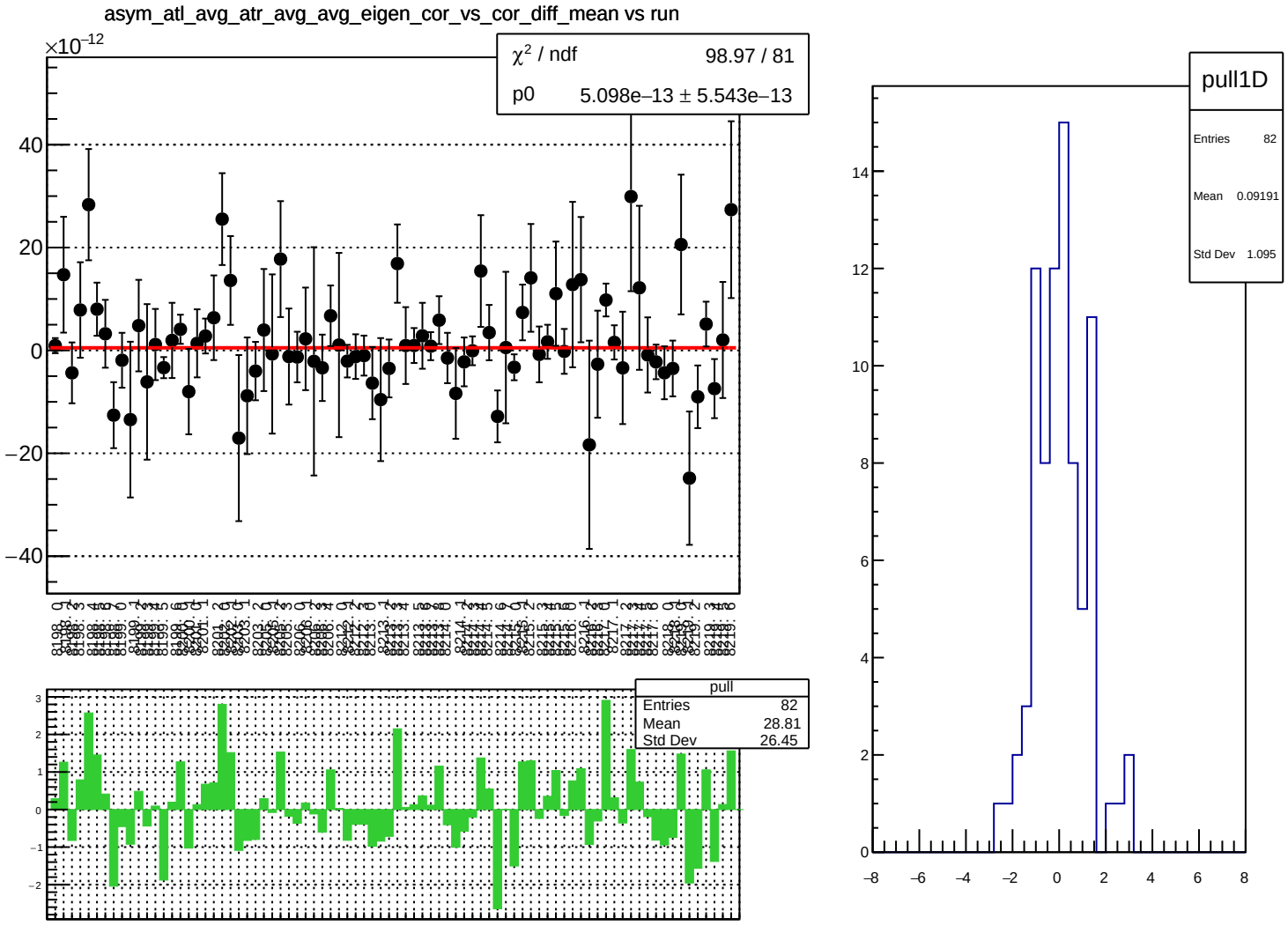

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 124.8 / 81
p0 −0.01955 ± 0.2264
pull
Entries 82
Mean 1281
Std Dev 0
pull1D
Entries 82
Mean 0.004561
Std Dev 1.234

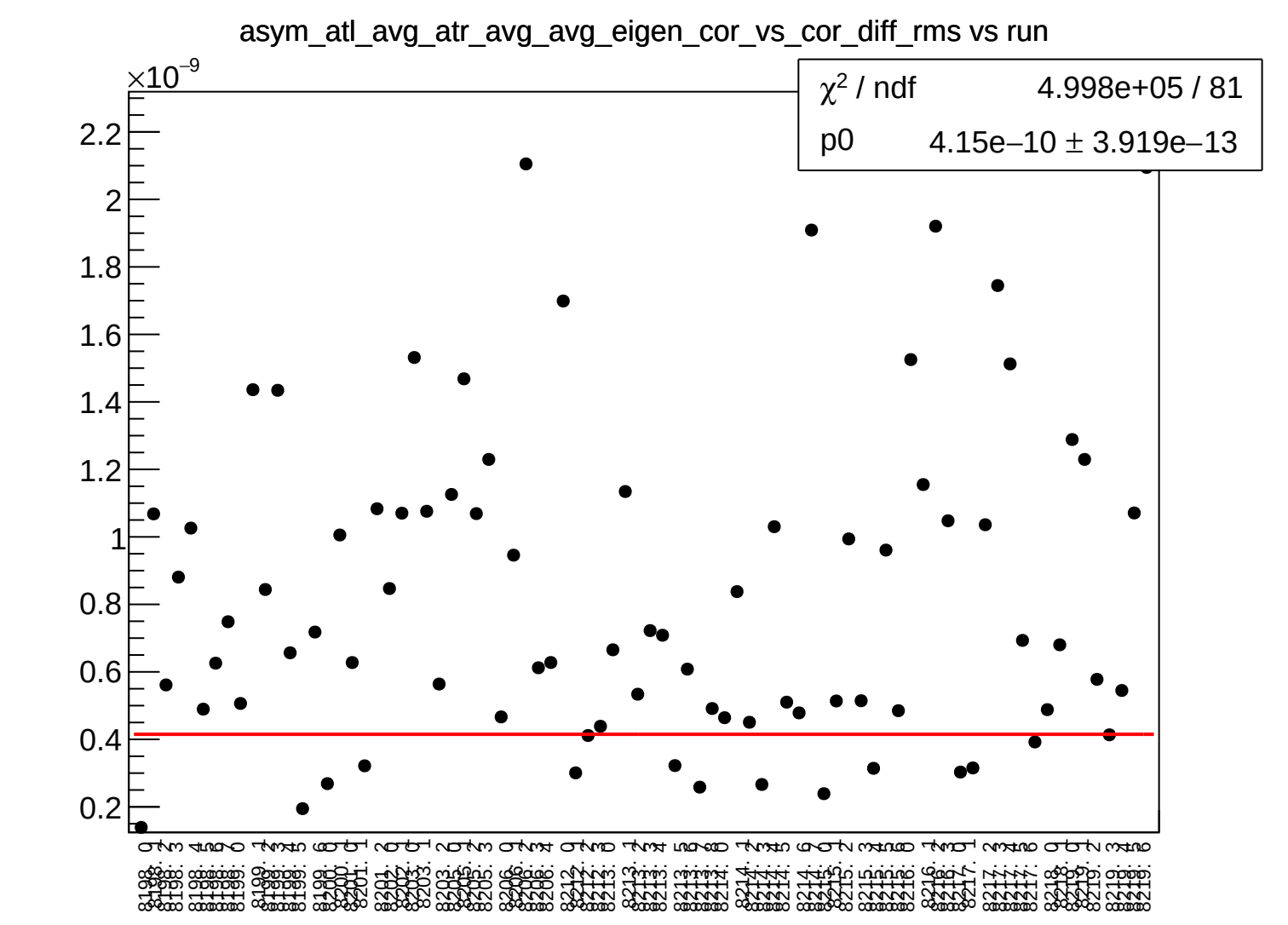

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.365e+05 / 81
p0 195 ± 0.1601
500
450
400
350
300
250
200
150
100

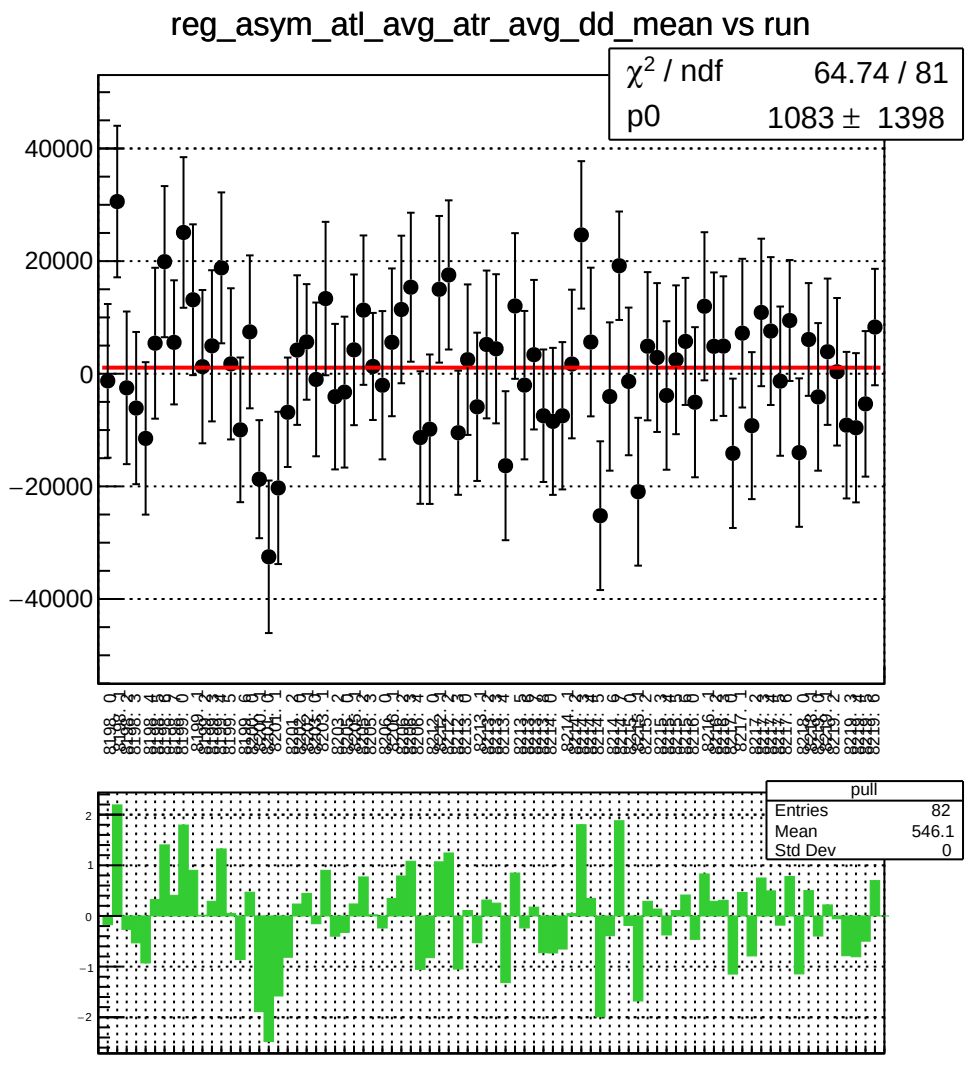

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124.8 / 81
p0 −0.01955 ± 0.2264
pull
Entries 82
Mean 1281
Std Dev 0

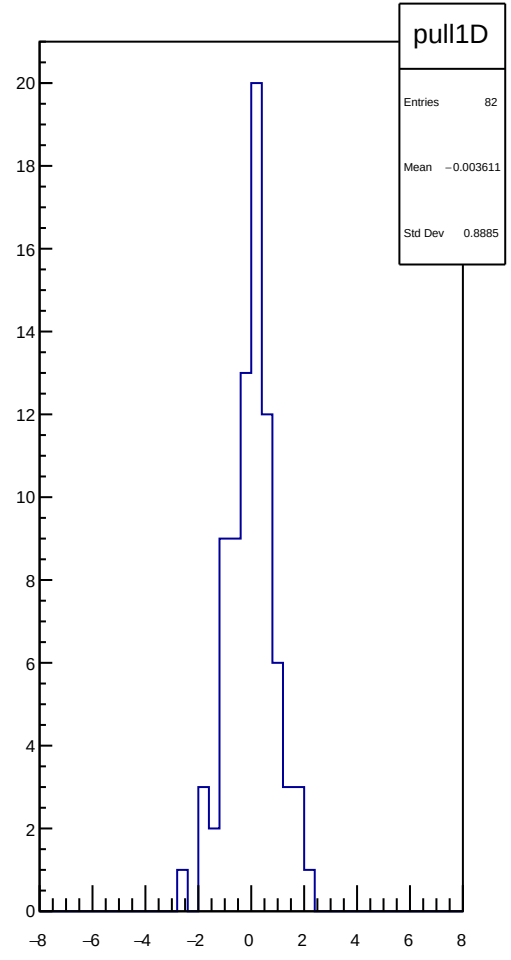

pull1D
Entries 82
Mean 0.004561
Std Dev 1.234

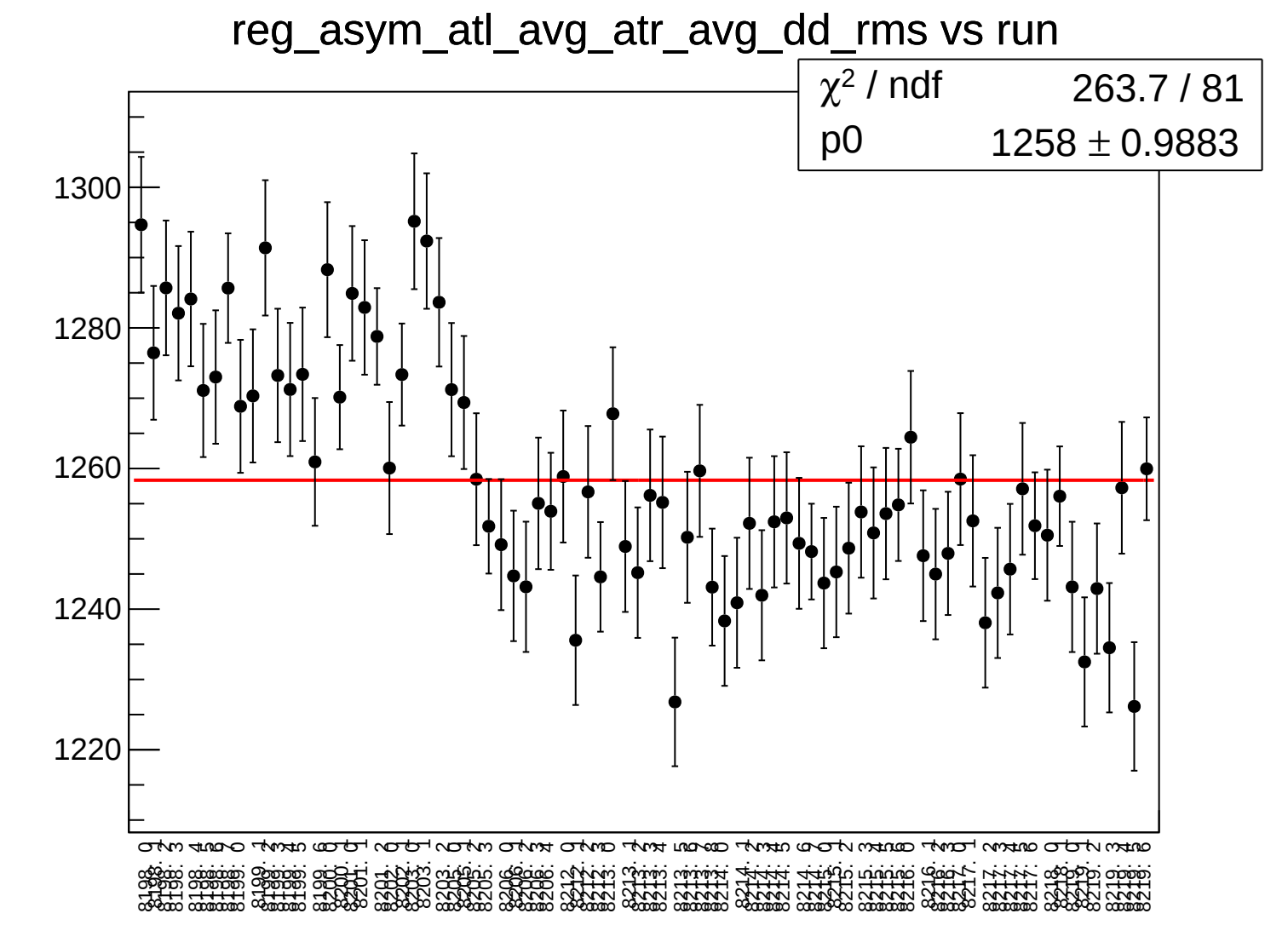

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.365e+05 / 81
p0 195 ± 0.1601
500
450
400
350
300
250
200
150
100

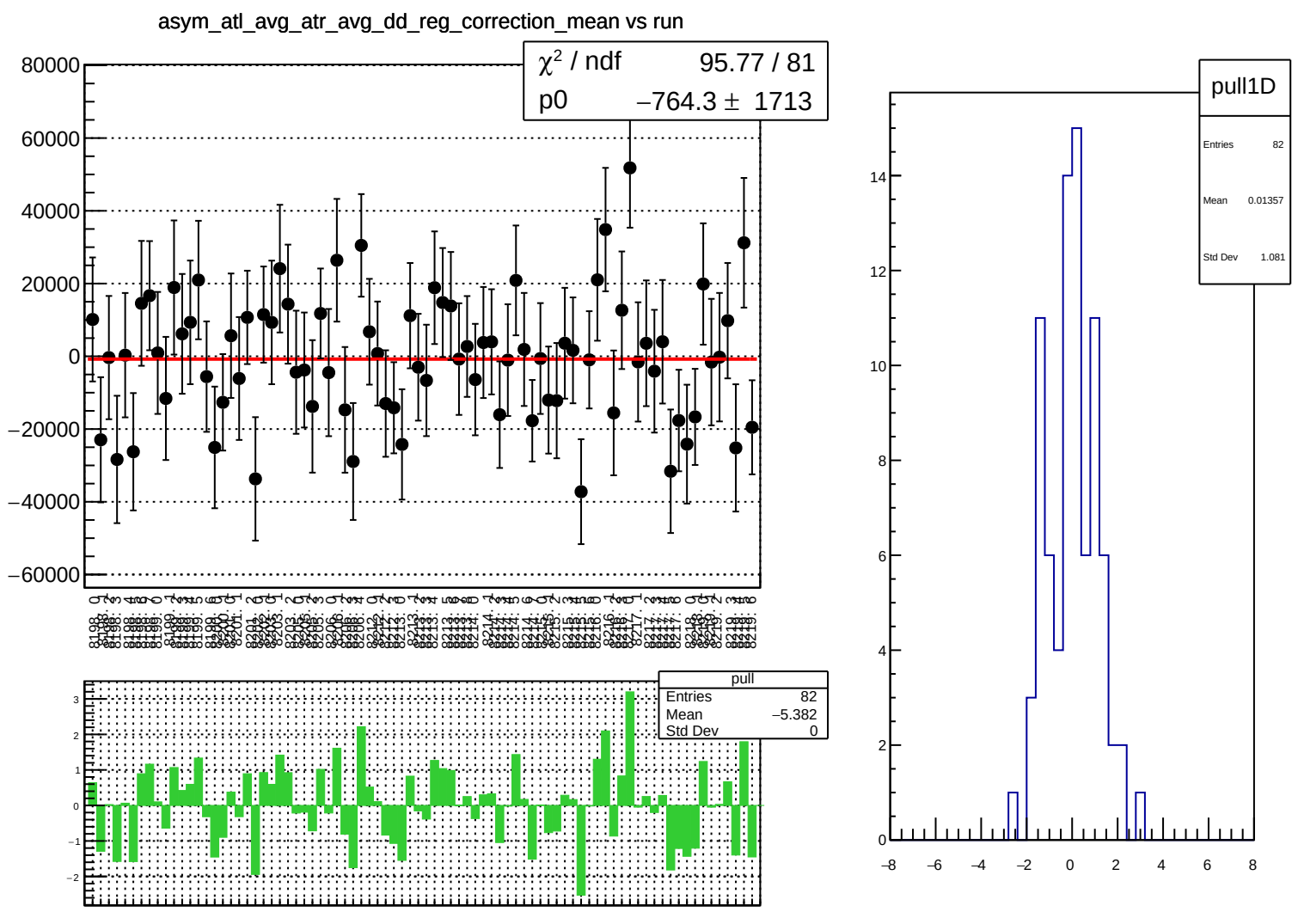

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.97 / 81
p0 5.098e−13 ± 5.543e−13
40
20
0
−20
−40
pull
Entries 82
Mean 28.81
Std Dev 26.45
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.09191
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

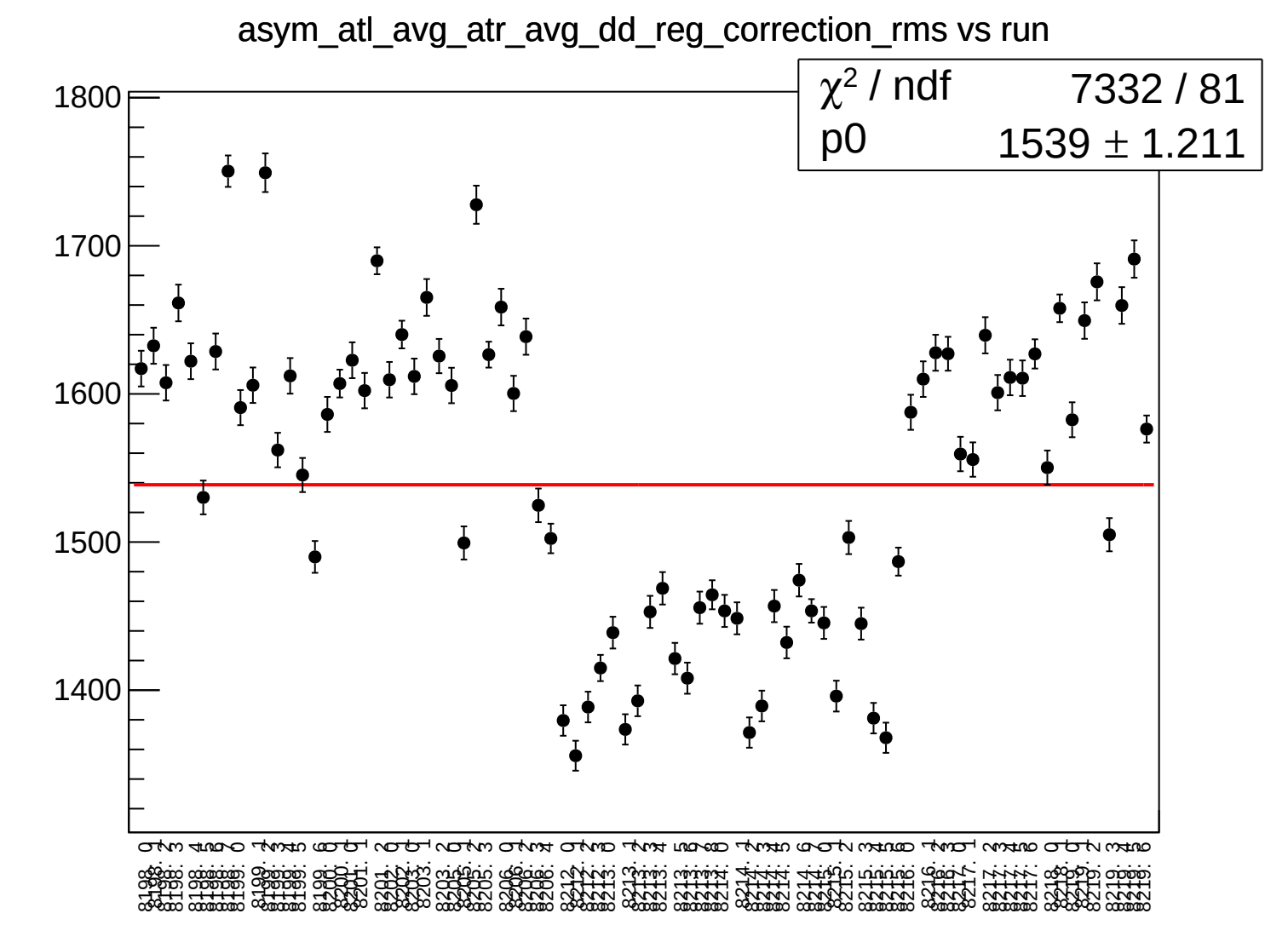

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.998e+05 / 81
p0 4.15e−10 ± 3.919e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

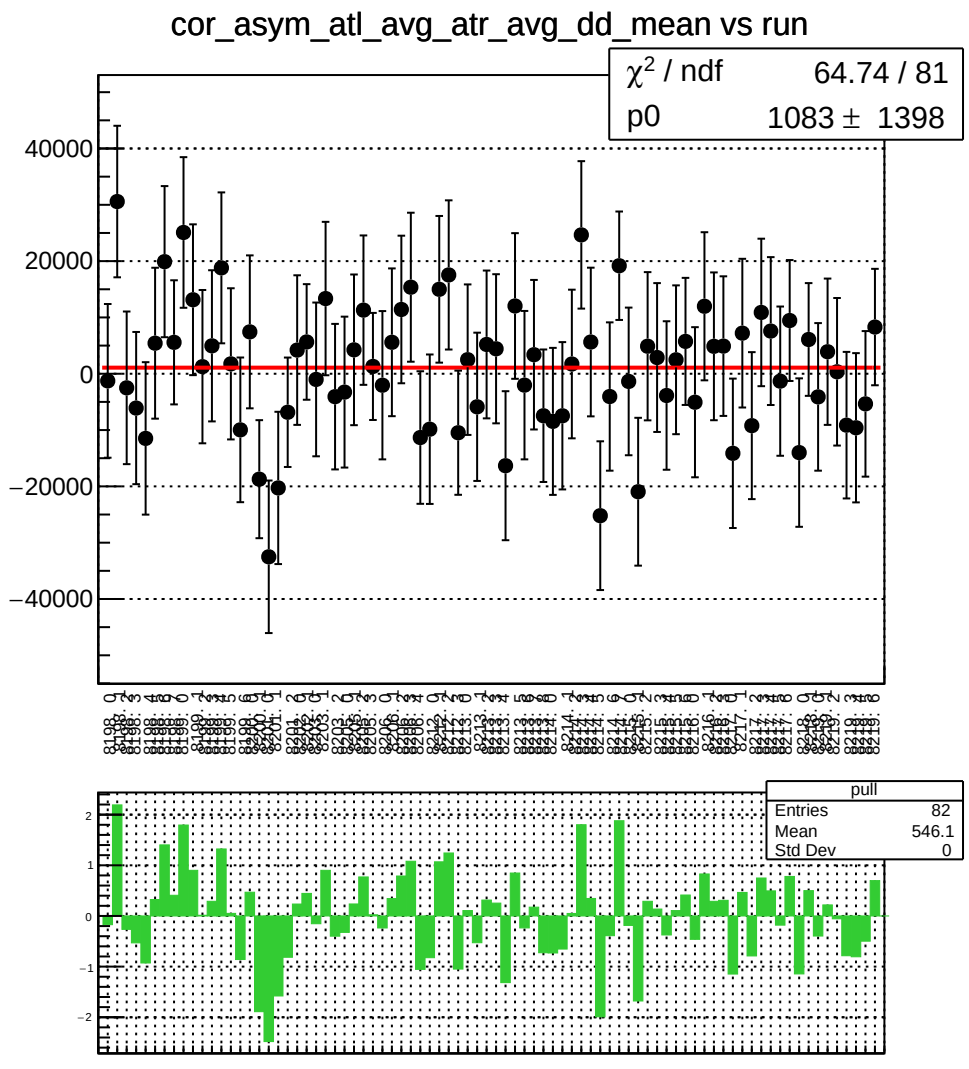

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 64.74 / 81
p0 1083 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 546.1
Std Dev 0
2
1
0
−1
−2

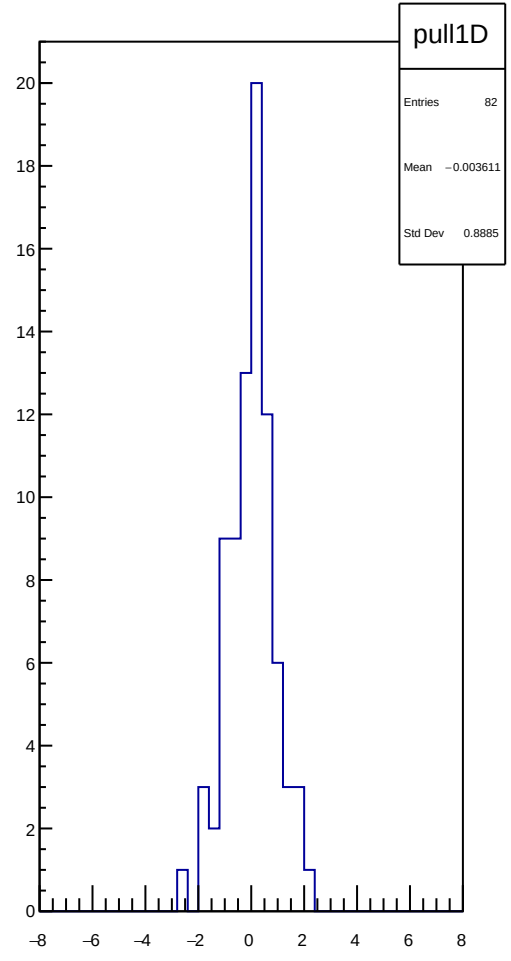

pull1D
Entries 82
Mean −0.003611
Std Dev 0.8885
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

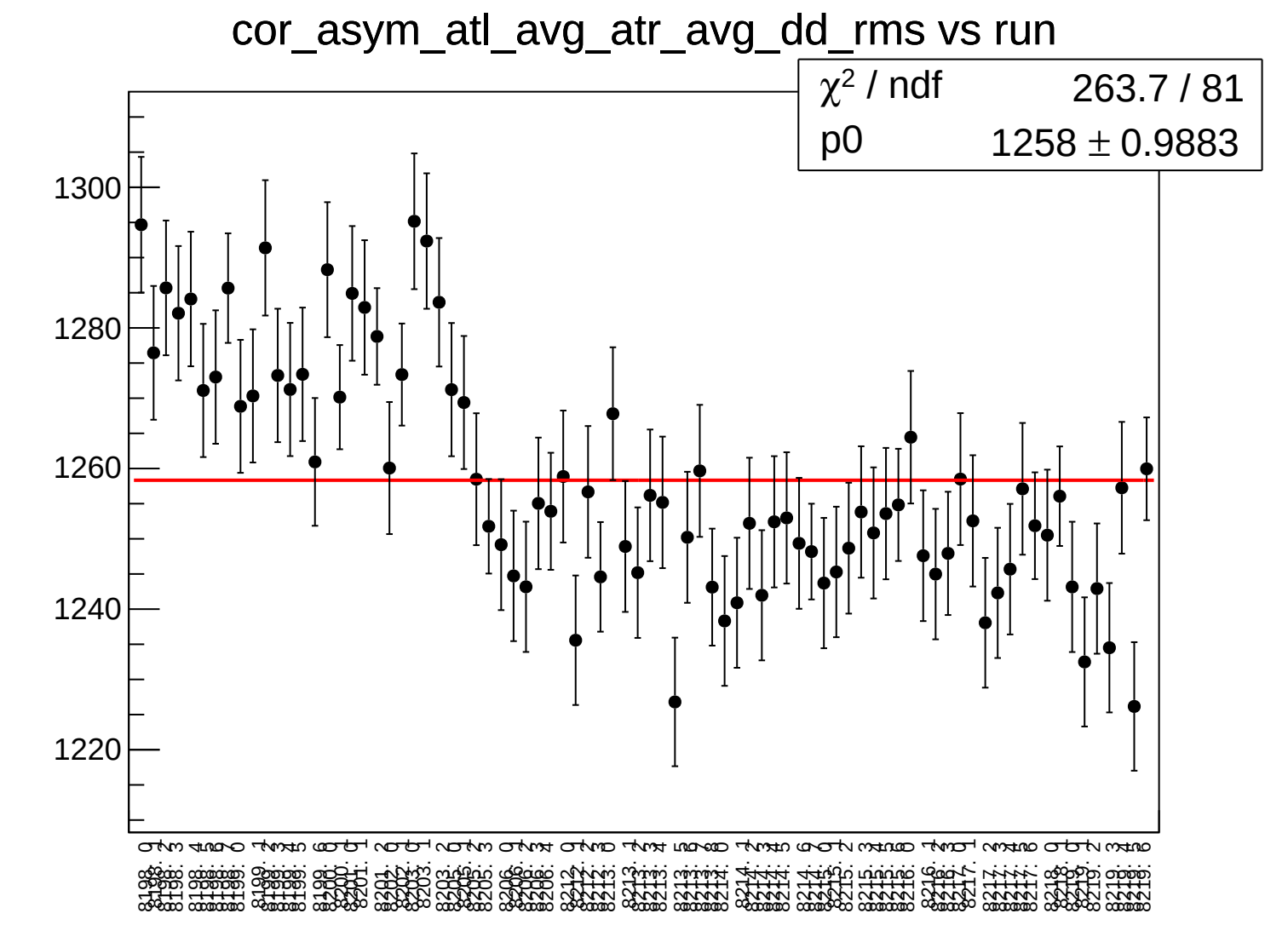

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 263.7 / 81
p0 1258 ± 0.9883
1300
1280
1260
1240
1220

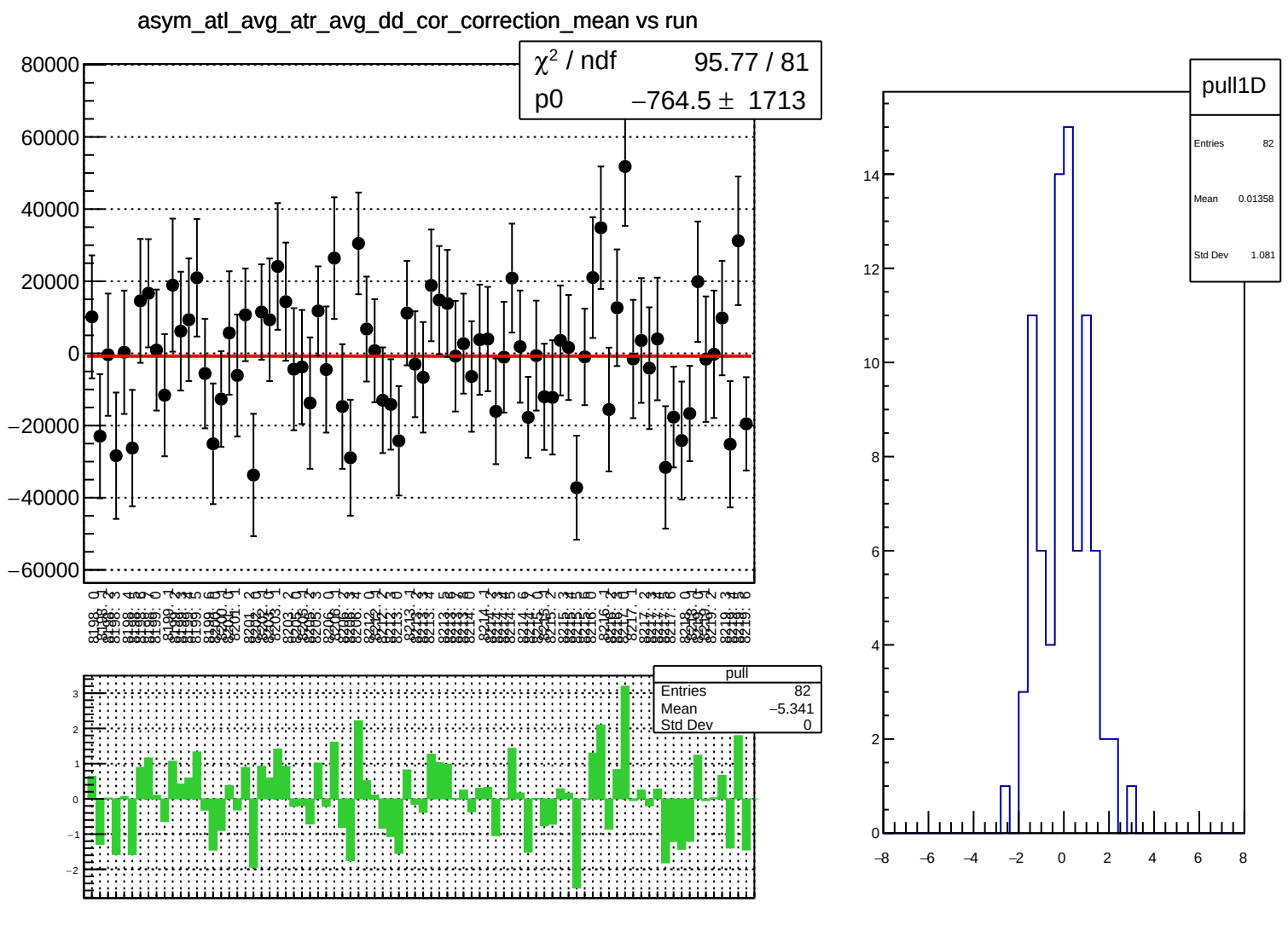

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 95.77 / 81
p0 −764.3 ± 1713
pull
Entries 82
Mean −5.382
Std Dev 0
pull1D
Entries 82
Mean 0.01357
Std Dev 1.081

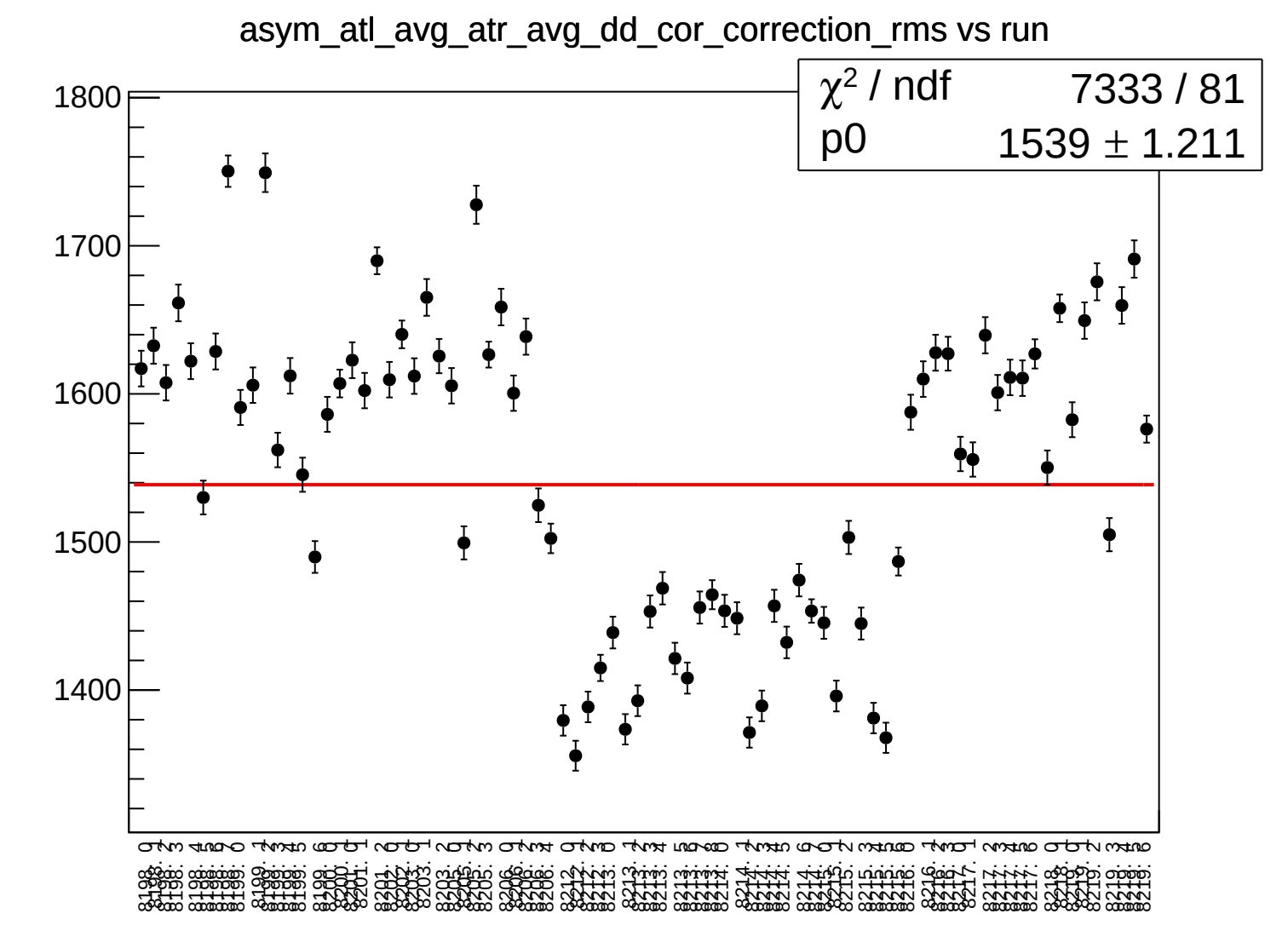

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 7332 / 81
p0 1539 ± 1.211
1800
1700
1600
1500
1400

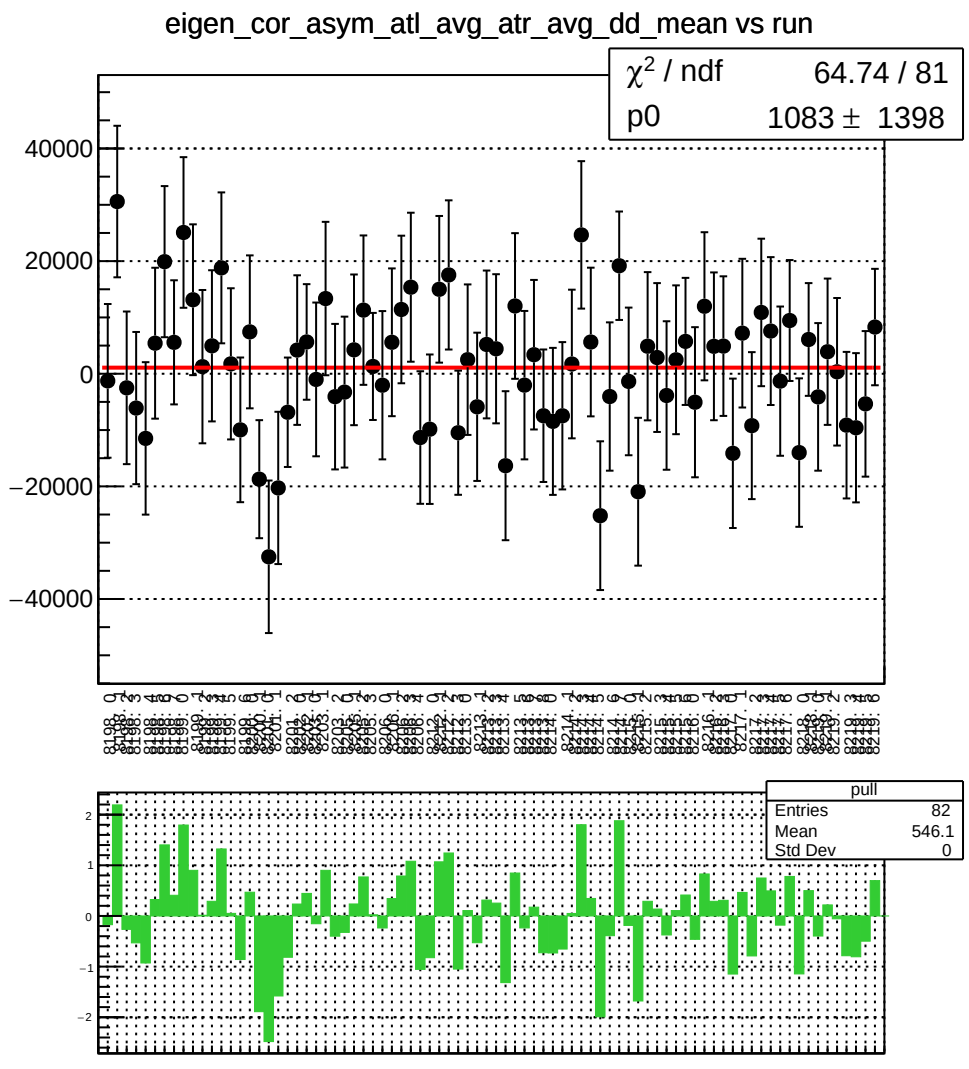

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 64.74 / 81
p0 1083 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 546.1
Std Dev 0
2
1
0
−1
−2

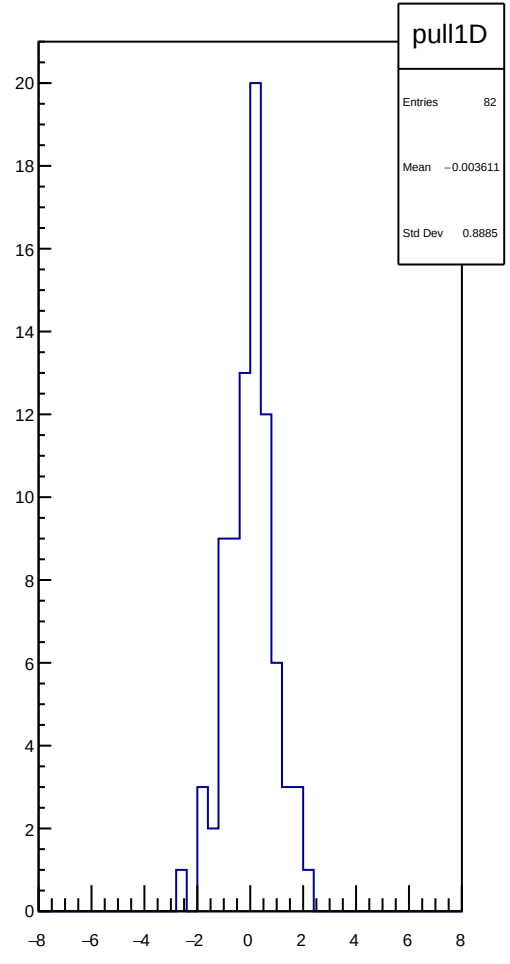

pull1D
Entries 82
Mean −0.003611
Std Dev 0.8885
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

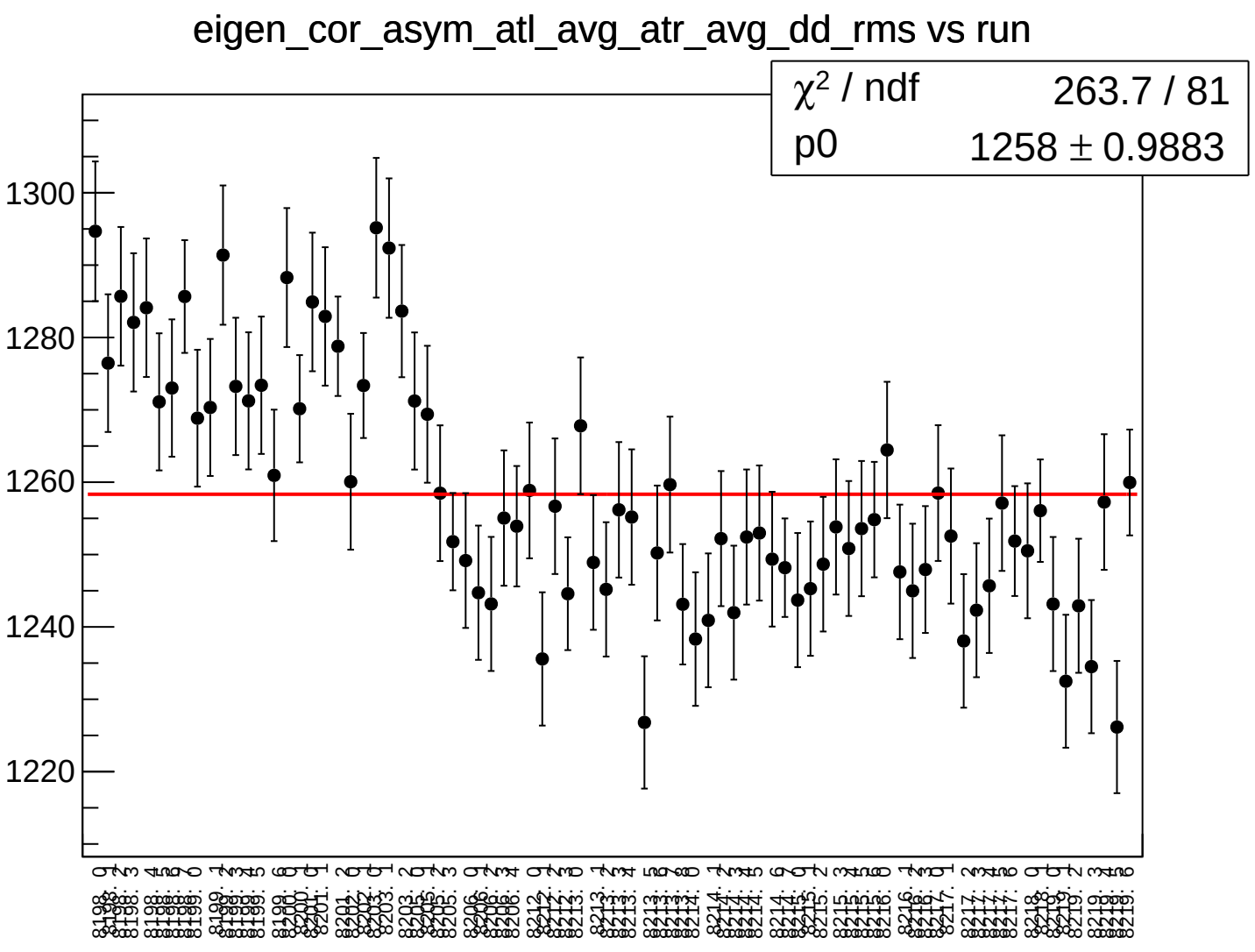

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 263.7 / 81
p0 1258 ± 0.9883
1300
1280
1260
1240
1220

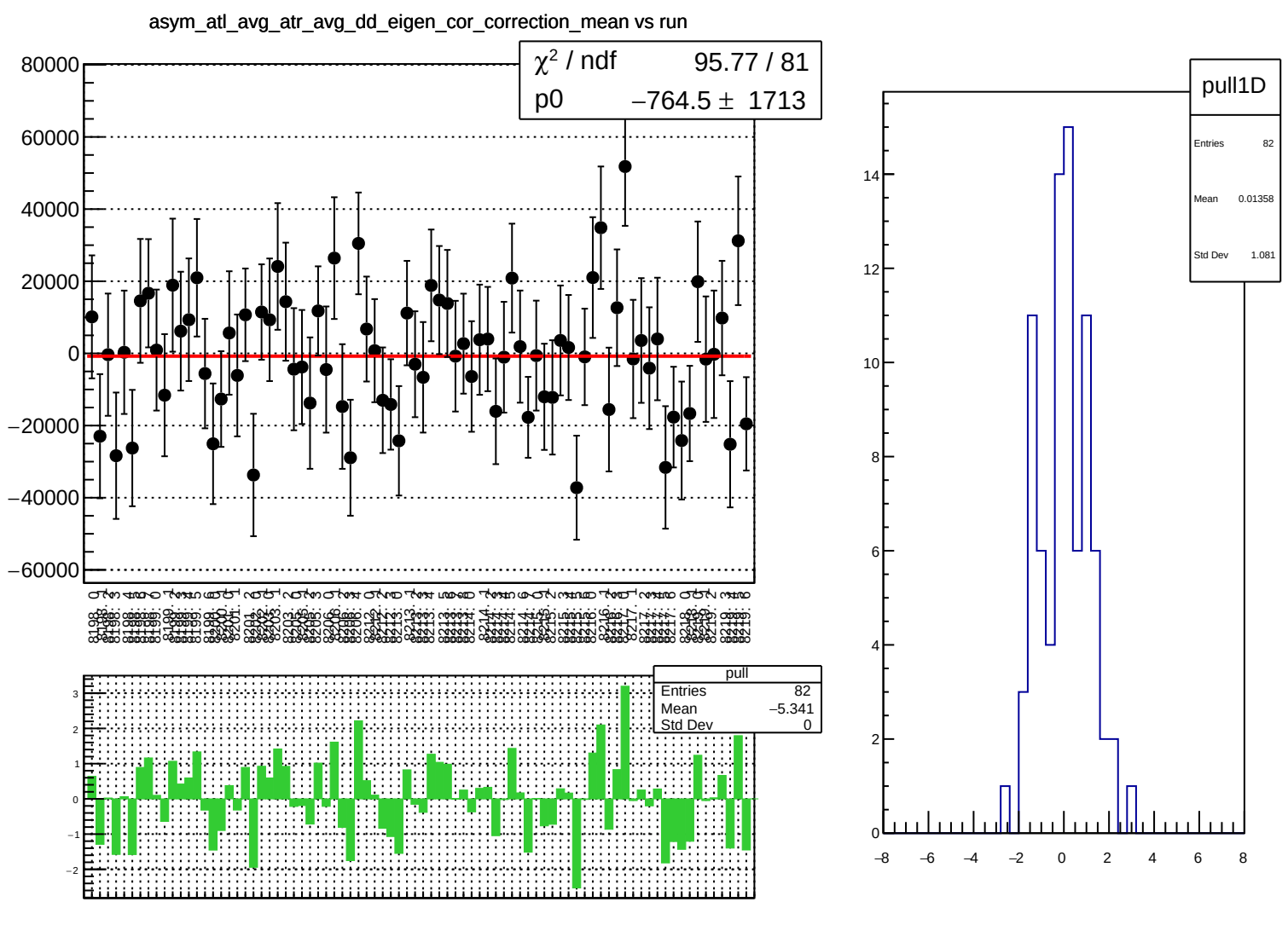

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 95.77 / 81
p0 −764.5 ± 1713
pull
Entries 82
Mean −5.341
Std Dev 0
pull1D
Entries 82
Mean 0.01358
Std Dev 1.081

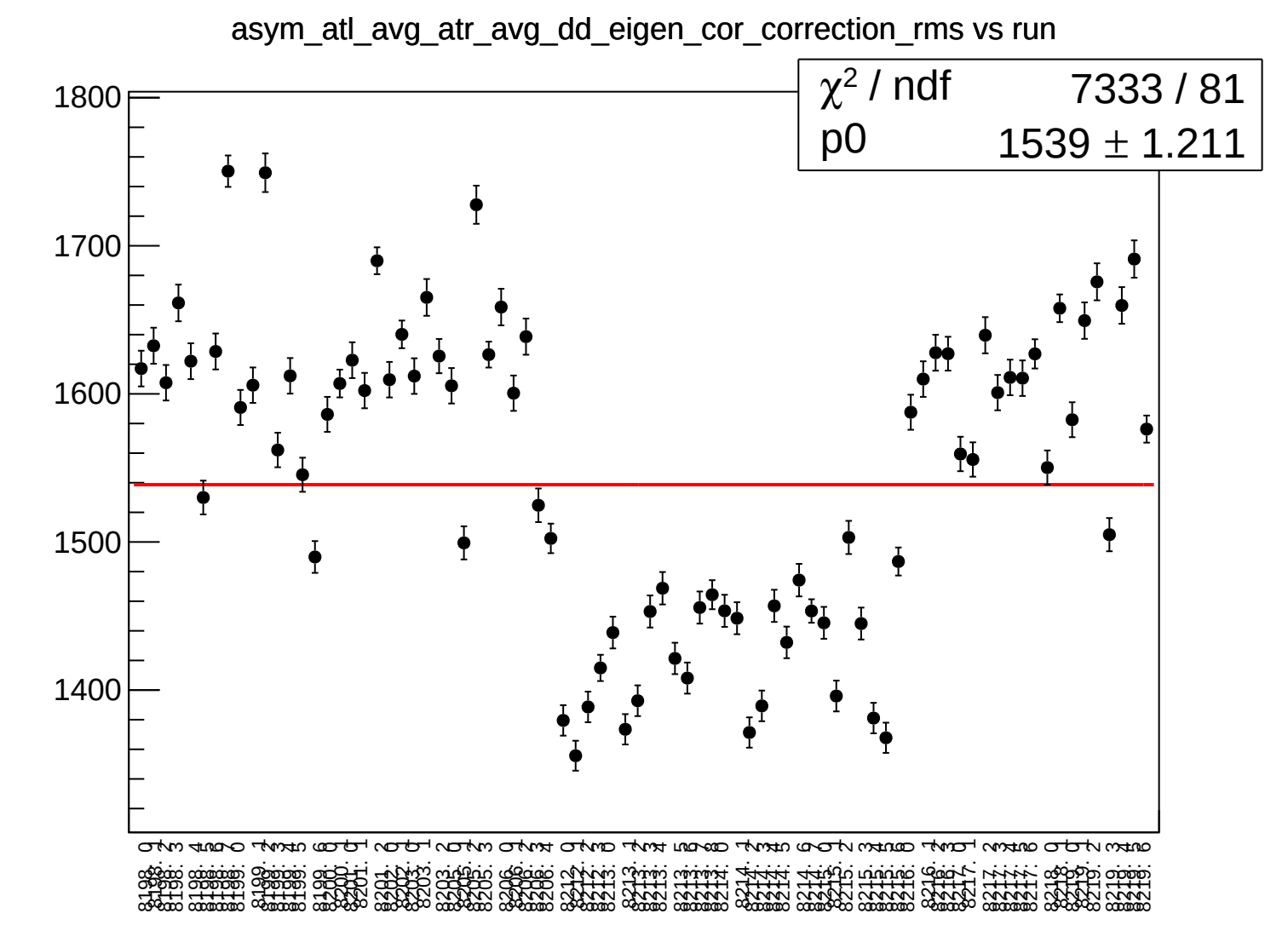

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 7333 / 81
p0 1539 ± 1.211
1800
1700
1600
1500
1400

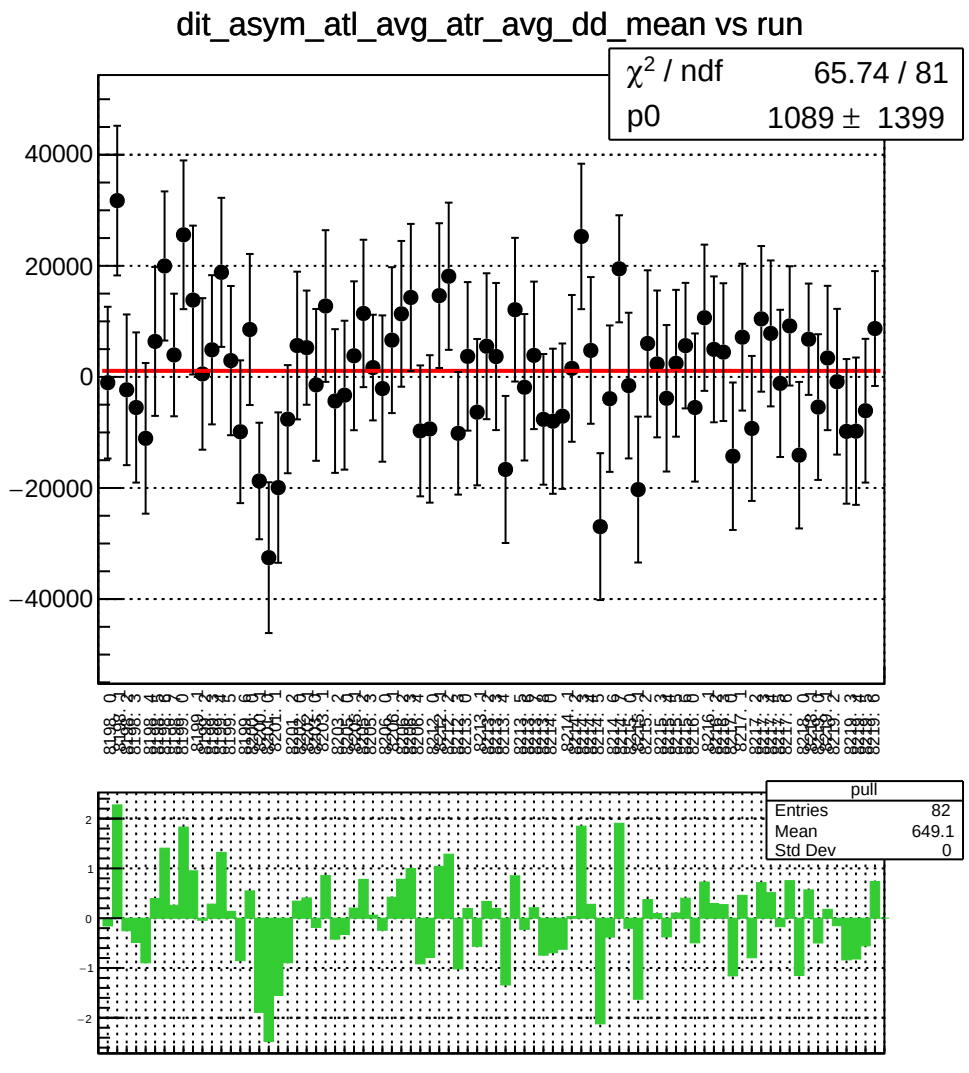

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 64.74 / 81
p0 1083 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 546.1
Std Dev 0
2
1
0
−1
−2

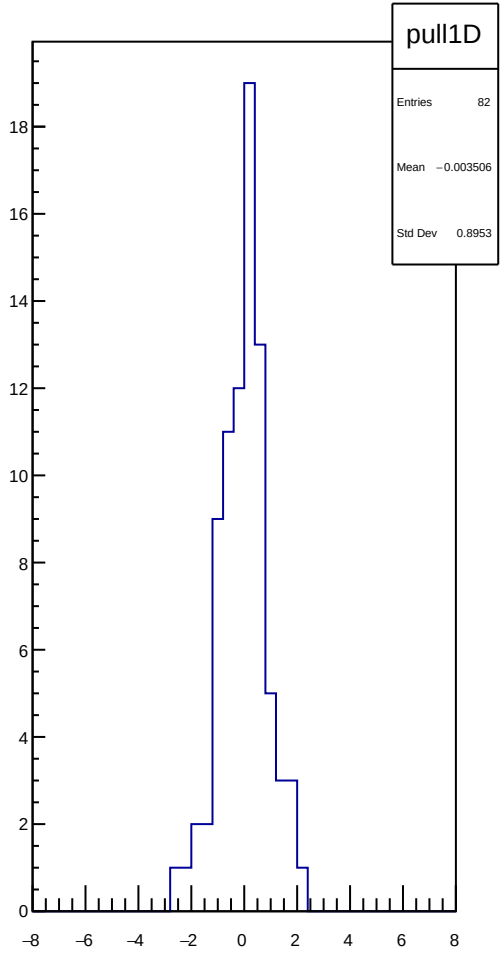

pull1D
Entries 82
Mean −0.003611
Std Dev 0.8885
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

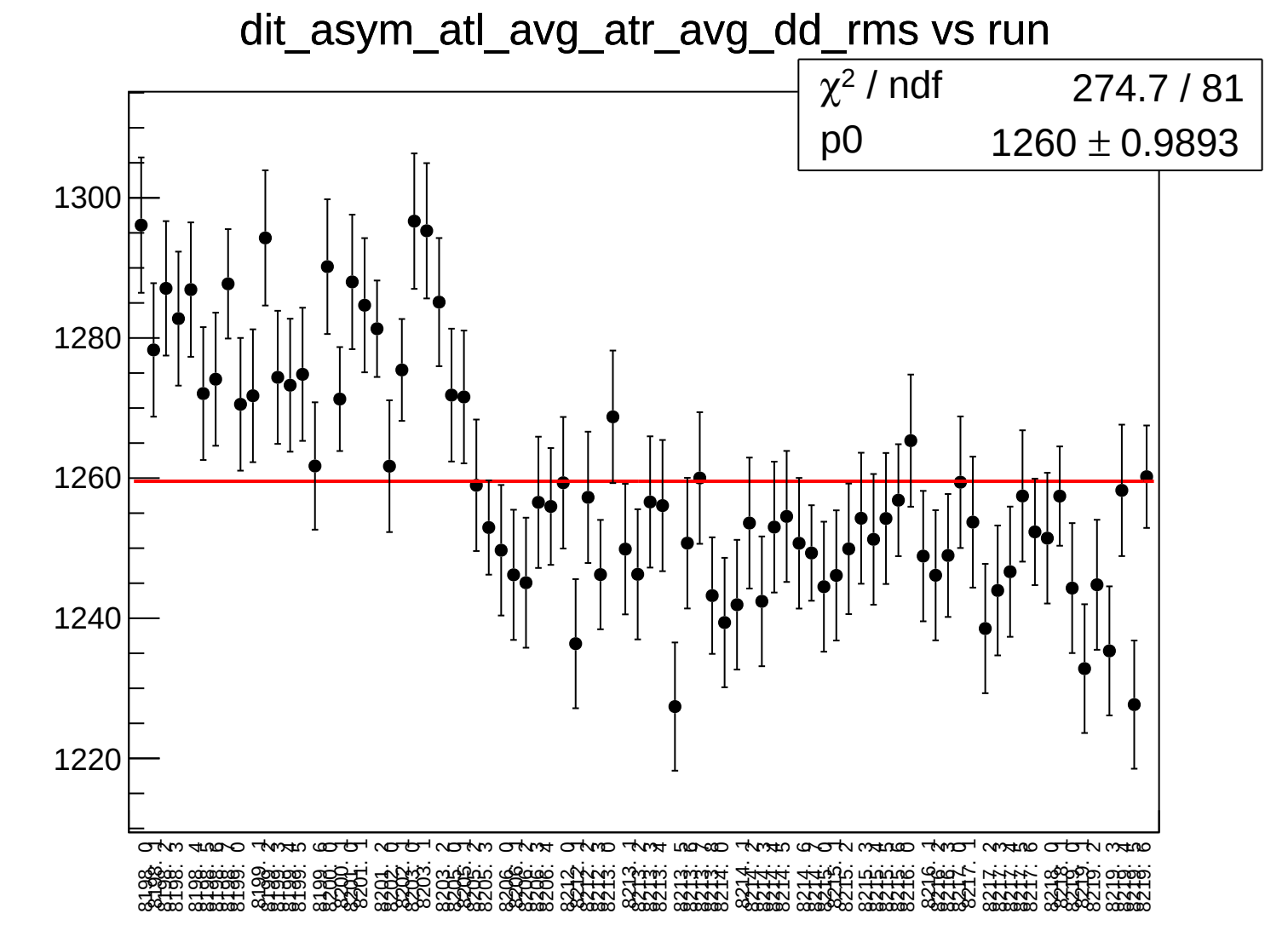

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 263.7 / 81
p0 1258 ± 0.9883
1300
1280
1260
1240
1220

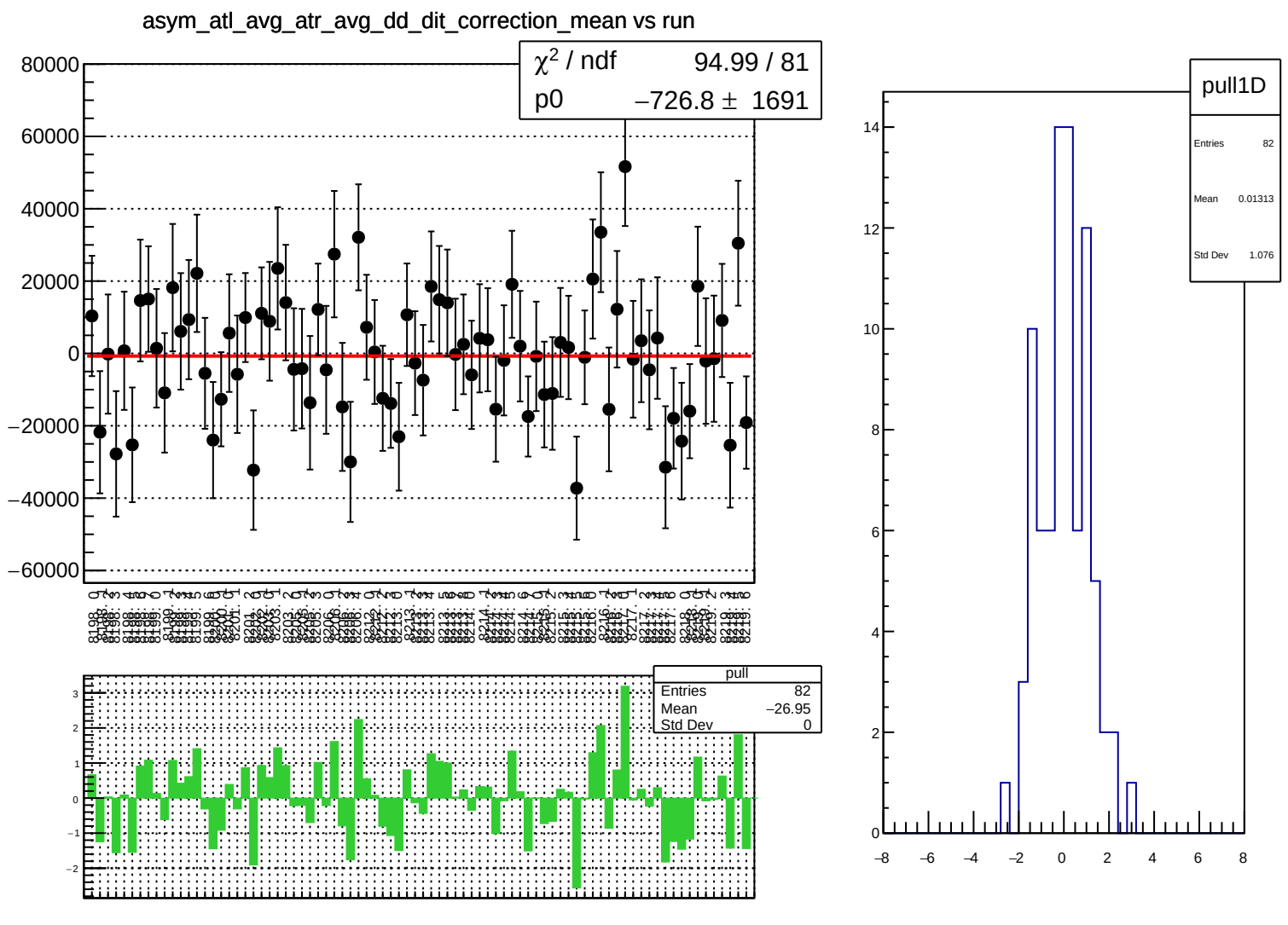

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.77 / 81
p0 −764.5 ± 1713
pull
Entries 82
Mean −5.341
Std Dev 0
pull1D
Entries 82
Mean 0.01358
Std Dev 1.081

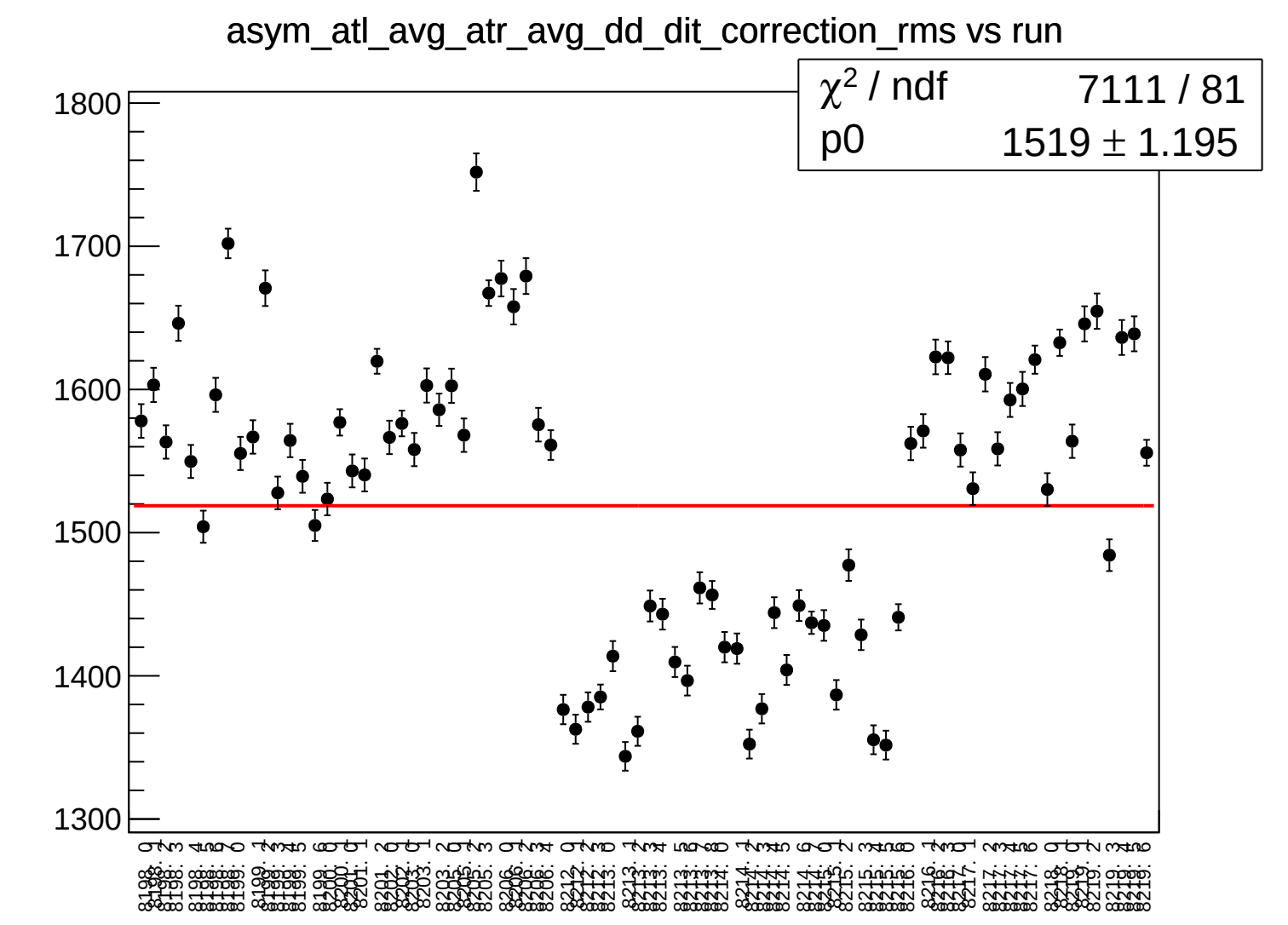

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7333 / 81
p0 1539 ± 1.211
1800
1700
1600
1500
1400

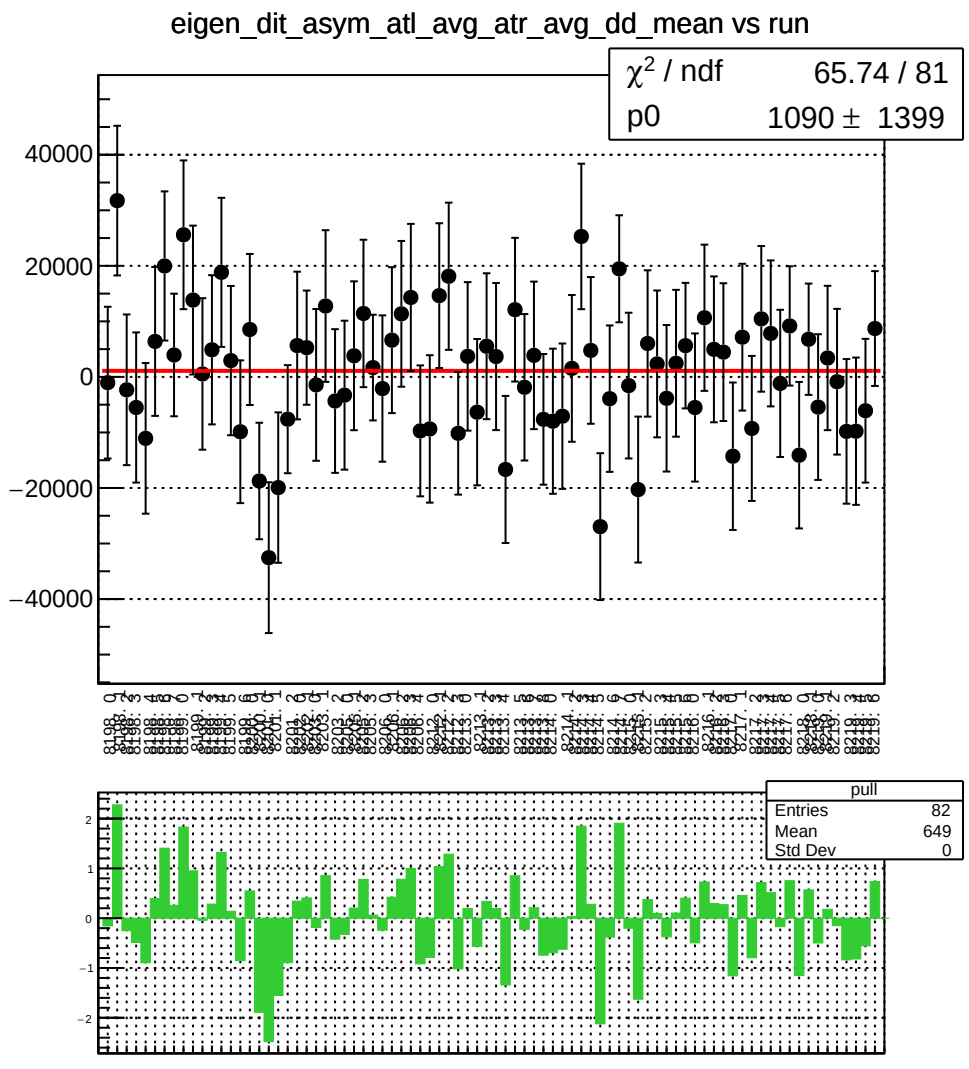

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 65.74 / 81
p0 1089 ± 1399
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 649.1
Std Dev 0
2
1
0
−1
−2

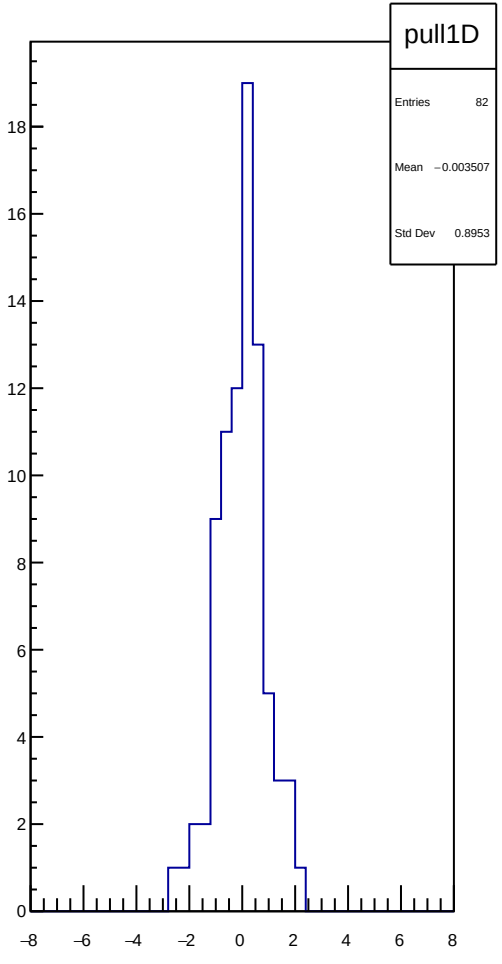

pull1D
Entries 82
Mean −0.003506
Std Dev 0.8953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

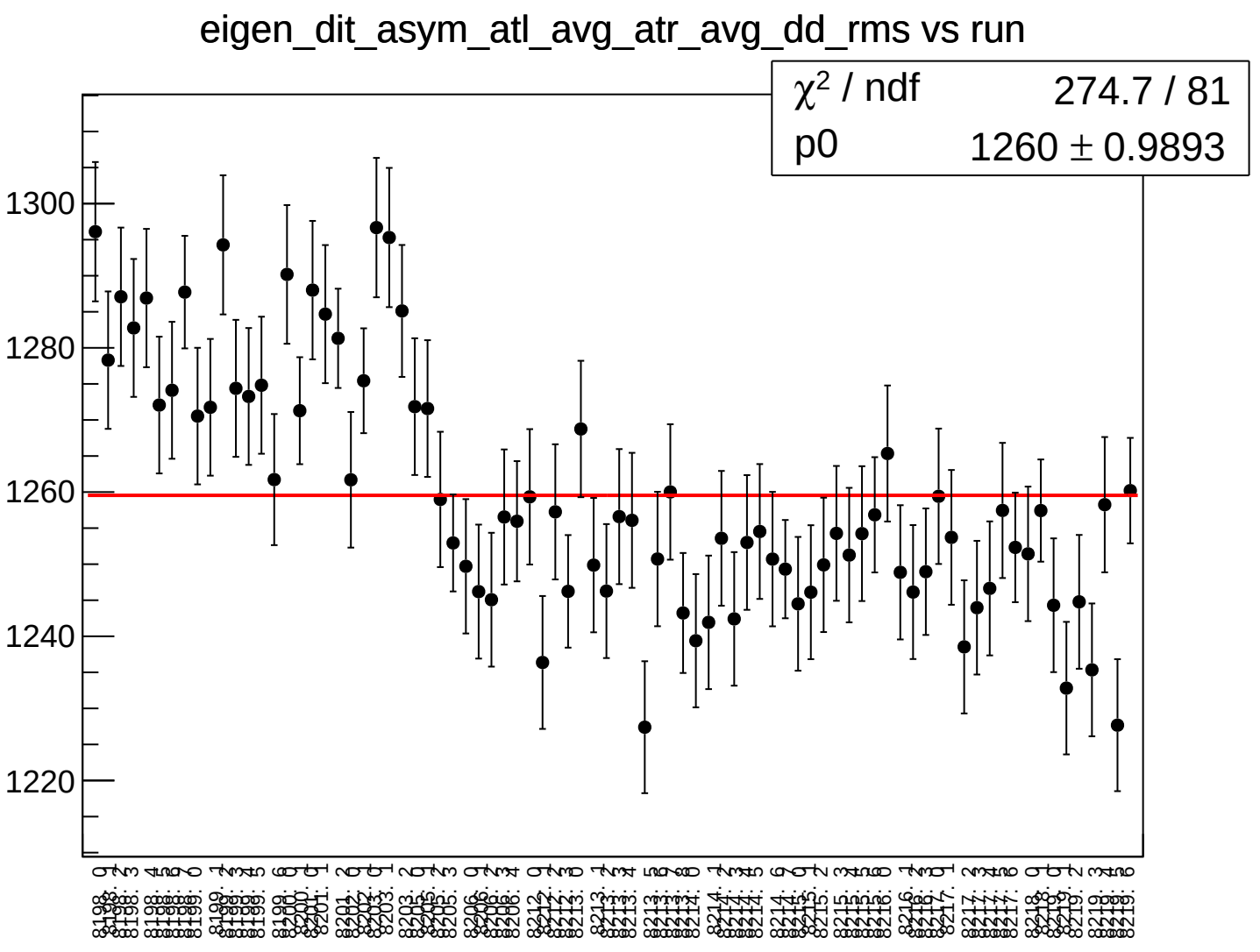

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 274.7 / 81
p0 1260 ± 0.9893
1300
1280
1260
1240
1220

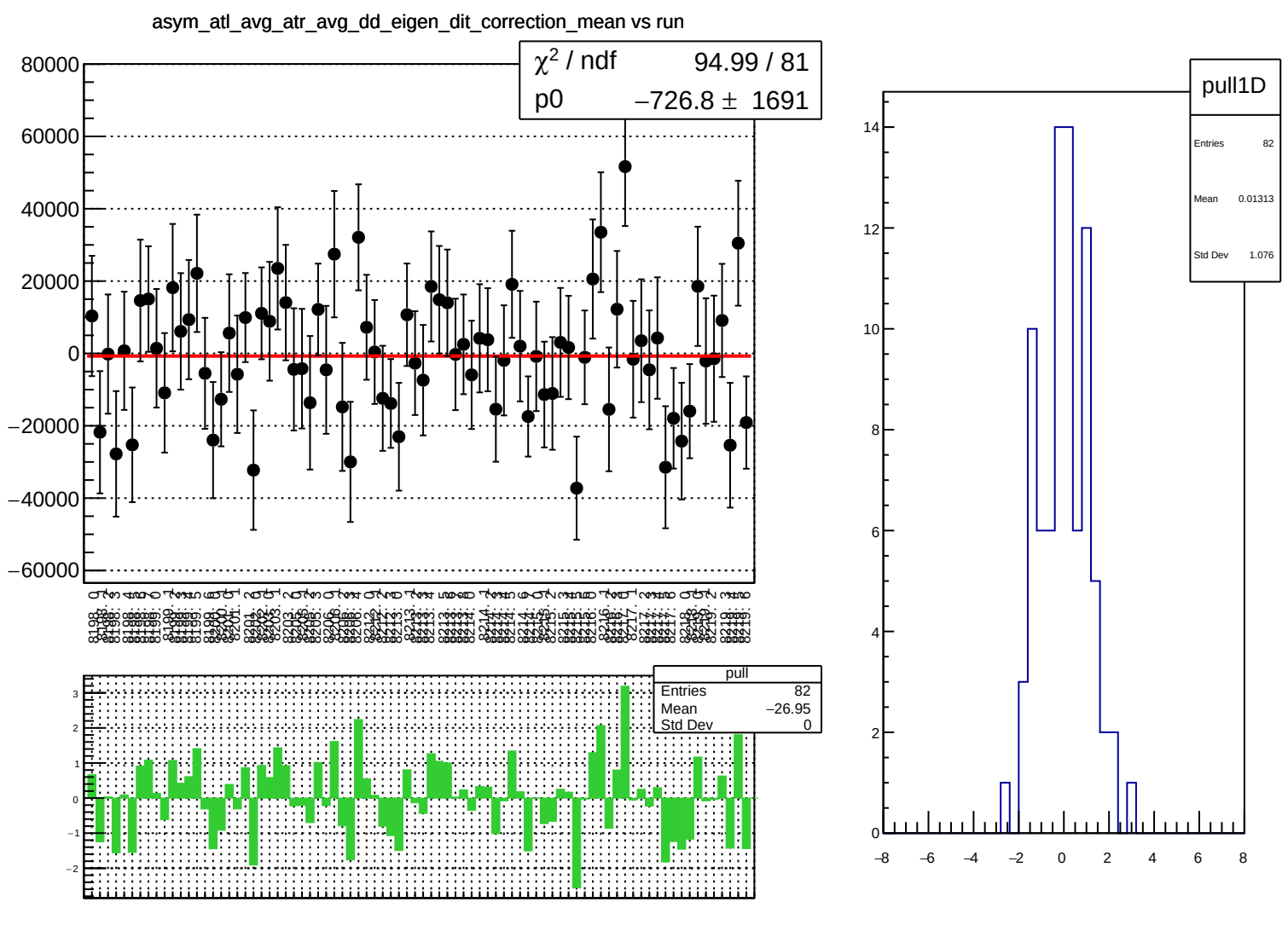

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 94.99 / 81
p0 −726.8 ± 1691
pull
Entries 82
Mean −26.95
Std Dev 0
pull1D
Entries 82
Mean 0.01313
Std Dev 1.076

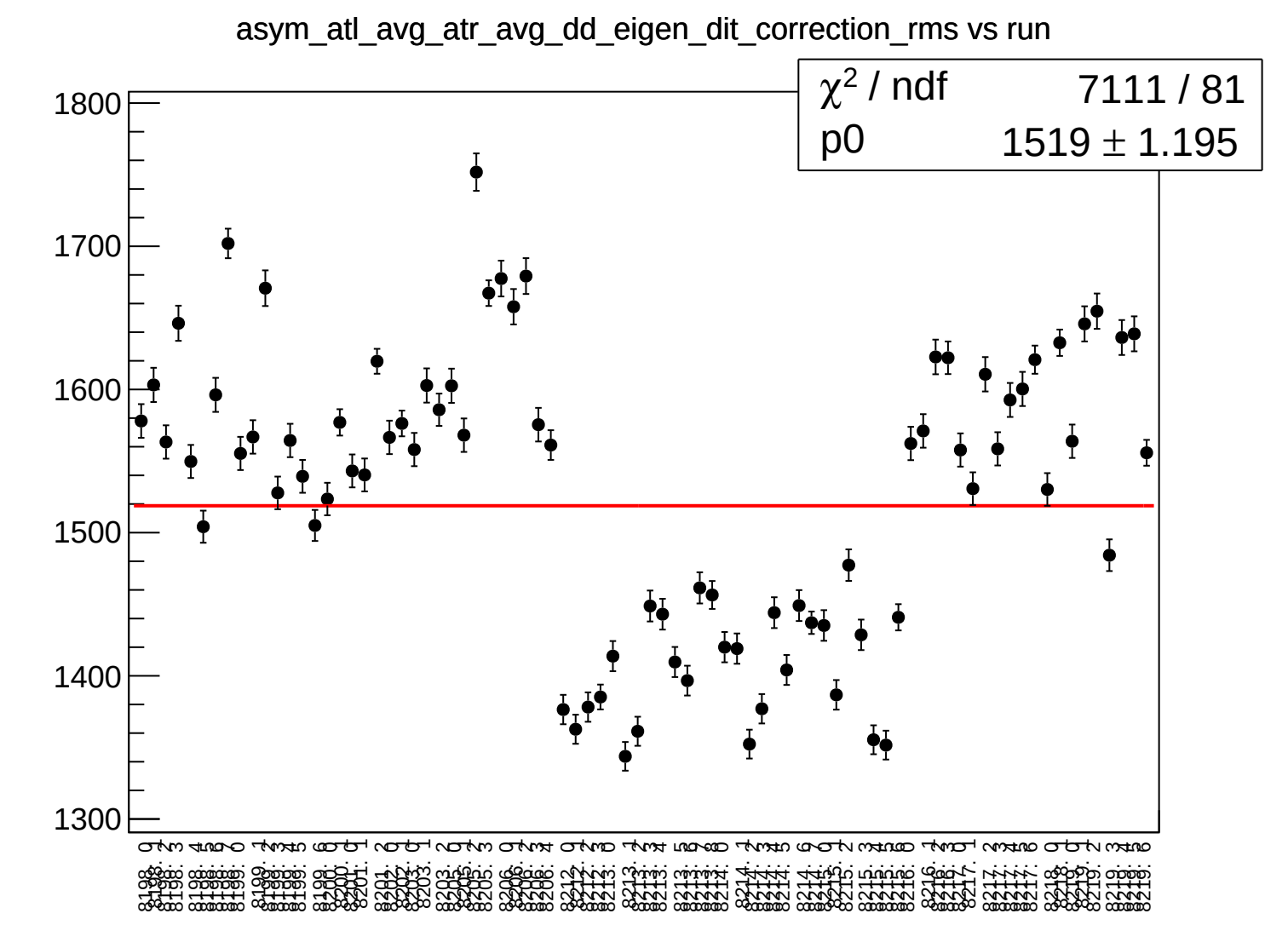

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 7111 / 81
p0 1519 ± 1.195
1800
1700
1600
1500
1400
1300

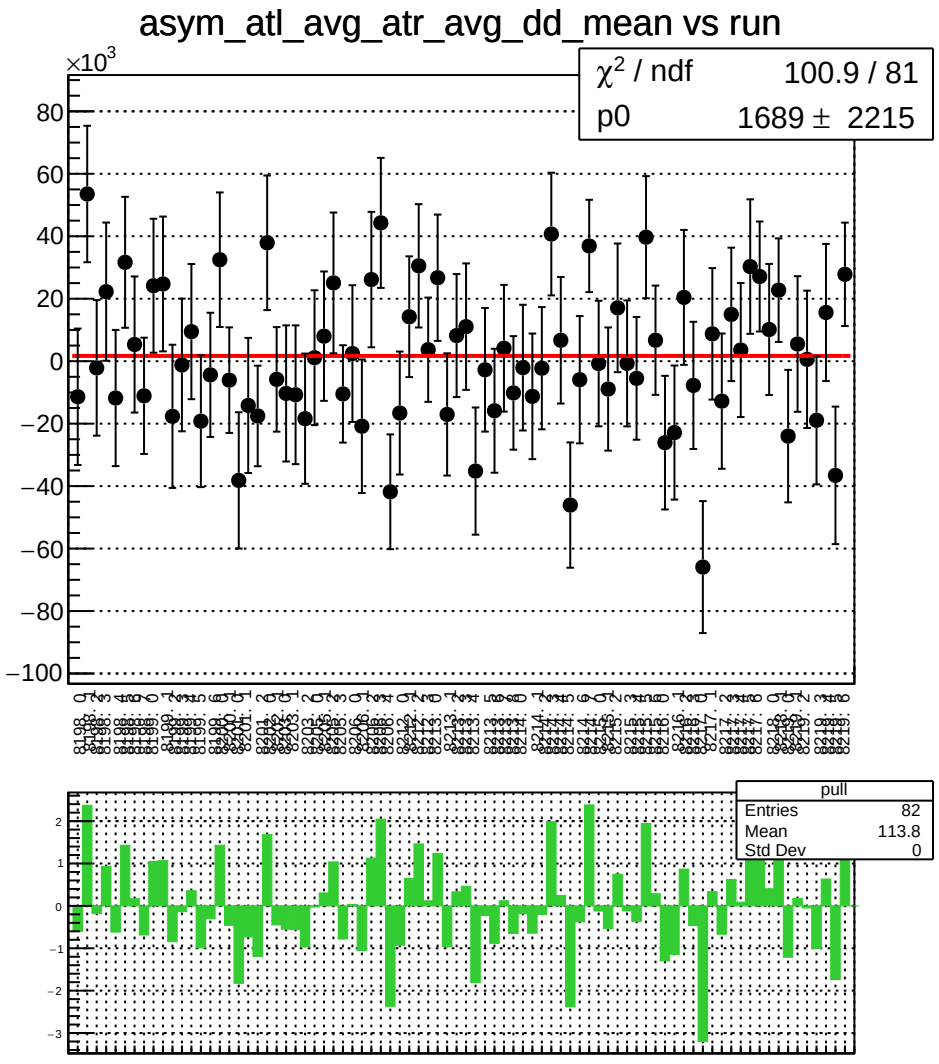

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 65.74 / 81
p0 1090 ± 1399
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 649
Std Dev 0
2
1
0
−1
−2

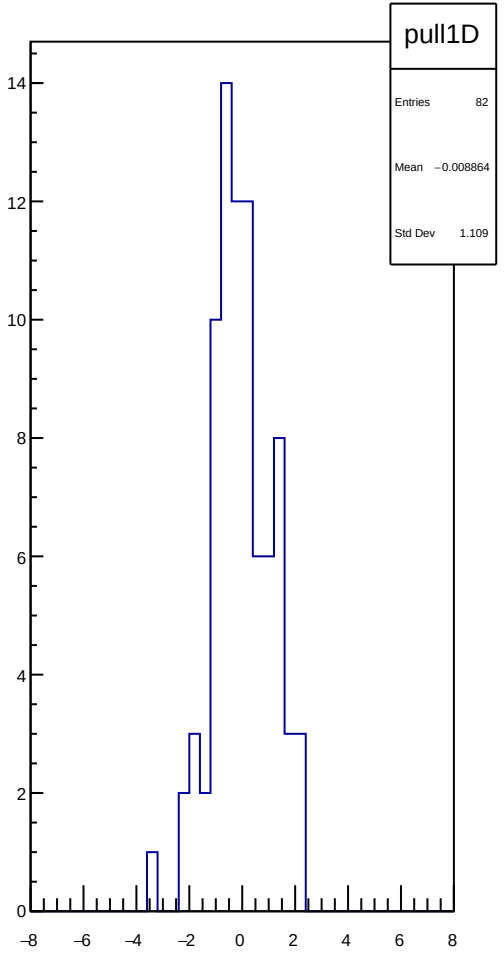

pull1D
Entries 82
Mean −0.003507
Std Dev 0.8953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

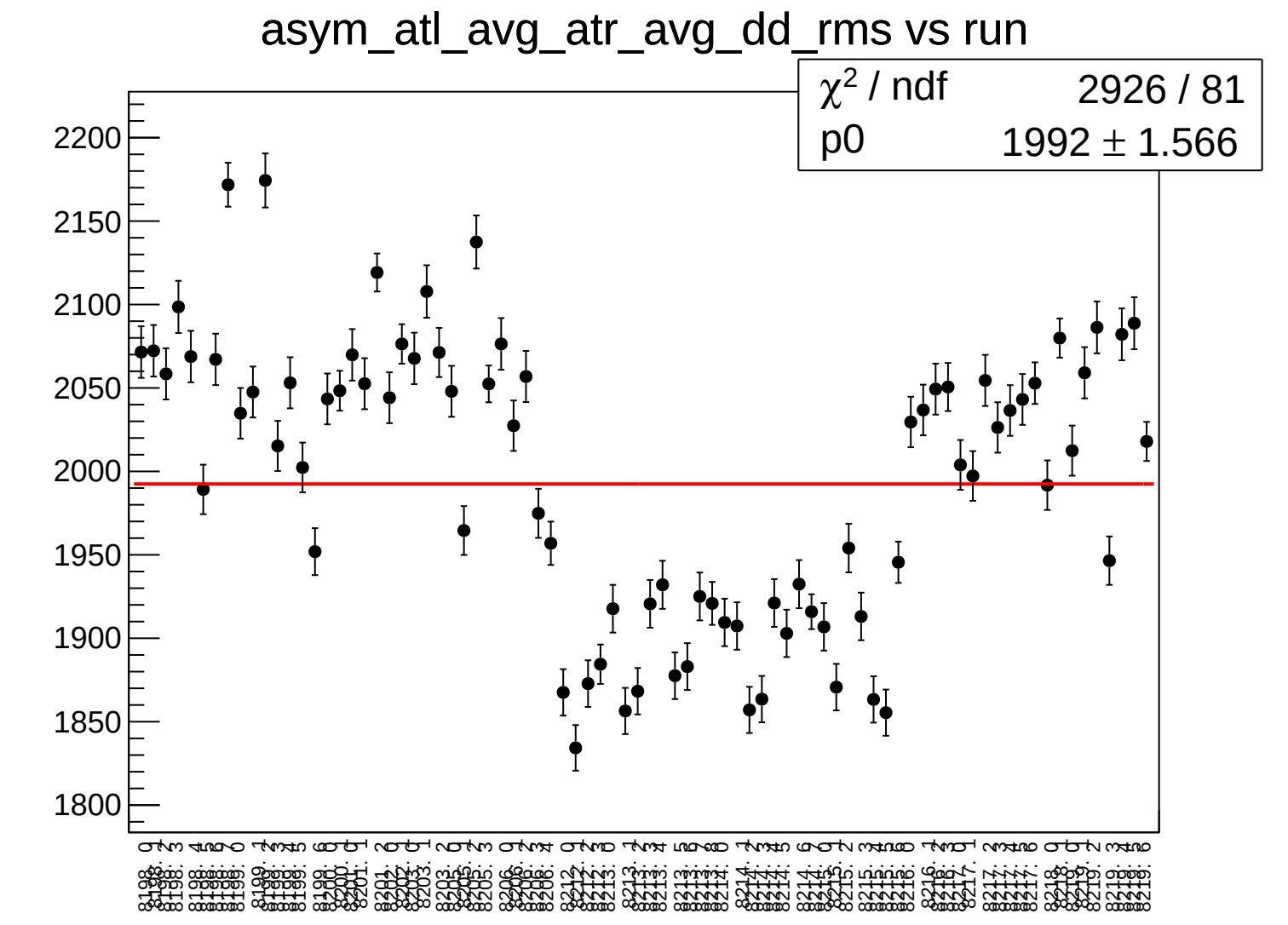

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 274.7 / 81
p0 1260 ± 0.9893
1300
1280
1260
1240
1220

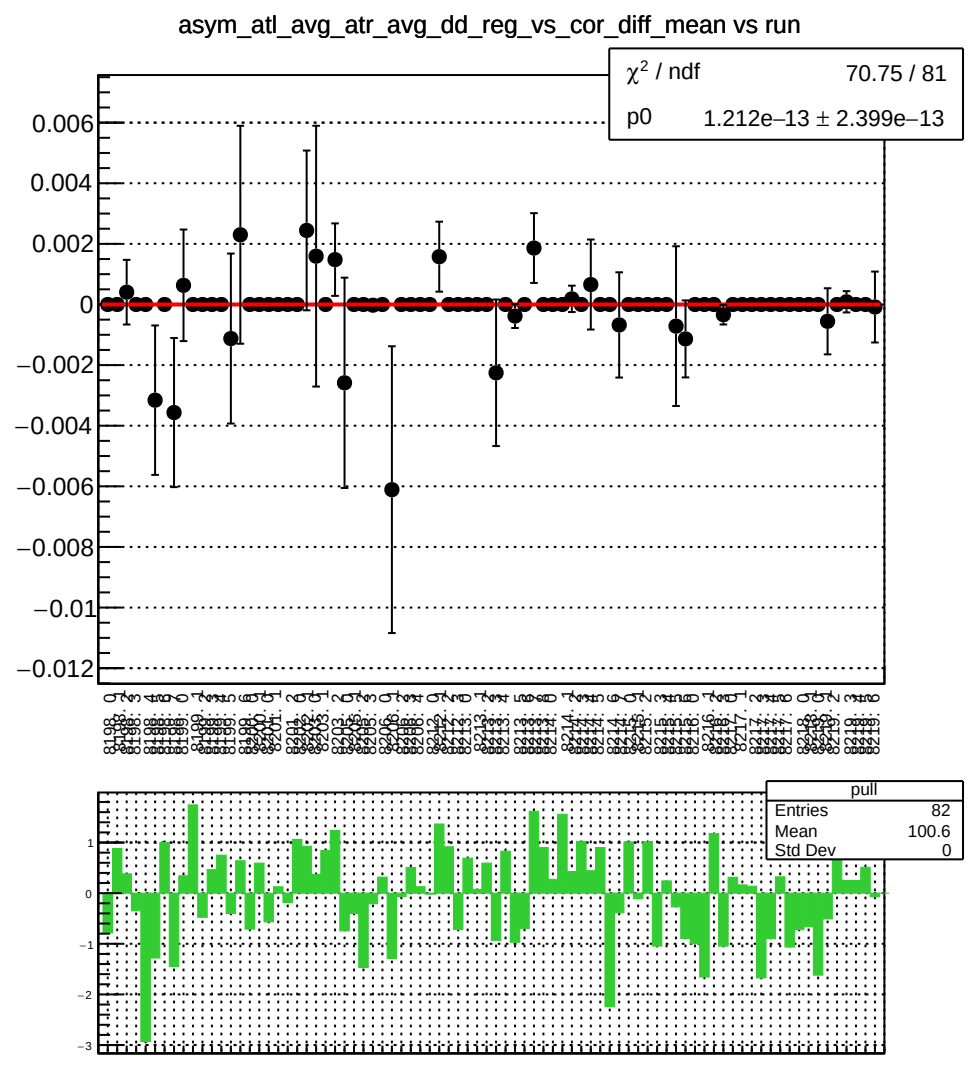

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.99 / 81
p0 −726.8 ± 1691
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −26.95
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01313
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

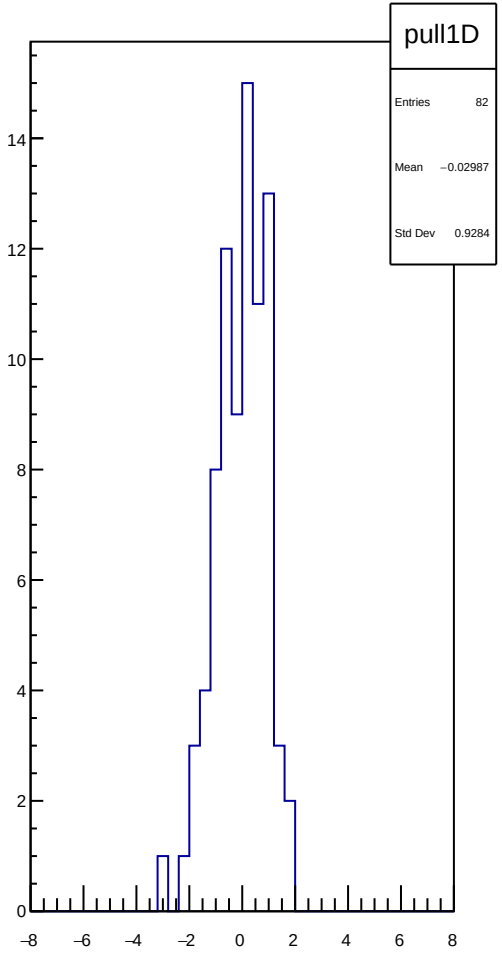

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7111 / 81
p0 1519 ± 1.195
1800
1700
1600
1500
1400
1300

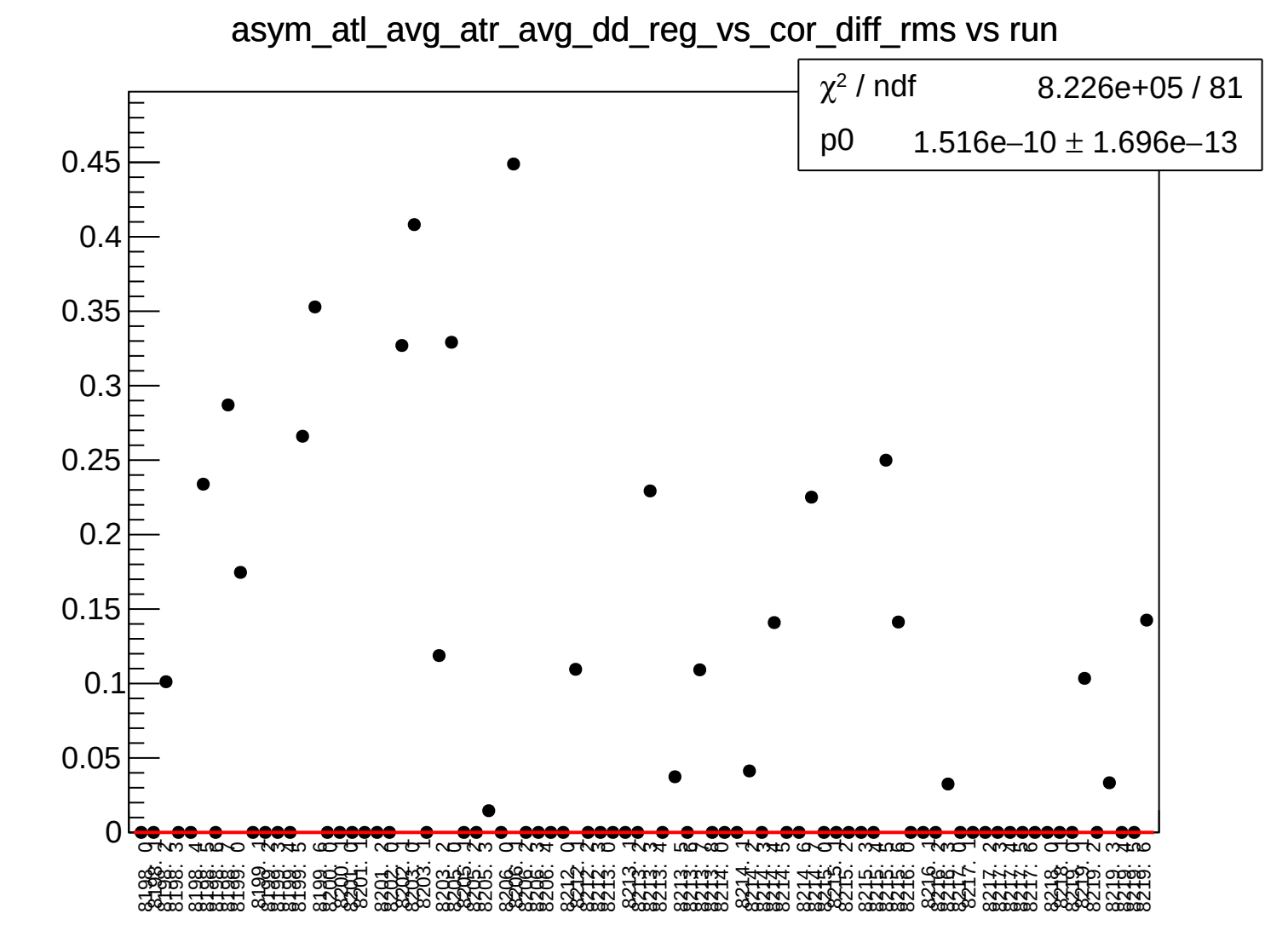

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 100.9 / 81
p0 1689 ± 2215
×10³
pull
Entries 82
Mean 113.8
Std Dev 0

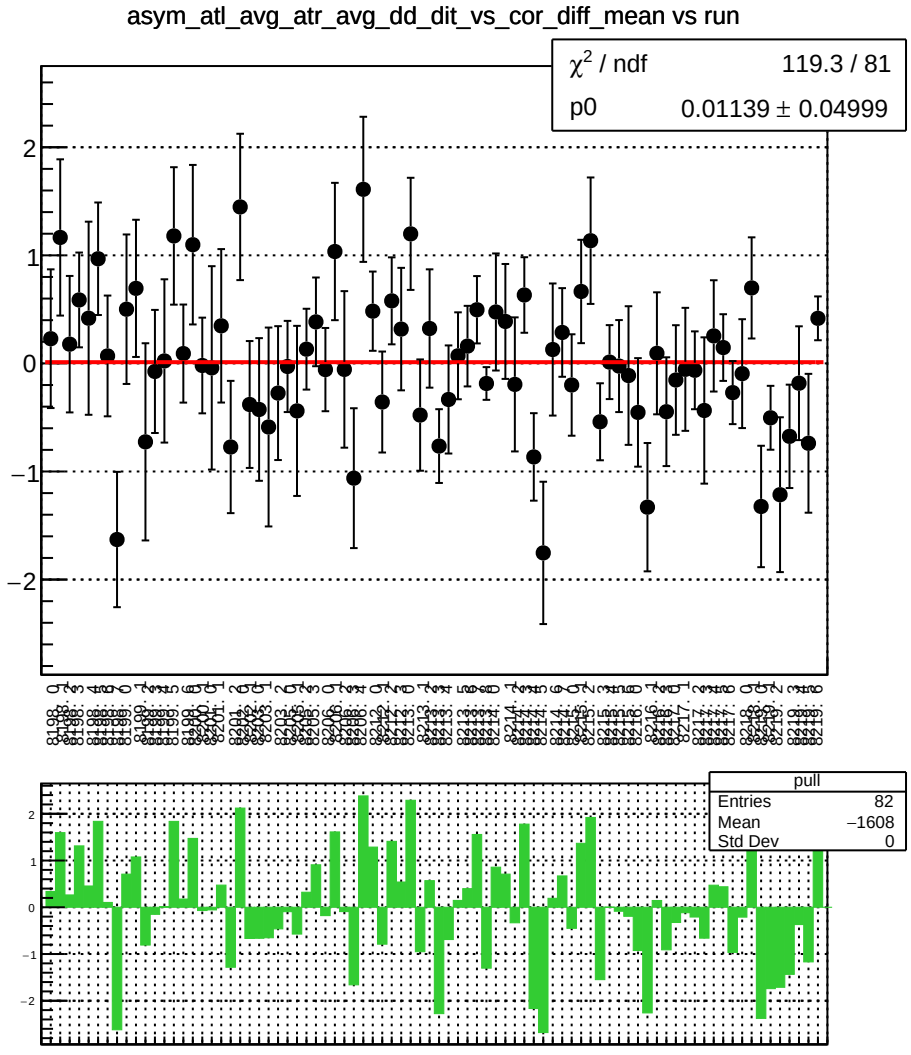

pull1D
Entries 82
Mean −0.008864
Std Dev 1.109

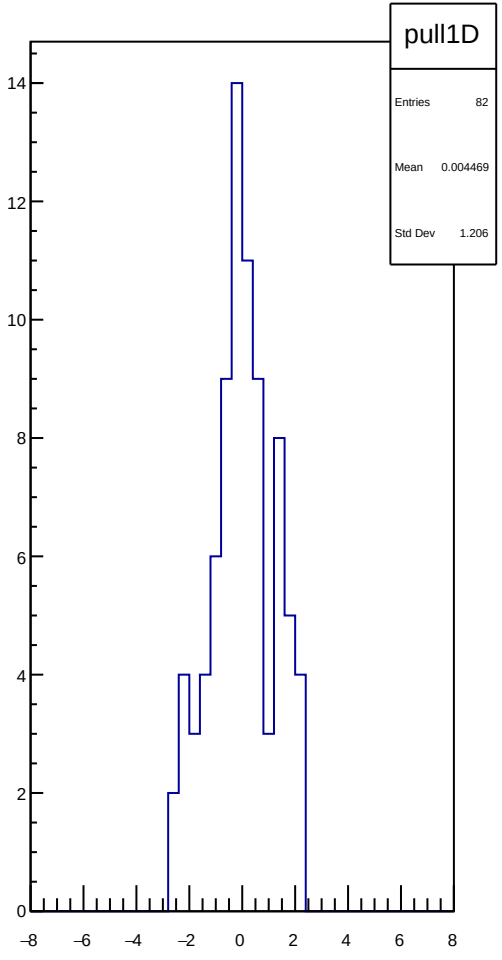

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2926 / 81
p0 1992 ± 1.566
2200
2150
2100
2050
2000
1950
1900
1850
1800

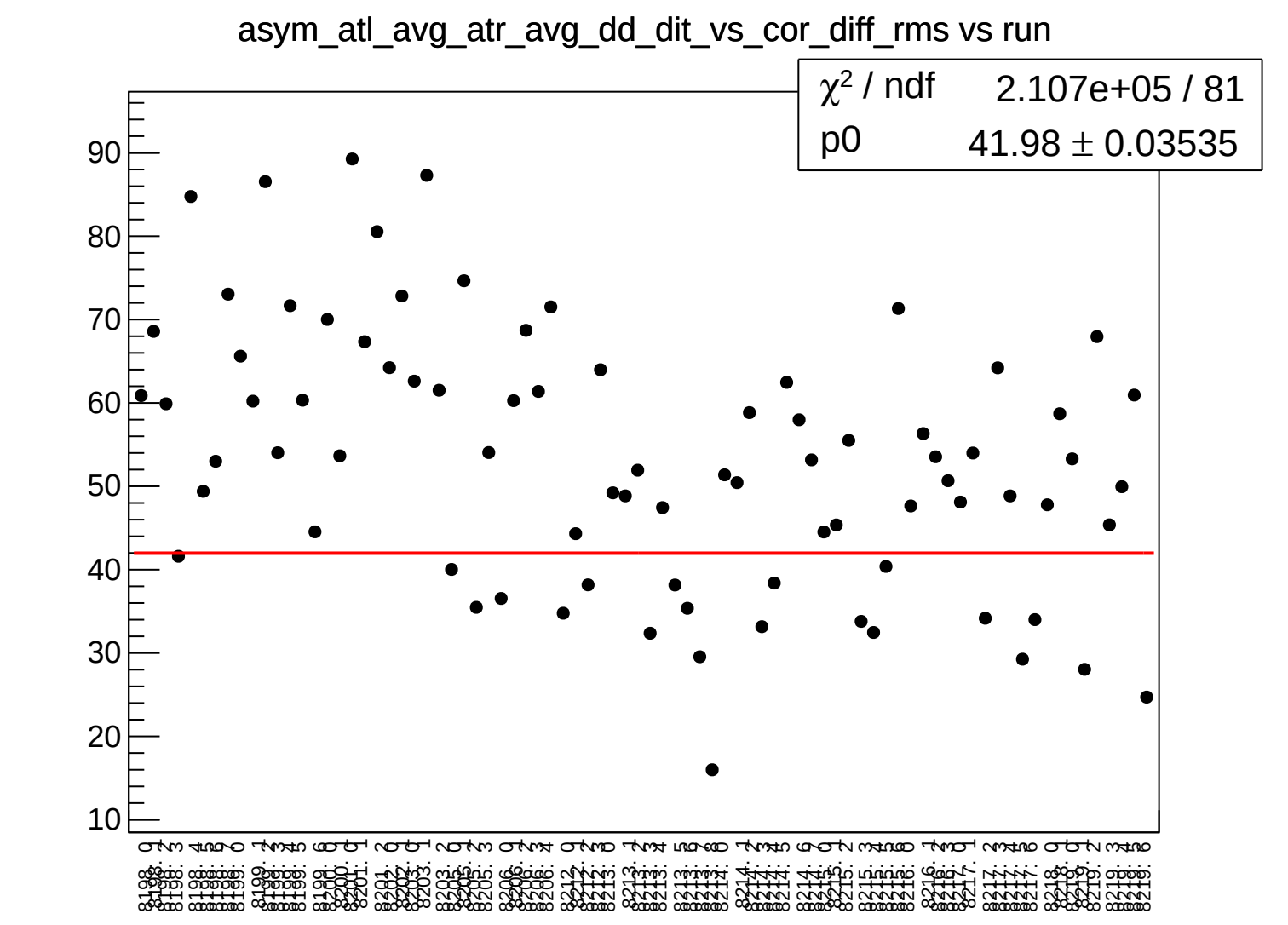

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.75 / 81
p0 1.212e−13 ± 2.399e−13
pull
Entries 82
Mean 100.6
Std Dev 0

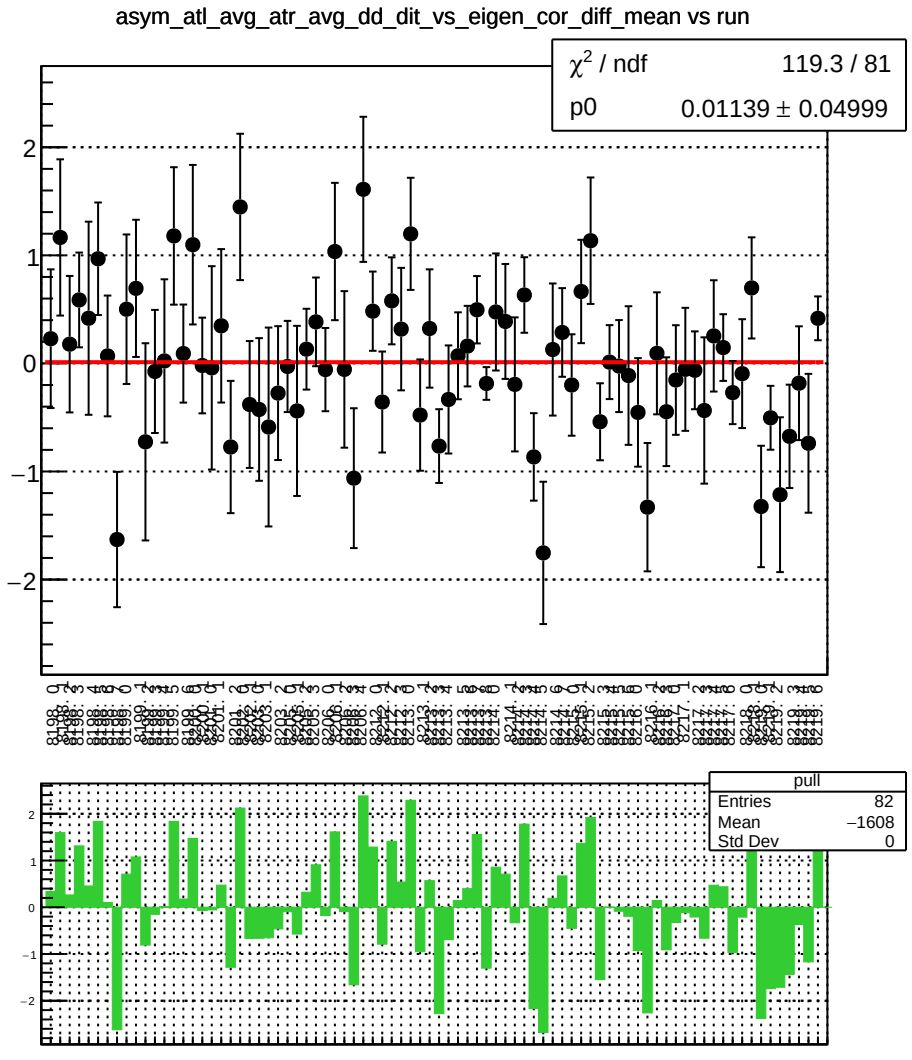

pull1D
Entries 82
Mean −0.02987
Std Dev 0.9284

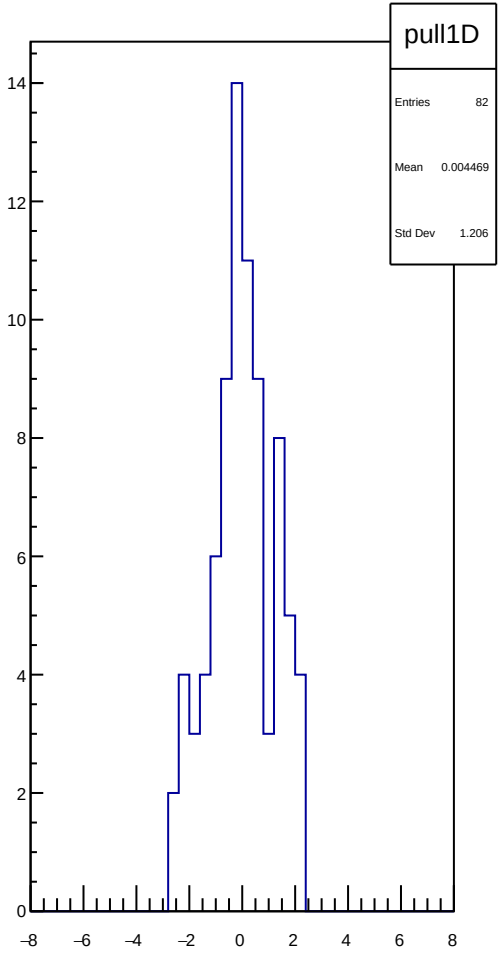

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.226e+05 / 81
p0 1.516e−10 ± 1.696e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

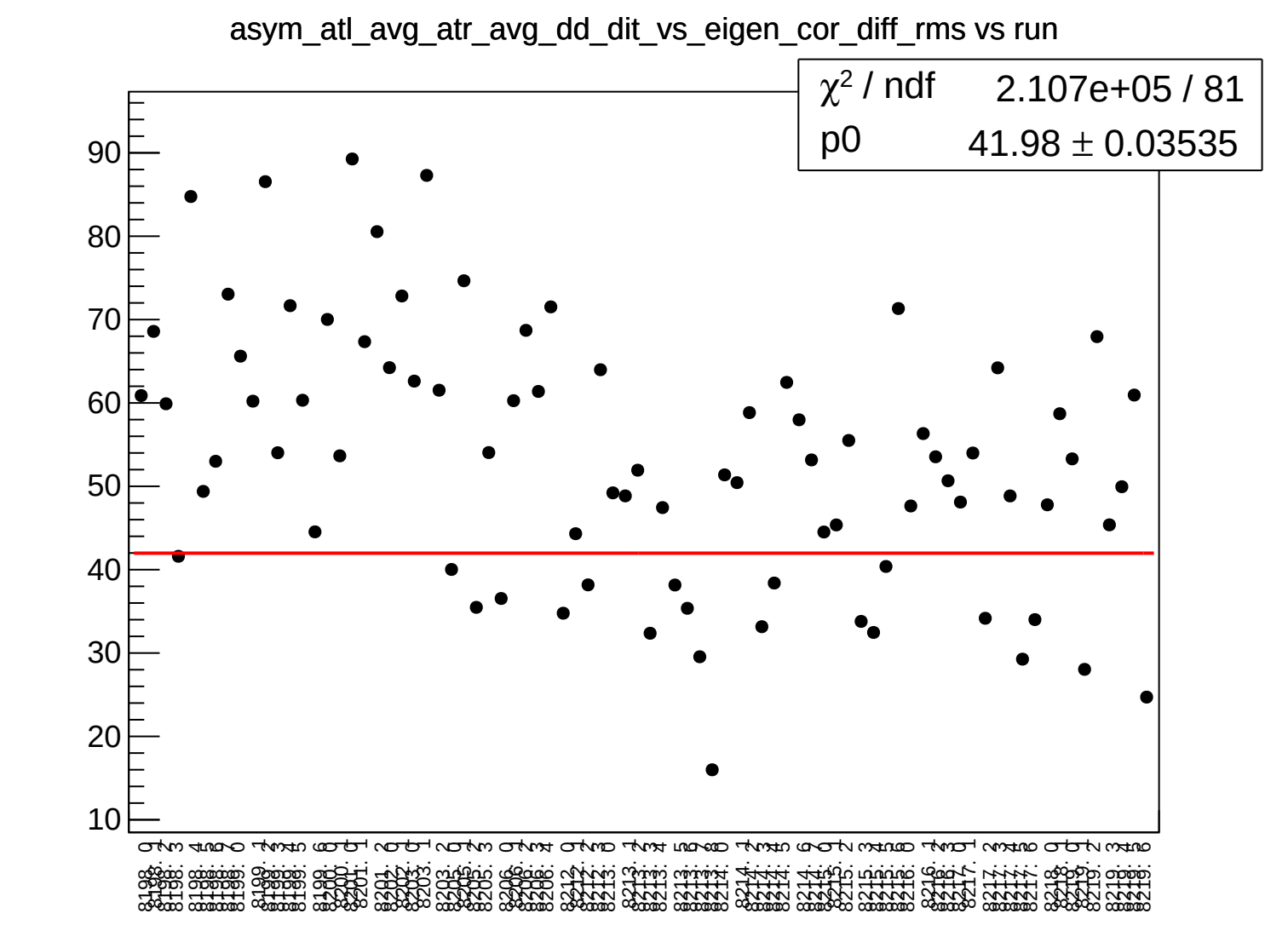

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 119.3 / 81
p0 0.01139 ± 0.04999
pull
Entries 82
Mean −1608
Std Dev 0

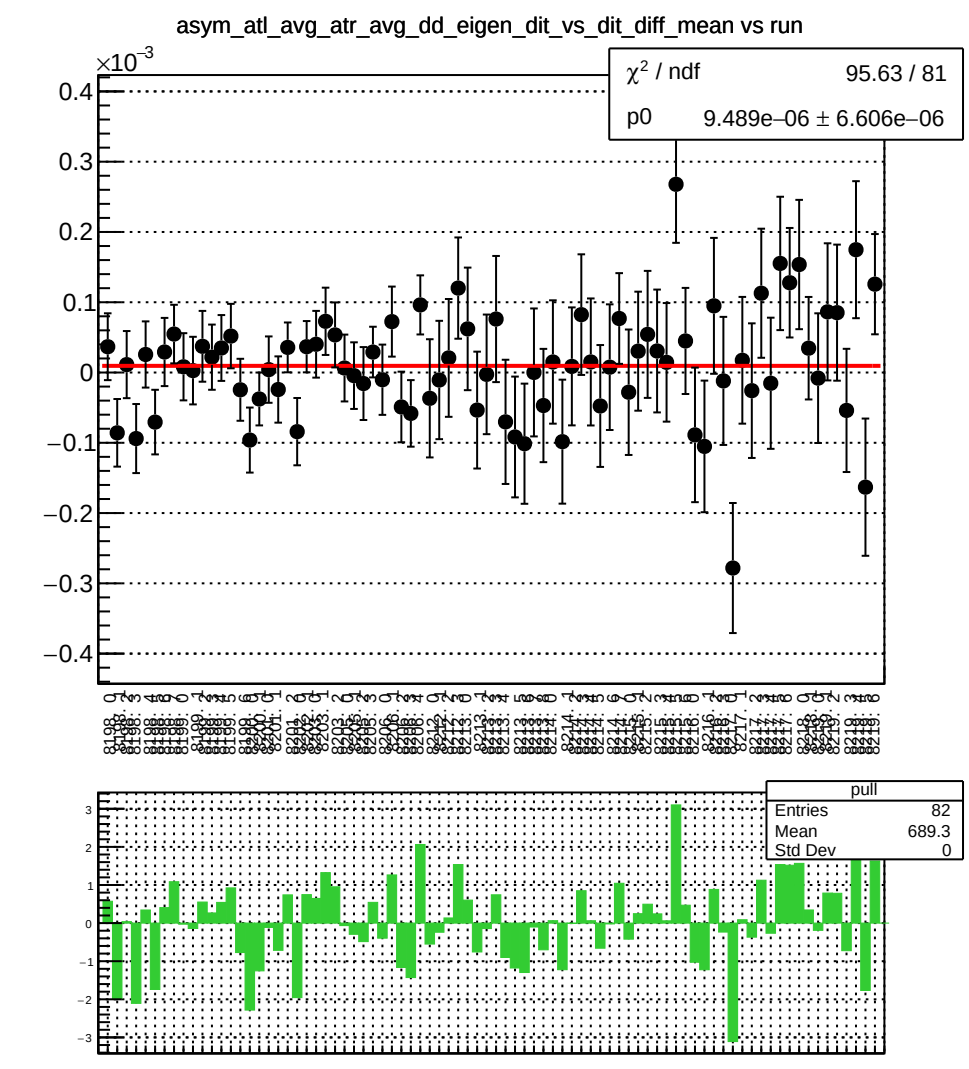

pull1D
Entries 82
Mean 0.004469
Std Dev 1.206

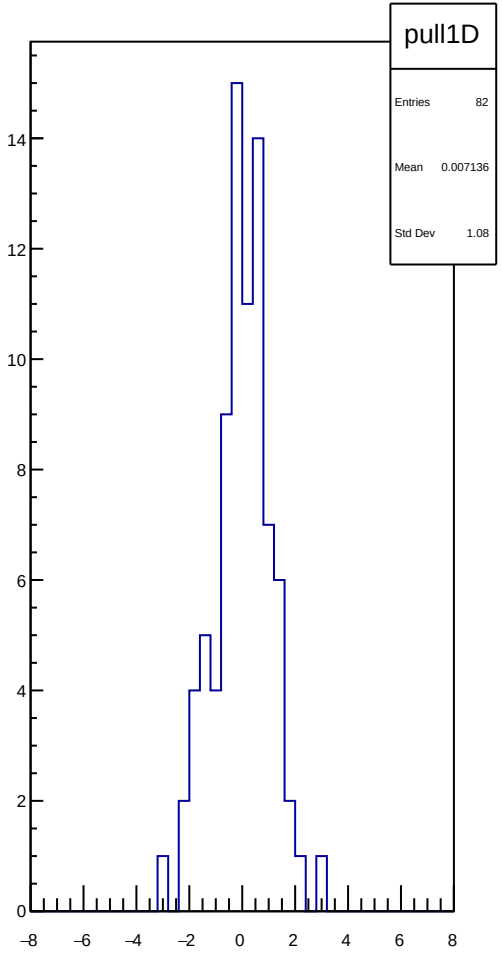

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.107e+05 / 81
p0 41.98 ± 0.03535
90
80
70
60
50
40
30
20
10

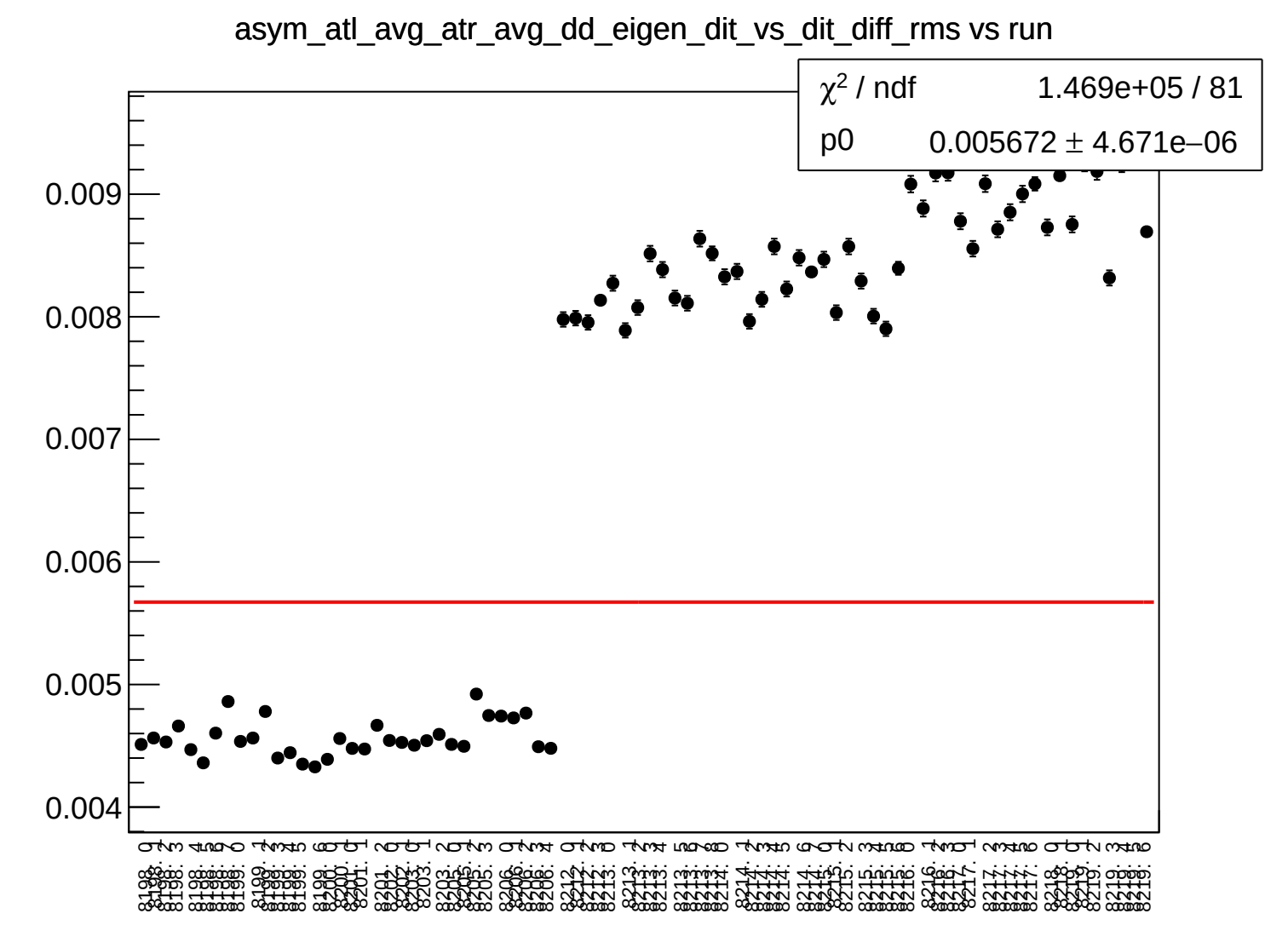

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.3 / 81
p0 0.01139 ± 0.04999
pull
Entries 82
Mean −1608
Std Dev 0

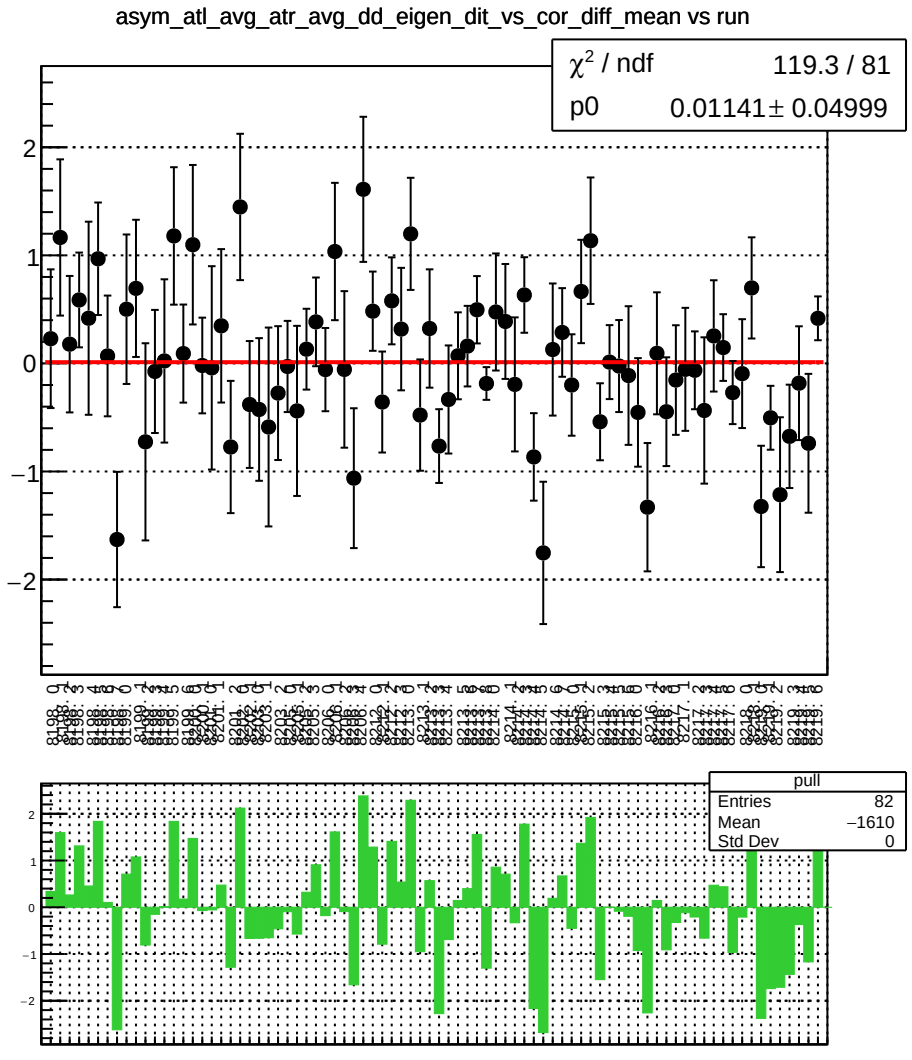

pull1D
Entries 82
Mean 0.004469
Std Dev 1.206

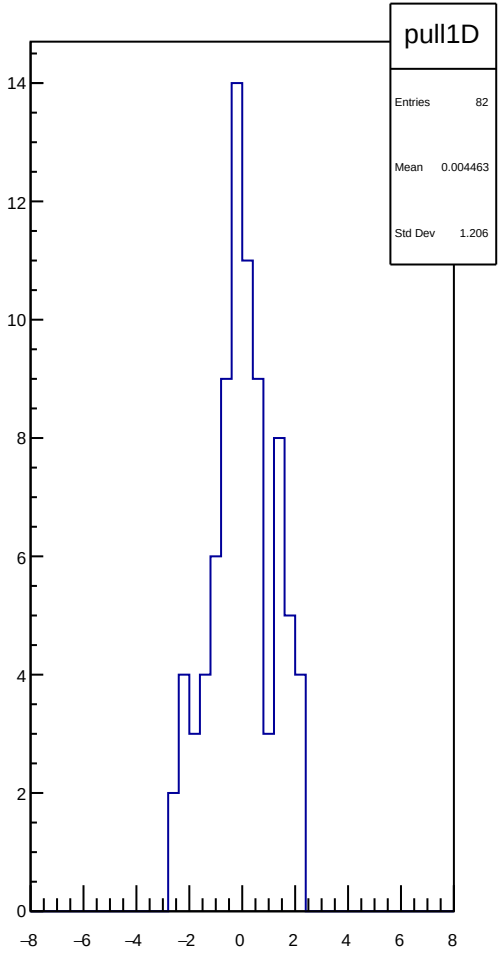

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.107e+05 / 81
p0 41.98 ± 0.03535
90
80
70
60
50
40
30
20
10

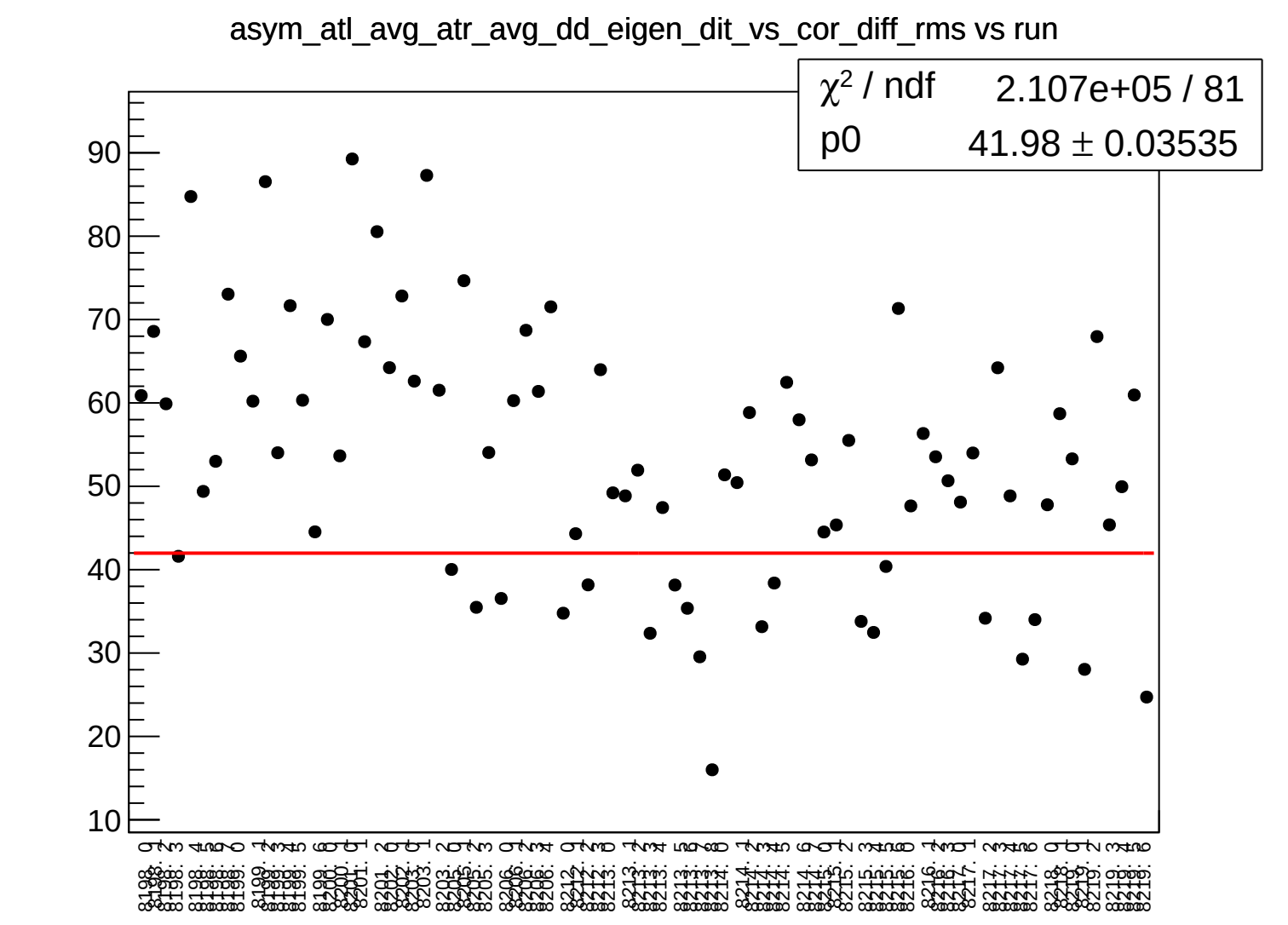

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.63 / 81
p0 9.489e−06 ± 6.606e−06
pull
Entries 82
Mean 689.3
Std Dev 0

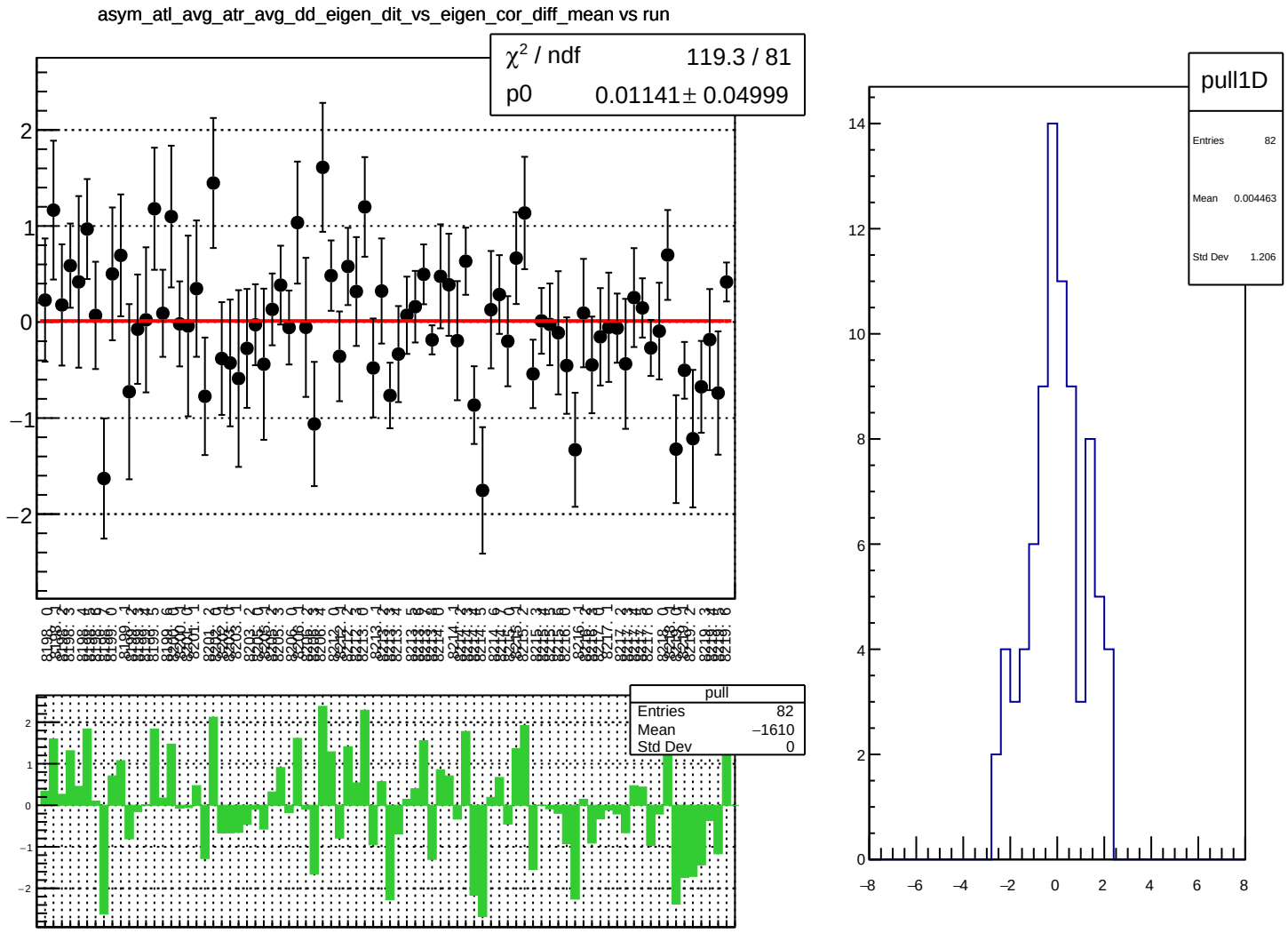

pull1D
Entries 82
Mean 0.007136
Std Dev 1.08

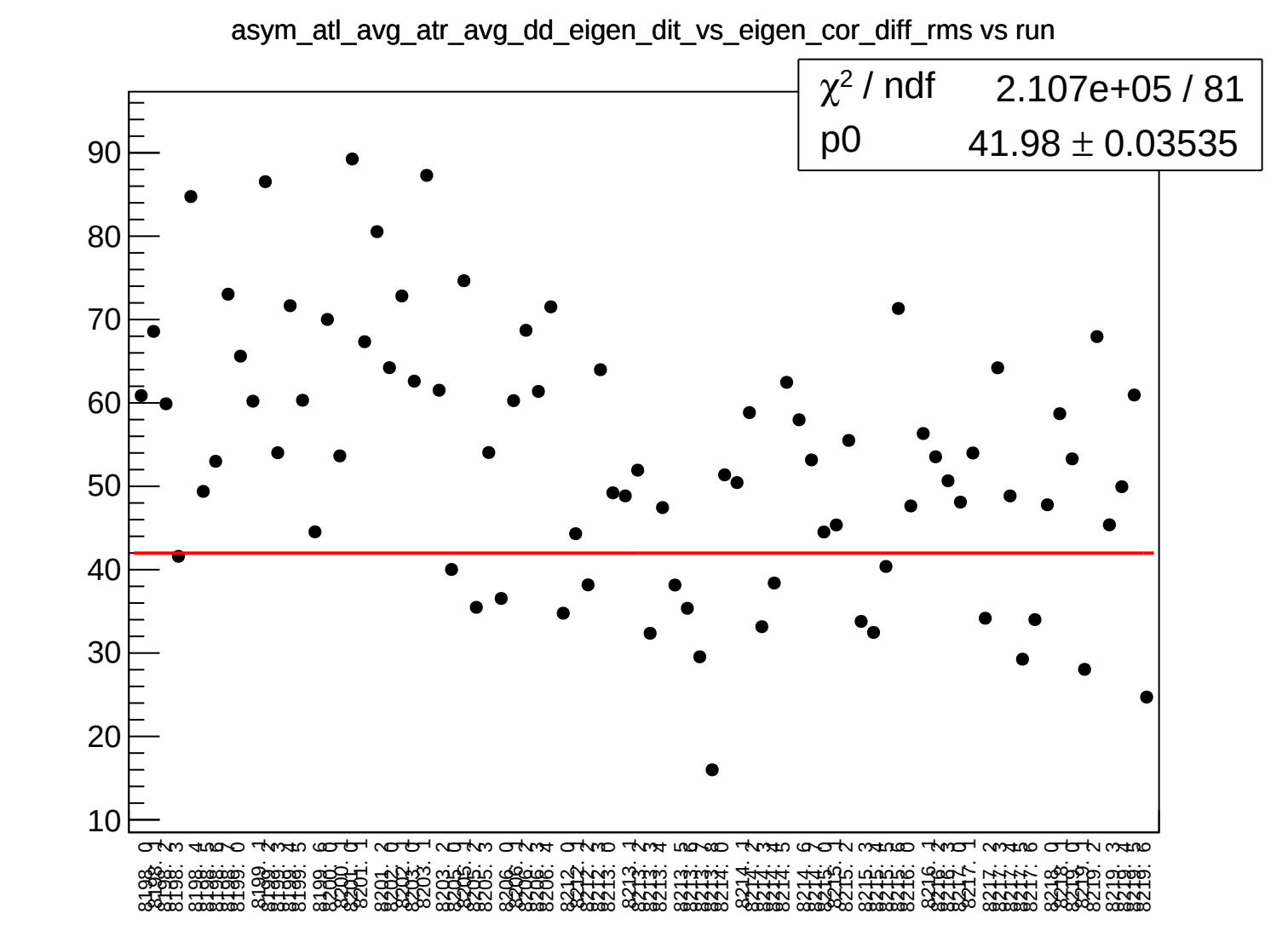

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.469e+05 / 81
p0 0.005672 ± 4.671e−06
0.009
0.008
0.007
0.006
0.005
0.004

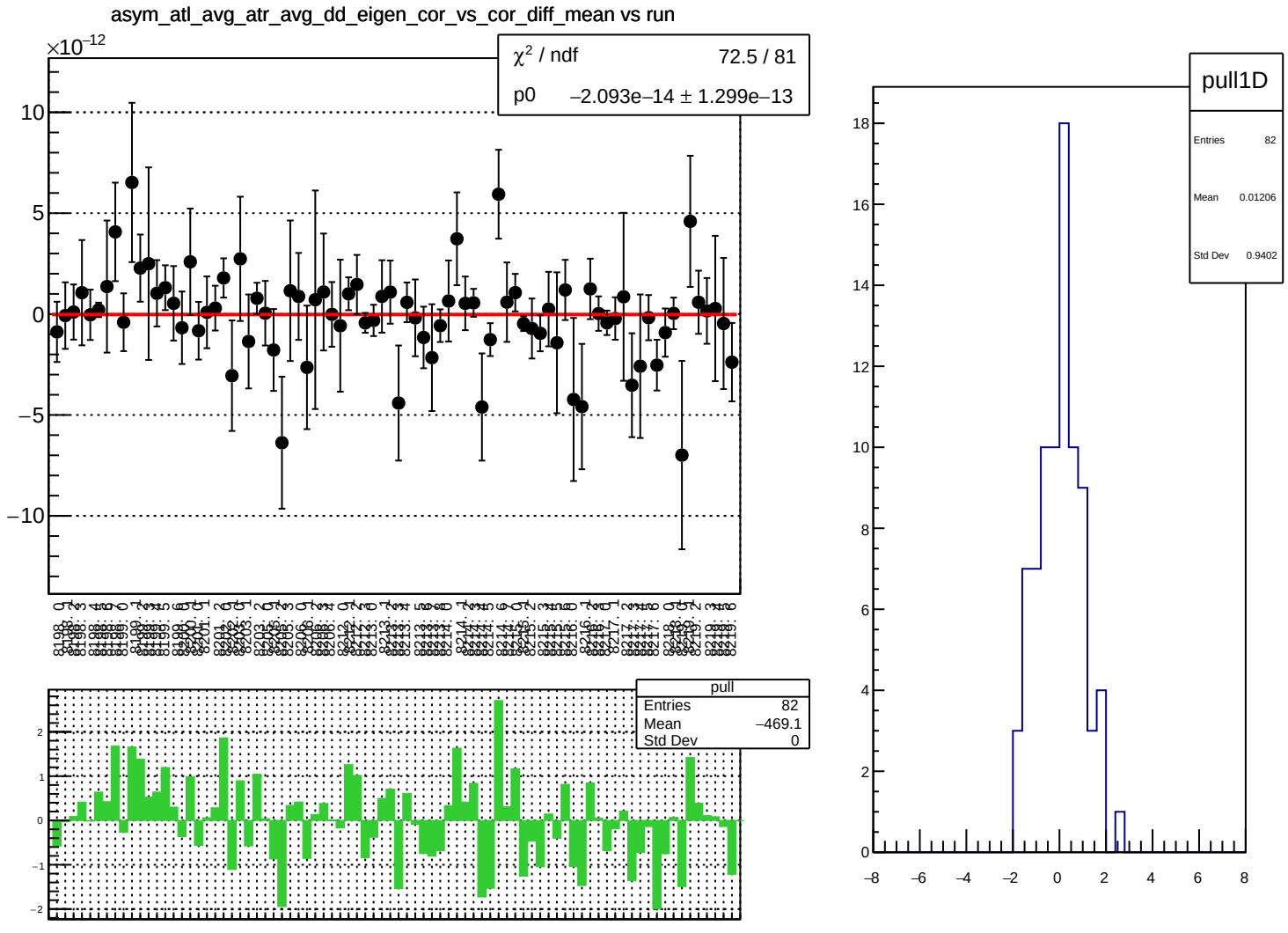

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.3 / 81
p0 0.01141 ± 0.04999
pull
Entries 82
Mean −1610
Std Dev 0

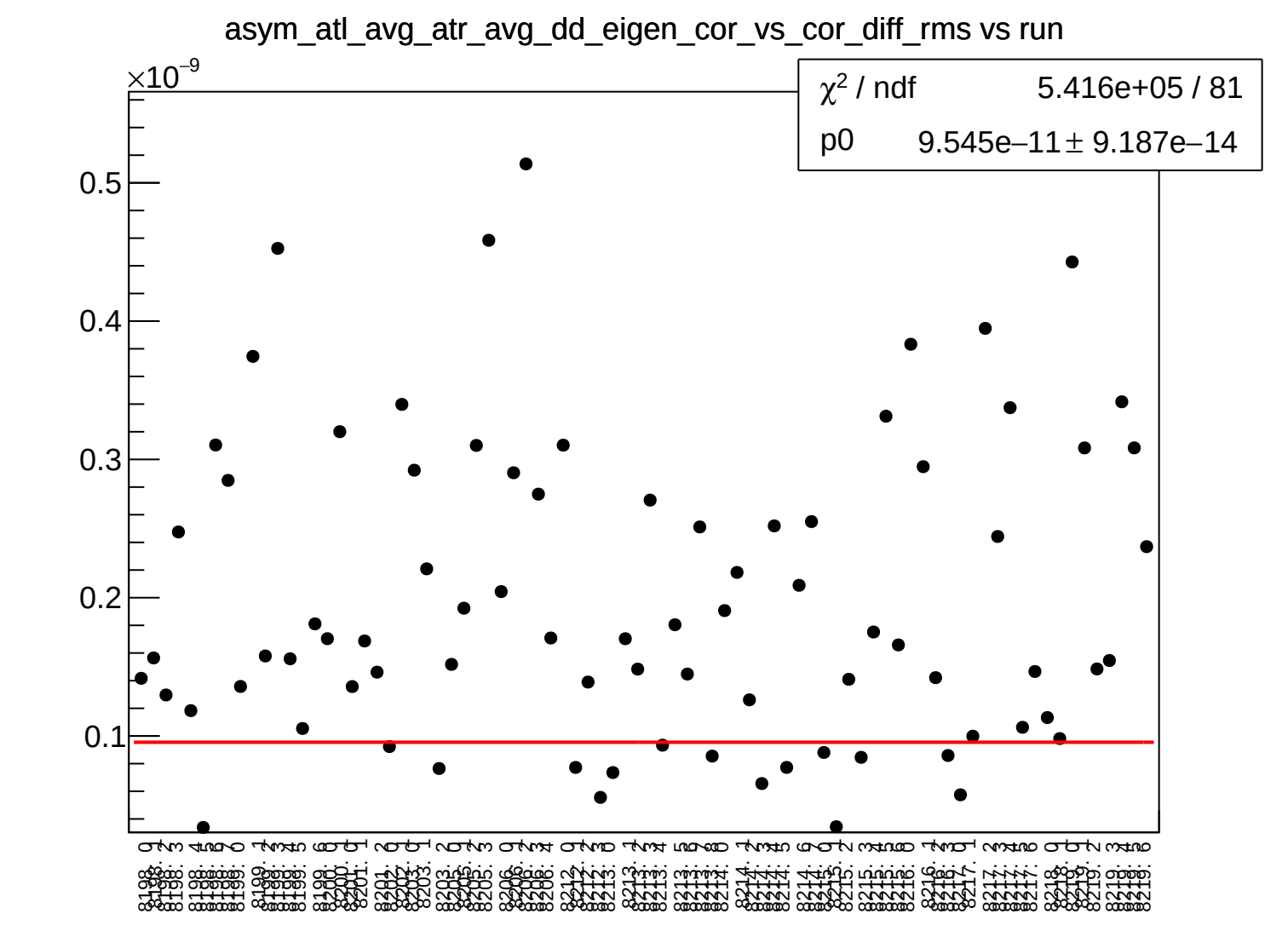

pull1D
Entries 82
Mean 0.004463
Std Dev 1.206

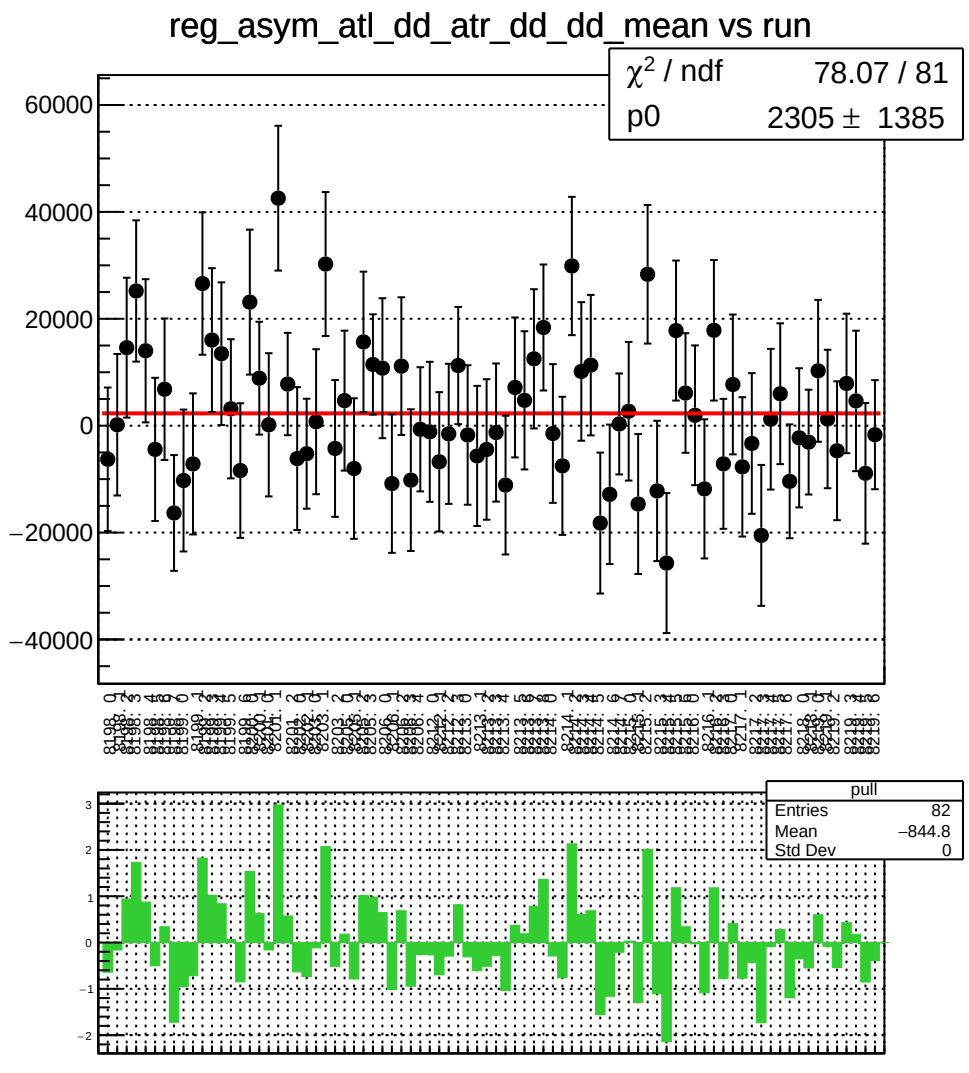

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.107e+05 / 81
p0 41.98 ± 0.03535
90
80
70
60
50
40
30
20
10

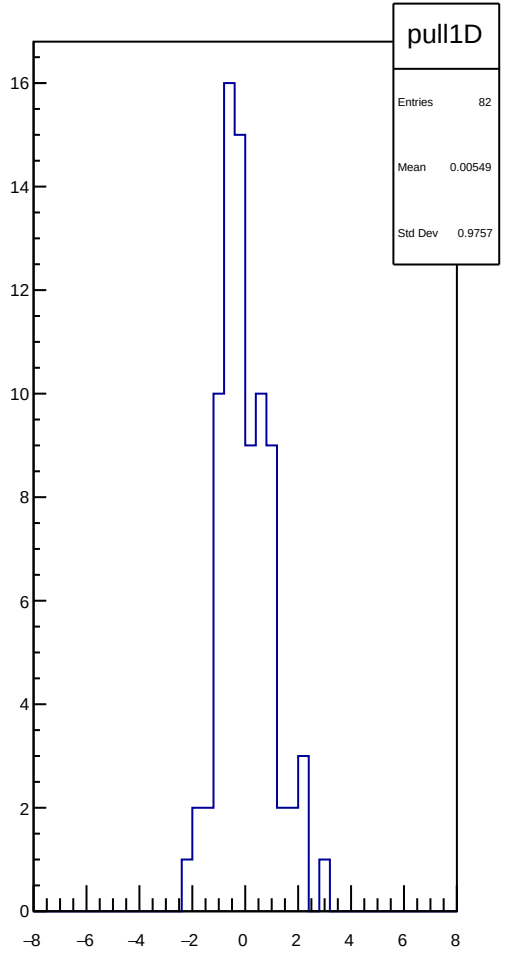

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.3 / 81
p0 0.01141 ± 0.04999
pull
Entries 82
Mean −1610
Std Dev 0
pull1D
Entries 82
Mean 0.004463
Std Dev 1.206

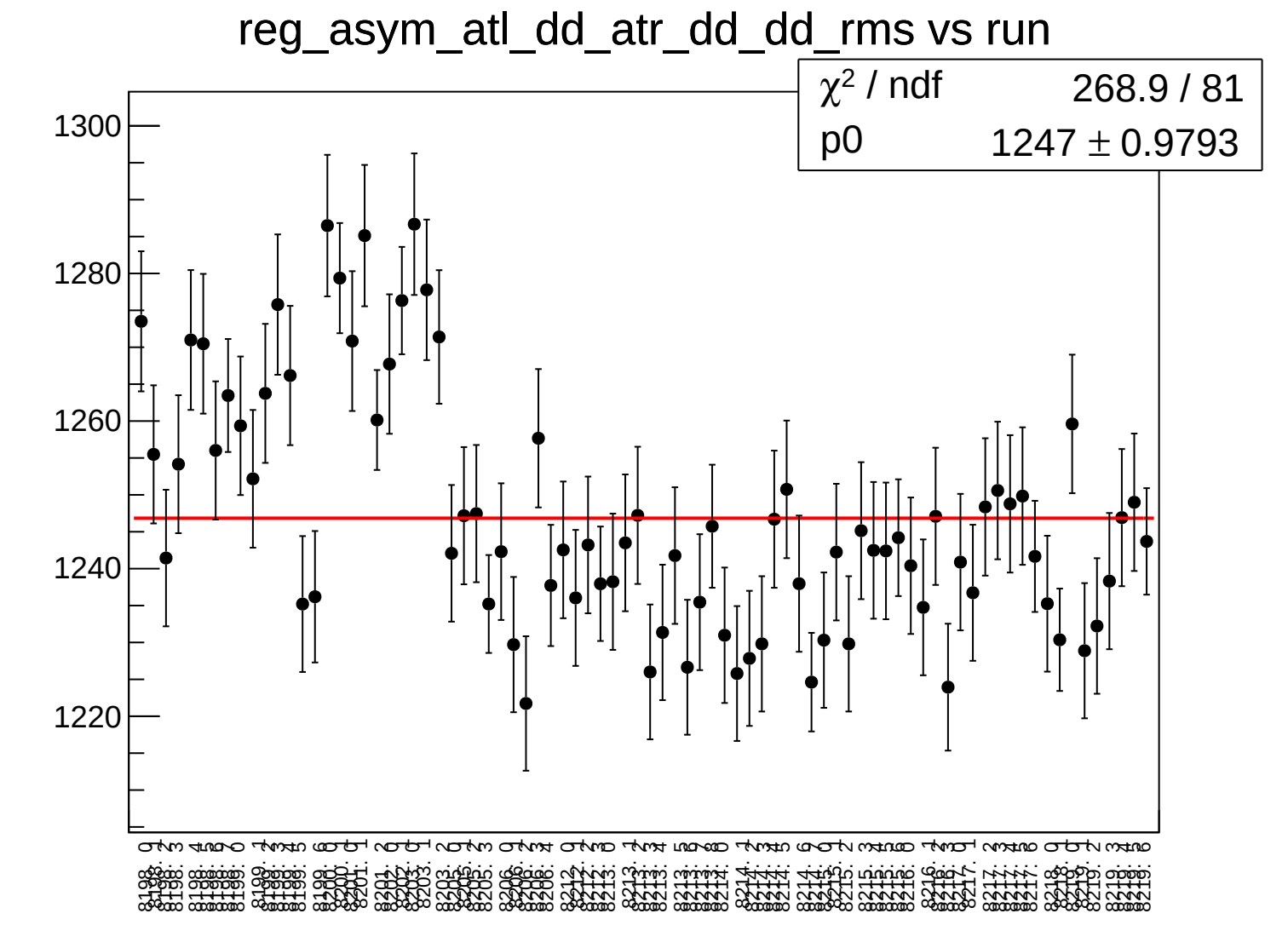

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.107e+05 / 81
p0 41.98 ± 0.03535
90
80
70
60
50
40
30
20
10

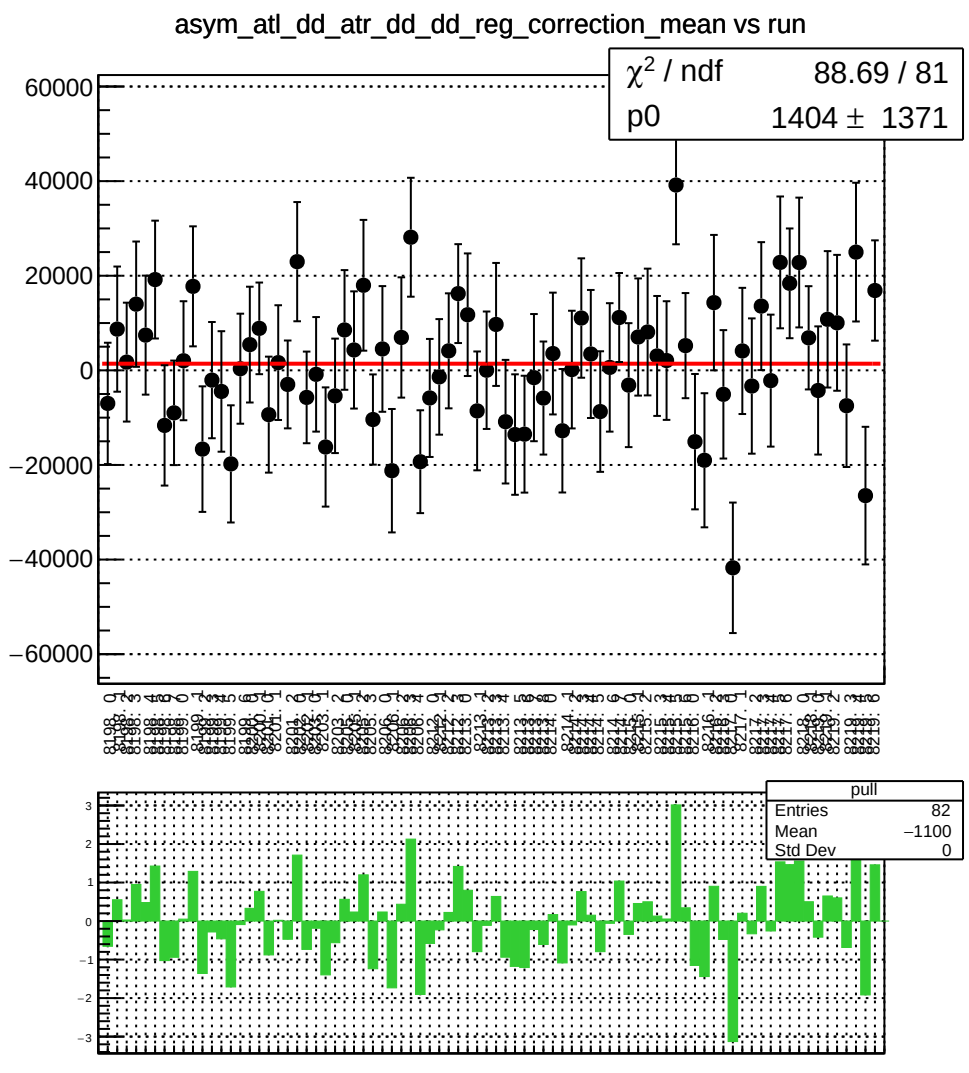

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 72.5 / 81
p0 −2.093e−14 ± 1.299e−13
pull
Entries 82
Mean −469.1
Std Dev 0
pull1D
Entries 82
Mean 0.01206
Std Dev 0.9402

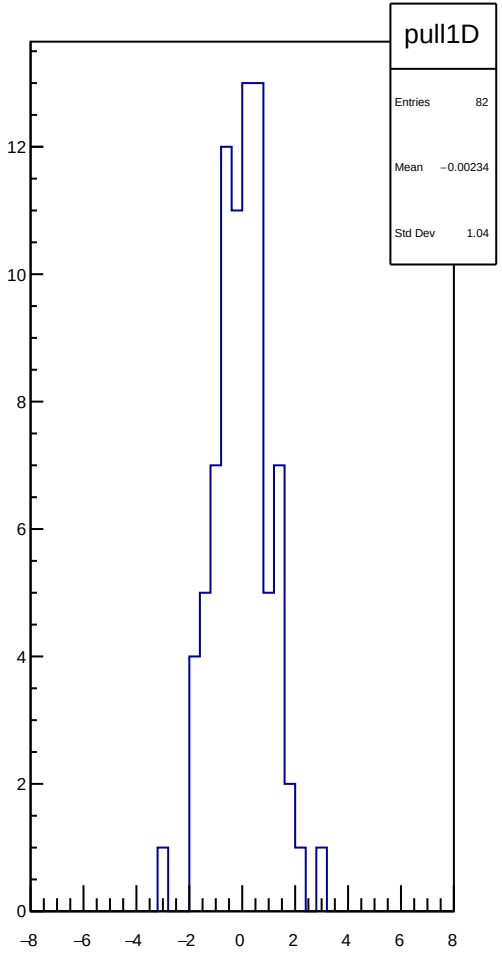

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.416e+05 / 81
p0 9.545e−11 ± 9.187e−14
0.5
0.4
0.3
0.2
0.1

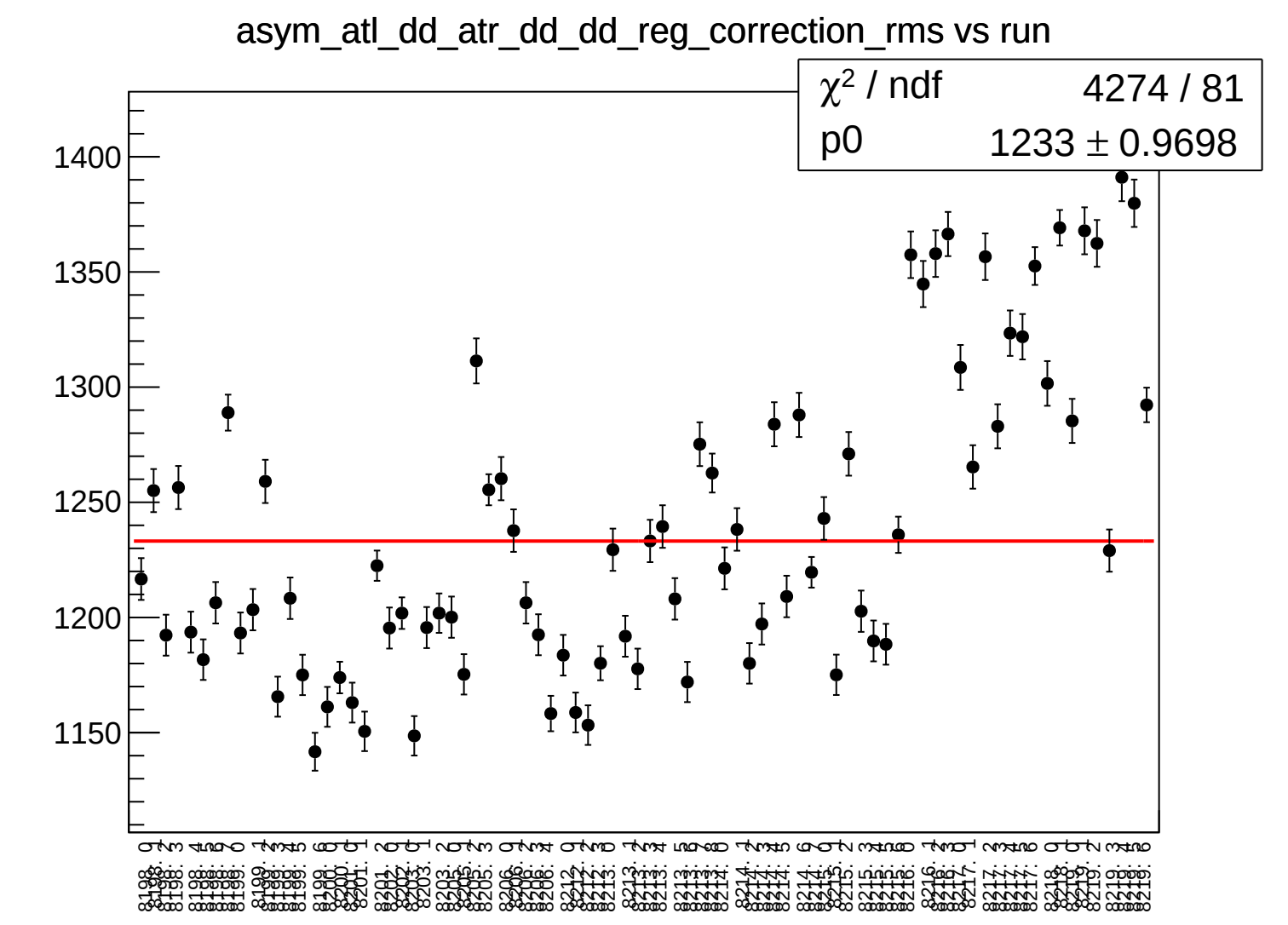

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.07 / 81
p0 2305 ± 1385
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −844.8
Std Dev 0
3
2
1
0
−1
−2

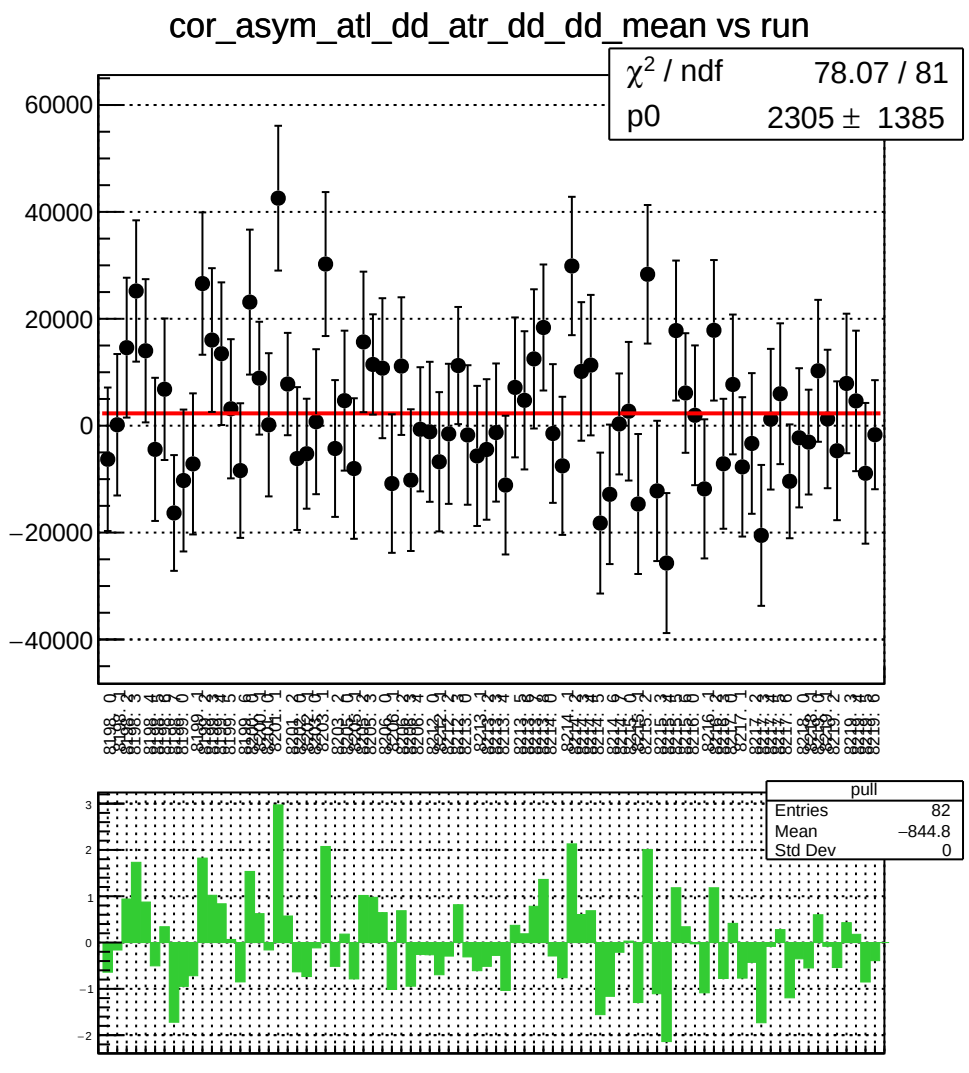

pull1D
Entries 82
Mean 0.00549
Std Dev 0.9757
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

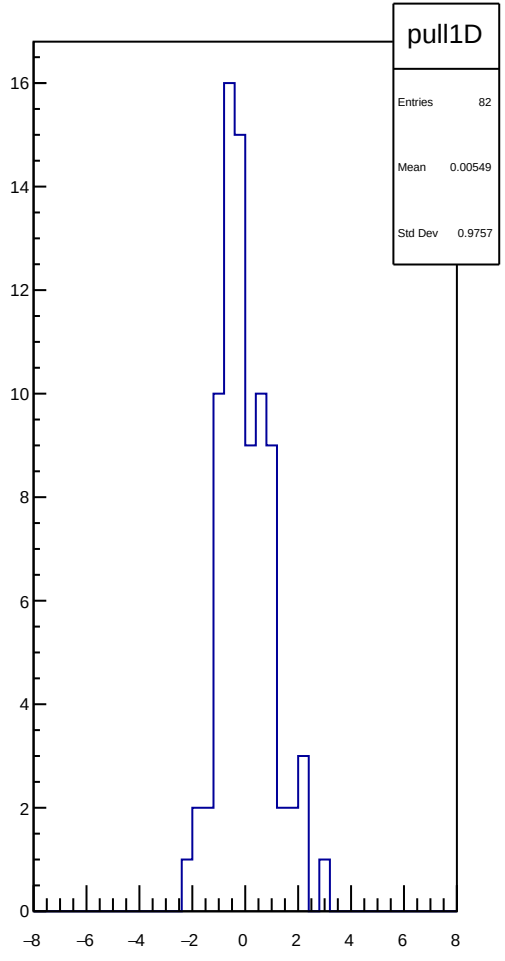

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 268.9 / 81
p0 1247 ± 0.9793
1300
1280
1260
1240
1220

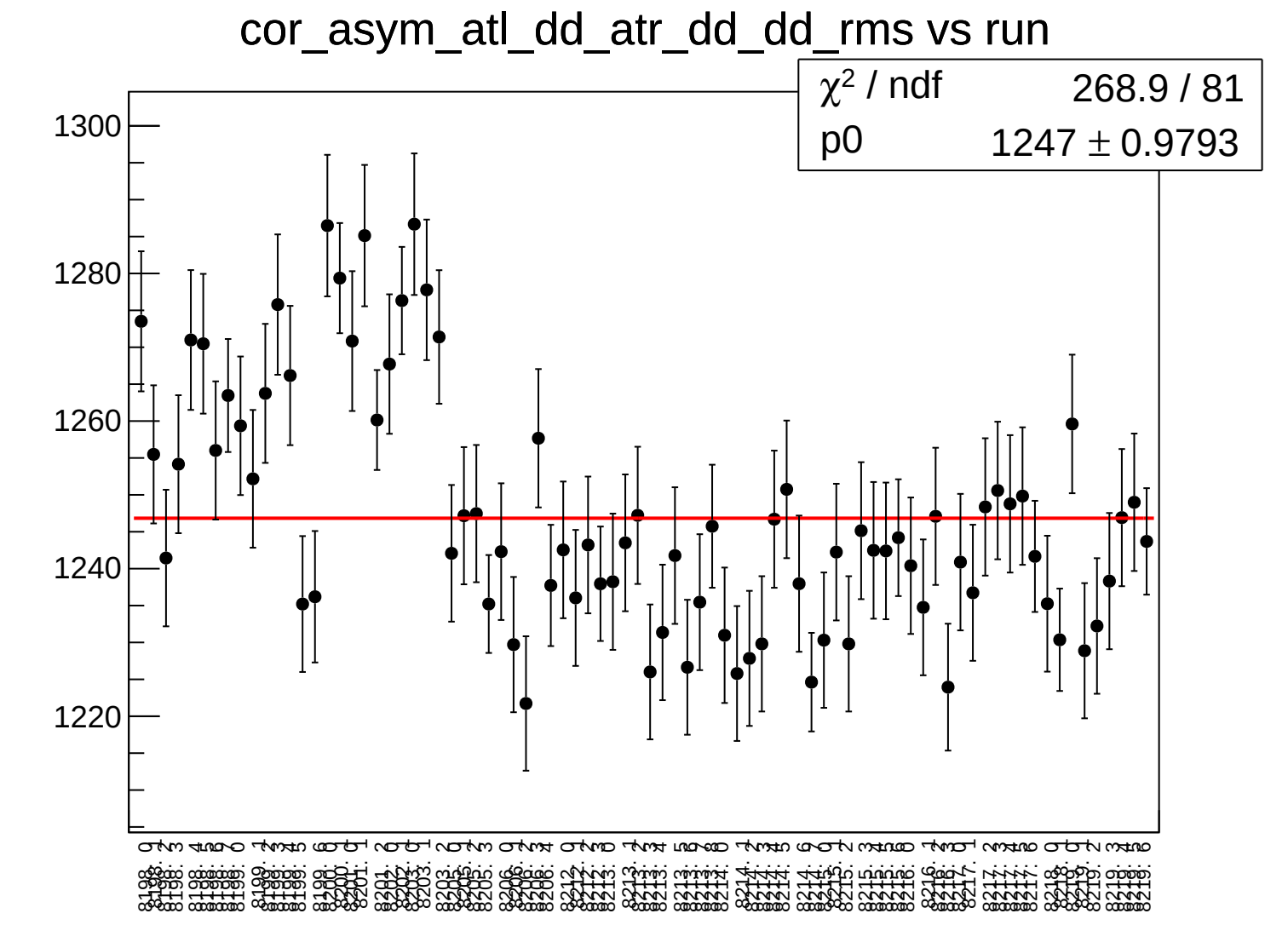

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 88.69 / 81
p0 1404 ± 1371
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −1100
Std Dev 0
3
2
1
0
−1
−2
−3

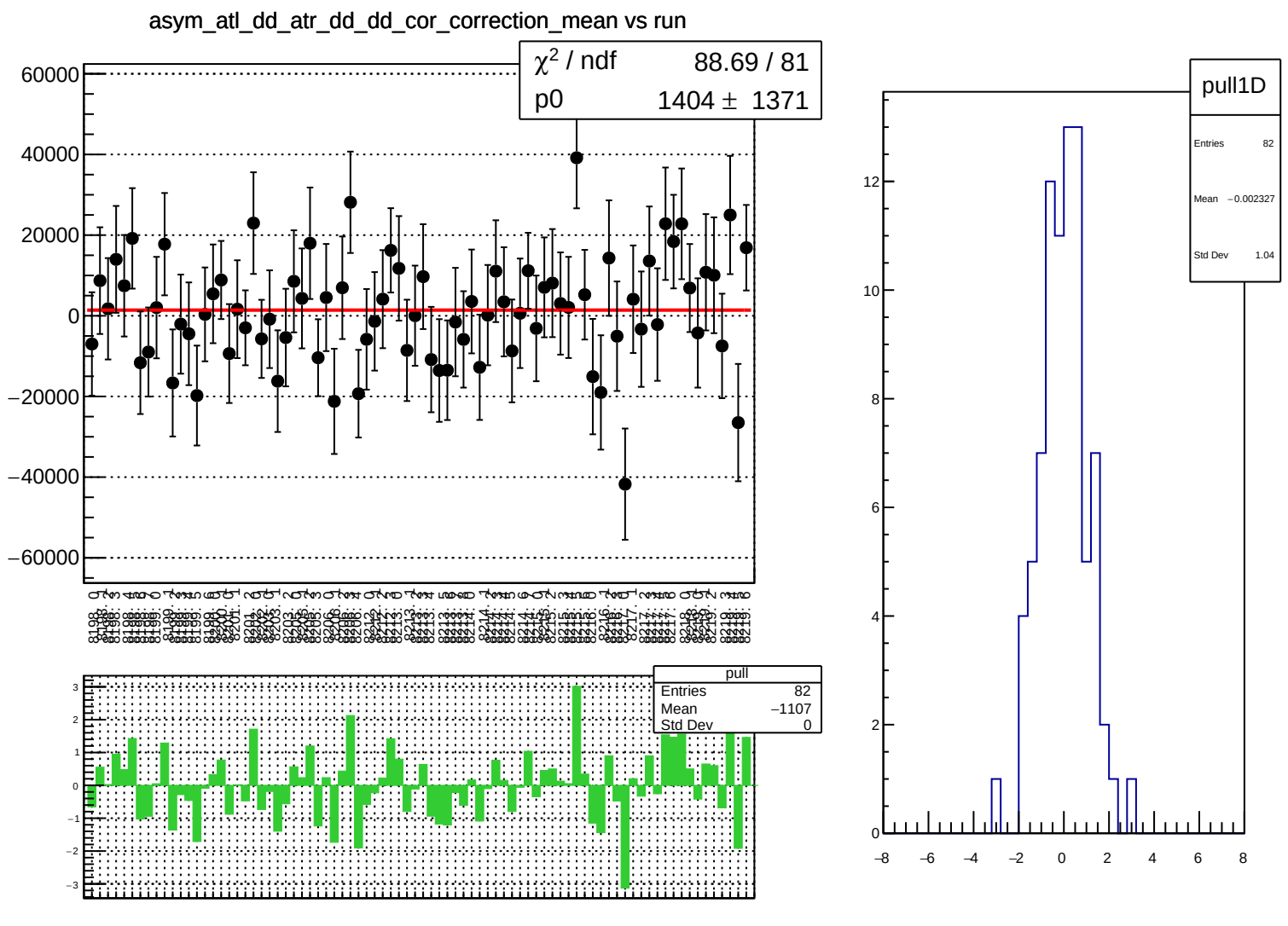

pull1D
Entries 82
Mean −0.00234
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

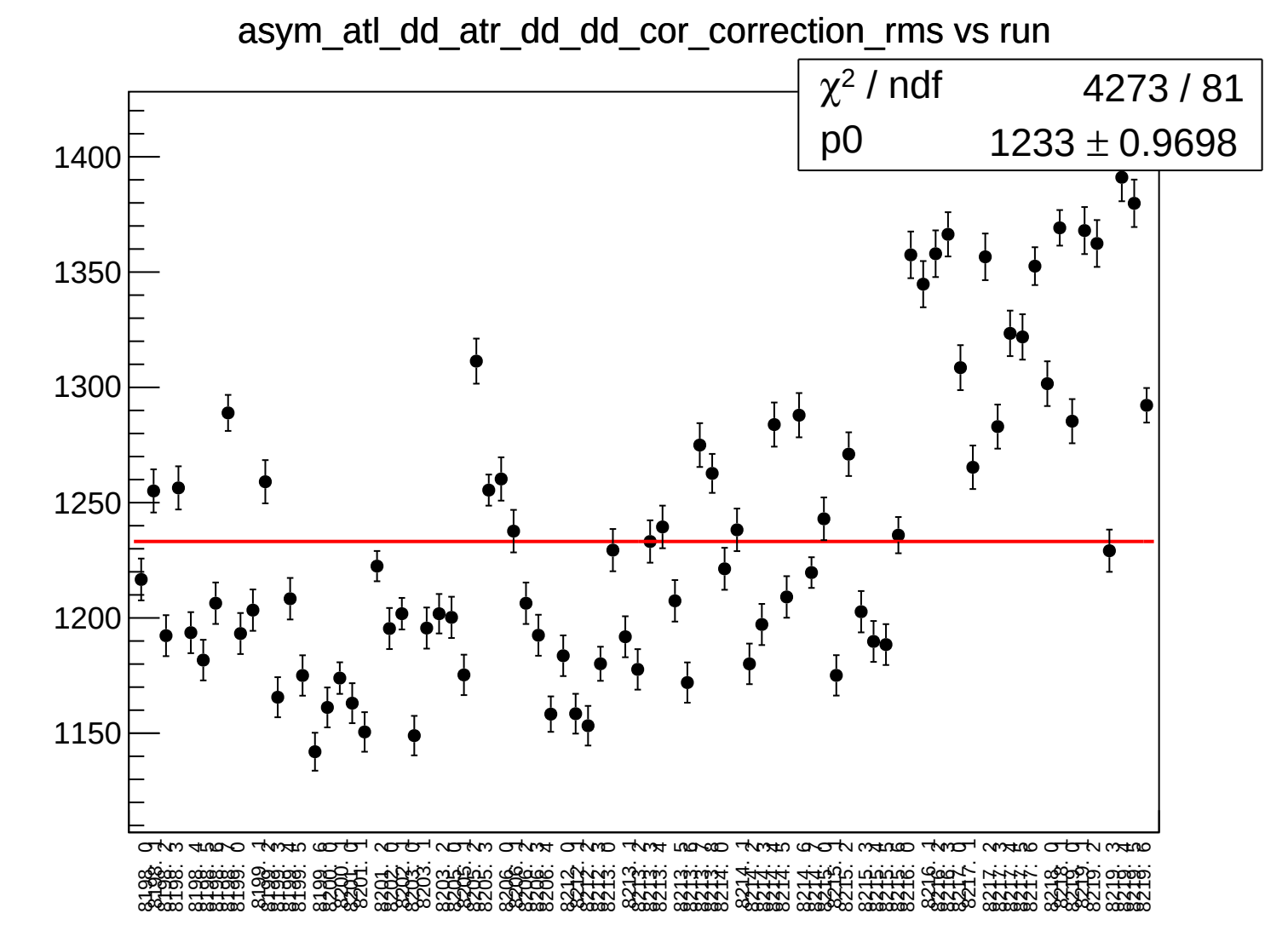

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 4274 / 81
p0 1233 ± 0.9698
1400
1350
1300
1250
1200
1150

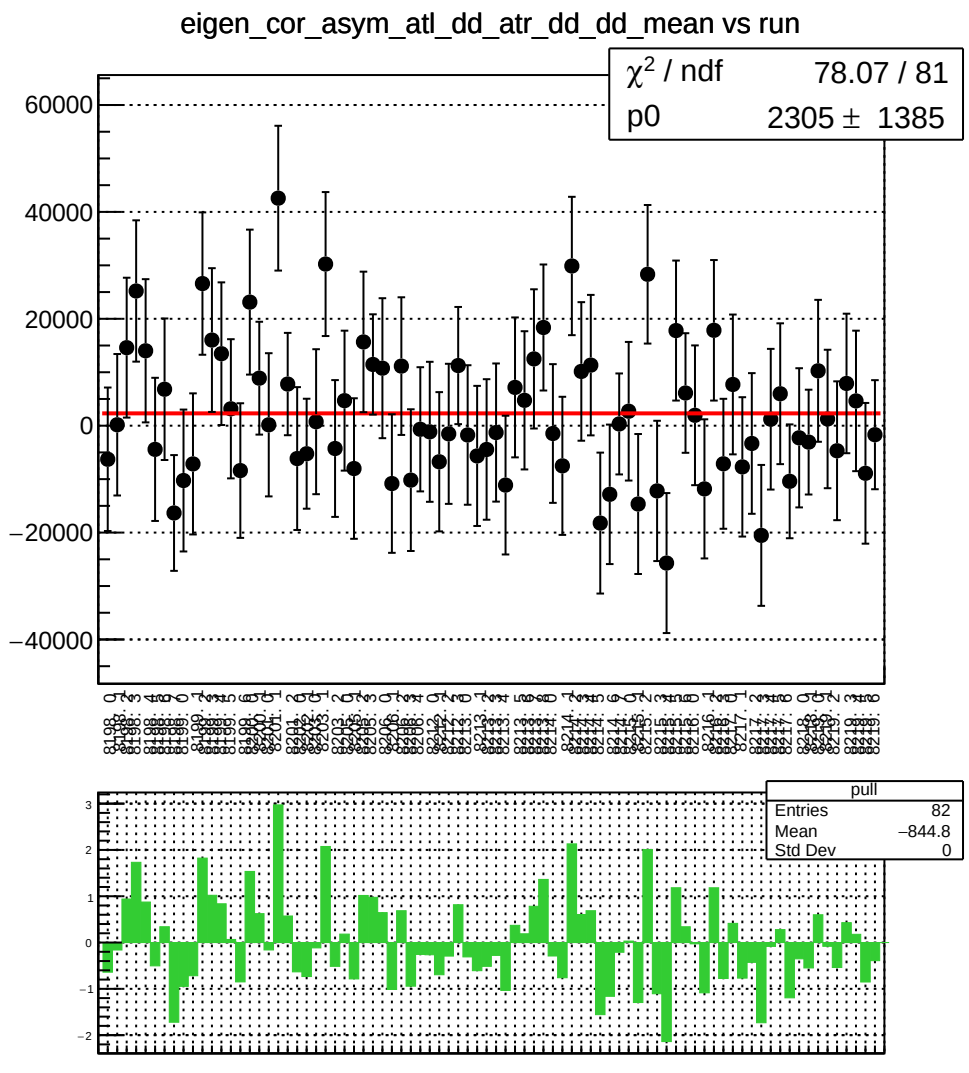

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.07 / 81
p0 2305 ± 1385
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −844.8
Std Dev 0
3
2
1
0
−1
−2

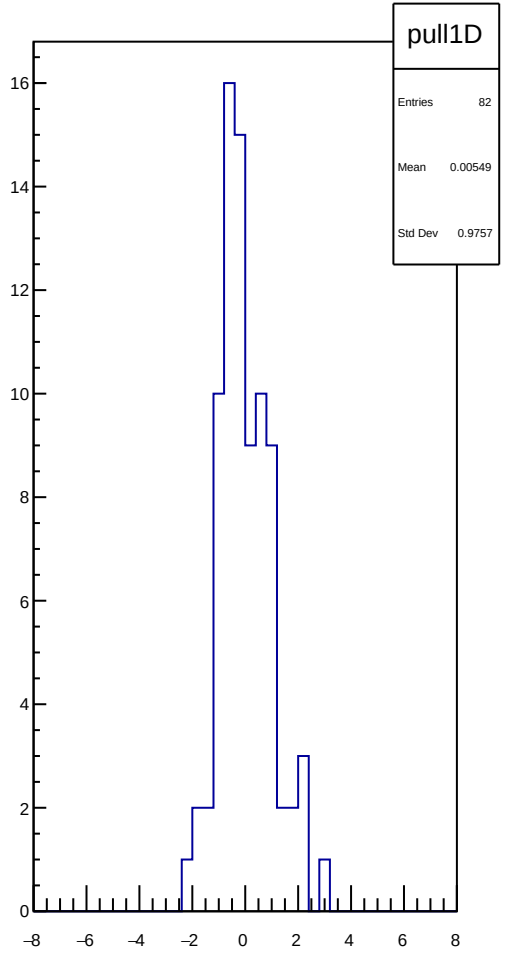

pull1D
Entries 82
Mean 0.00549
Std Dev 0.9757
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

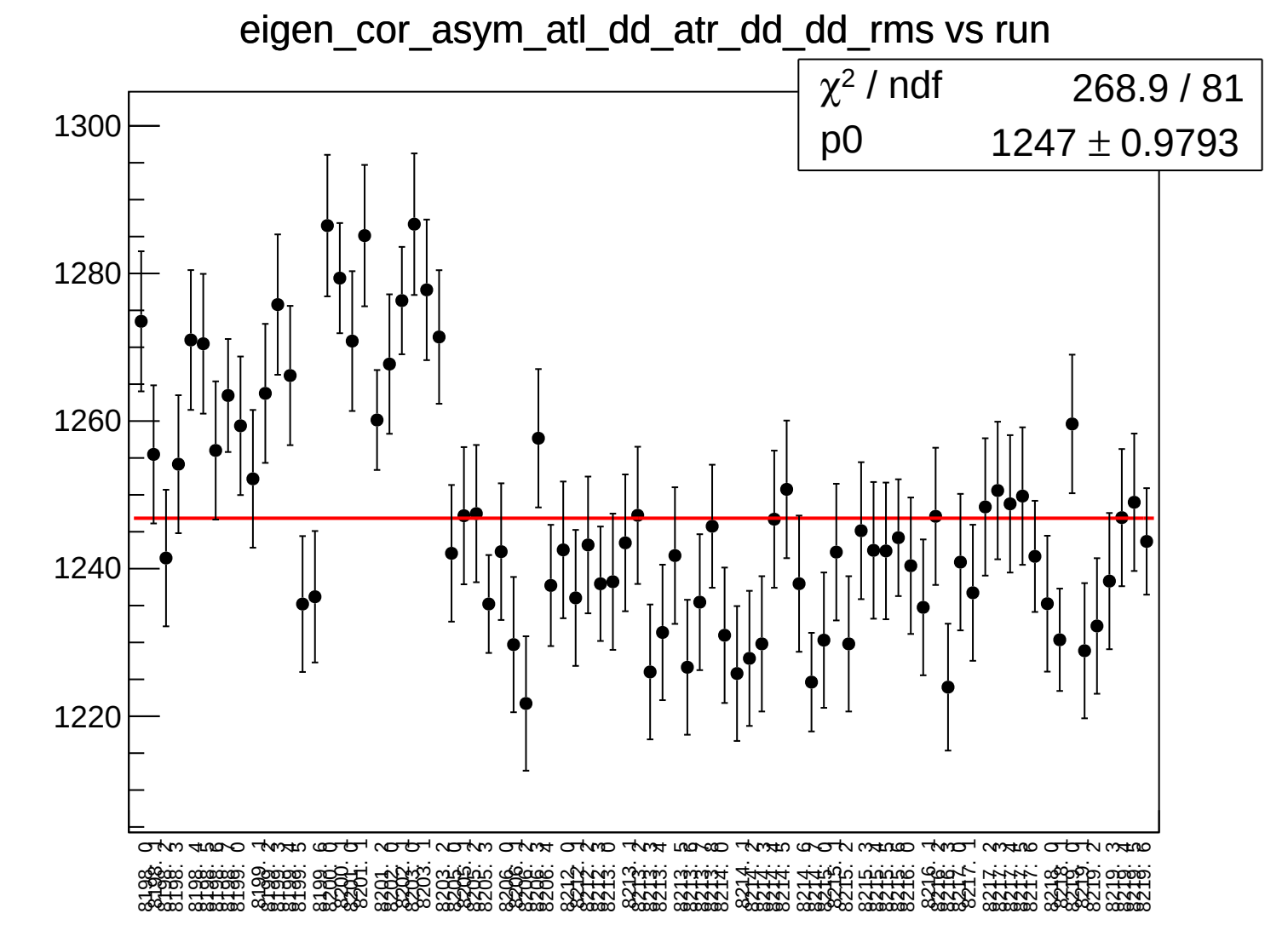

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 268.9 / 81
p0 1247 ± 0.9793
1300
1280
1260
1240
1220

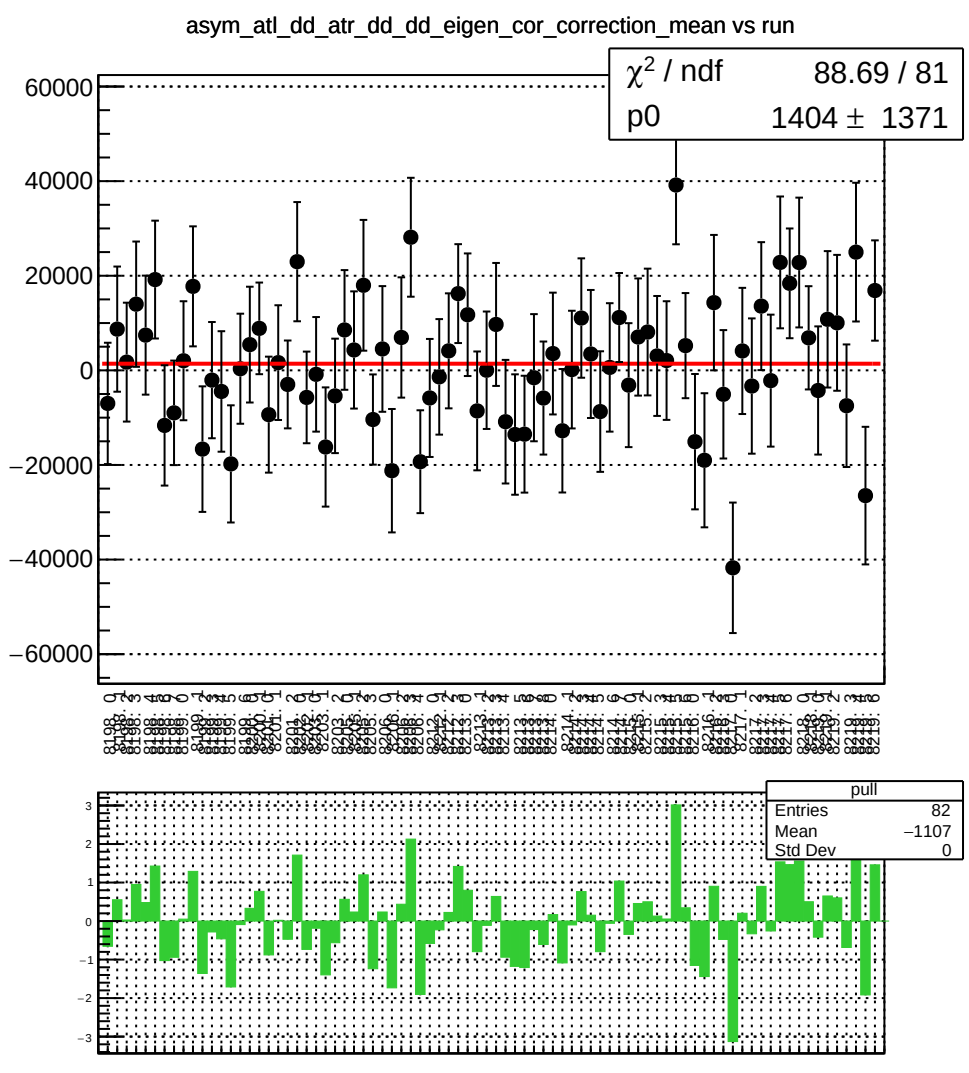

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 88.69 / 81
p0 1404 ± 1371
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −1107
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.002327
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

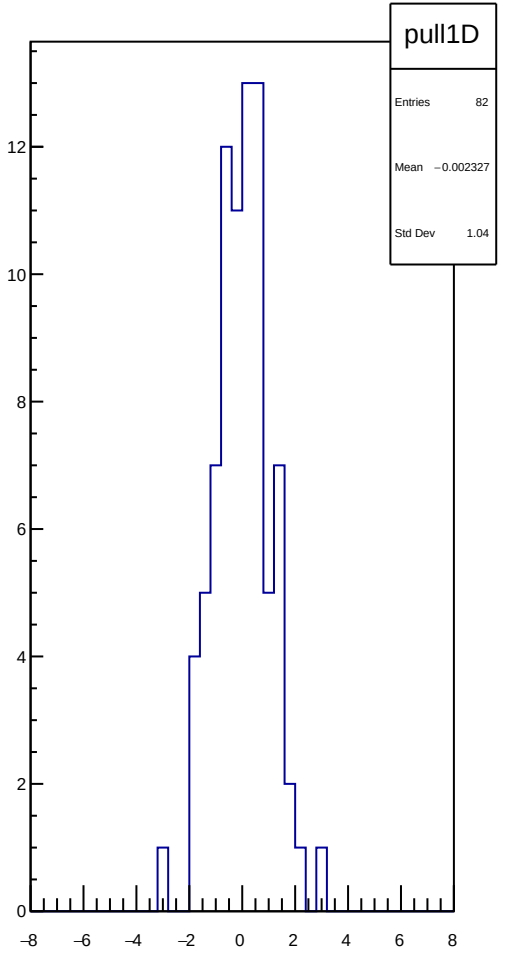

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 4273 / 81
p0 1233 ± 0.9698
1400
1350
1300
1250
1200
1150

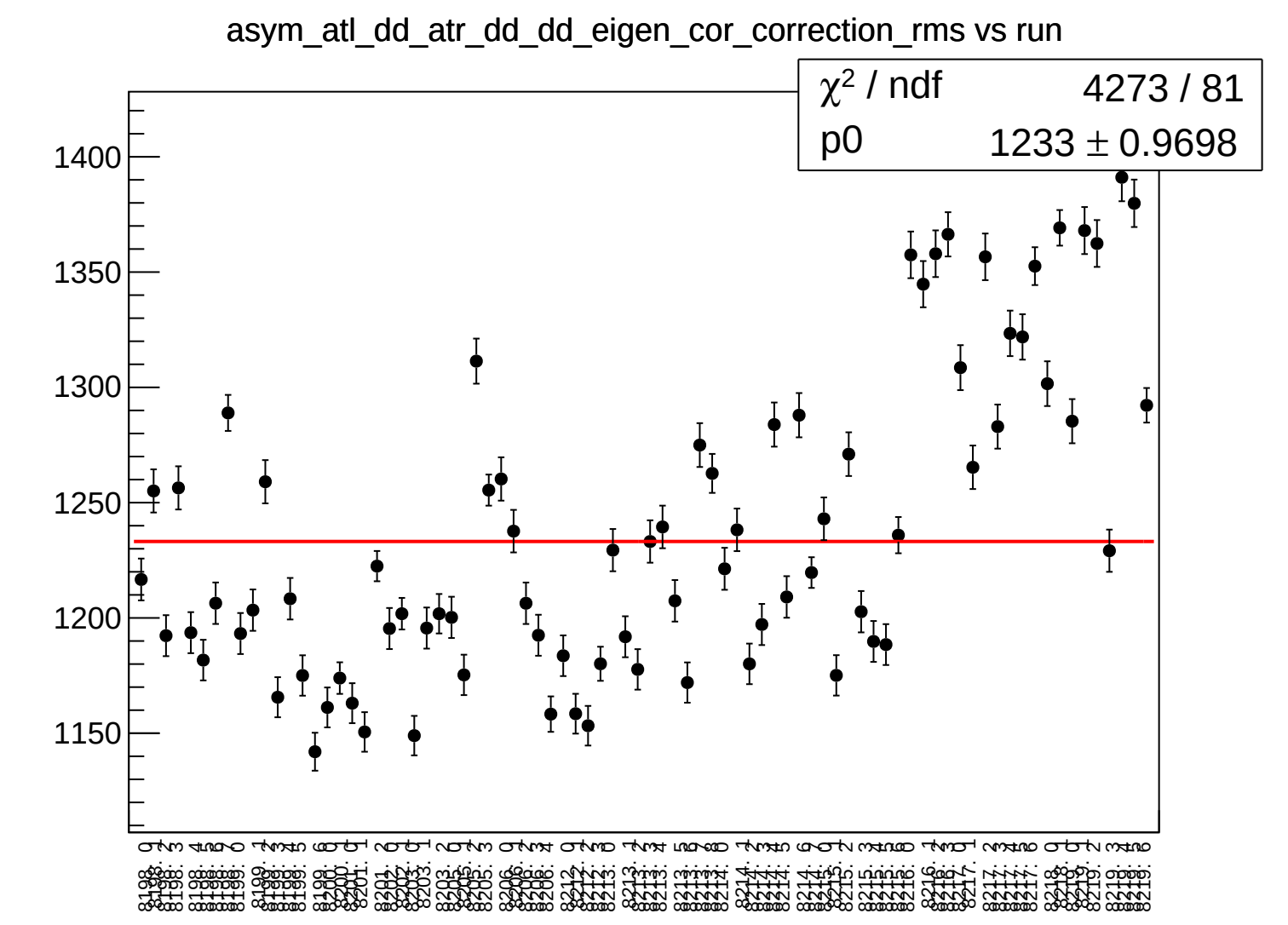

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.07 / 81
p0 2305 ± 1385
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −844.8
Std Dev 0
3
2
1
0
−1
−2

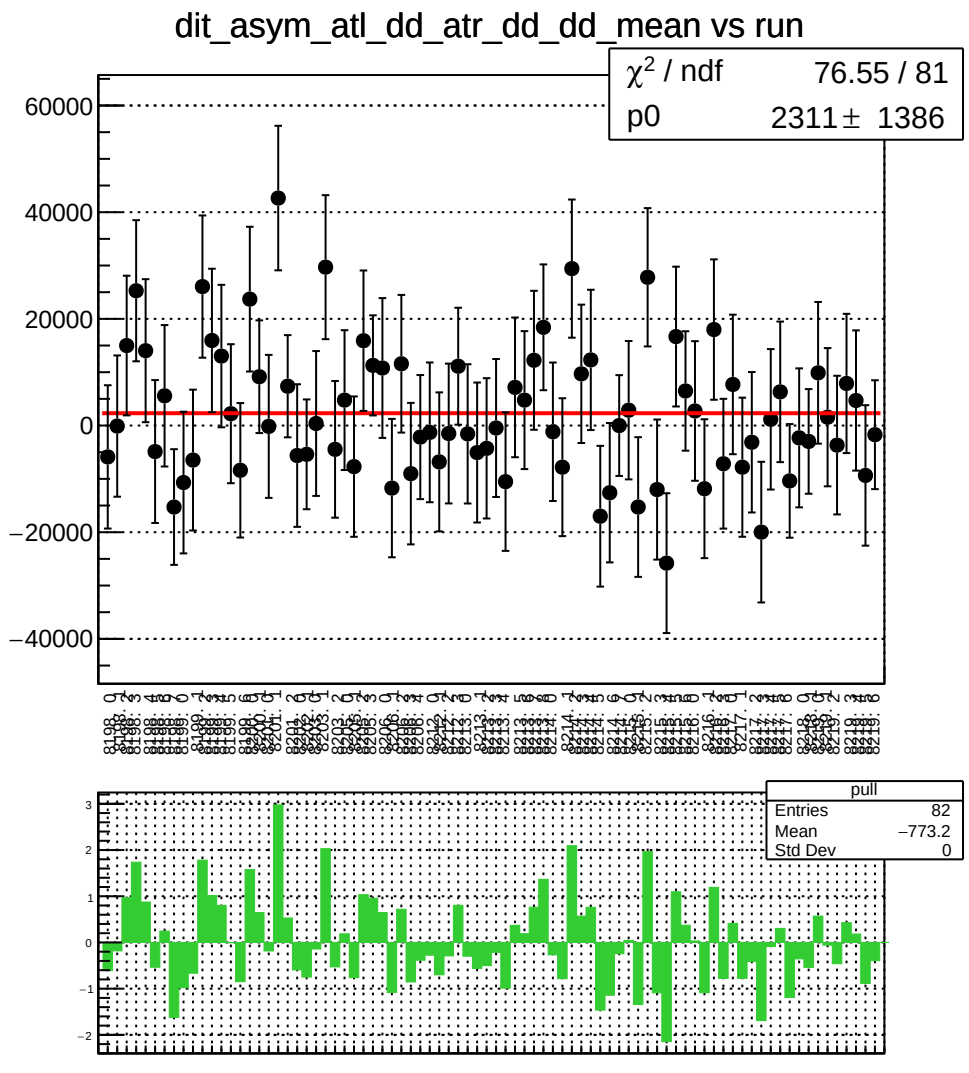

pull1D
Entries 82
Mean 0.00549
Std Dev 0.9757
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

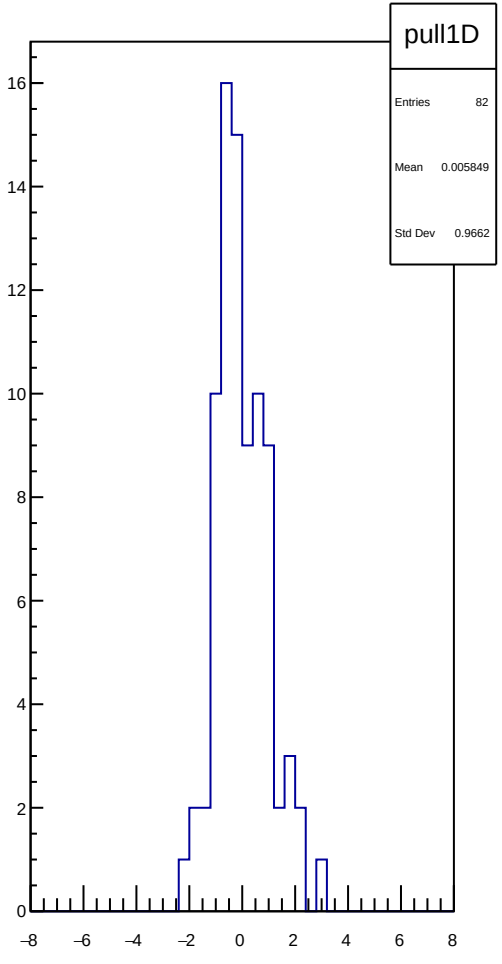

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 268.9 / 81
p0 1247 ± 0.9793
1300
1280
1260
1240
1220

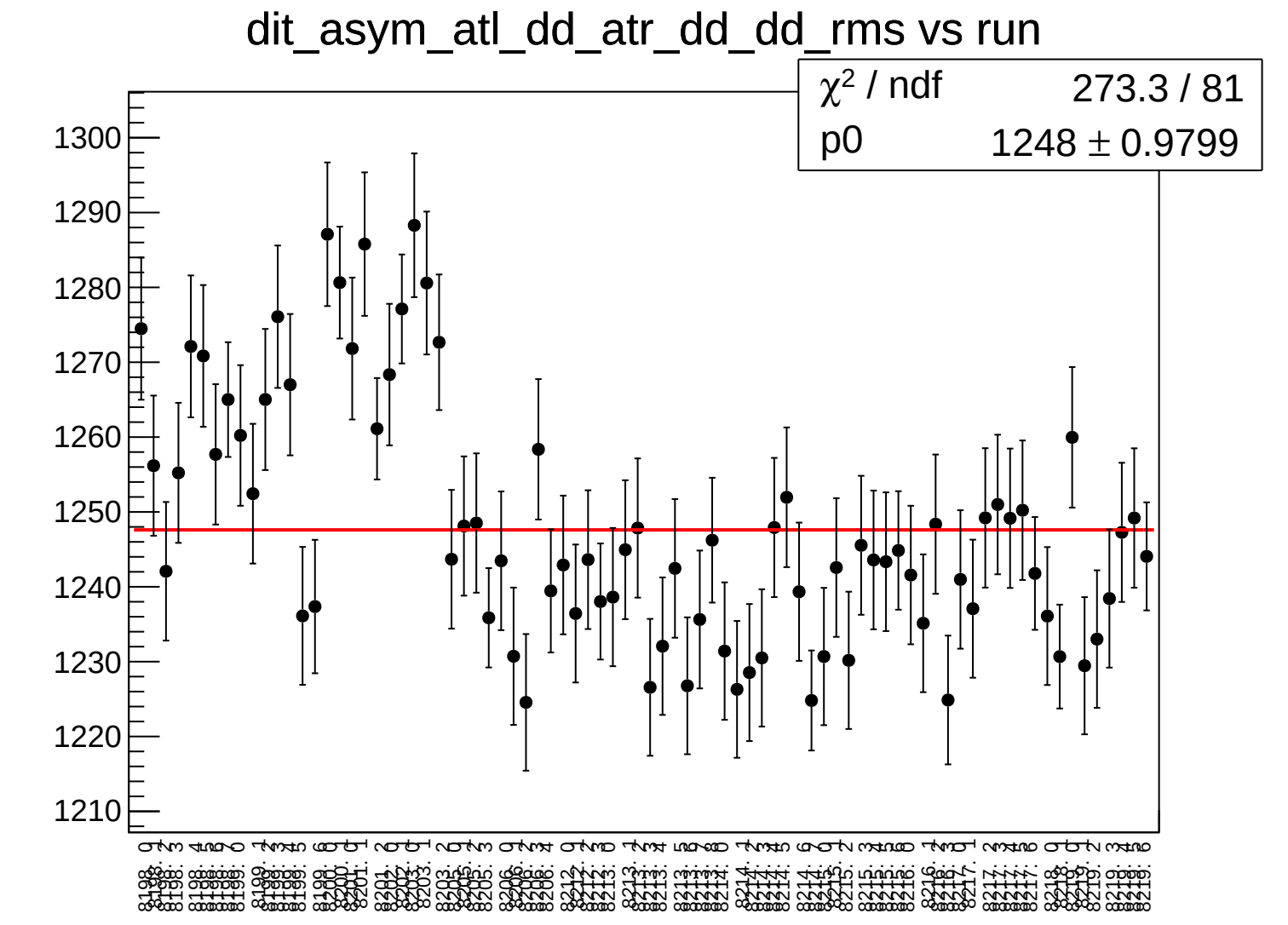

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.69 / 81
p0 1404 ± 1371
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −1107
Std Dev 0
3
2
1
0
−1
−2
−3

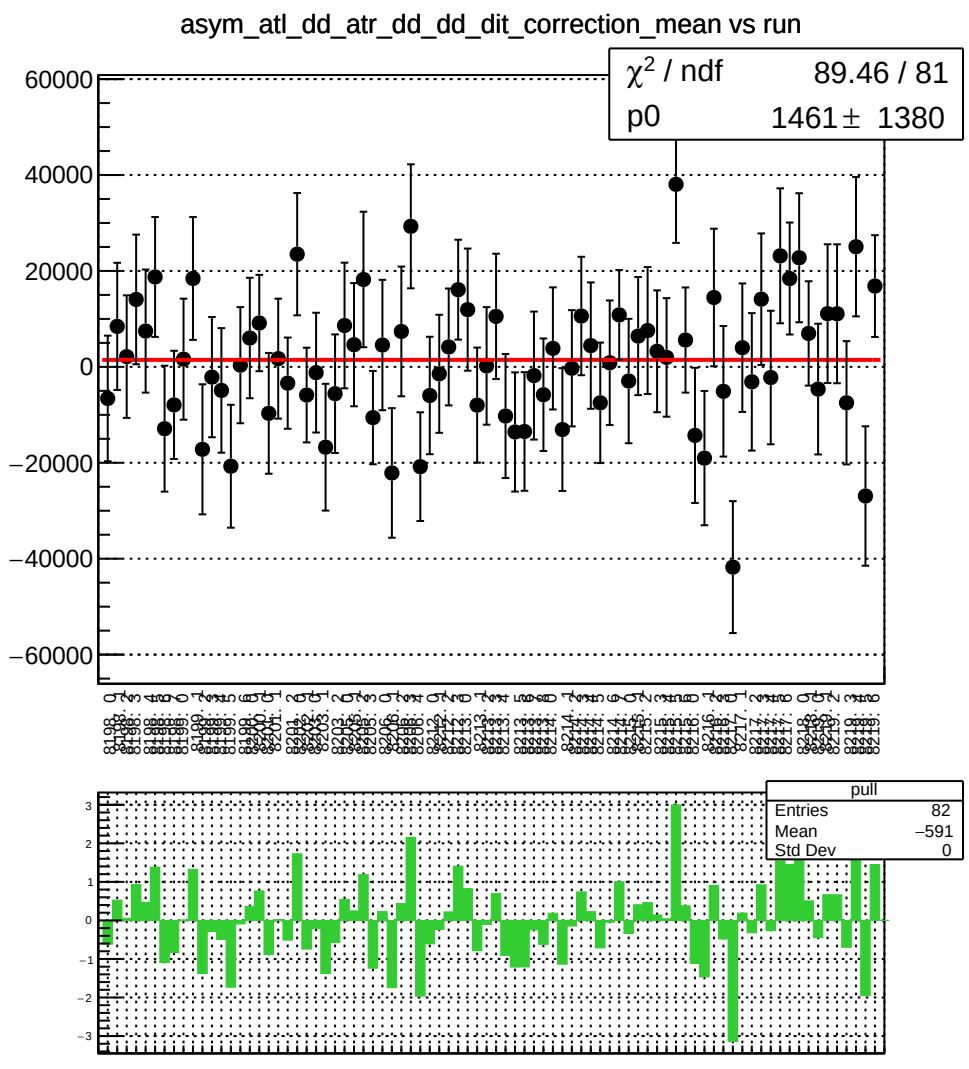

pull1D
Entries 82
Mean −0.002327
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

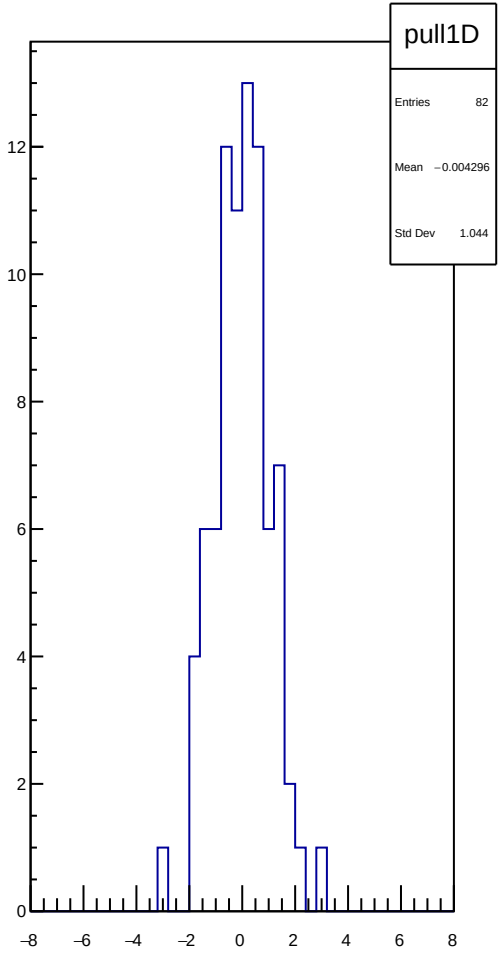

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4273 / 81
p0 1233 ± 0.9698
1400
1350
1300
1250
1200
1150

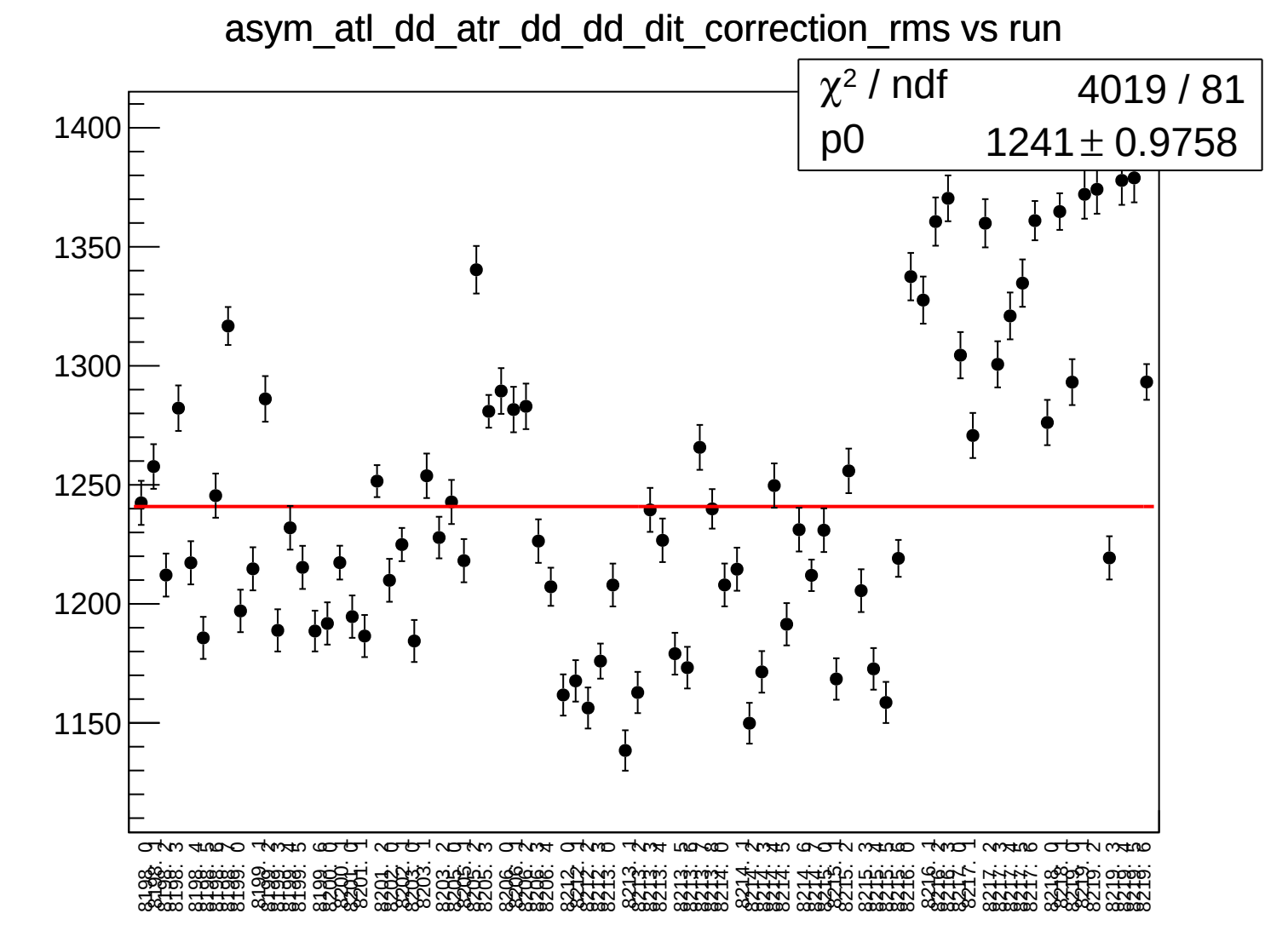

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 76.55 / 81
p0 2311 ± 1386
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −773.2
Std Dev 0
3
2
1
0
−1
−2

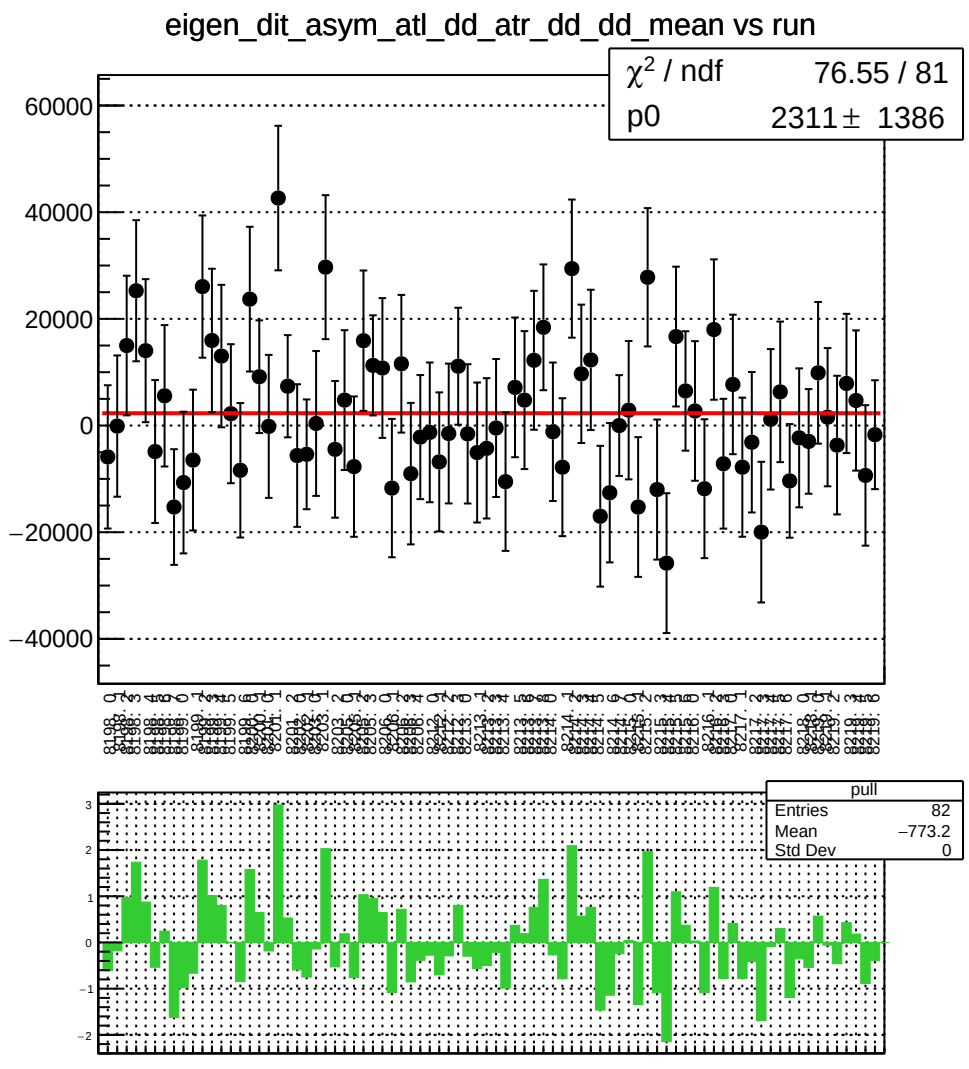

pull1D
Entries 82
Mean 0.005849
Std Dev 0.9662
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

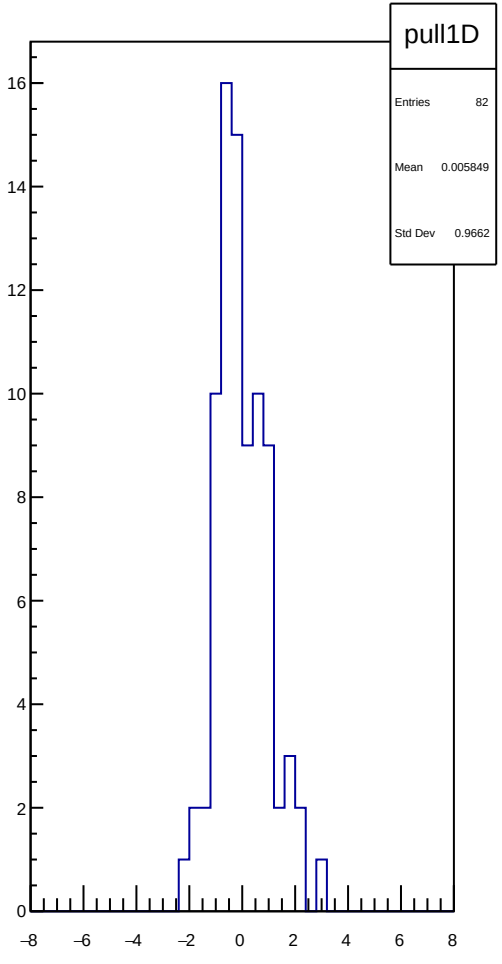

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 273.3 / 81
p0 1248 ± 0.9799
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

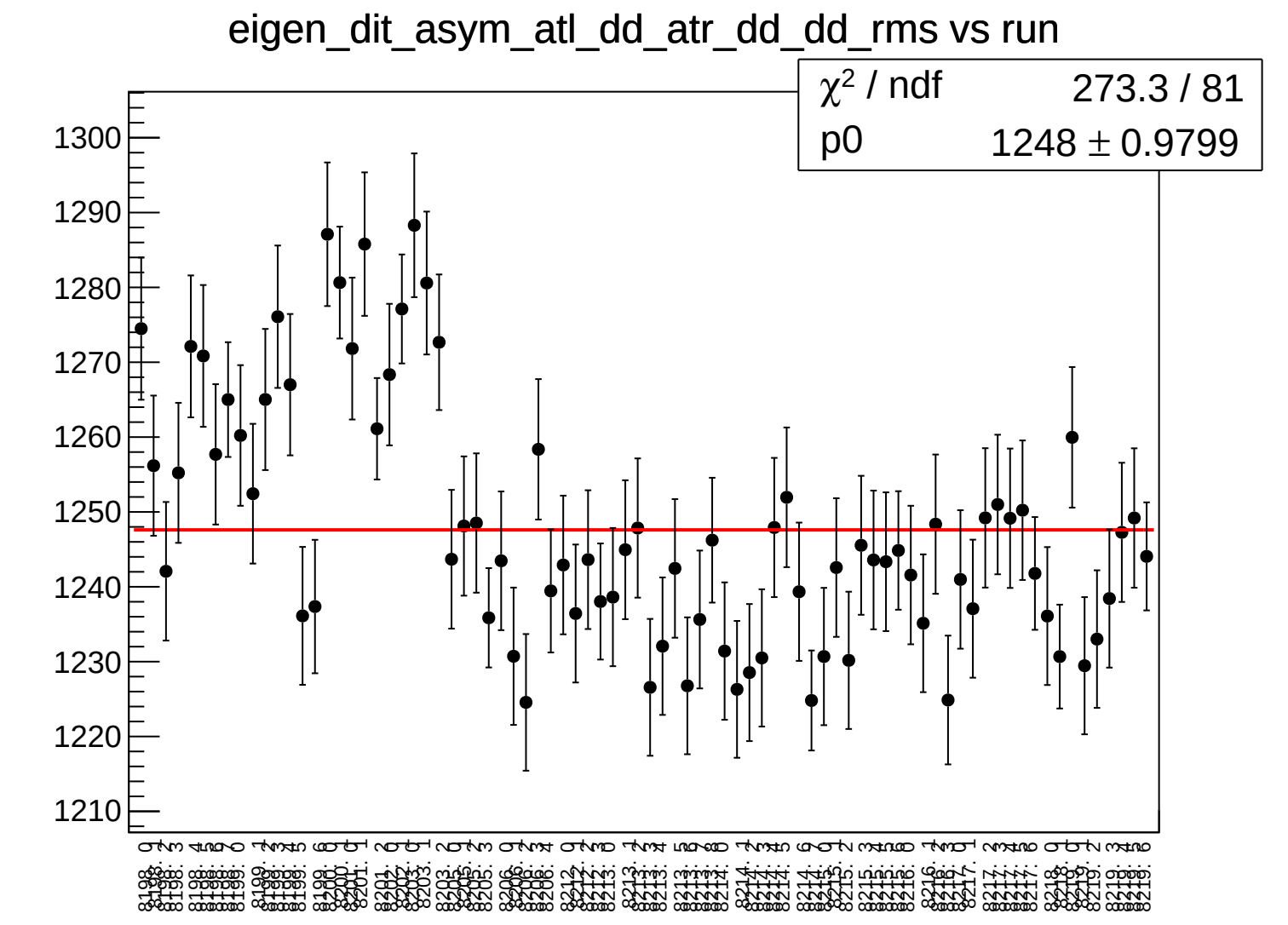

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 89.46 / 81
p0 1461 ± 1380
pull
Entries 82
Mean −591
Std Dev 0

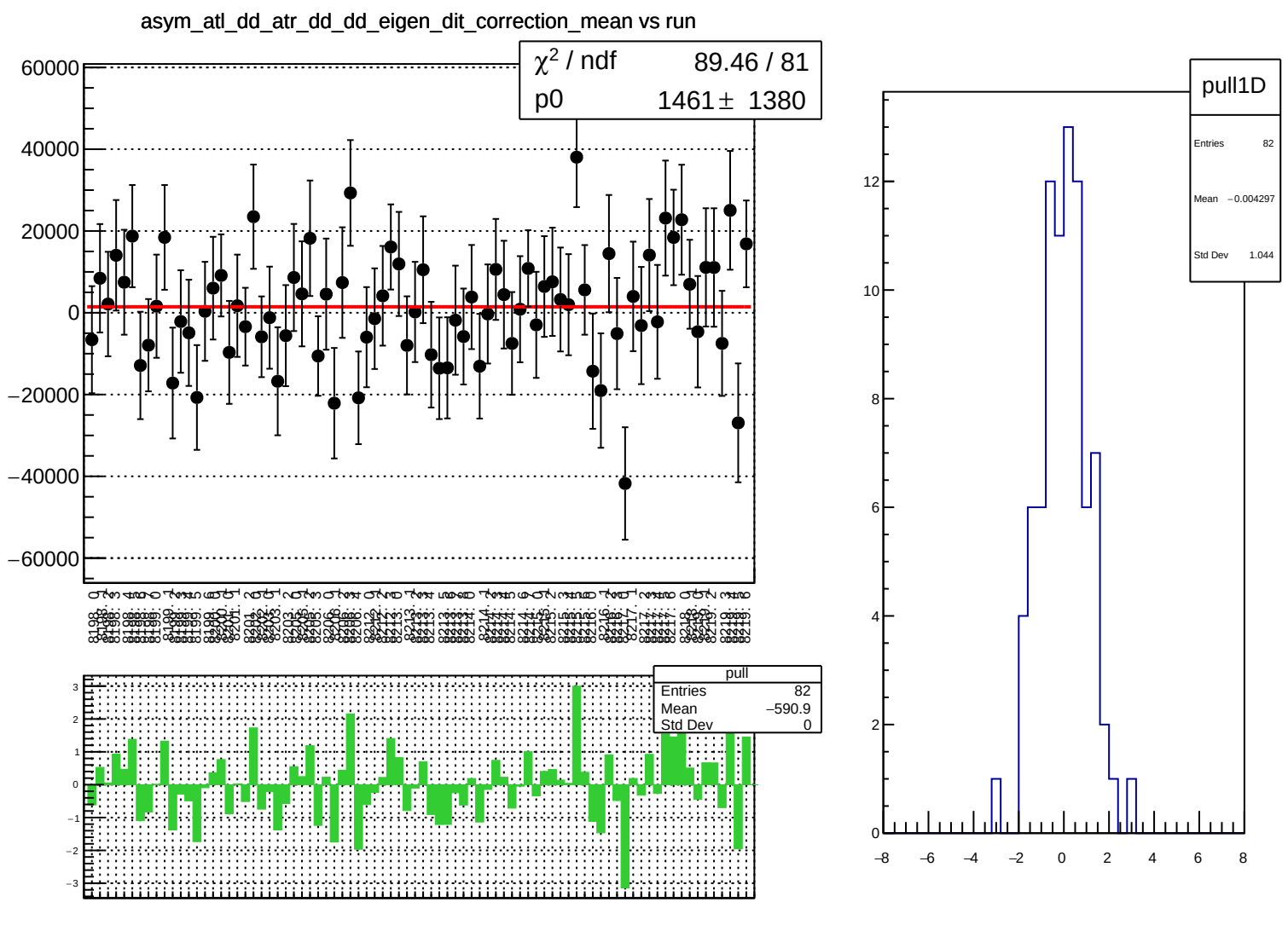

pull1D
Entries 82
Mean −0.004296
Std Dev 1.044

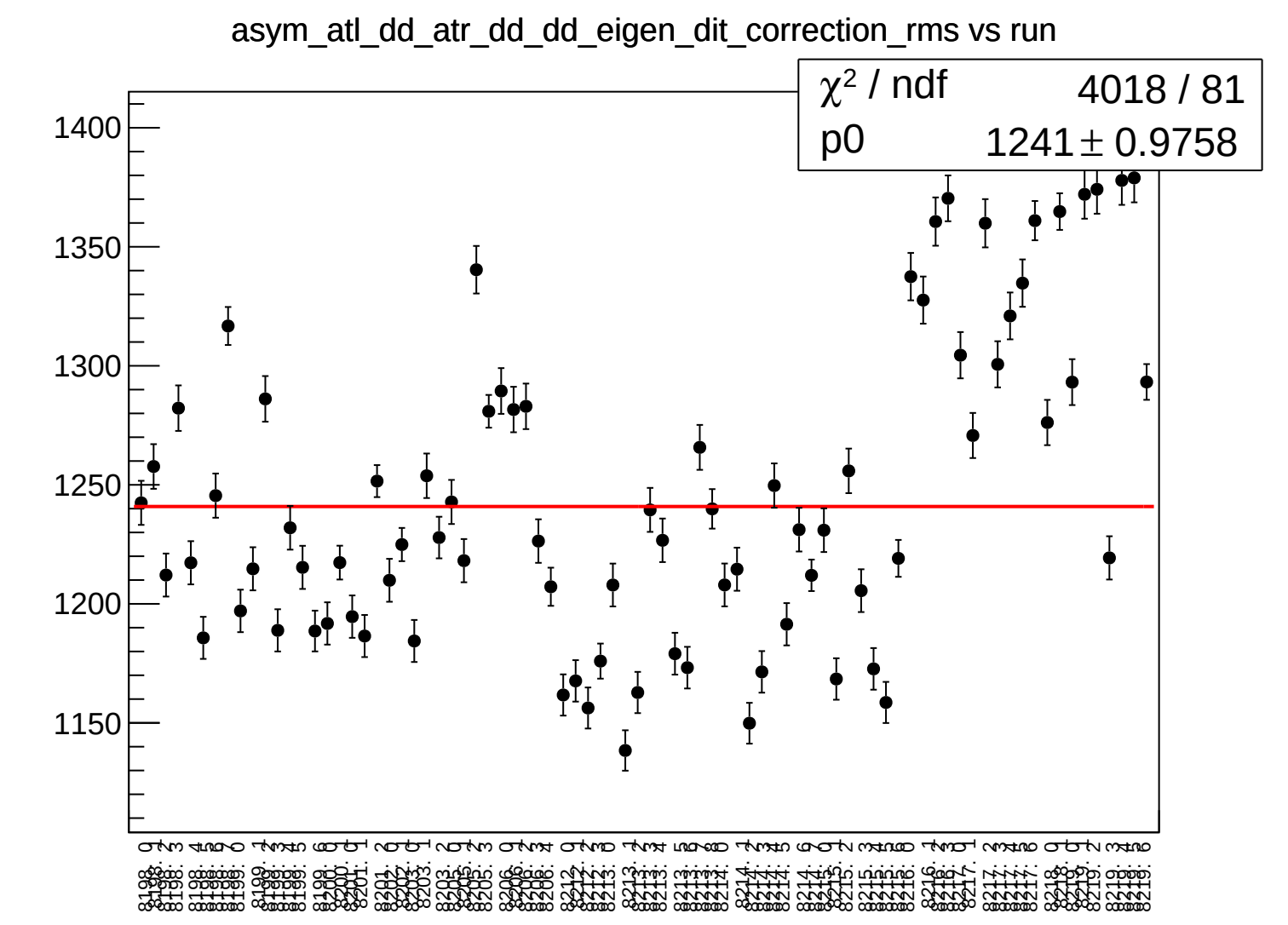

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 4019 / 81
p0 1241 ± 0.9758
1400
1350
1300
1250
1200
1150

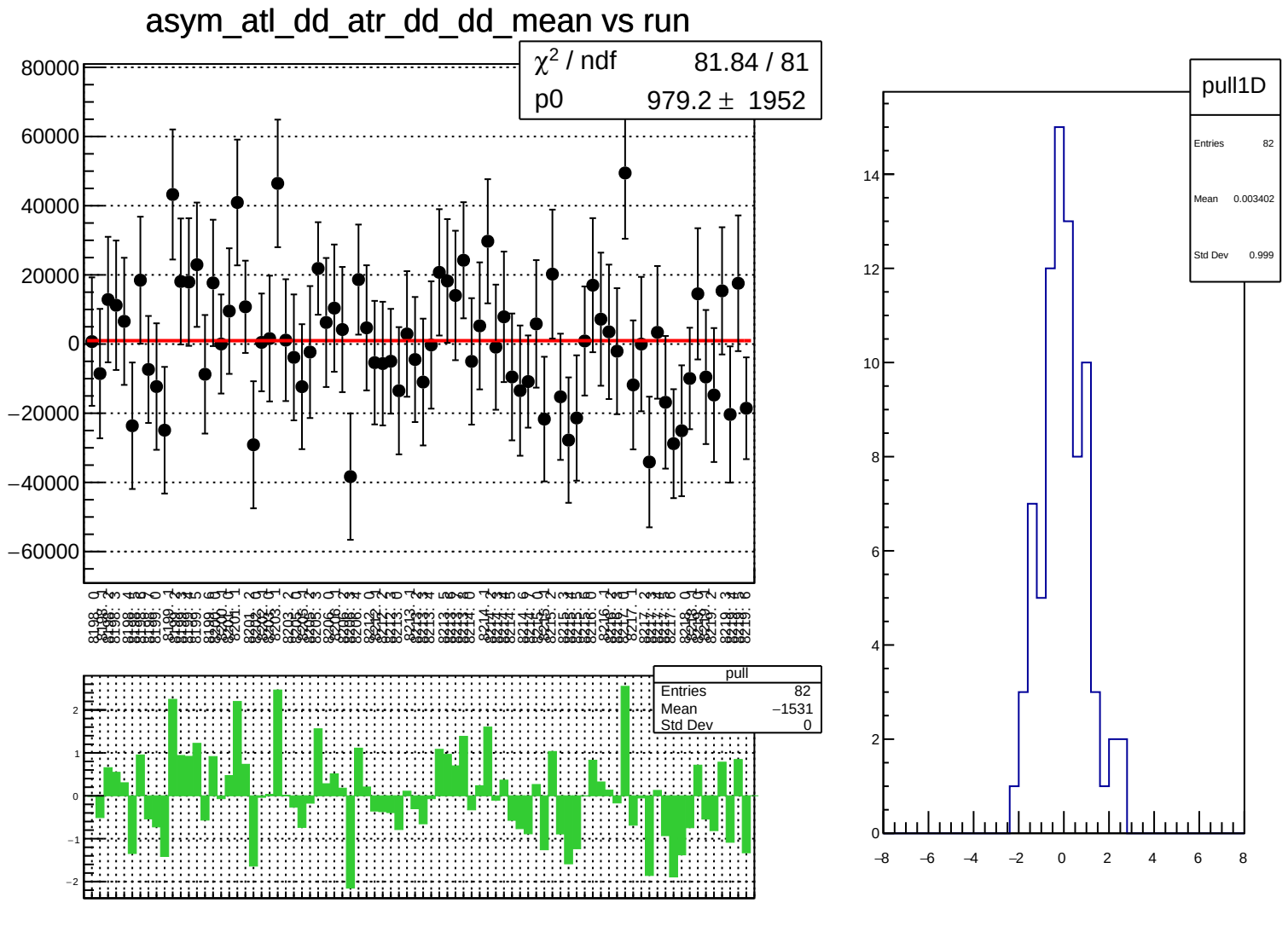

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 76.55 / 81
p0 2311 ± 1386
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −773.2
Std Dev 0
3
2
1
0
−1
−2

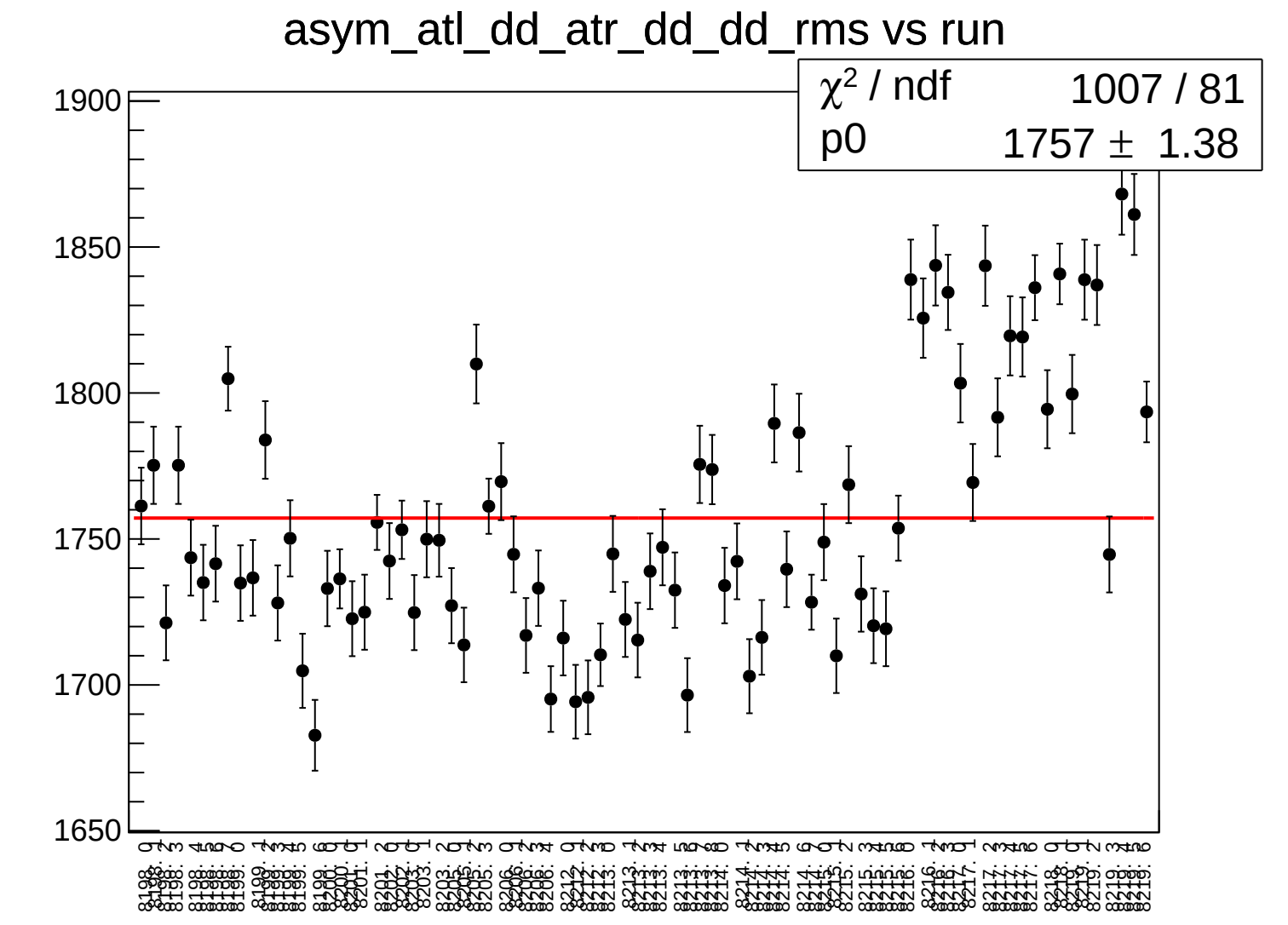

pull1D
Entries 82
Mean 0.005849
Std Dev 0.9662
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

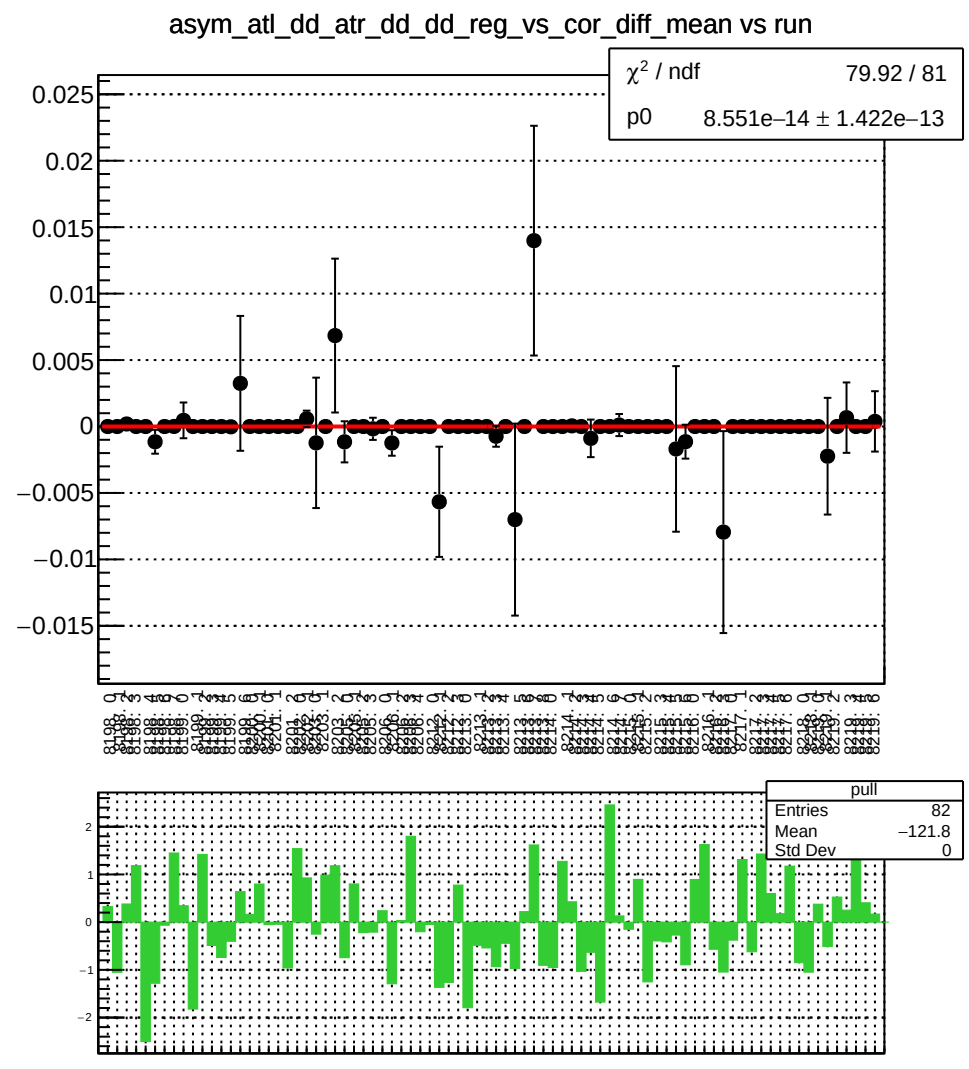

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 273.3 / 81
p0 1248 ± 0.9799
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

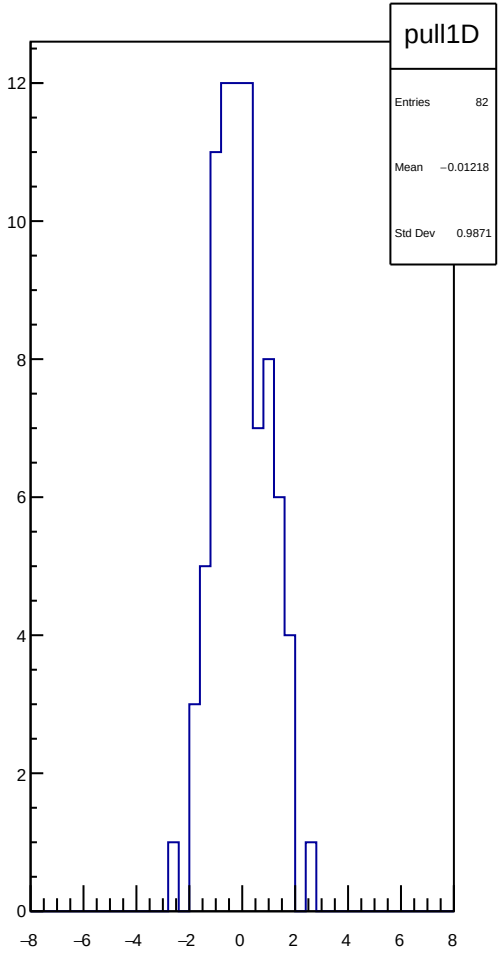

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.46 / 81
p0 1461 ± 1380
pull
Entries 82
Mean −590.9
Std Dev 0
pull1D
Entries 82
Mean −0.004297
Std Dev 1.044

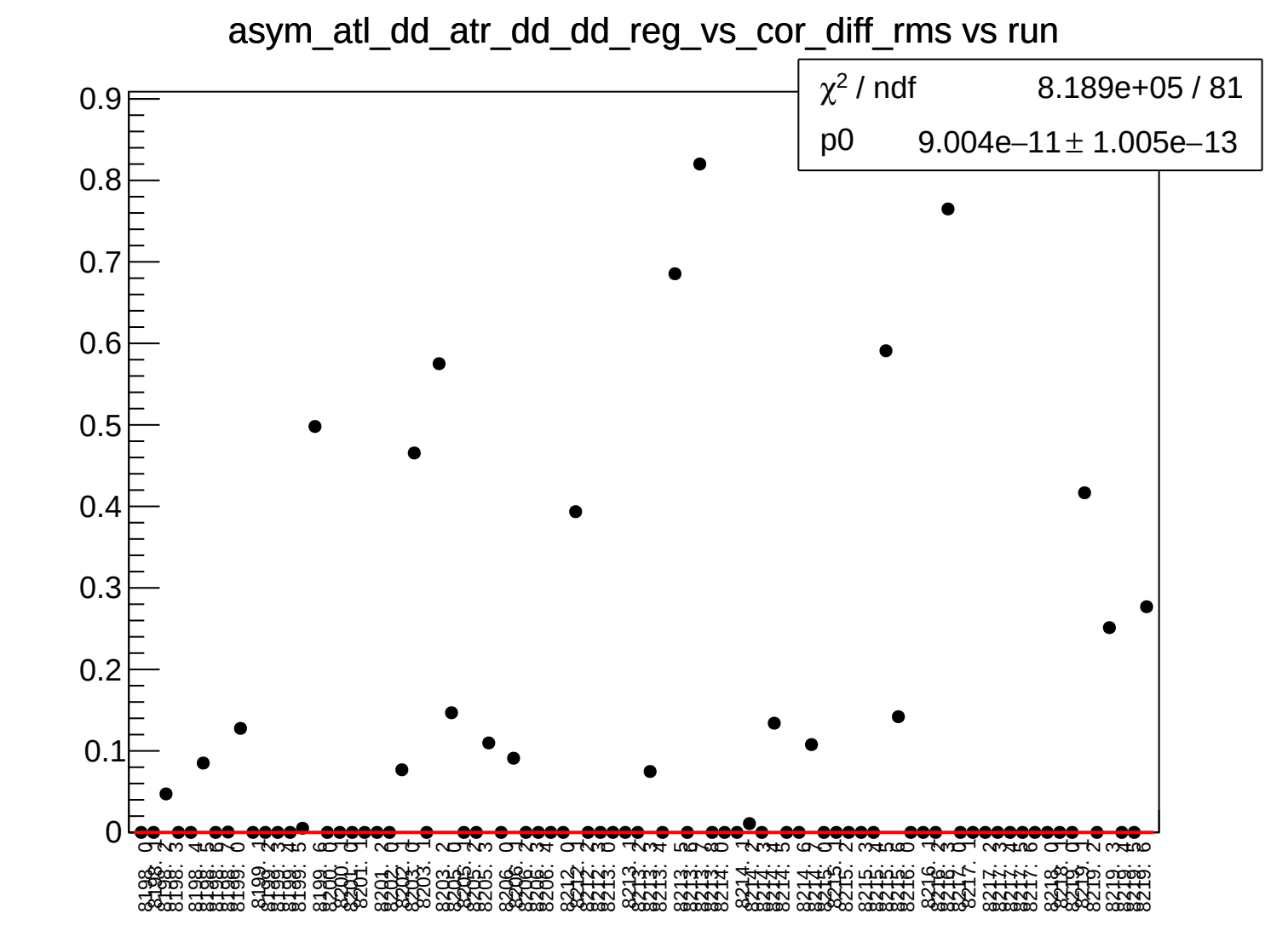

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4018 / 81
p0 1241 ± 0.9758
1400
1350
1300
1250
1200
1150

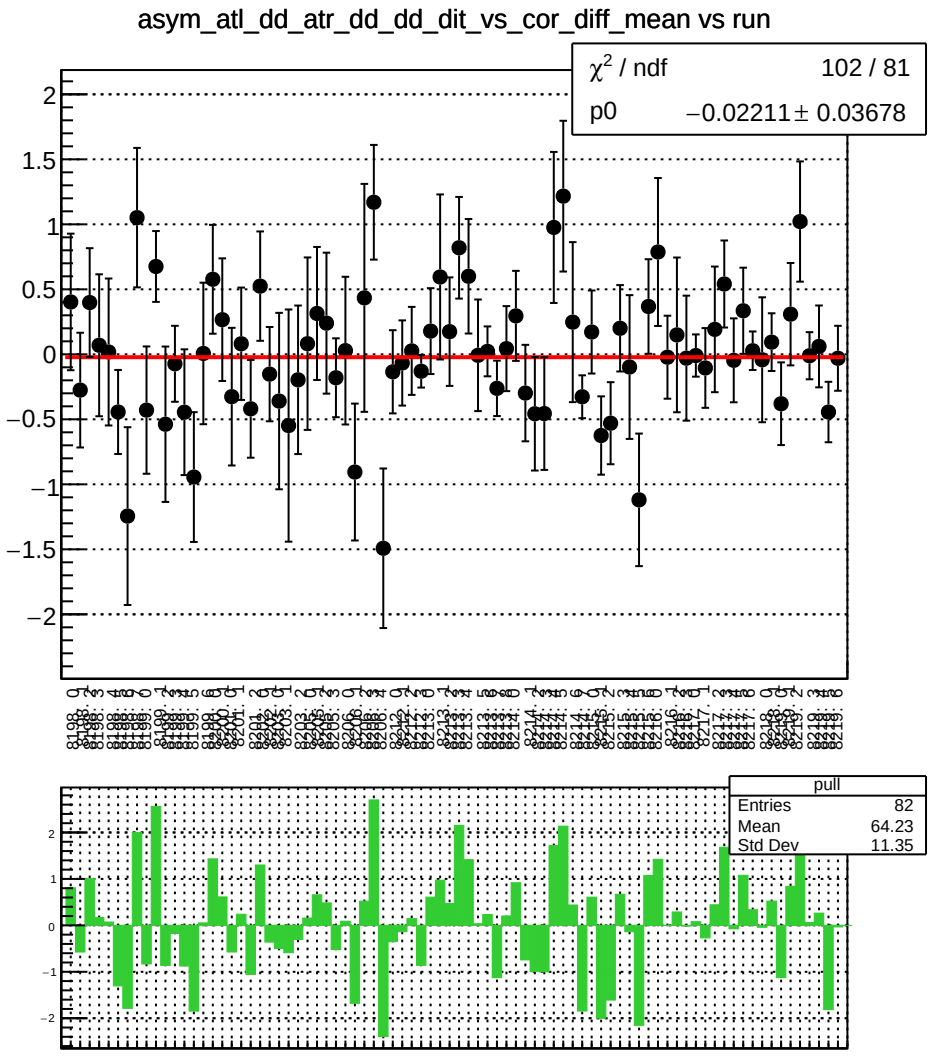

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.84 / 81
p0 979.2 ± 1952
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −1531
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.003402
Std Dev 0.999
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

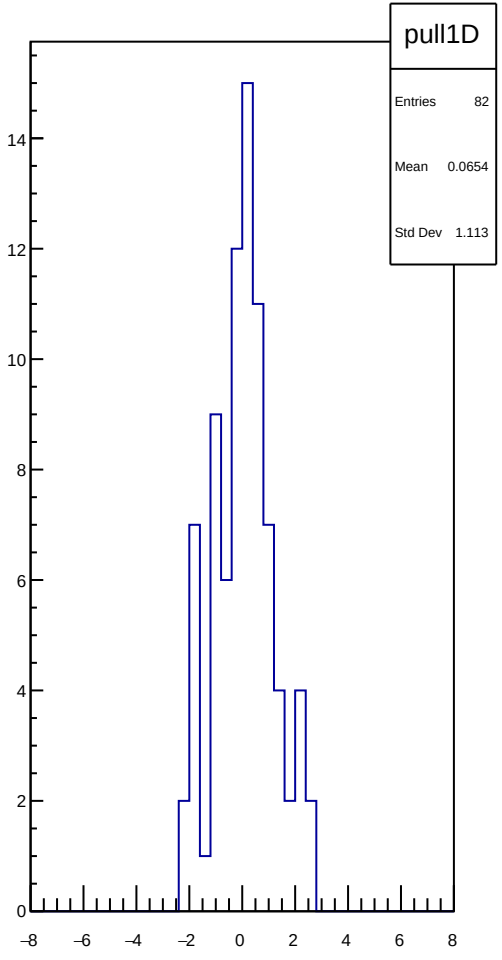

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1007 / 81
p0 1757 ± 1.38
1900
1850
1800
1750
1700
1650

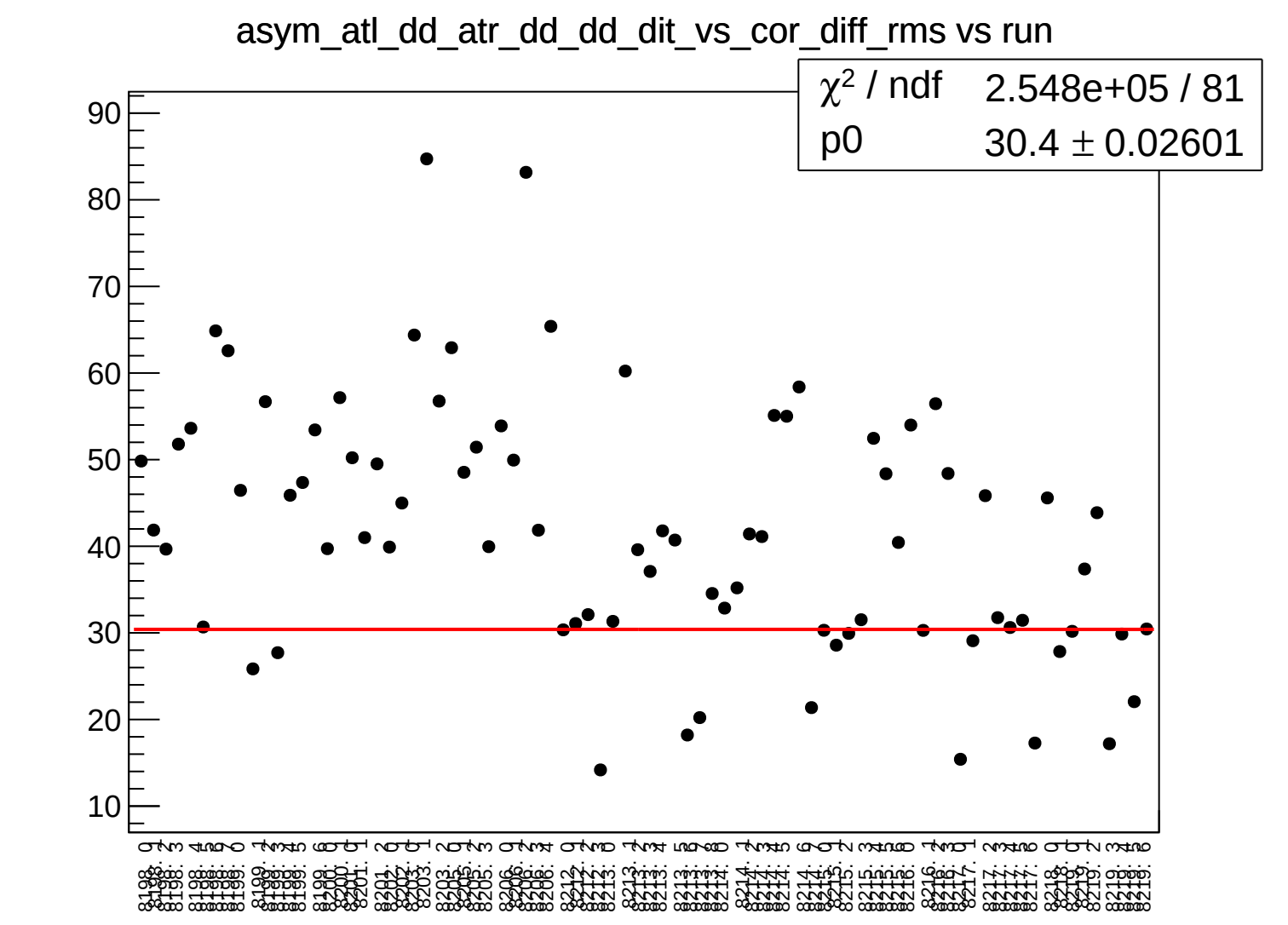

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.92 / 81
p0 8.551e−14 ± 1.422e−13
pull
Entries 82
Mean −121.8
Std Dev 0

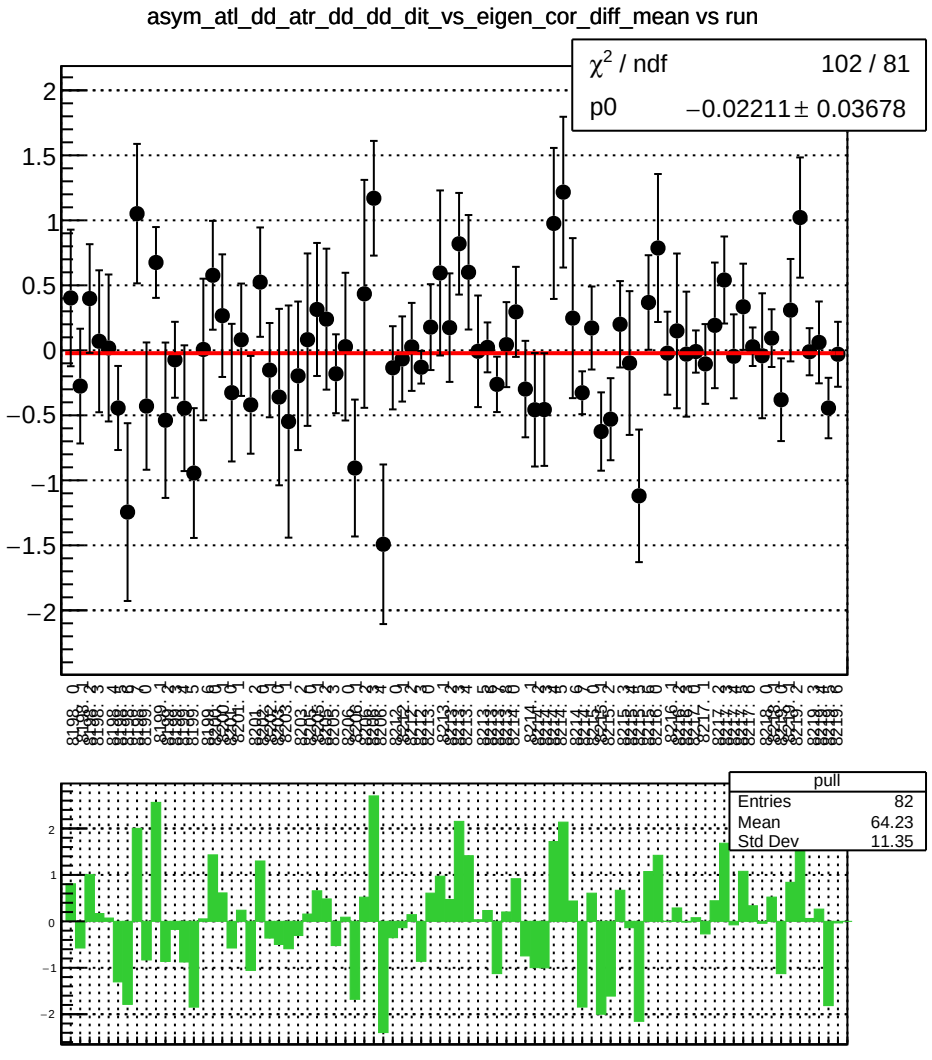

pull1D
Entries 82
Mean −0.01218
Std Dev 0.9871

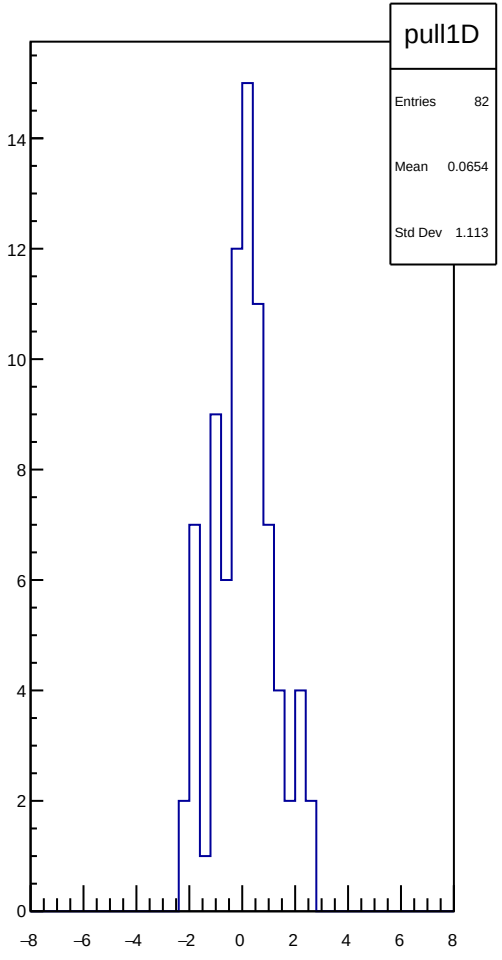

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.189e+05 / 81
p0 9.004e−11 ± 1.005e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

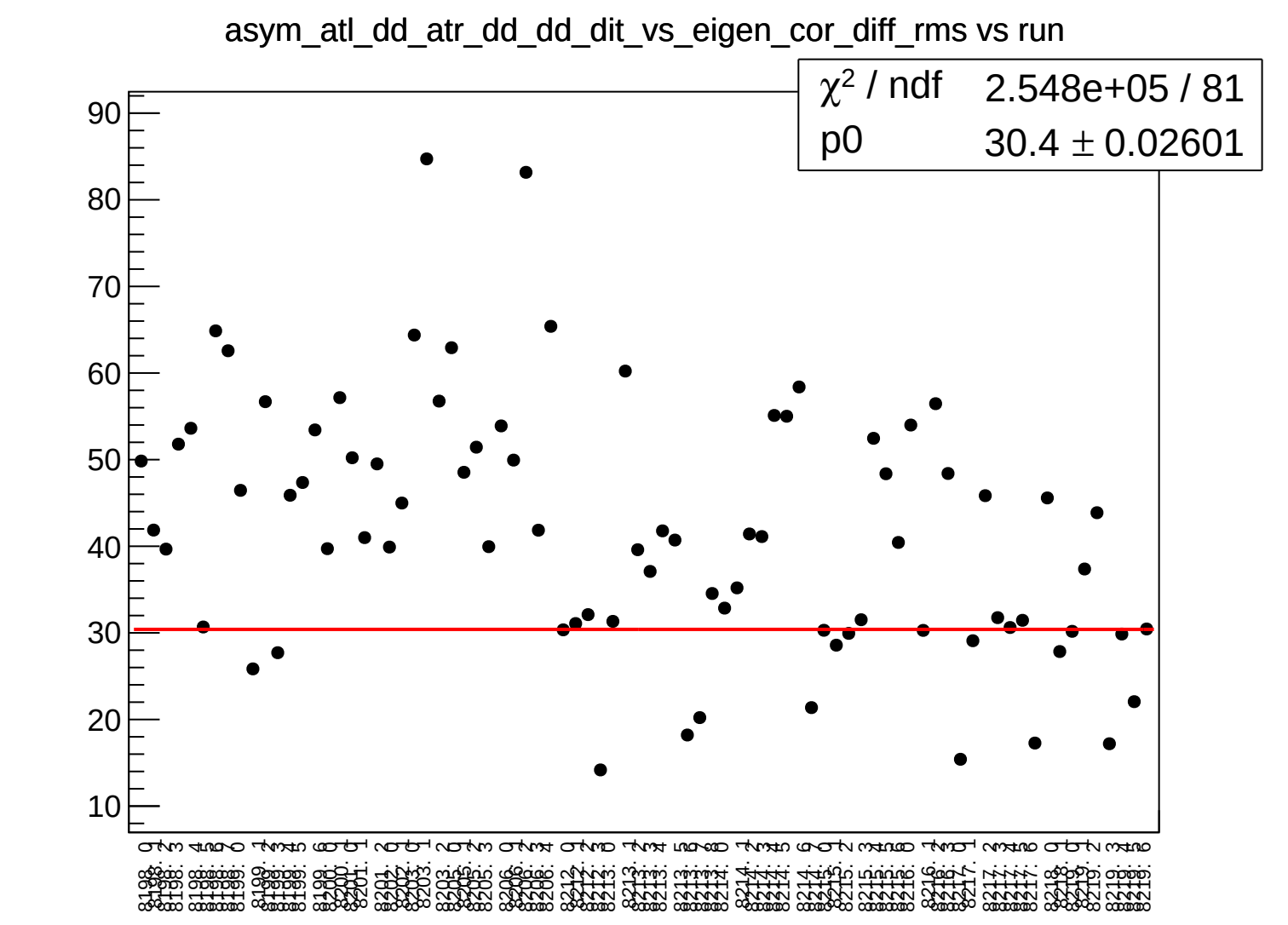

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 81
p0 −0.02211 ± 0.03678
pull
Entries 82
Mean 64.23
Std Dev 11.35

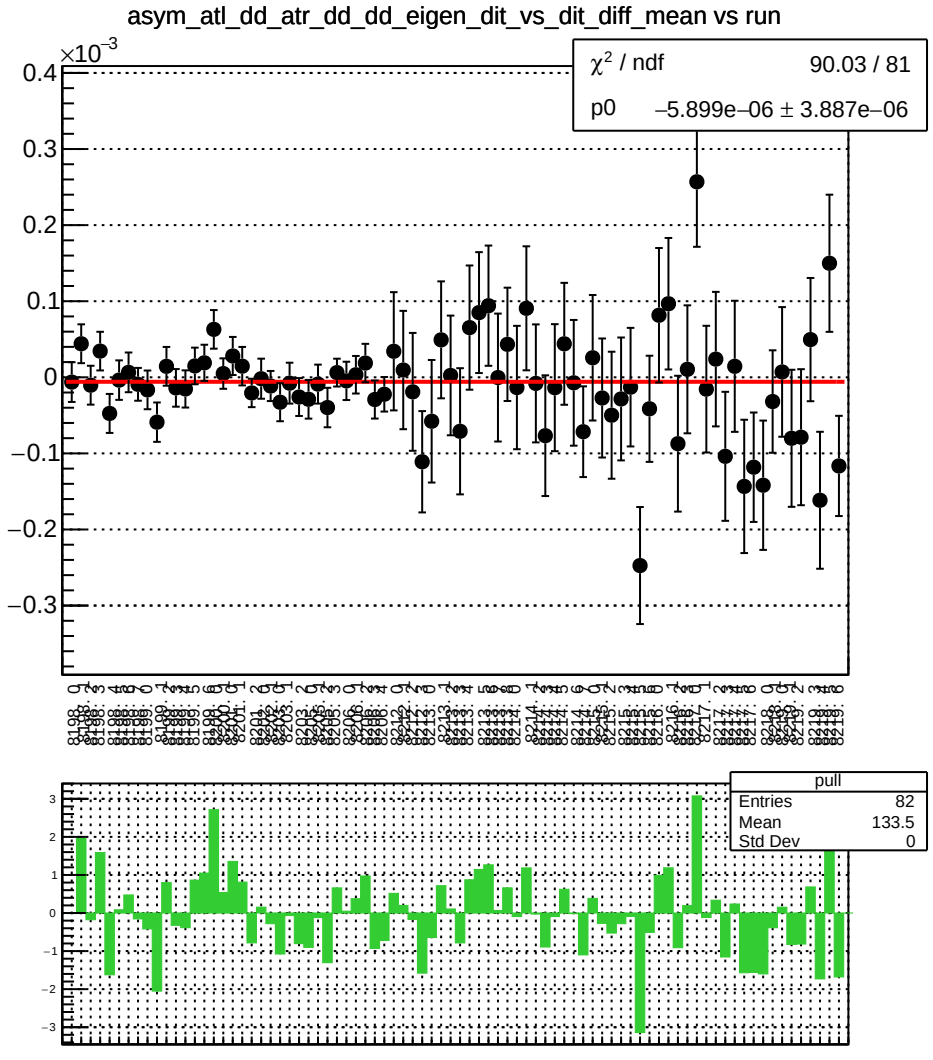

pull1D
Entries 82
Mean 0.0654
Std Dev 1.113

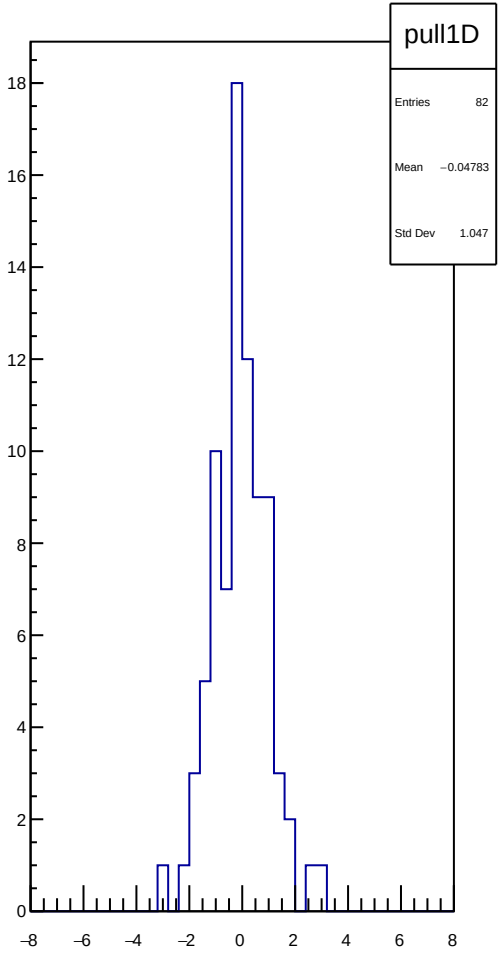

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.548e+05 / 81
p0 30.4 ± 0.02601
90
80
70
60
50
40
30
20
10

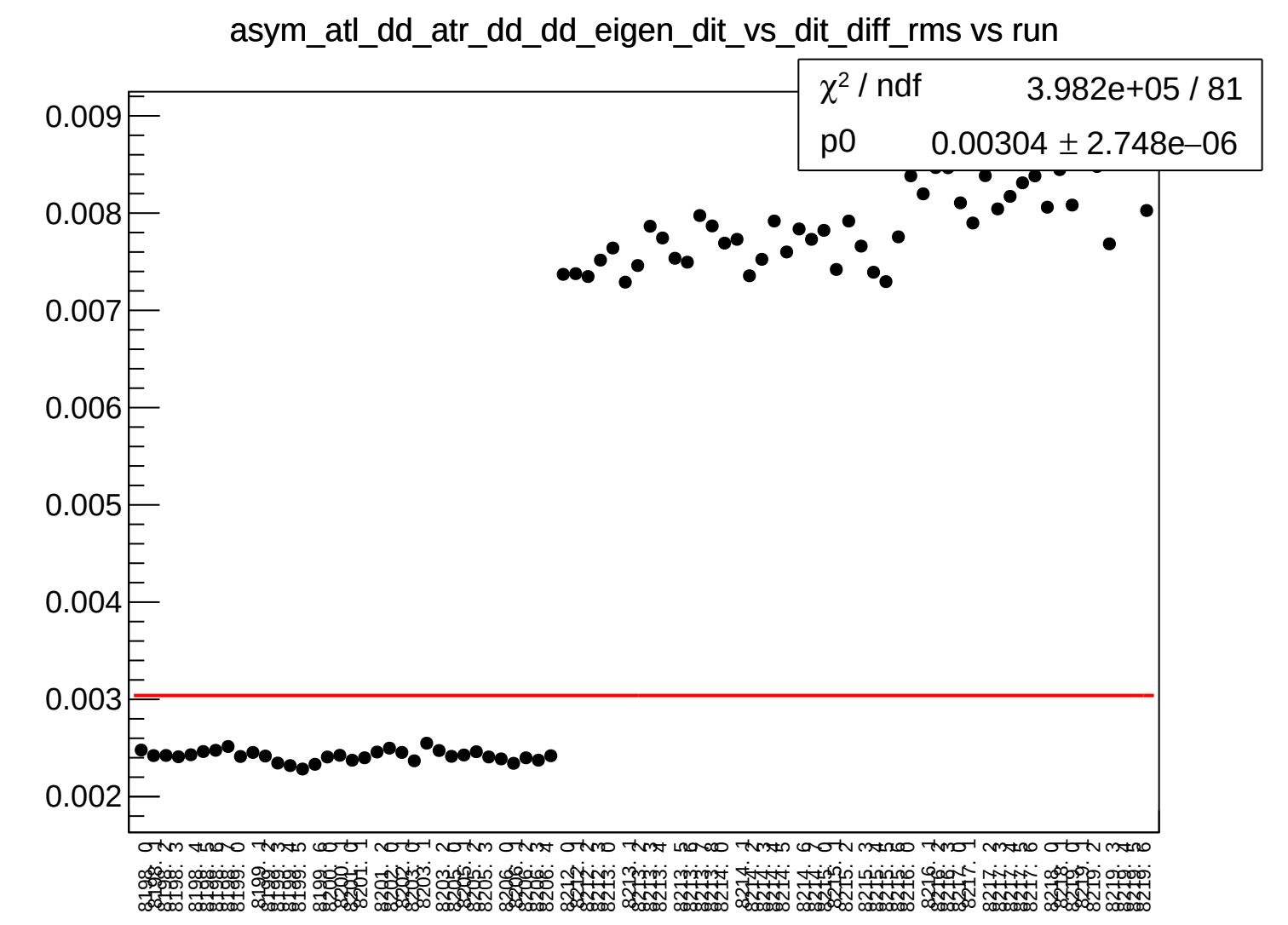

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 81
p0 −0.02211 ± 0.03678
pull
Entries 82
Mean 64.23
Std Dev 11.35

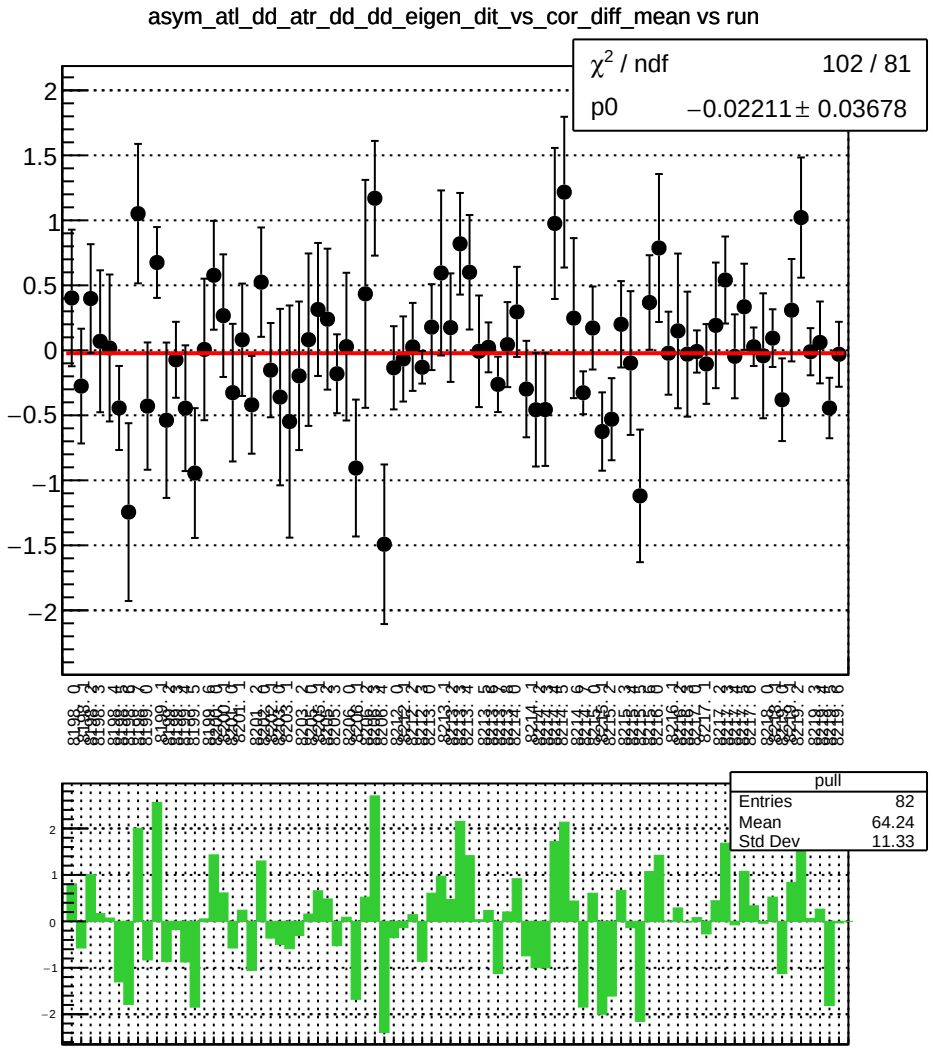

pull1D
Entries 82
Mean 0.0654
Std Dev 1.113

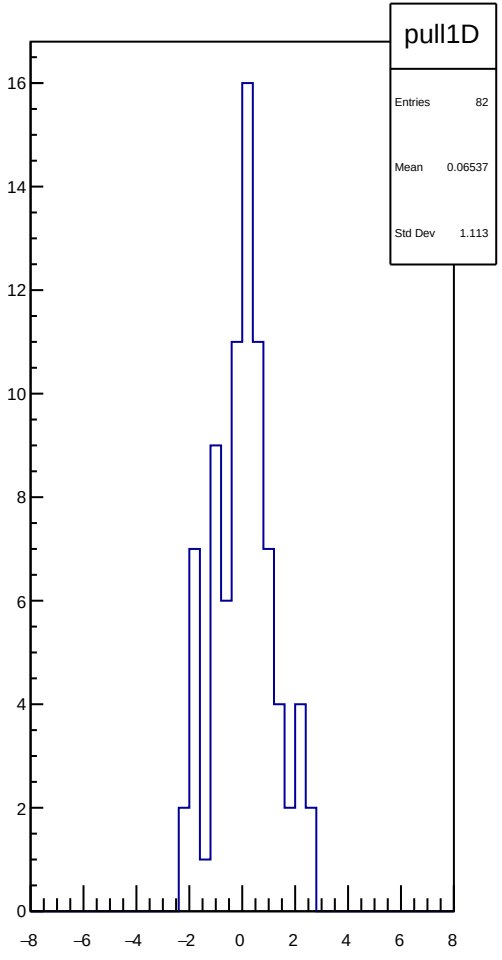

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.548e+05 / 81
p0 30.4 ± 0.02601
90
80
70
60
50
40
30
20
10

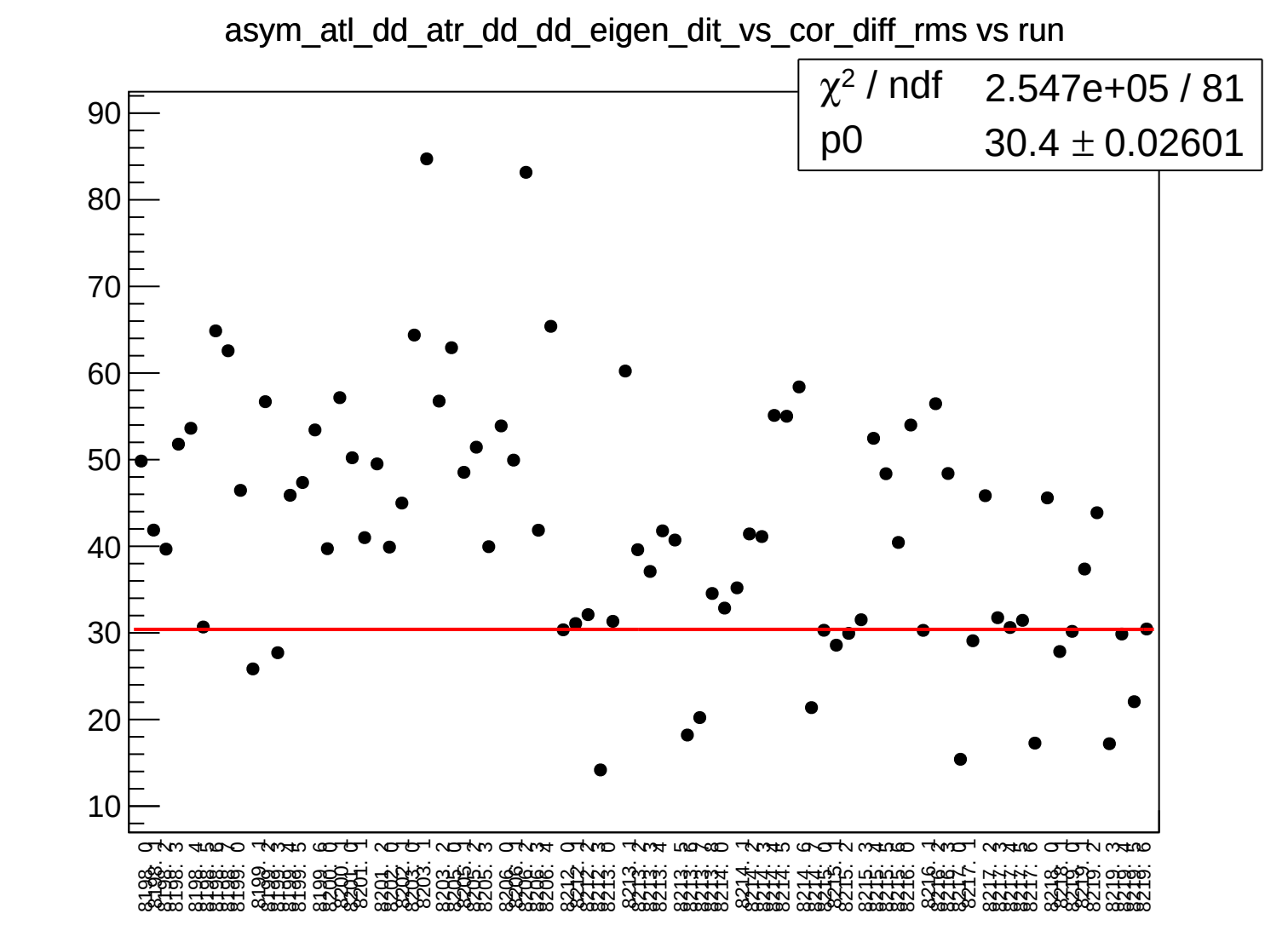

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.03 / 81
p0 −5.899e−06 ± 3.887e−06
pull
Entries 82
Mean 133.5
Std Dev 0

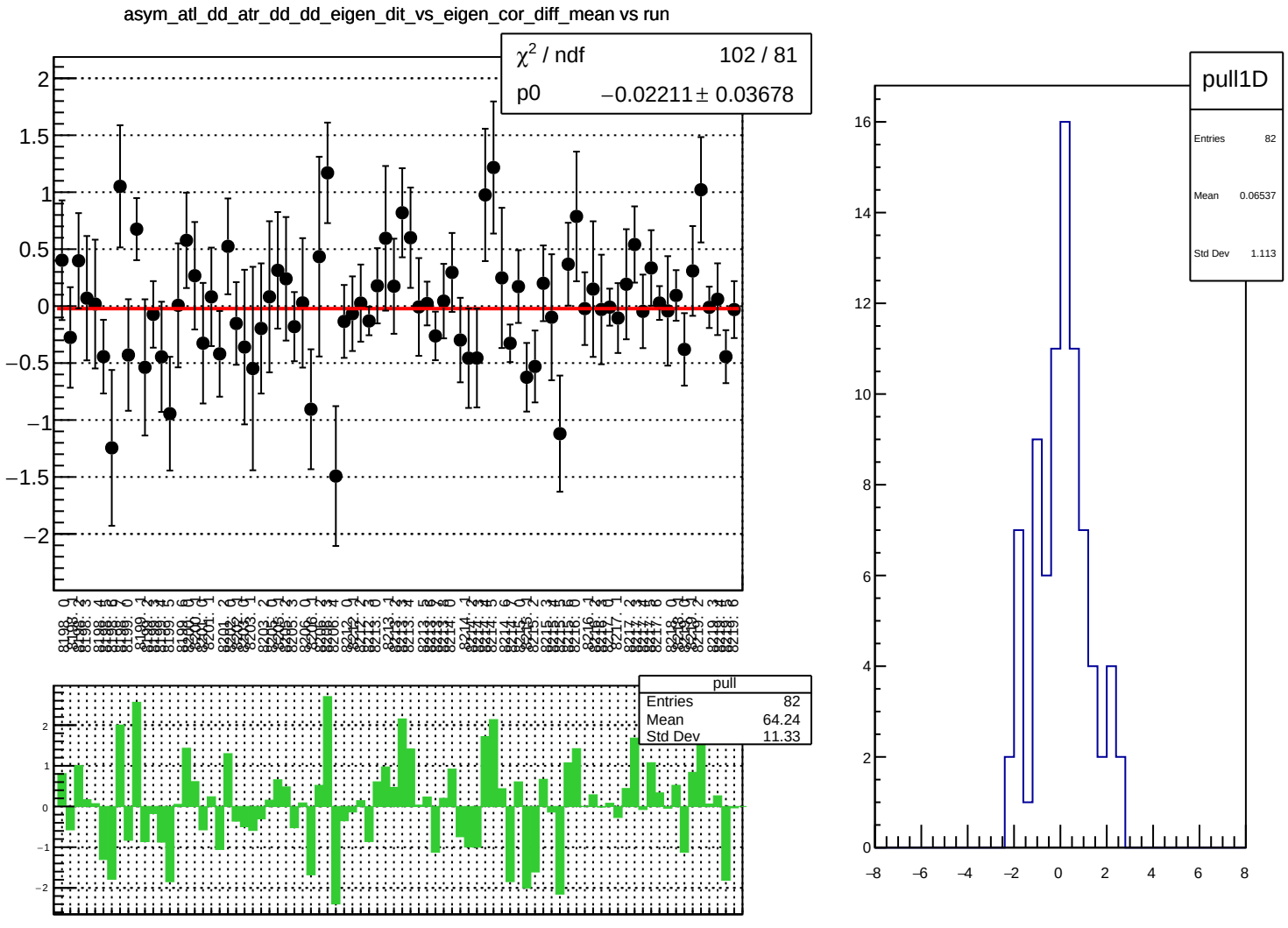

pull1D
Entries 82
Mean −0.04783
Std Dev 1.047

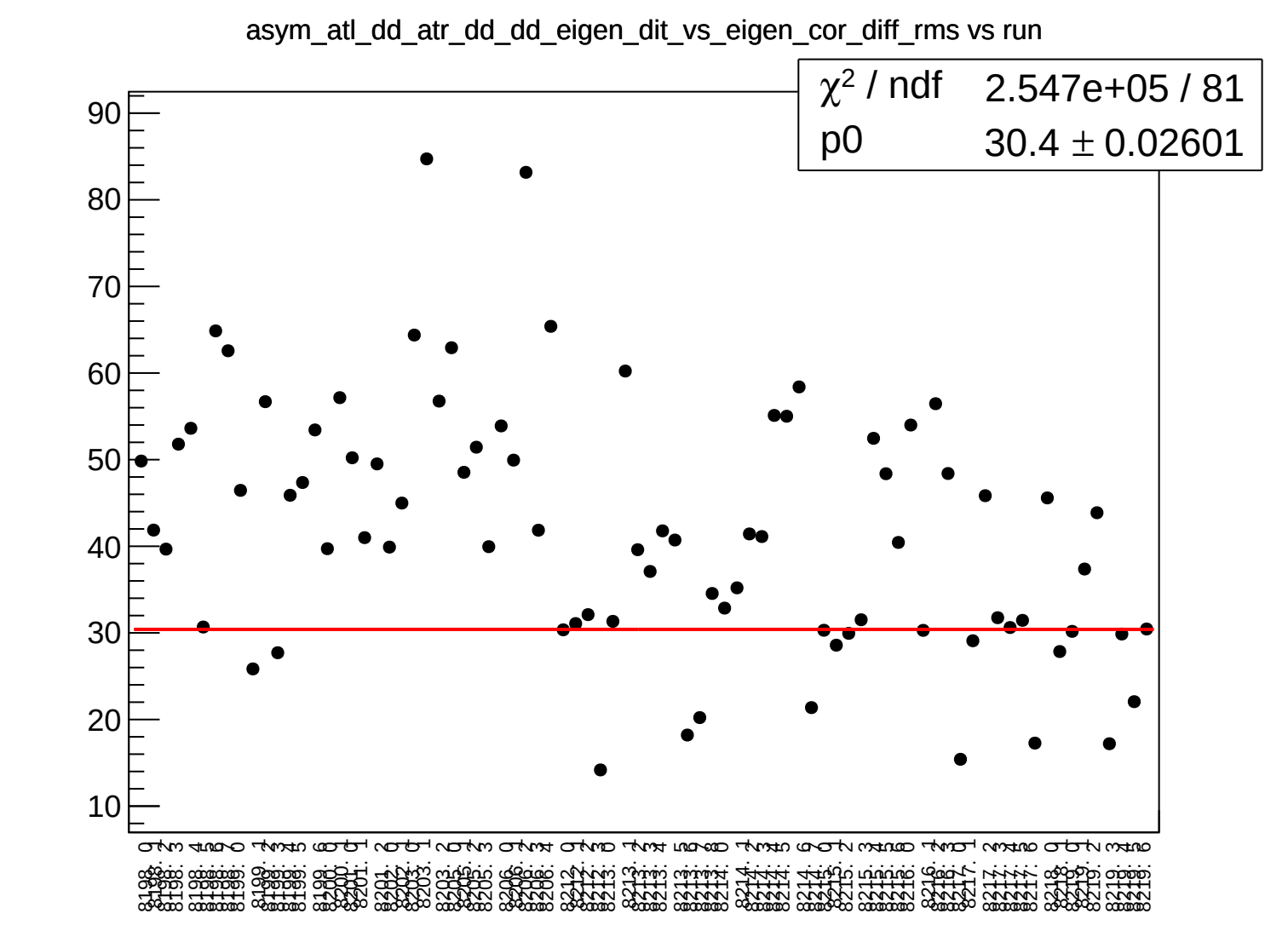

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.982e+05 / 81
p0 0.00304 ± 2.748e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

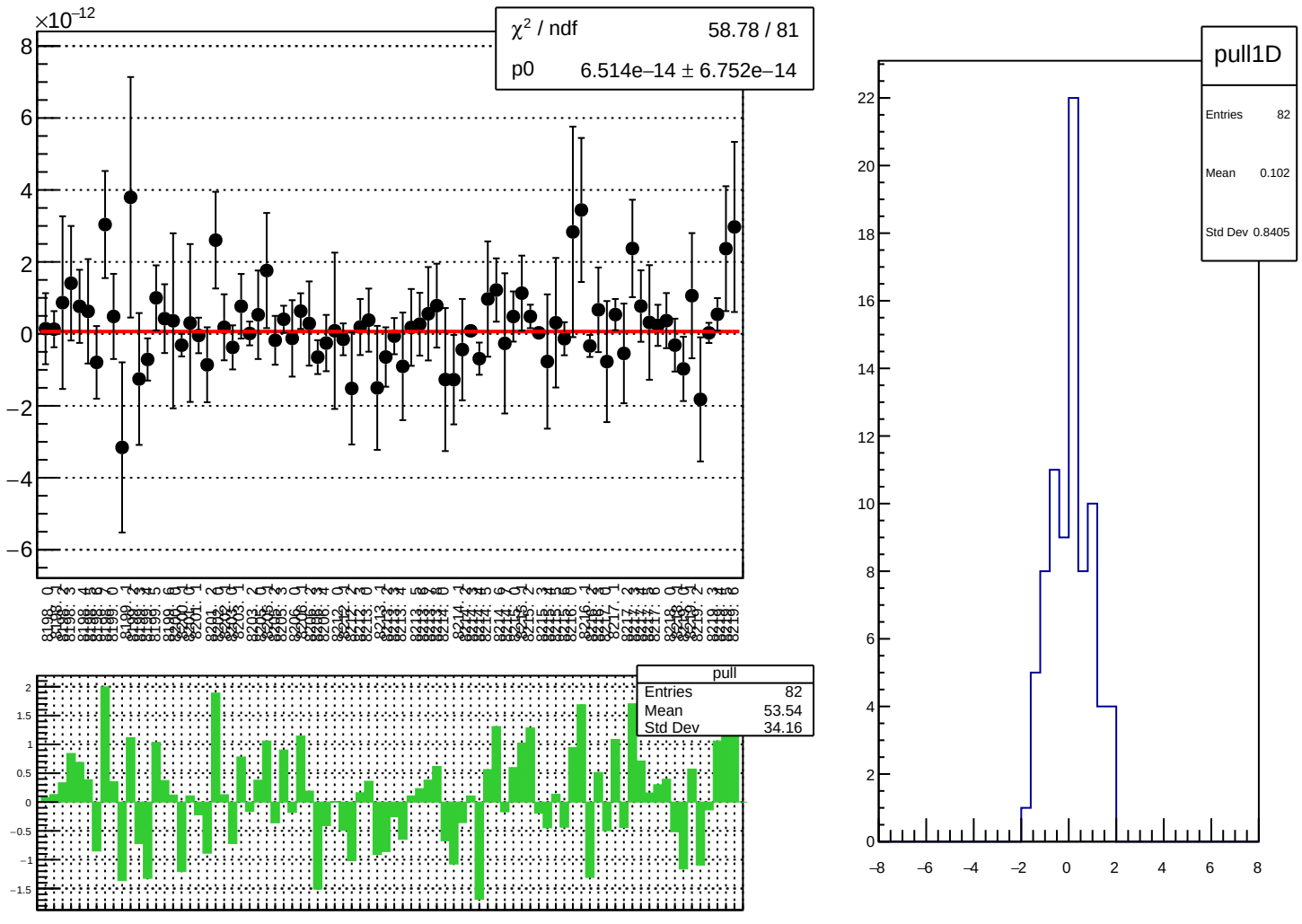

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 81
p0 −0.02211 ± 0.03678
pull
Entries 82
Mean 64.24
Std Dev 11.33

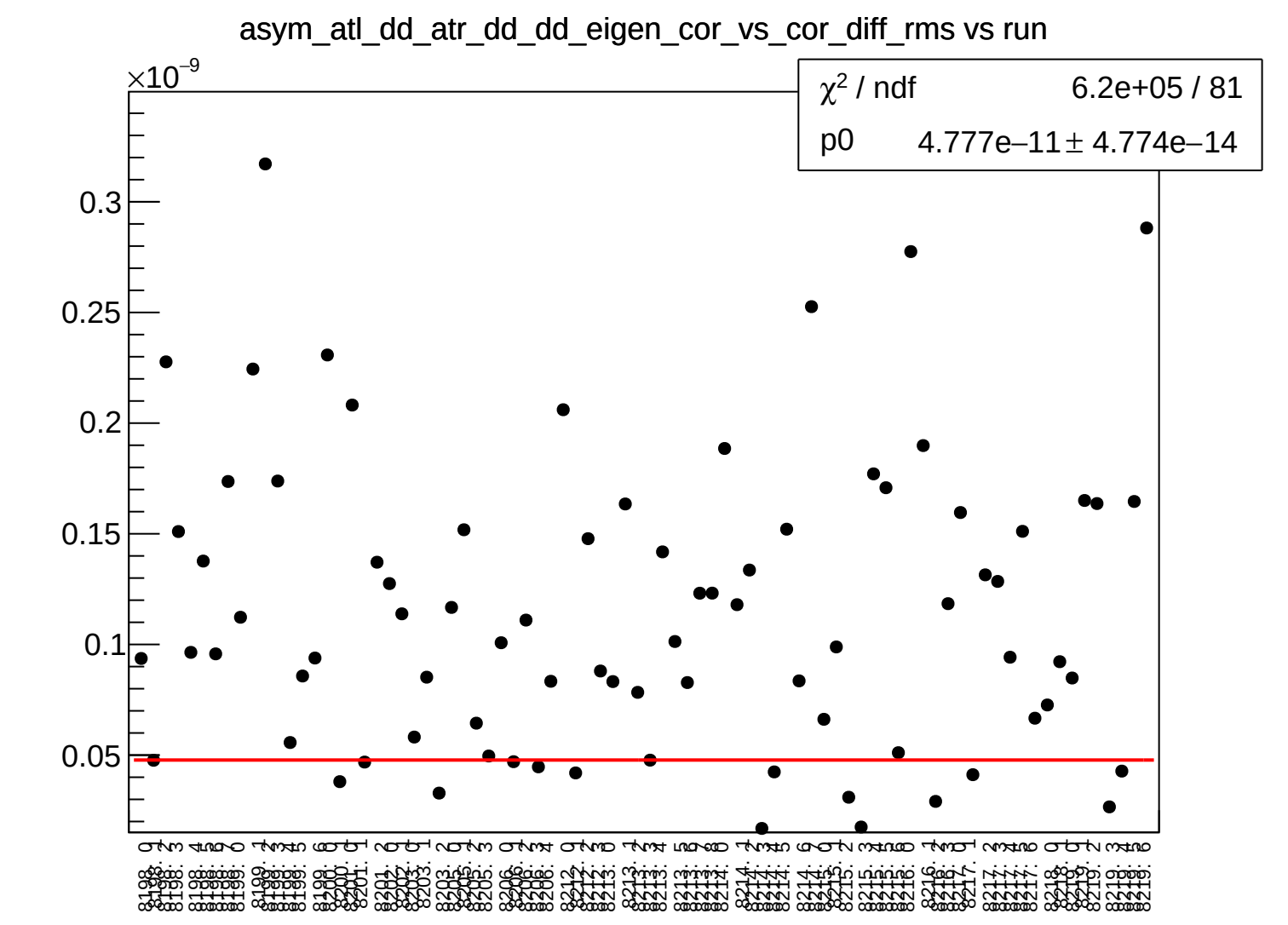

pull1D
Entries 82
Mean 0.06537
Std Dev 1.113

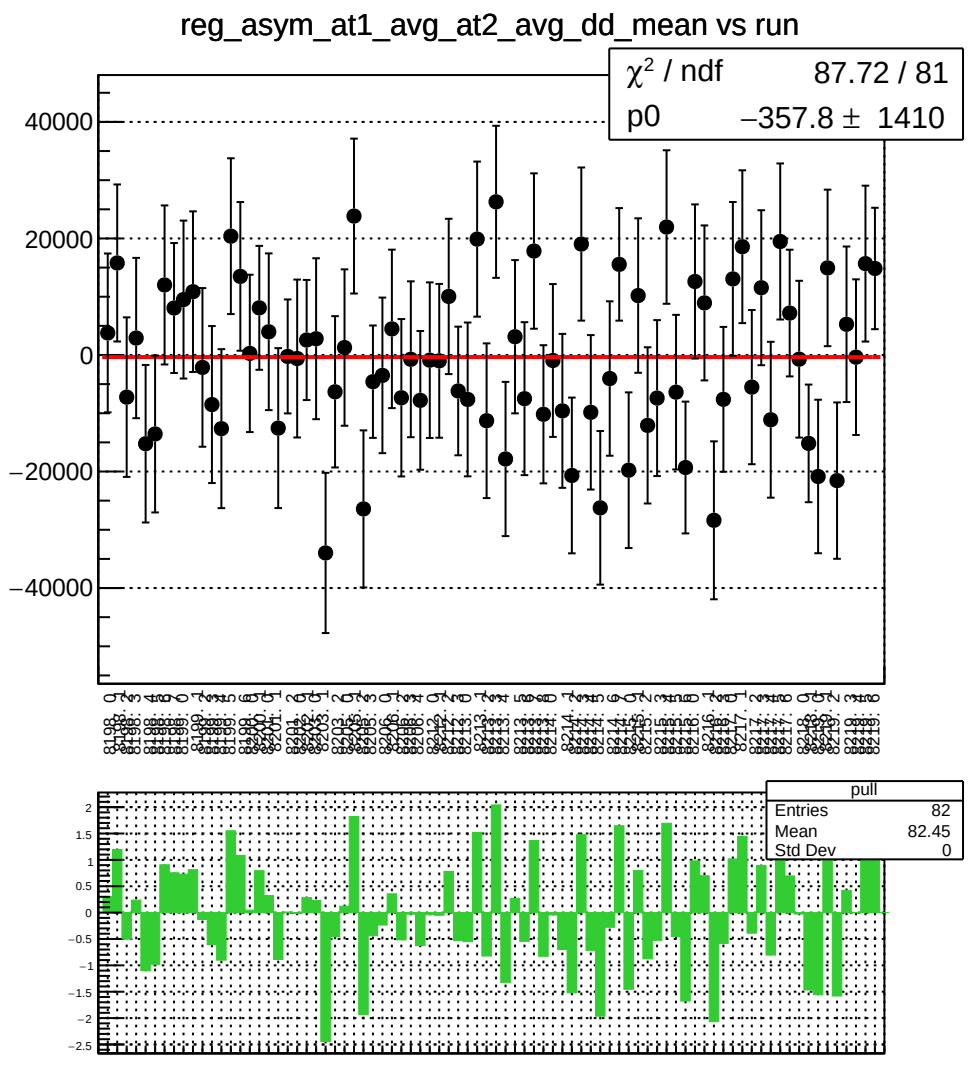

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.547e+05 / 81
p0 30.4 ± 0.02601
90
80
70
60
50
40
30
20
10

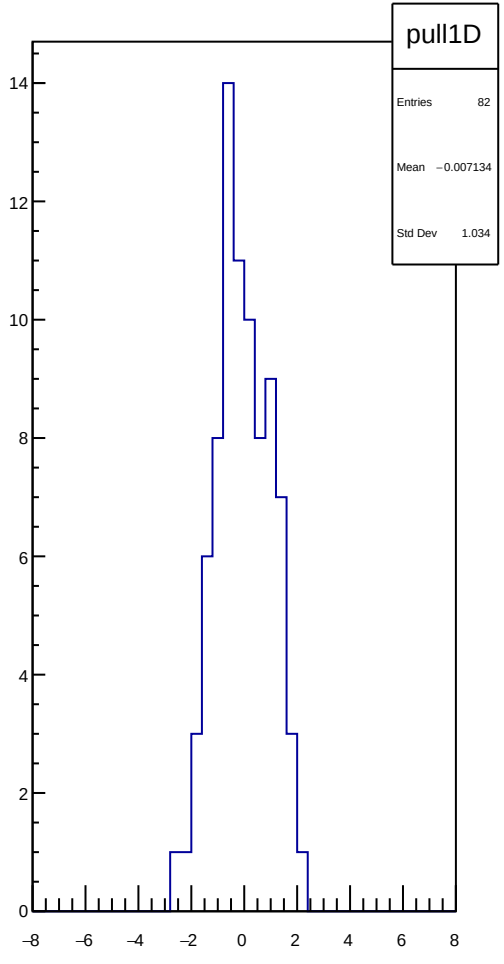

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 81
p0 −0.02211 ± 0.03678
pull
Entries 82
Mean 64.24
Std Dev 11.33
pull1D
Entries 82
Mean 0.06537
Std Dev 1.113

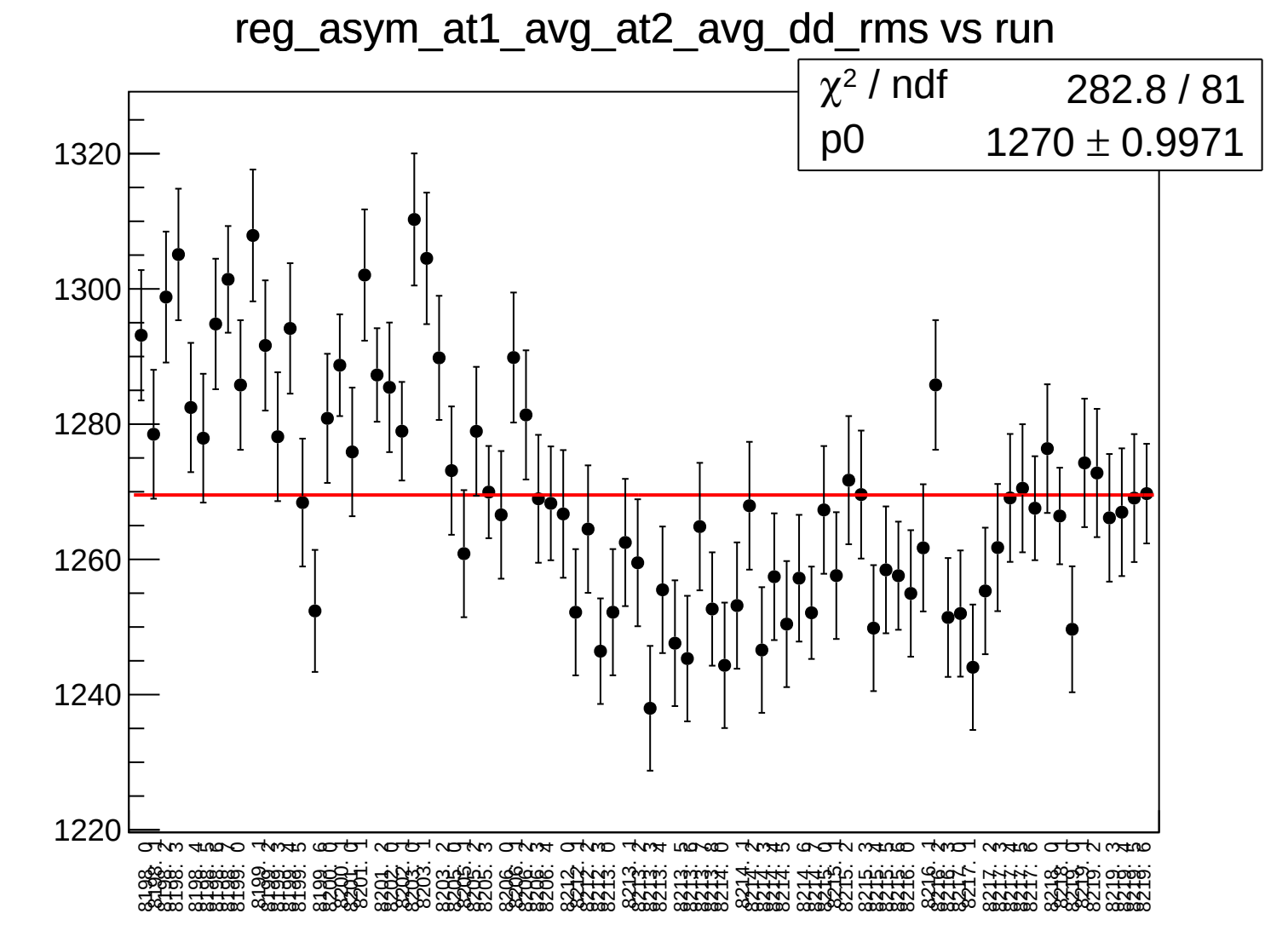

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.547e+05 / 81
p0 30.4 ± 0.02601
90
80
70
60
50
40
30
20
10

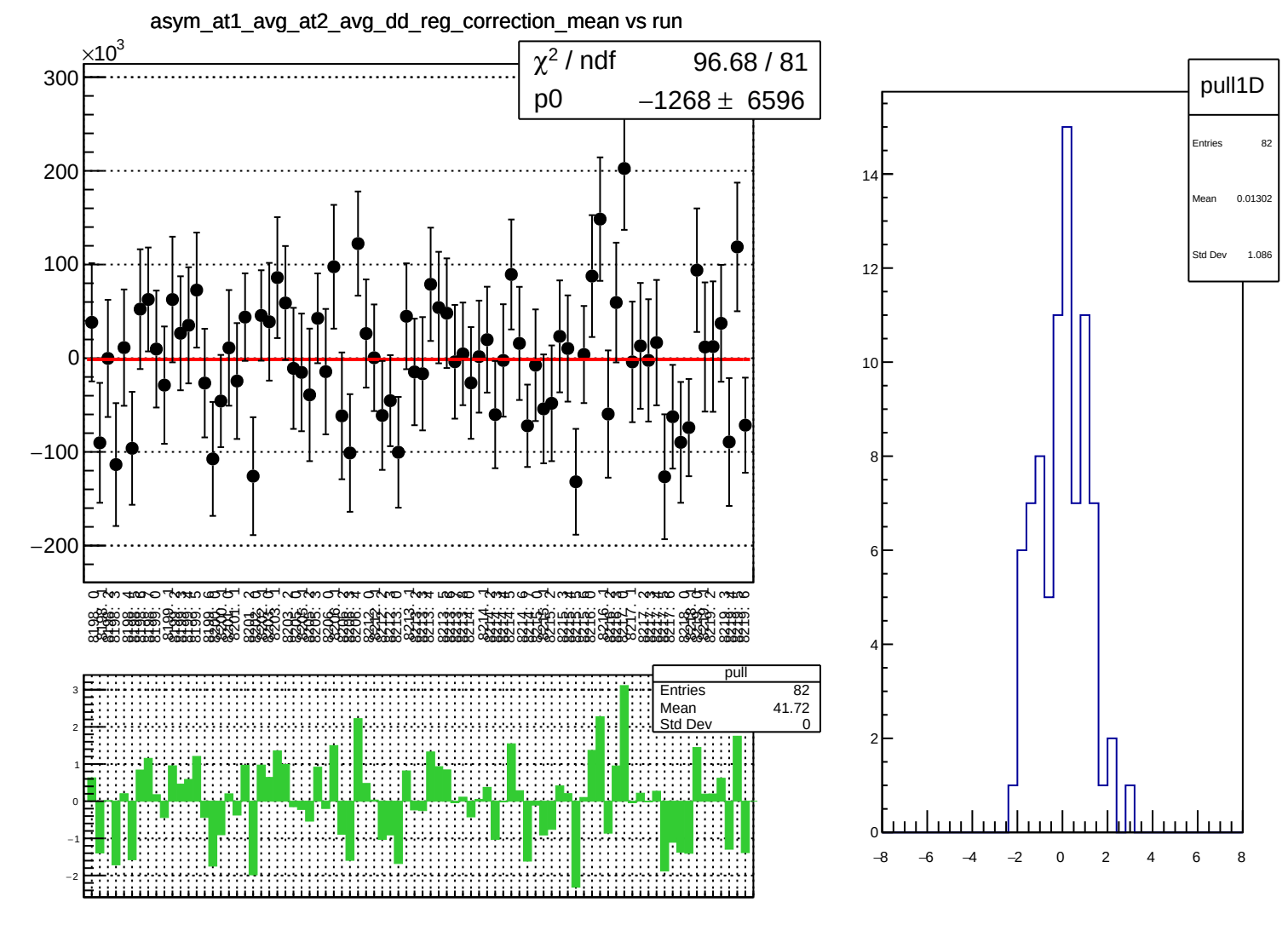

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.78 / 81
p0 6.514e−14 ± 6.752e−14
pull
Entries 82
Mean 53.54
Std Dev 34.16
pull1D
Entries 82
Mean 0.102
Std Dev 0.8405

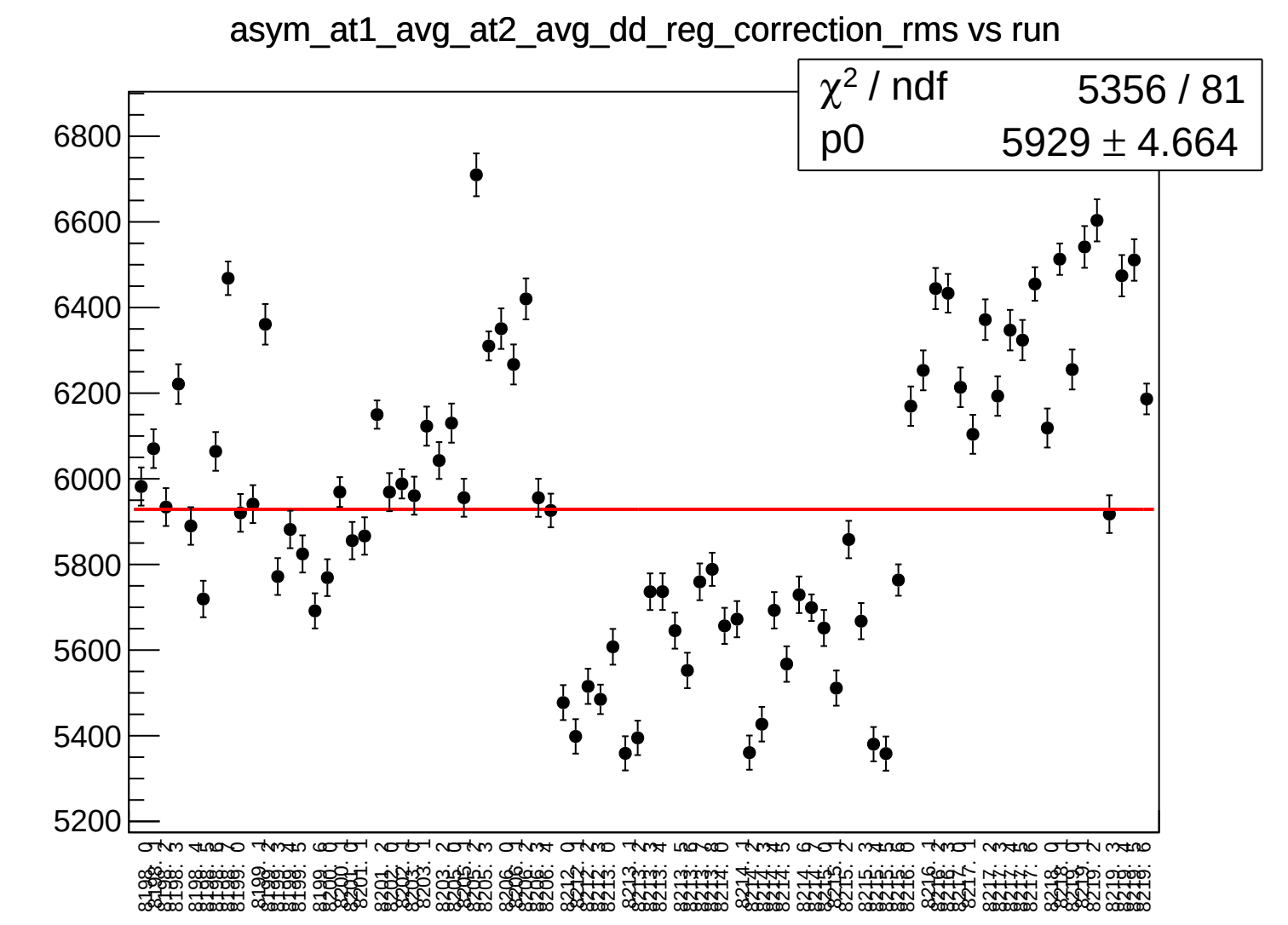

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.2e+05 / 81
p0 4.777e−11 ± 4.774e−14
0.3
0.25
0.2
0.15
0.1
0.05

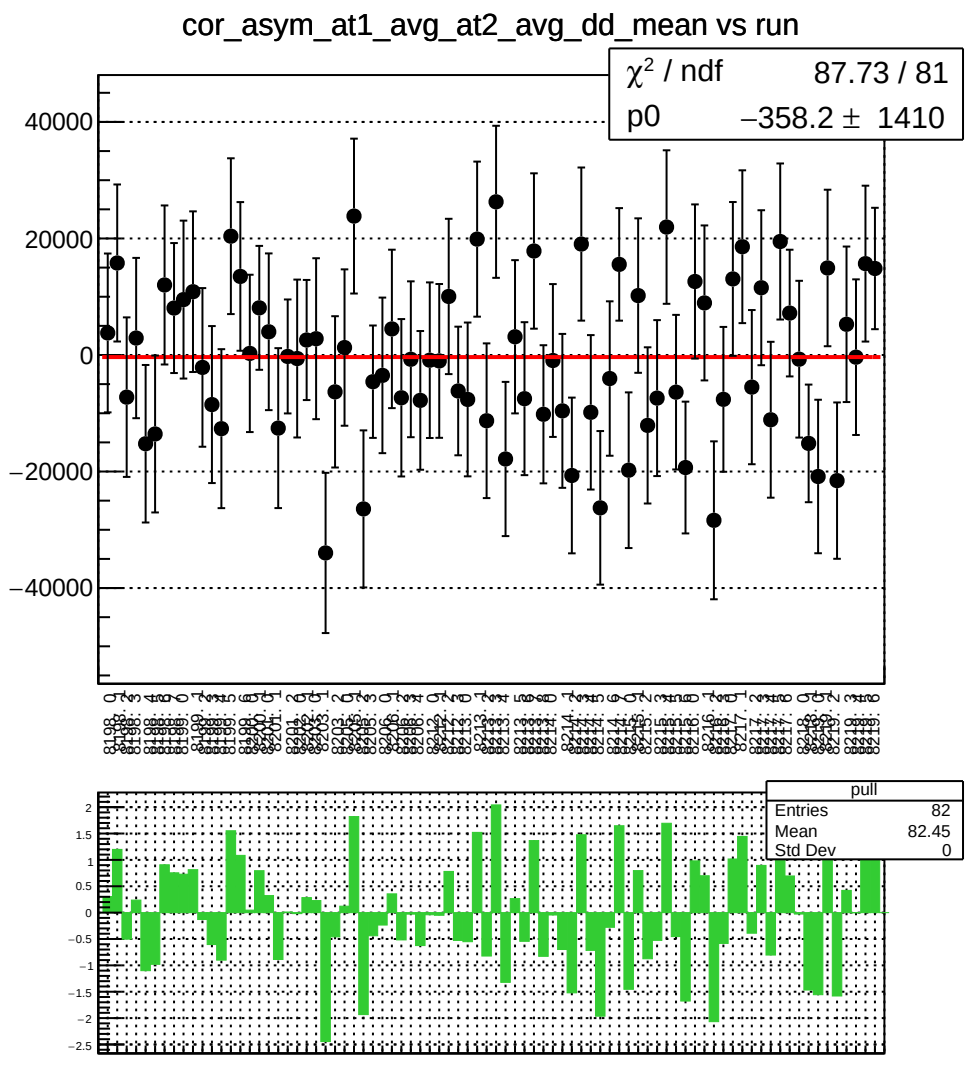

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 87.72 / 81
p0 −357.8 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 82.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

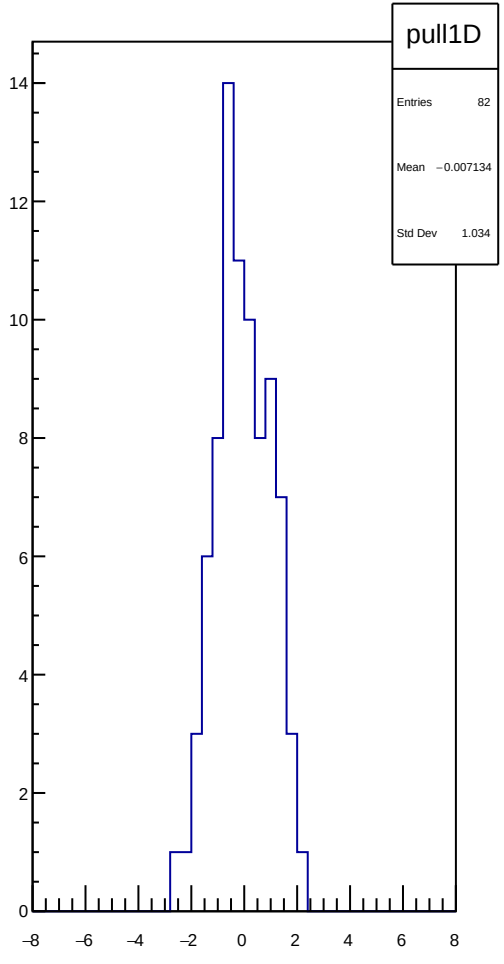

pull1D
Entries 82
Mean −0.007134
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

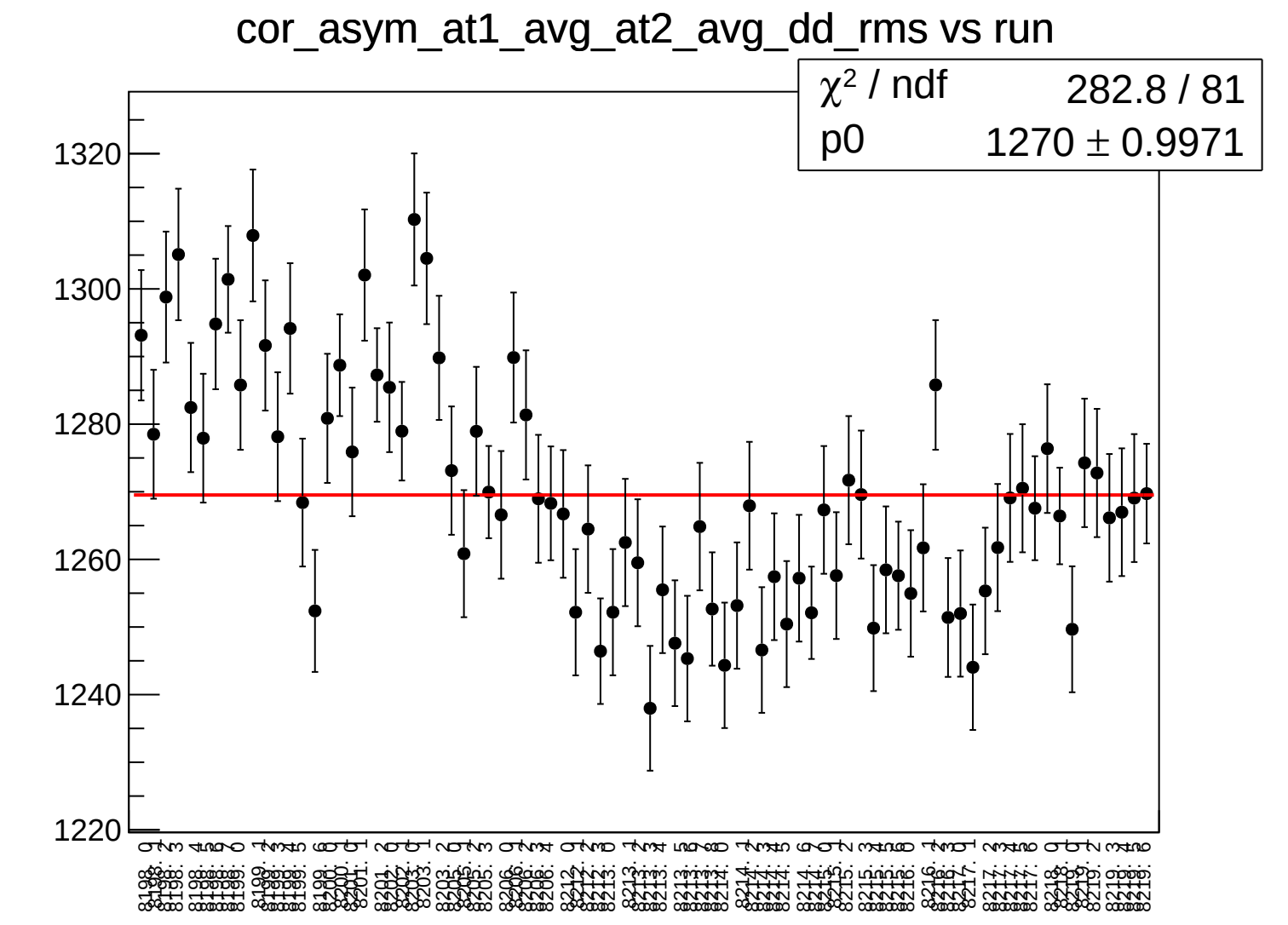

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 282.8 / 81
p0 1270 ± 0.9971
1320
1300
1280
1260
1240
1220

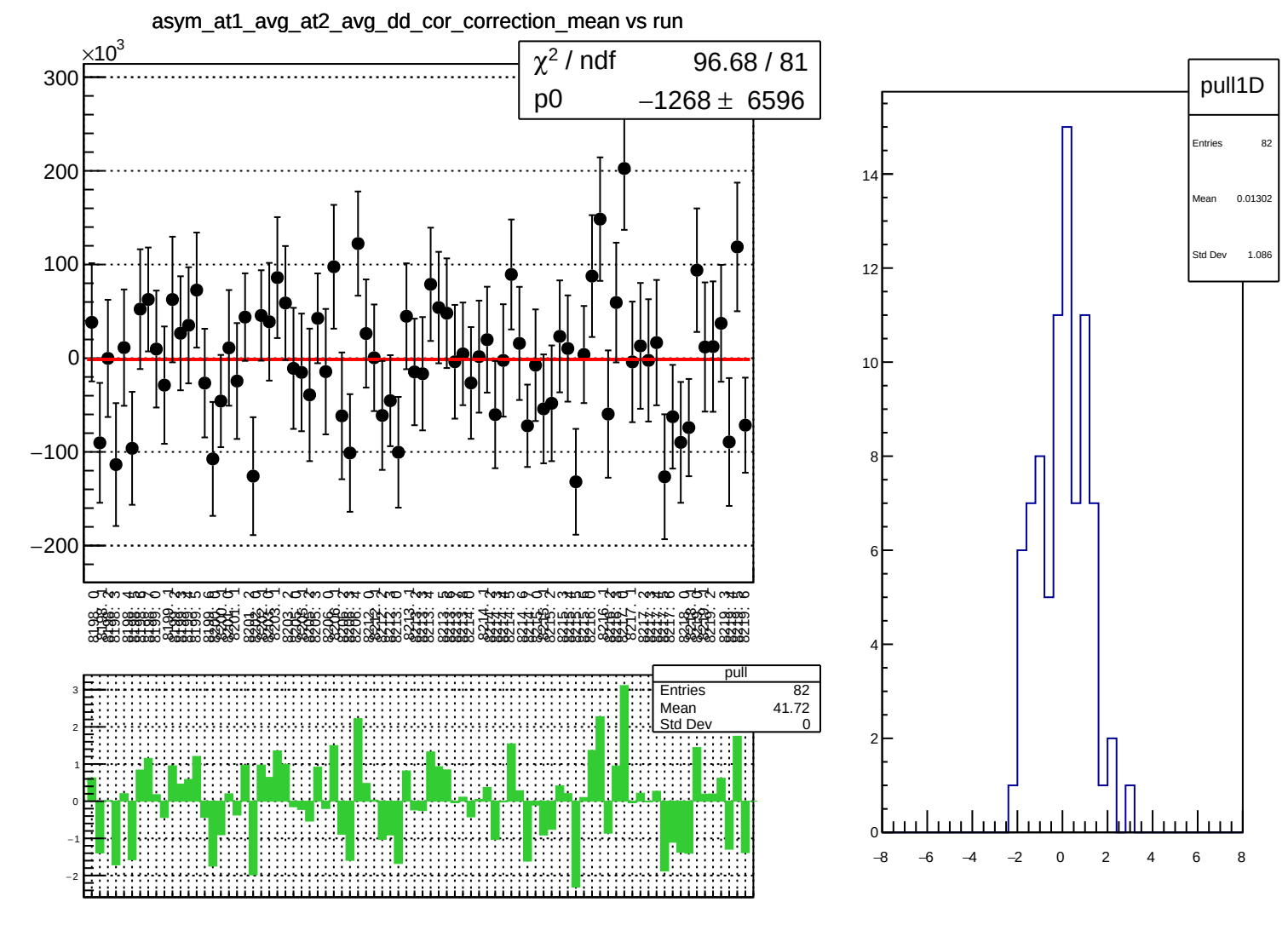

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.68 / 81
p0 −1268 ± 6596
pull
Entries 82
Mean 41.72
Std Dev 0
pull1D
Entries 82
Mean 0.01302
Std Dev 1.086

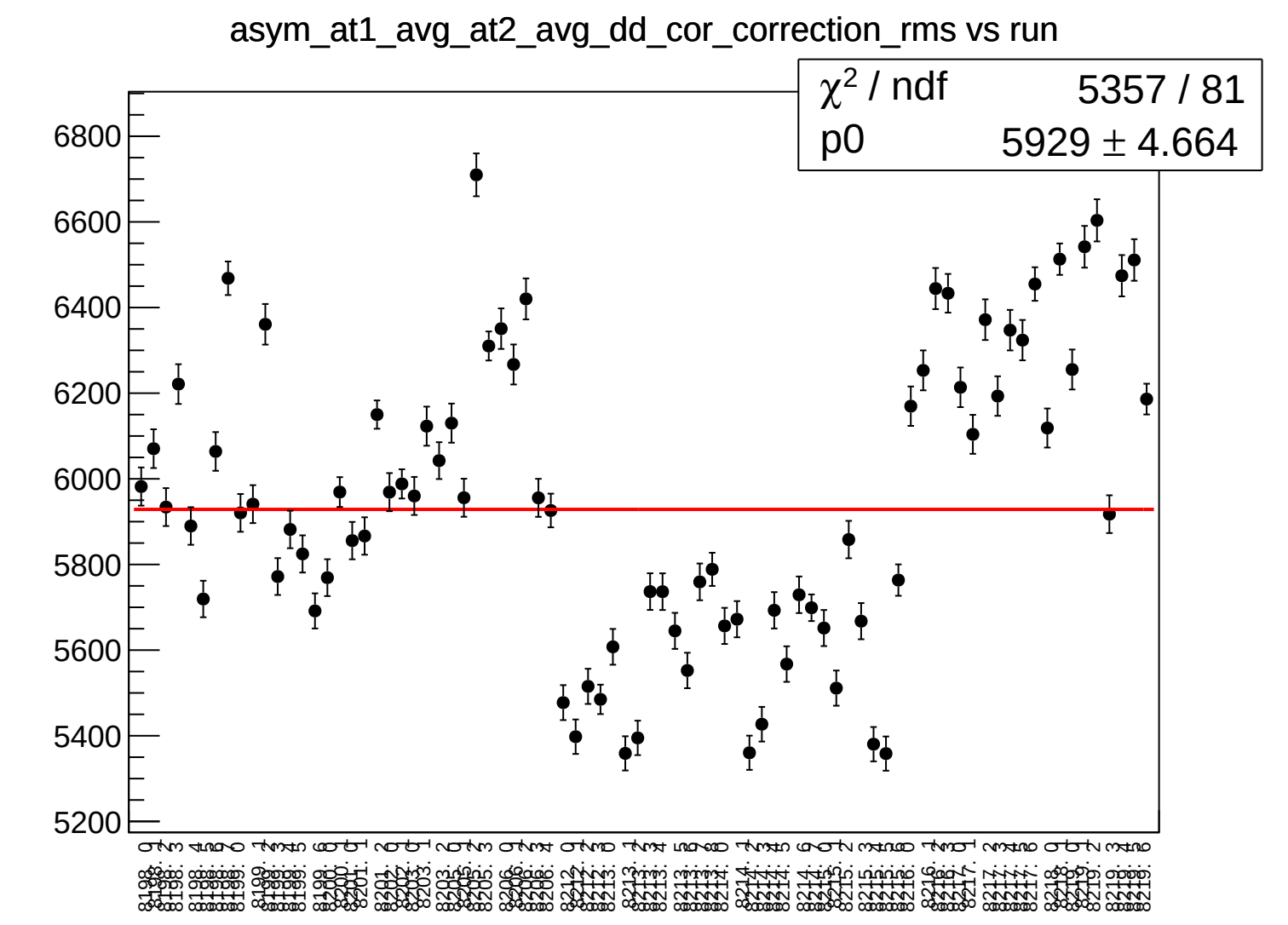

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 5356 / 81
p0 5929 ± 4.664
6800
6600
6400
6200
6000
5800
5600
5400
5200

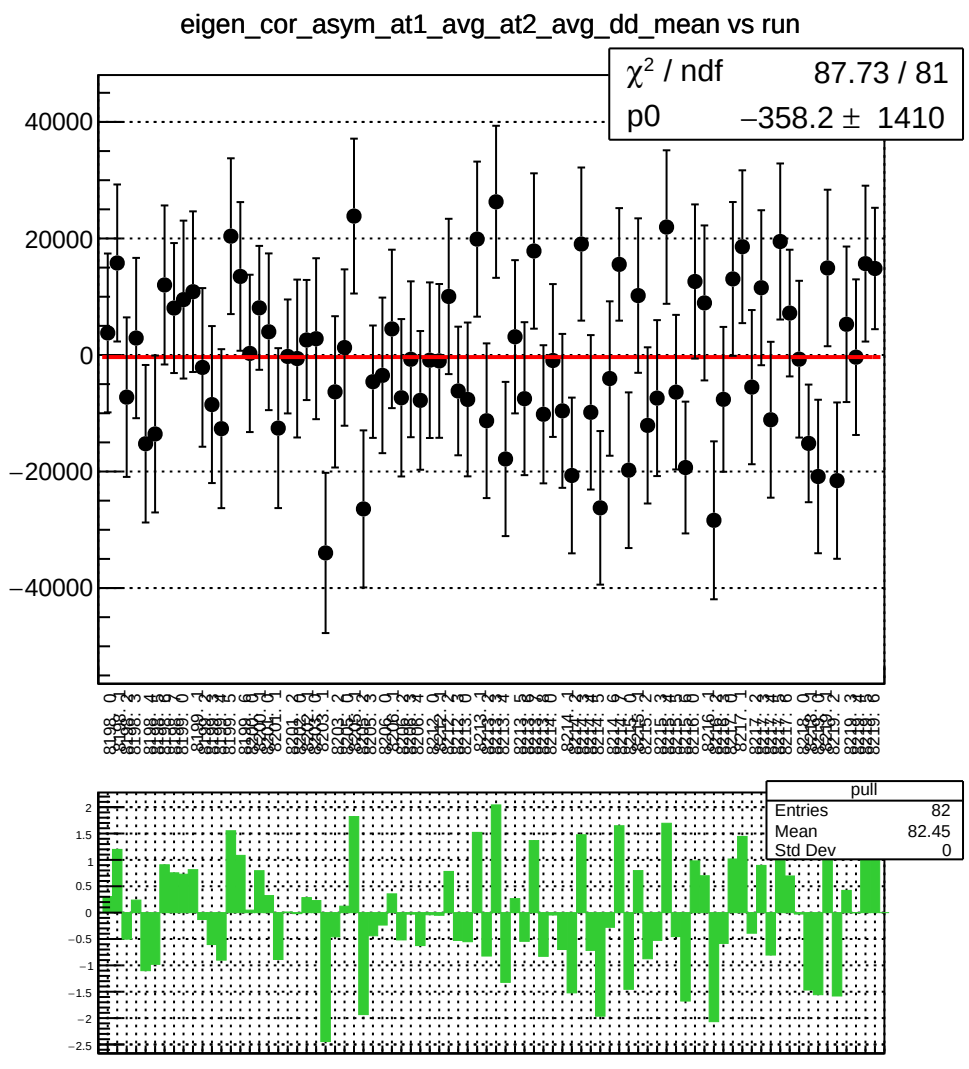

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 87.73 / 81
p0 −358.2 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 82.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

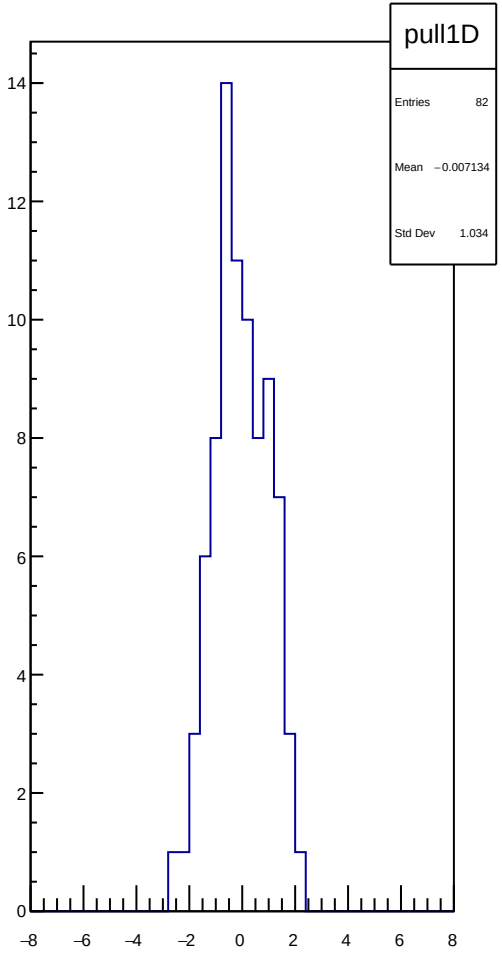

pull1D
Entries 82
Mean −0.007134
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

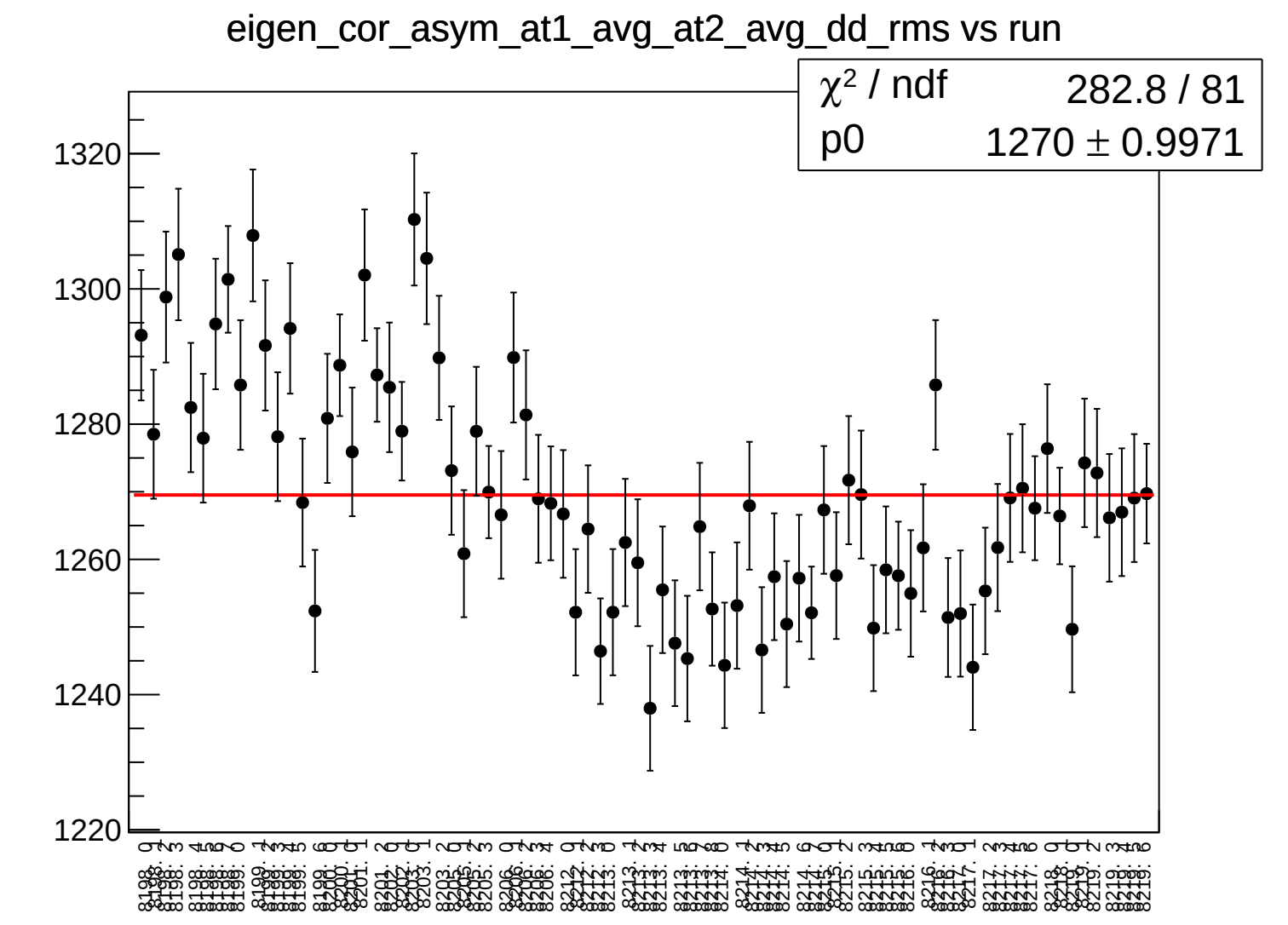

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 282.8 / 81
p0 1270 ± 0.9971
1320
1300
1280
1260
1240
1220

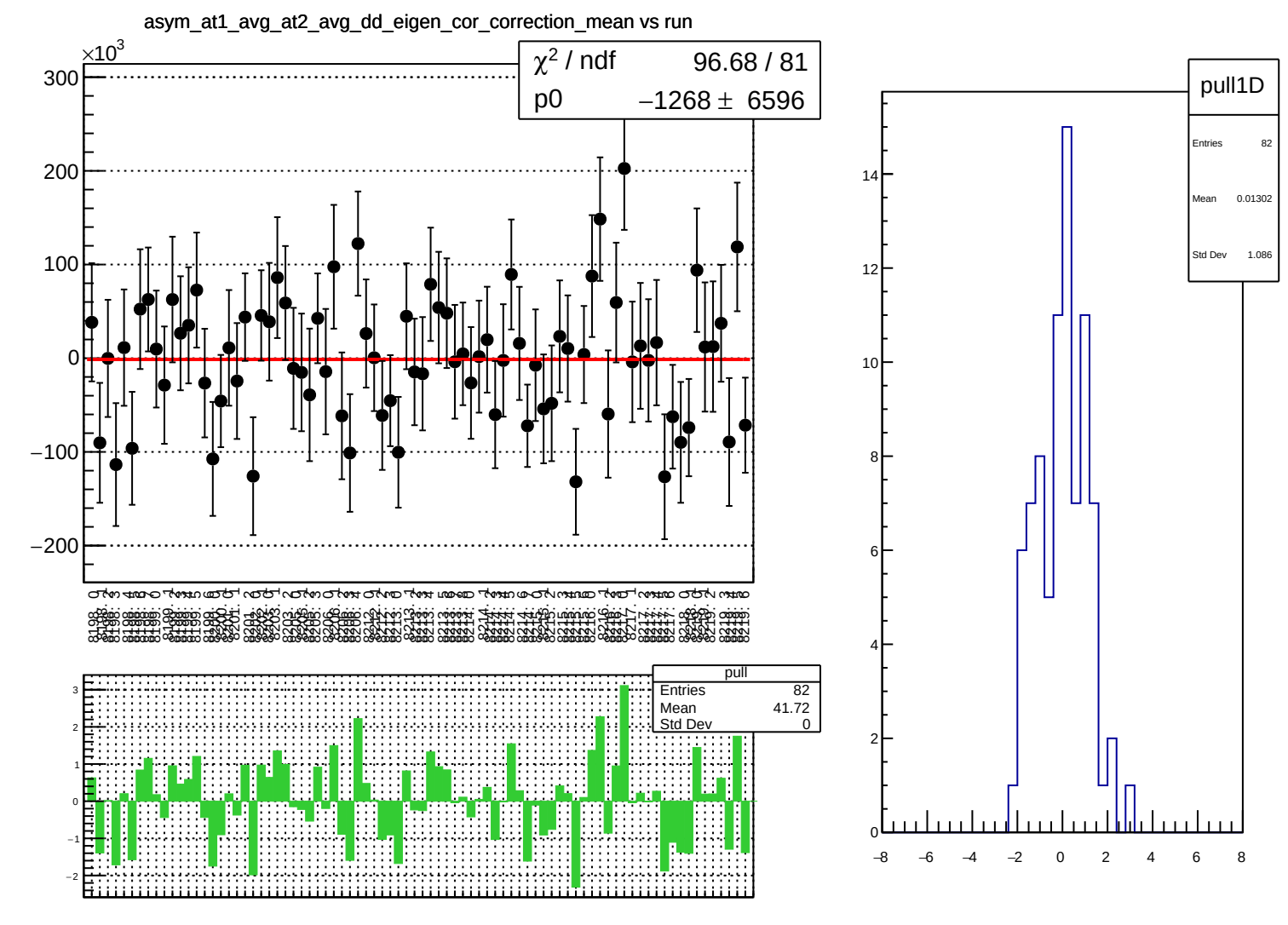

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.68 / 81
p0 −1268 ± 6596
pull
Entries 82
Mean 41.72
Std Dev 0
pull1D
Entries 82
Mean 0.01302
Std Dev 1.086

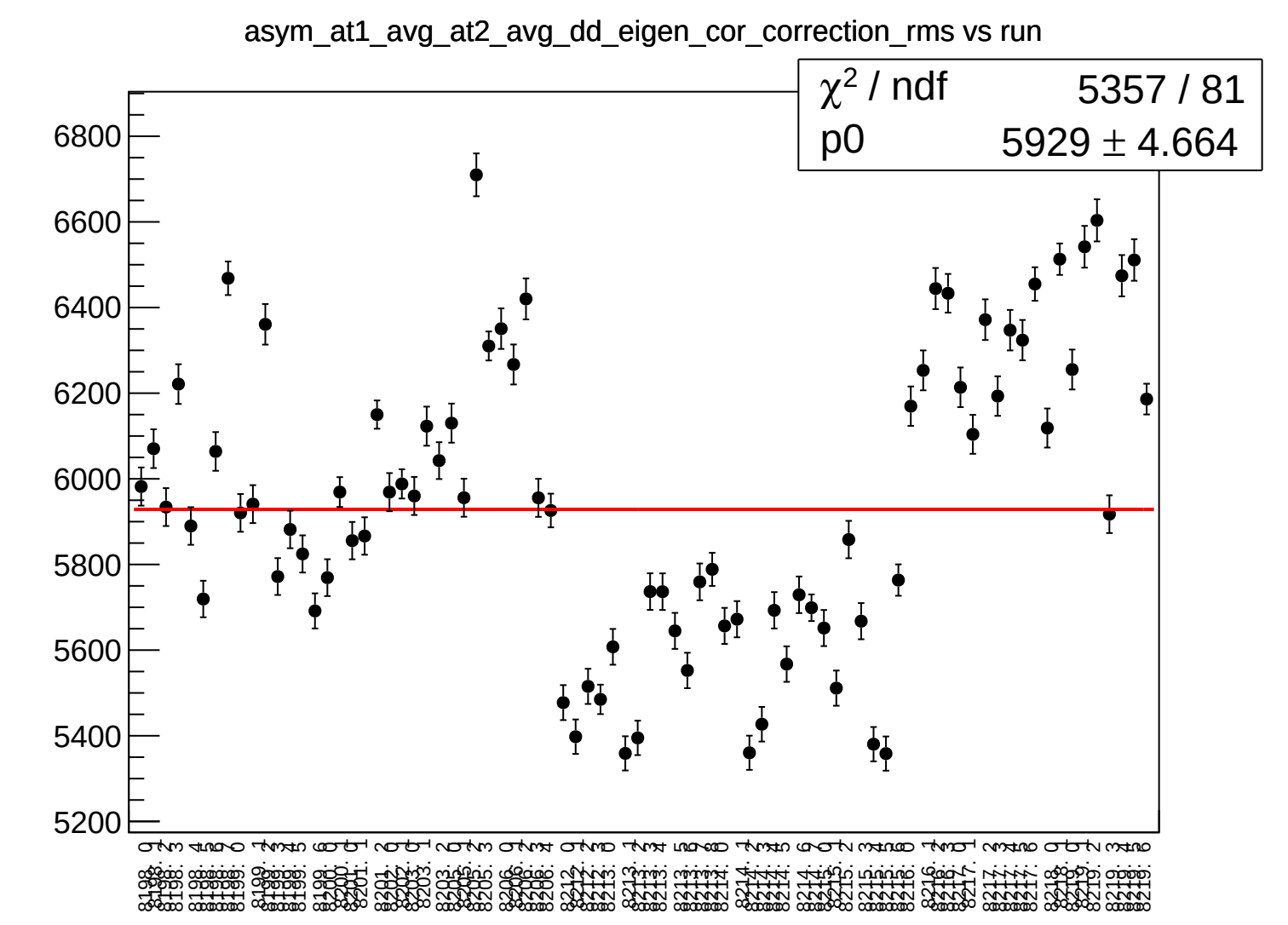

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 5357 / 81
p0 5929 ± 4.664
6800
6600
6400
6200
6000
5800
5600
5400
5200

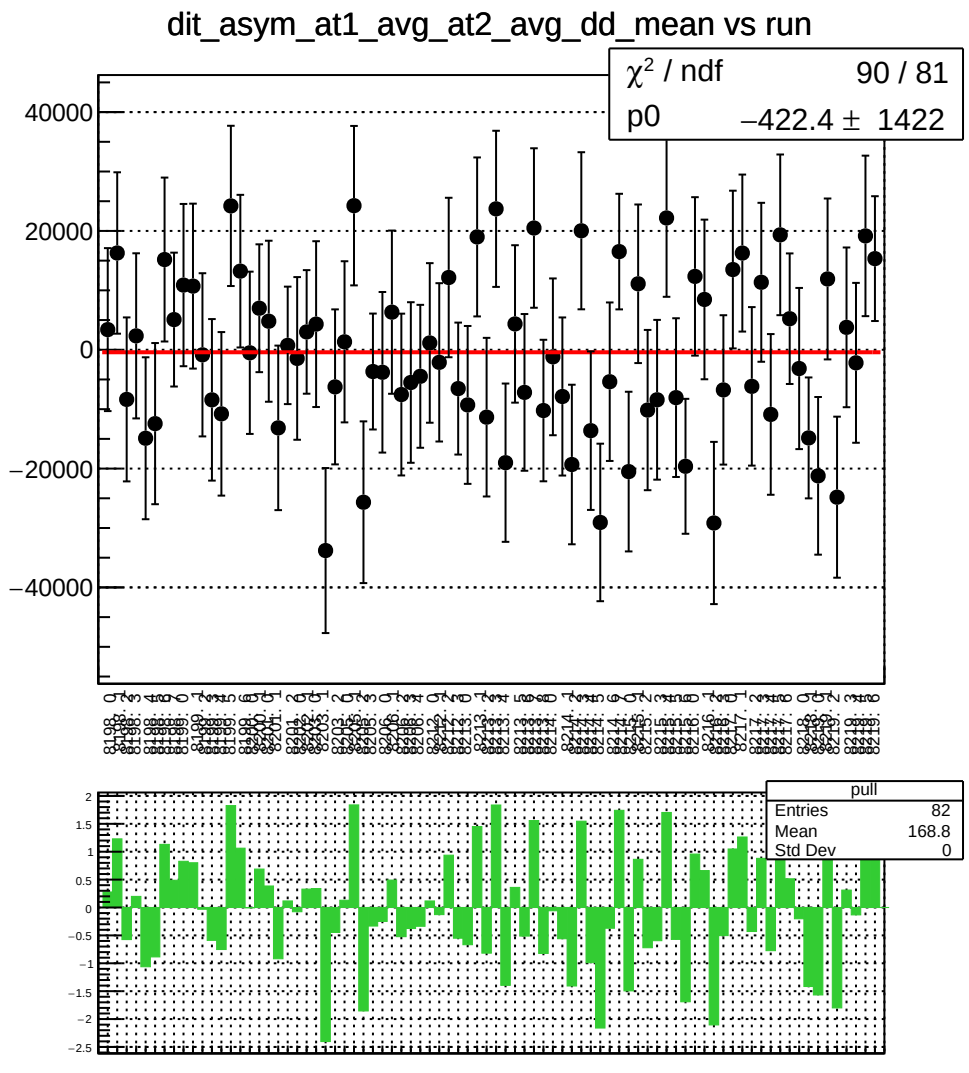

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 87.73 / 81
p0 −358.2 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 82.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

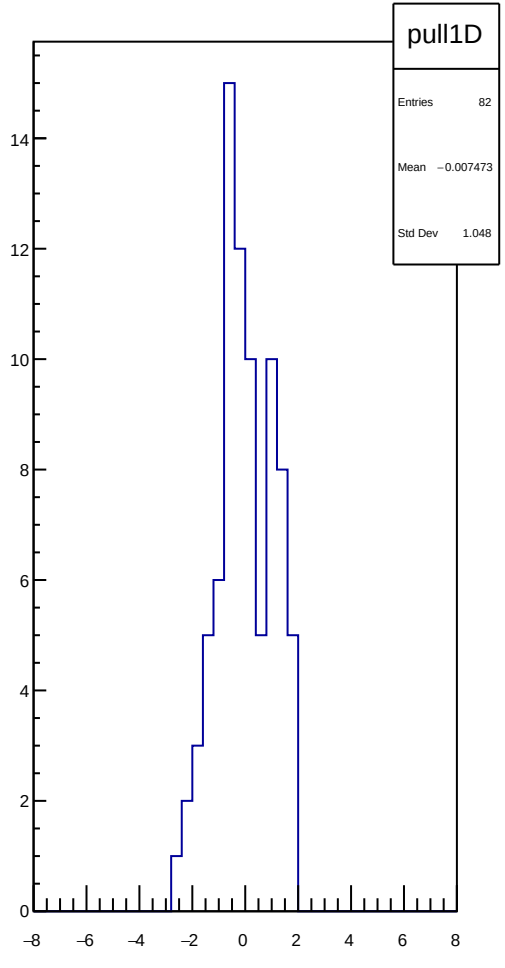

pull1D
Entries 82
Mean −0.007134
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

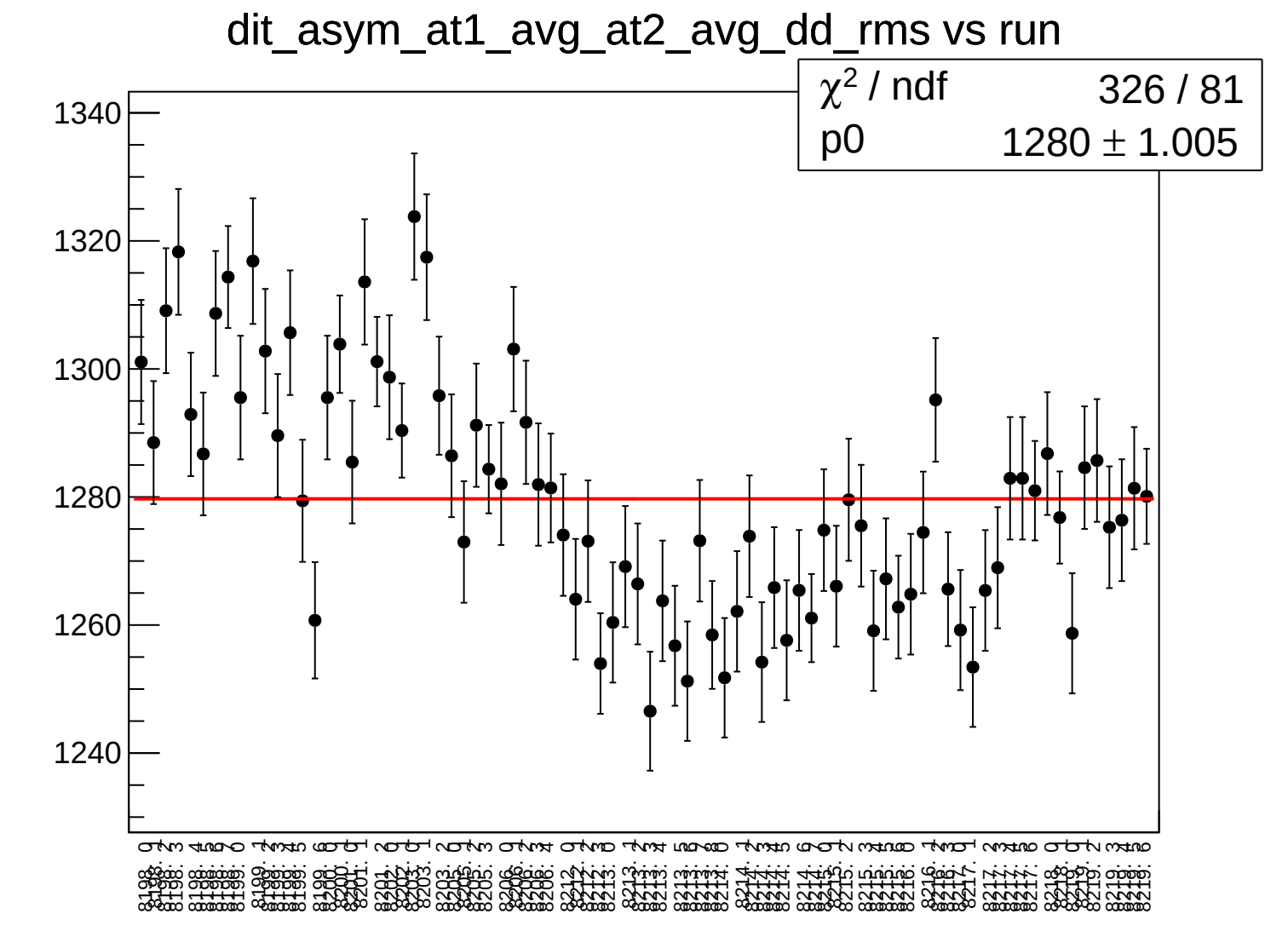

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 282.8 / 81
p0 1270 ± 0.9971
1320
1300
1280
1260
1240
1220

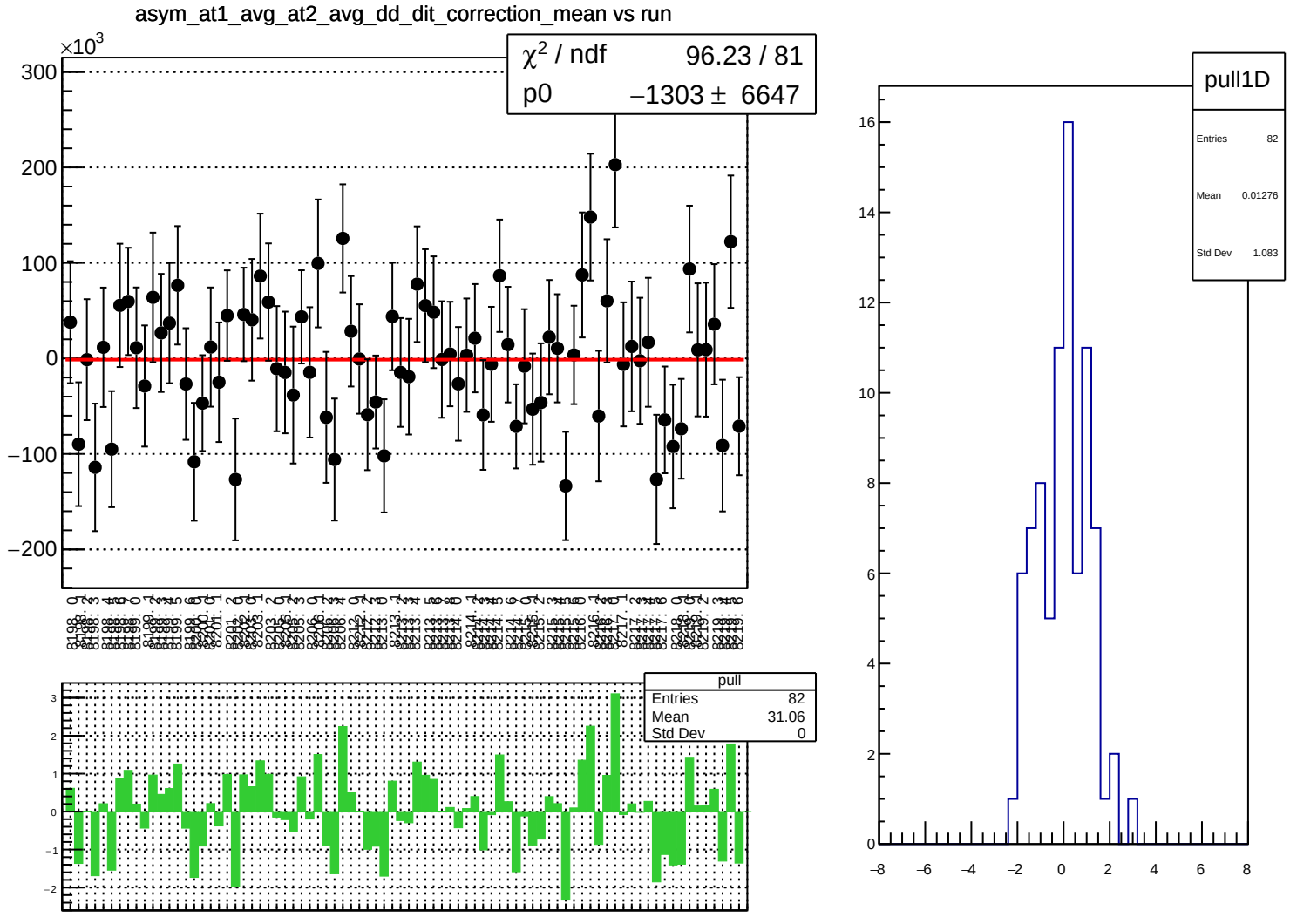

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.68 / 81
p0 −1268 ± 6596
pull
Entries 82
Mean 41.72
Std Dev 0
pull1D
Entries 82
Mean 0.01302
Std Dev 1.086

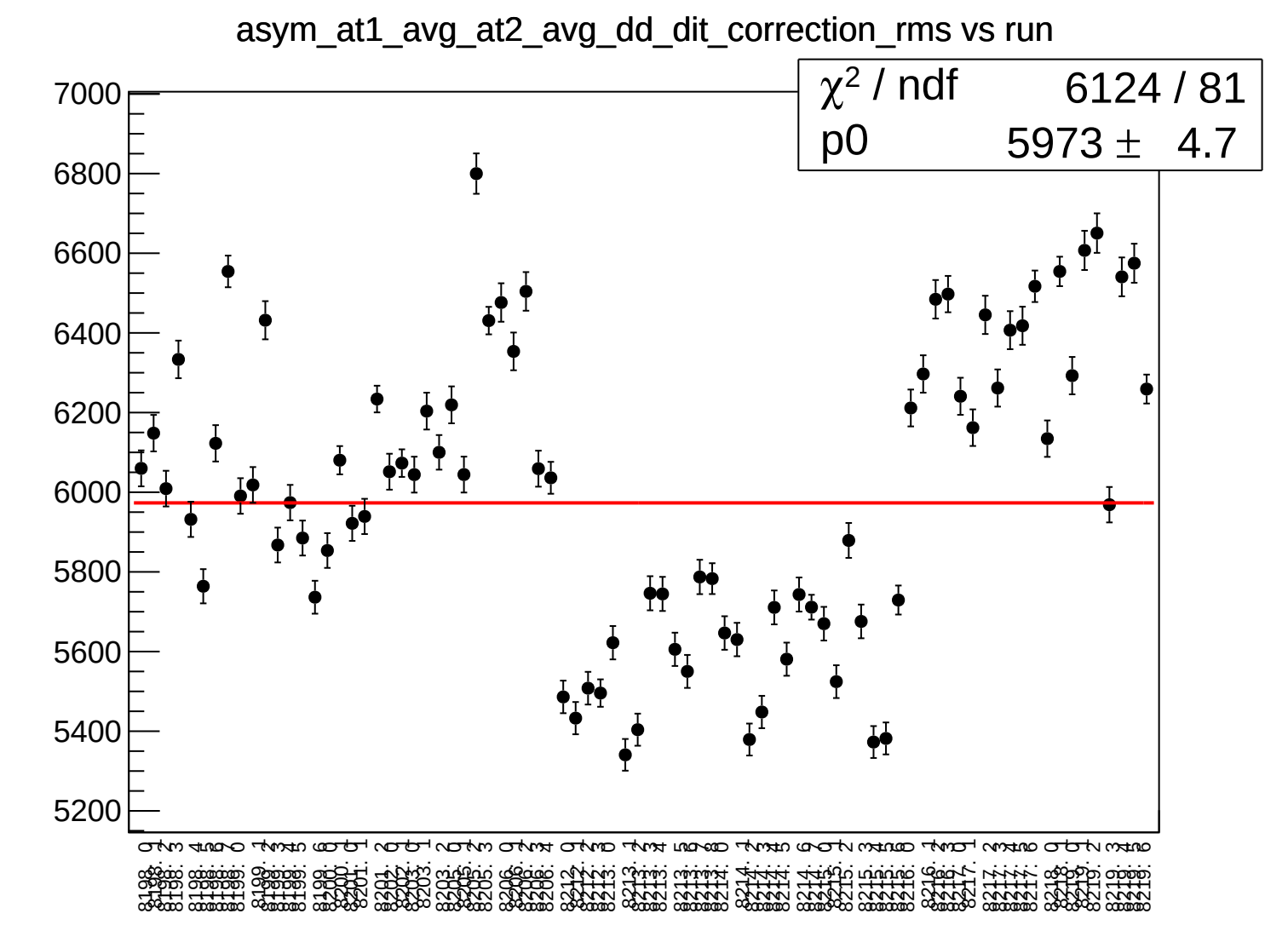

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5357 / 81
p0 5929 ± 4.664
6800
6600
6400
6200
6000
5800
5600
5400
5200

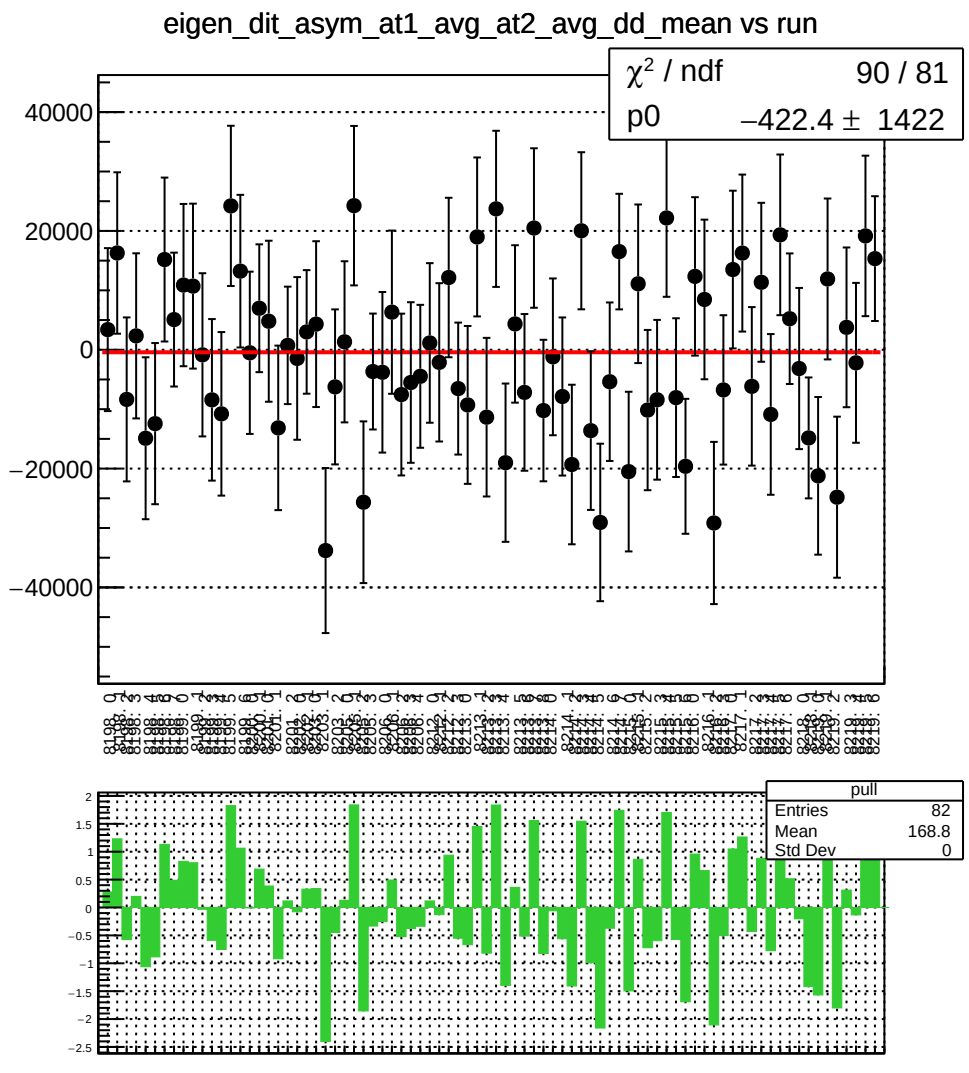

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 90 / 81
p0 −422.4 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 168.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

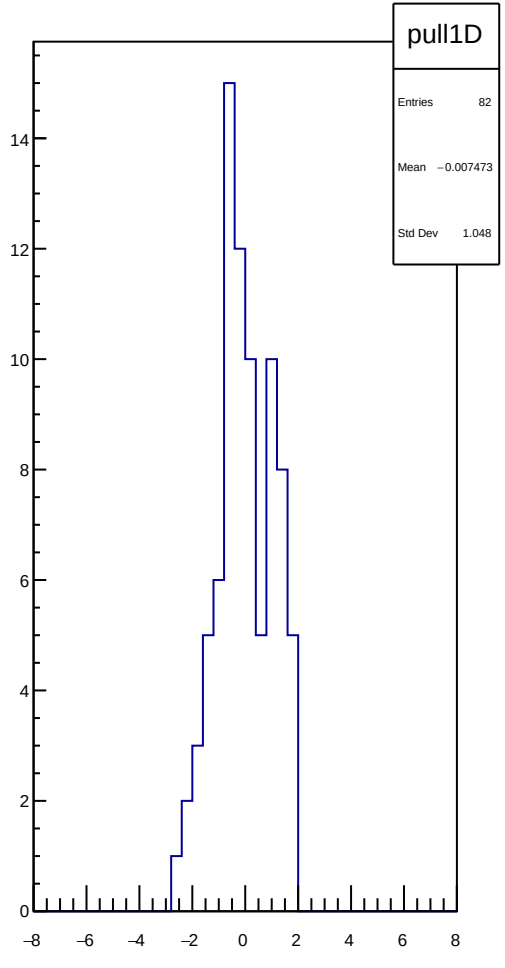

pull1D
Entries 82
Mean −0.007473
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

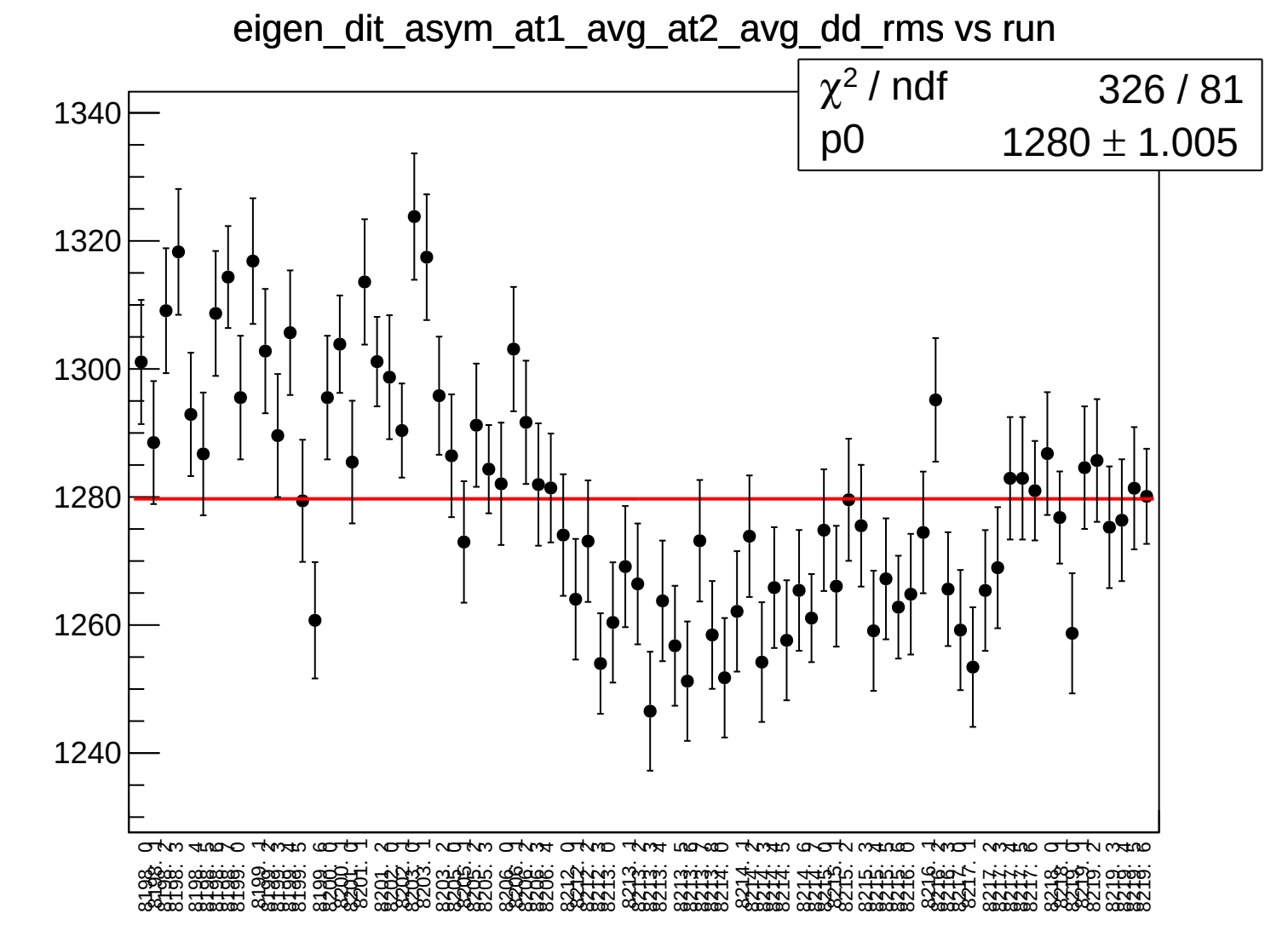

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 326 / 81
p0 1280 ± 1.005
1340
1320
1300
1280
1260
1240

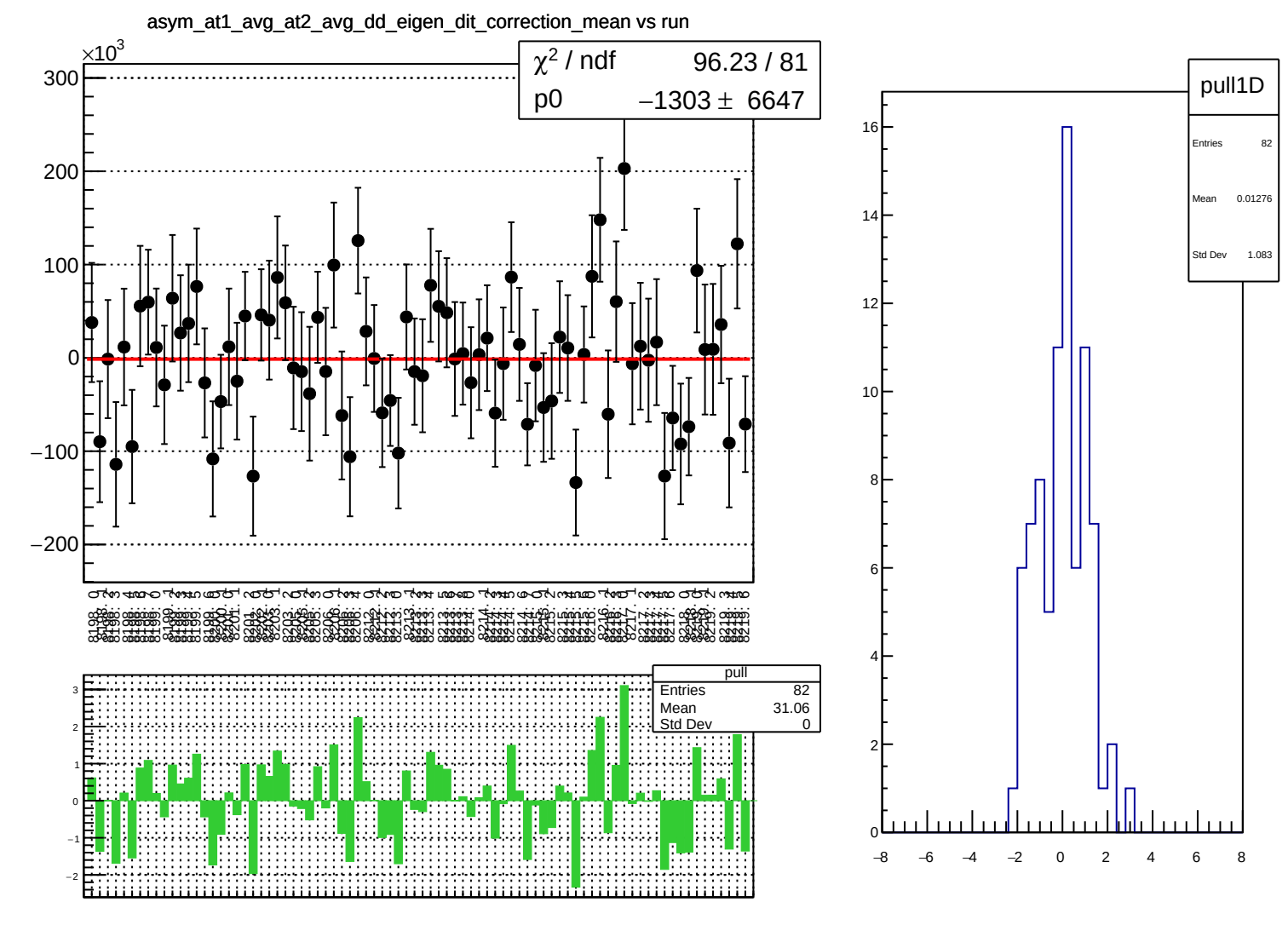

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.23 / 81
p0 −1303 ± 6647
300
200
100
0
−100
−200
pull
Entries 82
Mean 31.06
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01276
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

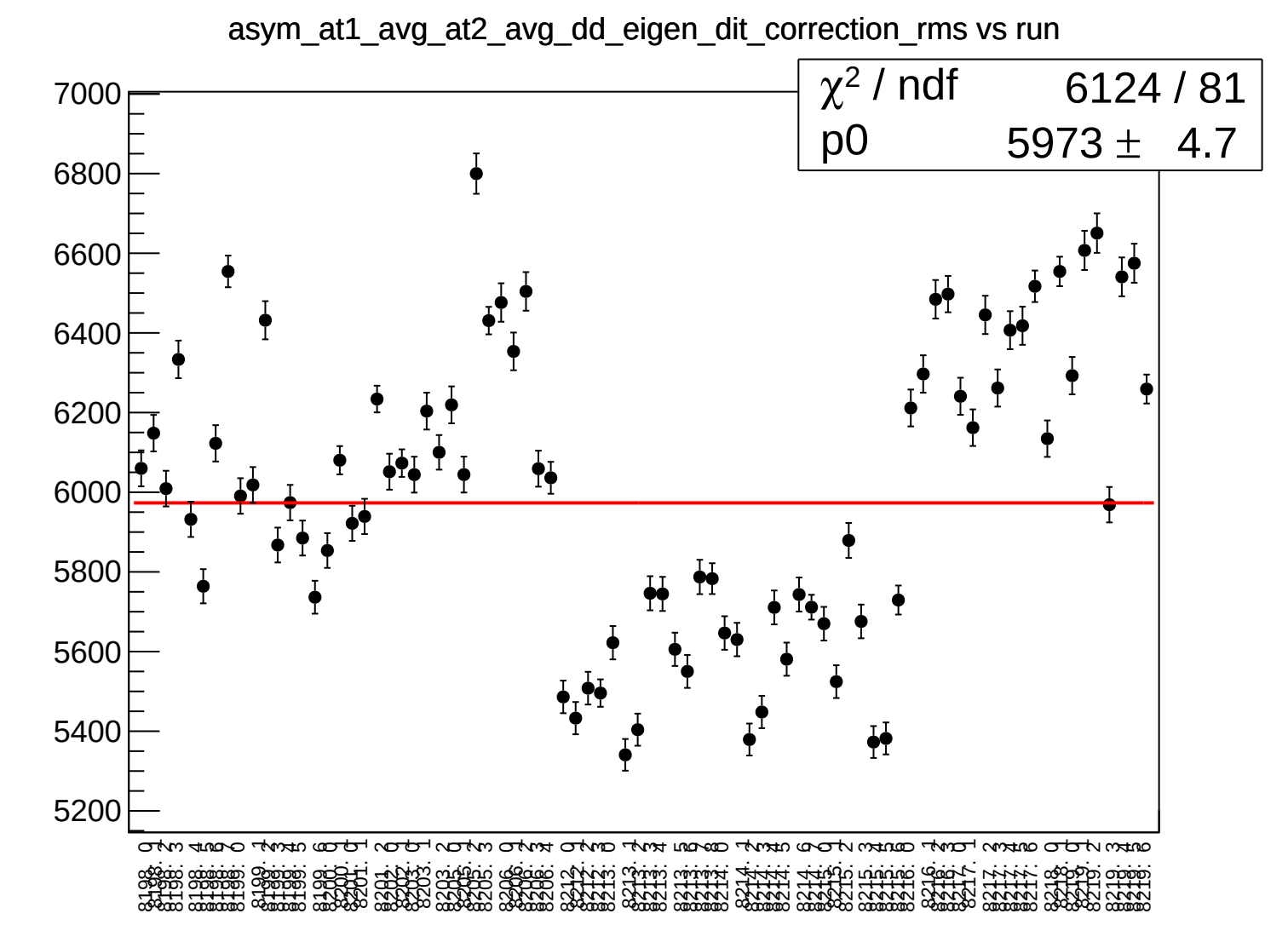

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 6124 / 81
p0 5973 ± 4.7
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

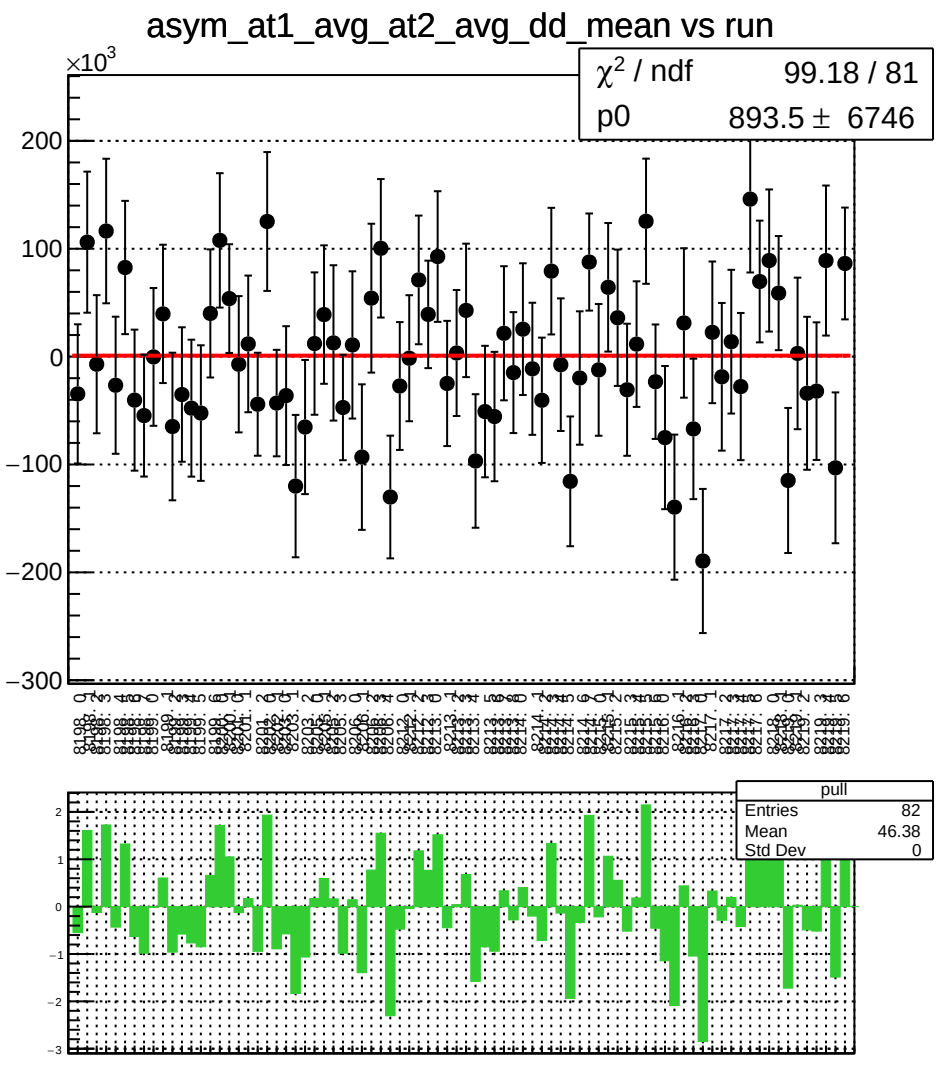

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 90 / 81
p0 −422.4 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 168.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

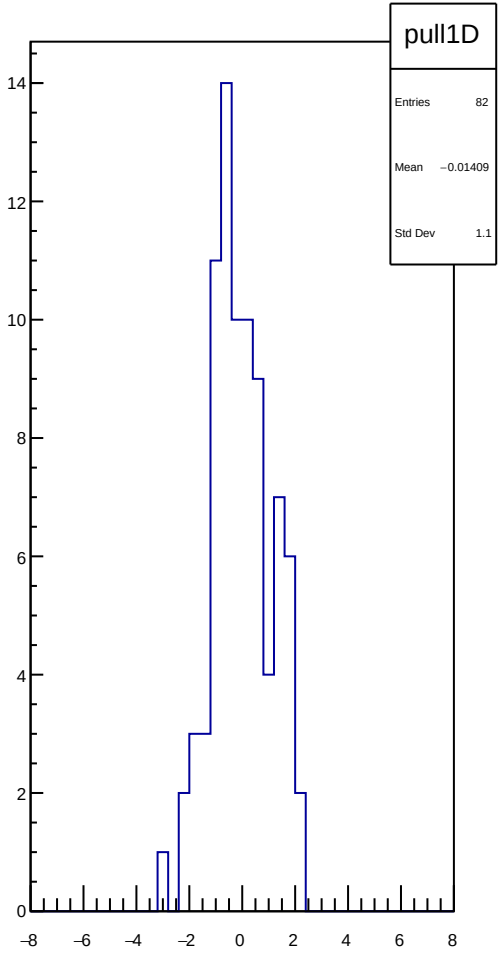

pull1D
Entries 82
Mean −0.007473
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

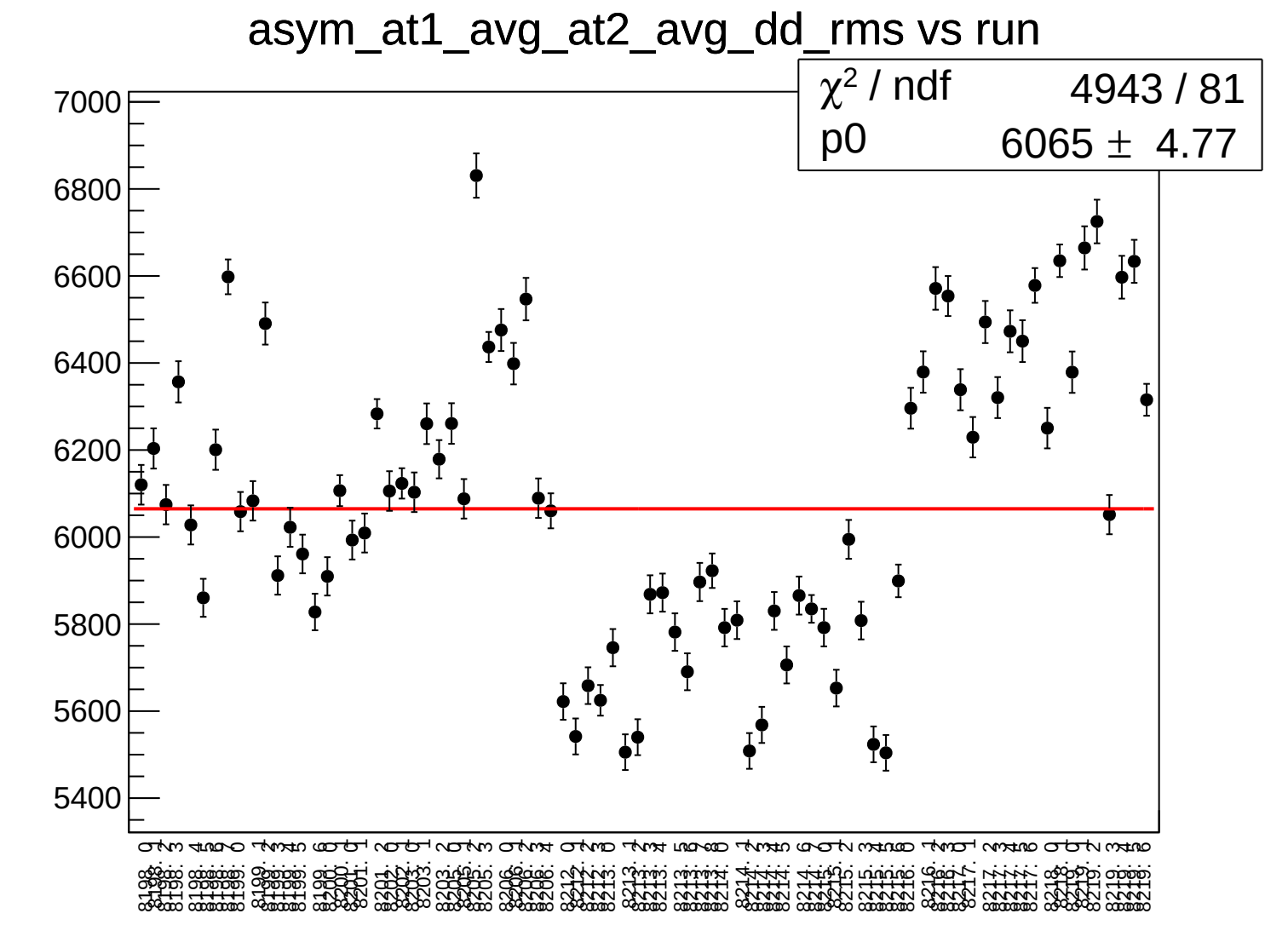

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 326 / 81
p0 1280 ± 1.005
1340
1320
1300
1280
1260
1240

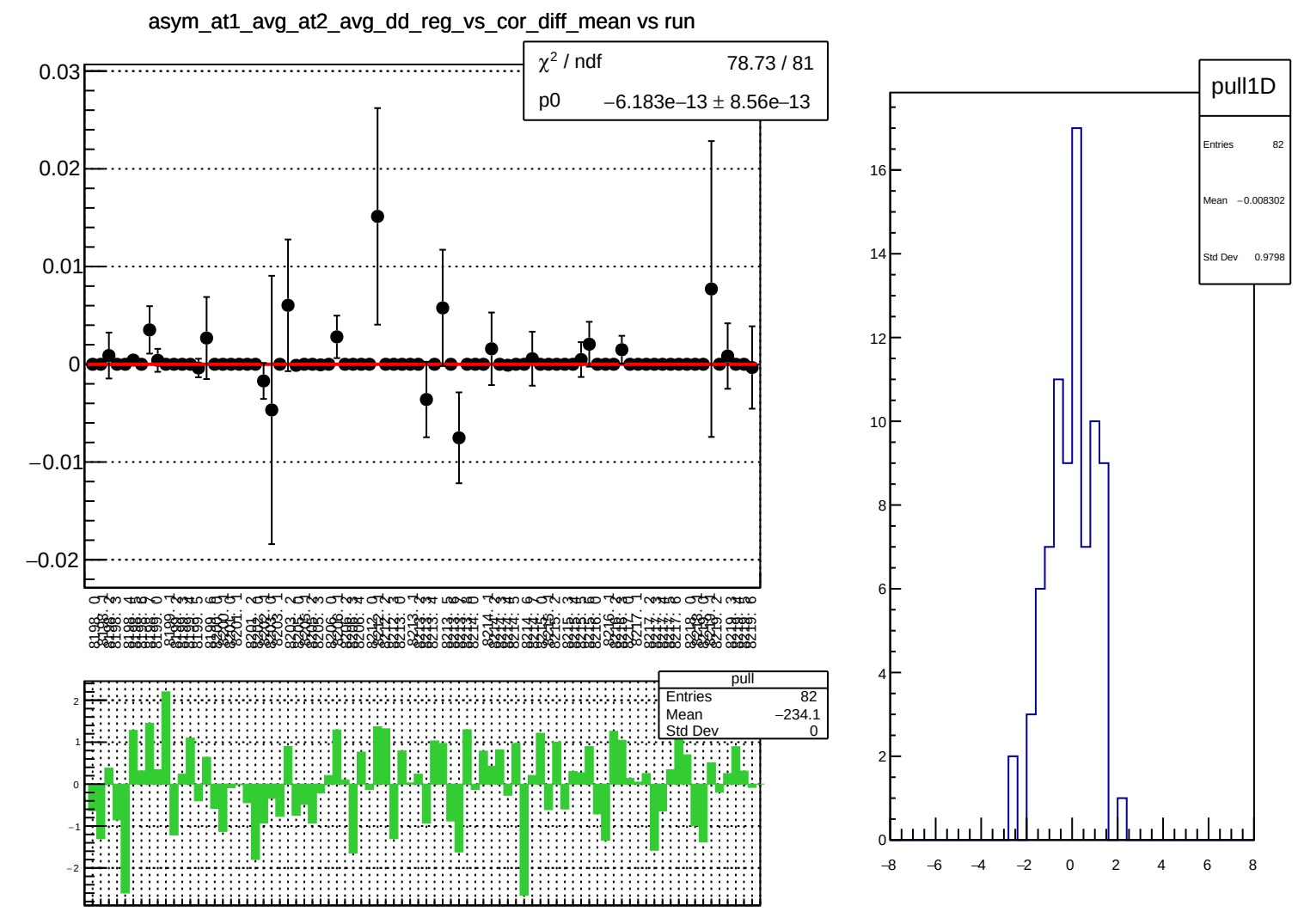

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.23 / 81
p0 −1303 ± 6647
pull
Entries 82
Mean 31.06
Std Dev 0
pull1D
Entries 82
Mean 0.01276
Std Dev 1.083

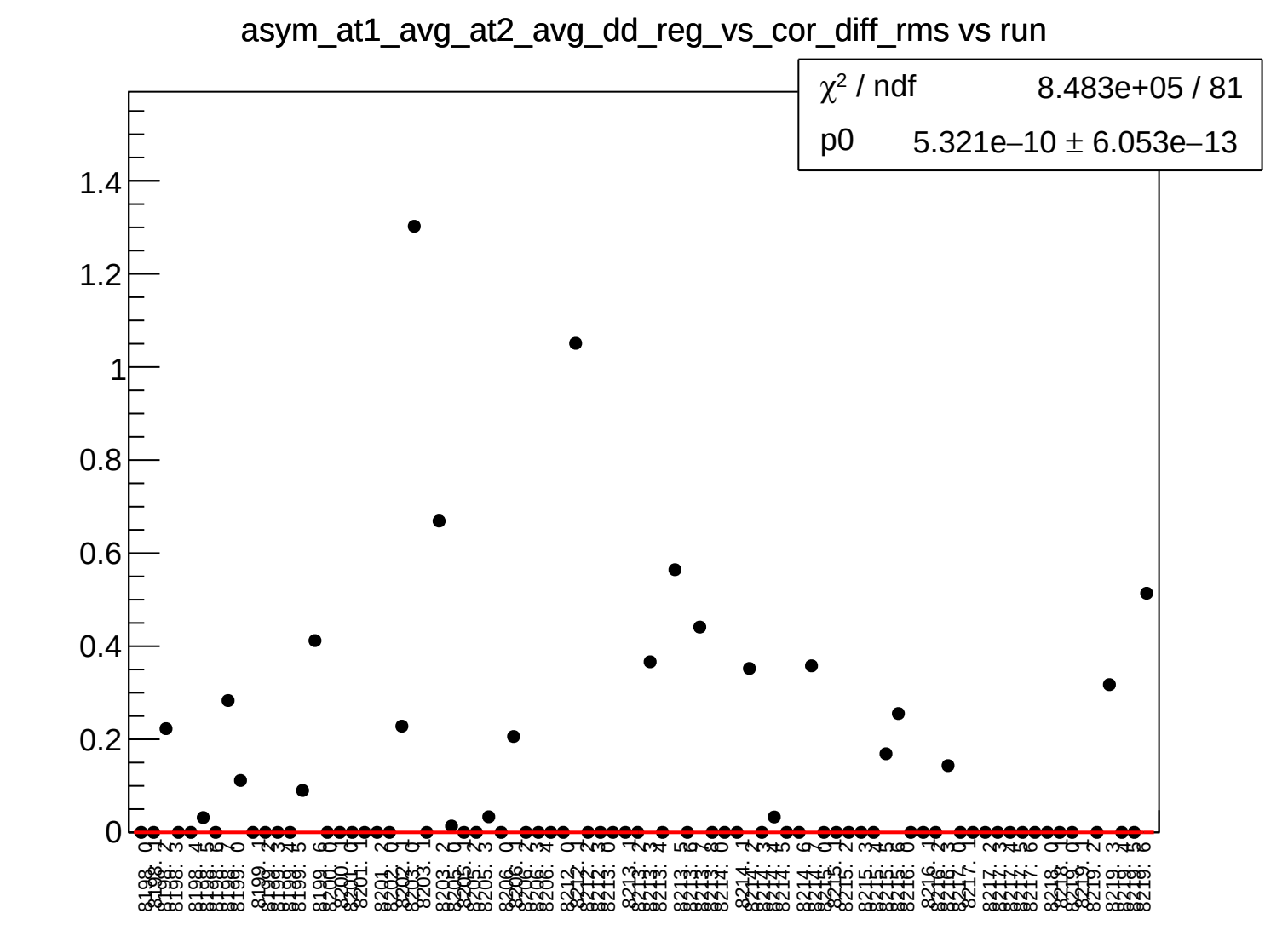

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6124 / 81
p0 5973 ± 4.7
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

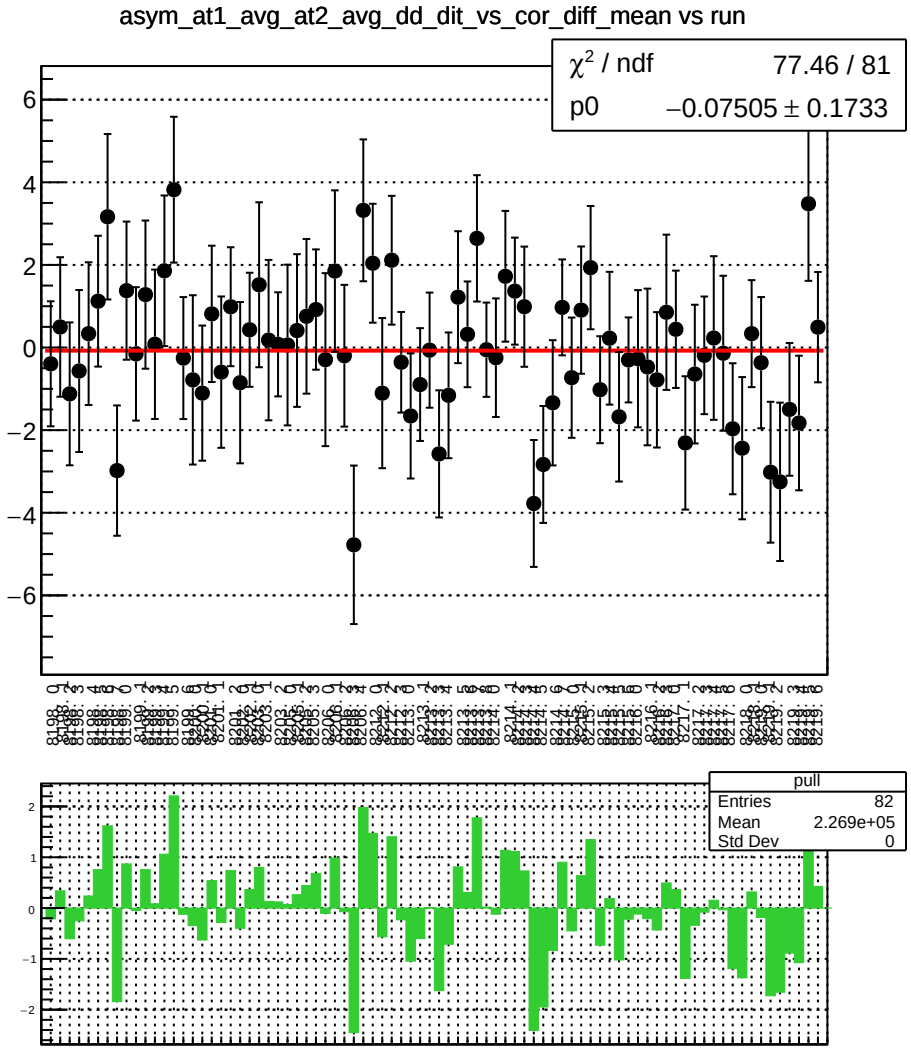

asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 99.18 / 81
p0 893.5 ± 6746
pull
Entries 82
Mean 46.38
Std Dev 0

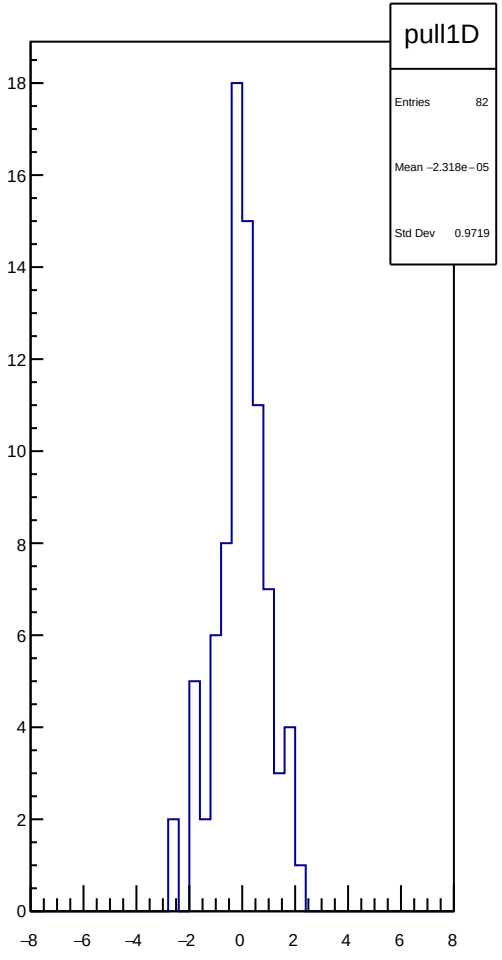

pull1D
Entries 82
Mean −0.01409
Std Dev 1.1

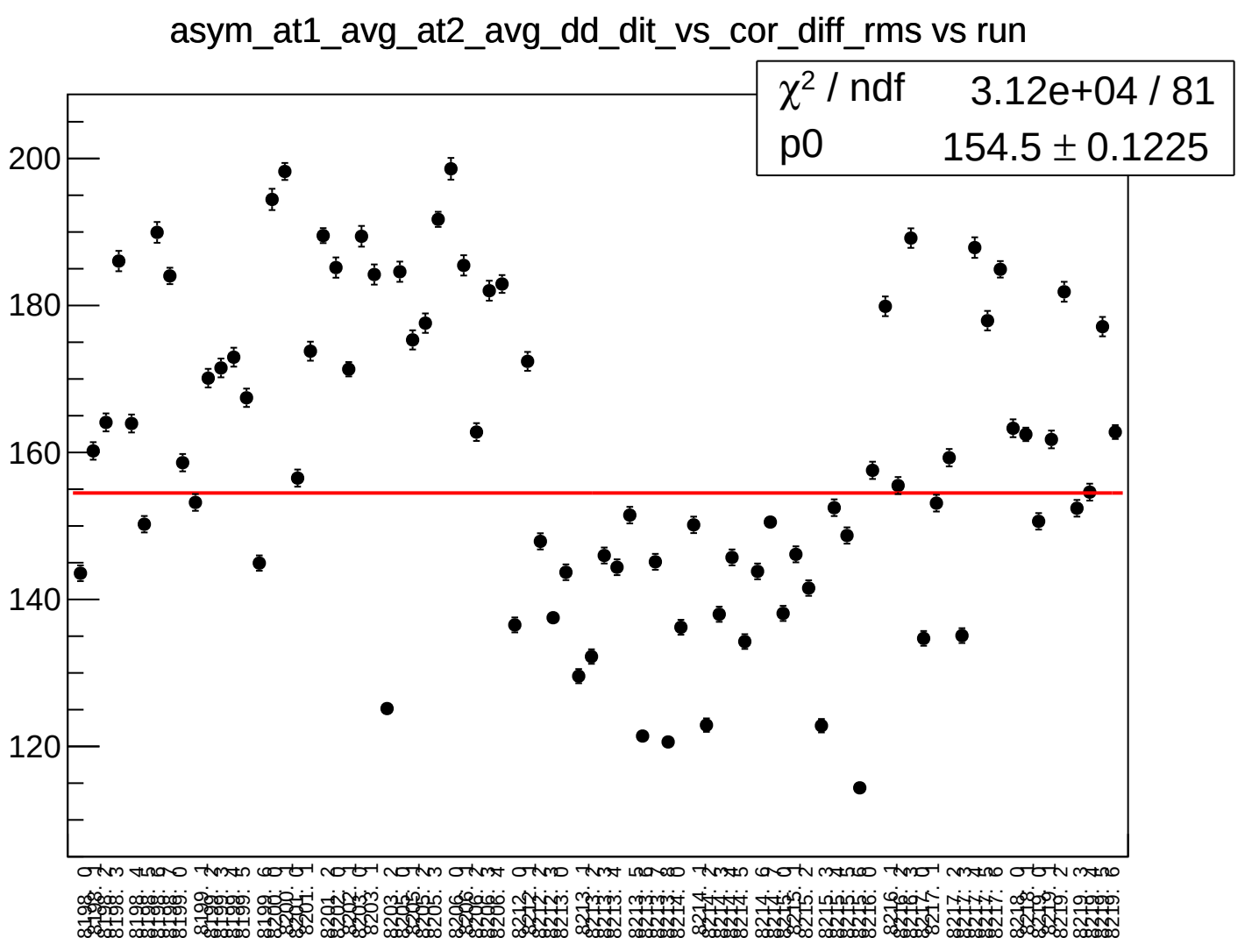

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 4943 / 81
p0 6065 ± 4.77
7000
6800
6600
6400
6200
6000
5800
5600
5400

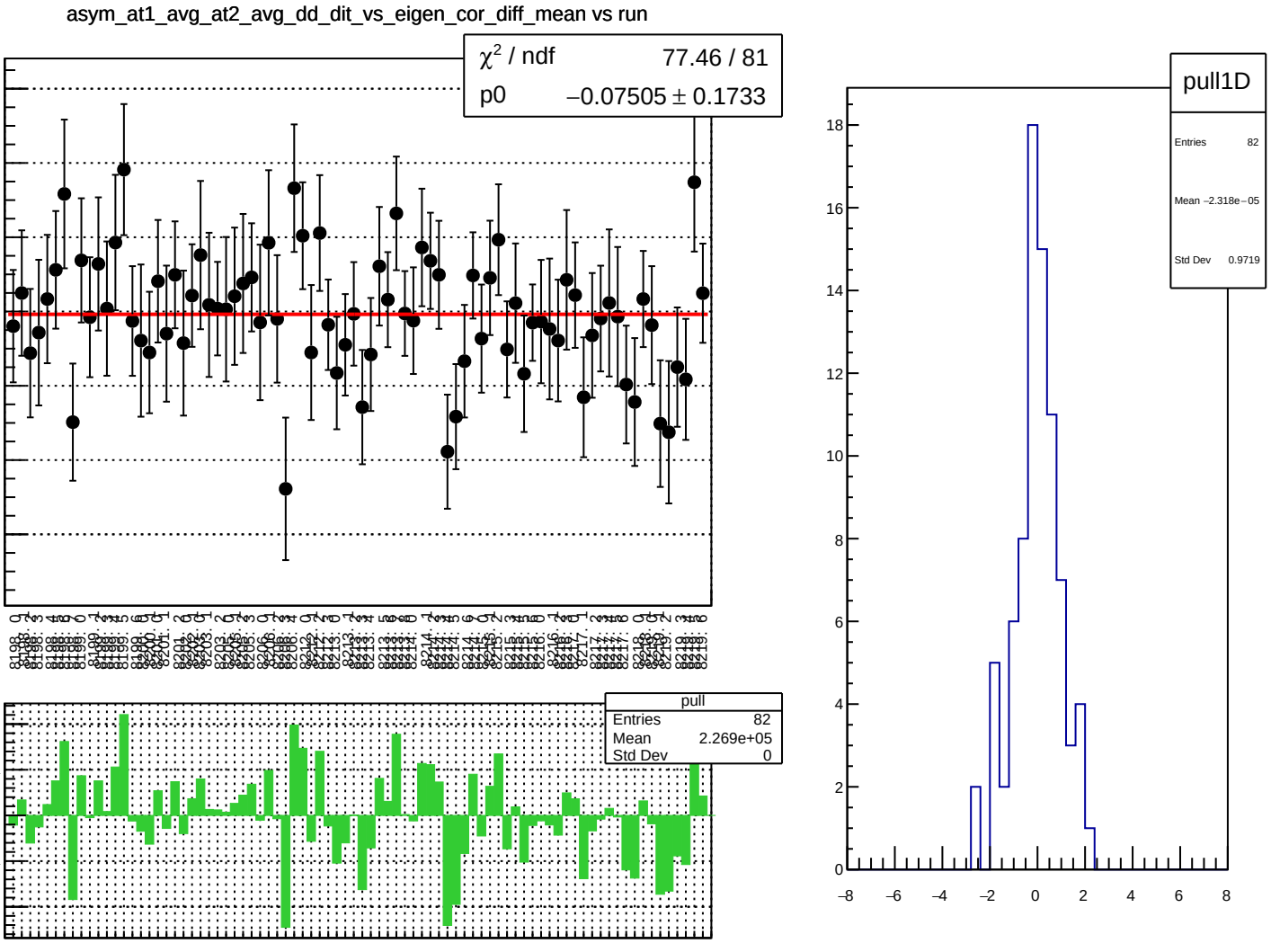

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.73 / 81
p0 −6.183e−13 ± 8.56e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean −234.1
Std Dev 0
pull1D
Entries 82
Mean −0.008302
Std Dev 0.9798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

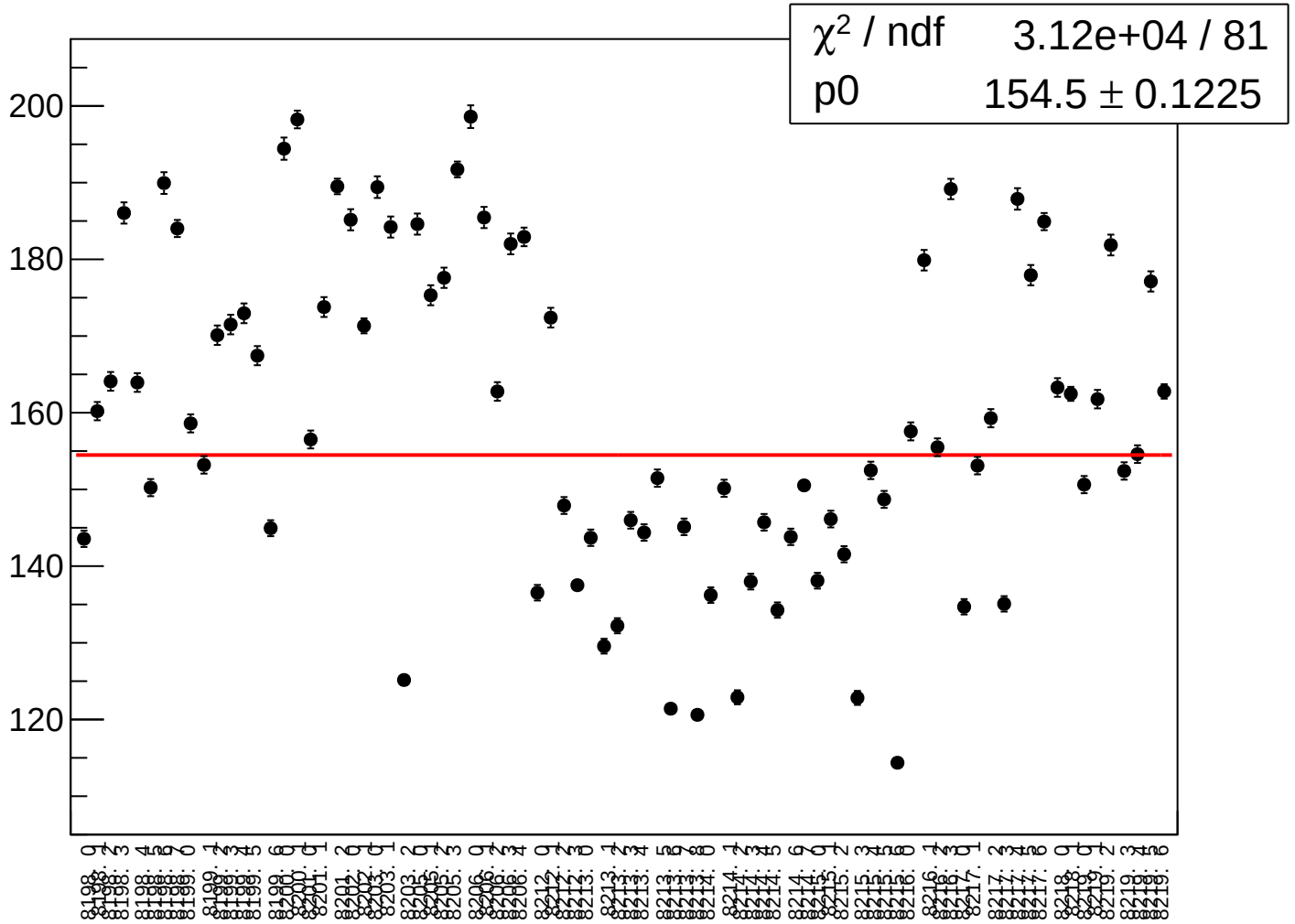

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.483e+05 / 81
p0 5.321e−10 ± 6.053e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

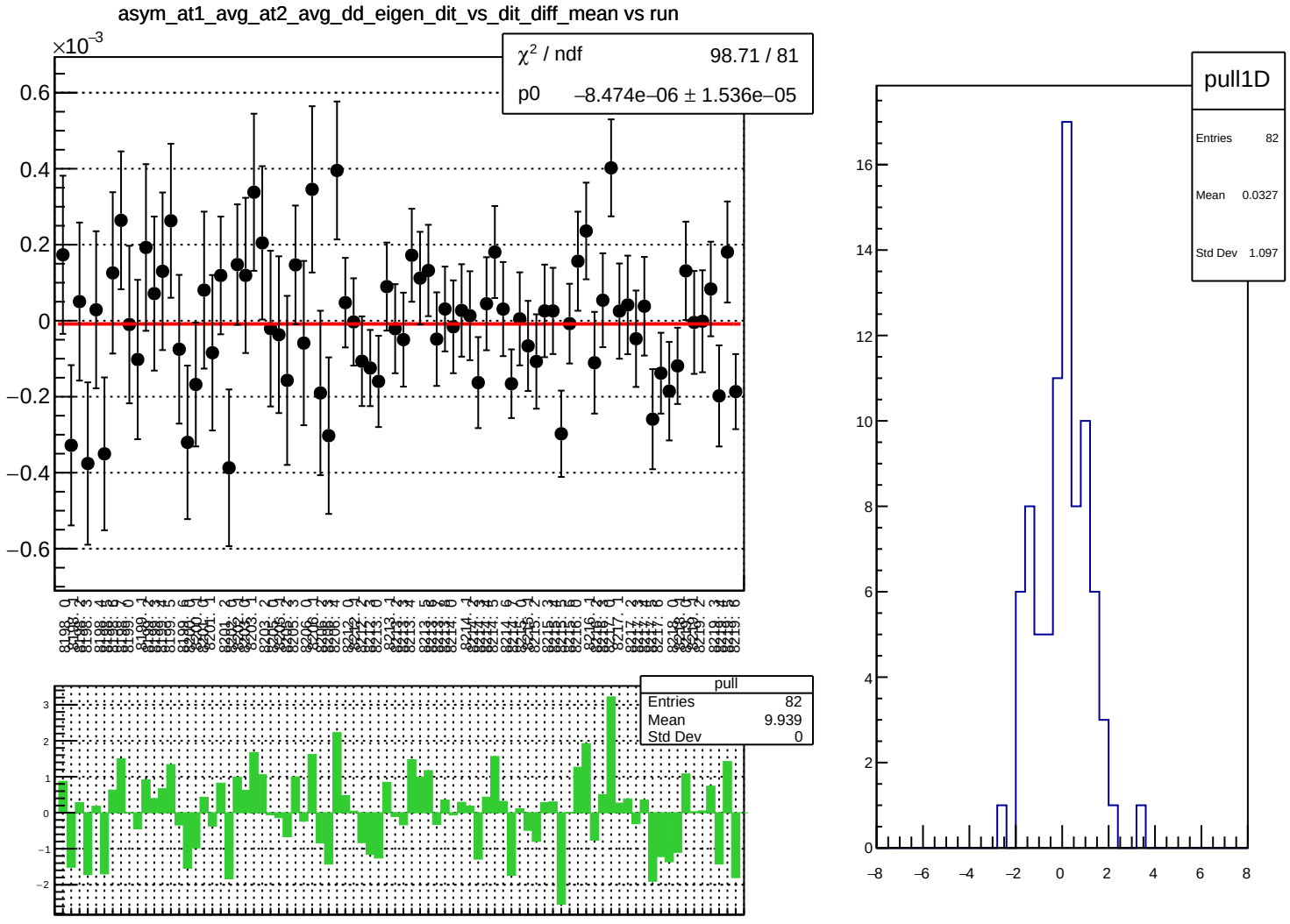

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.46 / 81
p0 −0.07505 ± 0.1733
pull
Entries 82
Mean 2.269e+05
Std Dev 0

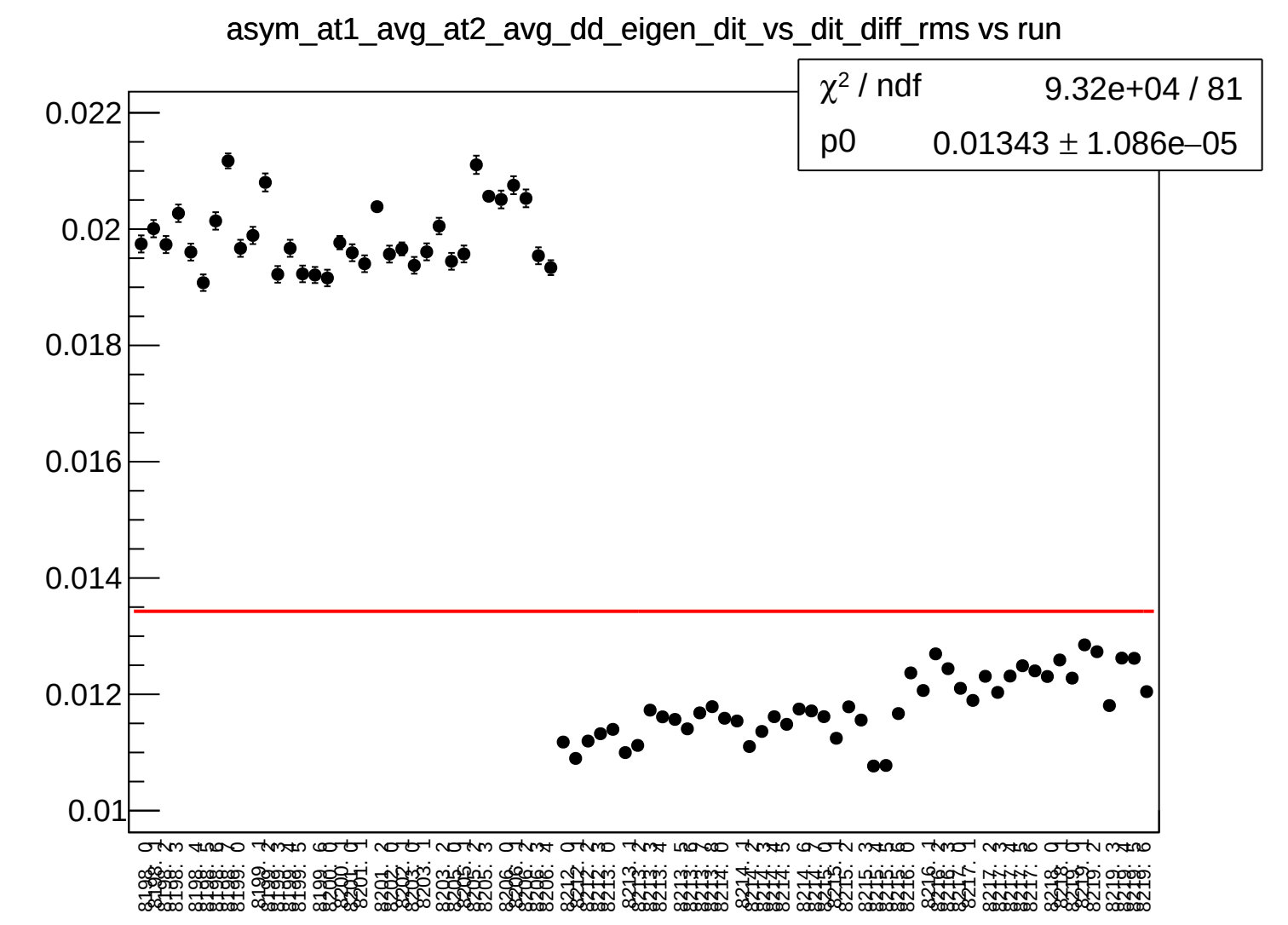

pull1D
Entries 82
Mean −2.318e−05
Std Dev 0.9719

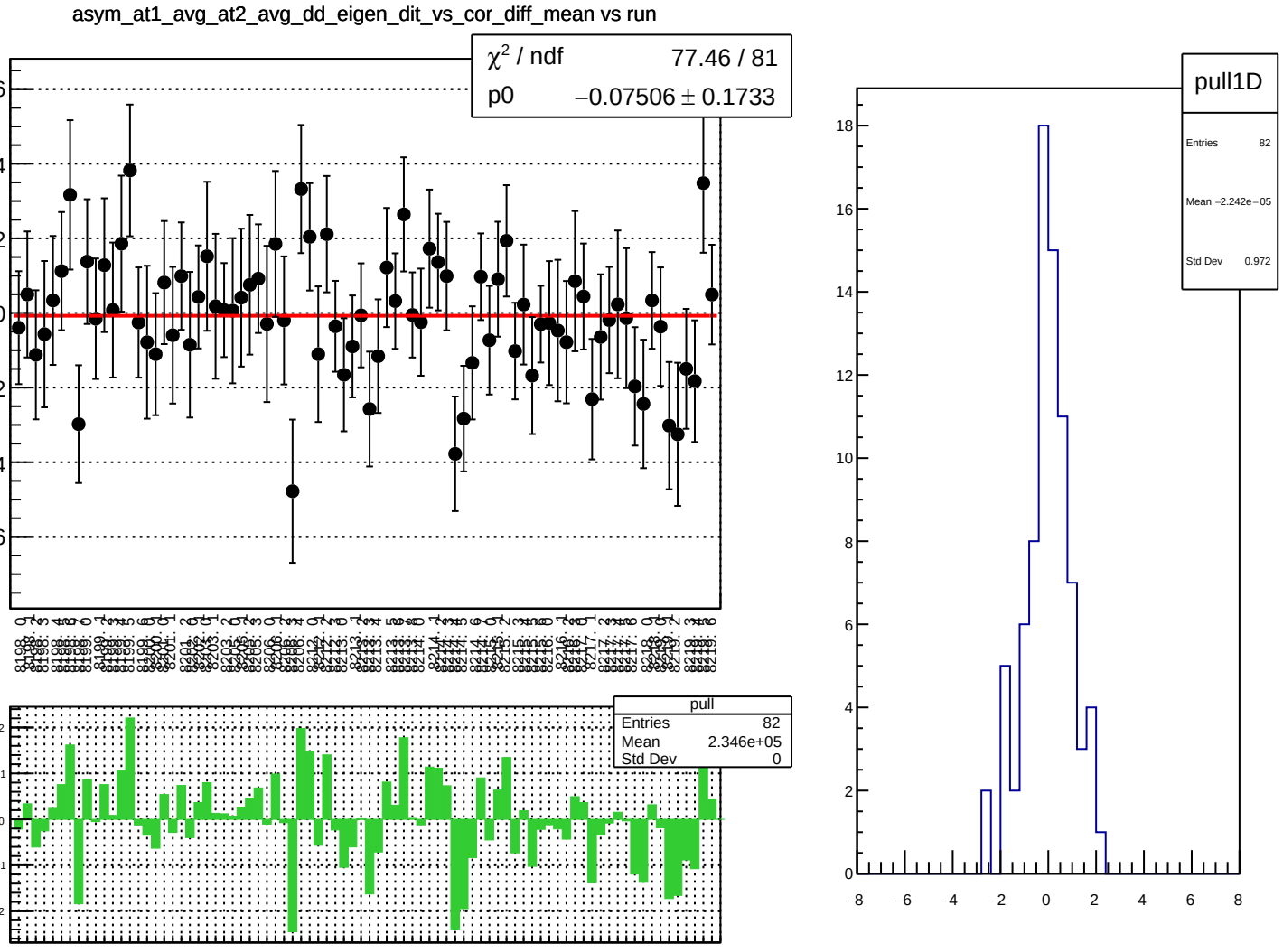

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.12e+04 / 81
p0 154.5 ± 0.1225
200
180
160
140
120

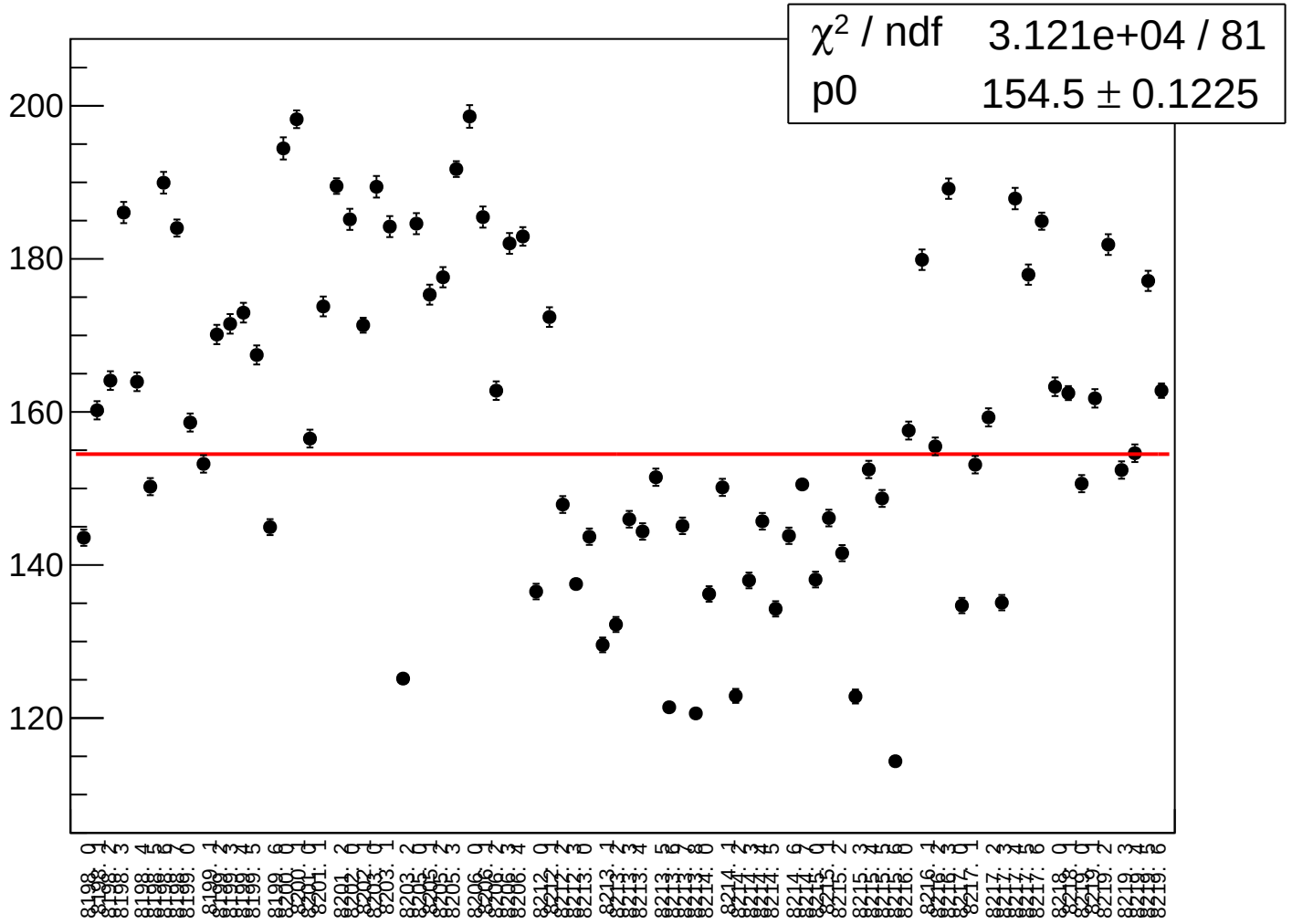

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.46 / 81
p0 −0.07505 ± 0.1733
pull
Entries 82
Mean 2.269e+05
Std Dev 0
pull1D
Entries 82
Mean −2.318e−05
Std Dev 0.9719

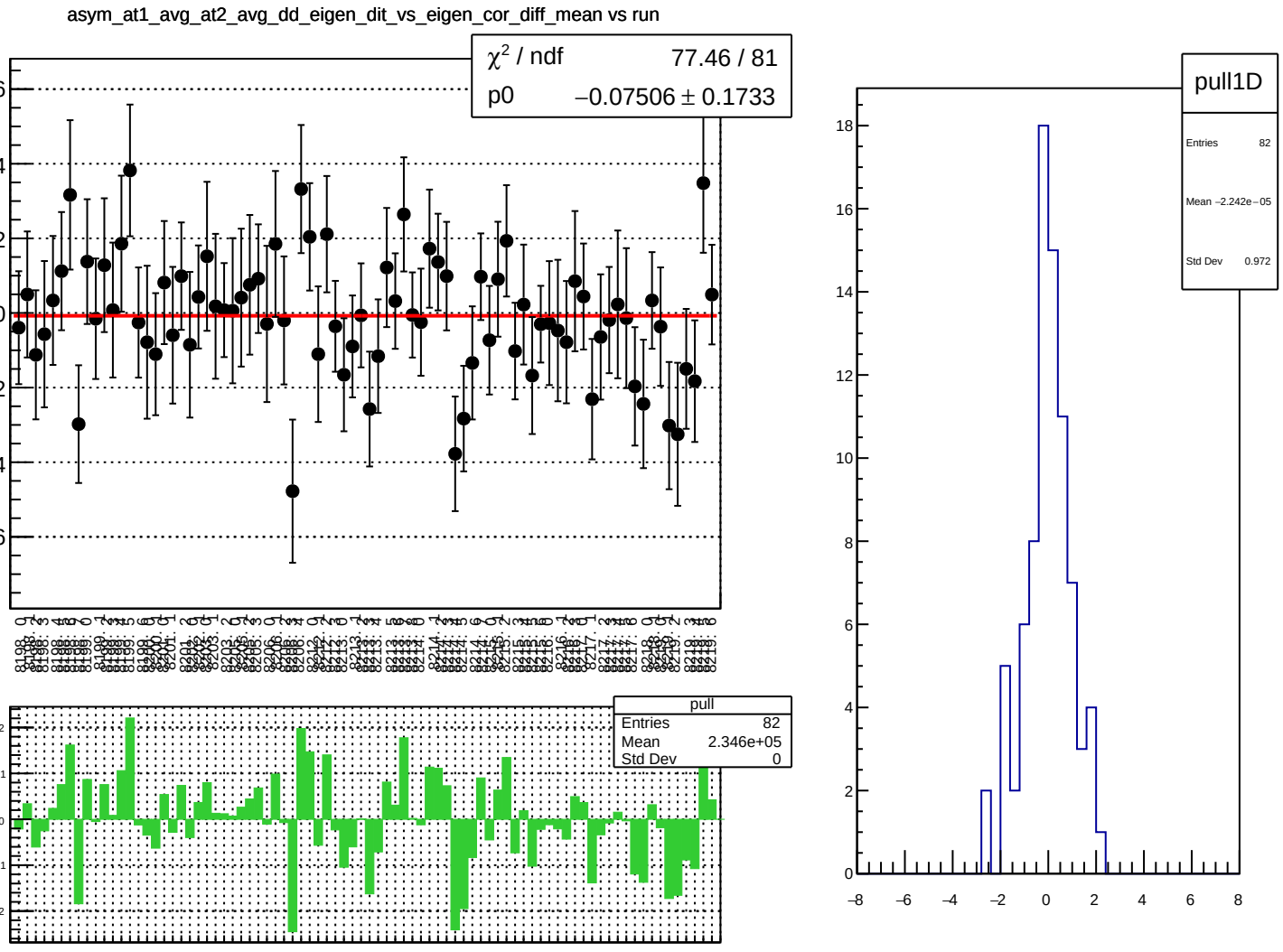

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.12e+04 / 81
p0 154.5 ± 0.1225
200
180
160
140
120

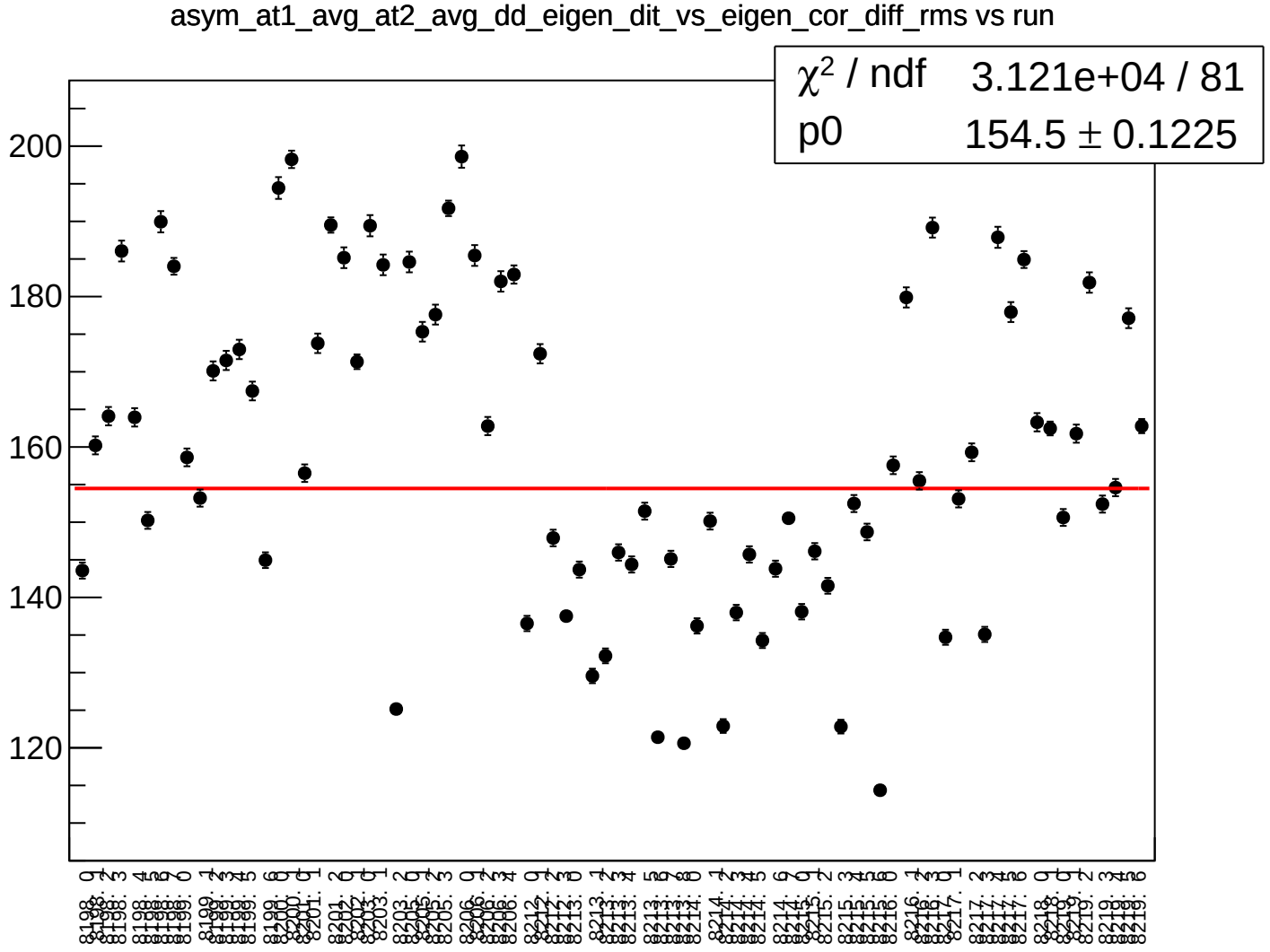

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.71 / 81
p0 −8.474e−06 ± 1.536e−05
pull
Entries 82
Mean 9.939
Std Dev 0
pull1D
Entries 82
Mean 0.0327
Std Dev 1.097

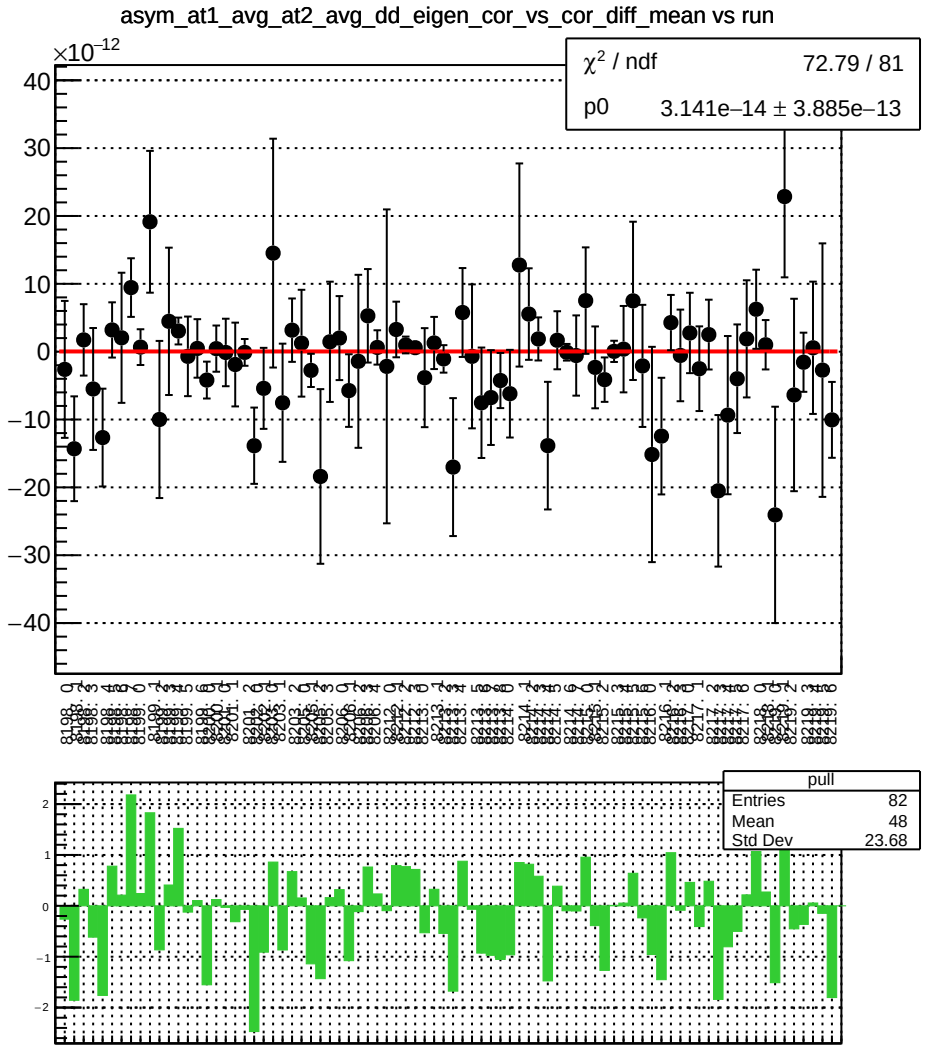

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.32e+04 / 81
p0 0.01343 ± 1.086e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

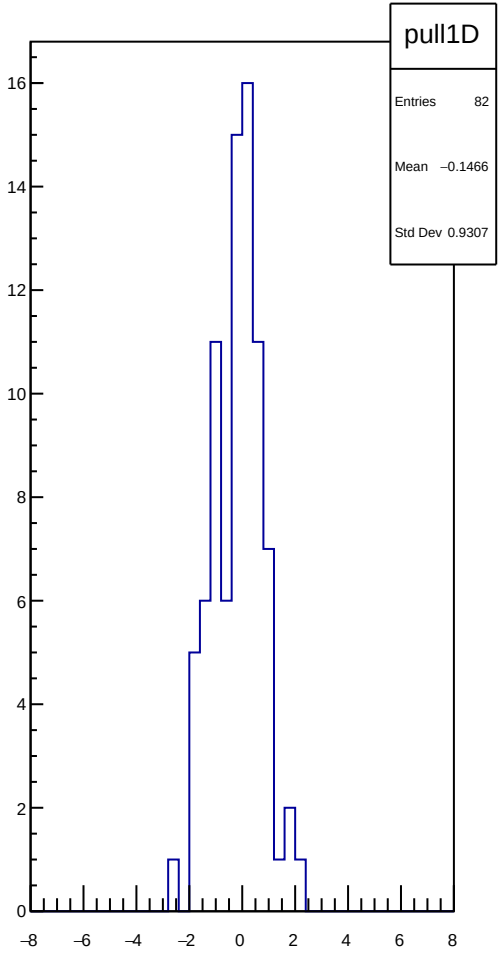

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.46 / 81
p0 −0.07506 ± 0.1733
pull
Entries 82
Mean 2.346e+05
Std Dev 0
pull1D
Entries 82
Mean −2.242e−05
Std Dev 0.972

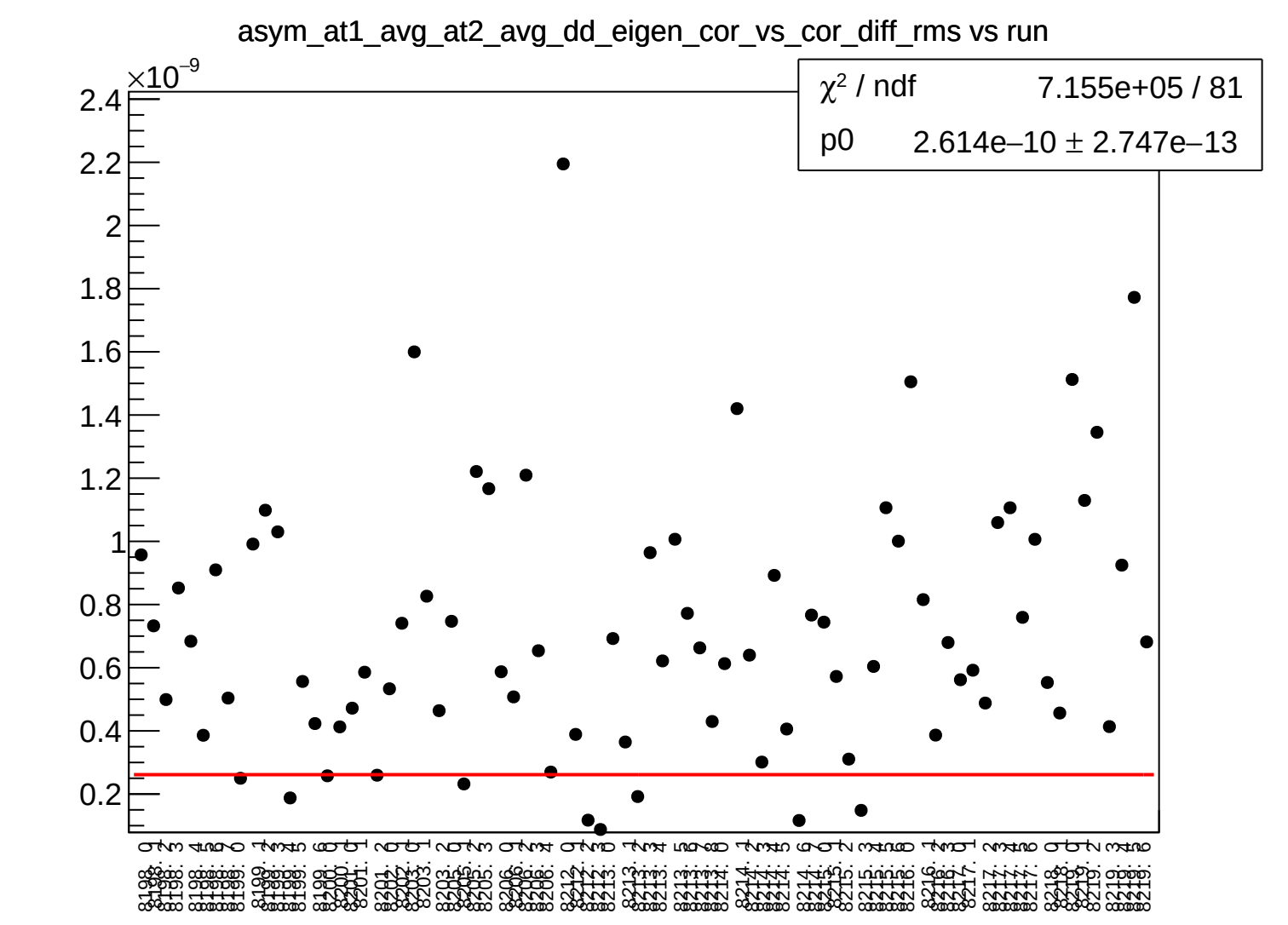

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.121e+04 / 81
p0 154.5 ± 0.1225
200
180
160
140
120

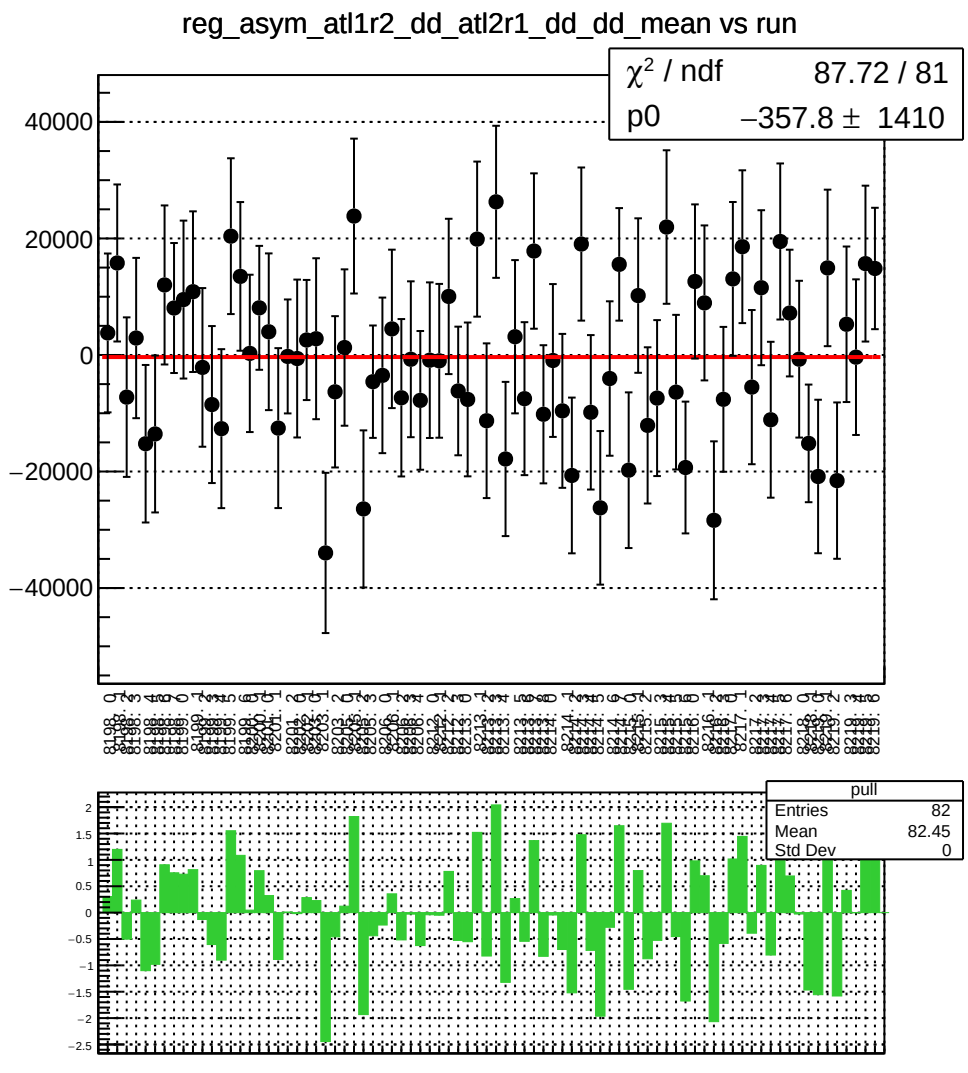

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.46 / 81
p0 −0.07506 ± 0.1733
pull
Entries 82
Mean 2.346e+05
Std Dev 0
pull1D
Entries 82
Mean −2.242e−05
Std Dev 0.972

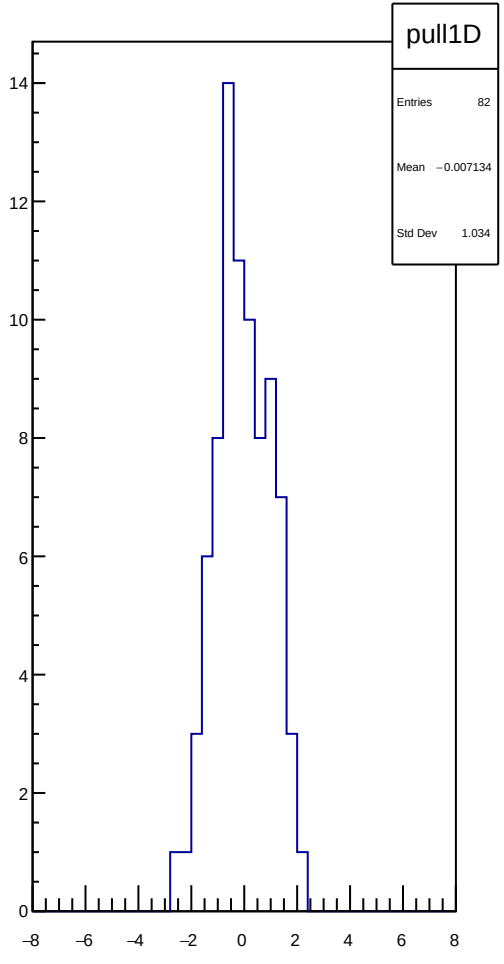

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.121e+04 / 81
p0 154.5 ± 0.1225
200
180
160
140
120

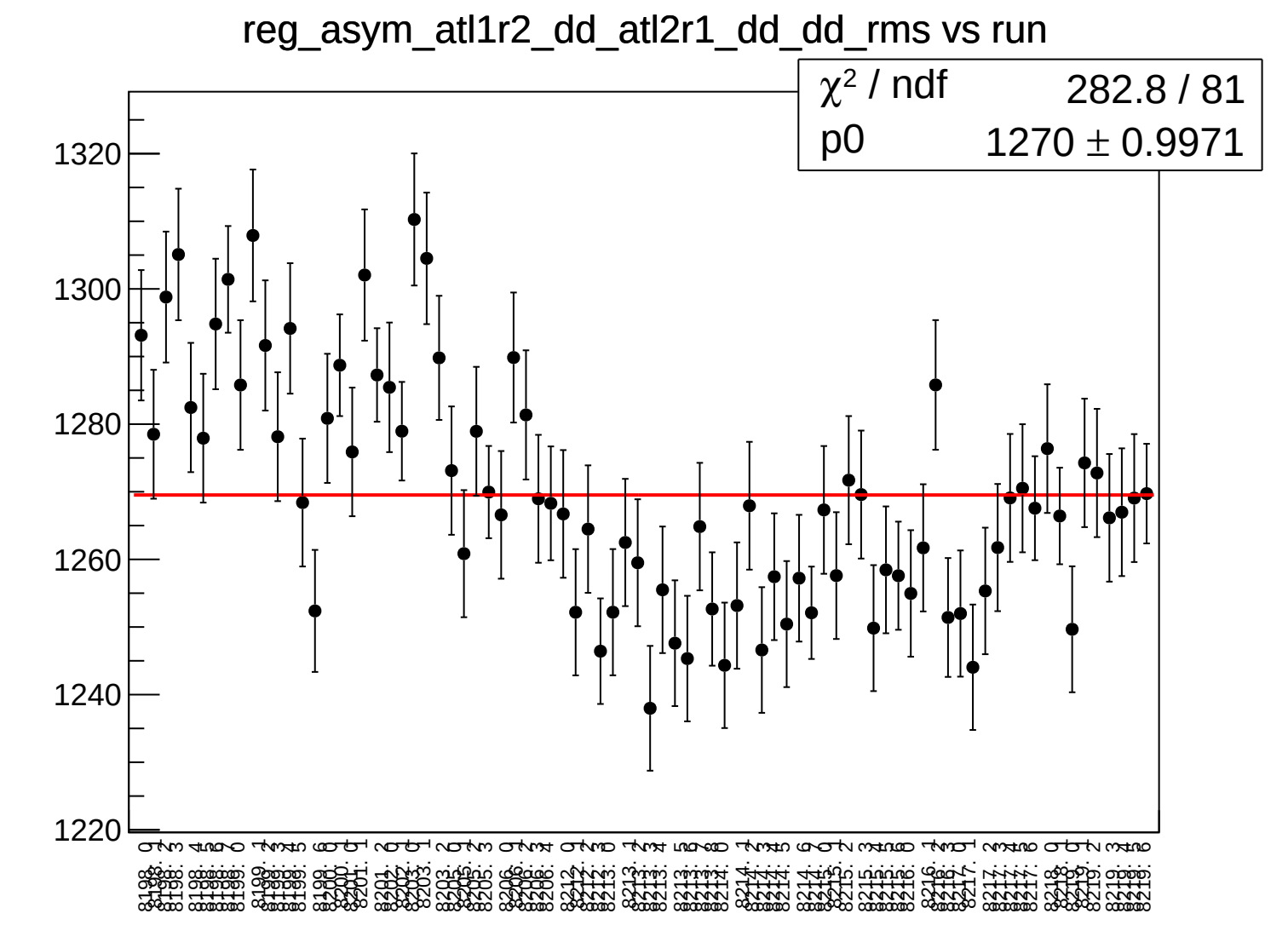

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.79 / 81
p0 3.141e−14 ± 3.885e−13
pull
Entries 82
Mean 48
Std Dev 23.68

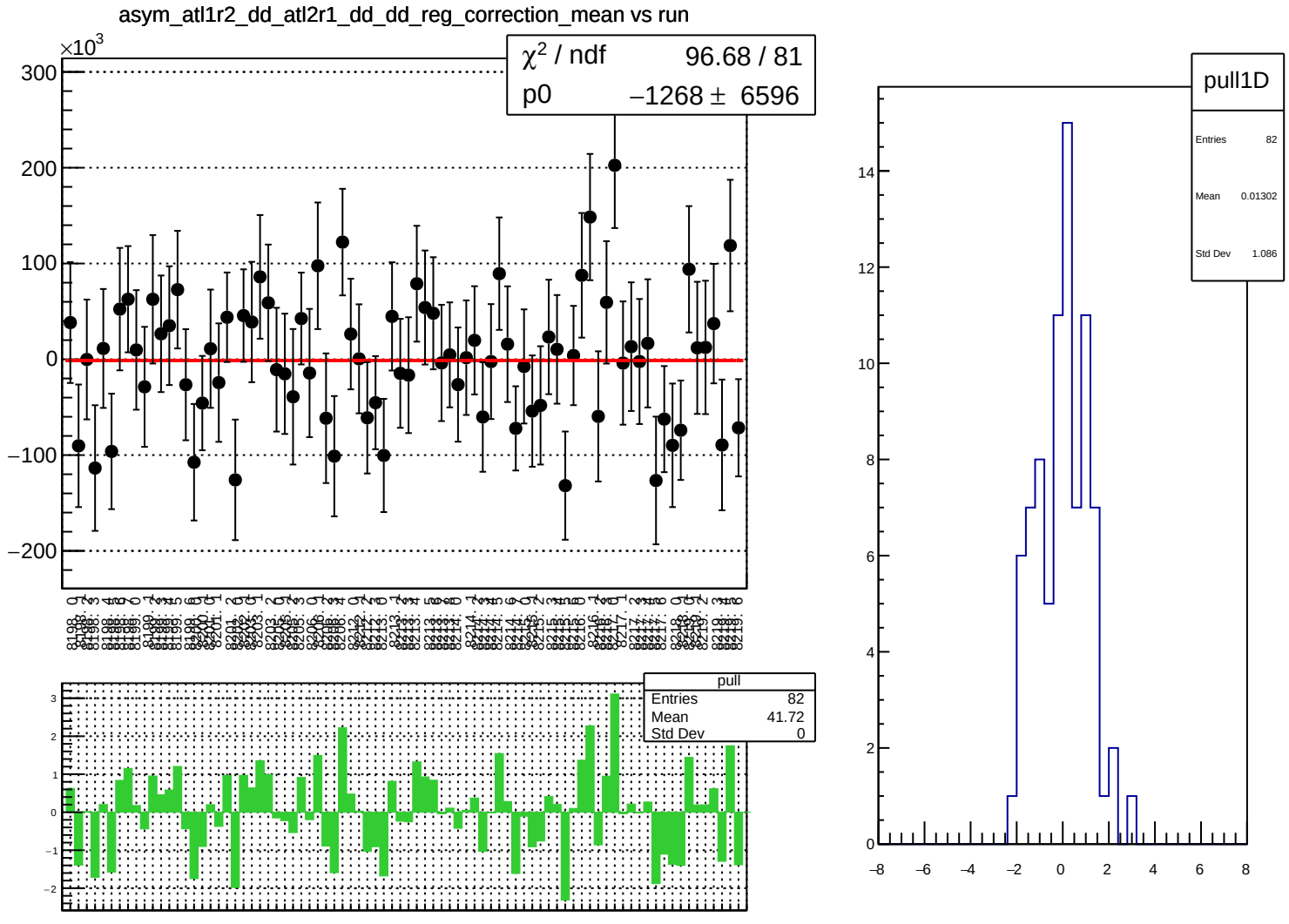

pull1D
Entries 82
Mean −0.1466
Std Dev 0.9307

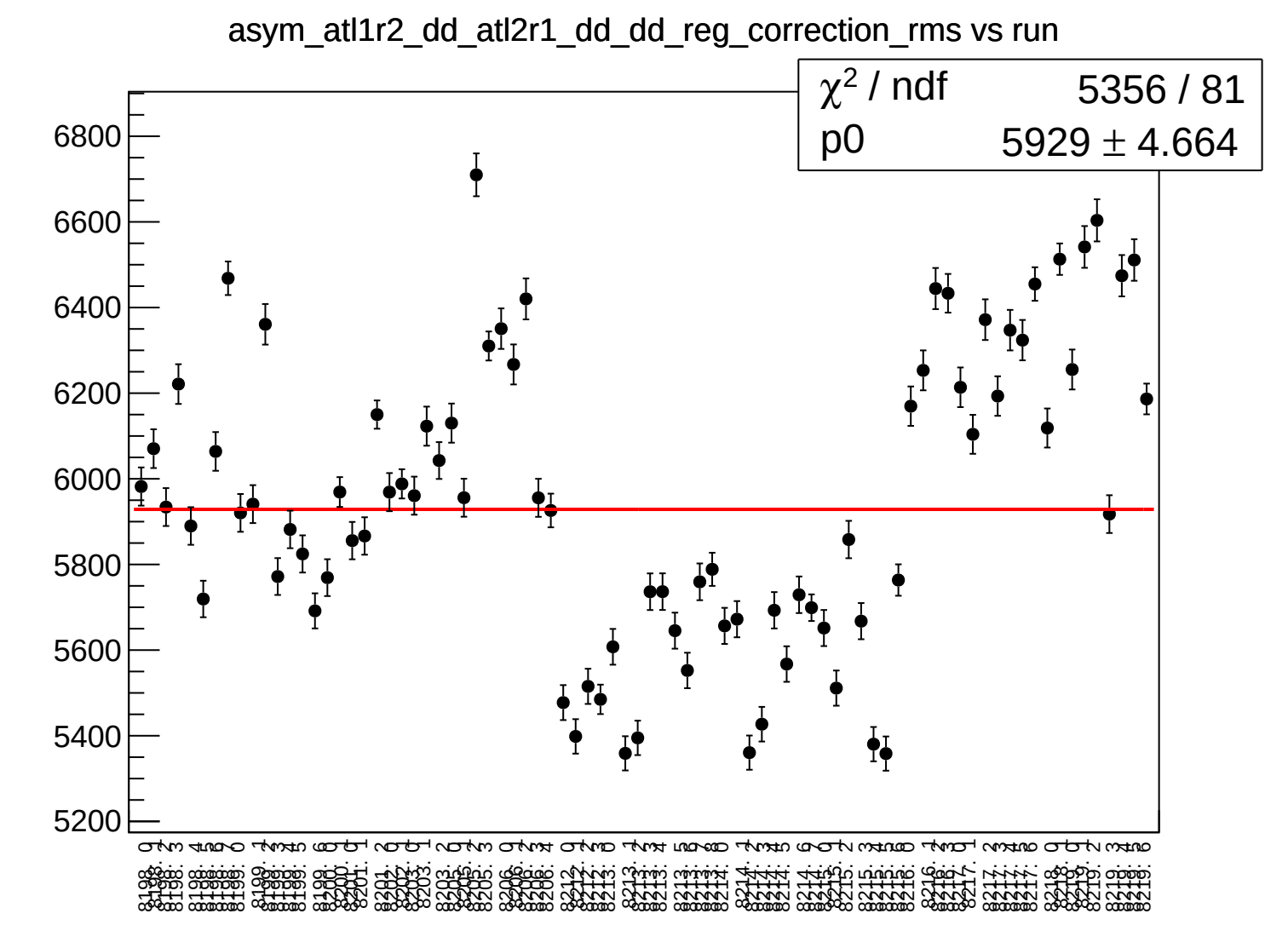

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.155e+05 / 81
p0 2.614e−10 ± 2.747e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

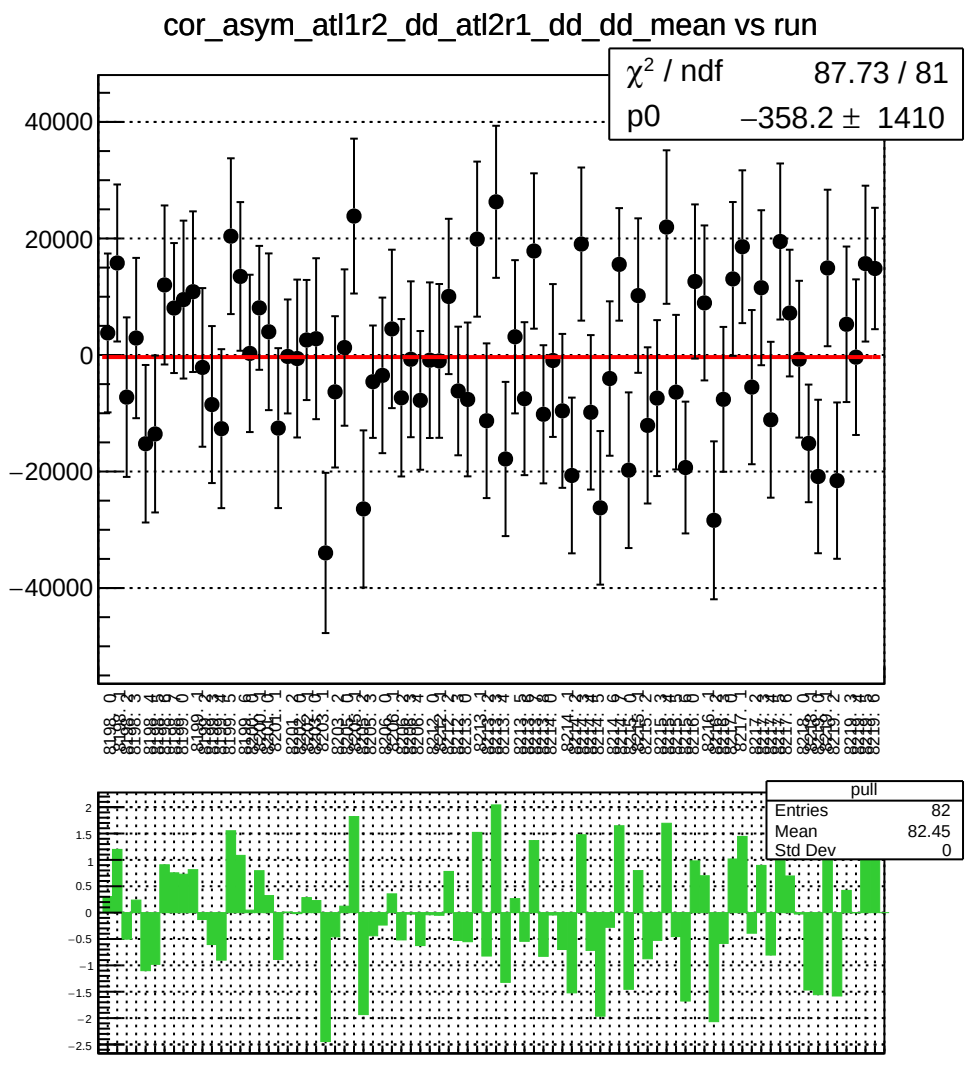

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 87.72 / 81
p0 −357.8 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 82.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

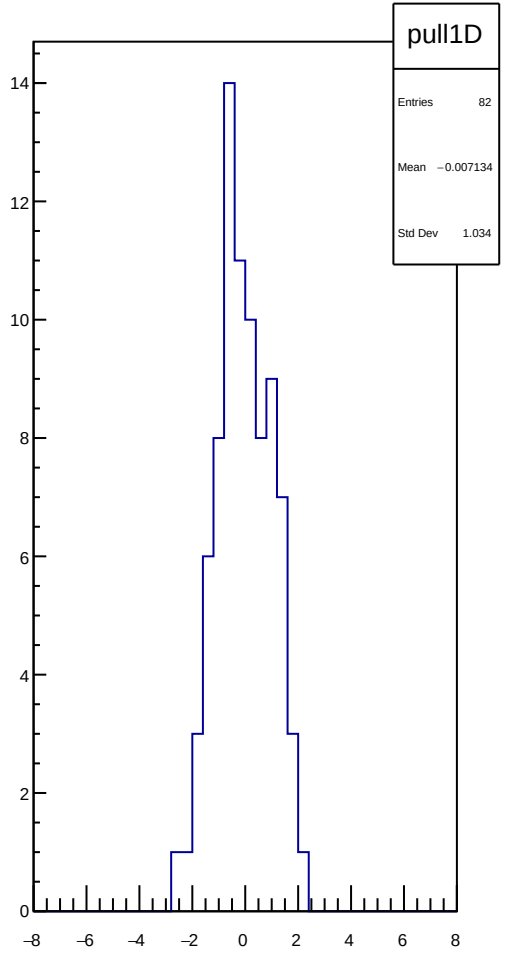

pull1D
Entries 82
Mean −0.007134
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

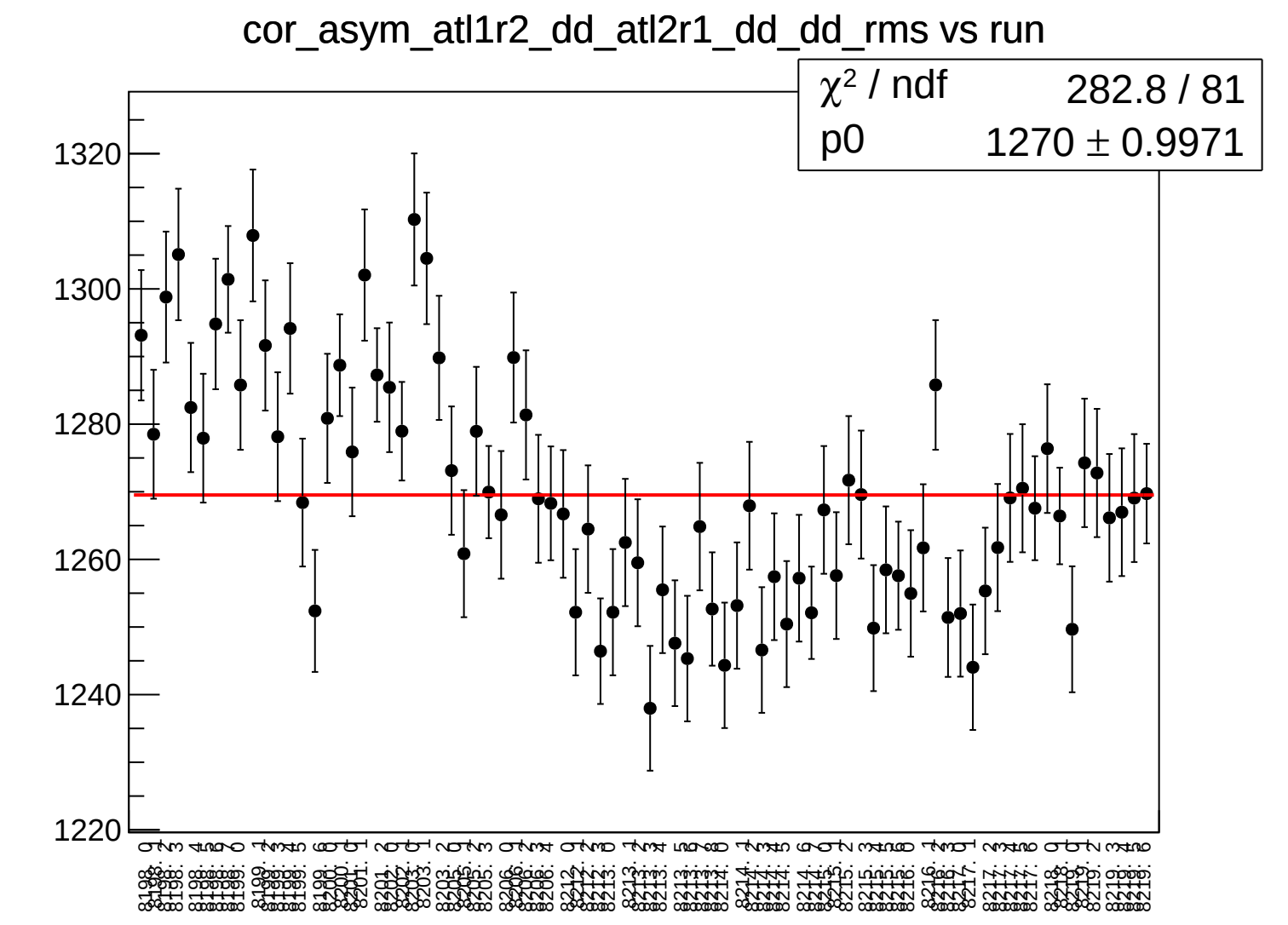

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 282.8 / 81
p0 1270 ± 0.9971
1320
1300
1280
1260
1240
1220

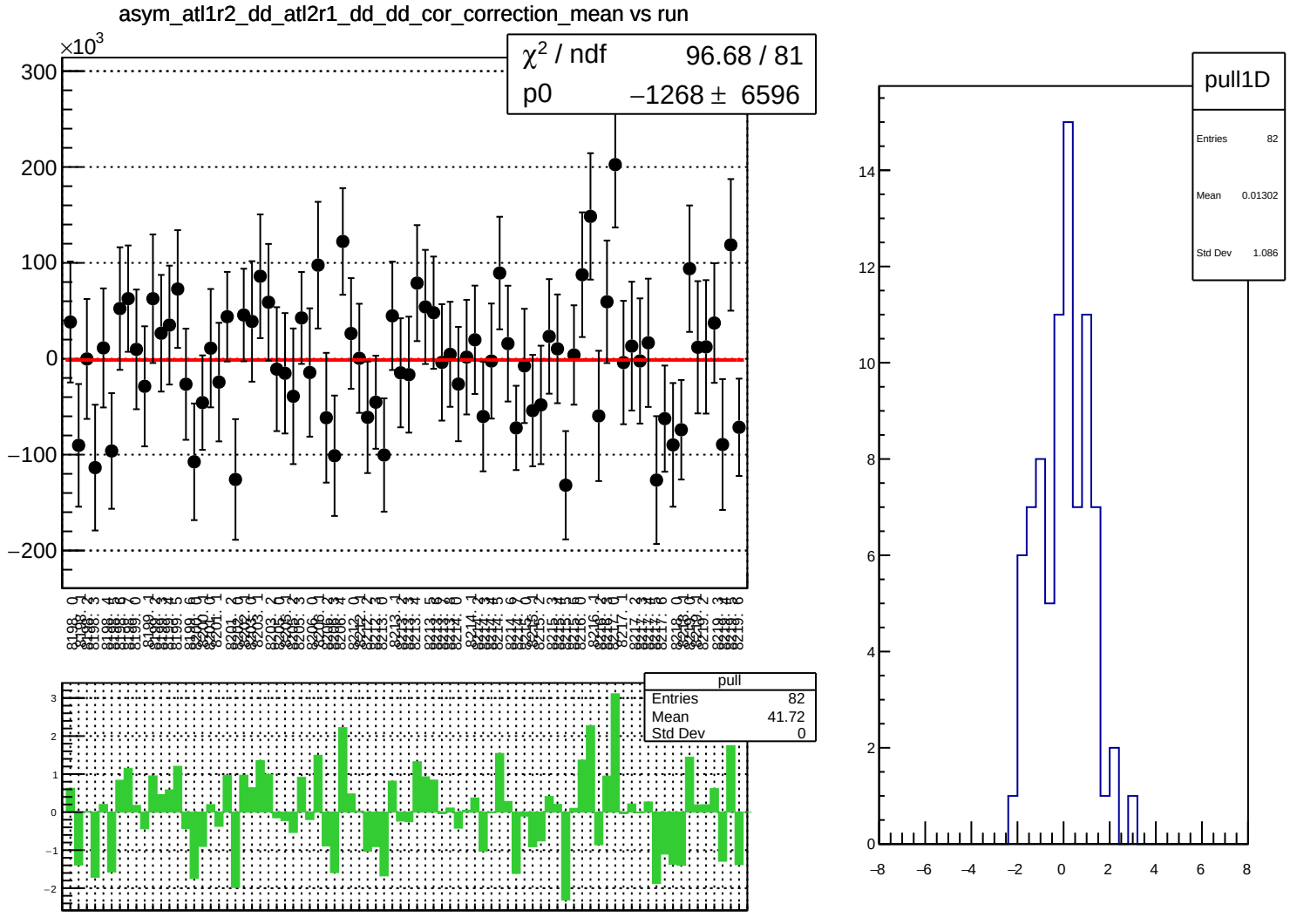

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.68 / 81
p0 −1268 ± 6596
pull
Entries 82
Mean 41.72
Std Dev 0
pull1D
Entries 82
Mean 0.01302
Std Dev 1.086

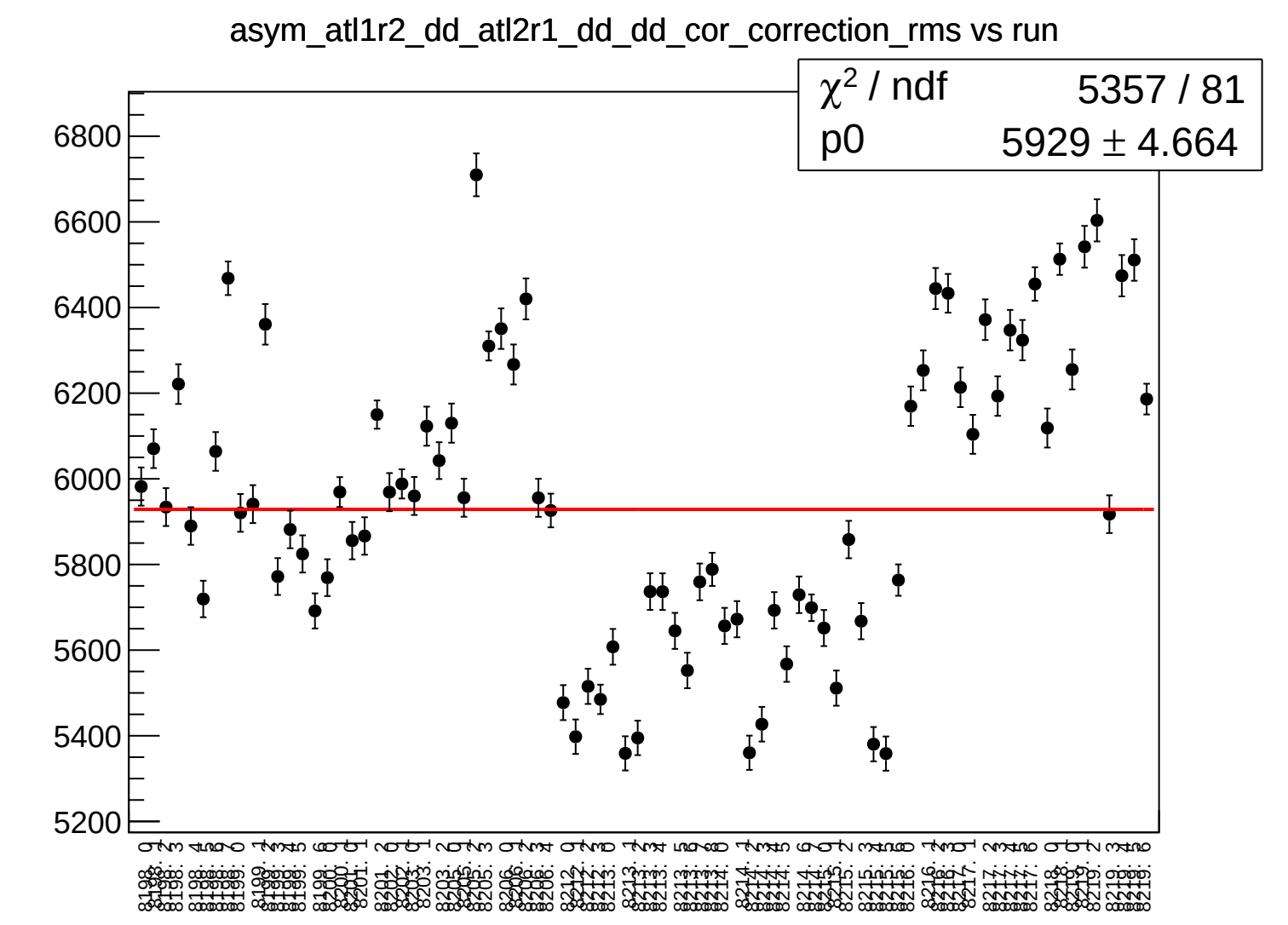

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 5356 / 81
p0 5929 ± 4.664
6800
6600
6400
6200
6000
5800
5600
5400
5200

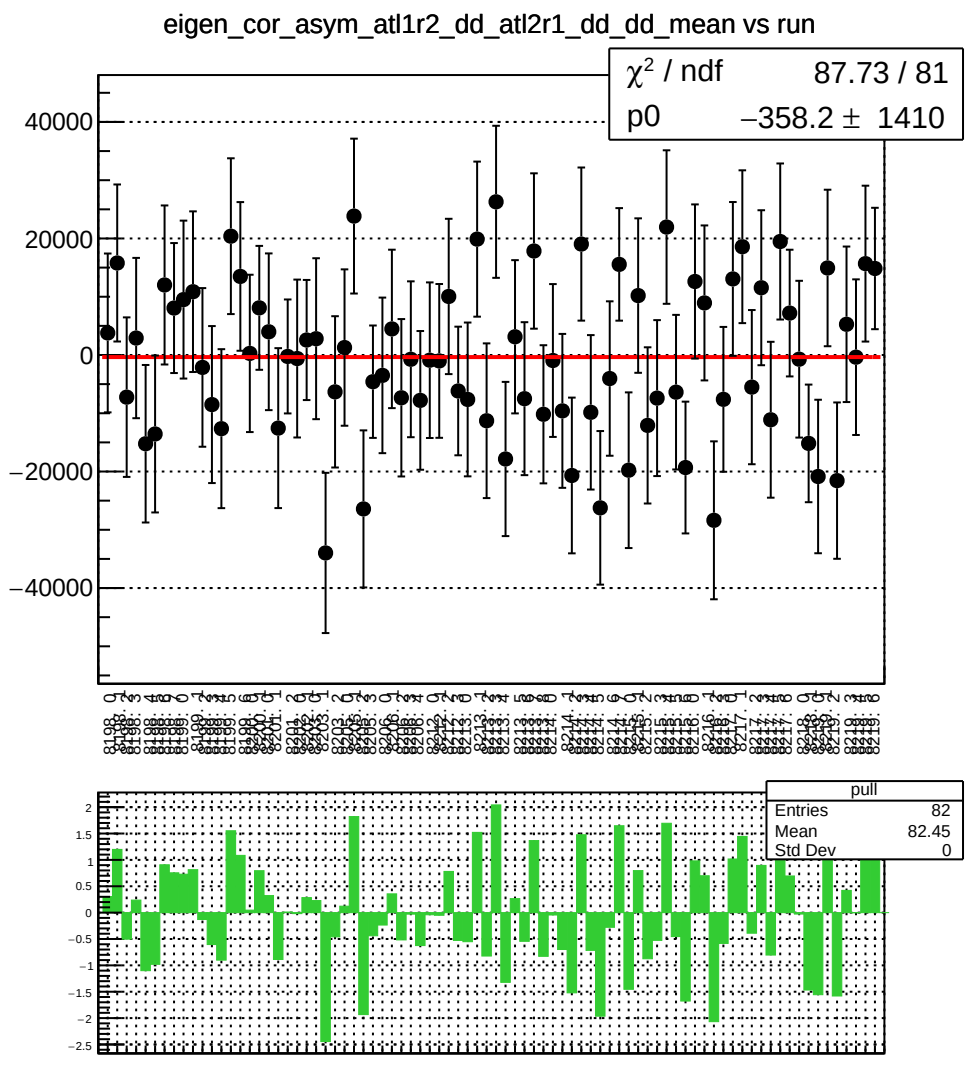

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 87.73 / 81
p0 −358.2 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 82.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

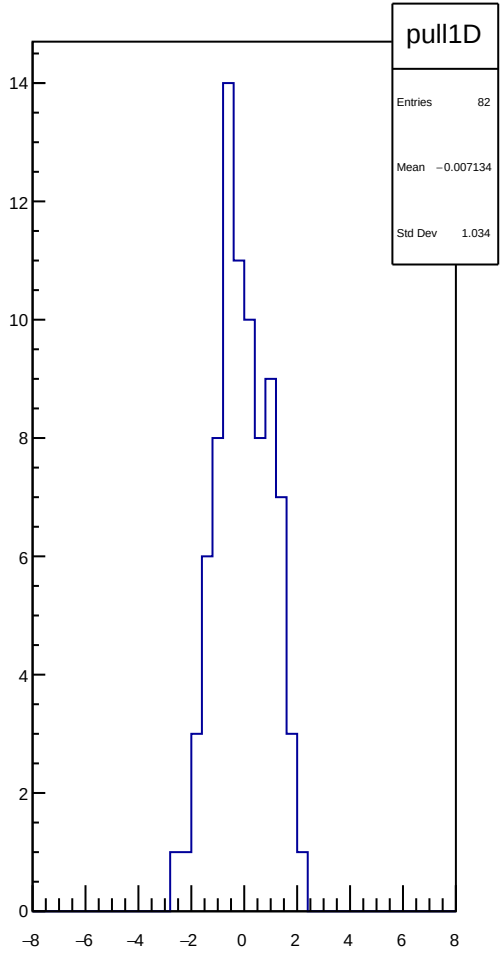

pull1D
Entries 82
Mean −0.007134
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

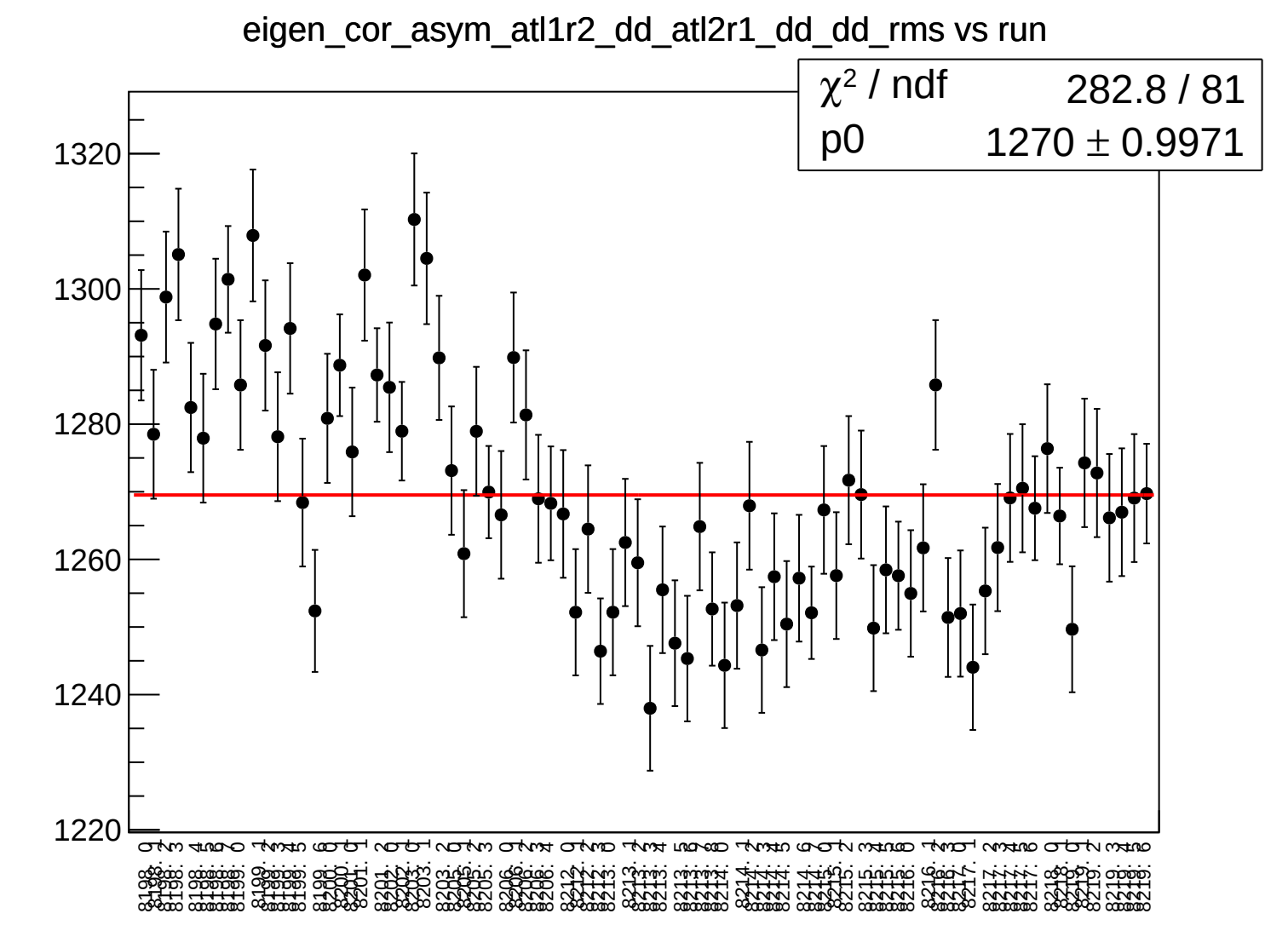

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 282.8 / 81
p0 1270 ± 0.9971
1320
1300
1280
1260
1240
1220

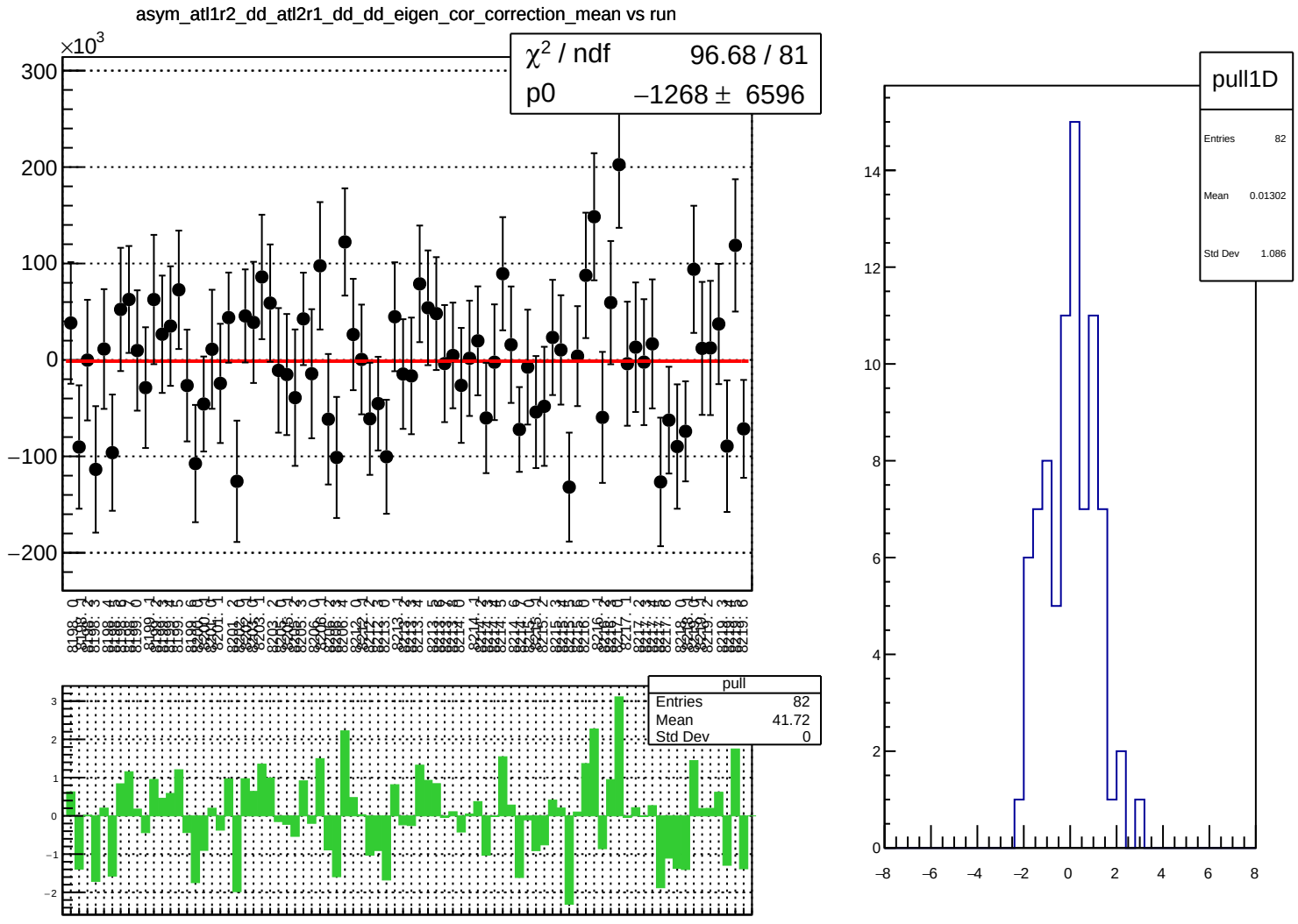

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.68 / 81
p0 −1268 ± 6596
pull
Entries 82
Mean 41.72
Std Dev 0
pull1D
Entries 82
Mean 0.01302
Std Dev 1.086

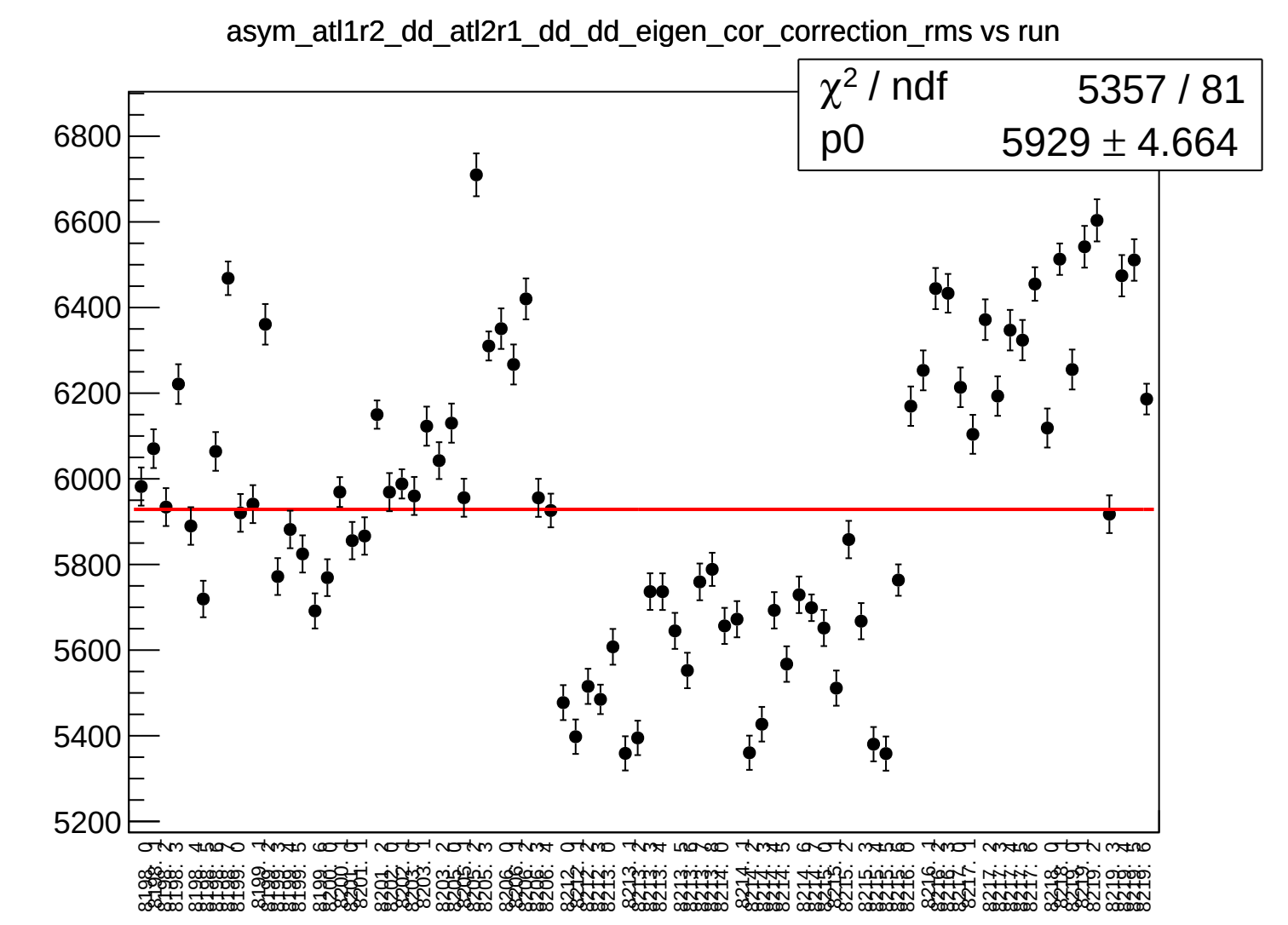

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 5357 / 81
p0 5929 ± 4.664
6800
6600
6400
6200
6000
5800
5600
5400
5200

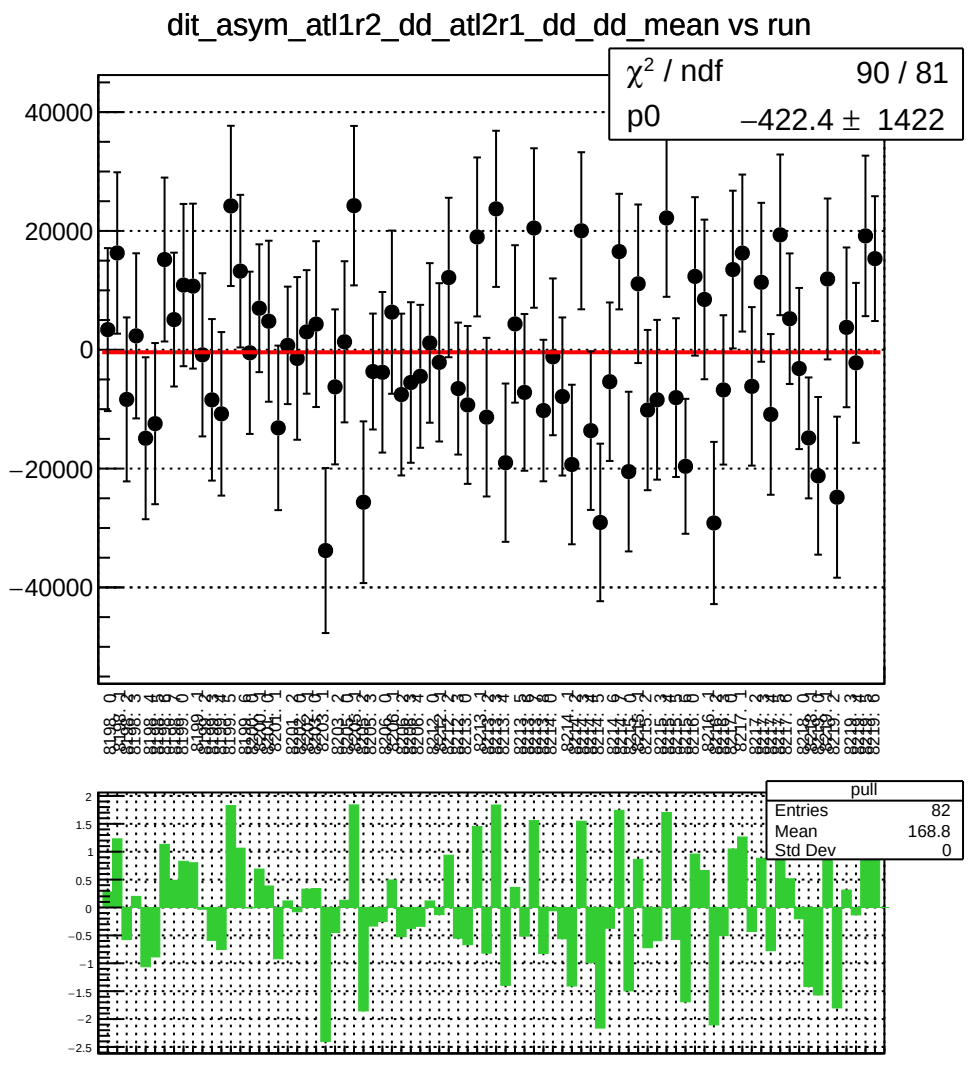

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 87.73 / 81
p0 −358.2 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 82.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

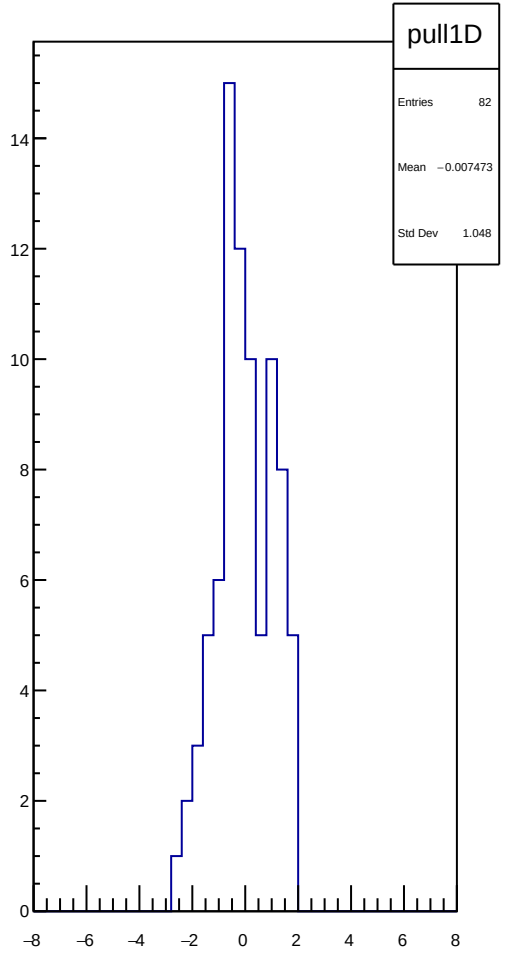

pull1D
Entries 82
Mean −0.007134
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

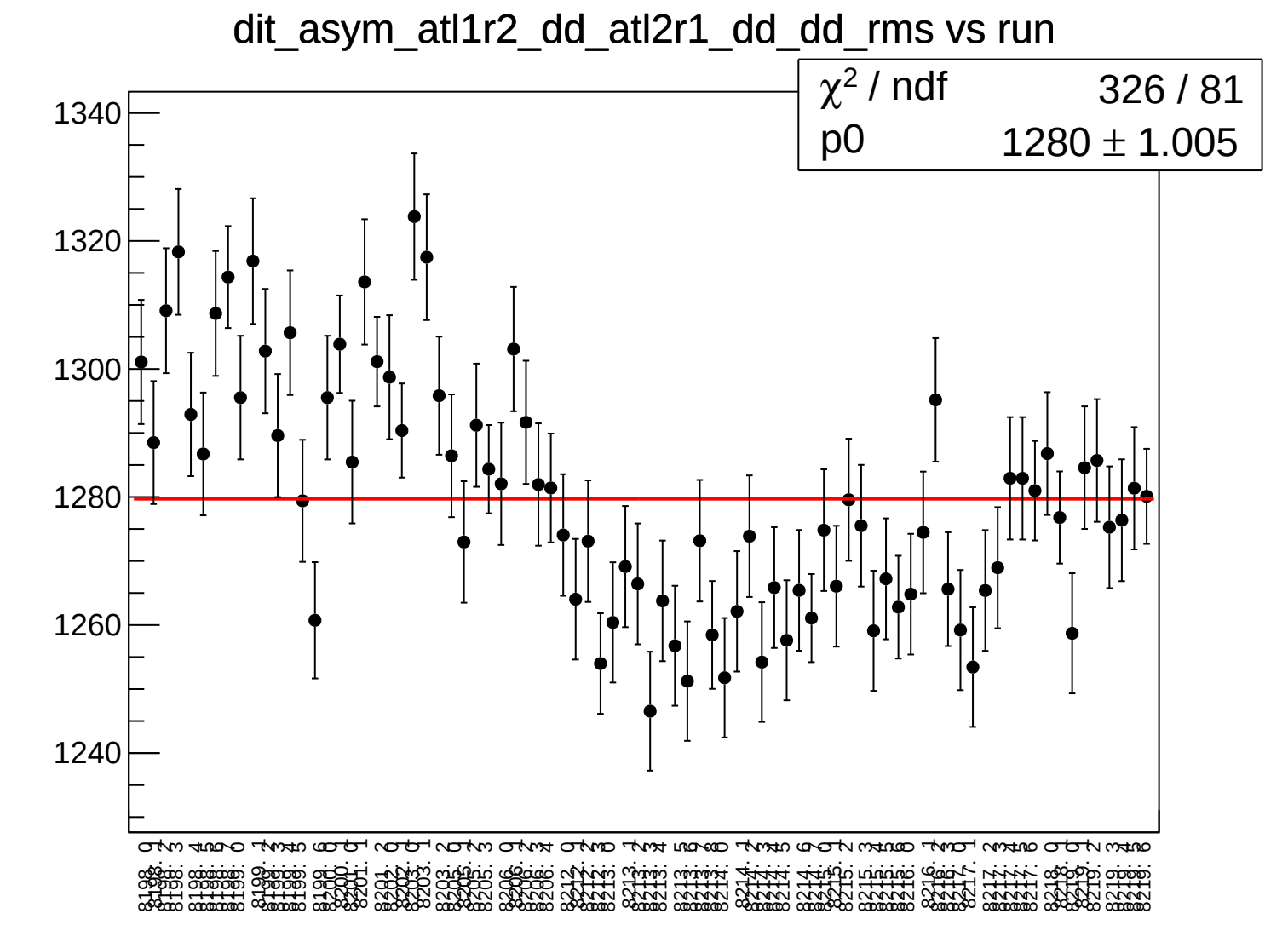

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 282.8 / 81
p0 1270 ± 0.9971
1320
1300
1280
1260
1240
1220

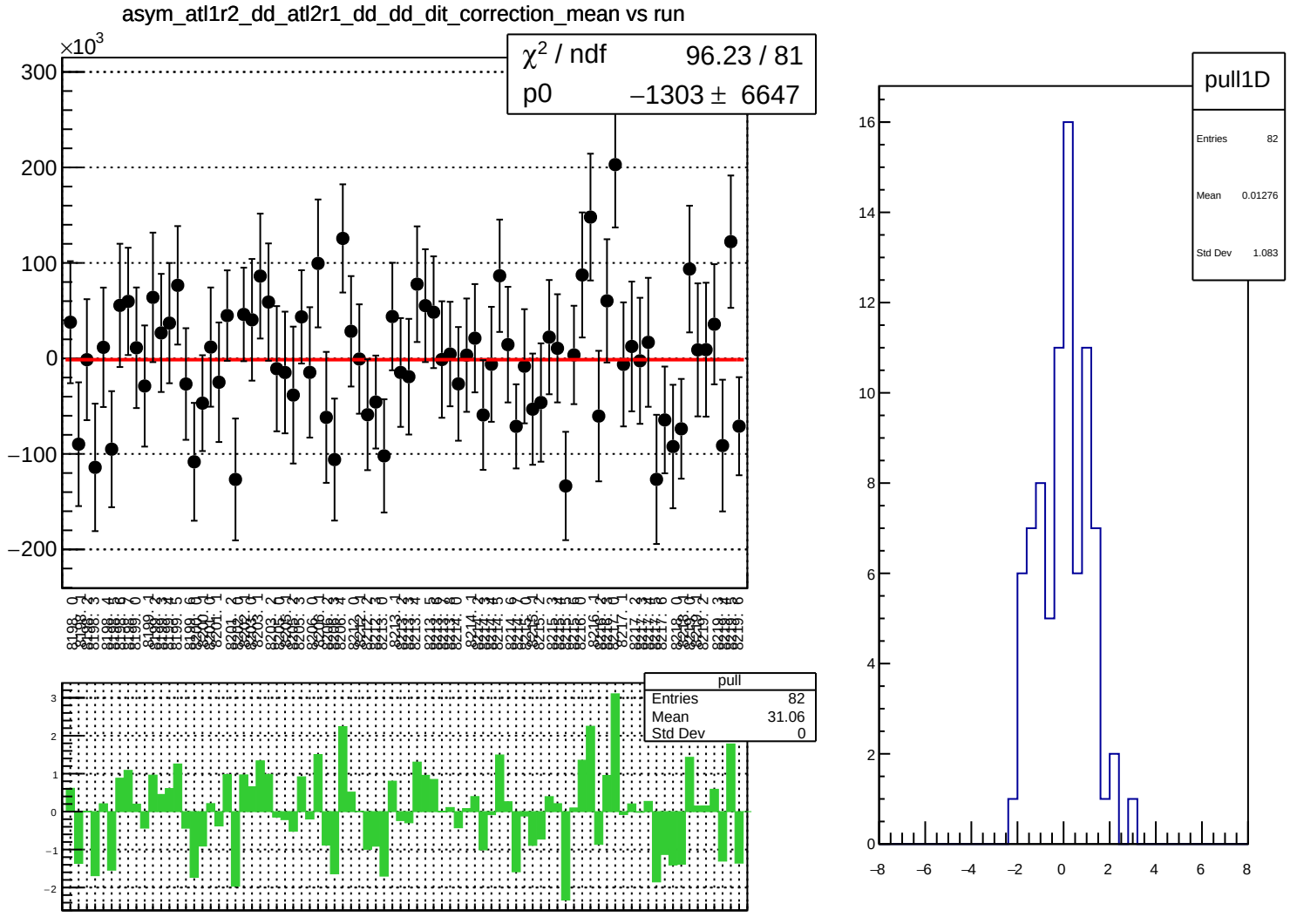

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.68 / 81
p0 −1268 ± 6596
pull
Entries 82
Mean 41.72
Std Dev 0
pull1D
Entries 82
Mean 0.01302
Std Dev 1.086

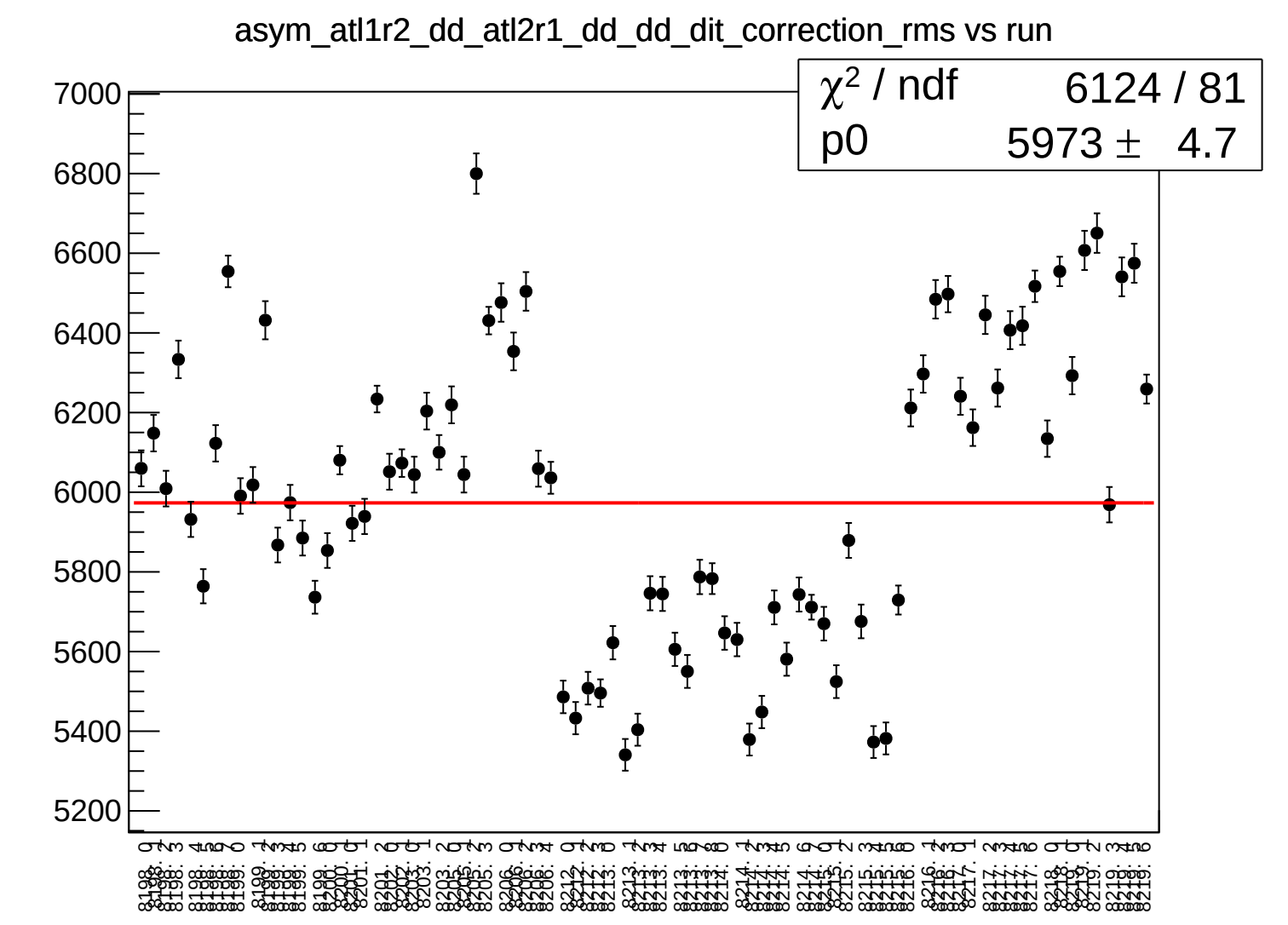

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5357 / 81
p0 5929 ± 4.664
6800
6600
6400
6200
6000
5800
5600
5400
5200

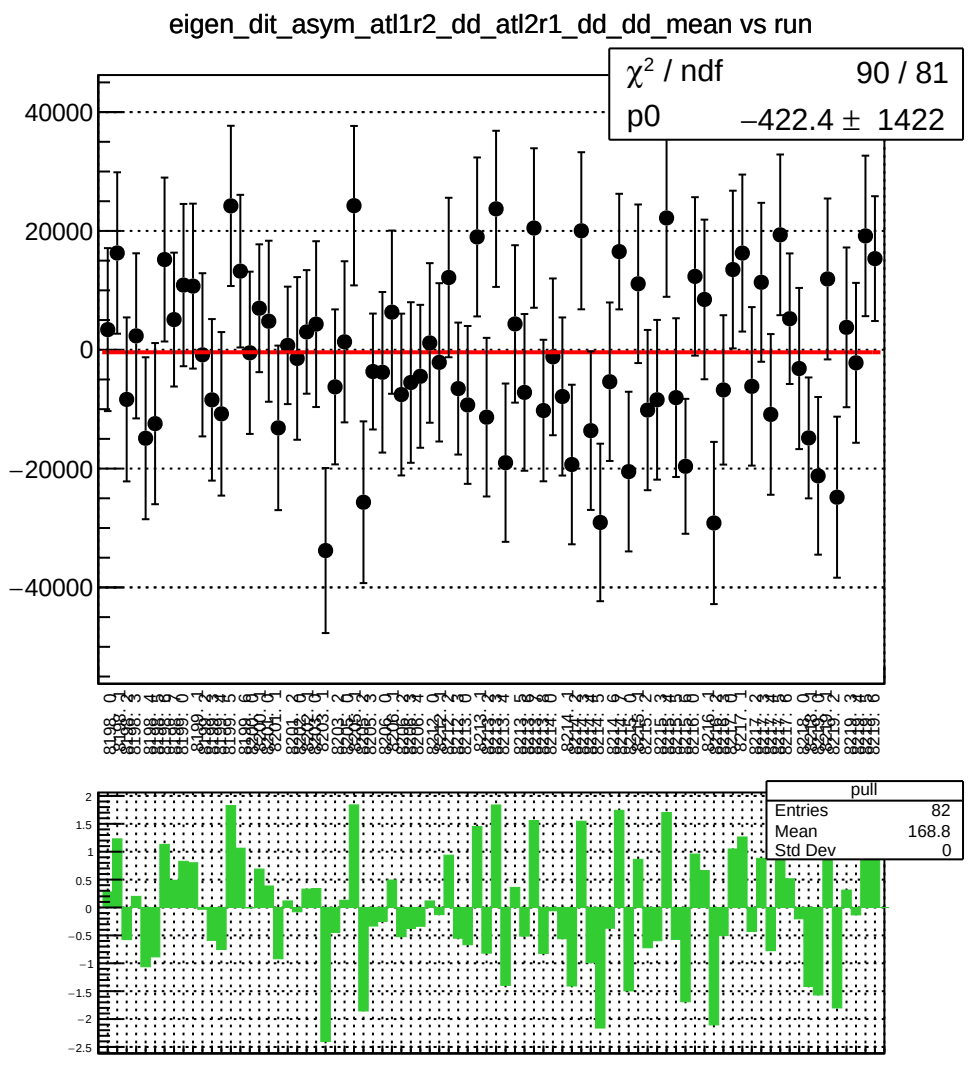

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 90 / 81
p0 −422.4 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 168.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

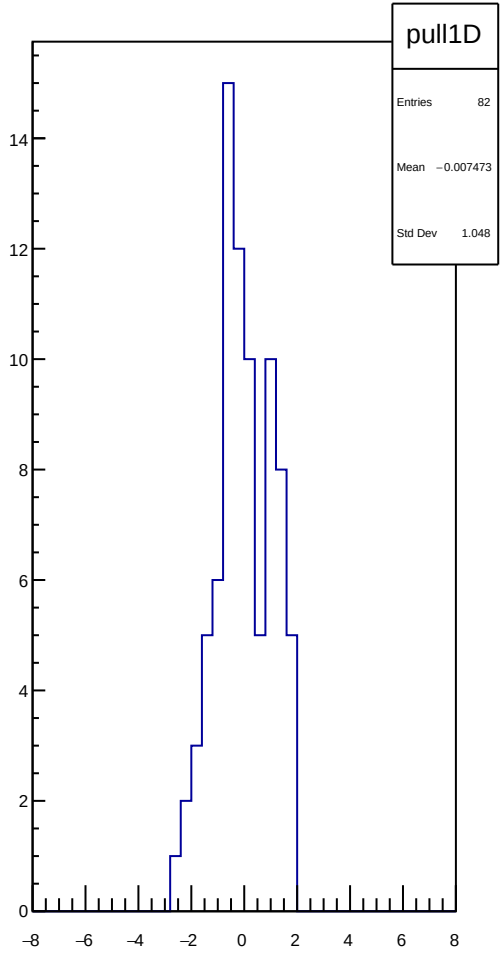

pull1D
Entries 82
Mean −0.007473
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

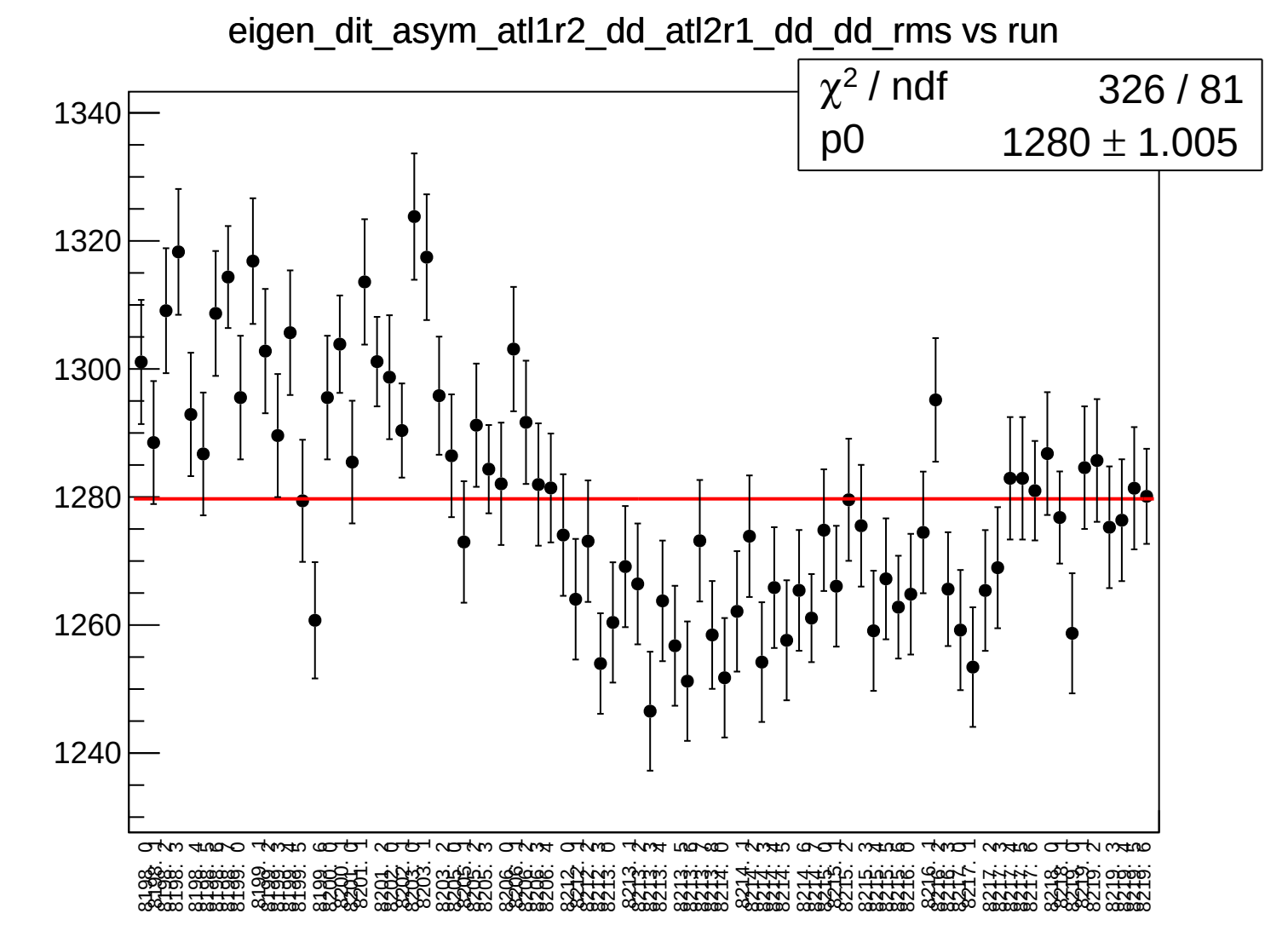

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 326 / 81
p0 1280 ± 1.005
1340
1320
1300
1280
1260
1240

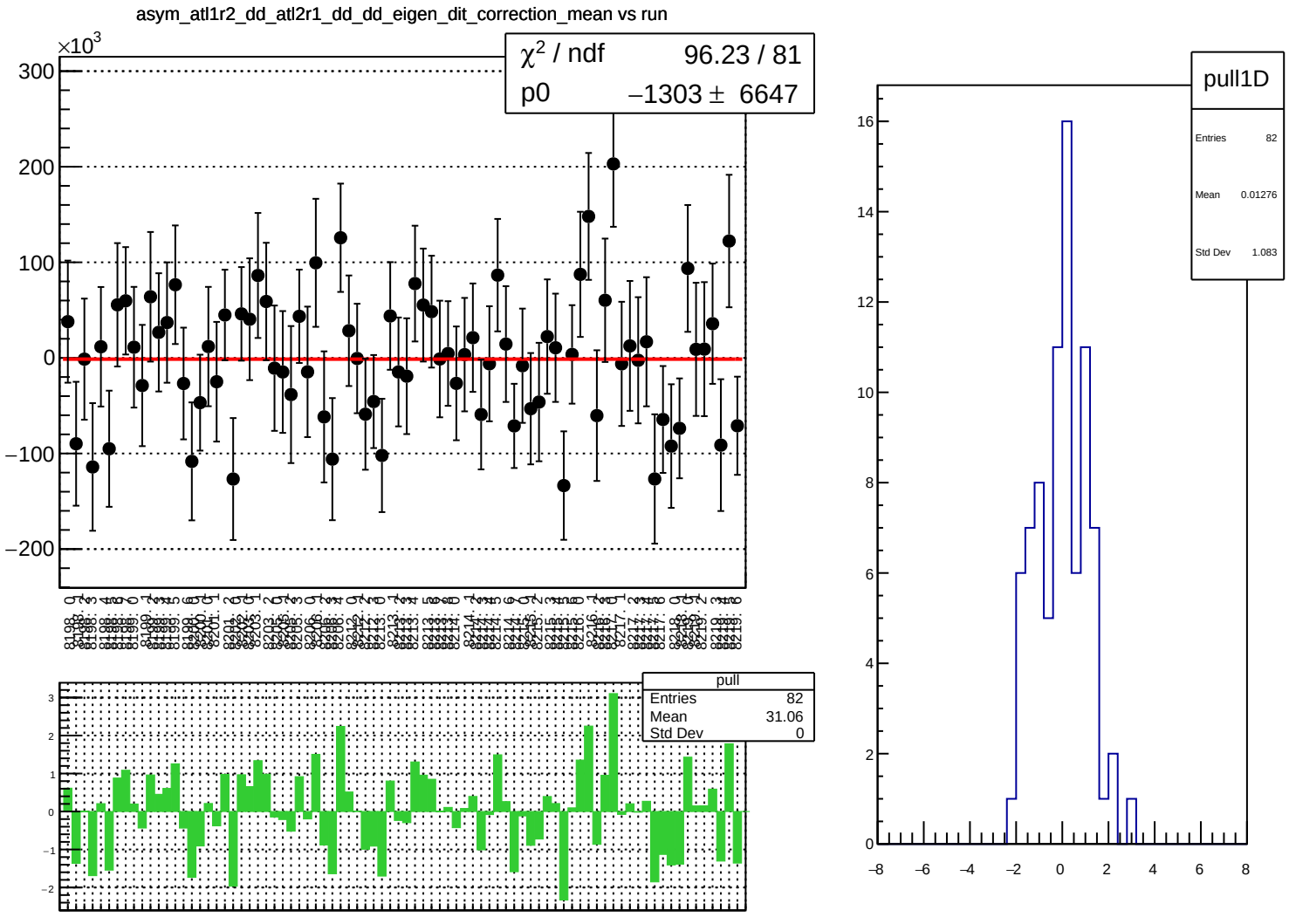

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.23 / 81
p0 −1303 ± 6647
pull
Entries 82
Mean 31.06
Std Dev 0
pull1D
Entries 82
Mean 0.01276
Std Dev 1.083

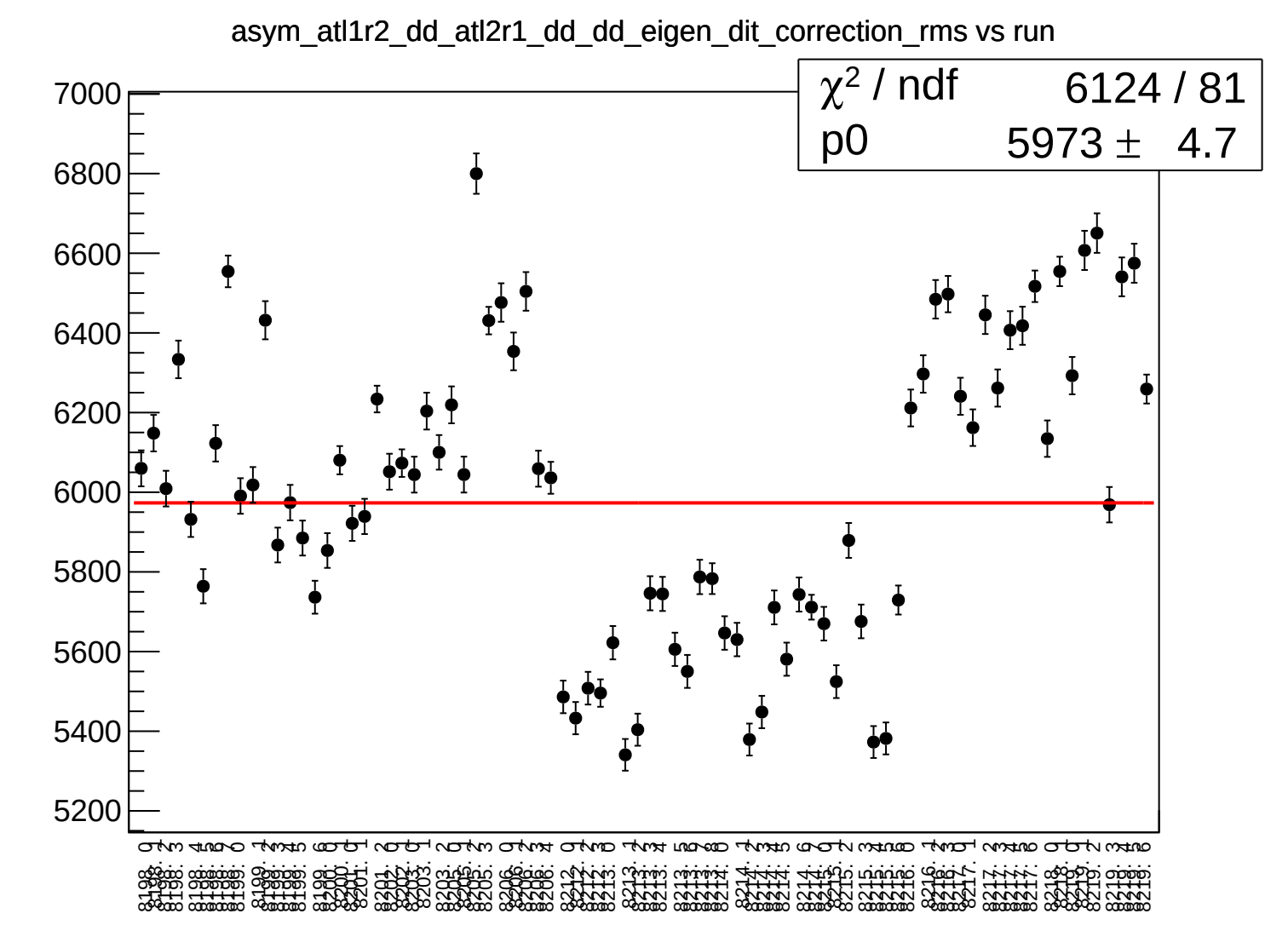

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 6124 / 81
p0 5973 ± 4.7
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

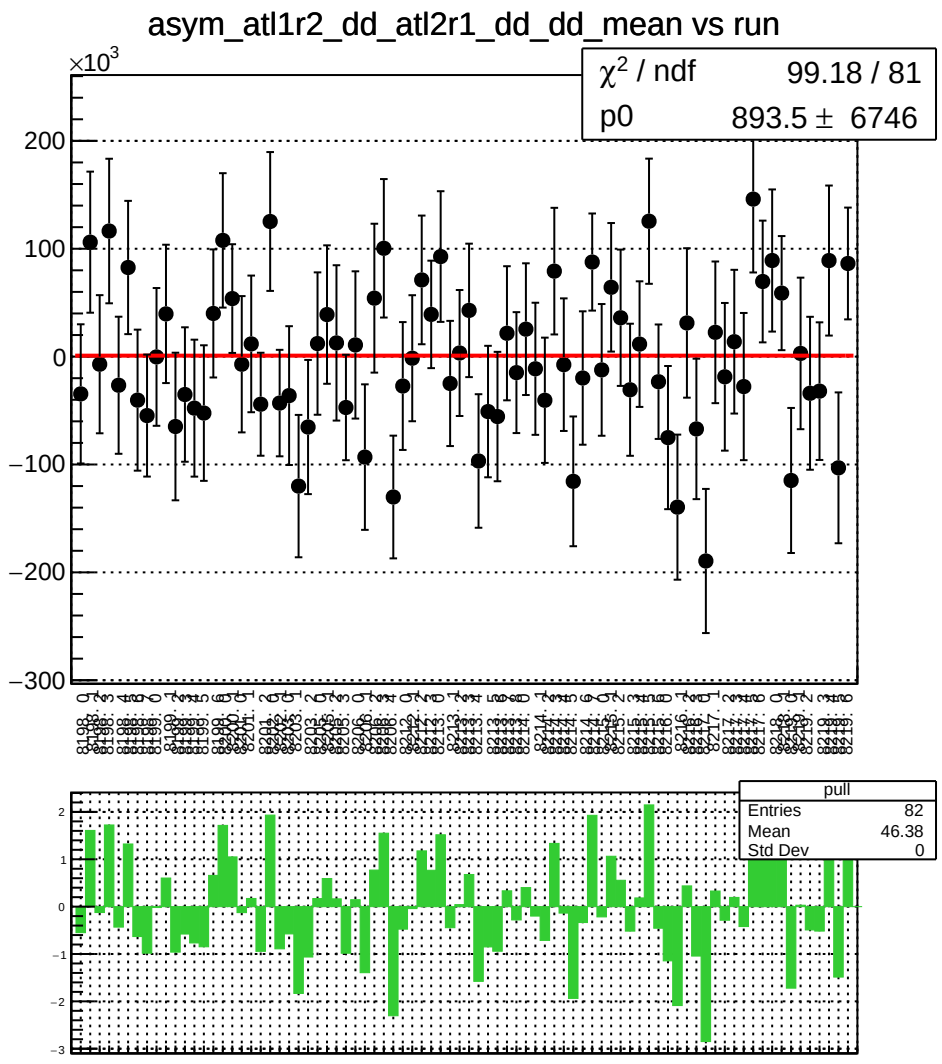

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 90 / 81
p0 −422.4 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 168.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

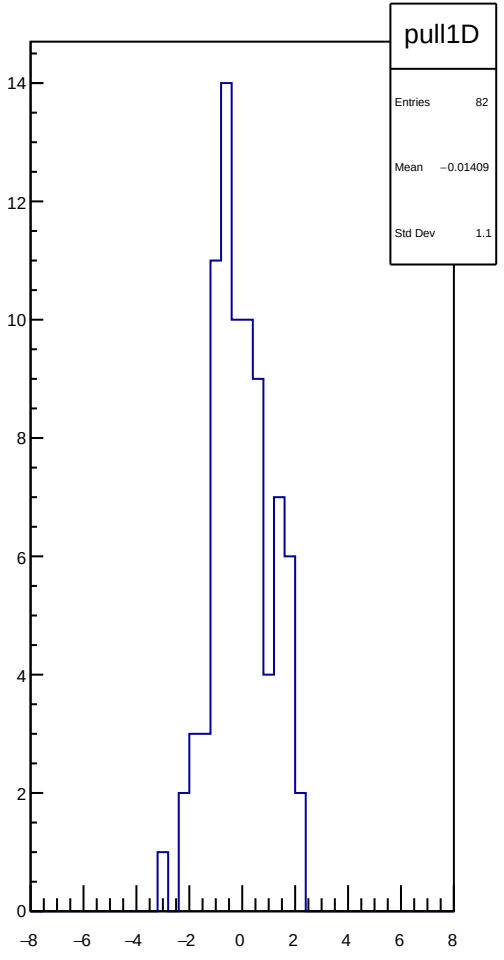

pull1D
Entries 82
Mean −0.007473
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

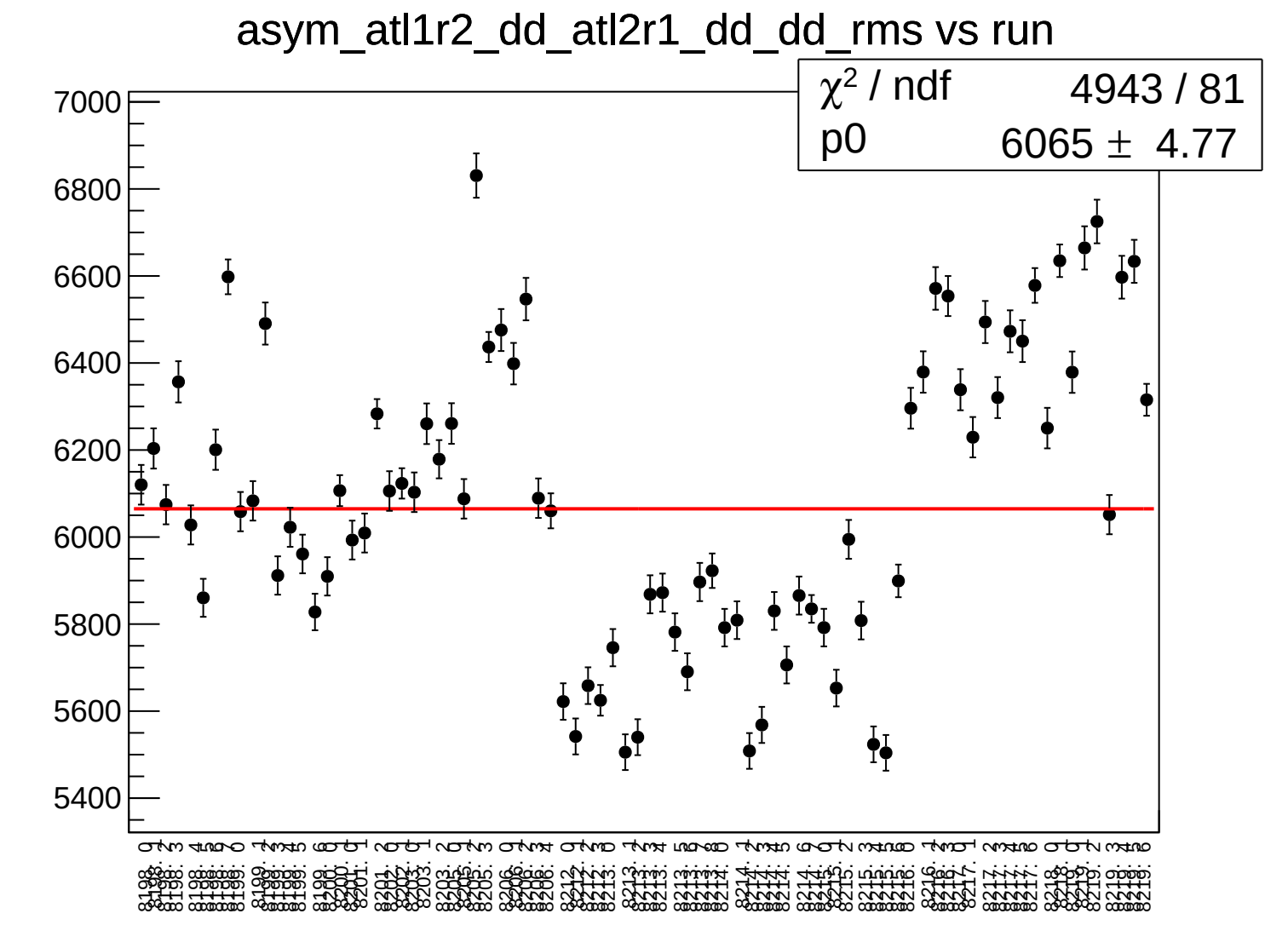

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 326 / 81
p0 1280 ± 1.005
1340
1320
1300
1280
1260
1240

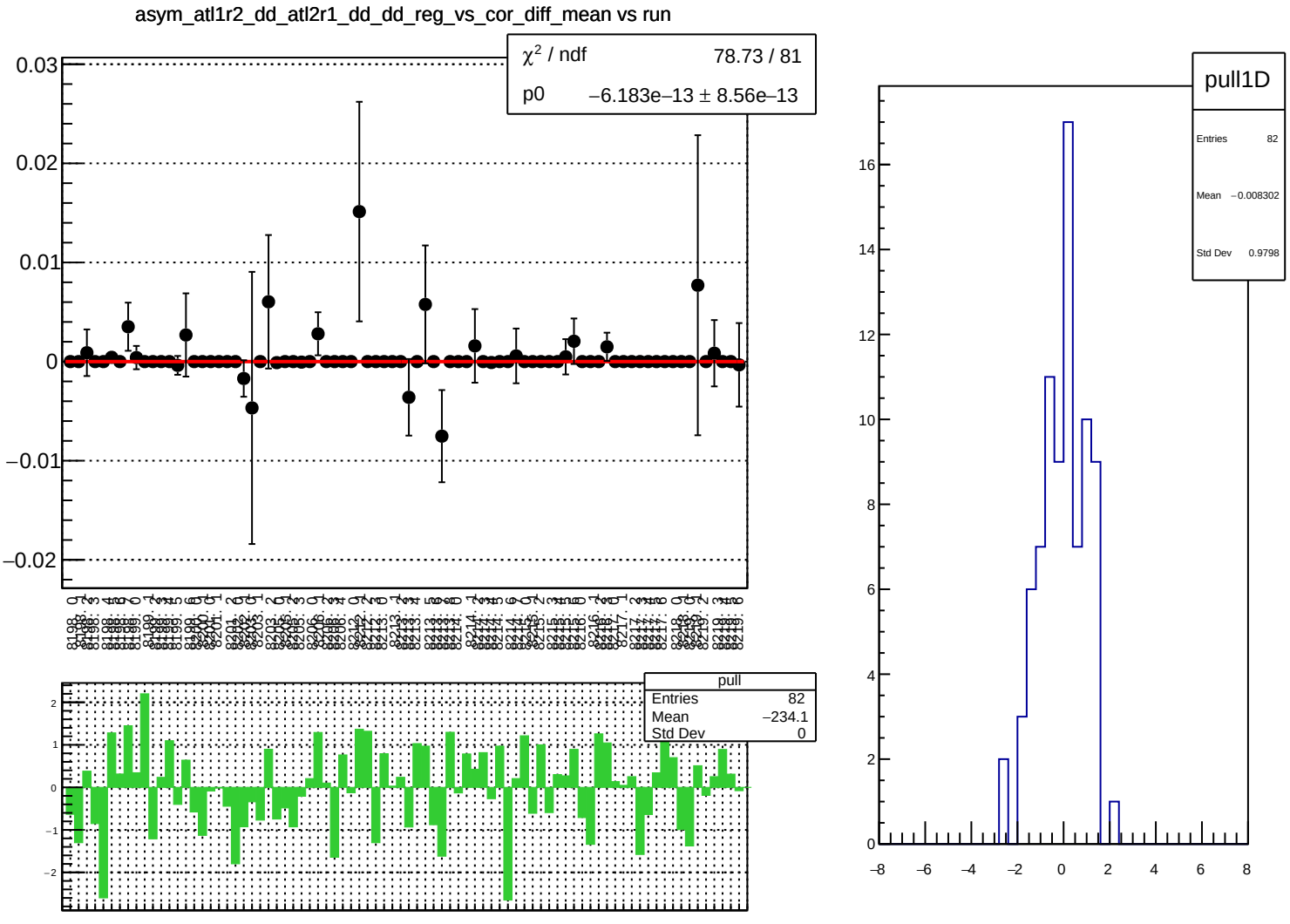

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.23 / 81
p0 −1303 ± 6647
pull
Entries 82
Mean 31.06
Std Dev 0
pull1D
Entries 82
Mean 0.01276
Std Dev 1.083

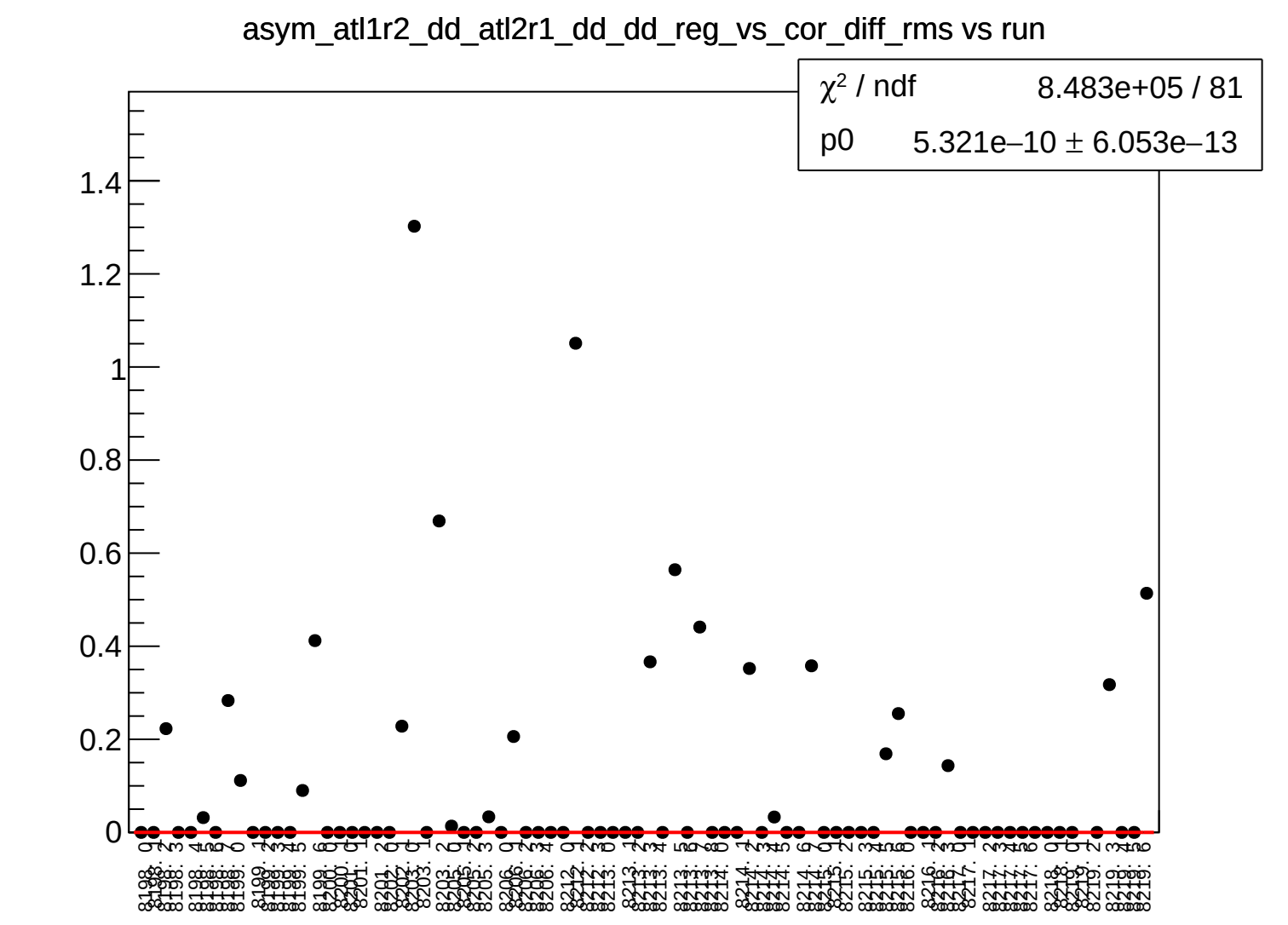

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6124 / 81
p0 5973 ± 4.7
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200


asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 99.18 / 81
p0 893.5 ± 6746
200
100
0
−100
−200
−300
pull
Entries 82
Mean 46.38
Std Dev 0
2
1
0
−1
−2
−3

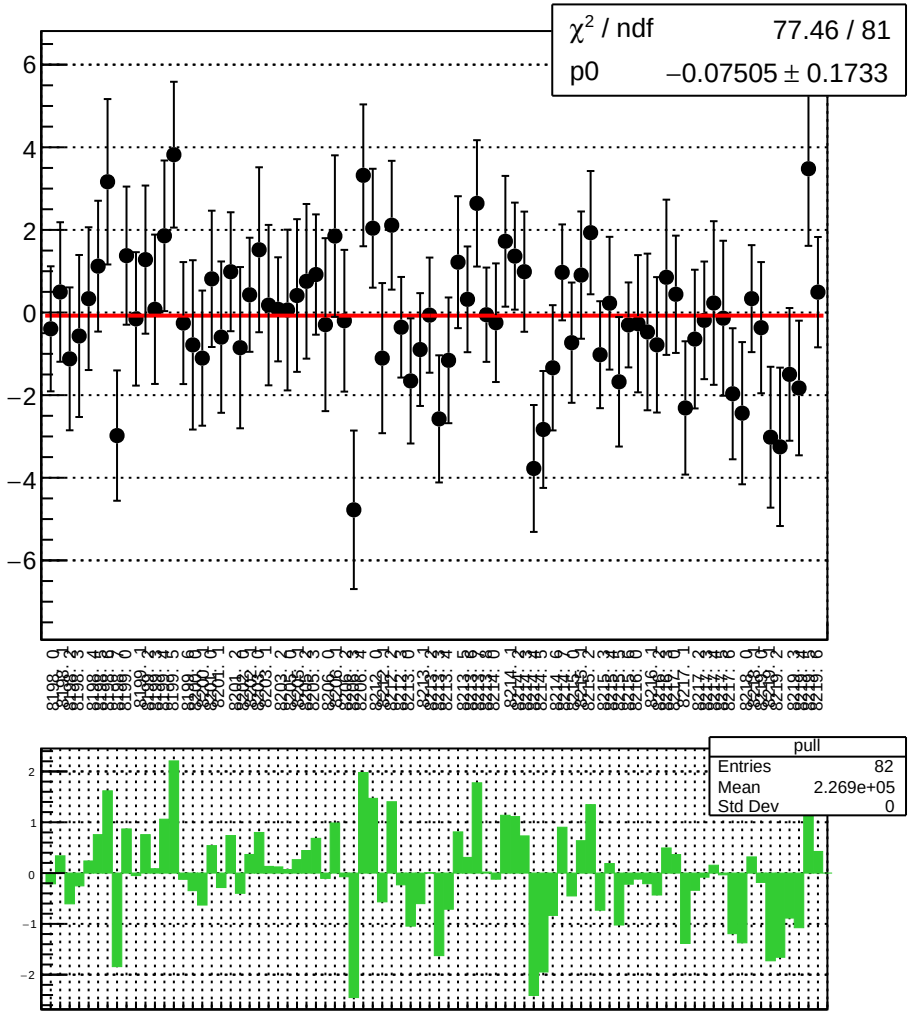

pull1D
Entries 82
Mean −0.01409
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

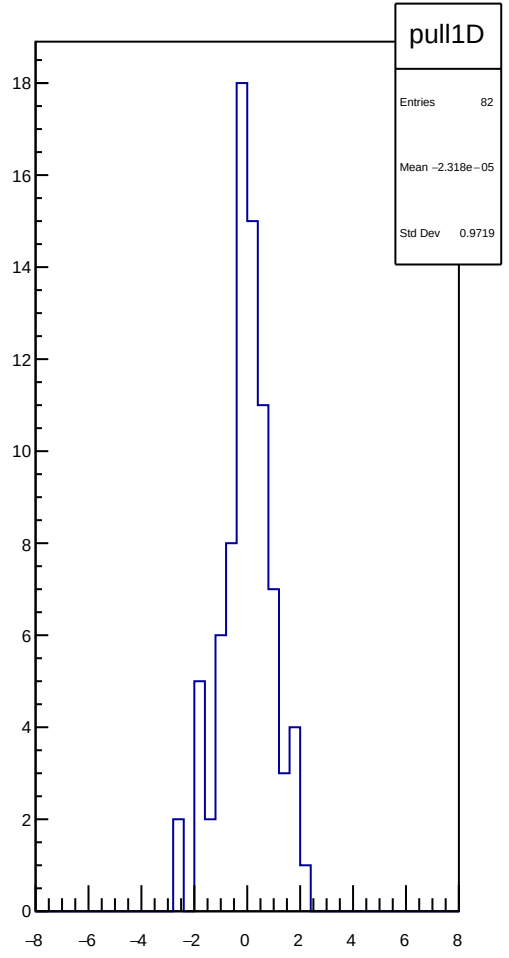

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 4943 / 81
p0 6065 ± 4.77
7000
6800
6600
6400
6200
6000
5800
5600
5400

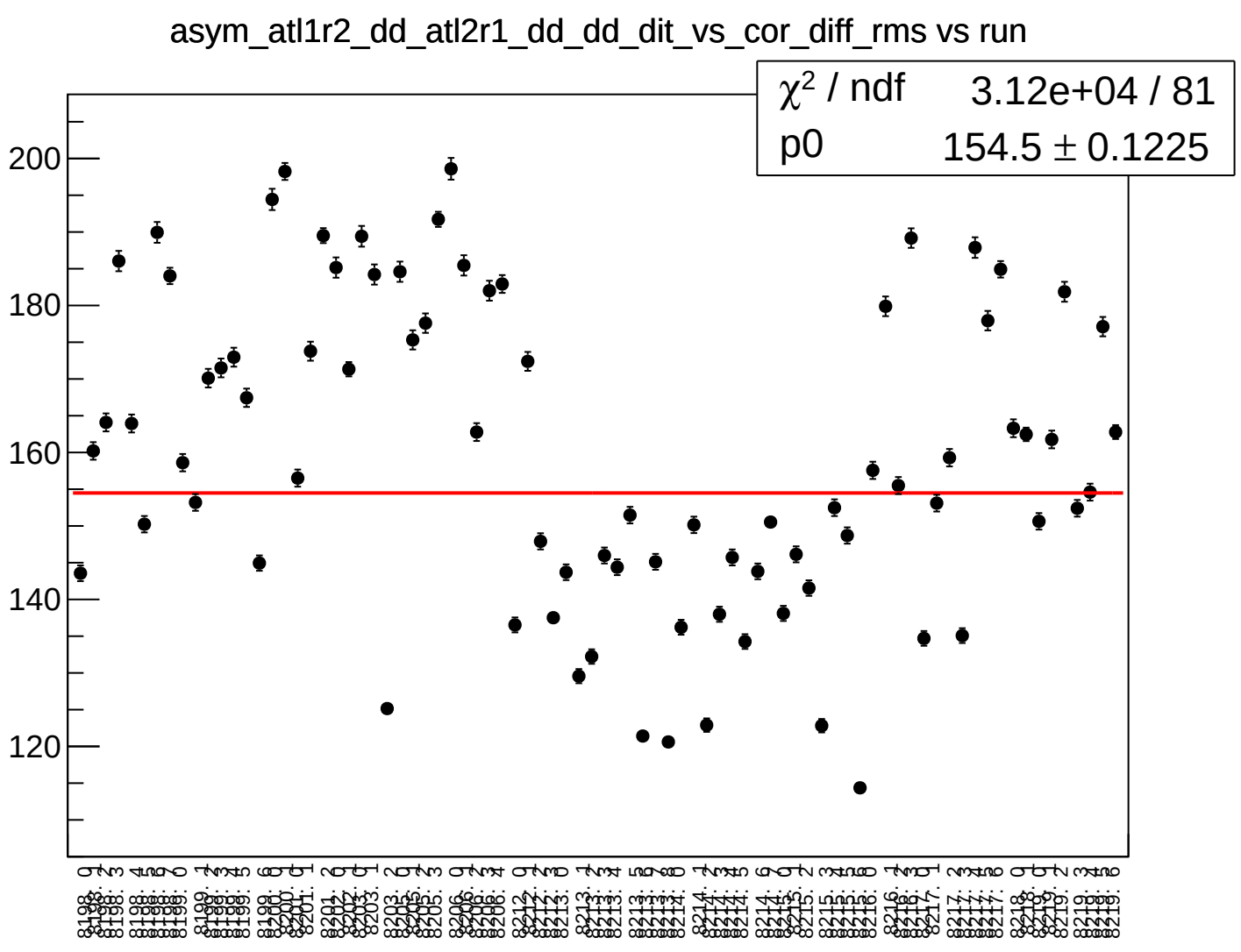

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.73 / 81
p0 −6.183e−13 ± 8.56e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean −234.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.008302
Std Dev 0.9798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

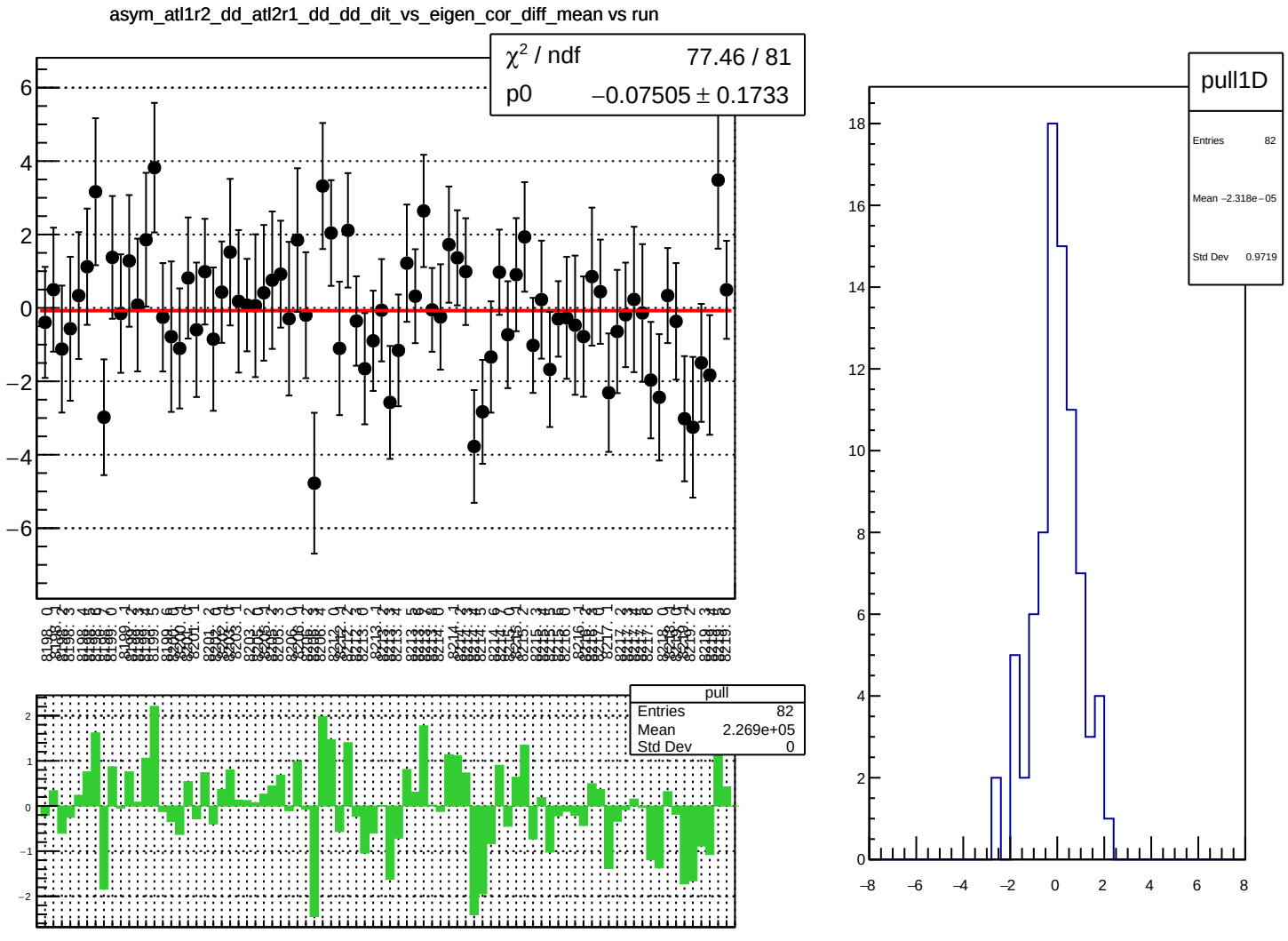

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.483e+05 / 81
p0 5.321e−10 ± 6.053e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

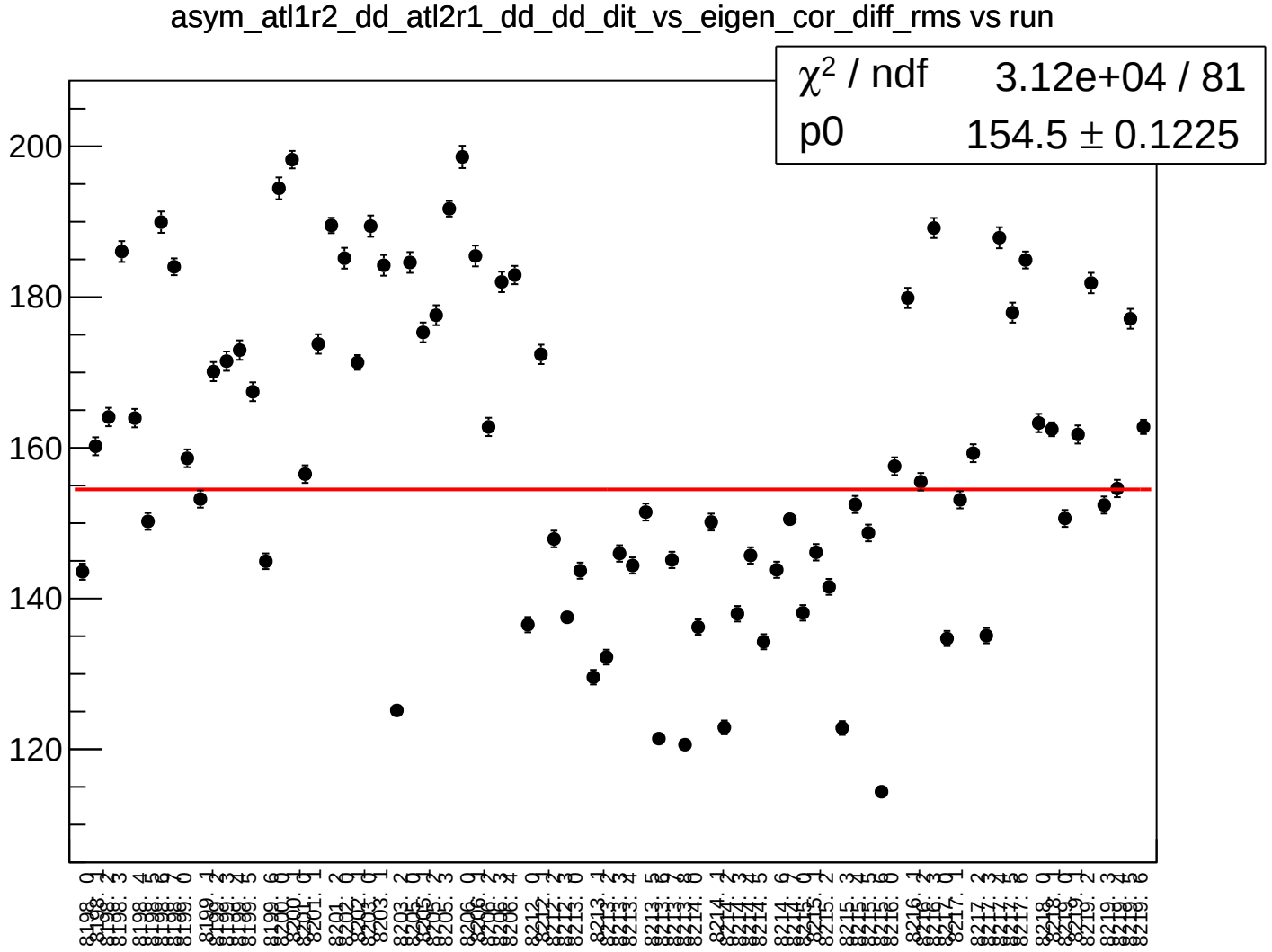
asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run

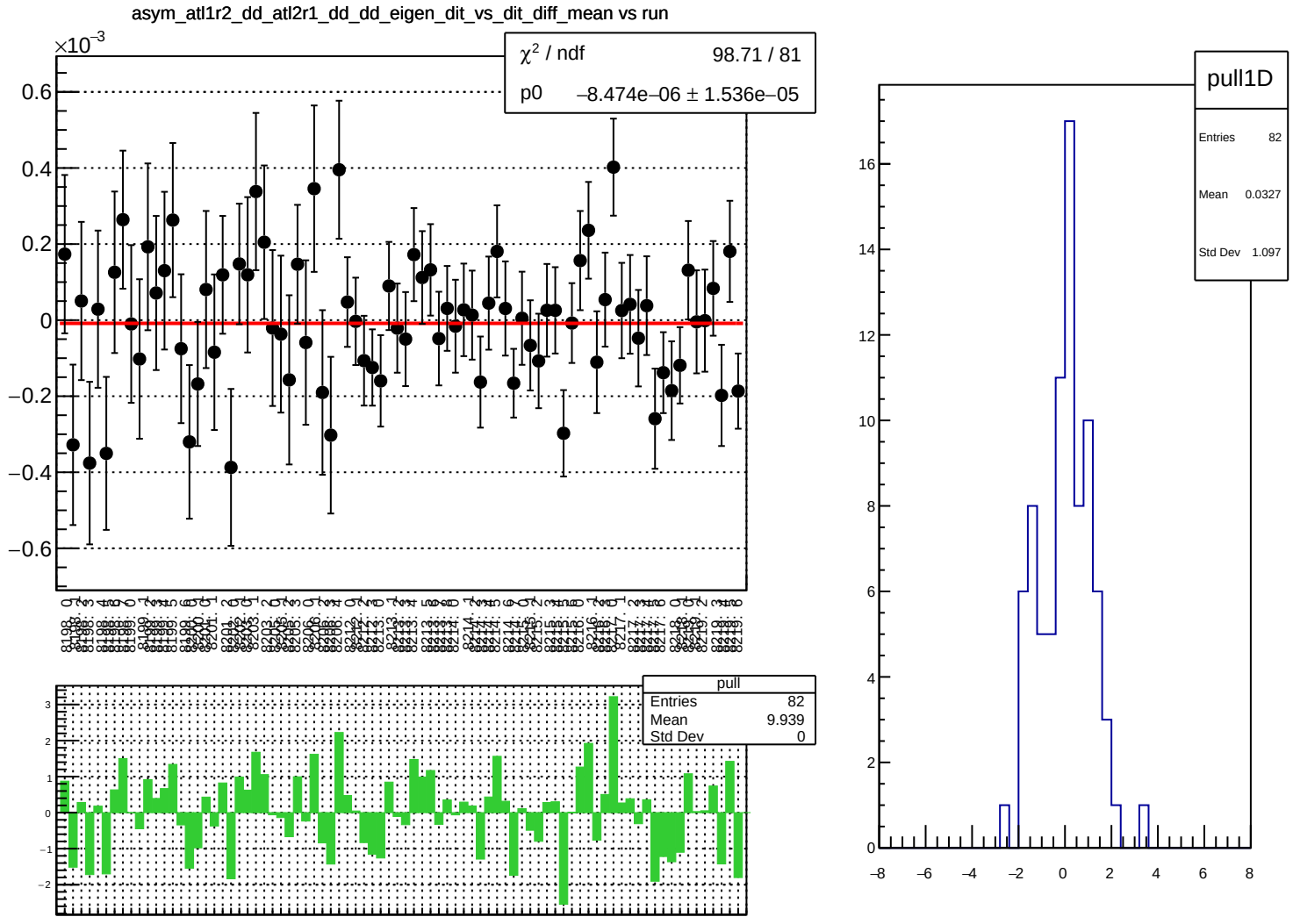


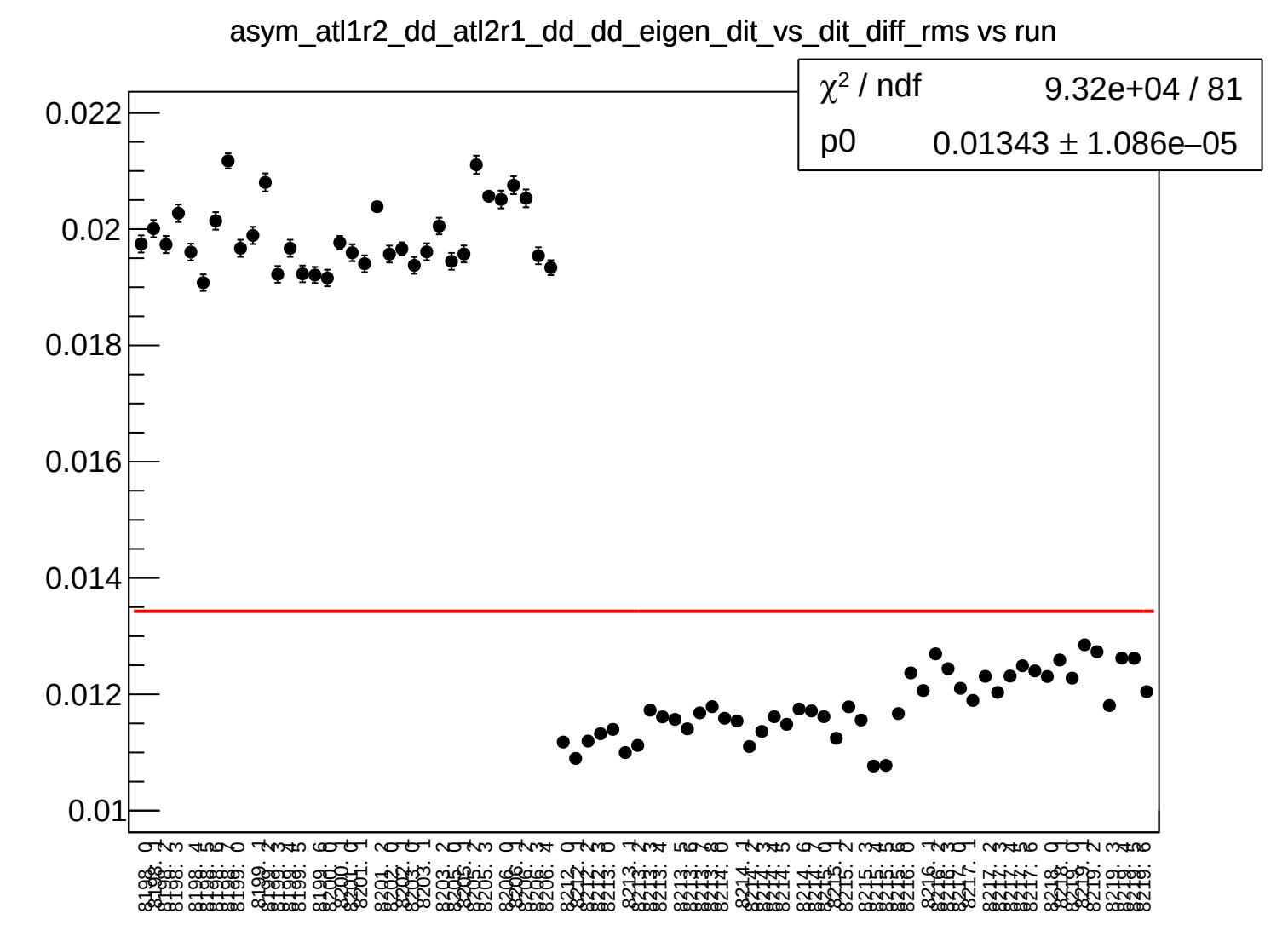



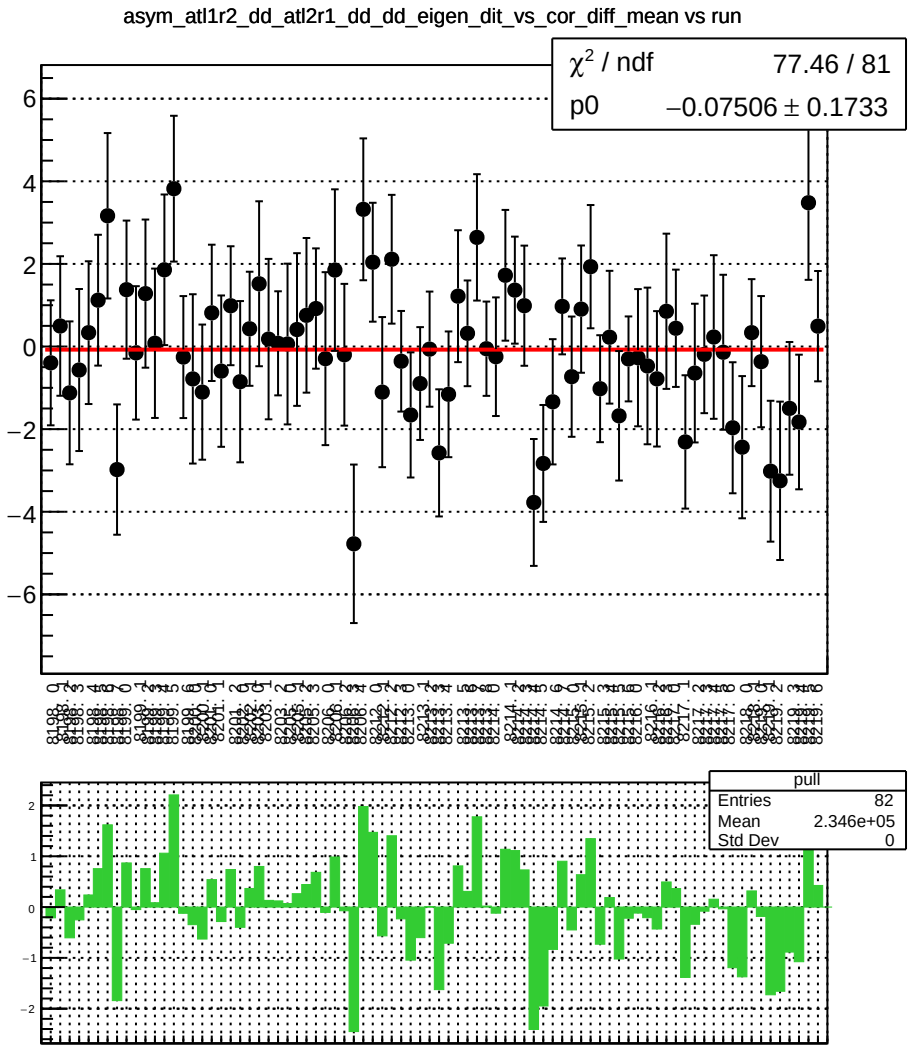

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.12e+04 / 81
p0 154.5 ± 0.1225
200
180
160
140
120

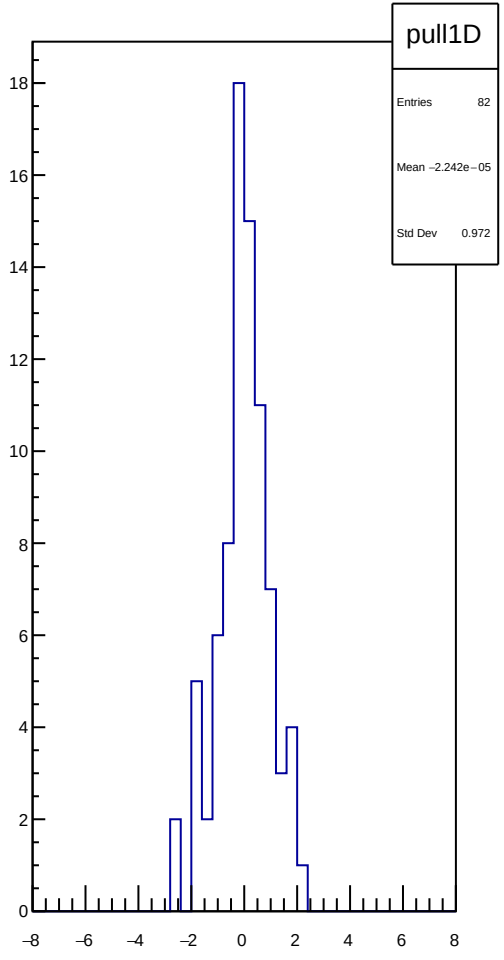

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.46 / 81
p0 −0.07505 ± 0.1733
pull
Entries 82
Mean 2.269e+05
Std Dev 0
pull1D
Entries 82
Mean −2.318e−05
Std Dev 0.9719

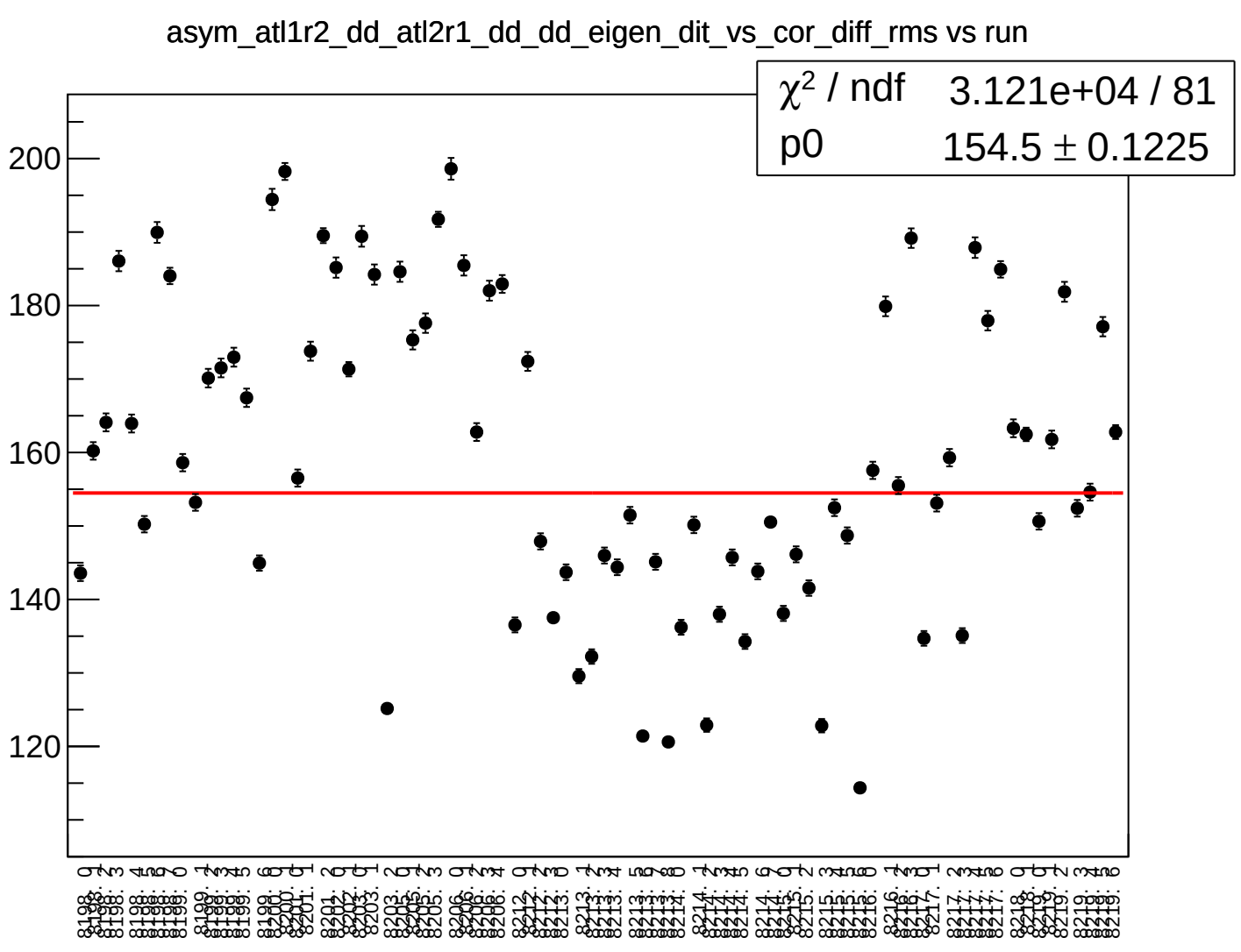

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.12e+04 / 81
p0 154.5 ± 0.1225
200
180
160
140
120

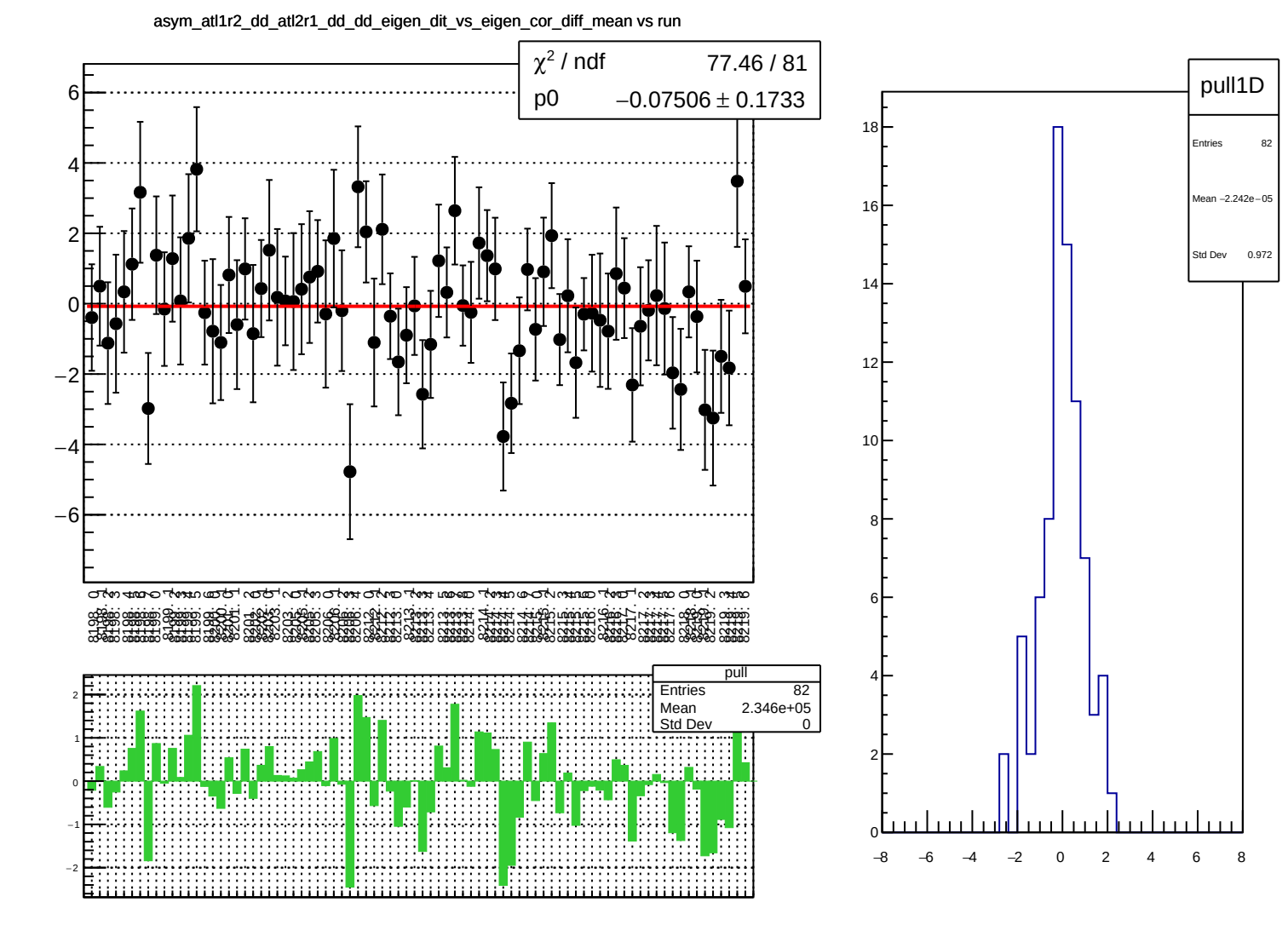

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.71 / 81
p0 −8.474e−06 ± 1.536e−05
pull
Entries 82
Mean 9.939
Std Dev 0
pull1D
Entries 82
Mean 0.0327
Std Dev 1.097

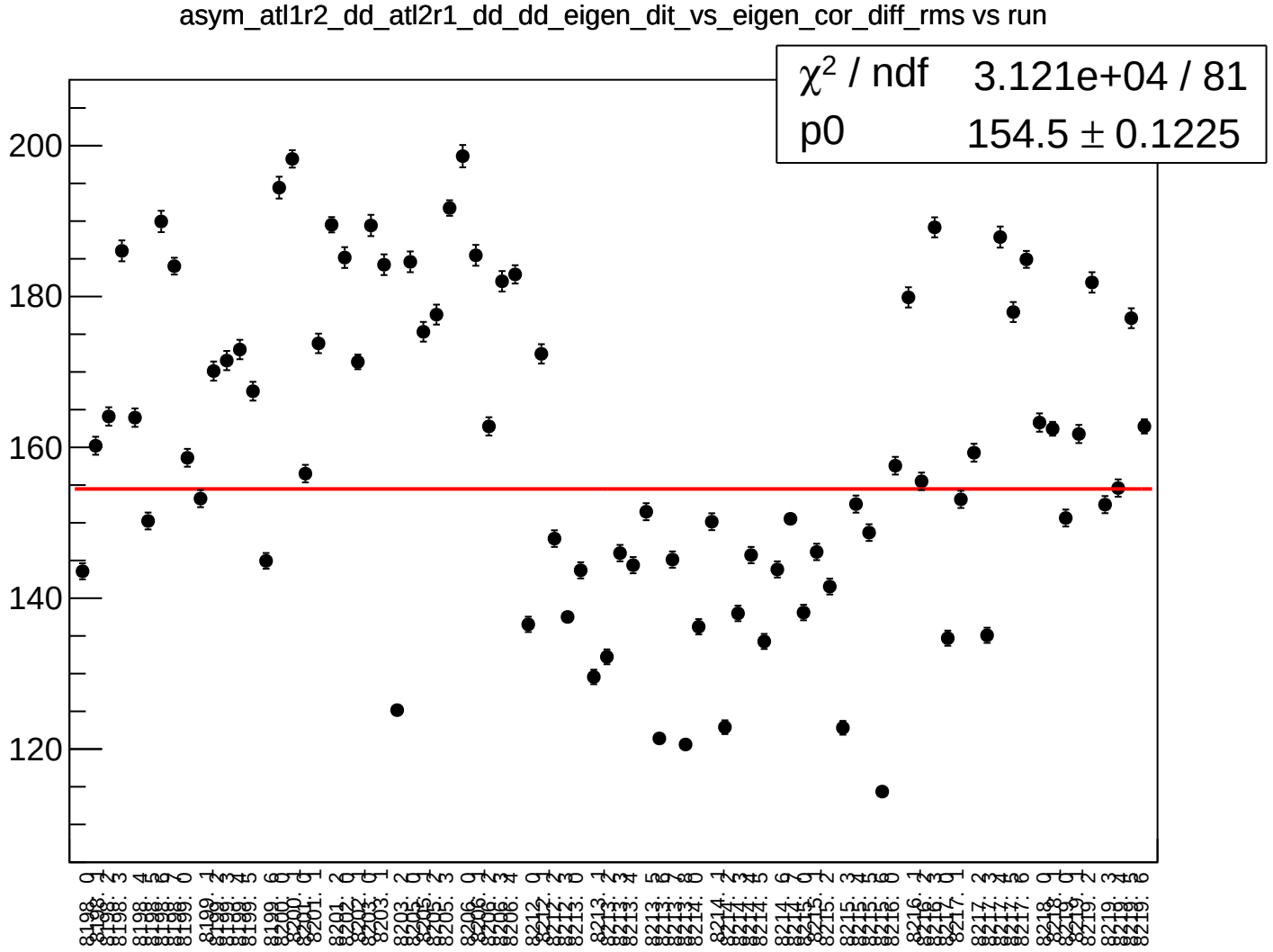

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.32e+04 / 81
p0 0.01343 ± 1.086e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

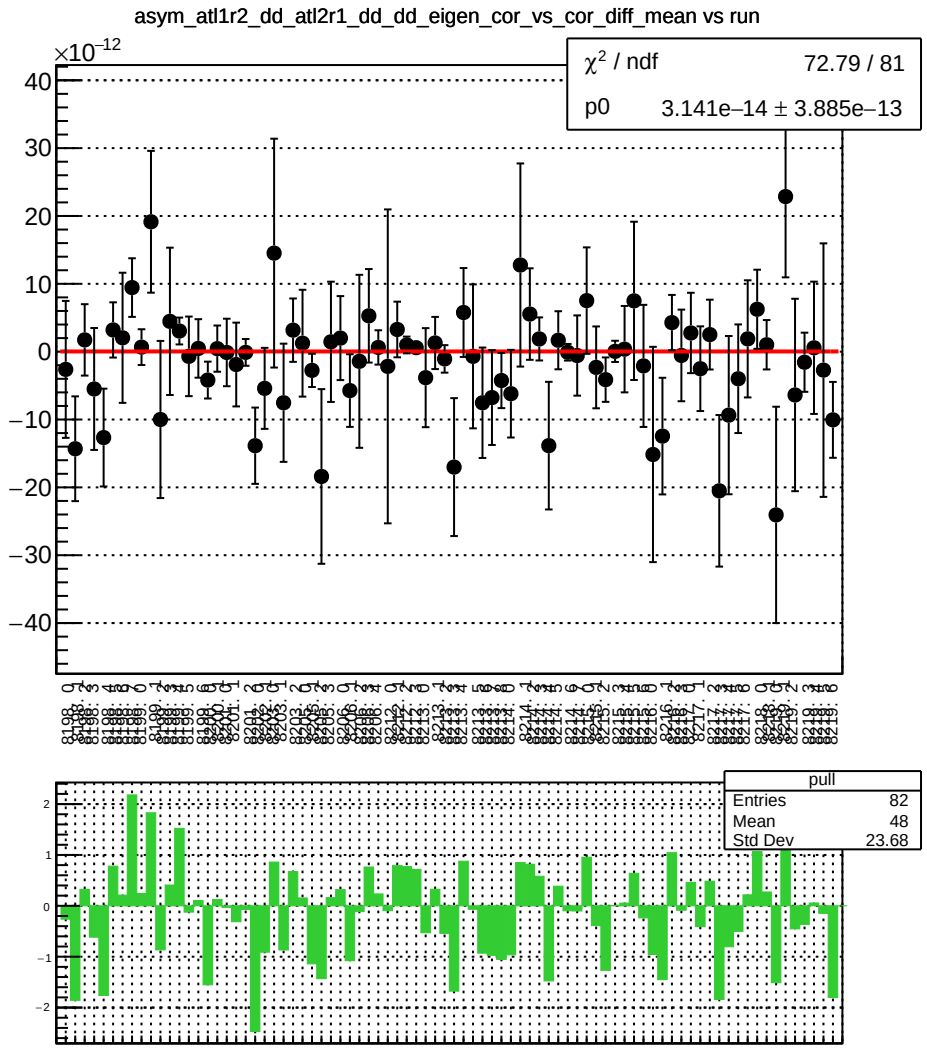

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.46 / 81
p0 −0.07506 ± 0.1733
pull
Entries 82
Mean 2.346e+05
Std Dev 0

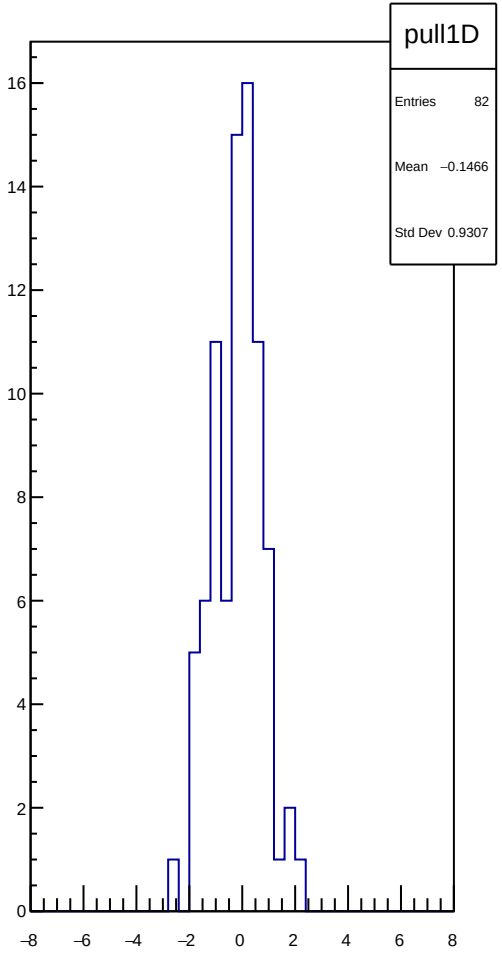

pull1D
Entries 82
Mean −2.242e−05
Std Dev 0.972

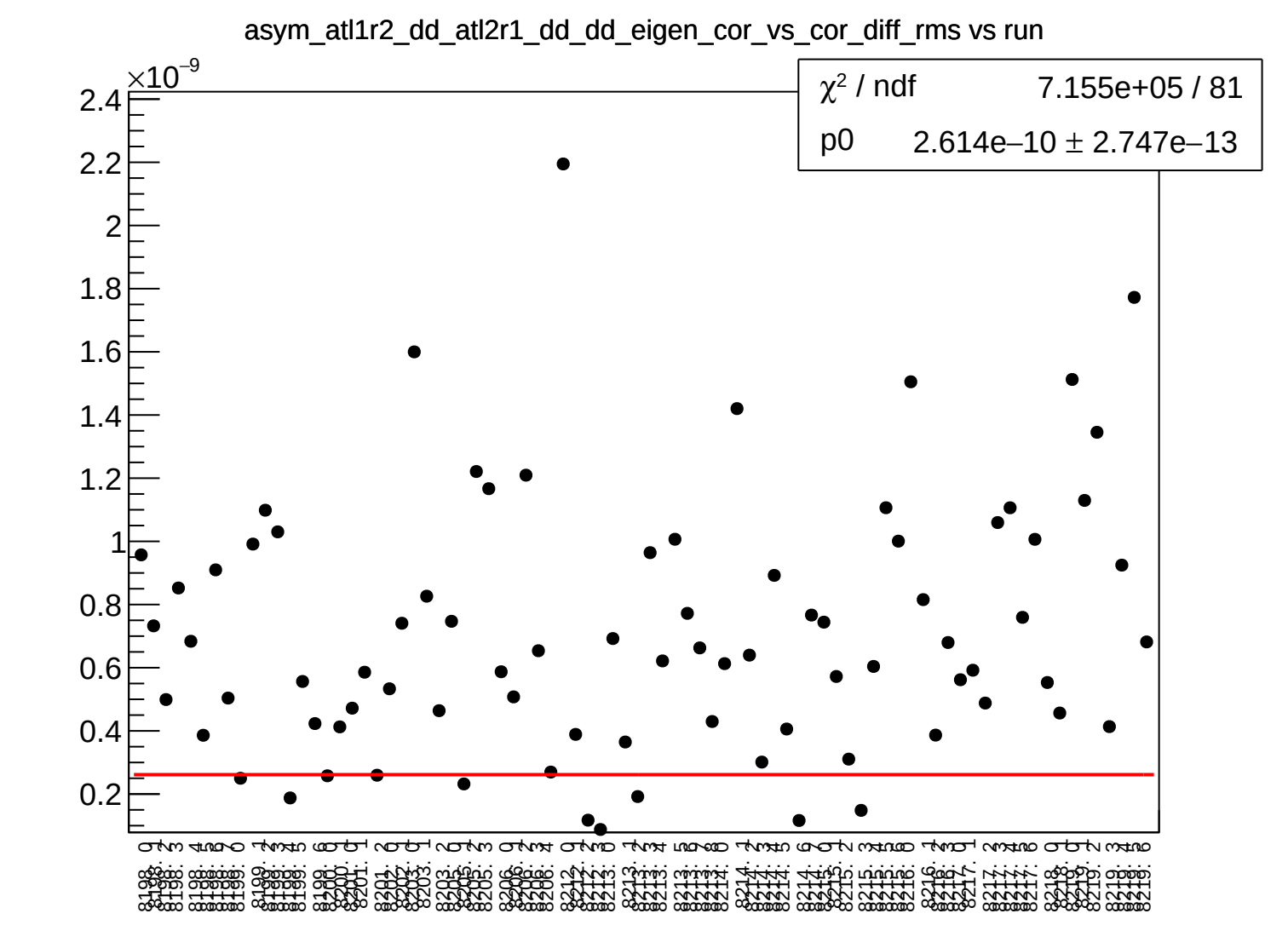

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.121e+04 / 81
p0 154.5 ± 0.1225
200
180
160
140
120

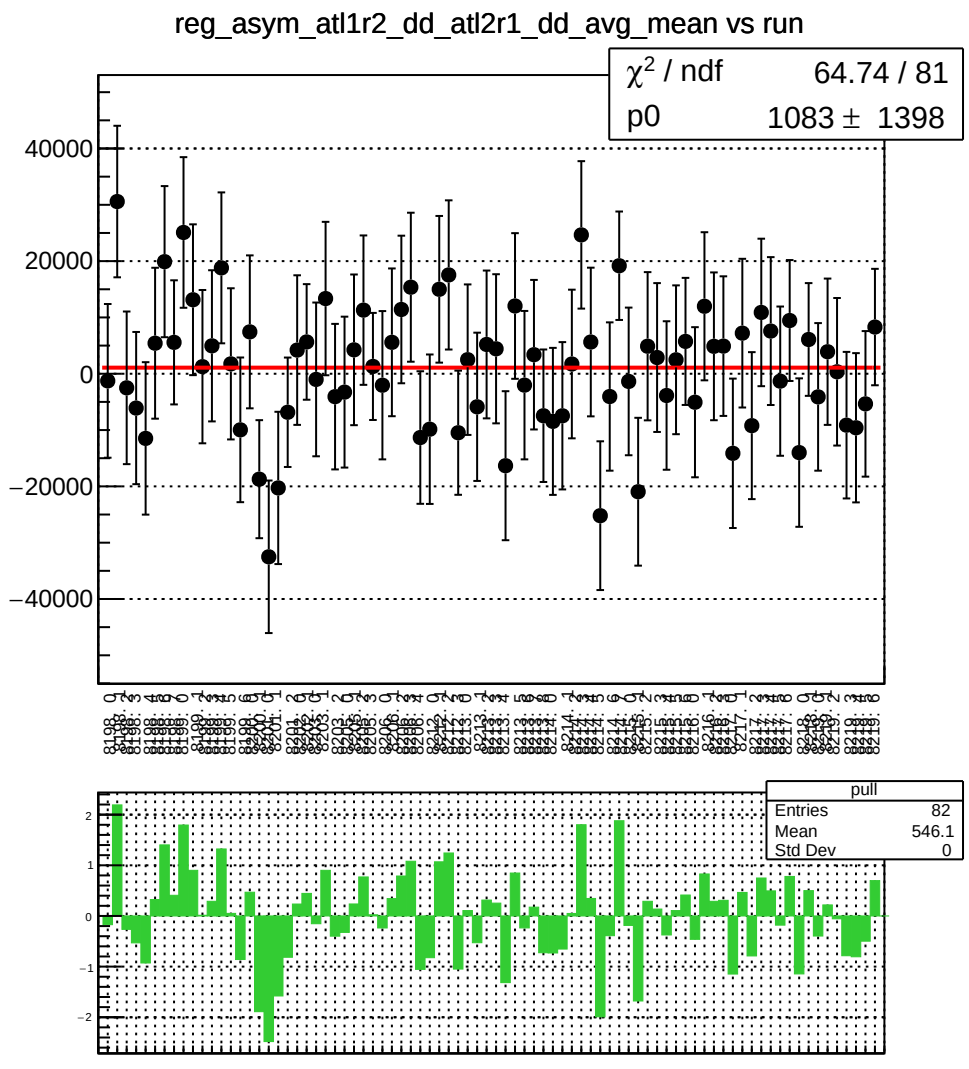

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.46 / 81
p0 −0.07506 ± 0.1733
pull
Entries 82
Mean 2.346e+05
Std Dev 0
pull1D
Entries 82
Mean −2.242e−05
Std Dev 0.972

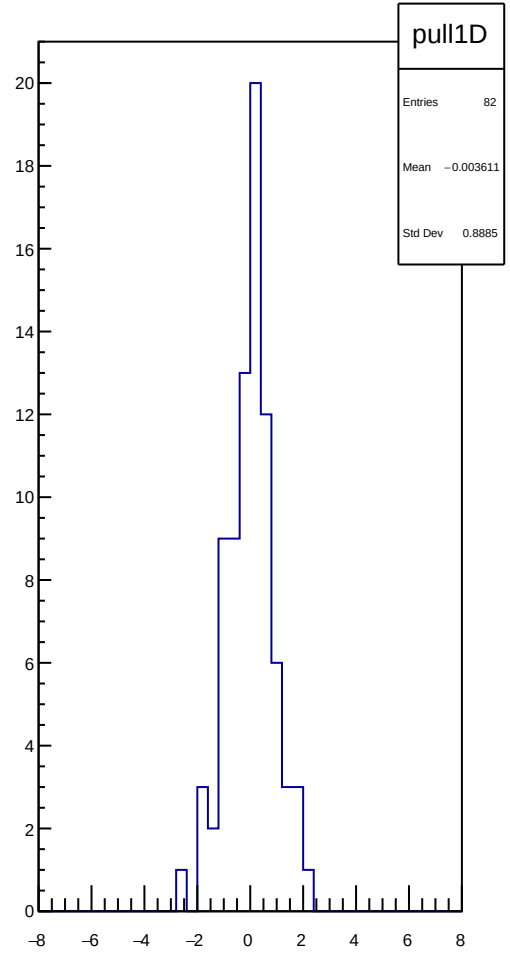

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.121e+04 / 81
p0 154.5 ± 0.1225
200
180
160
140
120

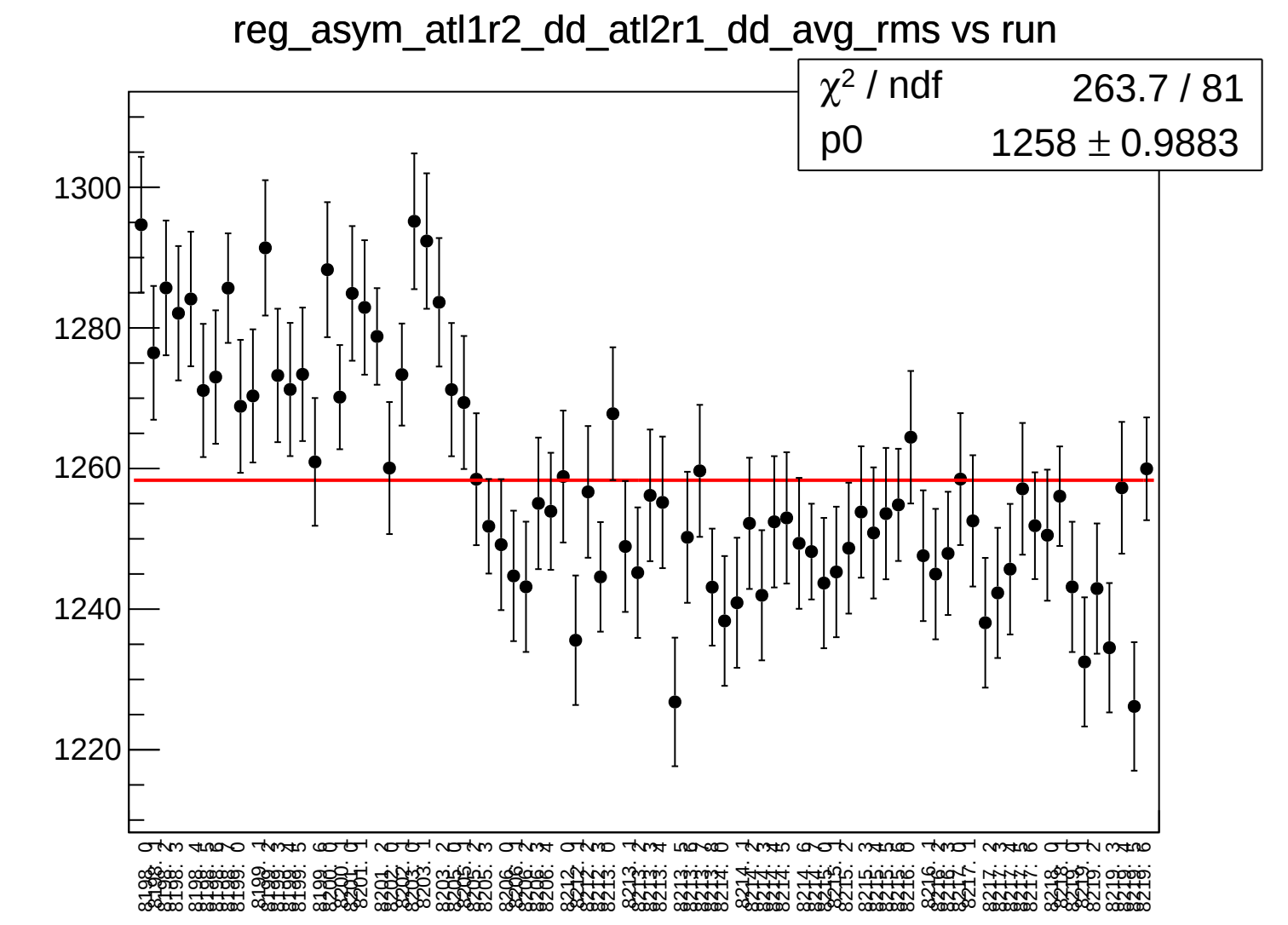

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.79 / 81
p0 3.141e−14 ± 3.885e−13
pull
Entries 82
Mean 48
Std Dev 23.68

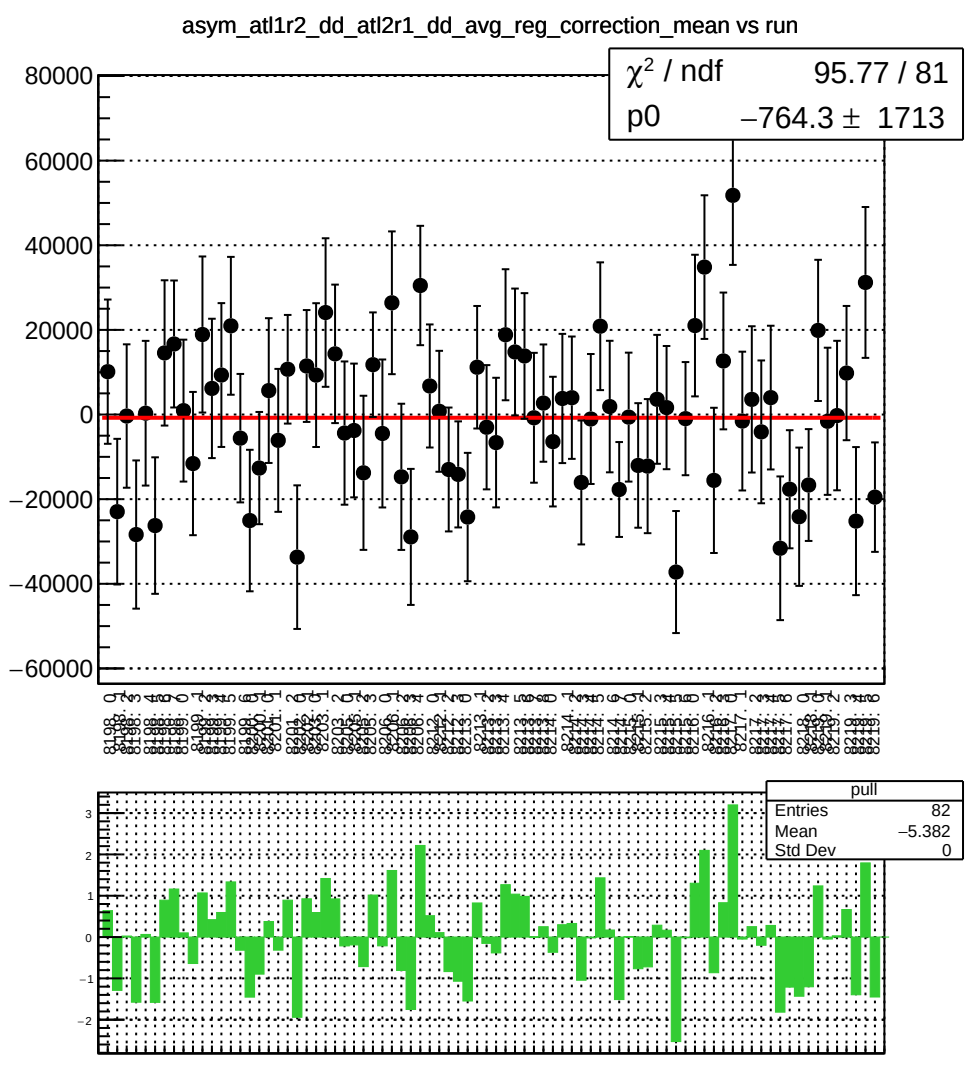

pull1D
Entries 82
Mean −0.1466
Std Dev 0.9307

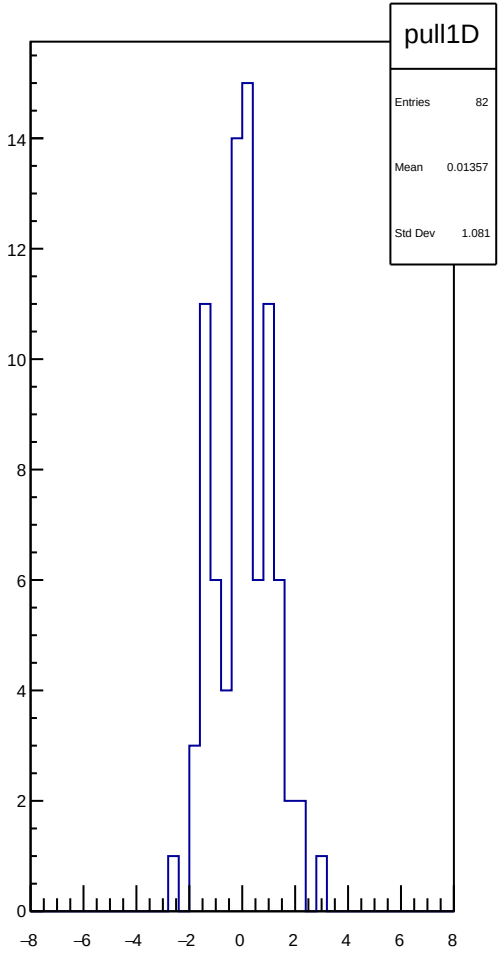

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.155e+05 / 81
p0 2.614e−10 ± 2.747e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

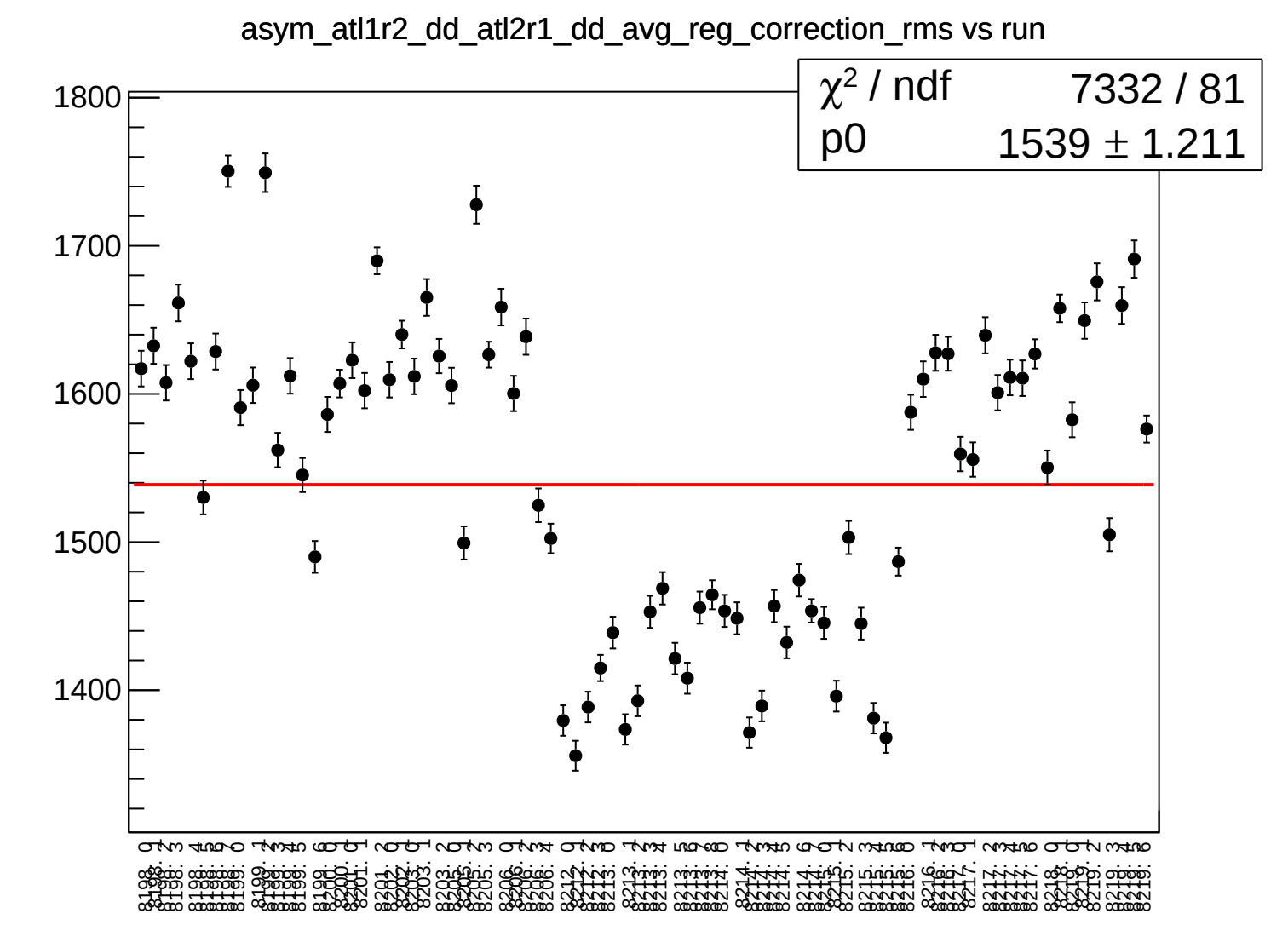

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 64.74 / 81
p0 1083 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 546.1
Std Dev 0
2
1
0
−1
−2

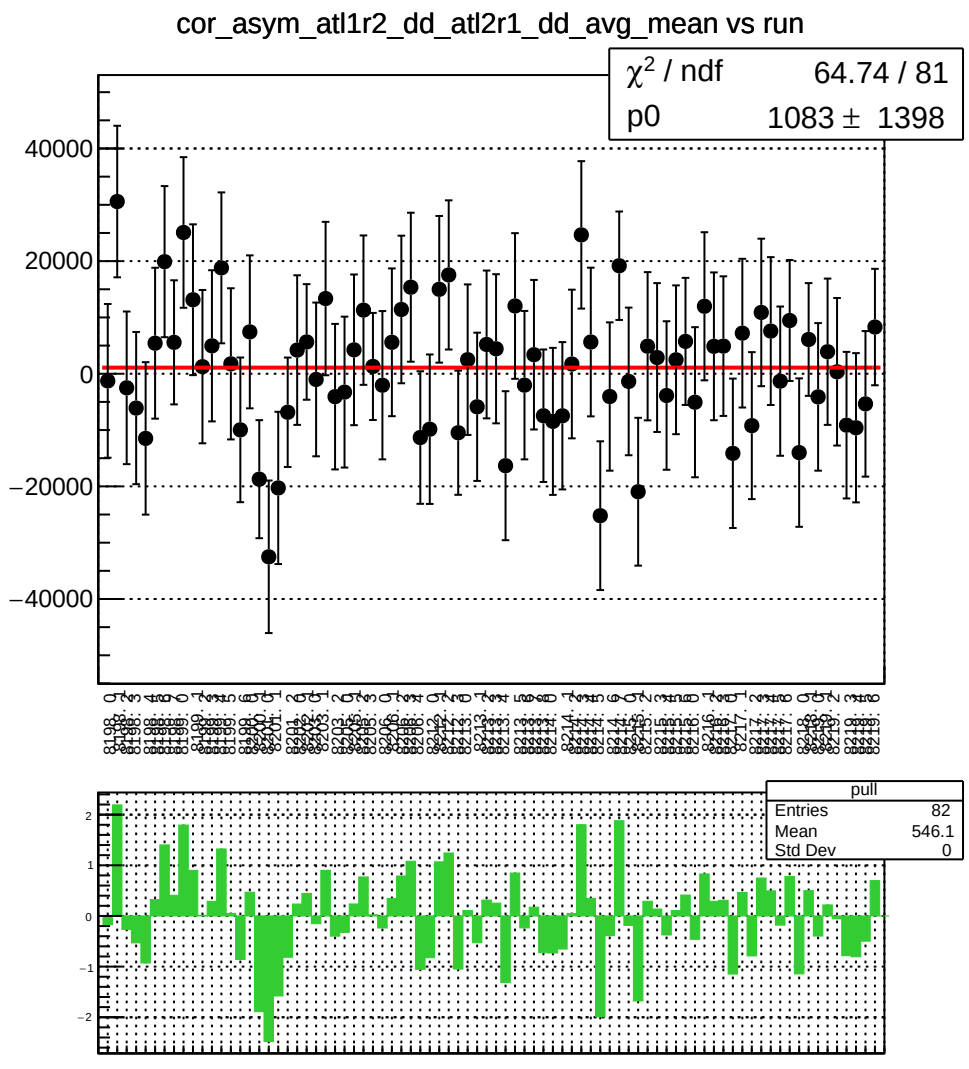

pull1D
Entries 82
Mean −0.003611
Std Dev 0.8885
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

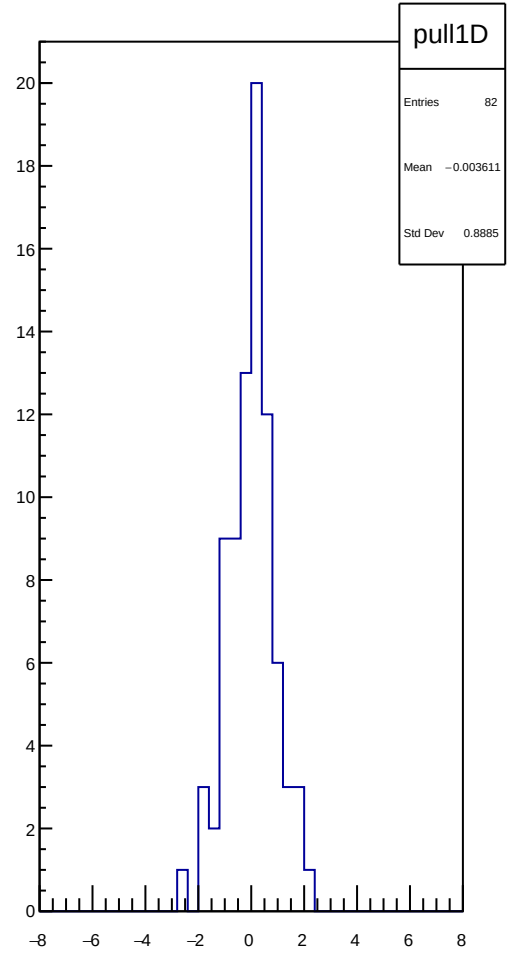

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 263.7 / 81
p0 1258 ± 0.9883
1300
1280
1260
1240
1220

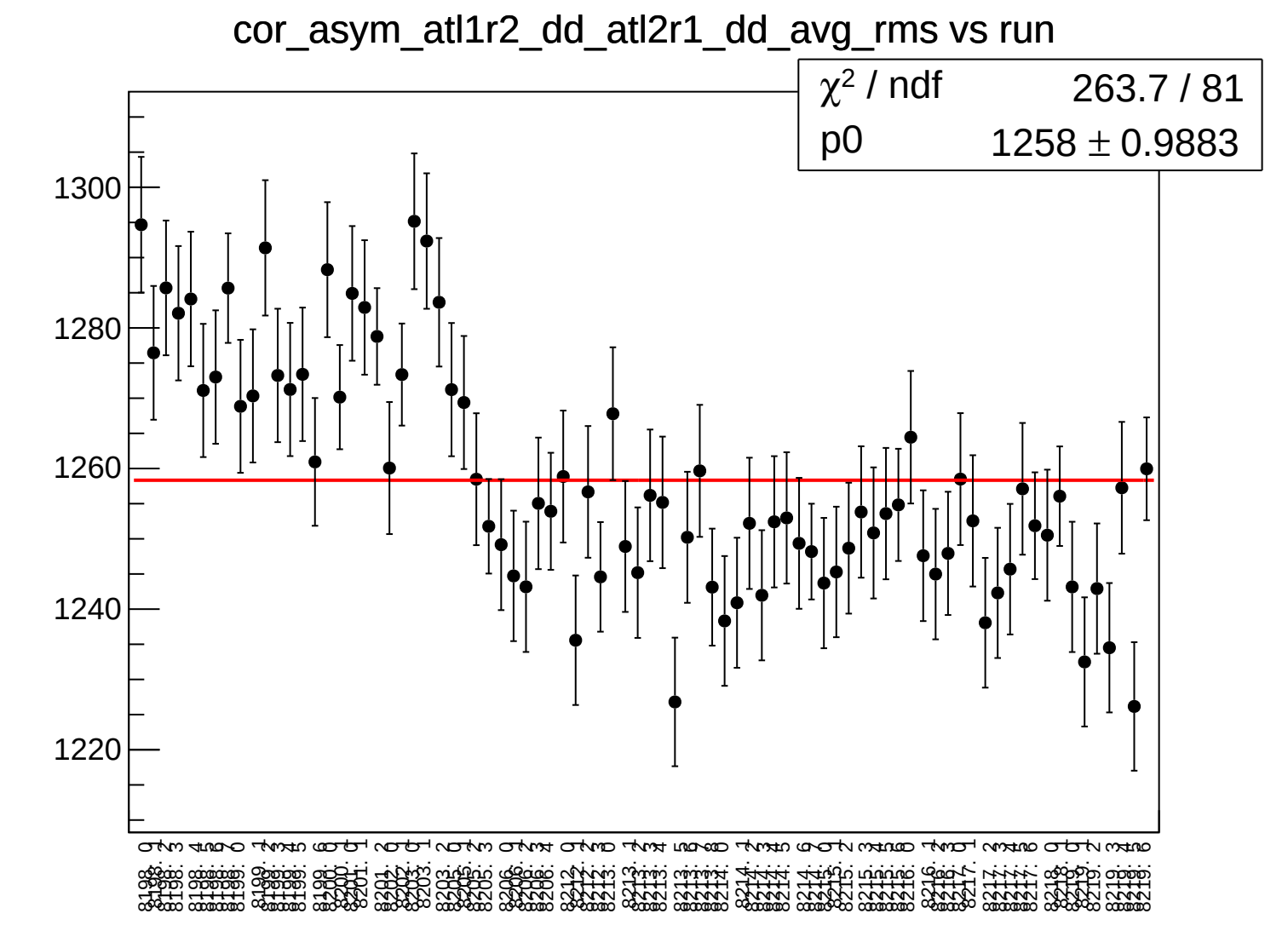

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 95.77 / 81
p0 −764.3 ± 1713
pull
Entries 82
Mean −5.382
Std Dev 0

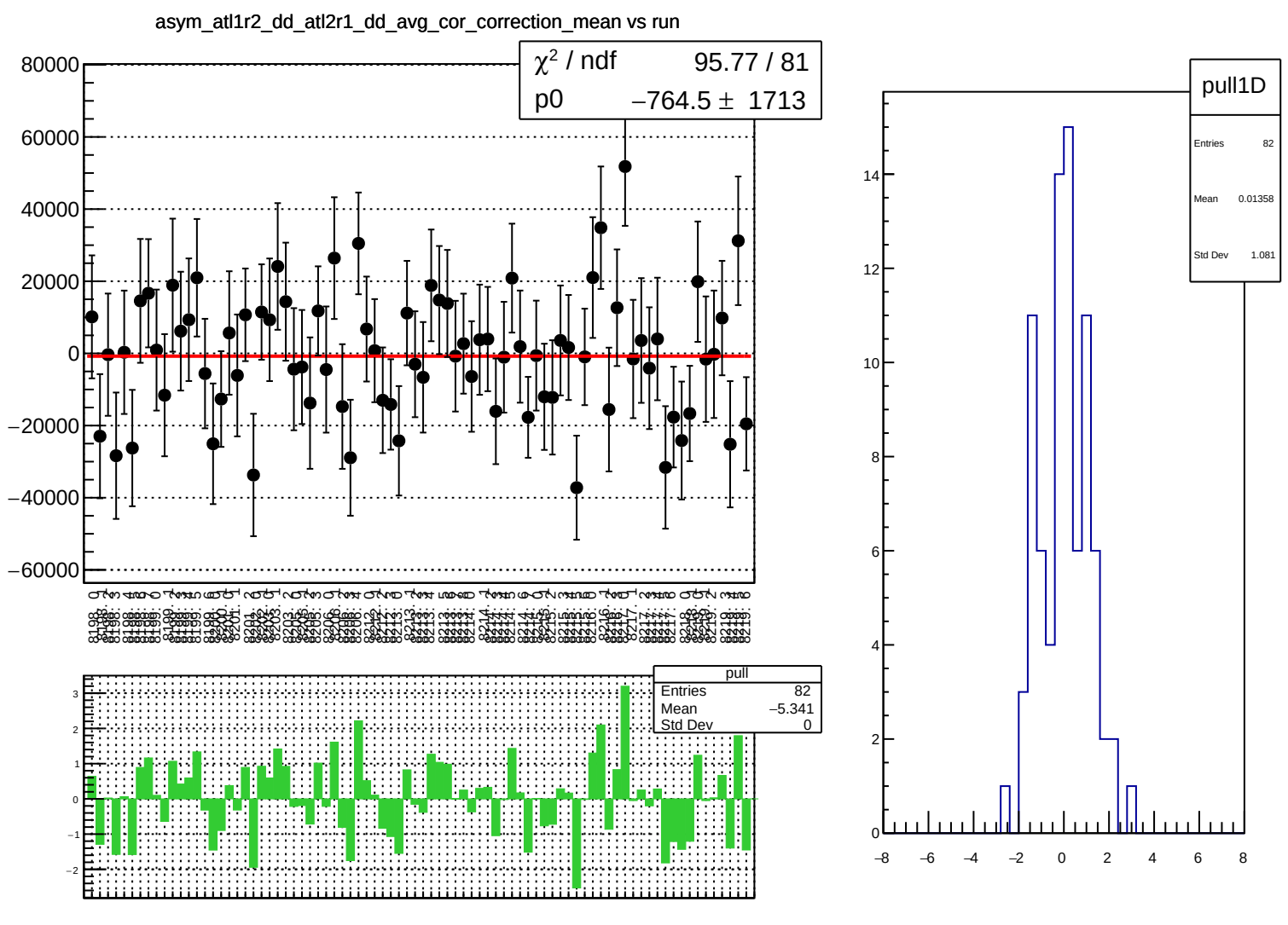

pull1D
Entries 82
Mean 0.01357
Std Dev 1.081

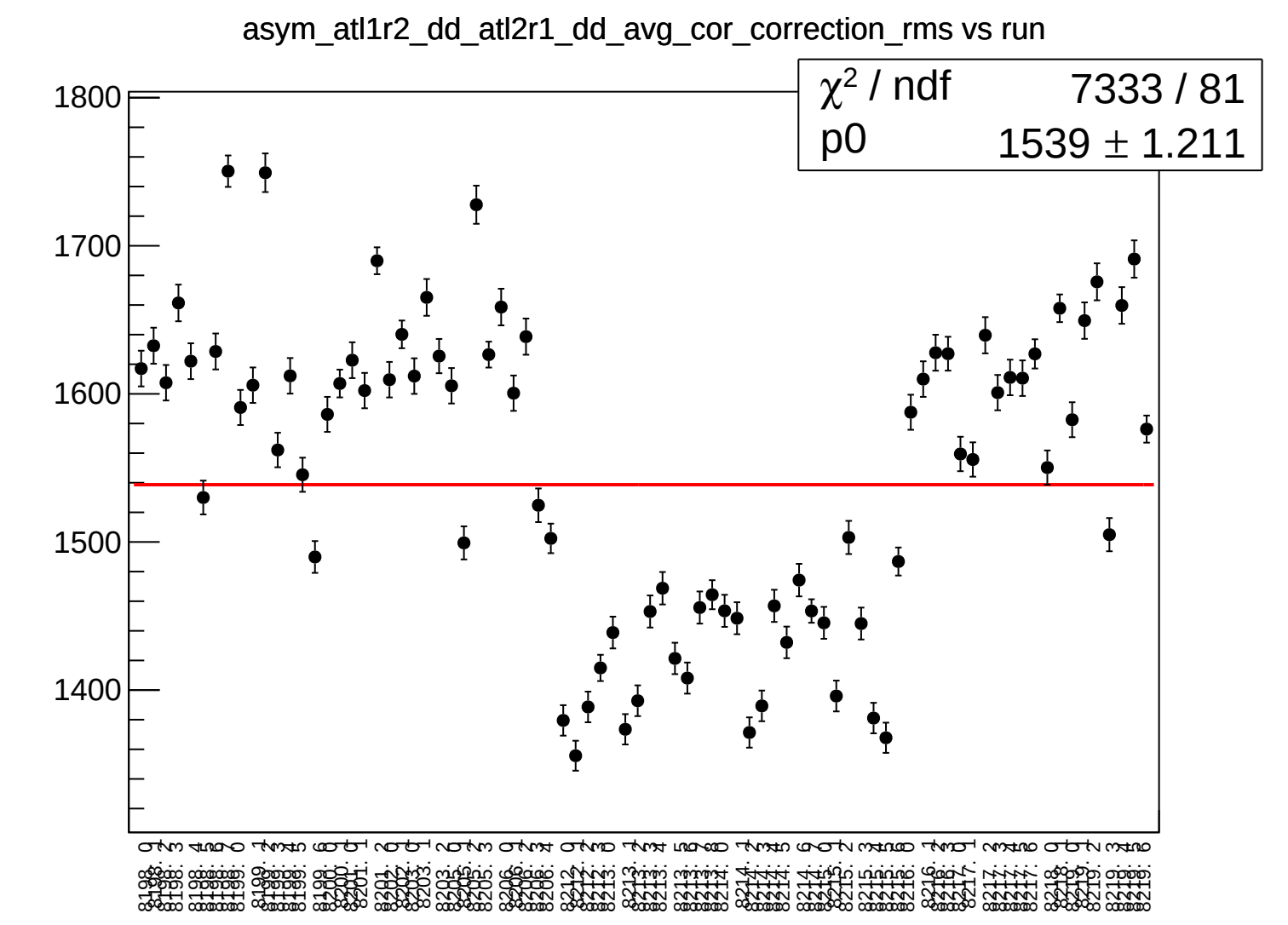

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 7332 / 81
p0 1539 ± 1.211
1800
1700
1600
1500
1400

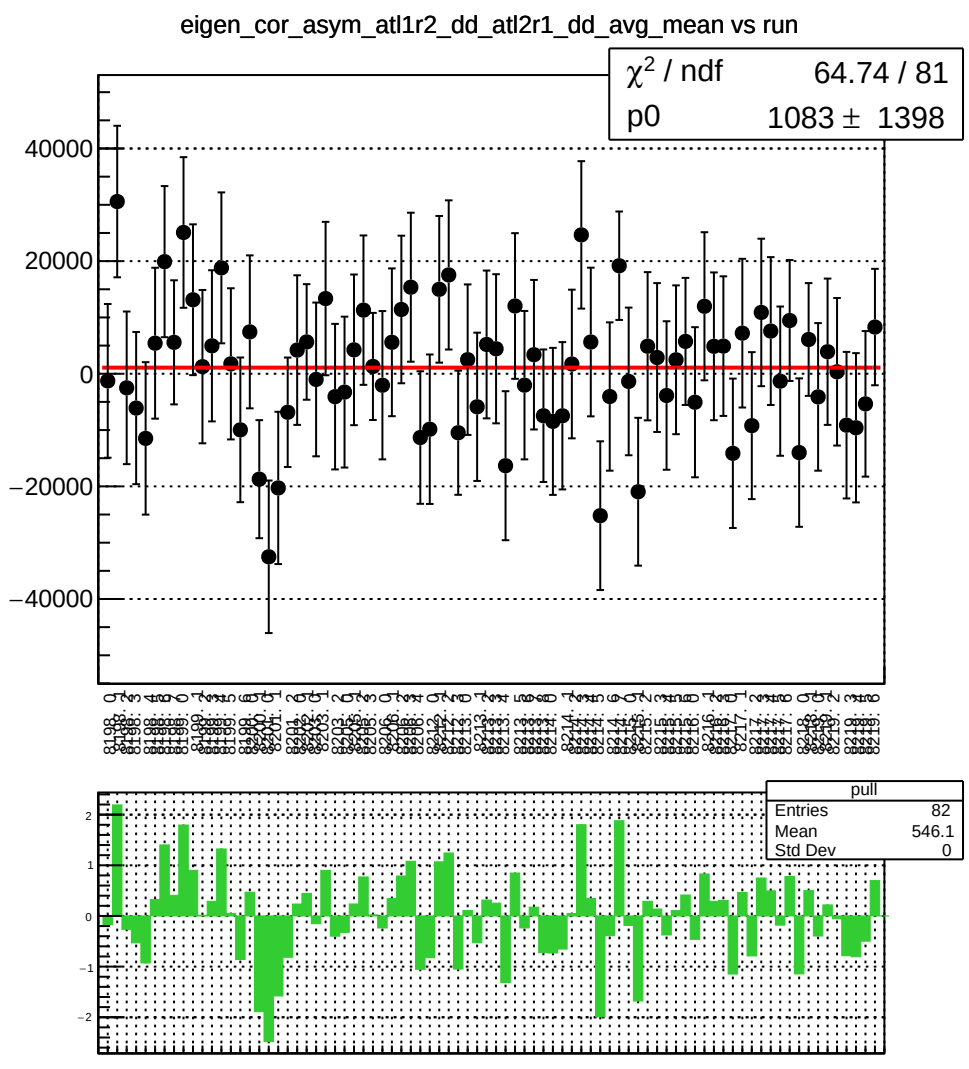

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 64.74 / 81
p0 1083 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 546.1
Std Dev 0
2
1
0
−1
−2

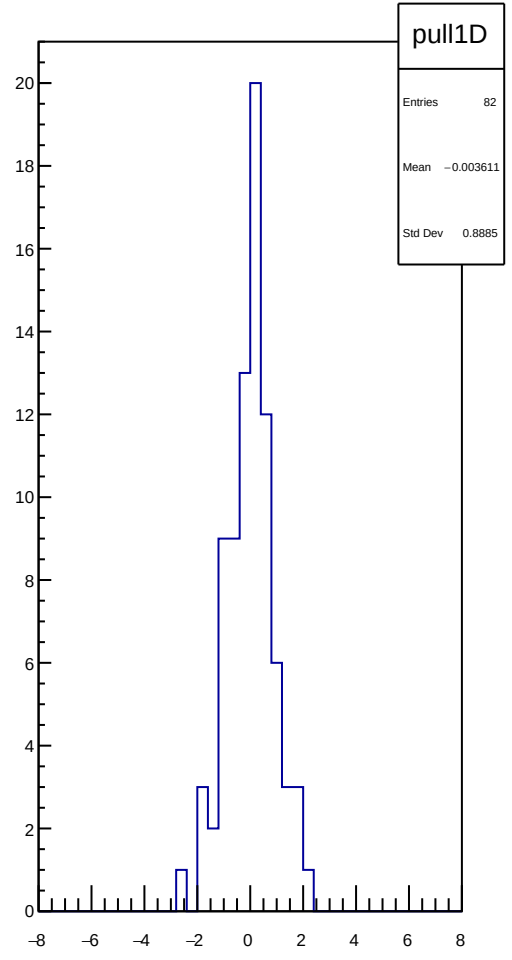

pull1D
Entries 82
Mean −0.003611
Std Dev 0.8885
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

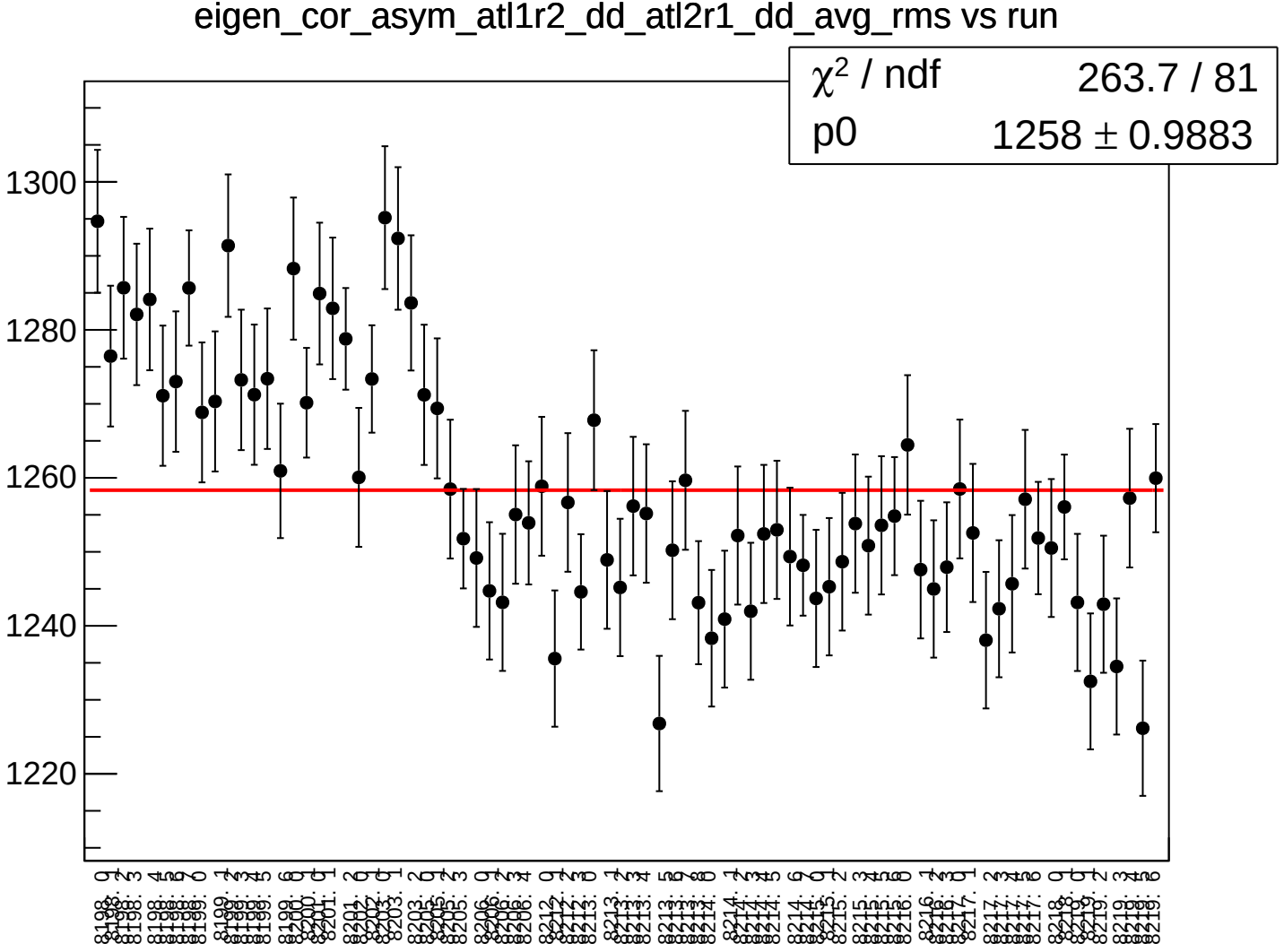

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 263.7 / 81
p0 1258 ± 0.9883
1300
1280
1260
1240
1220

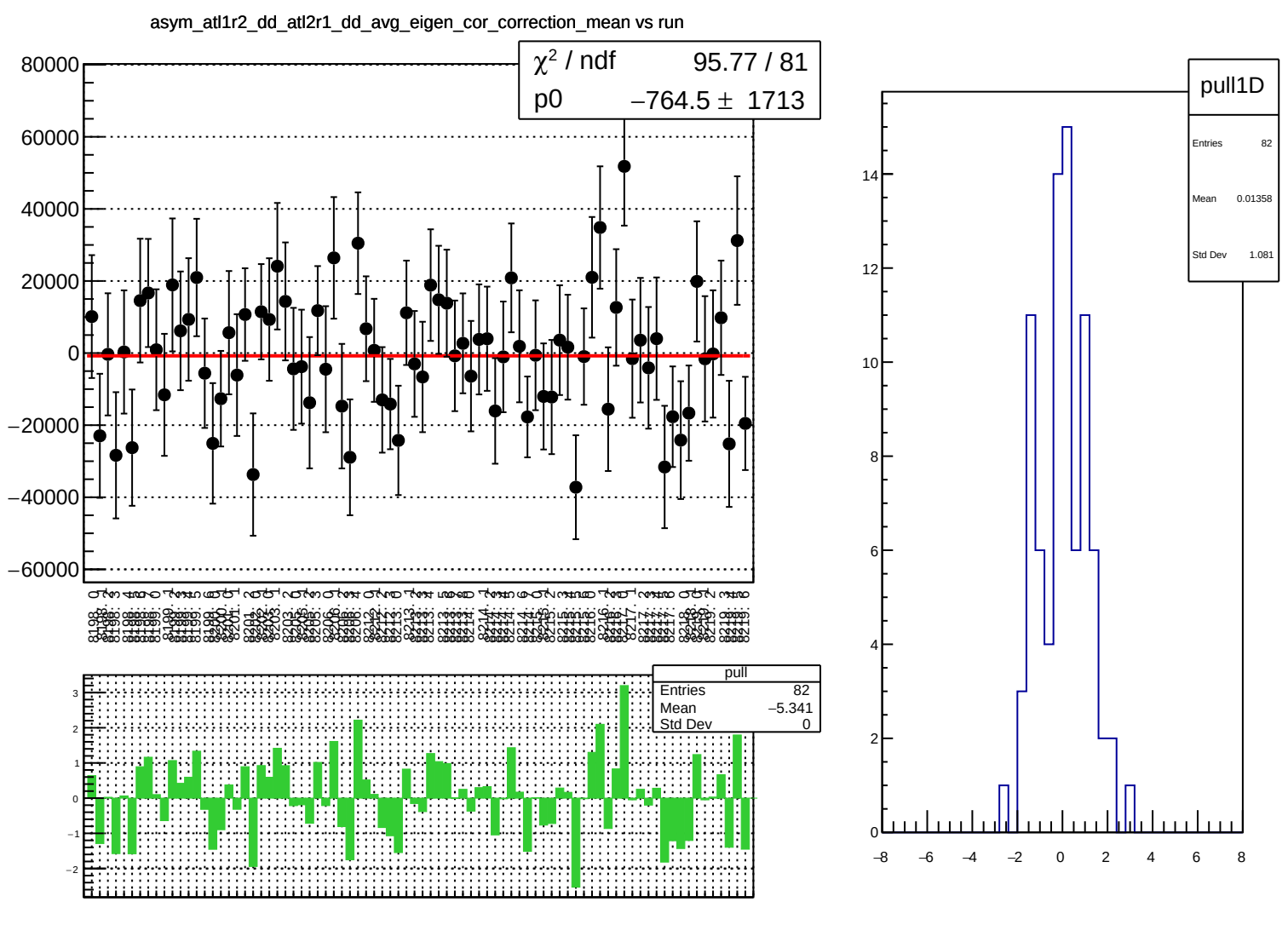

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 95.77 / 81
p0 −764.5 ± 1713
pull
Entries 82
Mean −5.341
Std Dev 0
pull1D
Entries 82
Mean 0.01358
Std Dev 1.081

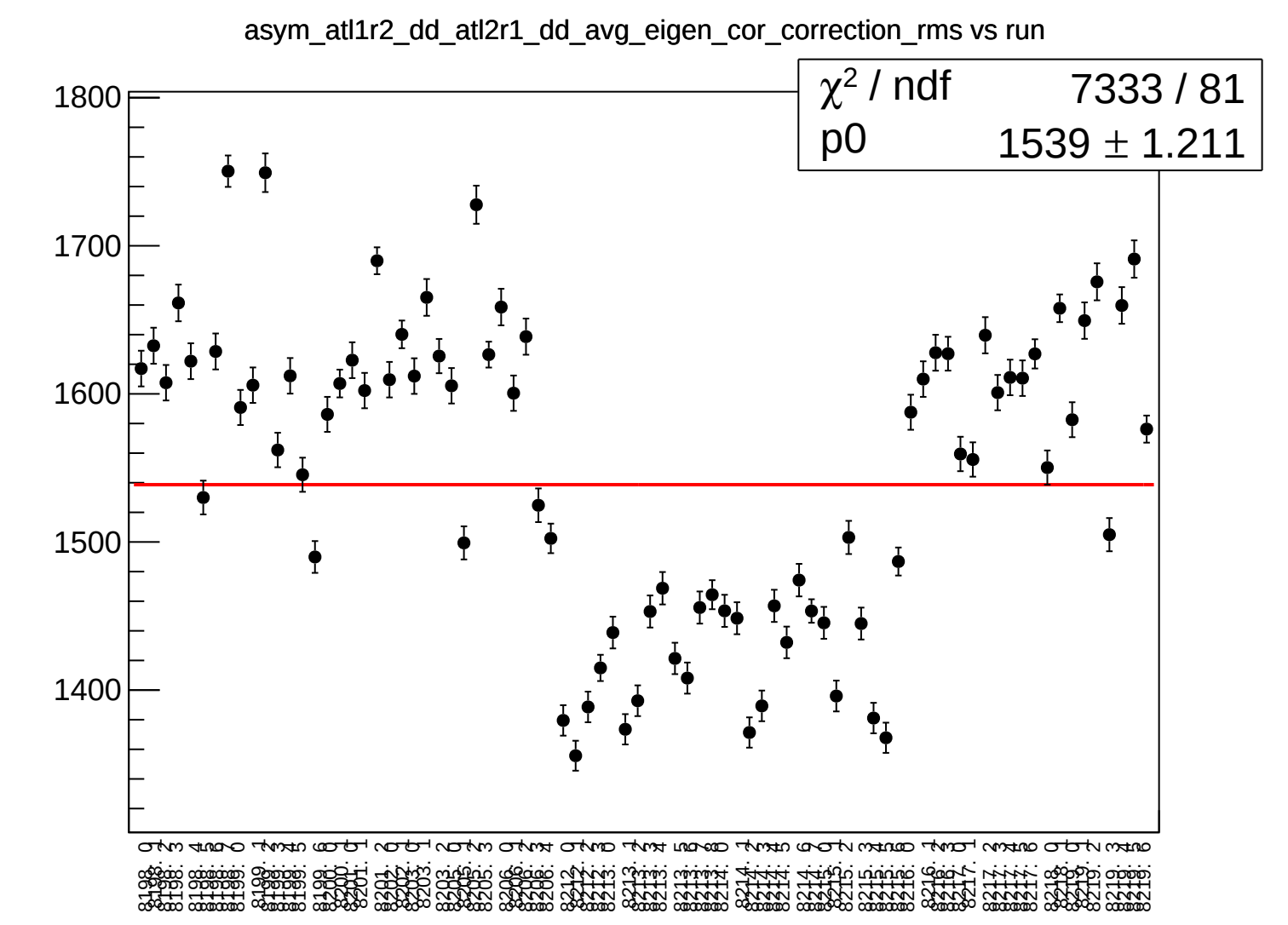

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 7333 / 81
p0 1539 ± 1.211
1800
1700
1600
1500
1400

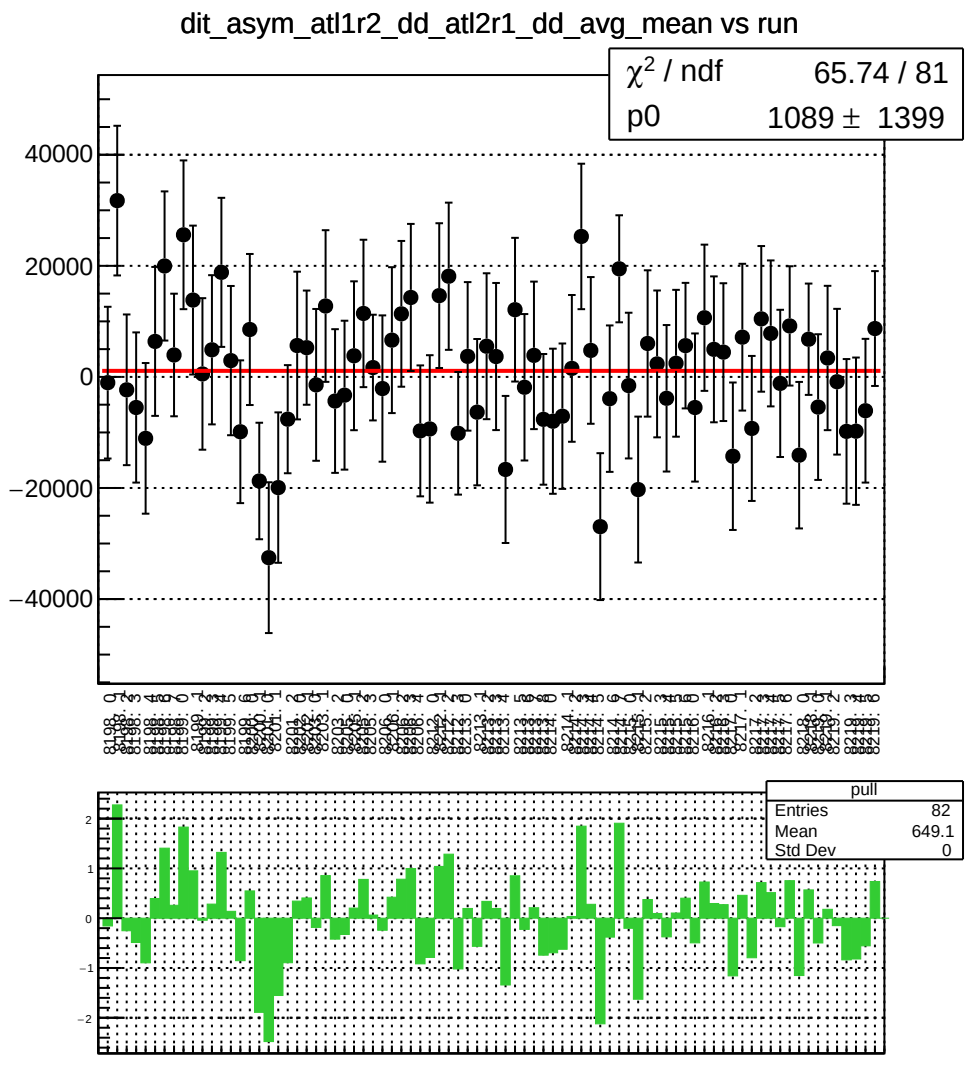

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 64.74 / 81
p0 1083 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 546.1
Std Dev 0
2
1
0
−1
−2

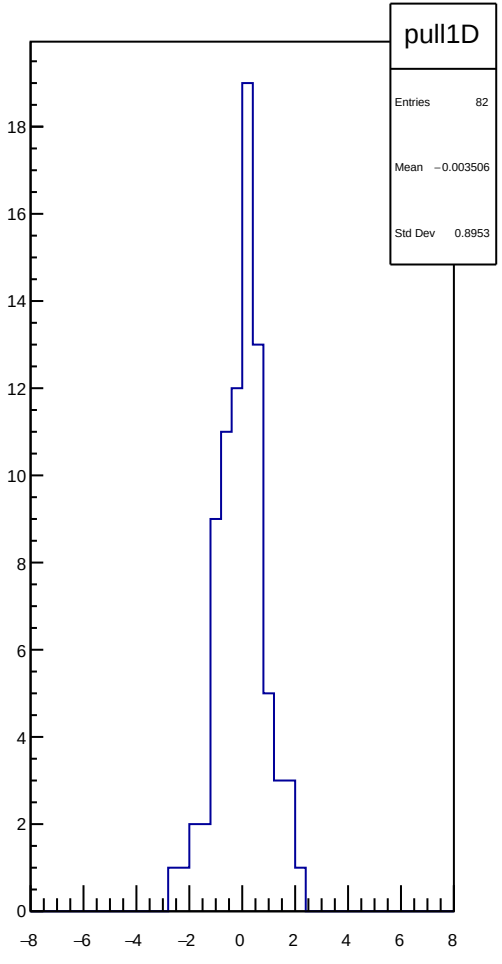

pull1D
Entries 82
Mean −0.003611
Std Dev 0.8885
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

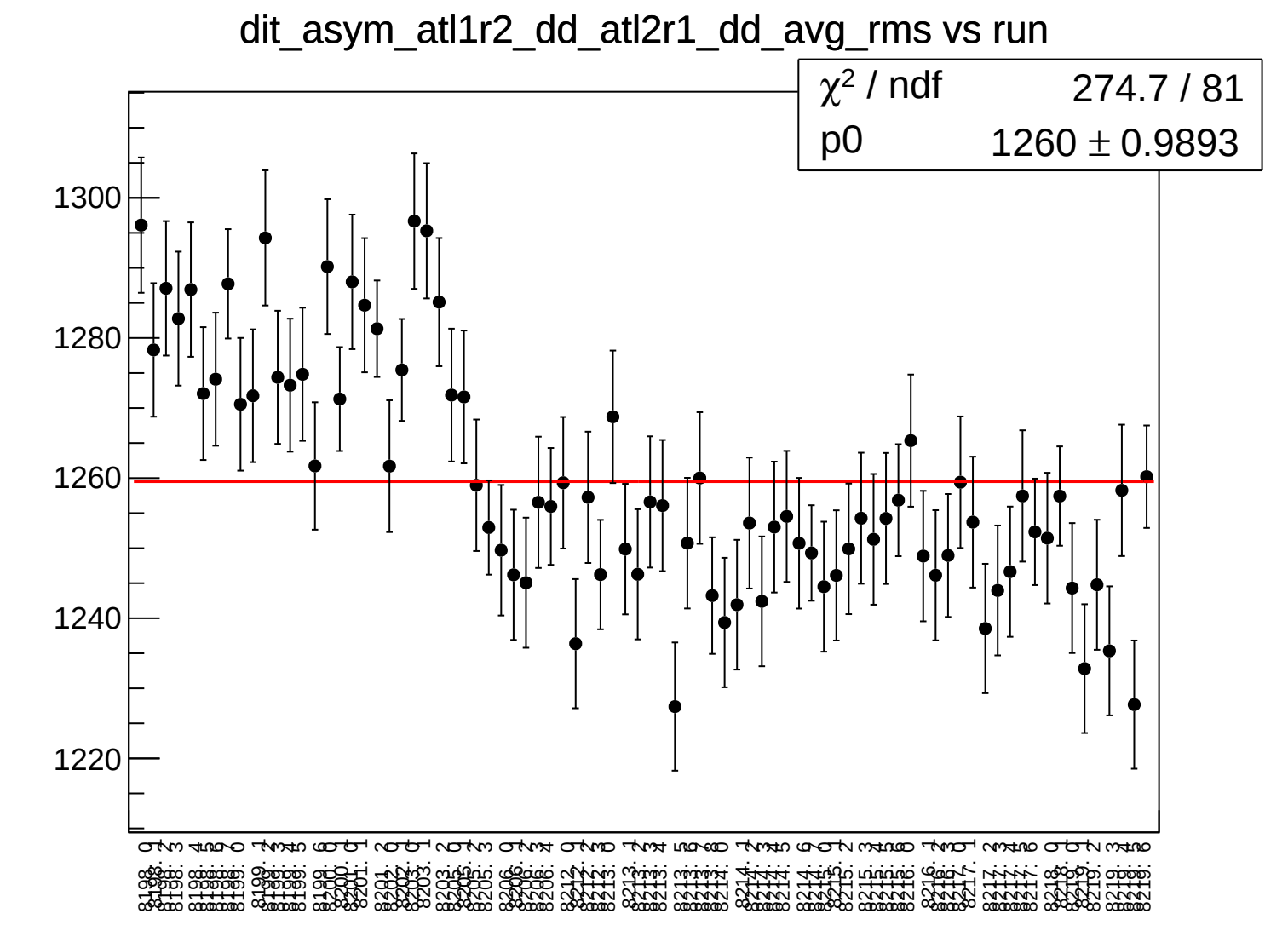

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 263.7 / 81
p0 1258 ± 0.9883
1300
1280
1260
1240
1220

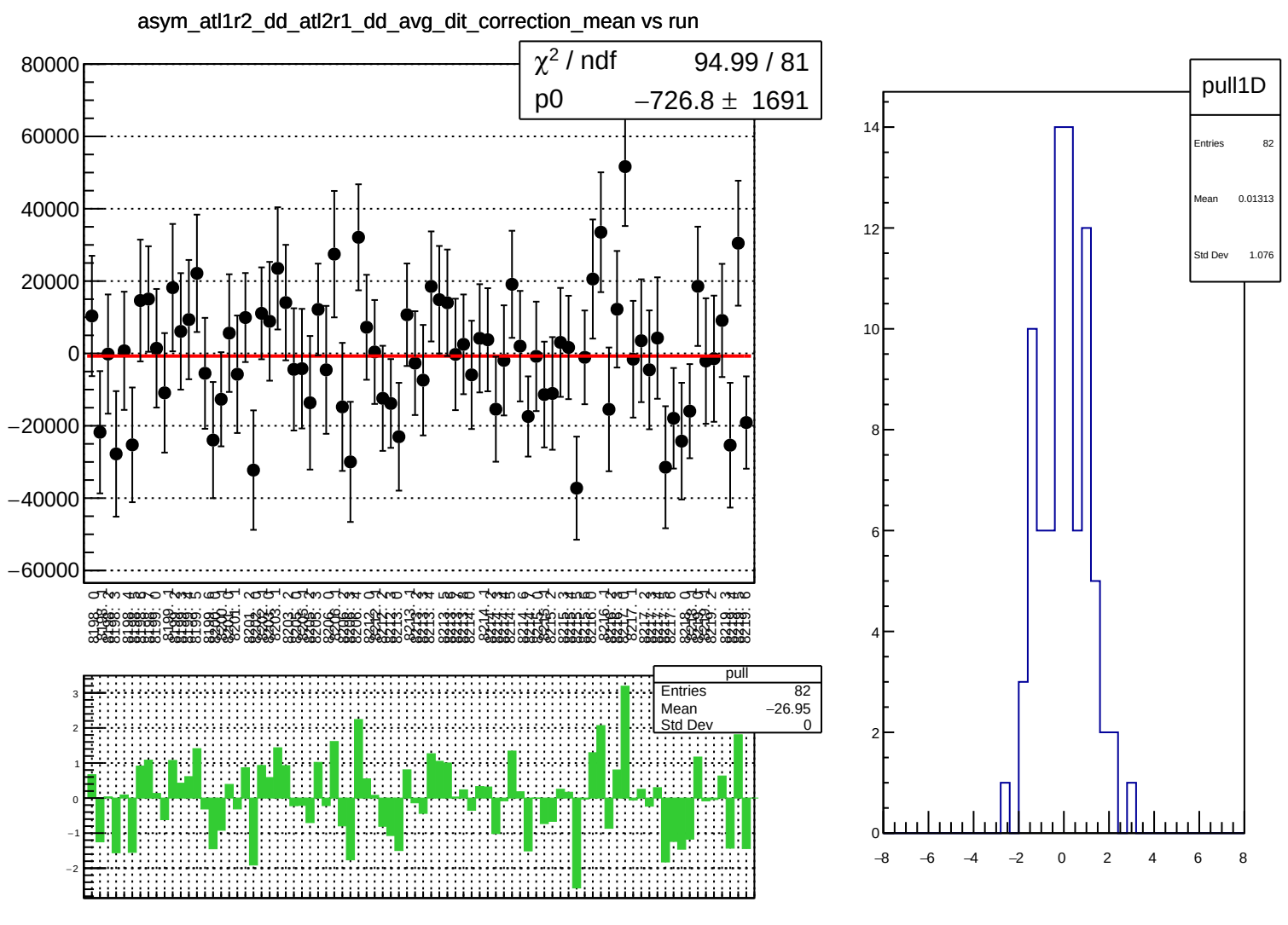

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.77 / 81
p0 −764.5 ± 1713
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −5.341
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01358
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

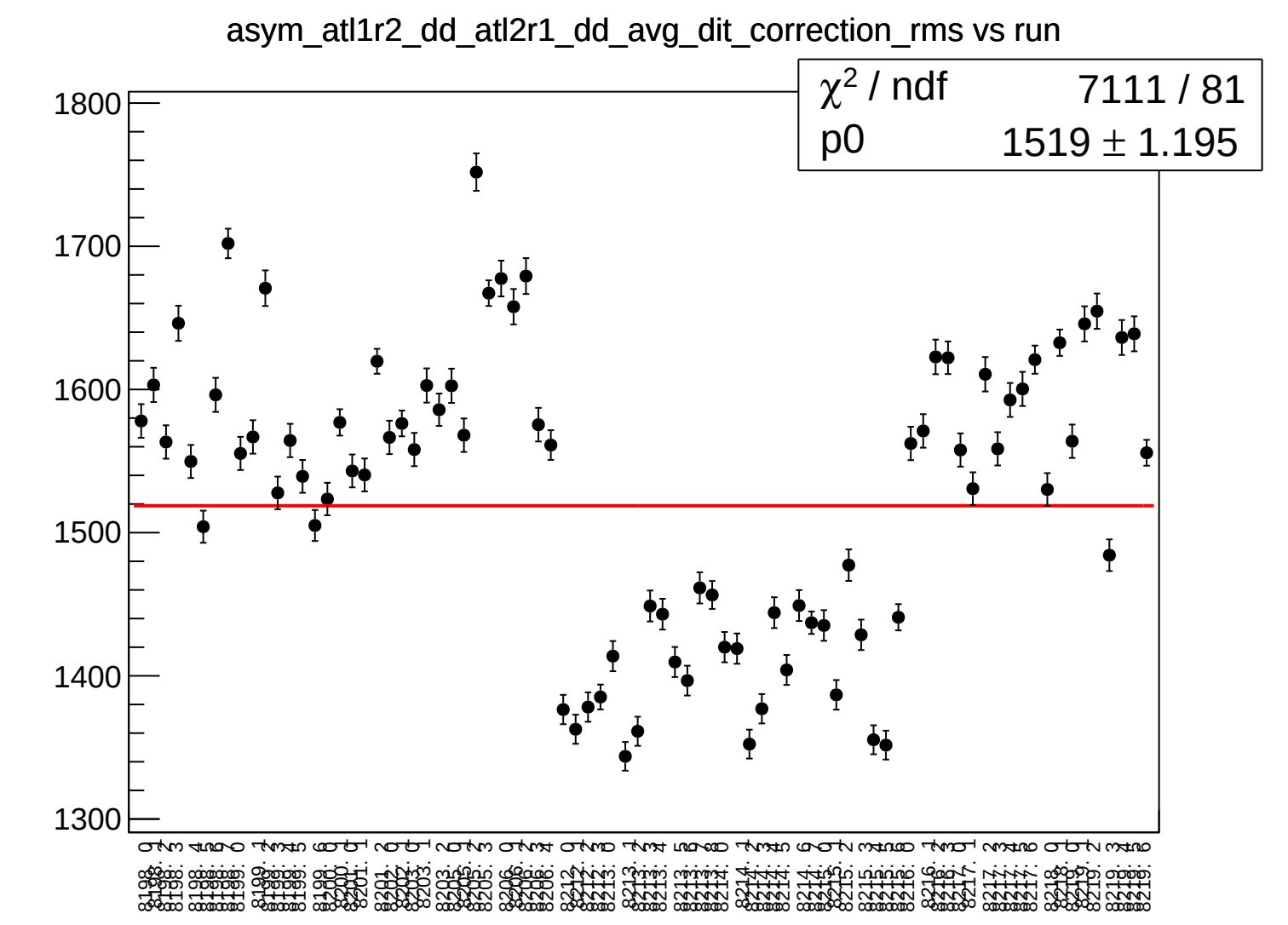

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7333 / 81
p0 1539 ± 1.211
1800
1700
1600
1500
1400

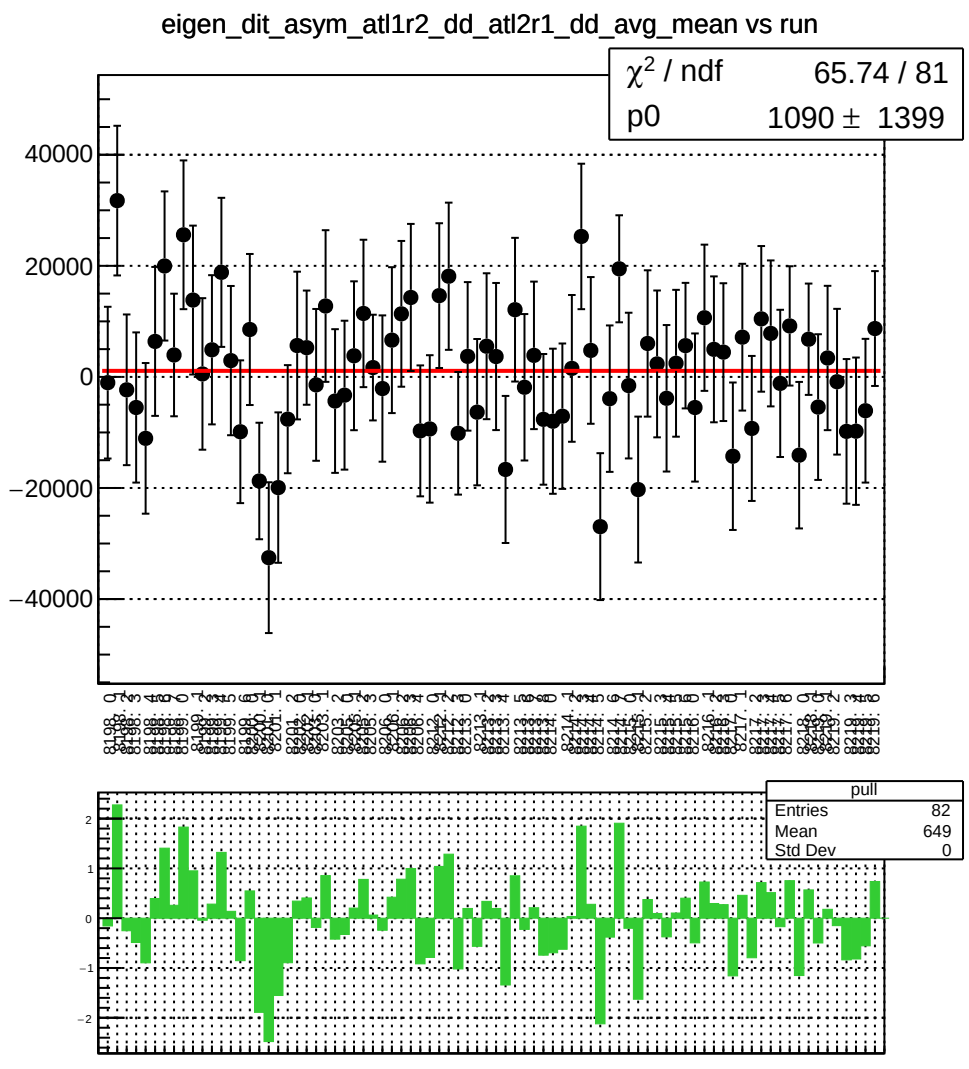

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 65.74 / 81
p0 1089 ± 1399
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 649.1
Std Dev 0
2
1
0
−1
−2

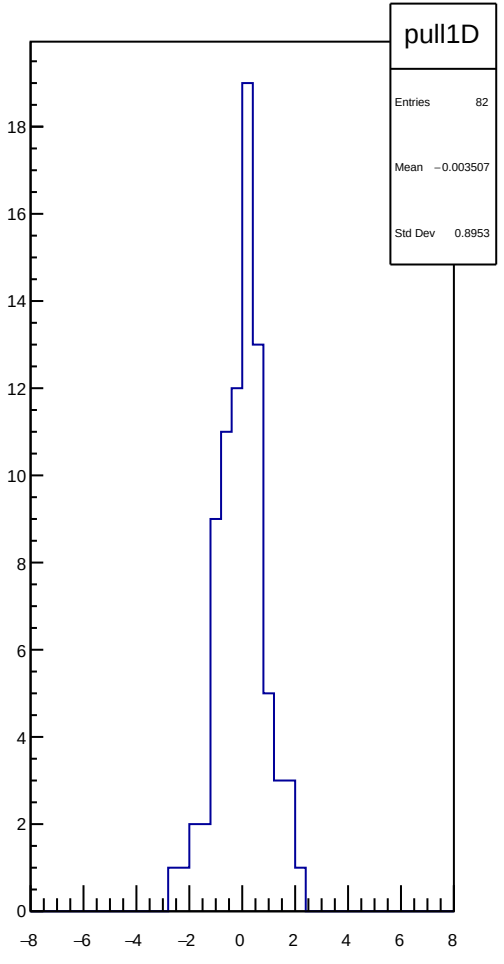

pull1D
Entries 82
Mean −0.003506
Std Dev 0.8953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

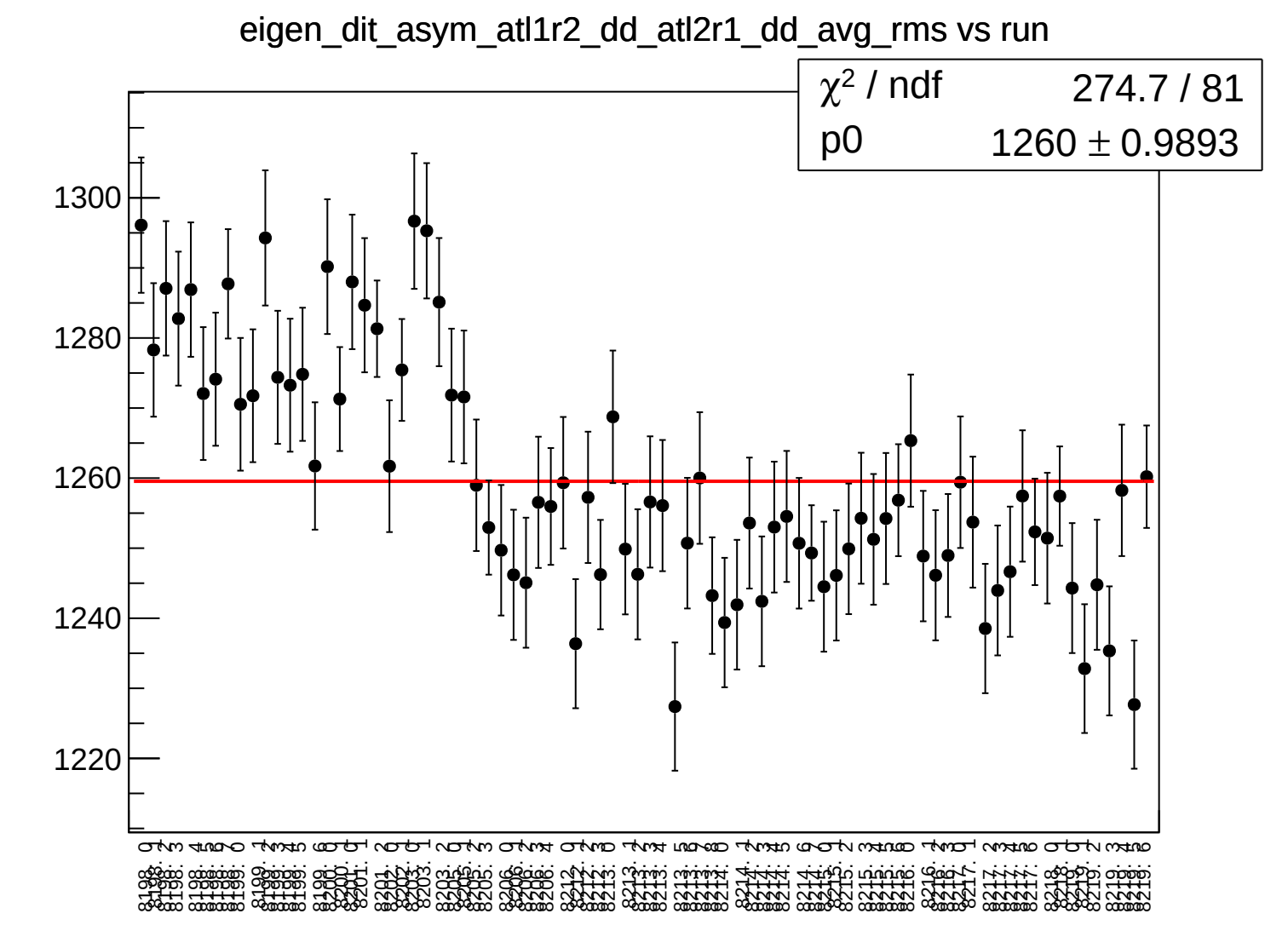

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 274.7 / 81
p0 1260 ± 0.9893
1300
1280
1260
1240
1220

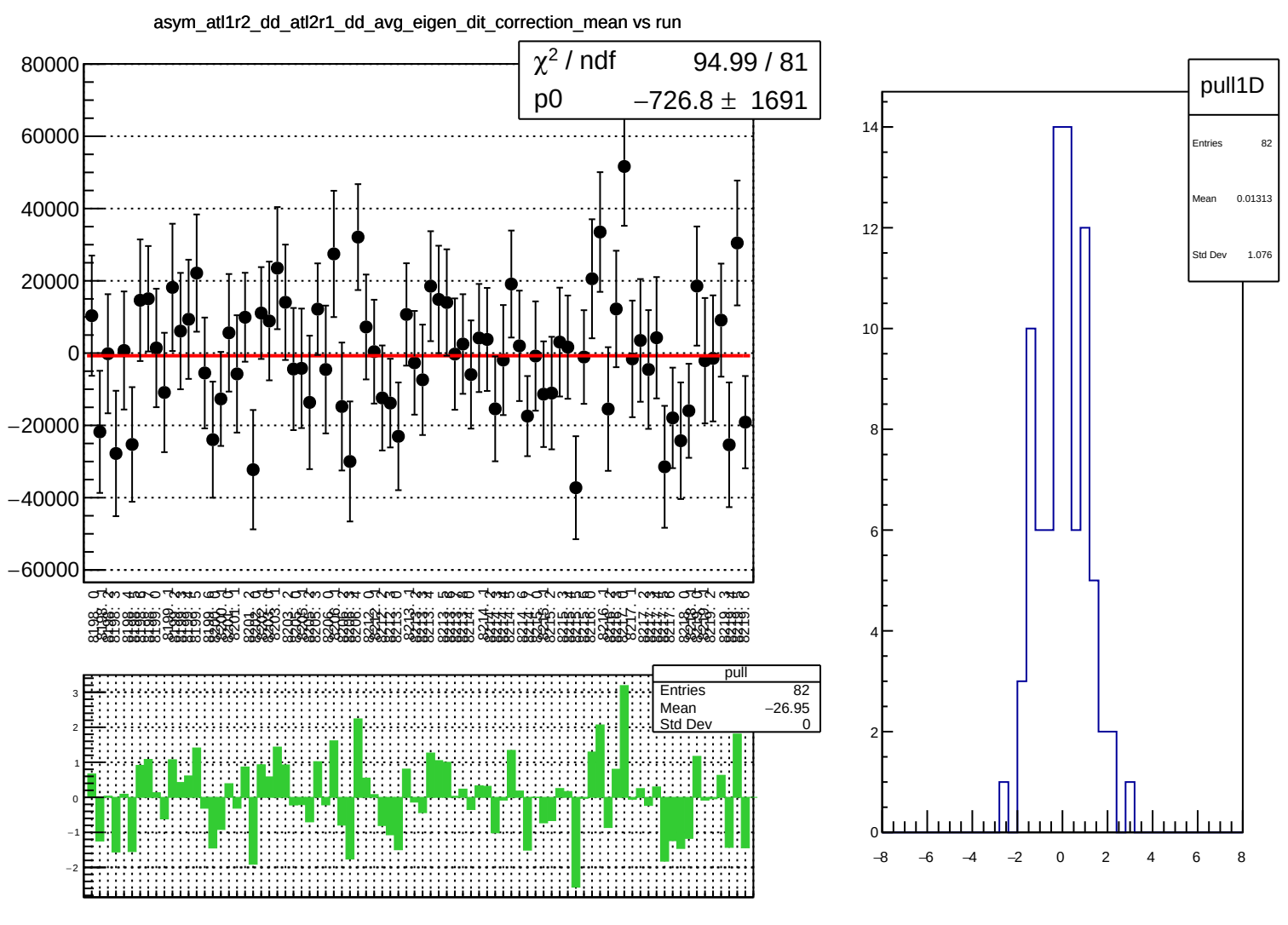

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 94.99 / 81
p0 −726.8 ± 1691
pull
Entries 82
Mean −26.95
Std Dev 0
pull1D
Entries 82
Mean 0.01313
Std Dev 1.076

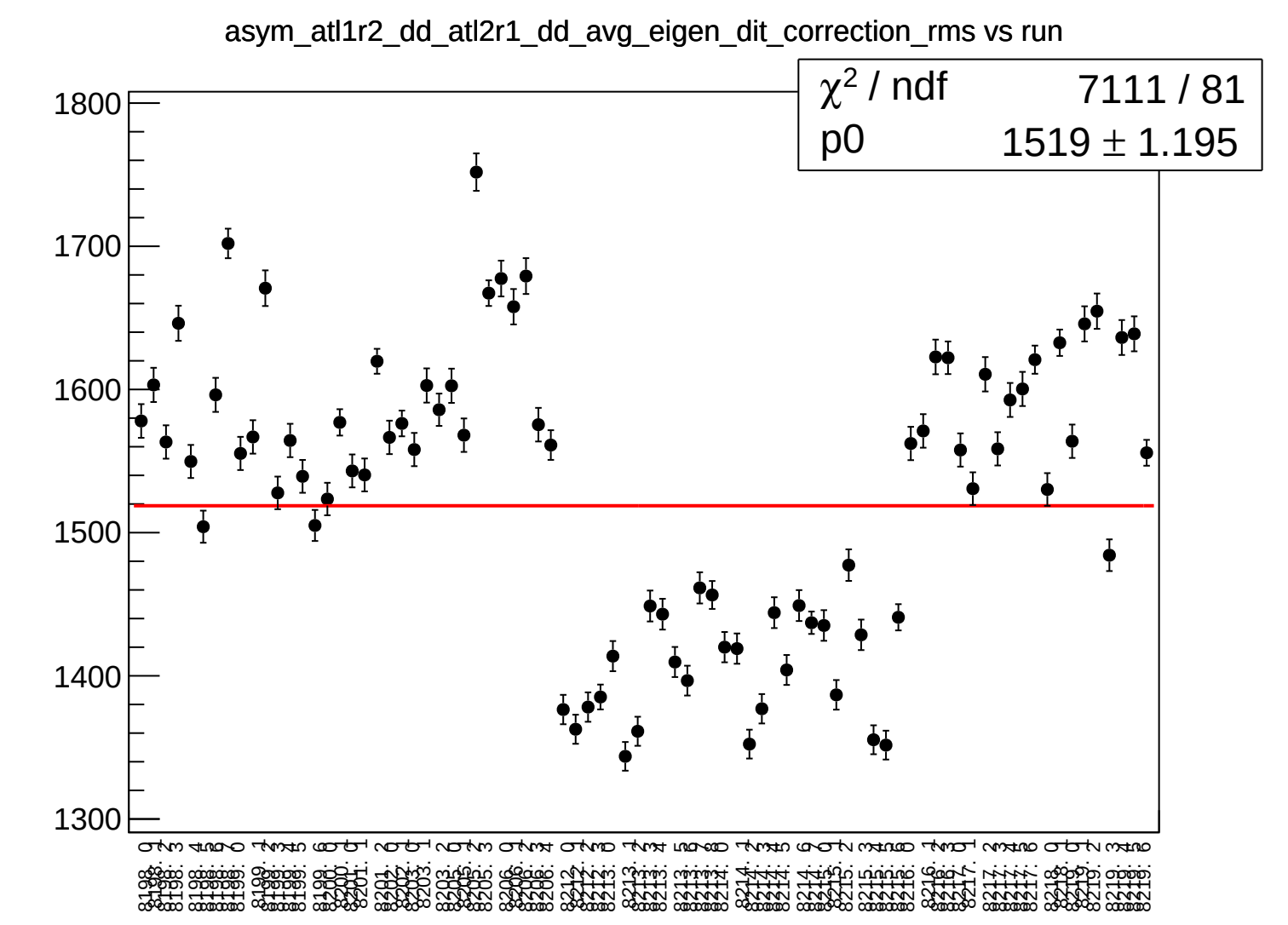

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 7111 / 81
p0 1519 ± 1.195
1800
1700
1600
1500
1400
1300

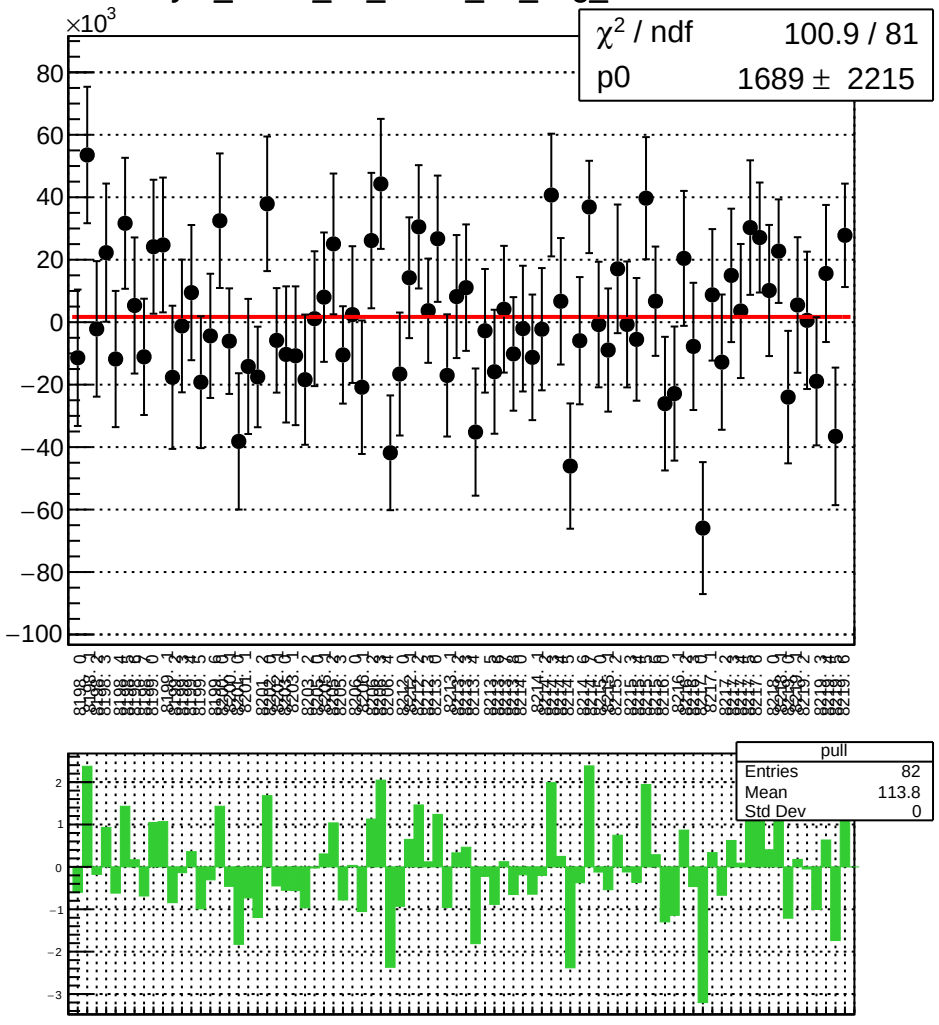

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 65.74 / 81
p0 1090 ± 1399
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 649
Std Dev 0
2
1
0
−1
−2

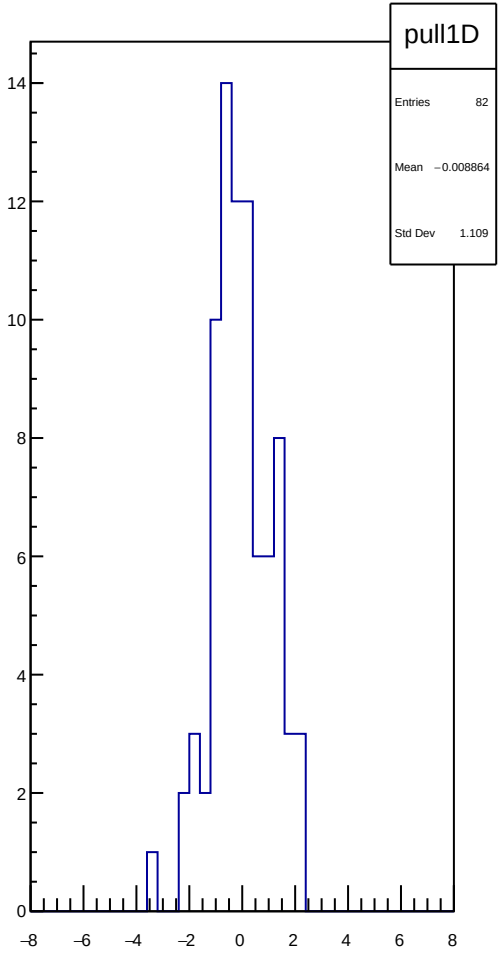

pull1D
Entries 82
Mean −0.003507
Std Dev 0.8953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

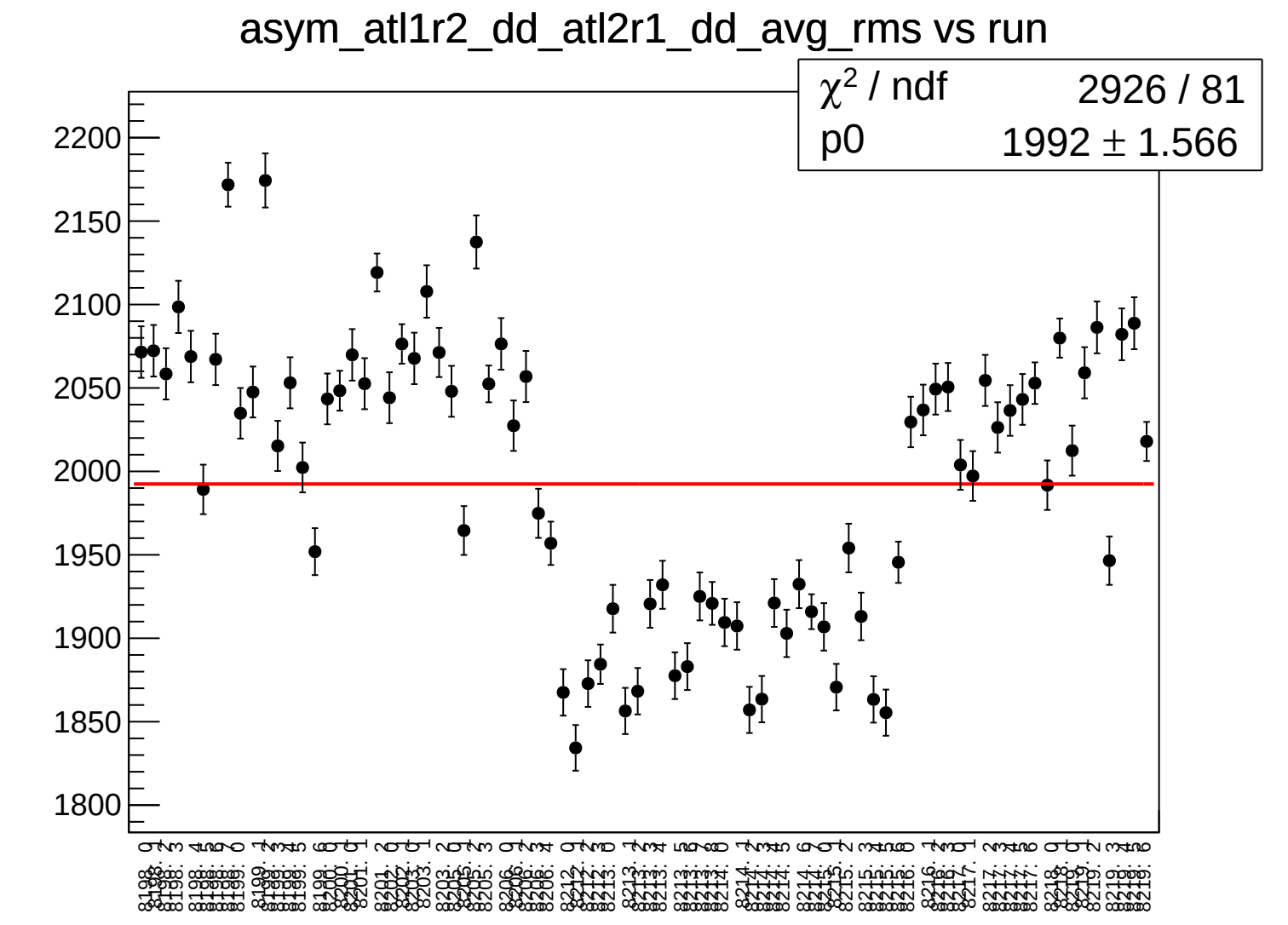

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 274.7 / 81
p0 1260 ± 0.9893
1300
1280
1260
1240
1220

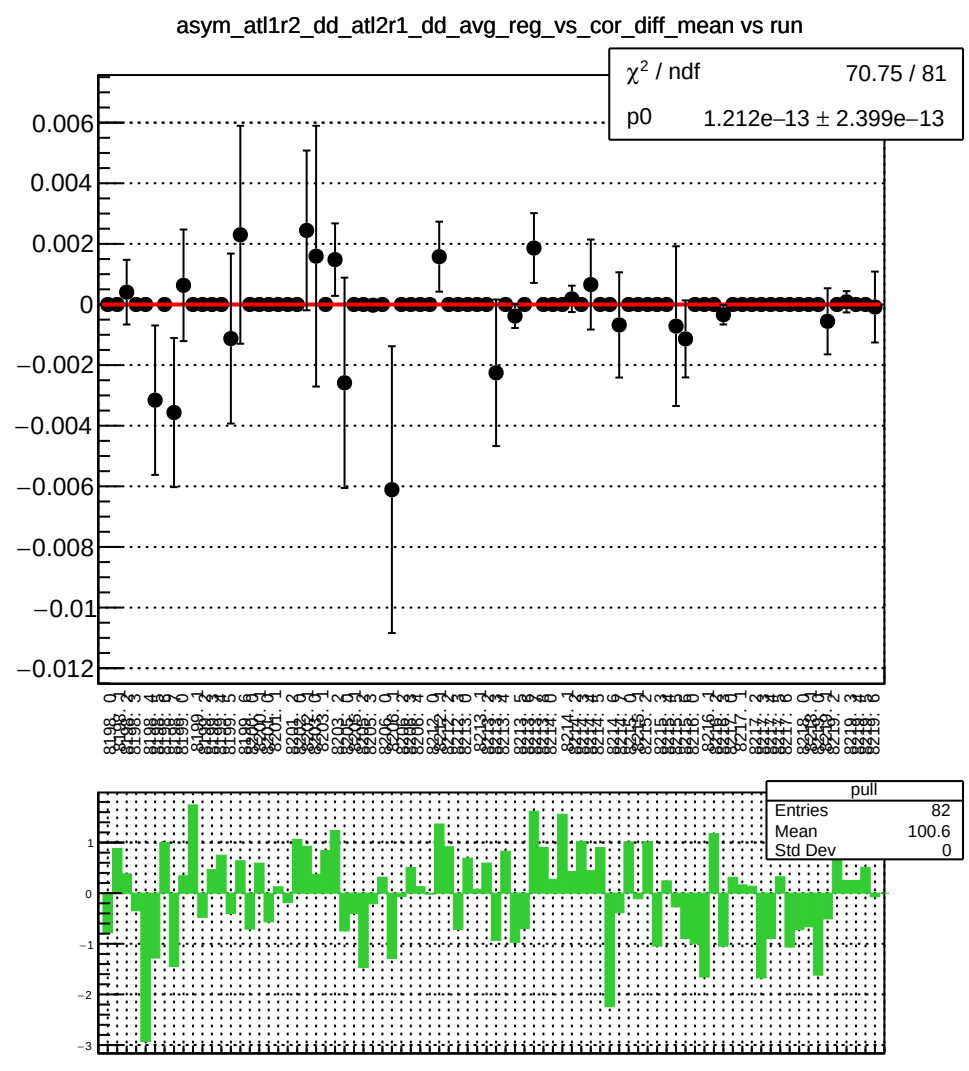

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 94.99 / 81
p0 −726.8 ± 1691
pull
Entries 82
Mean −26.95
Std Dev 0
pull1D
Entries 82
Mean 0.01313
Std Dev 1.076

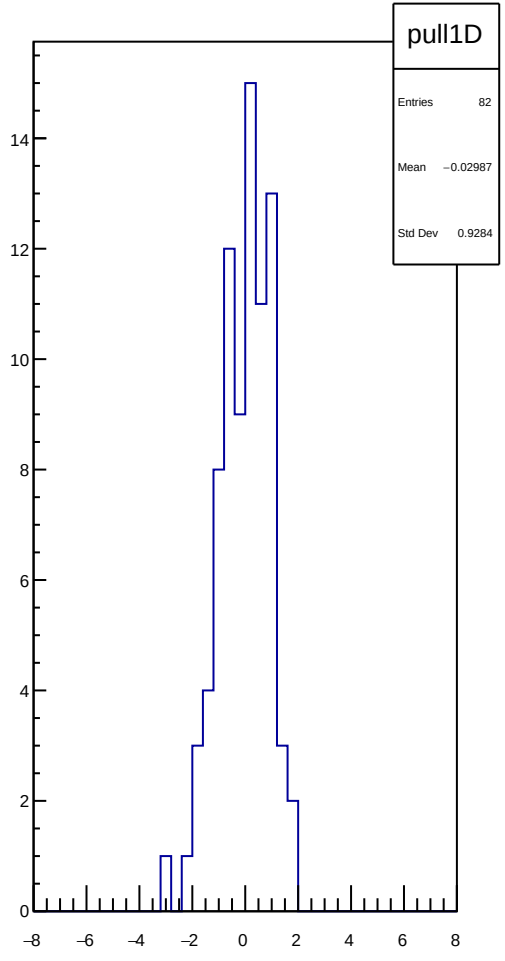

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7111 / 81
p0 1519 ± 1.195
1800
1700
1600
1500
1400
1300

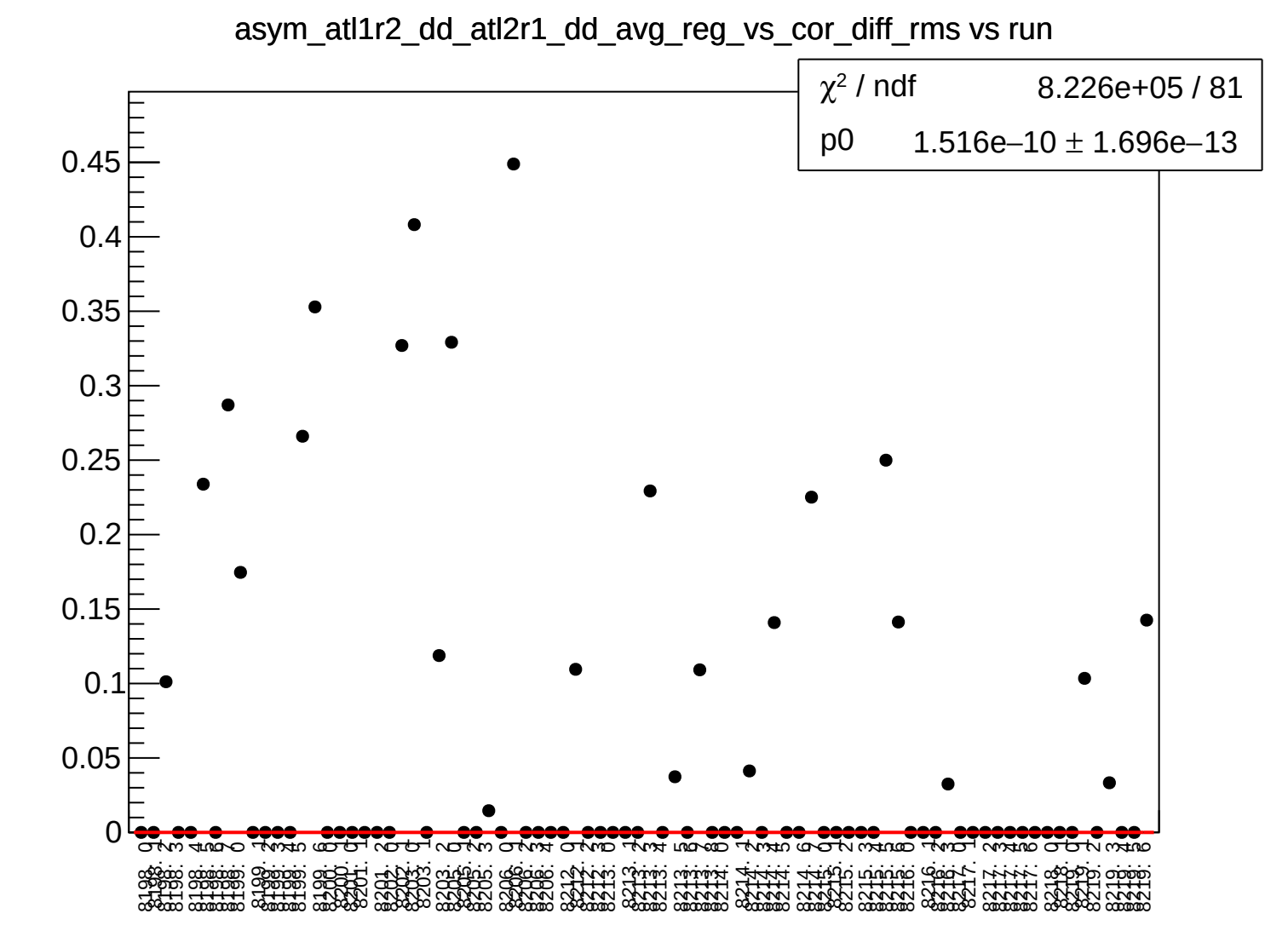

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ² / ndf 100.9 / 81
p0 1689 ± 2215
pull
Entries 82
Mean 113.8
Std Dev 0

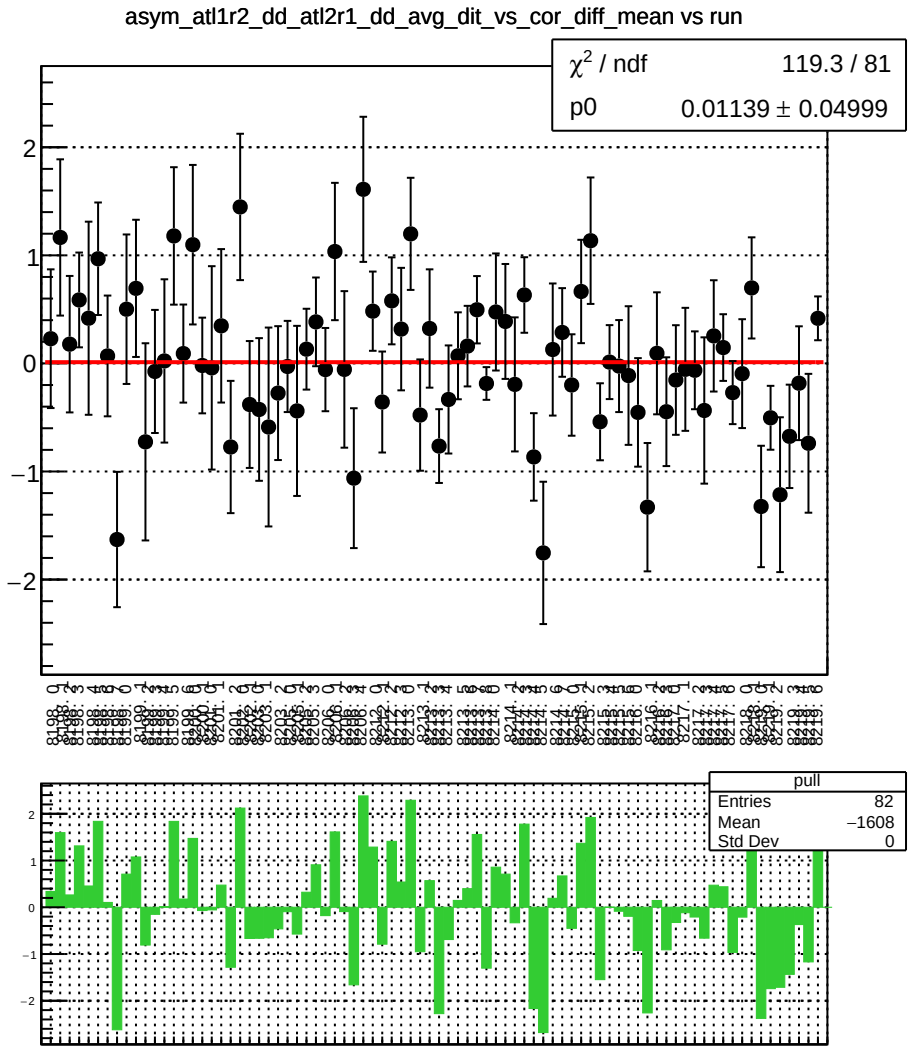

pull1D
Entries 82
Mean −0.008864
Std Dev 1.109

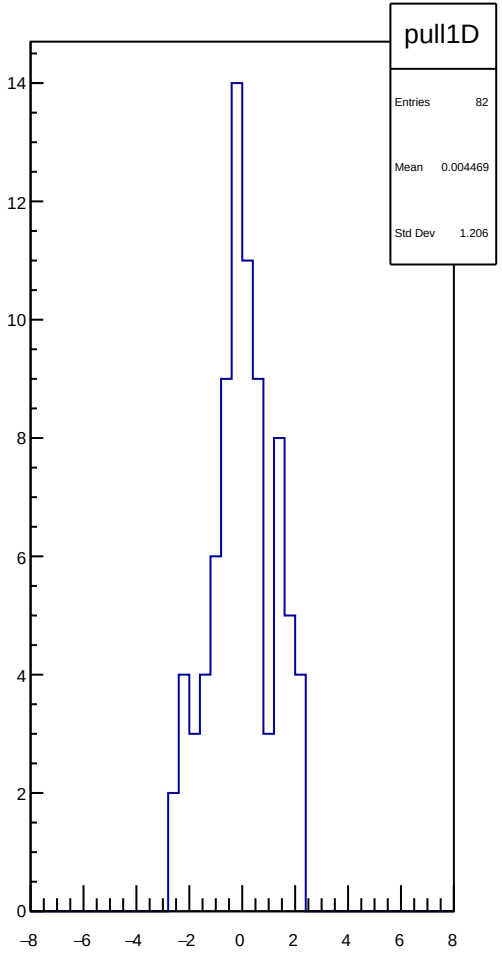

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2926 / 81
p0 1992 ± 1.566
2200
2150
2100
2050
2000
1950
1900
1850
1800

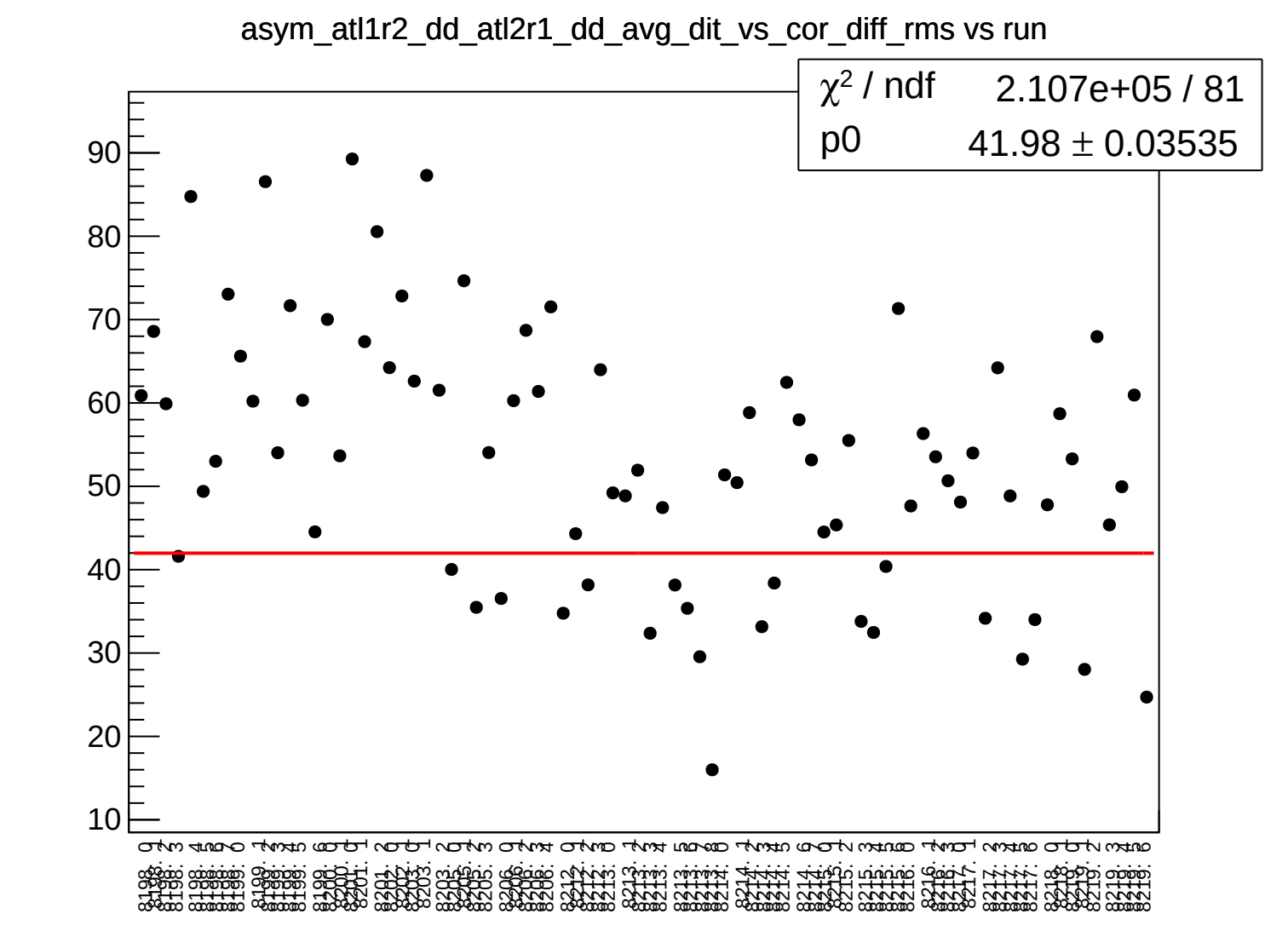

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.75 / 81
p0 1.212e−13 ± 2.399e−13
pull
Entries 82
Mean 100.6
Std Dev 0

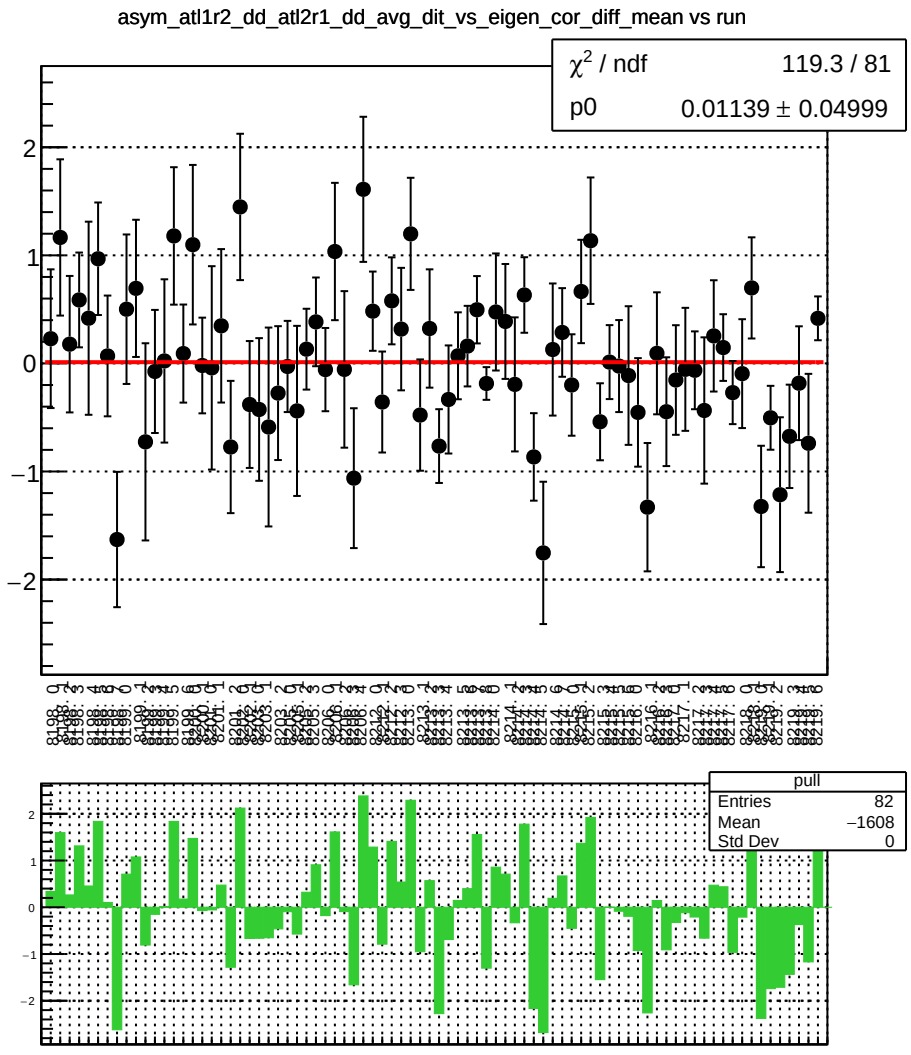

pull1D
Entries 82
Mean −0.02987
Std Dev 0.9284

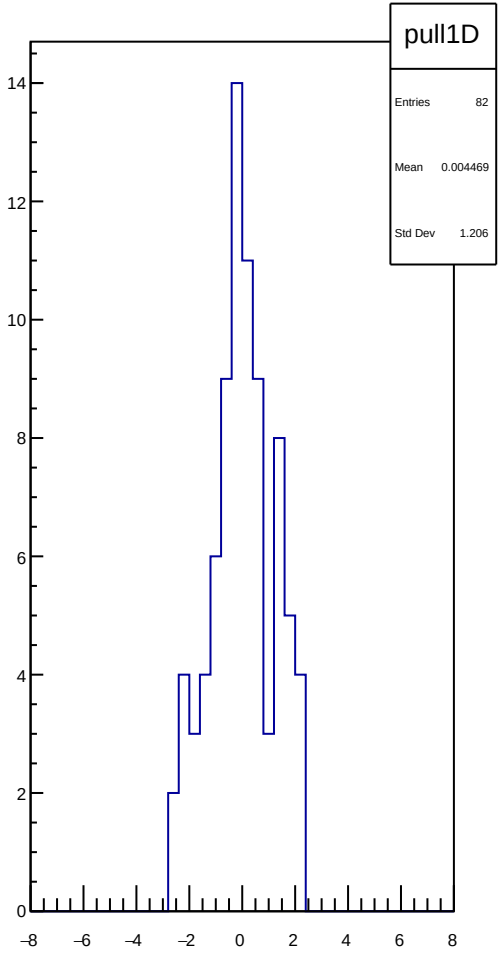

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.226e+05 / 81
p0 1.516e−10 ± 1.696e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

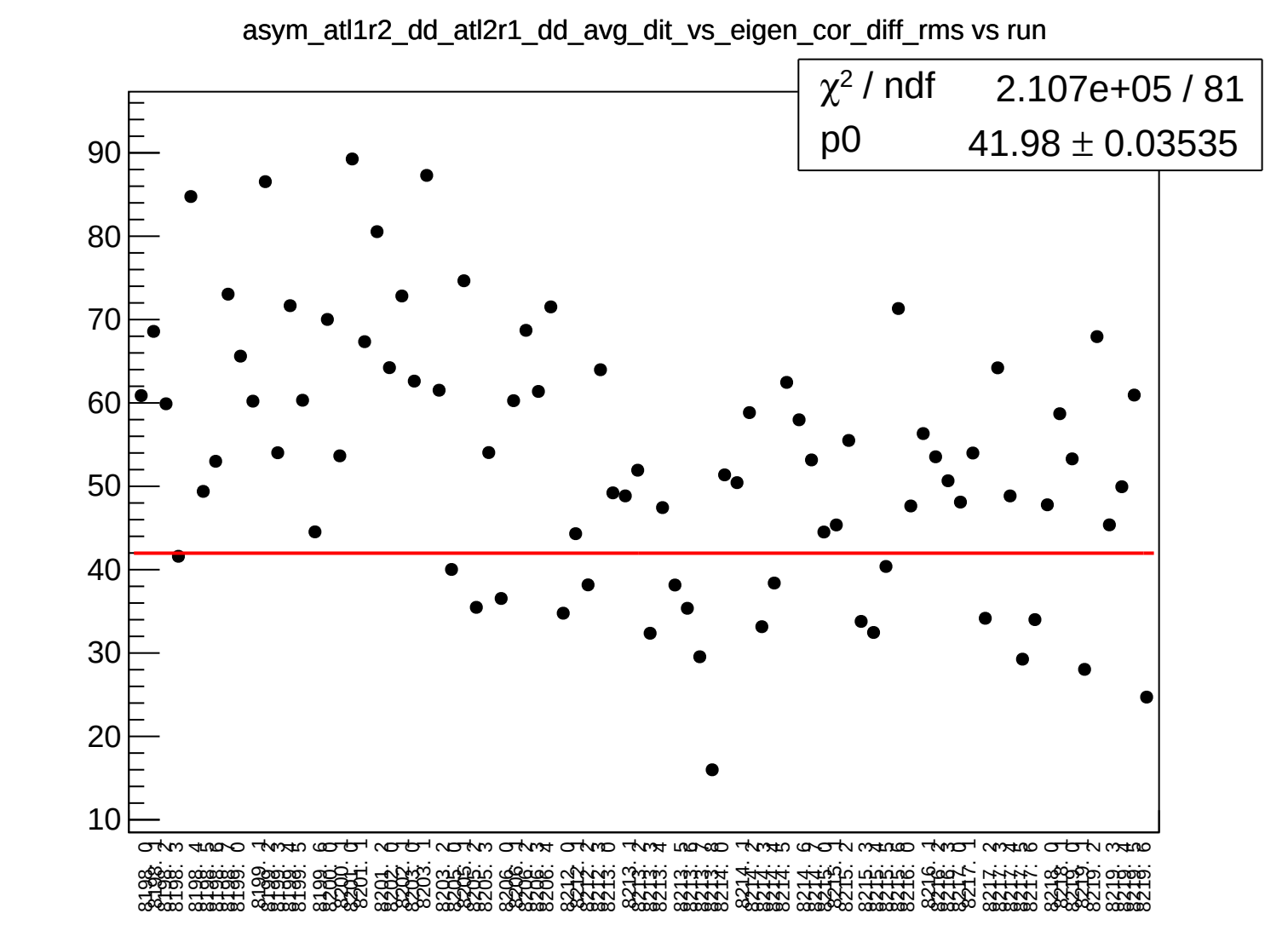

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 119.3 / 81
p0 0.01139 ± 0.04999
pull
Entries 82
Mean −1608
Std Dev 0

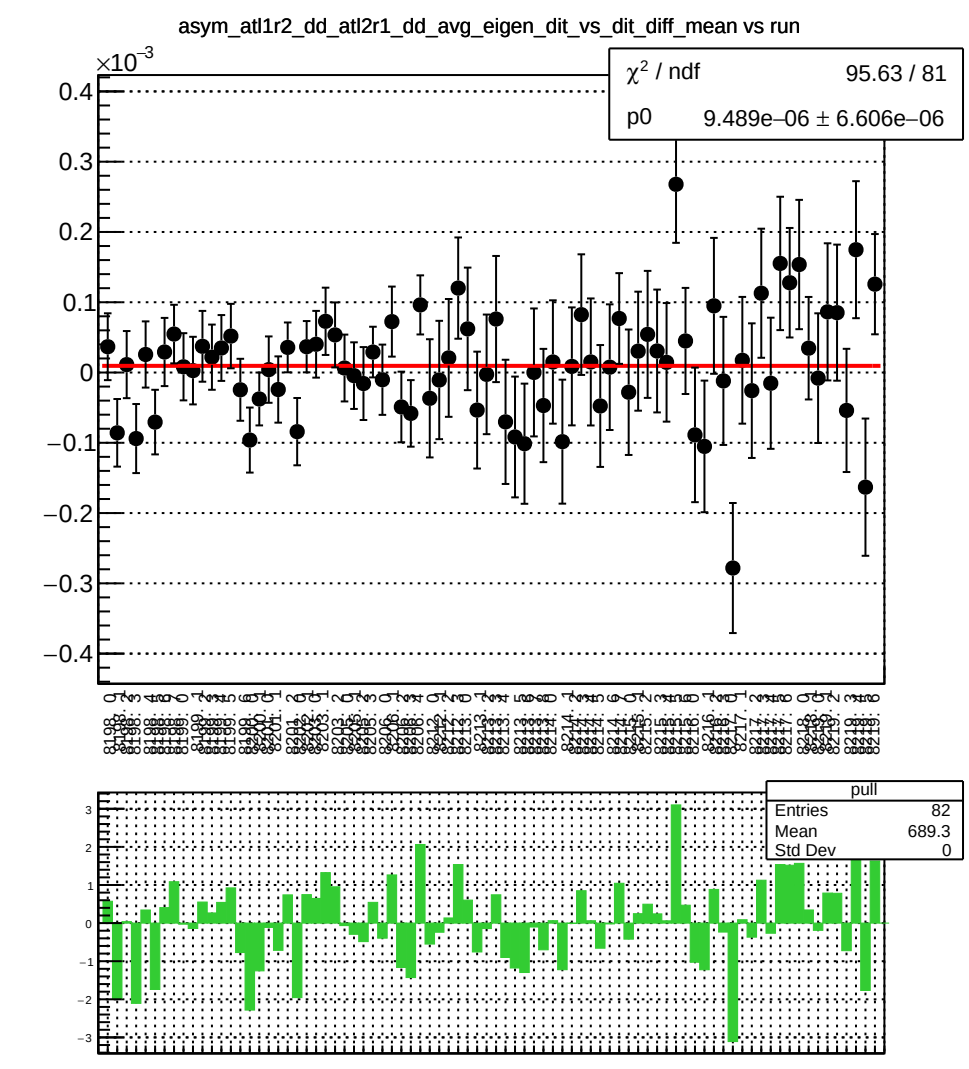

pull1D
Entries 82
Mean 0.004469
Std Dev 1.206

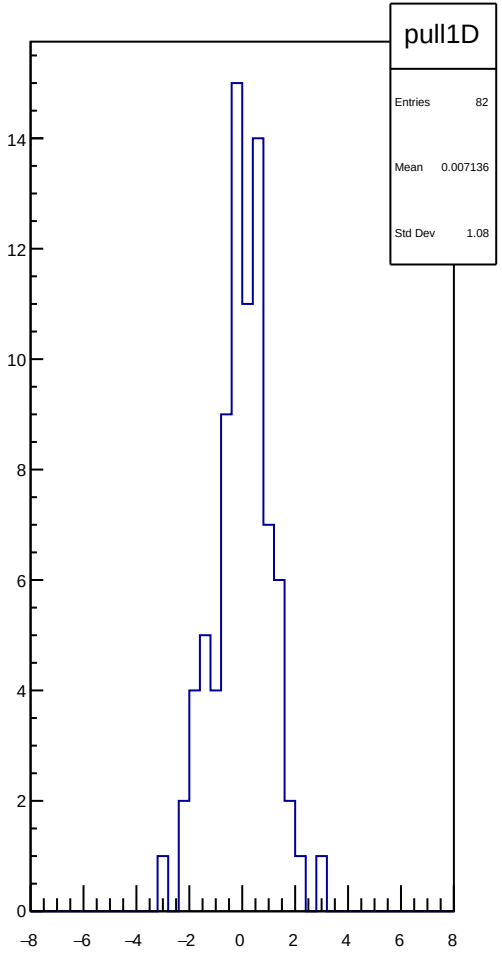

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.107e+05 / 81
p0 41.98 ± 0.03535
90
80
70
60
50
40
30
20
10

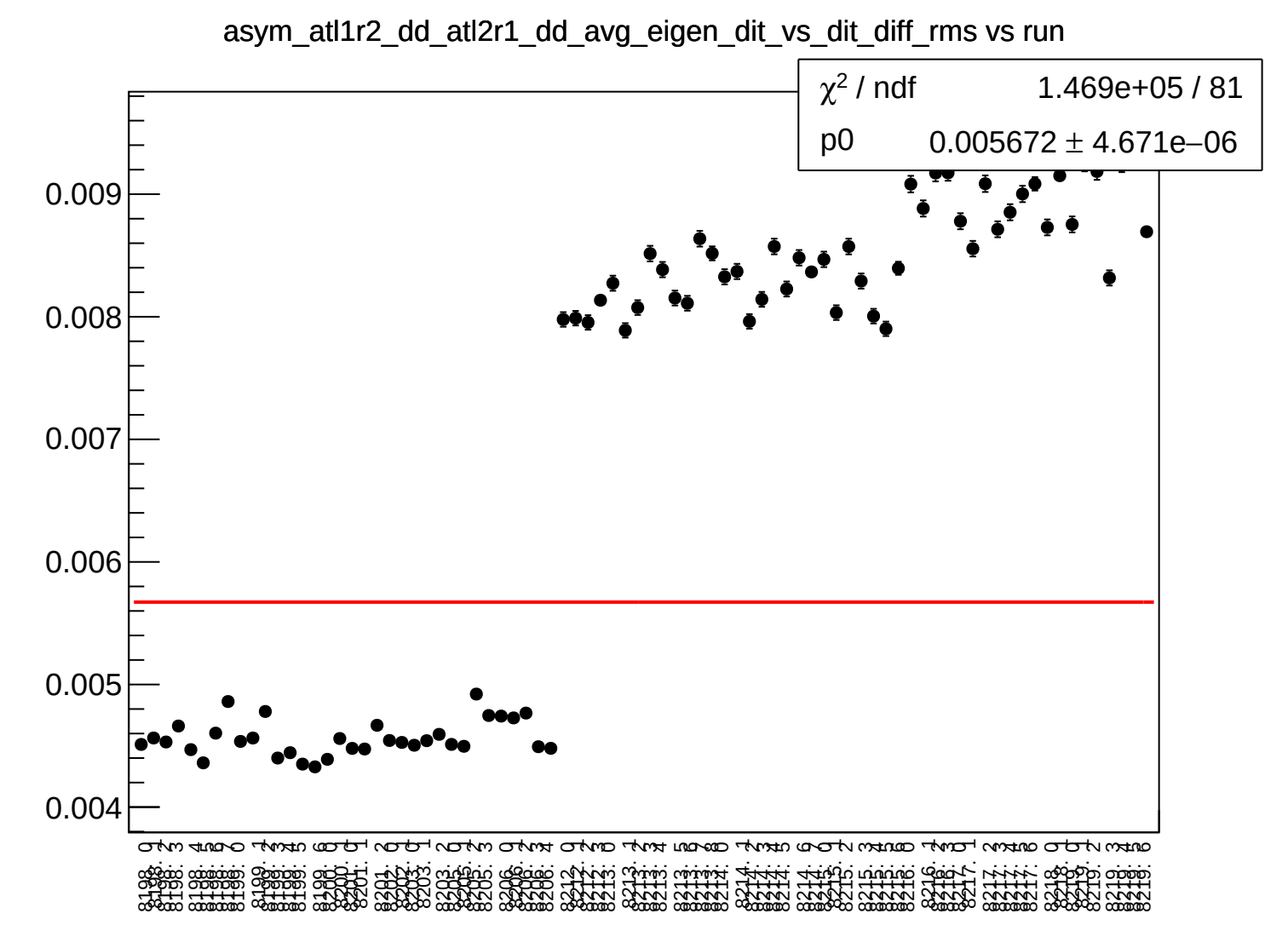

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.3 / 81
p0 0.01139 ± 0.04999
pull
Entries 82
Mean −1608
Std Dev 0

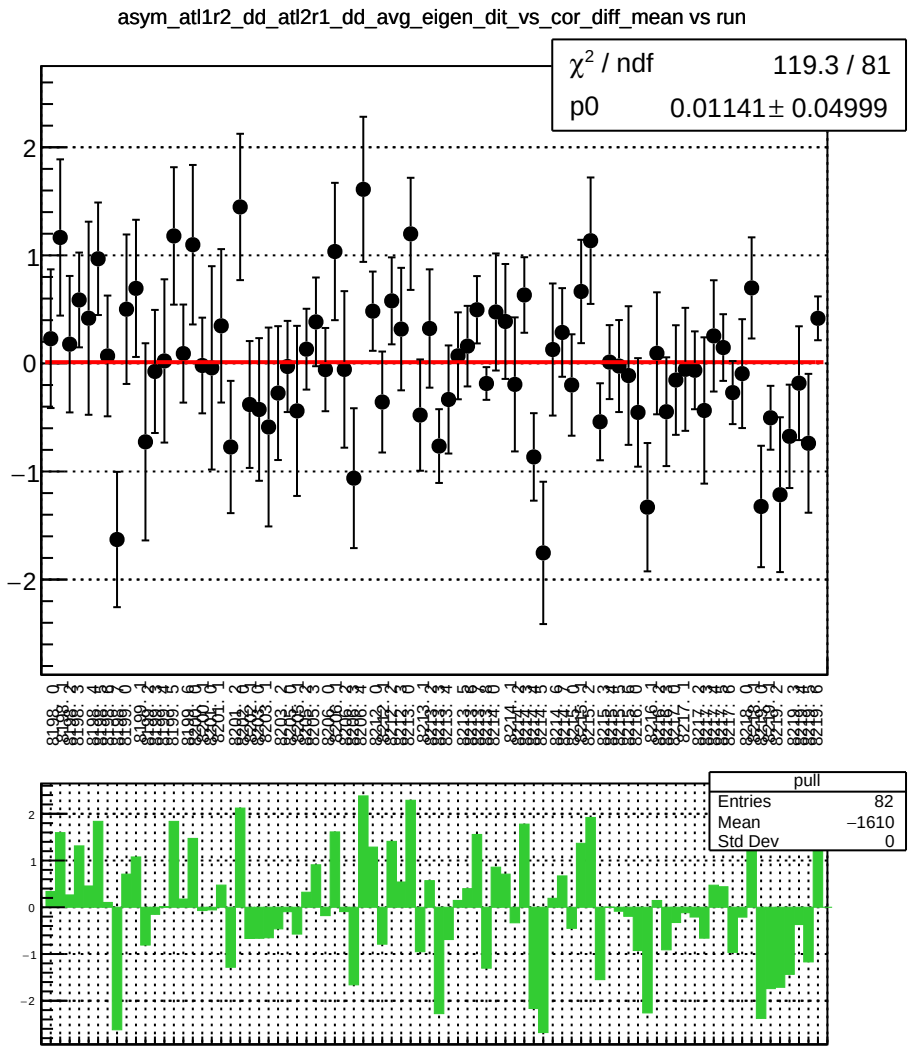

pull1D
Entries 82
Mean 0.004469
Std Dev 1.206

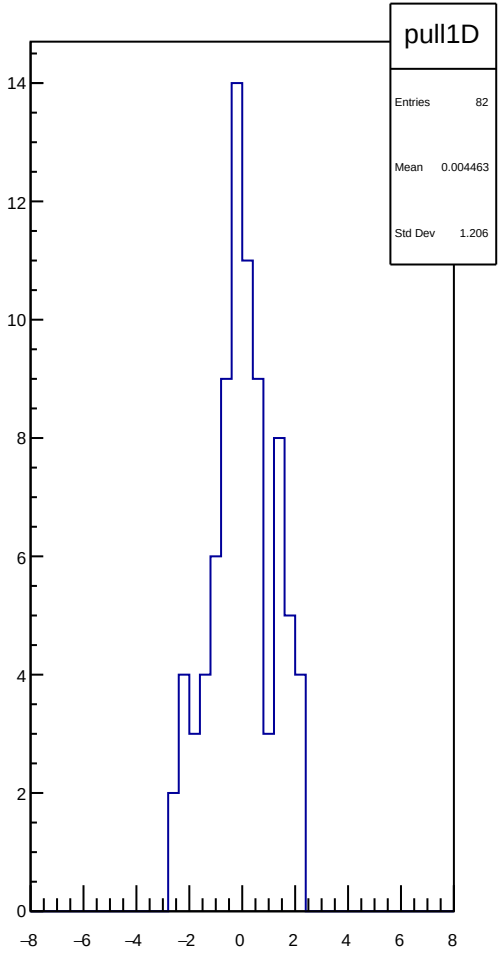

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.107e+05 / 81
p0 41.98 ± 0.03535
90
80
70
60
50
40
30
20
10

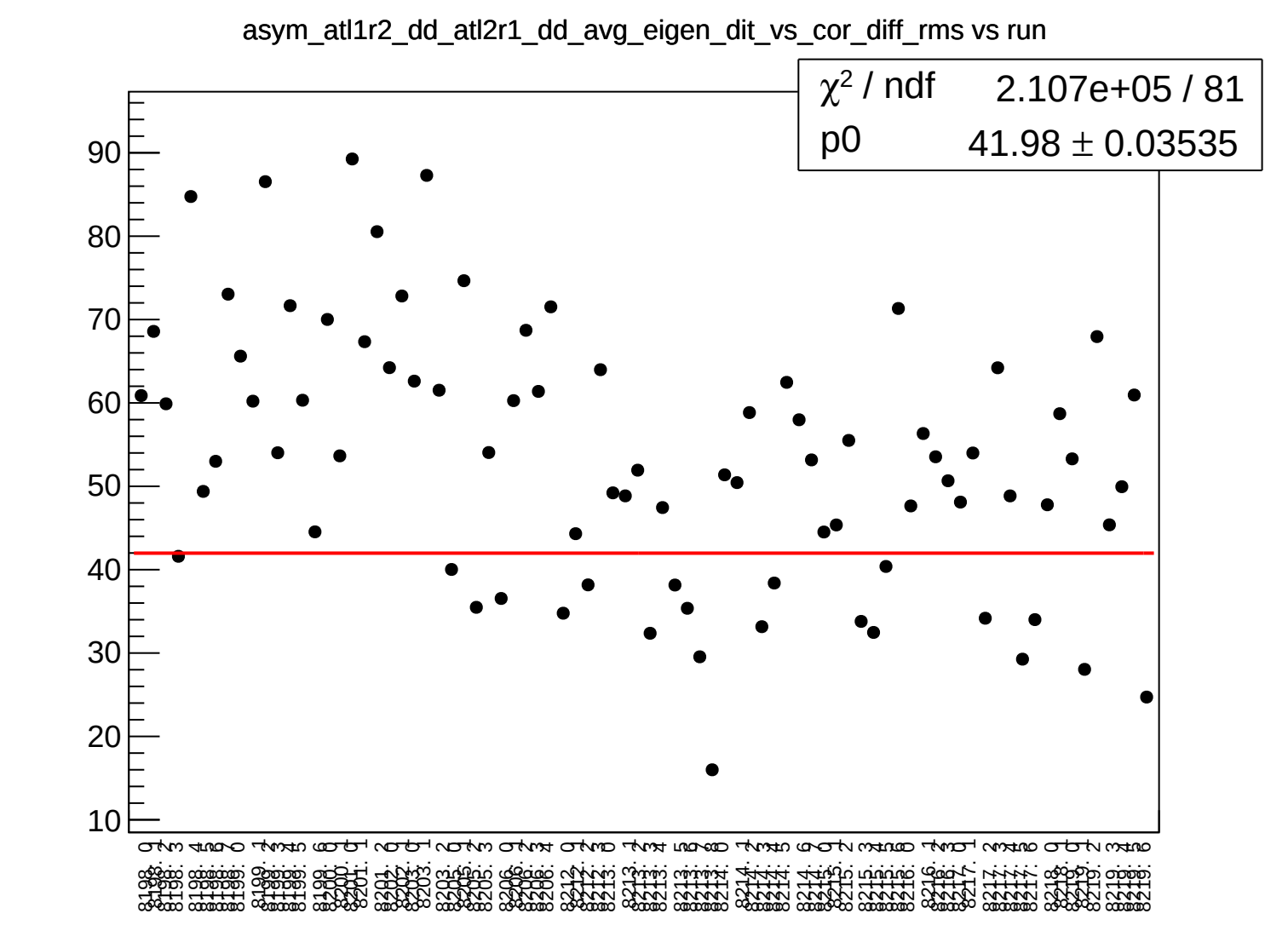

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.63 / 81
p0 9.489e−06 ± 6.606e−06
pull
Entries 82
Mean 689.3
Std Dev 0

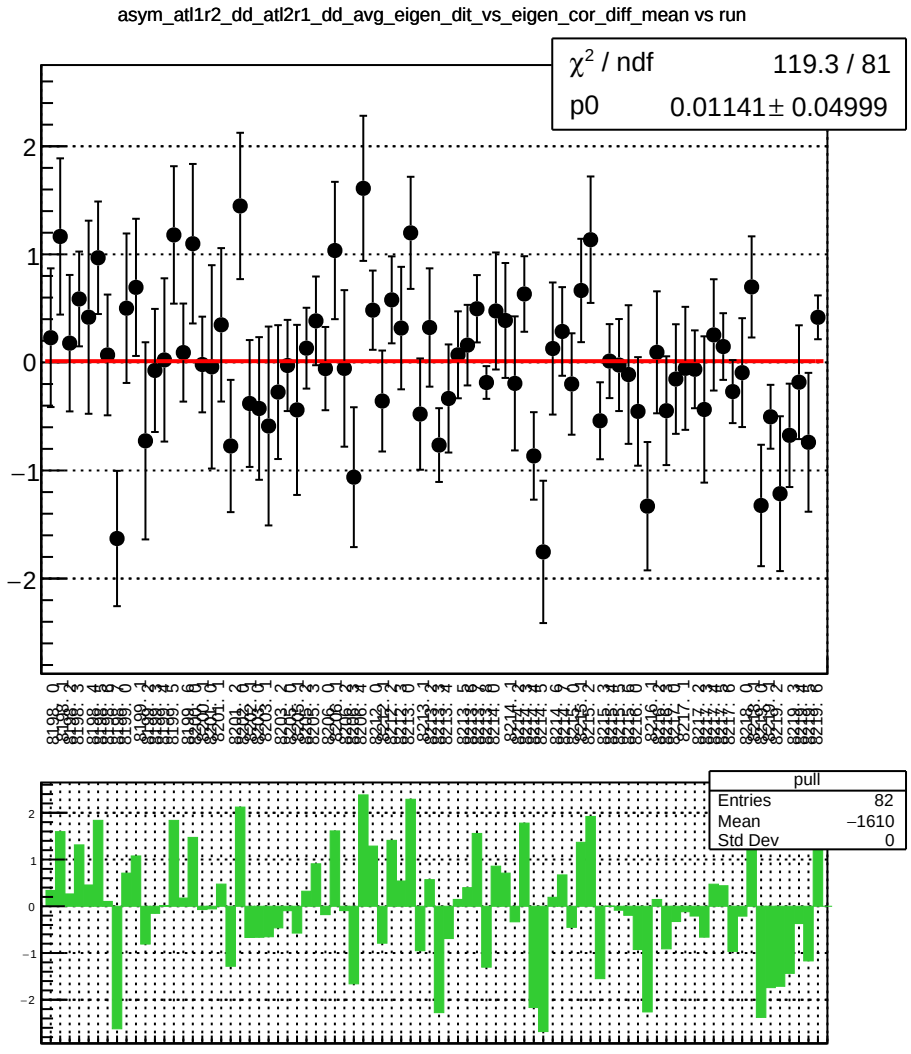

pull1D
Entries 82
Mean 0.007136
Std Dev 1.08

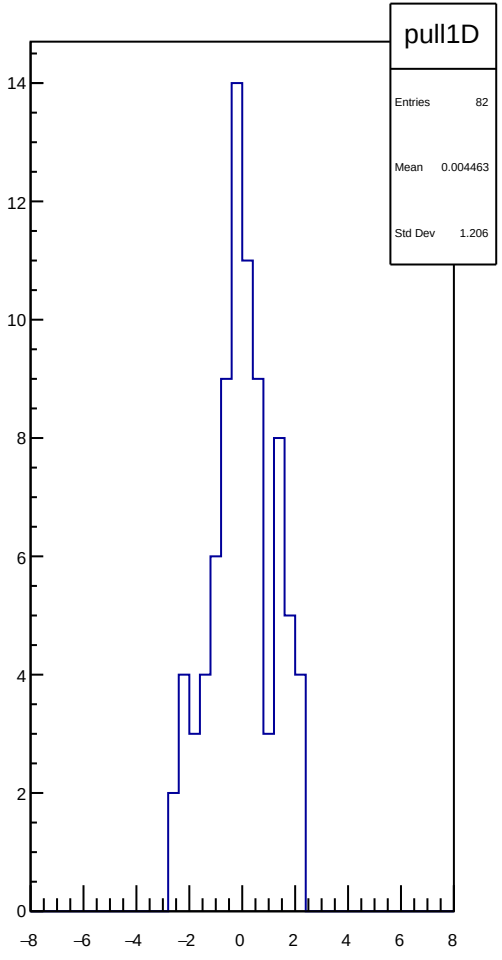

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.469e+05 / 81
p0 0.005672 ± 4.671e−06
0.009
0.008
0.007
0.006
0.005
0.004

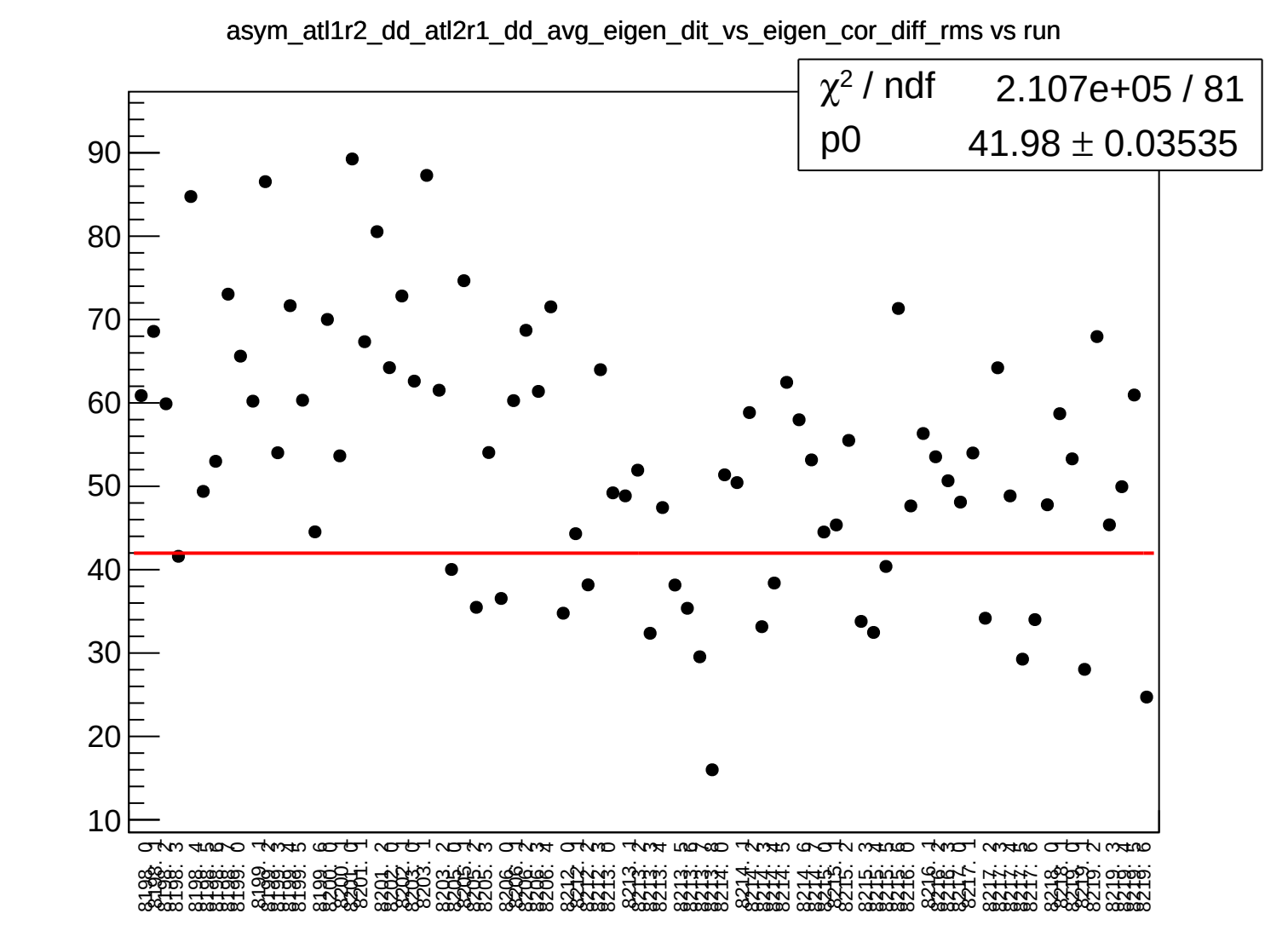

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.3 / 81
p0 0.01141 ± 0.04999
pull
Entries 82
Mean −1610
Std Dev 0

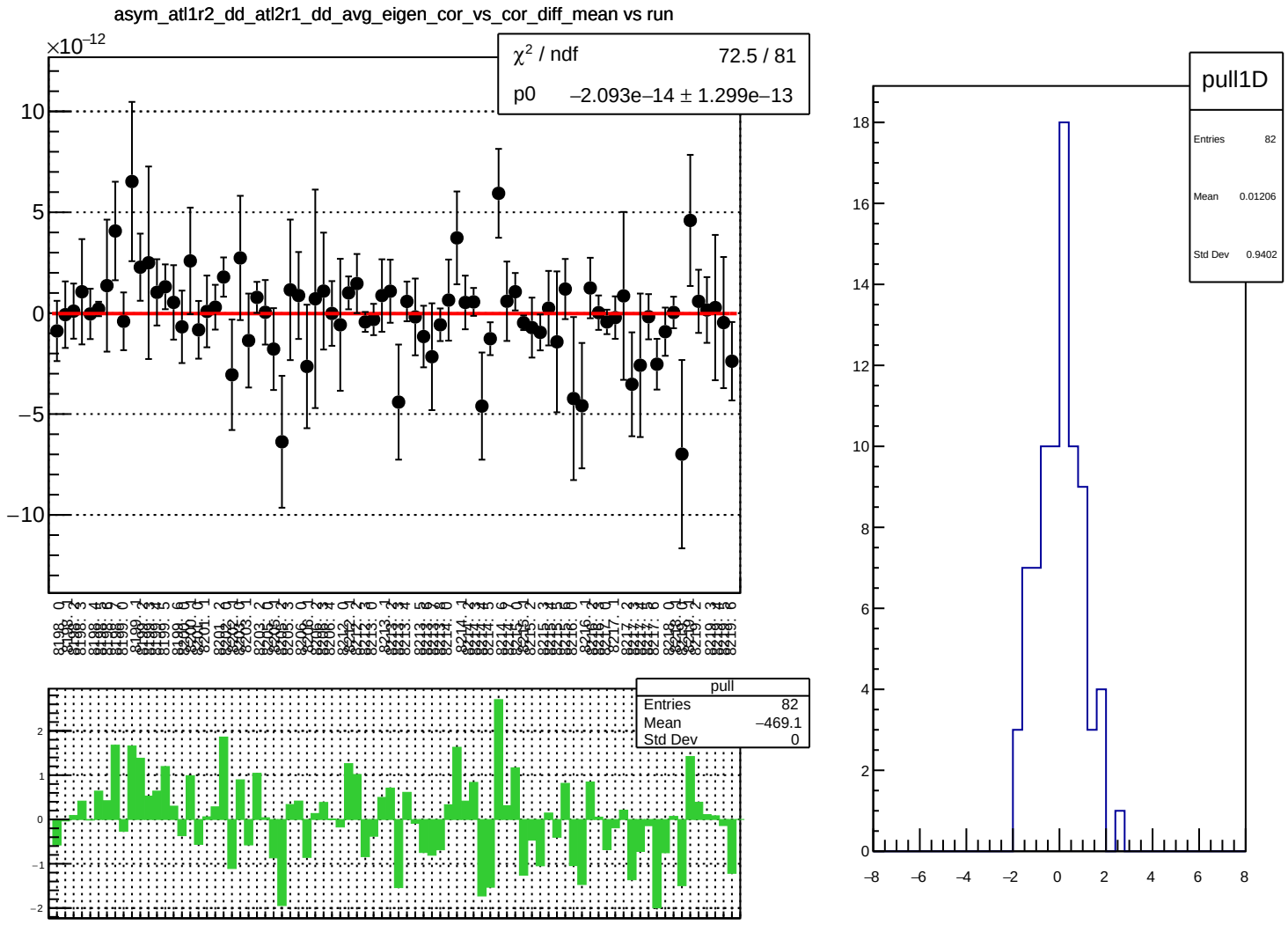

pull1D
Entries 82
Mean 0.004463
Std Dev 1.206

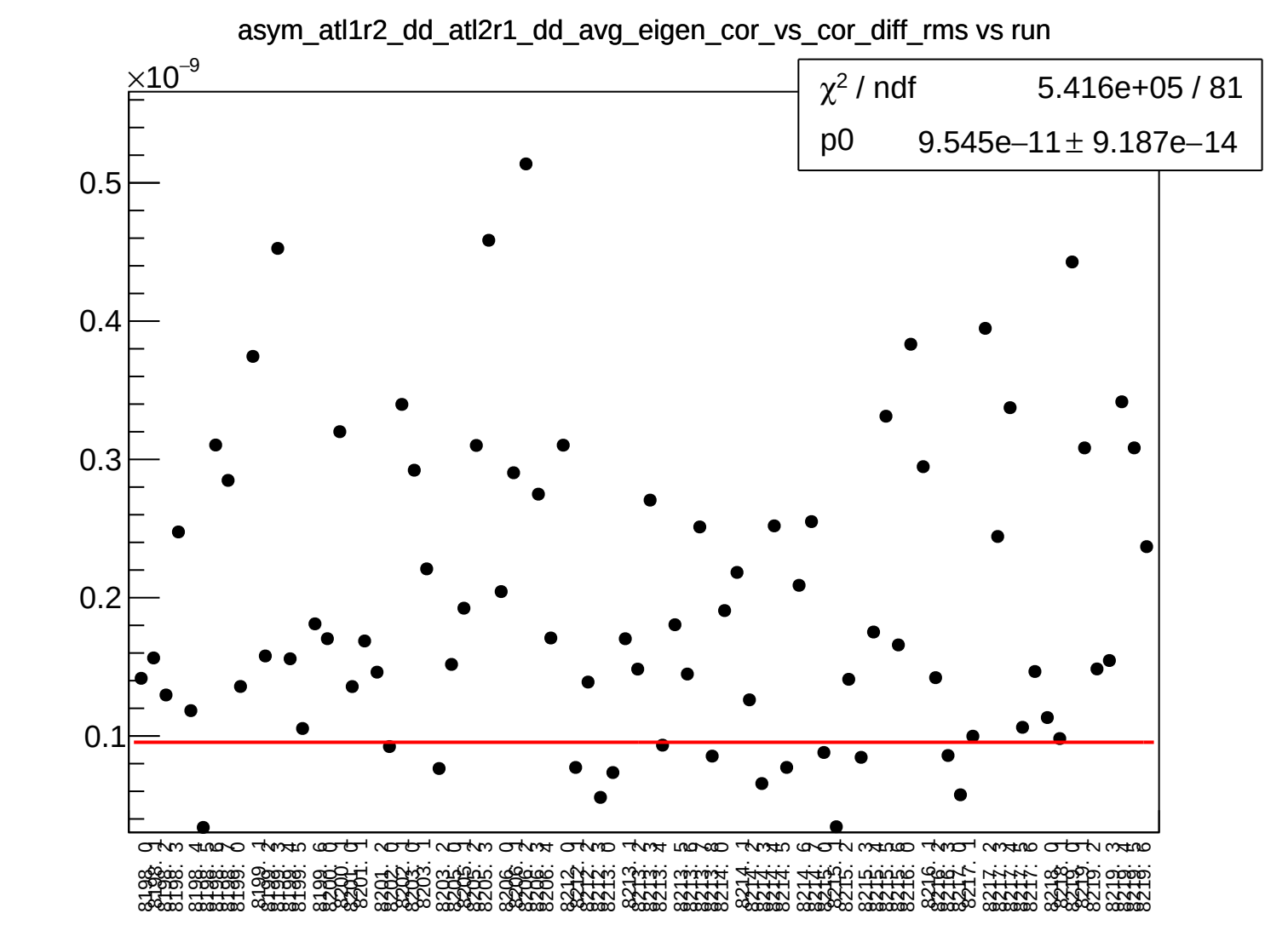

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.107e+05 / 81
p0 41.98 ± 0.03535
90
80
70
60
50
40
30
20
10

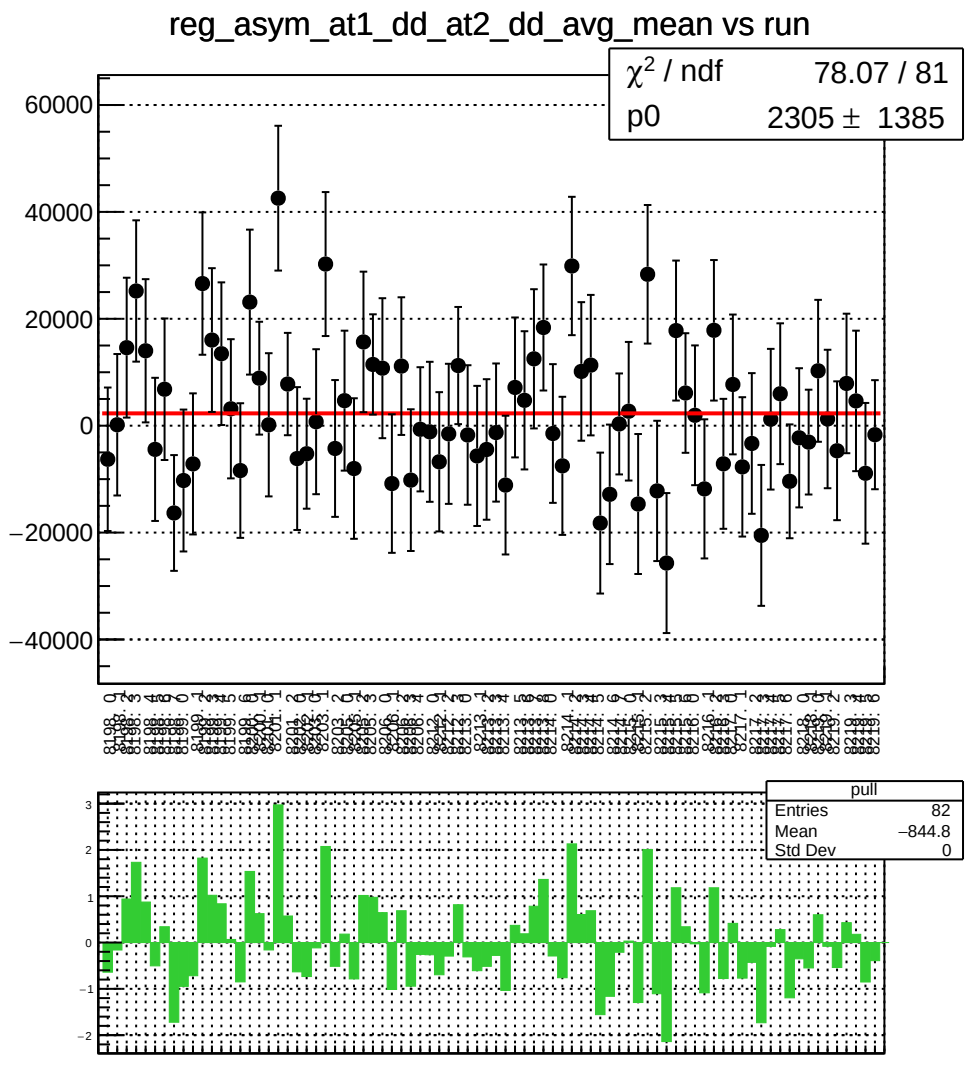

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.3 / 81
p0 0.01141 ± 0.04999
pull
Entries 82
Mean −1610
Std Dev 0

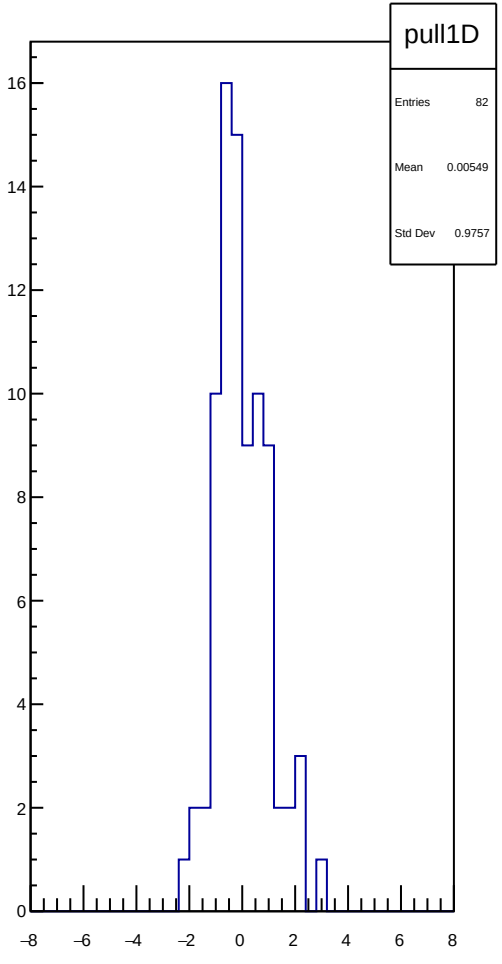

pull1D
Entries 82
Mean 0.004463
Std Dev 1.206

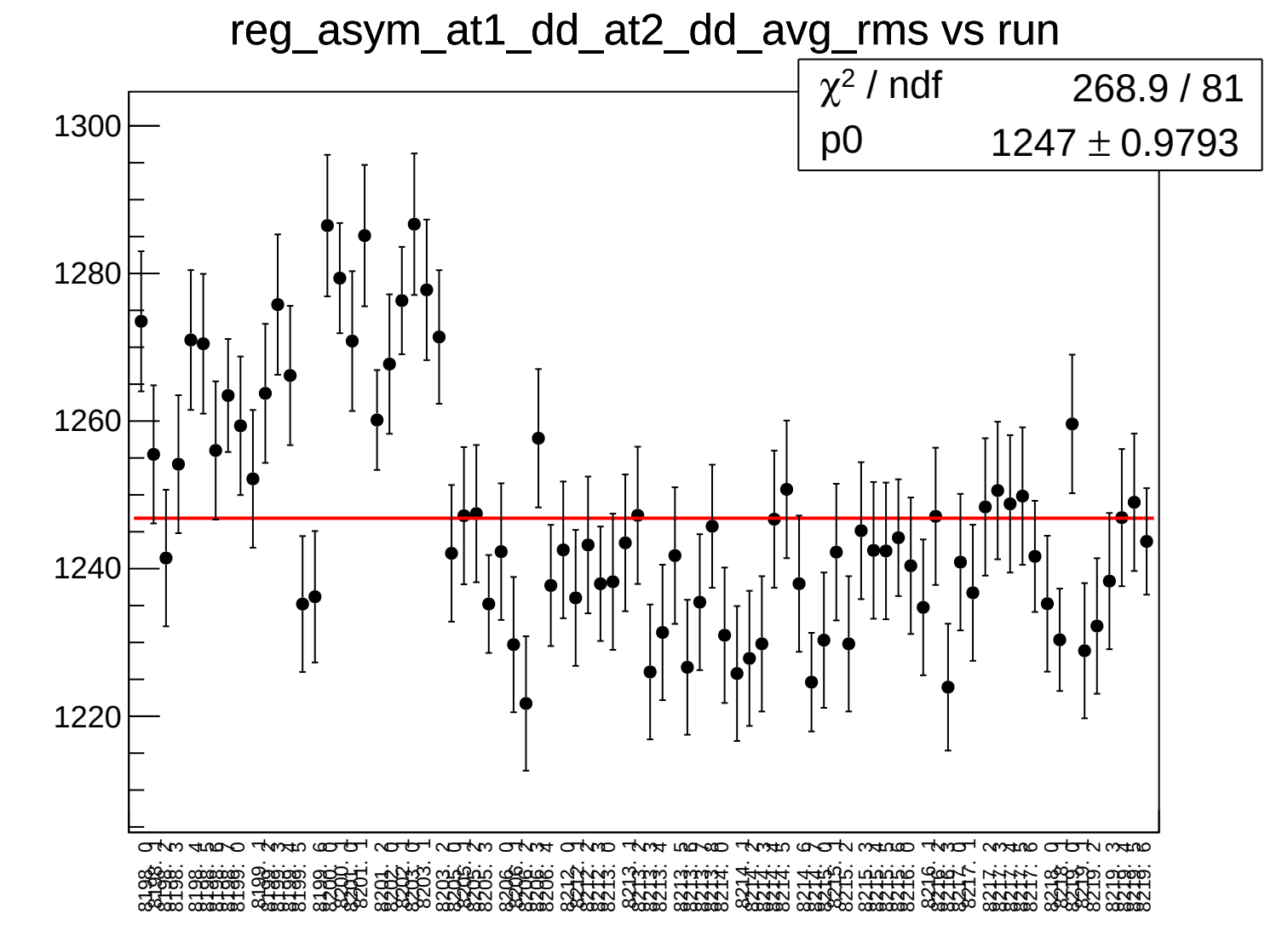

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.107e+05 / 81
p0 41.98 ± 0.03535
90
80
70
60
50
40
30
20
10

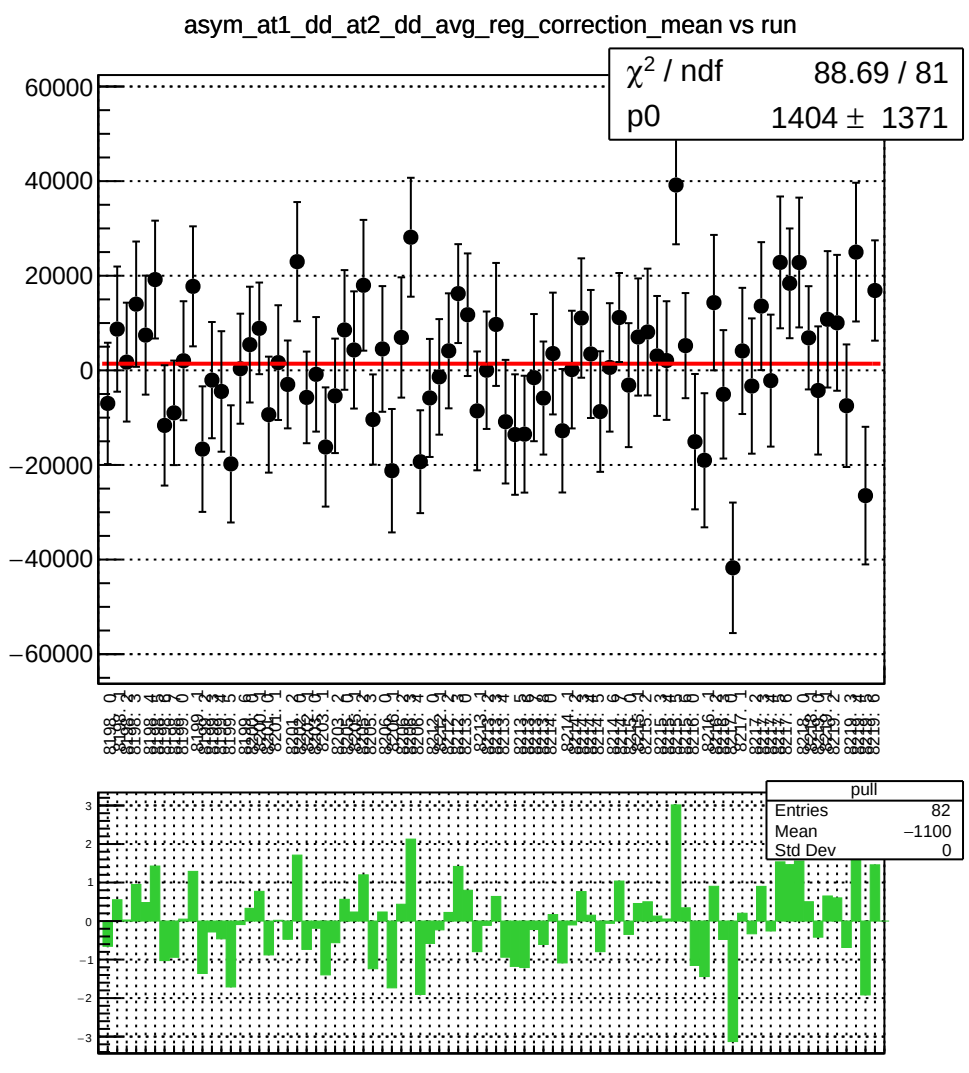

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.5 / 81
p0 −2.093e−14 ± 1.299e−13
pull
Entries 82
Mean −469.1
Std Dev 0
pull1D
Entries 82
Mean 0.01206
Std Dev 0.9402

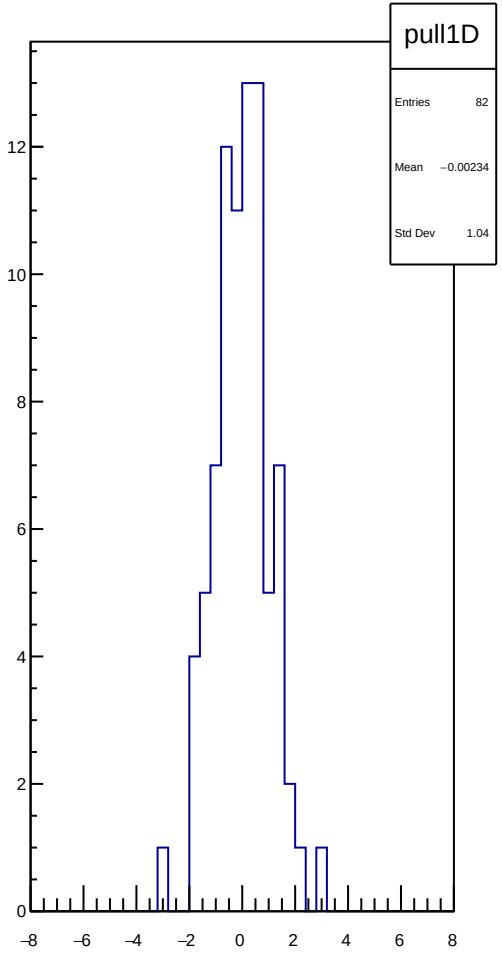

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.416e+05 / 81
p0 9.545e−11 ± 9.187e−14
0.5
0.4
0.3
0.2
0.1

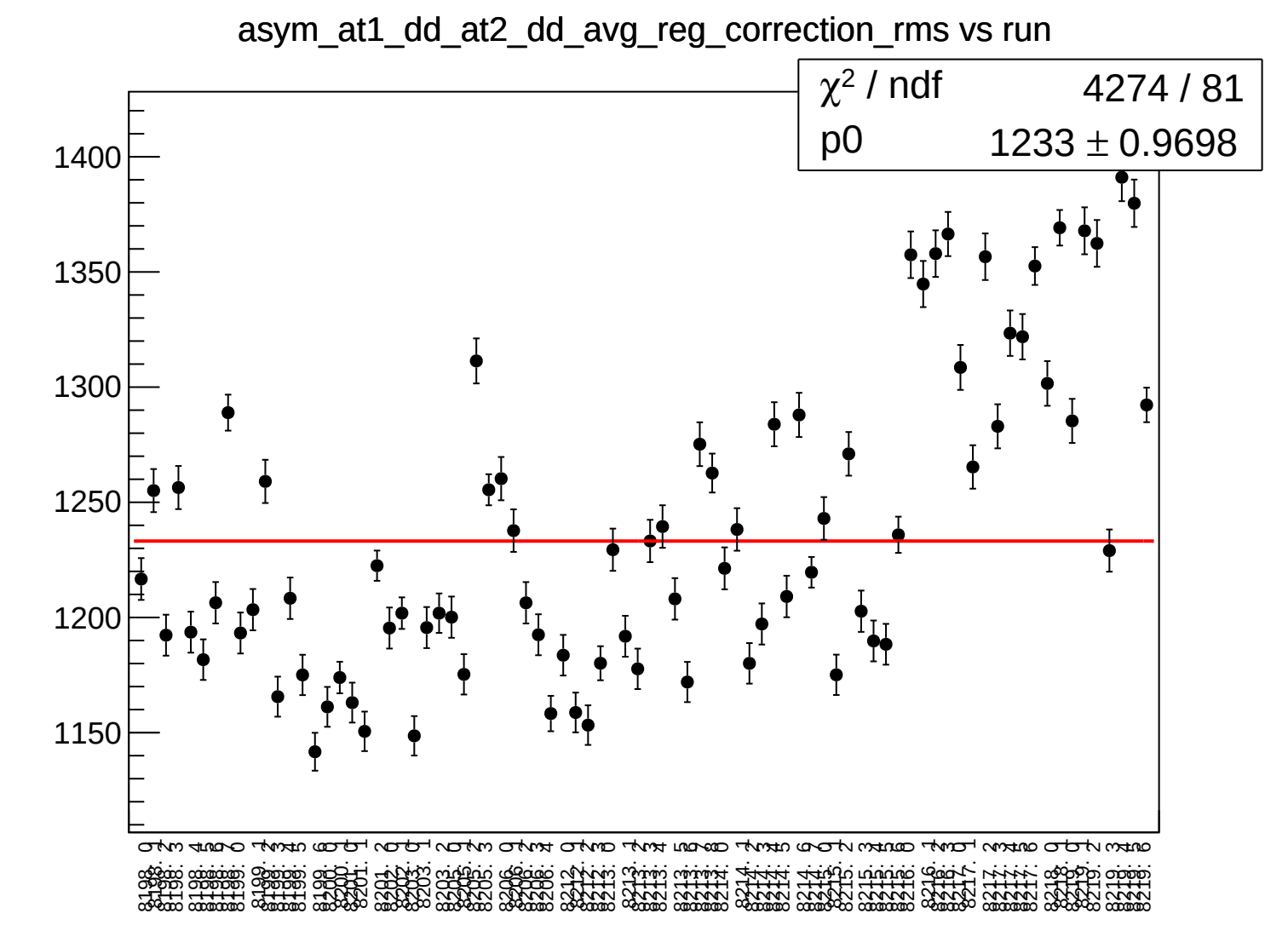

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 78.07 / 81
p0 2305 ± 1385
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −844.8
Std Dev 0
3
2
1
0
−1
−2

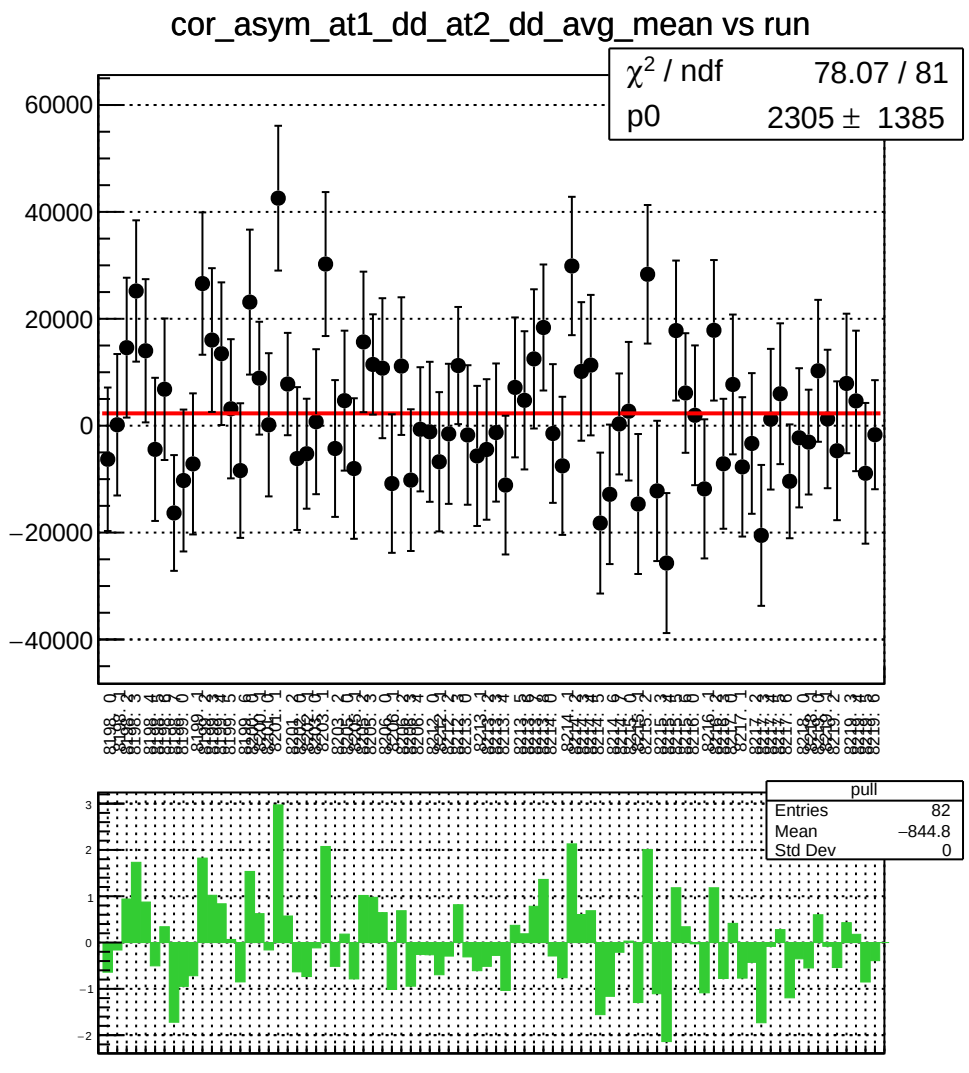

pull1D
Entries 82
Mean 0.00549
Std Dev 0.9757
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

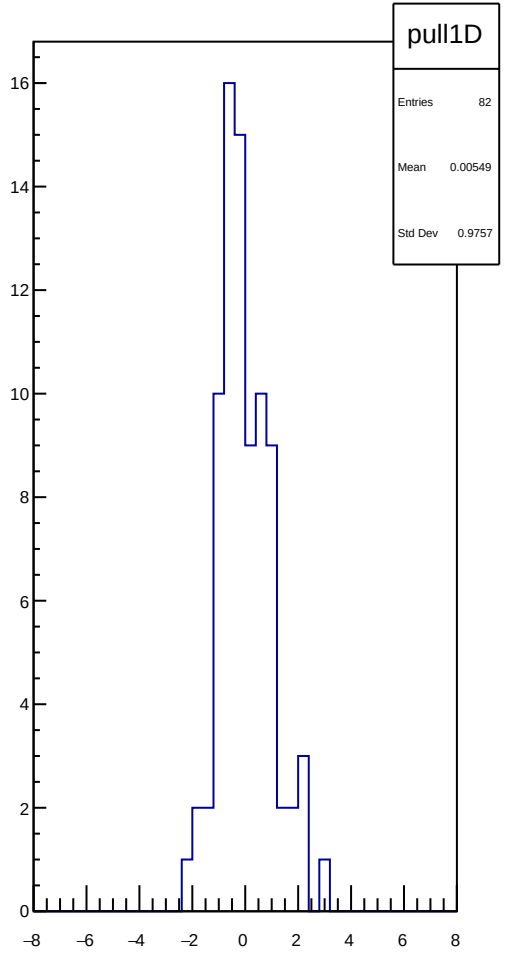

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 268.9 / 81
p0 1247 ± 0.9793
1300
1280
1260
1240
1220

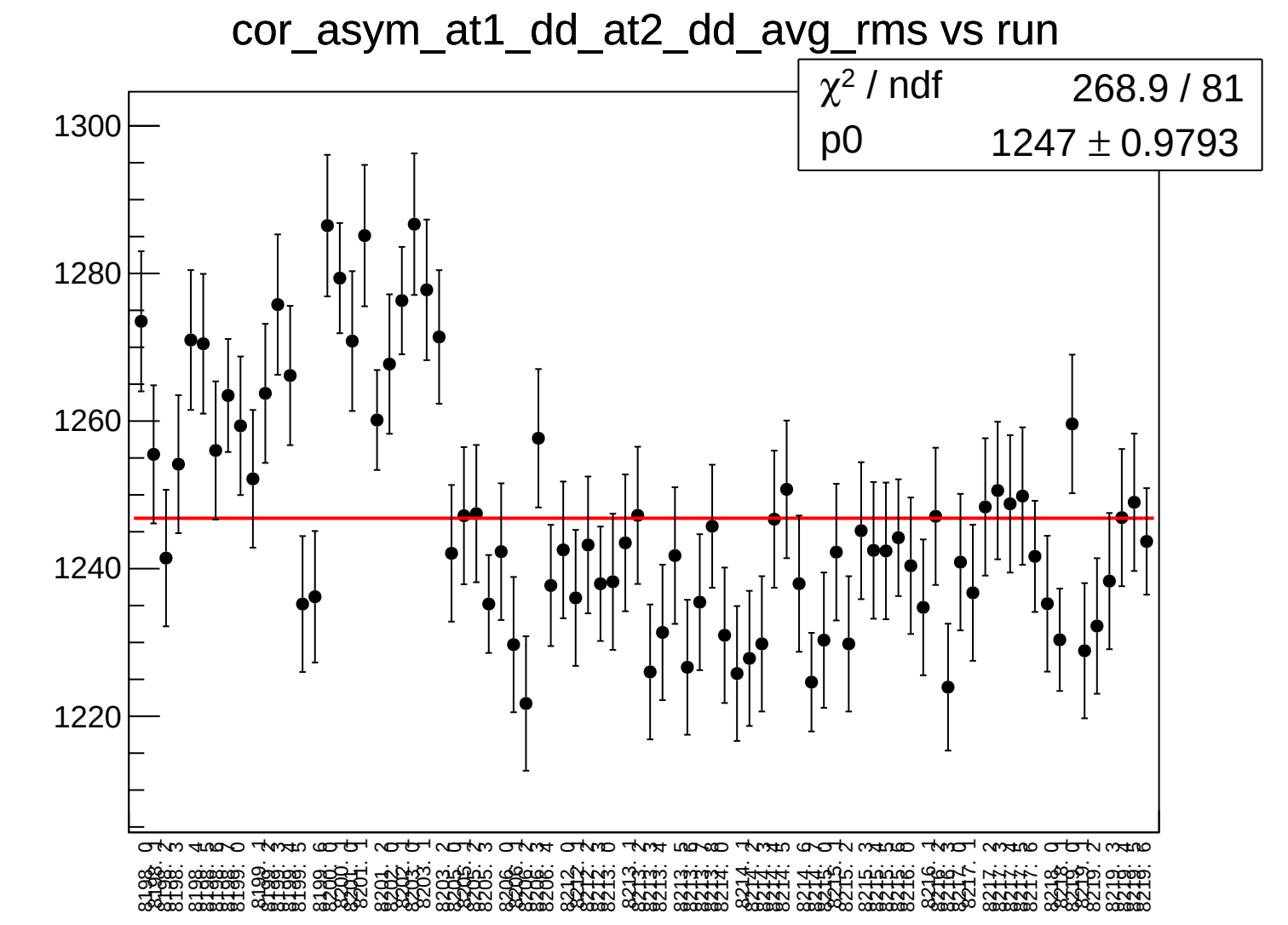

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 88.69 / 81
p0 1404 ± 1371
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −1100
Std Dev 0
3
2
1
0
−1
−2
−3

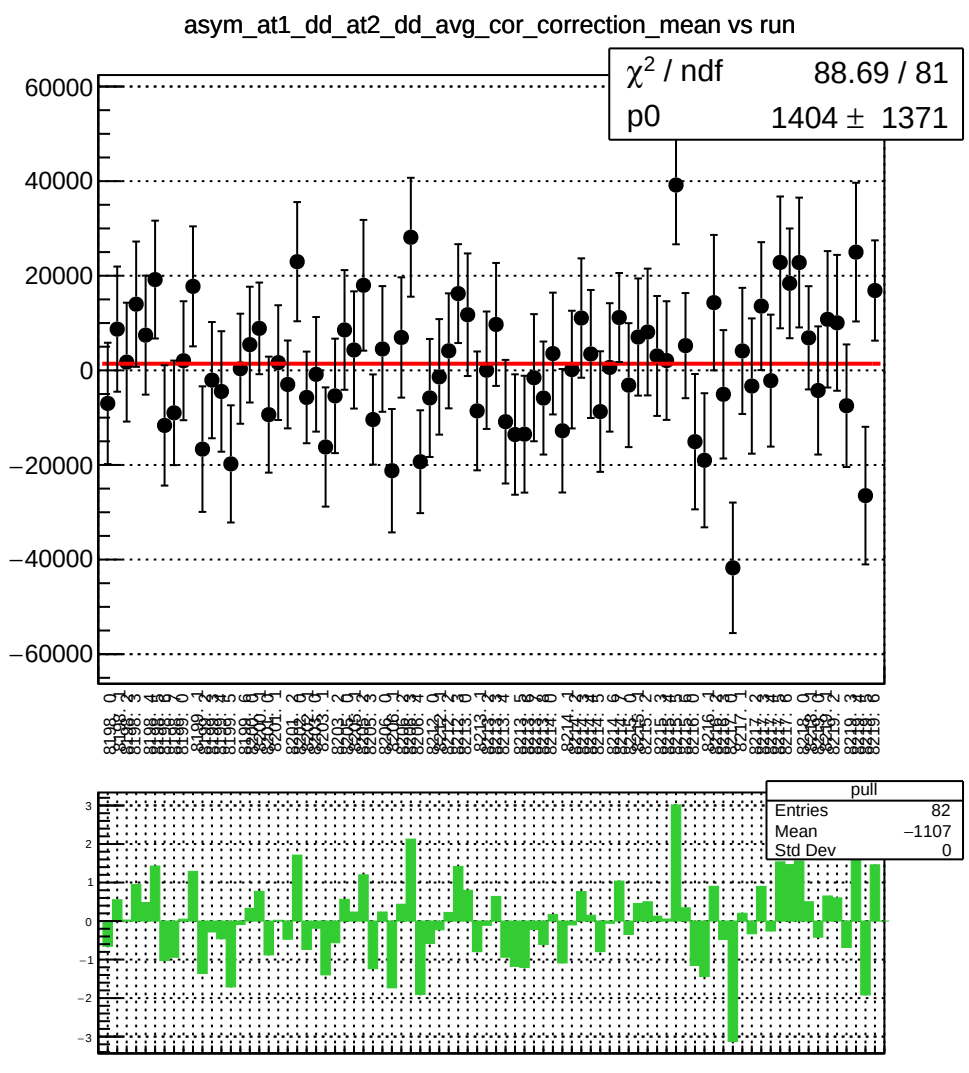

pull1D
Entries 82
Mean −0.00234
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

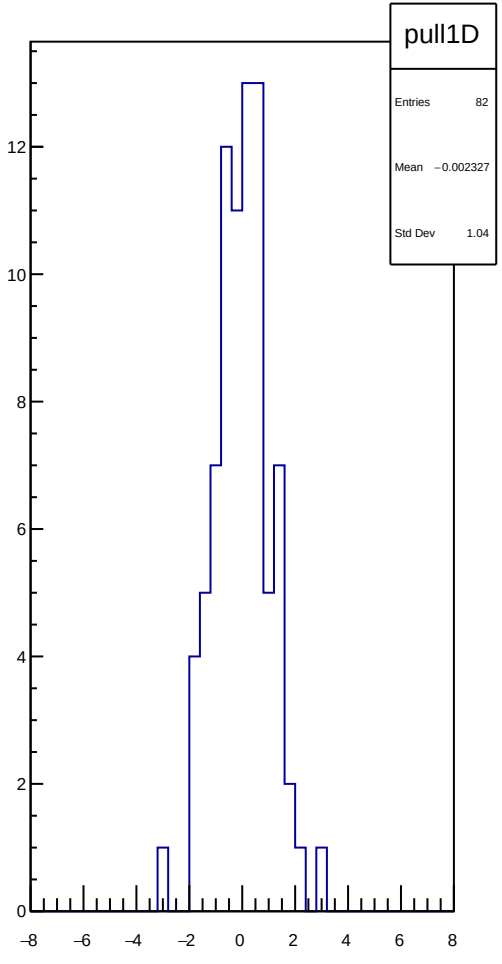

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 4274 / 81
p0 1233 ± 0.9698
1400
1350
1300
1250
1200
1150

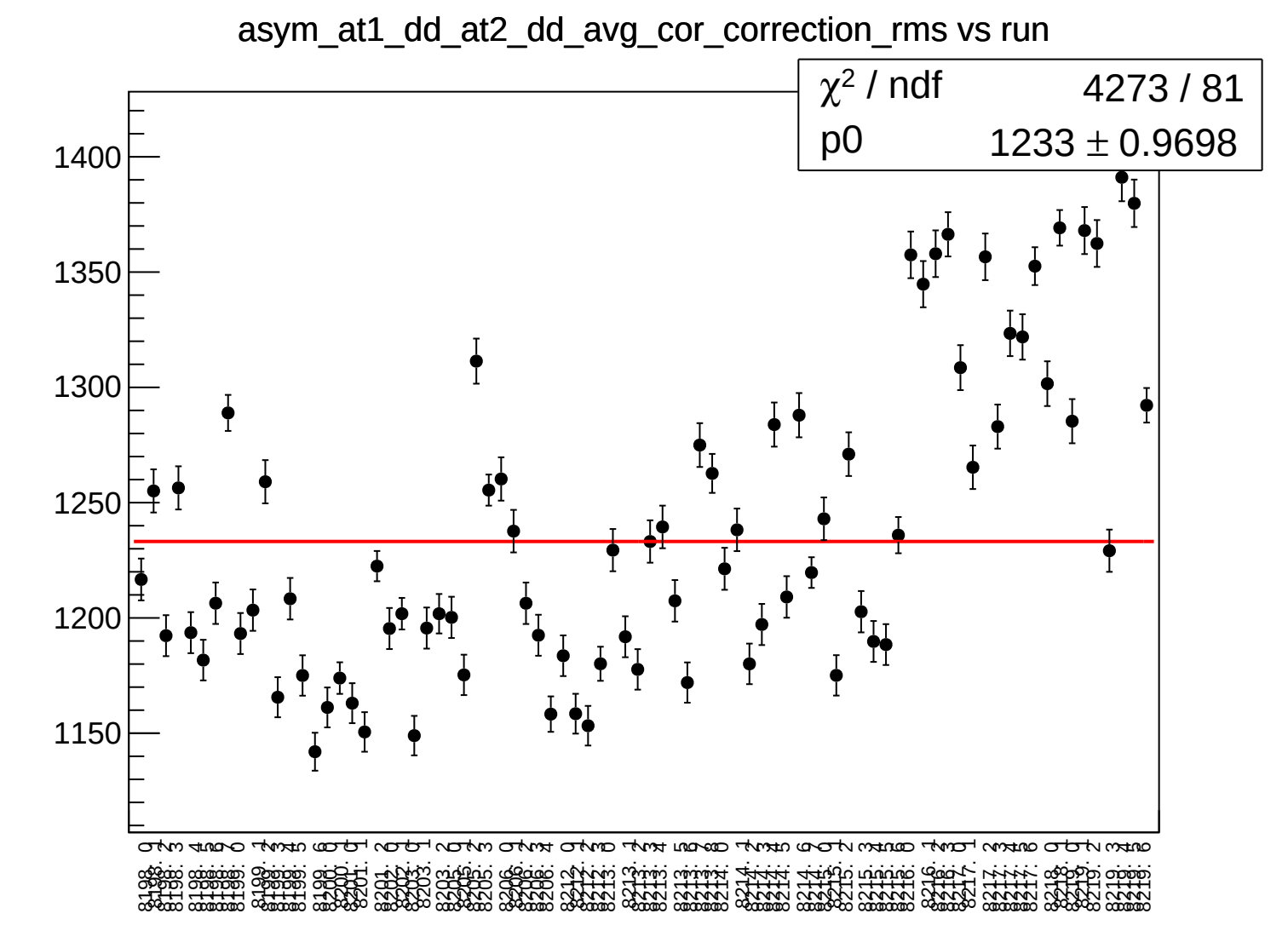

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 78.07 / 81
p0 2305 ± 1385
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −844.8
Std Dev 0
3
2
1
0
−1
−2

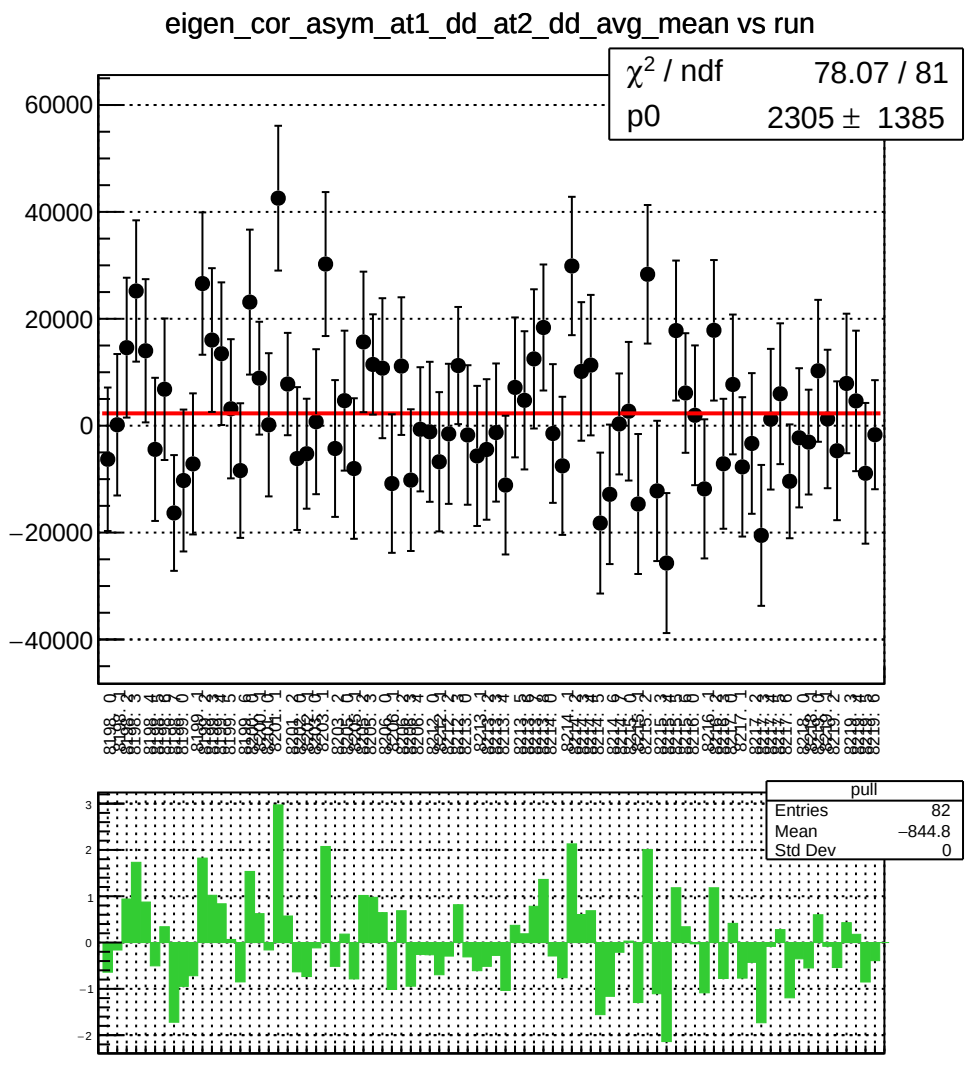

pull1D
Entries 82
Mean 0.00549
Std Dev 0.9757
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

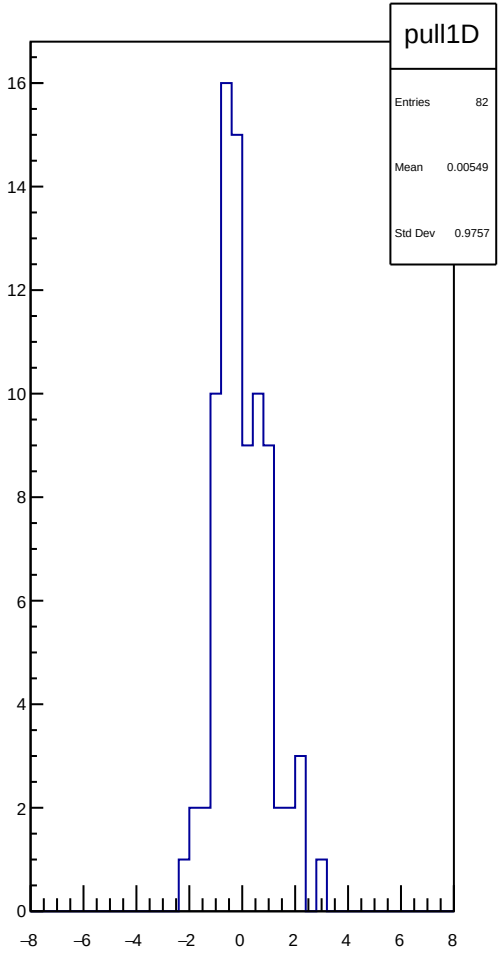

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 268.9 / 81
p0 1247 ± 0.9793
1300
1280
1260
1240
1220

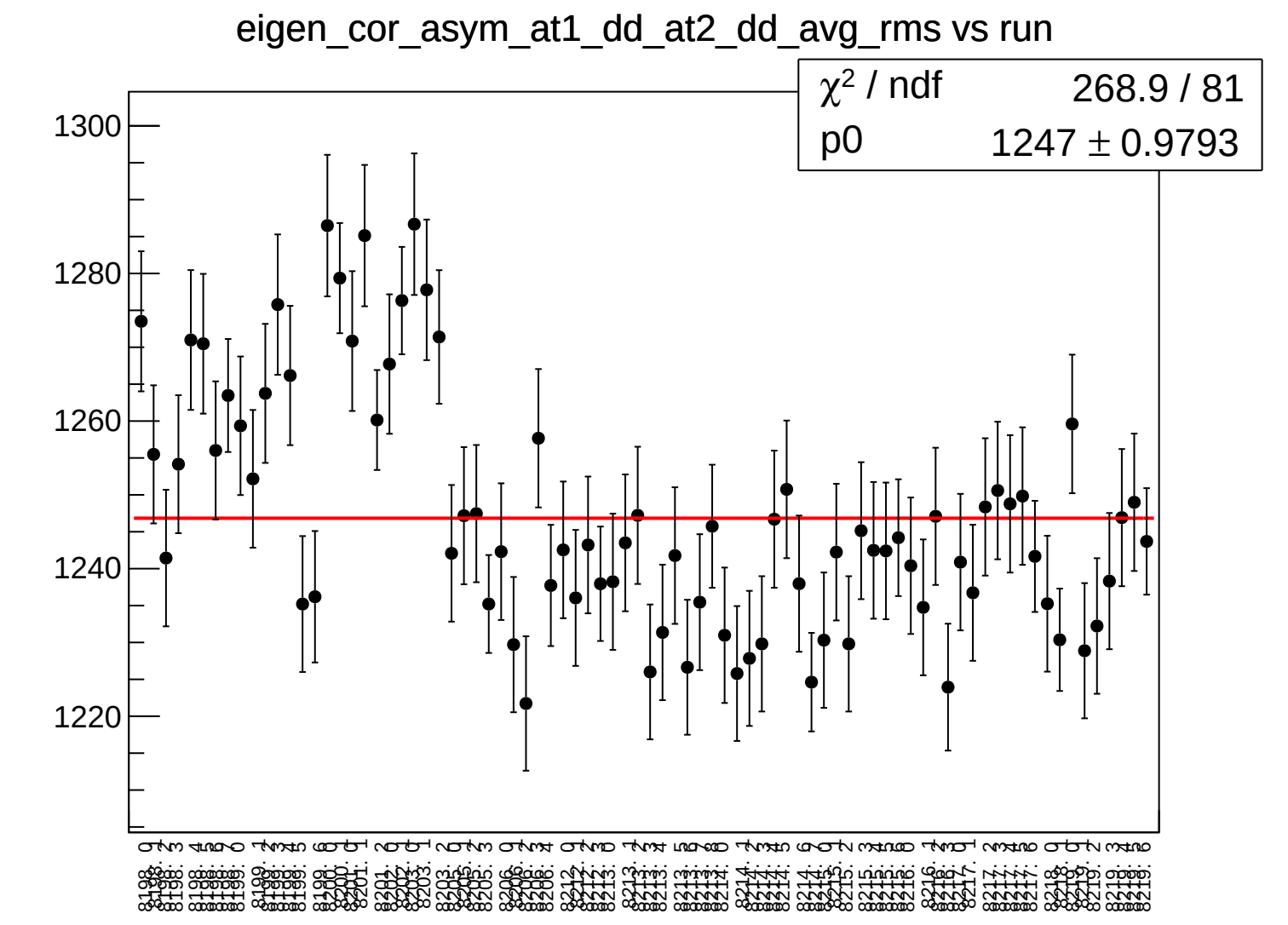

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 88.69 / 81
p0 1404 ± 1371
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −1107
Std Dev 0
3
2
1
0
−1
−2
−3

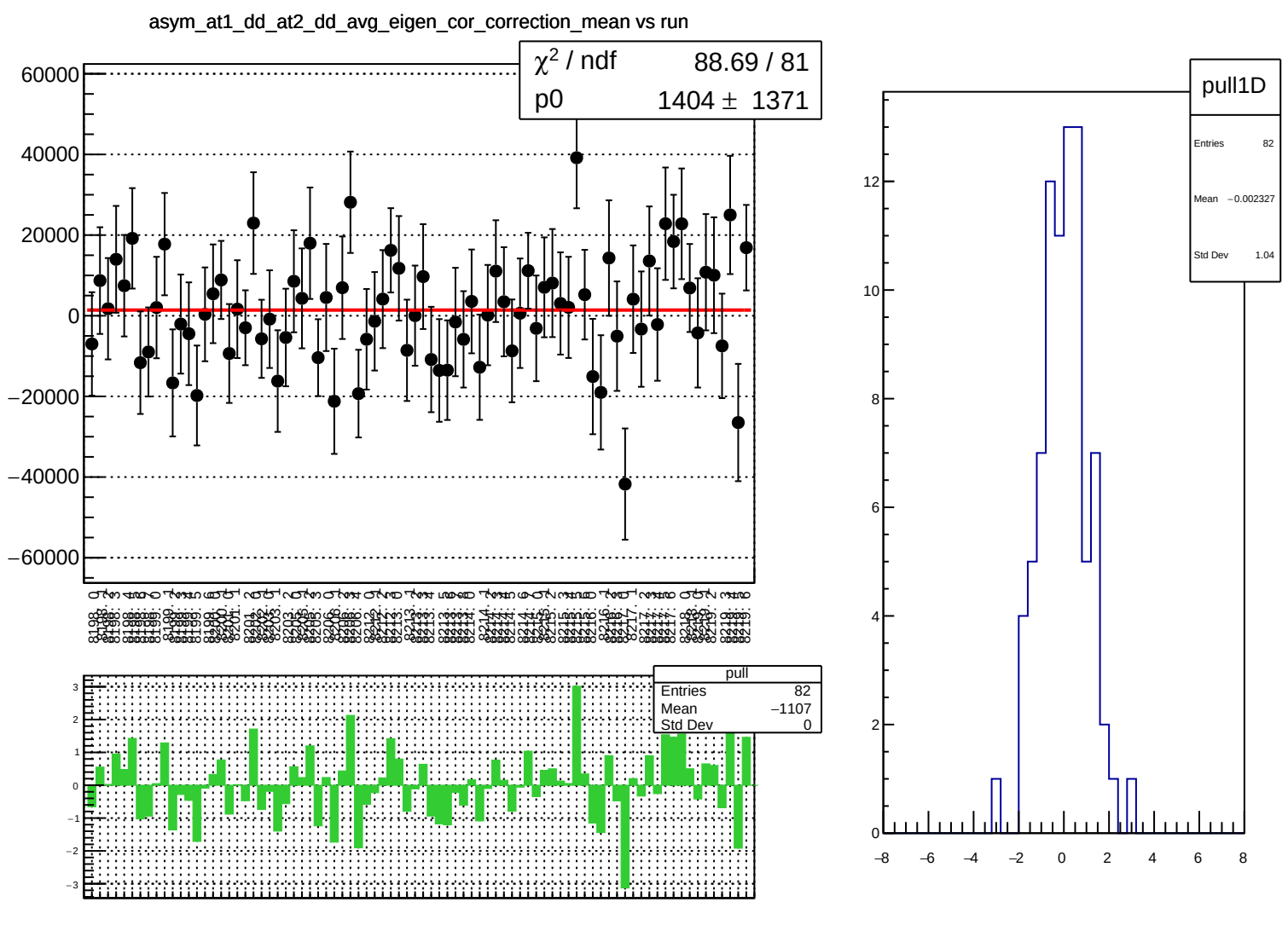

pull1D
Entries 82
Mean −0.002327
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

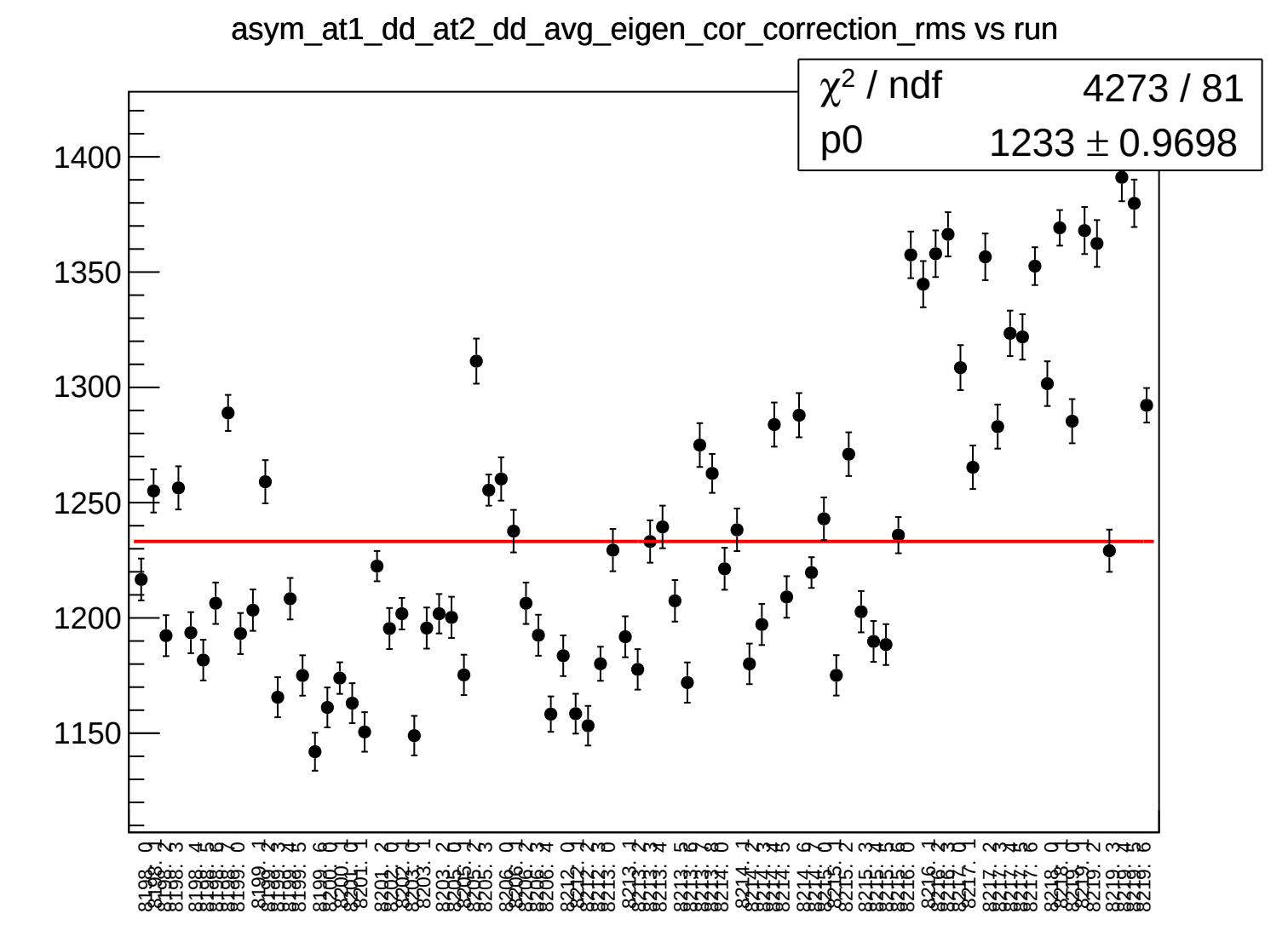

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 4273 / 81
p0 1233 ± 0.9698
1400
1350
1300
1250
1200
1150

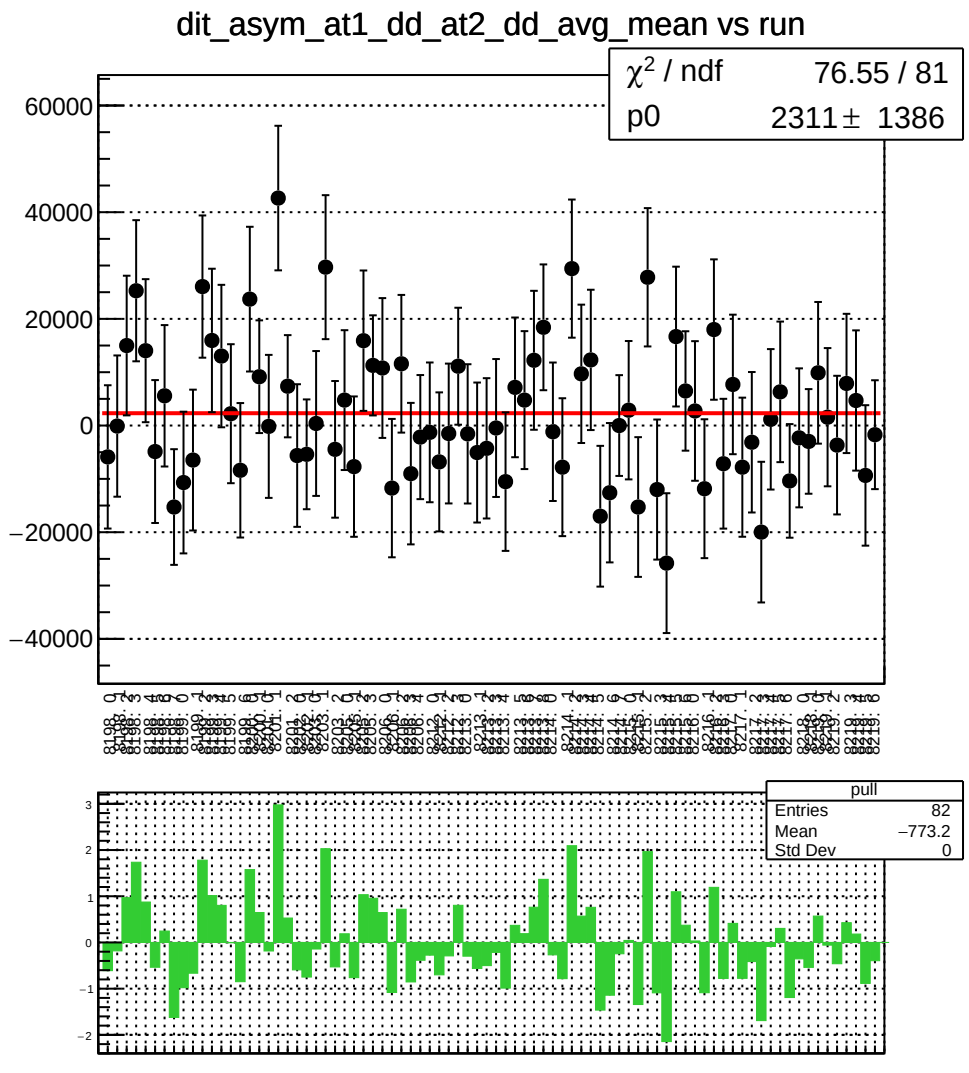

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 78.07 / 81
p0 2305 ± 1385
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −844.8
Std Dev 0
3
2
1
0
−1
−2

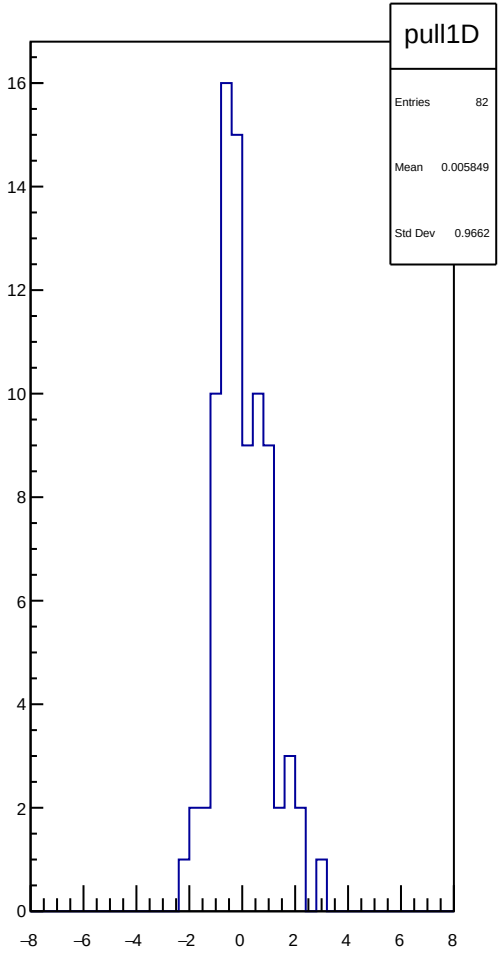

pull1D
Entries 82
Mean 0.00549
Std Dev 0.9757
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

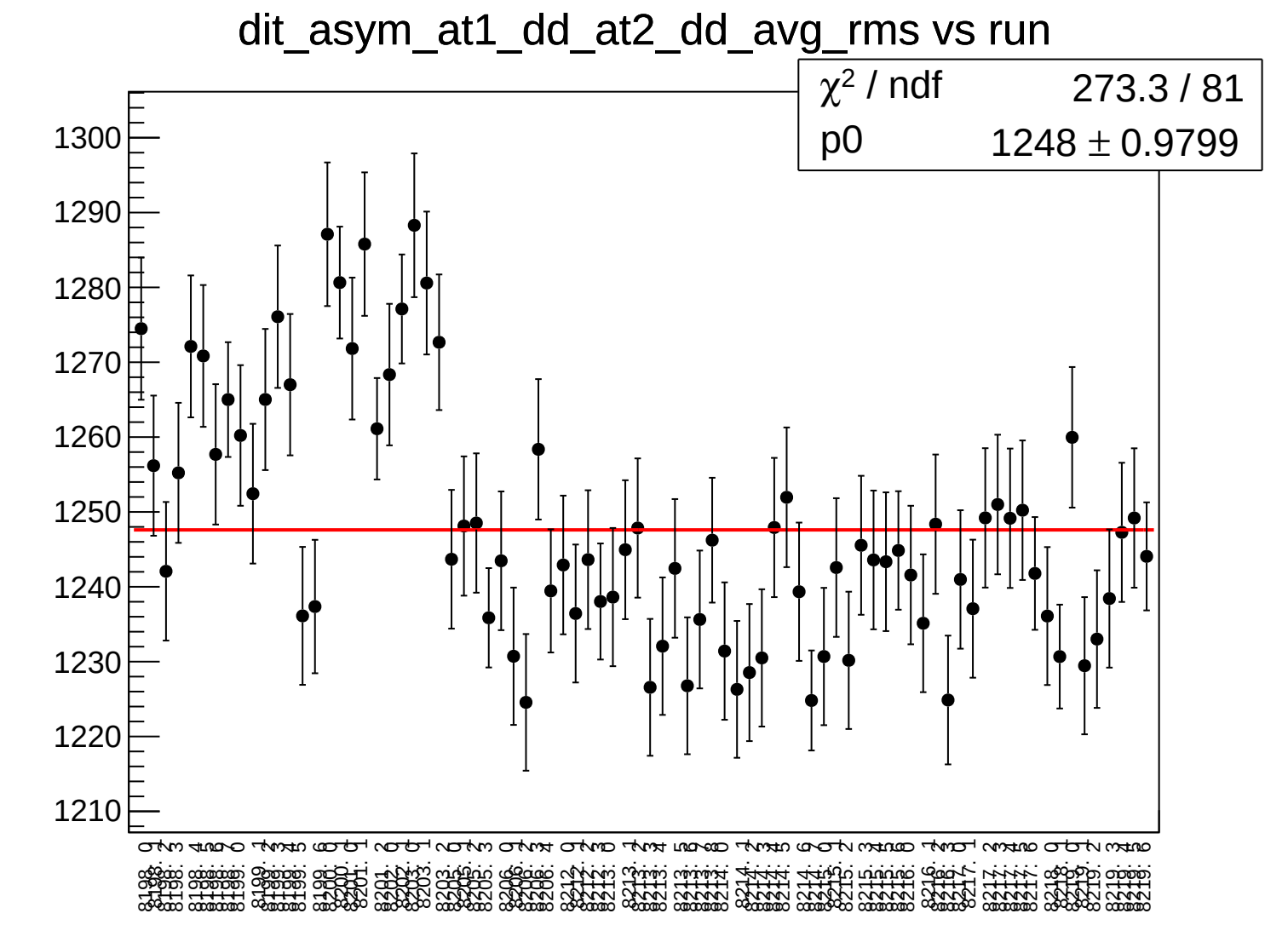

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 268.9 / 81
p0 1247 ± 0.9793
1300
1280
1260
1240
1220

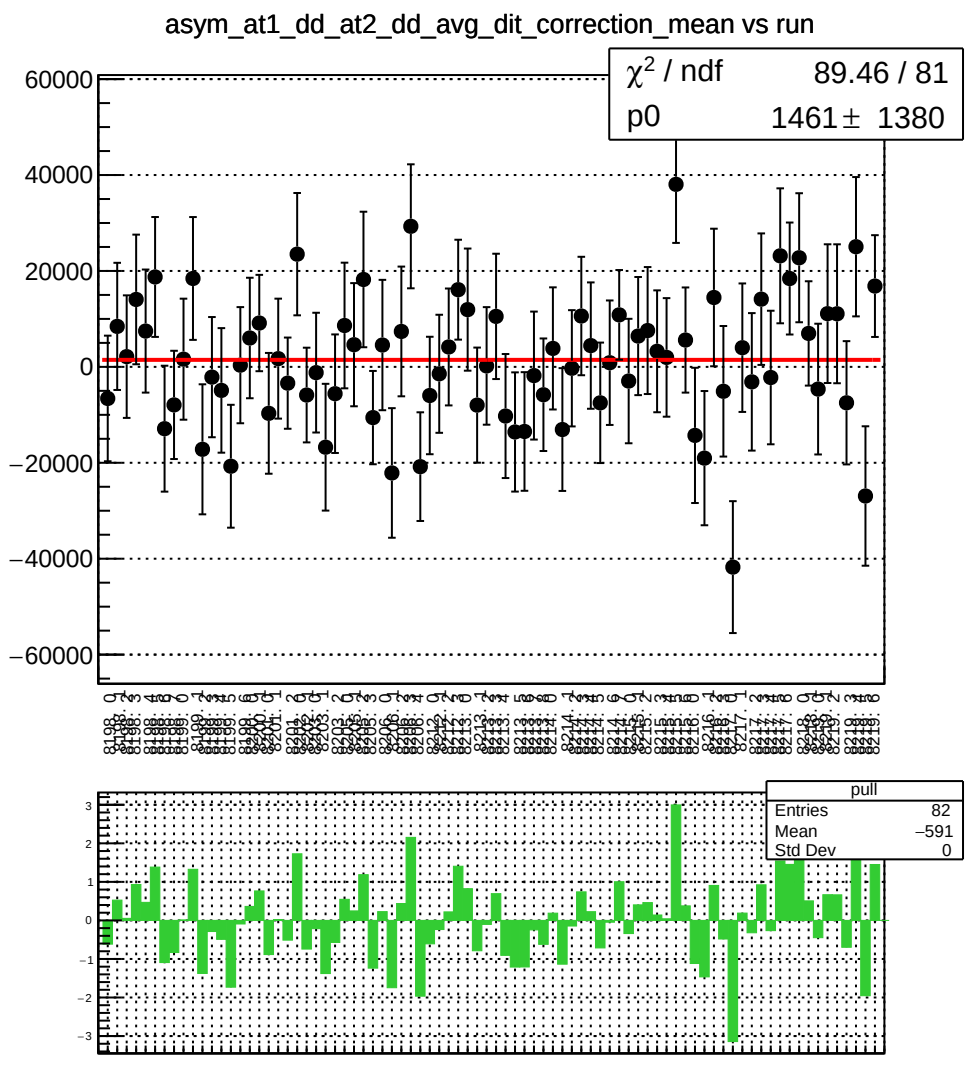

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.69 / 81
p0 1404 ± 1371
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −1107
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.002327
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

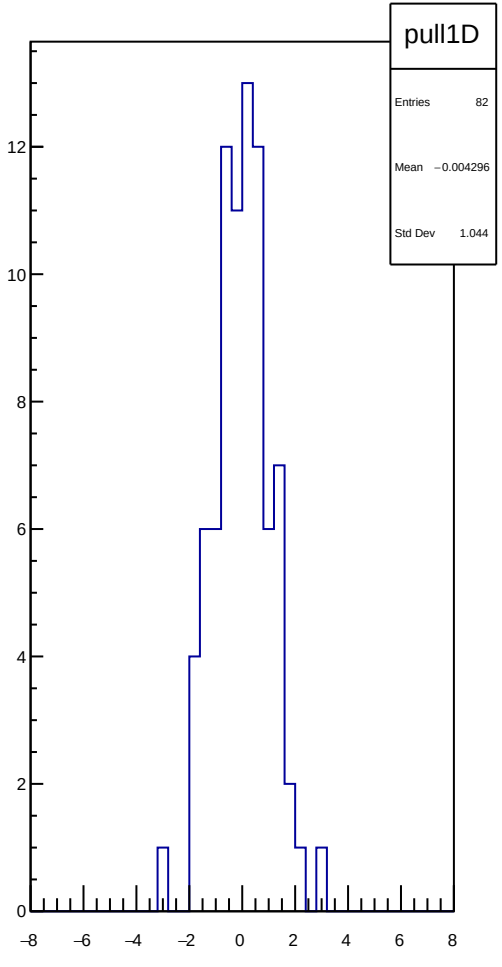

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4273 / 81
p0 1233 ± 0.9698
1400
1350
1300
1250
1200
1150

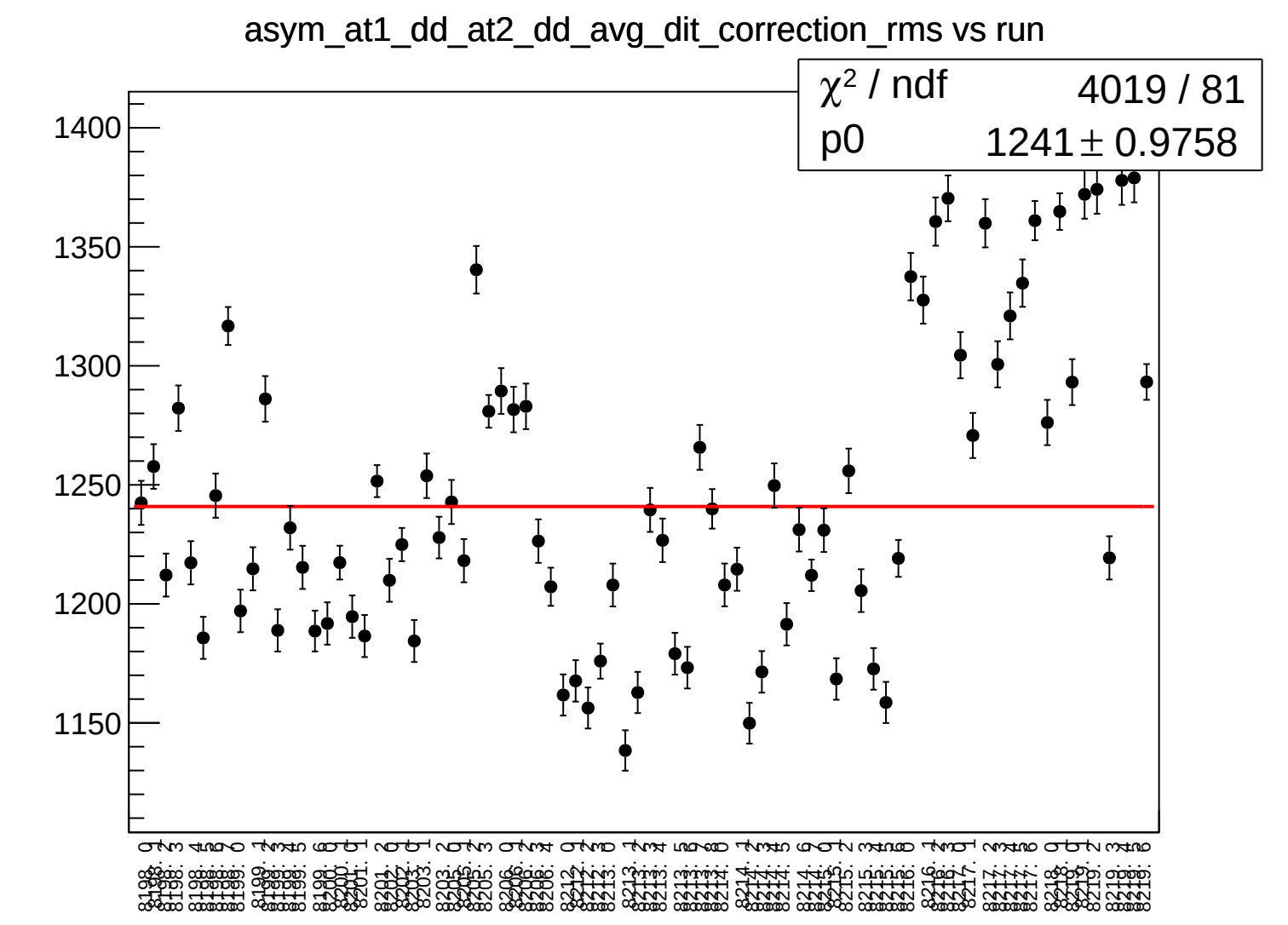

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 76.55 / 81
p0 2311 ± 1386
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −773.2
Std Dev 0
3
2
1
0
−1
−2

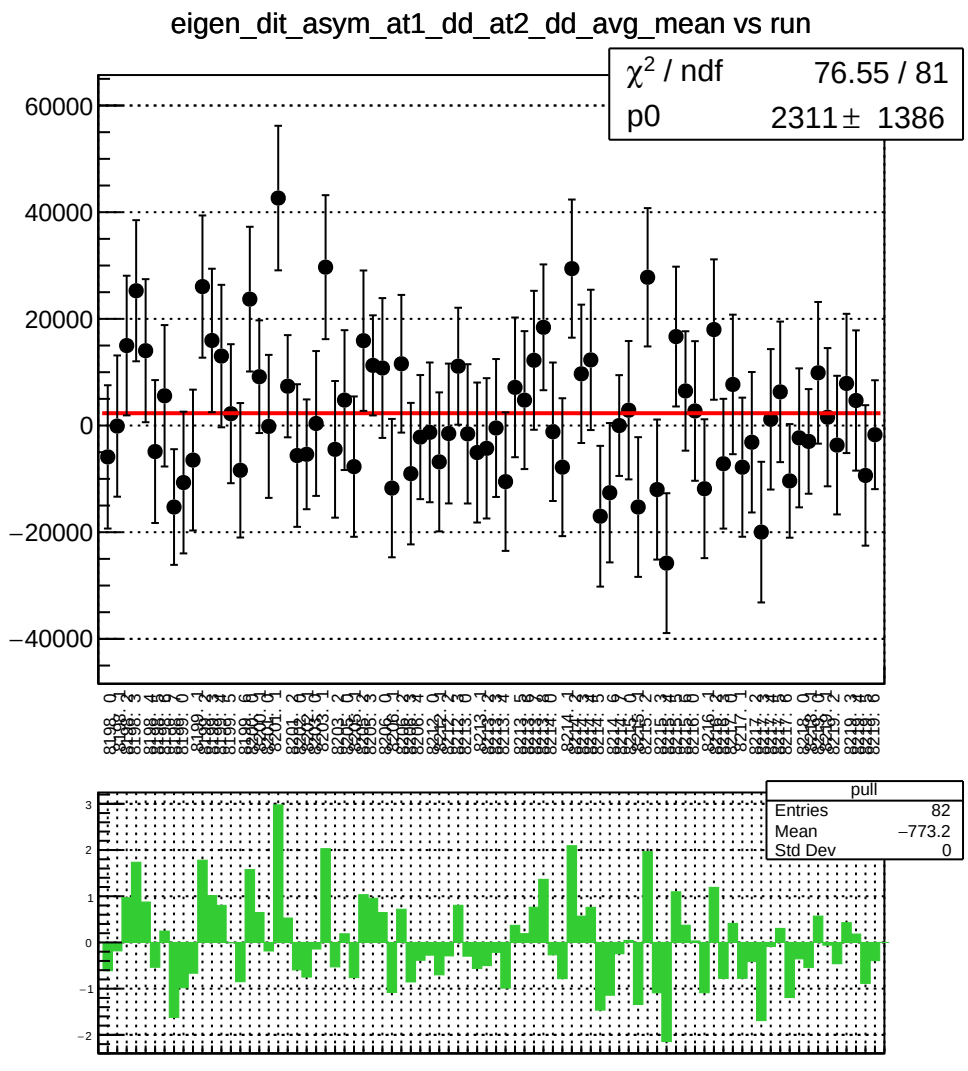

pull1D
Entries 82
Mean 0.005849
Std Dev 0.9662
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

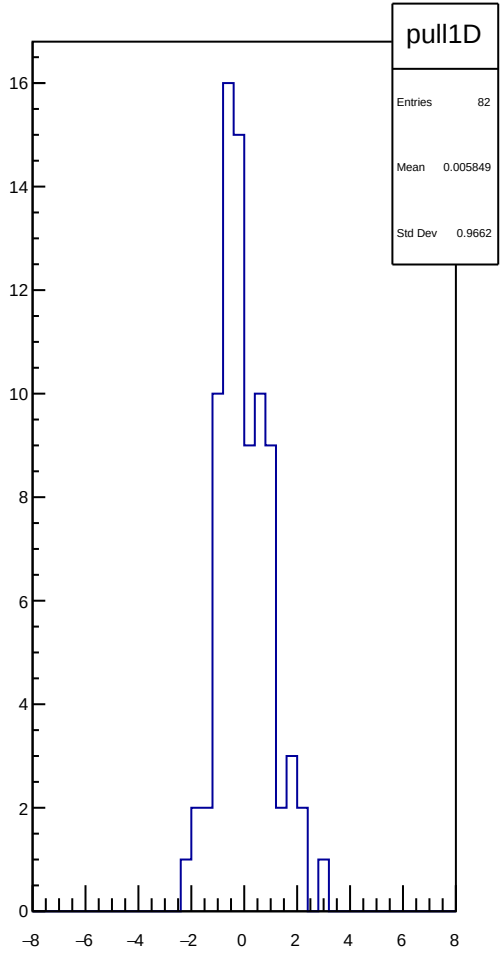

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 273.3 / 81
p0 1248 ± 0.9799
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

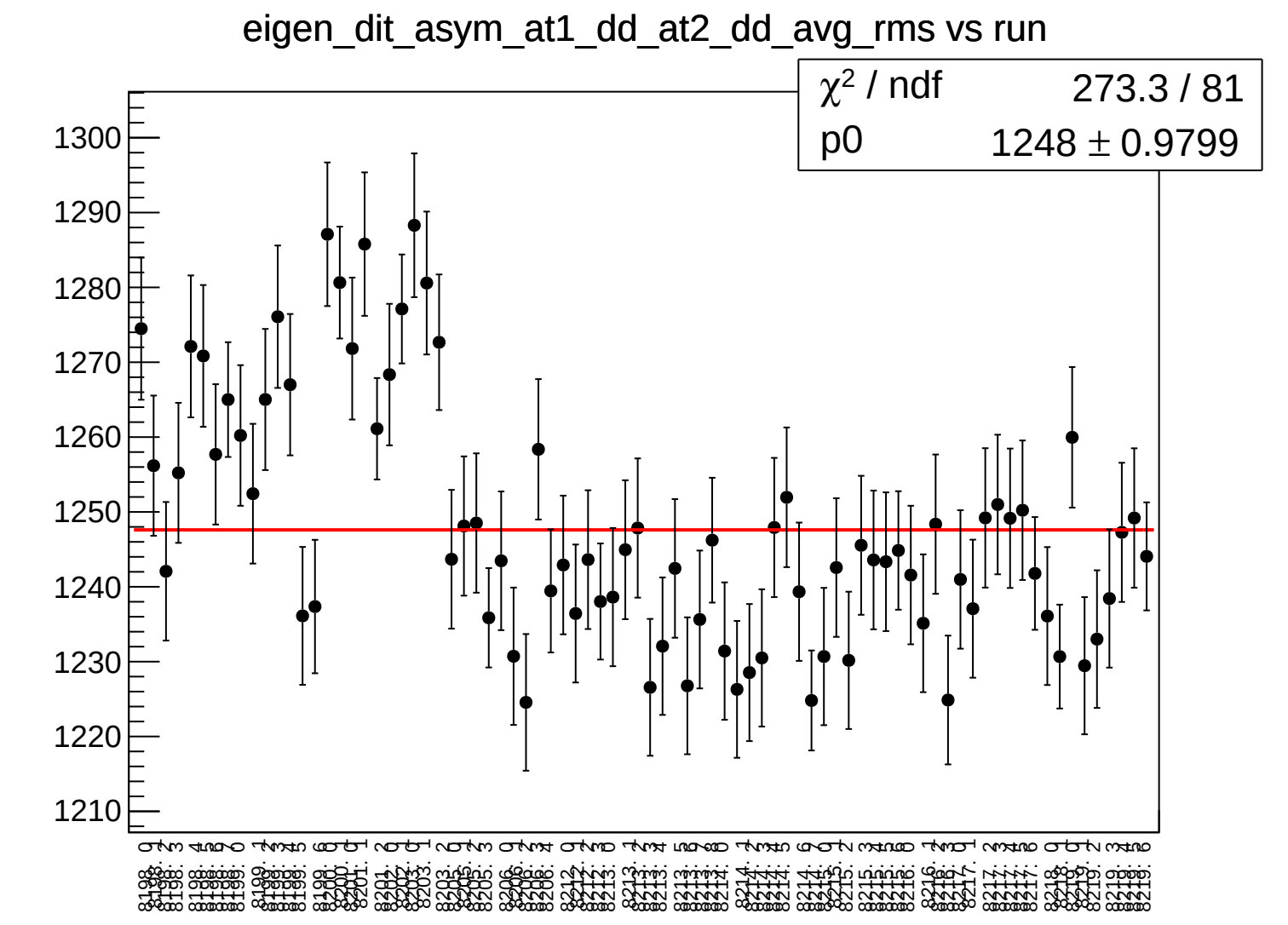

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 89.46 / 81
p0 1461 ± 1380
pull
Entries 82
Mean −591
Std Dev 0

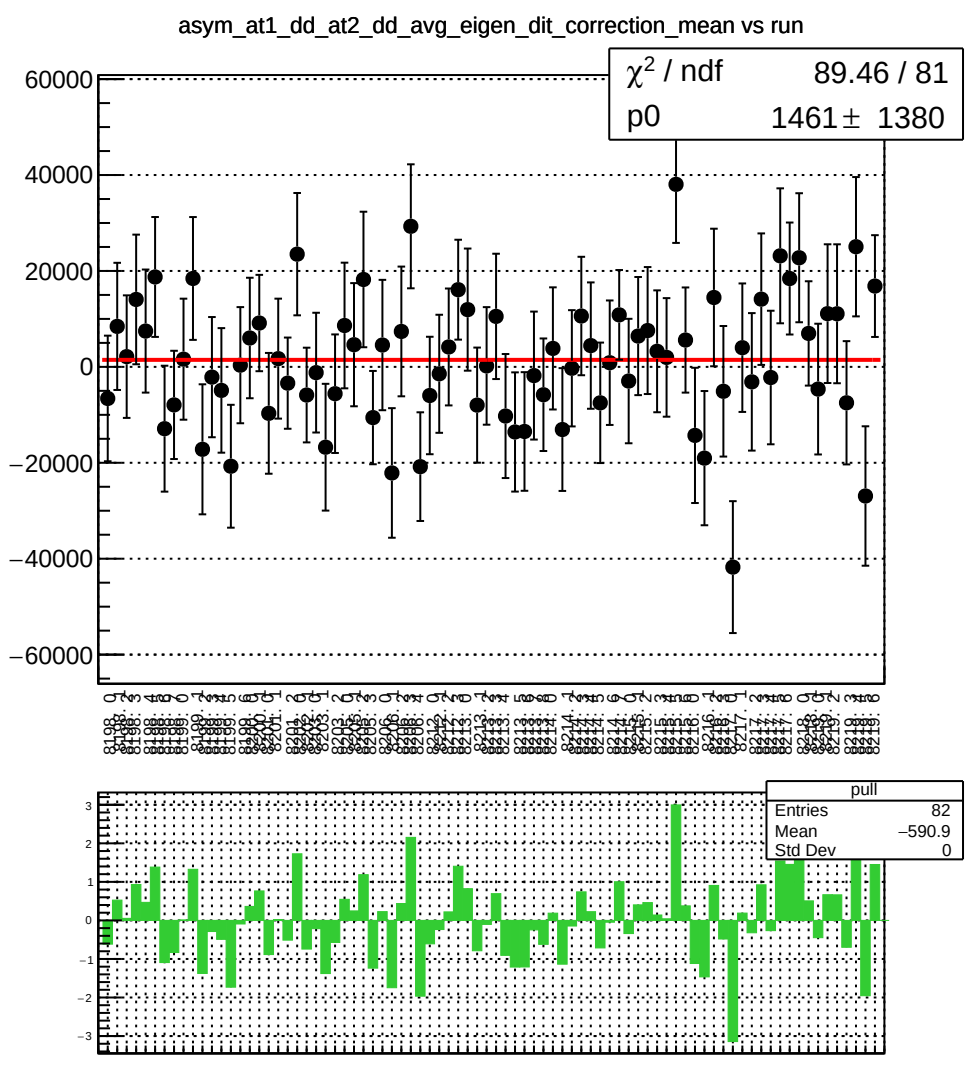

pull1D
Entries 82
Mean −0.004296
Std Dev 1.044

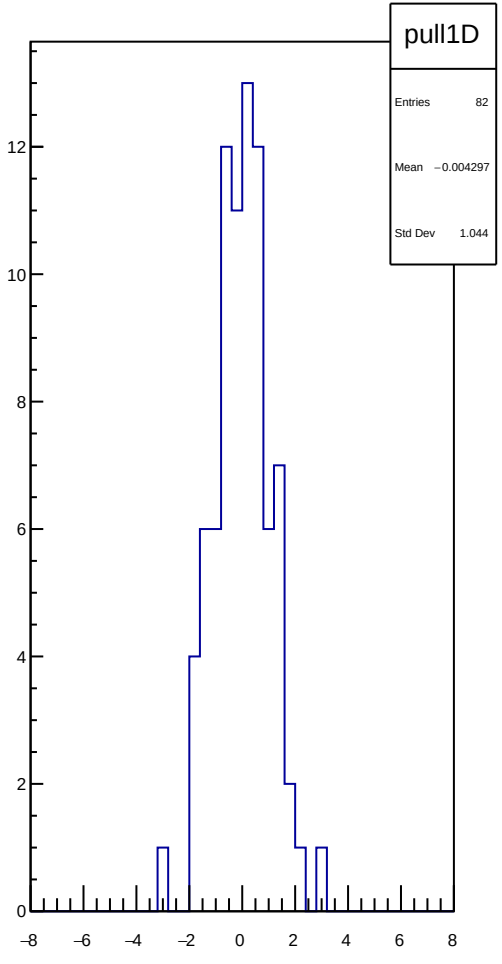

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 4019 / 81
p0 1241 ± 0.9758
1400
1350
1300
1250
1200
1150

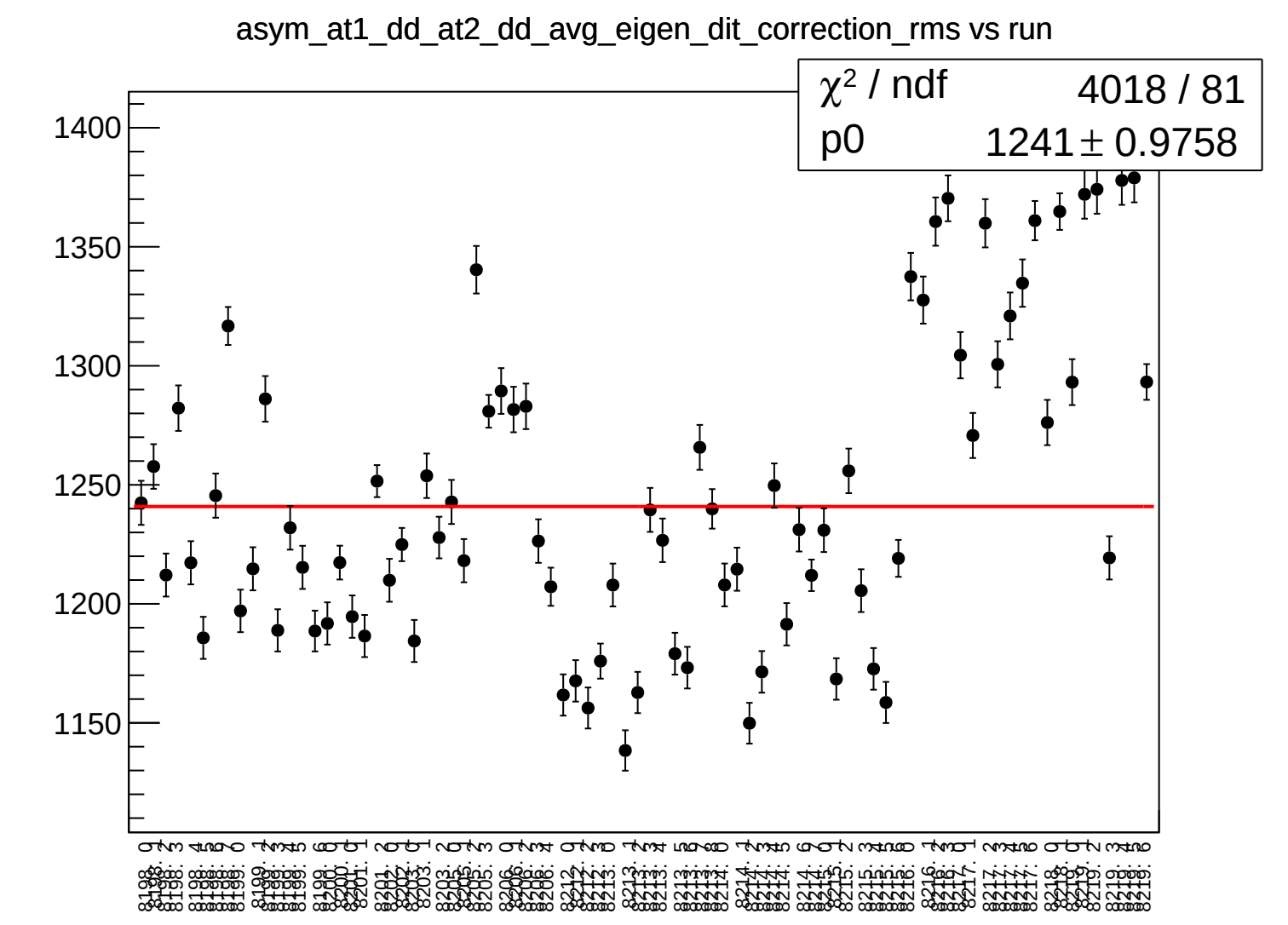

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 76.55 / 81
p0 2311 ± 1386
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −773.2
Std Dev 0
3
2
1
0
−1
−2

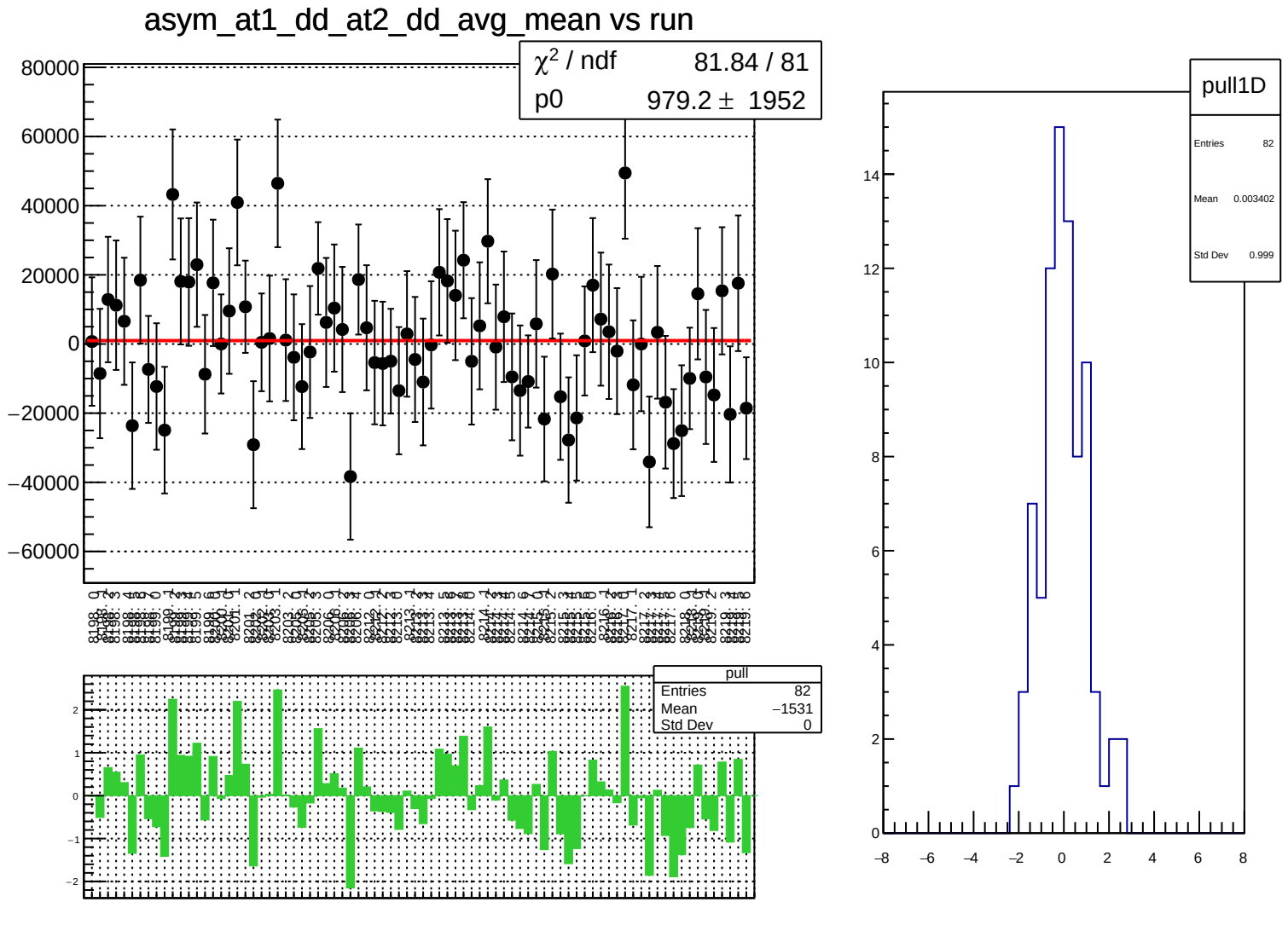

pull1D
Entries 82
Mean 0.005849
Std Dev 0.9662
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

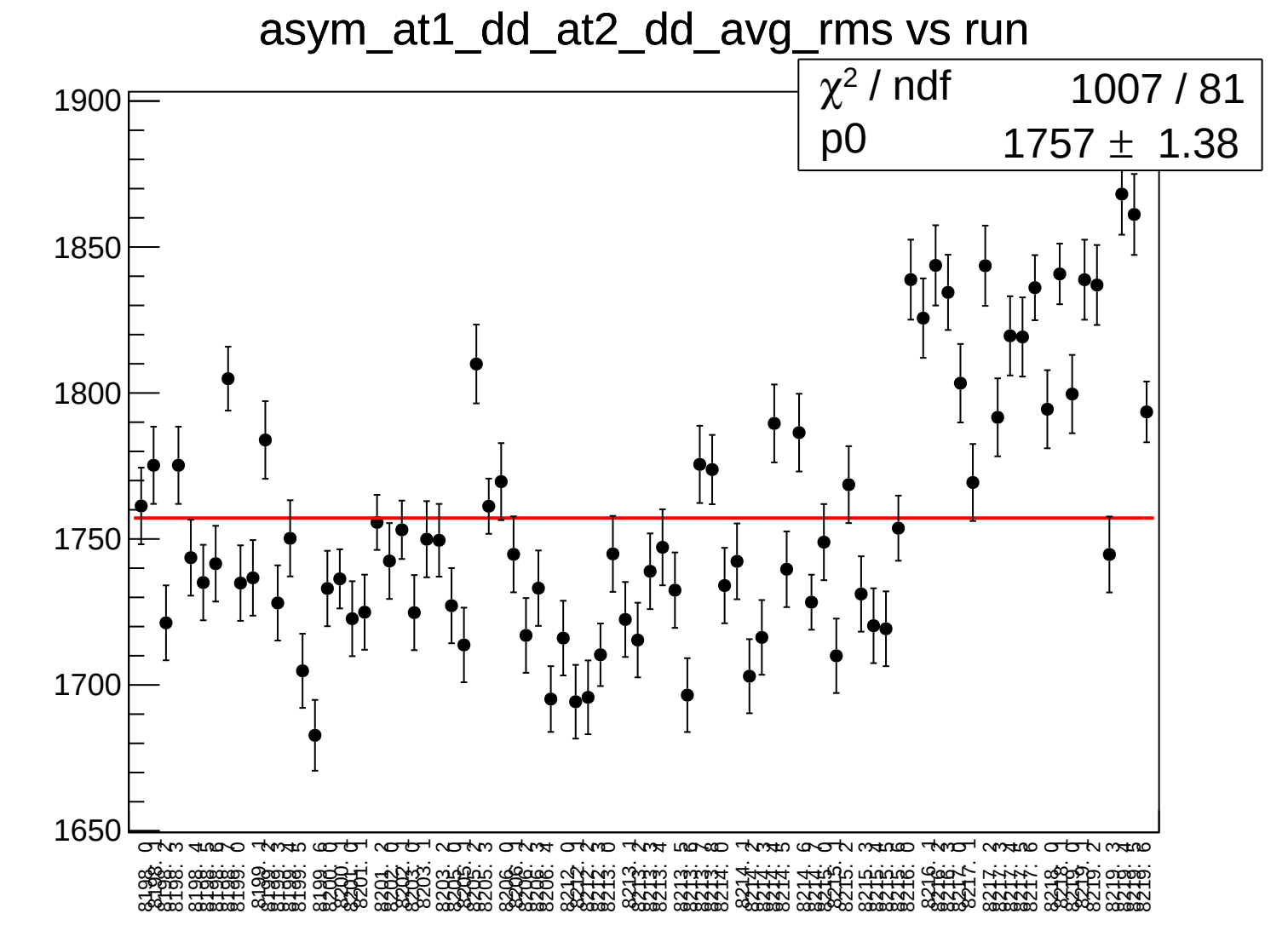

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 273.3 / 81
p0 1248 ± 0.9799
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

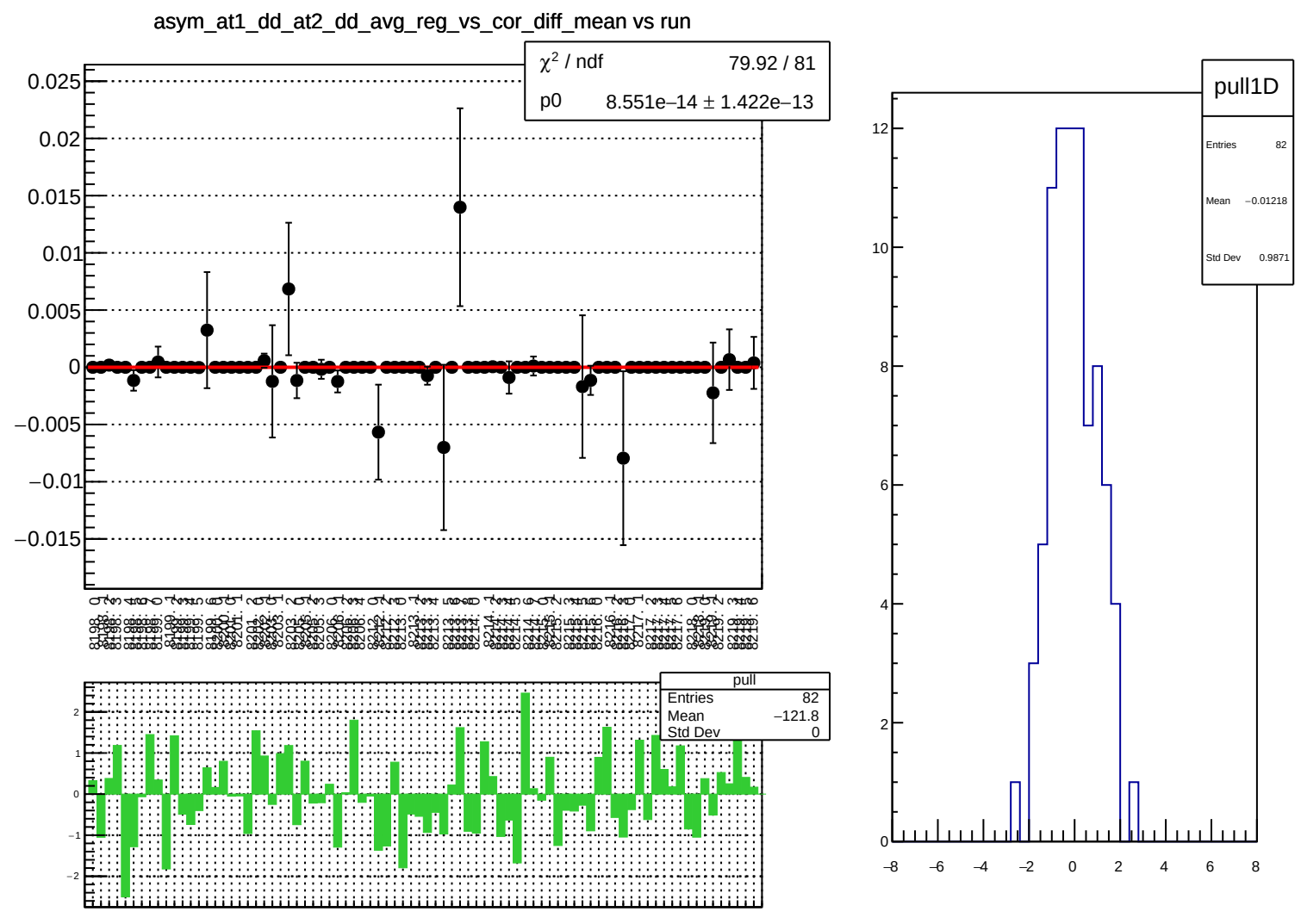

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.46 / 81
p0 1461 ± 1380
pull
Entries 82
Mean −590.9
Std Dev 0

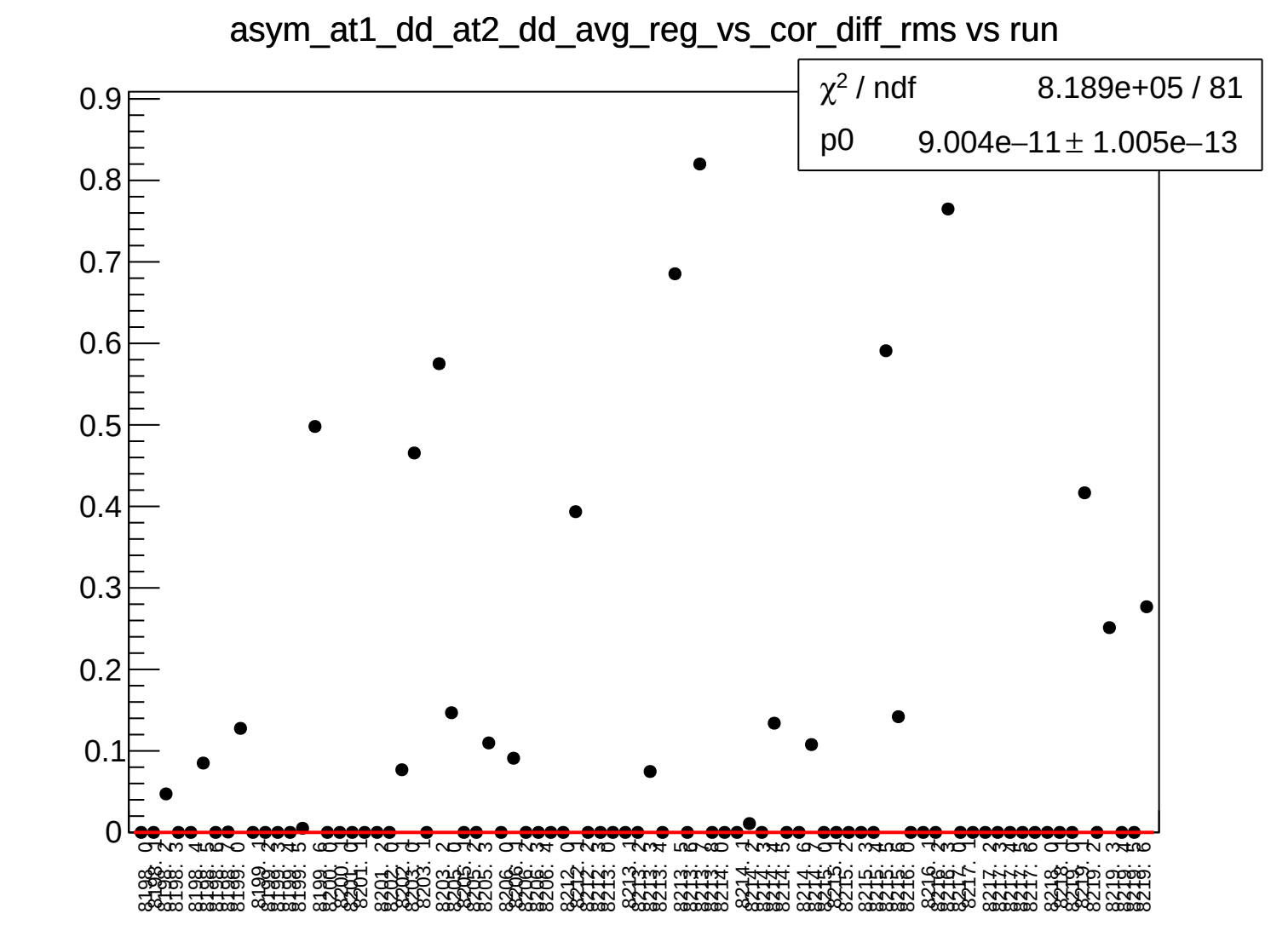

pull1D
Entries 82
Mean −0.004297
Std Dev 1.044

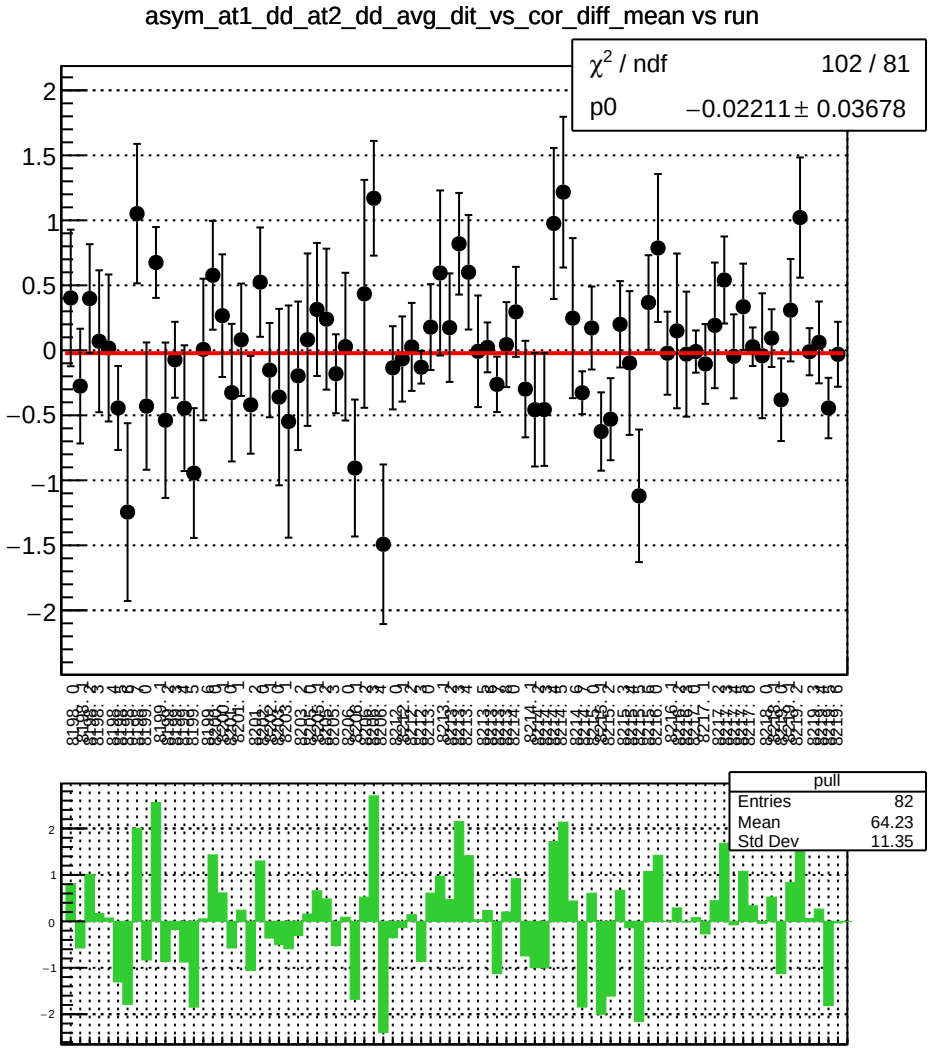

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4018 / 81
p0 1241 ± 0.9758
1400
1350
1300
1250
1200
1150

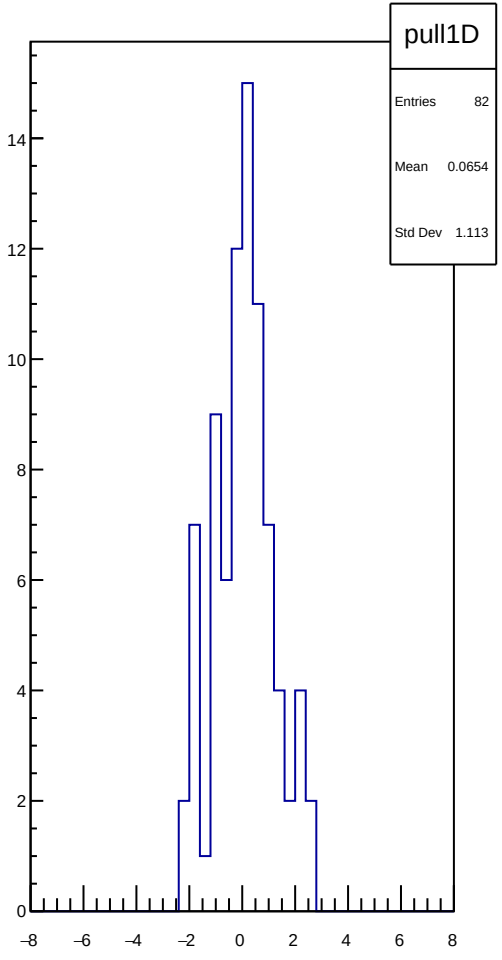

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 81.84 / 81
p0 979.2 ± 1952
pull
Entries 82
Mean −1531
Std Dev 0
pull1D
Entries 82
Mean 0.003402
Std Dev 0.999

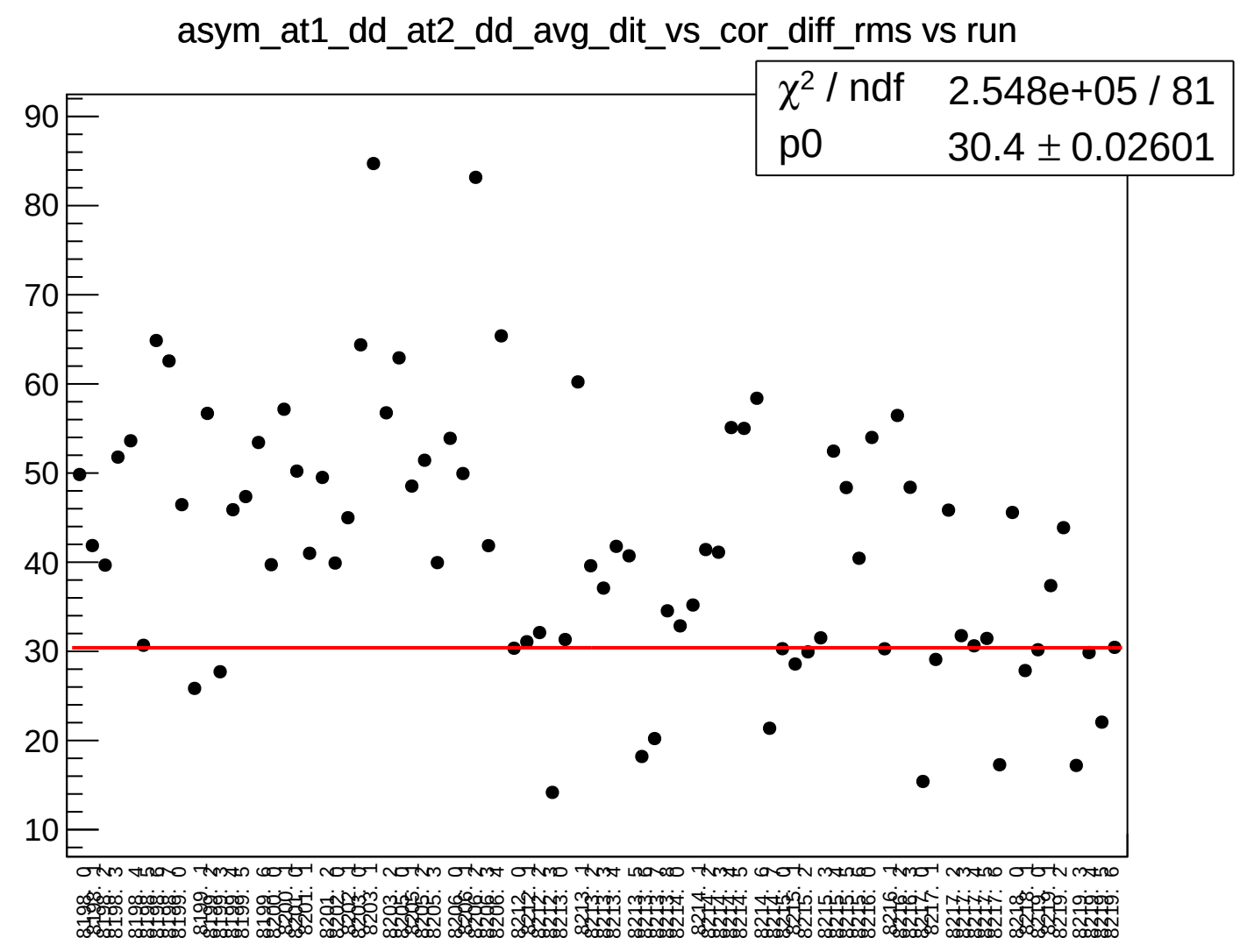

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1007 / 81
p0 1757 ± 1.38
1900
1850
1800
1750
1700
1650

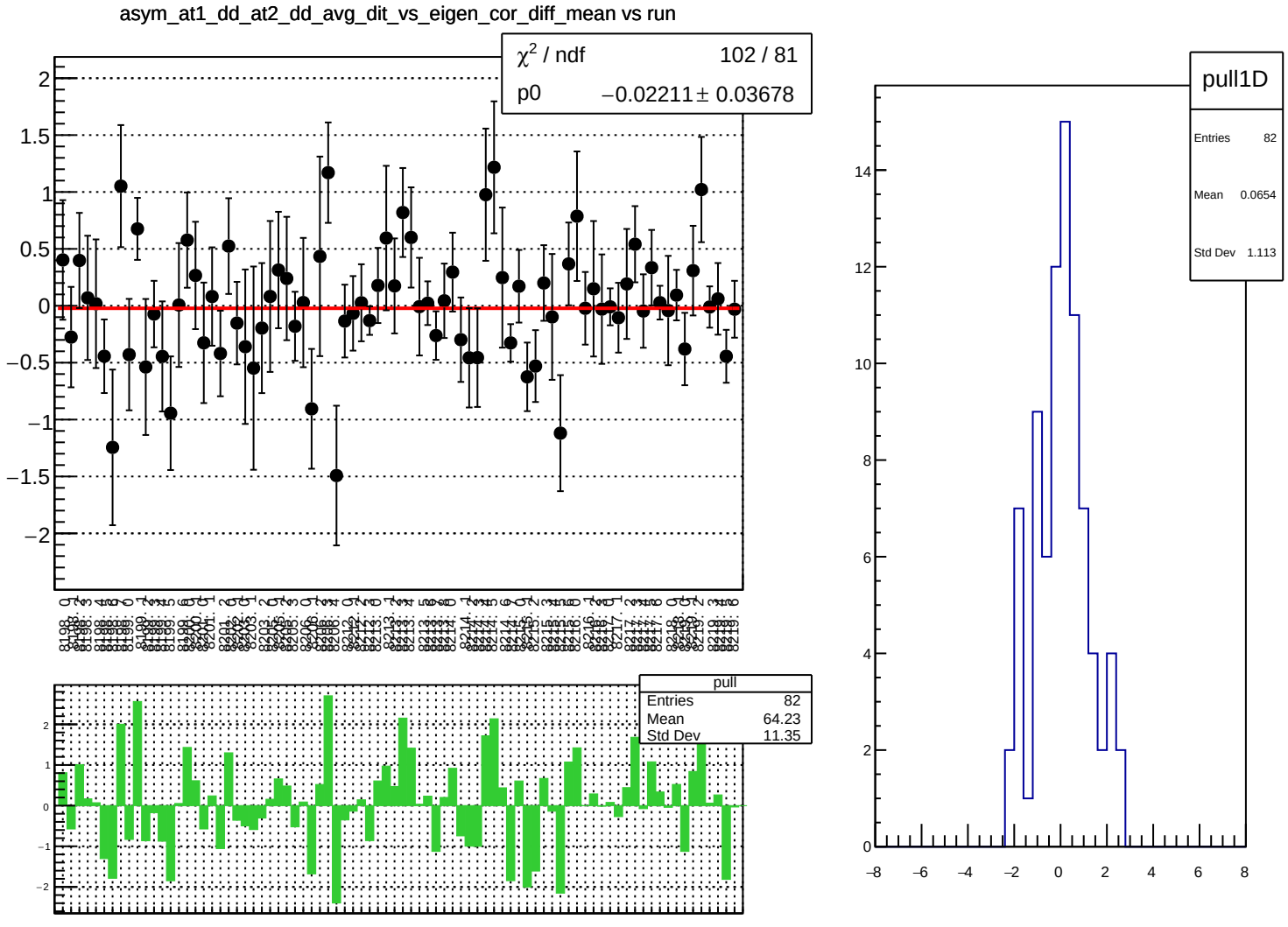

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.92 / 81
p0 8.551e−14 ± 1.422e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 82
Mean −121.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.01218
Std Dev 0.9871
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

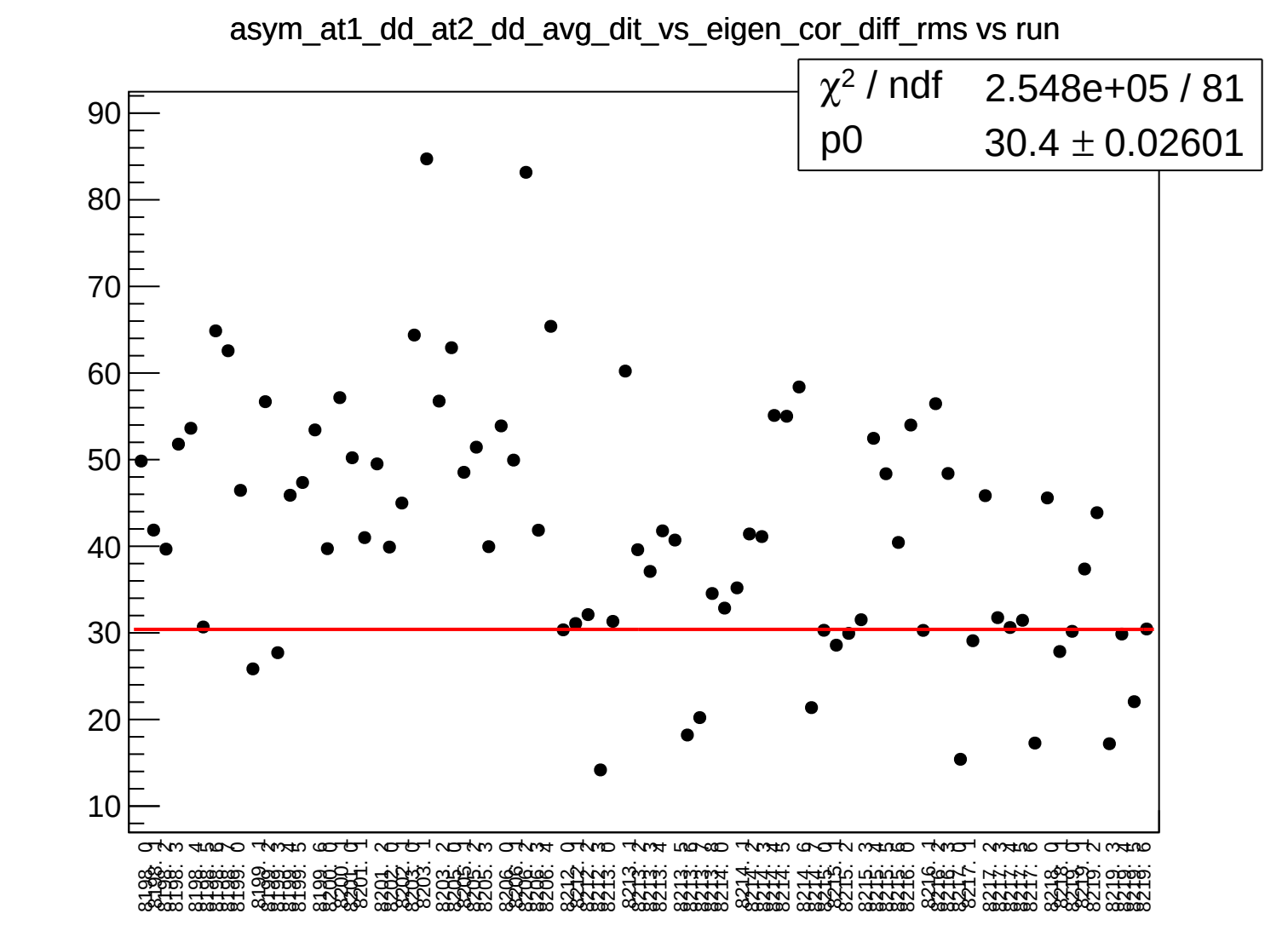

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.189e+05 / 81
p0 9.004e−11 ± 1.005e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

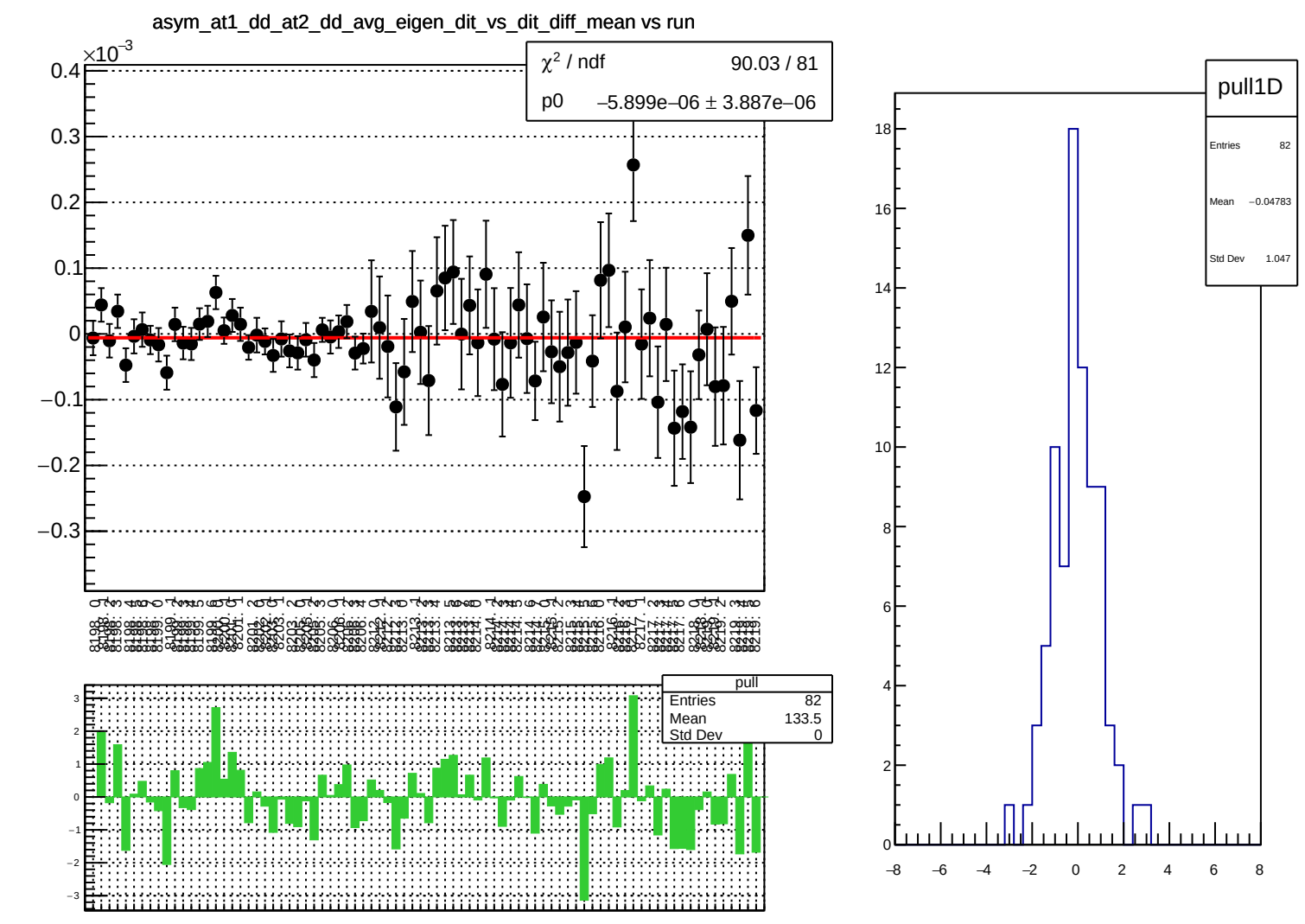

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 81
p0 −0.02211 ± 0.03678
pull
Entries 82
Mean 64.23
Std Dev 11.35

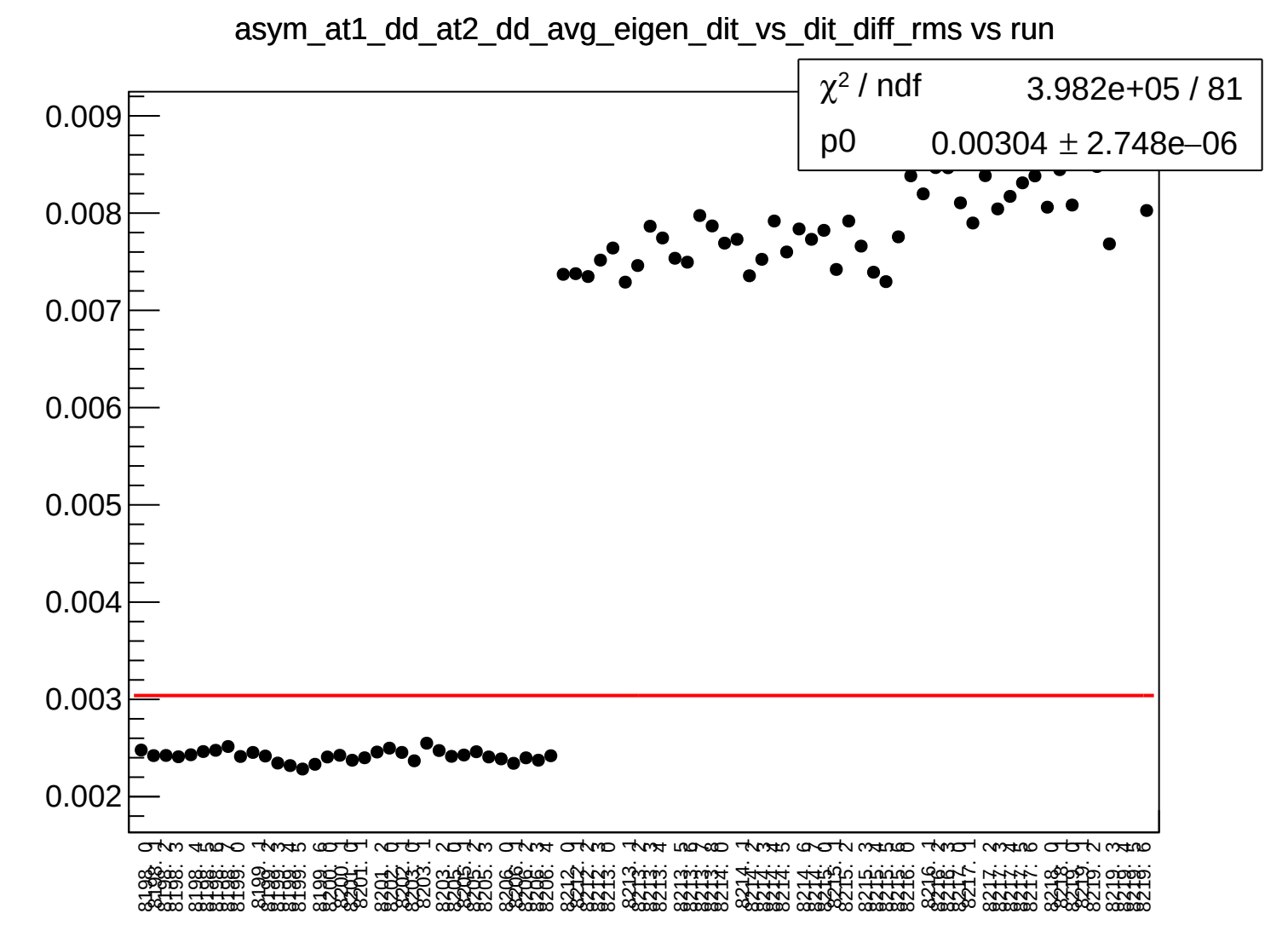

pull1D
Entries 82
Mean 0.0654
Std Dev 1.113

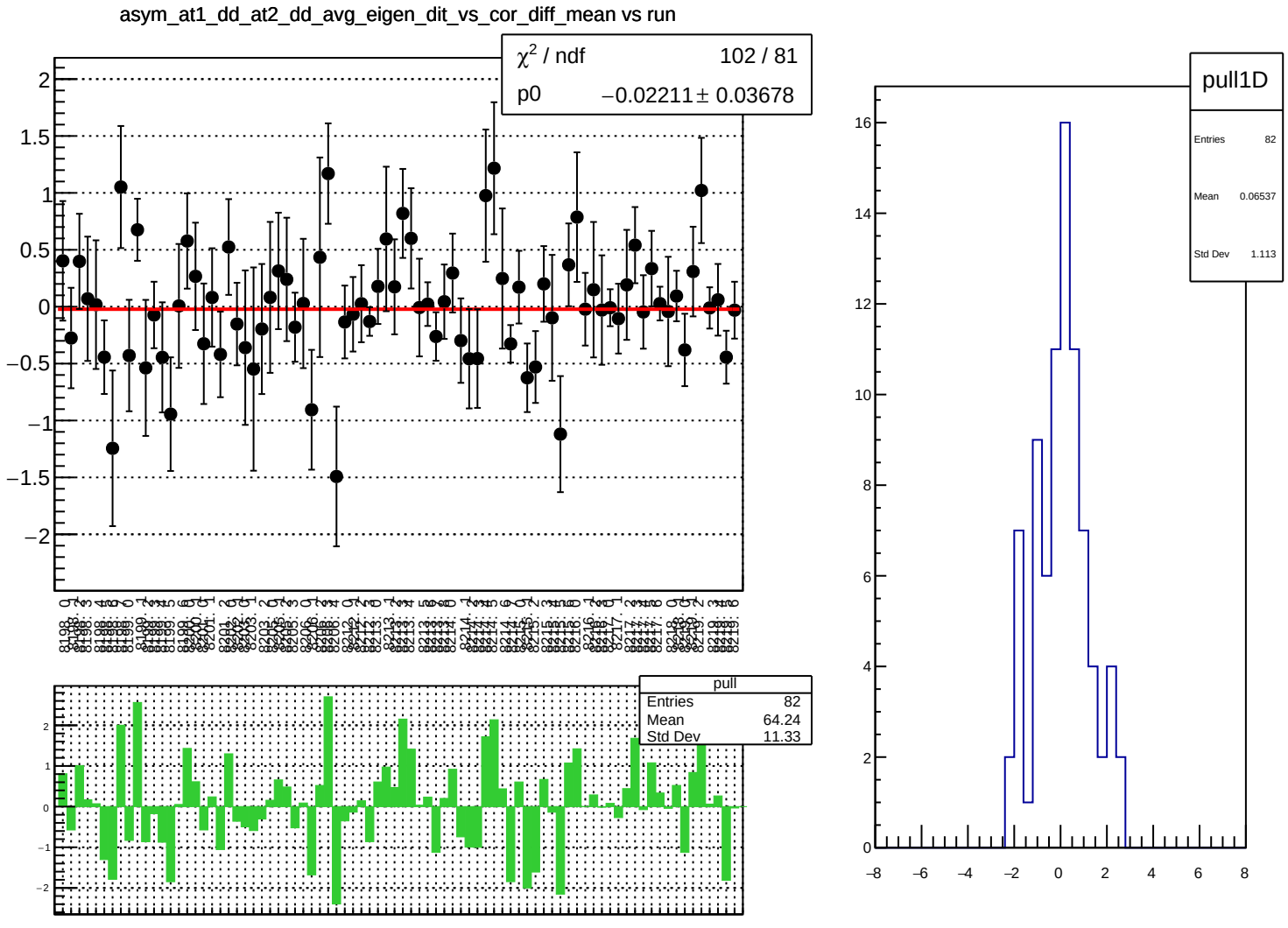

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.548e+05 / 81
p0 30.4 ± 0.02601
90
80
70
60
50
40
30
20
10

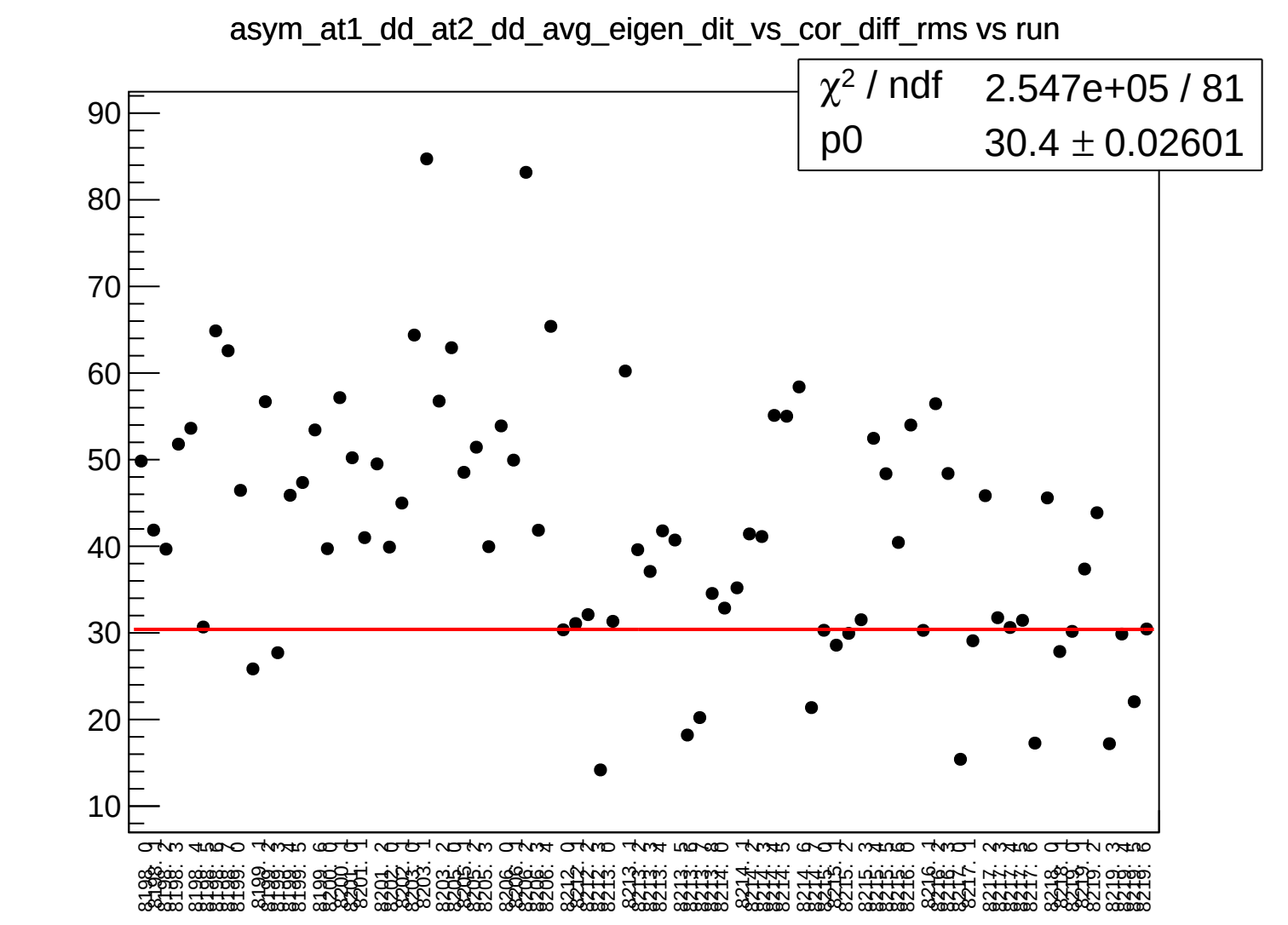

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 81
p0 −0.02211 ± 0.03678
pull
Entries 82
Mean 64.23
Std Dev 11.35
pull1D
Entries 82
Mean 0.0654
Std Dev 1.113

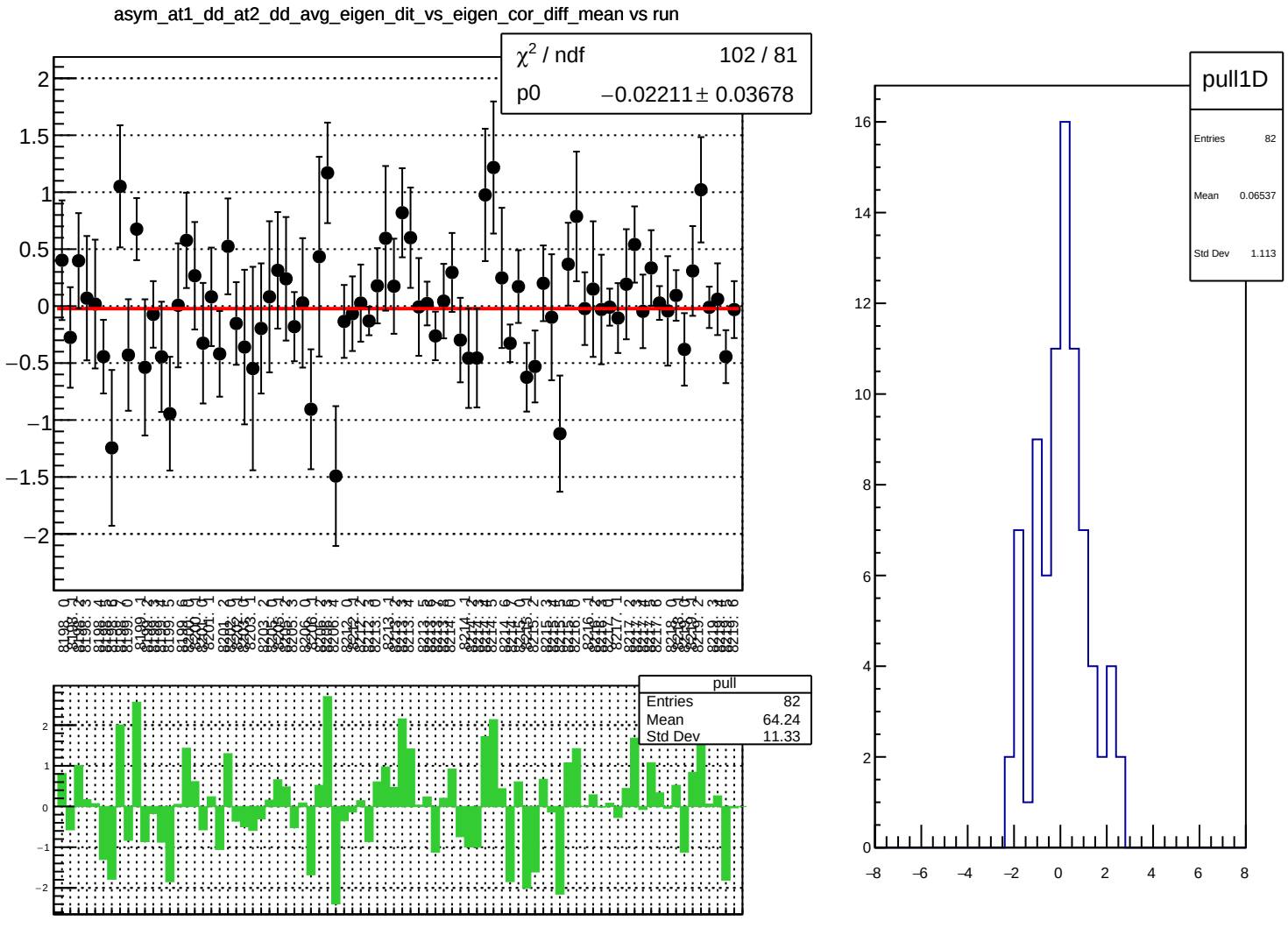

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.548e+05 / 81
p0 30.4 ± 0.02601
90
80
70
60
50
40
30
20
10

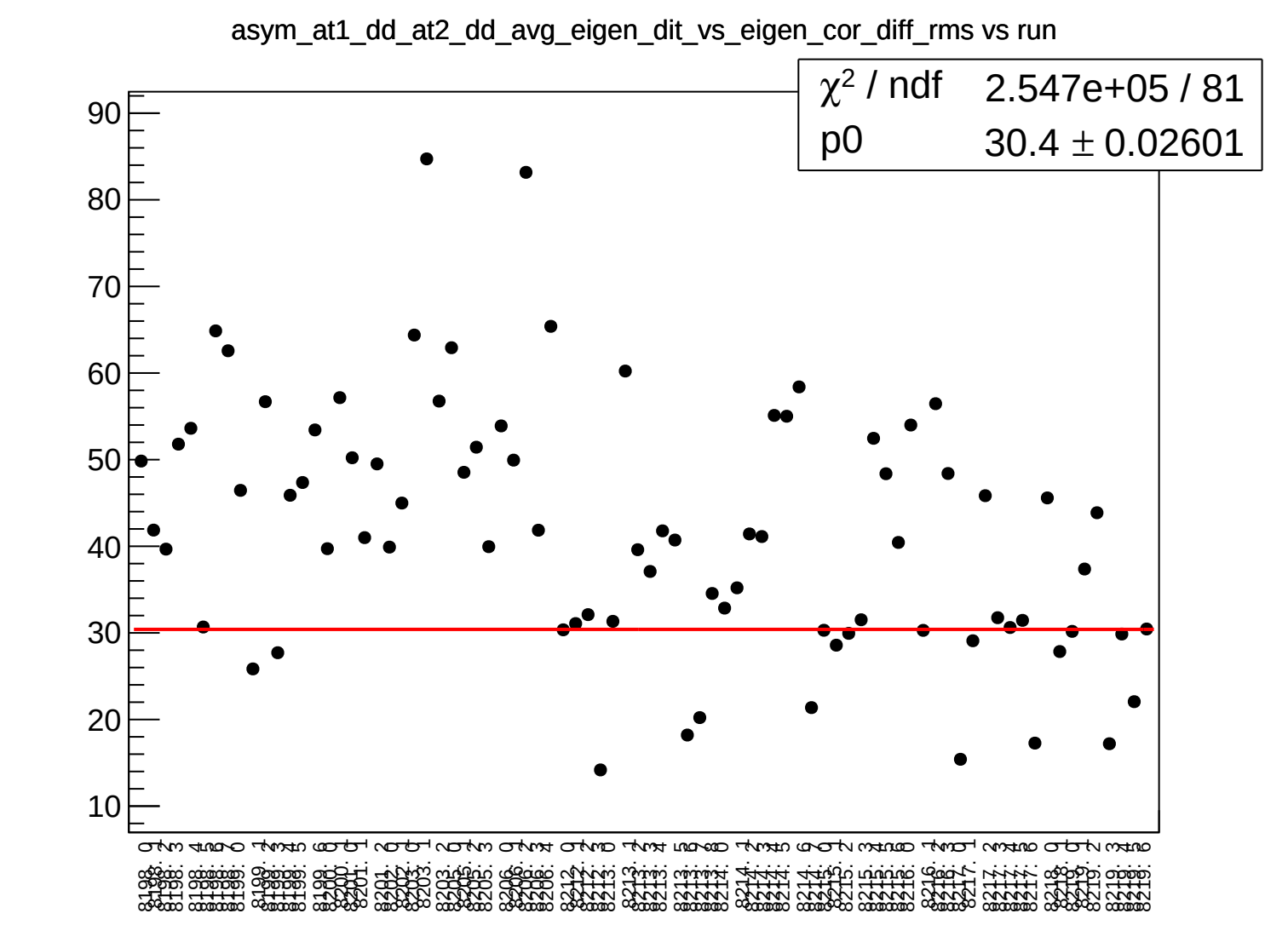

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.03 / 81
p0 −5.899e−06 ± 3.887e−06
pull
Entries 82
Mean 133.5
Std Dev 0
pull1D
Entries 82
Mean −0.04783
Std Dev 1.047

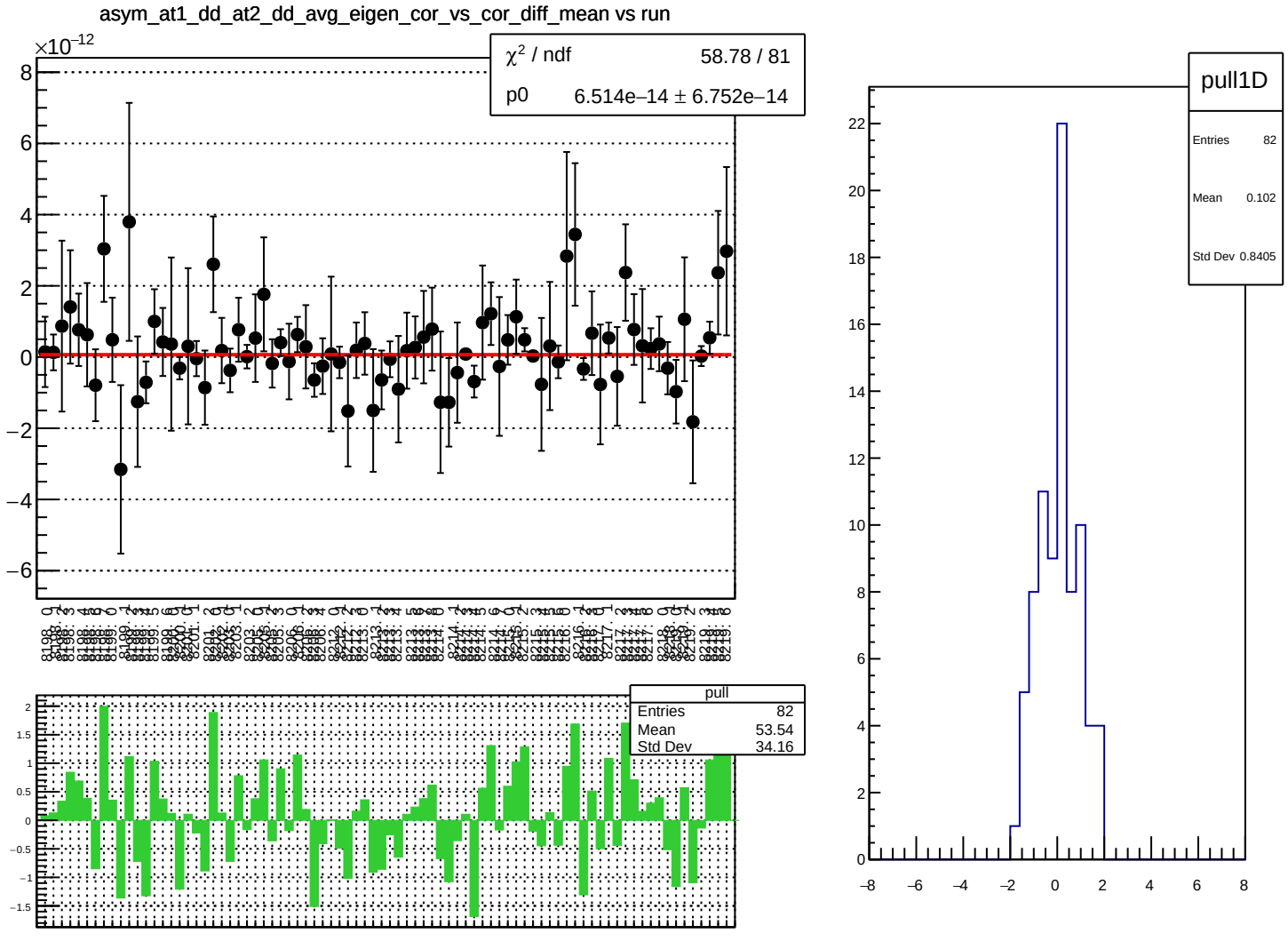

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.982e+05 / 81
p0 0.00304 ± 2.748e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

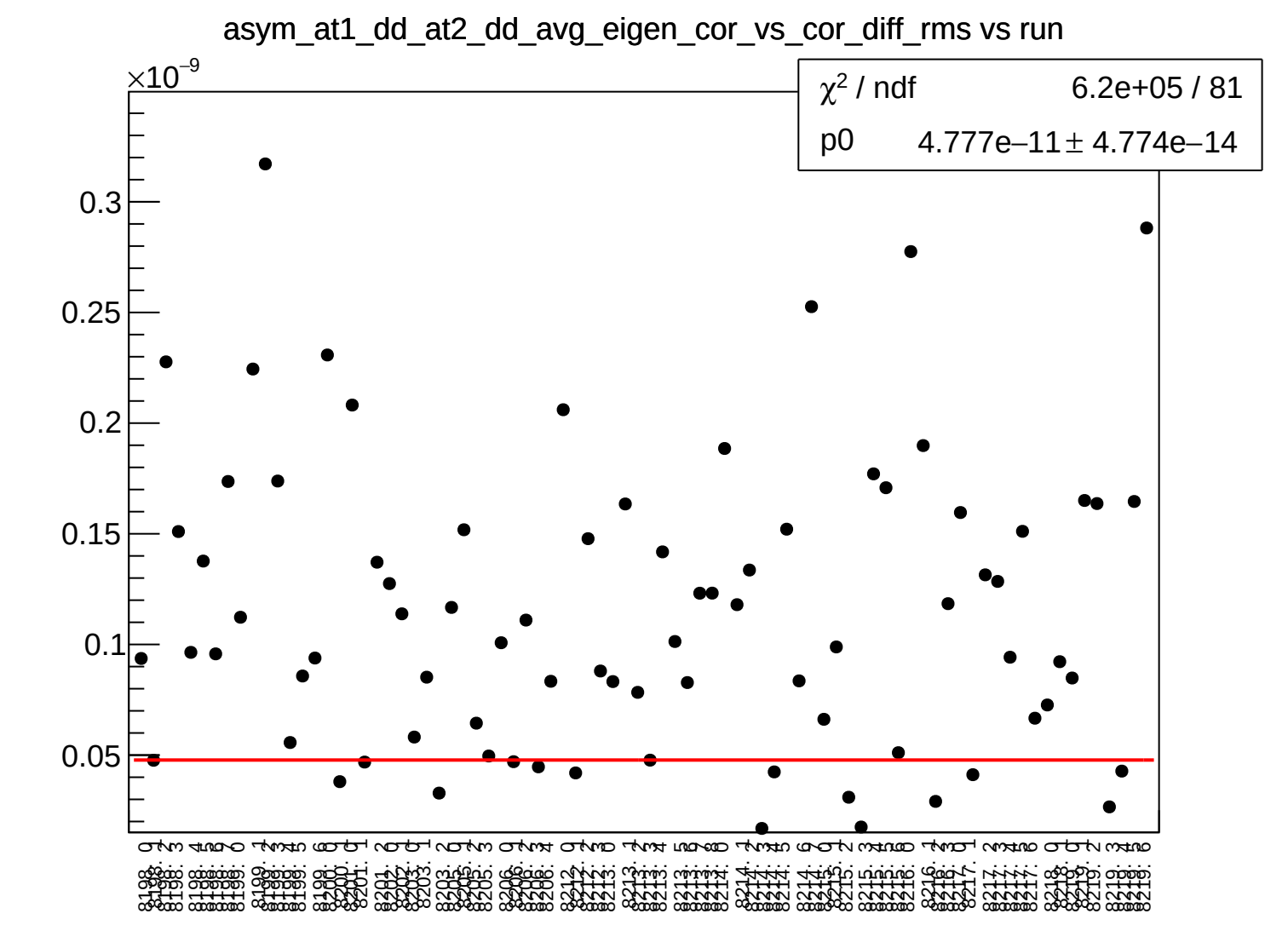

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 81
p0 −0.02211 ± 0.03678
pull
Entries 82
Mean 64.24
Std Dev 11.33
pull1D
Entries 82
Mean 0.06537
Std Dev 1.113

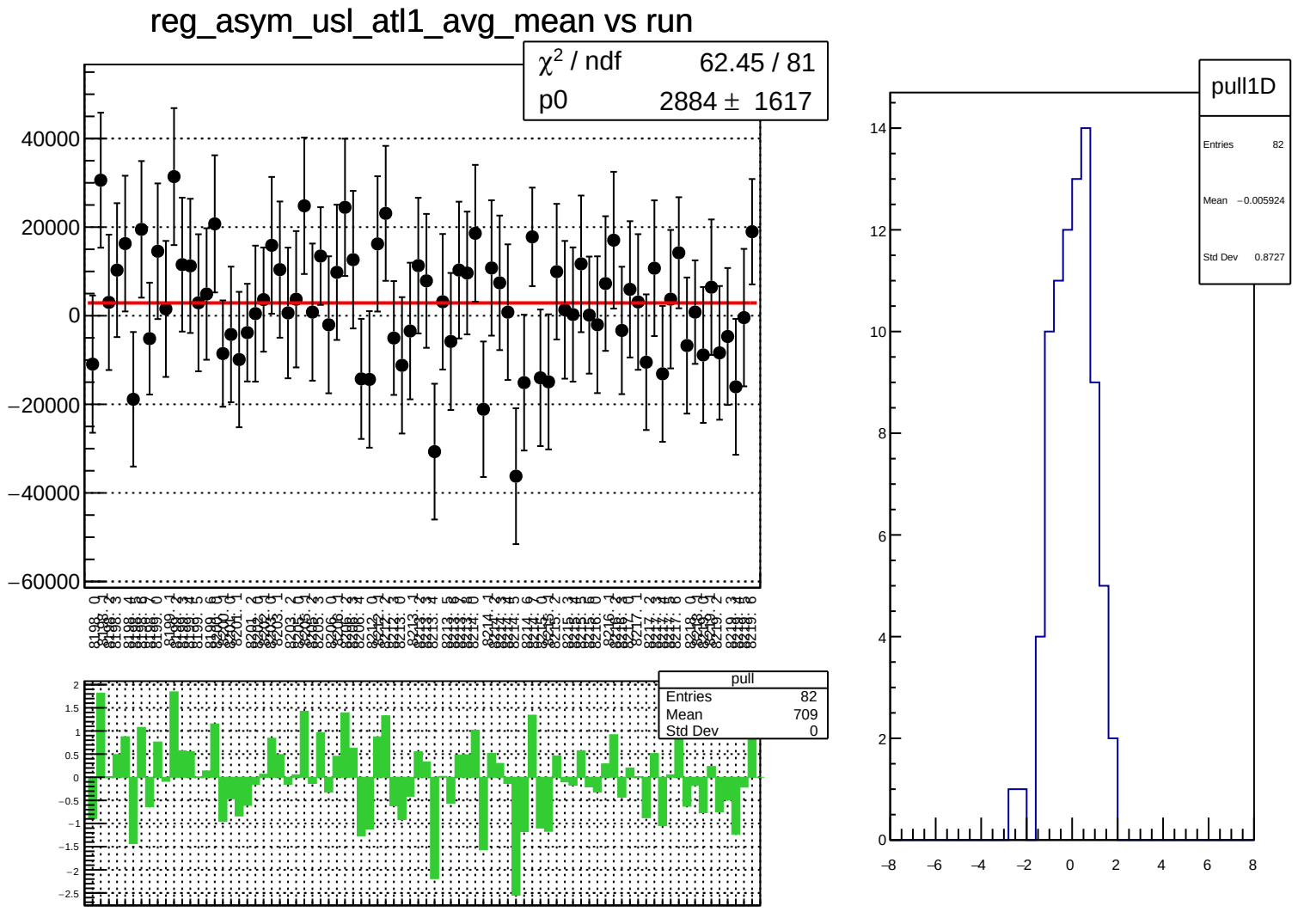

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.547e+05 / 81
p0 30.4 ± 0.02601
90
80
70
60
50
40
30
20
10

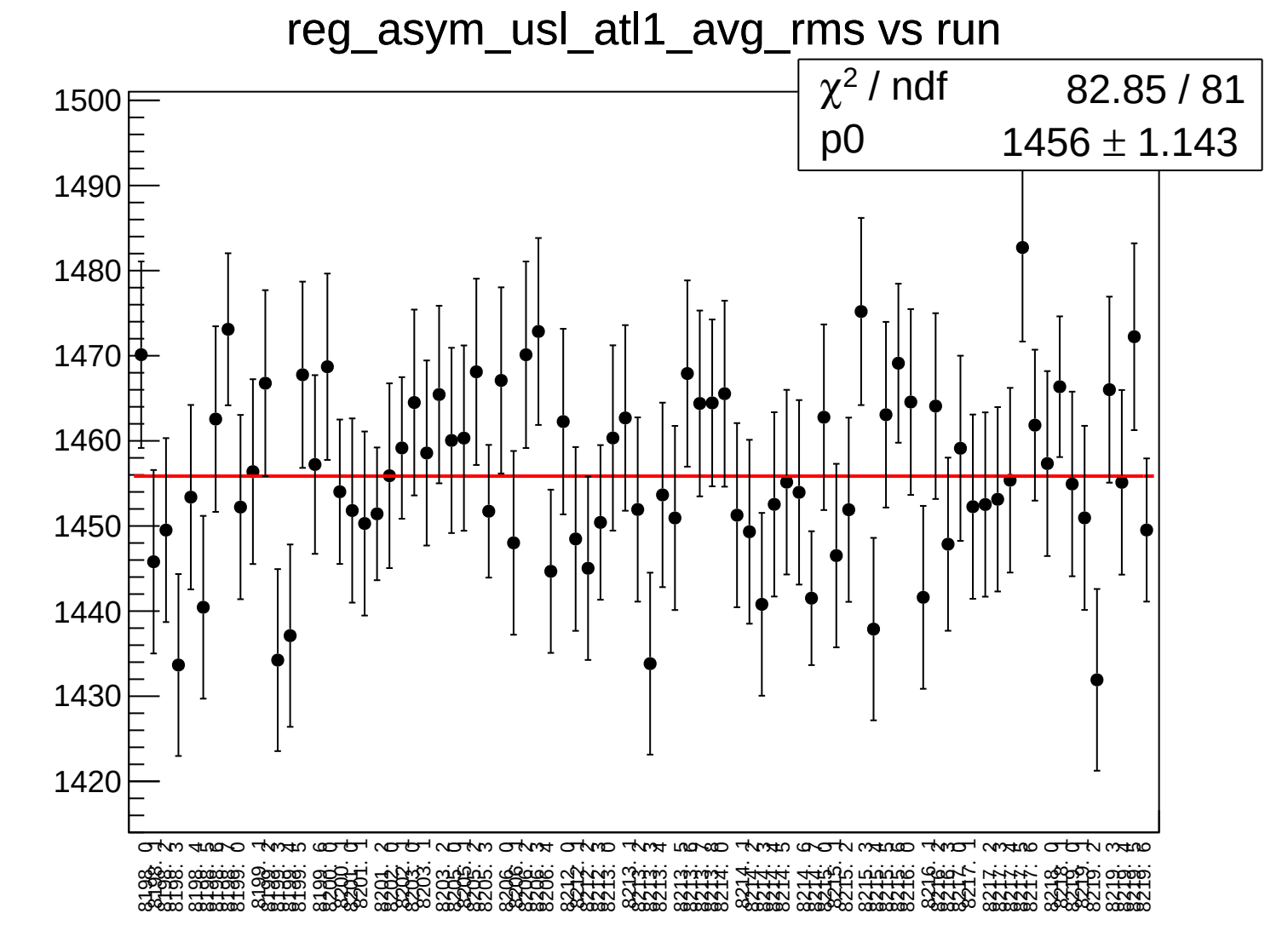

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 81
p0 −0.02211 ± 0.03678
pull
Entries 82
Mean 64.24
Std Dev 11.33
pull1D
Entries 82
Mean 0.06537
Std Dev 1.113

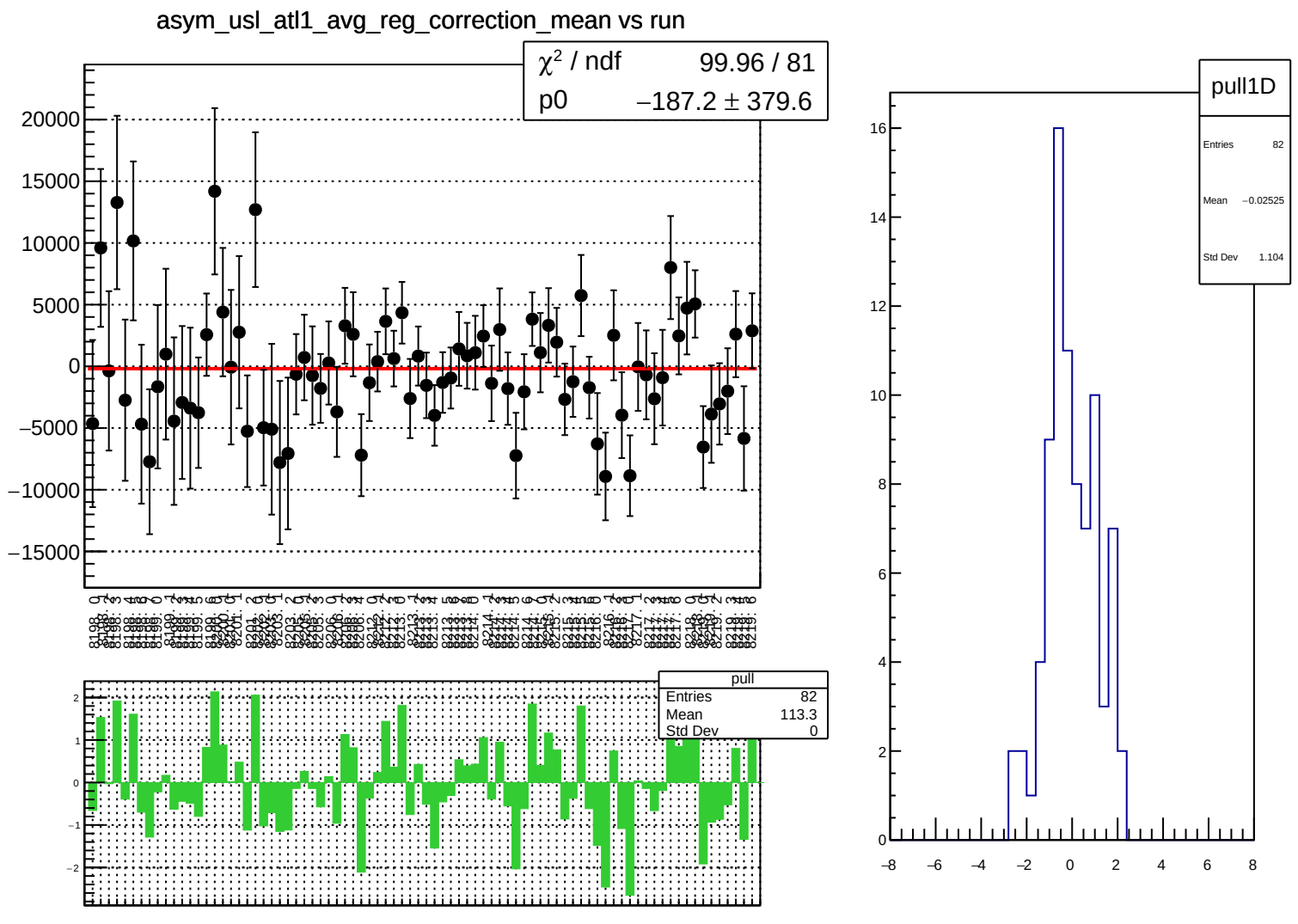

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.547e+05 / 81
p0 30.4 ± 0.02601
90
80
70
60
50
40
30
20
10

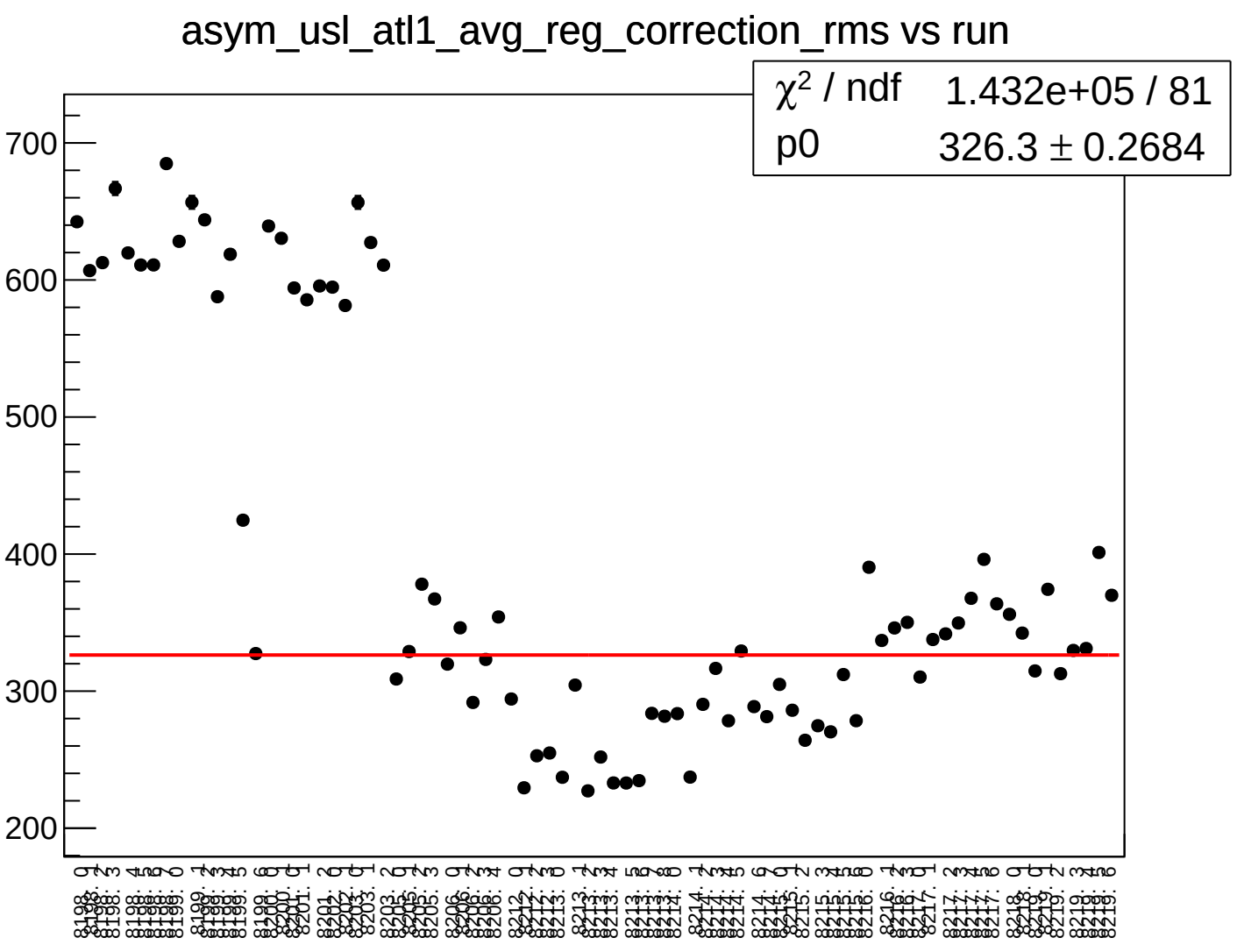

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.78 / 81
p0 6.514e−14 ± 6.752e−14
pull
Entries 82
Mean 53.54
Std Dev 34.16
pull1D
Entries 82
Mean 0.102
Std Dev 0.8405

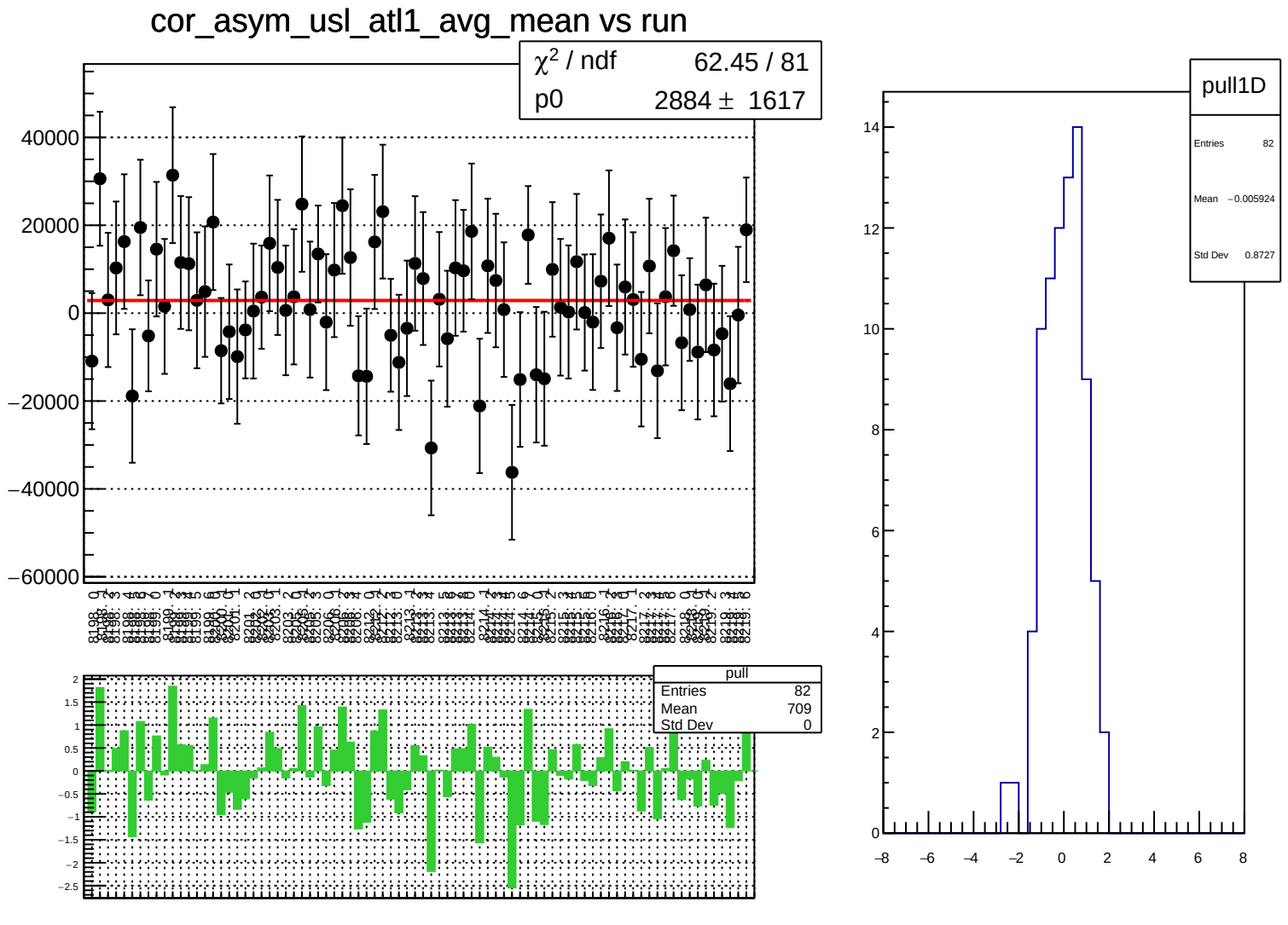

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.2e+05 / 81
p0 4.777e−11 ± 4.774e−14
0.3
0.25
0.2
0.15
0.1
0.05

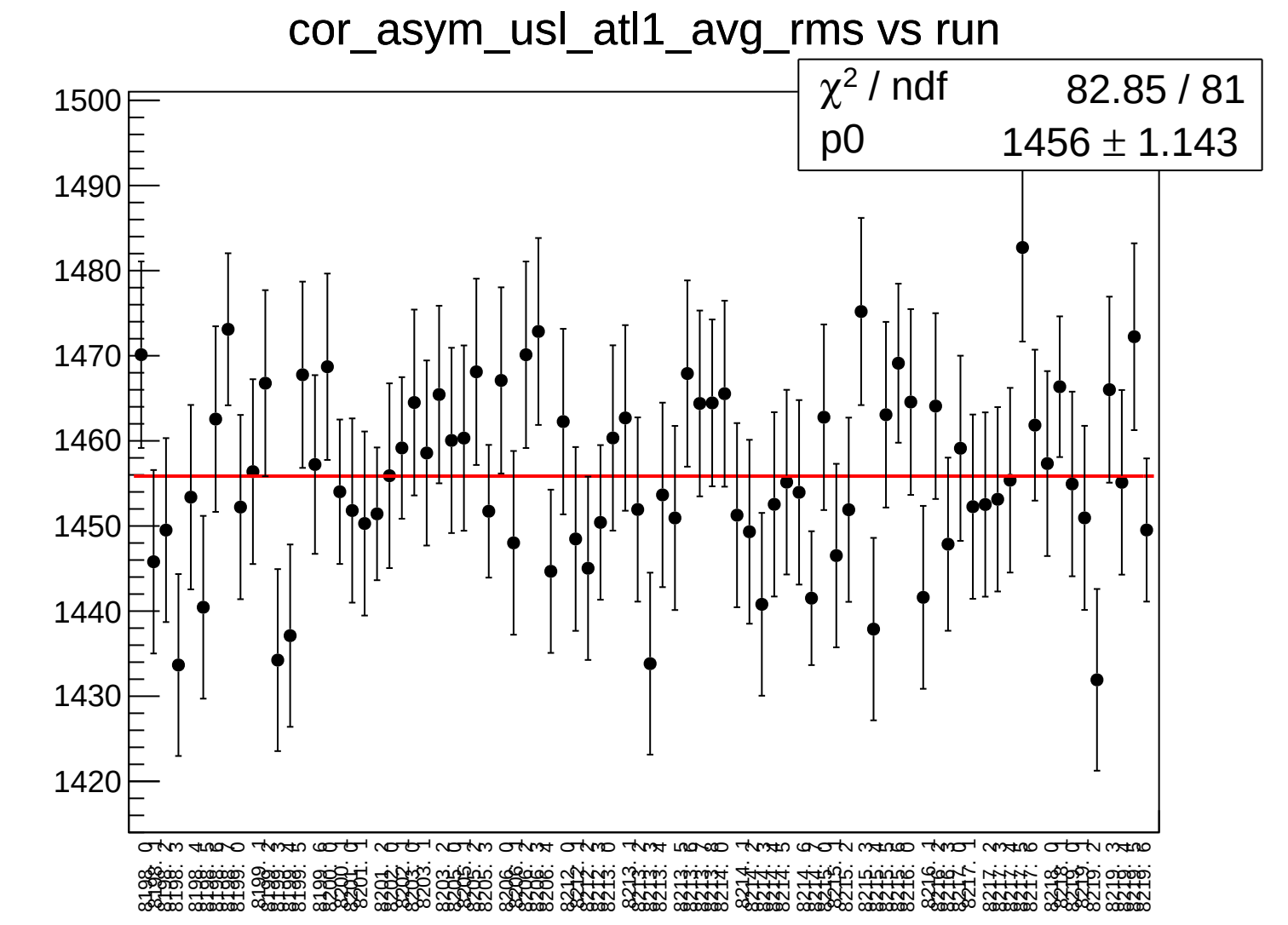

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 62.45 / 81
p0 2884 ± 1617
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 709
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean −0.005924
Std Dev 0.8727
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

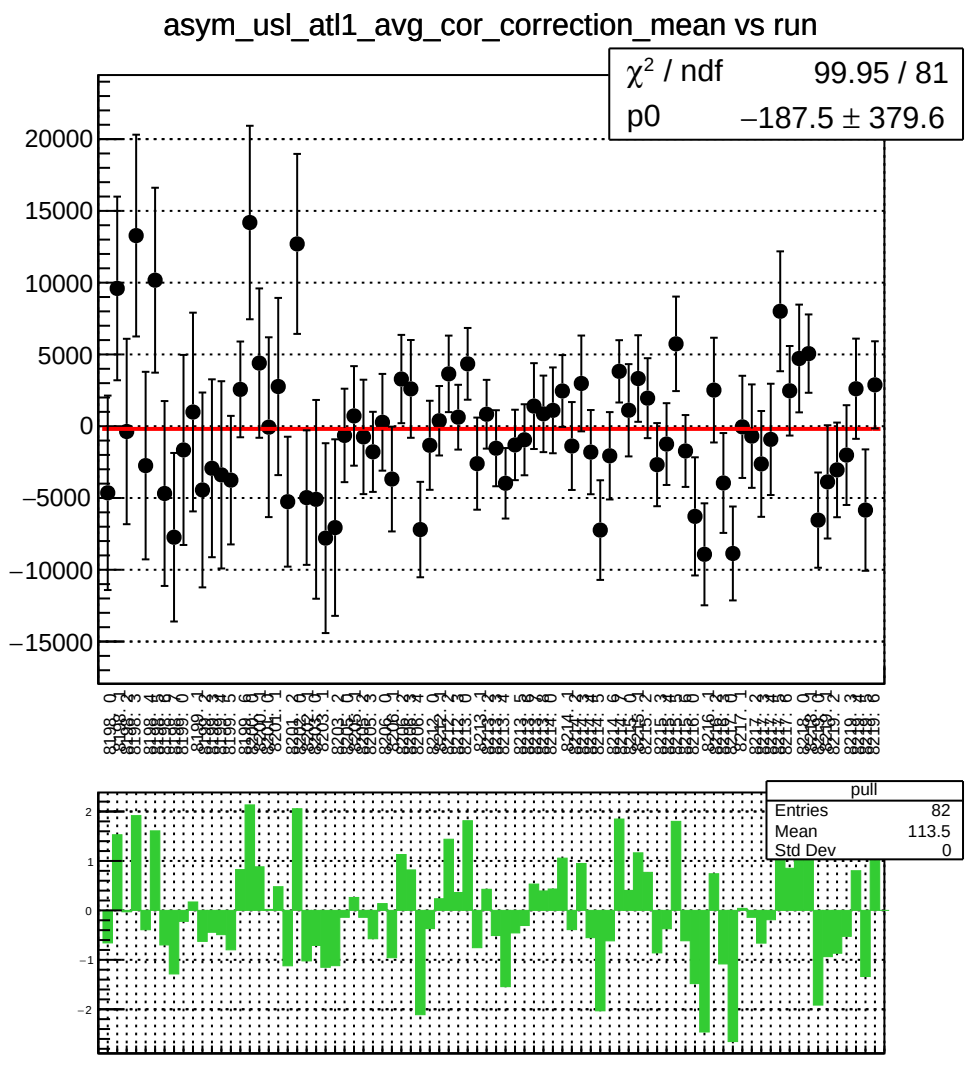

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 82.85 / 81
p0 1456 ± 1.143
1500
1490
1480
1470
1460
1450
1440
1430
1420

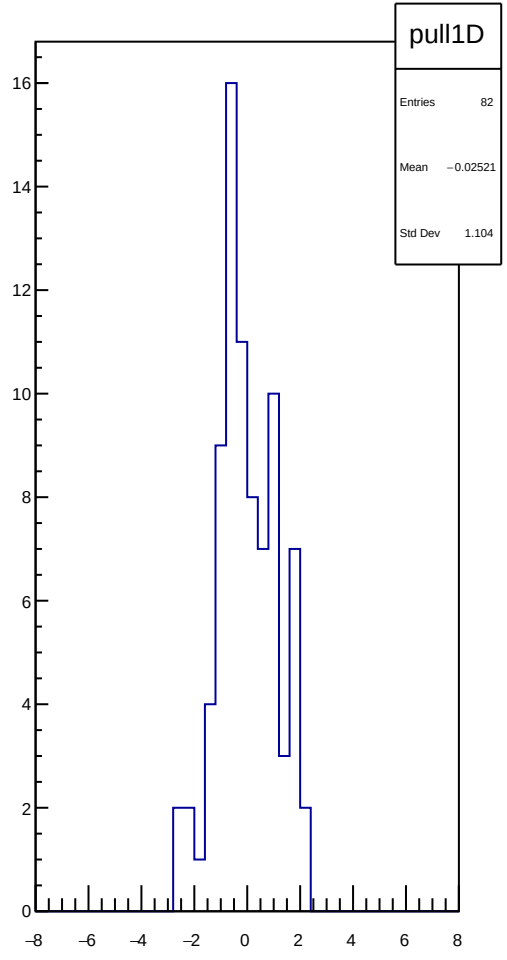

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 99.96 / 81
p0 −187.2 ± 379.6
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 113.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.02525
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

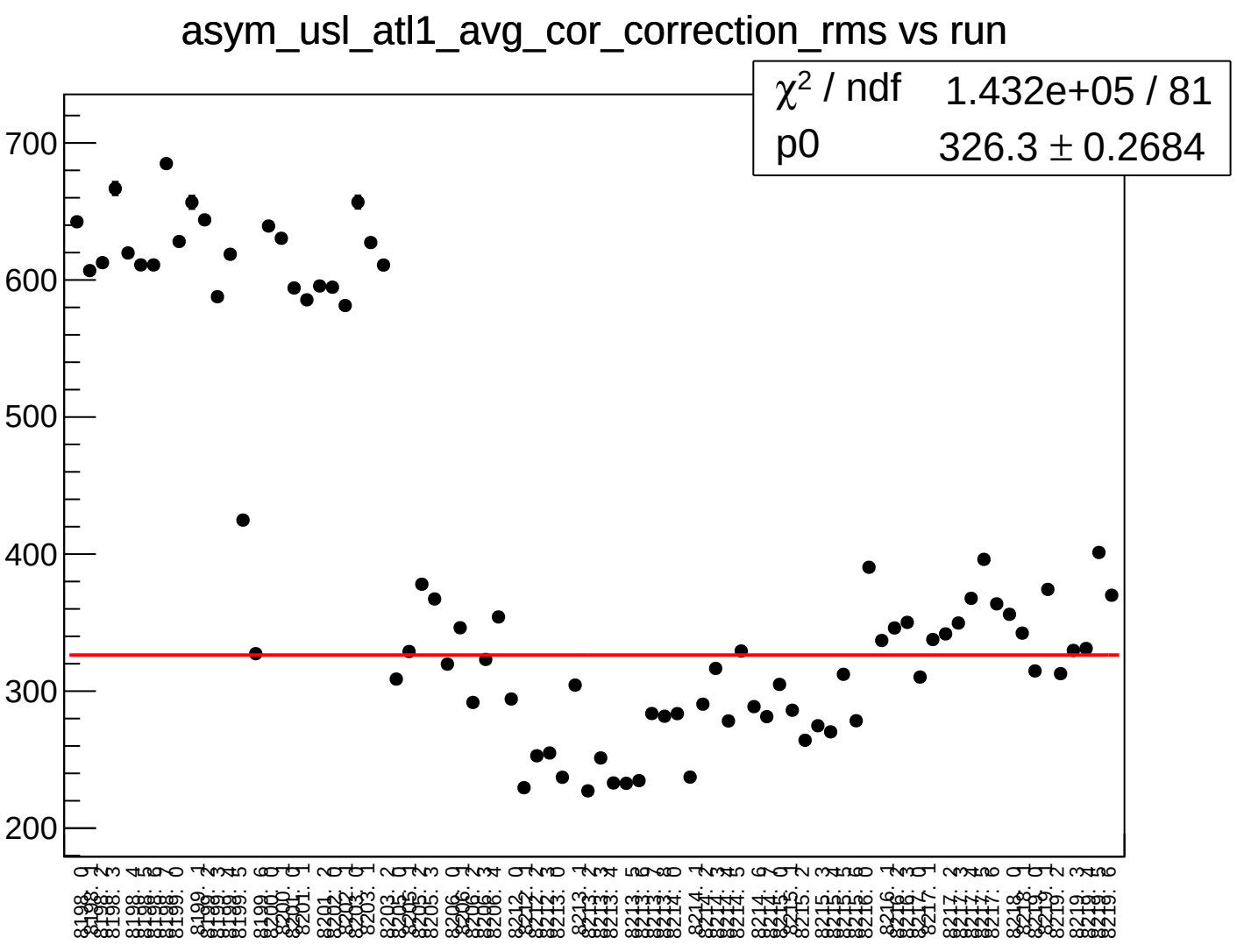

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.432e+05 / 81
p0 326.3 ± 0.2684
700
600
500
400
300
200

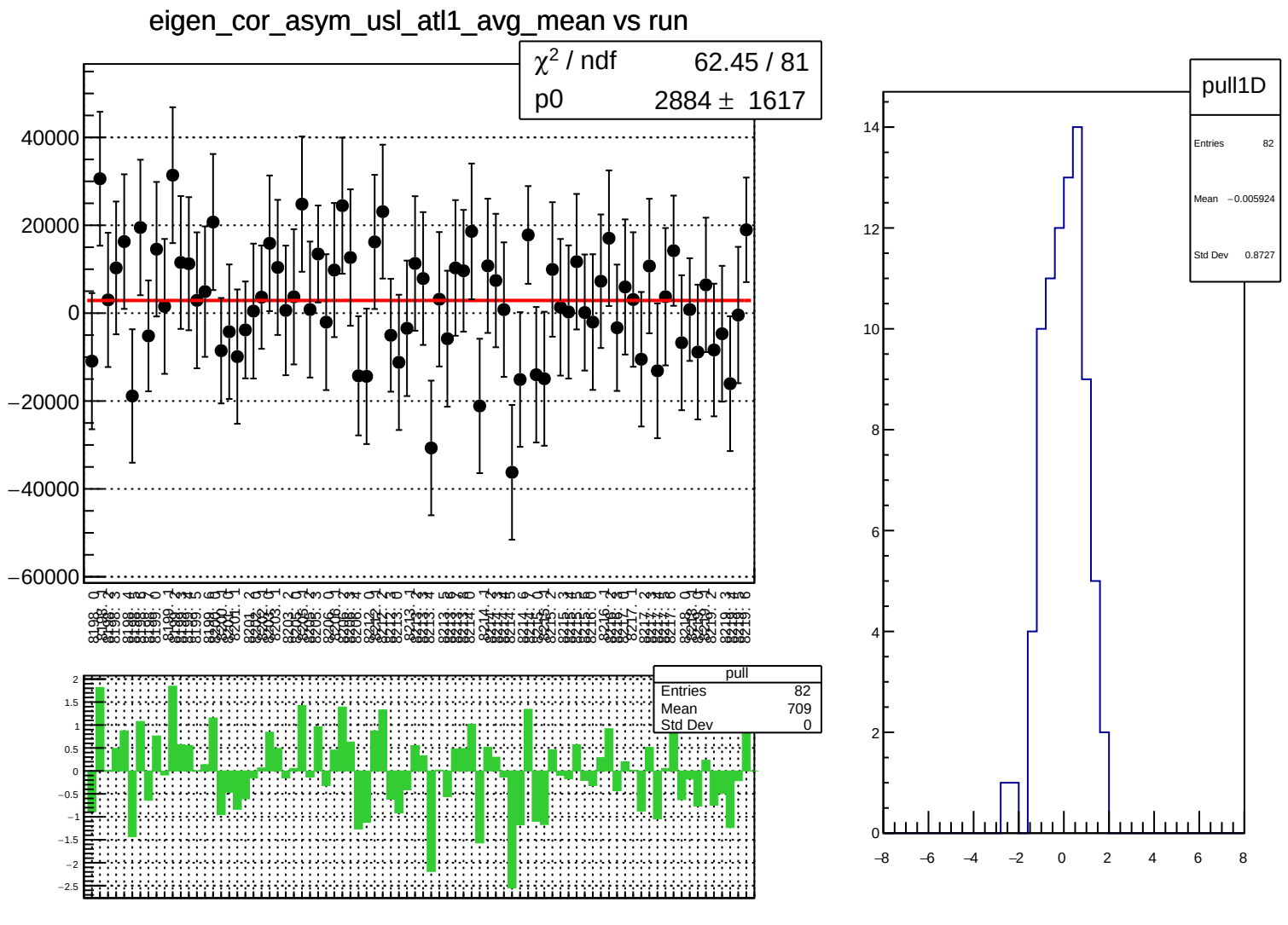

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 62.45 / 81
p0 2884 ± 1617
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 709
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean −0.005924
Std Dev 0.8727
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

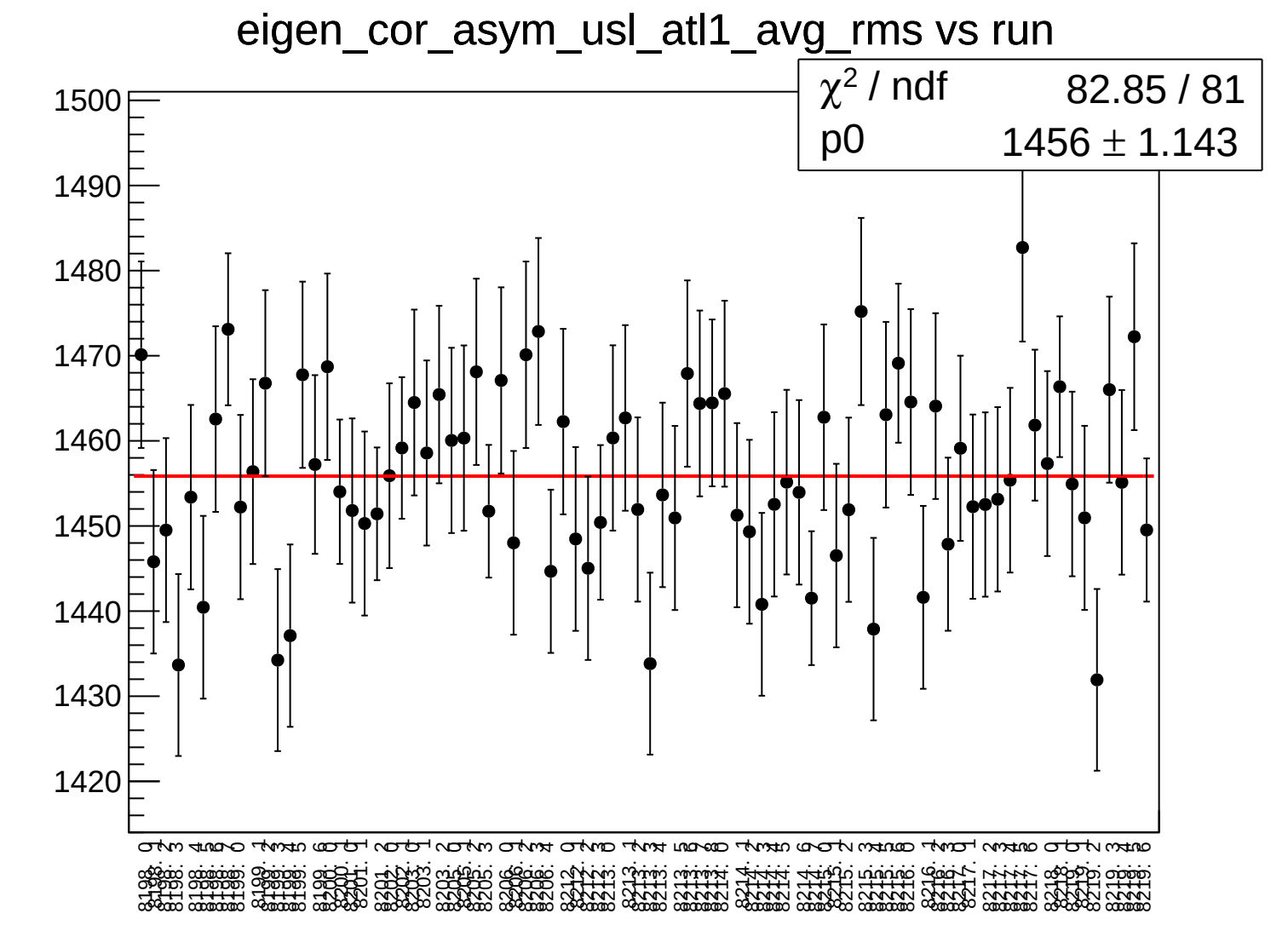

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 82.85 / 81
p0 1456 ± 1.143
1500
1490
1480
1470
1460
1450
1440
1430
1420

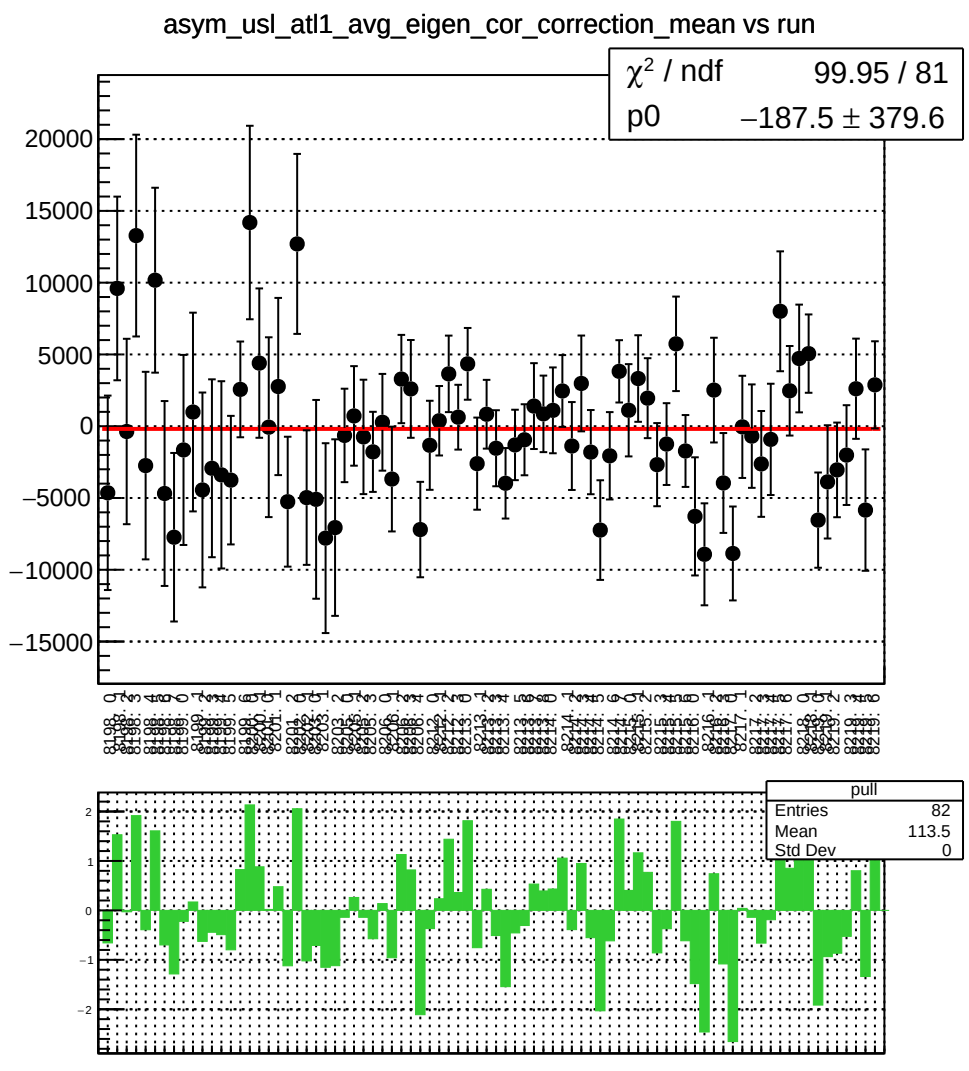

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 99.95 / 81
p0 −187.5 ± 379.6
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 113.5
Std Dev 0
2
1
0
−1
−2

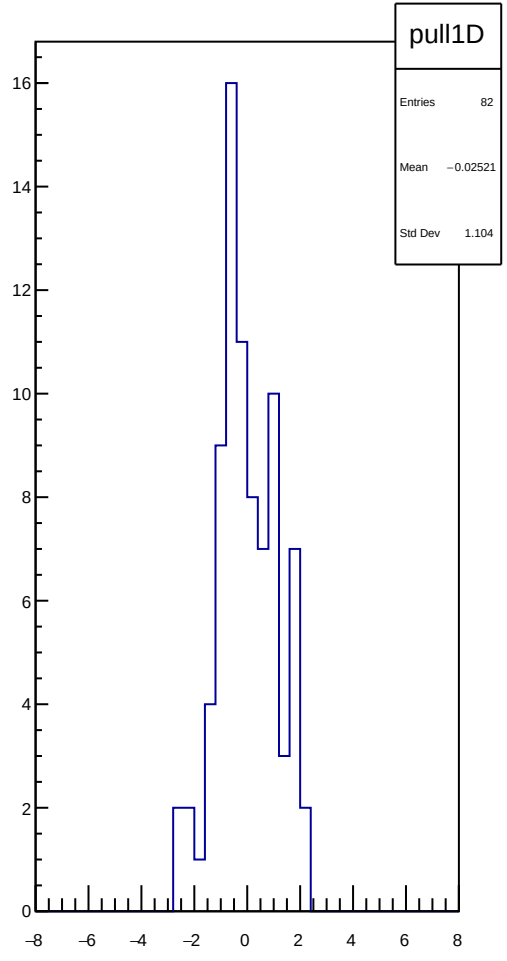

pull1D
Entries 82
Mean −0.02521
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

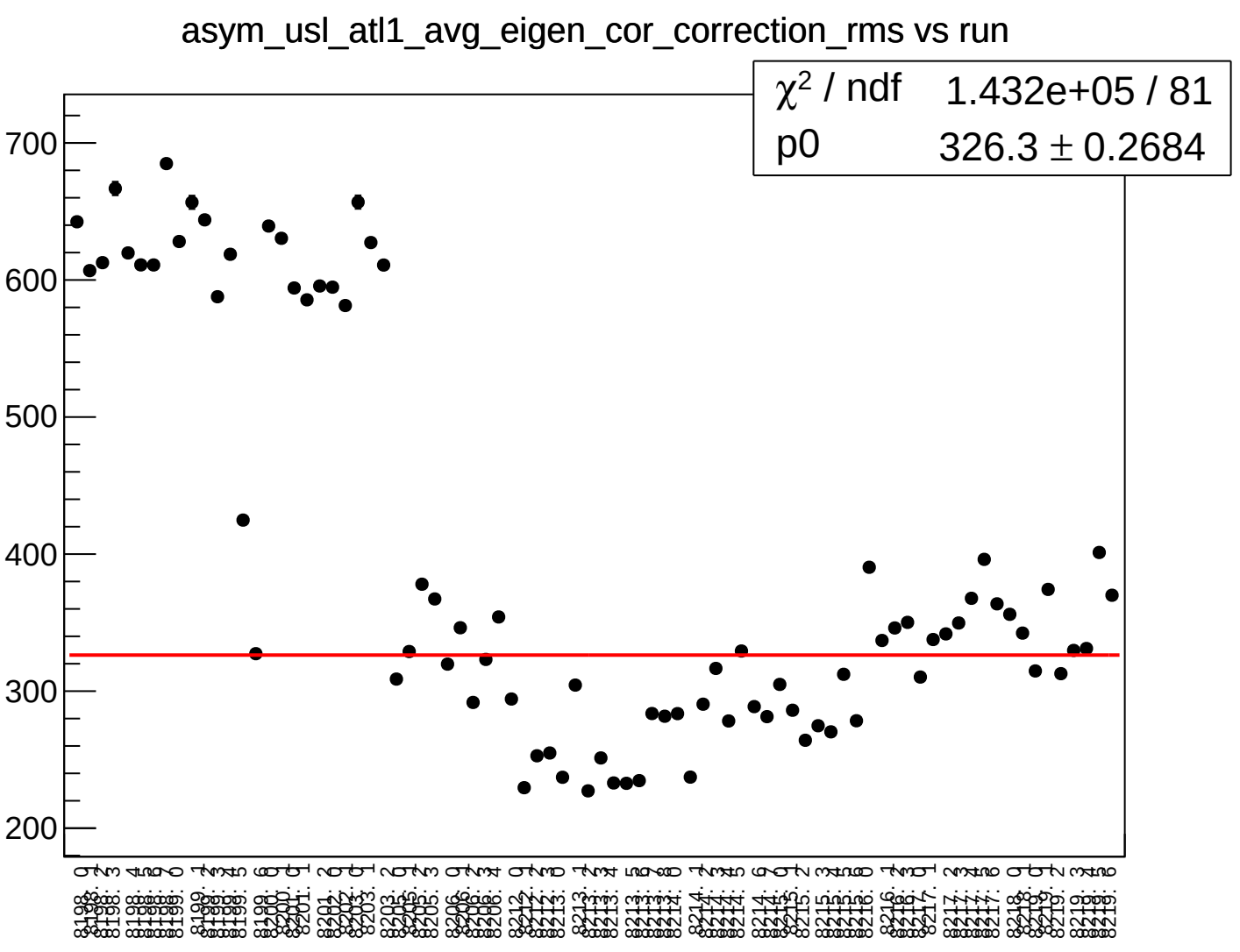

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.432e+05 / 81
p0 326.3 ± 0.2684
700
600
500
400
300
200

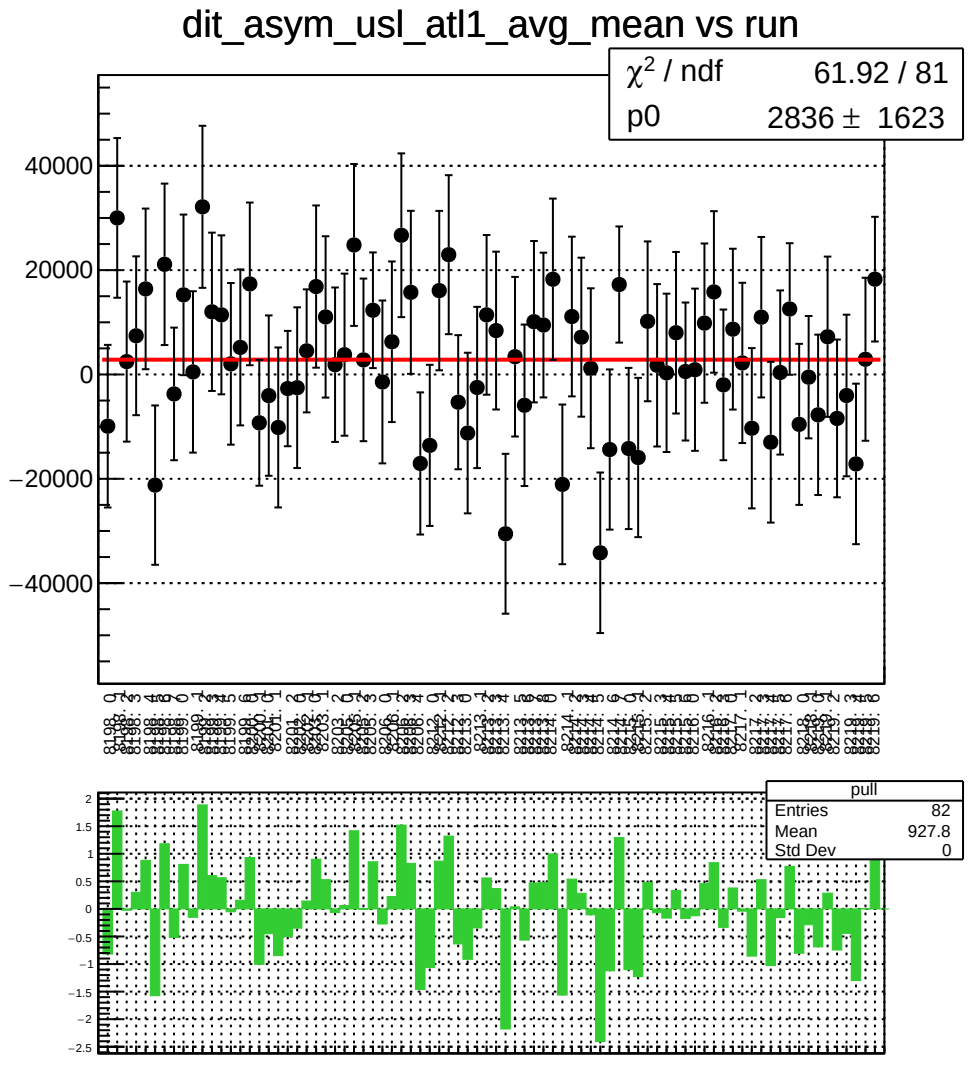

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 62.45 / 81
p0 2884 ± 1617
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 709
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean −0.005924
Std Dev 0.8727
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

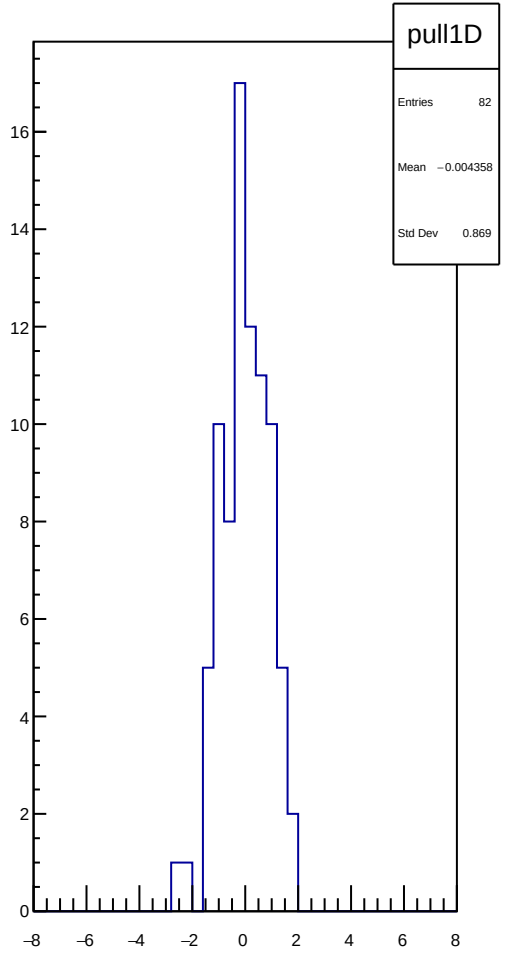

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 82.85 / 81
p0 1456 ± 1.143
1500
1490
1480
1470
1460
1450
1440
1430
1420


asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.95 / 81
p0 −187.5 ± 379.6
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 113.5
Std Dev 0
2
1
0
−1
−2

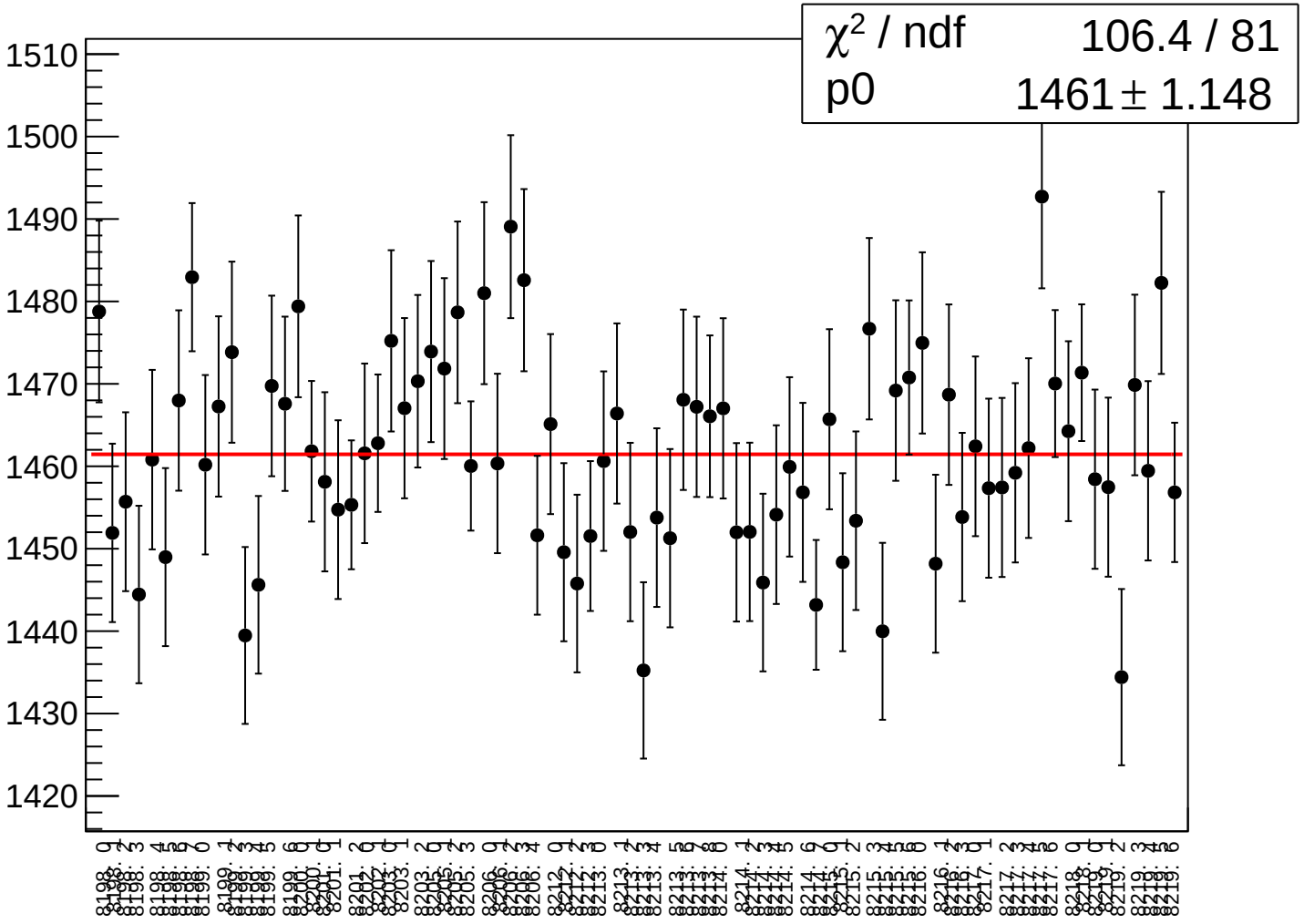

pull1D
Entries 82
Mean −0.02521
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

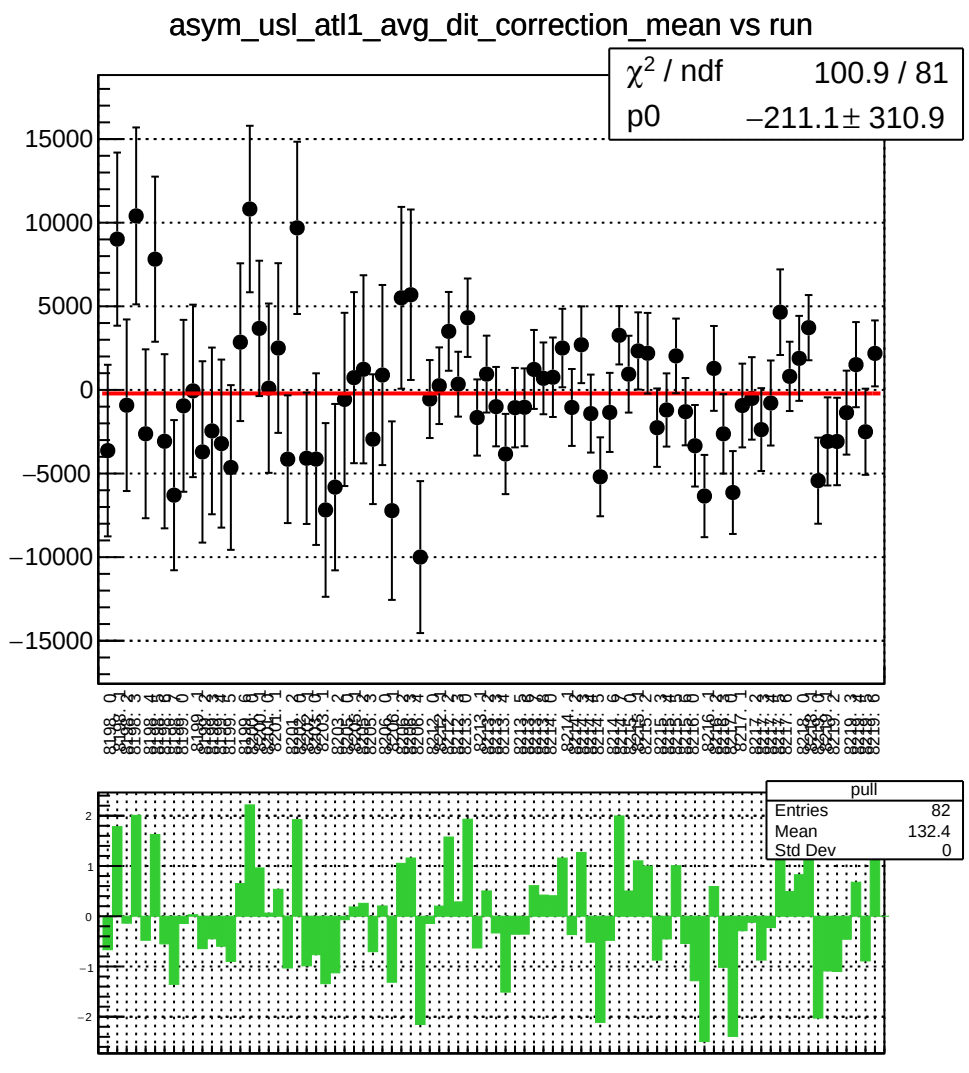

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.432e+05 / 81
p0 326.3 ± 0.2684
700
600
500
400
300
200

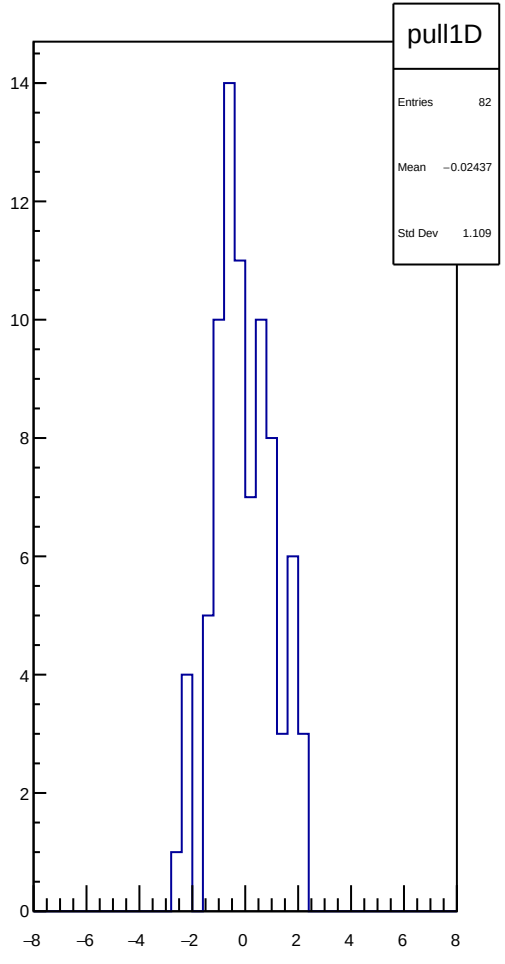

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 61.92 / 81
p0 2836 ± 1623
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 927.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

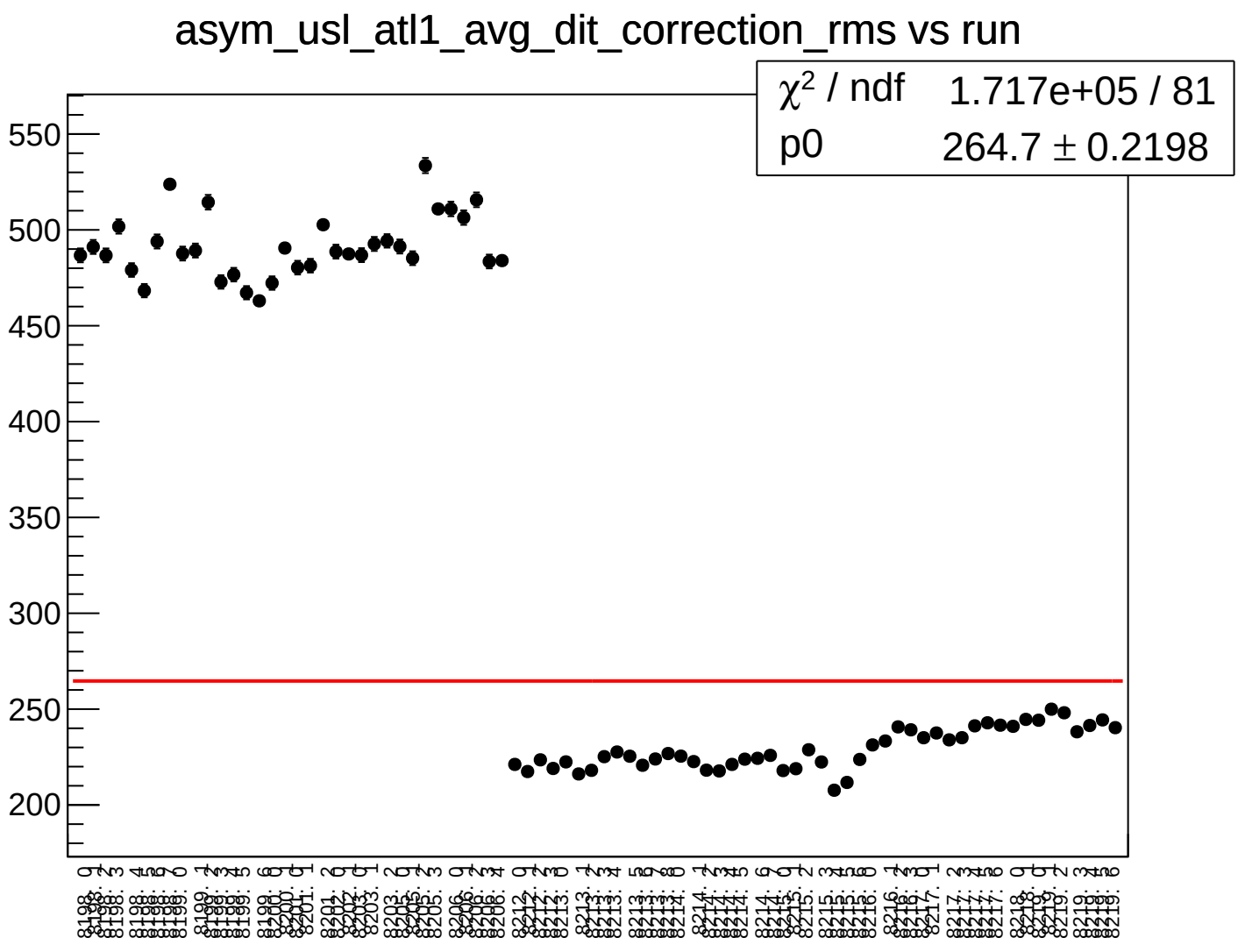

pull1D
Entries 82
Mean −0.004358
Std Dev 0.869
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

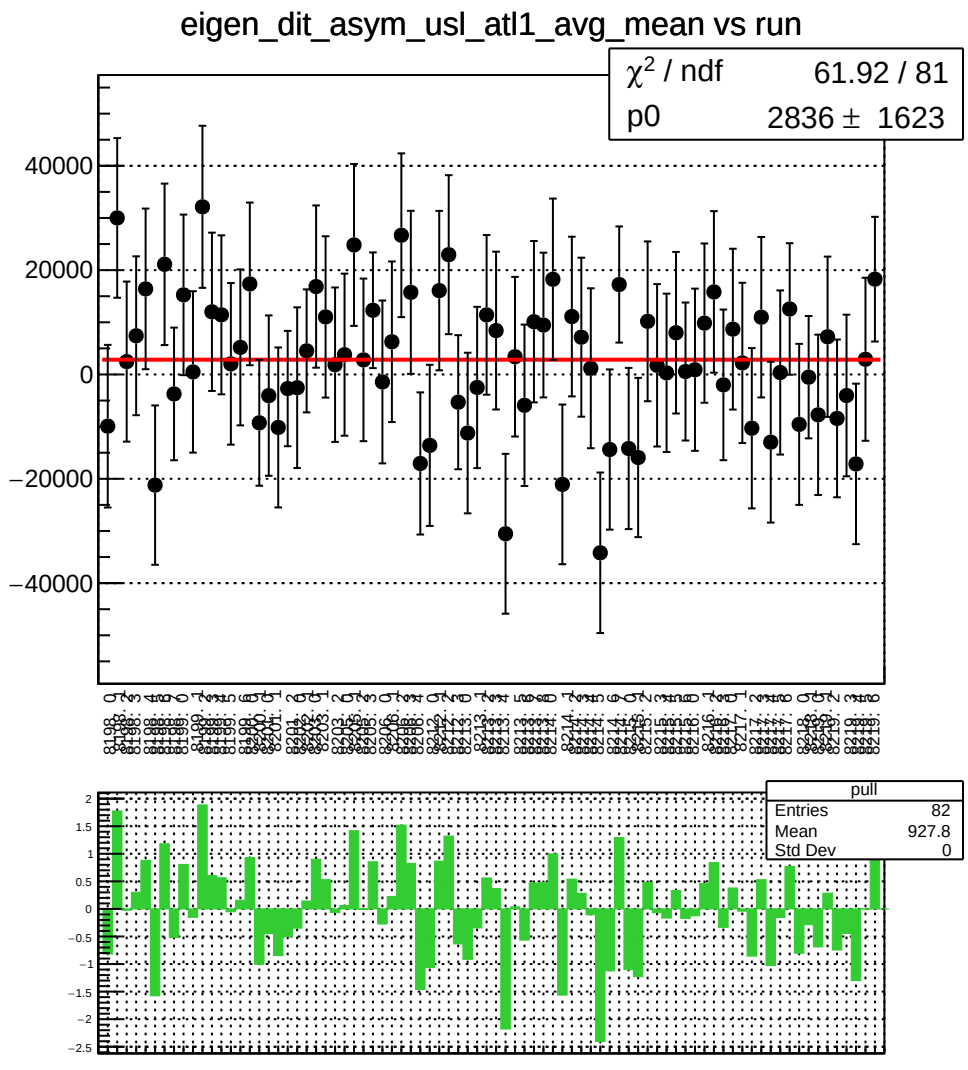
# dit_asym_usl_atl1_avg_rms vs run

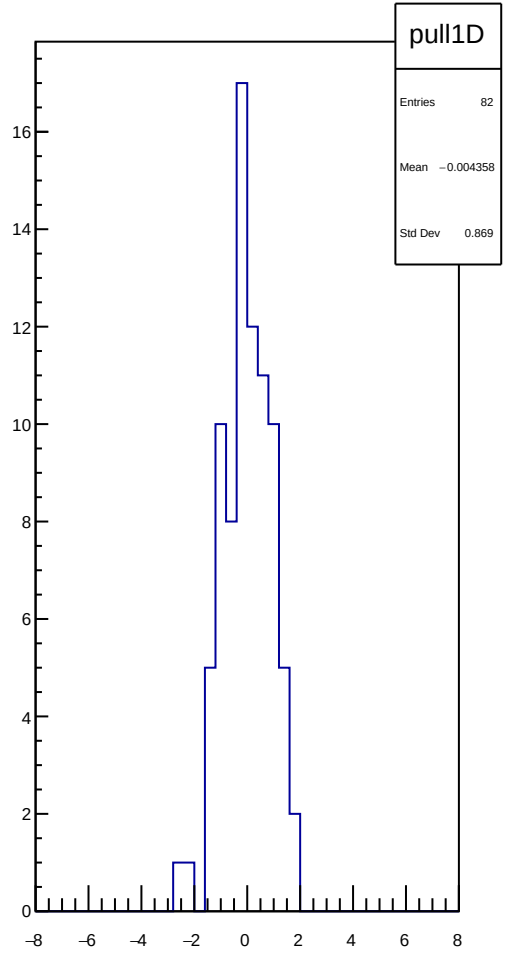


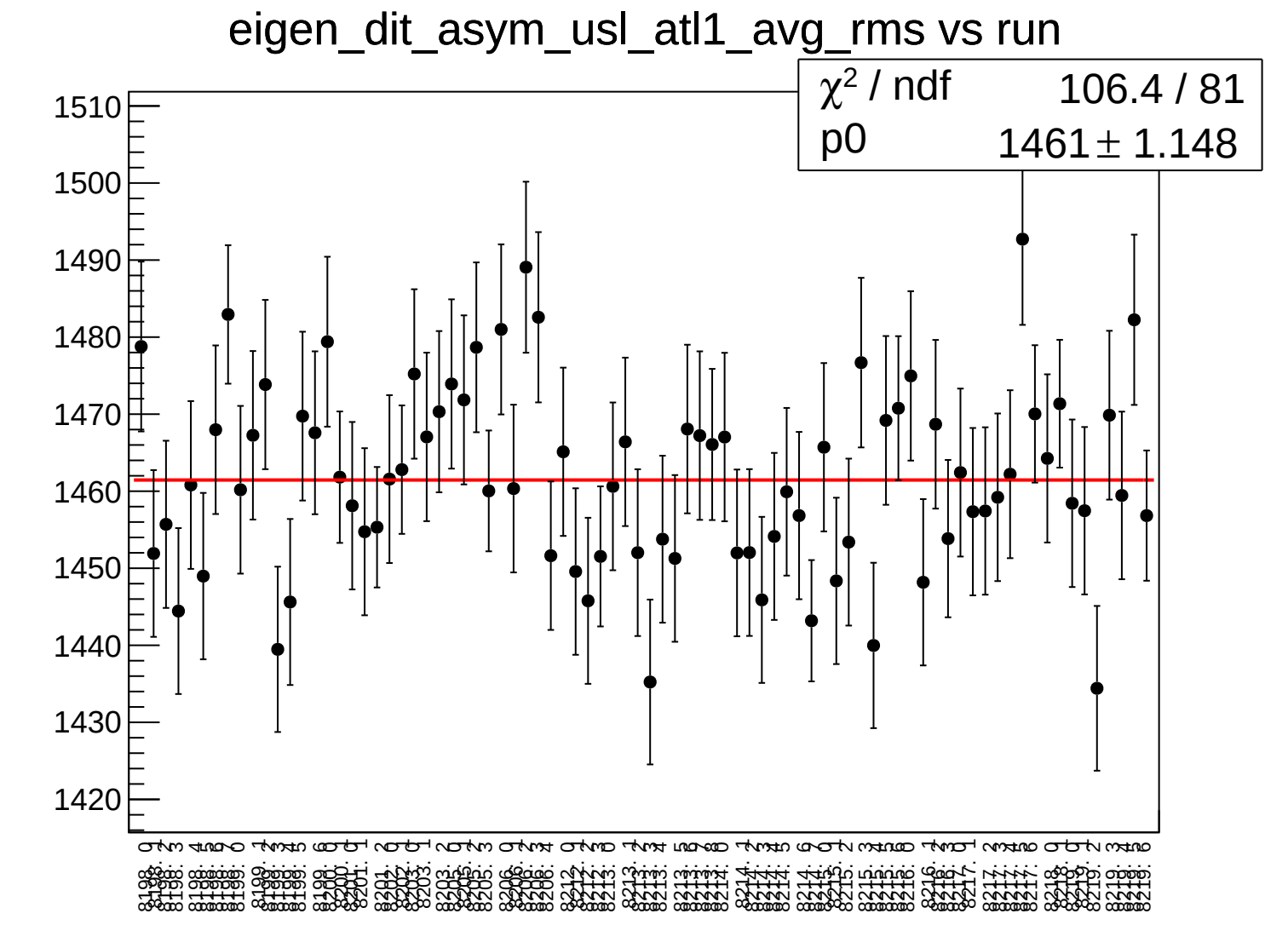

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 100.9 / 81
p0 −211.1± 310.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 132.4
Std Dev 0
2
1
0
−1
−2

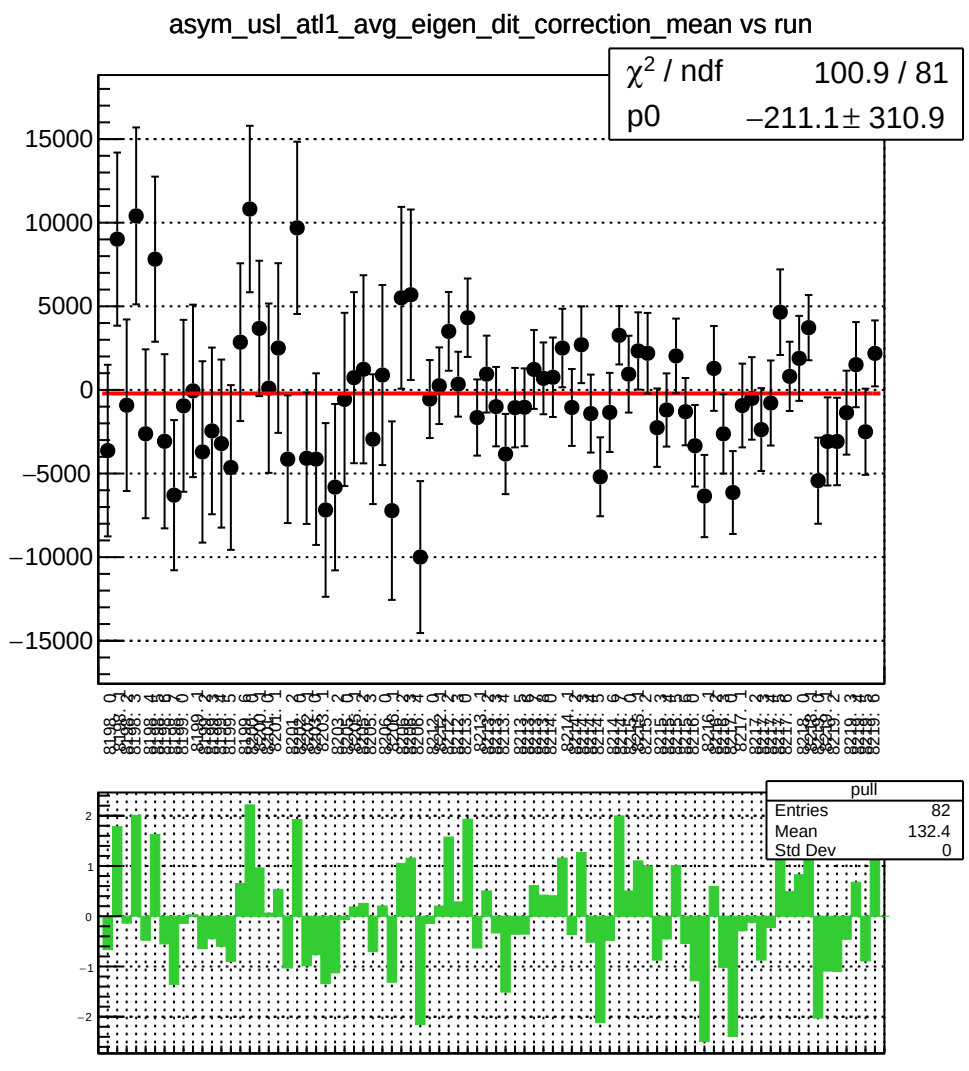

pull1D
Entries 82
Mean −0.02437
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

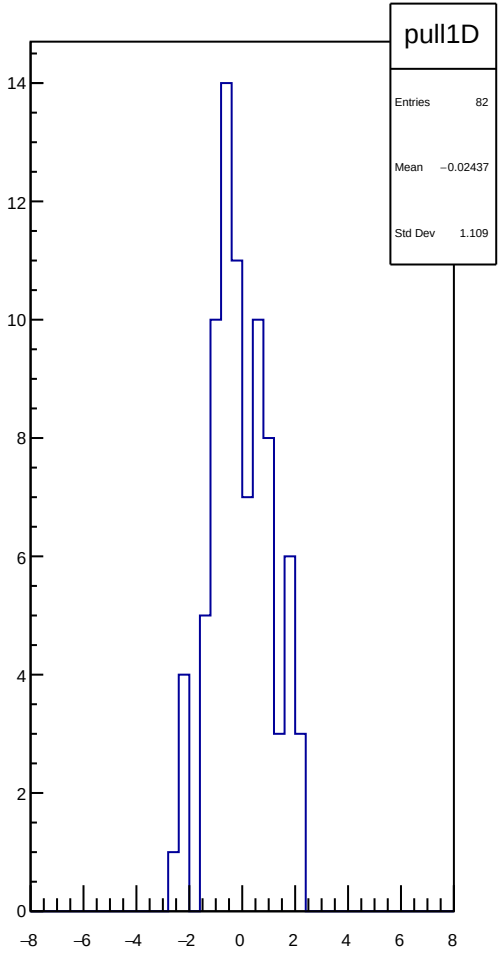

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1.717e+05 / 81
p0 264.7 ± 0.2198
550
500
450
400
350
300
250
200

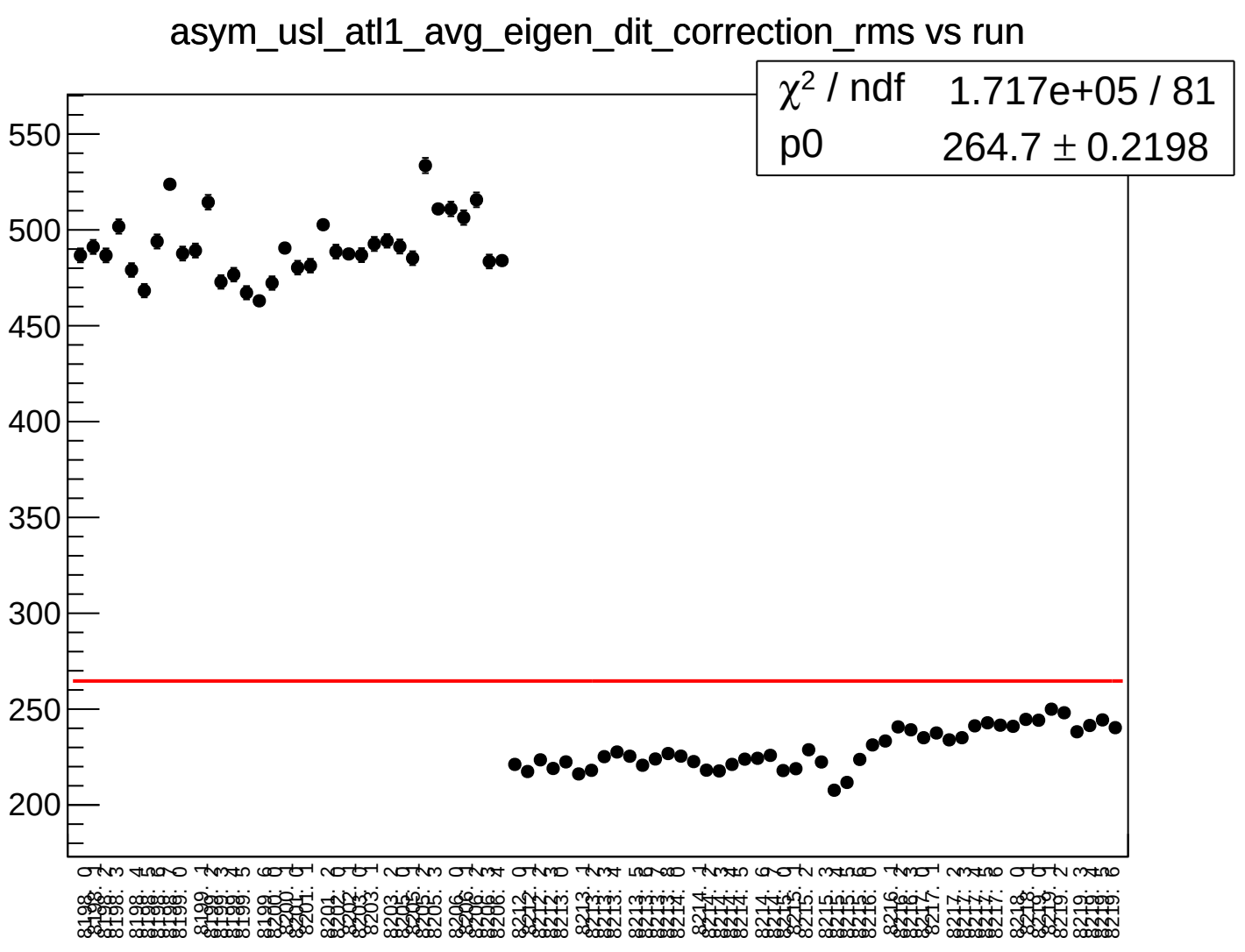

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 61.92 / 81
p0 2836 ± 1623
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 927.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

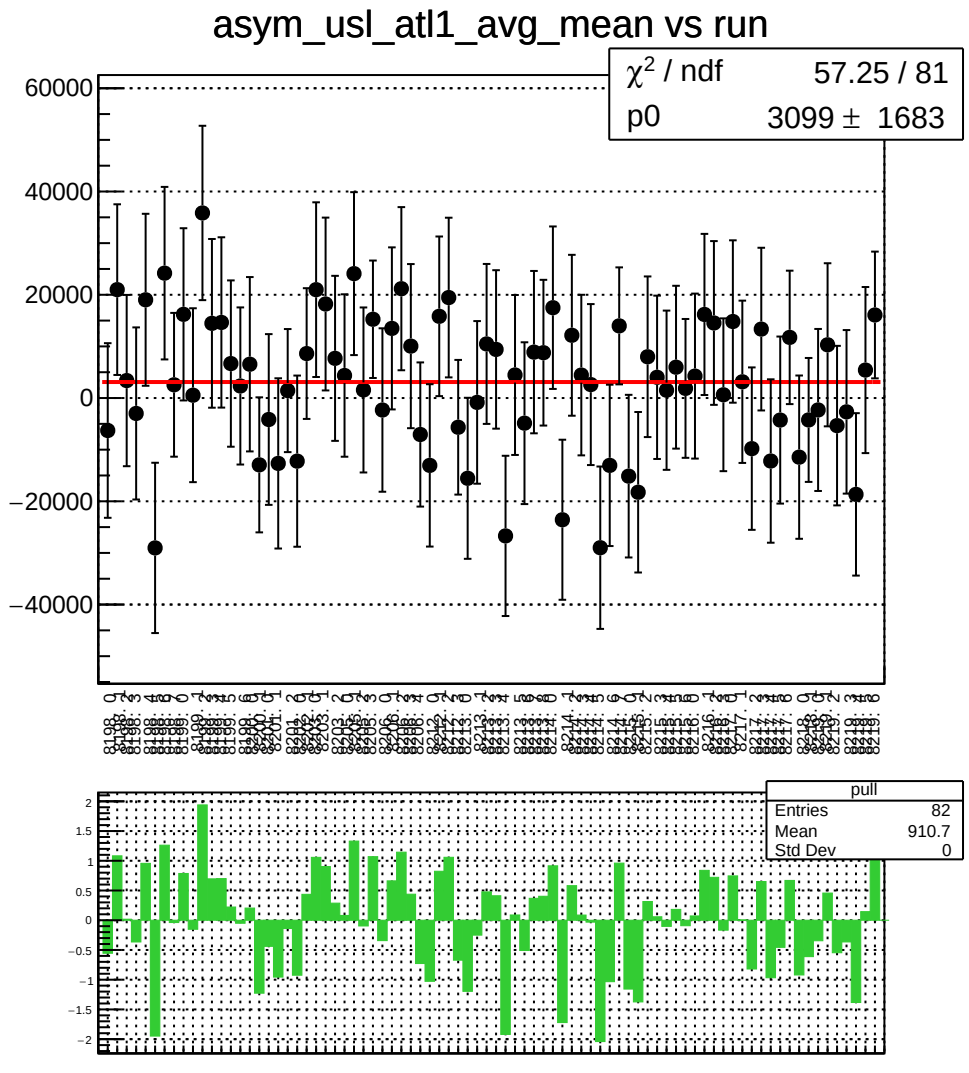

pull1D
Entries 82
Mean −0.004358
Std Dev 0.869
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

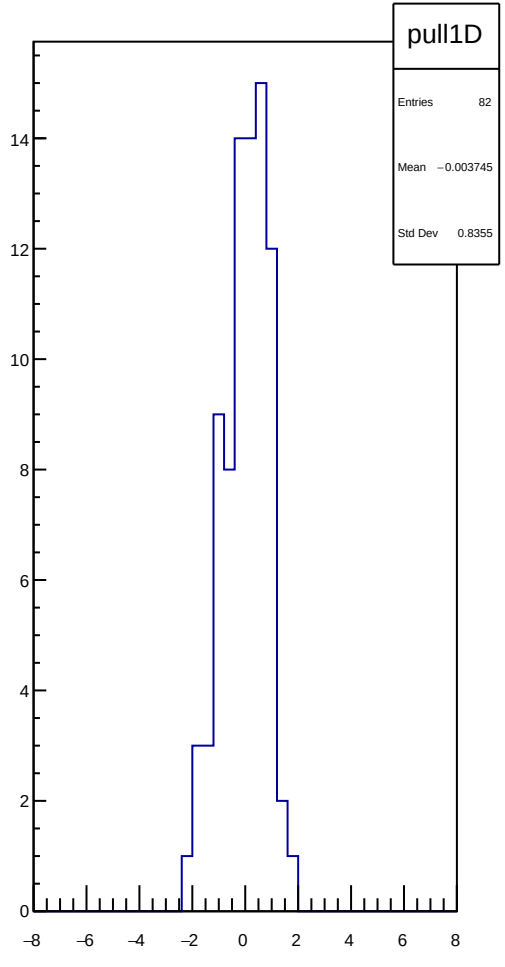

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 106.4 / 81
p0 1461 ± 1.148
1510
1500
1490
1480
1470
1460
1450
1440
1430
1420

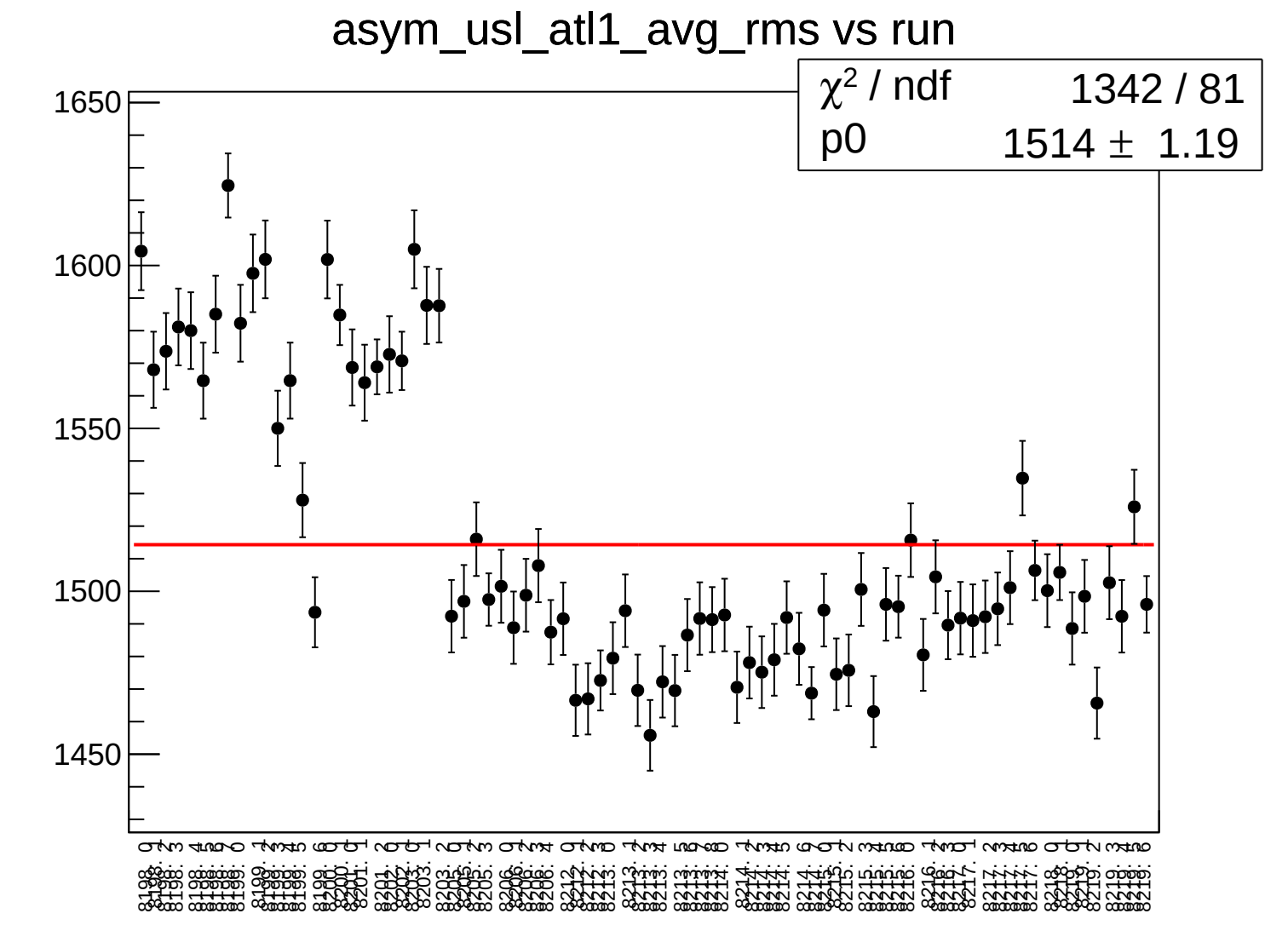

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.9 / 81
p0 −211.1± 310.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 132.4
Std Dev 0
2
1
0
−1
−2

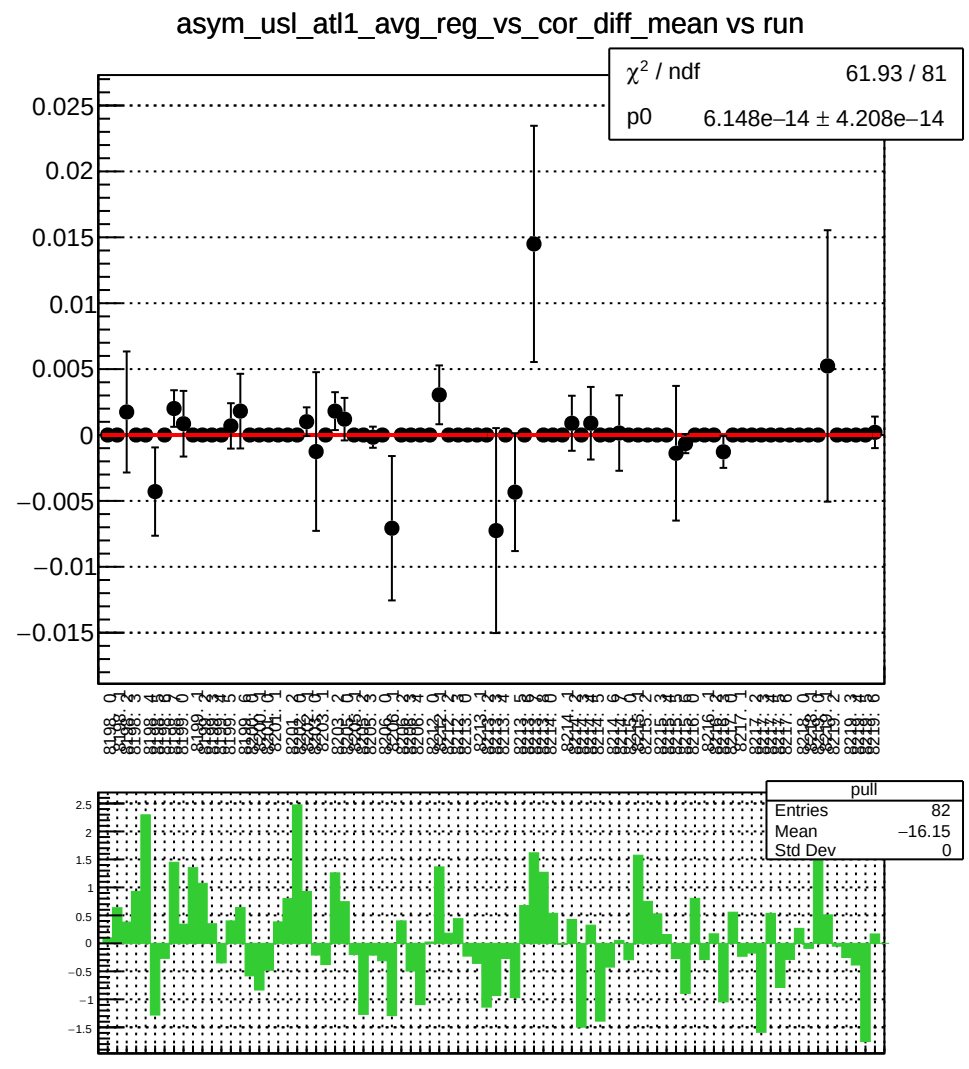

pull1D
Entries 82
Mean −0.02437
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

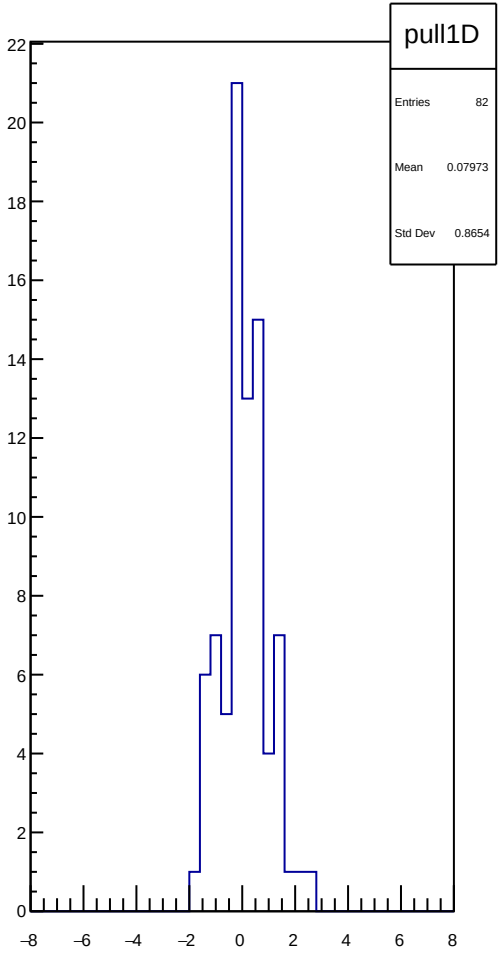

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.717e+05 / 81
p0 264.7 ± 0.2198
550
500
450
400
350
300
250
200

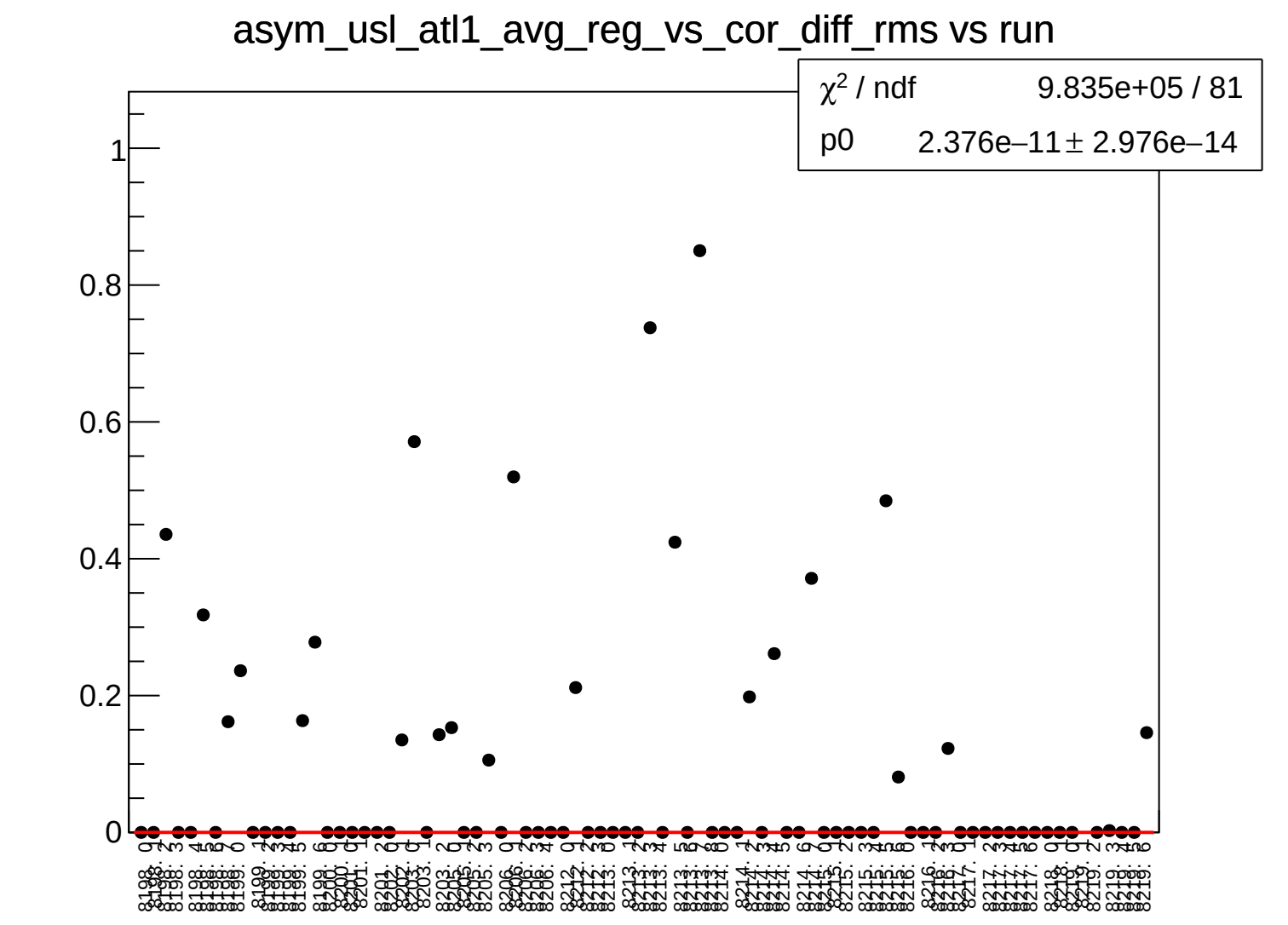

asym_usl_atl1_avg_mean vs run
χ² / ndf 57.25 / 81
p0 3099 ± 1683
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 910.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

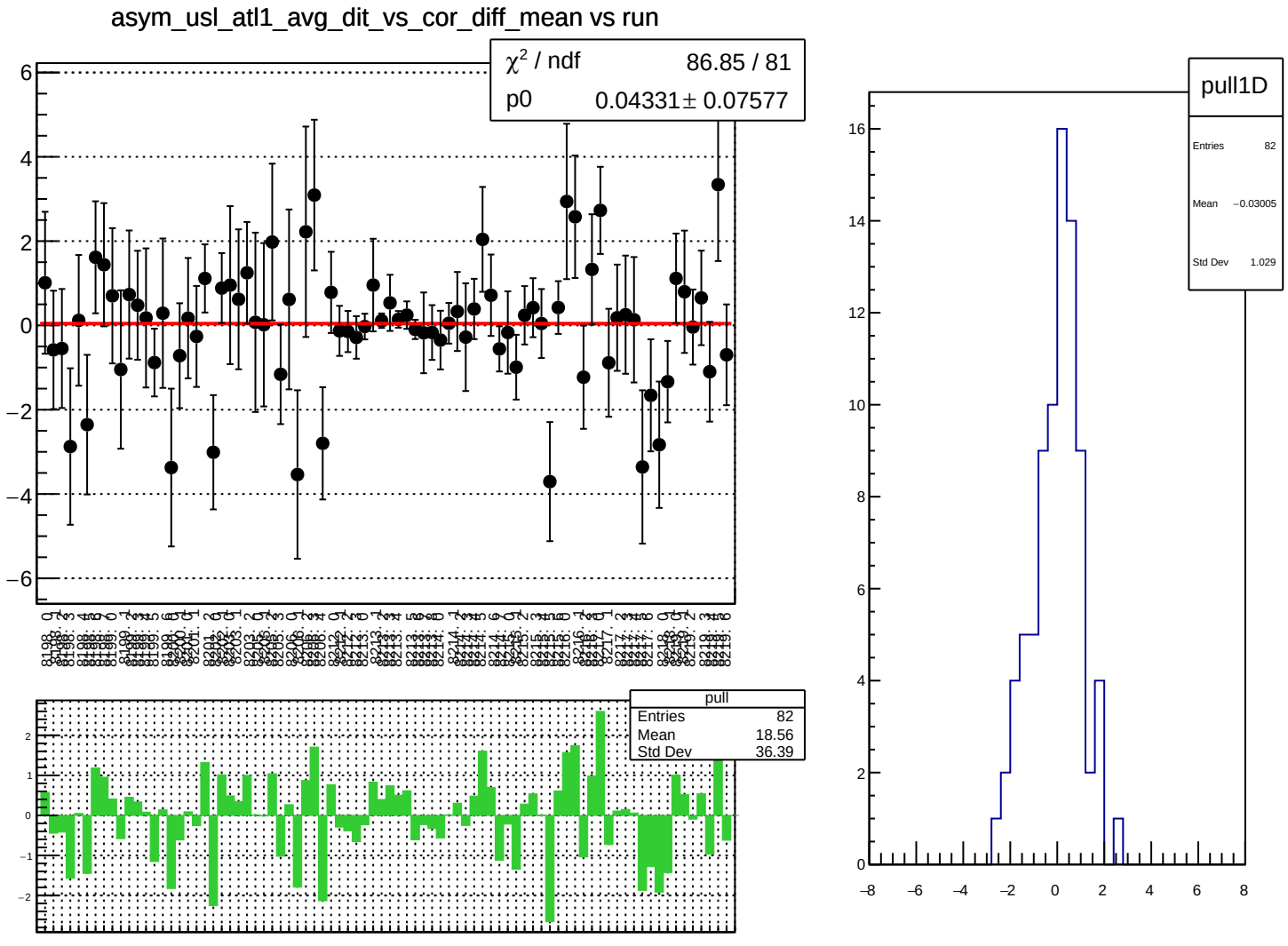

pull1D
Entries 82
Mean −0.003745
Std Dev 0.8355
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

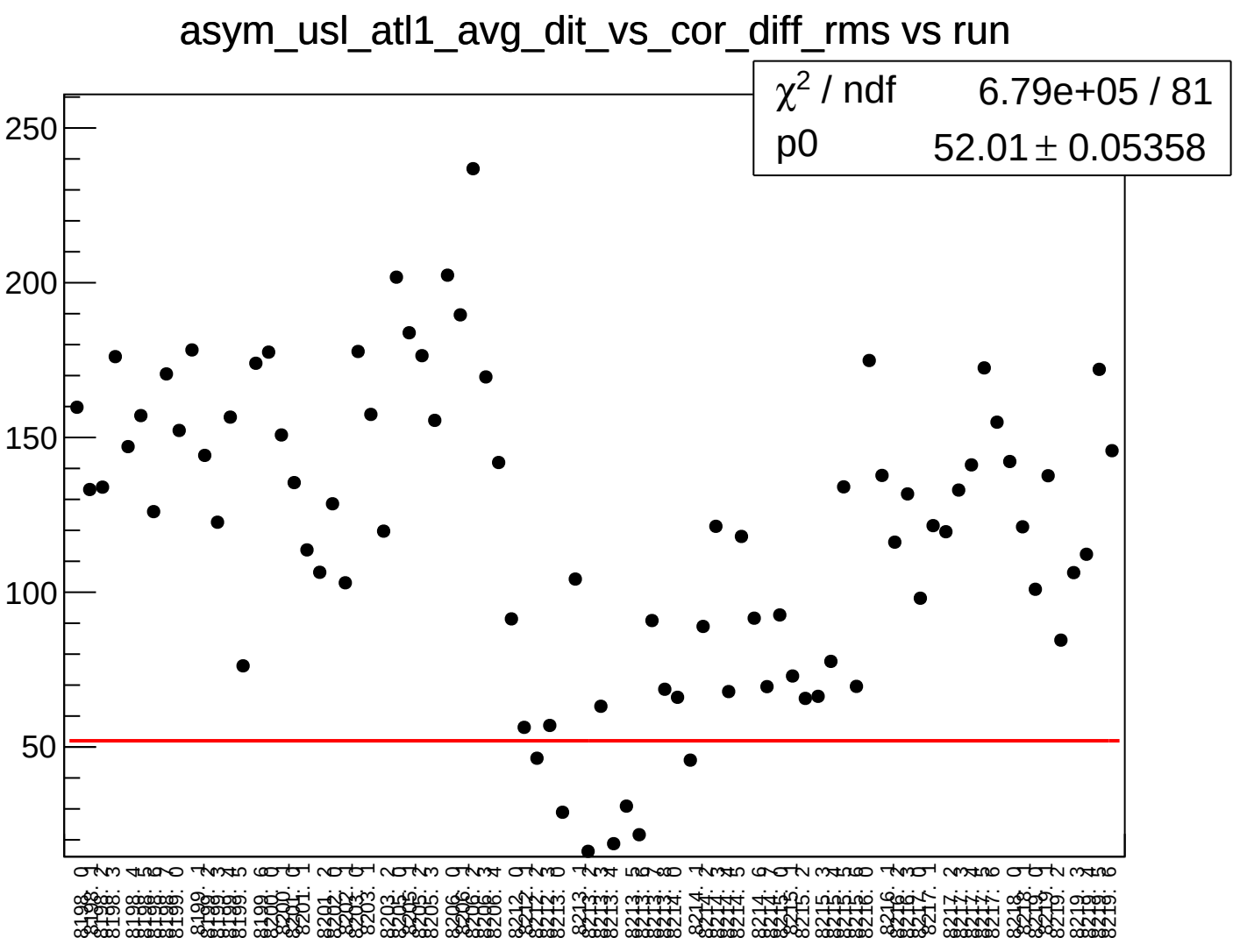

asym_usl_atl1_avg_rms vs run
χ² / ndf 1342 / 81
p0 1514 ± 1.19
1650
1600
1550
1500
1450

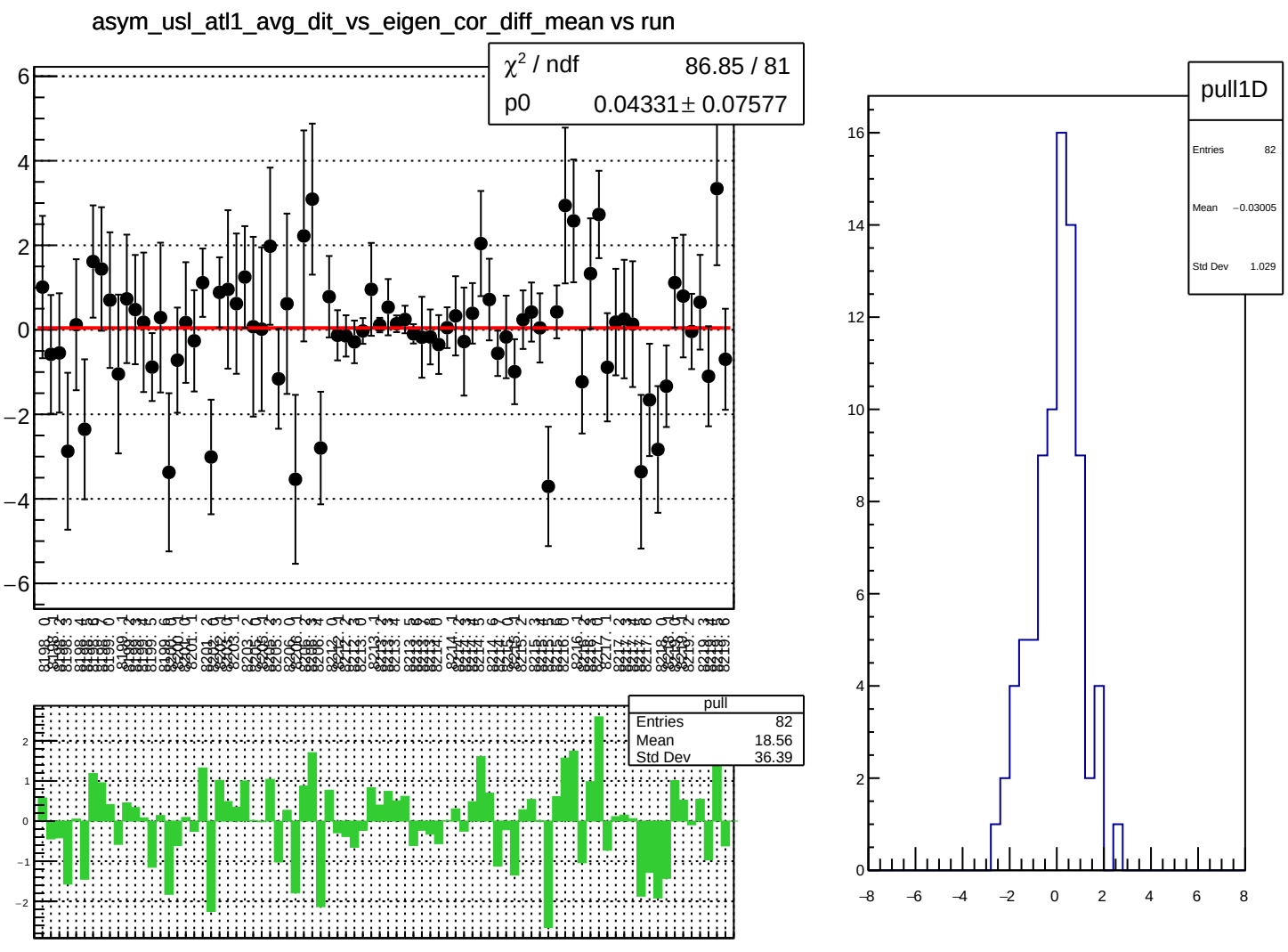

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 61.93 / 81
p0 6.148e−14 ± 4.208e−14
pull
Entries 82
Mean −16.15
Std Dev 0

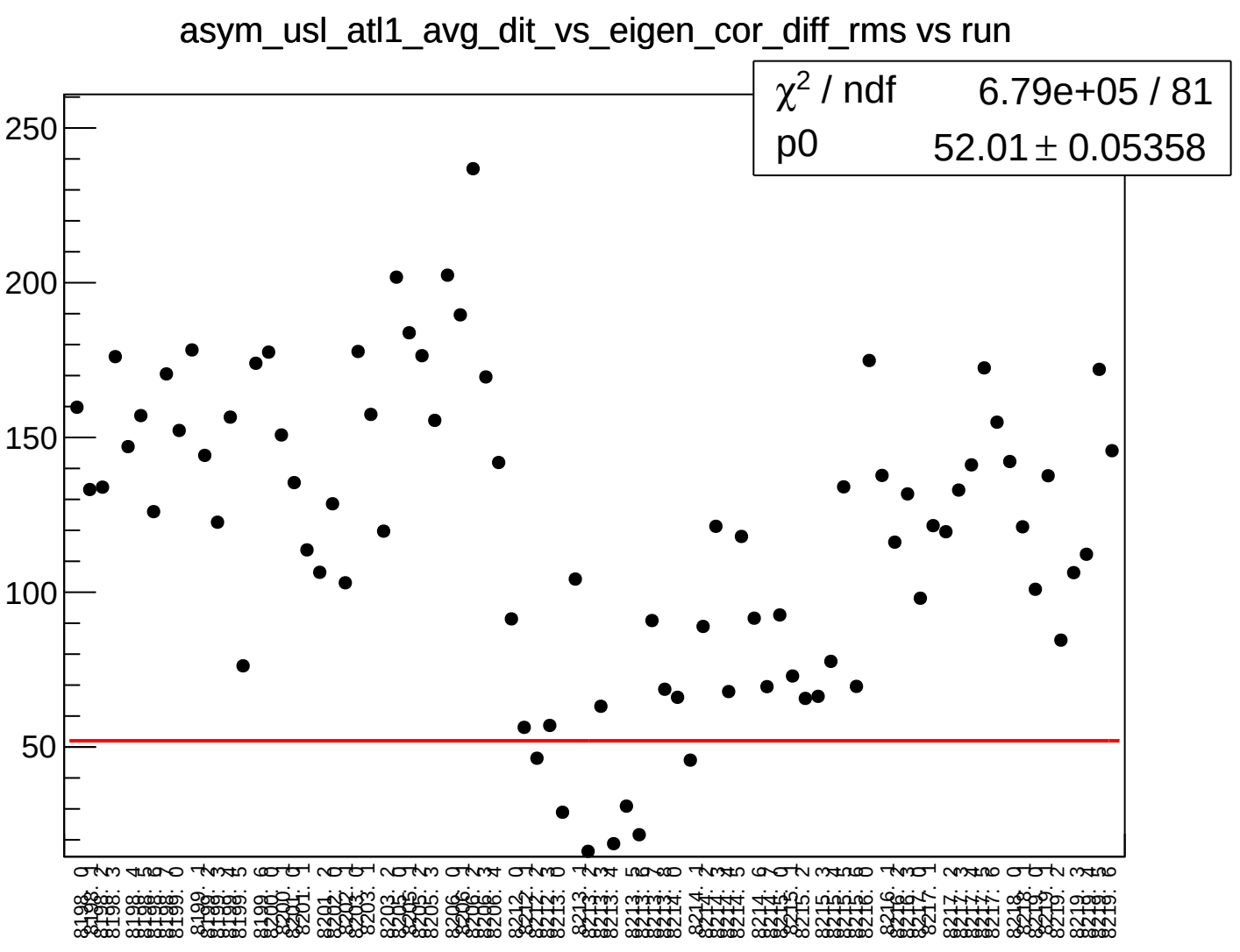

pull1D
Entries 82
Mean 0.07973
Std Dev 0.8654

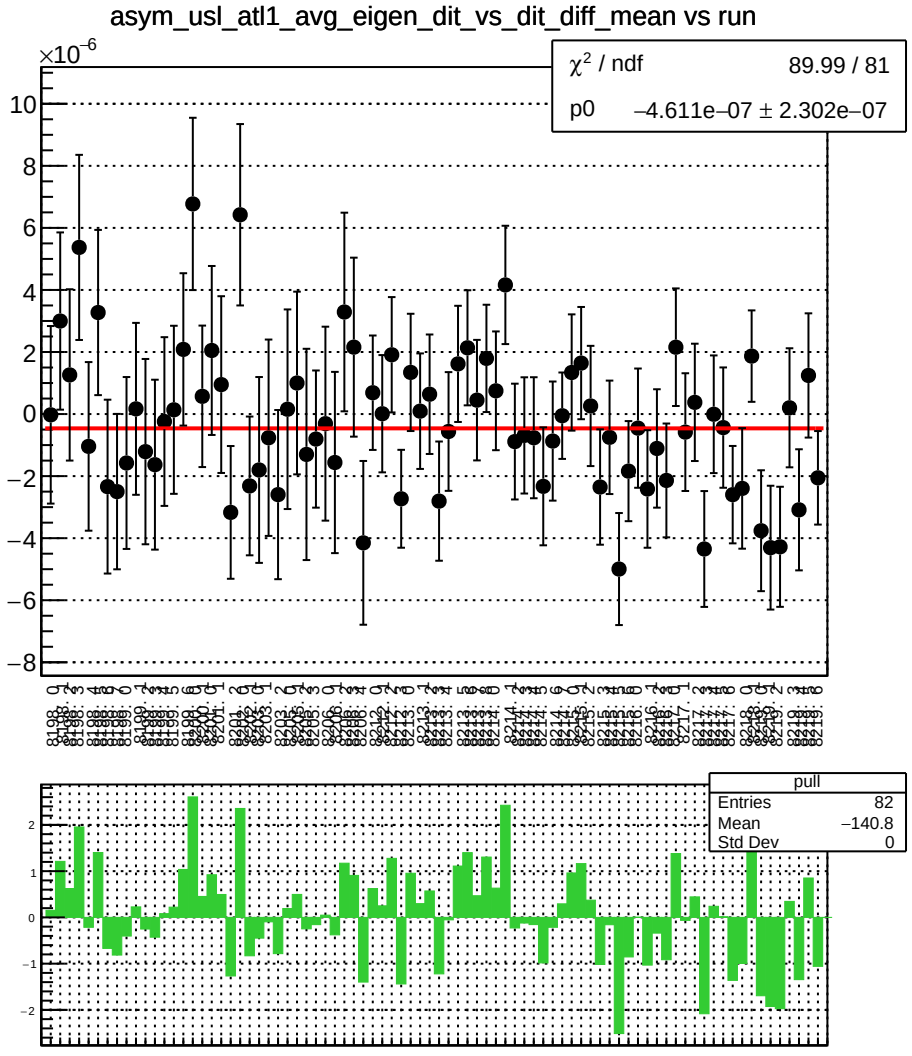

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.835e+05 / 81
p0 2.376e−11 ± 2.976e−14
1
0.8
0.6
0.4
0.2
0

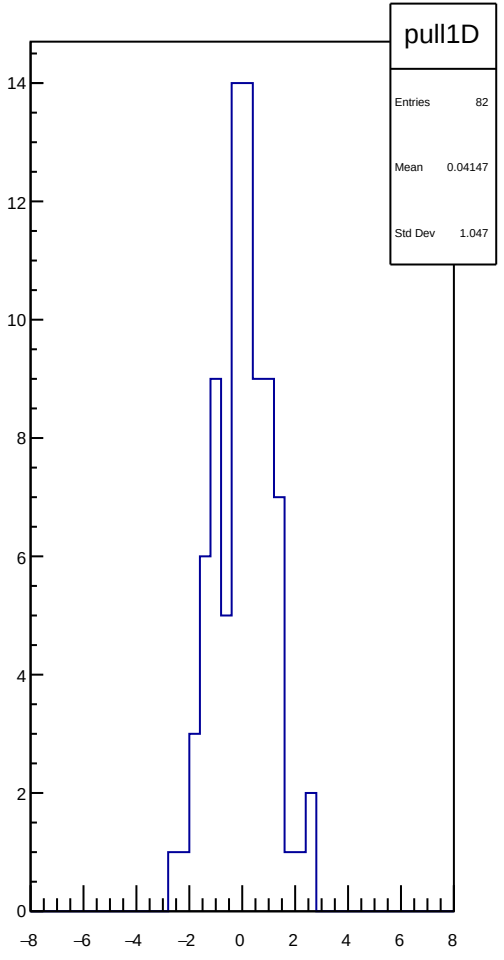

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.85 / 81
p0 0.04331 ± 0.07577
pull
Entries 82
Mean 18.56
Std Dev 36.39
pull1D
Entries 82
Mean −0.03005
Std Dev 1.029

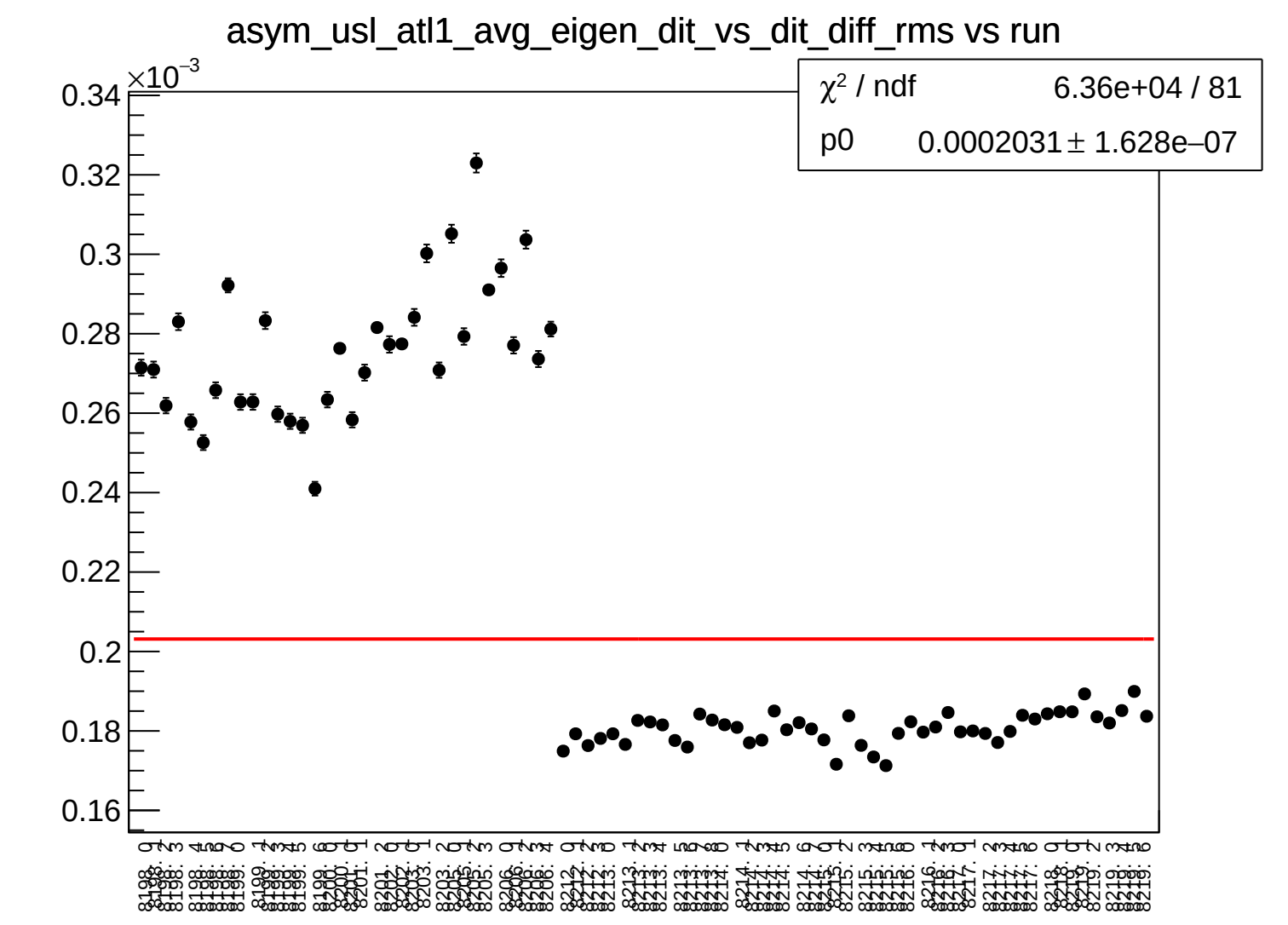

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.79e+05 / 81
p0 52.01 ± 0.05358
250
200
150
100
50

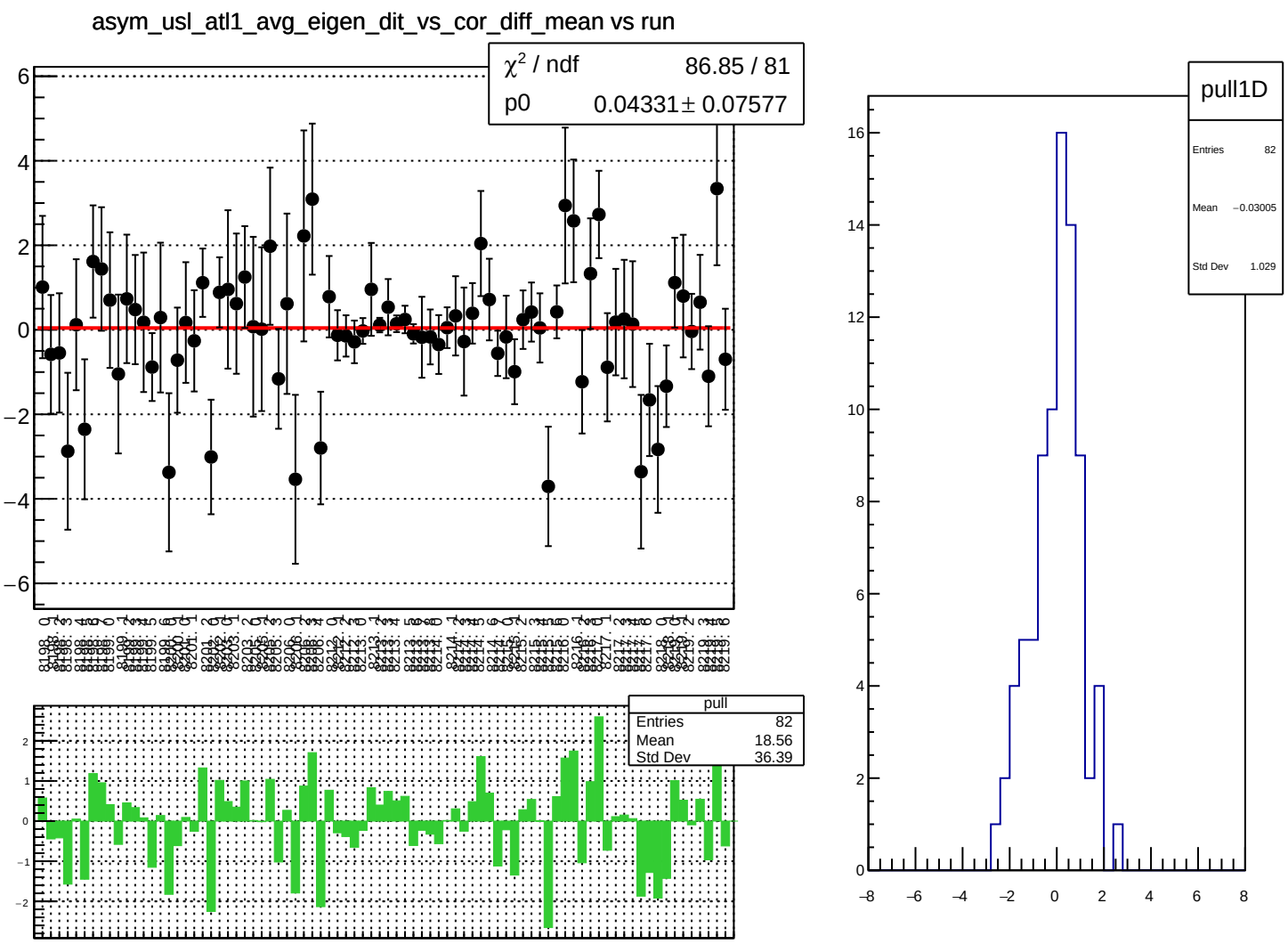

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.85 / 81
p0 0.04331 ± 0.07577
pull
Entries 82
Mean 18.56
Std Dev 36.39
pull1D
Entries 82
Mean −0.03005
Std Dev 1.029

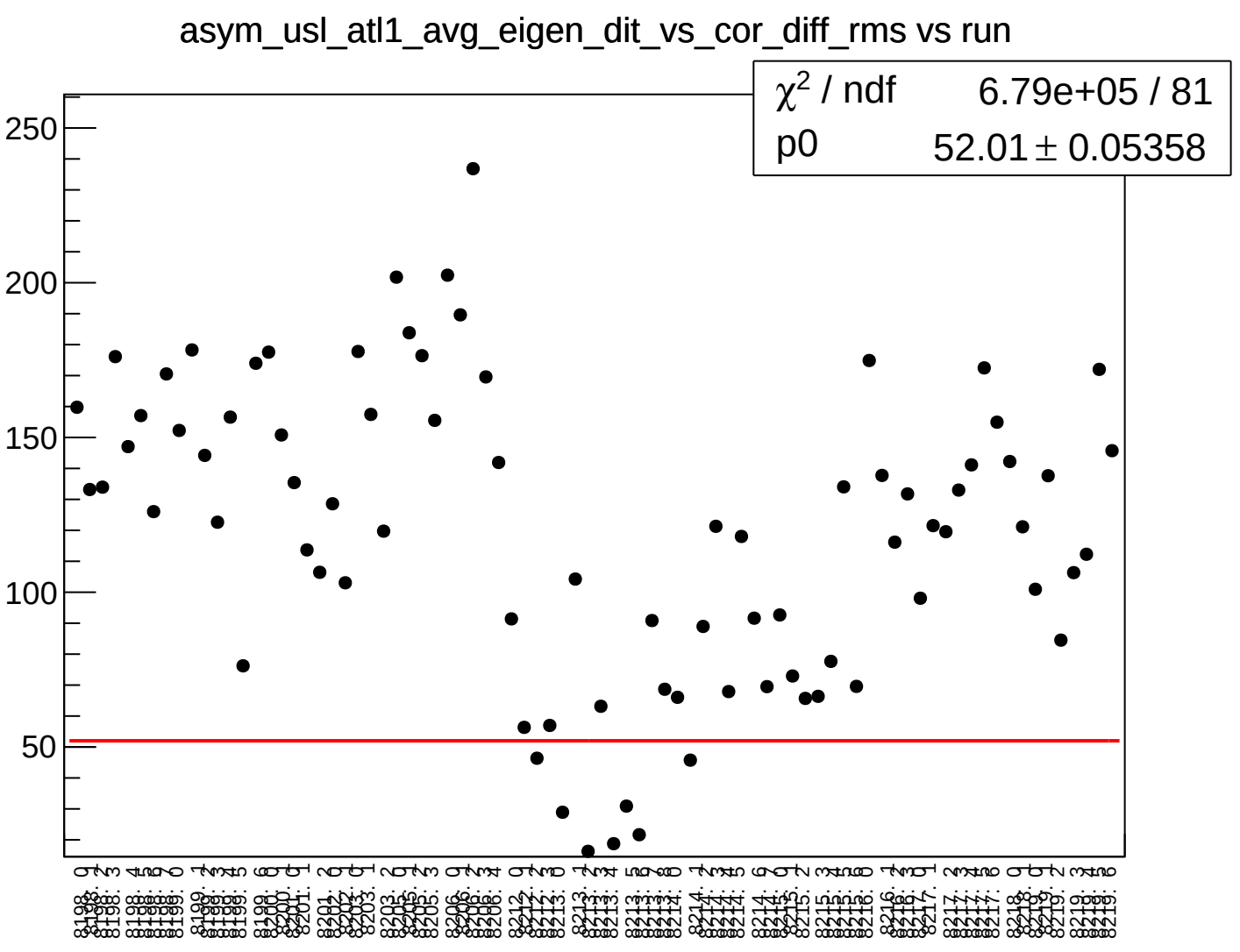

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.79e+05 / 81
p0 52.01 ± 0.05358
250
200
150
100
50

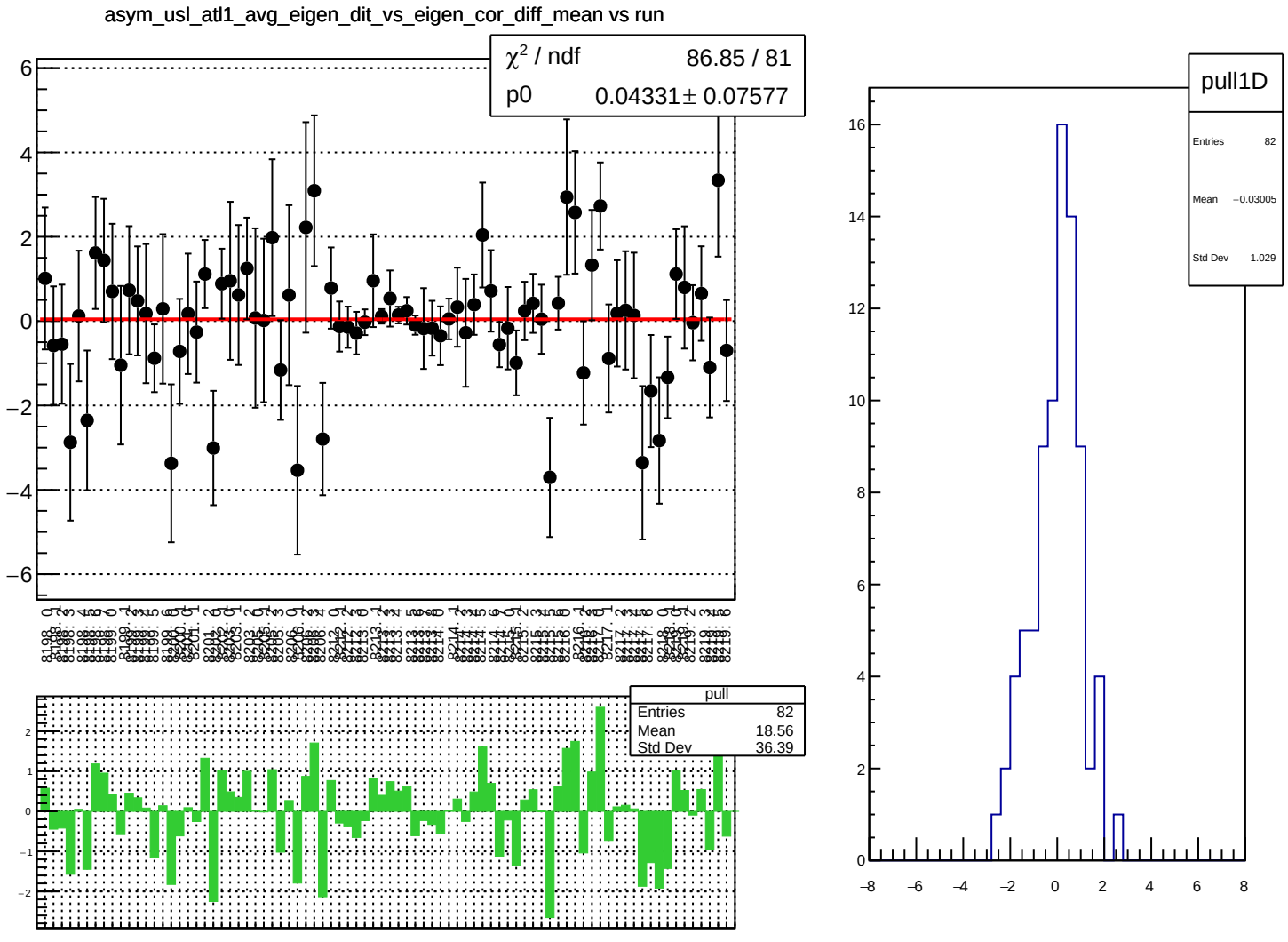

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.99 / 81
p0 −4.611e−07 ± 2.302e−07
pull
Entries 82
Mean −140.8
Std Dev 0

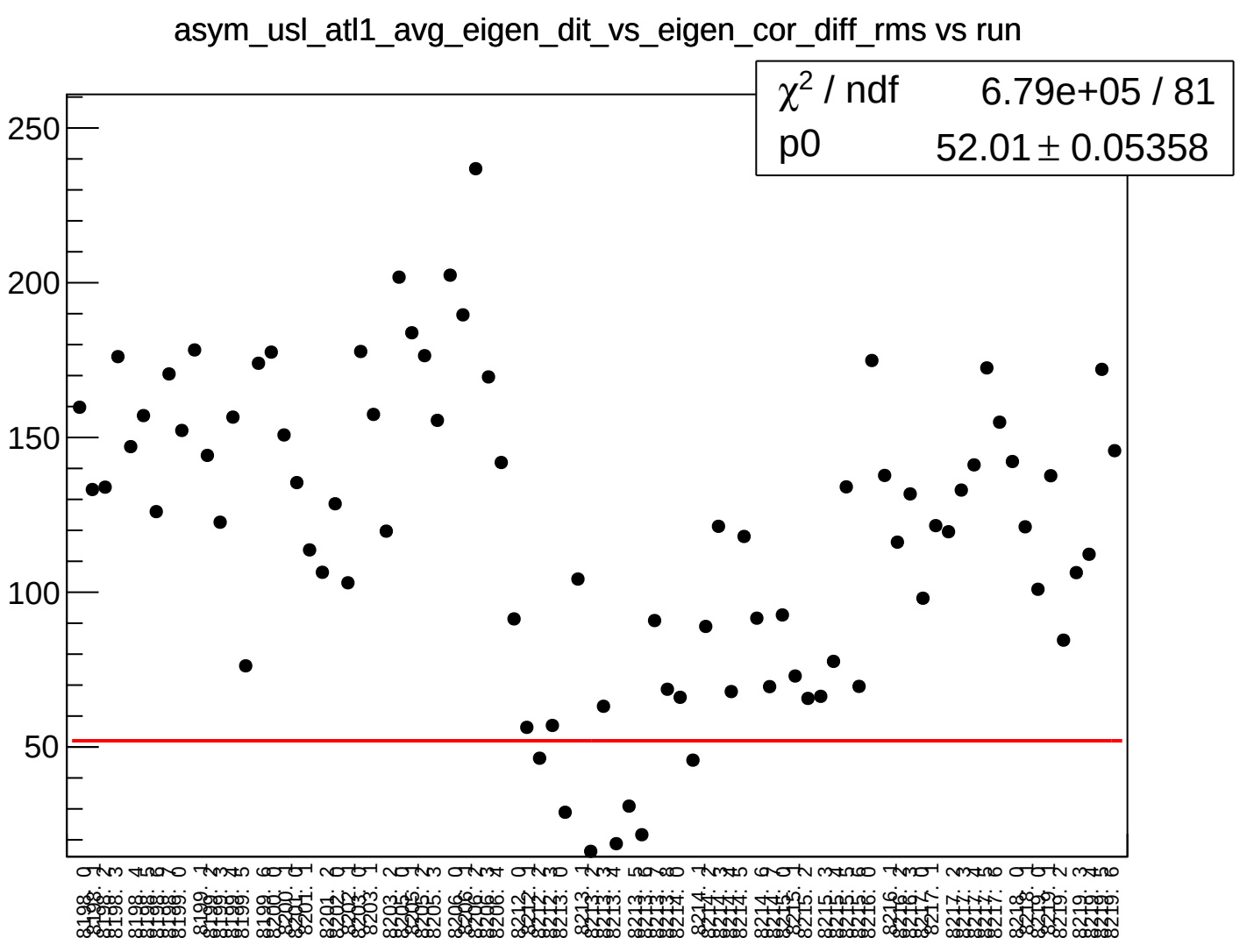

pull1D
Entries 82
Mean 0.04147
Std Dev 1.047

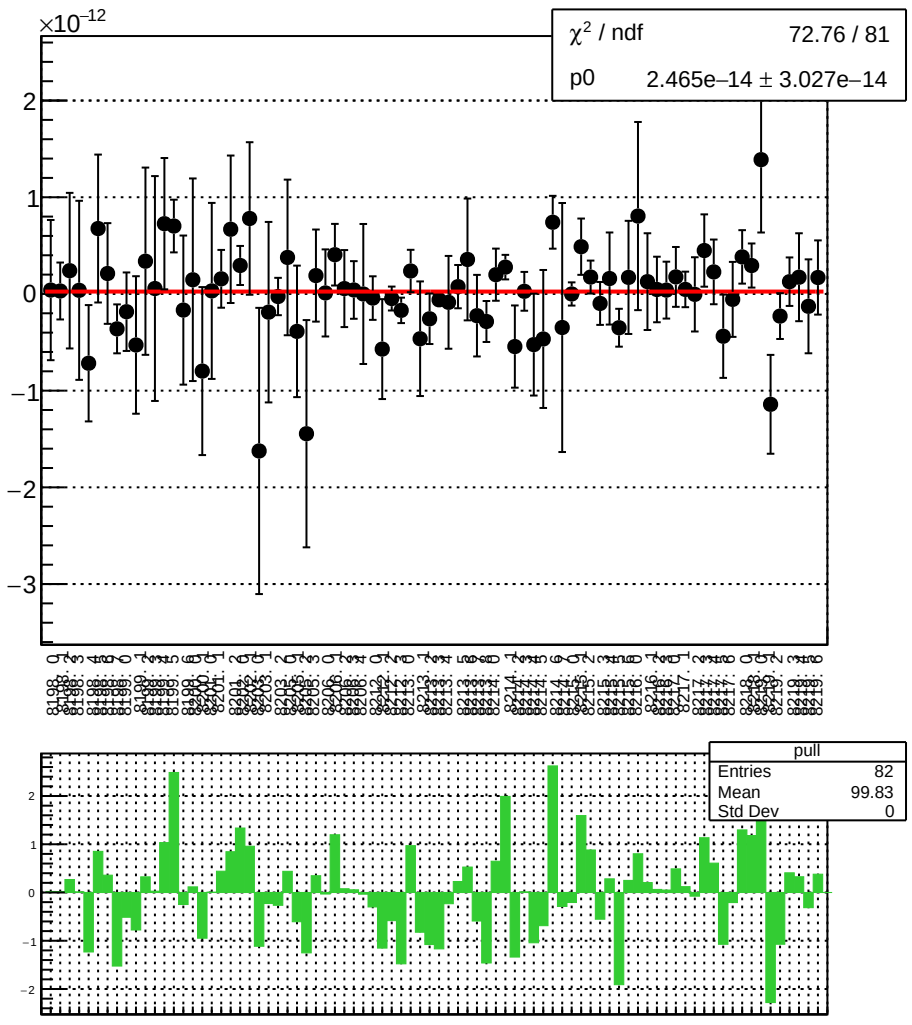

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 6.36e+04 / 81
p0 0.0002031 ± 1.628e−07
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16

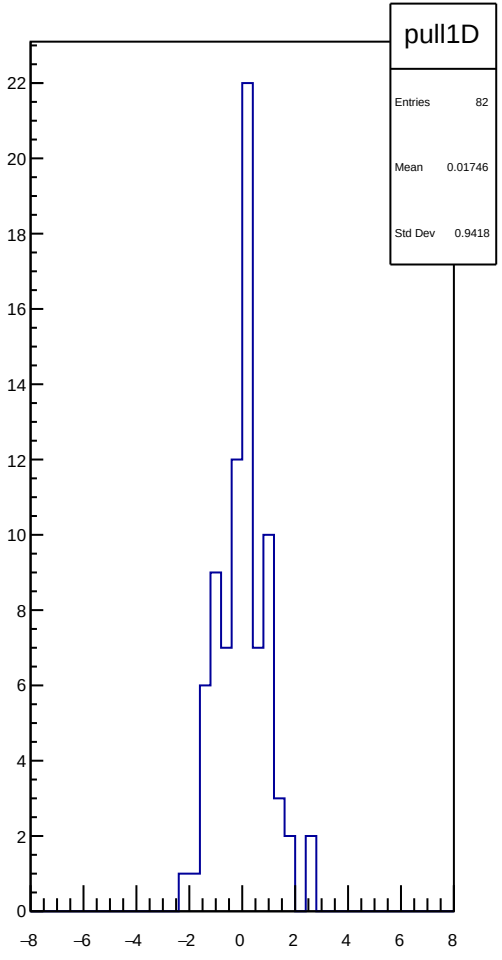

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.85 / 81
p0 0.04331 ± 0.07577
pull
Entries 82
Mean 18.56
Std Dev 36.39
pull1D
Entries 82
Mean −0.03005
Std Dev 1.029

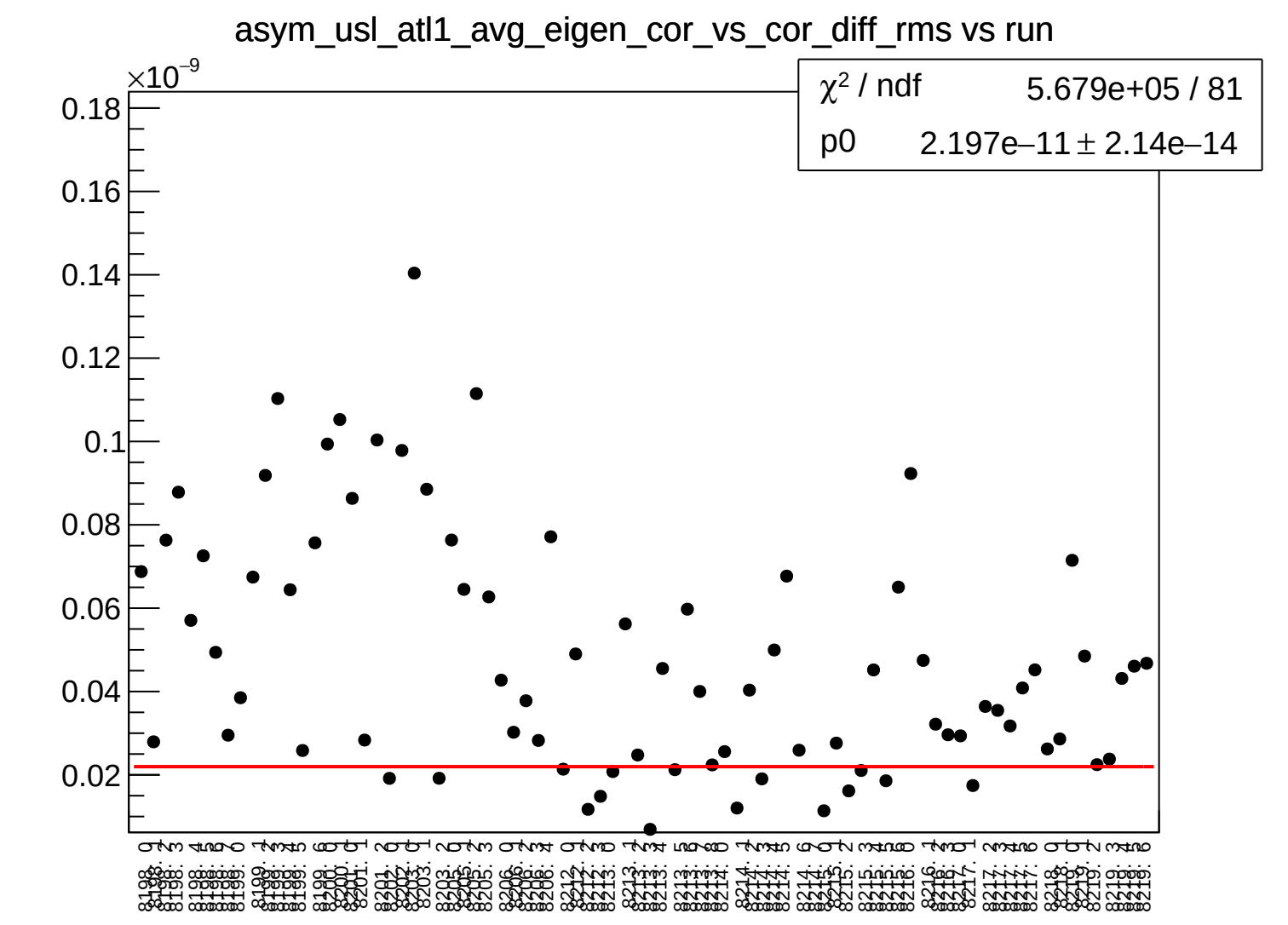

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.79e+05 / 81
p0 52.01 ± 0.05358
250
200
150
100
50

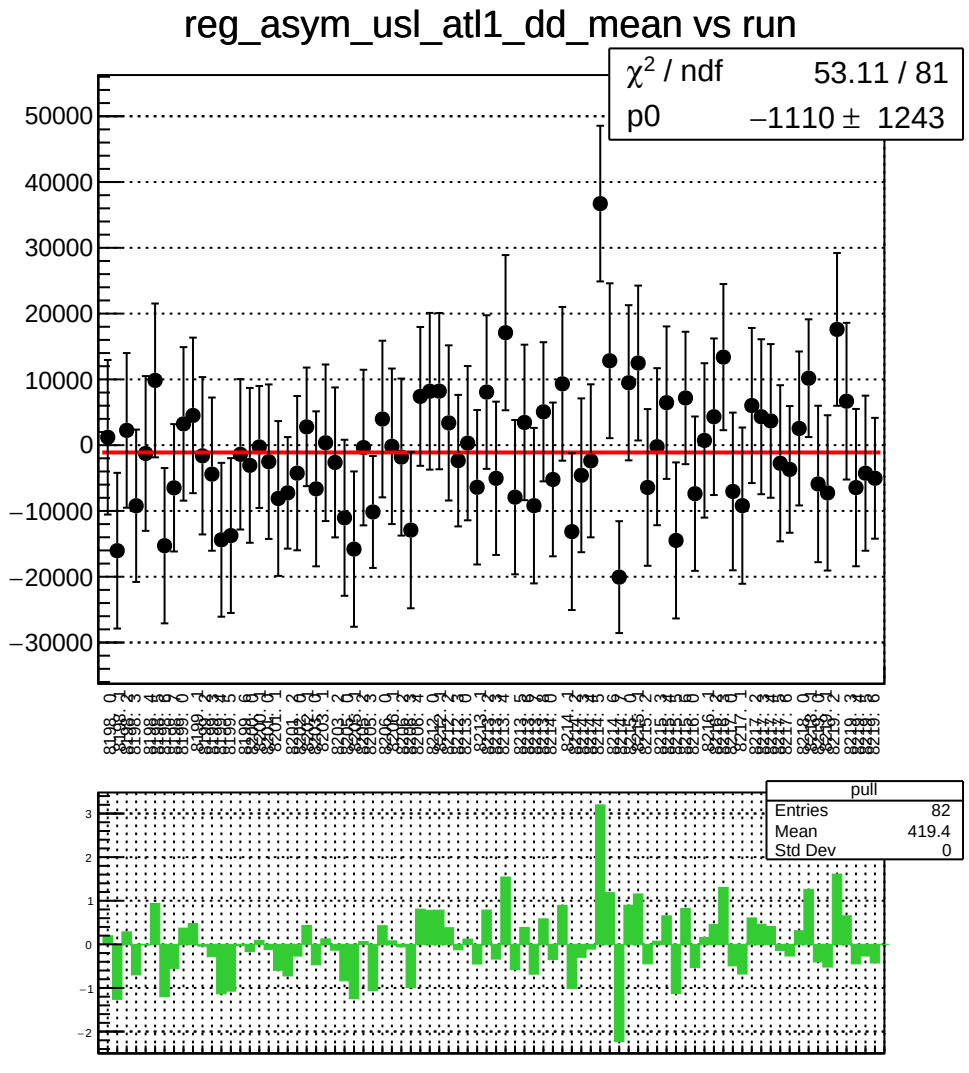

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.85 / 81
p0 0.04331 ± 0.07577
pull
Entries 82
Mean 18.56
Std Dev 36.39
pull1D
Entries 82
Mean −0.03005
Std Dev 1.029

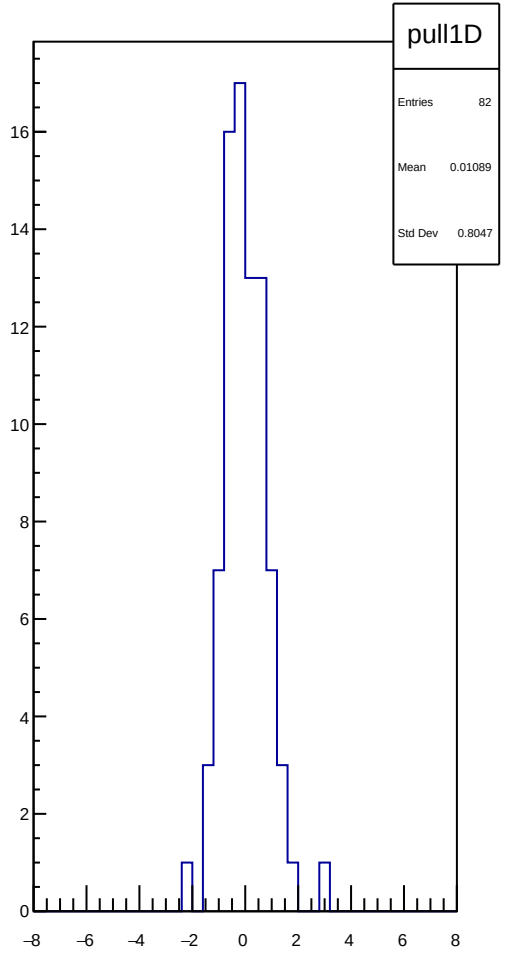

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.79e+05 / 81
p0 52.01 ± 0.05358
250
200
150
100
50

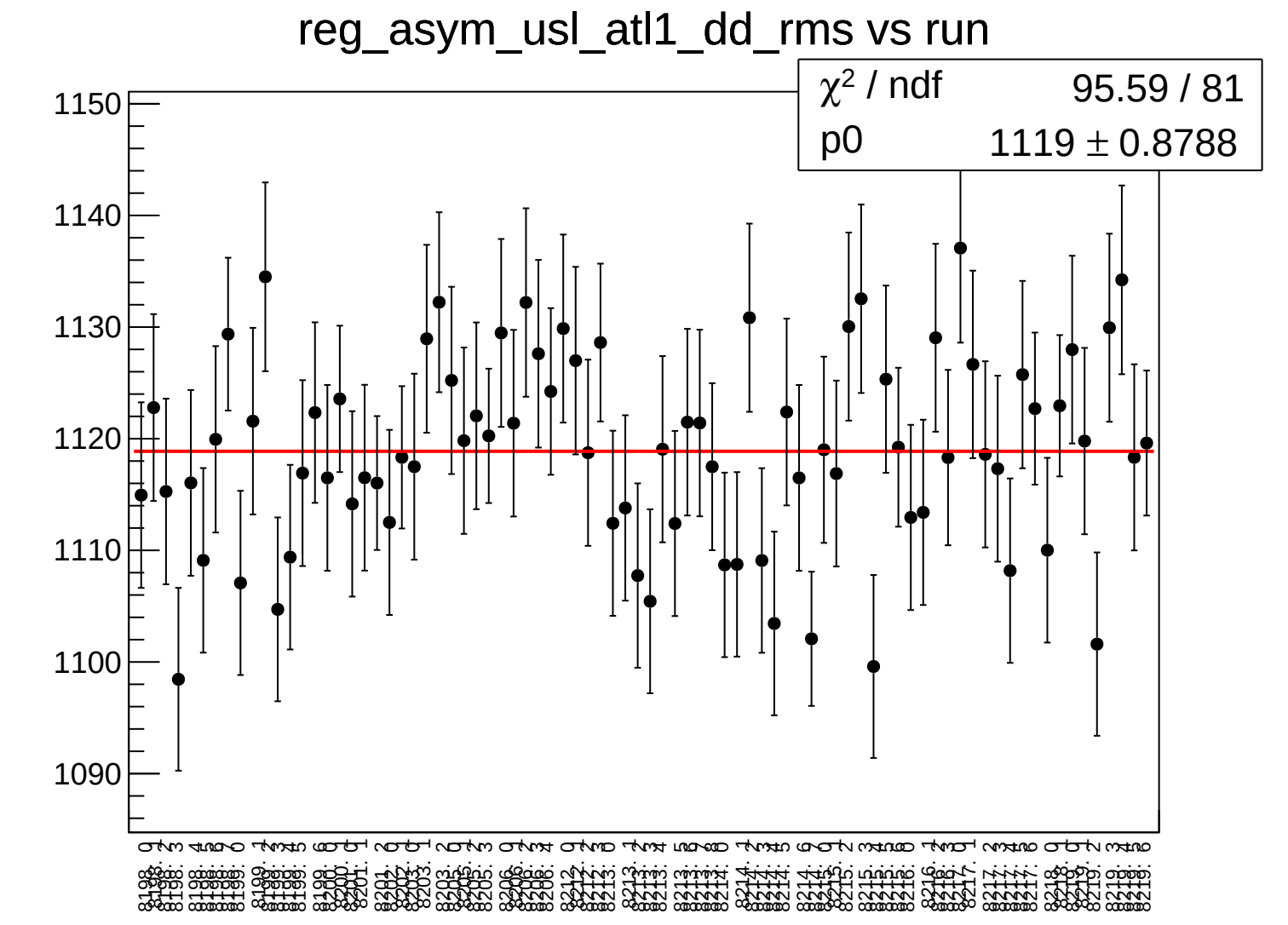

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.76 / 81
p0 2.465e−14 ± 3.027e−14
pull
Entries 82
Mean 99.83
Std Dev 0

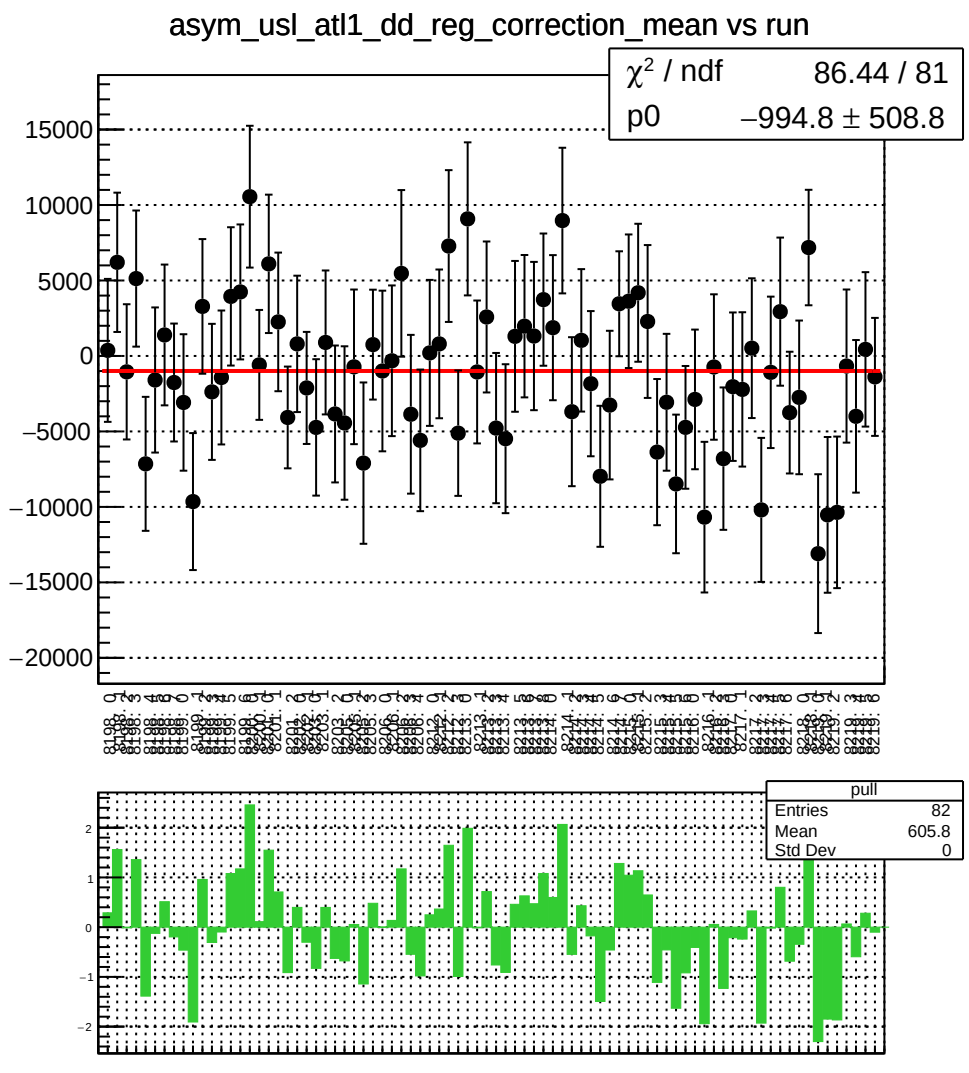

pull1D
Entries 82
Mean 0.01746
Std Dev 0.9418

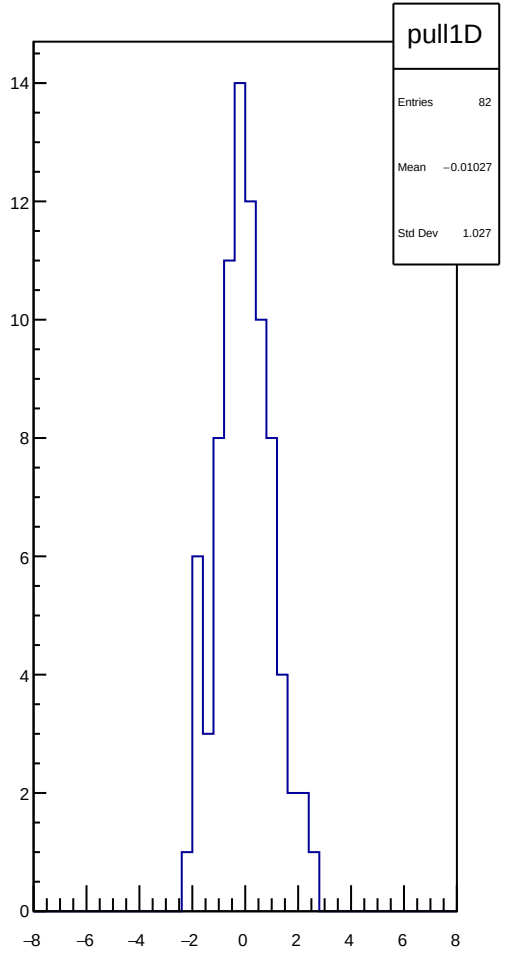

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.679e+05 / 81
p0 2.197e−11 ± 2.14e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

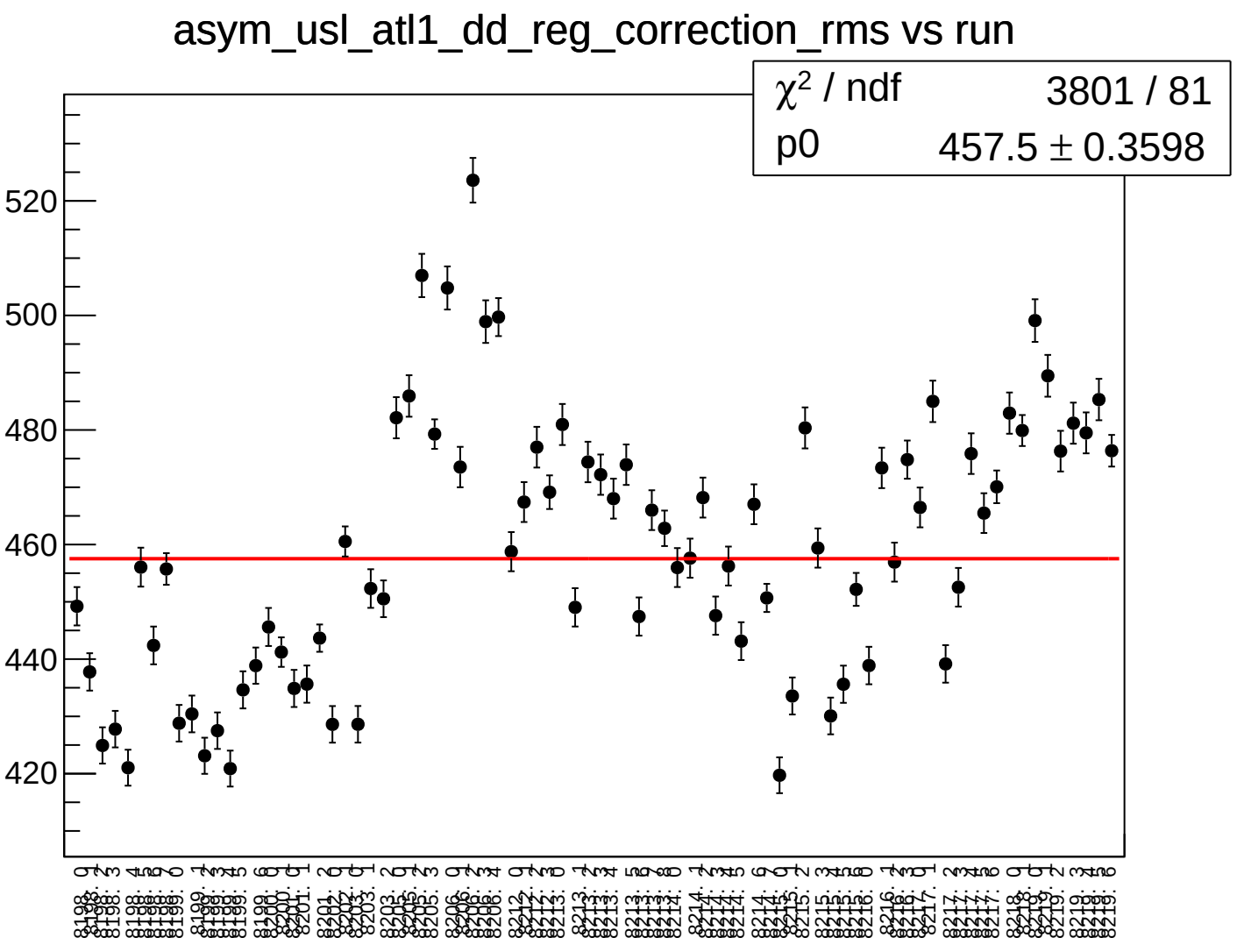

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 53.11 / 81
p0 −1110 ± 1243
pull
Entries 82
Mean 419.4
Std Dev 0

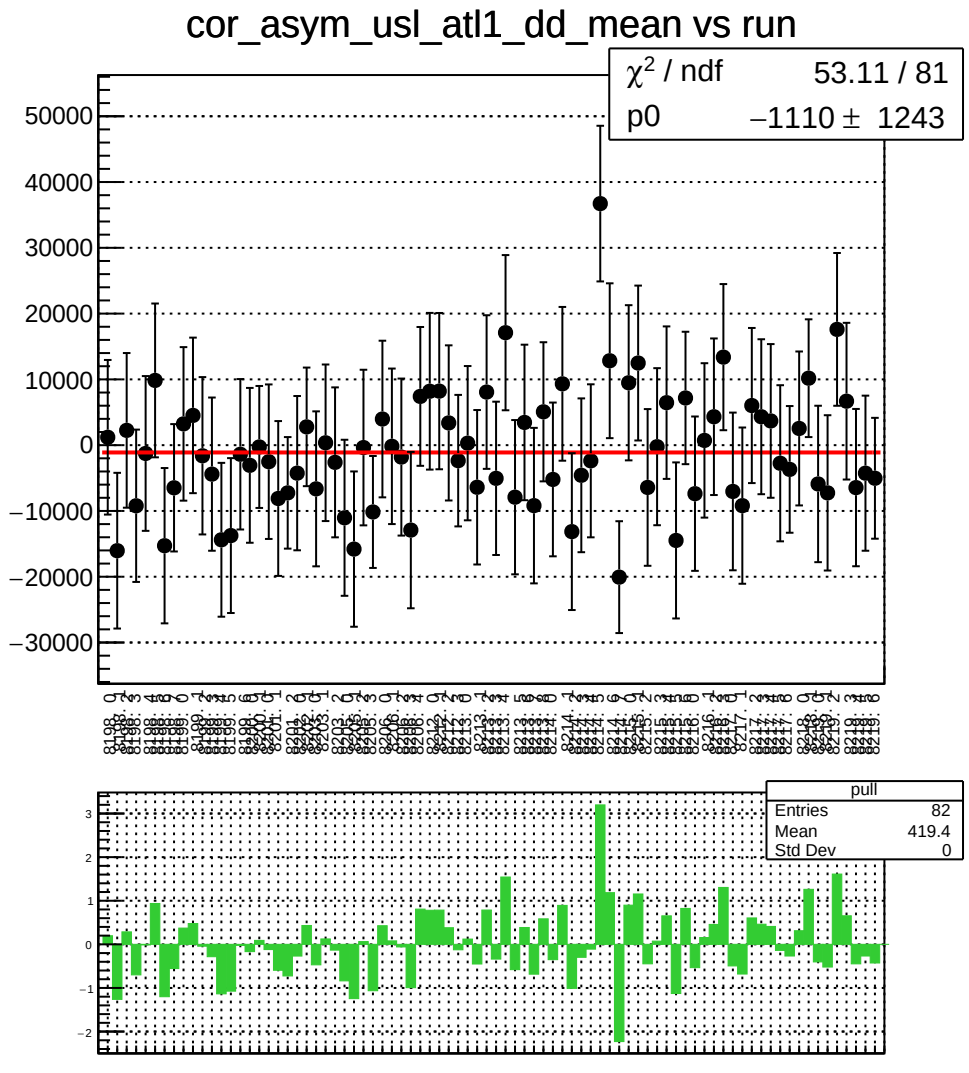

pull1D
Entries 82
Mean 0.01089
Std Dev 0.8047

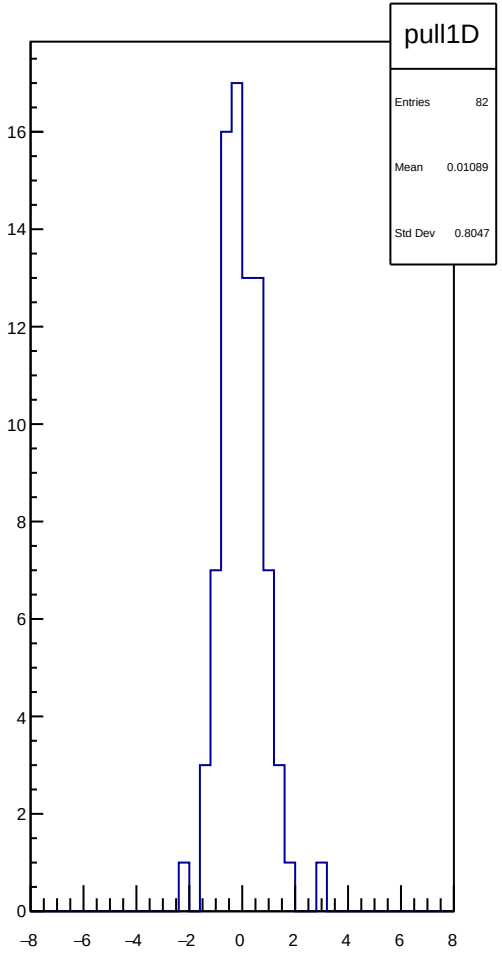

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 95.59 / 81
p0 1119 ± 0.8788
1150
1140
1130
1120
1110
1100
1090

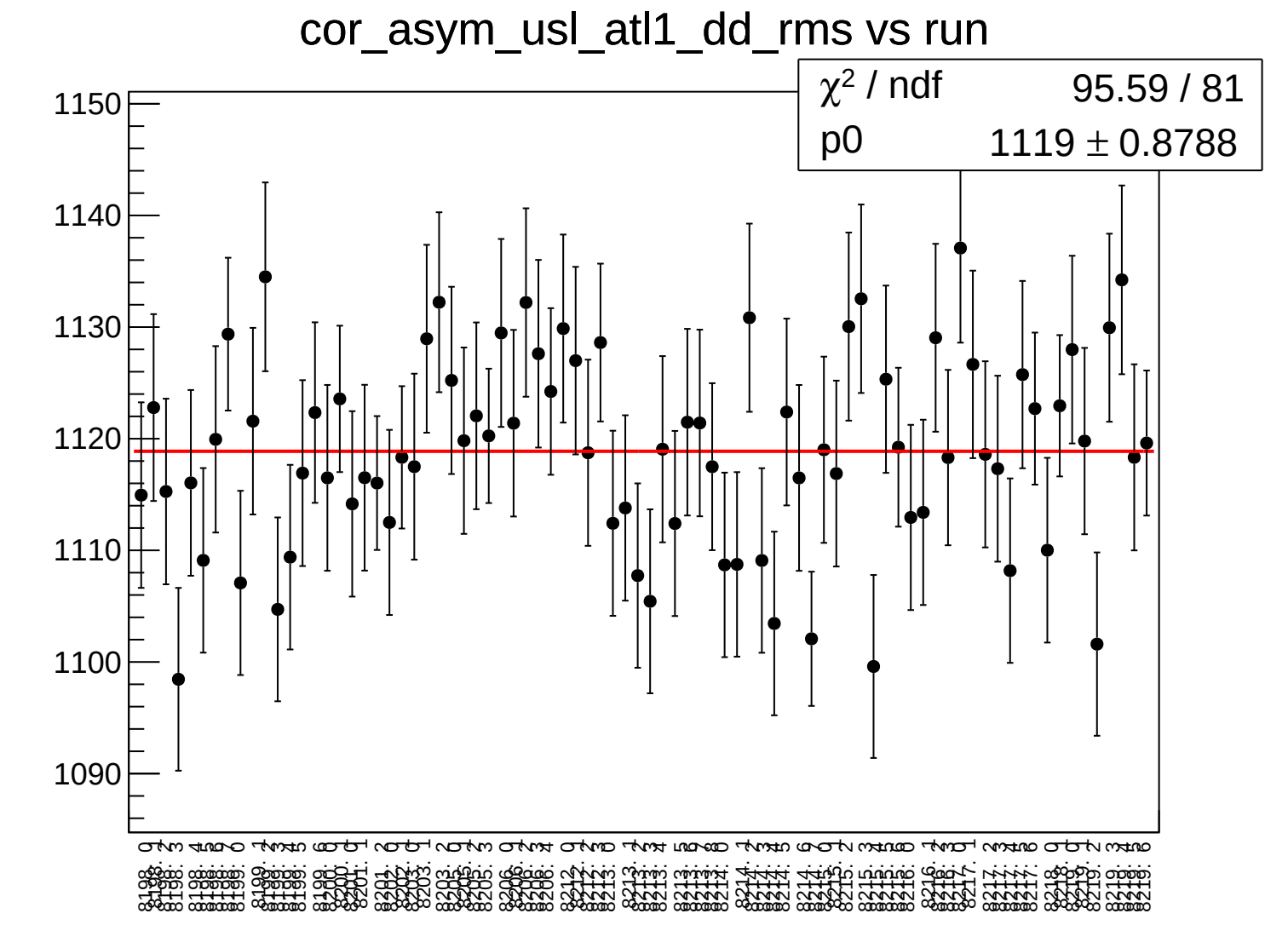

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 86.44 / 81
p0 −994.8 ± 508.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean 605.8
Std Dev 0
2
1
0
−1
−2

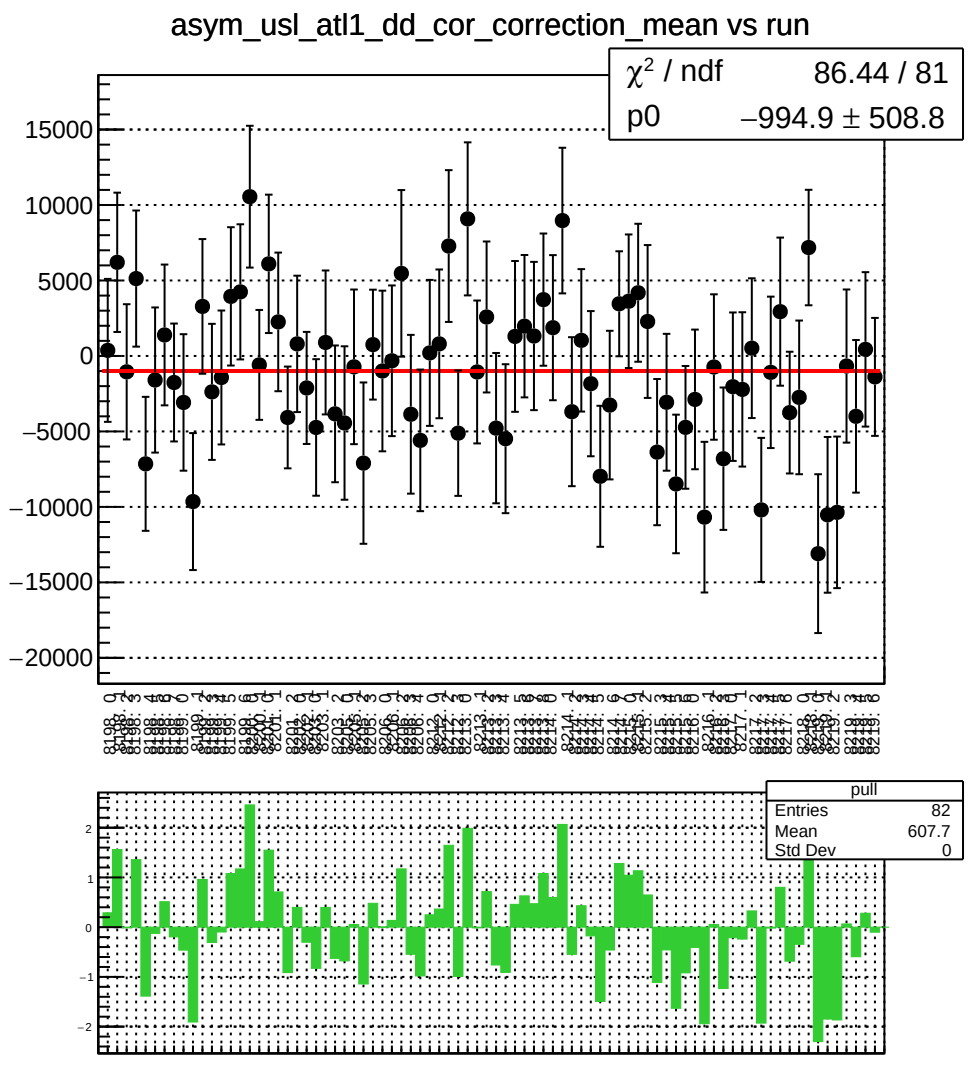

pull1D
Entries 82
Mean −0.01027
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

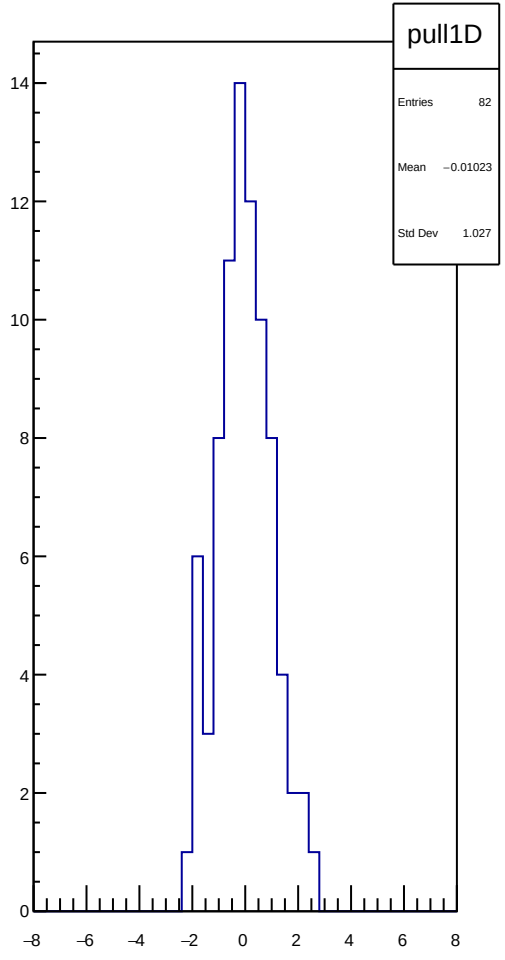

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 3801 / 81
p0 457.5 ± 0.3598
520
500
480
460
440
420

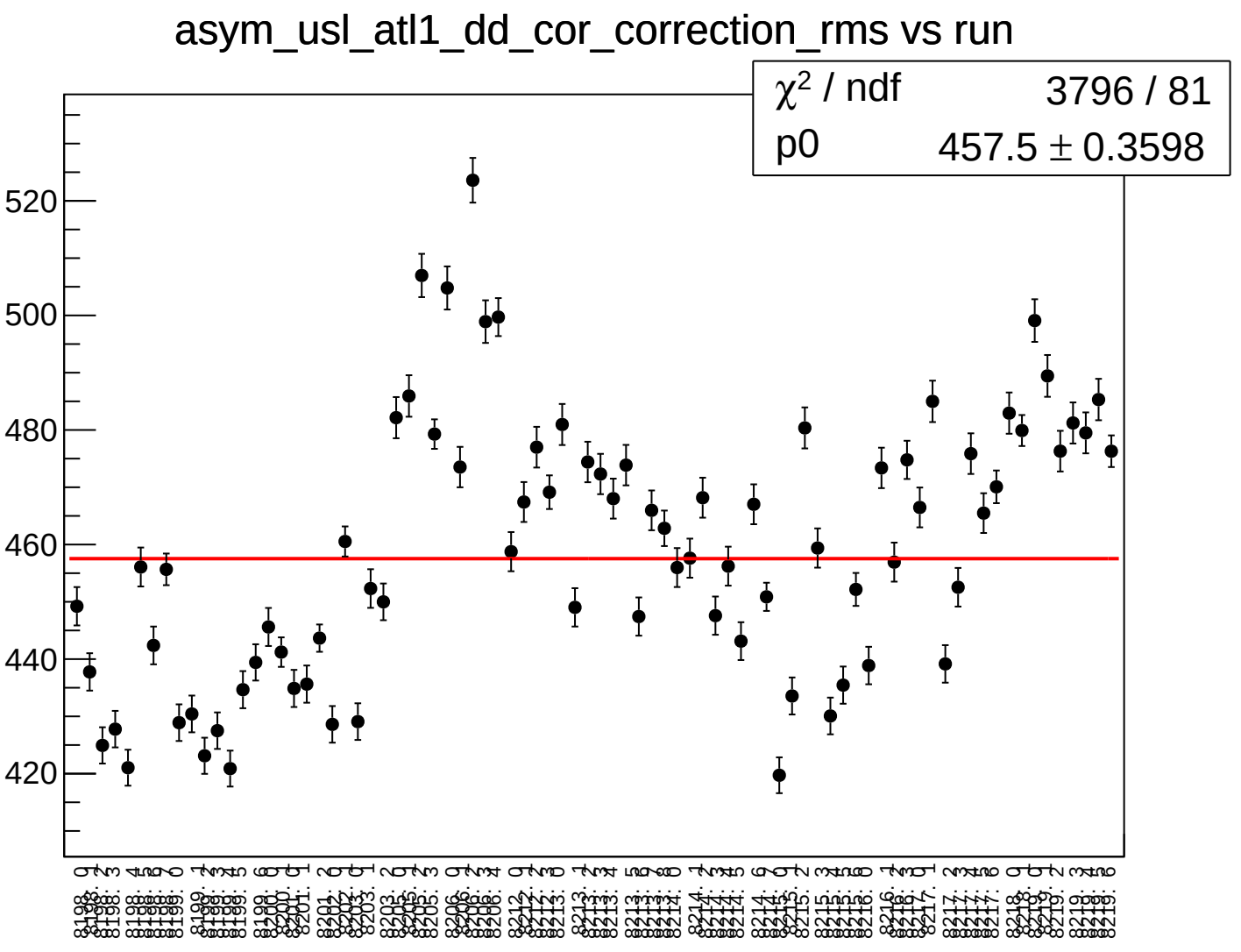

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 53.11 / 81
p0 −1110 ± 1243
pull
Entries 82
Mean 419.4
Std Dev 0

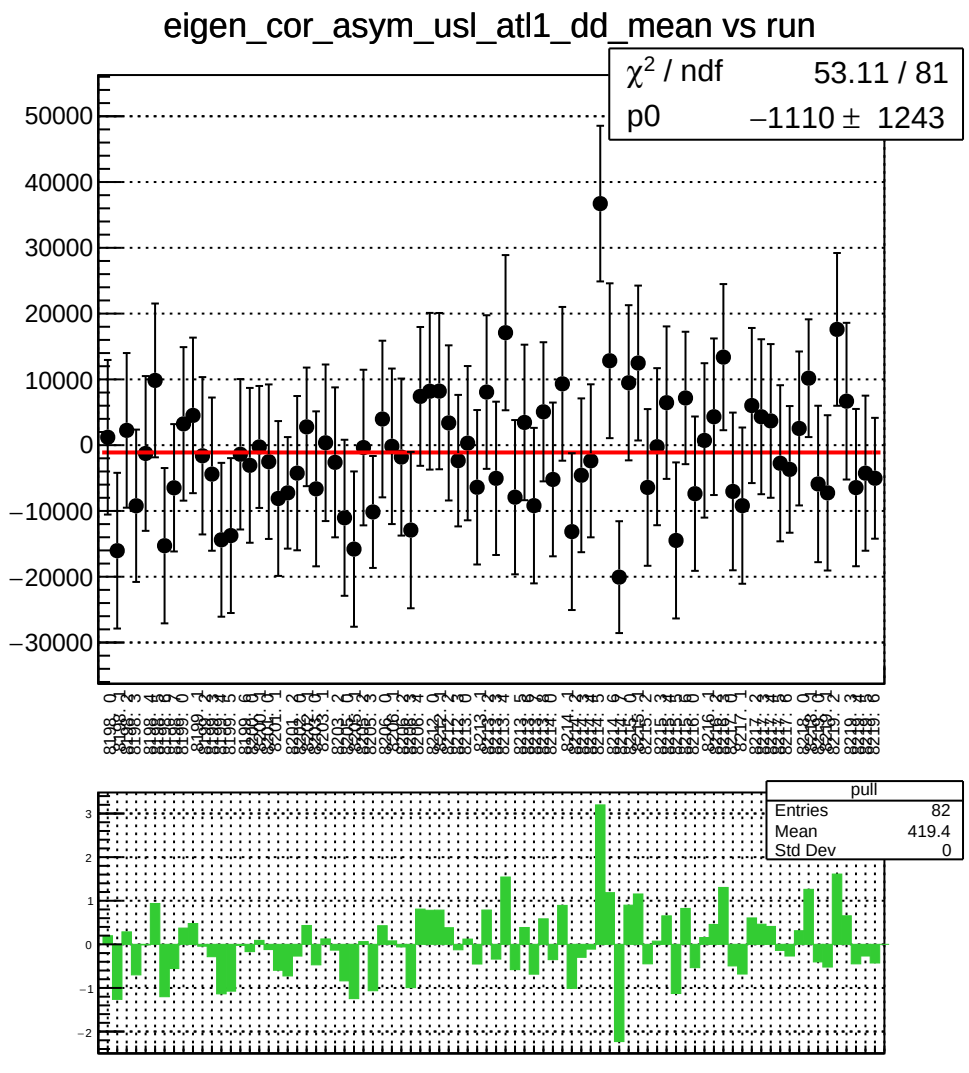

pull1D
Entries 82
Mean 0.01089
Std Dev 0.8047

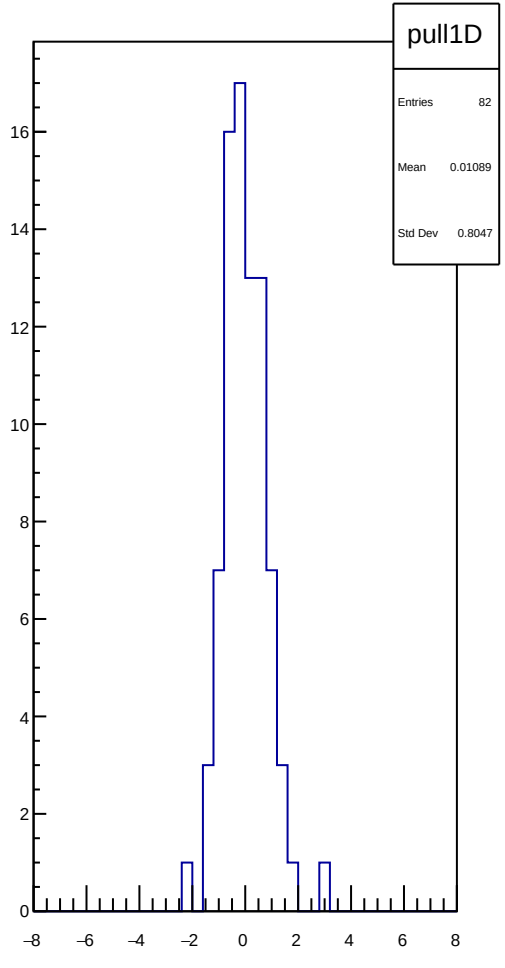

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 95.59 / 81
p0 1119 ± 0.8788
1150
1140
1130
1120
1110
1100
1090

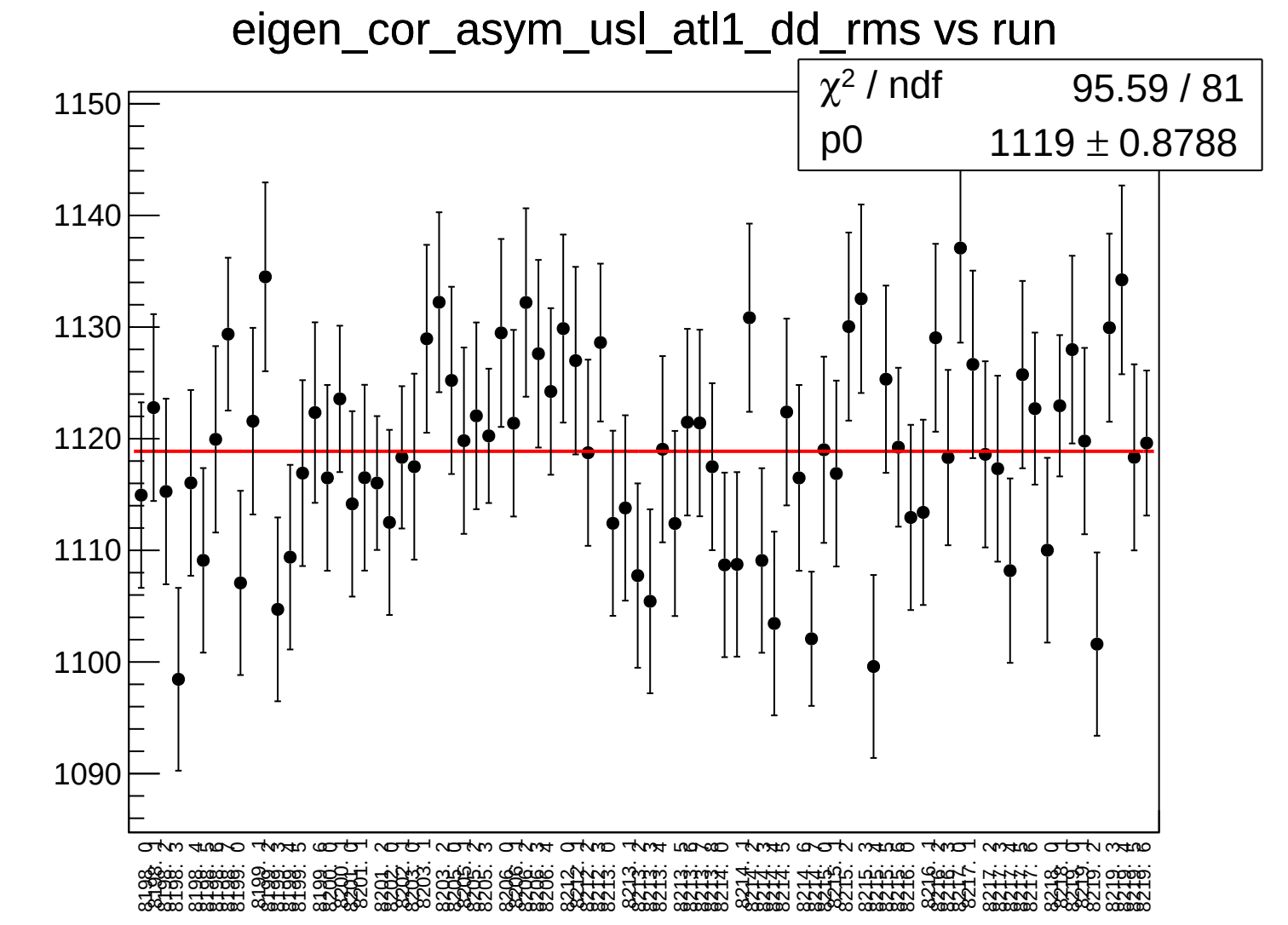

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 86.44 / 81
p0 −994.9 ± 508.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean 607.7
Std Dev 0
2
1
0
−1
−2

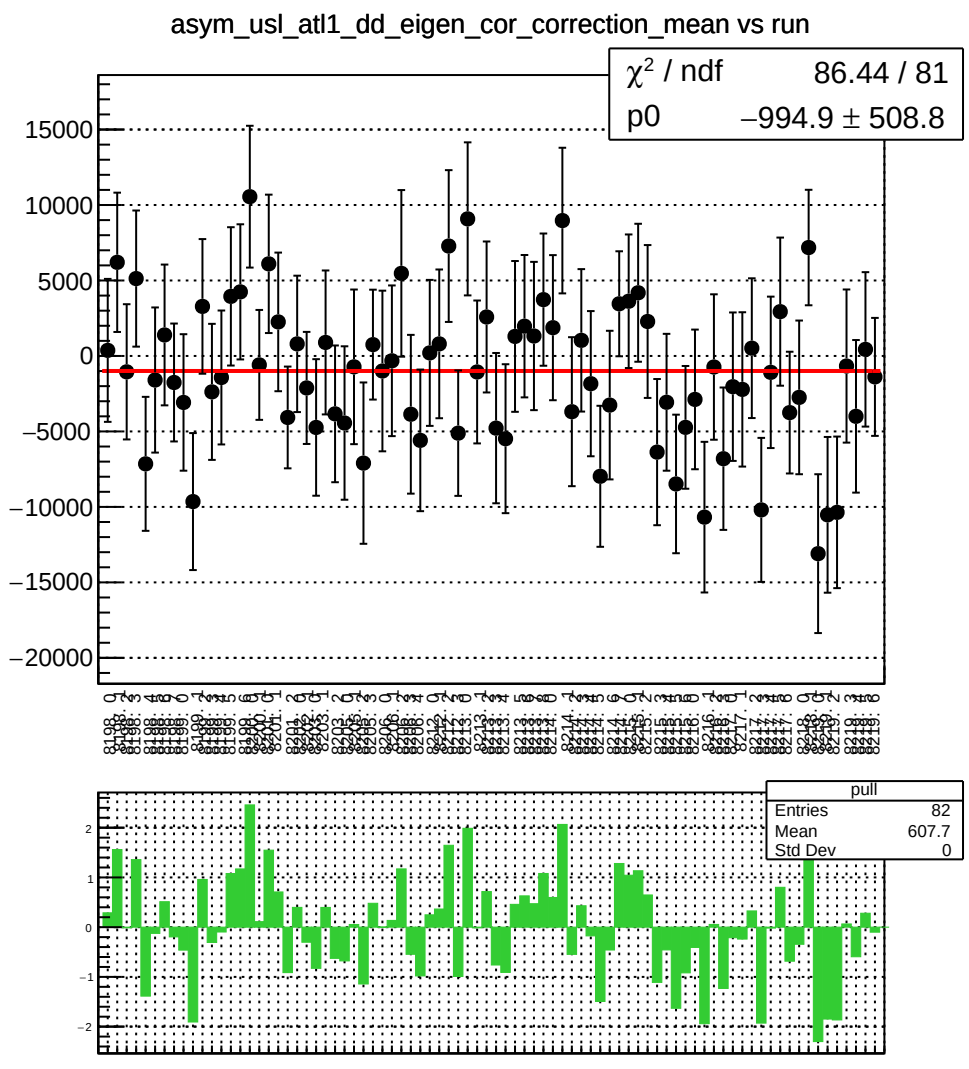

pull1D
Entries 82
Mean −0.01023
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

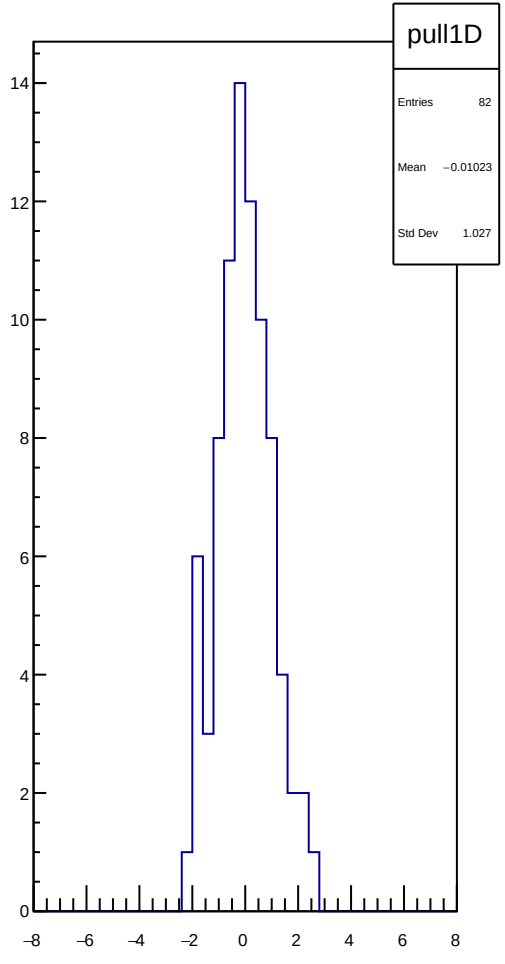

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 3796 / 81
p0 457.5 ± 0.3598
520
500
480
460
440
420

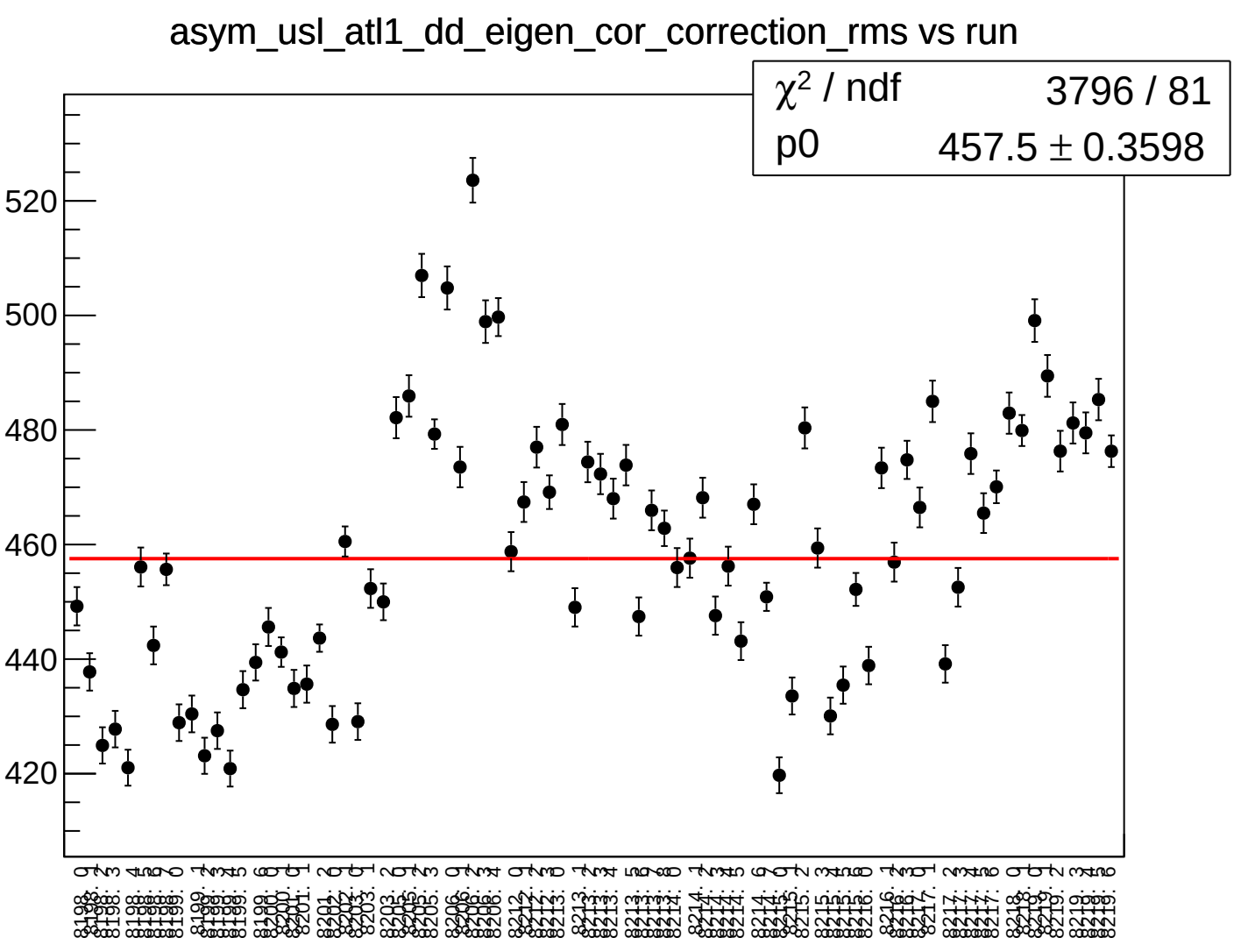

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 53.11 / 81
p0 −1110 ± 1243
pull
Entries 82
Mean 419.4
Std Dev 0

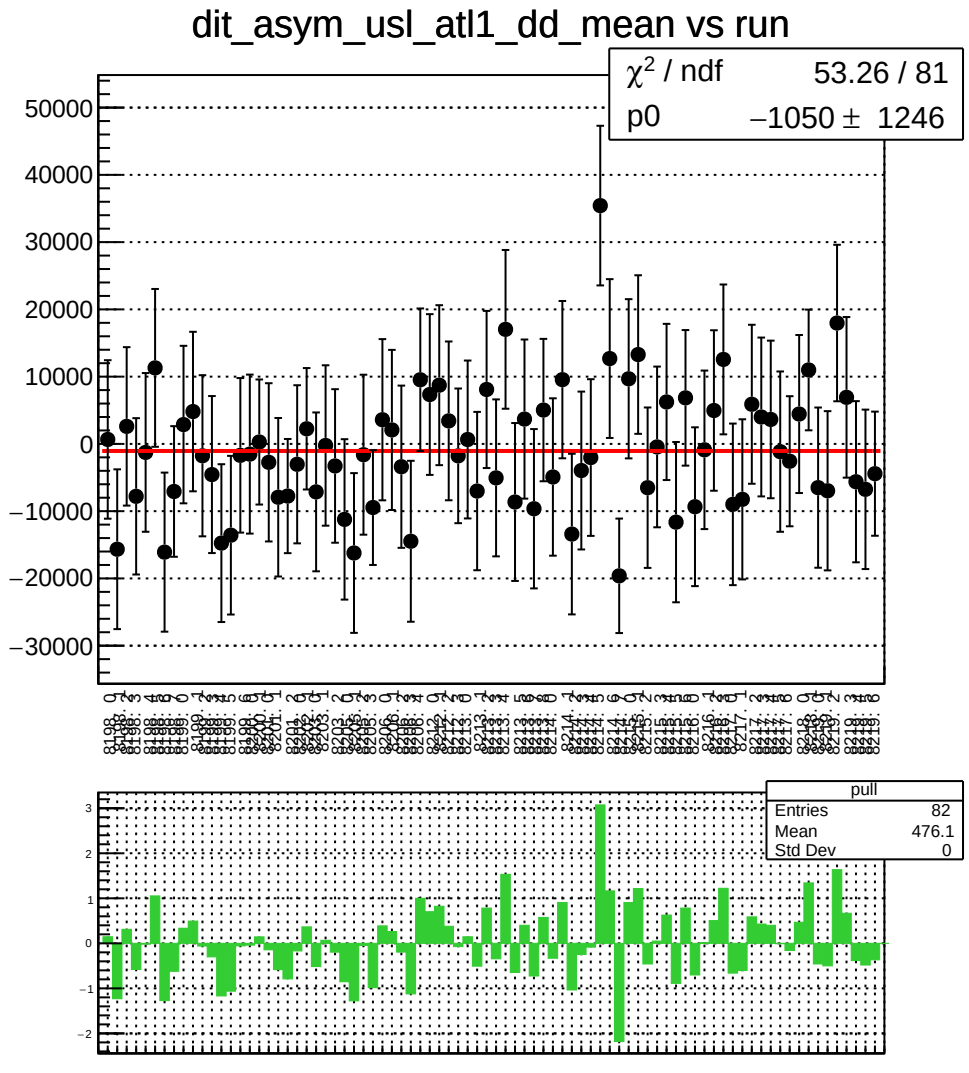

pull1D
Entries 82
Mean 0.01089
Std Dev 0.8047

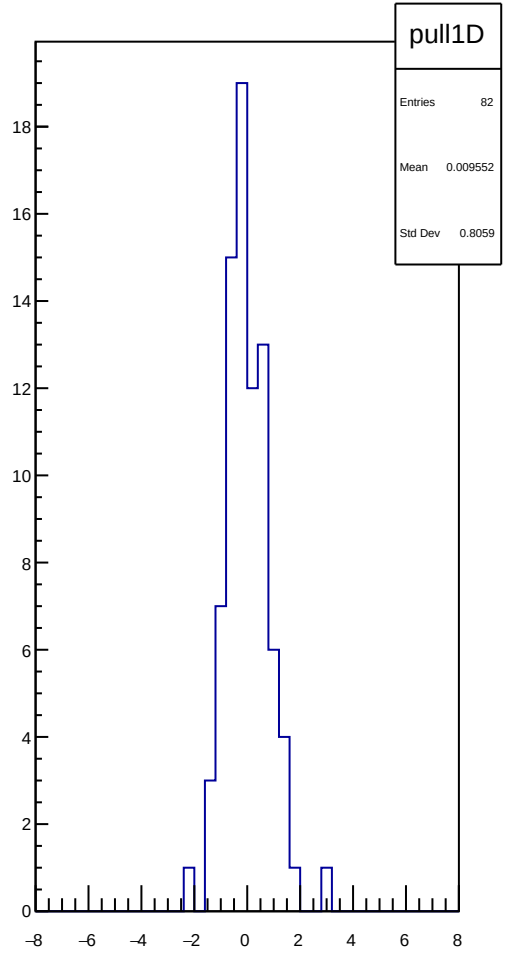

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 95.59 / 81
p0 1119 ± 0.8788
1150
1140
1130
1120
1110
1100
1090

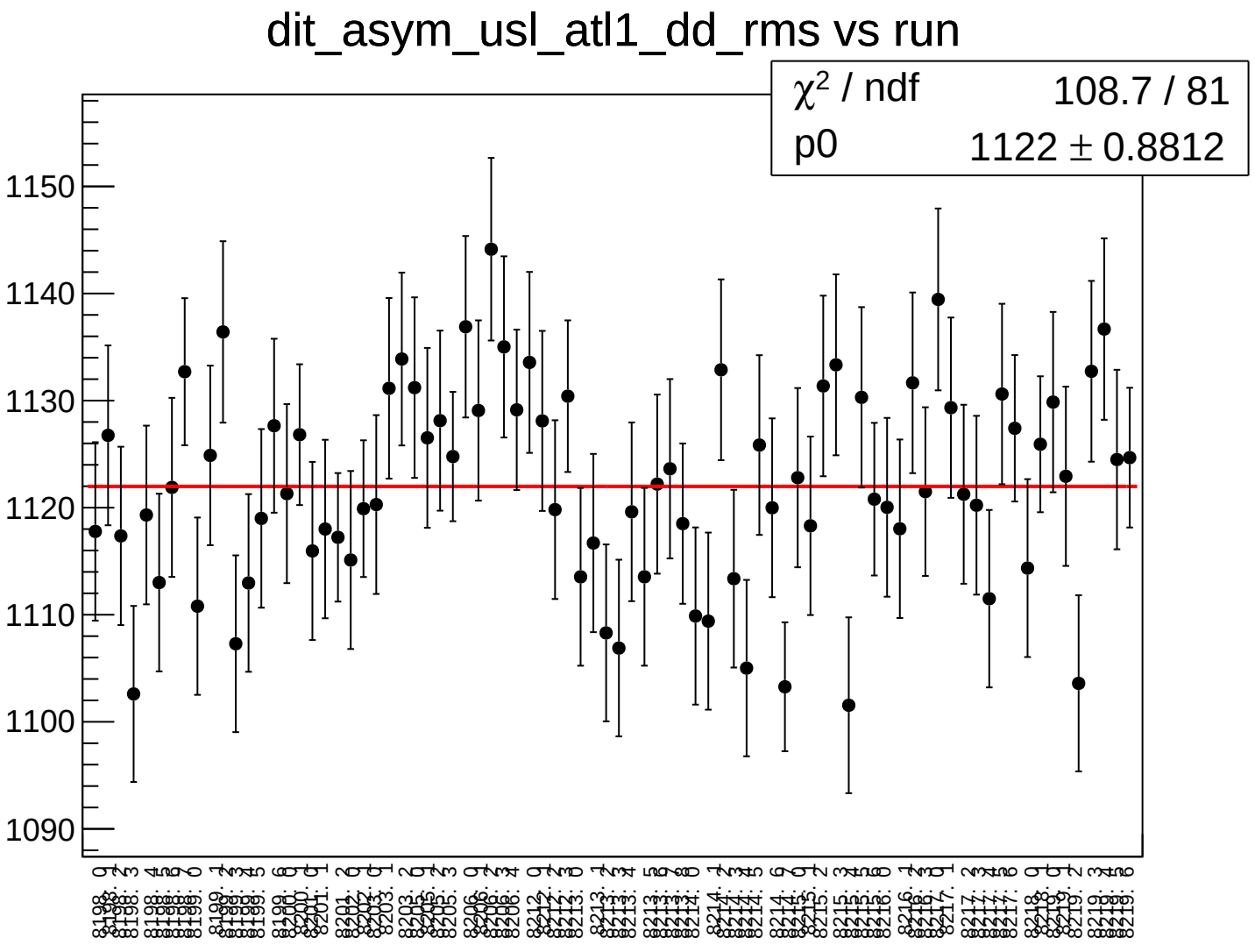

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.44 / 81
p0 −994.9 ± 508.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean 607.7
Std Dev 0
2
1
0
−1
−2

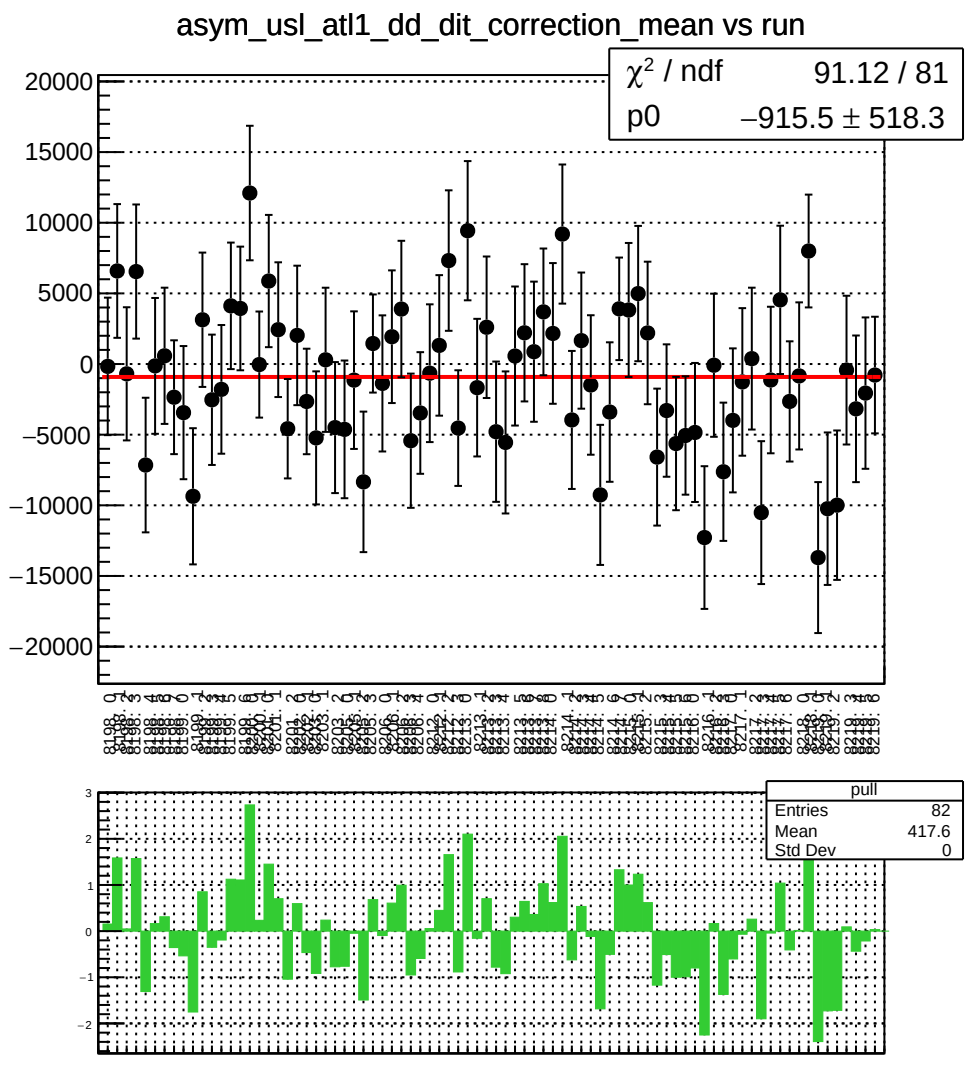

pull1D
Entries 82
Mean −0.01023
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

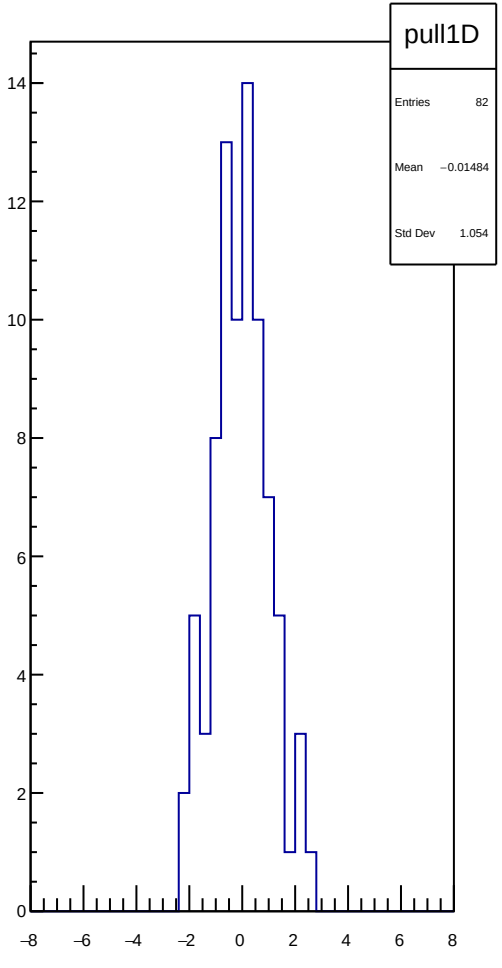

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3796 / 81
p0 457.5 ± 0.3598
520
500
480
460
440
420

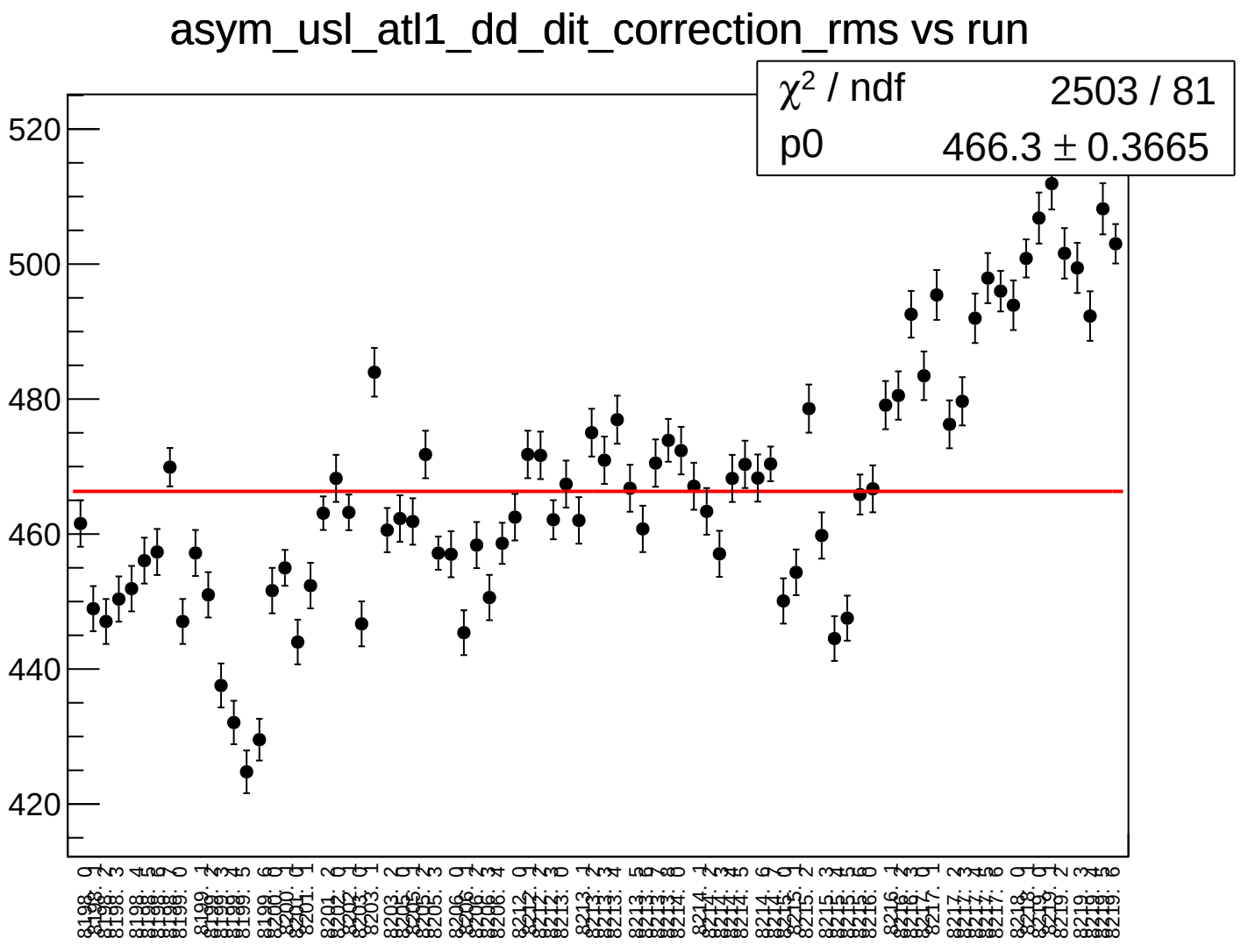

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 53.26 / 81
p0 −1050 ± 1246
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 476.1
Std Dev 0
3
2
1
0
−1
−2

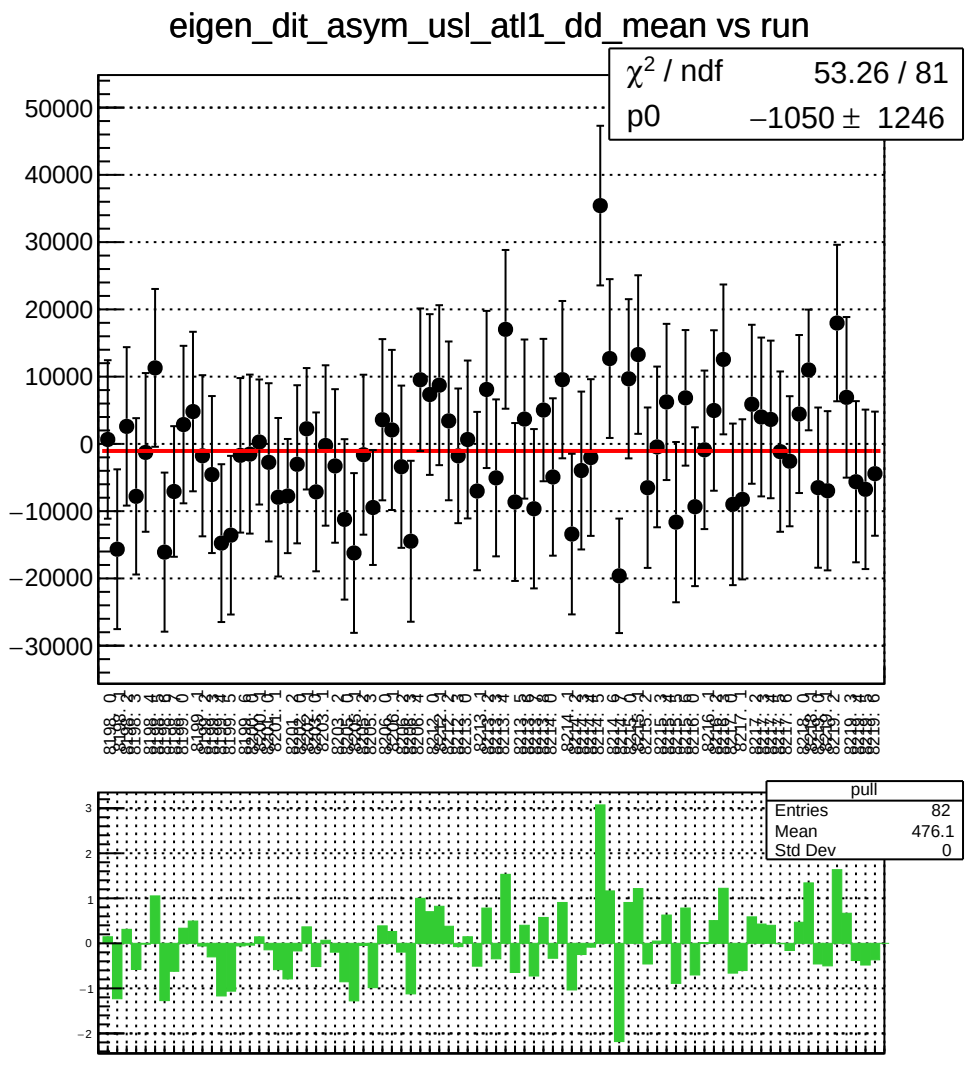

pull1D
Entries 82
Mean 0.009552
Std Dev 0.8059
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

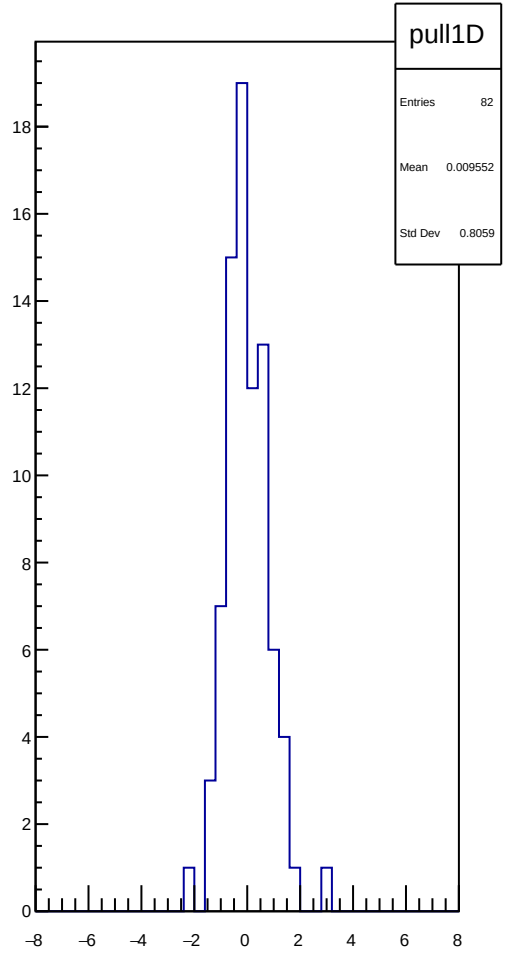

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 108.7 / 81
p0 1122 ± 0.8812
1150
1140
1130
1120
1110
1100
1090

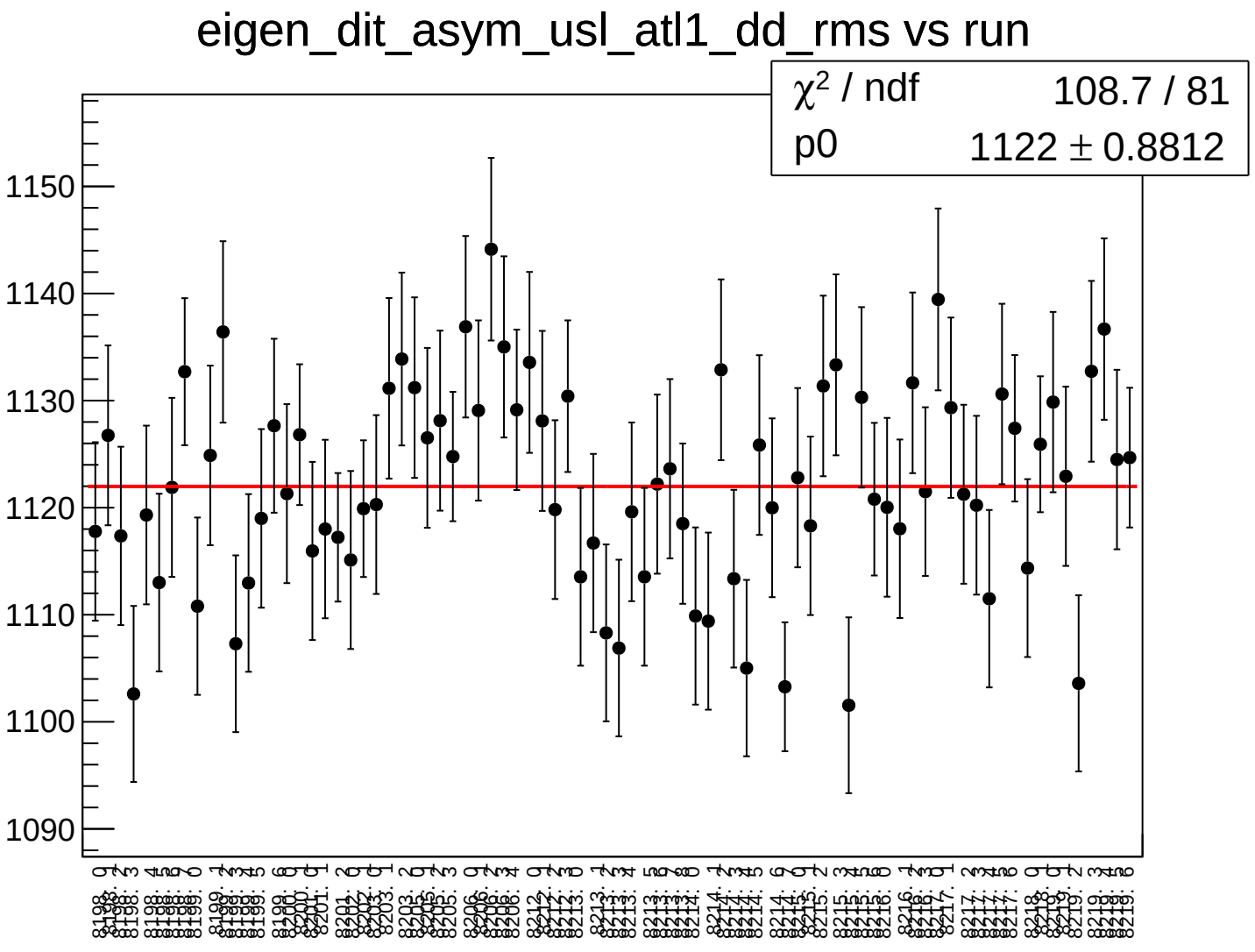

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 91.12 / 81
p0 −915.5 ± 518.3
pull
Entries 82
Mean 417.6
Std Dev 0

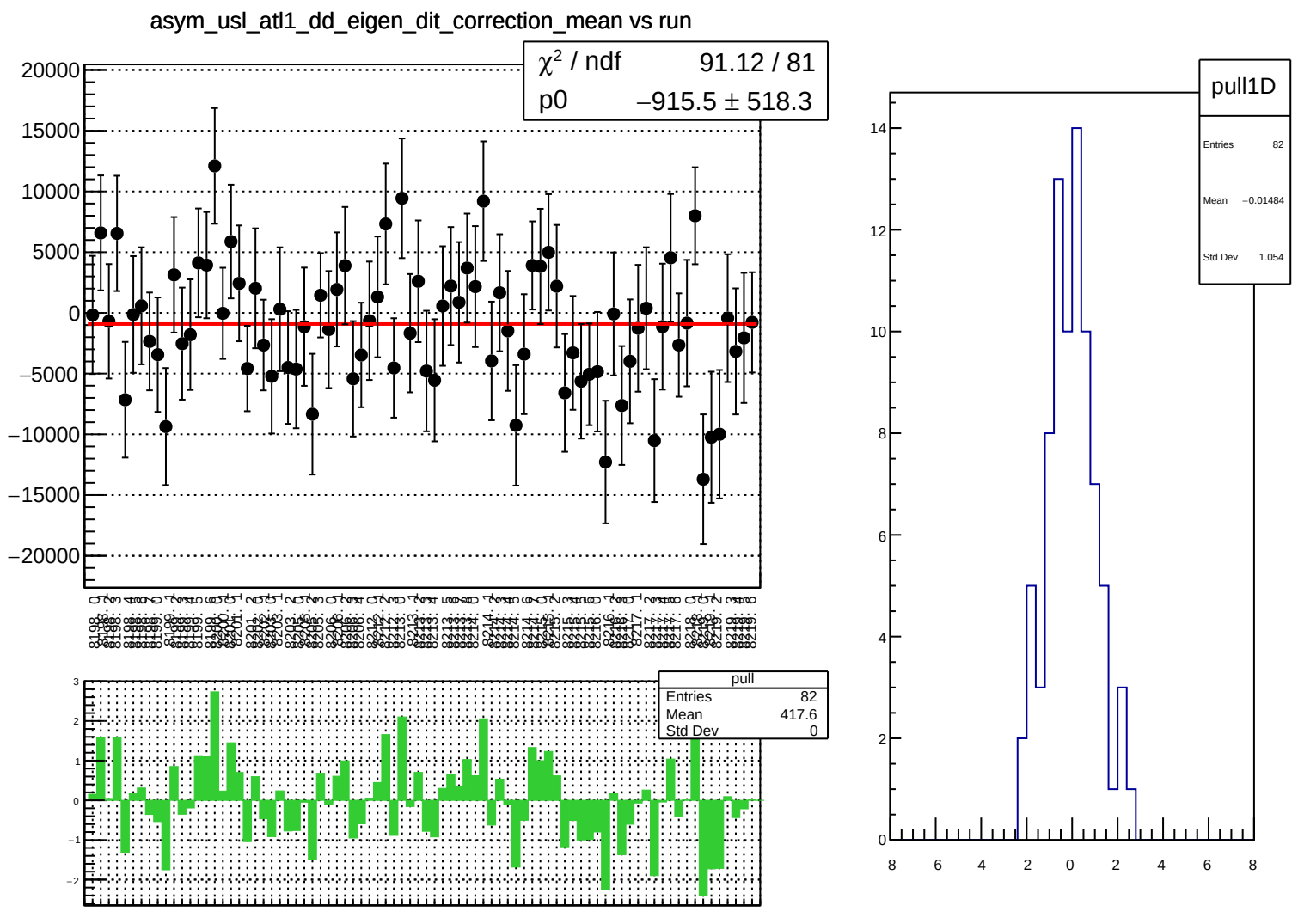

pull1D
Entries 82
Mean −0.01484
Std Dev 1.054

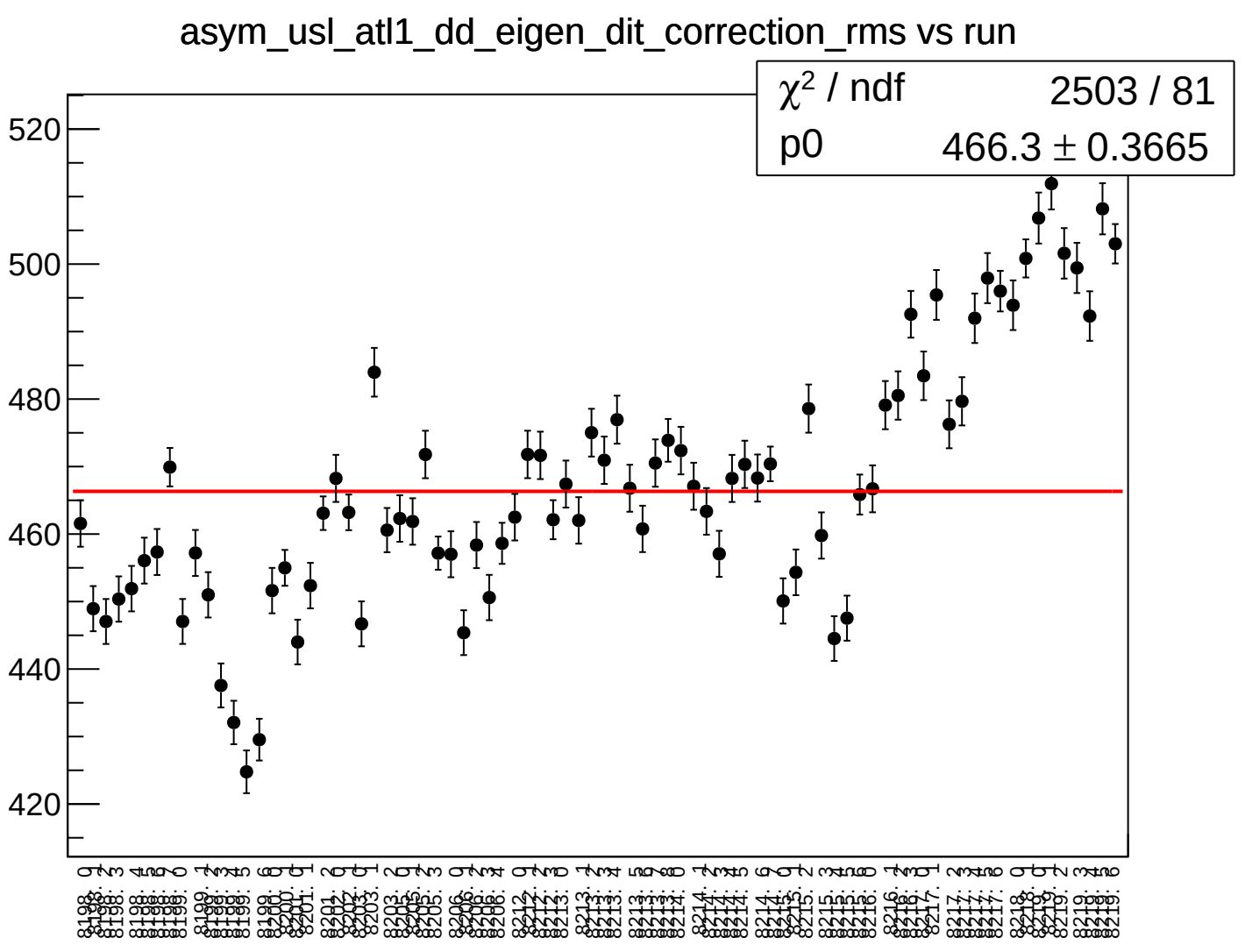

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 2503 / 81
p0 466.3 ± 0.3665
520
500
480
460
440
420

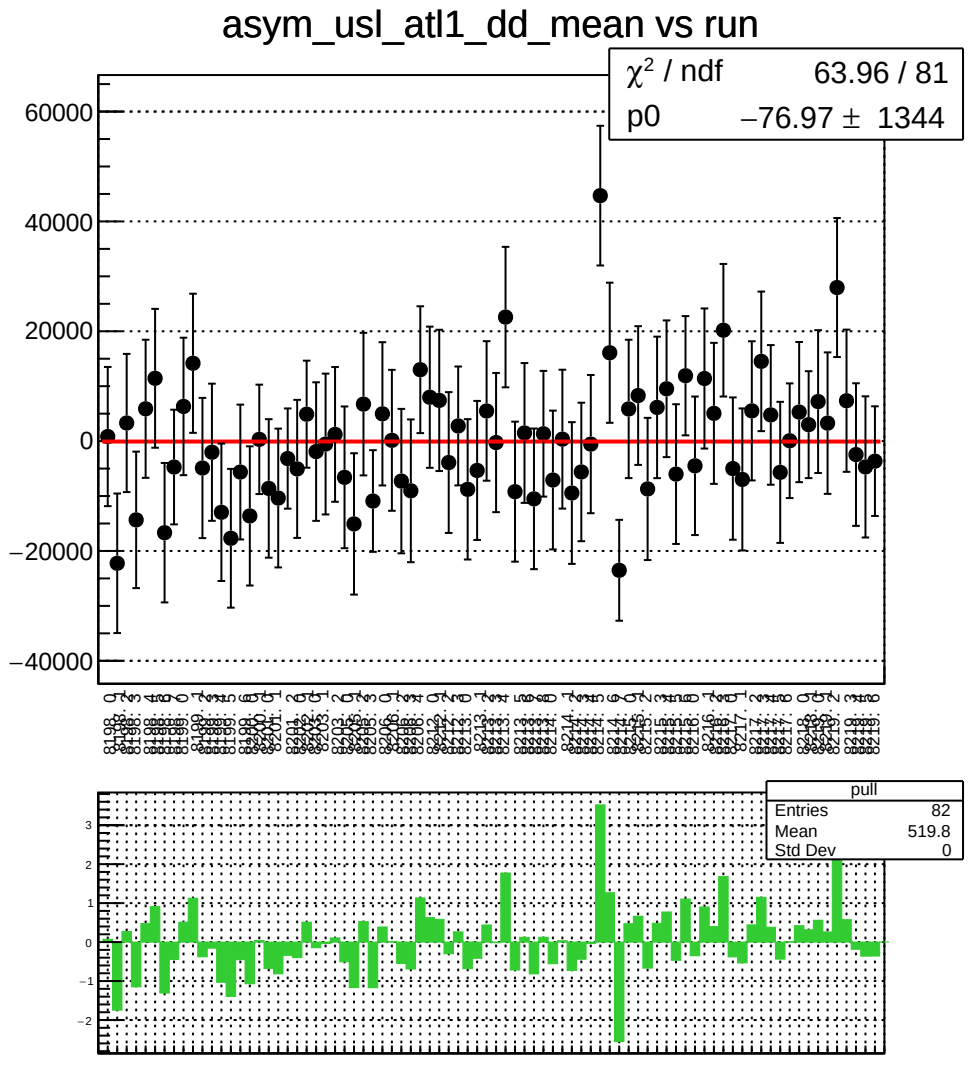

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 53.26 / 81
p0 −1050 ± 1246
pull
Entries 82
Mean 476.1
Std Dev 0

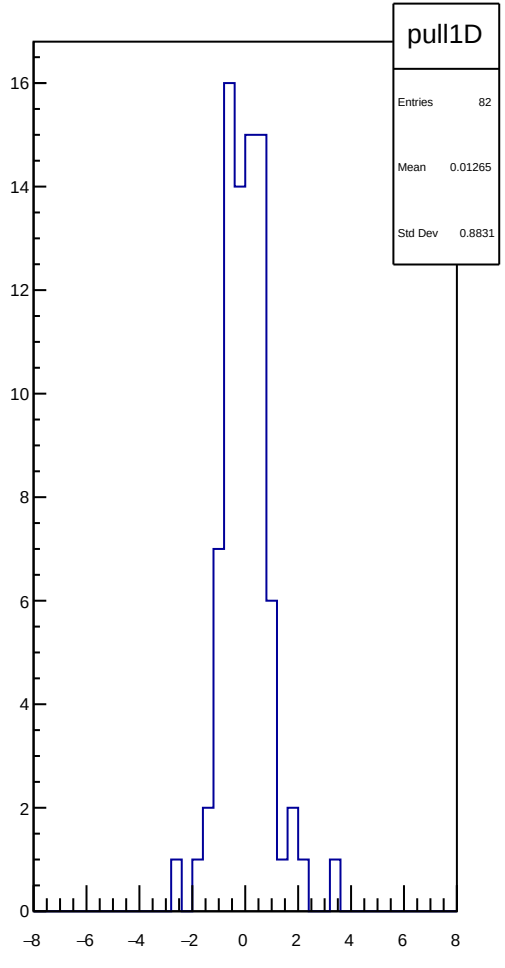

pull1D
Entries 82
Mean 0.009552
Std Dev 0.8059

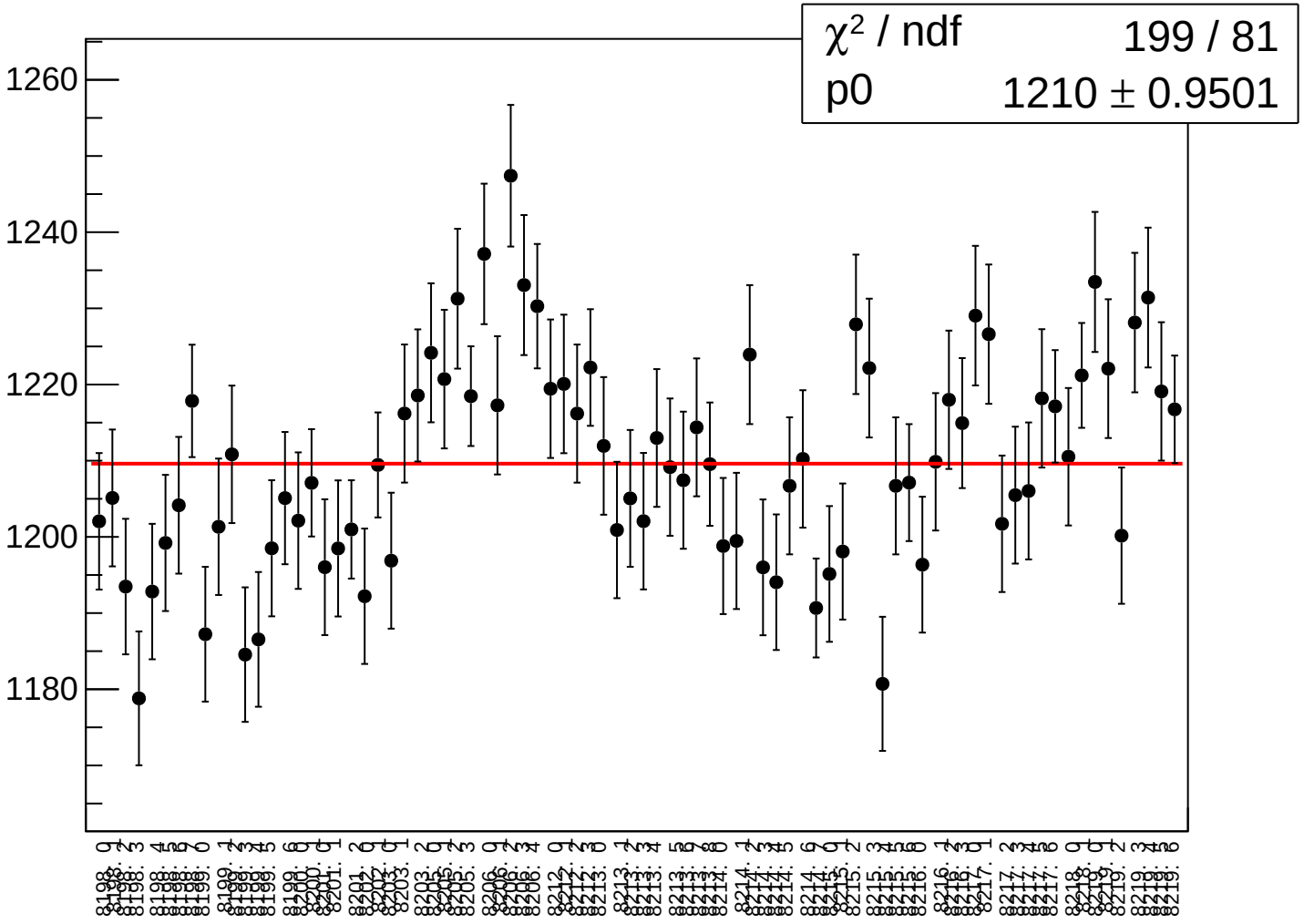

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 108.7 / 81
p0 1122 ± 0.8812
1150
1140
1130
1120
1110
1100
1090

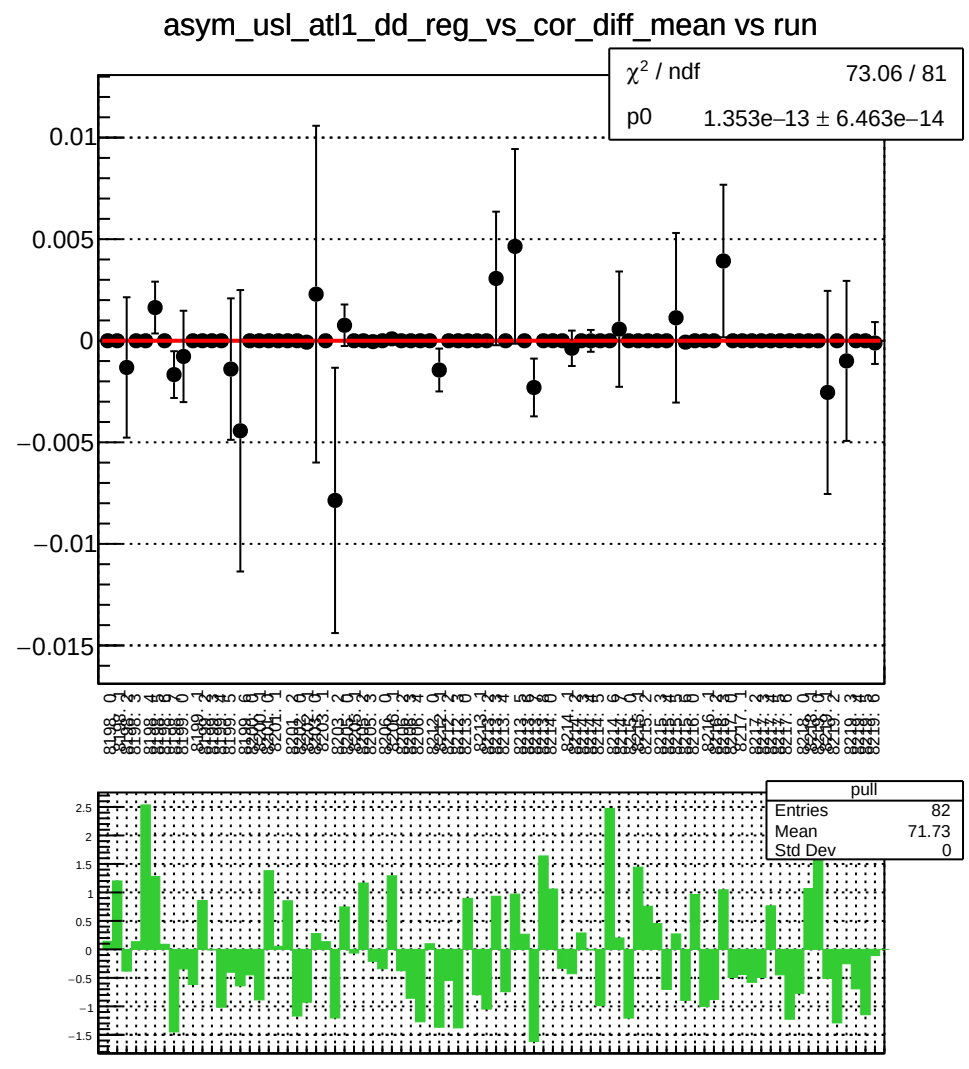

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.12 / 81
p0 −915.5 ± 518.3
pull
Entries 82
Mean 417.6
Std Dev 0
pull1D
Entries 82
Mean −0.01484
Std Dev 1.054

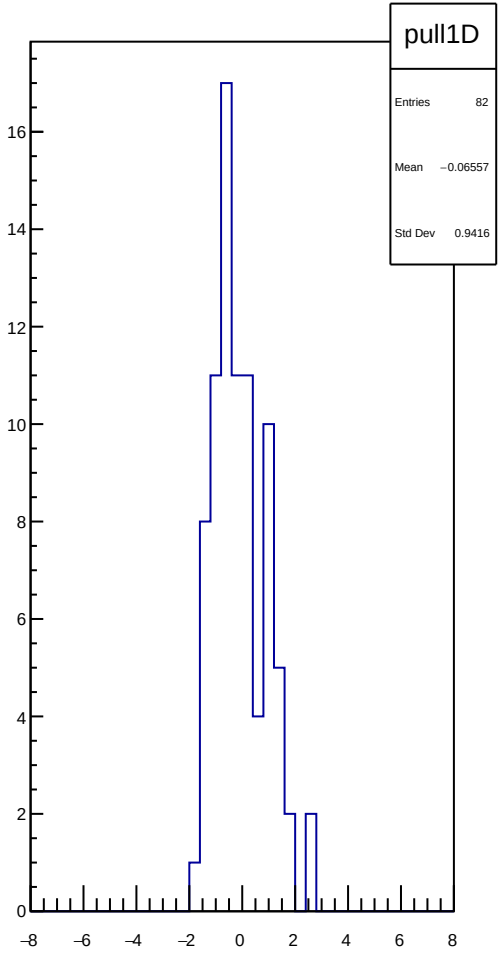

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2503 / 81
p0 466.3 ± 0.3665
520
500
480
460
440
420

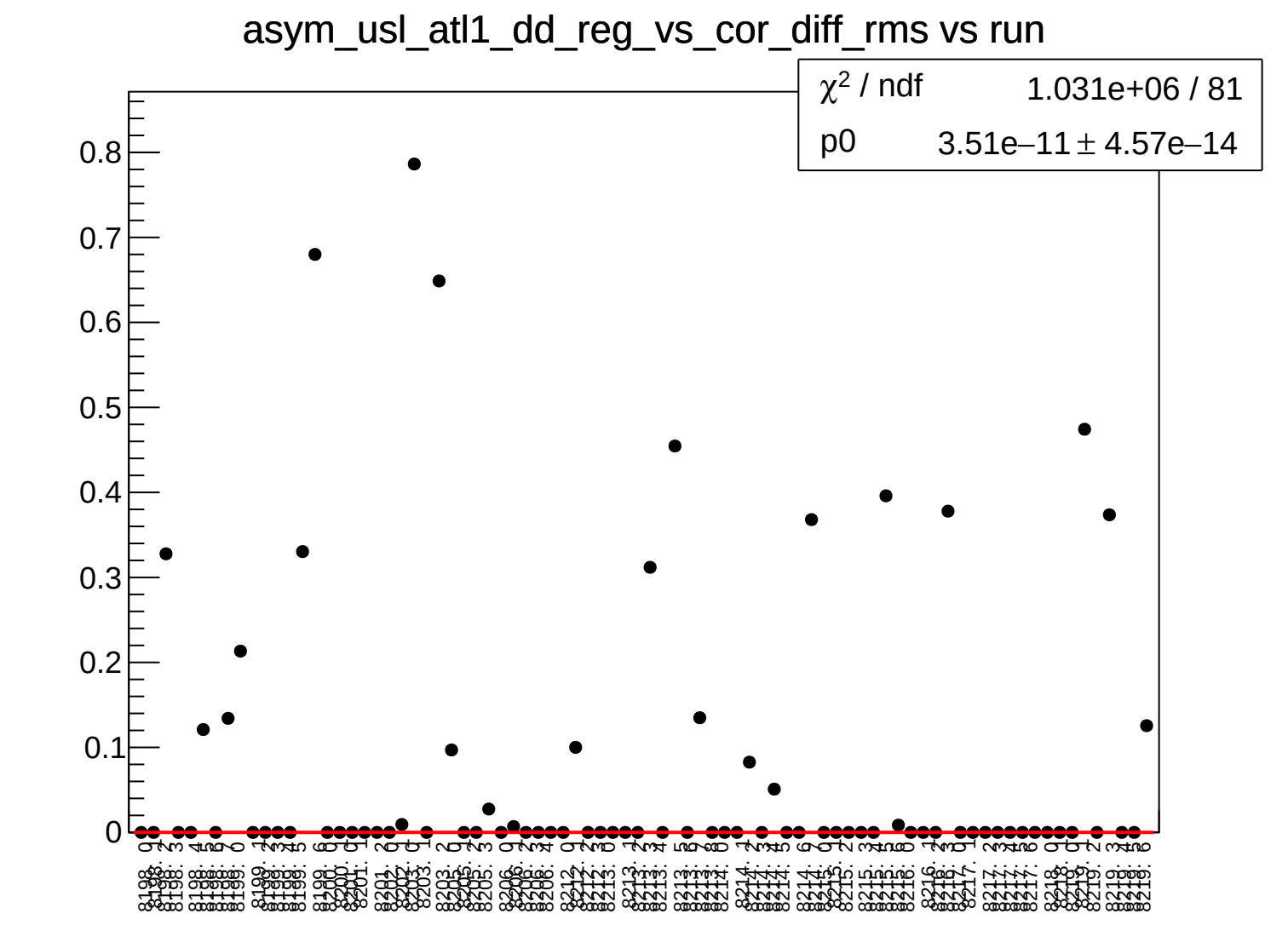

asym_usl_atl1_dd_mean vs run
χ² / ndf 63.96 / 81
p0 −76.97 ± 1344
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 519.8
Std Dev 0
3
2
1
0
−1
−2

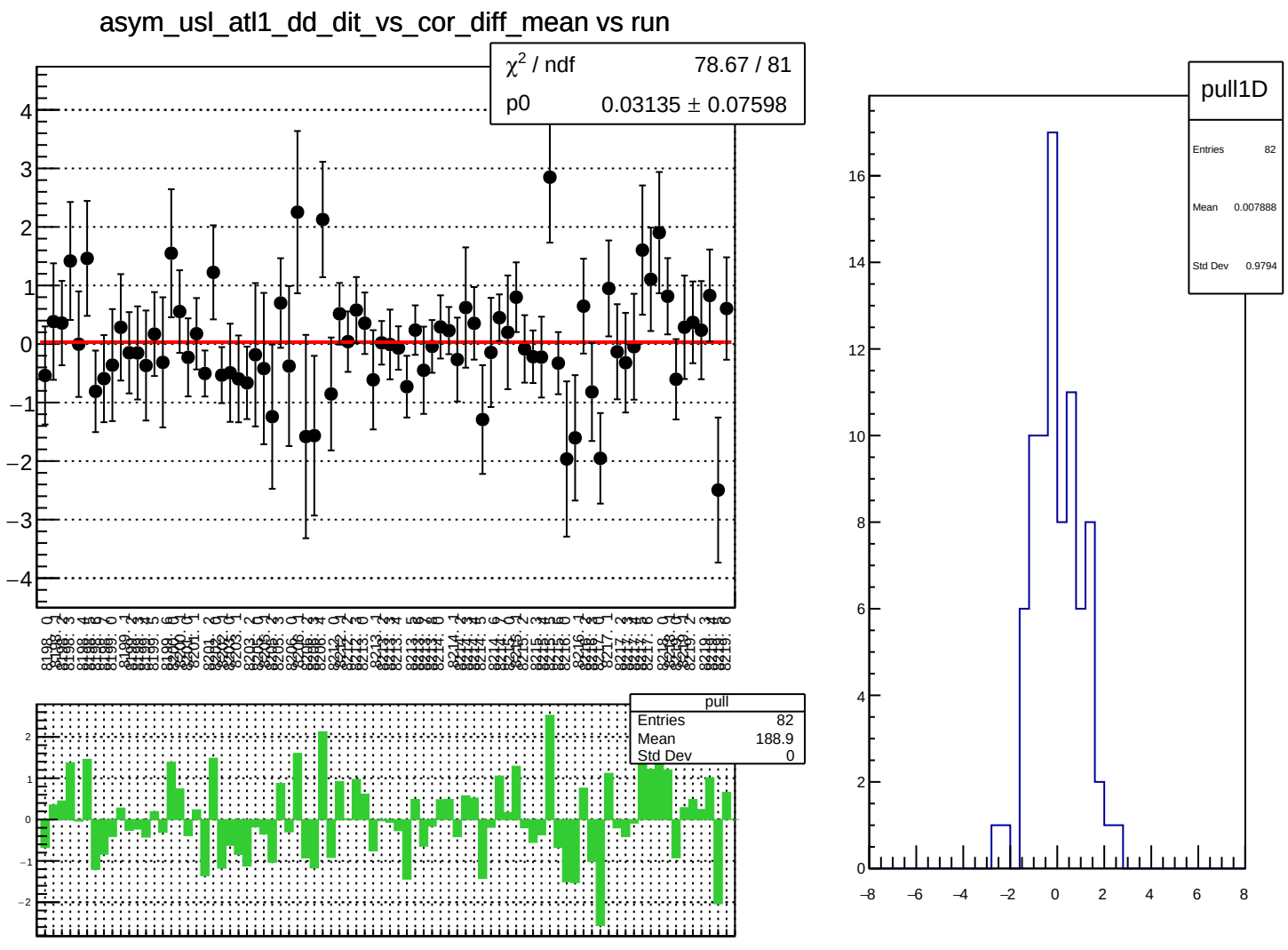

pull1D
Entries 82
Mean 0.01265
Std Dev 0.8831
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

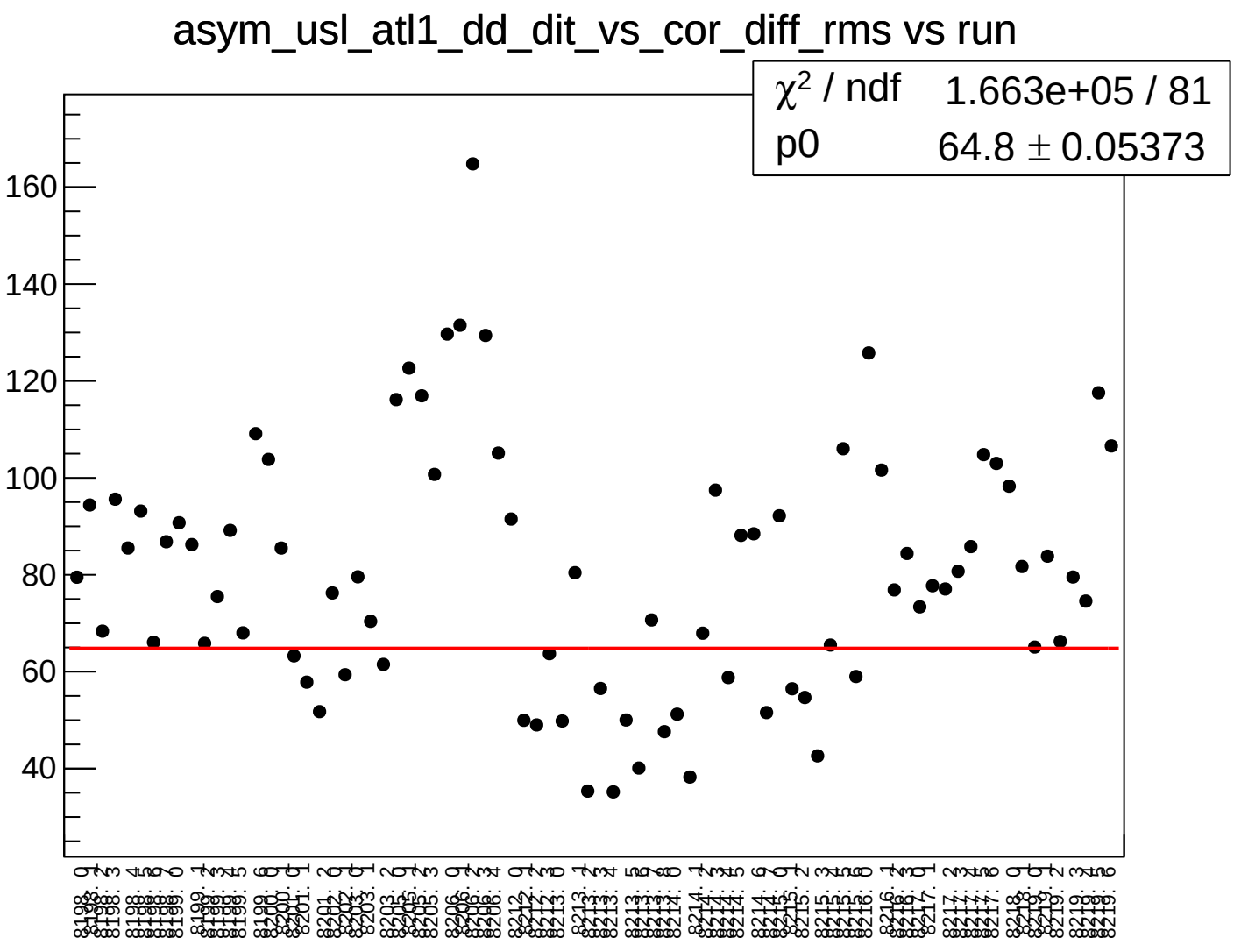

asym_usl_atl1_dd_rms vs run
χ² / ndf 199 / 81
p0 1210 ± 0.9501
1260
1240
1220
1200
1180

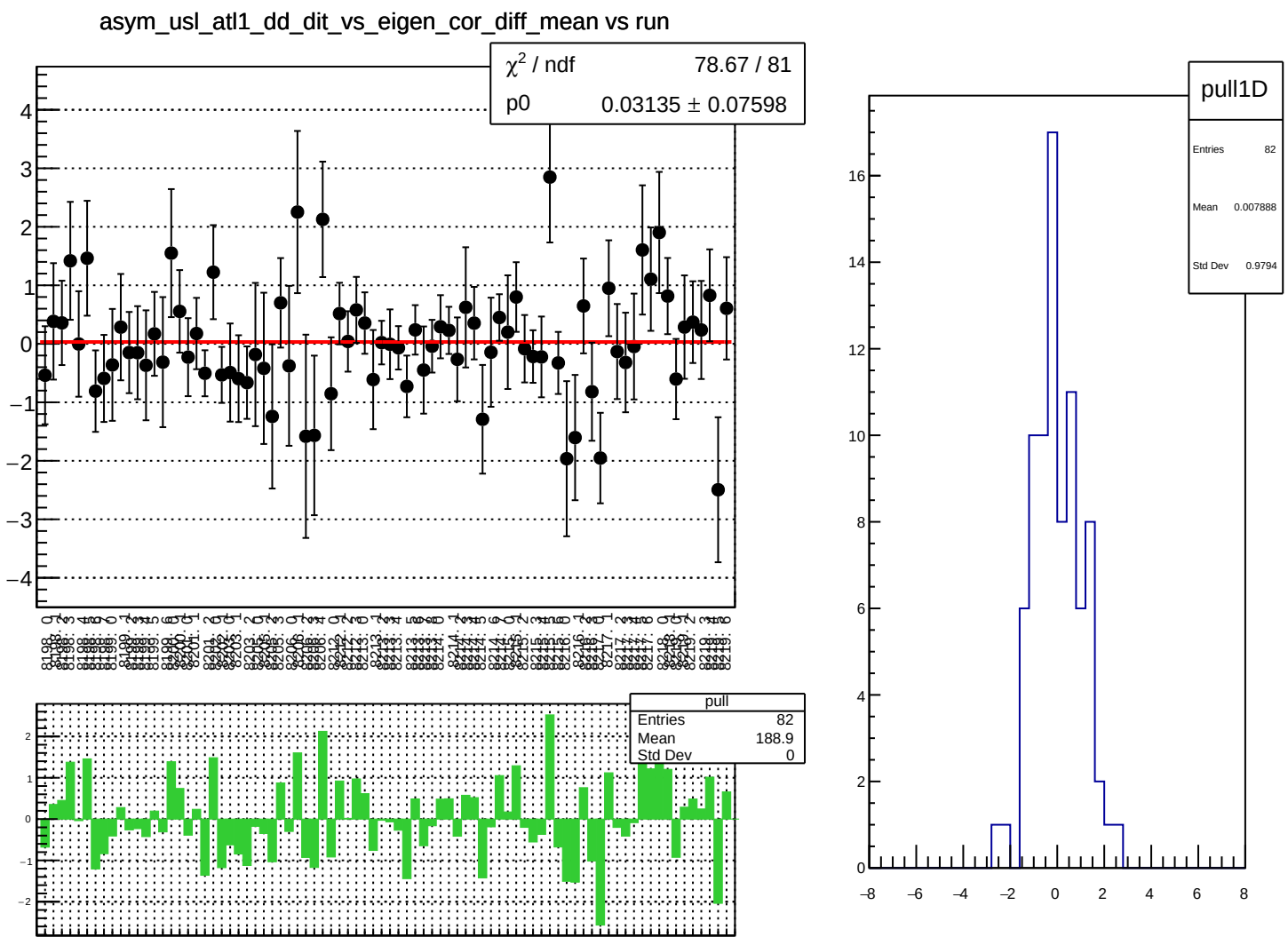

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.06 / 81
p0 1.353e−13 ± 6.463e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 82
Mean 71.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

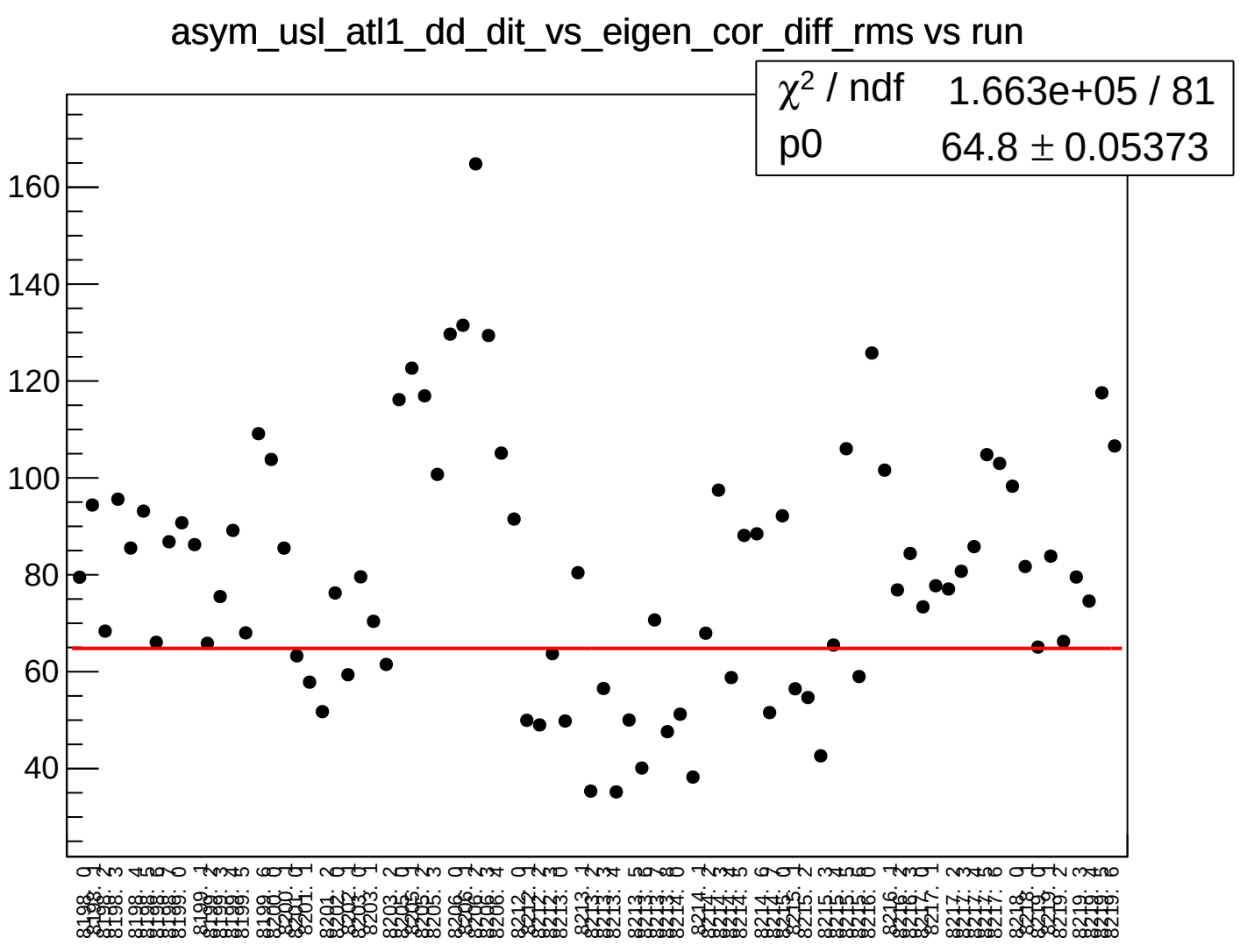

pull1D
Entries 82
Mean −0.06557
Std Dev 0.9416
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

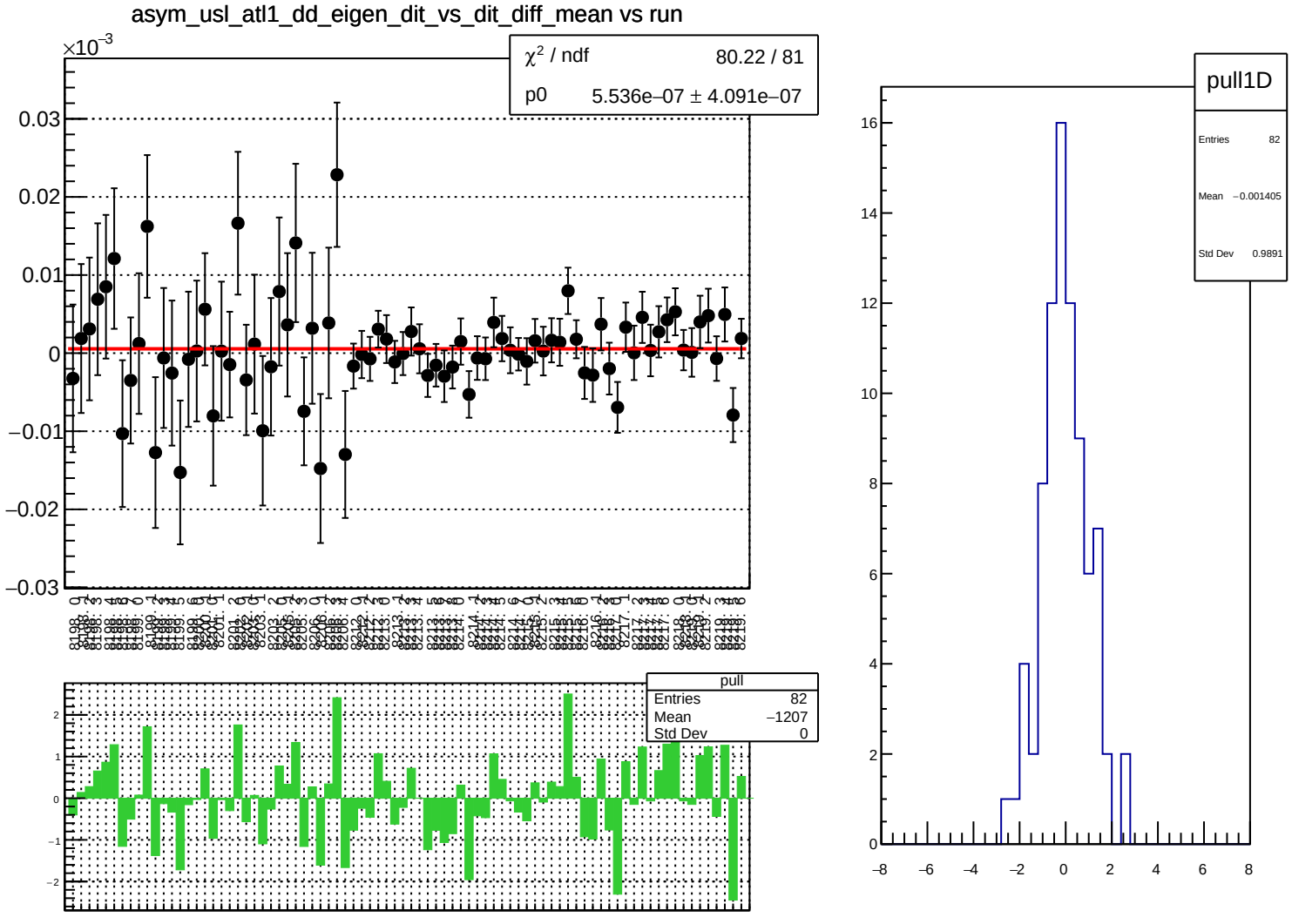

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.031e+06 / 81
p0 3.51e−11 ± 4.57e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

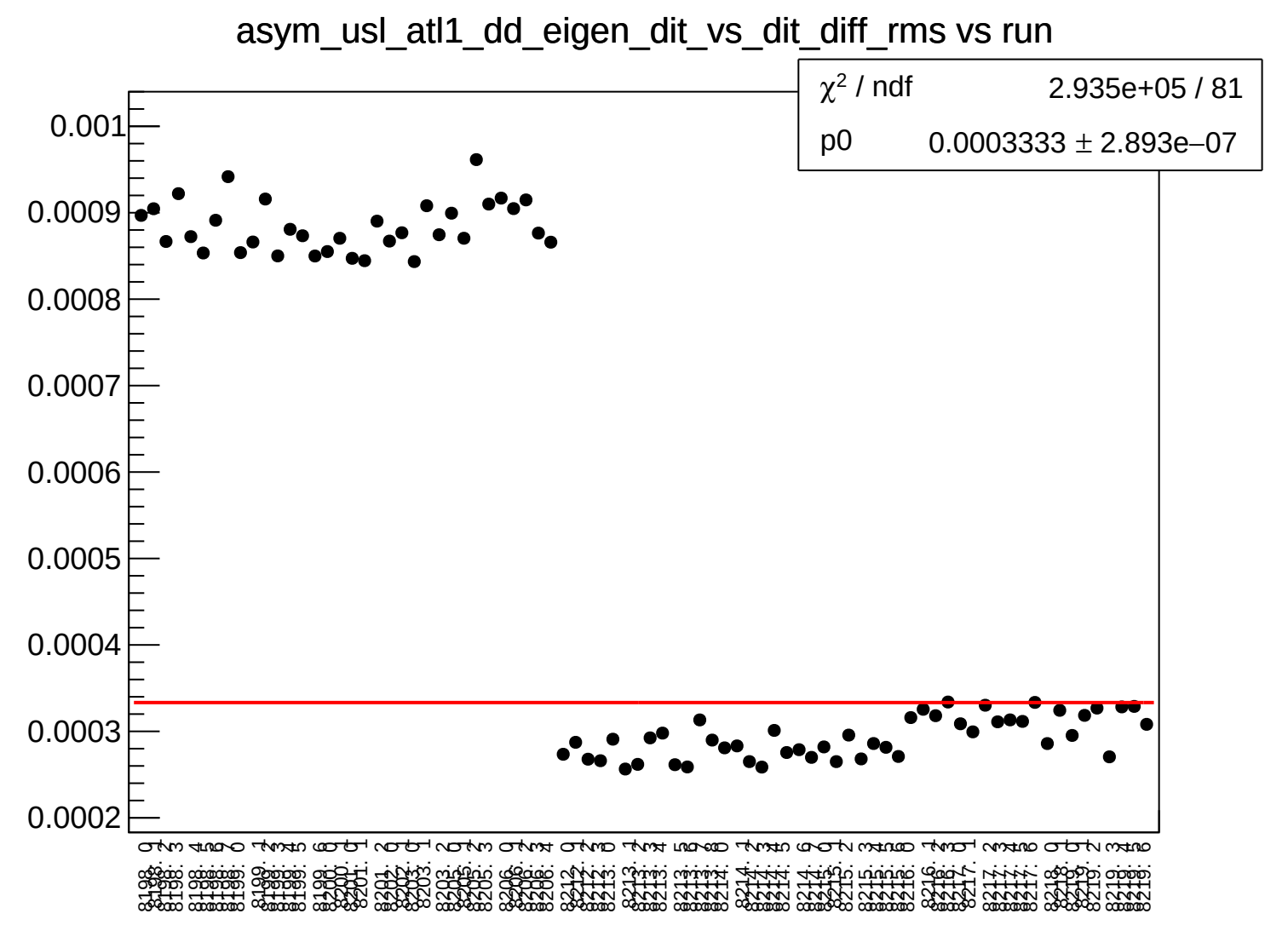

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.67 / 81
p0 0.03135 ± 0.07598
pull
Entries 82
Mean 188.9
Std Dev 0
pull1D
Entries 82
Mean 0.007888
Std Dev 0.9794

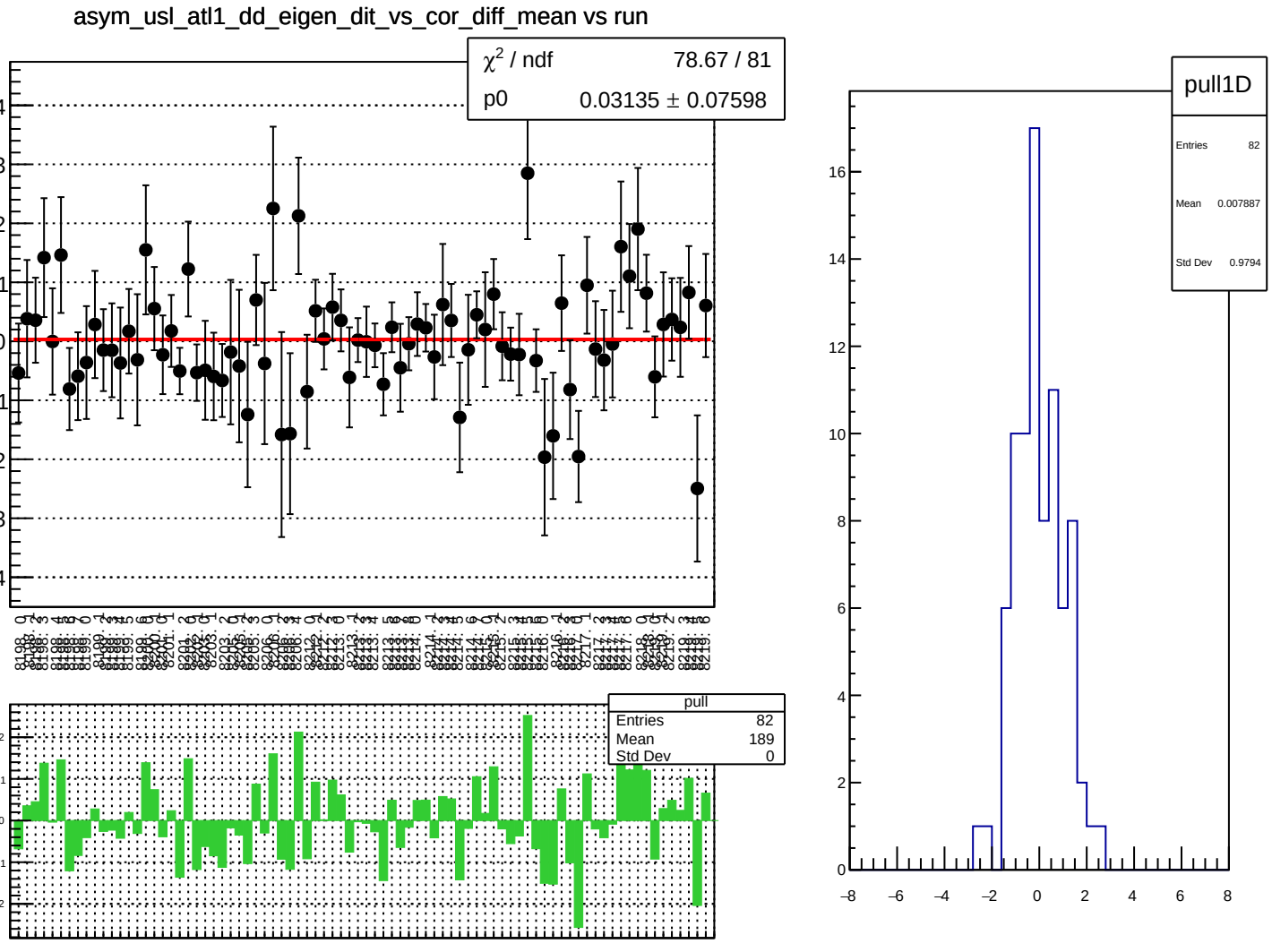

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.663e+05 / 81
p0 64.8 ± 0.05373
160
140
120
100
80
60
40

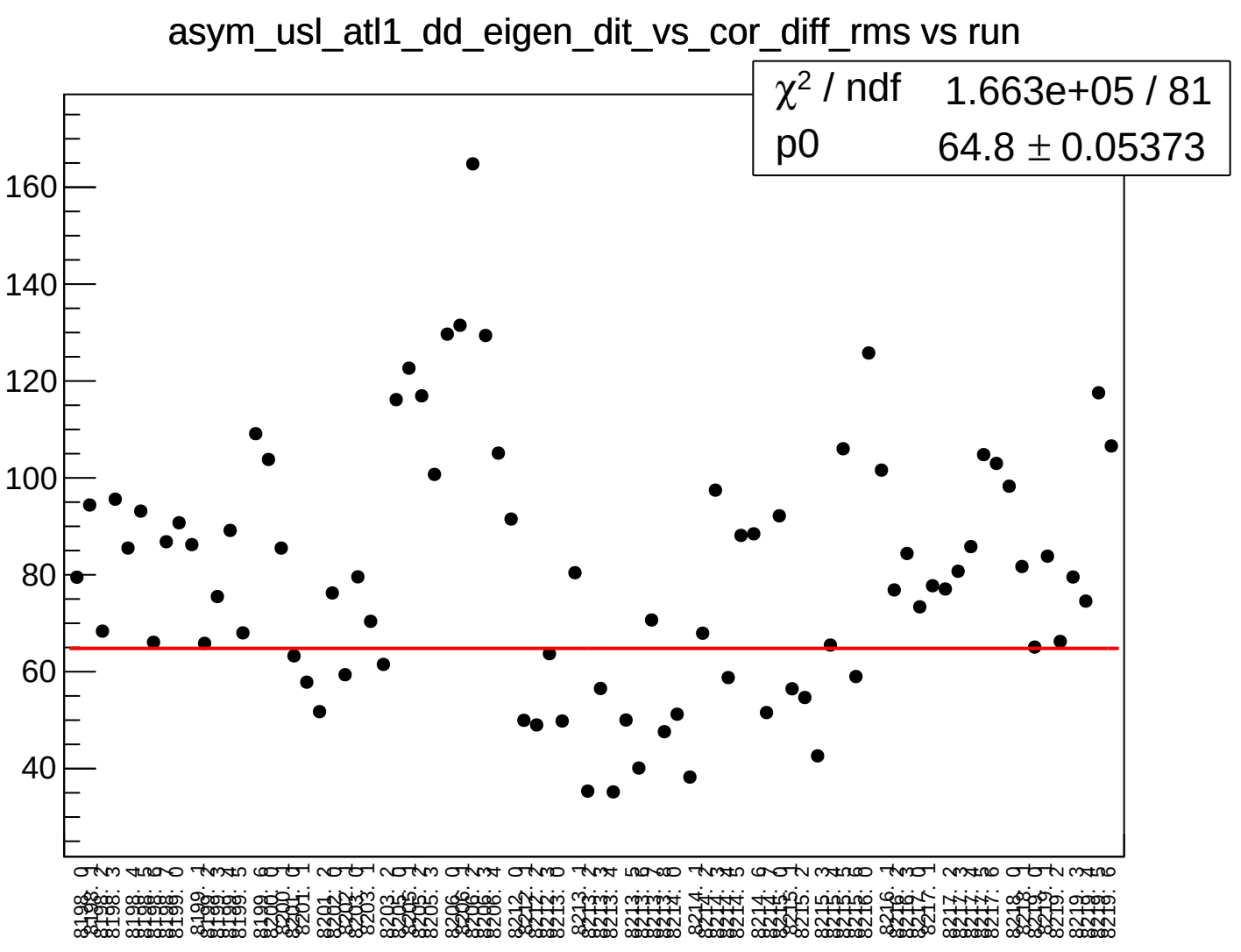

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.67 / 81
p0 0.03135 ± 0.07598
pull
Entries 82
Mean 188.9
Std Dev 0
pull1D
Entries 82
Mean 0.007888
Std Dev 0.9794

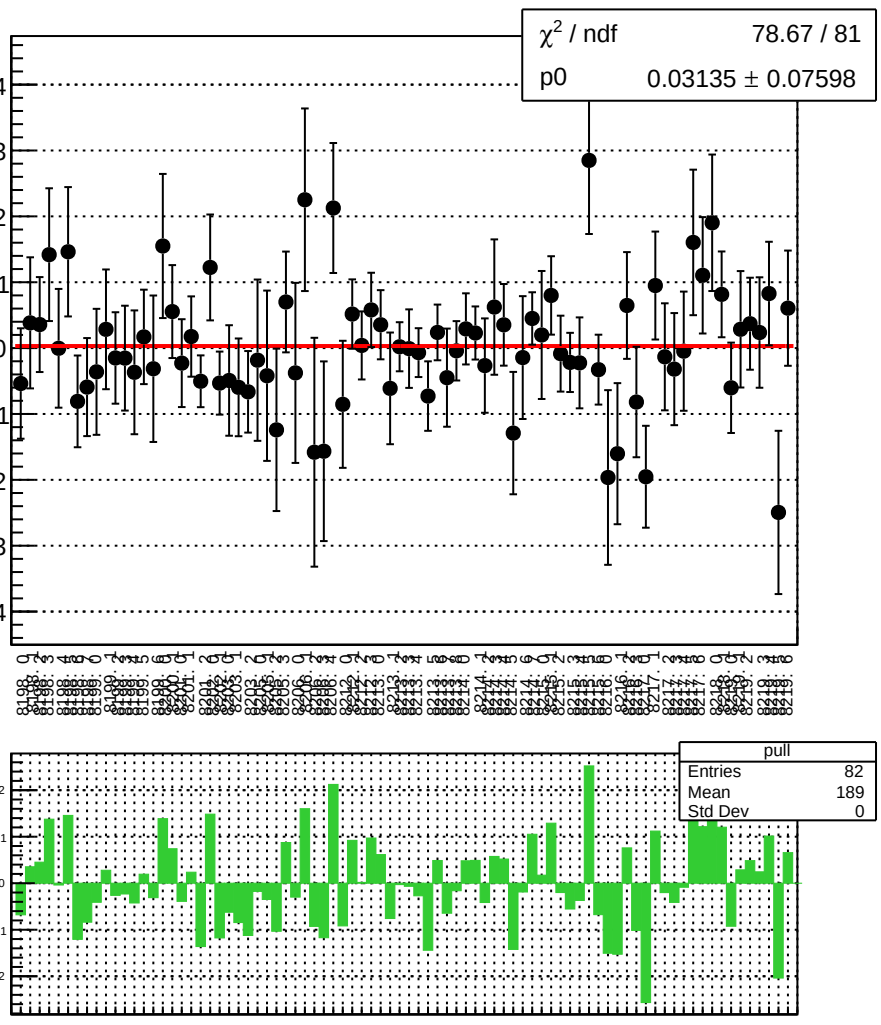

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.663e+05 / 81
p0 64.8 ± 0.05373
160
140
120
100
80
60
40

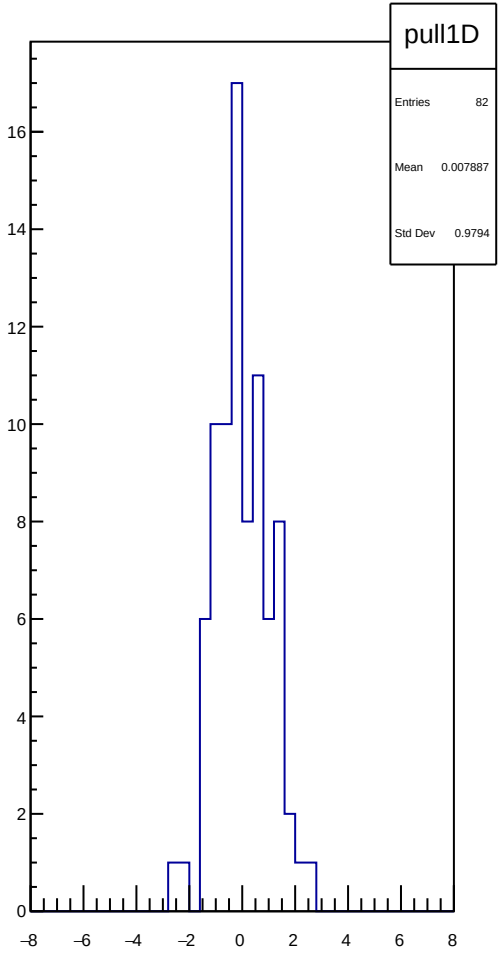

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.22 / 81
p0 5.536e−07 ± 4.091e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 82
Mean −1207
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.001405
Std Dev 0.9891
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

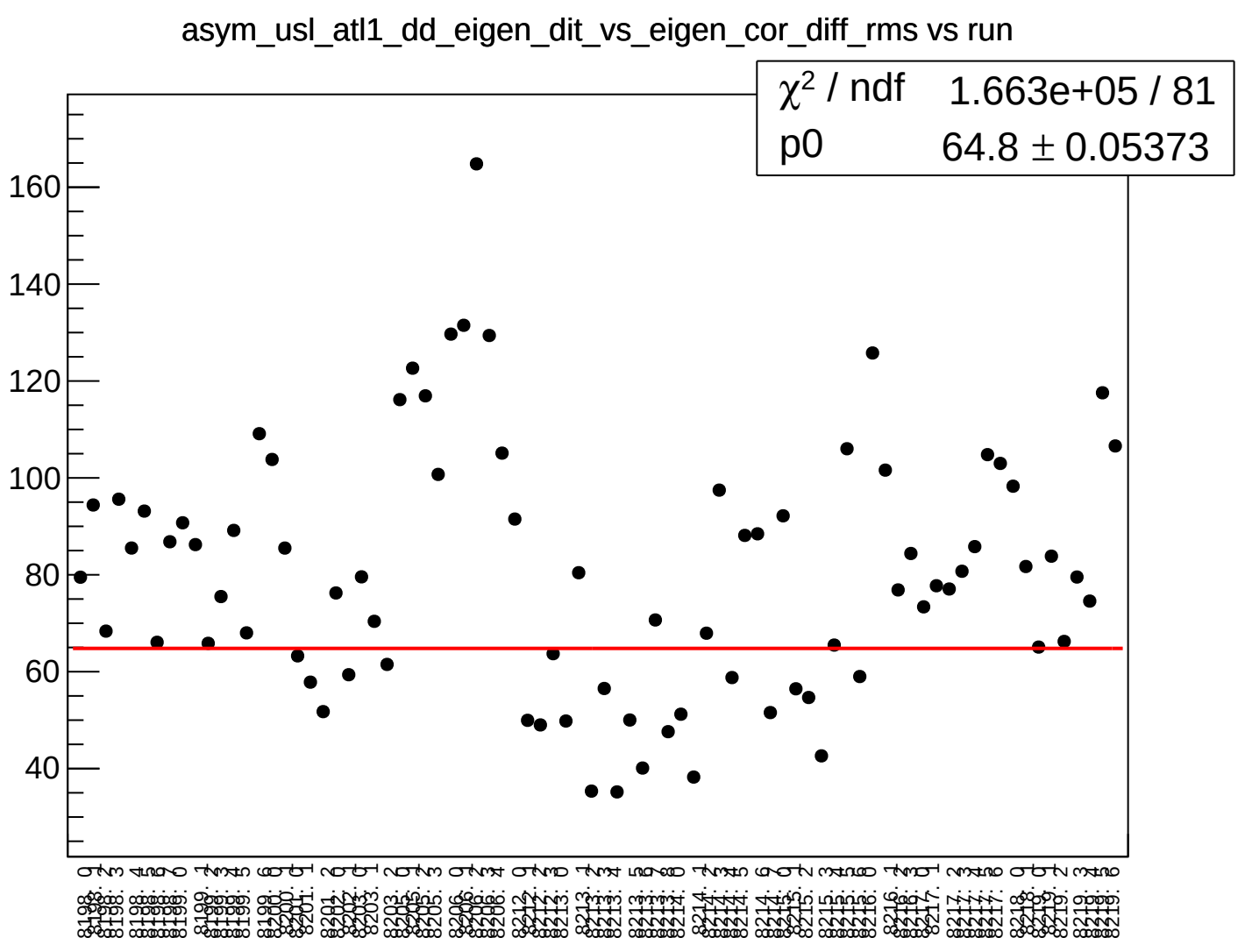

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.935e+05 / 81
p0 0.0003333 ± 2.893e−07
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002

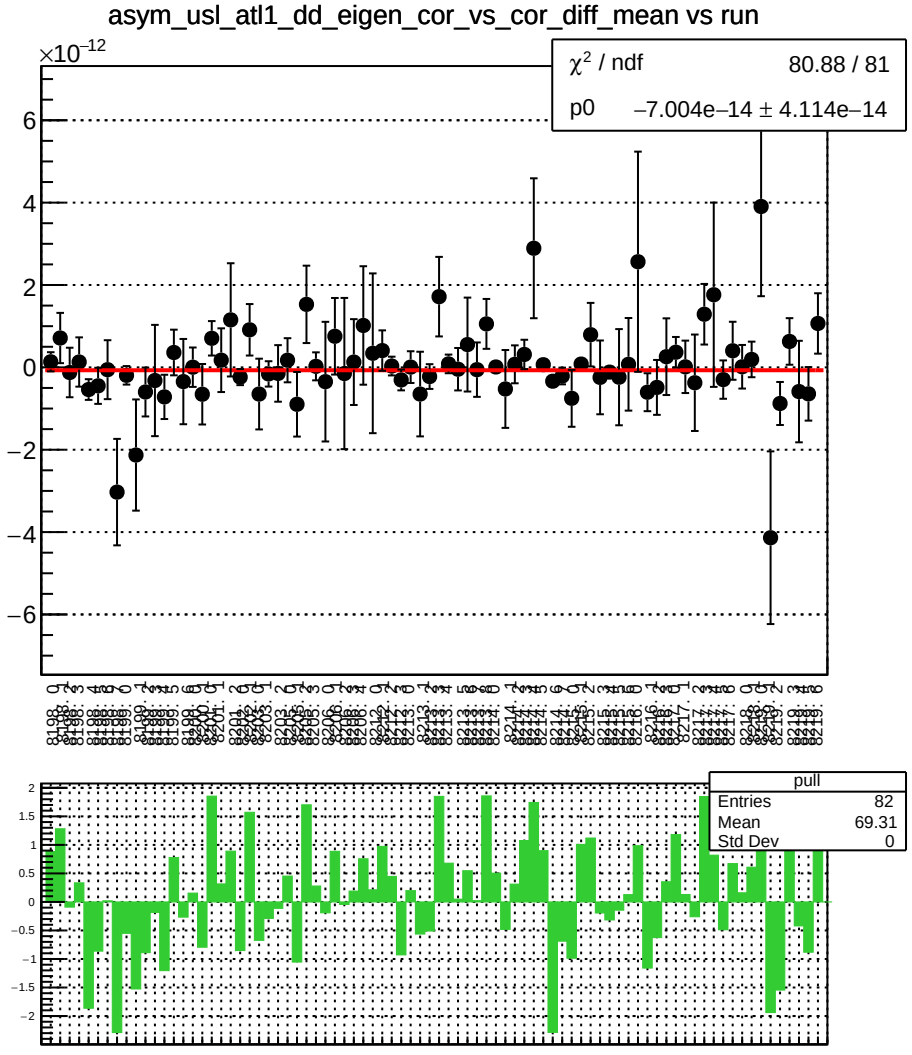

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.67 / 81
p0 0.03135 ± 0.07598
pull
Entries 82
Mean 189
Std Dev 0
pull1D
Entries 82
Mean 0.007887
Std Dev 0.9794

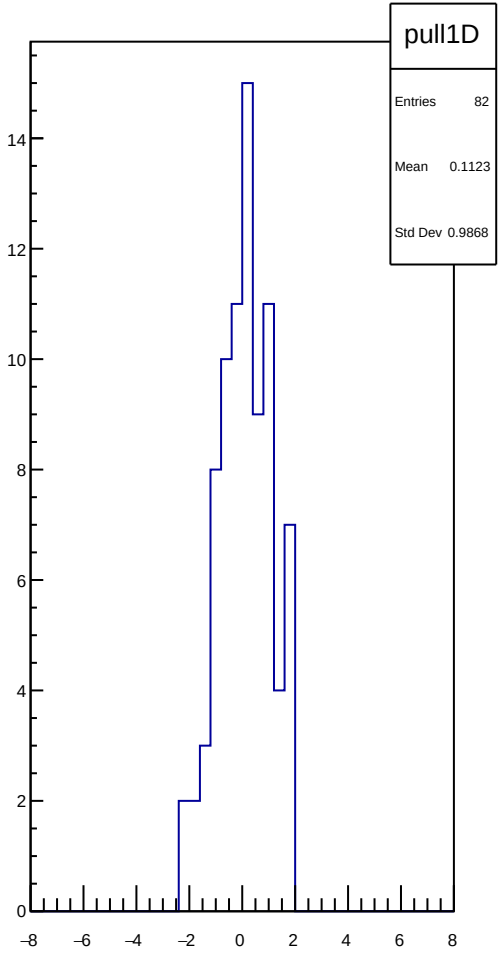

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.663e+05 / 81
p0 64.8 ± 0.05373
160
140
120
100
80
60
40

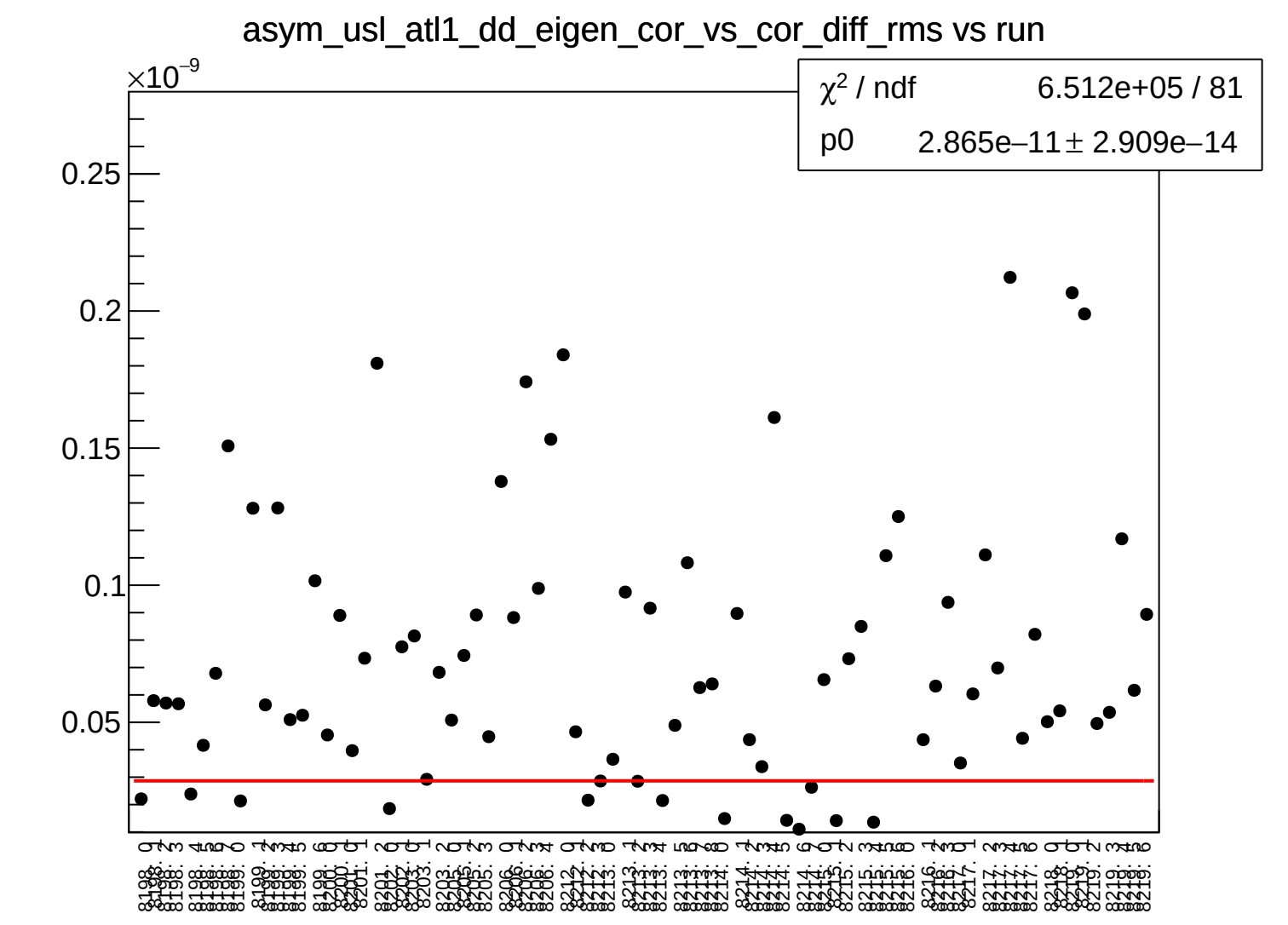

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.67 / 81
p0 0.03135 ± 0.07598
pull
Entries 82
Mean 189
Std Dev 0

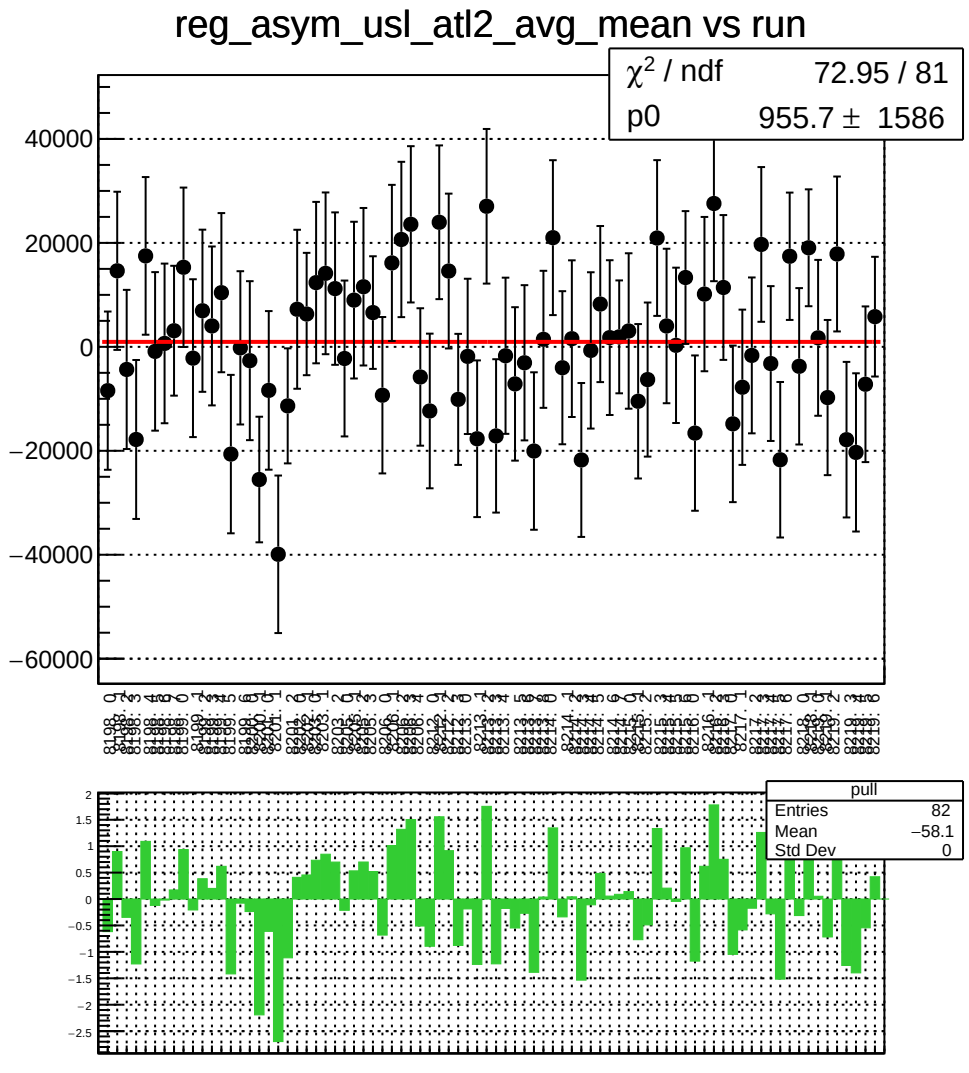

pull1D
Entries 82
Mean 0.007887
Std Dev 0.9794

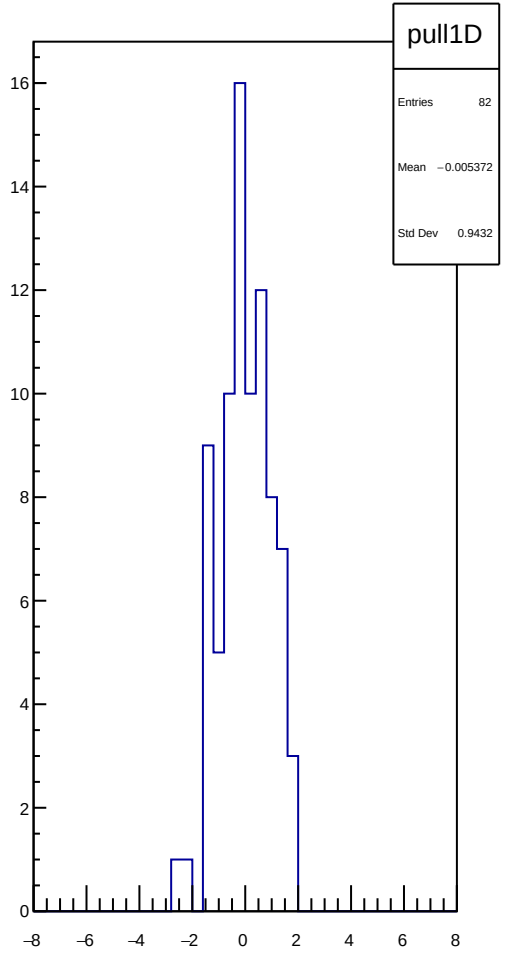

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.663e+05 / 81
p0 64.8 ± 0.05373
160
140
120
100
80
60
40

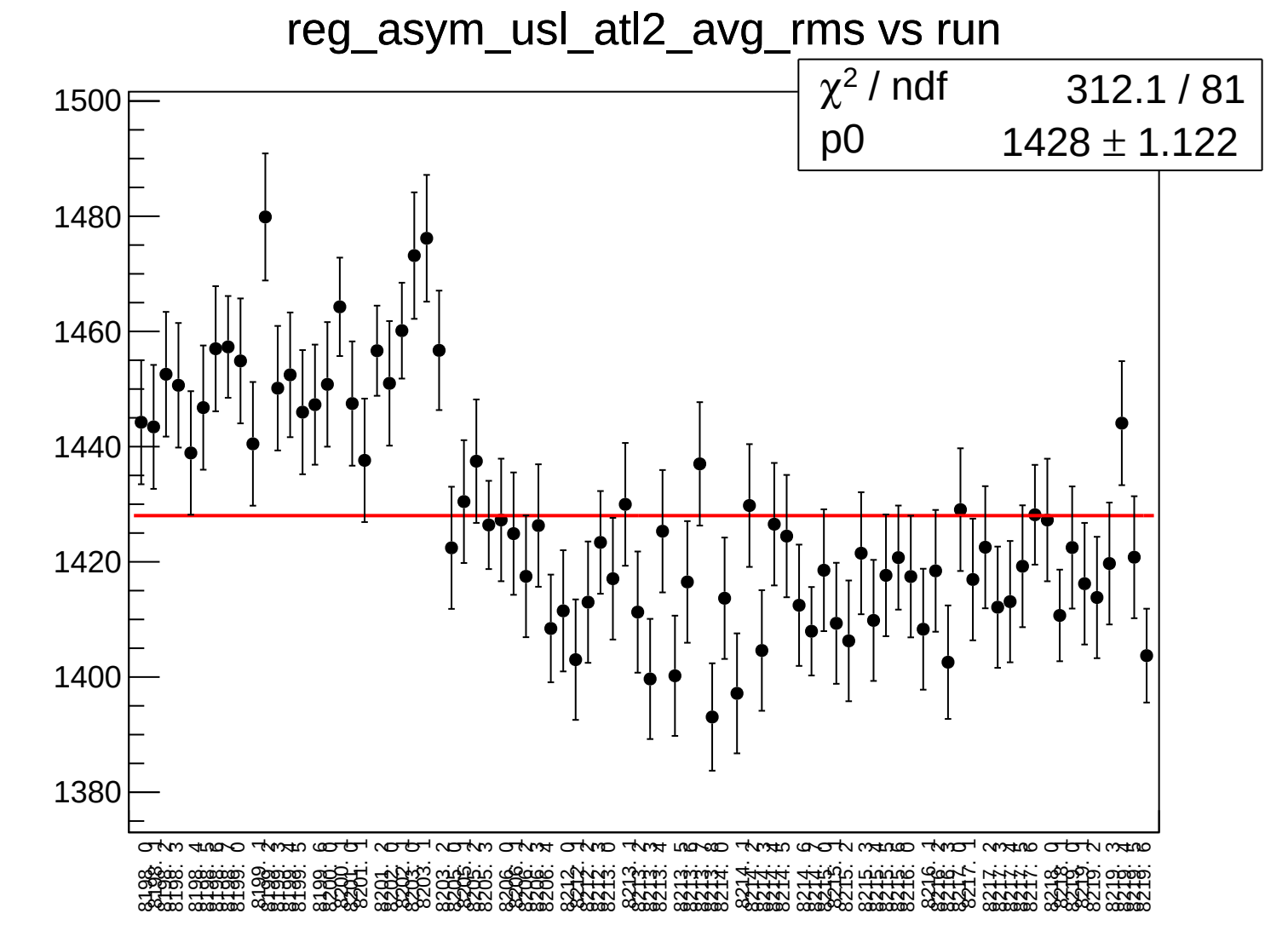

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.88 / 81
p0 −7.004e−14 ± 4.114e−14
pull
Entries 82
Mean 69.31
Std Dev 0

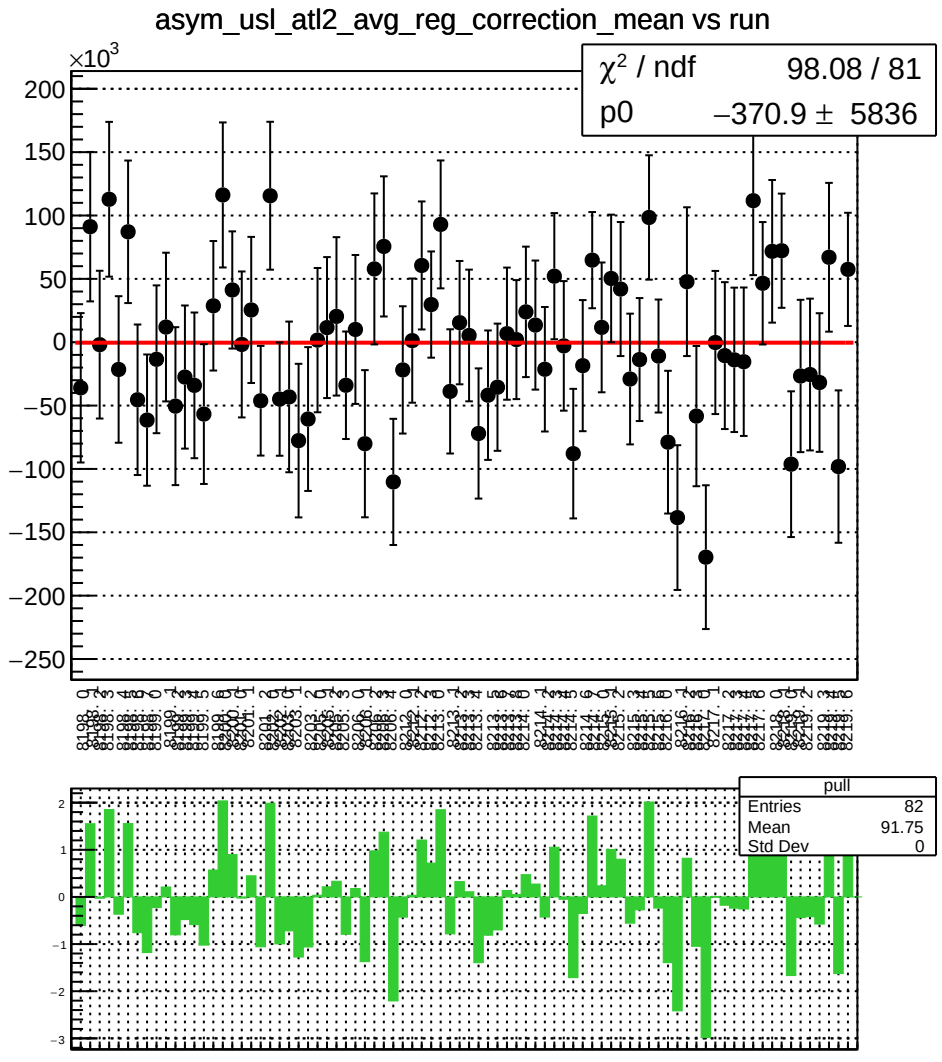

pull1D
Entries 82
Mean 0.1123
Std Dev 0.9868

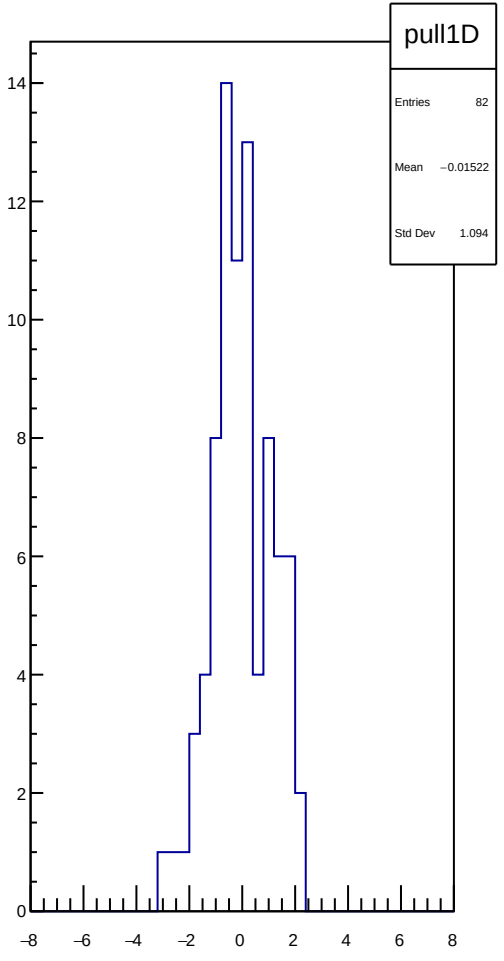

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.512e+05 / 81
p0 2.865e−11 ± 2.909e−14
0.25
0.2
0.15
0.1
0.05

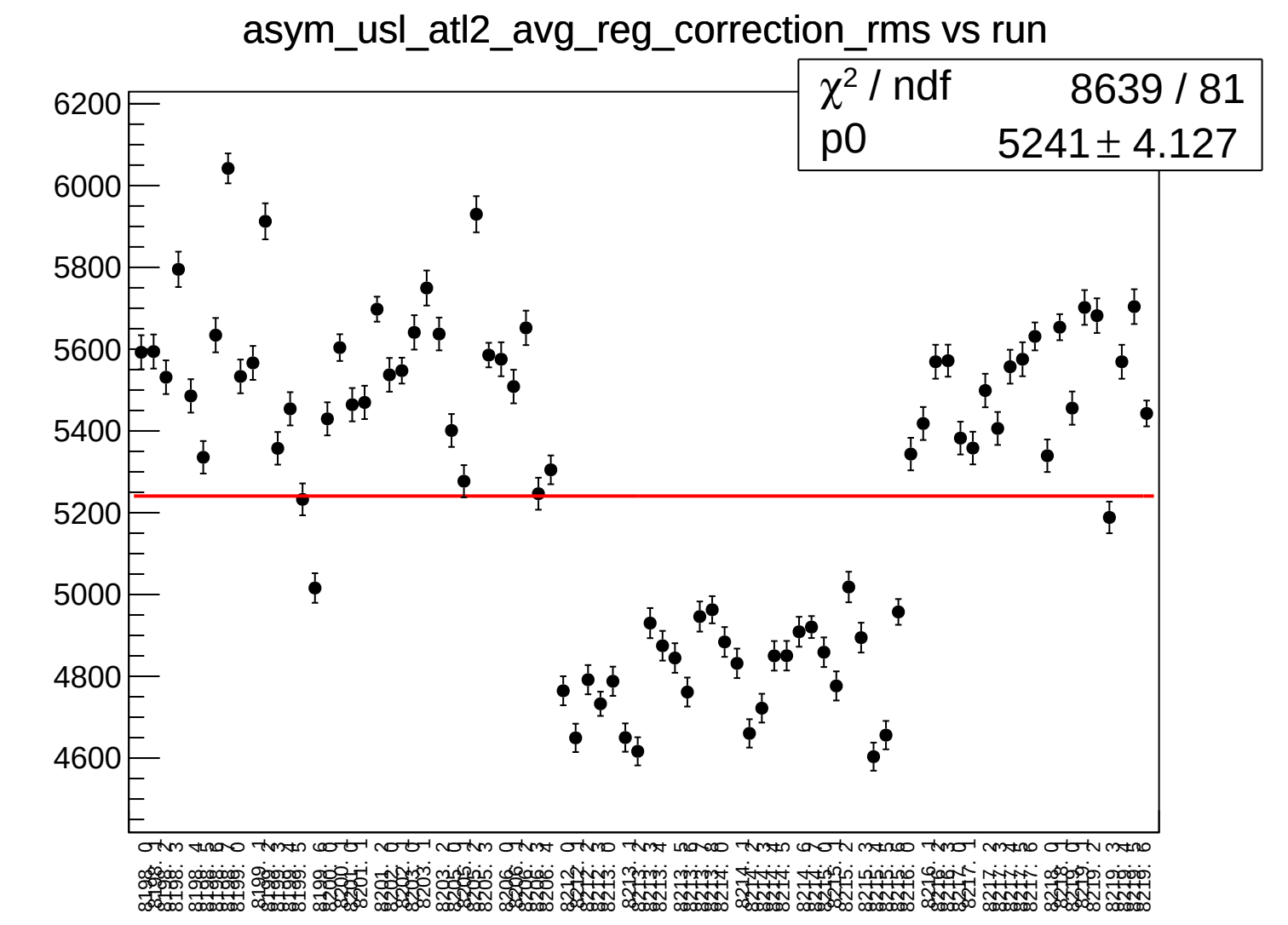

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 72.95 / 81
p0 955.7 ± 1586
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −58.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

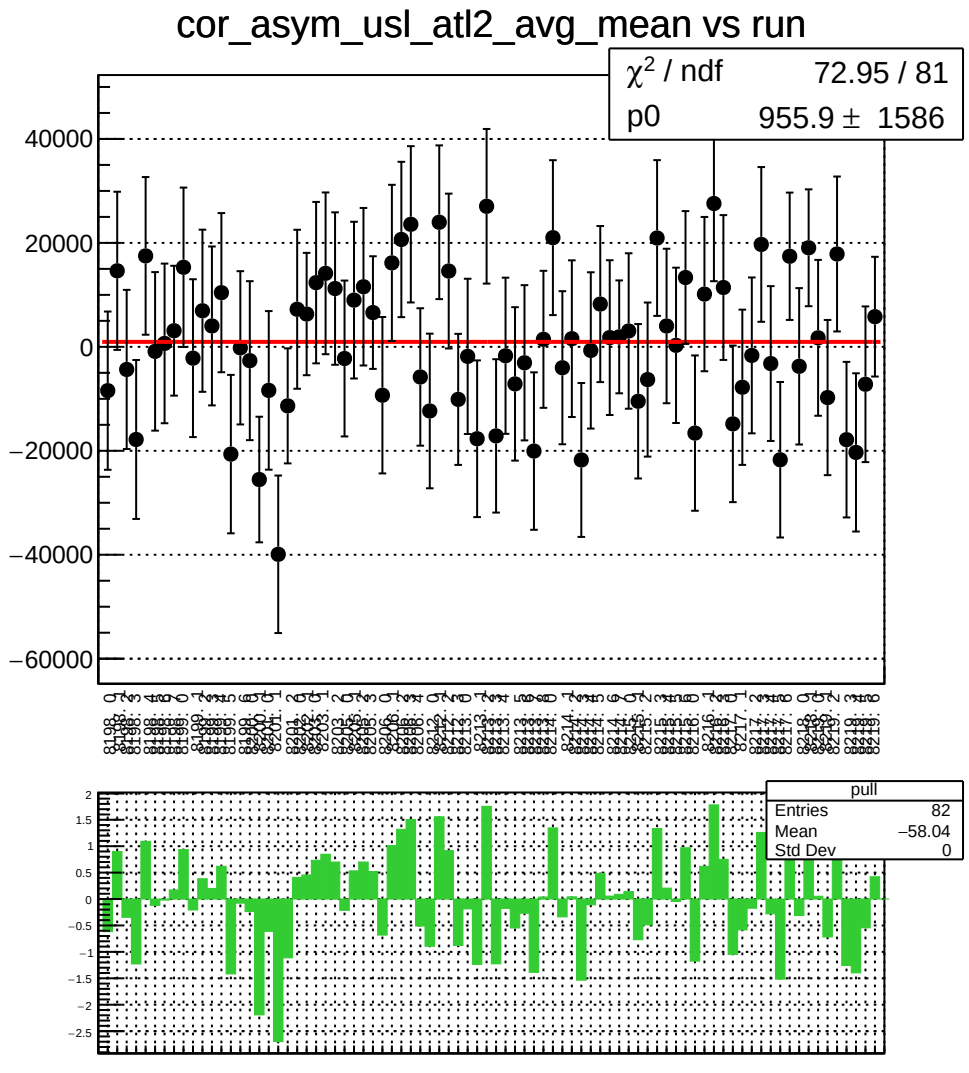

pull1D
Entries 82
Mean −0.005372
Std Dev 0.9432
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

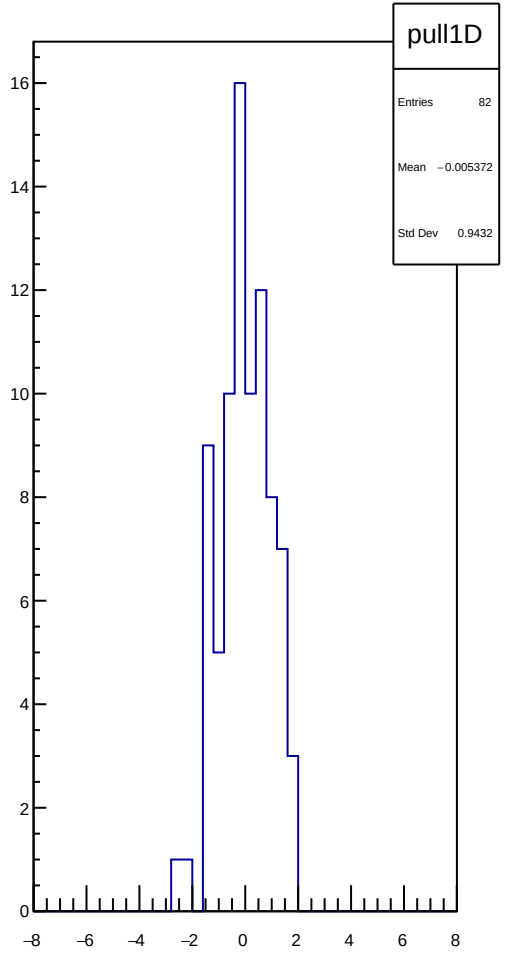

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 312.1 / 81
p0 1428 ± 1.122
1500
1480
1460
1440
1420
1400
1380

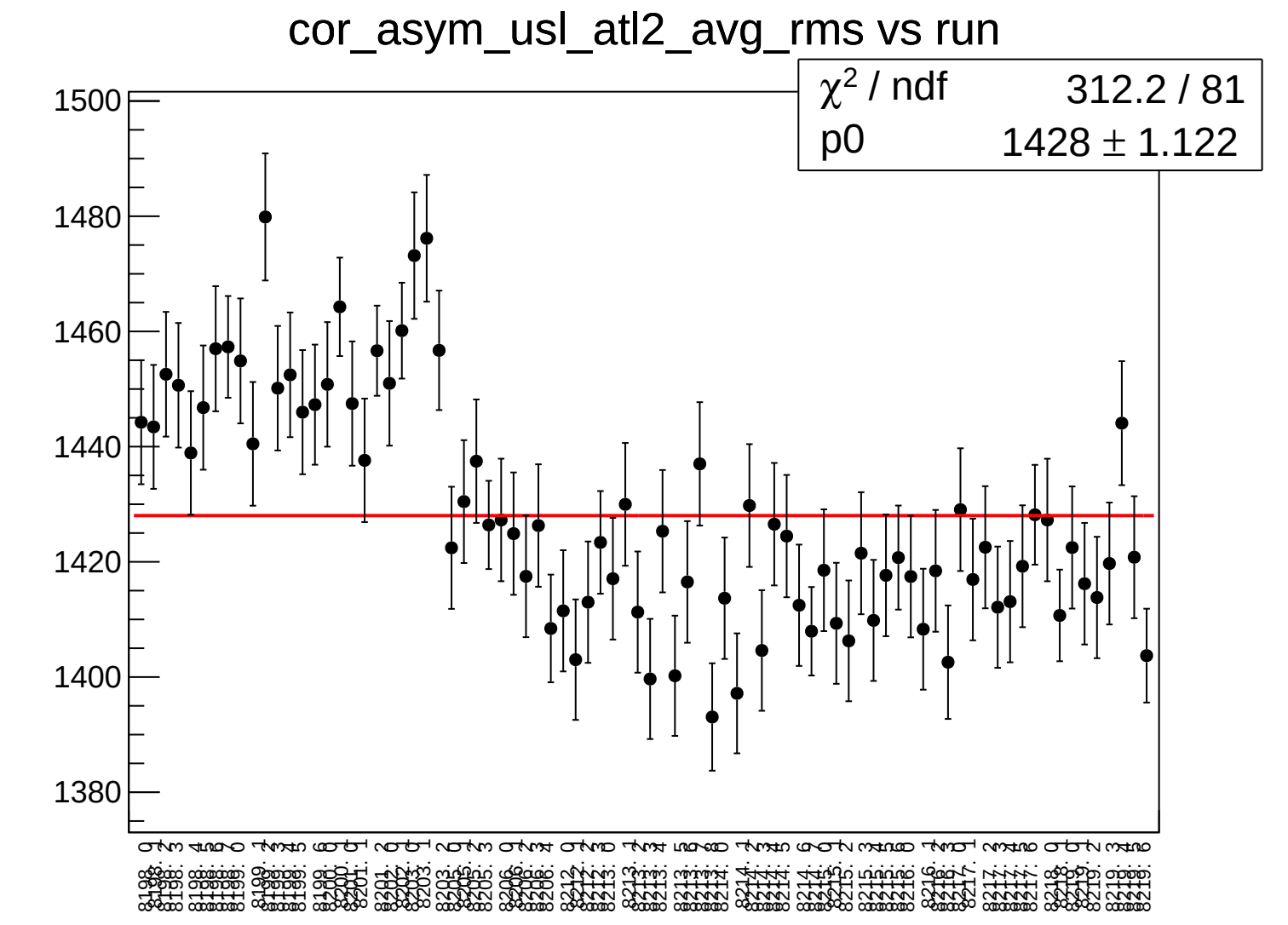

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 98.08 / 81
p0 −370.9 ± 5836
pull
Entries 82
Mean 91.75
Std Dev 0

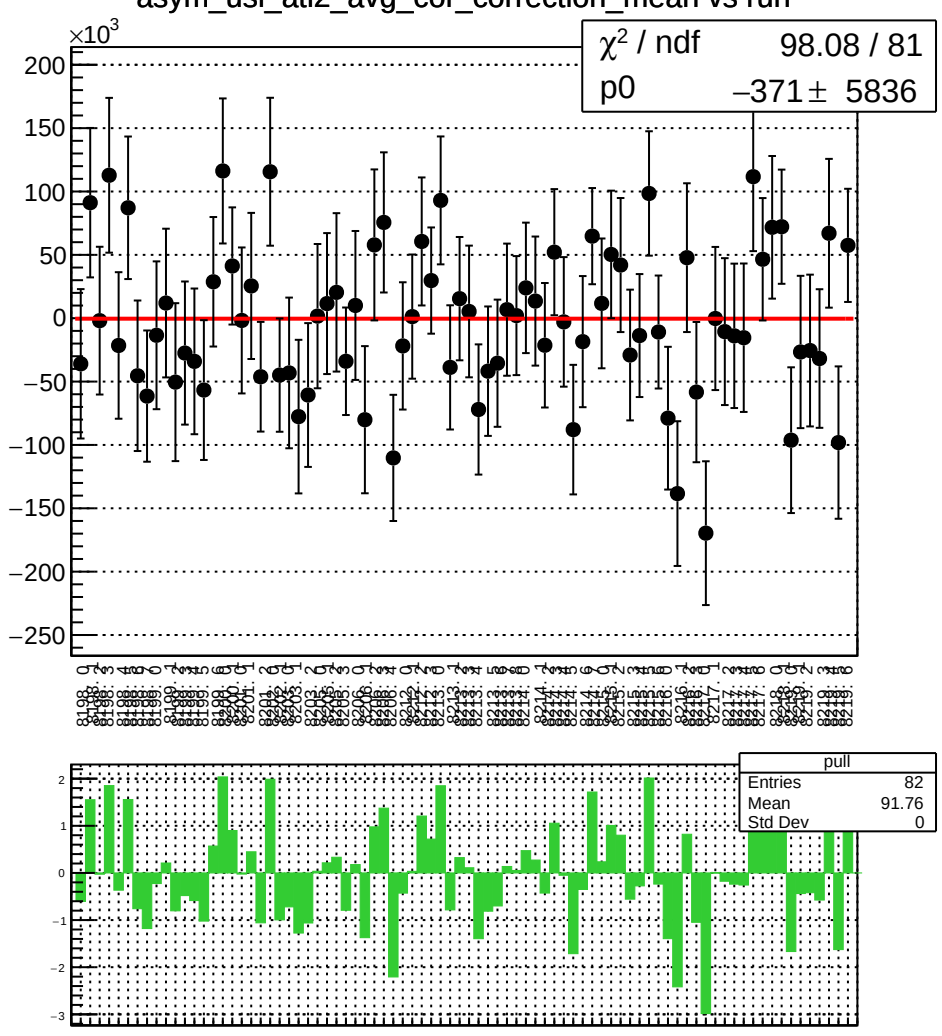

pull1D
Entries 82
Mean −0.01522
Std Dev 1.094

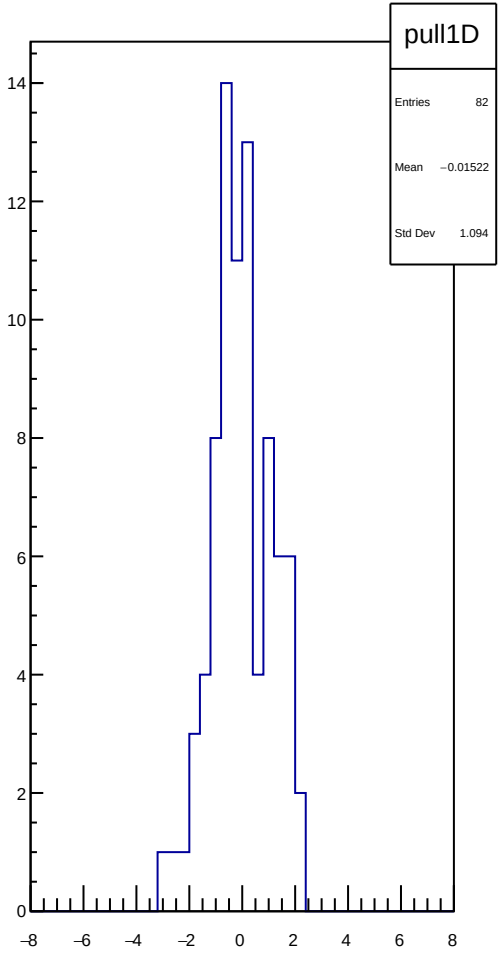

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 8639 / 81
p0 5241 ± 4.127
6200
6000
5800
5600
5400
5200
5000
4800
4600

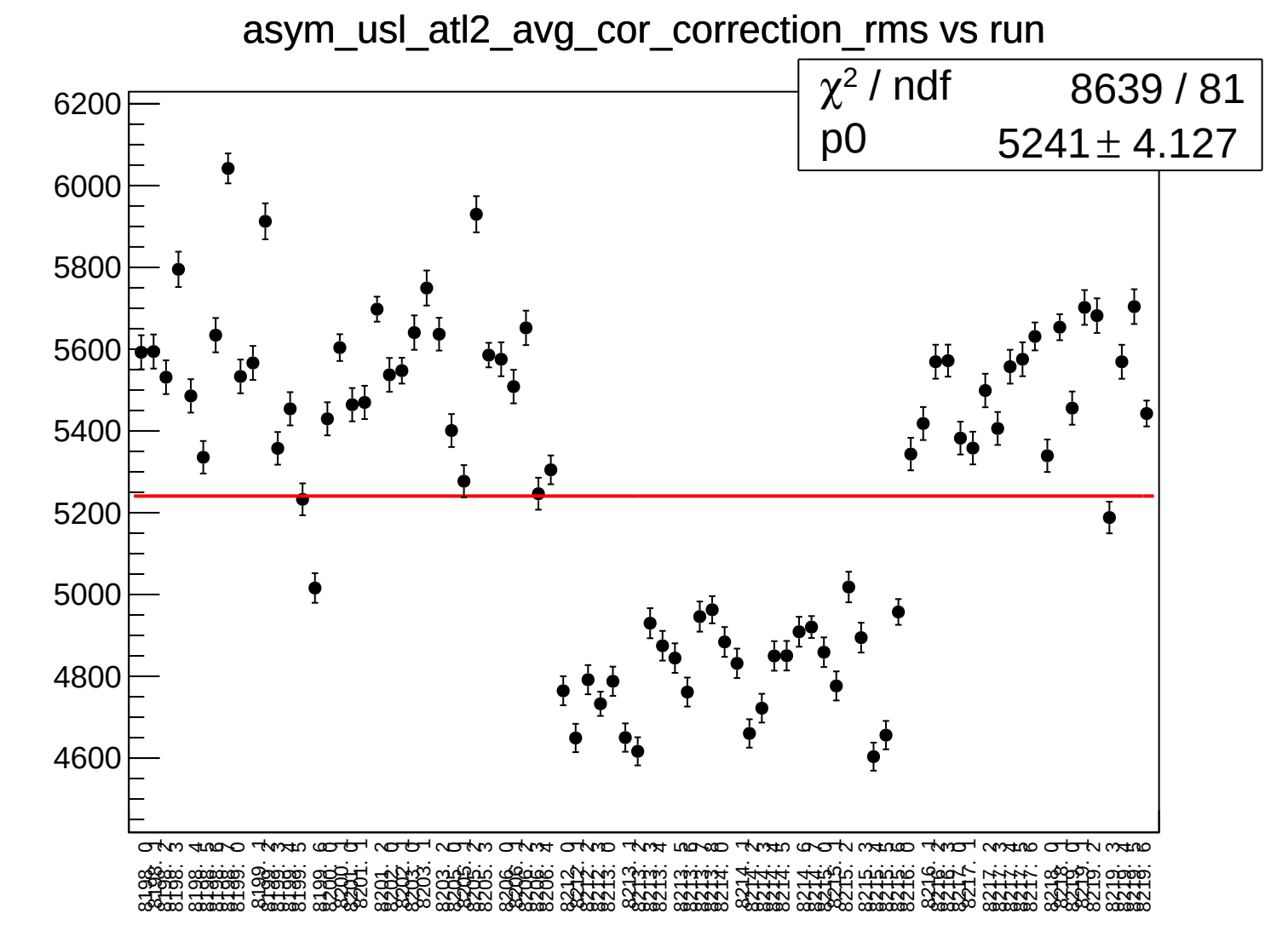

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 72.95 / 81
p0 955.9 ± 1586
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −58.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

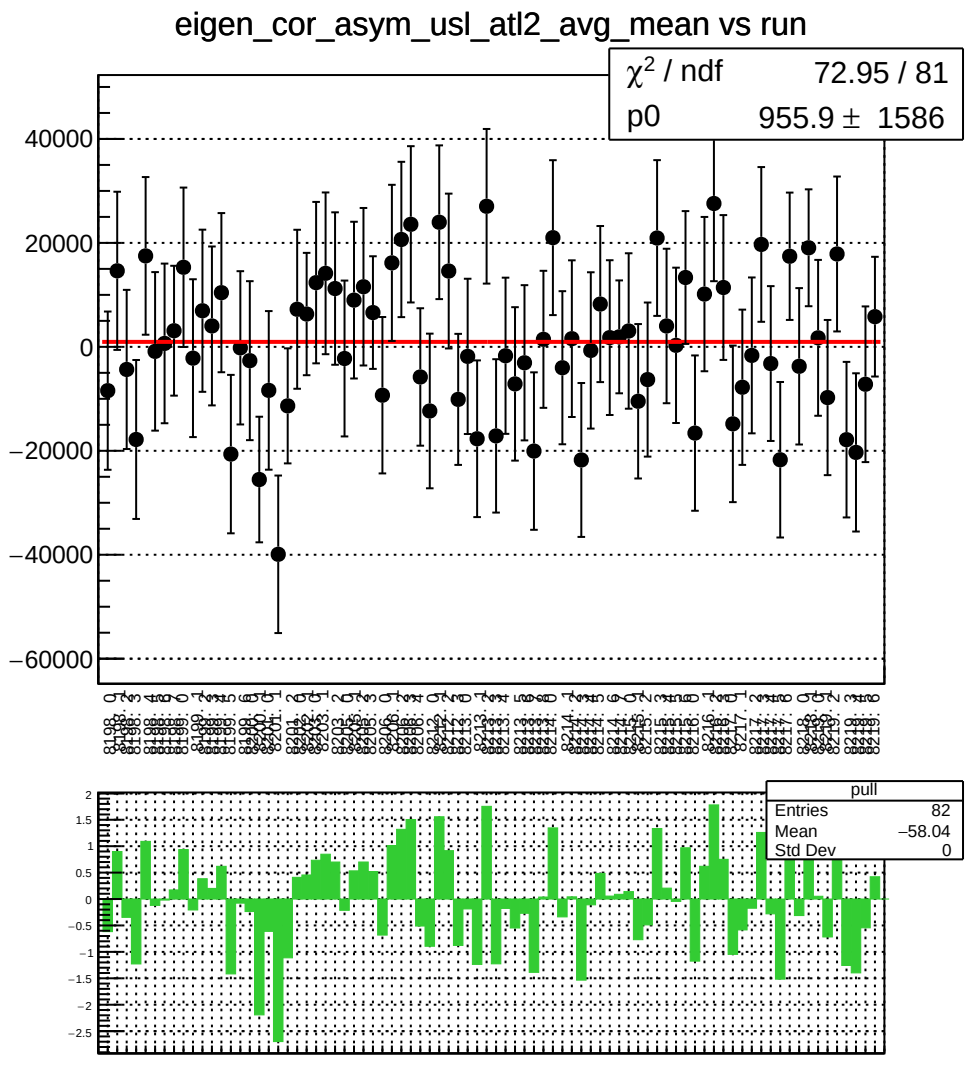

pull1D
Entries 82
Mean −0.005372
Std Dev 0.9432
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

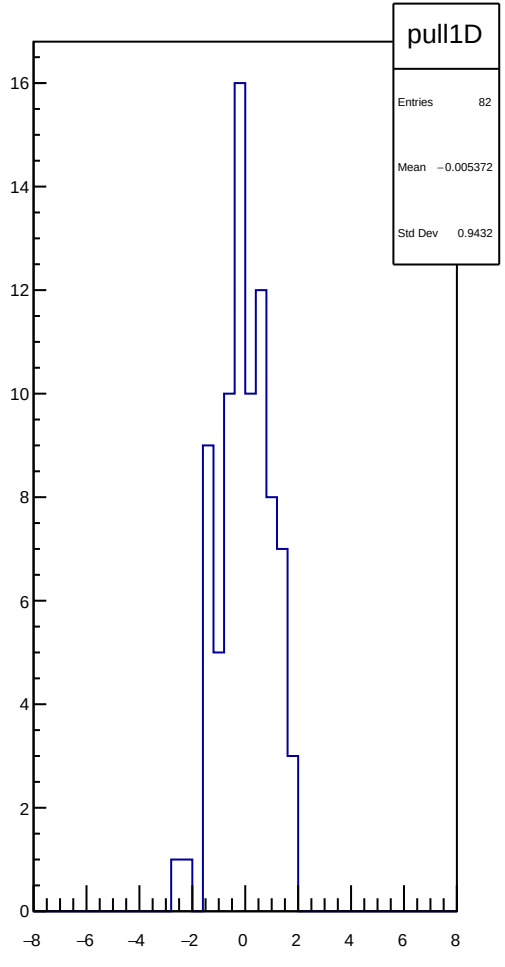

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 312.2 / 81
p0 1428 ± 1.122
1500
1480
1460
1440
1420
1400
1380

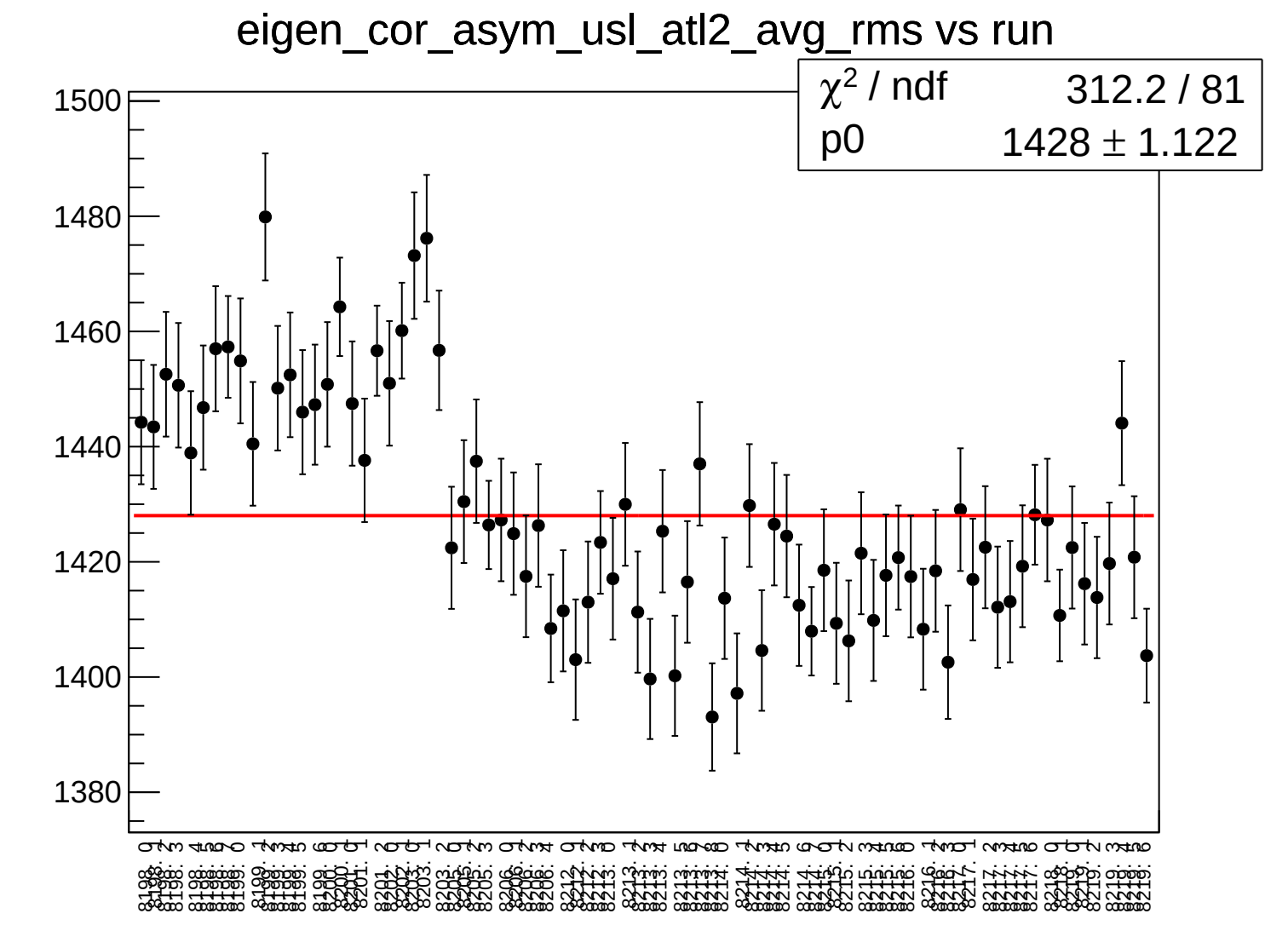

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 98.08 / 81
p0 −371 ± 5836
pull
Entries 82
Mean 91.76
Std Dev 0

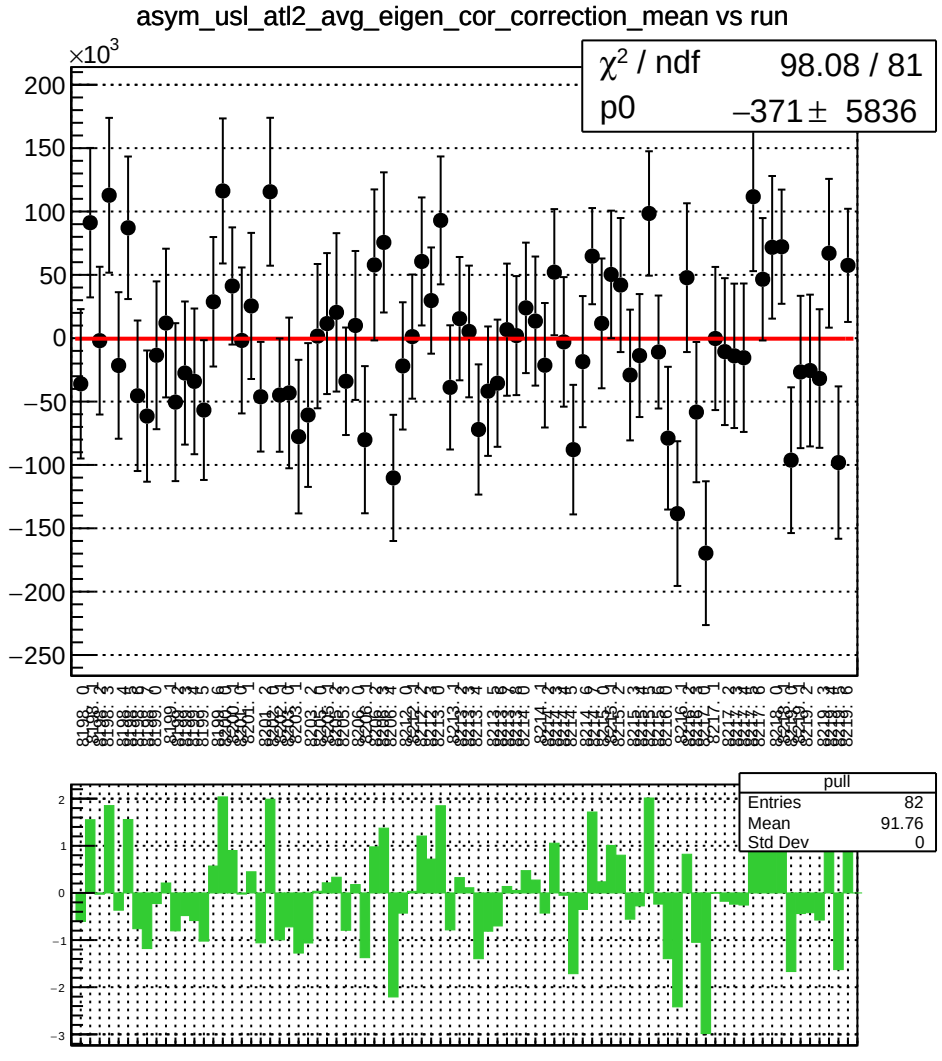

pull1D
Entries 82
Mean −0.01522
Std Dev 1.094

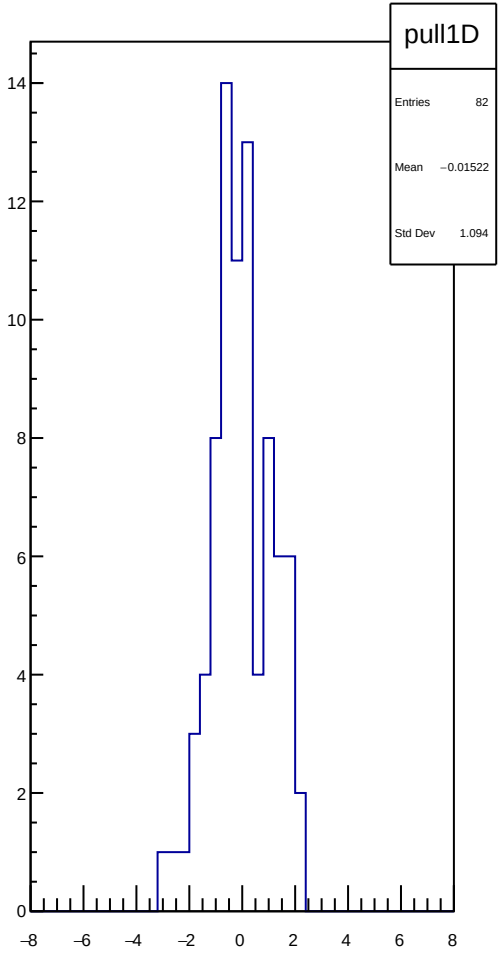

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 8639 / 81
p0 5241 ± 4.127
6200
6000
5800
5600
5400
5200
5000
4800
4600

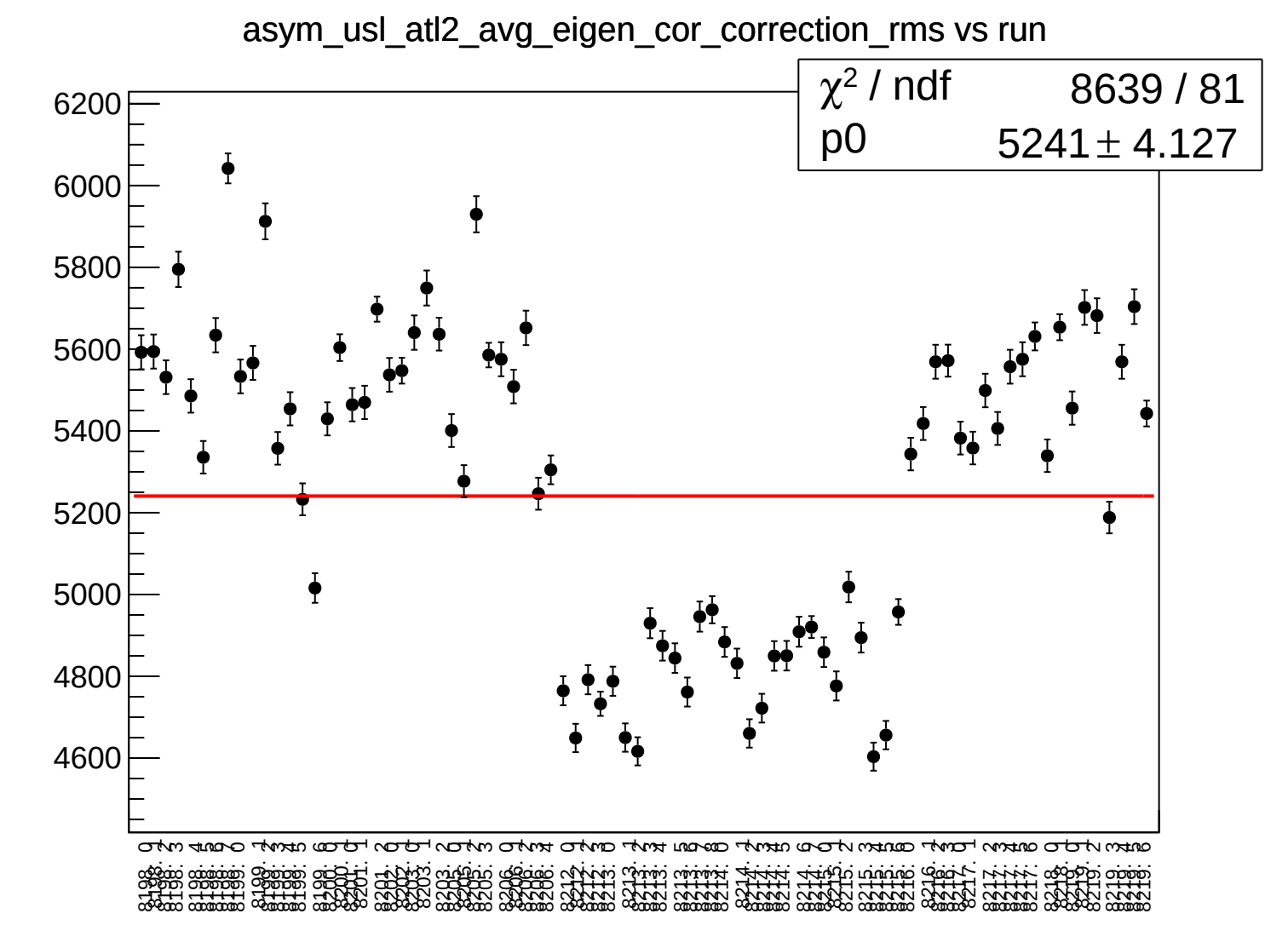

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 72.95 / 81
p0 955.9 ± 1586
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −58.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

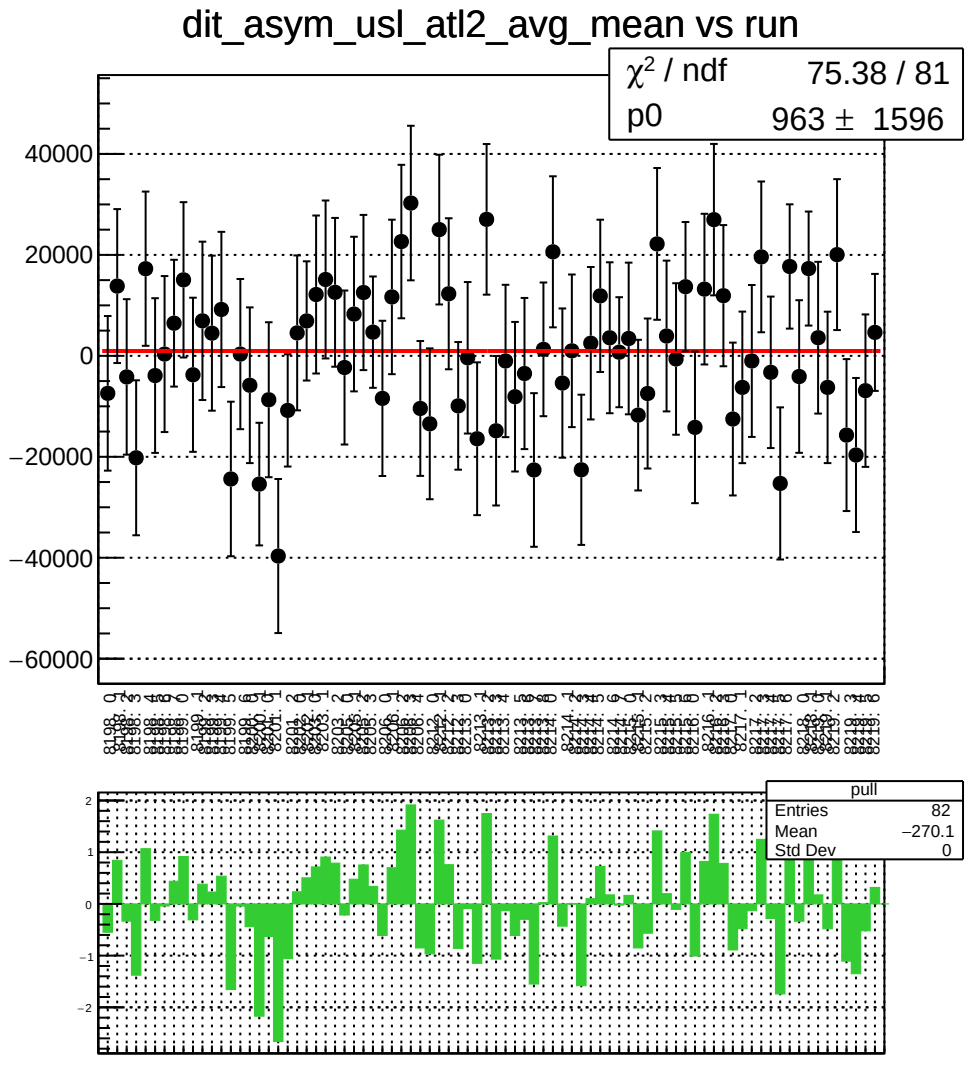

pull1D
Entries 82
Mean −0.005372
Std Dev 0.9432
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

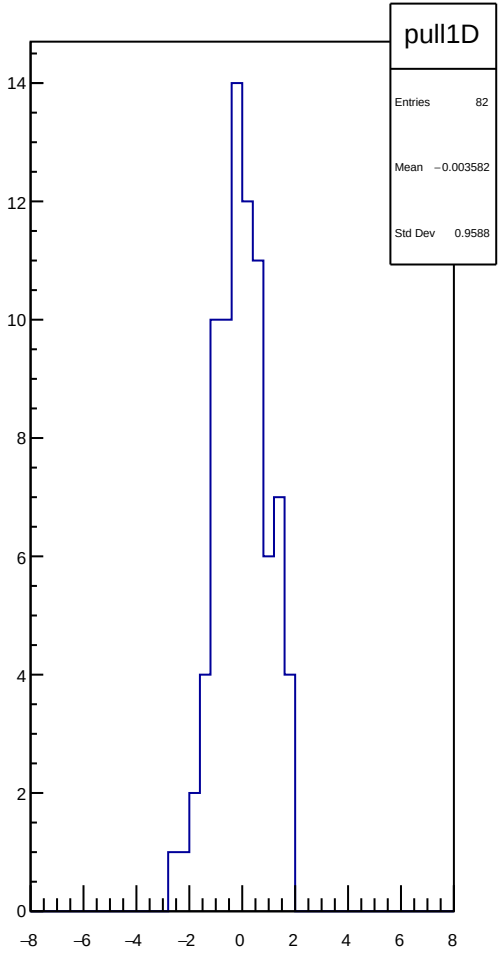

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 312.2 / 81
p0 1428 ± 1.122
1500
1480
1460
1440
1420
1400
1380

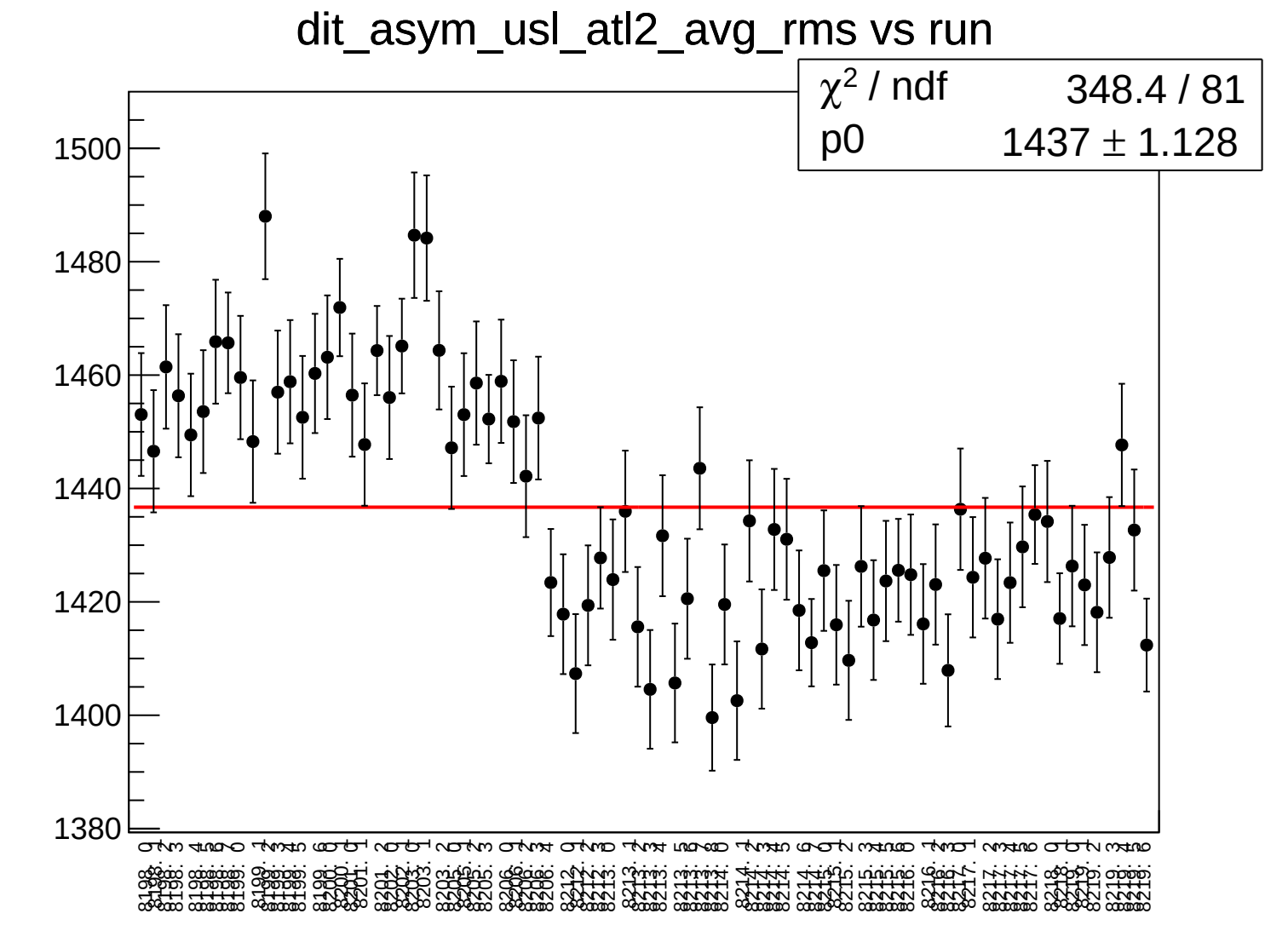

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.08 / 81
p0 −371 ± 5836
pull
Entries 82
Mean 91.76
Std Dev 0

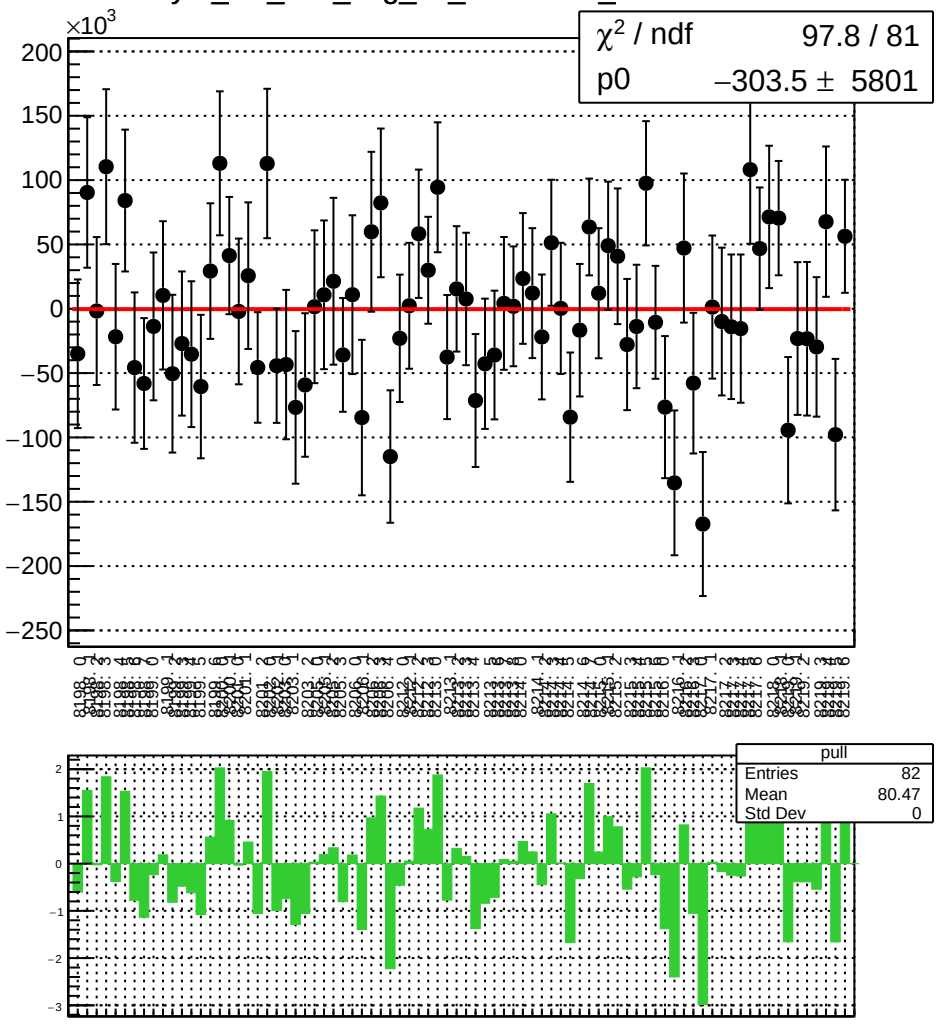

pull1D
Entries 82
Mean −0.01522
Std Dev 1.094

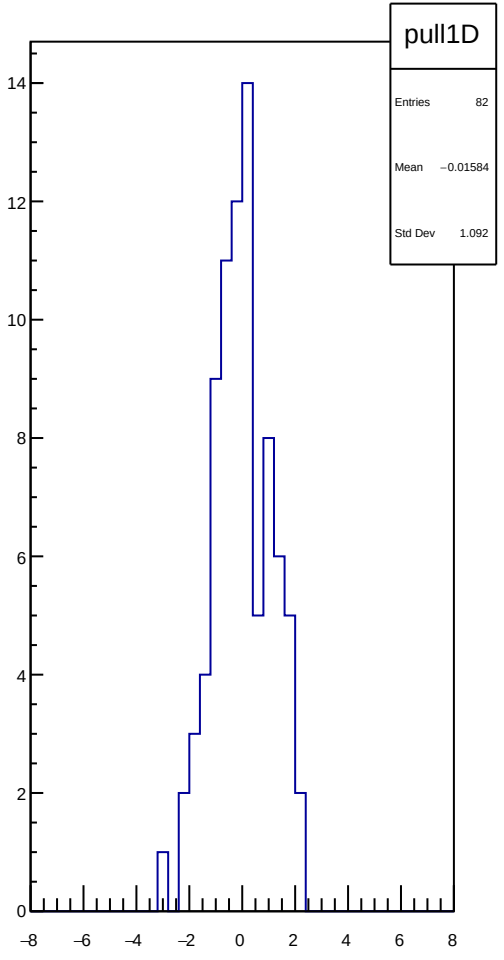

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 8639 / 81
p0 5241 ± 4.127
6200
6000
5800
5600
5400
5200
5000
4800
4600

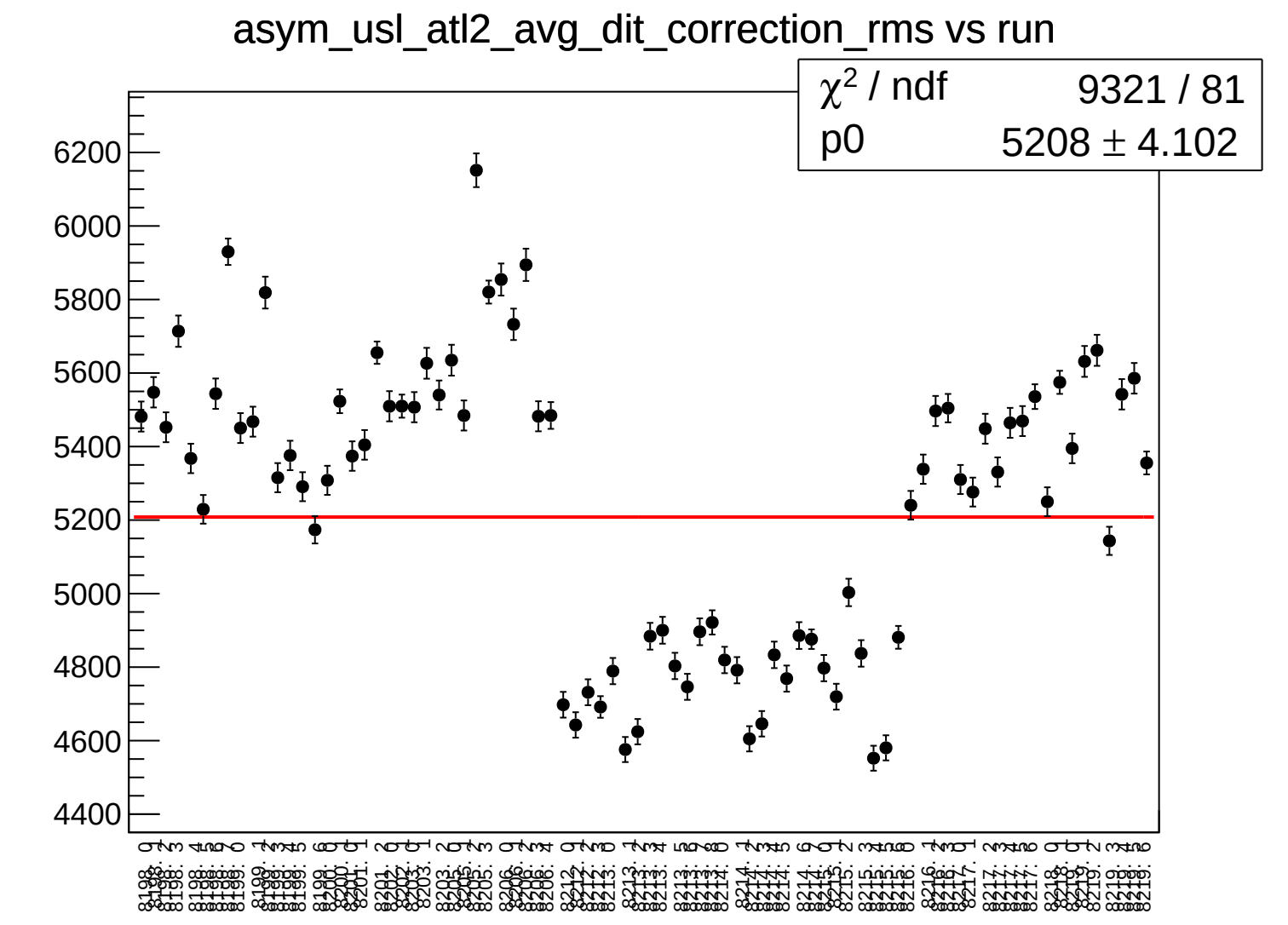

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 75.38 / 81
p0 963 ± 1596
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −270.1
Std Dev 0
2
1
0
−1
−2

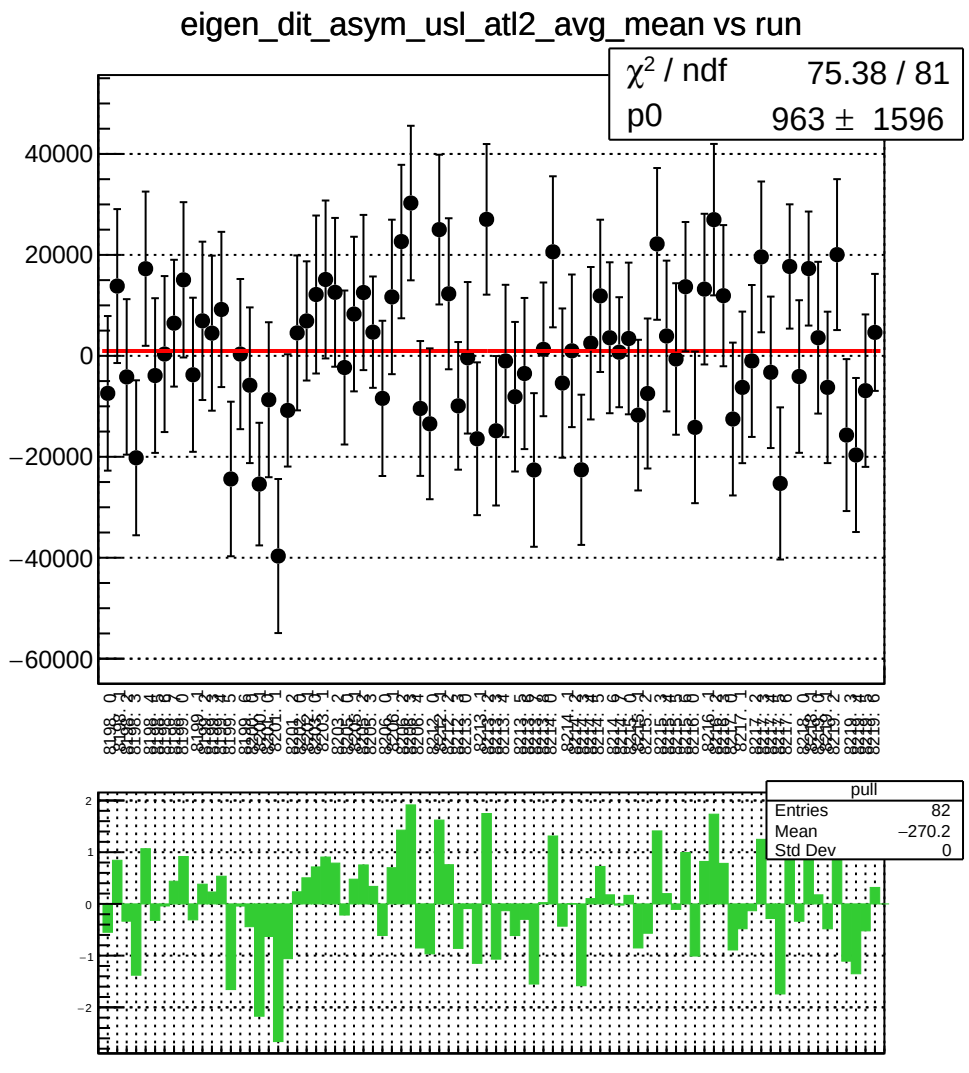

pull1D
Entries 82
Mean −0.003582
Std Dev 0.9588
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

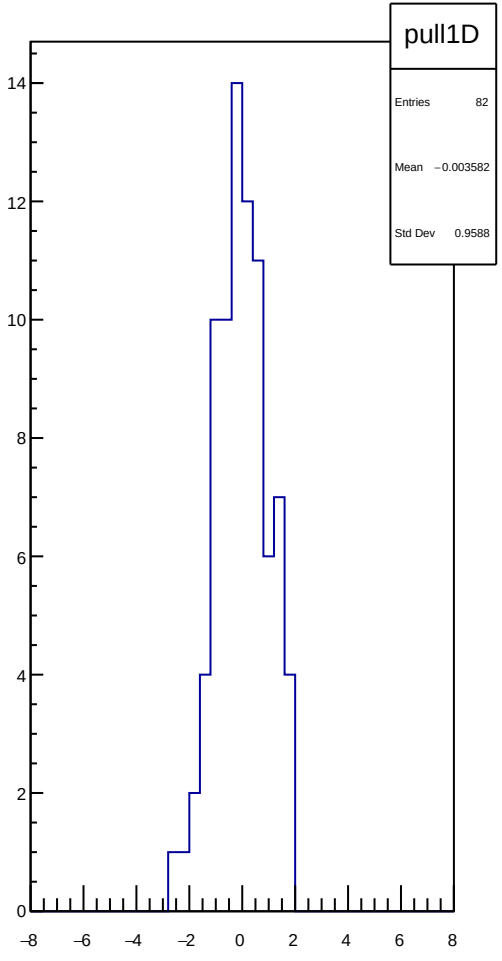

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 348.4 / 81
p0 1437 ± 1.128
1500
1480
1460
1440
1420
1400
1380

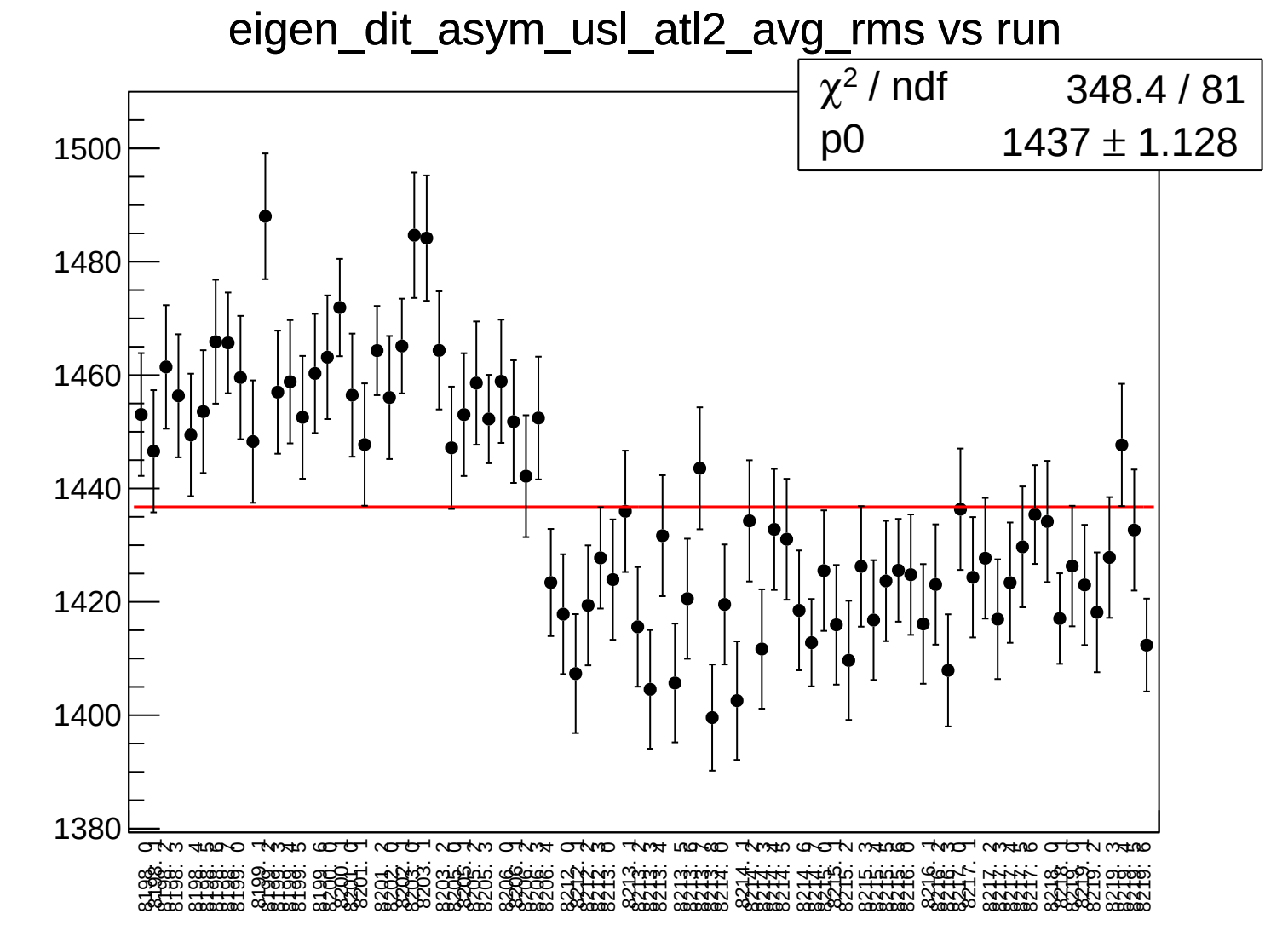

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.8 / 81
p0 −303.5 ± 5801
pull
Entries 82
Mean 80.47
Std Dev 0

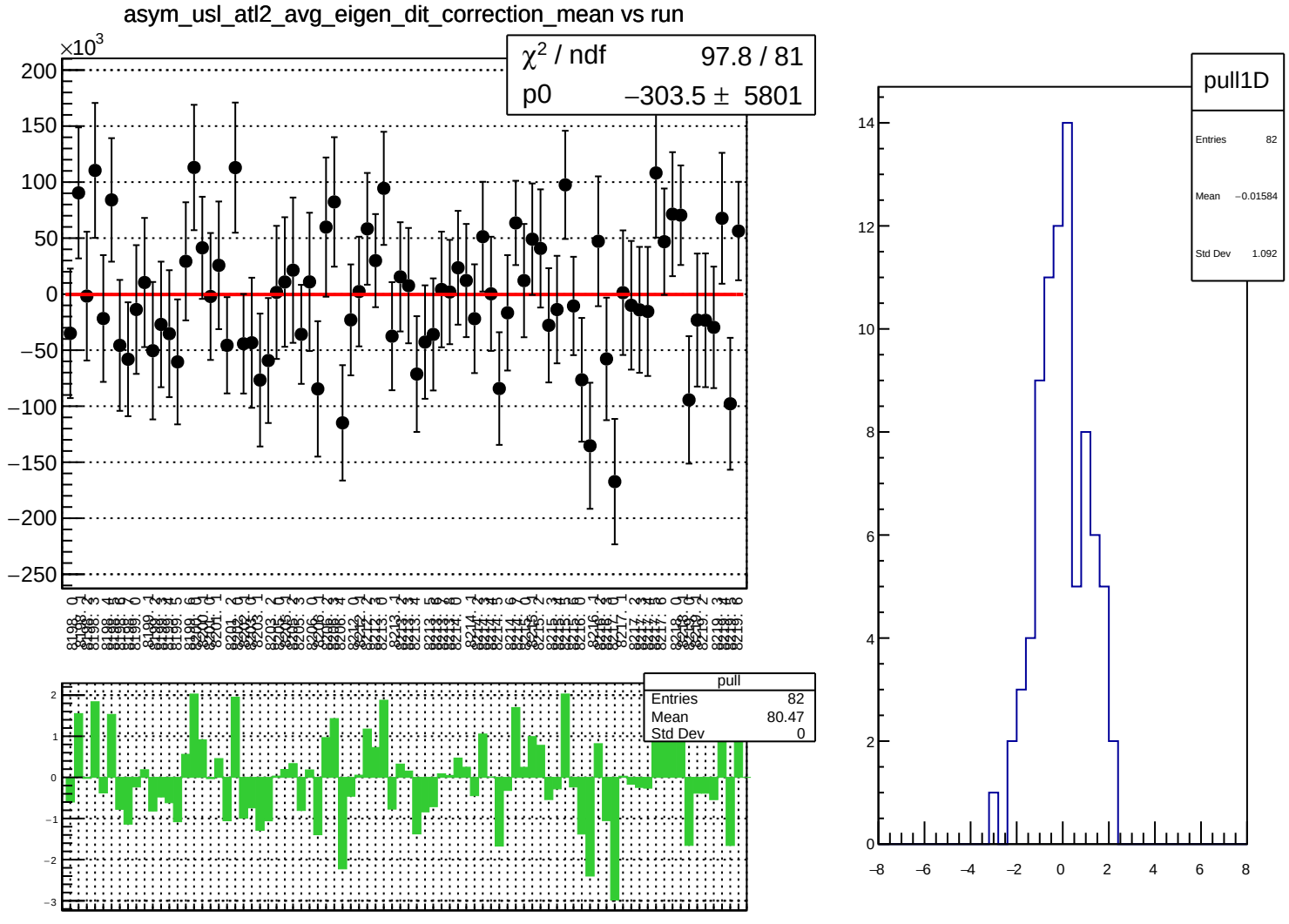

pull1D
Entries 82
Mean −0.01584
Std Dev 1.092

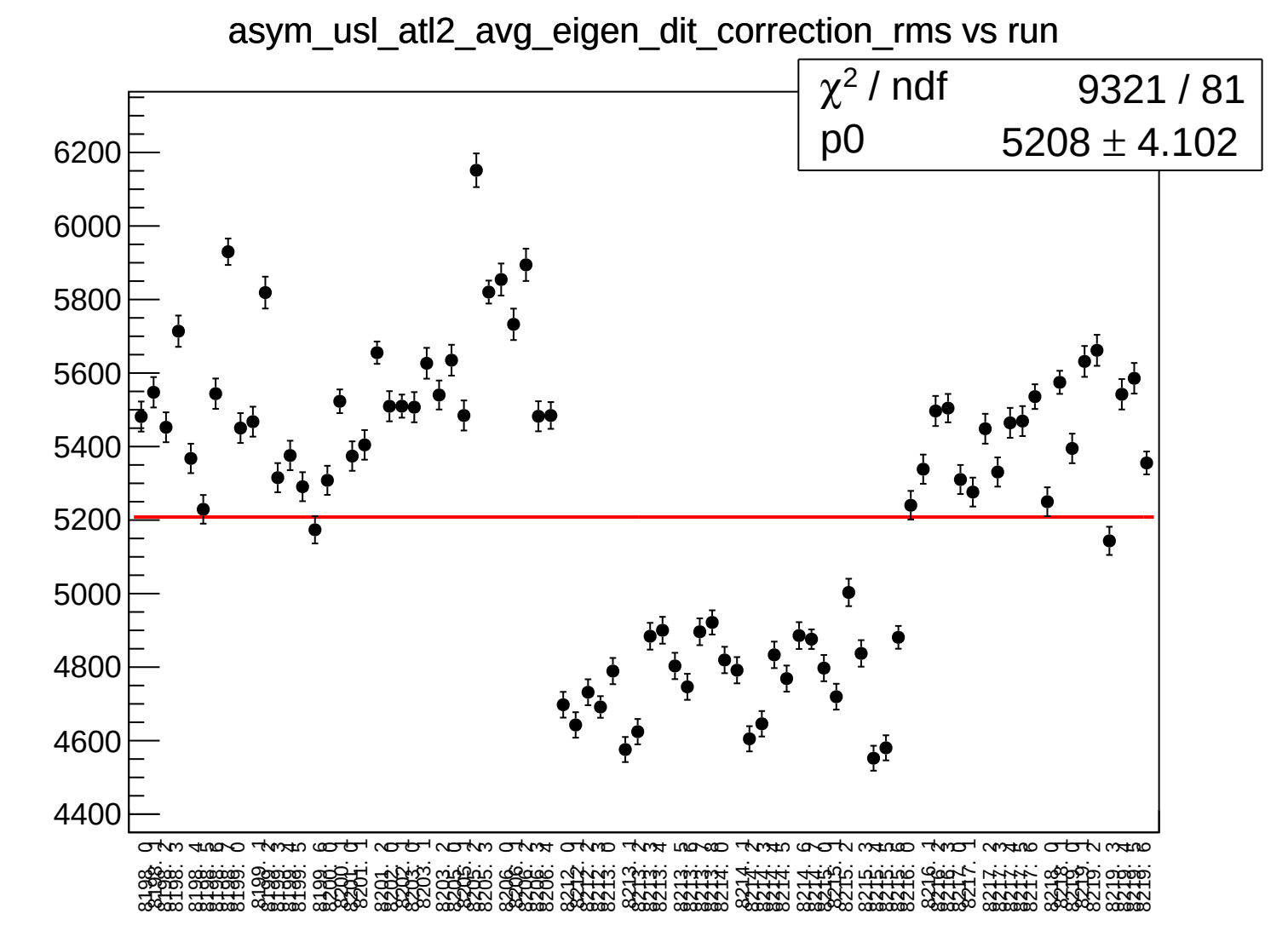

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 9321 / 81
p0 5208 ± 4.102
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

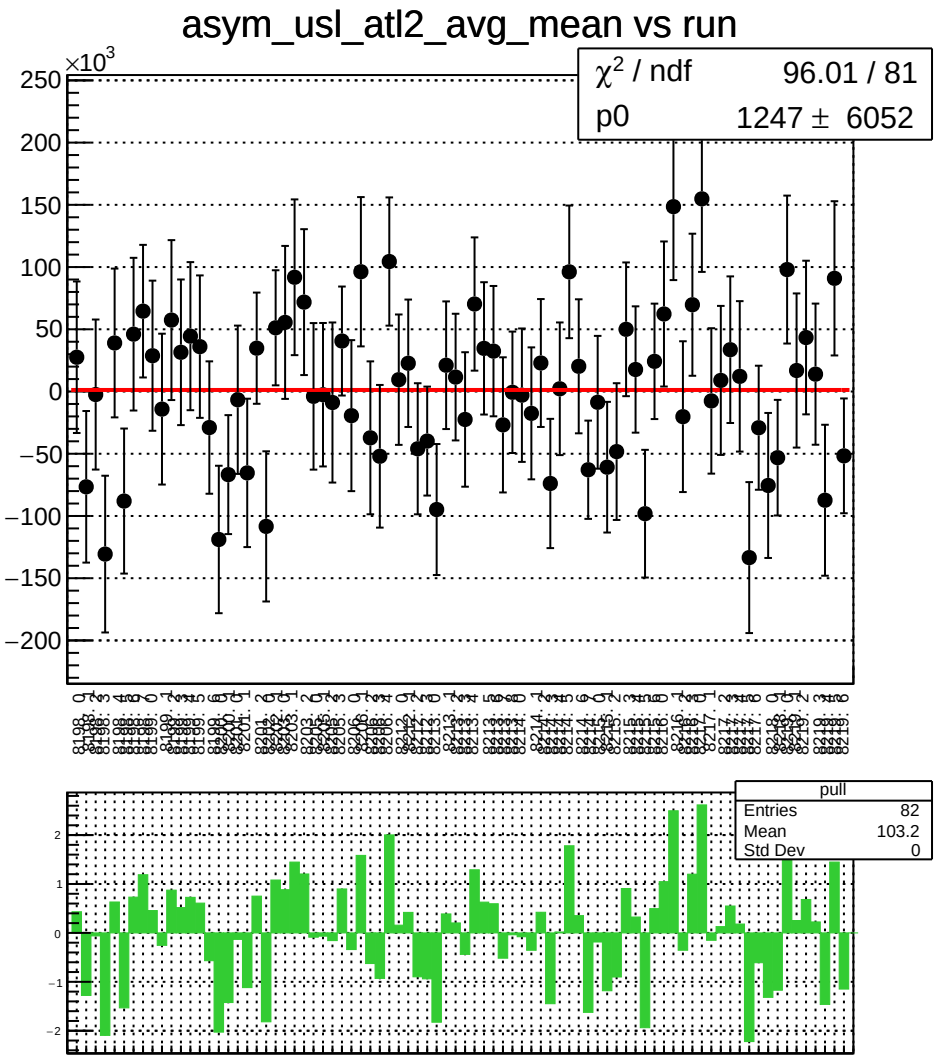

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 75.38 / 81
p0 963 ± 1596
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −270.2
Std Dev 0
2
1
0
−1
−2

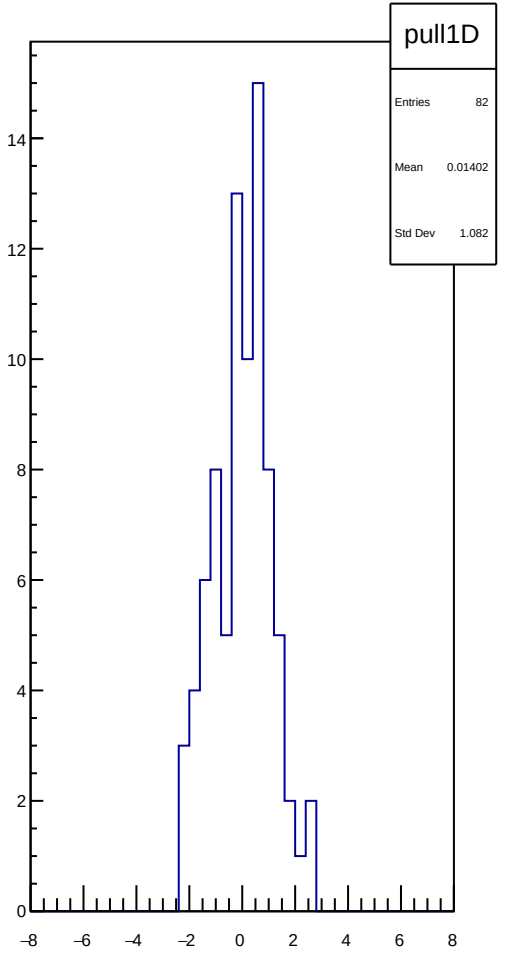

pull1D
Entries 82
Mean −0.003582
Std Dev 0.9588
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

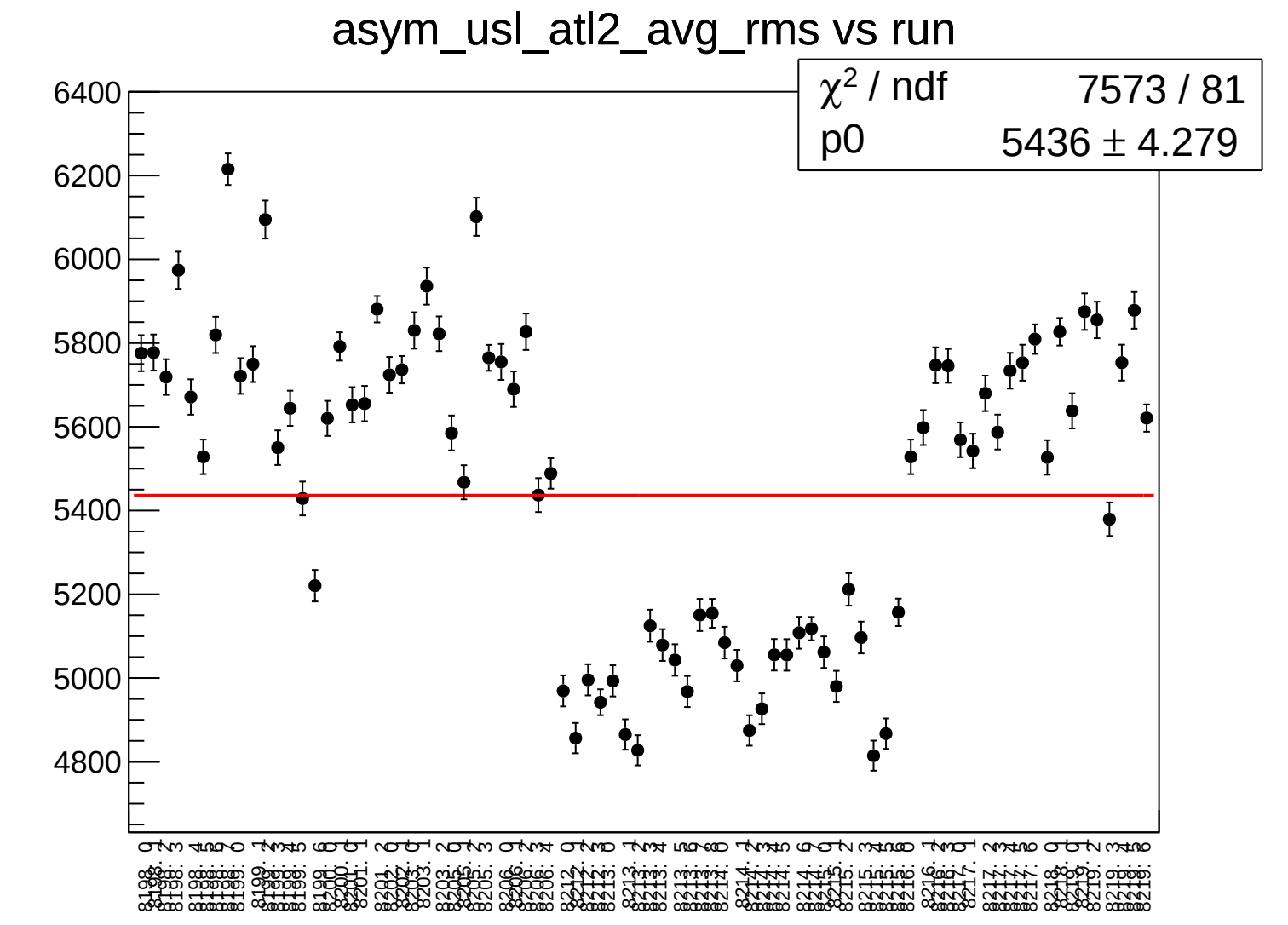

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 348.4 / 81
p0 1437 ± 1.128
1500
1480
1460
1440
1420
1400
1380

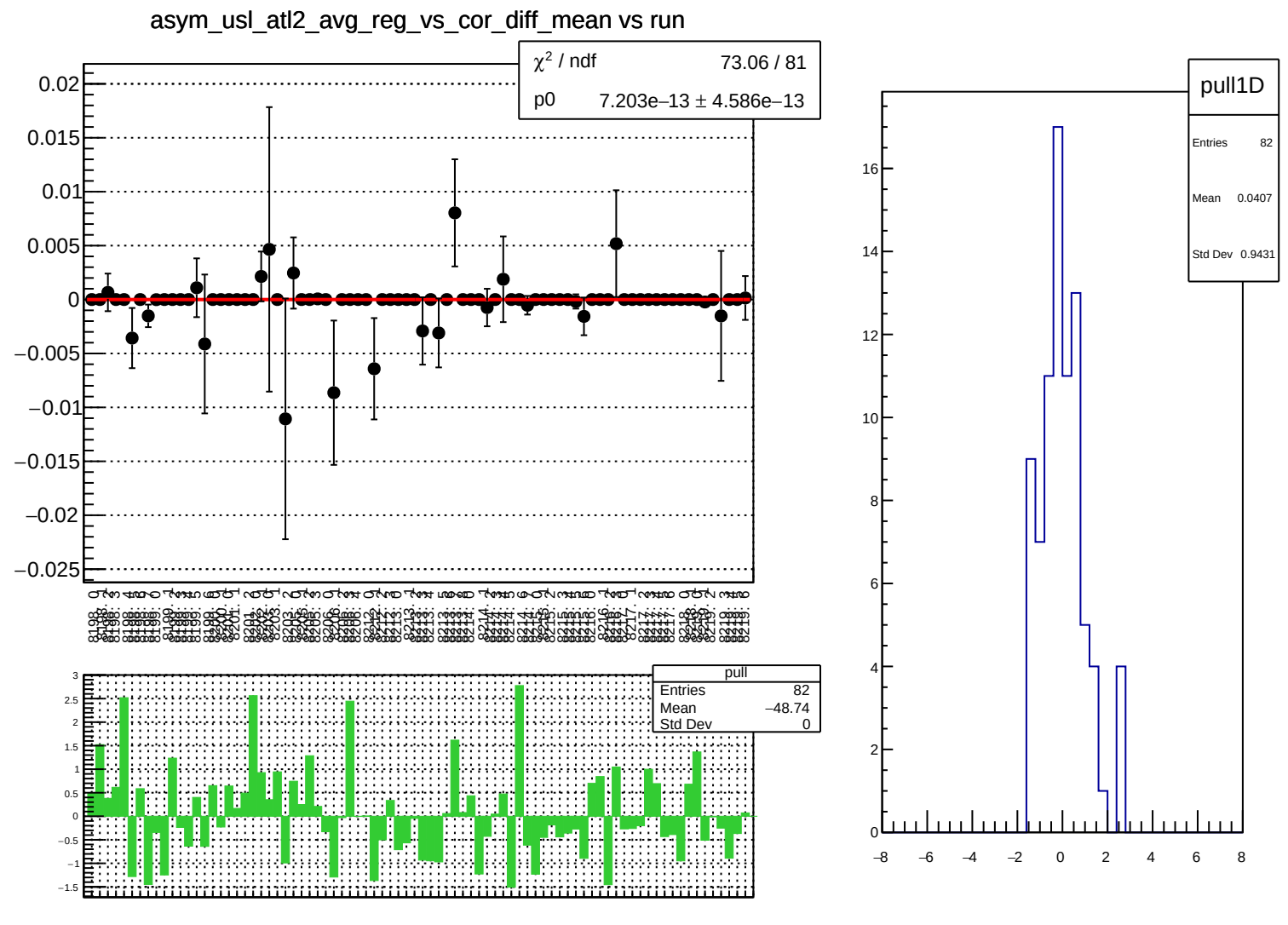

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.8 / 81
p0 −303.5 ± 5801
×10³
pull
Entries 82
Mean 80.47
Std Dev 0
pull1D
Entries 82
Mean −0.01584
Std Dev 1.092

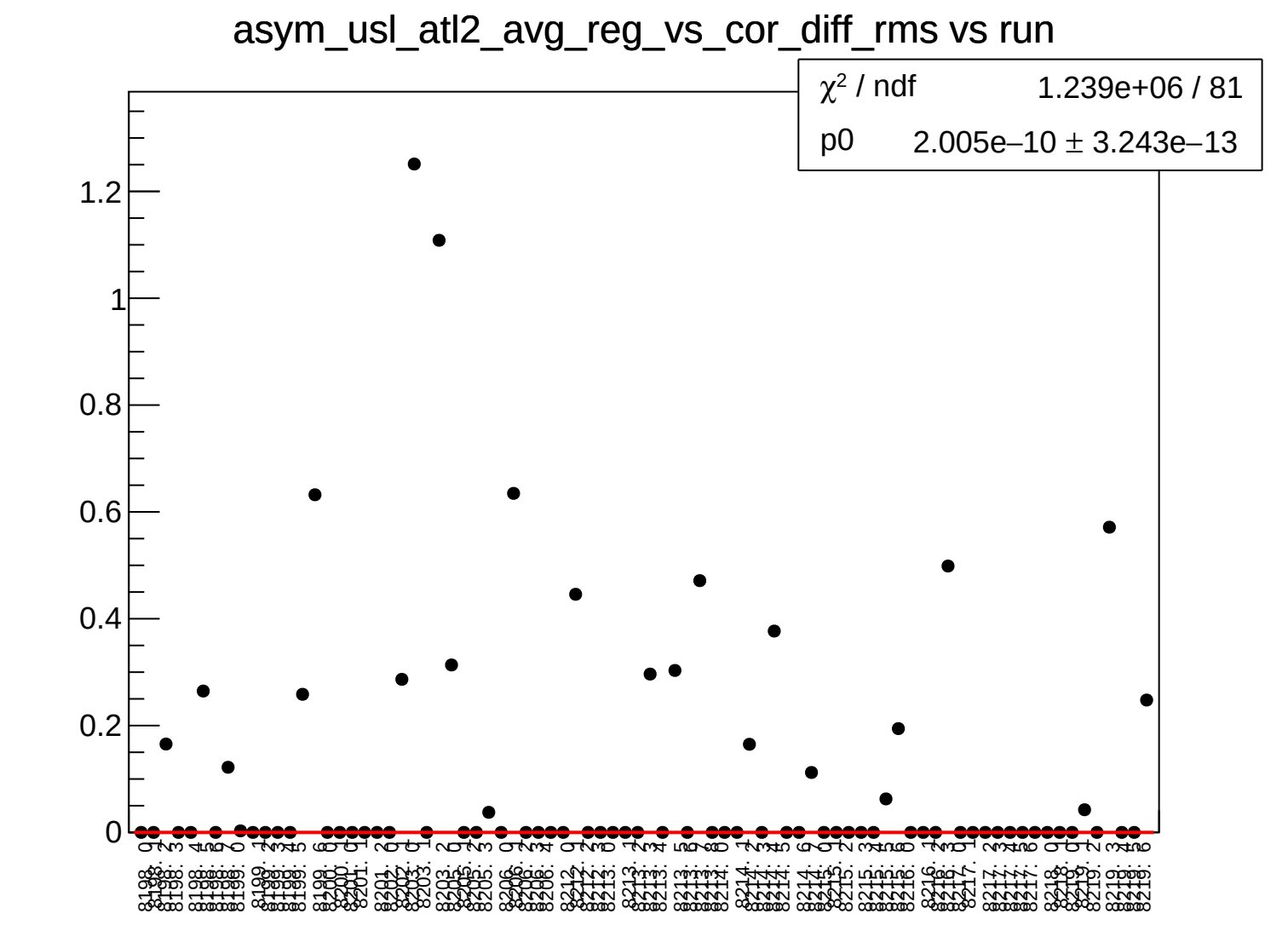

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 9321 / 81
p0 5208 ± 4.102
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

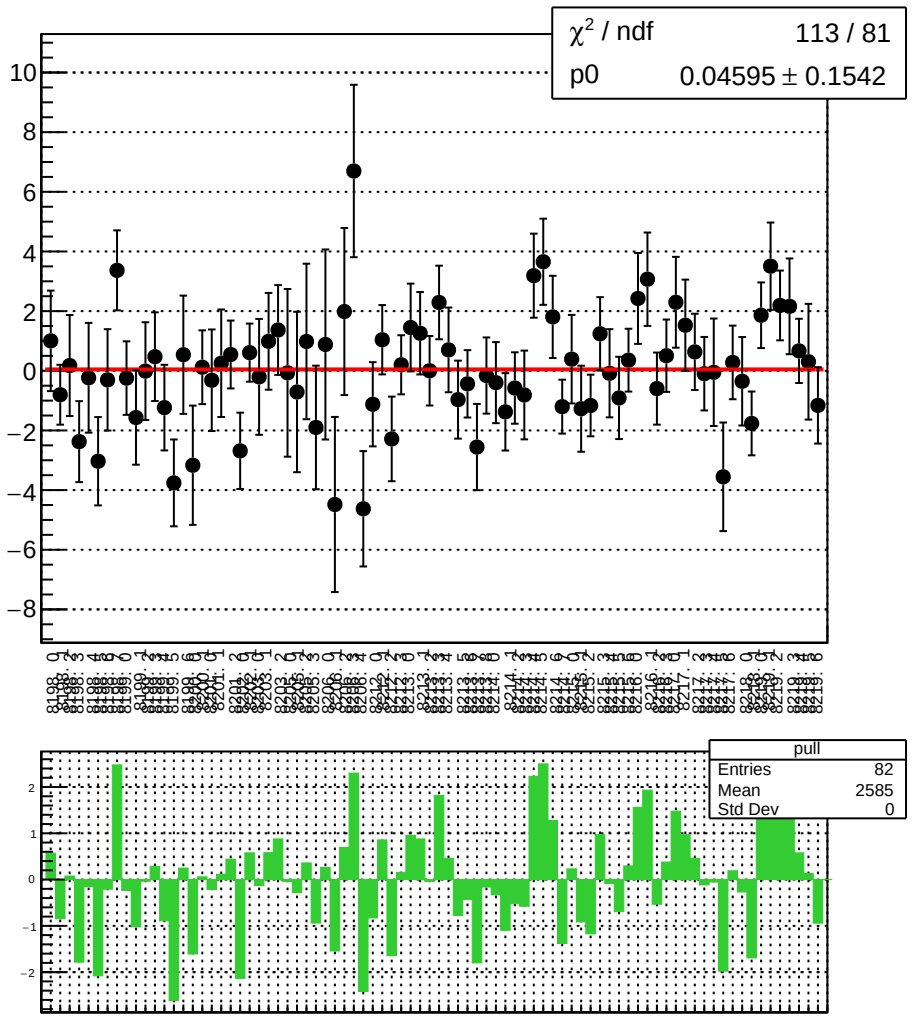

asym_usl_atl2_avg_mean vs run
χ² / ndf 96.01 / 81
p0 1247 ± 6052
×10³
pull
Entries 82
Mean 103.2
Std Dev 0

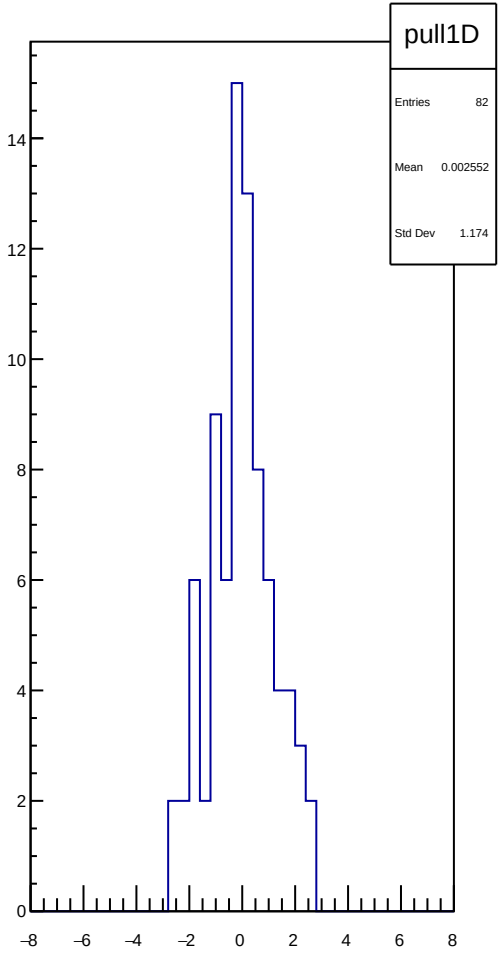

pull1D
Entries 82
Mean 0.01402
Std Dev 1.082

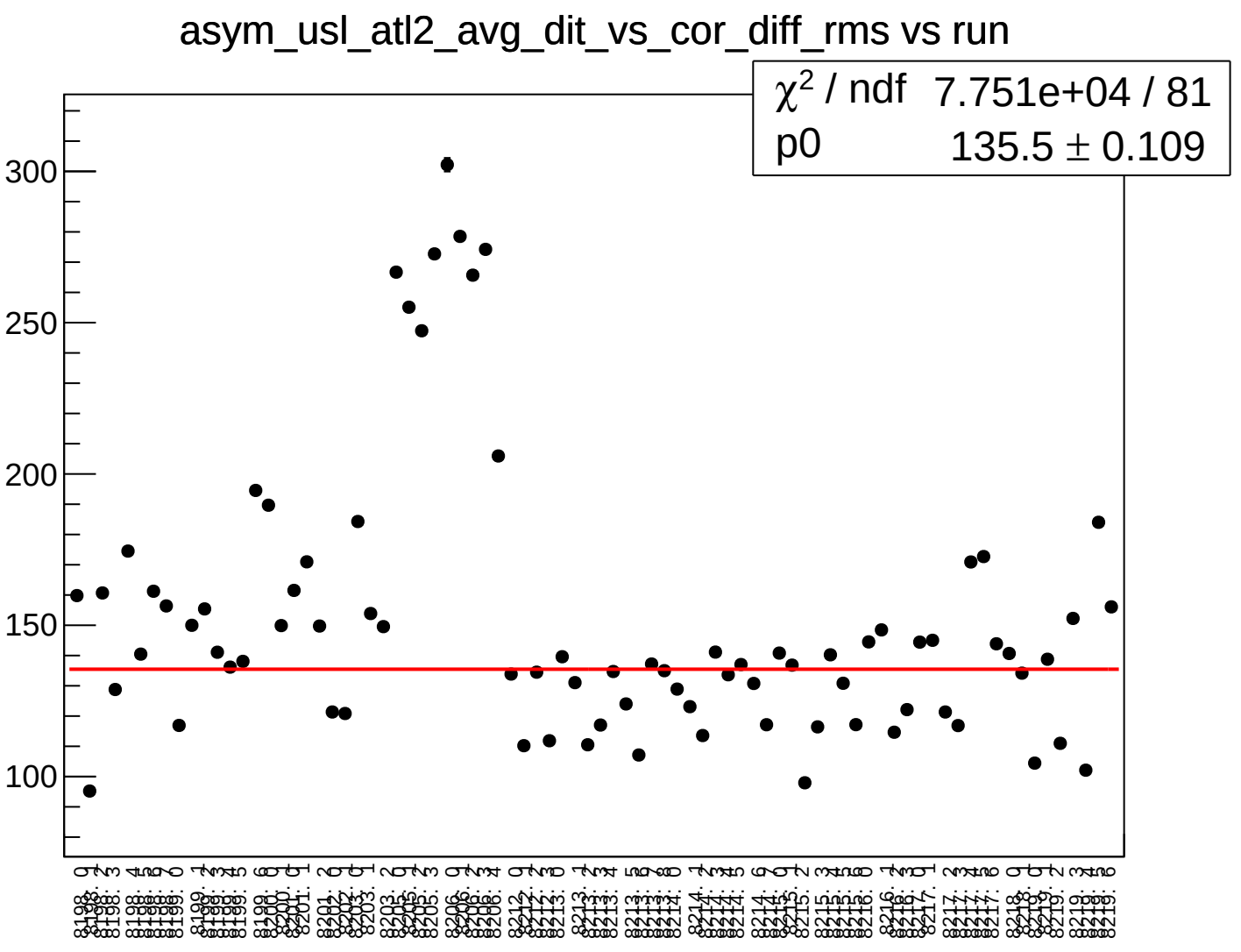

asym_usl_atl2_avg_rms vs run
χ² / ndf 7573 / 81
p0 5436 ± 4.279
6400
6200
6000
5800
5600
5400
5200
5000
4800

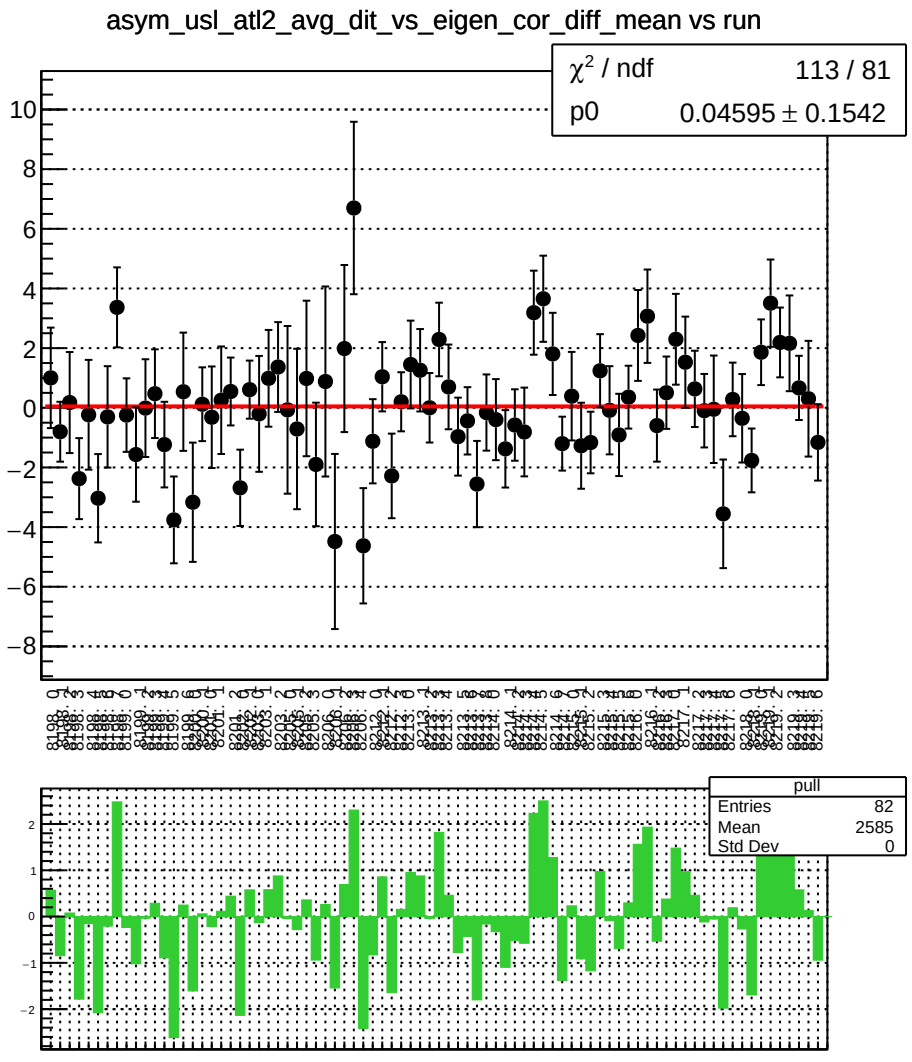

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.06 / 81
p0 7.203e−13 ± 4.586e−13
pull
Entries 82
Mean −48.74
Std Dev 0
pull1D
Entries 82
Mean 0.0407
Std Dev 0.9431

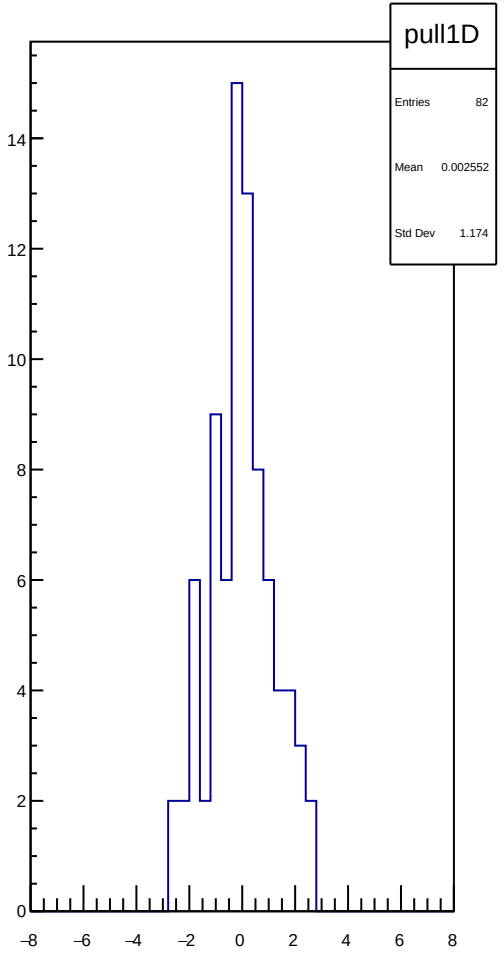

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.239e+06 / 81
p0 2.005e−10 ± 3.243e−13
1.2
1
0.8
0.6
0.4
0.2
0

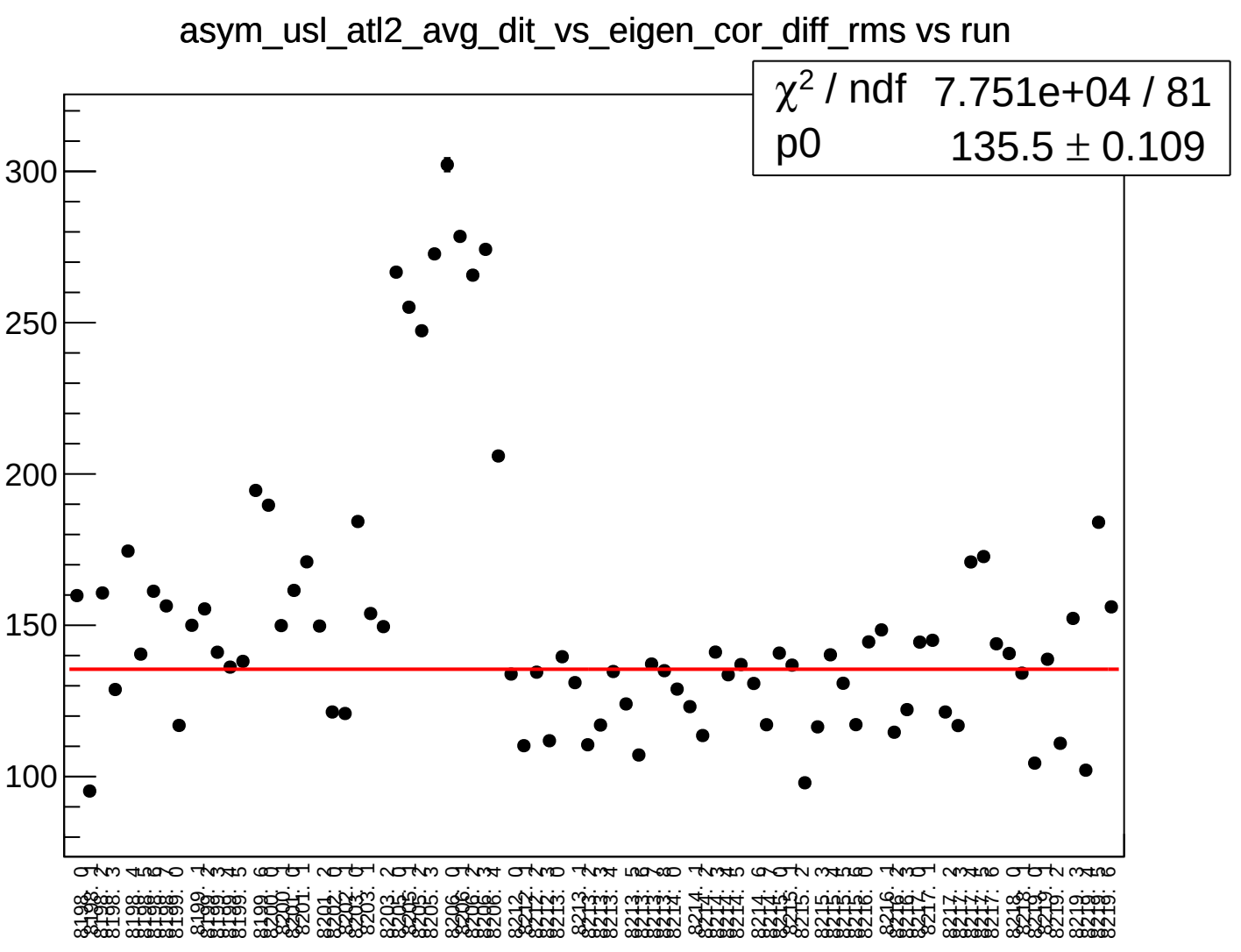

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 113 / 81
p0 0.04595 ± 0.1542
pull
Entries 82
Mean 2585
Std Dev 0

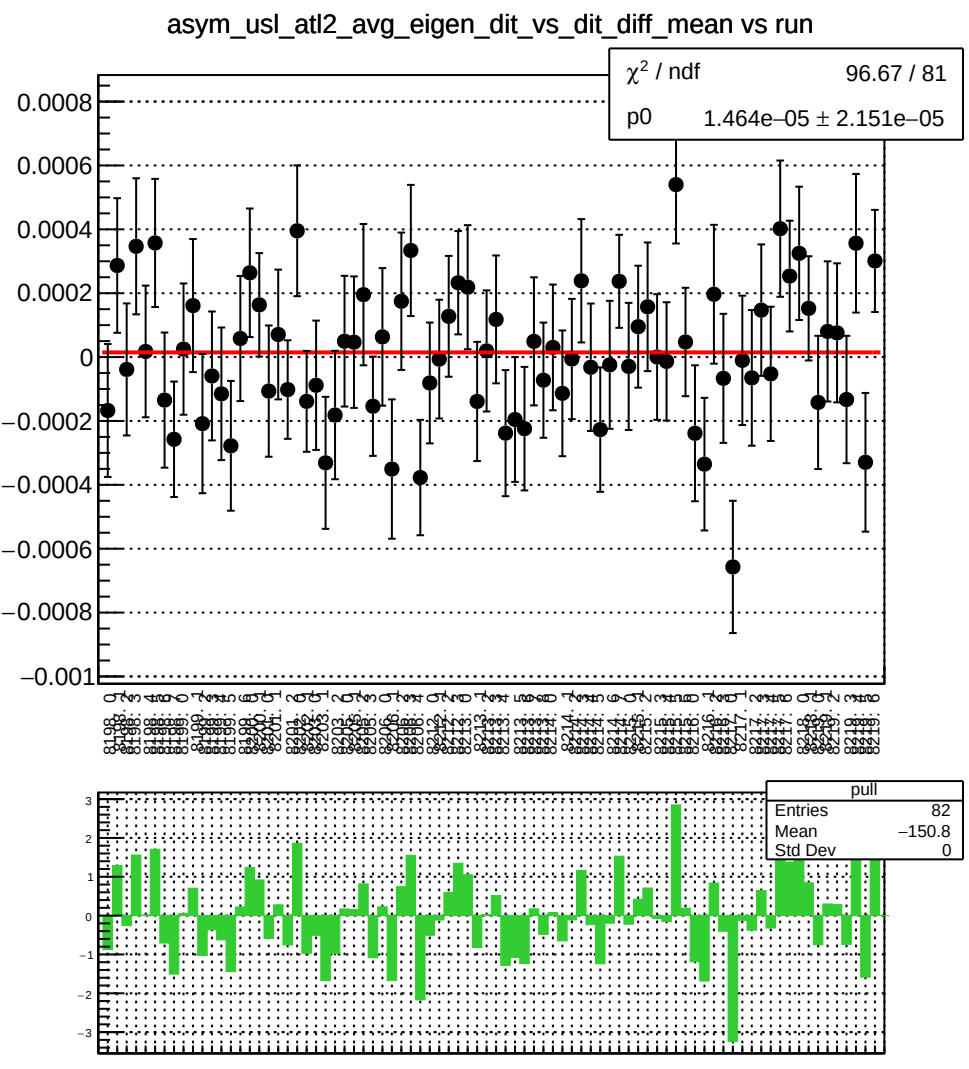

pull1D
Entries 82
Mean 0.002552
Std Dev 1.174

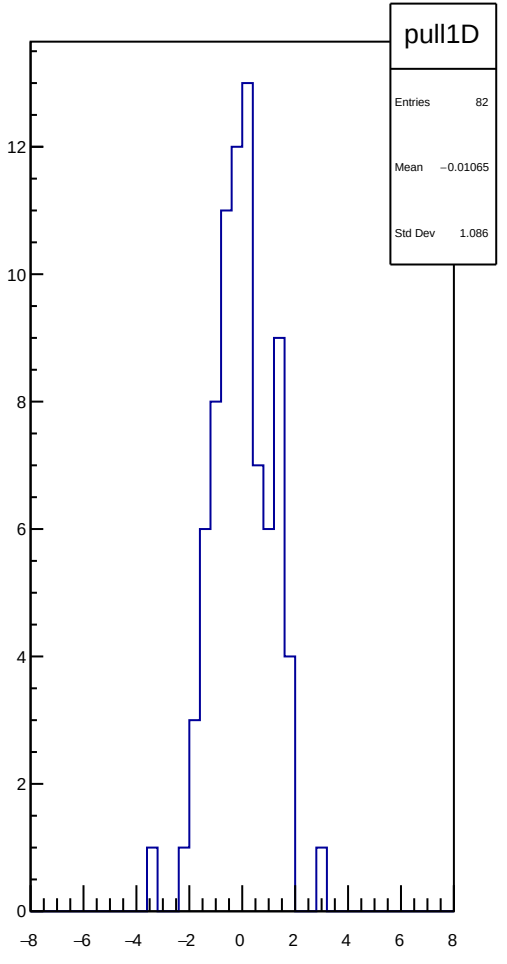

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.751e+04 / 81
p0 135.5 ± 0.109
300
250
200
150
100

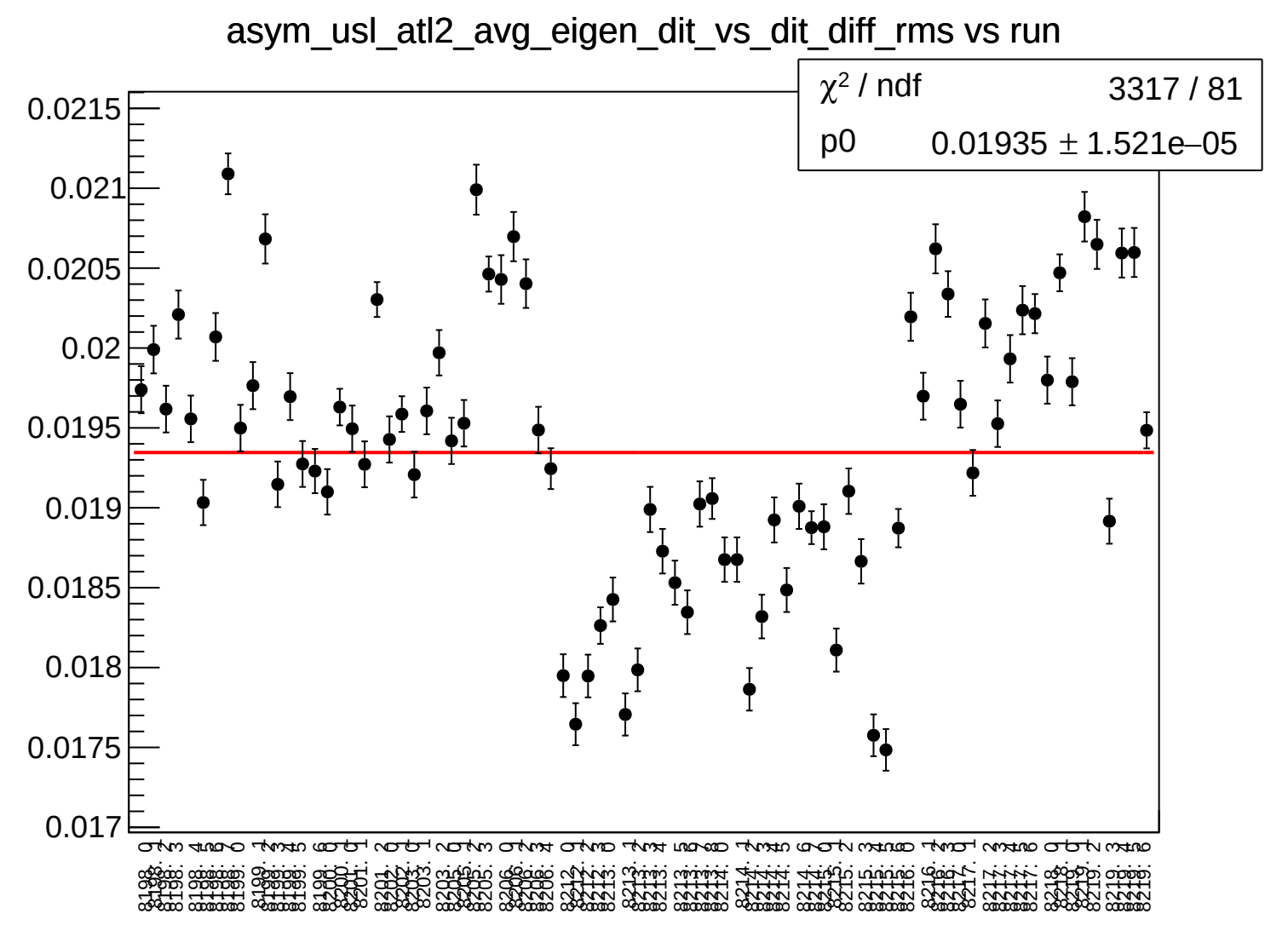

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113 / 81
p0 0.04595 ± 0.1542
pull
Entries 82
Mean 2585
Std Dev 0

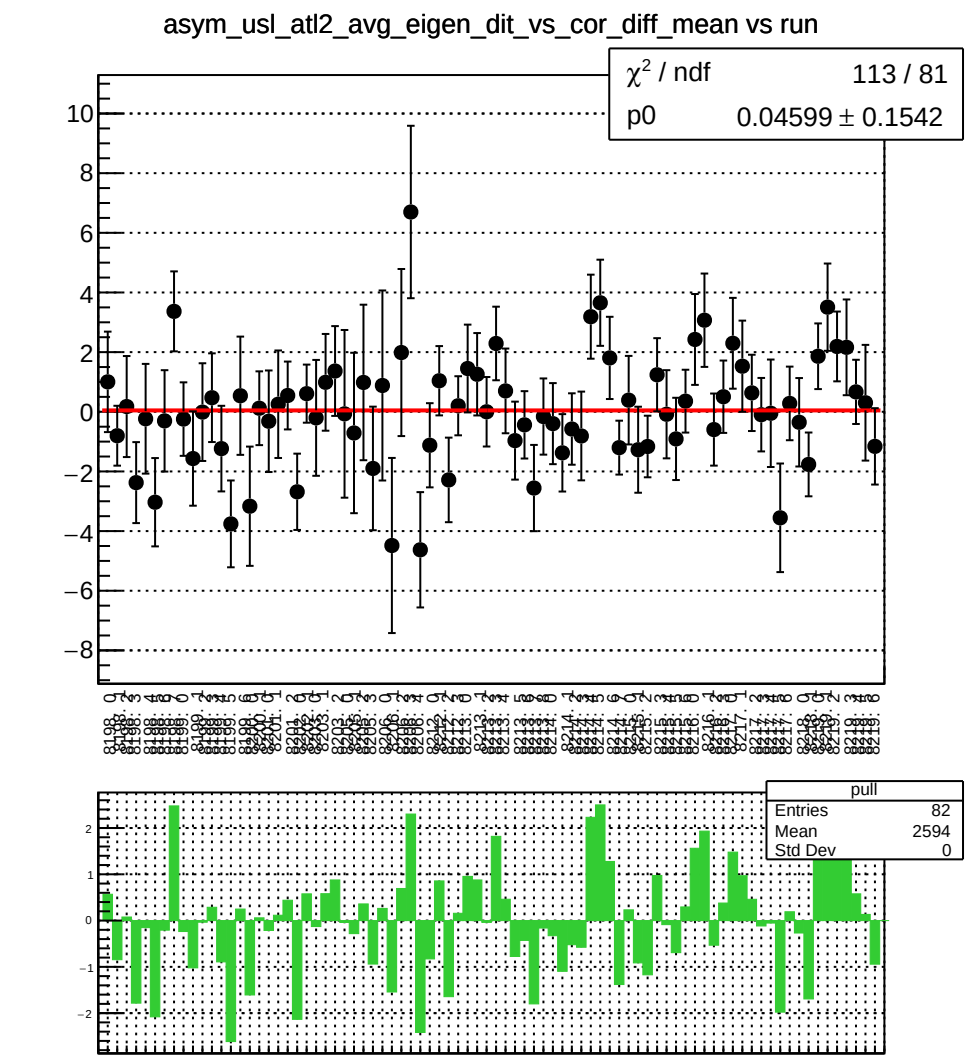

pull1D
Entries 82
Mean 0.002552
Std Dev 1.174

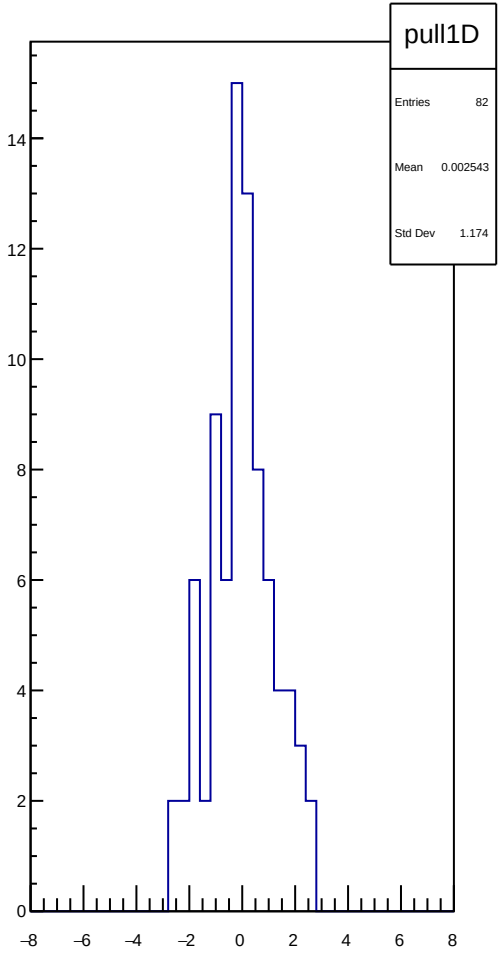

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.751e+04 / 81
p0 135.5 ± 0.109
300
250
200
150
100

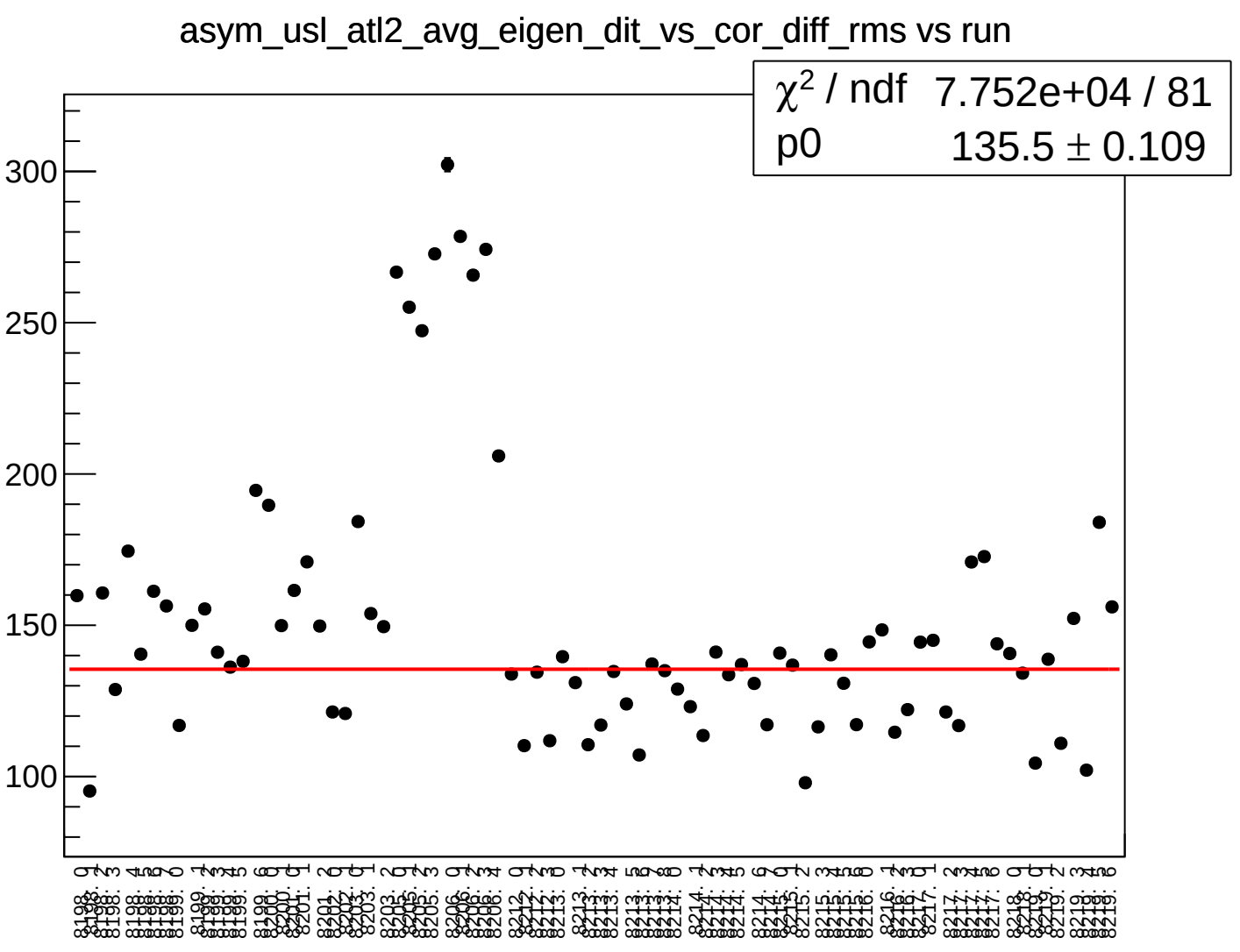

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 96.67 / 81
p0 1.464e−05 ± 2.151e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 82
Mean −150.8
Std Dev 0
3
2
1
0
−1
−2
−3

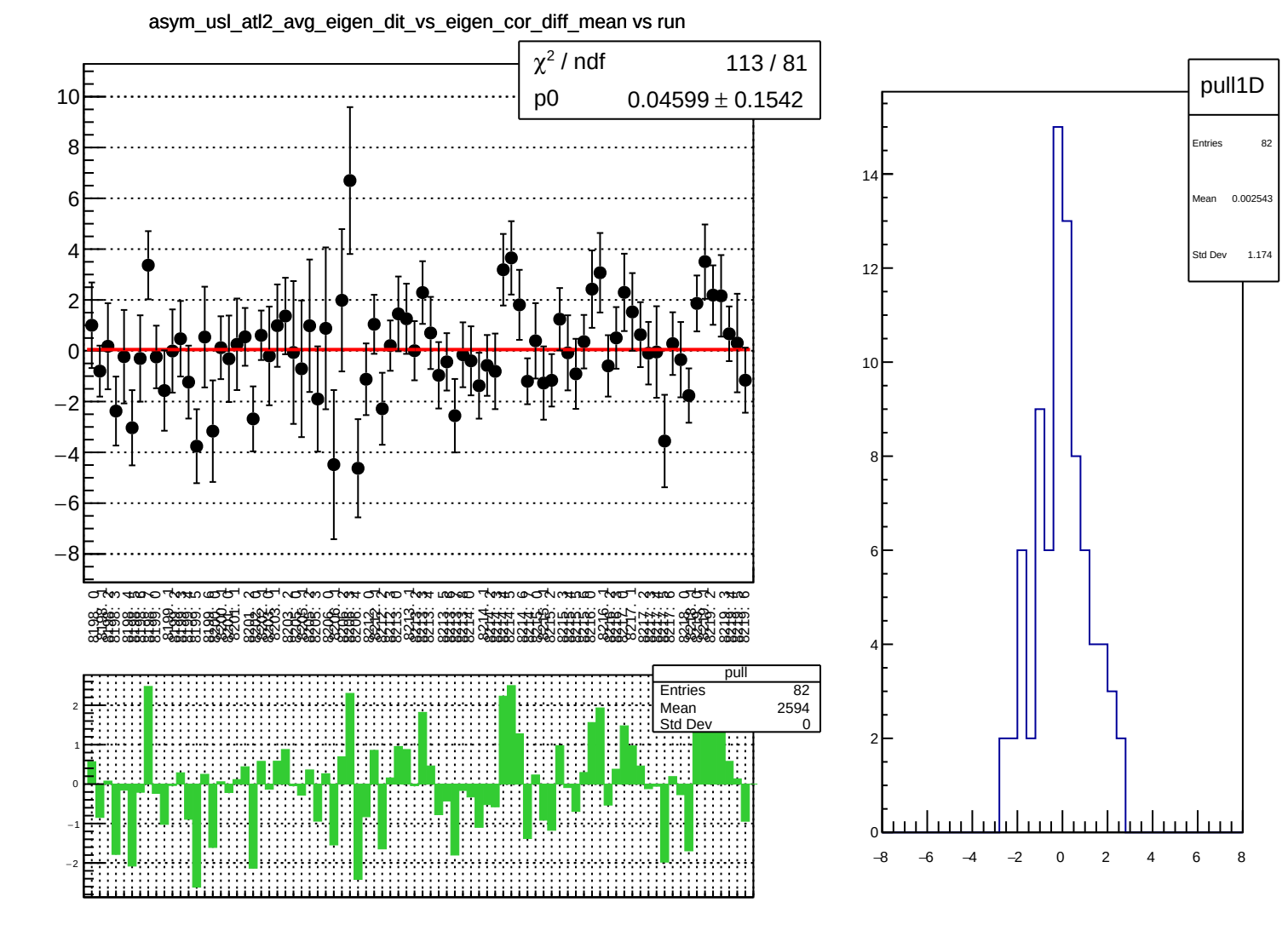

pull1D
Entries 82
Mean −0.01065
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

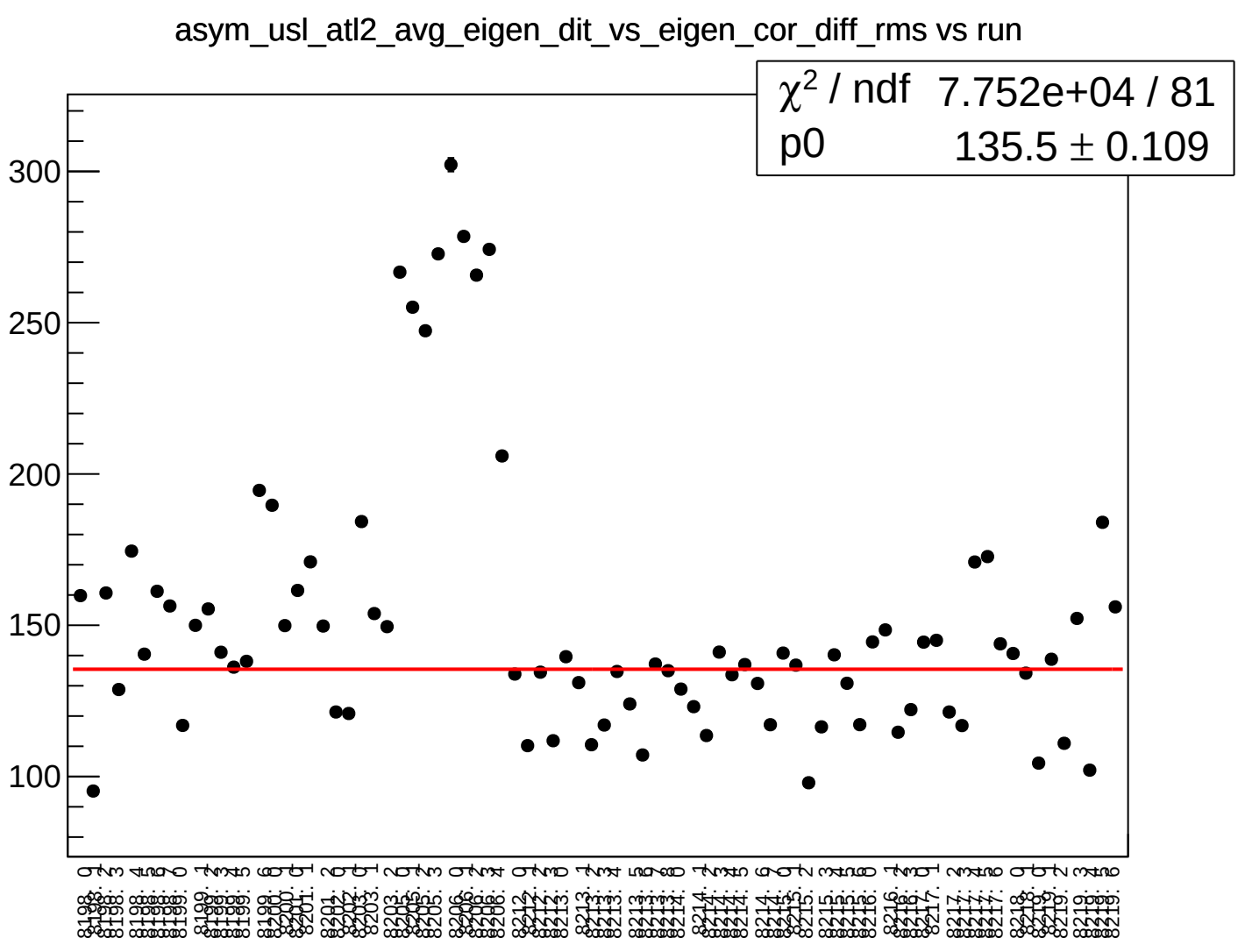

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3317 / 81
p0 0.01935 ± 1.521e−05
0.0215
0.021
0.0205
0.02
0.0195
0.019
0.0185
0.018
0.0175
0.017

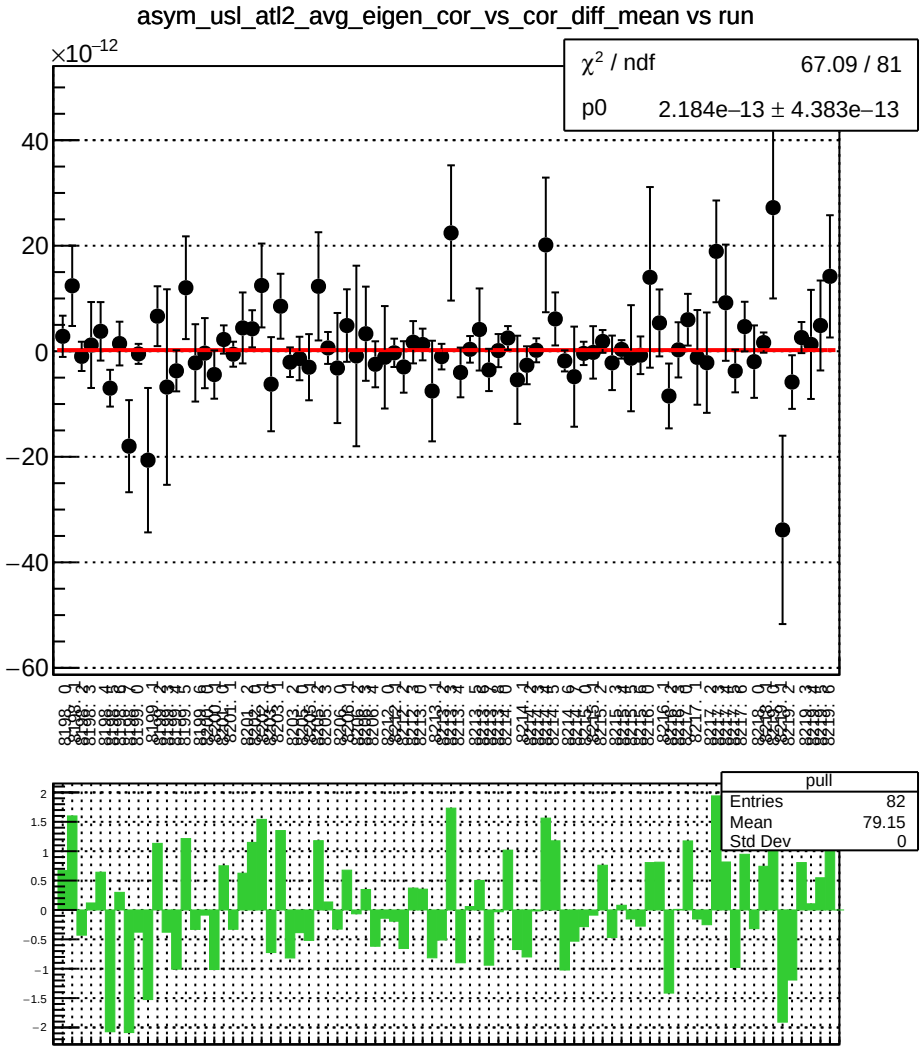

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113 / 81
p0 0.04599 ± 0.1542
pull
Entries 82
Mean 2594
Std Dev 0

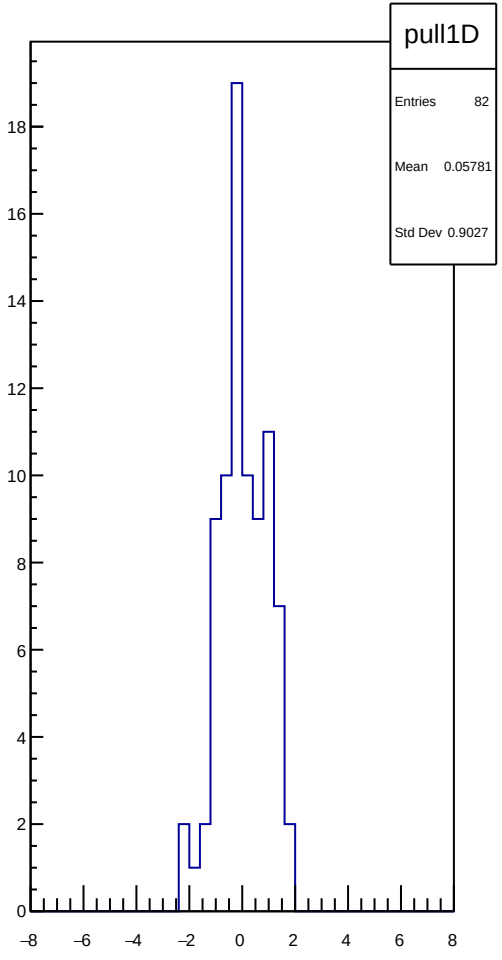

pull1D
Entries 82
Mean 0.002543
Std Dev 1.174

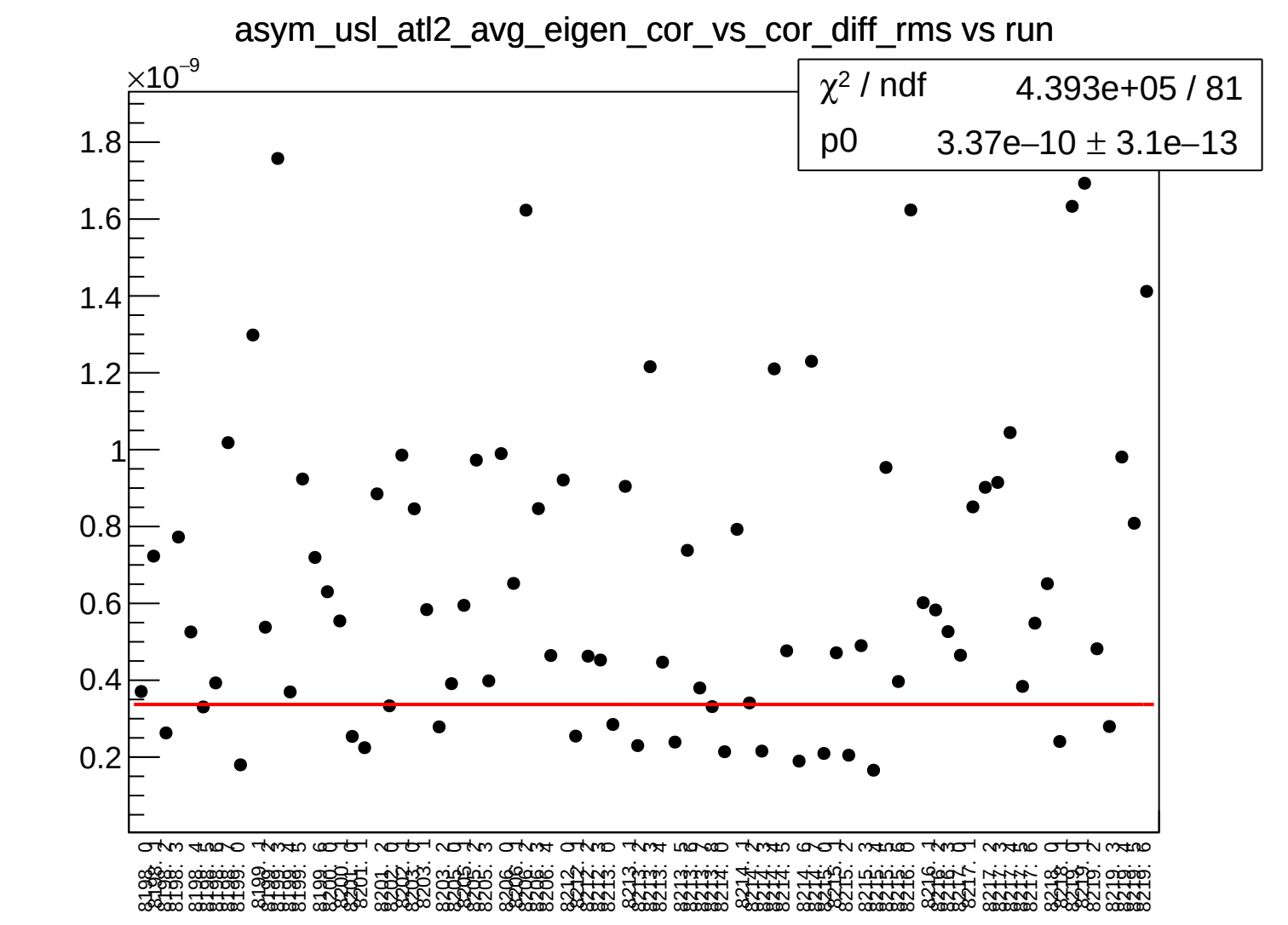

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.752e+04 / 81
p0 135.5 ± 0.109
300
250
200
150
100

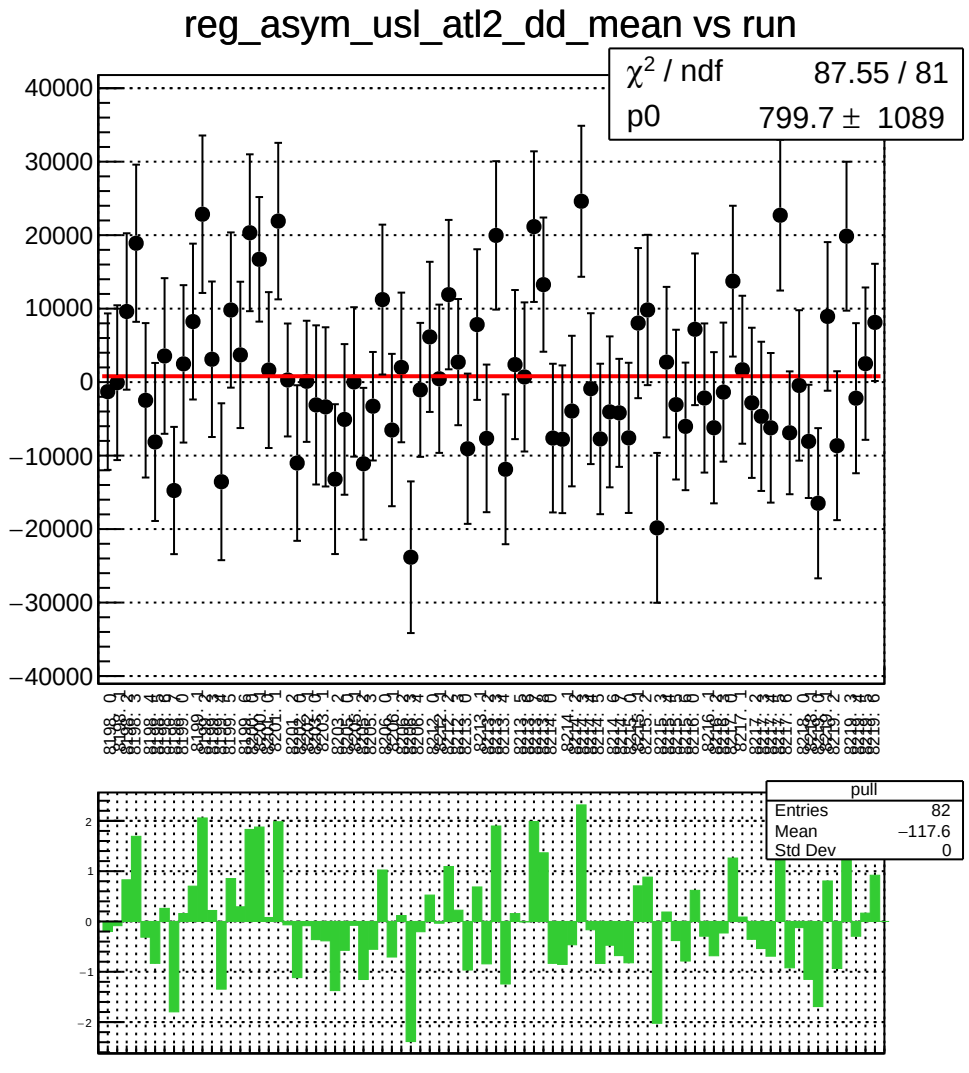

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113 / 81
p0 0.04599 ± 0.1542
pull
Entries 82
Mean 2594
Std Dev 0
pull1D
Entries 82
Mean 0.002543
Std Dev 1.174

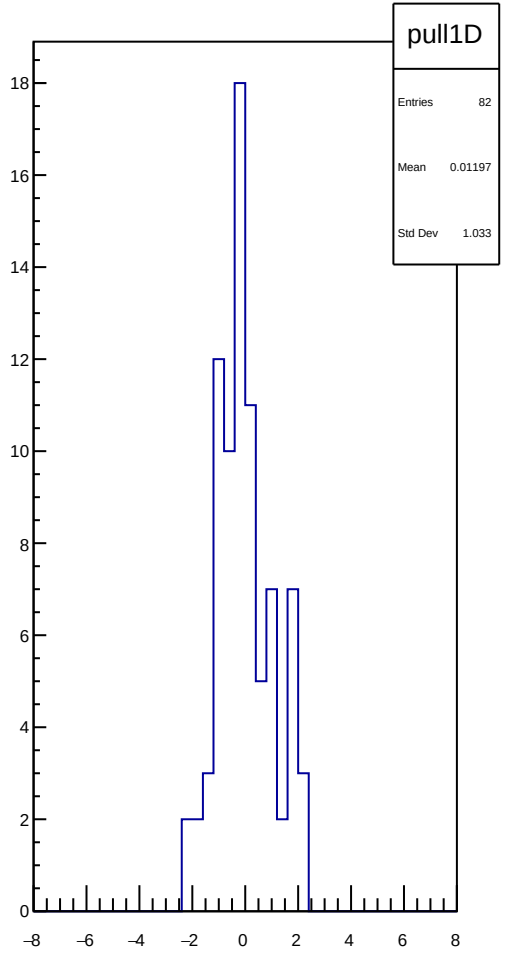

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.752e+04 / 81
p0 135.5 ± 0.109
300
250
200
150
100

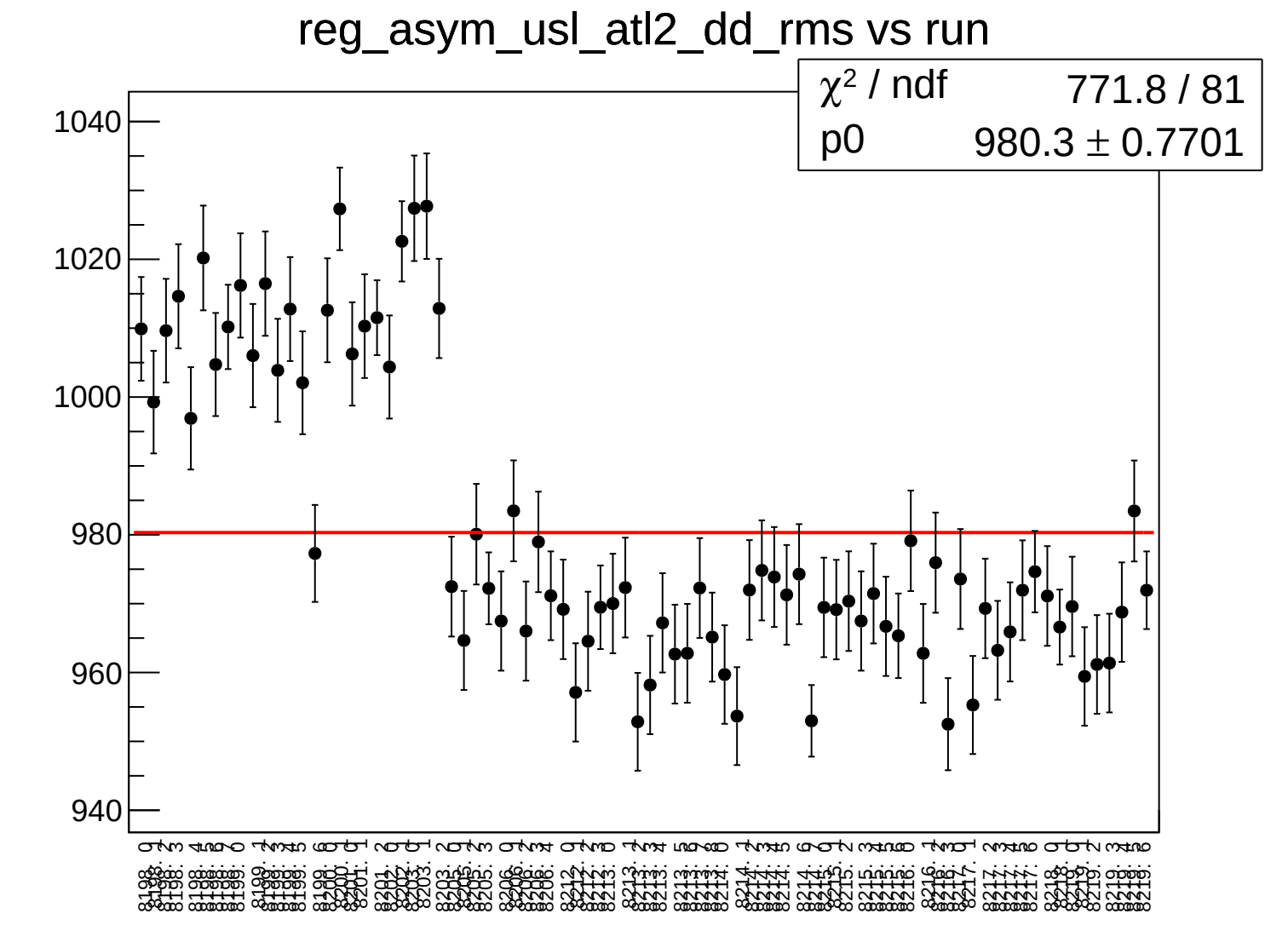

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 67.09 / 81
p0 2.184e−13 ± 4.383e−13
40
20
0
−20
−40
−60
pull
Entries 82
Mean 79.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

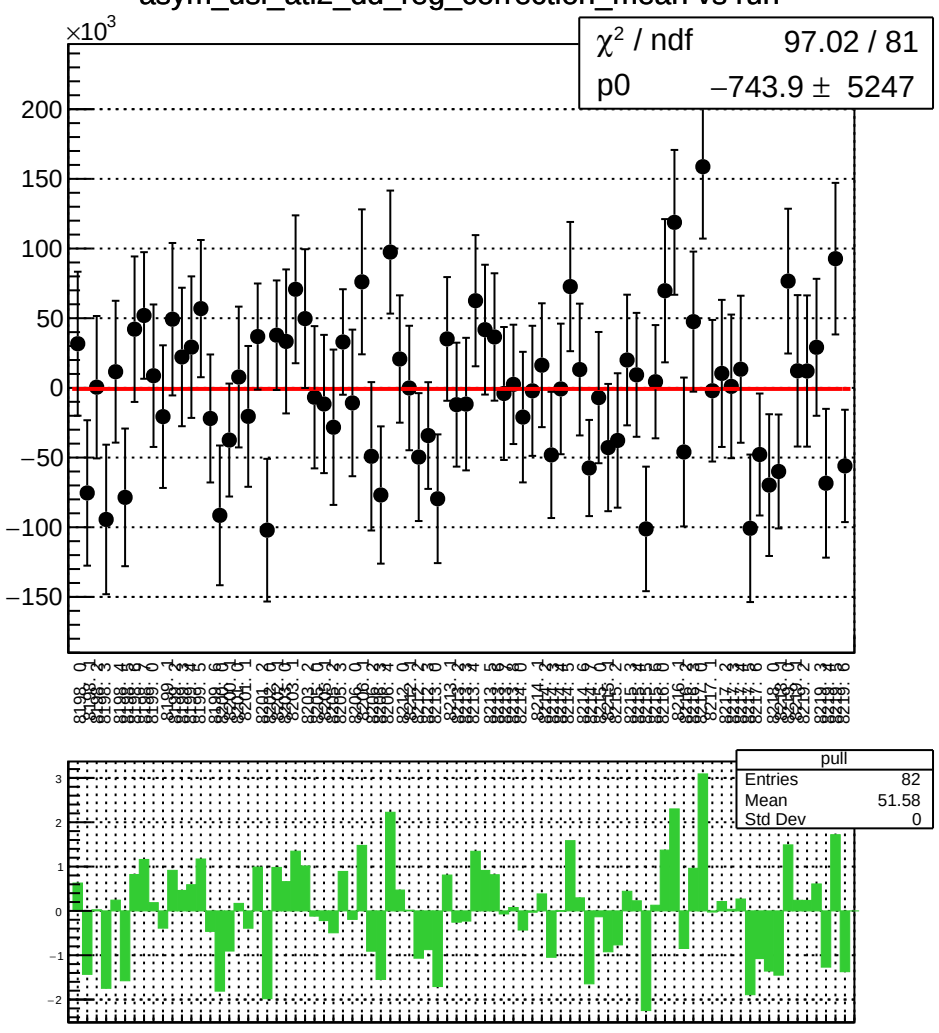

pull1D
Entries 82
Mean 0.05781
Std Dev 0.9027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

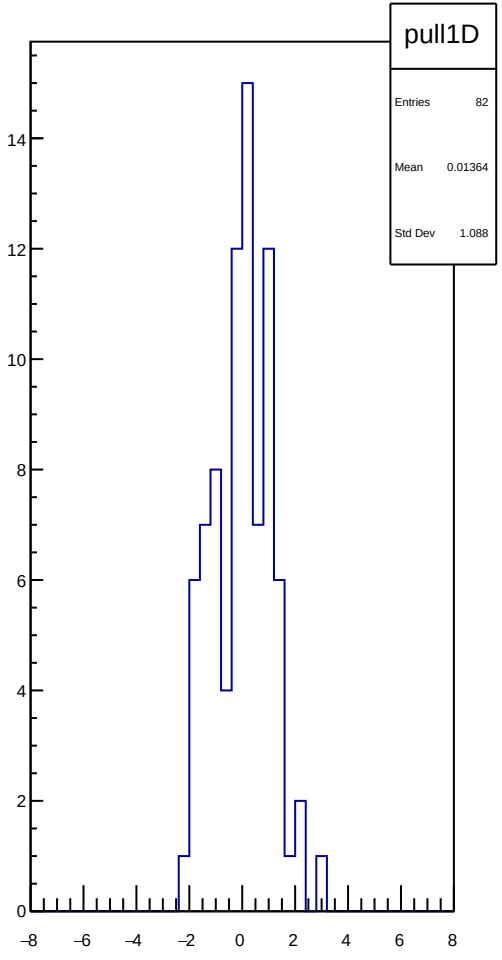

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.393e+05 / 81
p0 3.37e−10 ± 3.1e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

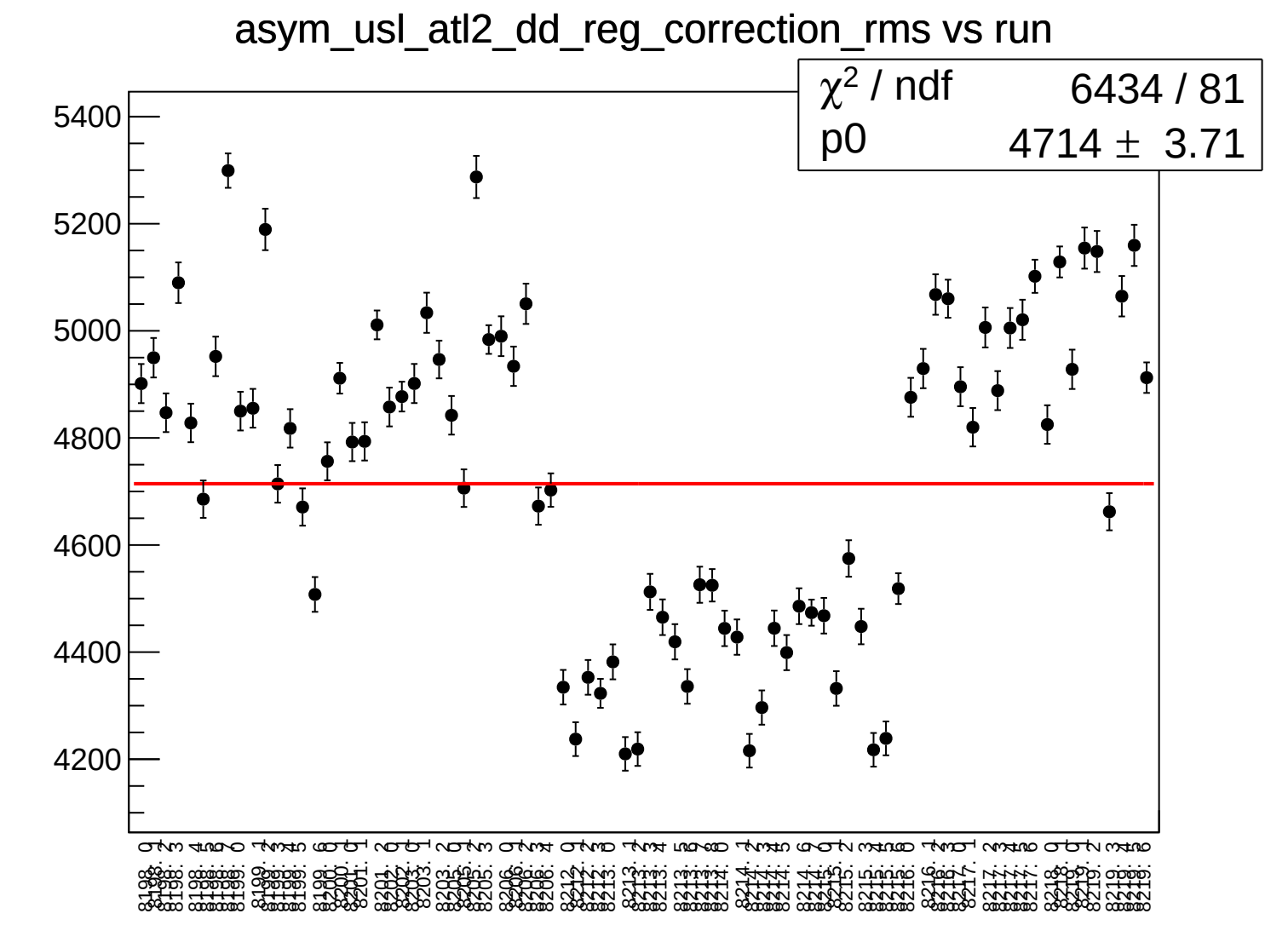

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 87.55 / 81
p0 799.7 ± 1089
pull
Entries 82
Mean −117.6
Std Dev 0

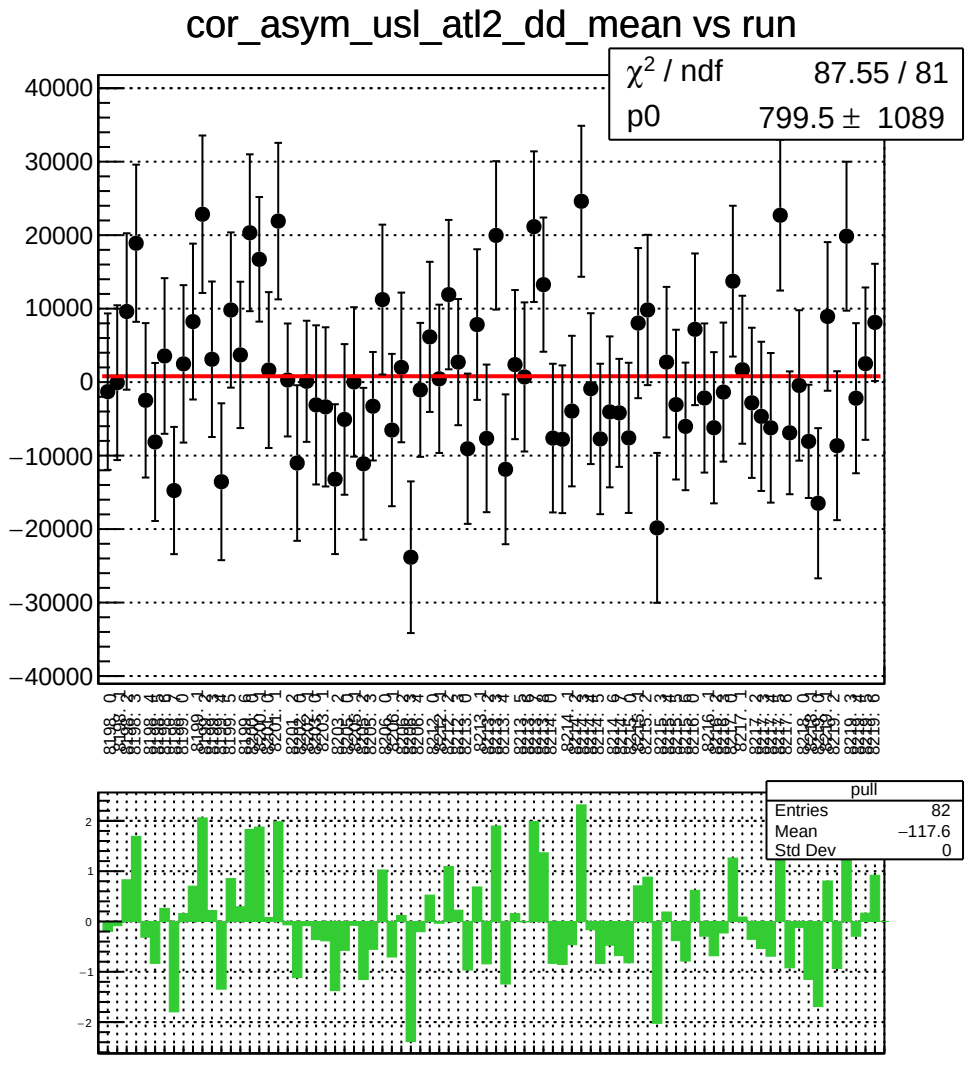

pull1D
Entries 82
Mean 0.01197
Std Dev 1.033

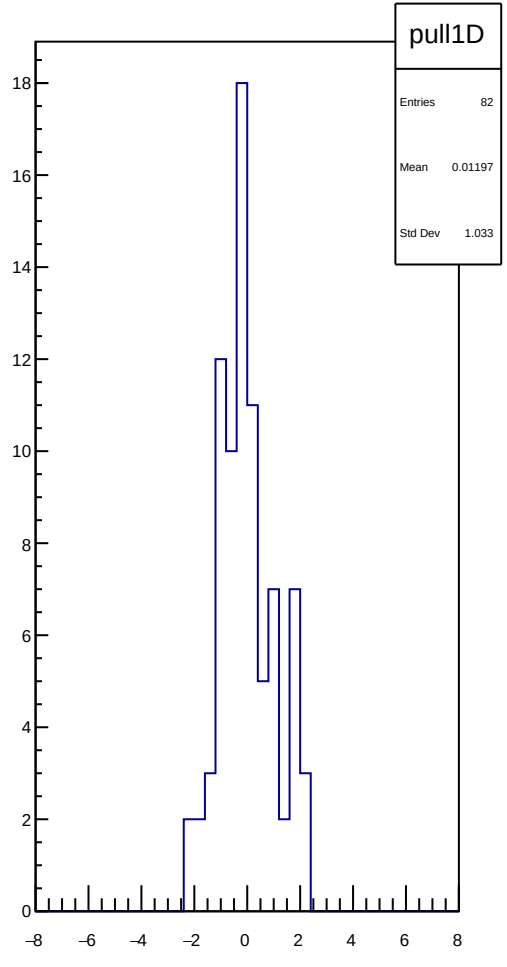

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 771.8 / 81
p0 980.3 ± 0.7701
1040
1020
1000
980
960
940

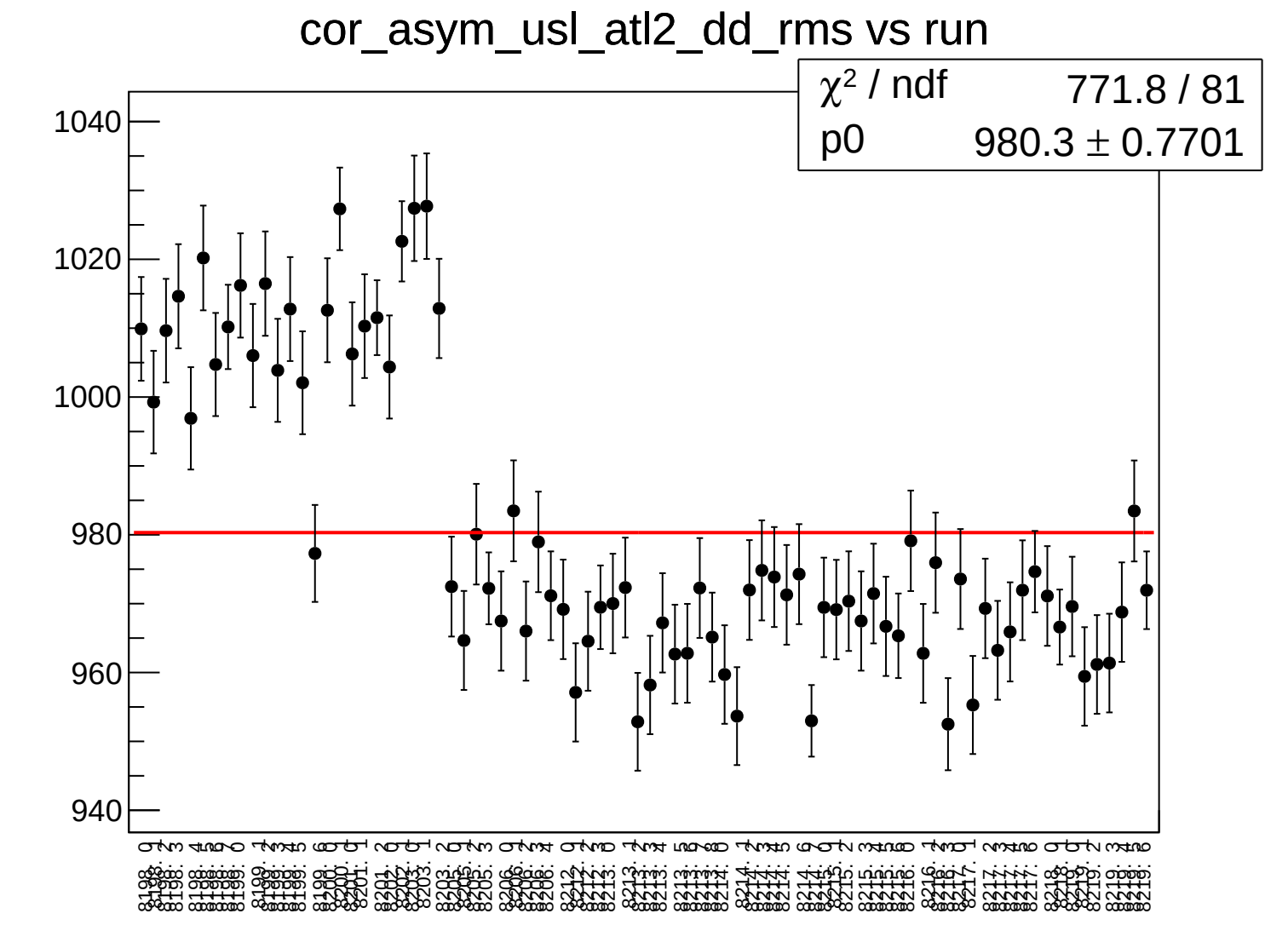

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.02 / 81
p0 −743.9 ± 5247
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 51.58
Std Dev 0
3
2
1
0
−1
−2

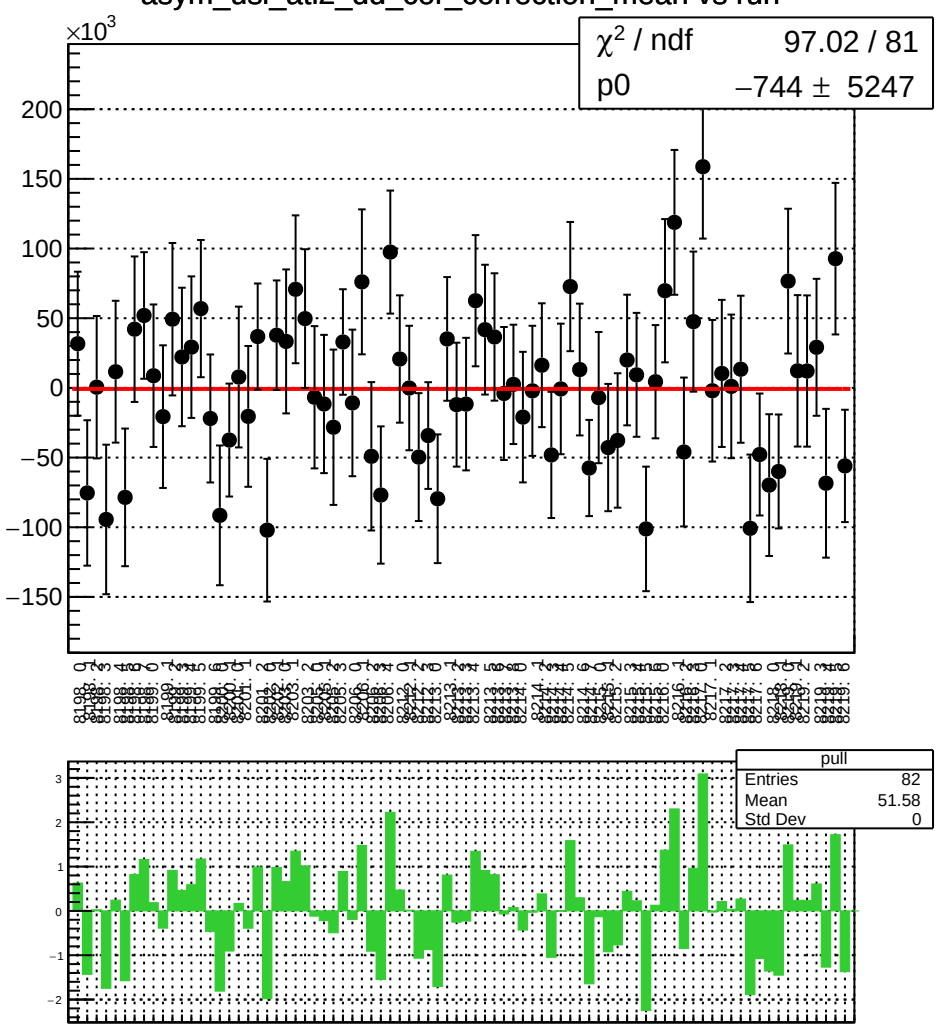

pull1D
Entries 82
Mean 0.01364
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

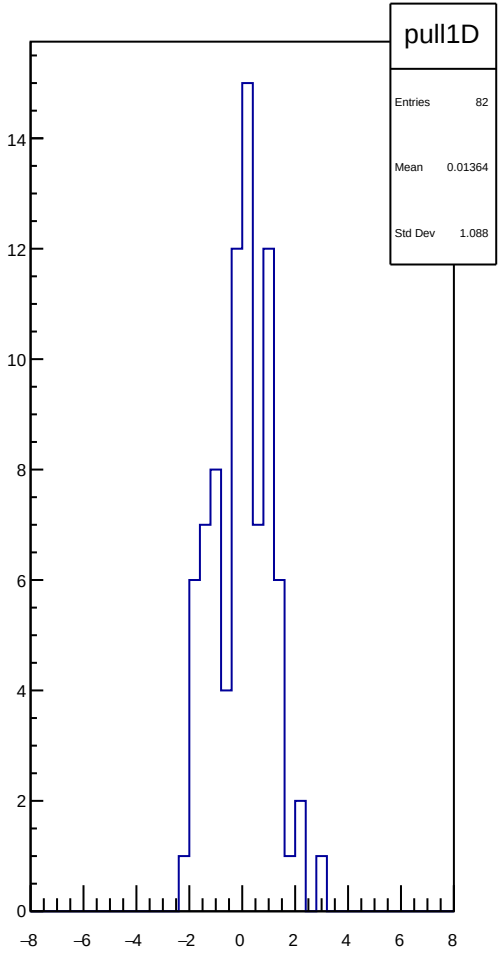

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 6434 / 81
p0 4714 ± 3.71
5400
5200
5000
4800
4600
4400
4200

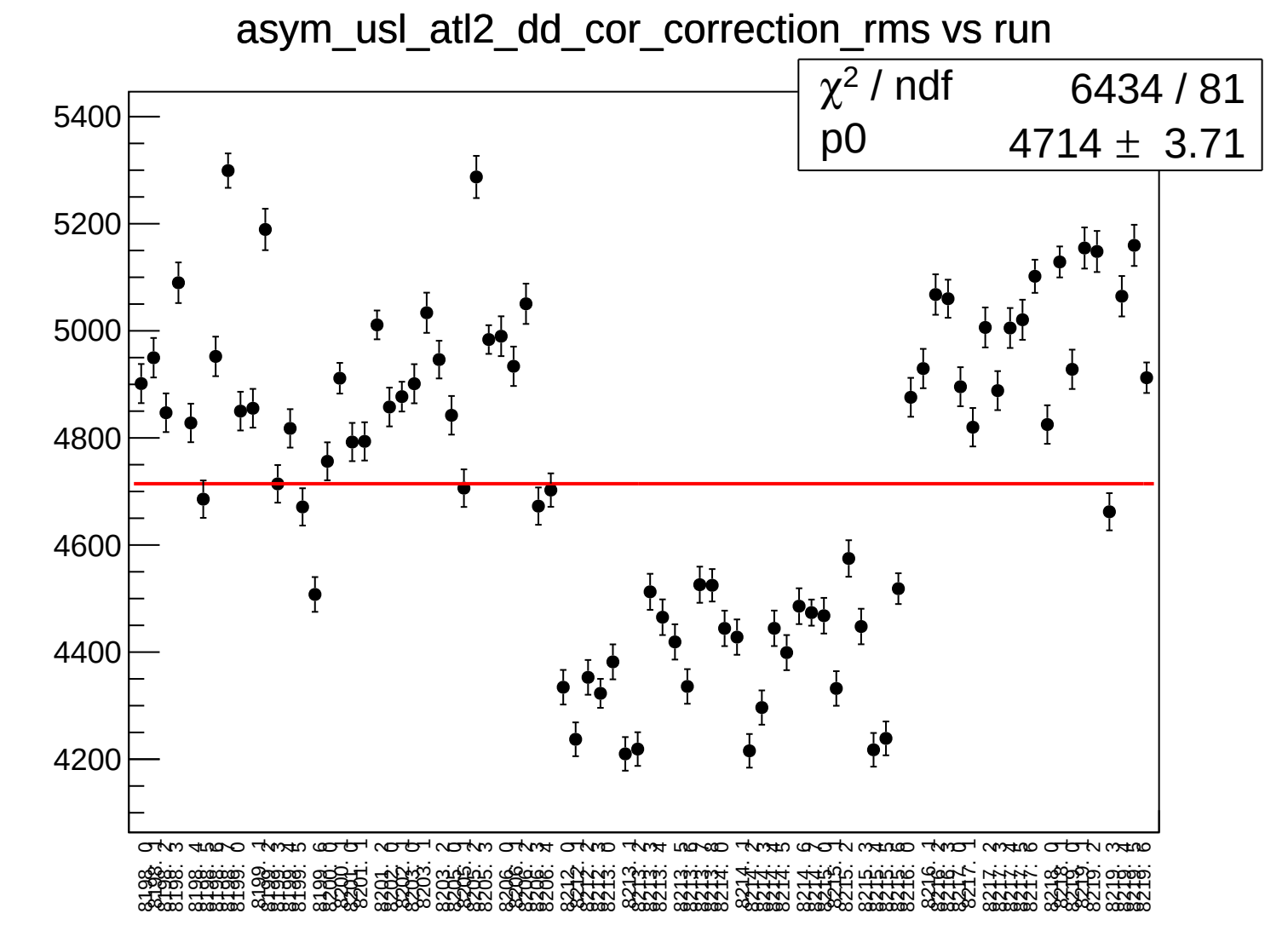

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 87.55 / 81
p0 799.5 ± 1089
pull
Entries 82
Mean −117.6
Std Dev 0

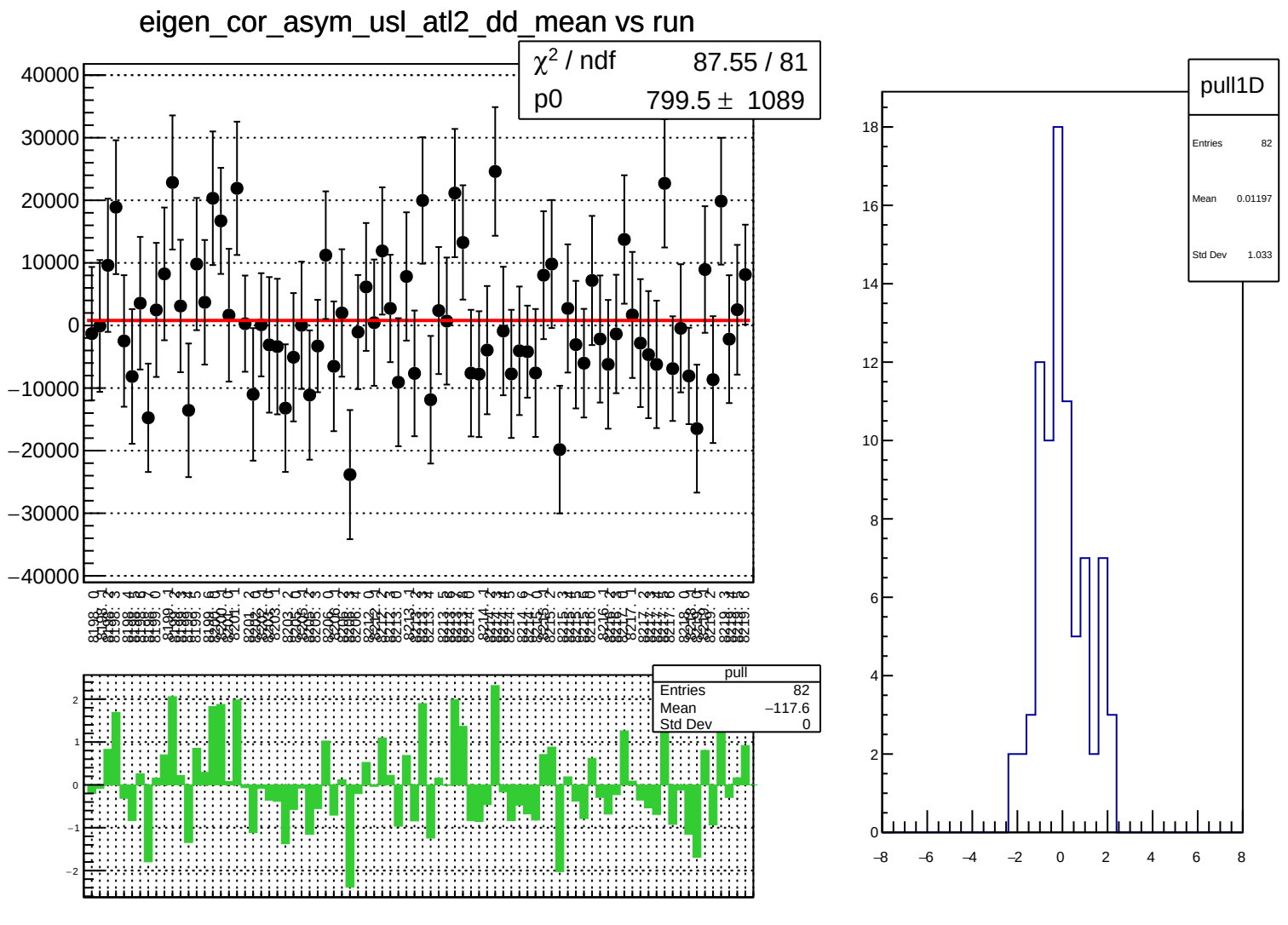

pull1D
Entries 82
Mean 0.01197
Std Dev 1.033

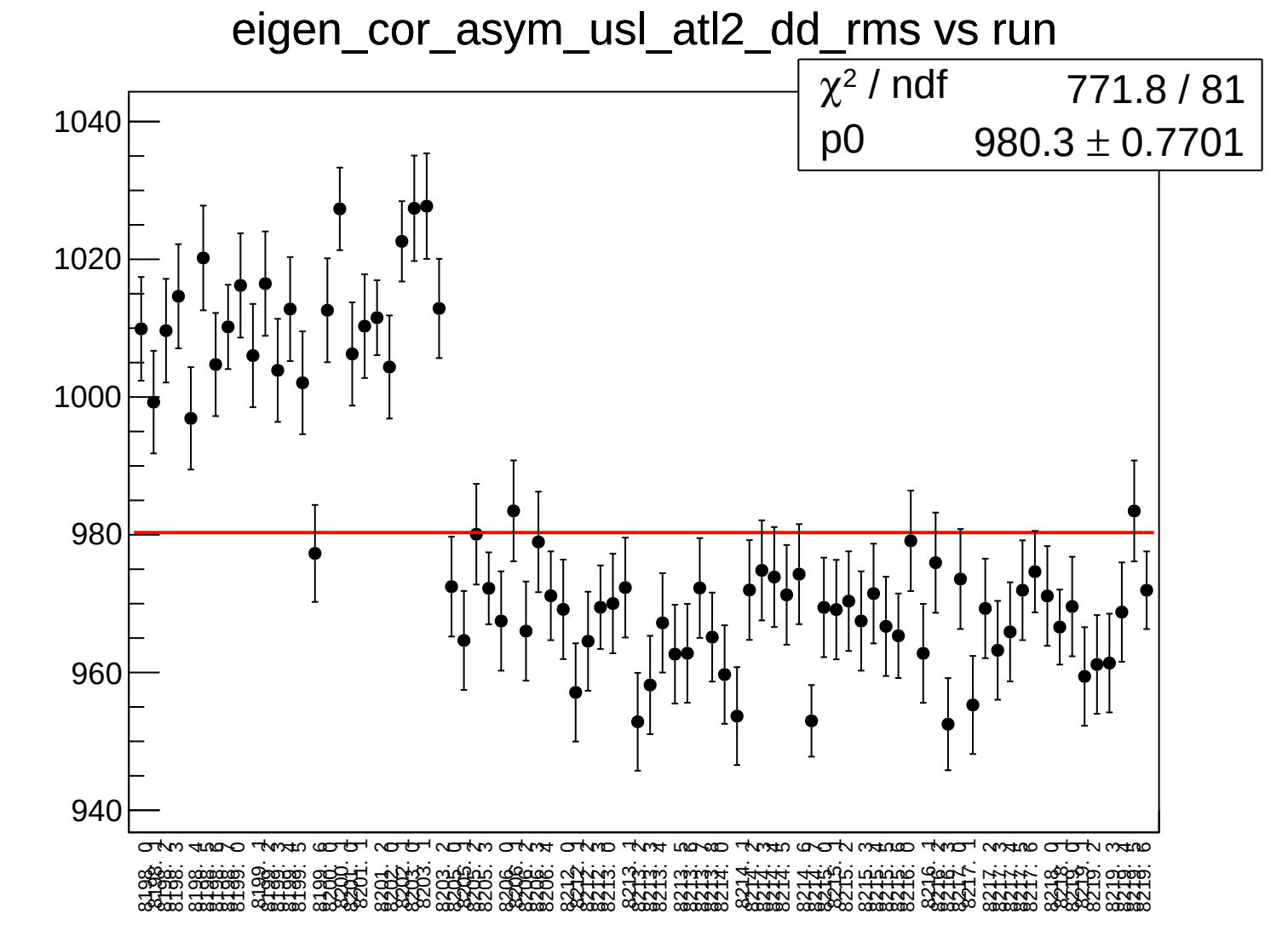

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 771.8 / 81
p0 980.3 ± 0.7701
1040
1020
1000
980
960
940

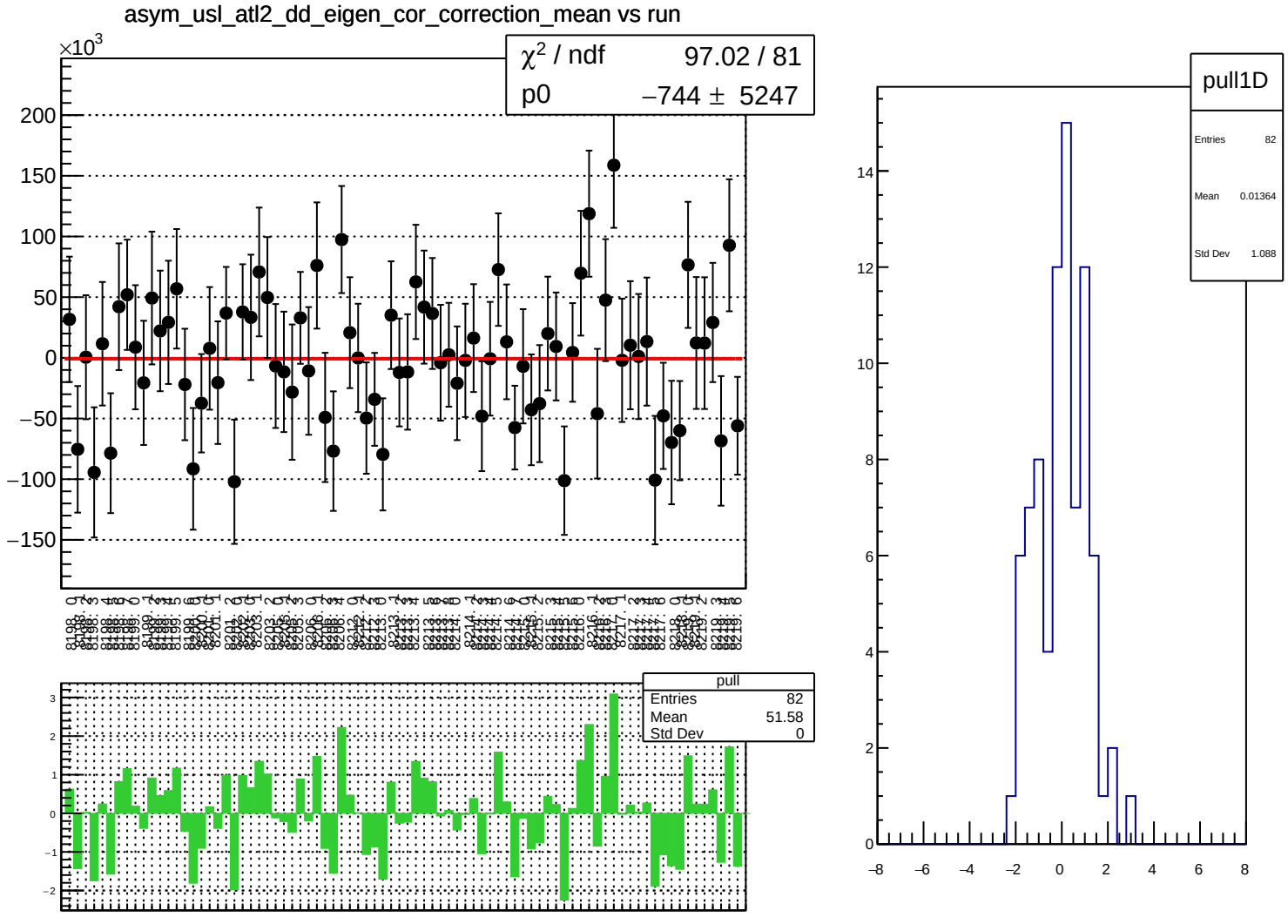

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.02 / 81
p0 −744 ± 5247
pull
Entries 82
Mean 51.58
Std Dev 0

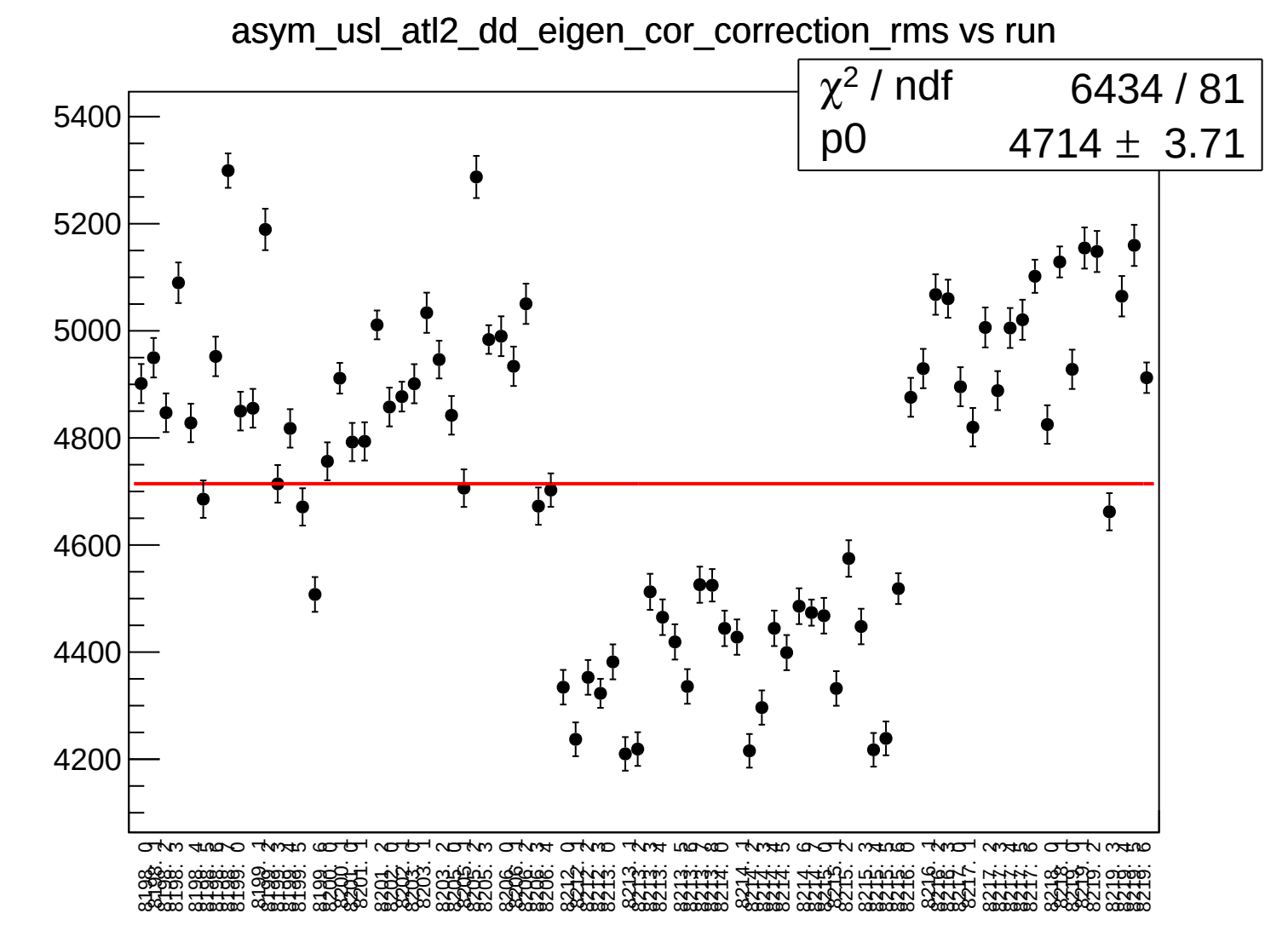

pull1D
Entries 82
Mean 0.01364
Std Dev 1.088

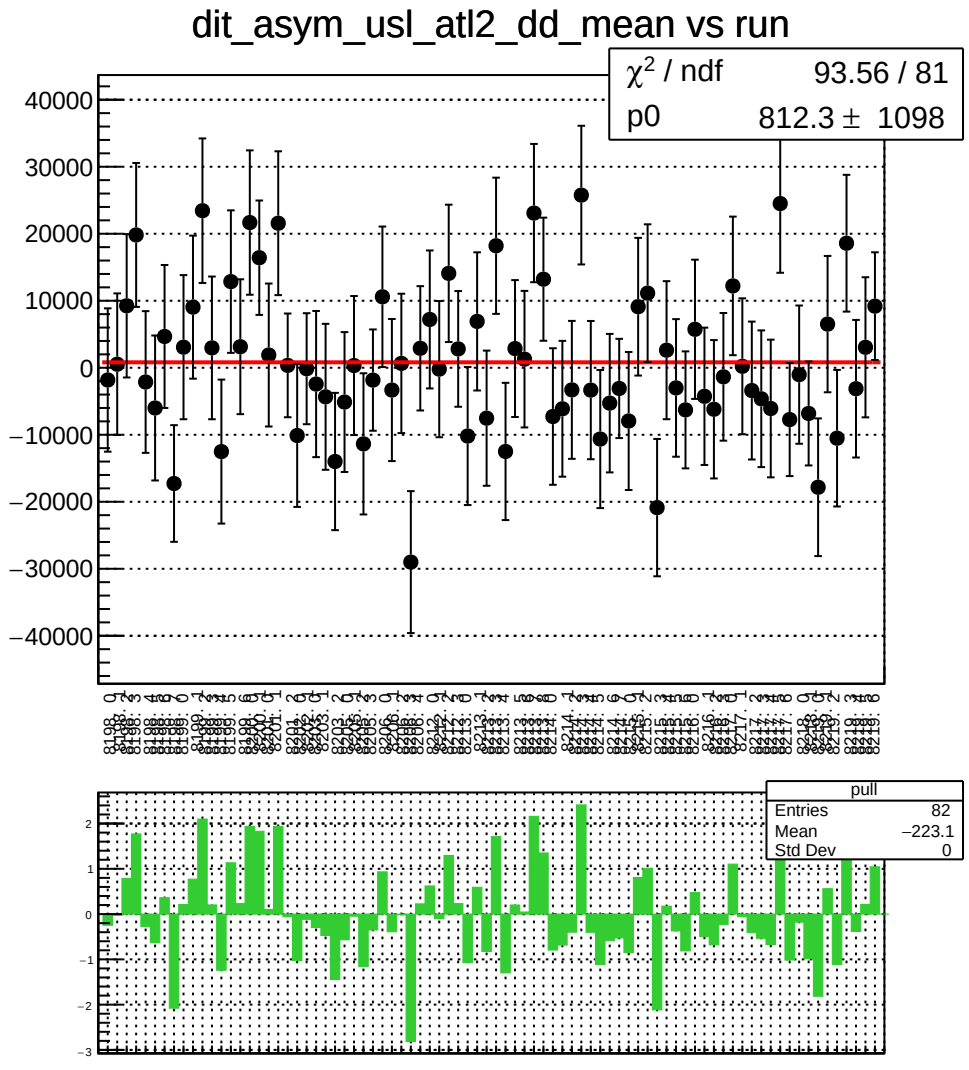

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 6434 / 81
p0 4714 ± 3.71
5400
5200
5000
4800
4600
4400
4200

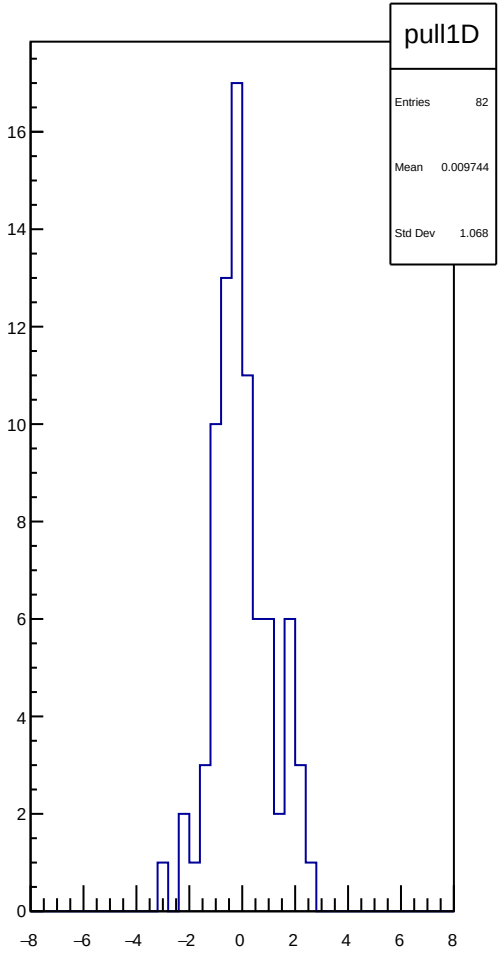

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 87.55 / 81
p0 799.5 ± 1089
pull
Entries 82
Mean −117.6
Std Dev 0
pull1D
Entries 82
Mean 0.01197
Std Dev 1.033

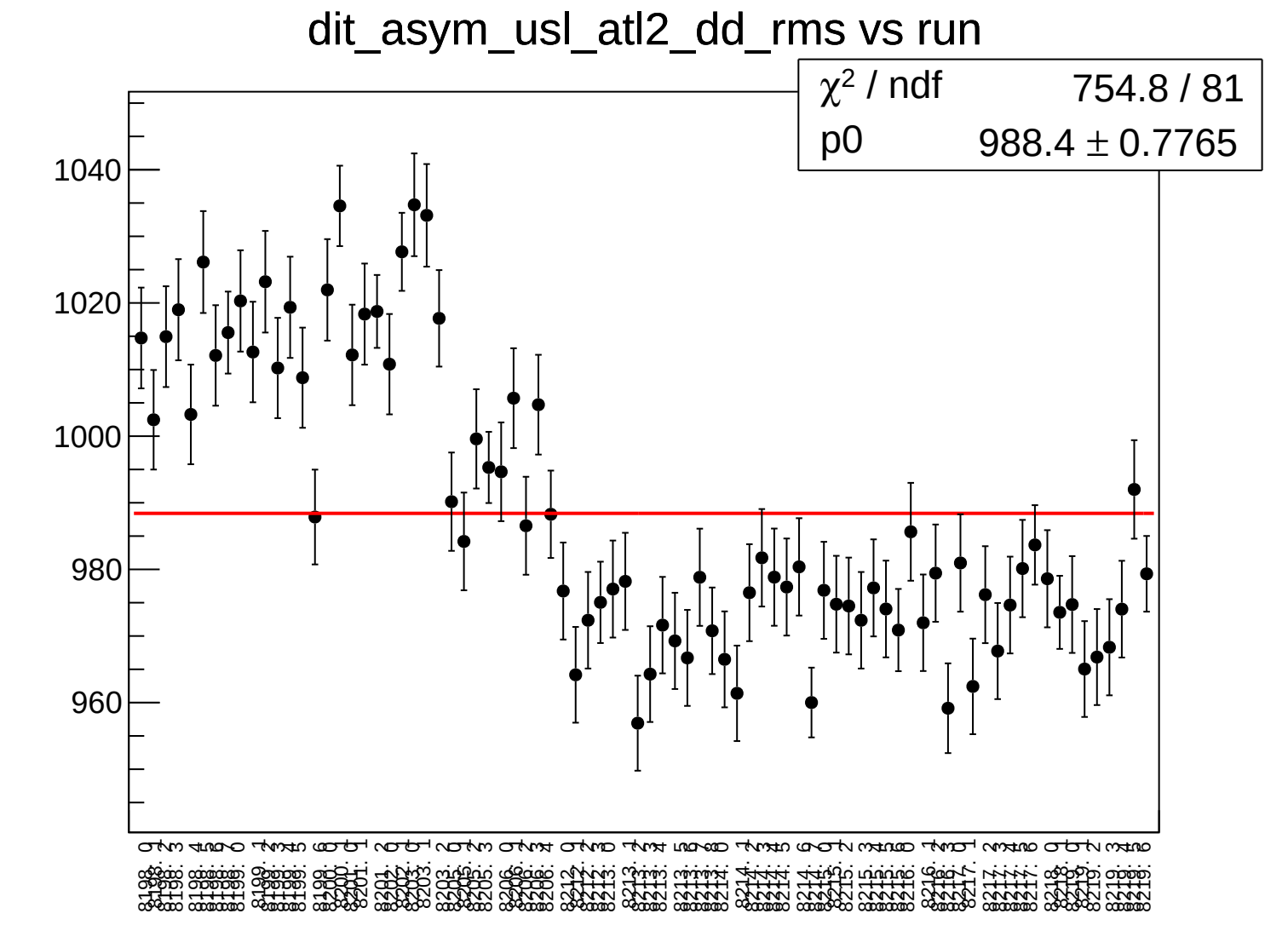

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 771.8 / 81
p0 980.3 ± 0.7701
1040
1020
1000
980
960
940

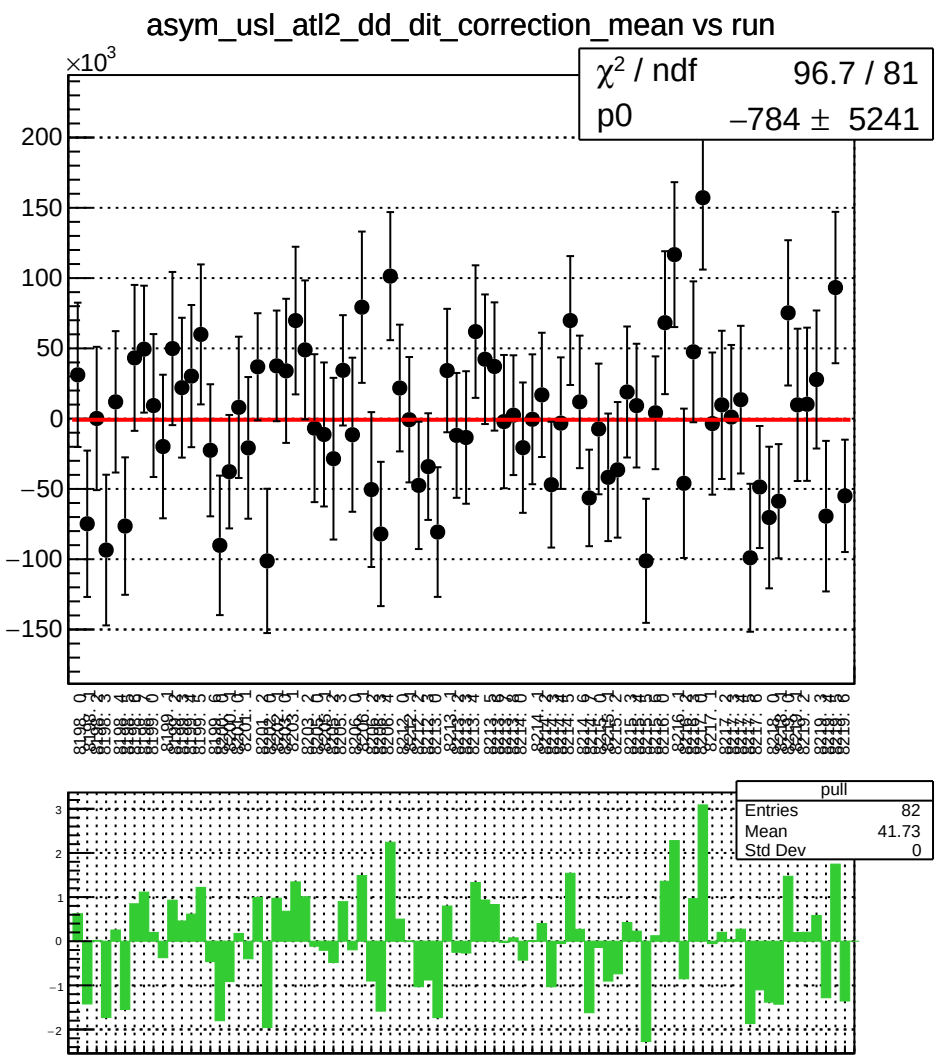

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.02 / 81
p0 −744 ± 5247
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 51.58
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01364
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

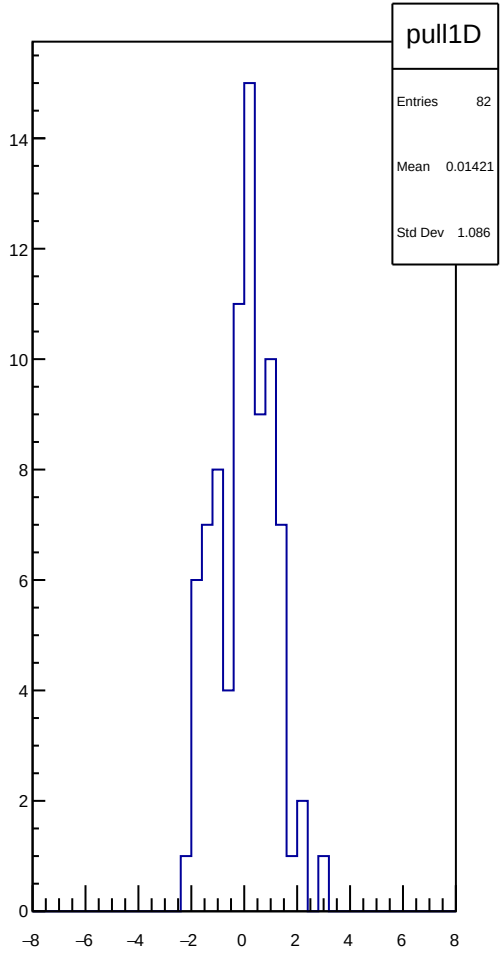

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6434 / 81
p0 4714 ± 3.71
5400
5200
5000
4800
4600
4400
4200

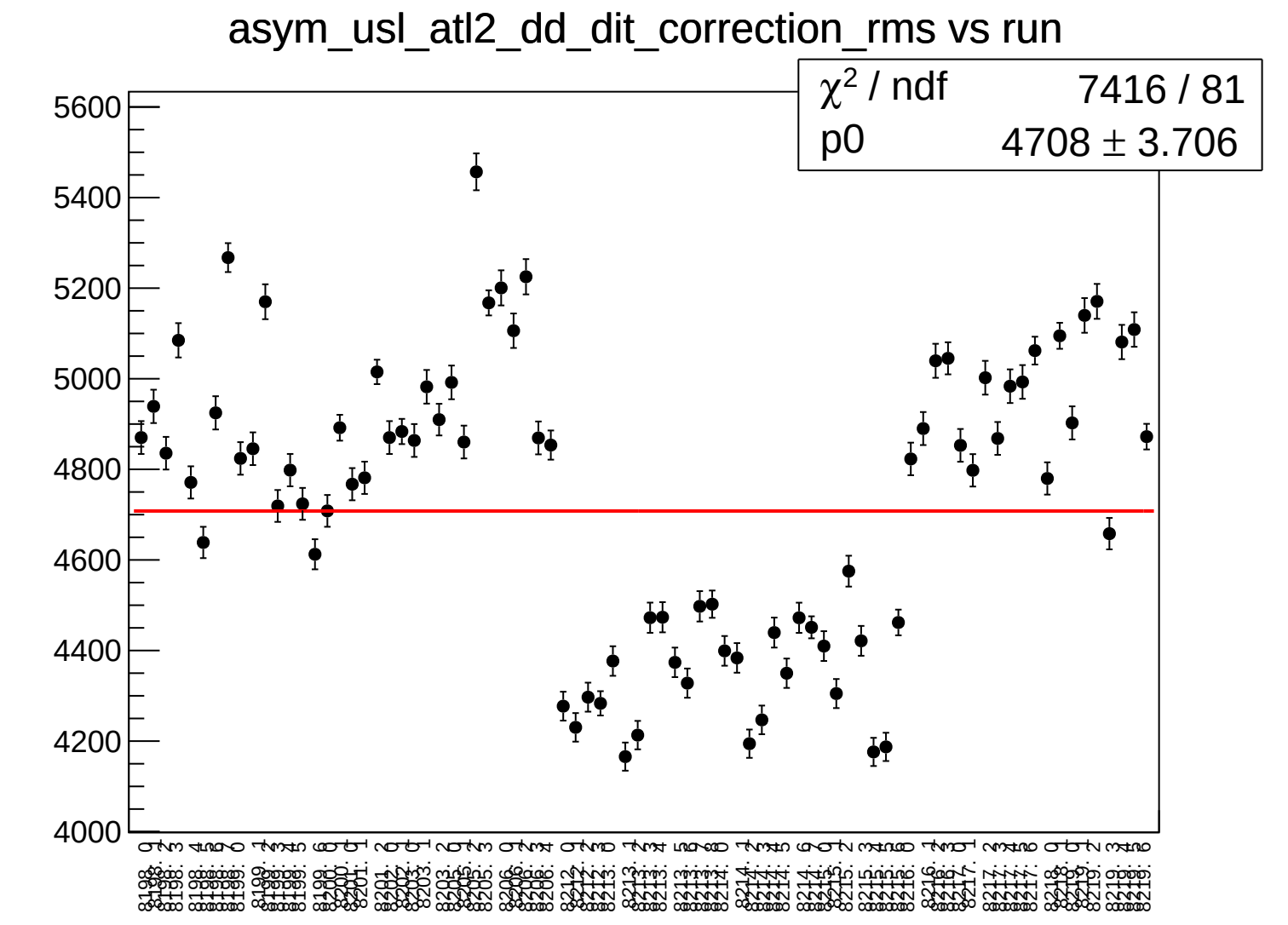

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 93.56 / 81
p0 812.3 ± 1098
pull
Entries 82
Mean −223.1
Std Dev 0

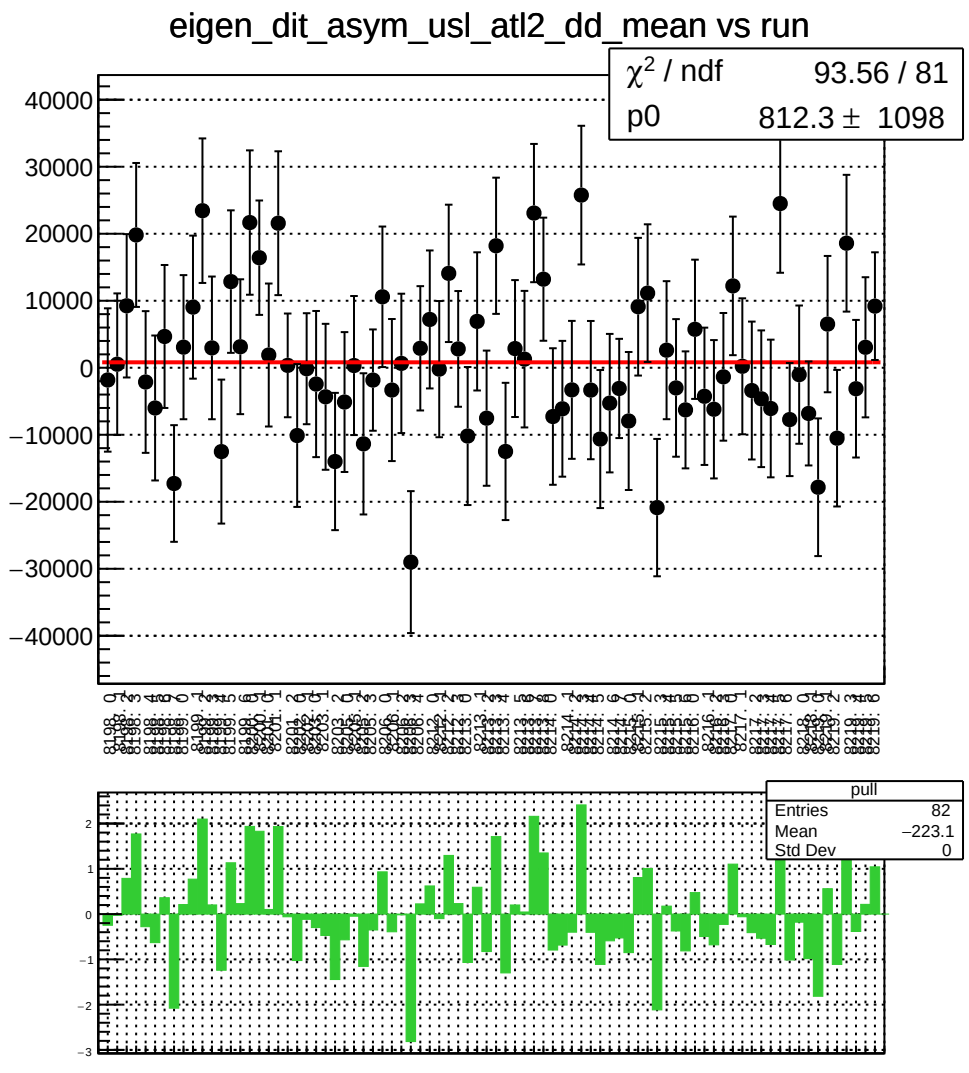

pull1D
Entries 82
Mean 0.009744
Std Dev 1.068

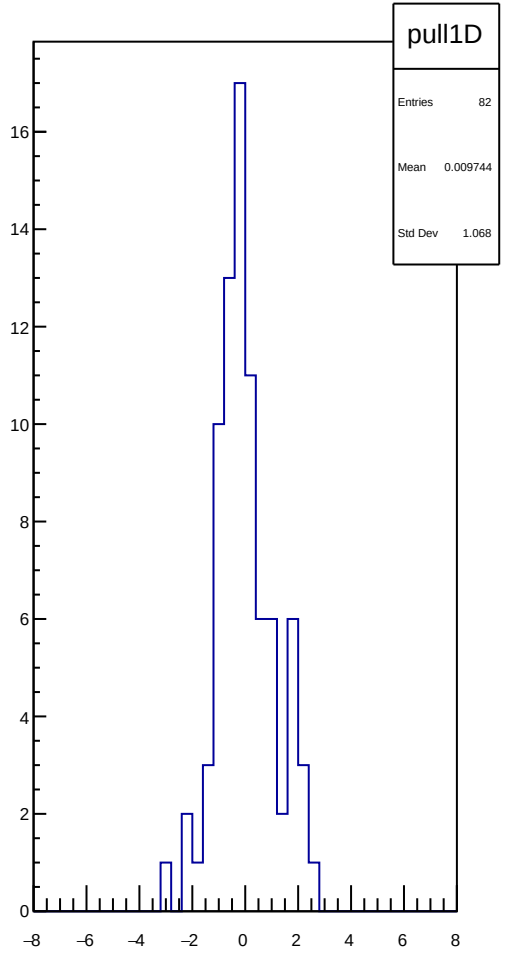

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 754.8 / 81
p0 988.4 ± 0.7765
1040
1020
1000
980
960

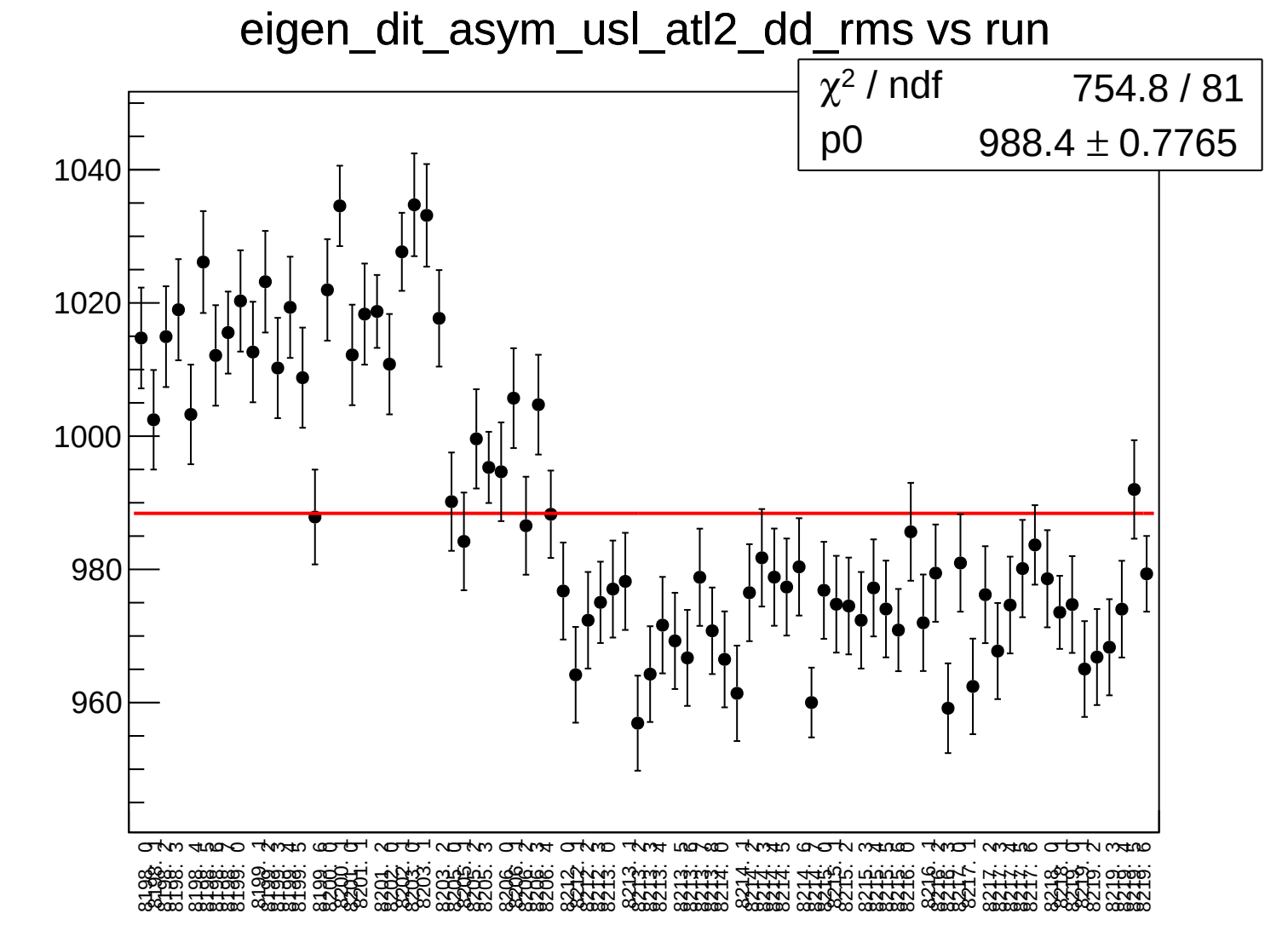

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.7 / 81
p0 −784 ± 5241
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 41.73
Std Dev 0
3
2
1
0
−1
−2

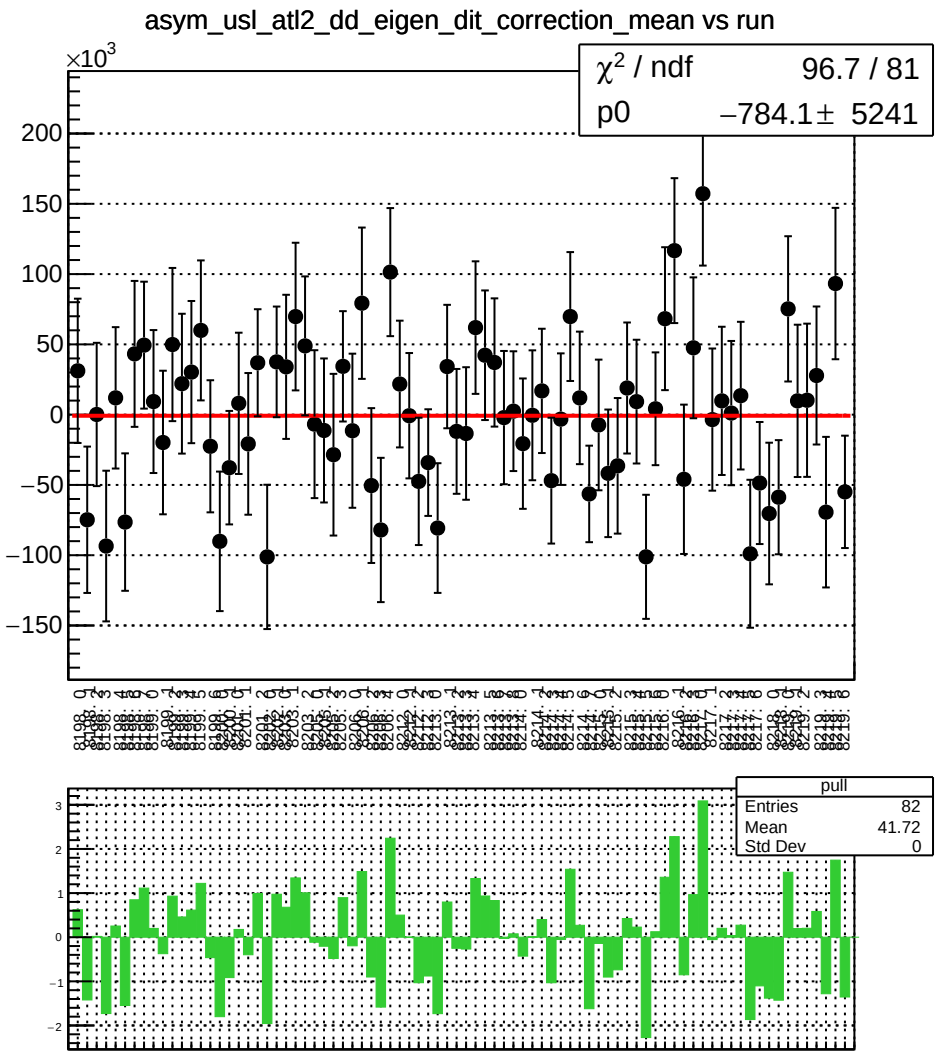

pull1D
Entries 82
Mean 0.01421
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

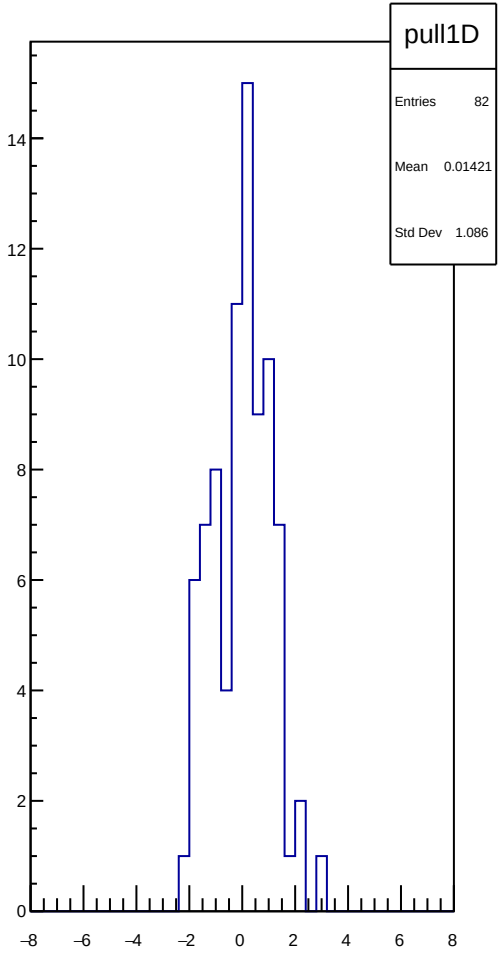

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 7416 / 81
p0 4708 ± 3.706
5600
5400
5200
5000
4800
4600
4400
4200
4000

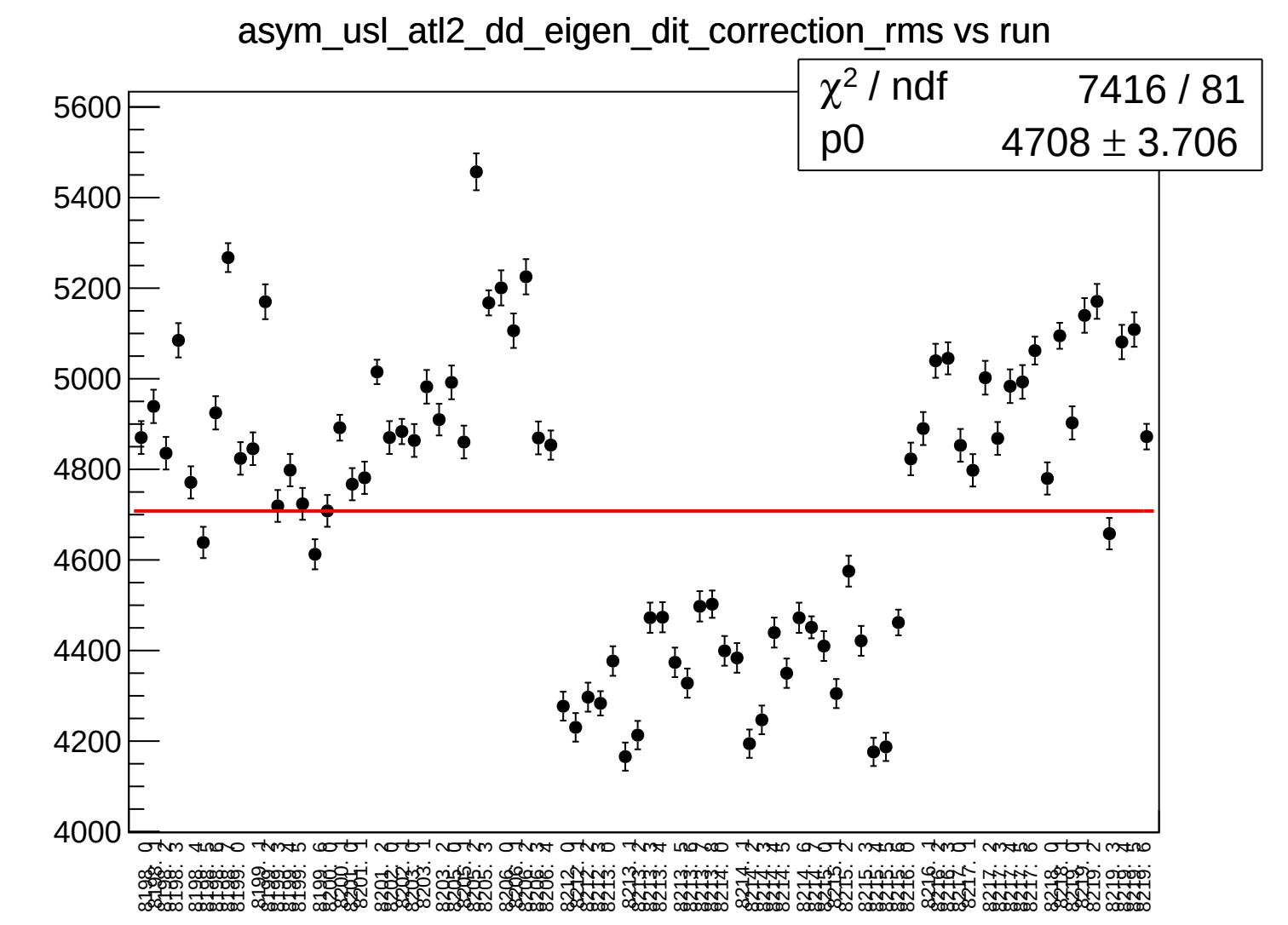

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 93.56 / 81
p0 812.3 ± 1098
pull
Entries 82
Mean −223.1
Std Dev 0

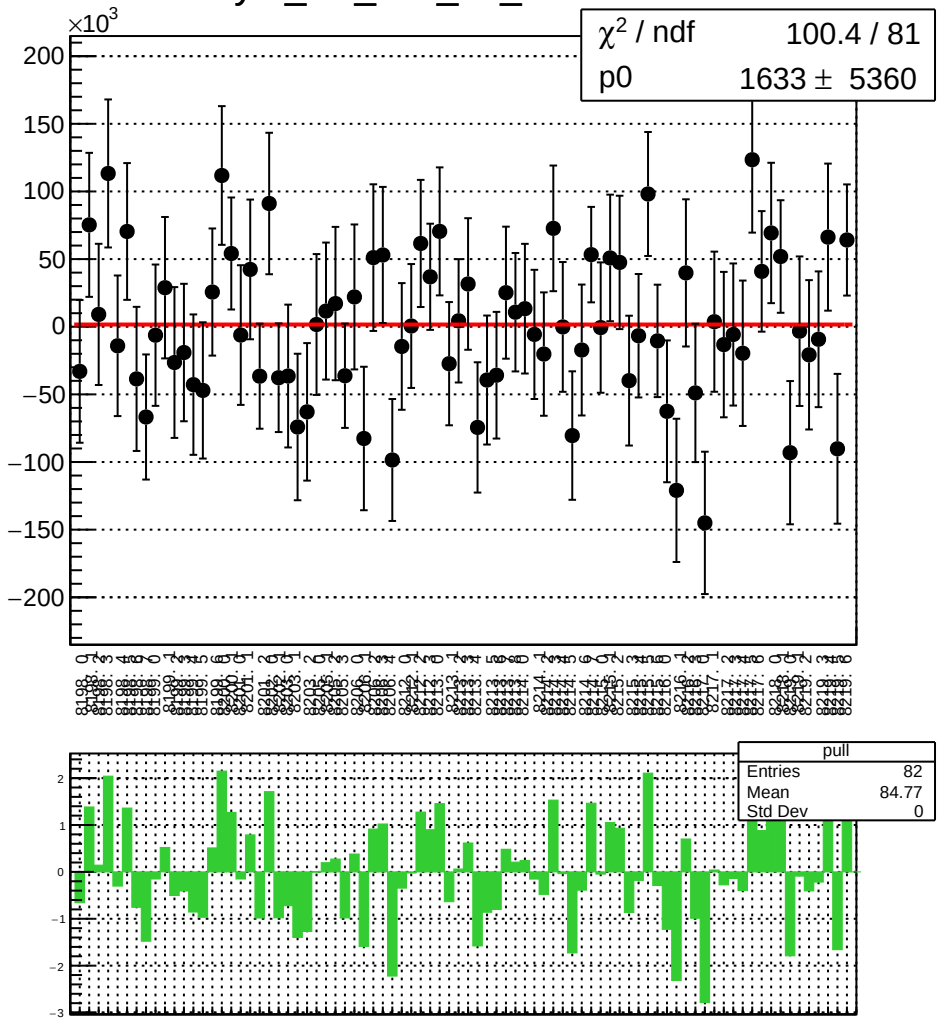

pull1D
Entries 82
Mean 0.009744
Std Dev 1.068

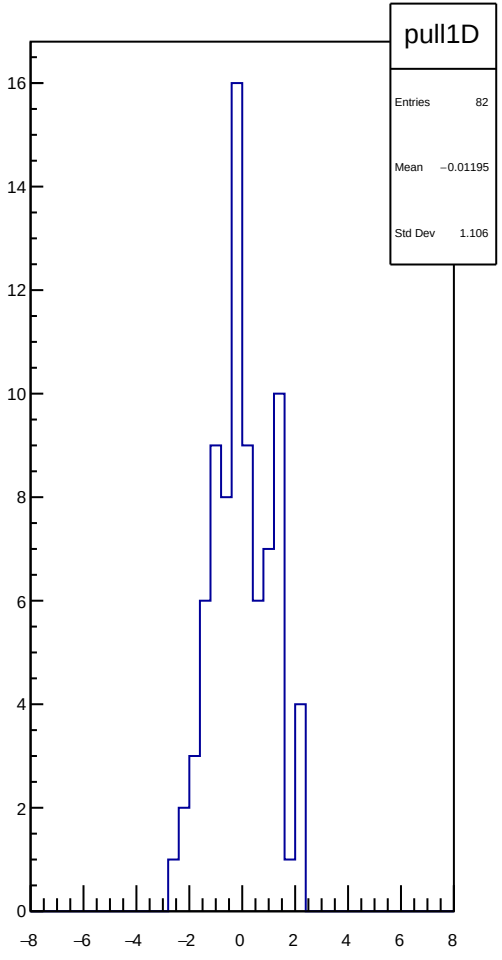

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 754.8 / 81
p0 988.4 ± 0.7765
1040
1020
1000
980
960

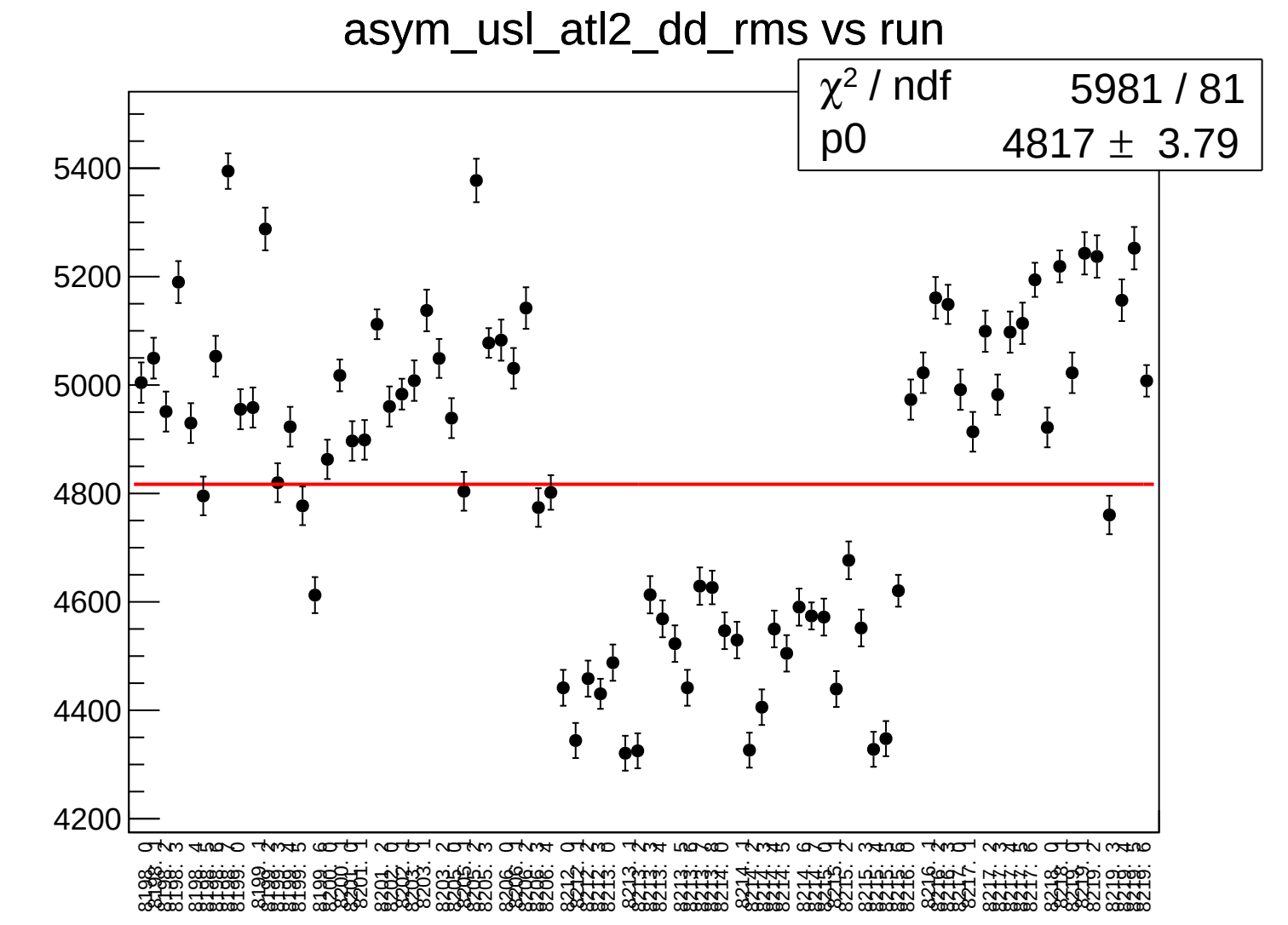

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.7 / 81
p0 −784.1± 5241
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 41.72
Std Dev 0
3
2
1
0
−1
−2

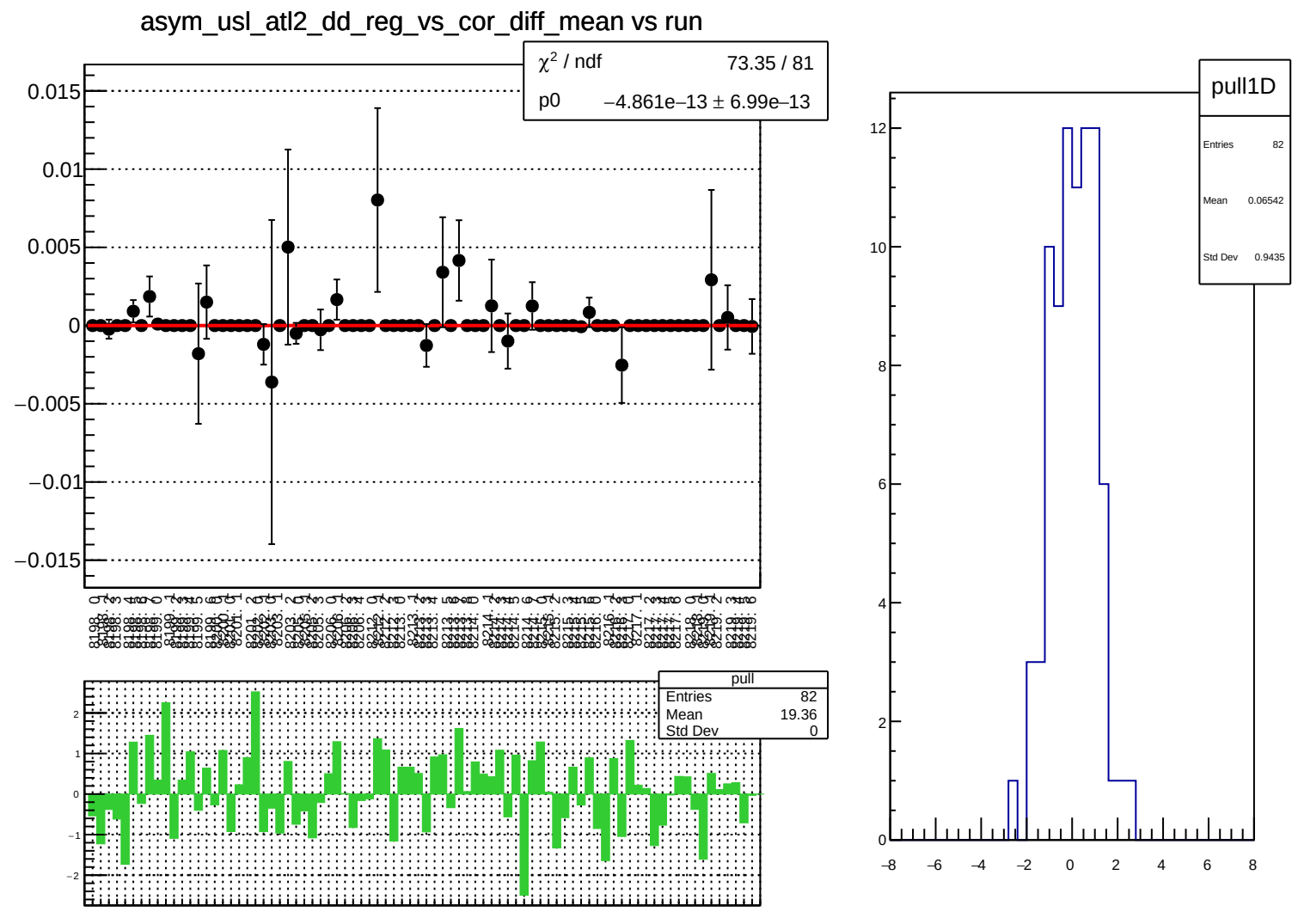

pull1D
Entries 82
Mean 0.01421
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

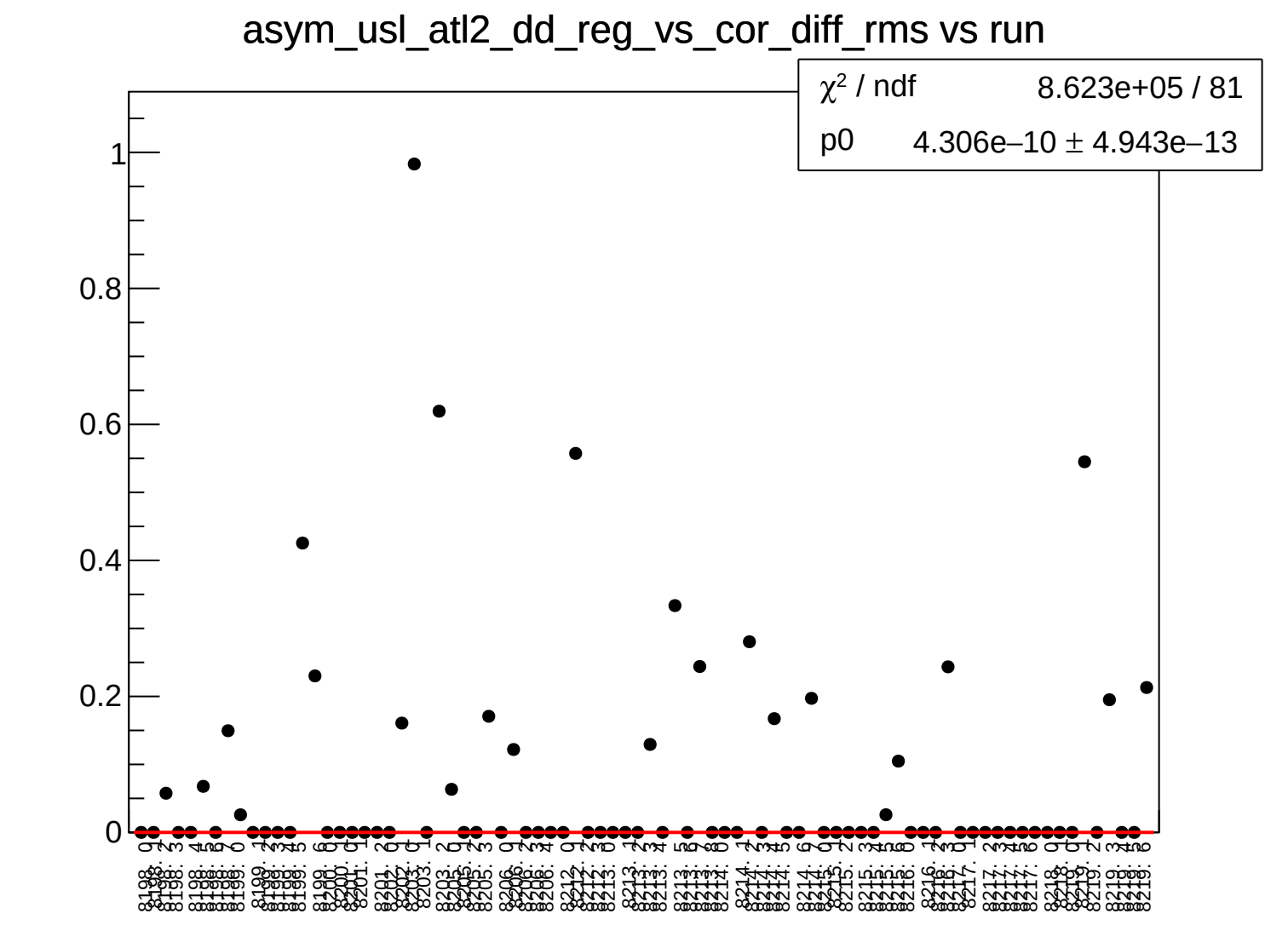

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7416 / 81
p0 4708 ± 3.706
5600
5400
5200
5000
4800
4600
4400
4200
4000

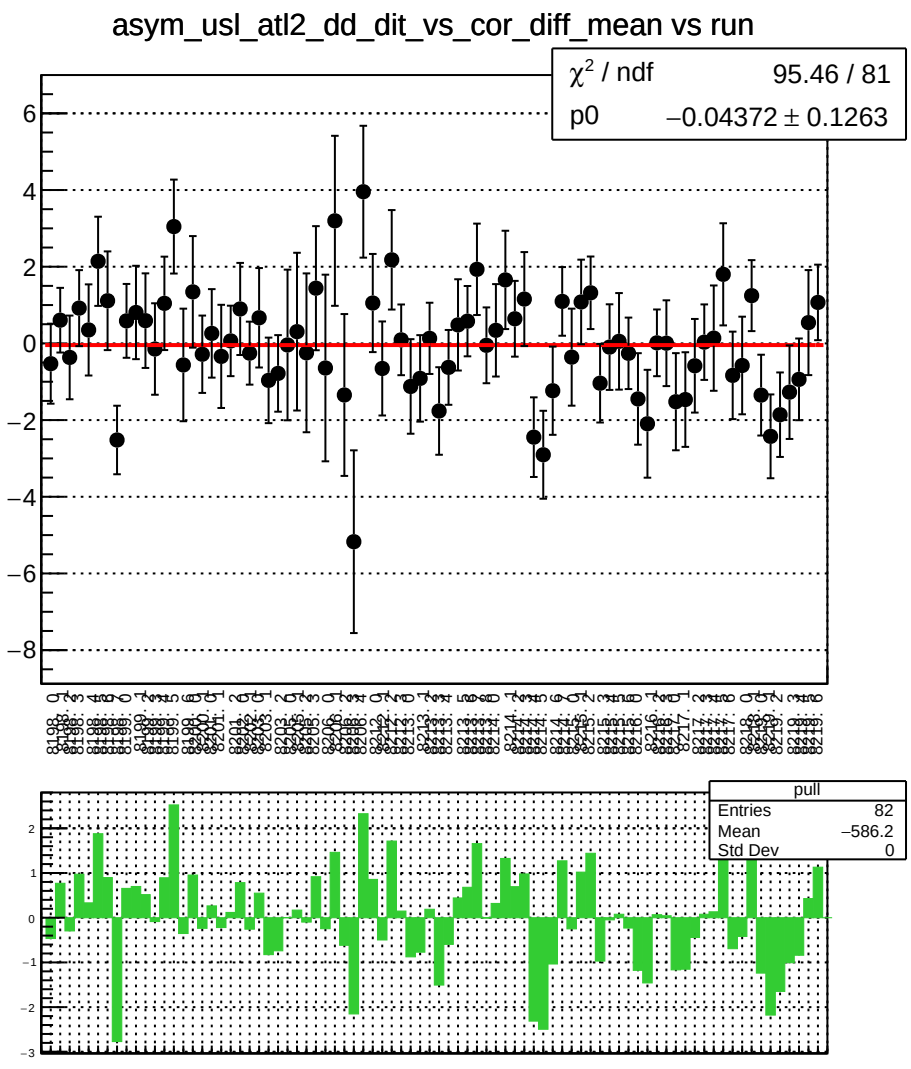

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 100.4 / 81
p0 1633 ± 5360
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean 84.77
Std Dev 0
2
1
0
−1
−2
−3

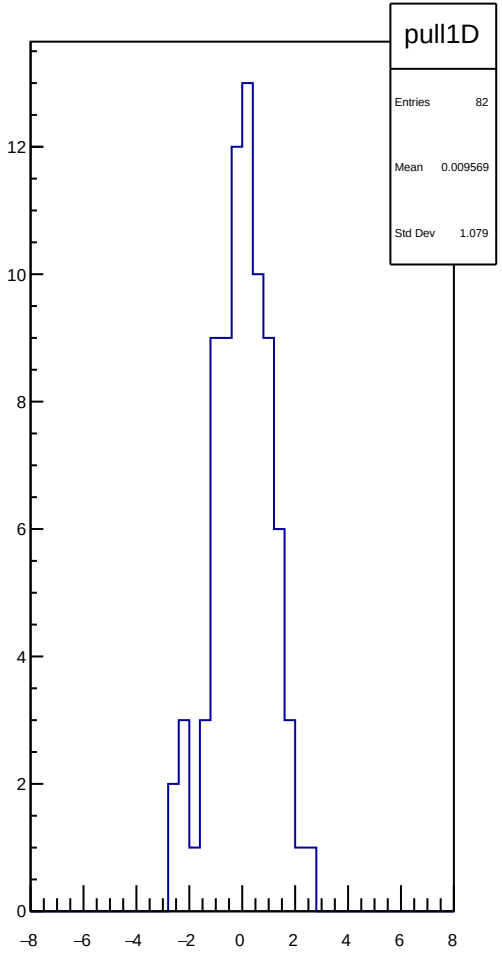

pull1D
Entries 82
Mean −0.01195
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

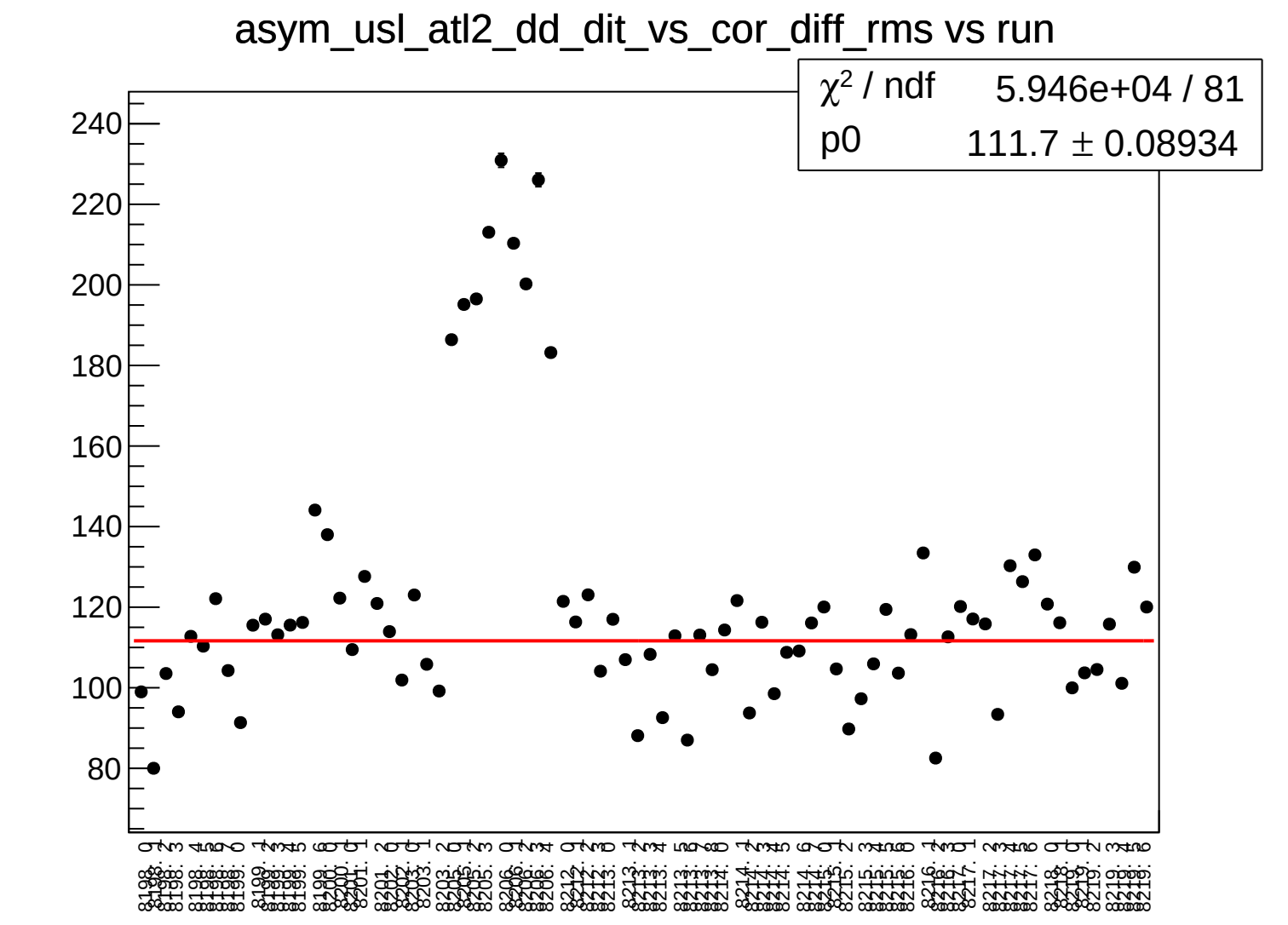

asym_usl_atl2_dd_rms vs run
χ² / ndf 5981 / 81
p0 4817 ± 3.79
5400
5200
5000
4800
4600
4400
4200

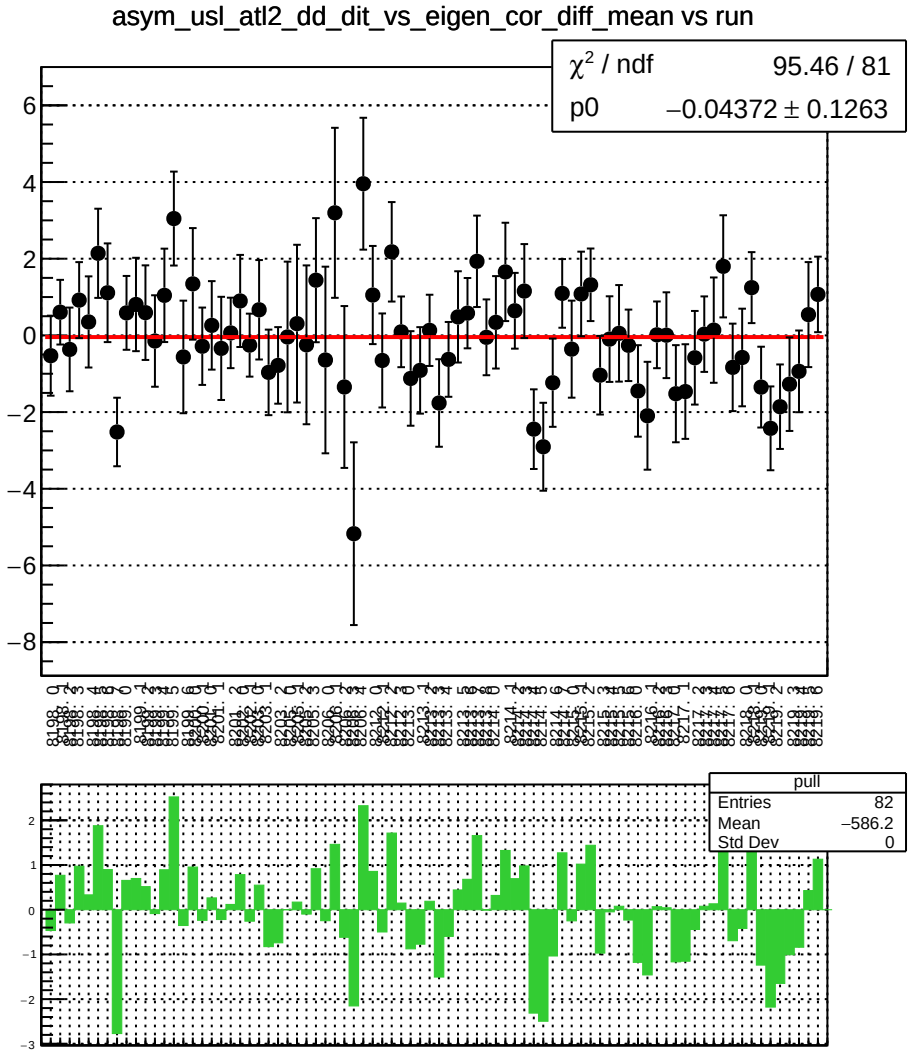

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.35 / 81
p0 −4.861e−13 ± 6.99e−13
pull
Entries 82
Mean 19.36
Std Dev 0
pull1D
Entries 82
Mean 0.06542
Std Dev 0.9435

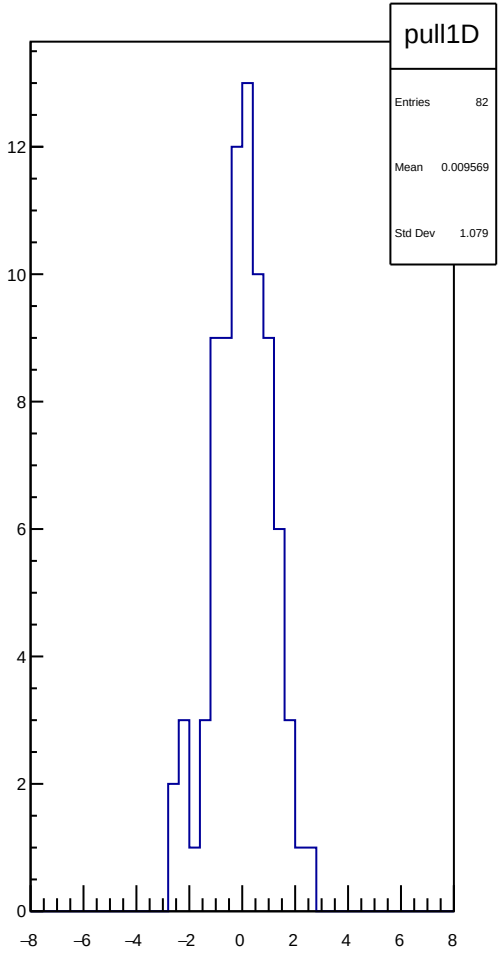

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.623e+05 / 81
p0 4.306e−10 ± 4.943e−13
1
0.8
0.6
0.4
0.2
0

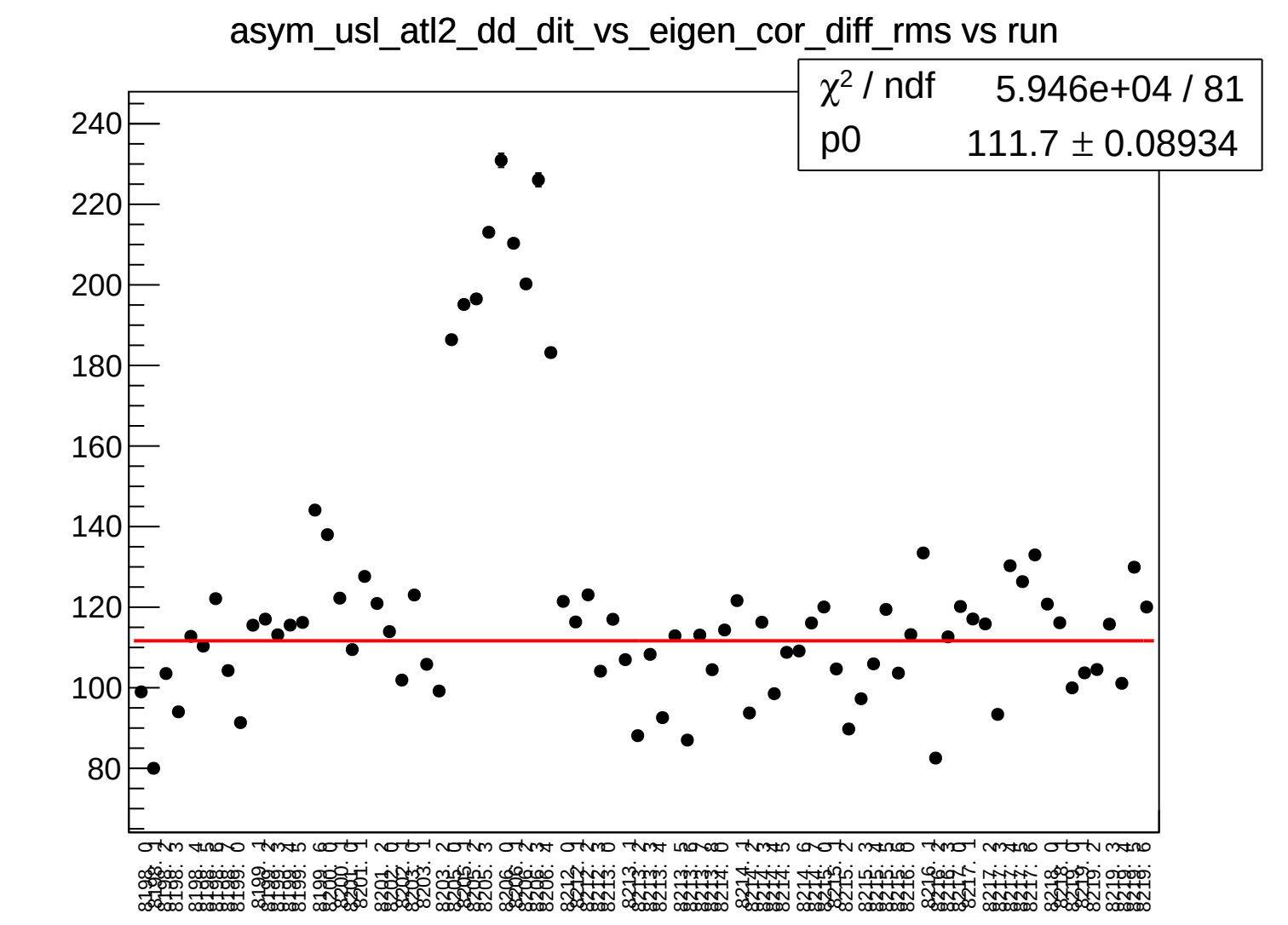

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.46 / 81
p0 −0.04372 ± 0.1263
pull
Entries 82
Mean −586.2
Std Dev 0

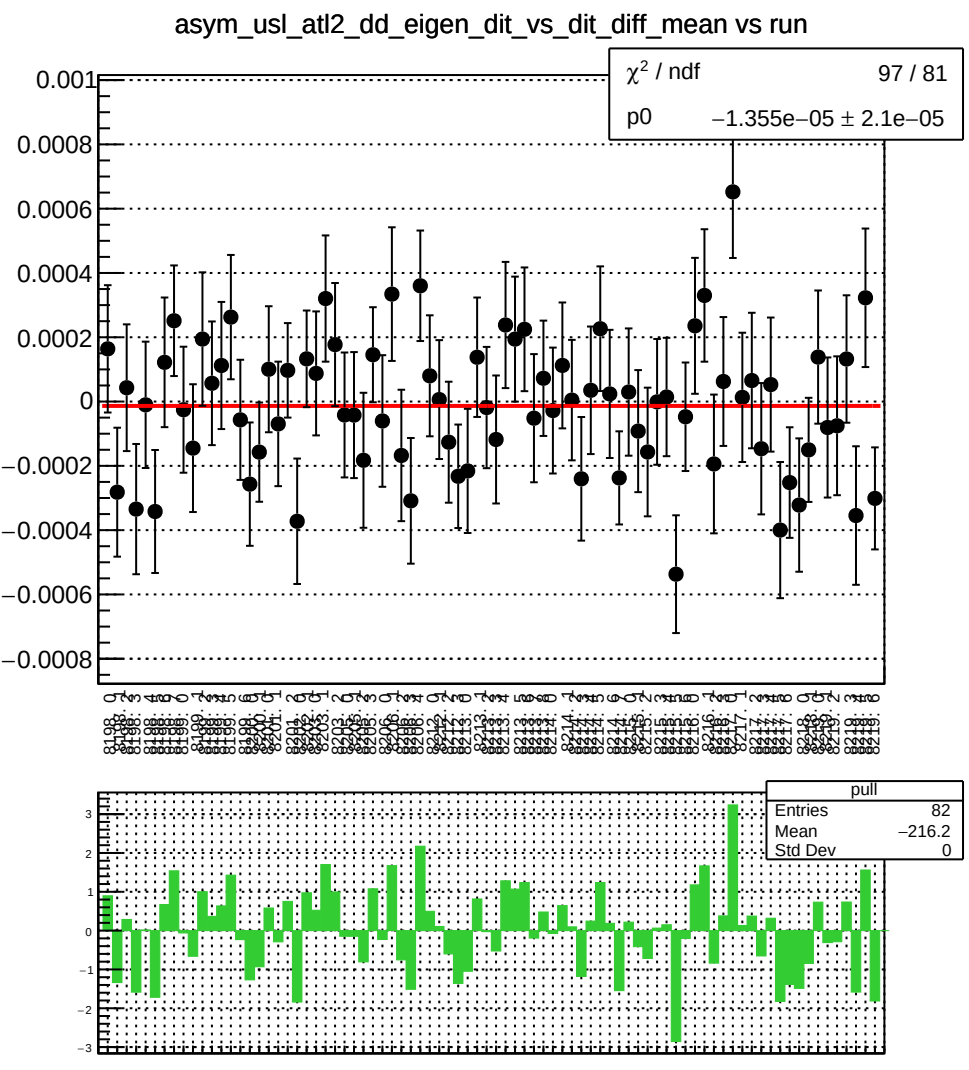

pull1D
Entries 82
Mean 0.009569
Std Dev 1.079

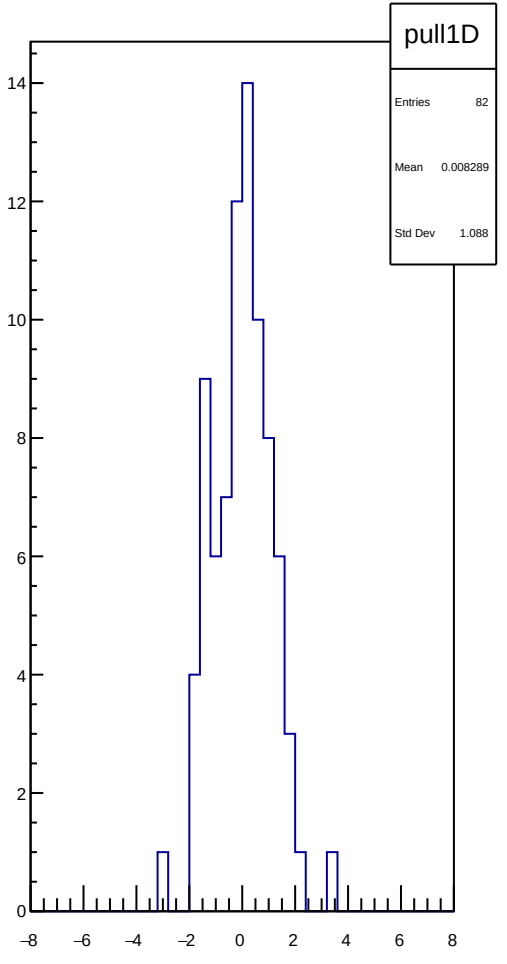

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.946e+04 / 81
p0 111.7 ± 0.08934
240
220
200
180
160
140
120
100
80

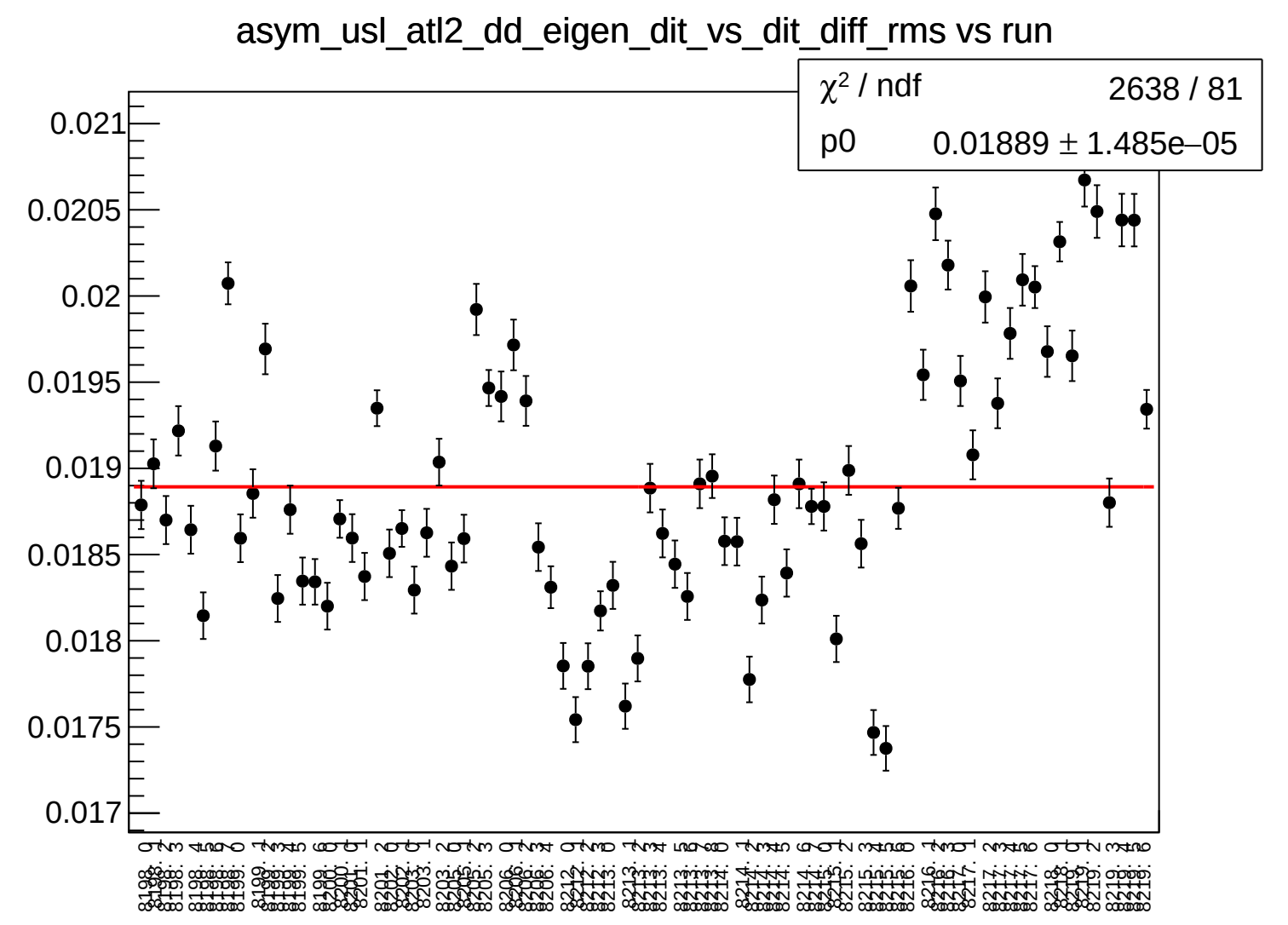

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.46 / 81
p0 −0.04372 ± 0.1263
pull
Entries 82
Mean −586.2
Std Dev 0

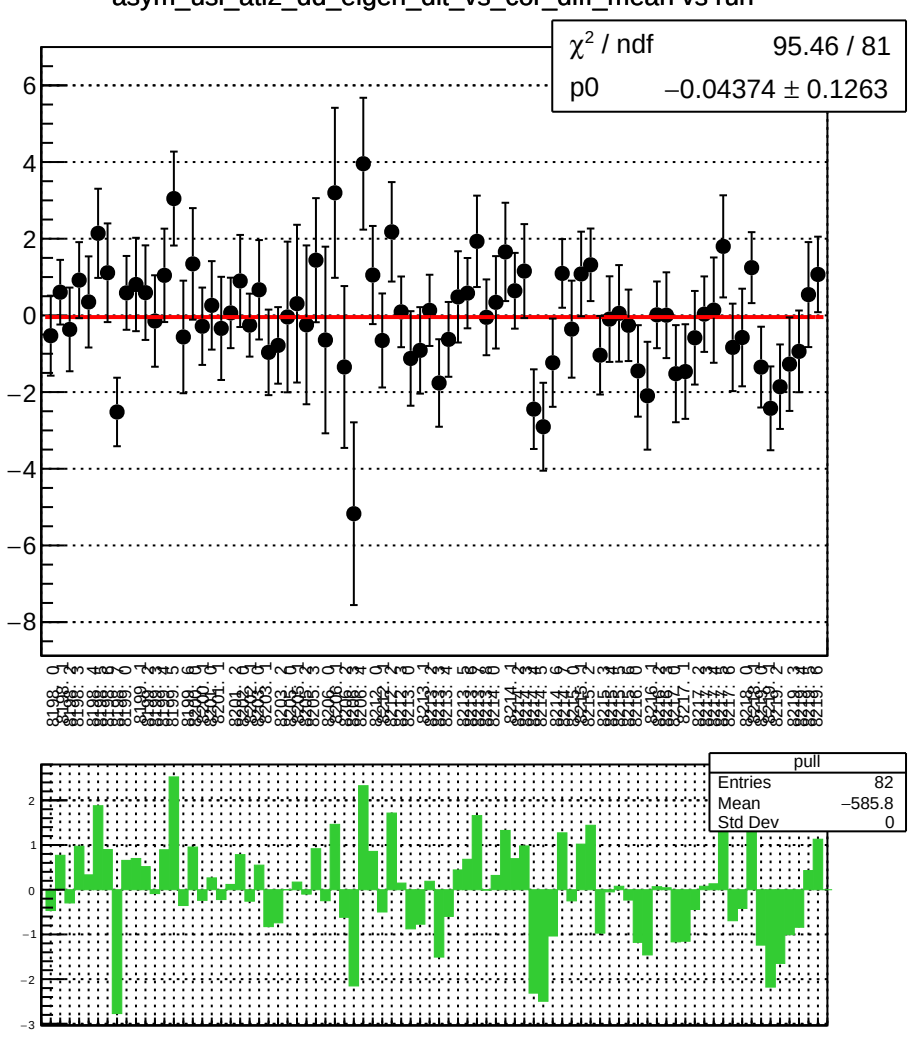

pull1D
Entries 82
Mean 0.009569
Std Dev 1.079

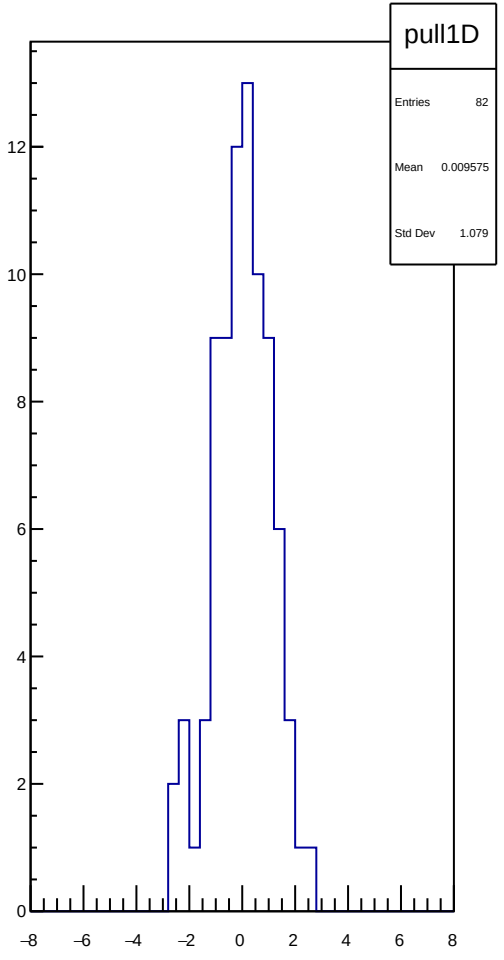

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.946e+04 / 81
p0 111.7 ± 0.08934
240
220
200
180
160
140
120
100
80

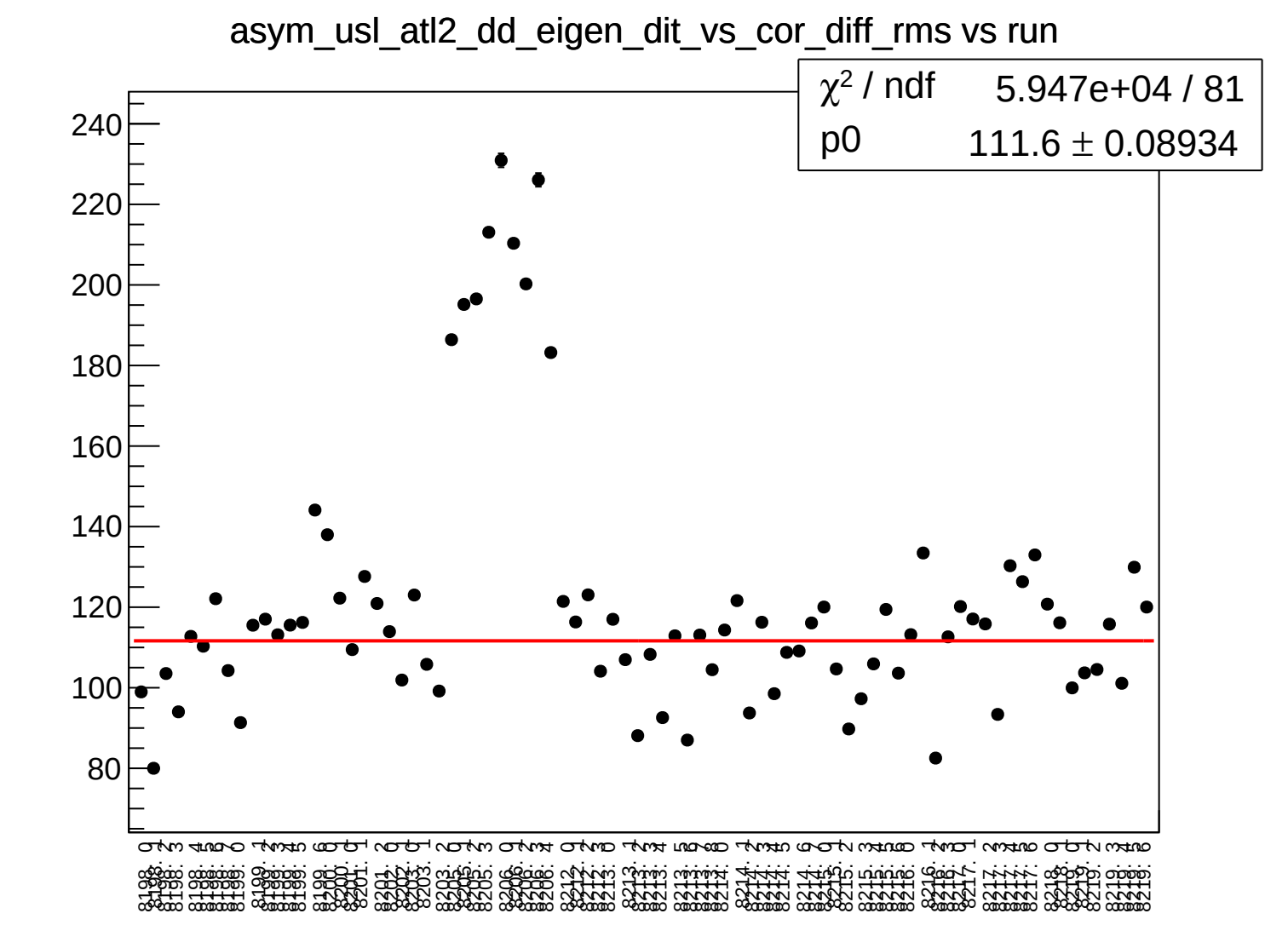

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 97 / 81
p0 −1.355e−05 ± 2.1e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 82
Mean −216.2
Std Dev 0
3
2
1
0
−1
−2
−3

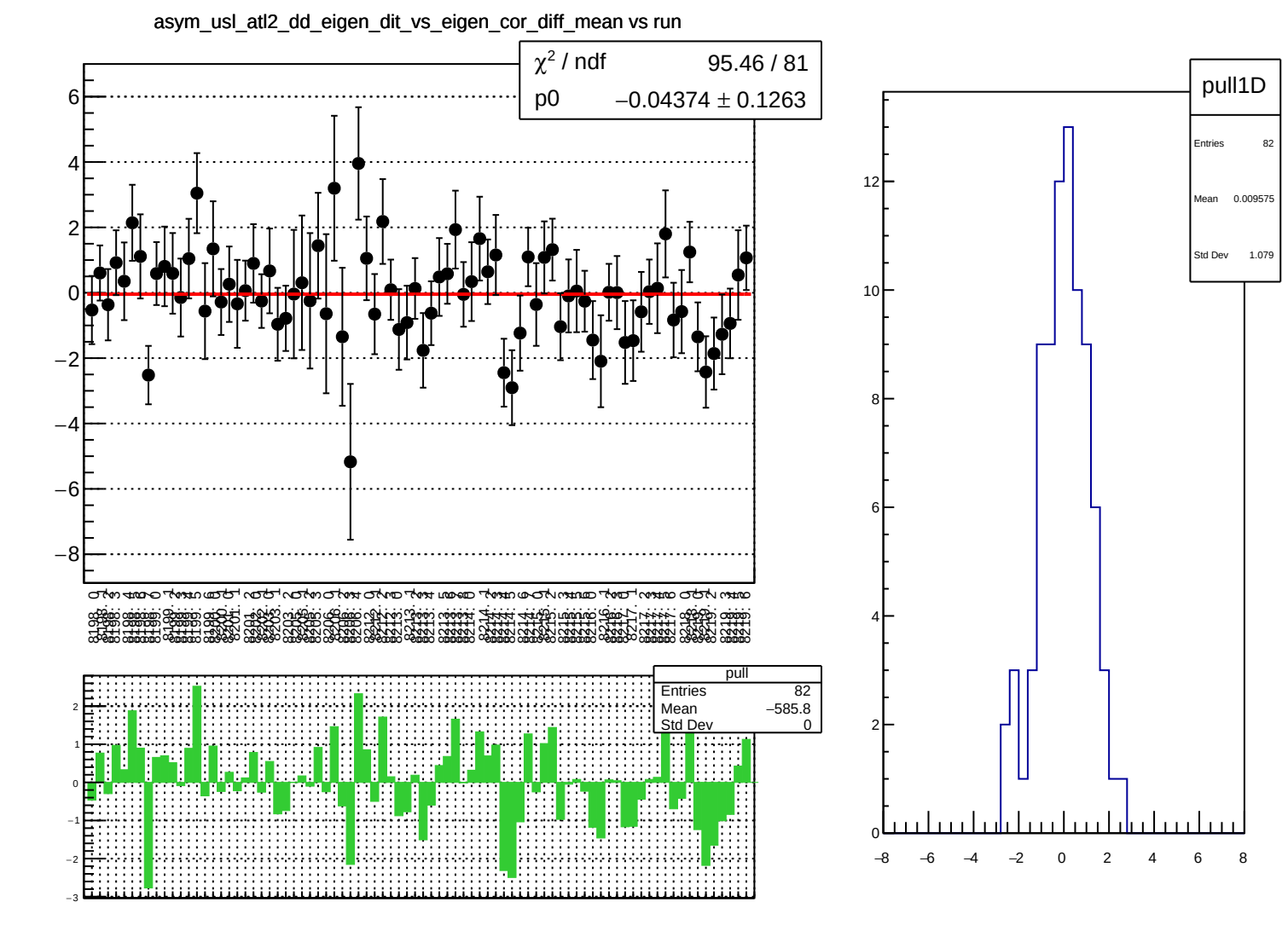

pull1D
Entries 82
Mean 0.008289
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

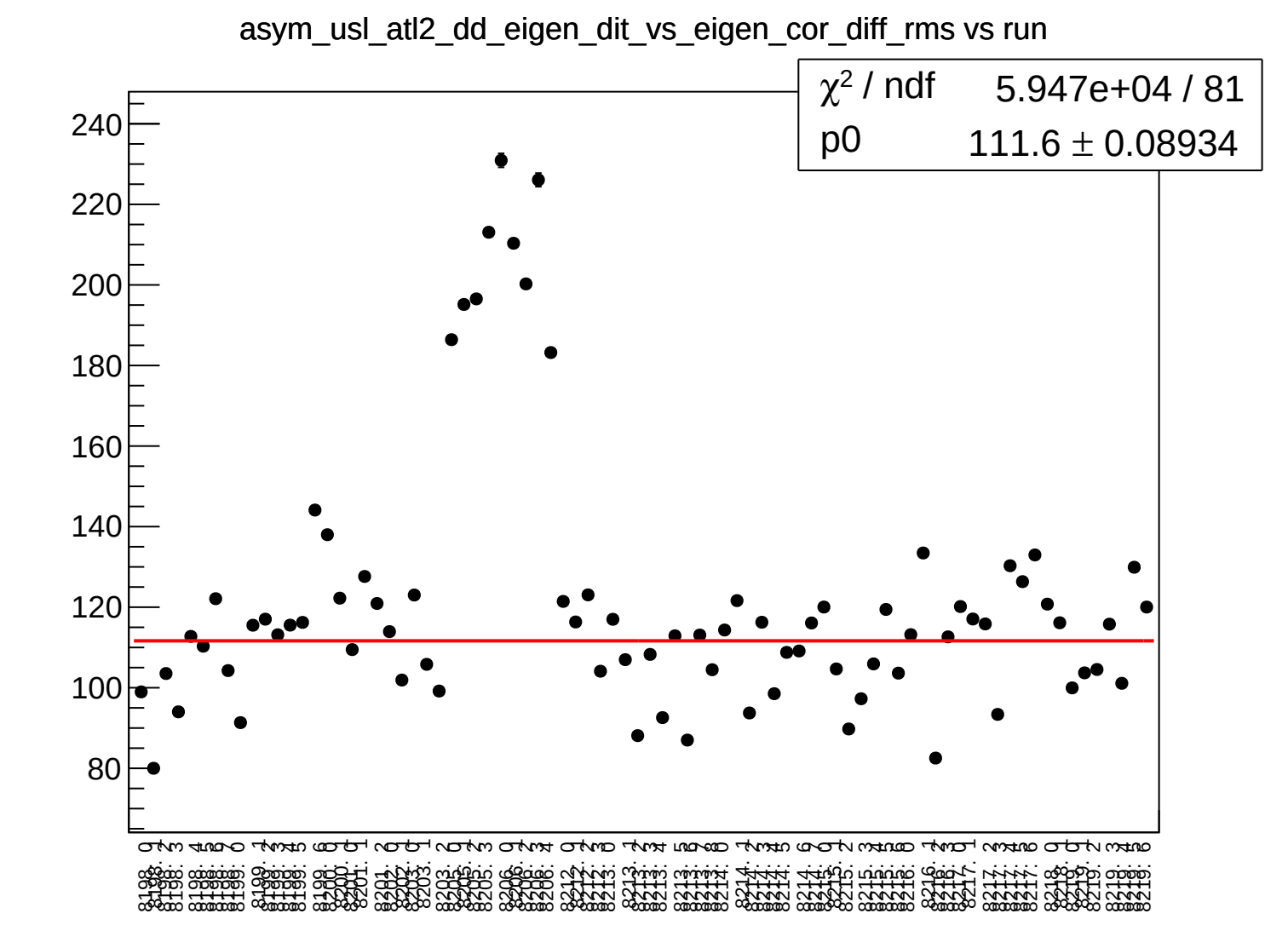

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2638 / 81
p0 0.01889 ± 1.485e−05
0.021
0.0205
0.02
0.0195
0.019
0.0185
0.018
0.0175
0.017

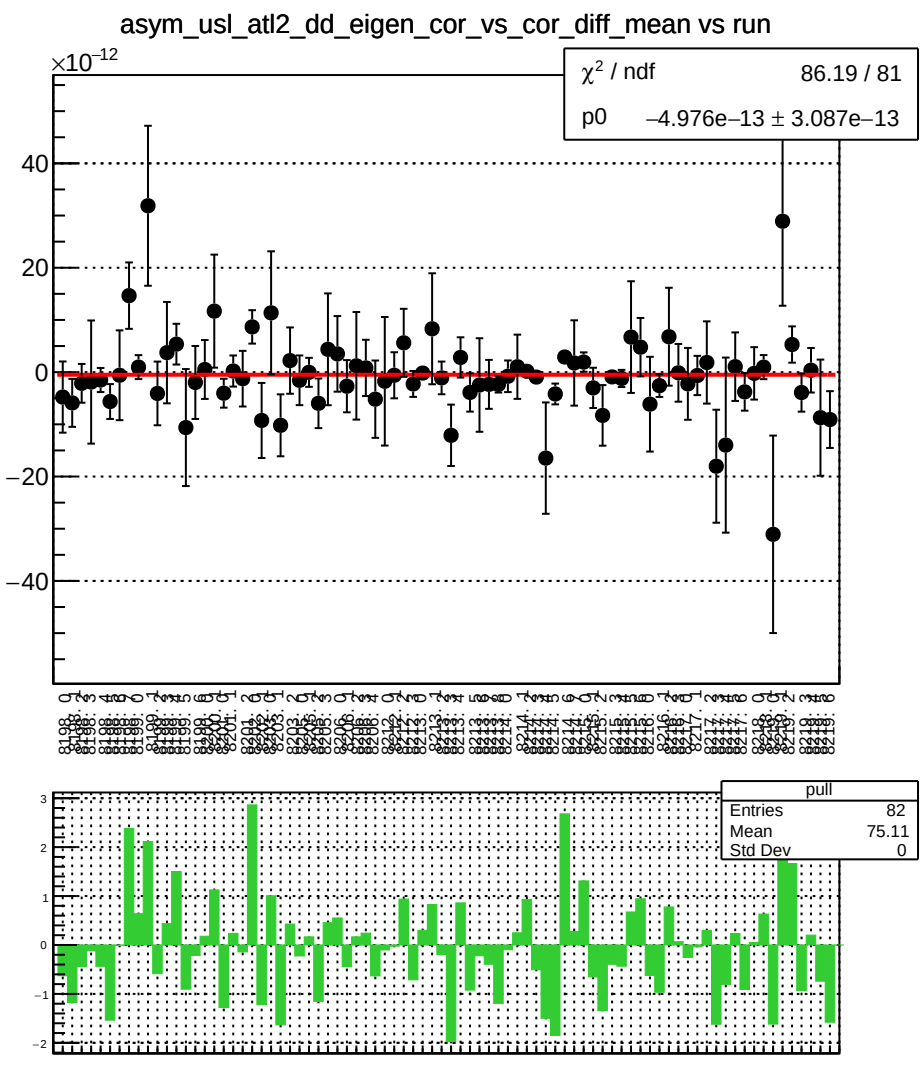

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.46 / 81
p0 −0.04374 ± 0.1263
pull
Entries 82
Mean −585.8
Std Dev 0

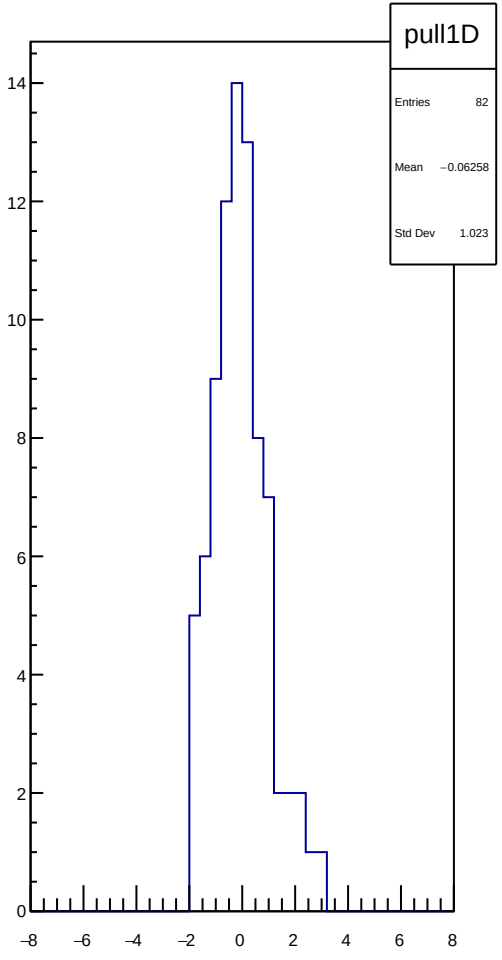

pull1D
Entries 82
Mean 0.009575
Std Dev 1.079

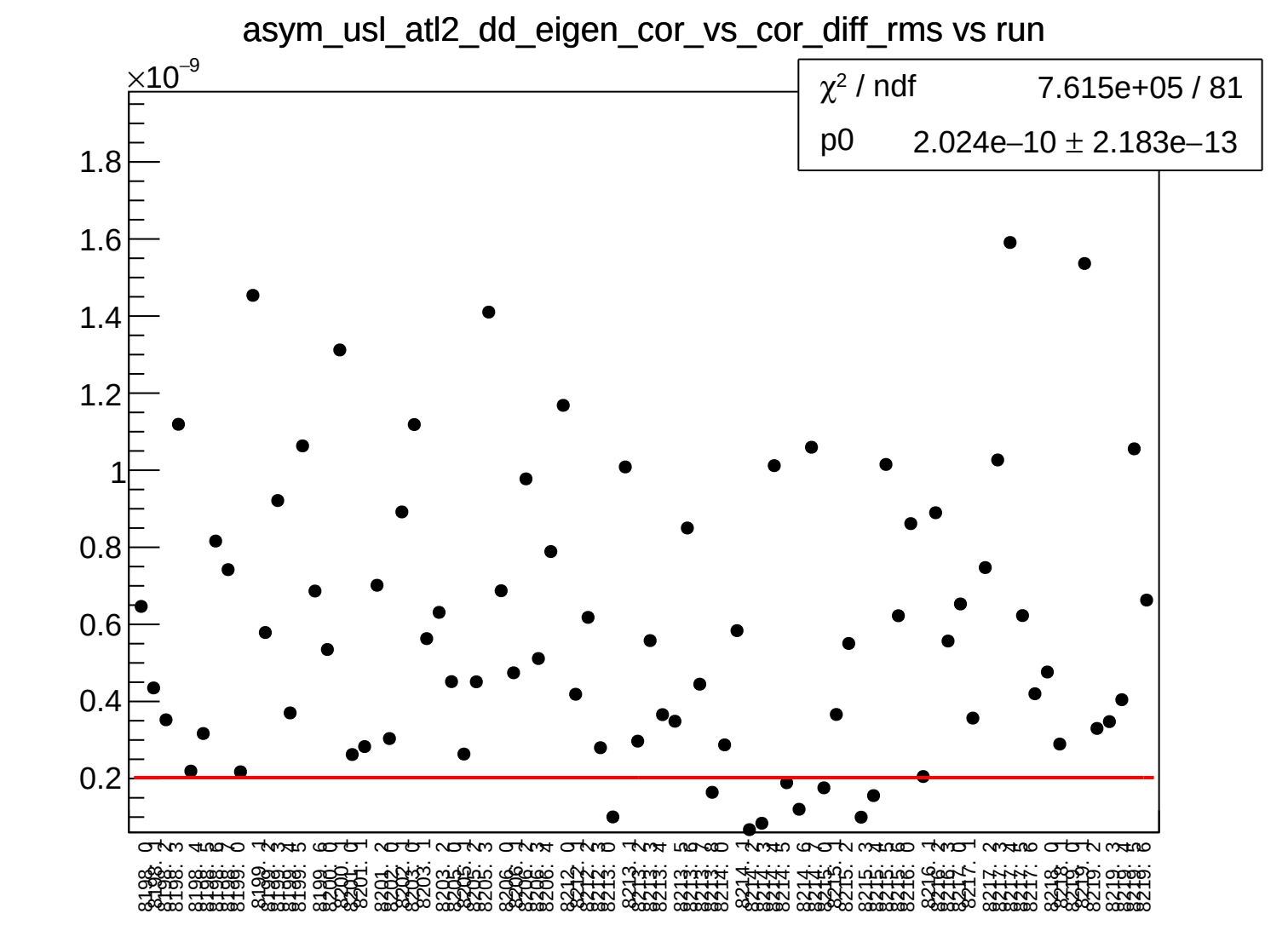

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.947e+04 / 81
p0 111.6 ± 0.08934
240
220
200
180
160
140
120
100
80

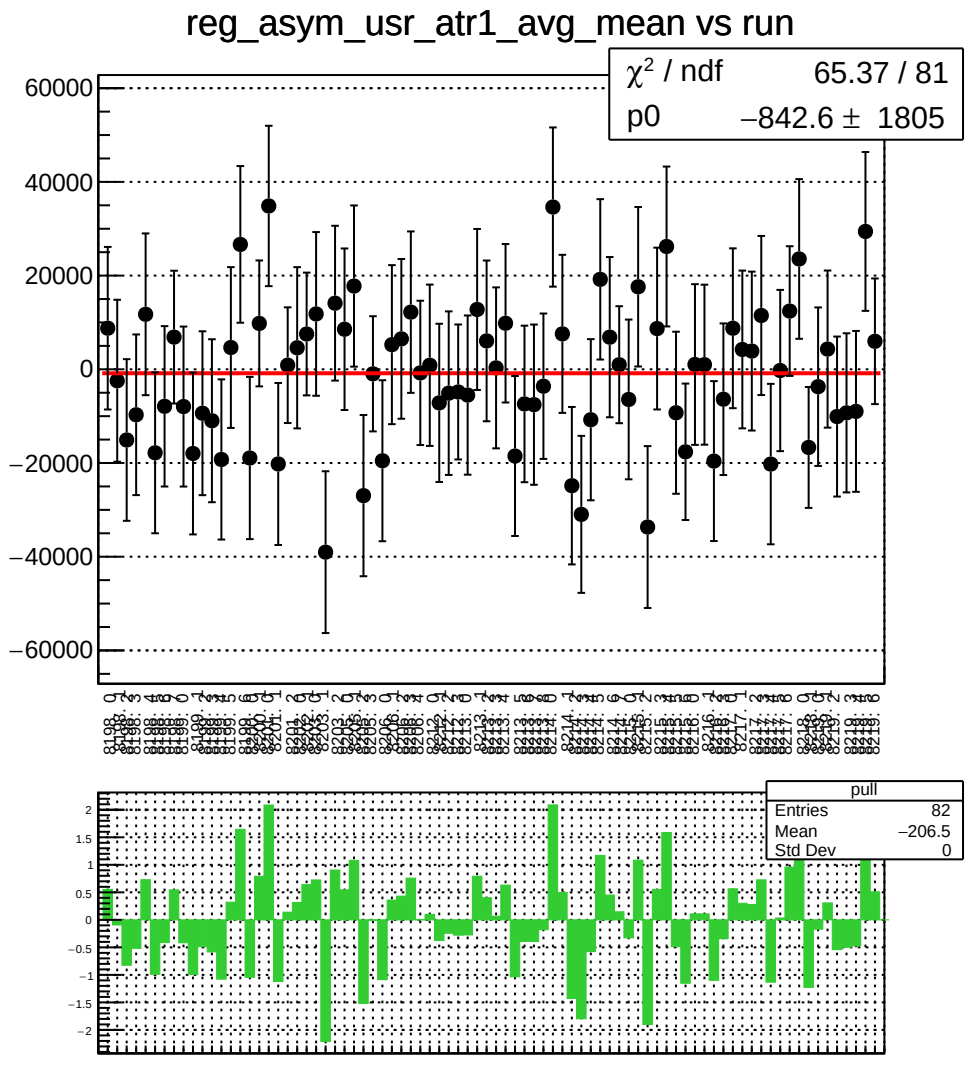

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.46 / 81
p0 −0.04374 ± 0.1263
pull
Entries 82
Mean −585.8
Std Dev 0
pull1D
Entries 82
Mean 0.009575
Std Dev 1.079

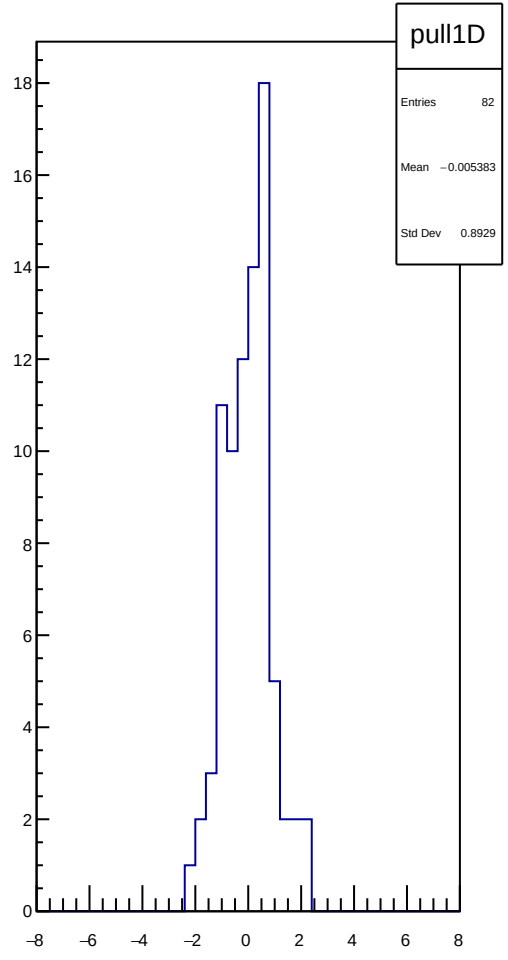

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.947e+04 / 81
p0 111.6 ± 0.08934
240
220
200
180
160
140
120
100
80

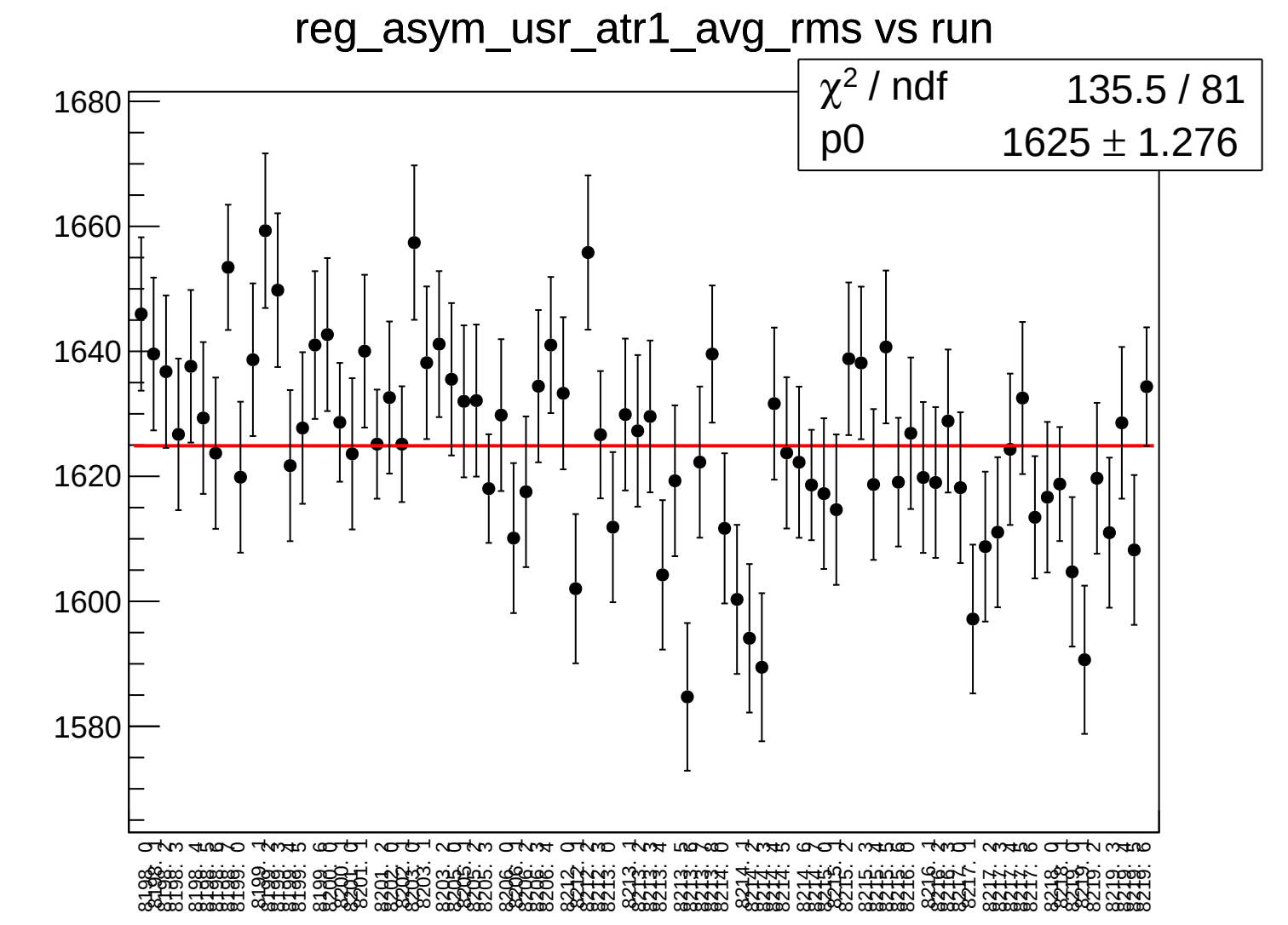

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.19 / 81
p0 −4.976e−13 ± 3.087e−13
40
20
0
−20
−40
pull
Entries 82
Mean 75.11
Std Dev 0
3
2
1
0
−1
−2

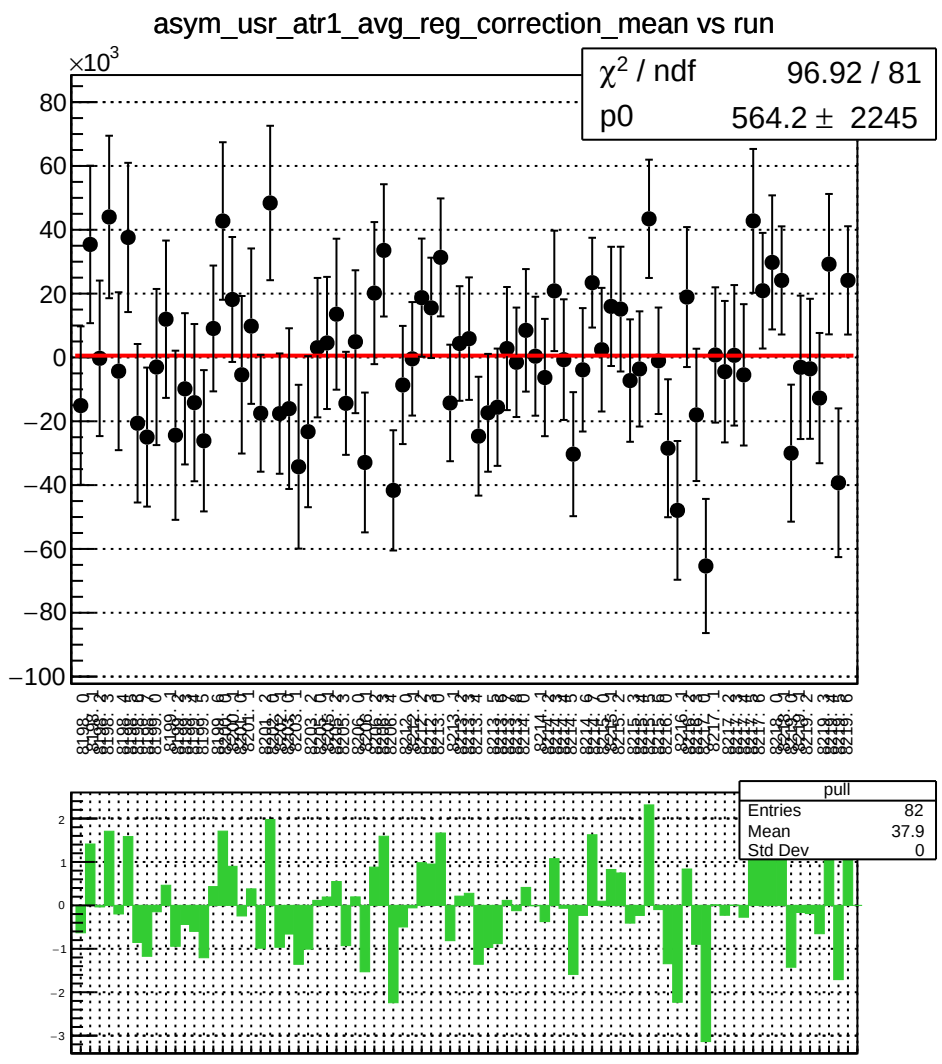

pull1D
Entries 82
Mean −0.06258
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

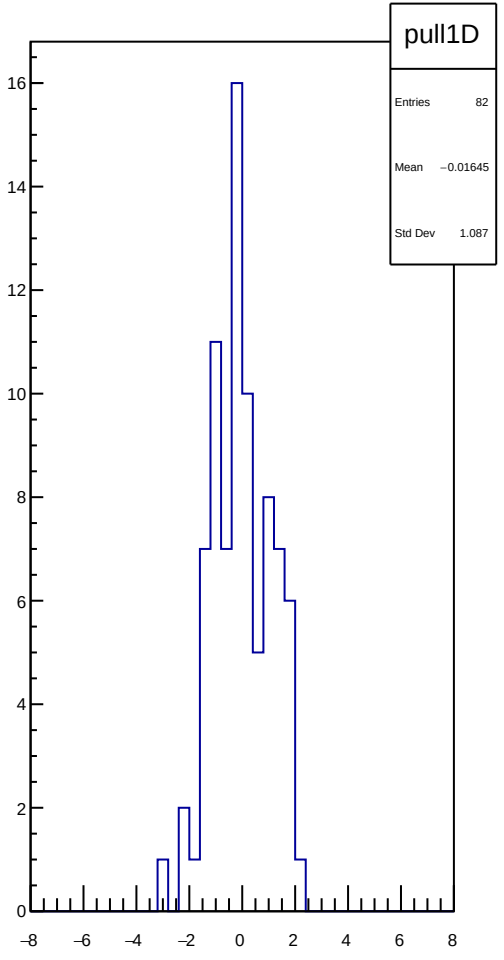

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.615e+05 / 81
p0 2.024e−10 ± 2.183e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

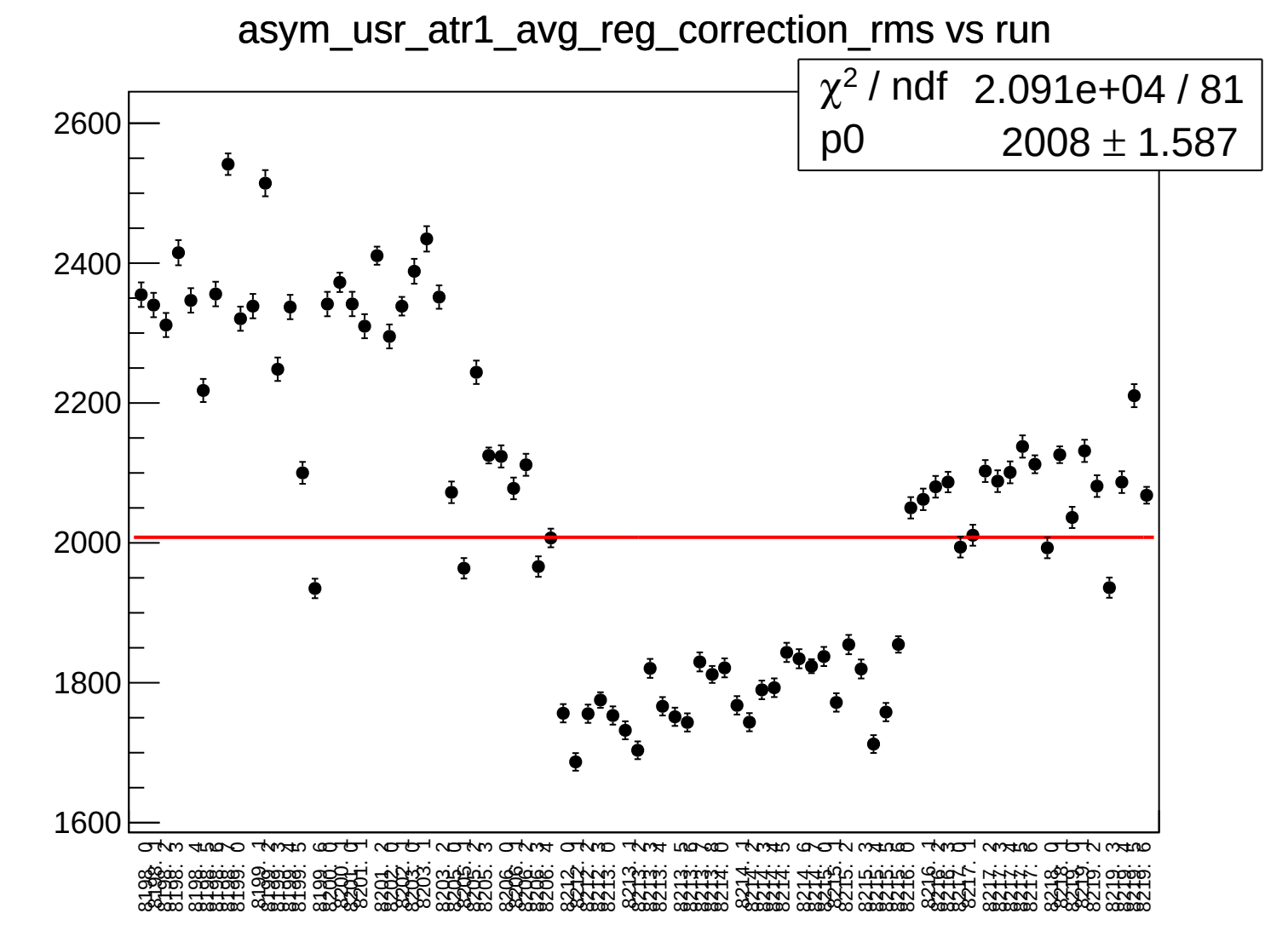

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 65.37 / 81
p0 −842.6 ± 1805
pull
Entries 82
Mean −206.5
Std Dev 0

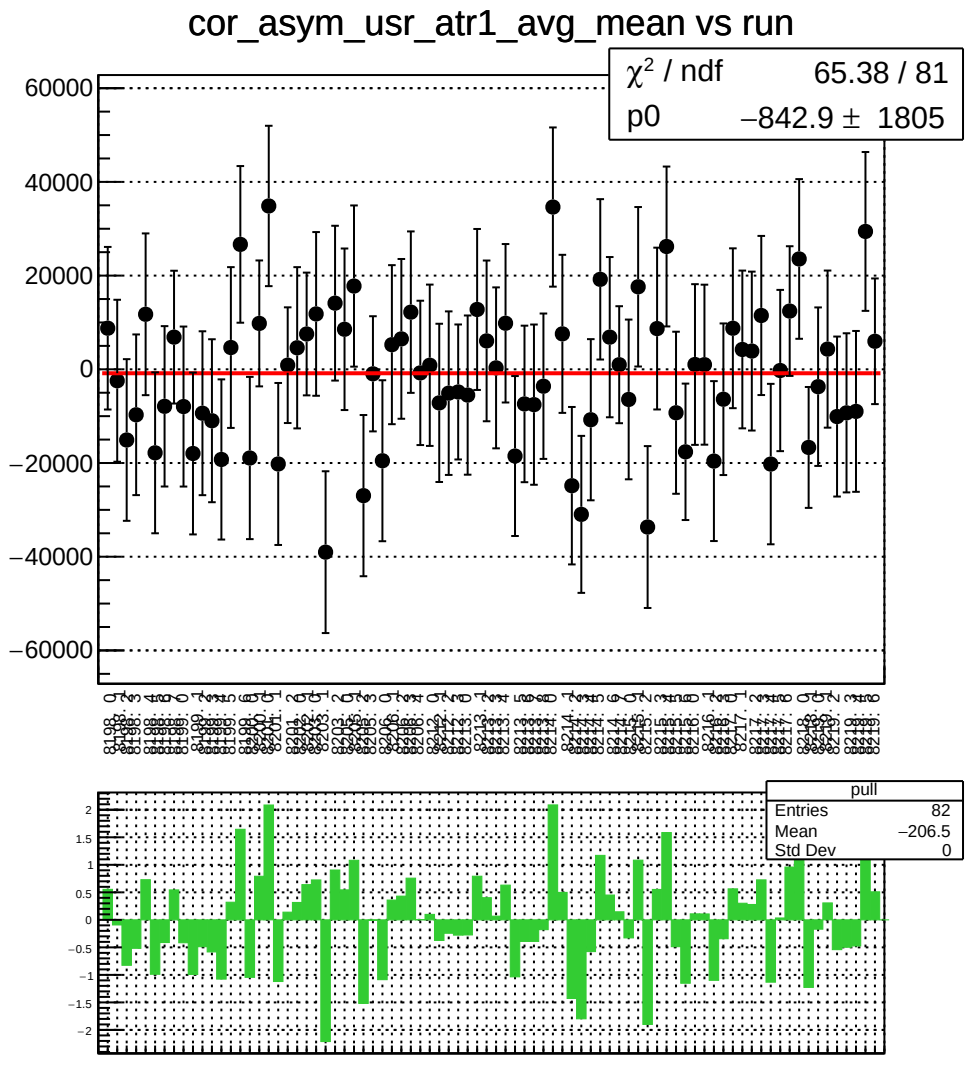

pull1D
Entries 82
Mean −0.005383
Std Dev 0.8929

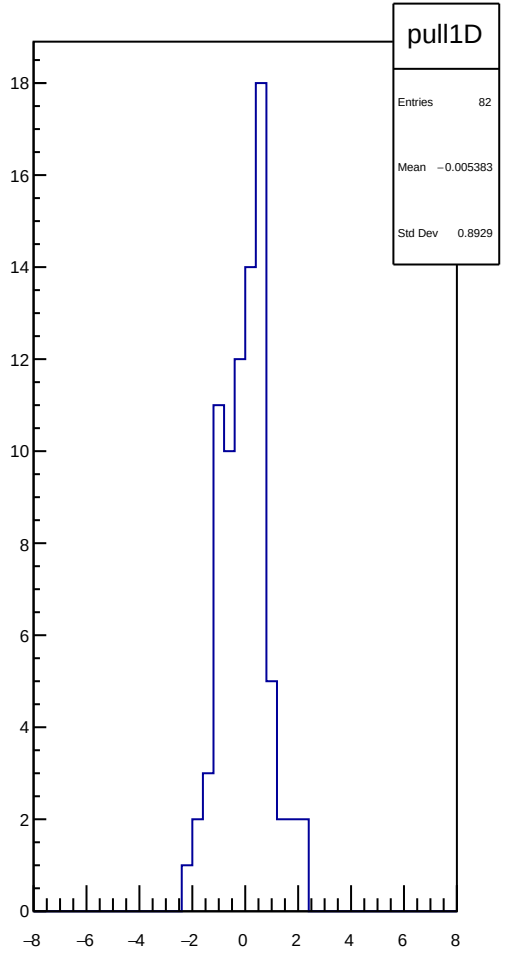

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 135.5 / 81
p0 1625 ± 1.276
1680
1660
1640
1620
1600
1580

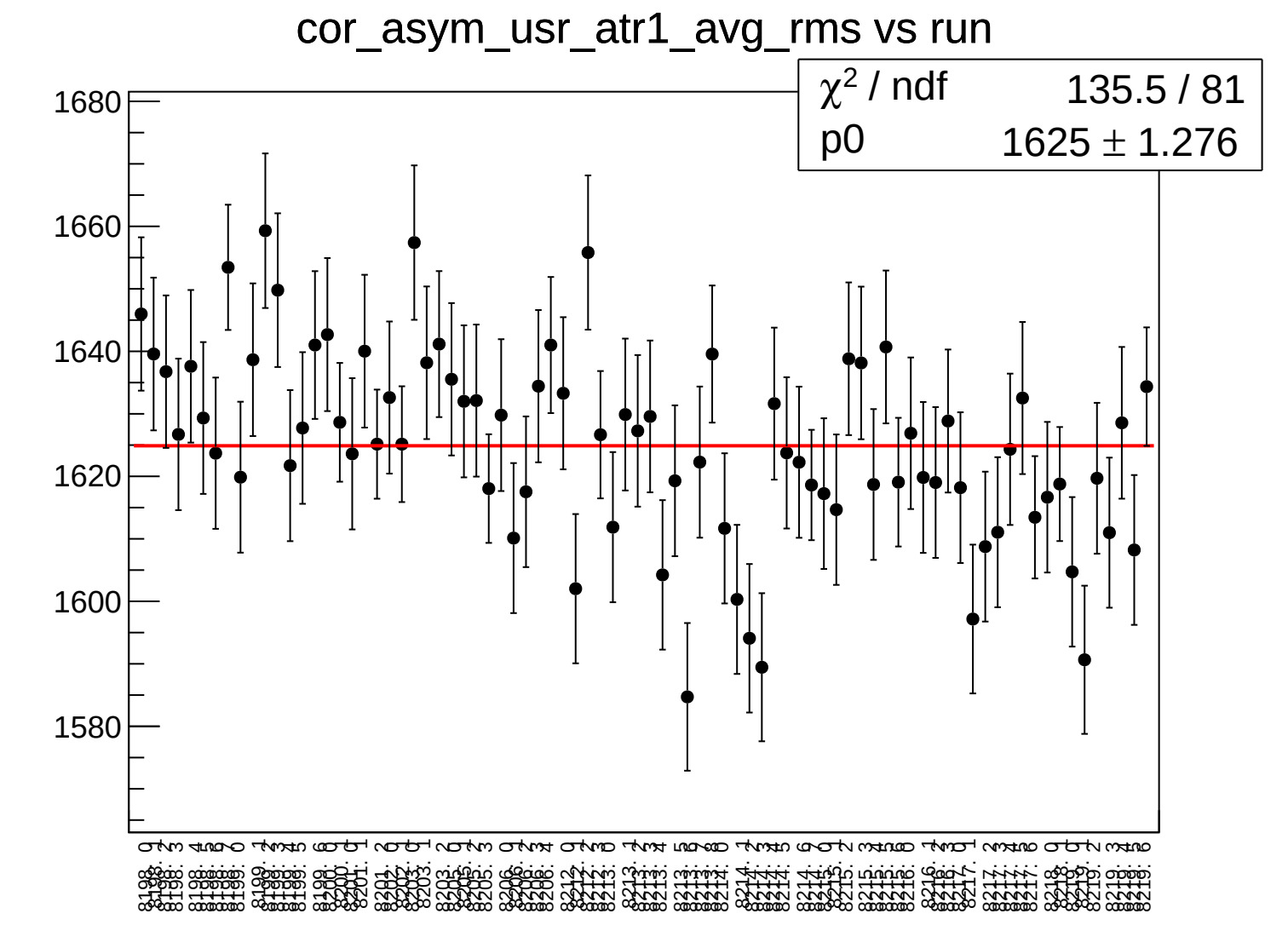

asym_usr_atr1_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.92 / 81
p0 564.2 ± 2245
pull
Entries 82
Mean 37.9
Std Dev 0

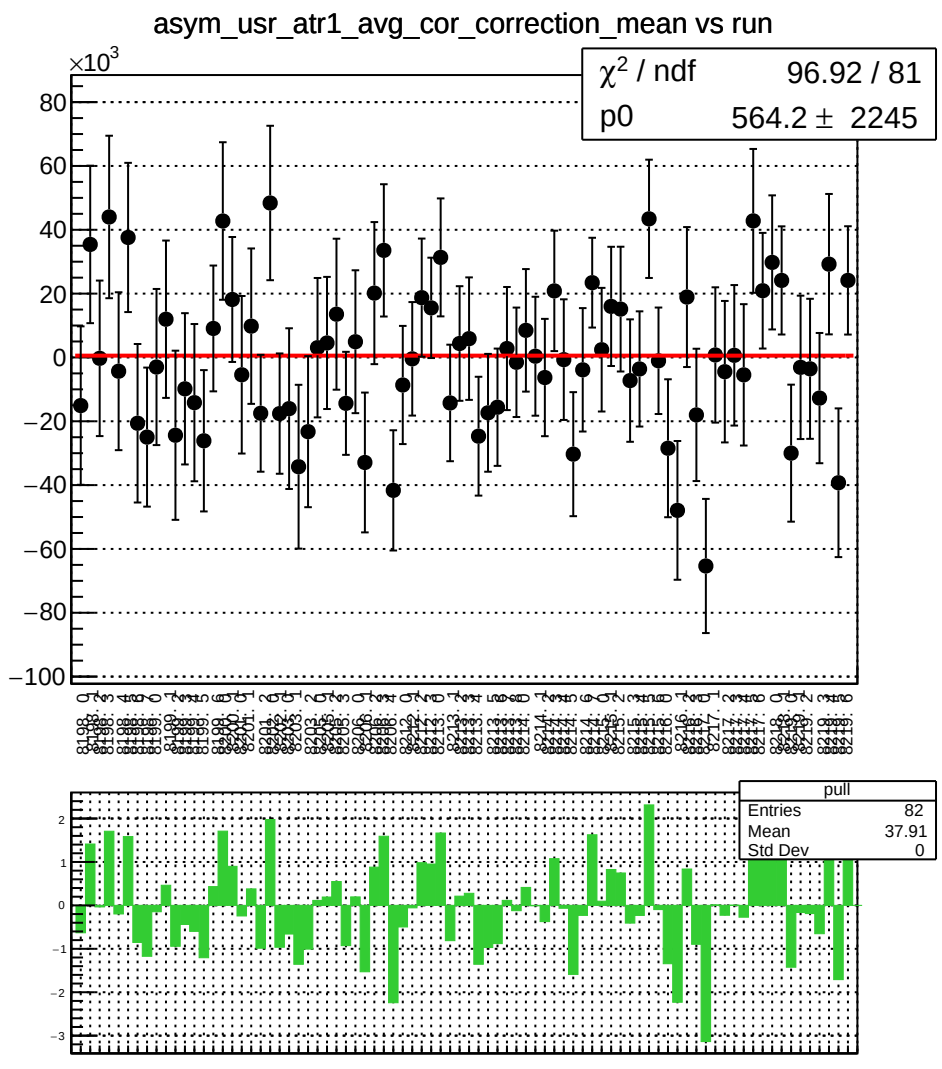

pull1D
Entries 82
Mean −0.01645
Std Dev 1.087

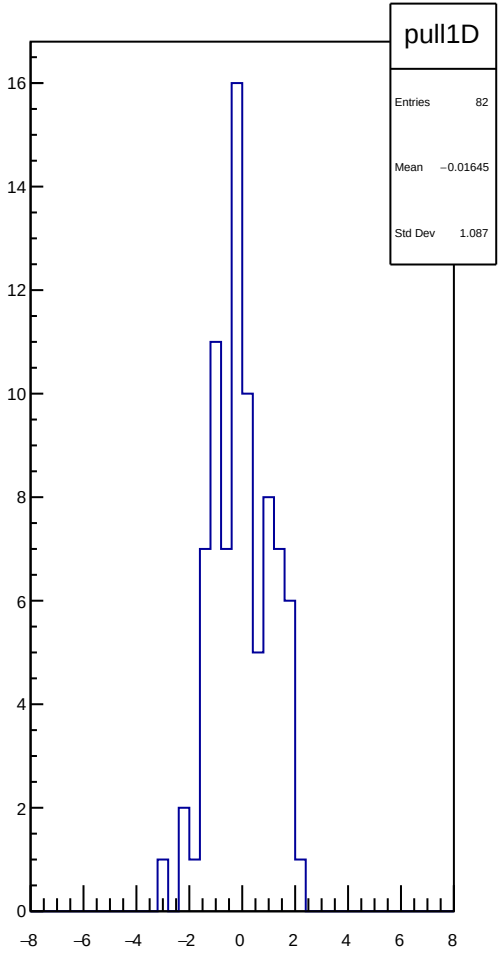

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 2.091e+04 / 81
p0 2008 ± 1.587
2600
2400
2200
2000
1800
1600

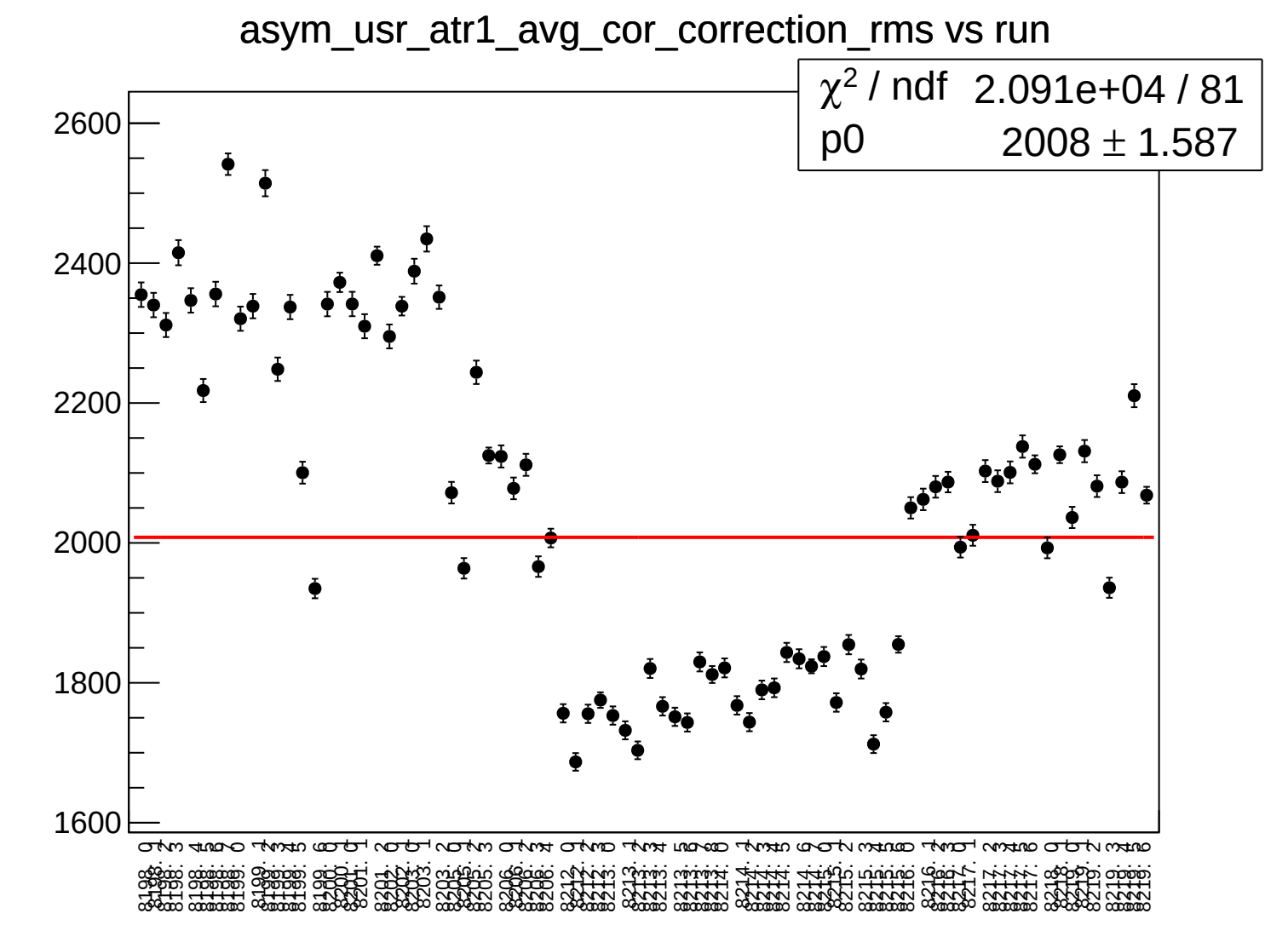

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 65.38 / 81
p0 −842.9 ± 1805
pull
Entries 82
Mean −206.5
Std Dev 0

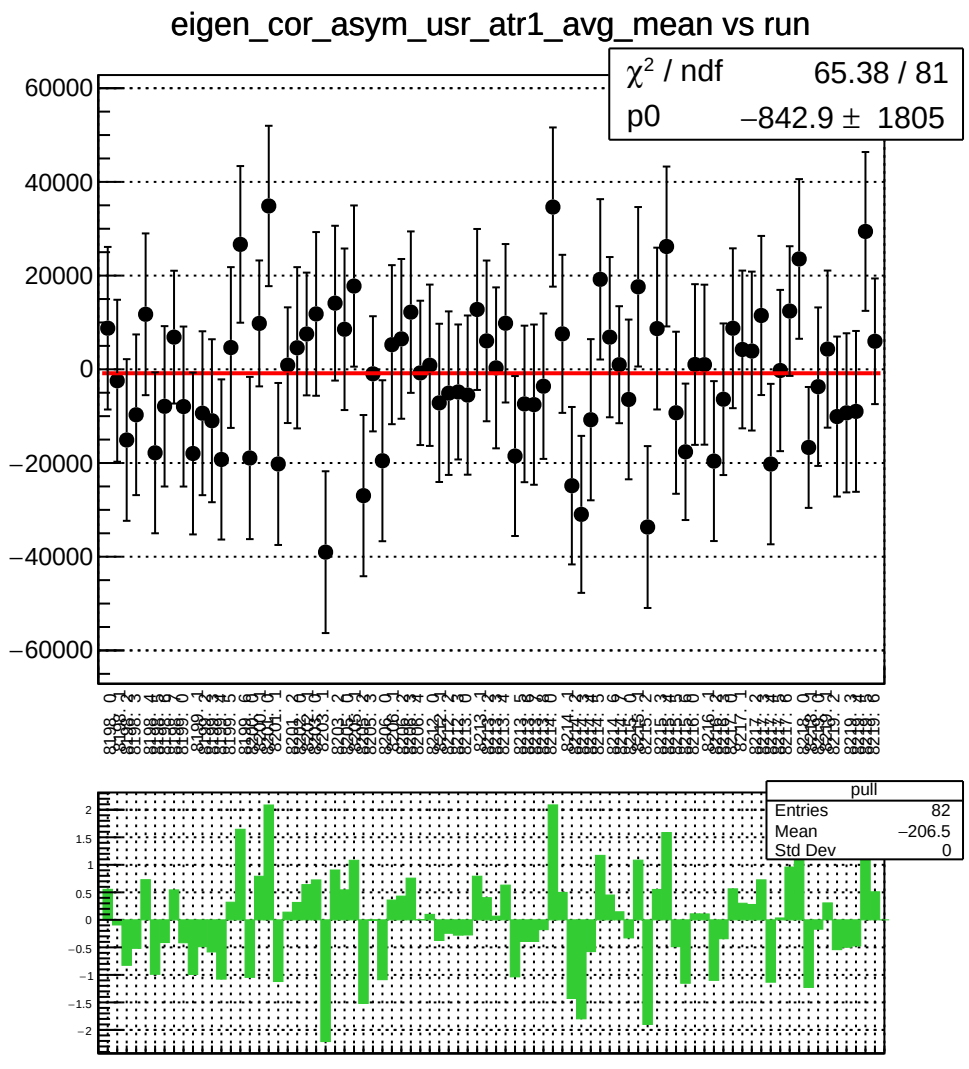

pull1D
Entries 82
Mean −0.005383
Std Dev 0.8929

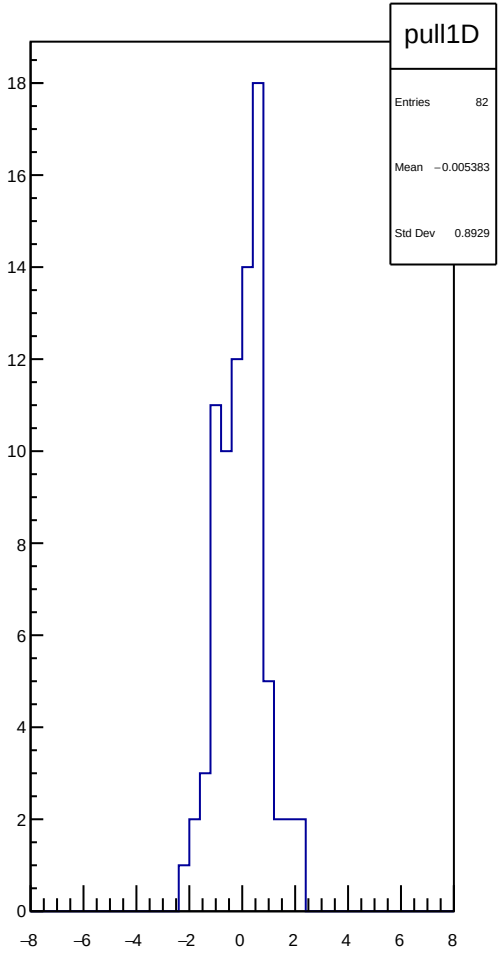

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 135.5 / 81
p0 1625 ± 1.276
1680
1660
1640
1620
1600
1580

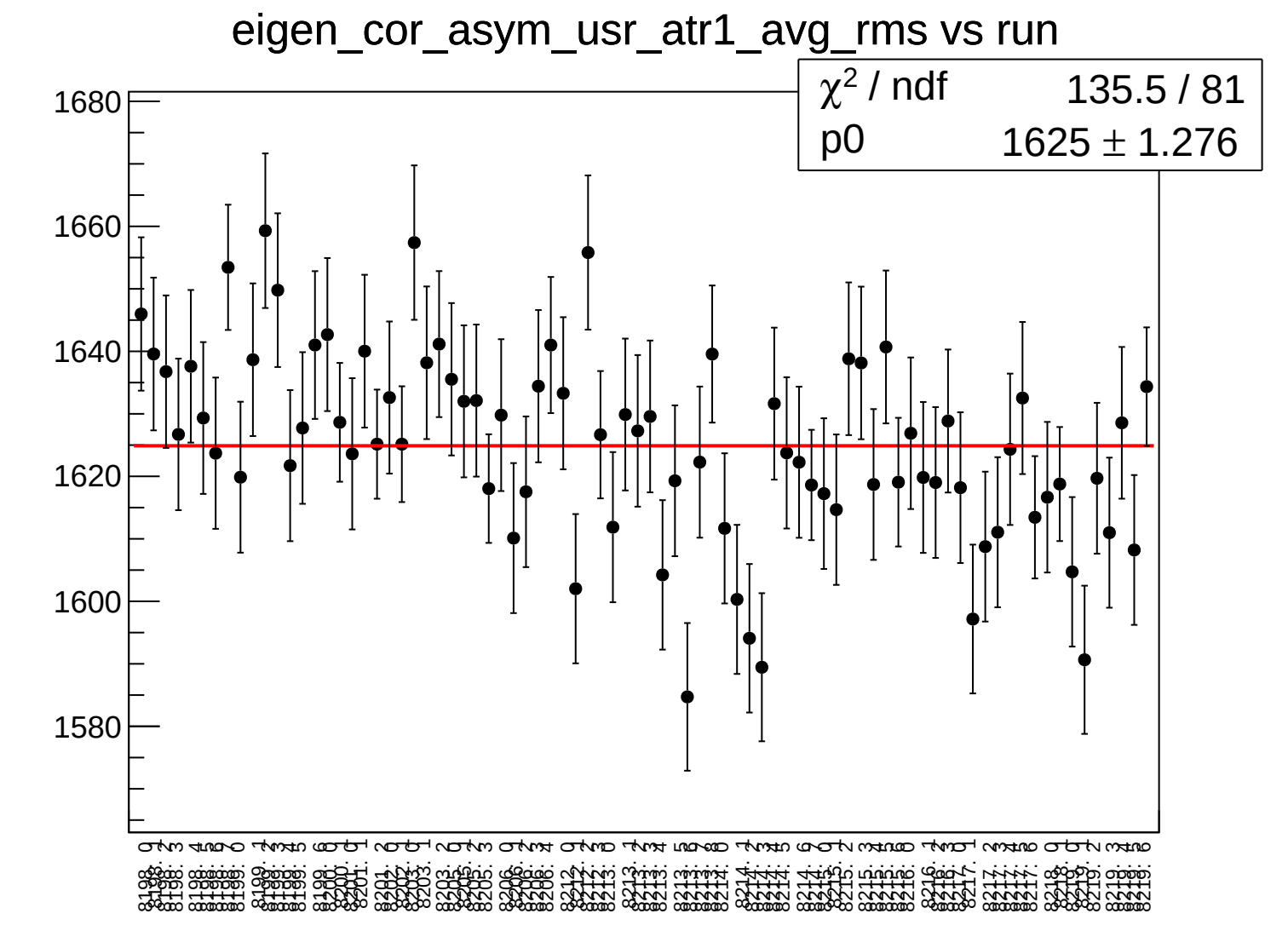

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 96.92 / 81
p0 564.2 ± 2245
×10³
pull
Entries 82
Mean 37.91
Std Dev 0

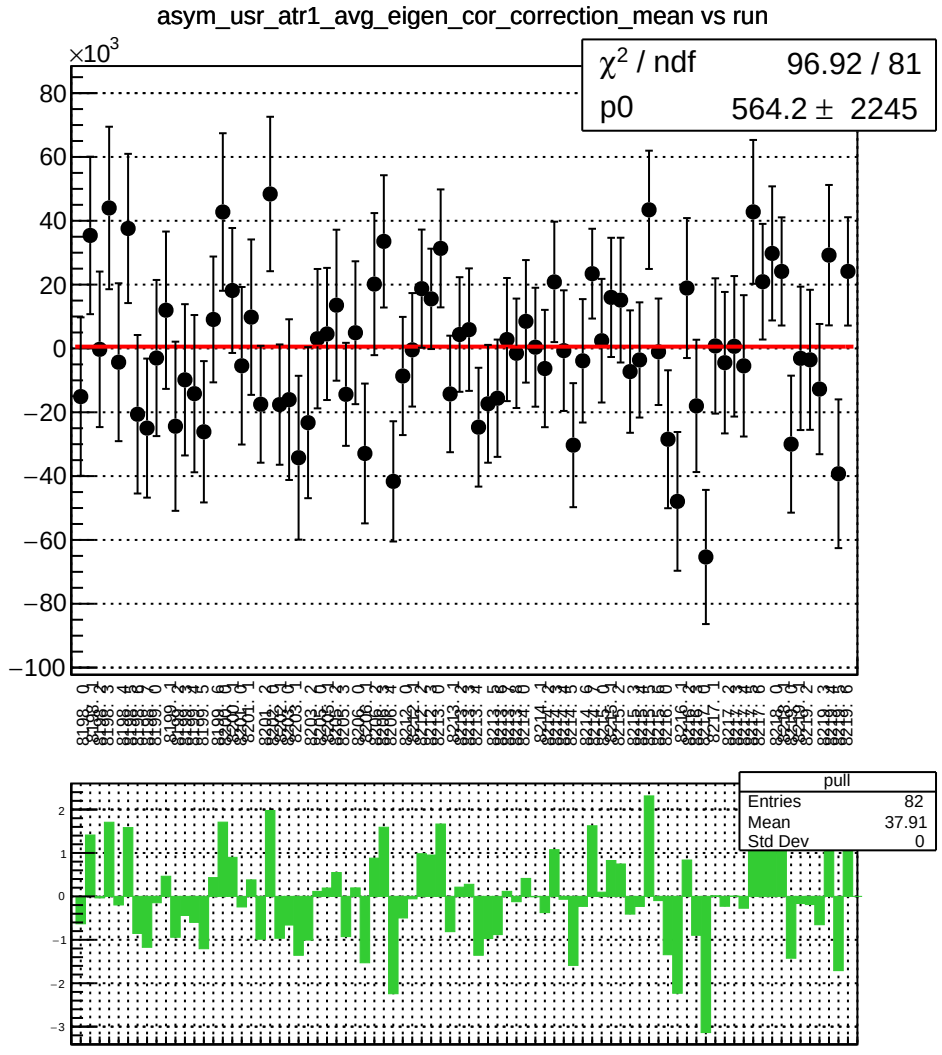

pull1D
Entries 82
Mean −0.01645
Std Dev 1.087

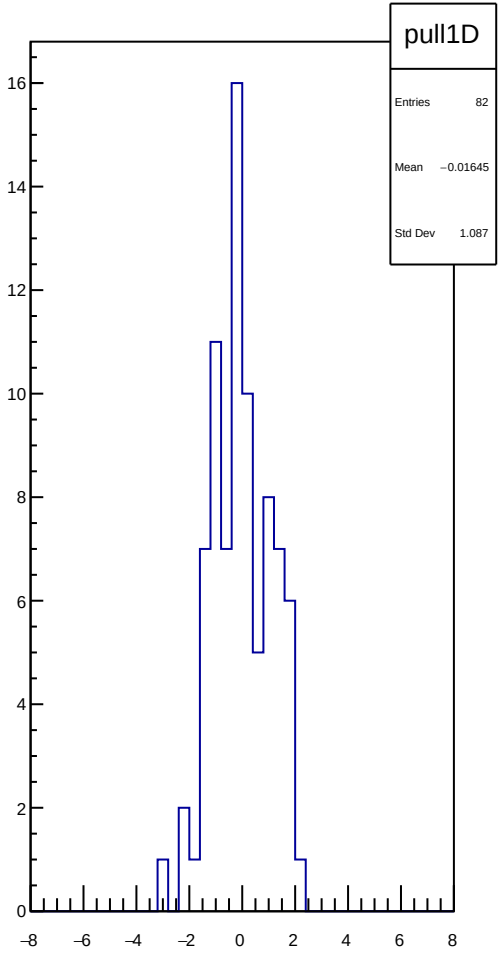

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 2.091e+04 / 81
p0 2008 ± 1.587
2600
2400
2200
2000
1800
1600

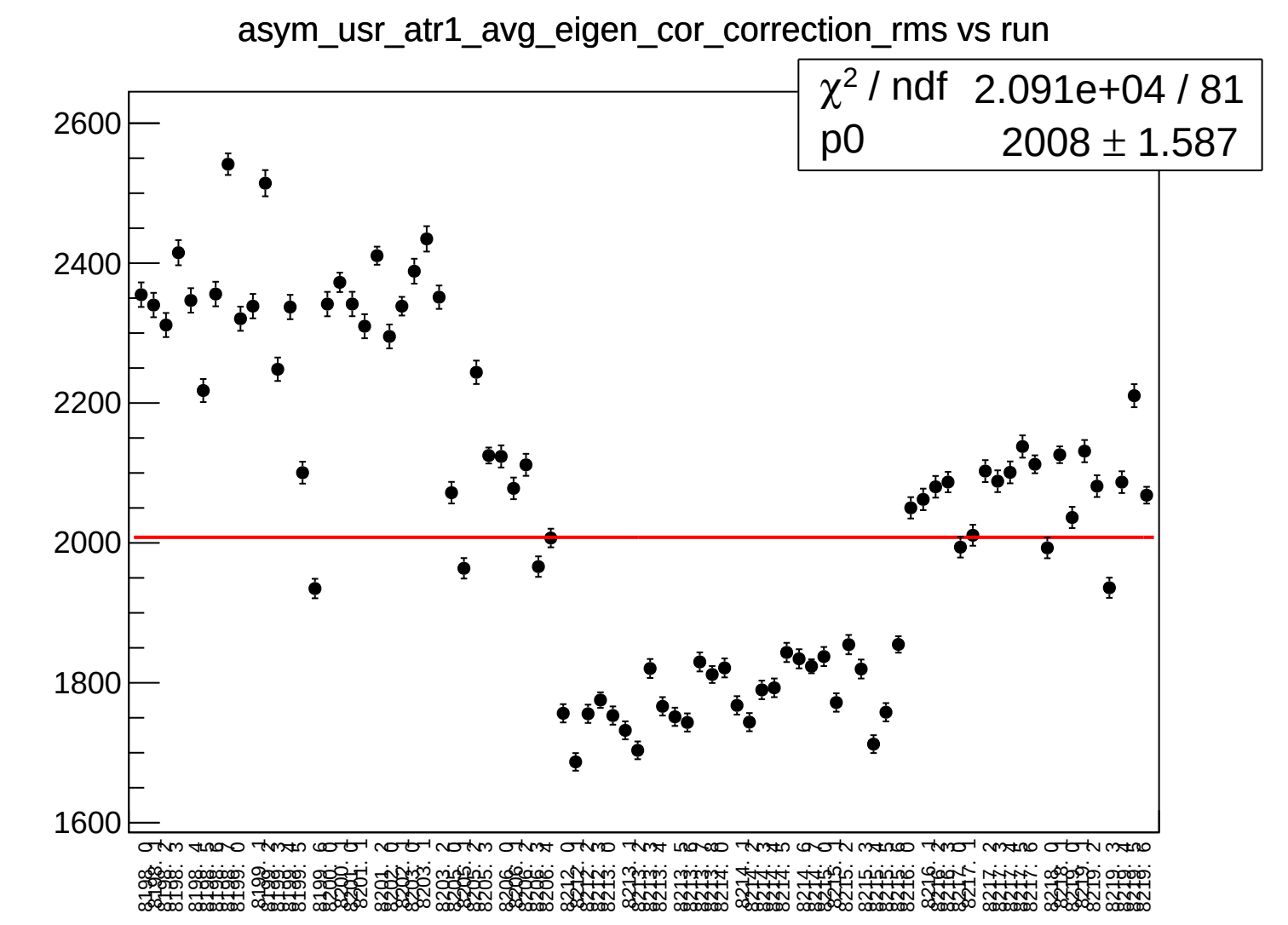

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 65.38 / 81
p0 −842.9 ± 1805
pull
Entries 82
Mean −206.5
Std Dev 0

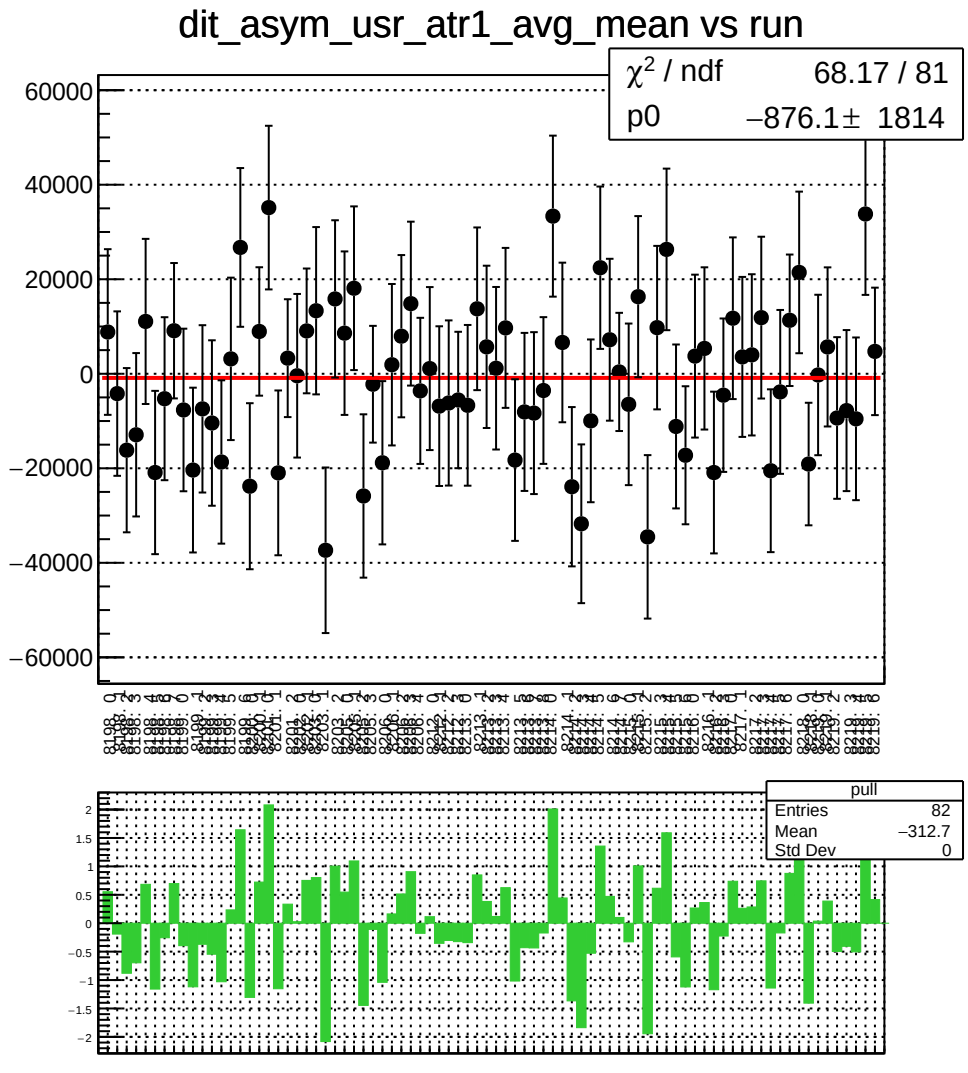

pull1D
Entries 82
Mean −0.005383
Std Dev 0.8929

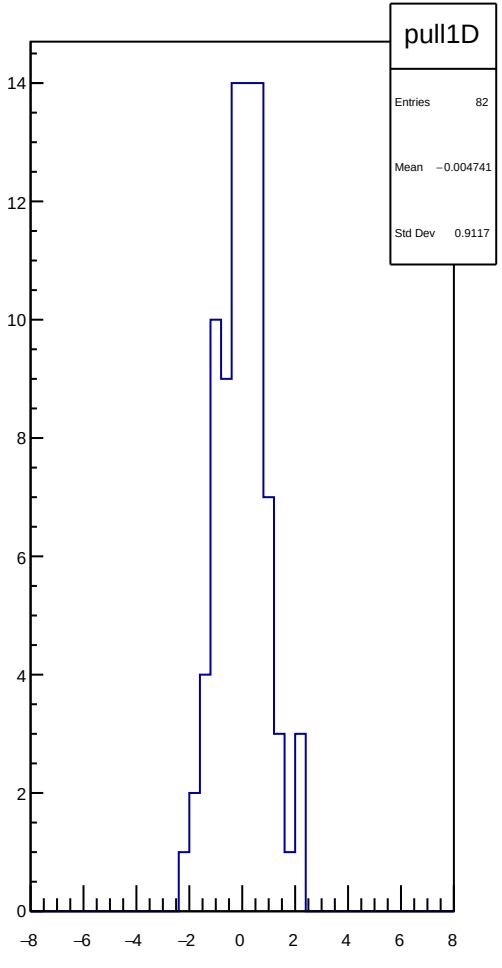

eigen_cor_asym_usr_atr1_avg_rms vs run
$\chi^2$ / ndf 135.5 / 81
p0 1625 ± 1.276
1680
1660
1640
1620
1600
1580

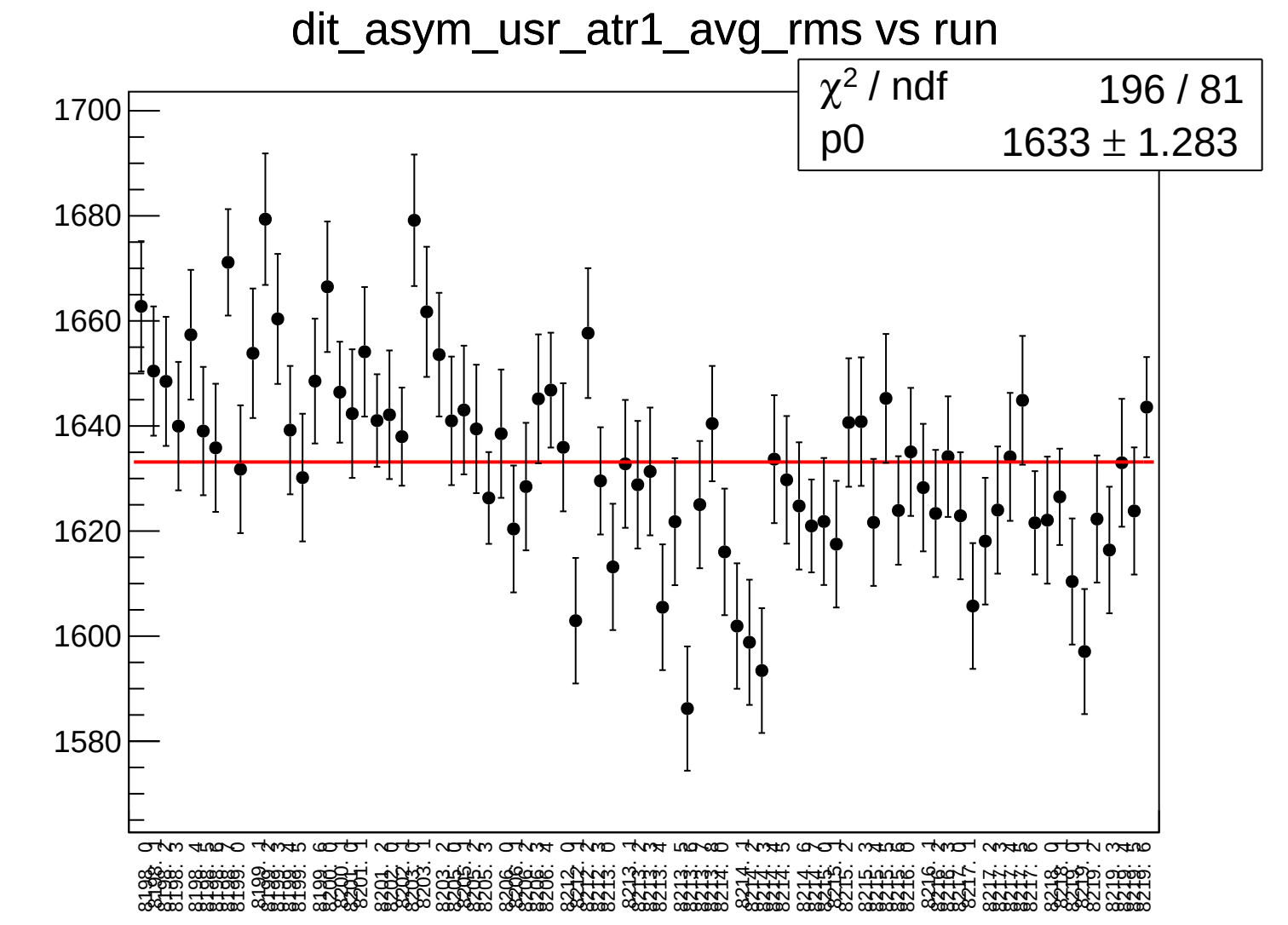

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.92 / 81
p0 564.2 ± 2245
×10³
pull
Entries 82
Mean 37.91
Std Dev 0

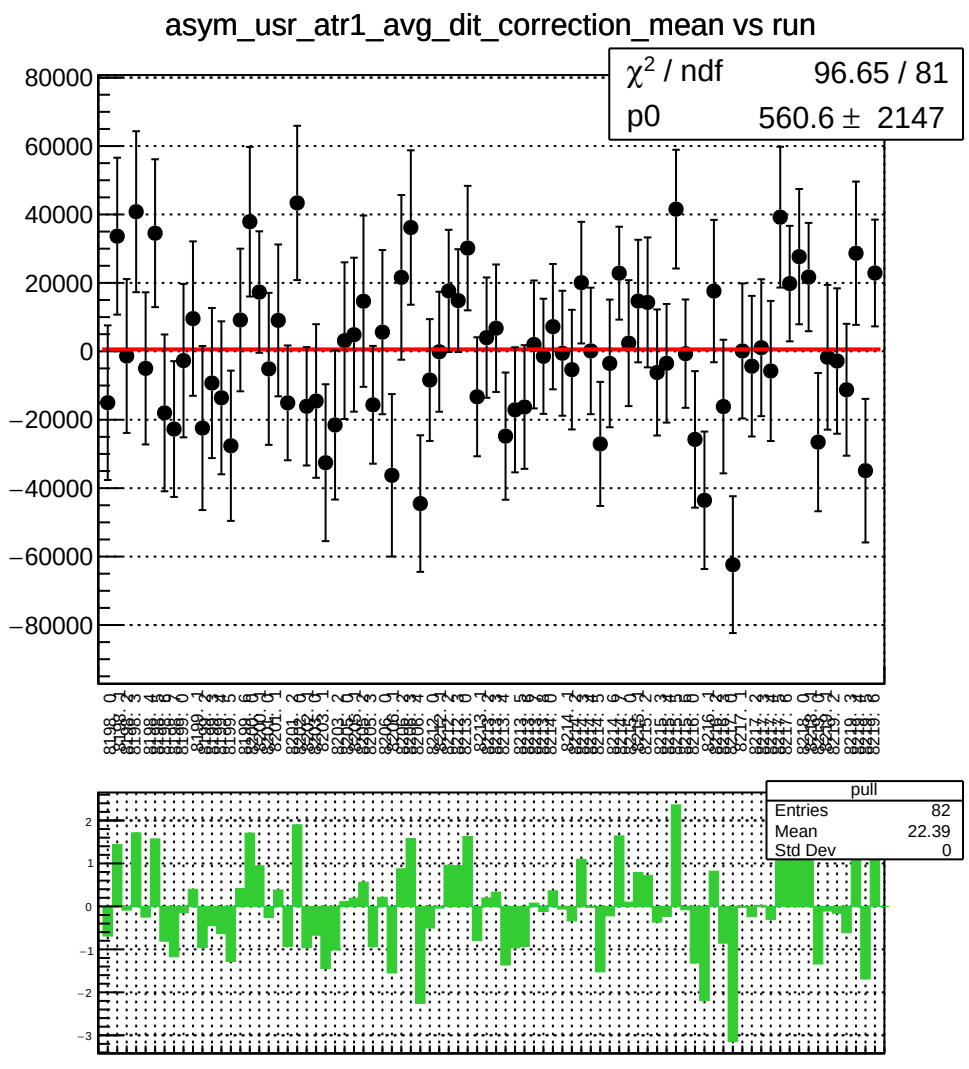

pull1D
Entries 82
Mean −0.01645
Std Dev 1.087

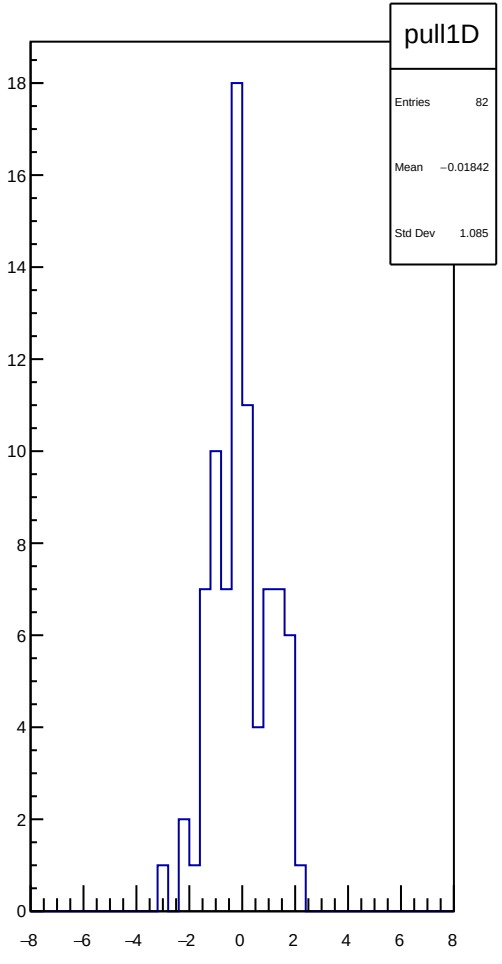

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.091e+04 / 81
p0 2008 ± 1.587
2600
2400
2200
2000
1800
1600

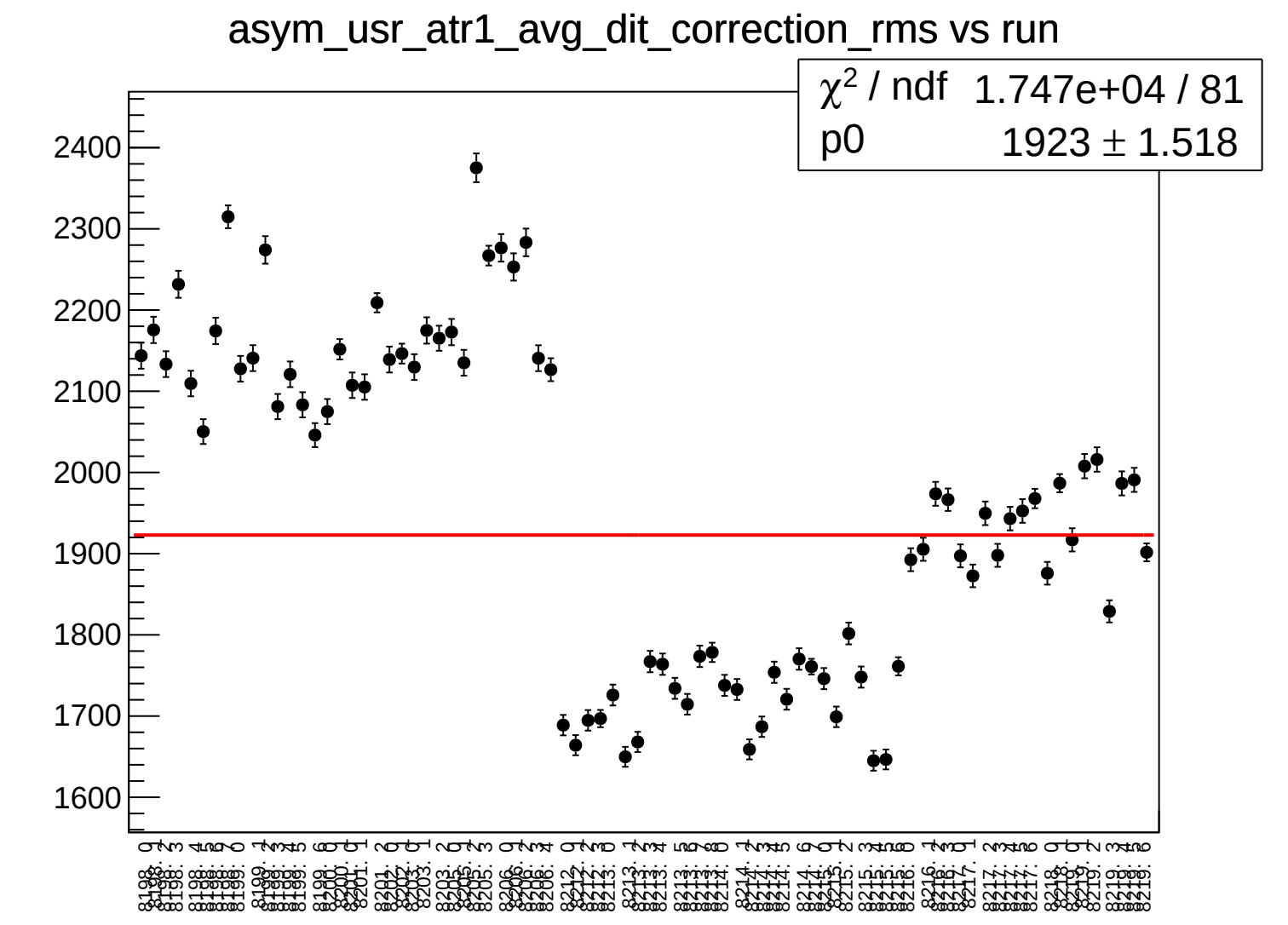

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 68.17 / 81
p0 −876.1± 1814
pull
Entries 82
Mean −312.7
Std Dev 0

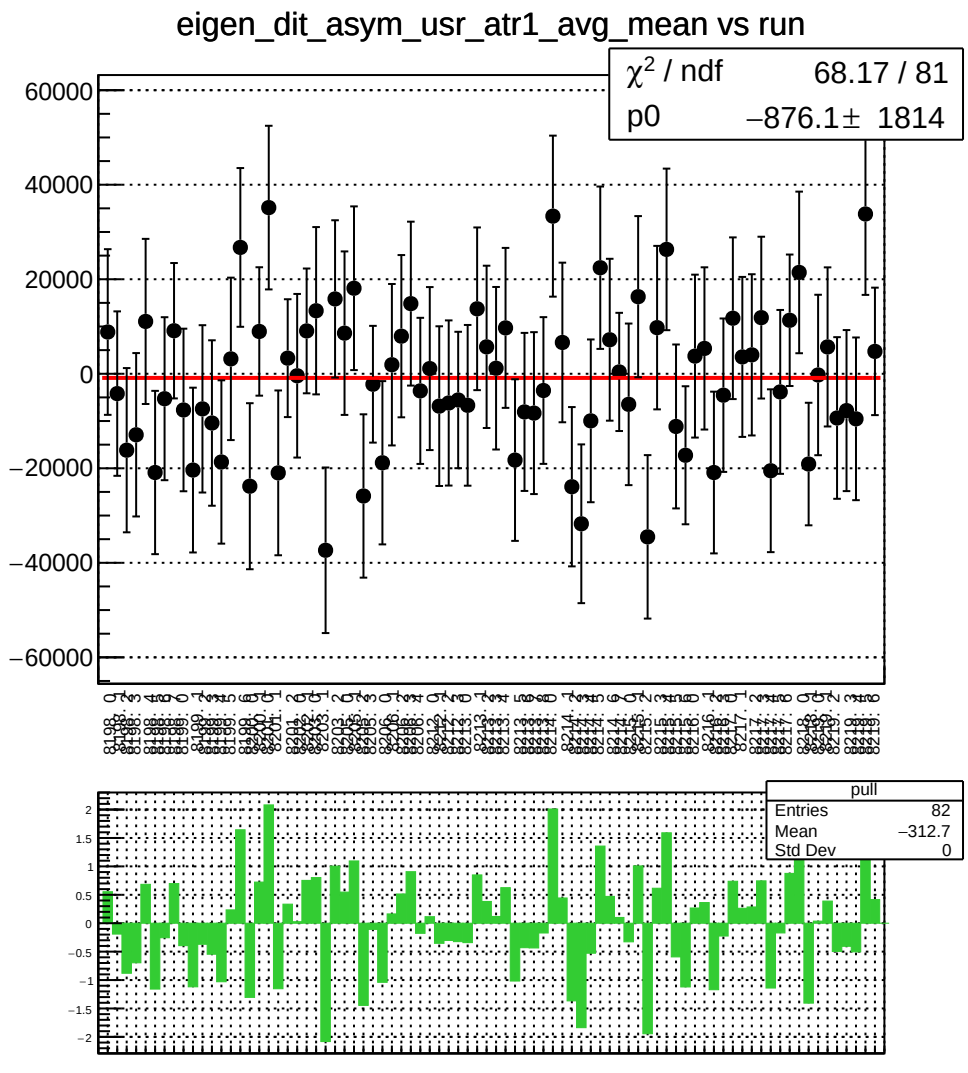

pull1D
Entries 82
Mean −0.004741
Std Dev 0.9117

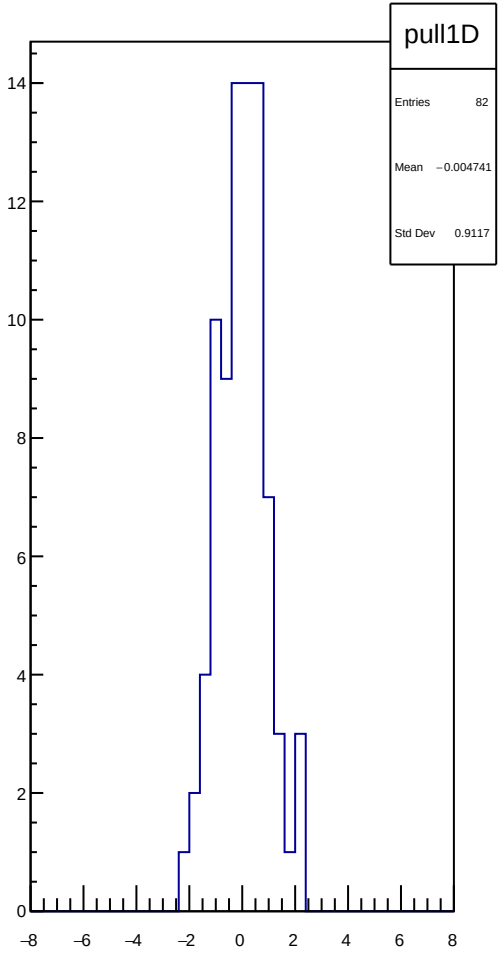

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 196 / 81
p0 1633 ± 1.283
1700
1680
1660
1640
1620
1600
1580

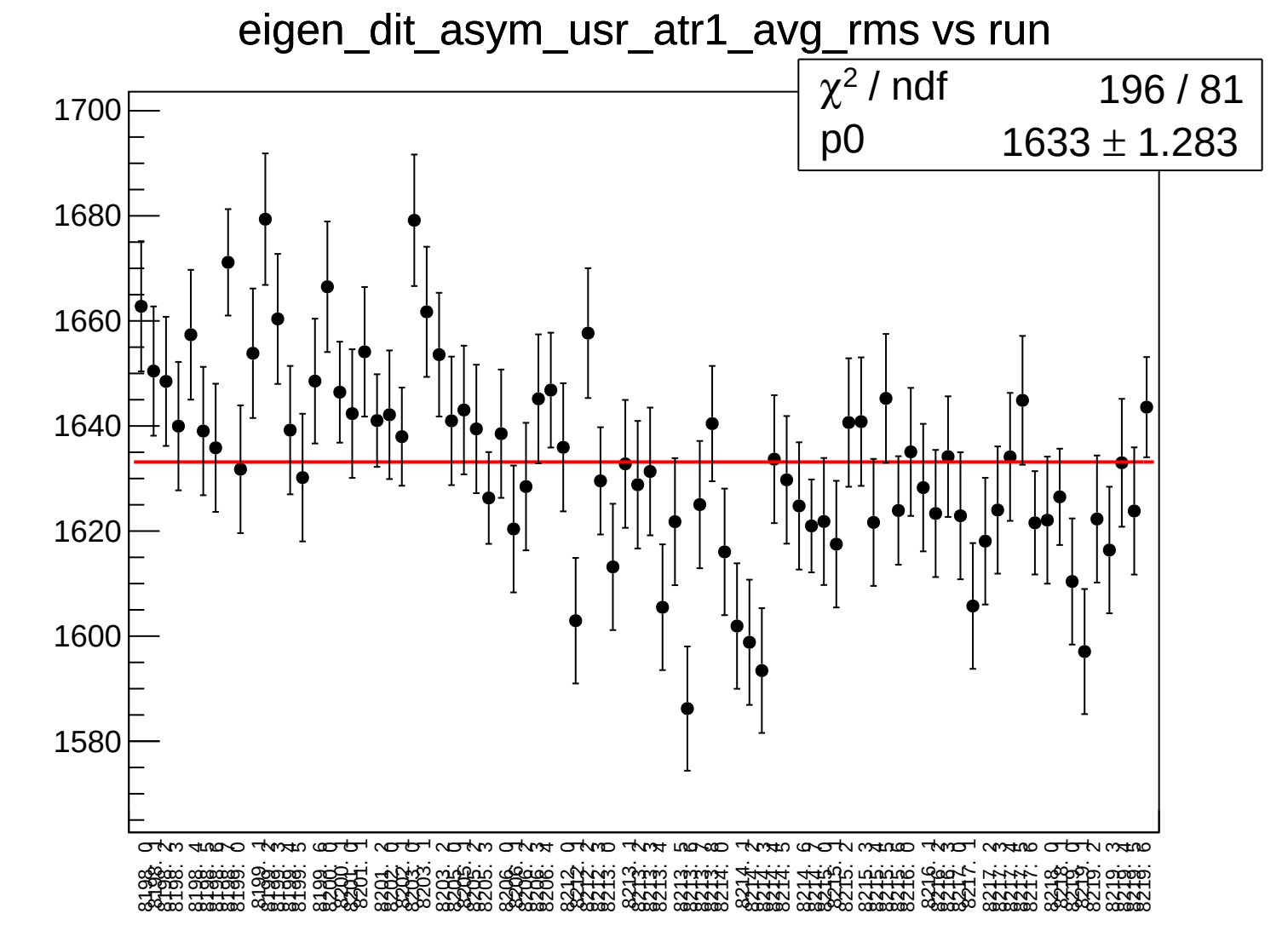

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 96.65 / 81
p0 560.6 ± 2147
pull
Entries 82
Mean 22.39
Std Dev 0

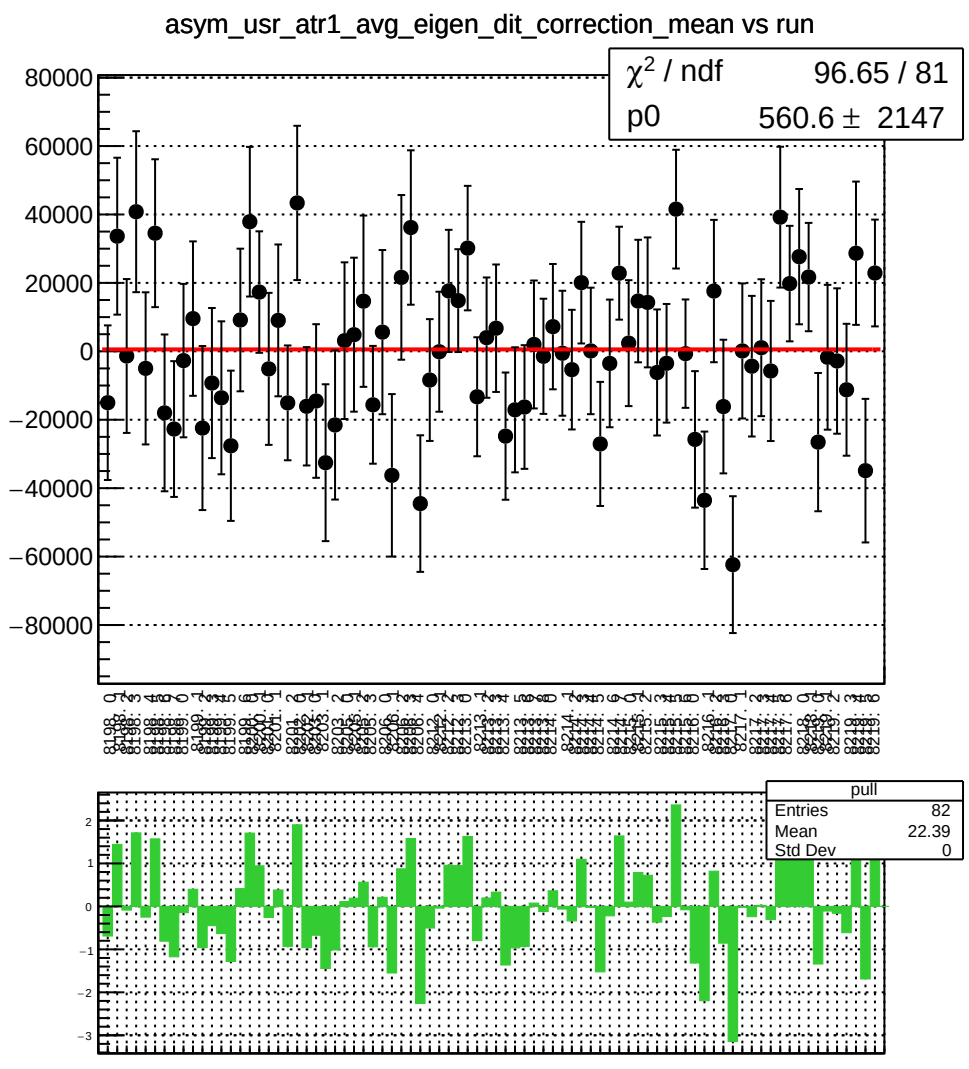

pull1D
Entries 82
Mean −0.01842
Std Dev 1.085

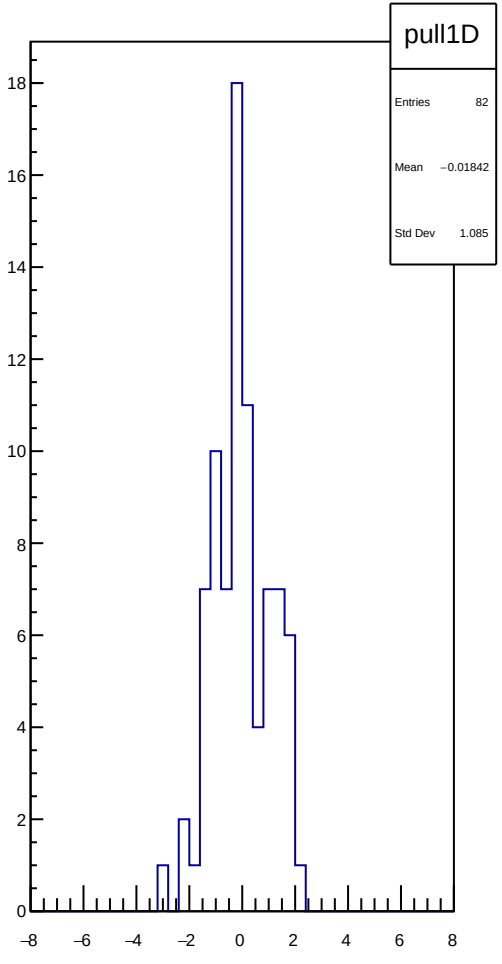

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1.747e+04 / 81
p0 1923 ± 1.518
2400
2300
2200
2100
2000
1900
1800
1700
1600

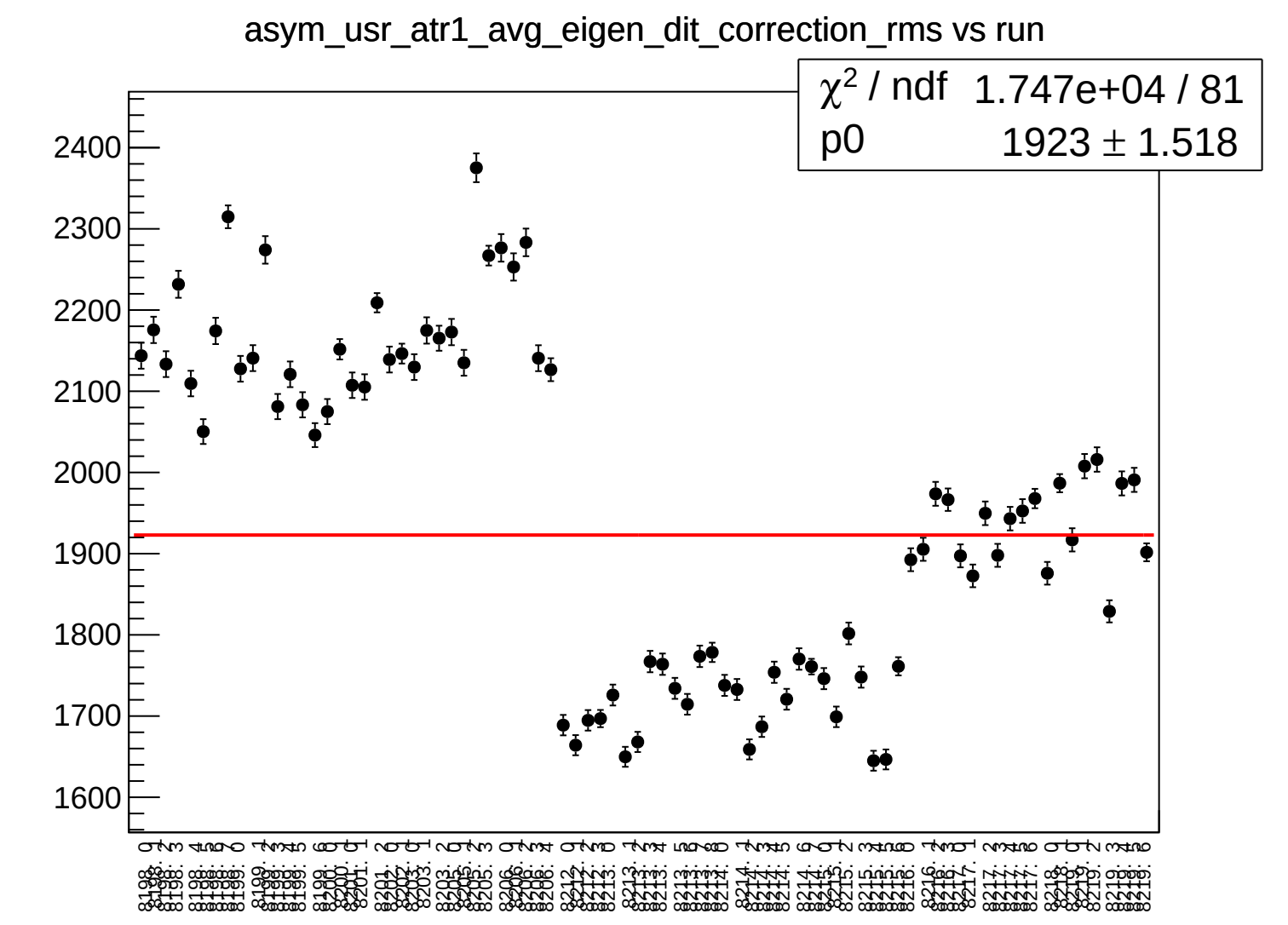

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 68.17 / 81
p0 −876.1± 1814
pull
Entries 82
Mean −312.7
Std Dev 0

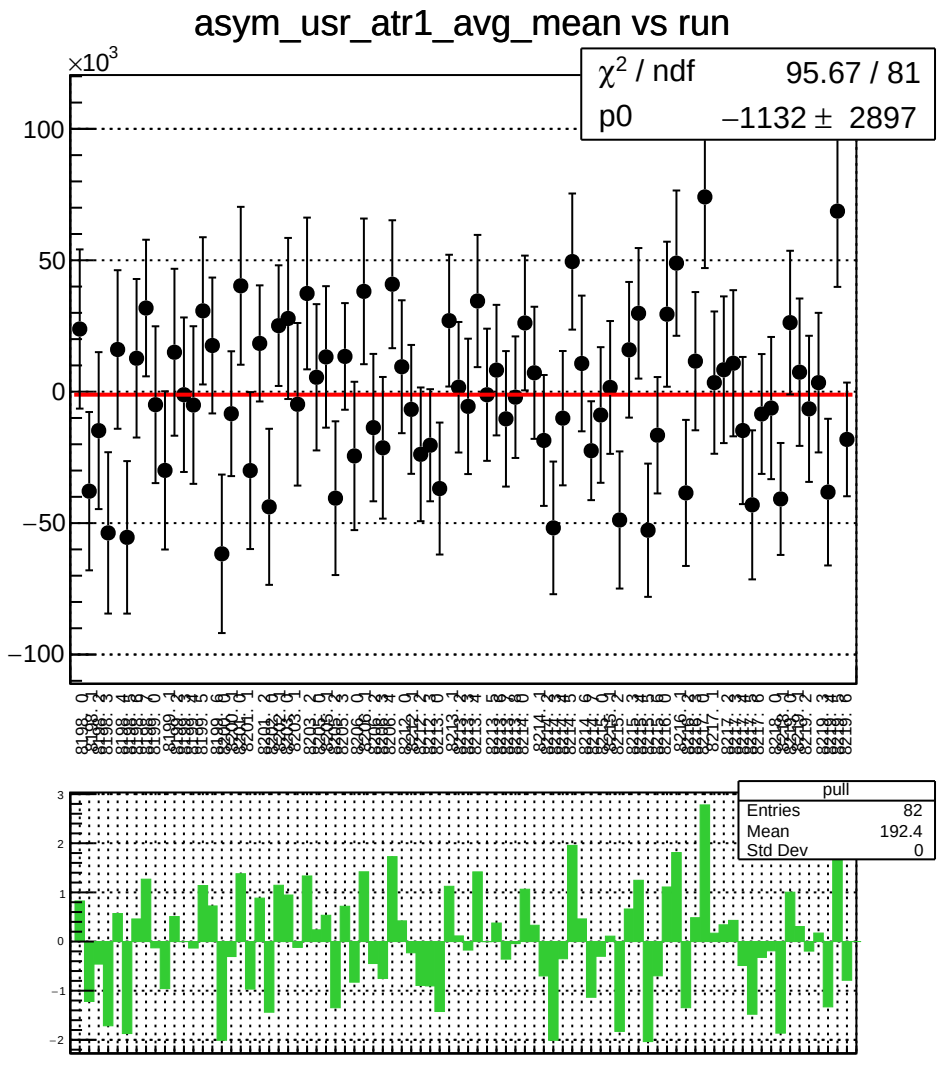

pull1D
Entries 82
Mean −0.004741
Std Dev 0.9117

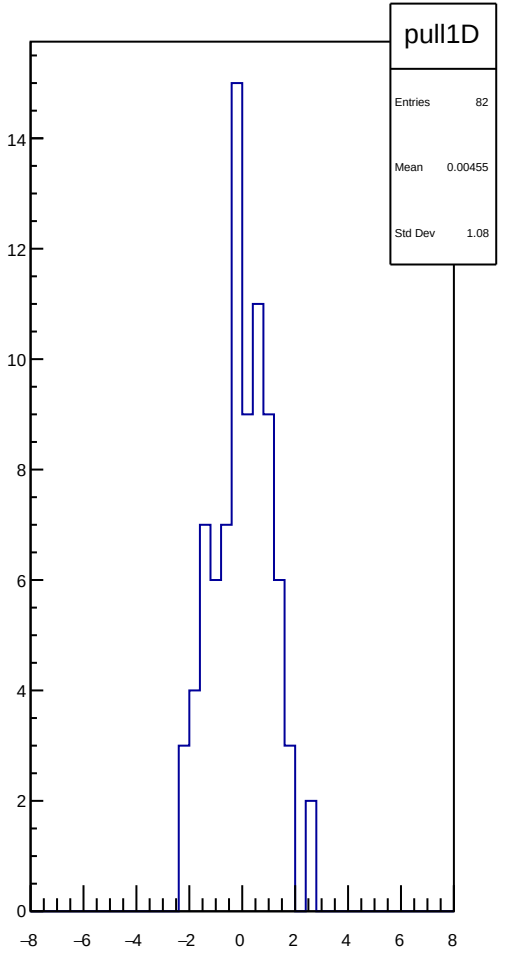

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 196 / 81
p0 1633 ± 1.283
1700
1680
1660
1640
1620
1600
1580

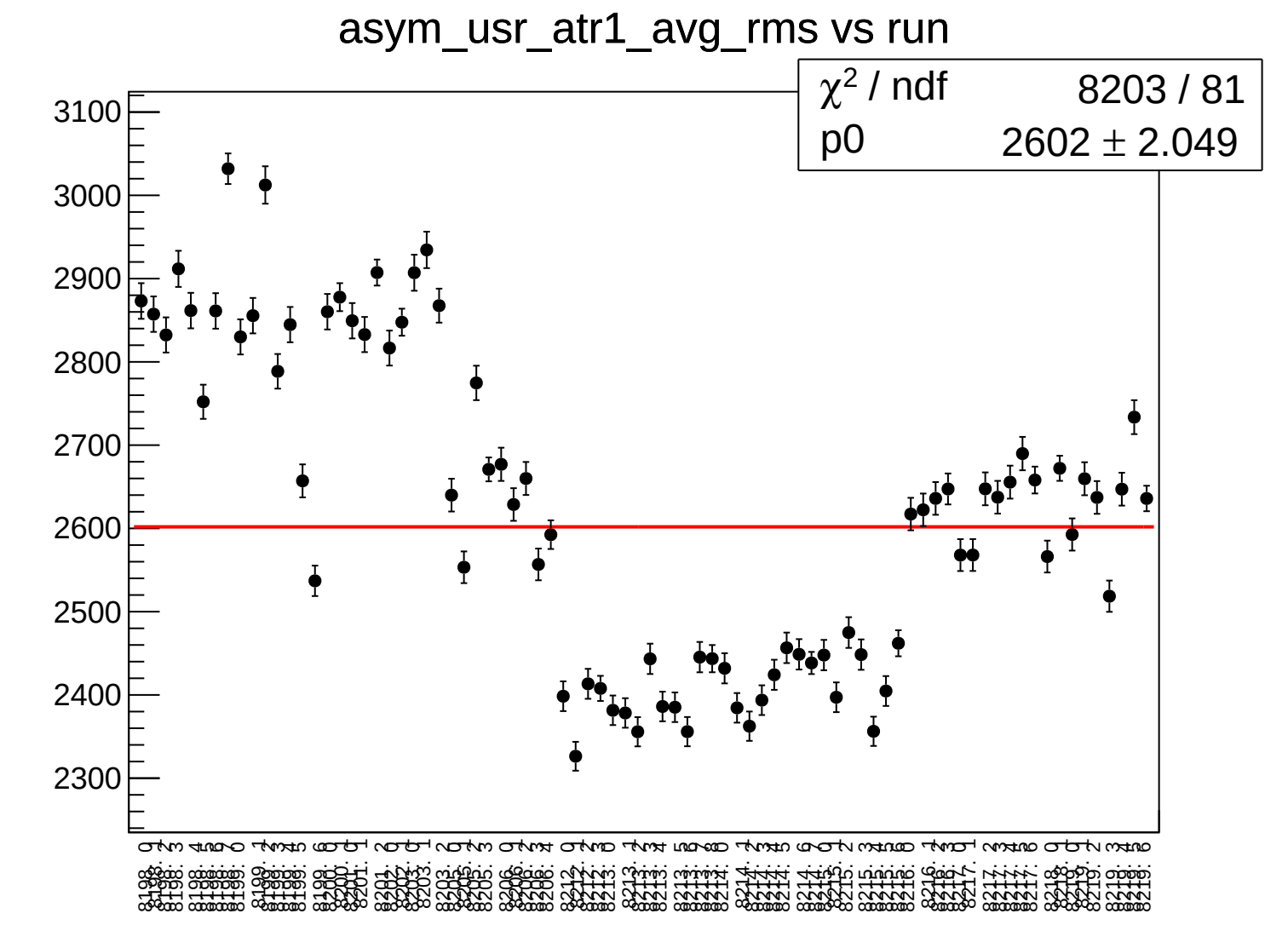

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.65 / 81
p0 560.6 ± 2147
pull
Entries 82
Mean 22.39
Std Dev 0

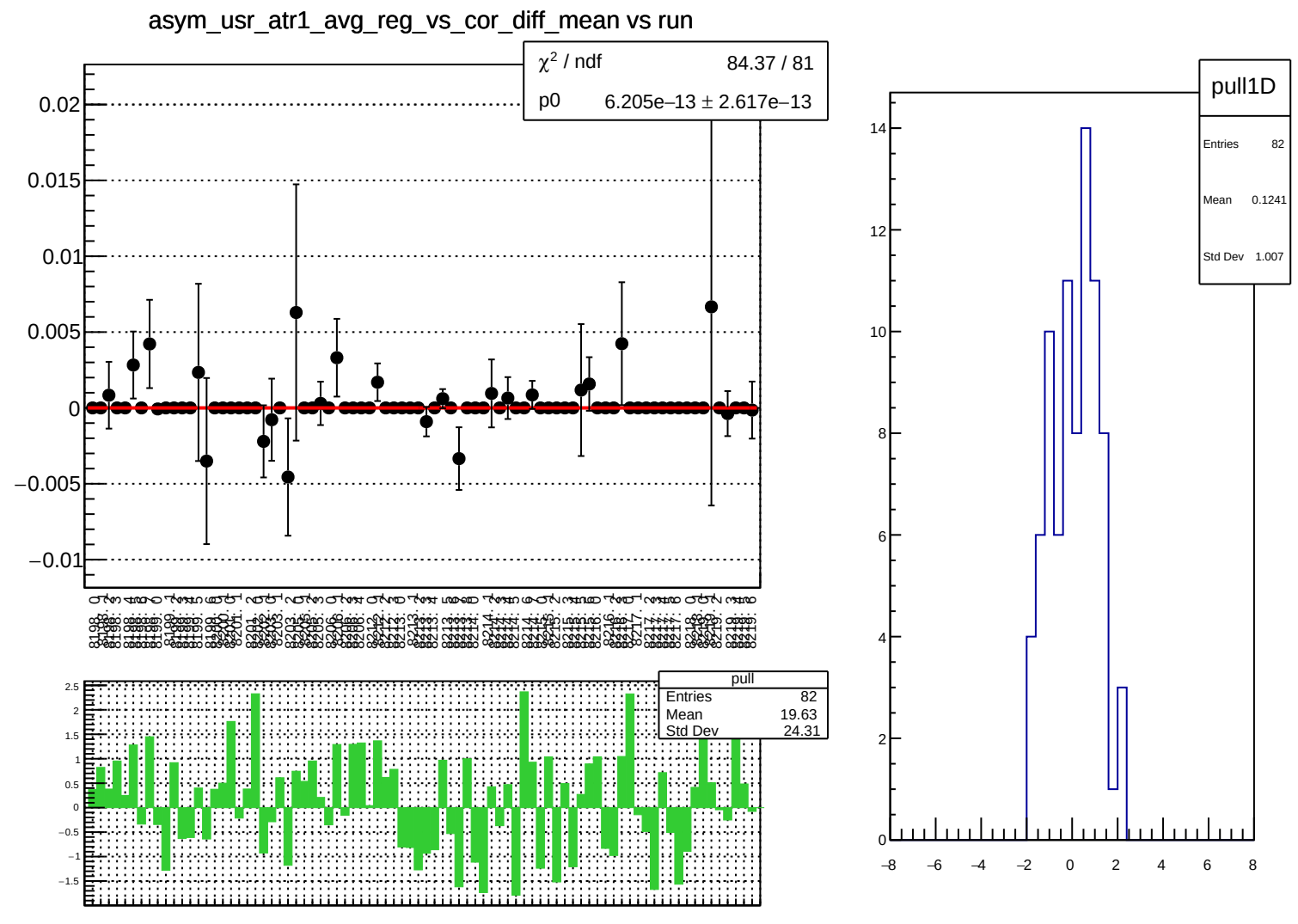

pull1D
Entries 82
Mean −0.01842
Std Dev 1.085

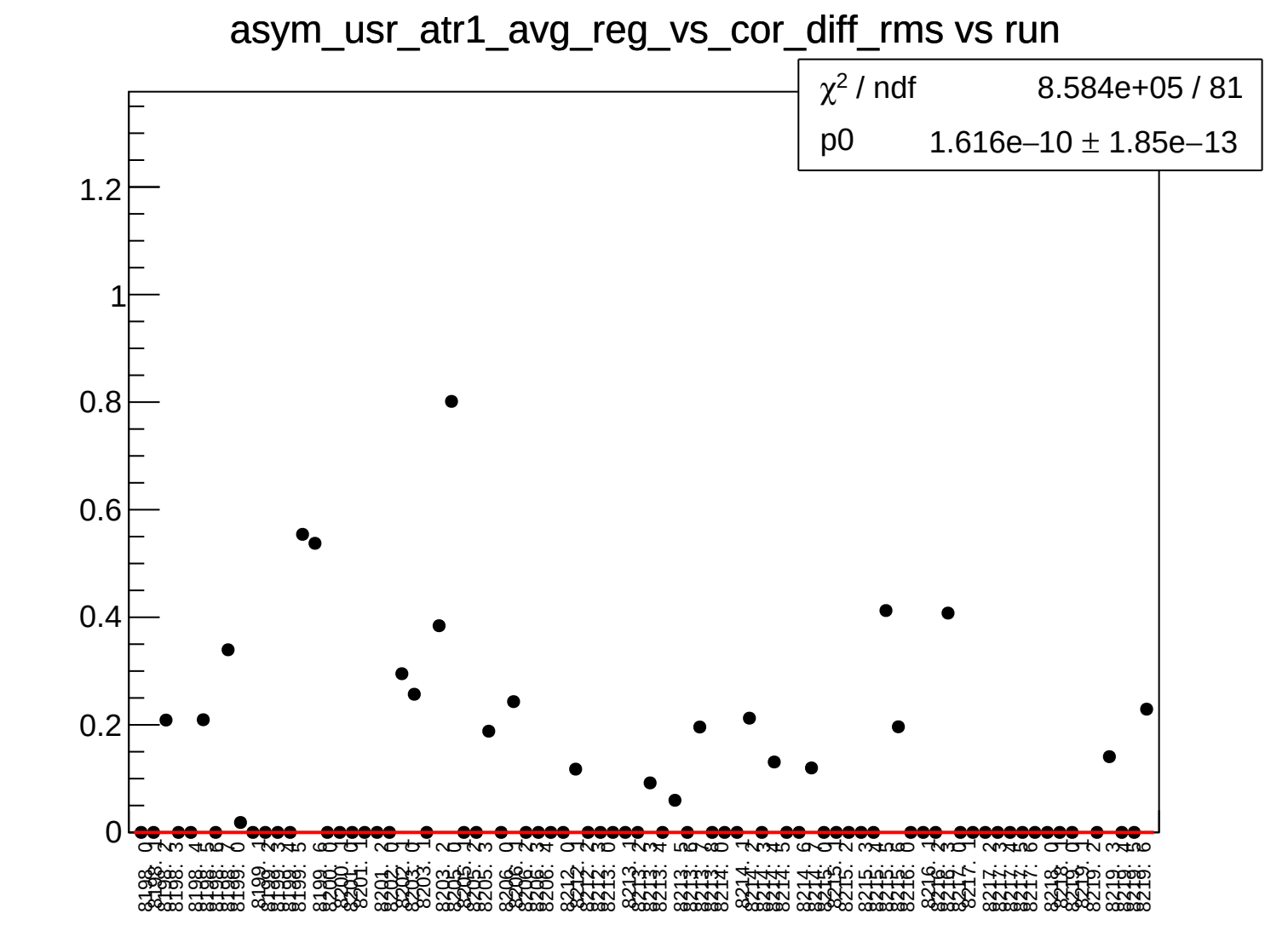

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.747e+04 / 81
p0 1923 ± 1.518
2400
2300
2200
2100
2000
1900
1800
1700
1600

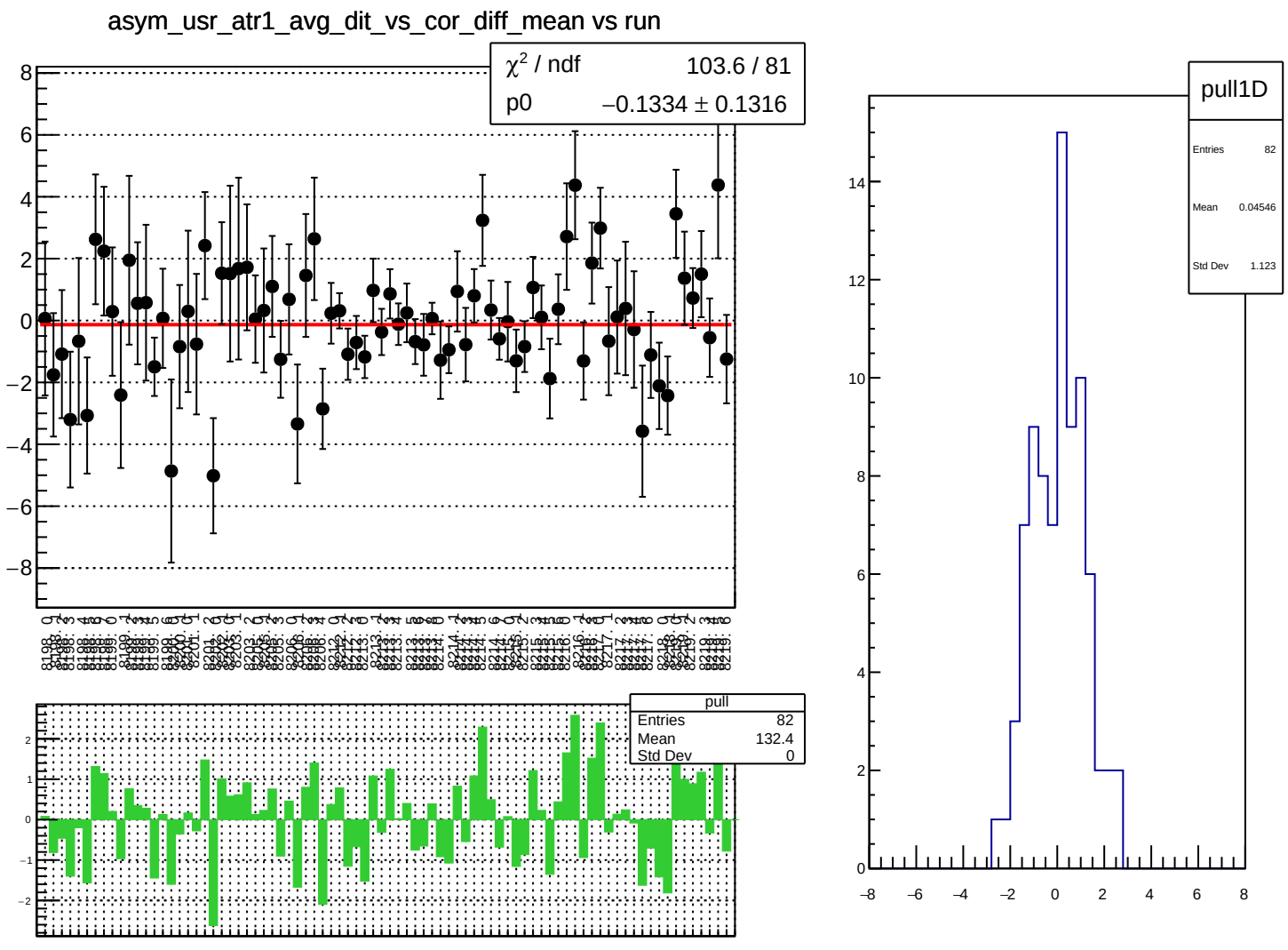

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 95.67 / 81
p0 −1132 ± 2897
100
50
0
−50
−100
pull
Entries 82
Mean 192.4
Std Dev 0
3
2
1
0
−1
−2

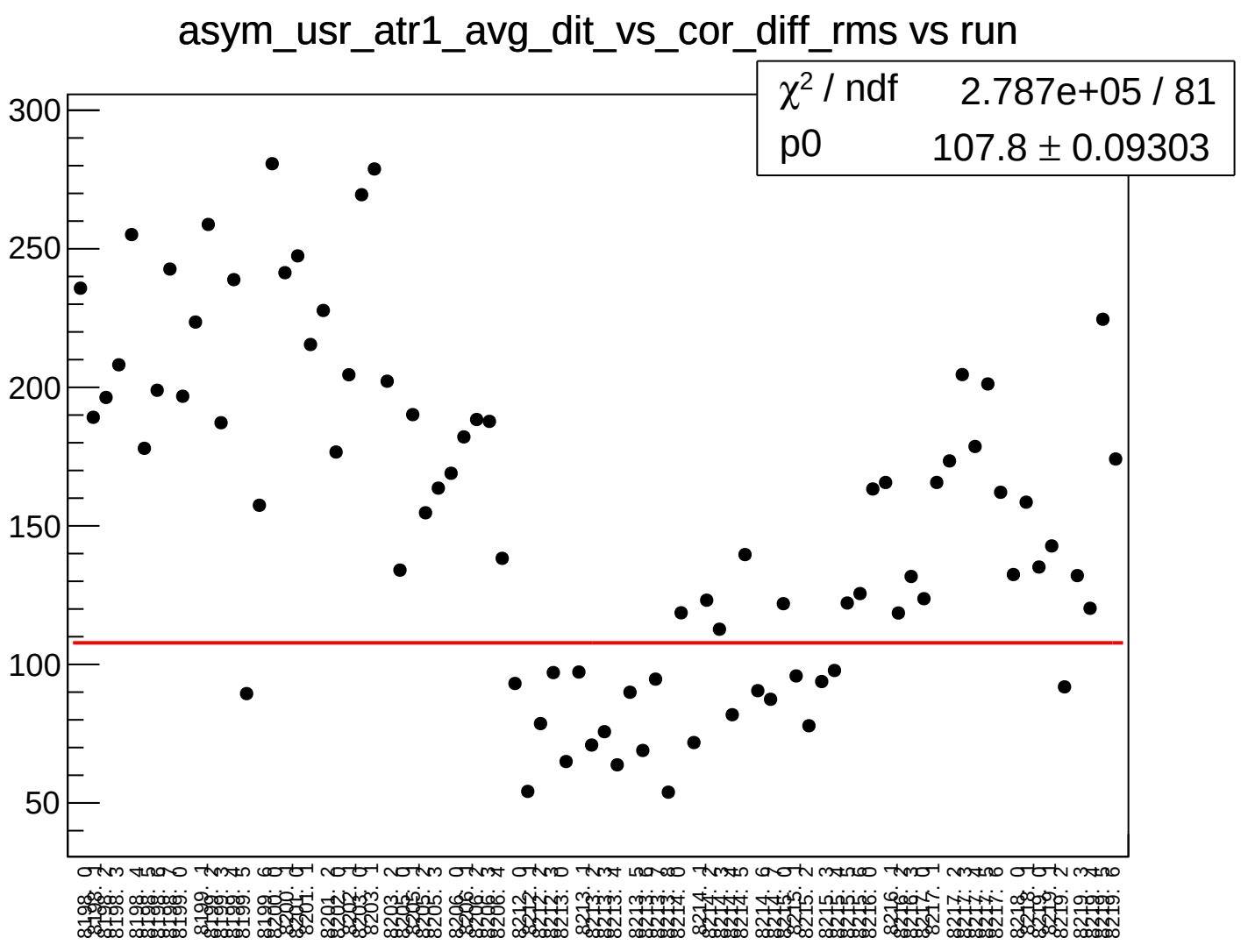

pull1D
Entries 82
Mean 0.00455
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

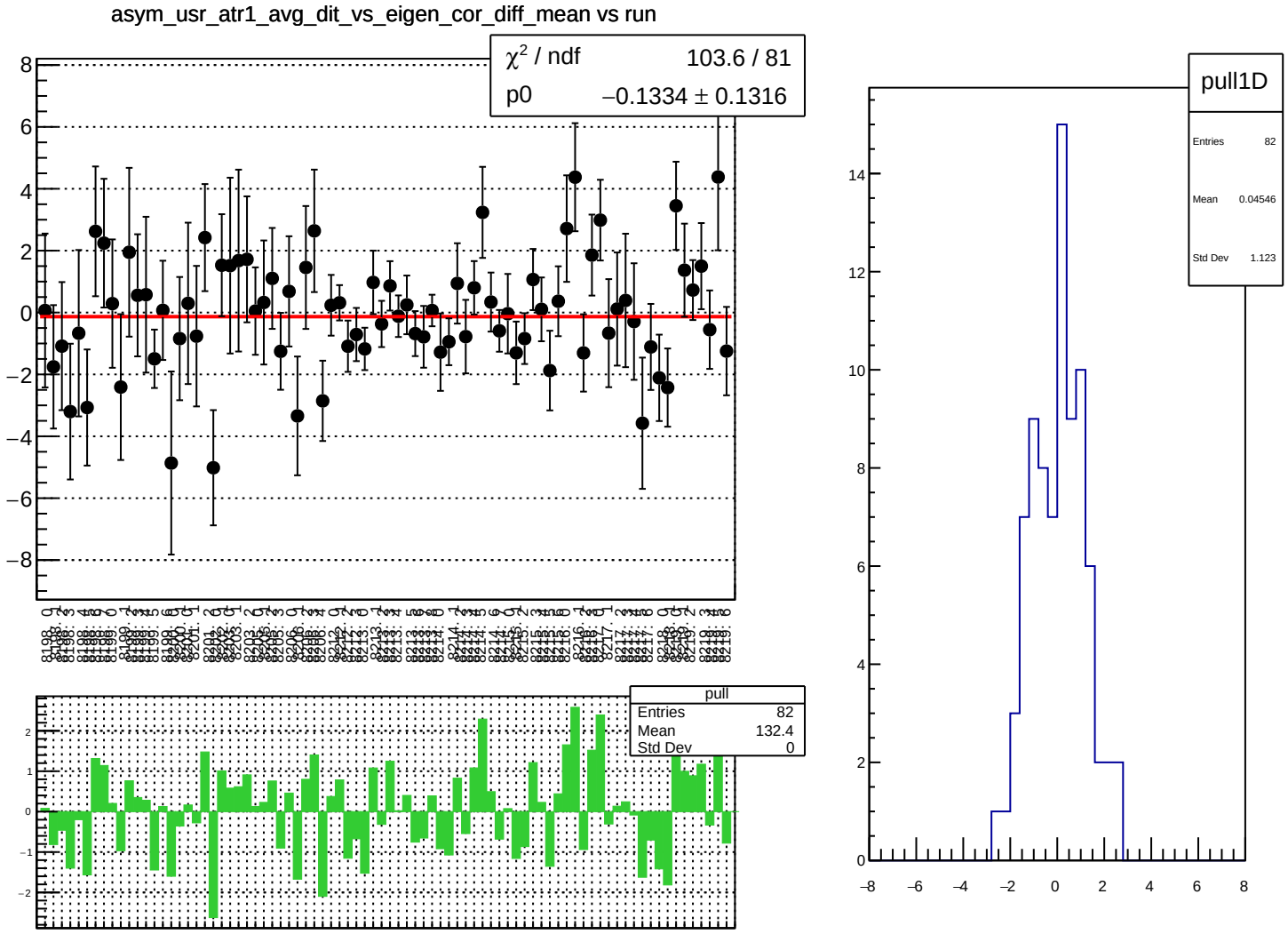

asym_usr_atr1_avg_rms vs run
χ² / ndf 8203 / 81
p0 2602 ± 2.049
3100
3000
2900
2800
2700
2600
2500
2400
2300

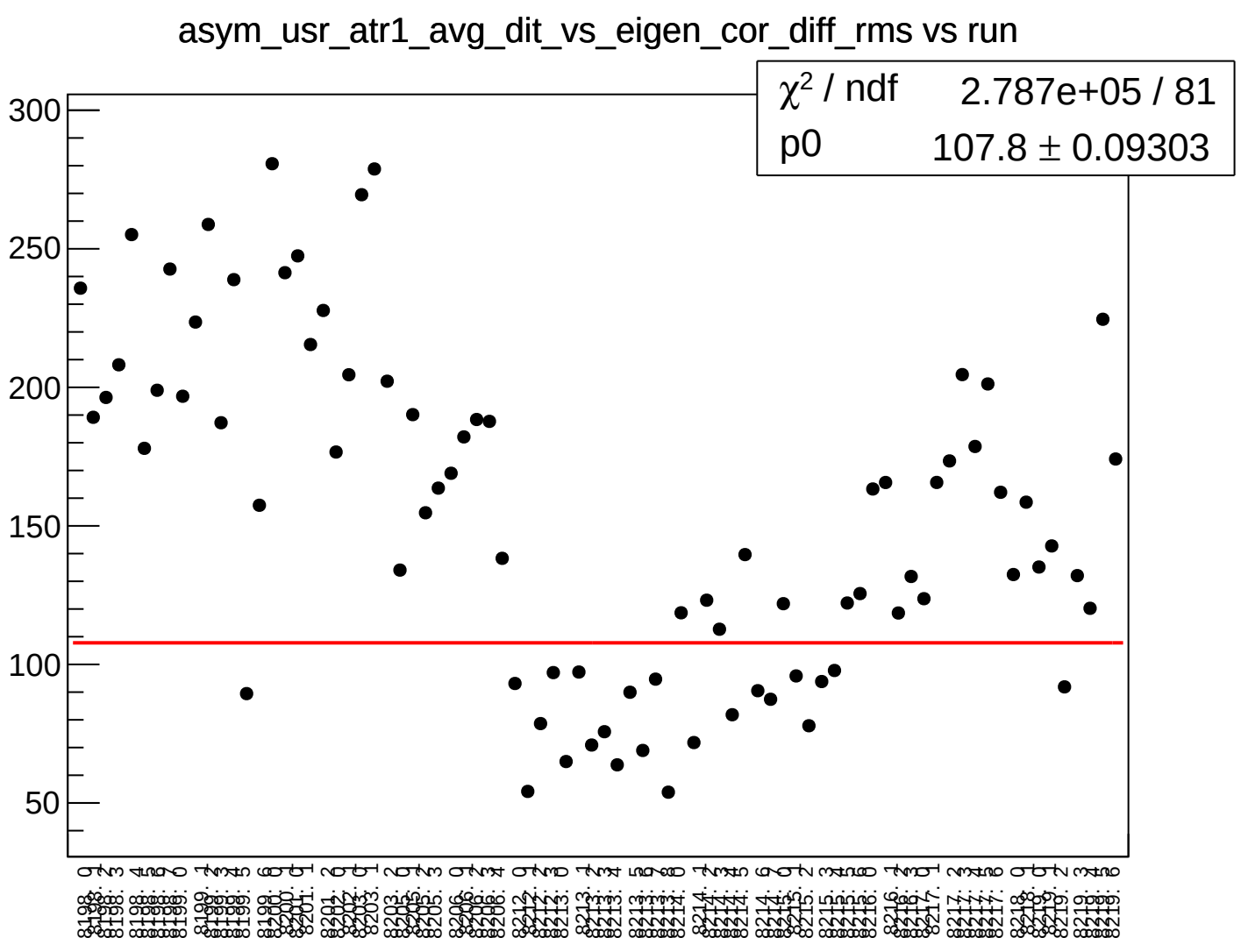

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.37 / 81
p0 6.205e−13 ± 2.617e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 82
Mean 19.63
Std Dev 24.31
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean 0.1241
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

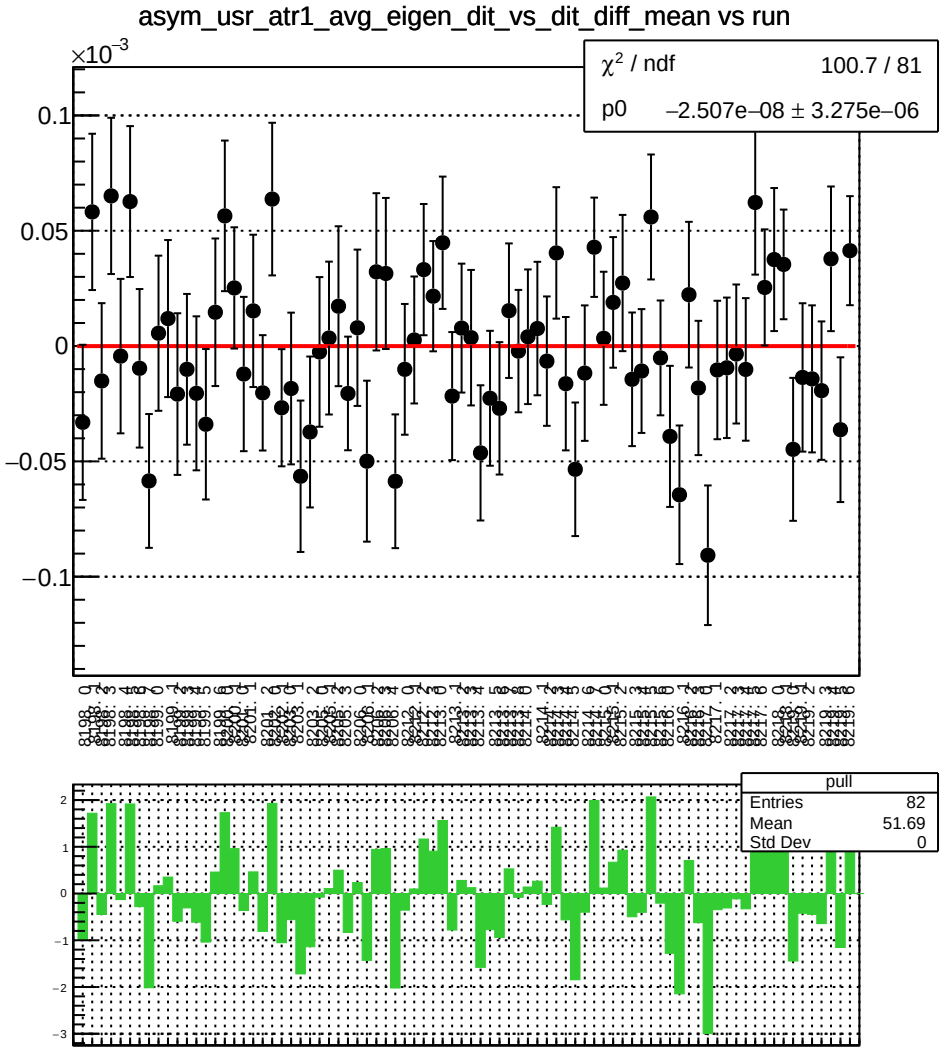

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.584e+05 / 81
p0 1.616e−10 ± 1.85e−13
1.2
1
0.8
0.6
0.4
0.2
0

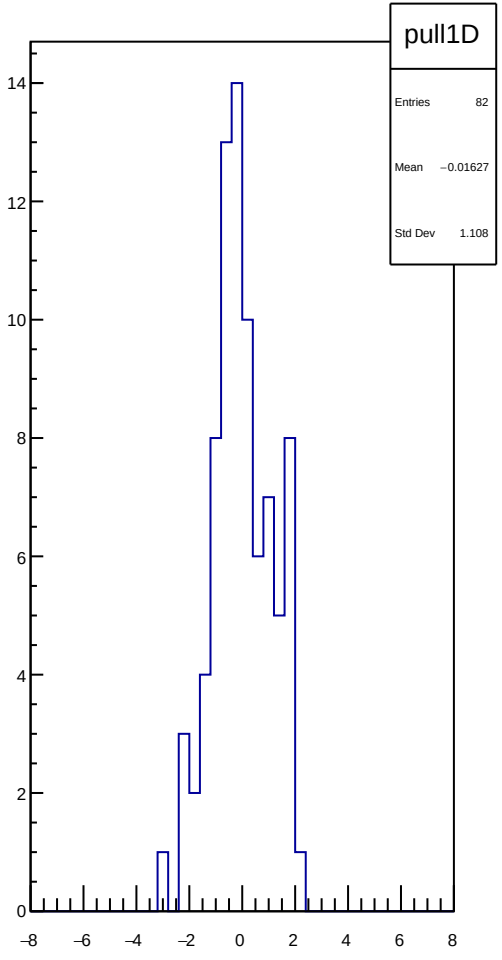

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 81
p0 −0.1334 ± 0.1316
pull
Entries 82
Mean 132.4
Std Dev 0
pull1D
Entries 82
Mean 0.04546
Std Dev 1.123

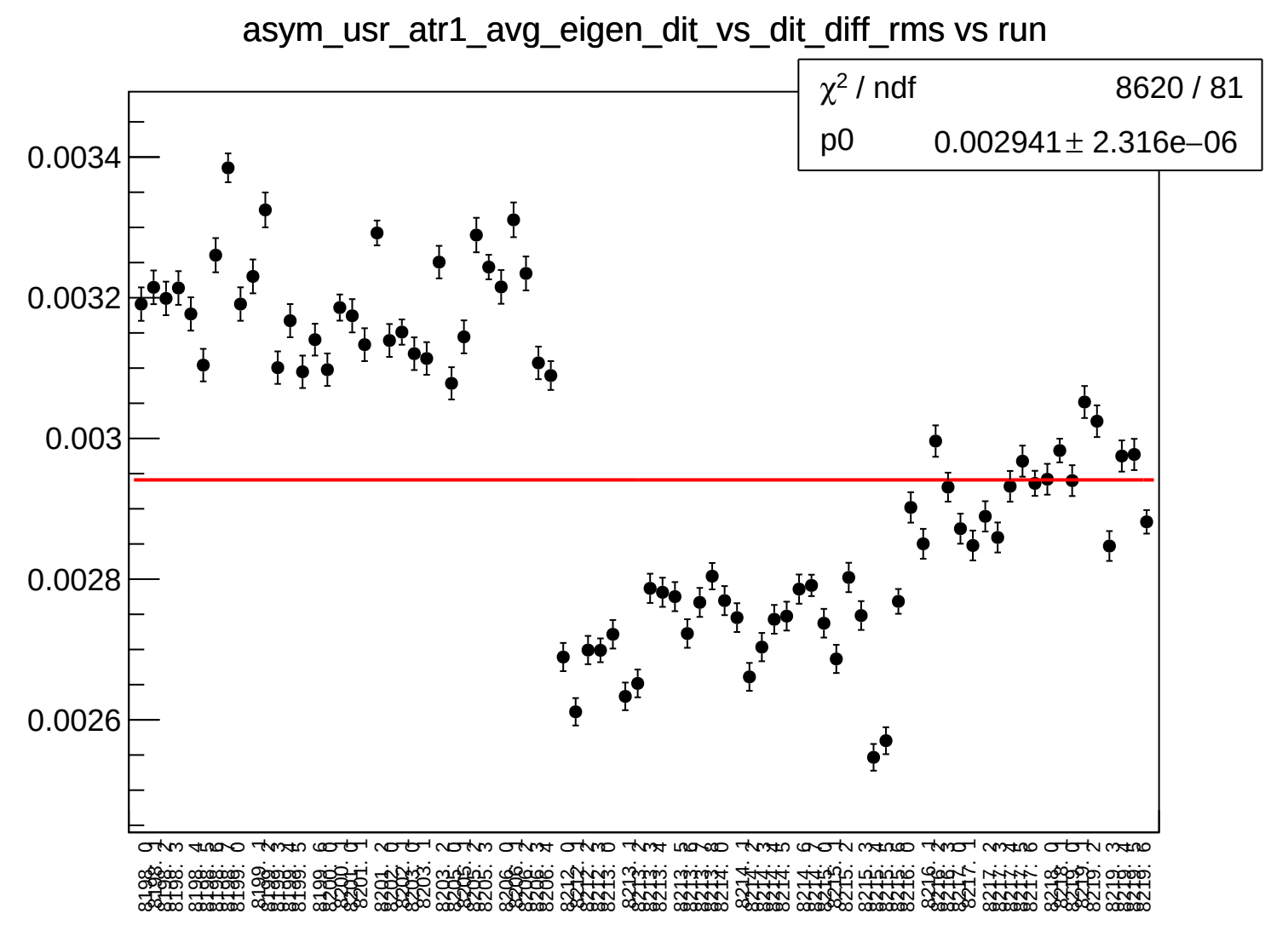

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.787e+05 / 81
p0 107.8 ± 0.09303
300
250
200
150
100
50

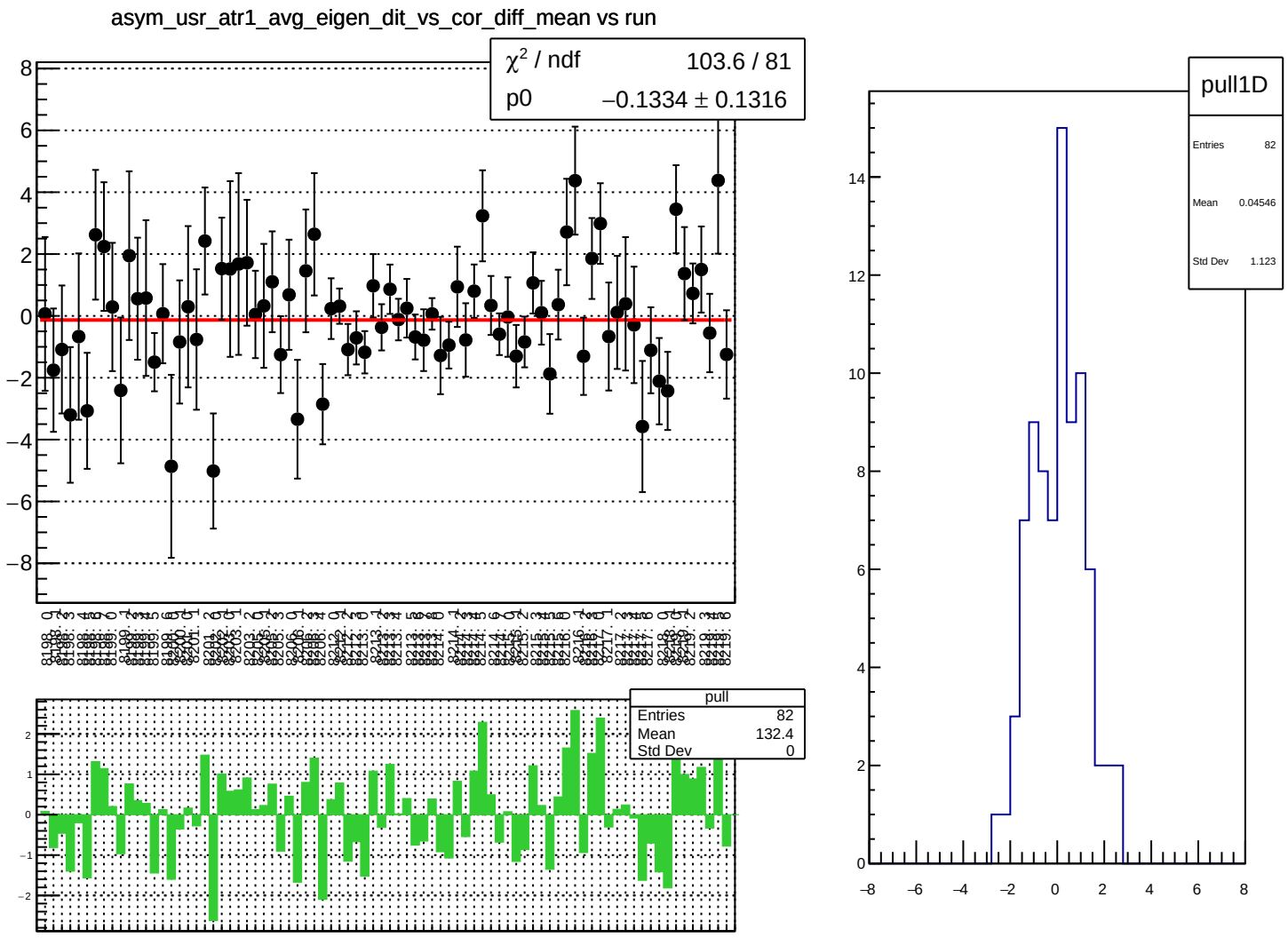

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 81
p0 −0.1334 ± 0.1316
pull
Entries 82
Mean 132.4
Std Dev 0
pull1D
Entries 82
Mean 0.04546
Std Dev 1.123

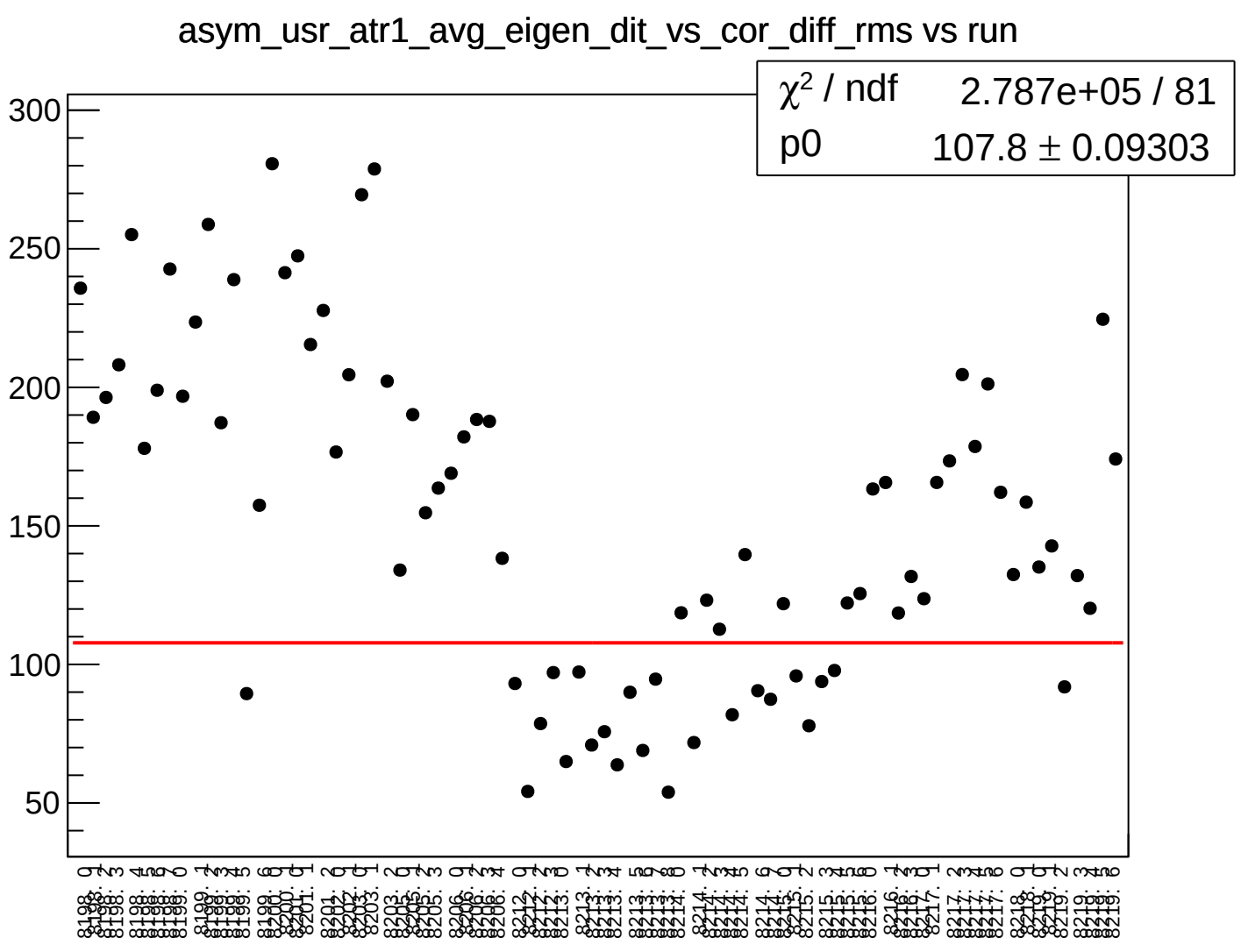

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.787e+05 / 81
p0 107.8 ± 0.09303
300
250
200
150
100
50

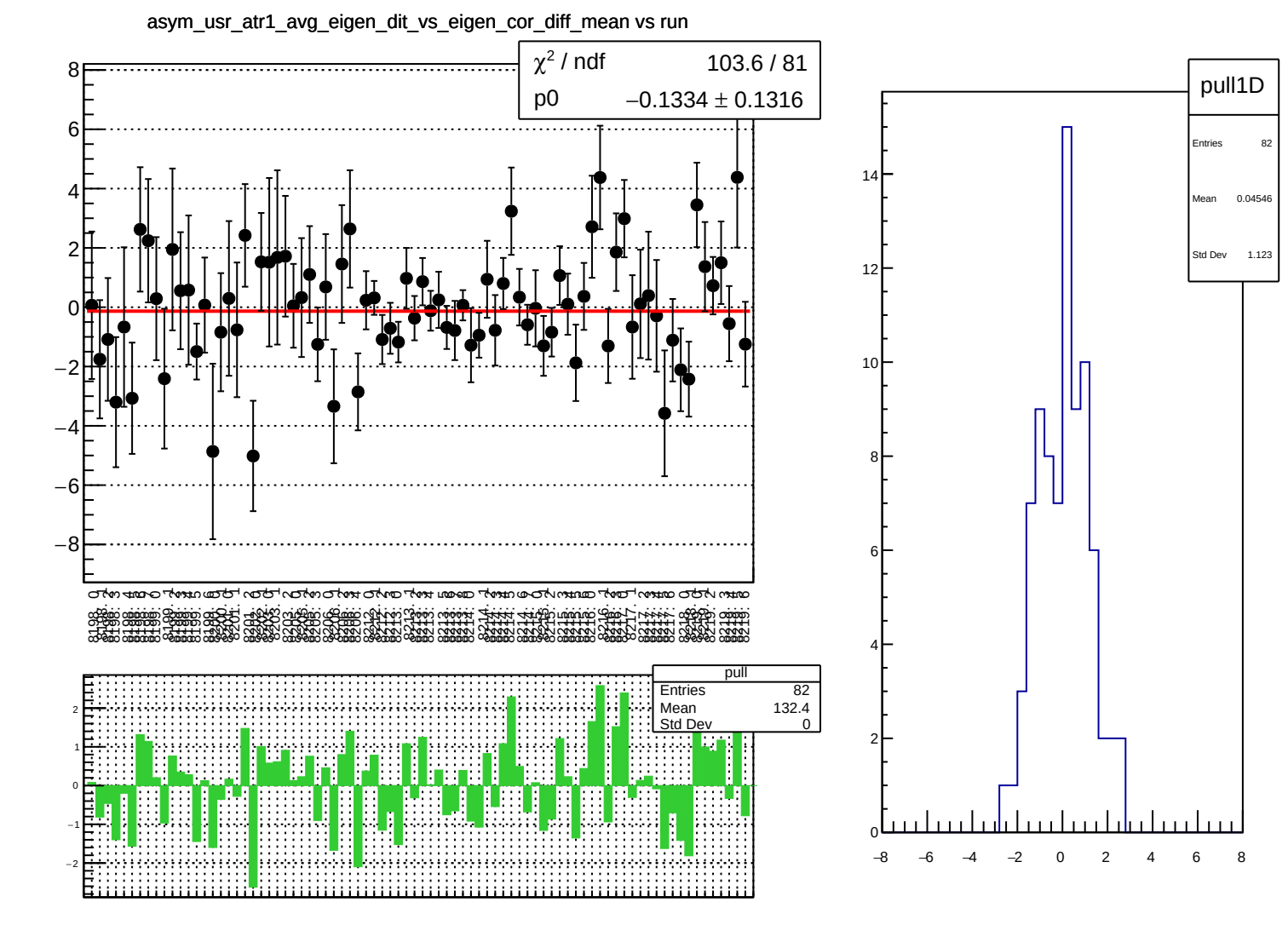

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.7 / 81
p0 −2.507e−08 ± 3.275e−06
pull
Entries 82
Mean 51.69
Std Dev 0

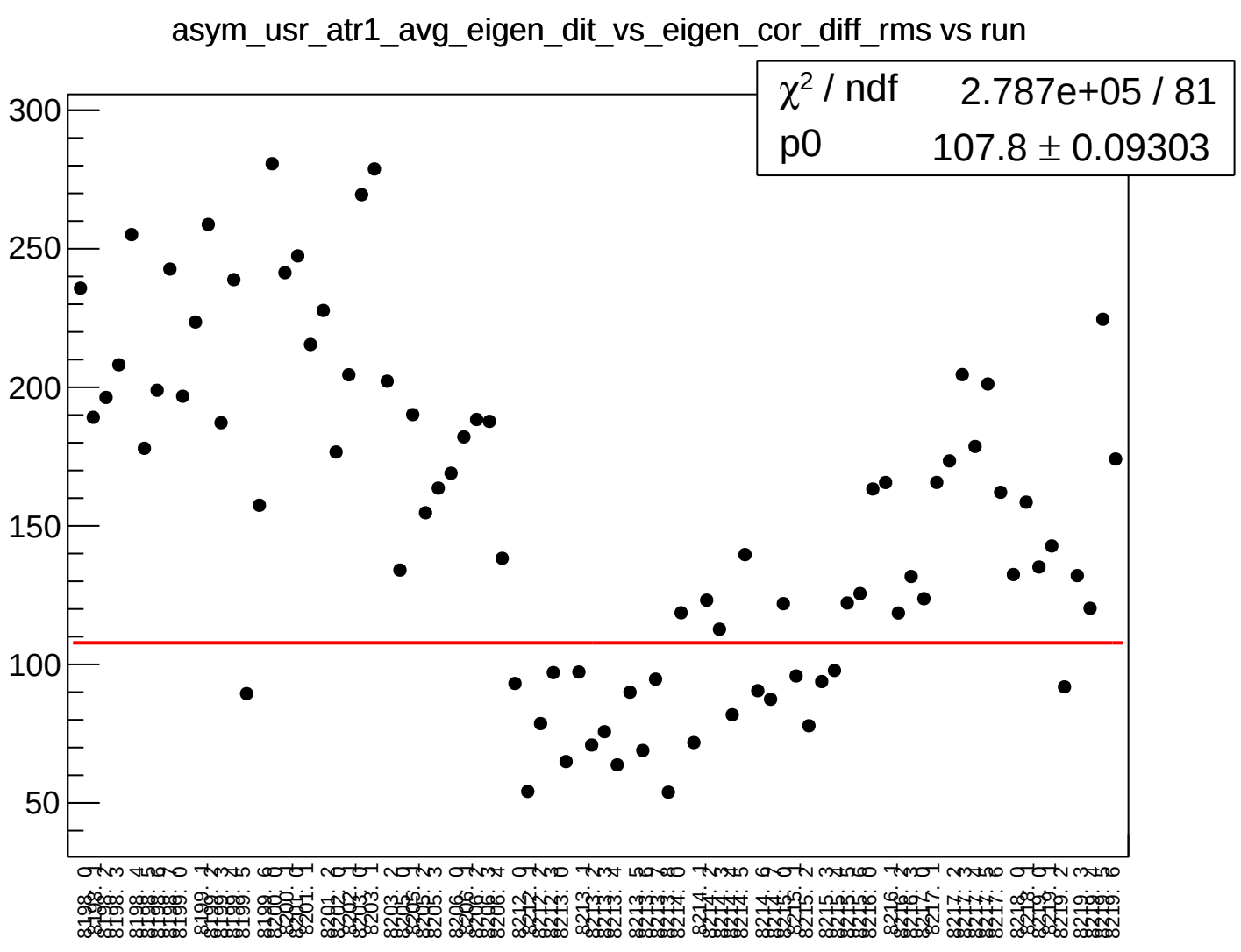

pull1D
Entries 82
Mean −0.01627
Std Dev 1.108

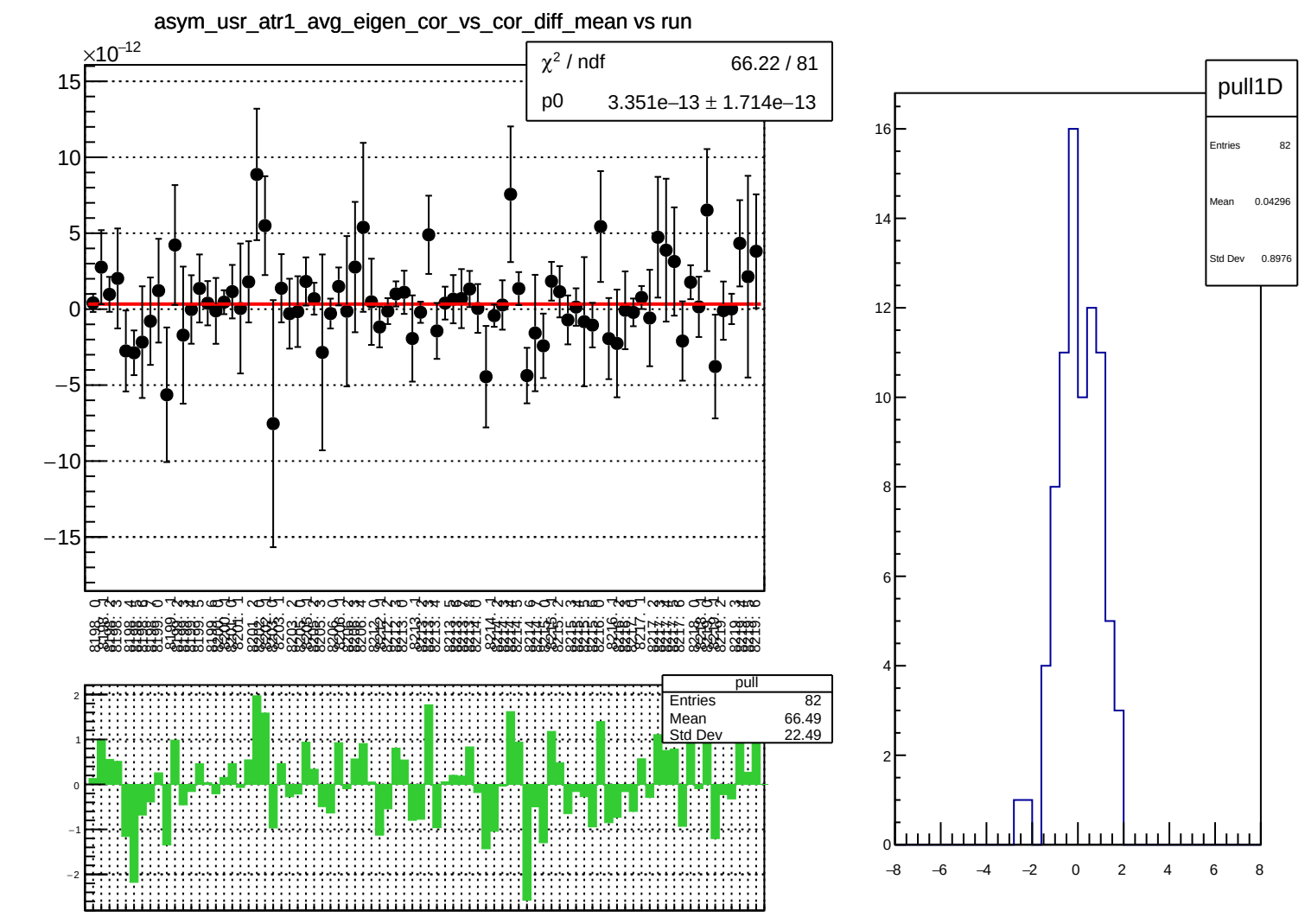

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8620 / 81
p0 0.002941 ± 2.316e−06
0.0034
0.0032
0.003
0.0028
0.0026

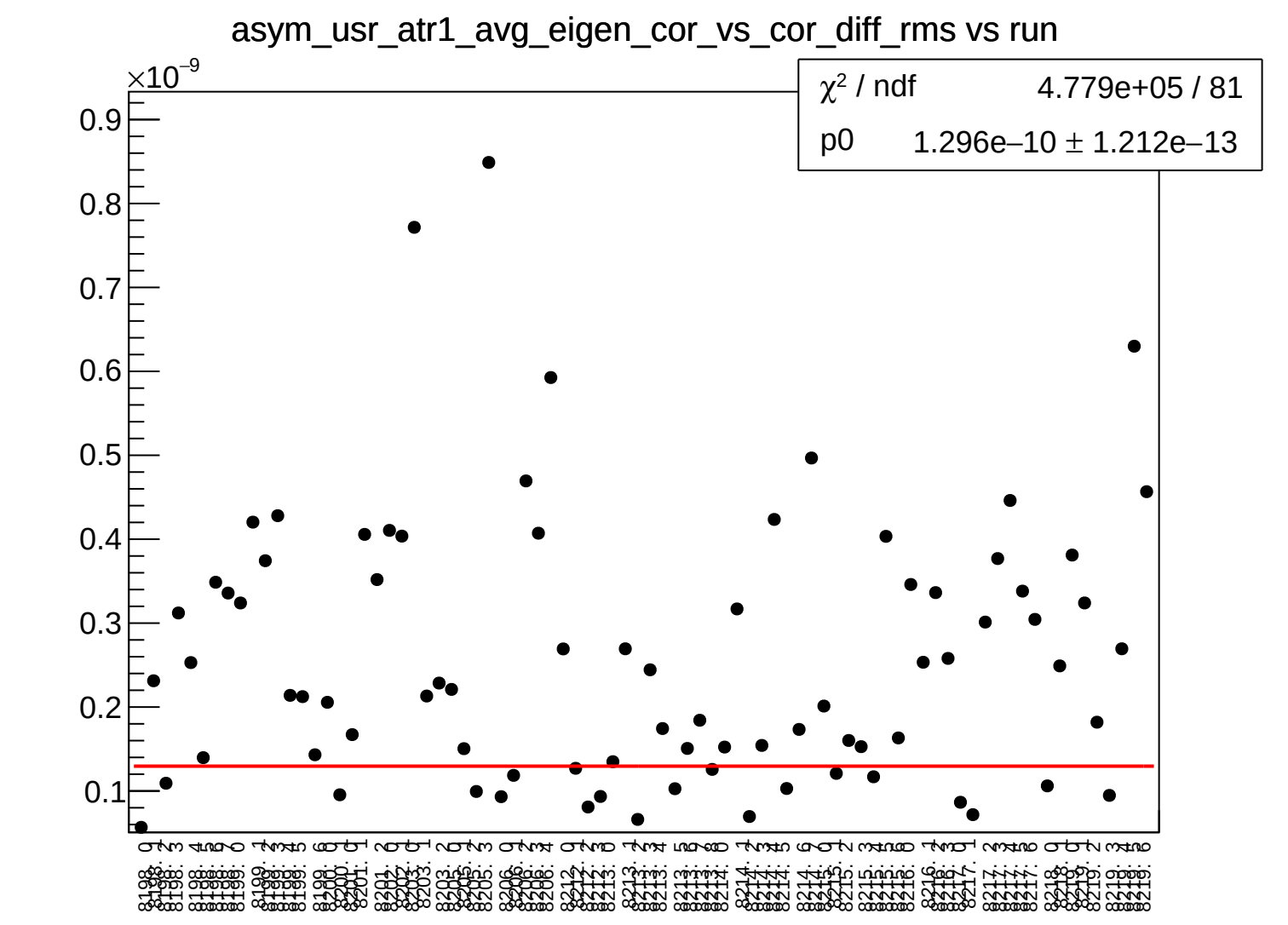

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 81
p0 −0.1334 ± 0.1316
pull
Entries 82
Mean 132.4
Std Dev 0
pull1D
Entries 82
Mean 0.04546
Std Dev 1.123

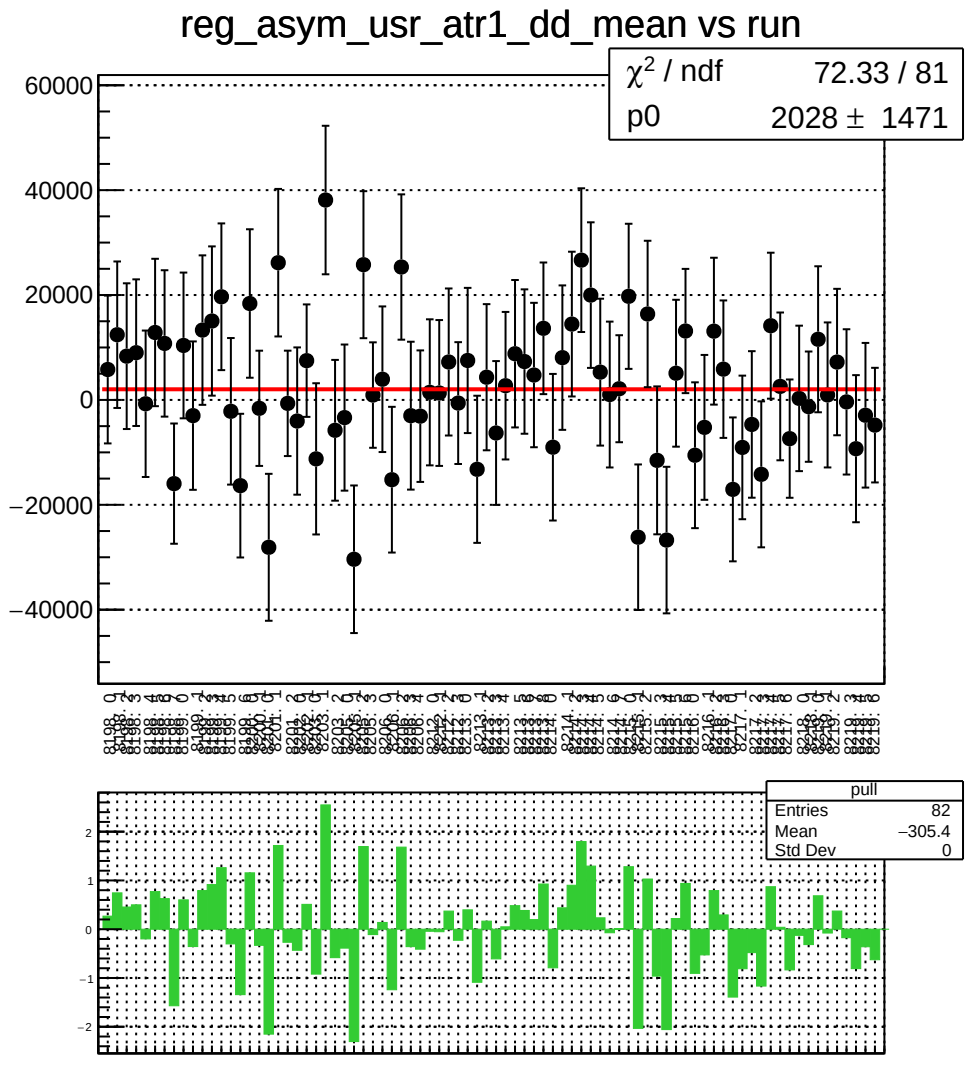

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.787e+05 / 81
p0 107.8 ± 0.09303
300
250
200
150
100
50

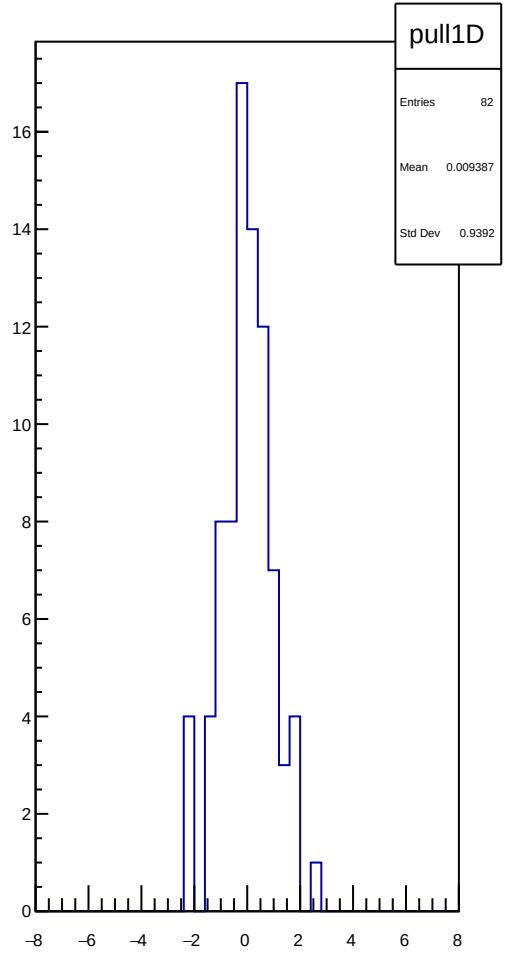

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 81
p0 −0.1334 ± 0.1316
pull
Entries 82
Mean 132.4
Std Dev 0
pull1D
Entries 82
Mean 0.04546
Std Dev 1.123

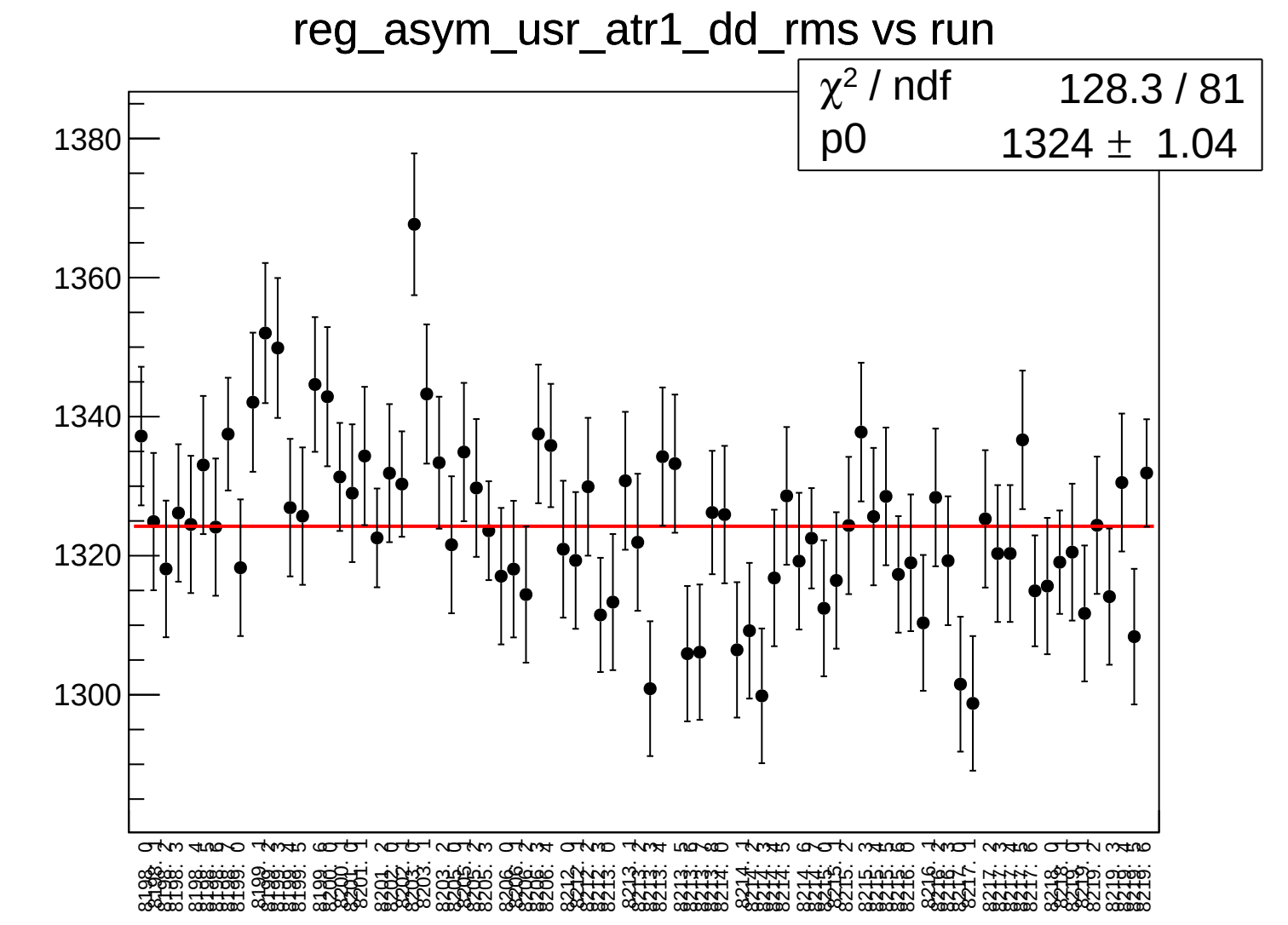

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.787e+05 / 81
p0 107.8 ± 0.09303
300
250
200
150
100
50

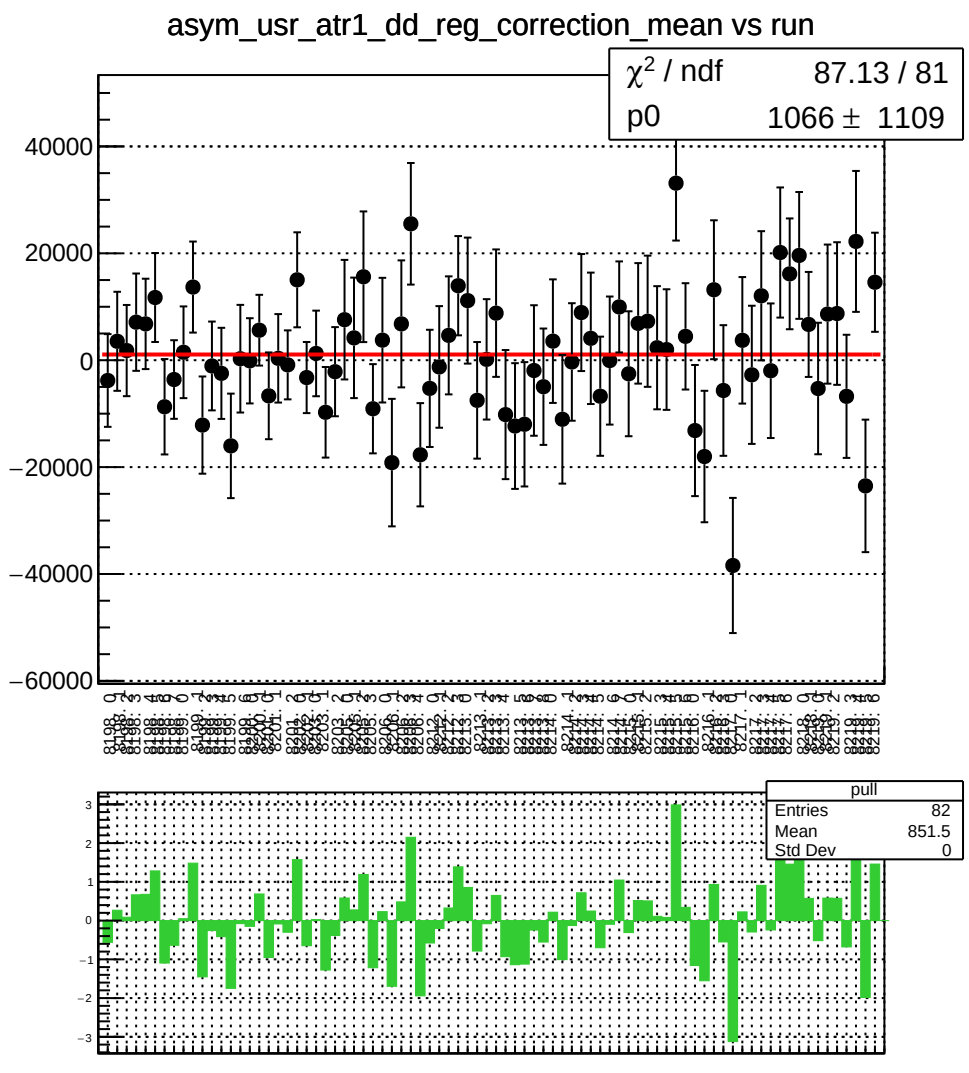

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.22 / 81
p0 3.351e−13 ± 1.714e−13
pull
Entries 82
Mean 66.49
Std Dev 22.49
pull1D
Entries 82
Mean 0.04296
Std Dev 0.8976

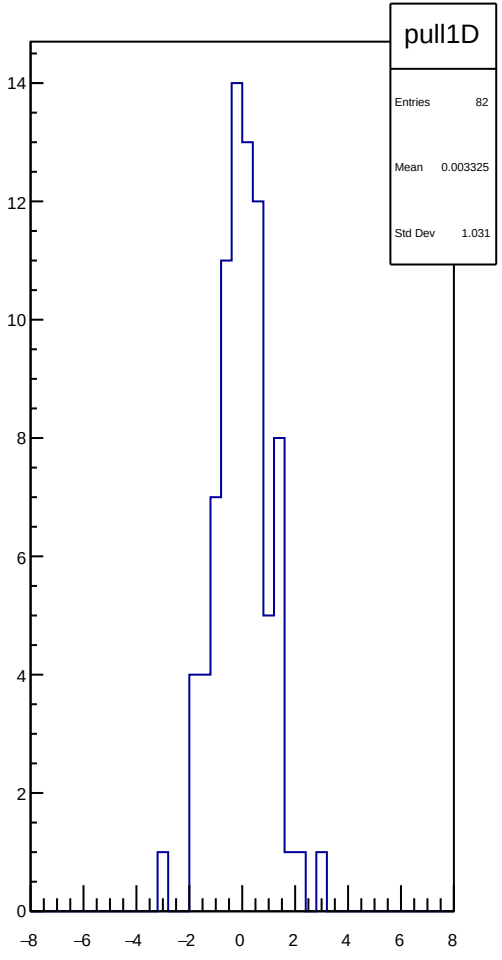

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.779e+05 / 81
p0 1.296e−10 ± 1.212e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

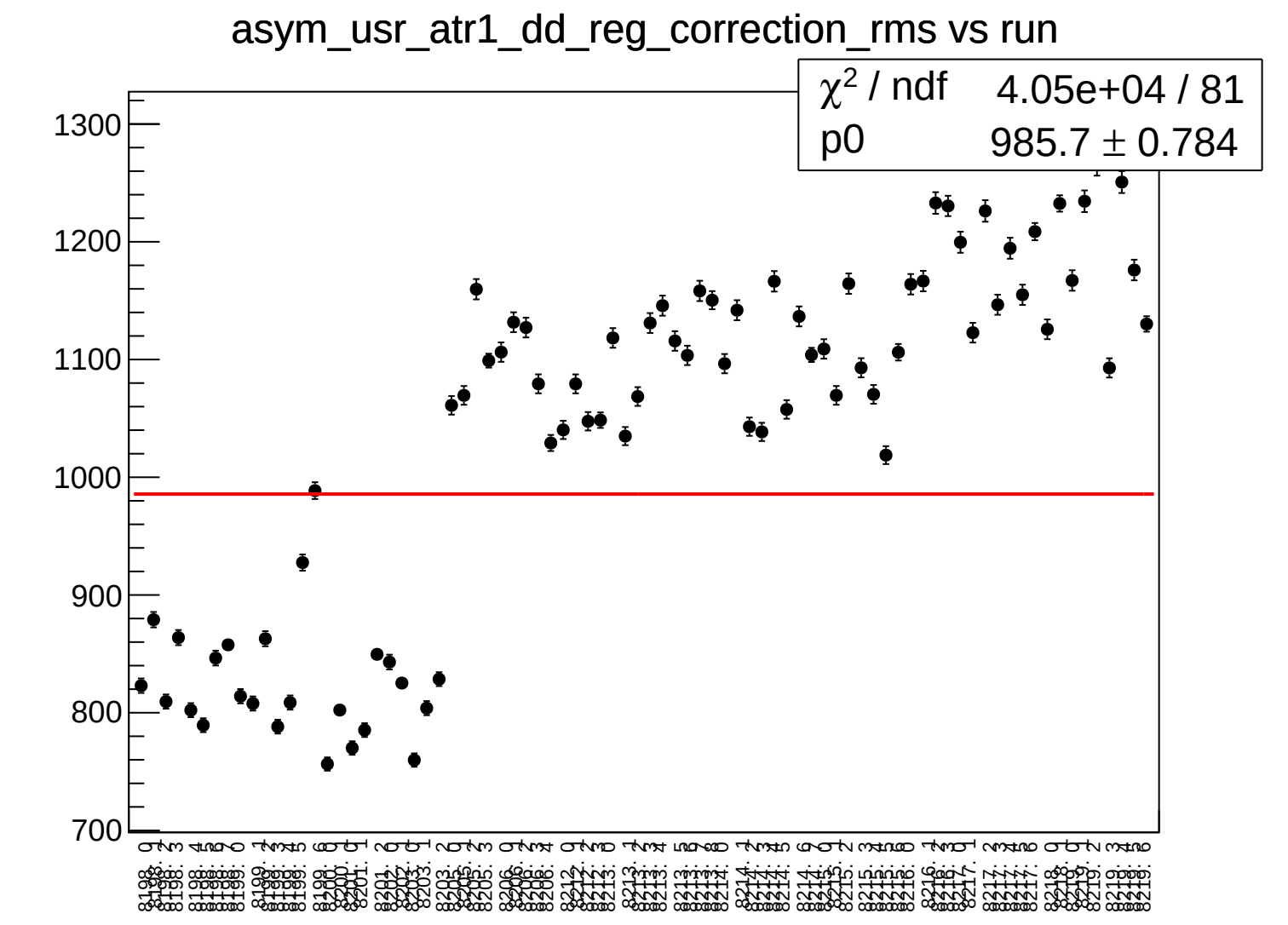

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 72.33 / 81
p0 2028 ± 1471
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −305.4
Std Dev 0
2
1
0
−1
−2

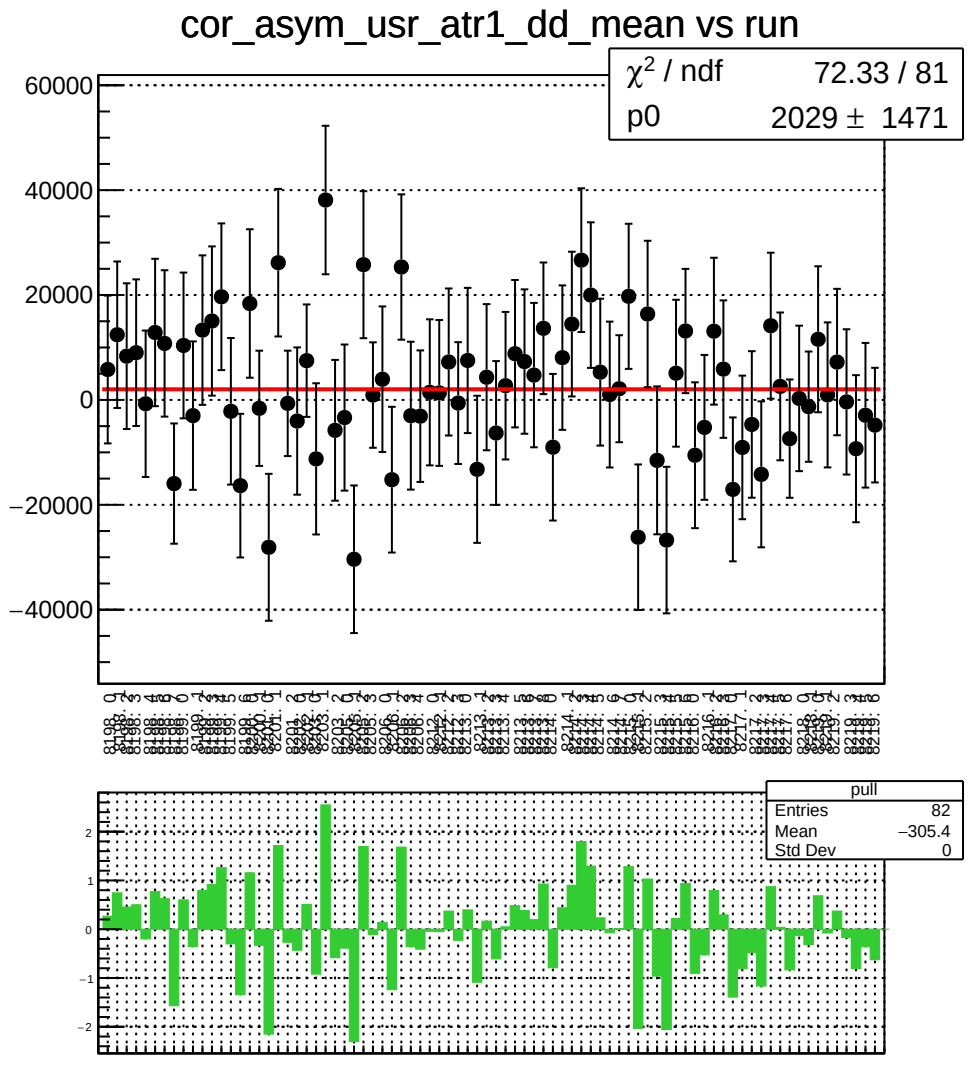

pull1D
Entries 82
Mean 0.009387
Std Dev 0.9392
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

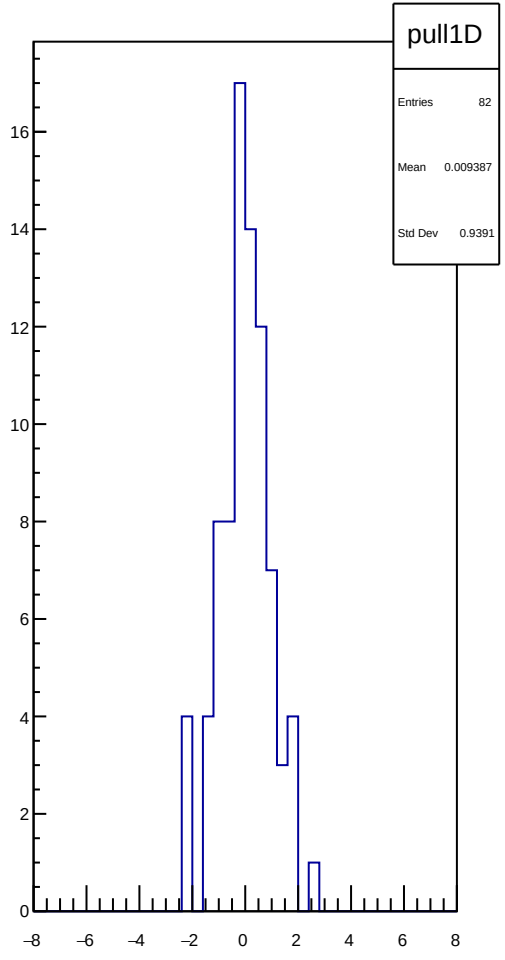

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 128.3 / 81
p0 1324 ± 1.04
1380
1360
1340
1320
1300

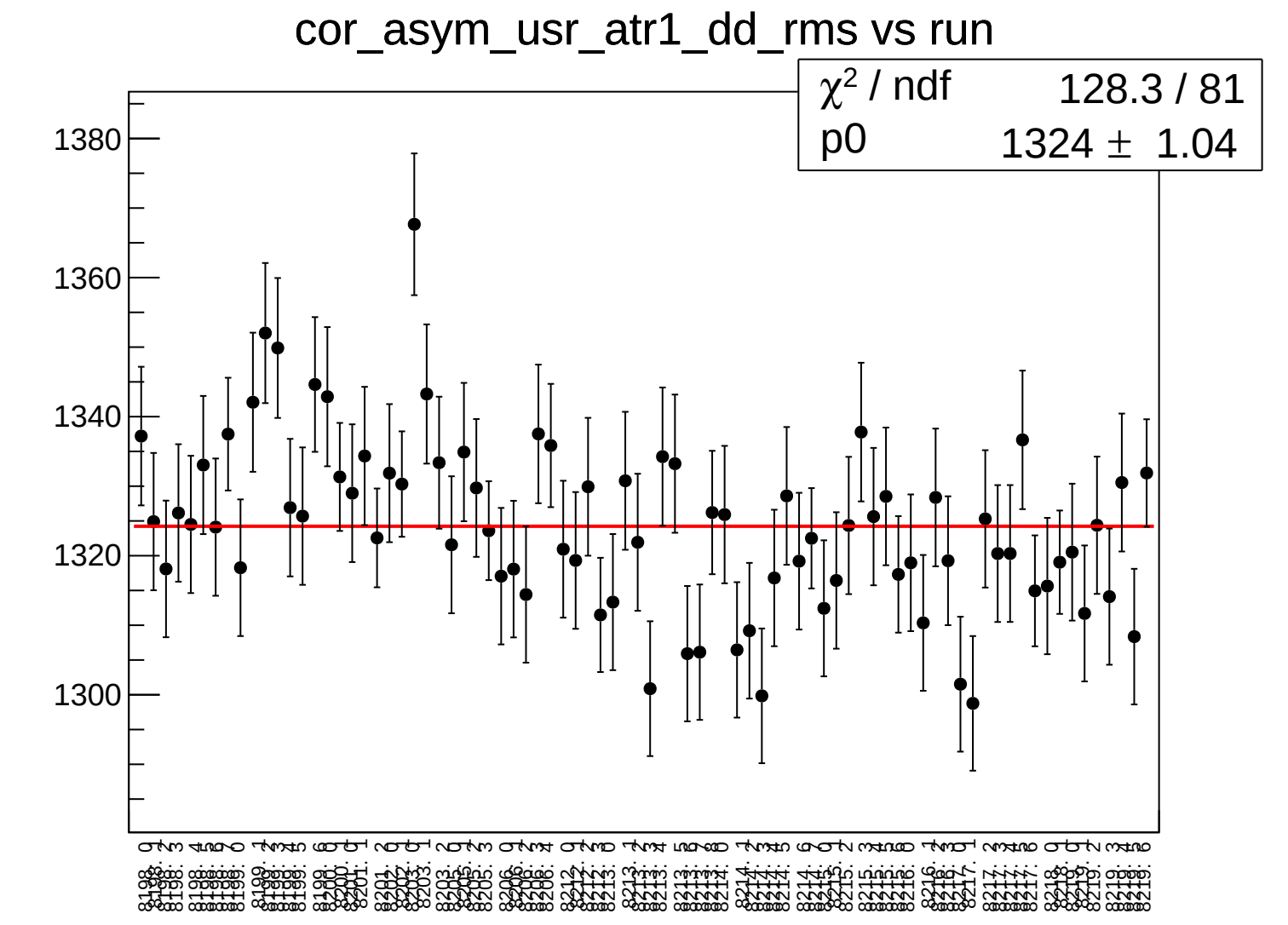

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 87.13 / 81
p0 1066 ± 1109
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 851.5
Std Dev 0
3
2
1
0
−1
−2
−3

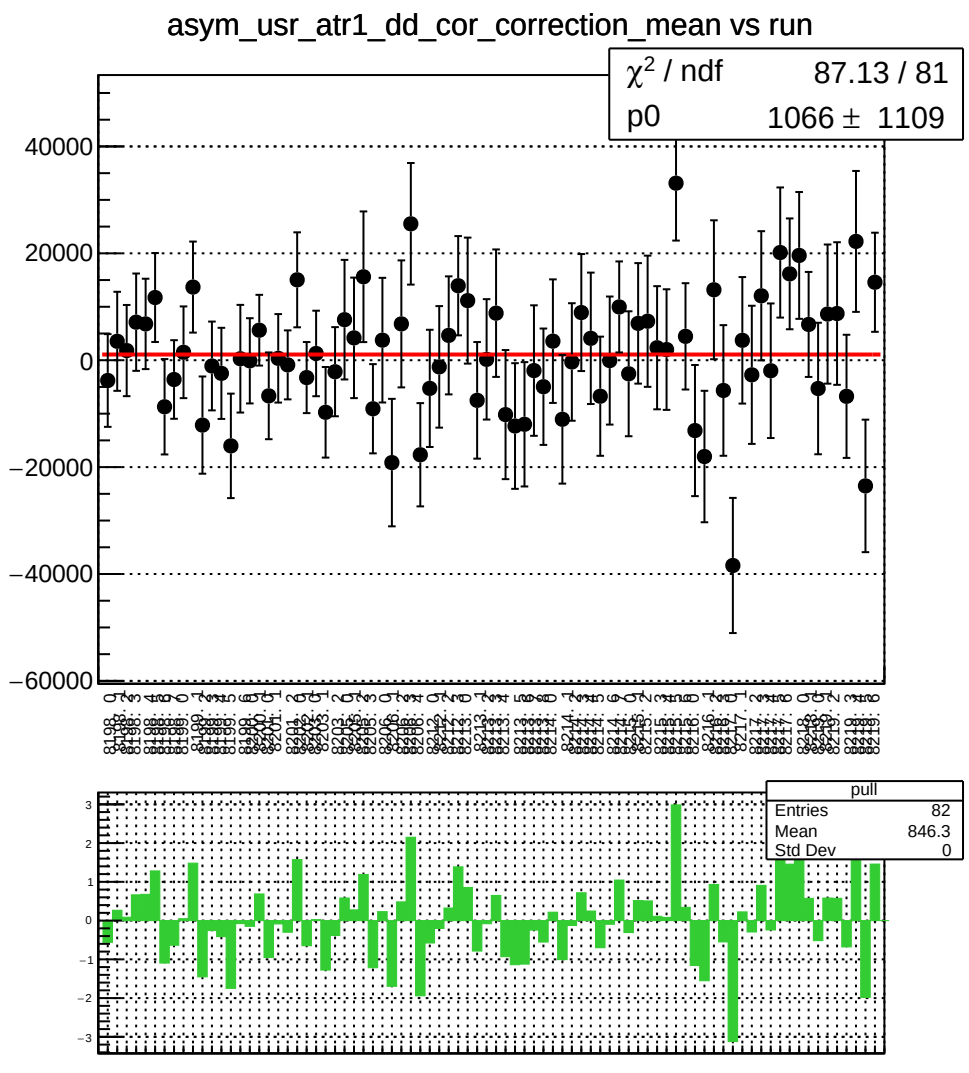

pull1D
Entries 82
Mean 0.003325
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

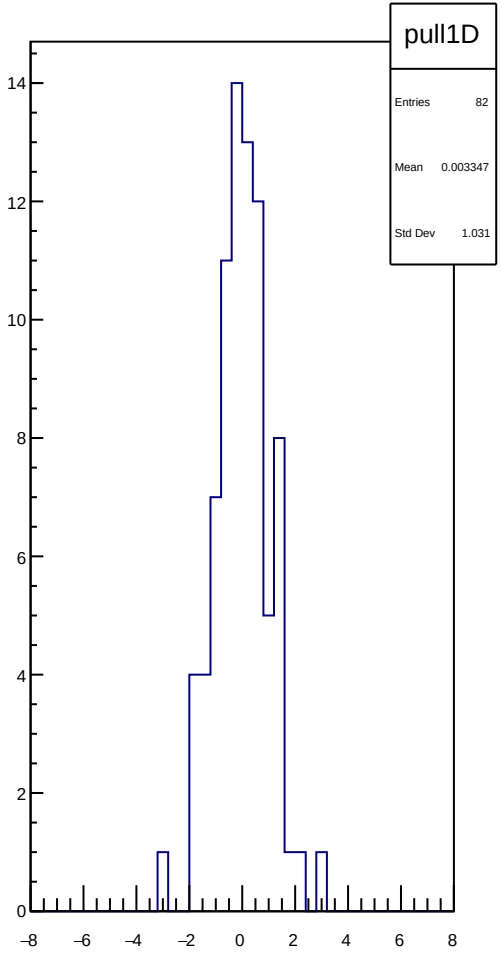

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 4.05e+04 / 81
p0 985.7 ± 0.784
1300
1200
1100
1000
900
800
700

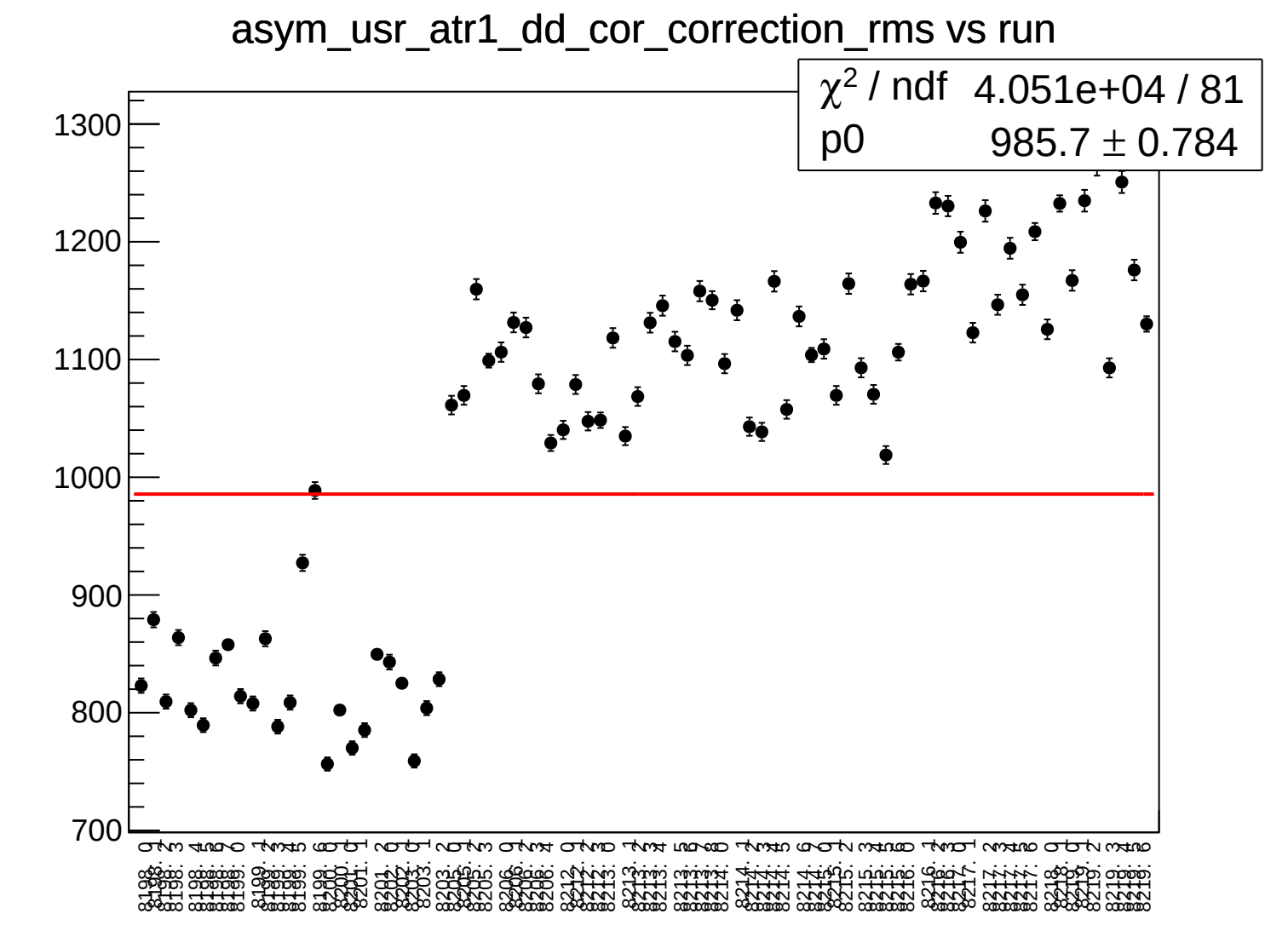

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 72.33 / 81
p0 2029 ± 1471
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −305.4
Std Dev 0
2
1
0
−1
−2

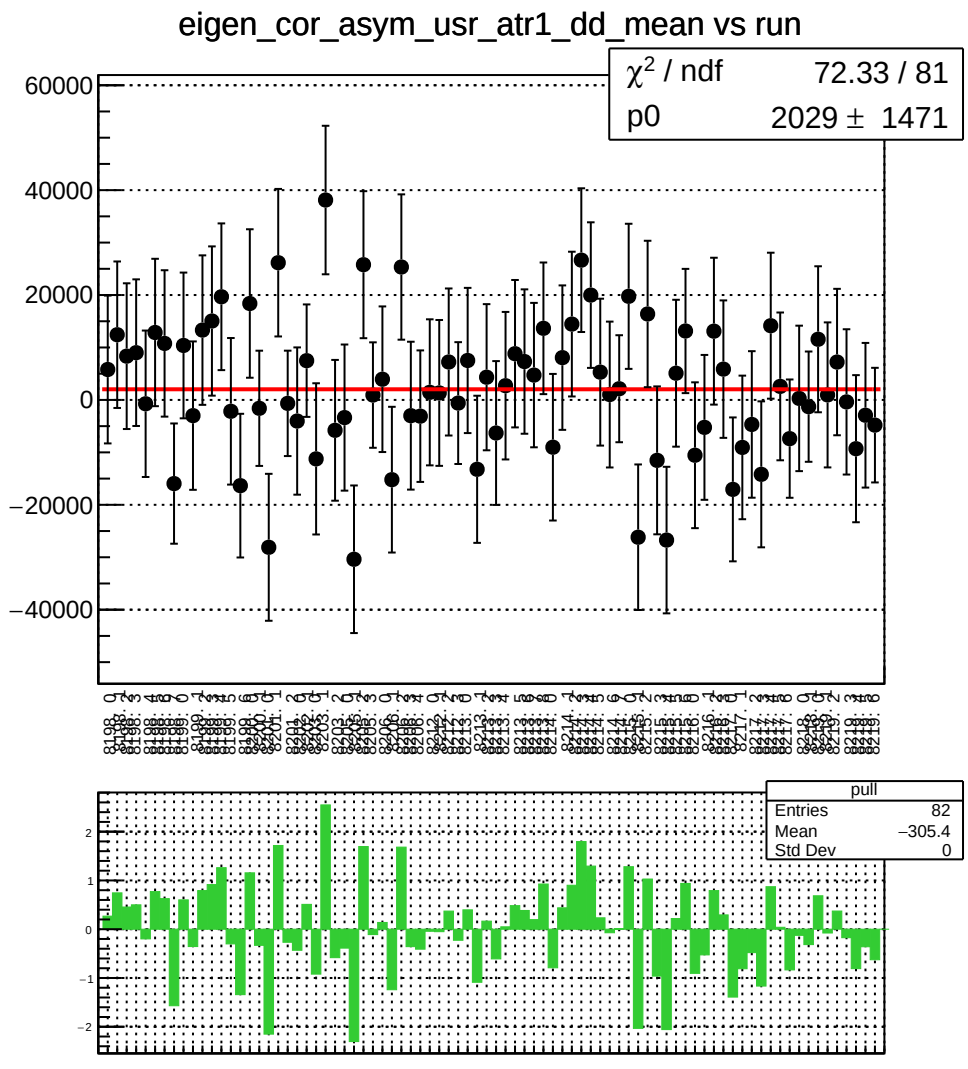

pull1D
Entries 82
Mean 0.009387
Std Dev 0.9391
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

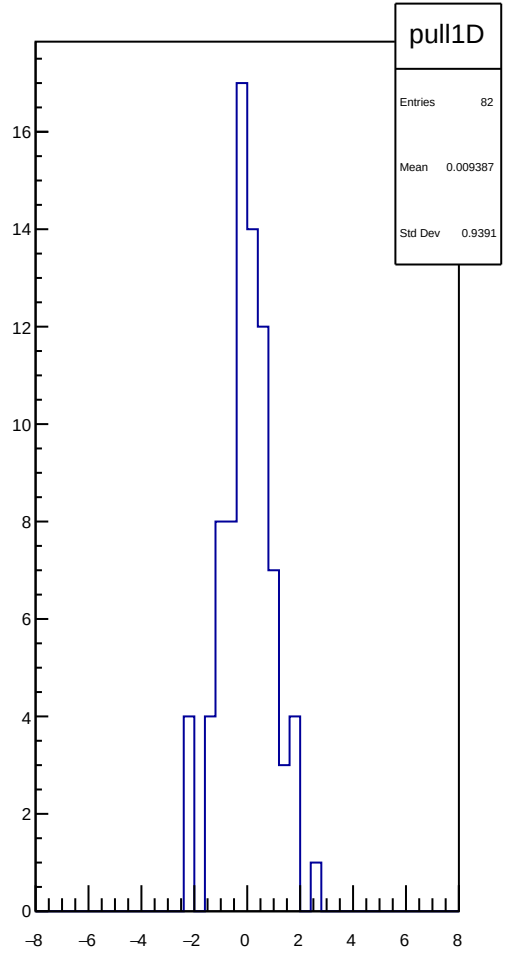

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 128.3 / 81
p0 1324 ± 1.04
1380
1360
1340
1320
1300

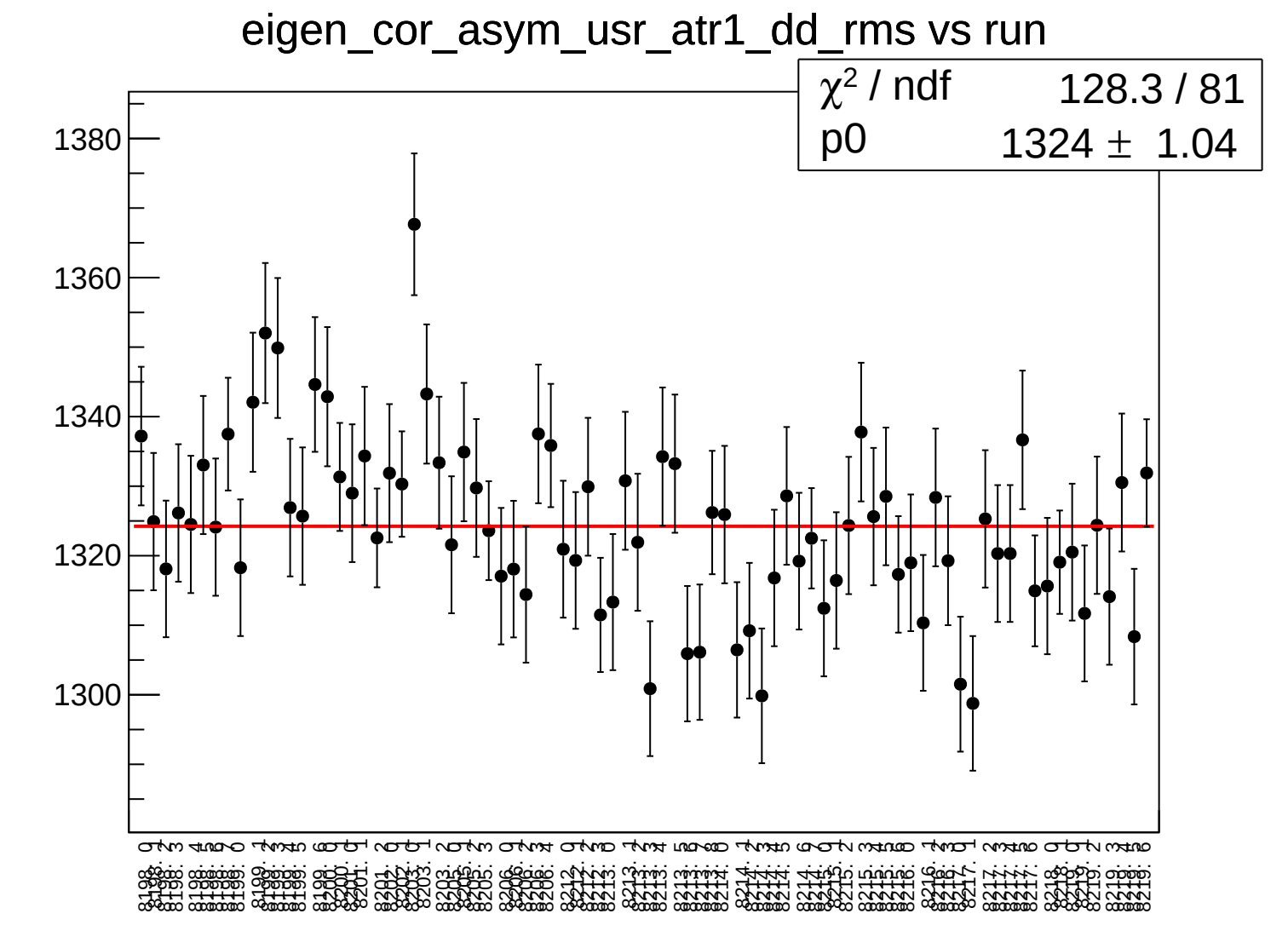

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 87.13 / 81
p0 1066 ± 1109
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 846.3
Std Dev 0
3
2
1
0
−1
−2
−3

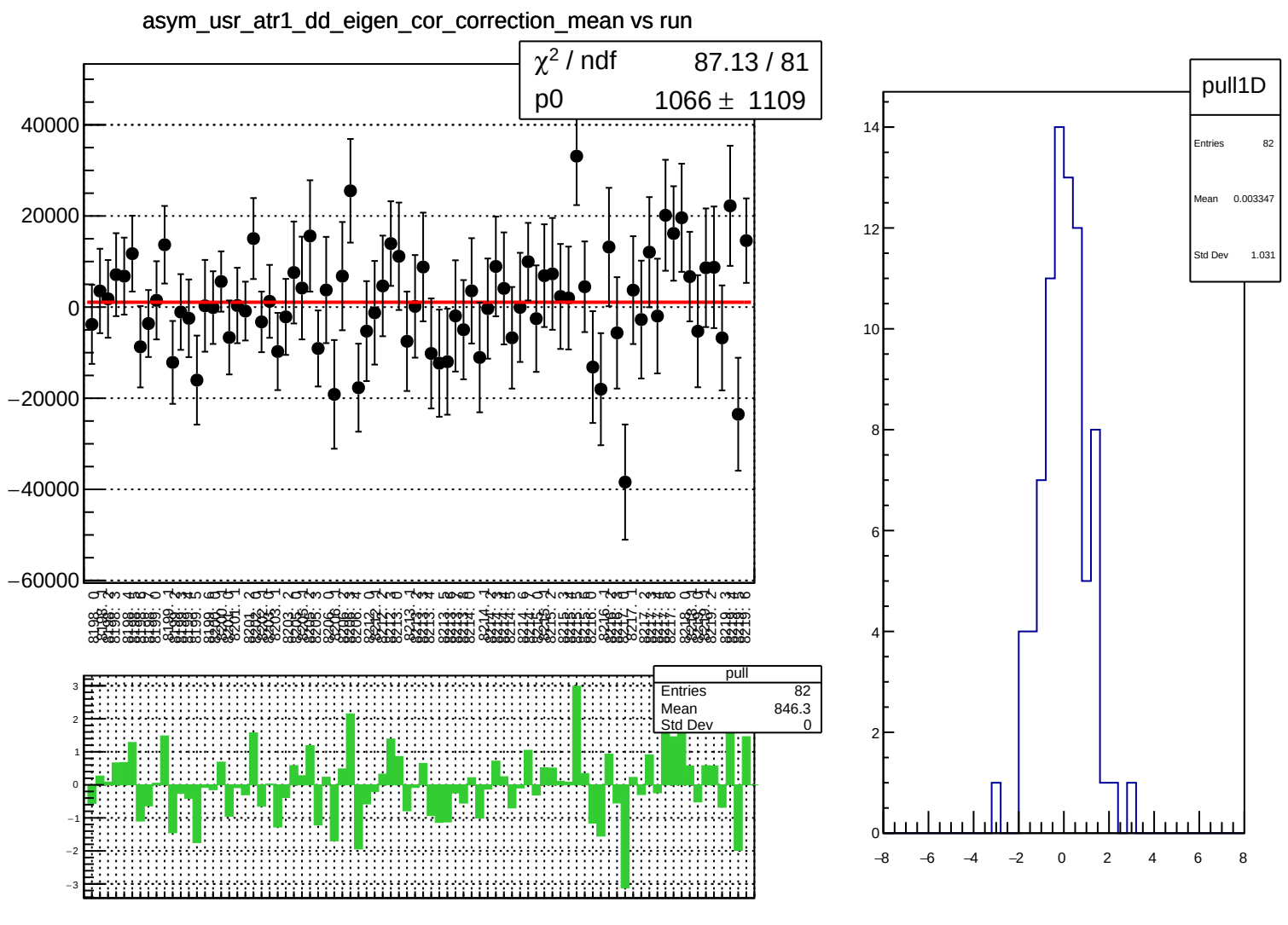

pull1D
Entries 82
Mean 0.003347
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

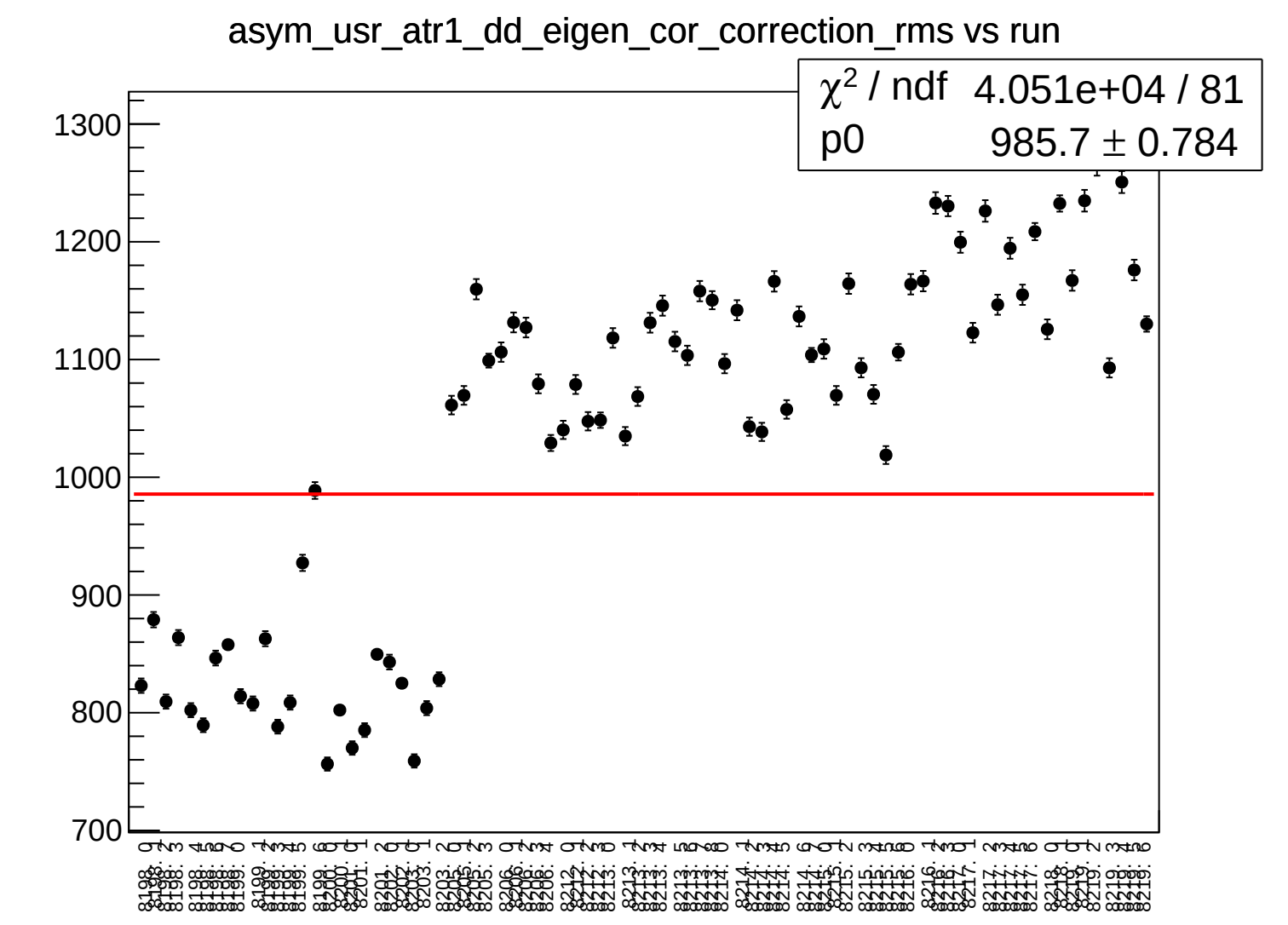

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 4.051e+04 / 81
p0 985.7 ± 0.784
1300
1200
1100
1000
900
800
700

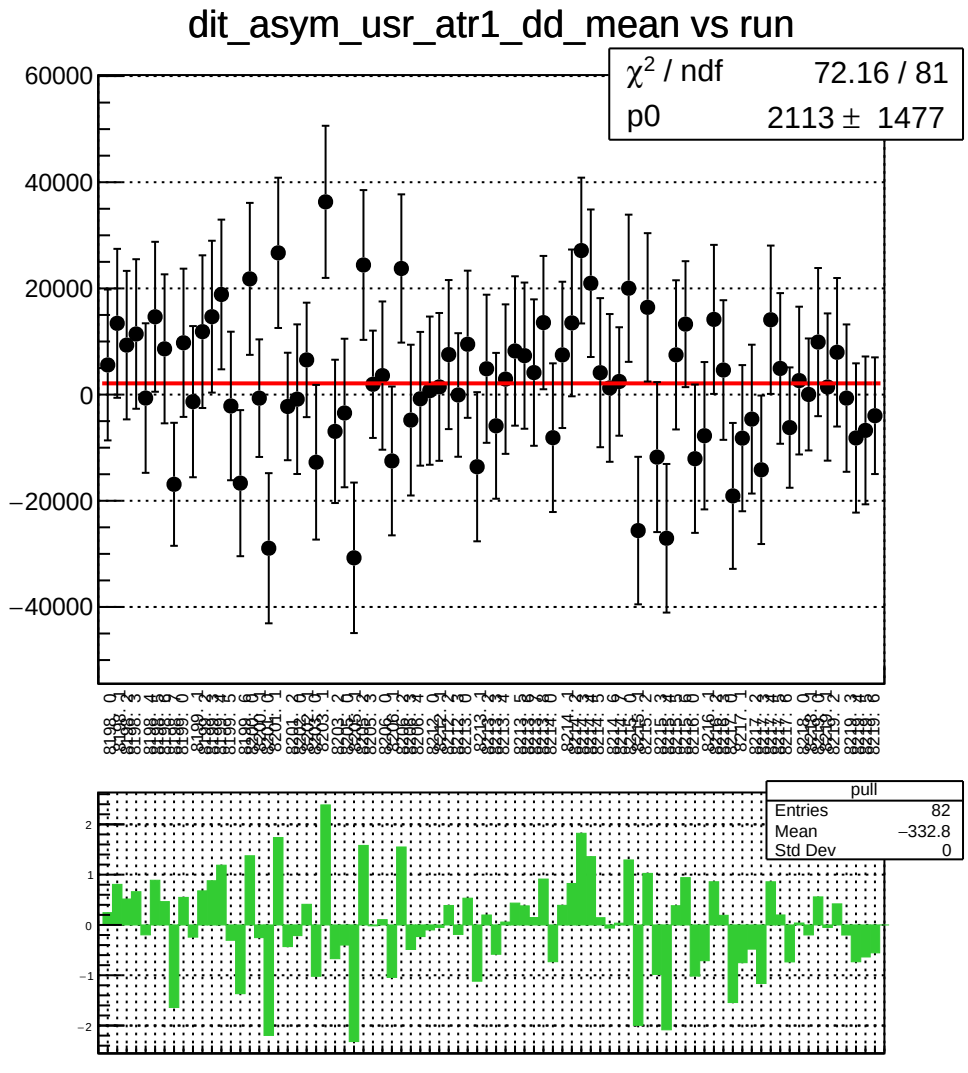

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 72.33 / 81
p0 2029 ± 1471
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −305.4
Std Dev 0
2
1
0
−1
−2

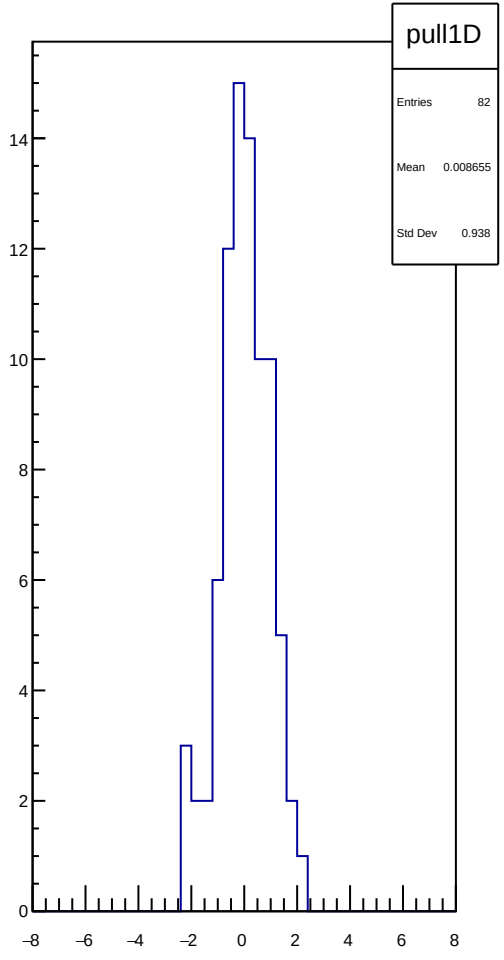

pull1D
Entries 82
Mean 0.009387
Std Dev 0.9391
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

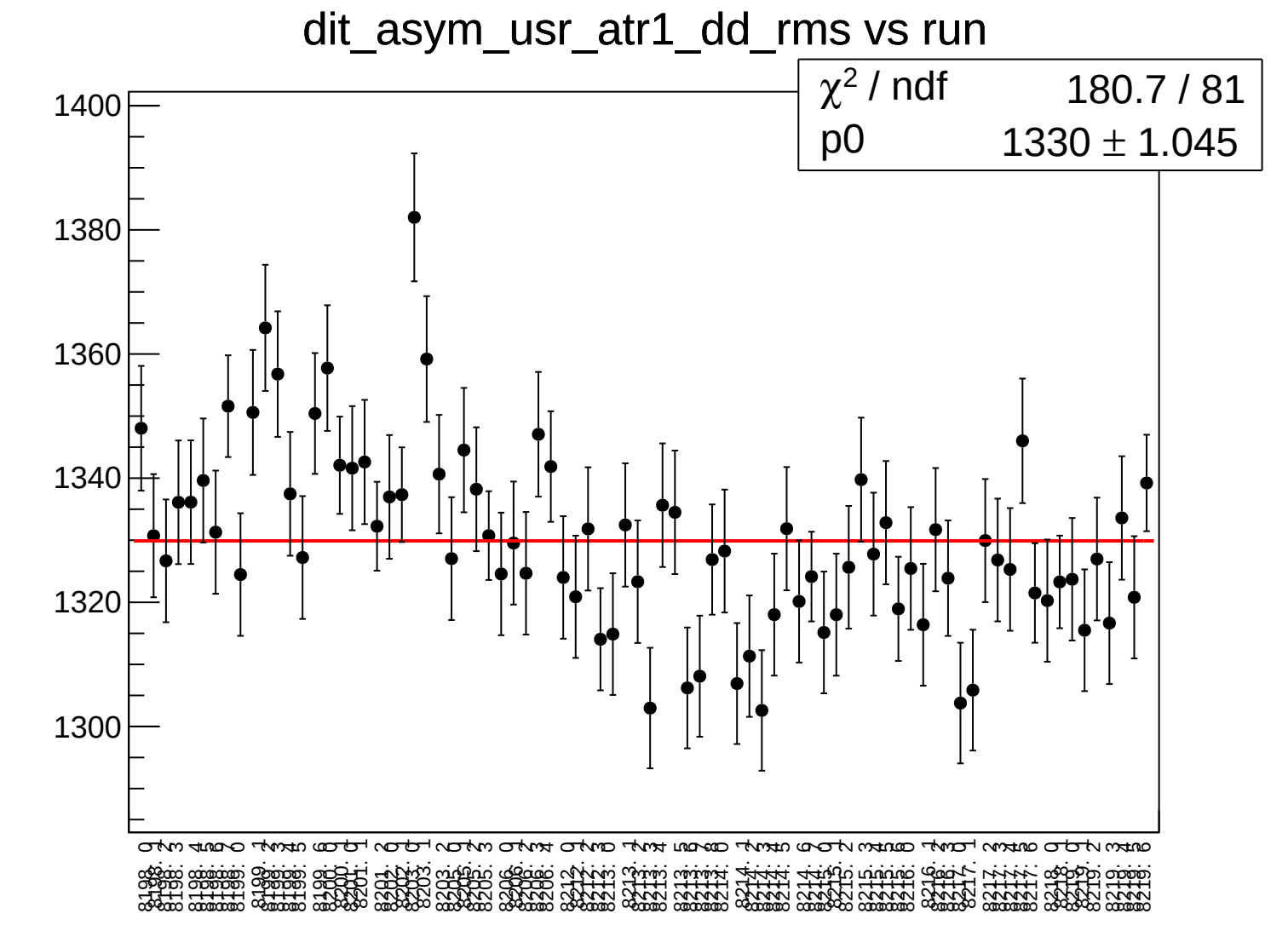

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 128.3 / 81
p0 1324 ± 1.04
1380
1360
1340
1320
1300

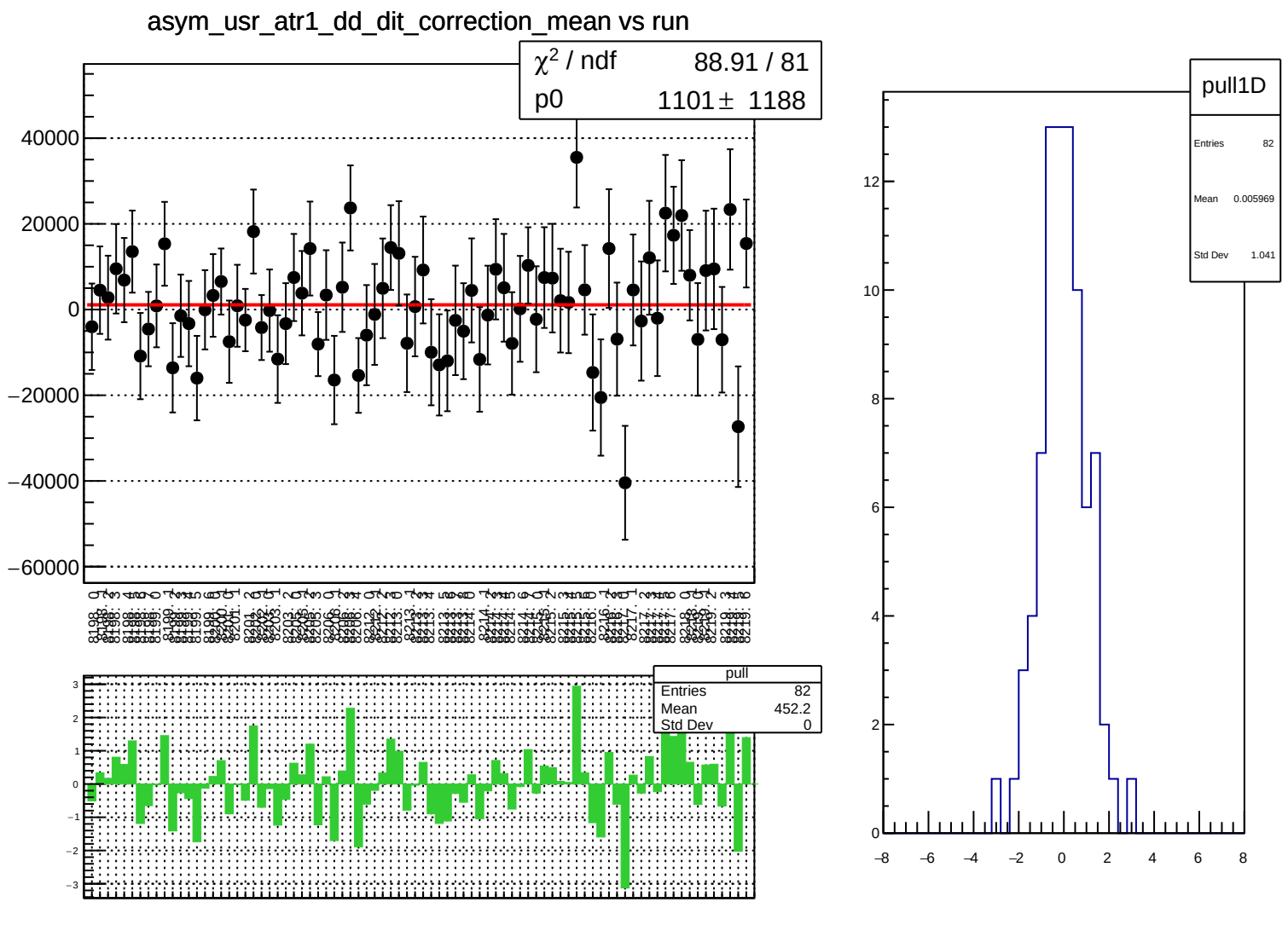

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.13 / 81
p0 1066 ± 1109
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 846.3
Std Dev 0
pull1D
Entries 82
Mean 0.003347
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

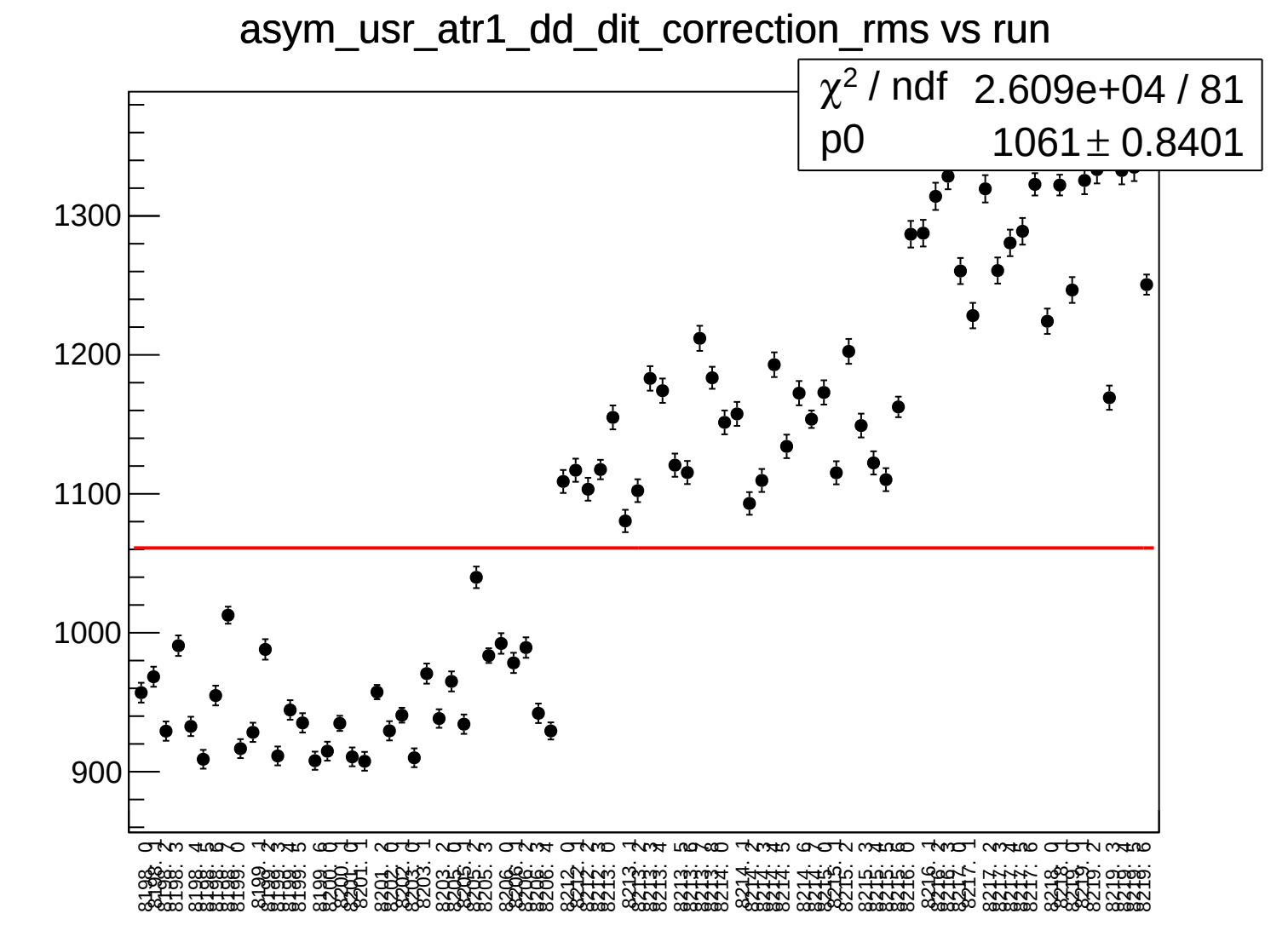

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.051e+04 / 81
p0 985.7 ± 0.784
1300
1200
1100
1000
900
800
700

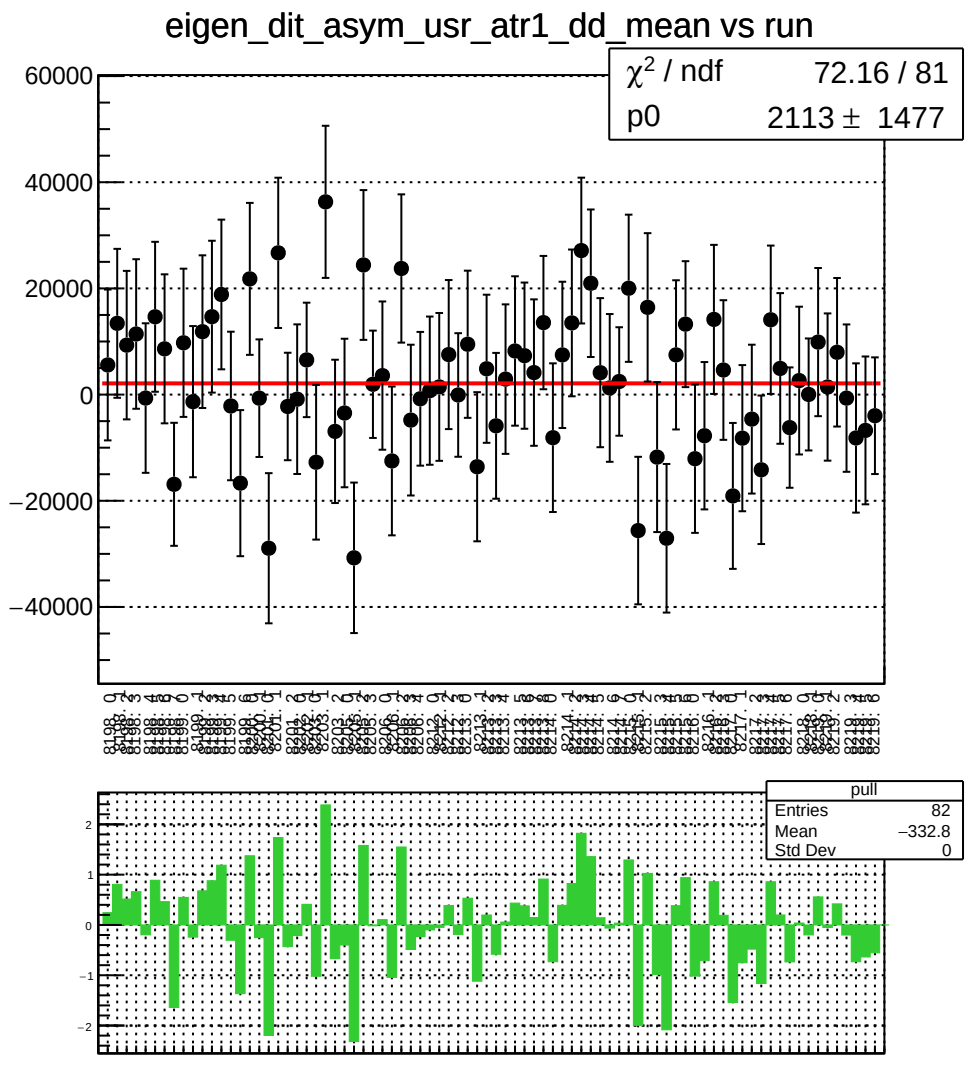

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 72.16 / 81
p0 2113 ± 1477
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −332.8
Std Dev 0
2
1
0
−1
−2

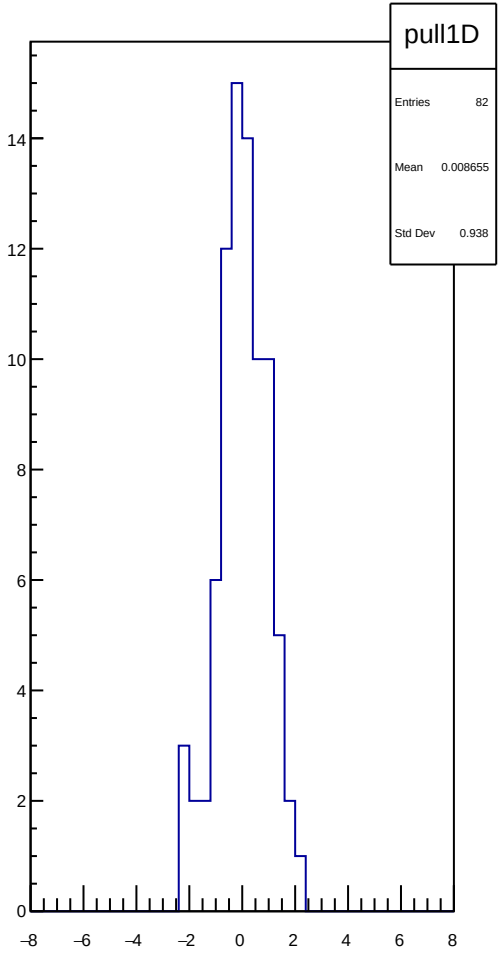

pull1D
Entries 82
Mean 0.008655
Std Dev 0.938
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

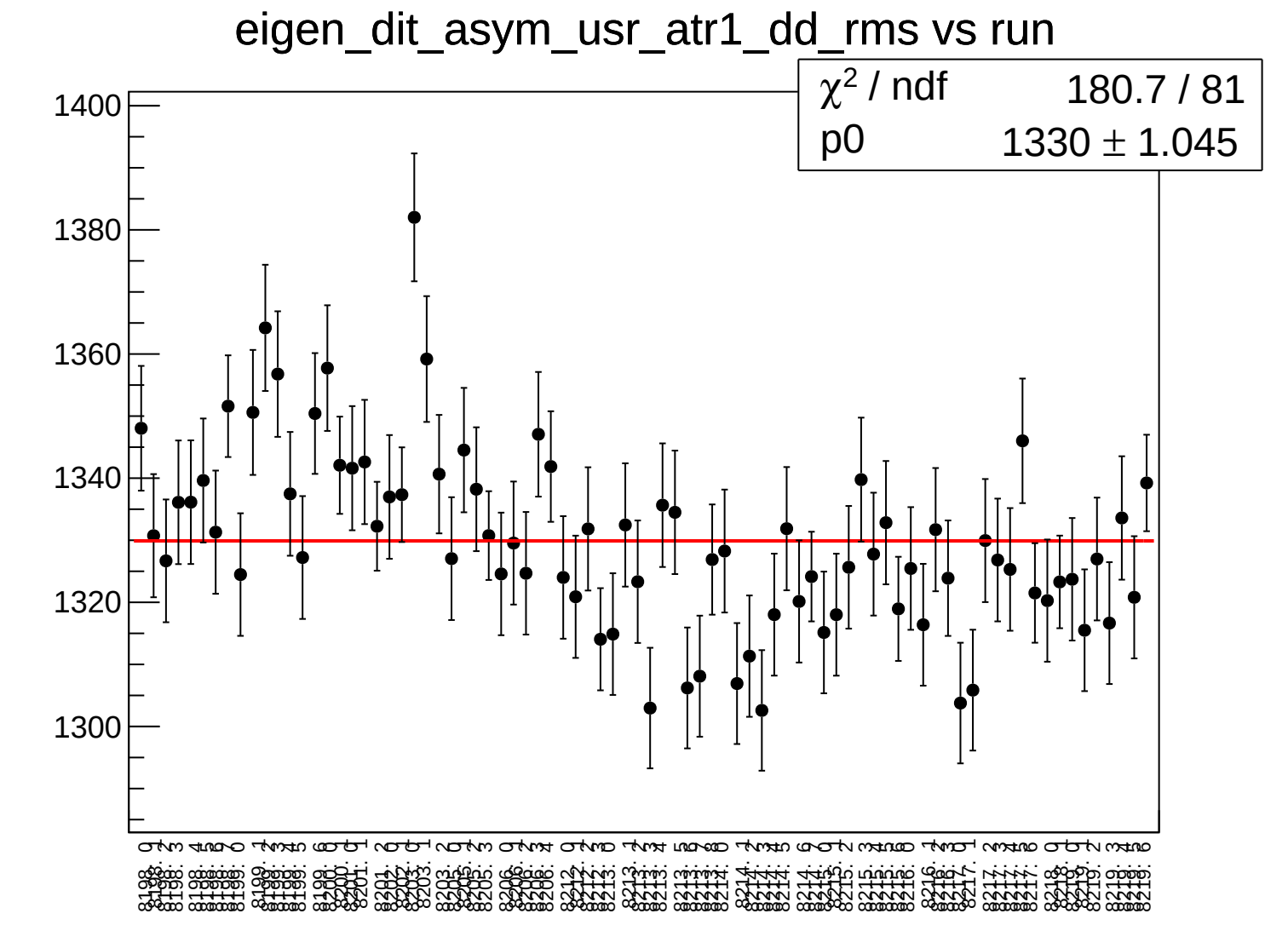

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 180.7 / 81
p0 1330 ± 1.045
1400
1380
1360
1340
1320
1300

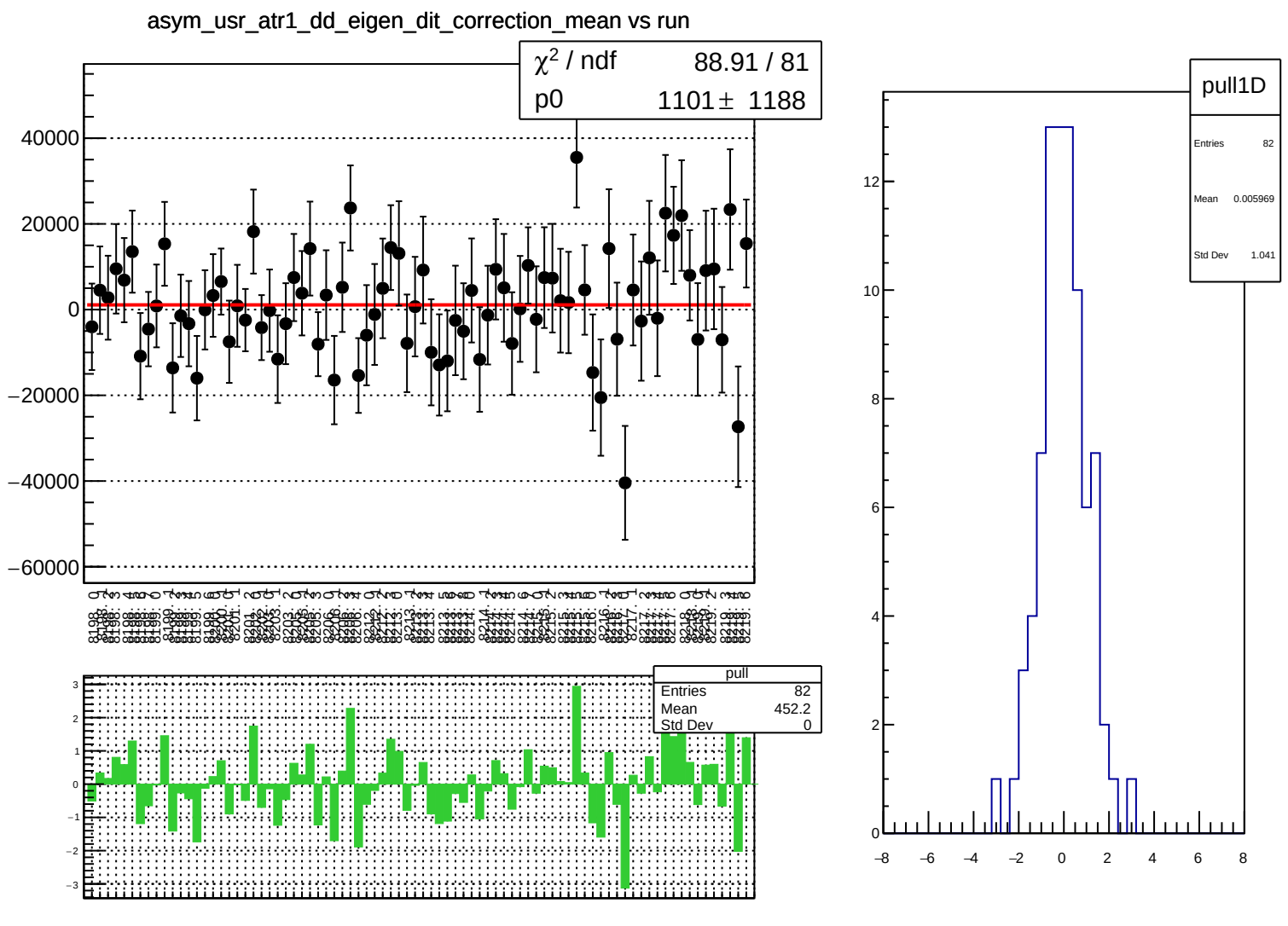

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 88.91 / 81
p0 1101 ± 1188
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 452.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.005969
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

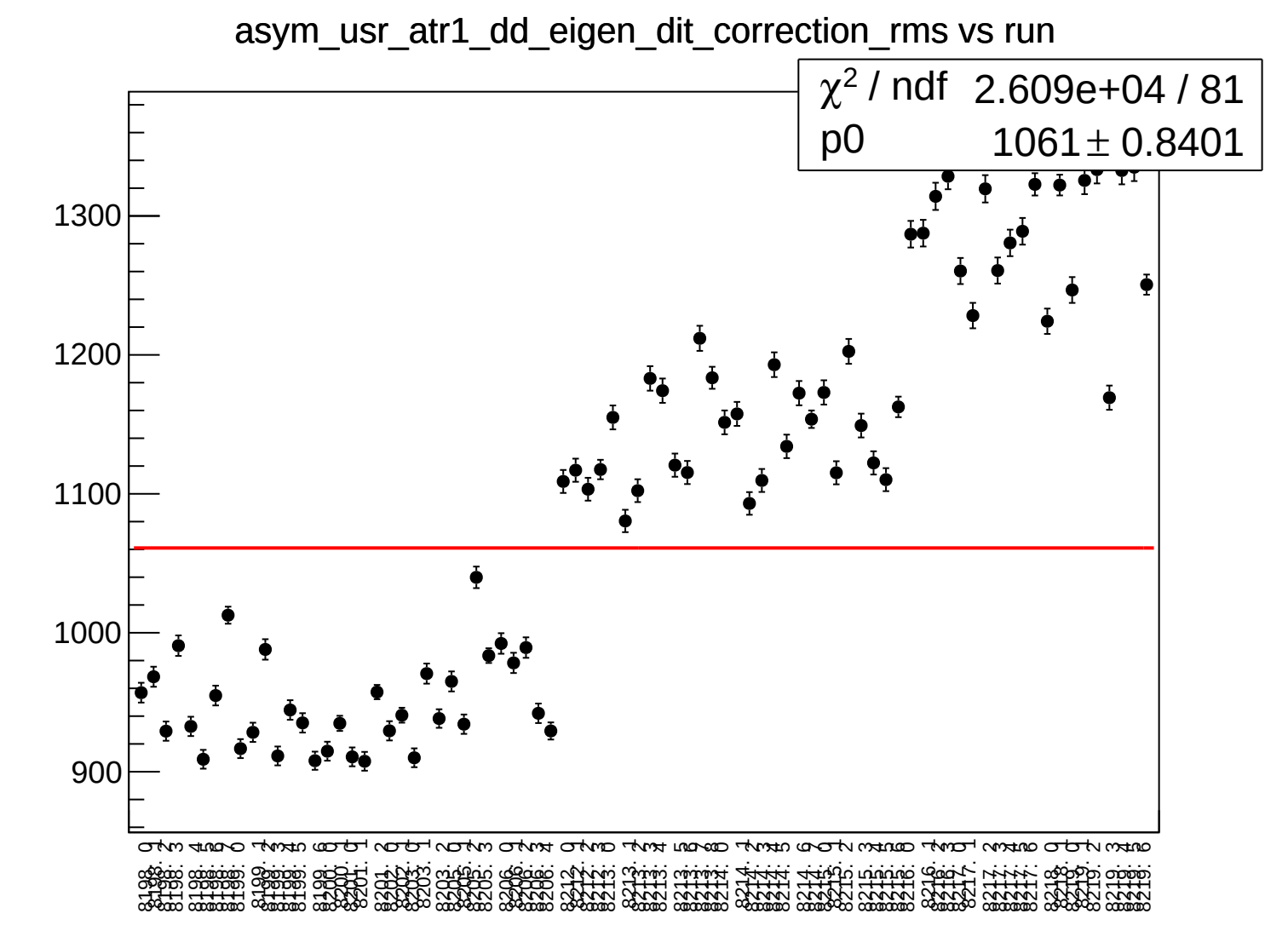

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 2.609e+04 / 81
p0 1061 ± 0.8401
1300
1200
1100
1000
900

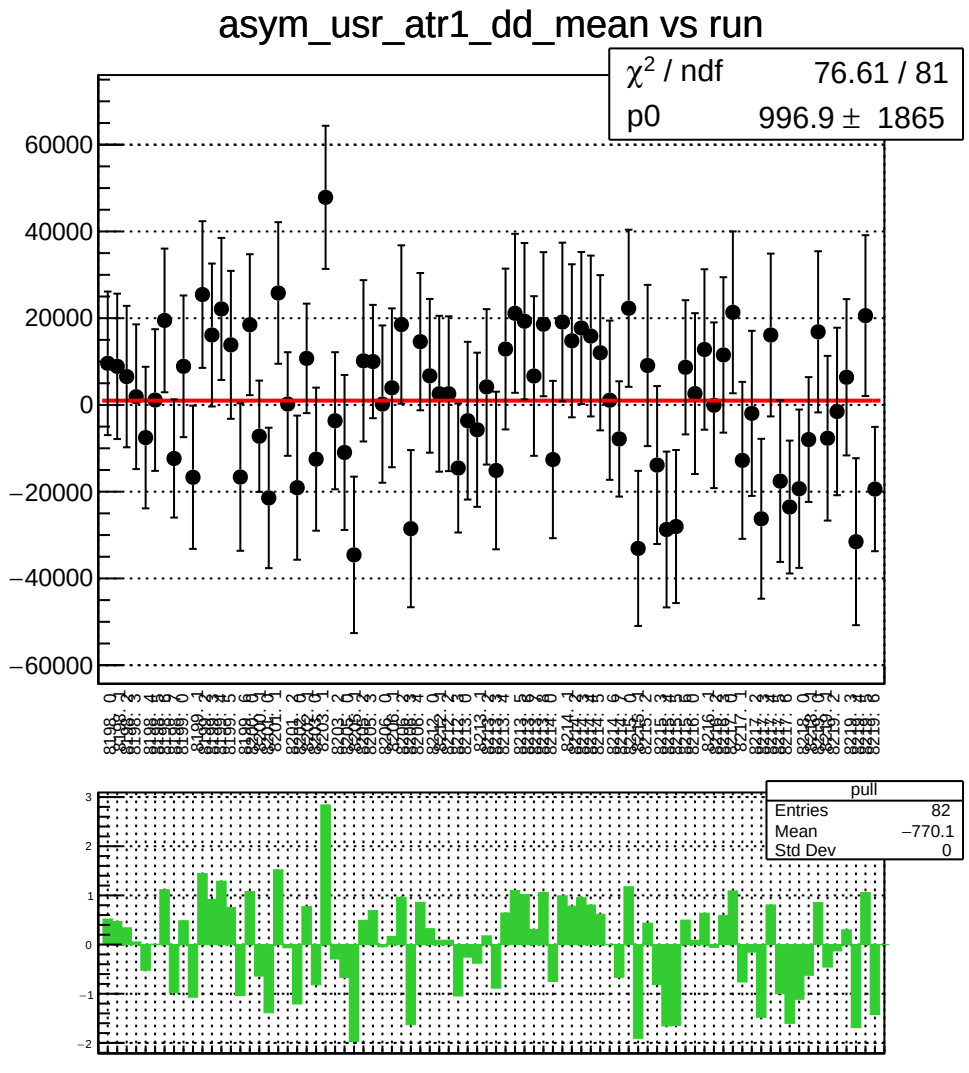

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 72.16 / 81
p0 2113 ± 1477
pull
Entries 82
Mean −332.8
Std Dev 0

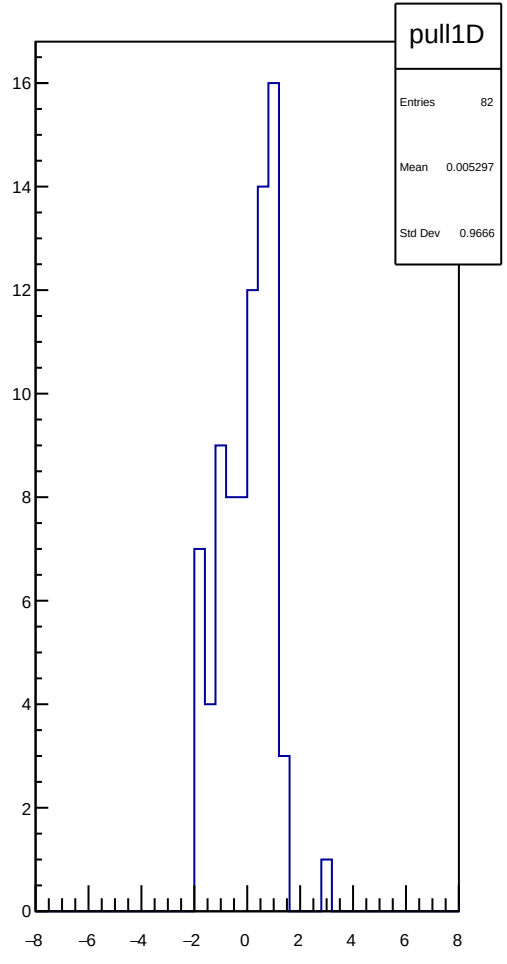

pull1D
Entries 82
Mean 0.008655
Std Dev 0.938

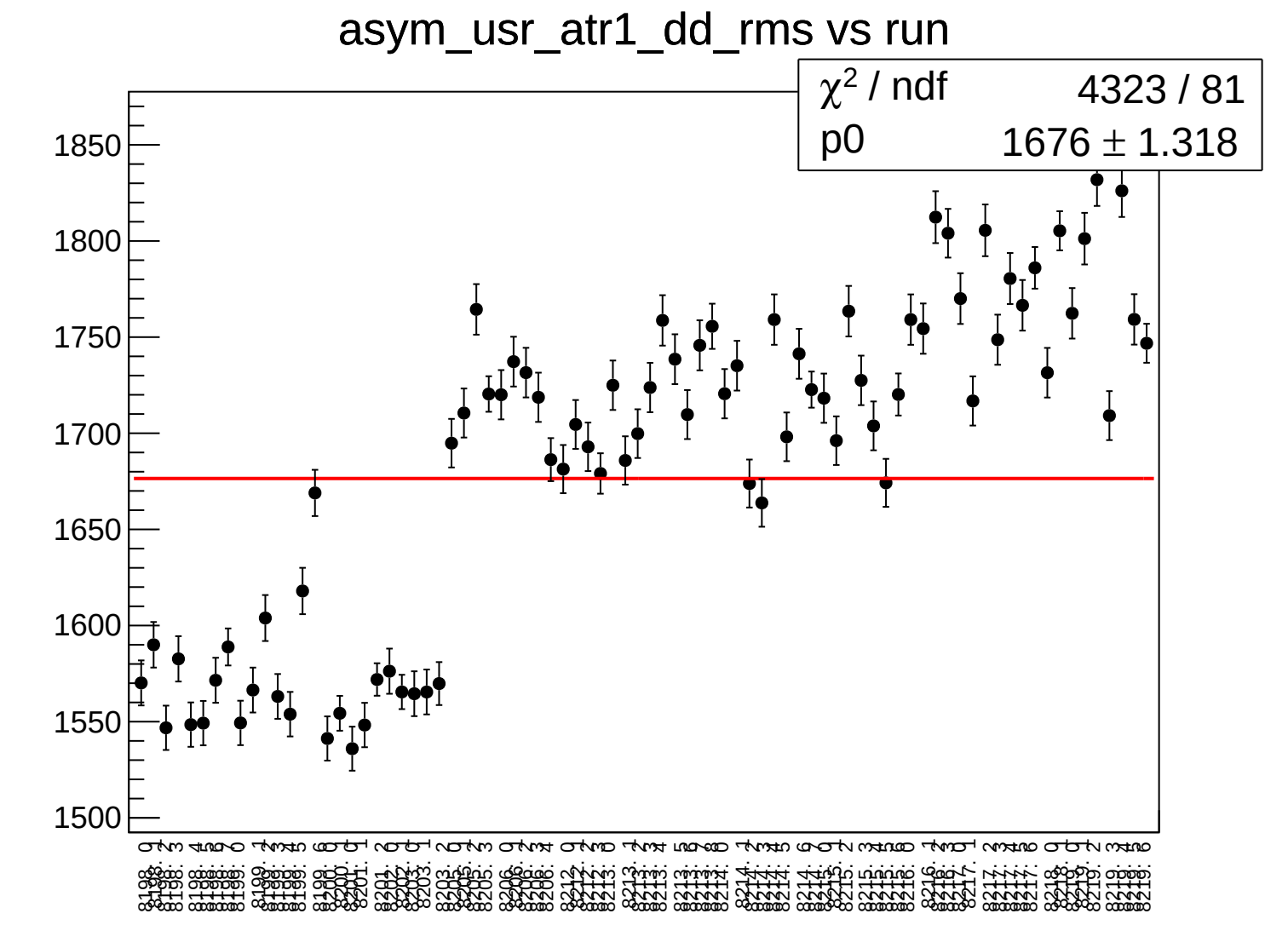

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 180.7 / 81
p0 1330 ± 1.045
1400
1380
1360
1340
1320
1300

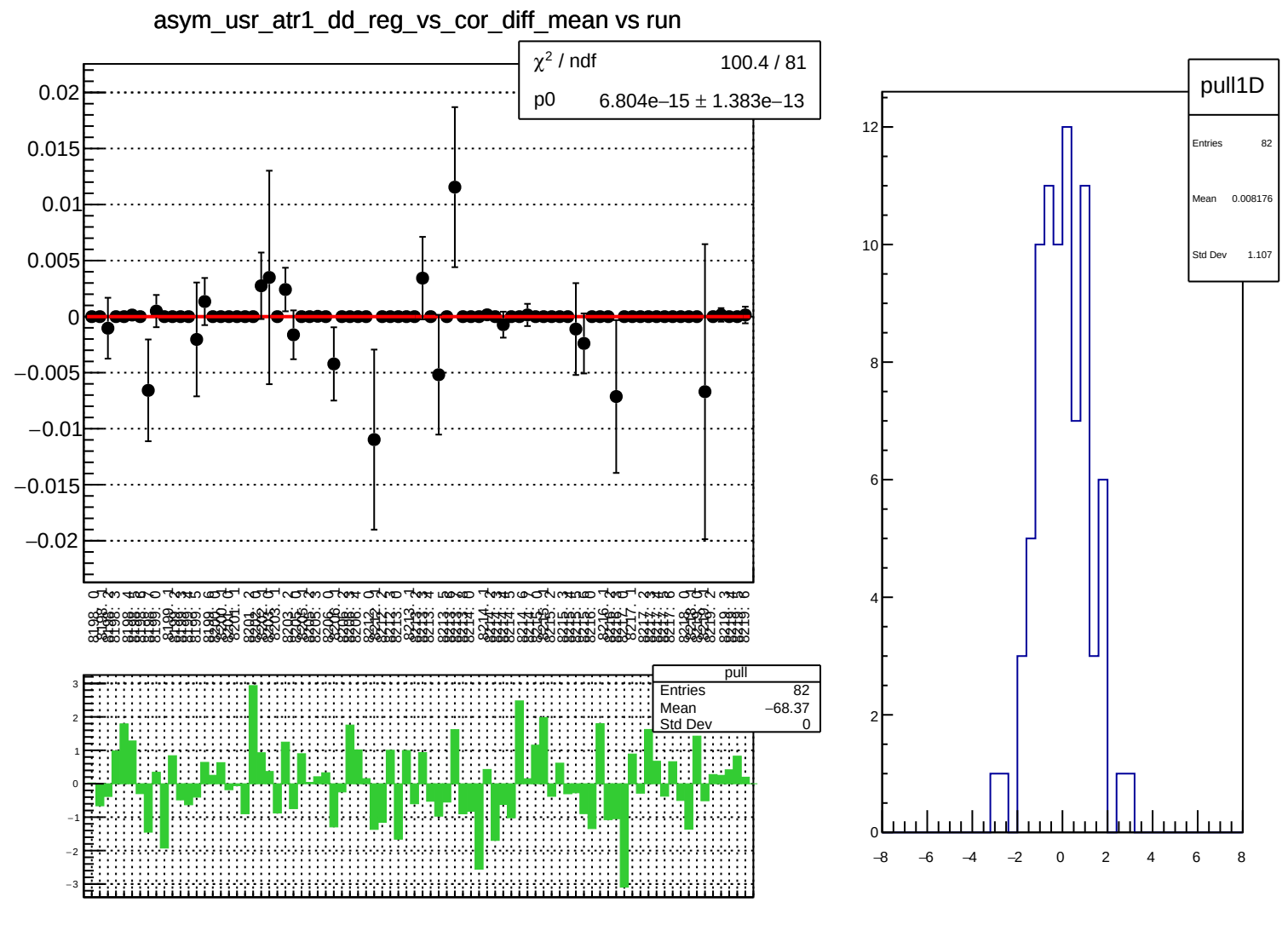

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.91 / 81
p0 1101 ± 1188
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 452.2
Std Dev 0
pull1D
Entries 82
Mean 0.005969
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

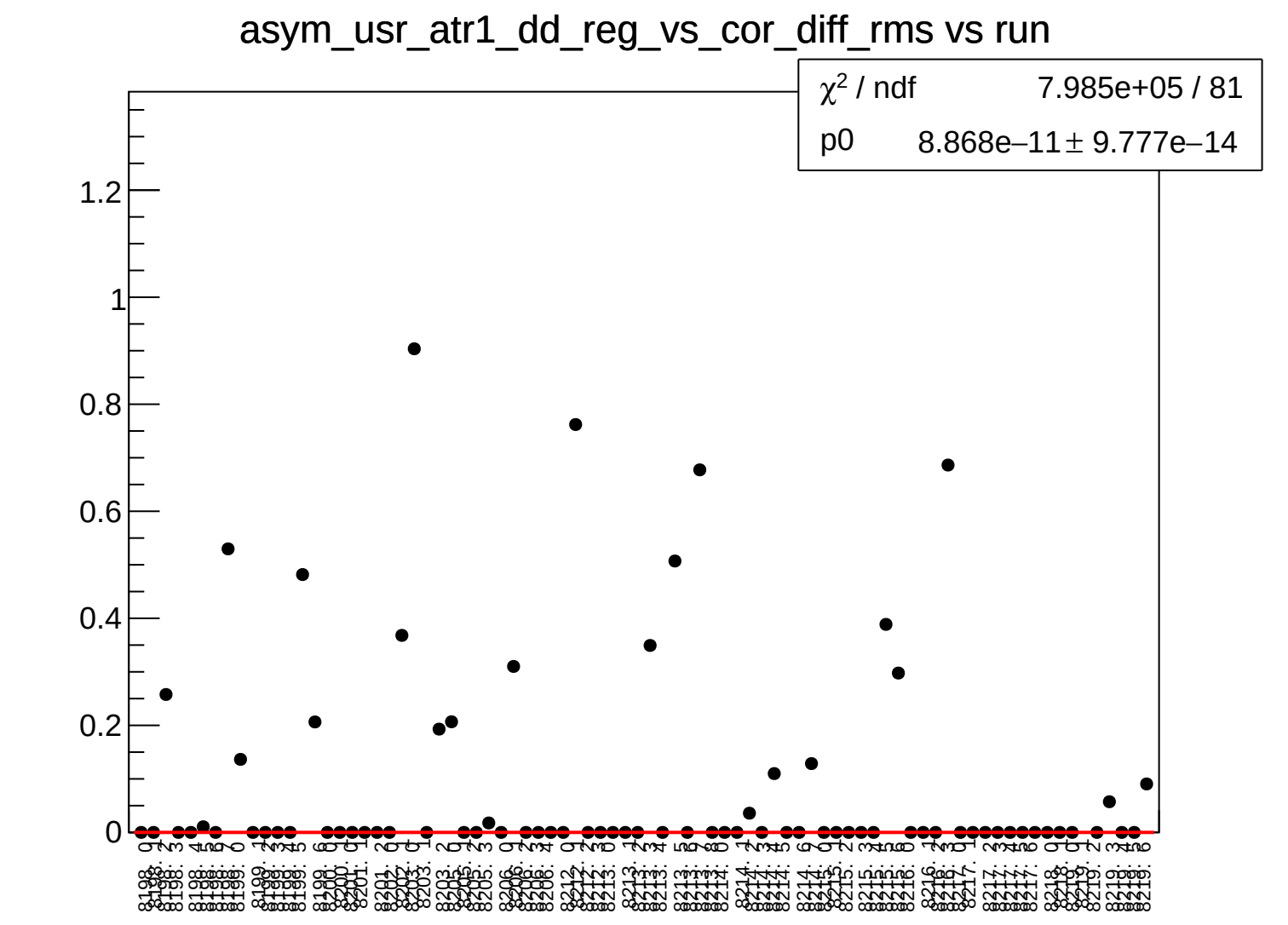

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.609e+04 / 81
p0 1061 ± 0.8401
1300
1200
1100
1000
900

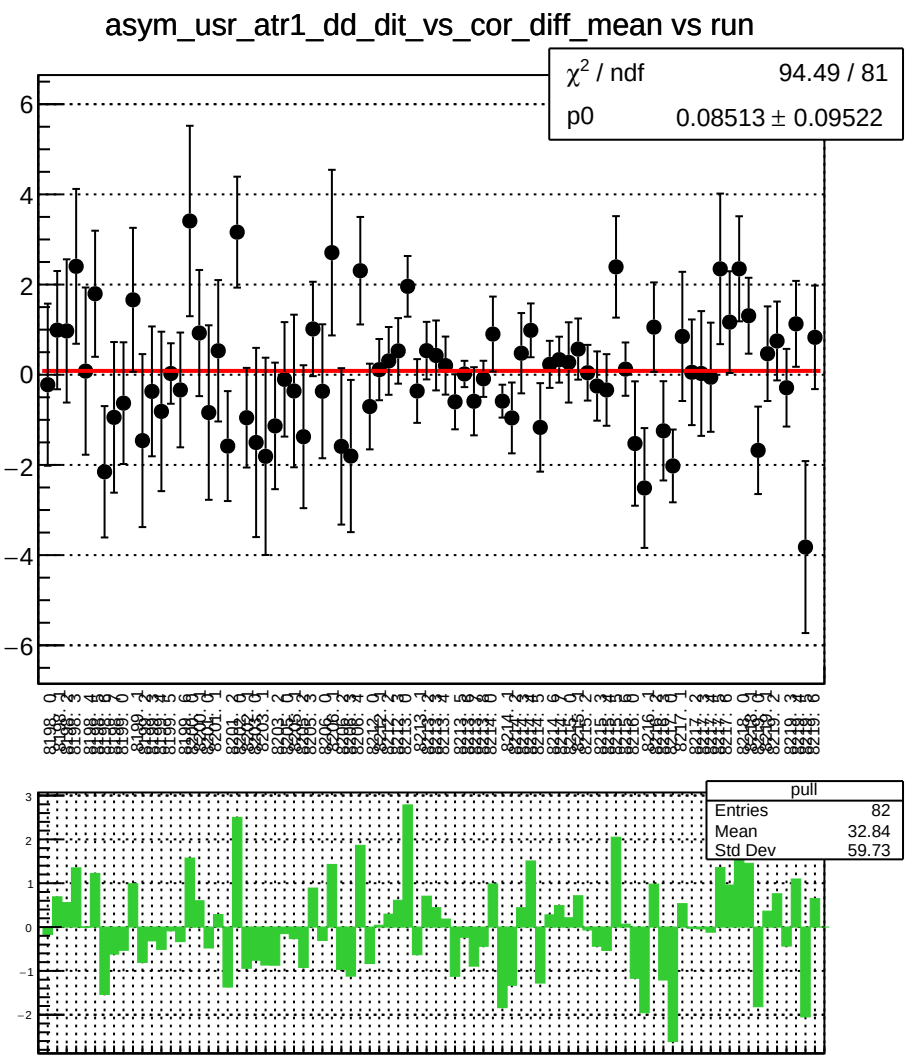

asym_usr_atr1_dd_mean vs run
χ² / ndf 76.61 / 81
p0 996.9 ± 1865
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −770.1
Std Dev 0
3
2
1
0
−1
−2

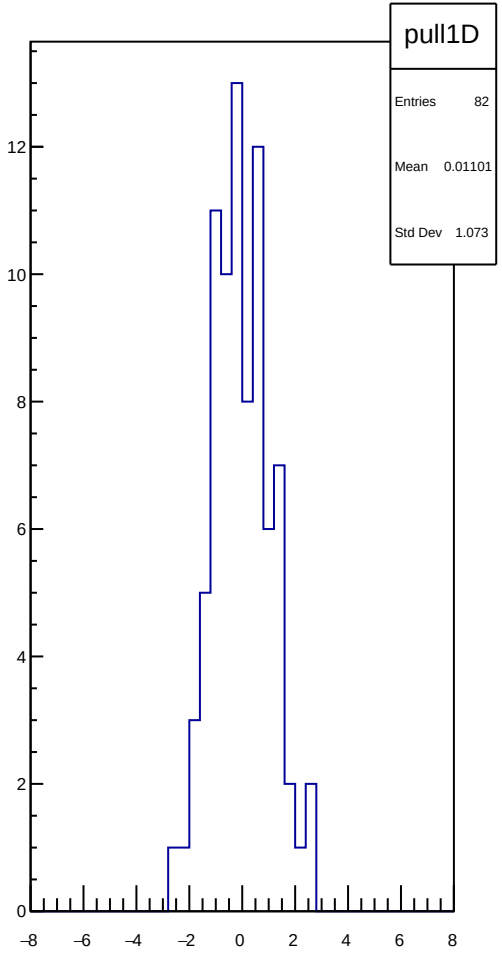

pull1D
Entries 82
Mean 0.005297
Std Dev 0.9666
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

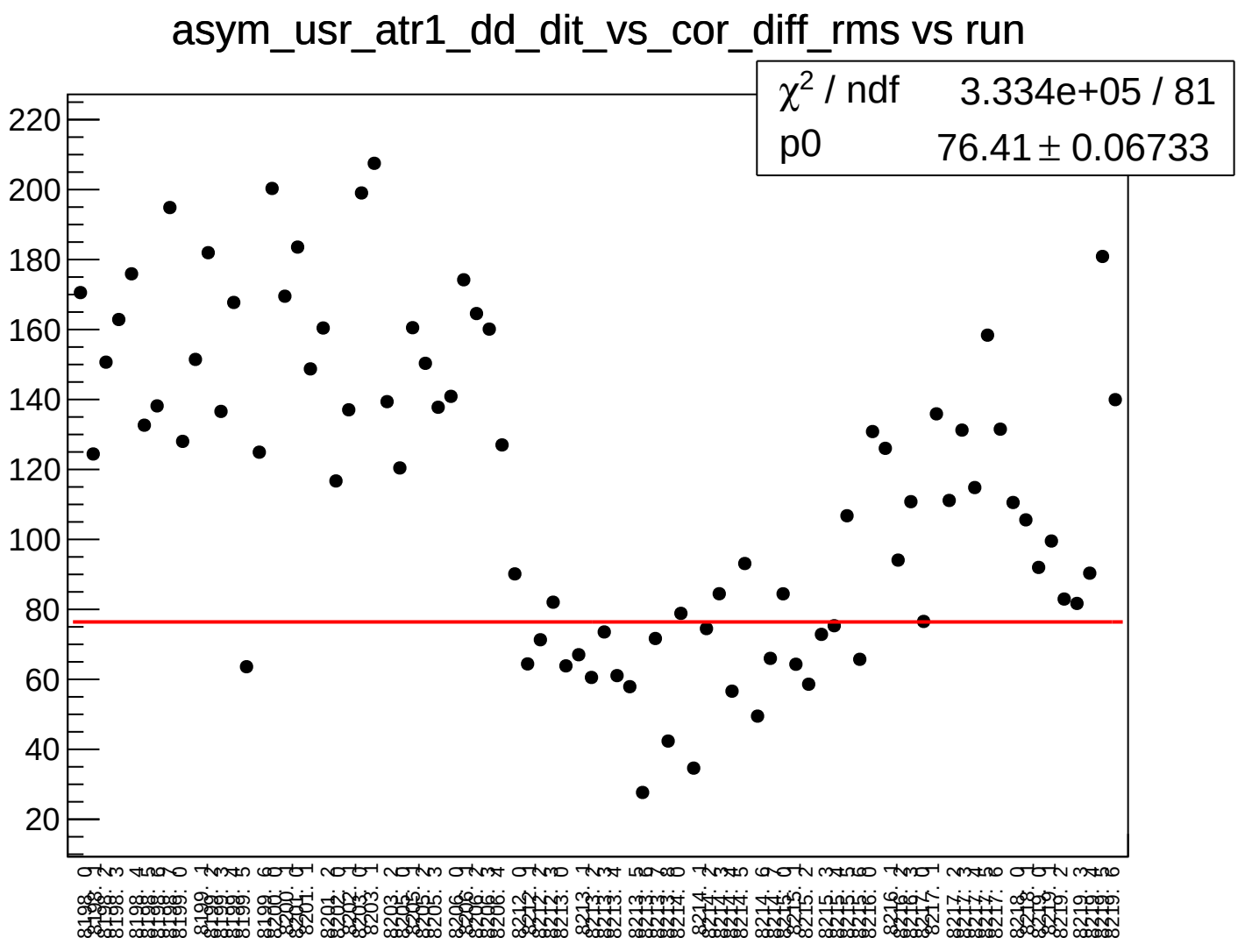

asym_usr_atr1_dd_rms vs run
χ² / ndf 4323 / 81
p0 1676 ± 1.318
1850
1800
1750
1700
1650
1600
1550
1500

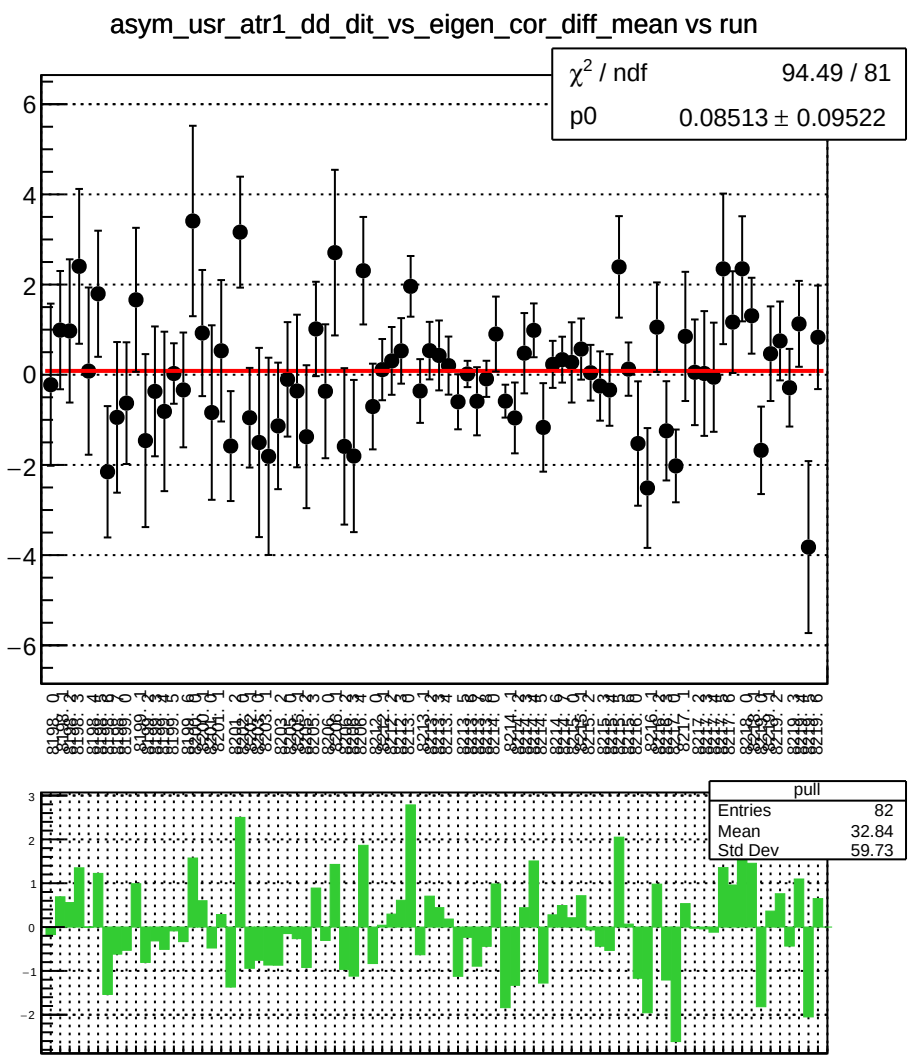

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 81
p0 6.804e−15 ± 1.383e−13
pull
Entries 82
Mean −68.37
Std Dev 0
pull1D
Entries 82
Mean 0.008176
Std Dev 1.107

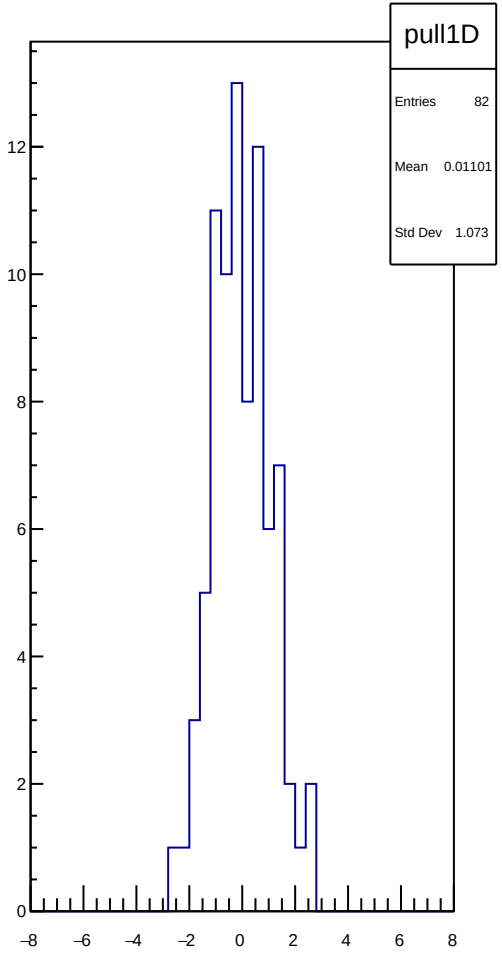

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.985e+05 / 81
p0 8.868e−11 ± 9.777e−14
1.2
1
0.8
0.6
0.4
0.2
0

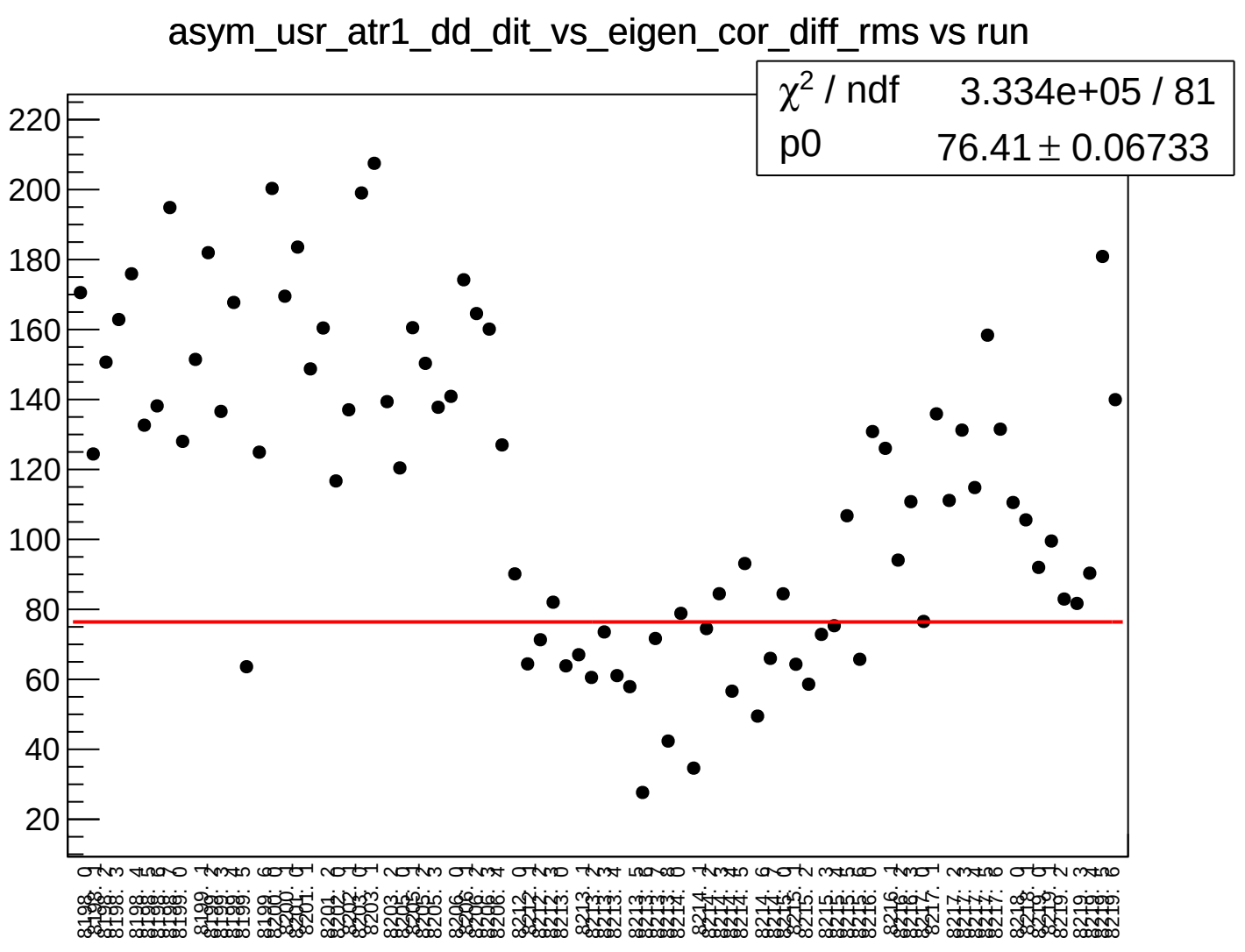

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.49 / 81
p0 0.08513 ± 0.09522
pull
Entries 82
Mean 32.84
Std Dev 59.73

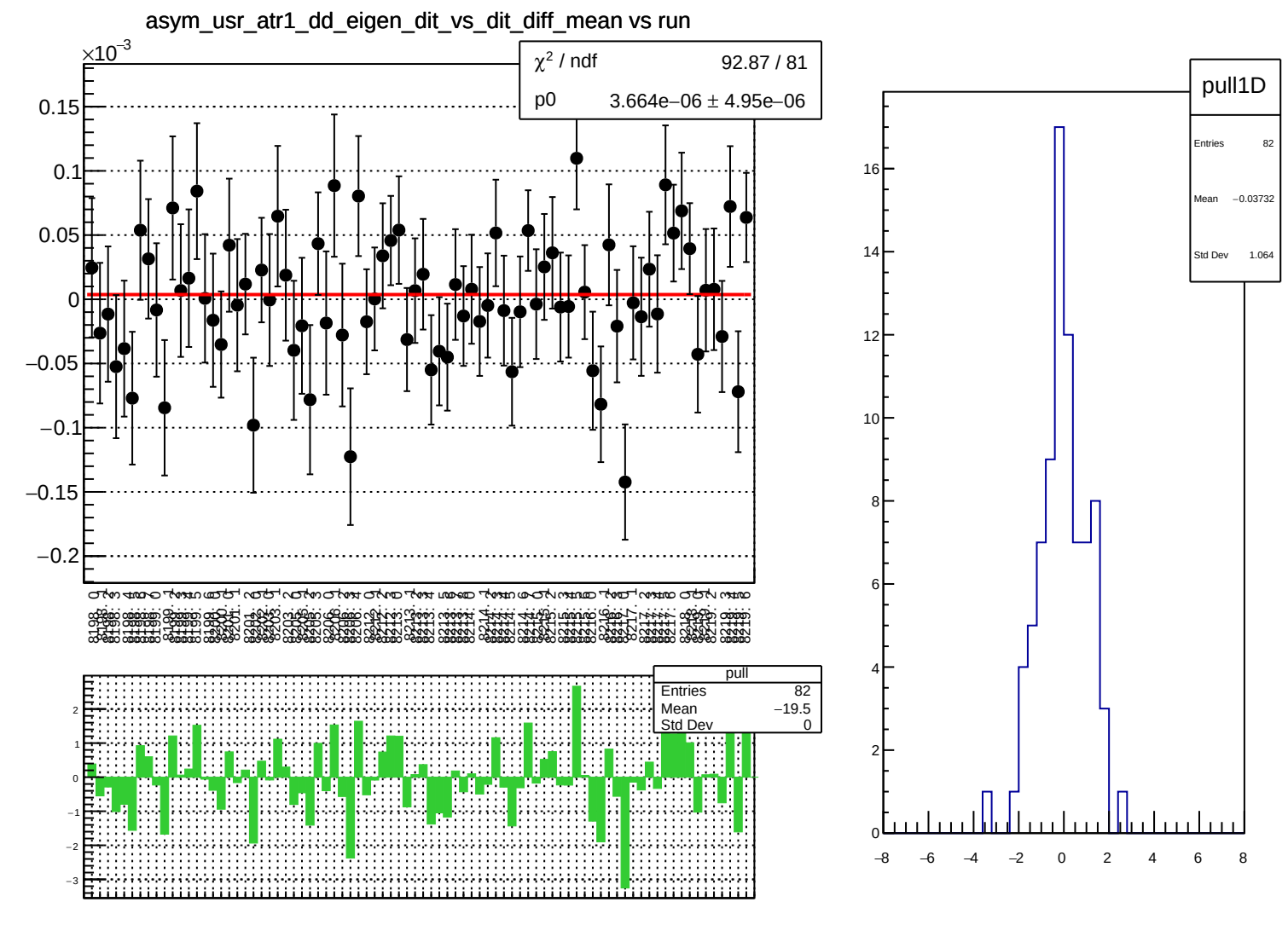

pull1D
Entries 82
Mean 0.01101
Std Dev 1.073

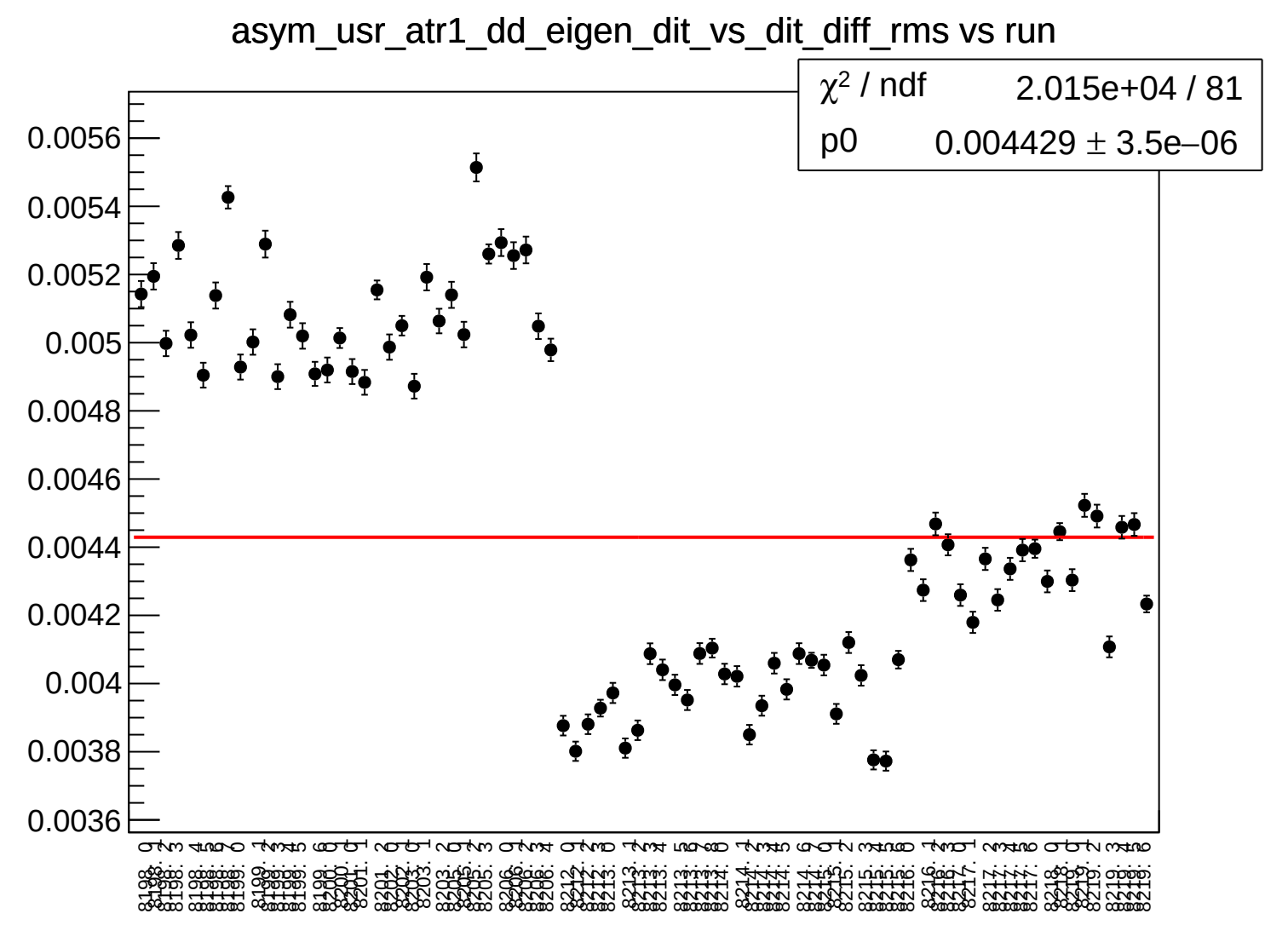

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.334e+05 / 81
p0 76.41 ± 0.06733
220
200
180
160
140
120
100
80
60
40
20

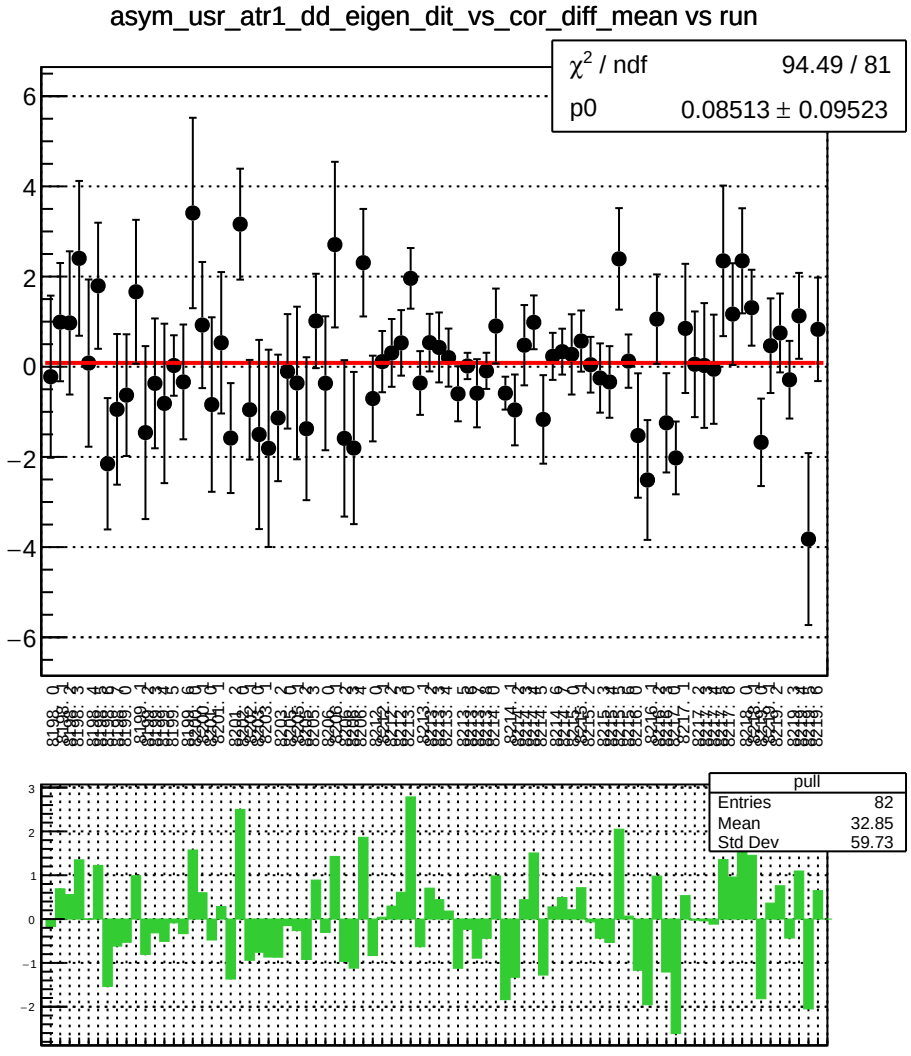

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.49 / 81
p0 0.08513 ± 0.09522
pull
Entries 82
Mean 32.84
Std Dev 59.73

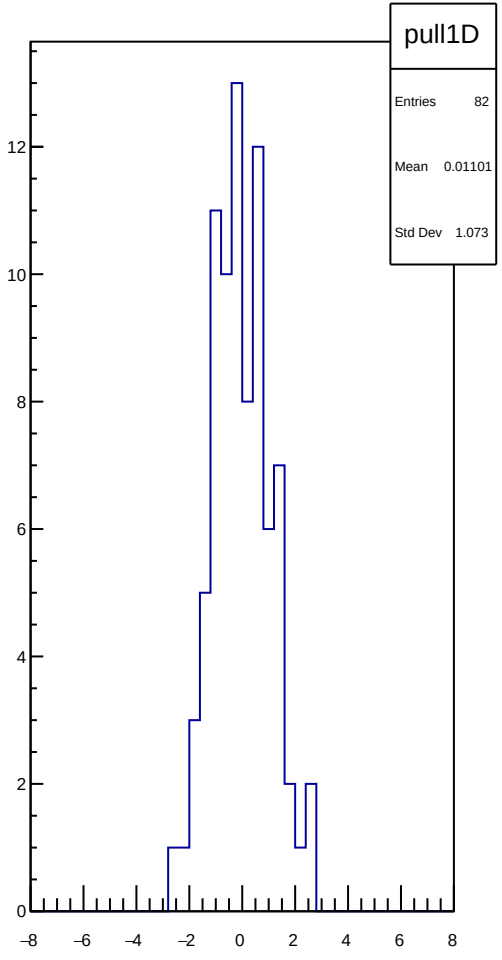

pull1D
Entries 82
Mean 0.01101
Std Dev 1.073

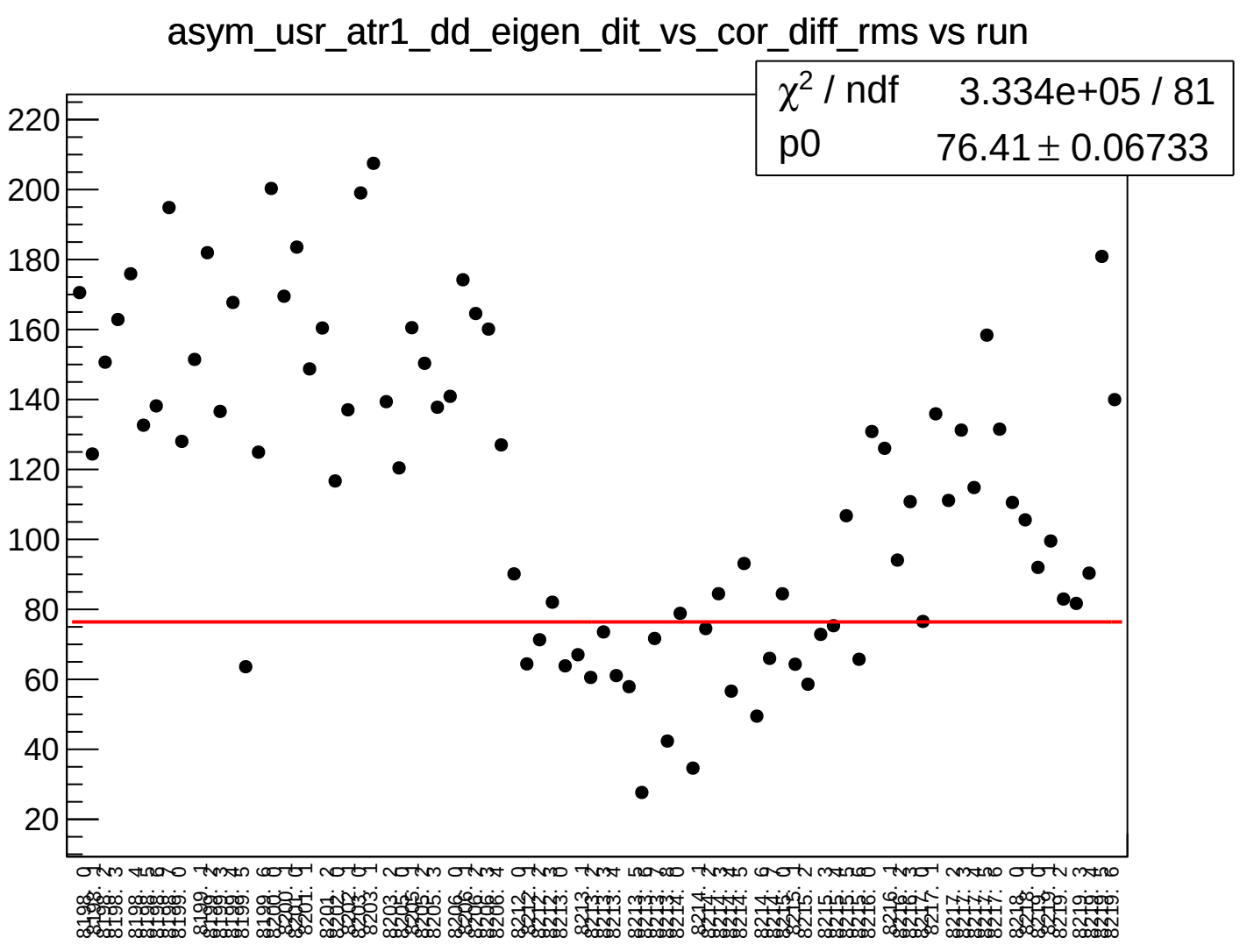

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.334e+05 / 81
p0 76.41 ± 0.06733
220
200
180
160
140
120
100
80
60
40
20

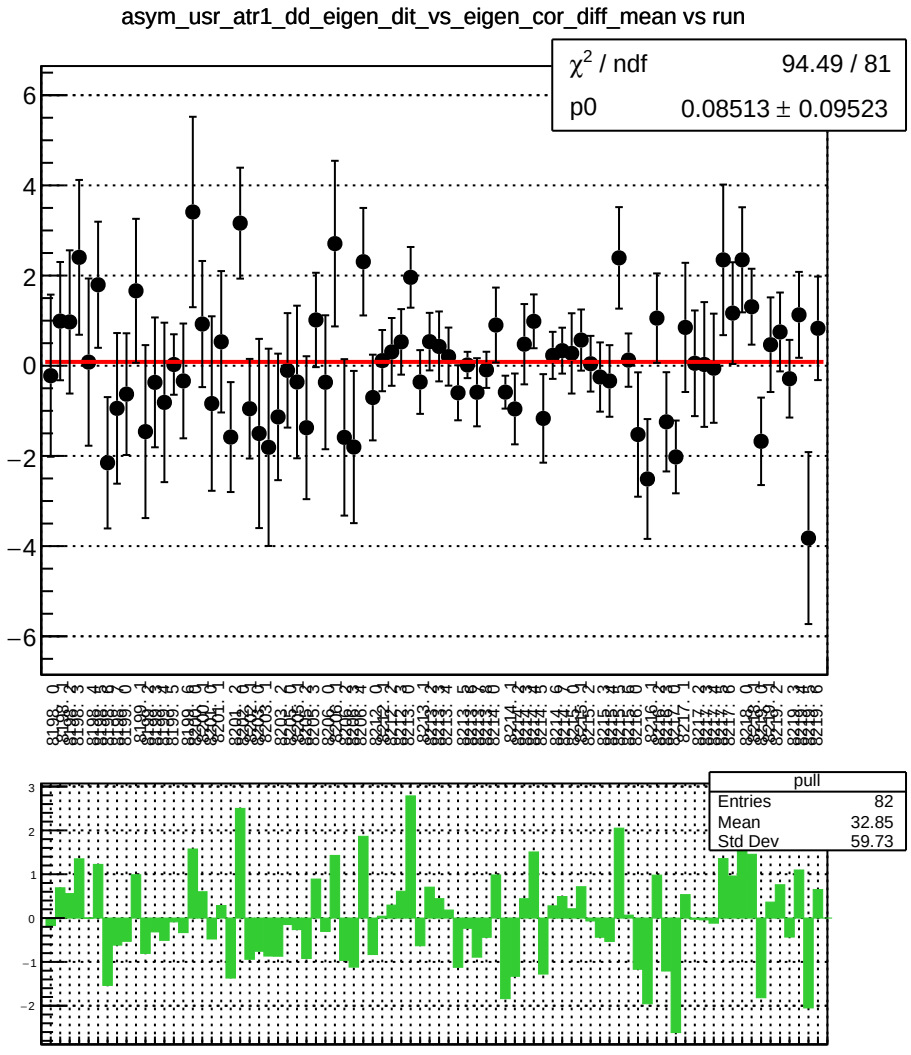

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 92.87 / 81
p0 3.664e−06 ± 4.95e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 82
Mean −19.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.03732
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

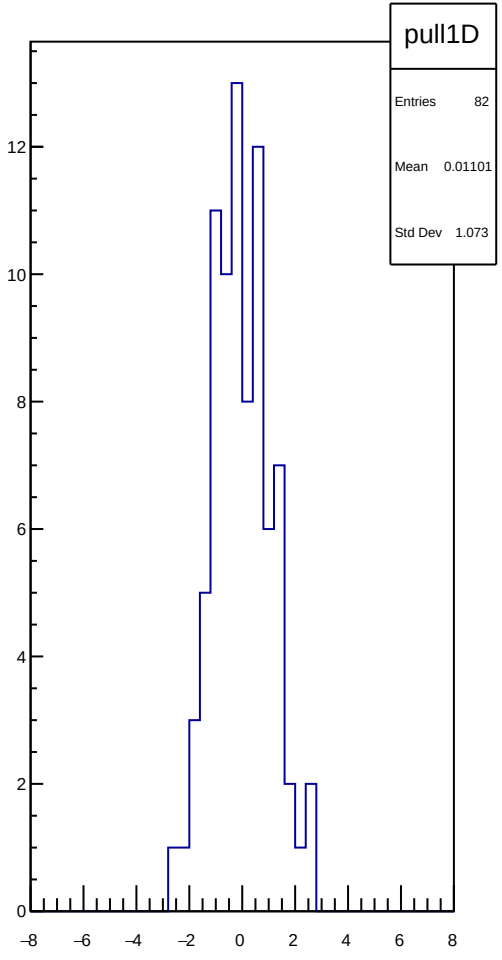

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.015e+04 / 81
p0 0.004429 ± 3.5e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

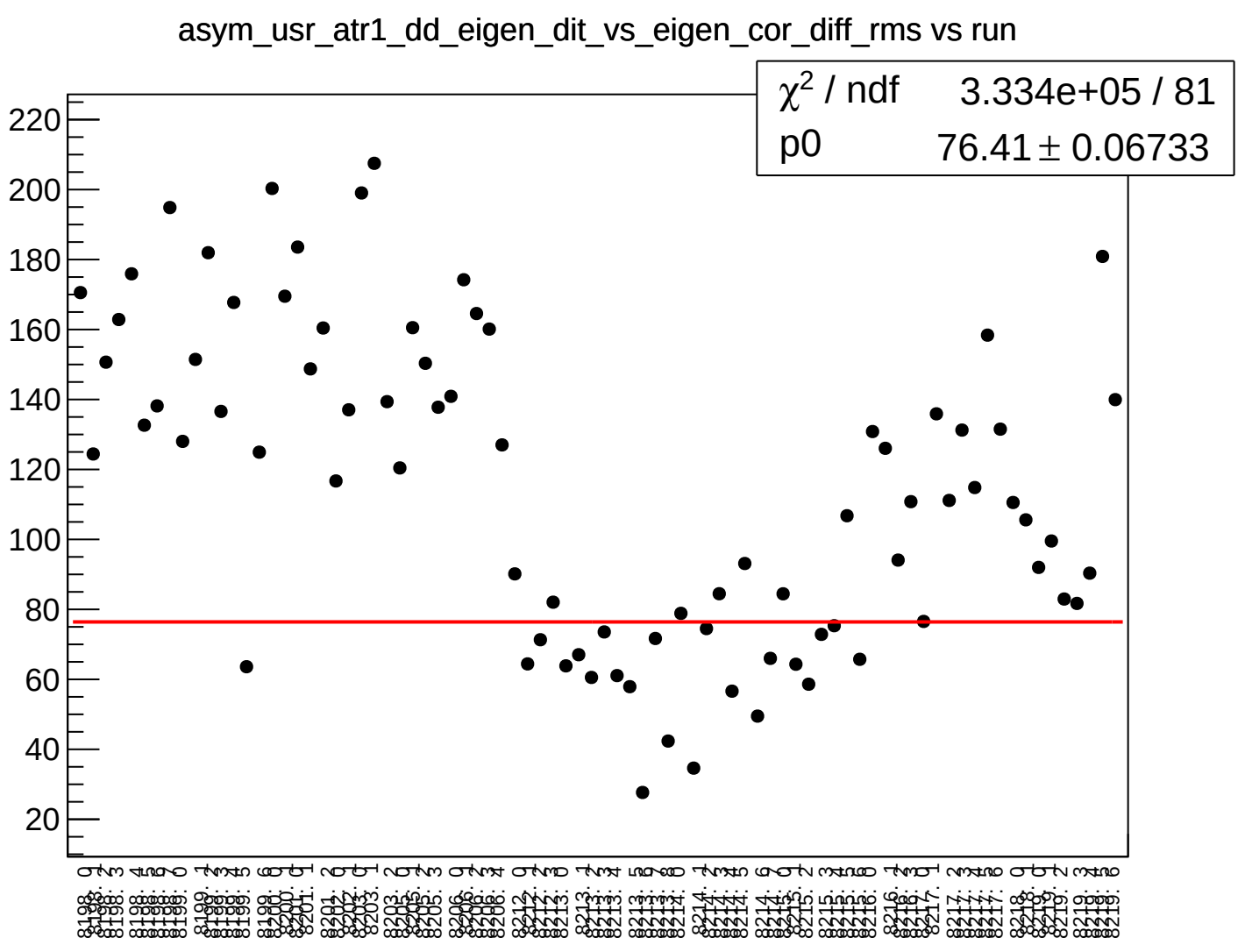

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.49 / 81
p0 0.08513 ± 0.09523
pull
Entries 82
Mean 32.85
Std Dev 59.73


pull1D
Entries 82
Mean 0.01101
Std Dev 1.073


asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.334e+05 / 81
p0 76.41 ± 0.06733
220
200
180
160
140
120
100
80
60
40
20


asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.49 / 81
p0 0.08513 ± 0.09523
pull
Entries 82
Mean 32.85
Std Dev 59.73


pull1D
Entries 82
Mean 0.01101
Std Dev 1.073


asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.334e+05 / 81
p0 76.41 ± 0.06733
220
200
180
160
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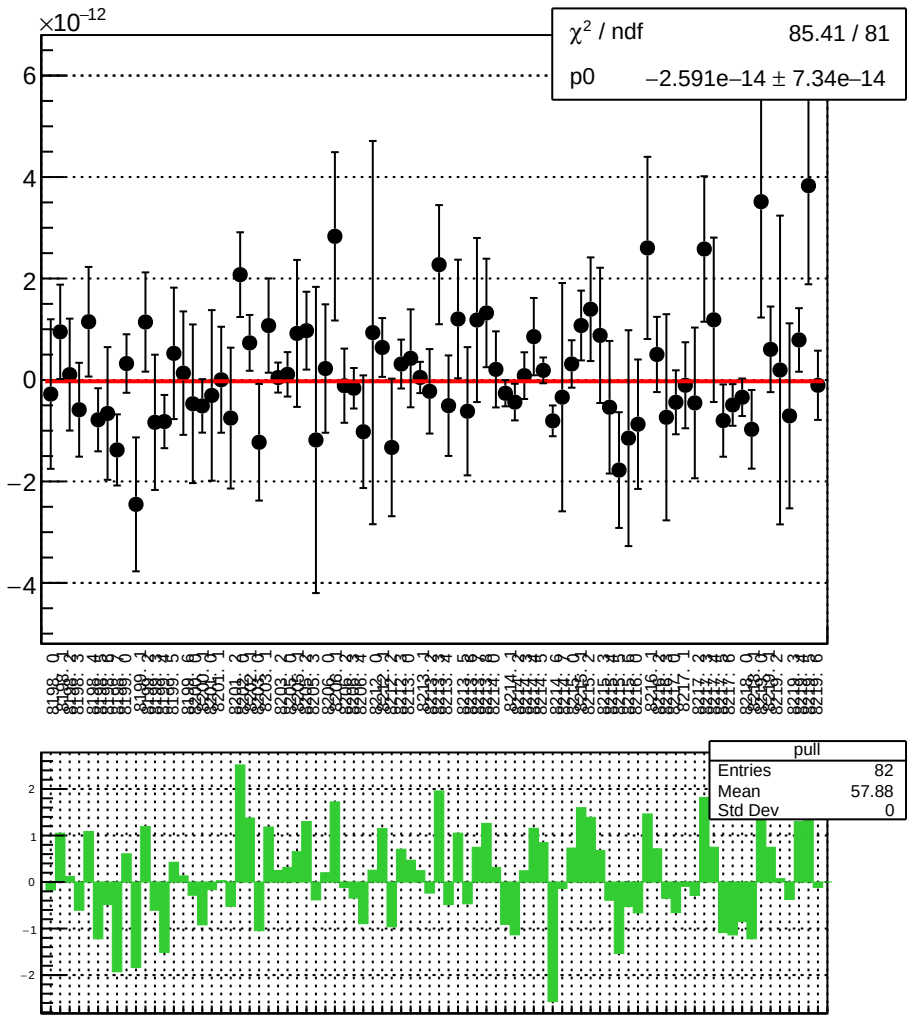
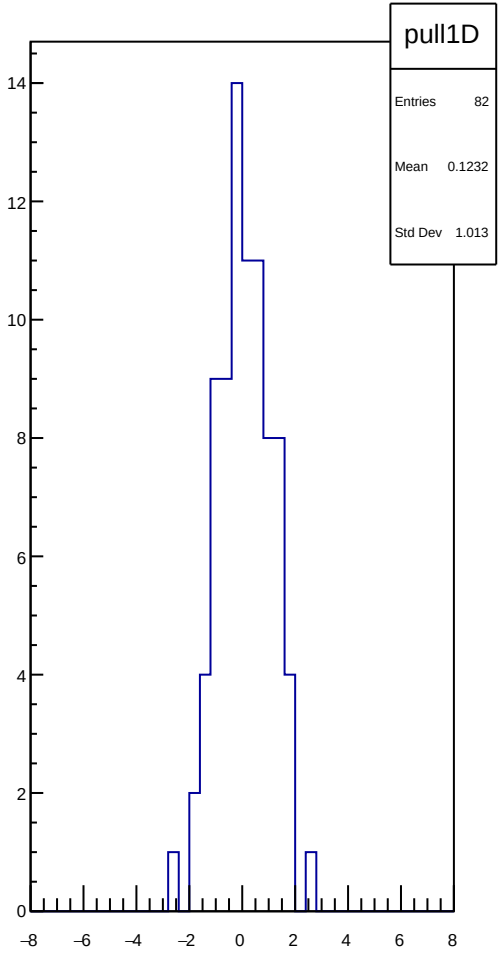
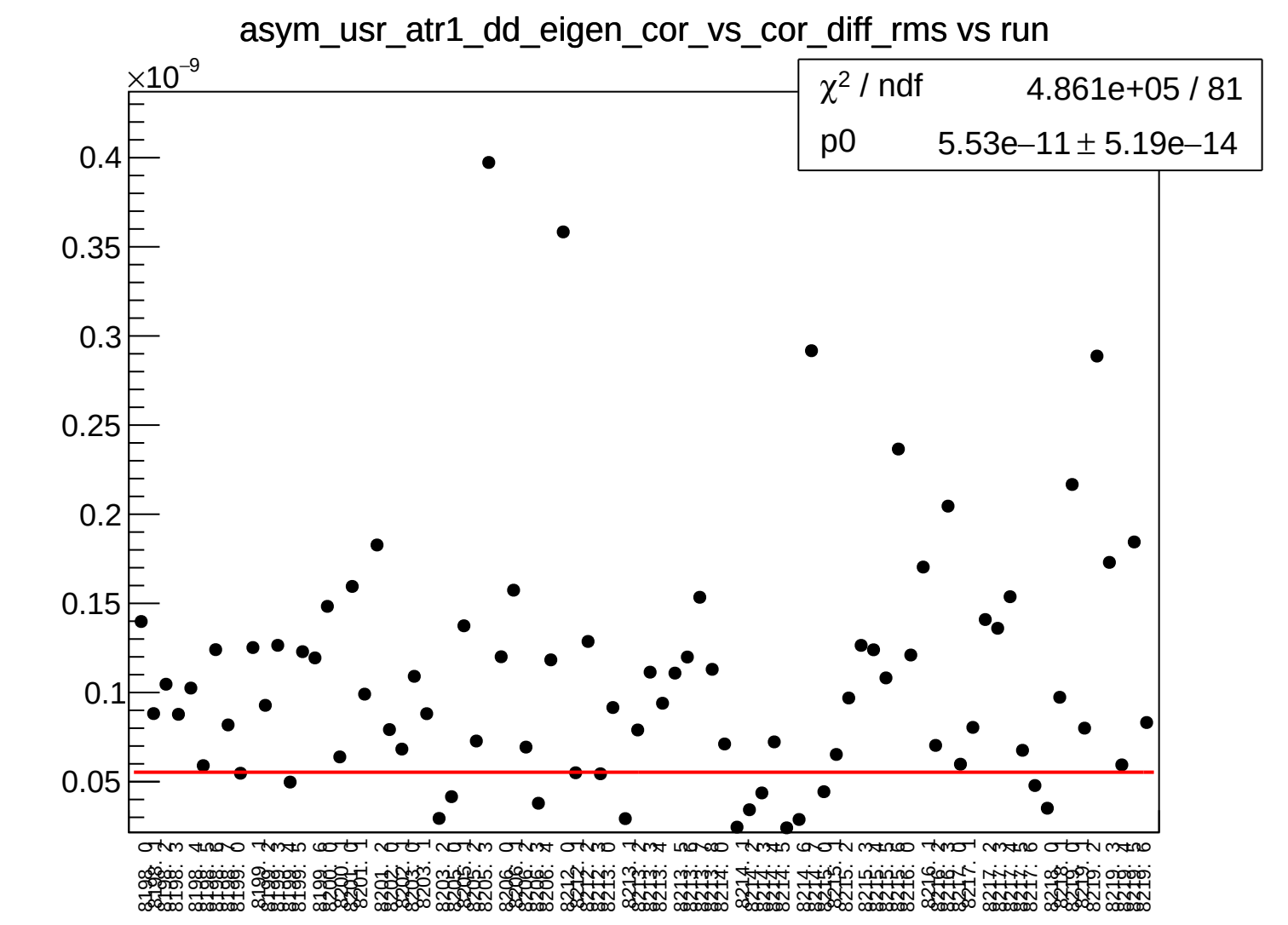
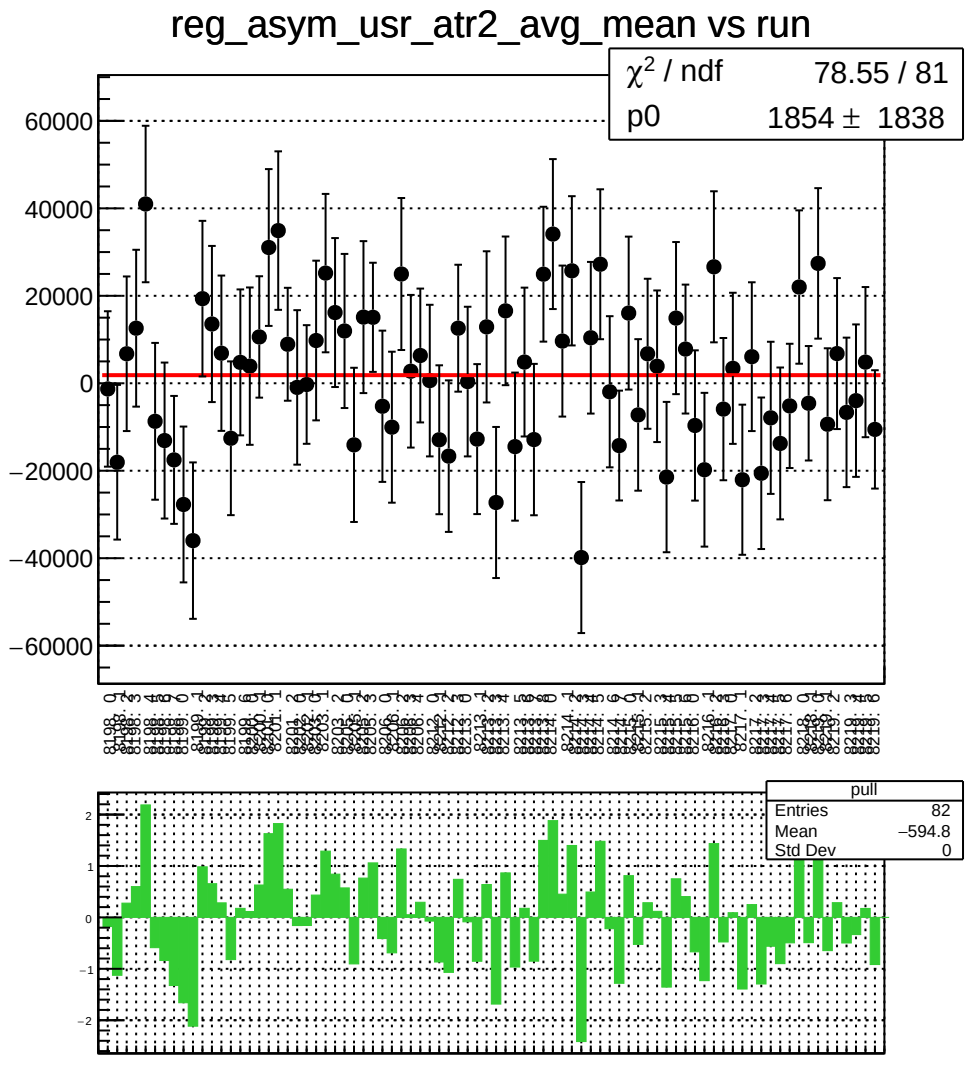
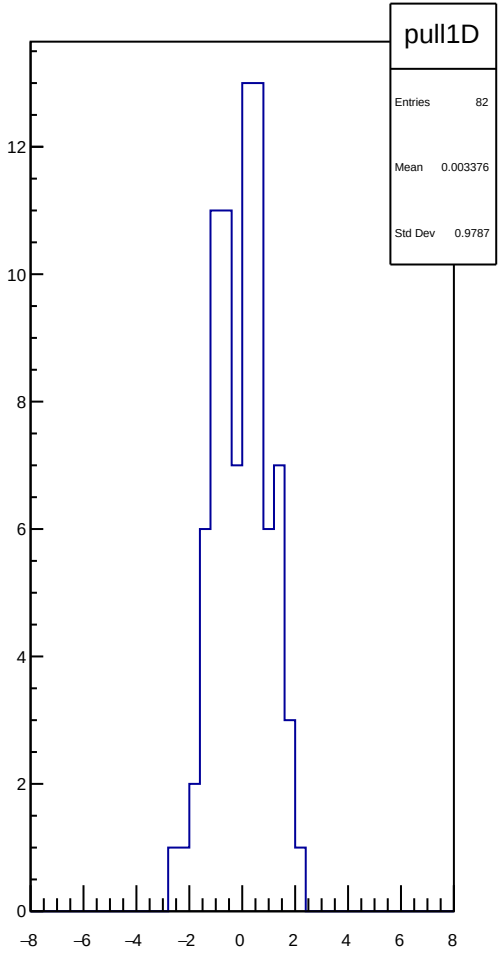
100
80
60
40
20

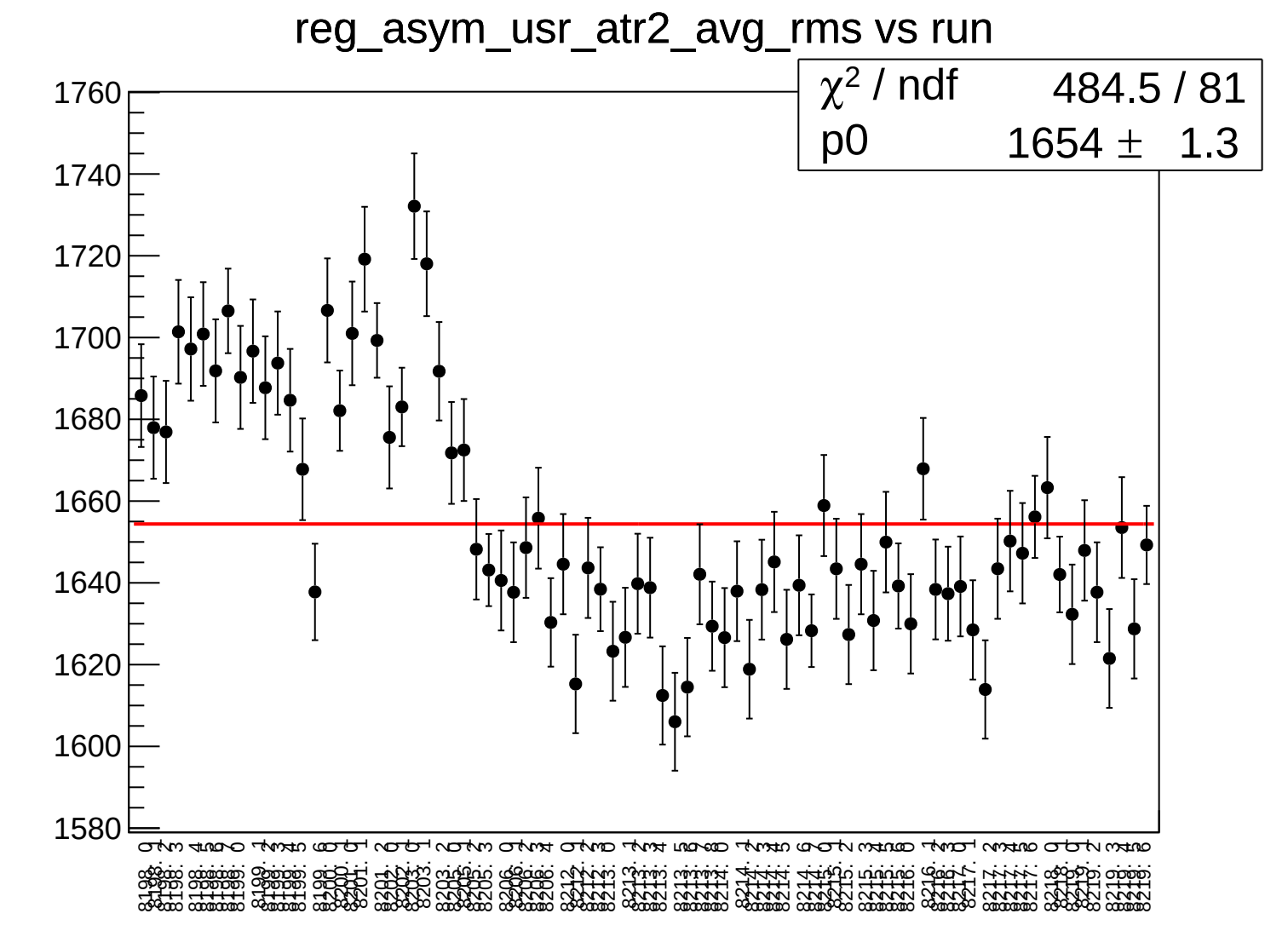

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.41 / 81
p0 −2.591e−14 ± 7.34e−14
pull
Entries 82
Mean 57.88
Std Dev 0

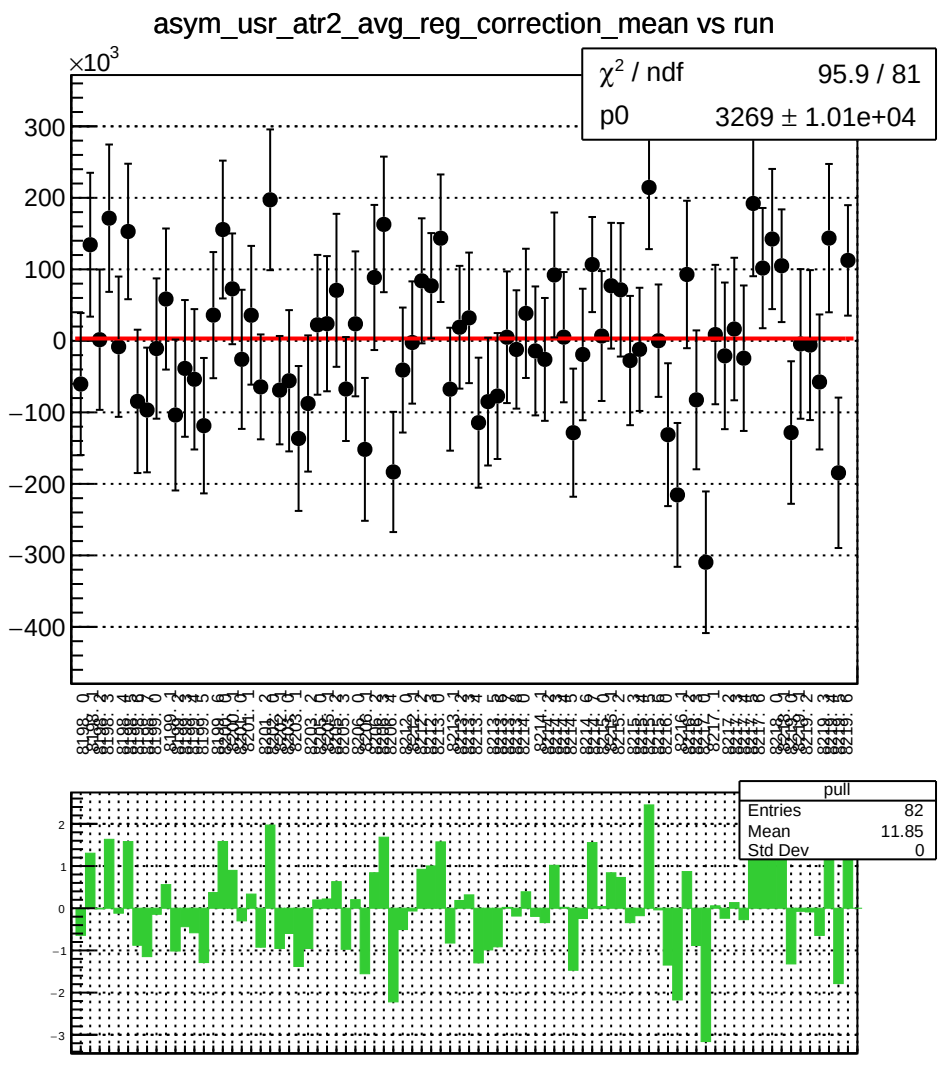

pull1D
Entries 82
Mean 0.1232
Std Dev 1.013

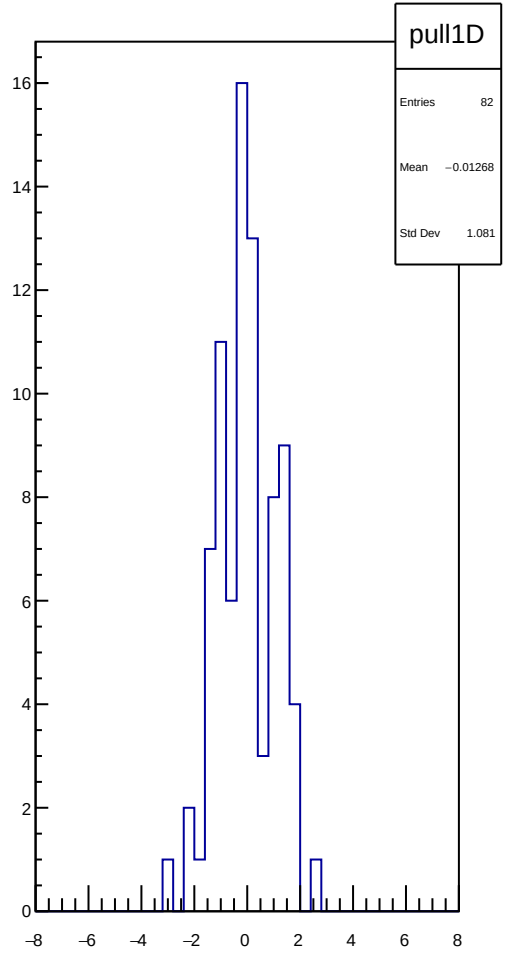

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.861e+05 / 81
p0 5.53e−11 ± 5.19e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

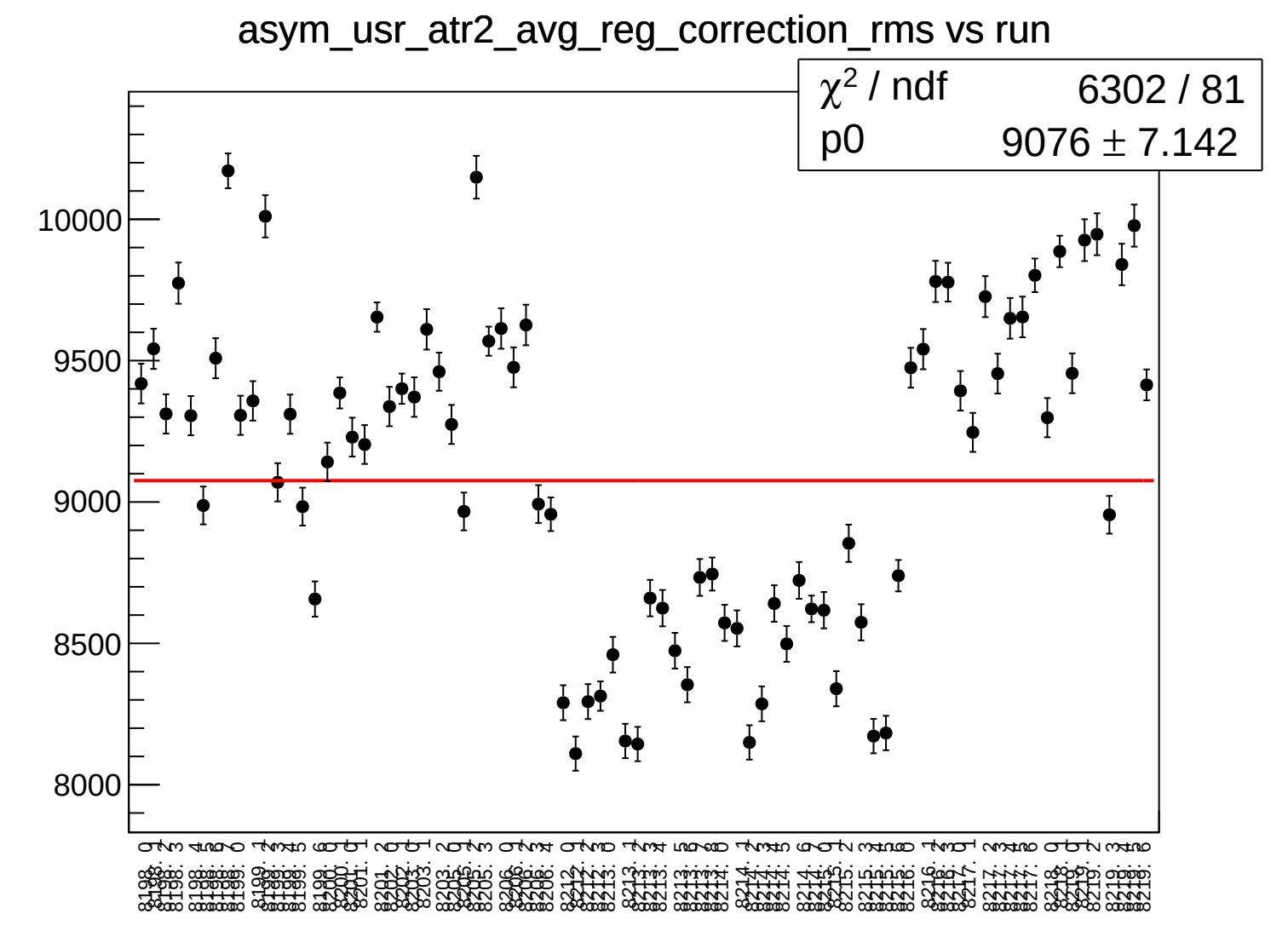

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 78.55 / 81
p0 1854 ± 1838
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −594.8
Std Dev 0
2
1
0
−1
−2

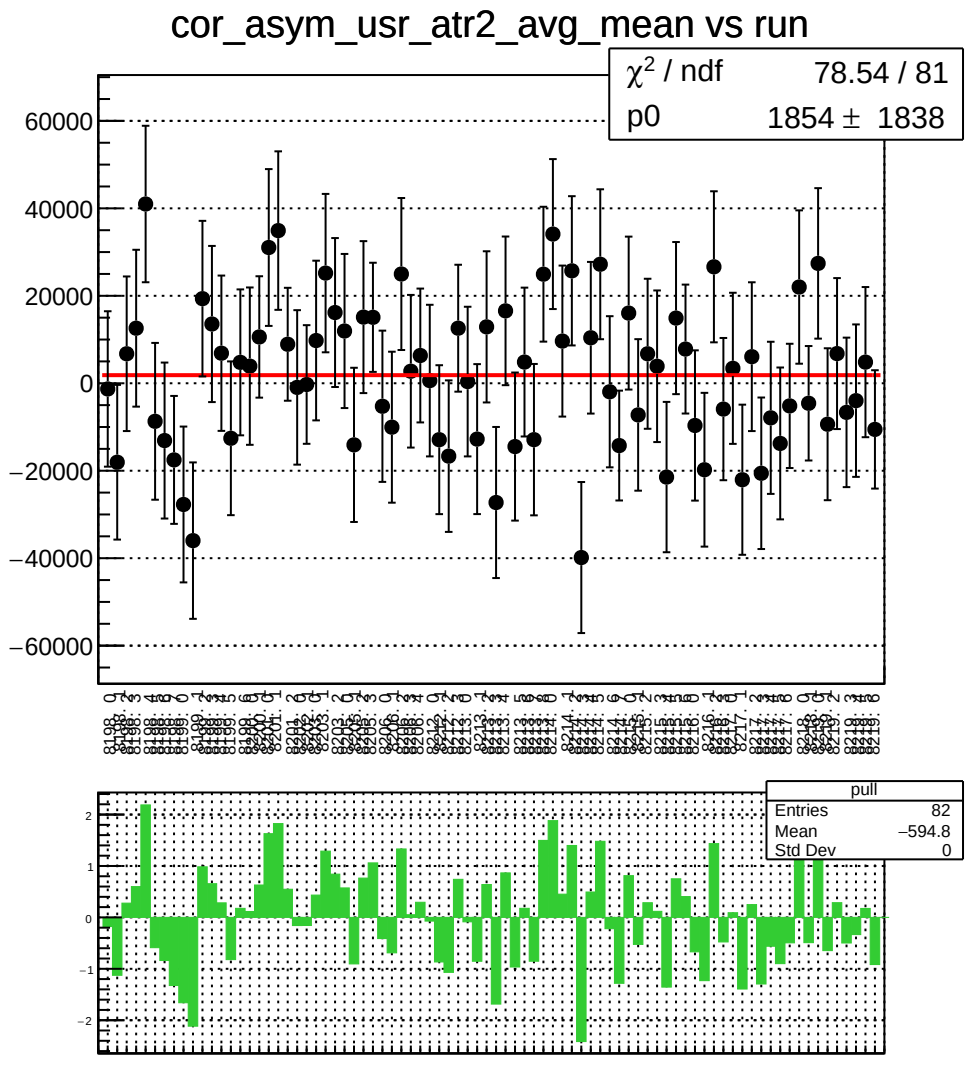

pull1D
Entries 82
Mean 0.003376
Std Dev 0.9787
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

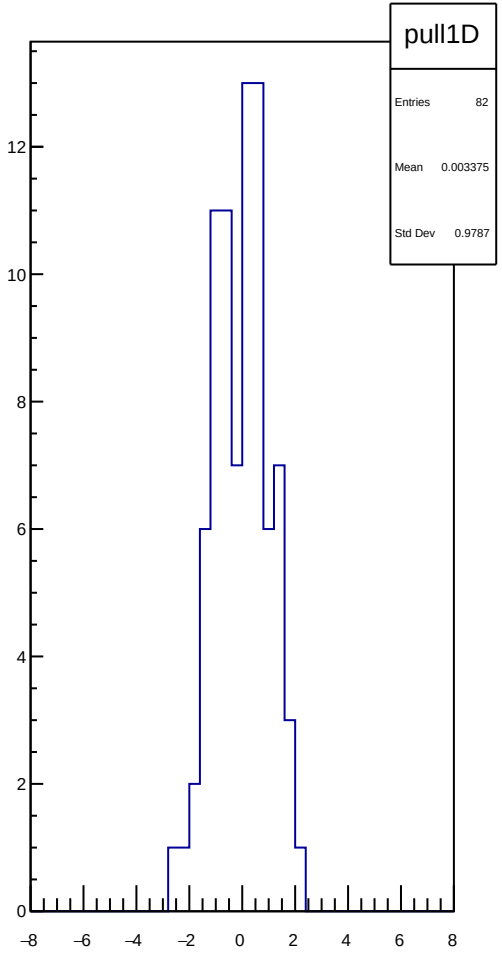

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 484.5 / 81
p0 1654 ± 1.3
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580


asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.9 / 81
p0 3269 ± 1.01e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 82
Mean 11.85
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean −0.01268
Std Dev 1.081
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 6302 / 81
p0 9076 ± 7.142
10000
9500
9000
8500
8000


cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 78.54 / 81
p0 1854 ± 1838
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −594.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 82
Mean 0.003375
Std Dev 0.9787
12
10
8
6
4
2
0
−8
−6
−4
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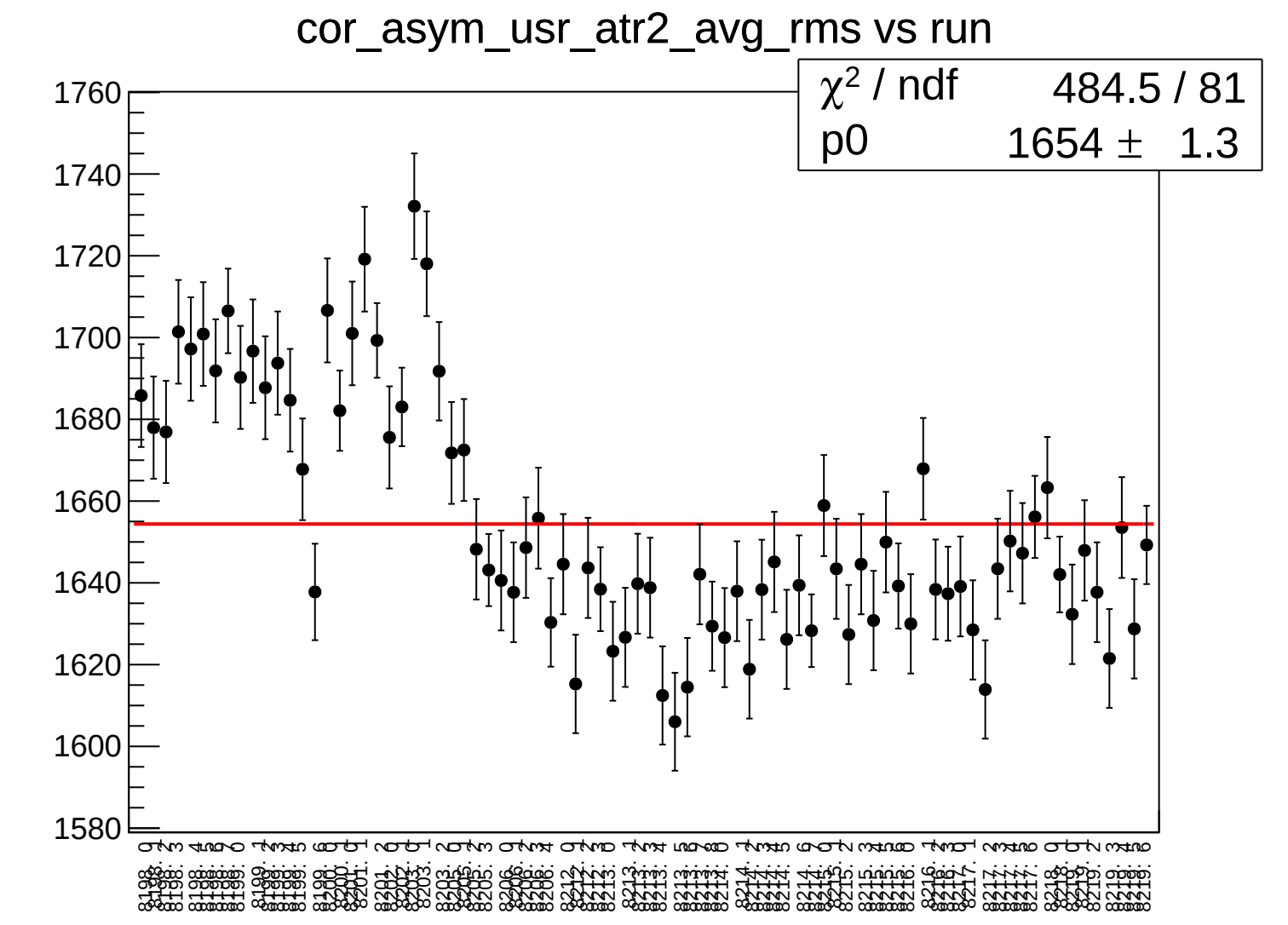
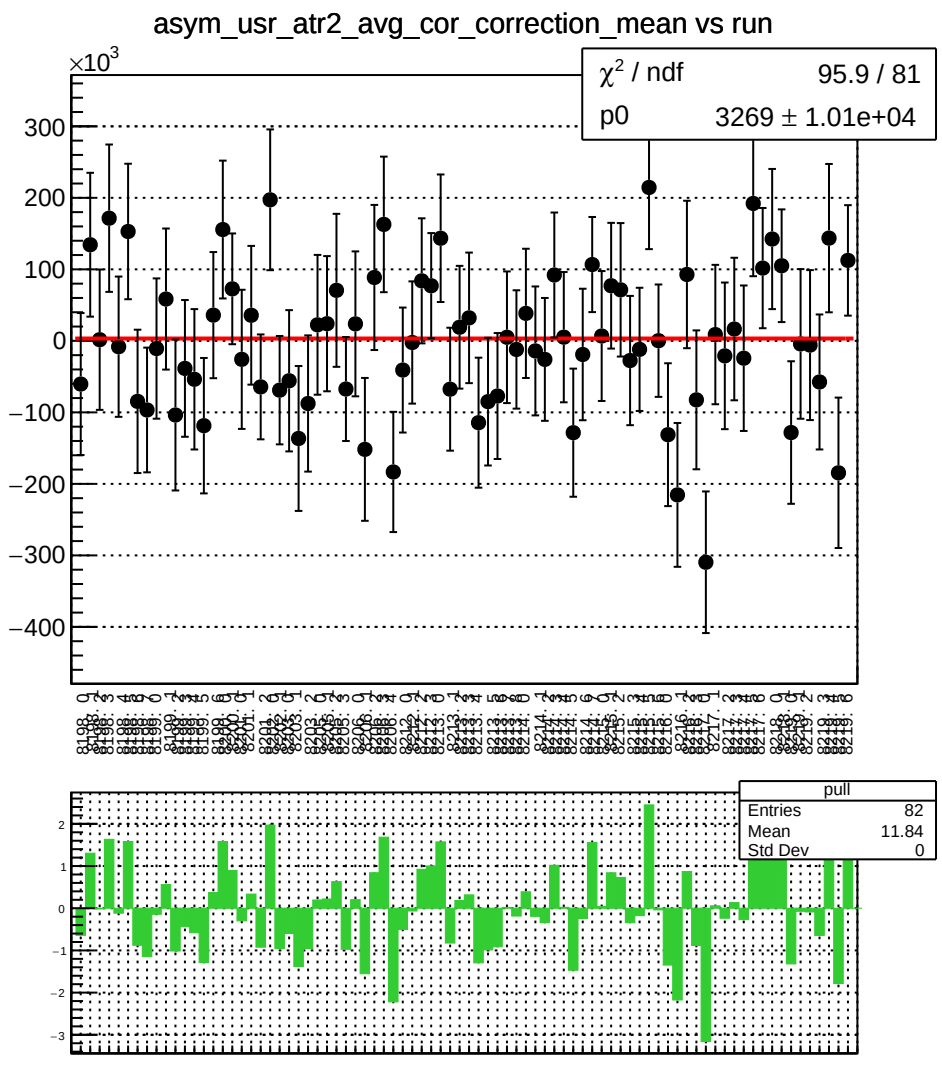
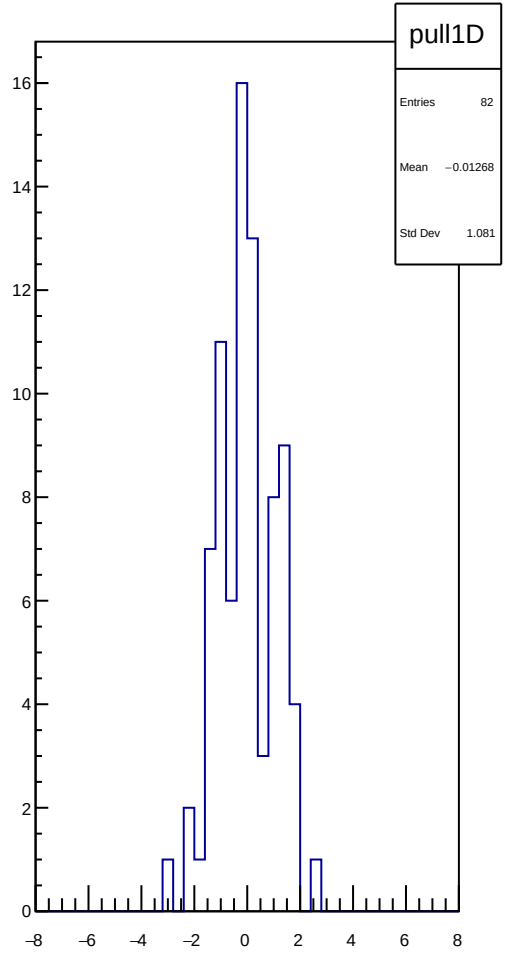
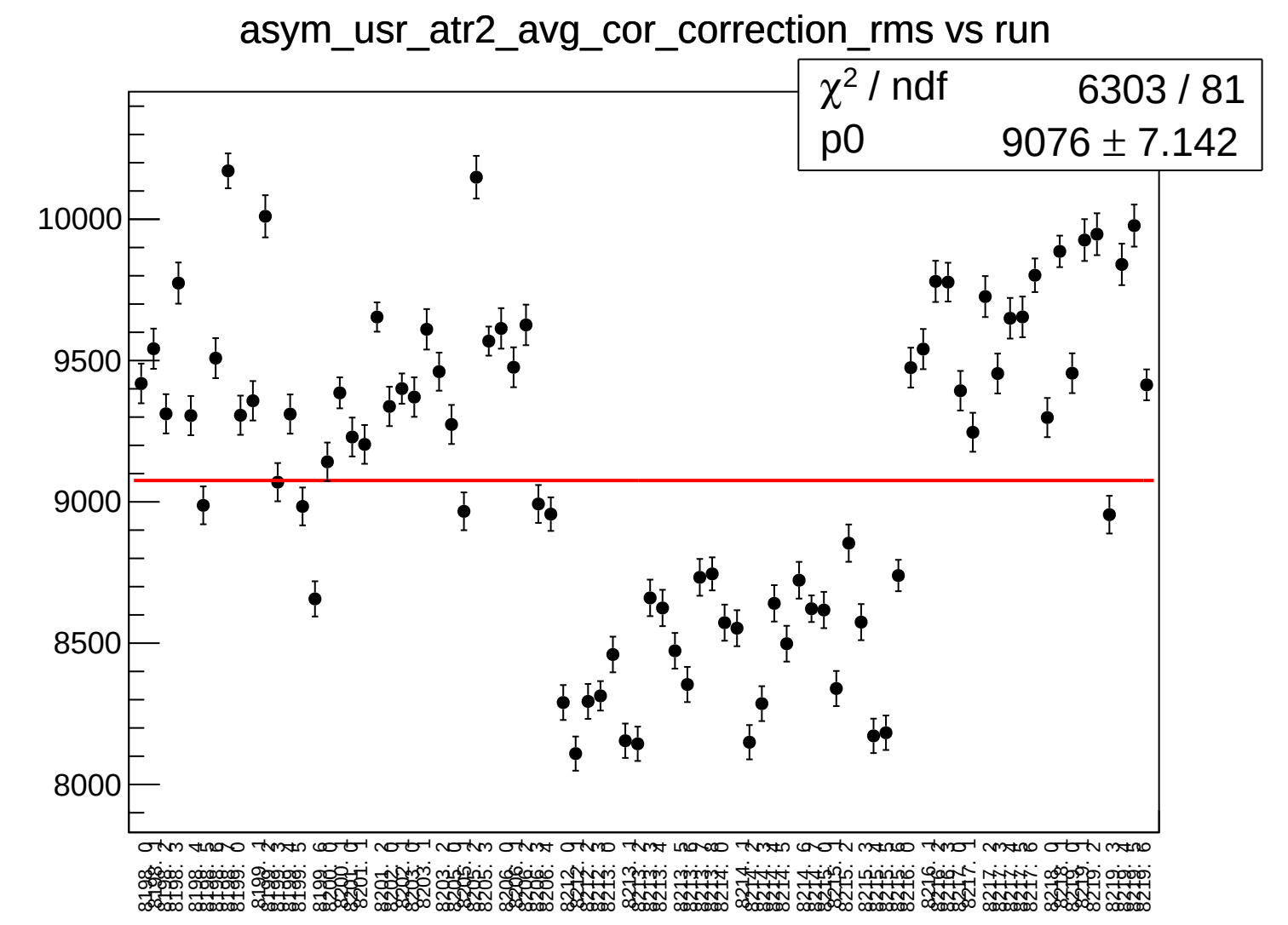
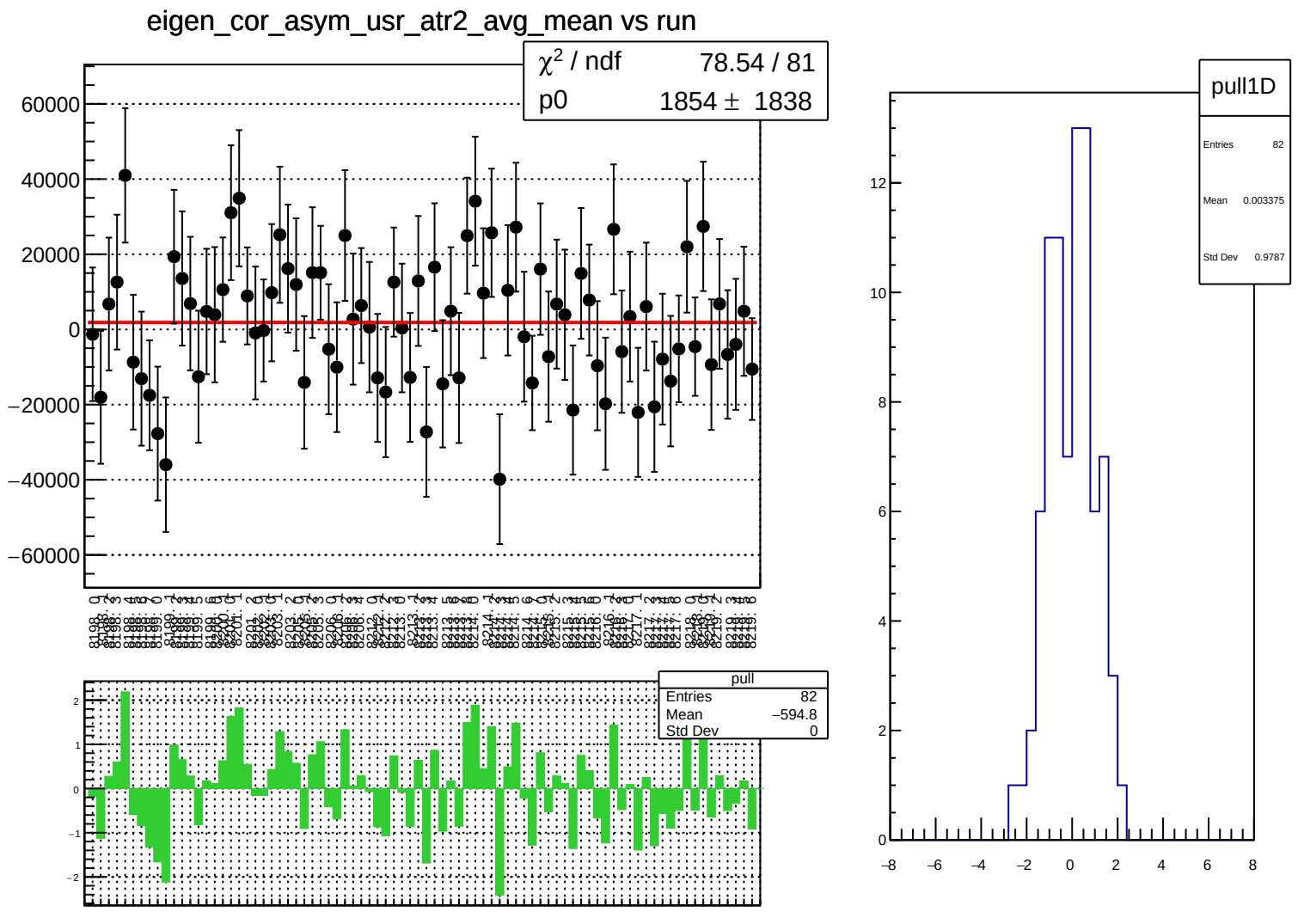
0
2
4
6
8

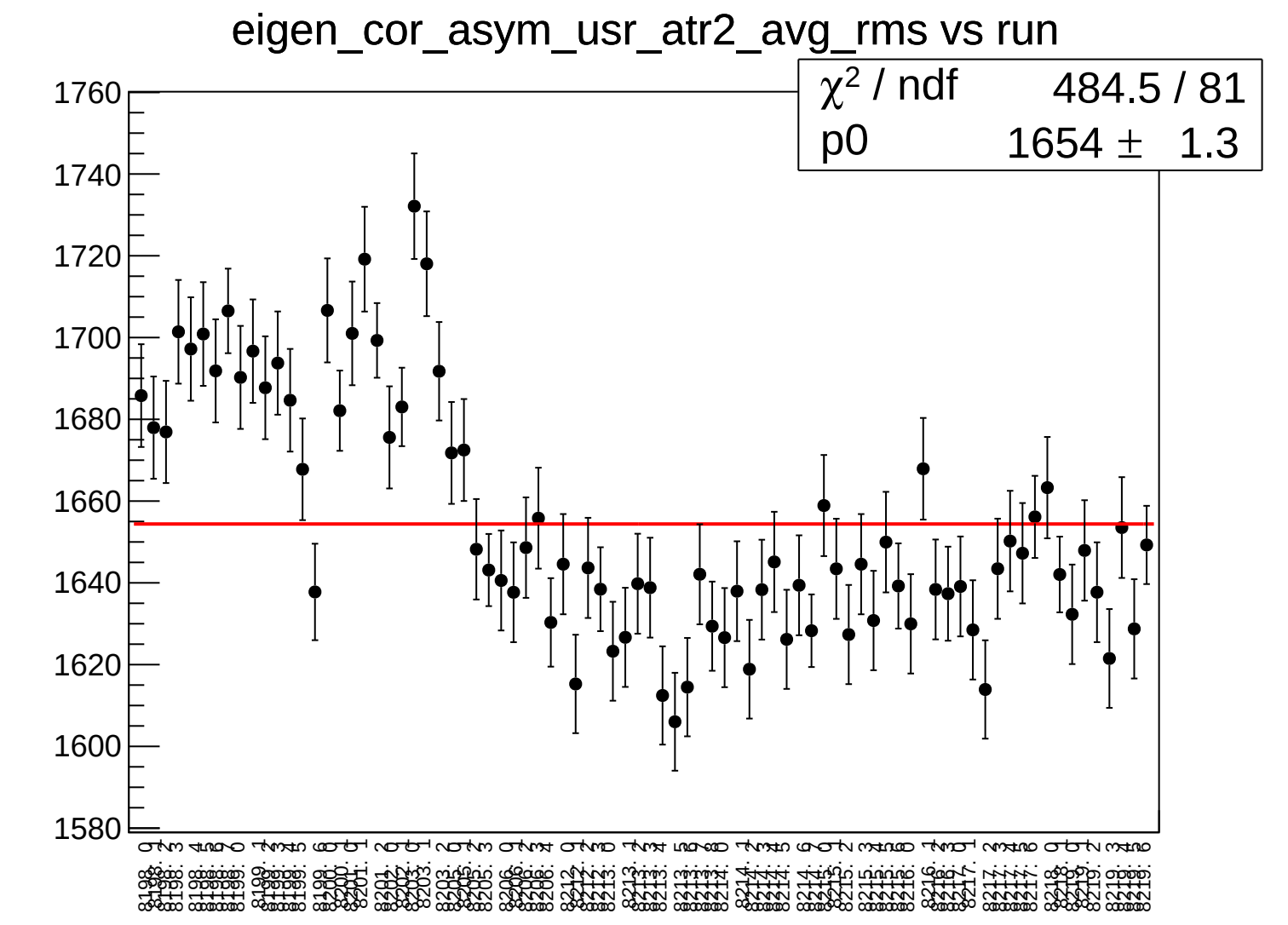

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 484.5 / 81
p0 1654 ± 1.3
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

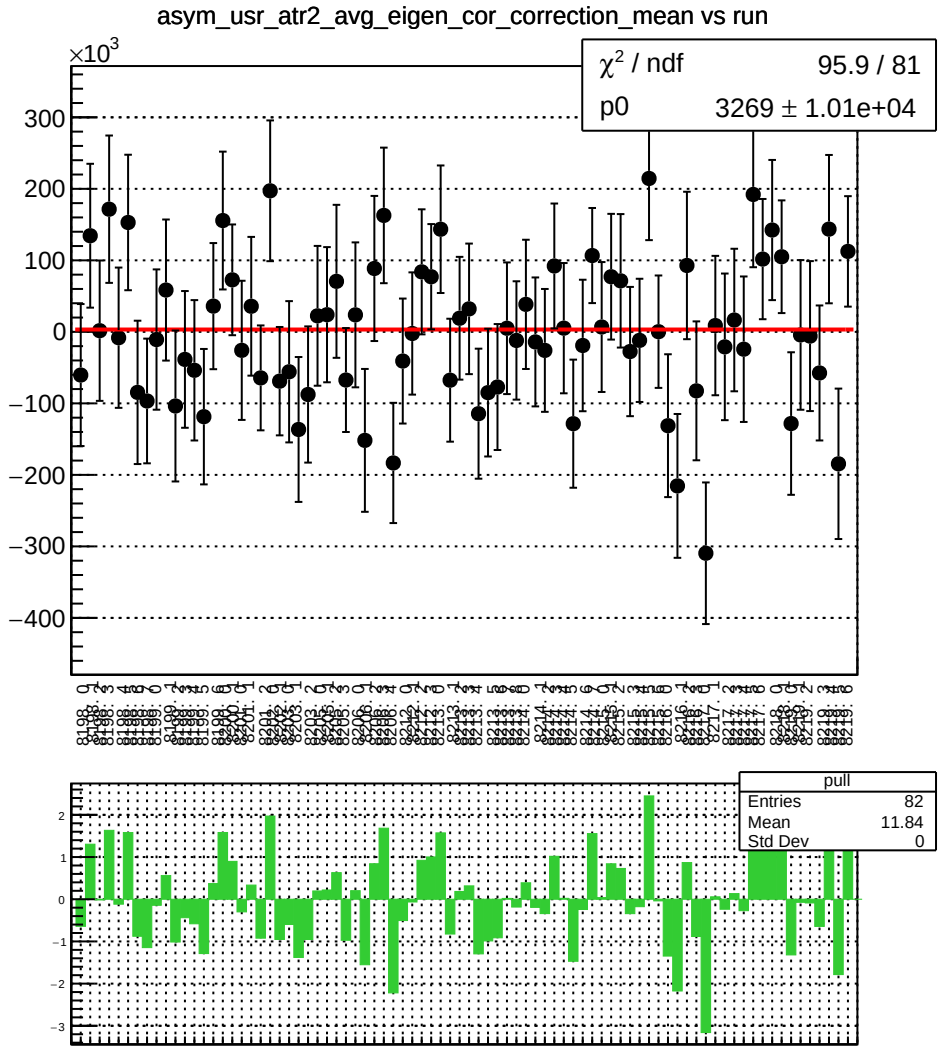

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 95.9 / 81
p0 3269 ± 1.01e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 82
Mean 11.84
Std Dev 0
2
1
0
−1
−2
−3

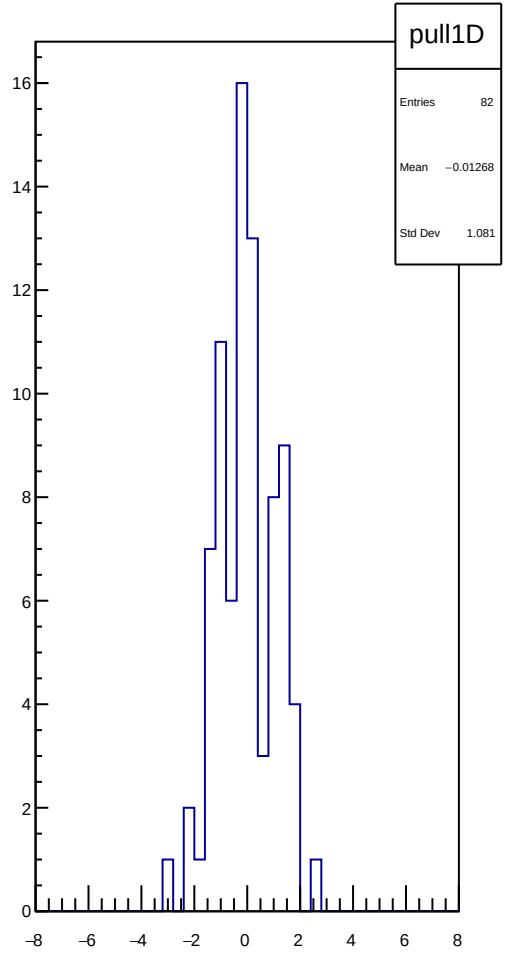

pull1D
Entries 82
Mean −0.01268
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

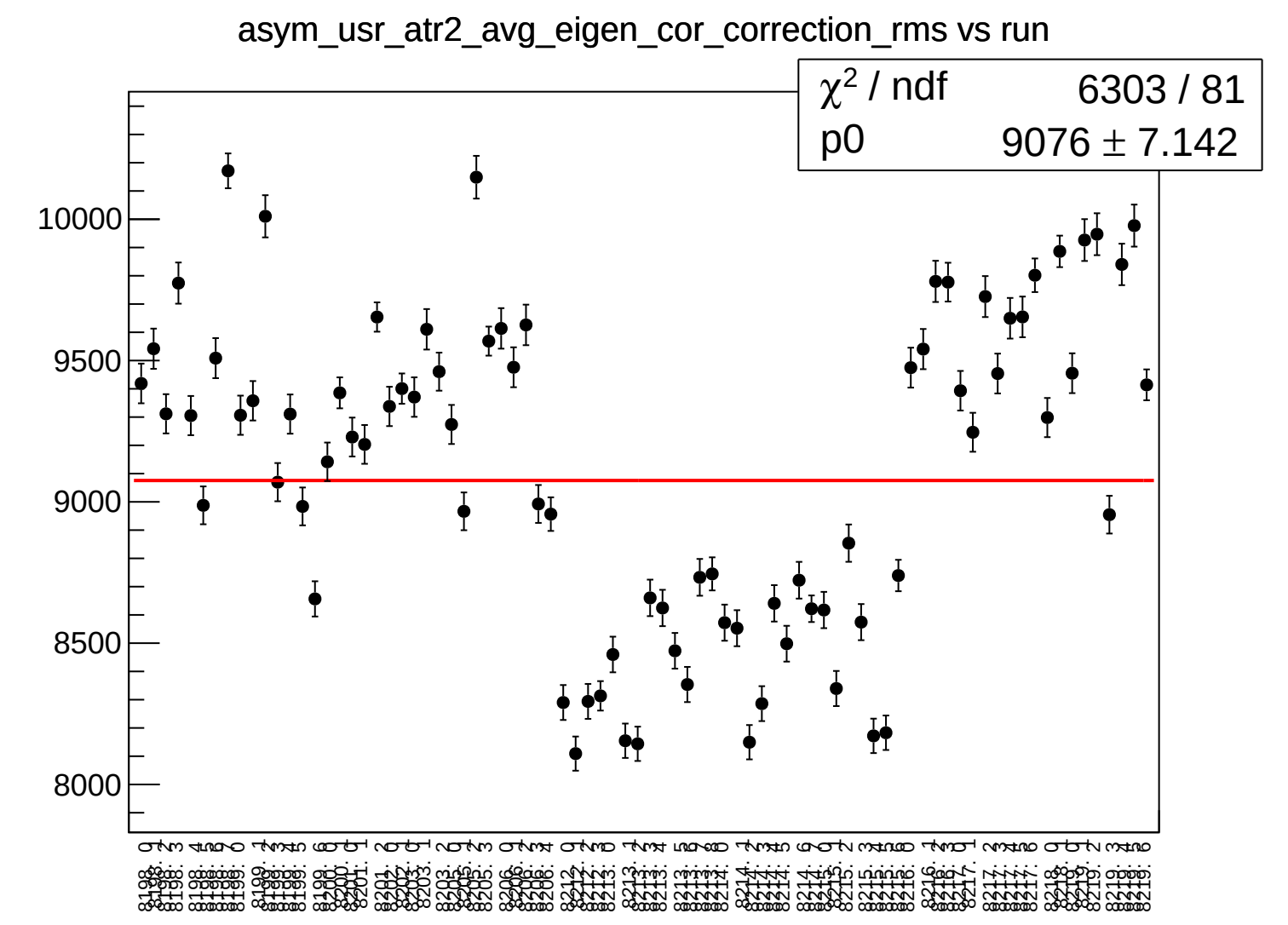

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 6303 / 81
p0 9076 ± 7.142
10000
9500
9000
8500
8000

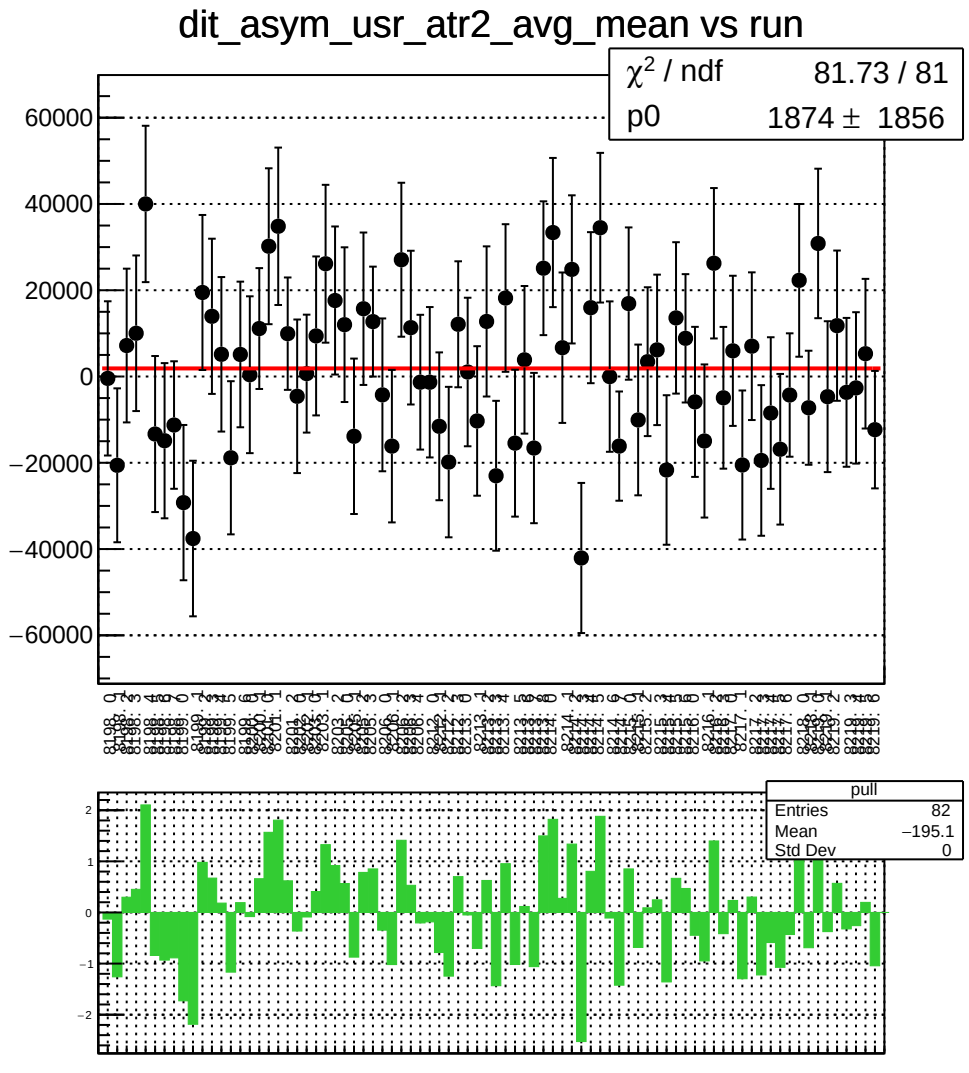

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 78.54 / 81
p0 1854 ± 1838
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −594.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.003375
Std Dev 0.9787
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

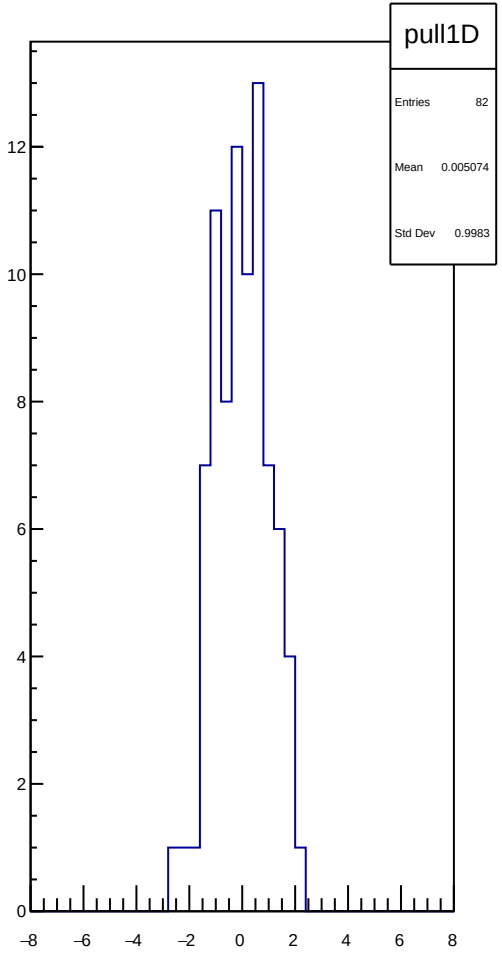

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 484.5 / 81
p0 1654 ± 1.3
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

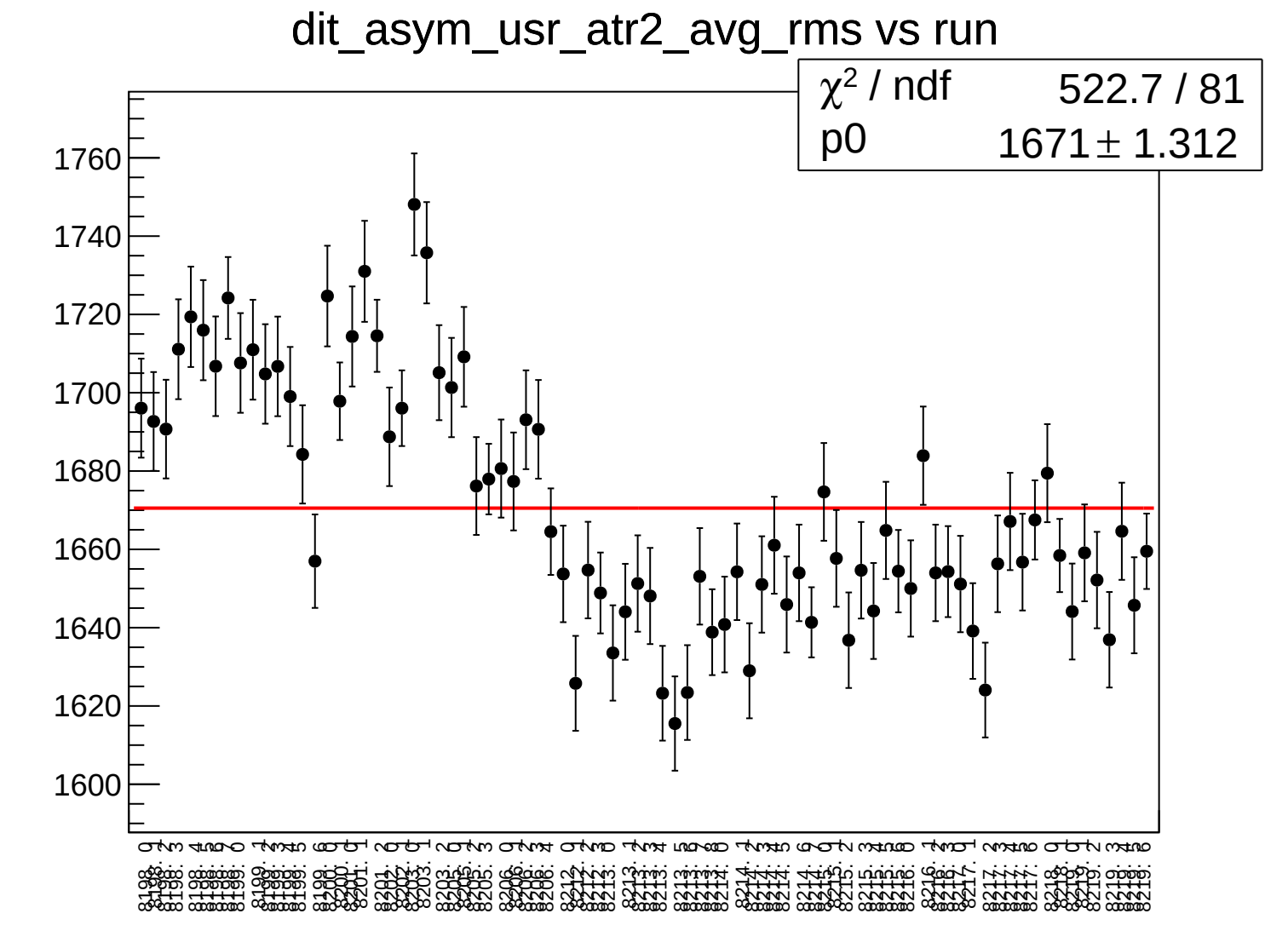

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.9 / 81
p0 3269 ± 1.01e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 82
Mean 11.84
Std Dev 0
2
1
0
−1
−2
−3

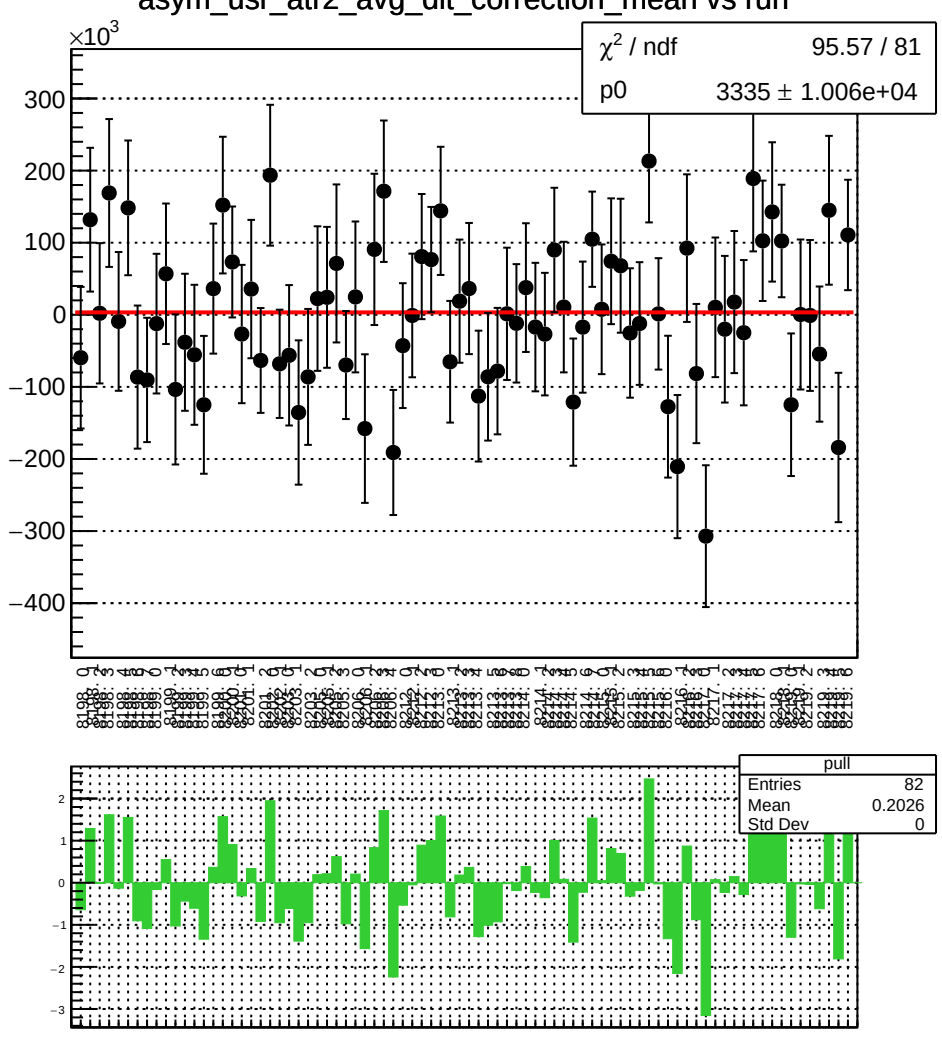

pull1D
Entries 82
Mean −0.01268
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

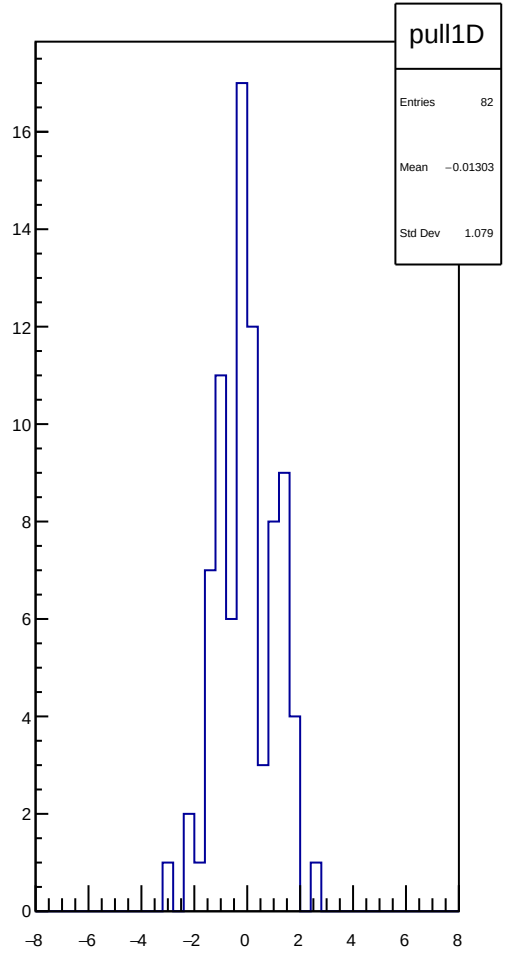

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6303 / 81
p0 9076 ± 7.142
10000
9500
9000
8500
8000

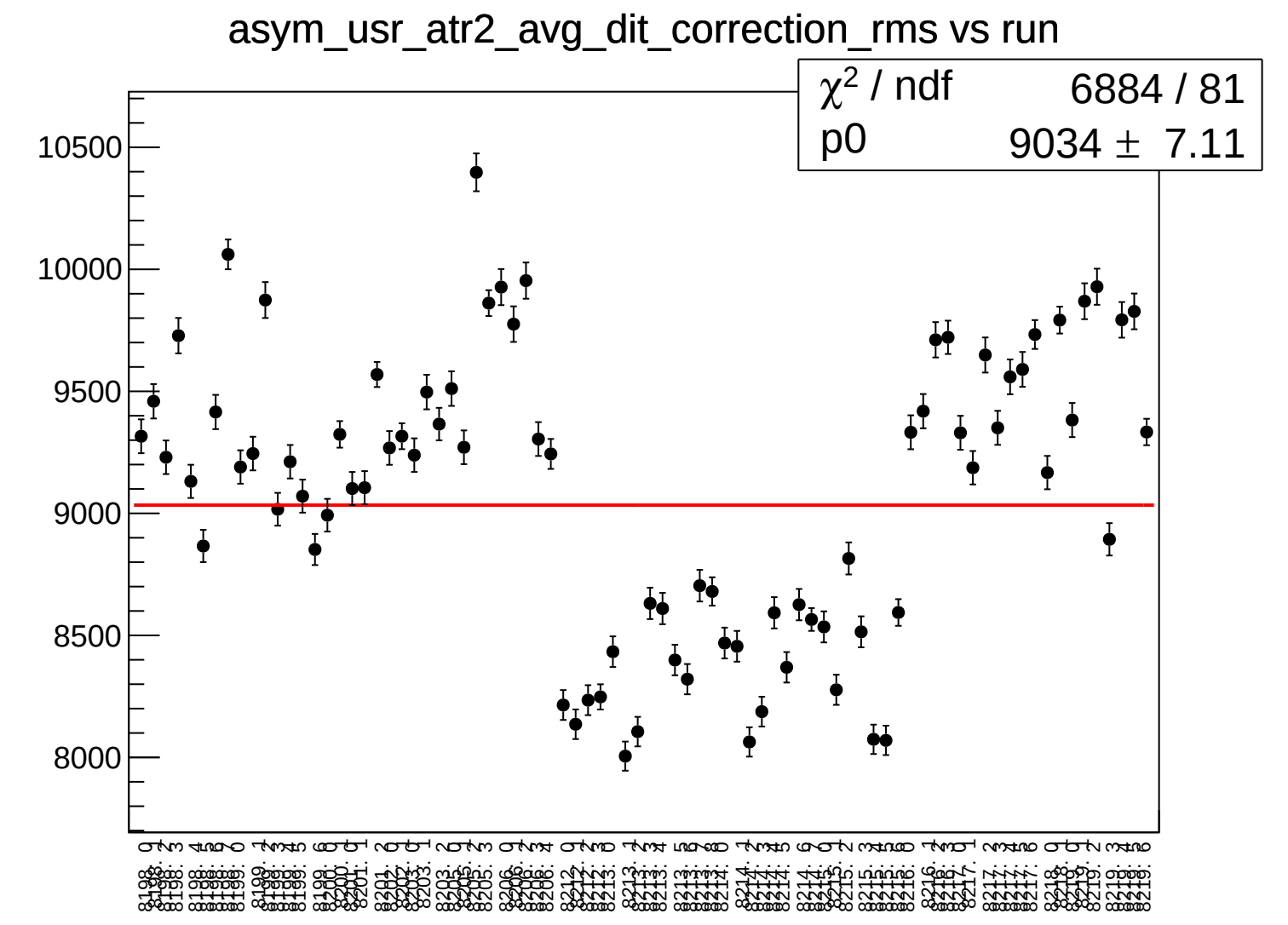

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 81.73 / 81
p0 1874 ± 1856
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −195.1
Std Dev 0
2
1
0
−1
−2

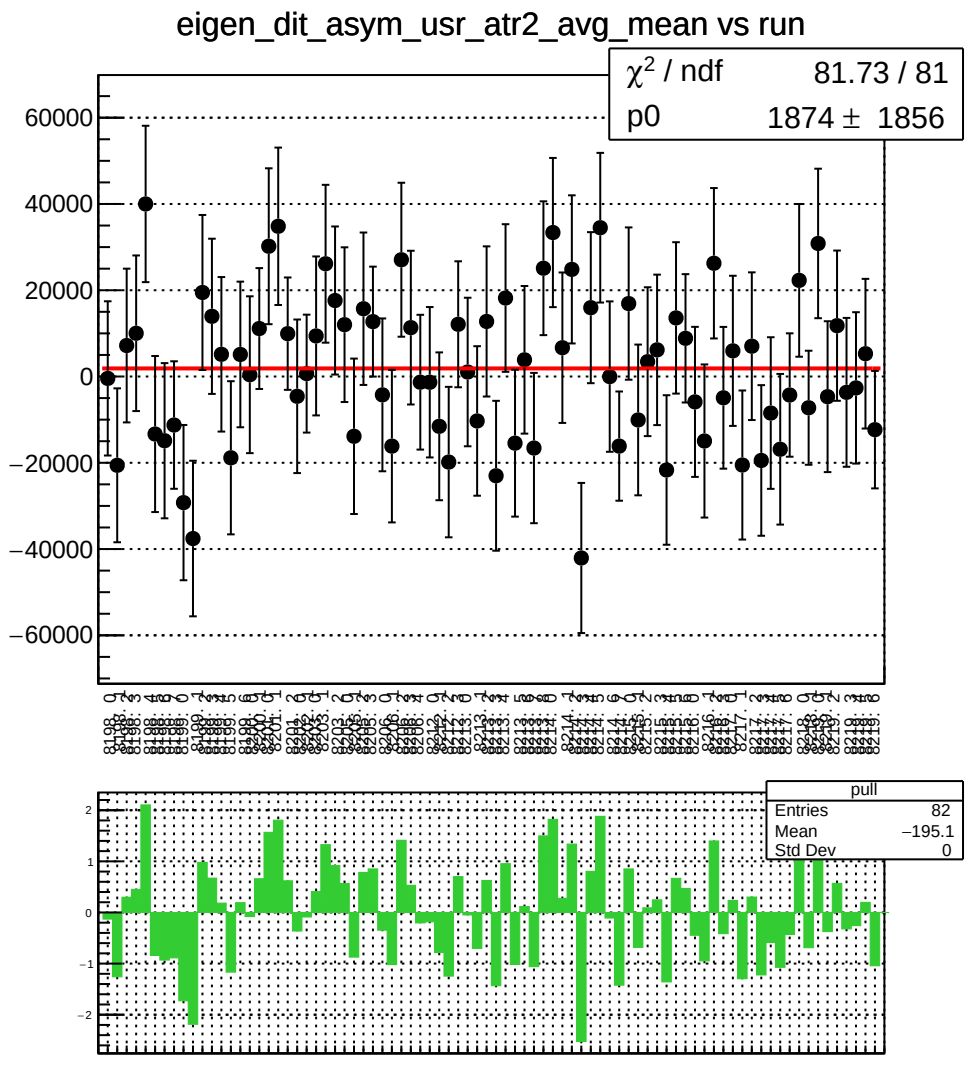

pull1D
Entries 82
Mean 0.005074
Std Dev 0.9983
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

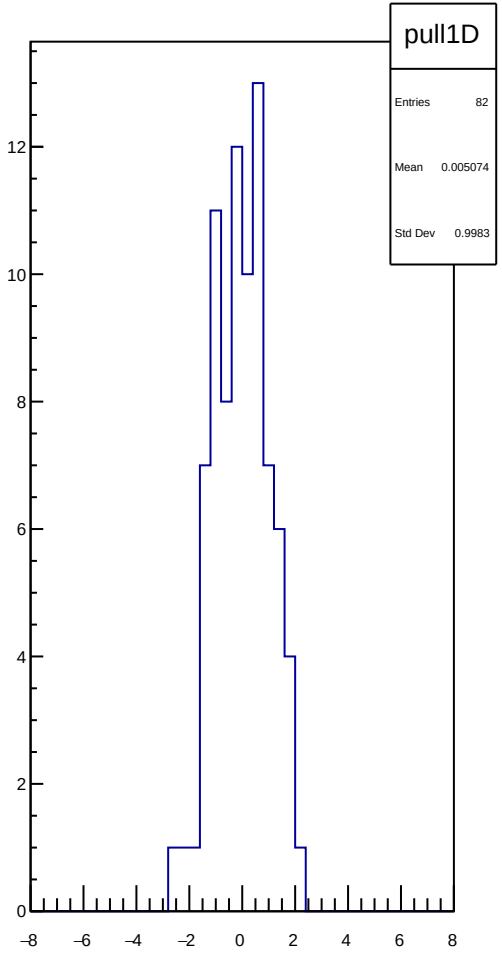

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 522.7 / 81
p0 1671 ± 1.312
1760
1740
1720
1700
1680
1660
1640
1620
1600

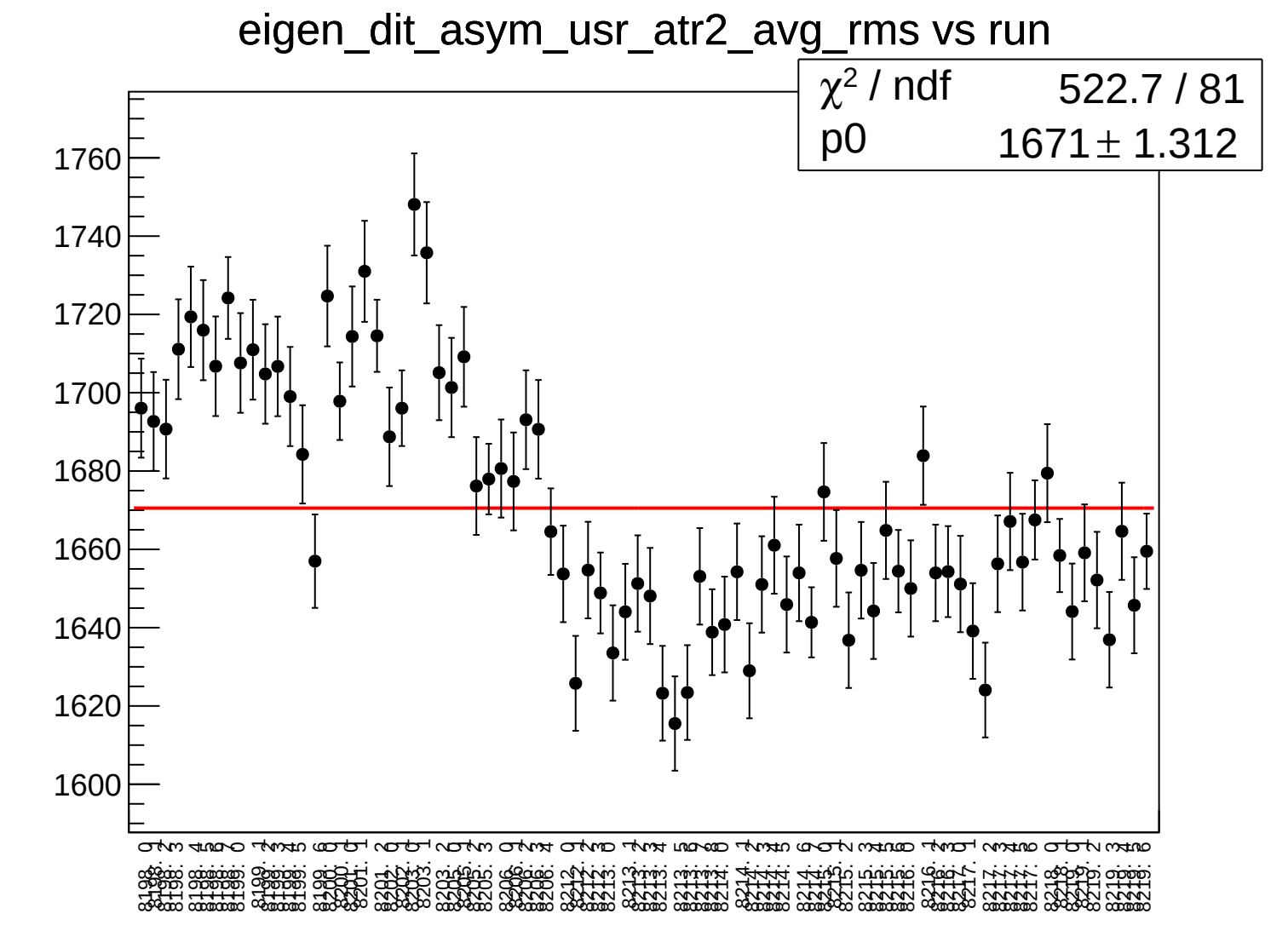

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.57 / 81
p0 3335 ± 1.006e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 82
Mean 0.2026
Std Dev 0
2
1
0
−1
−2
−3

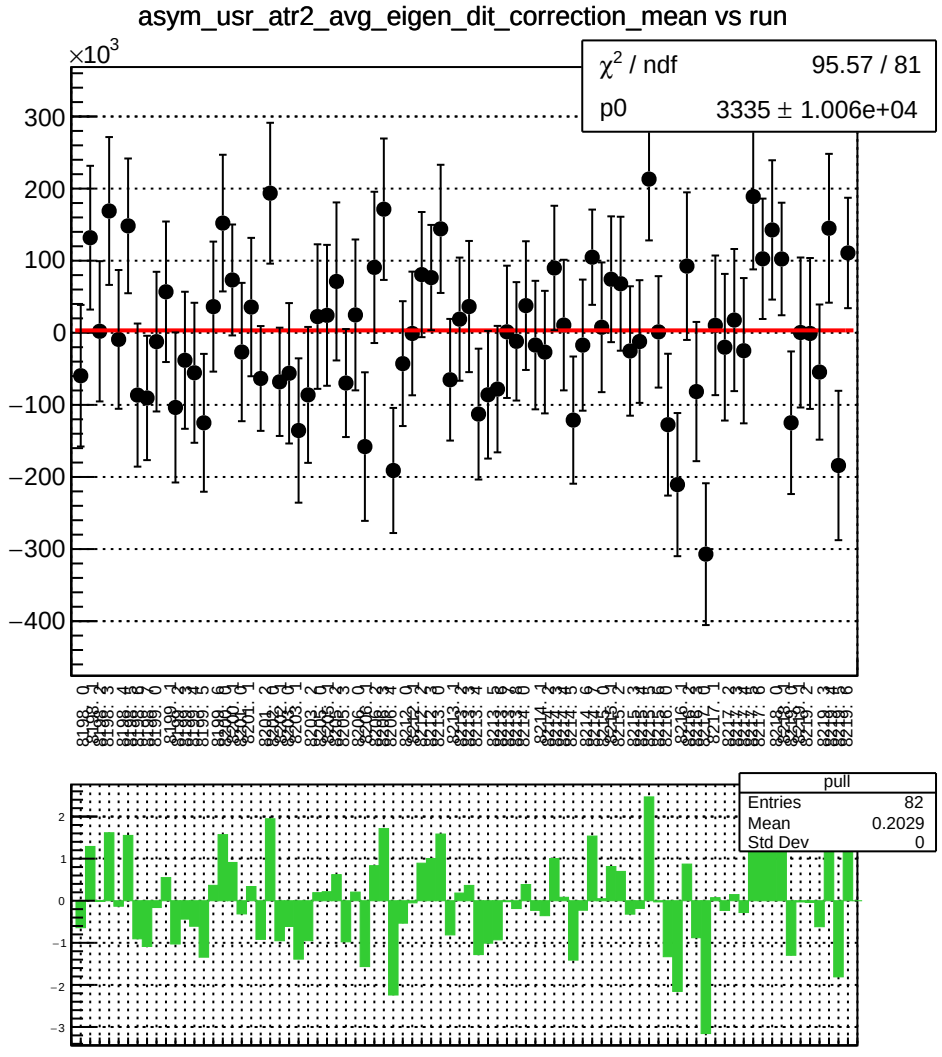

pull1D
Entries 82
Mean −0.01303
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

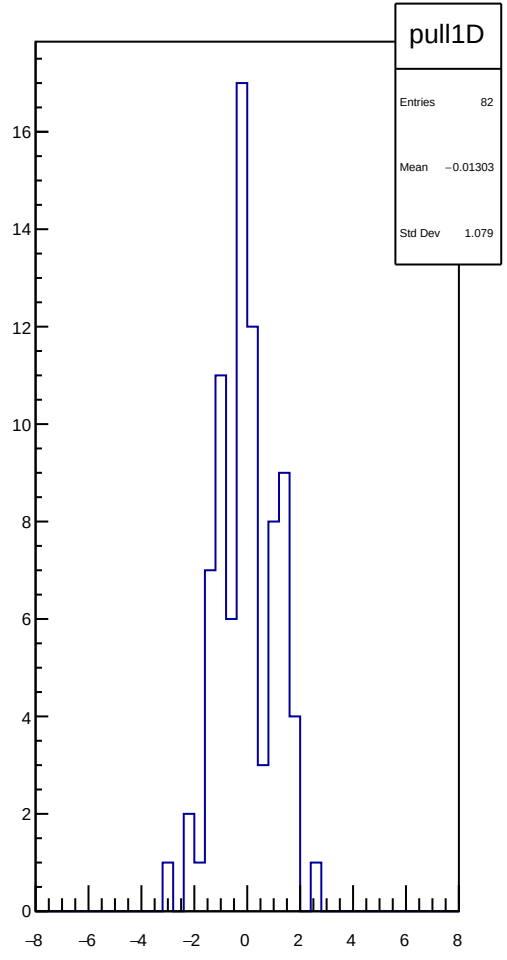

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 6884 / 81
p0 9034 ± 7.11
10500
10000
9500
9000
8500
8000

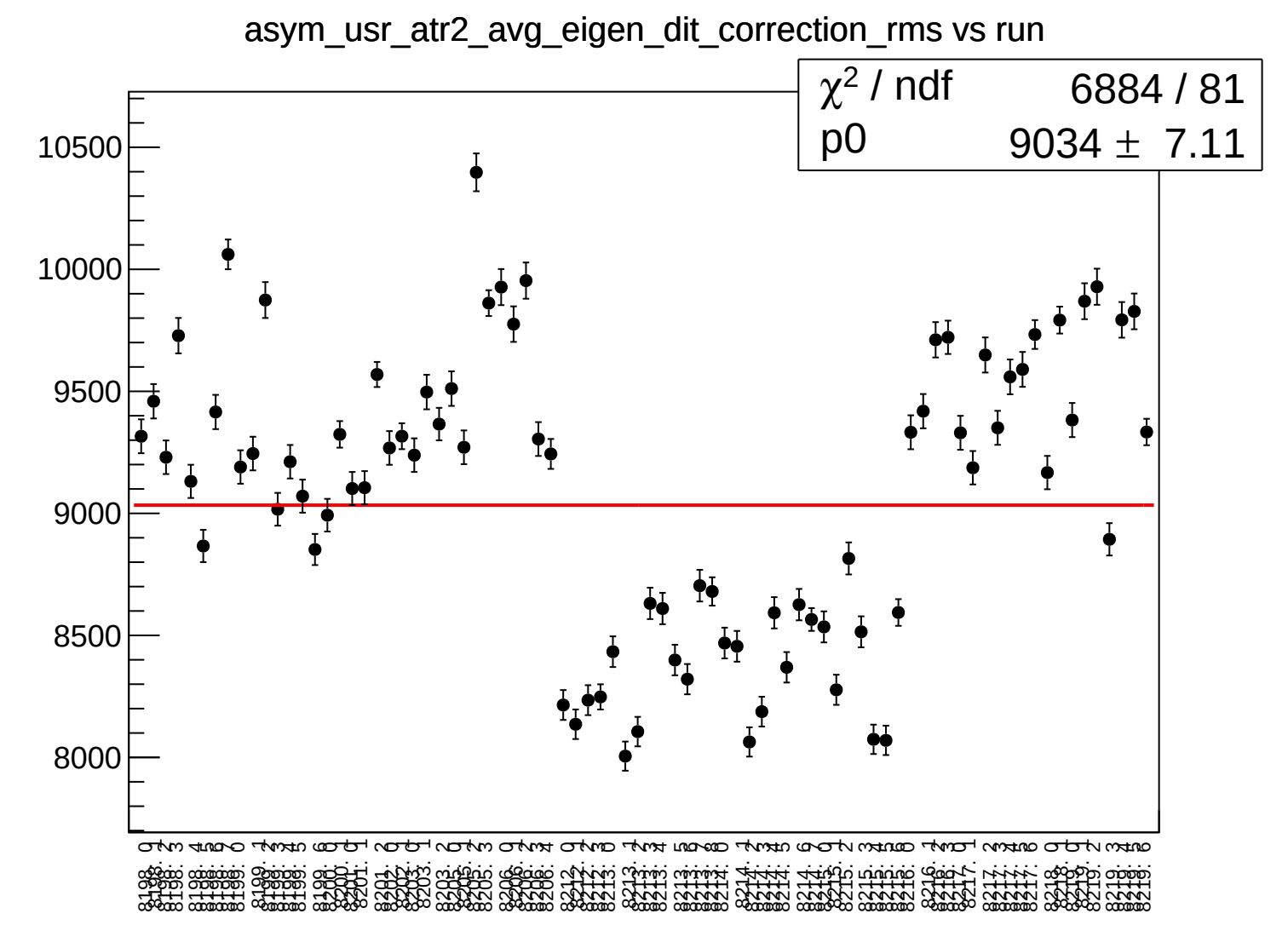

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 81.73 / 81
p0 1874 ± 1856
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −195.1
Std Dev 0
2
1
0
−1
−2

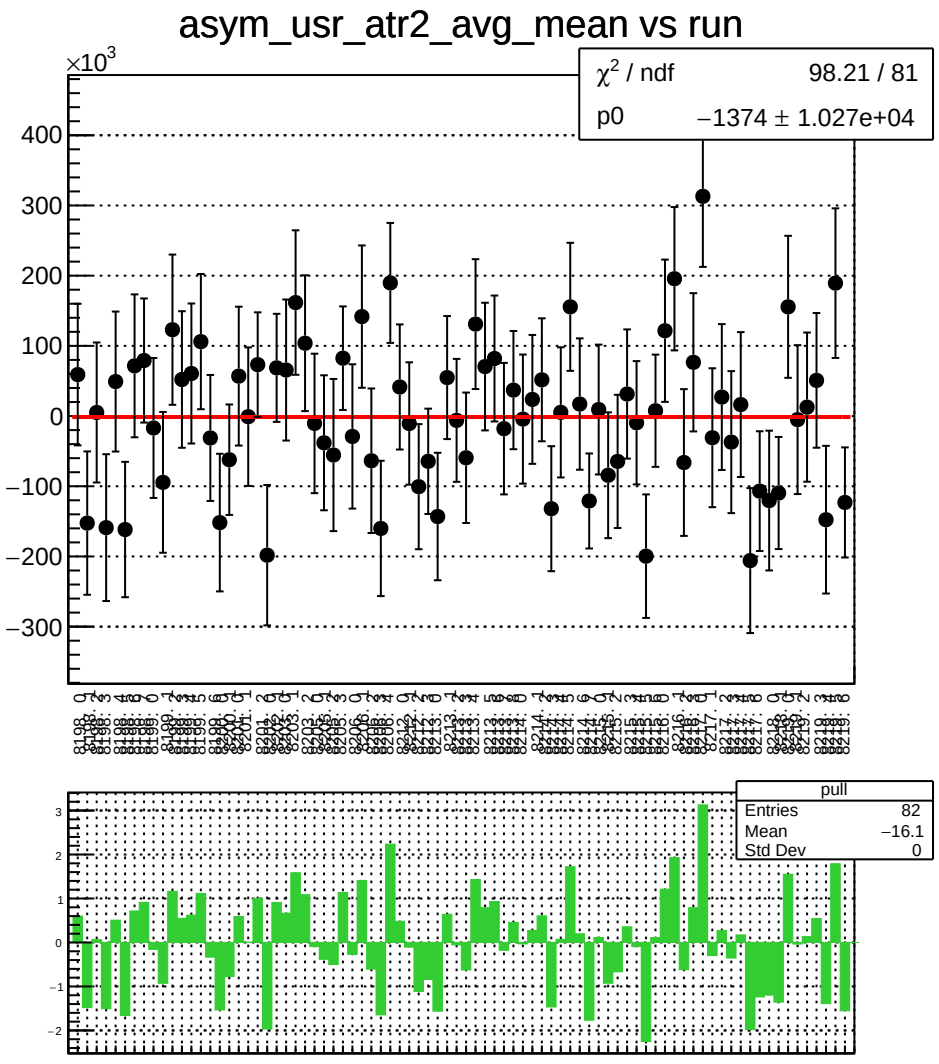

pull1D
Entries 82
Mean 0.005074
Std Dev 0.9983
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

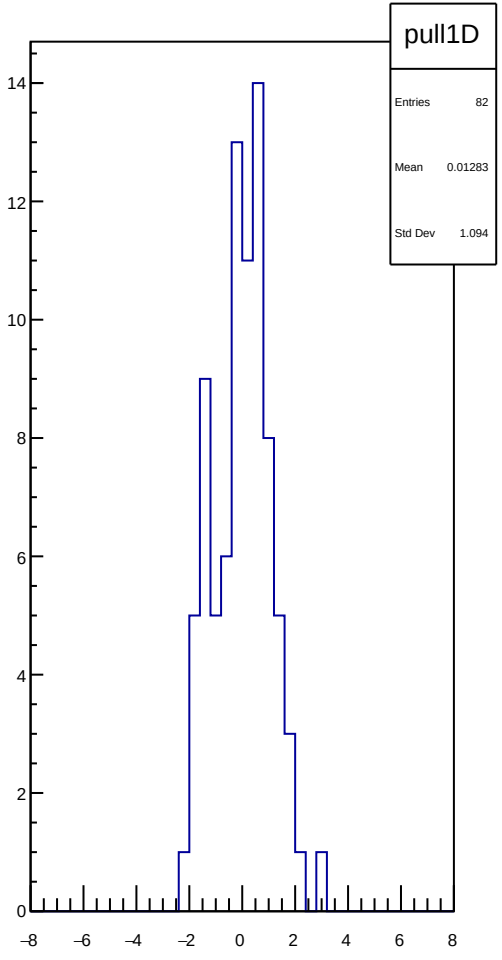

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 522.7 / 81
p0 1671 ± 1.312
1760
1740
1720
1700
1680
1660
1640
1620
1600

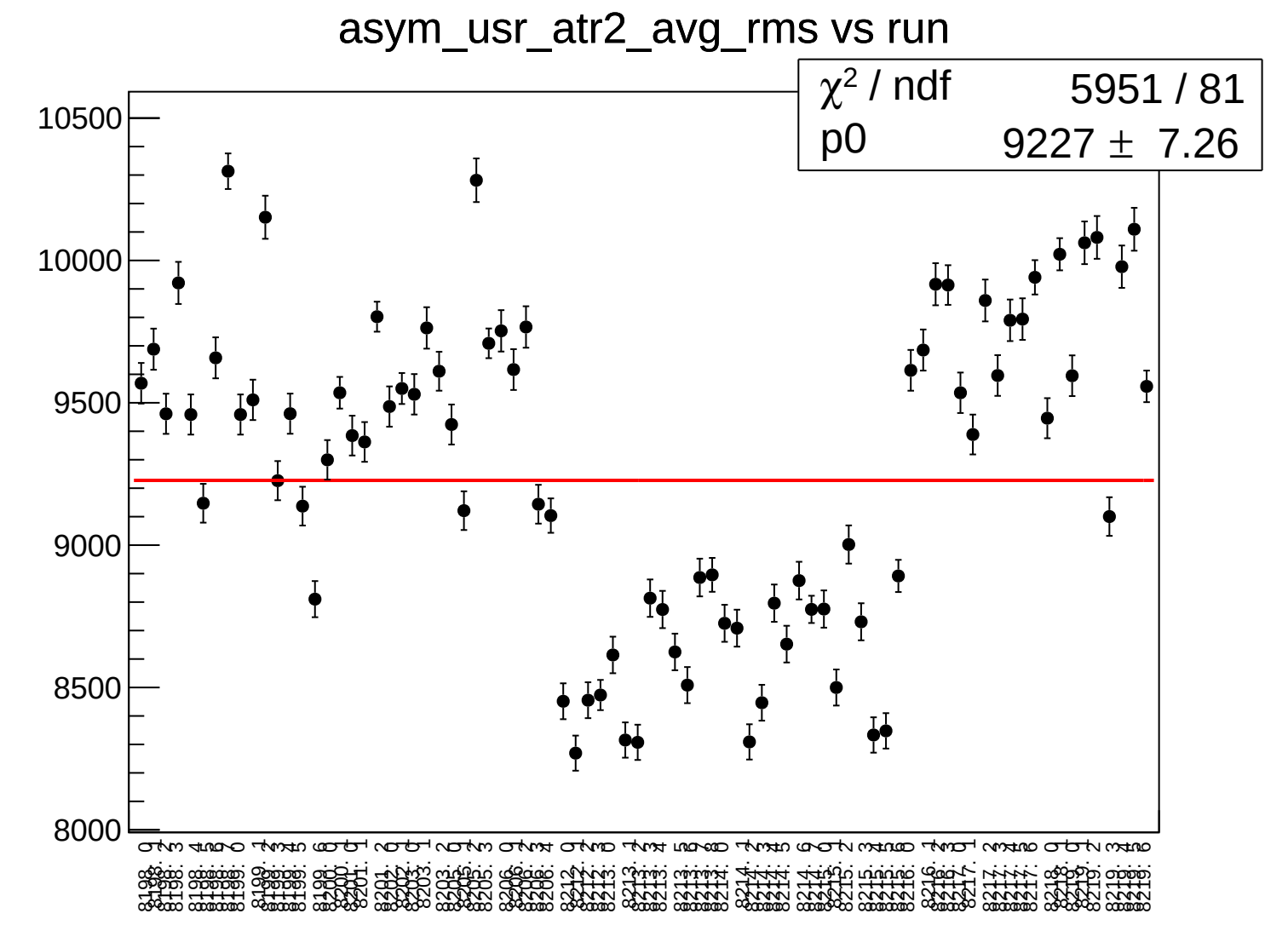

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.57 / 81
p0 3335 ± 1.006e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 82
Mean 0.2029
Std Dev 0
2
1
0
−1
−2
−3

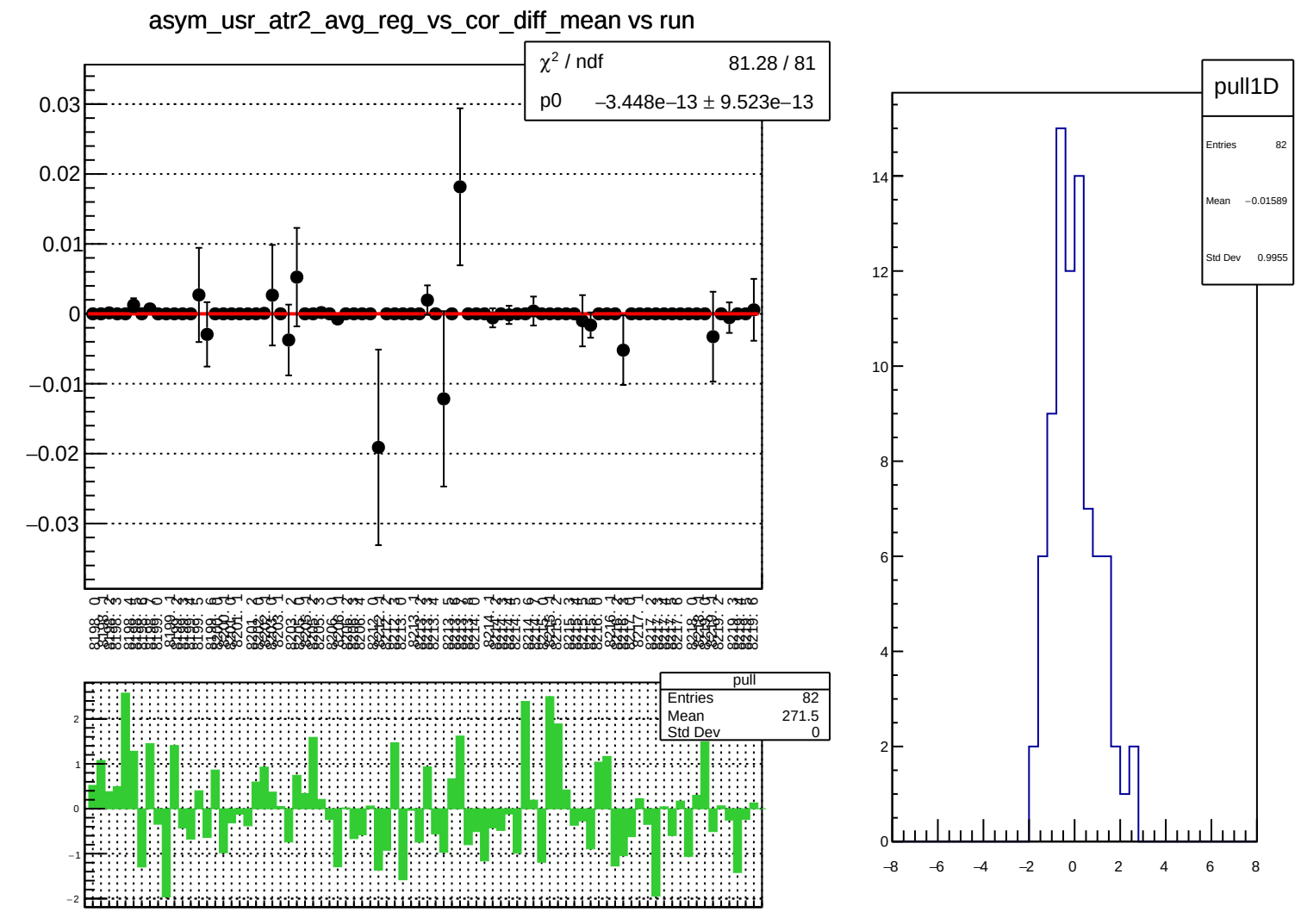

pull1D
Entries 82
Mean −0.01303
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

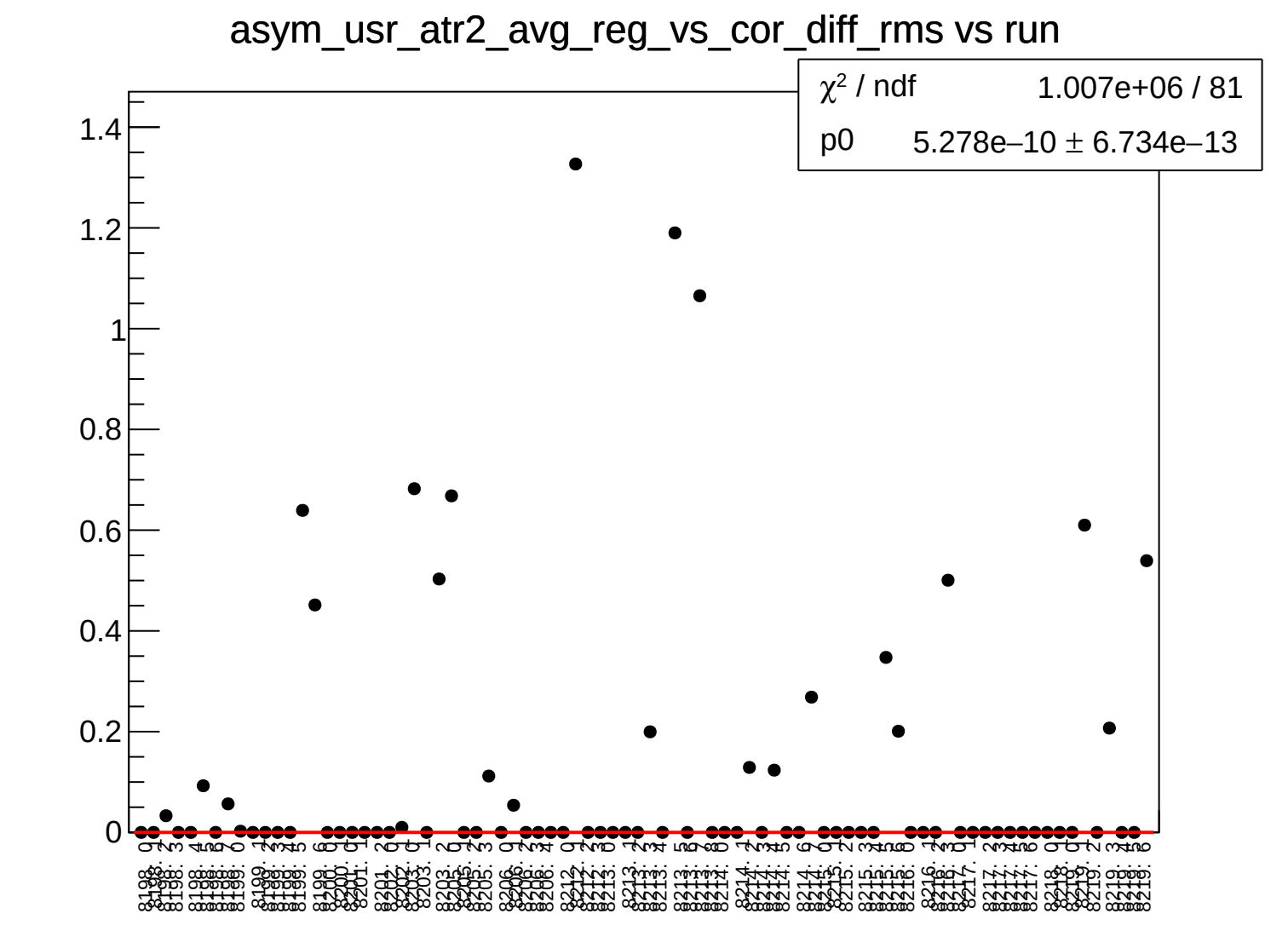

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6884 / 81
p0 9034 ± 7.11
10500
10000
9500
9000
8500
8000

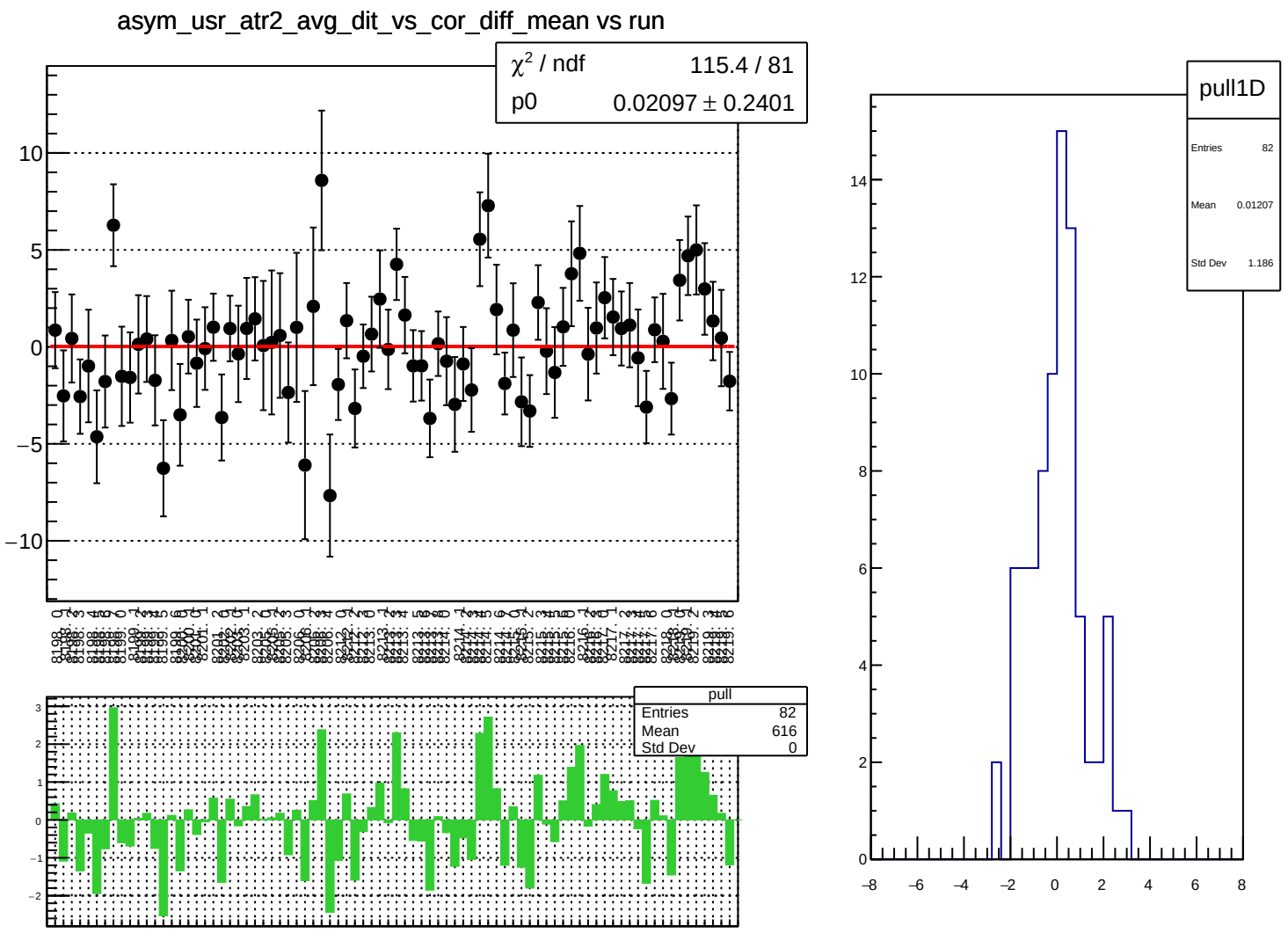

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 98.21 / 81
p0 −1374 ± 1.027e+04
400
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −16.1
Std Dev 0
3
2
1
0
−1
−2

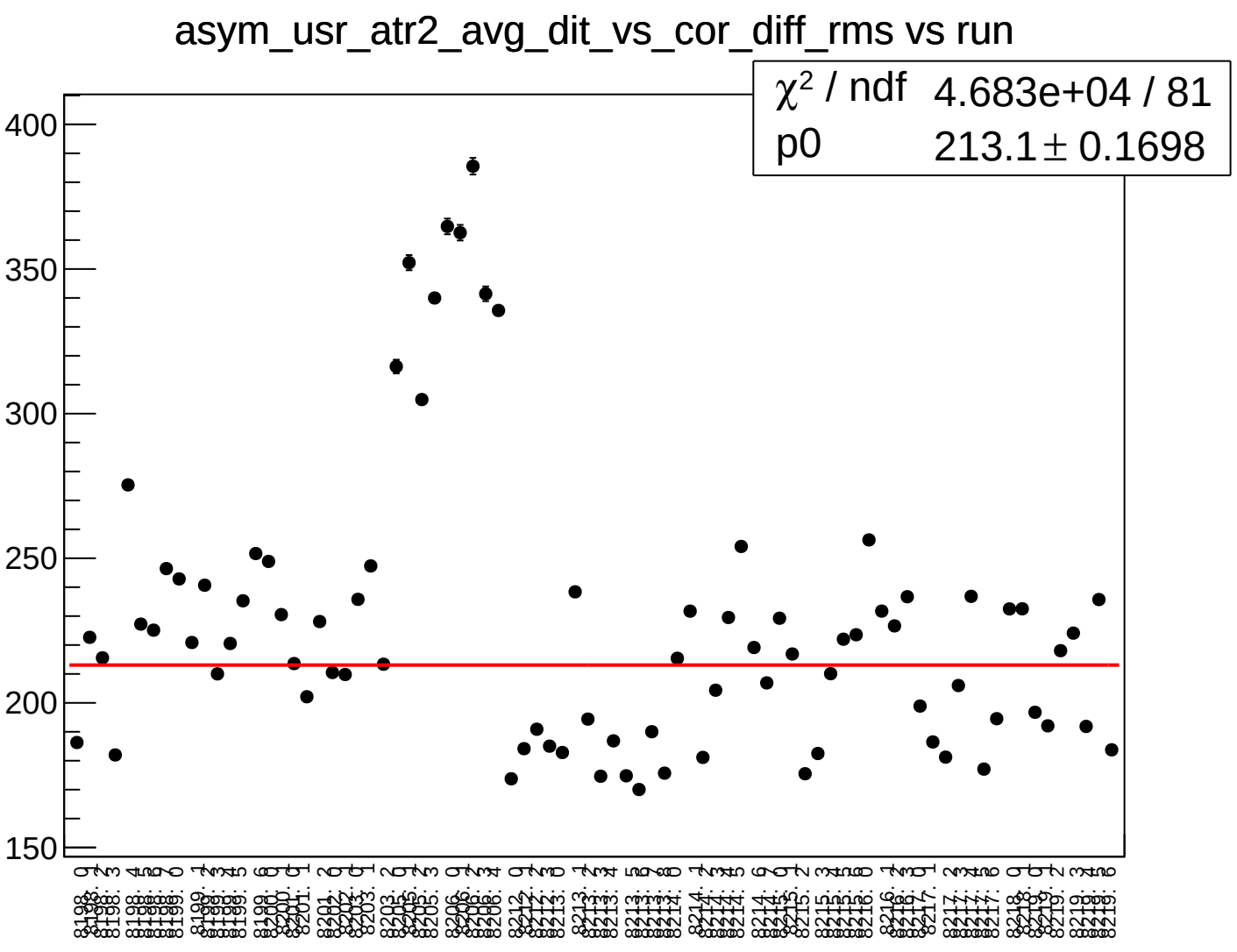

pull1D
Entries 82
Mean 0.01283
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

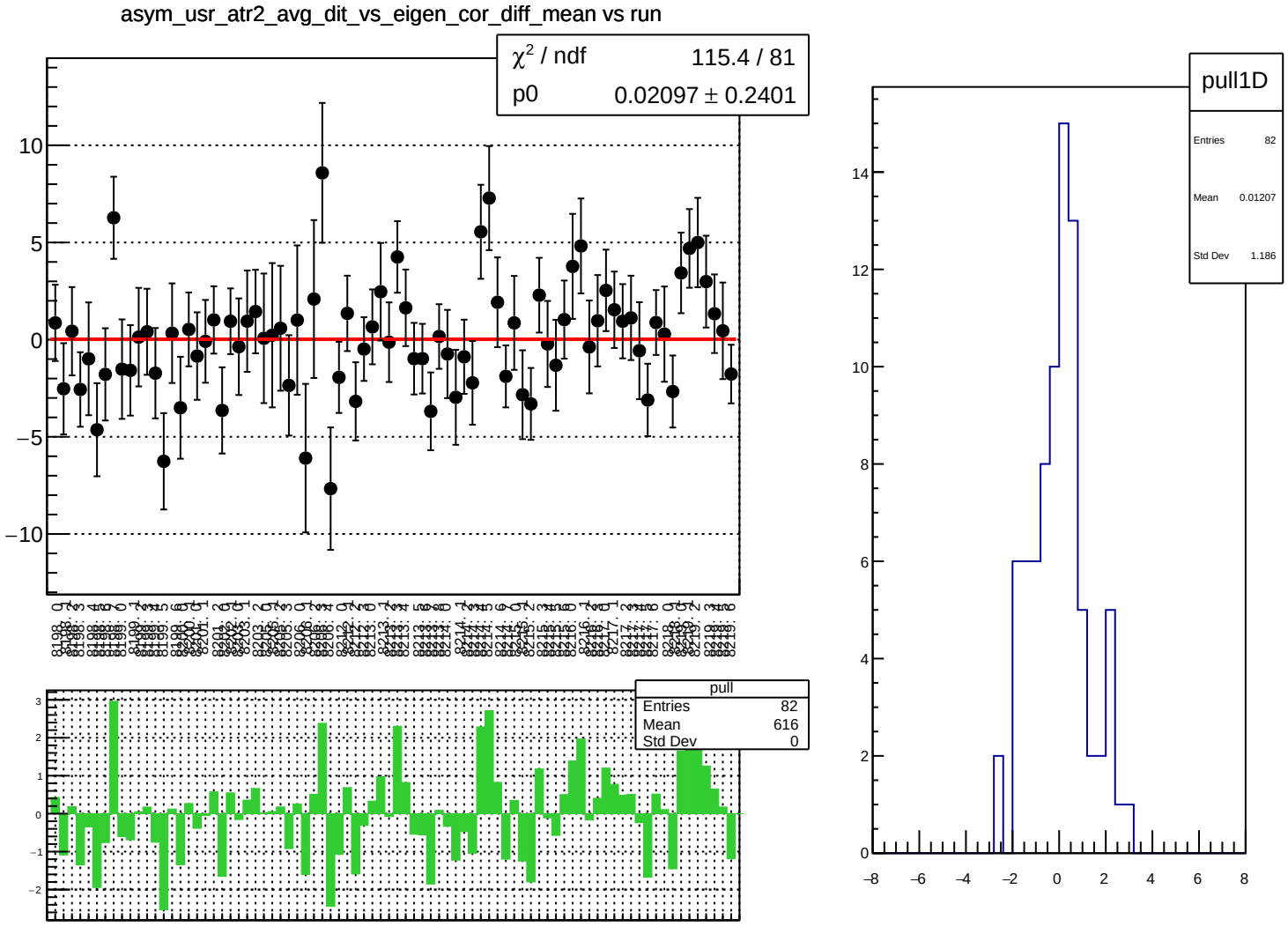

asym_usr_atr2_avg_rms vs run
χ² / ndf 5951 / 81
p0 9227 ± 7.26
10500
10000
9500
9000
8500
8000

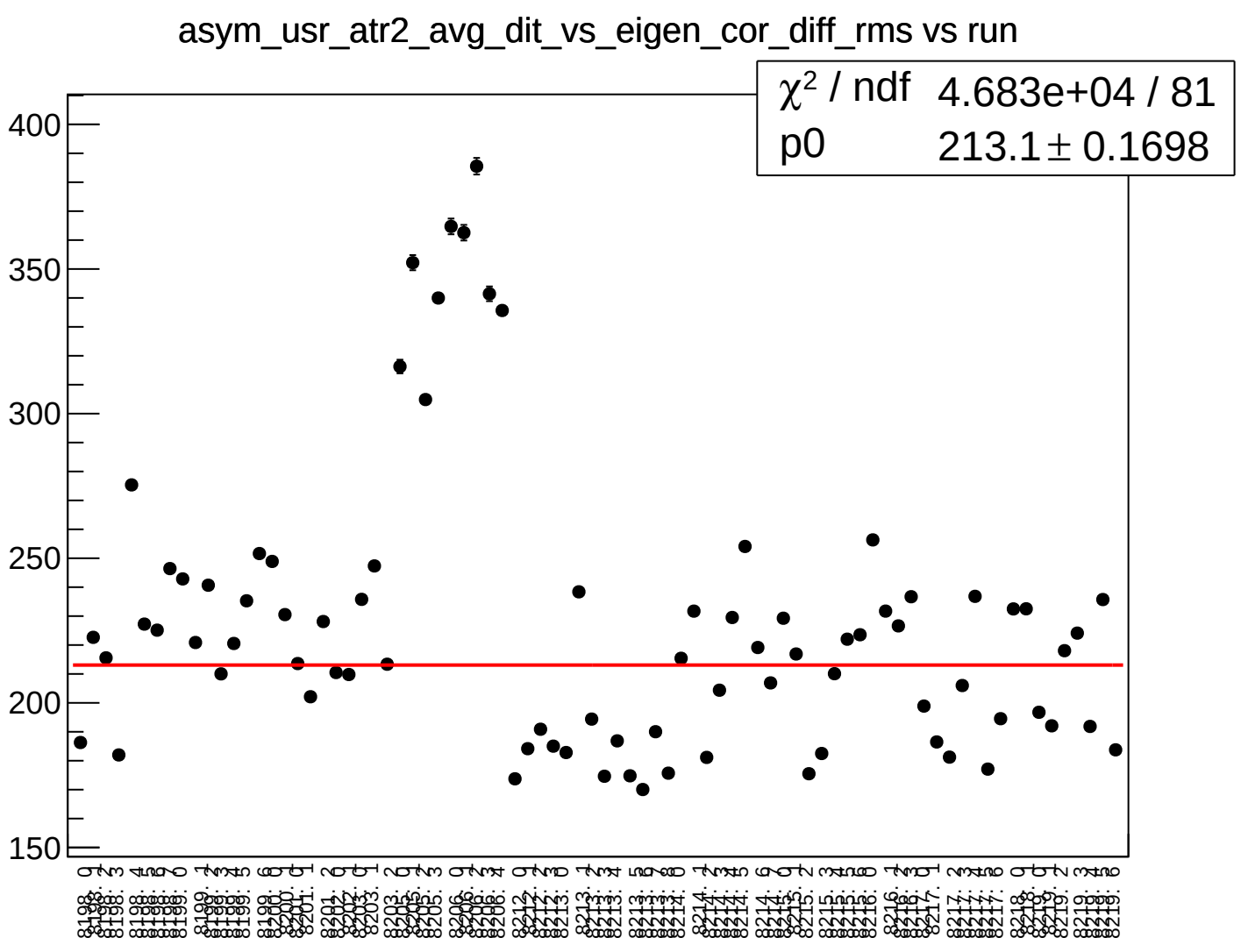

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.28 / 81
p0 −3.448e−13 ± 9.523e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 82
Mean 271.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.01589
Std Dev 0.9955
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

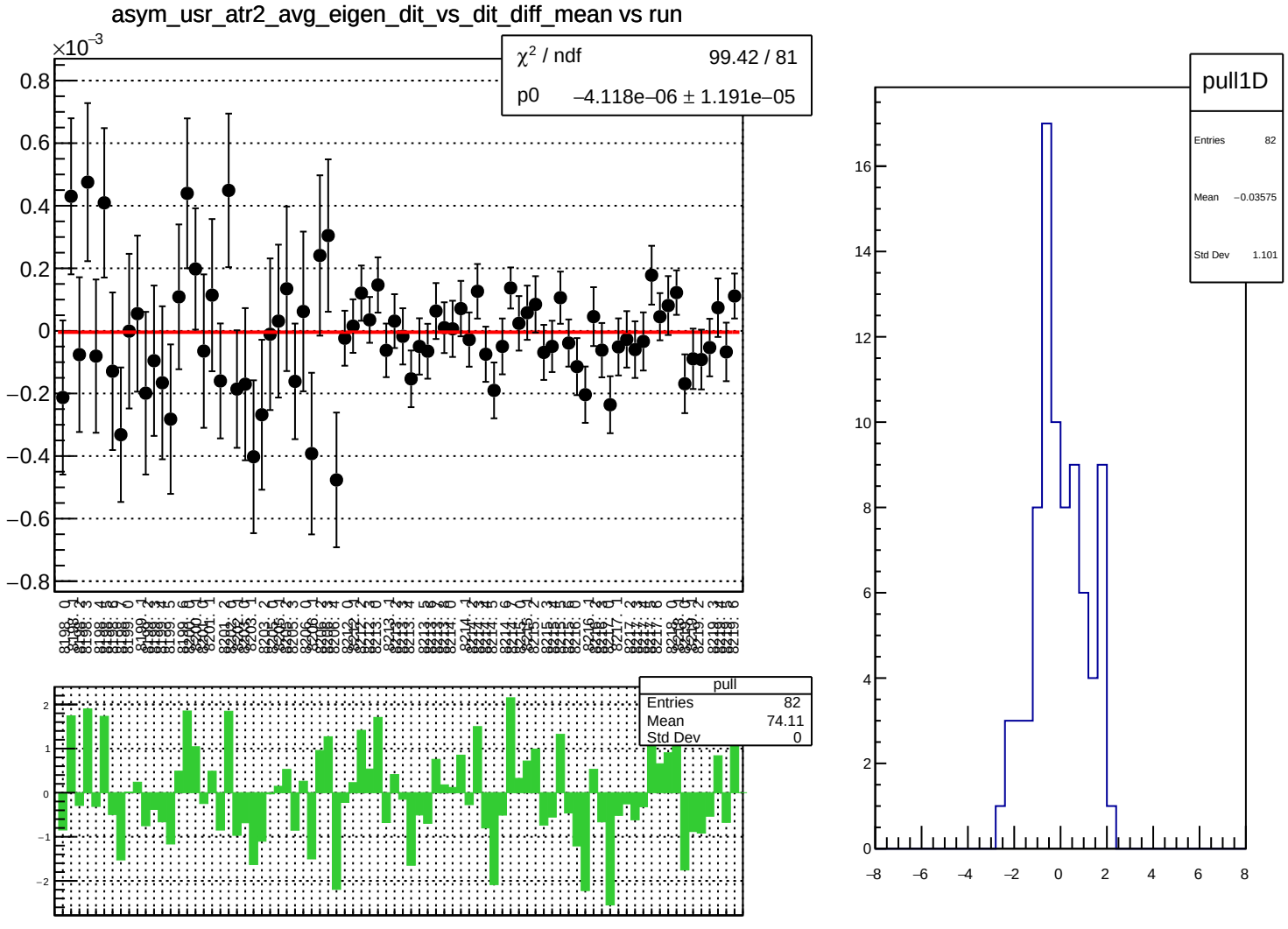

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.007e+06 / 81
p0 5.278e−10 ± 6.734e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

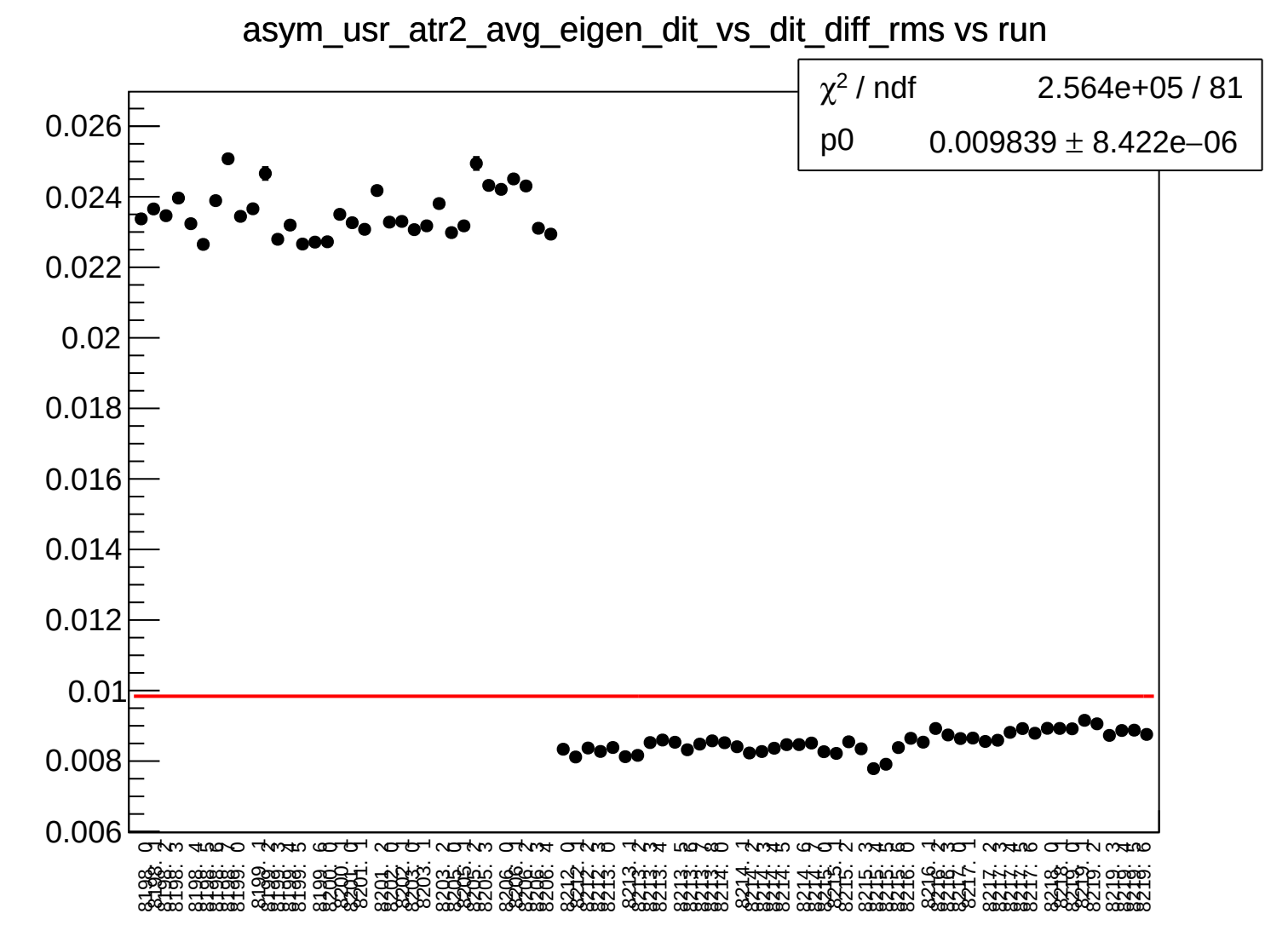

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 115.4 / 81
p0 0.02097 ± 0.2401
pull
Entries 82
Mean 616
Std Dev 0
pull1D
Entries 82
Mean 0.01207
Std Dev 1.186

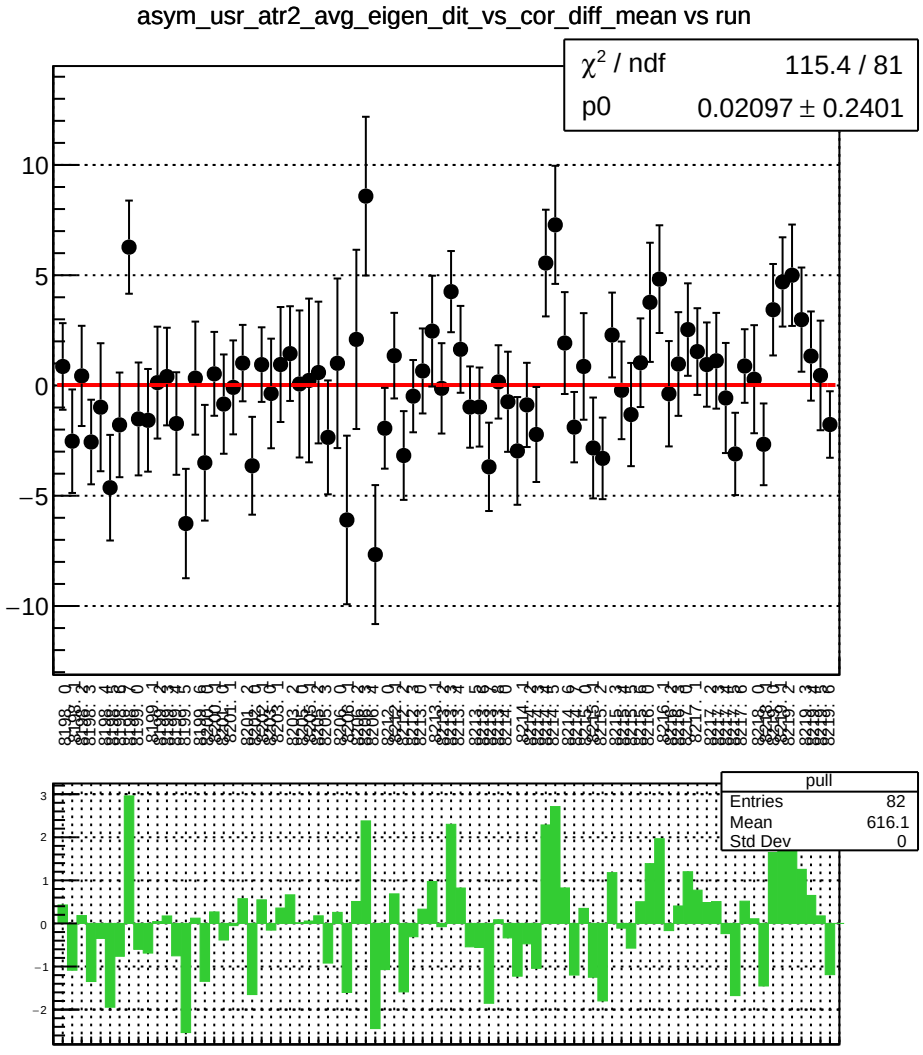

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.683e+04 / 81
p0 213.1 ± 0.1698
400
350
300
250
200
150

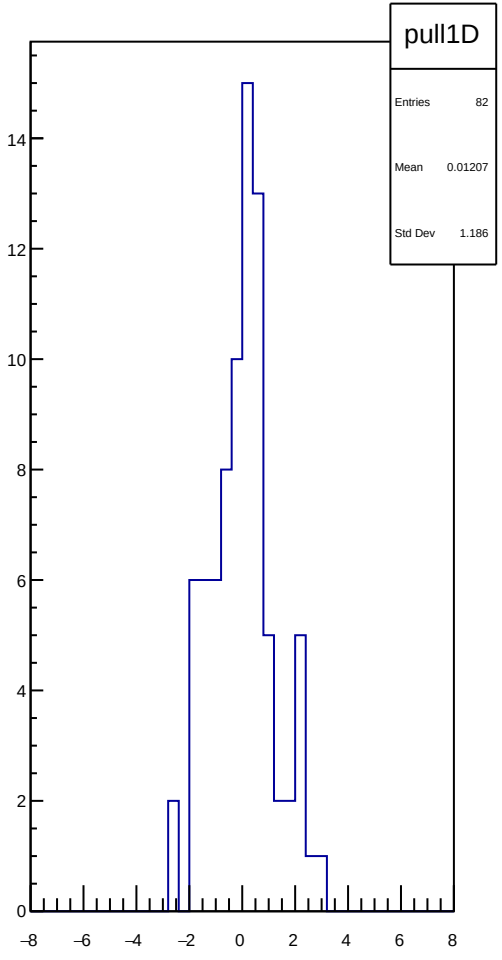

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.4 / 81
p0 0.02097 ± 0.2401
pull
Entries 82
Mean 616
Std Dev 0
pull1D
Entries 82
Mean 0.01207
Std Dev 1.186

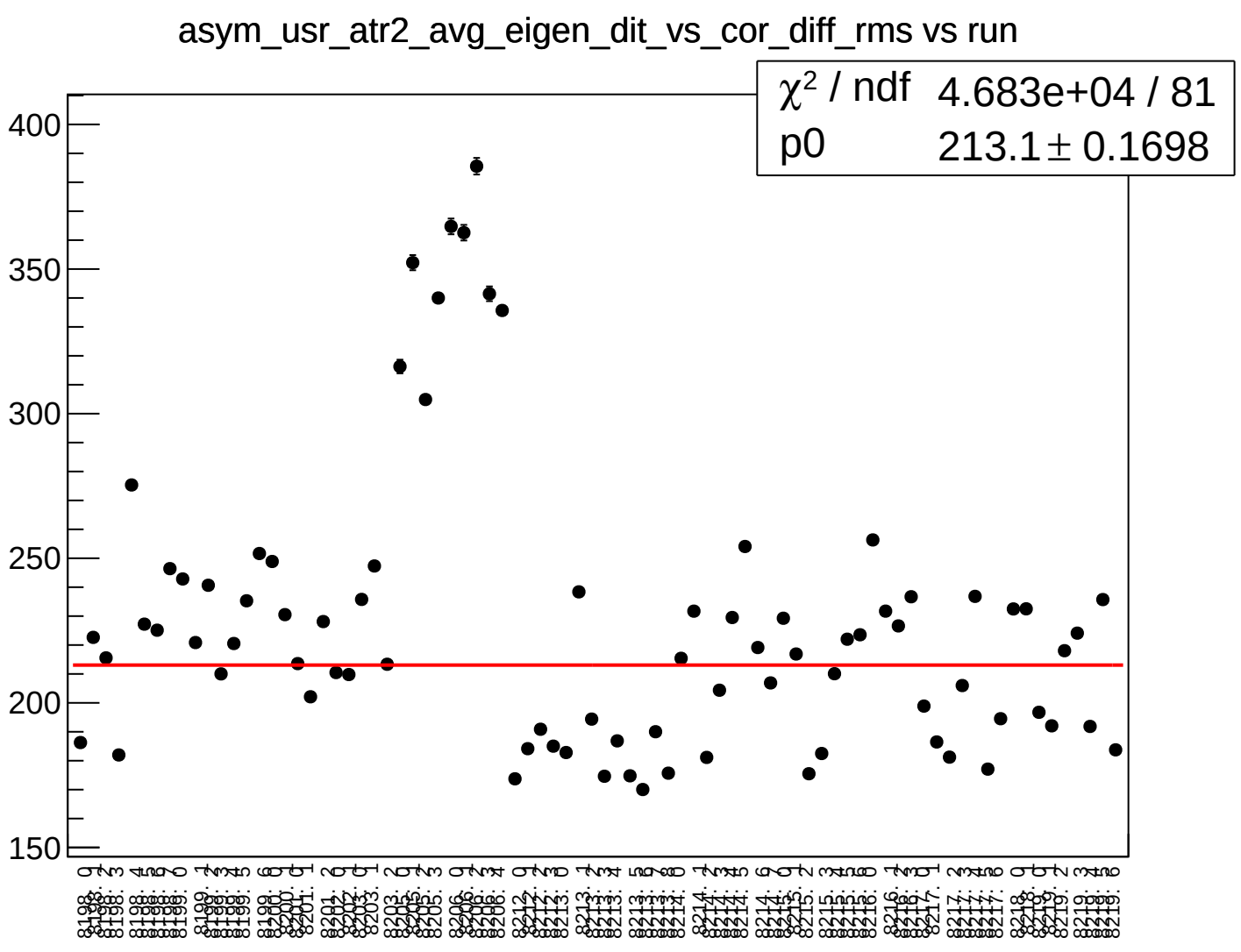

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.683e+04 / 81
p0 213.1 ± 0.1698
400
350
300
250
200
150

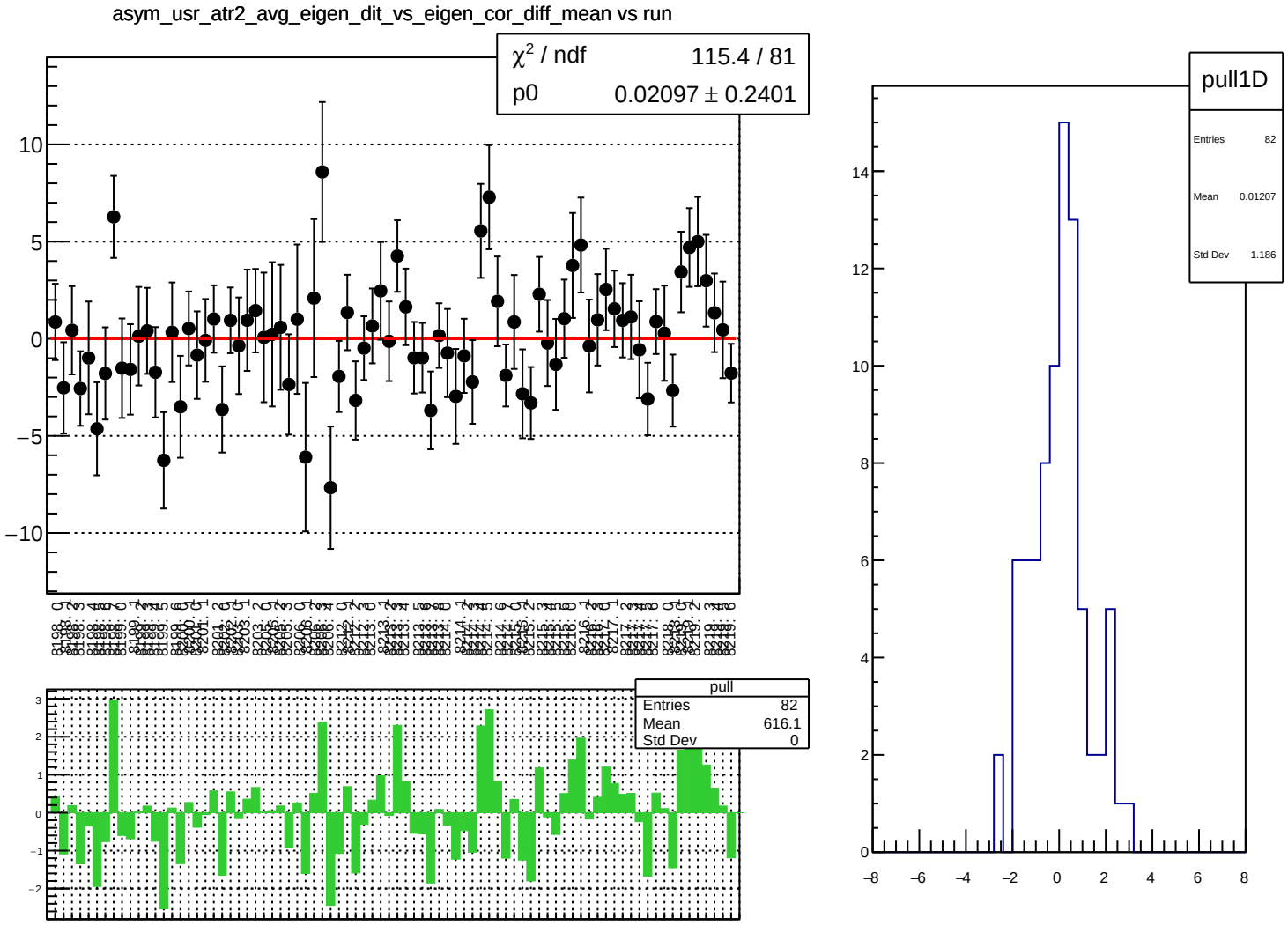

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.42 / 81
p0 −4.118e−06 ± 1.191e−05
pull
Entries 82
Mean 74.11
Std Dev 0
pull1D
Entries 82
Mean −0.03575
Std Dev 1.101

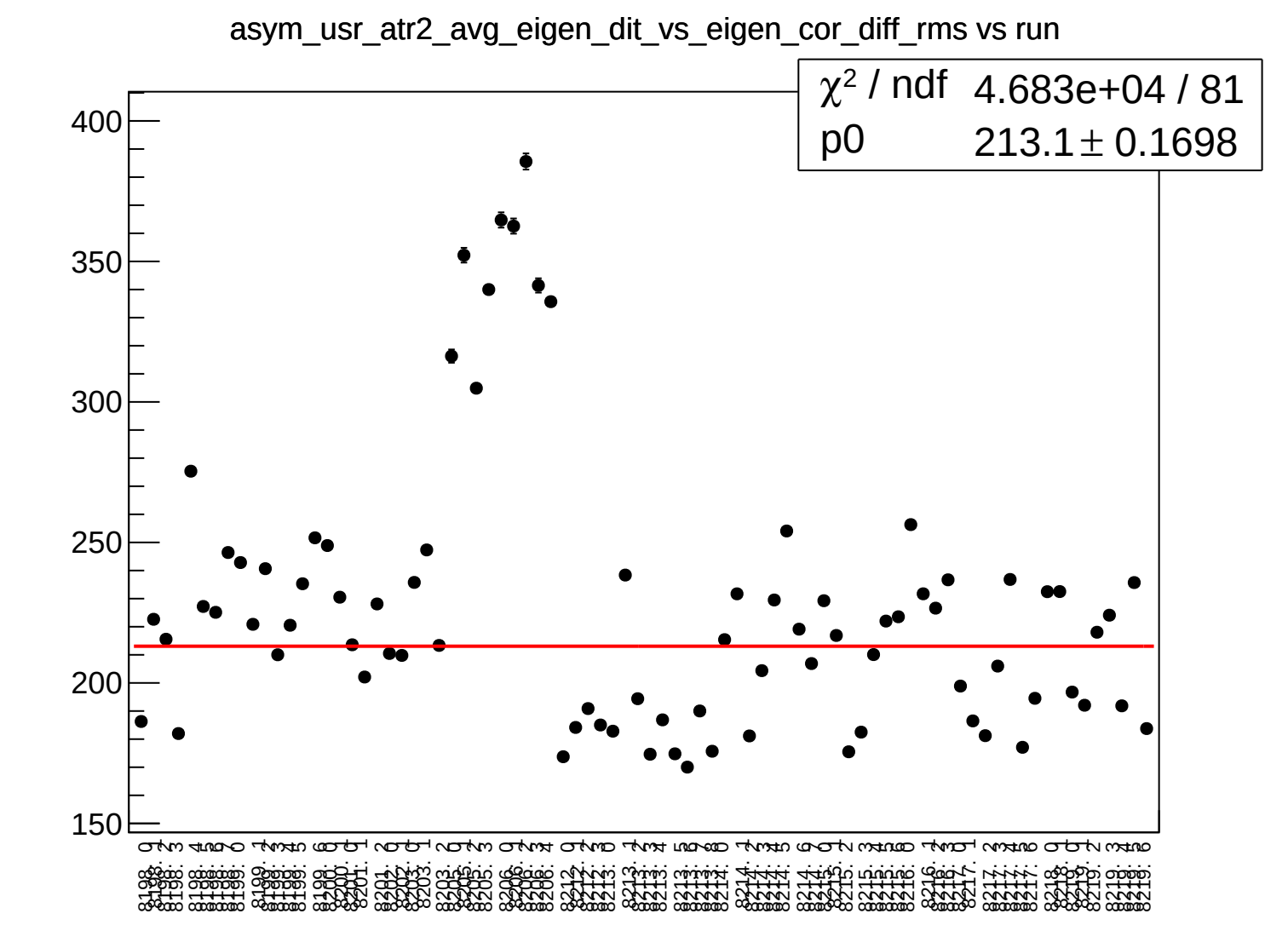

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.564e+05 / 81
p0 0.009839 ± 8.422e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

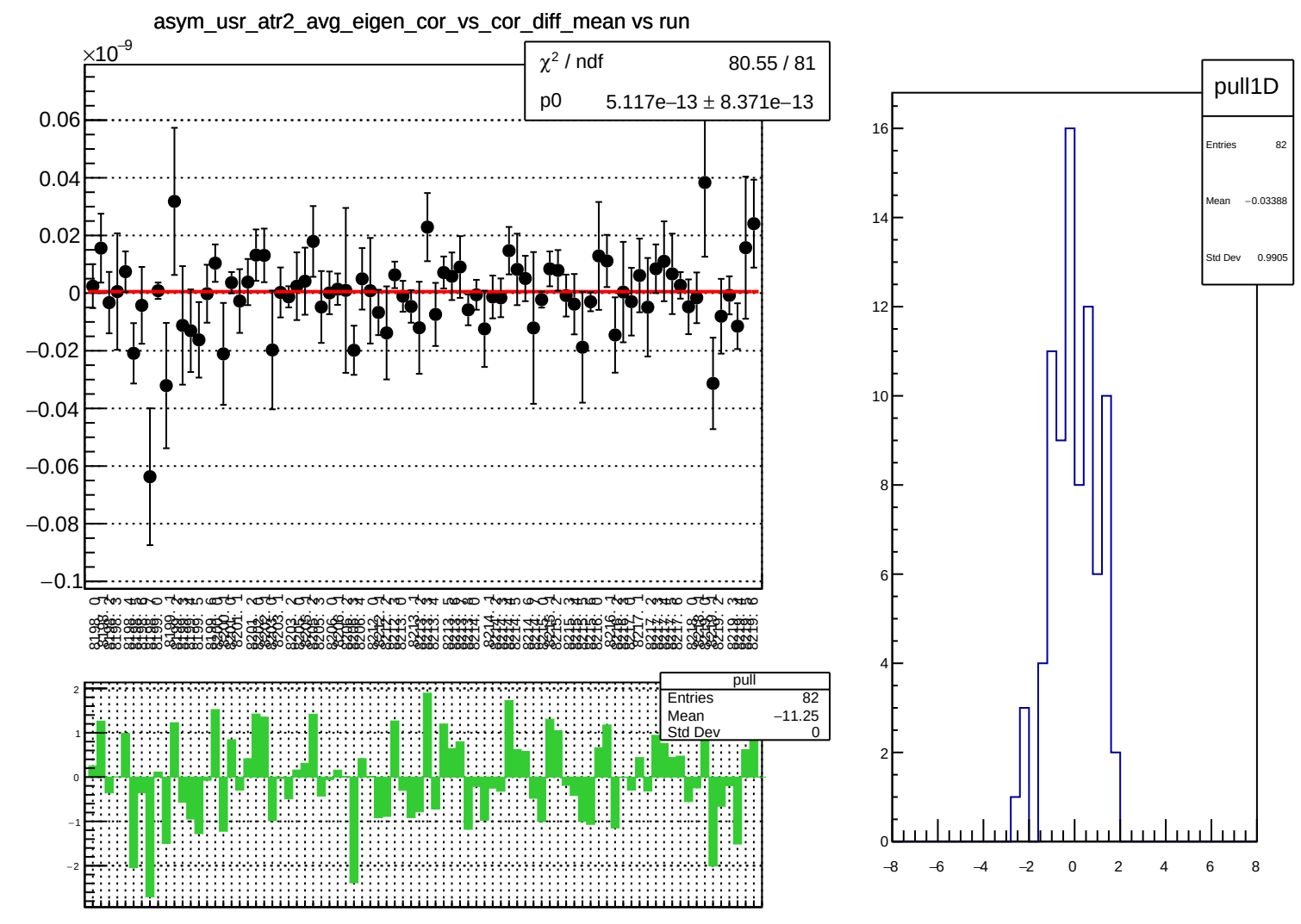

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.4 / 81
p0 0.02097 ± 0.2401
pull
Entries 82
Mean 616.1
Std Dev 0

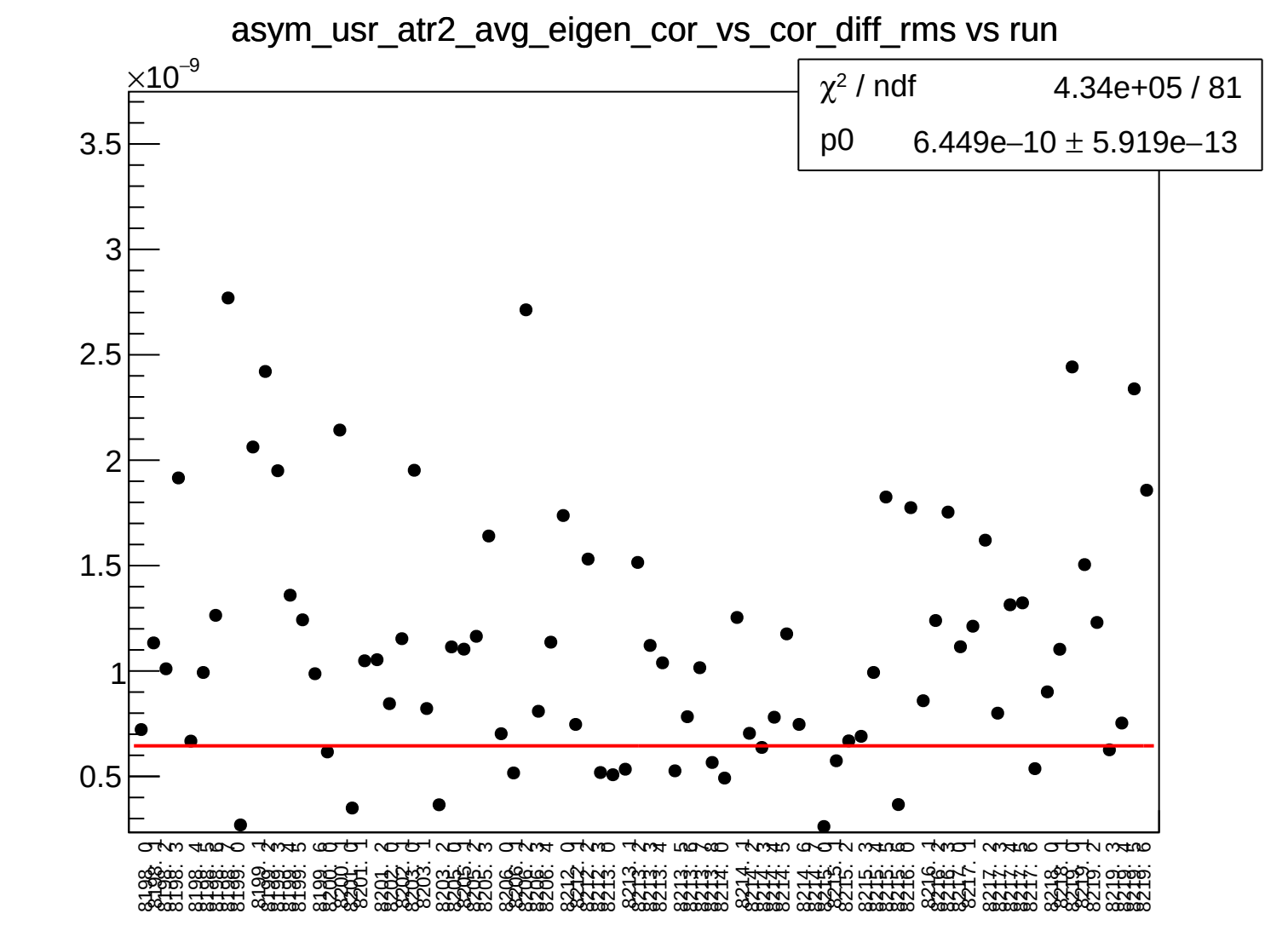

pull1D
Entries 82
Mean 0.01207
Std Dev 1.186

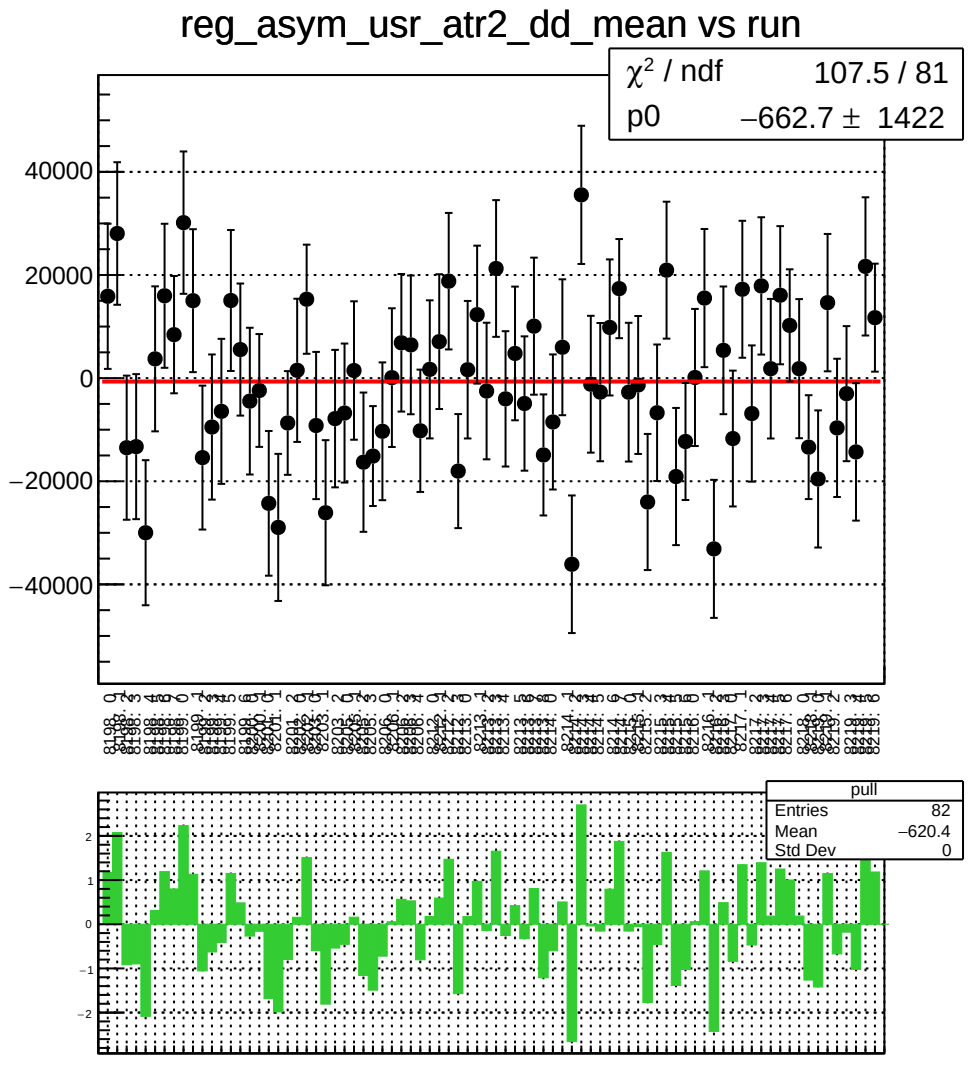

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.683e+04 / 81
p0 213.1 ± 0.1698
400
350
300
250
200
150

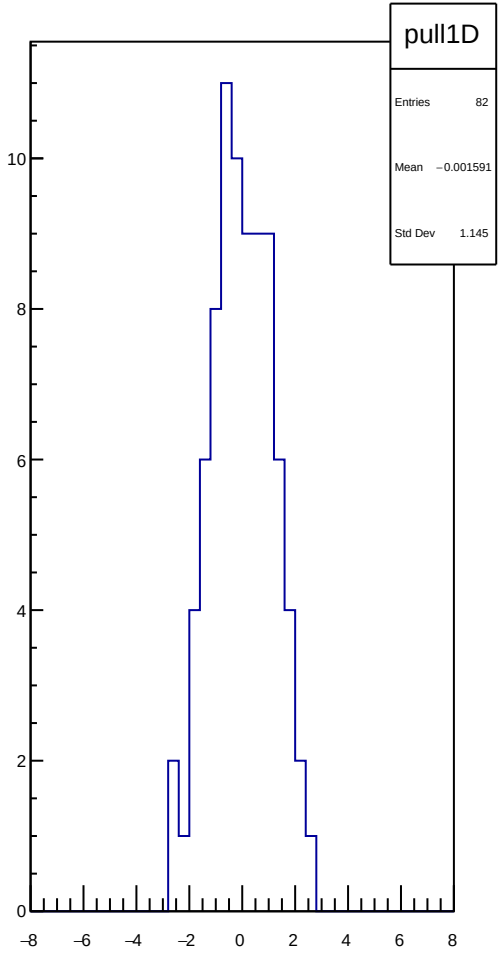

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.4 / 81
p0 0.02097 ± 0.2401
pull
Entries 82
Mean 616.1
Std Dev 0
pull1D
Entries 82
Mean 0.01207
Std Dev 1.186

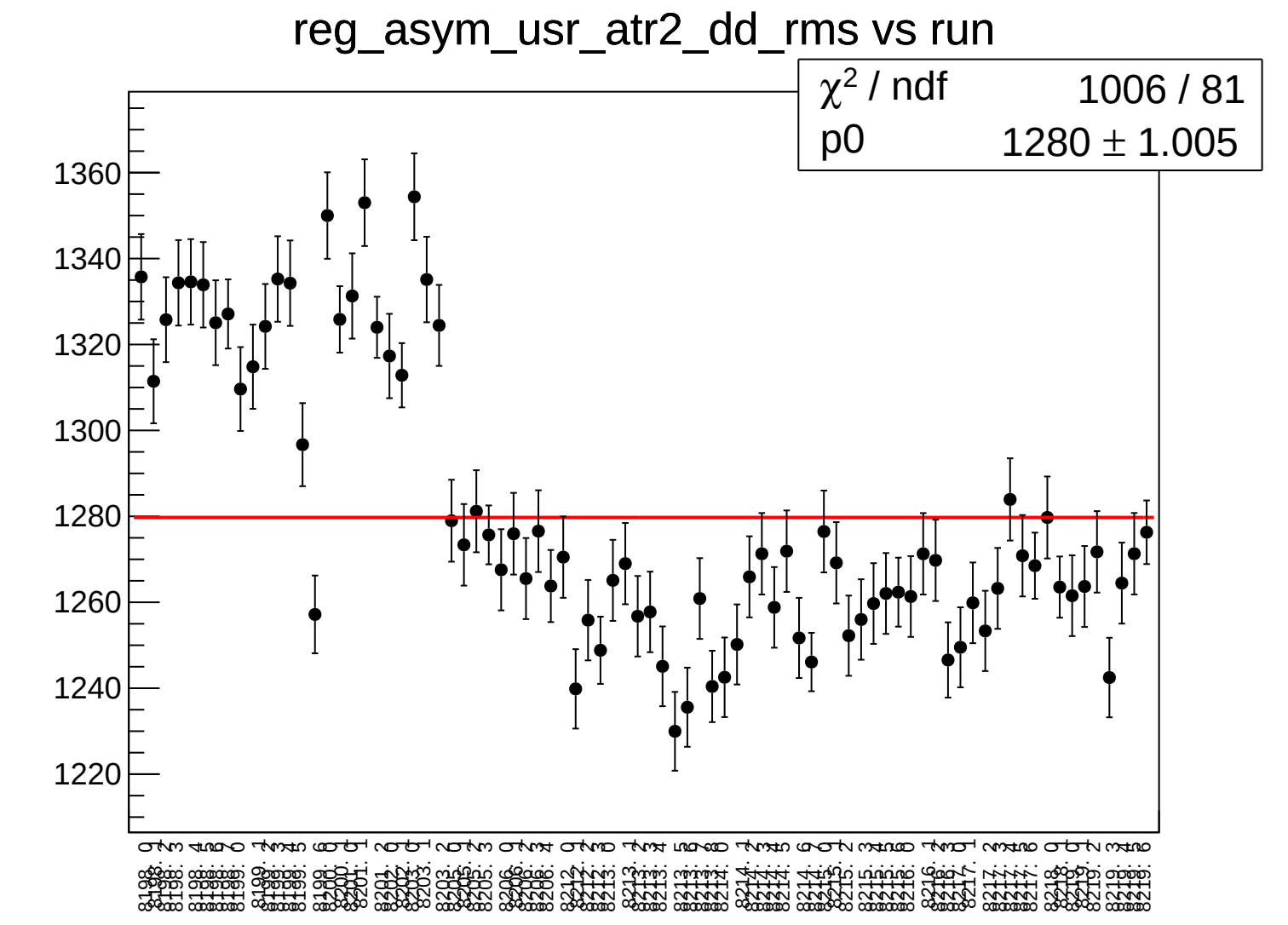

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.683e+04 / 81
p0 213.1 ± 0.1698
400
350
300
250
200
150

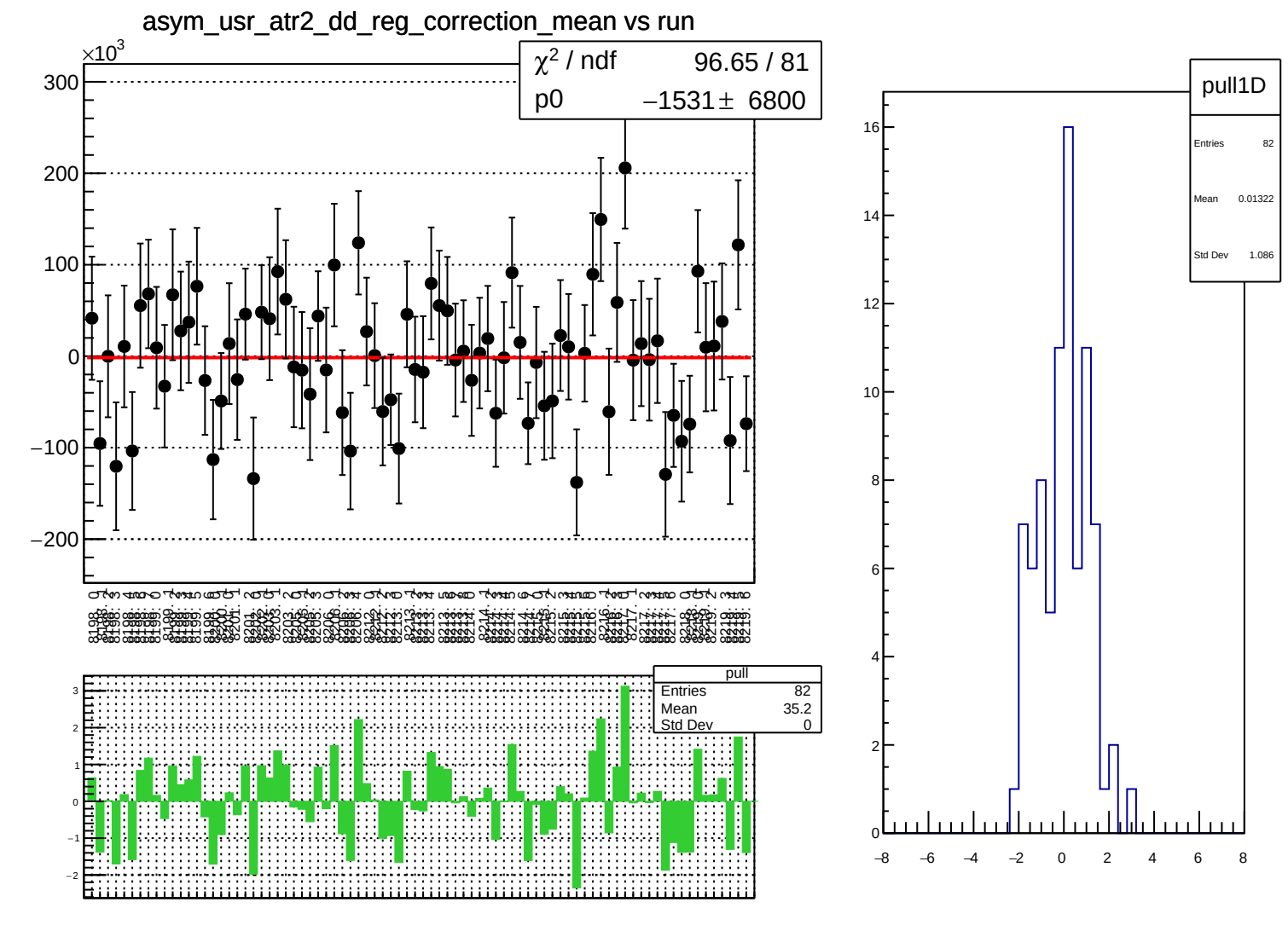

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 80.55 / 81
p0 5.117e−13 ± 8.371e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 82
Mean −11.25
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.03388
Std Dev 0.9905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

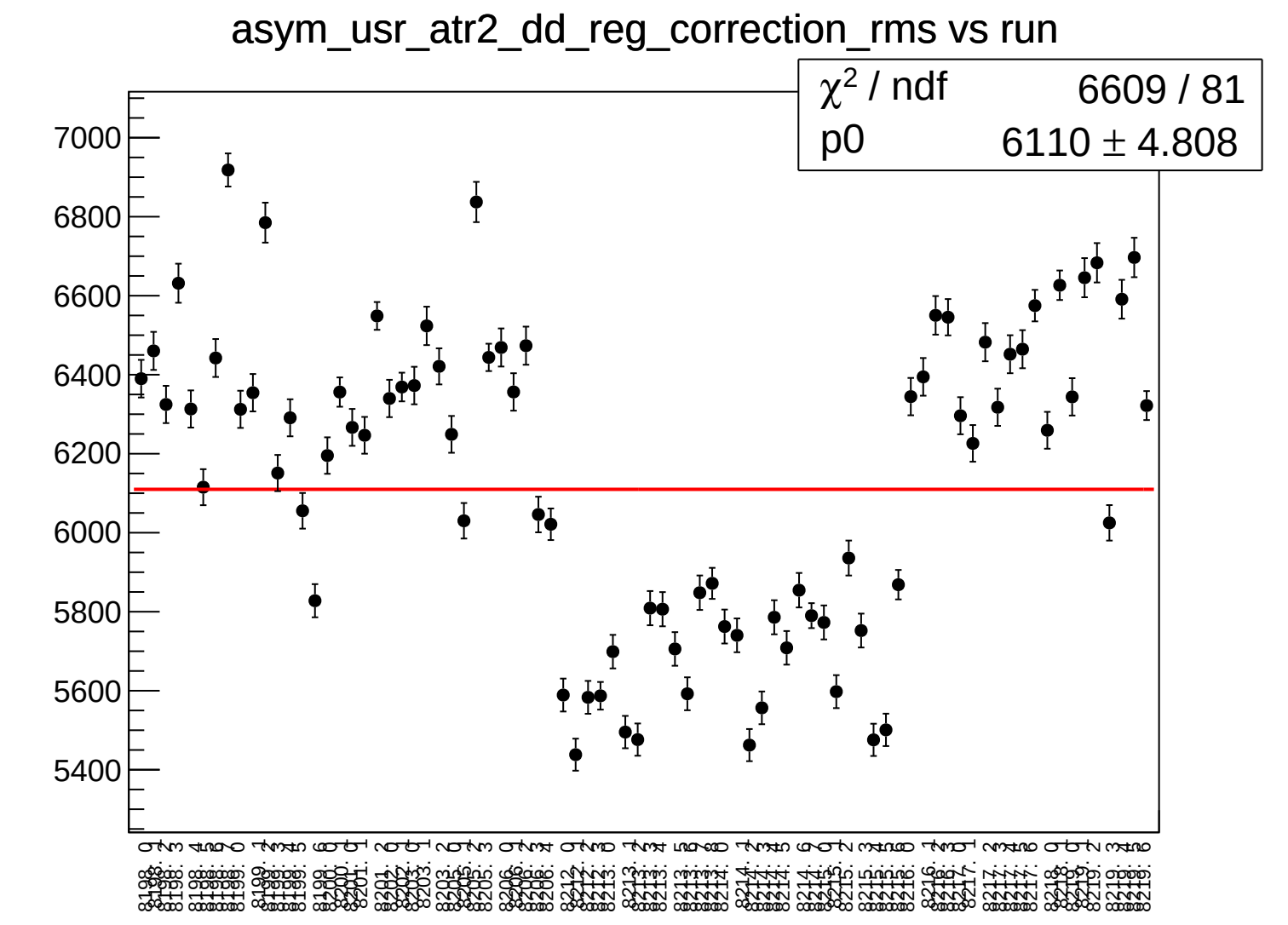

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.34e+05 / 81
p0 6.449e−10 ± 5.919e−13
3.5
3
2.5
2
1.5
1
0.5

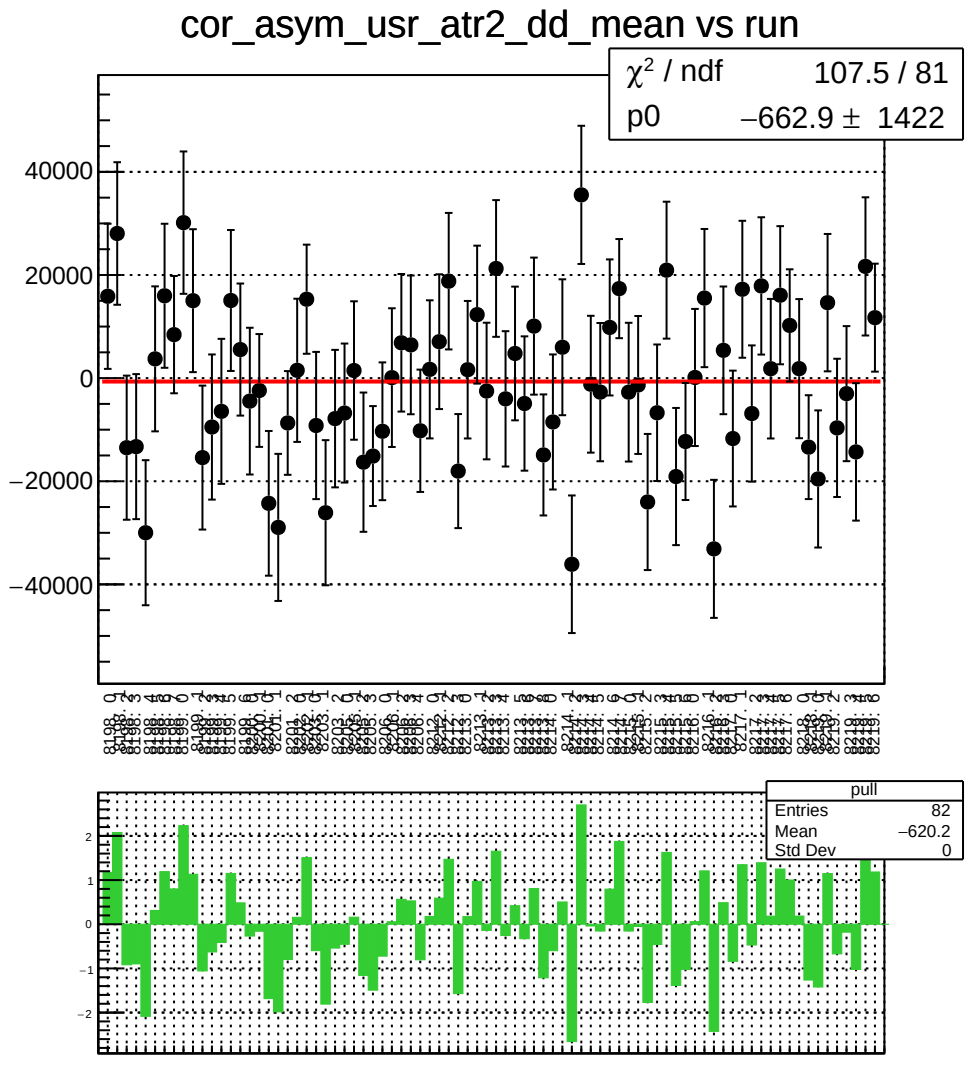

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 107.5 / 81
p0 −662.7 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −620.4
Std Dev 0
2
1
0
−1
−2

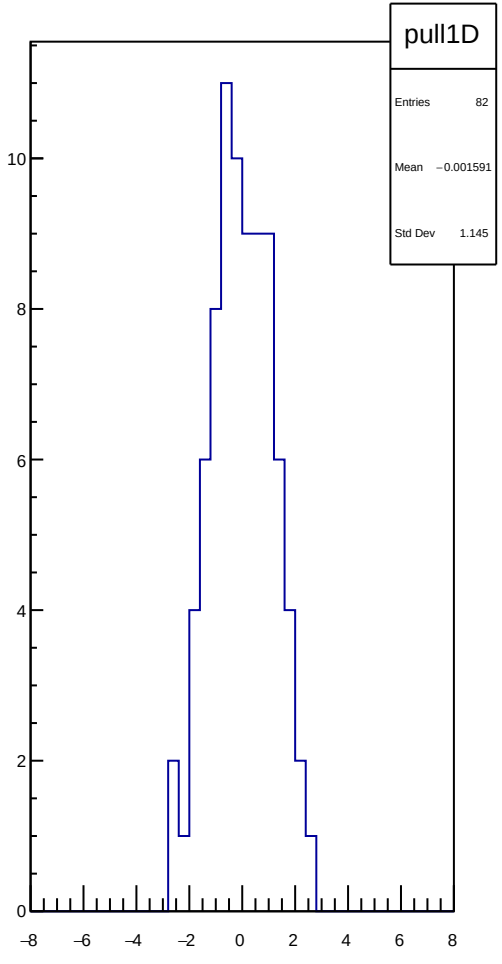

pull1D
Entries 82
Mean −0.001591
Std Dev 1.145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

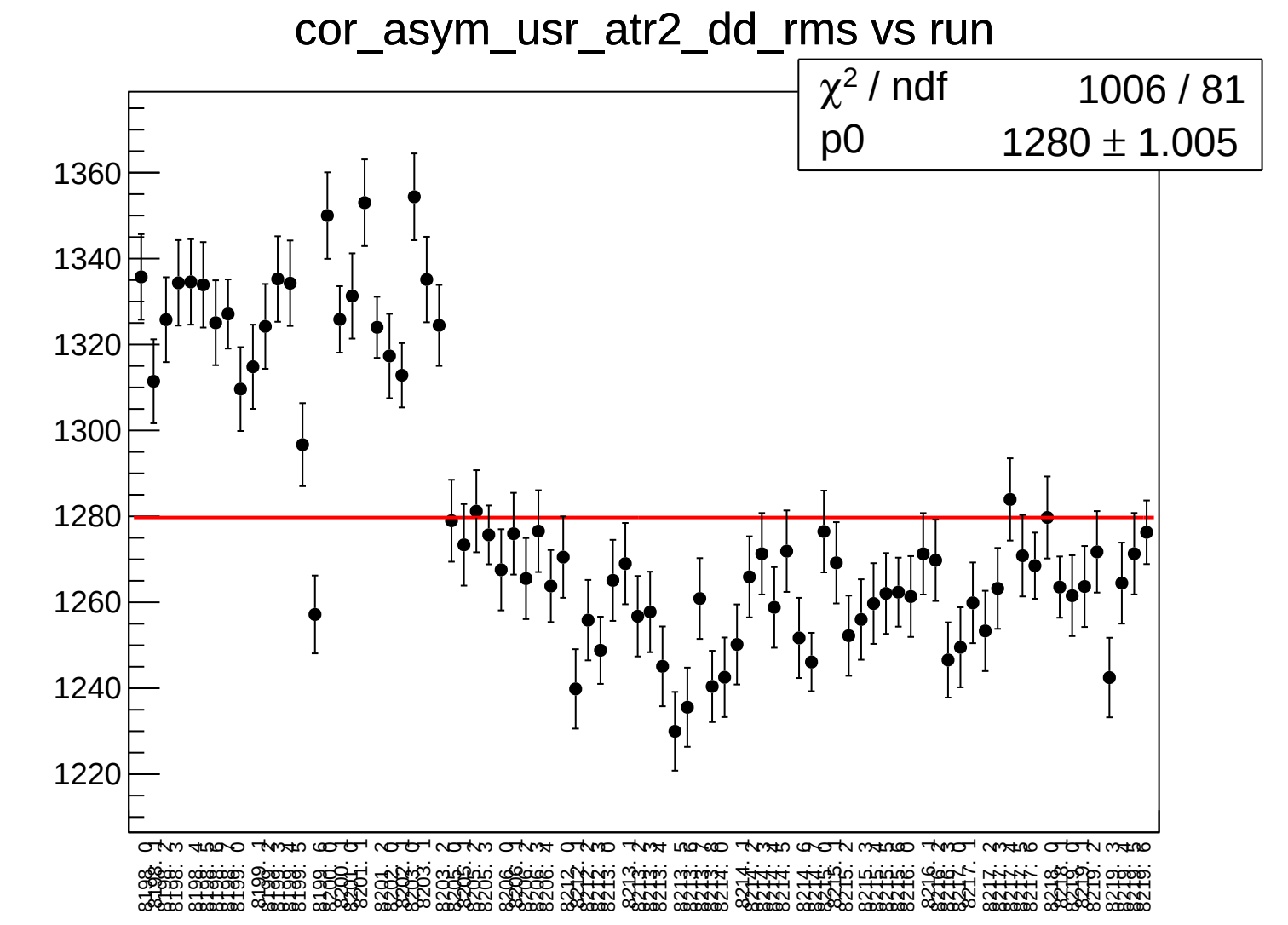

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 1006 / 81
p0 1280 ± 1.005
1360
1340
1320
1300
1280
1260
1240
1220

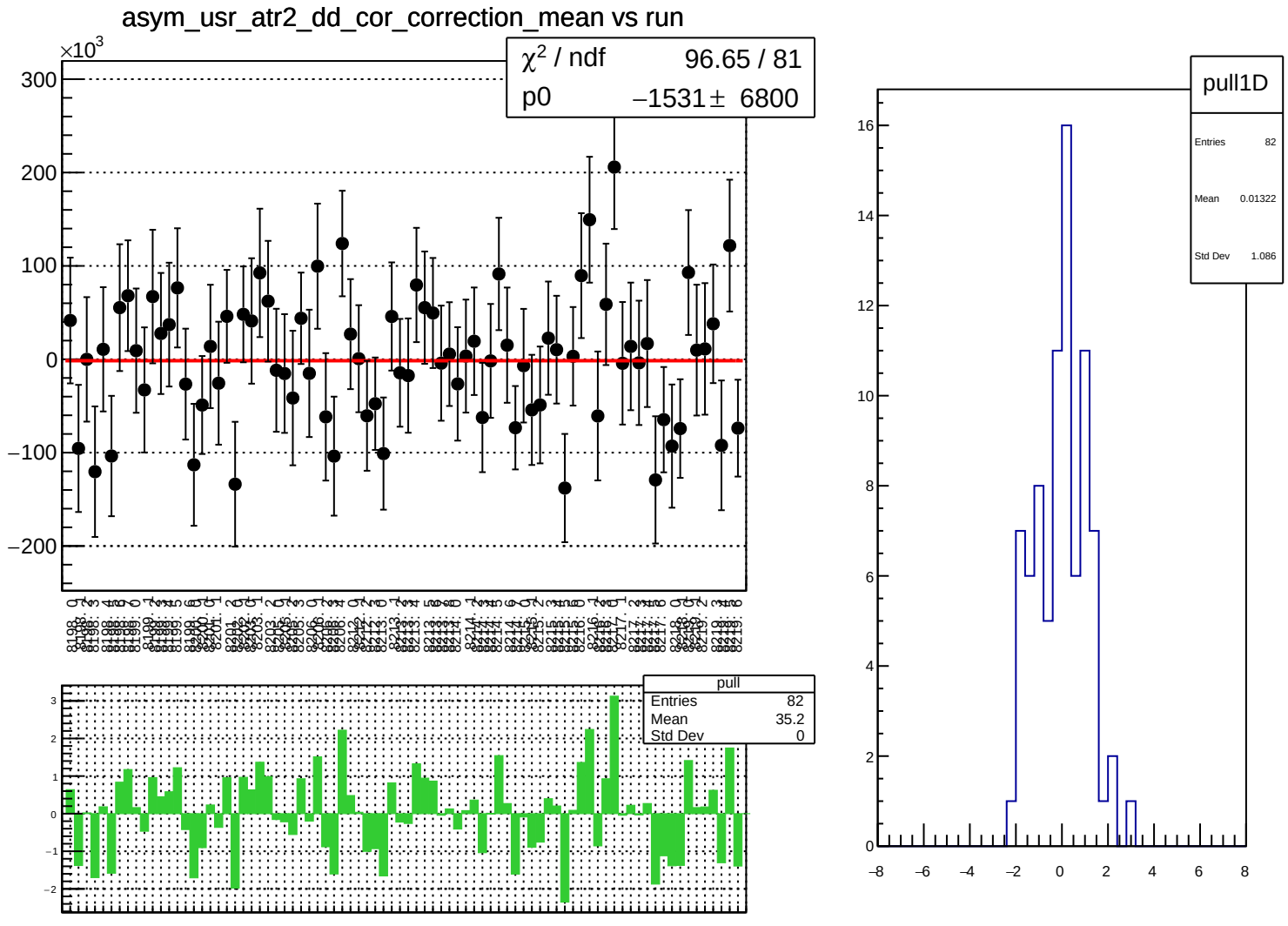

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.65 / 81
p0 −1531 ± 6800
300
200
100
0
−100
−200
pull
Entries 82
Mean 35.2
Std Dev 0
pull1D
Entries 82
Mean 0.01322
Std Dev 1.086

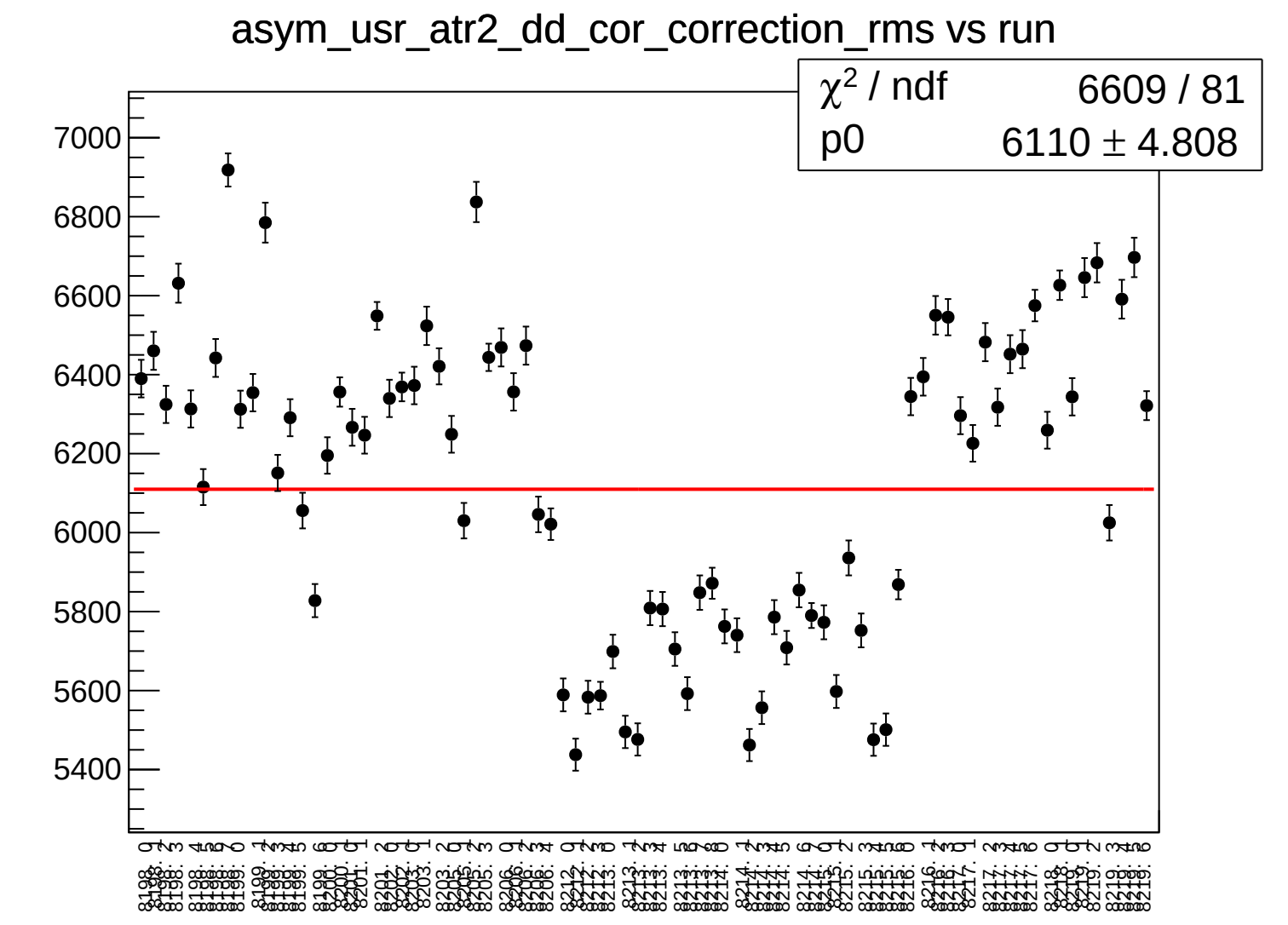

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 6609 / 81
p0 6110 ± 4.808
7000
6800
6600
6400
6200
6000
5800
5600
5400

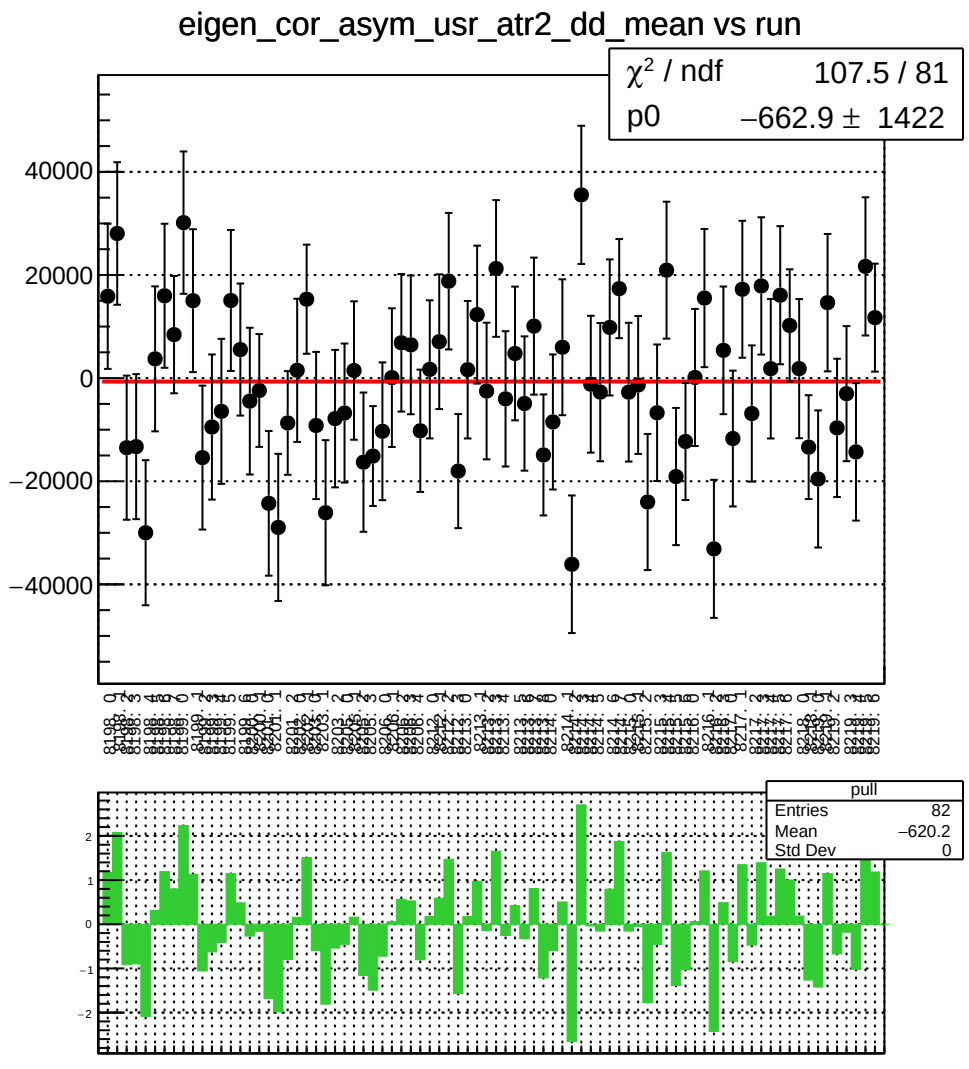

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 107.5 / 81
p0 −662.9 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −620.2
Std Dev 0
2
1
0
−1
−2

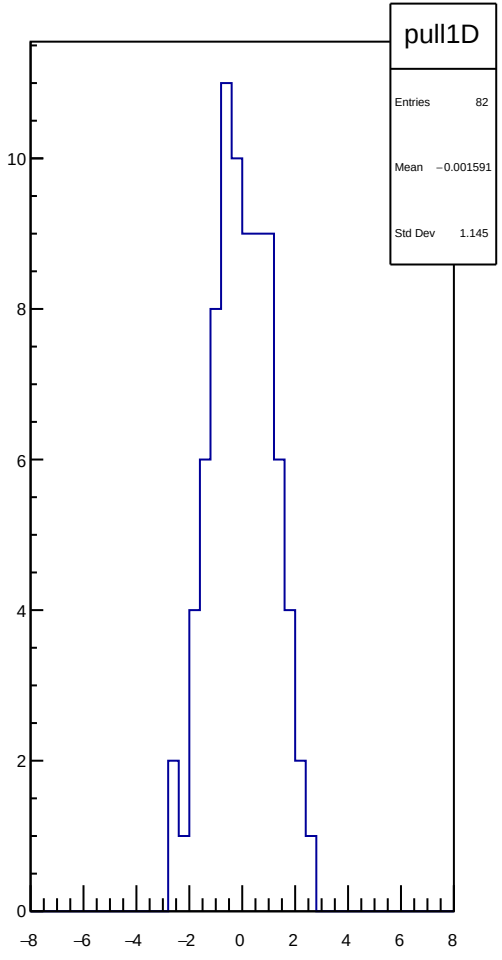

pull1D
Entries 82
Mean −0.001591
Std Dev 1.145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

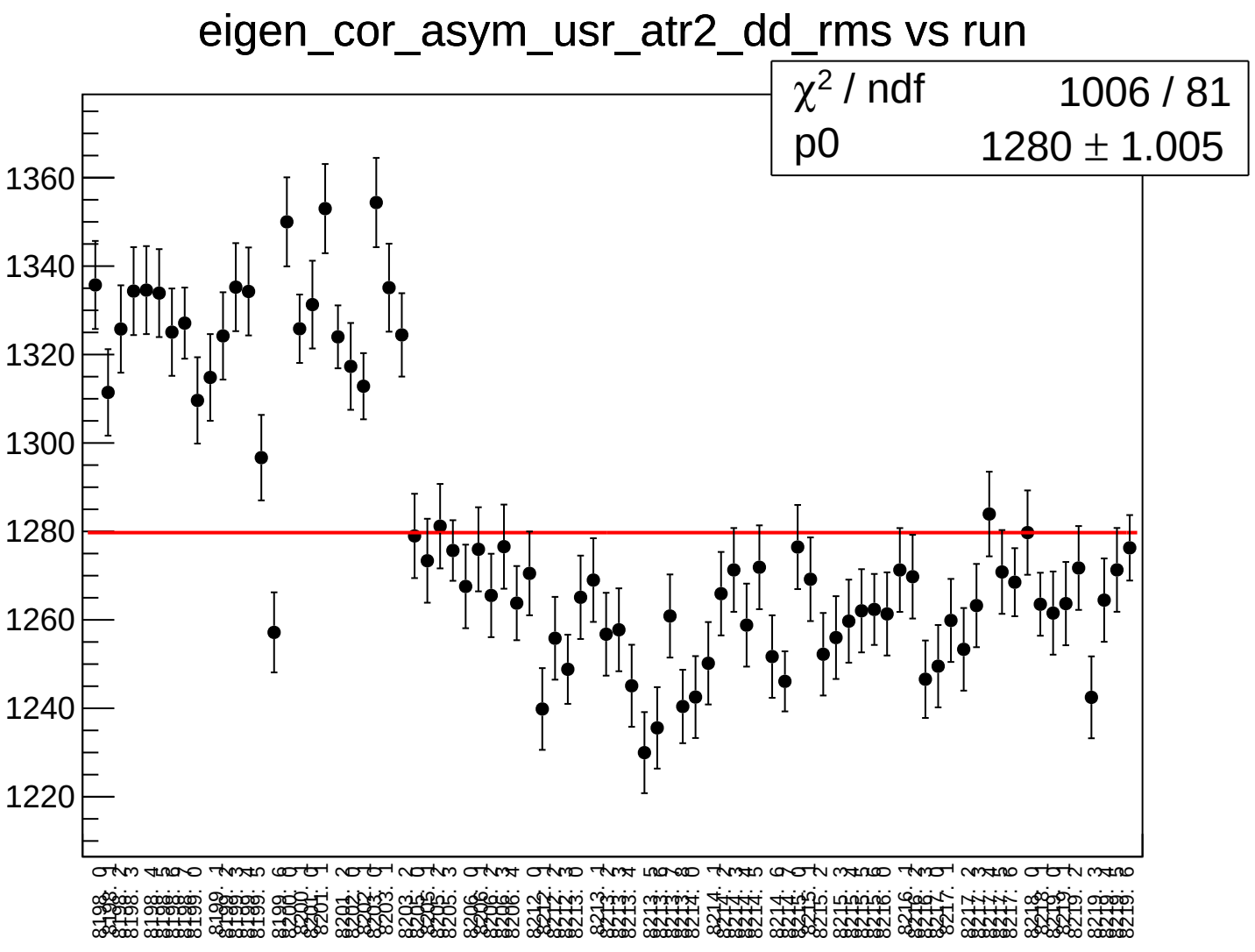

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1006 / 81
p0 1280 ± 1.005
1360
1340
1320
1300
1280
1260
1240
1220

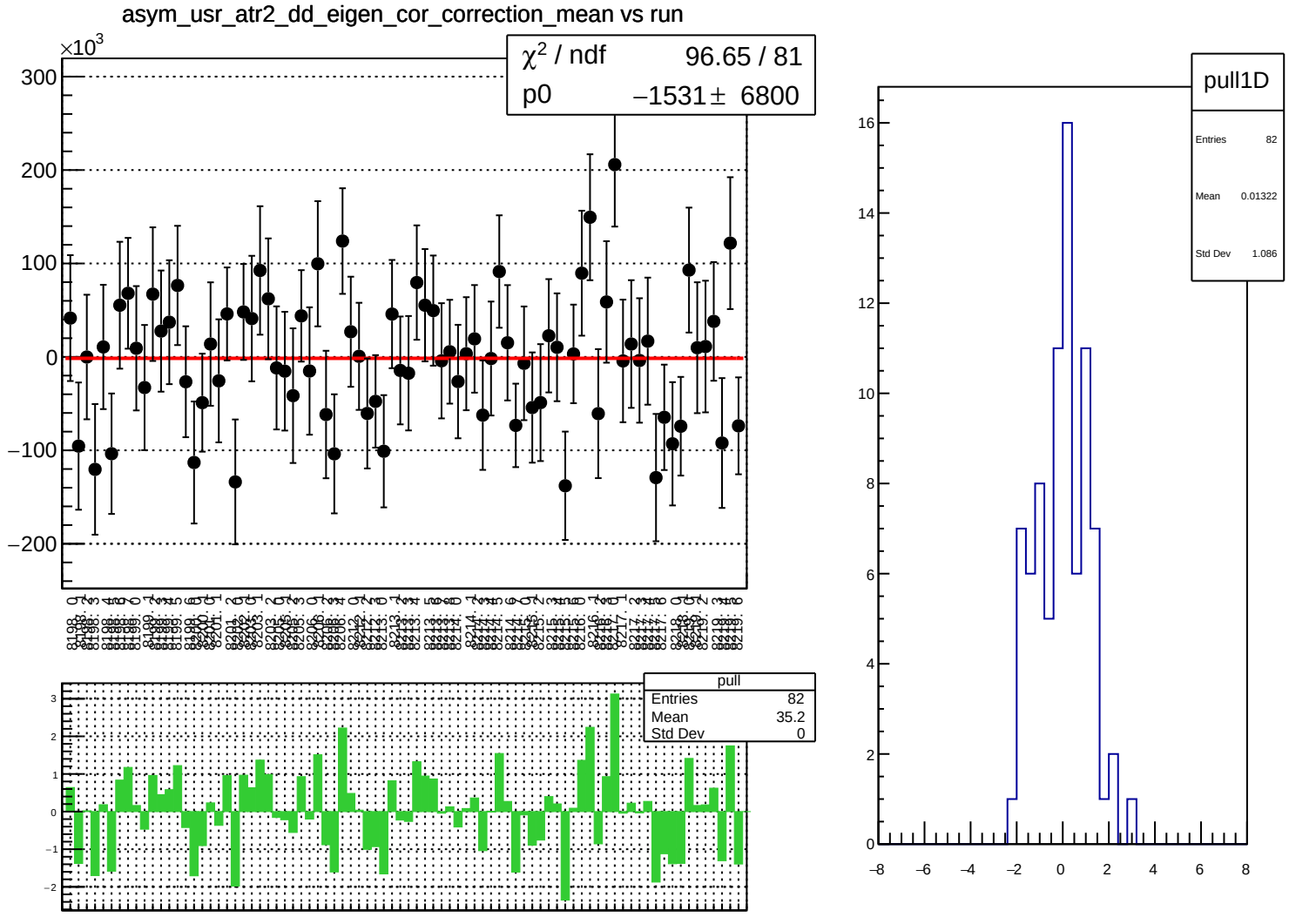

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.65 / 81
p0 −1531 ± 6800
pull
Entries 82
Mean 35.2
Std Dev 0
pull1D
Entries 82
Mean 0.01322
Std Dev 1.086

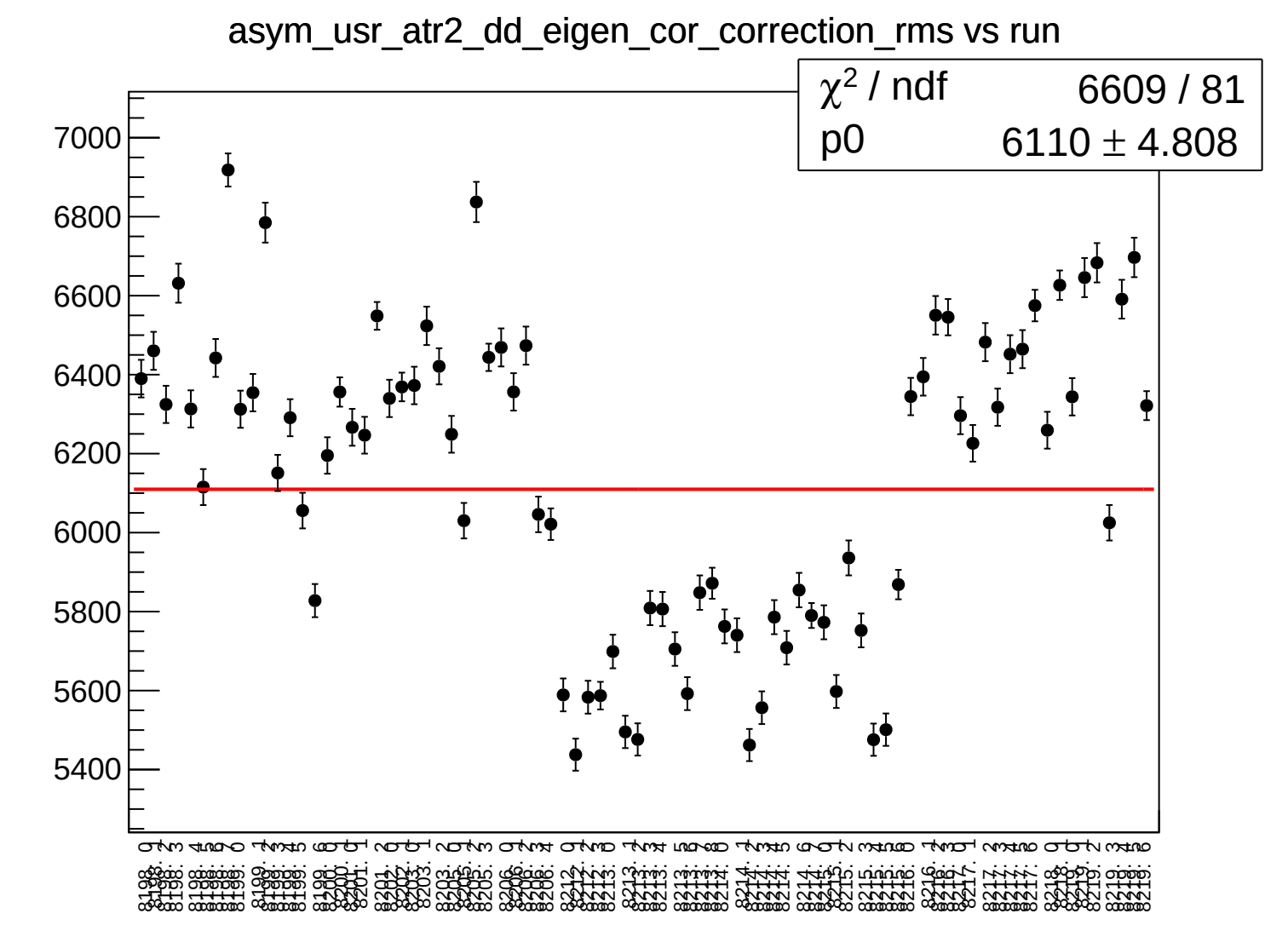

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 6609 / 81
p0 6110 ± 4.808
7000
6800
6600
6400
6200
6000
5800
5600
5400

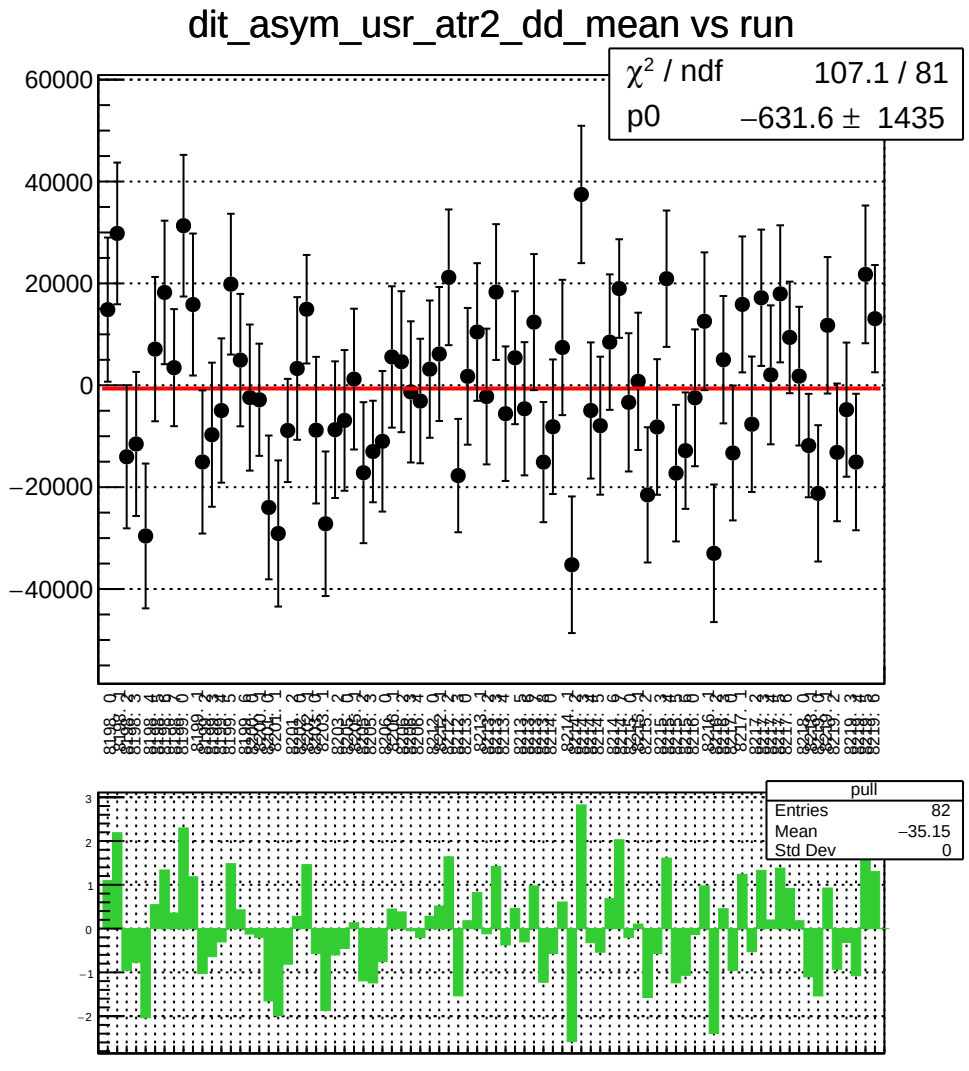

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 107.5 / 81
p0 −662.9 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −620.2
Std Dev 0
2
1
0
−1
−2

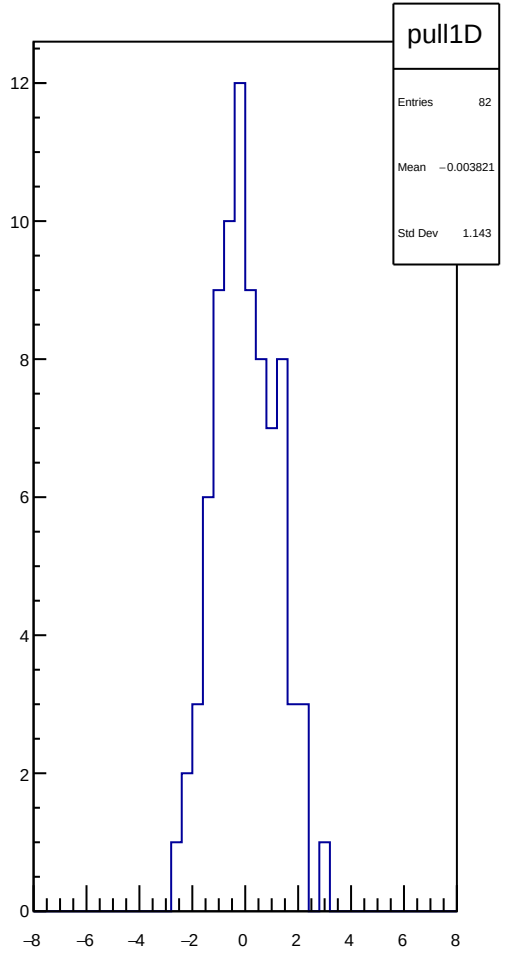

pull1D
Entries 82
Mean −0.001591
Std Dev 1.145
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

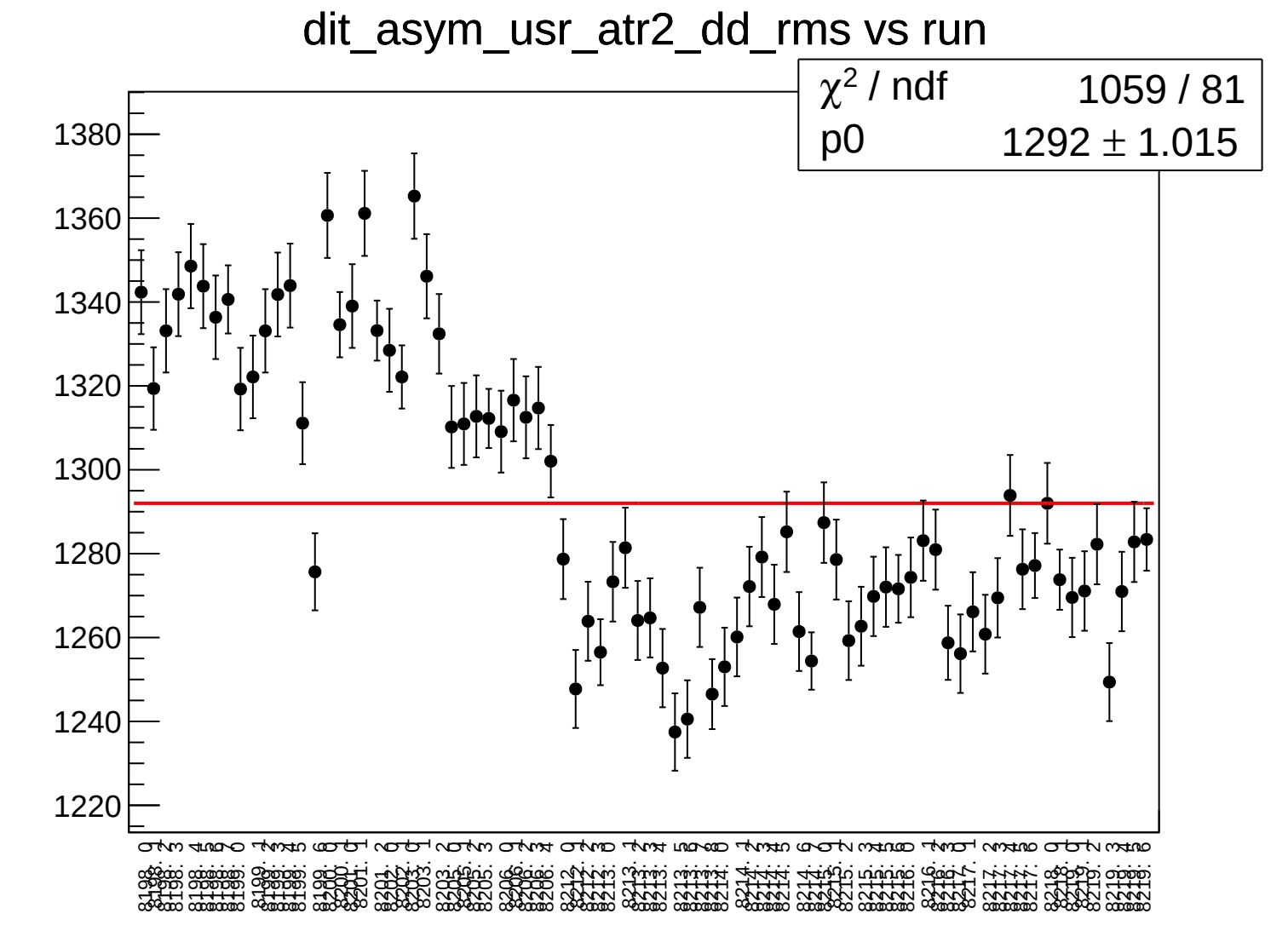

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1006 / 81
p0 1280 ± 1.005
1360
1340
1320
1300
1280
1260
1240
1220

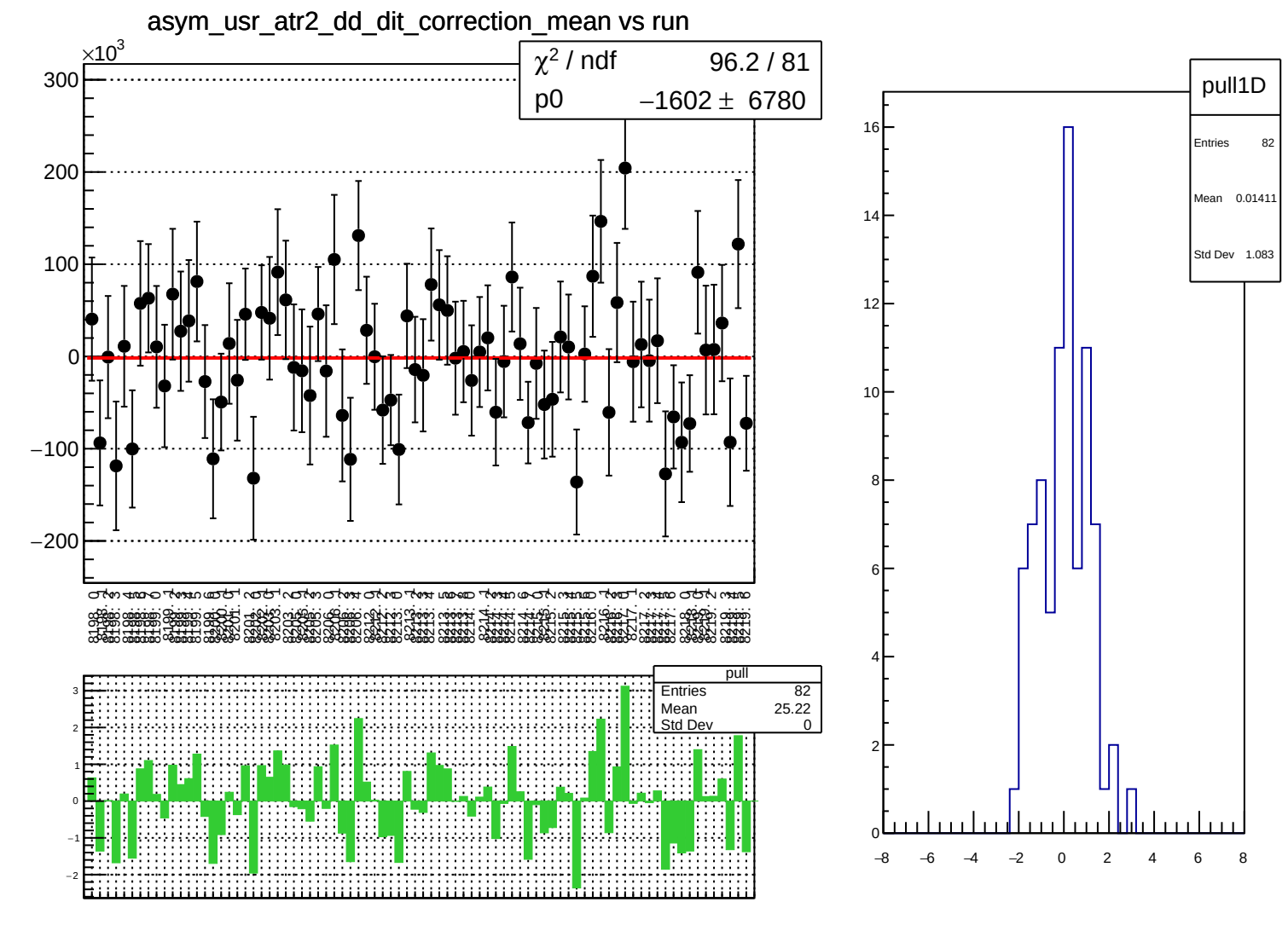

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.65 / 81
p0 −1531 ± 6800
pull
Entries 82
Mean 35.2
Std Dev 0
pull1D
Entries 82
Mean 0.01322
Std Dev 1.086

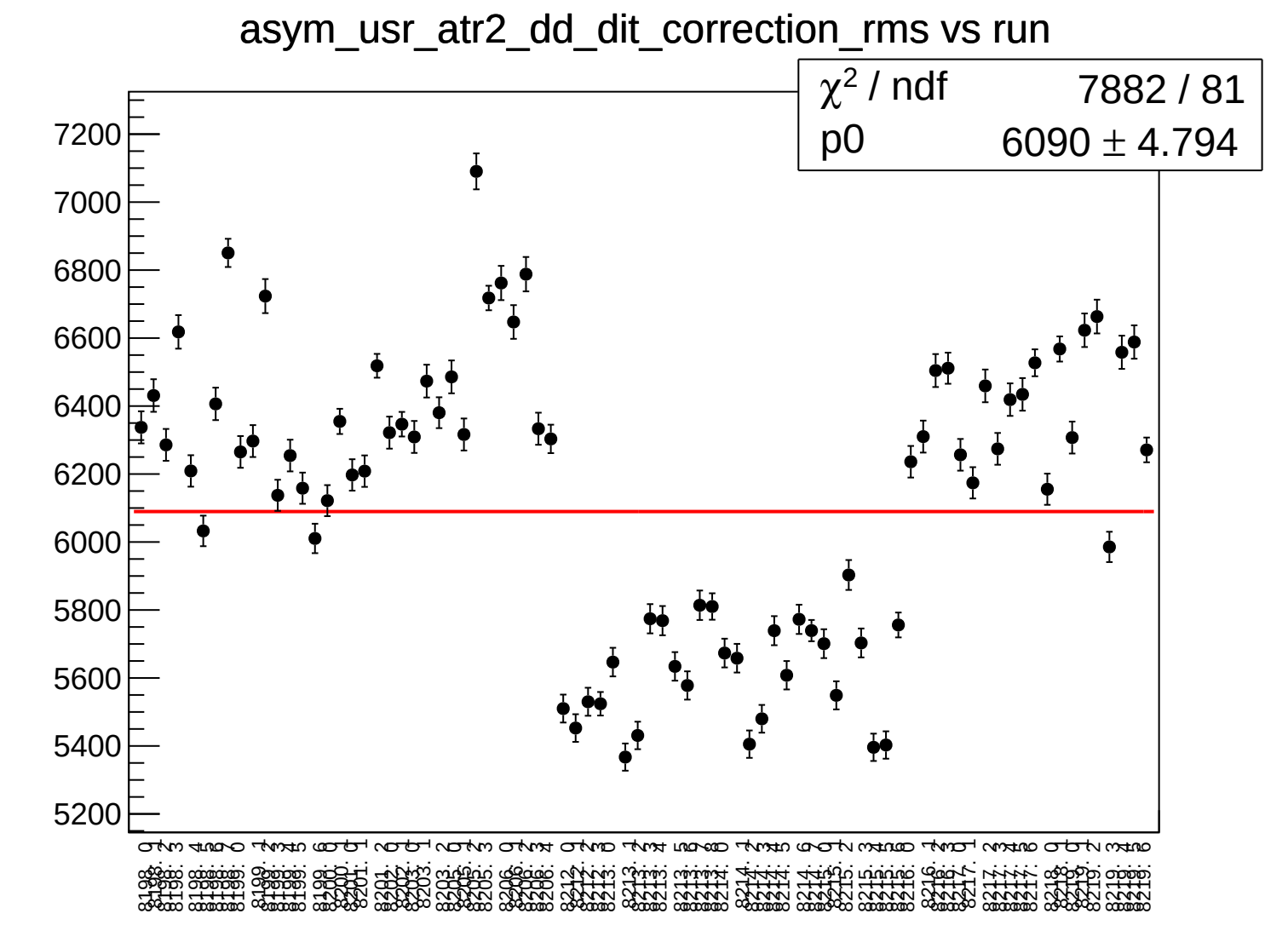

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6609 / 81
p0 6110 ± 4.808
7000
6800
6600
6400
6200
6000
5800
5600
5400

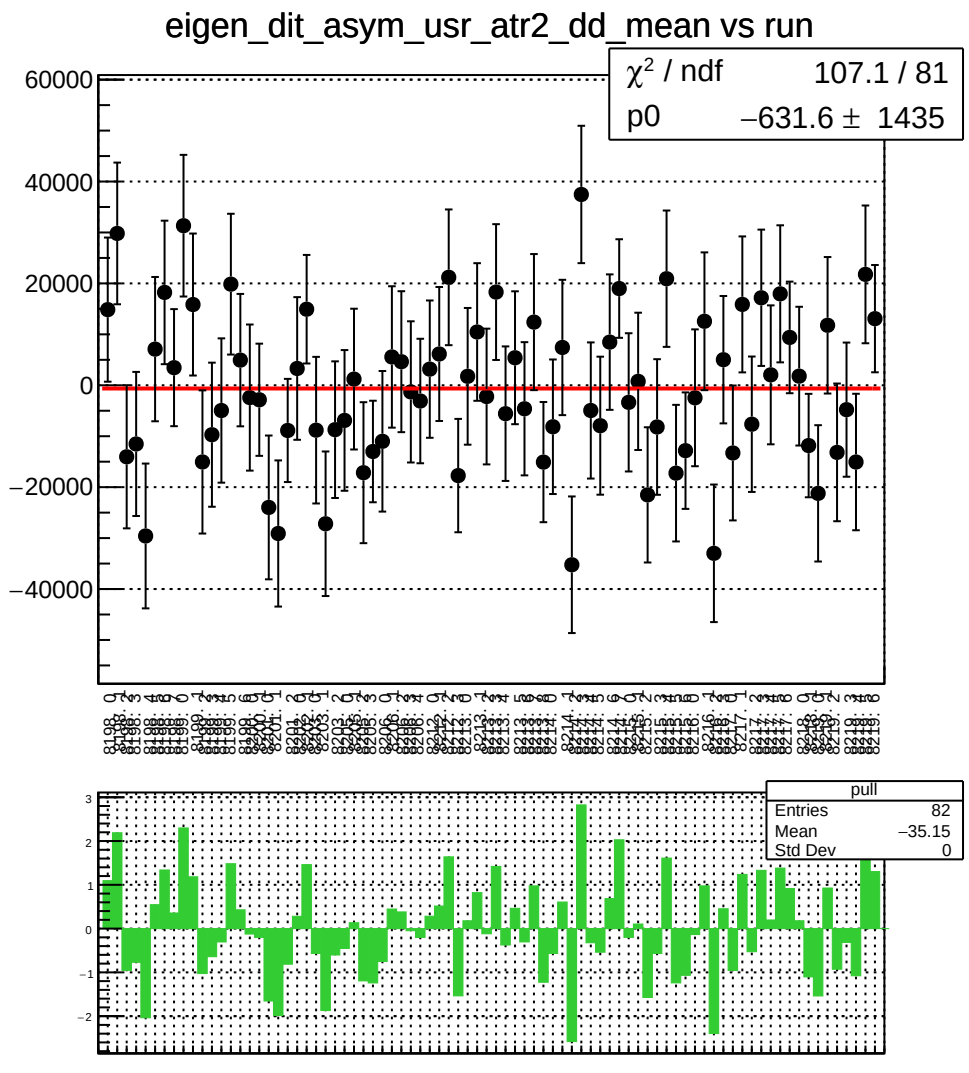

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 107.1 / 81
p0 −631.6 ± 1435
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −35.15
Std Dev 0
3
2
1
0
−1
−2

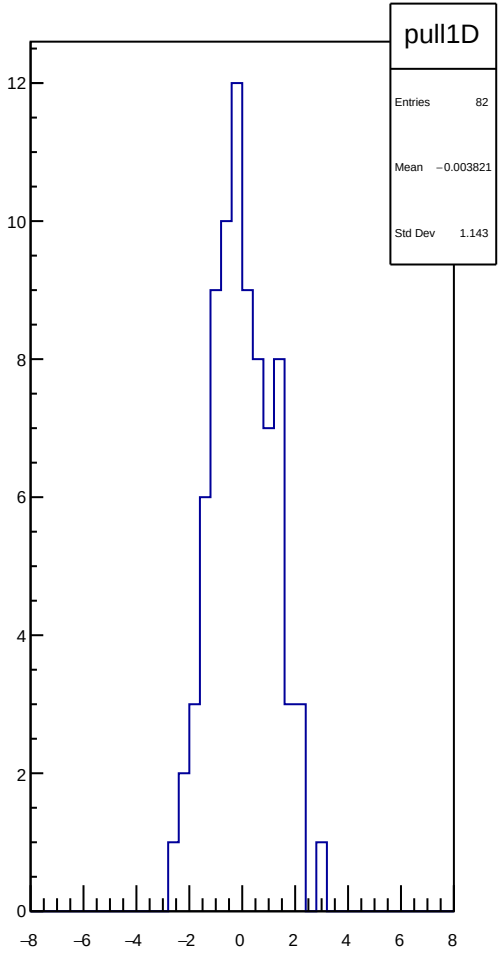

pull1D
Entries 82
Mean −0.003821
Std Dev 1.143
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

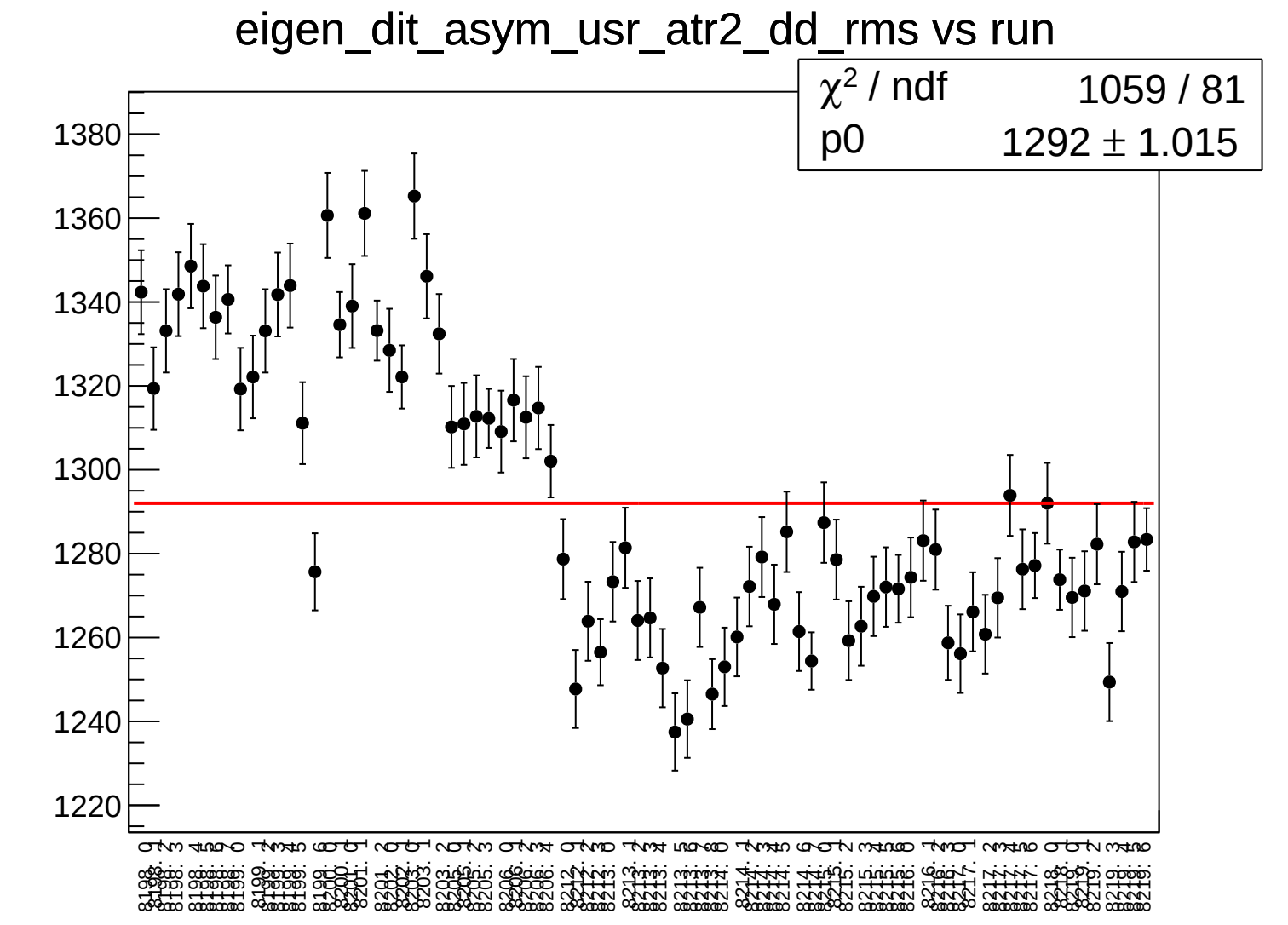

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1059 / 81
p0 1292 ± 1.015
1380
1360
1340
1320
1300
1280
1260
1240
1220

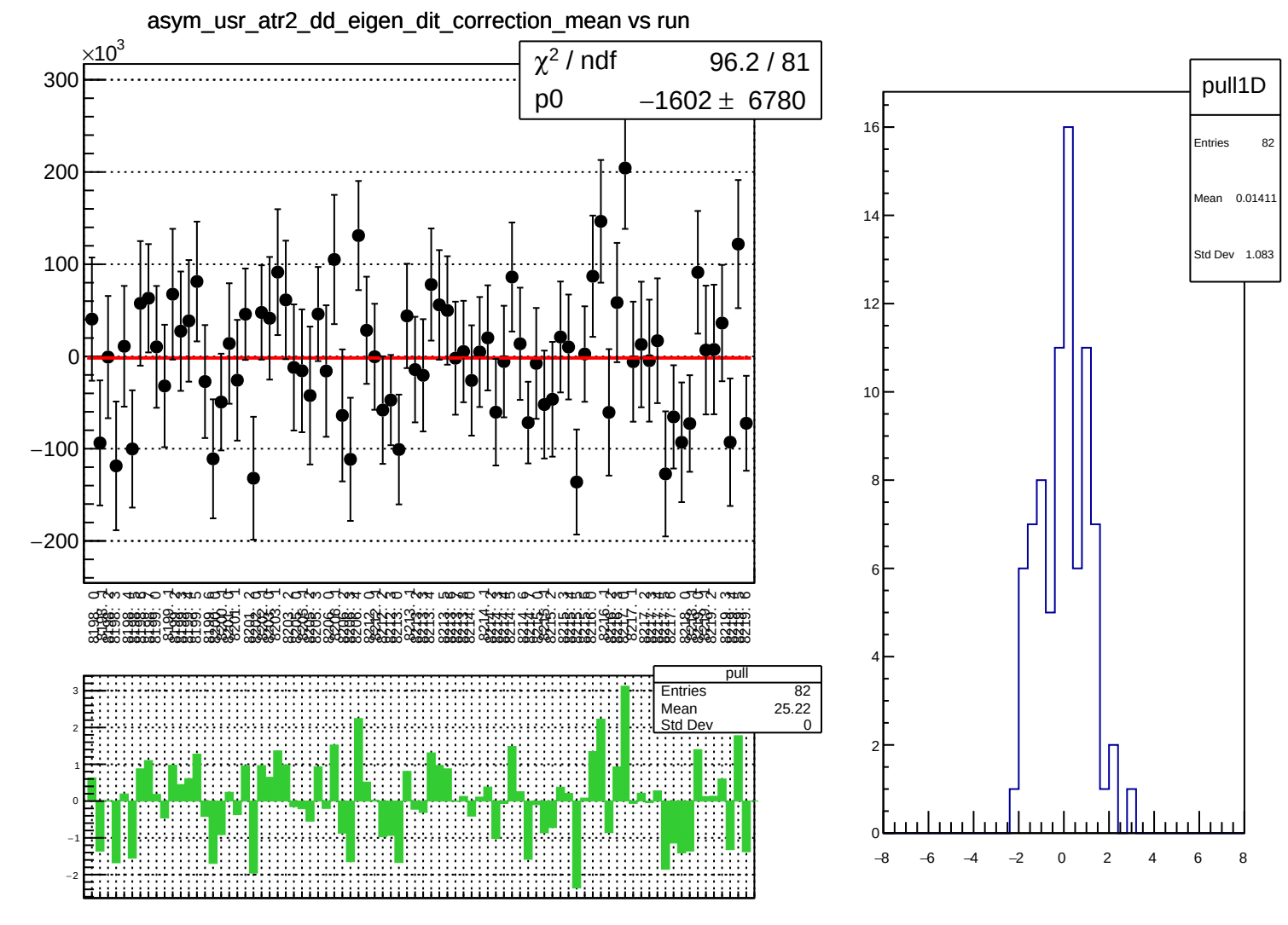

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.2 / 81
p0 −1602 ± 6780
300
200
100
0
−100
−200
pull
Entries 82
Mean 25.22
Std Dev 0
pull1D
Entries 82
Mean 0.01411
Std Dev 1.083

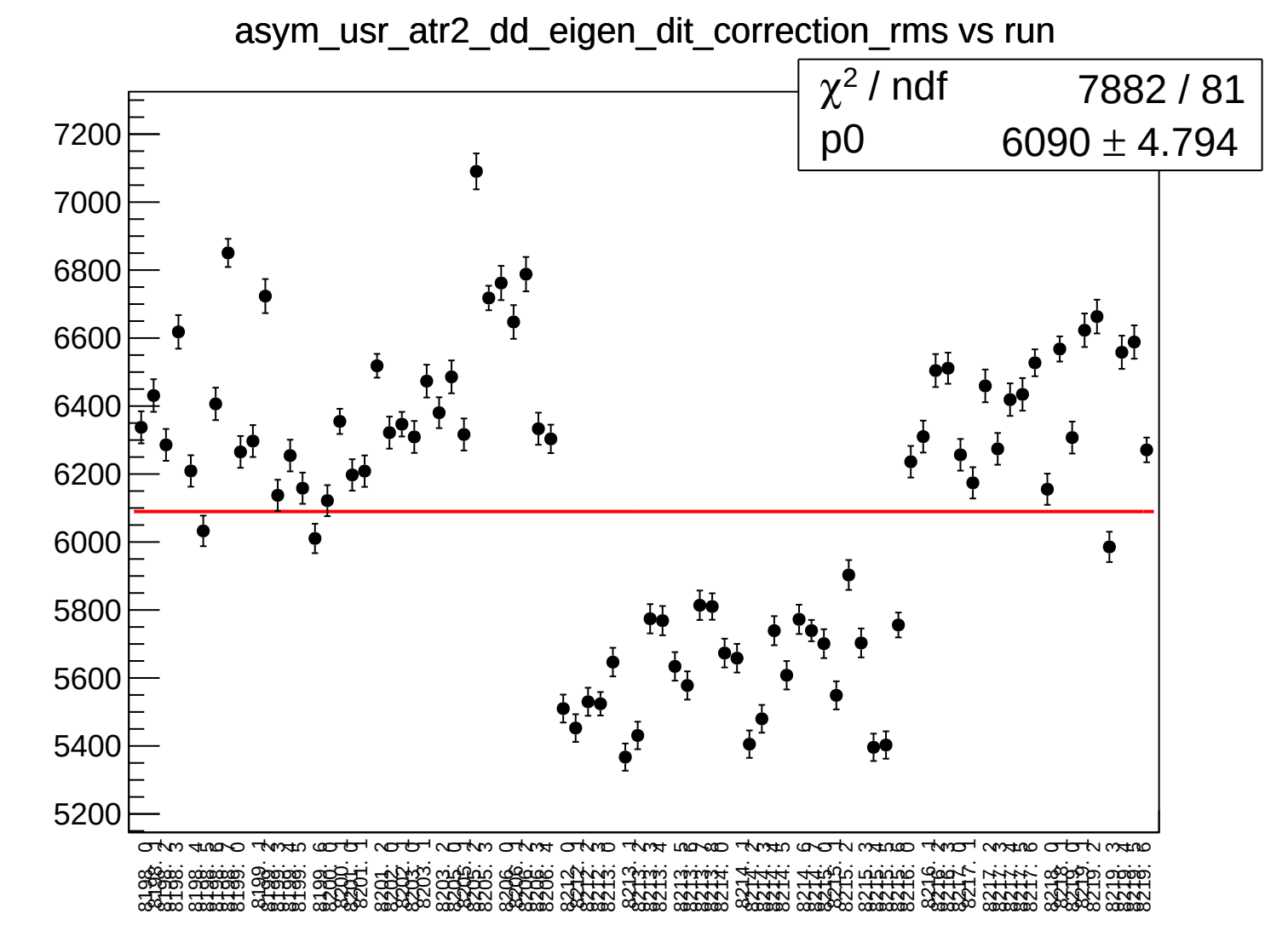

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 7882 / 81
p0 6090 ± 4.794
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

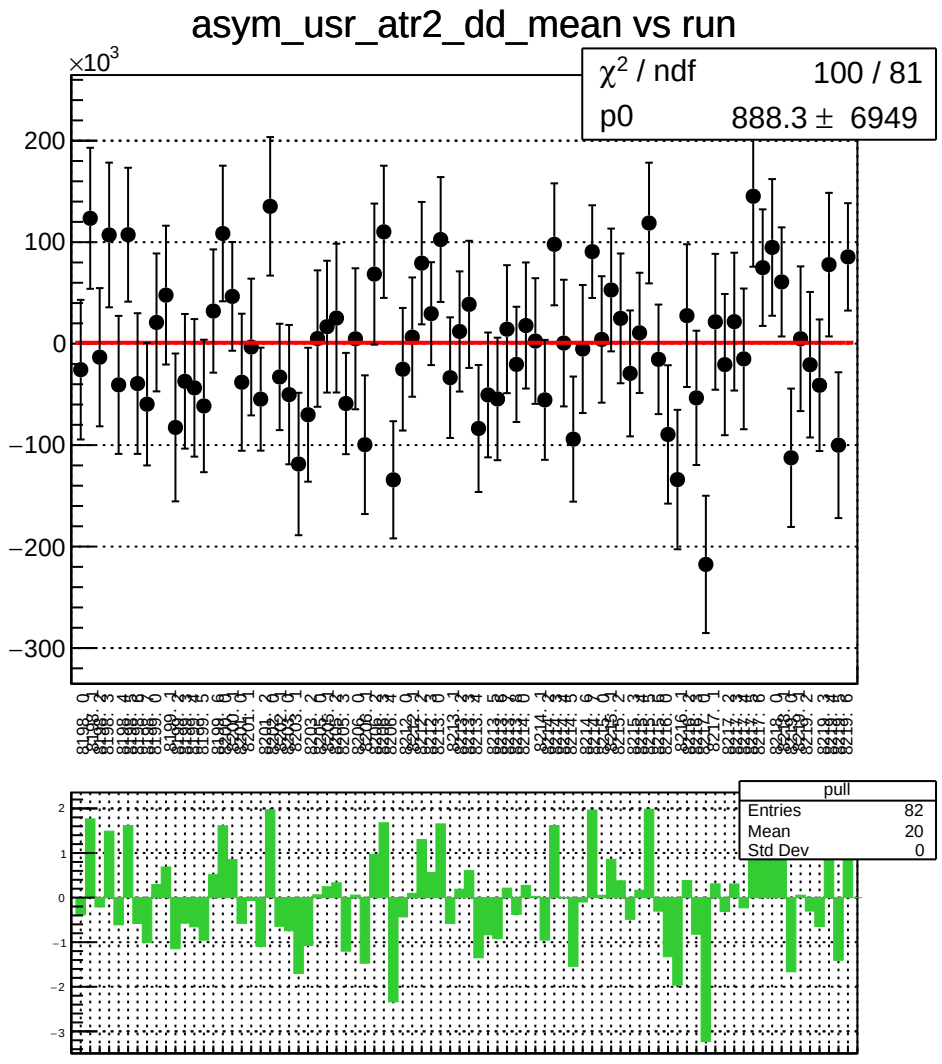

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 107.1 / 81
p0 −631.6 ± 1435
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −35.15
Std Dev 0
3
2
1
0
−1
−2

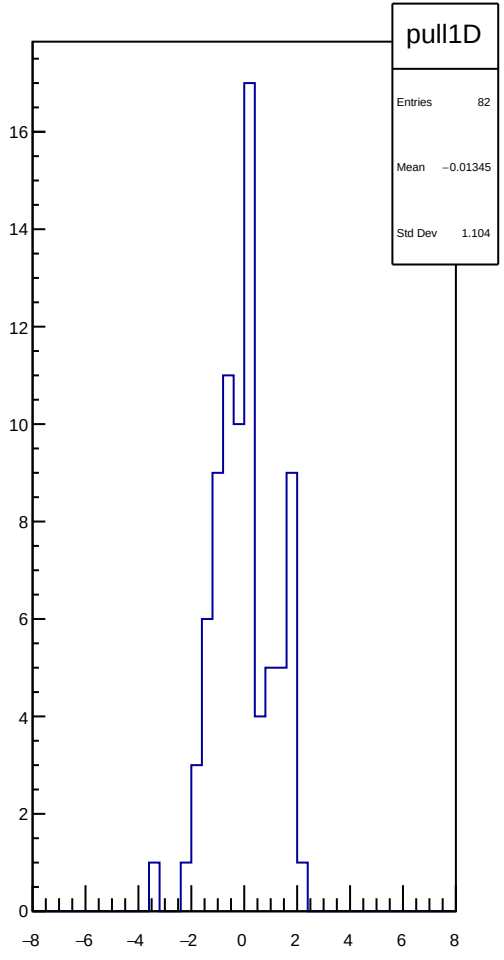

pull1D
Entries 82
Mean −0.003821
Std Dev 1.143
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

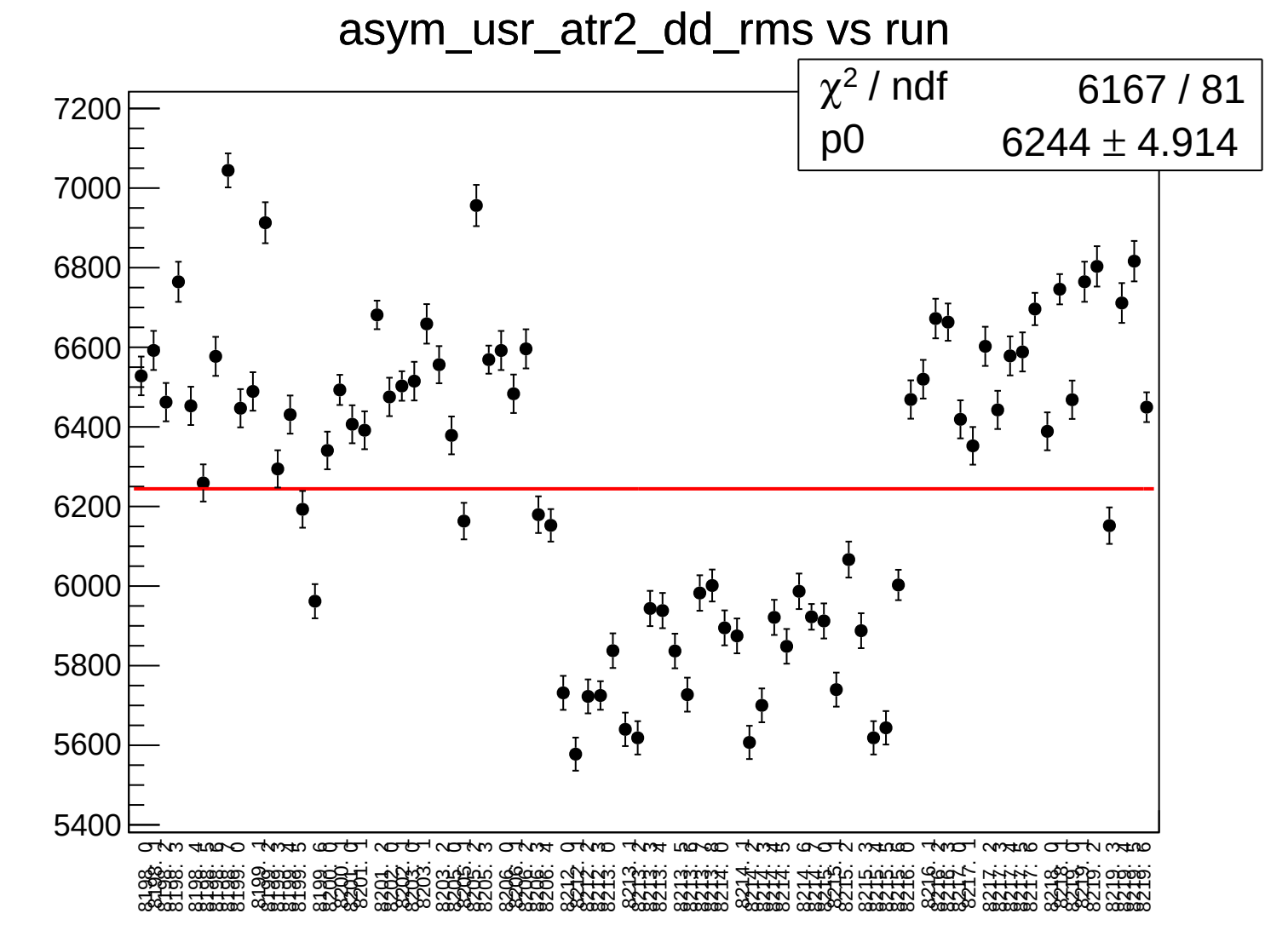

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1059 / 81
p0 1292 ± 1.015
1380
1360
1340
1320
1300
1280
1260
1240
1220

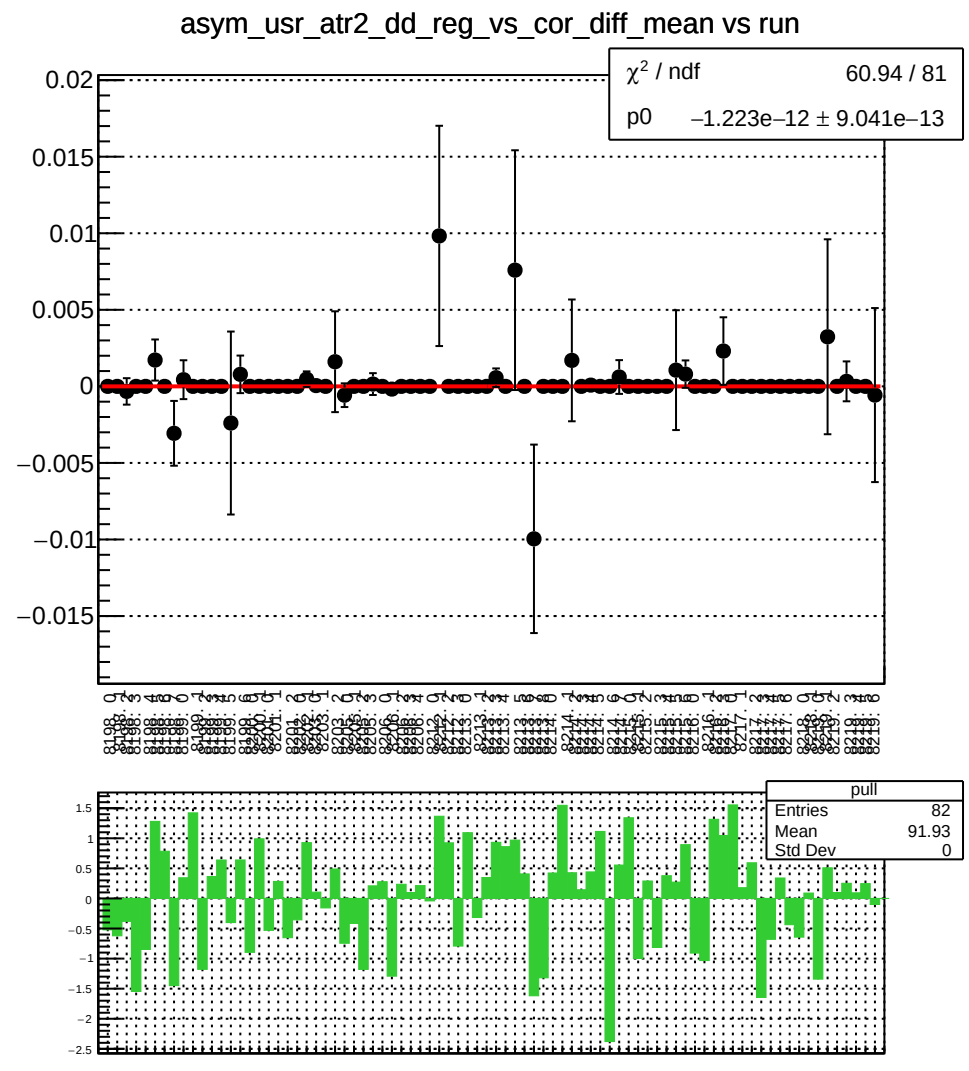

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.2 / 81
p0 −1602 ± 6780
300
200
100
0
−100
−200
pull
Entries 82
Mean 25.22
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01411
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

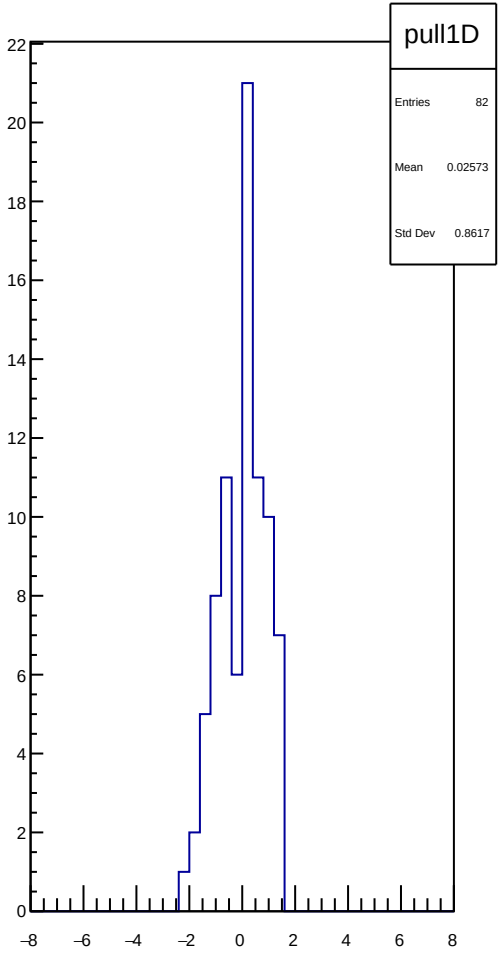

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7882 / 81
p0 6090 ± 4.794
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

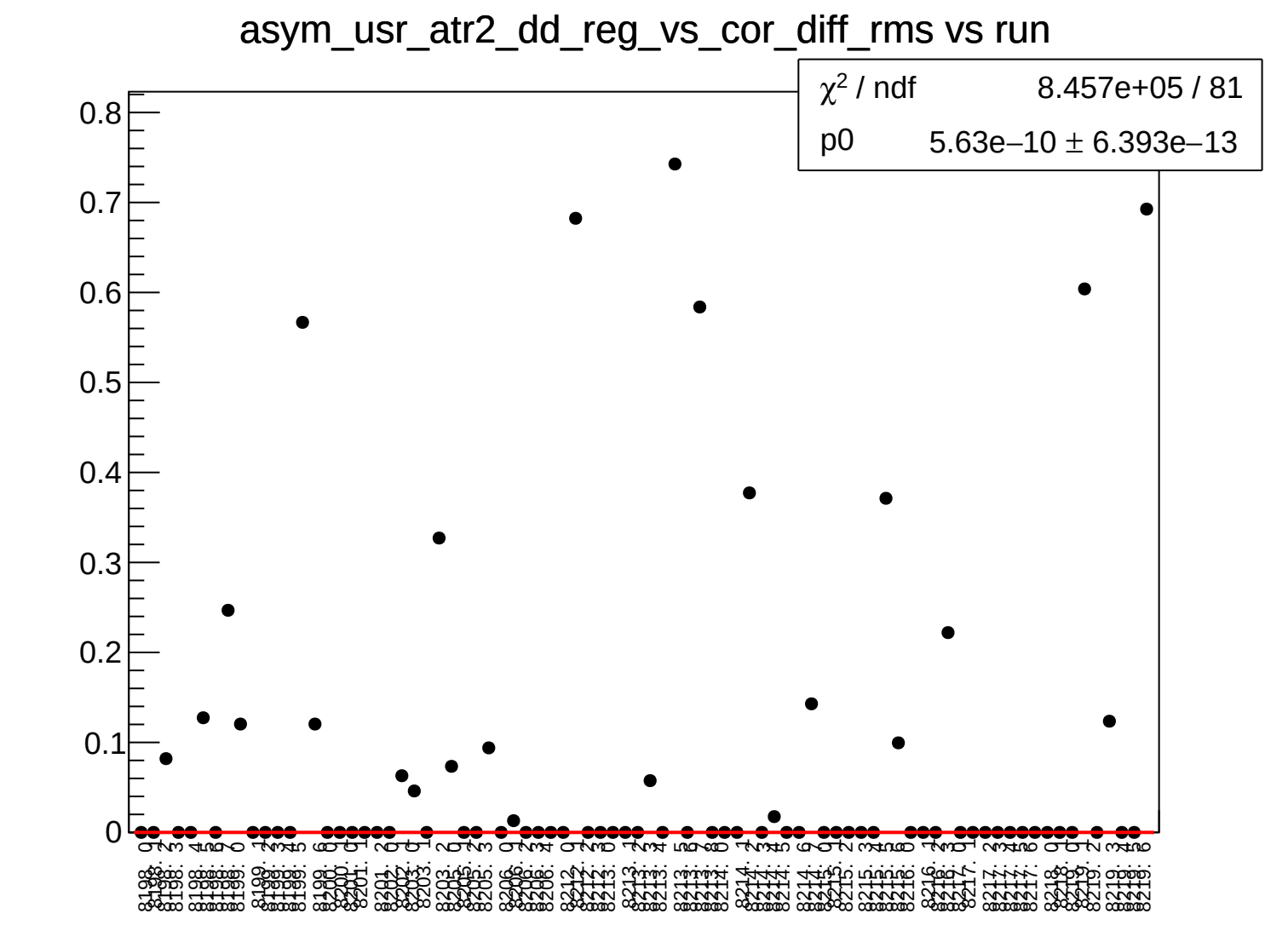

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 100 / 81
p0 888.3 ± 6949
200
100
0
−100
−200
−300
pull
Entries 82
Mean 20
Std Dev 0
2
1
0
−1
−2
−3

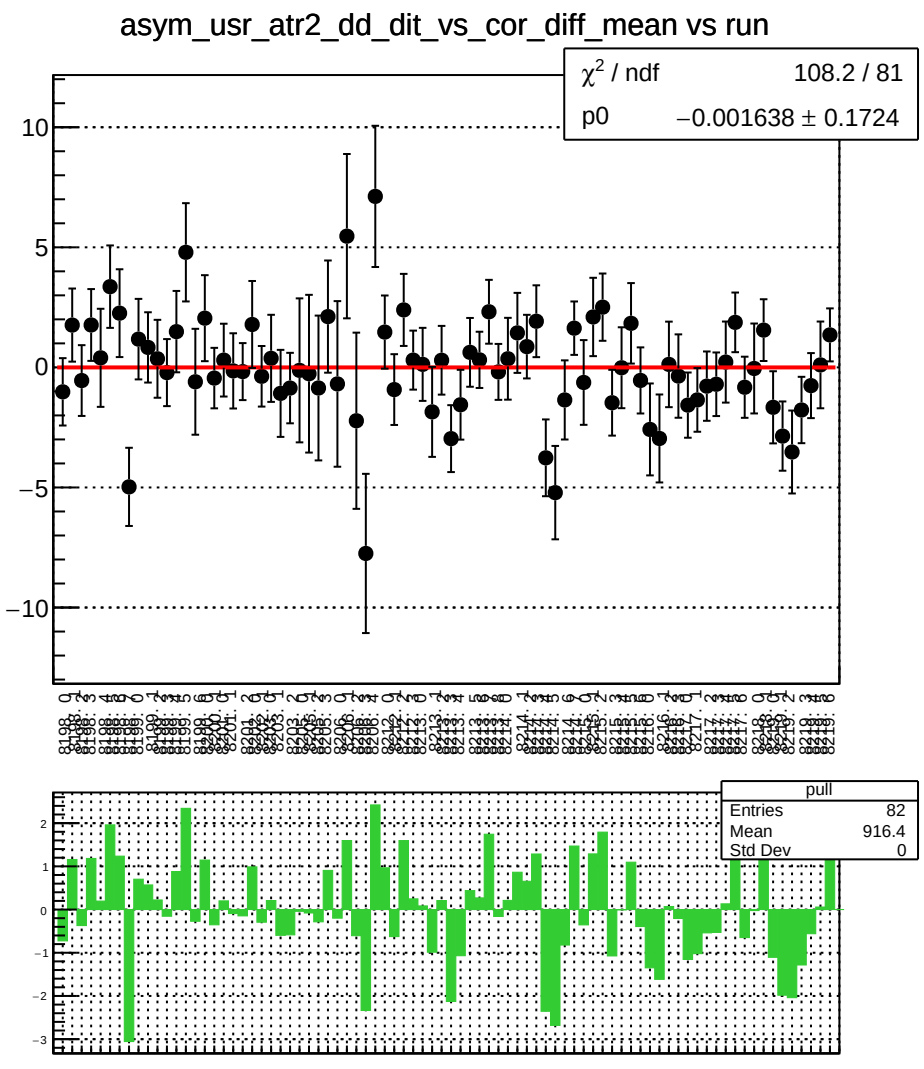

pull1D
Entries 82
Mean −0.01345
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

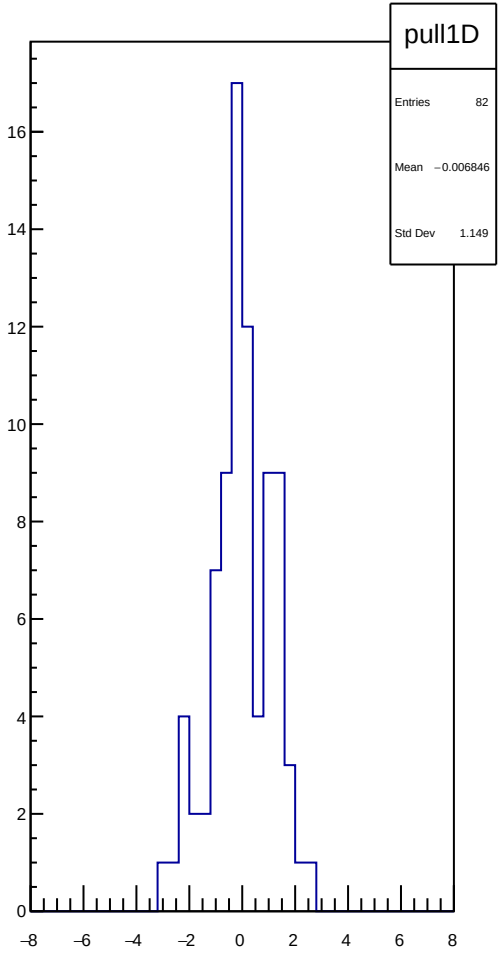

asym_usr_atr2_dd_rms vs run
χ² / ndf 6167 / 81
p0 6244 ± 4.914
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

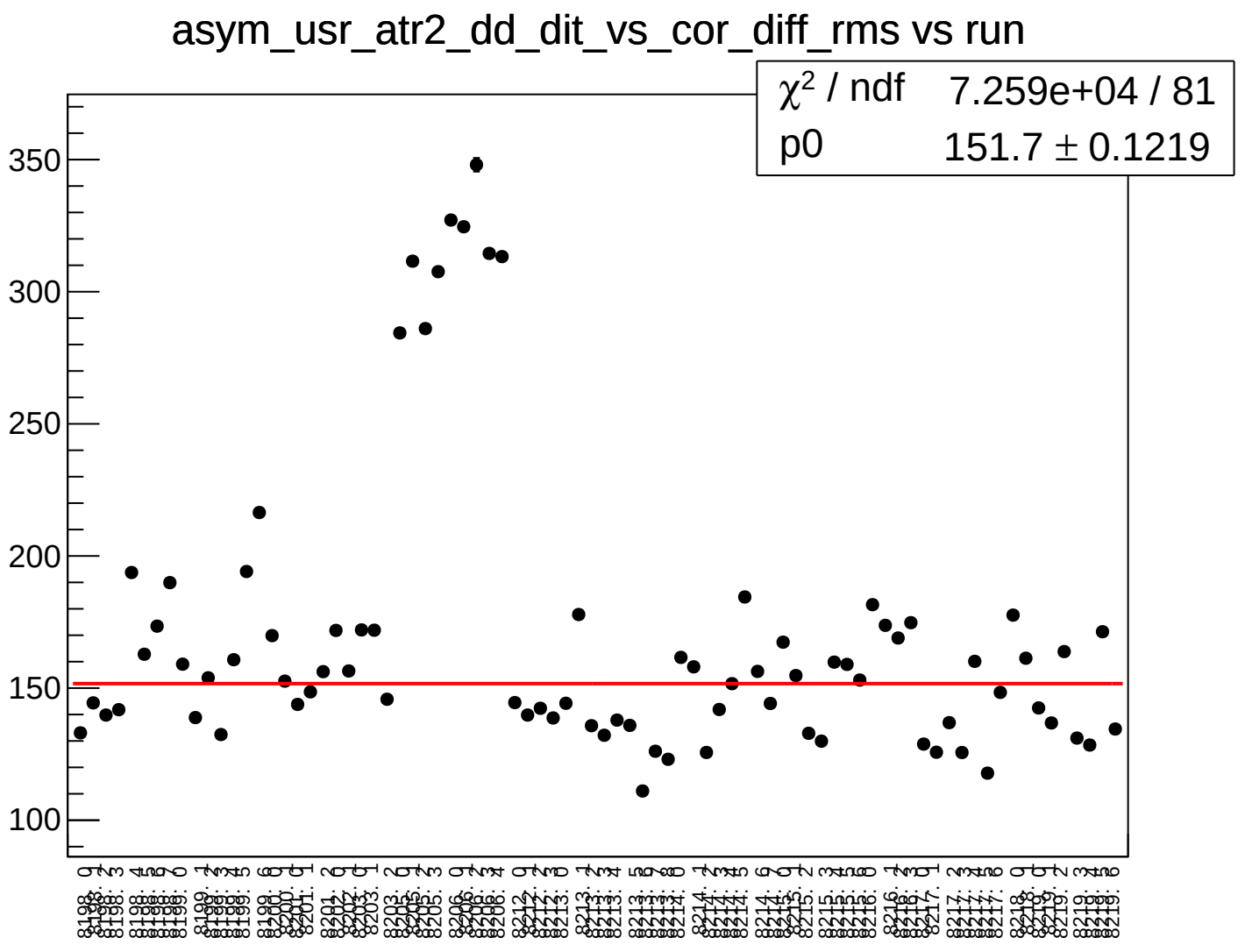

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 60.94 / 81
p0 −1.223e−12 ± 9.041e−13
pull
Entries 82
Mean 91.93
Std Dev 0

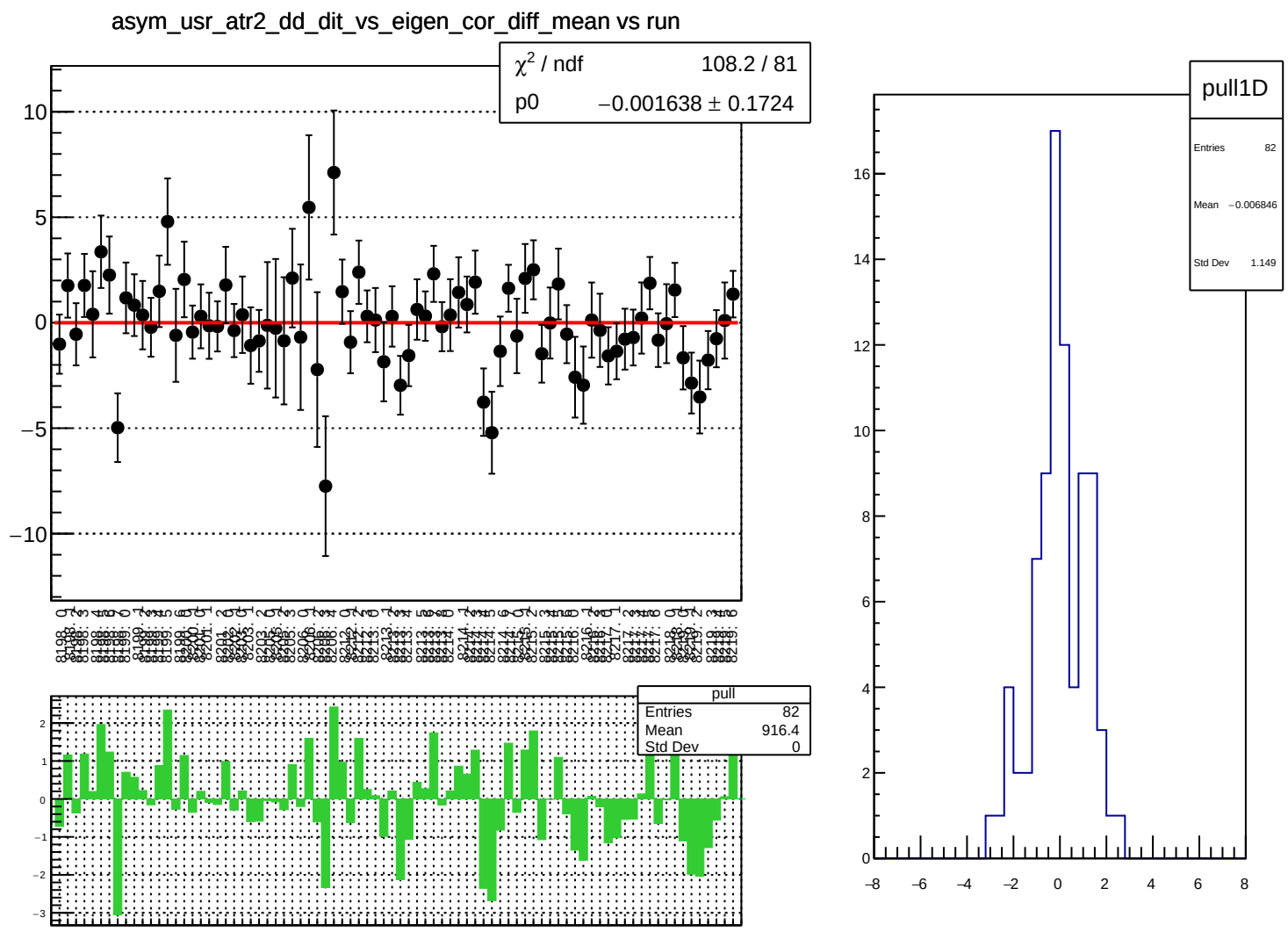

pull1D
Entries 82
Mean 0.02573
Std Dev 0.8617

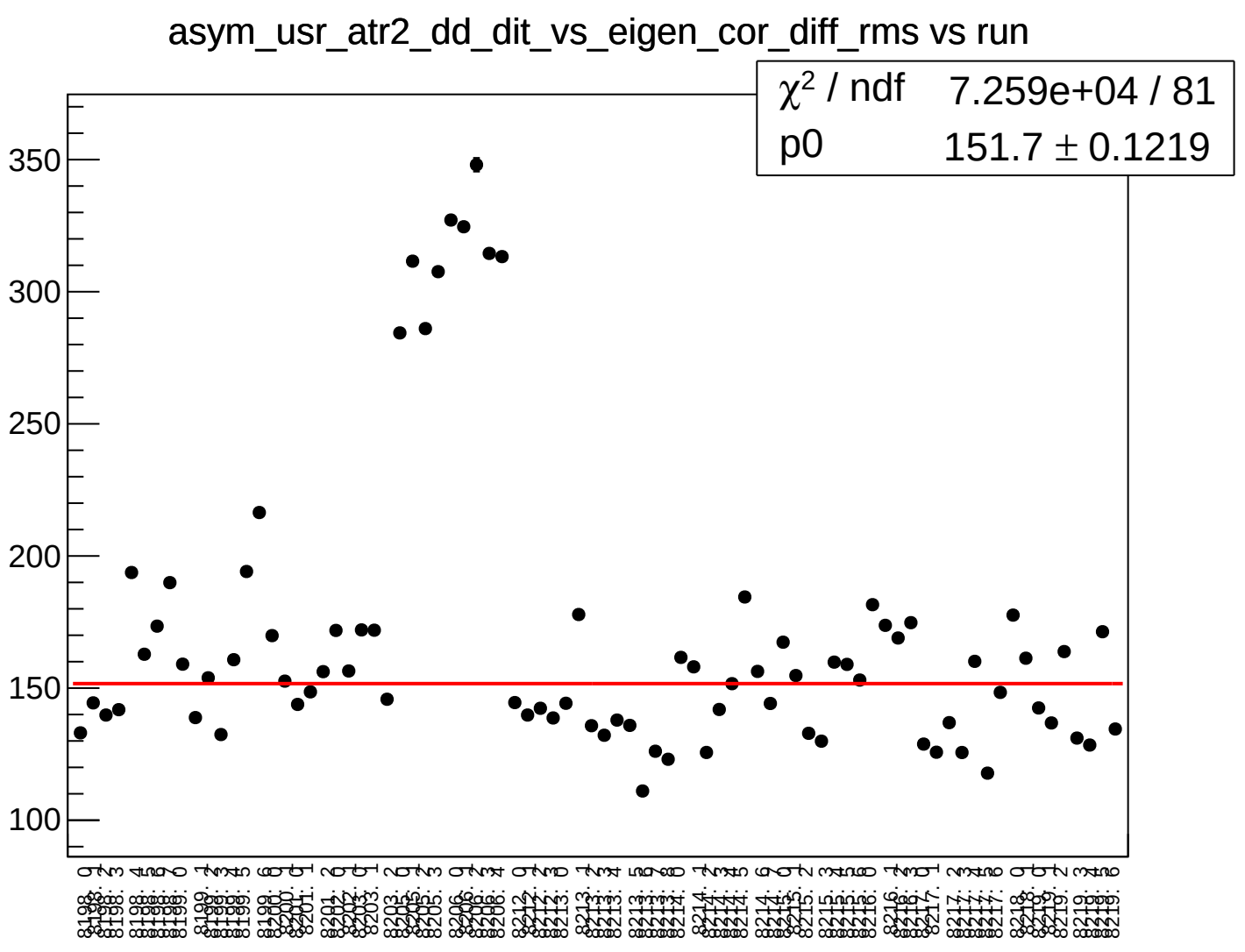

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.457e+05 / 81
p0 5.63e−10 ± 6.393e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

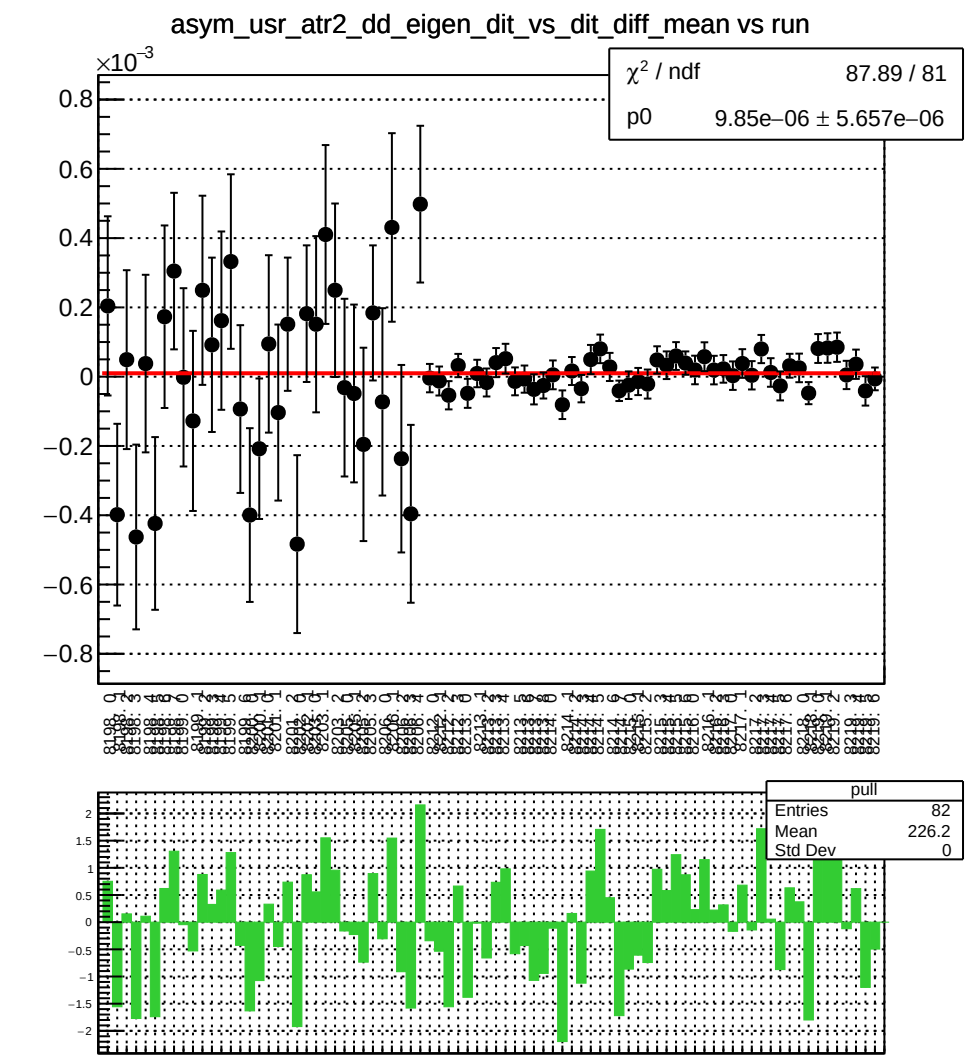

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.2 / 81
p0 −0.001638 ± 0.1724
pull
Entries 82
Mean 916.4
Std Dev 0

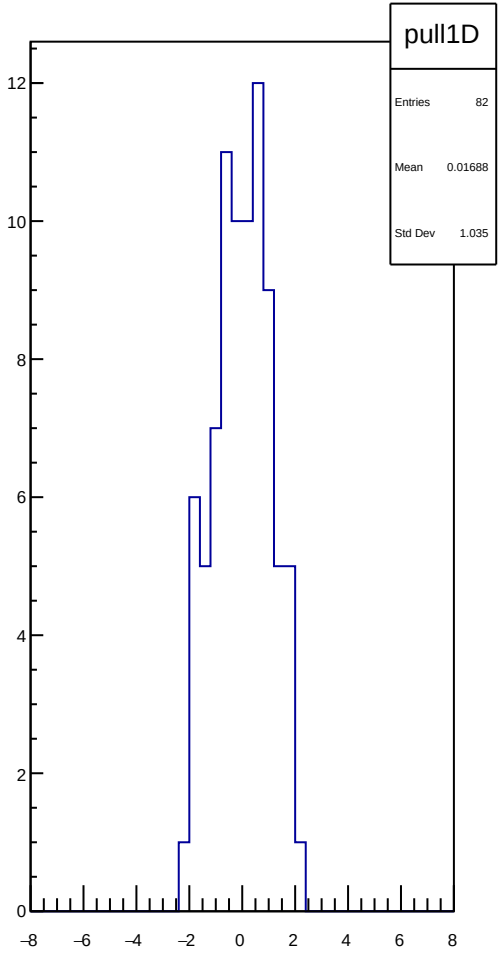

pull1D
Entries 82
Mean −0.006846
Std Dev 1.149

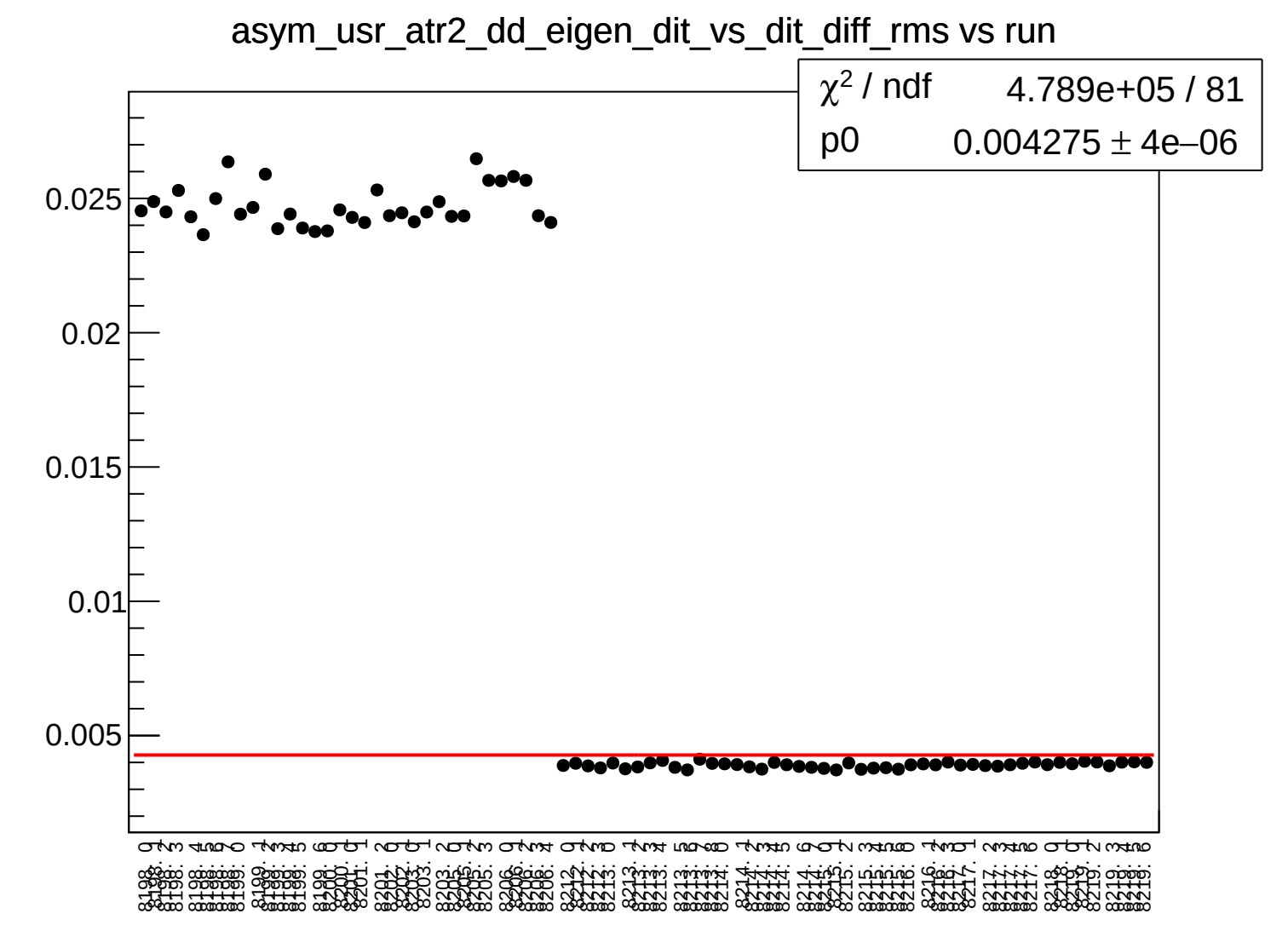

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.259e+04 / 81
p0 151.7 ± 0.1219
350
300
250
200
150
100

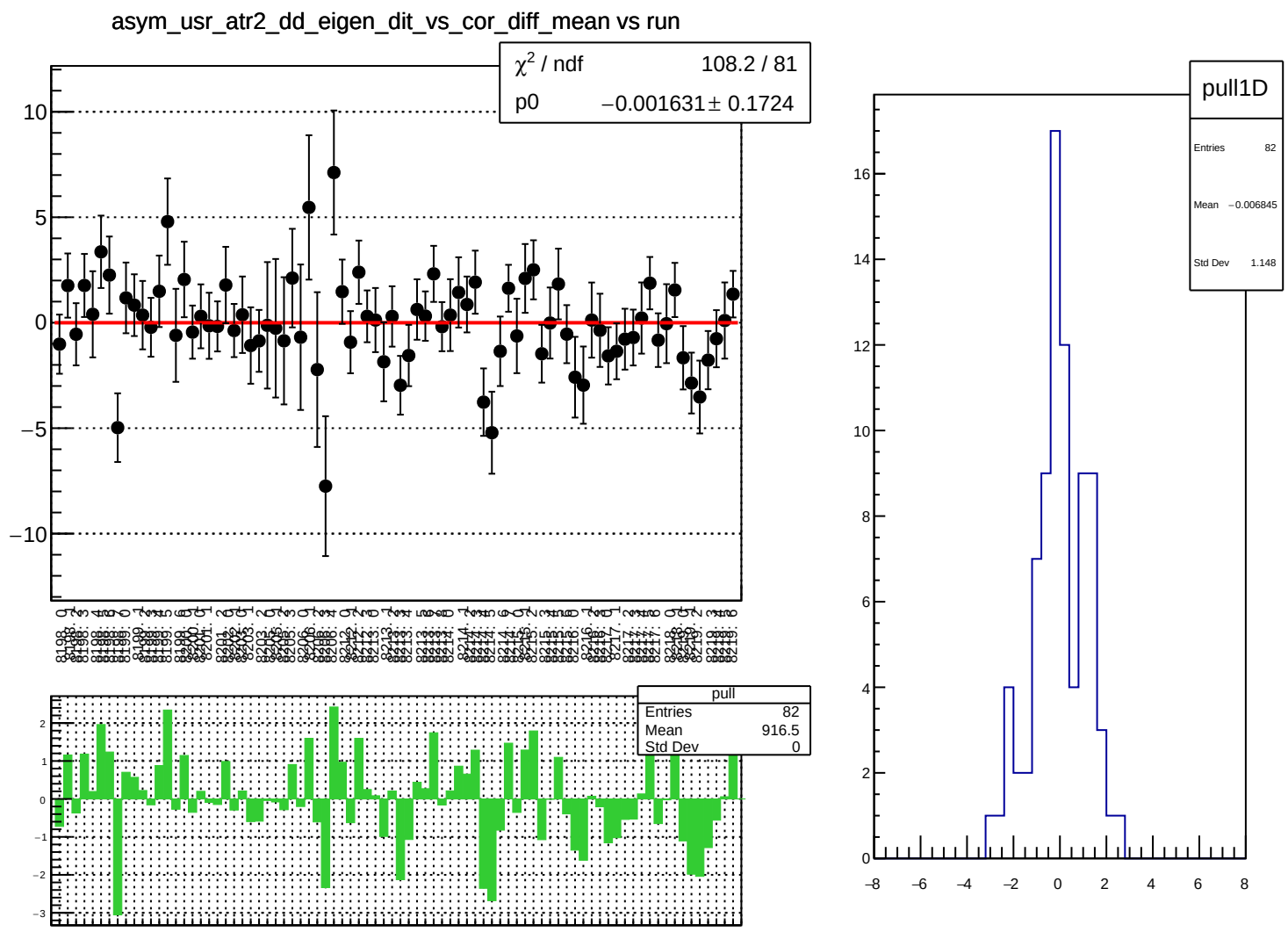

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.2 / 81
p0 −0.001638 ± 0.1724
pull
Entries 82
Mean 916.4
Std Dev 0
pull1D
Entries 82
Mean −0.006846
Std Dev 1.149

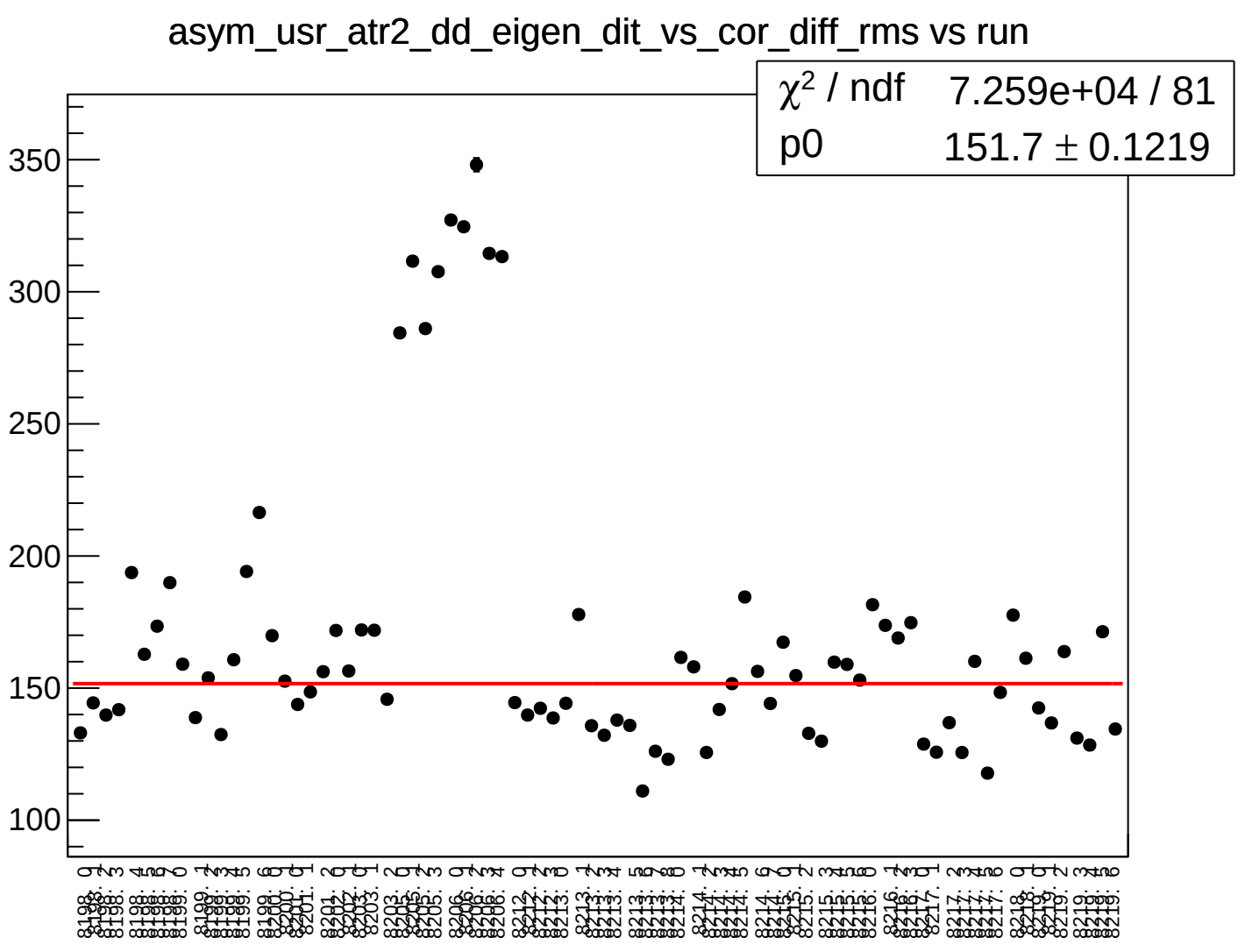

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.259e+04 / 81
p0 151.7 ± 0.1219
350
300
250
200
150
100

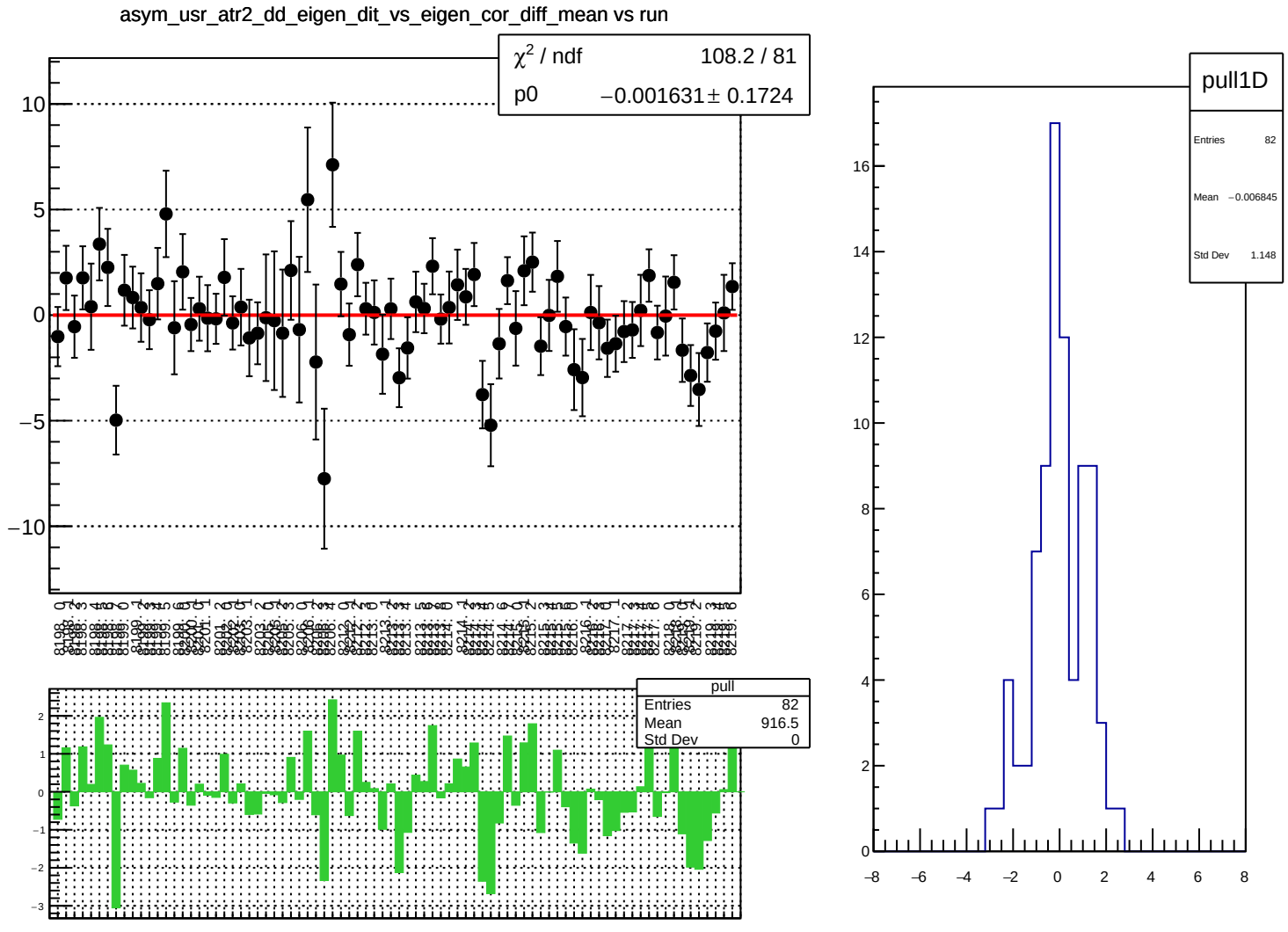

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.89 / 81
p0 9.85e−06 ± 5.657e−06
pull
Entries 82
Mean 226.2
Std Dev 0

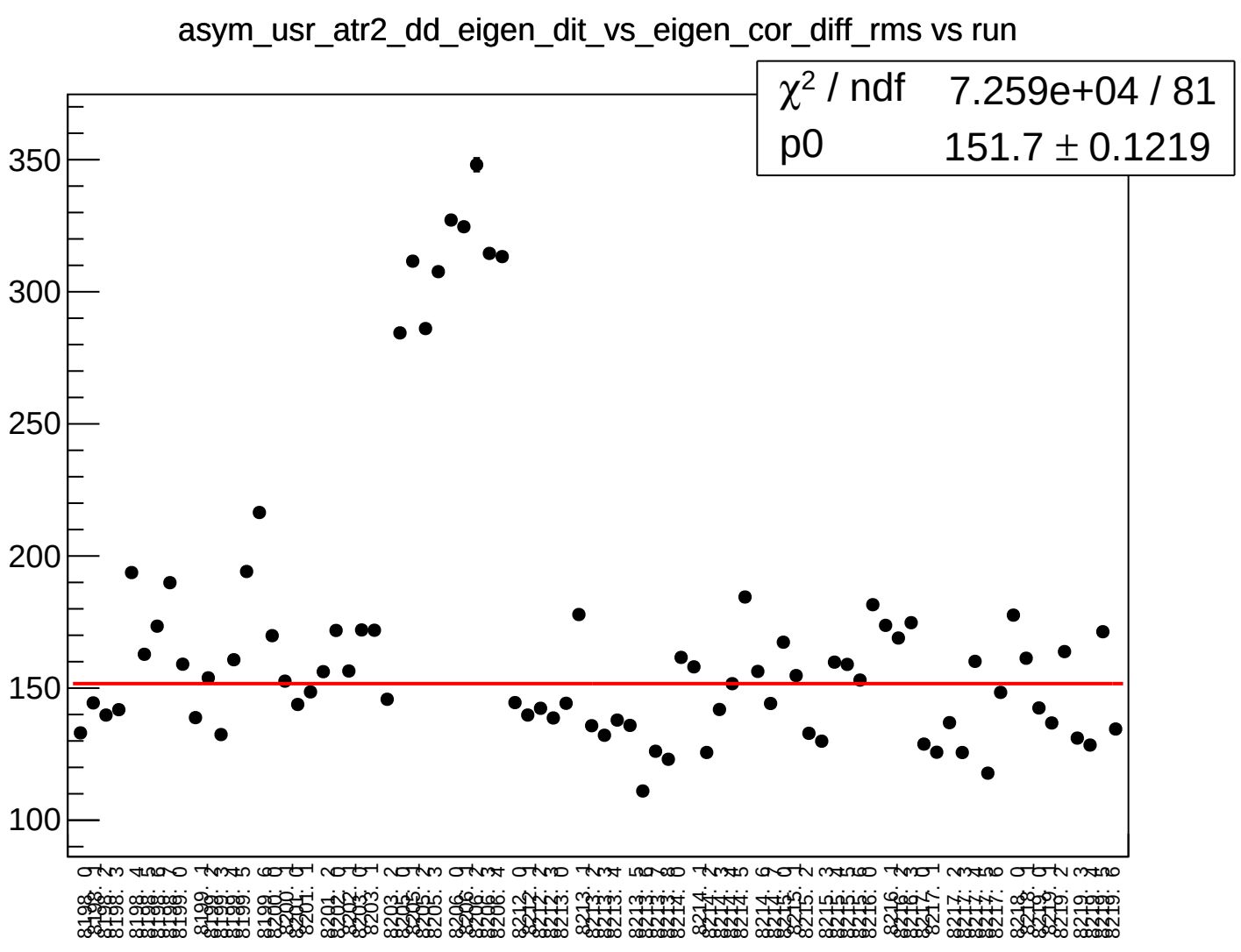

pull1D
Entries 82
Mean 0.01688
Std Dev 1.035

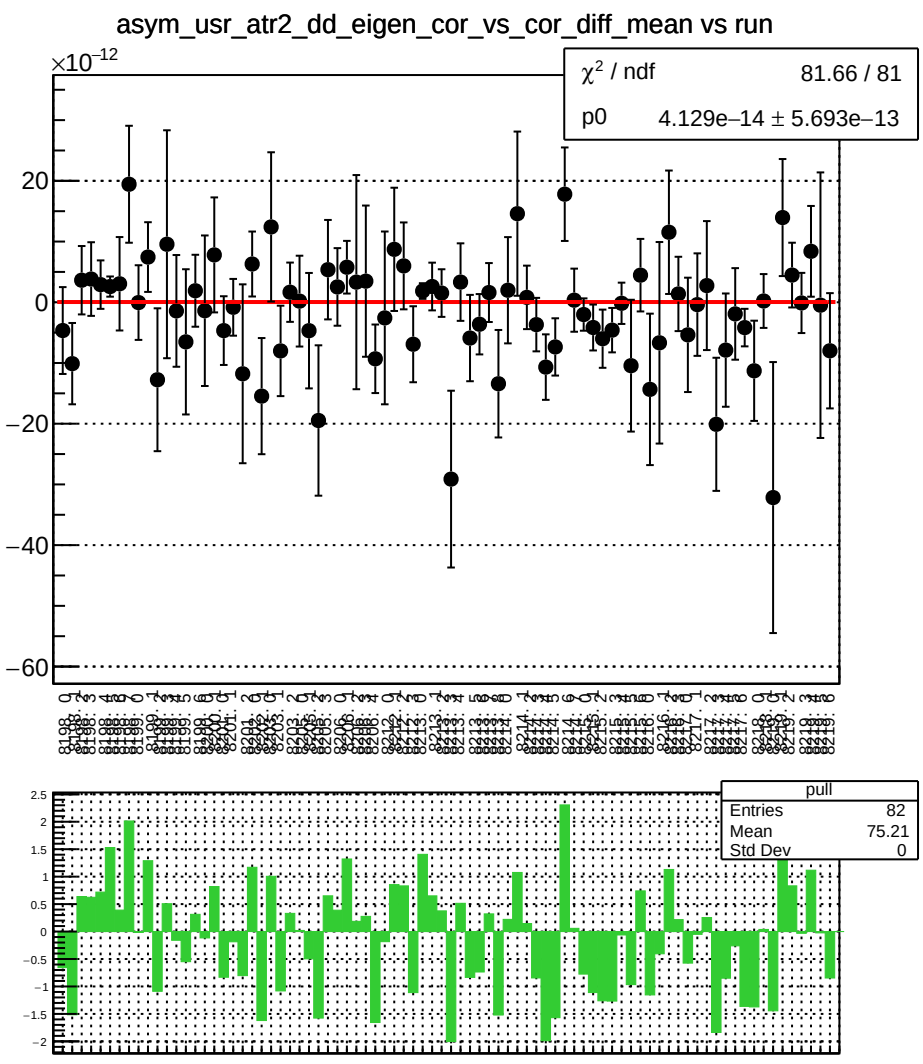

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.789e+05 / 81
p0 0.004275 ± 4e−06
0.025
0.02
0.015
0.01
0.005

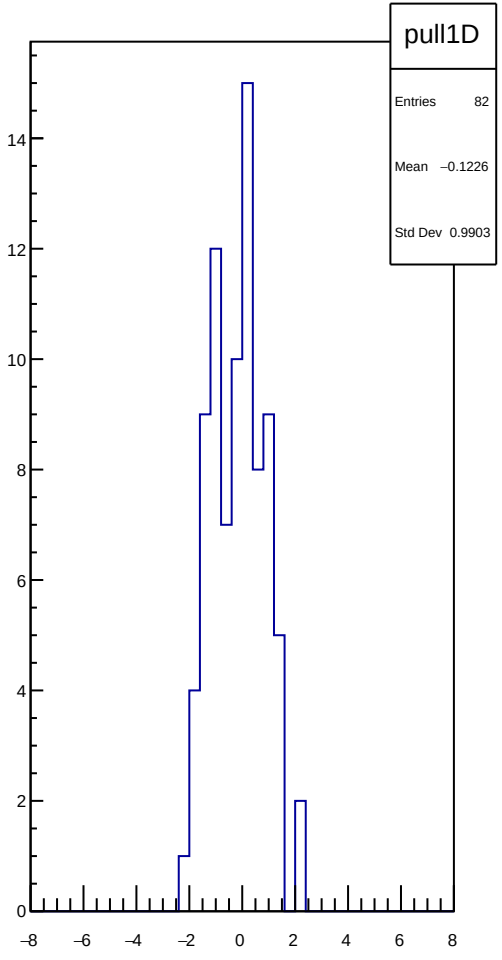

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.2 / 81
p0 −0.001631 ± 0.1724
pull
Entries 82
Mean 916.5
Std Dev 0
pull1D
Entries 82
Mean −0.006845
Std Dev 1.148

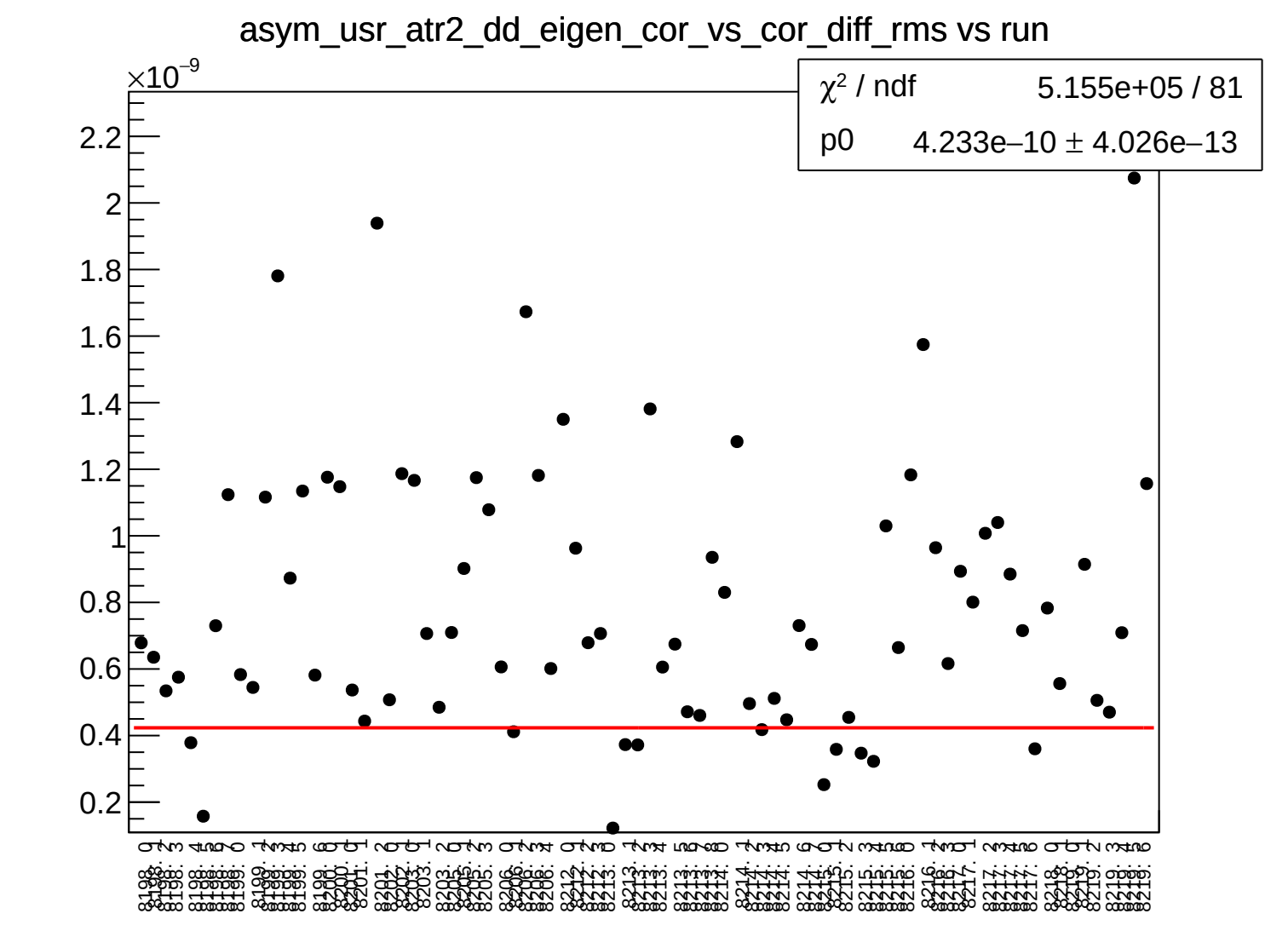

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.259e+04 / 81
p0 151.7 ± 0.1219
350
300
250
200
150
100

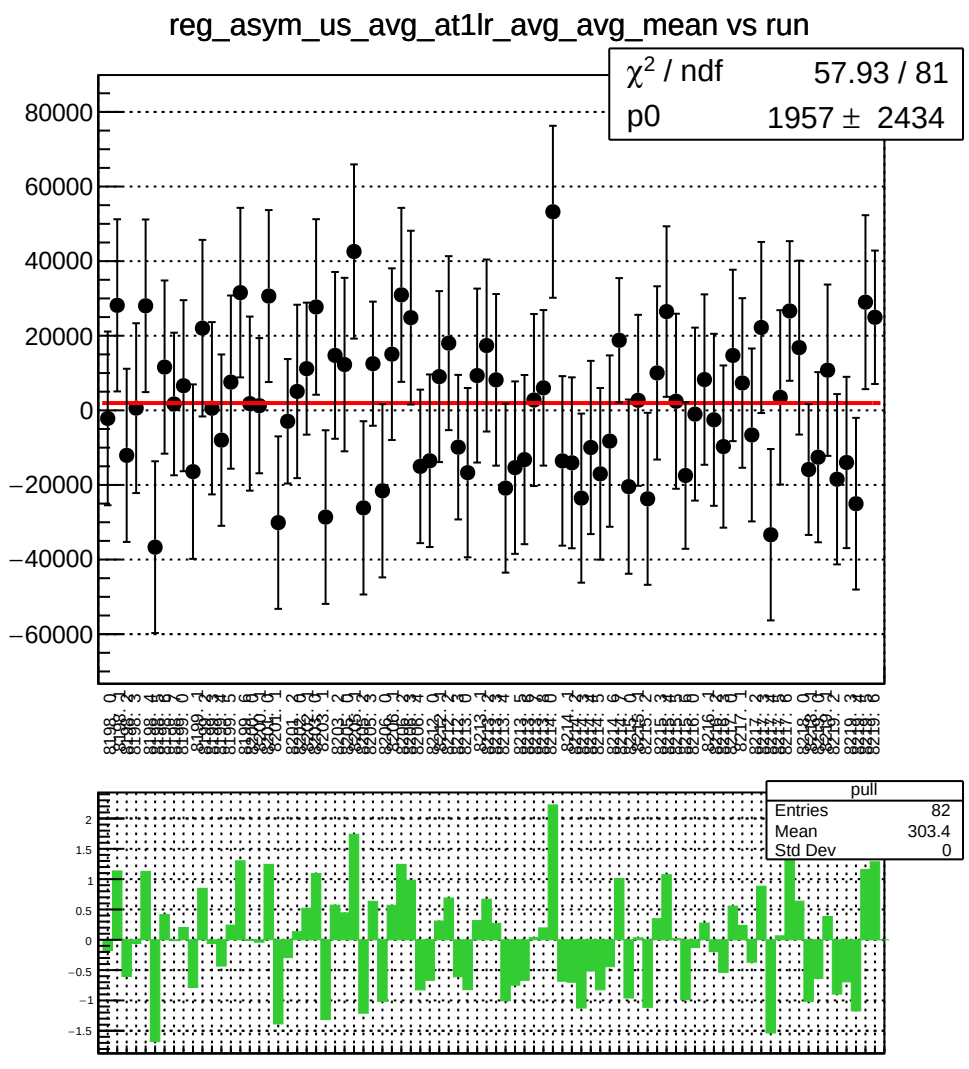

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.2 / 81
p0 −0.001631 ± 0.1724
pull
Entries 82
Mean 916.5
Std Dev 0
pull1D
Entries 82
Mean −0.006845
Std Dev 1.148

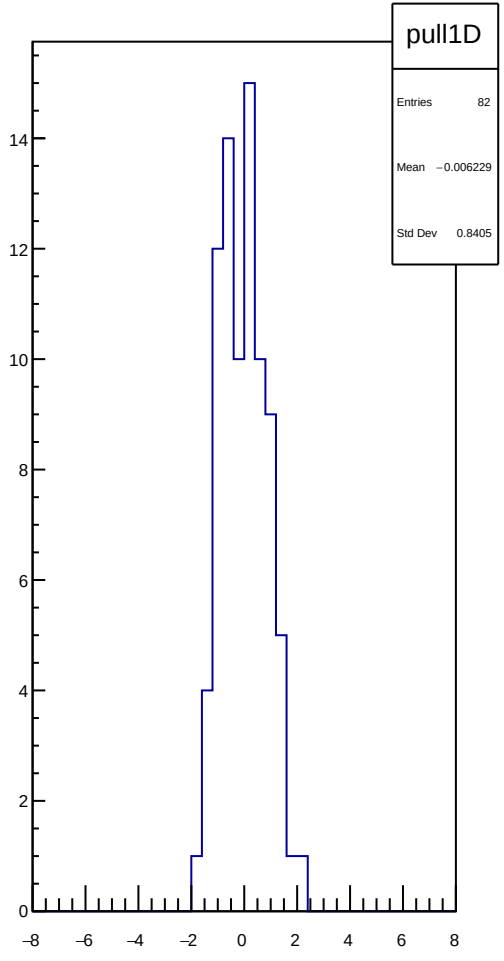

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.259e+04 / 81
p0 151.7 ± 0.1219
350
300
250
200
150
100

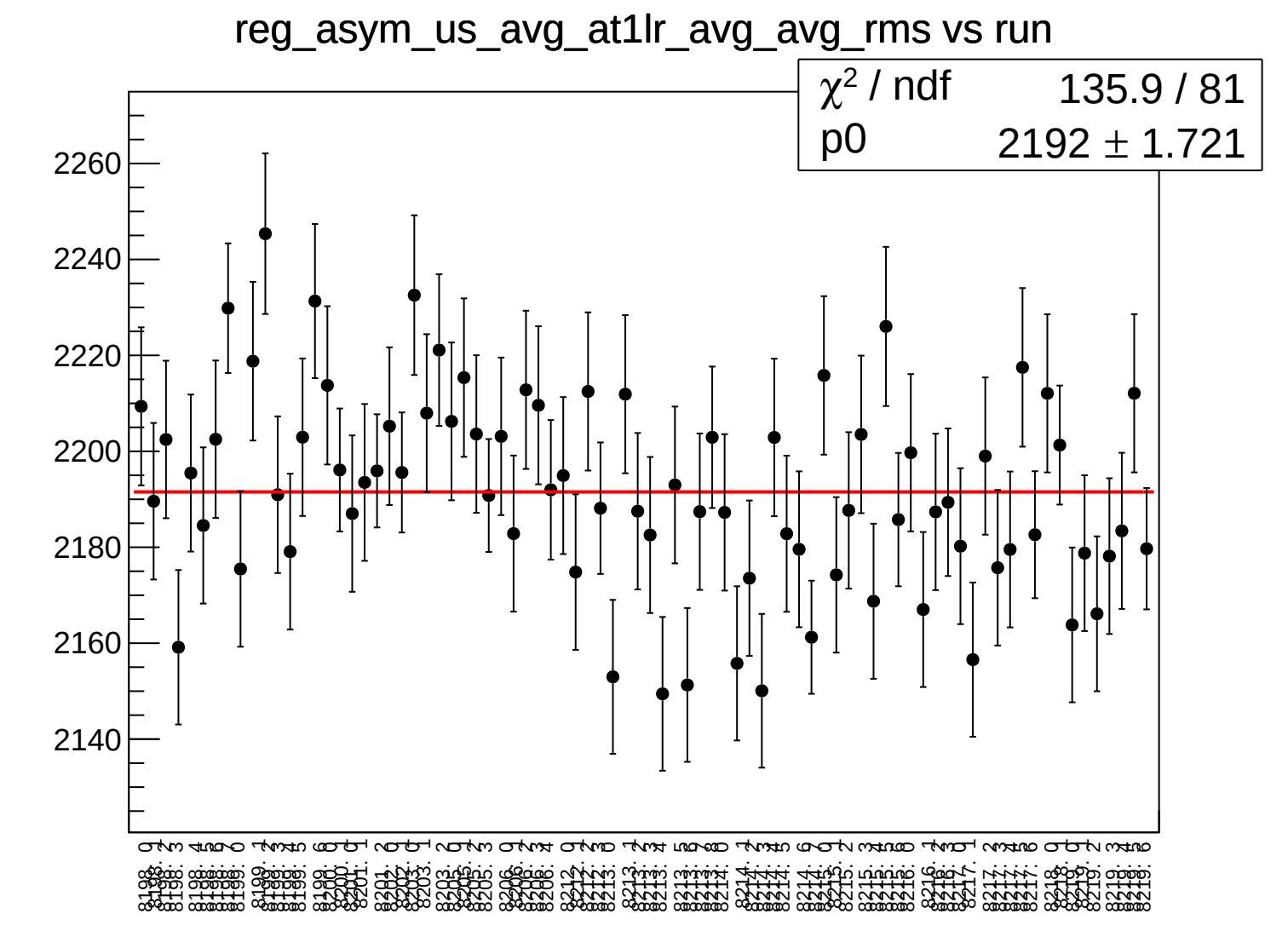

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.66 / 81
p0 4.129e−14 ± 5.693e−13
20
0
−20
−40
−60
pull
Entries 82
Mean 75.21
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

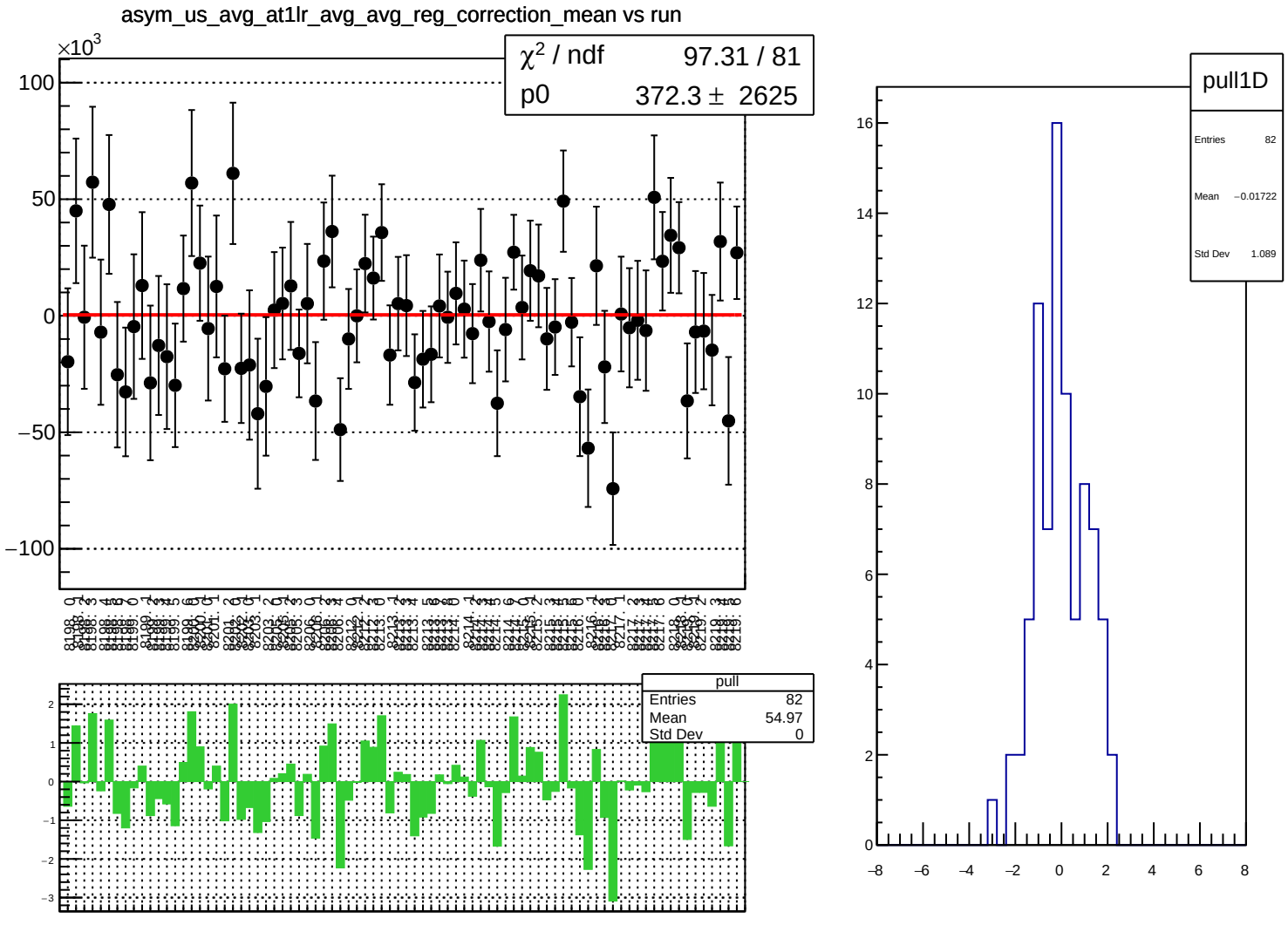

pull1D
Entries 82
Mean −0.1226
Std Dev 0.9903
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

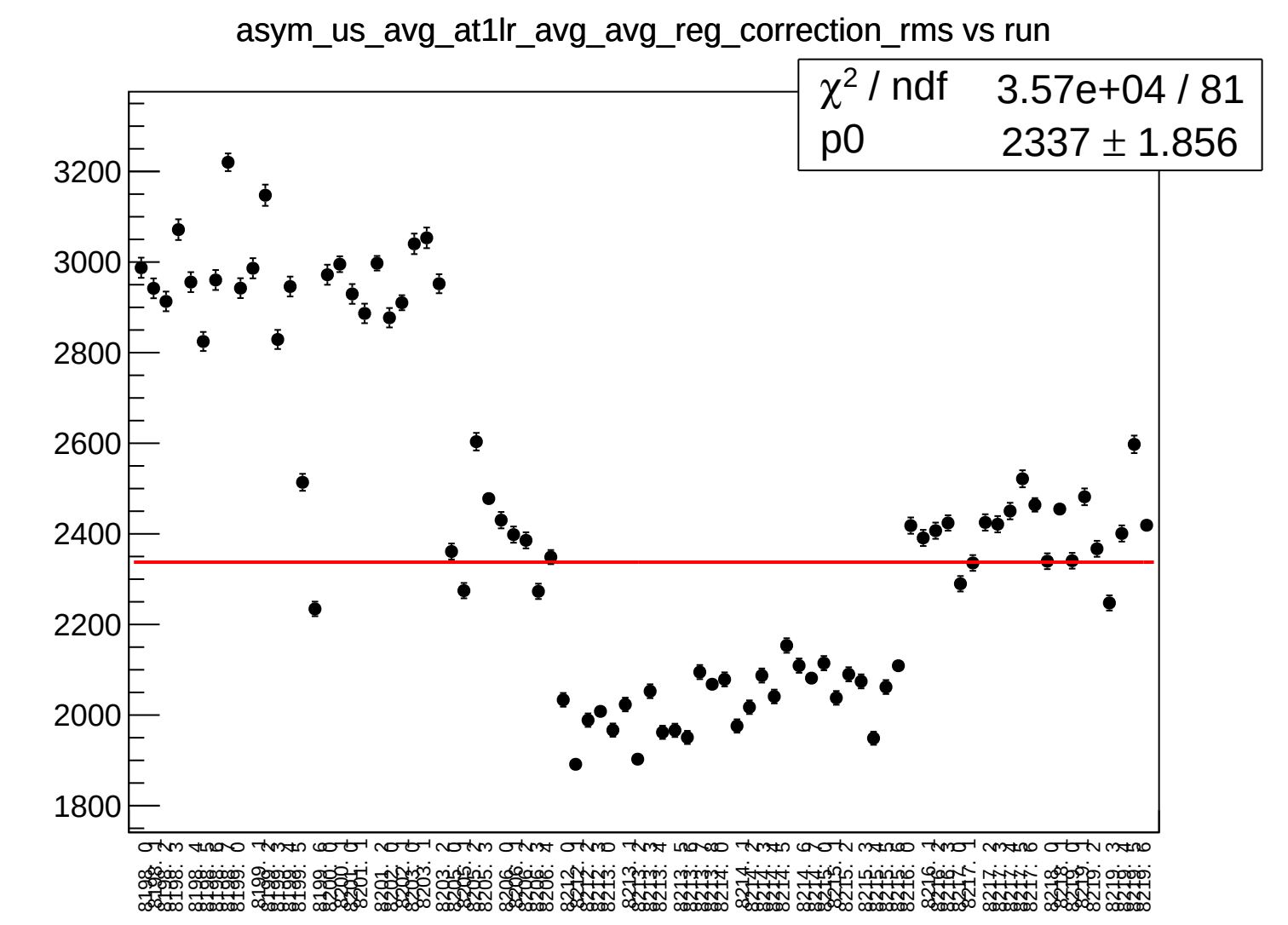

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.155e+05 / 81
p0 4.233e−10 ± 4.026e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

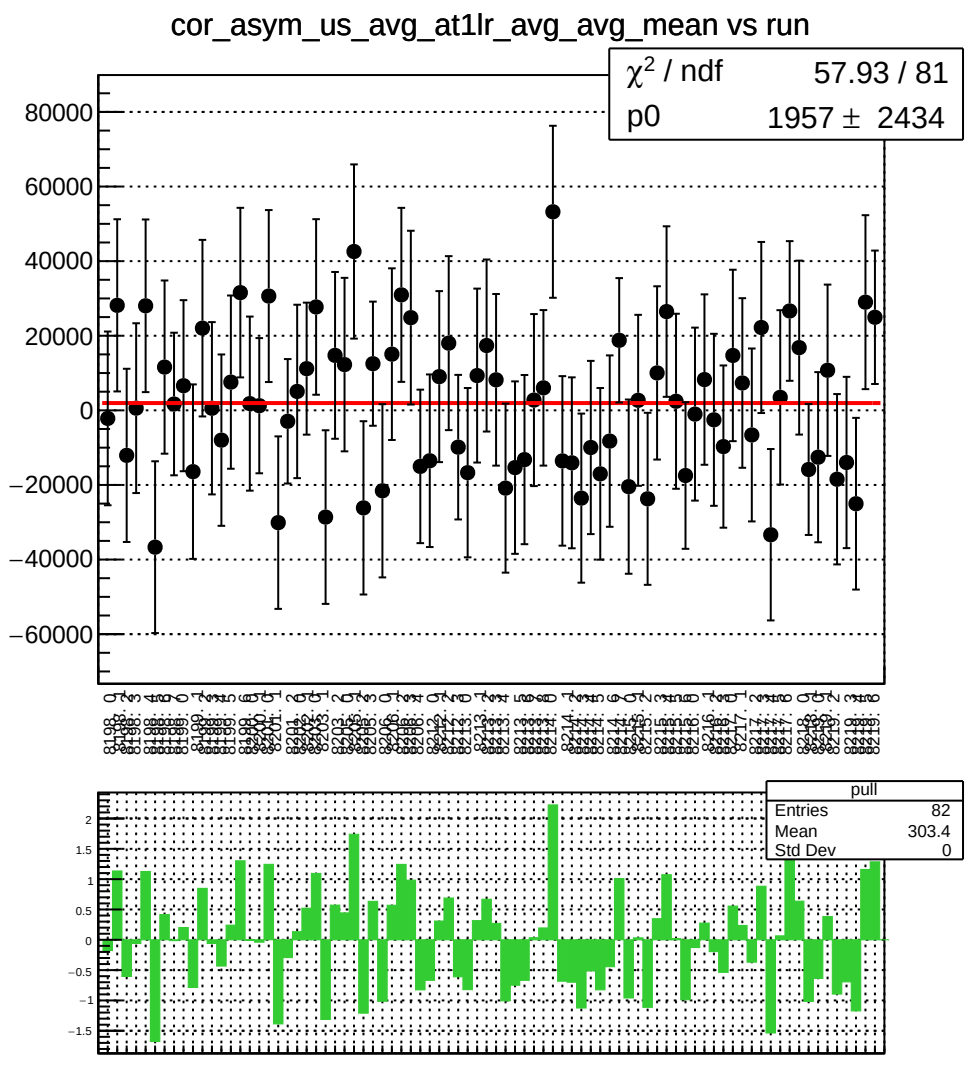

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 57.93 / 81
p0 1957 ± 2434
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 303.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

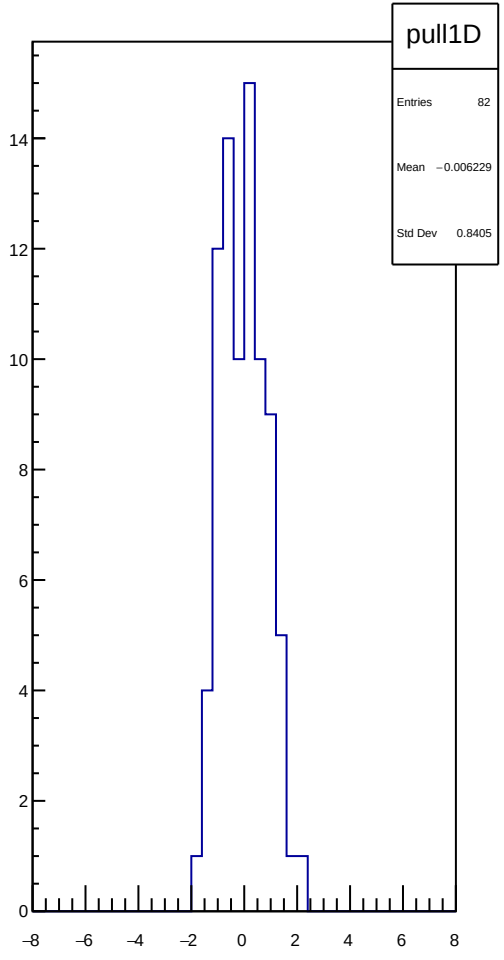

pull1D
Entries 82
Mean −0.006229
Std Dev 0.8405
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

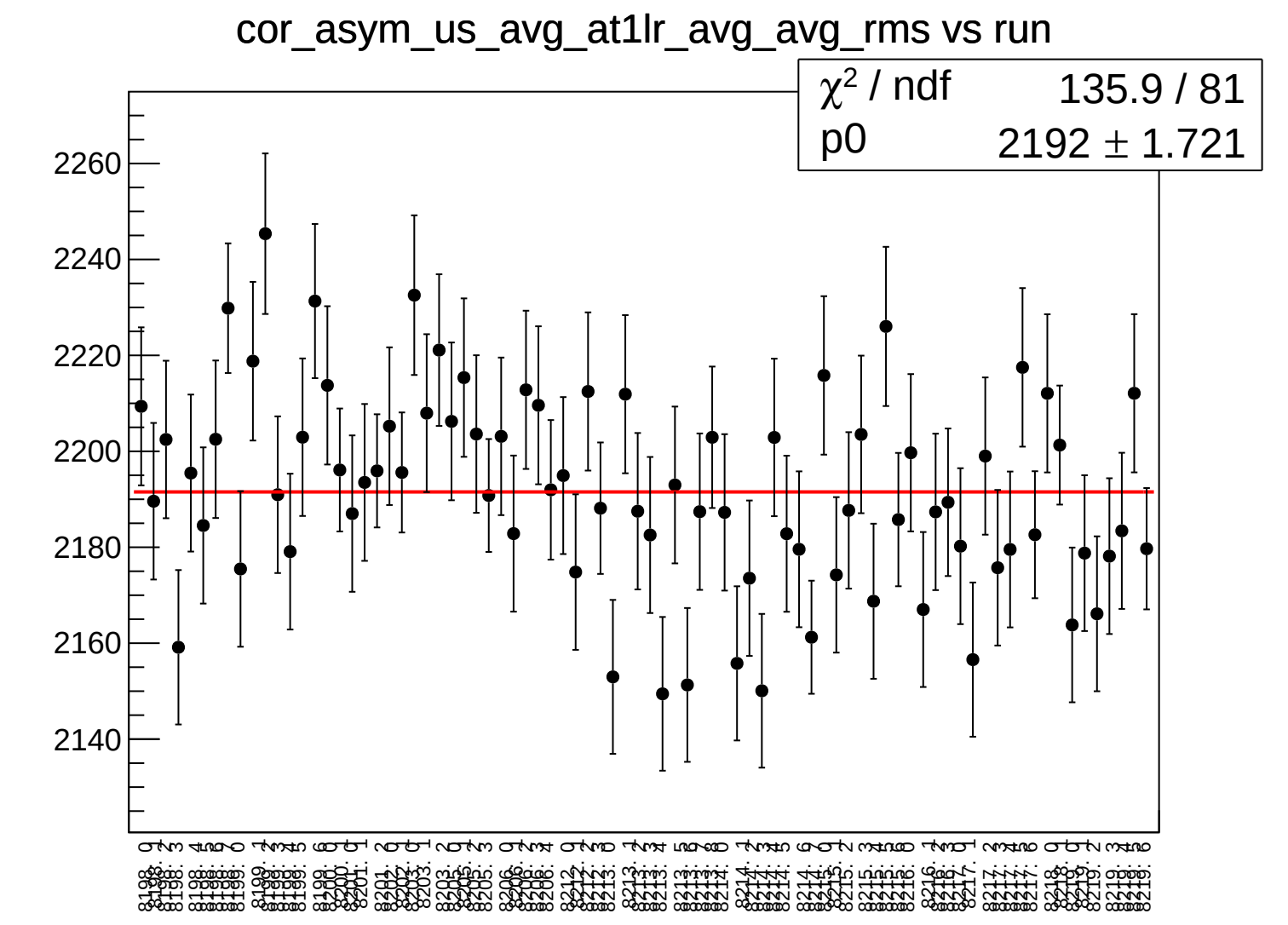

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 135.9 / 81
p0 2192 ± 1.721
2260
2240
2220
2200
2180
2160
2140

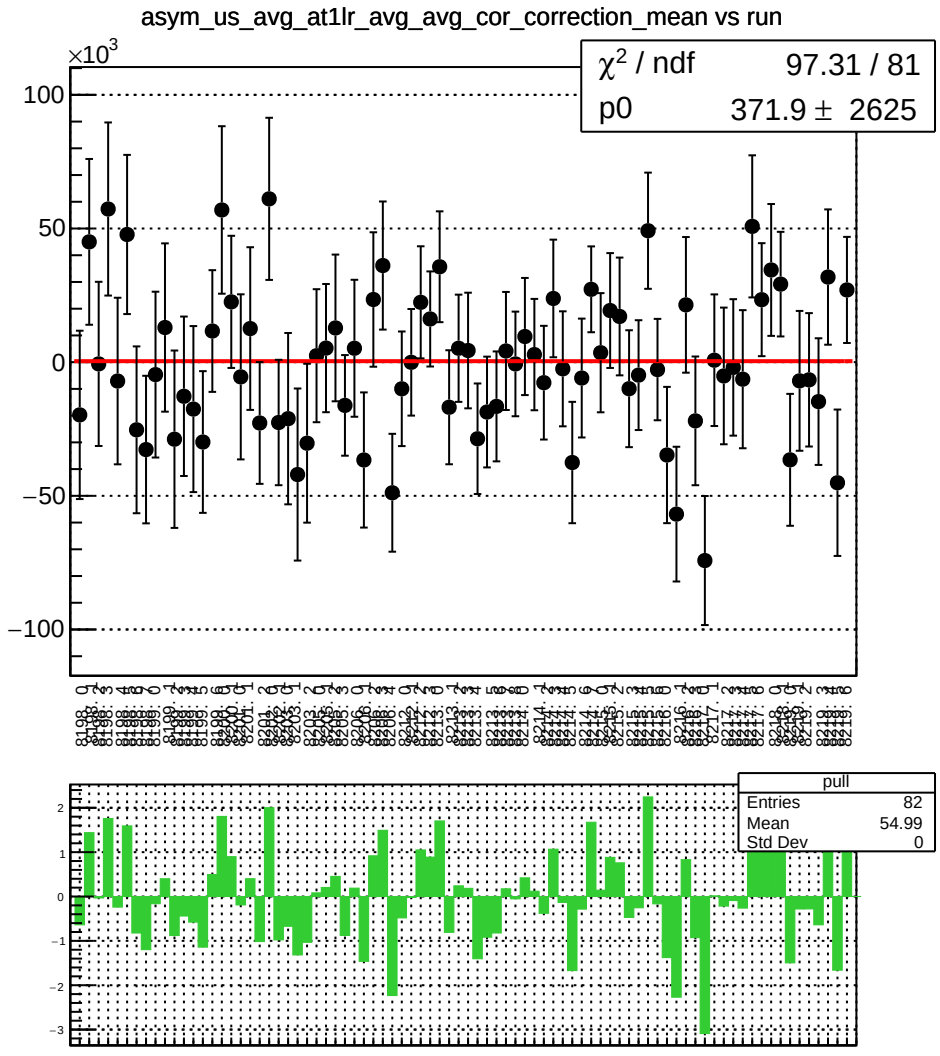

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.31 / 81
p0 372.3 ± 2625
100
50
0
−50
−100
pull
Entries 82
Mean 54.97
Std Dev 0
pull1D
Entries 82
Mean −0.01722
Std Dev 1.089

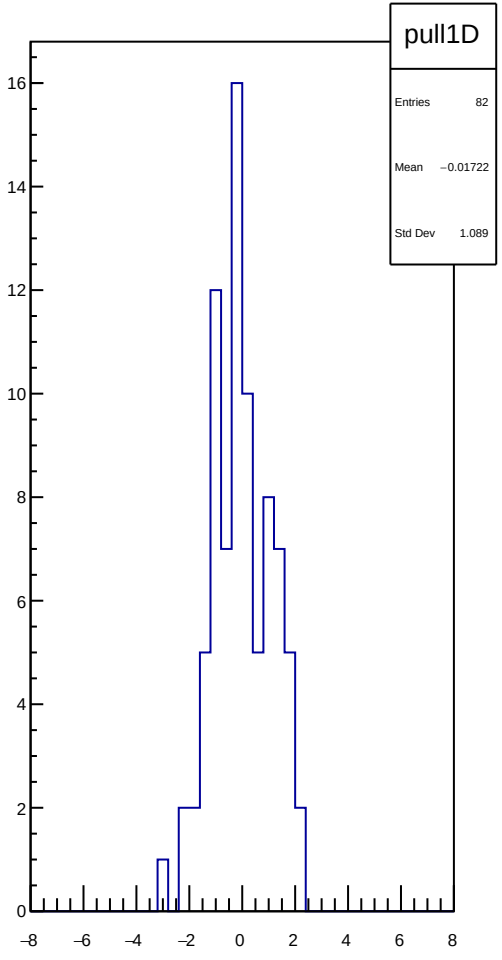

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.57e+04 / 81
p0 2337 ± 1.856
3200
3000
2800
2600
2400
2200
2000
1800

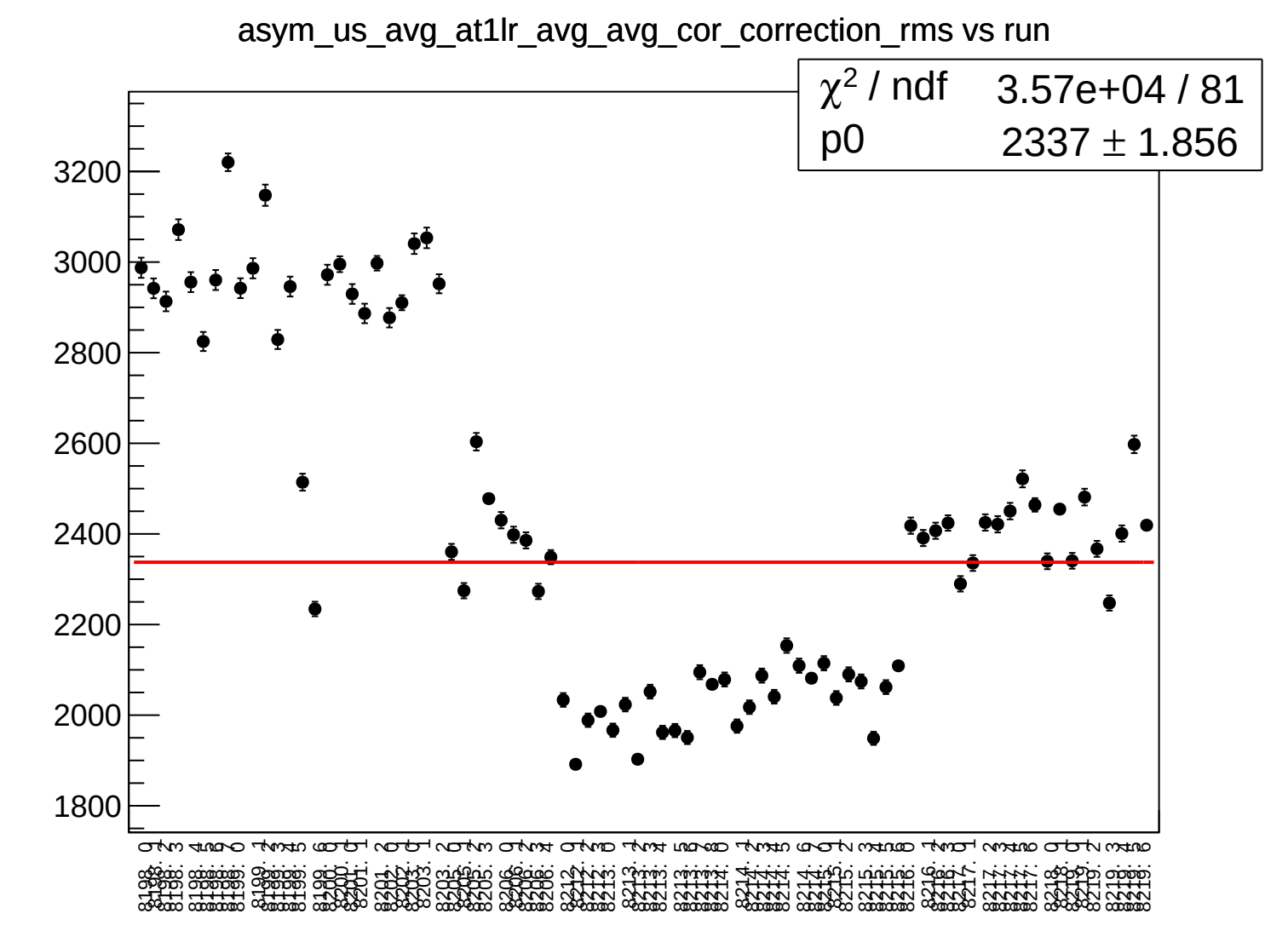

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 57.93 / 81
p0 1957 ± 2434
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 303.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

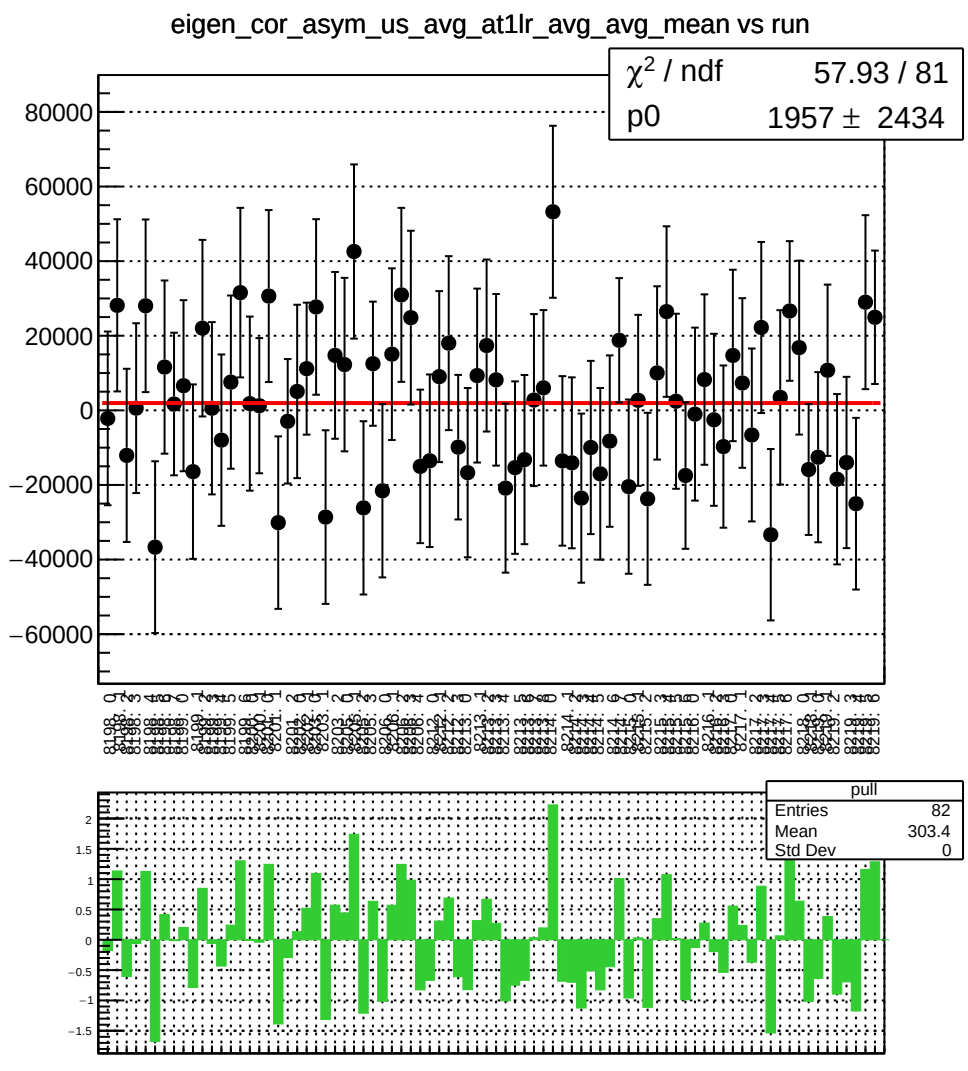

pull1D
Entries 82
Mean −0.006229
Std Dev 0.8405
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

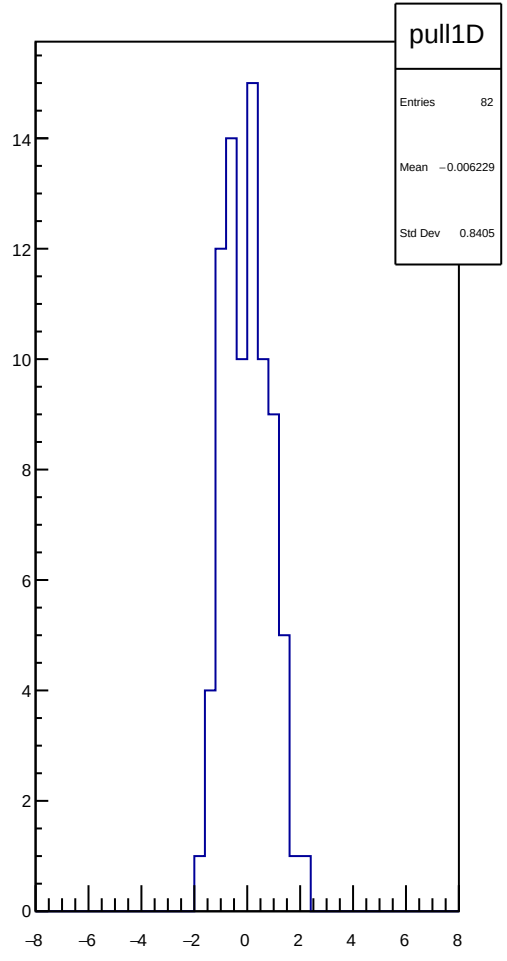

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 135.9 / 81
p0 2192 ± 1.721
2260
2240
2220
2200
2180
2160
2140

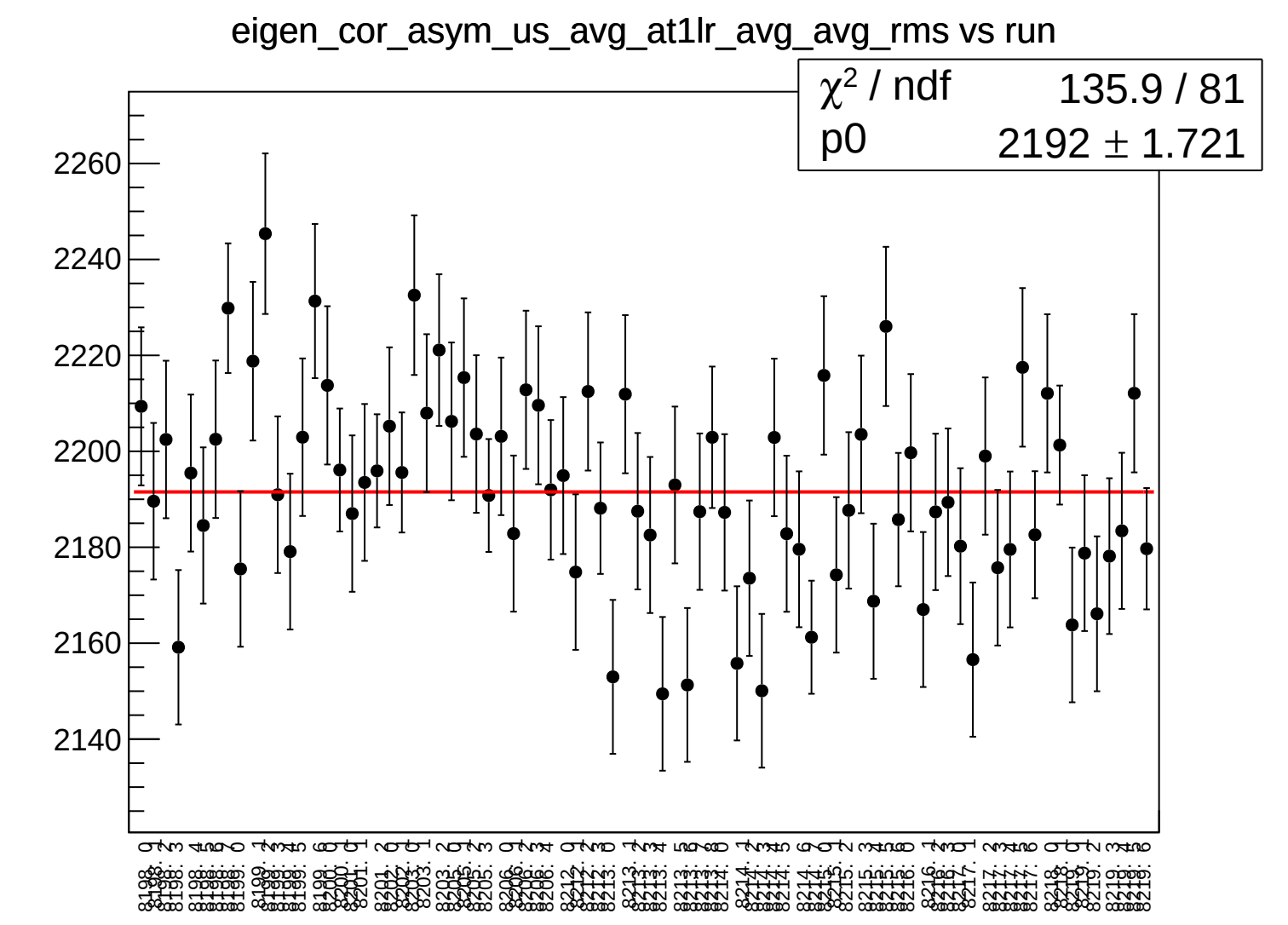

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.31 / 81
p0 371.9 ± 2625
100
50
0
−50
−100
pull
Entries 82
Mean 54.99
Std Dev 0
2
1
0
−1
−2
−3

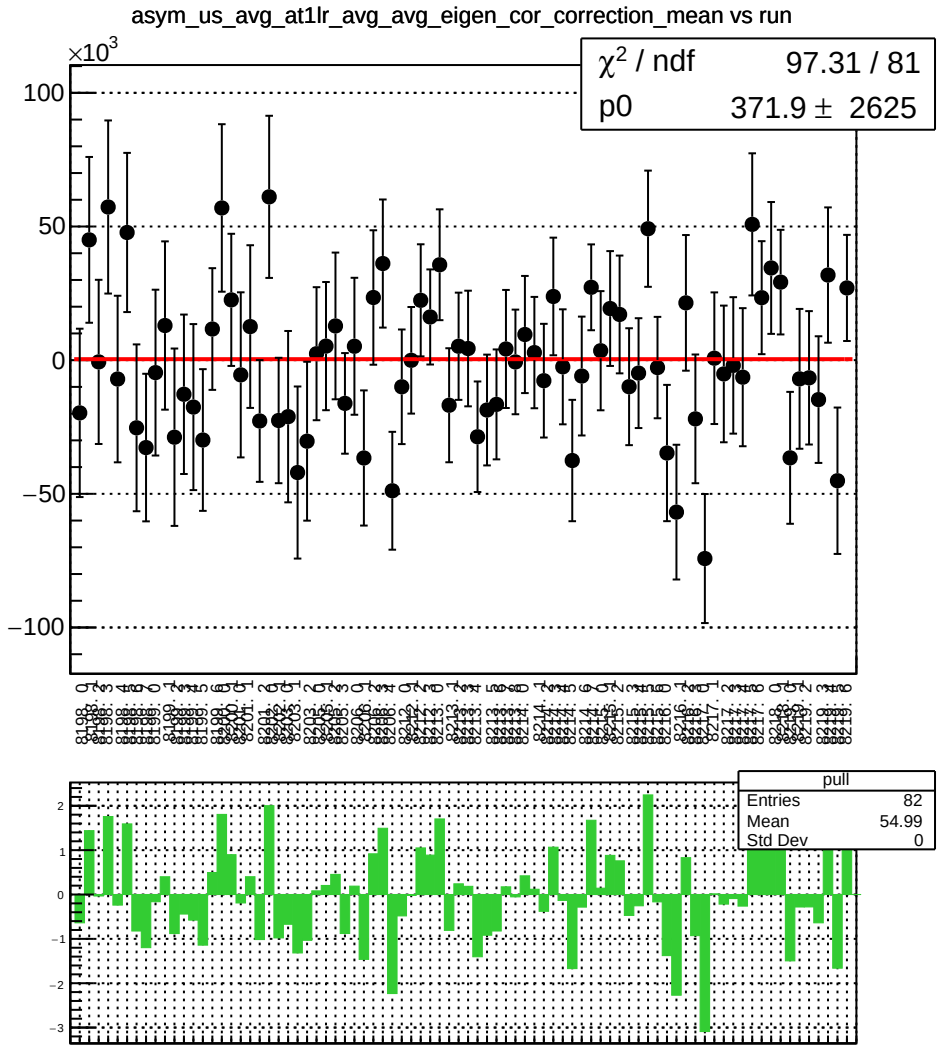

pull1D
Entries 82
Mean −0.01722
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

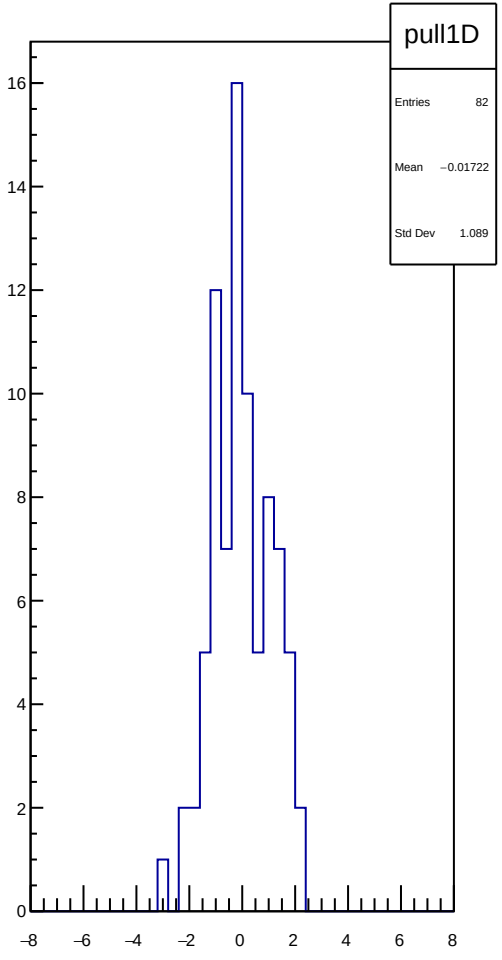

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.57e+04 / 81
p0 2337 ± 1.856
3200
3000
2800
2600
2400
2200
2000
1800

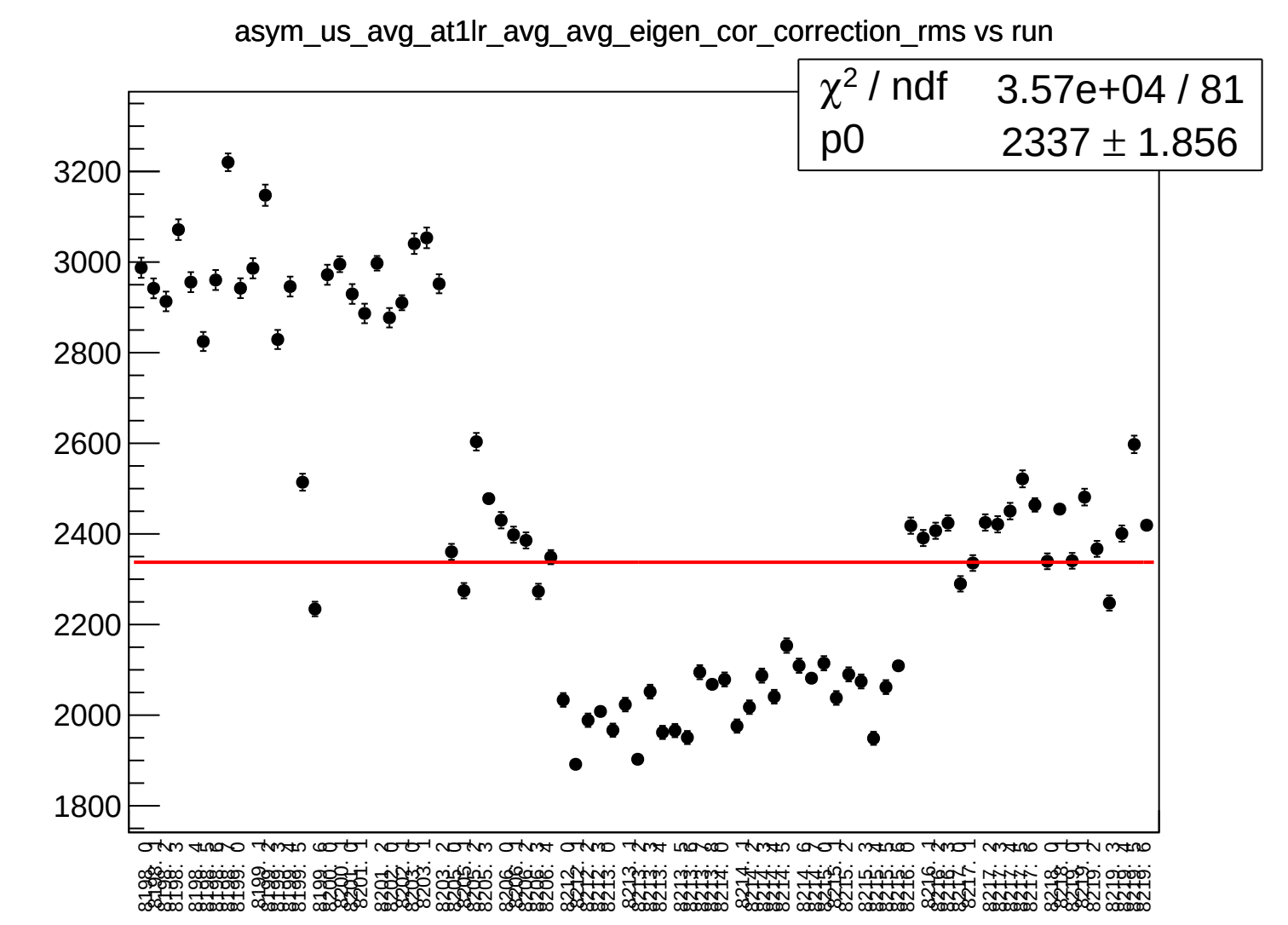

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 57.93 / 81
p0 1957 ± 2434
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 303.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

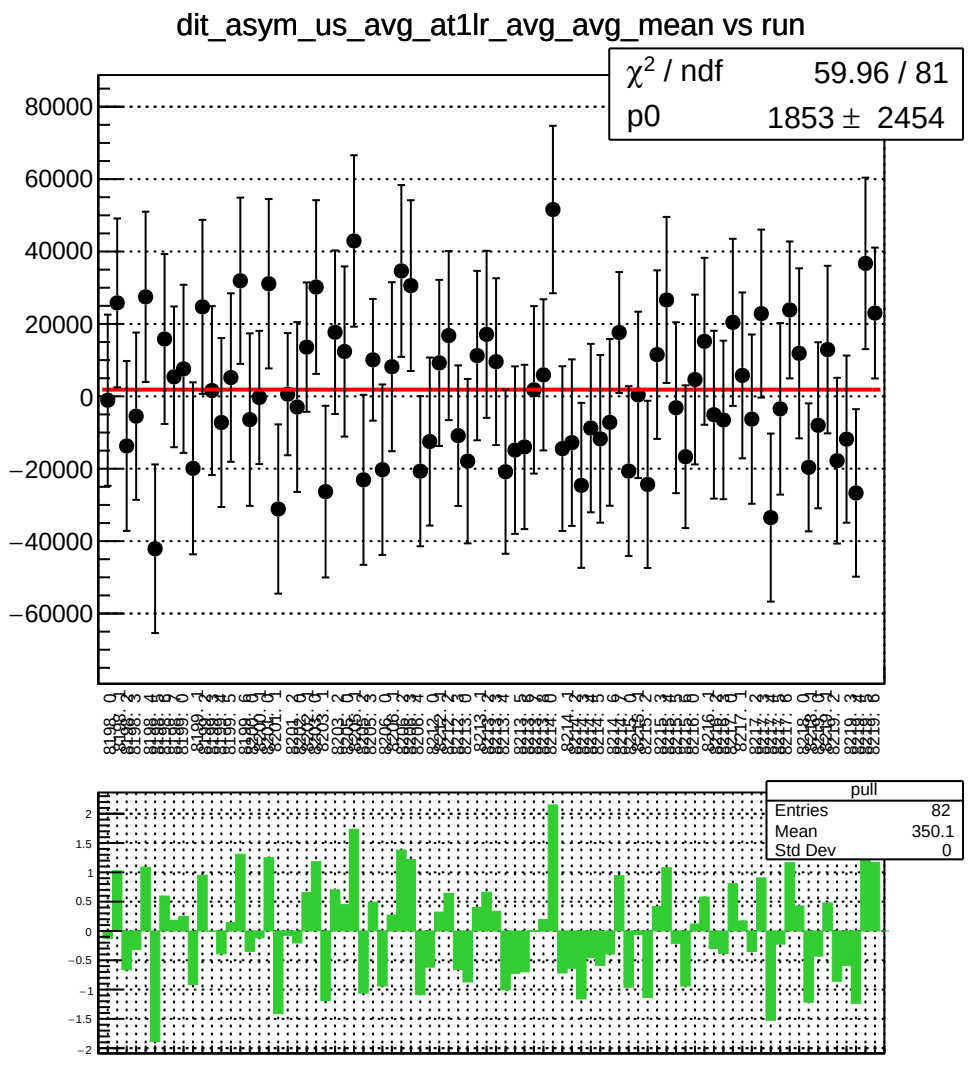

pull1D
Entries 82
Mean −0.006229
Std Dev 0.8405
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

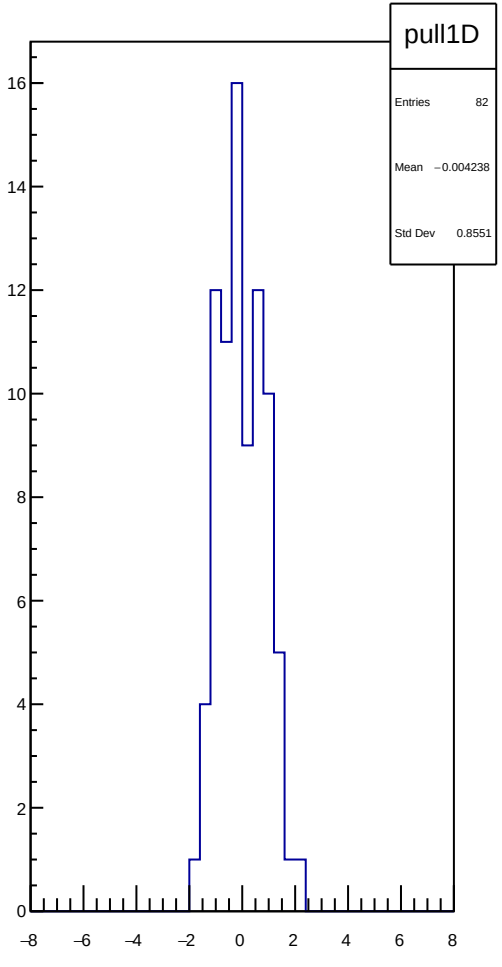

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 135.9 / 81
p0 2192 ± 1.721
2260
2240
2220
2200
2180
2160
2140

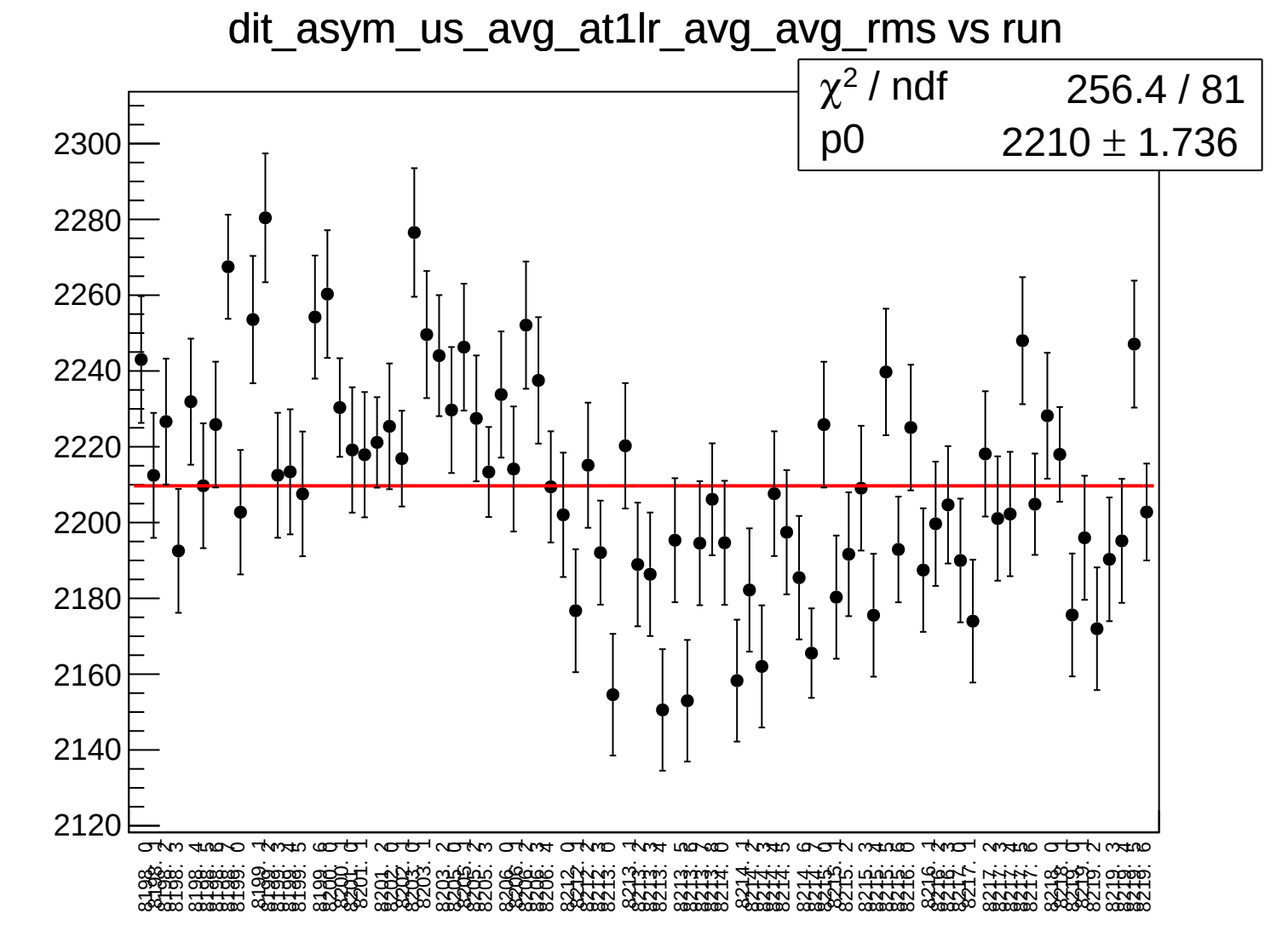

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.31 / 81
p0 371.9 ± 2625
100
50
0
−50
−100
pull
Entries 82
Mean 54.99
Std Dev 0
2
1
0
−1
−2
−3

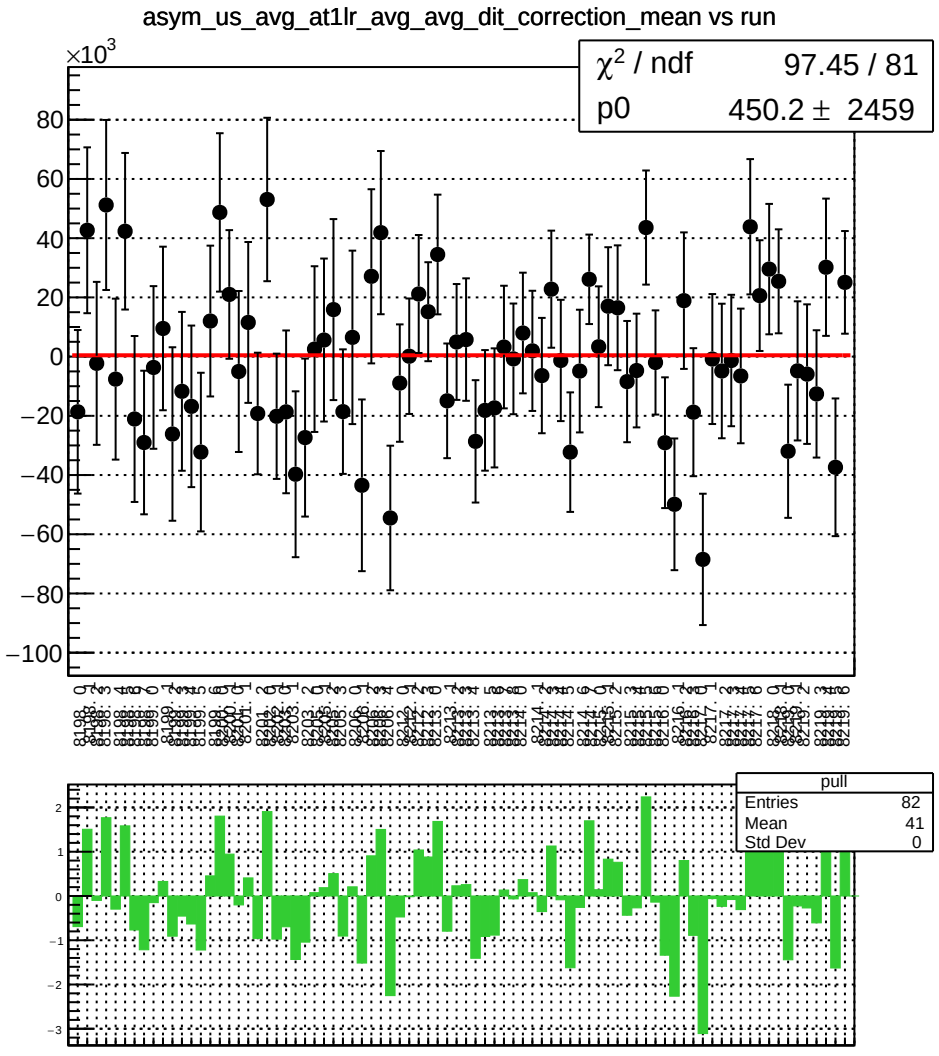

pull1D
Entries 82
Mean −0.01722
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

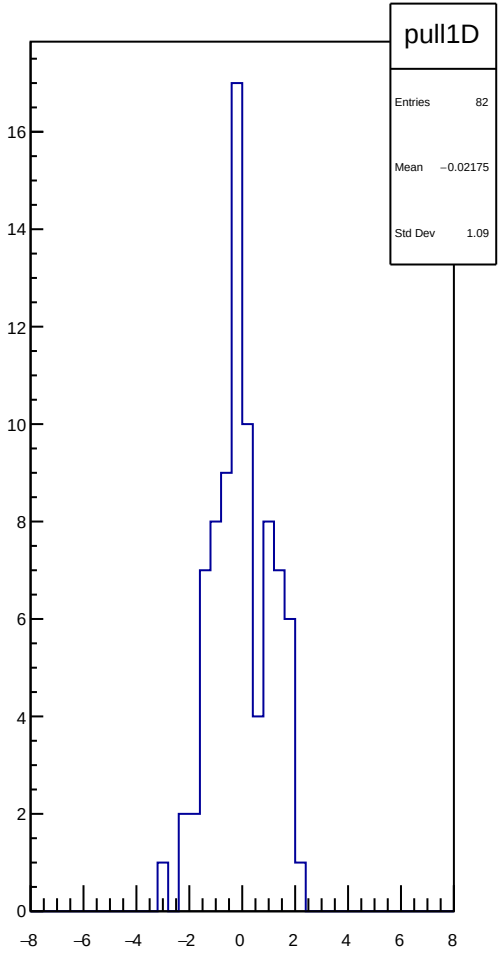

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.57e+04 / 81
p0 2337 ± 1.856
3200
3000
2800
2600
2400
2200
2000
1800

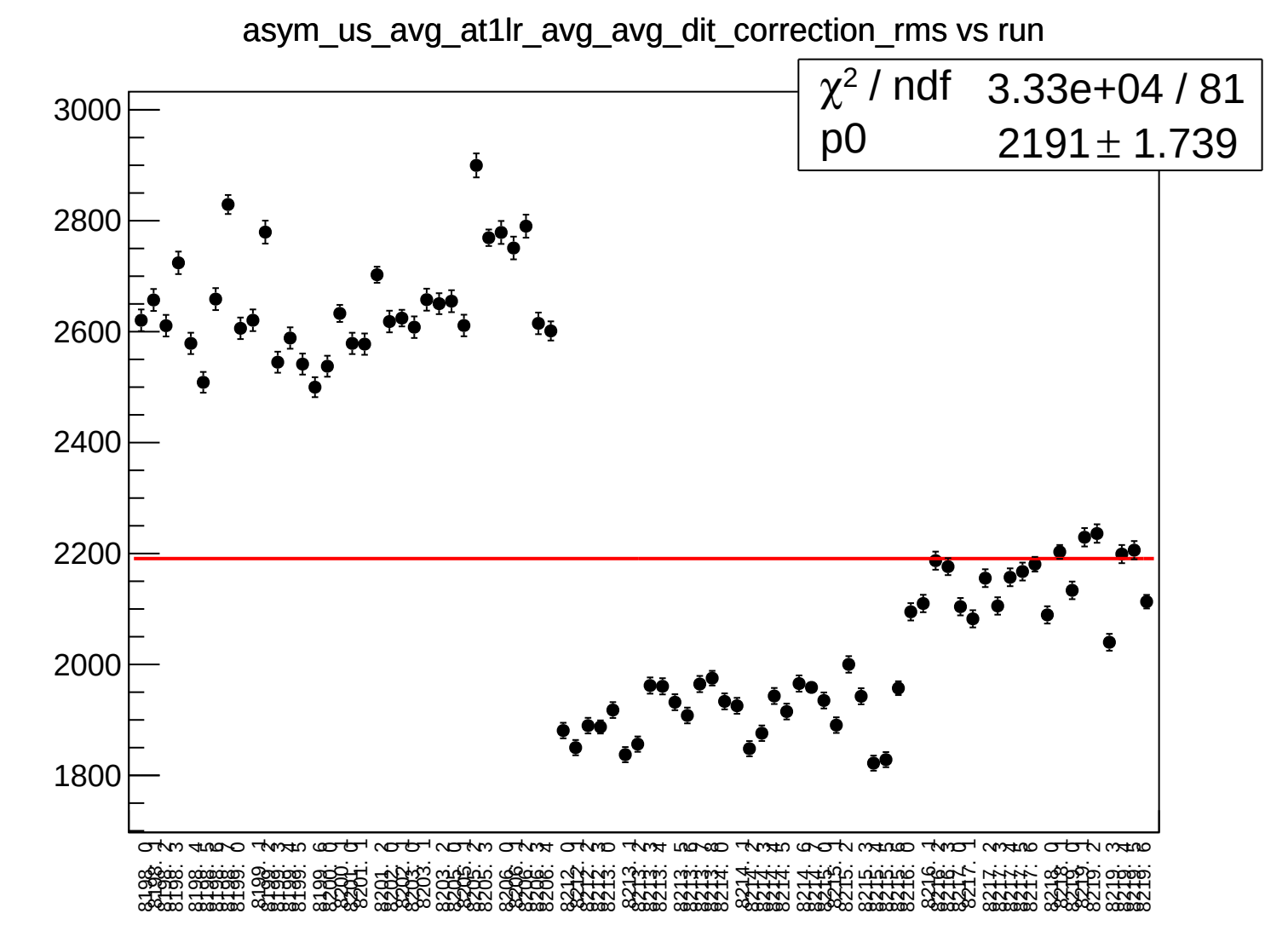

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 59.96 / 81
p0 1853 ± 2454
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 350.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

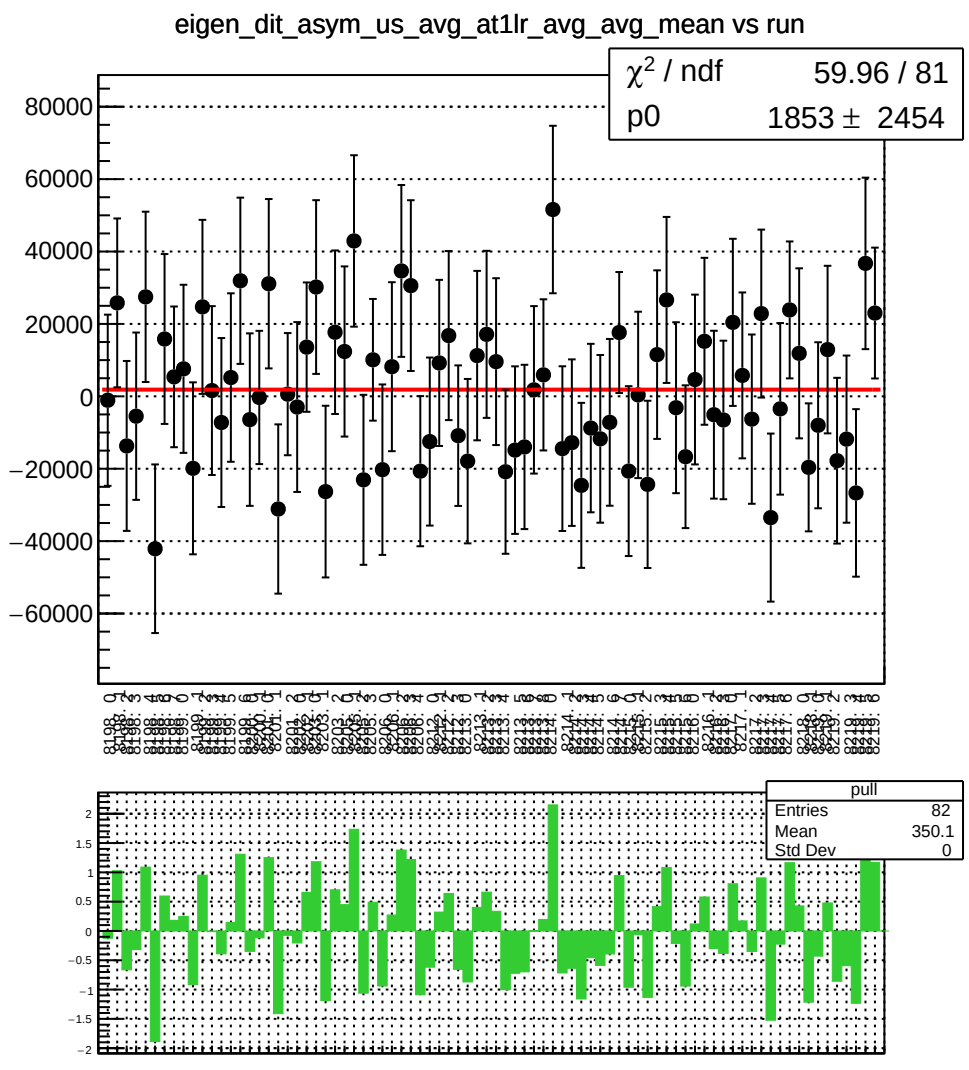

pull1D
Entries 82
Mean −0.004238
Std Dev 0.8551
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

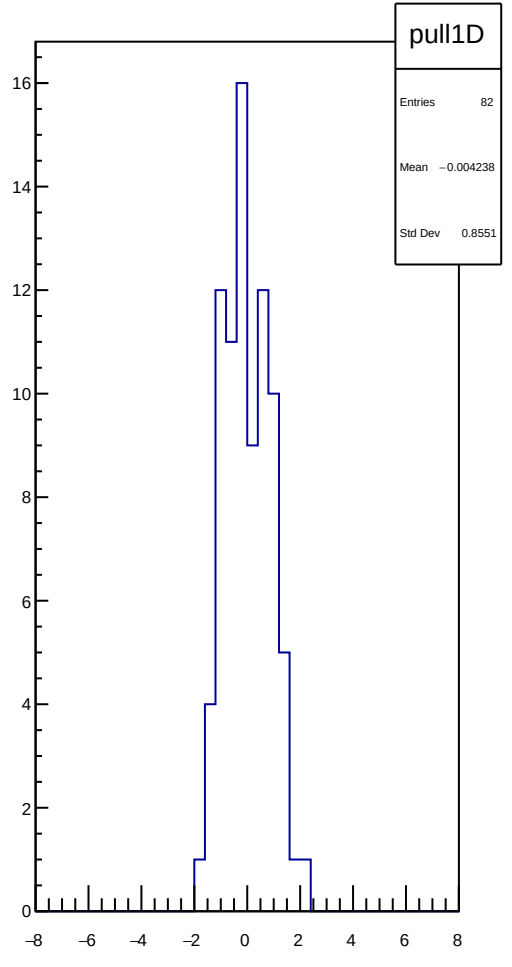

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 256.4 / 81
p0 2210 ± 1.736
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

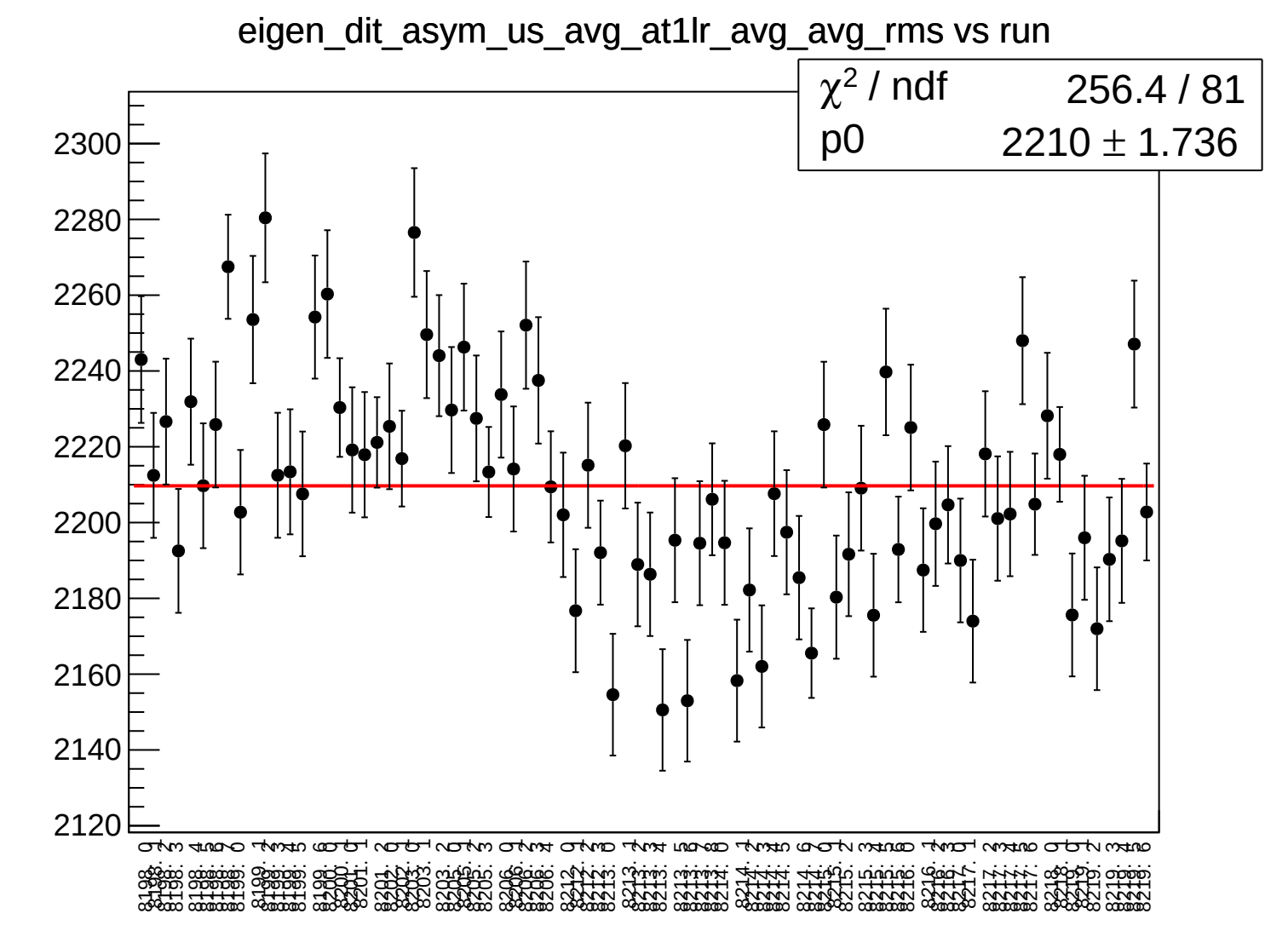

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.45 / 81
p0 450.2 ± 2459
pull
Entries 82
Mean 41
Std Dev 0

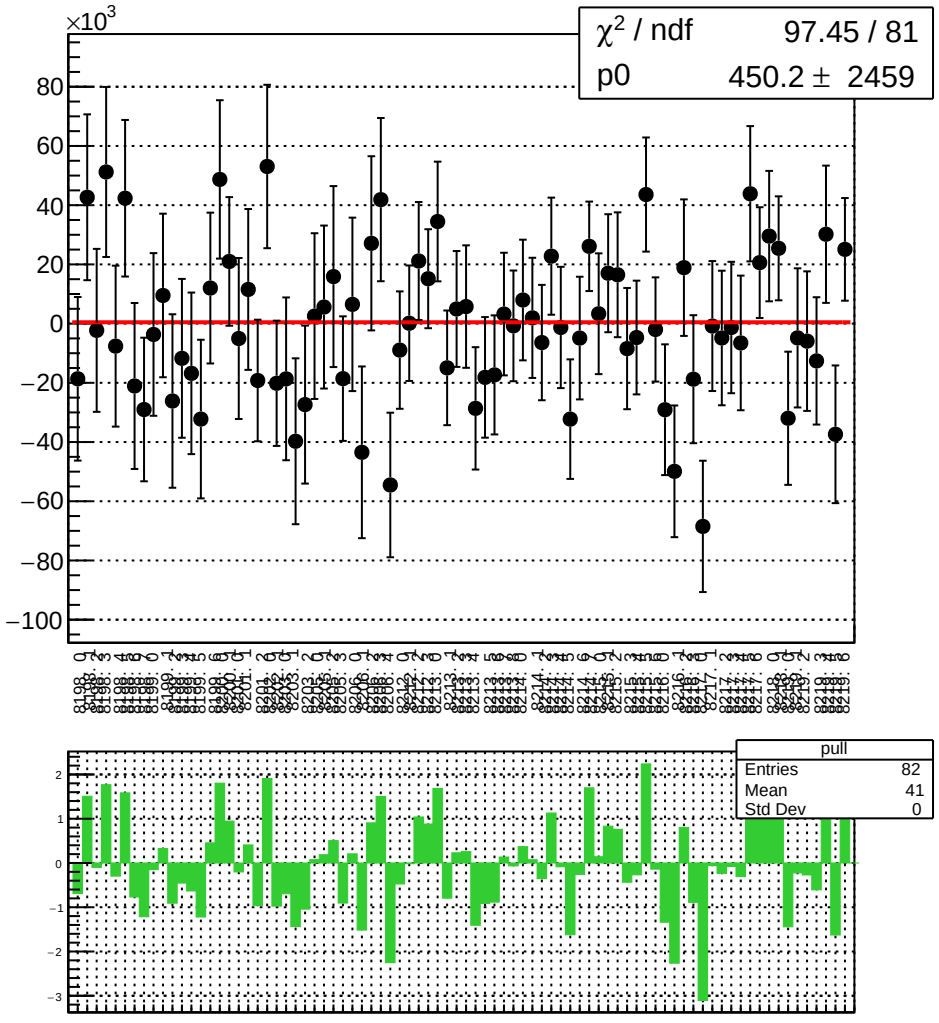

pull1D
Entries 82
Mean −0.02175
Std Dev 1.09

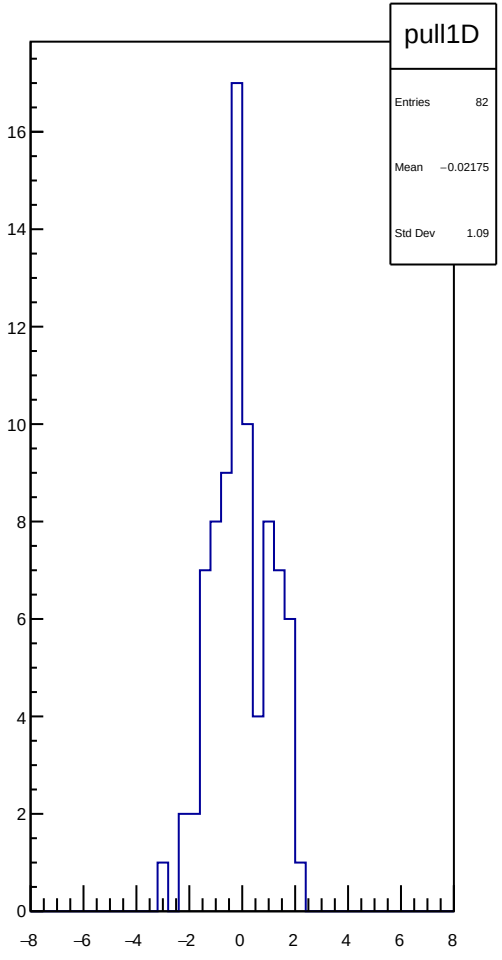

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.33e+04 / 81
p0 2191 ± 1.739
3000
2800
2600
2400
2200
2000
1800

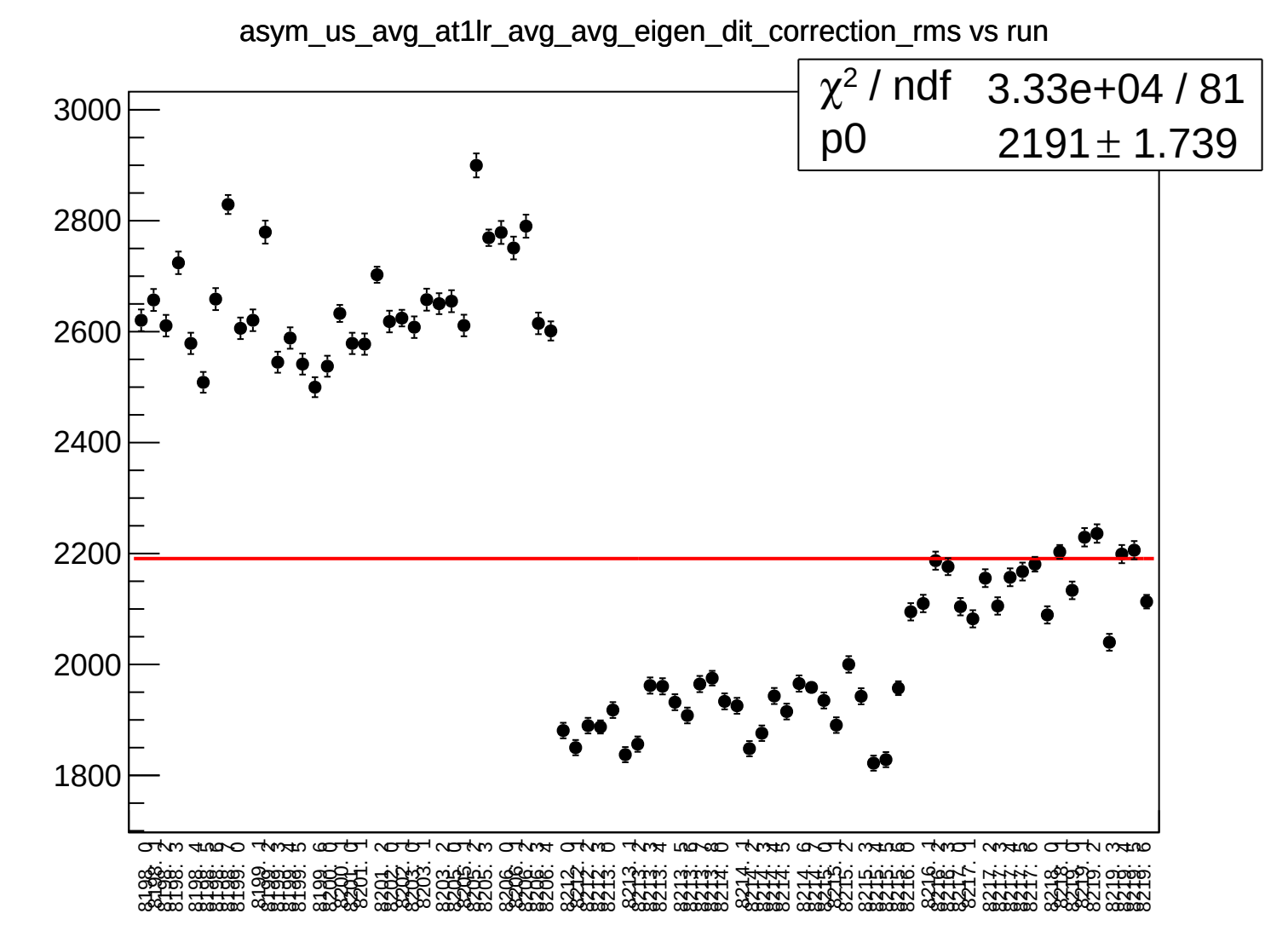

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 59.96 / 81
p0 1853 ± 2454
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 350.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

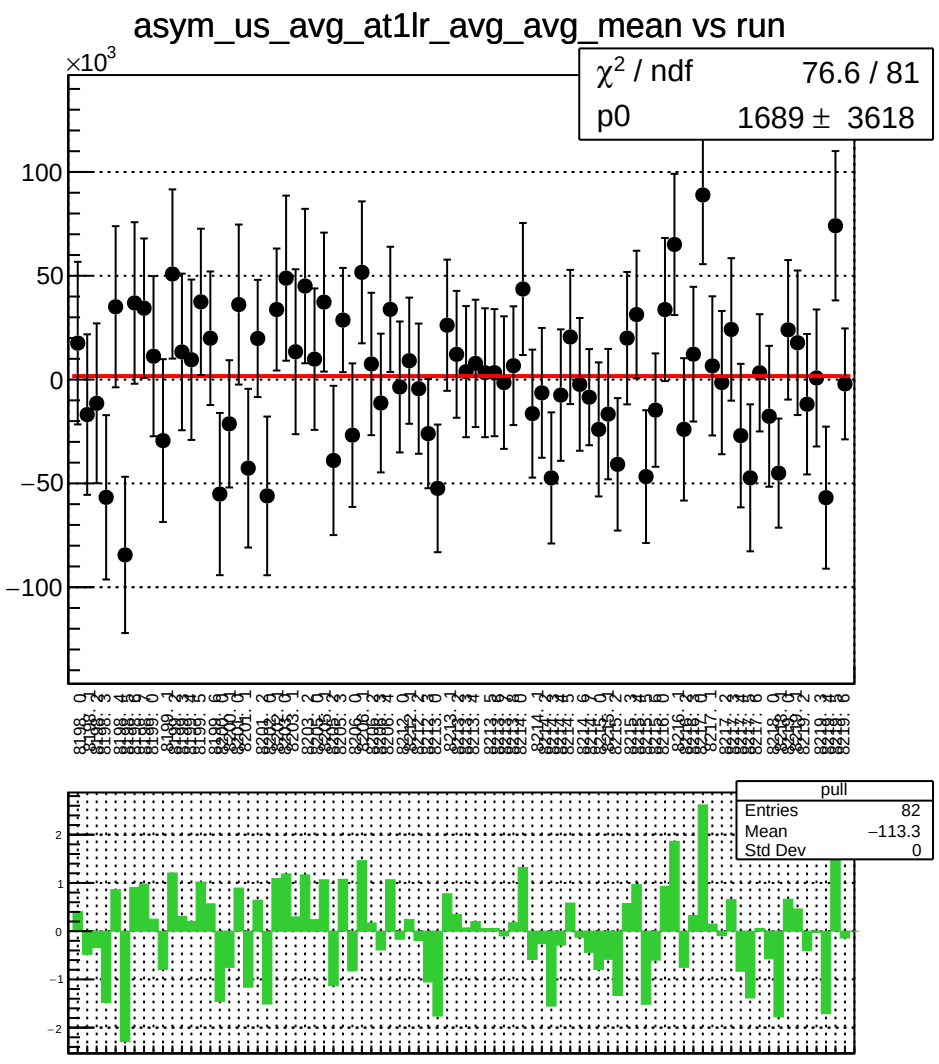

pull1D
Entries 82
Mean −0.004238
Std Dev 0.8551
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

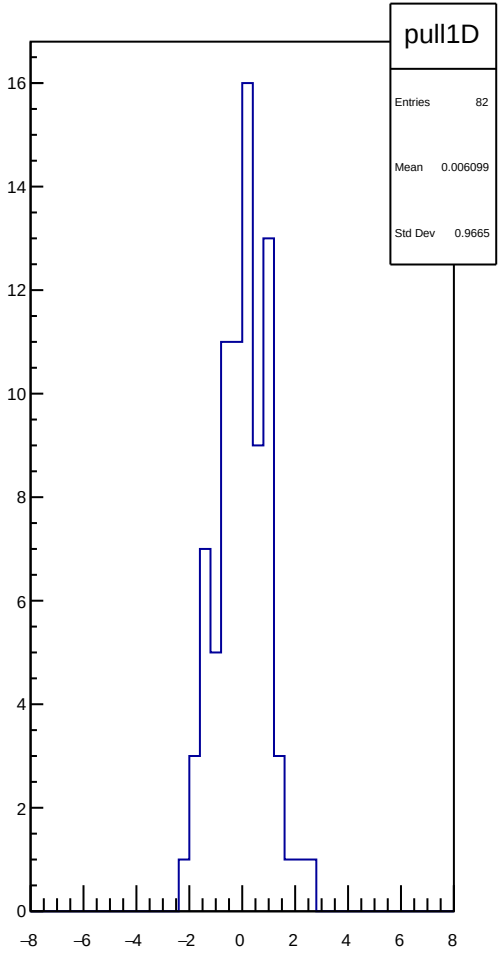

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 256.4 / 81
p0 2210 ± 1.736
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

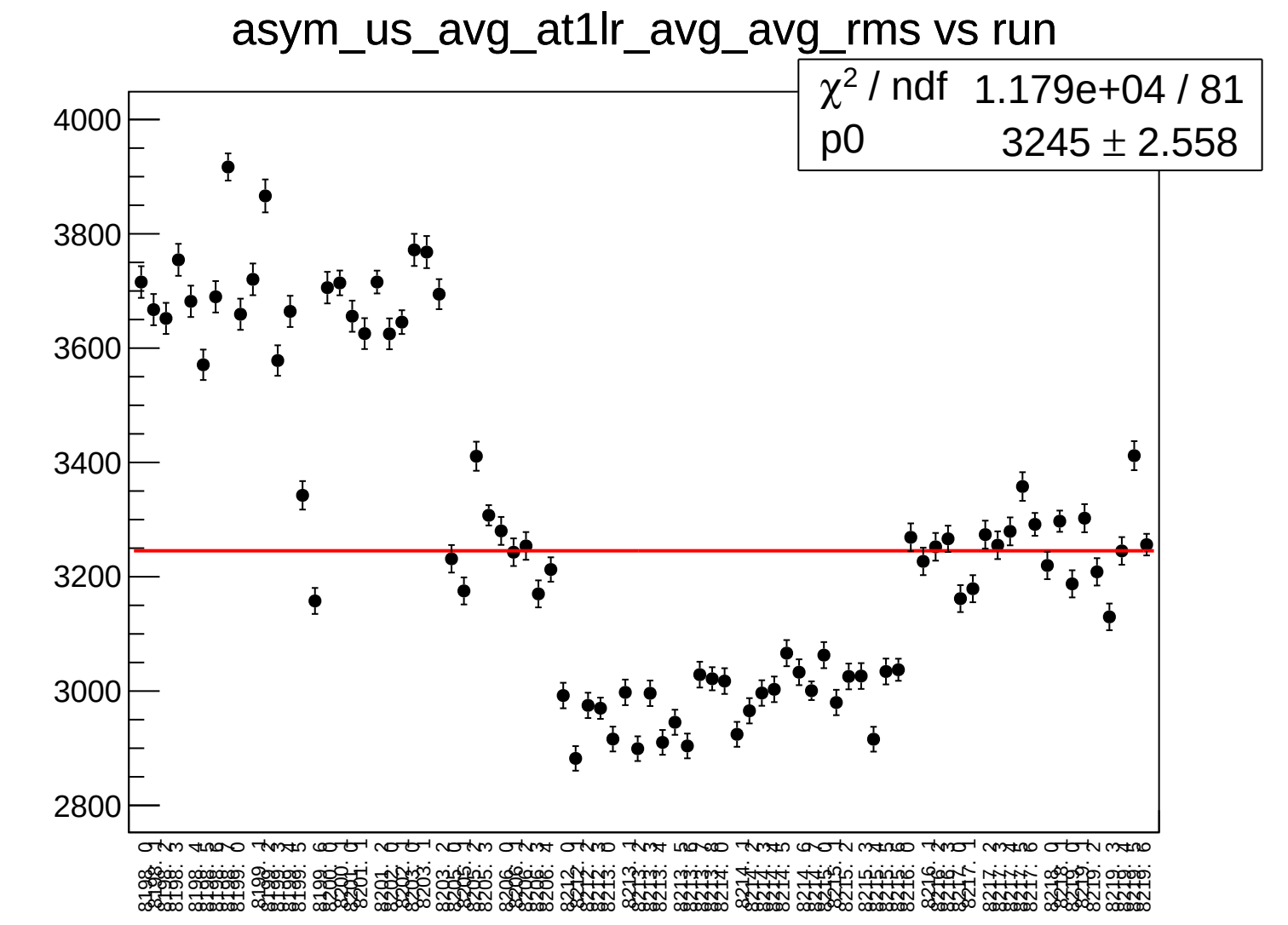

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.45 / 81
p0 450.2 ± 2459
pull
Entries 82
Mean 41
Std Dev 0

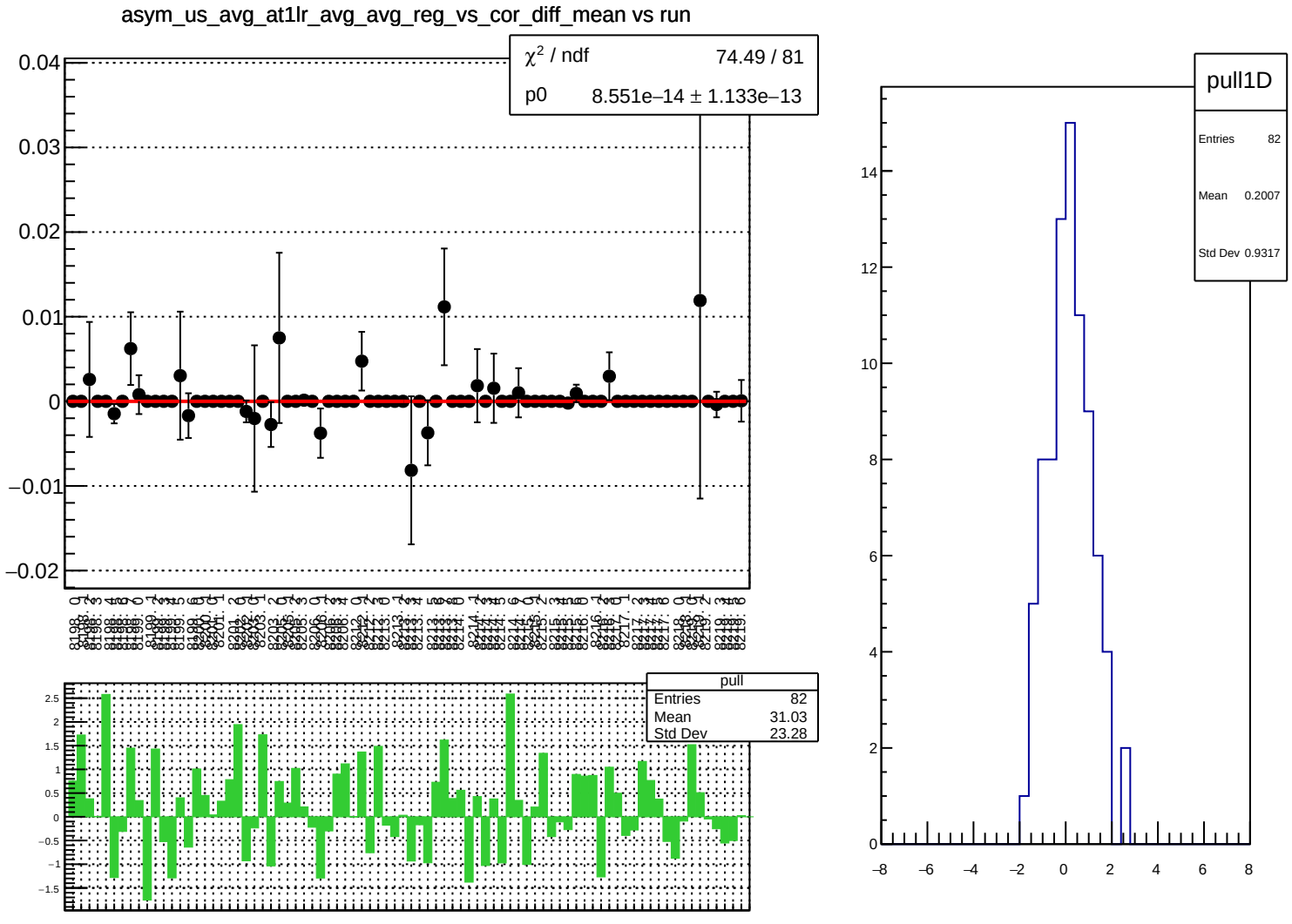

pull1D
Entries 82
Mean −0.02175
Std Dev 1.09

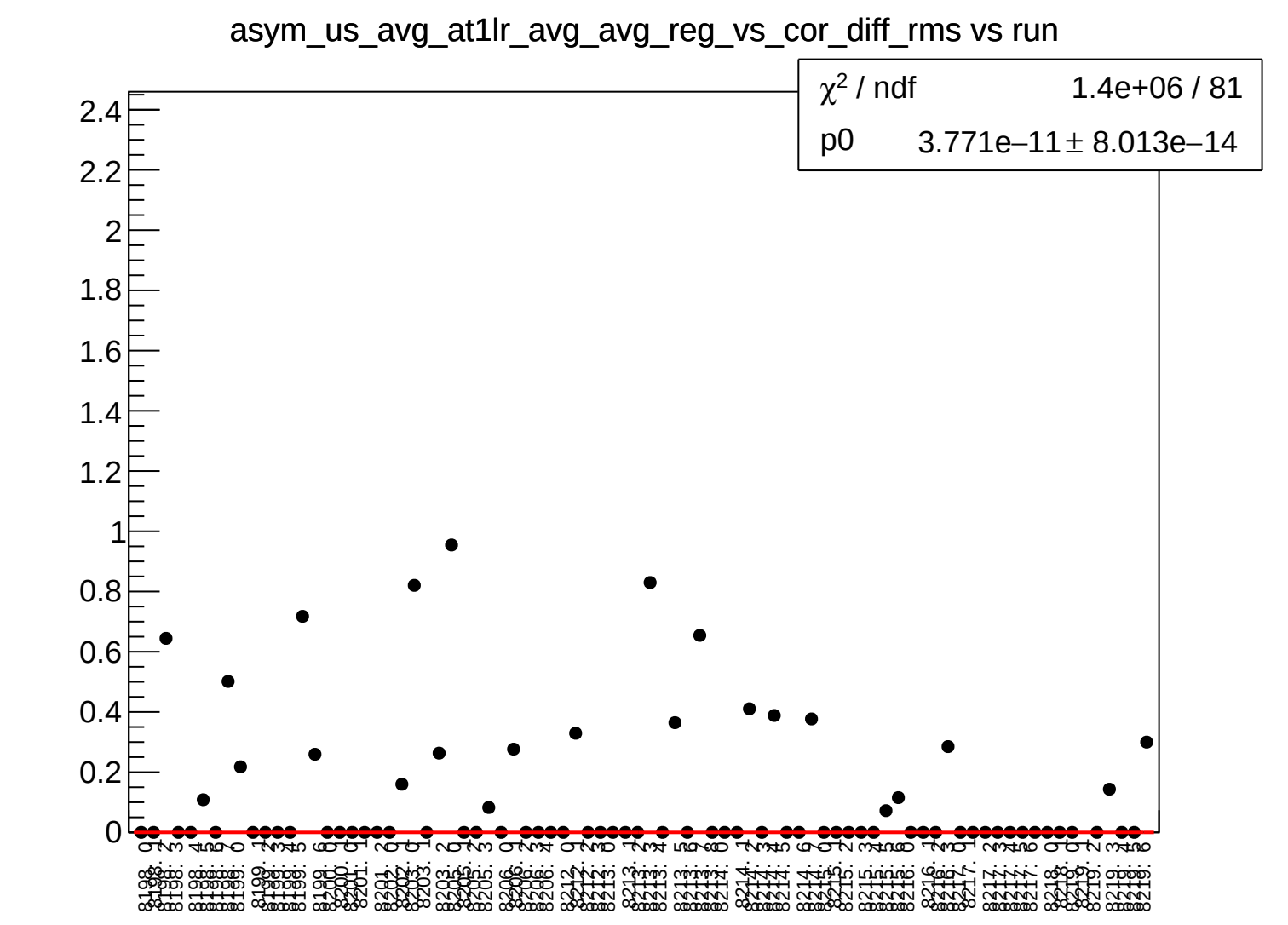

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.33e+04 / 81
p0 2191 ± 1.739
3000
2800
2600
2400
2200
2000
1800

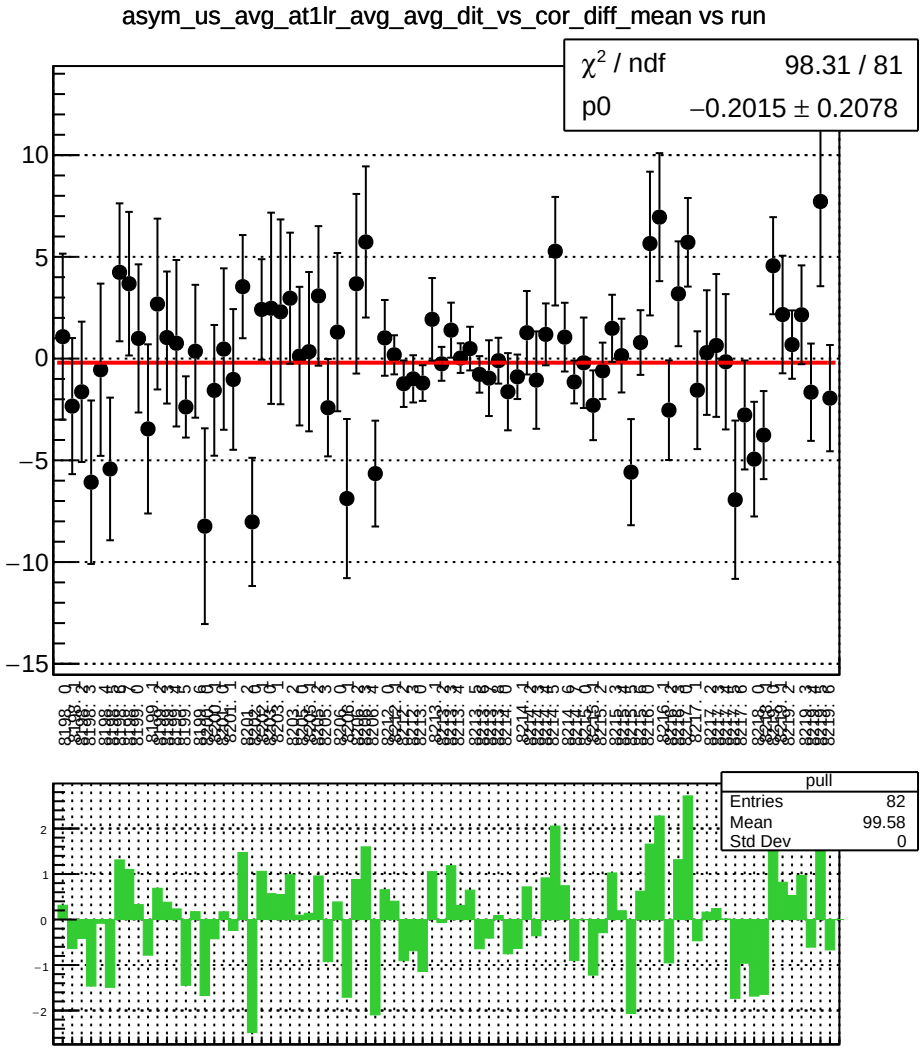

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 76.6 / 81
p0 1689 ± 3618
100
50
0
−50
−100
pull
Entries 82
Mean −113.3
Std Dev 0
2
1
0
−1
−2

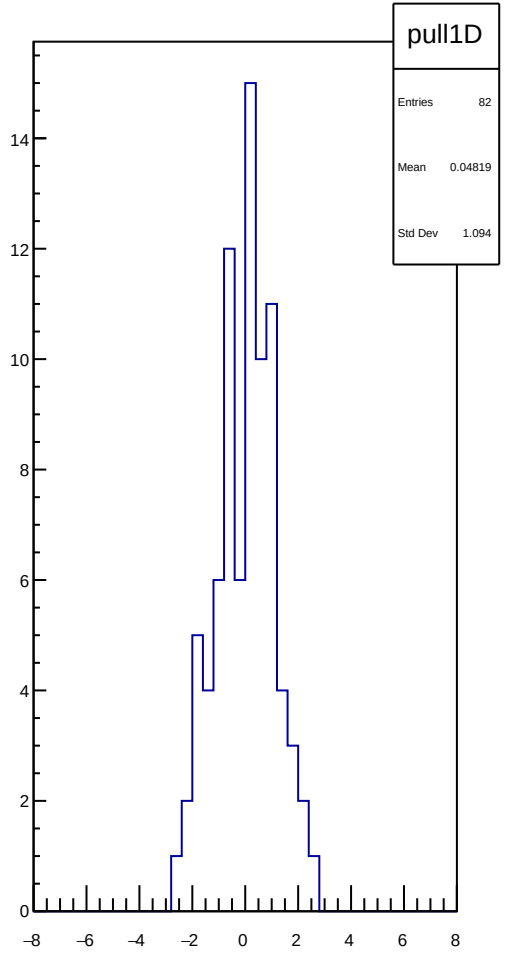

pull1D
Entries 82
Mean 0.006099
Std Dev 0.9665
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

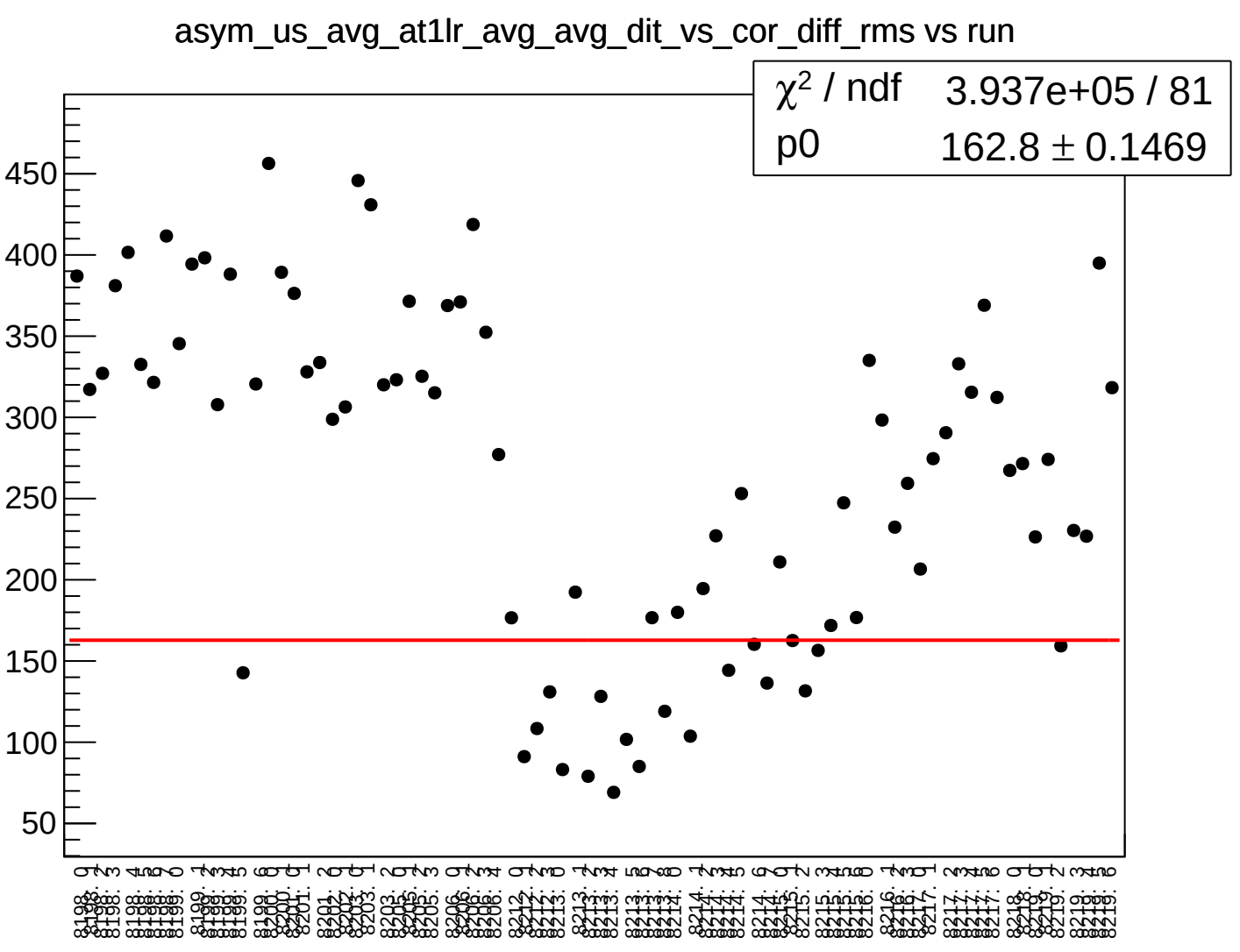

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1.179e+04 / 81
p0 3245 ± 2.558
4000
3800
3600
3400
3200
3000
2800

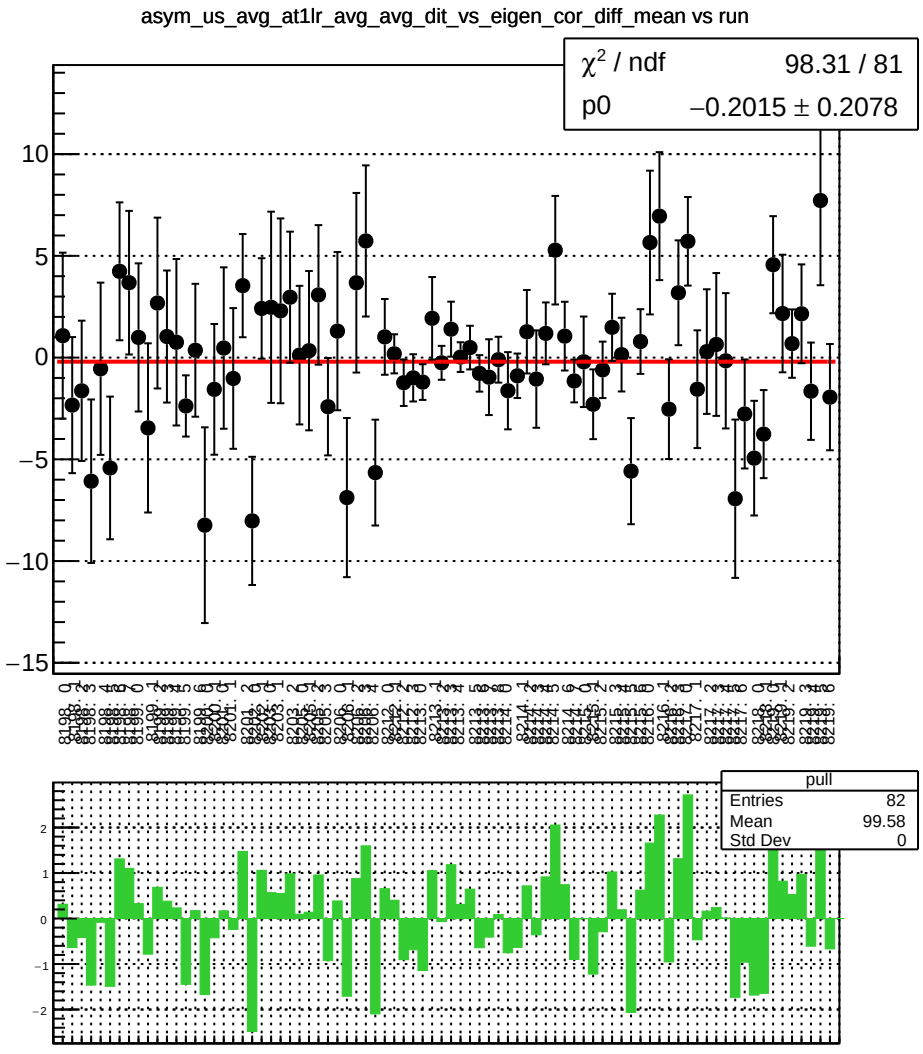

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.49 / 81
p0 8.551e−14 ± 1.133e−13
pull
Entries 82
Mean 31.03
Std Dev 23.28
pull1D
Entries 82
Mean 0.2007
Std Dev 0.9317

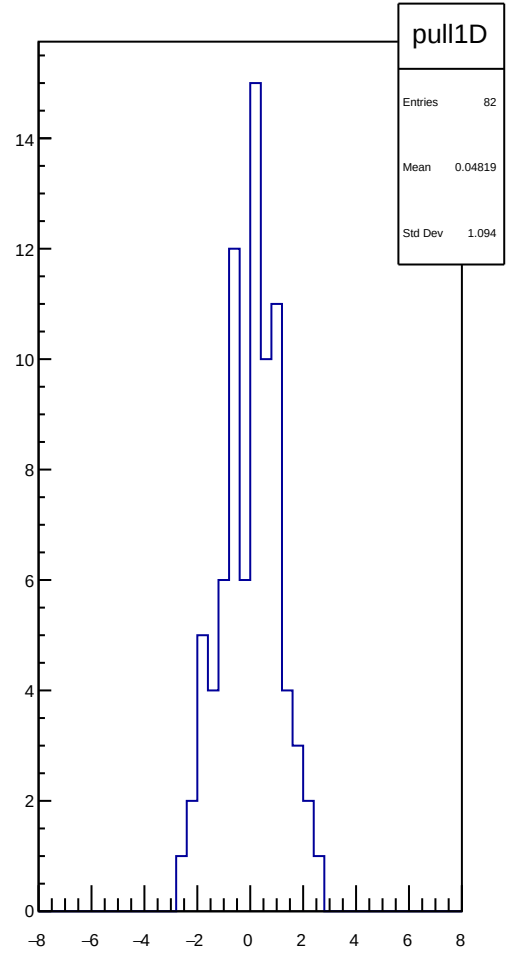

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.4e+06 / 81
p0 3.771e−11 ± 8.013e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

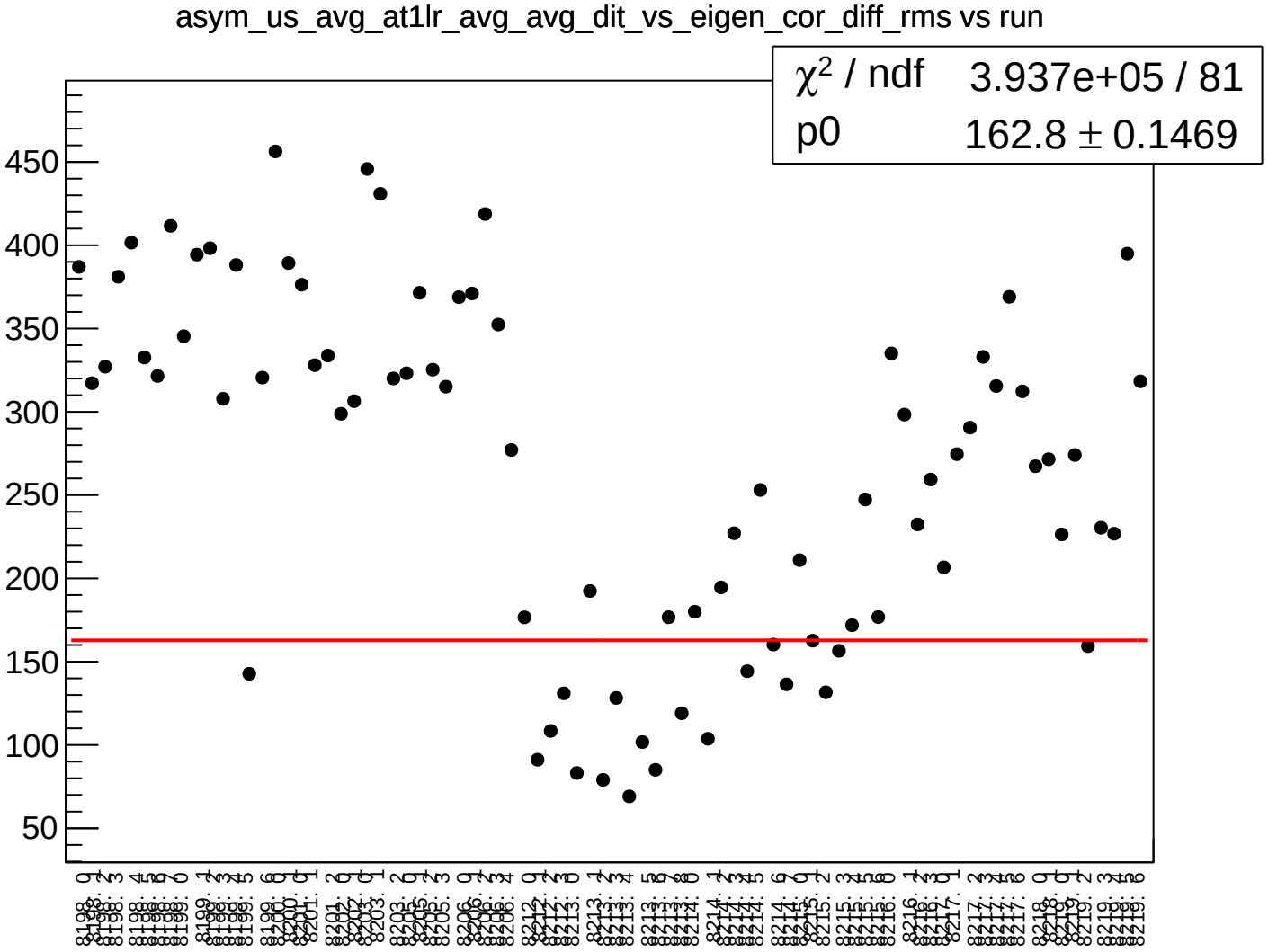

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.31 / 81
p0 −0.2015 ± 0.2078
pull
Entries 82
Mean 99.58
Std Dev 0

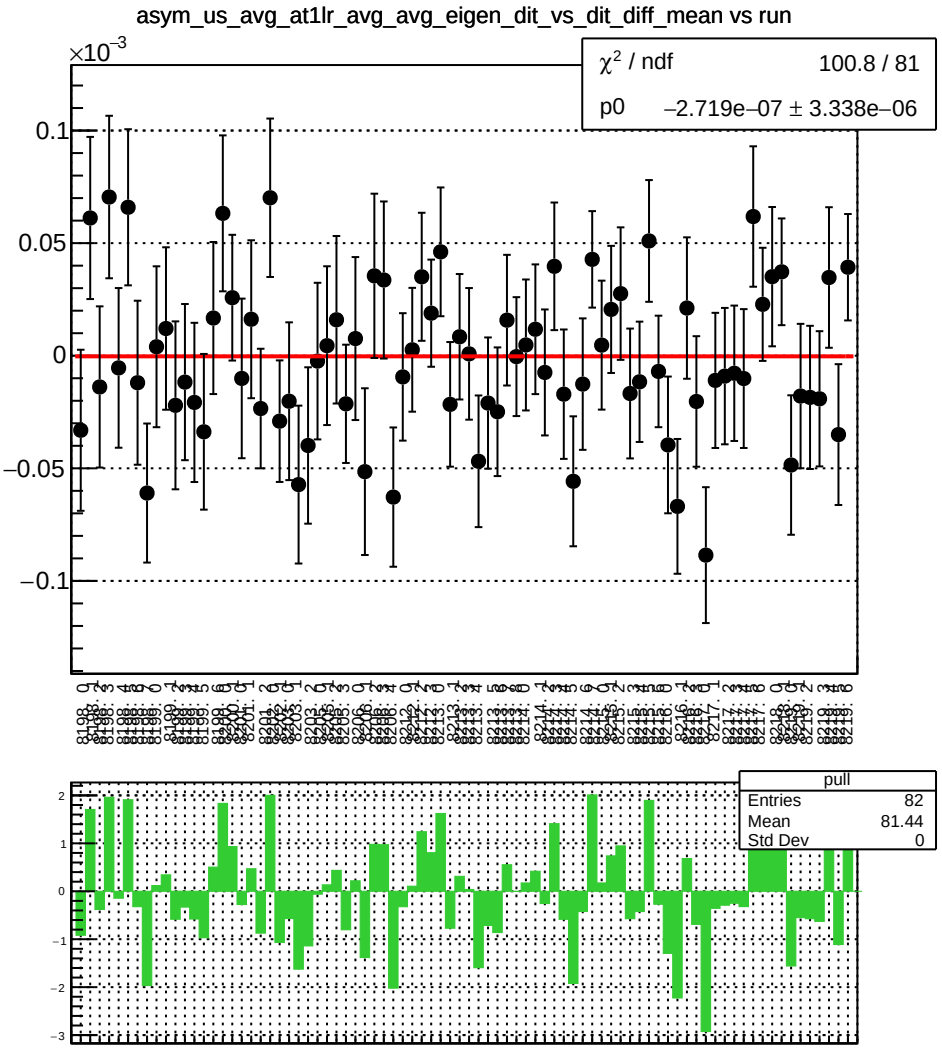

pull1D
Entries 82
Mean 0.04819
Std Dev 1.094

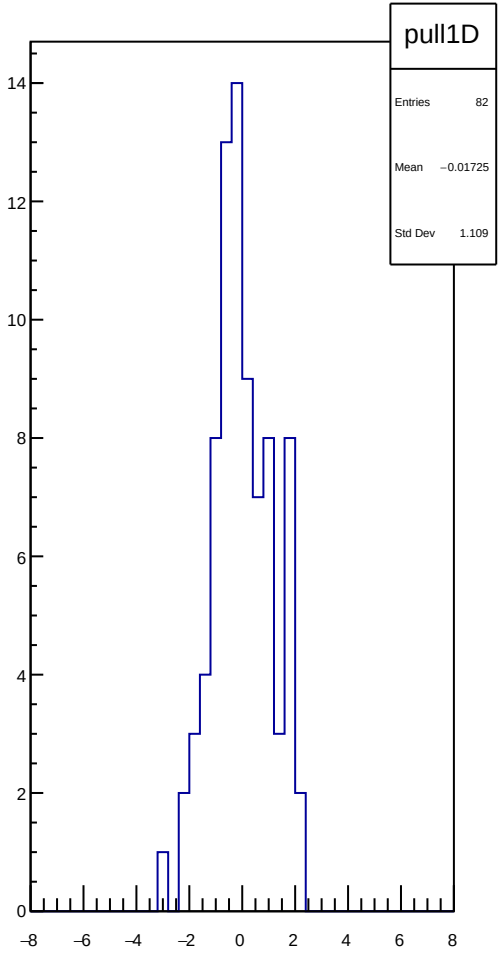

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.937e+05 / 81
p0 162.8 ± 0.1469
450
400
350
300
250
200
150
100
50

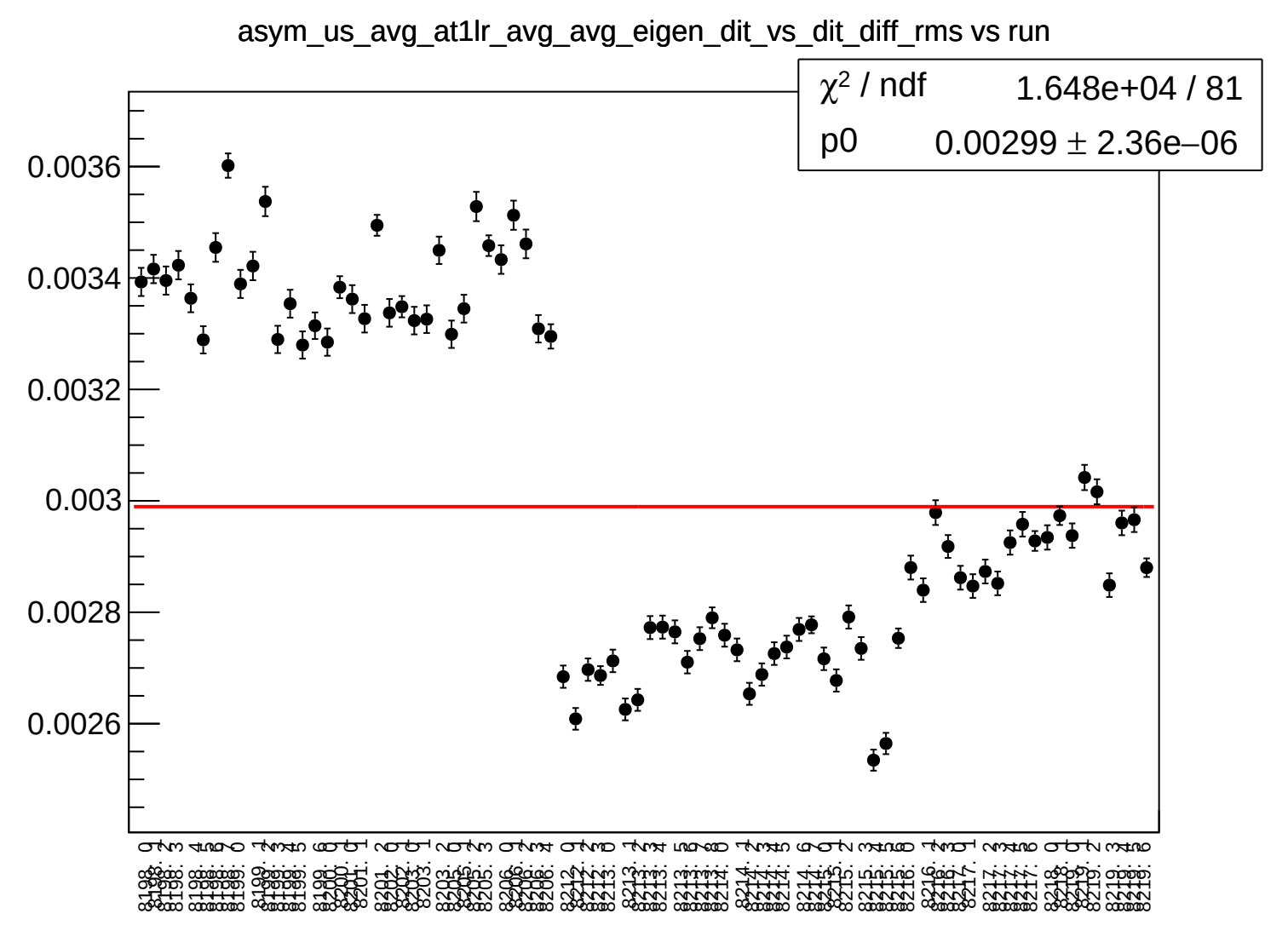

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.31 / 81
p0 −0.2015 ± 0.2078
pull
Entries 82
Mean 99.58
Std Dev 0

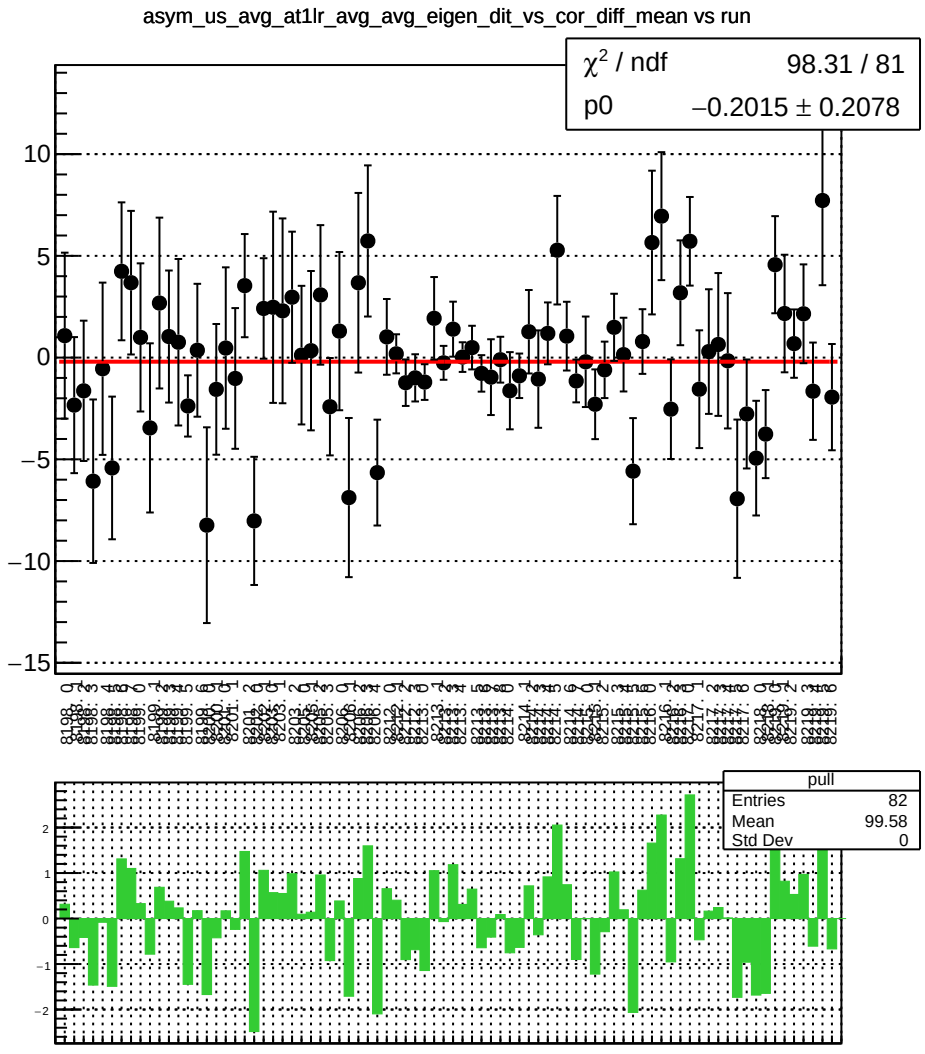

pull1D
Entries 82
Mean 0.04819
Std Dev 1.094

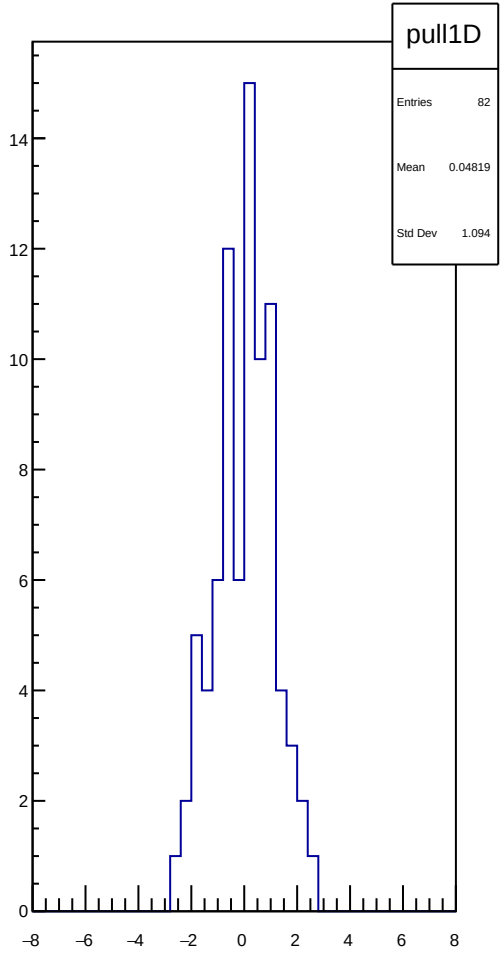

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.937e+05 / 81
p0 162.8 ± 0.1469
450
400
350
300
250
200
150
100
50

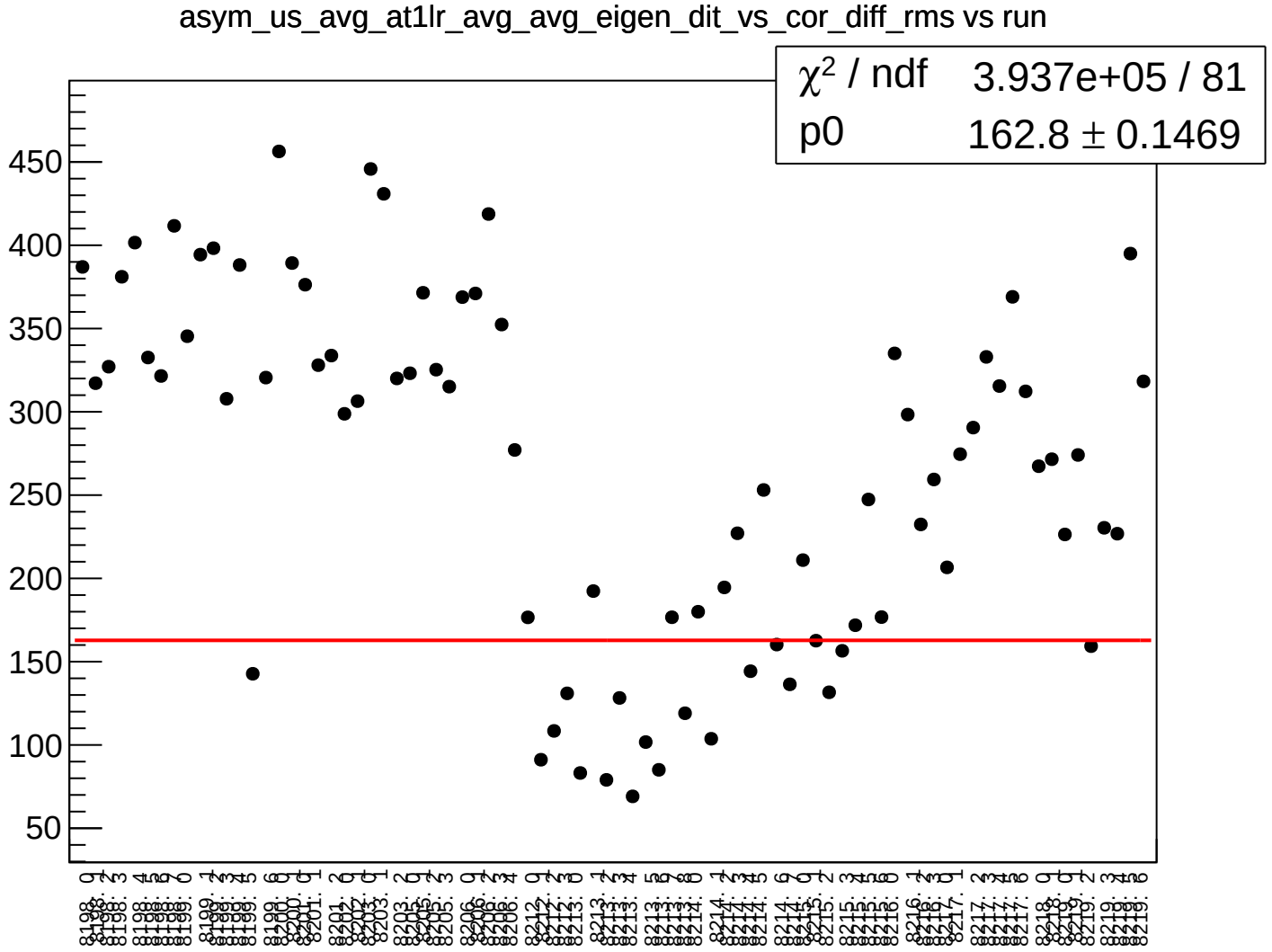

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 100.8 / 81
p0 −2.719e−07 ± 3.338e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean 81.44
Std Dev 0
2
1
0
−1
−2
−3

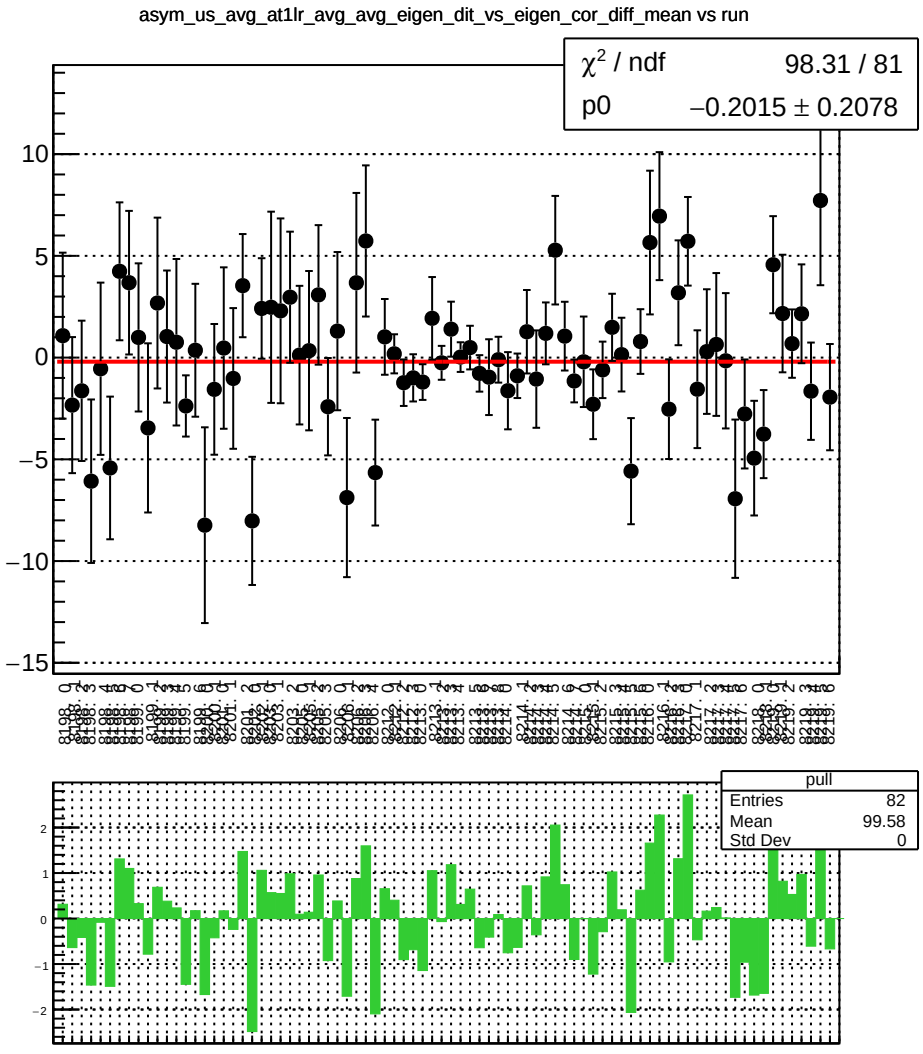

pull1D
Entries 82
Mean −0.01725
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

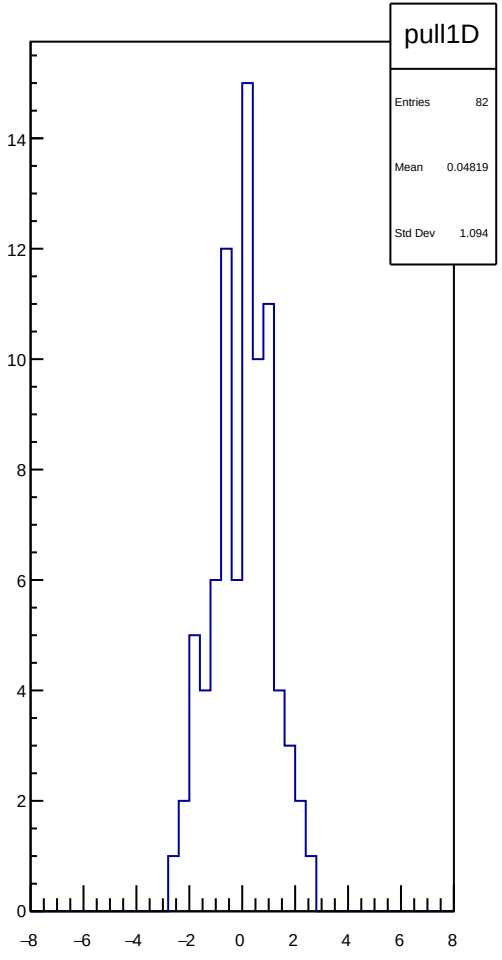

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.648e+04 / 81
p0 0.00299 ± 2.36e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

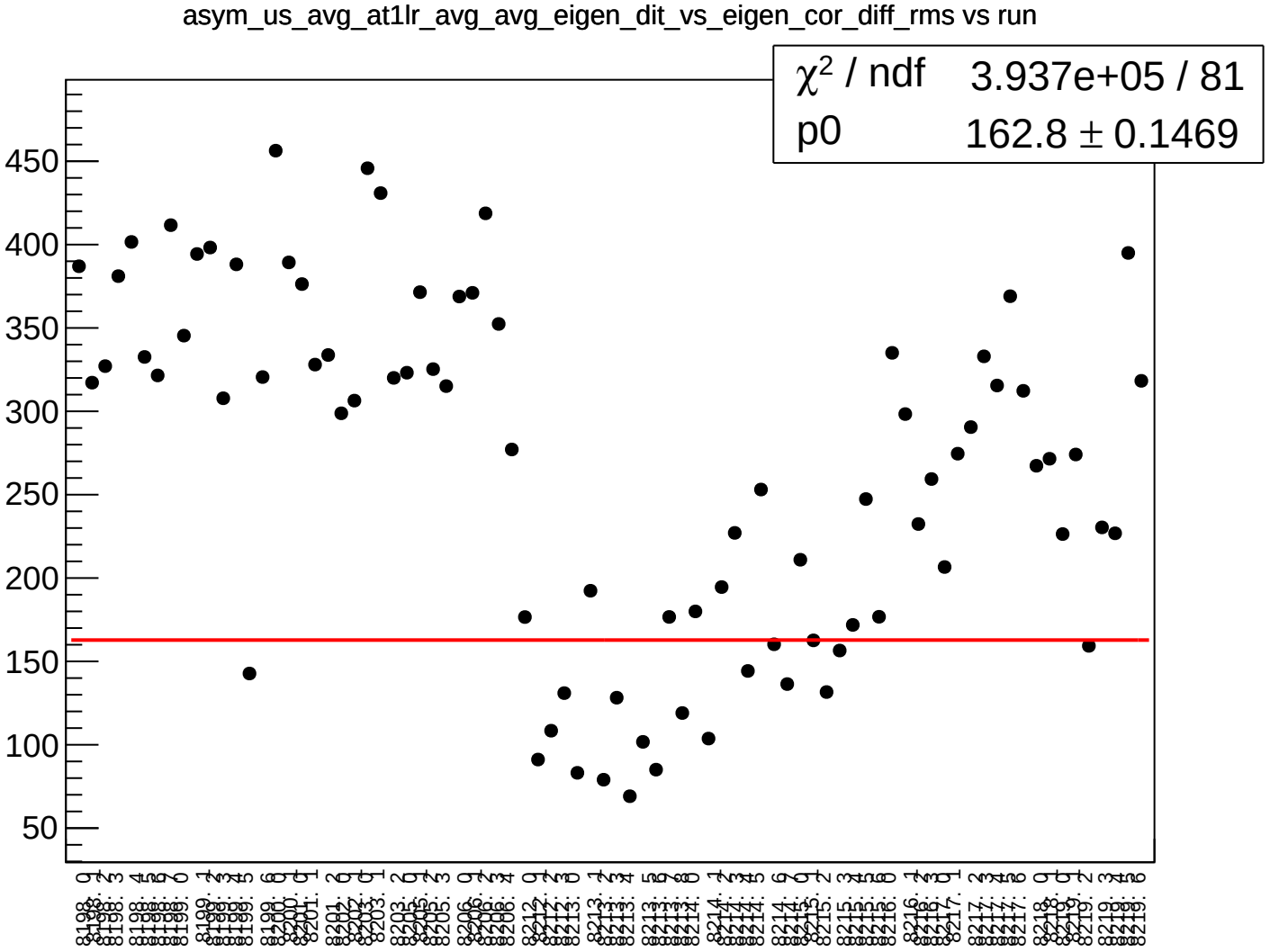

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.31 / 81
p0 −0.2015 ± 0.2078
pull
Entries 82
Mean 99.58
Std Dev 0

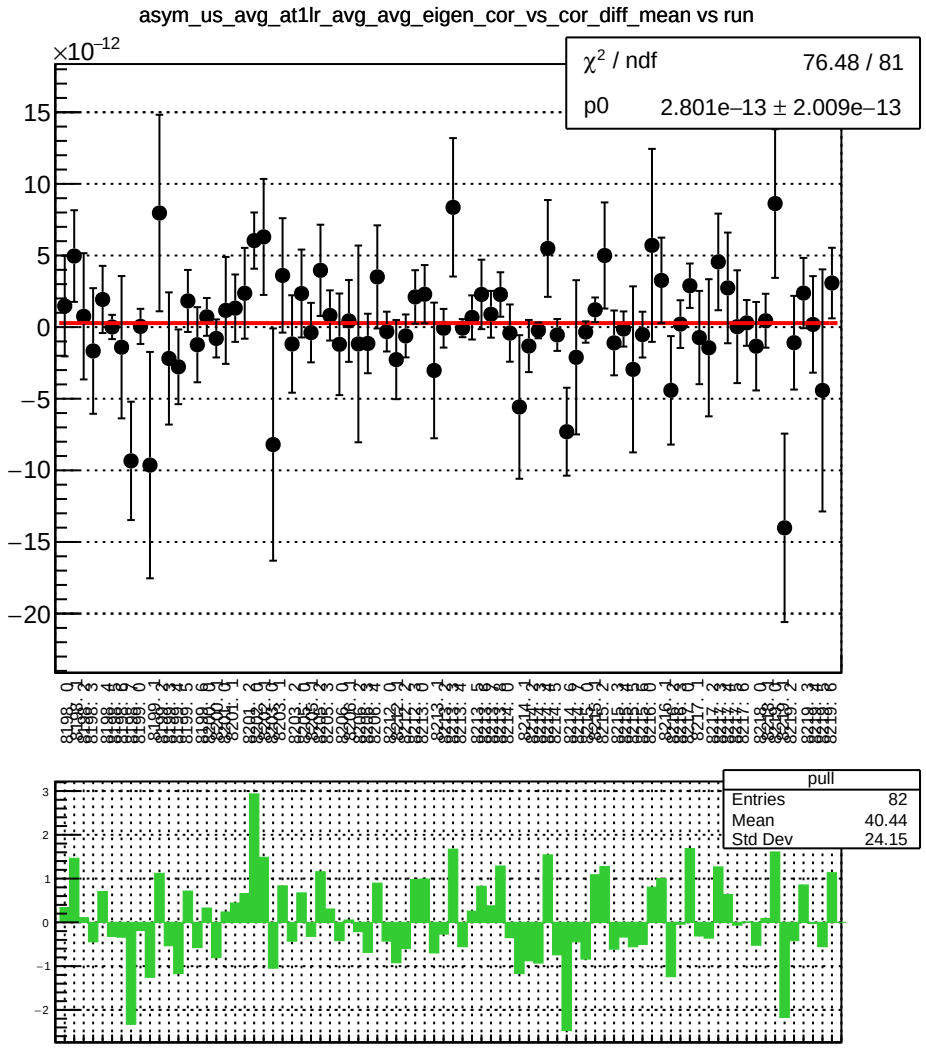

pull1D
Entries 82
Mean 0.04819
Std Dev 1.094

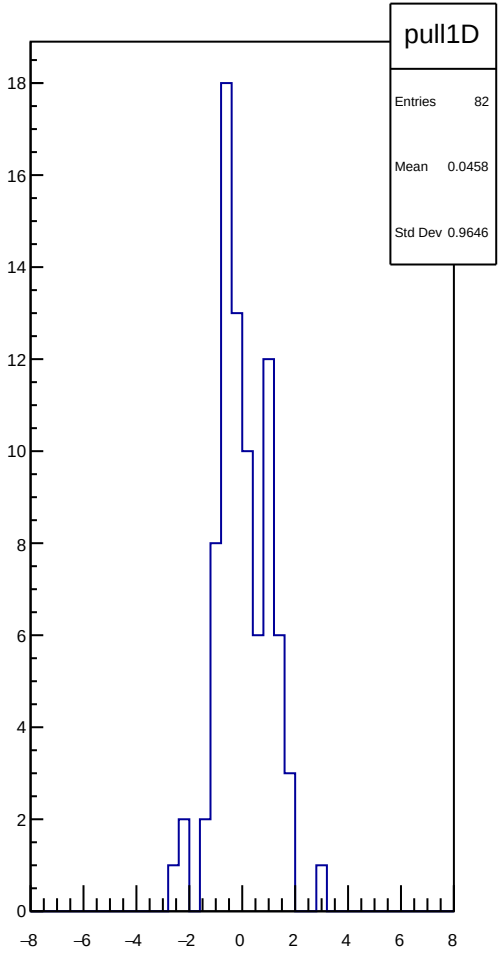

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.937e+05 / 81
p0 162.8 ± 0.1469
450
400
350
300
250
200
150
100
50

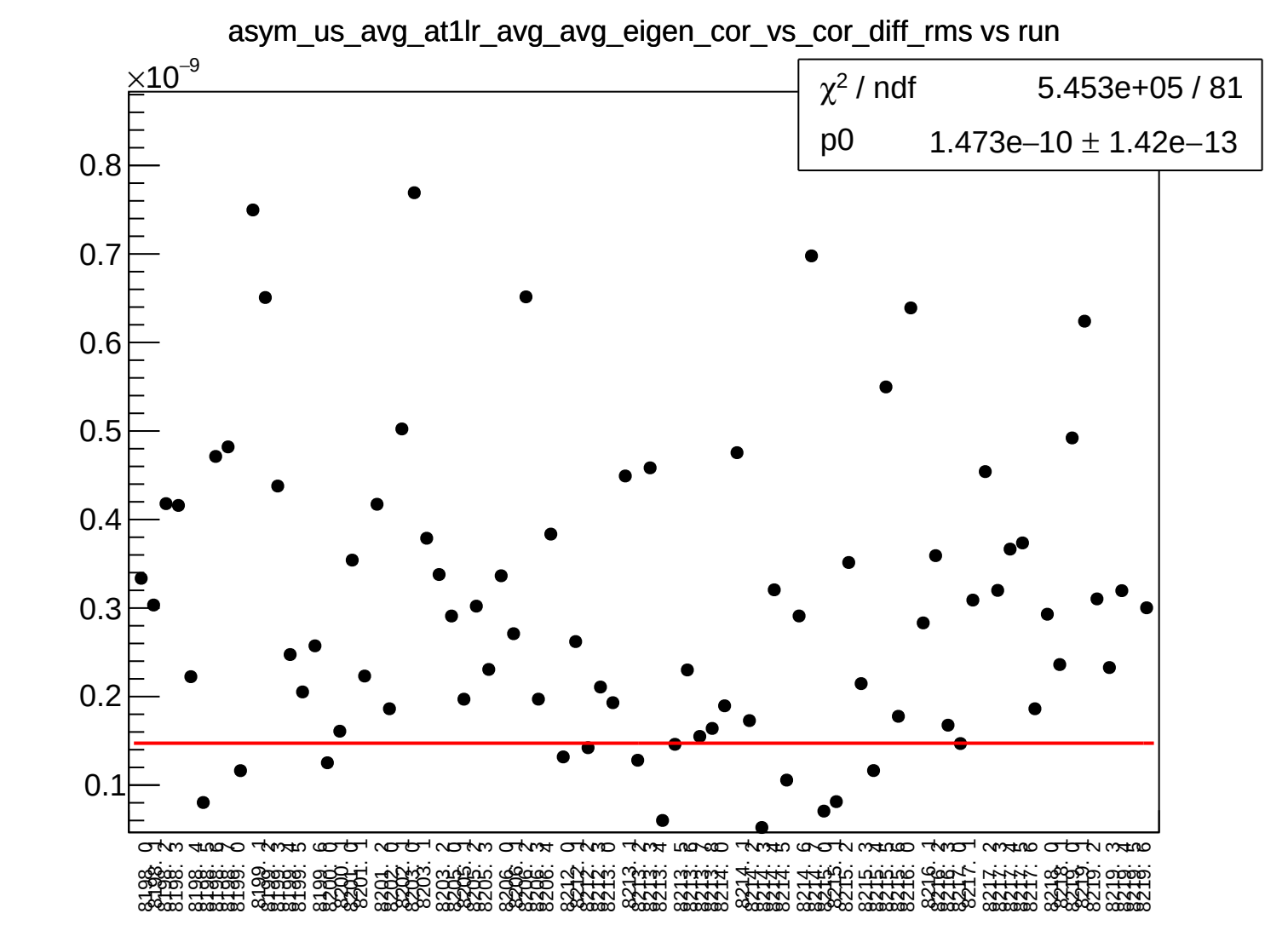

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.31 / 81
p0 −0.2015 ± 0.2078
pull
Entries 82
Mean 99.58
Std Dev 0

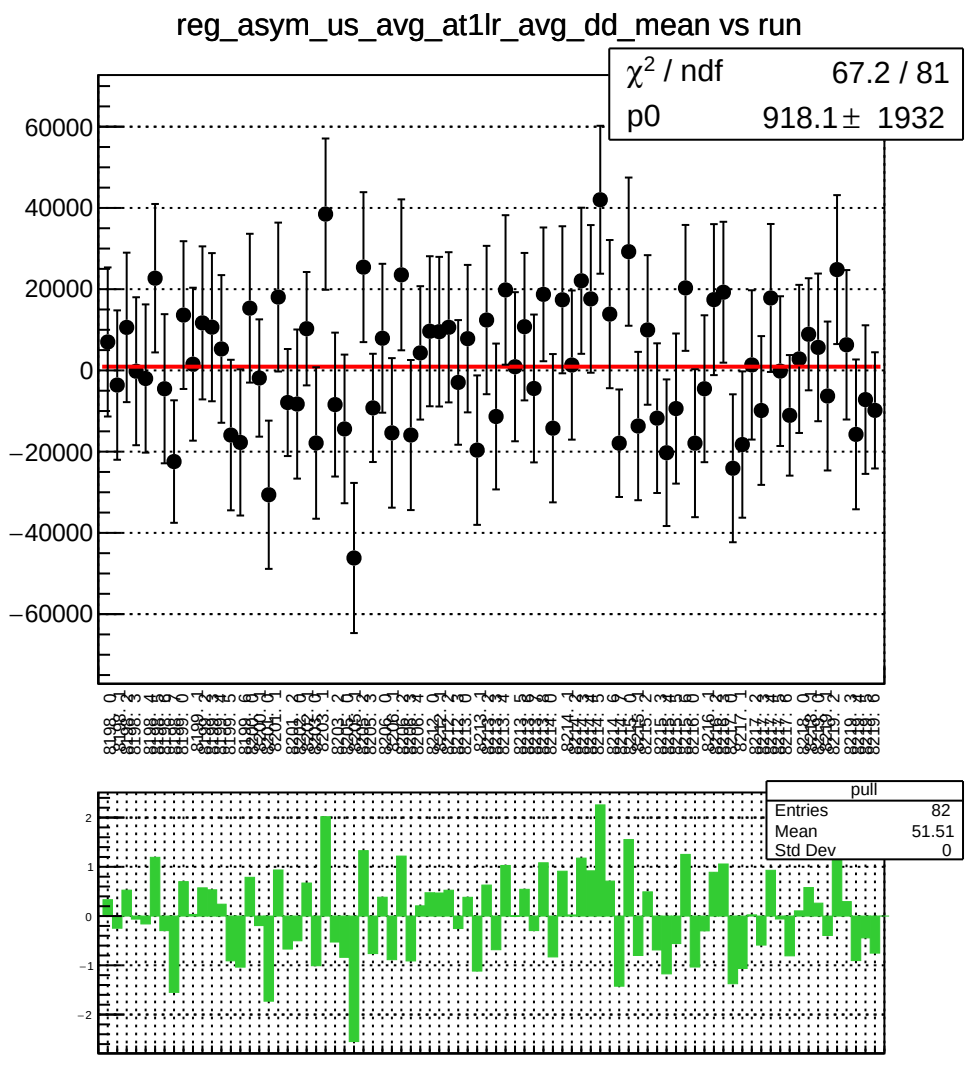

pull1D
Entries 82
Mean 0.04819
Std Dev 1.094

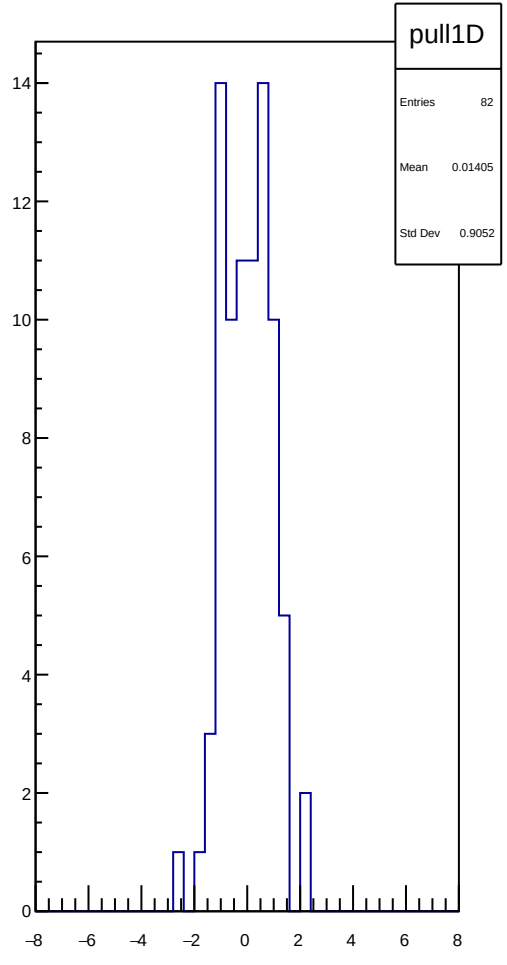

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.937e+05 / 81
p0 162.8 ± 0.1469
450
400
350
300
250
200
150
100
50

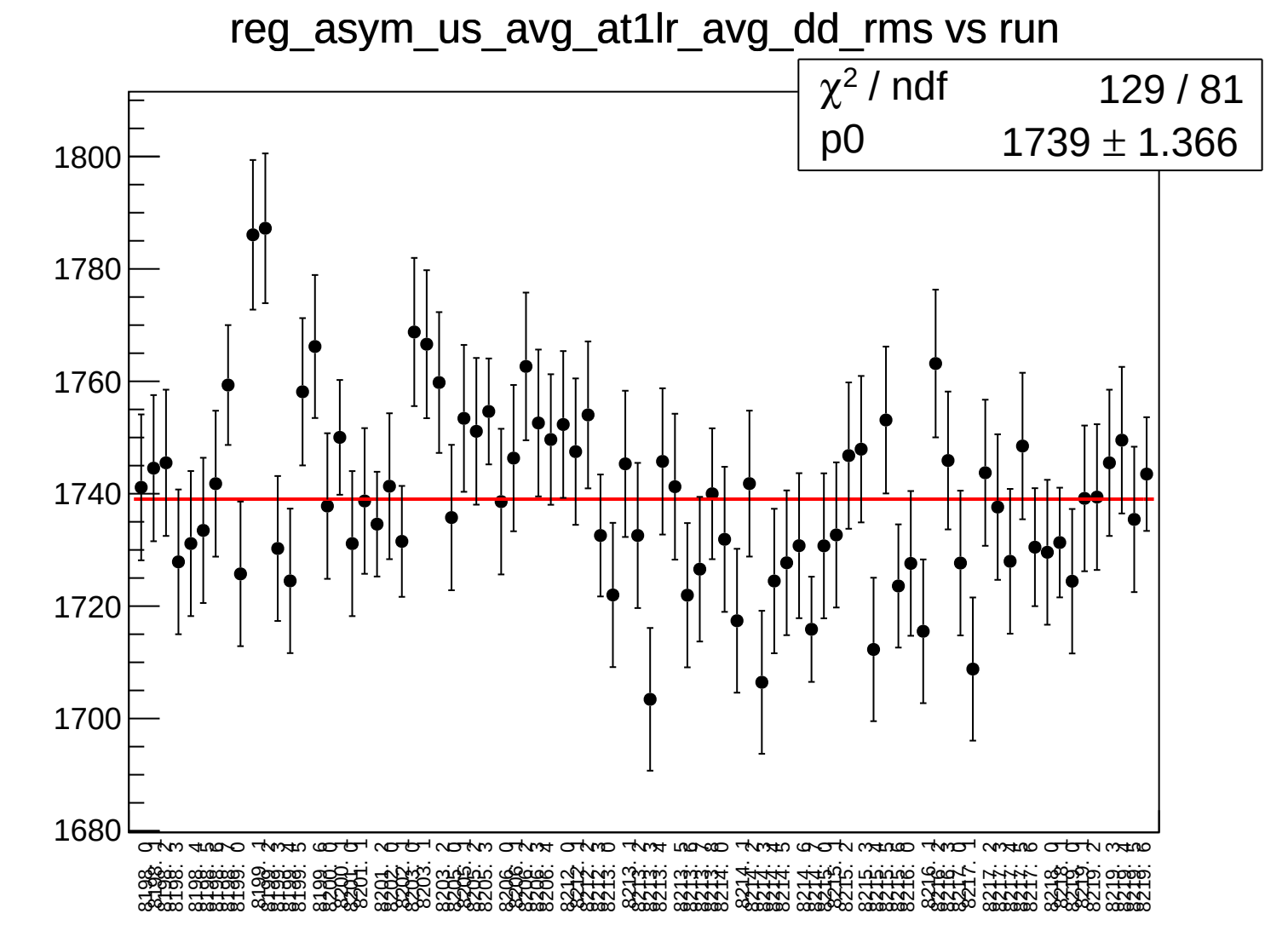

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.48 / 81
p0 2.801e−13 ± 2.009e−13
pull
Entries 82
Mean 40.44
Std Dev 24.15

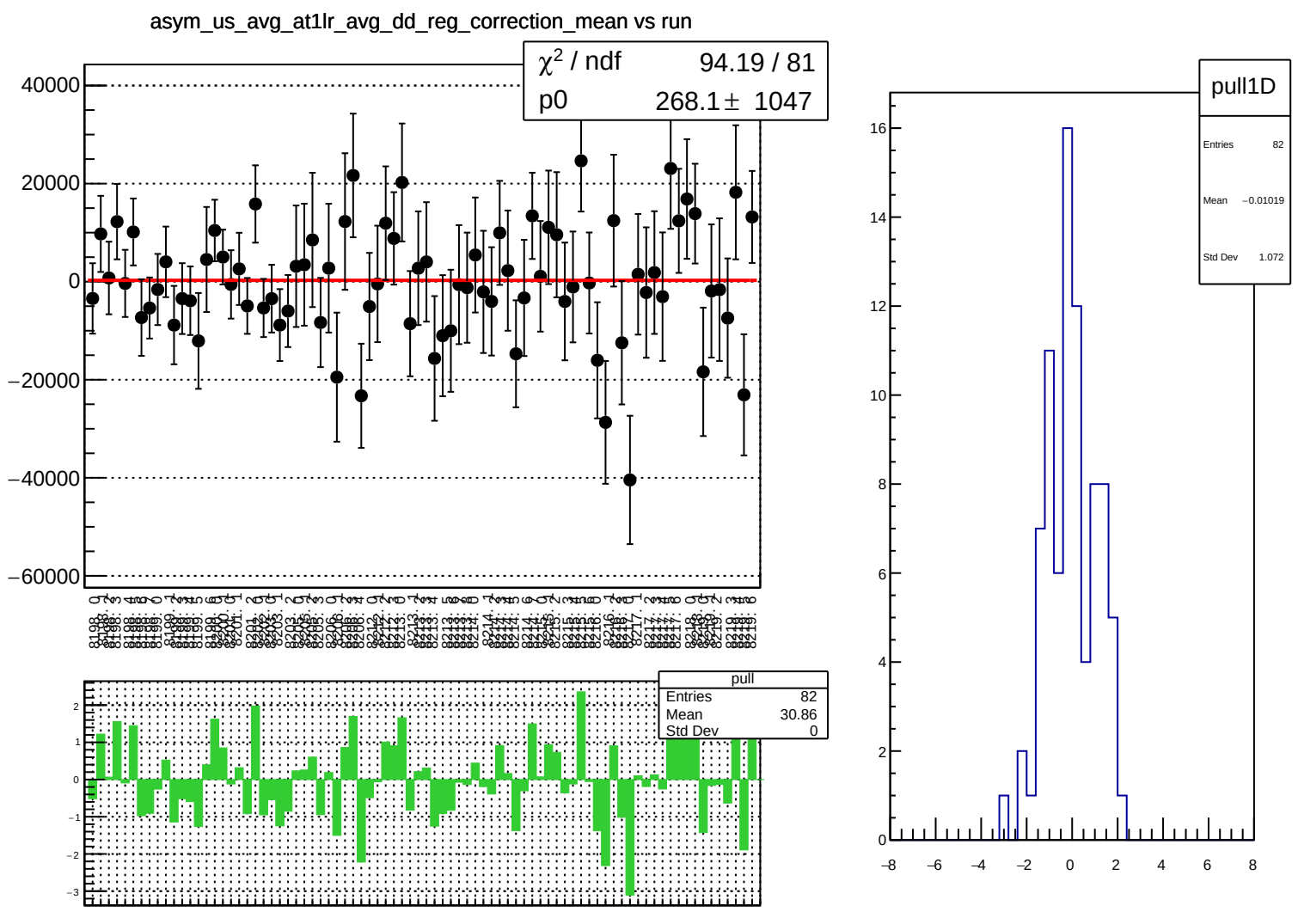

pull1D
Entries 82
Mean 0.0458
Std Dev 0.9646

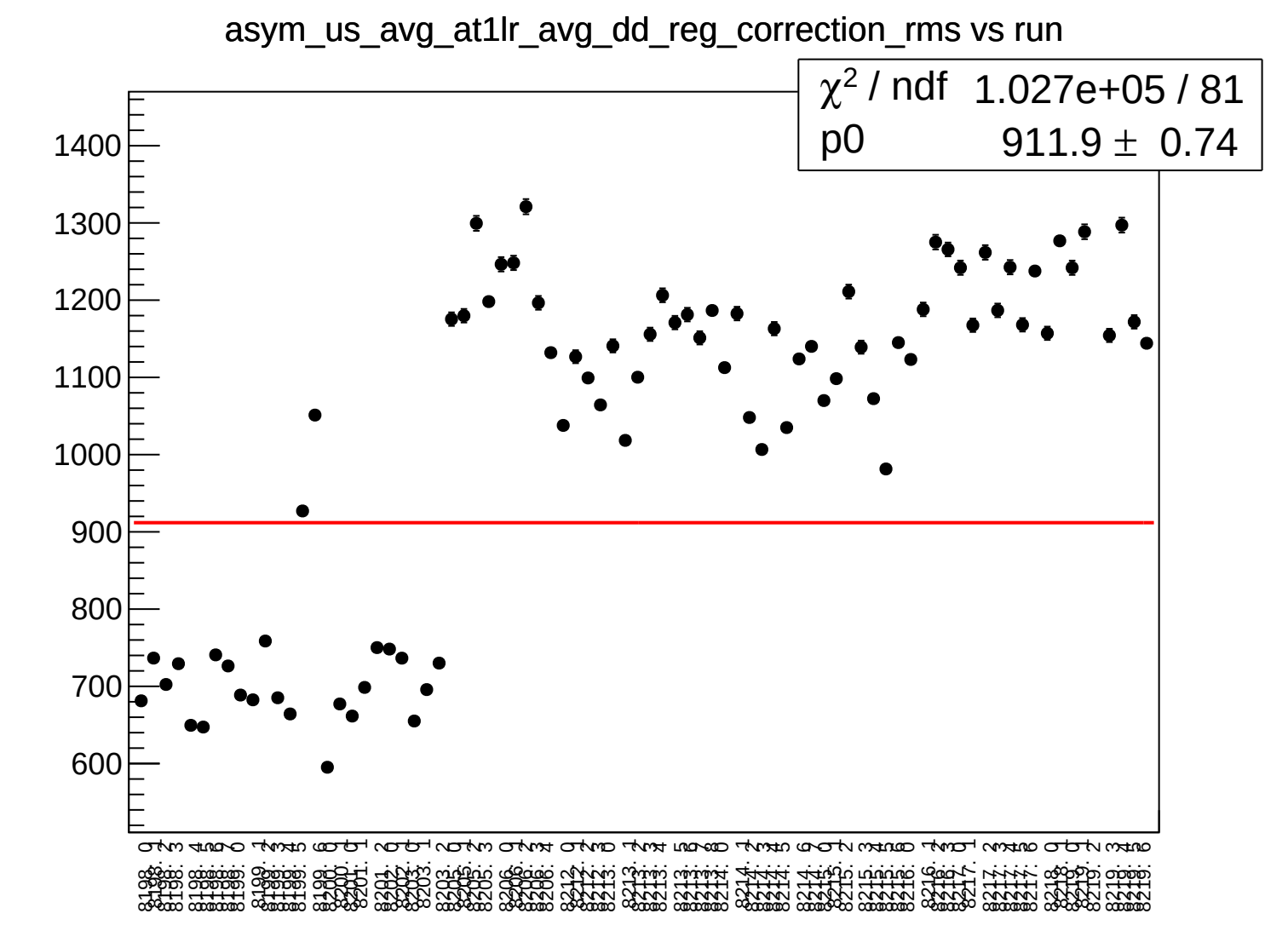

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.453e+05 / 81
p0 1.473e−10 ± 1.42e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

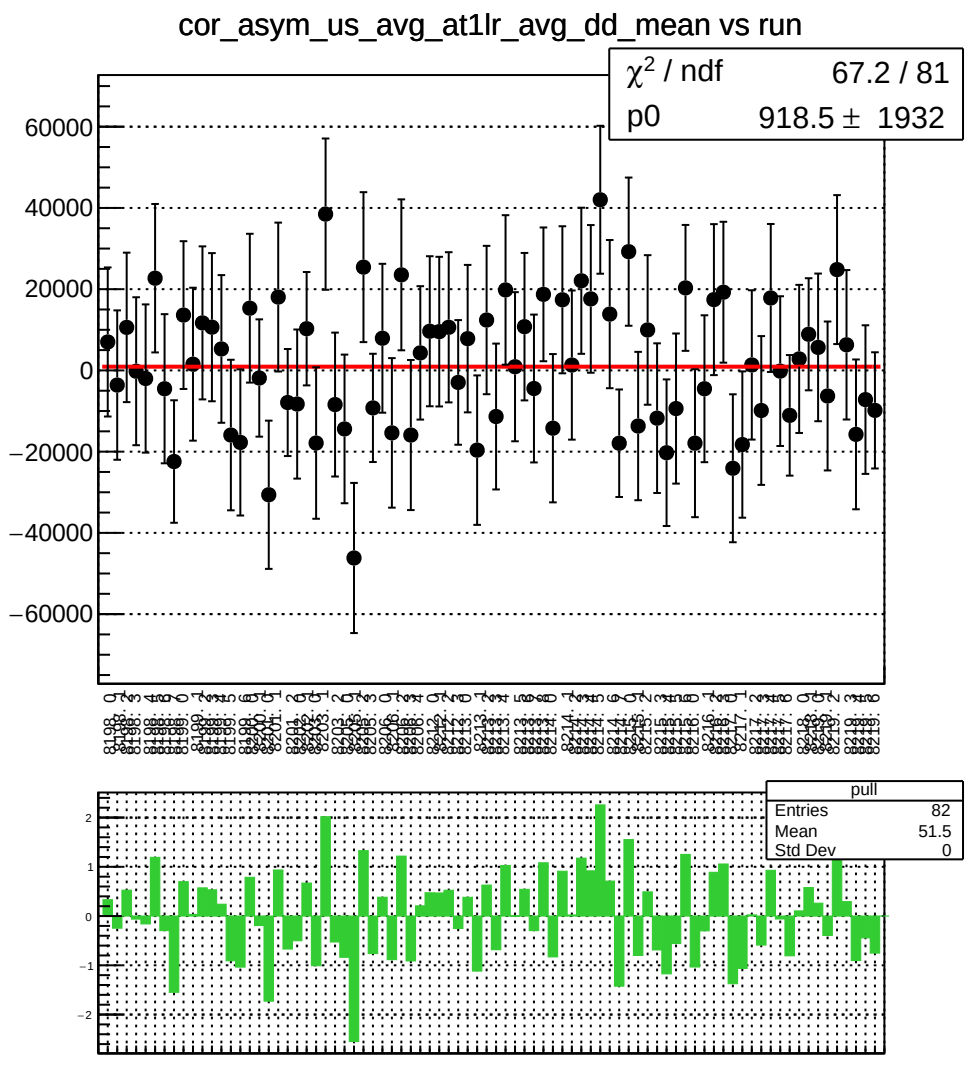

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 67.2 / 81
p0 918.1 ± 1932
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 51.51
Std Dev 0
2
1
0
−1
−2

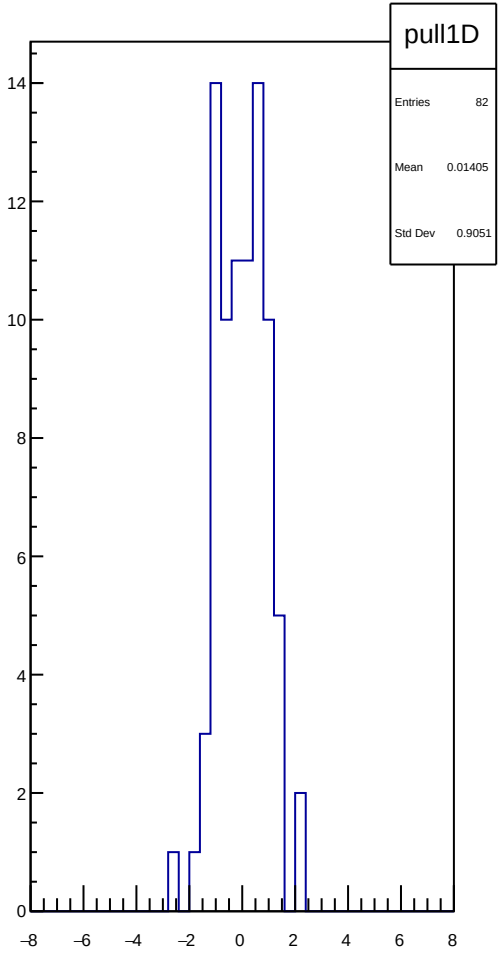

pull1D
Entries 82
Mean 0.01405
Std Dev 0.9052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

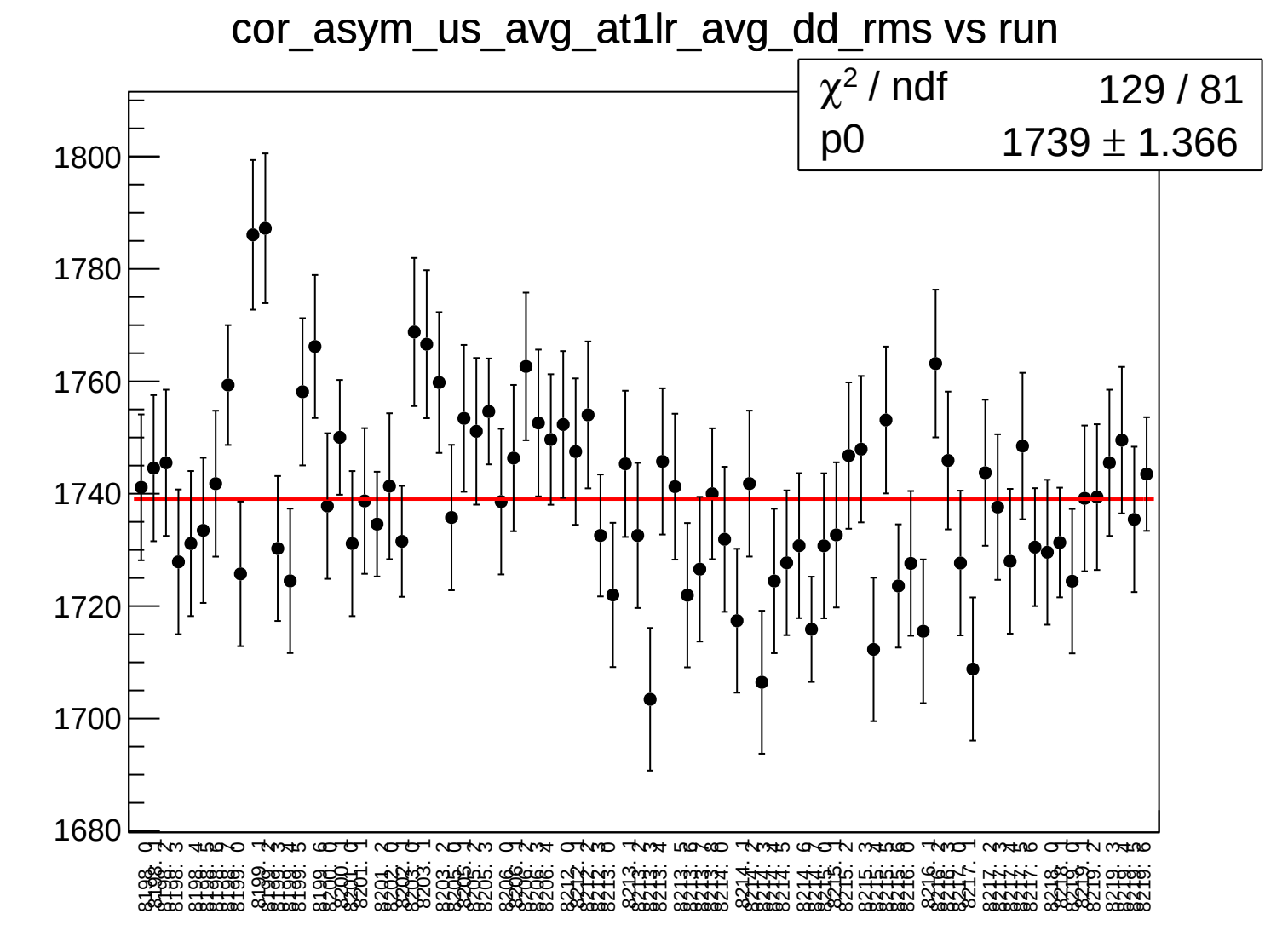

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 129 / 81
p0 1739 ± 1.366
1800
1780
1760
1740
1720
1700
1680

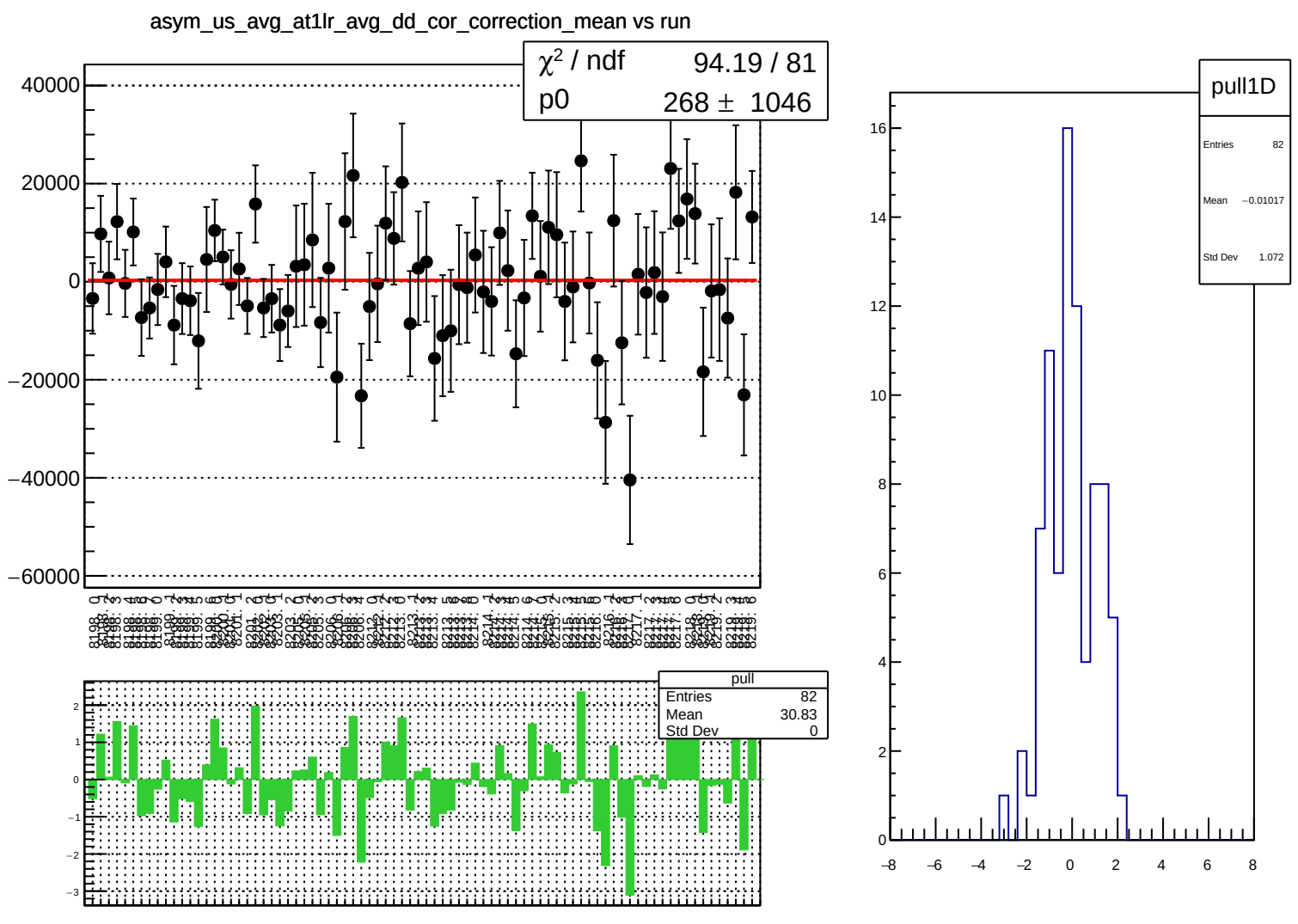

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 94.19 / 81
p0 268.1 ± 1047
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 30.86
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.01019
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

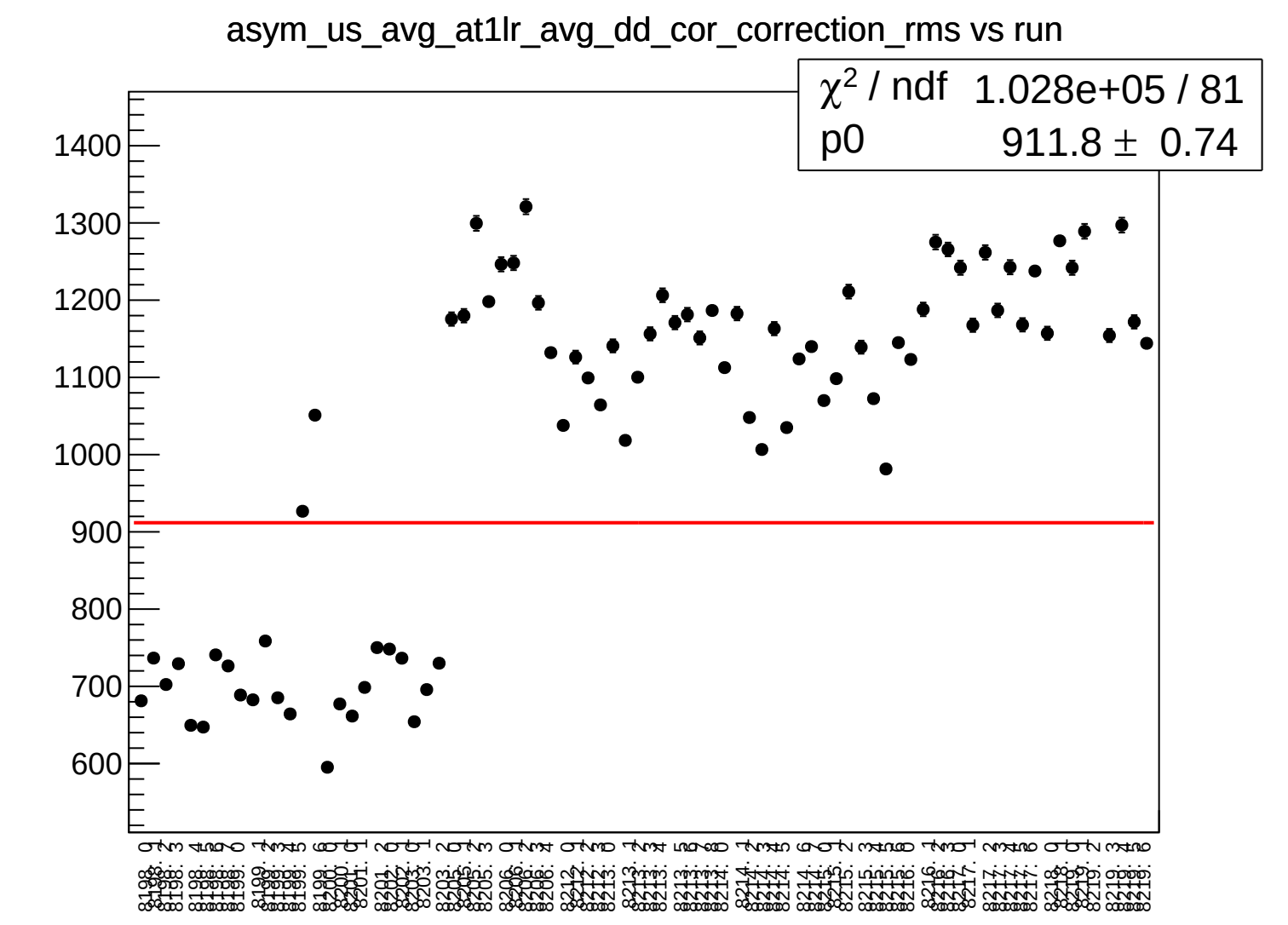

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.027e+05 / 81
p0 911.9 ± 0.74
1400
1300
1200
1100
1000
900
800
700
600

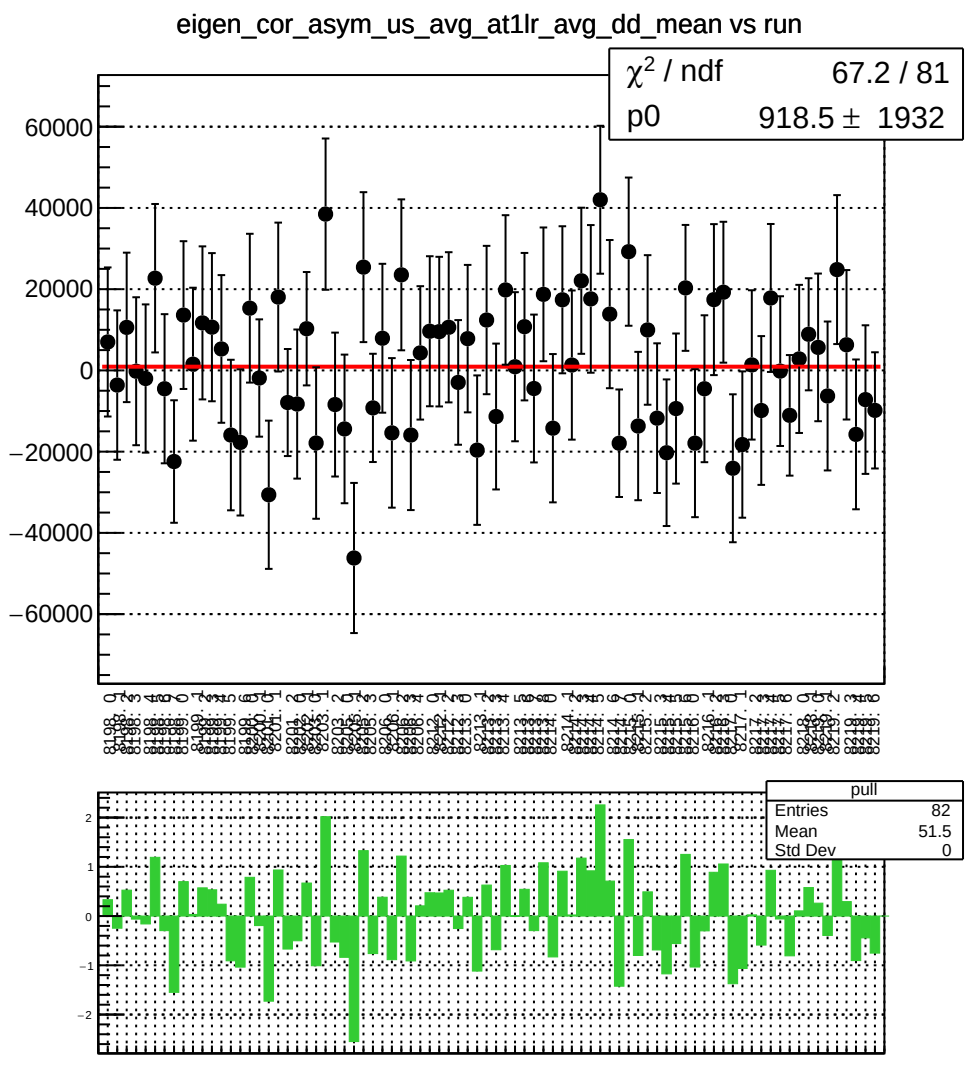

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 67.2 / 81
p0 918.5 ± 1932
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 51.5
Std Dev 0
2
1
0
−1
−2

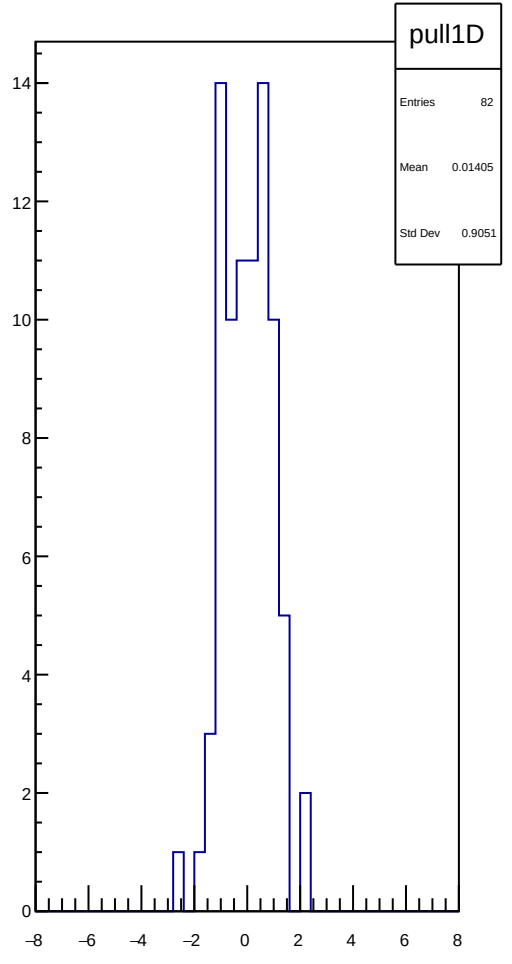

pull1D
Entries 82
Mean 0.01405
Std Dev 0.9051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

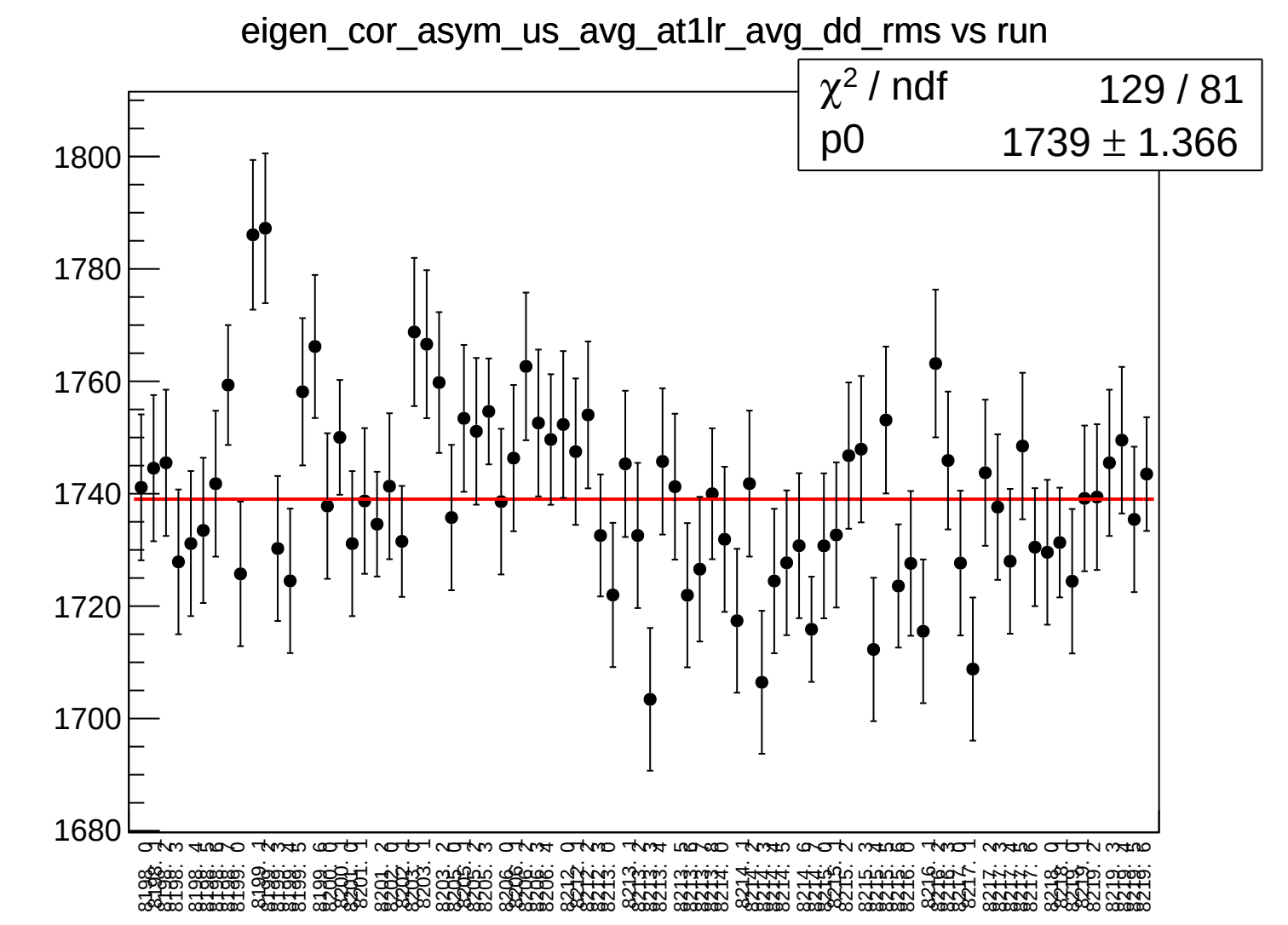

cor_asym_us_avg_at1lr_avg_dd_rms vs run
$\chi^2$ / ndf 129 / 81
p0 1739 ± 1.366
1800
1780
1760
1740
1720
1700
1680

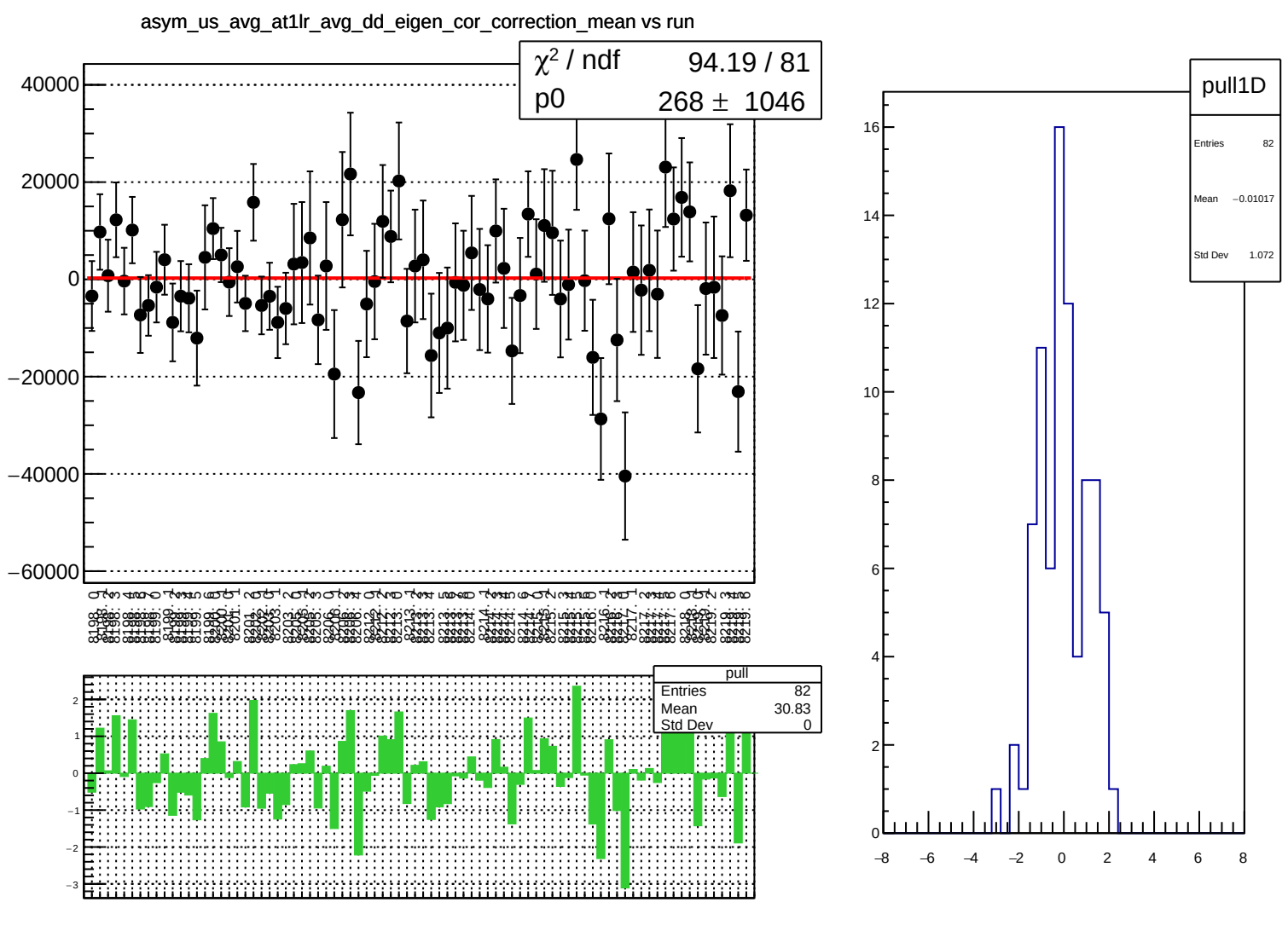

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 94.19 / 81
p0 268 ± 1046
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 30.83
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.01017
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

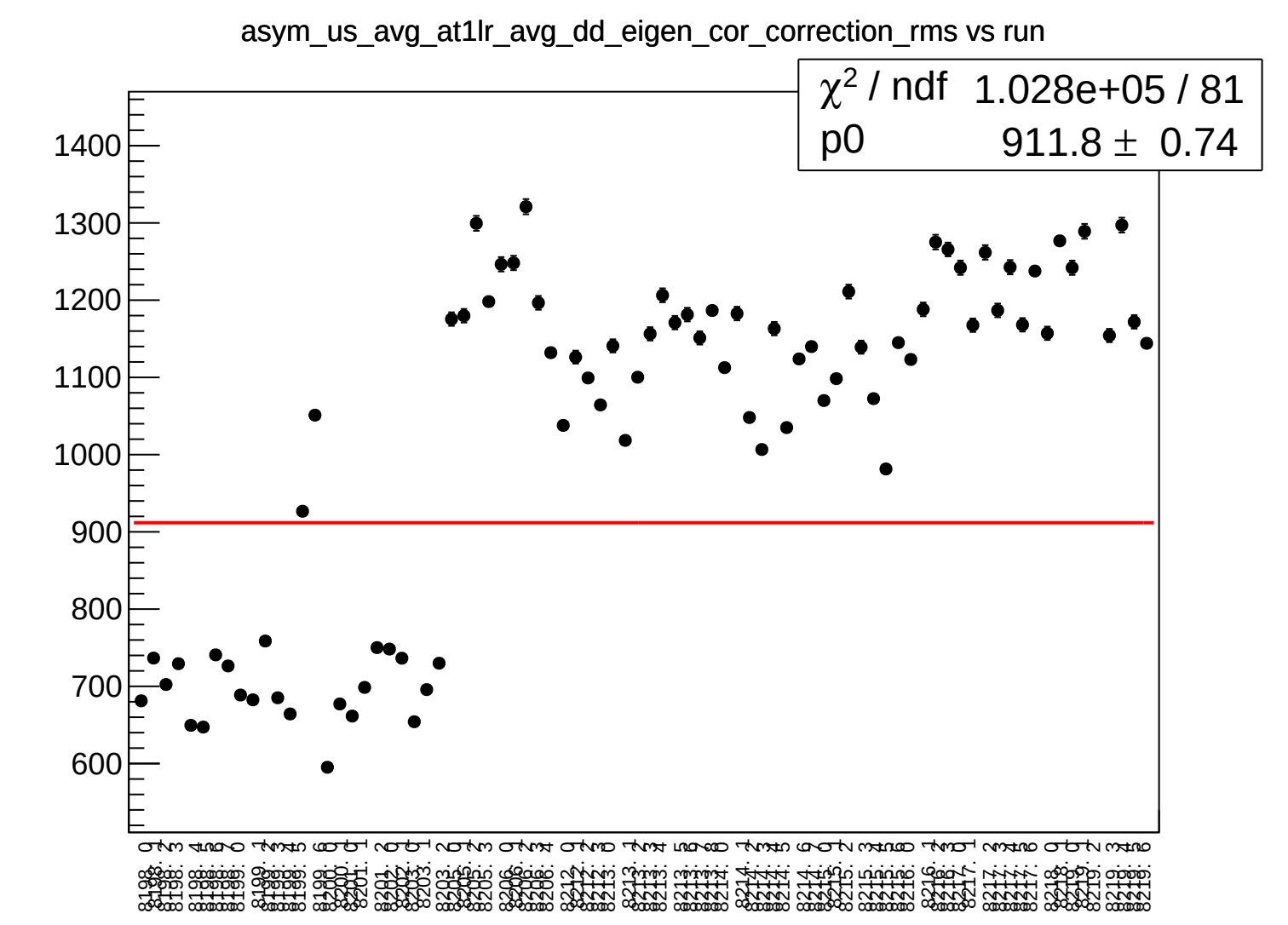

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.028e+05 / 81
p0 911.8 ± 0.74
1400
1300
1200
1100
1000
900
800
700
600

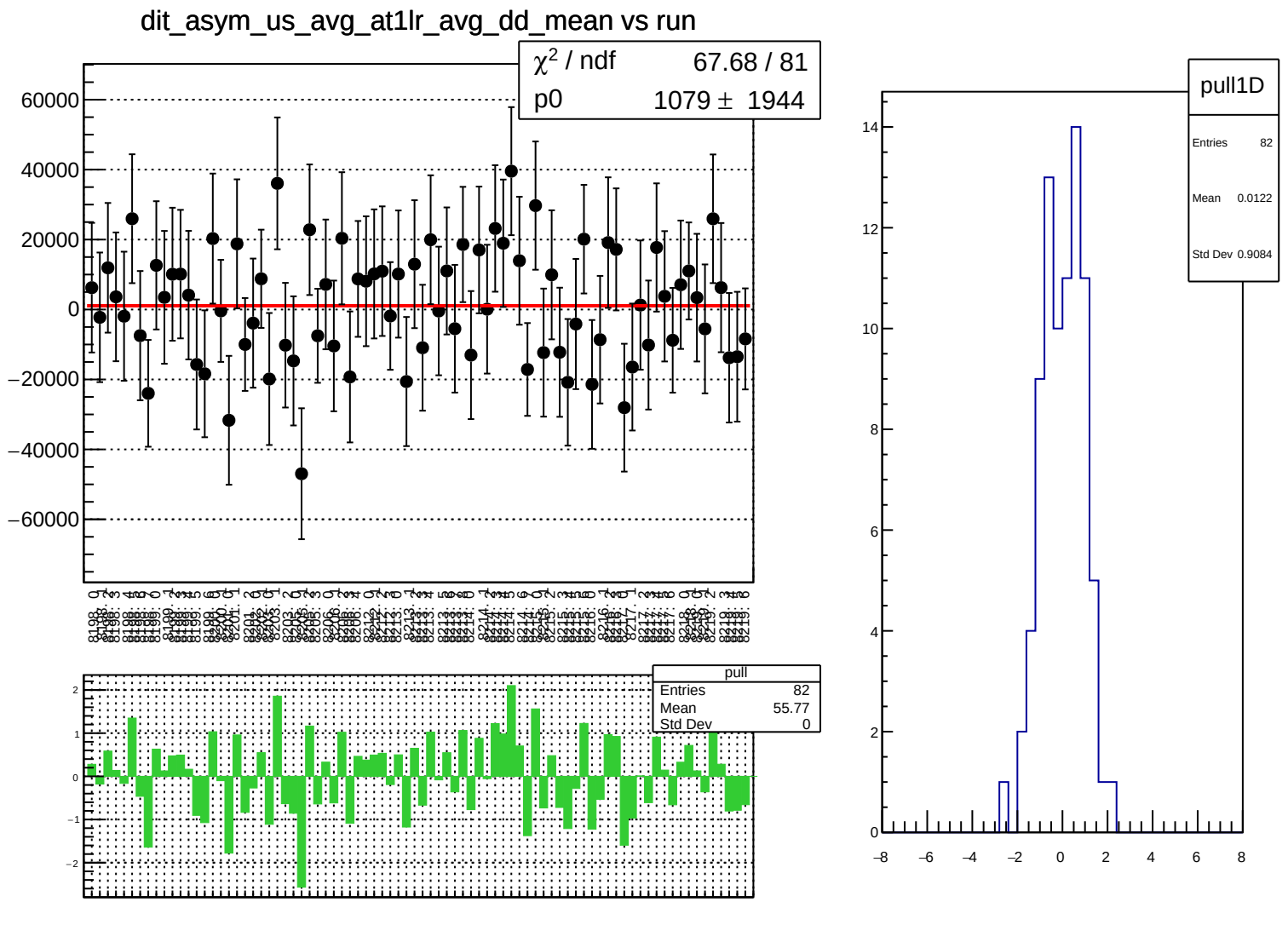

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 67.2 / 81
p0 918.5 ± 1932
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 51.5
Std Dev 0
2
1
0
−1
−2

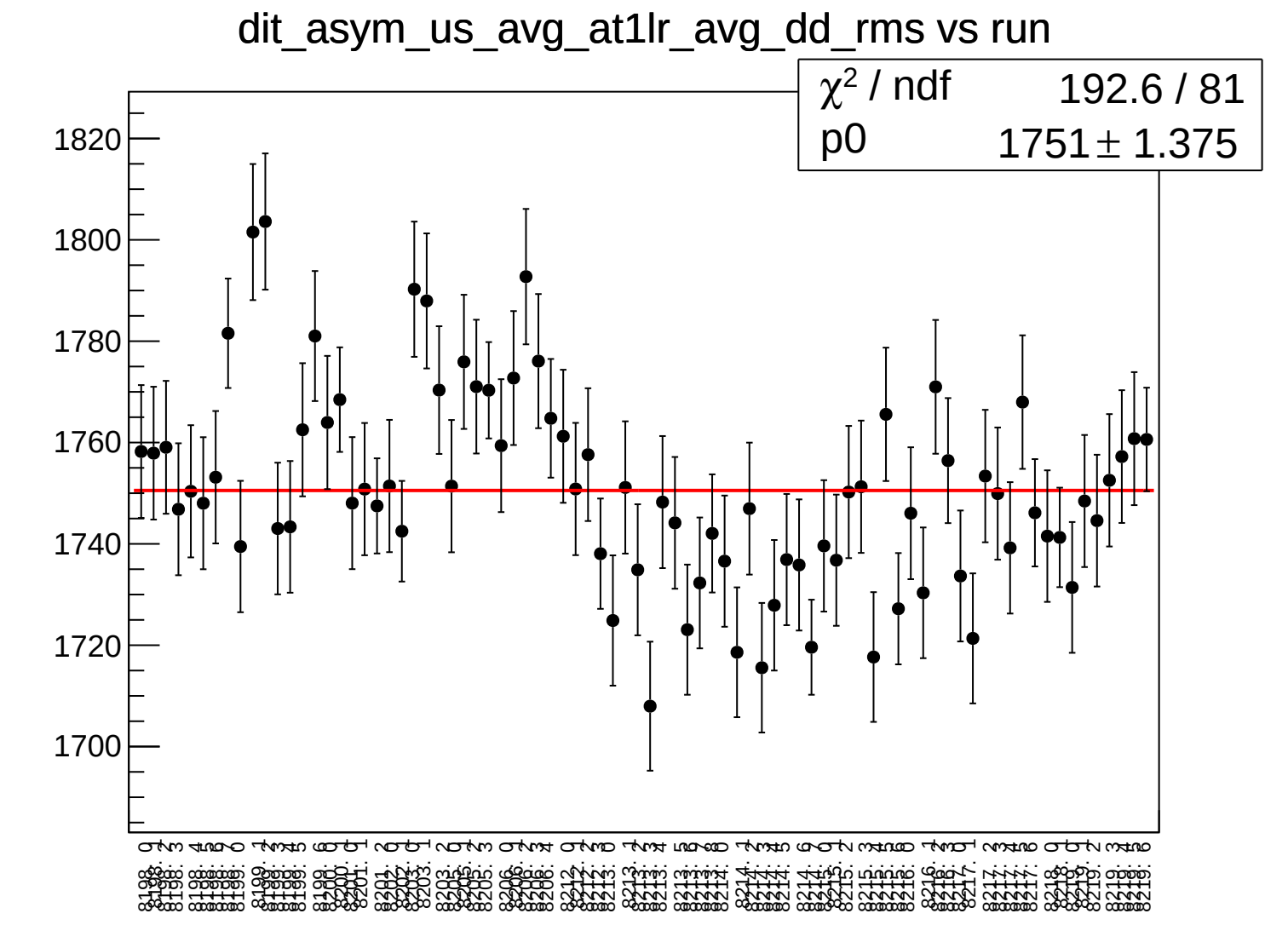

pull1D
Entries 82
Mean 0.01405
Std Dev 0.9051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

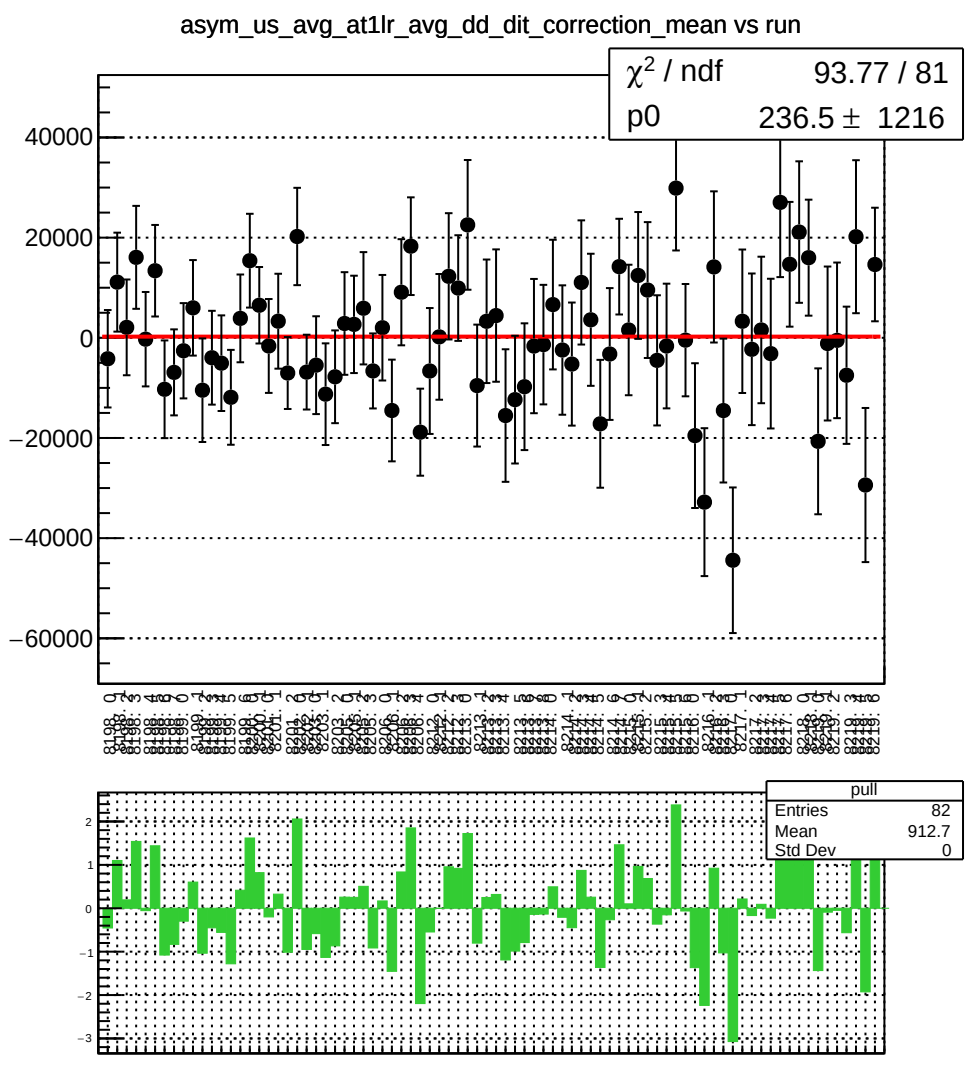

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 129 / 81
p0 1739 ± 1.366
1800
1780
1760
1740
1720
1700
1680

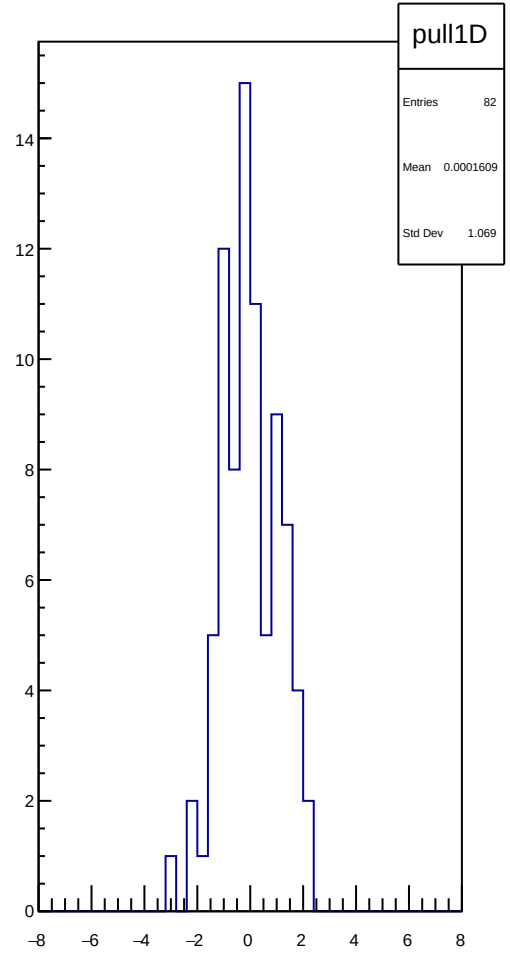

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.19 / 81
p0 268 ± 1046
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 30.83
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.01017
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

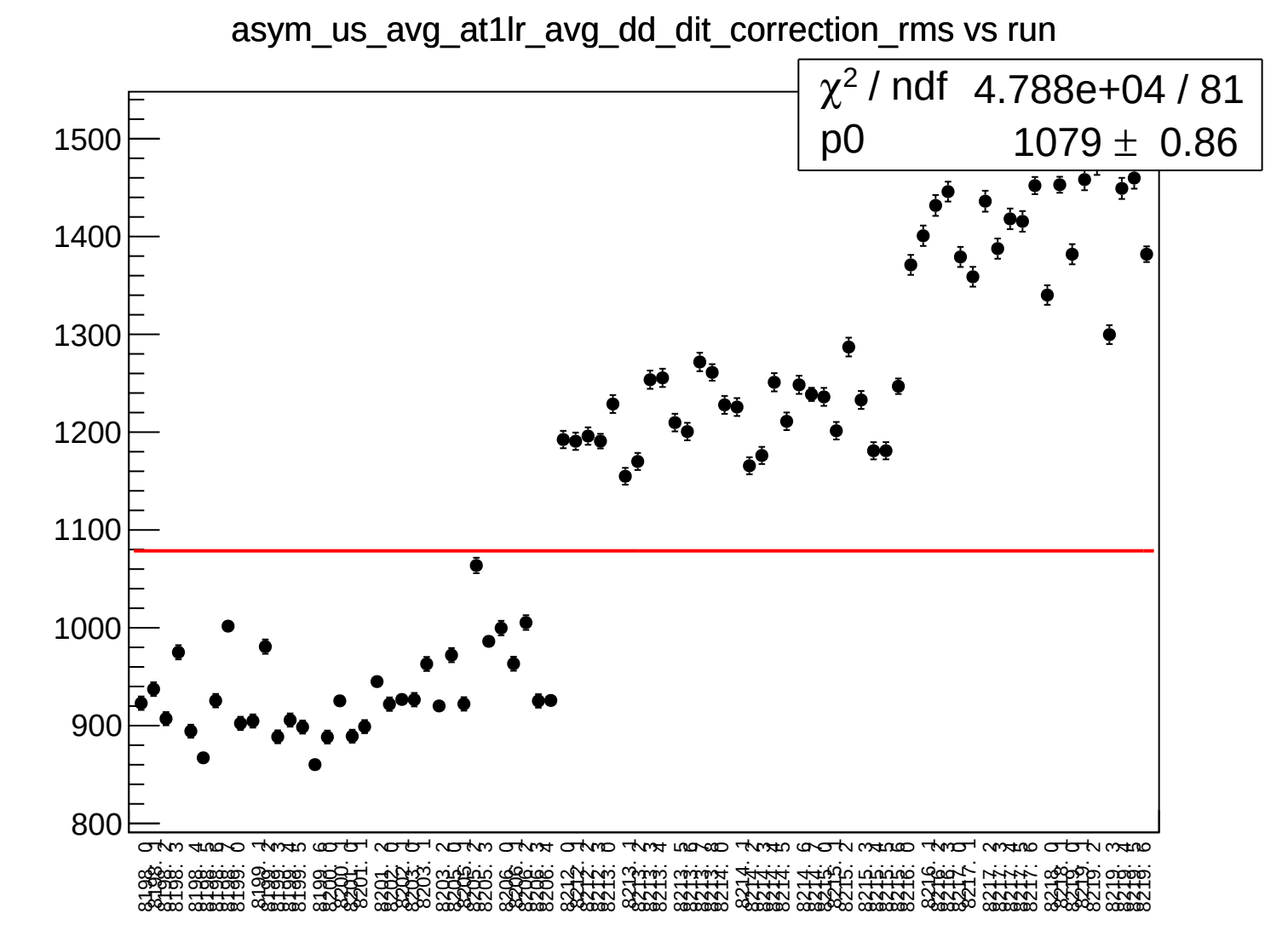

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.028e+05 / 81
p0 911.8 ± 0.74
1400
1300
1200
1100
1000
900
800
700
600

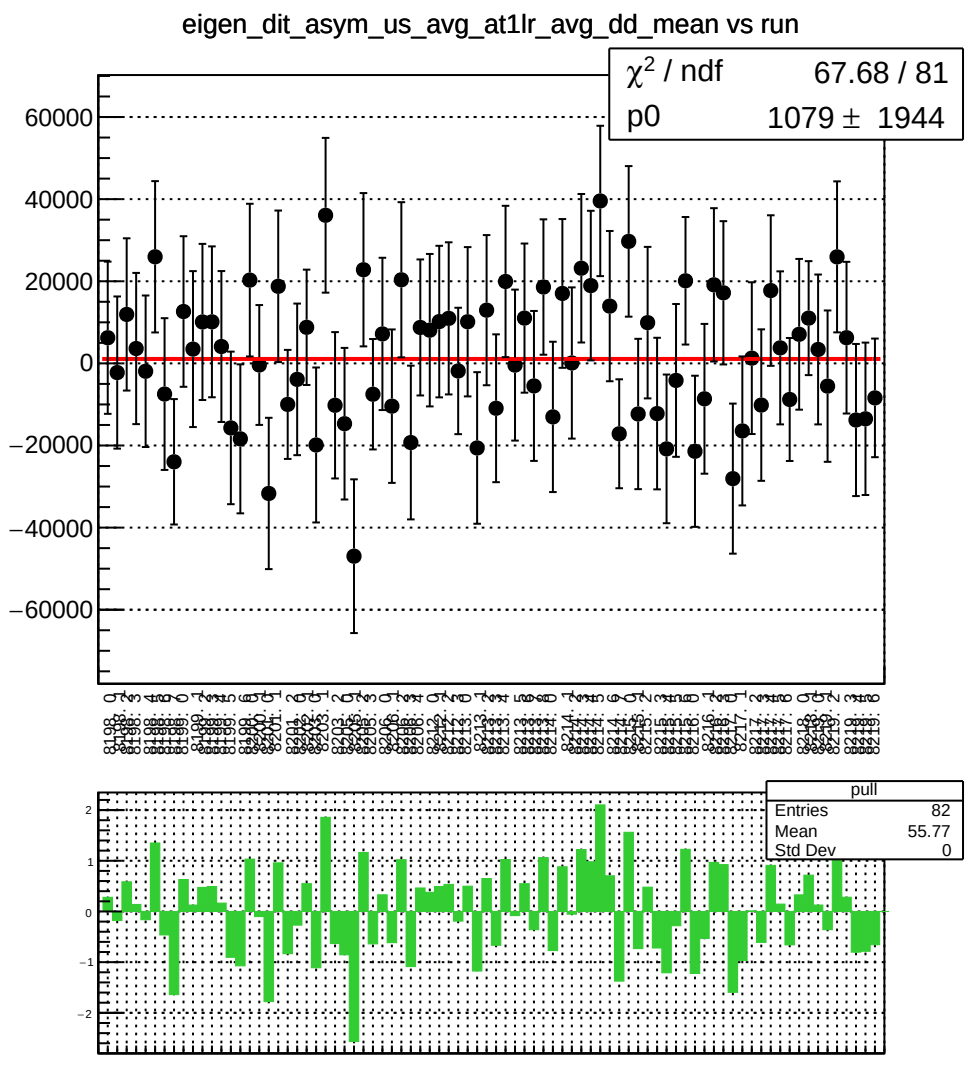

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 67.68 / 81
p0 1079 ± 1944
pull
Entries 82
Mean 55.77
Std Dev 0
pull1D
Entries 82
Mean 0.0122
Std Dev 0.9084

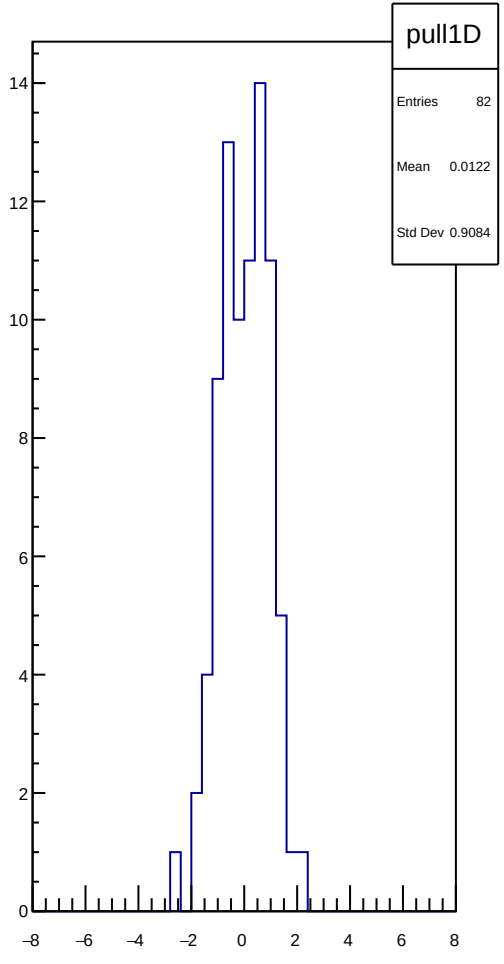

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 192.6 / 81
p0 1751 ± 1.375
1820
1800
1780
1760
1740
1720
1700

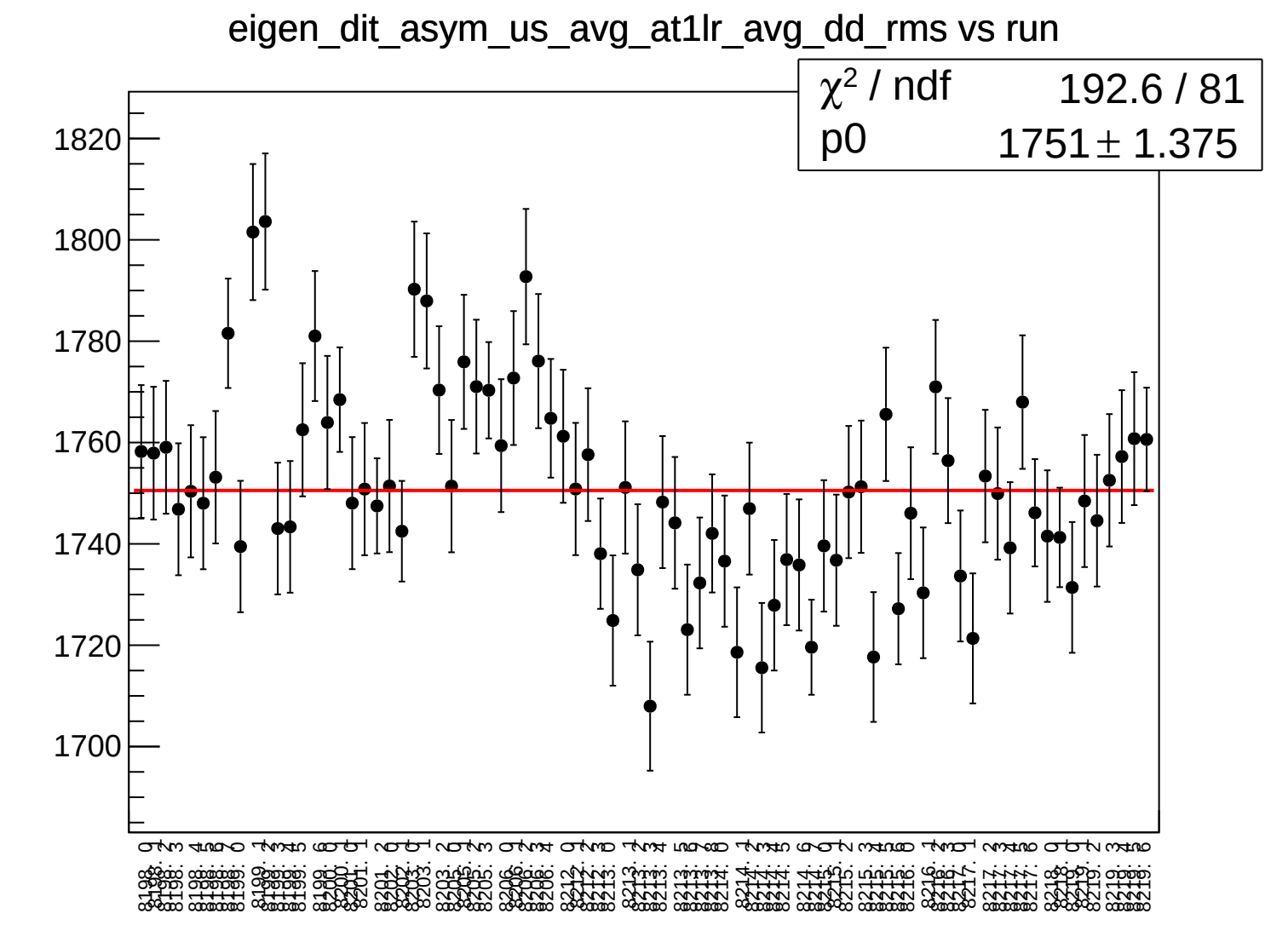

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 93.77 / 81
p0 236.5 ± 1216
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 912.7
Std Dev 0
2
1
0
−1
−2
−3

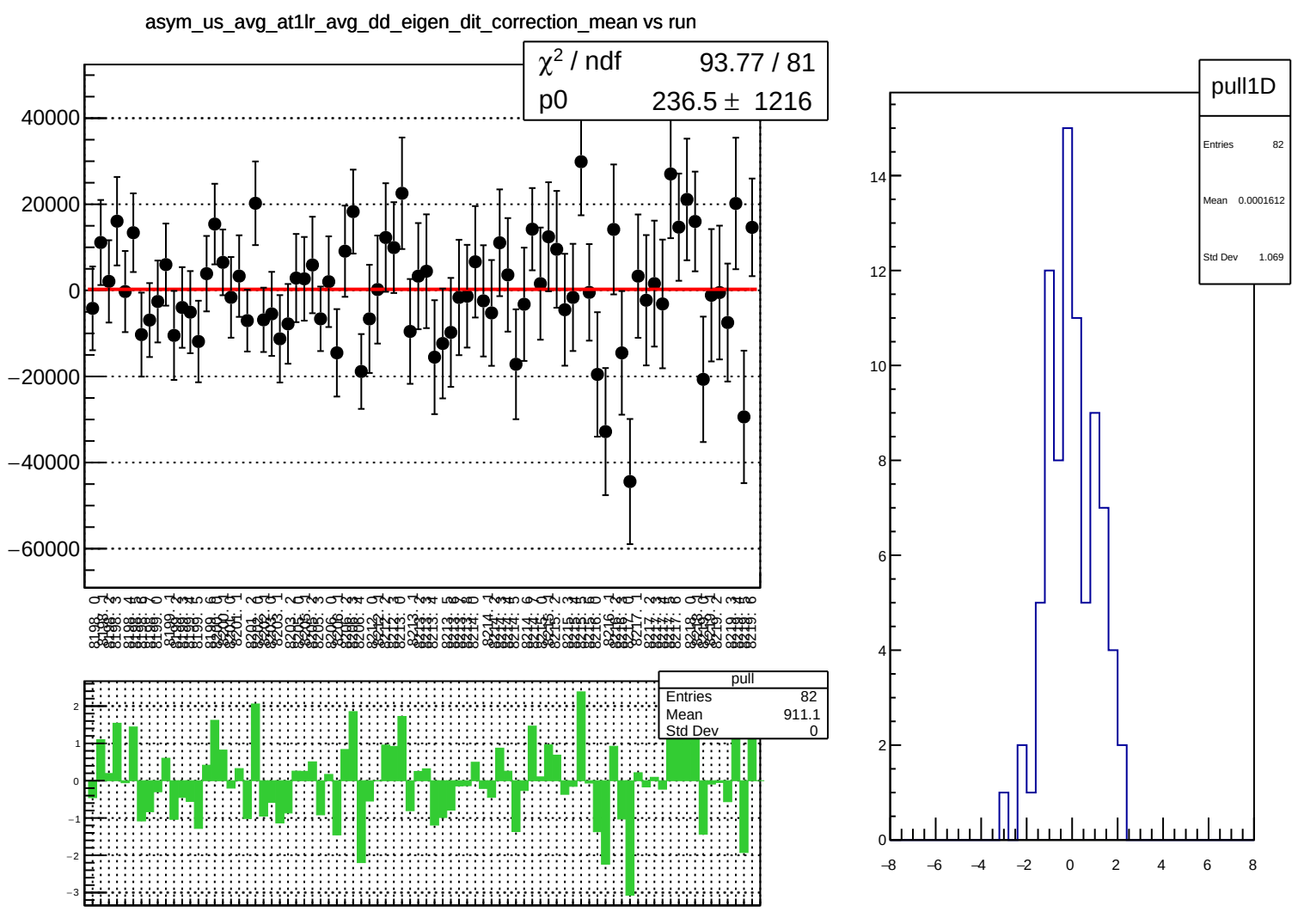

pull1D
Entries 82
Mean 0.0001609
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

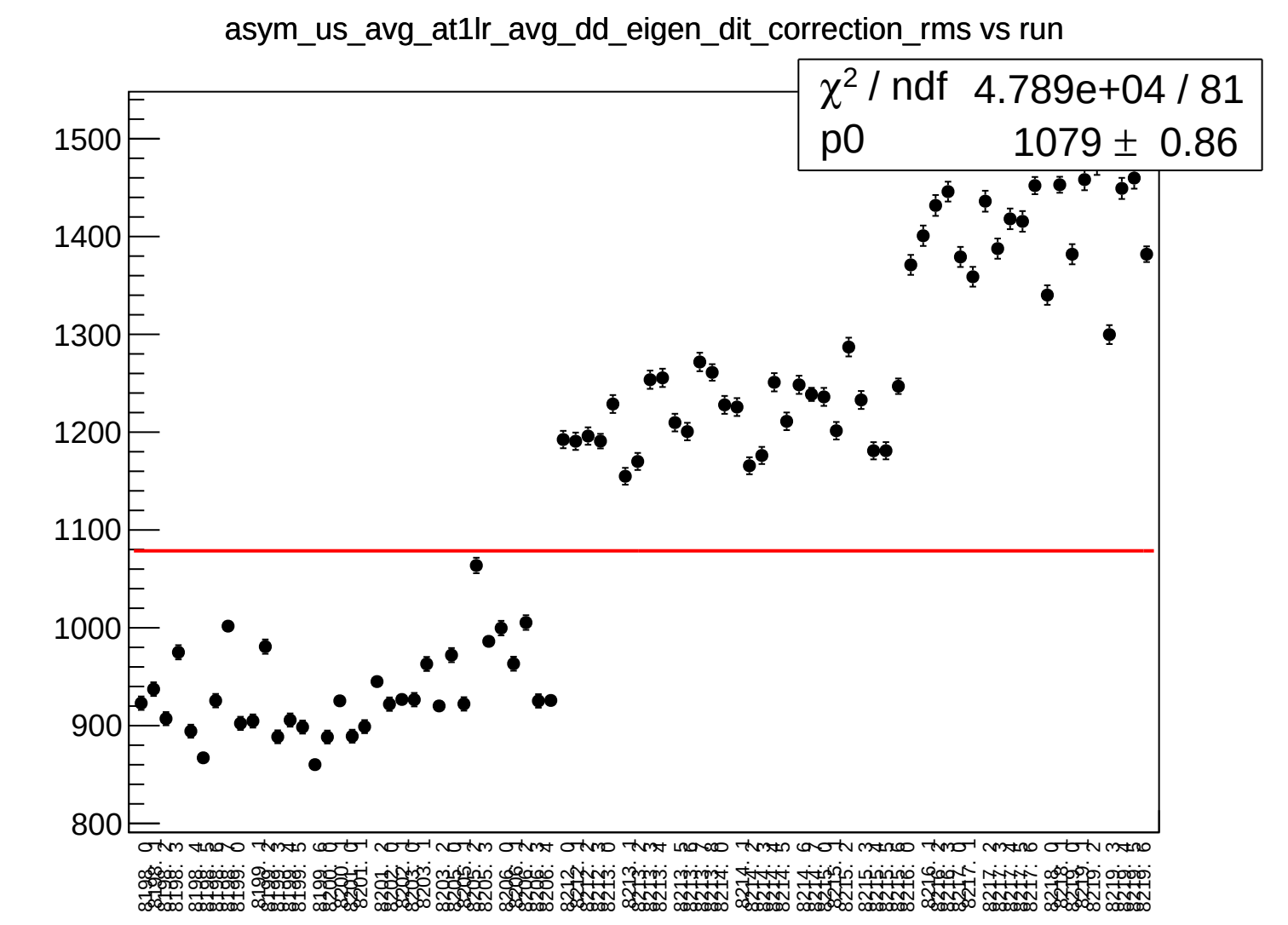

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 4.788e+04 / 81
p0 1079 ± 0.86
1500
1400
1300
1200
1100
1000
900
800

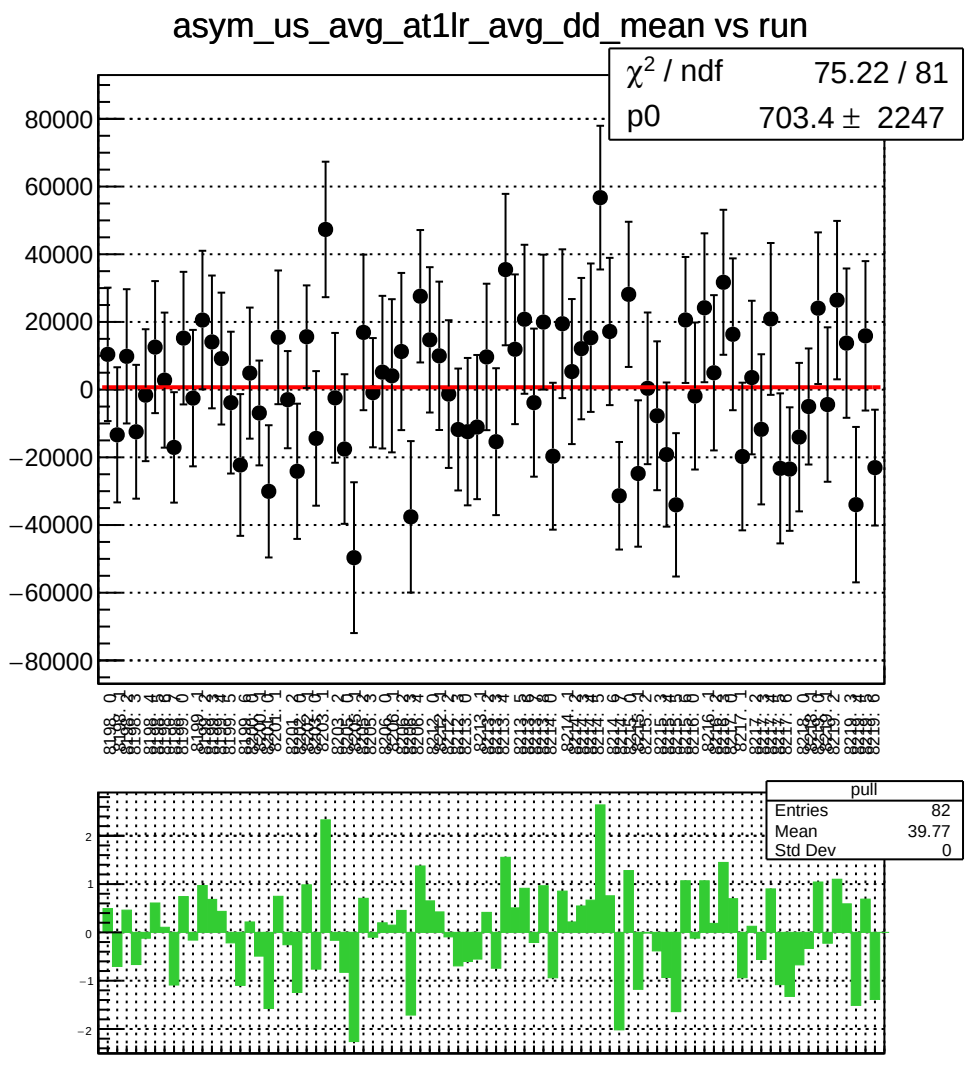

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 67.68 / 81
p0 1079 ± 1944
pull
Entries 82
Mean 55.77
Std Dev 0

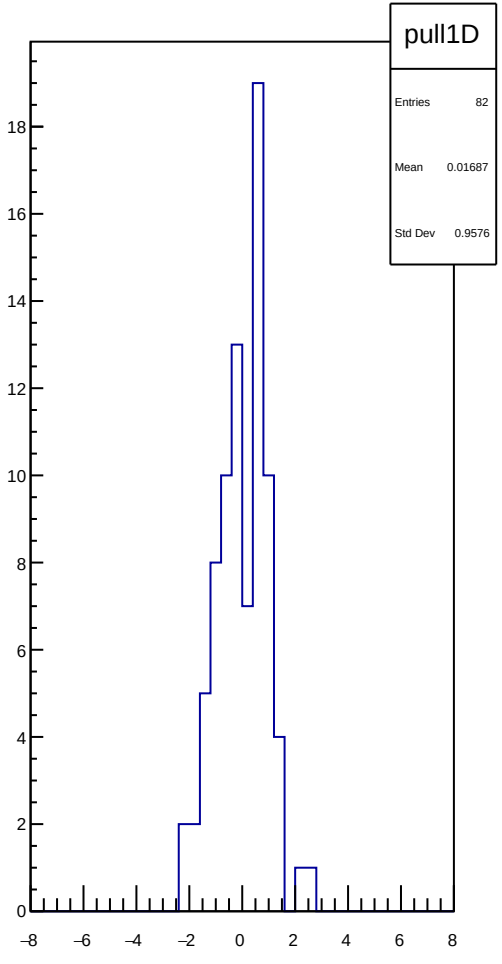

pull1D
Entries 82
Mean 0.0122
Std Dev 0.9084

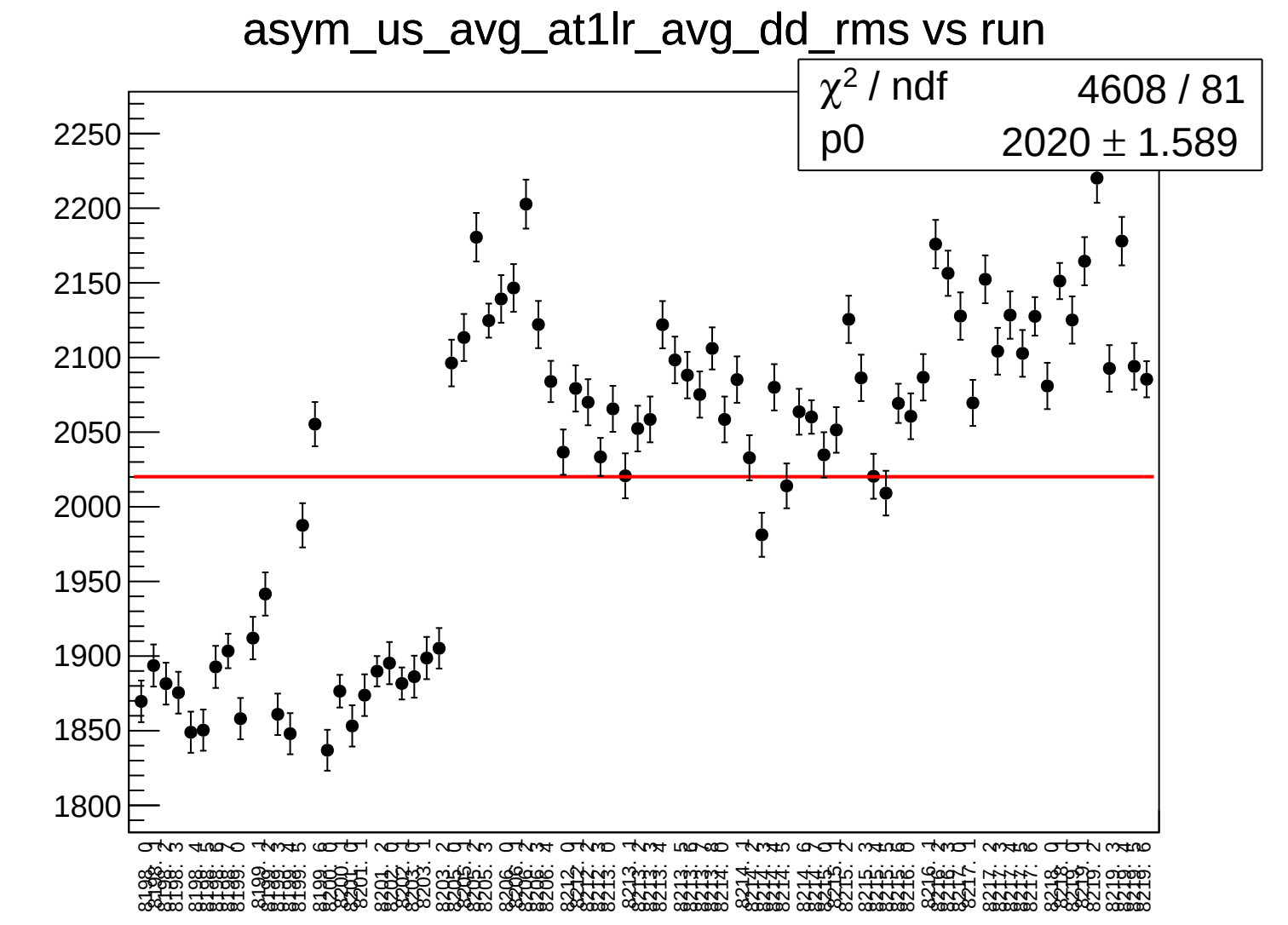

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 192.6 / 81
p0 1751 ± 1.375
1820
1800
1780
1760
1740
1720
1700

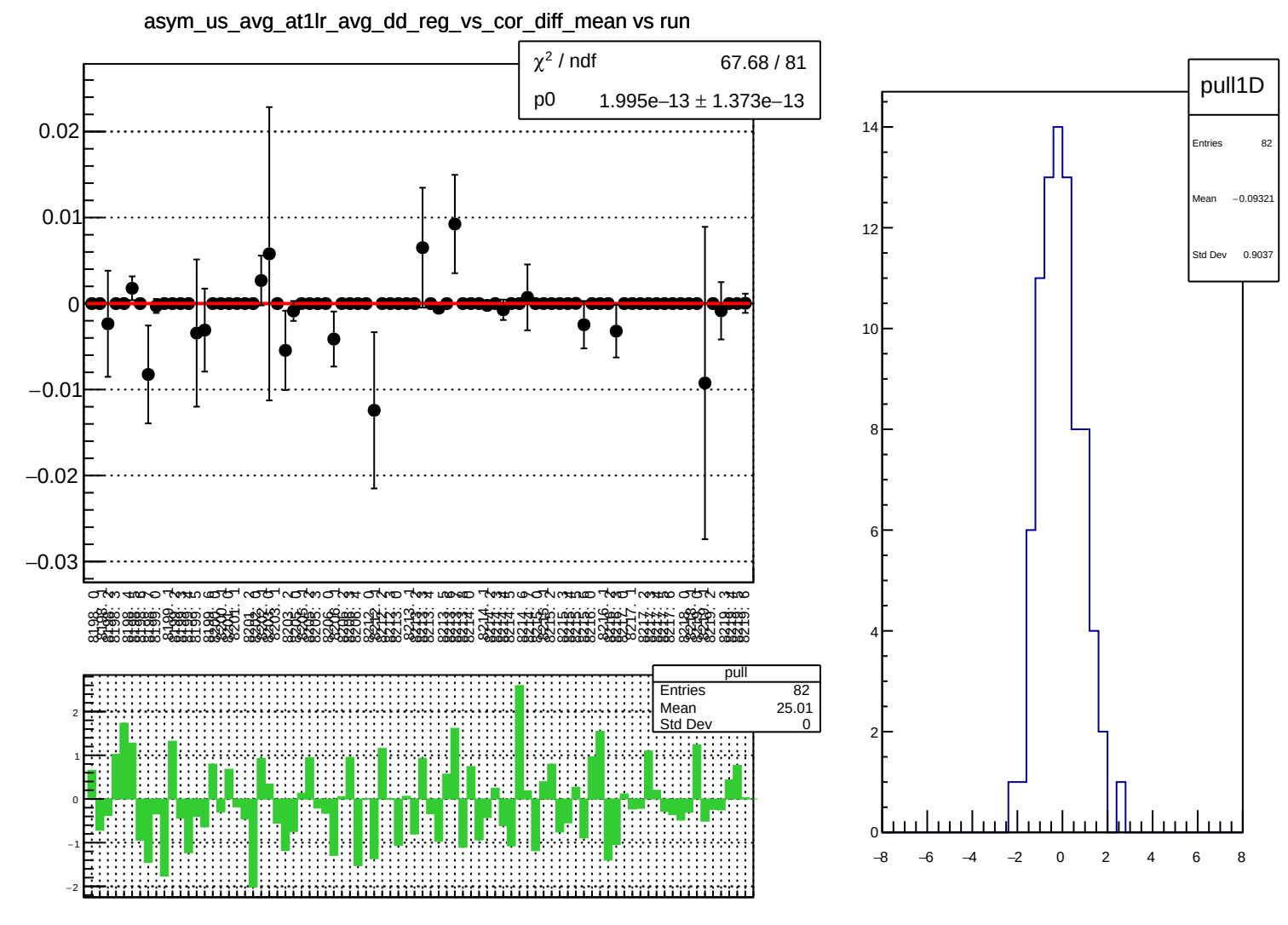

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.77 / 81
p0 236.5 ± 1216
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 911.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.0001612
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

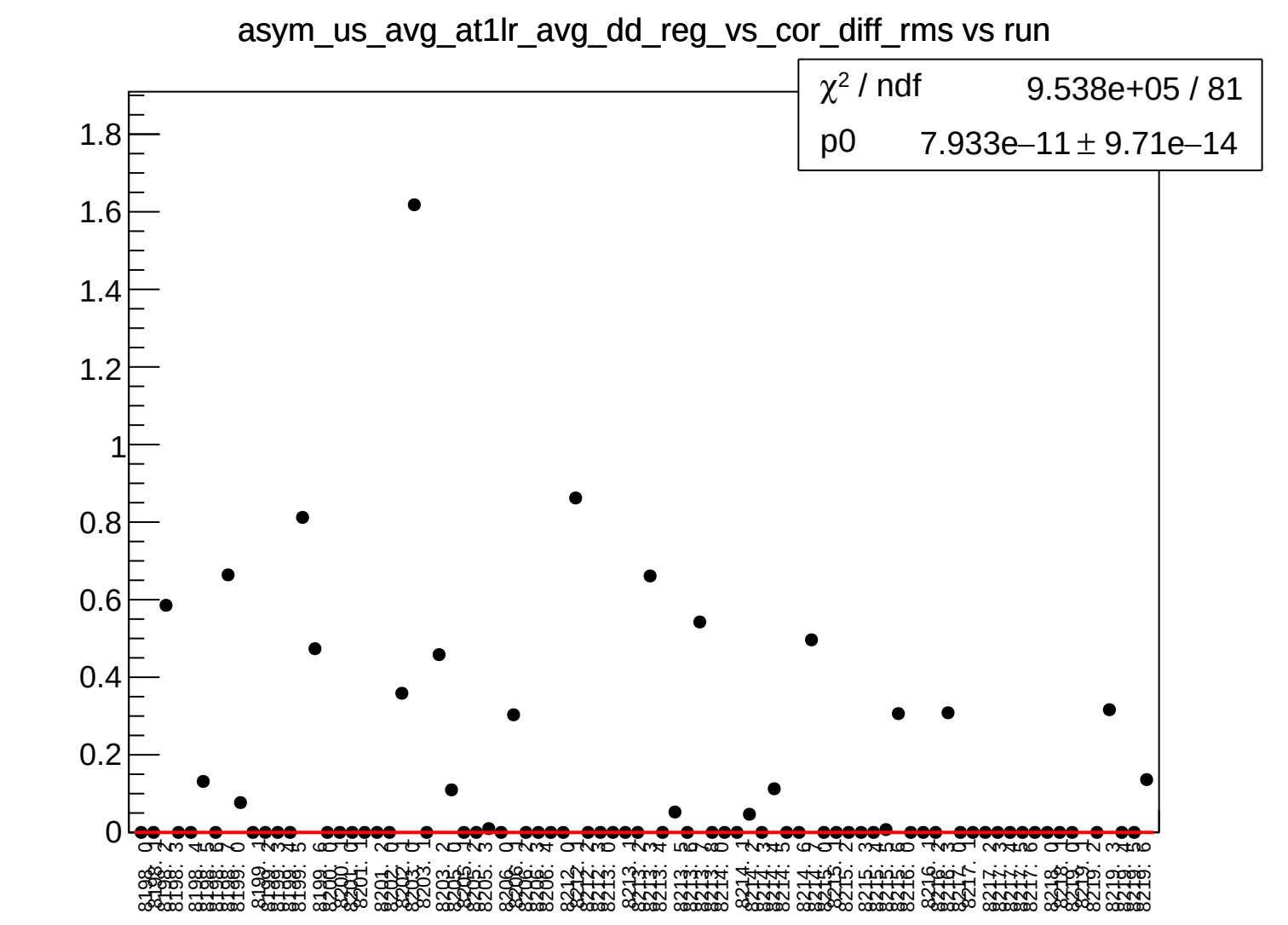

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.789e+04 / 81
p0 1079 ± 0.86
1500
1400
1300
1200
1100
1000
900
800

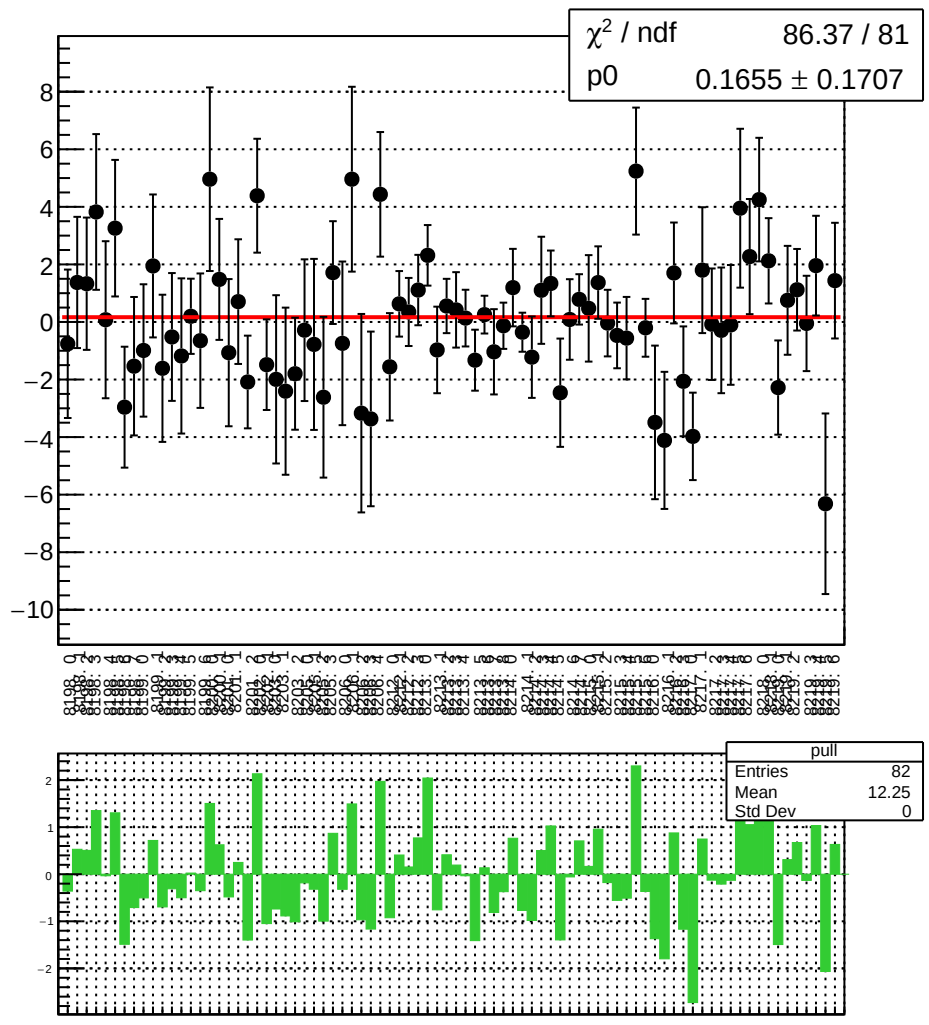

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 75.22 / 81
p0 703.4 ± 2247
pull
Entries 82
Mean 39.77
Std Dev 0

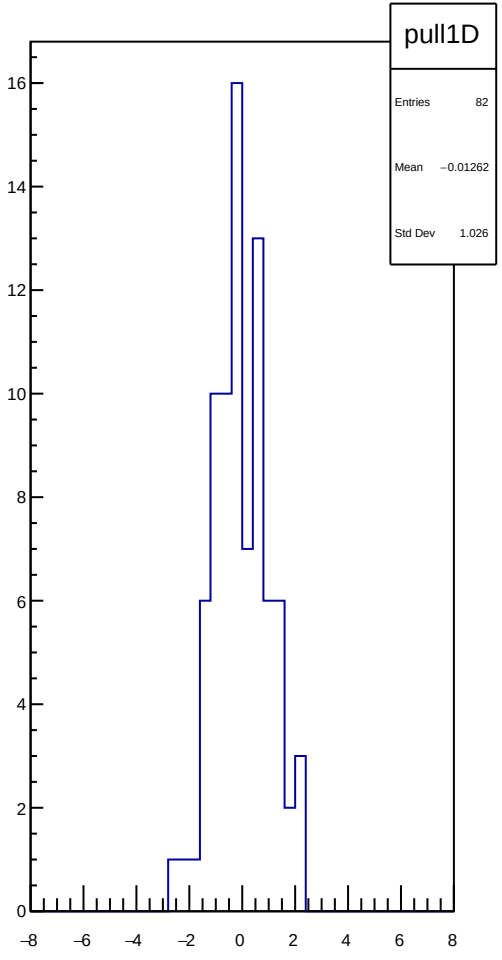

pull1D
Entries 82
Mean 0.01687
Std Dev 0.9576

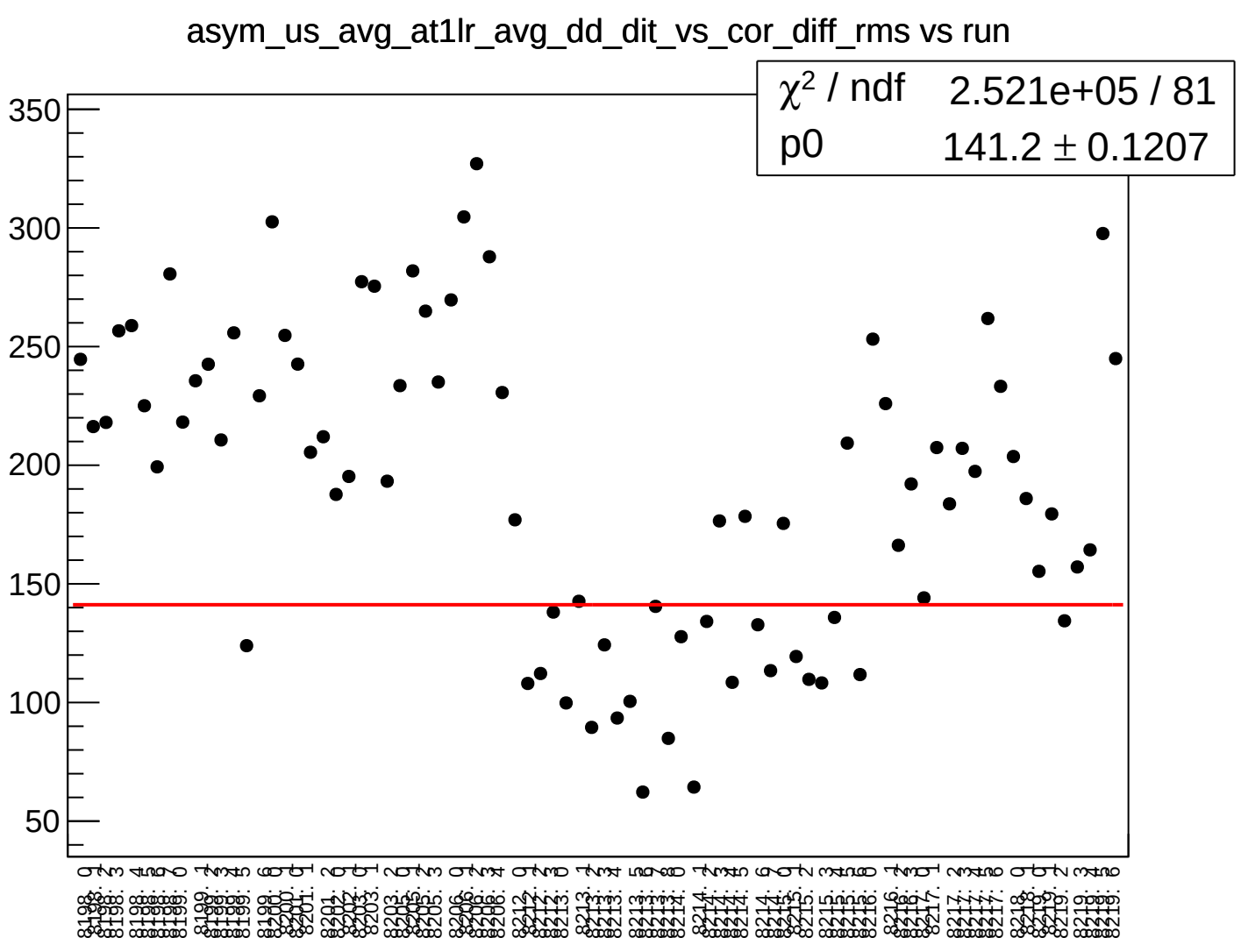

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 4608 / 81
p0 2020 ± 1.589
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

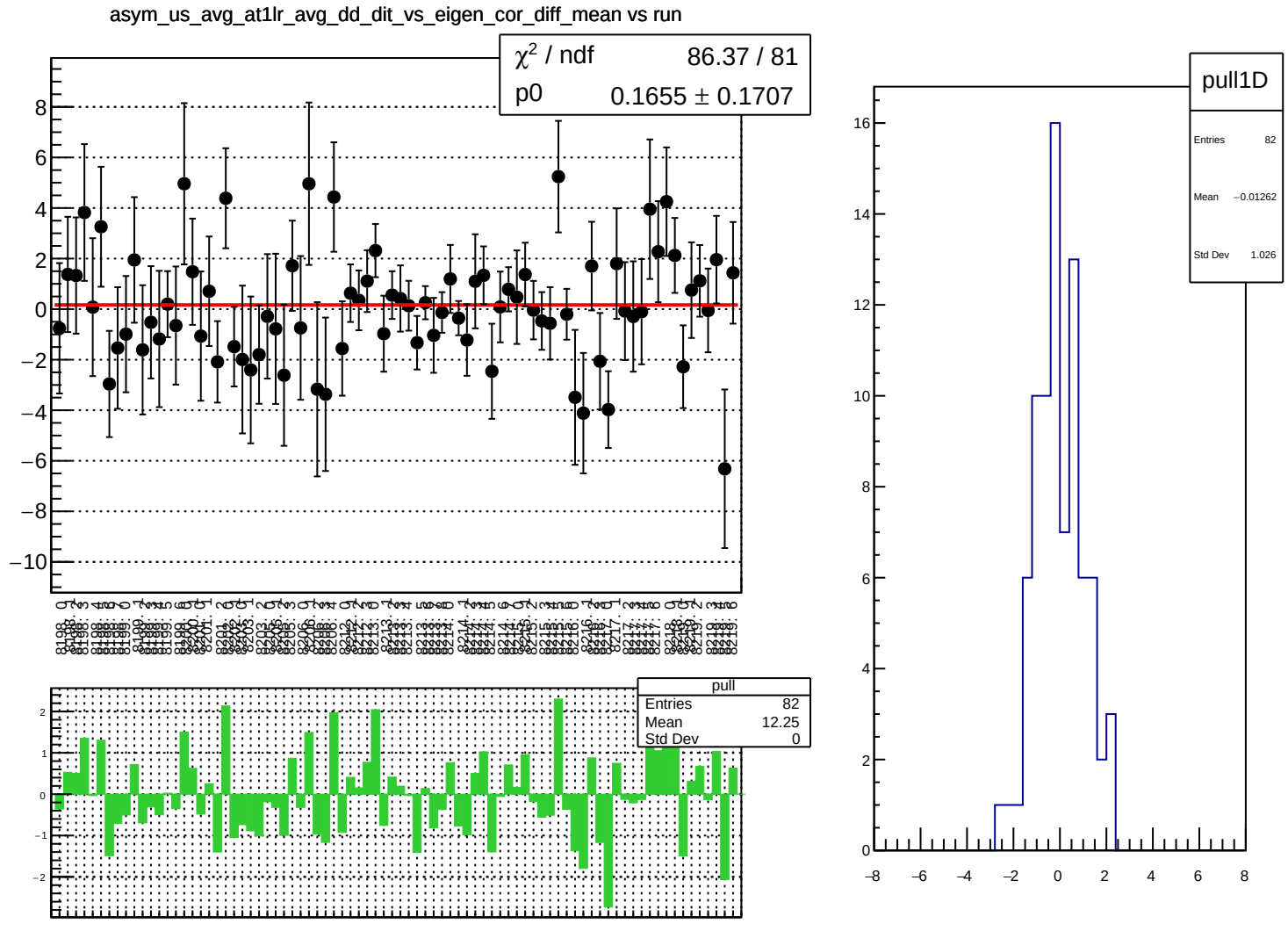

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 67.68 / 81
p0 1.995e−13 ± 1.373e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 82
Mean 25.01
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.09321
Std Dev 0.9037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

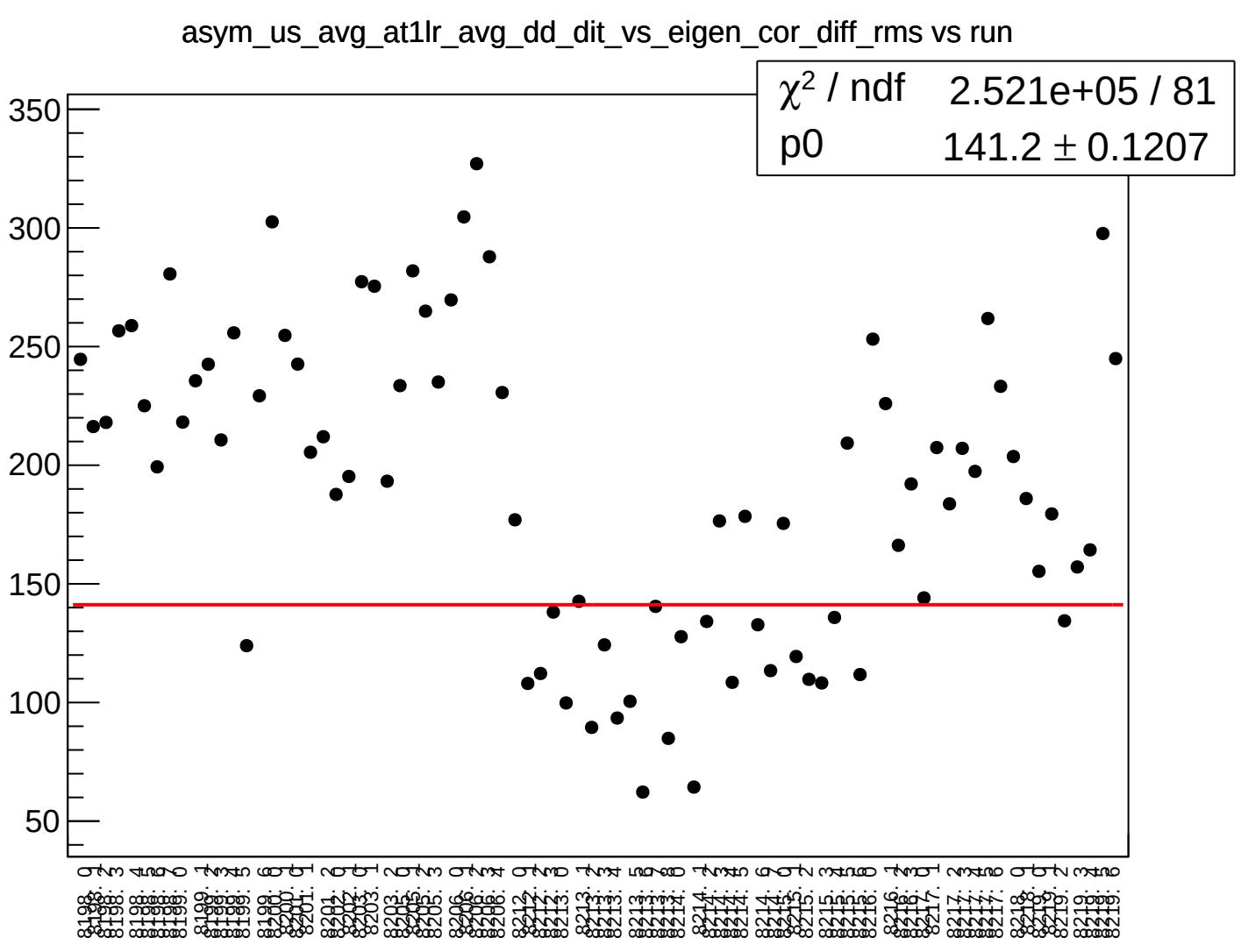

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.538e+05 / 81
p0 7.933e−11 ± 9.71e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

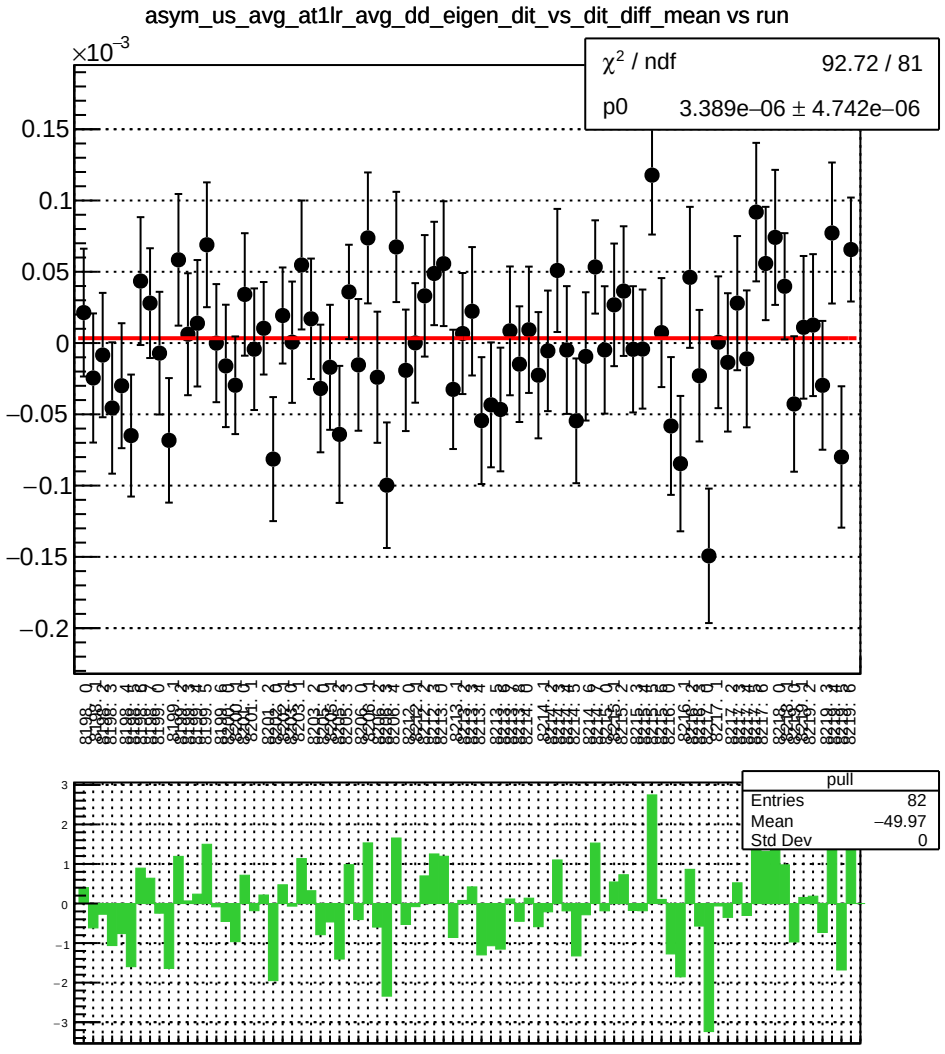

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.37 / 81
p0 0.1655 ± 0.1707
pull
Entries 82
Mean 12.25
Std Dev 0

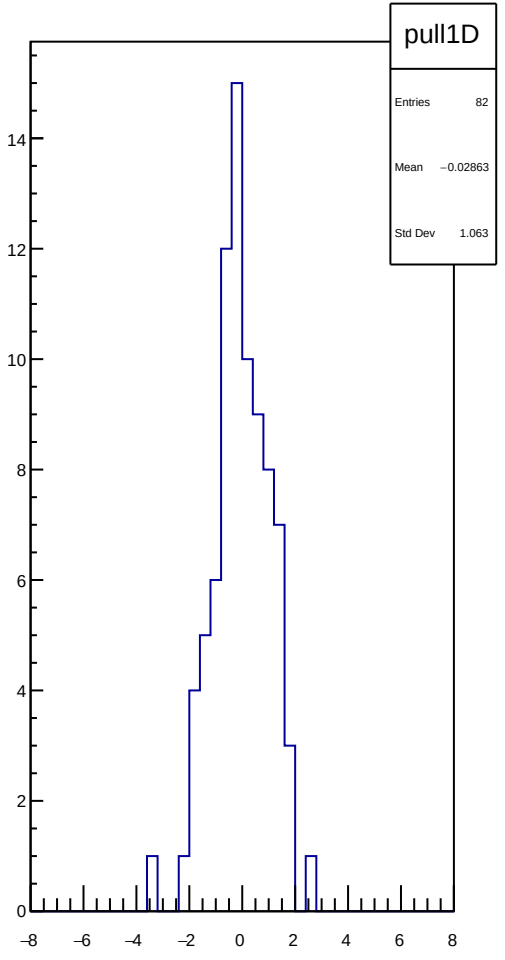

pull1D
Entries 82
Mean −0.01262
Std Dev 1.026

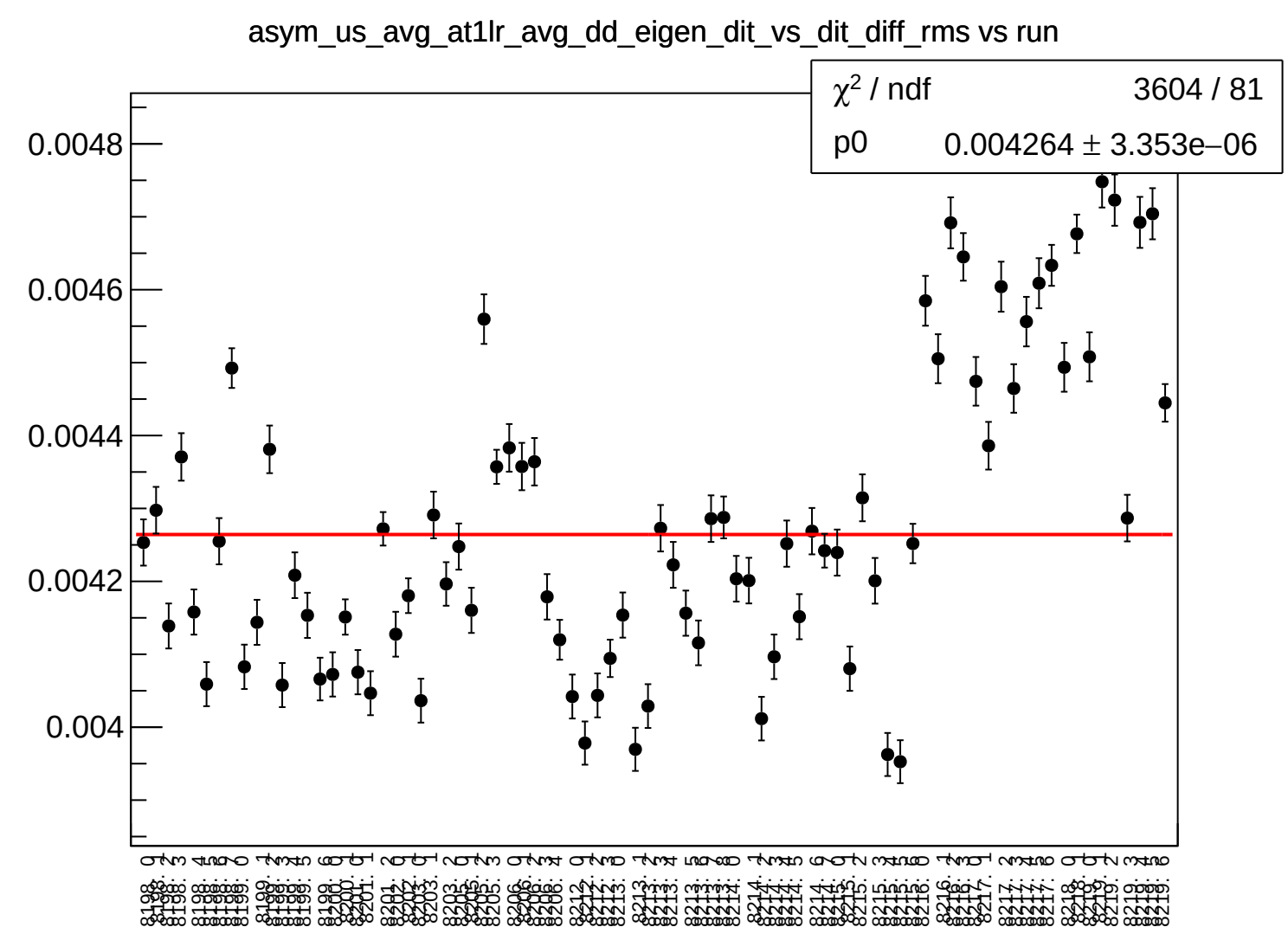

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.521e+05 / 81
p0 141.2 ± 0.1207
350
300
250
200
150
100
50

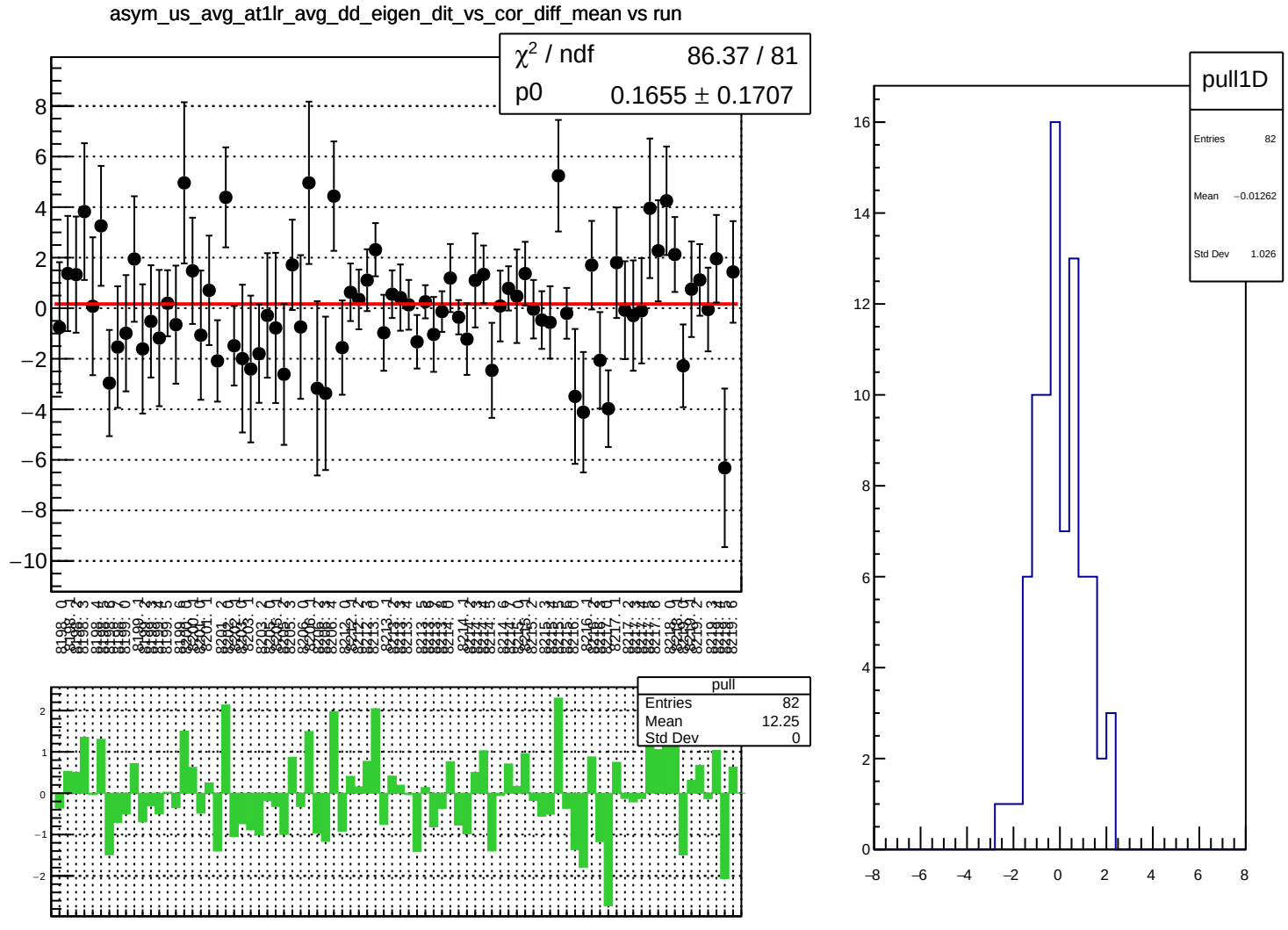

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.37 / 81
p0 0.1655 ± 0.1707
pull
Entries 82
Mean 12.25
Std Dev 0
pull1D
Entries 82
Mean −0.01262
Std Dev 1.026

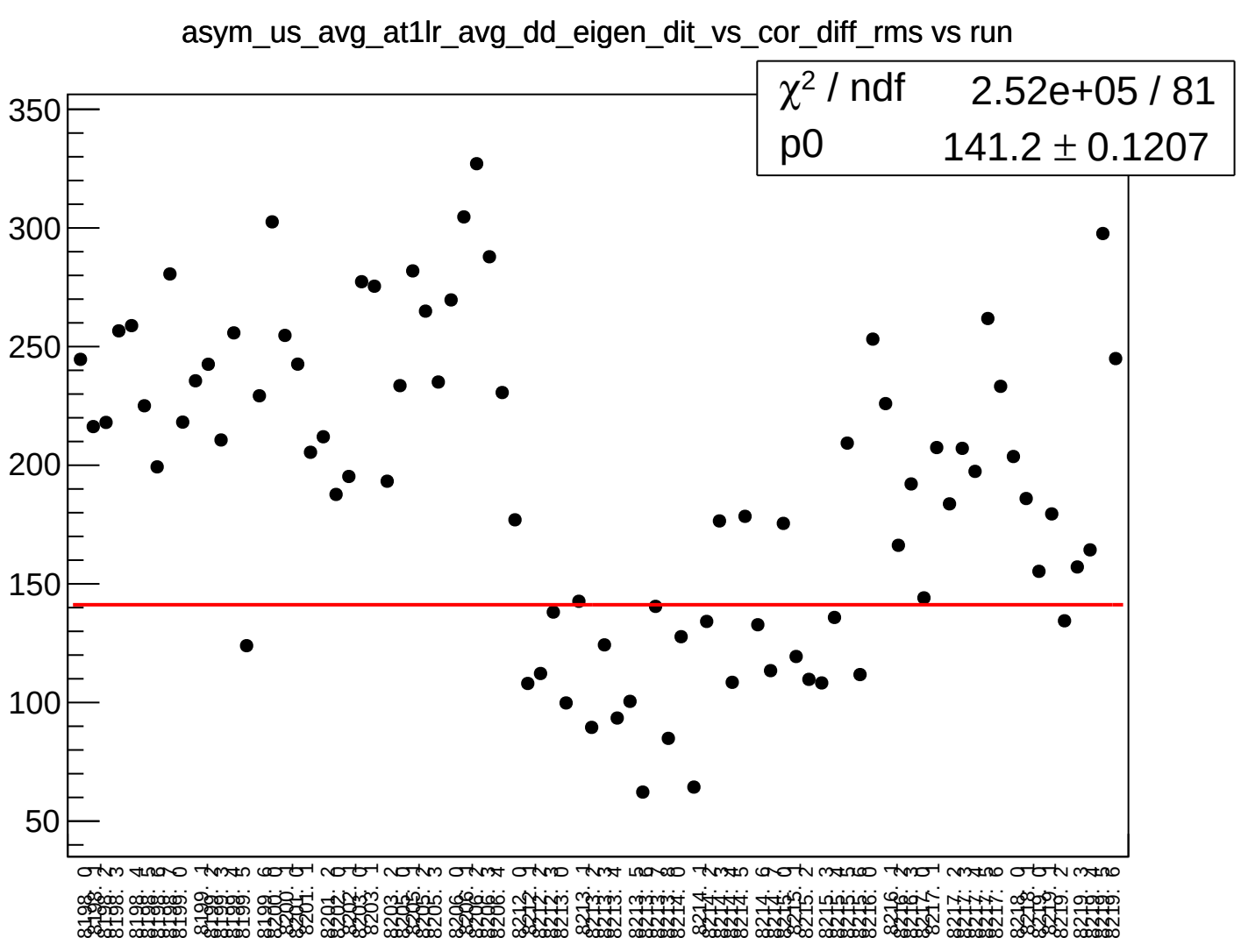

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.521e+05 / 81
p0 141.2 ± 0.1207
350
300
250
200
150
100
50

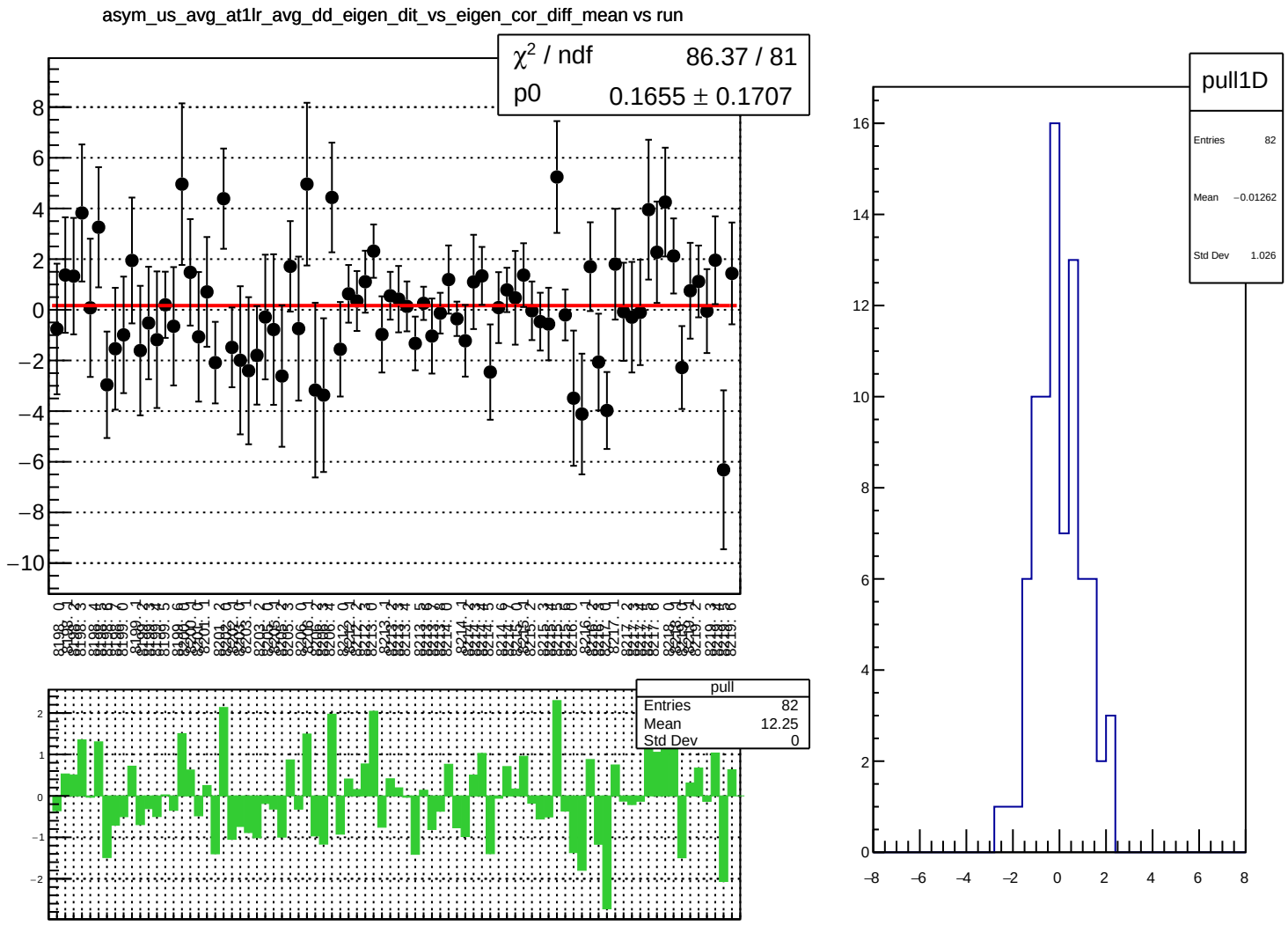

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.72 / 81
p0 3.389e−06 ± 4.742e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 82
Mean −49.97
Std Dev 0
3
2
1
0
−1
−2
−3

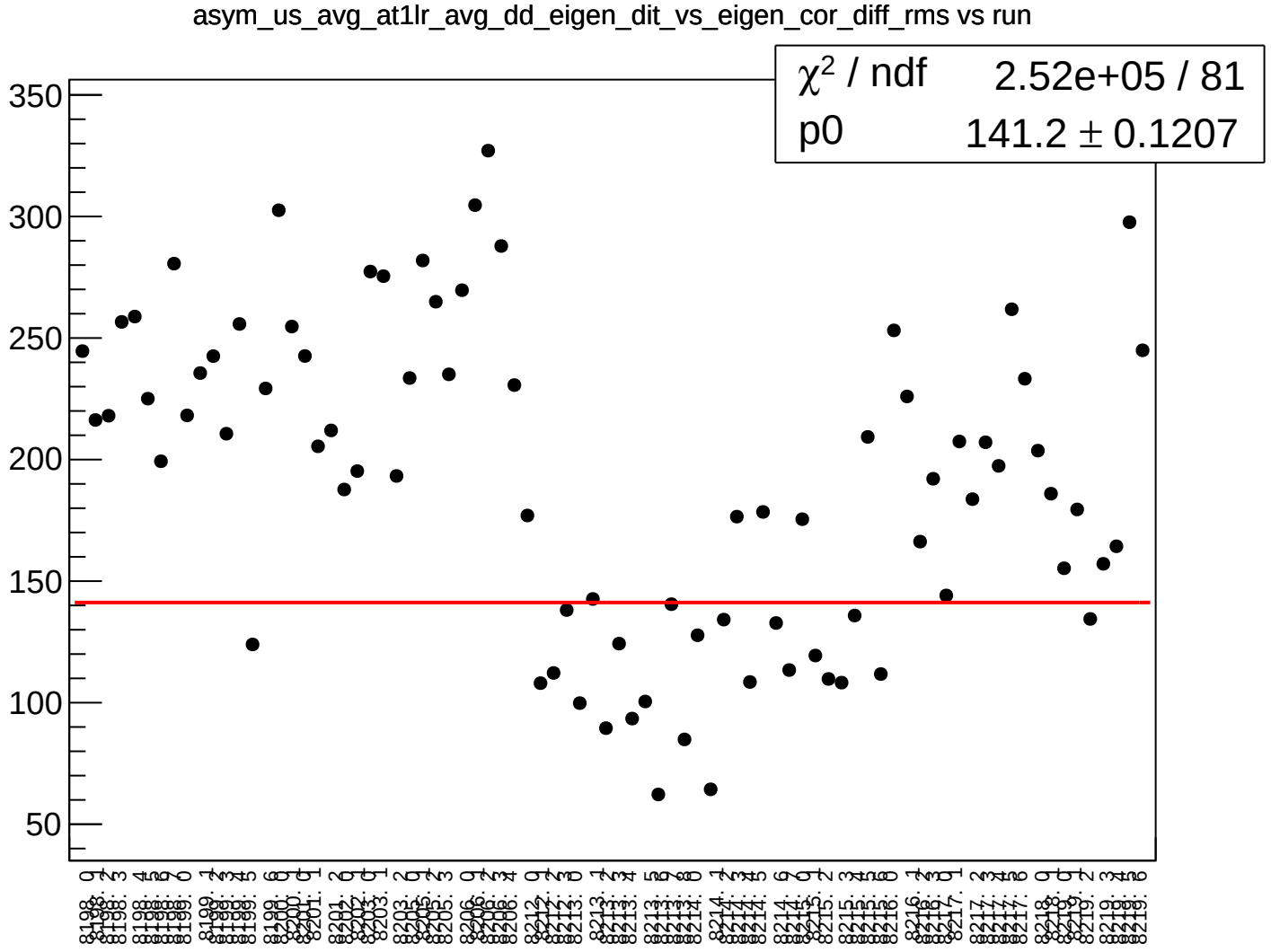

pull1D
Entries 82
Mean −0.02863
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

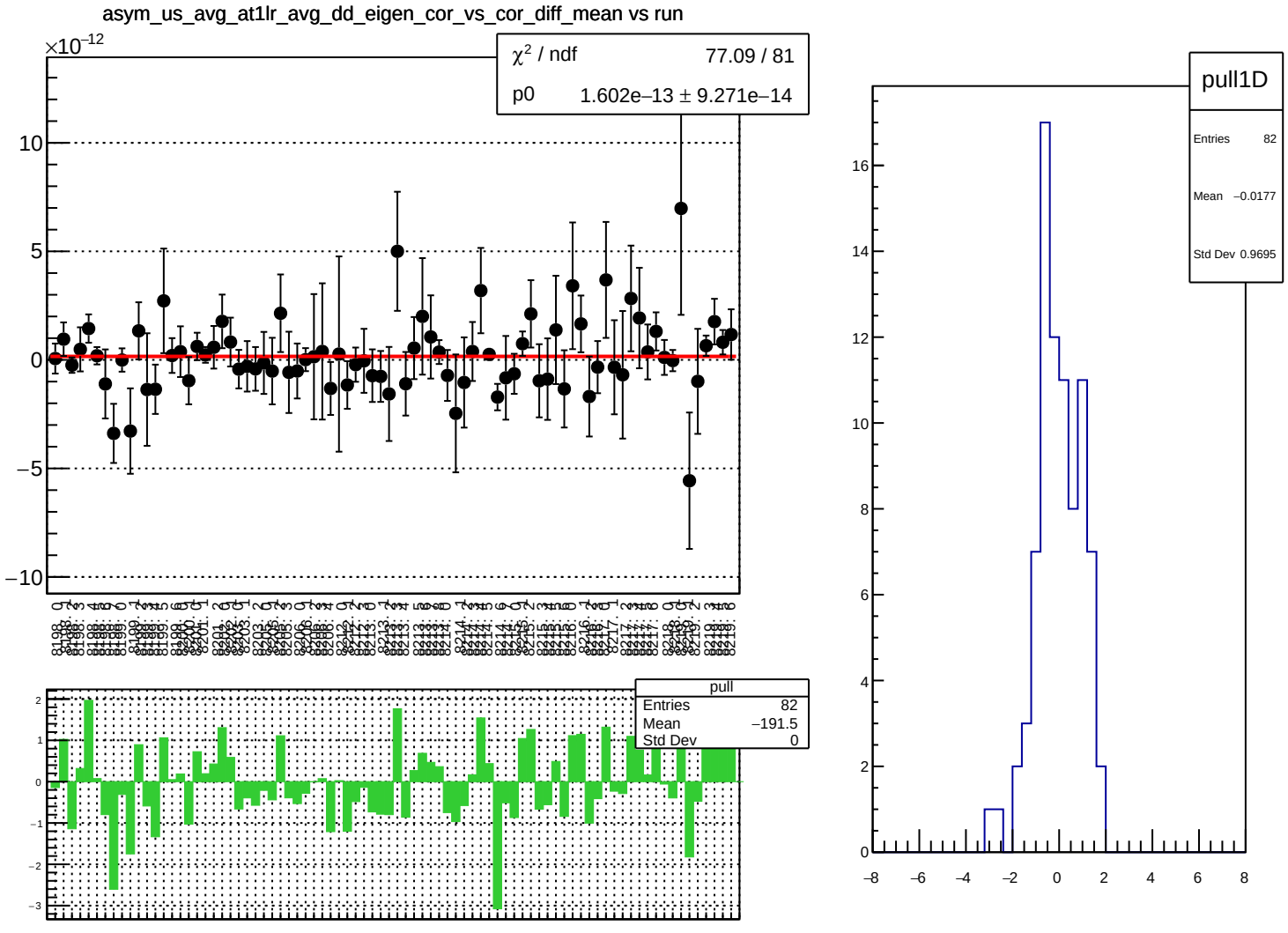

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3604 / 81
p0 0.004264 ± 3.353e−06
0.0048
0.0046
0.0044
0.0042
0.004

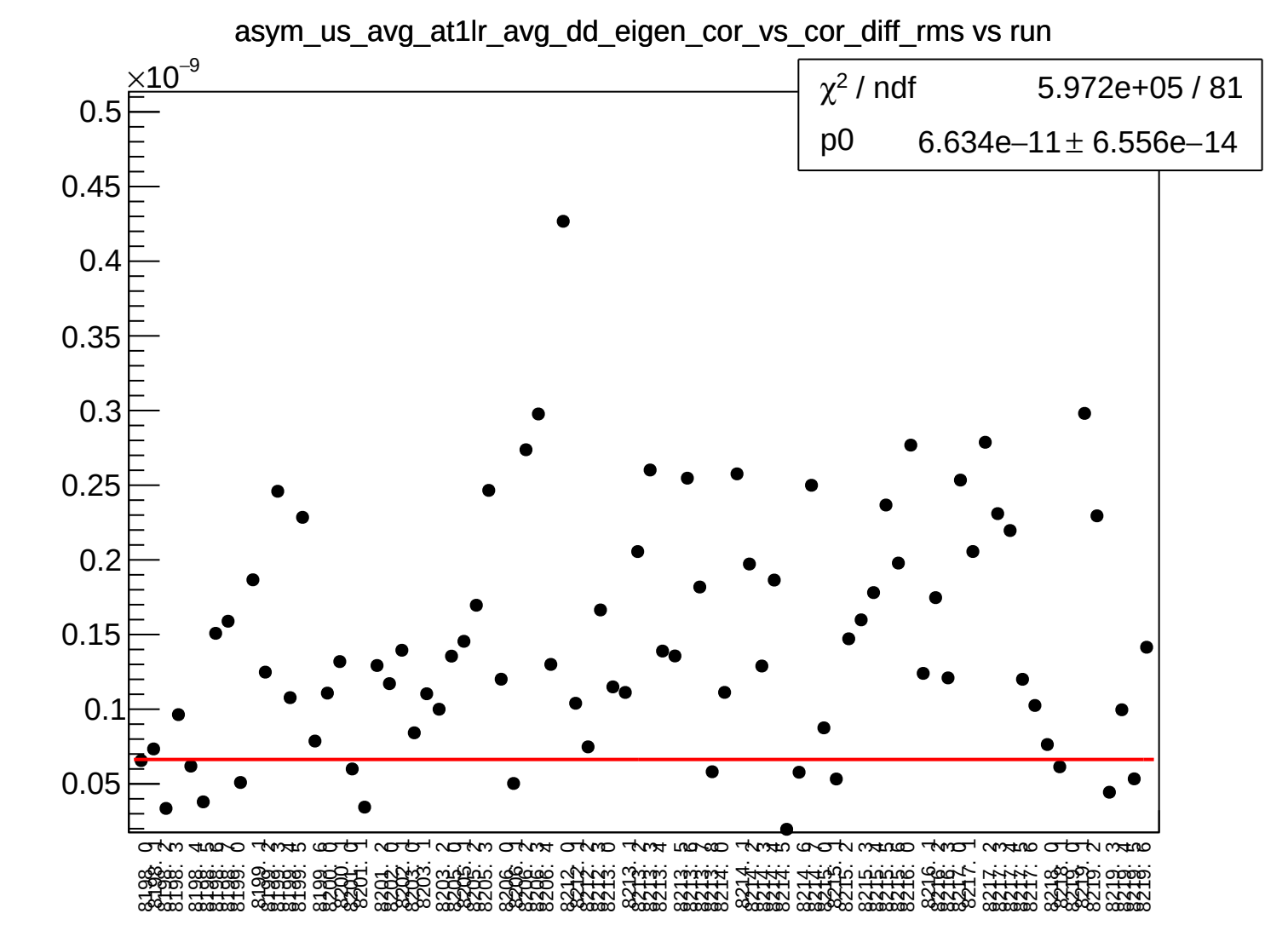

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.37 / 81
p0 0.1655 ± 0.1707
pull
Entries 82
Mean 12.25
Std Dev 0
pull1D
Entries 82
Mean −0.01262
Std Dev 1.026

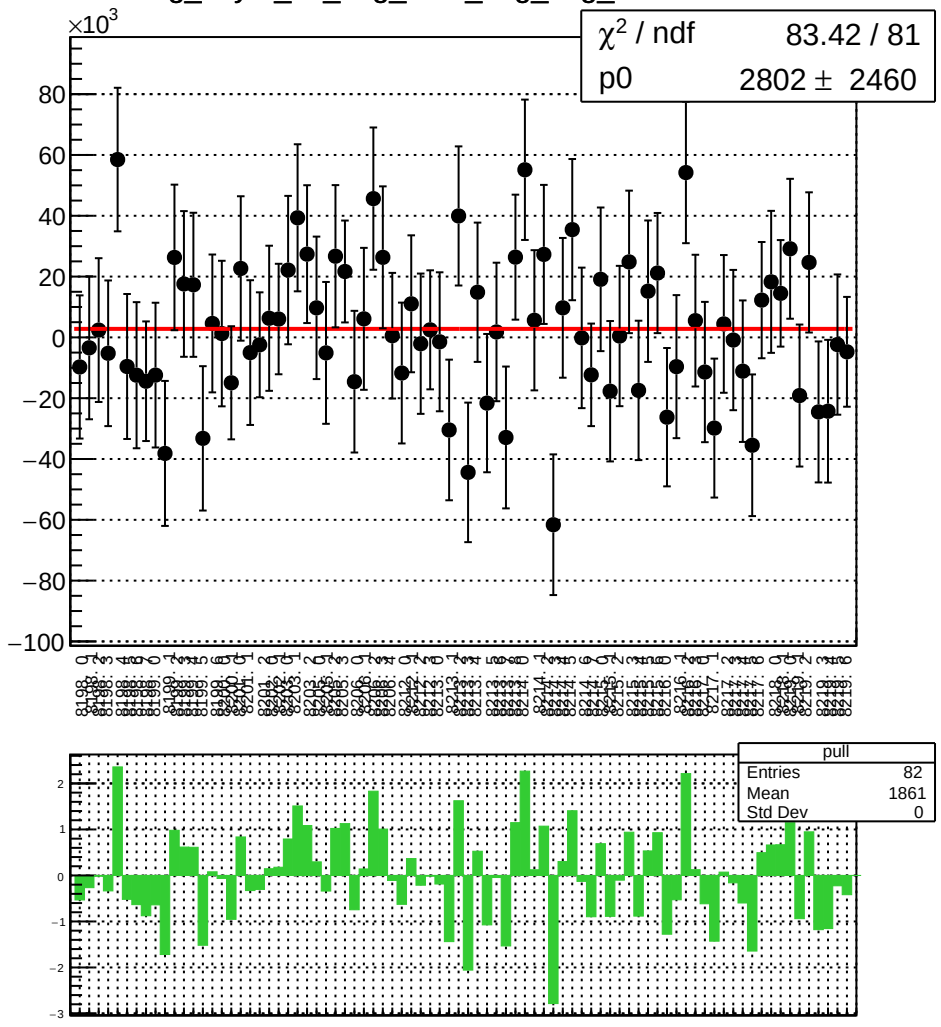

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.52e+05 / 81
p0 141.2 ± 0.1207
350
300
250
200
150
100
50

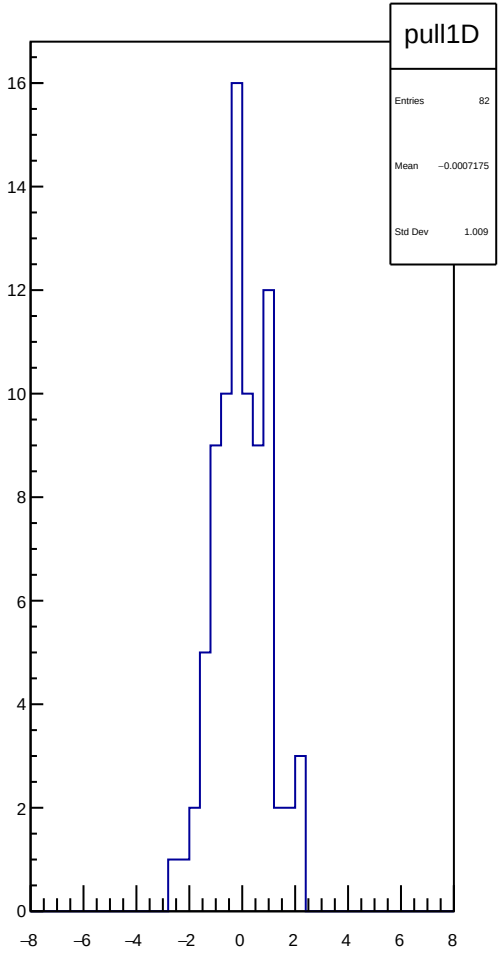

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.37 / 81
p0 0.1655 ± 0.1707
pull
Entries 82
Mean 12.25
Std Dev 0
pull1D
Entries 82
Mean −0.01262
Std Dev 1.026

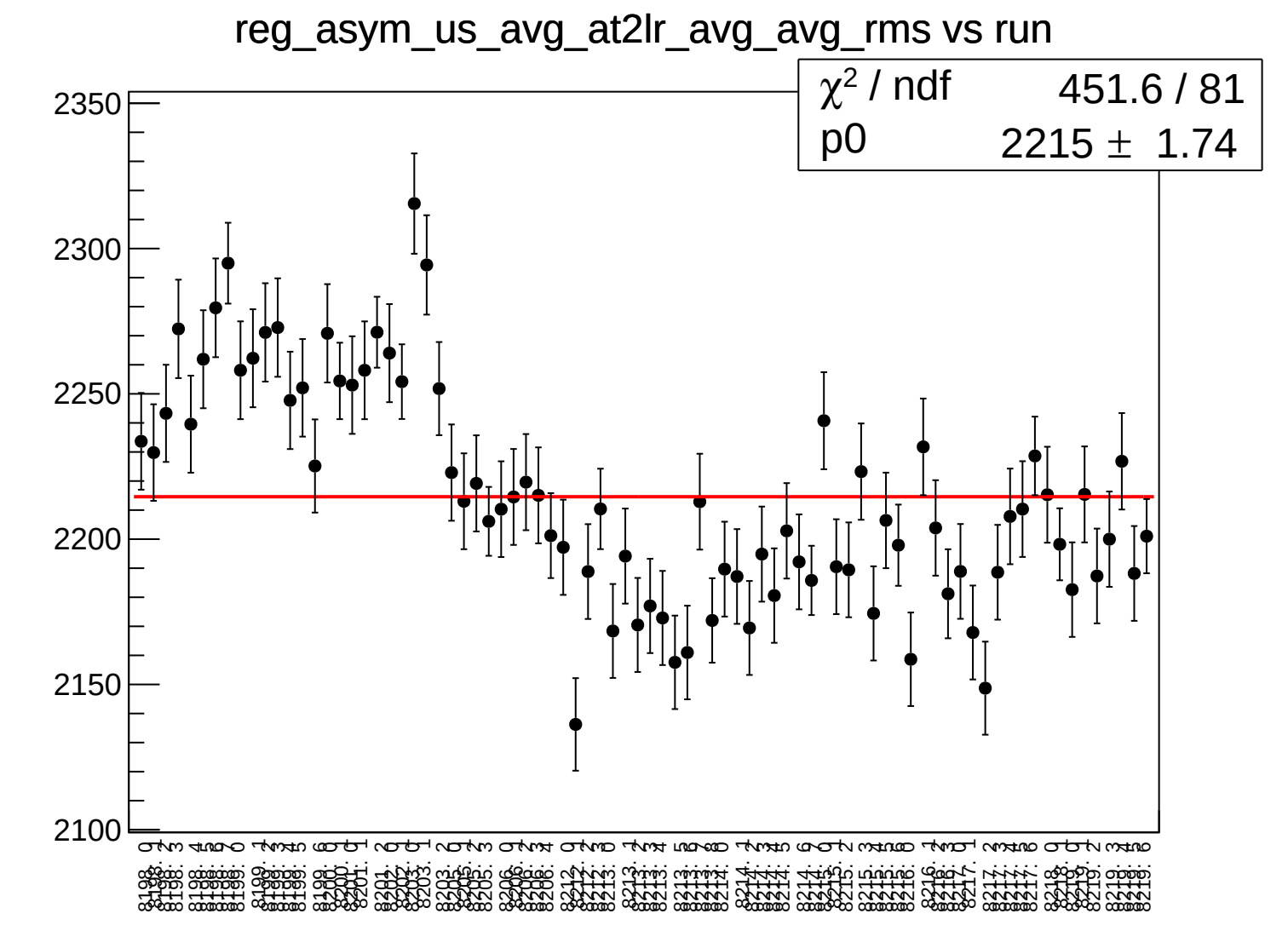

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.52e+05 / 81
p0 141.2 ± 0.1207
350
300
250
200
150
100
50

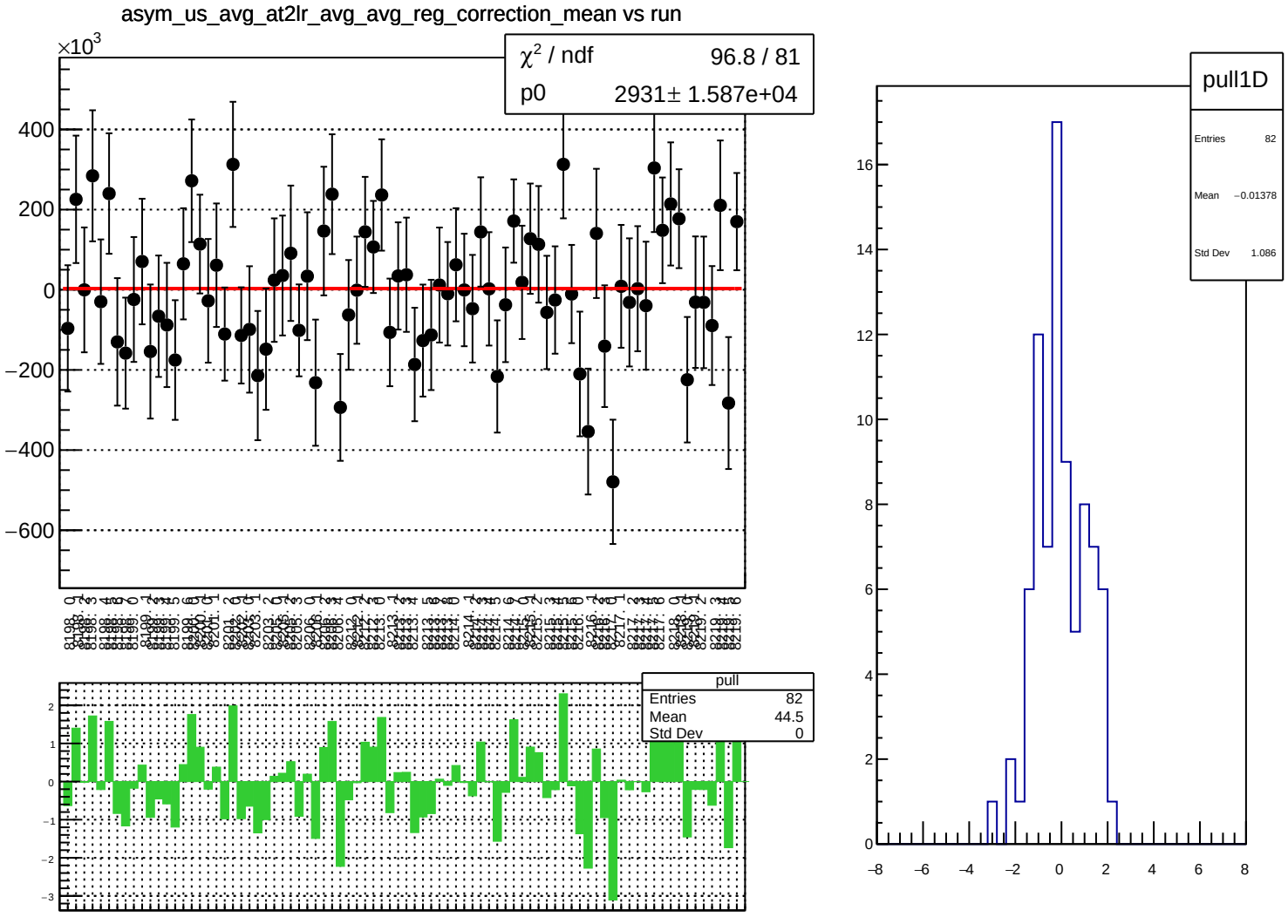

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.09 / 81
p0 1.602e−13 ± 9.271e−14
10
5
0
−5
−10
pull
Entries 82
Mean −191.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.0177
Std Dev 0.9695
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

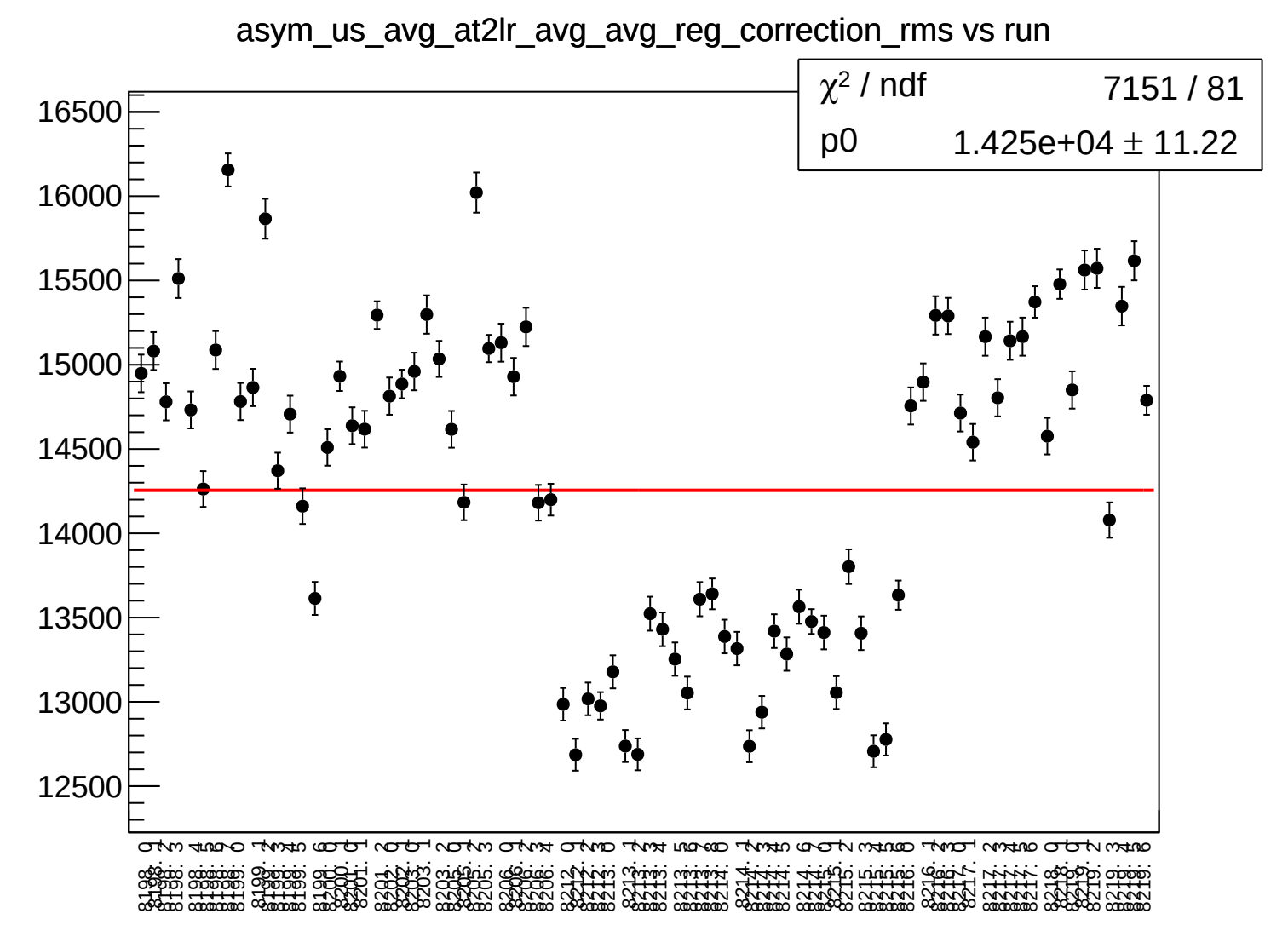

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.972e+05 / 81
p0 6.634e−11 ± 6.556e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

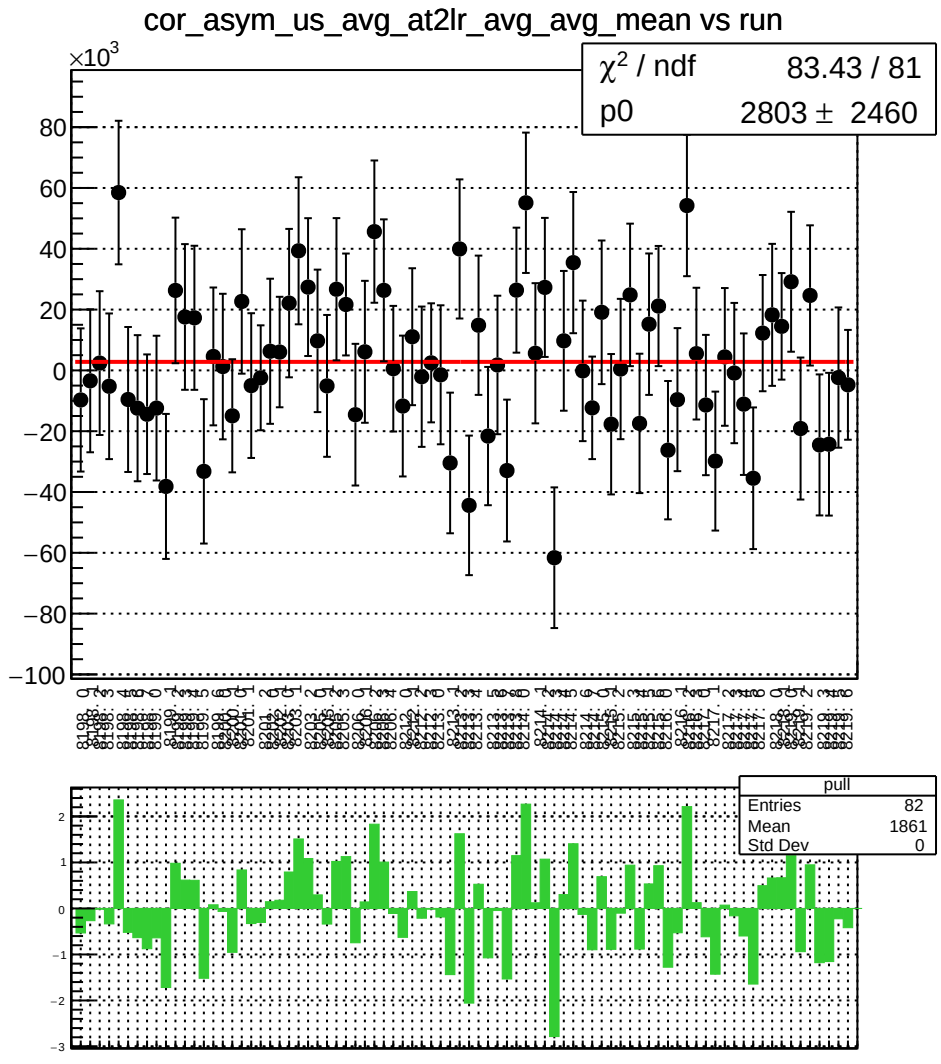

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 83.42 / 81
p0 2802 ± 2460
×10³
pull
Entries 82
Mean 1861
Std Dev 0

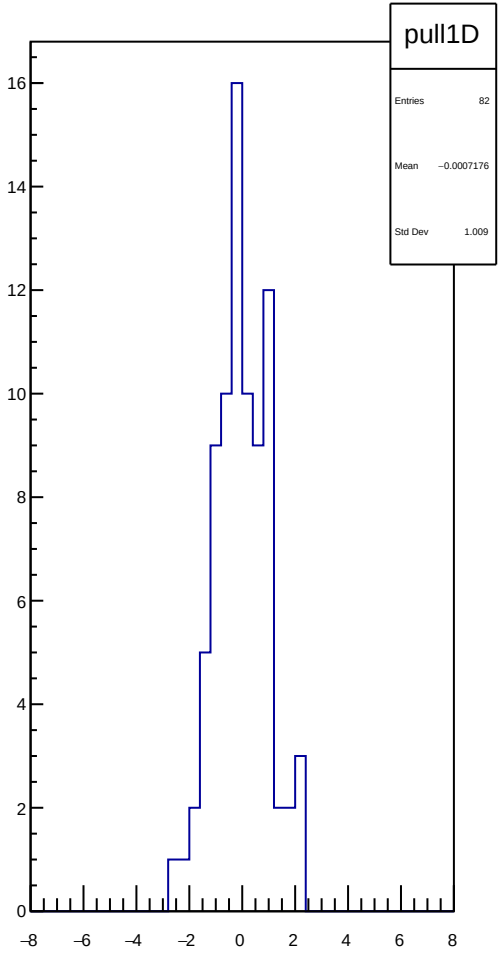

pull1D
Entries 82
Mean −0.0007175
Std Dev 1.009

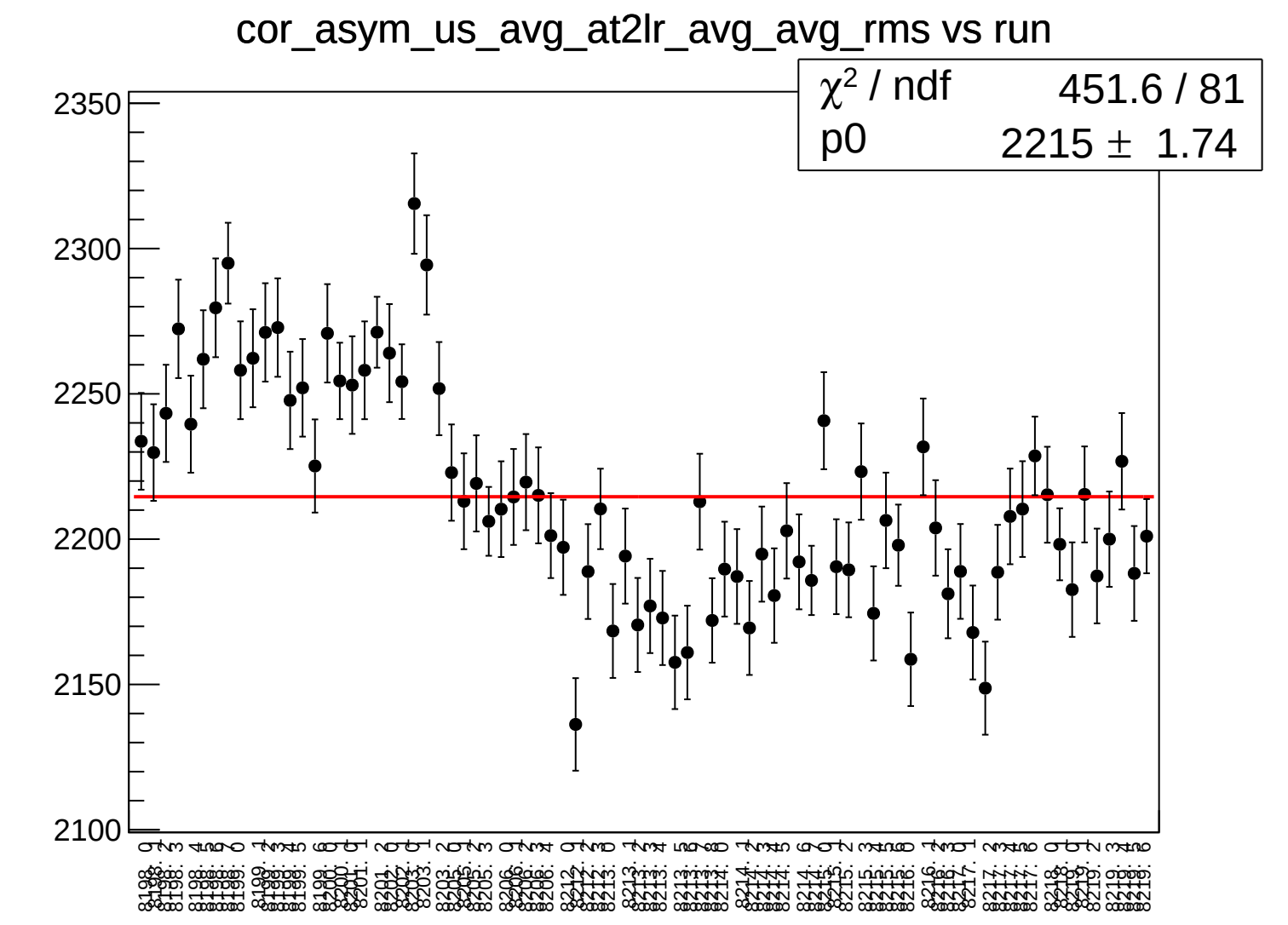

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 451.6 / 81
p0 2215 ± 1.74
2350
2300
2250
2200
2150
2100

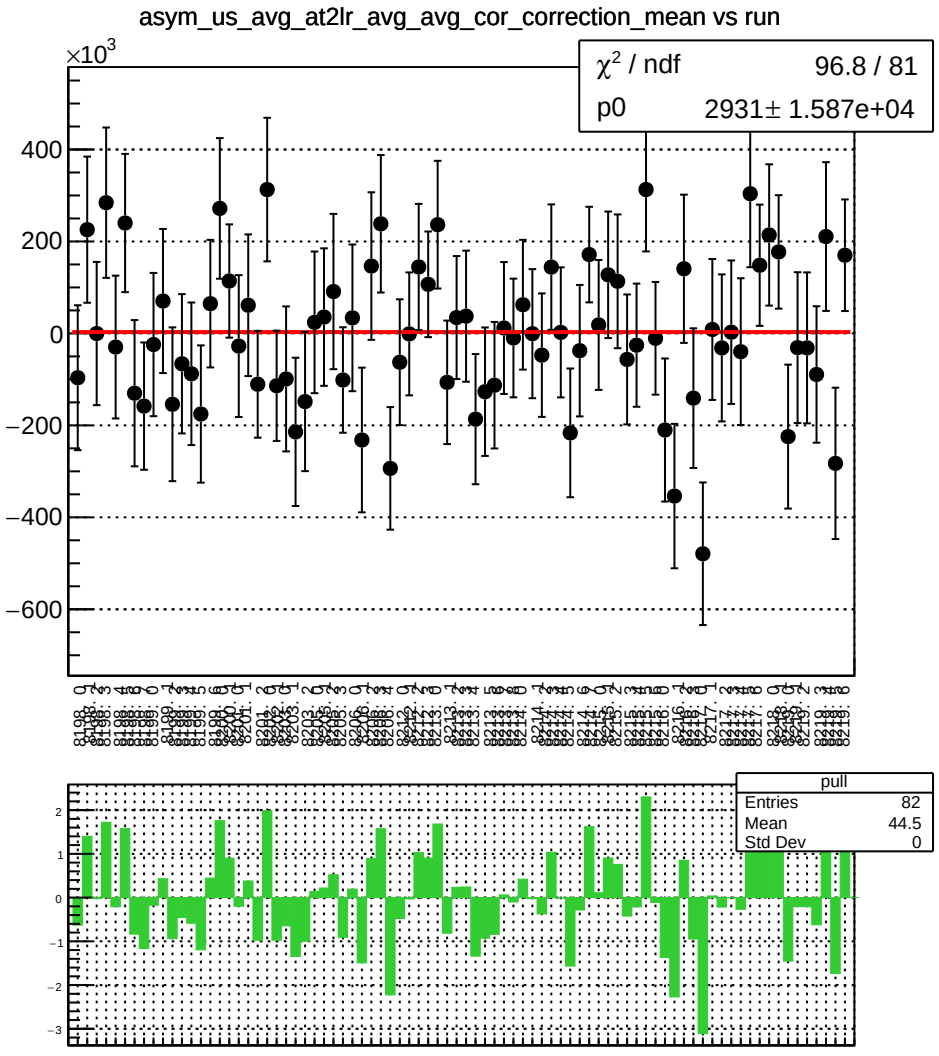

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.8 / 81
p0 2931± 1.587e+04
400
200
0
−200
−400
−600
pull
Entries 82
Mean 44.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.01378
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

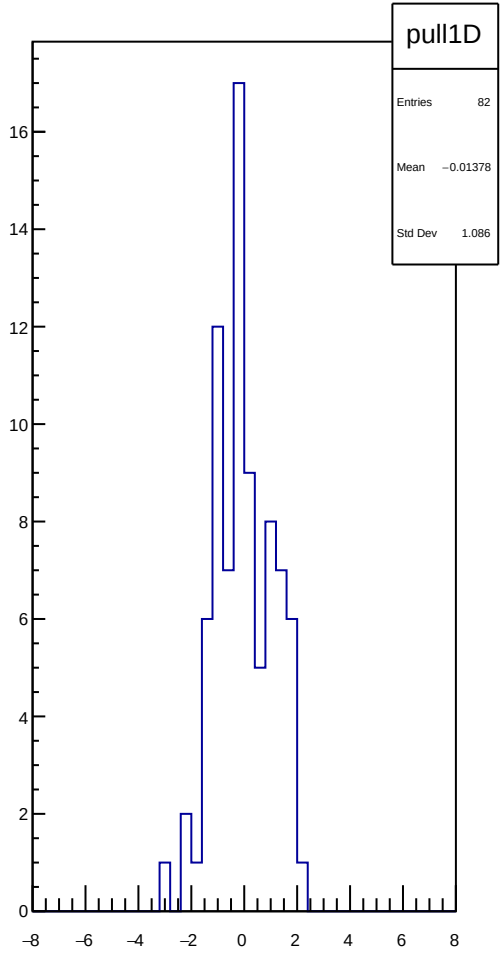

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 7151 / 81
p0 1.425e+04 ± 11.22
16500
16000
15500
15000
14500
14000
13500
13000
12500

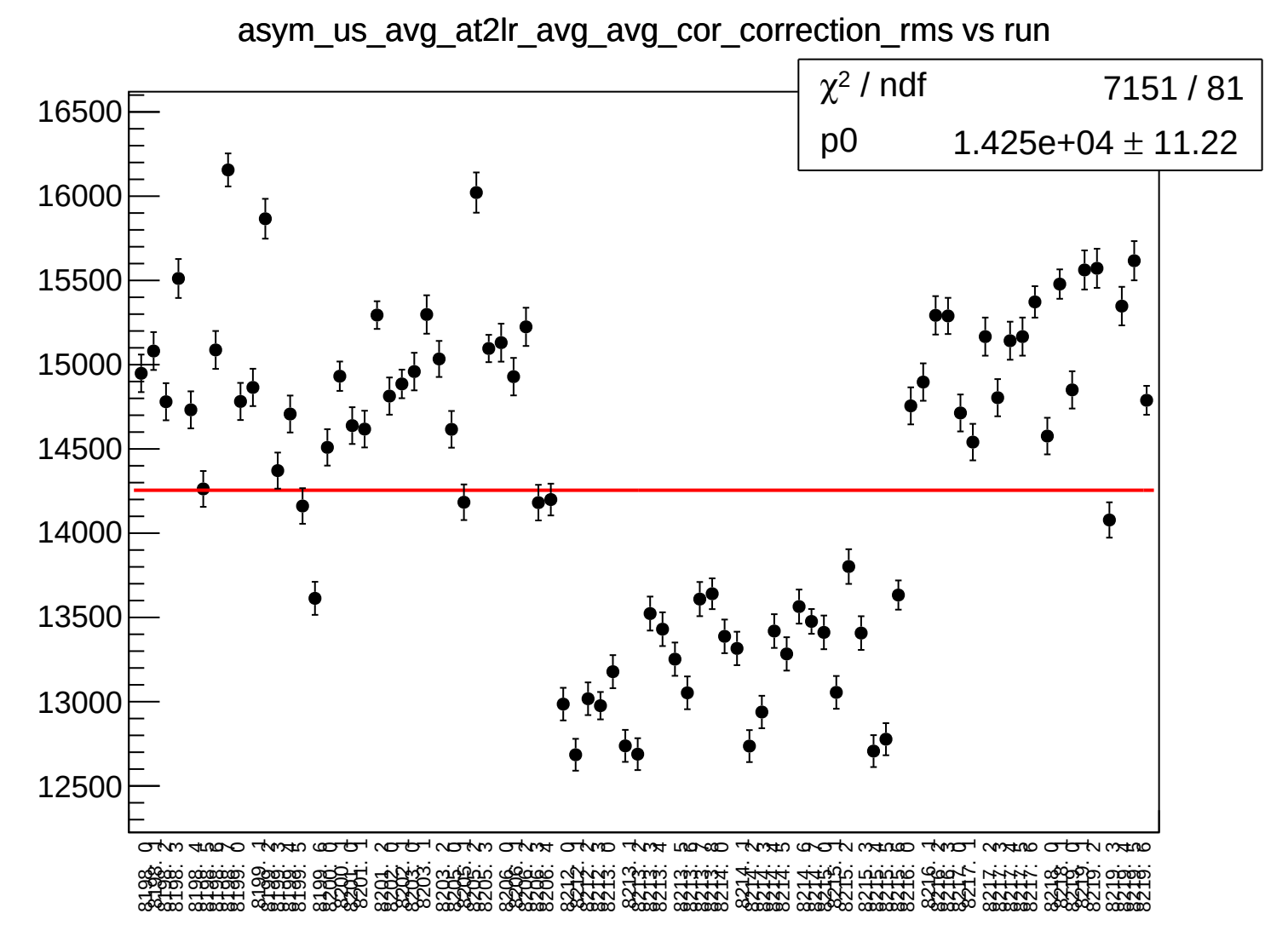

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 83.43 / 81
p0 2803 ± 2460
×10³
pull
Entries 82
Mean 1861
Std Dev 0

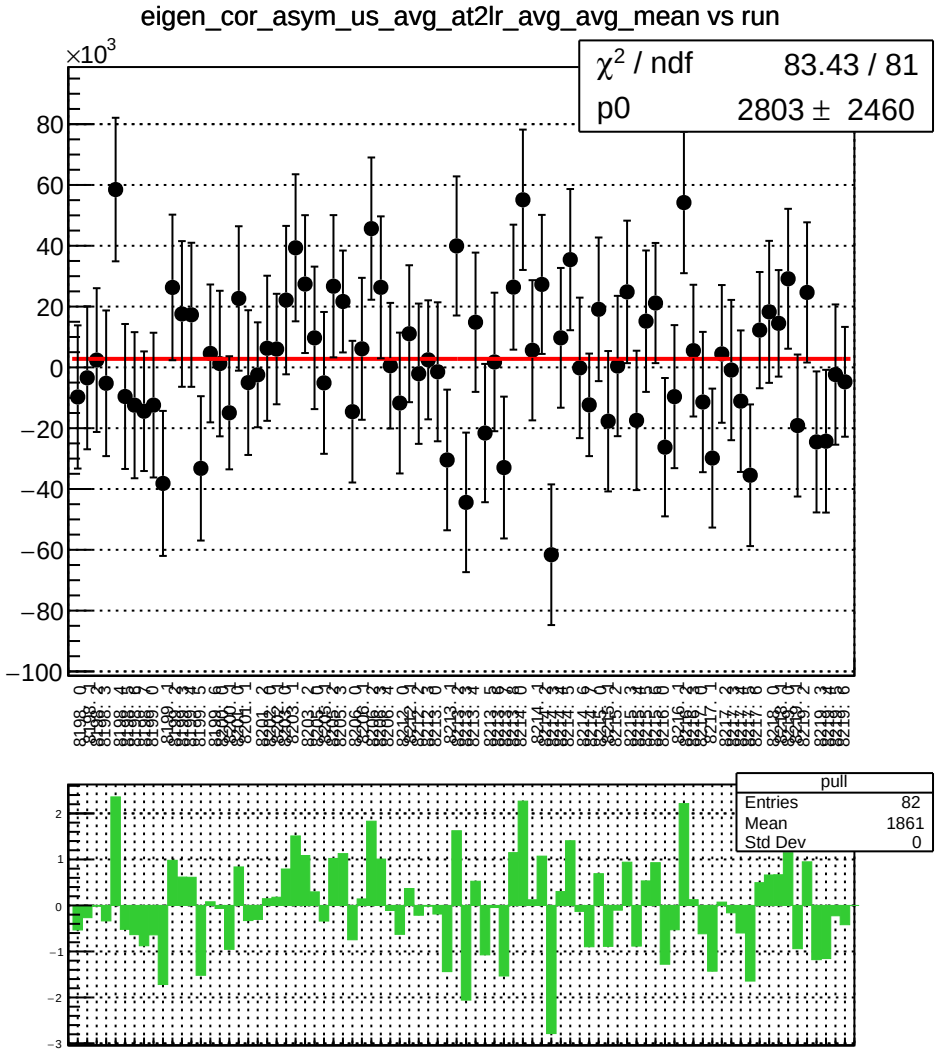

pull1D
Entries 82
Mean −0.0007176
Std Dev 1.009

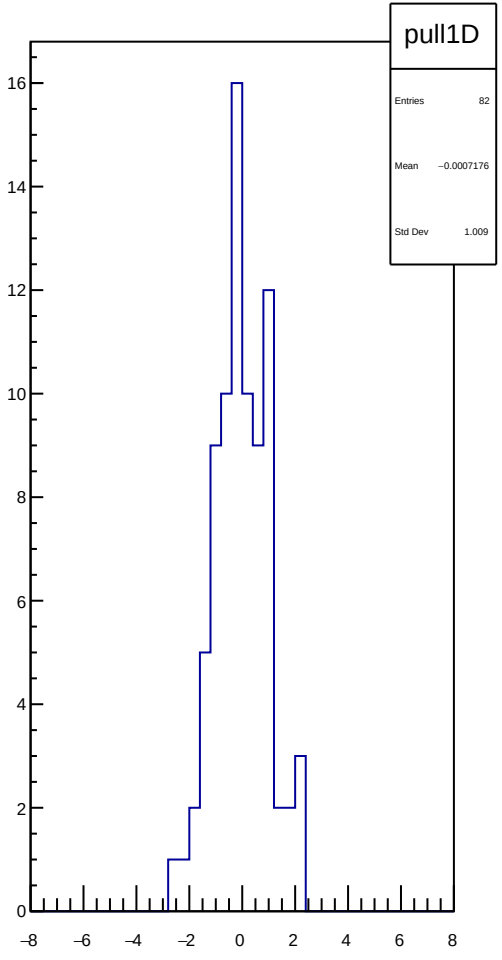

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 451.6 / 81
p0 2215 ± 1.74
2350
2300
2250
2200
2150
2100

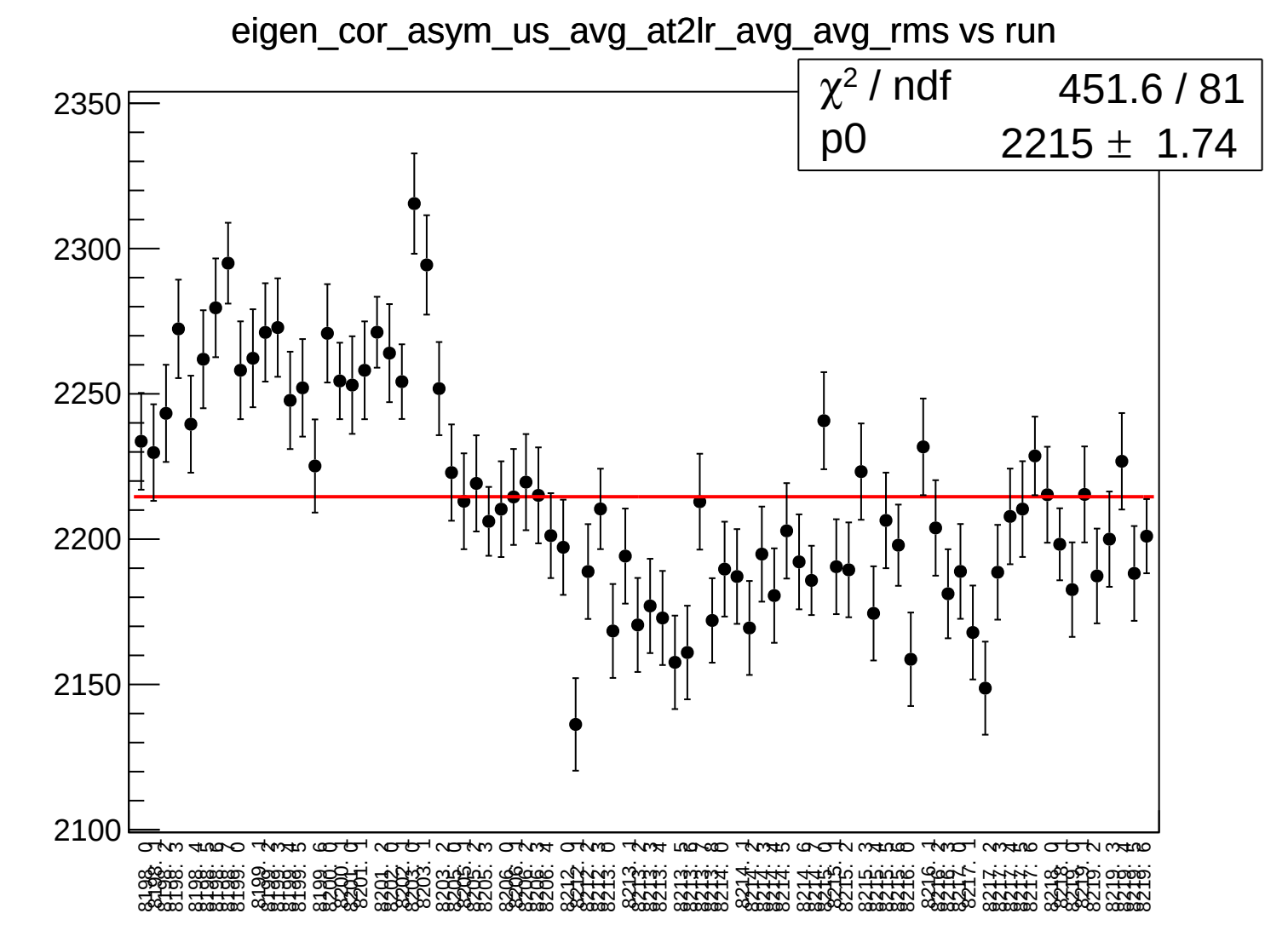

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.8 / 81
p0 2931± 1.587e+04
400
200
0
−200
−400
−600
pull
Entries 82
Mean 44.5
Std Dev 0
2
1
0
−1
−2
−3

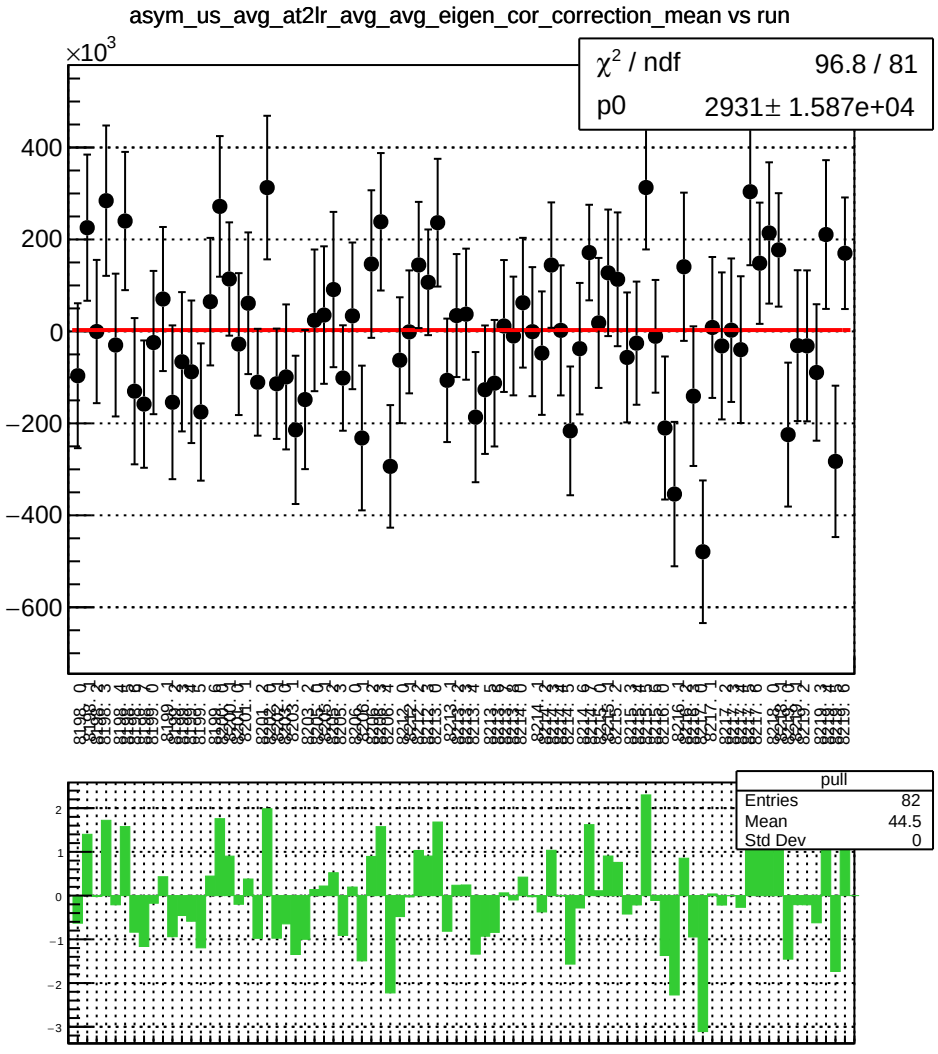

pull1D
Entries 82
Mean −0.01378
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

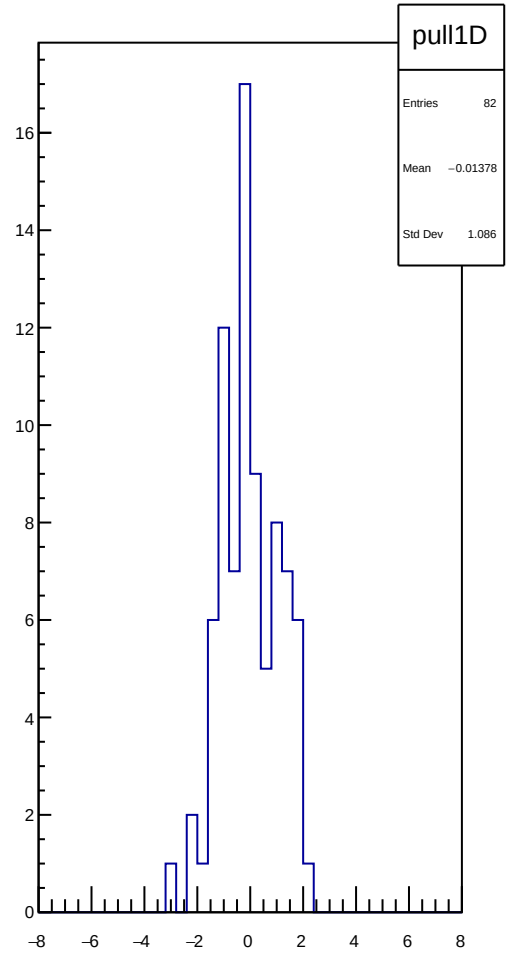

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 7151 / 81
p0 1.425e+04 ± 11.22
16500
16000
15500
15000
14500
14000
13500
13000
12500

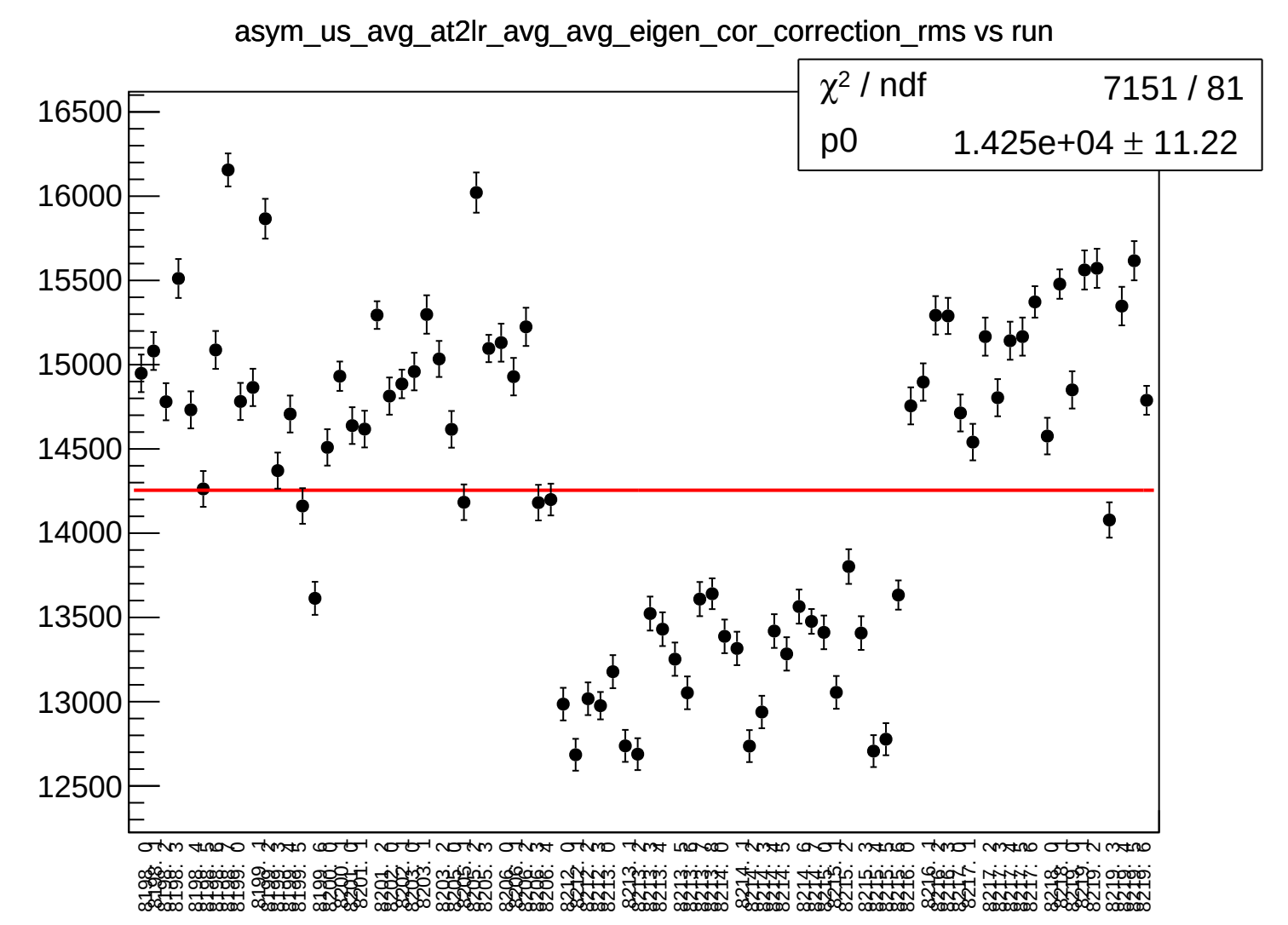

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 83.43 / 81
p0 2803 ± 2460
pull
Entries 82
Mean 1861
Std Dev 0

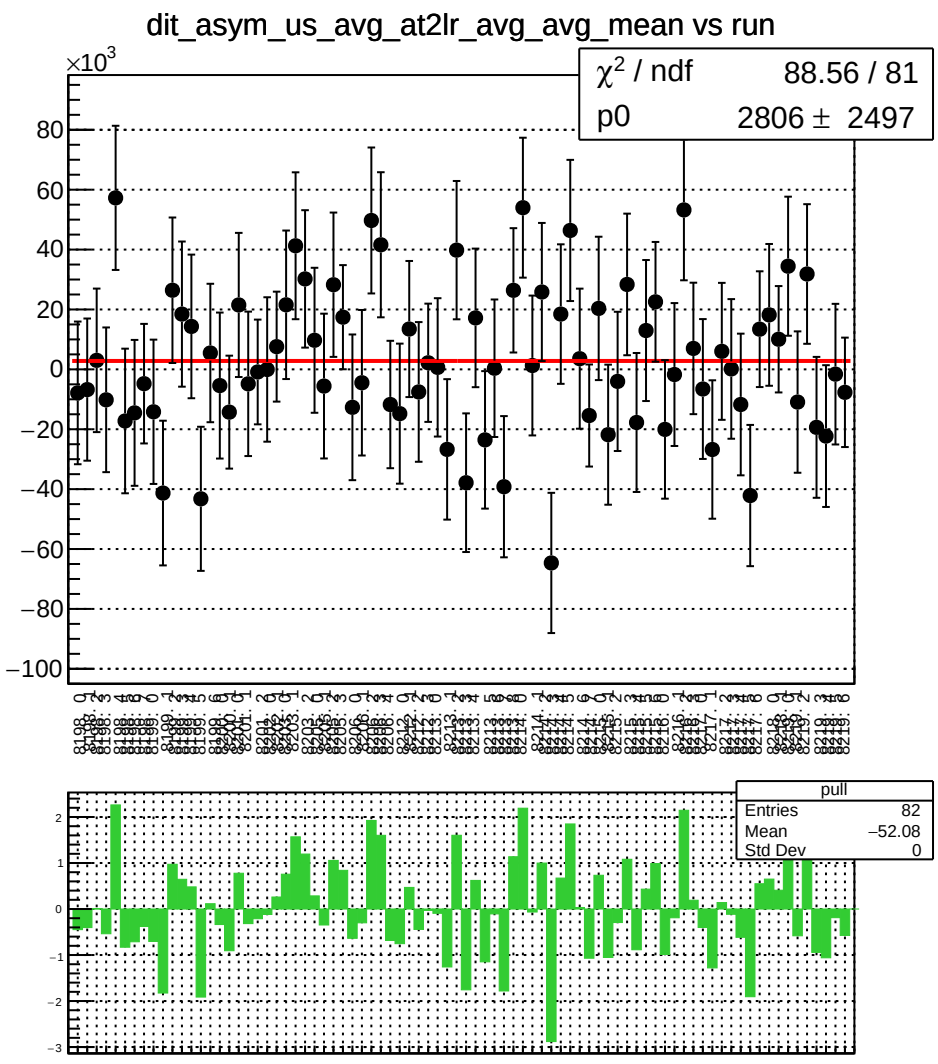

pull1D
Entries 82
Mean −0.0007176
Std Dev 1.009

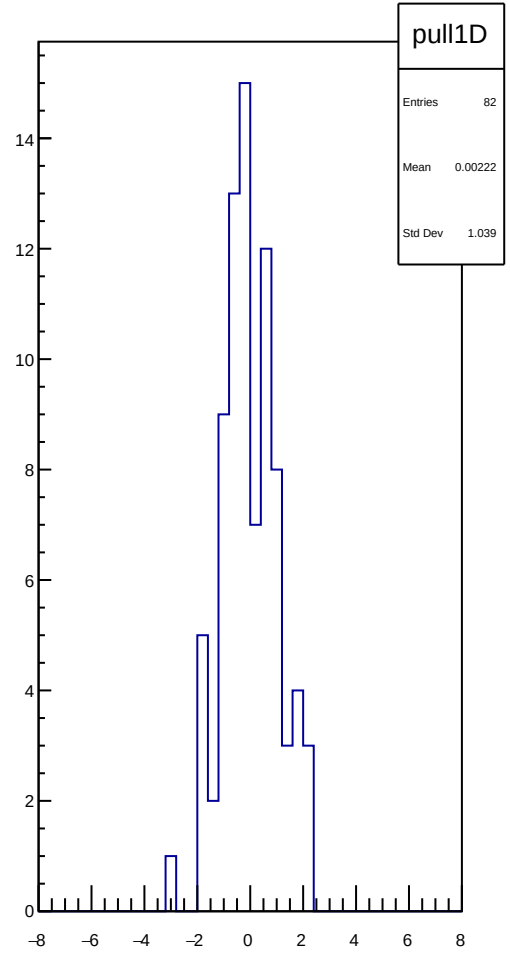

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 451.6 / 81
p0 2215 ± 1.74
2350
2300
2250
2200
2150
2100

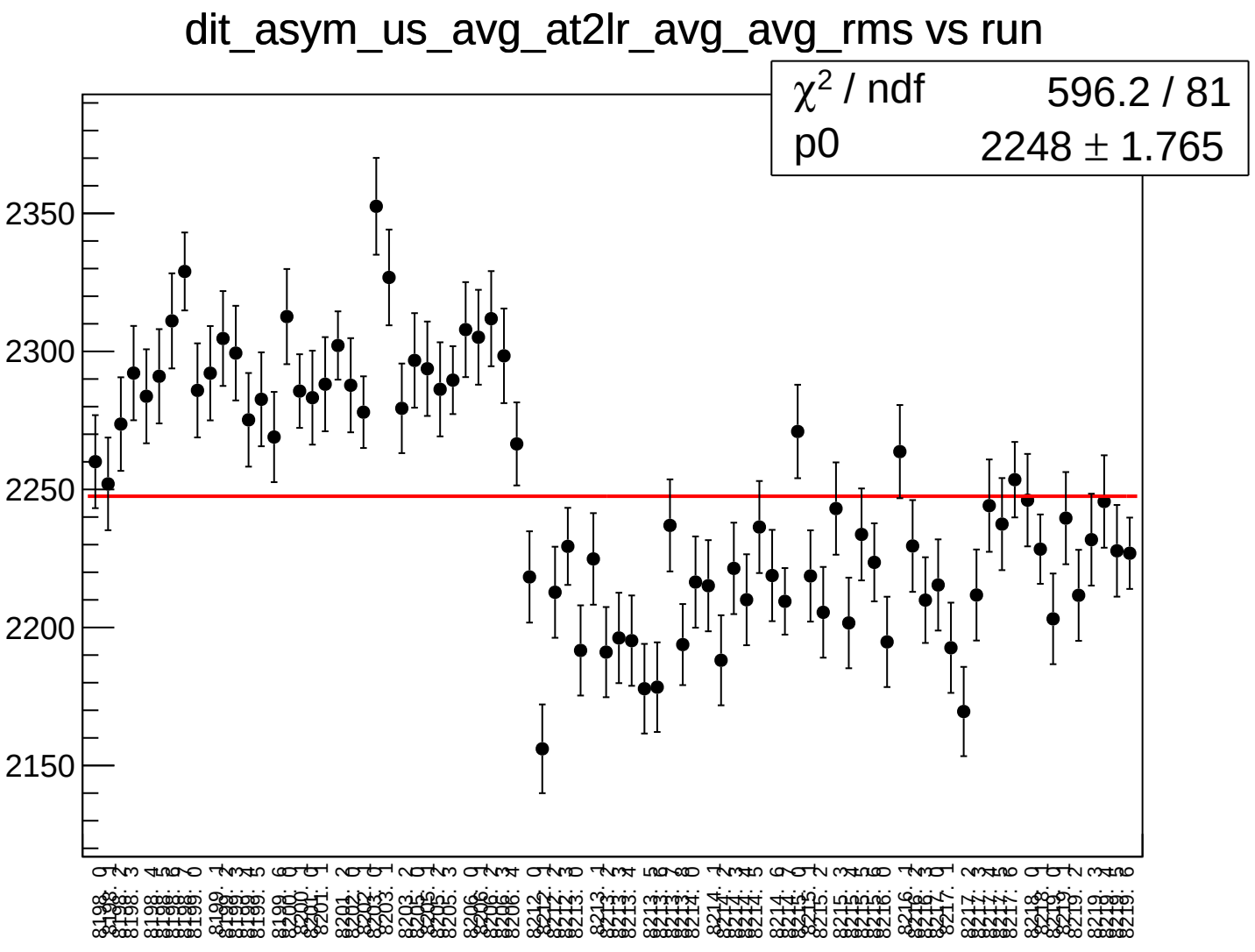

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.8 / 81
p0 2931± 1.587e+04
400
200
0
−200
−400
−600
pull
Entries 82
Mean 44.5
Std Dev 0
2
1
0
−1
−2
−3

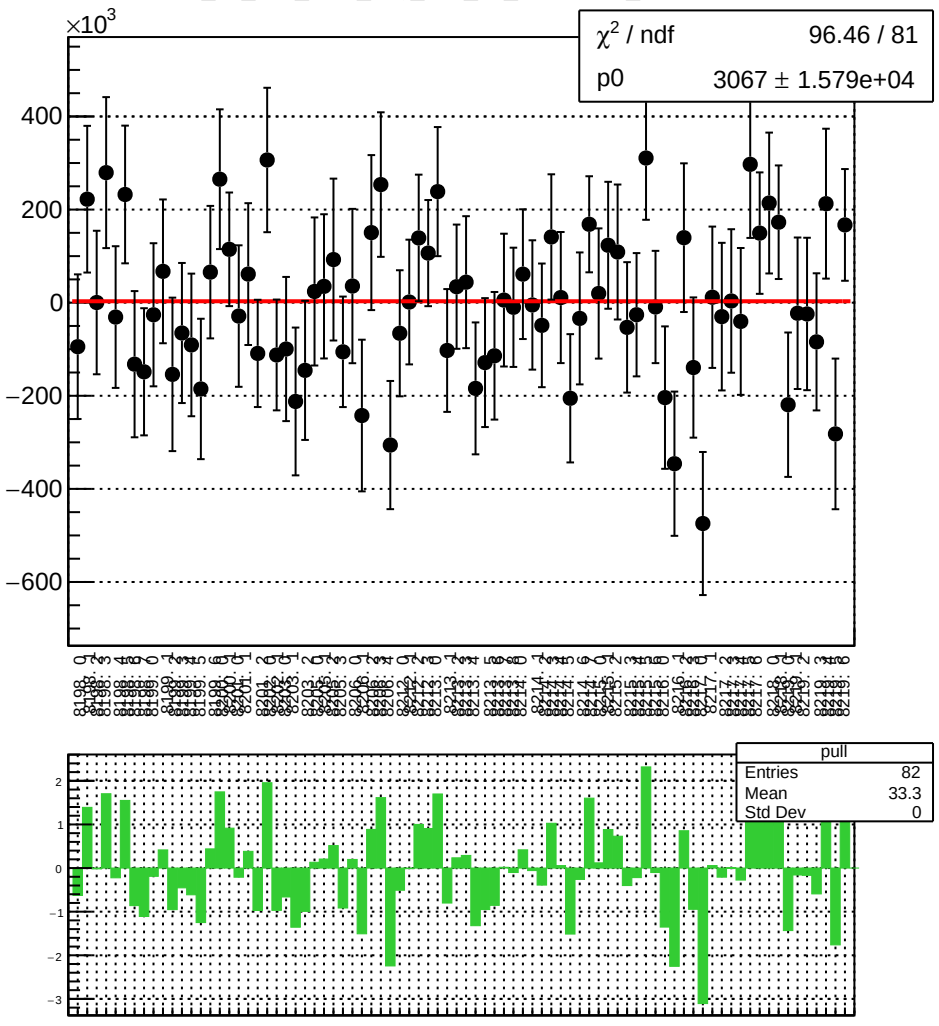

pull1D
Entries 82
Mean −0.01378
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

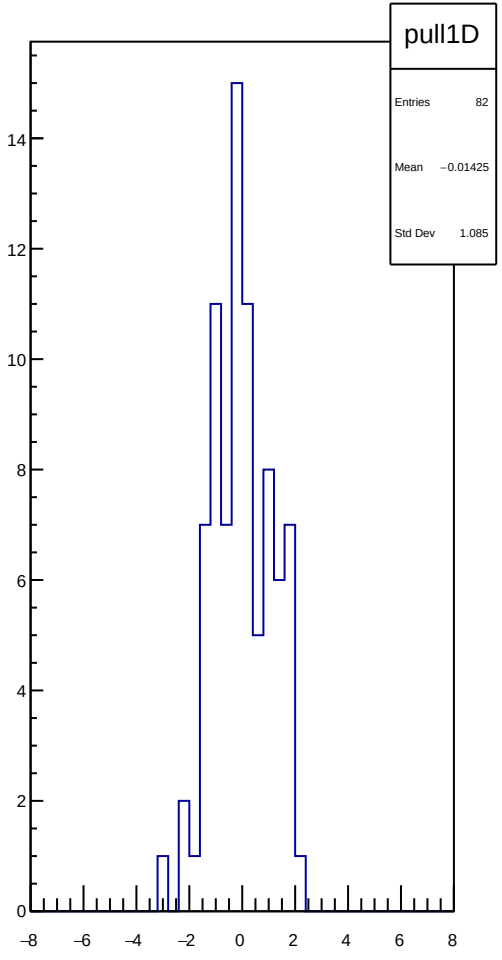

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 7151 / 81
p0 1.425e+04 ± 11.22
16500
16000
15500
15000
14500
14000
13500
13000
12500

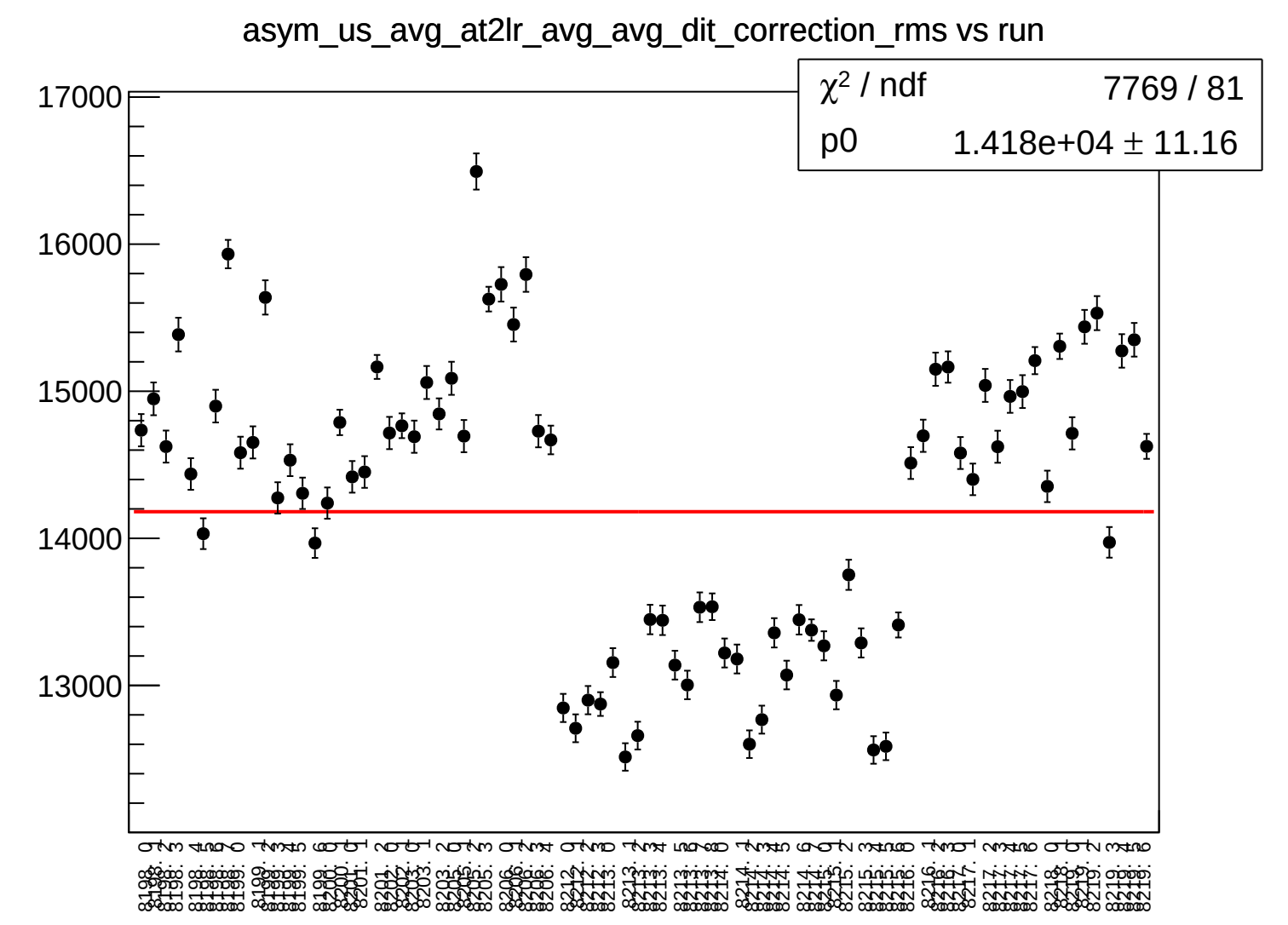

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 88.56 / 81
p0 2806 ± 2497
pull
Entries 82
Mean −52.08
Std Dev 0

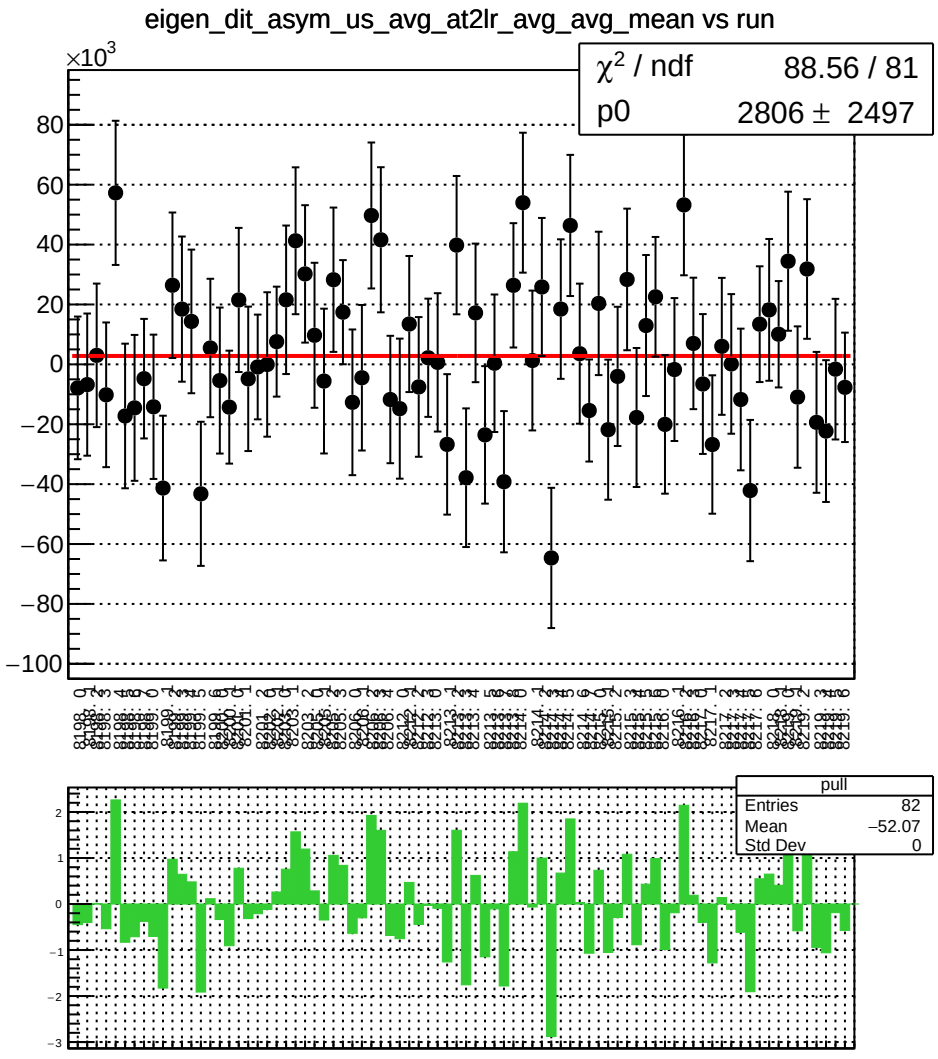

pull1D
Entries 82
Mean 0.00222
Std Dev 1.039

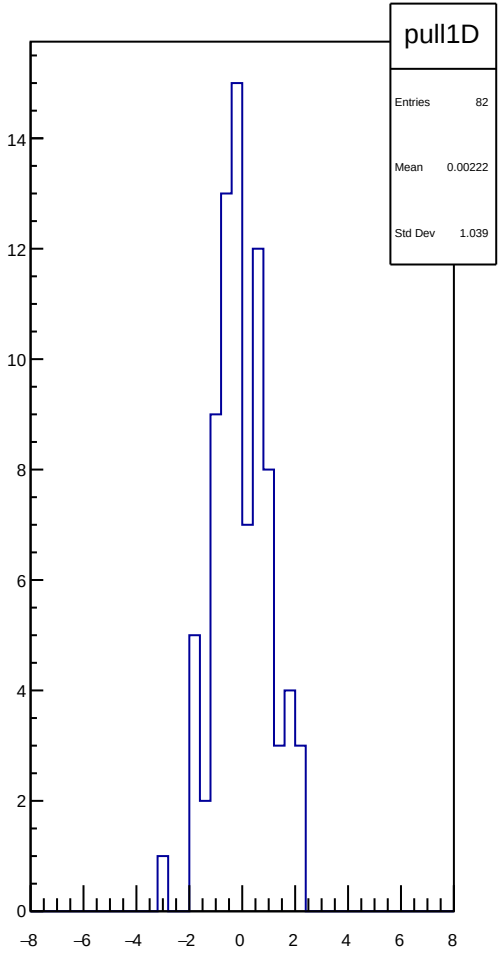

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 596.2 / 81
p0 2248 ± 1.765
2350
2300
2250
2200
2150

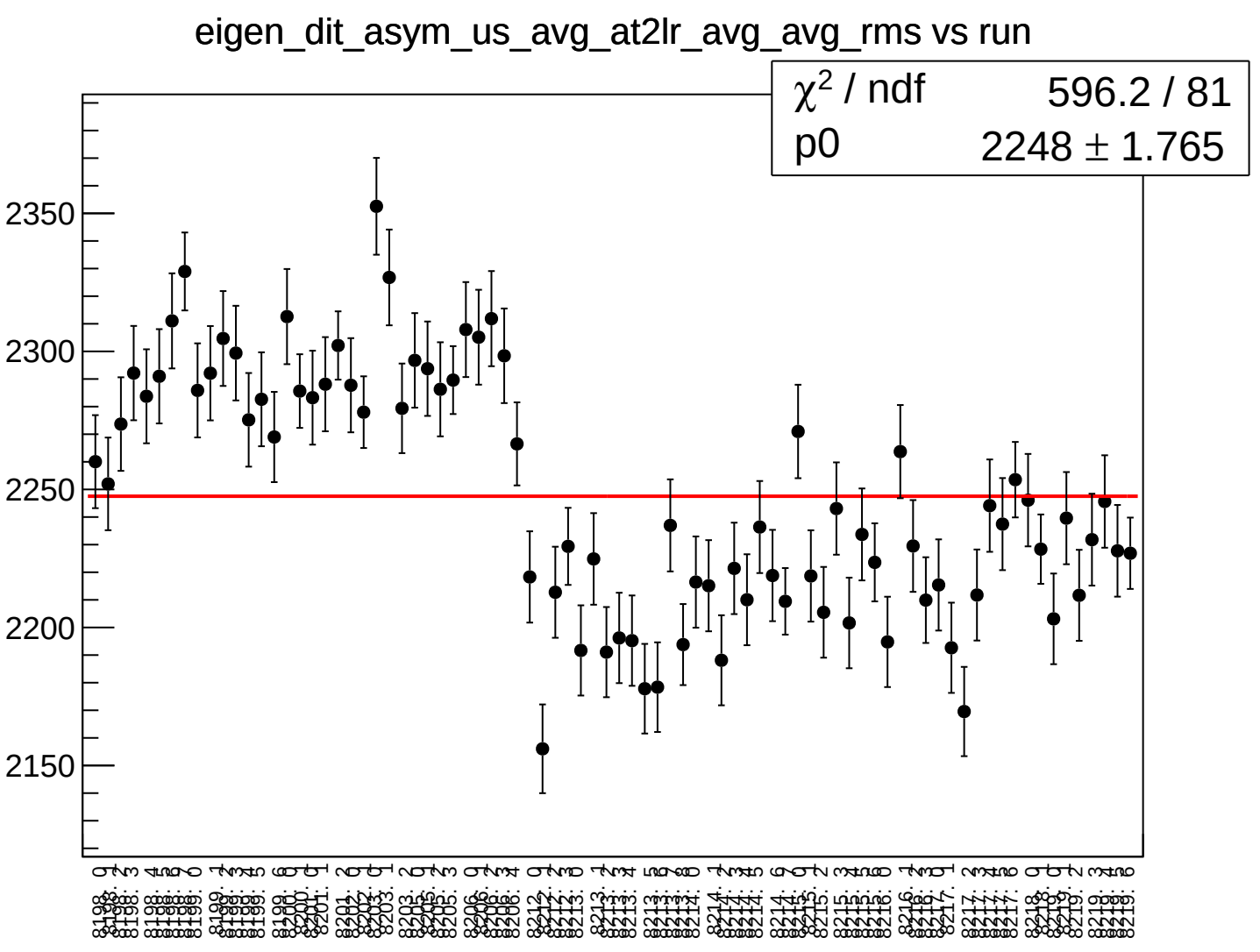

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.46 / 81
p0 3067 ± 1.579e+04
400
200
0
−200
−400
−600
pull
Entries 82
Mean 33.3
Std Dev 0
2
1
0
−1
−2
−3

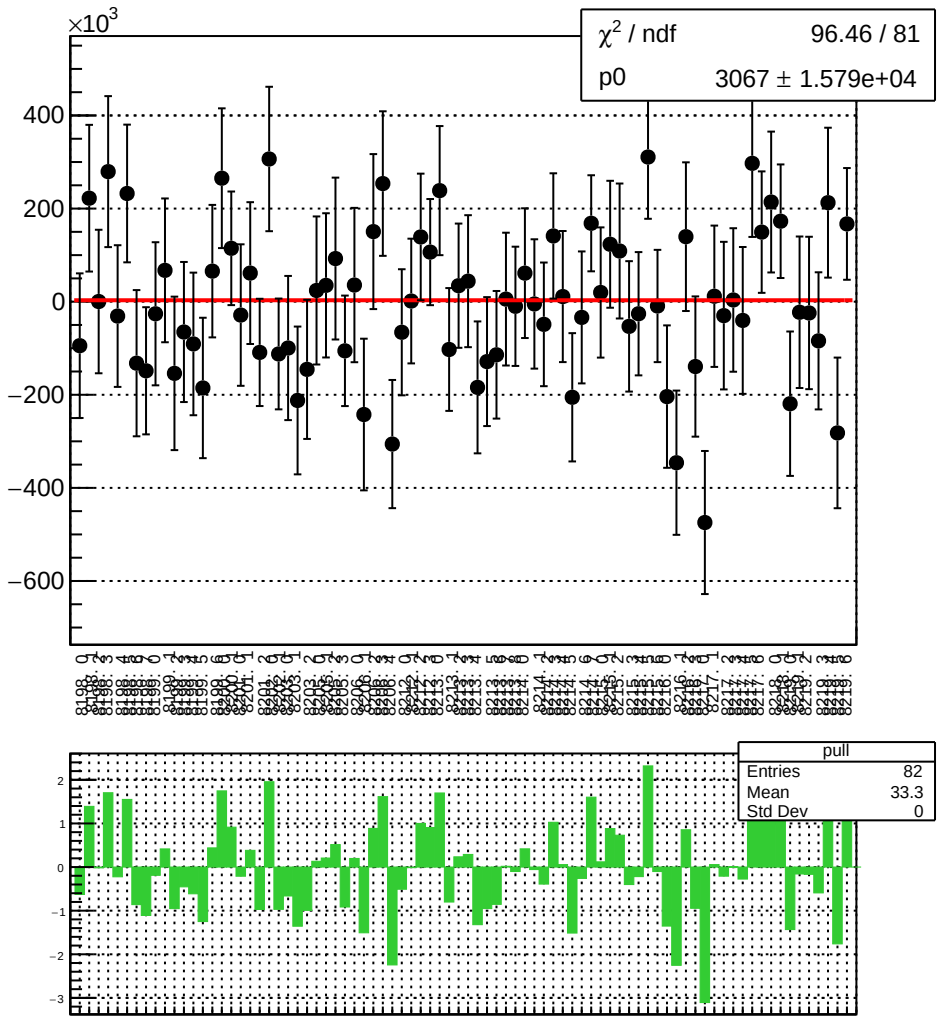

pull1D
Entries 82
Mean −0.01425
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

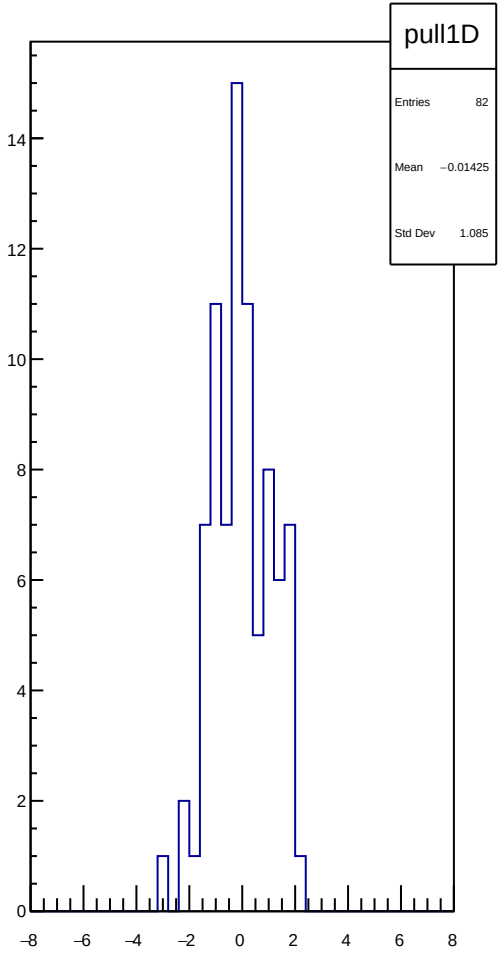

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 7769 / 81
p0 1.418e+04 ± 11.16
17000
16000
15000
14000
13000

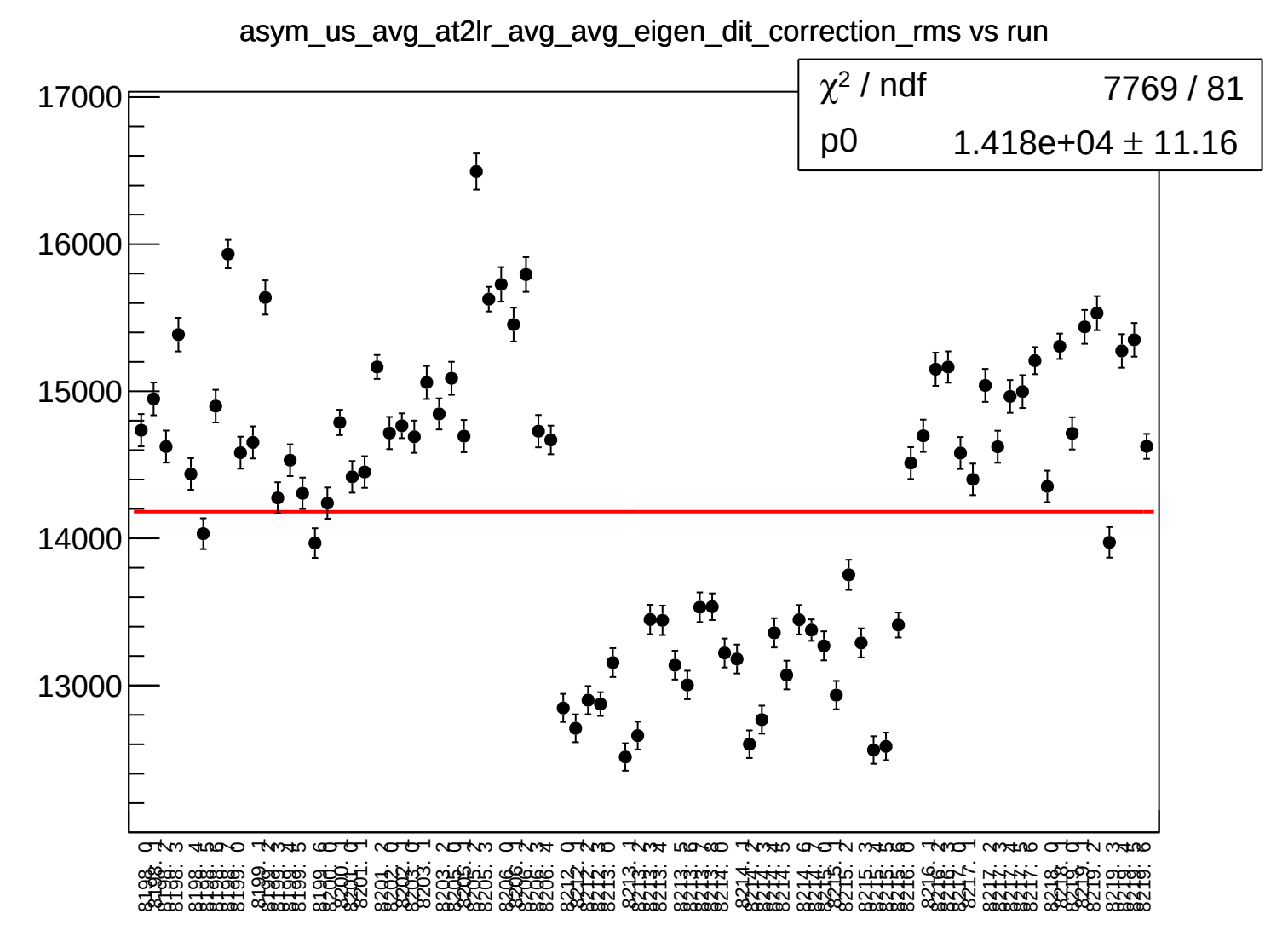

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 88.56 / 81
p0 2806 ± 2497
pull
Entries 82
Mean −52.07
Std Dev 0

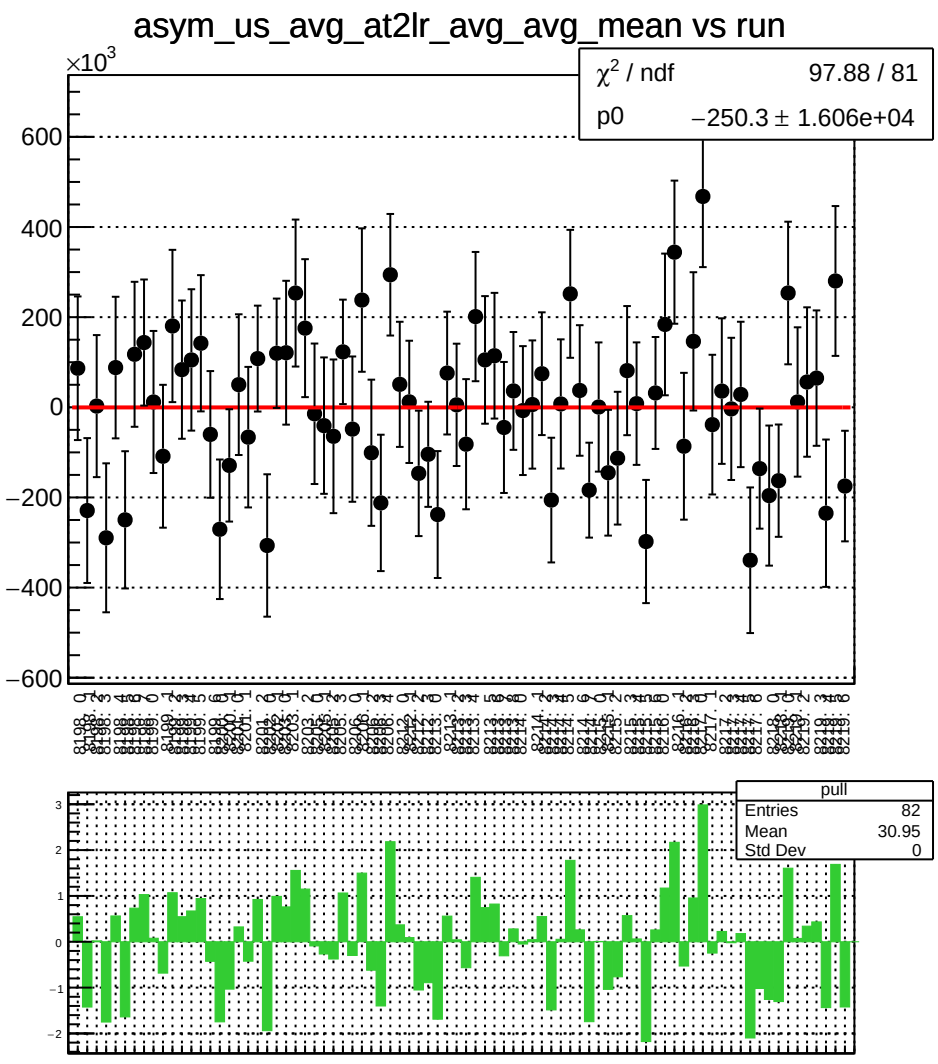

pull1D
Entries 82
Mean 0.00222
Std Dev 1.039

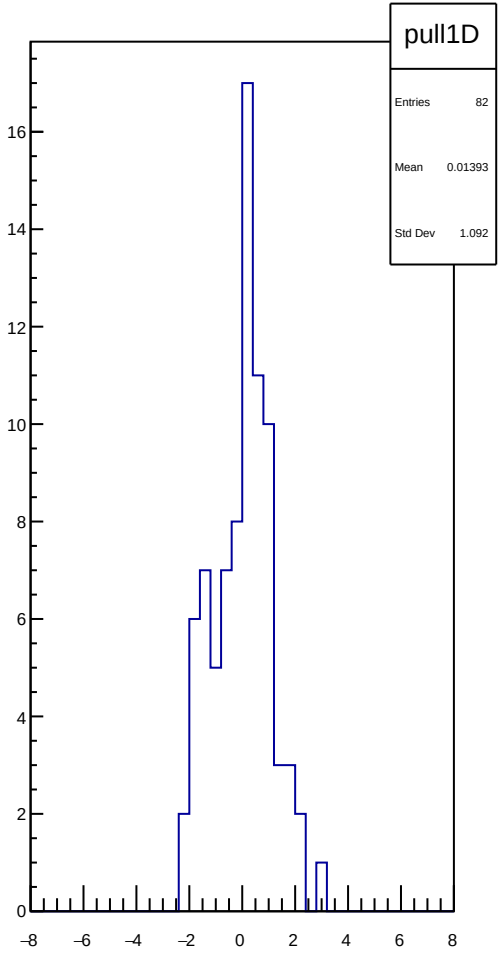

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 596.2 / 81
p0 2248 ± 1.765
2350
2300
2250
2200
2150

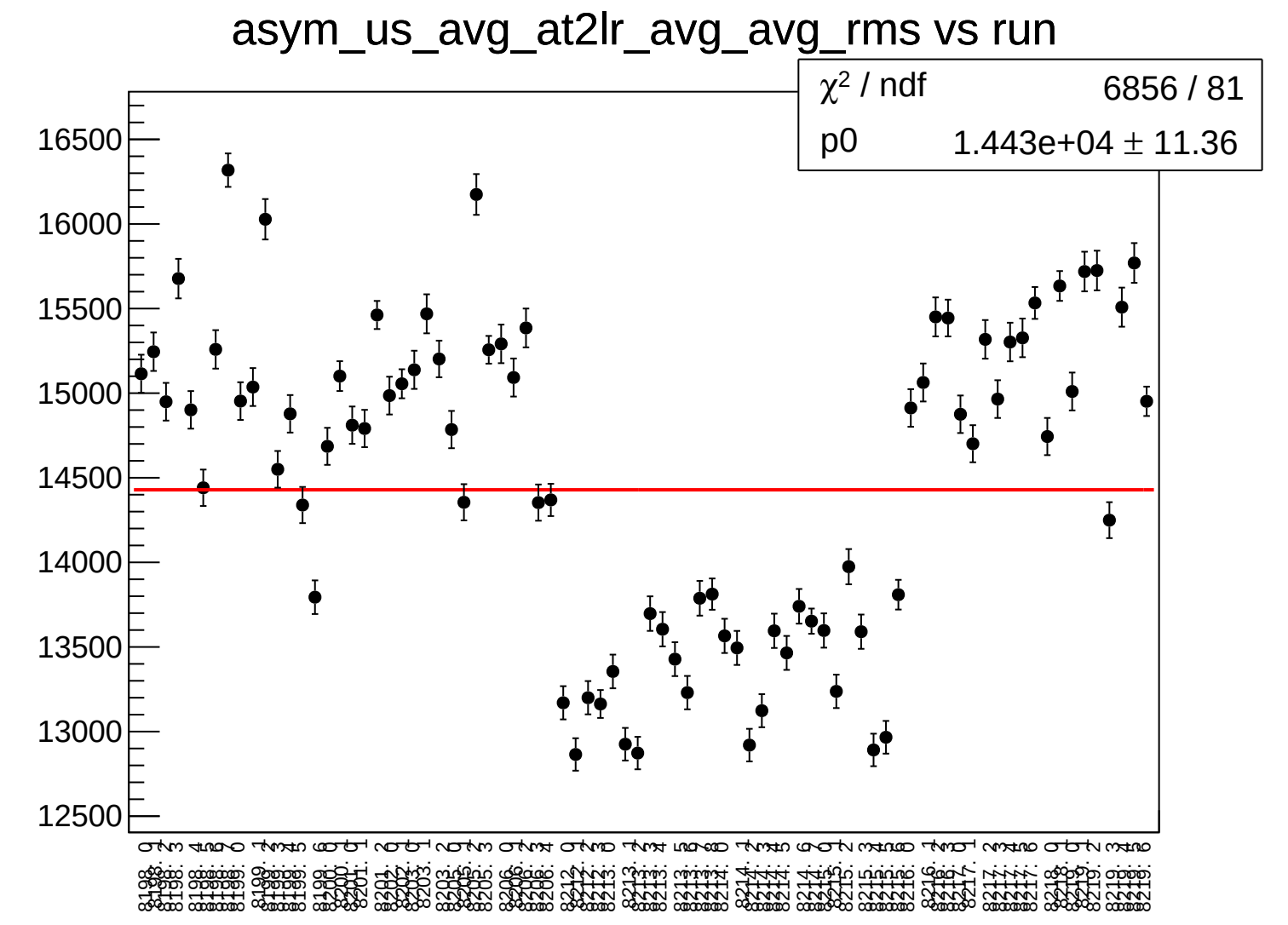

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.46 / 81
p0 3067 ± 1.579e+04
400
200
0
−200
−400
−600
pull
Entries 82
Mean 33.3
Std Dev 0
2
1
0
−1
−2
−3

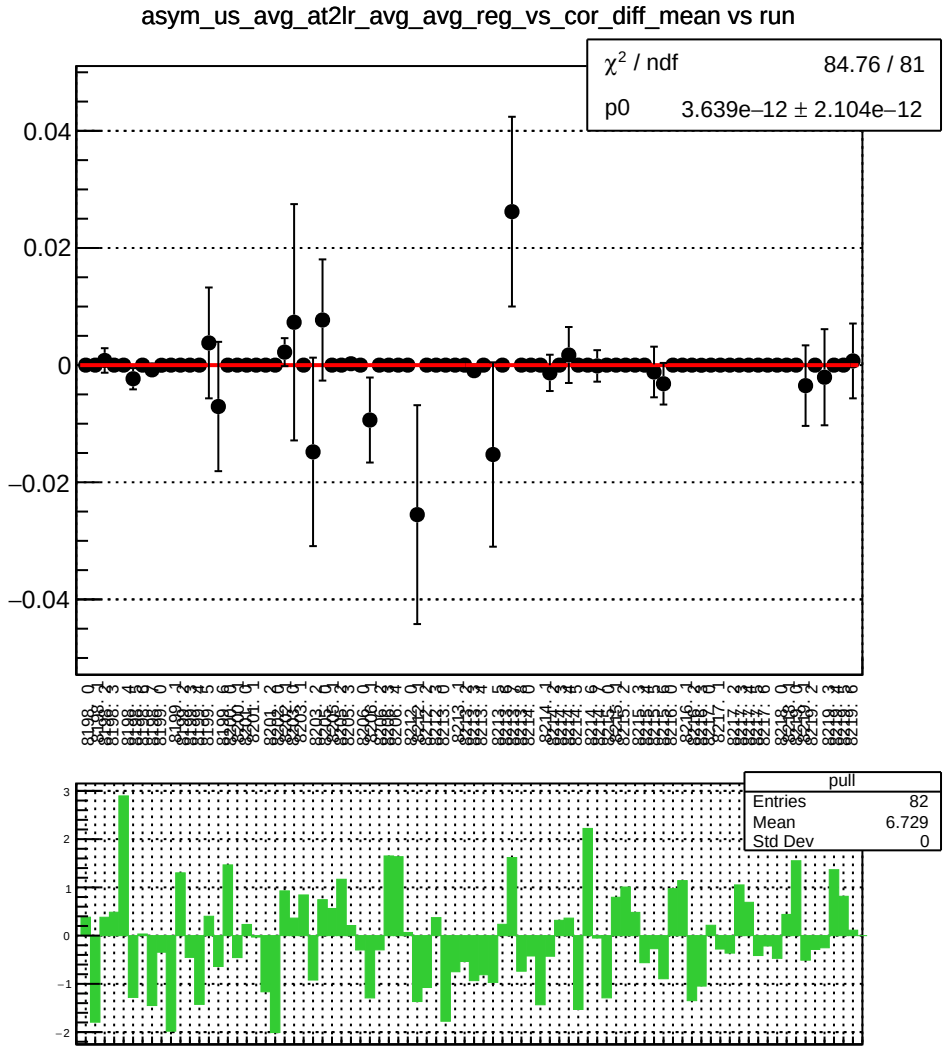

pull1D
Entries 82
Mean −0.01425
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

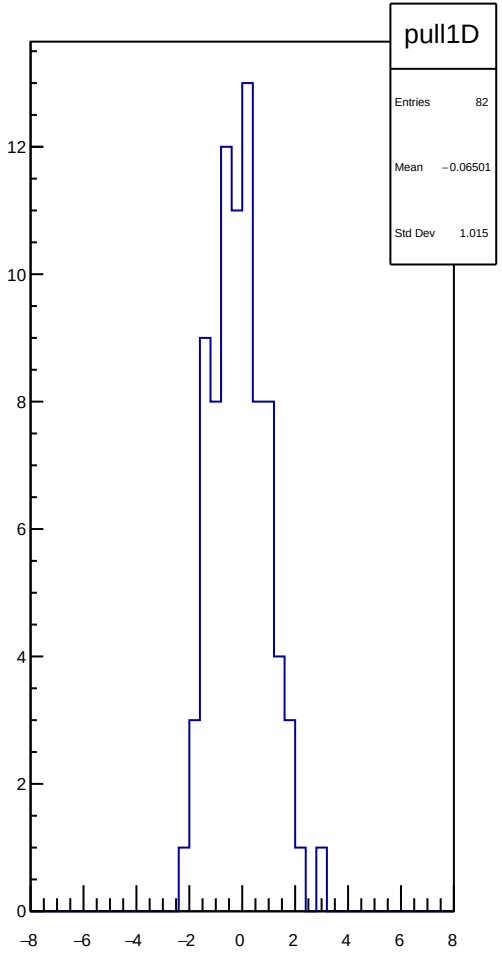

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7769 / 81
p0 1.418e+04 ± 11.16
17000
16000
15000
14000
13000

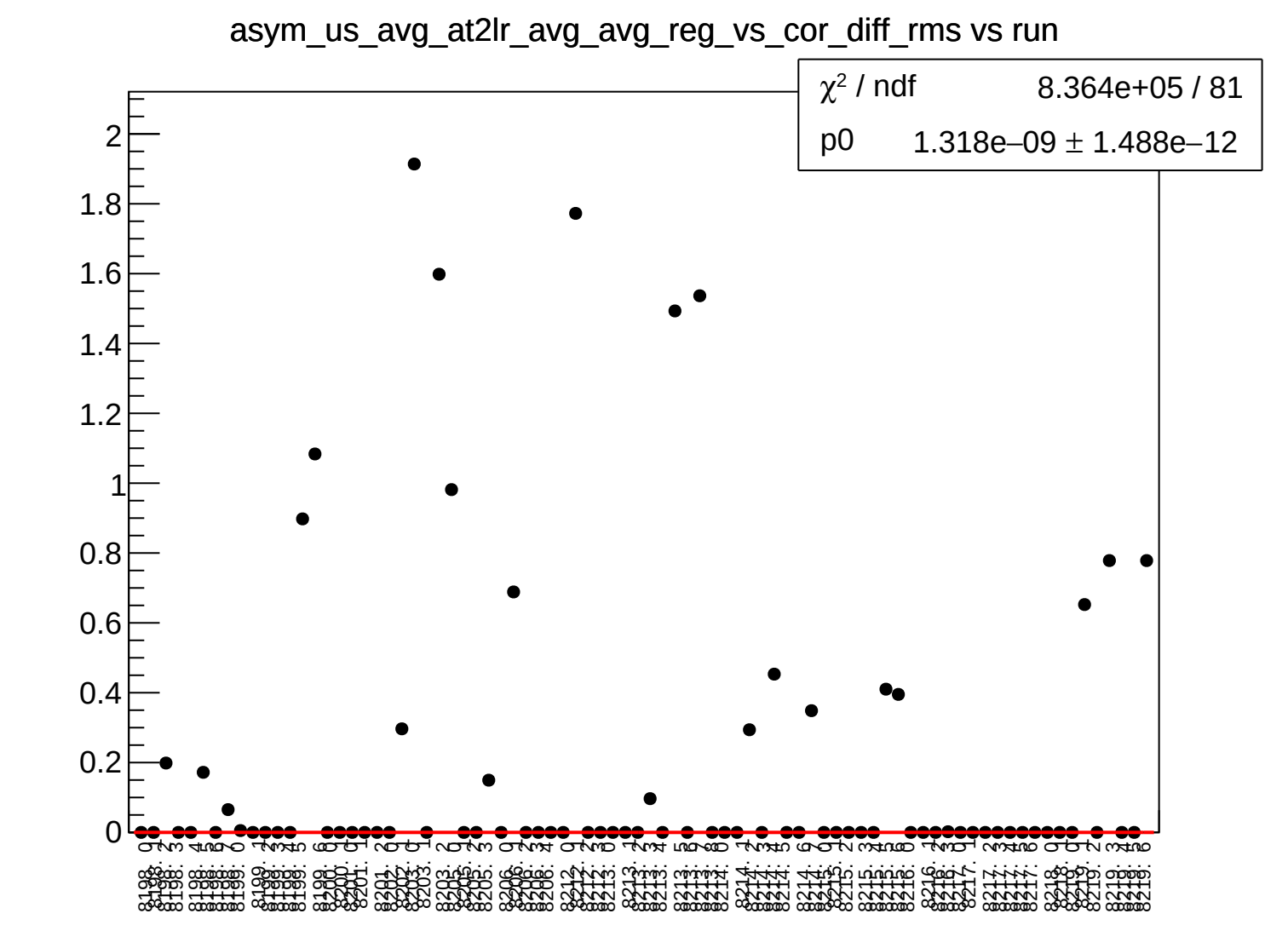

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 97.88 / 81
p0 −250.3 ± 1.606e+04
600
400
200
0
−200
−400
−600
pull
Entries 82
Mean 30.95
Std Dev 0
3
2
1
0
−1
−2

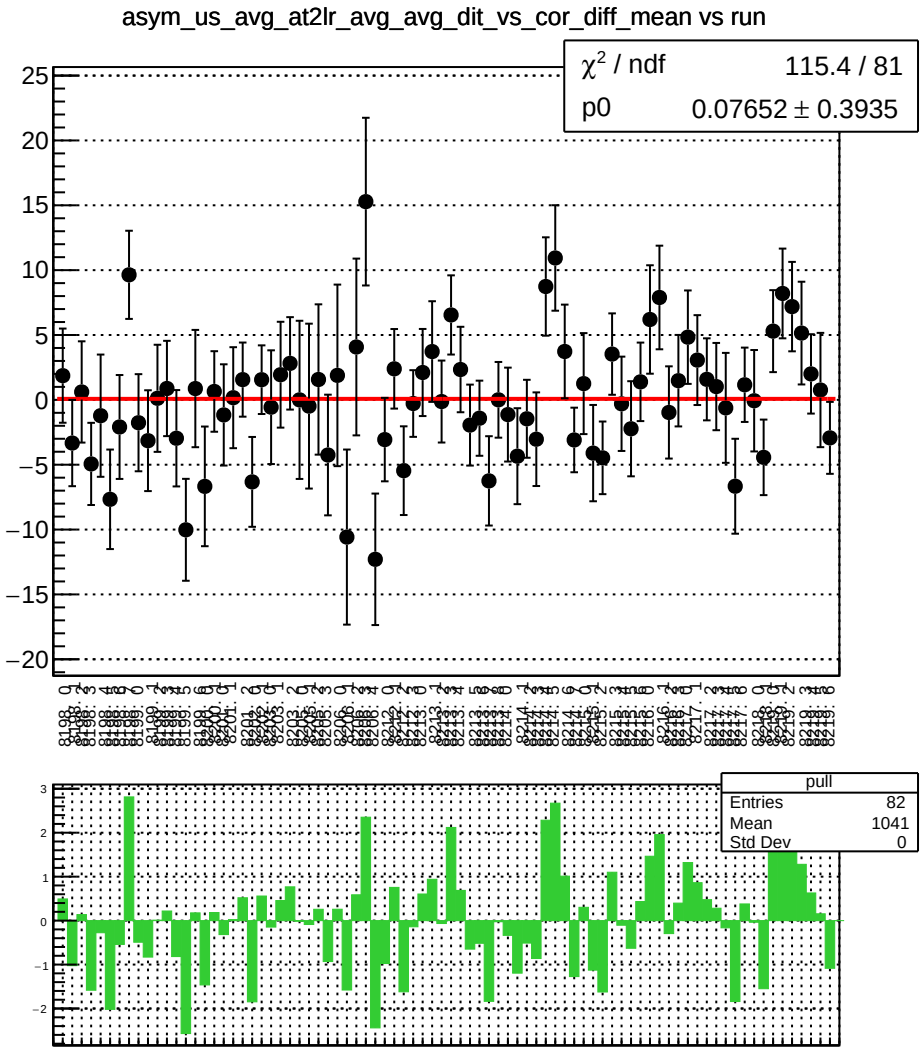

pull1D
Entries 82
Mean 0.01393
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

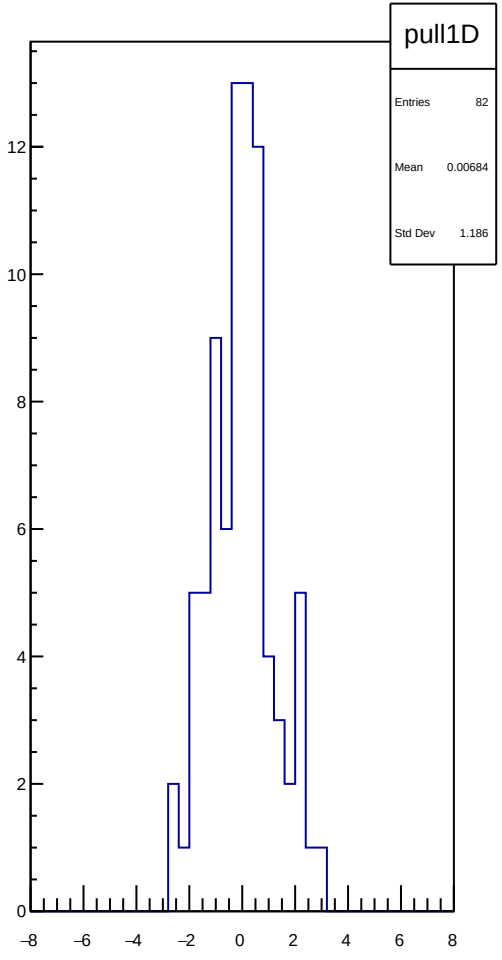

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 6856 / 81
p0 1.443e+04 ± 11.36
16500
16000
15500
15000
14500
14000
13500
13000
12500

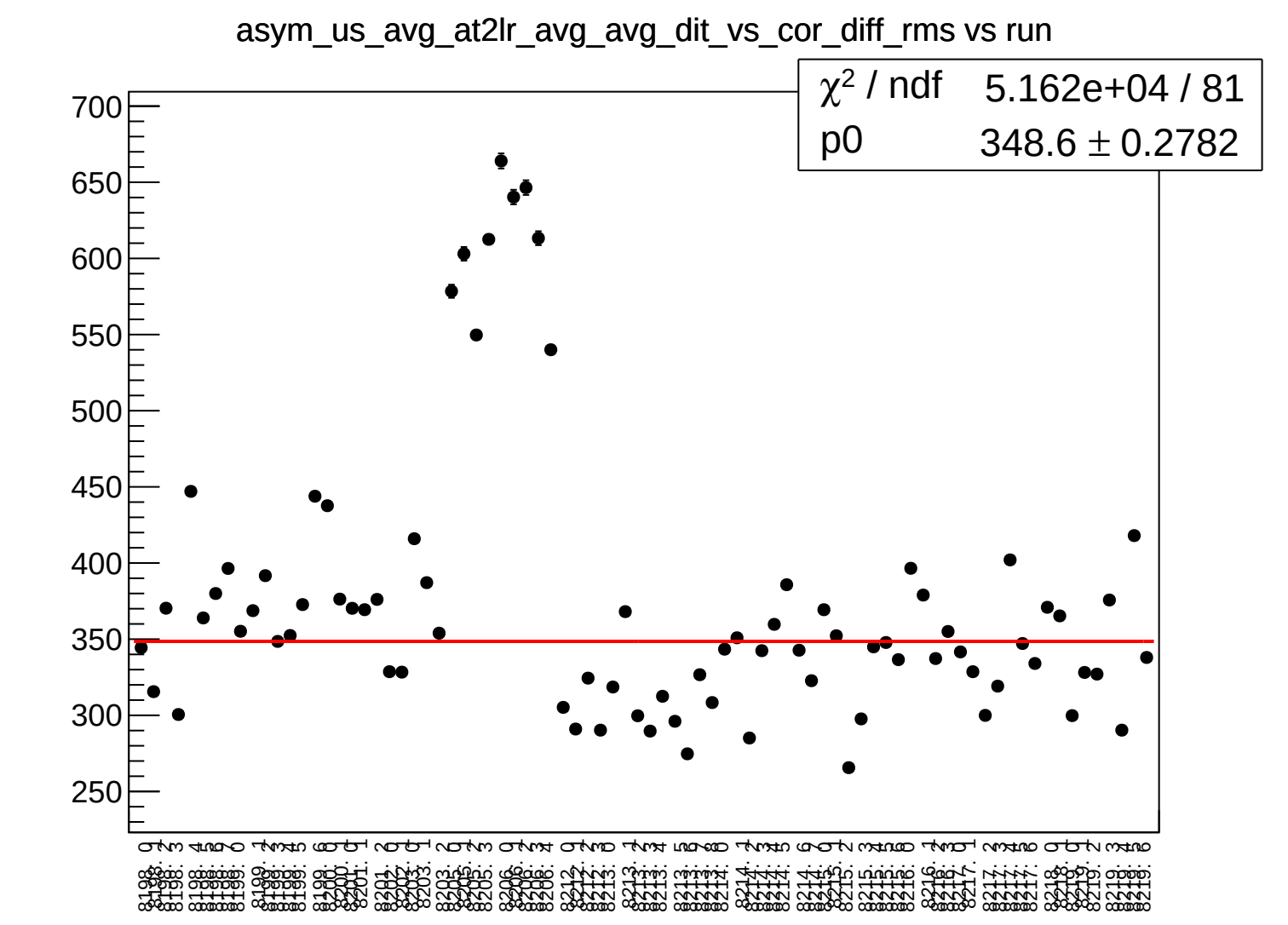

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.76 / 81
p0 3.639e−12 ± 2.104e−12
0.04
0.02
0
−0.02
−0.04
pull
Entries 82
Mean 6.729
Std Dev 0
3
2
1
0
−1
−2

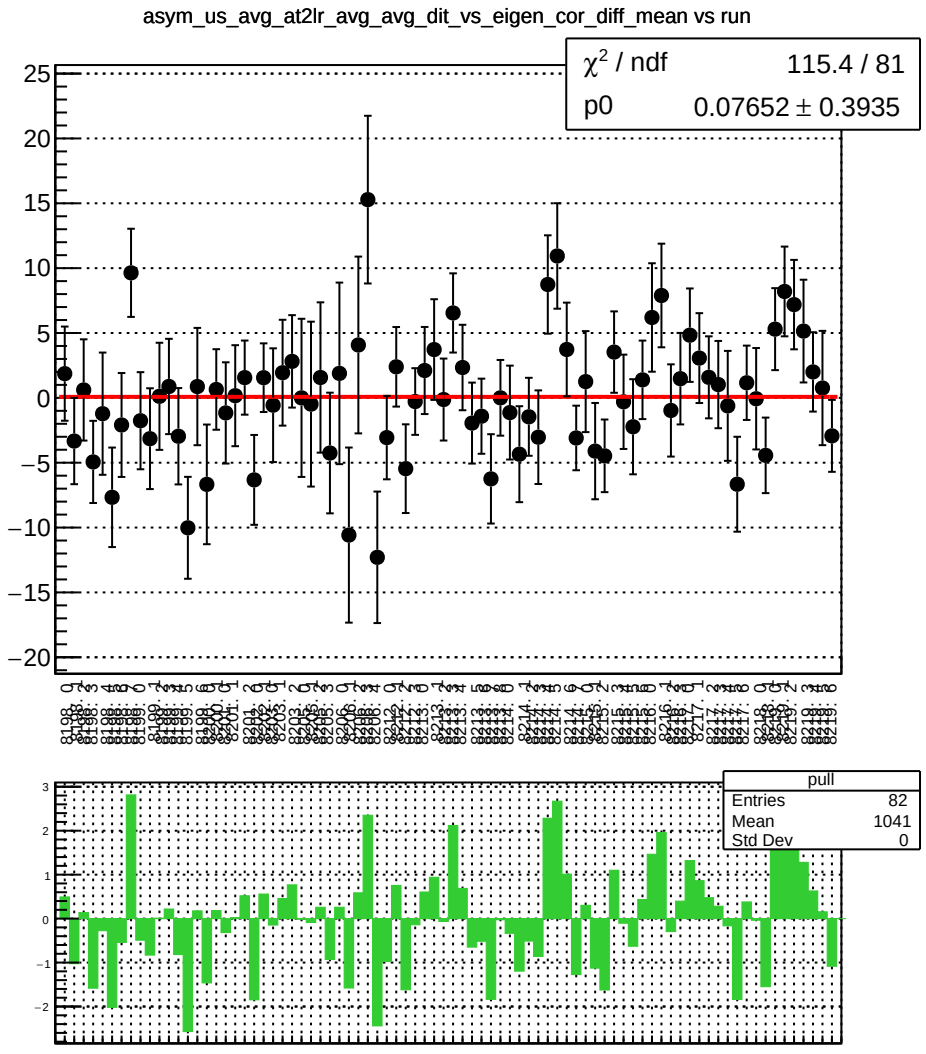

pull1D
Entries 82
Mean −0.06501
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

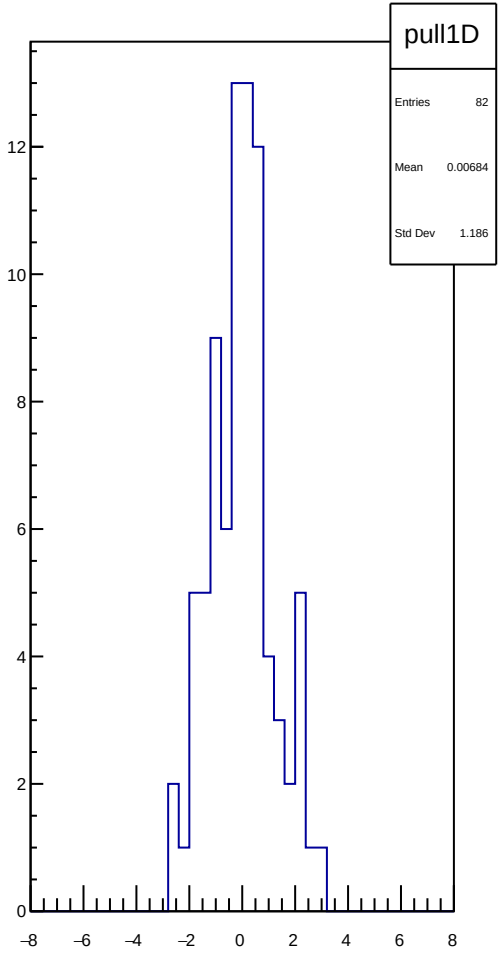

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.364e+05 / 81
p0 1.318e−09 ± 1.488e−12
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

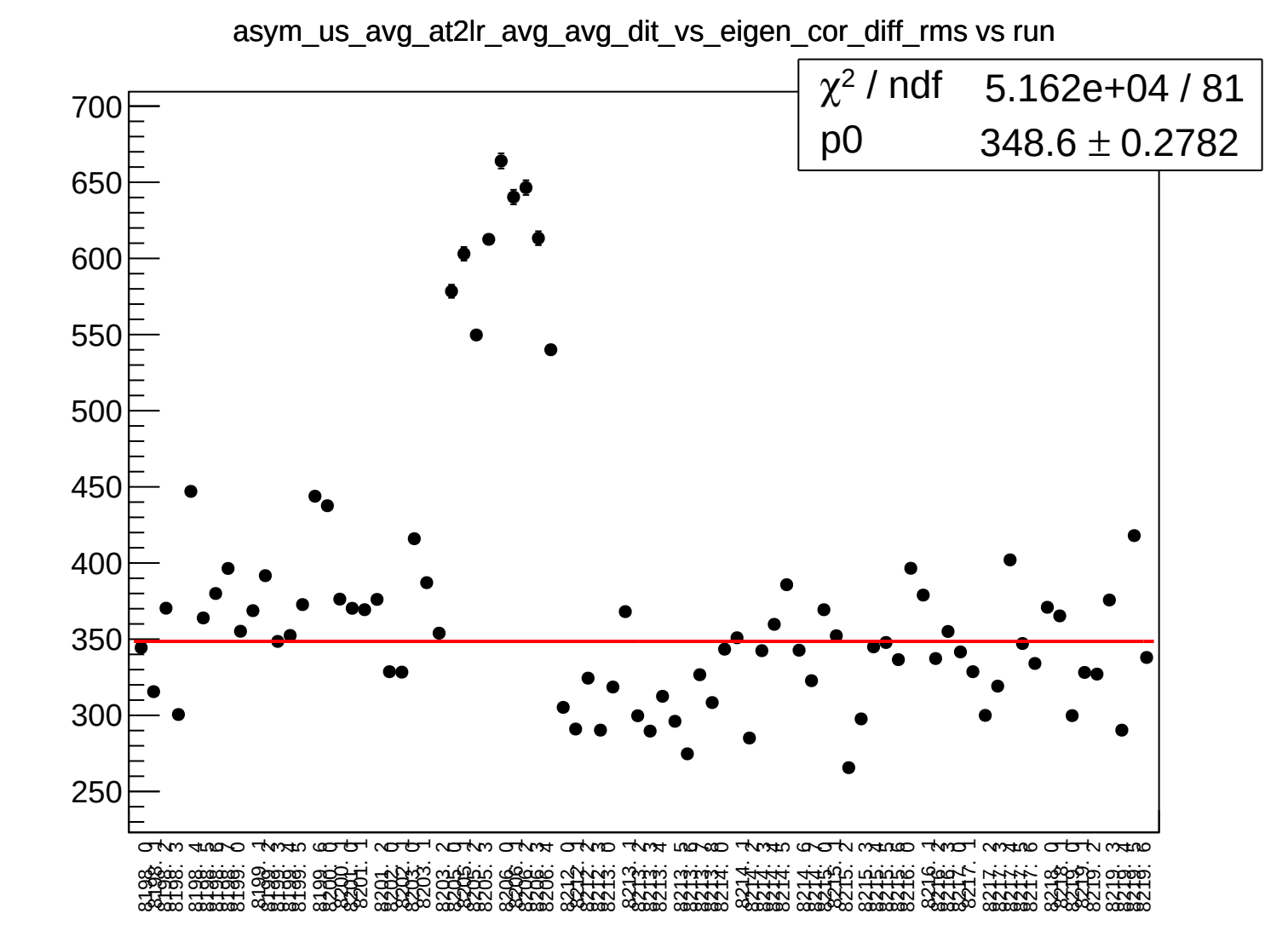

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 115.4 / 81
p0 0.07652 ± 0.3935
pull
Entries 82
Mean 1041
Std Dev 0

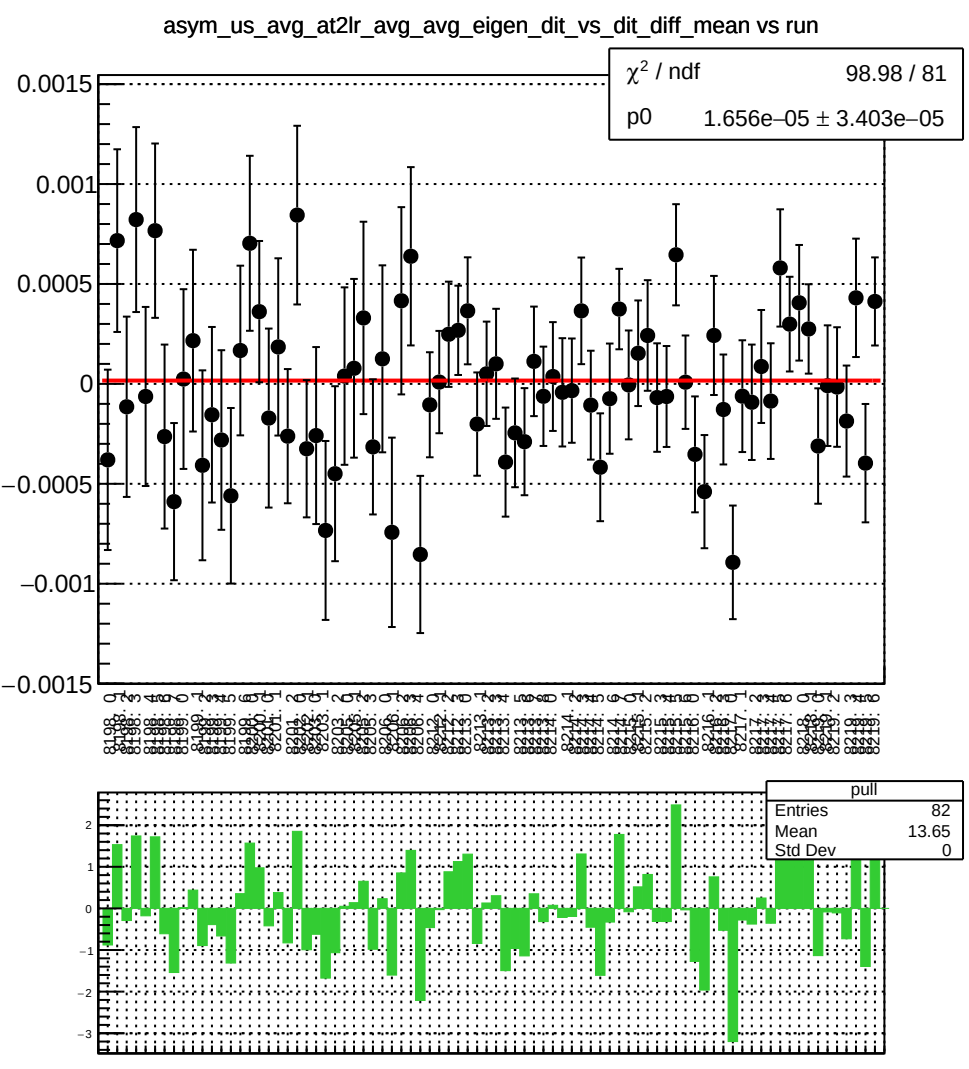

pull1D
Entries 82
Mean 0.00684
Std Dev 1.186

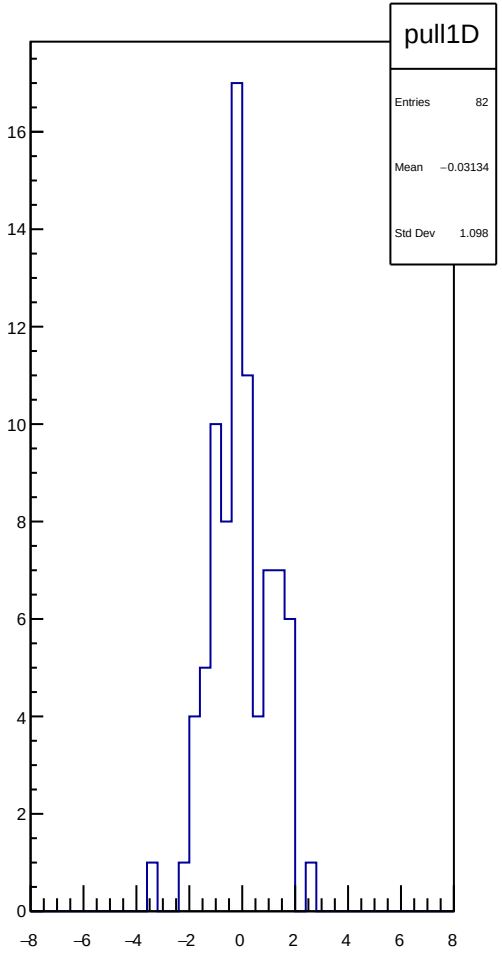

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.162e+04 / 81
p0 348.6 ± 0.2782
700
650
600
550
500
450
400
350
300
250

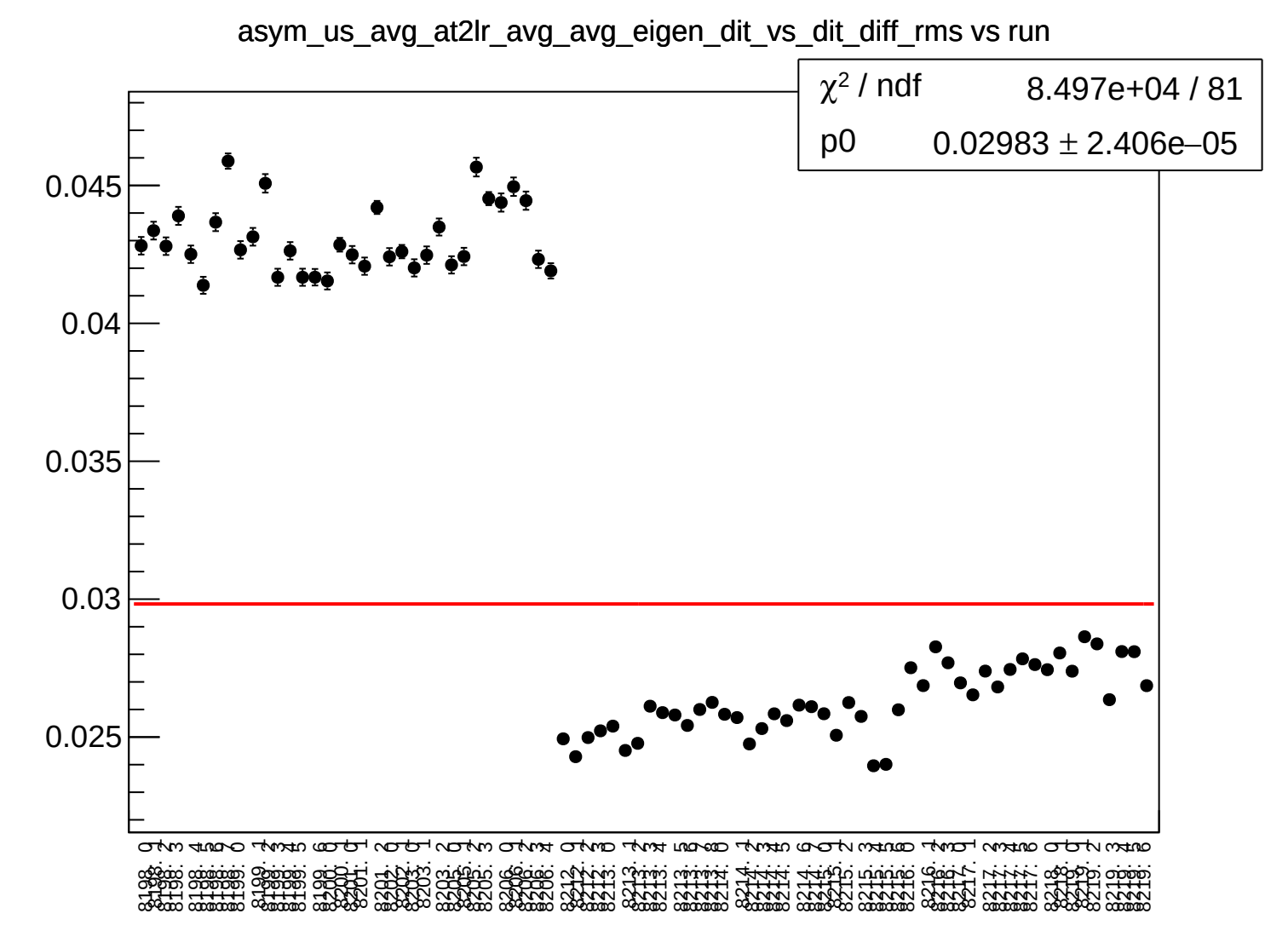

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.4 / 81
p0 0.07652 ± 0.3935
pull
Entries 82
Mean 1041
Std Dev 0

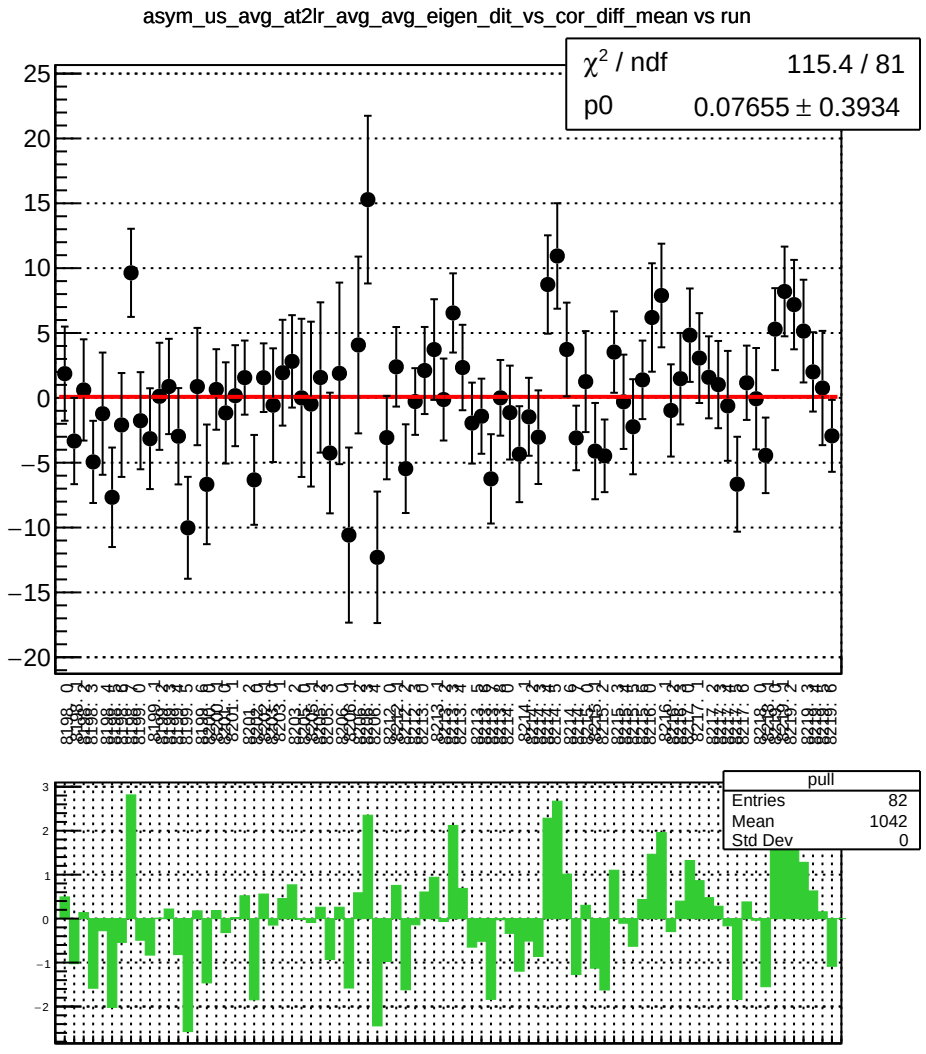

pull1D
Entries 82
Mean 0.00684
Std Dev 1.186

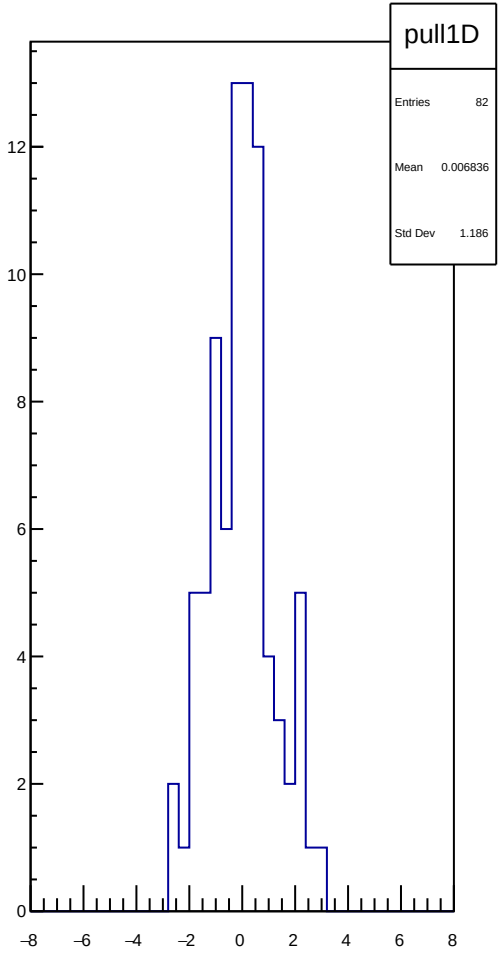

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.162e+04 / 81
p0 348.6 ± 0.2782
700
650
600
550
500
450
400
350
300
250

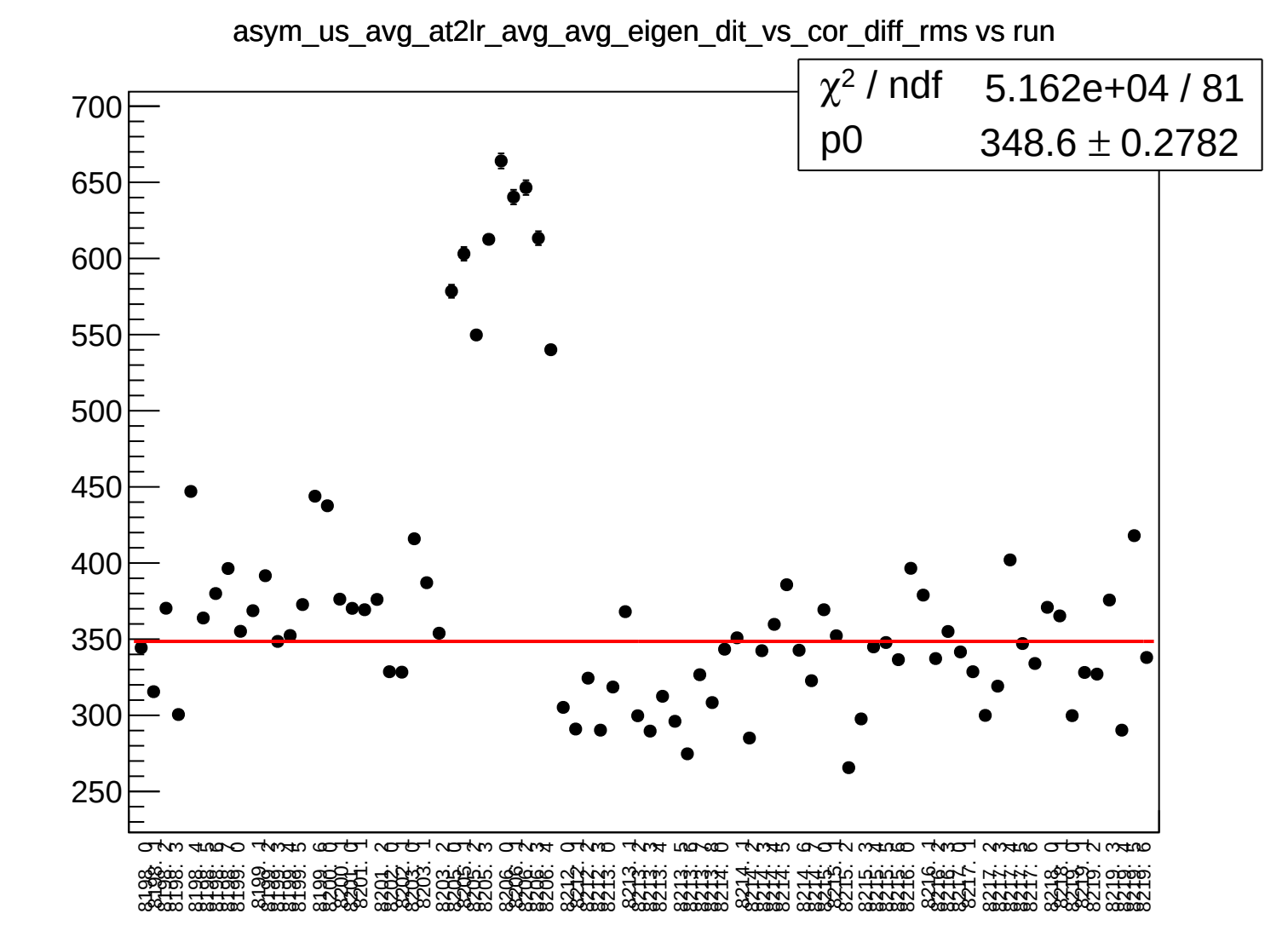

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 98.98 / 81
p0 1.656e−05 ± 3.403e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean 13.65
Std Dev 0
2
1
0
−1
−2
−3

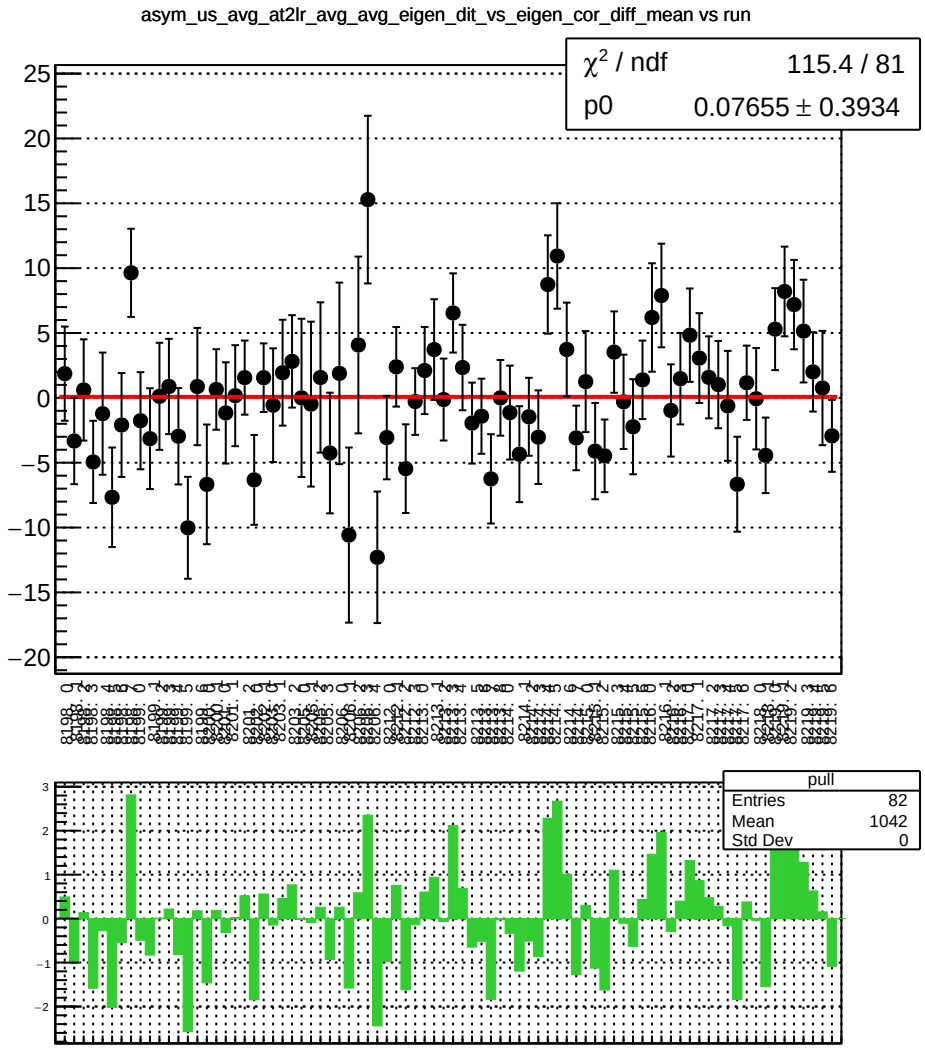

pull1D
Entries 82
Mean −0.03134
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

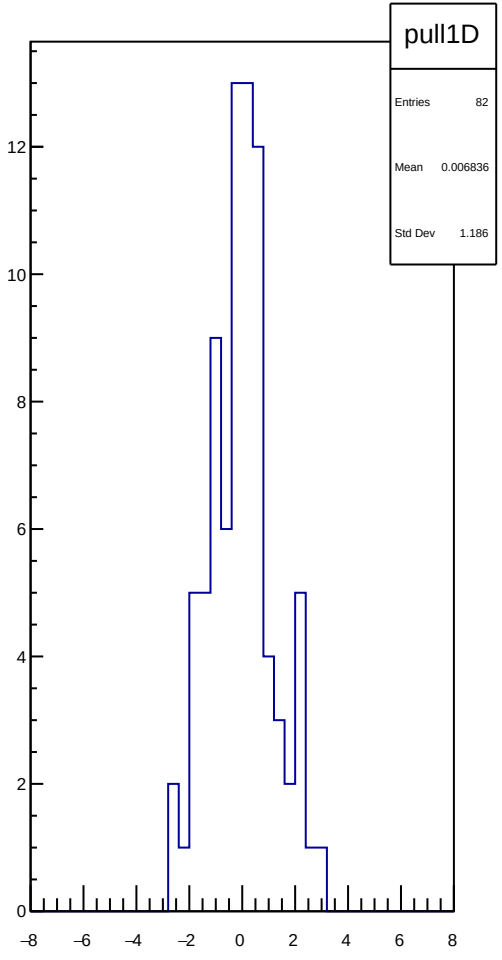

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.497e+04 / 81
p0 0.02983 ± 2.406e−05
0.045
0.04
0.035
0.03
0.025

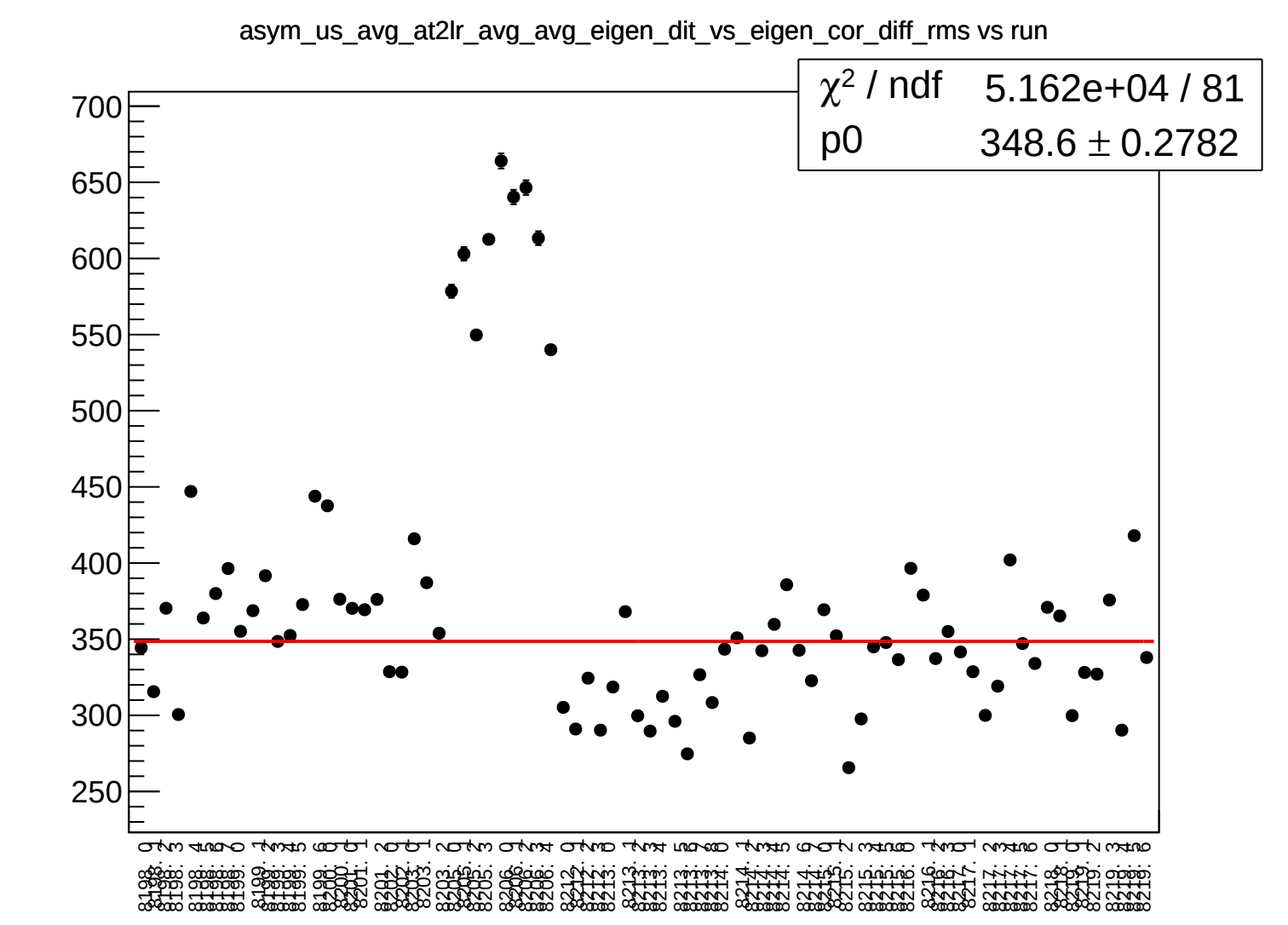

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.4 / 81
p0 0.07655 ± 0.3934
pull
Entries 82
Mean 1042
Std Dev 0

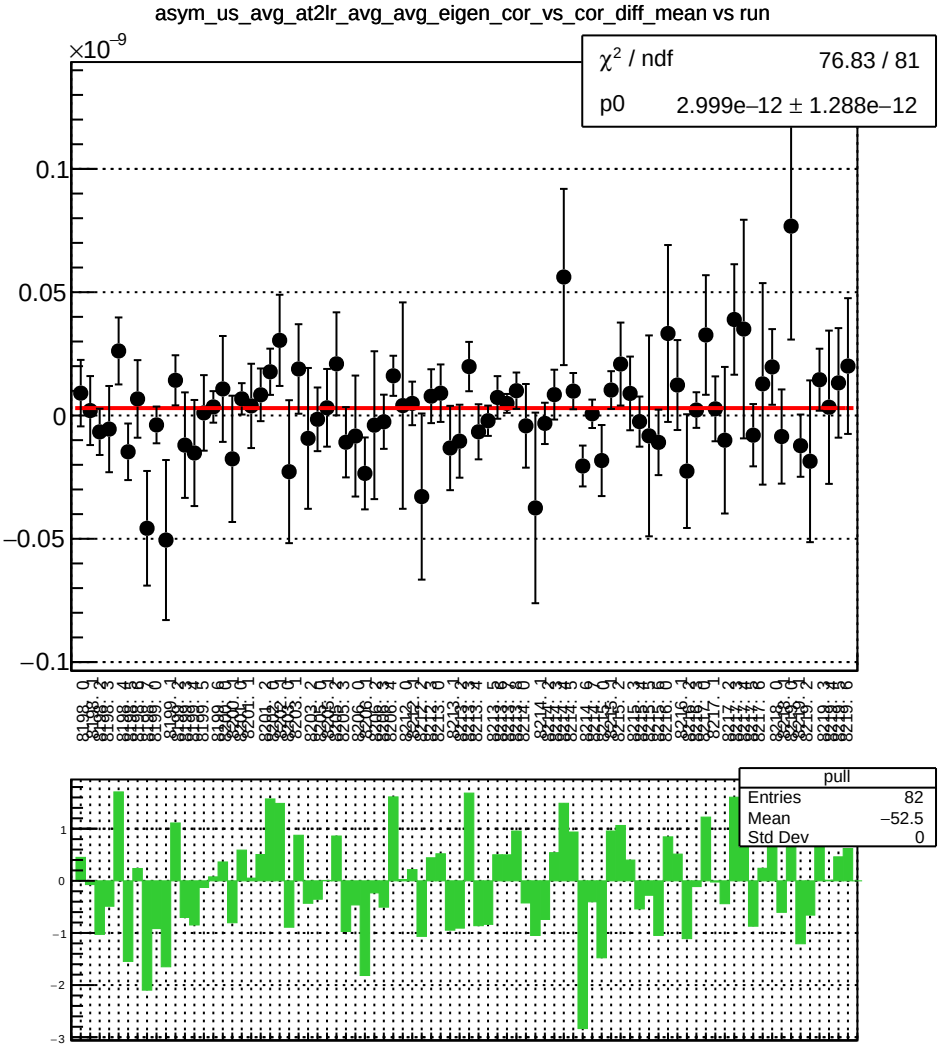

pull1D
Entries 82
Mean 0.006836
Std Dev 1.186

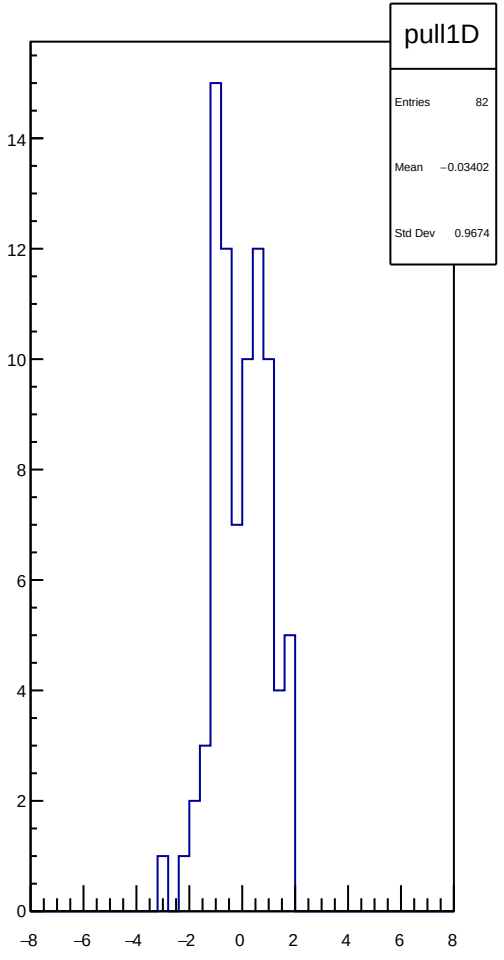

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.162e+04 / 81
p0 348.6 ± 0.2782
700
650
600
550
500
450
400
350
300
250

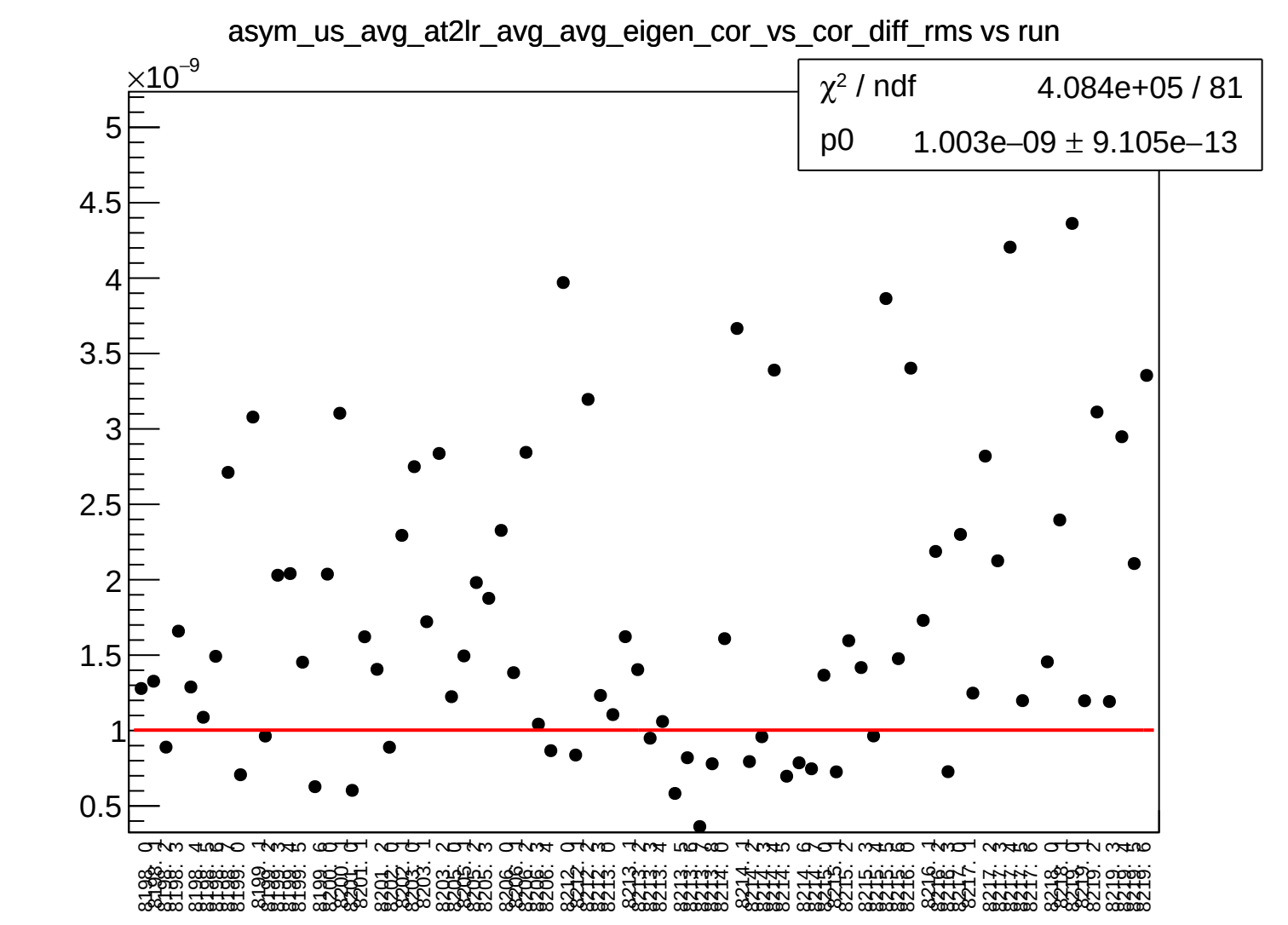

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.4 / 81
p0 0.07655 ± 0.3934
pull
Entries 82
Mean 1042
Std Dev 0

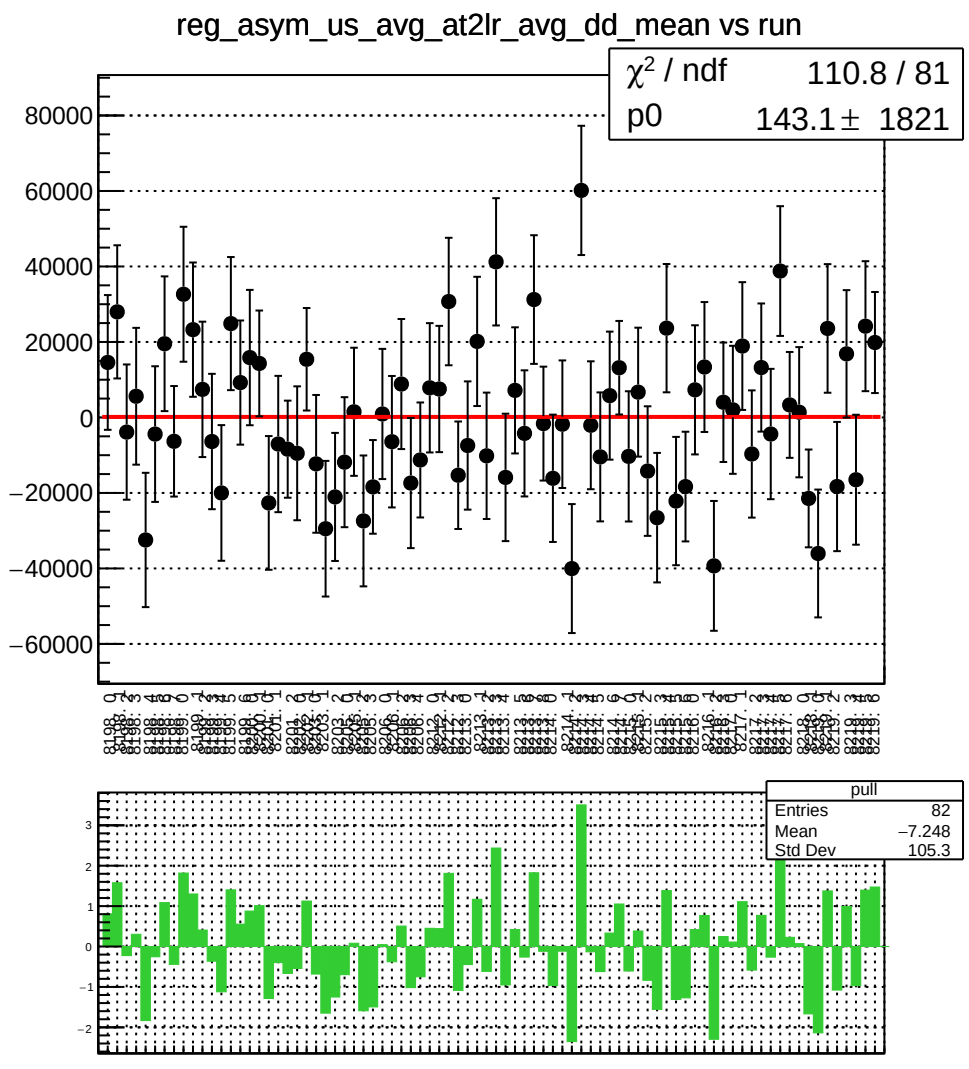

pull1D
Entries 82
Mean 0.006836
Std Dev 1.186

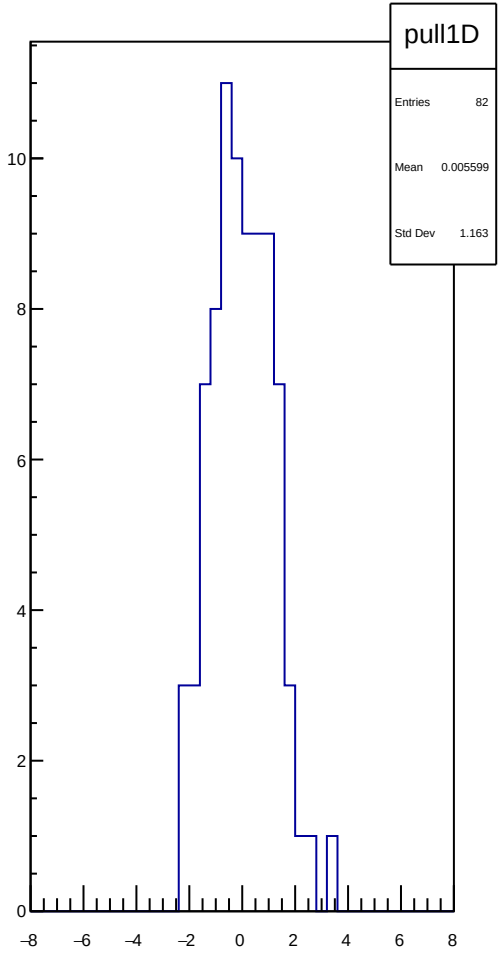

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.162e+04 / 81
p0 348.6 ± 0.2782
700
650
600
550
500
450
400
350
300
250

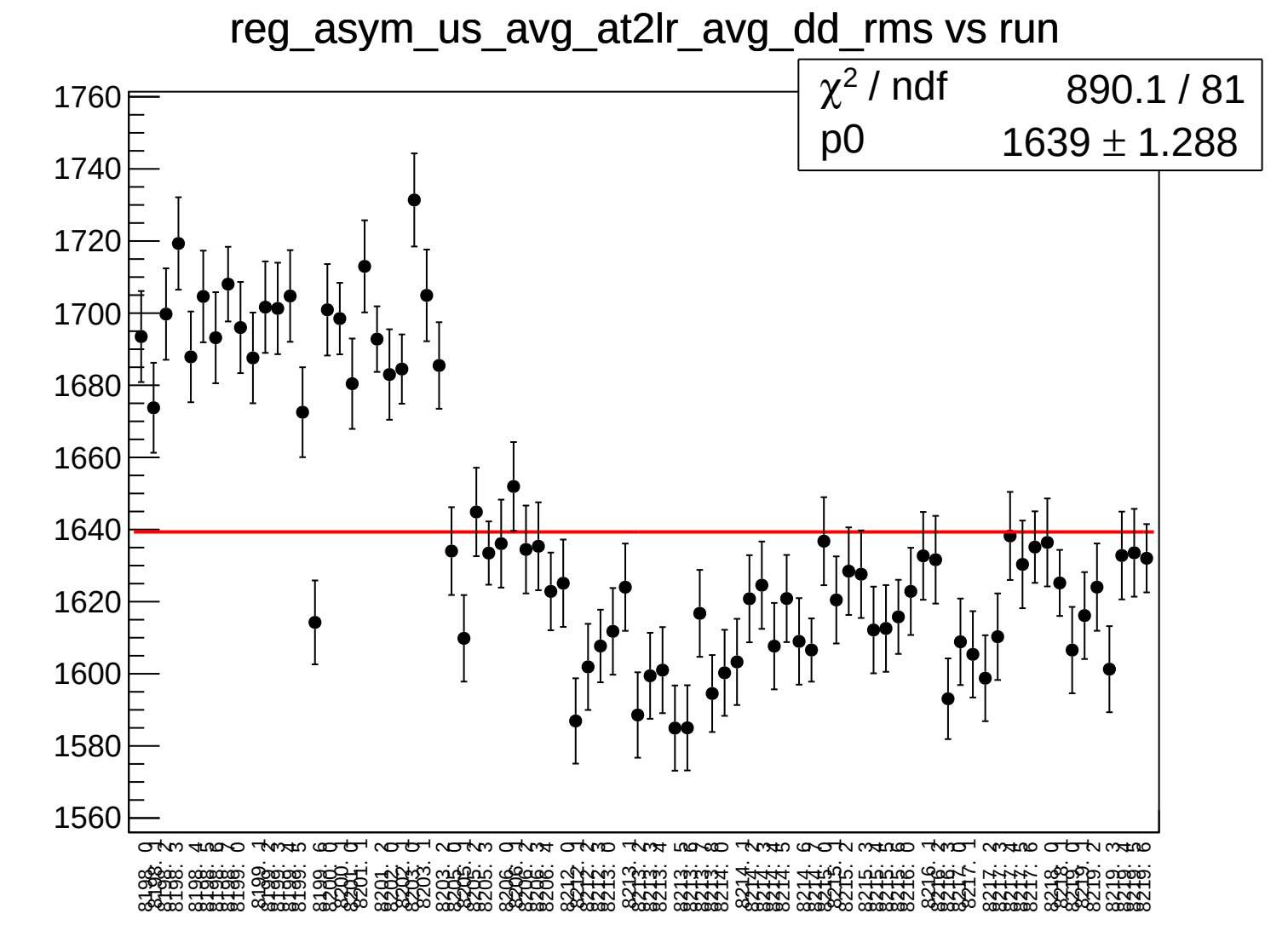

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 76.83 / 81
p0 2.999e−12 ± 1.288e−12
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean −52.5
Std Dev 0

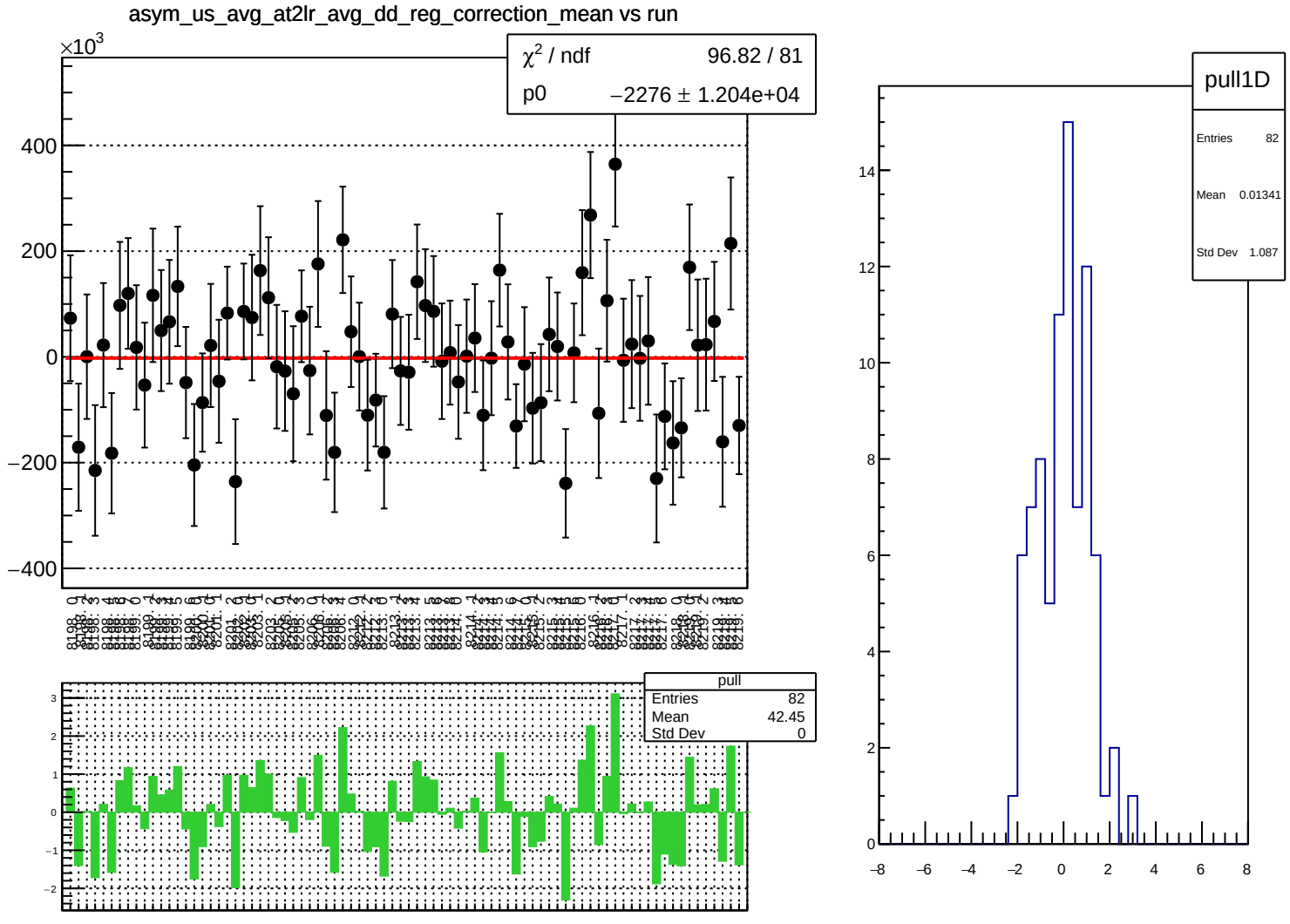

pull1D
Entries 82
Mean −0.03402
Std Dev 0.9674

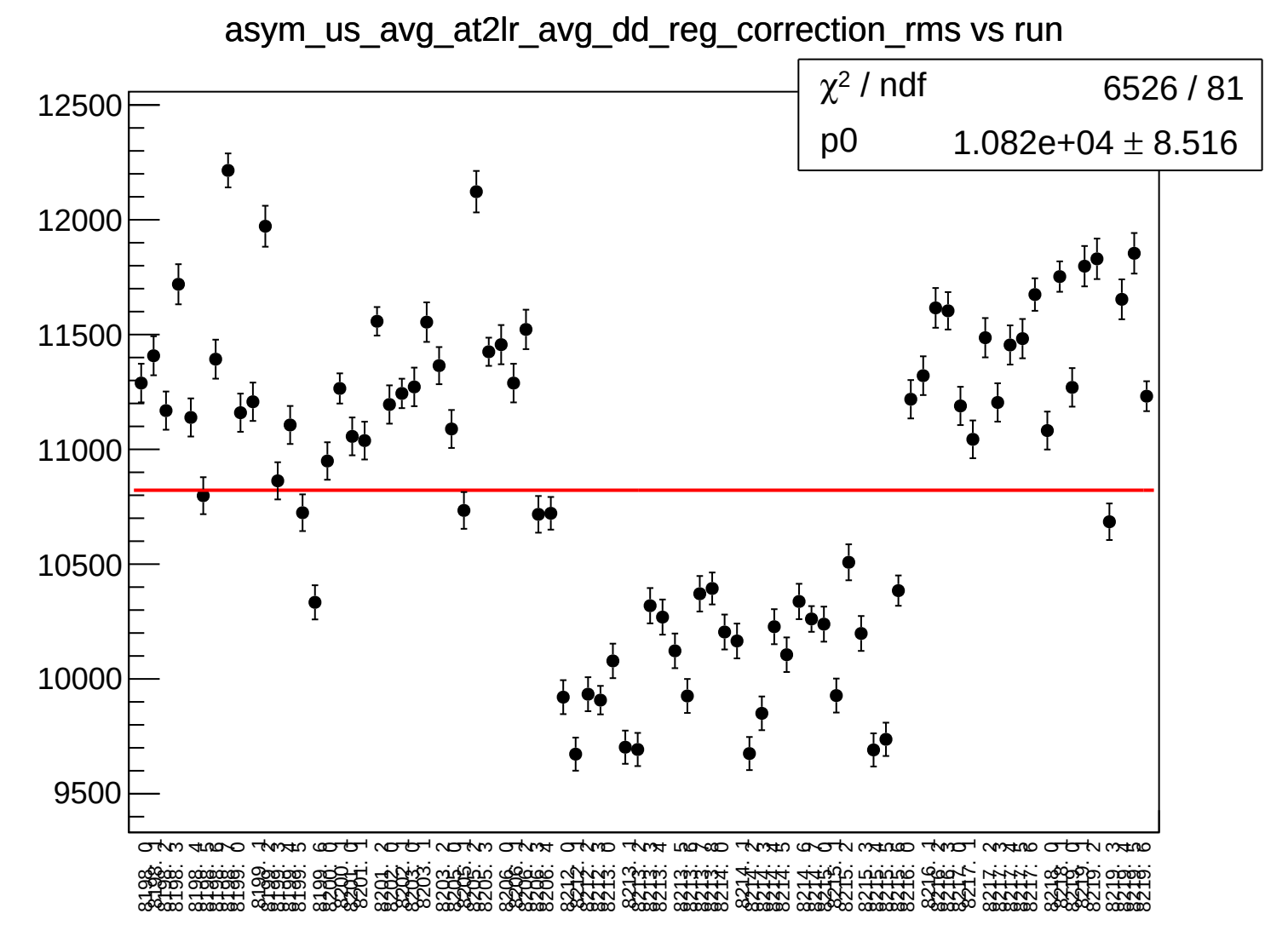

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.084e+05 / 81
p0 1.003e−09 ± 9.105e−13
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

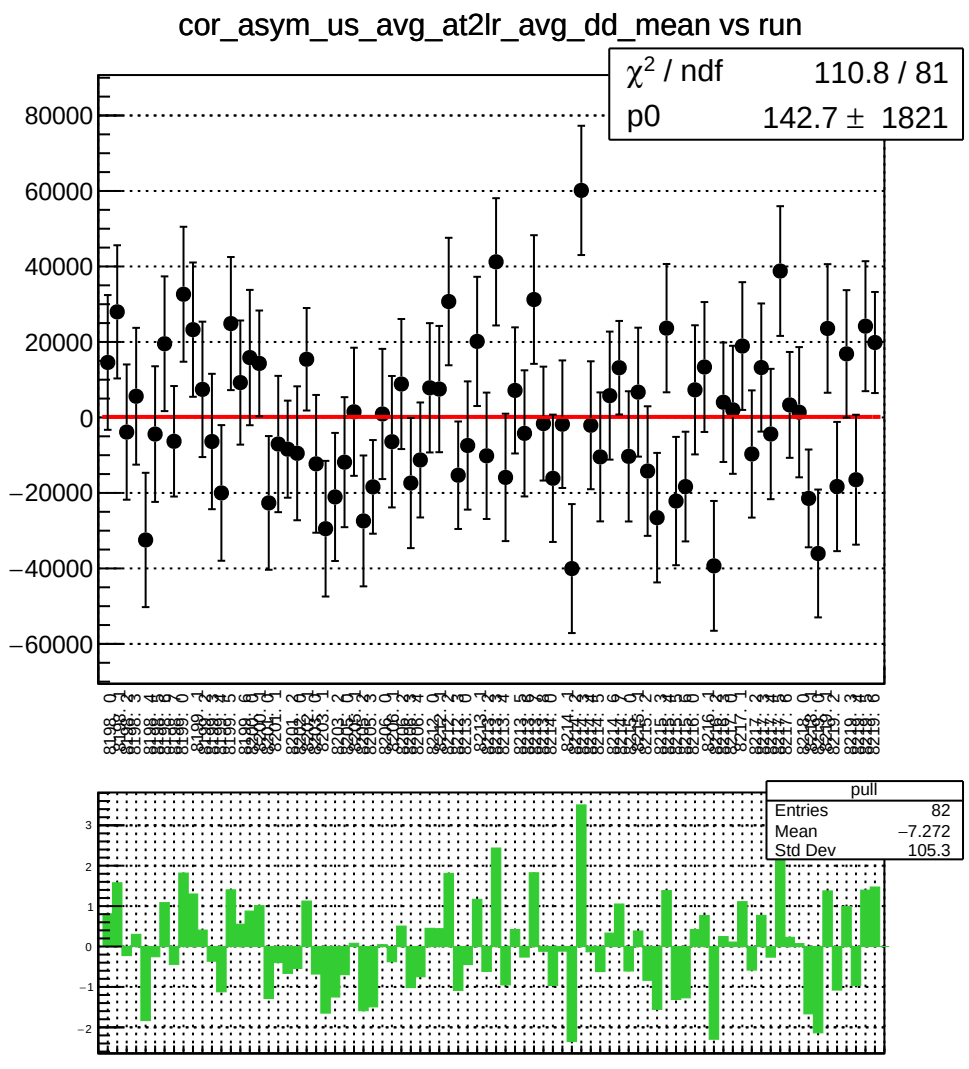

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 110.8 / 81
p0 143.1 ± 1821
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −7.248
Std Dev 105.3
3
2
1
0
−1
−2

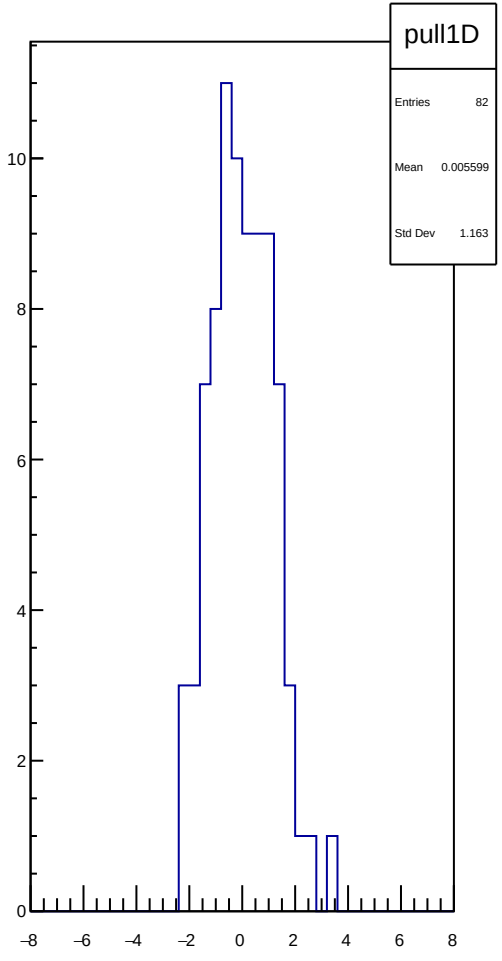

pull1D
Entries 82
Mean 0.005599
Std Dev 1.163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

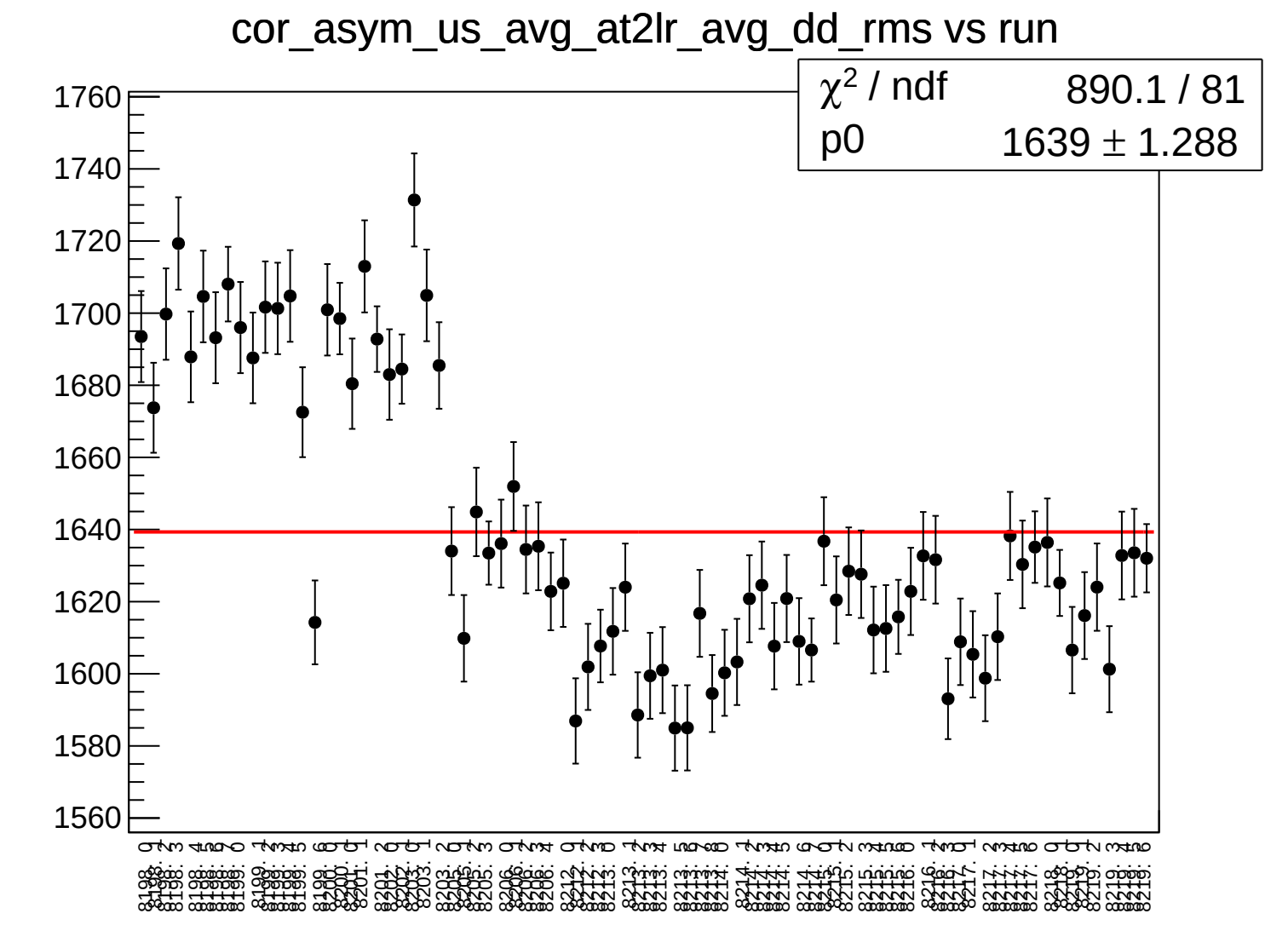

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 890.1 / 81
p0 1639 ± 1.288
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

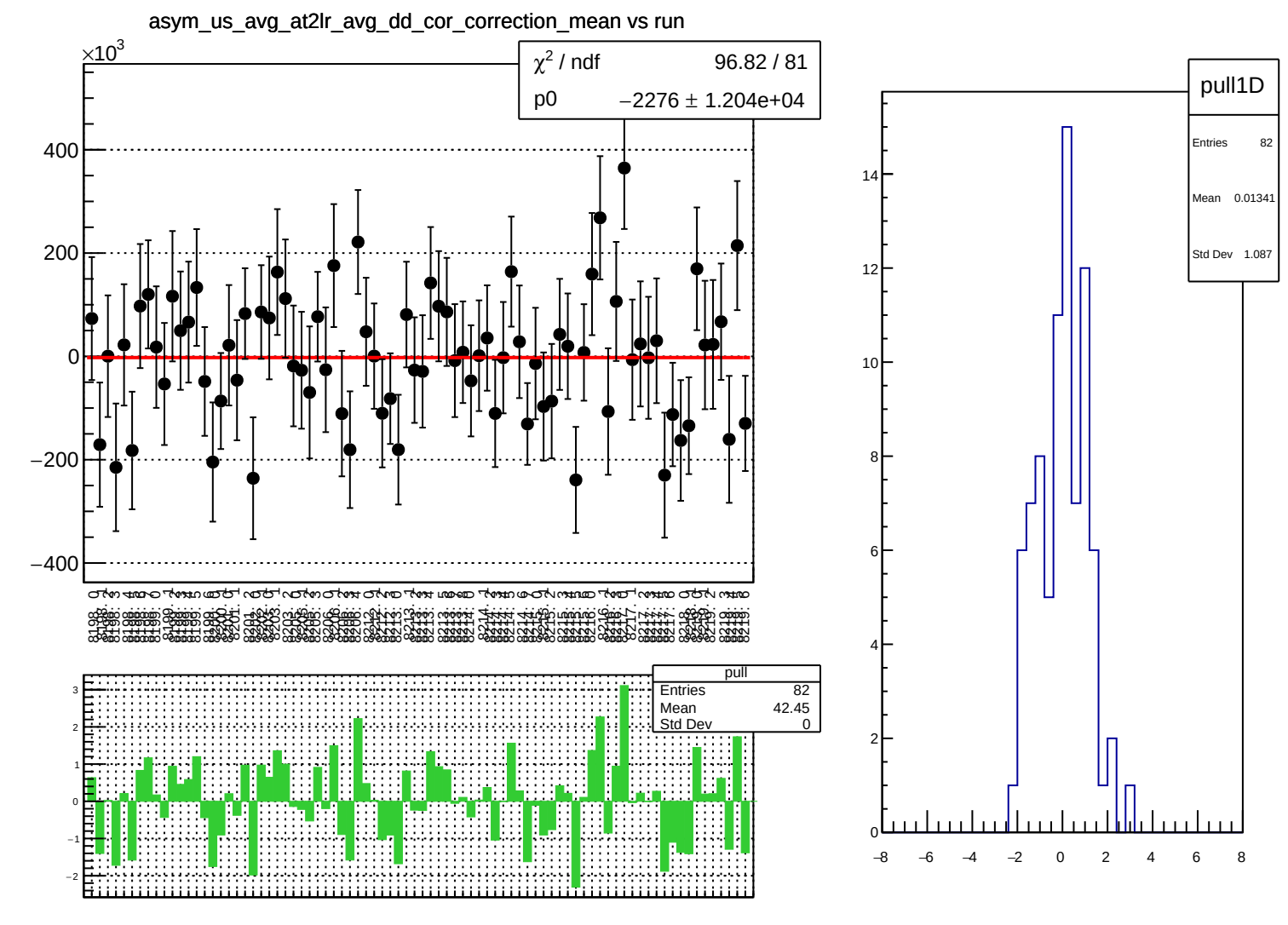

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.82 / 81
p0 −2276 ± 1.204e+04
400
200
0
−200
−400
pull
Entries 82
Mean 42.45
Std Dev 0
pull1D
Entries 82
Mean 0.01341
Std Dev 1.087

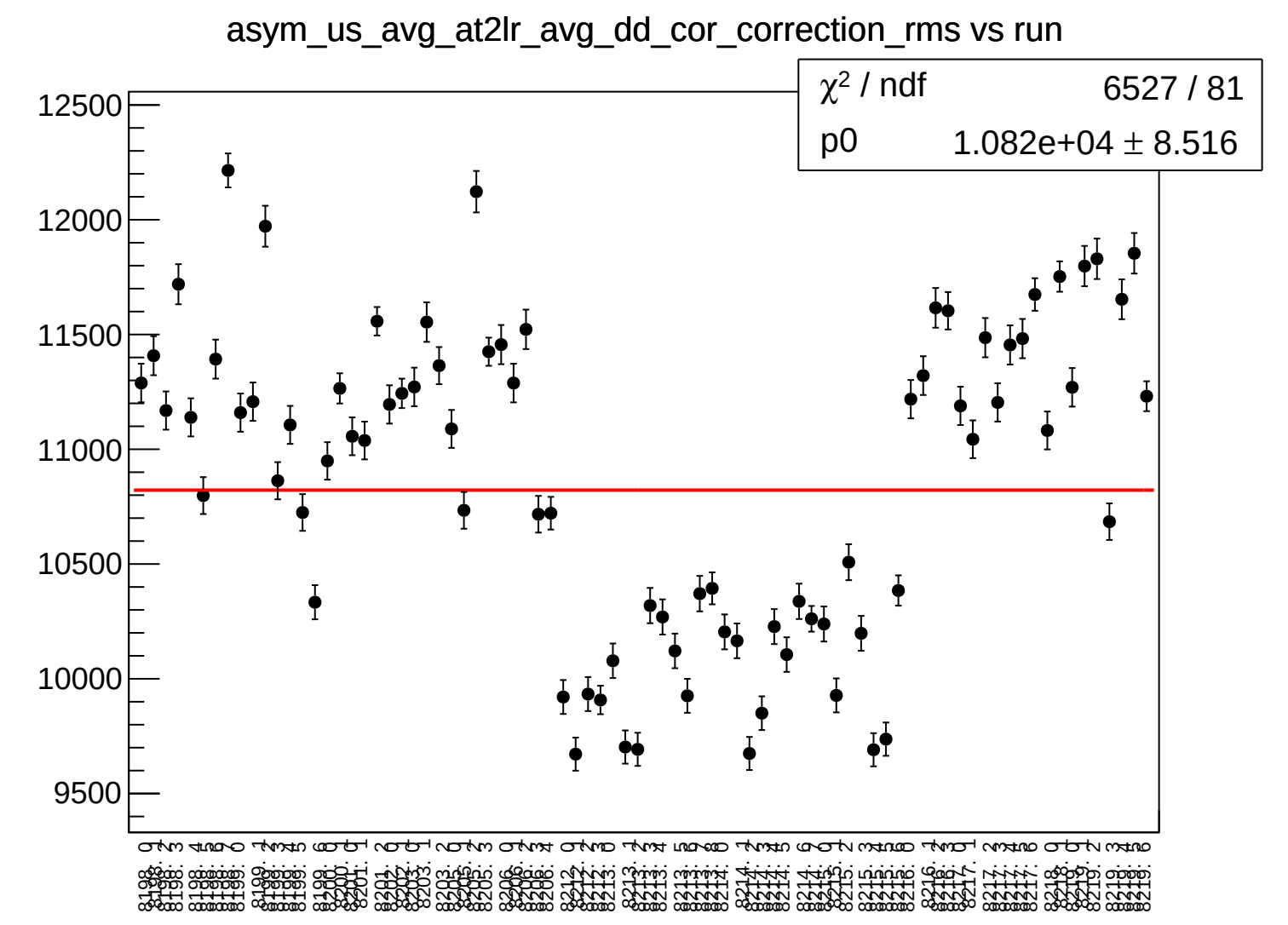

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 6526 / 81
p0 1.082e+04 ± 8.516
12500
12000
11500
11000
10500
10000
9500

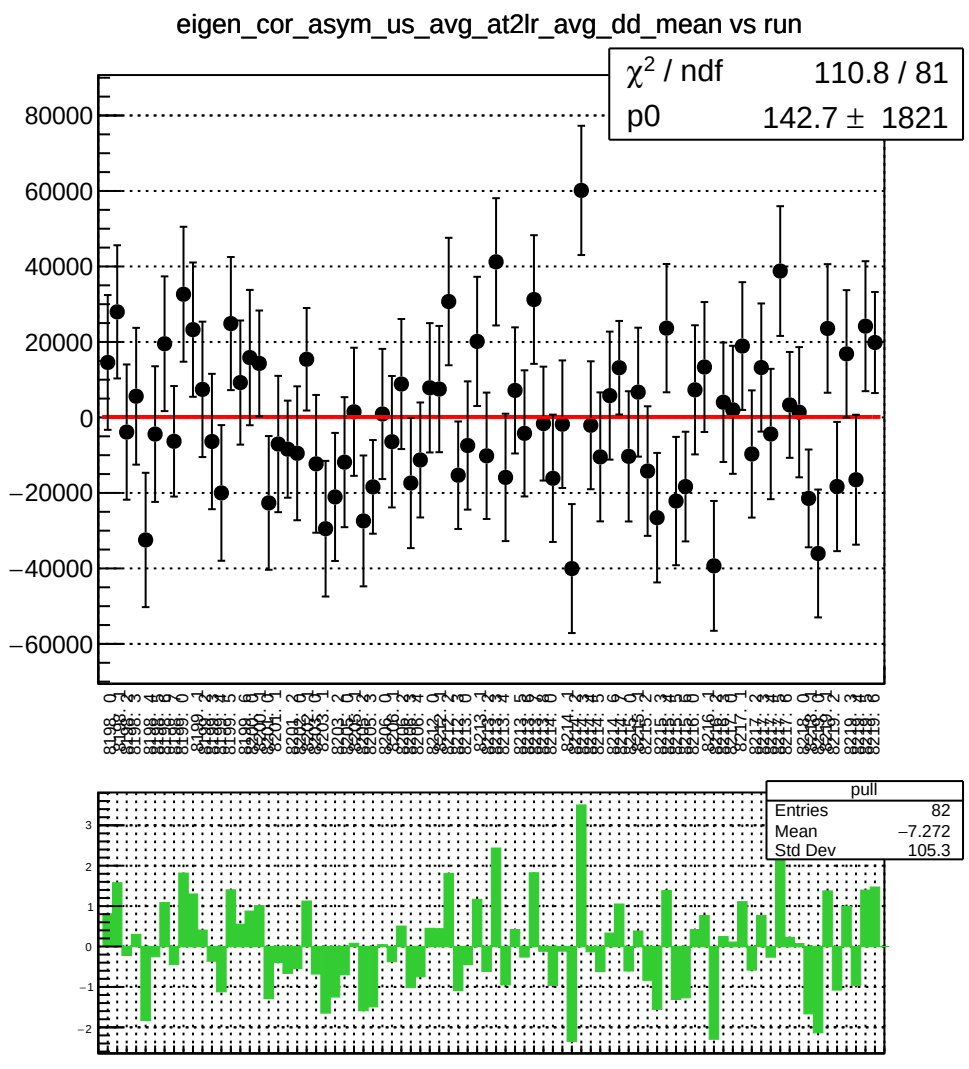

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 110.8 / 81
p0 142.7 ± 1821
pull
Entries 82
Mean −7.272
Std Dev 105.3

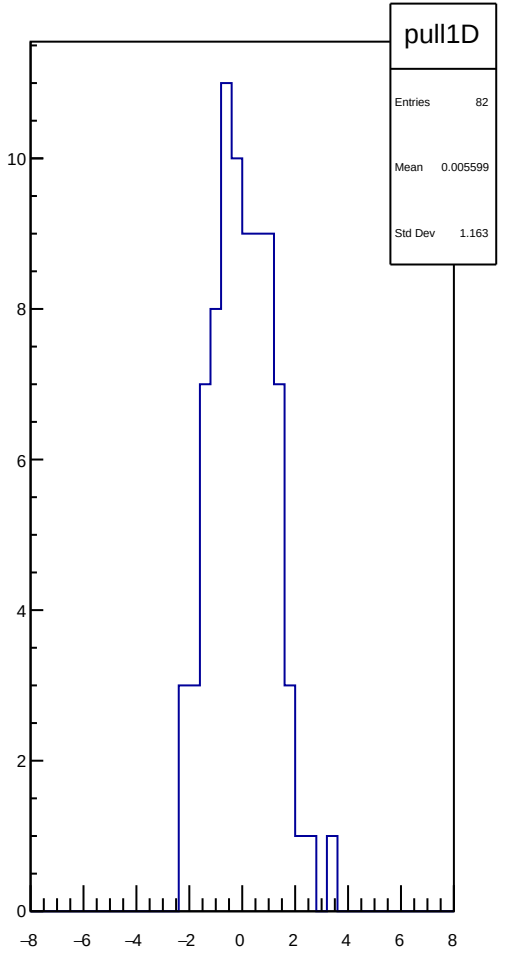

pull1D
Entries 82
Mean 0.005599
Std Dev 1.163

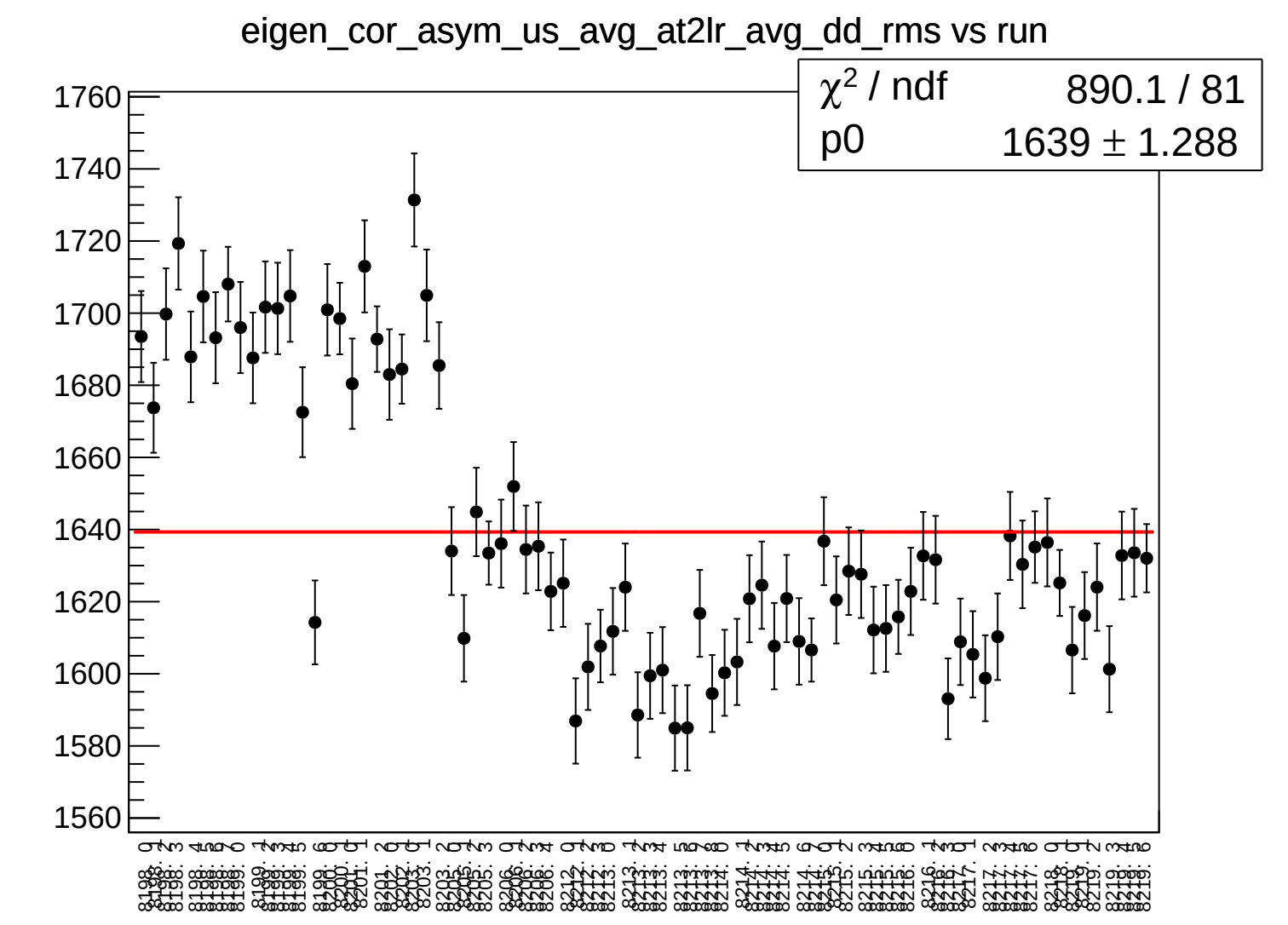

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 890.1 / 81
p0 1639 ± 1.288
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

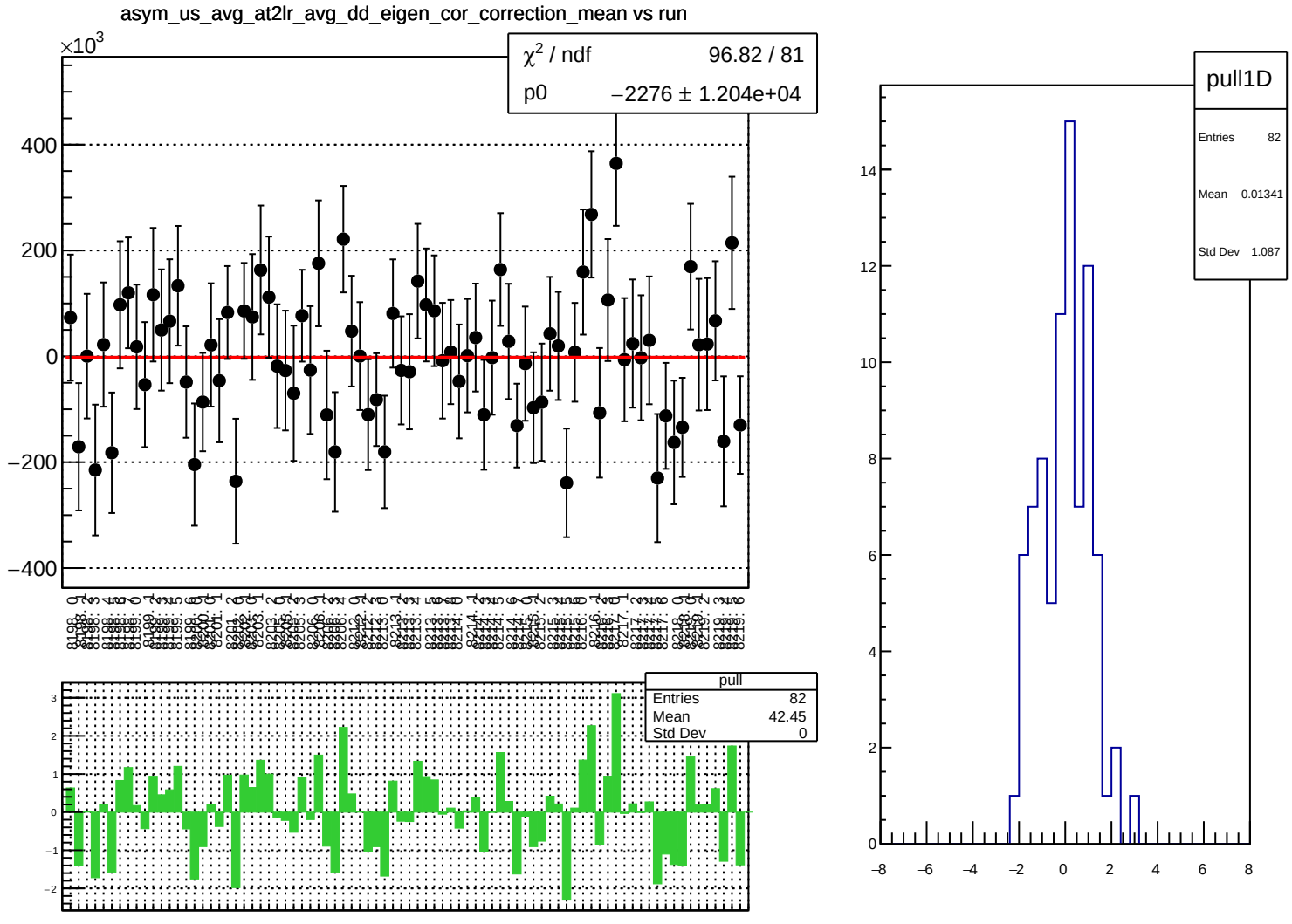

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.82 / 81
p0 −2276 ± 1.204e+04
400
200
0
−200
−400
pull
Entries 82
Mean 42.45
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01341
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

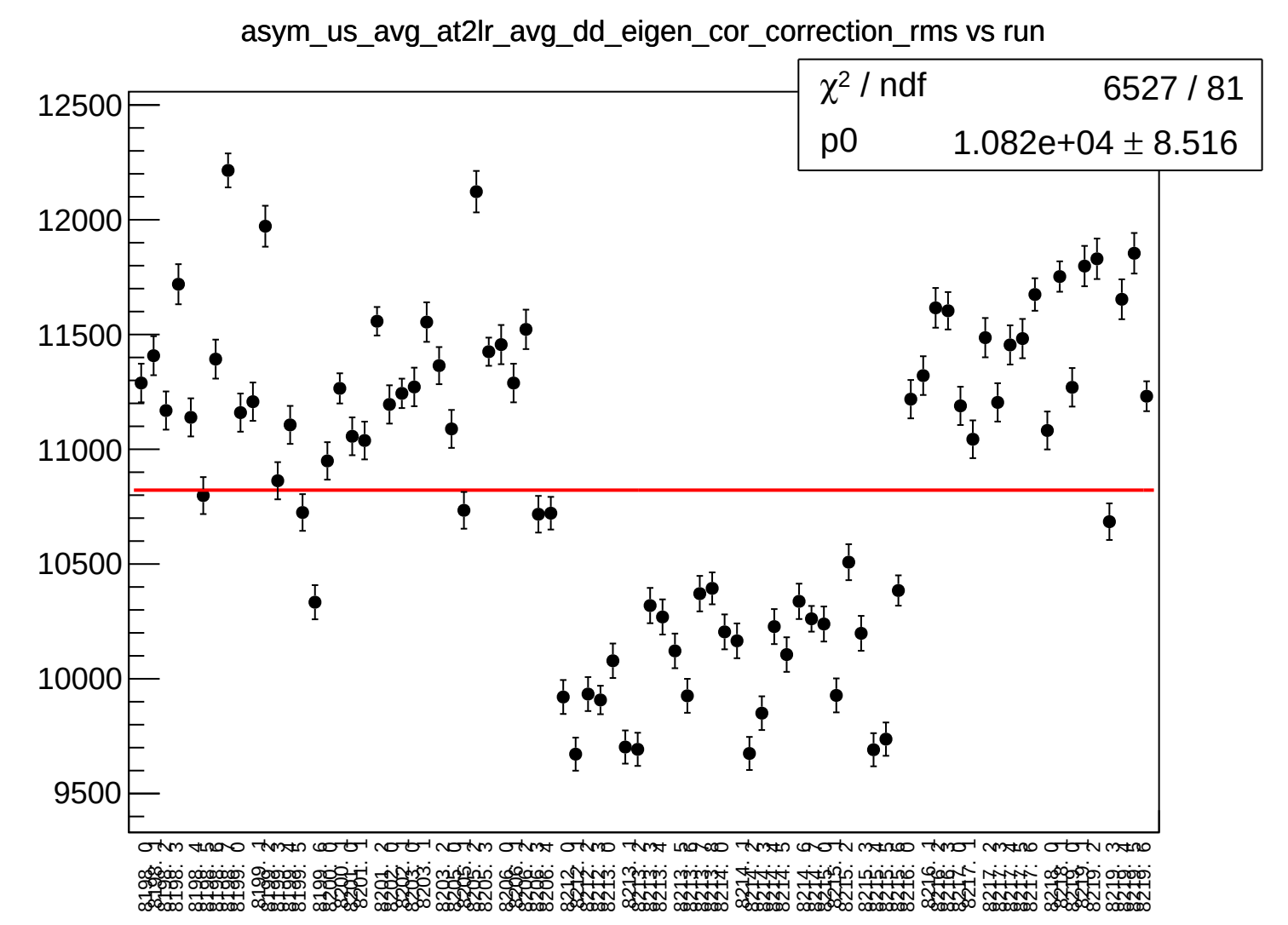

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 6527 / 81
p0 1.082e+04 ± 8.516
12500
12000
11500
11000
10500
10000
9500

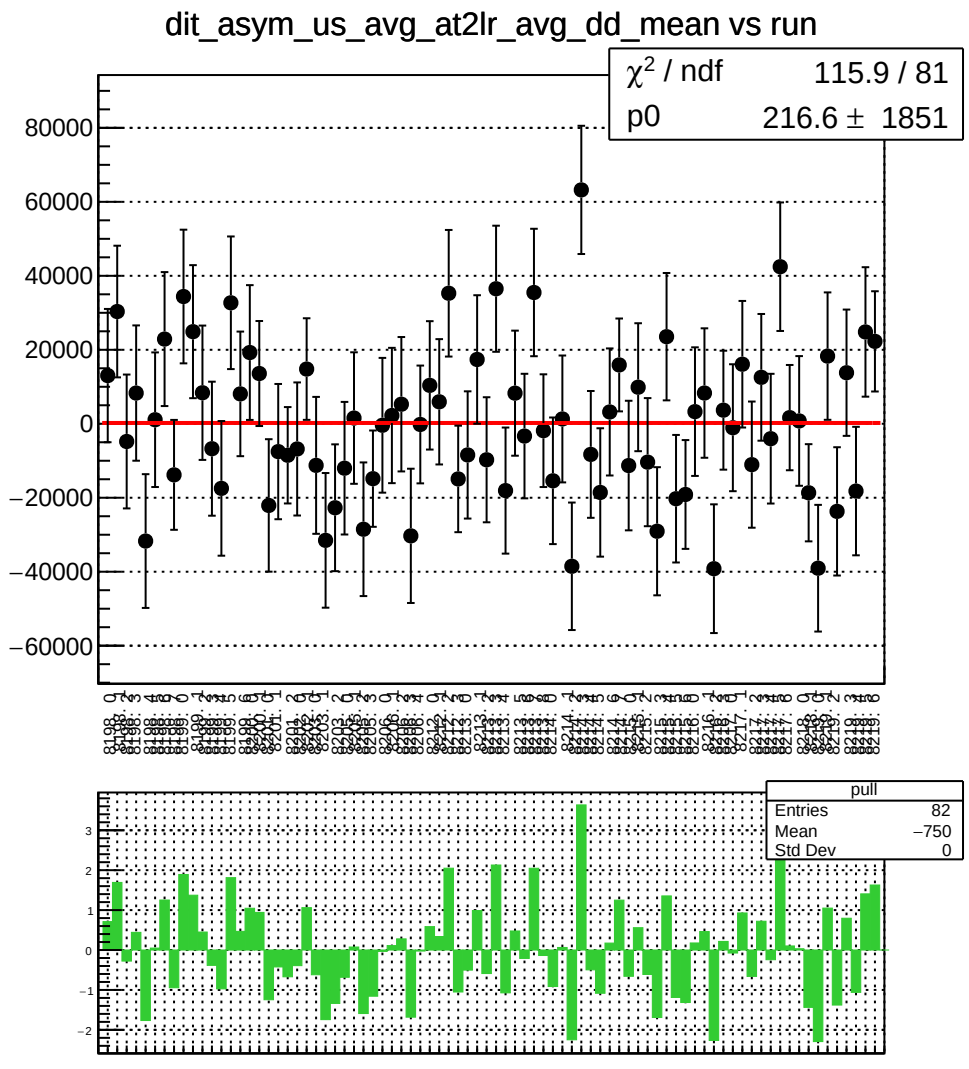

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 110.8 / 81
p0 142.7 ± 1821
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −7.272
Std Dev 105.3
3
2
1
0
−1
−2

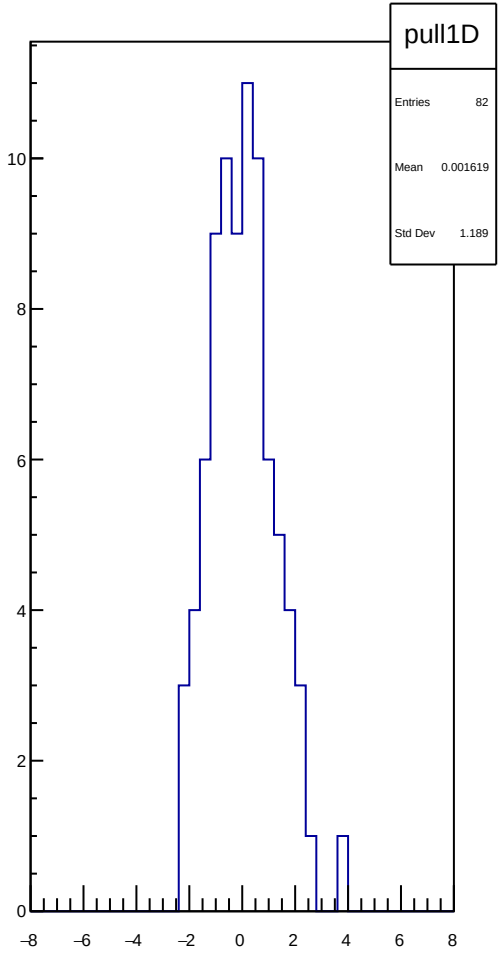

pull1D
Entries 82
Mean 0.005599
Std Dev 1.163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

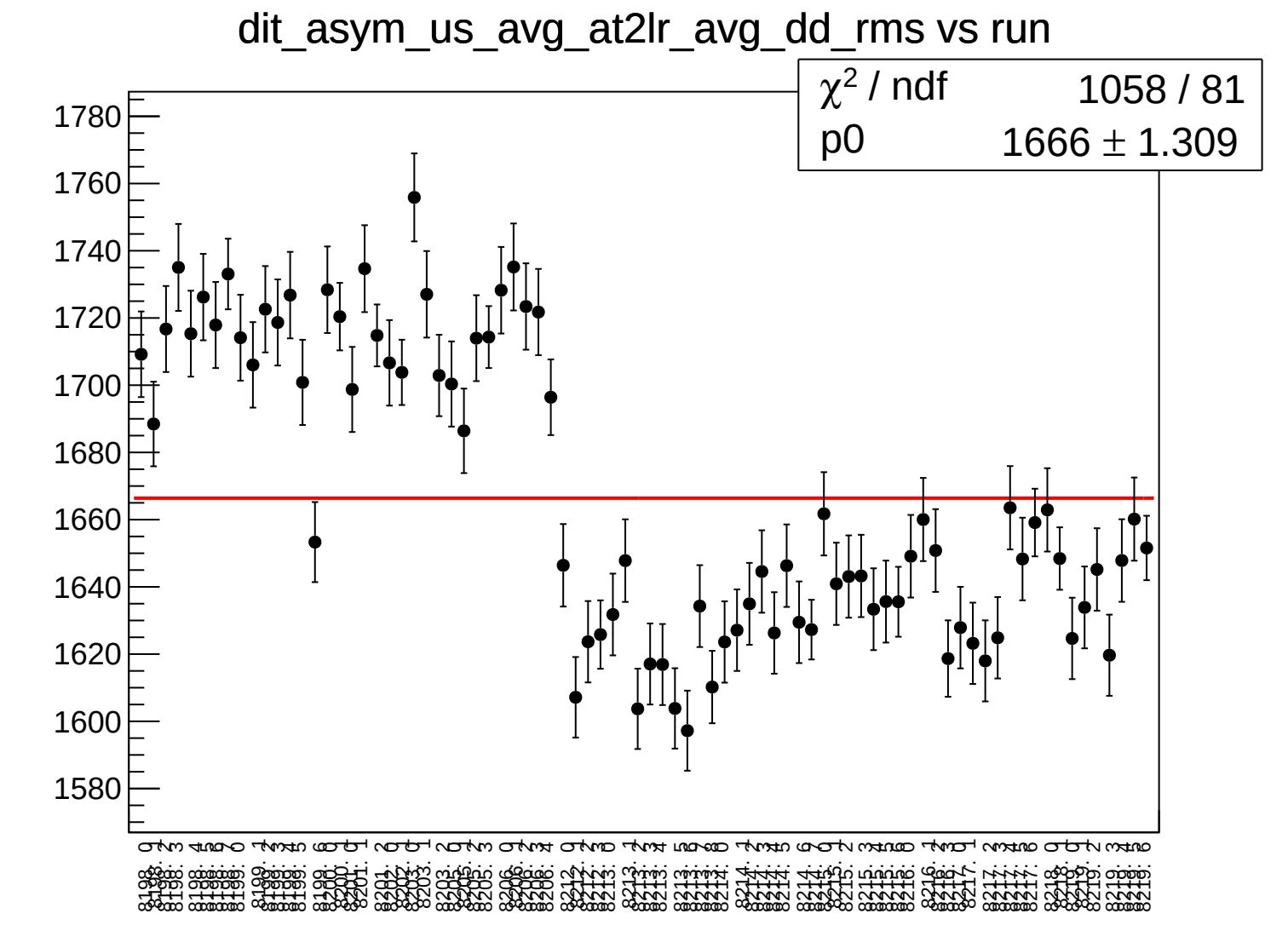

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 890.1 / 81
p0 1639 ± 1.288
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

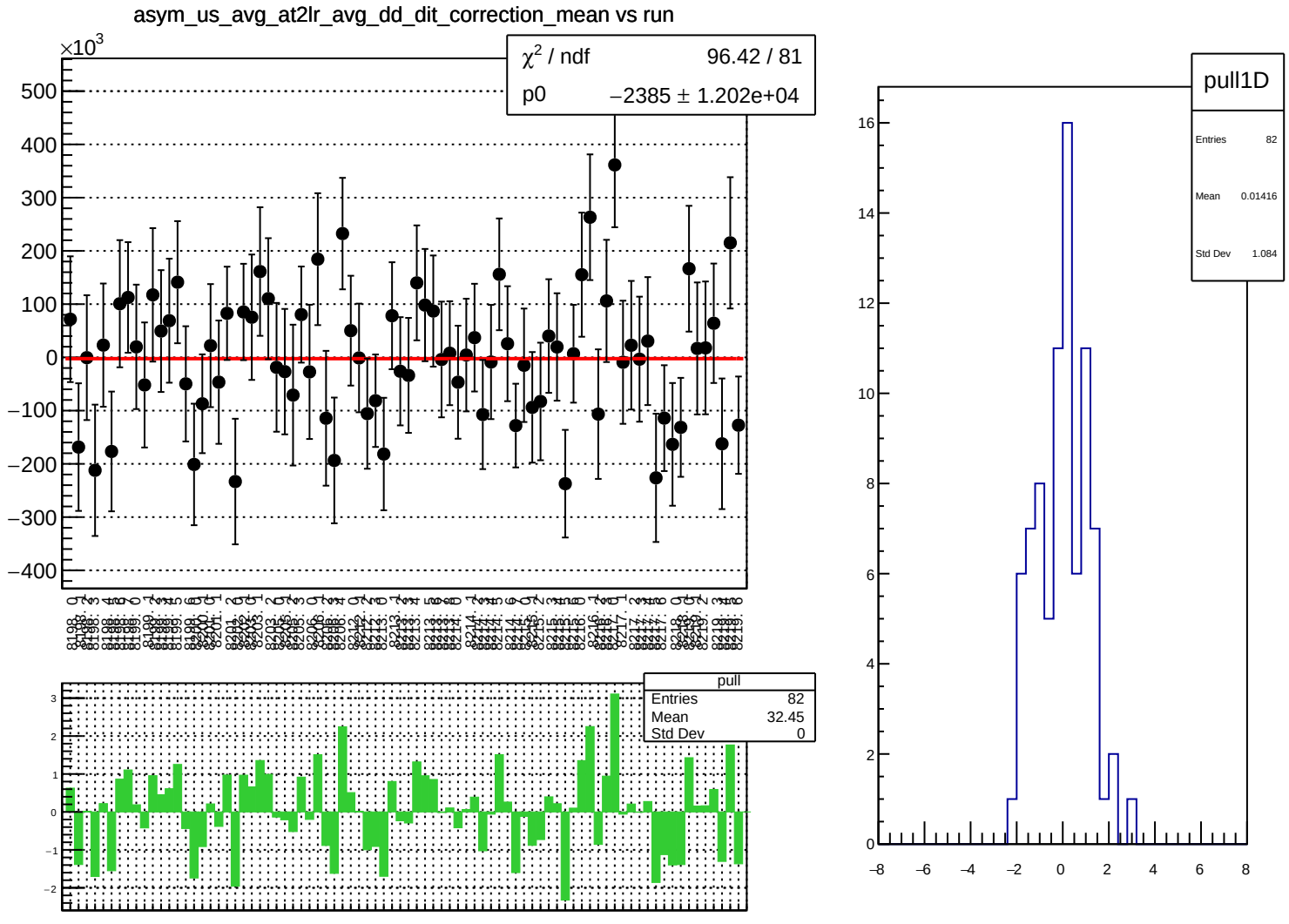

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.82 / 81
p0 −2276 ± 1.204e+04
400
200
0
−200
−400
pull
Entries 82
Mean 42.45
Std Dev 0
pull1D
Entries 82
Mean 0.01341
Std Dev 1.087

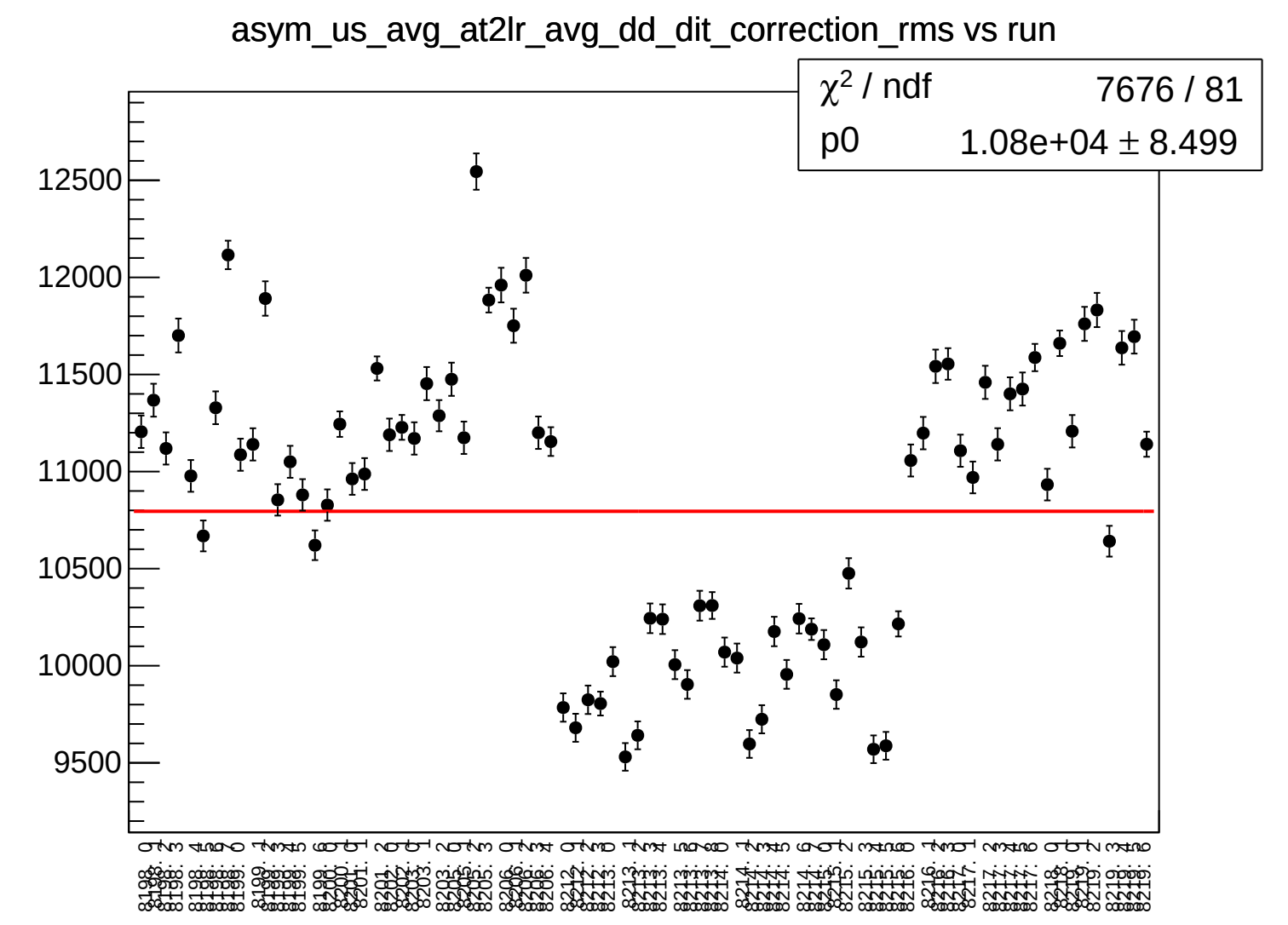

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6527 / 81
p0 1.082e+04 ± 8.516
12500
12000
11500
11000
10500
10000
9500

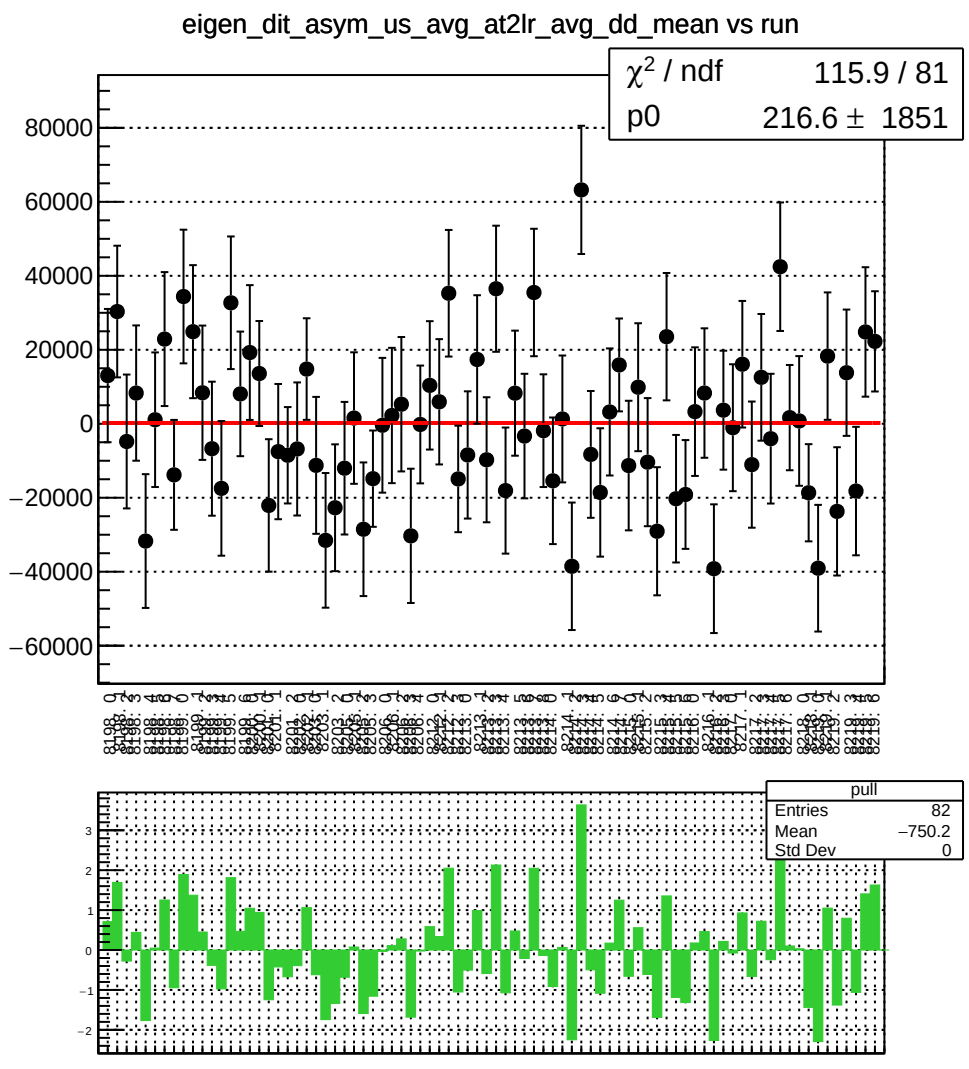

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 115.9 / 81
p0 216.6 ± 1851
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −750
Std Dev 0
3
2
1
0
−1
−2

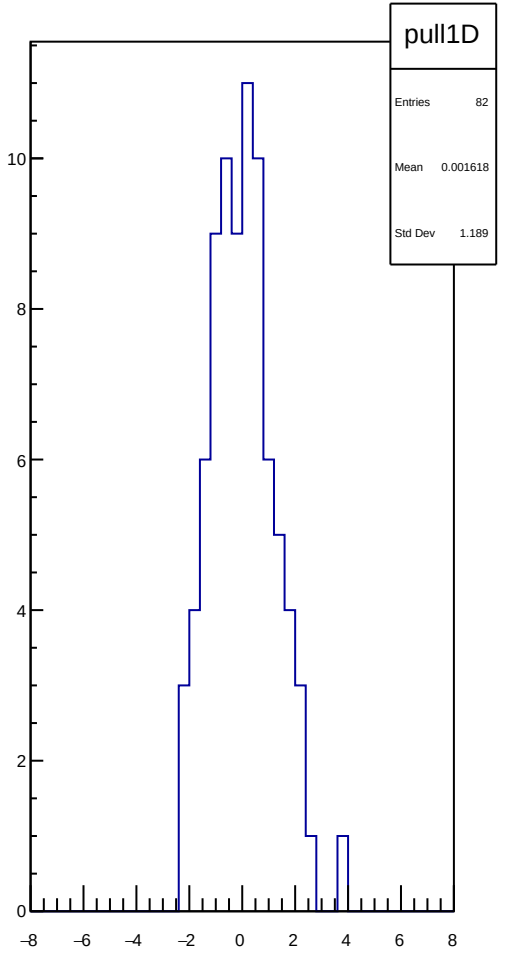

pull1D
Entries 82
Mean 0.001619
Std Dev 1.189
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

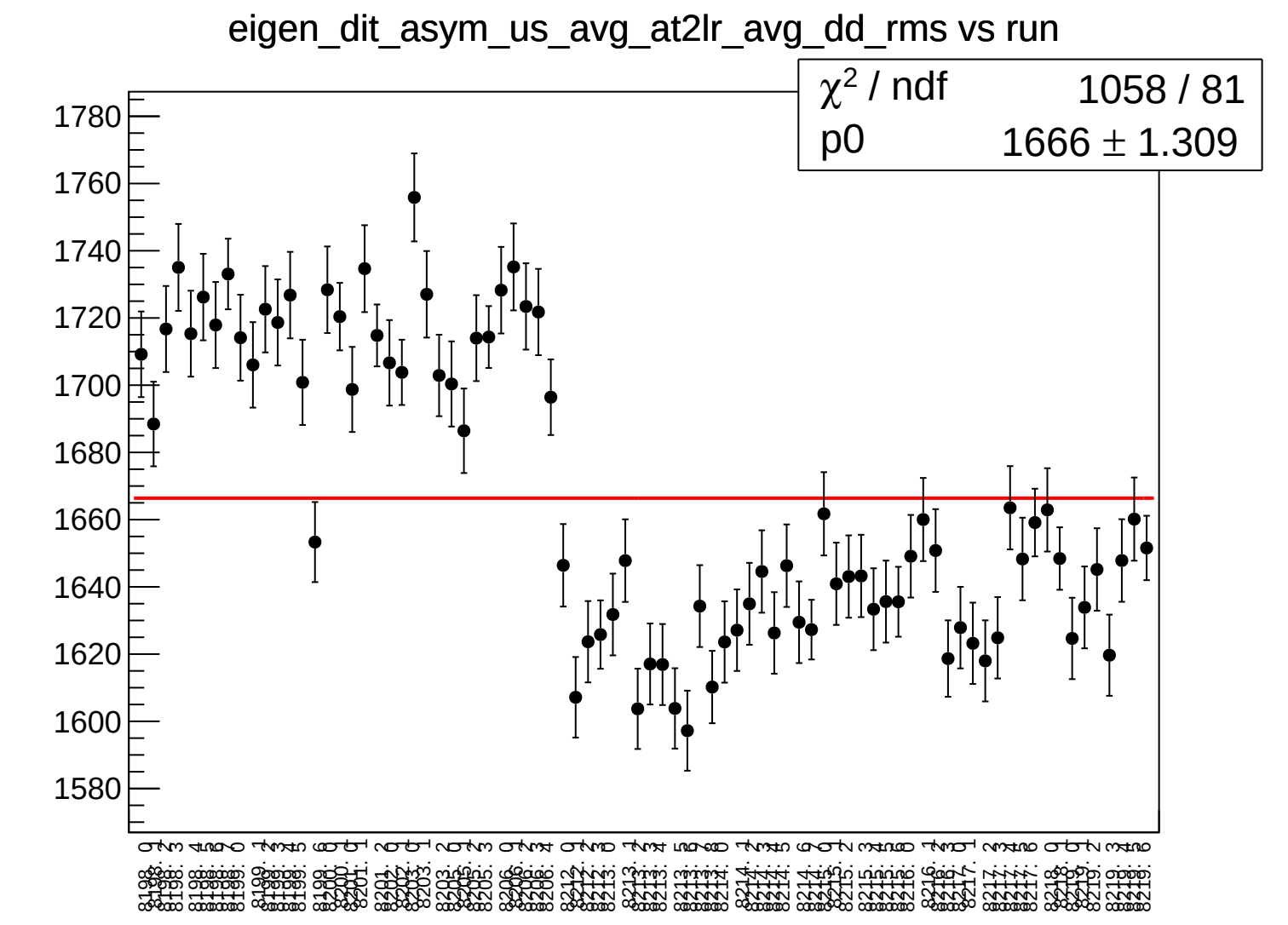

dit_asym_us_avg_at2lr_avg_dd_rms vs run
$\chi^2$ / ndf 1058 / 81
p0 1666 ± 1.309
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

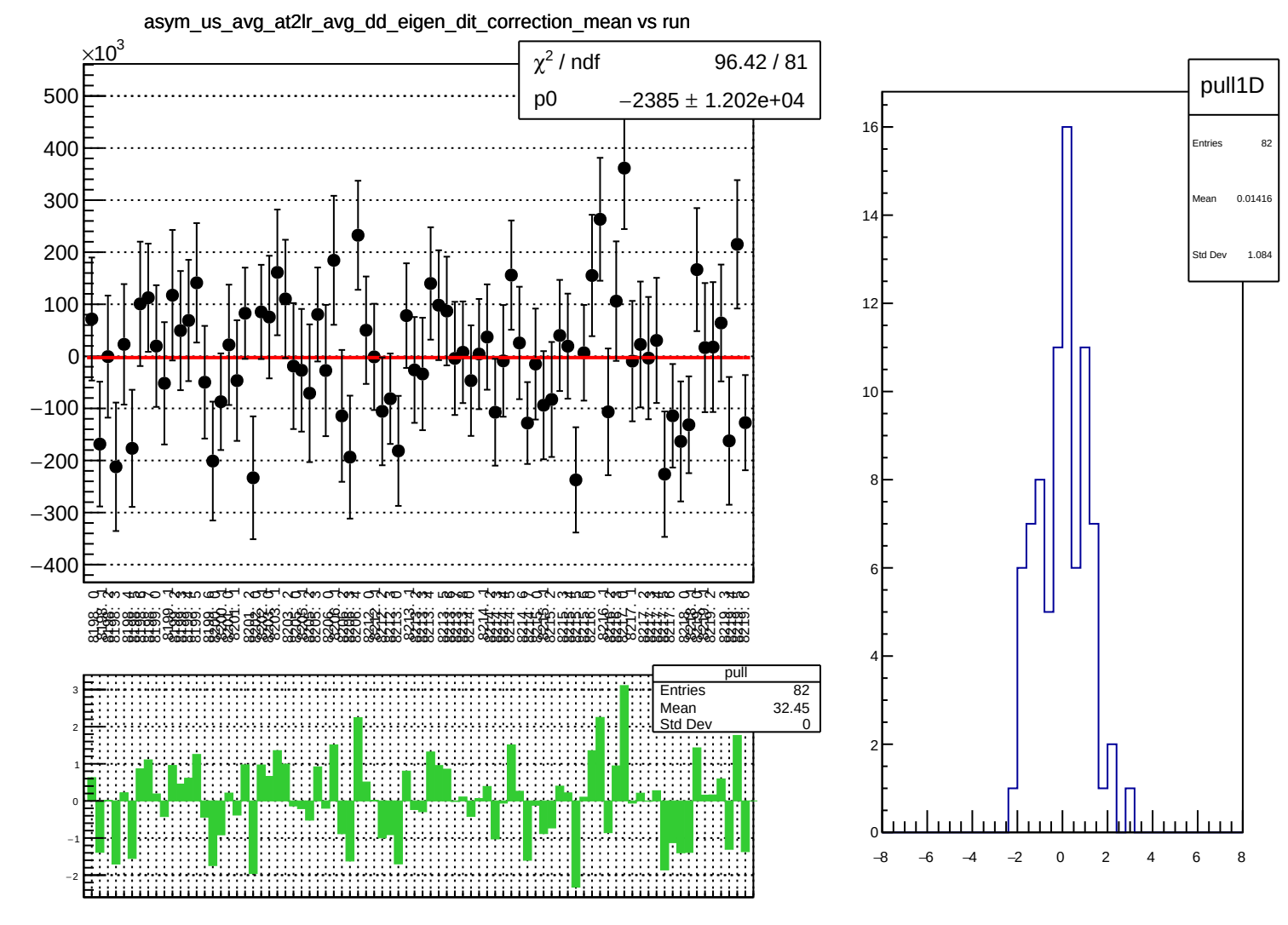

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.42 / 81
p0 −2385 ± 1.202e+04
pull
Entries 82
Mean 32.45
Std Dev 0
pull1D
Entries 82
Mean 0.01416
Std Dev 1.084

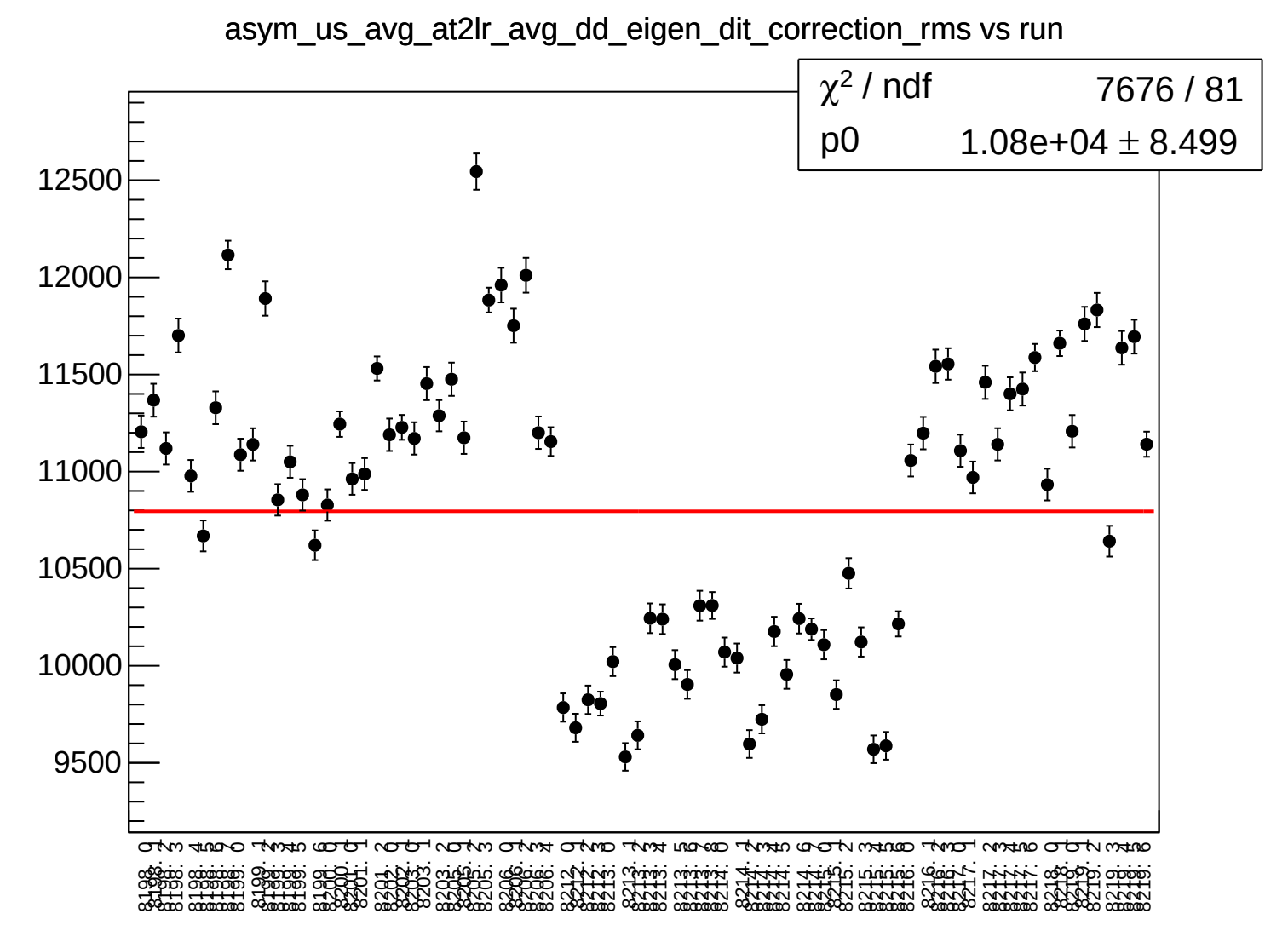

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 7676 / 81
p0 1.08e+04 ± 8.499
12500
12000
11500
11000
10500
10000
9500

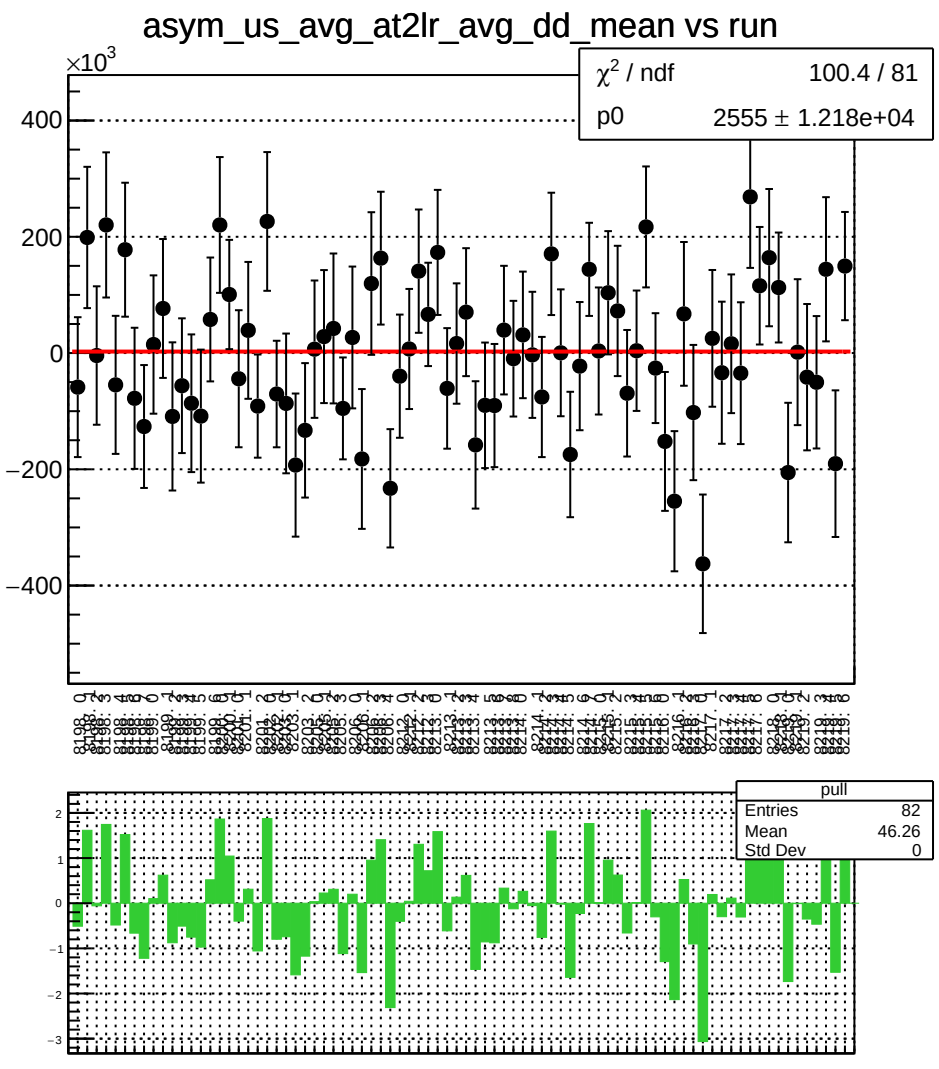

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 115.9 / 81
p0 216.6 ± 1851
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −750.2
Std Dev 0
3
2
1
0
−1
−2

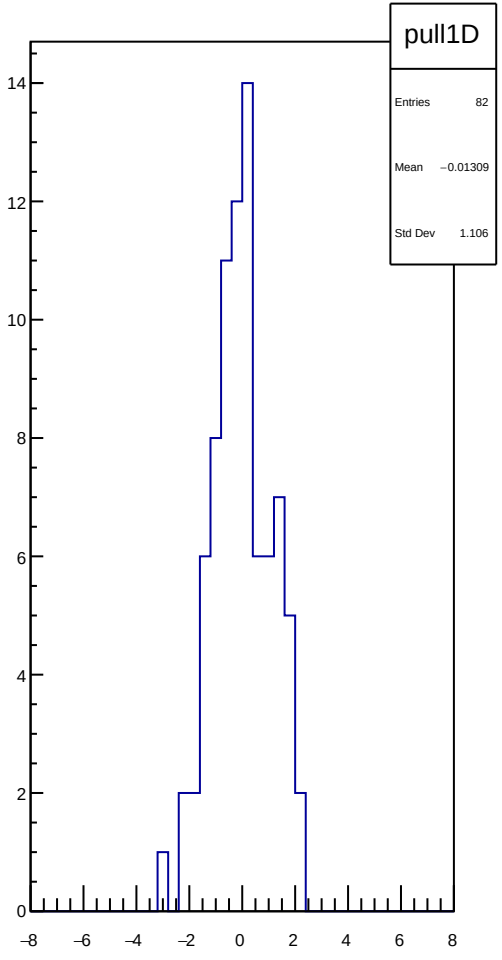

pull1D
Entries 82
Mean 0.001618
Std Dev 1.189
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

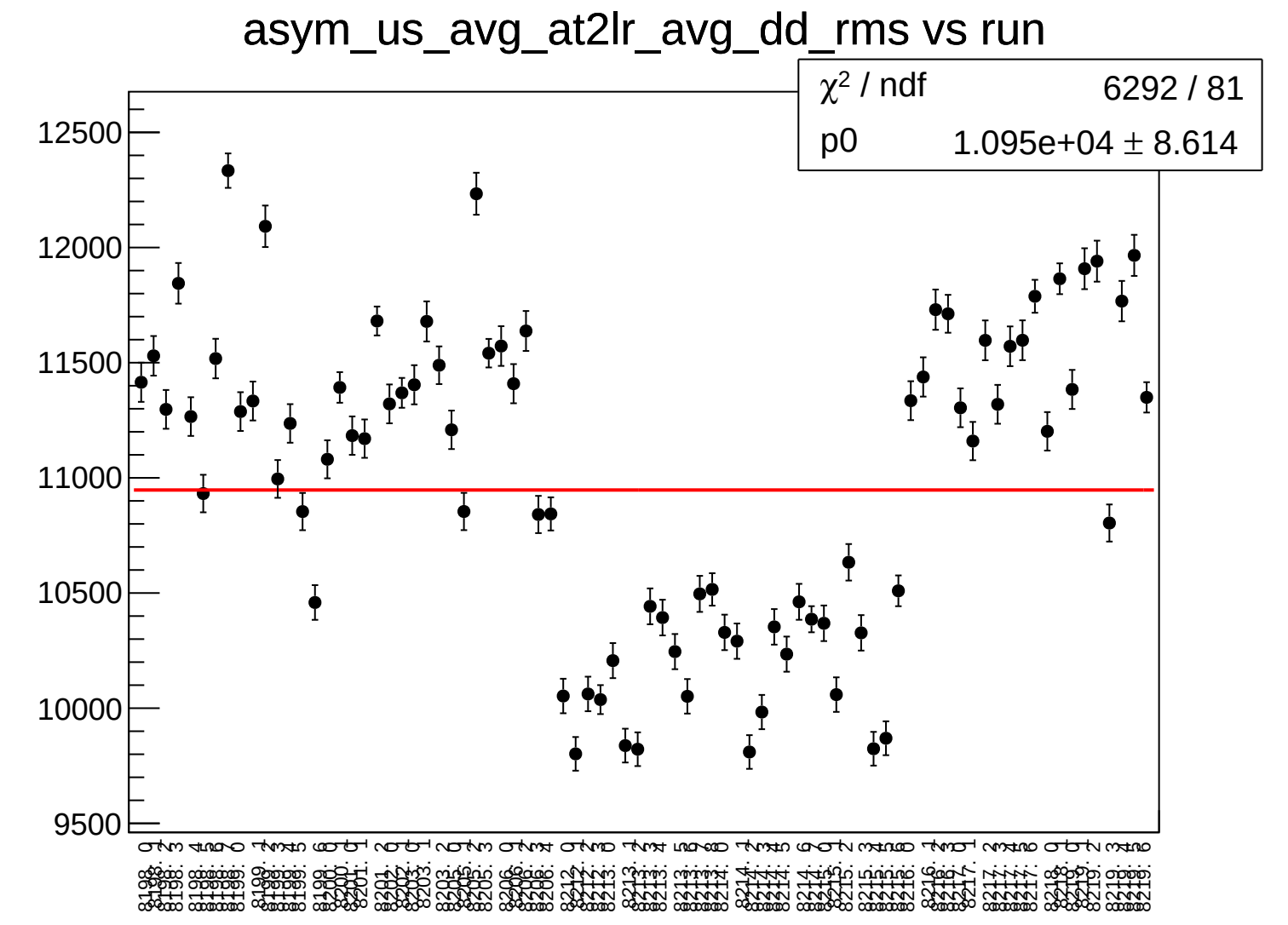

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1058 / 81
p0 1666 ± 1.309
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

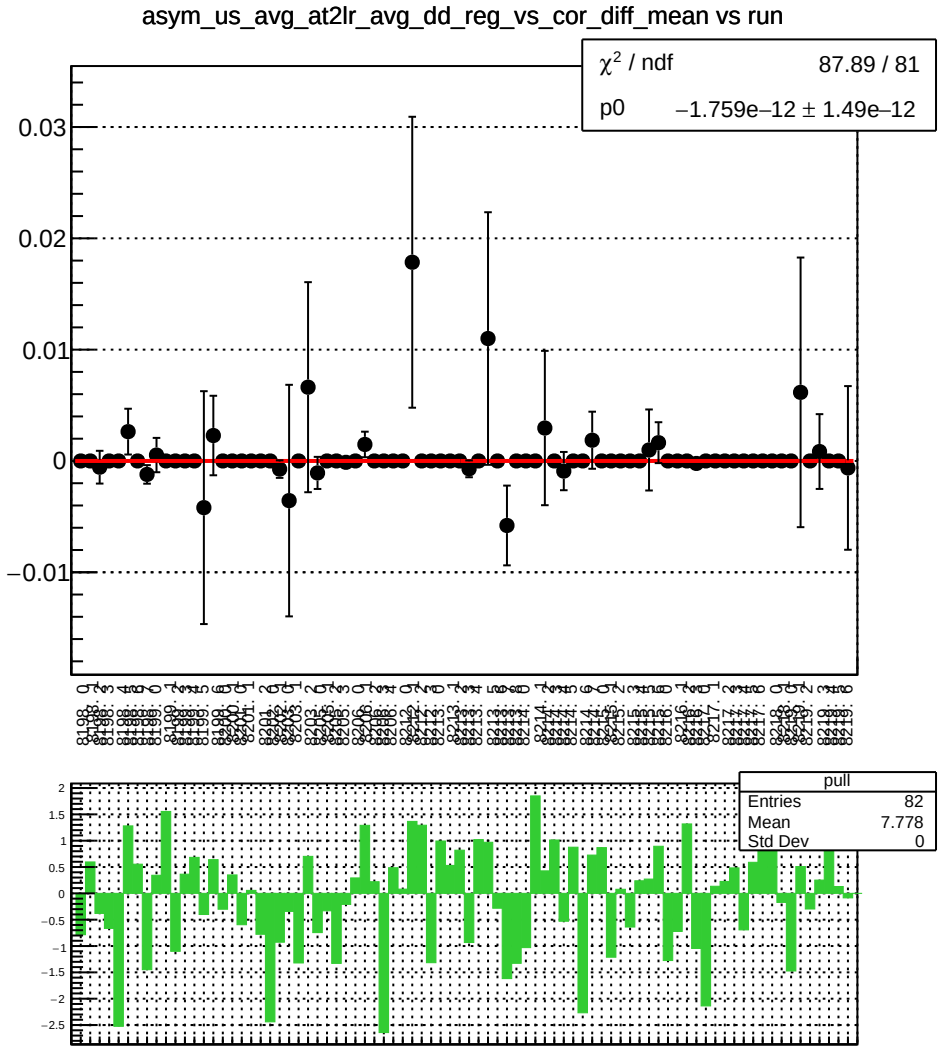

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.42 / 81
p0 −2385 ± 1.202e+04
pull
Entries 82
Mean 32.45
Std Dev 0
pull1D
Entries 82
Mean 0.01416
Std Dev 1.084

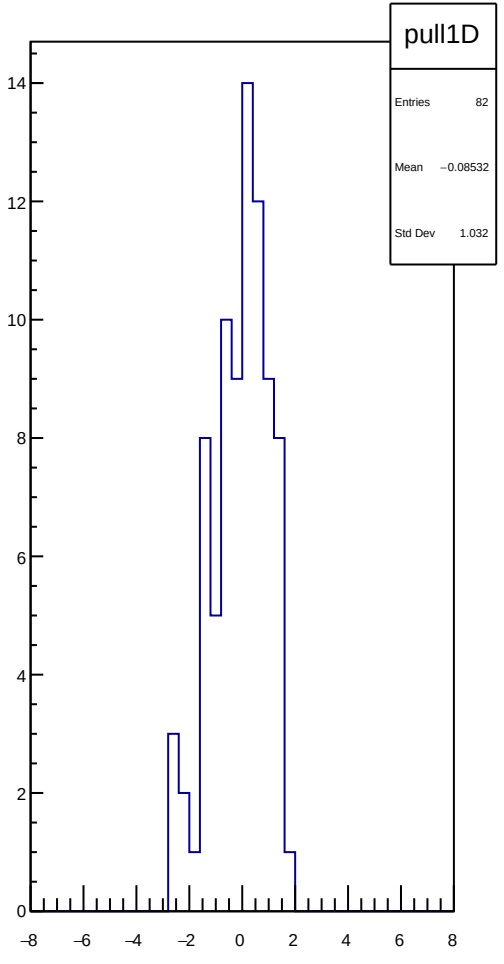

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7676 / 81
p0 1.08e+04 ± 8.499
12500
12000
11500
11000
10500
10000
9500

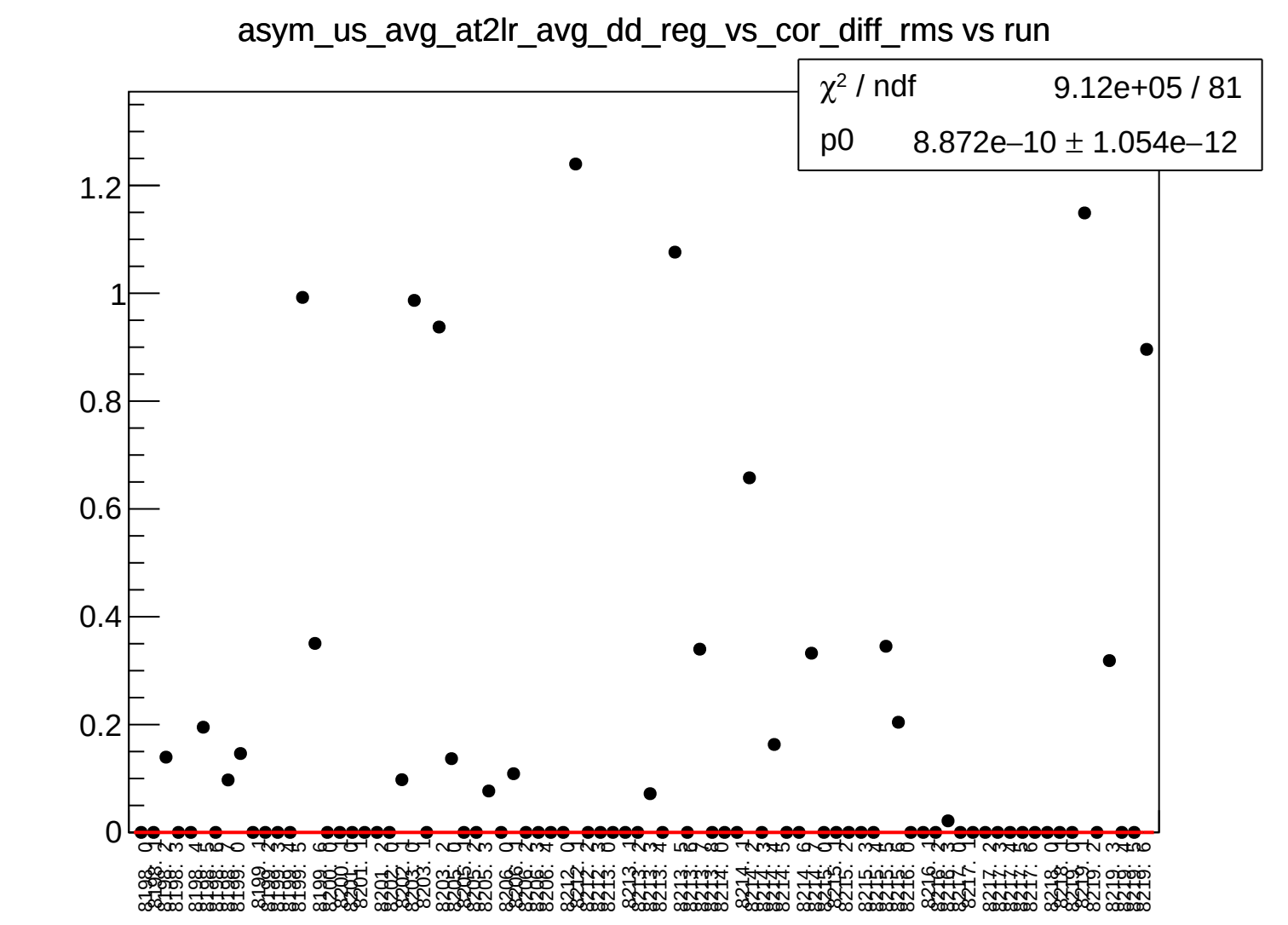

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 100.4 / 81
p0 2555 ± 1.218e+04
400
200
0
−200
−400
pull
Entries 82
Mean 46.26
Std Dev 0
2
1
0
−1
−2
−3

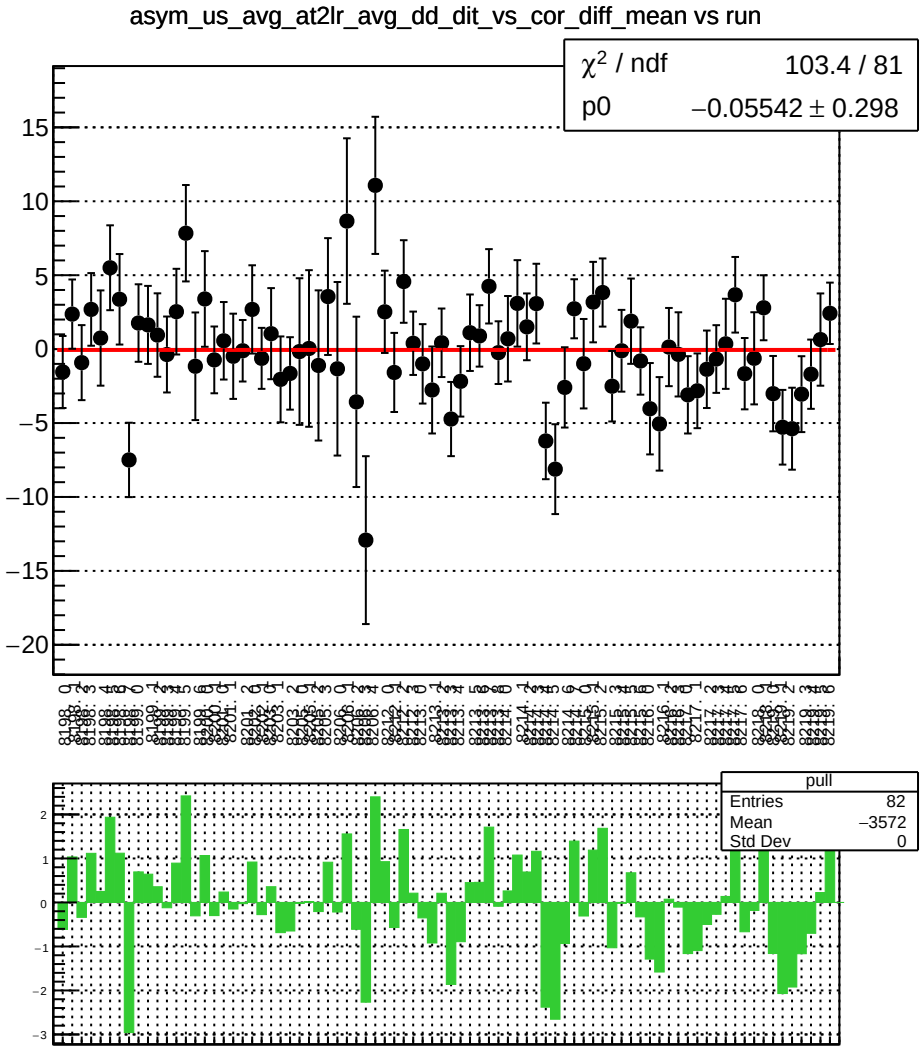

pull1D
Entries 82
Mean −0.01309
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

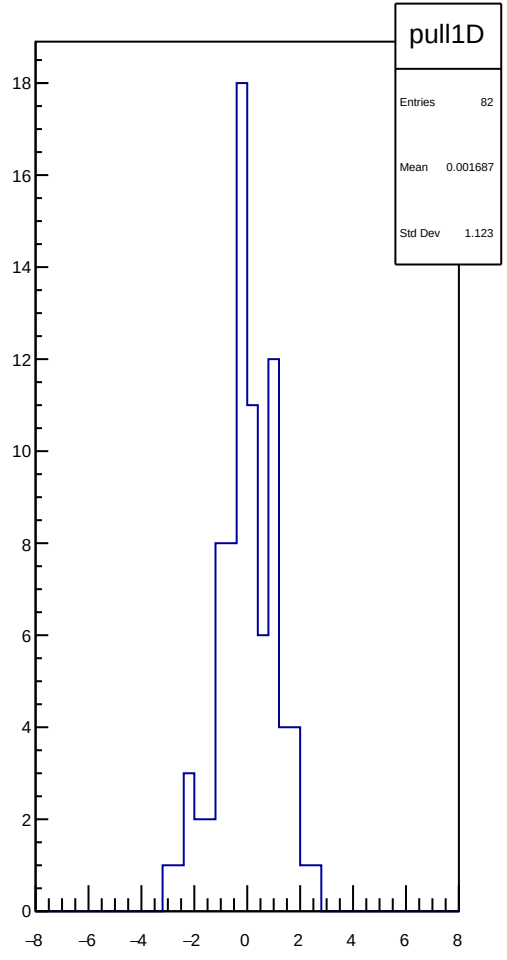

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 6292 / 81
p0 1.095e+04 ± 8.614
12500
12000
11500
11000
10500
10000
9500

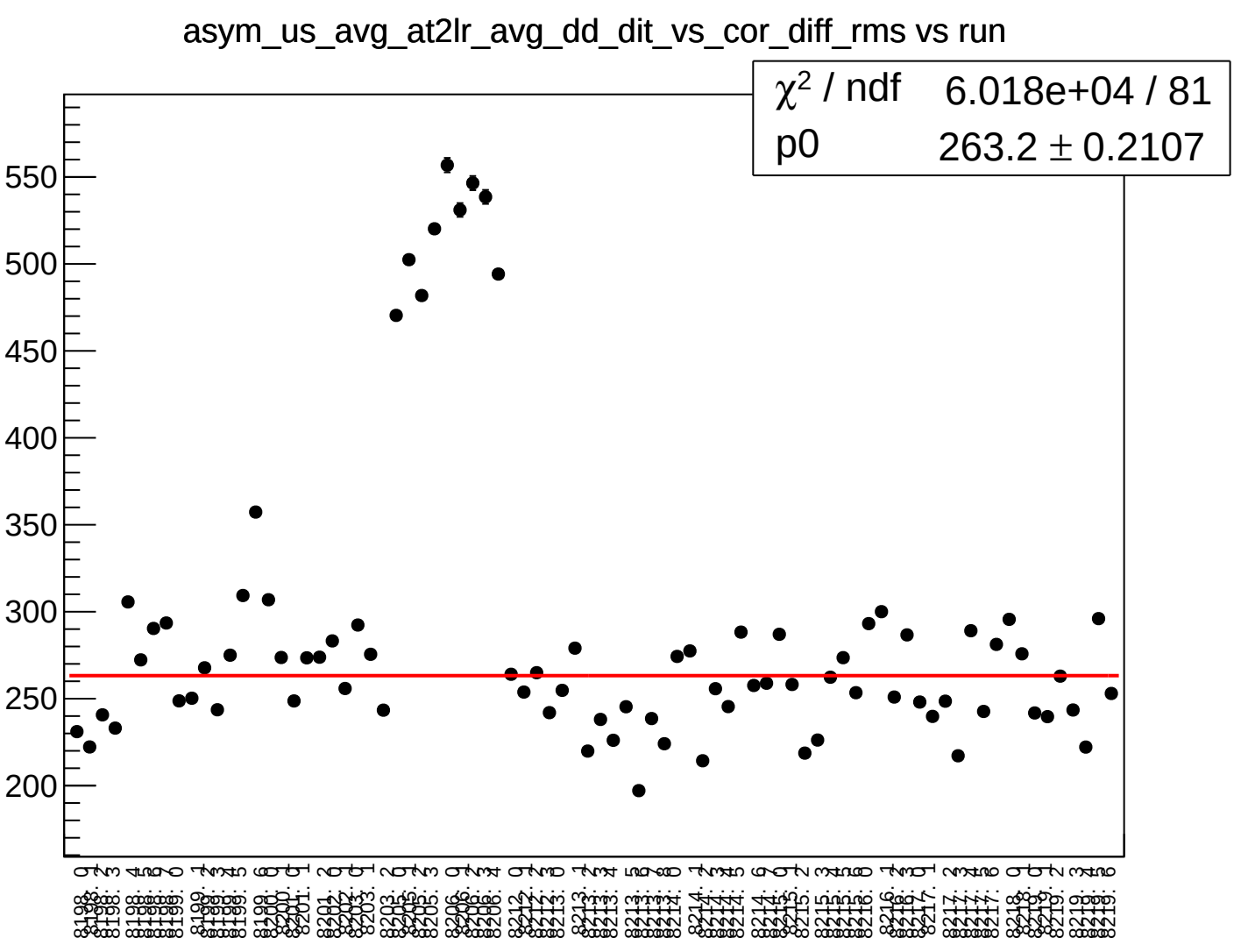

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.89 / 81
p0 −1.759e−12 ± 1.49e−12
0.03
0.02
0.01
0
−0.01
pull
Entries 82
Mean 7.778
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

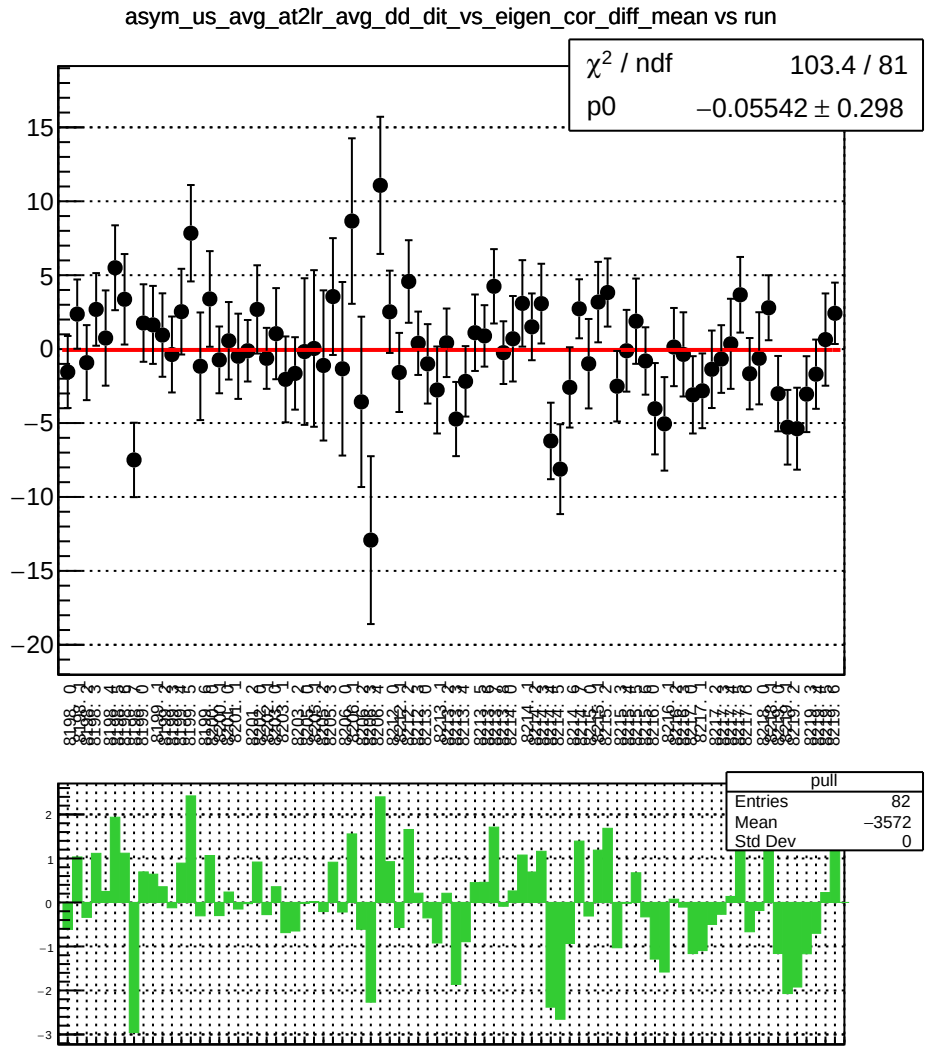

pull1D
Entries 82
Mean −0.08532
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

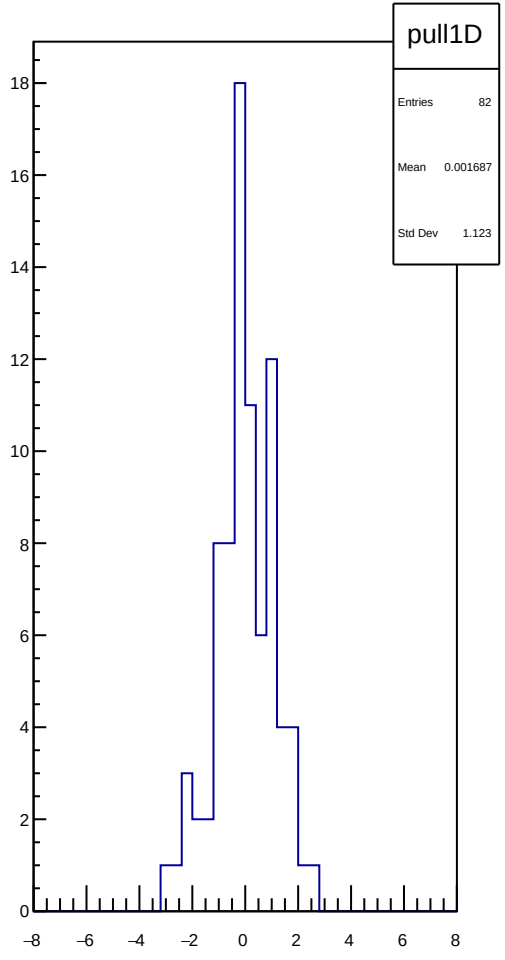

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.12e+05 / 81
p0 8.872e−10 ± 1.054e−12
1.2
1
0.8
0.6
0.4
0.2
0

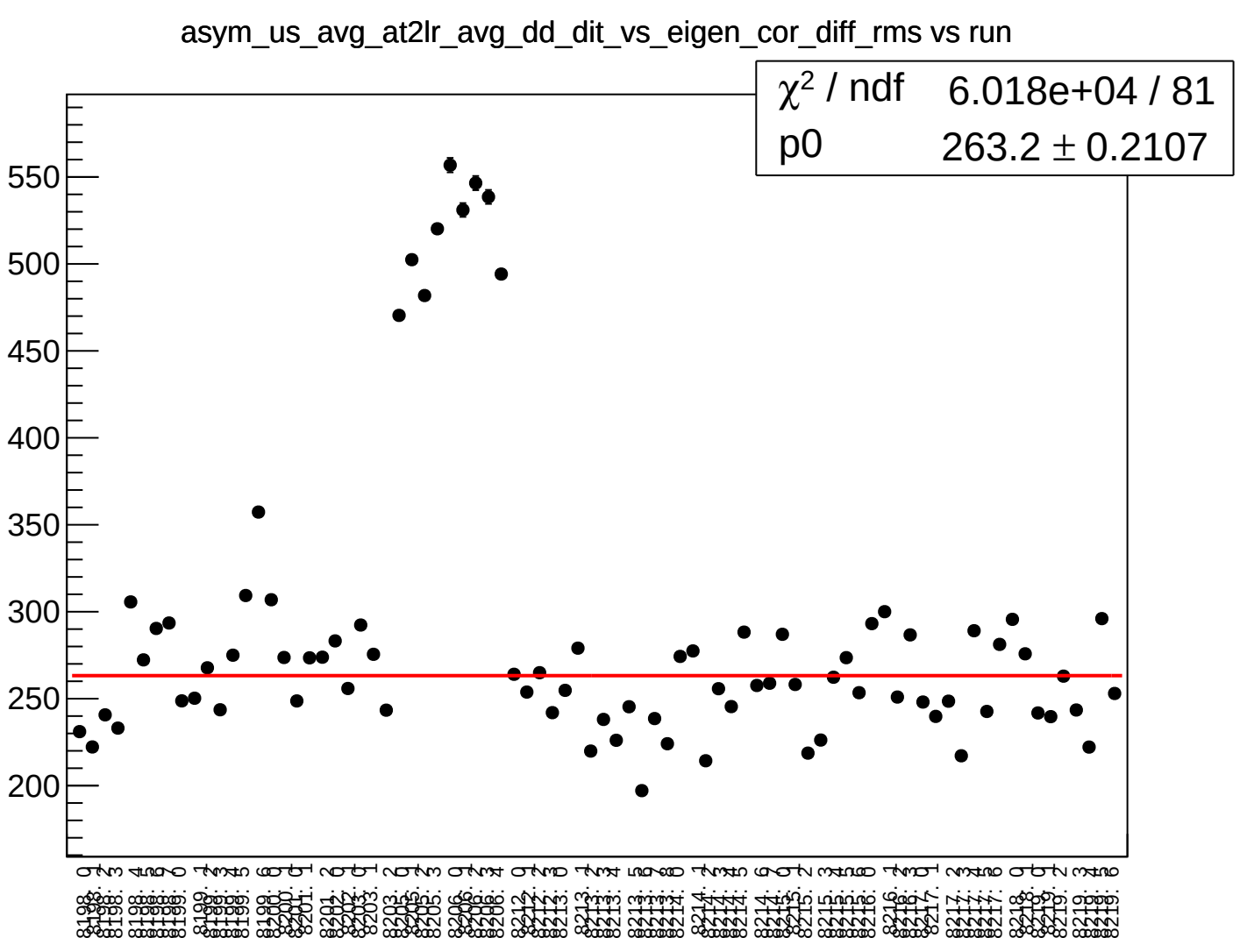

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 81
p0 −0.05542 ± 0.298
pull
Entries 82
Mean −3572
Std Dev 0

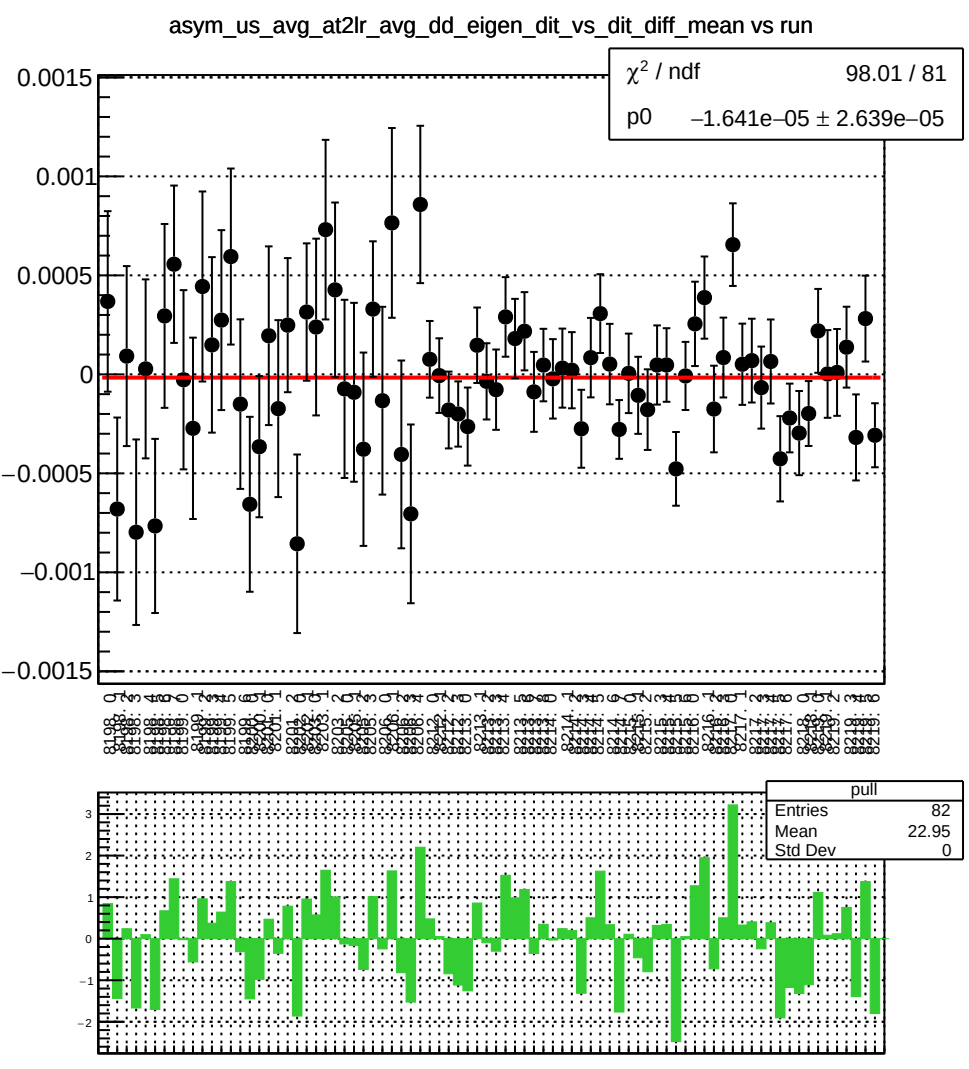

pull1D
Entries 82
Mean 0.001687
Std Dev 1.123

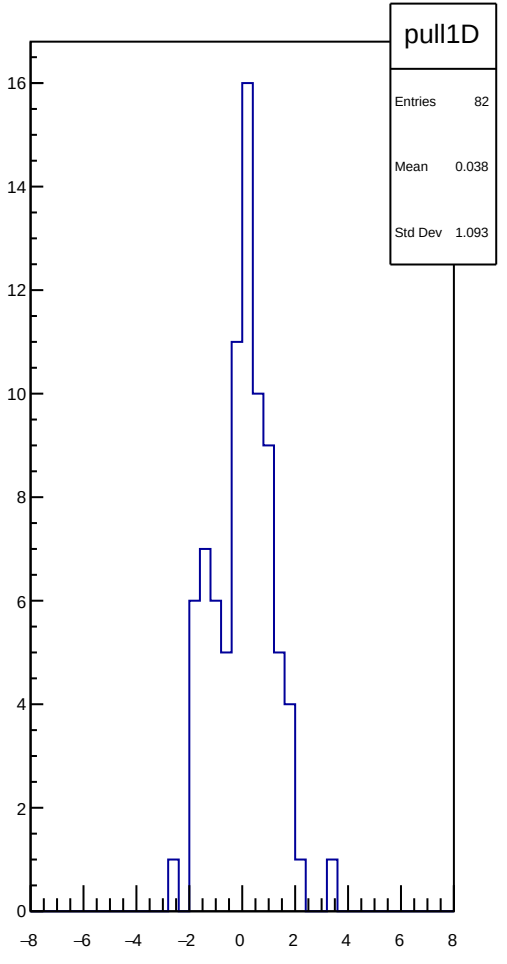

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.018e+04 / 81
p0 263.2 ± 0.2107
550
500
450
400
350
300
250
200

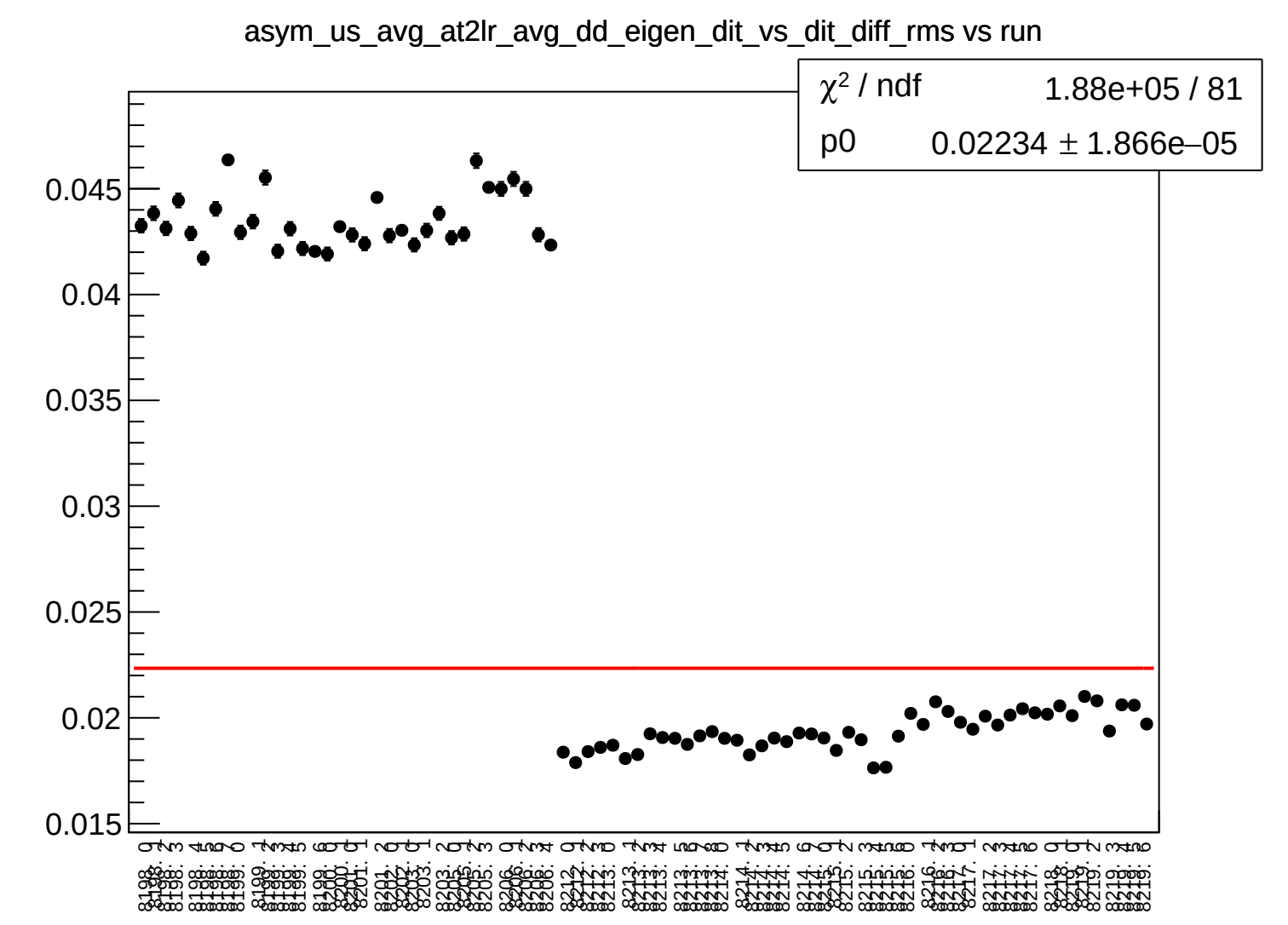

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.4 / 81
p0 −0.05542 ± 0.298
pull
Entries 82
Mean −3572
Std Dev 0

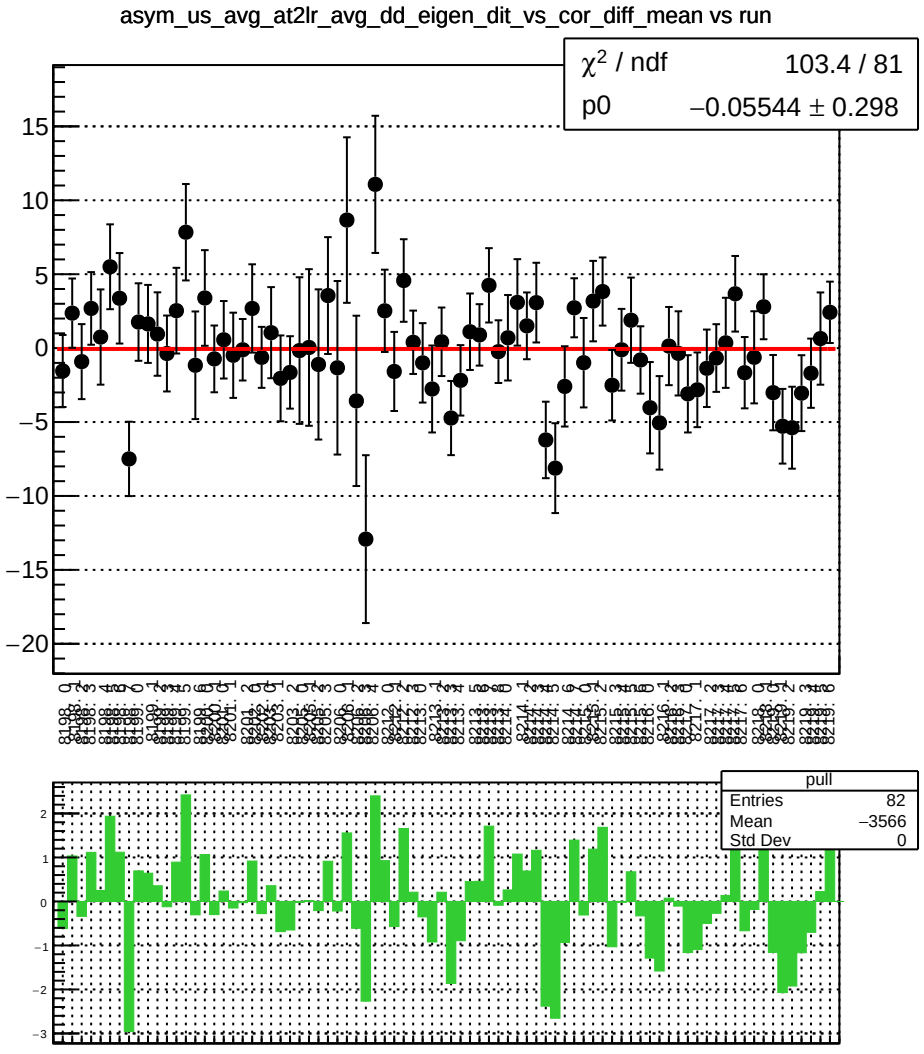

pull1D
Entries 82
Mean 0.001687
Std Dev 1.123

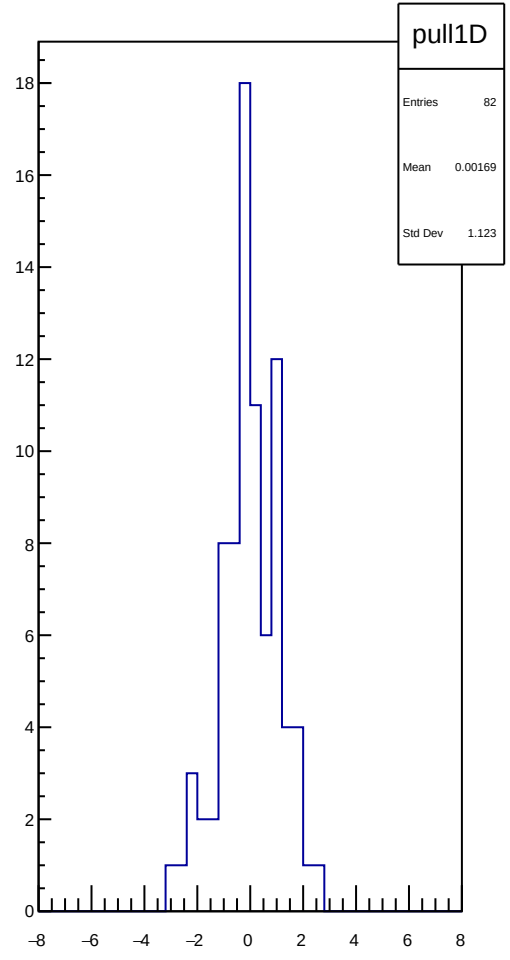

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.018e+04 / 81
p0 263.2 ± 0.2107
550
500
450
400
350
300
250
200

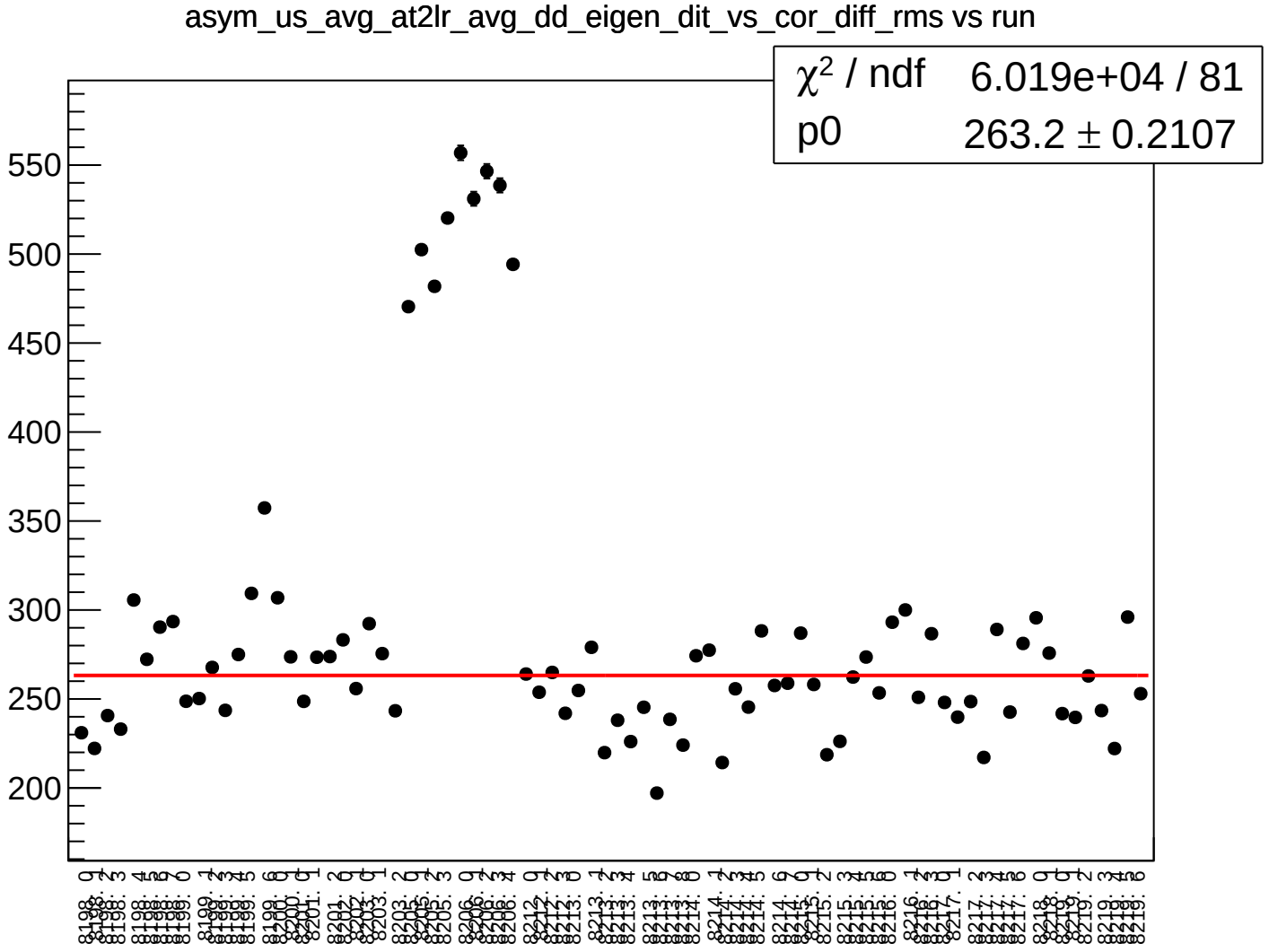

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 98.01 / 81
p0 −1.641e−05 ± 2.639e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean 22.95
Std Dev 0
3
2
1
0
−1
−2

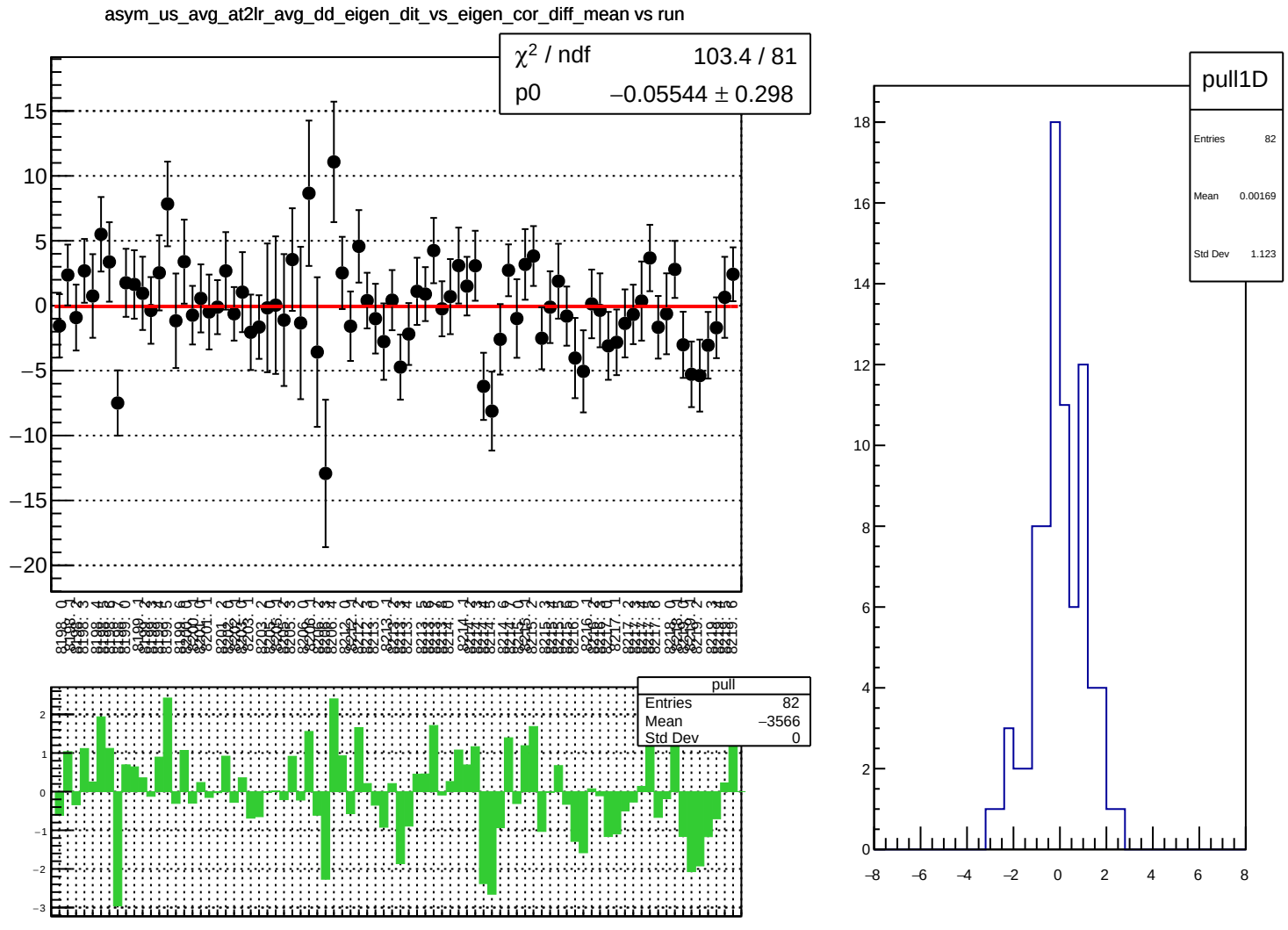

pull1D
Entries 82
Mean 0.038
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

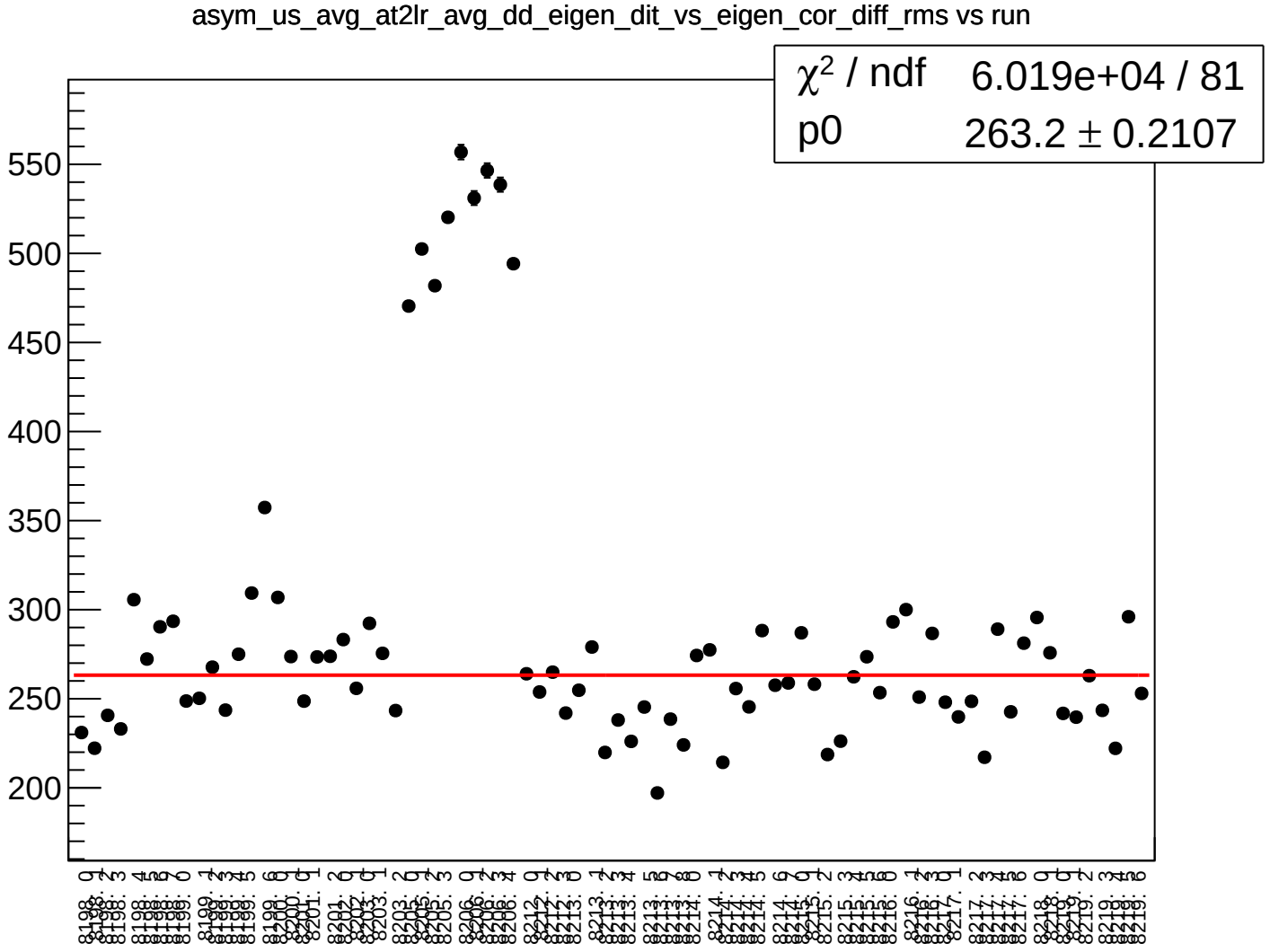

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.88e+05 / 81
p0 0.02234 ± 1.866e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

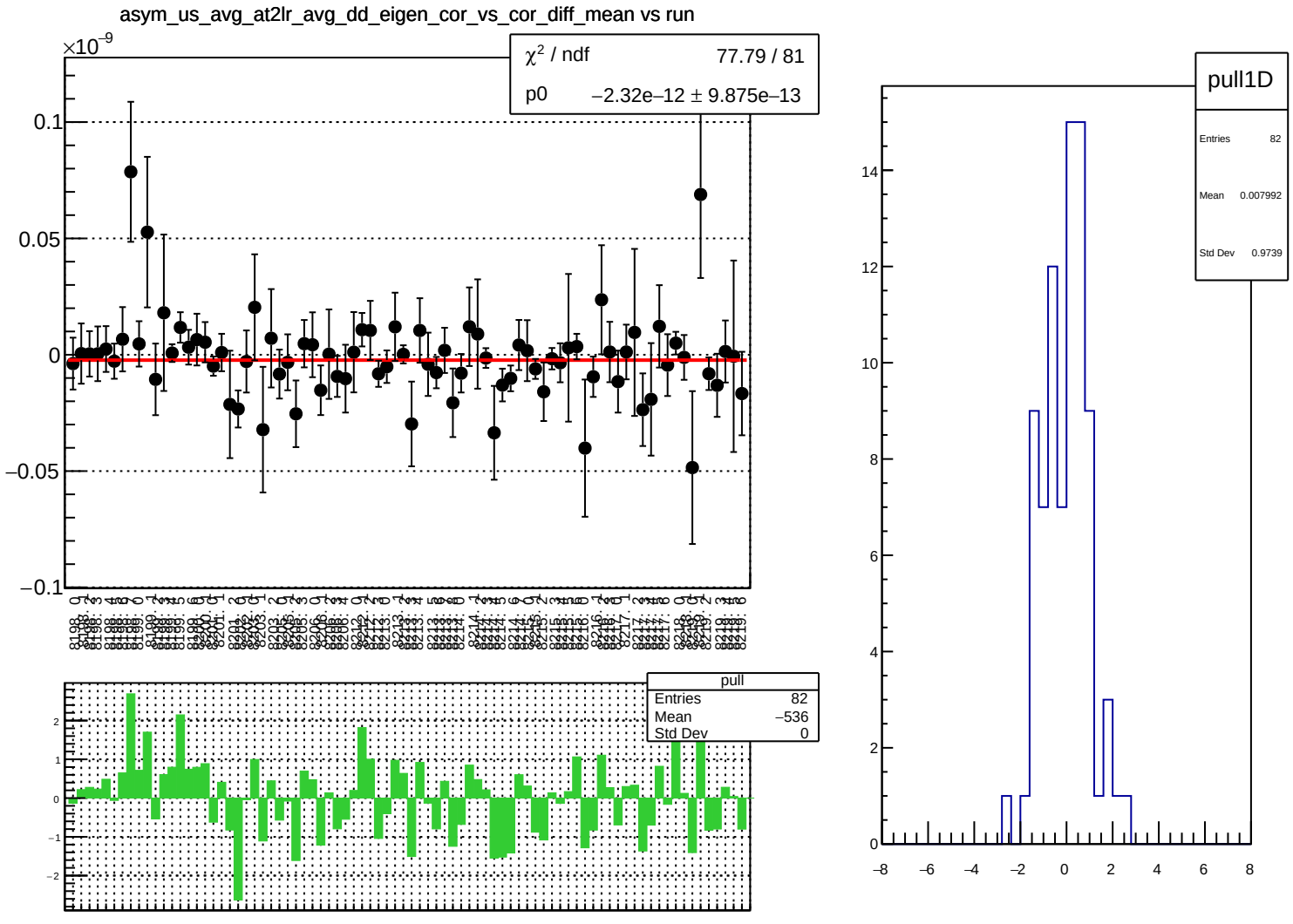

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 81
p0 −0.05544 ± 0.298
pull
Entries 82
Mean −3566
Std Dev 0

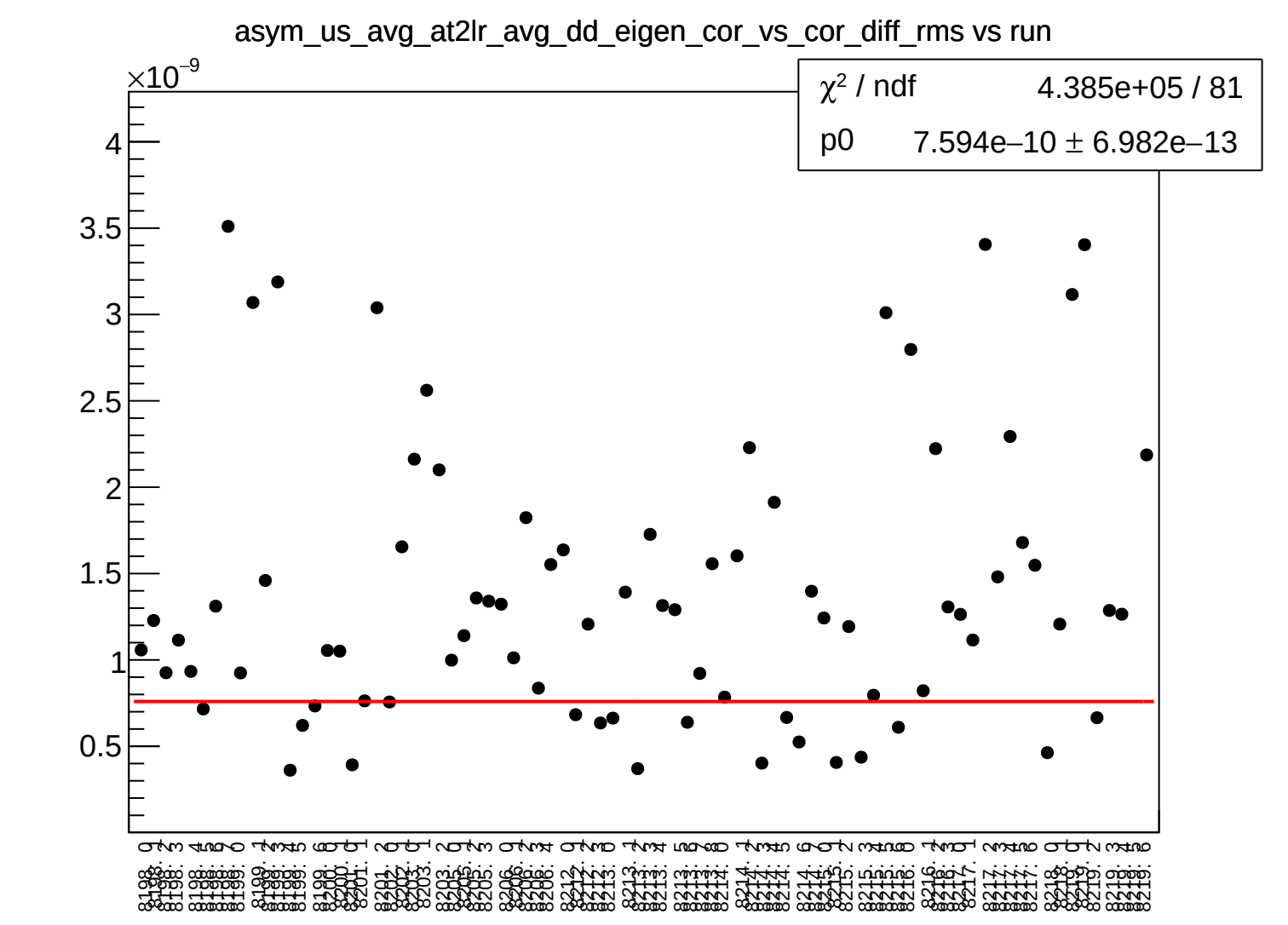

pull1D
Entries 82
Mean 0.00169
Std Dev 1.123

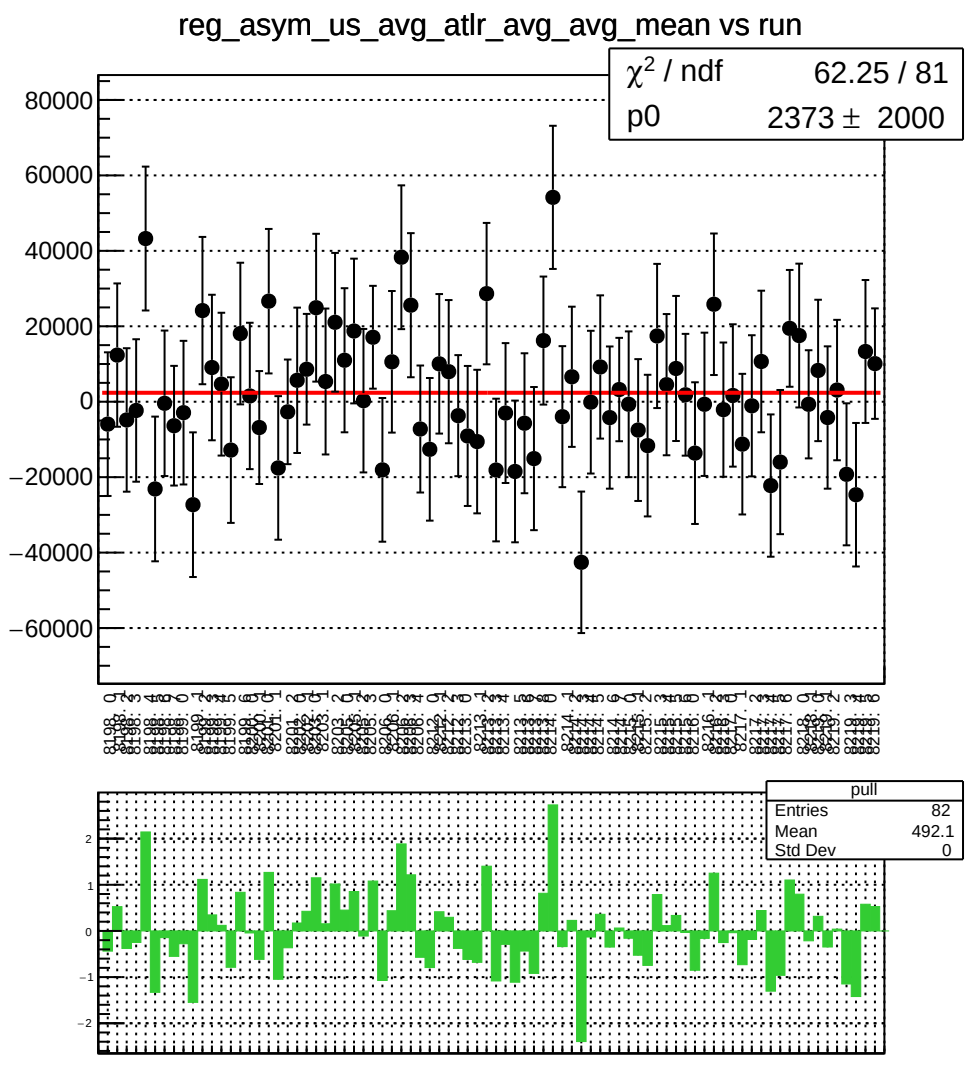

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.019e+04 / 81
p0 263.2 ± 0.2107
550
500
450
400
350
300
250
200

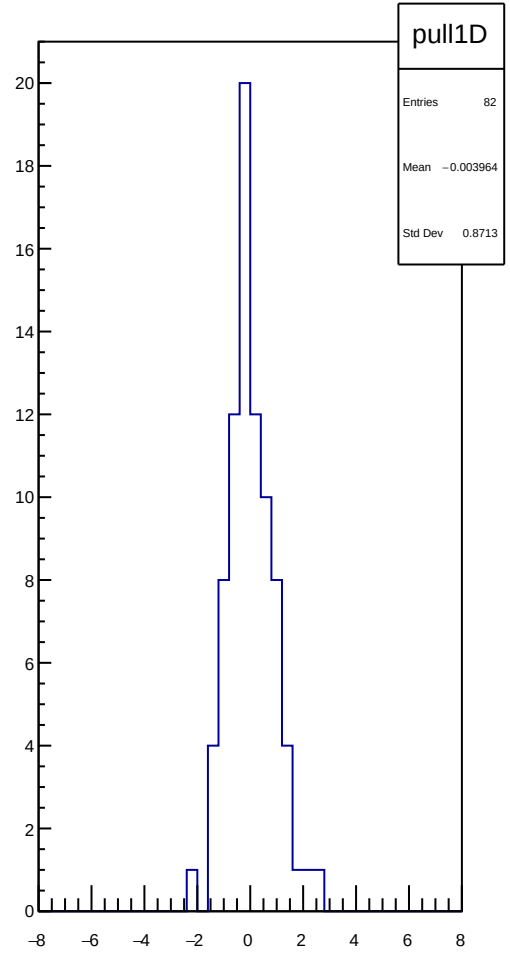

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.4 / 81
p0 −0.05544 ± 0.298
pull
Entries 82
Mean −3566
Std Dev 0
pull1D
Entries 82
Mean 0.00169
Std Dev 1.123

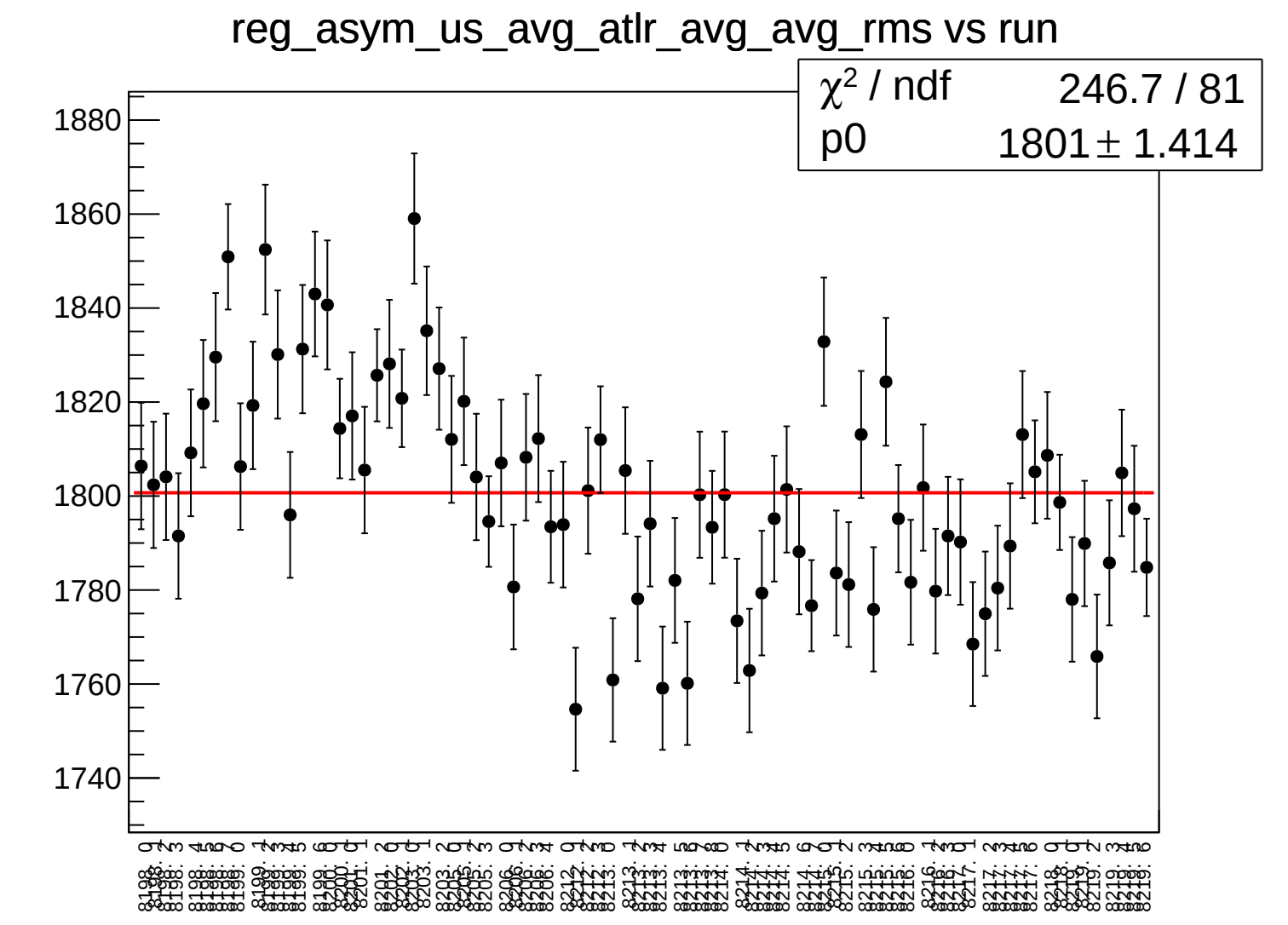

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.019e+04 / 81
p0 263.2 ± 0.2107
550
500
450
400
350
300
250
200

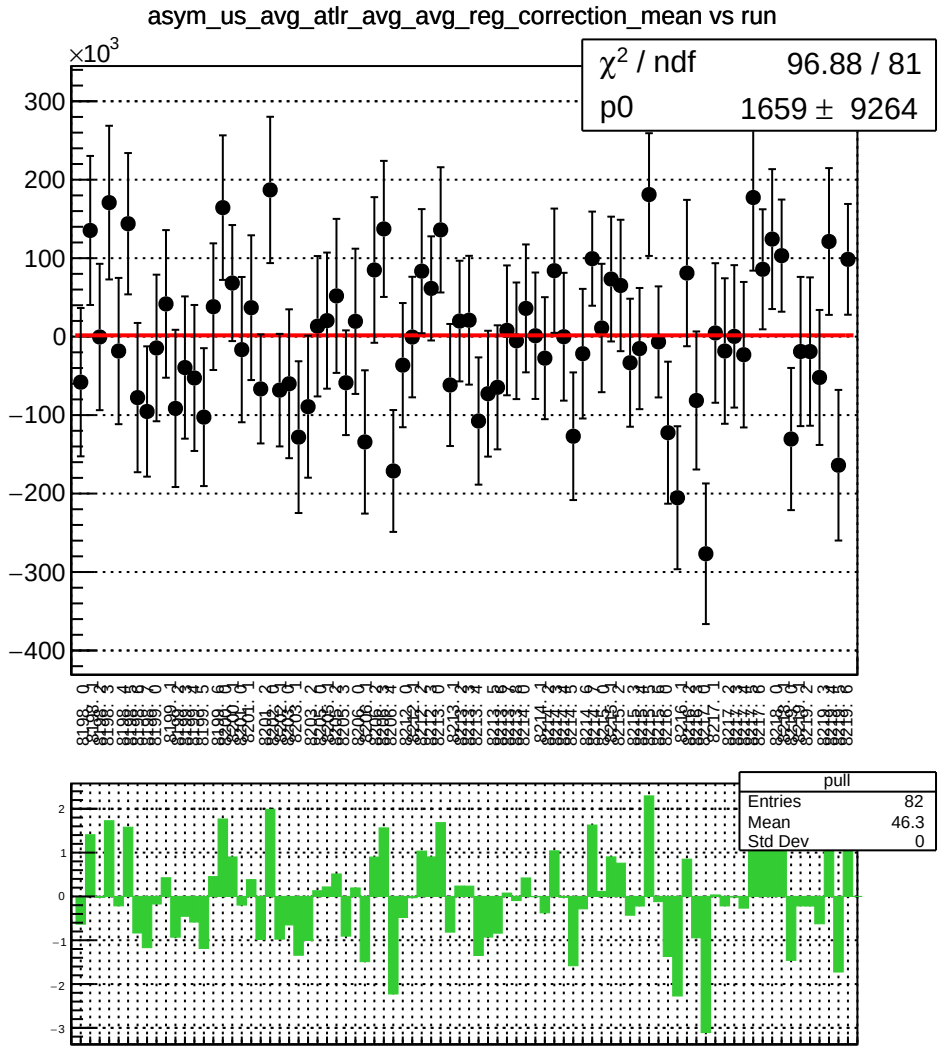

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 77.79 / 81
p0 −2.32e−12 ± 9.875e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean −536
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.007992
Std Dev 0.9739
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

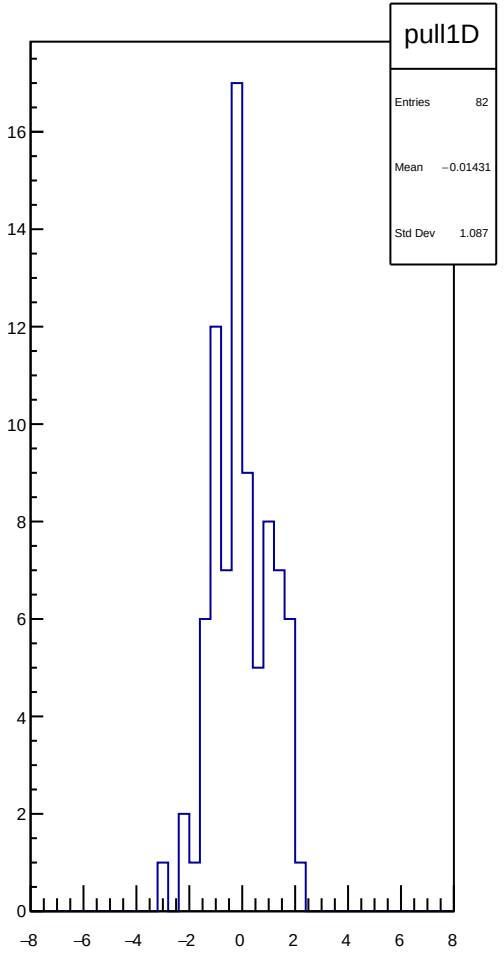

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.385e+05 / 81
p0 7.594e−10 ± 6.982e−13
4
3.5
3
2.5
2
1.5
1
0.5

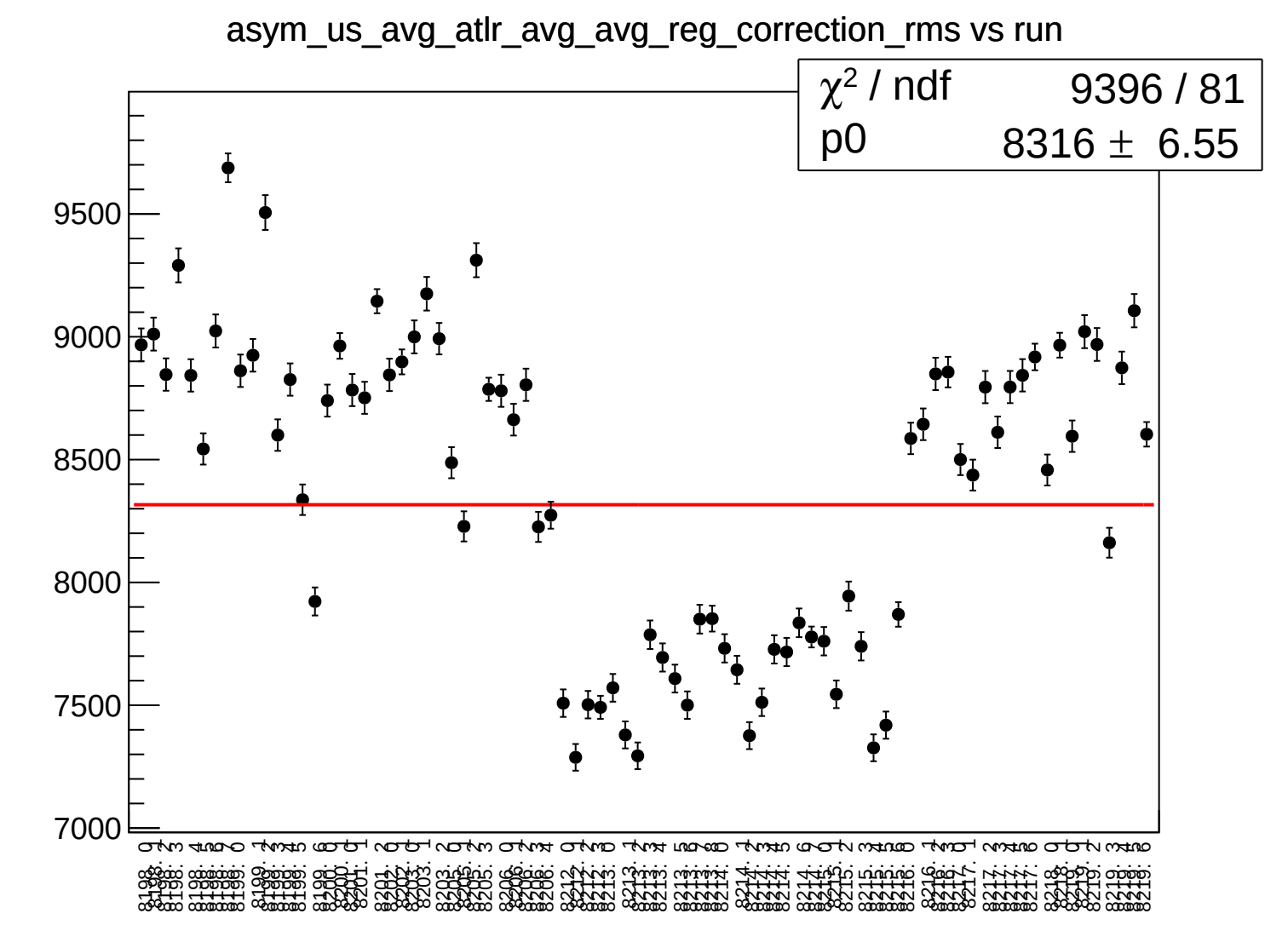

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 62.25 / 81
p0 2373 ± 2000
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 492.1
Std Dev 0
2
1
0
−1
−2

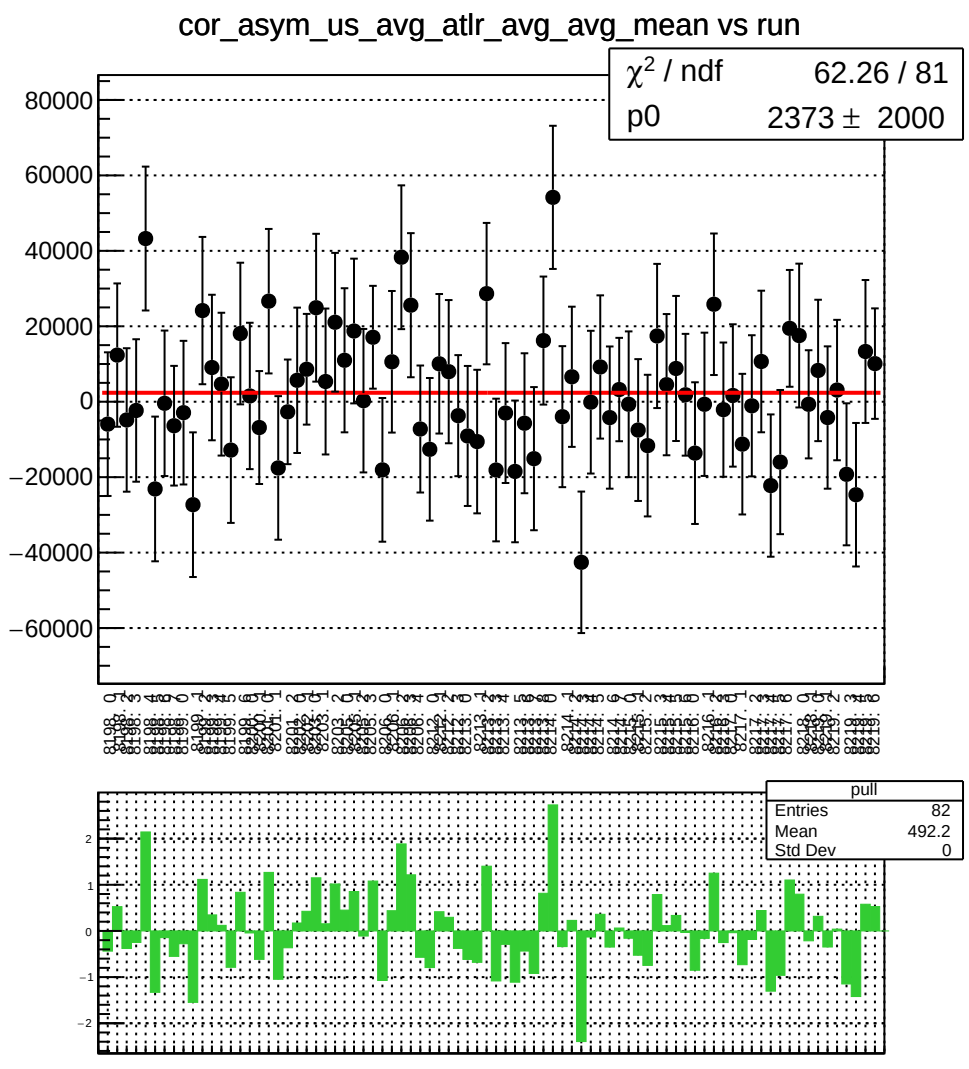

pull1D
Entries 82
Mean −0.003964
Std Dev 0.8713
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

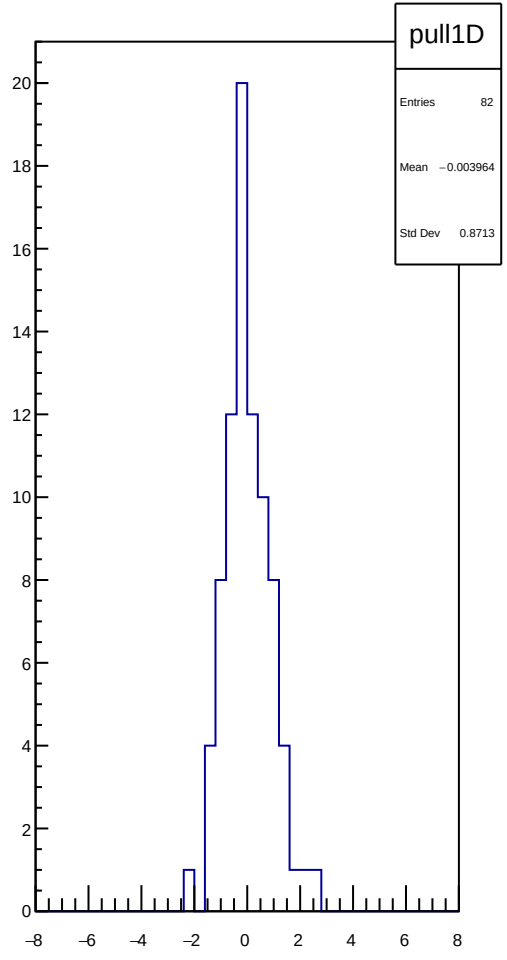

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 246.7 / 81
p0 1801 ± 1.414
1880
1860
1840
1820
1800
1780
1760
1740

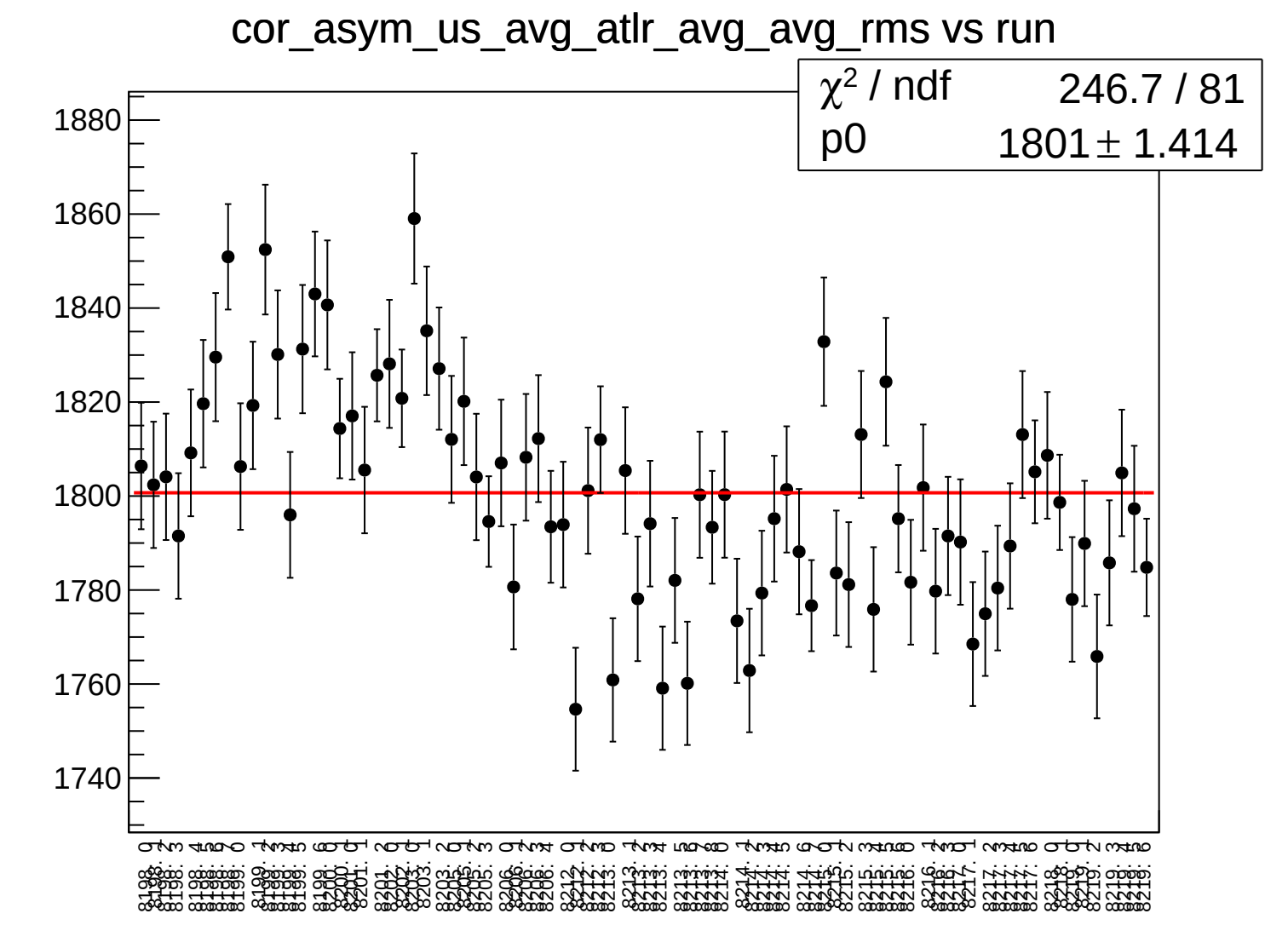

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.88 / 81
p0 1659 ± 9264
pull
Entries 82
Mean 46.3
Std Dev 0

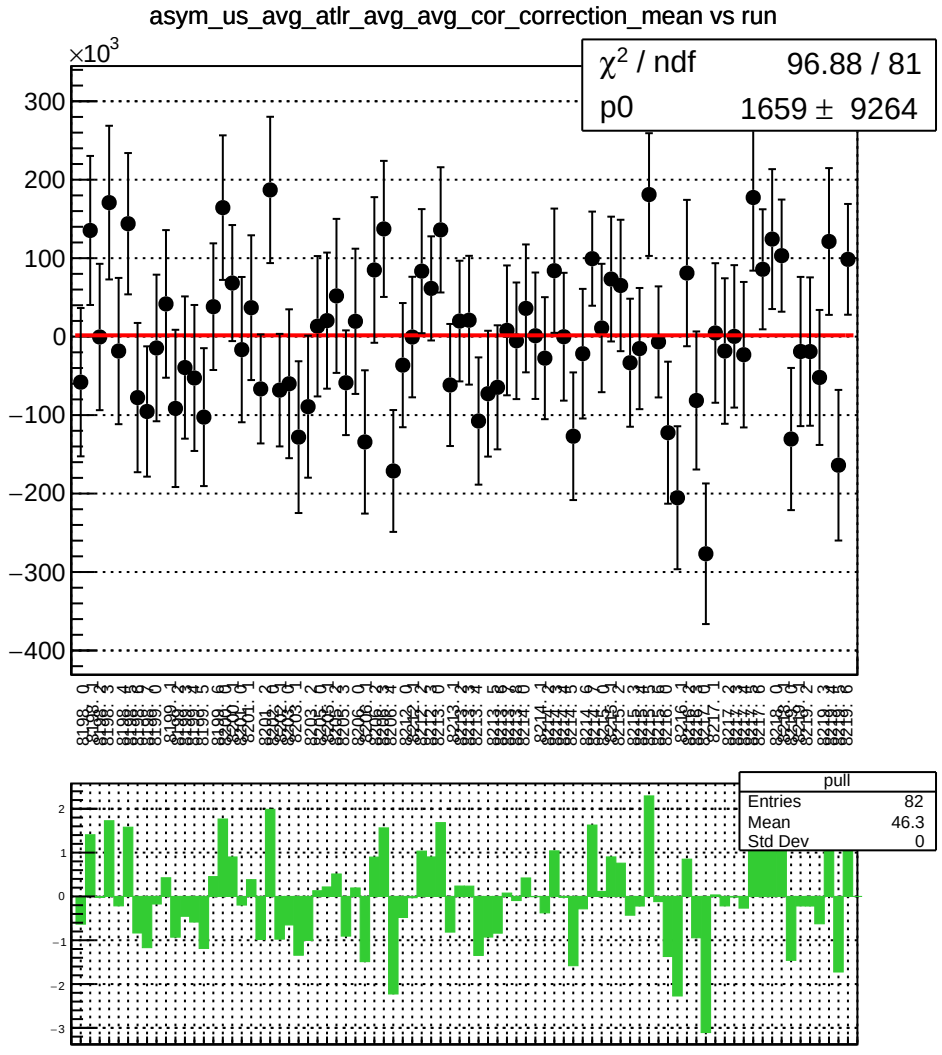

pull1D
Entries 82
Mean −0.01431
Std Dev 1.087

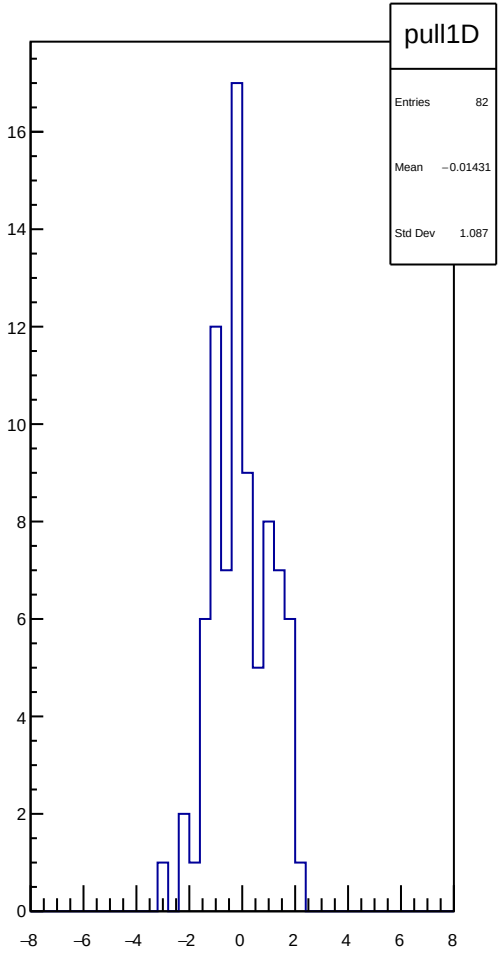

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 9396 / 81
p0 8316 ± 6.55
9500
9000
8500
8000
7500
7000

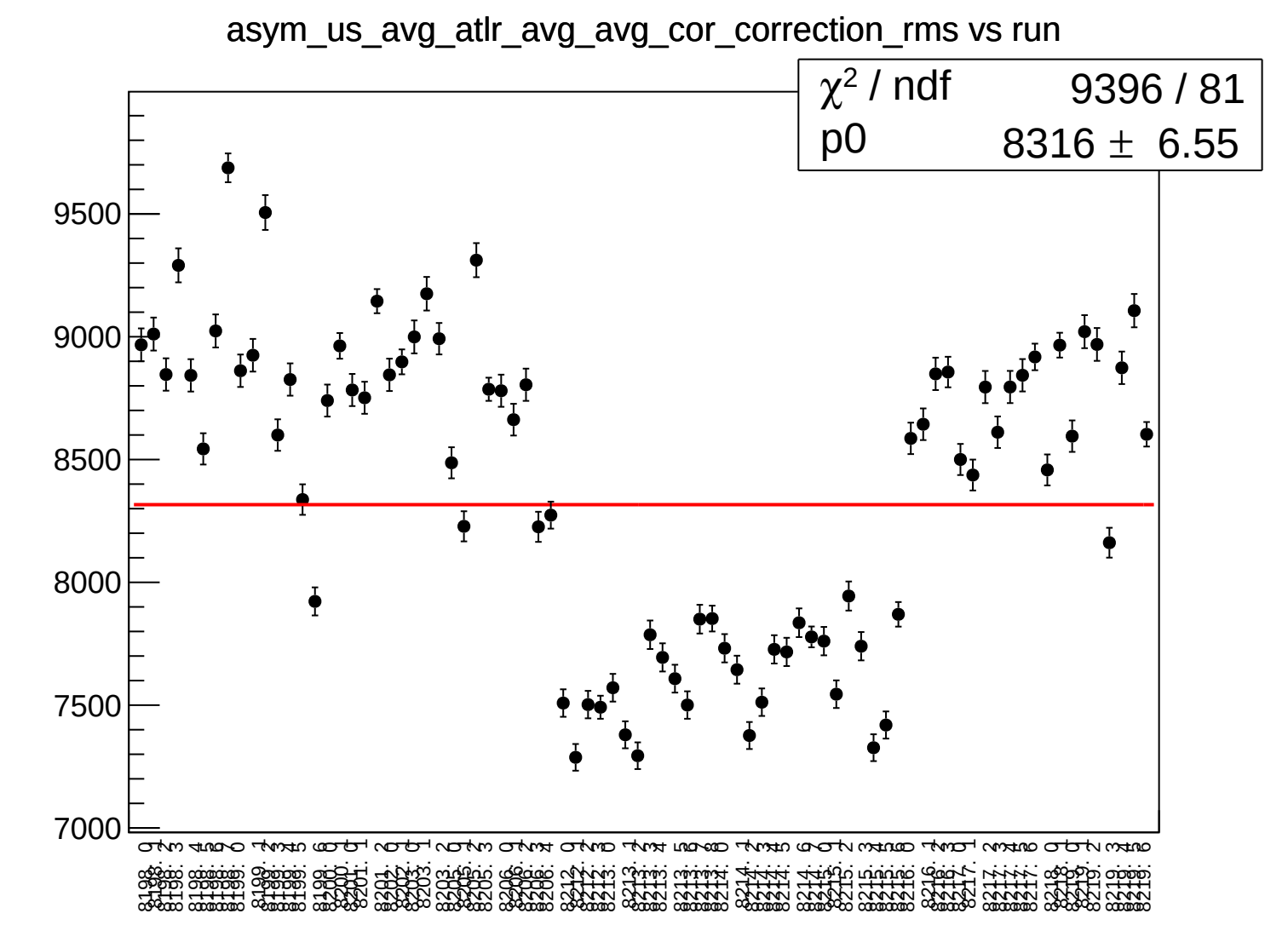

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 62.26 / 81
p0 2373 ± 2000
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 492.2
Std Dev 0
2
1
0
−1
−2

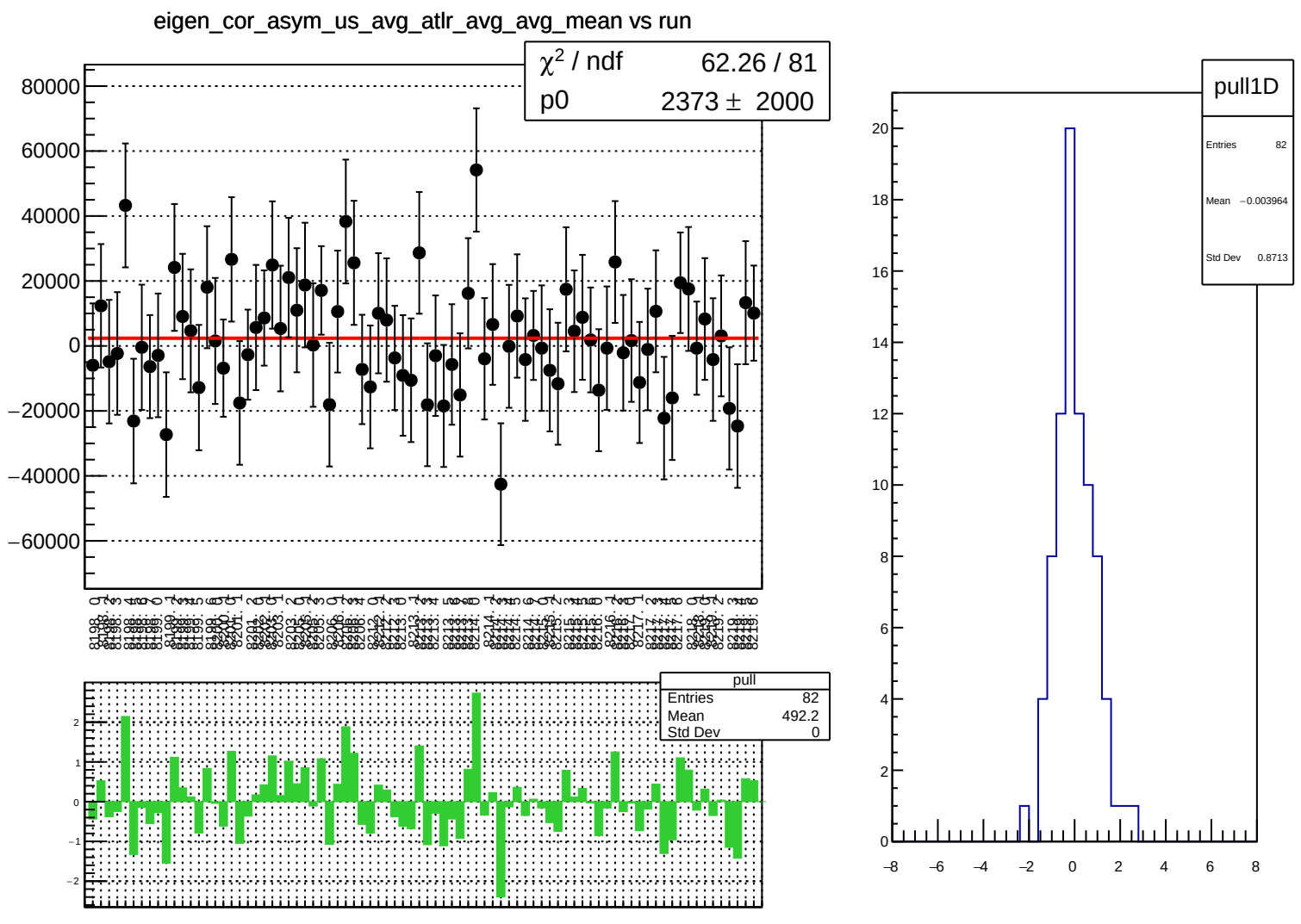

pull1D
Entries 82
Mean −0.003964
Std Dev 0.8713
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

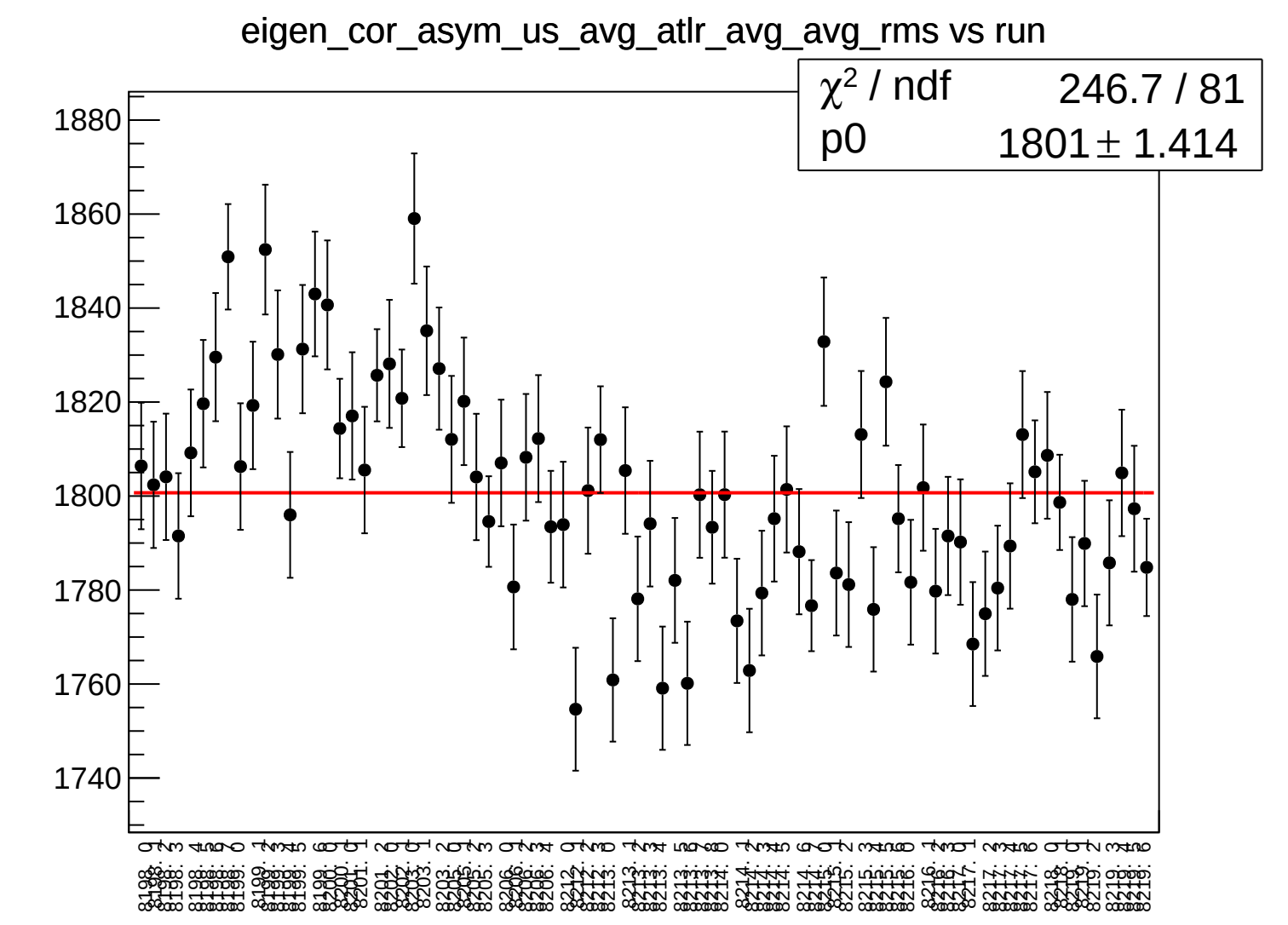

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 246.7 / 81
p0 1801 ± 1.414
1880
1860
1840
1820
1800
1780
1760
1740

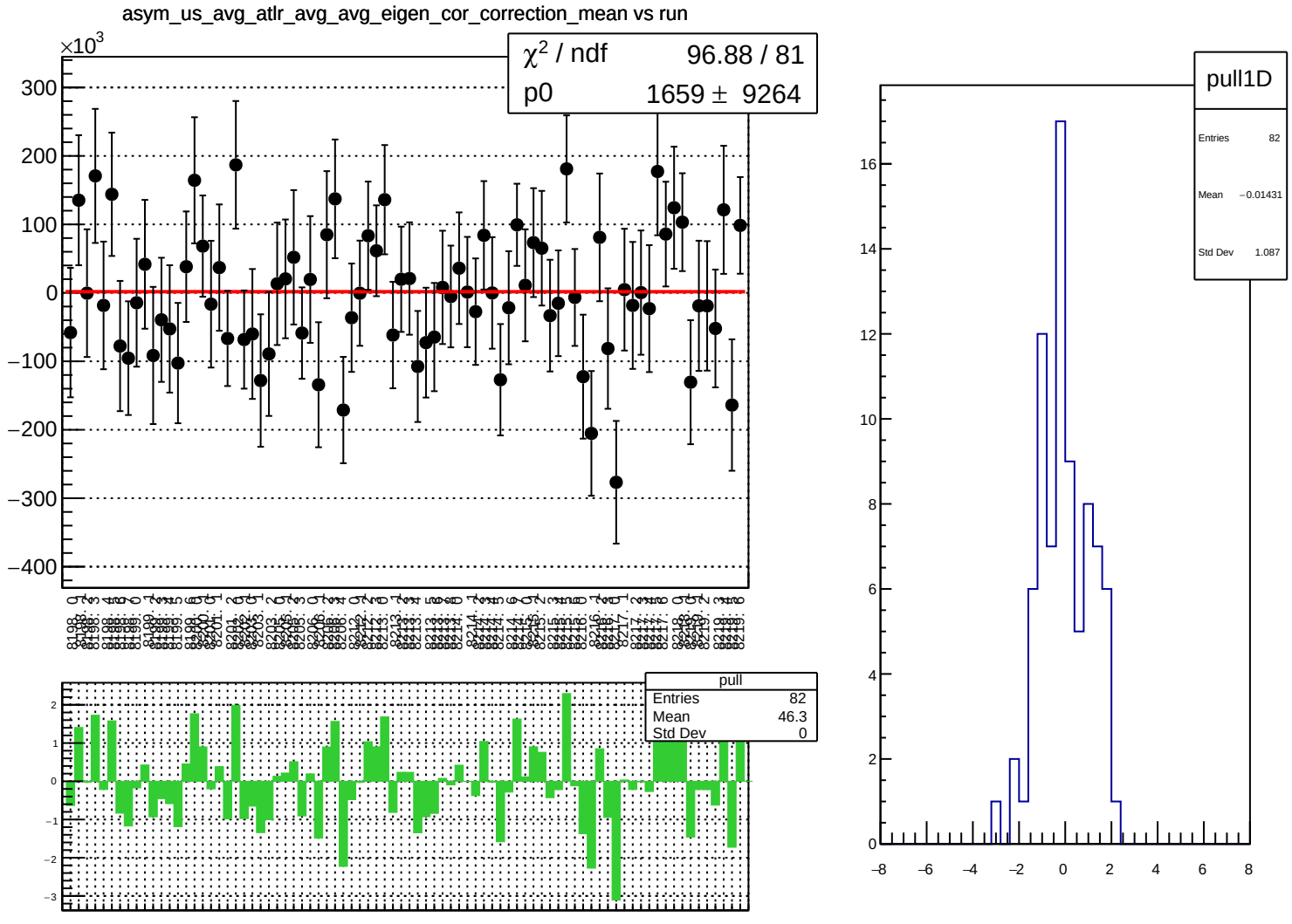

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.88 / 81
p0 1659 ± 9264
pull
Entries 82
Mean 46.3
Std Dev 0

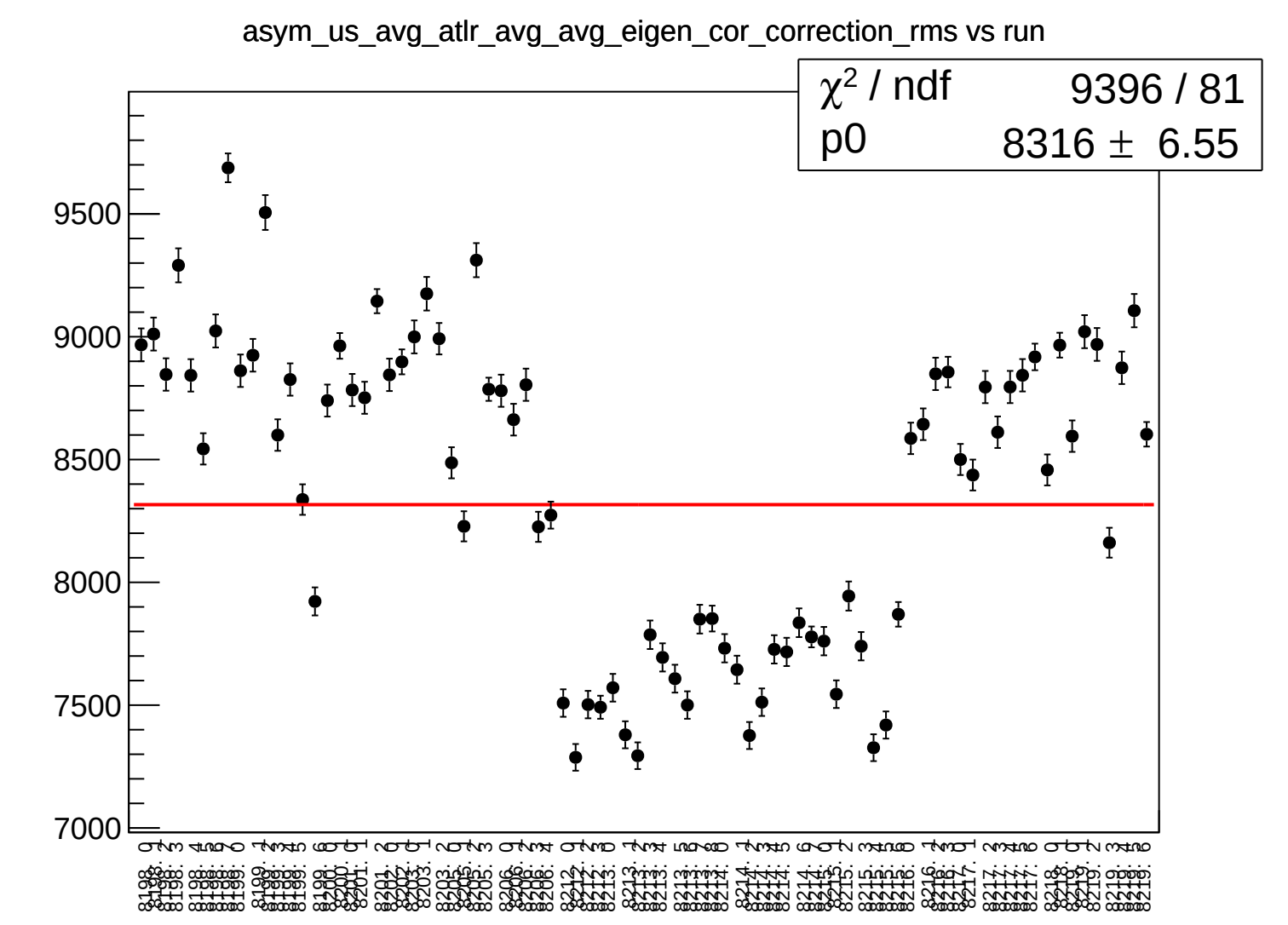

pull1D
Entries 82
Mean −0.01431
Std Dev 1.087

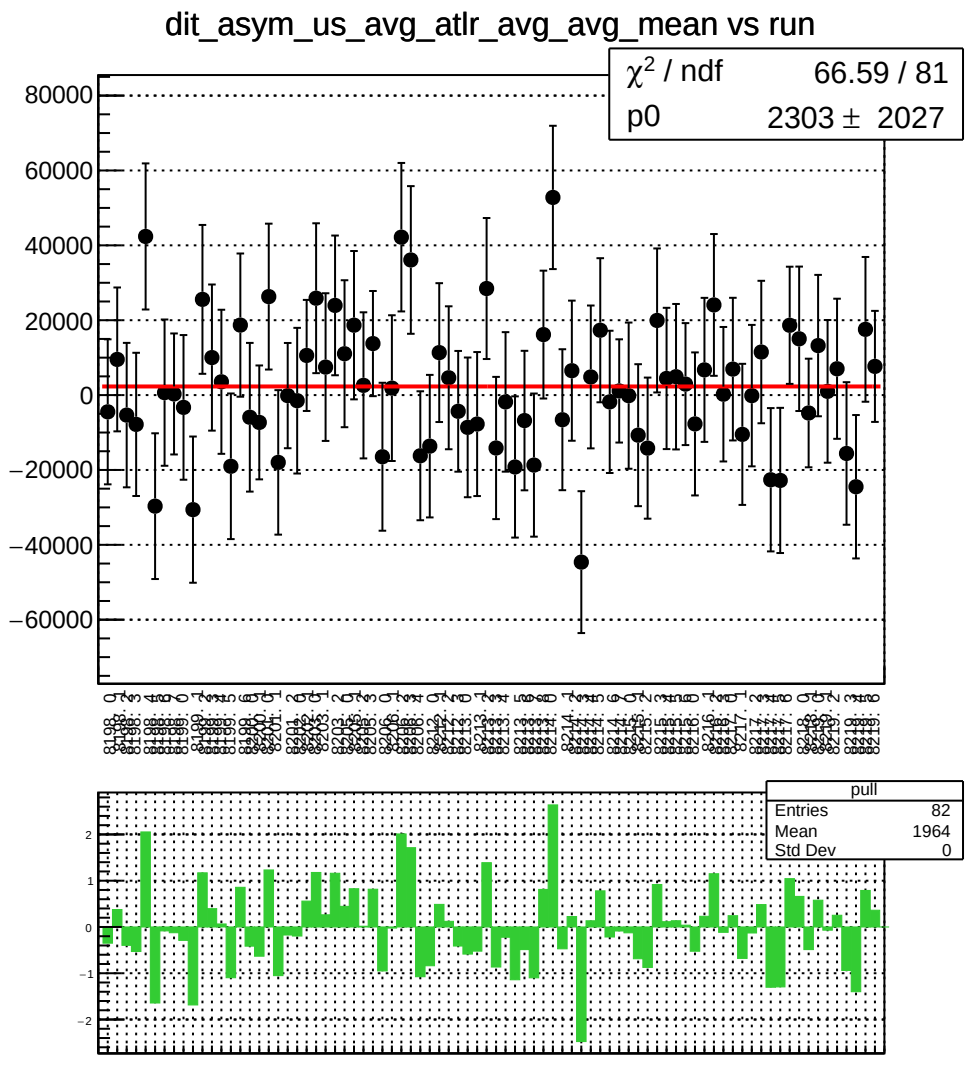

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 9396 / 81
p0 8316 ± 6.55
9500
9000
8500
8000
7500
7000

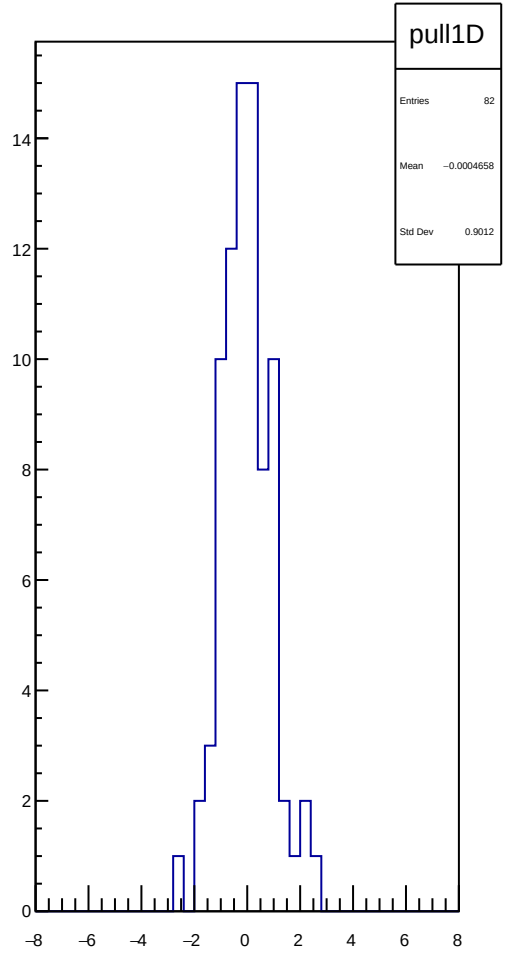

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 62.26 / 81
p0 2373 ± 2000
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 492.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.003964
Std Dev 0.8713
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

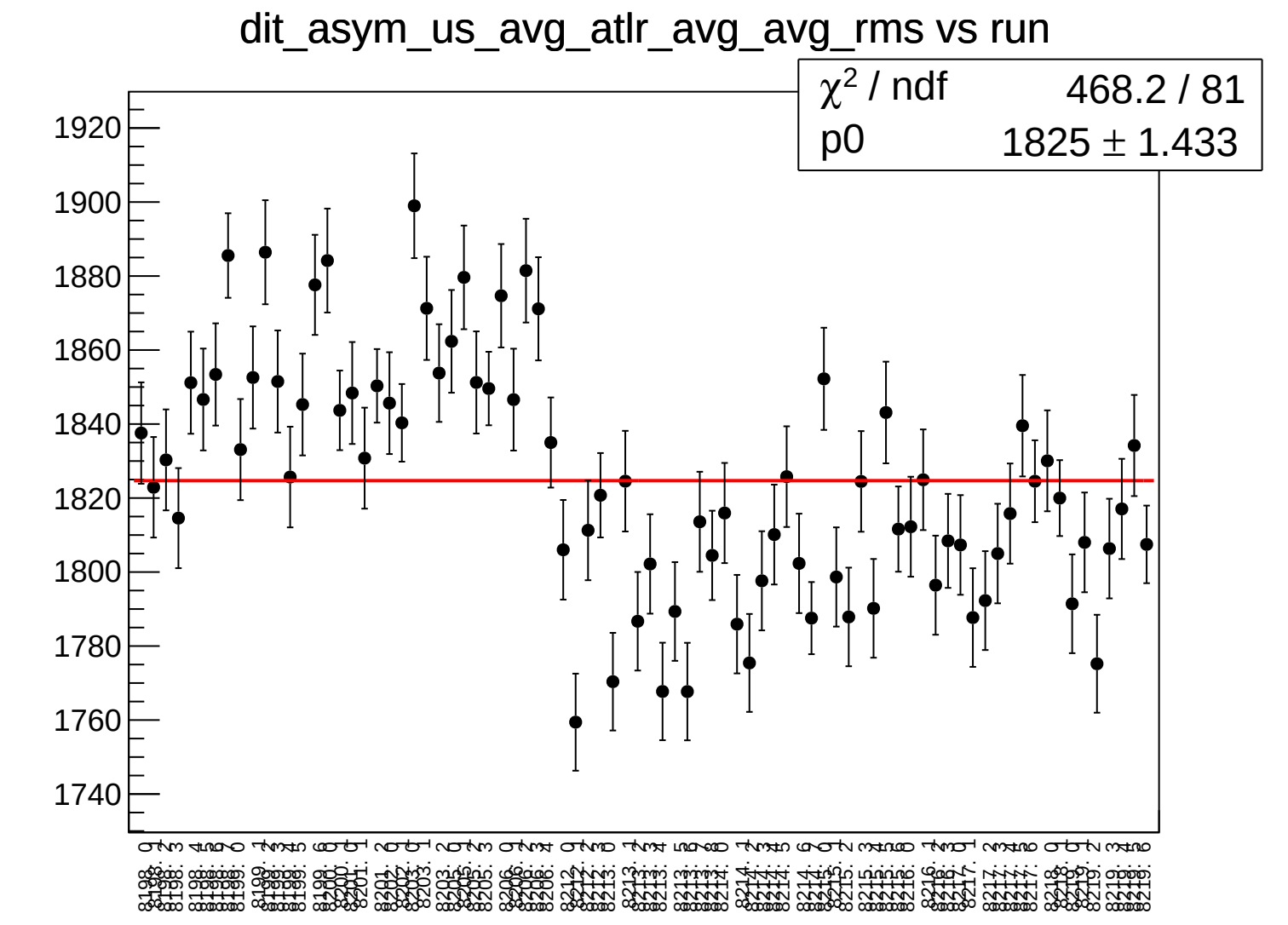

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 246.7 / 81
p0 1801 ± 1.414
1880
1860
1840
1820
1800
1780
1760
1740

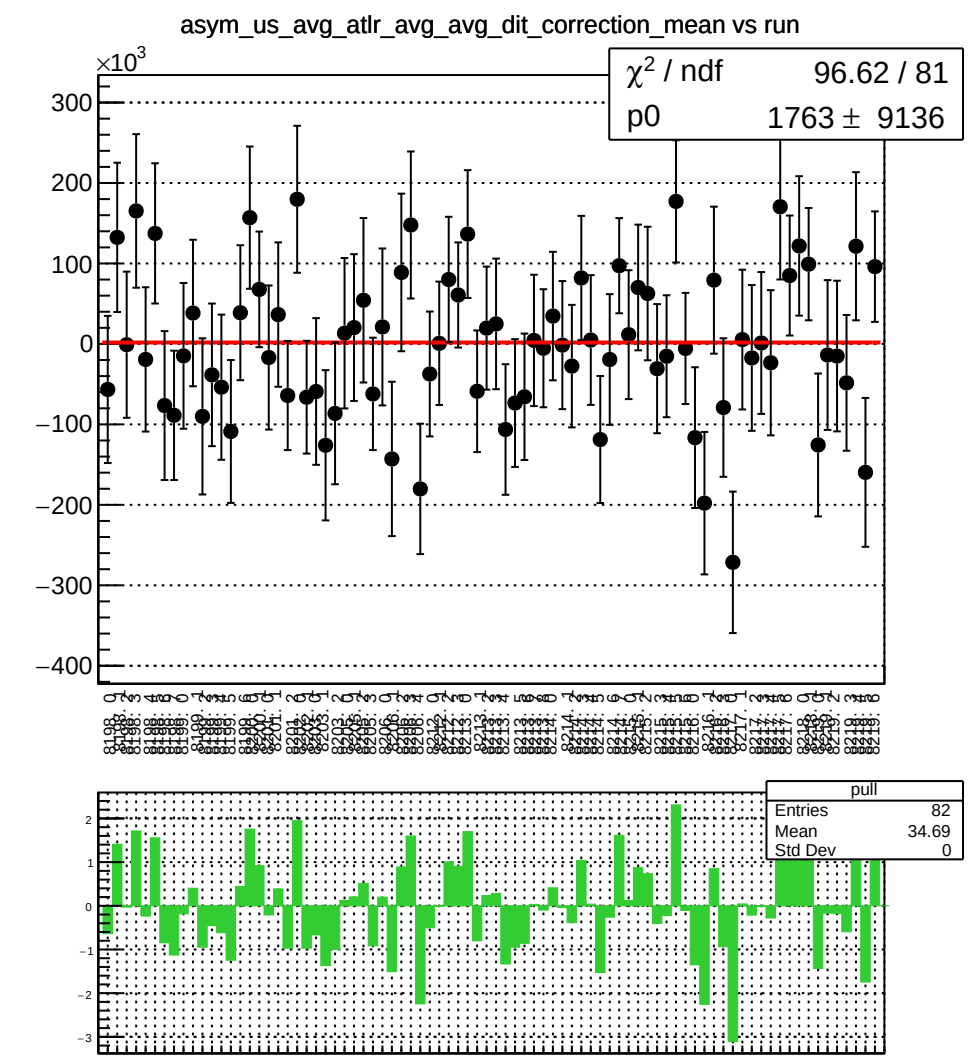

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.88 / 81
p0 1659 ± 9264
pull
Entries 82
Mean 46.3
Std Dev 0
pull1D
Entries 82
Mean −0.01431
Std Dev 1.087

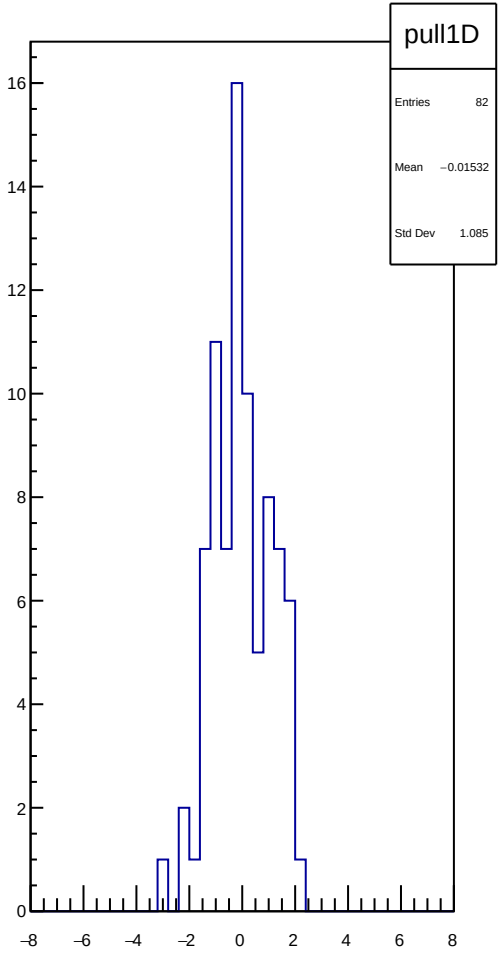

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 9396 / 81
p0 8316 ± 6.55
9500
9000
8500
8000
7500
7000

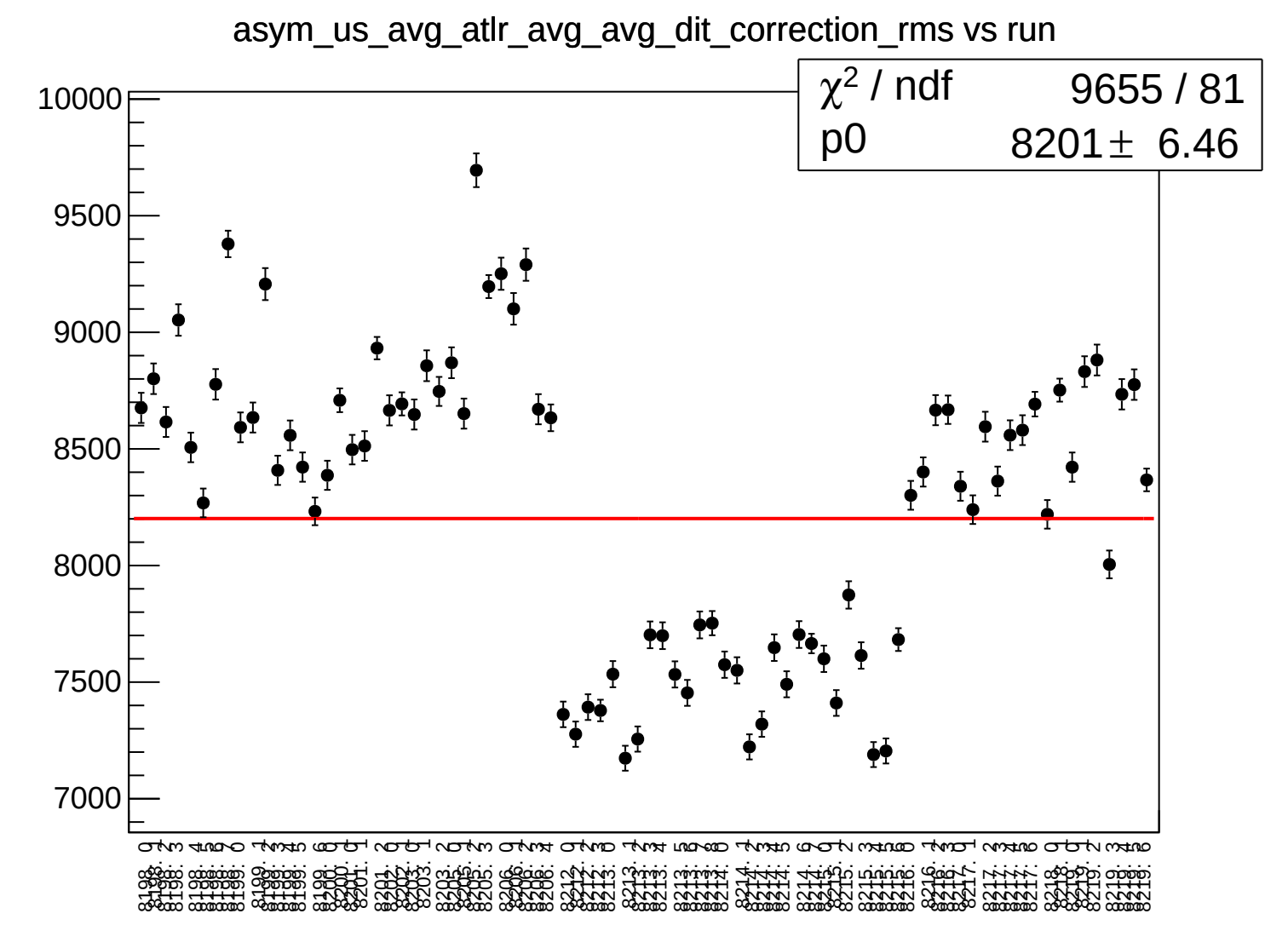

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 66.59 / 81
p0 2303 ± 2027
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 1964
Std Dev 0
2
1
0
−1
−2

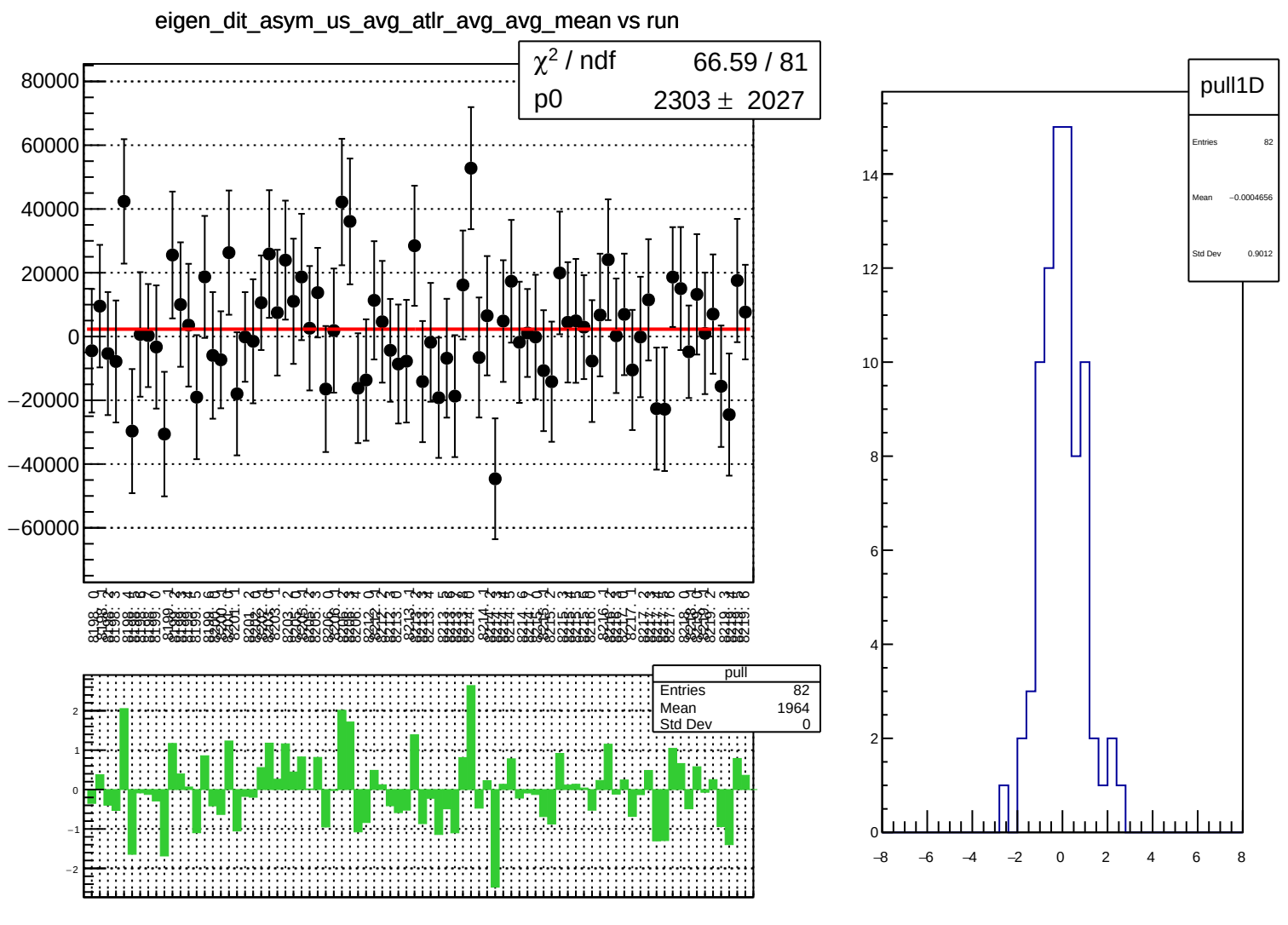

pull1D
Entries 82
Mean −0.0004658
Std Dev 0.9012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

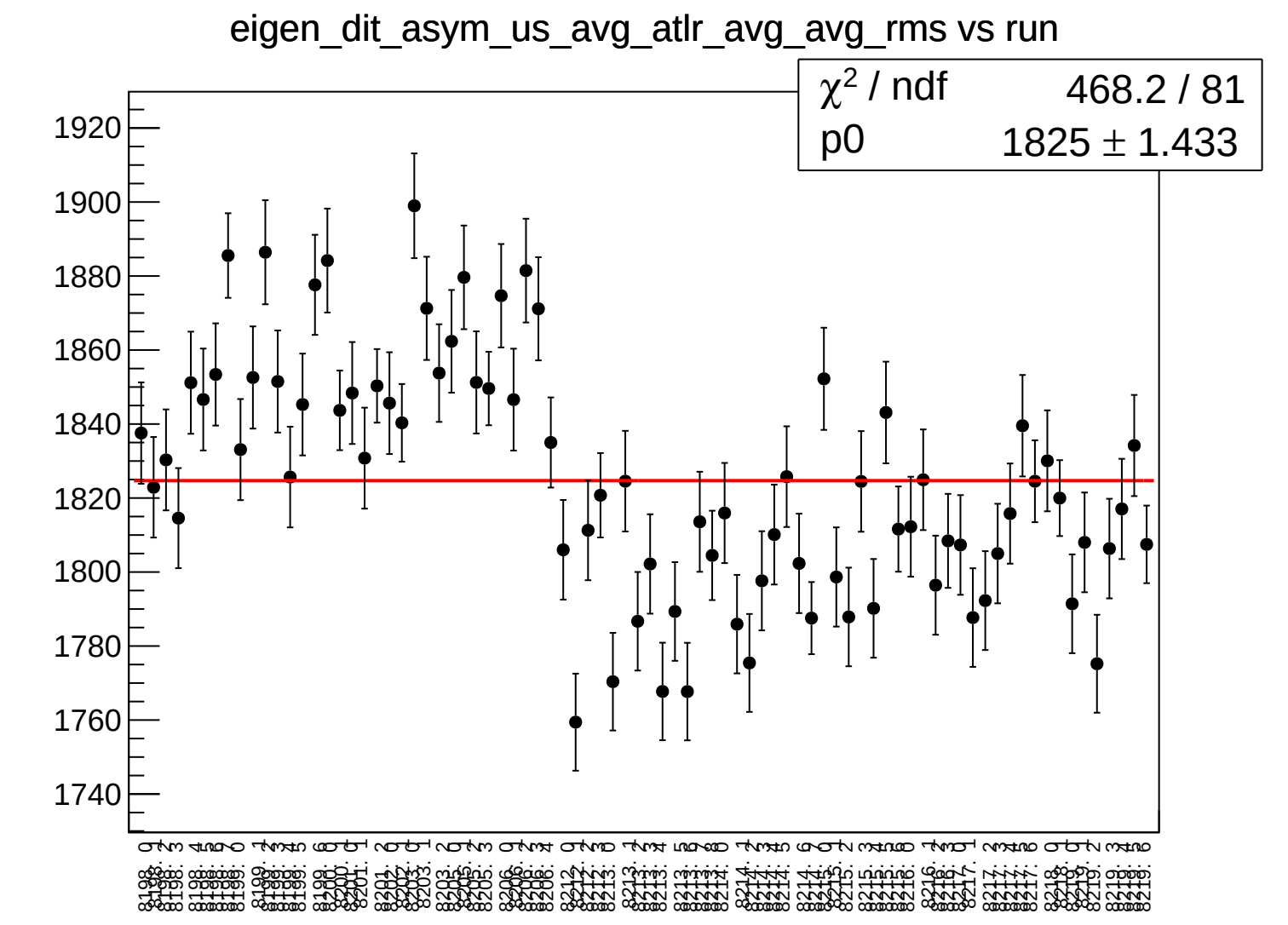

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 468.2 / 81
p0 1825 ± 1.433
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

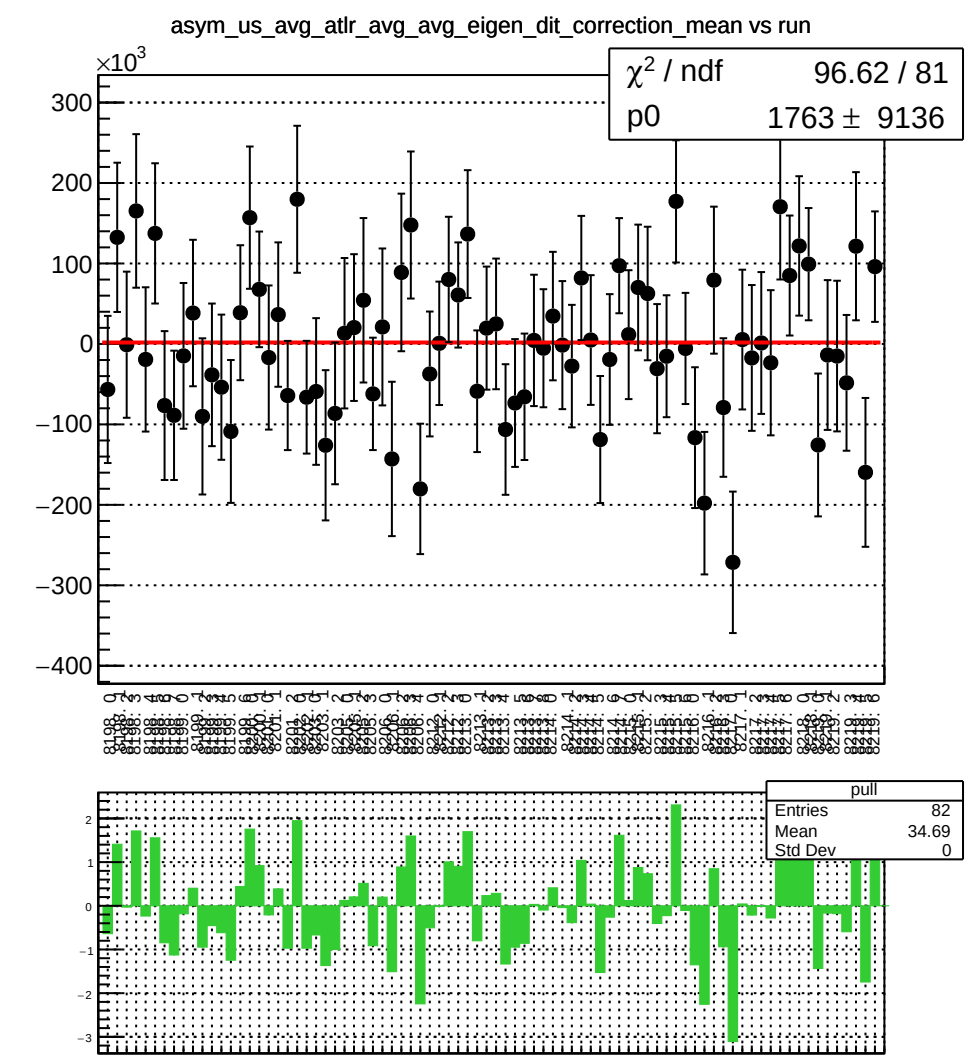

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.62 / 81
p0 1763 ± 9136
pull
Entries 82
Mean 34.69
Std Dev 0

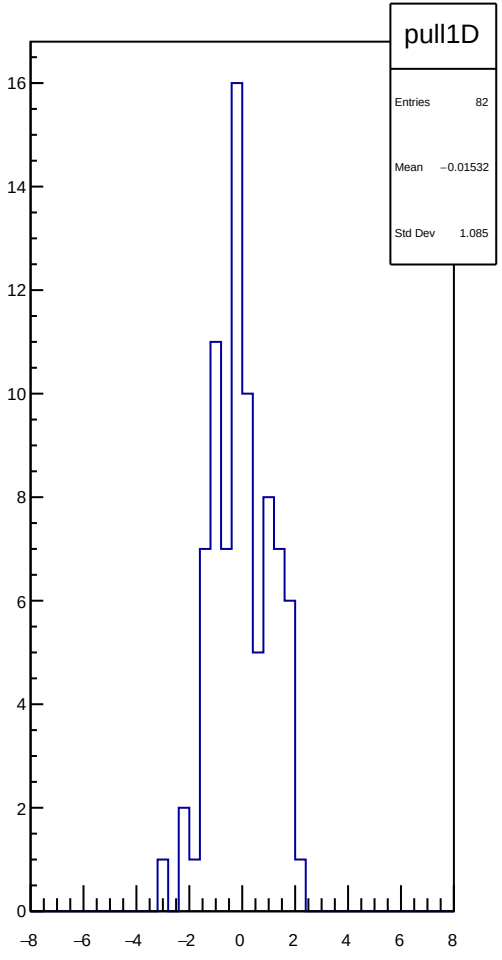

pull1D
Entries 82
Mean −0.01532
Std Dev 1.085

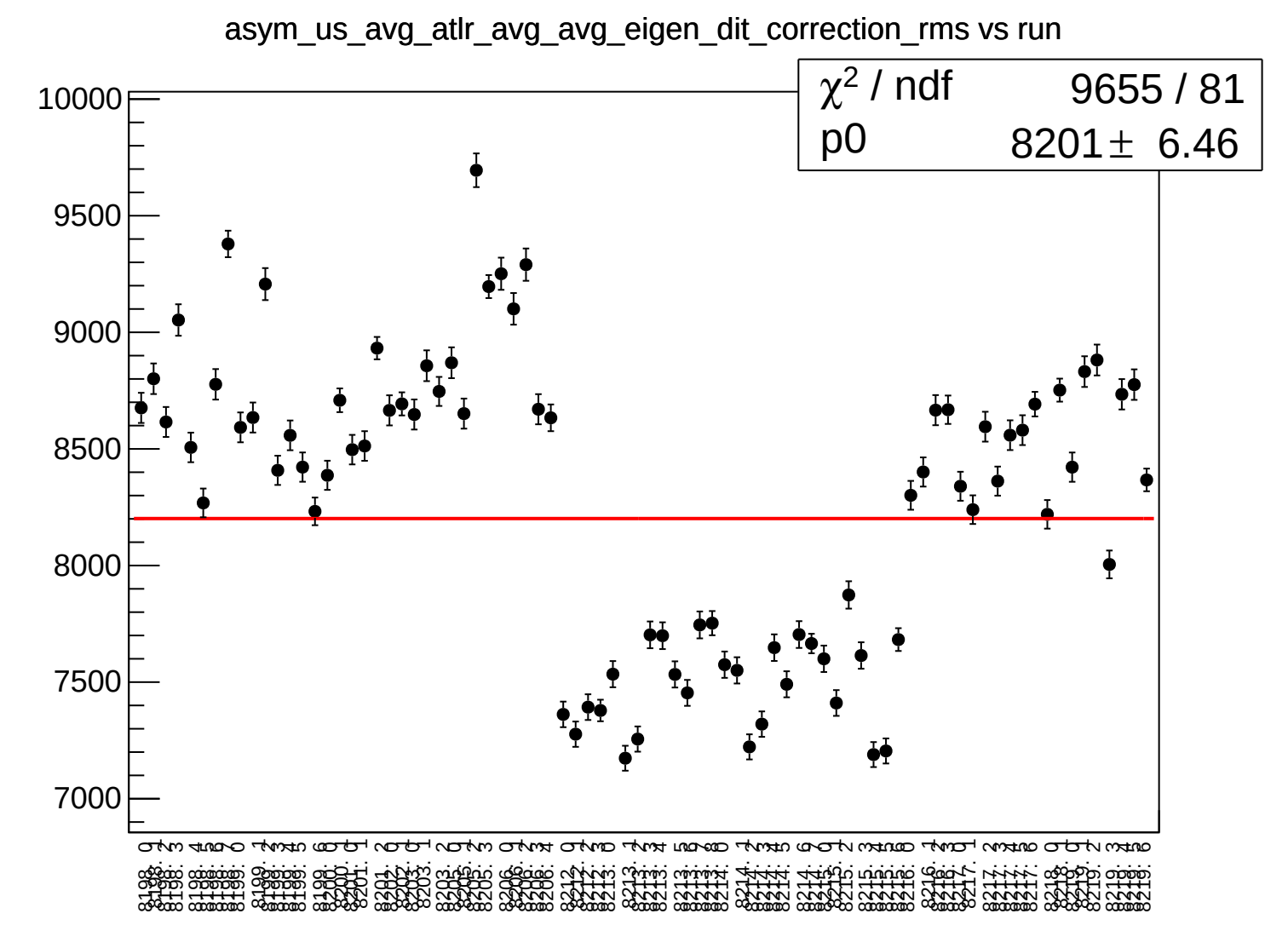

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 9655 / 81
p0 8201 ± 6.46
10000
9500
9000
8500
8000
7500
7000

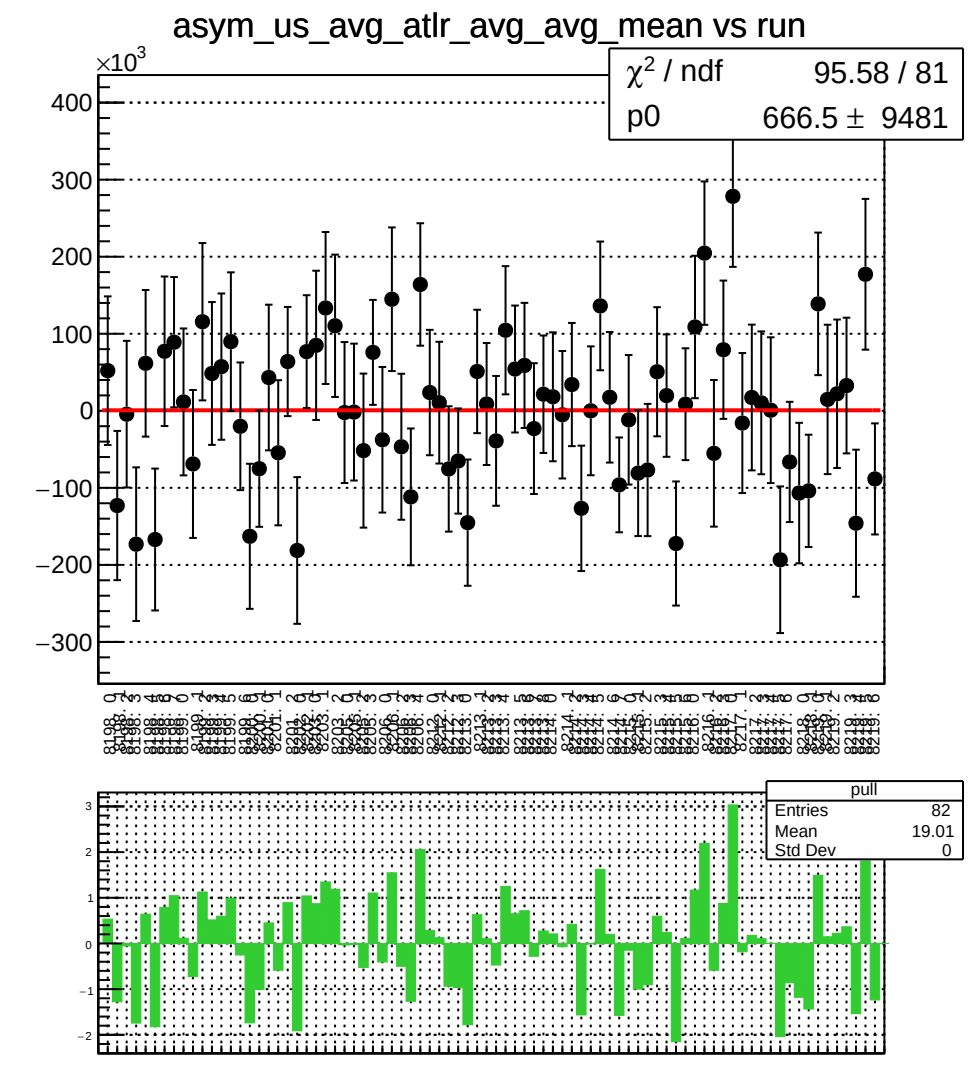

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 66.59 / 81
p0 2303 ± 2027
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 1964
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.0004656
Std Dev 0.9012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

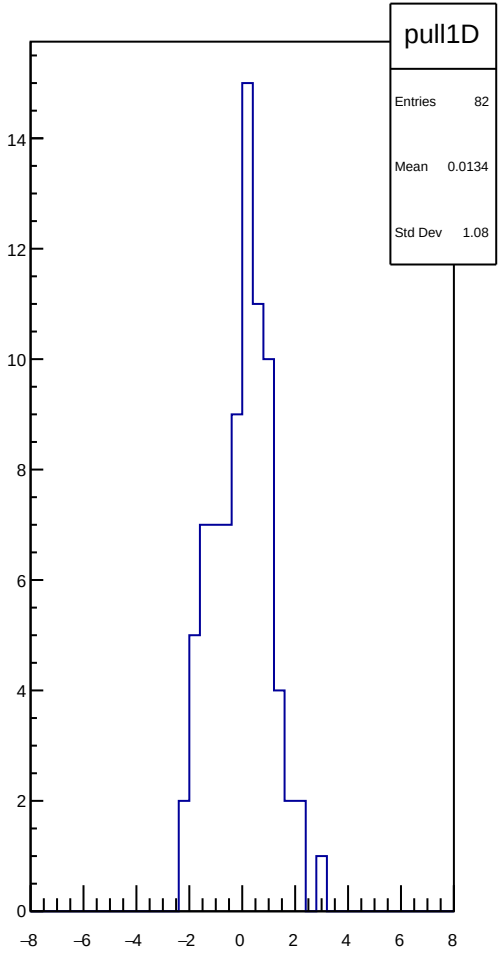

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 468.2 / 81
p0 1825 ± 1.433
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

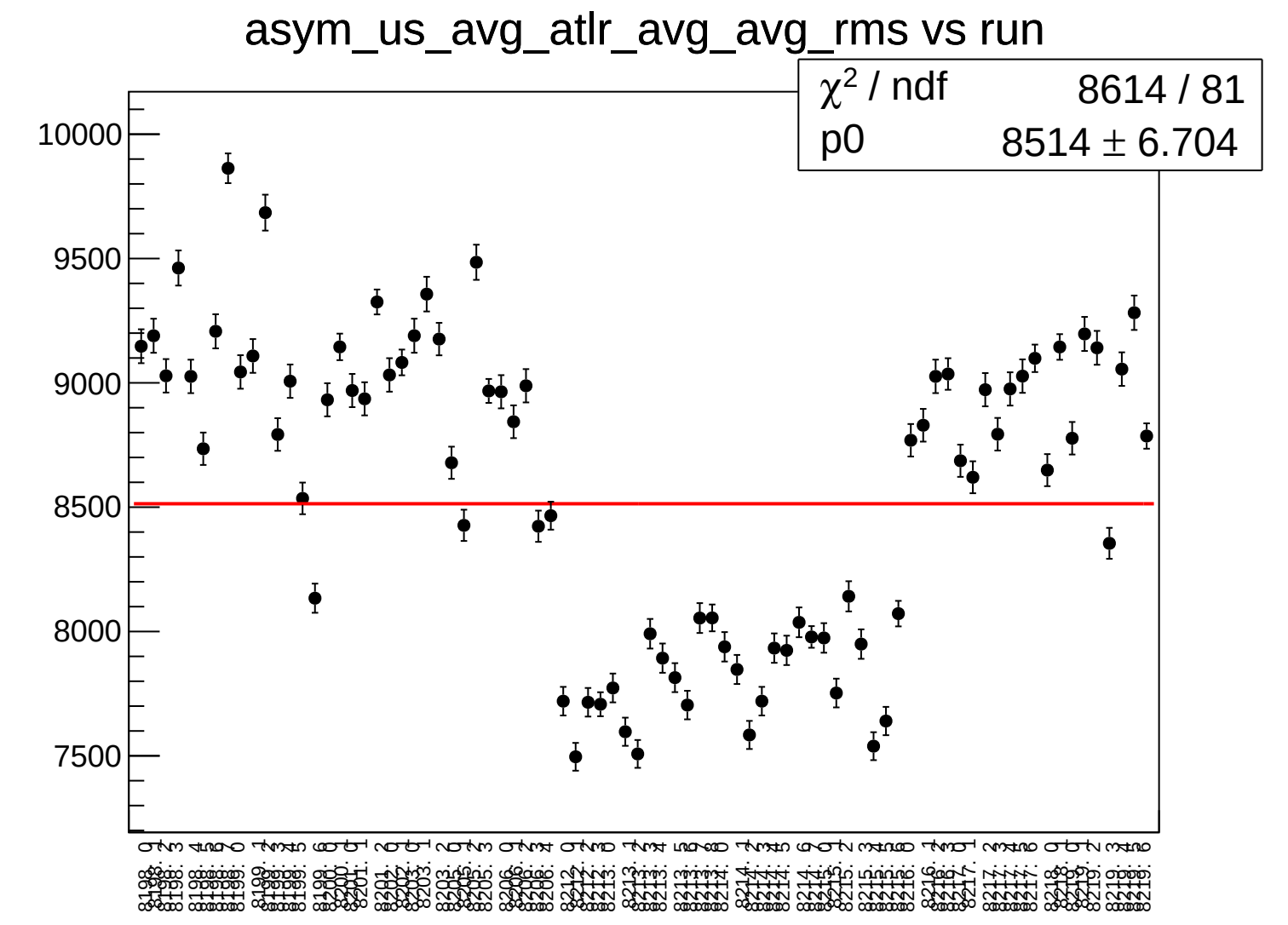

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.62 / 81
p0 1763 ± 9136
pull
Entries 82
Mean 34.69
Std Dev 0

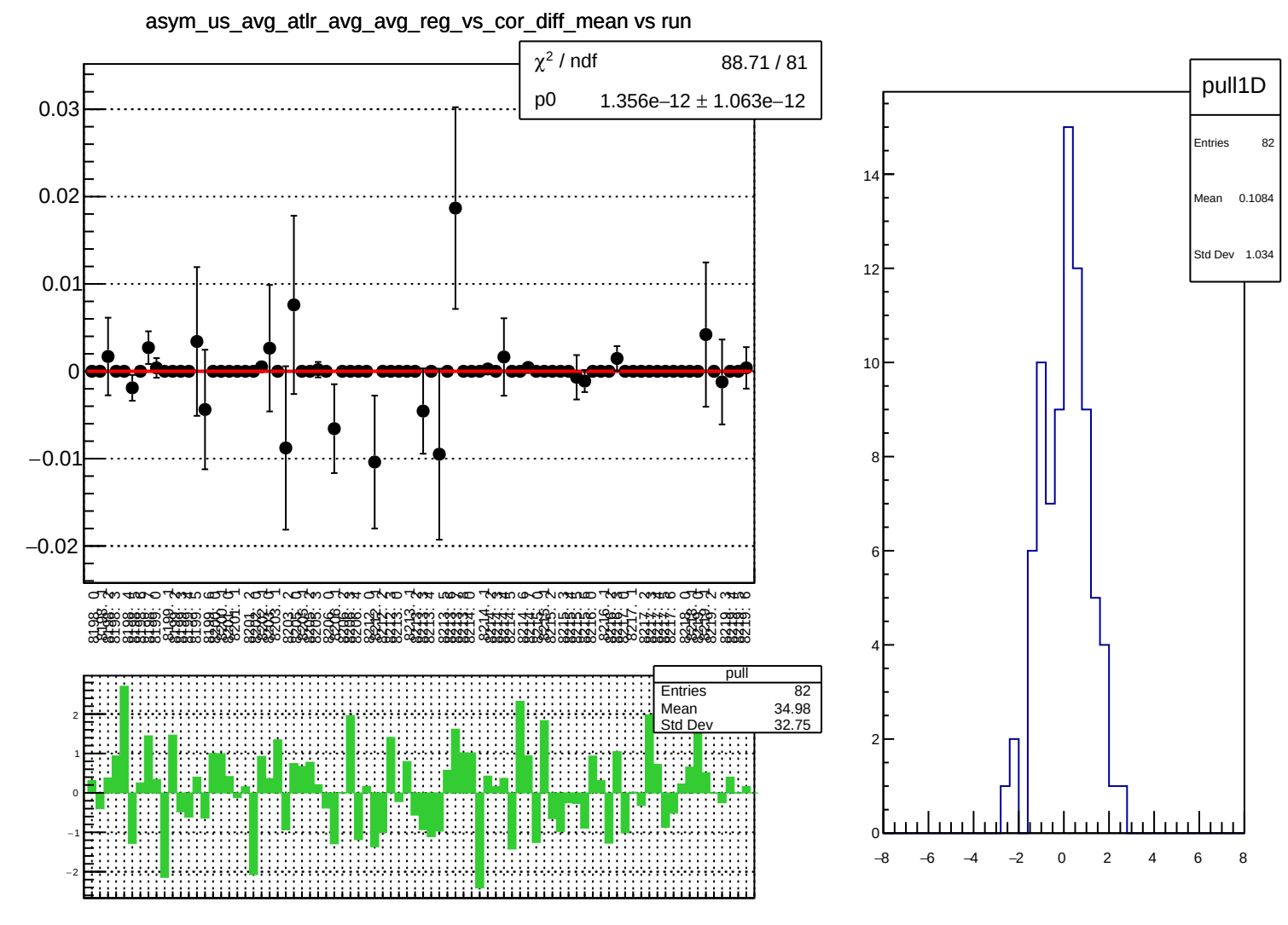

pull1D
Entries 82
Mean −0.01532
Std Dev 1.085

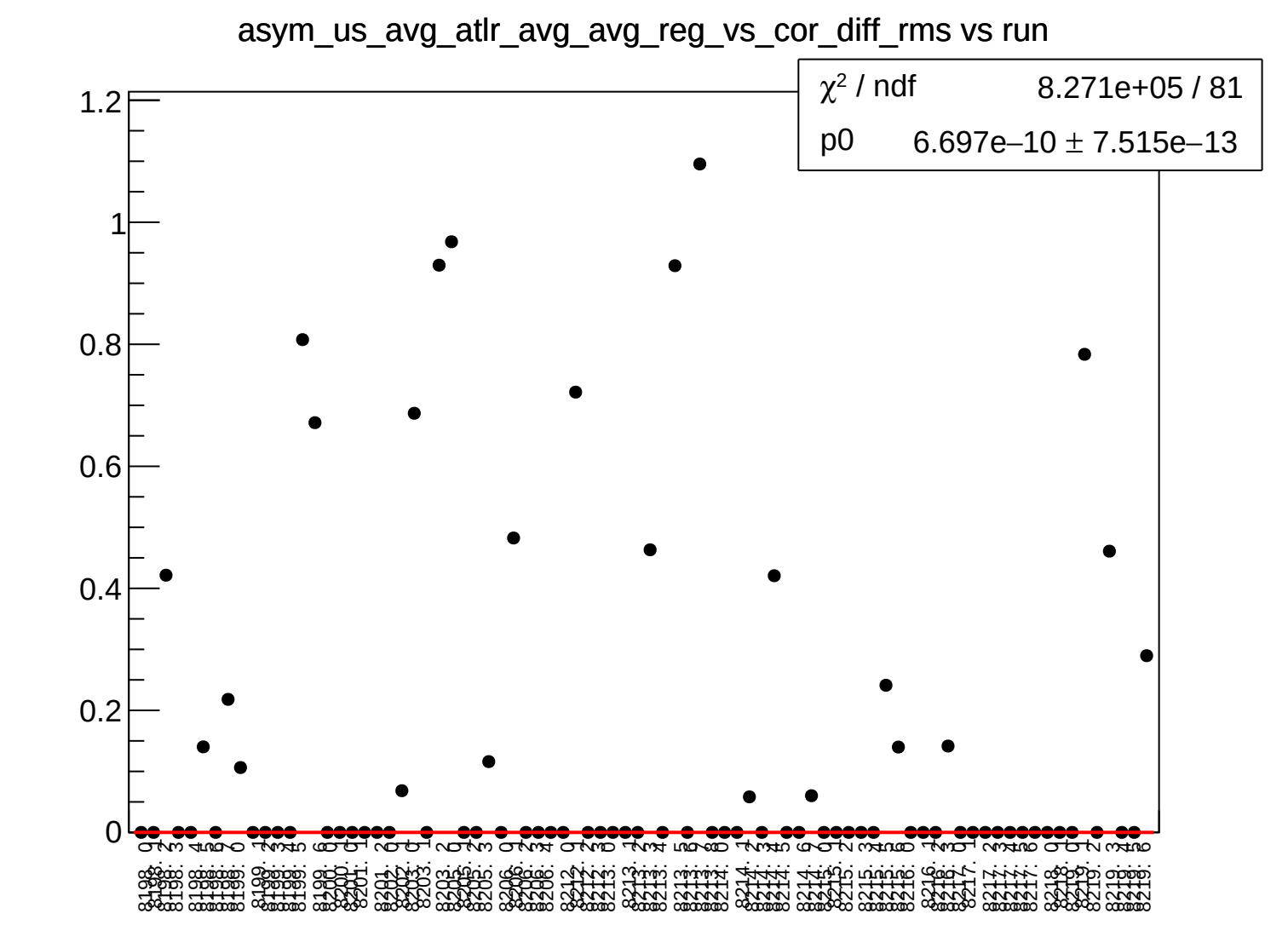

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 9655 / 81
p0 8201 ± 6.46
10000
9500
9000
8500
8000
7500
7000

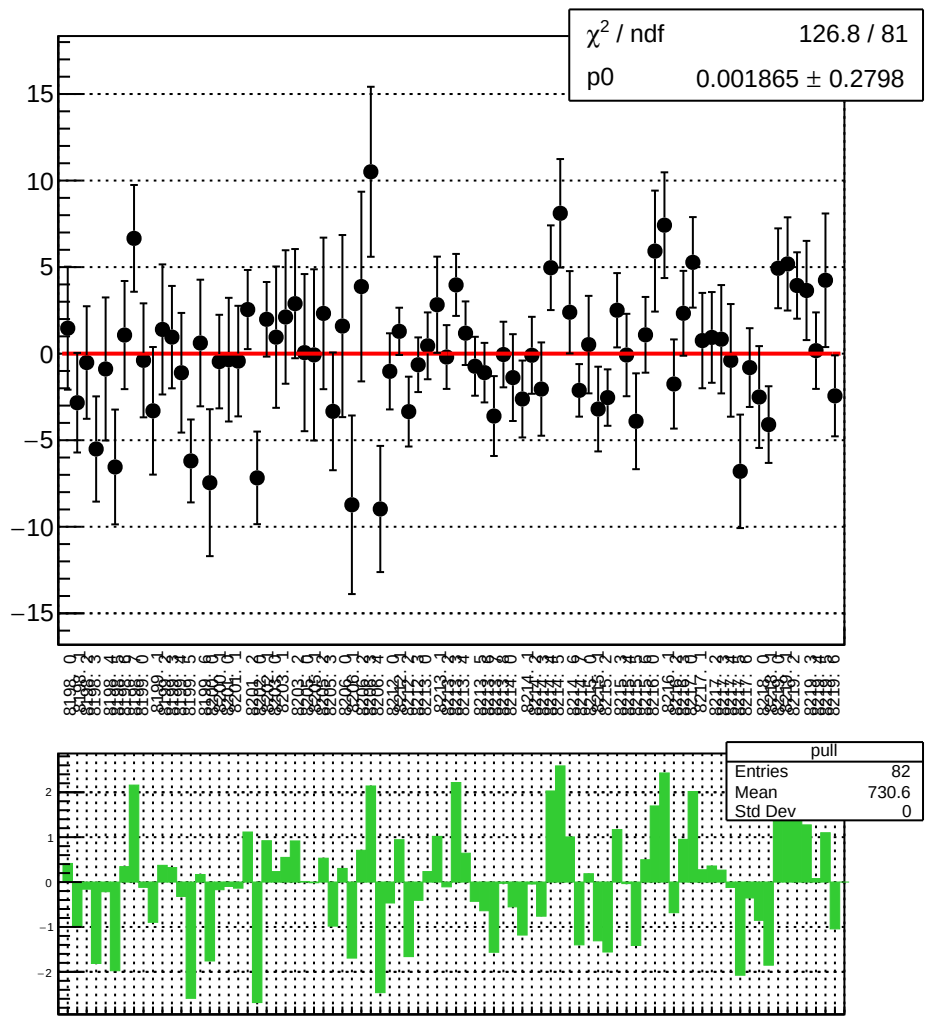

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 95.58 / 81
p0 666.5 ± 9481
pull
Entries 82
Mean 19.01
Std Dev 0

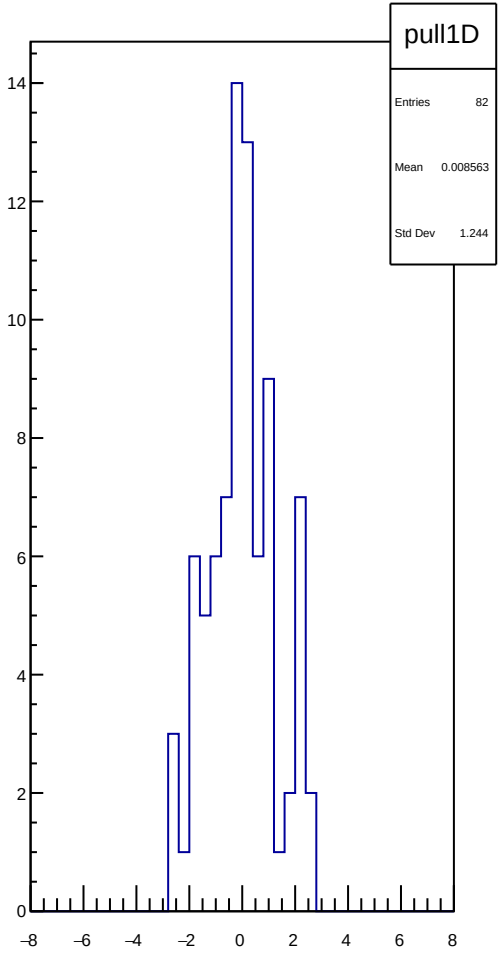

pull1D
Entries 82
Mean 0.0134
Std Dev 1.08

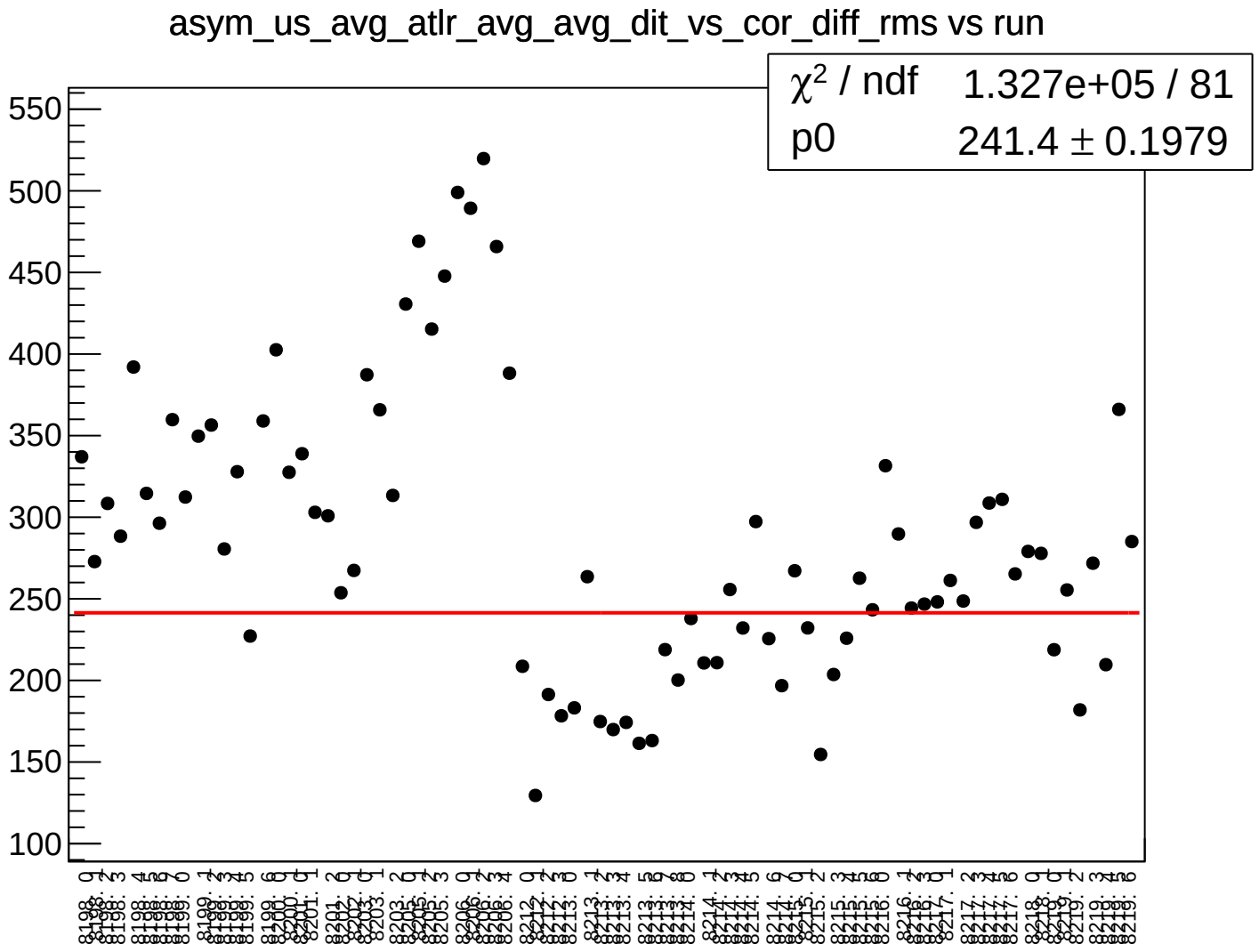

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 8614 / 81
p0 8514 ± 6.704
10000
9500
9000
8500
8000
7500

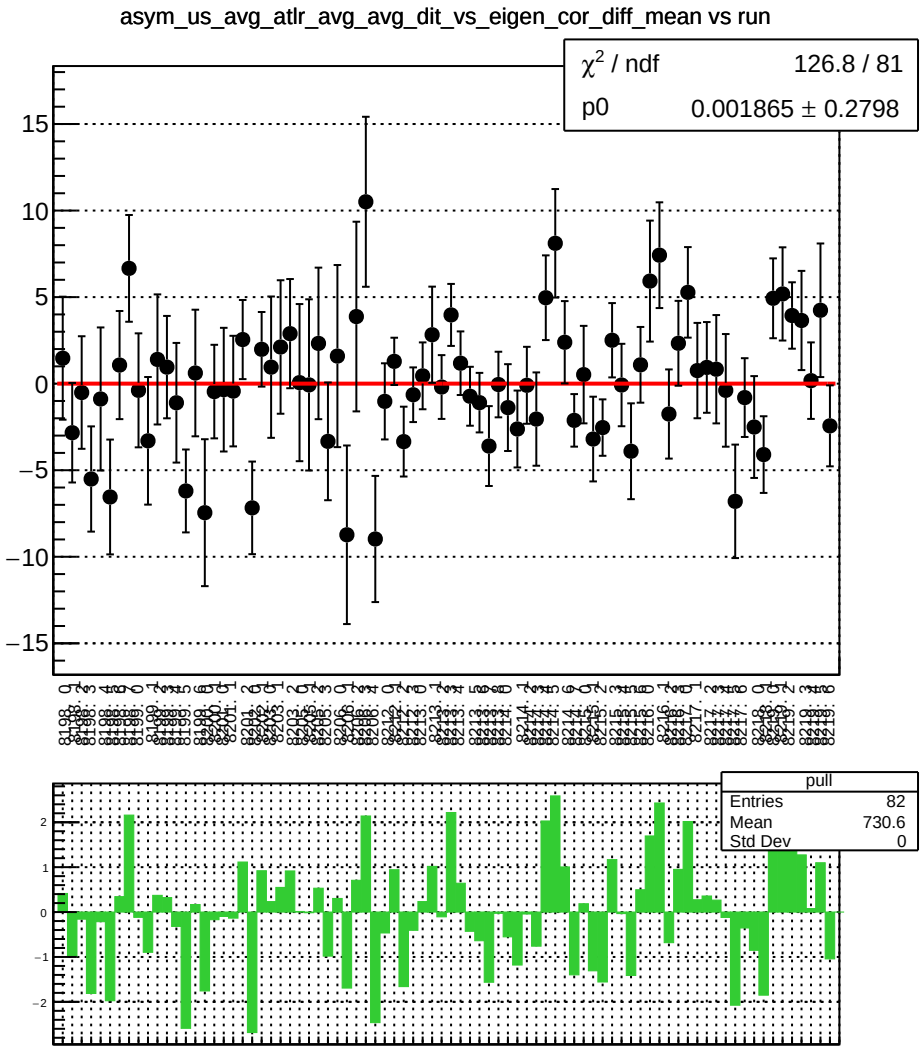

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.71 / 81
p0 1.356e−12 ± 1.063e−12
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean 34.98
Std Dev 32.75
pull1D
Entries 82
Mean 0.1084
Std Dev 1.034

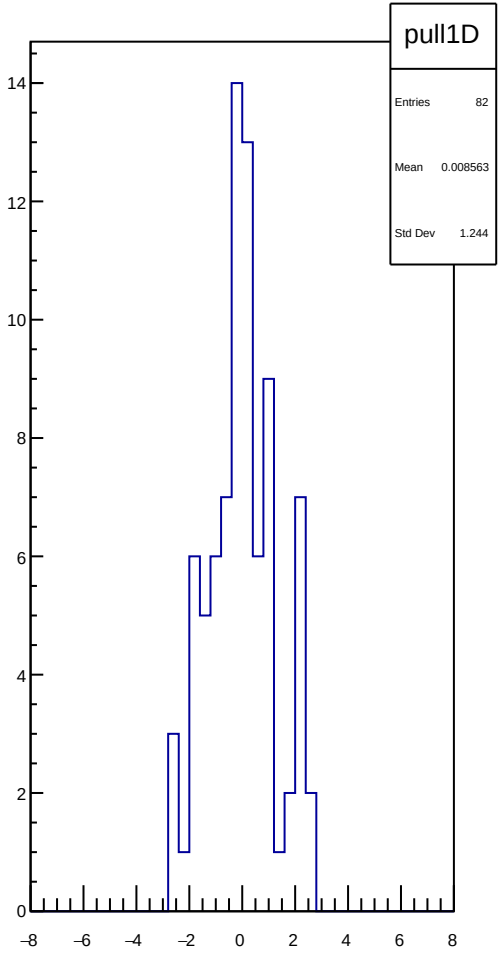

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.271e+05 / 81
p0 6.697e−10 ± 7.515e−13
1.2
1
0.8
0.6
0.4
0.2
0

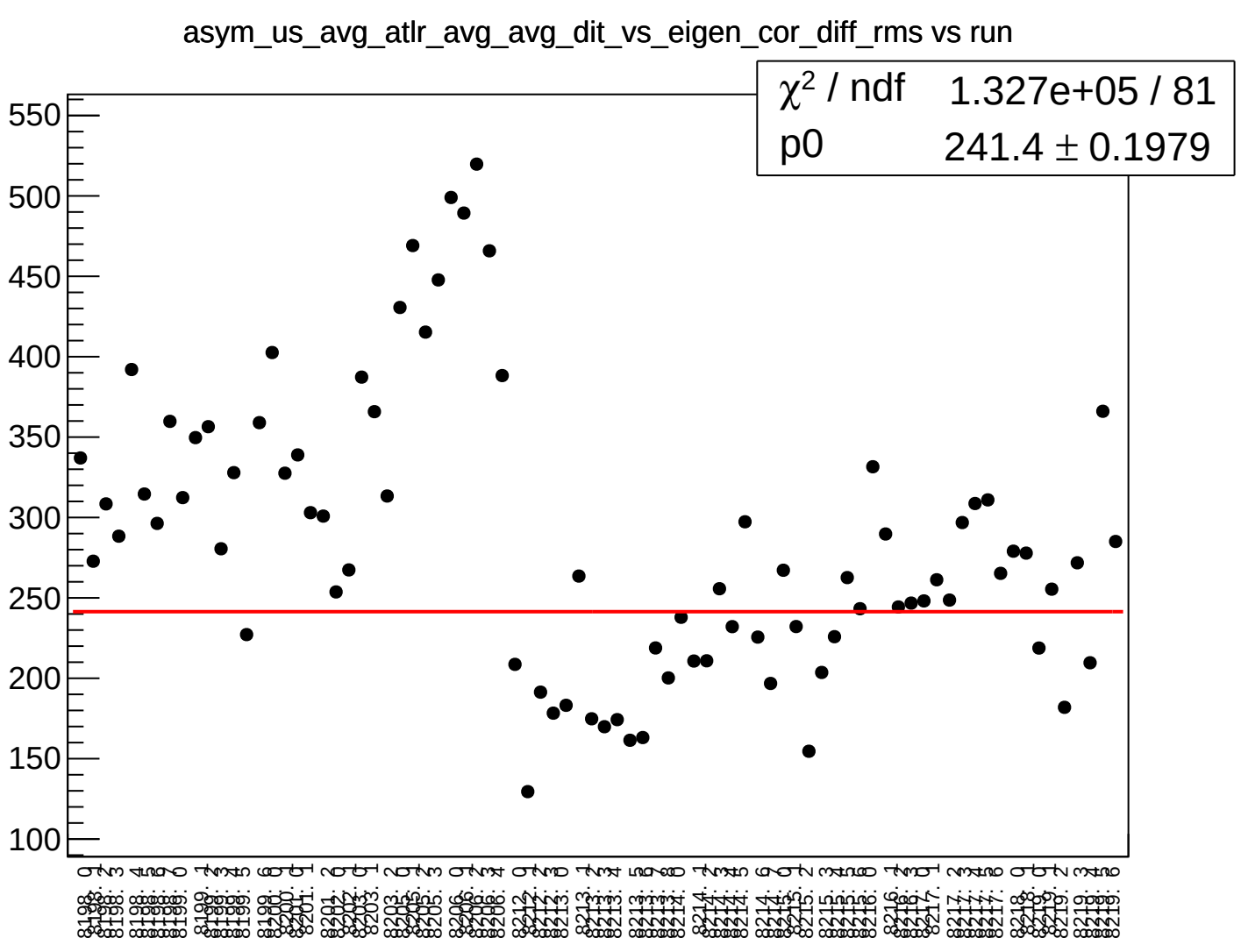

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 126.8 / 81
p0 0.001865 ± 0.2798
pull
Entries 82
Mean 730.6
Std Dev 0

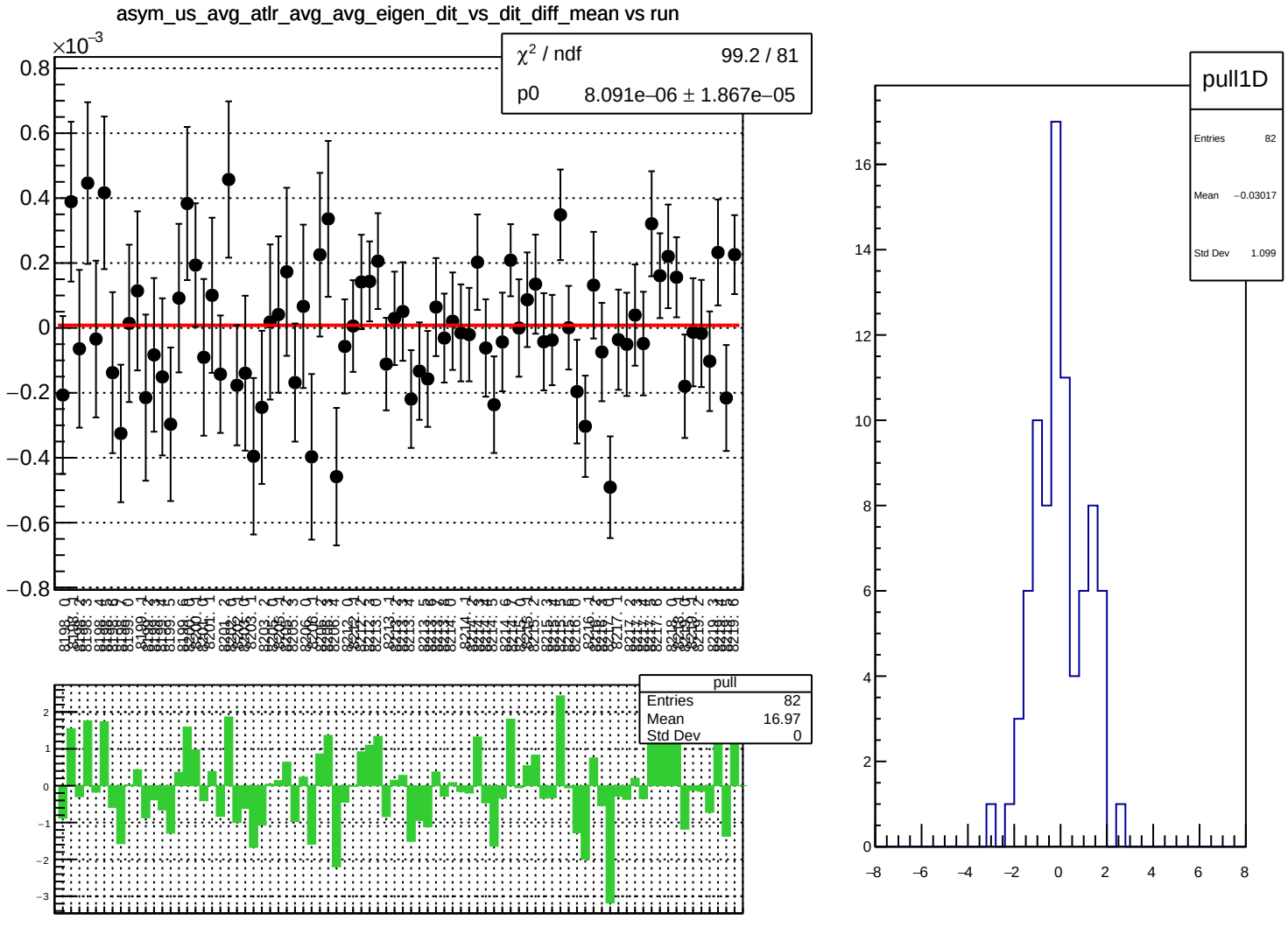

pull1D
Entries 82
Mean 0.008563
Std Dev 1.244

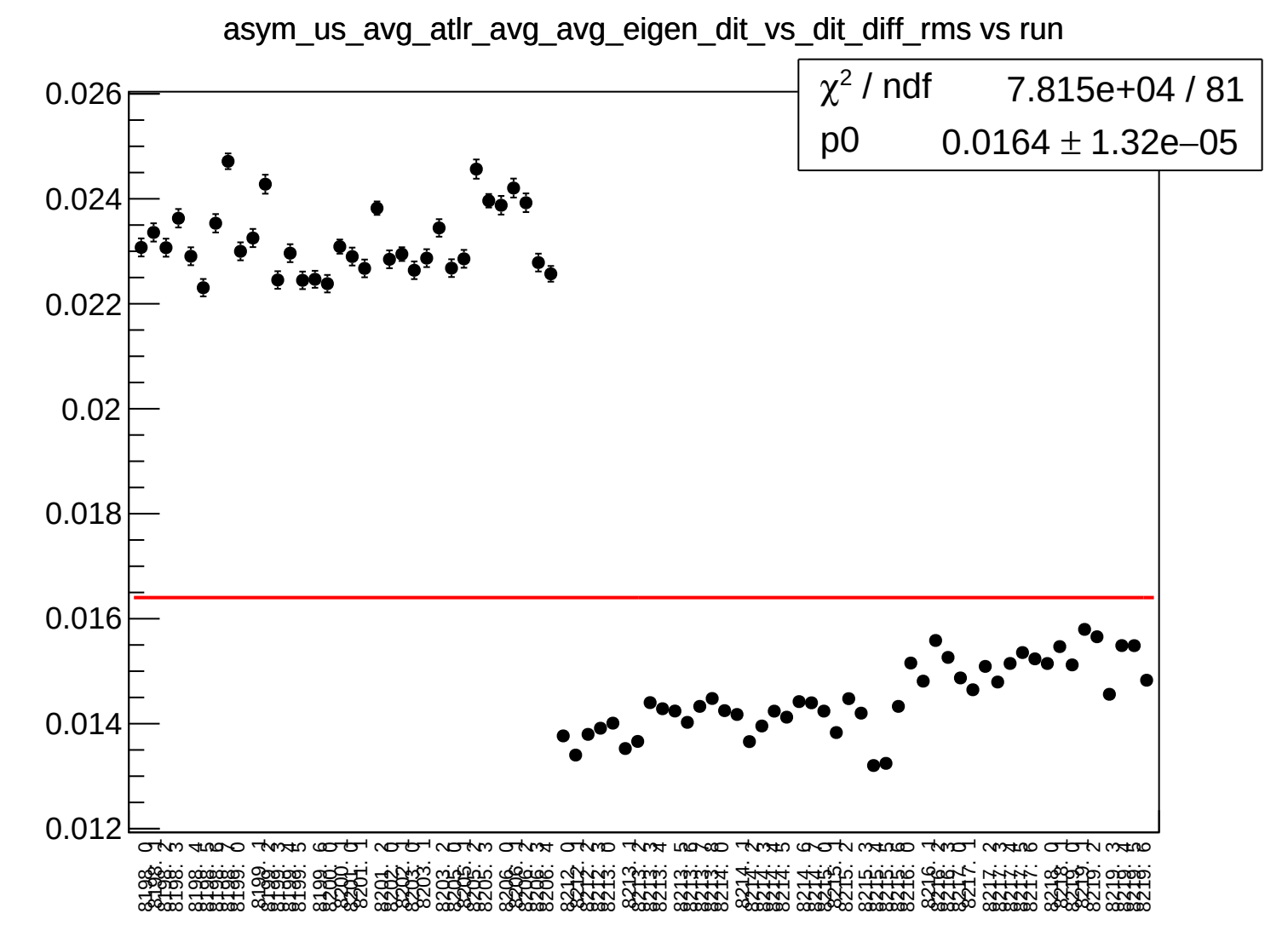

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.327e+05 / 81
p0 241.4 ± 0.1979
550
500
450
400
350
300
250
200
150
100

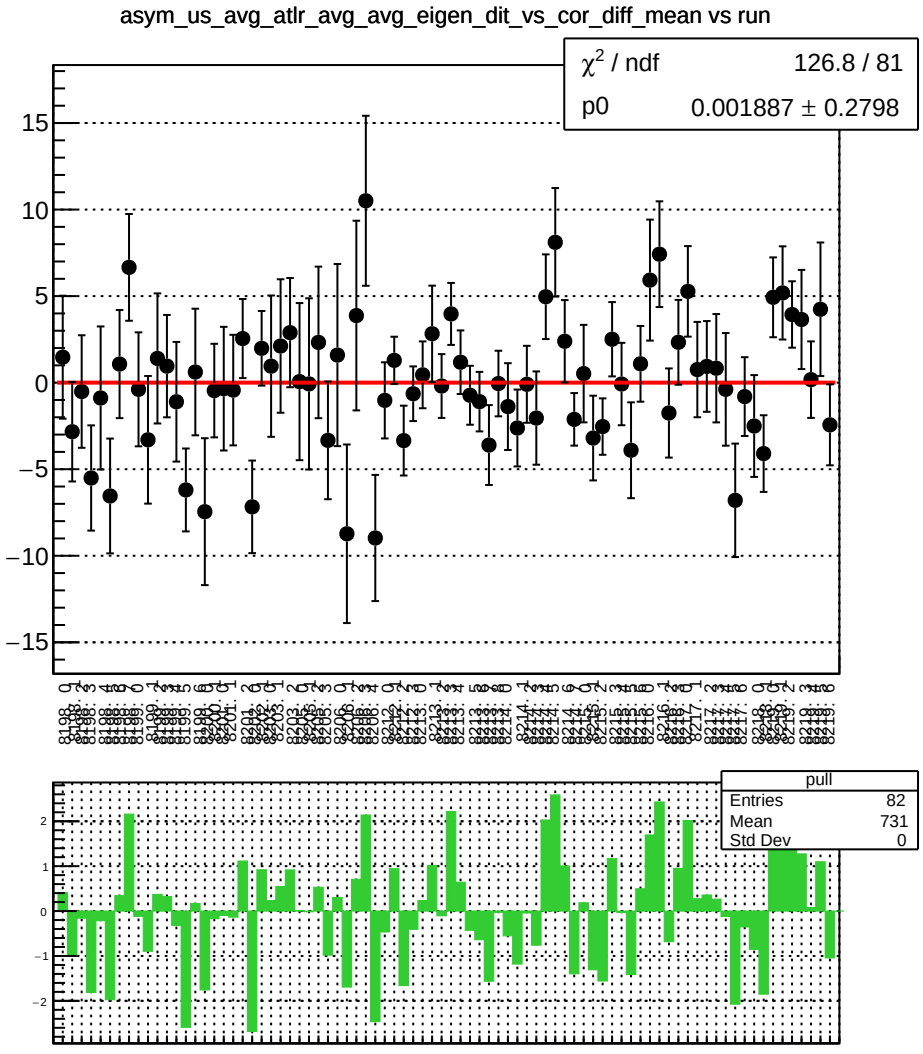

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.8 / 81
p0 0.001865 ± 0.2798
pull
Entries 82
Mean 730.6
Std Dev 0

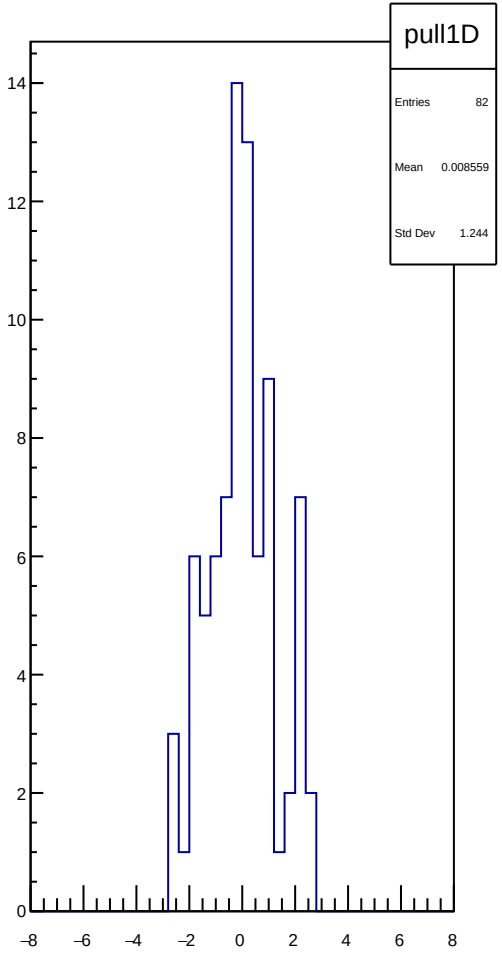

pull1D
Entries 82
Mean 0.008563
Std Dev 1.244

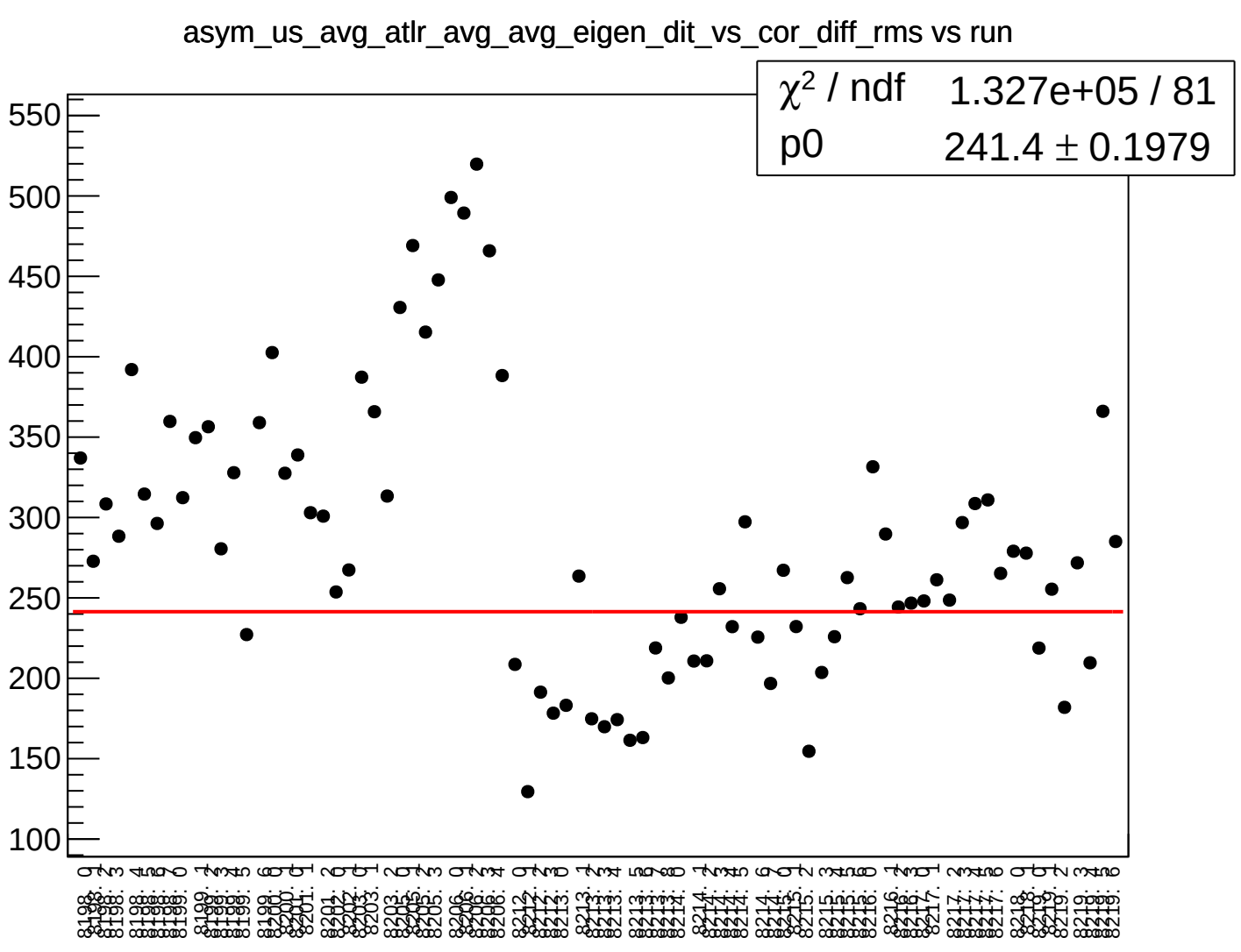

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.327e+05 / 81
p0 241.4 ± 0.1979
550
500
450
400
350
300
250
200
150
100

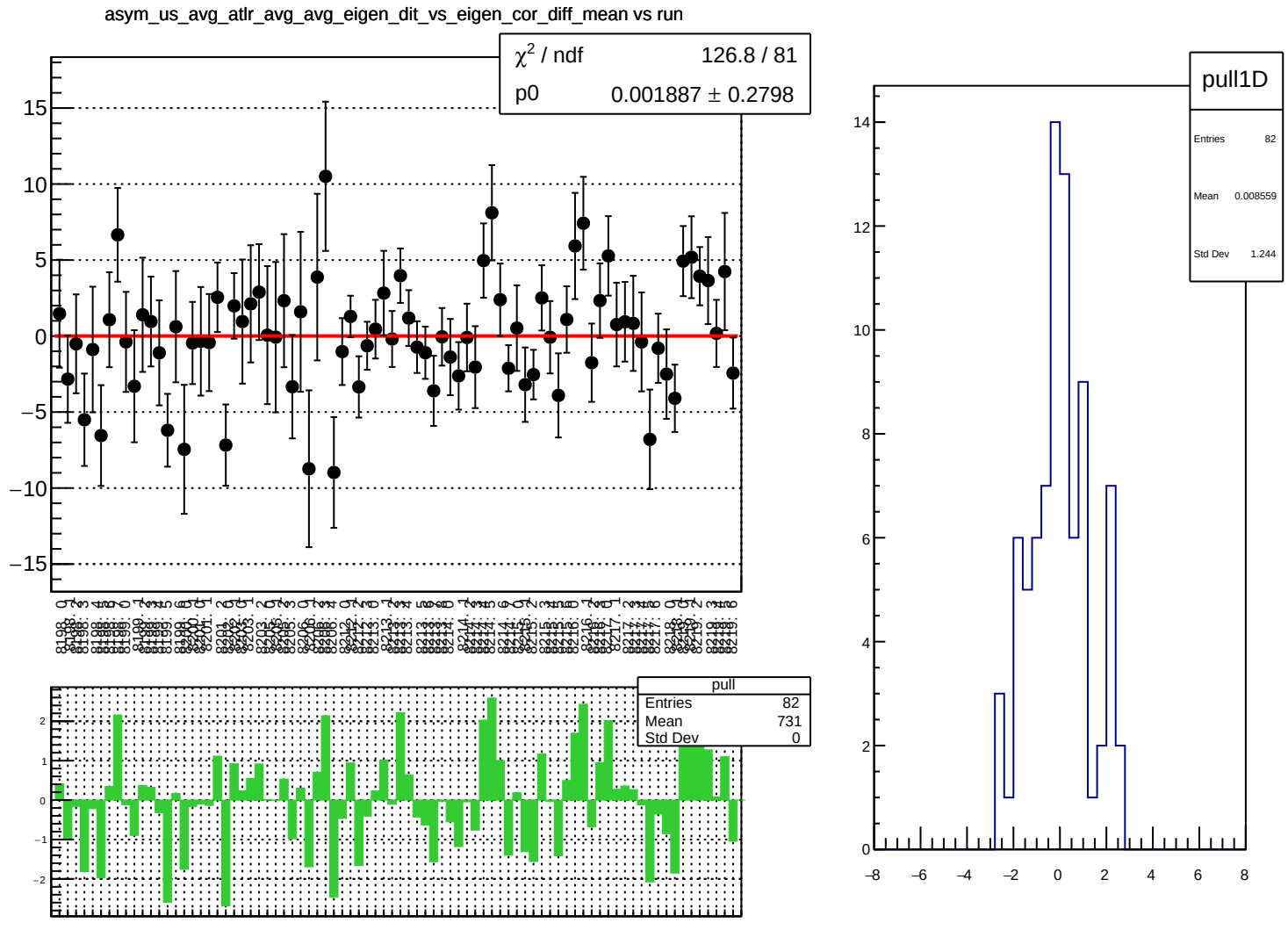

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.2 / 81
p0 8.091e−06 ± 1.867e−05
pull
Entries 82
Mean 16.97
Std Dev 0
pull1D
Entries 82
Mean −0.03017
Std Dev 1.099

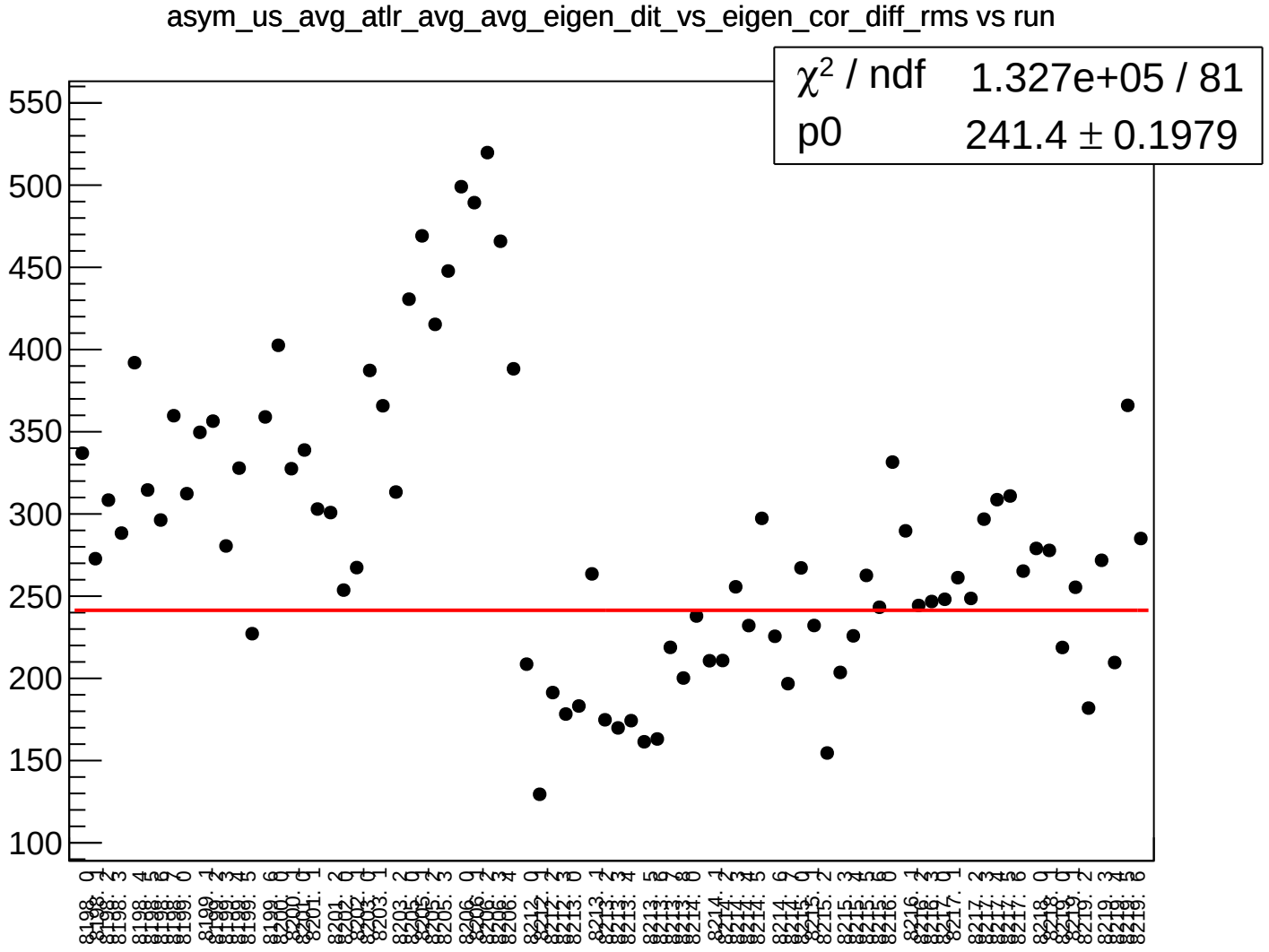

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.815e+04 / 81
p0 0.0164 ± 1.32e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

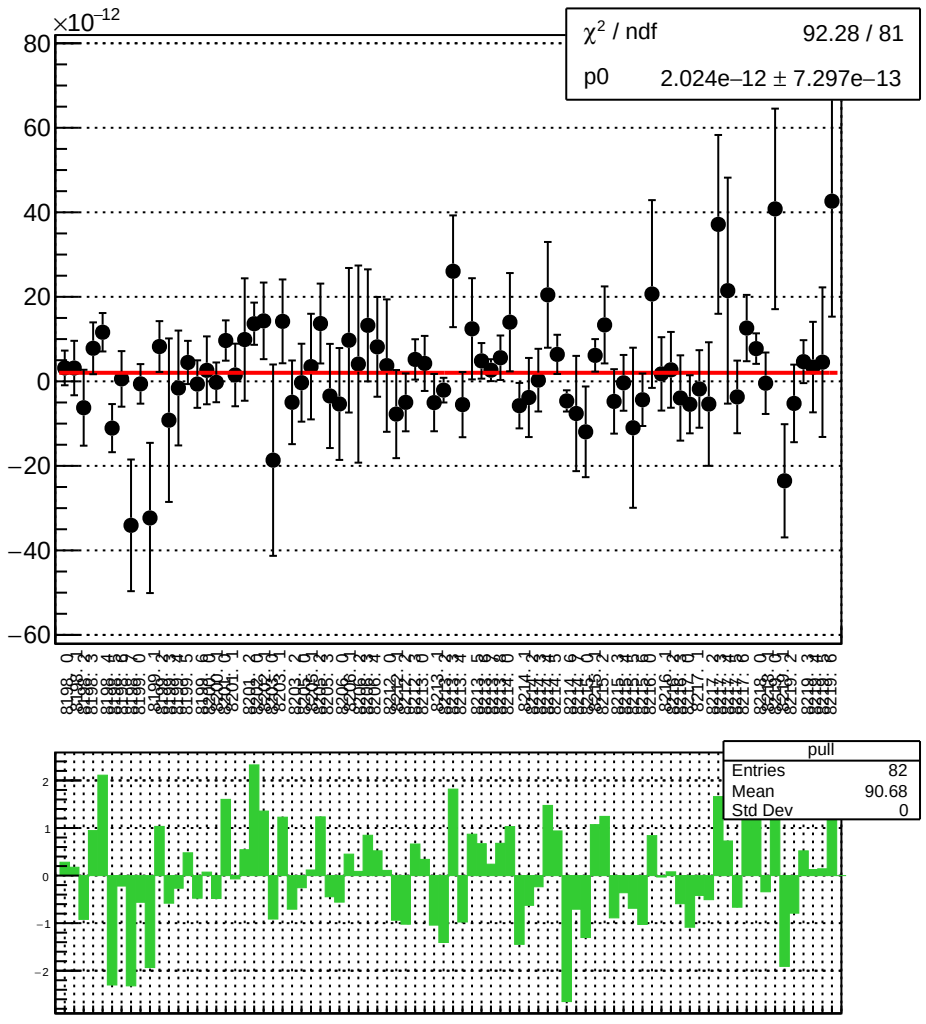

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 126.8 / 81
p0 0.001887 ± 0.2798
pull
Entries 82
Mean 731
Std Dev 0

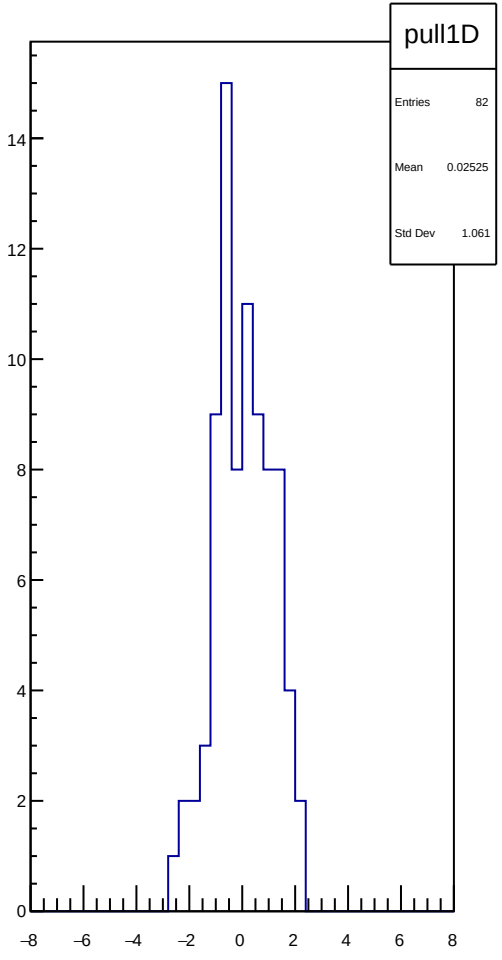

pull1D
Entries 82
Mean 0.008559
Std Dev 1.244

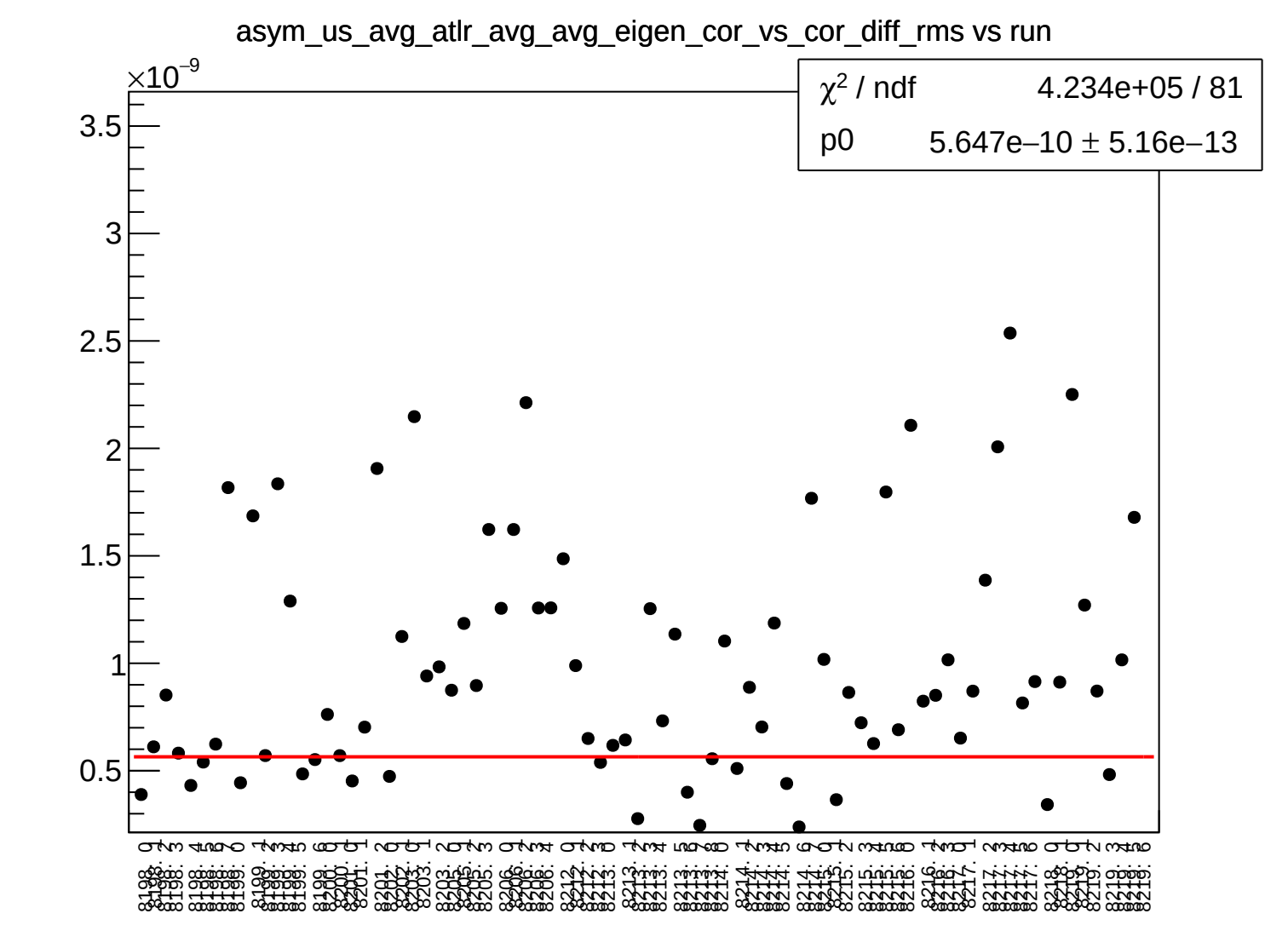

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.327e+05 / 81
p0 241.4 ± 0.1979
550
500
450
400
350
300
250
200
150
100

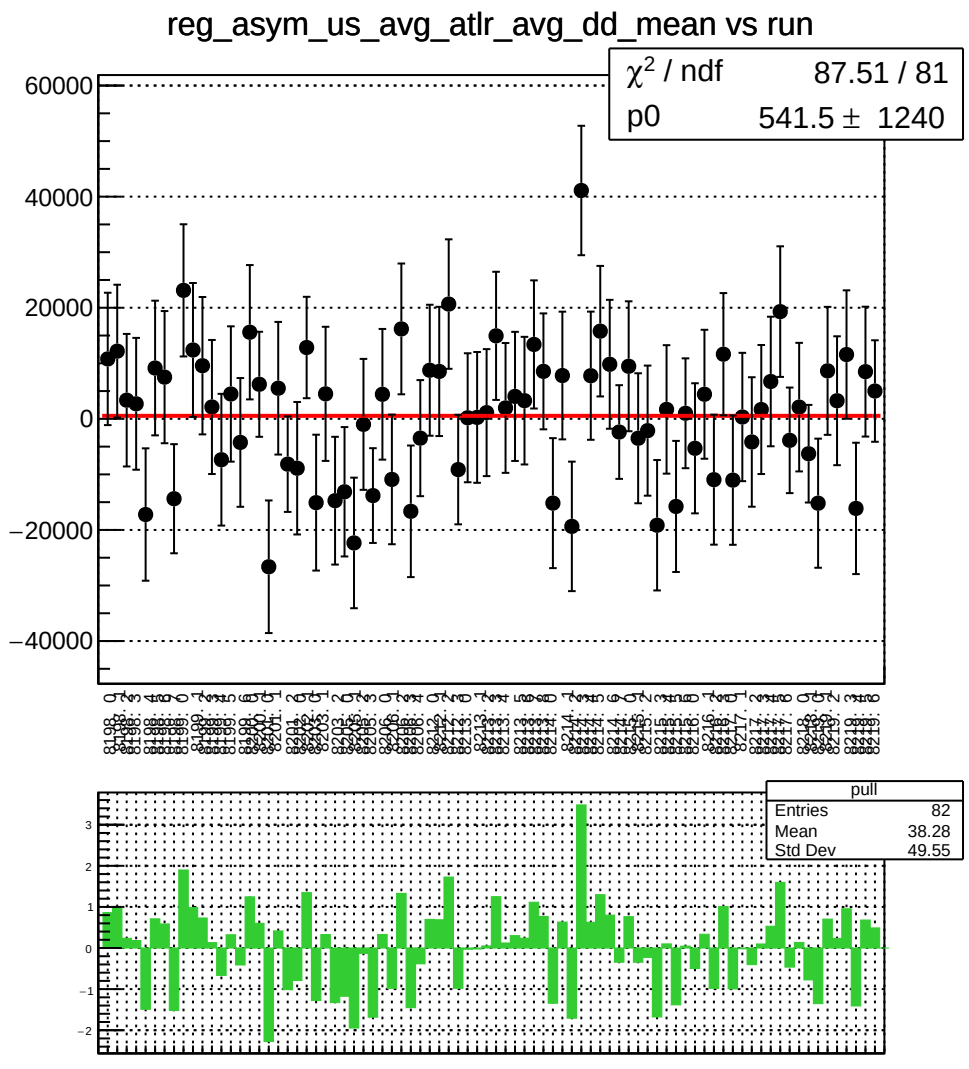

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.8 / 81
p0 0.001887 ± 0.2798
pull
Entries 82
Mean 731
Std Dev 0
pull1D
Entries 82
Mean 0.008559
Std Dev 1.244

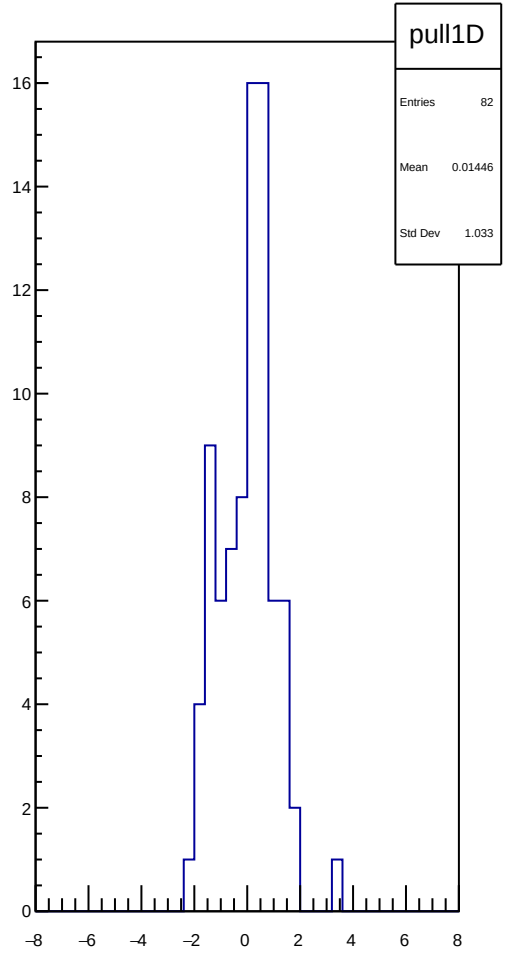

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.327e+05 / 81
p0 241.4 ± 0.1979
550
500
450
400
350
300
250
200
150
100

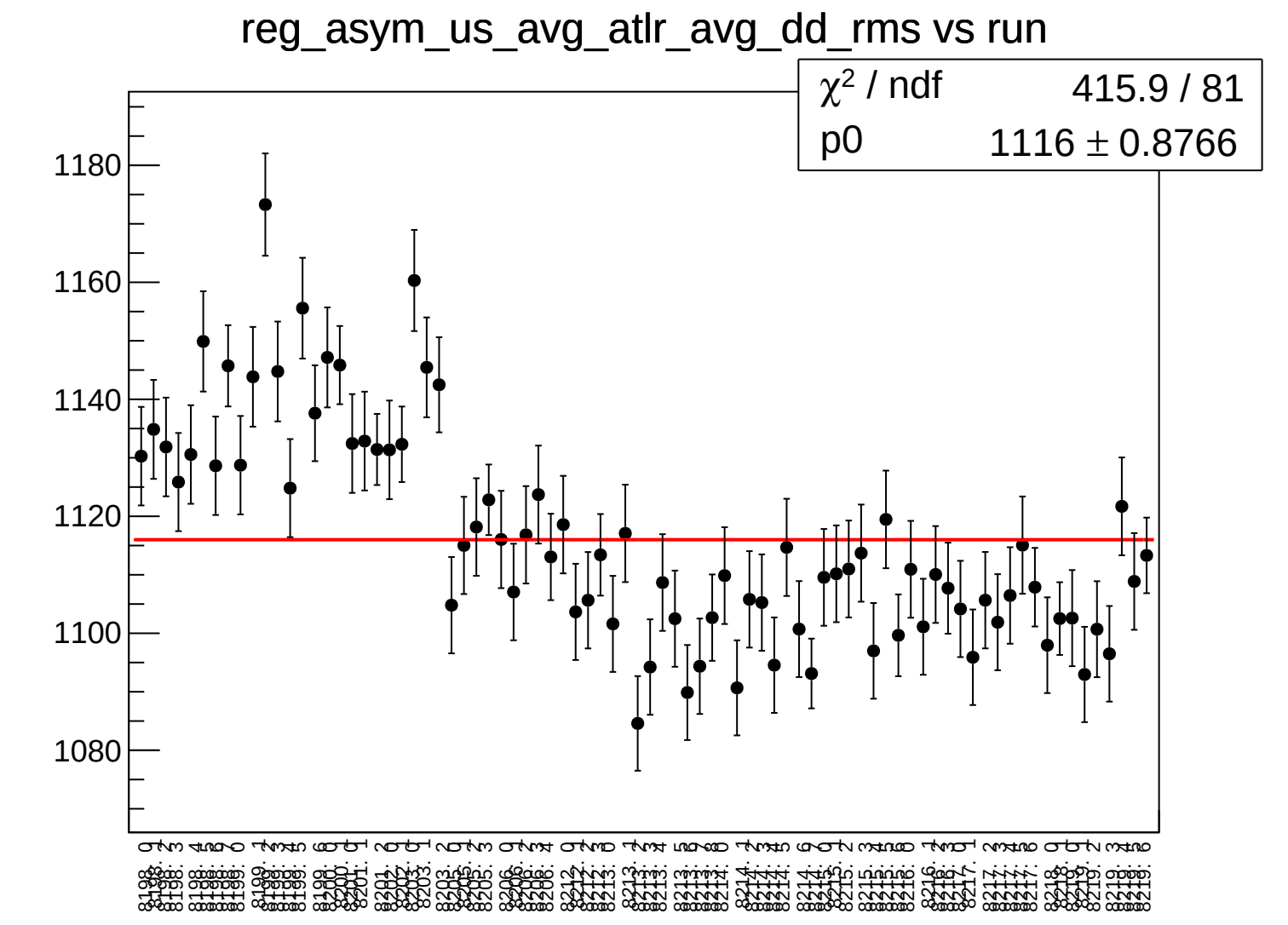

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.28 / 81
p0 2.024e−12 ± 7.297e−13
pull
Entries 82
Mean 90.68
Std Dev 0

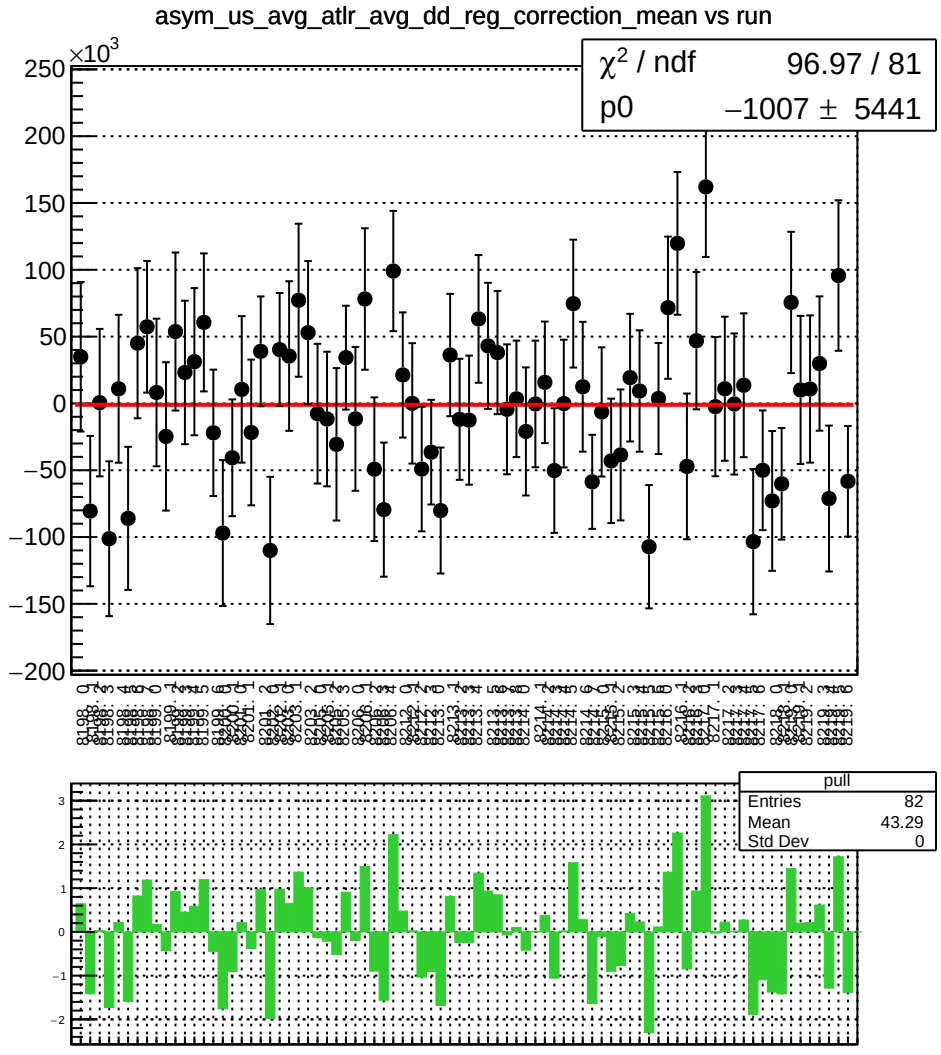

pull1D
Entries 82
Mean 0.02525
Std Dev 1.061

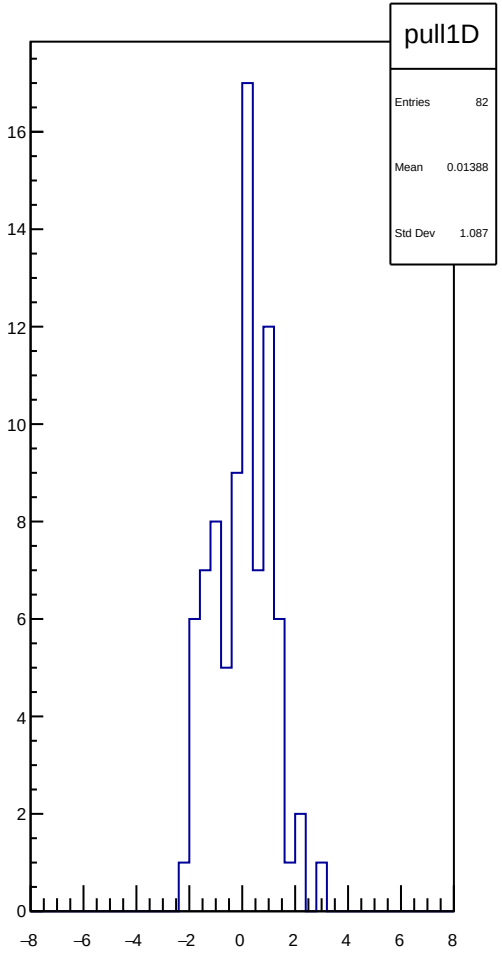

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.234e+05 / 81
p0 5.647e−10 ± 5.16e−13
3.5
3
2.5
2
1.5
1
0.5

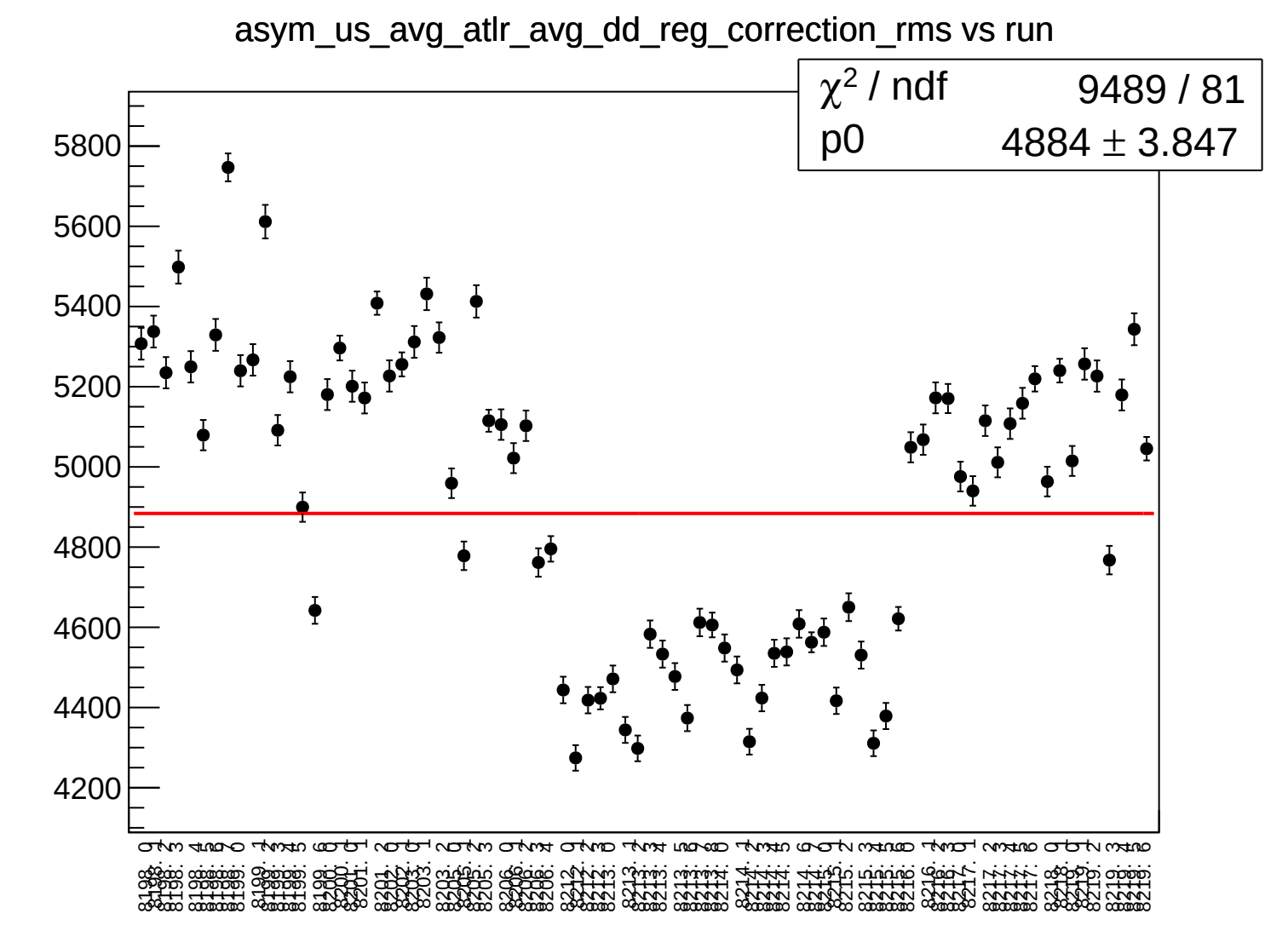

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.51 / 81
p0 541.5 ± 1240
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 38.28
Std Dev 49.55
3
2
1
0
−1
−2

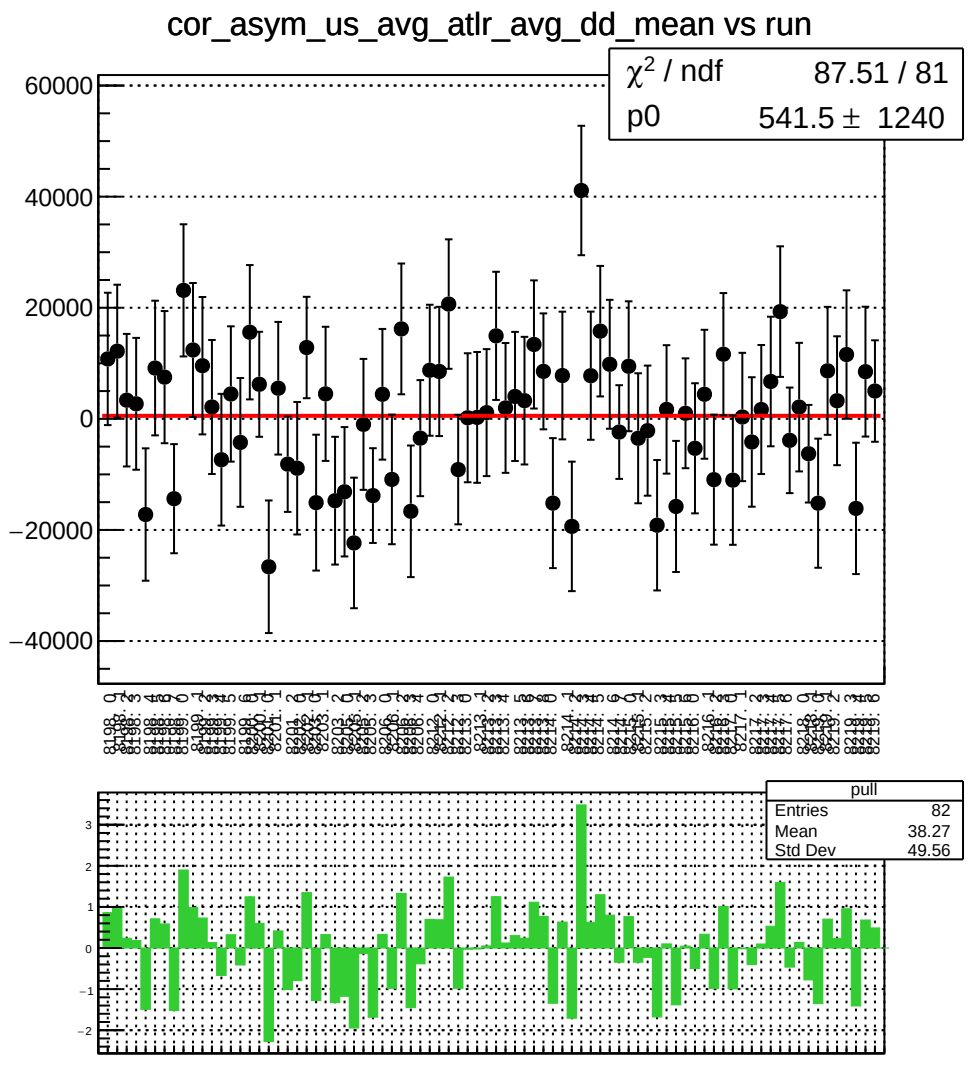

pull1D
Entries 82
Mean 0.01446
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

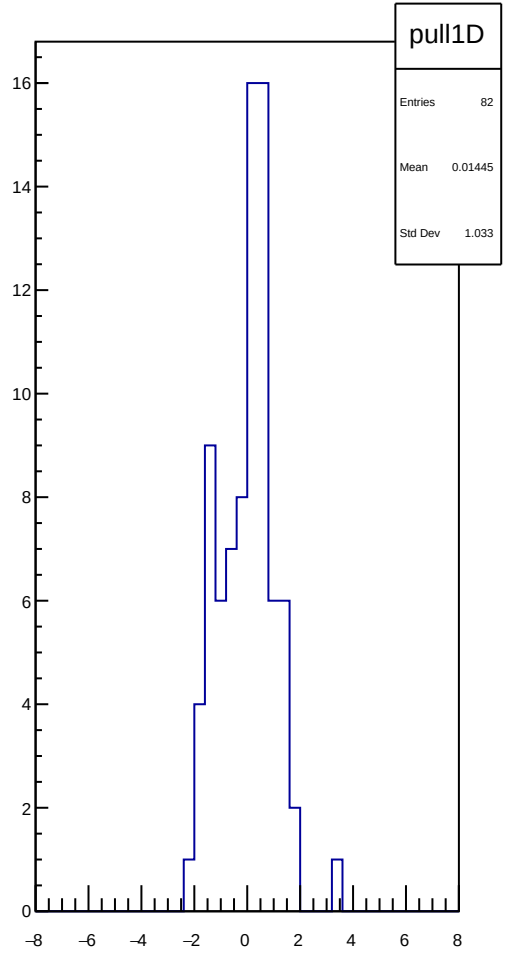

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 415.9 / 81
p0 1116 ± 0.8766
1180
1160
1140
1120
1100
1080

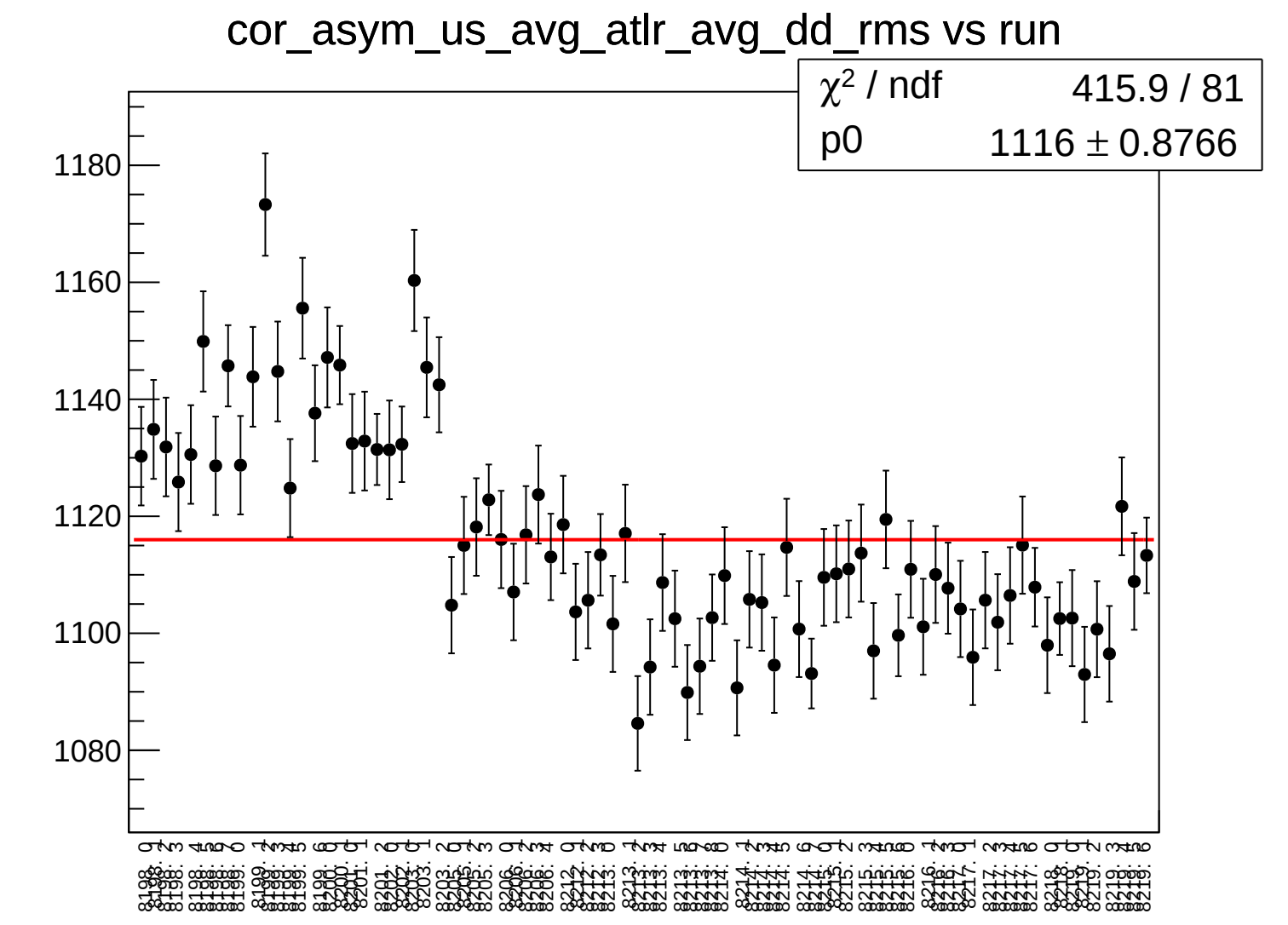

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
χ² / ndf 96.97 / 81
p0 −1007 ± 5441
×10³
pull
Entries 82
Mean 43.29
Std Dev 0

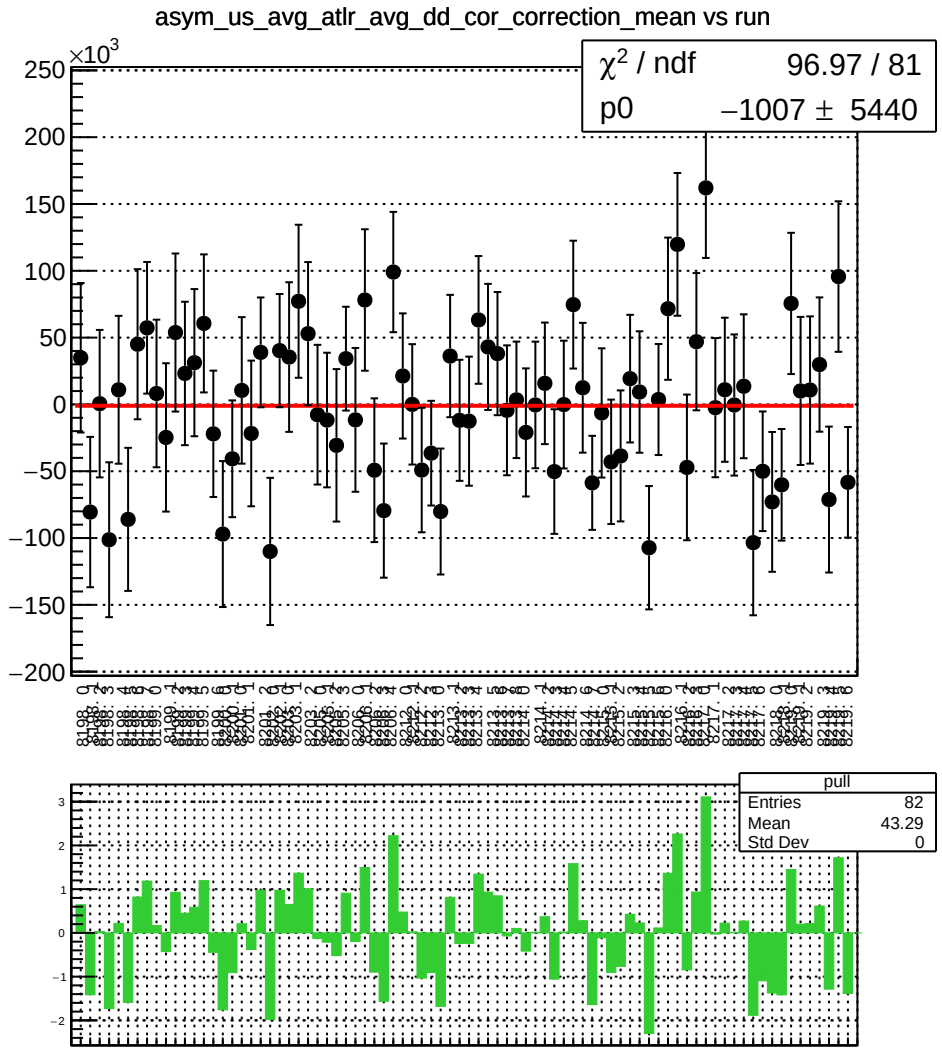

pull1D
Entries 82
Mean 0.01388
Std Dev 1.087

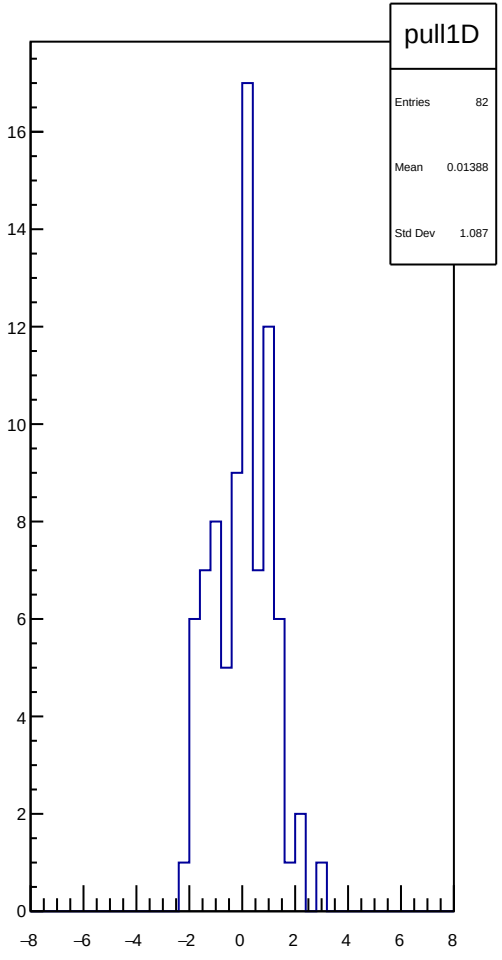

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 9489 / 81
p0 4884 ± 3.847
5800
5600
5400
5200
5000
4800
4600
4400
4200

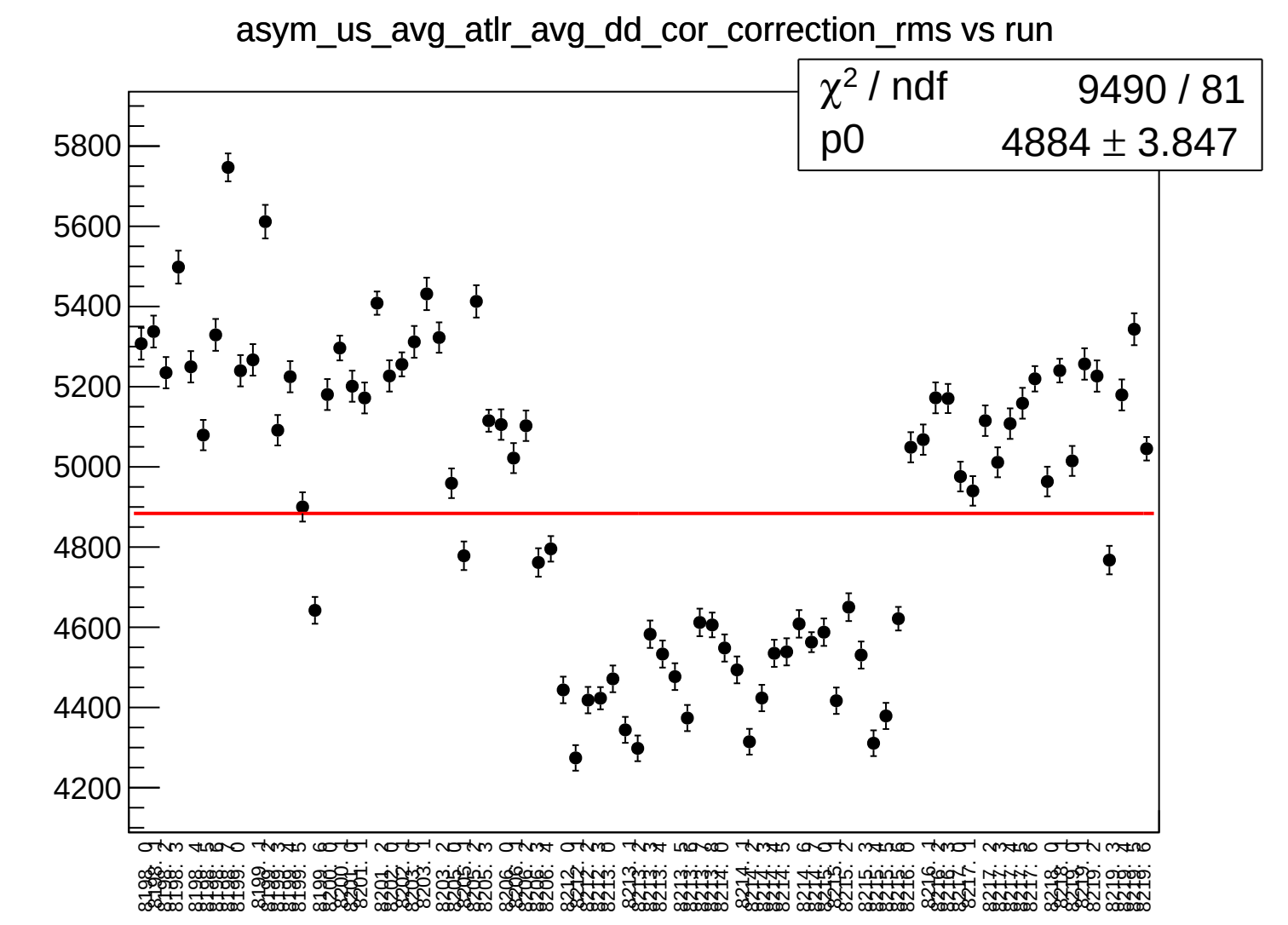

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.51 / 81
p0 541.5 ± 1240
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 38.27
Std Dev 49.56
3
2
1
0
−1
−2

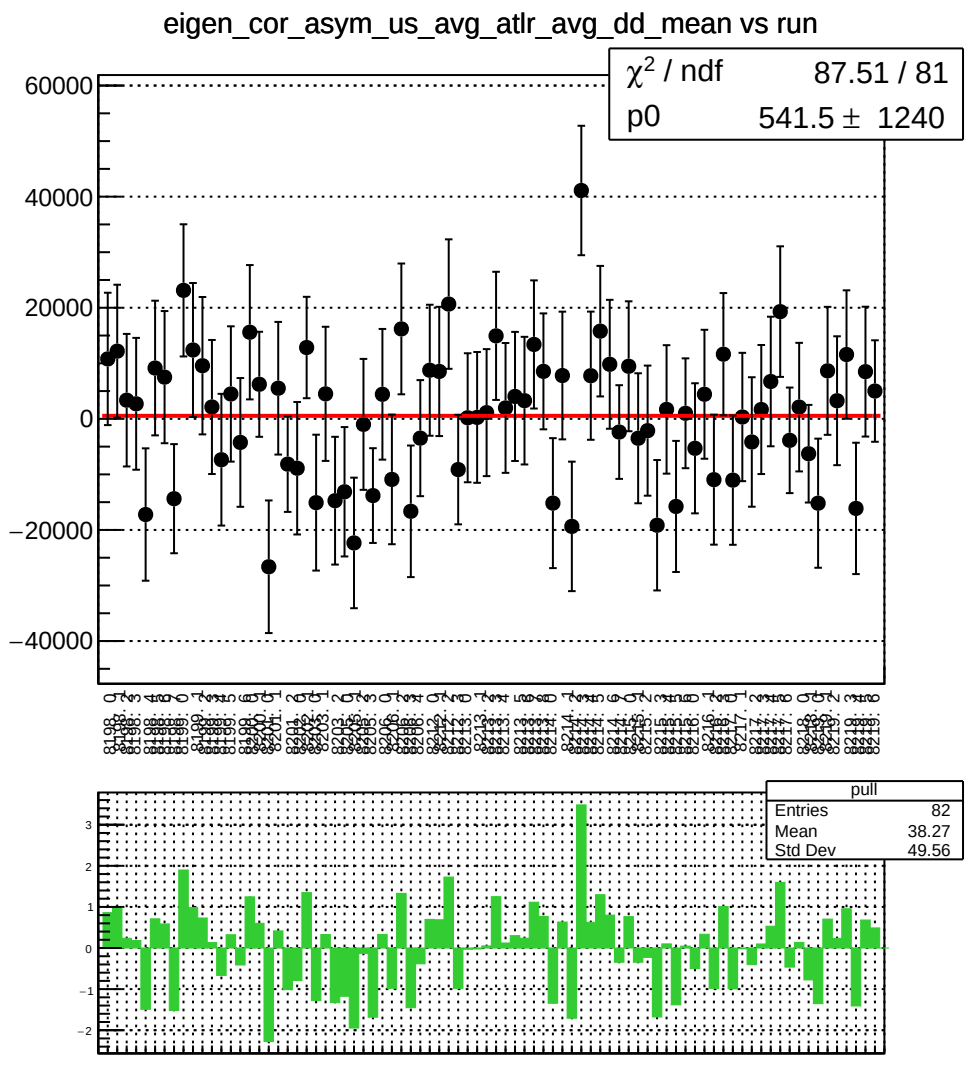

pull1D
Entries 82
Mean 0.01445
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

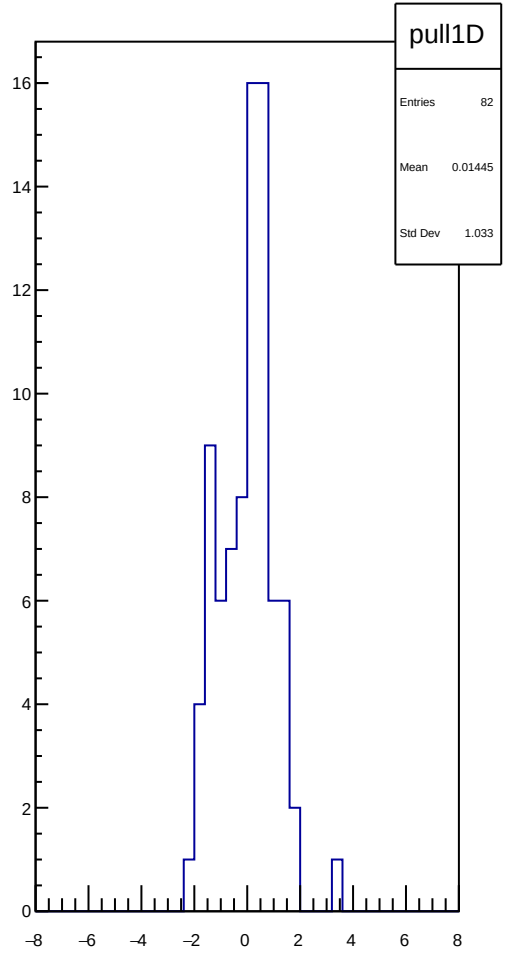

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 415.9 / 81
p0 1116 ± 0.8766
1180
1160
1140
1120
1100
1080

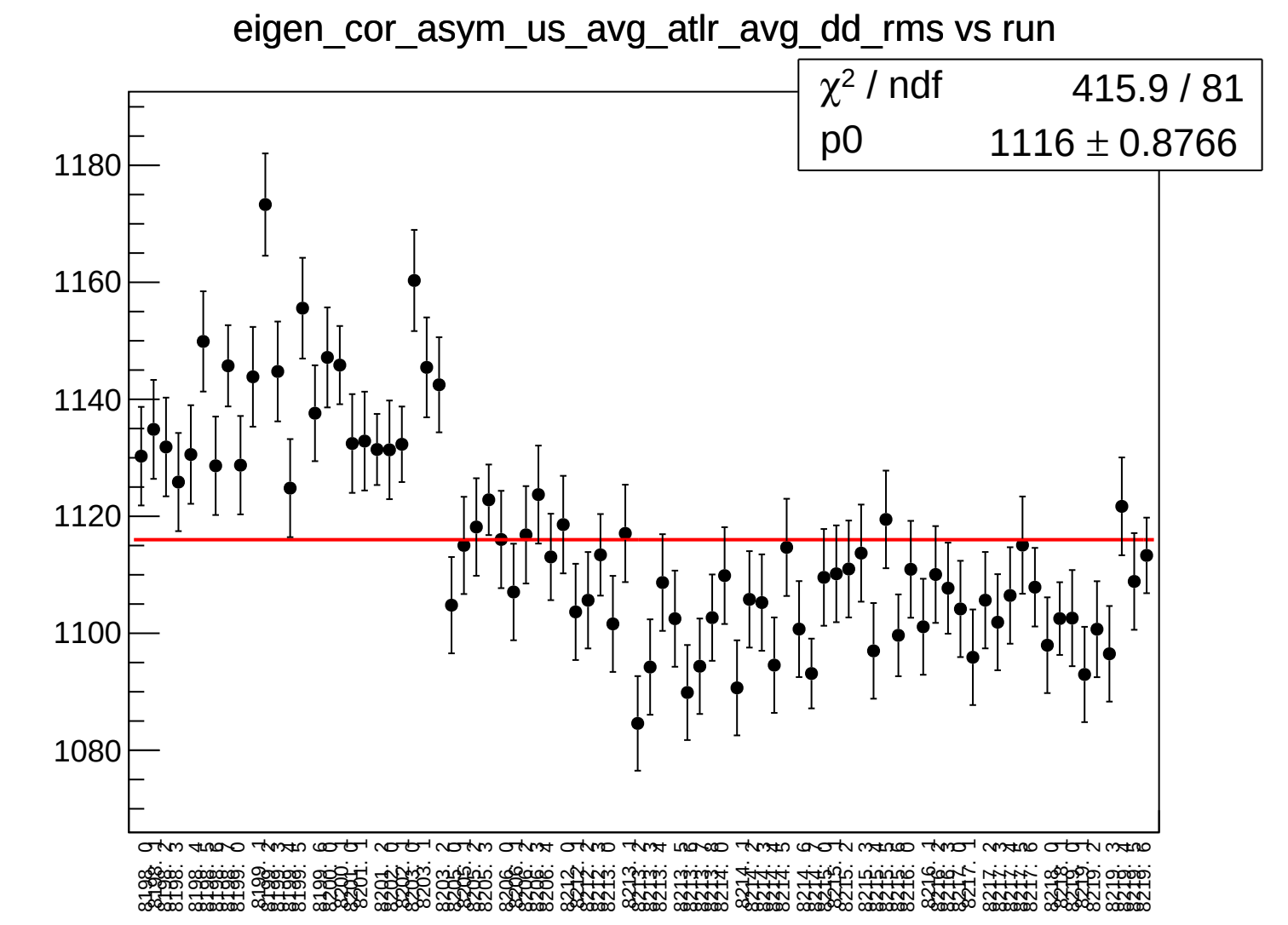

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
χ² / ndf 96.97 / 81
p0 −1007 ± 5440
×10³
pull
Entries 82
Mean 43.29
Std Dev 0

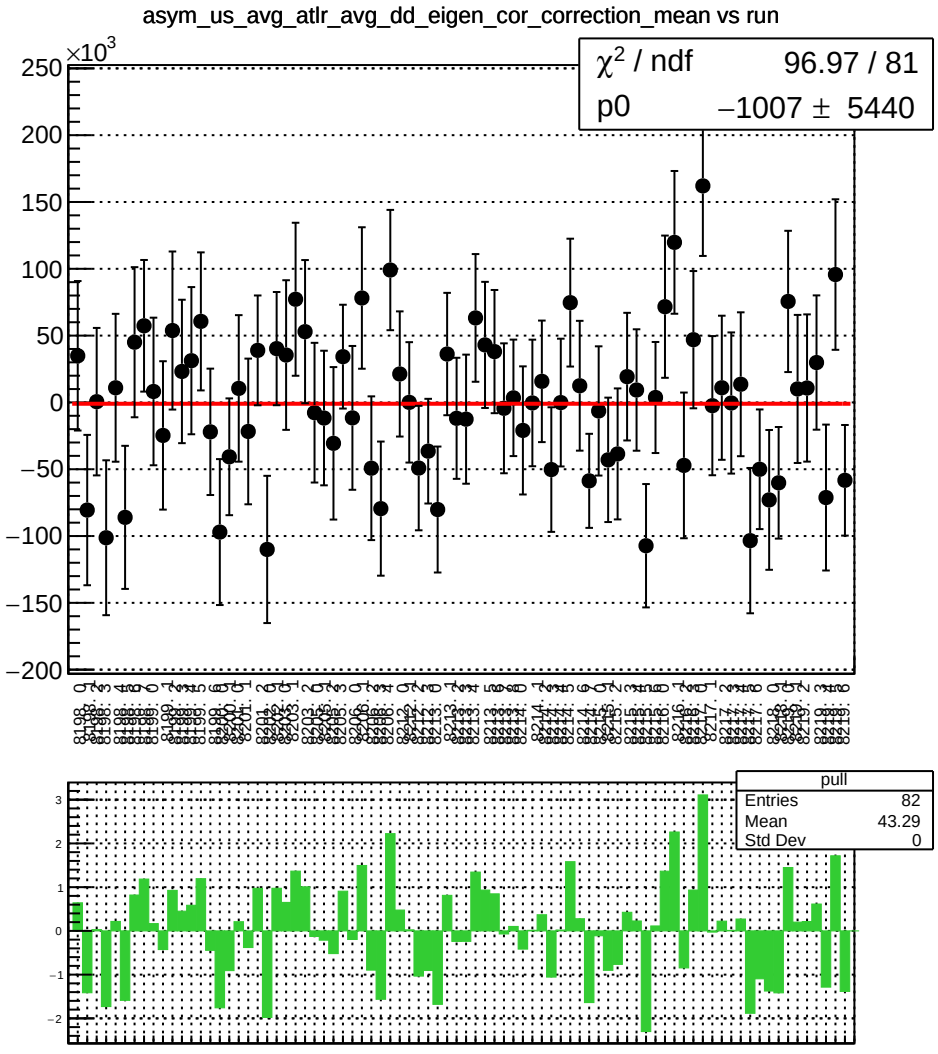

pull1D
Entries 82
Mean 0.01388
Std Dev 1.087

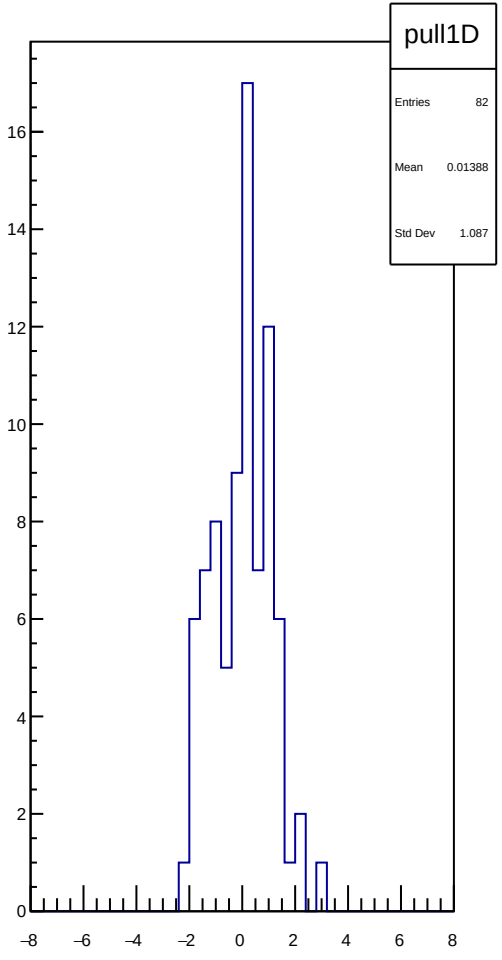

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 9490 / 81
p0 4884 ± 3.847
5800
5600
5400
5200
5000
4800
4600
4400
4200

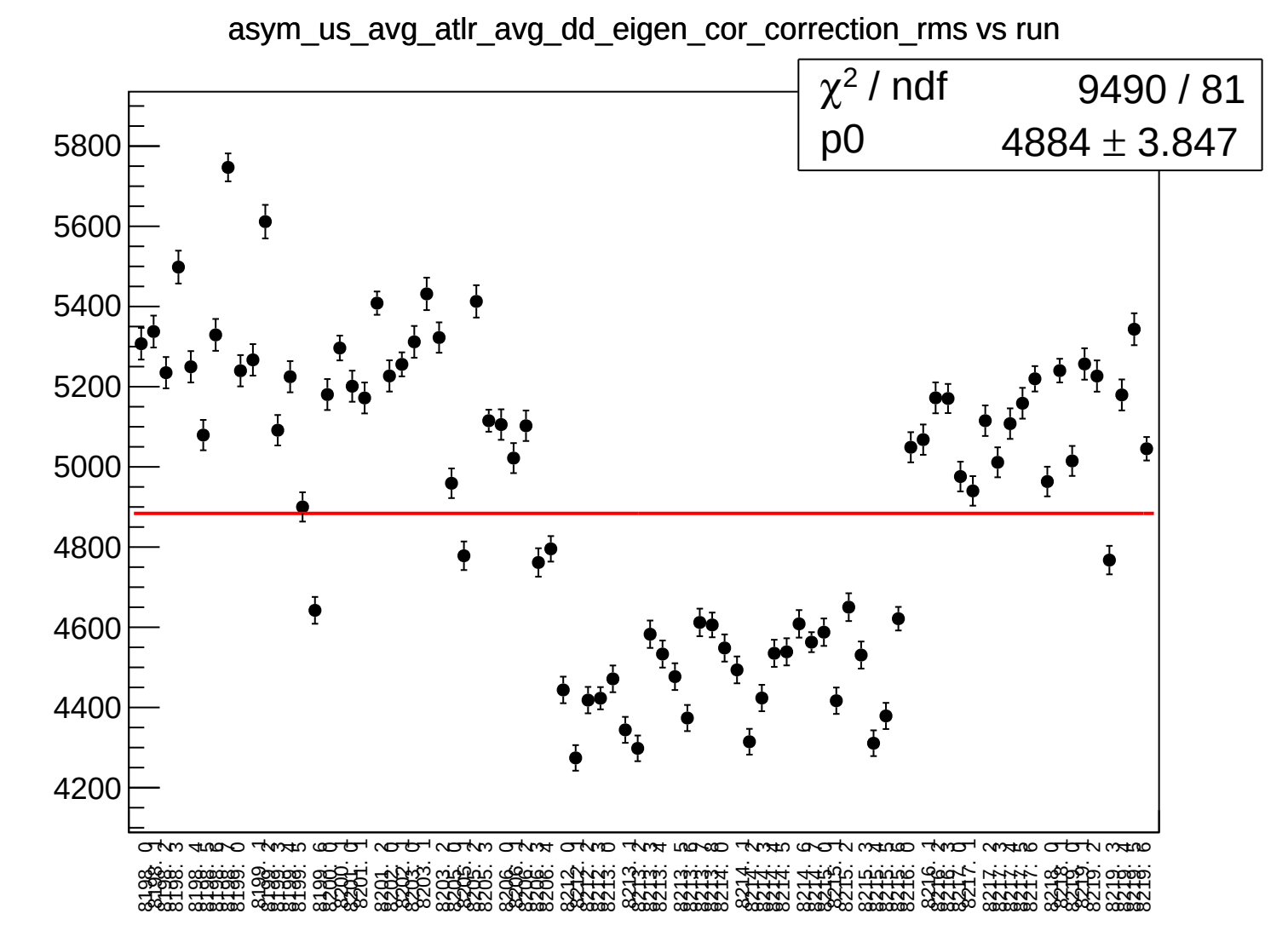

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.51 / 81
p0 541.5 ± 1240
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 38.27
Std Dev 49.56
3
2
1
0
−1
−2

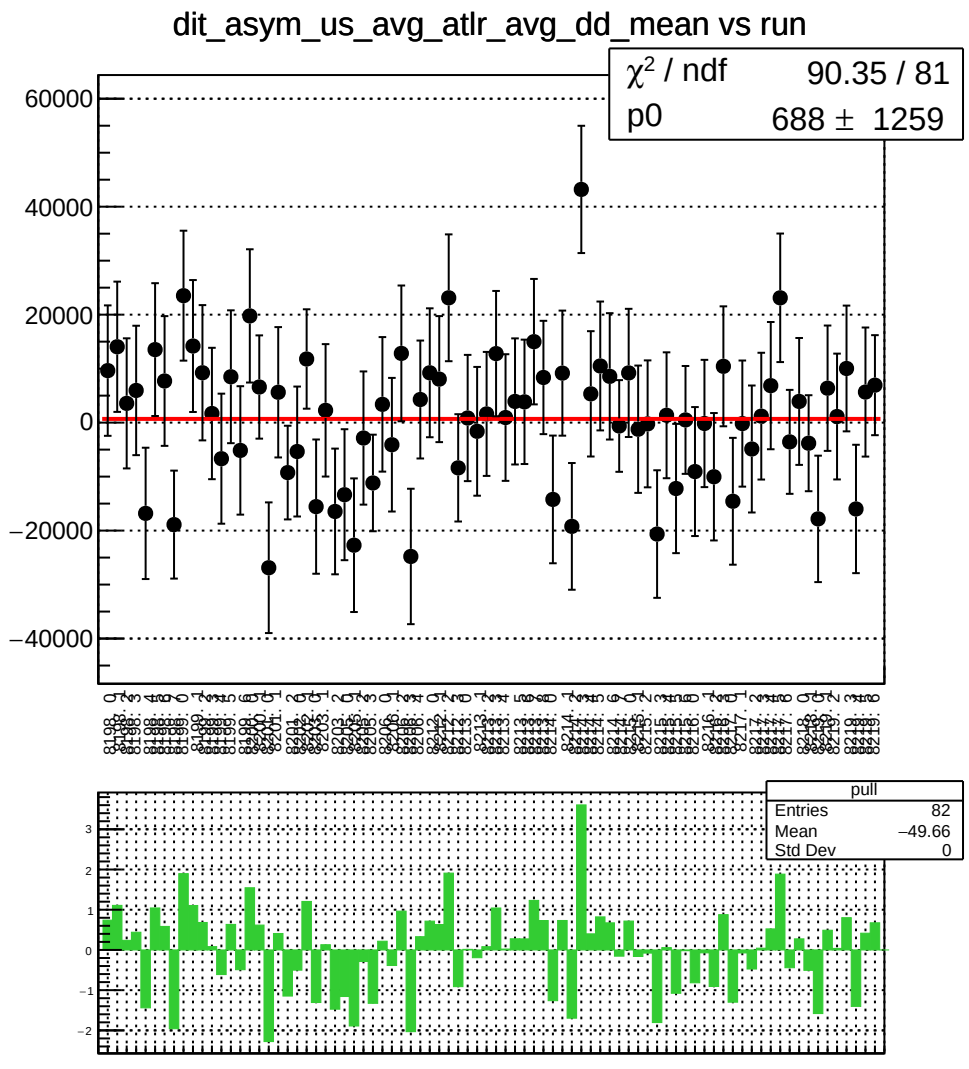

pull1D
Entries 82
Mean 0.01445
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

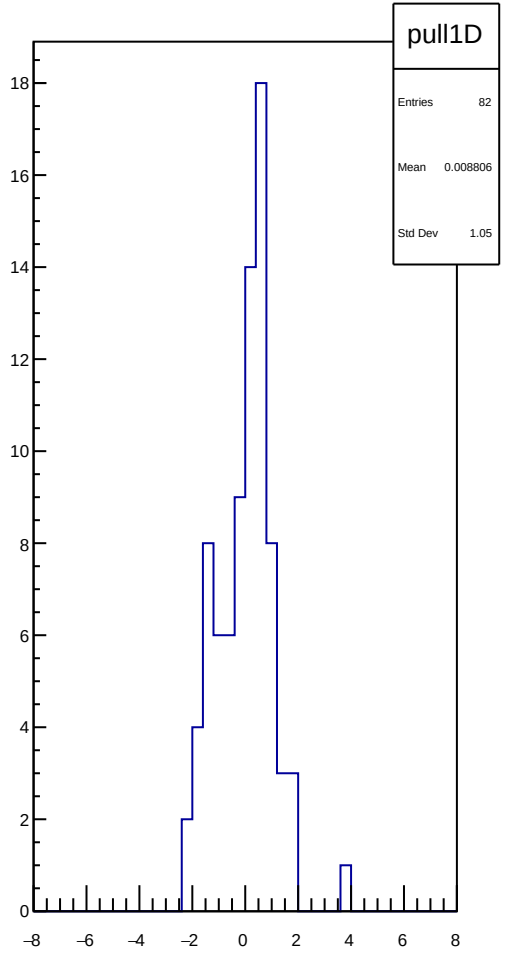

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 415.9 / 81
p0 1116 ± 0.8766
1180
1160
1140
1120
1100
1080

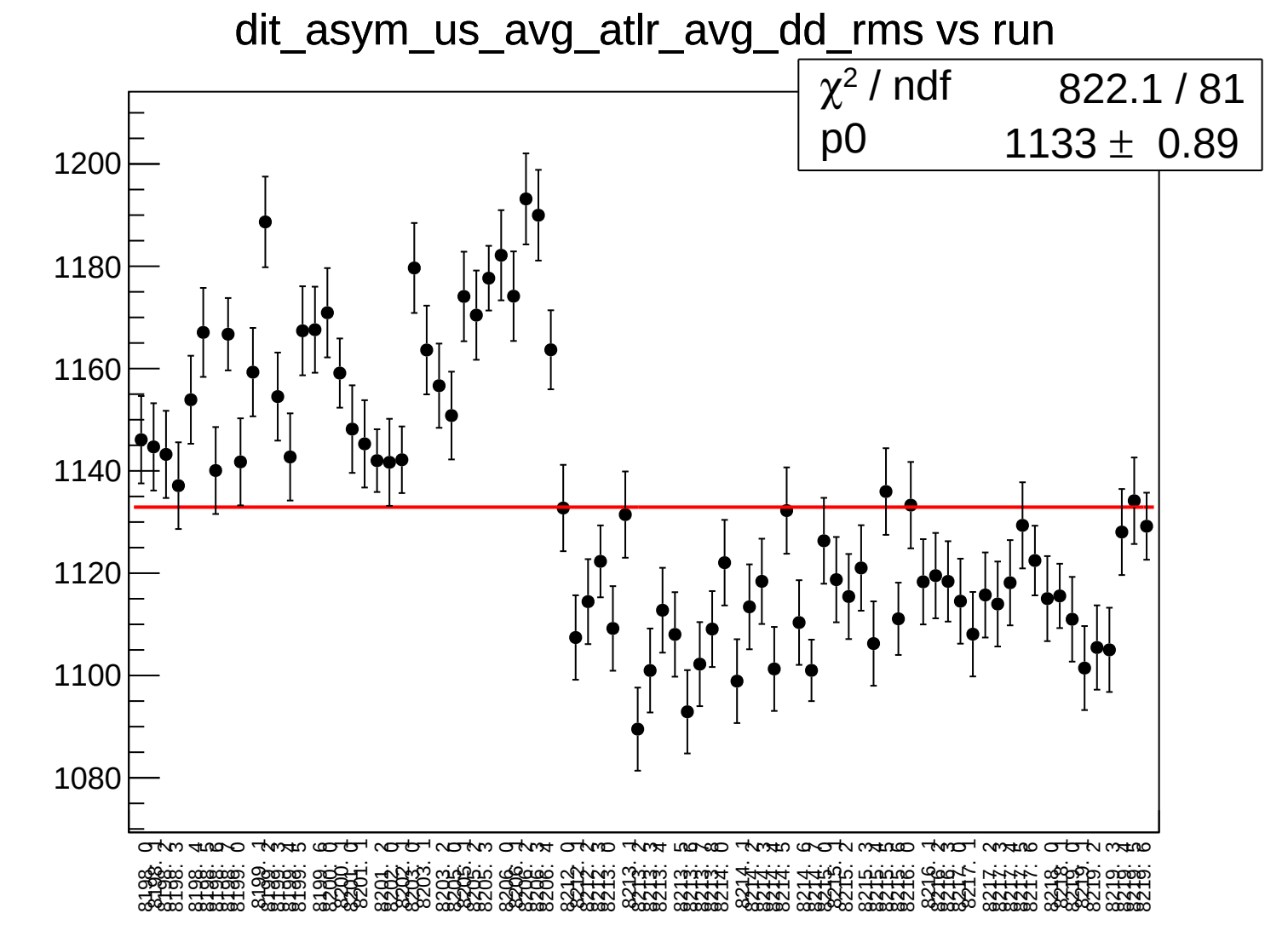

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.97 / 81
p0 −1007 ± 5440
pull
Entries 82
Mean 43.29
Std Dev 0

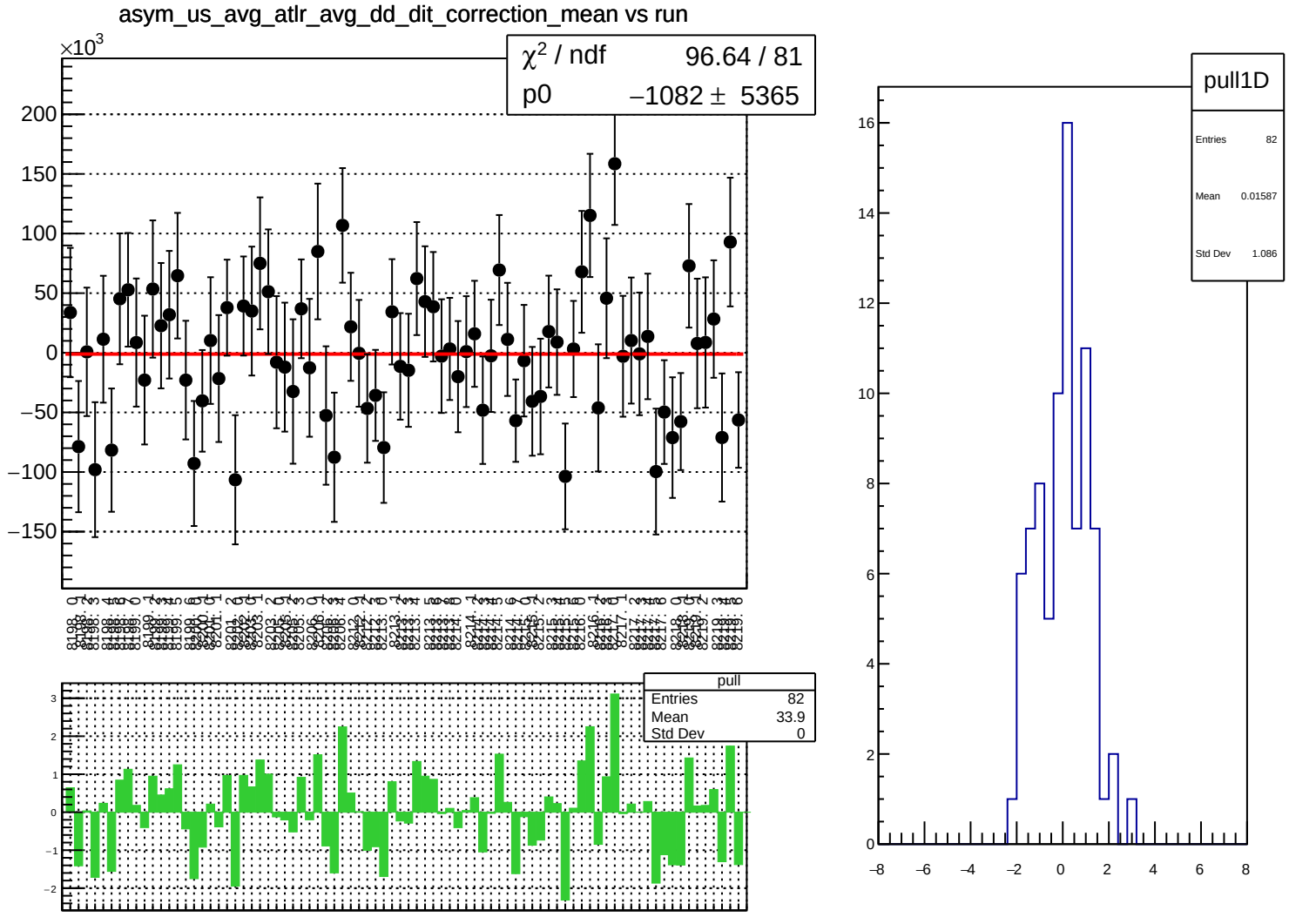

pull1D
Entries 82
Mean 0.01388
Std Dev 1.087

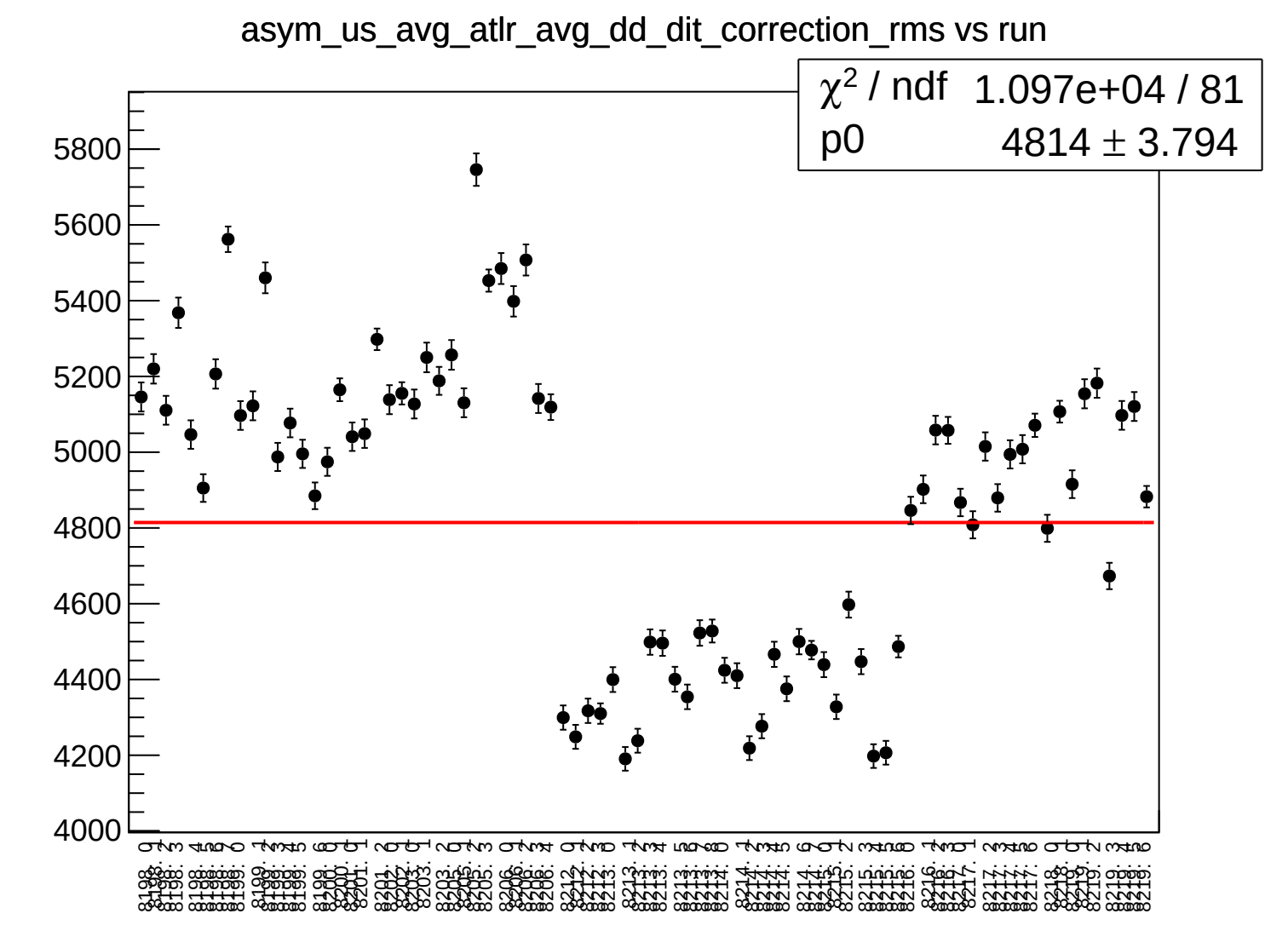

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 9490 / 81
p0 4884 ± 3.847
5800
5600
5400
5200
5000
4800
4600
4400
4200

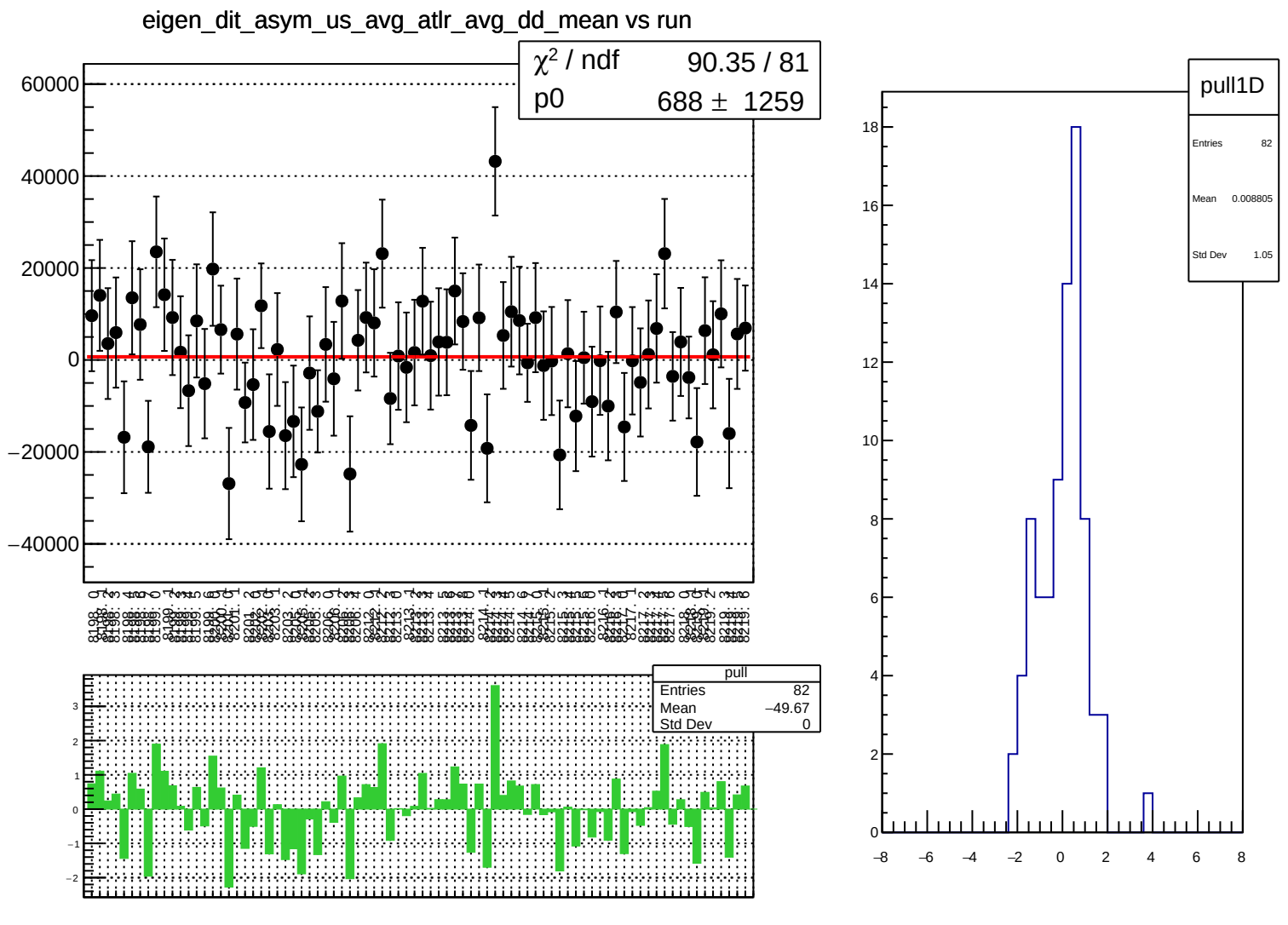

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 90.35 / 81
p0 688 ± 1259
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −49.66
Std Dev 0
3
2
1
0
−1
−2

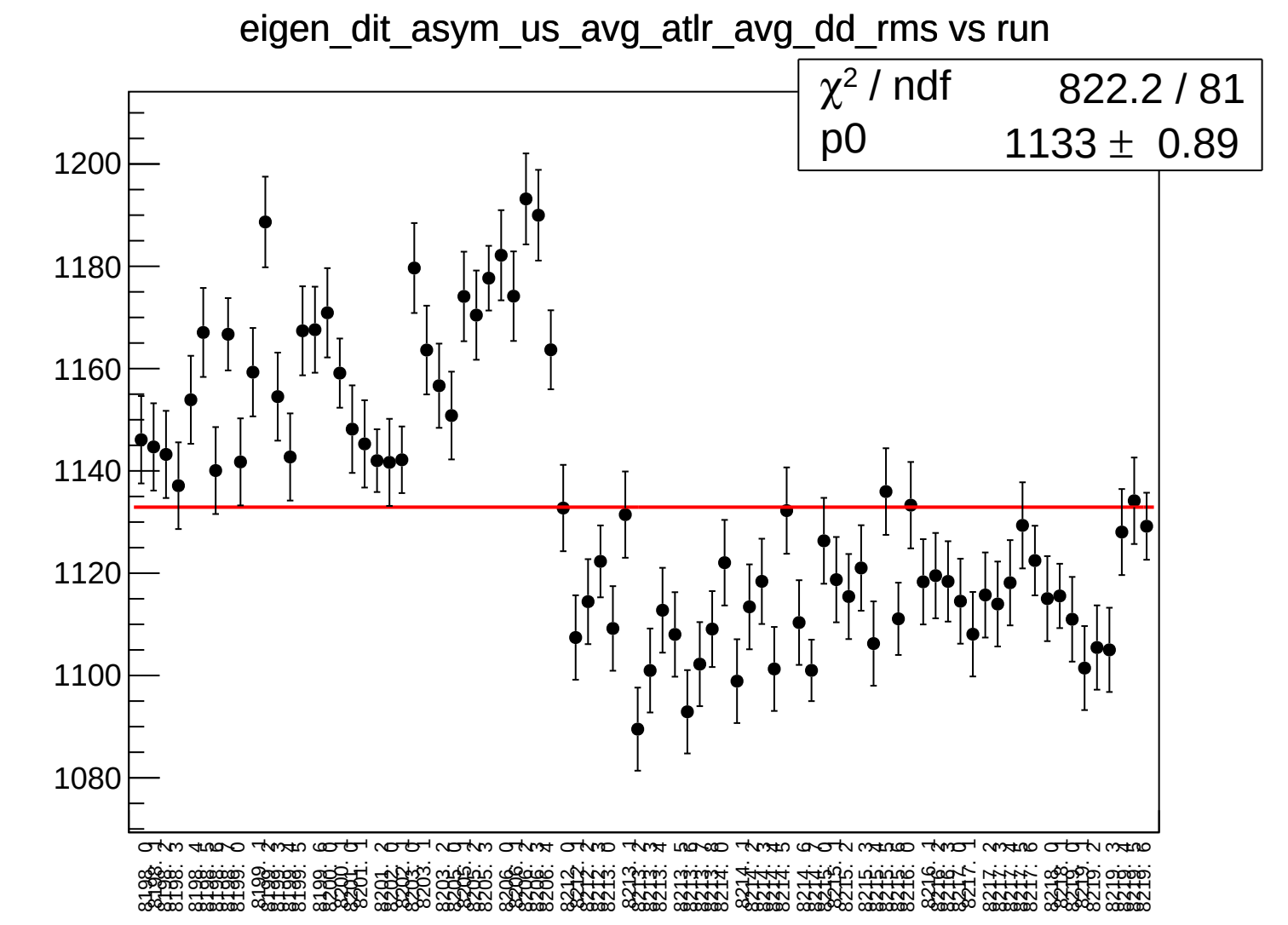

pull1D
Entries 82
Mean 0.008806
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

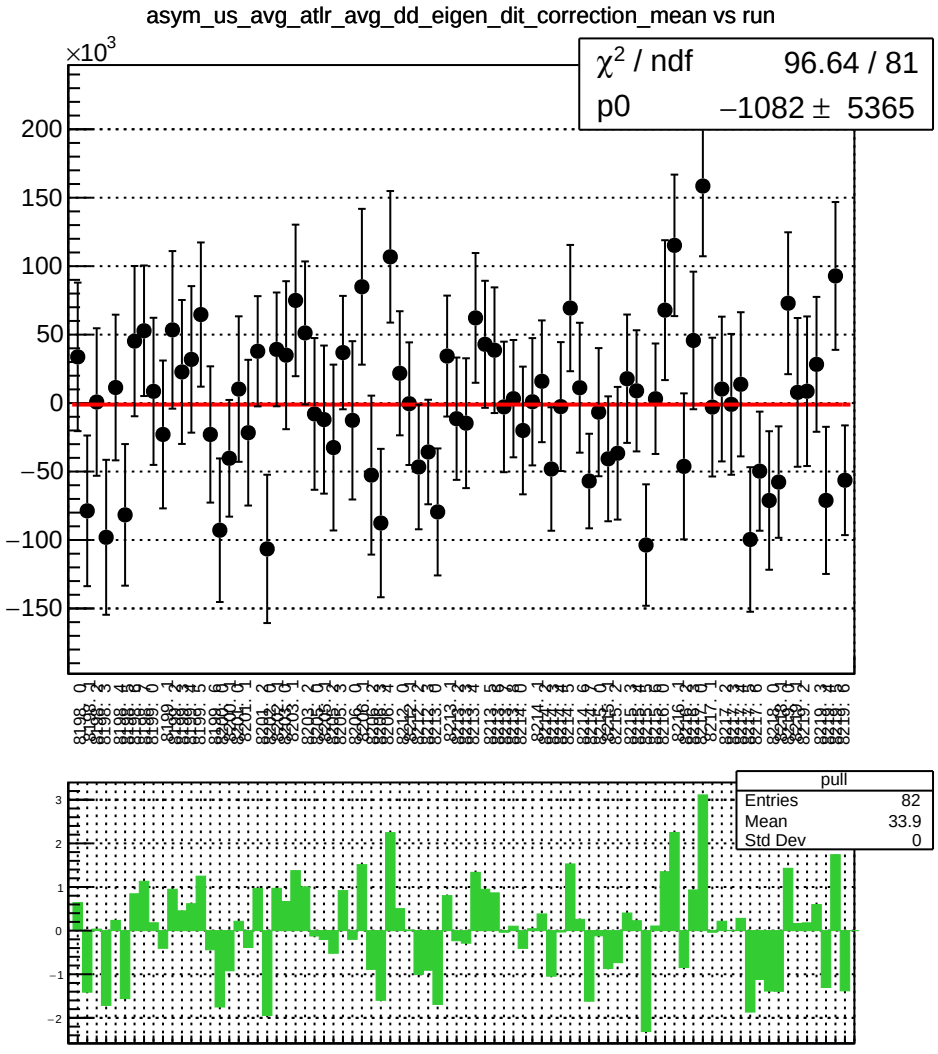

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 822.1 / 81
p0 1133 ± 0.89
1200
1180
1160
1140
1120
1100
1080

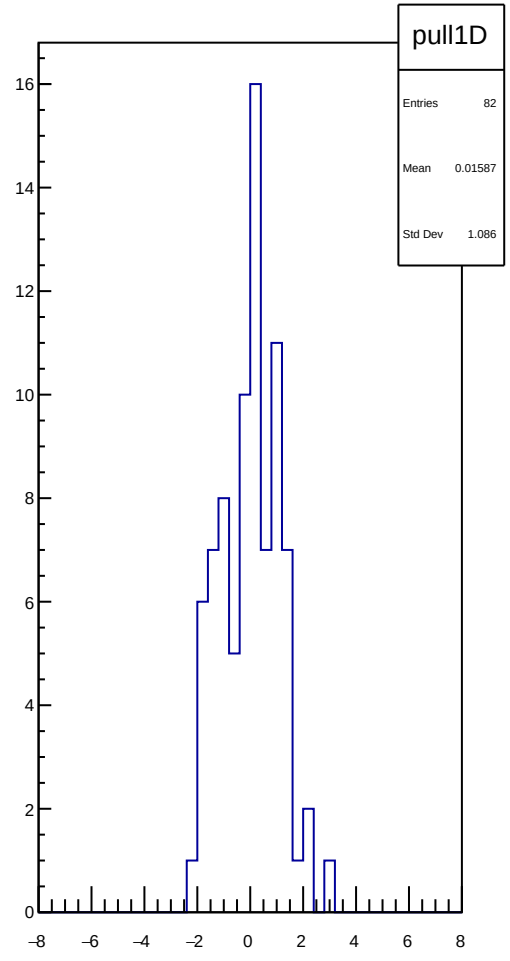

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.64 / 81
p0 −1082 ± 5365
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 33.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01587
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.097e+04 / 81
p0 4814 ± 3.794
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000


eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 90.35 / 81
p0 688 ± 1259
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −49.67
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.008805
Std Dev 1.05
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 822.2 / 81
p0 1133 ± 0.89
1200
1180
1160
1140
1120
1100
1080


asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 96.64 / 81
p0 −1082 ± 5365
200
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 33.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 82
Mean 0.01587
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
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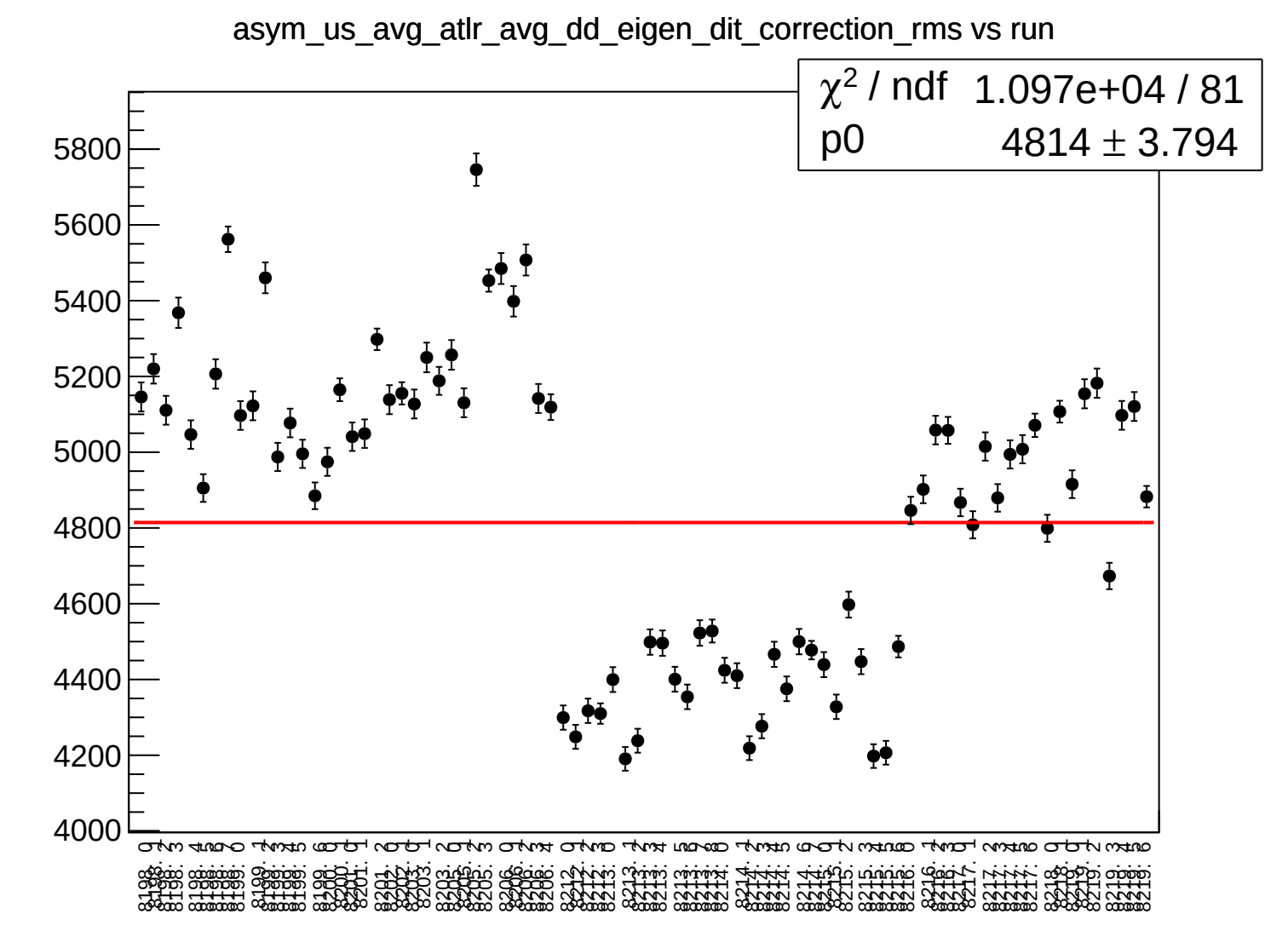
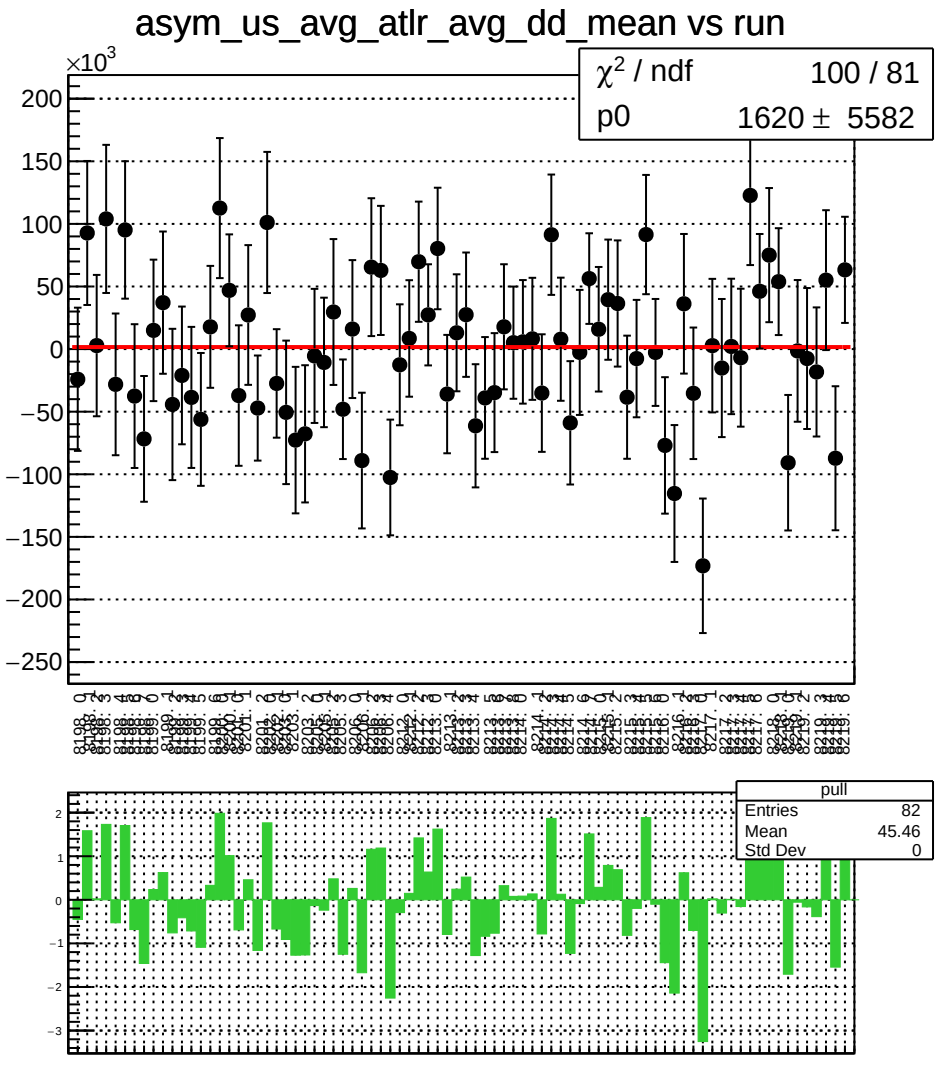
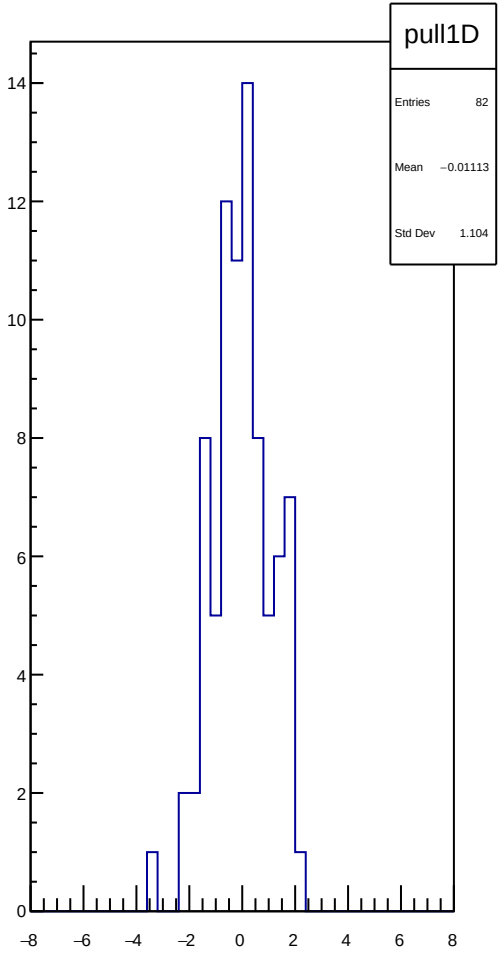
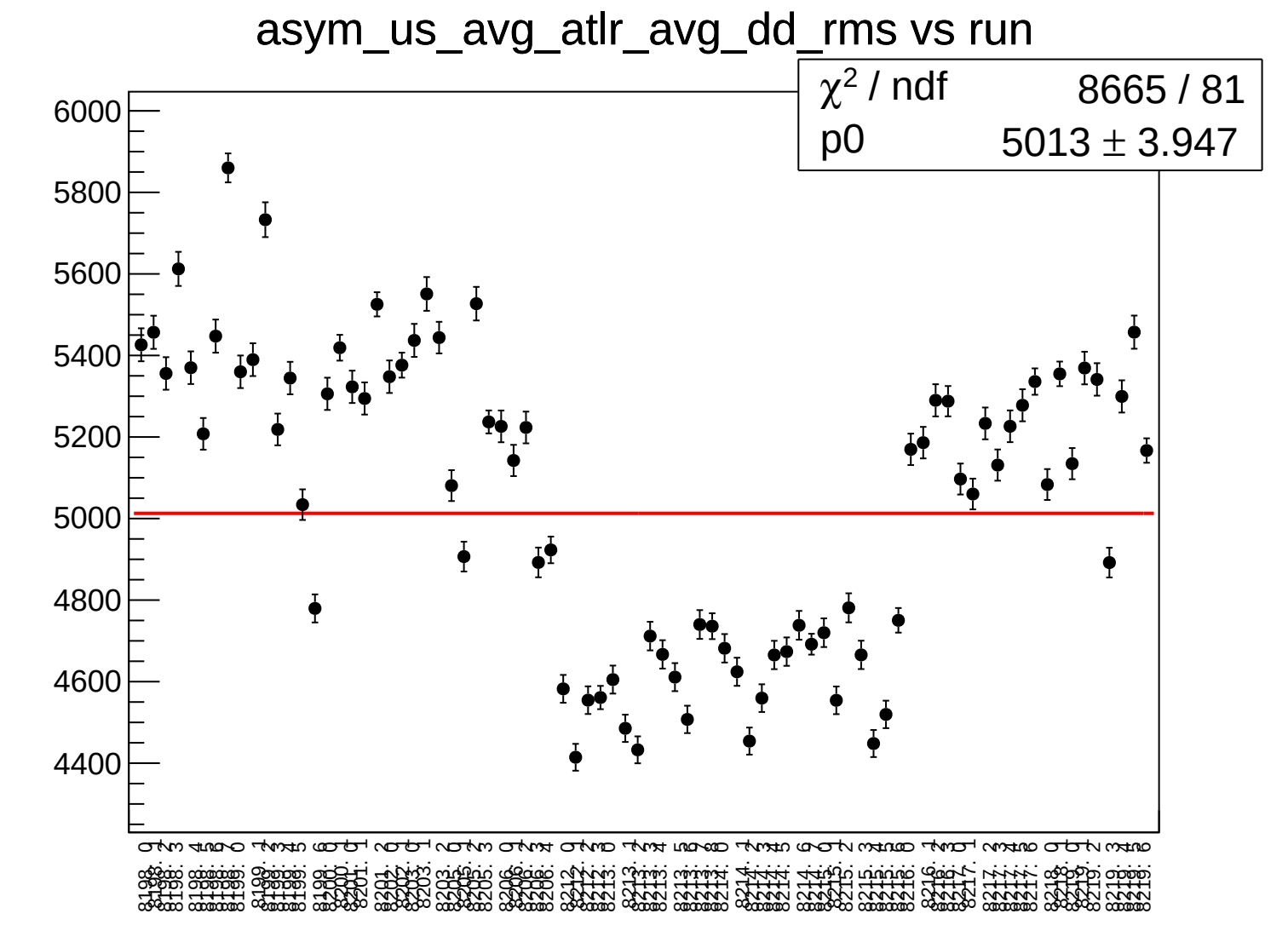
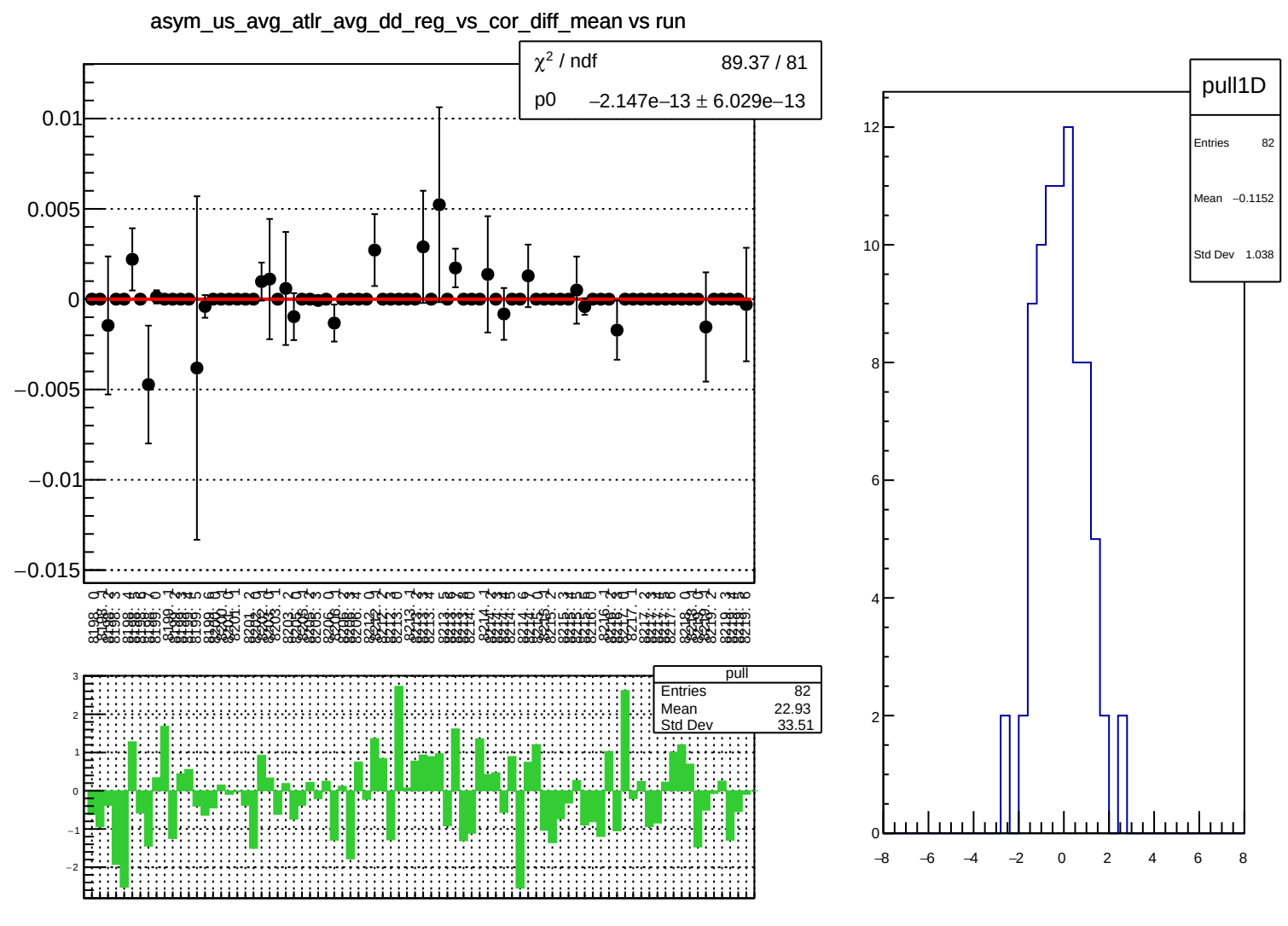
0
2
4
6
8

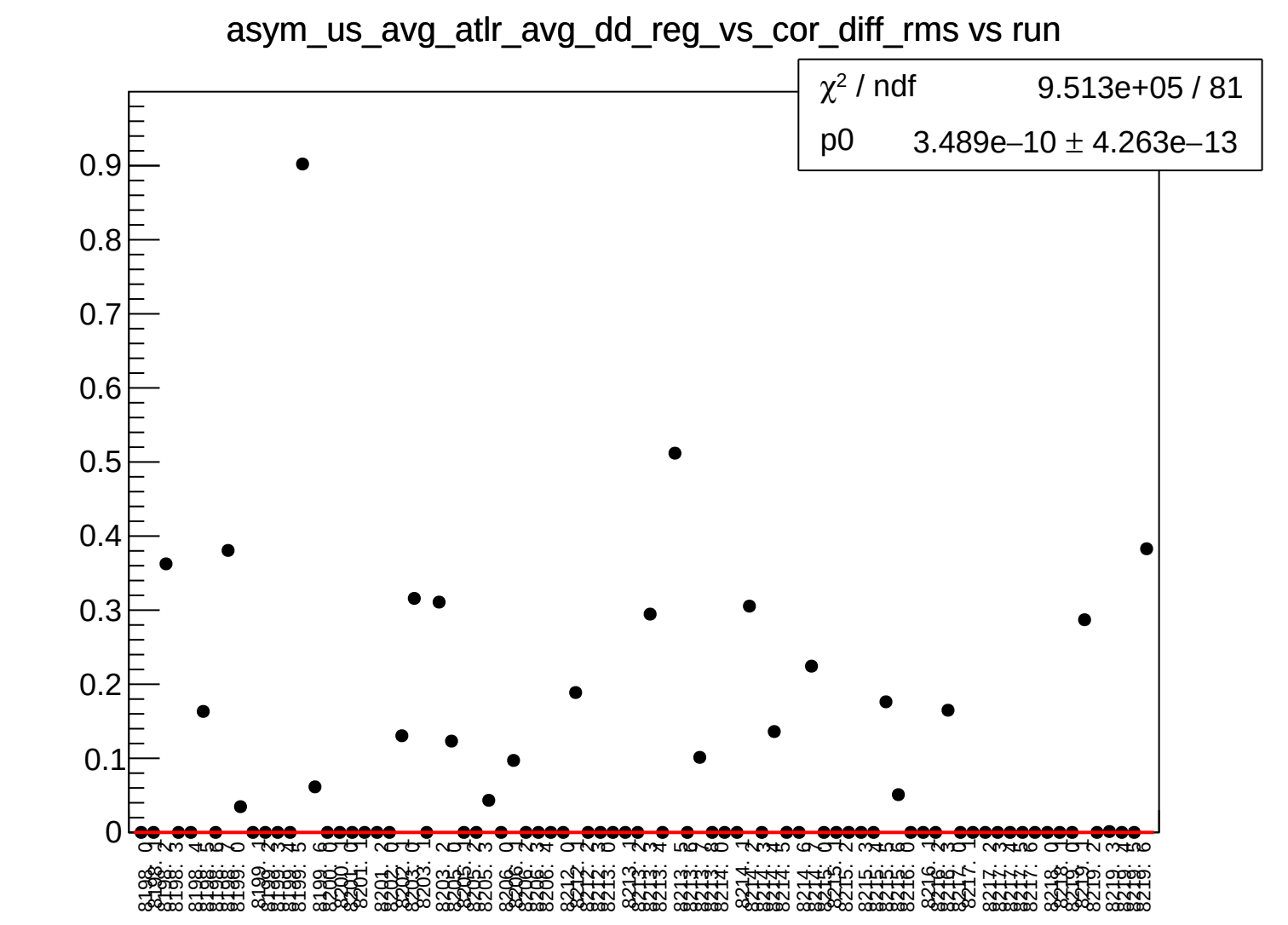

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.097e+04 / 81
p0 4814 ± 3.794
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

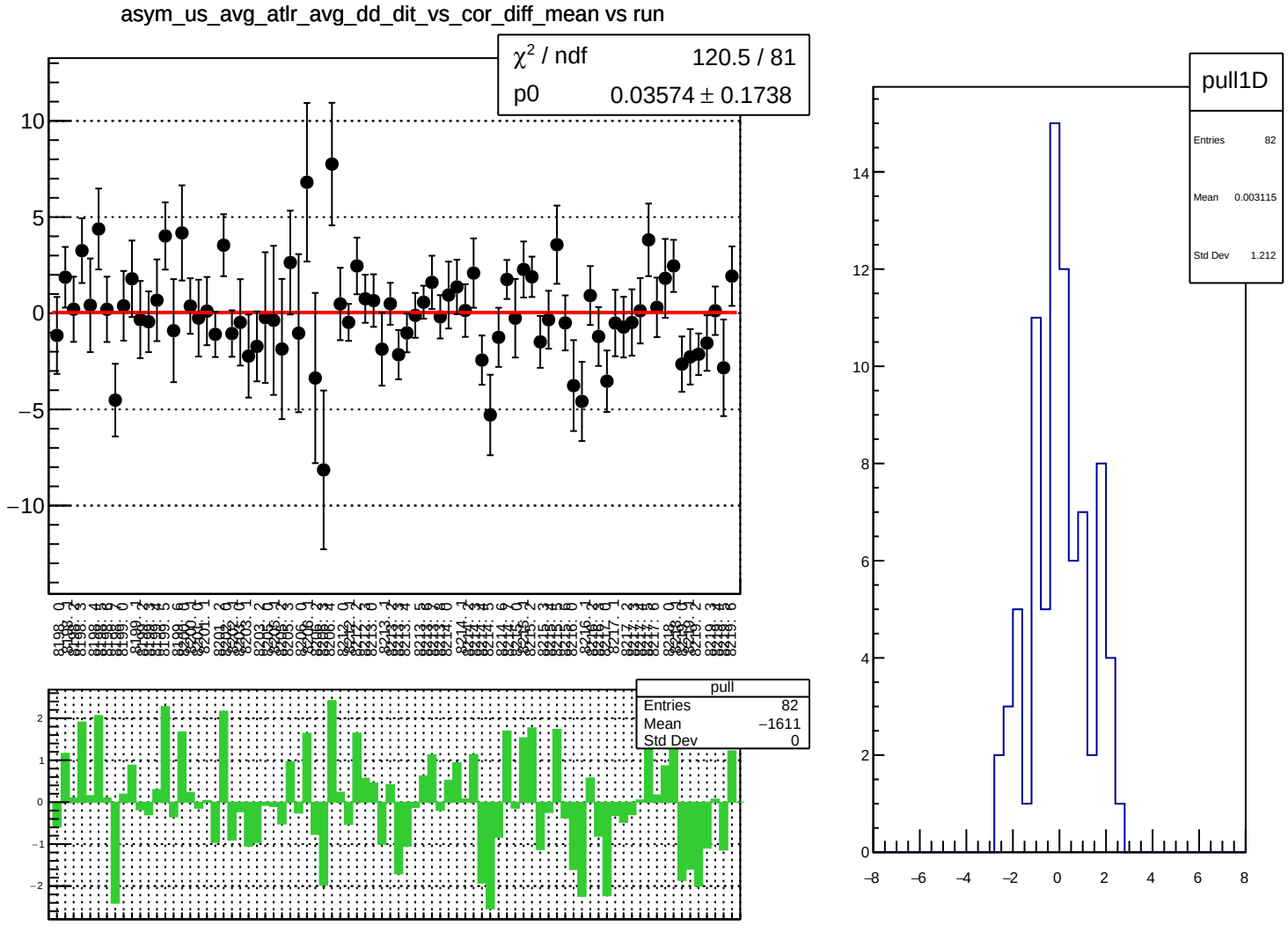

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 100 / 81
p0 1620 ± 5582
pull
Entries 82
Mean 45.46
Std Dev 0

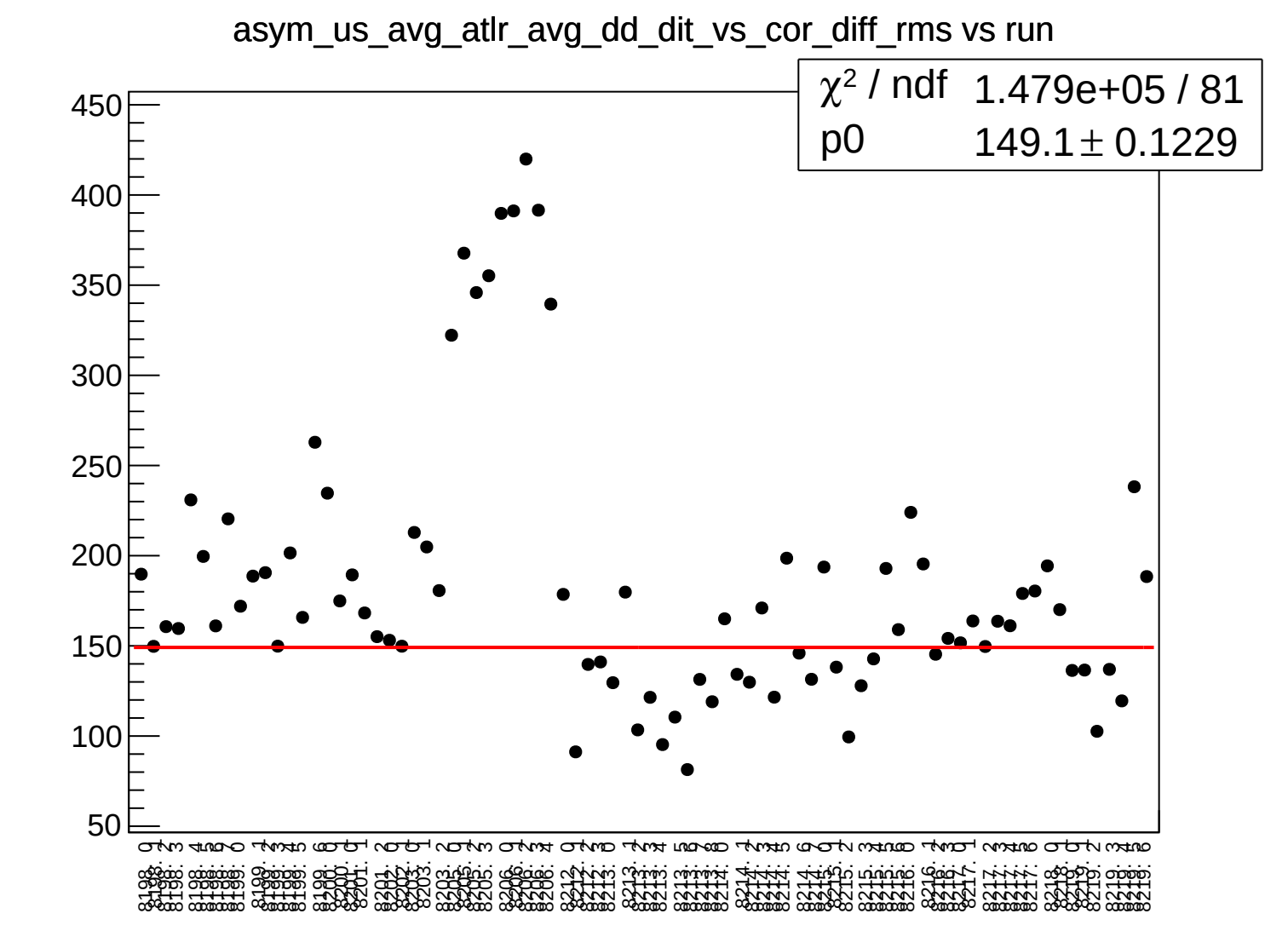

pull1D
Entries 82
Mean −0.01113
Std Dev 1.104

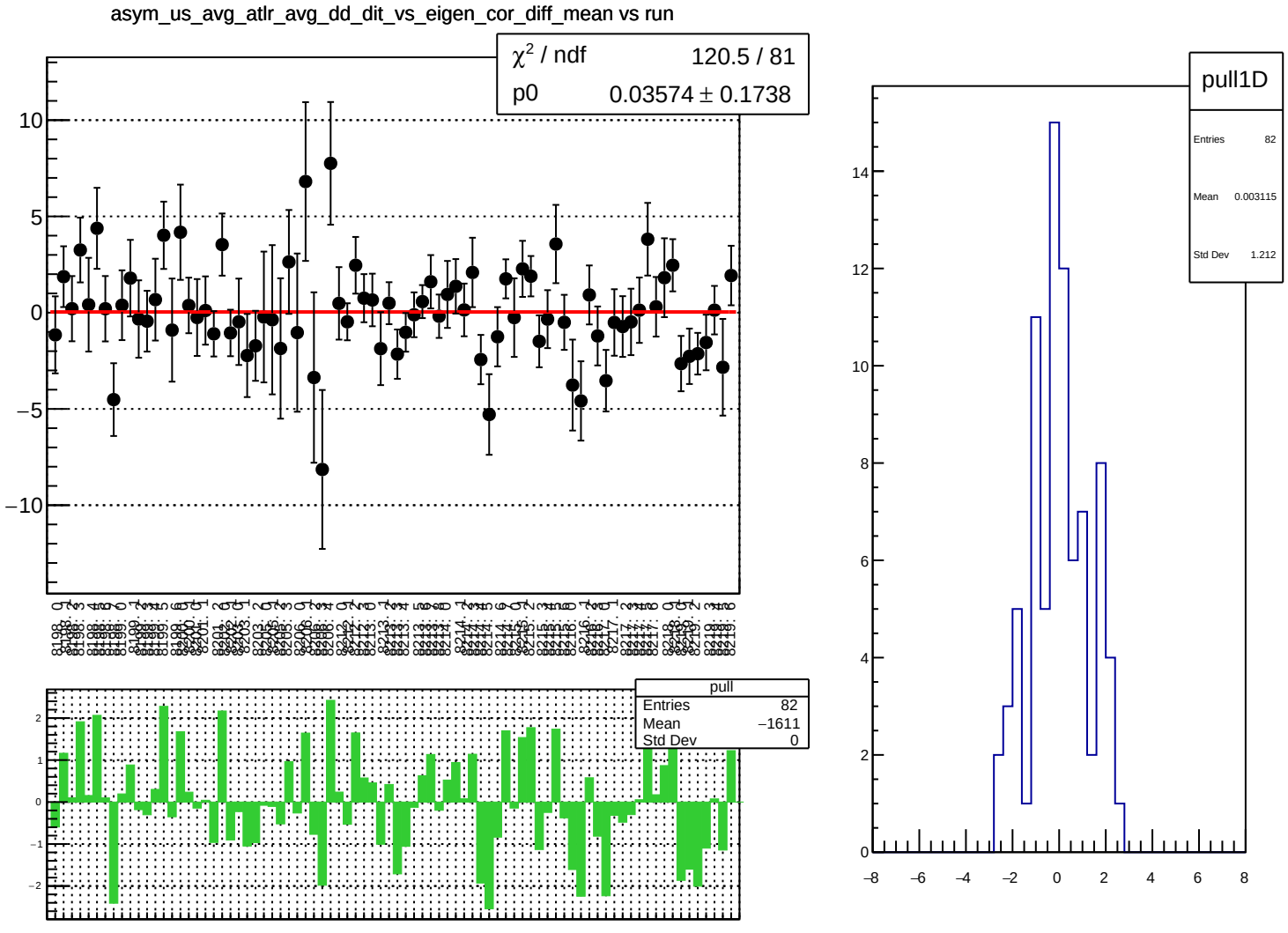

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 8665 / 81
p0 5013 ± 3.947
6000
5800
5600
5400
5200
5000
4800
4600
4400

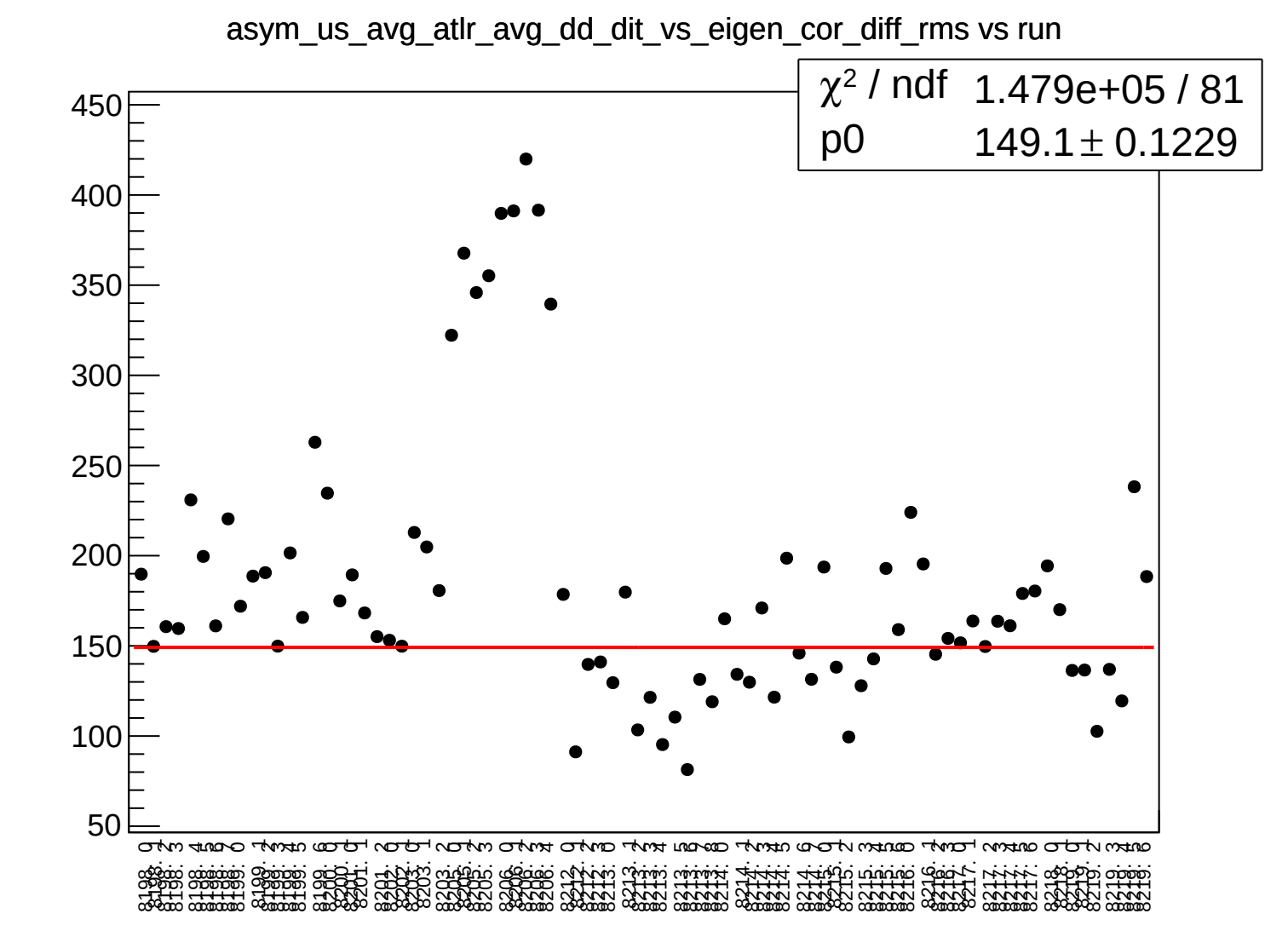

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.37 / 81
p0 −2.147e−13 ± 6.029e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 82
Mean 22.93
Std Dev 33.51
3
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.1152
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

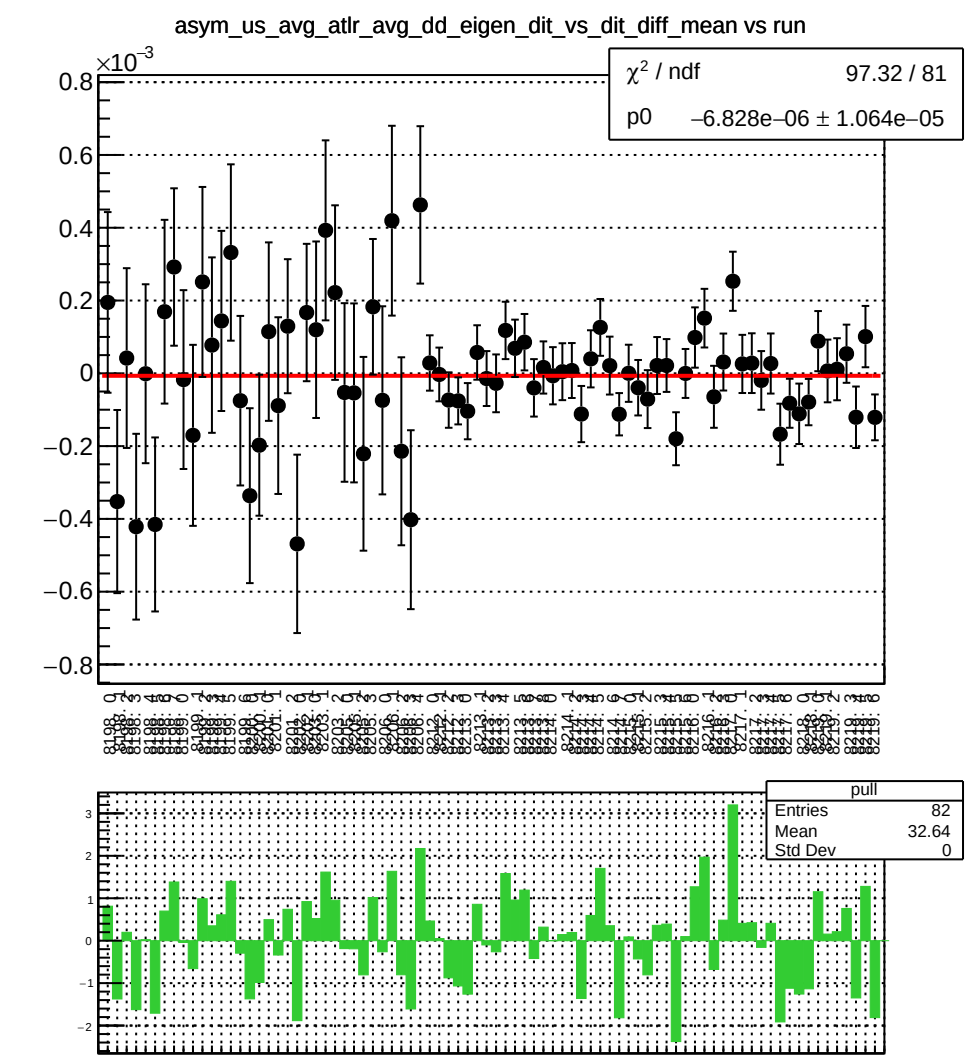

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.513e+05 / 81
p0 3.489e−10 ± 4.263e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

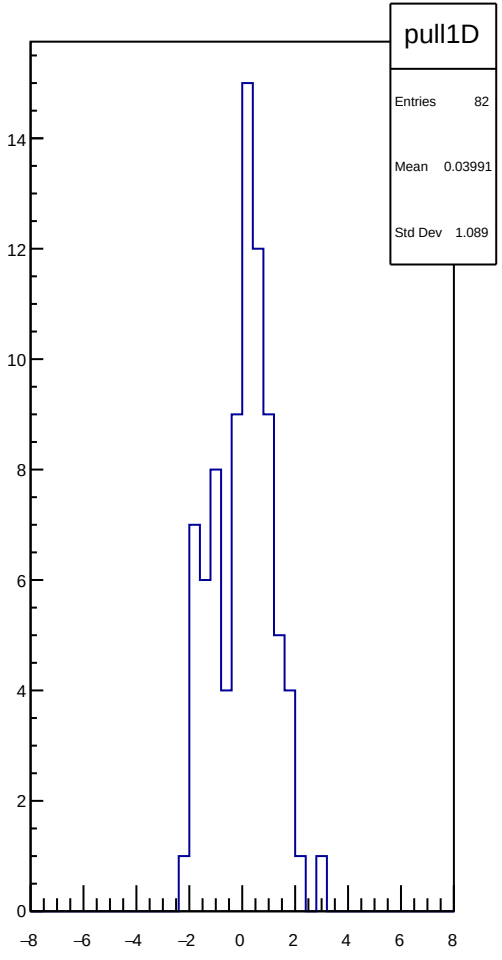

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 120.5 / 81
p0 0.03574 ± 0.1738
pull
Entries 82
Mean −1611
Std Dev 0
pull1D
Entries 82
Mean 0.003115
Std Dev 1.212

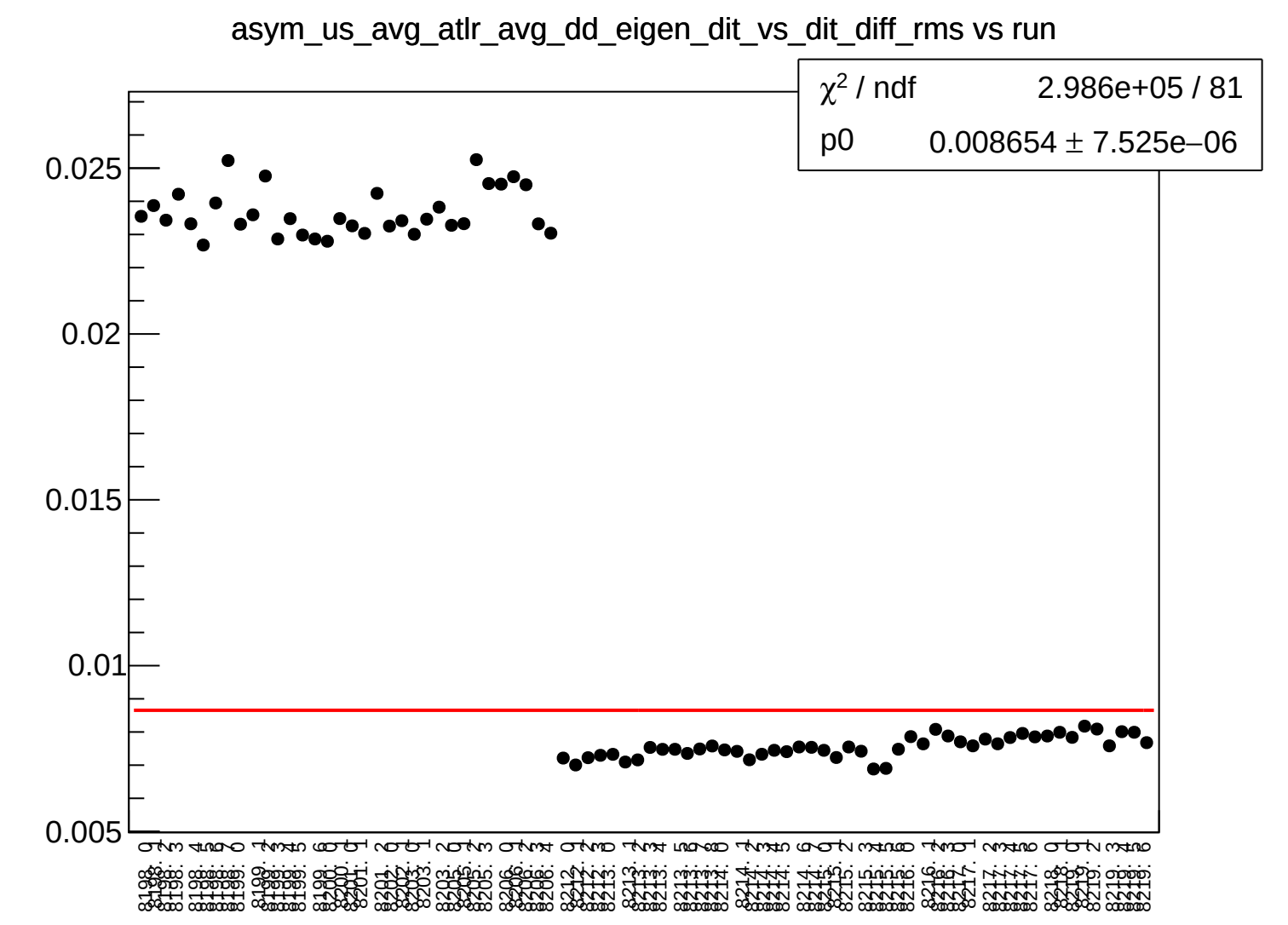

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 81
p0 149.1 ± 0.1229
450
400
350
300
250
200
150
100
50

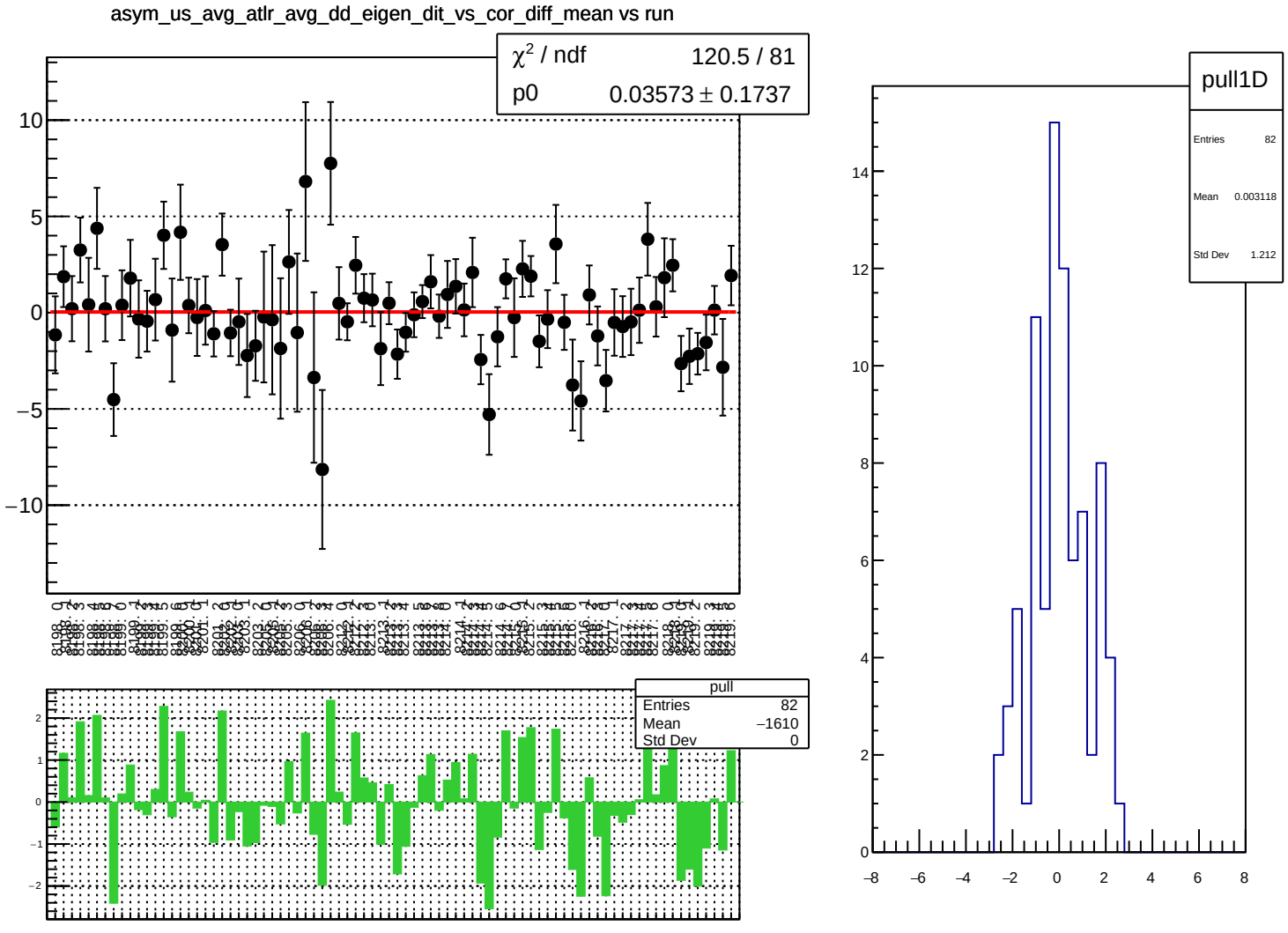

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.5 / 81
p0 0.03574 ± 0.1738
pull
Entries 82
Mean −1611
Std Dev 0
pull1D
Entries 82
Mean 0.003115
Std Dev 1.212

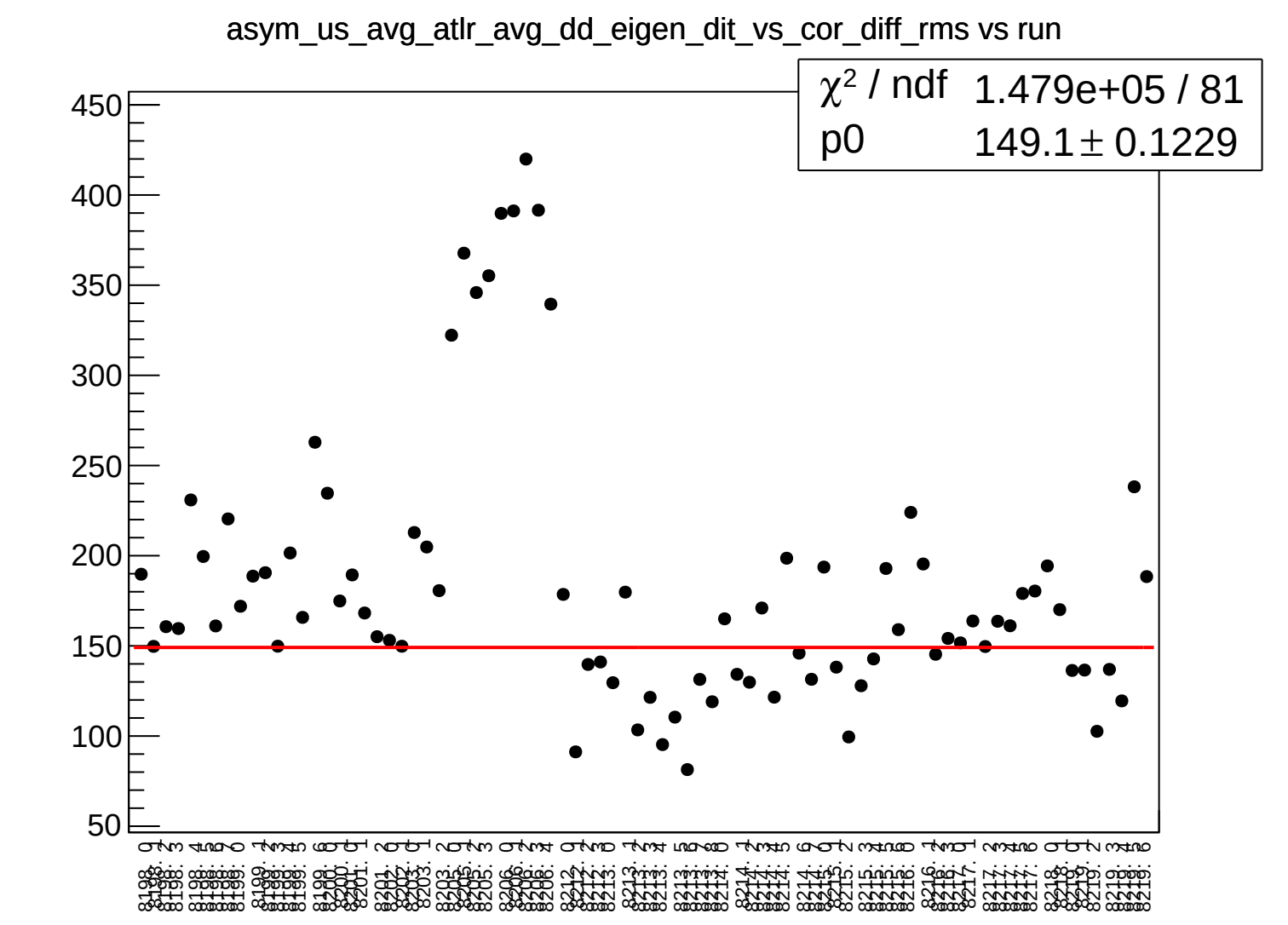

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 81
p0 149.1 ± 0.1229
450
400
350
300
250
200
150
100
50

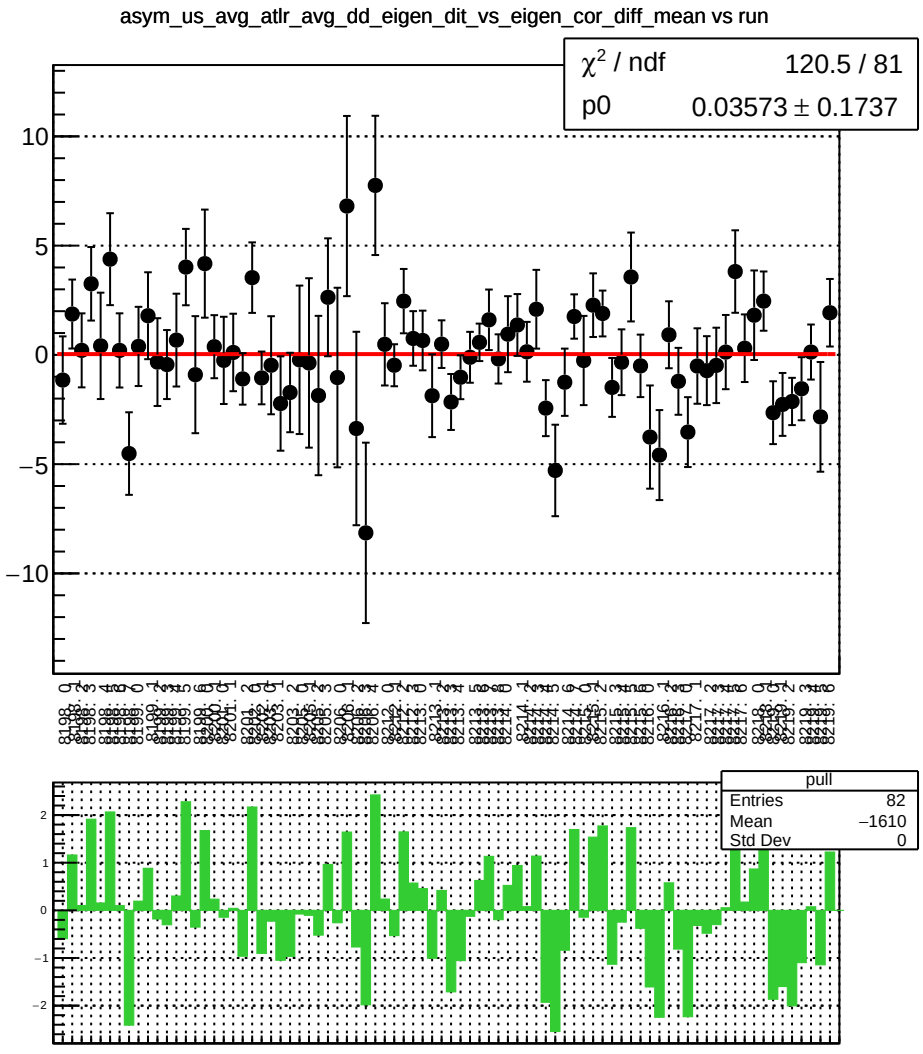

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.32 / 81
p0 −6.828e−06 ± 1.064e−05
pull
Entries 82
Mean 32.64
Std Dev 0

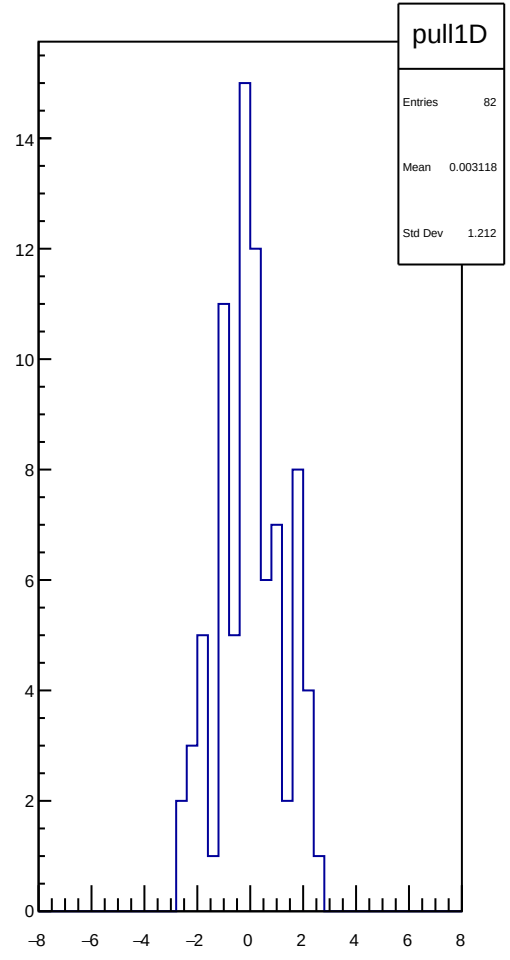

pull1D
Entries 82
Mean 0.03991
Std Dev 1.089

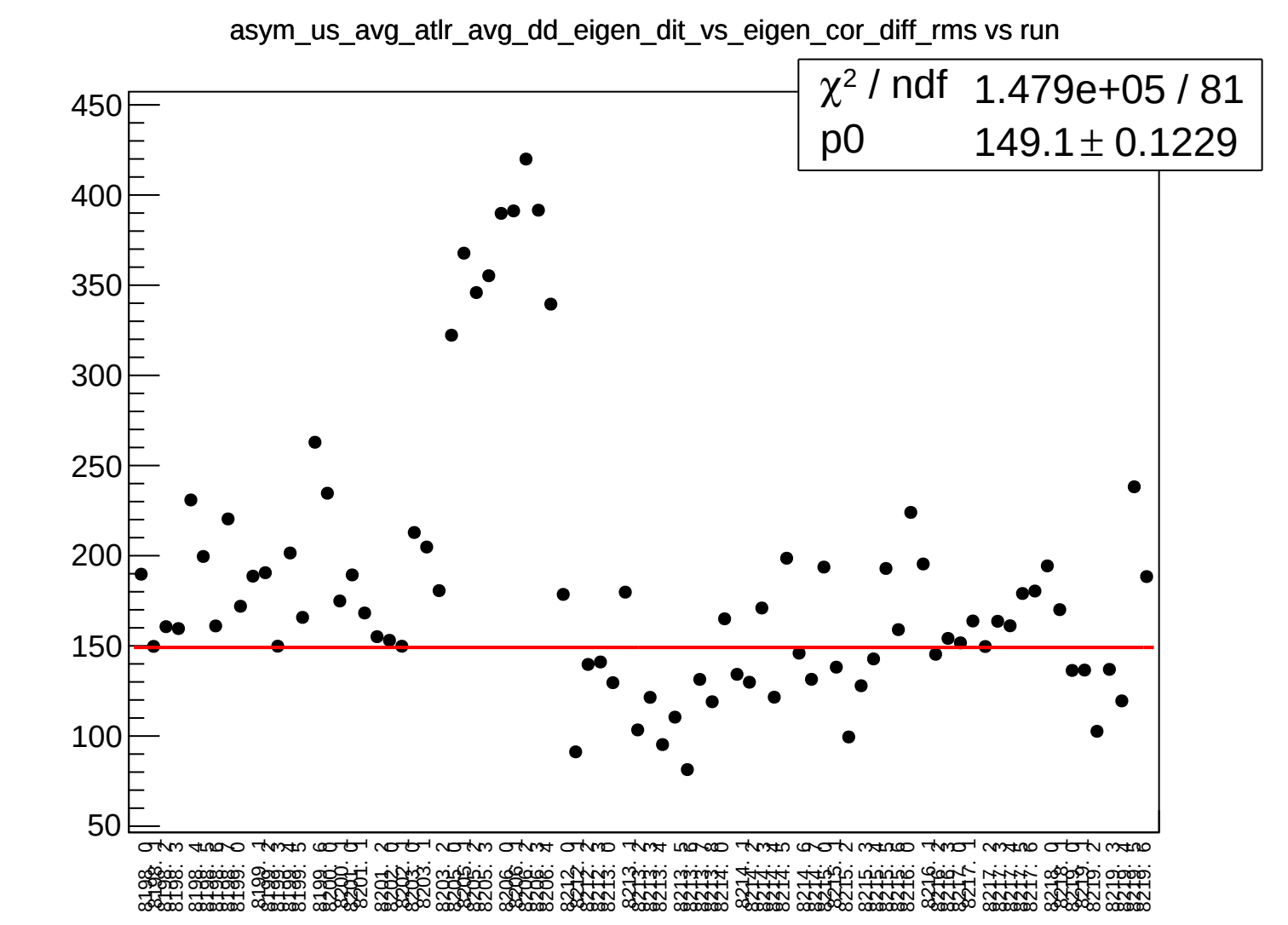

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.986e+05 / 81
p0 0.008654 ± 7.525e−06
0.025
0.02
0.015
0.01
0.005

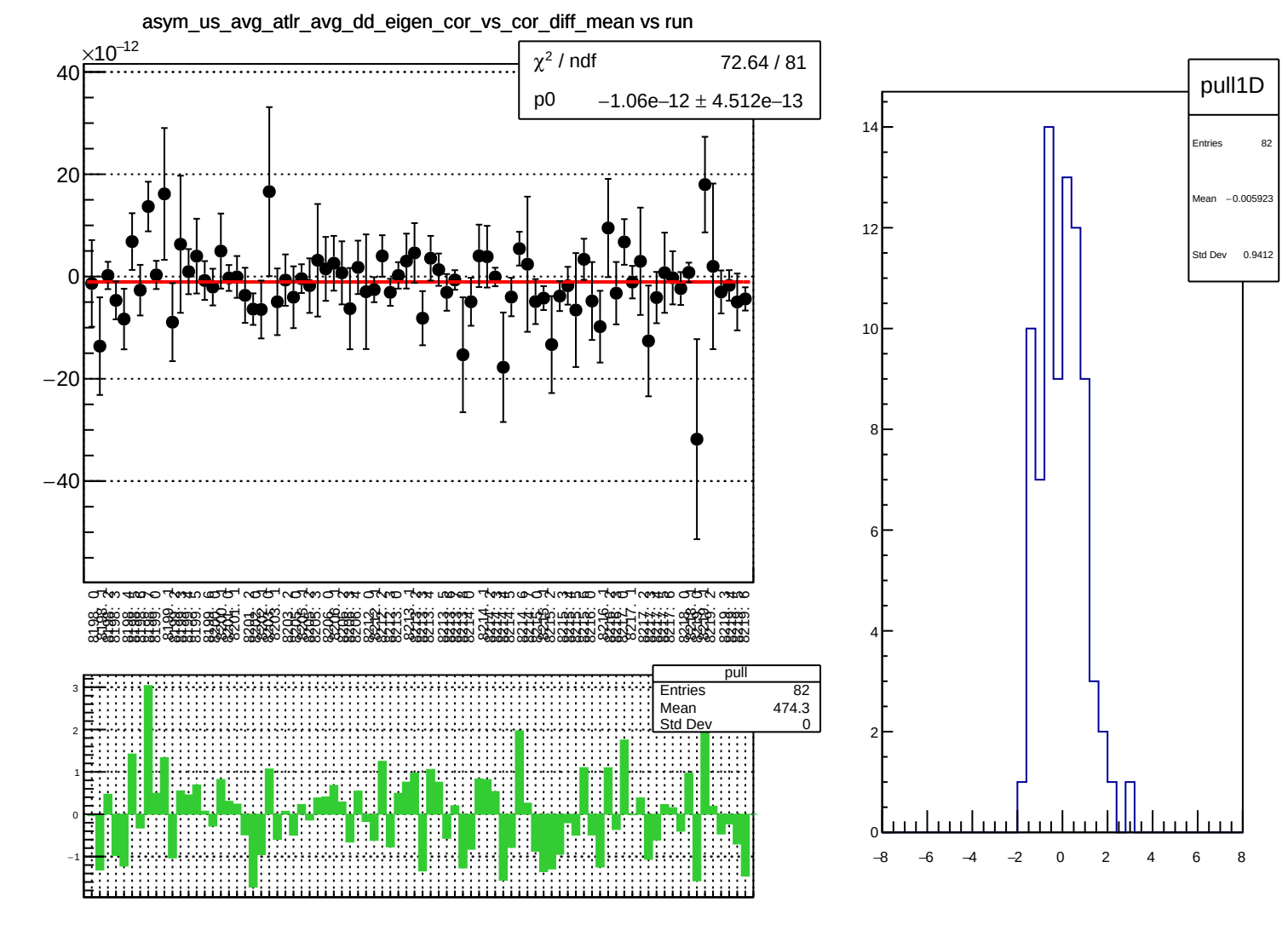

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 120.5 / 81
p0 0.03573 ± 0.1737
pull
Entries 82
Mean −1610
Std Dev 0
pull1D
Entries 82
Mean 0.003118
Std Dev 1.212

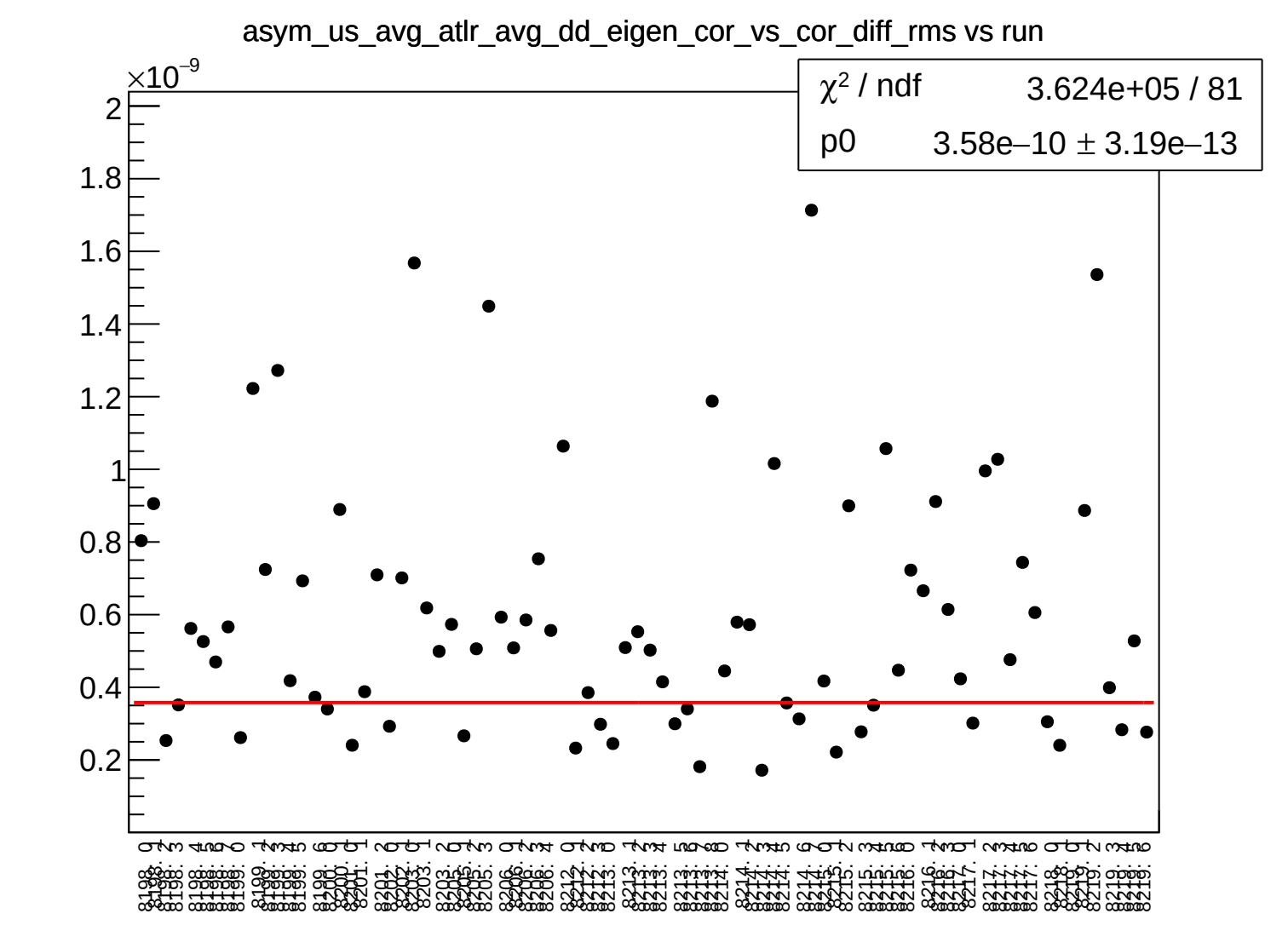

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 81
p0 149.1 ± 0.1229
450
400
350
300
250
200
150
100
50

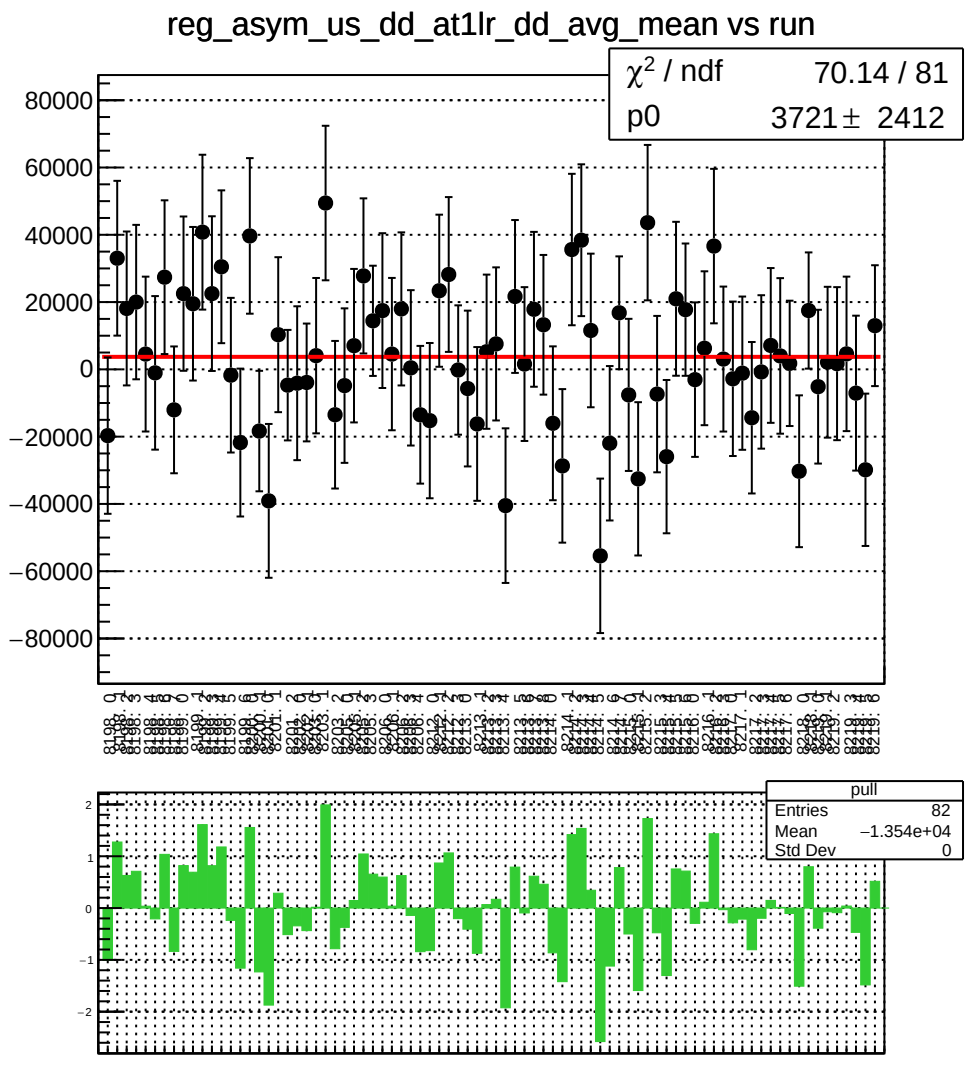

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.5 / 81
p0 0.03573 ± 0.1737
pull
Entries 82
Mean −1610
Std Dev 0

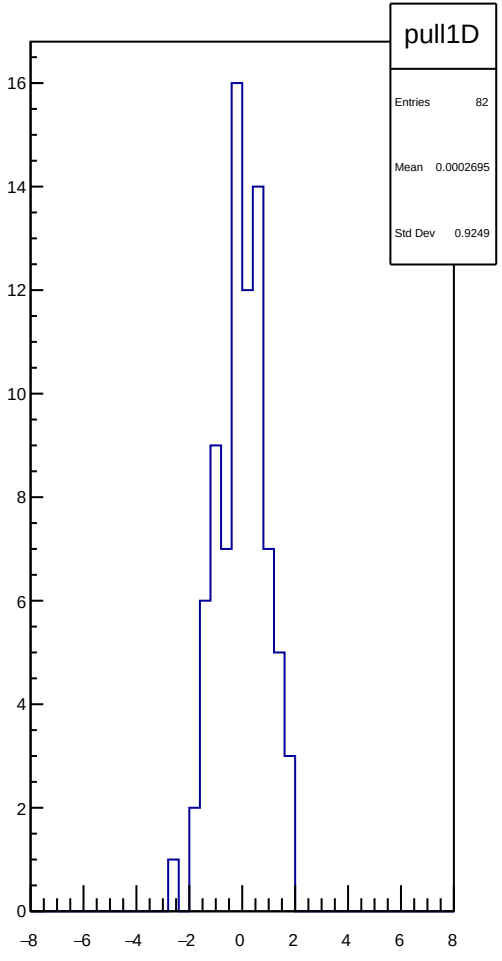

pull1D
Entries 82
Mean 0.003118
Std Dev 1.212

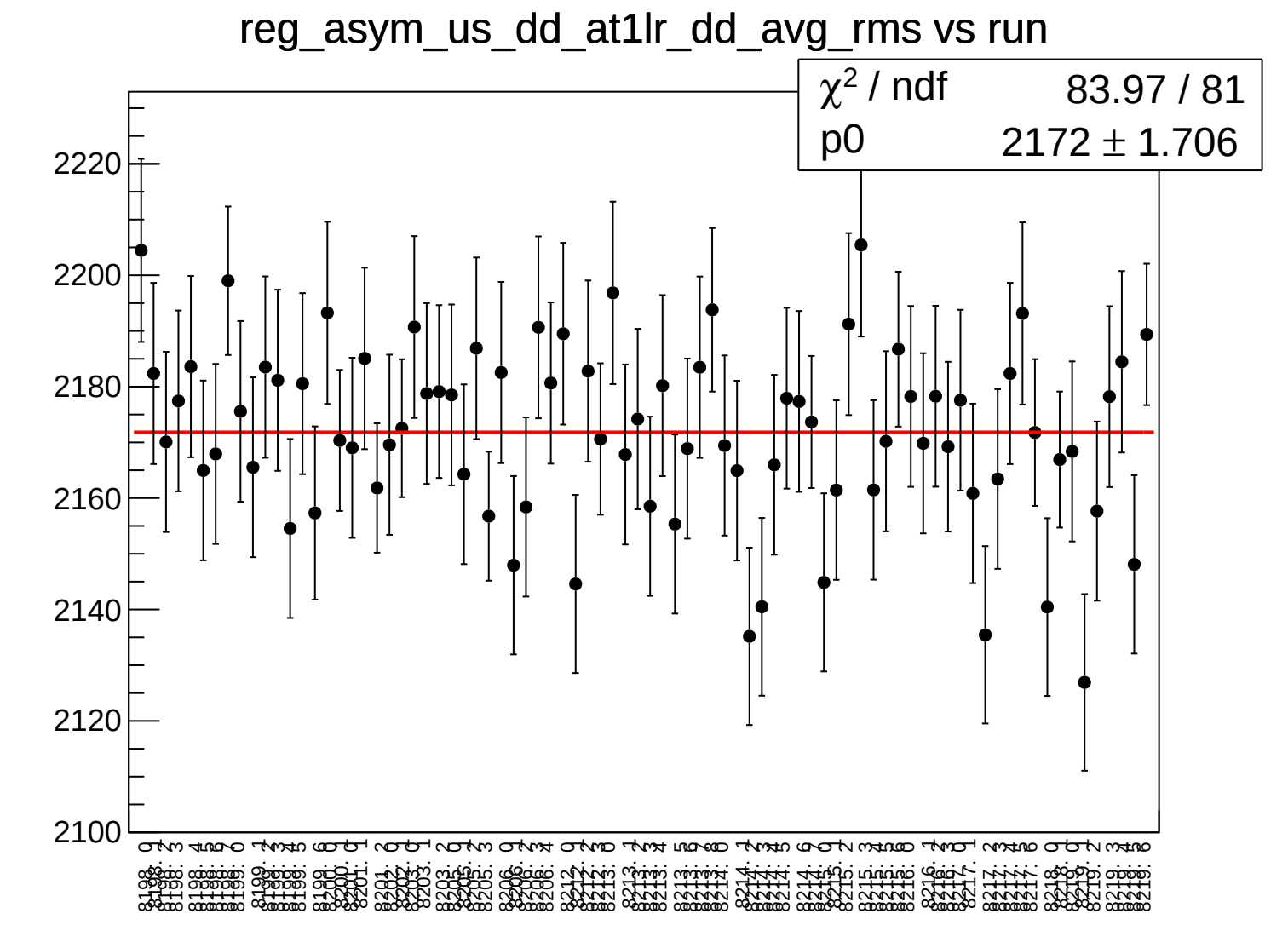

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 81
p0 149.1 ± 0.1229
450
400
350
300
250
200
150
100
50

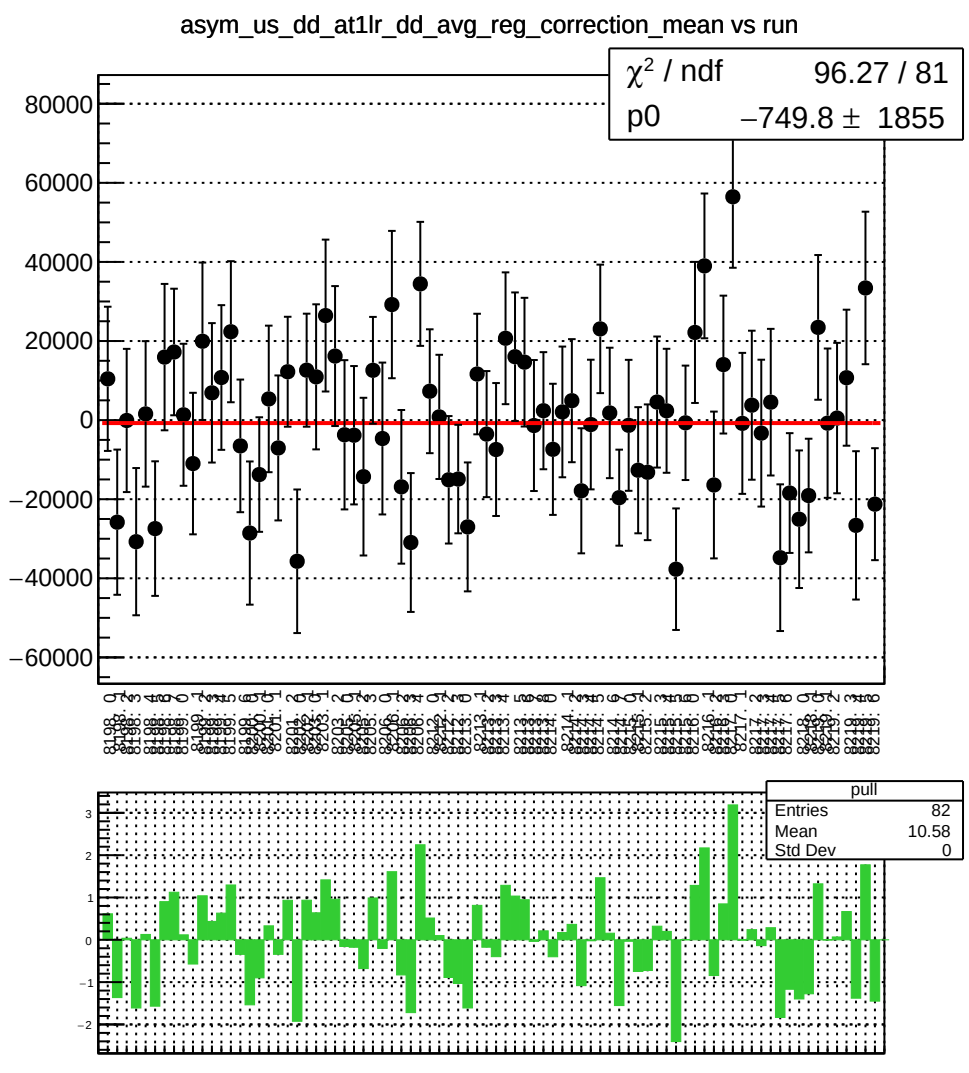

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.64 / 81
p0 −1.06e−12 ± 4.512e−13
40
20
0
−20
−40
pull
Entries 82
Mean 474.3
Std Dev 0
3
2
1
0
−1
pull1D
Entries 82
Mean −0.005923
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

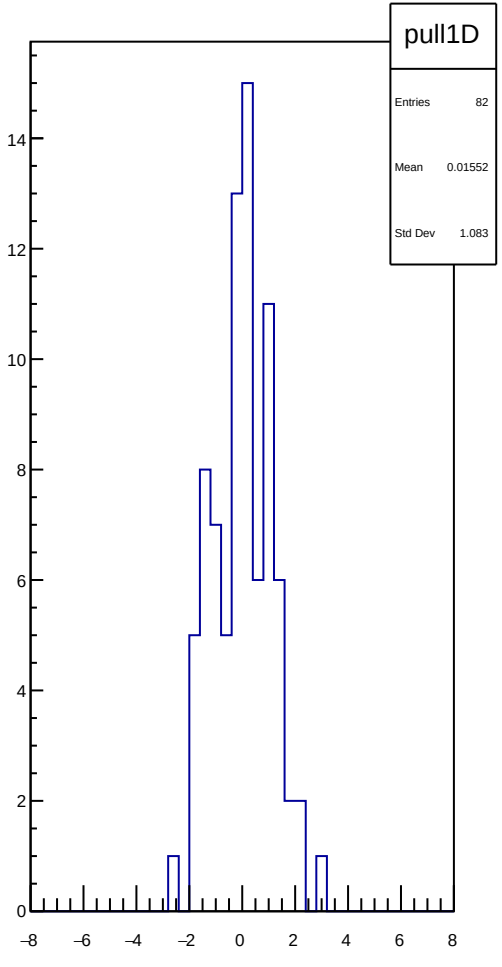

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.624e+05 / 81
p0 3.58e−10 ± 3.19e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

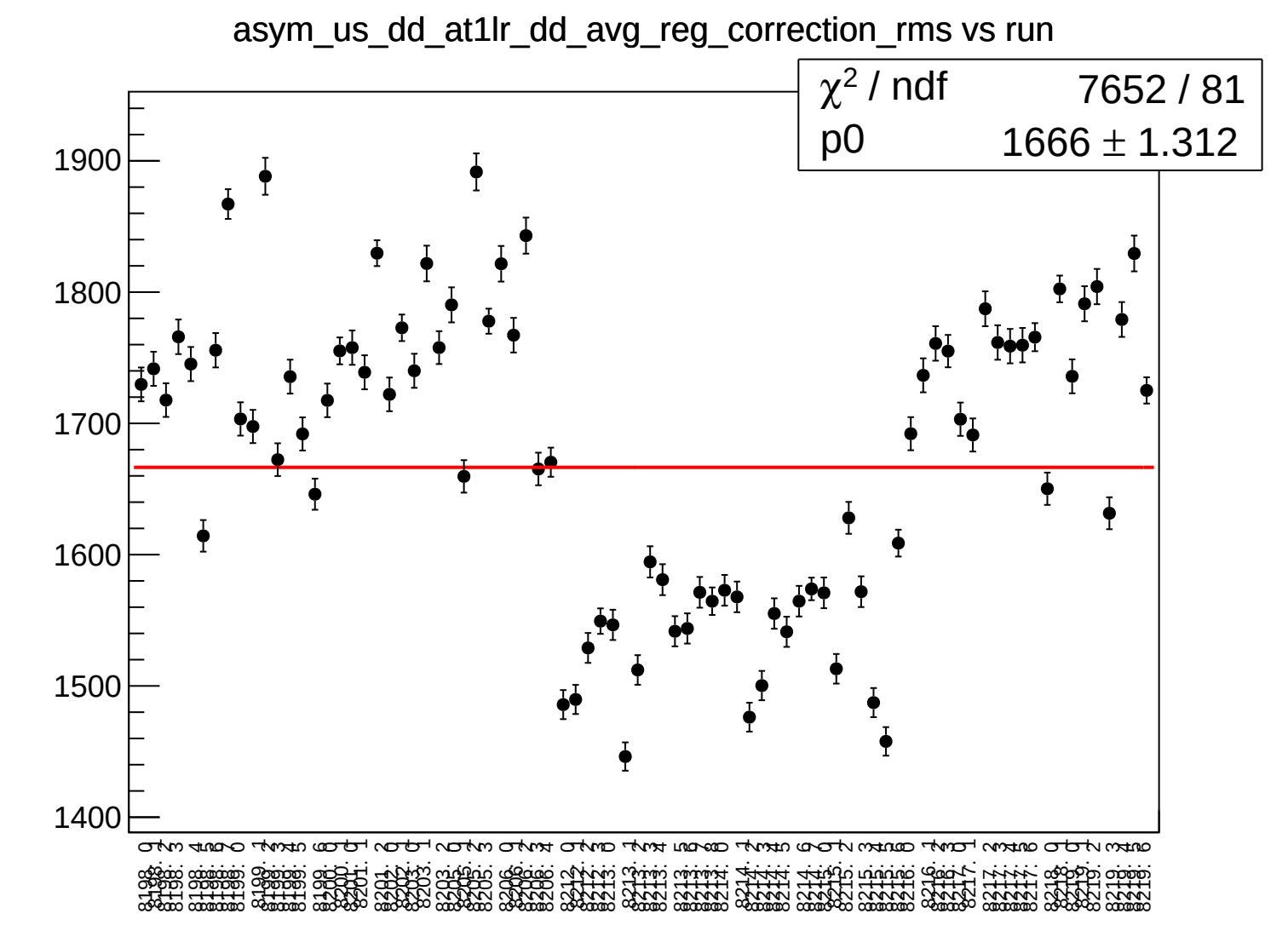

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 70.14 / 81
p0 3721 ± 2412
pull
Entries 82
Mean −1.354e+04
Std Dev 0

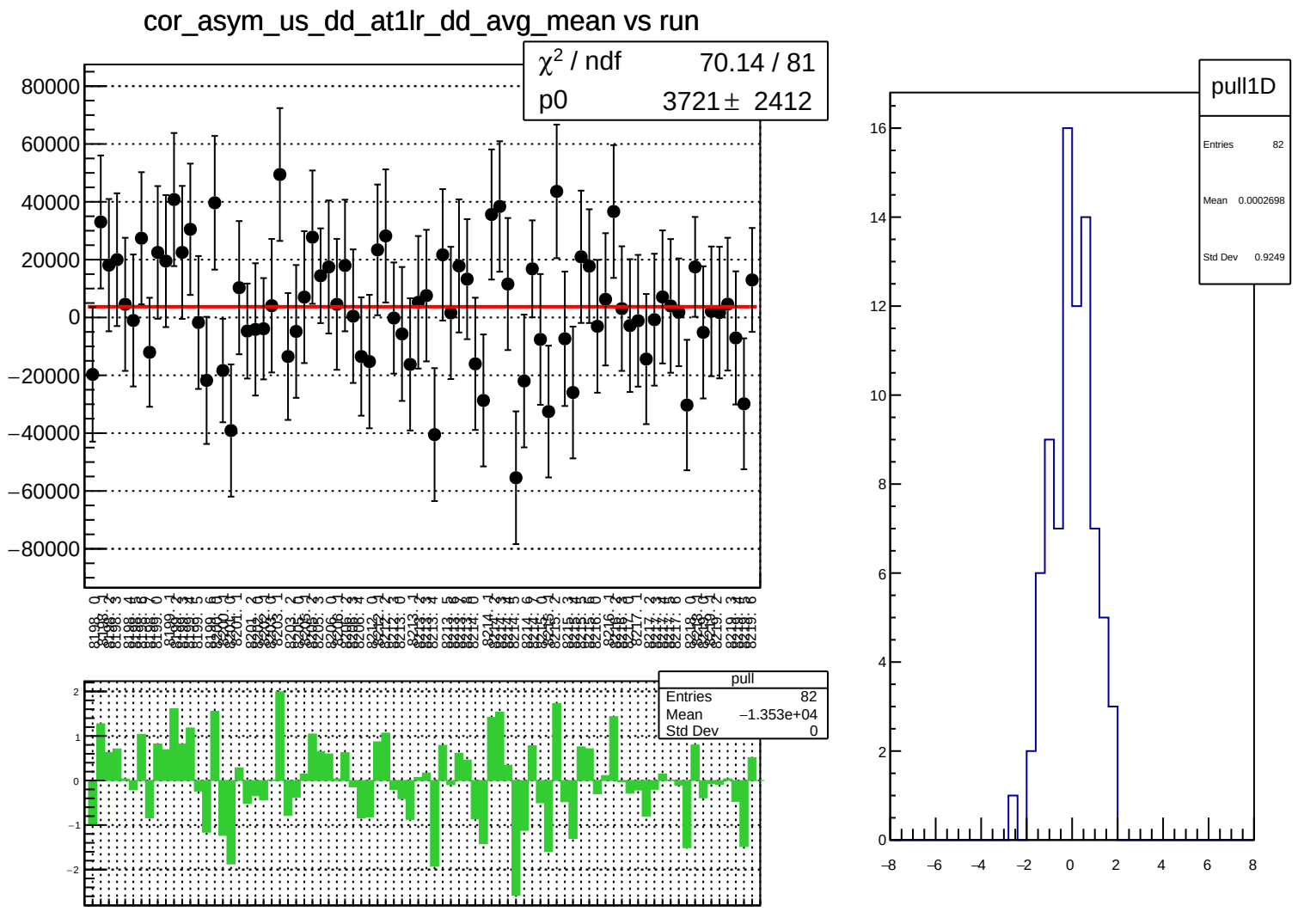

pull1D
Entries 82
Mean 0.0002695
Std Dev 0.9249

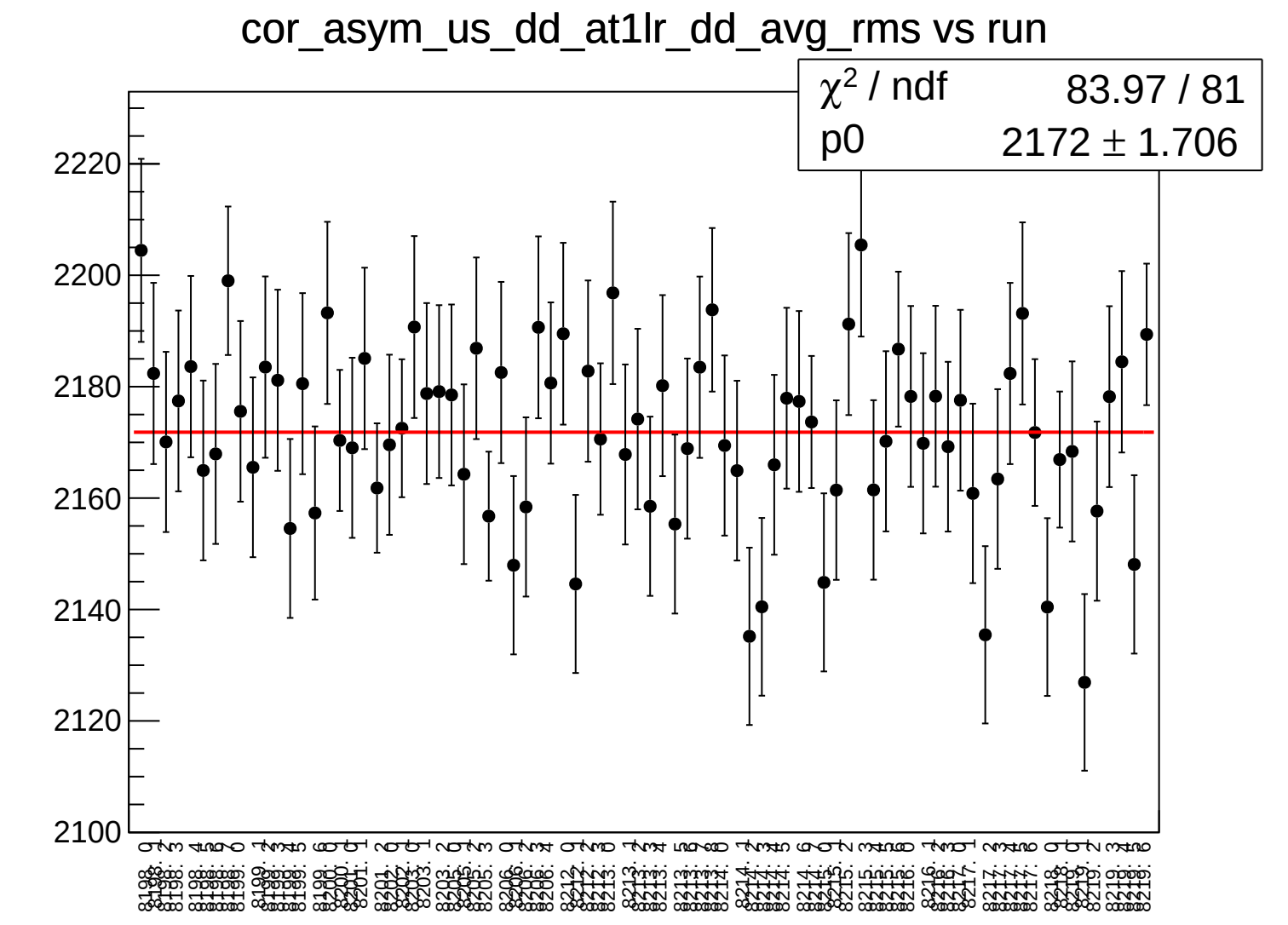

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 83.97 / 81
p0 2172 ± 1.706
2220
2200
2180
2160
2140
2120
2100

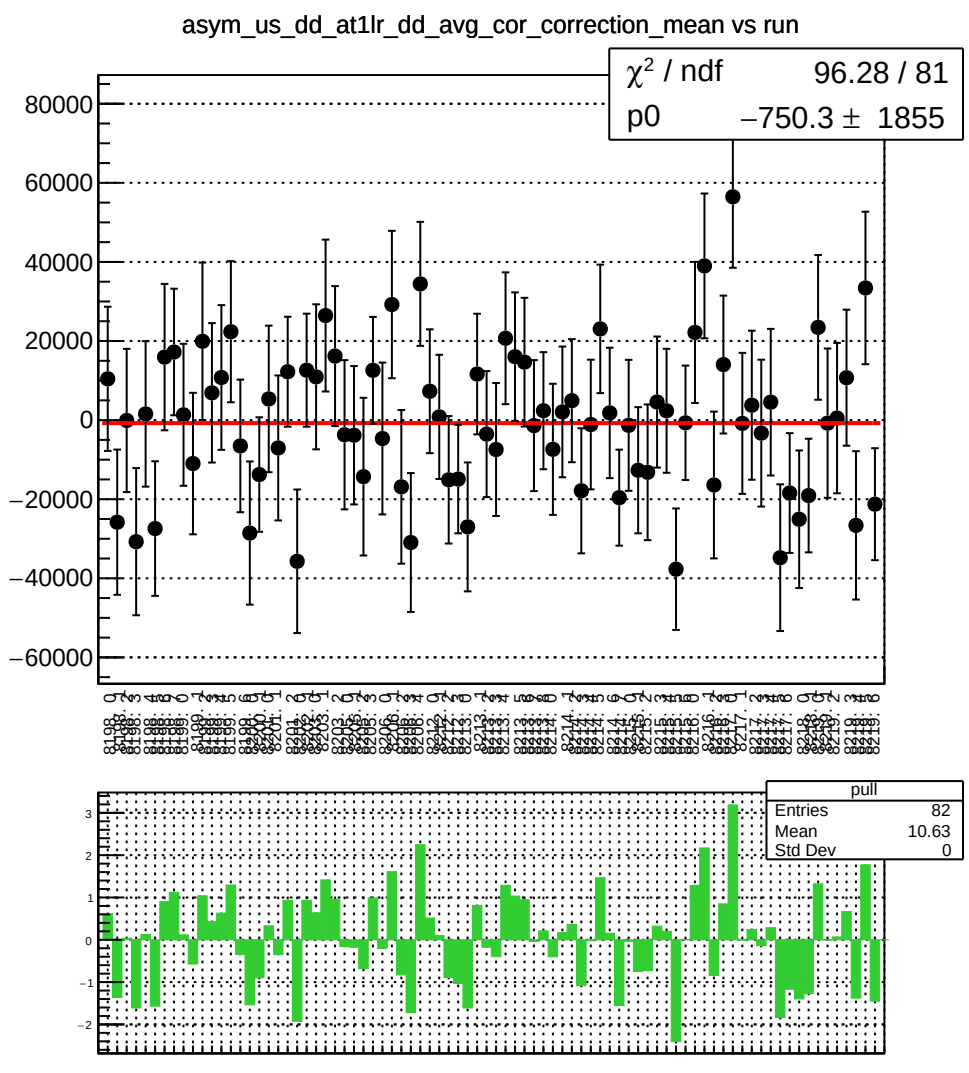

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 96.27 / 81
p0 −749.8 ± 1855
pull
Entries 82
Mean 10.58
Std Dev 0

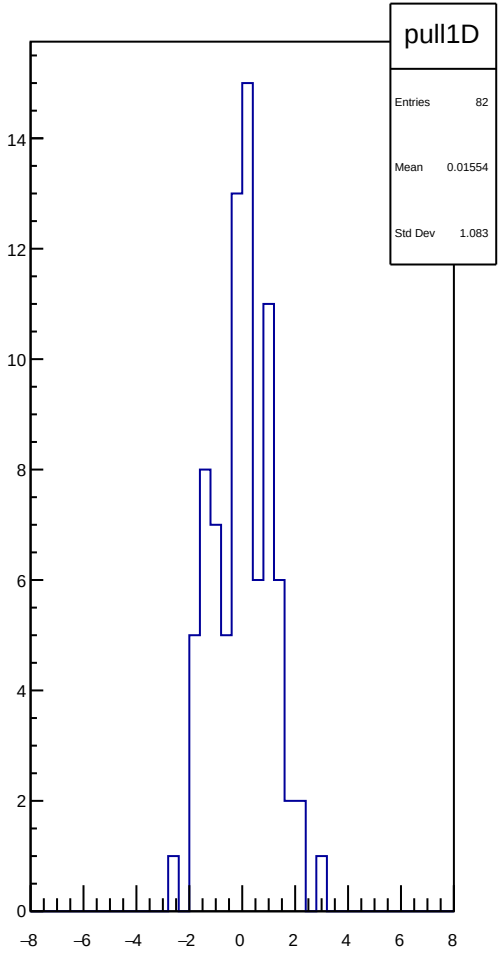

pull1D
Entries 82
Mean 0.01552
Std Dev 1.083

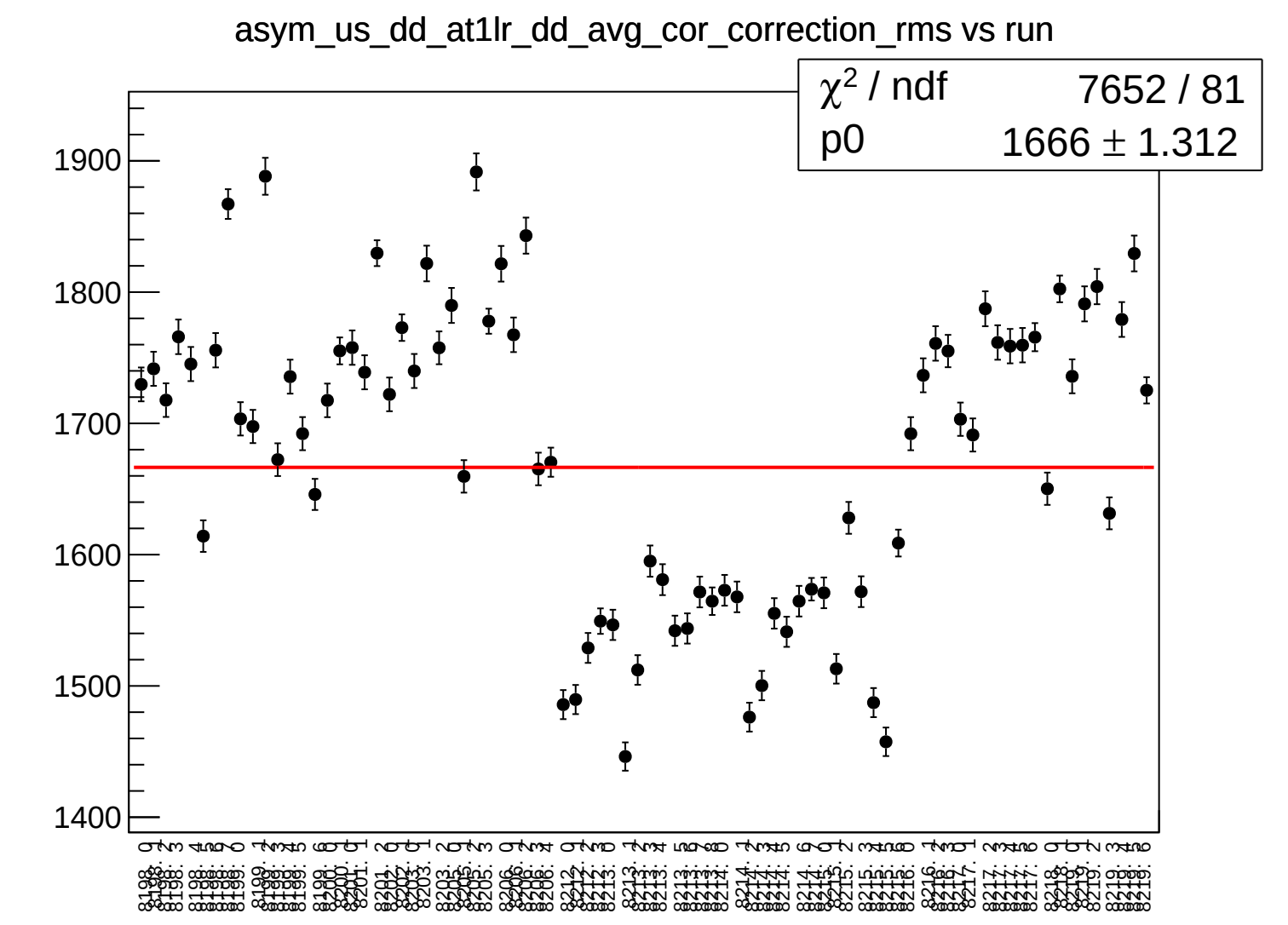

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 7652 / 81
p0 1666 ± 1.312
1900
1800
1700
1600
1500
1400

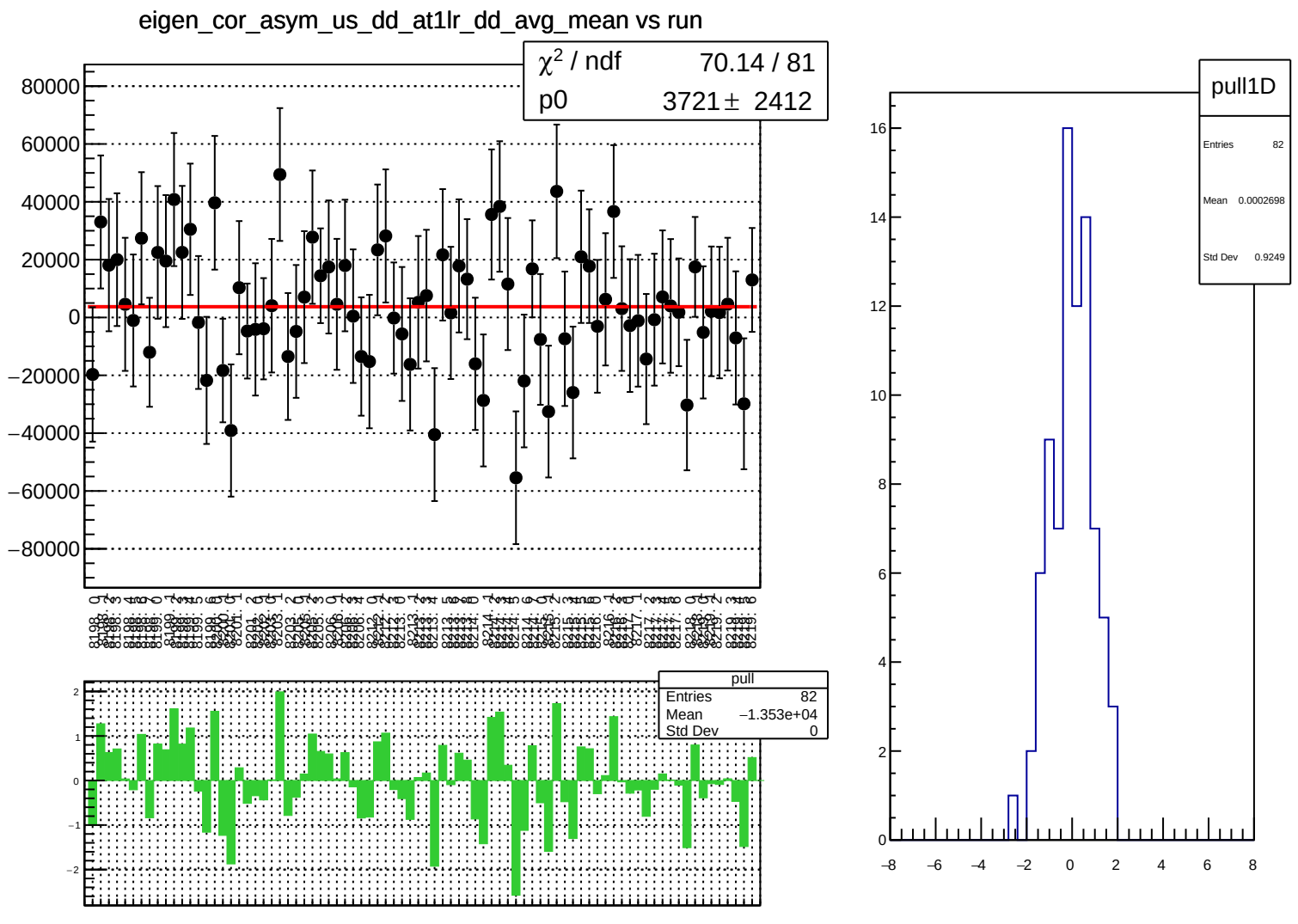

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 70.14 / 81
p0 3721 ± 2412
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean −1.353e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.0002698
Std Dev 0.9249
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

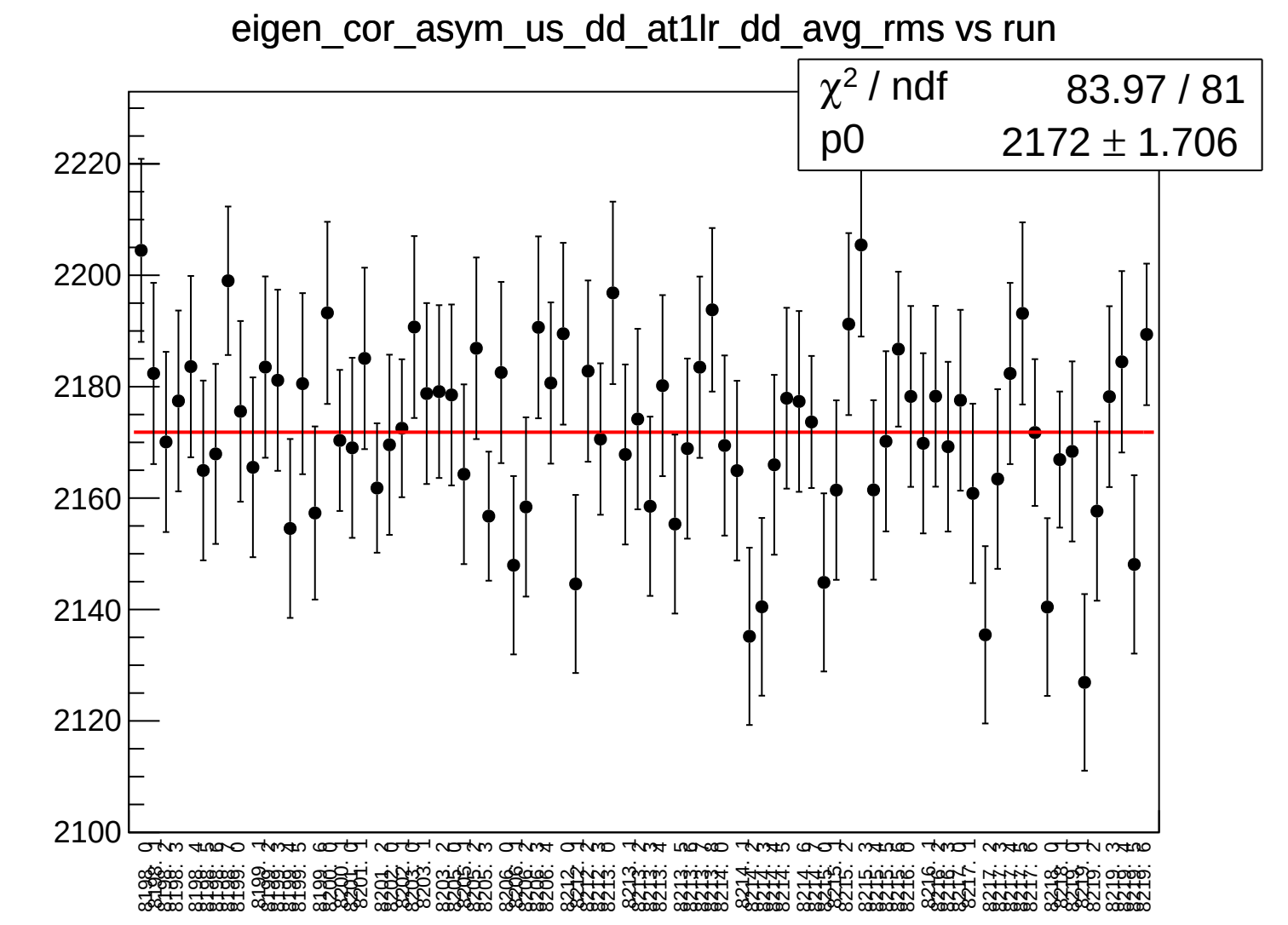

cor_asym_us_dd_at1lr_dd_avg_rms vs run
$\chi^2$ / ndf 83.97 / 81
p0 2172 ± 1.706
2220
2200
2180
2160
2140
2120
2100

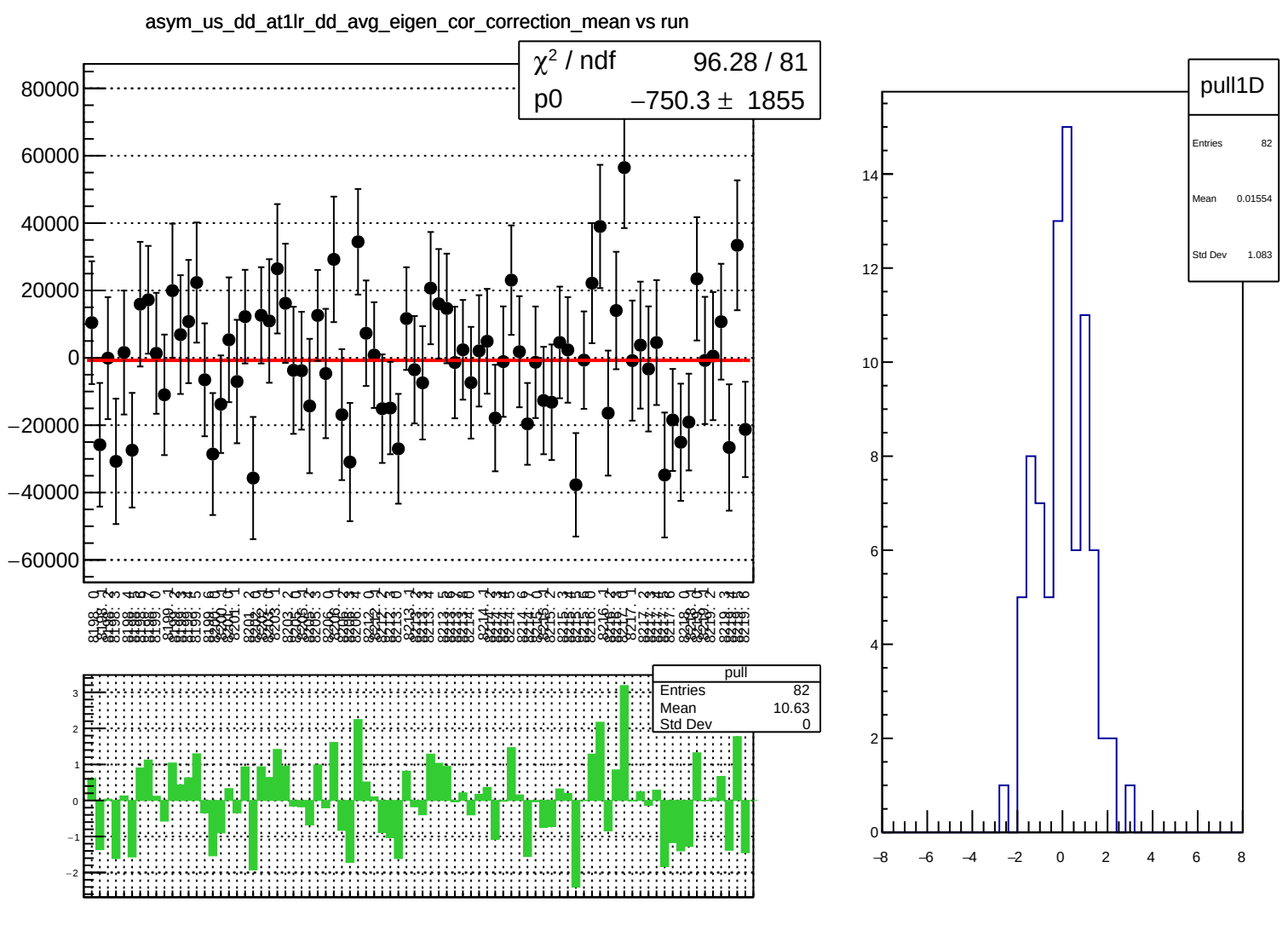

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 96.28 / 81
p0 −750.3 ± 1855
pull
Entries 82
Mean 10.63
Std Dev 0

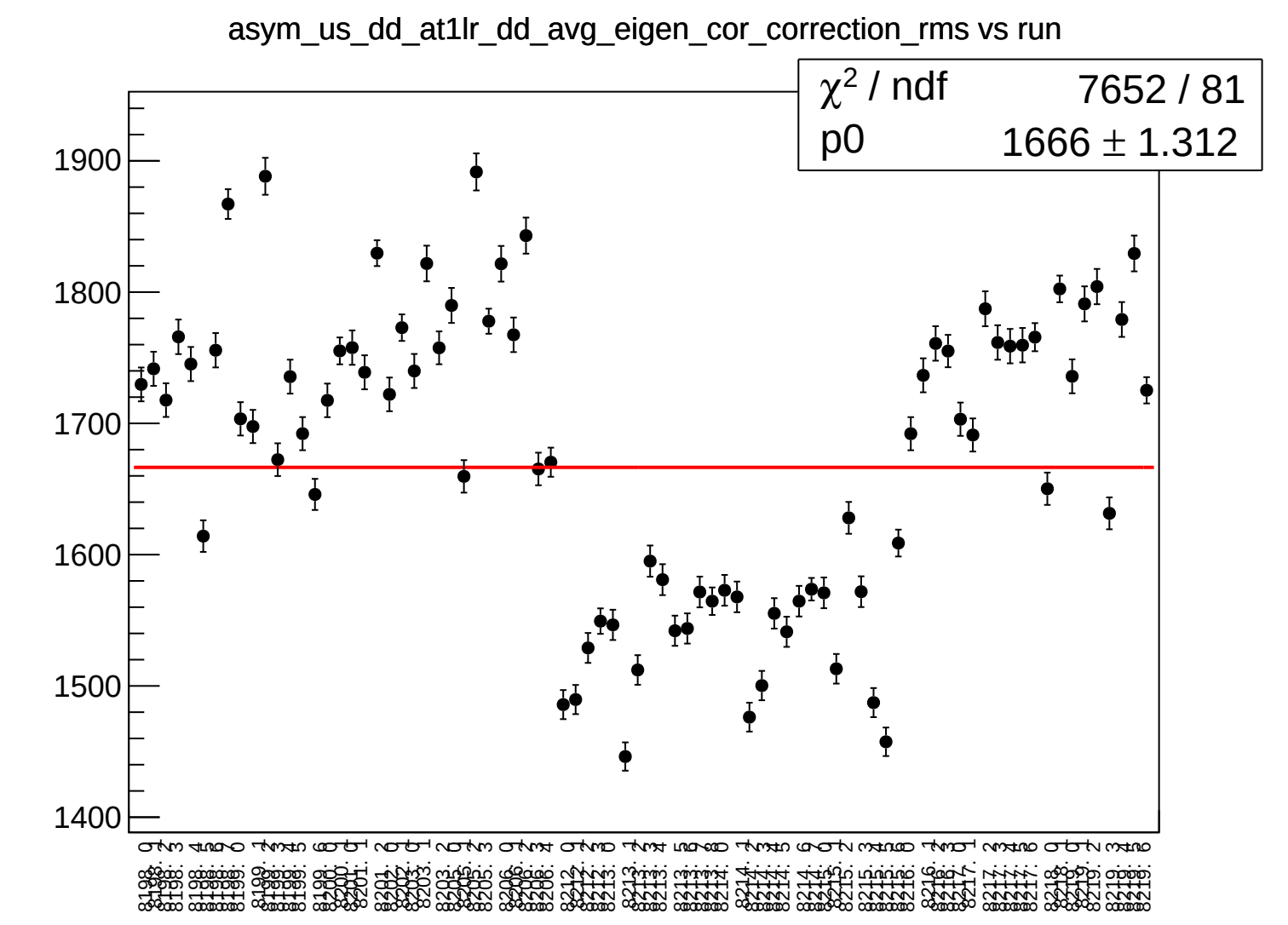

pull1D
Entries 82
Mean 0.01554
Std Dev 1.083

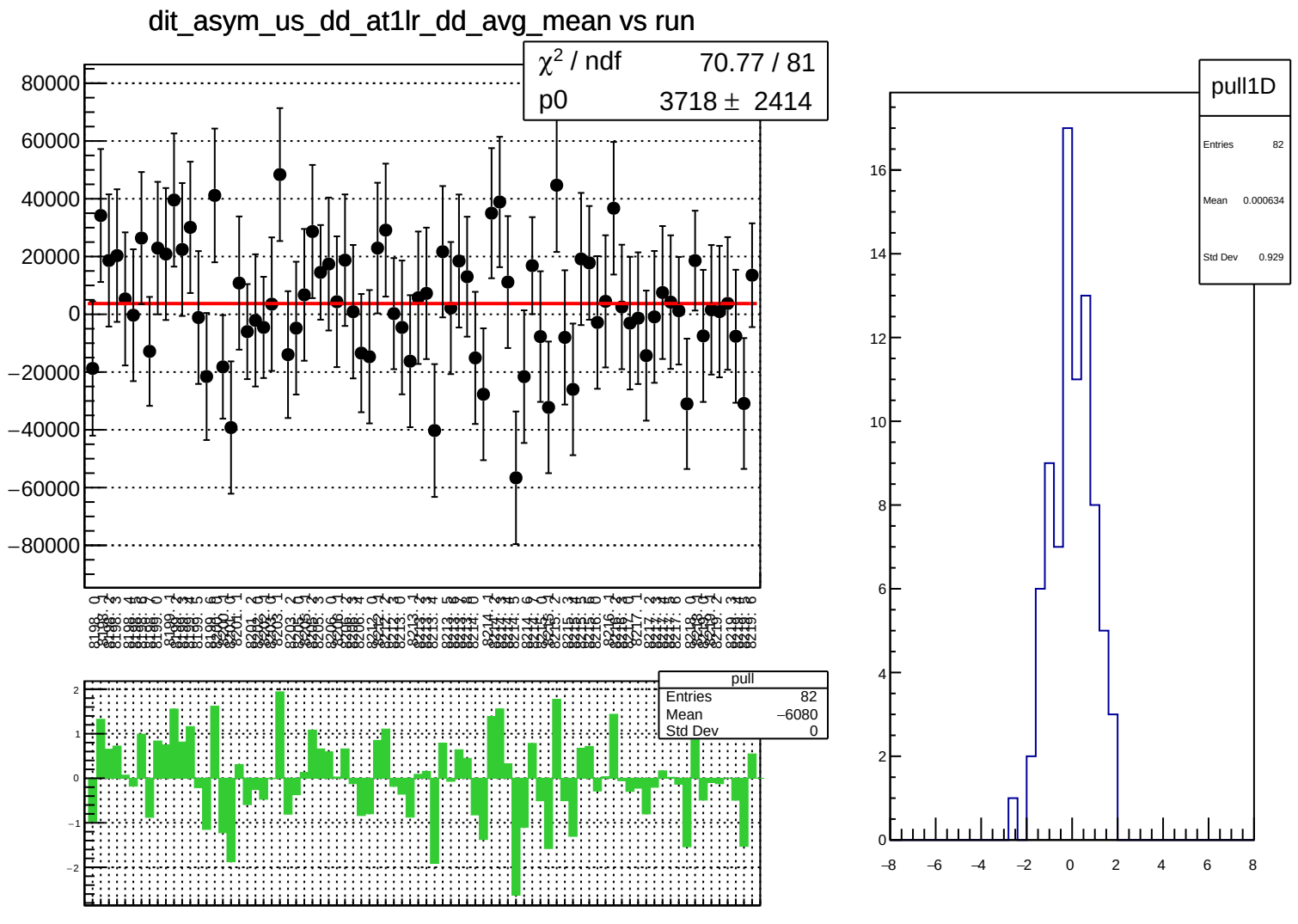

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 7652 / 81
p0 1666 ± 1.312
1900
1800
1700
1600
1500
1400

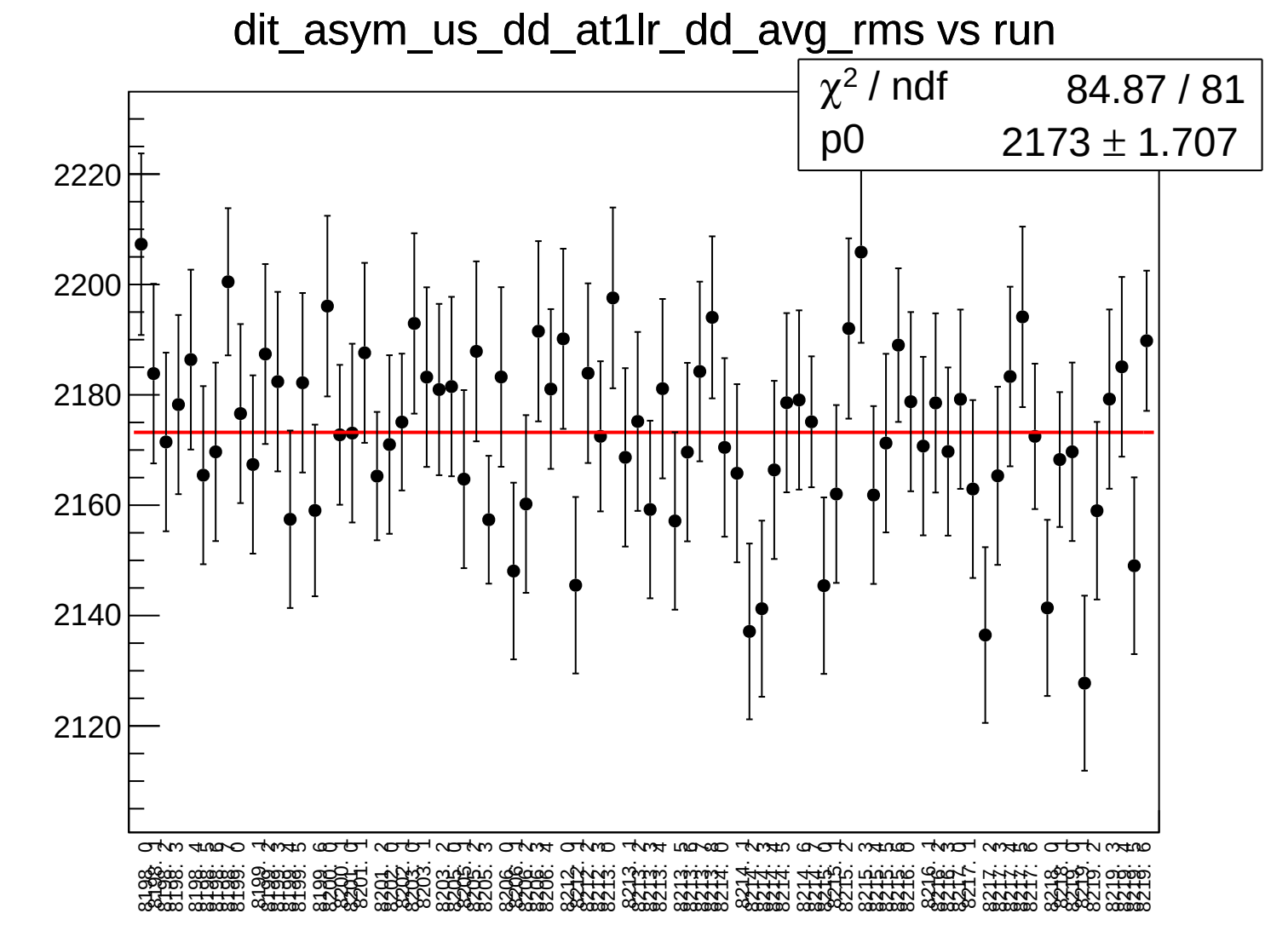

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 70.14 / 81
p0 3721 ± 2412
pull
Entries 82
Mean −1.353e+04
Std Dev 0
pull1D
Entries 82
Mean 0.0002698
Std Dev 0.9249

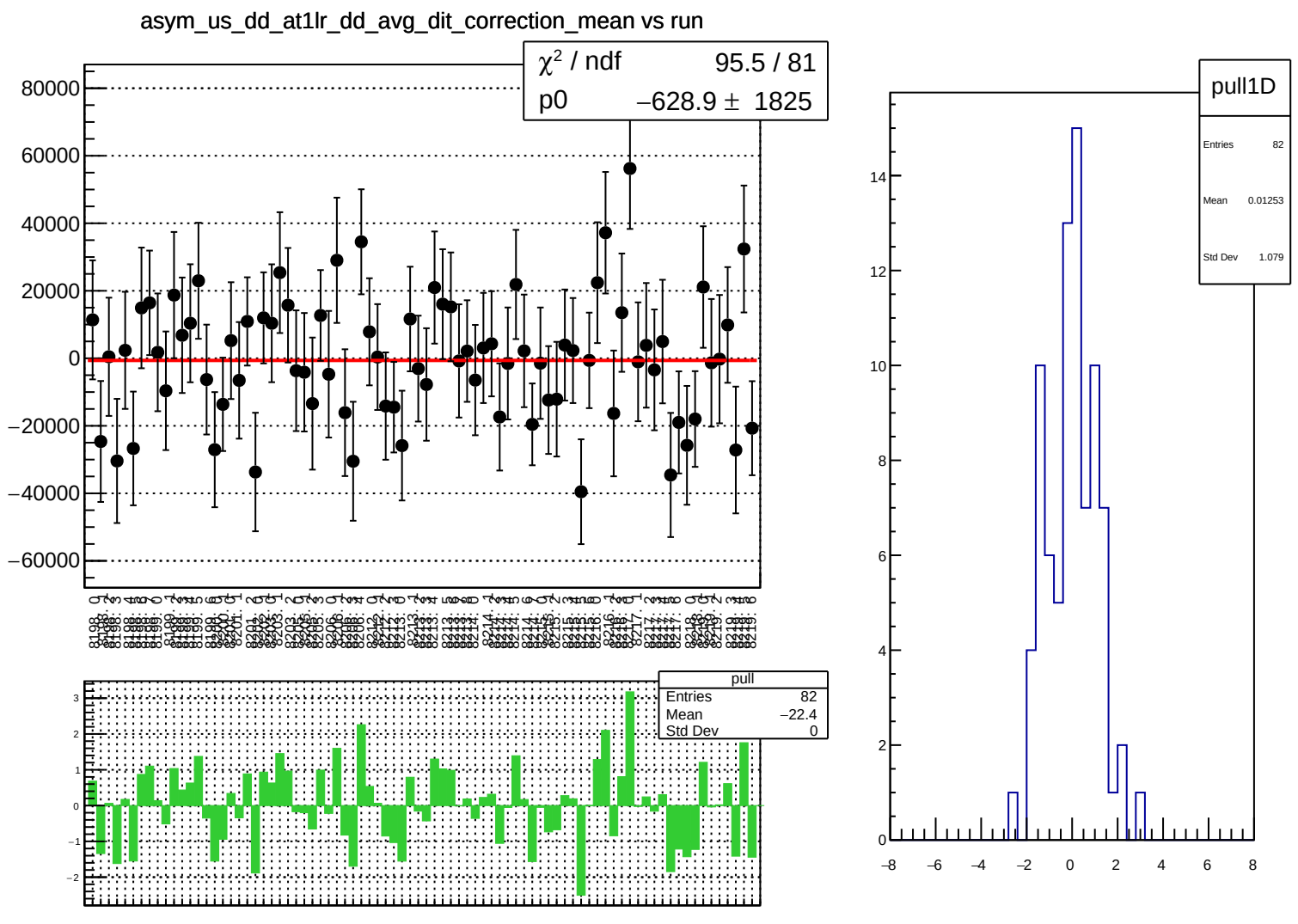

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
$\chi^2$ / ndf 83.97 / 81
p0 2172 ± 1.706
2220
2200
2180
2160
2140
2120
2100

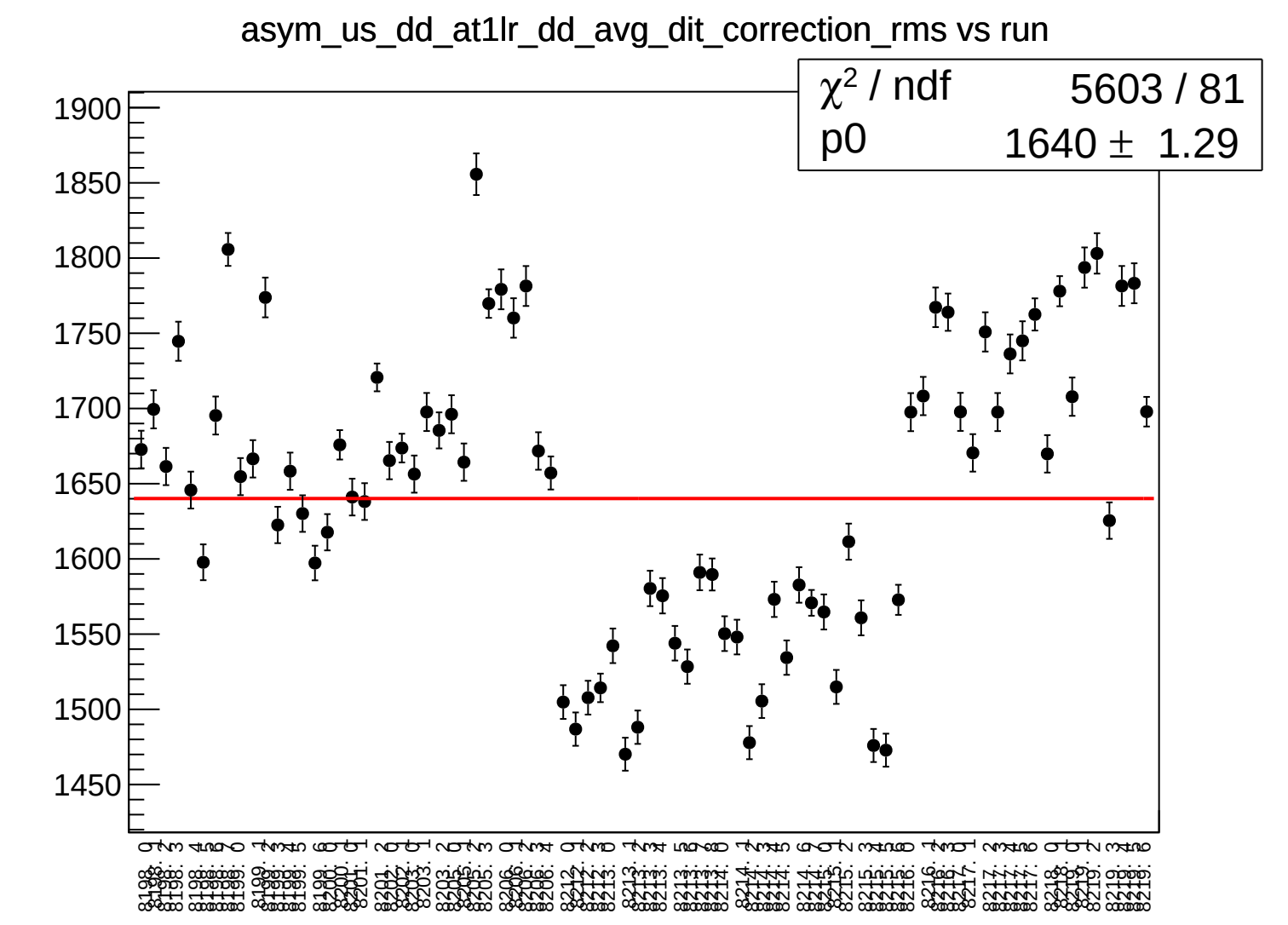

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.28 / 81
p0 −750.3 ± 1855
pull
Entries 82
Mean 10.63
Std Dev 0
pull1D
Entries 82
Mean 0.01554
Std Dev 1.083

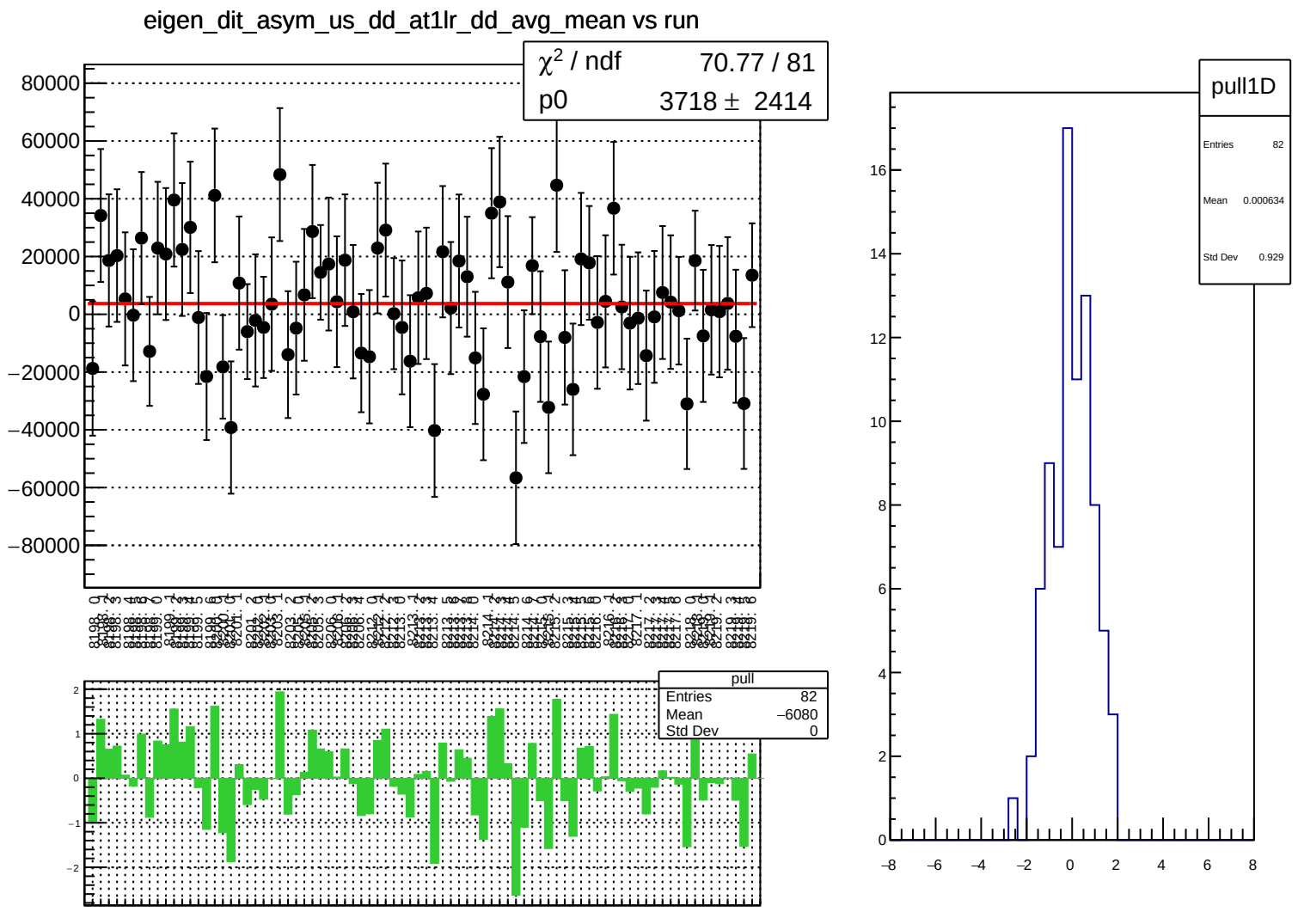

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7652 / 81
p0 1666 ± 1.312
1900
1800
1700
1600
1500
1400

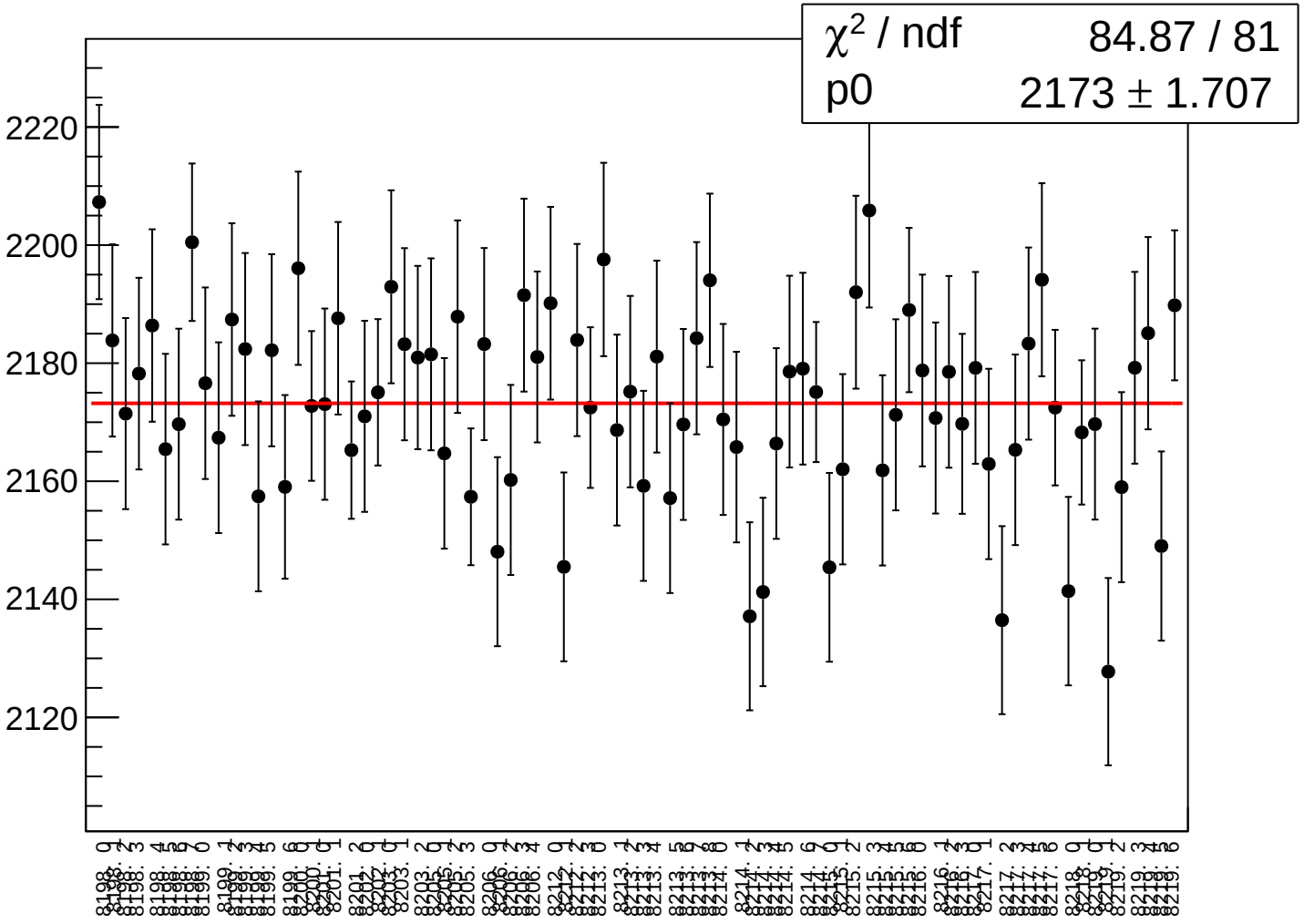

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 70.77 / 81
p0 3718 ± 2414
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean −6080
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.000634
Std Dev 0.929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

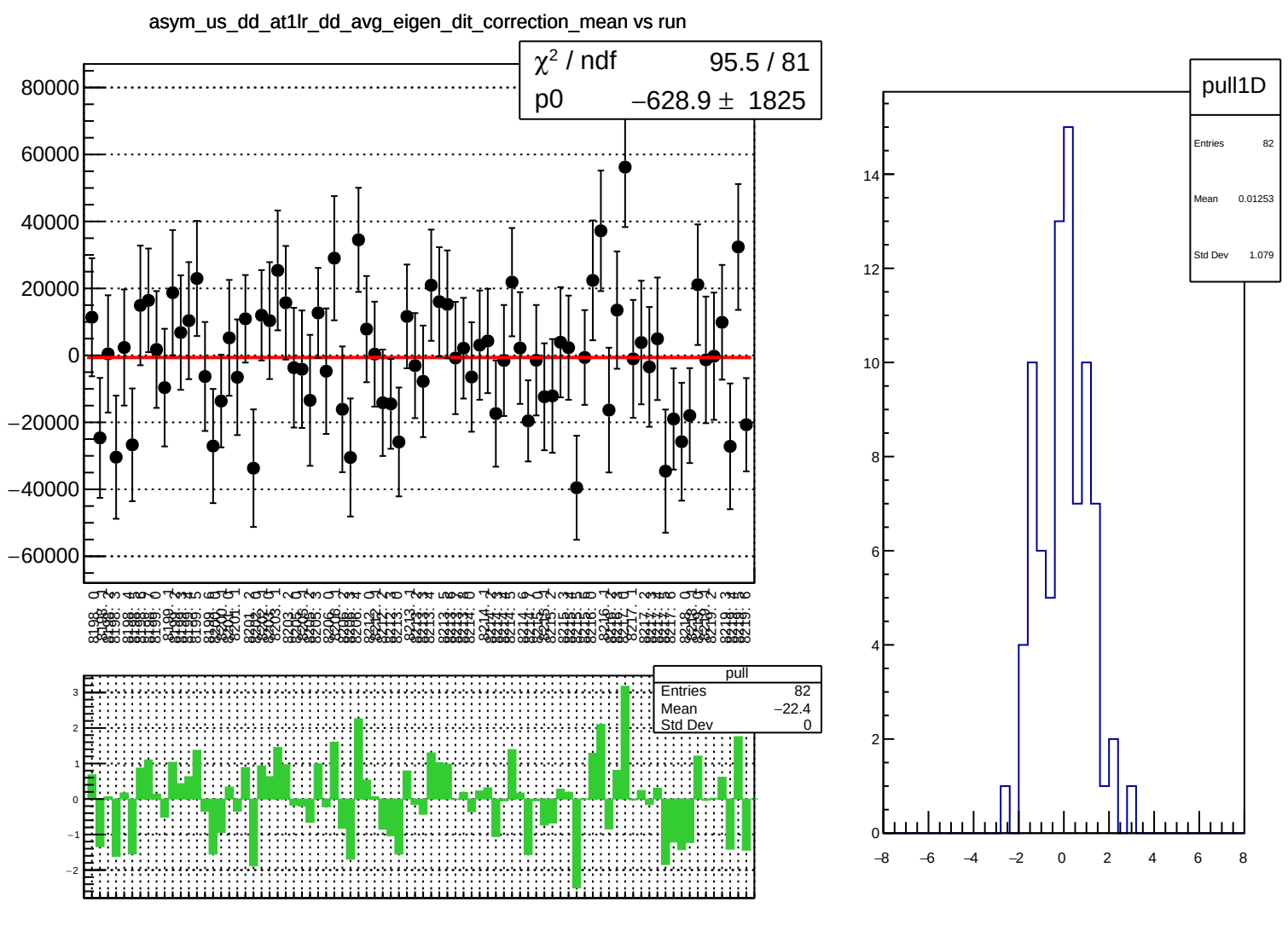

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 84.87 / 81
p0 2173 ± 1.707
2220
2200
2180
2160
2140
2120

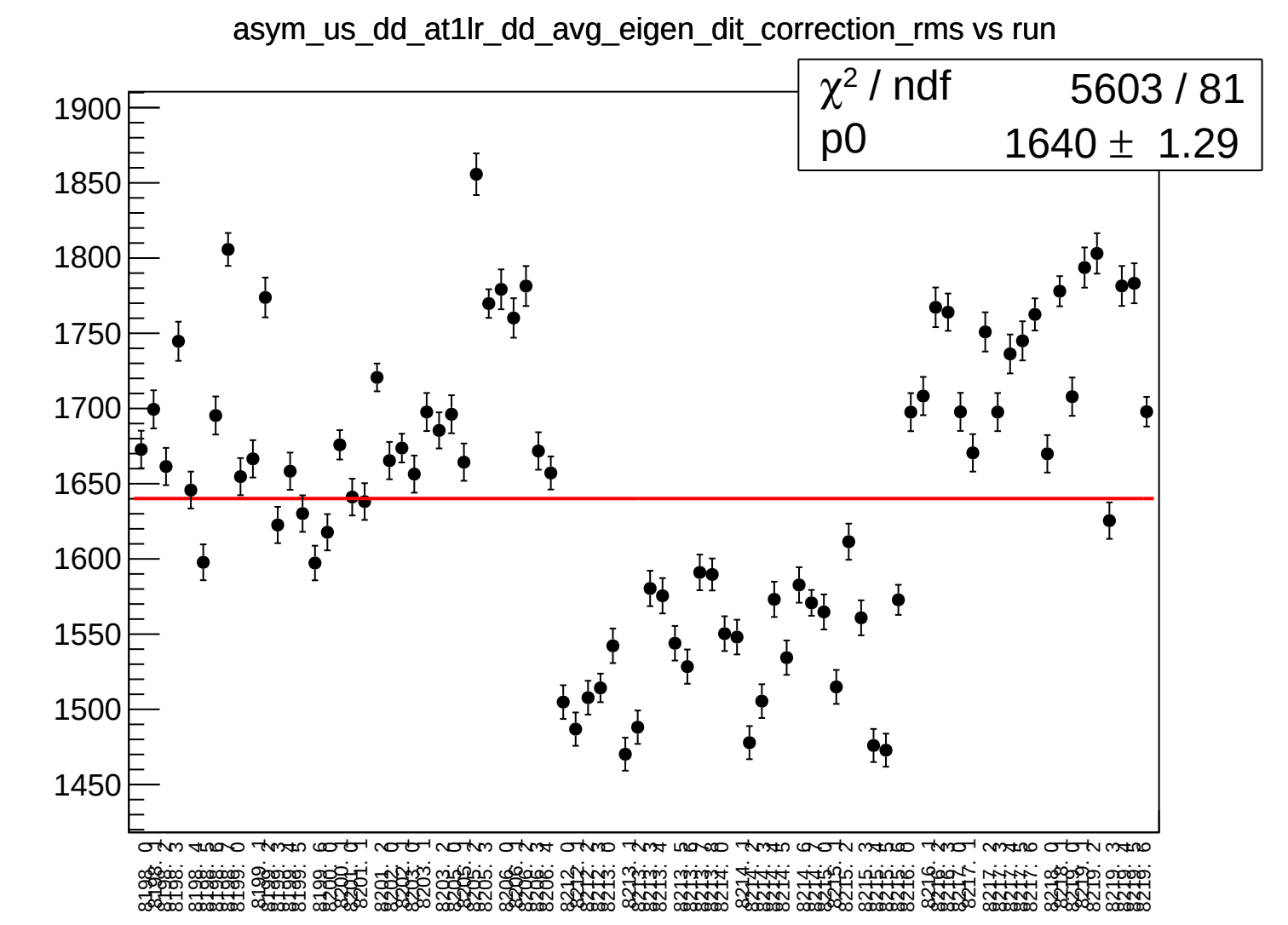

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 95.5 / 81
p0 −628.9 ± 1825
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −22.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01253
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

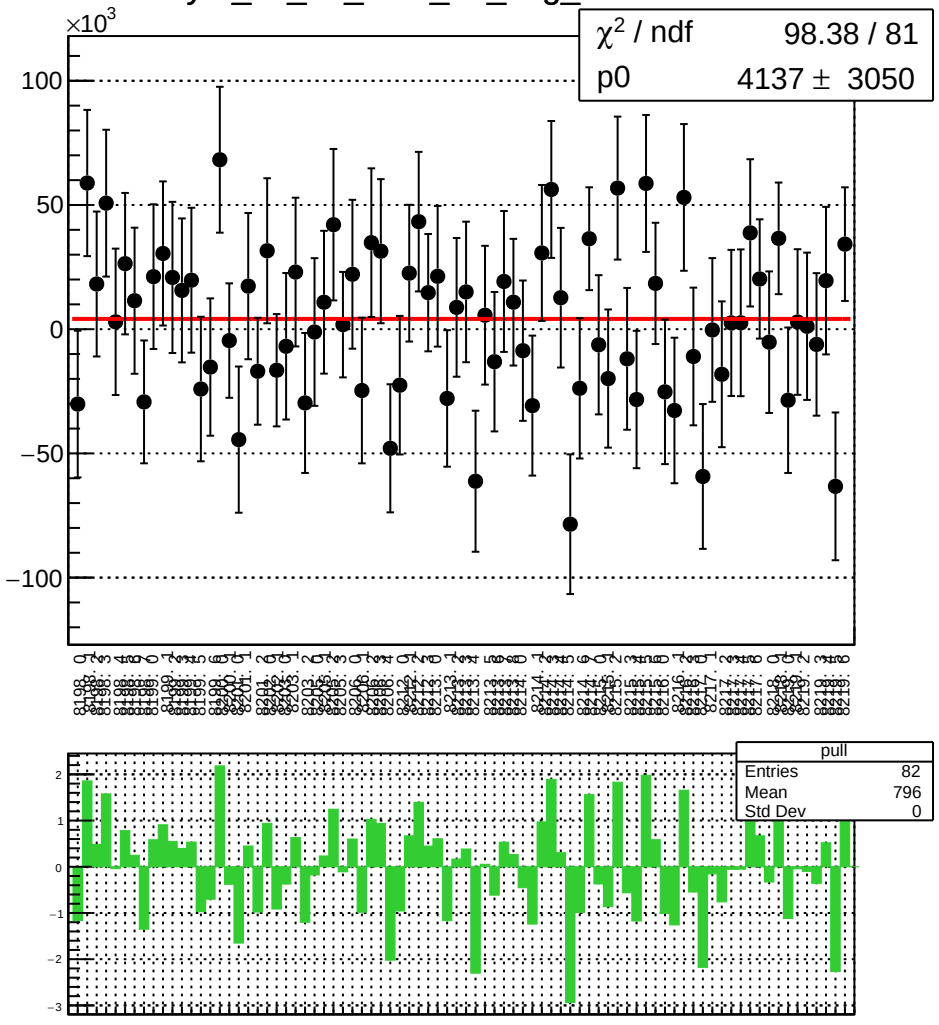

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 5603 / 81
p0 1640 ± 1.29
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

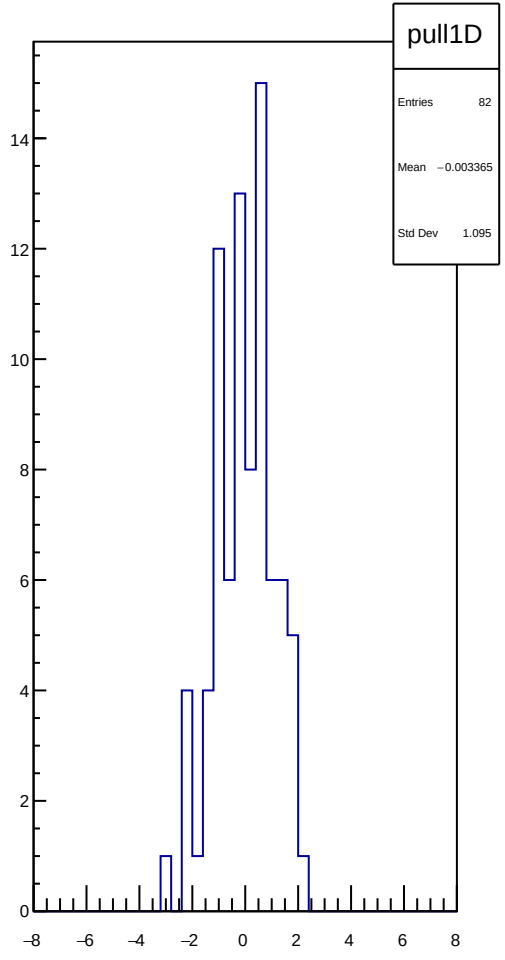

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 70.77 / 81
p0 3718 ± 2414
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean −6080
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.000634
Std Dev 0.929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

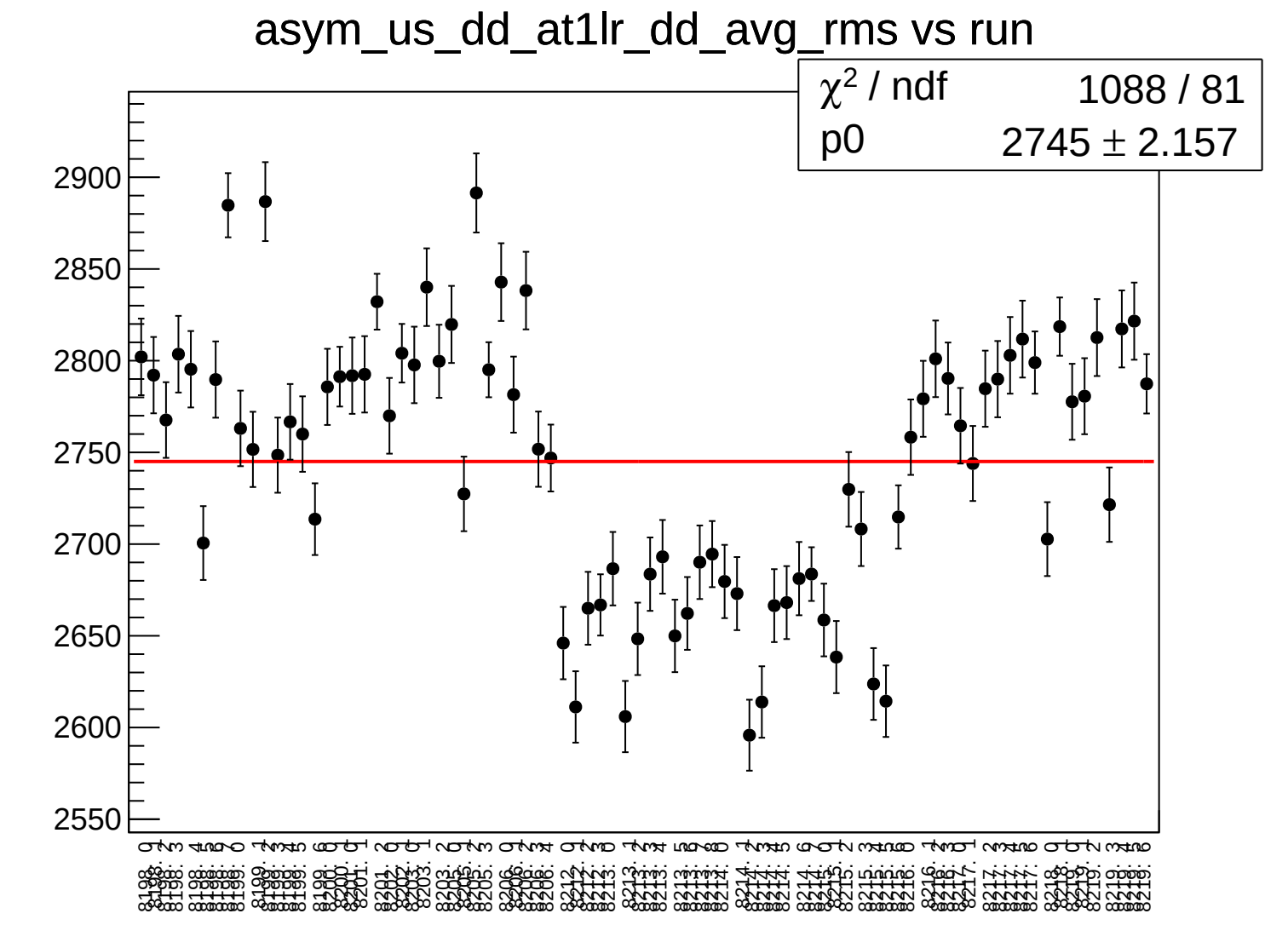

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 84.87 / 81
p0 2173 ± 1.707
2220
2200
2180
2160
2140
2120

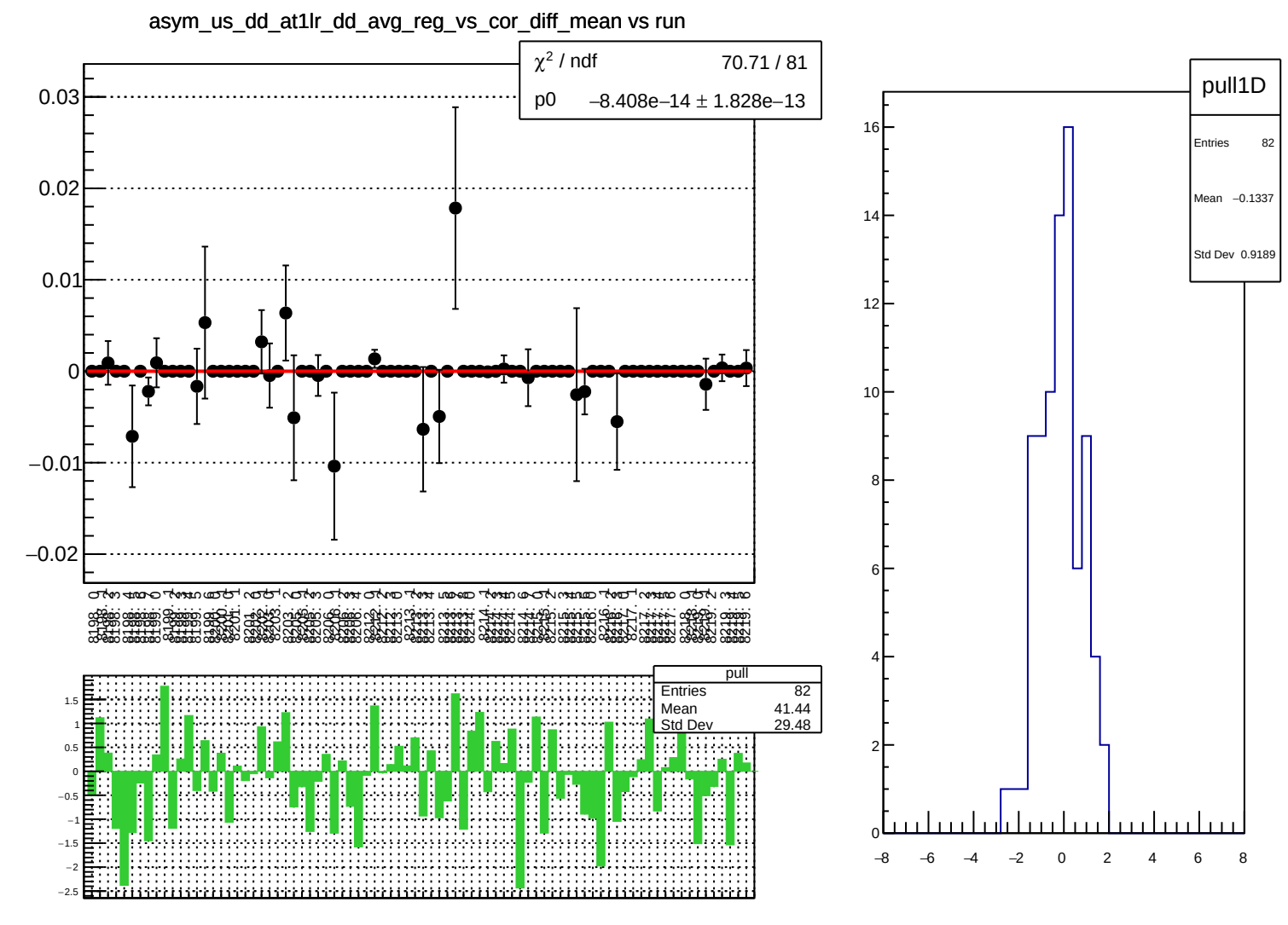

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.5 / 81
p0 −628.9 ± 1825
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −22.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01253
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

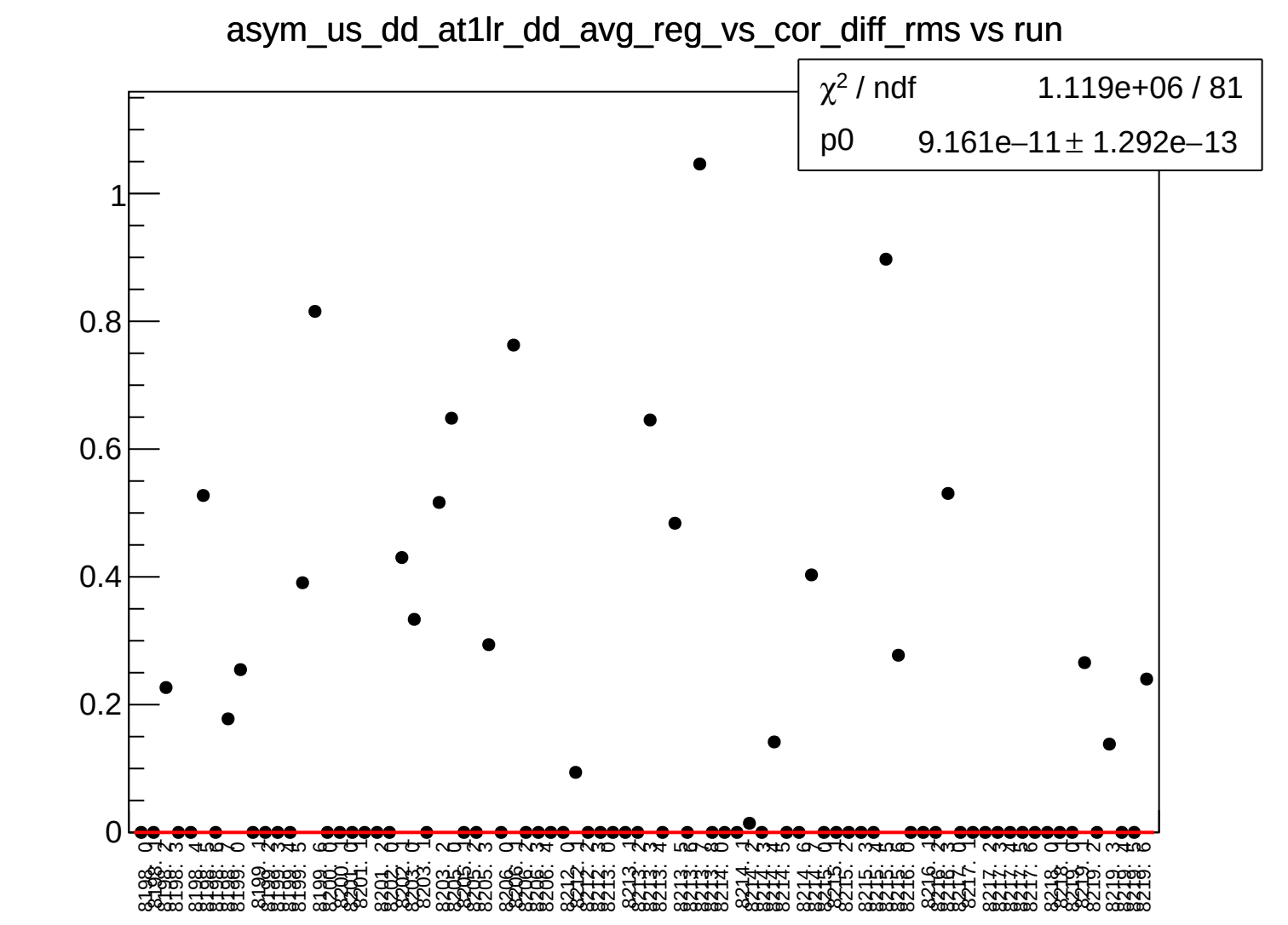

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5603 / 81
p0 1640 ± 1.29
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

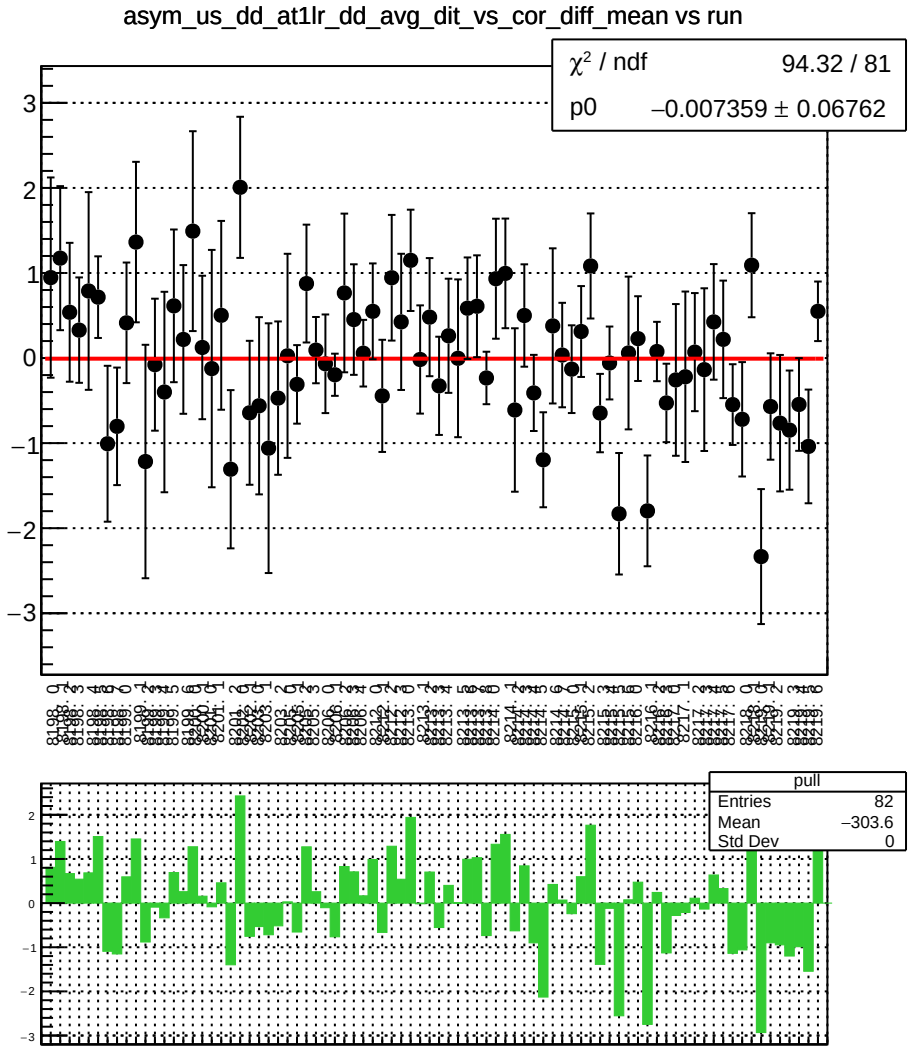

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 98.38 / 81
p0 4137 ± 3050
100
50
0
−50
−100
pull
Entries 82
Mean 796
Std Dev 0
2
1
0
−1
−2
−3

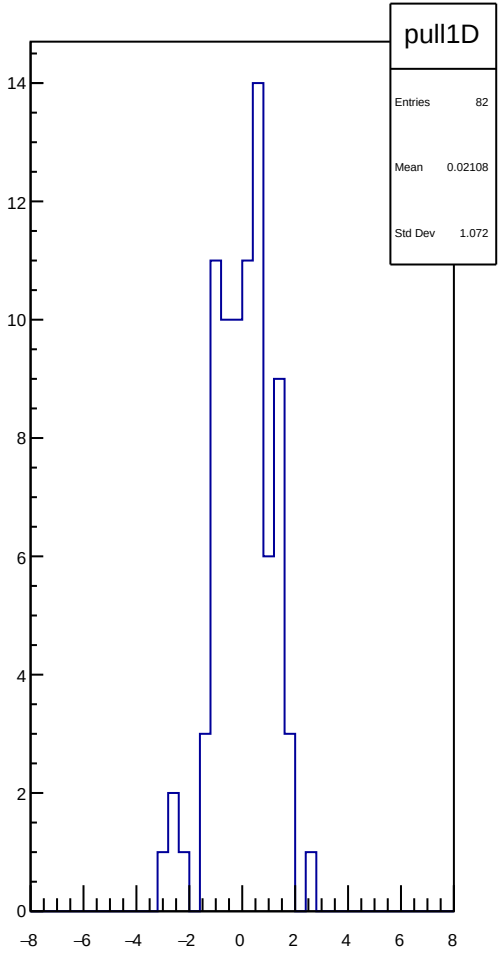

pull1D
Entries 82
Mean −0.003365
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

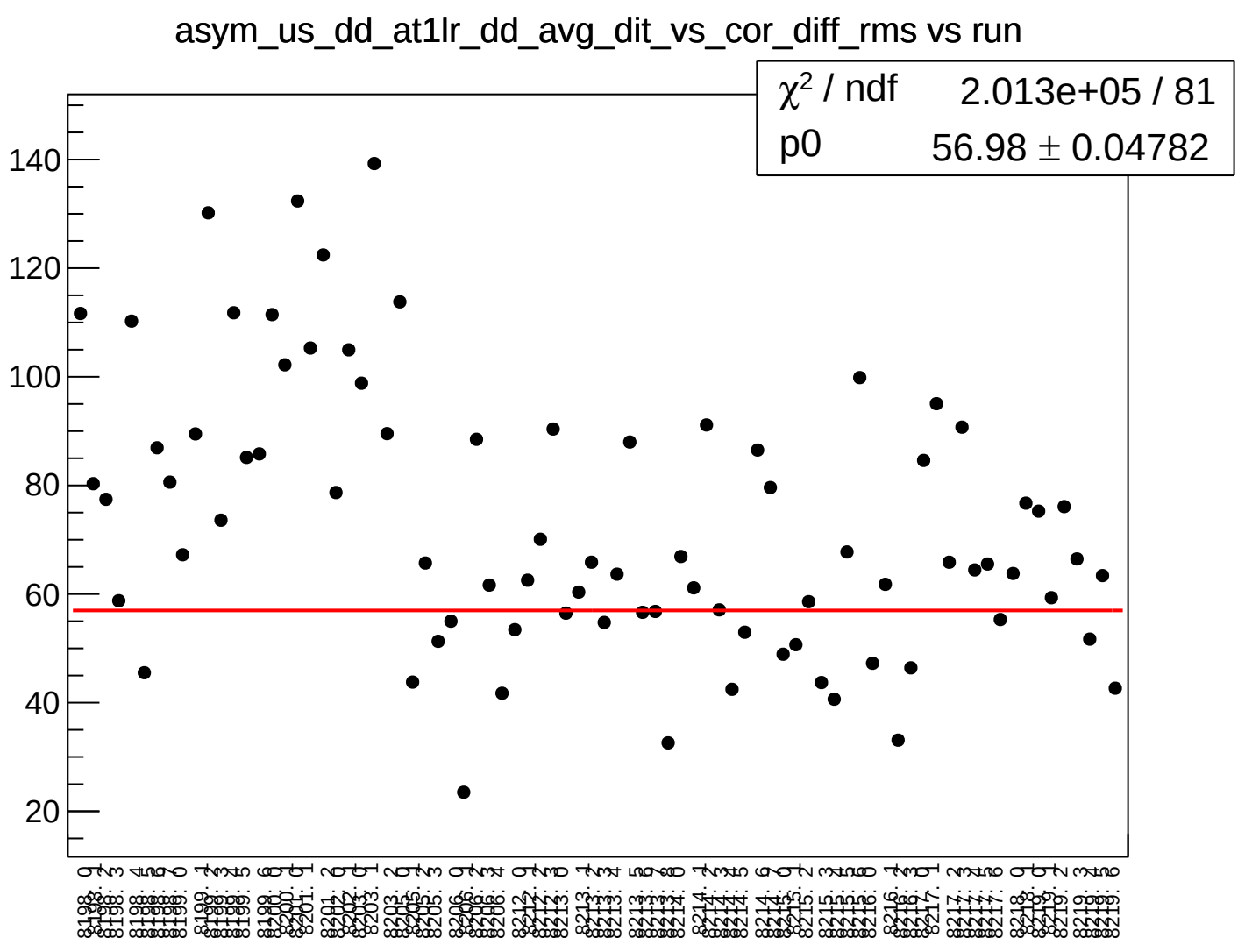

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1088 / 81
p0 2745 ± 2.157
2900
2850
2800
2750
2700
2650
2600
2550

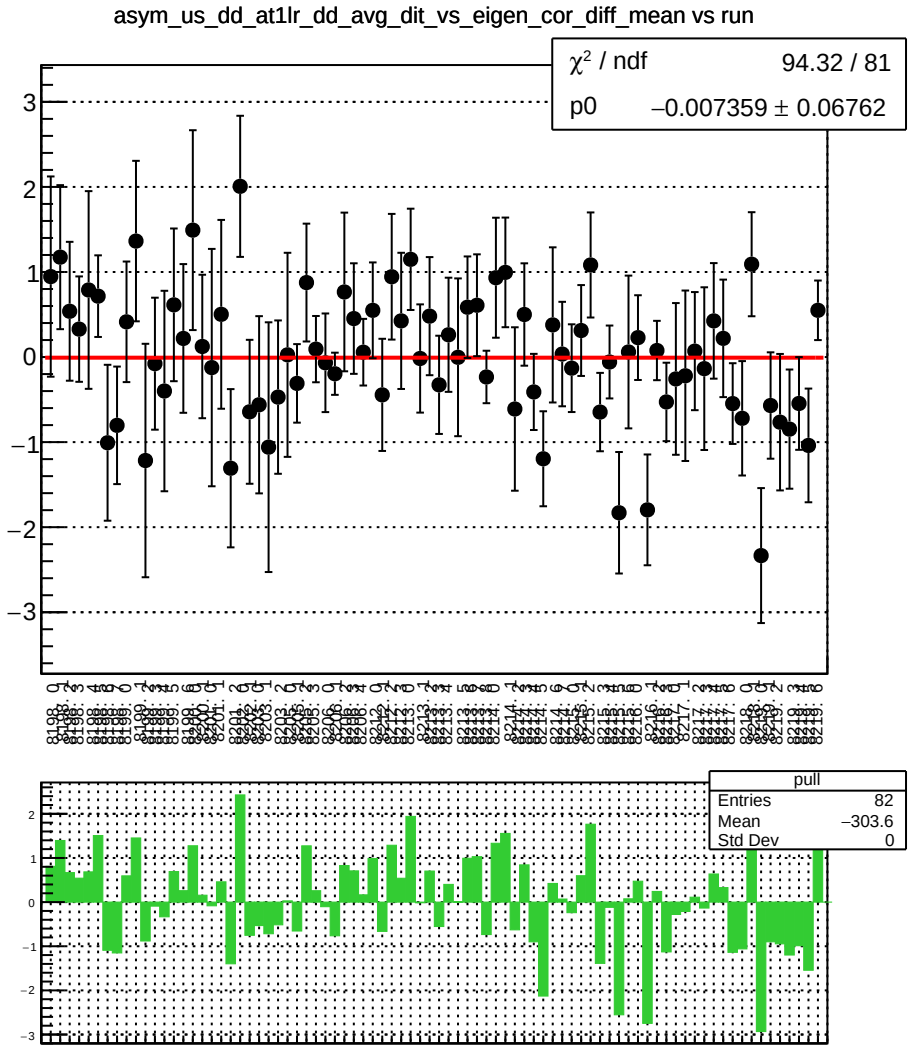

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.71 / 81
p0 −8.408e−14 ± 1.828e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean 41.44
Std Dev 29.48
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean −0.1337
Std Dev 0.9189
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

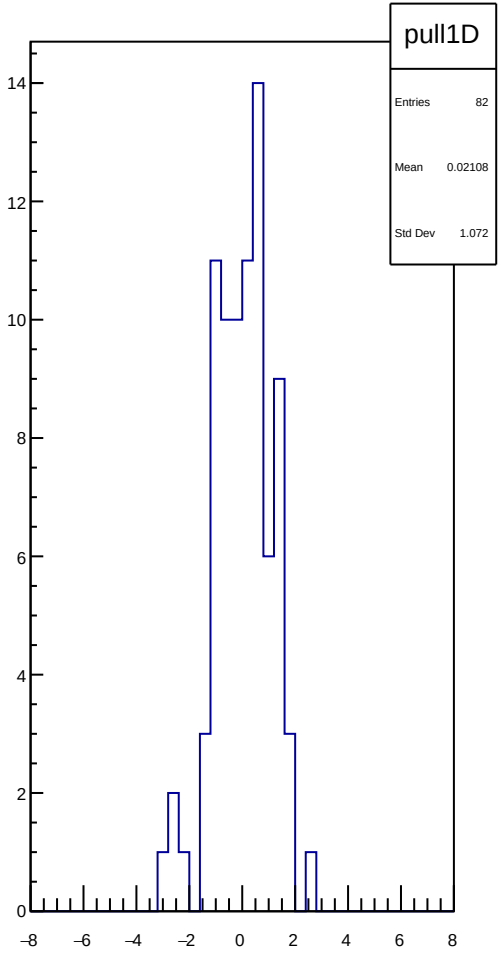

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.119e+06 / 81
p0 9.161e−11 ± 1.292e−13
1
0.8
0.6
0.4
0.2
0

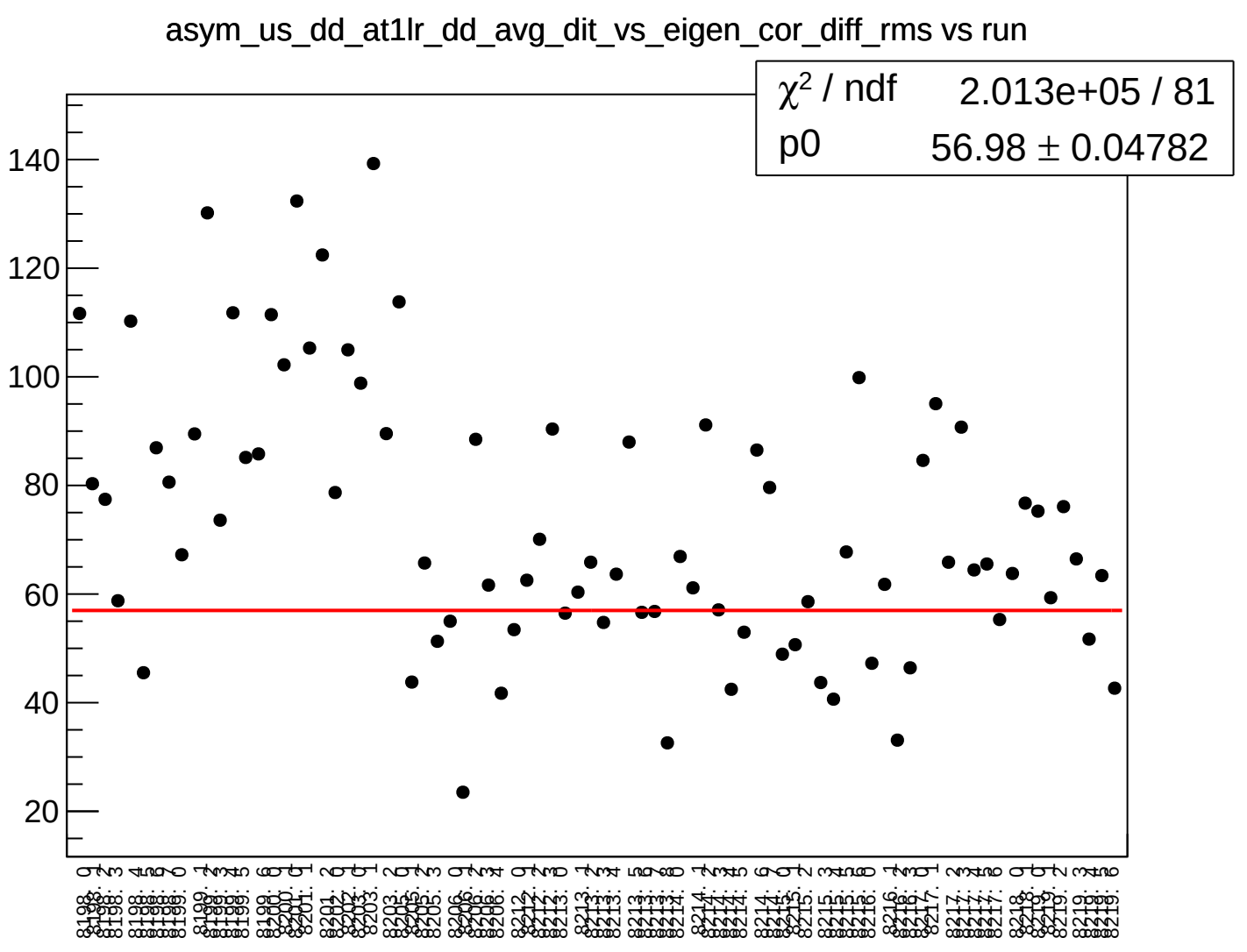

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.32 / 81
p0 −0.007359 ± 0.06762
pull
Entries 82
Mean −303.6
Std Dev 0

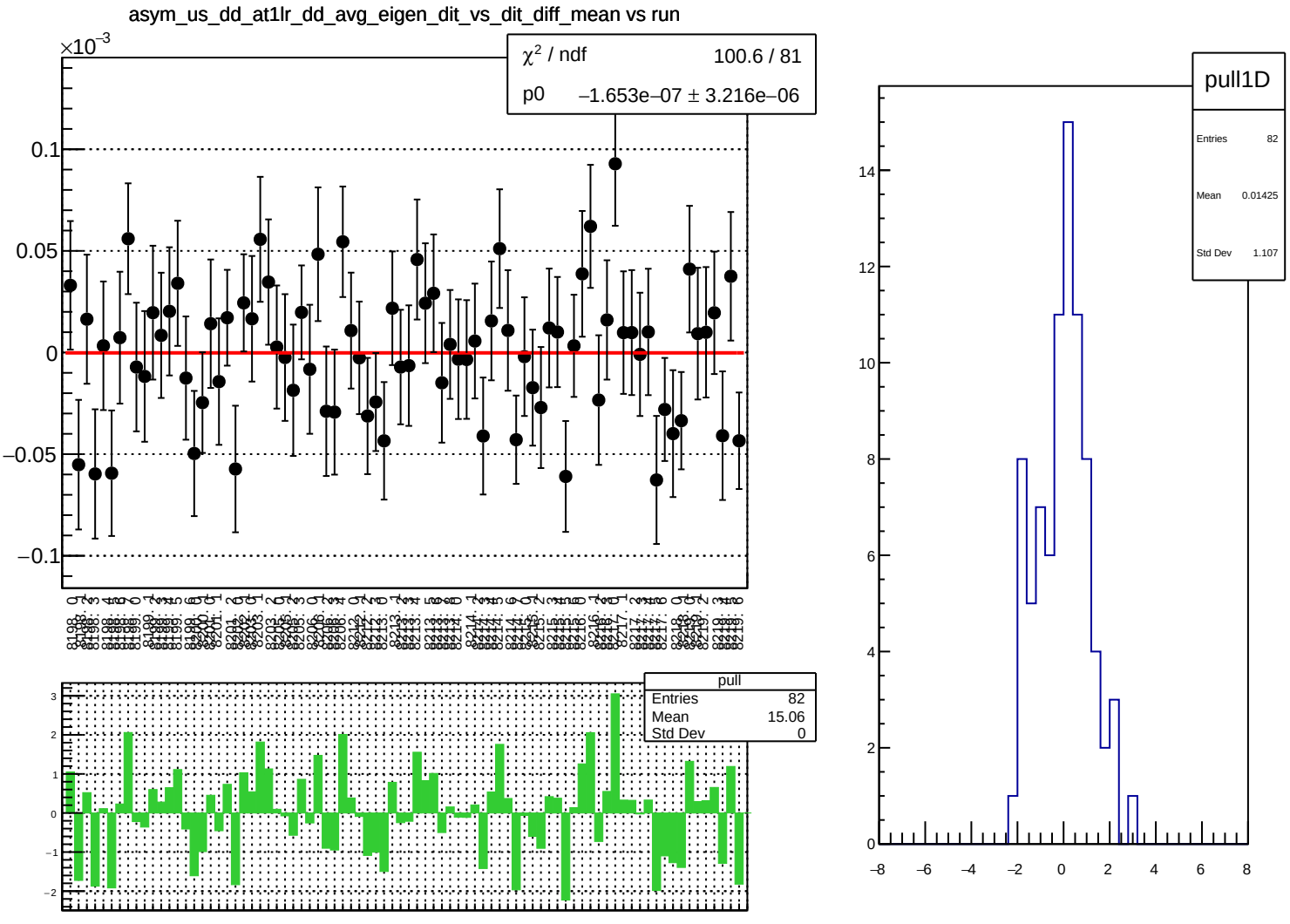

pull1D
Entries 82
Mean 0.02108
Std Dev 1.072

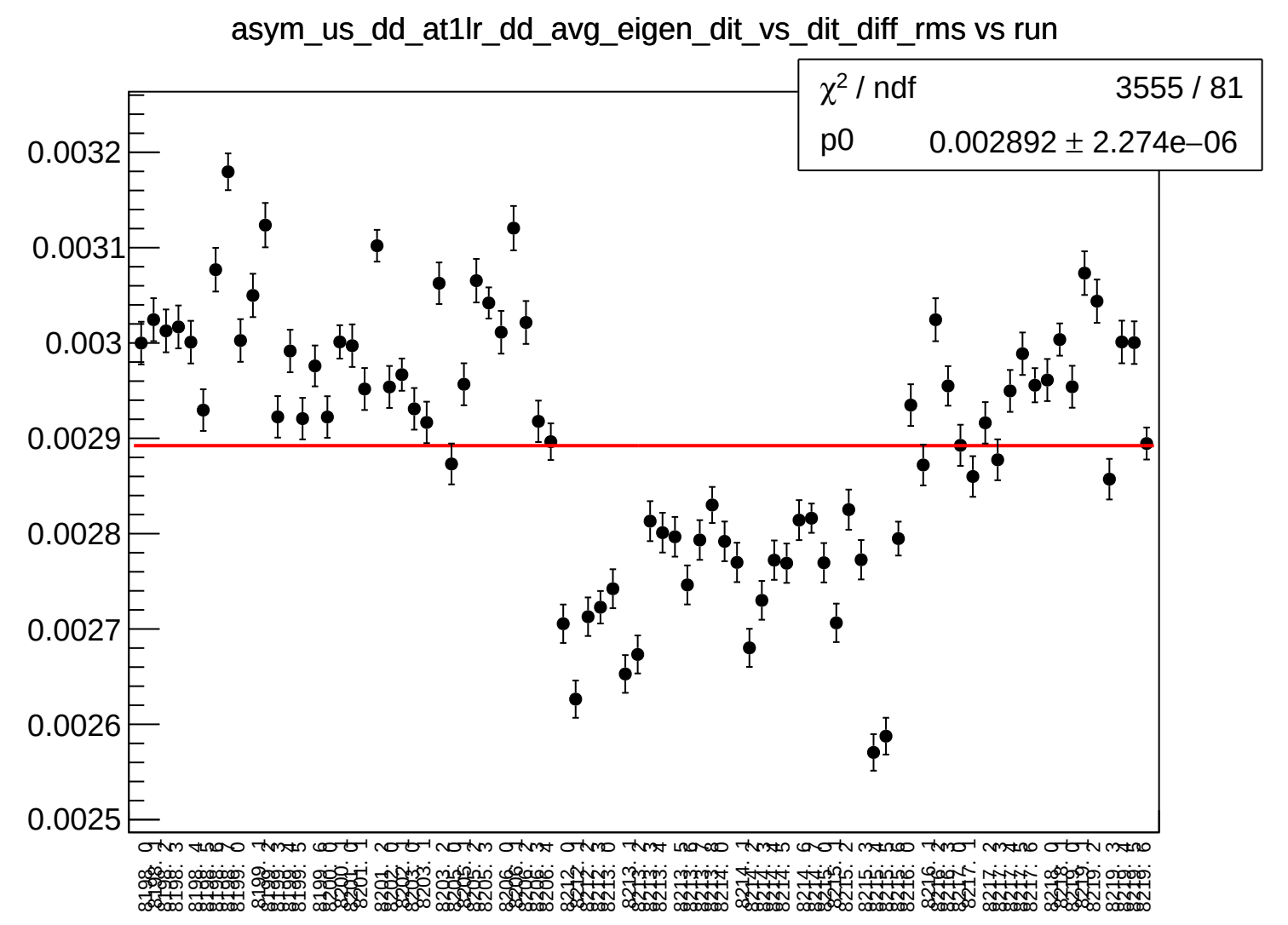

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.013e+05 / 81
p0 56.98 ± 0.04782
140
120
100
80
60
40
20


asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.32 / 81
p0 −0.007359 ± 0.06762
pull
Entries 82
Mean −303.6
Std Dev 0

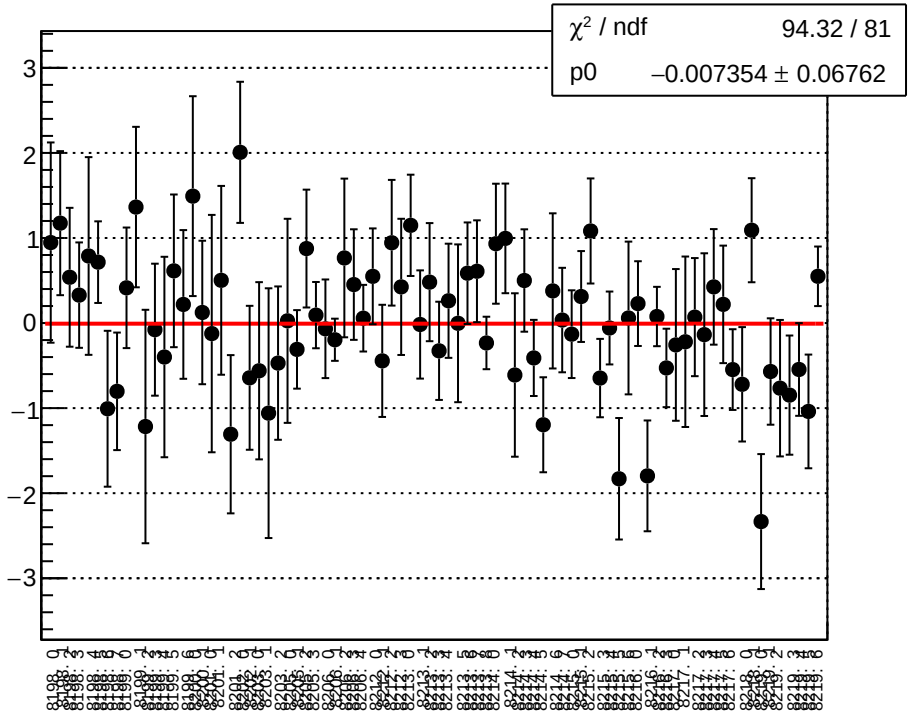

pull1D
Entries 82
Mean 0.02108
Std Dev 1.072

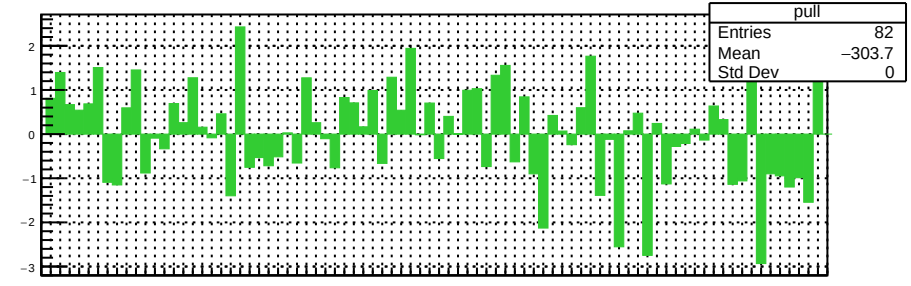

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.013e+05 / 81
p0 56.98 ± 0.04782
140
120
100
80
60
40
20

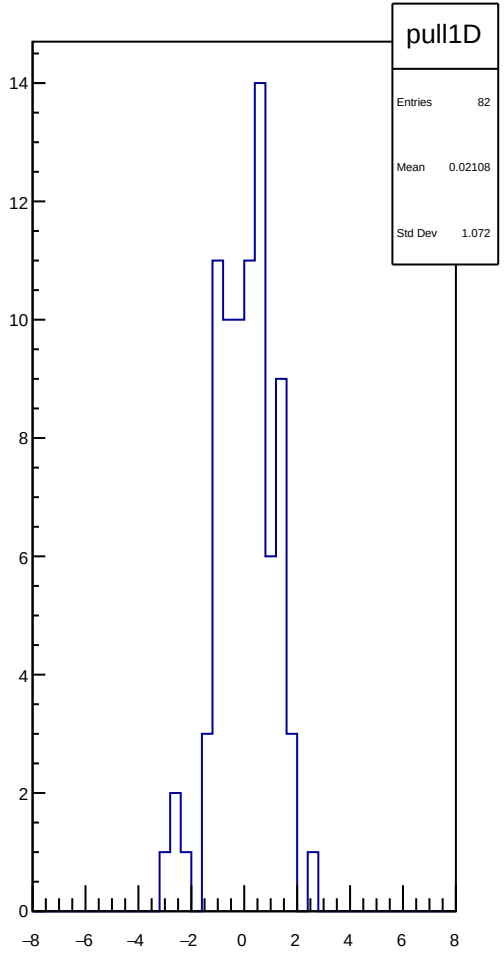

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.6 / 81
p0 −1.653e−07 ± 3.216e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean 15.06
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01425
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

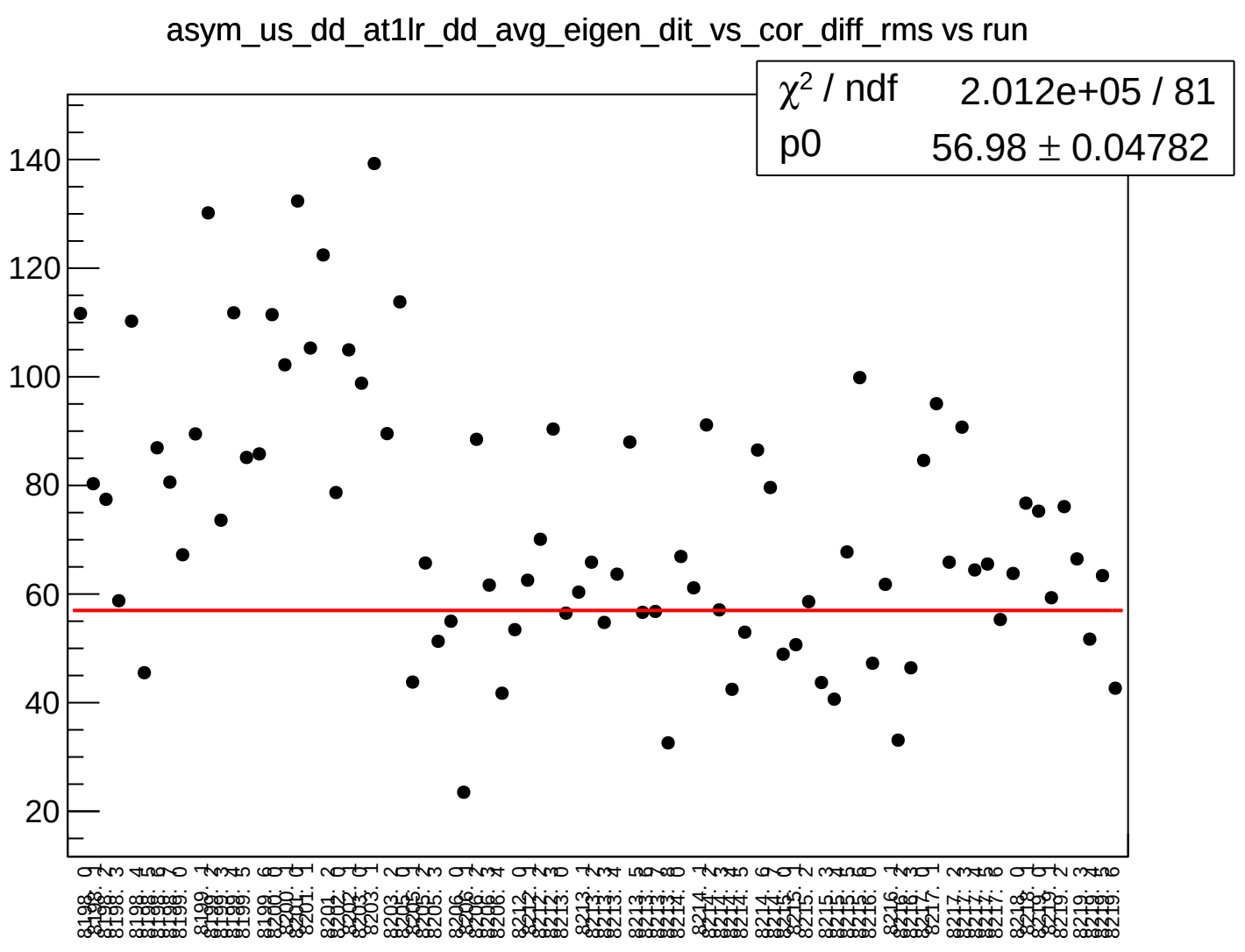

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3555 / 81
p0 0.002892 ± 2.274e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

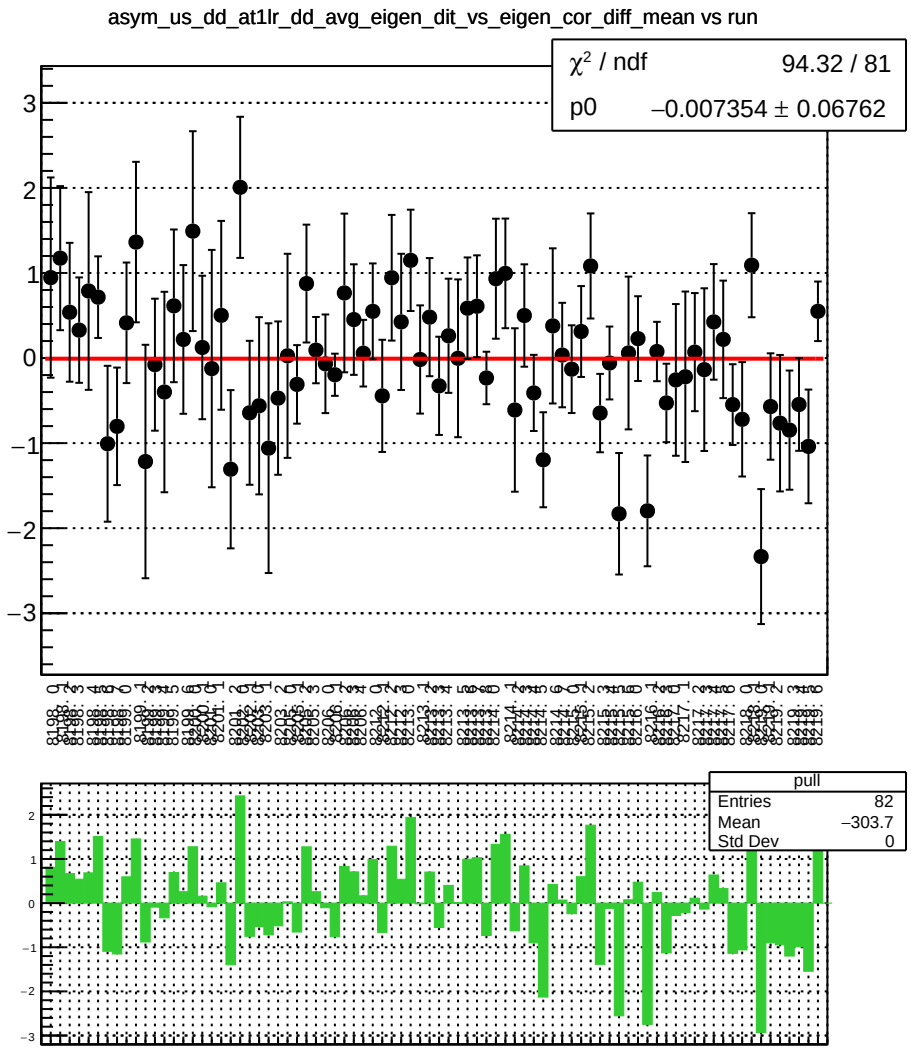
asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

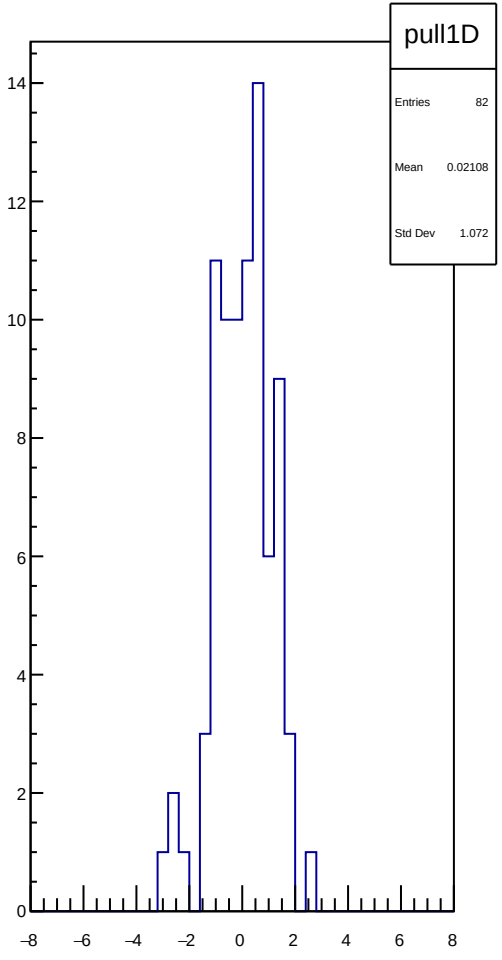


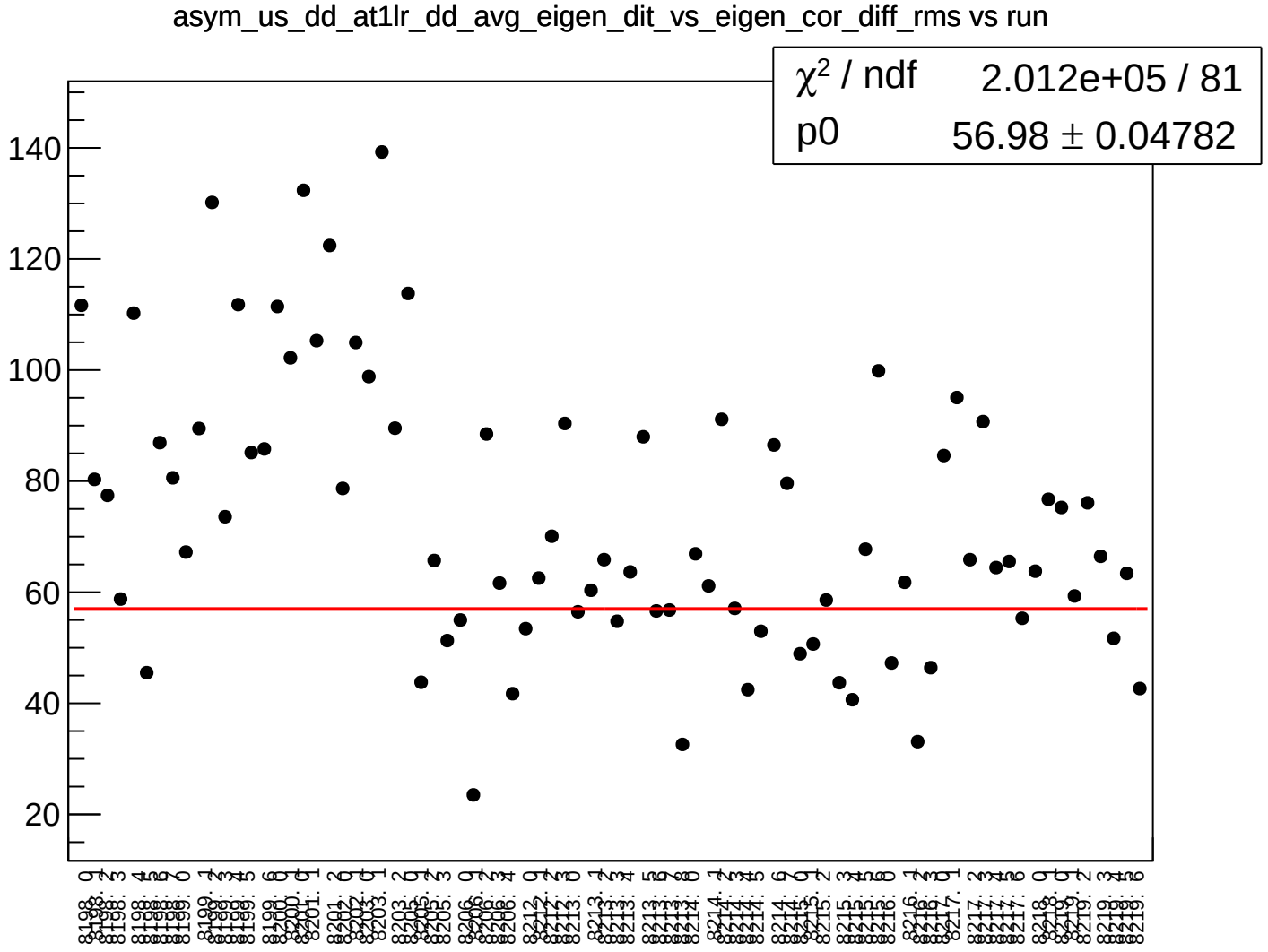



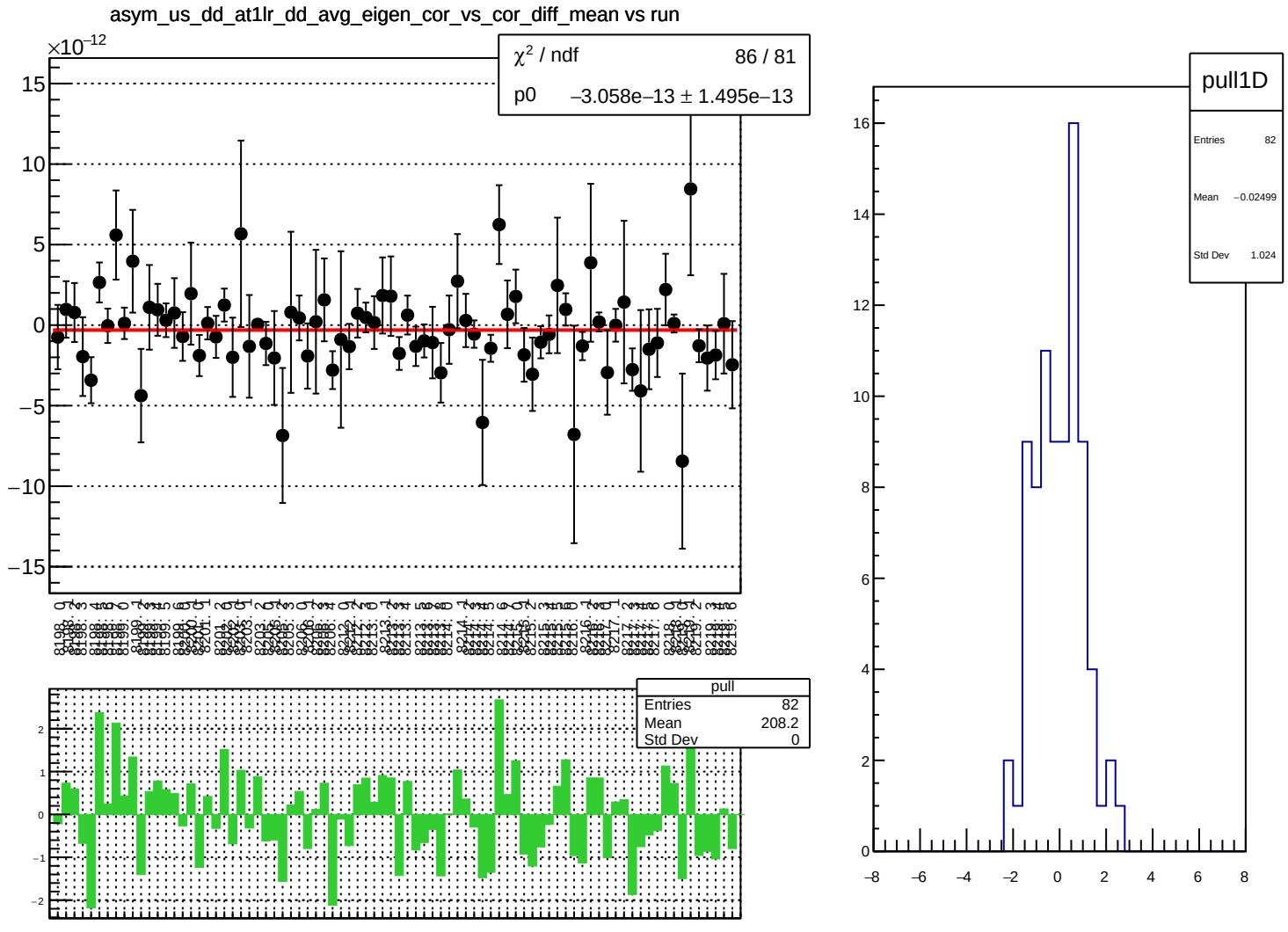



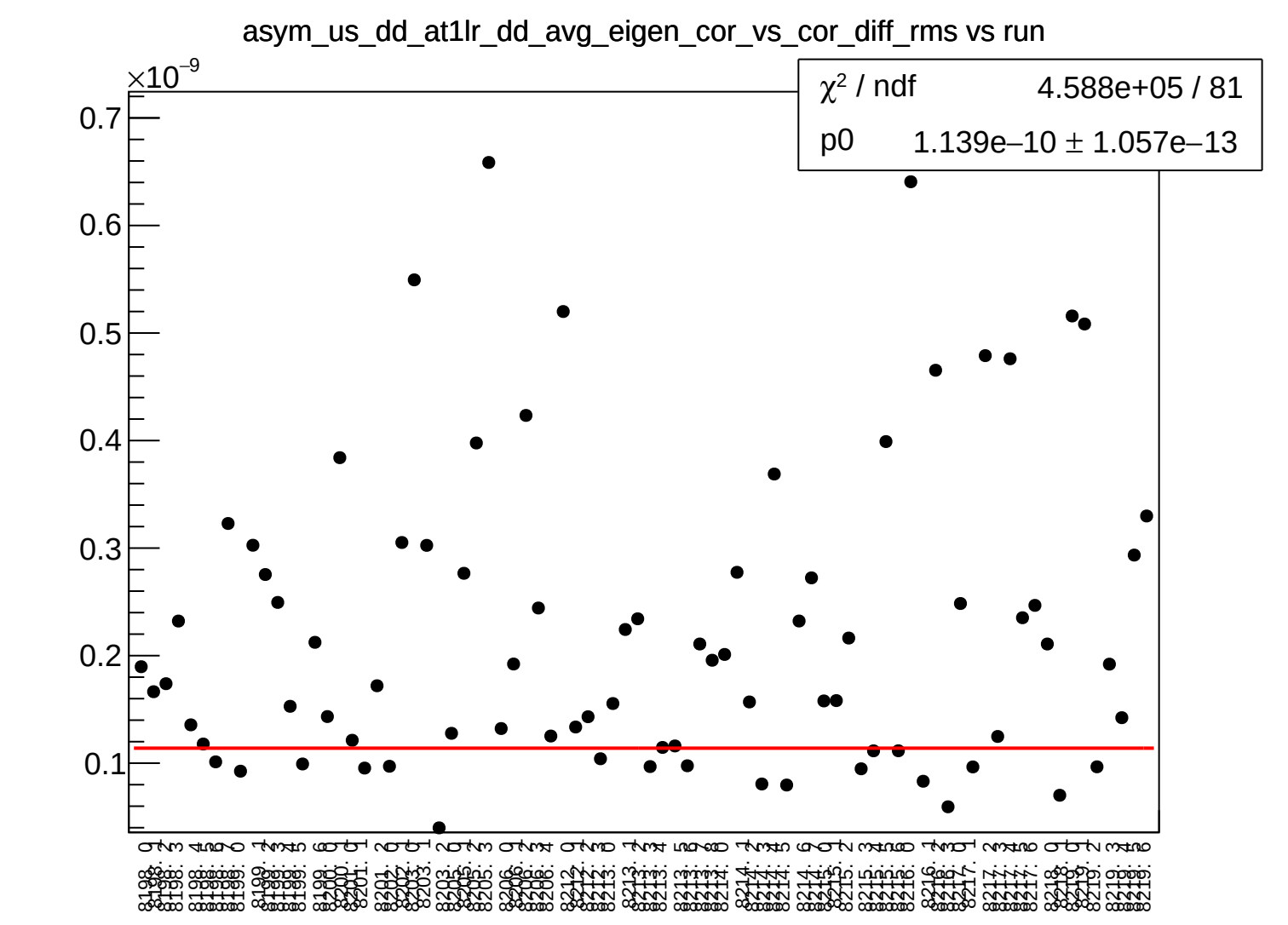

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.012e+05 / 81
p0 56.98 ± 0.04782
140
120
100
80
60
40
20

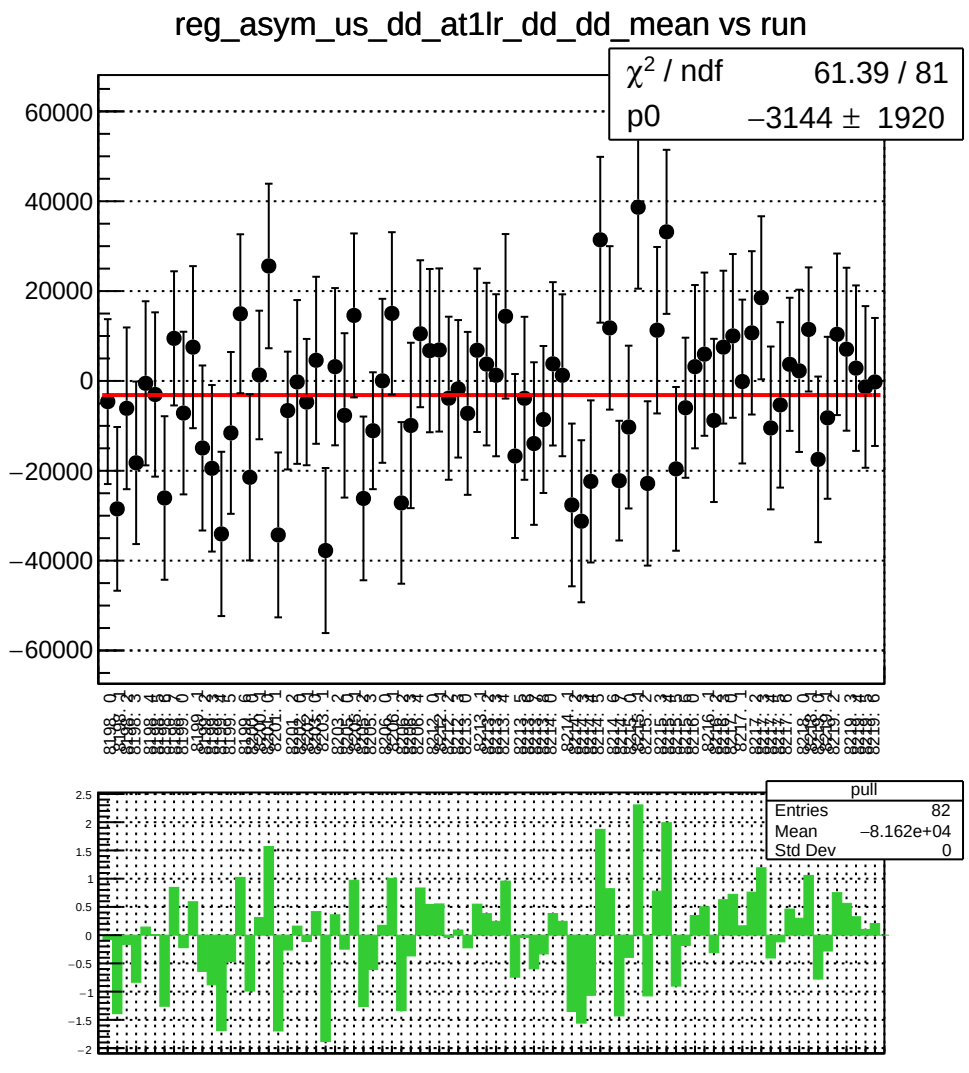

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.32 / 81
p0 −0.007354 ± 0.06762
pull
Entries 82
Mean −303.7
Std Dev 0

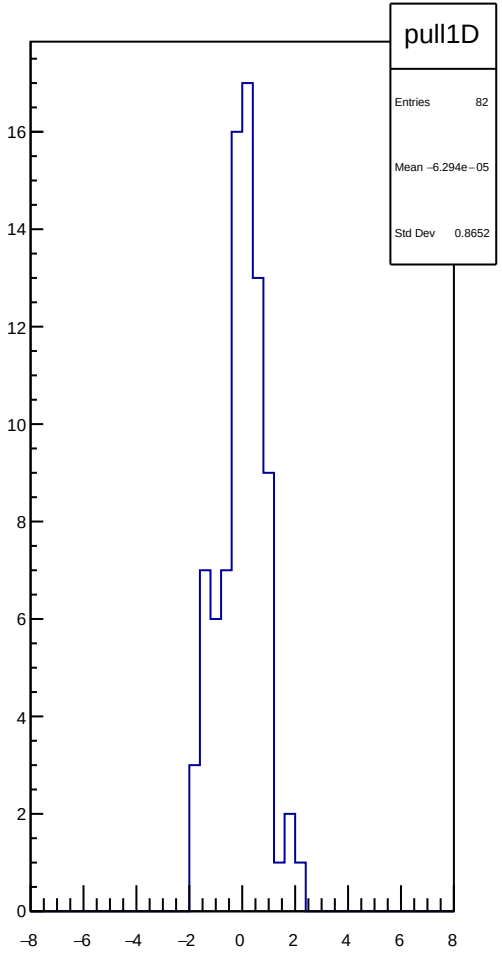

pull1D
Entries 82
Mean 0.02108
Std Dev 1.072

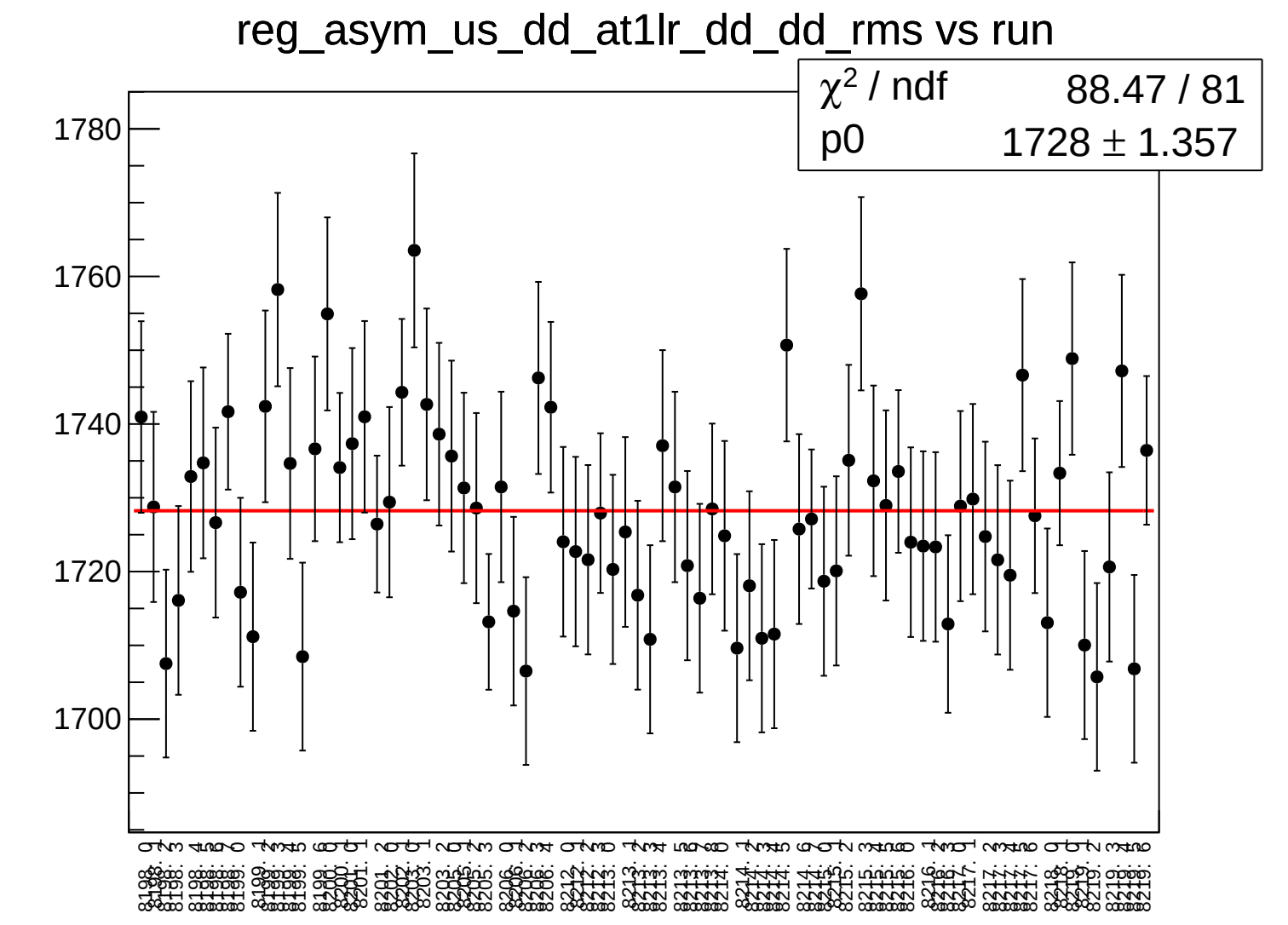

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.012e+05 / 81
p0 56.98 ± 0.04782
140
120
100
80
60
40
20

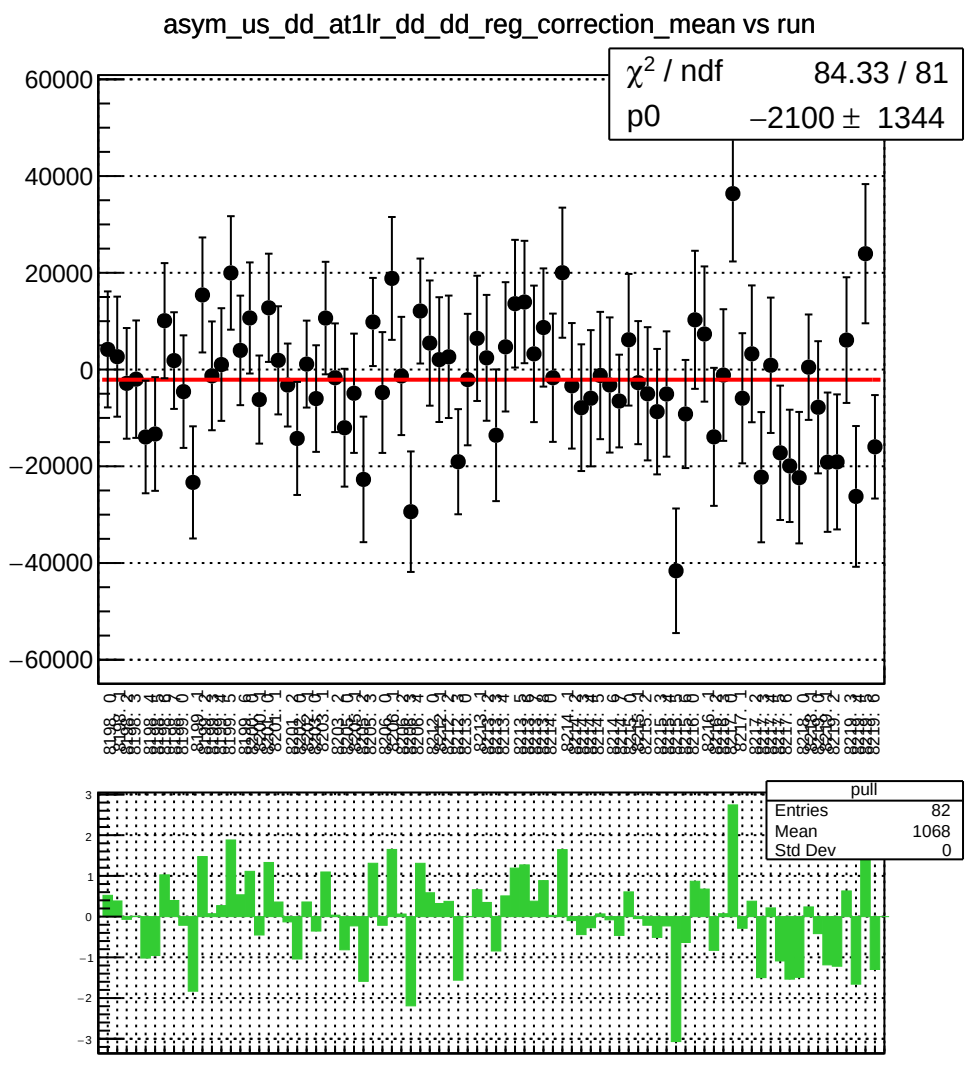

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86 / 81
p0 −3.058e−13 ± 1.495e−13
pull
Entries 82
Mean 208.2
Std Dev 0
pull1D
Entries 82
Mean −0.02499
Std Dev 1.024

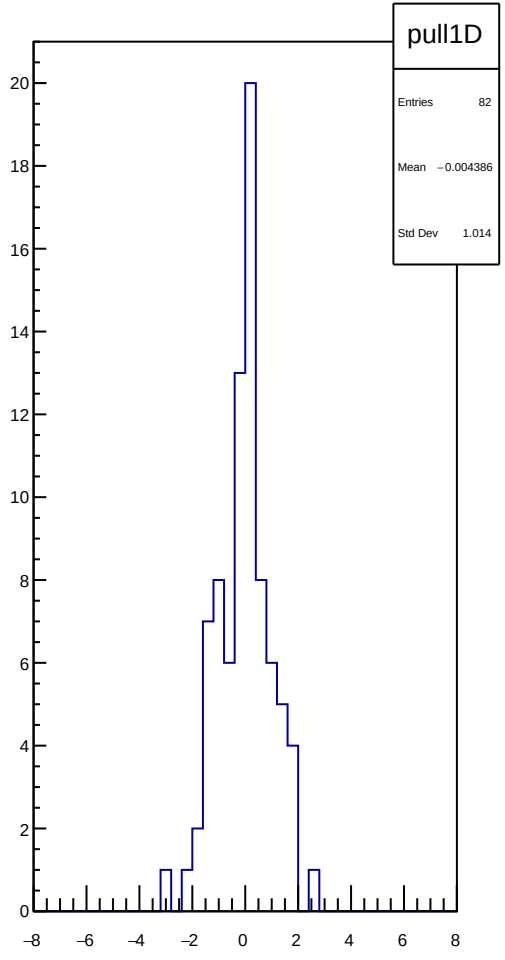

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.588e+05 / 81
p0 1.139e−10 ± 1.057e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

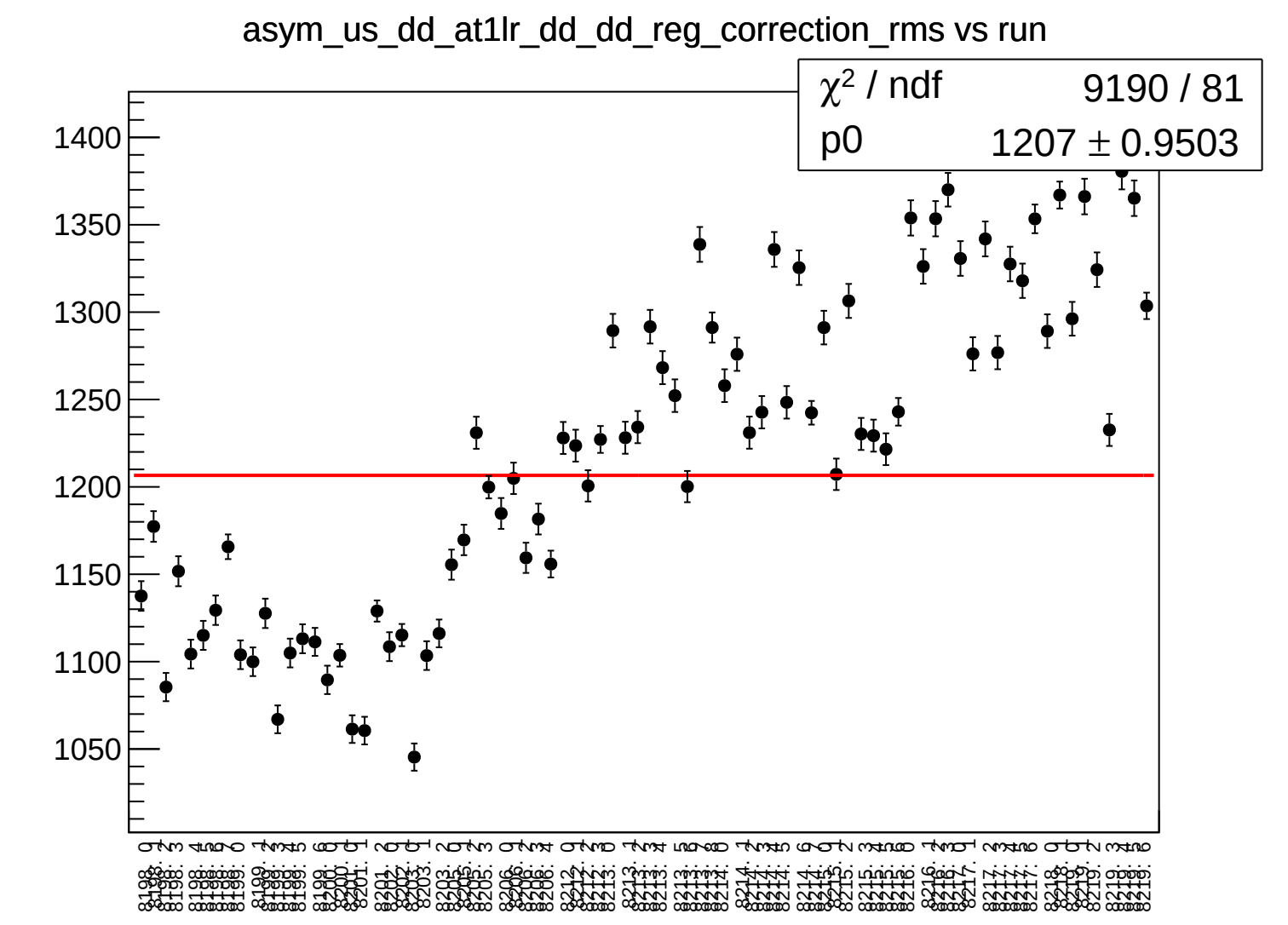

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 61.39 / 81
p0 −3144 ± 1920
pull
Entries 82
Mean −8.162e+04
Std Dev 0

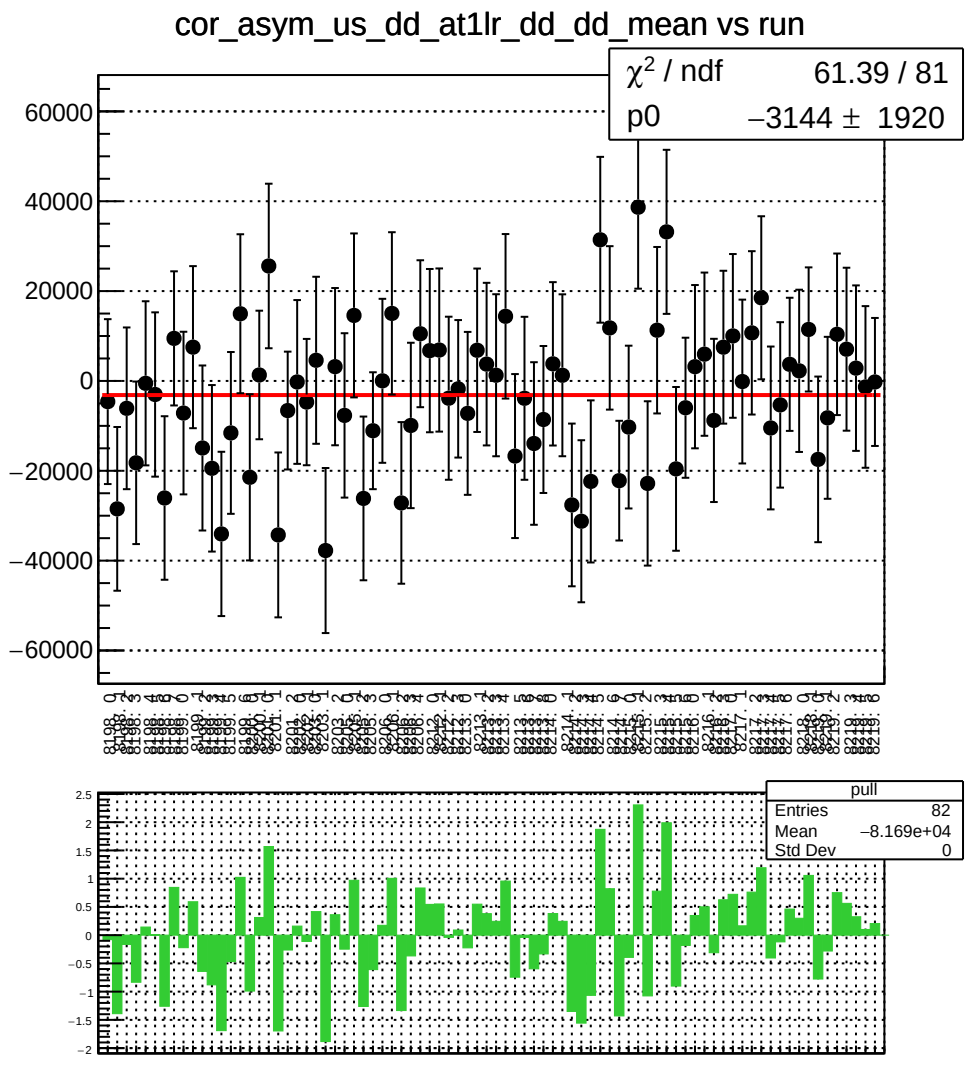

pull1D
Entries 82
Mean −6.294e−05
Std Dev 0.8652

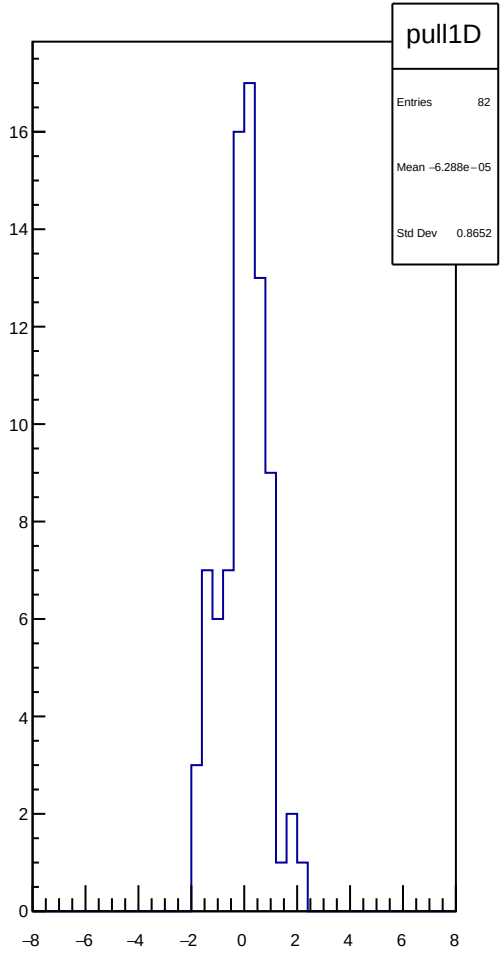

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 88.47 / 81
p0 1728 ± 1.357
1780
1760
1740
1720
1700

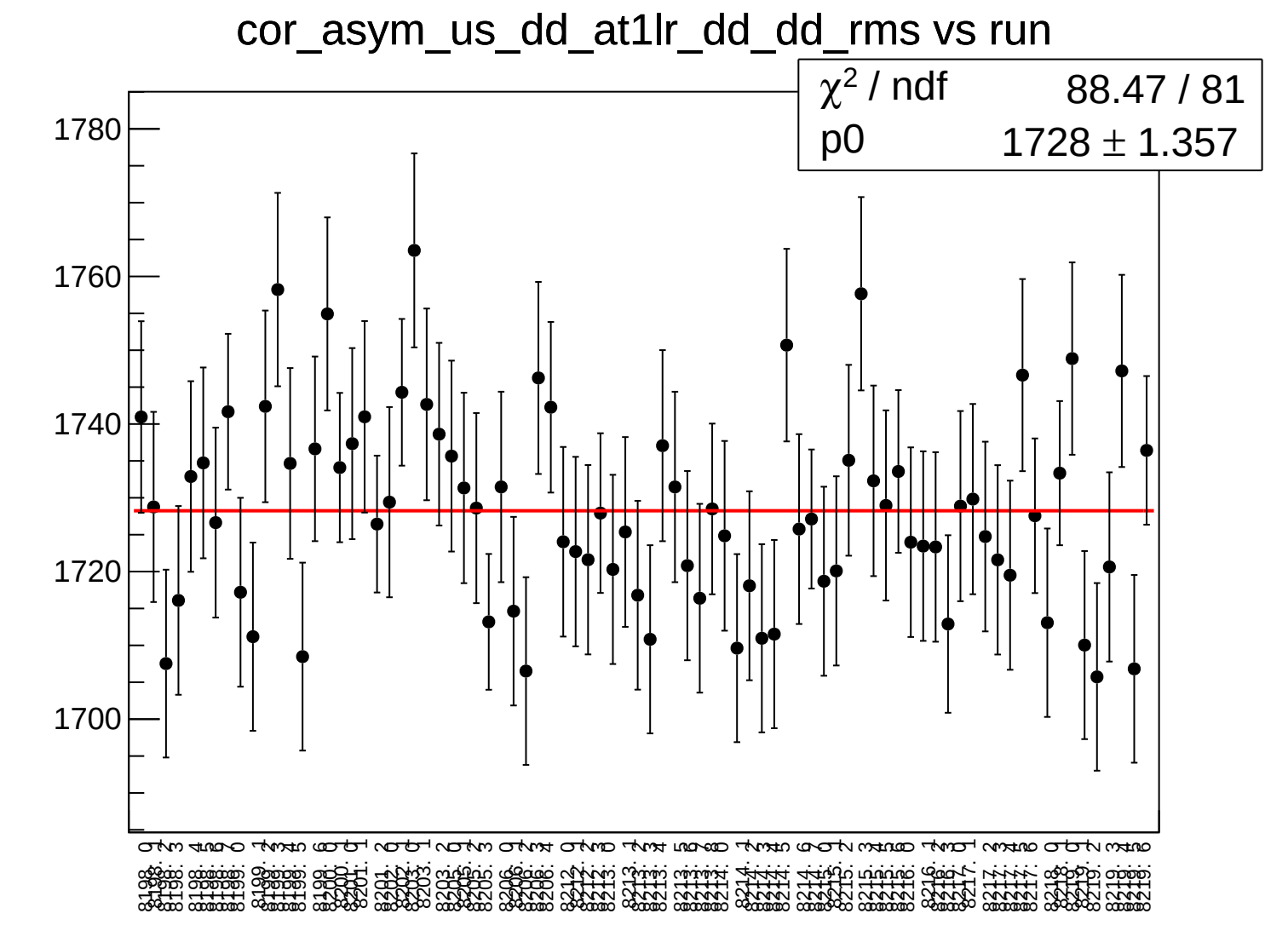

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 84.33 / 81
p0 −2100 ± 1344
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 1068
Std Dev 0
3
2
1
0
−1
−2
−3

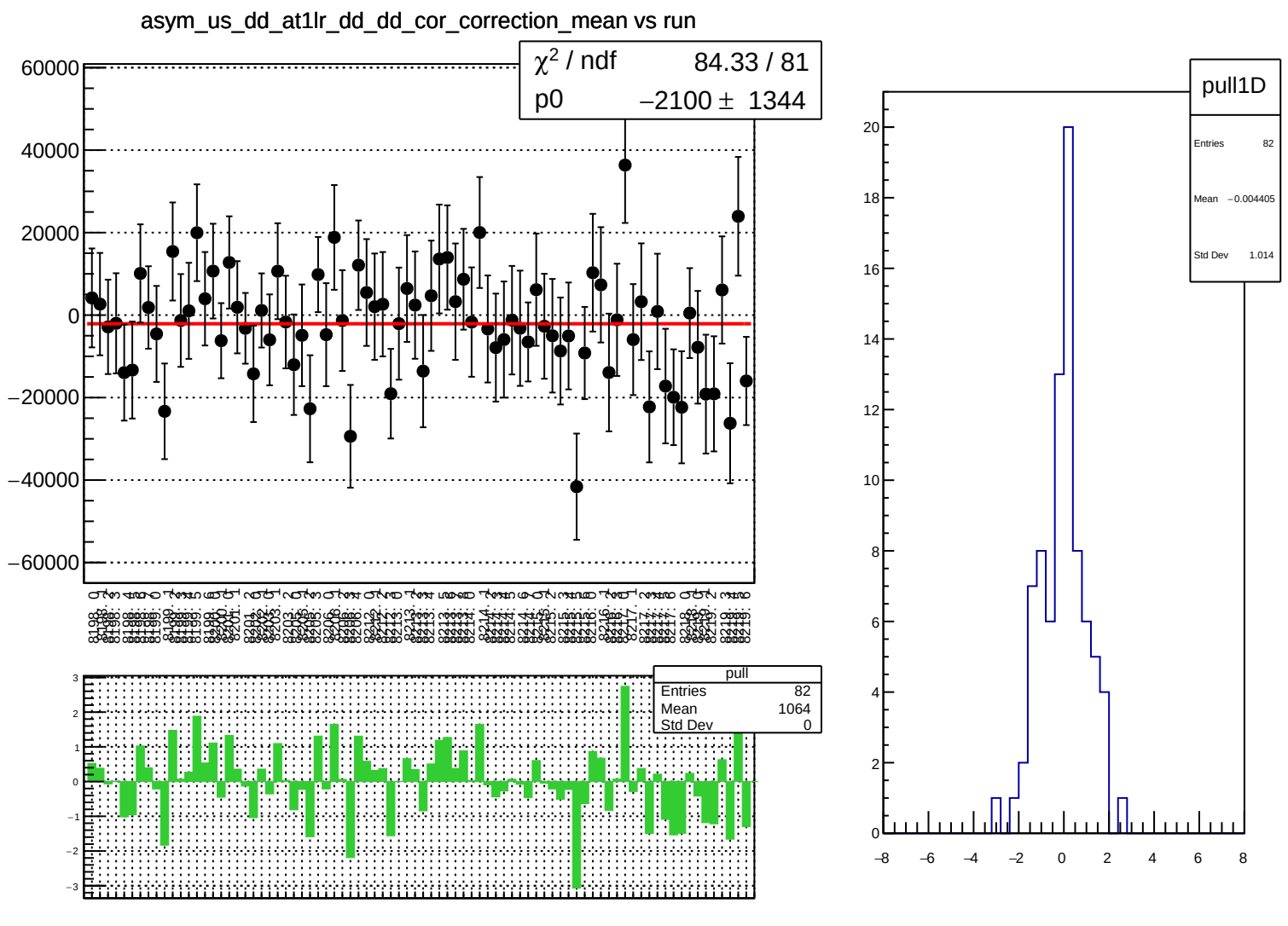

pull1D
Entries 82
Mean −0.004386
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

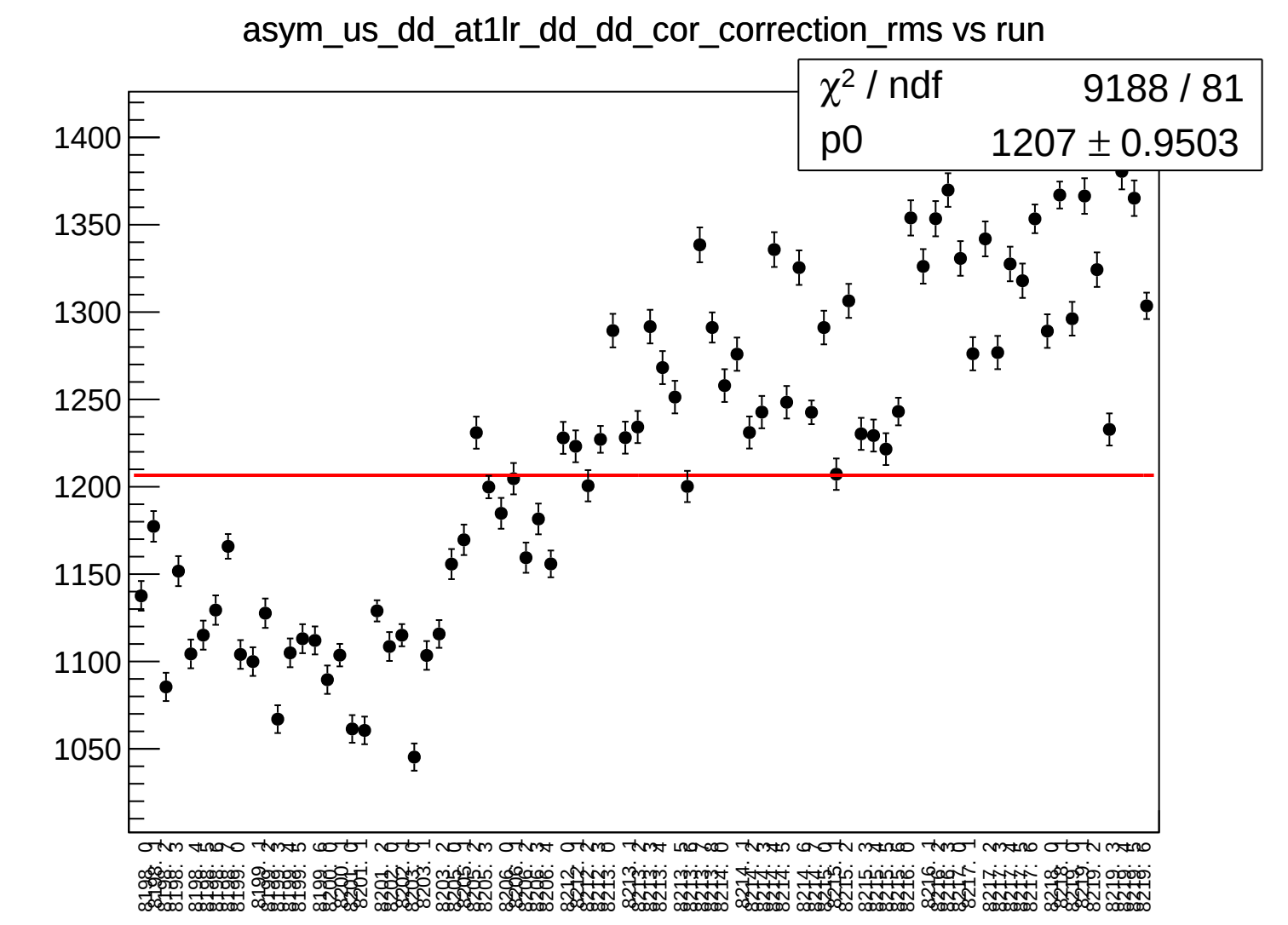

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 9190 / 81
p0 1207 ± 0.9503
1400
1350
1300
1250
1200
1150
1100
1050

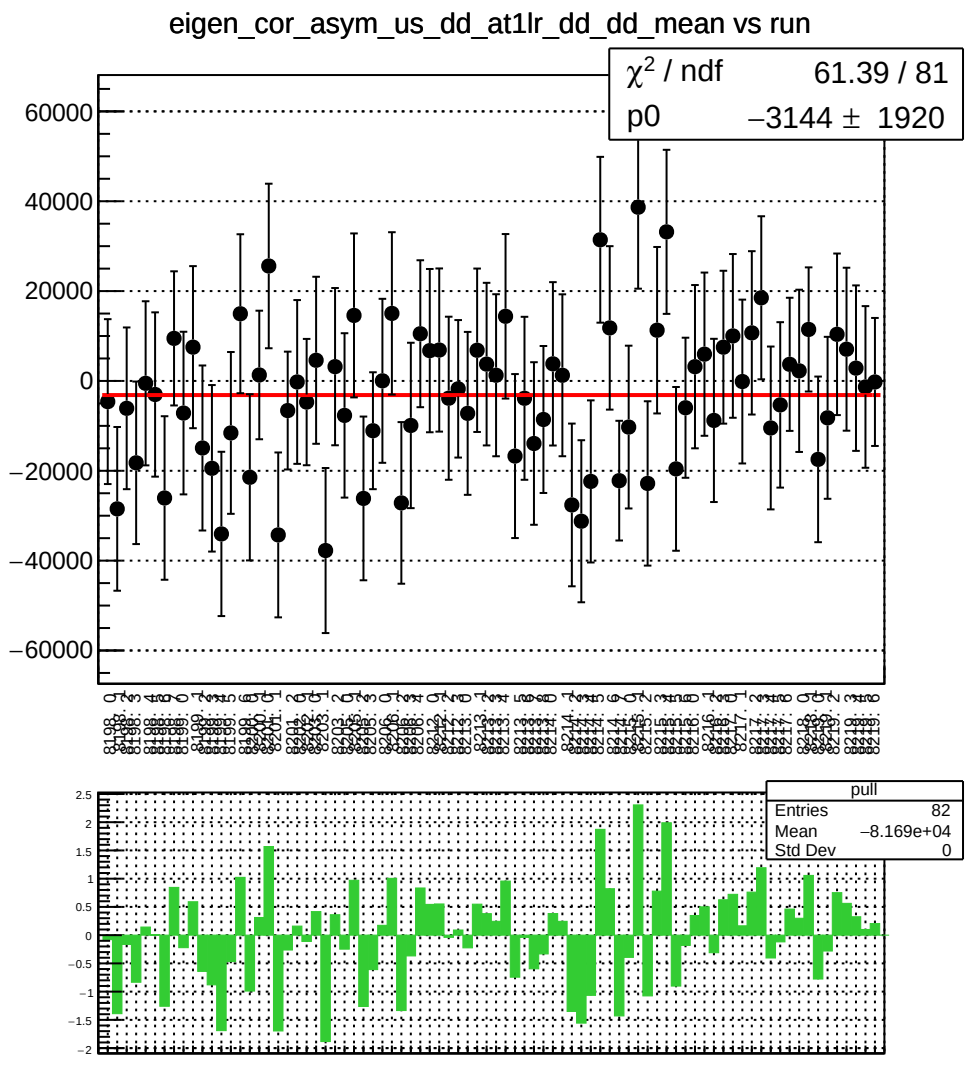

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 61.39 / 81
p0 −3144 ± 1920
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −8.169e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

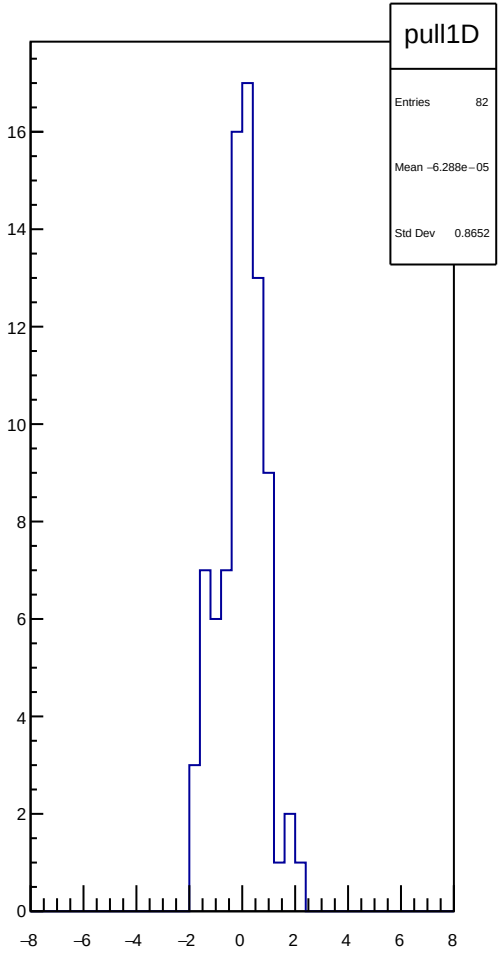

pull1D
Entries 82
Mean −6.288e−05
Std Dev 0.8652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

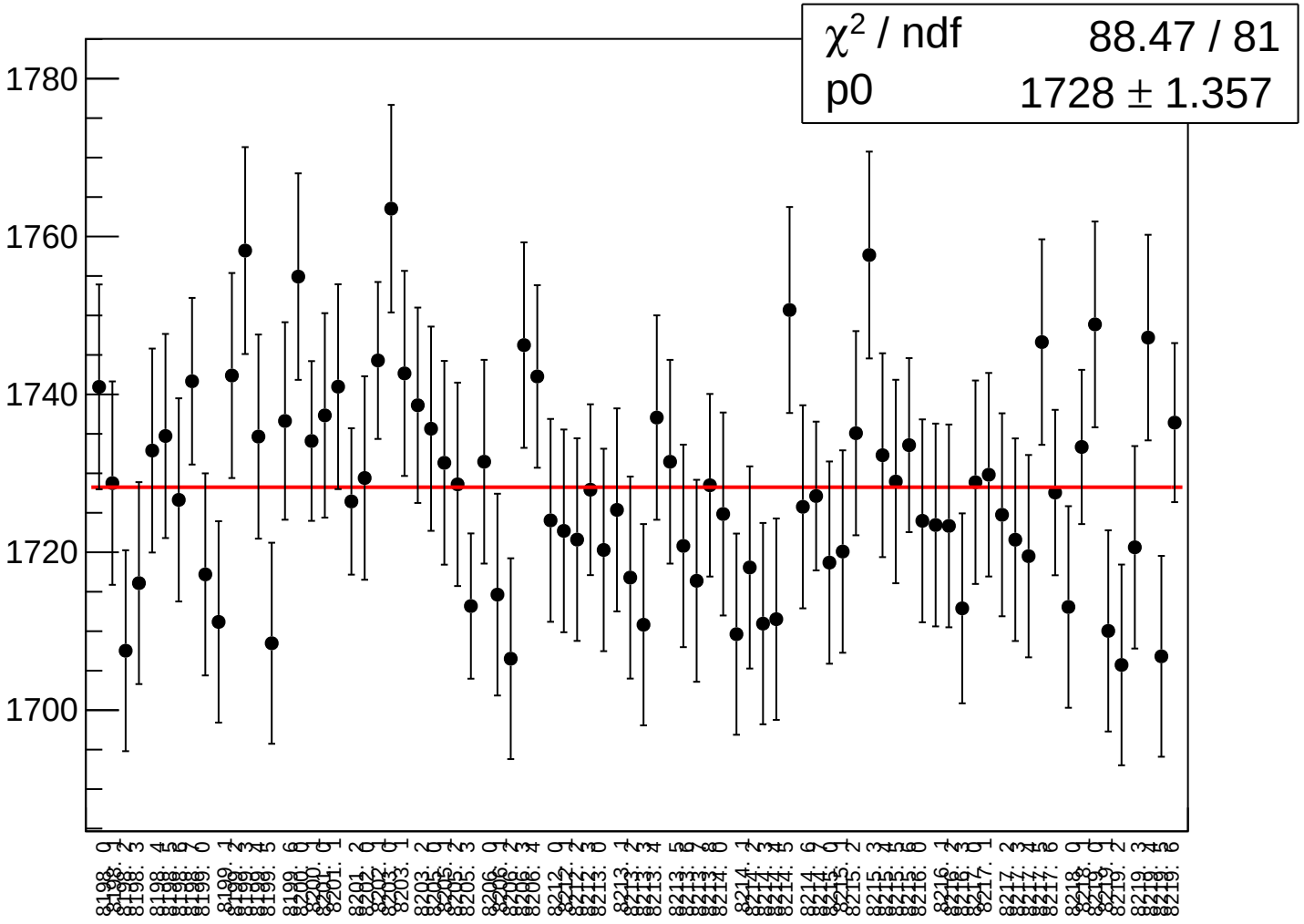

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 88.47 / 81
p0 1728 ± 1.357
1780
1760
1740
1720
1700

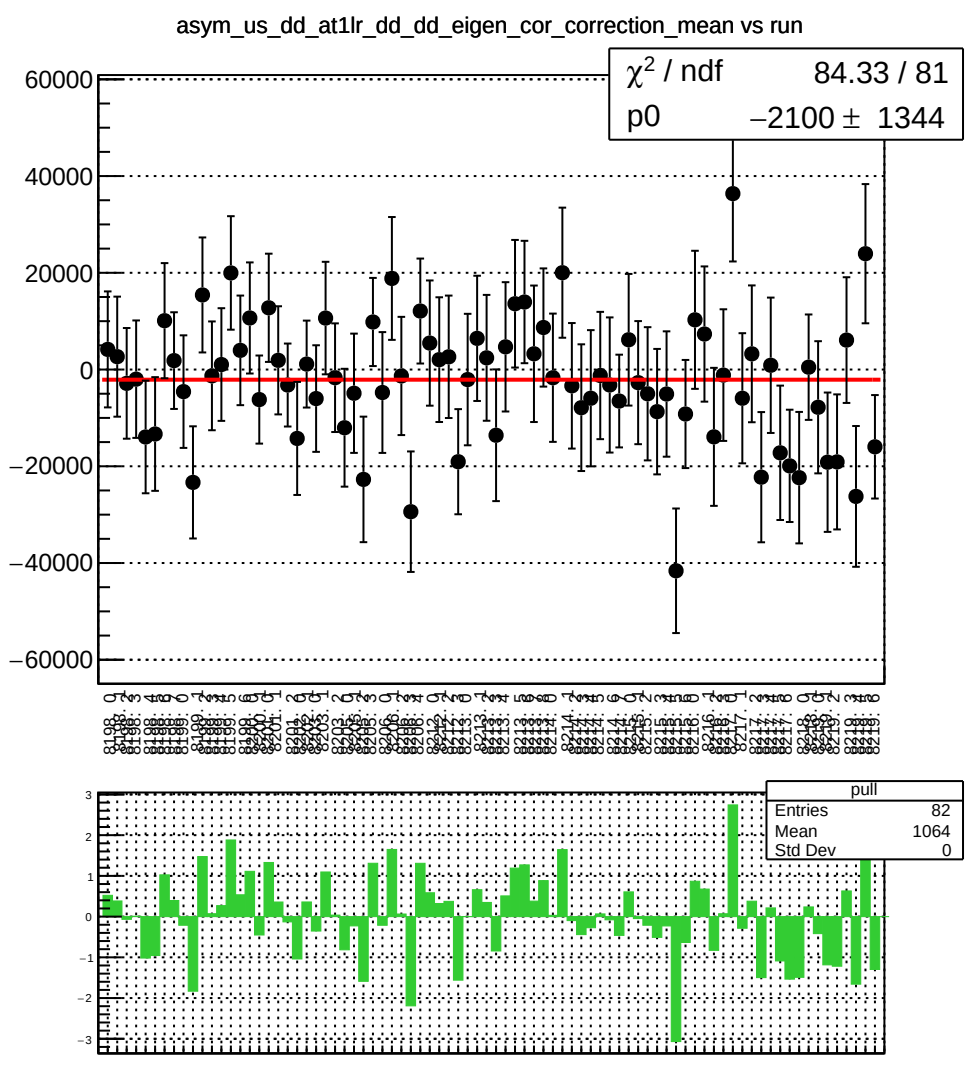

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 84.33 / 81
p0 −2100 ± 1344
pull
Entries 82
Mean 1064
Std Dev 0
pull1D
Entries 82
Mean −0.004405
Std Dev 1.014

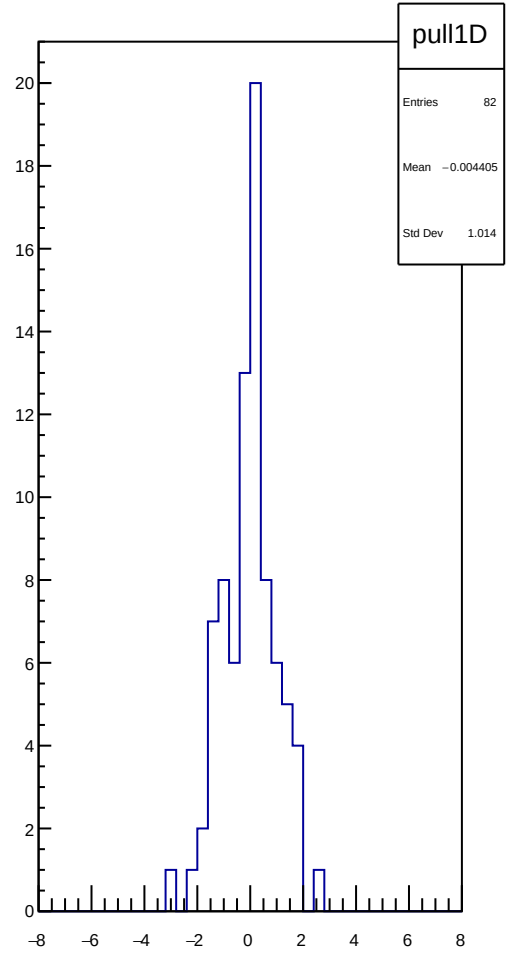

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 9188 / 81
p0 1207 ± 0.9503
1400
1350
1300
1250
1200
1150
1100
1050

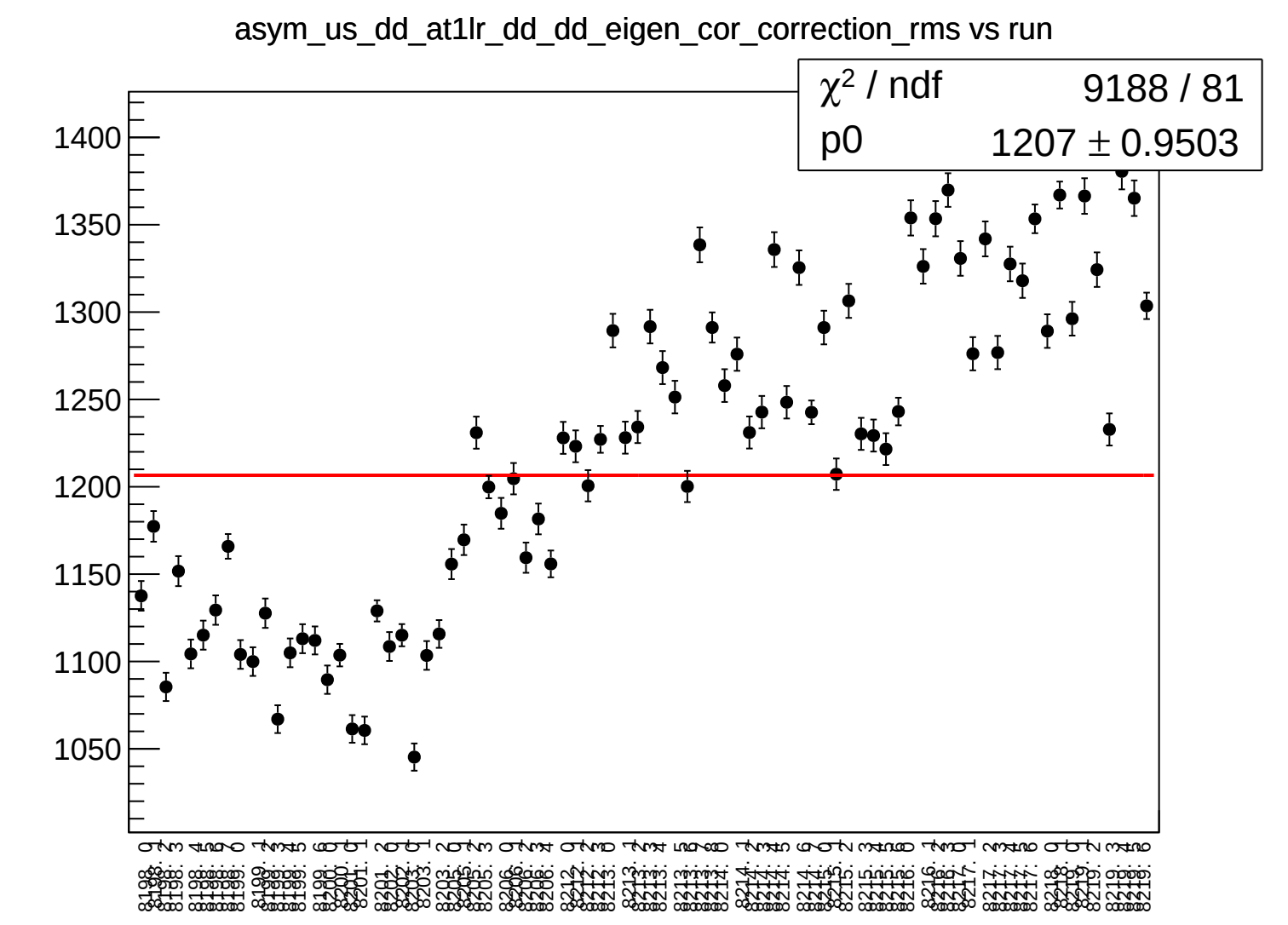

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 61.39 / 81
p0 −3144 ± 1920
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −8.169e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

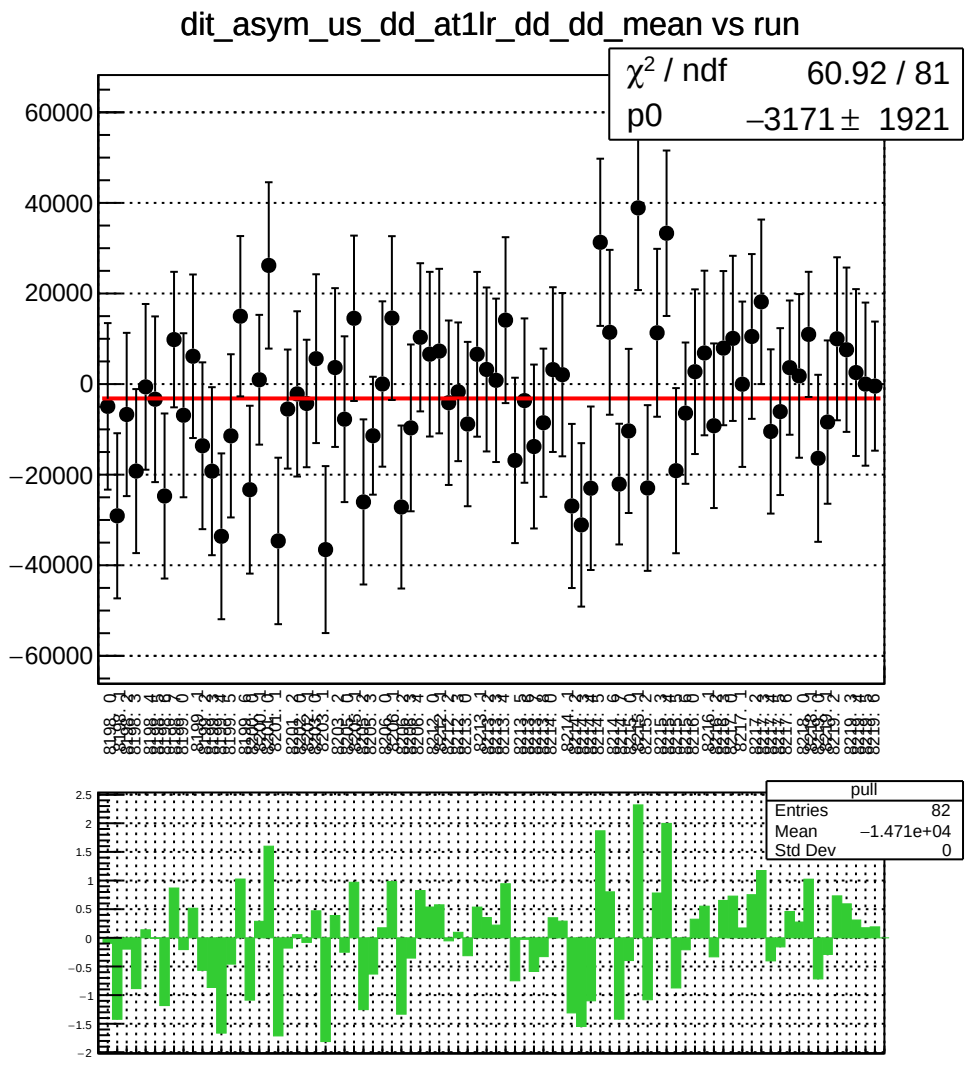

pull1D
Entries 82
Mean −6.288e−05
Std Dev 0.8652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

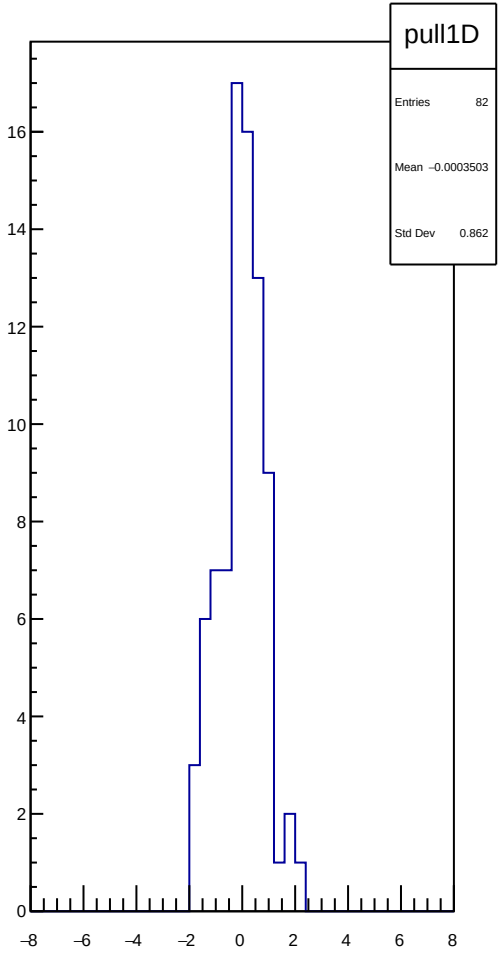

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 88.47 / 81
p0 1728 ± 1.357
1780
1760
1740
1720
1700

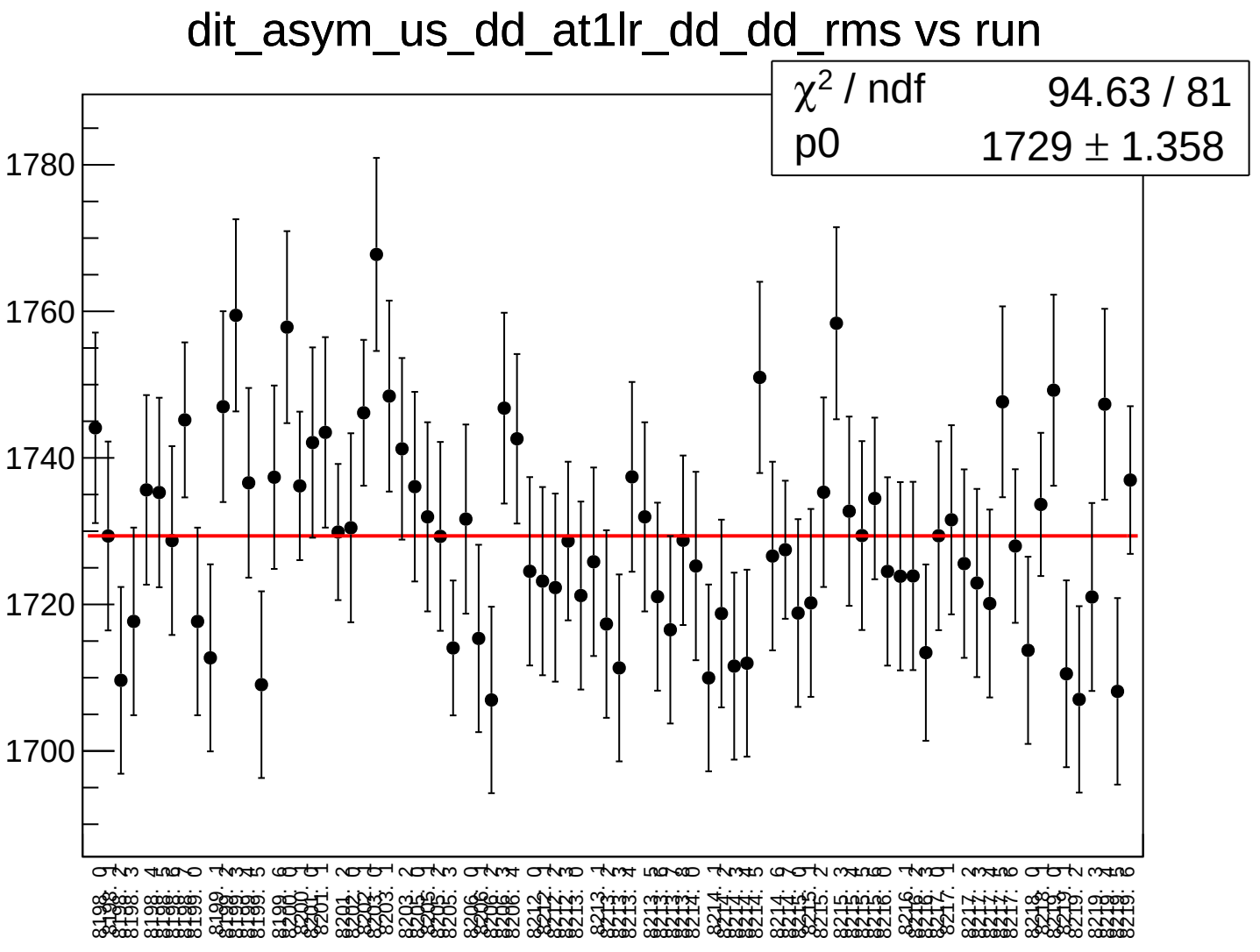

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.33 / 81
p0 −2100 ± 1344
pull
Entries 82
Mean 1064
Std Dev 0

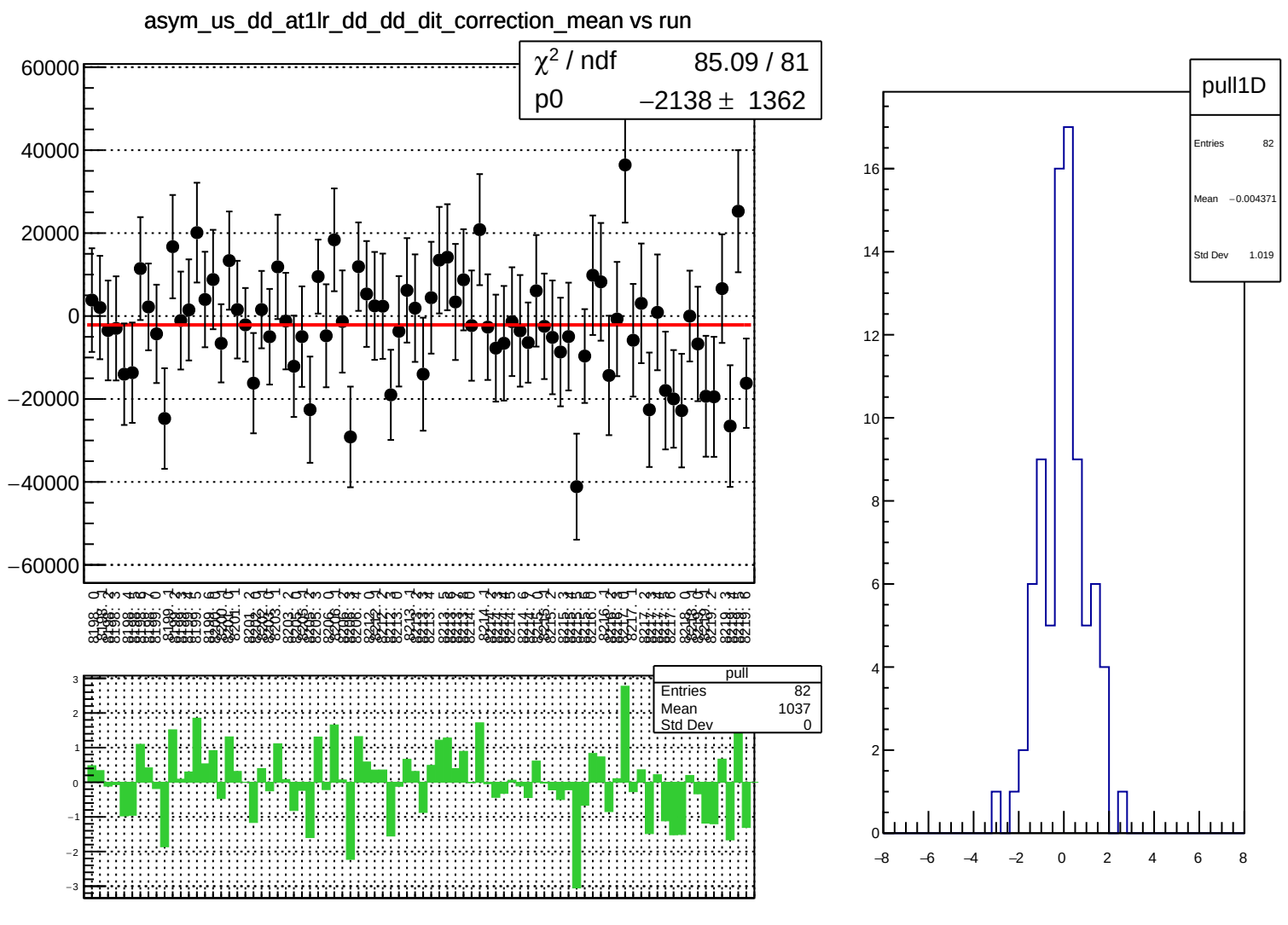

pull1D
Entries 82
Mean −0.004405
Std Dev 1.014

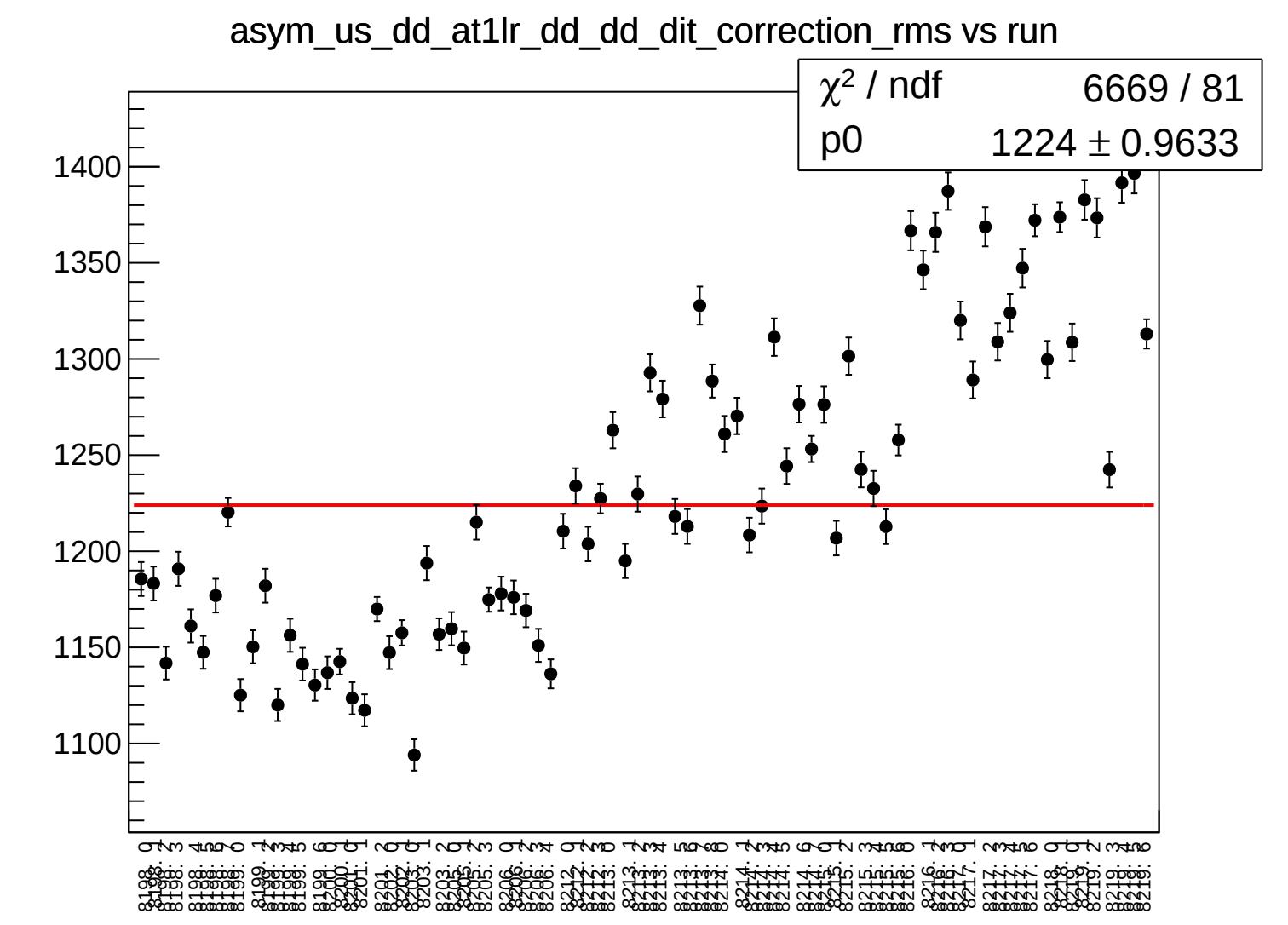

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9188 / 81
p0 1207 ± 0.9503
1400
1350
1300
1250
1200
1150
1100
1050

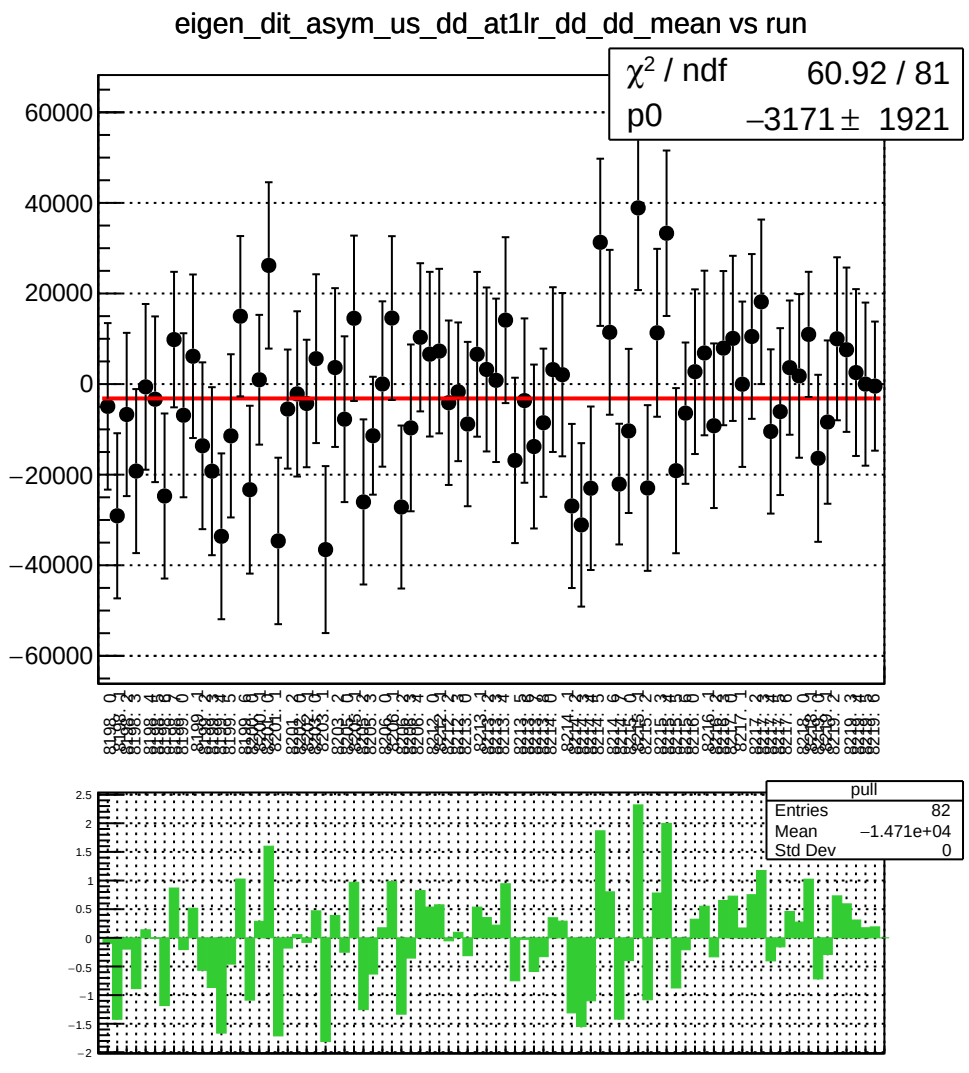

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 60.92 / 81
p0 −3171 ± 1921
pull
Entries 82
Mean −1.471e+04
Std Dev 0

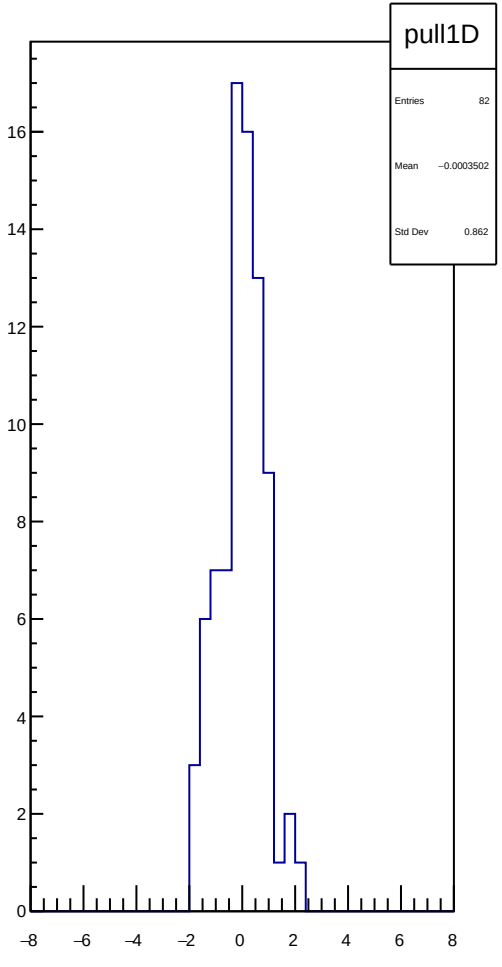

pull1D
Entries 82
Mean −0.0003503
Std Dev 0.862

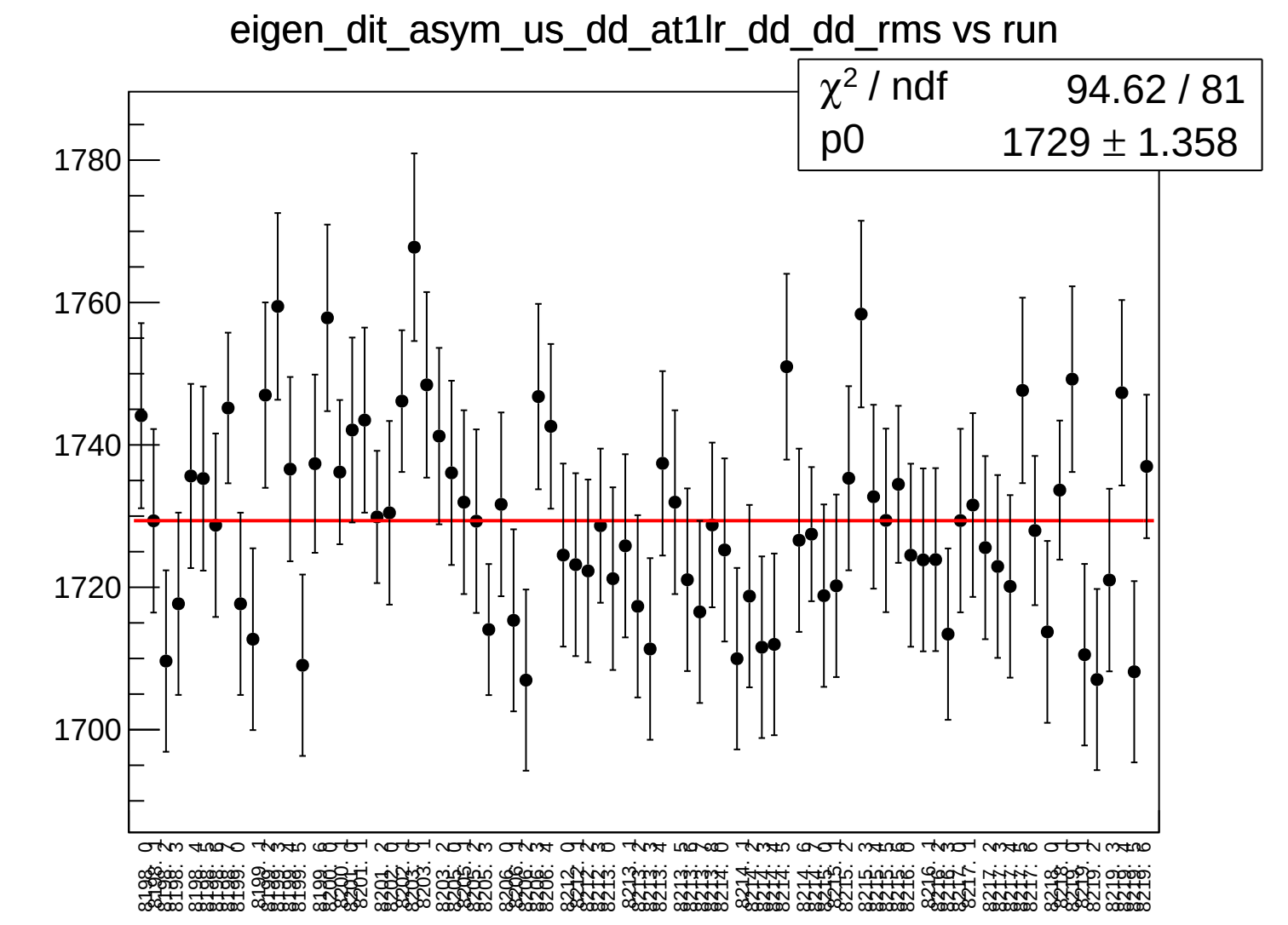

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 94.63 / 81
p0 1729 ± 1.358
1780
1760
1740
1720
1700

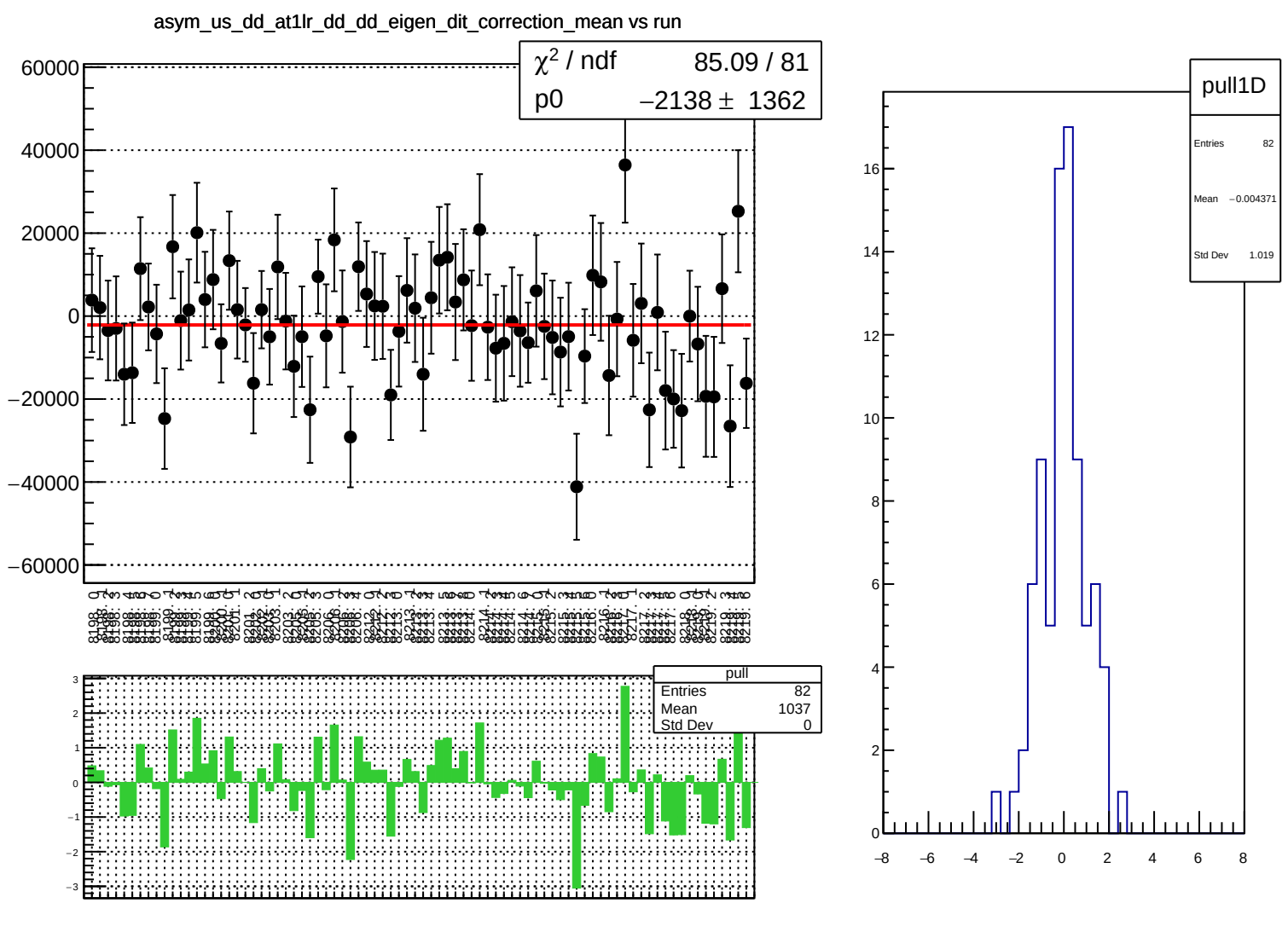

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 85.09 / 81
p0 −2138 ± 1362
pull
Entries 82
Mean 1037
Std Dev 0
pull1D
Entries 82
Mean −0.004371
Std Dev 1.019

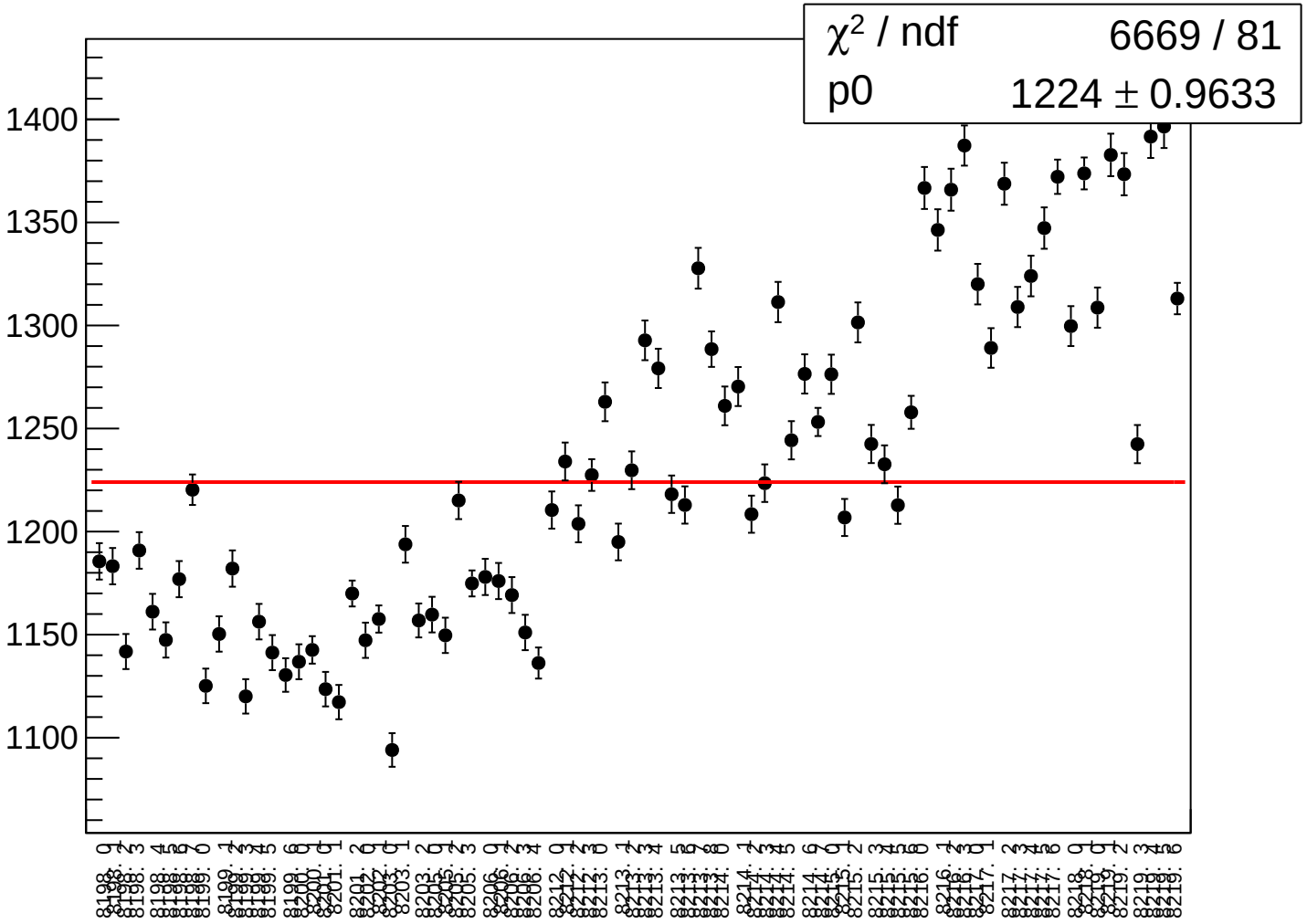

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 6669 / 81
p0 1224 ± 0.9633
1400
1350
1300
1250
1200
1150
1100

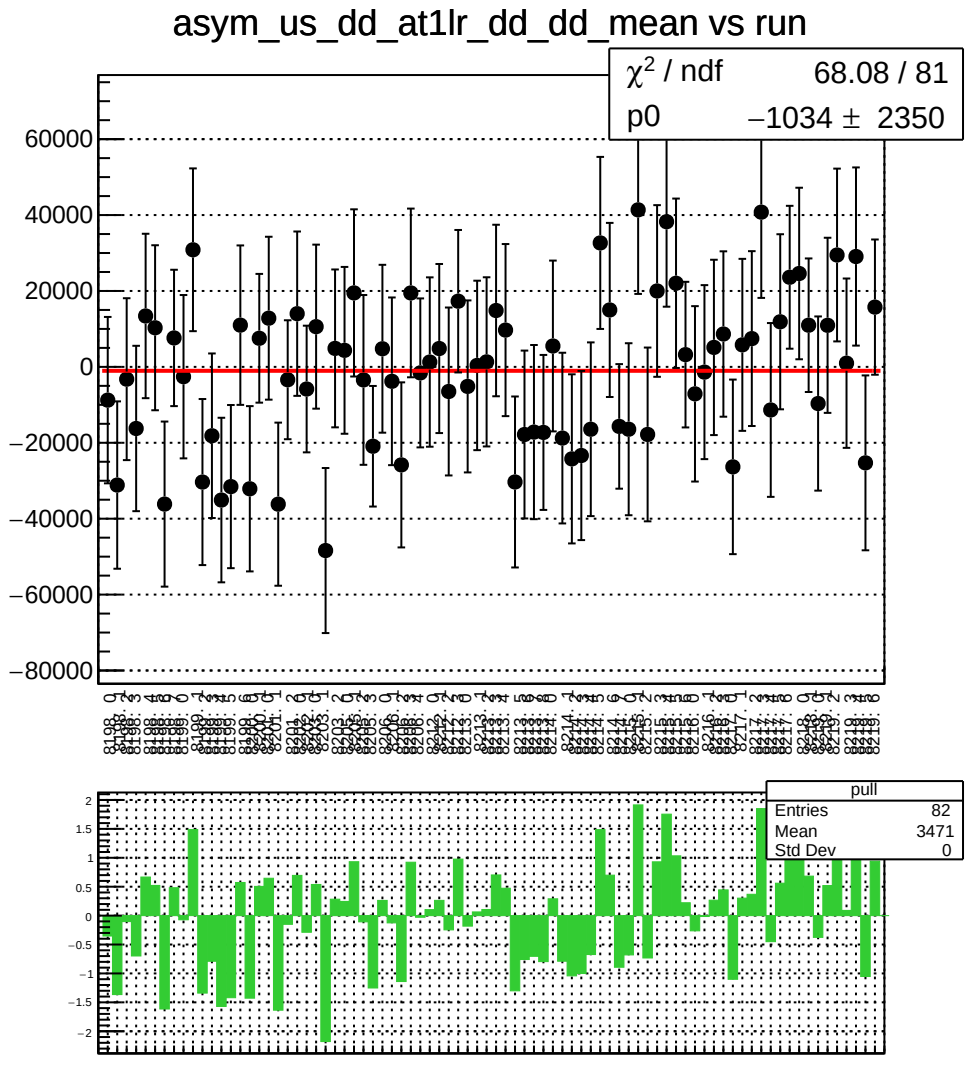

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 60.92 / 81
p0 −3171 ± 1921
pull
Entries 82
Mean −1.471e+04
Std Dev 0

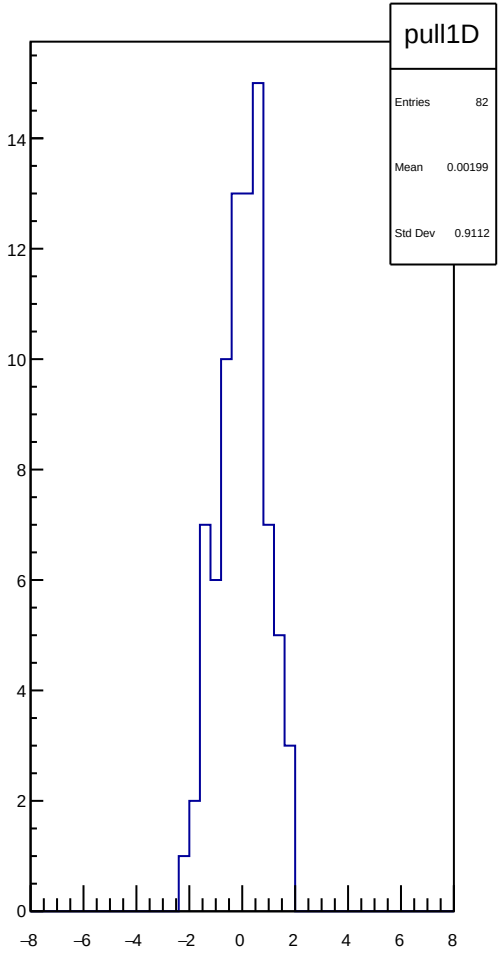

pull1D
Entries 82
Mean −0.0003502
Std Dev 0.862

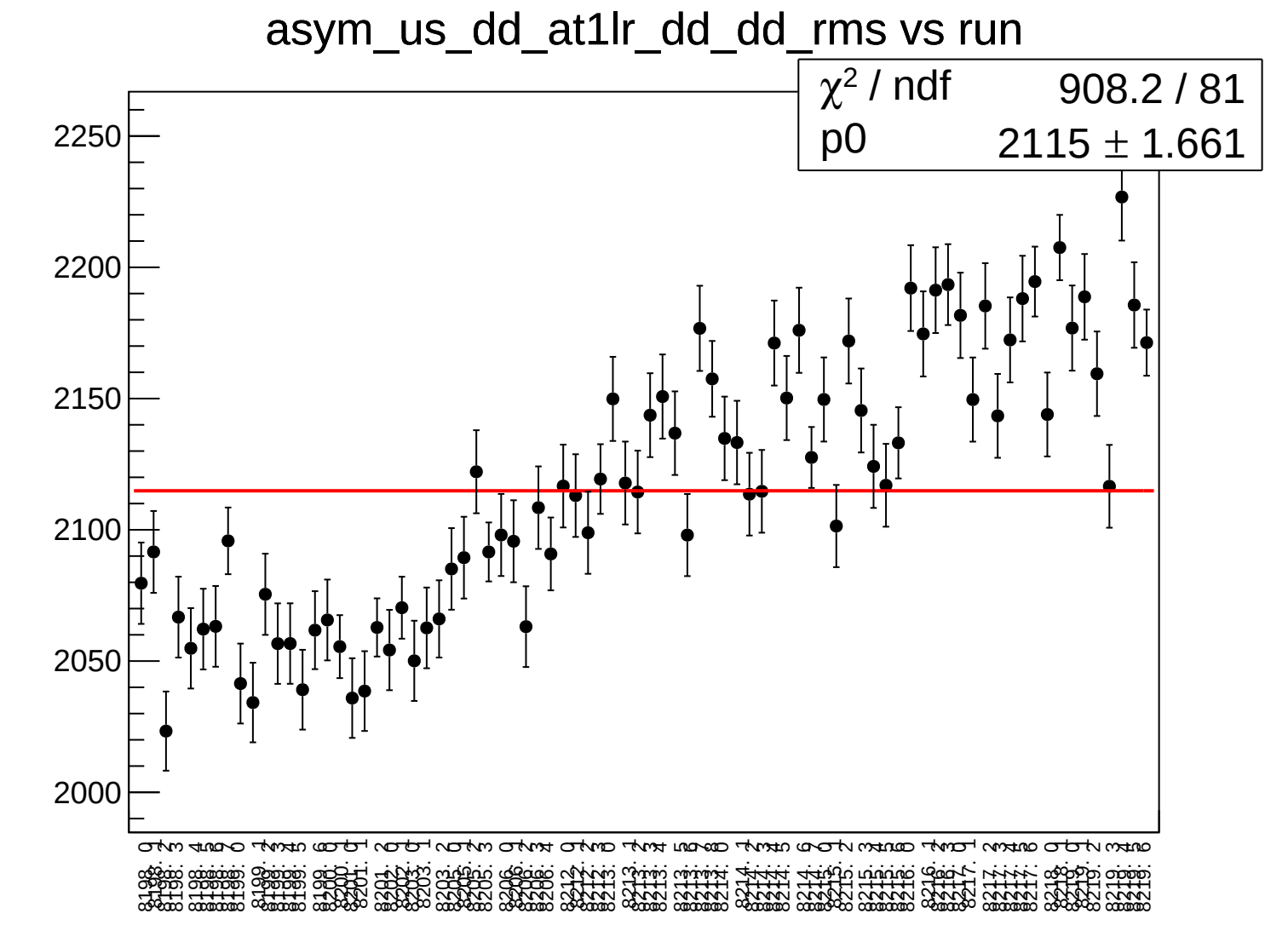

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 94.62 / 81
p0 1729 ± 1.358
1780
1760
1740
1720
1700

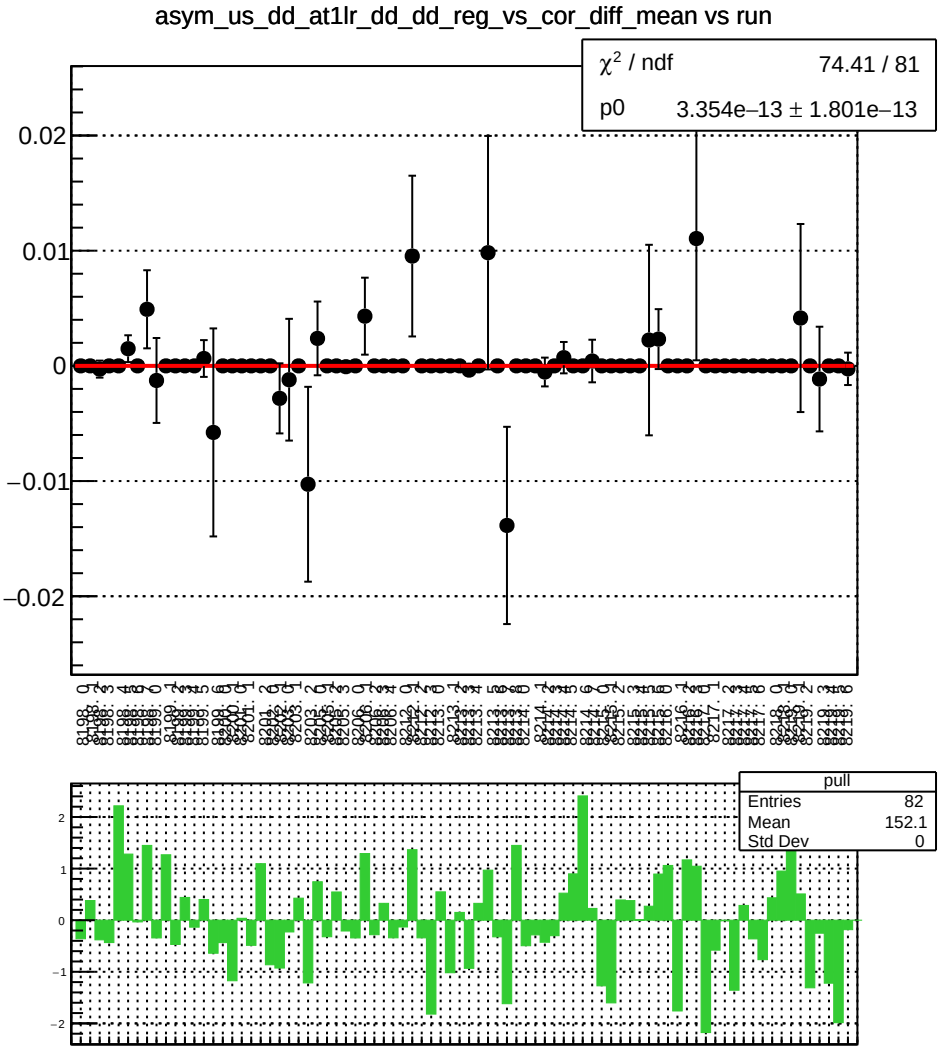

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.09 / 81
p0 −2138 ± 1362
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 1037
Std Dev 0
pull1D
Entries 82
Mean −0.004371
Std Dev 1.019

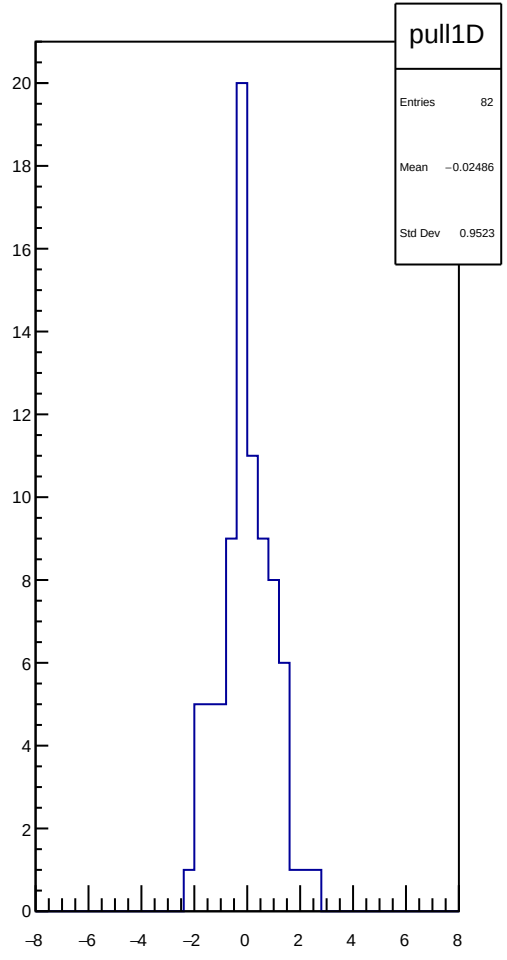

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6669 / 81
p0 1224 ± 0.9633
1400
1350
1300
1250
1200
1150
1100

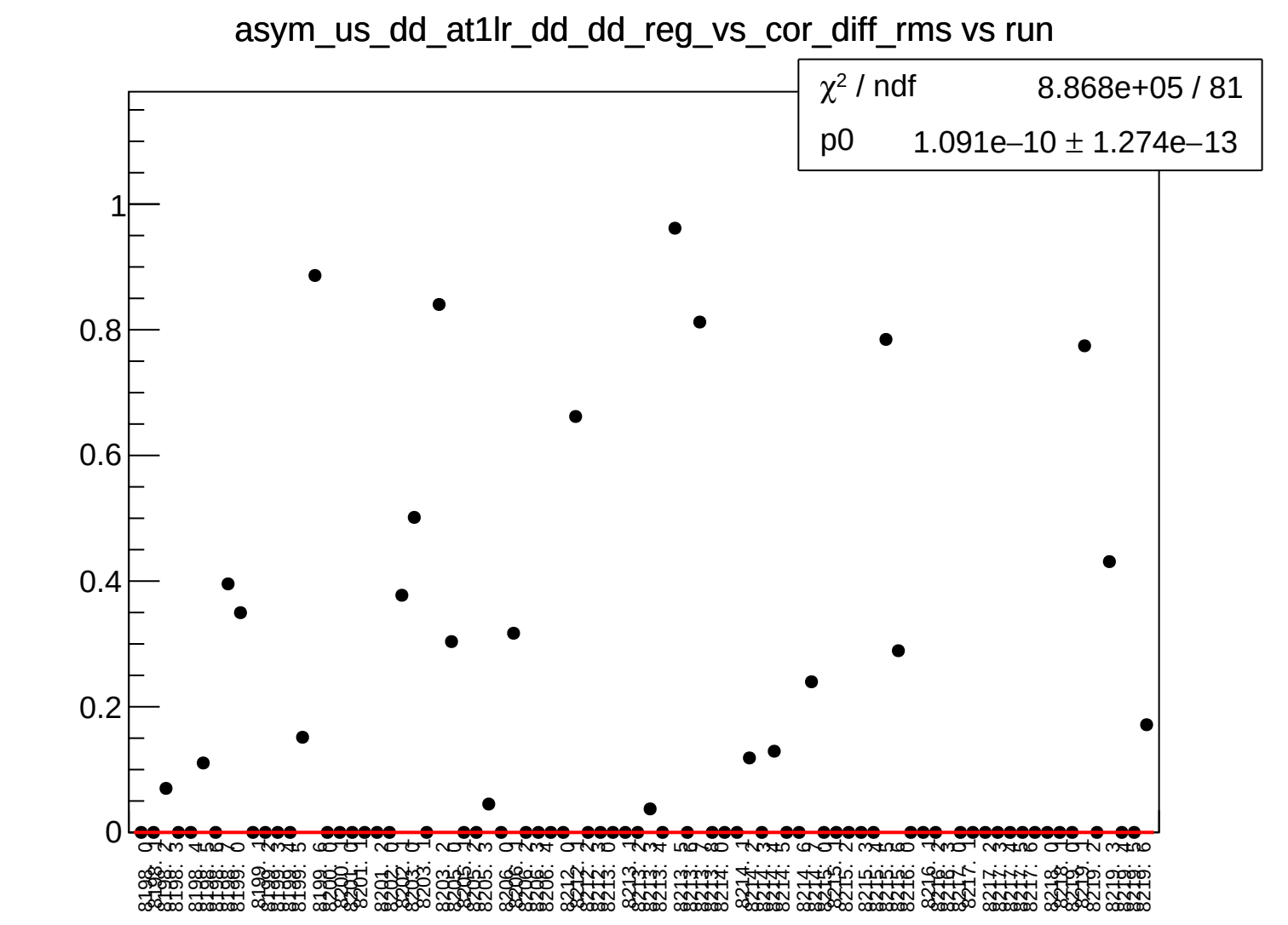

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 68.08 / 81
p0 −1034 ± 2350
pull
Entries 82
Mean 3471
Std Dev 0

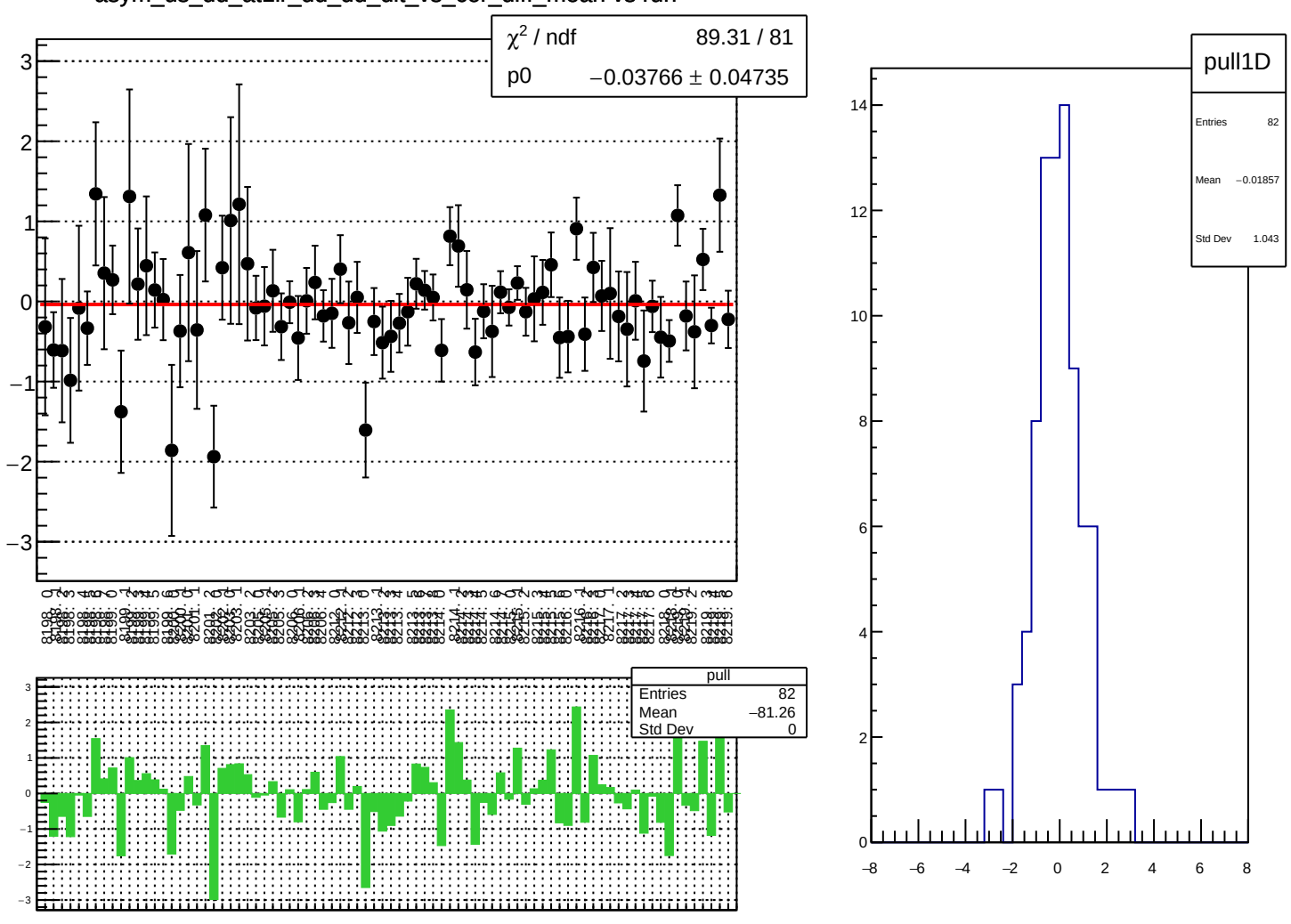

pull1D
Entries 82
Mean 0.00199
Std Dev 0.9112

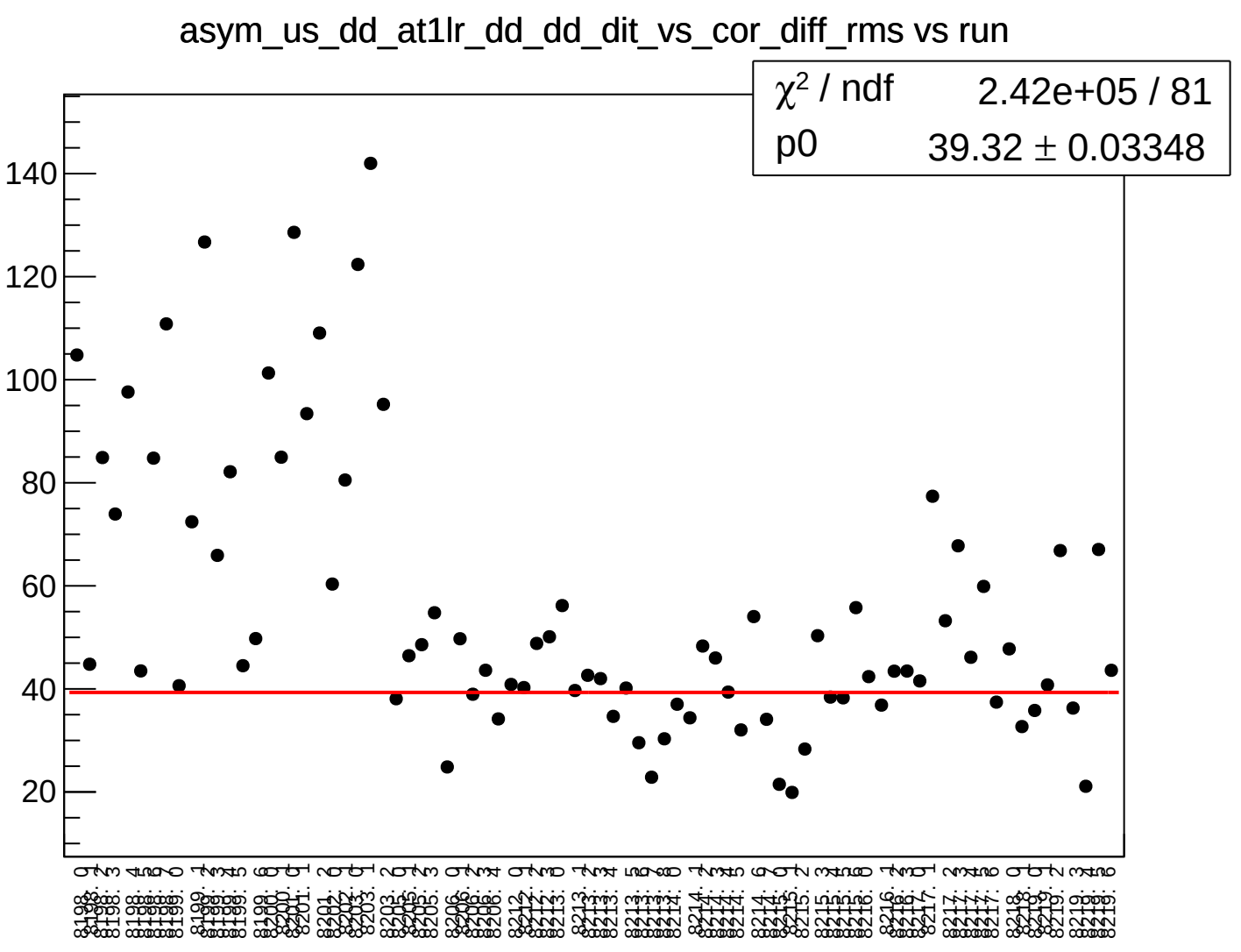

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 908.2 / 81
p0 2115 ± 1.661
2250
2200
2150
2100
2050
2000

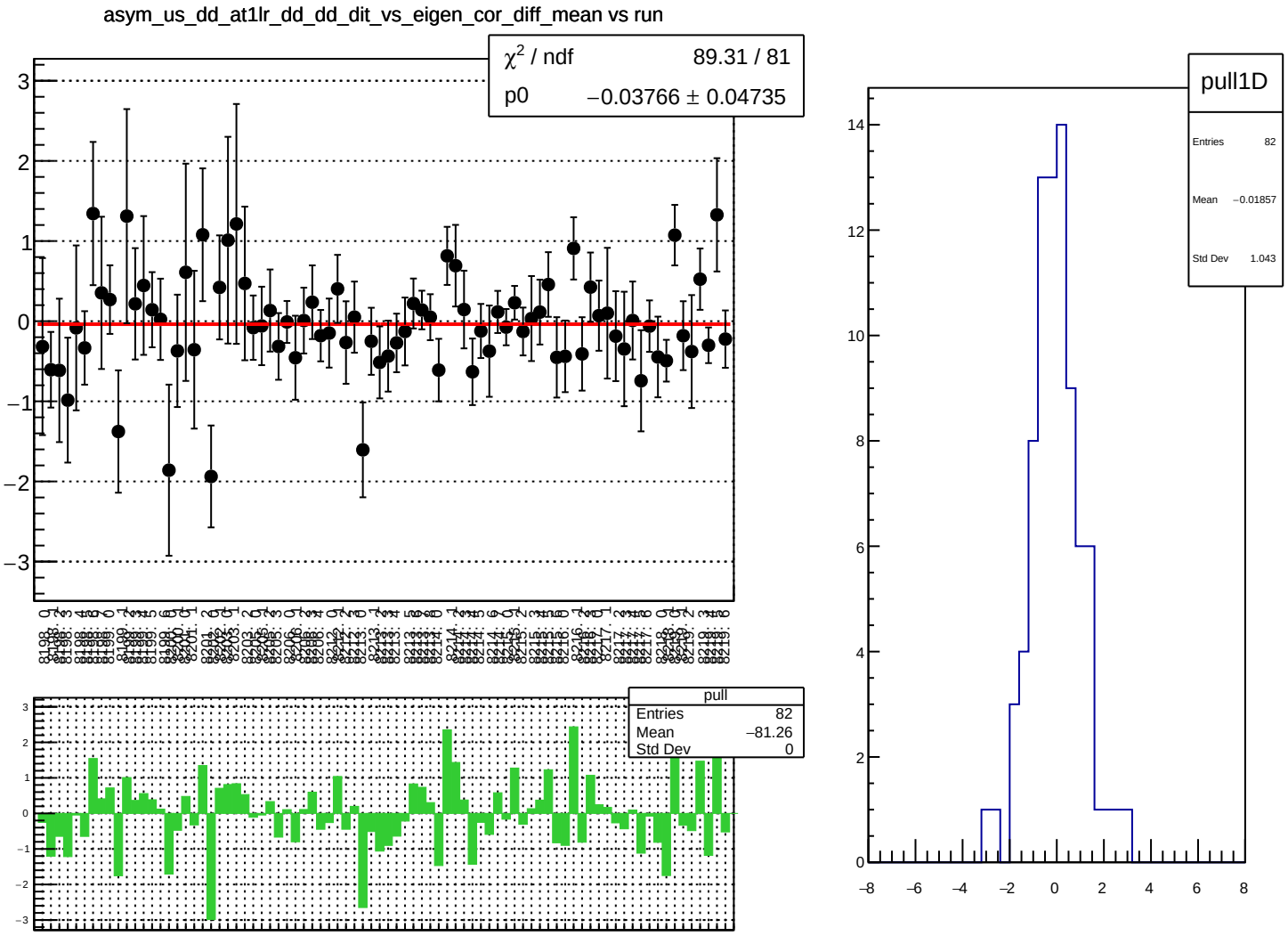

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.41 / 81
p0 3.354e−13 ± 1.801e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean 152.1
Std Dev 0
2
1
0
−1
−2

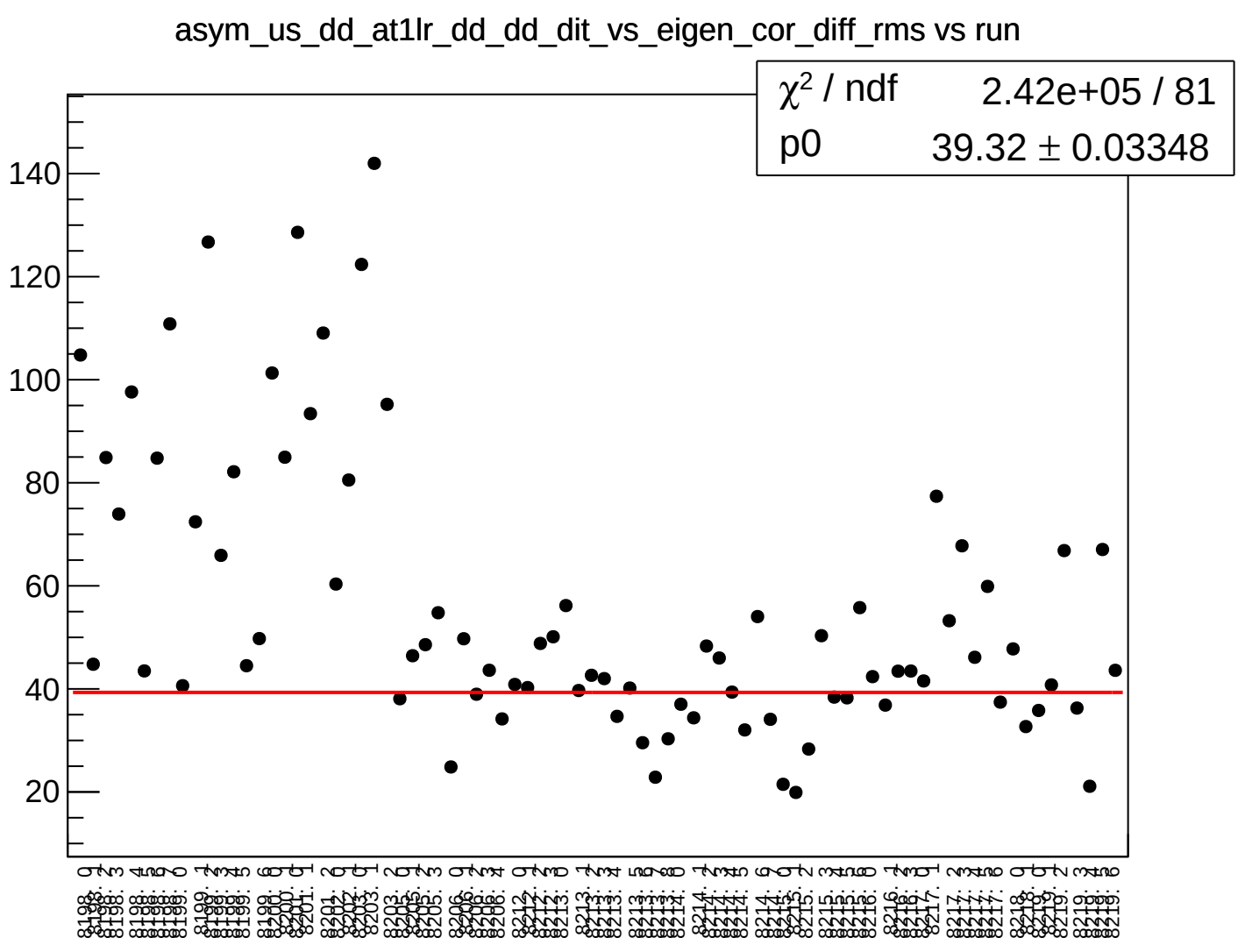

pull1D
Entries 82
Mean −0.02486
Std Dev 0.9523
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

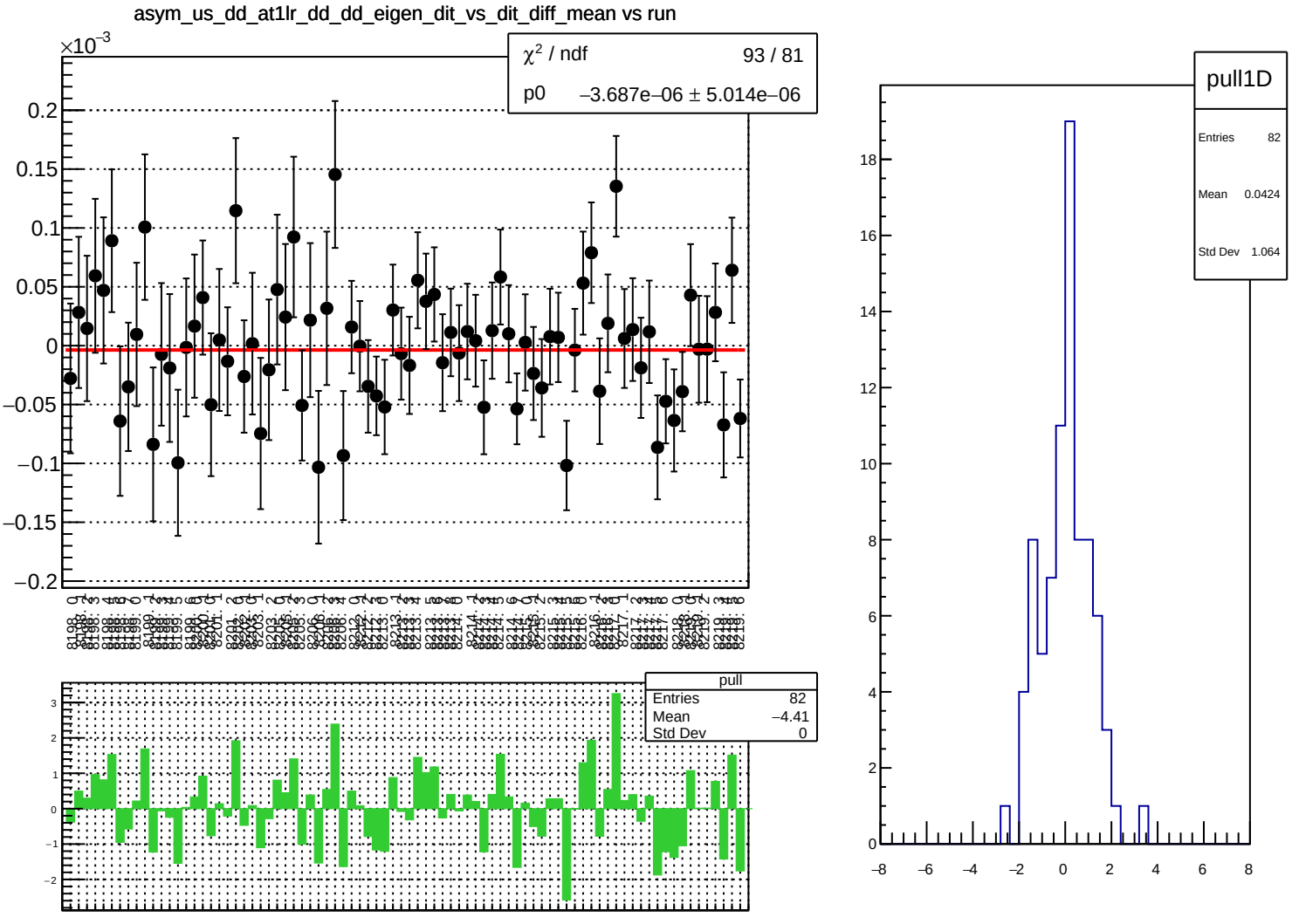

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.868e+05 / 81
p0 1.091e−10 ± 1.274e−13
1
0.8
0.6
0.4
0.2
0

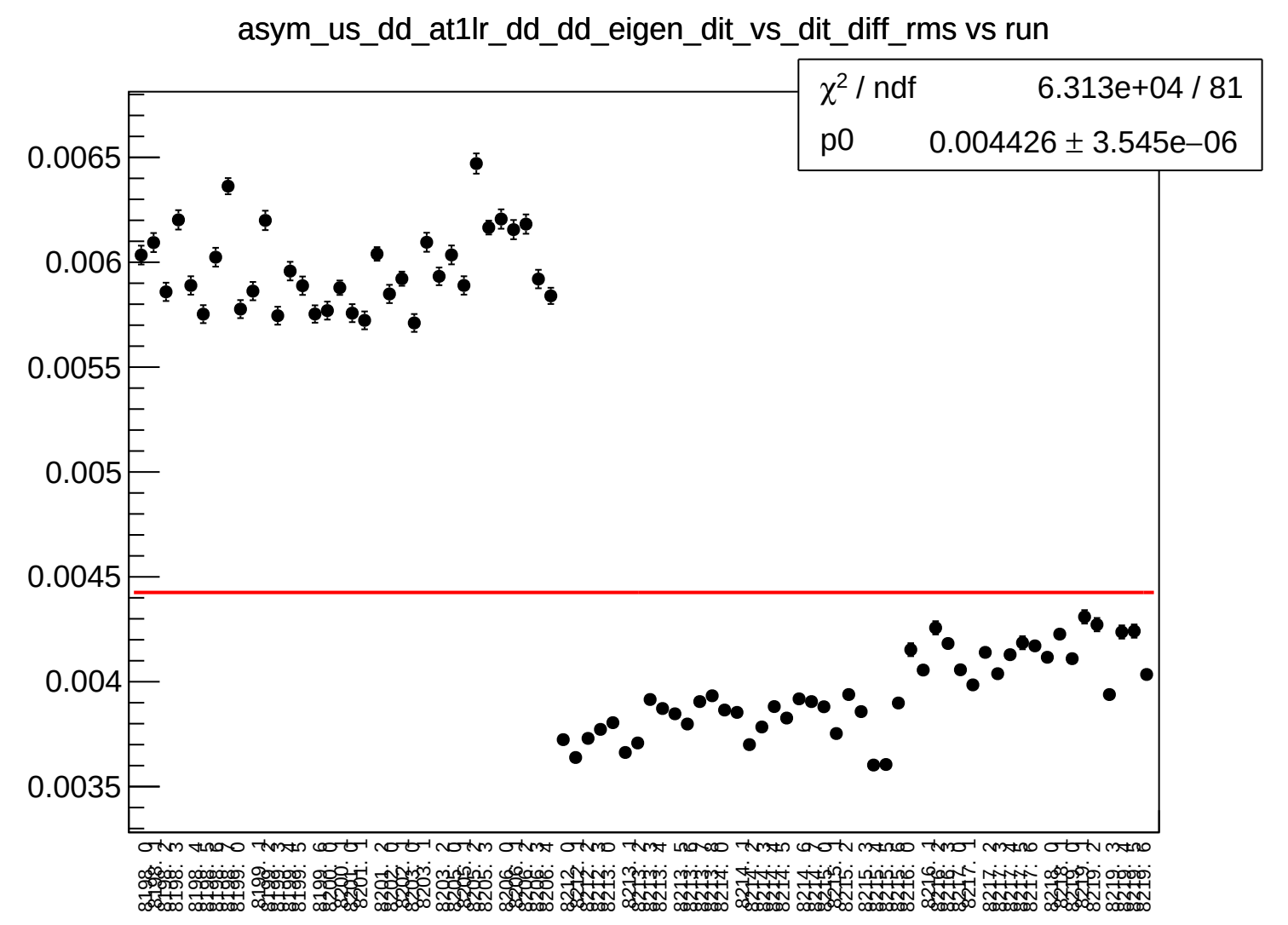

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.31 / 81
p0 −0.03766 ± 0.04735
pull
Entries 82
Mean −81.26
Std Dev 0
pull1D
Entries 82
Mean −0.01857
Std Dev 1.043

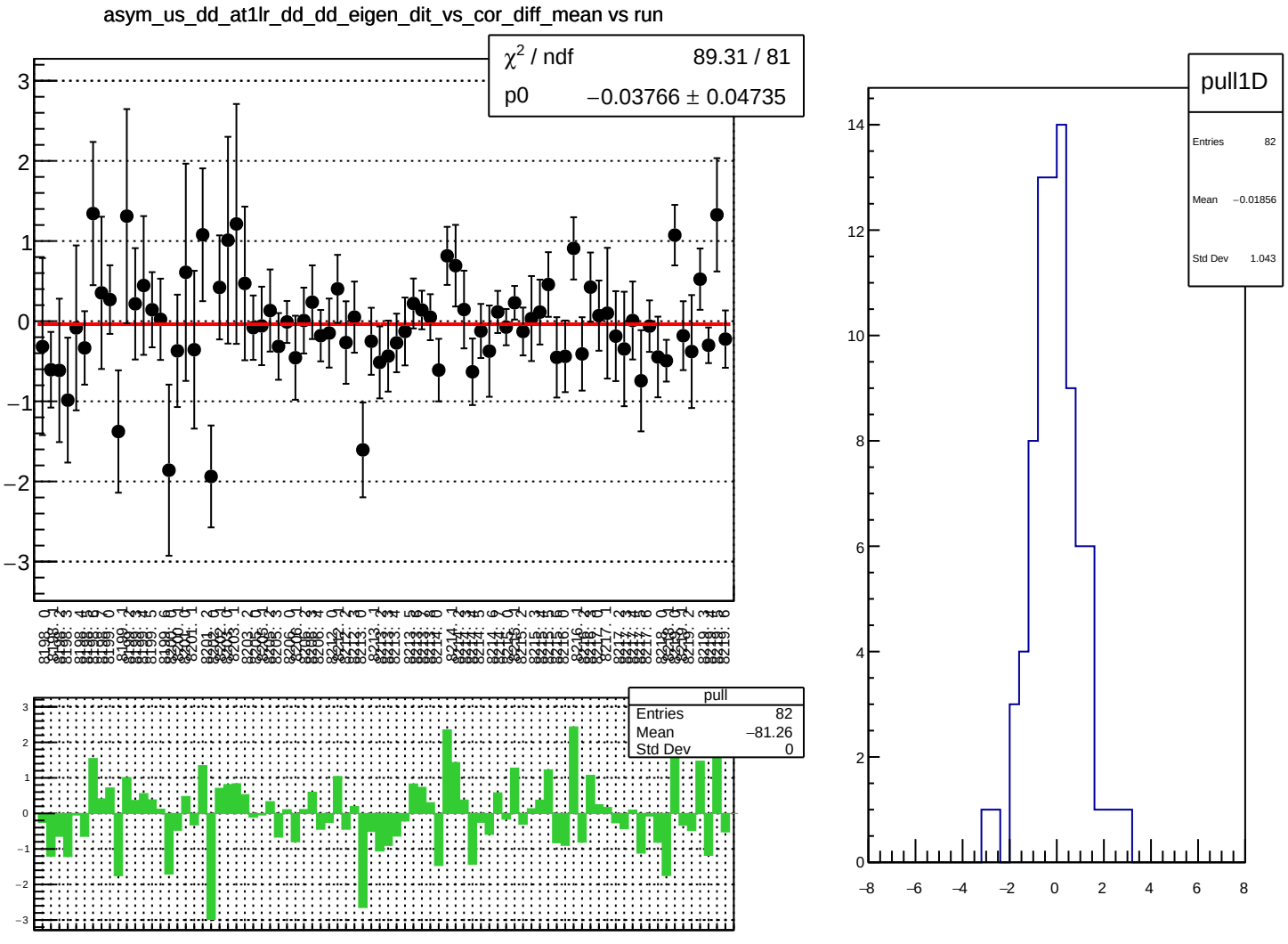

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.42e+05 / 81
p0 39.32 ± 0.03348
140
120
100
80
60
40
20

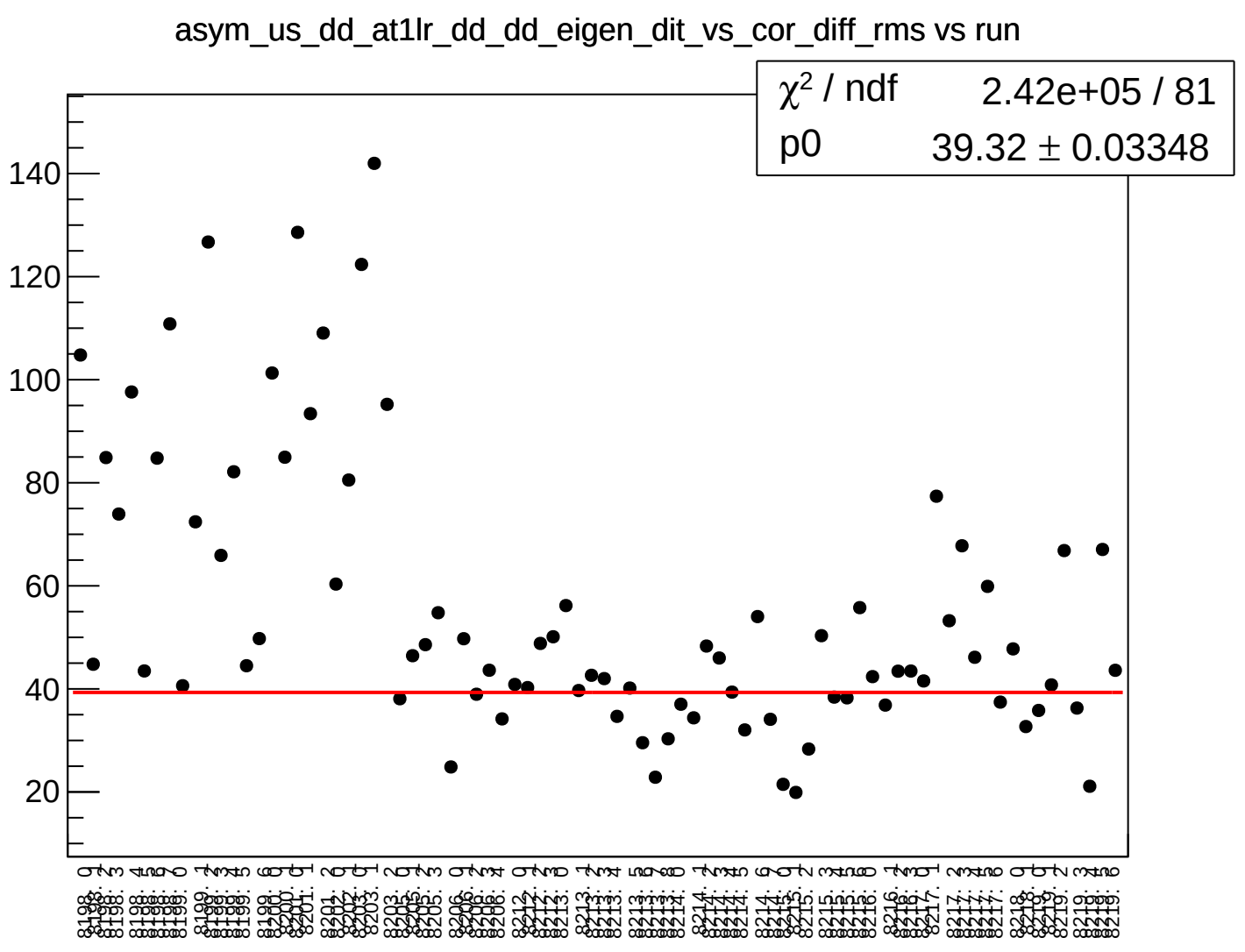

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.31 / 81
p0 −0.03766 ± 0.04735
pull
Entries 82
Mean −81.26
Std Dev 0
pull1D
Entries 82
Mean −0.01857
Std Dev 1.043

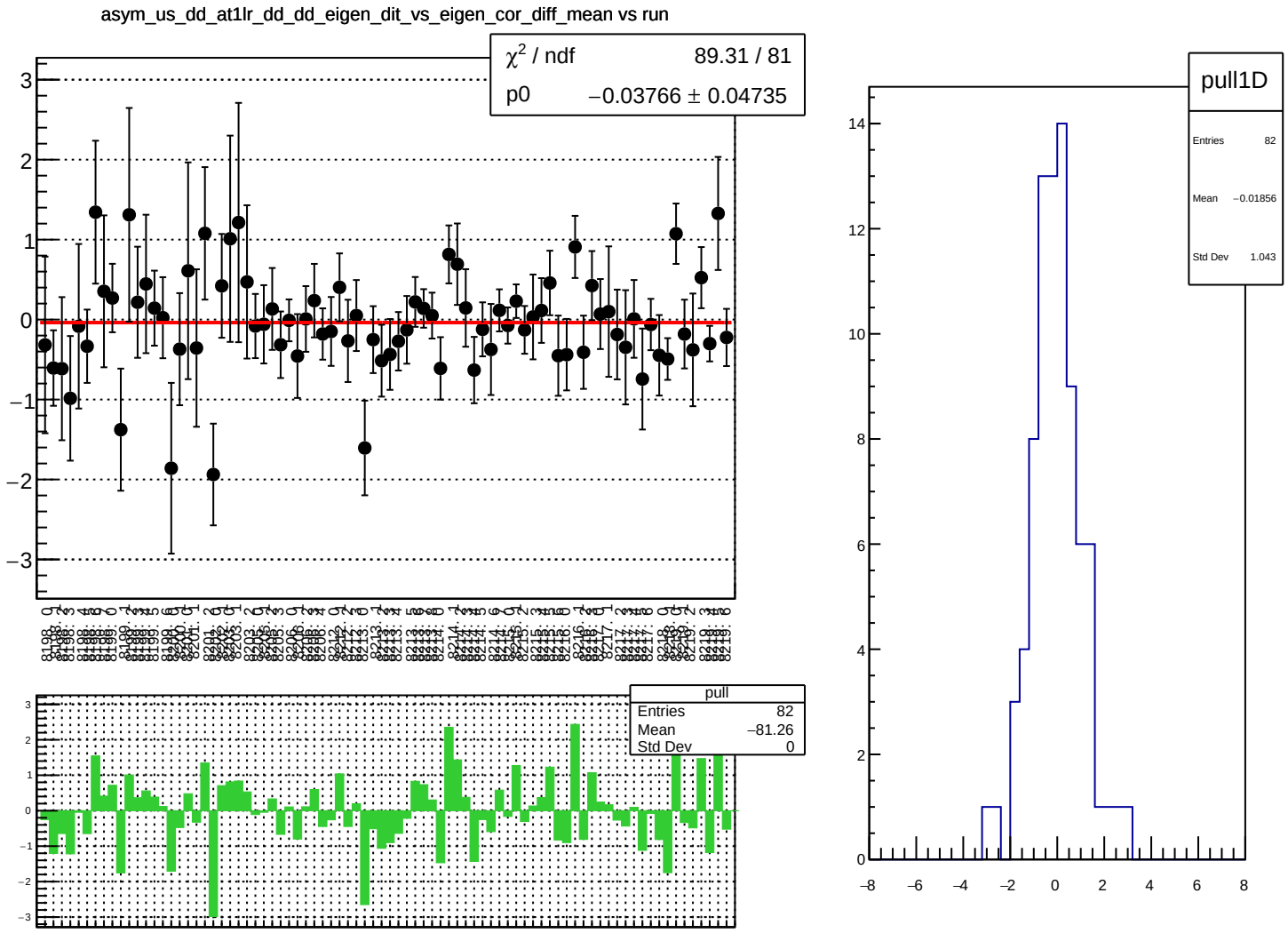

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.42e+05 / 81
p0 39.32 ± 0.03348
140
120
100
80
60
40
20

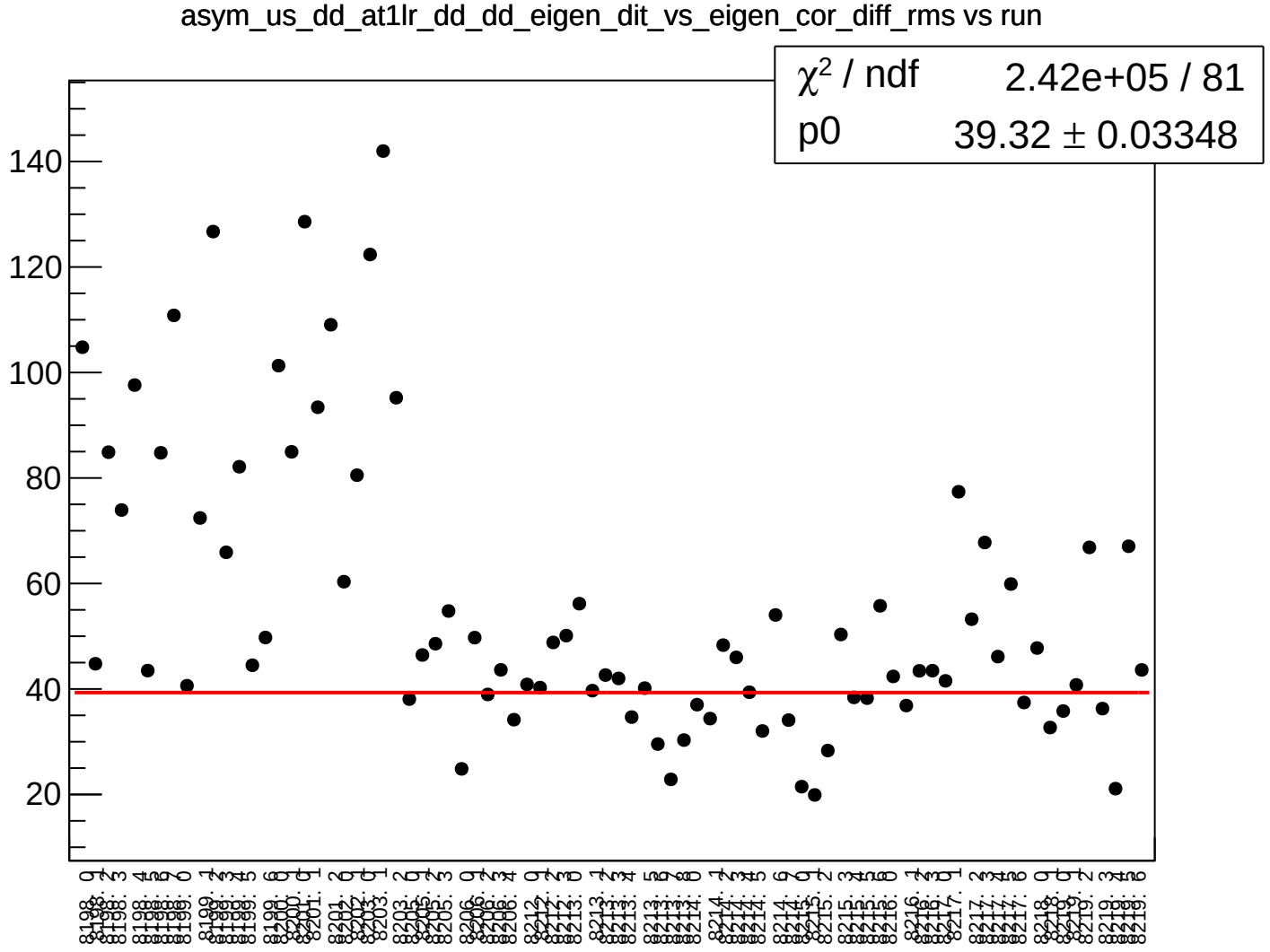

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93 / 81
p0 −3.687e−06 ± 5.014e−06
pull
Entries 82
Mean −4.41
Std Dev 0
pull1D
Entries 82
Mean 0.0424
Std Dev 1.064

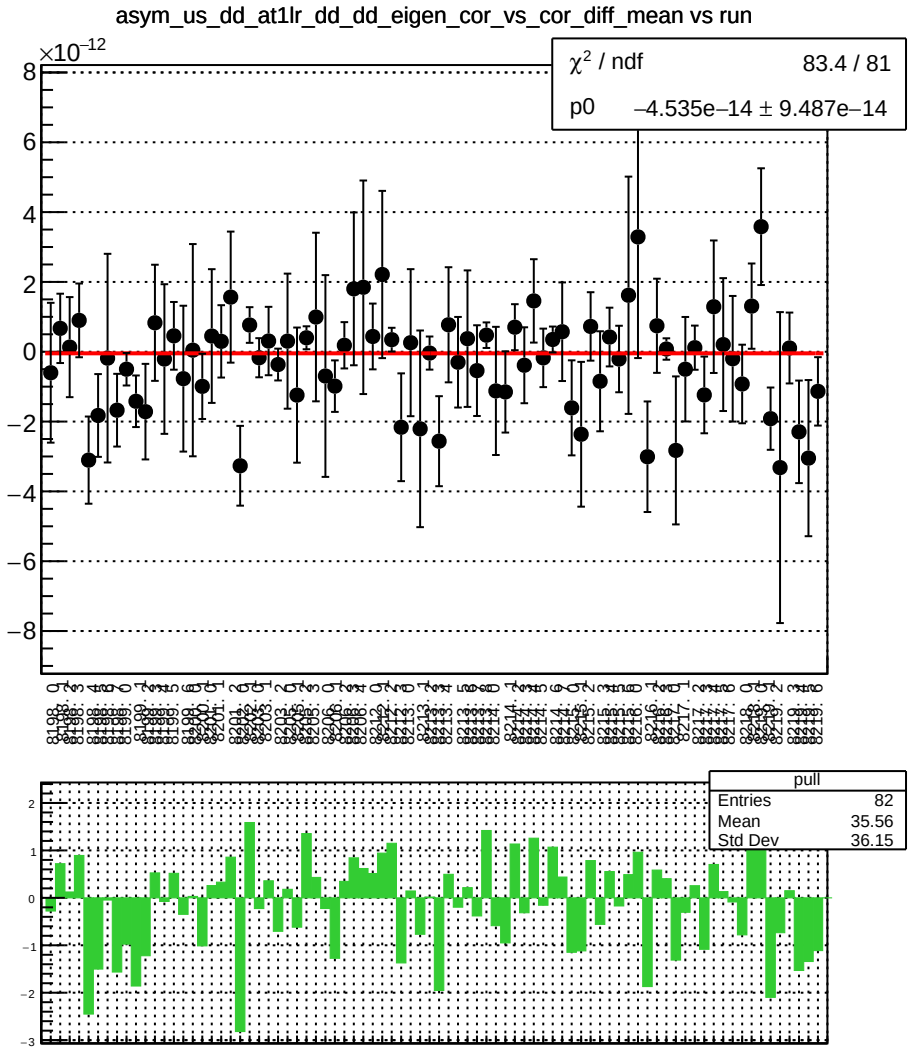

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.313e+04 / 81
p0 0.004426 ± 3.545e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

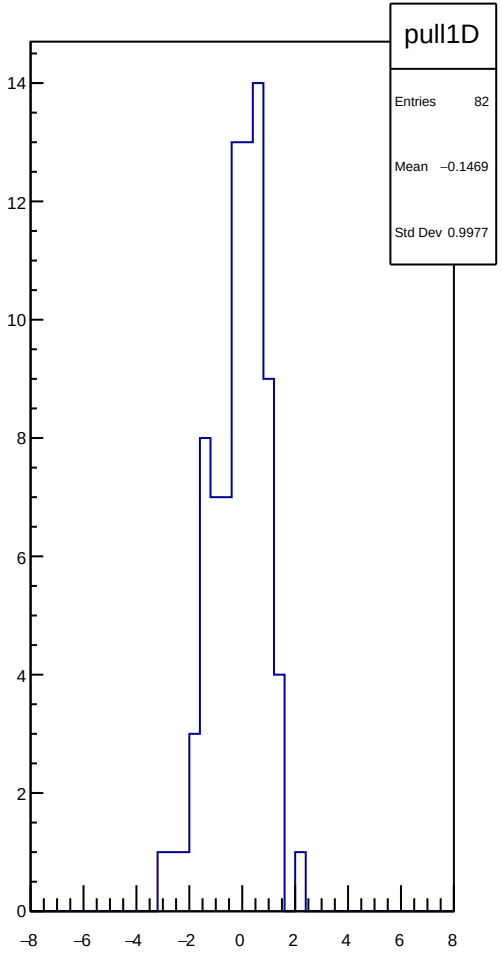

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.31 / 81
p0 −0.03766 ± 0.04735
pull
Entries 82
Mean −81.26
Std Dev 0
pull1D
Entries 82
Mean −0.01856
Std Dev 1.043

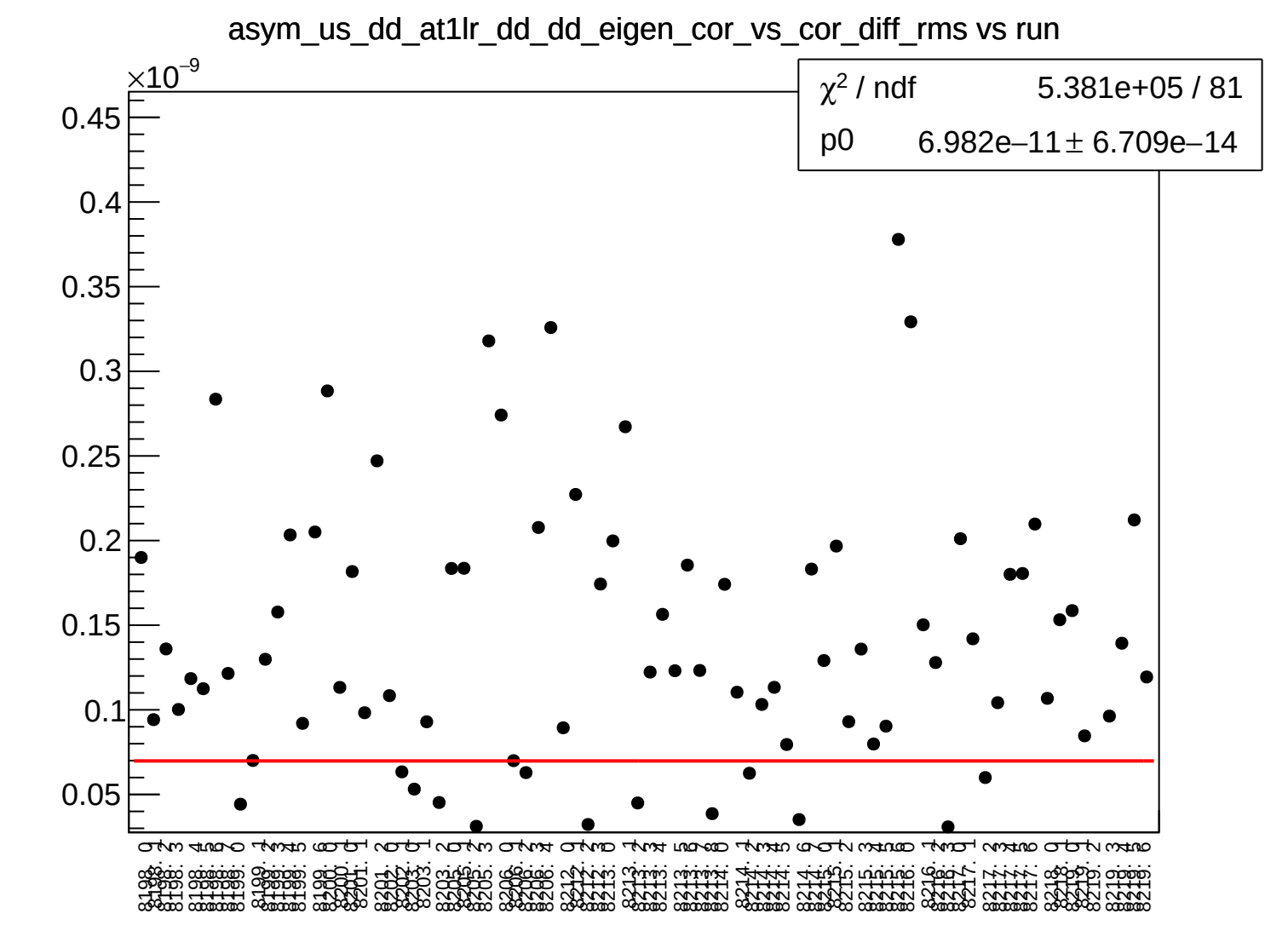

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.42e+05 / 81
p0 39.32 ± 0.03348
140
120
100
80
60
40
20

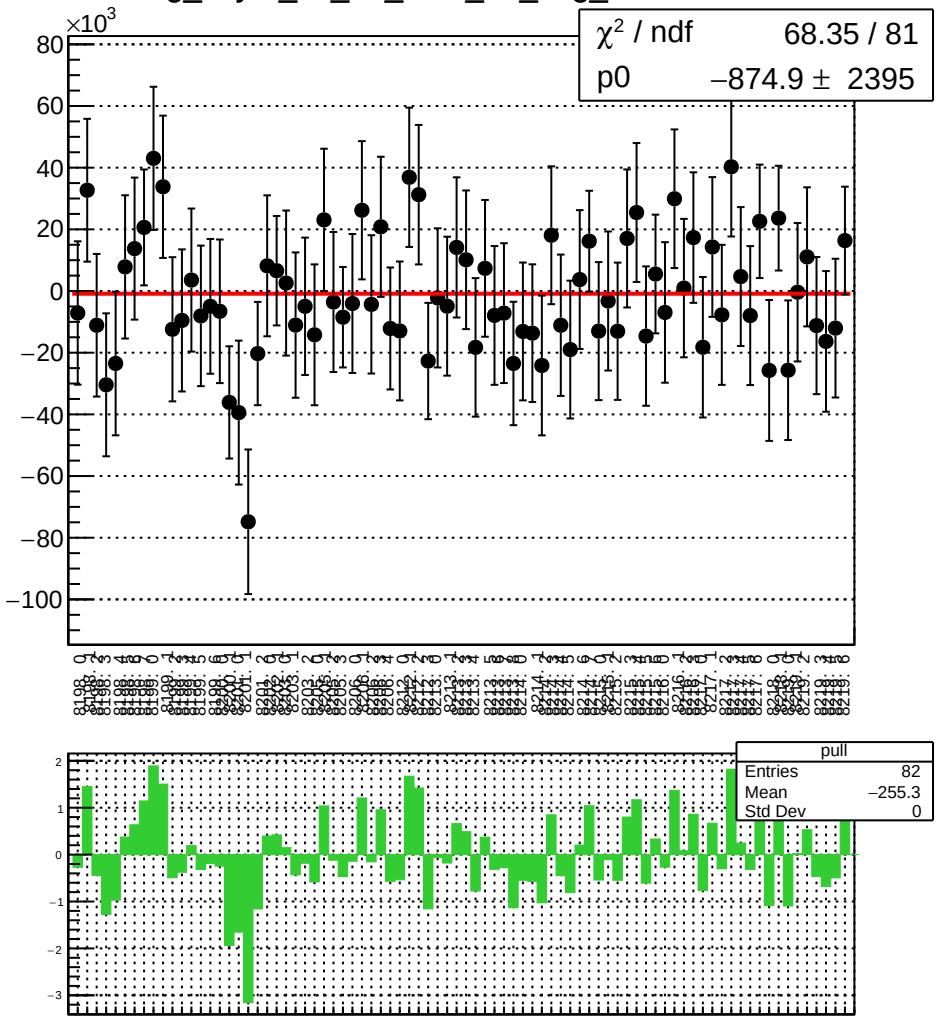

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.31 / 81
p0 −0.03766 ± 0.04735
pull
Entries 82
Mean −81.26
Std Dev 0
pull1D
Entries 82
Mean −0.01856
Std Dev 1.043

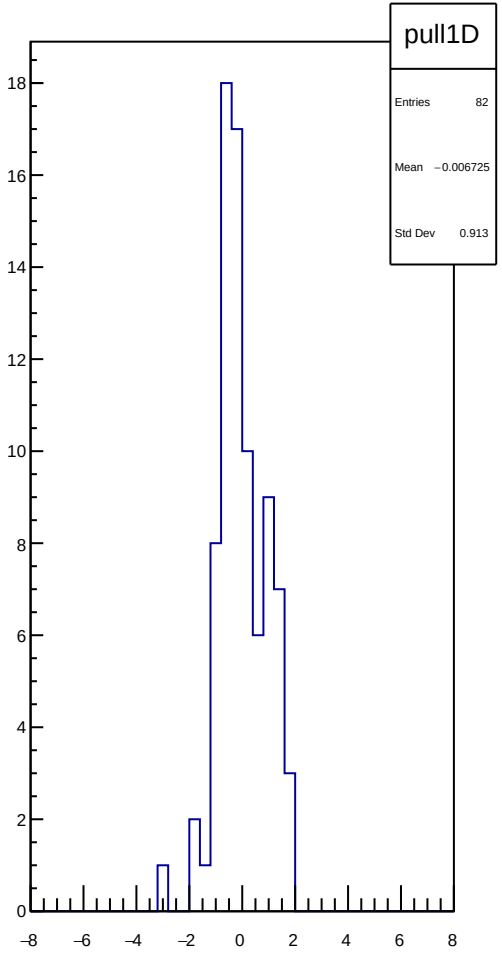

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.42e+05 / 81
p0 39.32 ± 0.03348
140
120
100
80
60
40
20

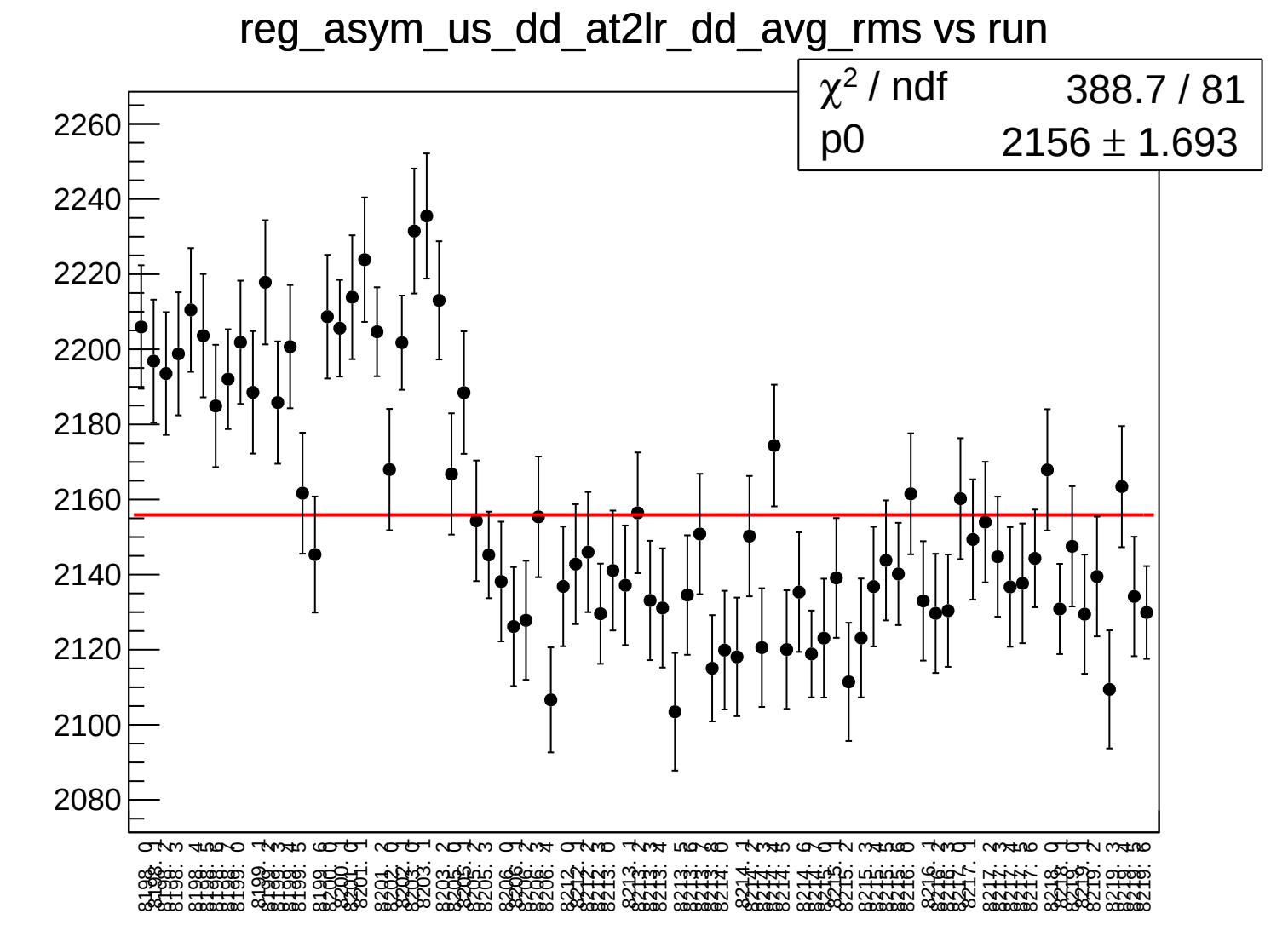

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.4 / 81
p0 −4.535e−14 ± 9.487e−14
pull
Entries 82
Mean 35.56
Std Dev 36.15

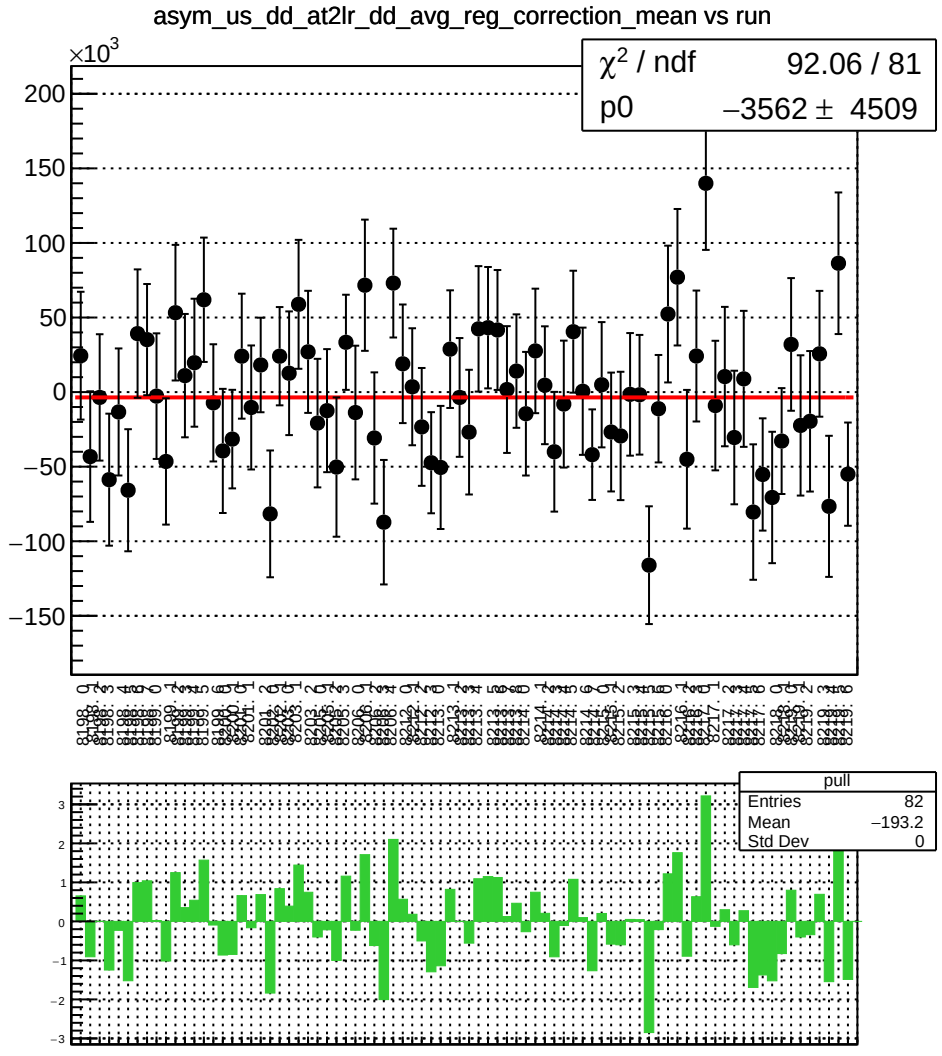

pull1D
Entries 82
Mean −0.1469
Std Dev 0.9977

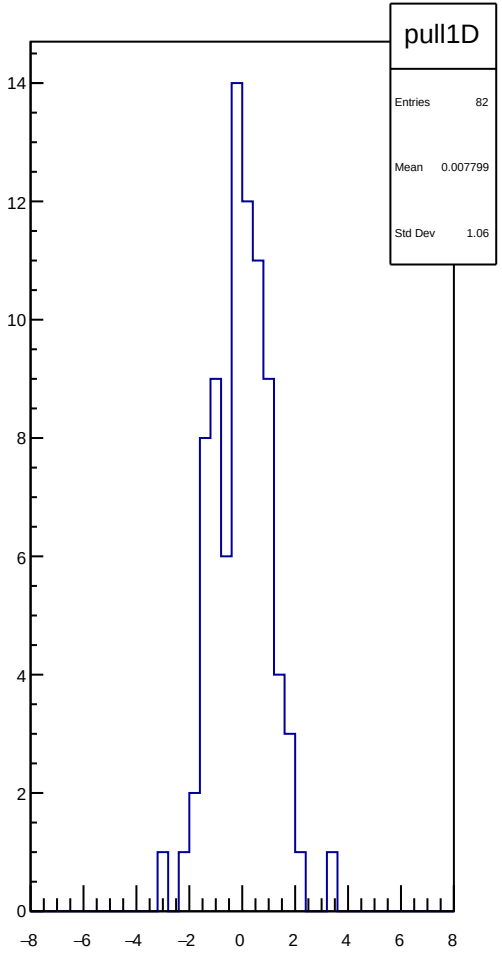

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.381e+05 / 81
p0 6.982e−11 ± 6.709e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

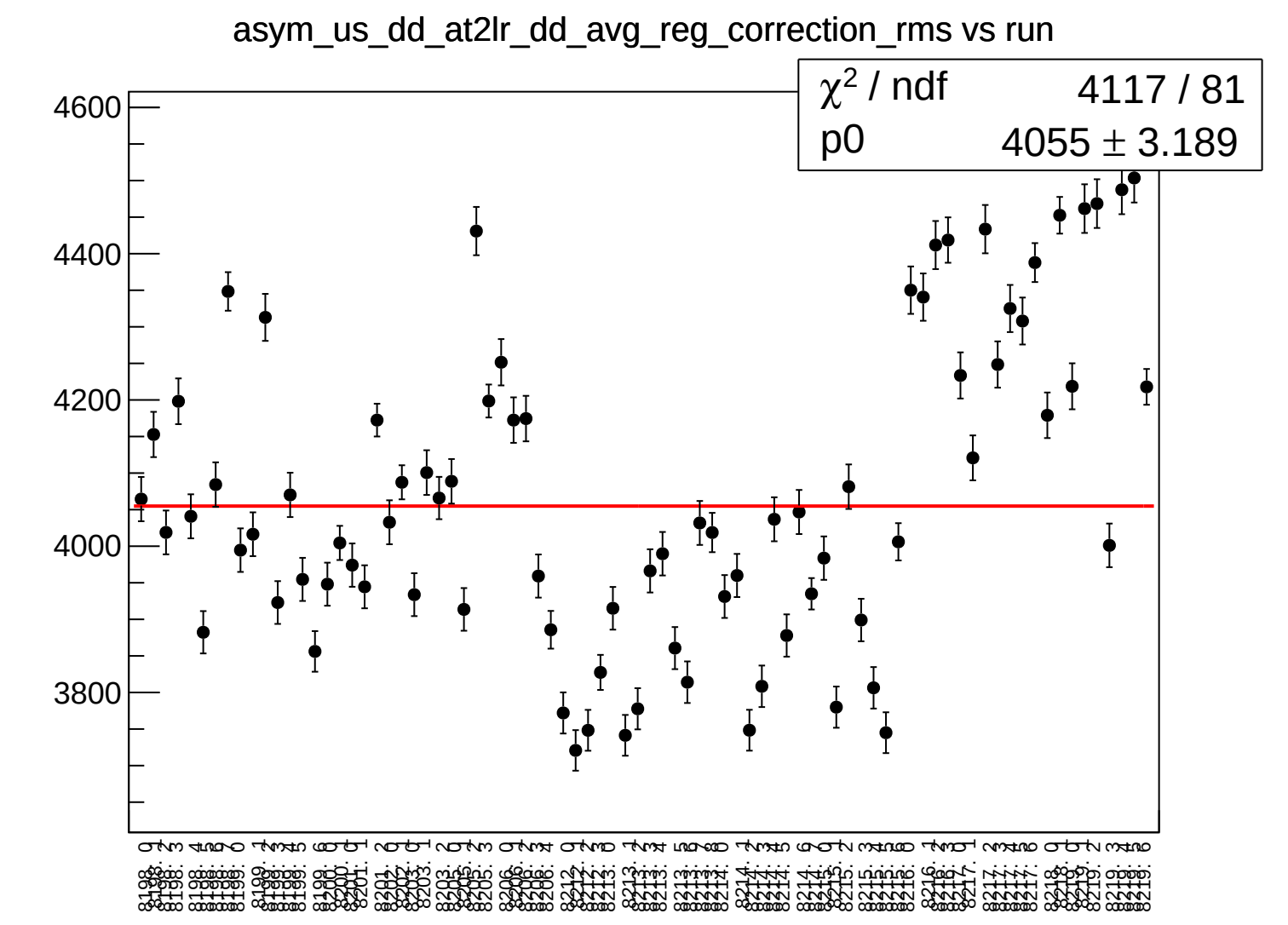

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 68.35 / 81
p0 −874.9 ± 2395
pull
Entries 82
Mean −255.3
Std Dev 0

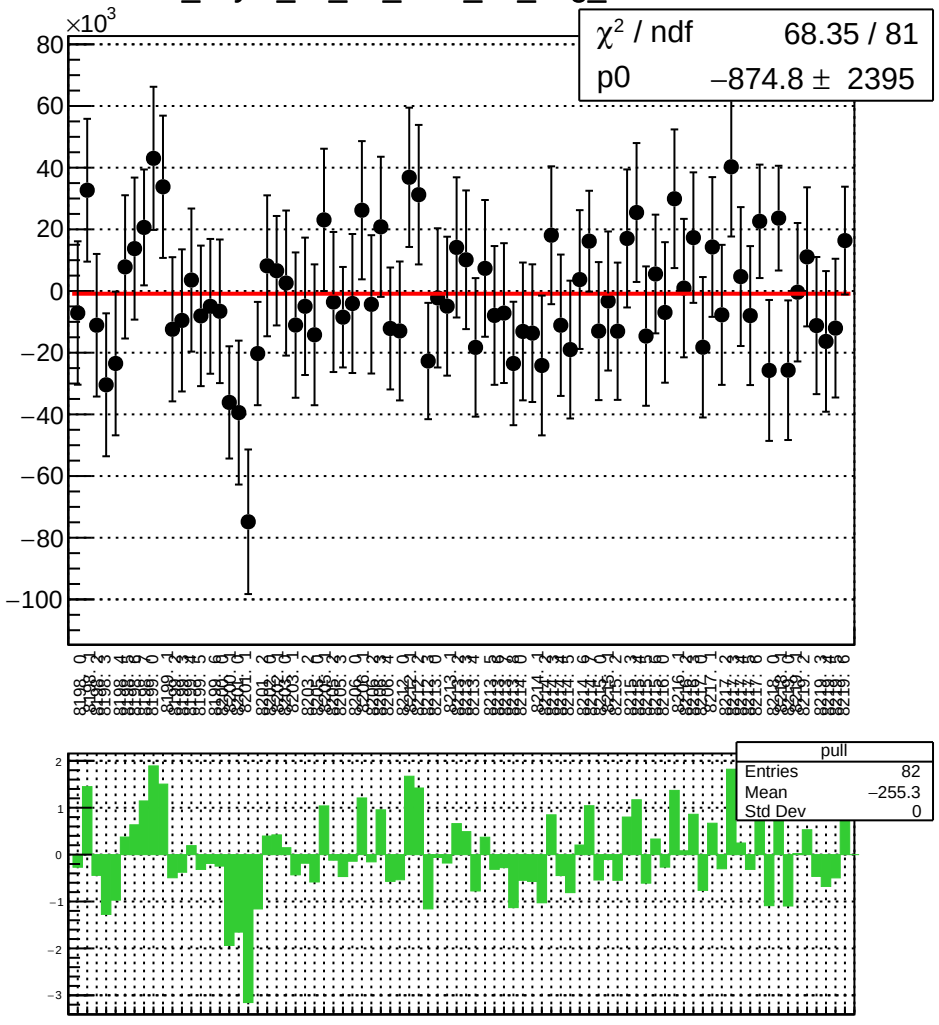

pull1D
Entries 82
Mean −0.006725
Std Dev 0.913

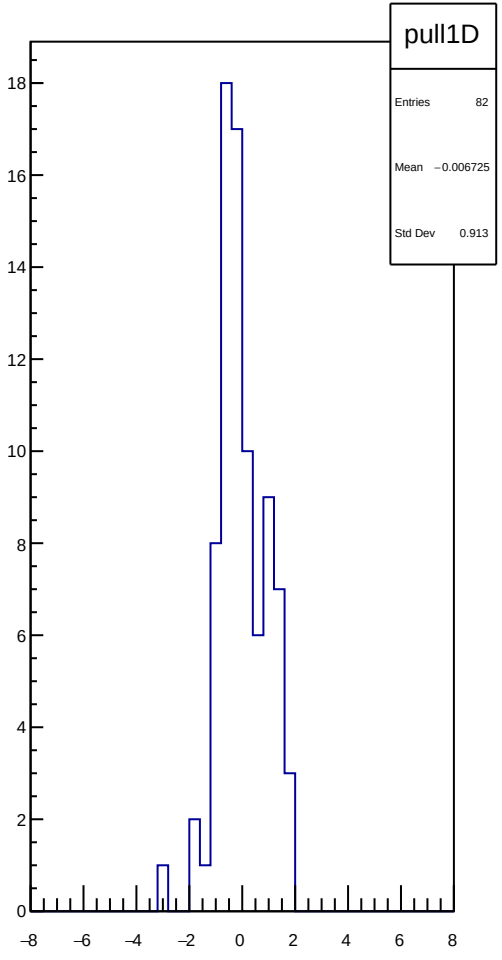

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 388.7 / 81
p0 2156 ± 1.693
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080

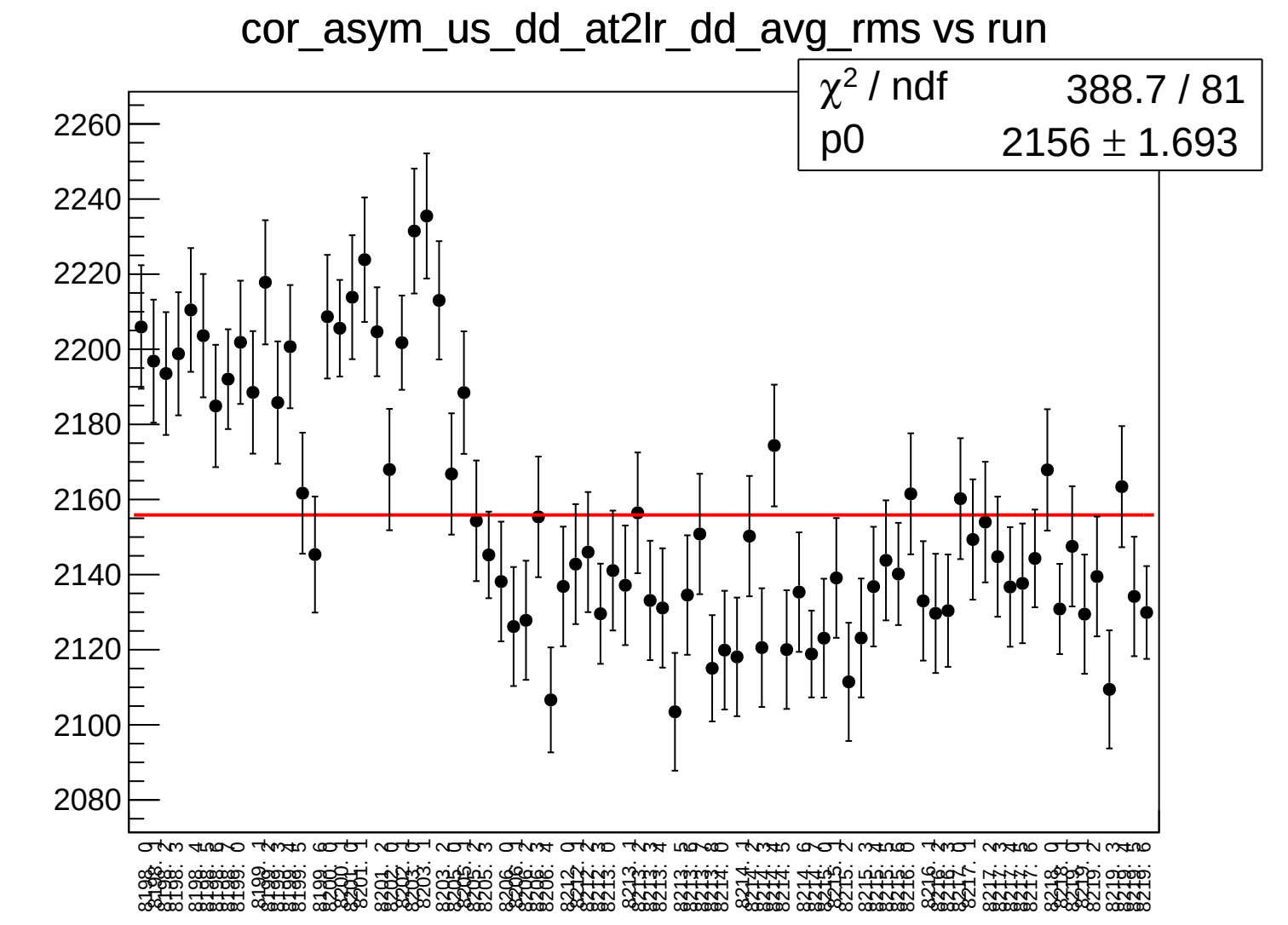

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 92.06 / 81
p0 −3562 ± 4509
pull
Entries 82
Mean −193.2
Std Dev 0

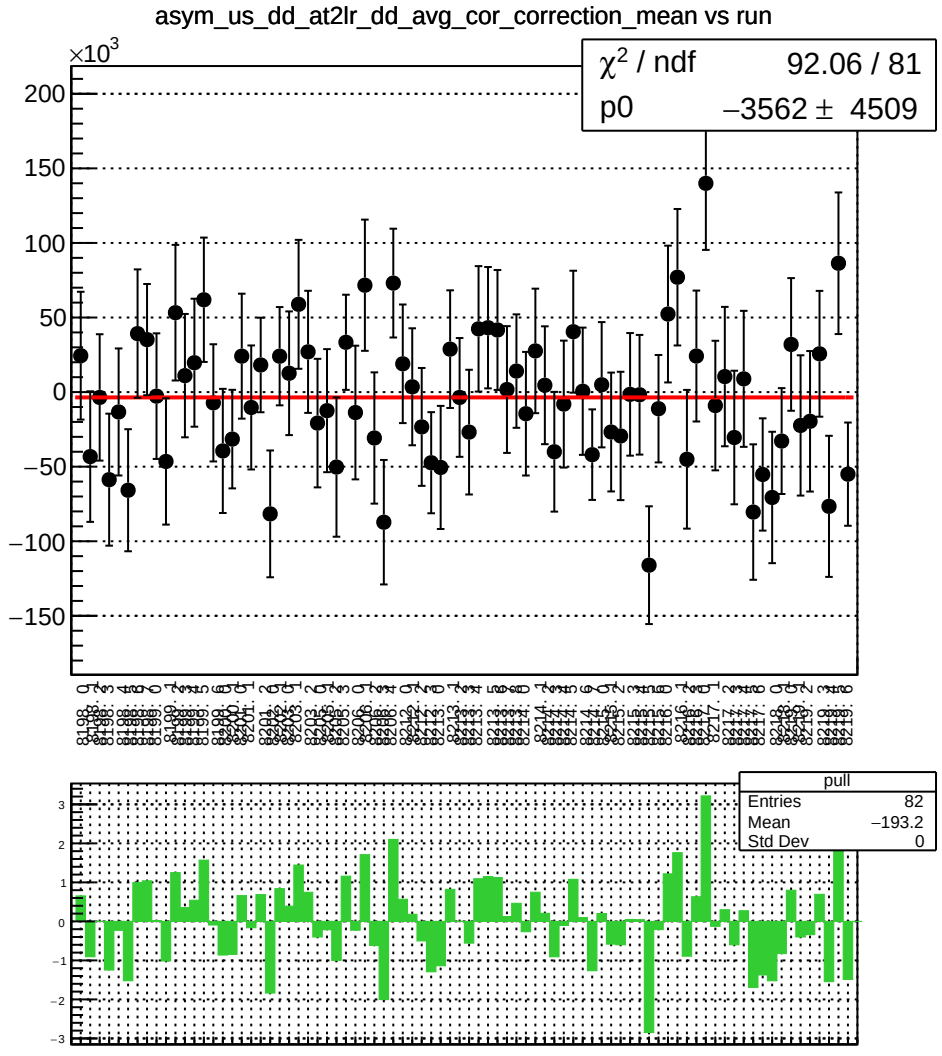

pull1D
Entries 82
Mean 0.007799
Std Dev 1.06

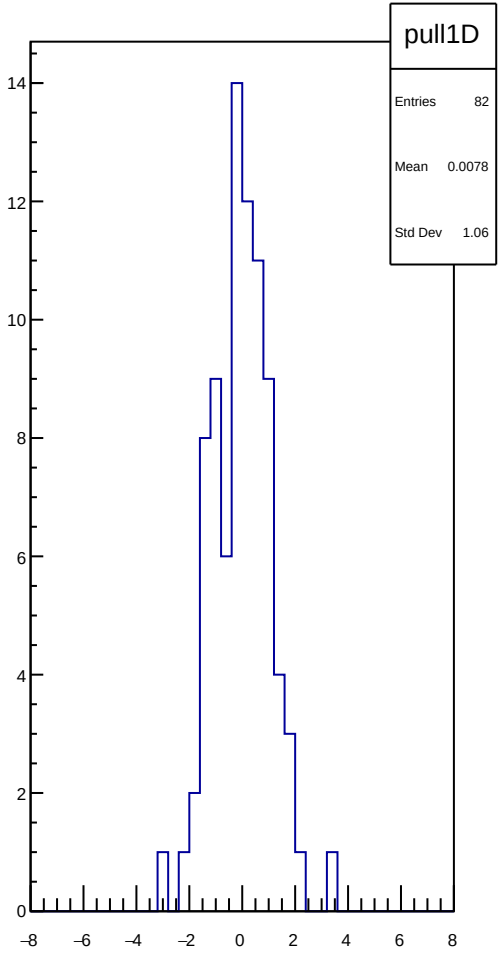

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 4117 / 81
p0 4055 ± 3.189
4600
4400
4200
4000
3800

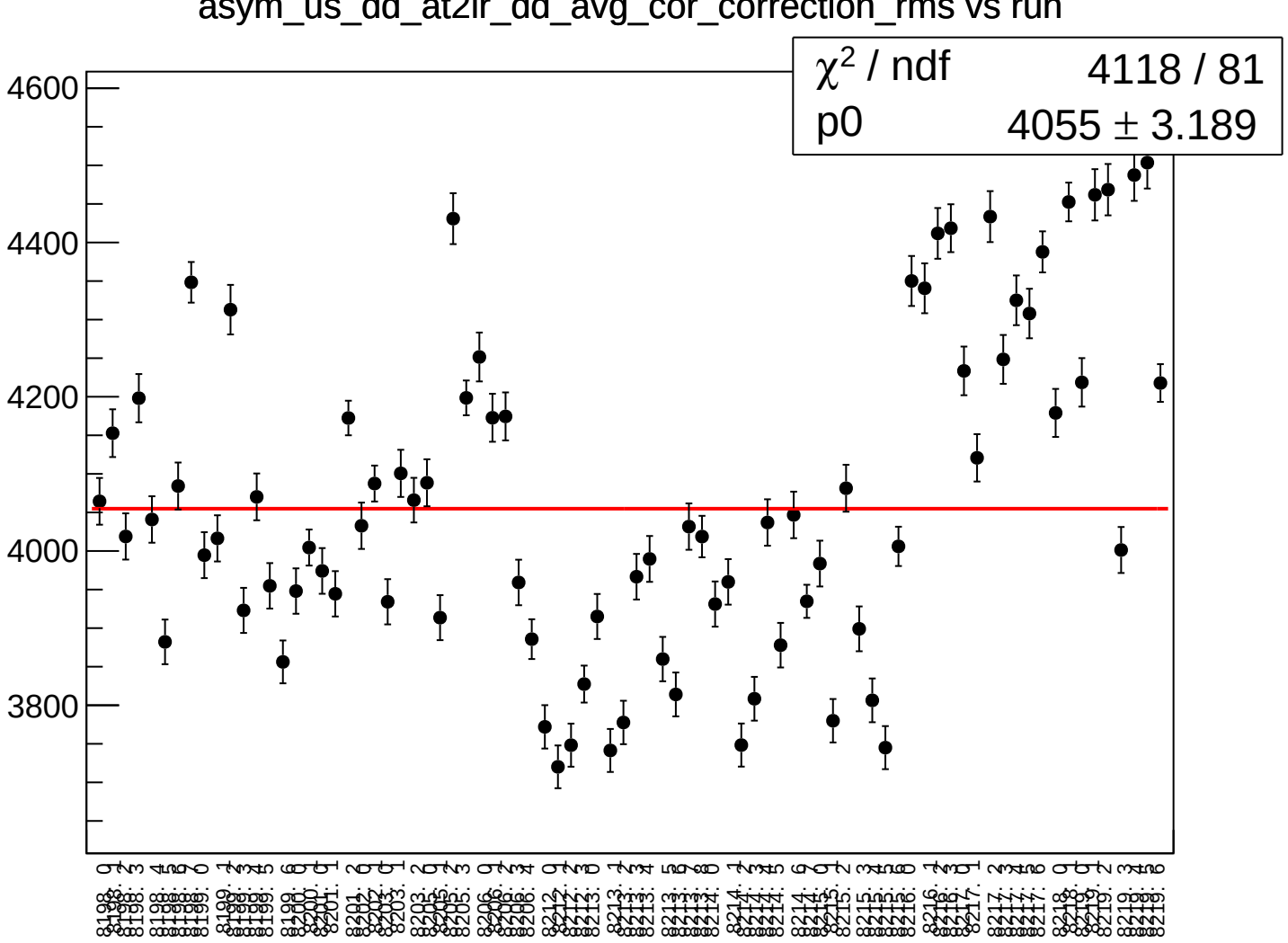

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 68.35 / 81
p0 −874.8 ± 2395
pull
Entries 82
Mean −255.3
Std Dev 0

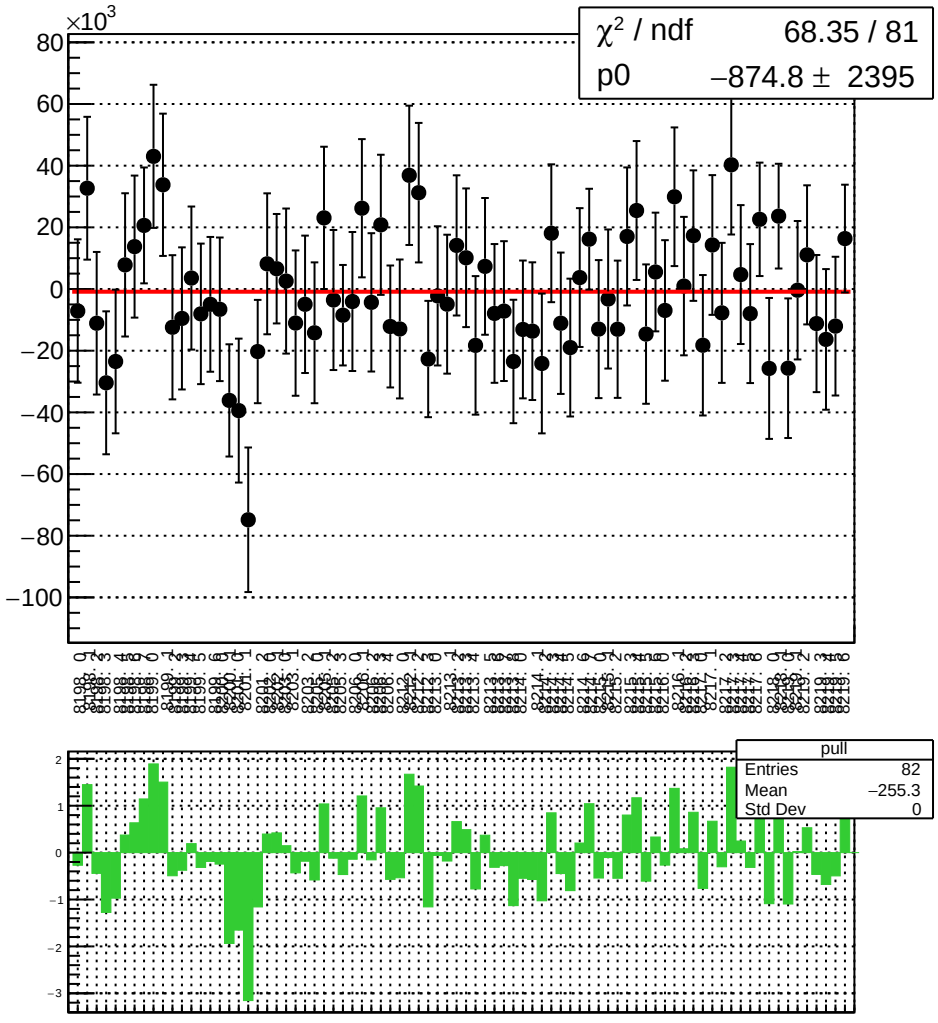

pull1D
Entries 82
Mean −0.006725
Std Dev 0.913

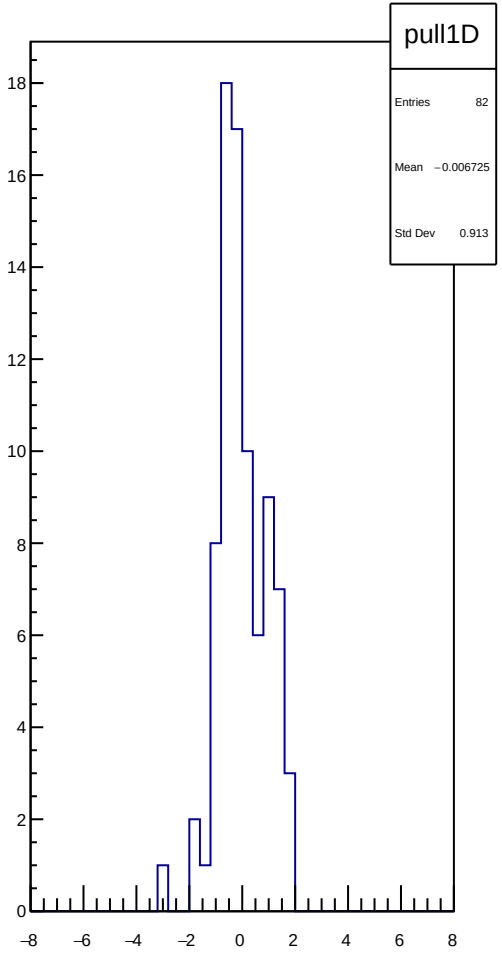

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 388.7 / 81
p0 2156 ± 1.693
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080

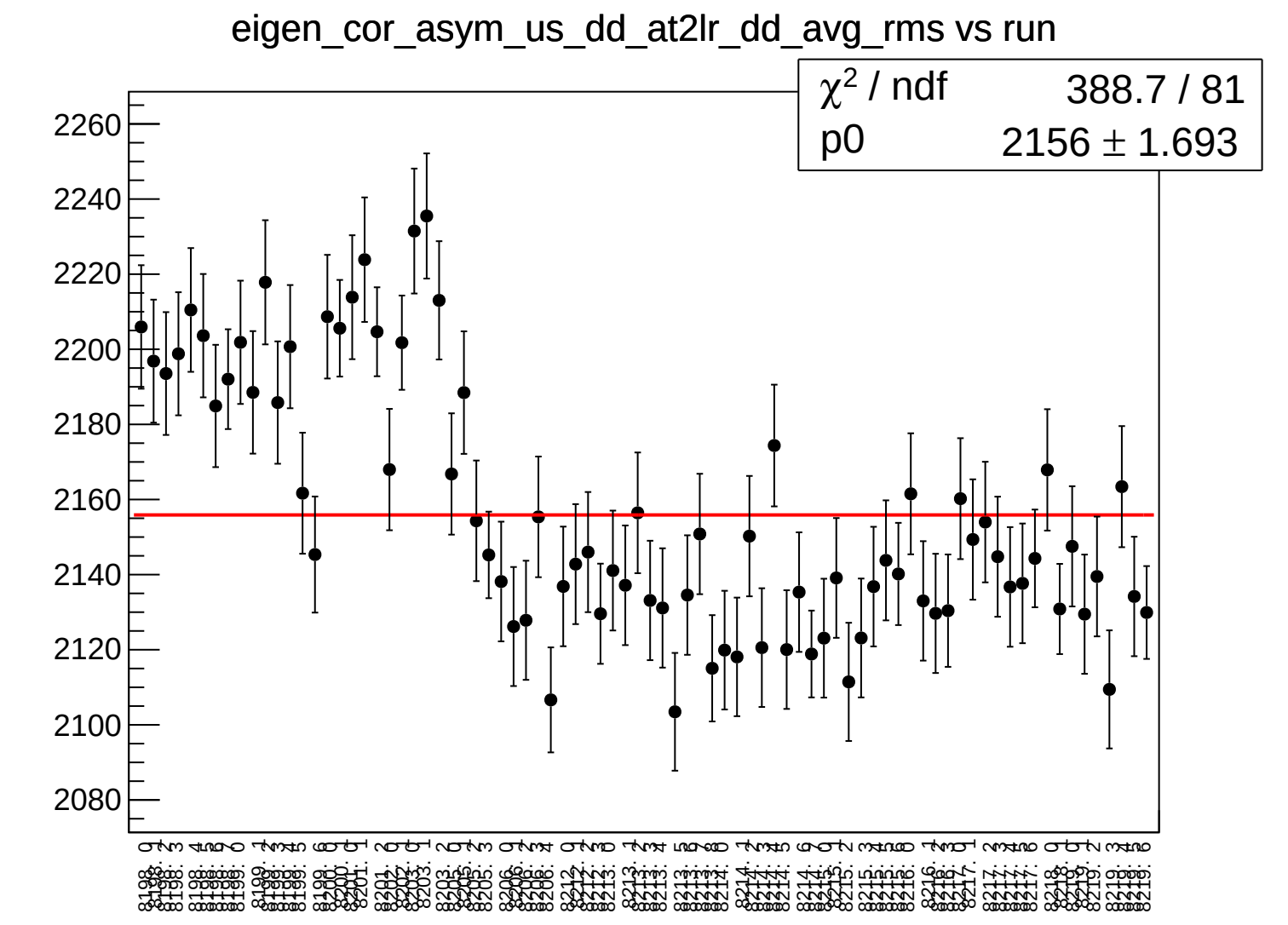

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 92.06 / 81
p0 −3562 ± 4509
pull
Entries 82
Mean −193.2
Std Dev 0

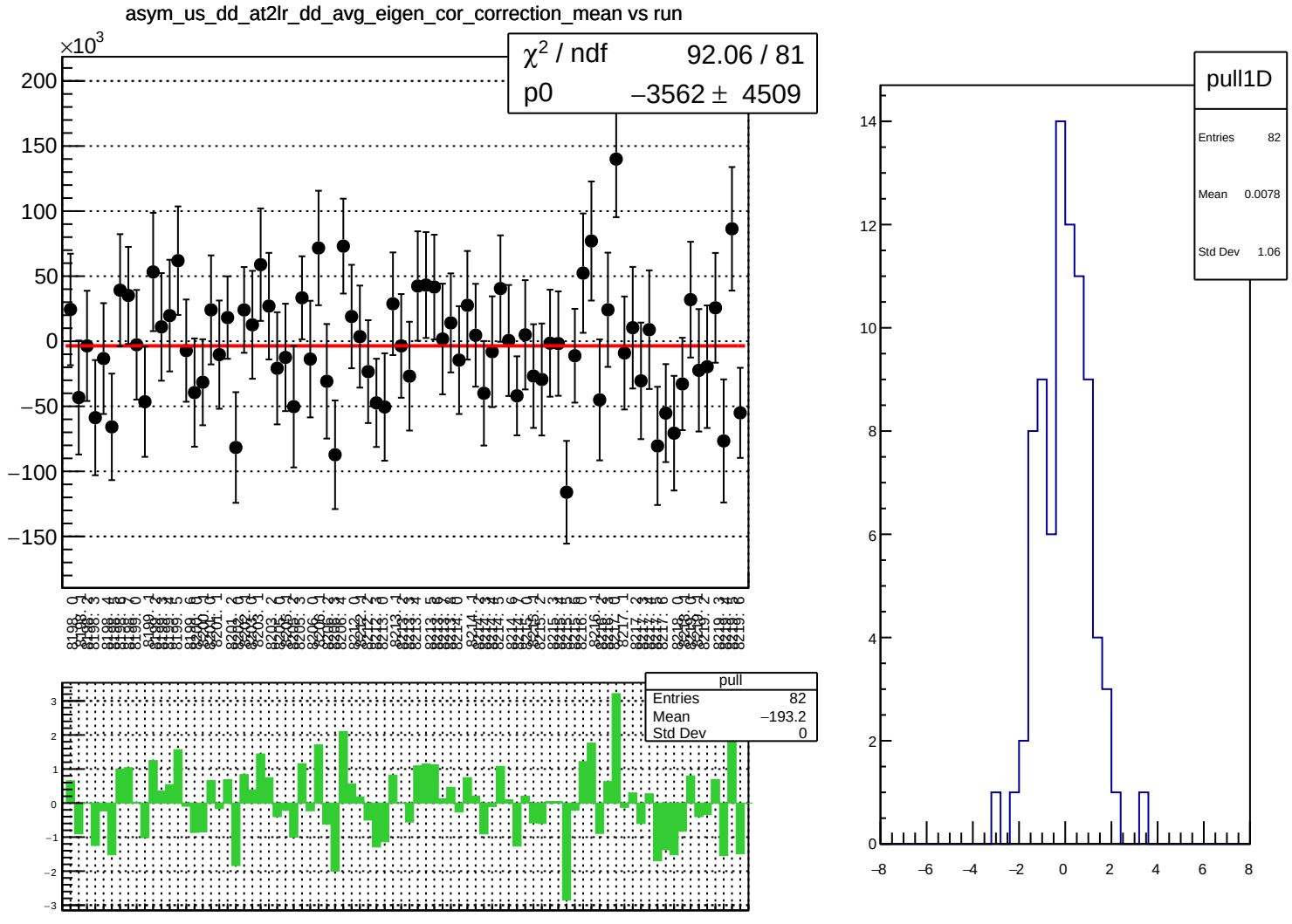

pull1D
Entries 82
Mean 0.0078
Std Dev 1.06

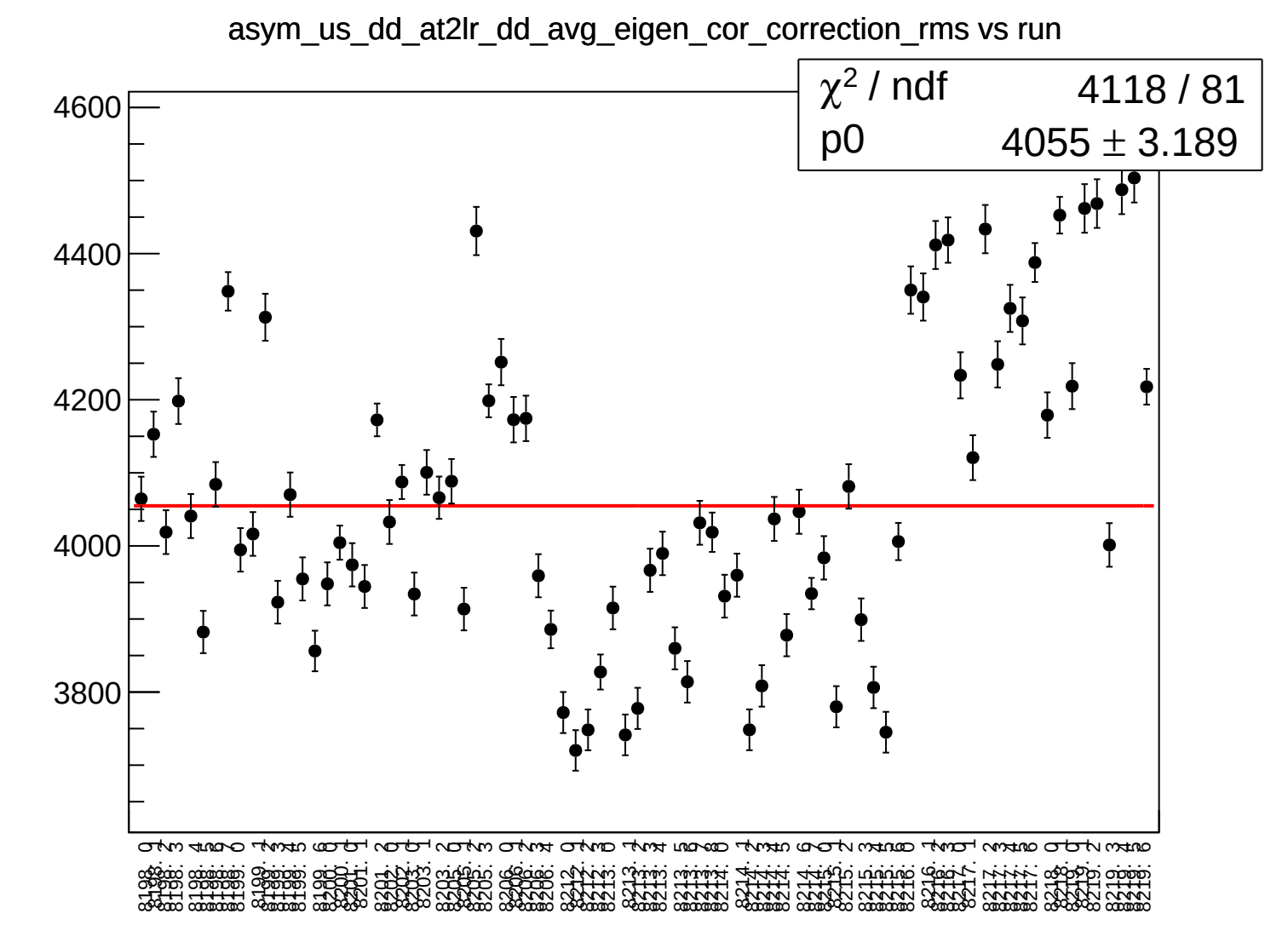

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 4118 / 81
p0 4055 ± 3.189
4600
4400
4200
4000
3800

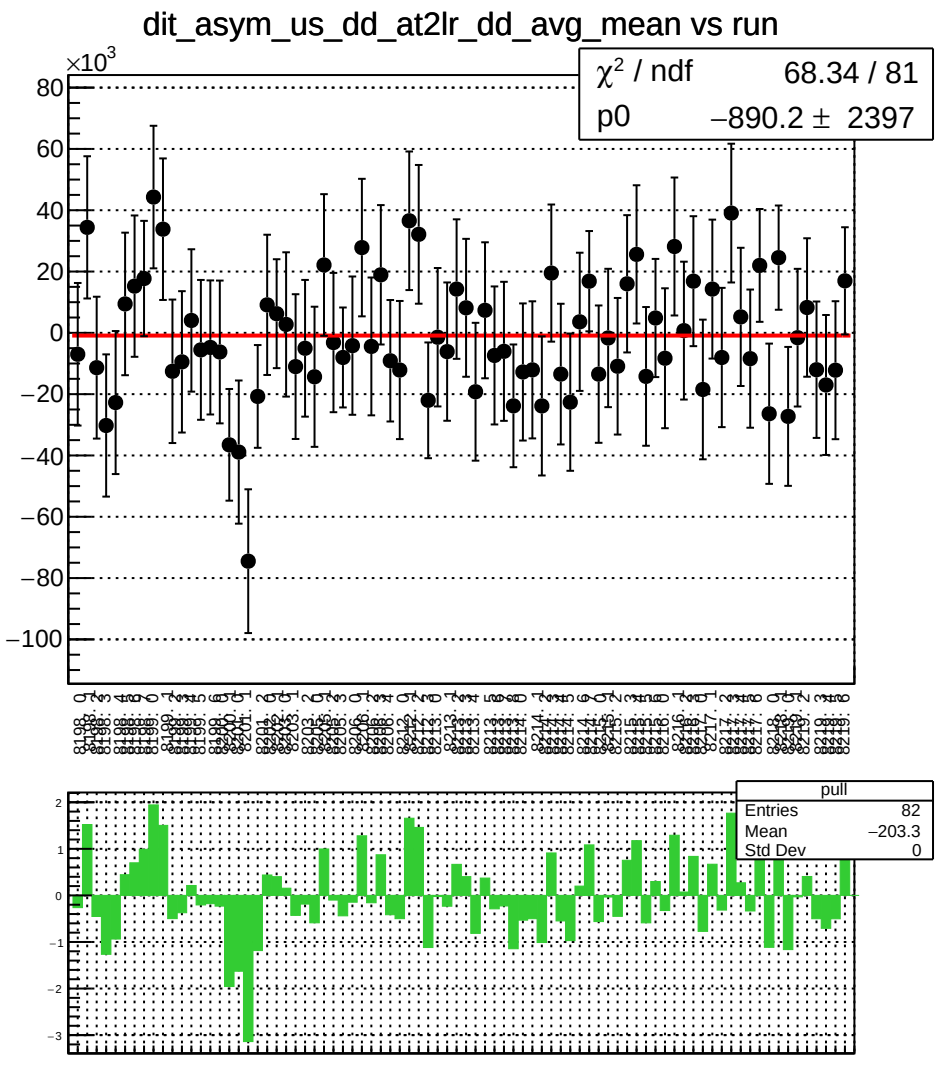

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 68.35 / 81
p0 −874.8 ± 2395
pull
Entries 82
Mean −255.3
Std Dev 0

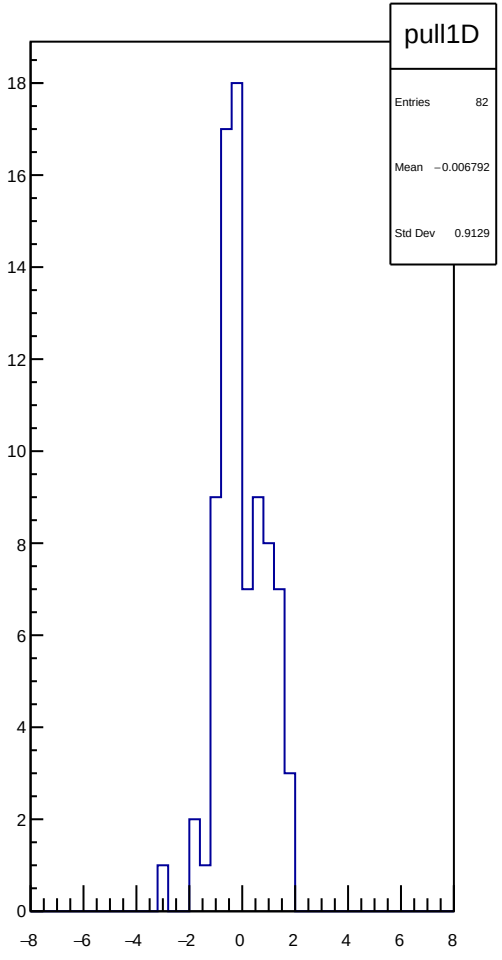

pull1D
Entries 82
Mean −0.006725
Std Dev 0.913

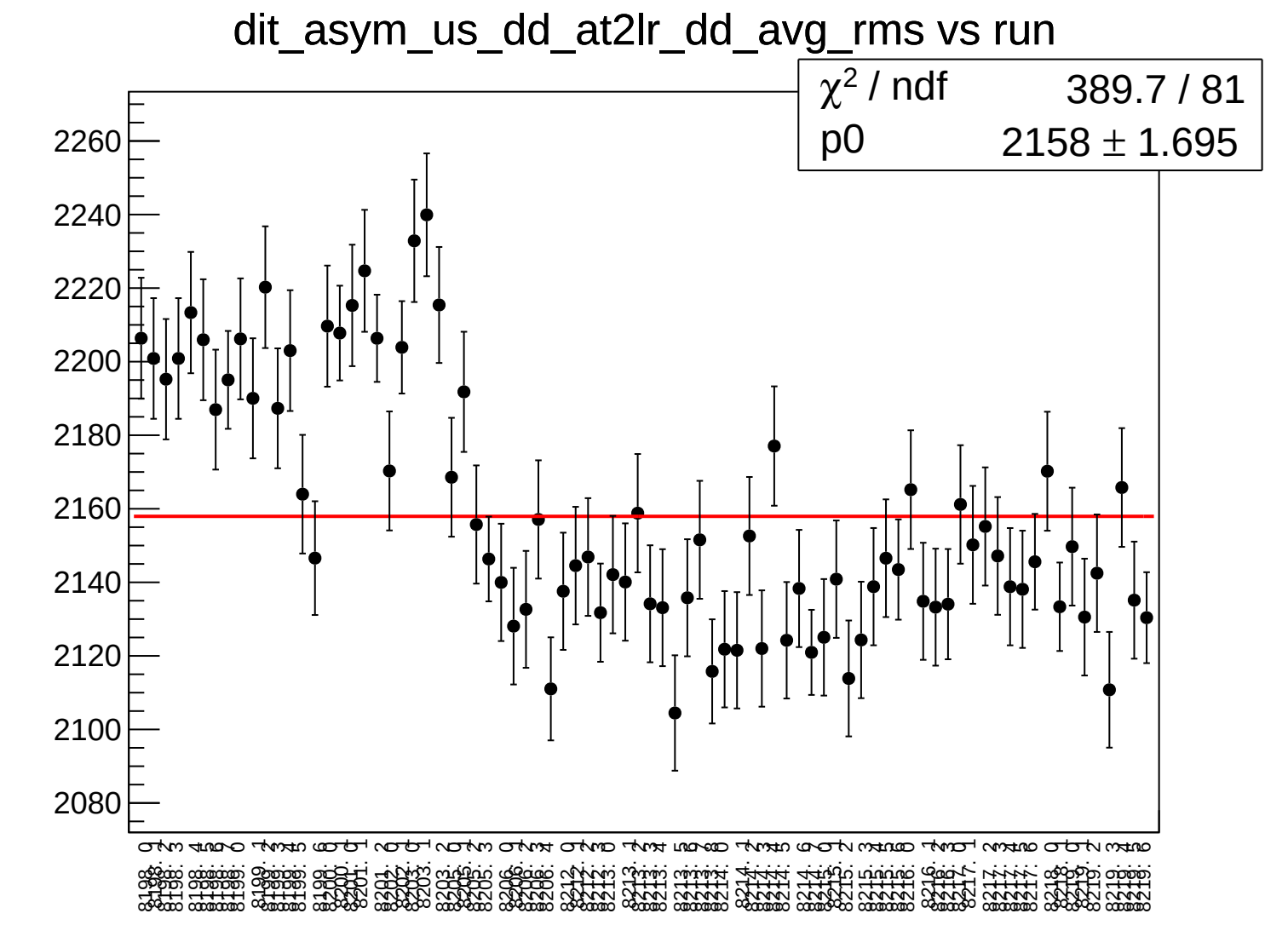

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 388.7 / 81
p0 2156 ± 1.693
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080

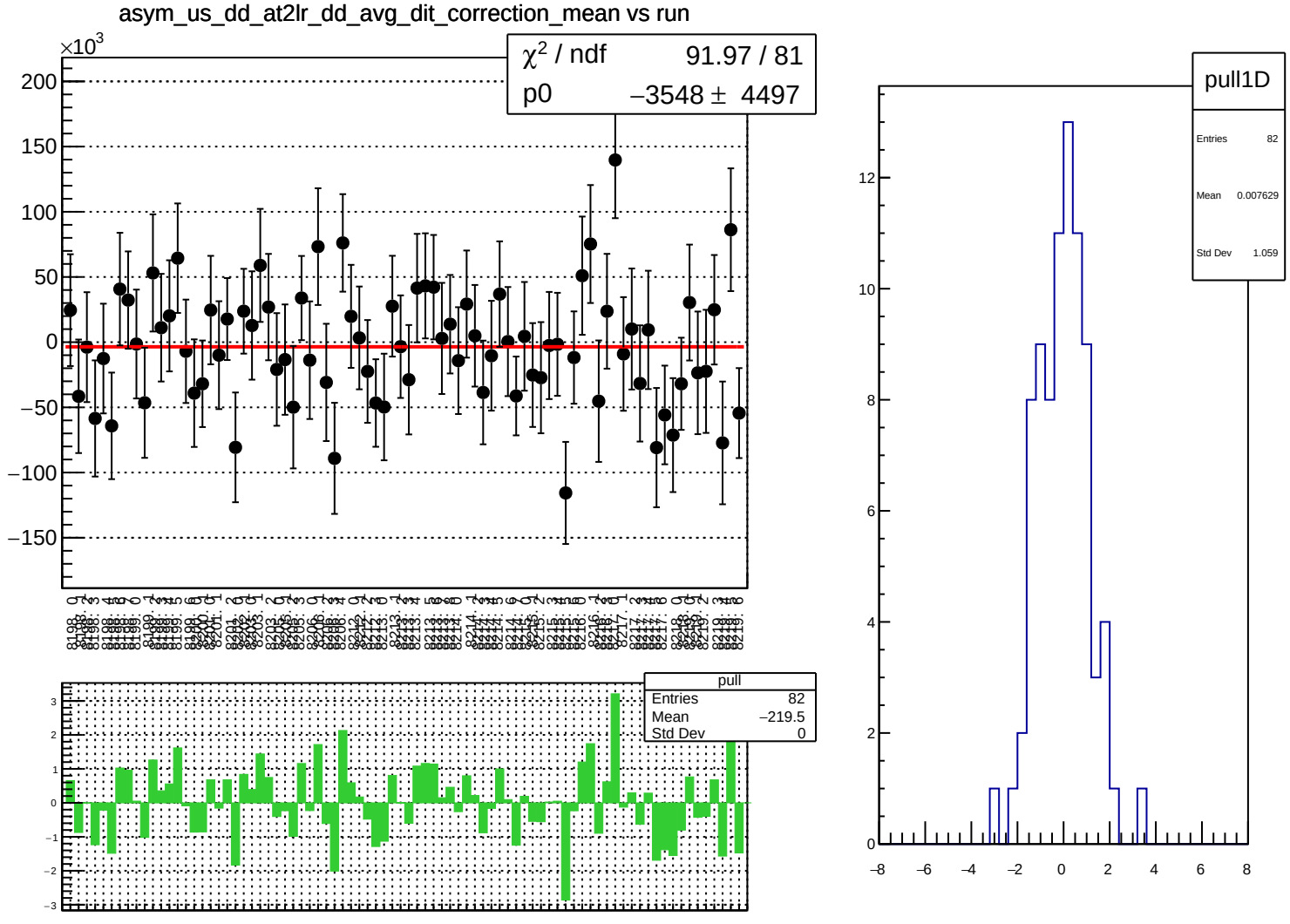

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.06 / 81
p0 −3562 ± 4509
pull
Entries 82
Mean −193.2
Std Dev 0
pull1D
Entries 82
Mean 0.0078
Std Dev 1.06

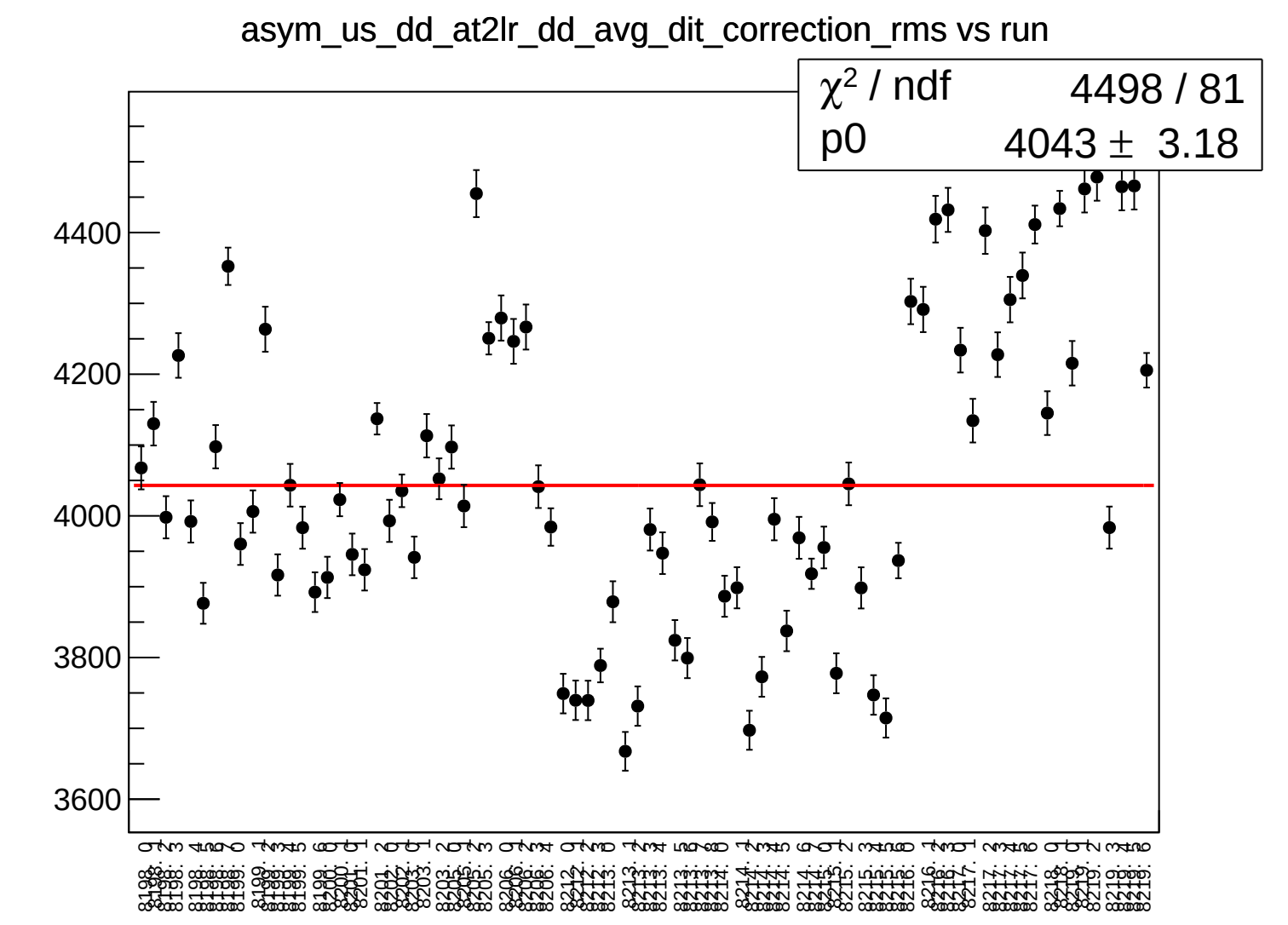

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4118 / 81
p0 4055 ± 3.189
4600
4400
4200
4000
3800

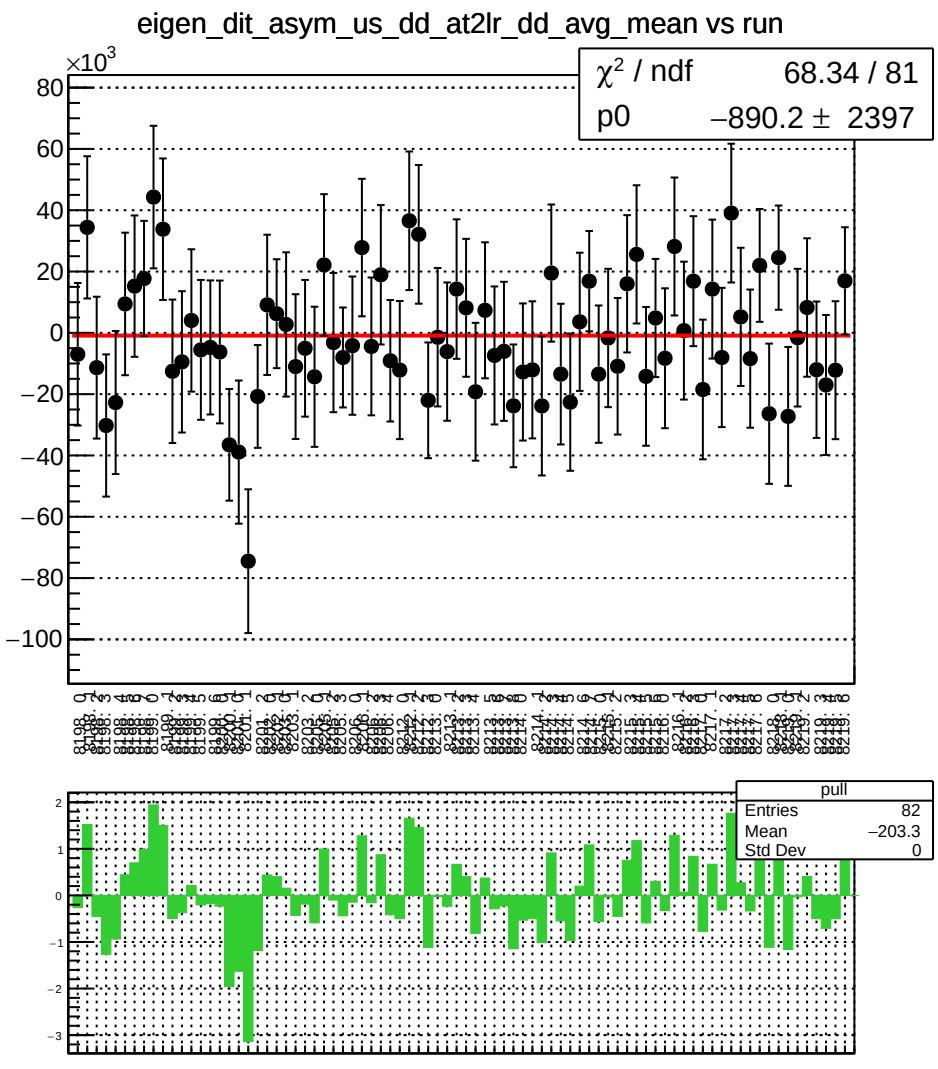

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 68.34 / 81
p0 −890.2 ± 2397
pull
Entries 82
Mean −203.3
Std Dev 0

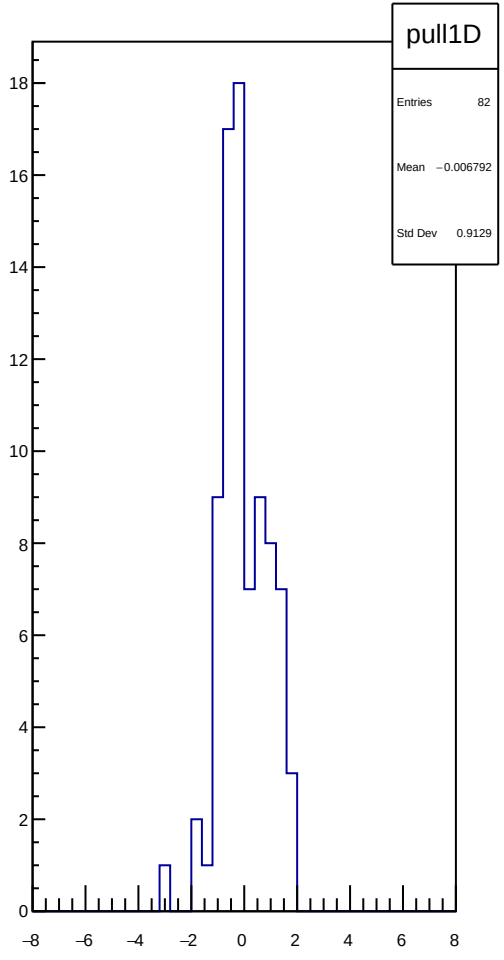

pull1D
Entries 82
Mean −0.006792
Std Dev 0.9129

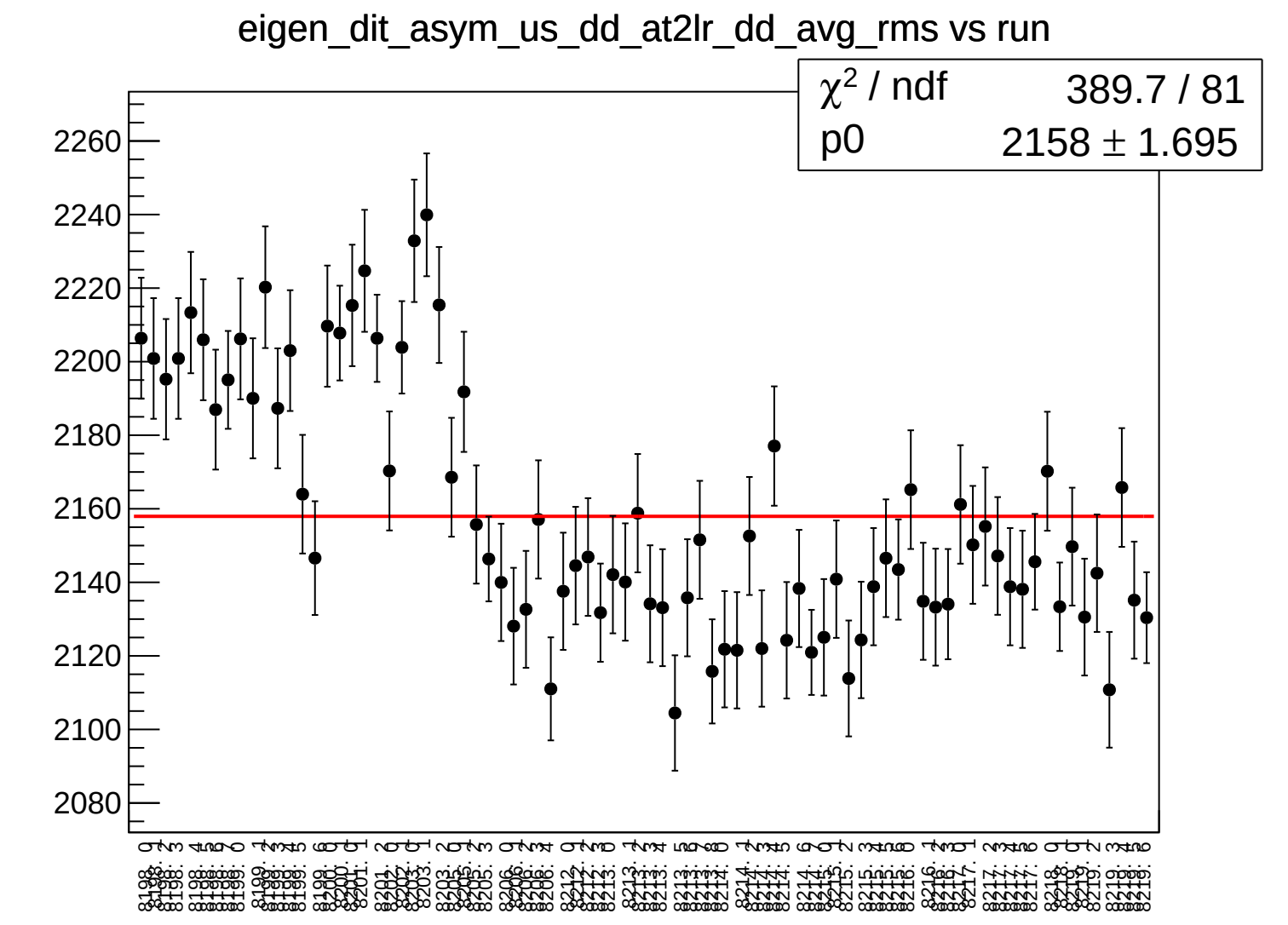

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 389.7 / 81
p0 2158 ± 1.695
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080

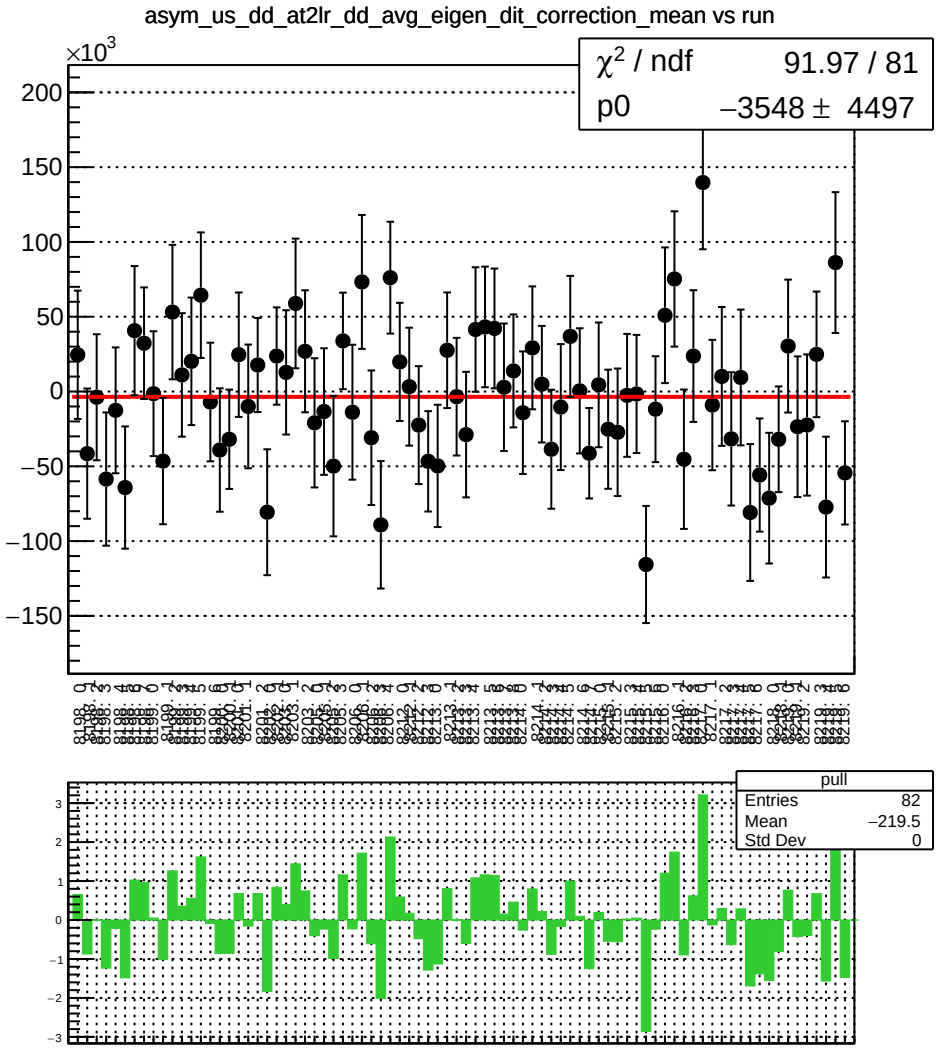

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.97 / 81
p0 −3548 ± 4497
pull
Entries 82
Mean −219.5
Std Dev 0
pull1D
Entries 82
Mean 0.007629
Std Dev 1.059

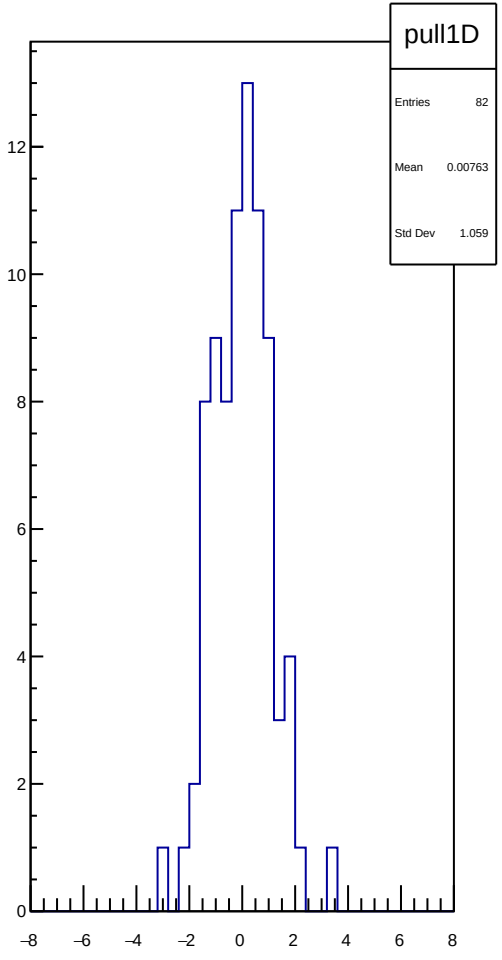

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 4498 / 81
p0 4043 ± 3.18
4400
4200
4000
3800
3600

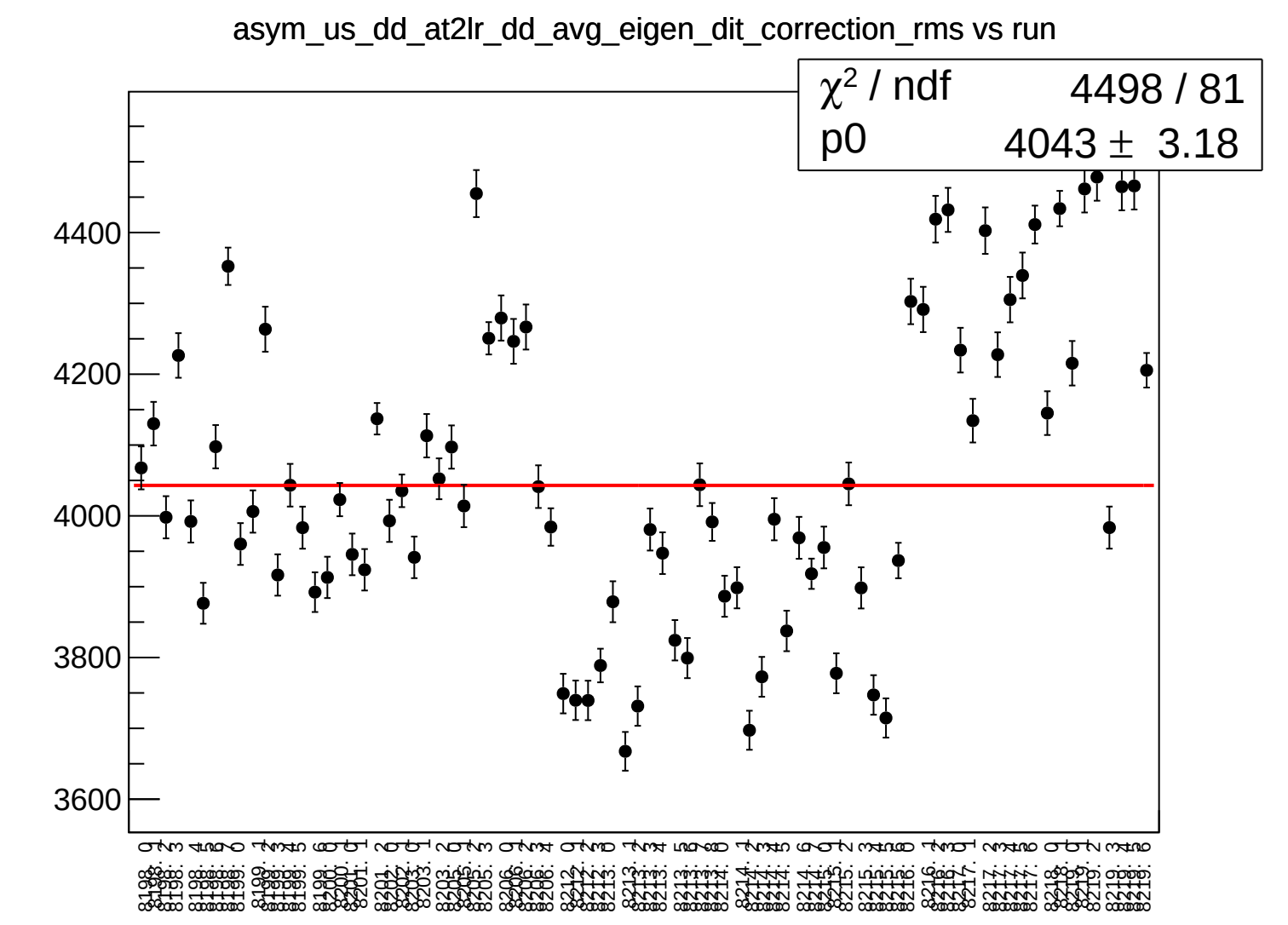

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 68.34 / 81
p0 −890.2 ± 2397
pull
Entries 82
Mean −203.3
Std Dev 0

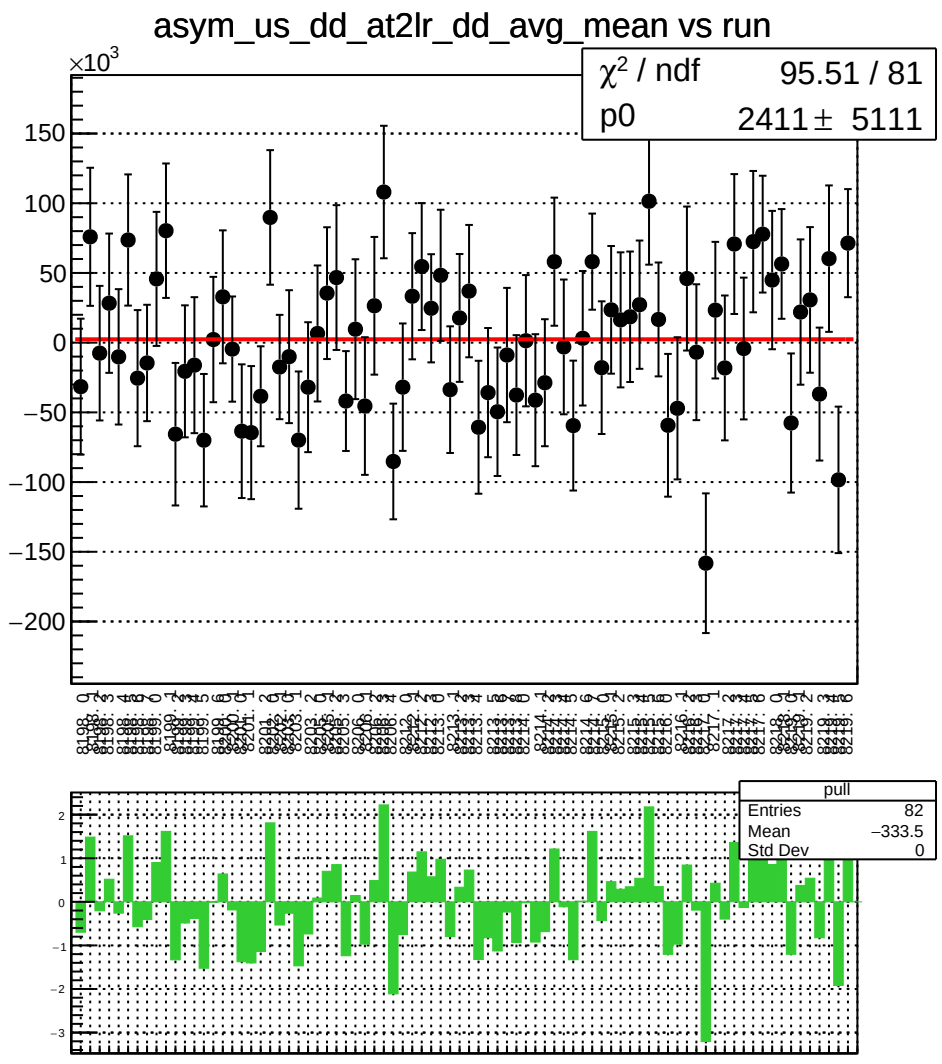

pull1D
Entries 82
Mean −0.006792
Std Dev 0.9129

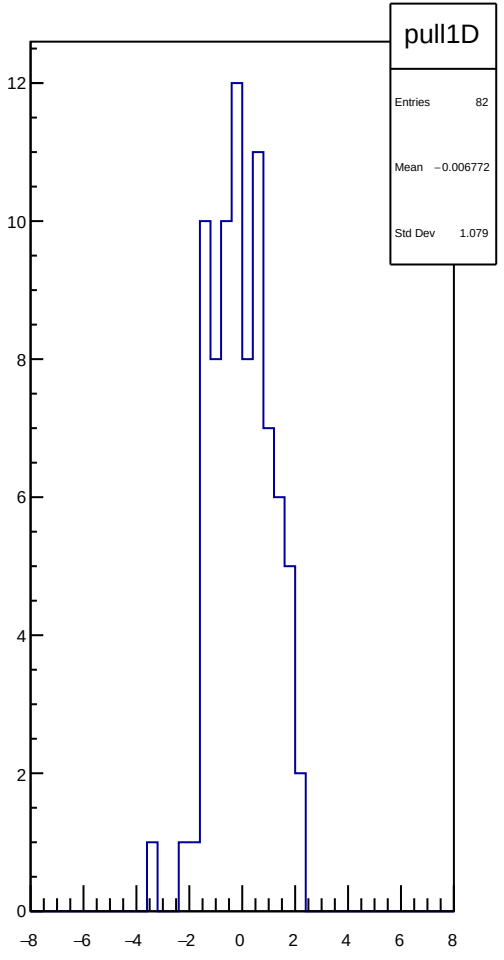

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 389.7 / 81
p0 2158 ± 1.695
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080

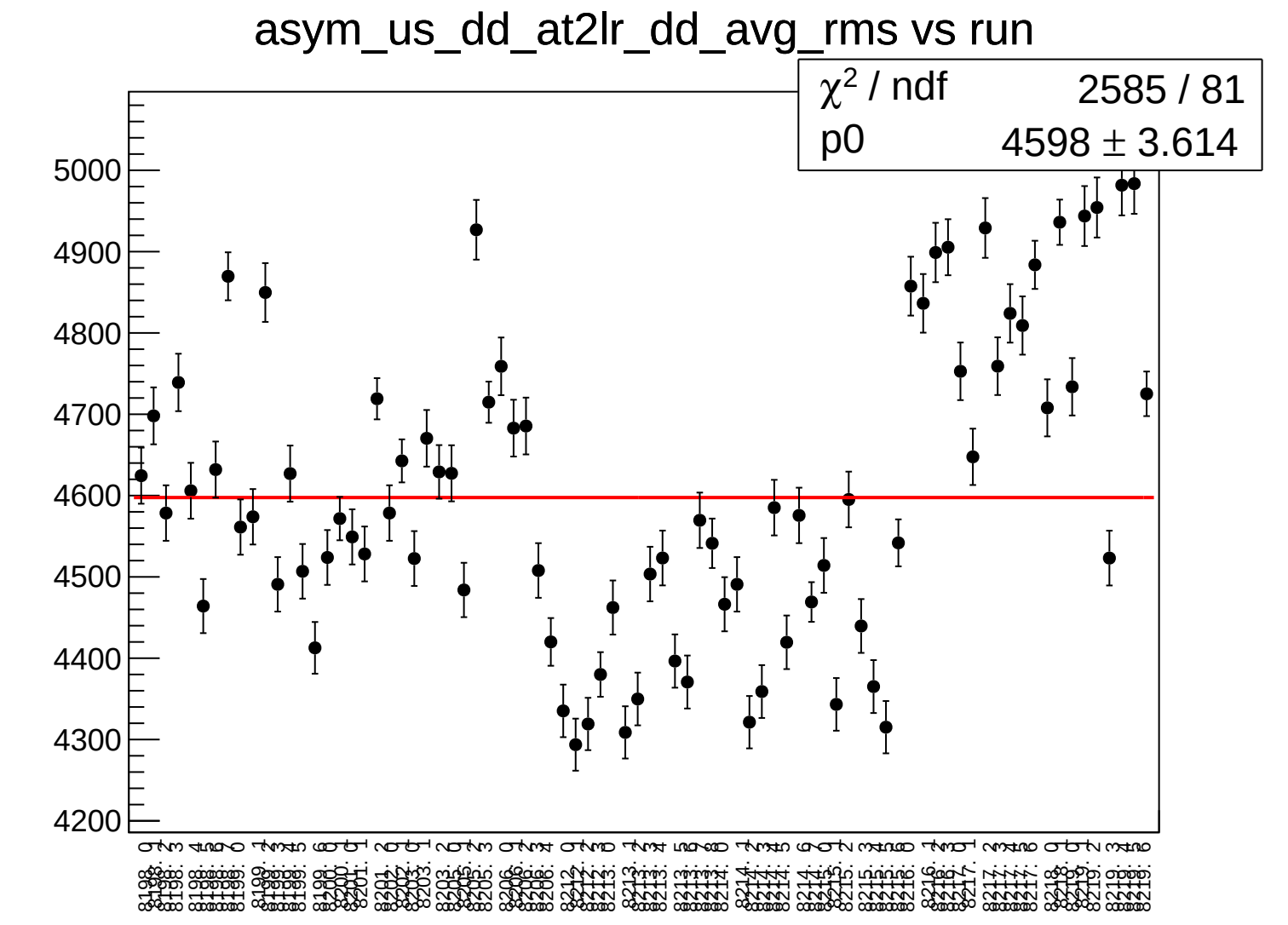

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.97 / 81
p0 −3548 ± 4497
pull
Entries 82
Mean −219.5
Std Dev 0

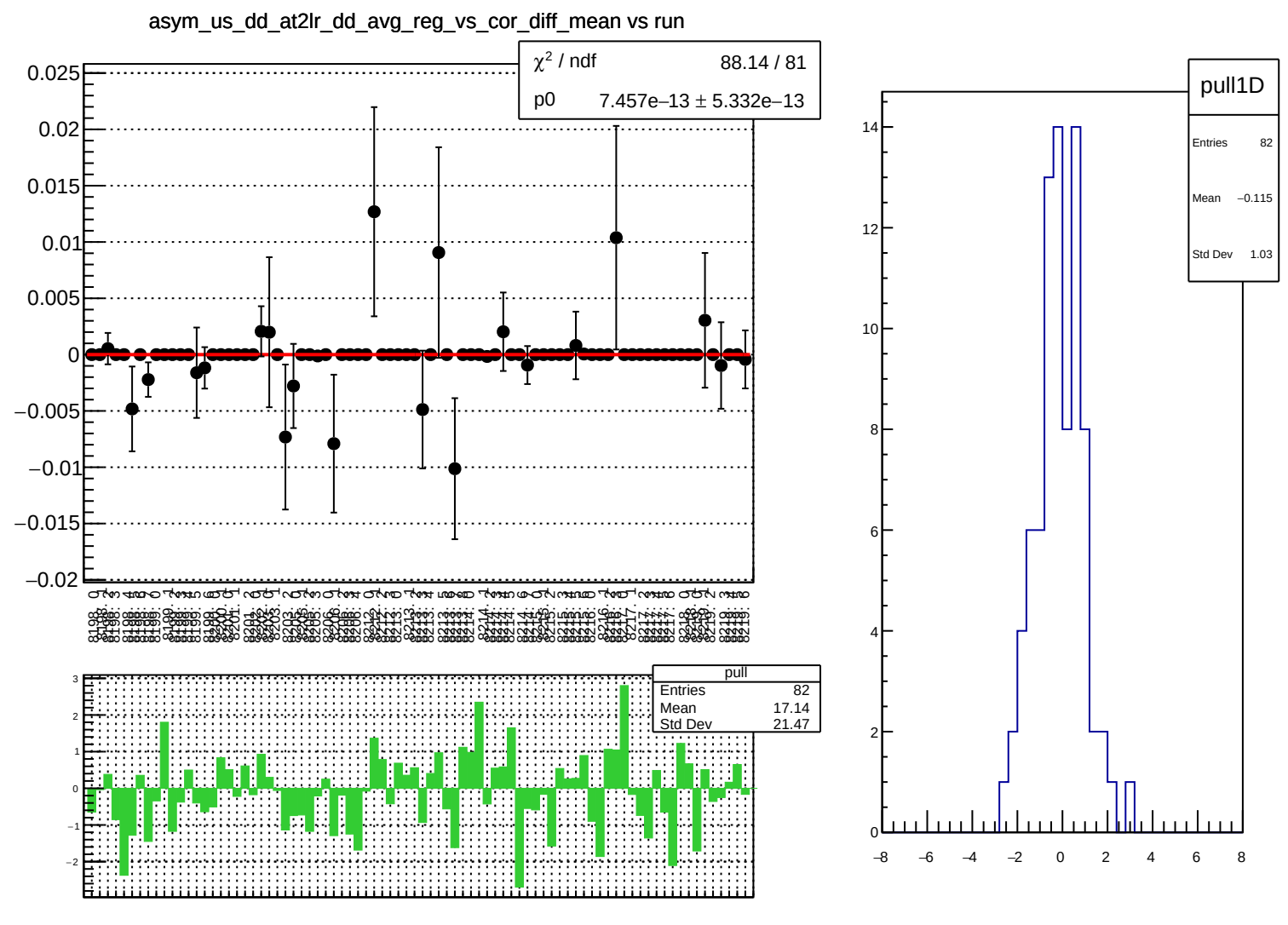

pull1D
Entries 82
Mean 0.00763
Std Dev 1.059

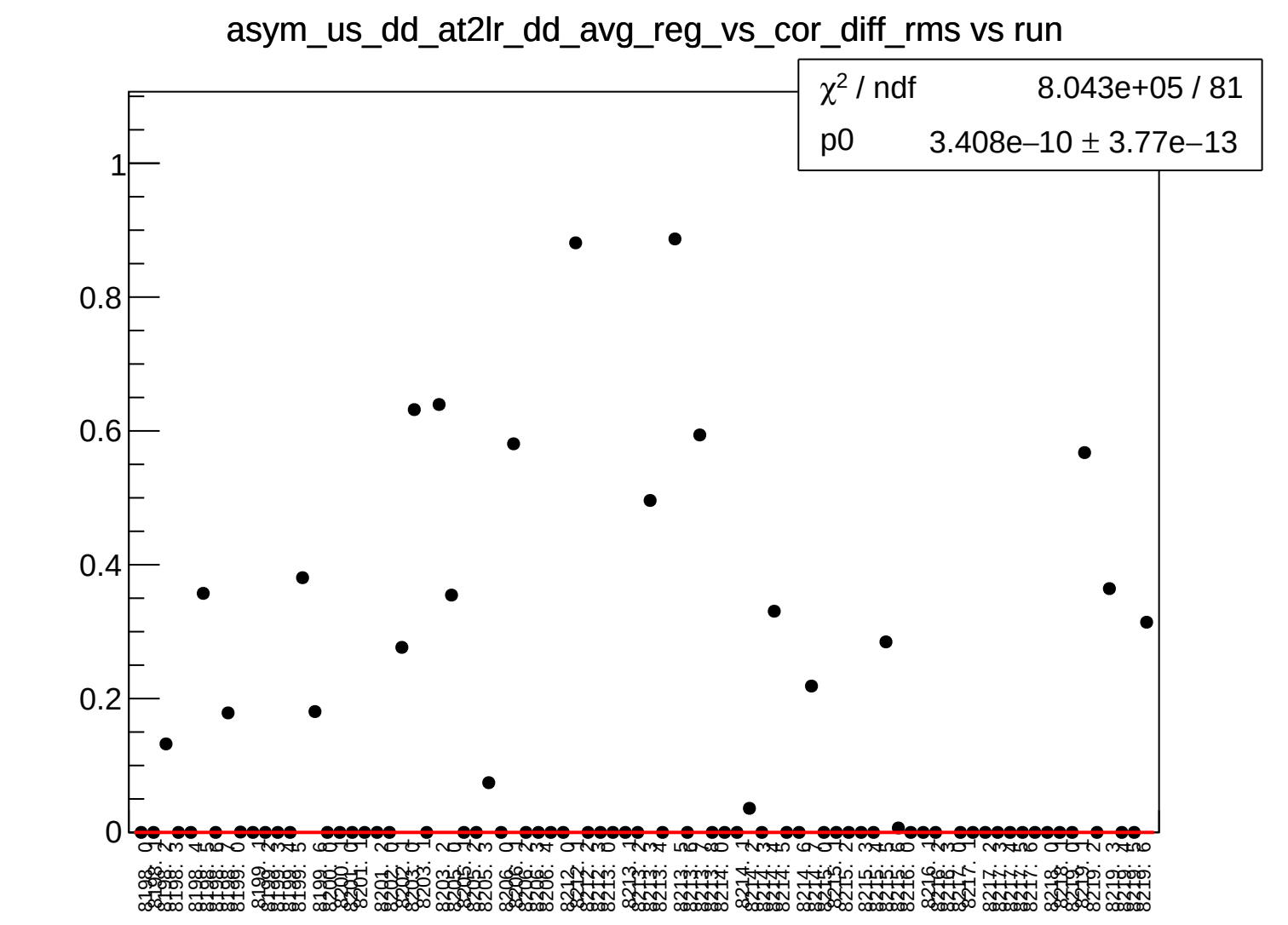

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4498 / 81
p0 4043 ± 3.18
4400
4200
4000
3800
3600

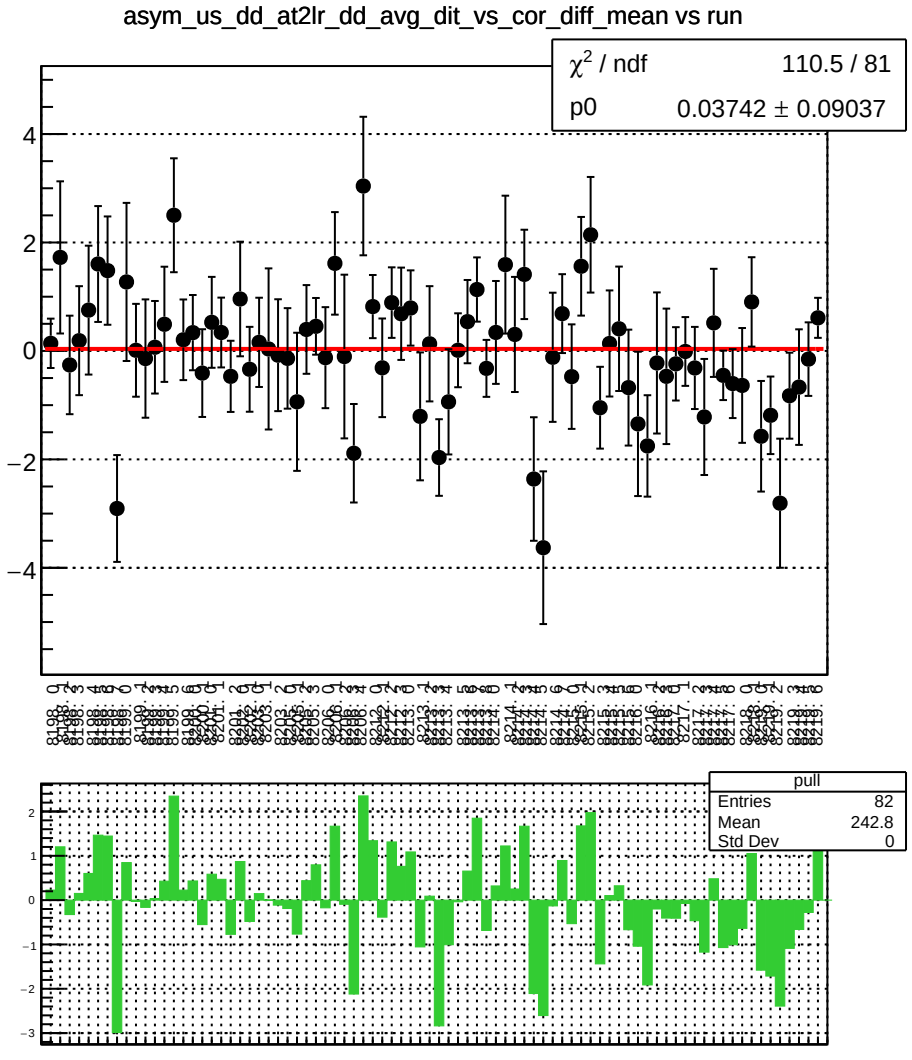

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 95.51 / 81
p0 2411 ± 5111
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −333.5
Std Dev 0
2
1
0
−1
−2
−3

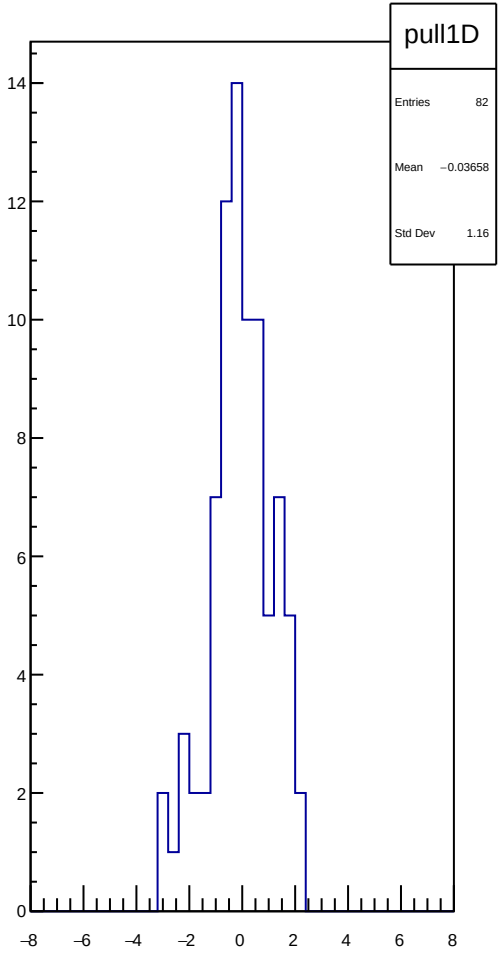

pull1D
Entries 82
Mean −0.006772
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

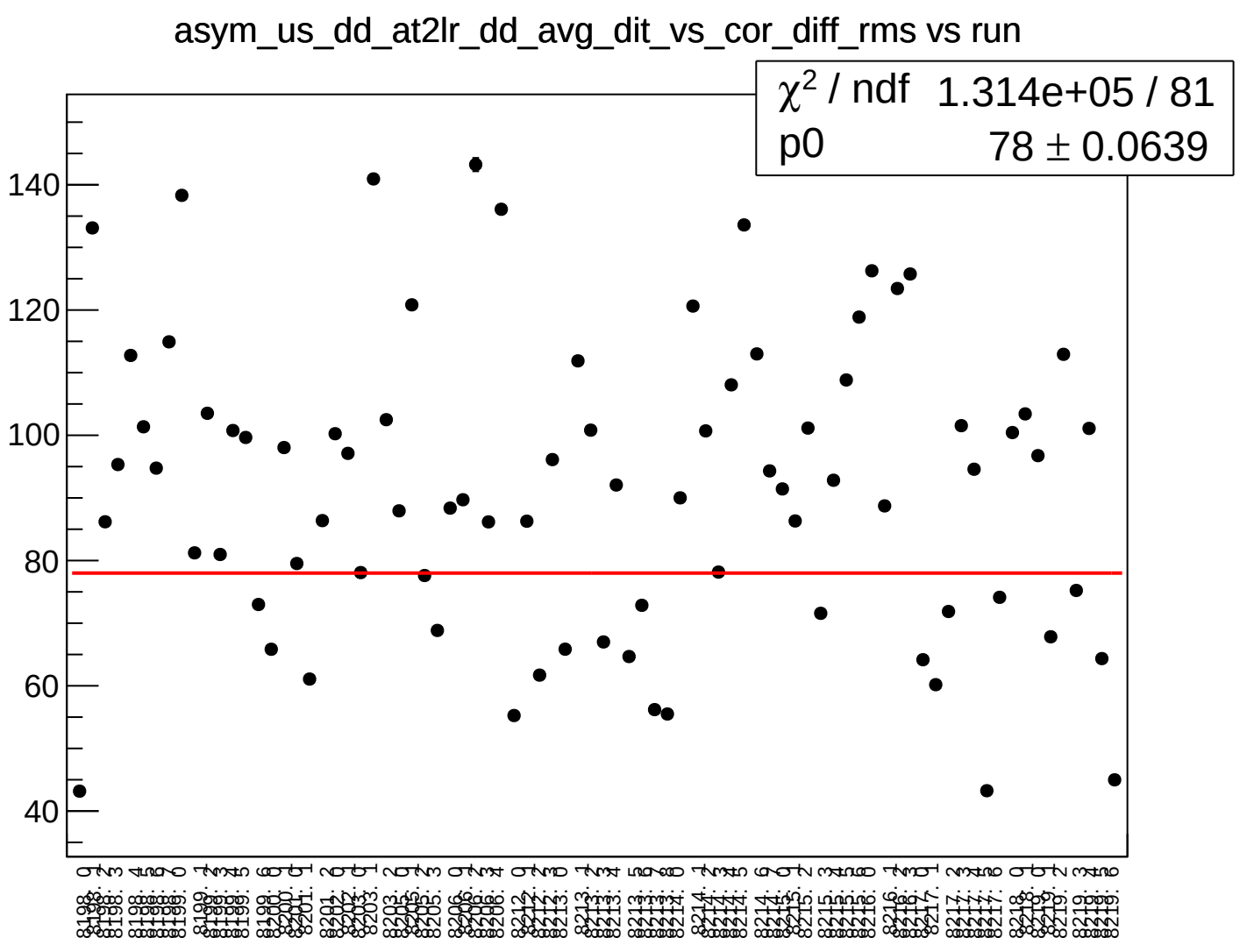

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 2585 / 81
p0 4598 ± 3.614
5000
4900
4800
4700
4600
4500
4400
4300
4200

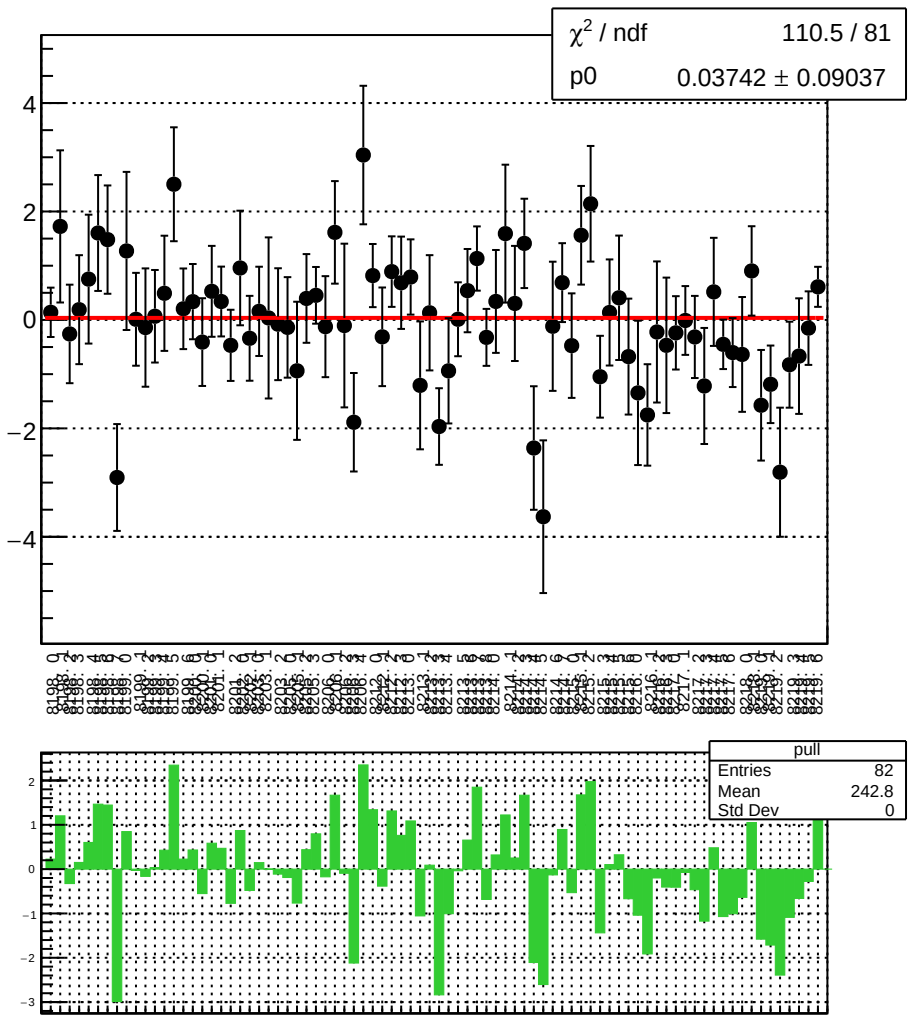

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.14 / 81
p0 7.457e−13 ± 5.332e−13
pull
Entries 82
Mean 17.14
Std Dev 21.47
pull1D
Entries 82
Mean −0.115
Std Dev 1.03

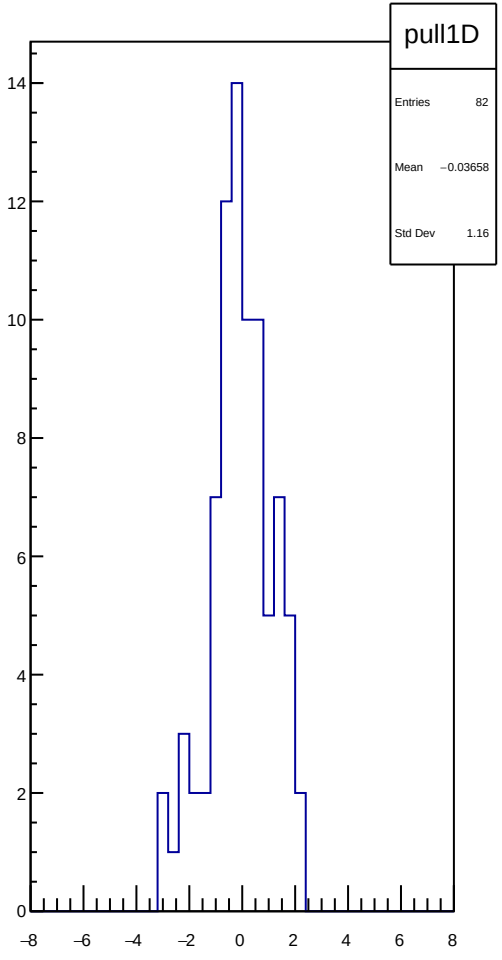

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.043e+05 / 81
p0 3.408e−10 ± 3.77e−13
1
0.8
0.6
0.4
0.2
0

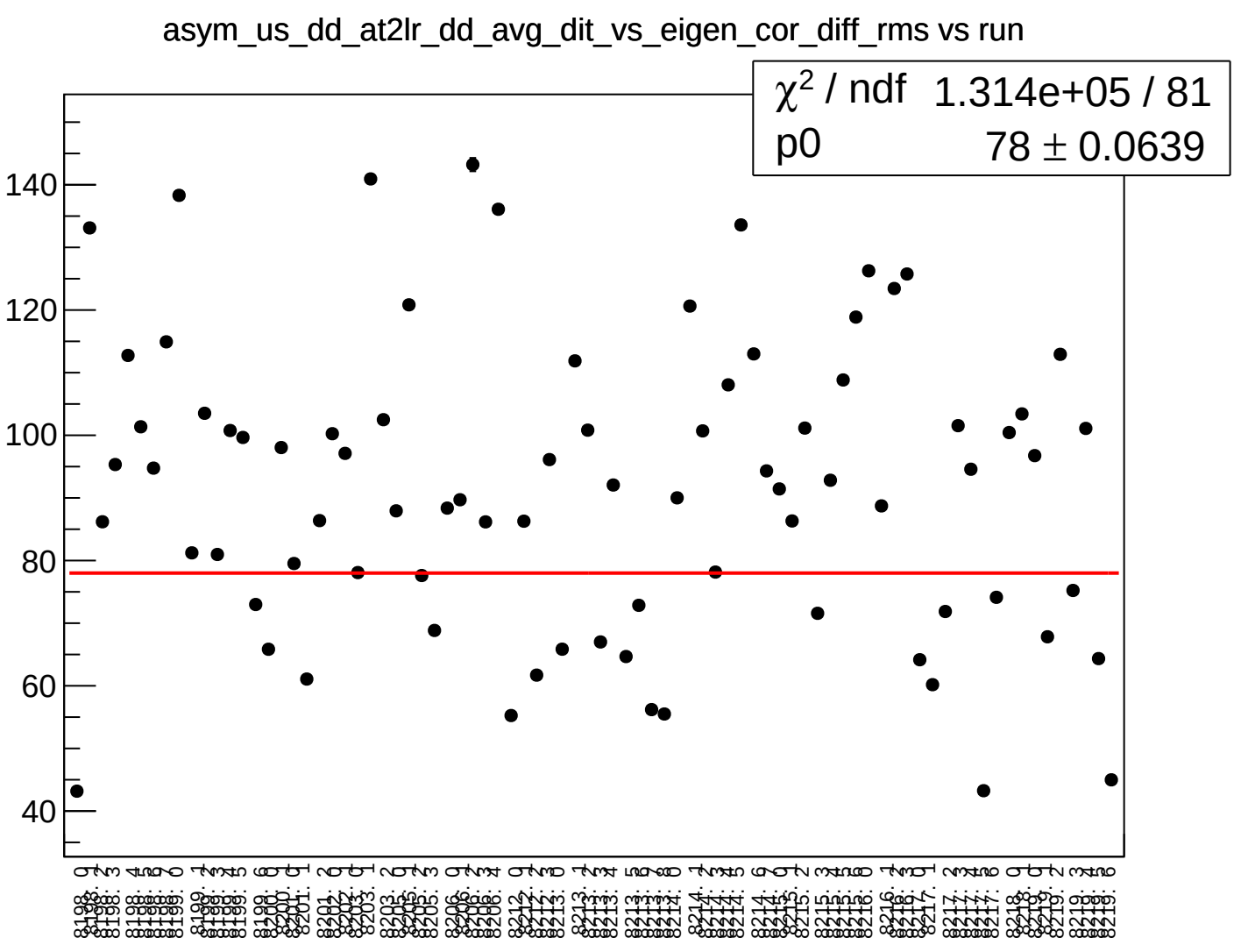

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 110.5 / 81
p0 0.03742 ± 0.09037
pull
Entries 82
Mean 242.8
Std Dev 0

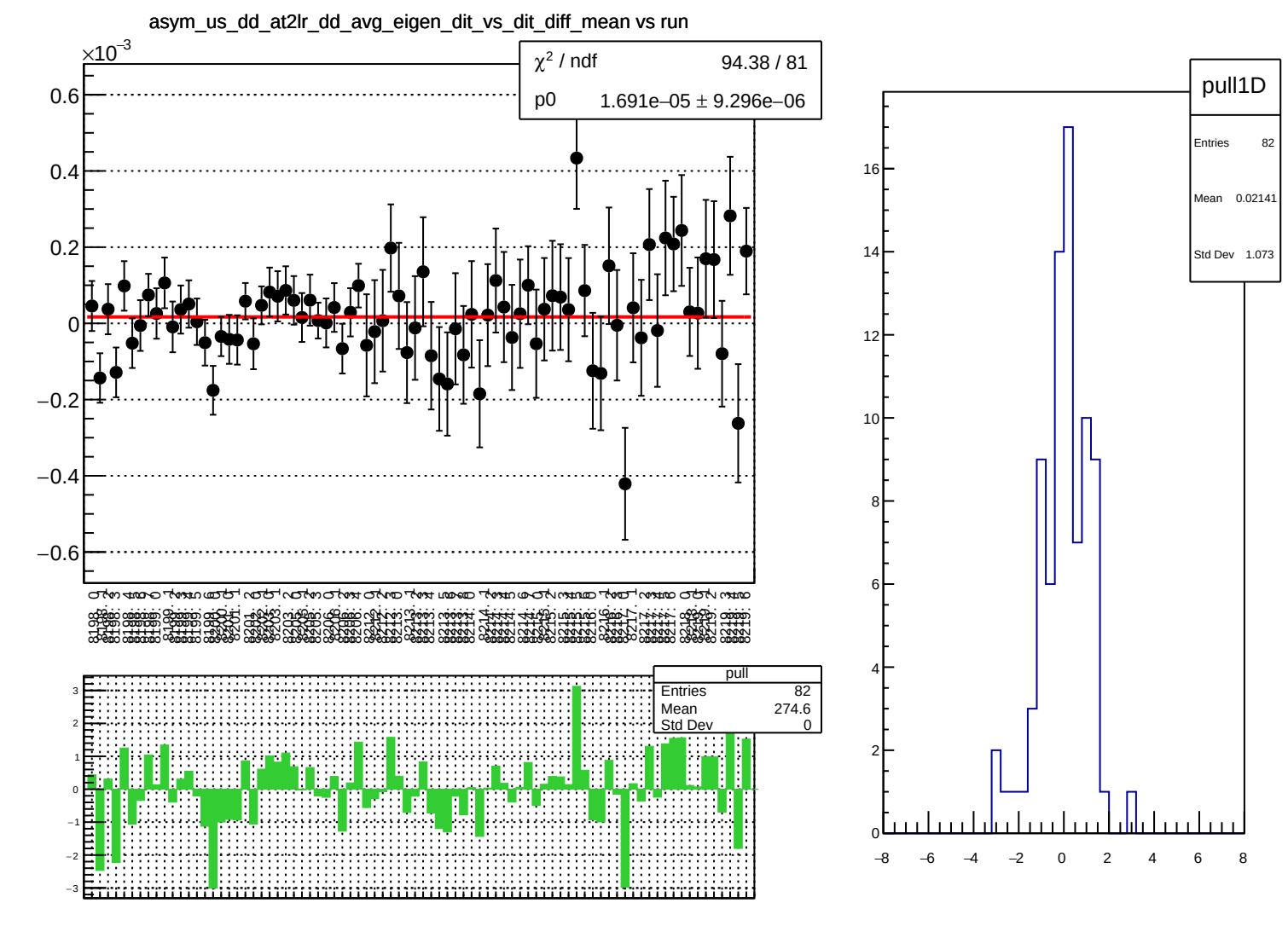

pull1D
Entries 82
Mean −0.03658
Std Dev 1.16

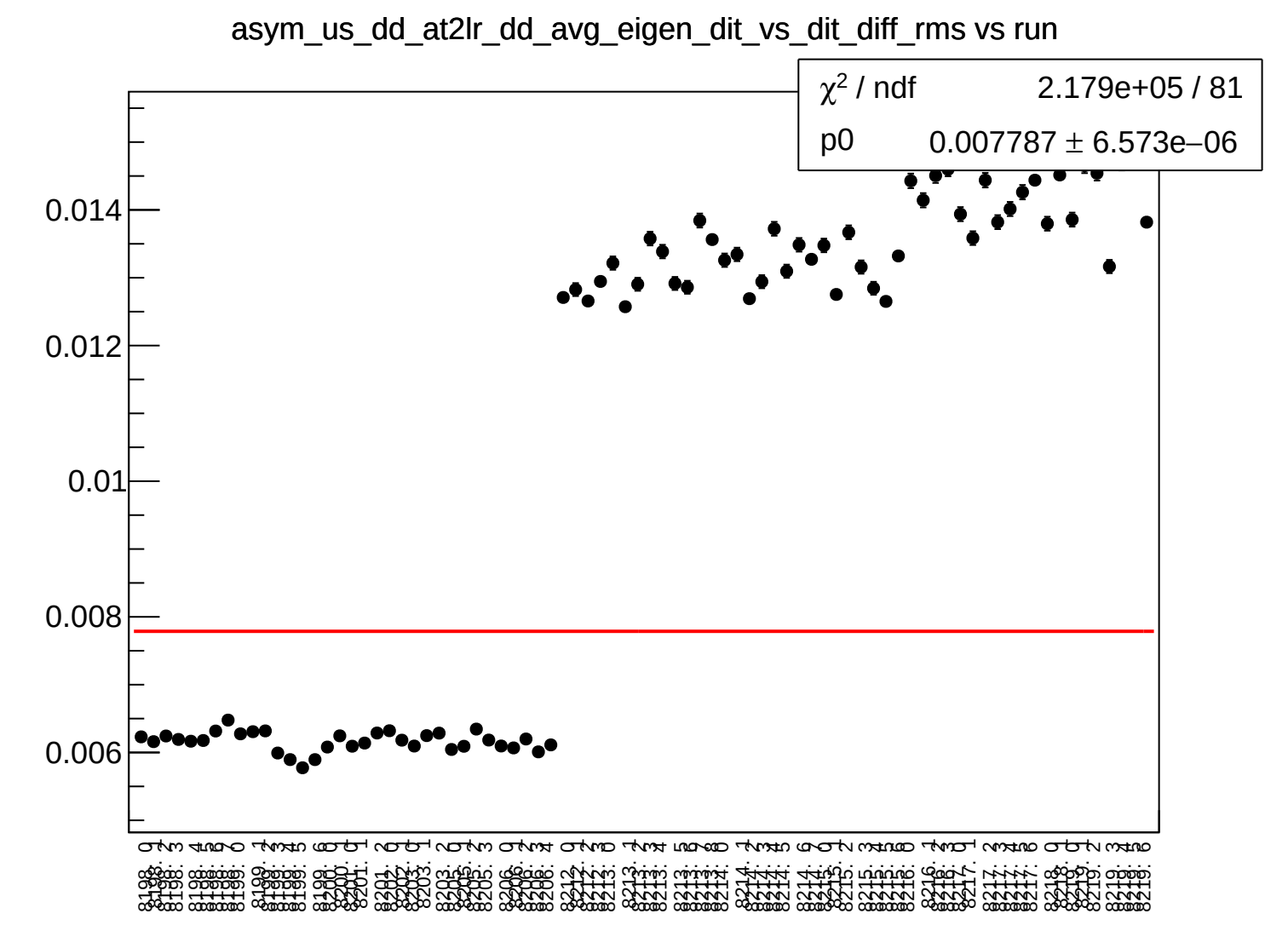

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.314e+05 / 81
p0 78 ± 0.0639
140
120
100
80
60
40

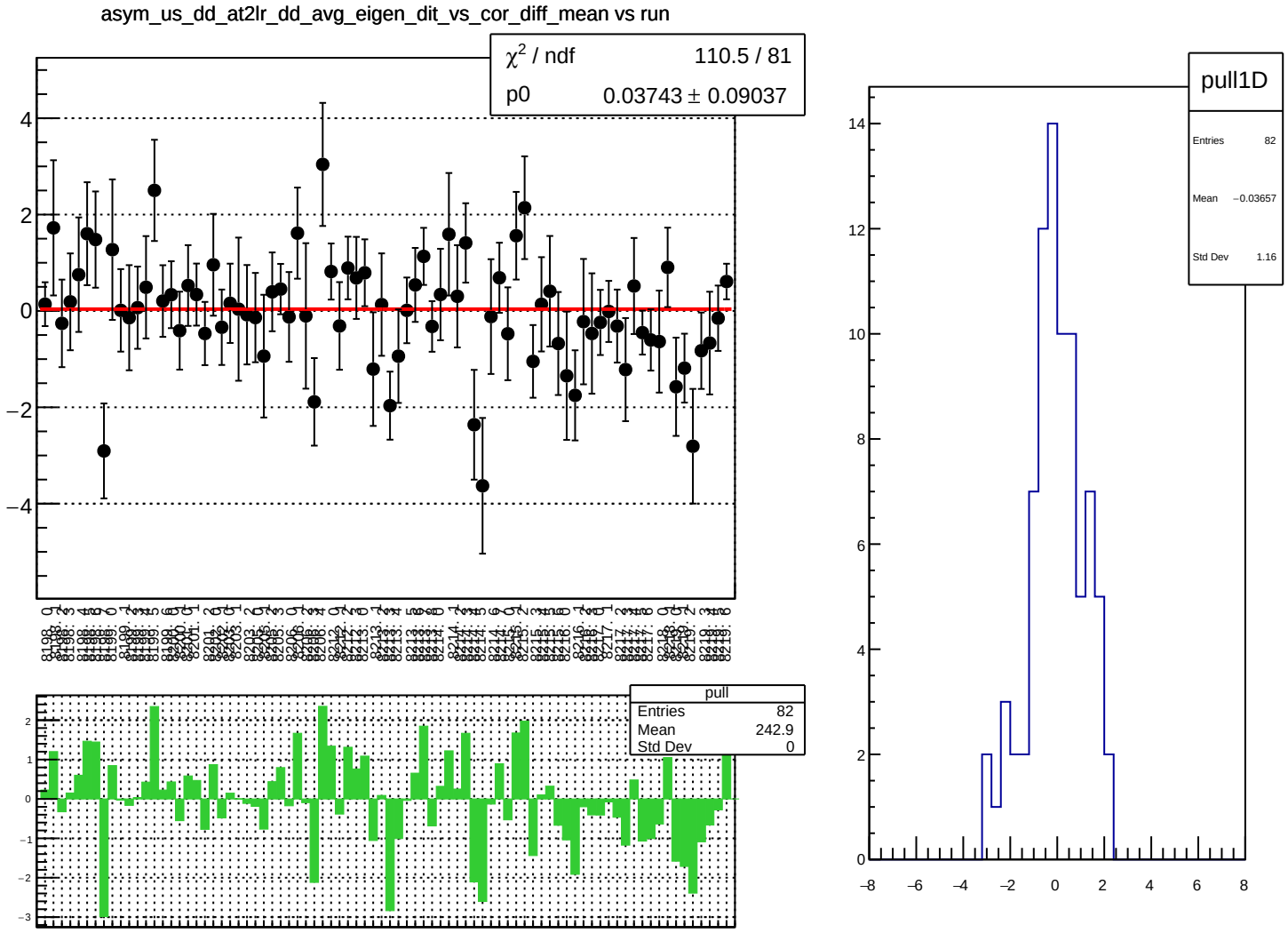

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.5 / 81
p0 0.03742 ± 0.09037
pull
Entries 82
Mean 242.8
Std Dev 0

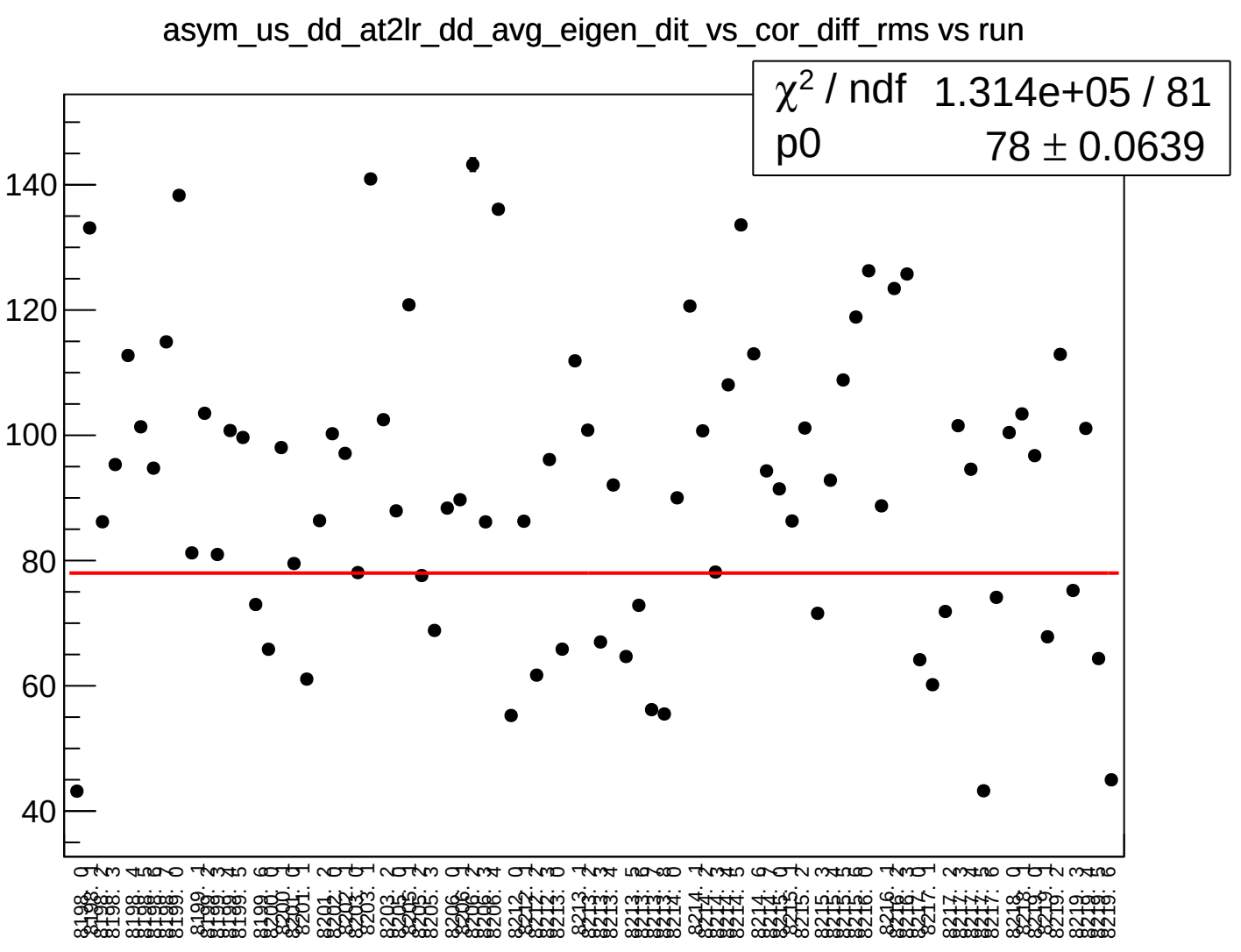

pull1D
Entries 82
Mean −0.03658
Std Dev 1.16

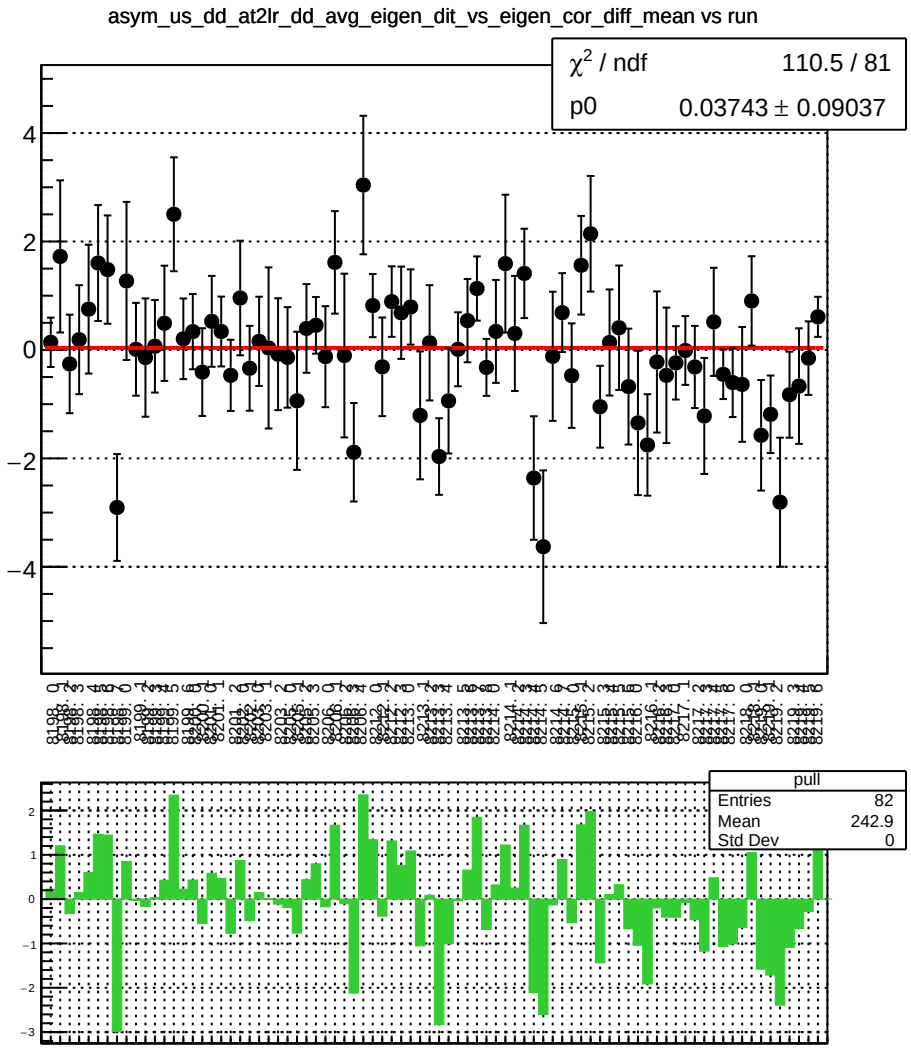

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.314e+05 / 81
p0 78 ± 0.0639
140
120
100
80
60
40

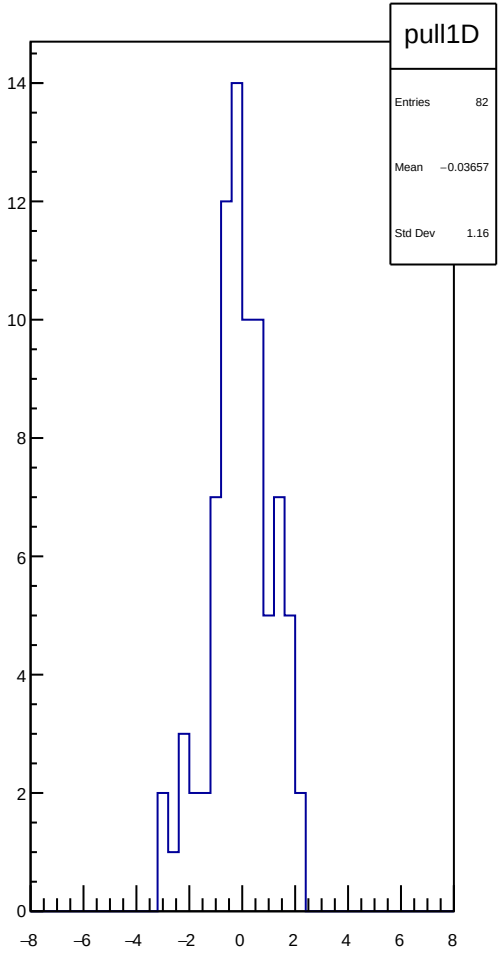

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.38 / 81
p0 1.691e−05 ± 9.296e−06
pull
Entries 82
Mean 274.6
Std Dev 0
pull1D
Entries 82
Mean 0.02141
Std Dev 1.073

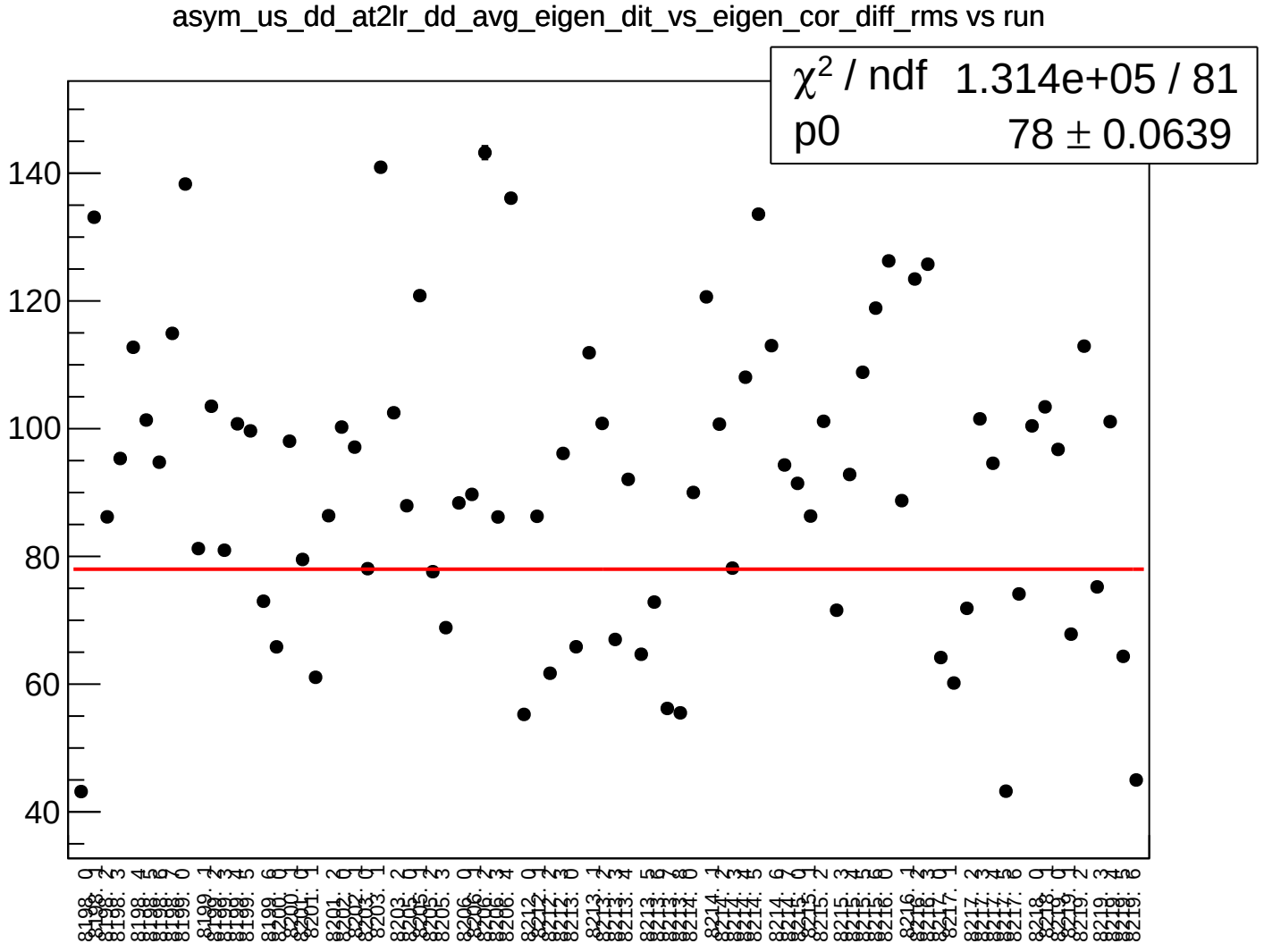

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.179e+05 / 81
p0 0.007787 ± 6.573e−06
0.014
0.012
0.01
0.008
0.006

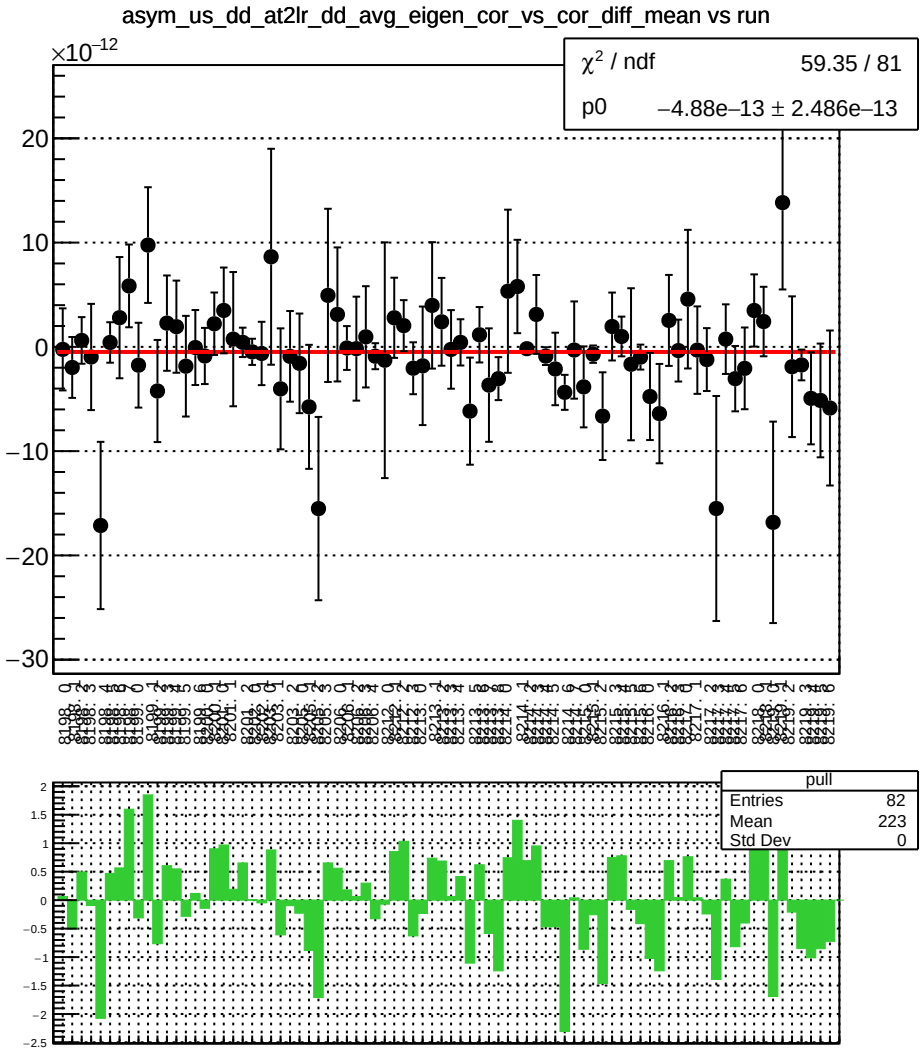

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.5 / 81
p0 0.03743 ± 0.09037
pull
Entries 82
Mean 242.9
Std Dev 0
pull1D
Entries 82
Mean −0.03657
Std Dev 1.16

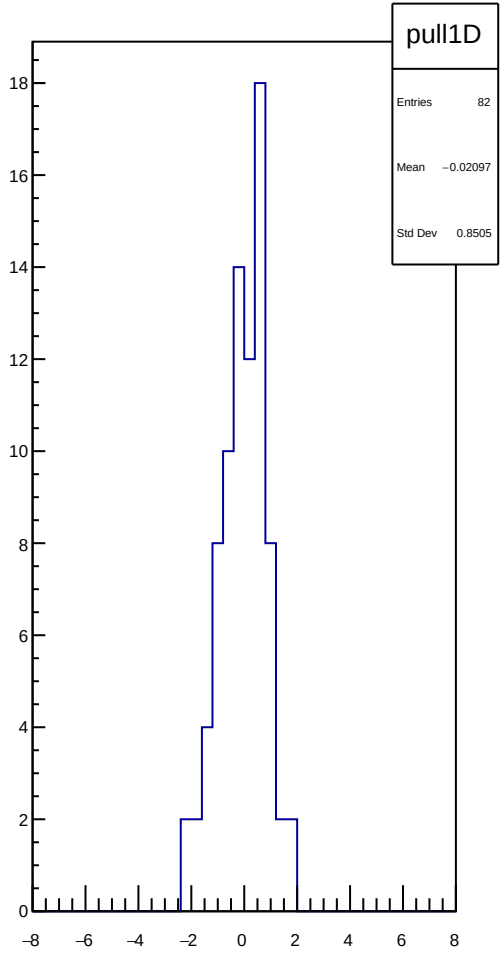

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.314e+05 / 81
p0 78 ± 0.0639
140
120
100
80
60
40

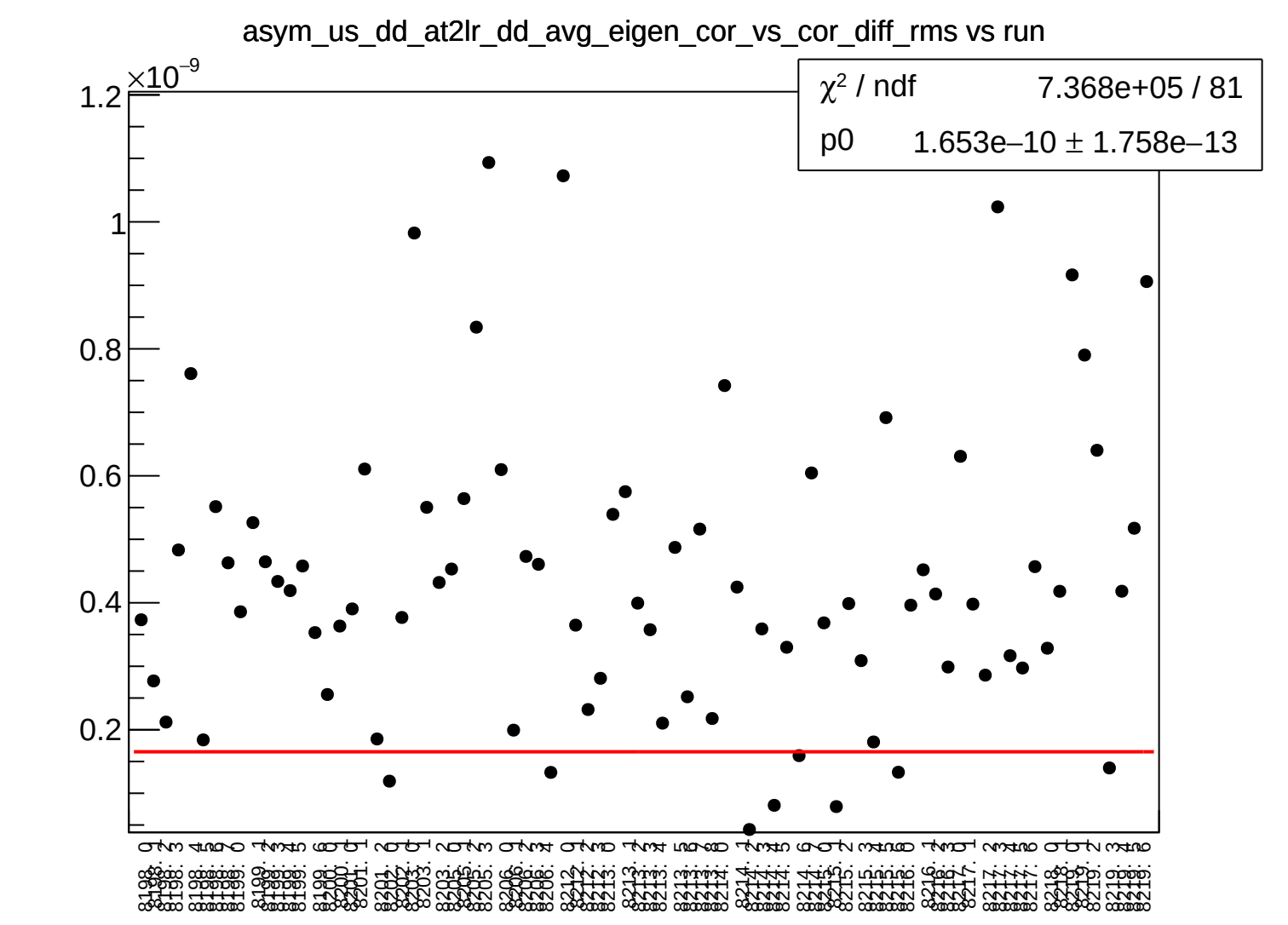

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.5 / 81
p0 0.03743 ± 0.09037
pull
Entries 82
Mean 242.9
Std Dev 0

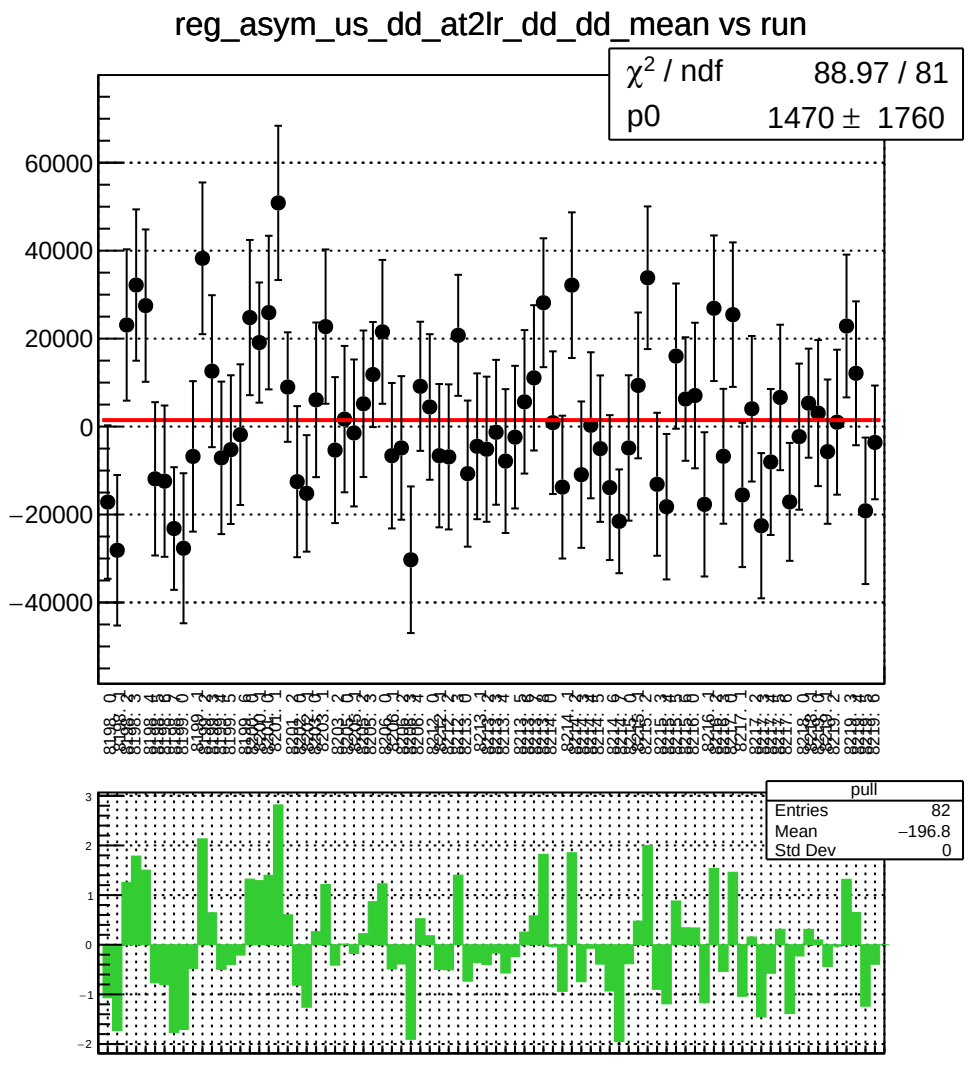

pull1D
Entries 82
Mean −0.03657
Std Dev 1.16

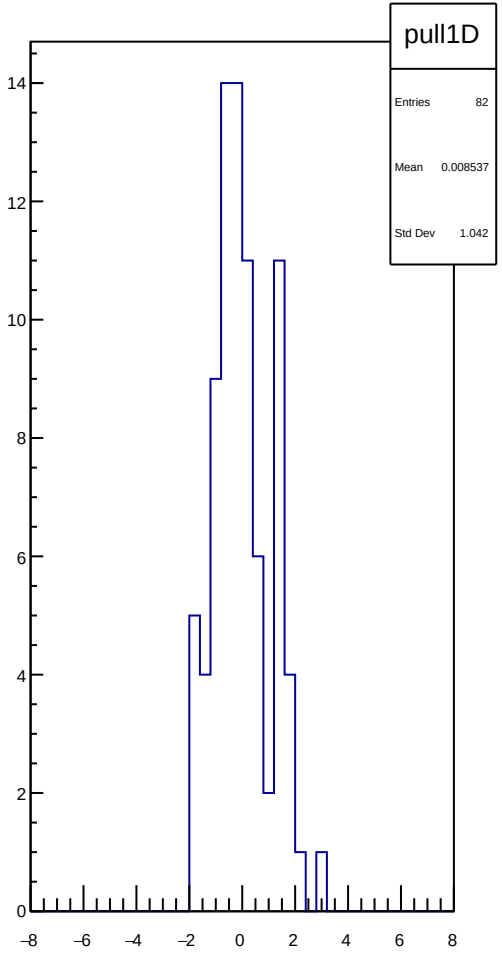

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.314e+05 / 81
p0 78 ± 0.0639
140
120
100
80
60
40

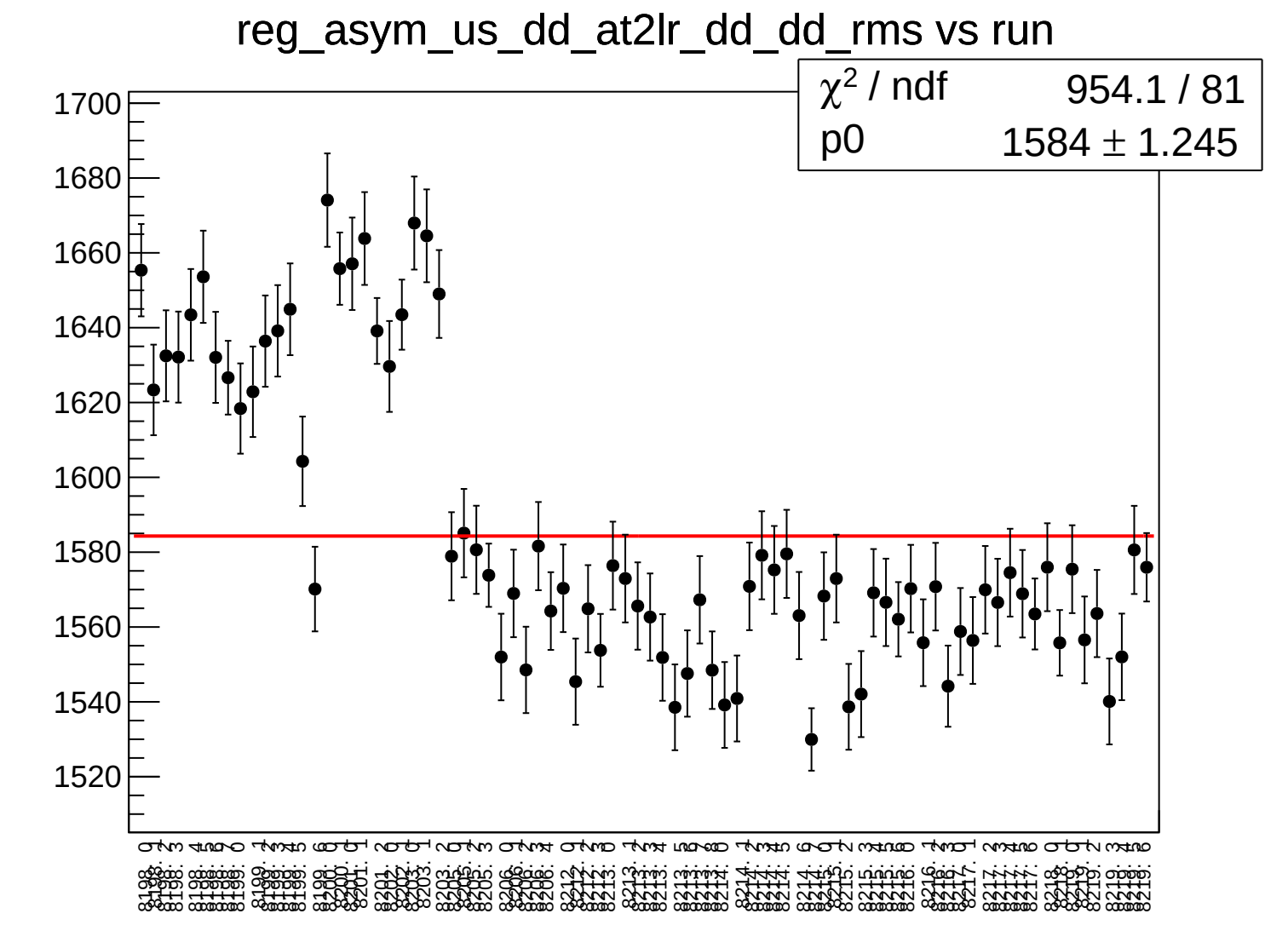

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.35 / 81
p0 −4.88e−13 ± 2.486e−13
pull
Entries 82
Mean 223
Std Dev 0

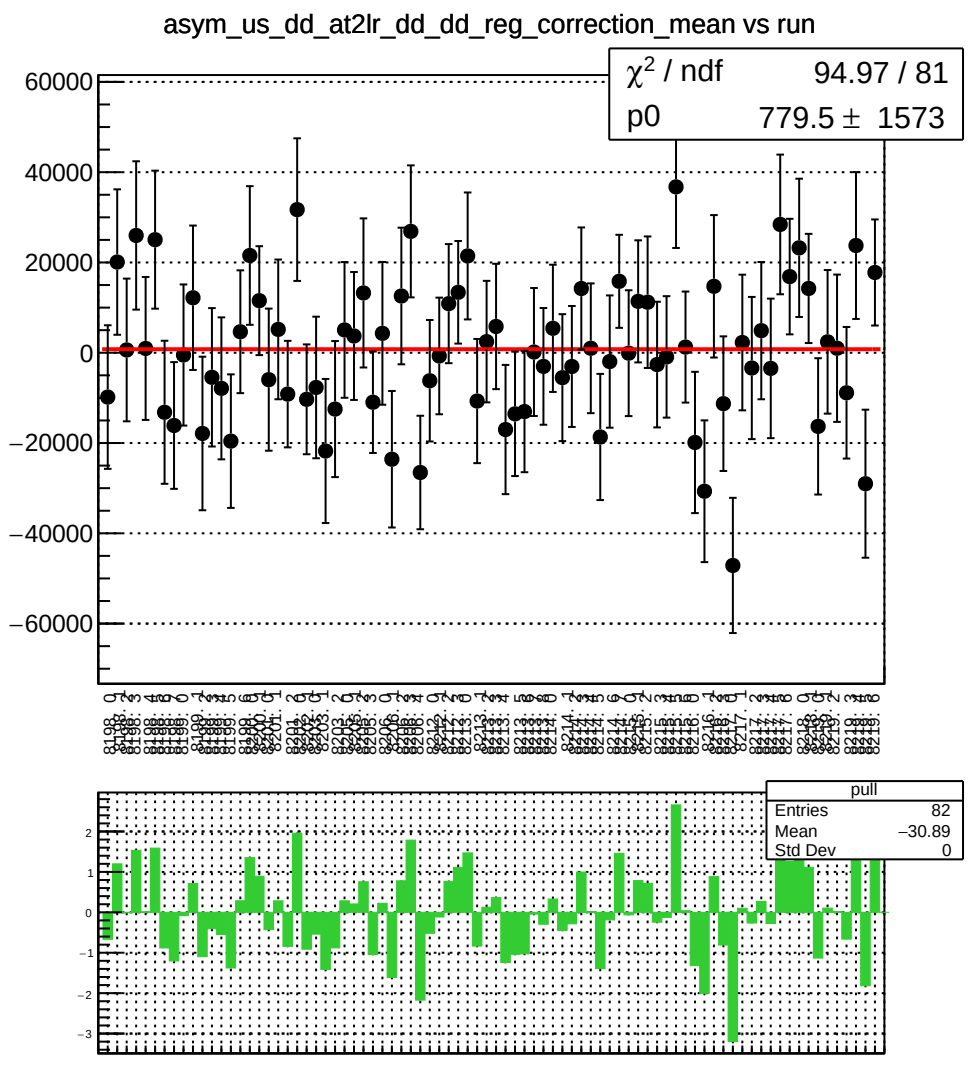

pull1D
Entries 82
Mean −0.02097
Std Dev 0.8505

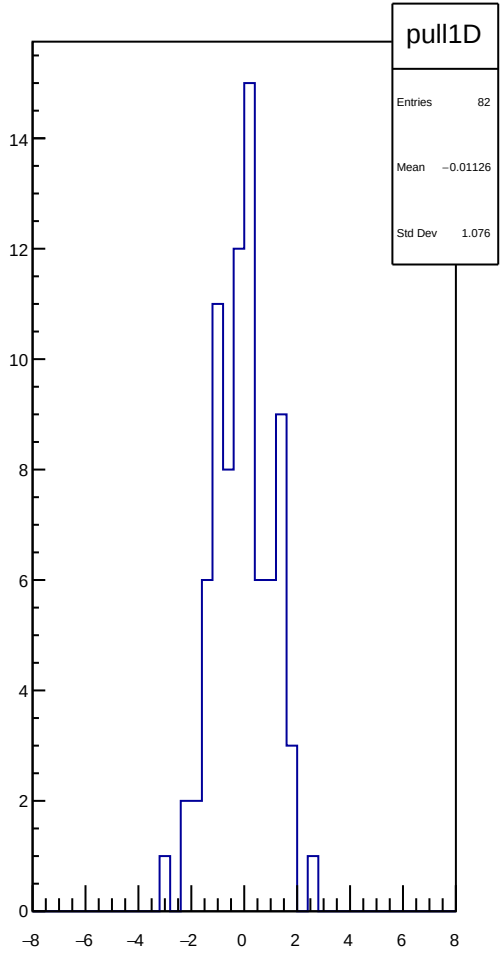

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.368e+05 / 81
p0 1.653e−10 ± 1.758e−13
1.2
1
0.8
0.6
0.4
0.2

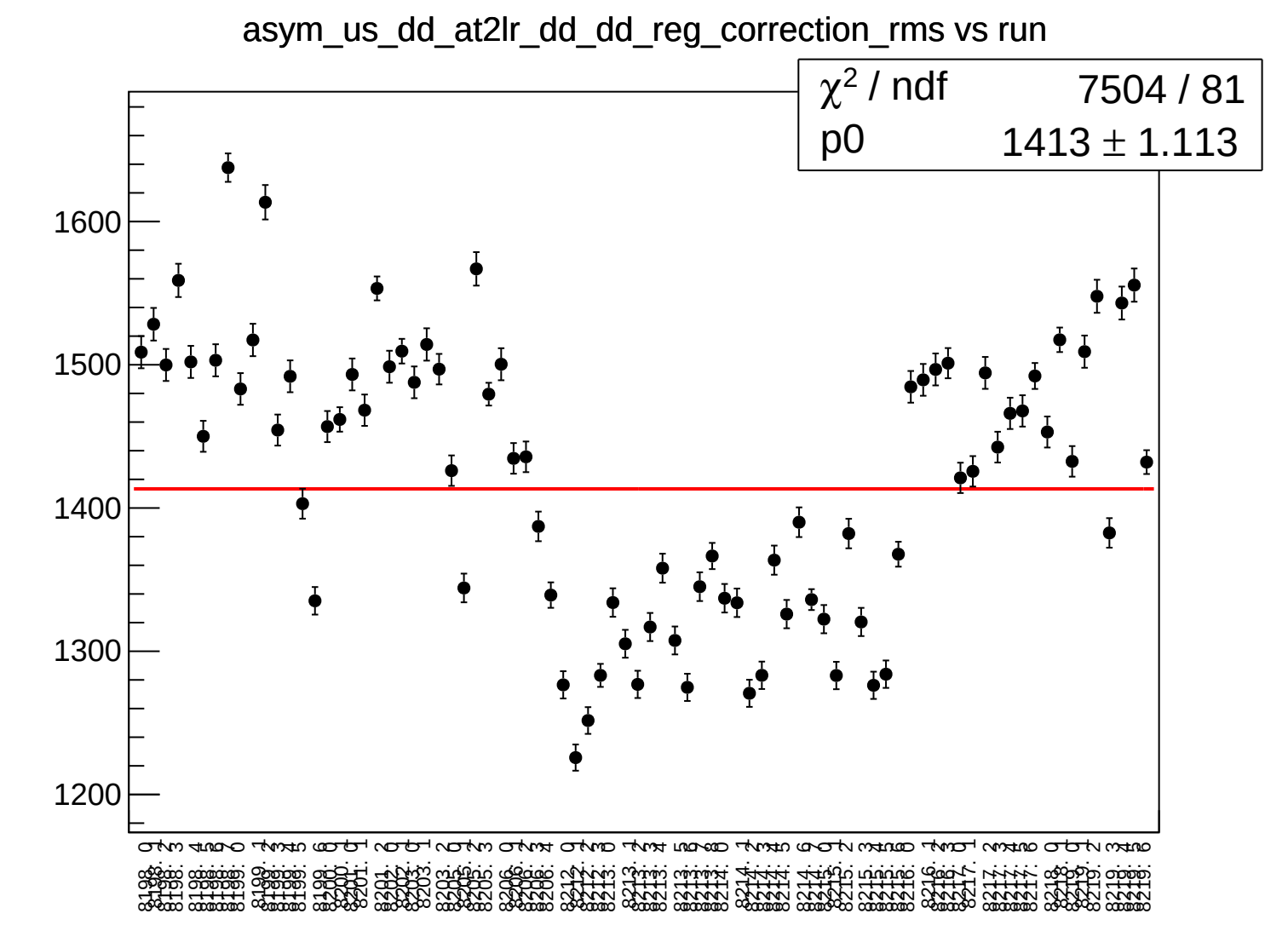

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 88.97 / 81
p0 1470 ± 1760
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −196.8
Std Dev 0
3
2
1
0
−1
−2

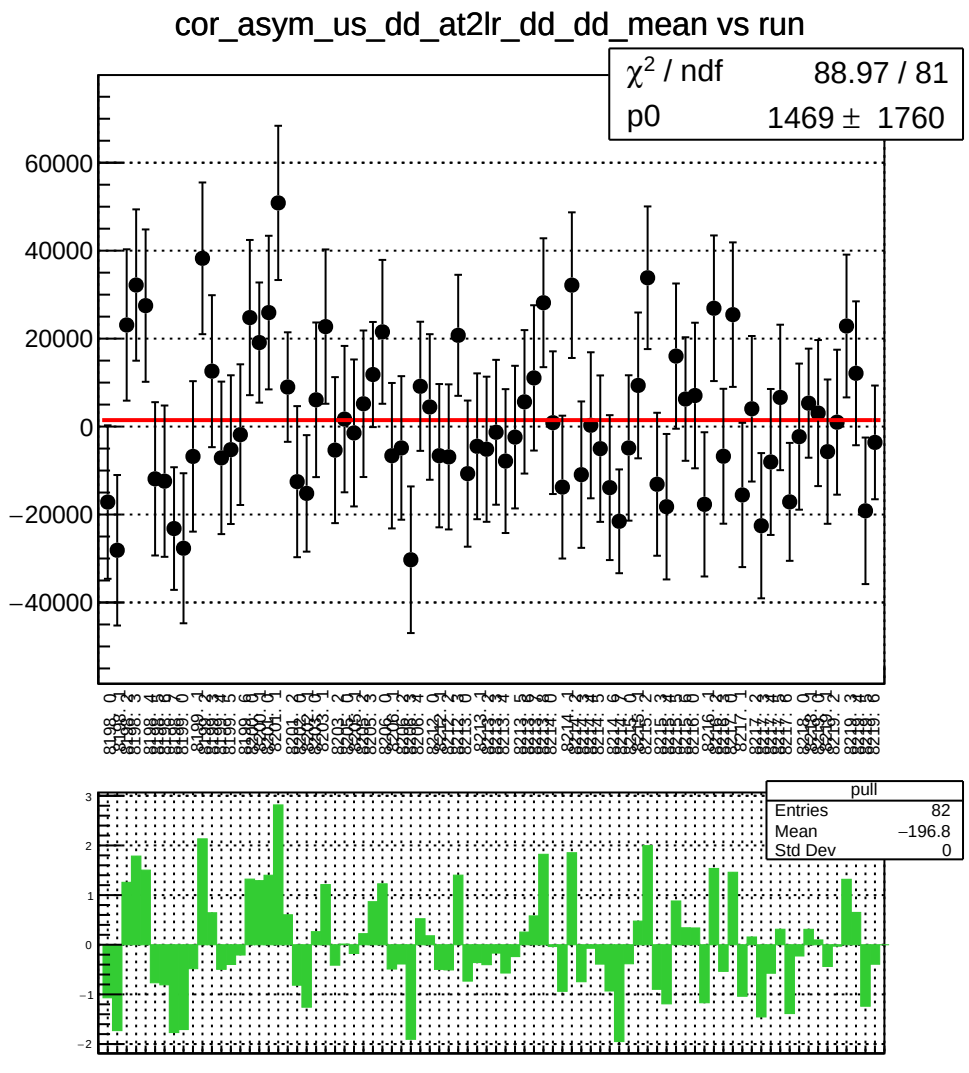

pull1D
Entries 82
Mean 0.008537
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

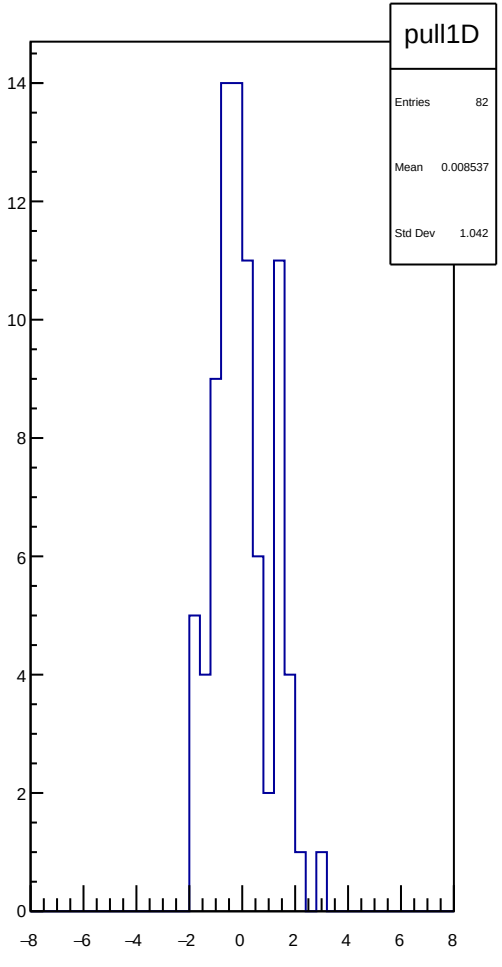

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 954.1 / 81
p0 1584 ± 1.245
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

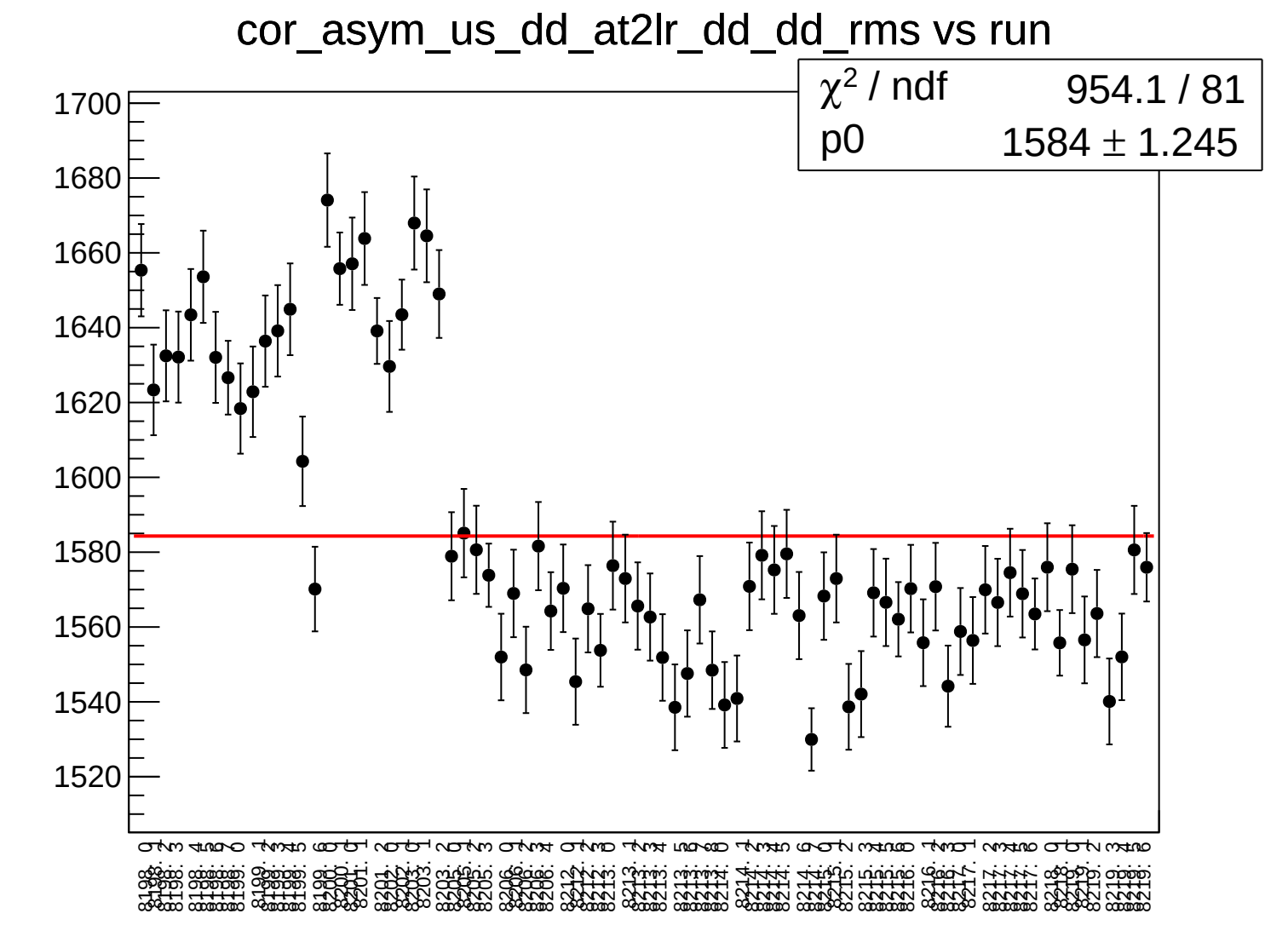

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 94.97 / 81
p0 779.5 ± 1573
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −30.89
Std Dev 0
2
1
0
−1
−2
−3

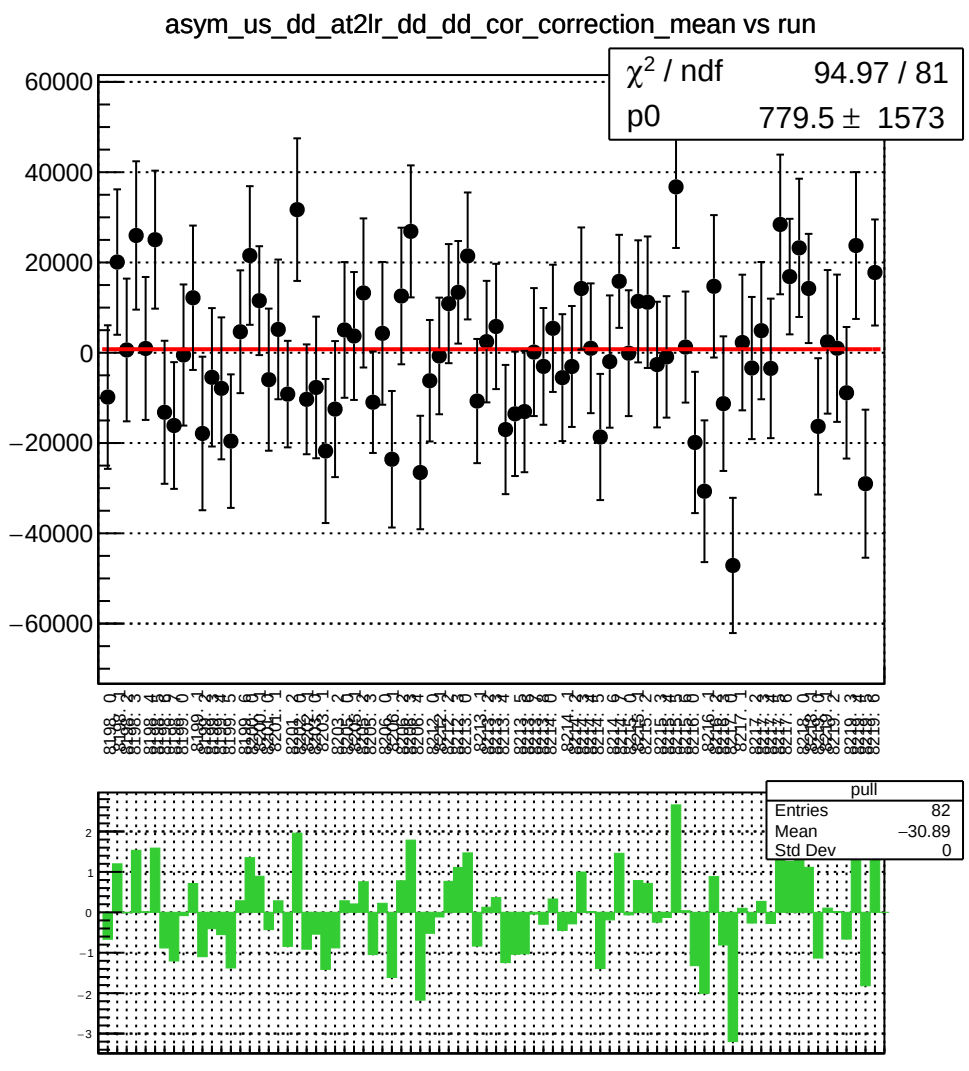

pull1D
Entries 82
Mean −0.01126
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

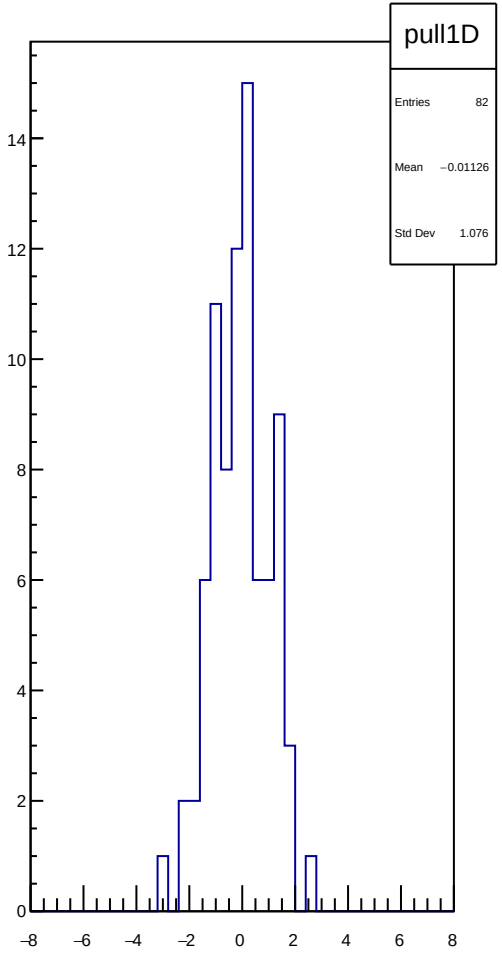

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 7504 / 81
p0 1413 ± 1.113
1600
1500
1400
1300
1200

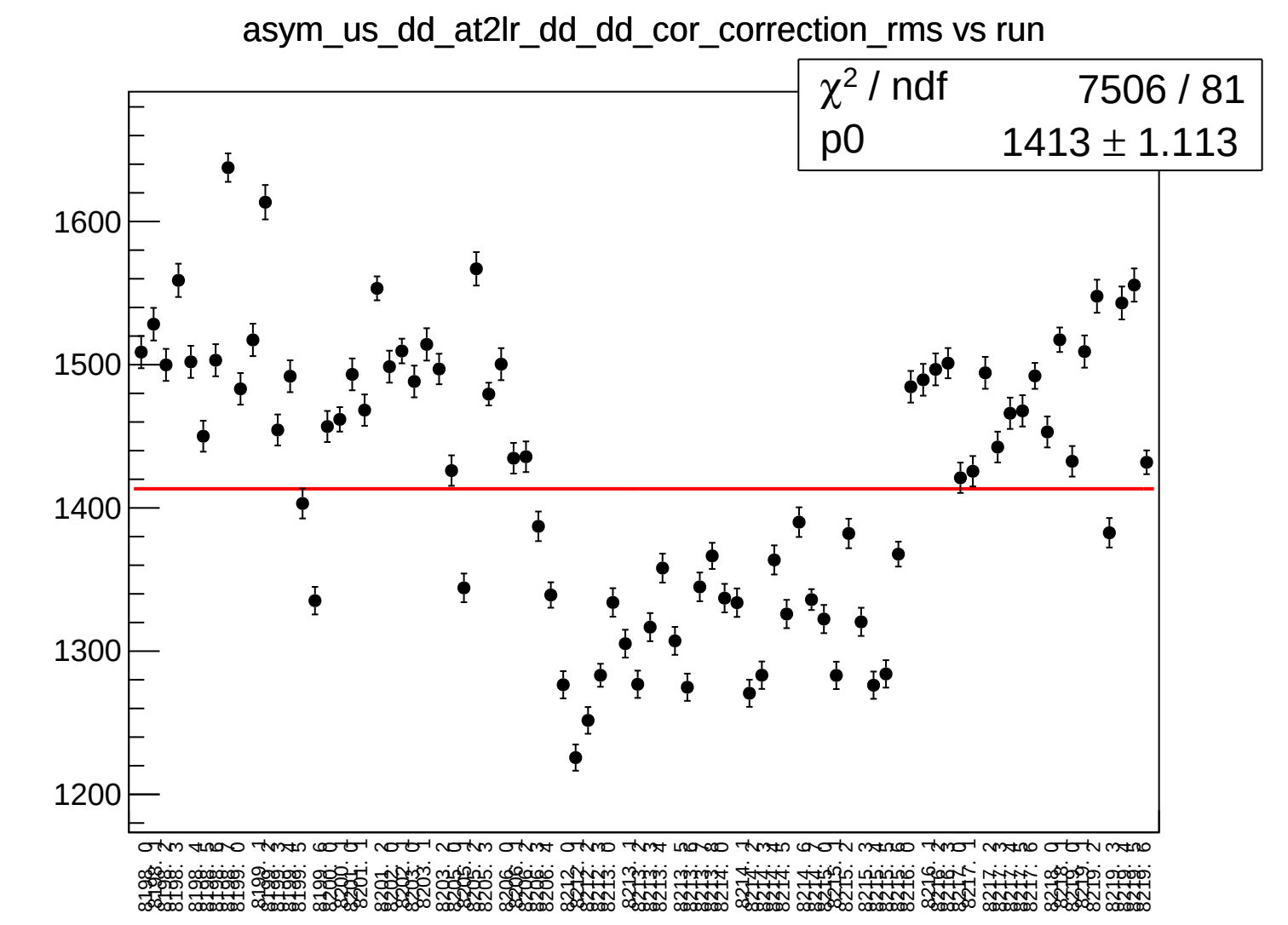

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 88.97 / 81
p0 1469 ± 1760
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −196.8
Std Dev 0
3
2
1
0
−1
−2

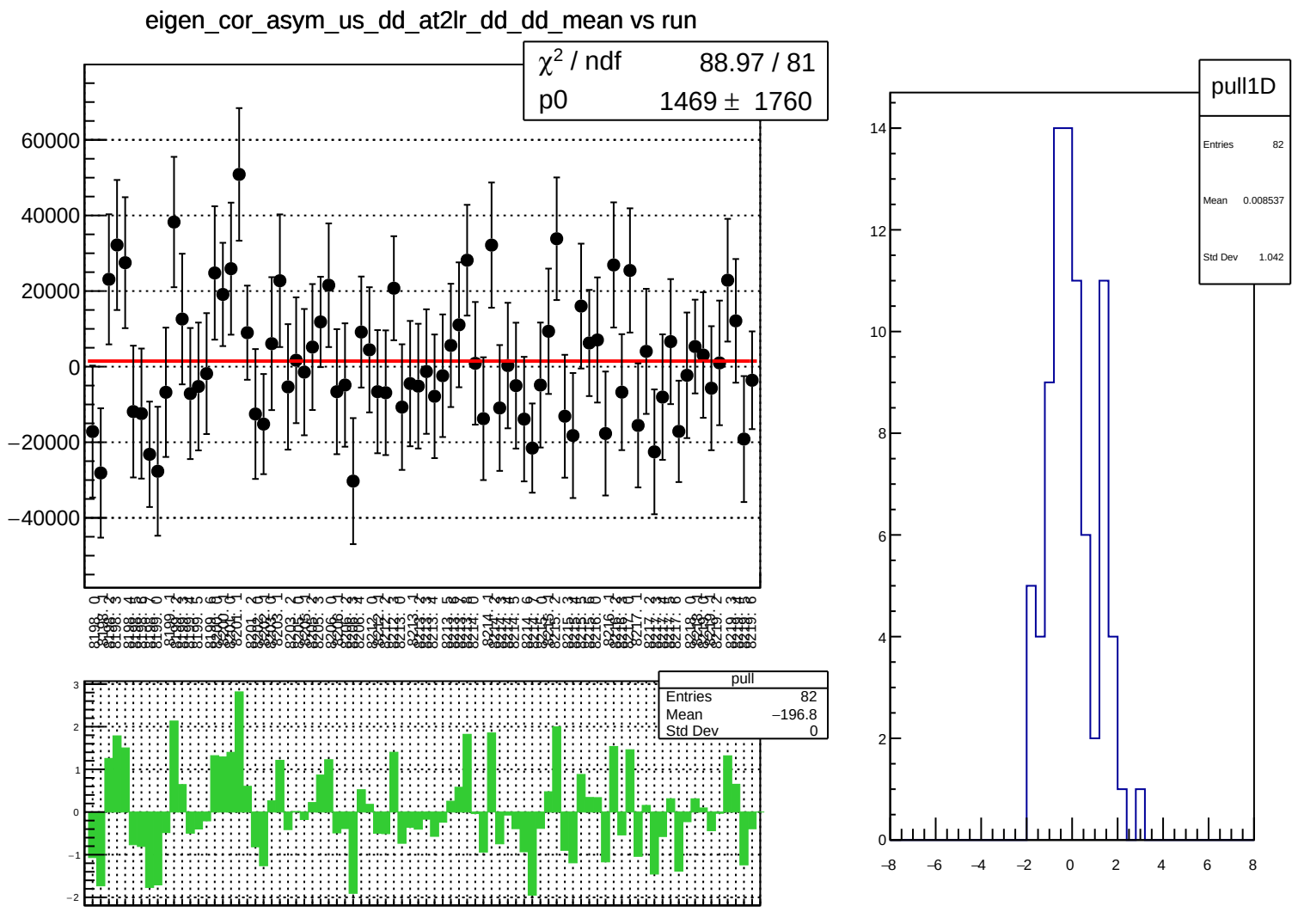

pull1D
Entries 82
Mean 0.008537
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

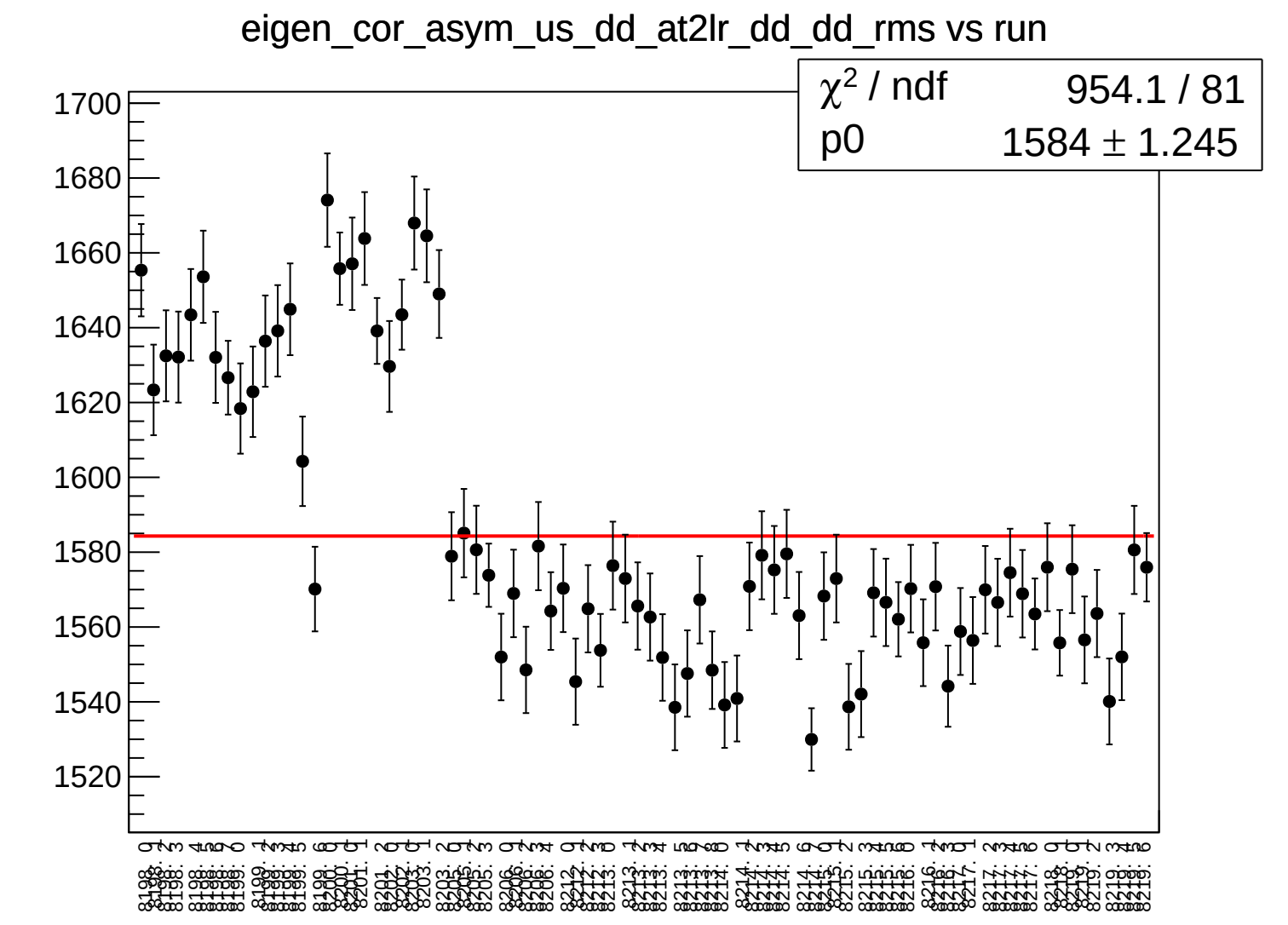

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 954.1 / 81
p0 1584 ± 1.245
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

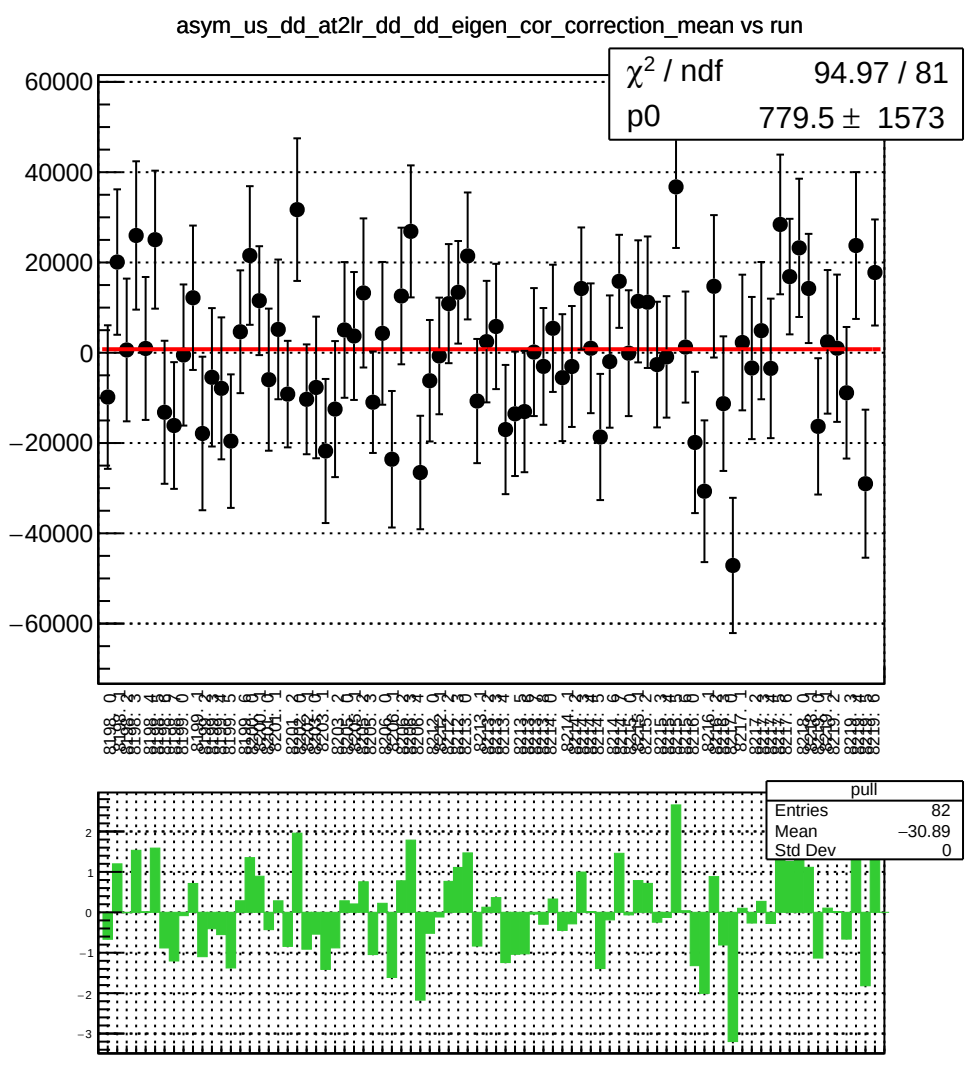

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 94.97 / 81
p0 779.5 ± 1573
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −30.89
Std Dev 0
2
1
0
−1
−2
−3

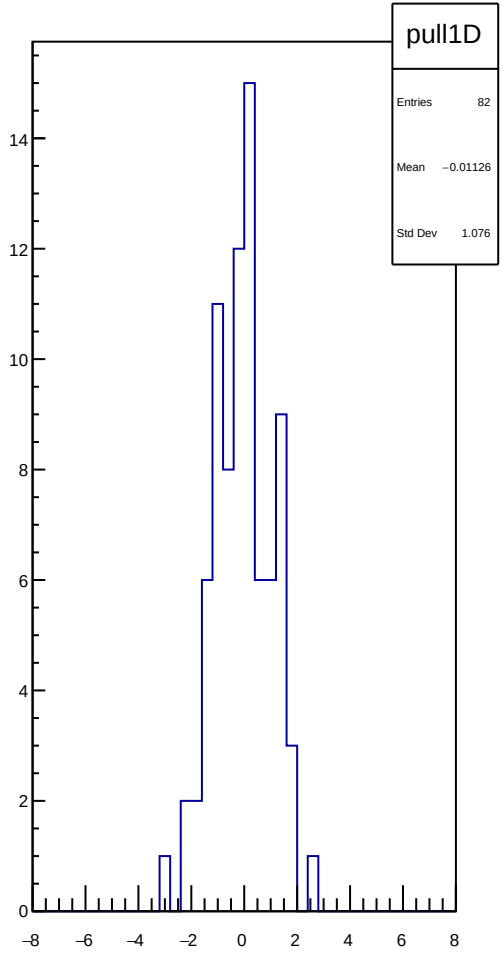

pull1D
Entries 82
Mean −0.01126
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

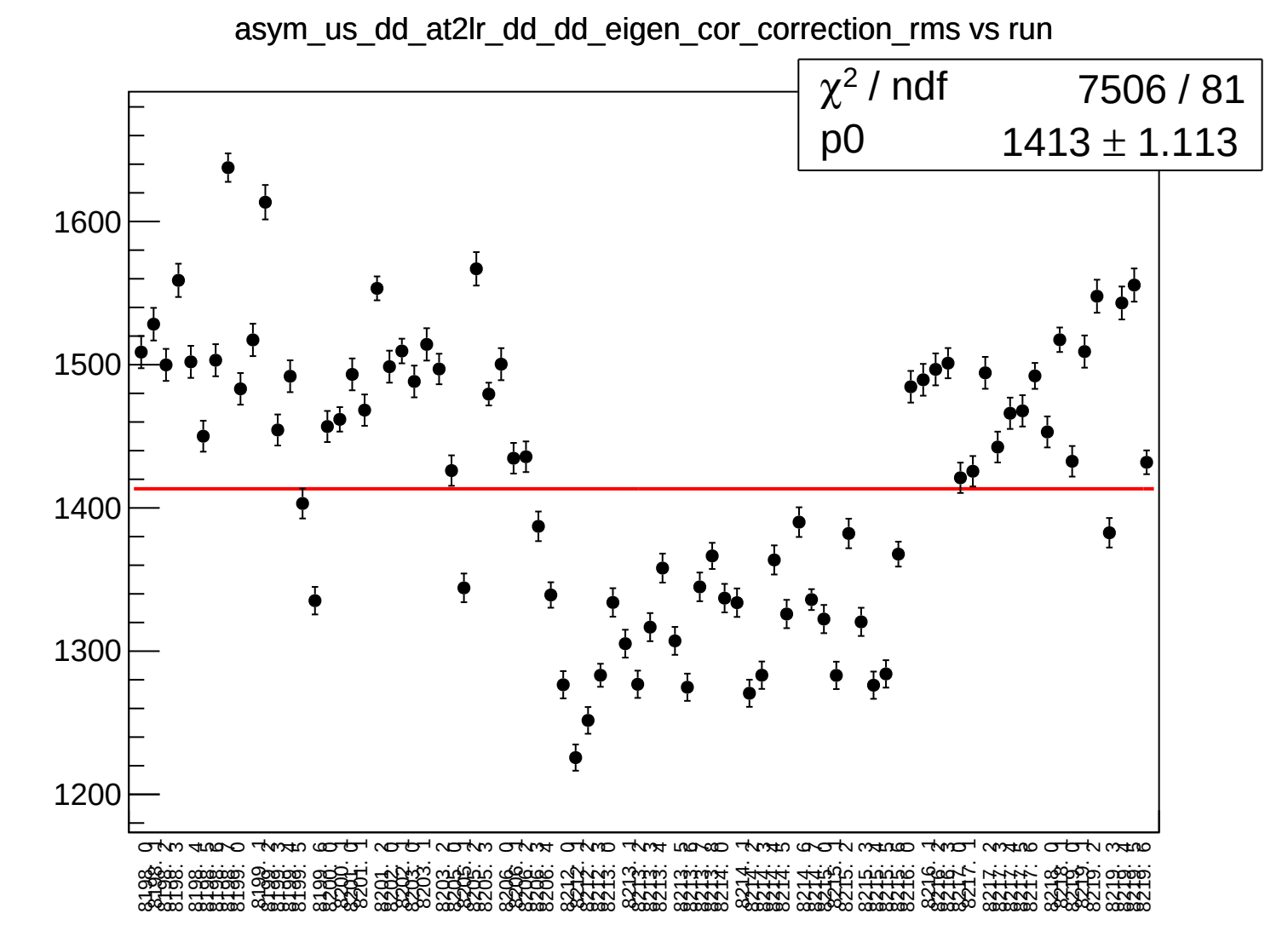

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 7506 / 81
p0 1413 ± 1.113
1600
1500
1400
1300
1200

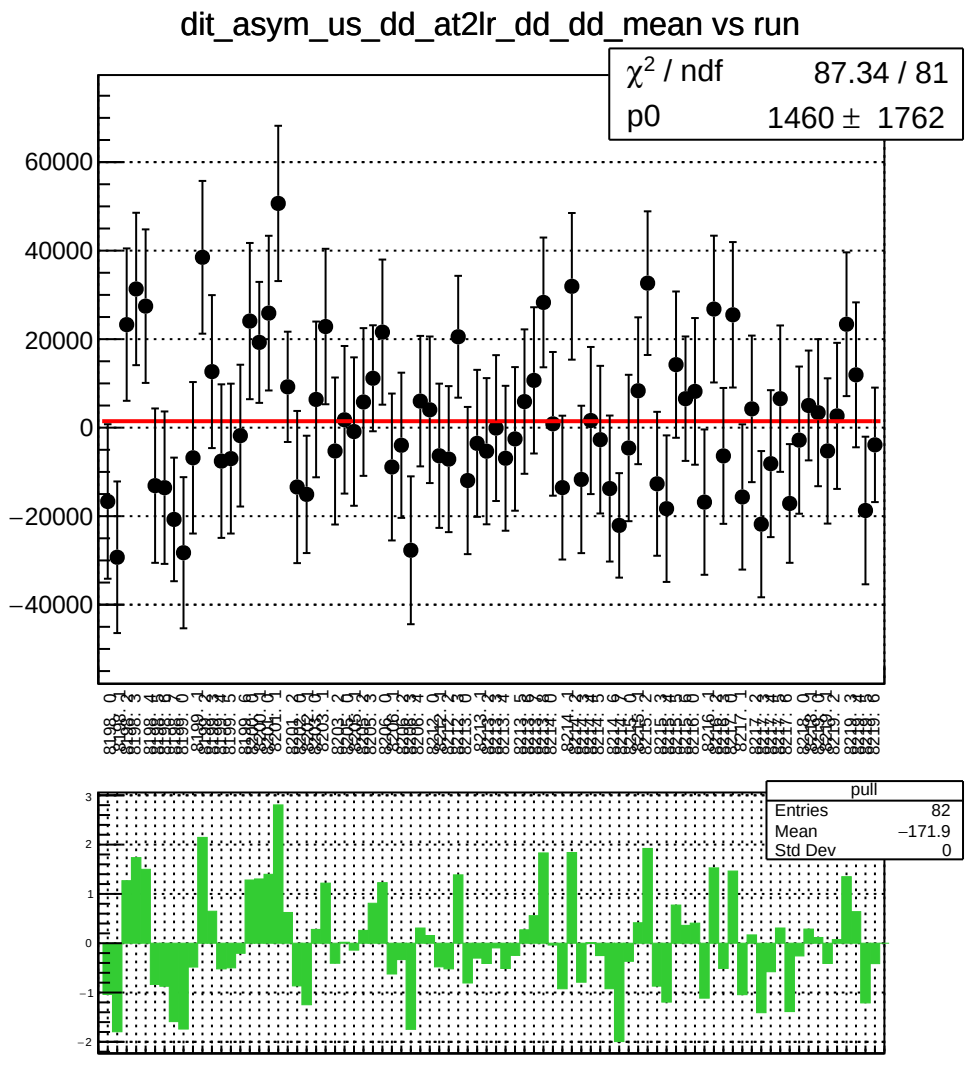

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 88.97 / 81
p0 1469 ± 1760
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −196.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.008537
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

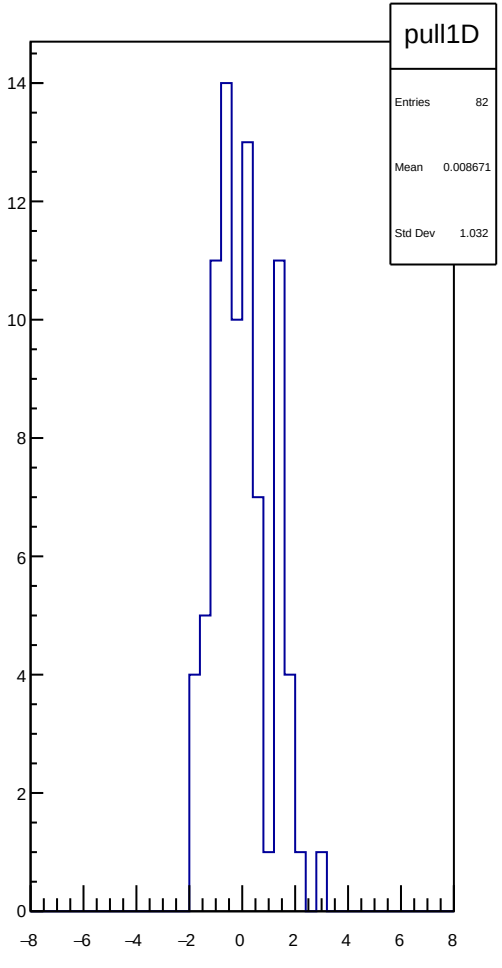

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 954.1 / 81
p0 1584 ± 1.245
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520


asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.97 / 81
p0 779.5 ± 1573
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −30.89
Std Dev 0
2
1
0
−1
−2
−3

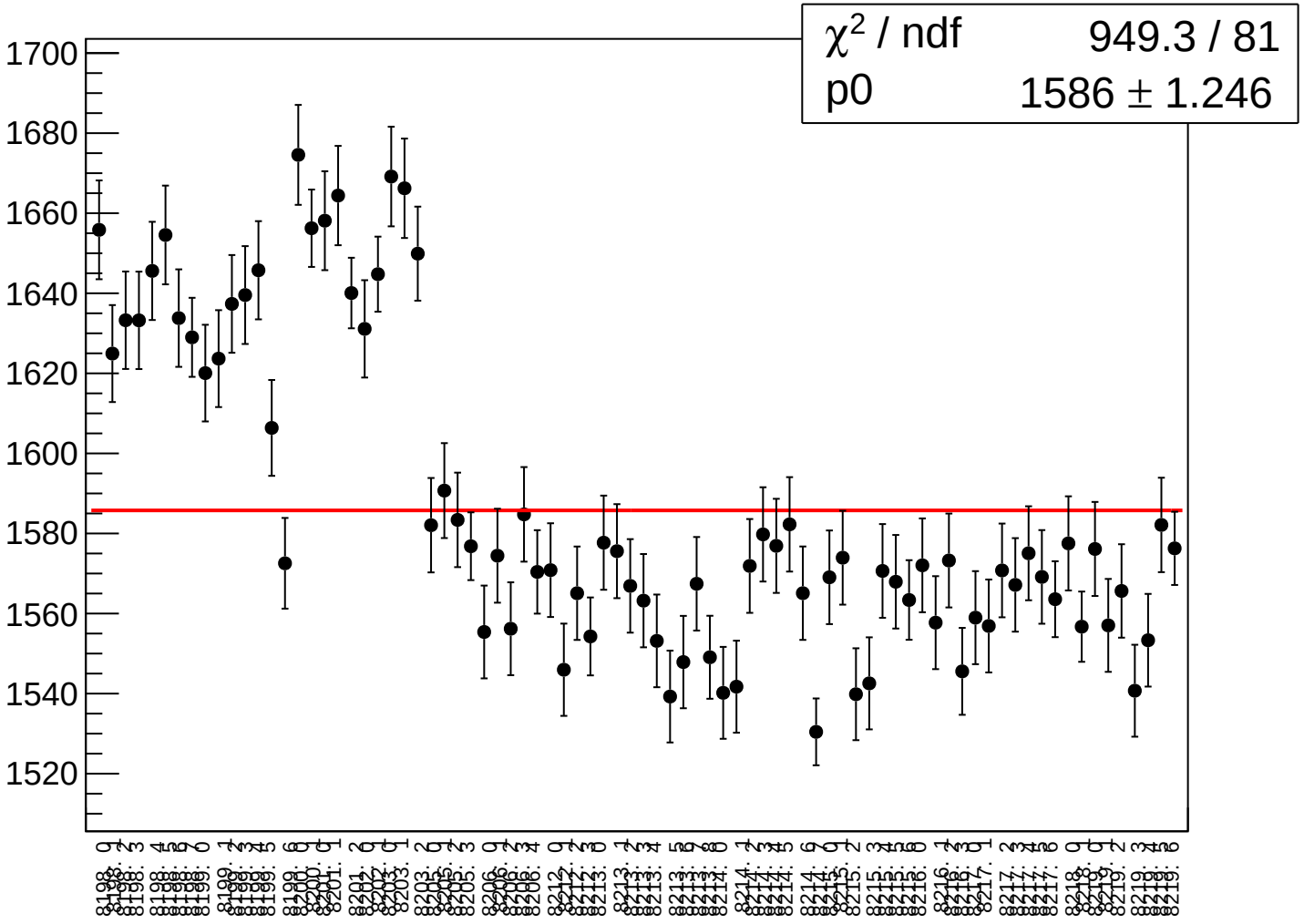

pull1D
Entries 82
Mean −0.01126
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

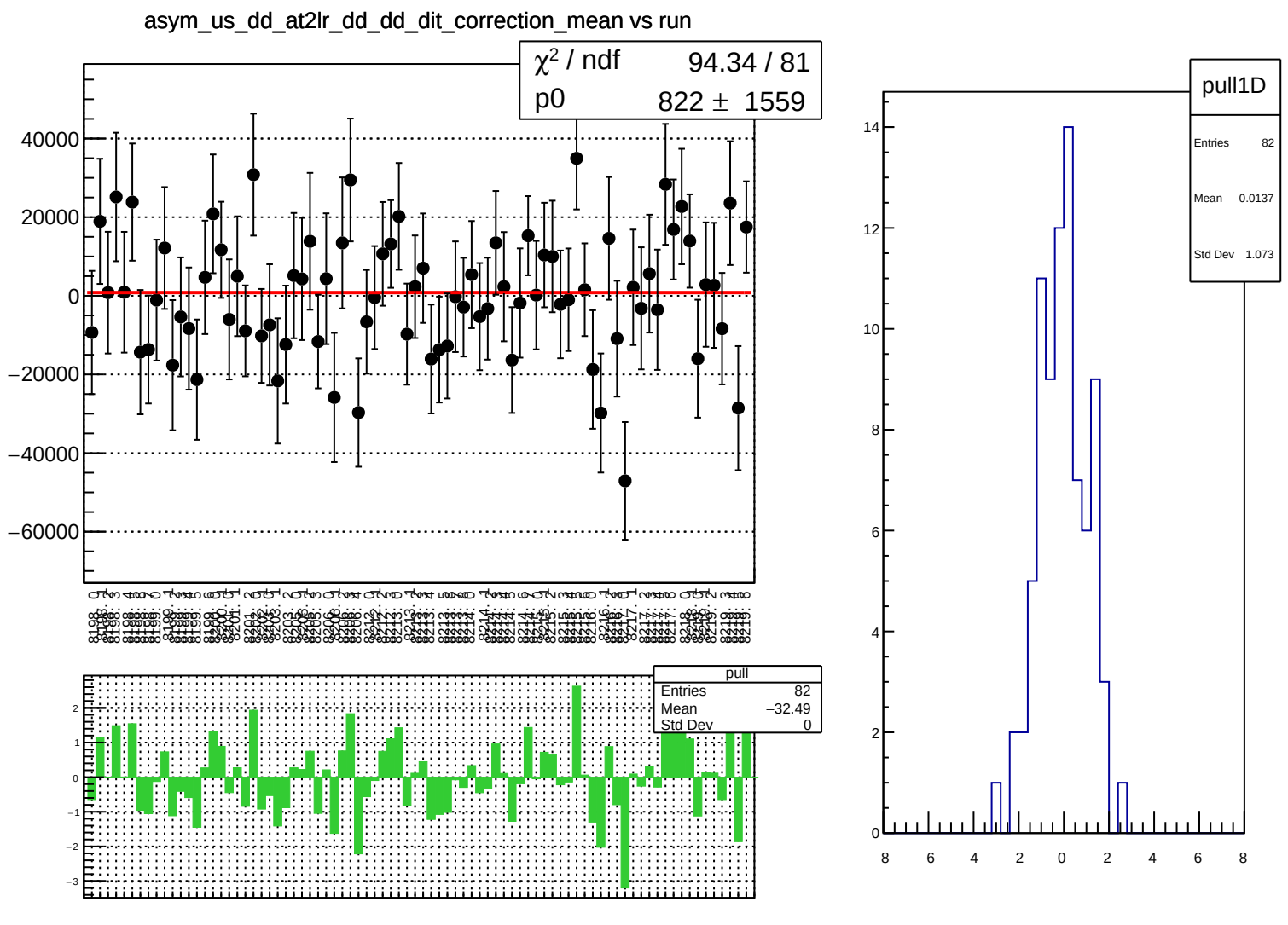

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7506 / 81
p0 1413 ± 1.113
1600
1500
1400
1300
1200

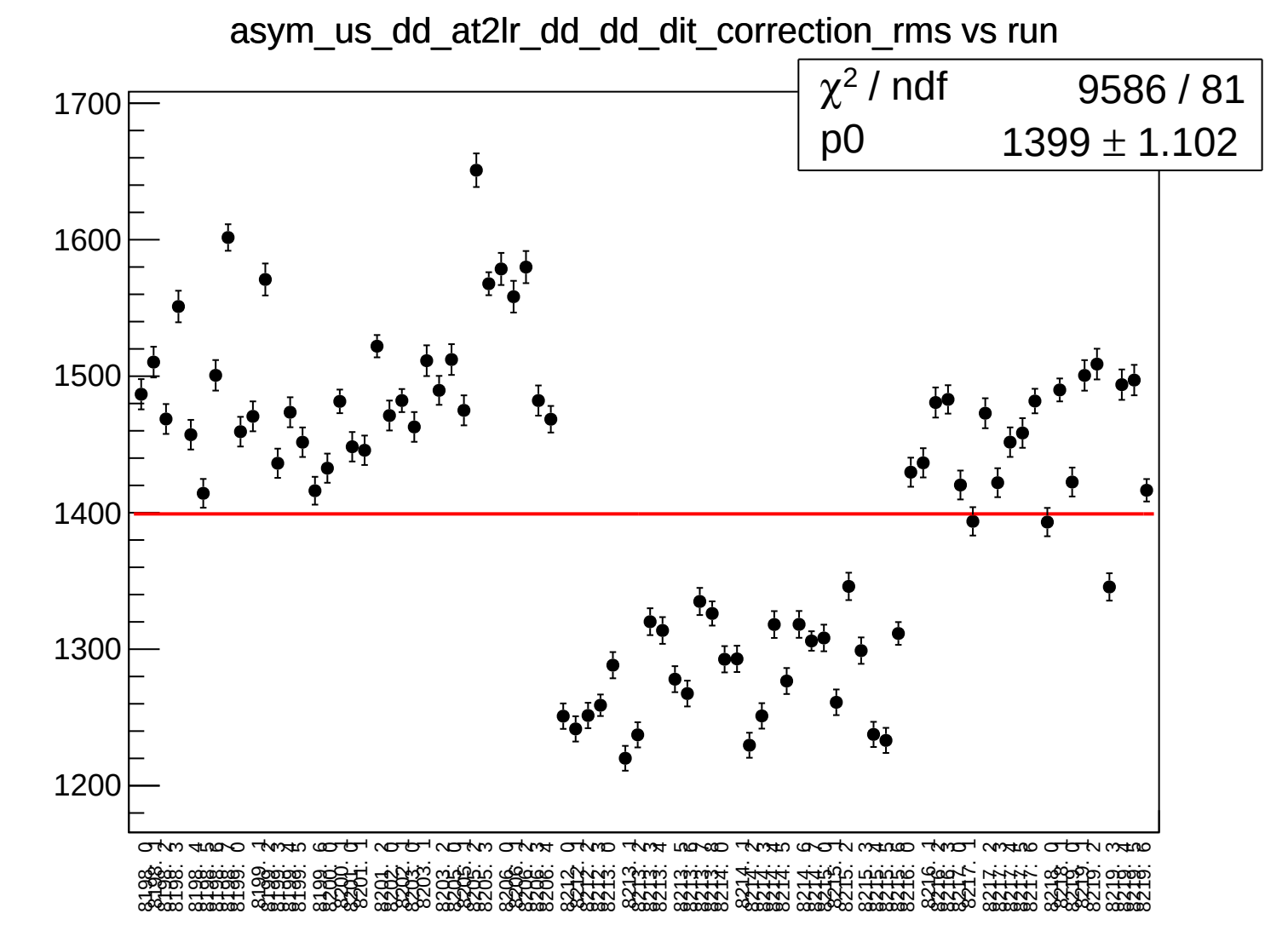

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 87.34 / 81
p0 1460 ± 1762
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −171.9
Std Dev 0
3
2
1
0
−1
−2

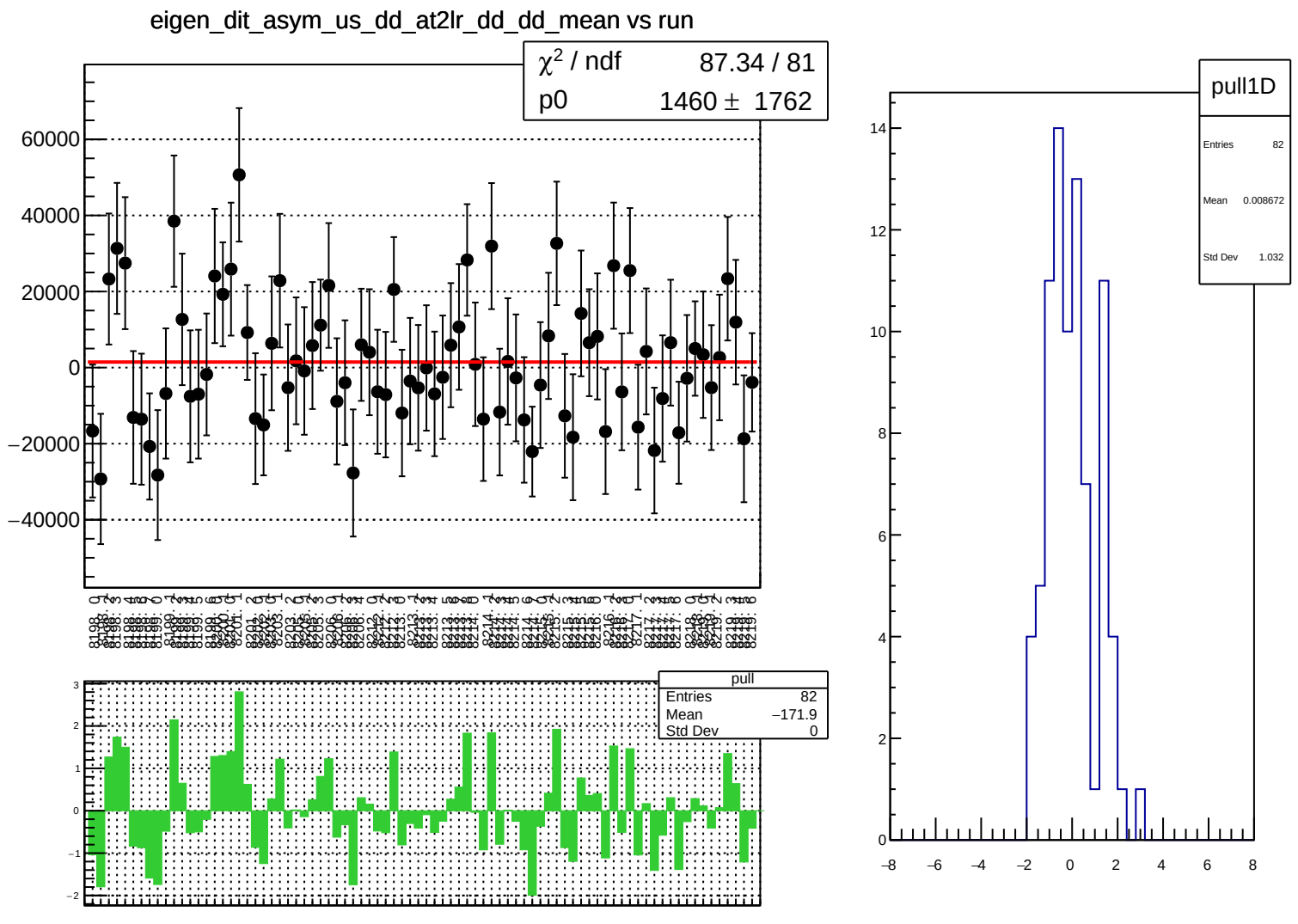

pull1D
Entries 82
Mean 0.008671
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

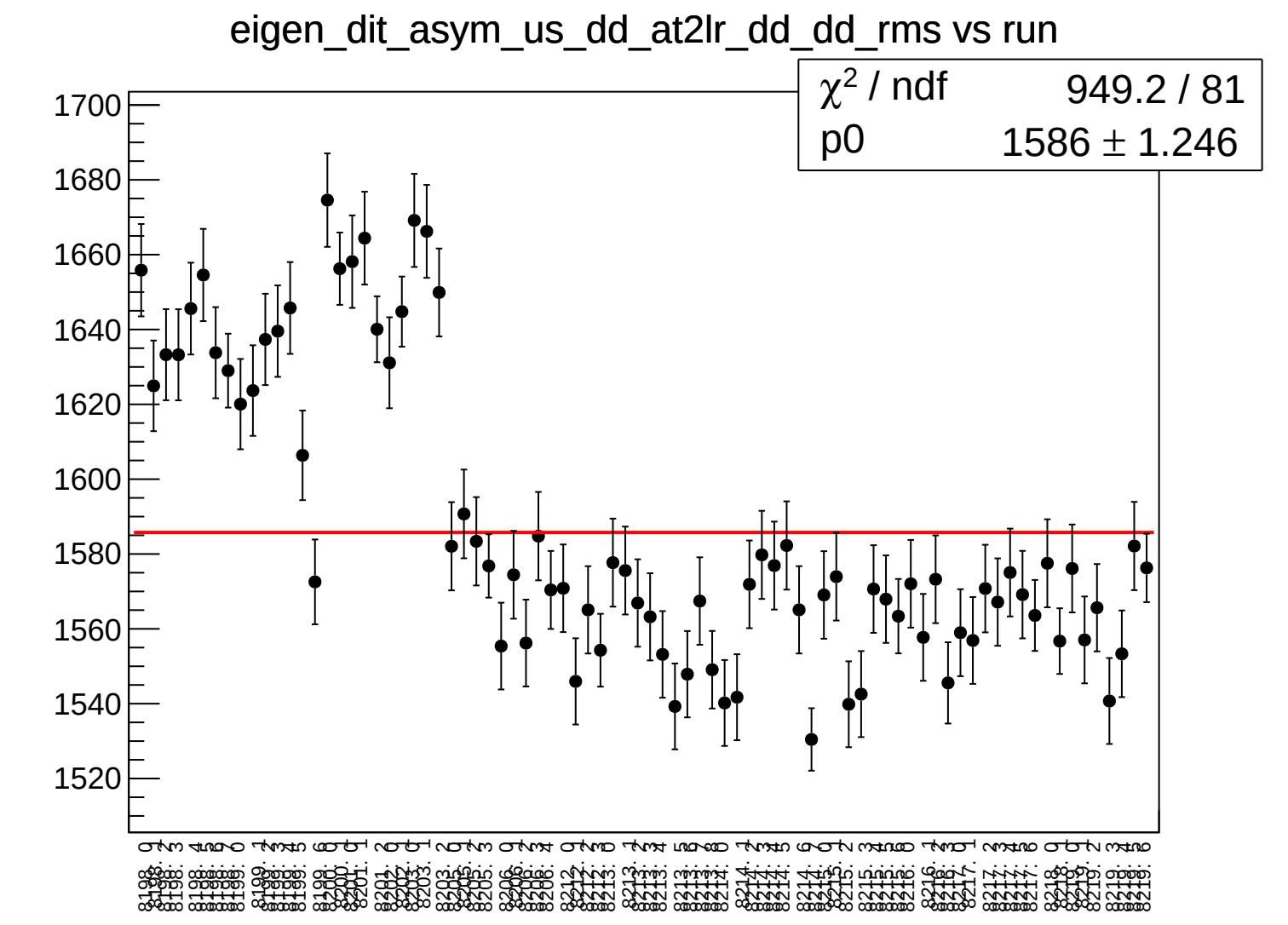
# dit_asym_us_dd_at2lr_dd_dd_rms vs run

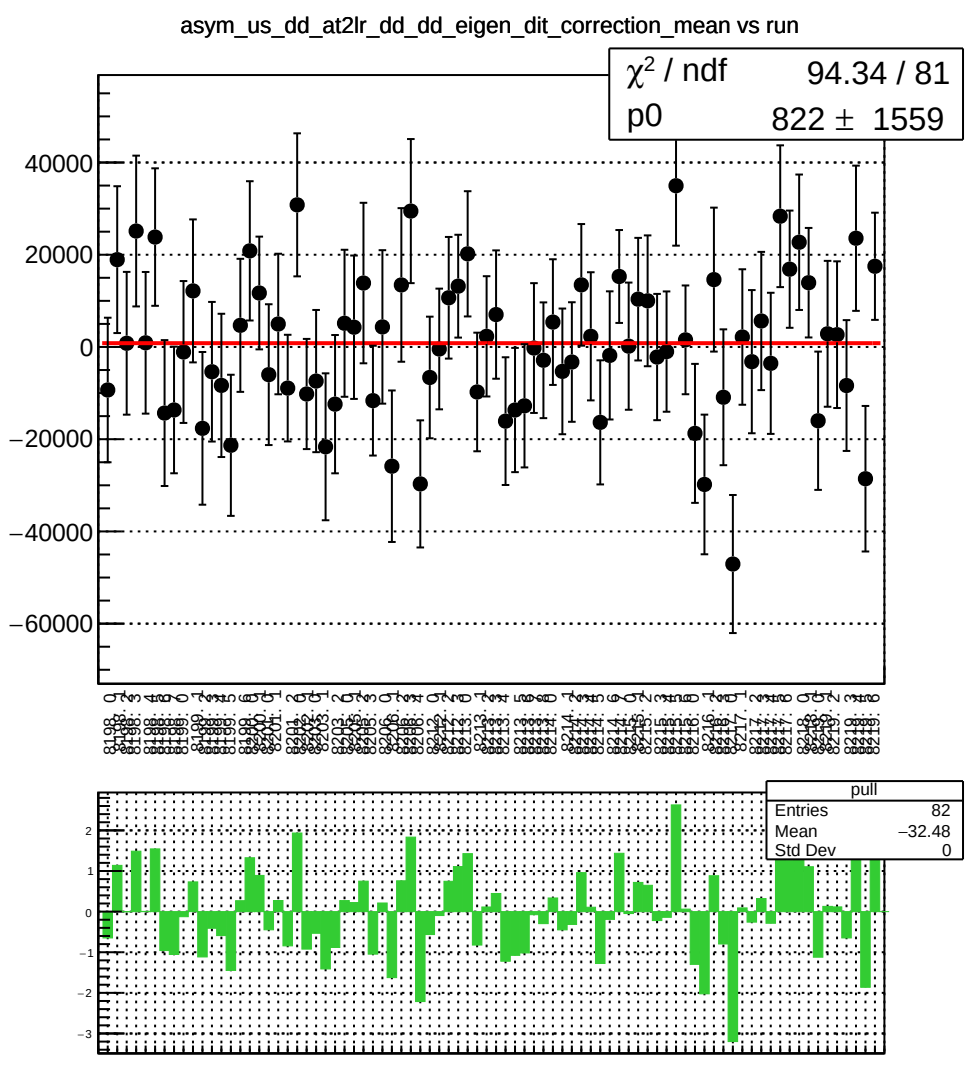


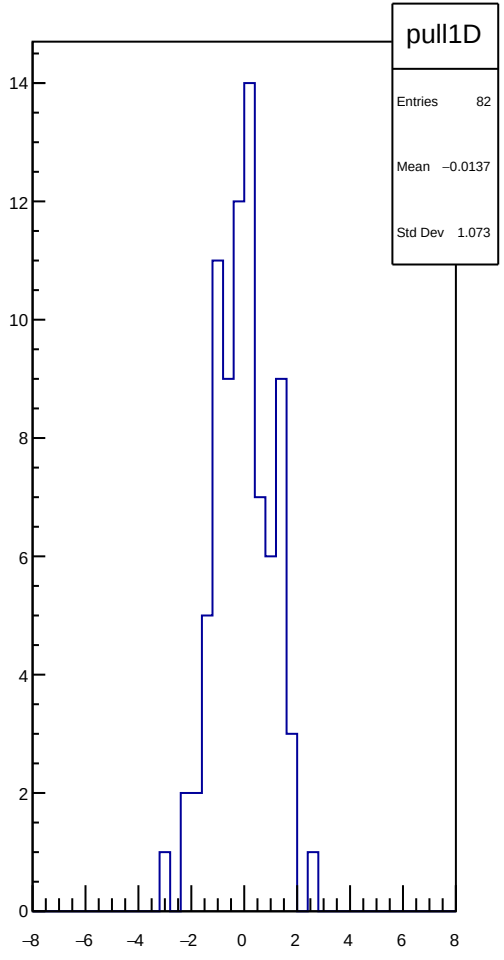

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 94.34 / 81
p0 822 ± 1559
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −32.49
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.0137
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

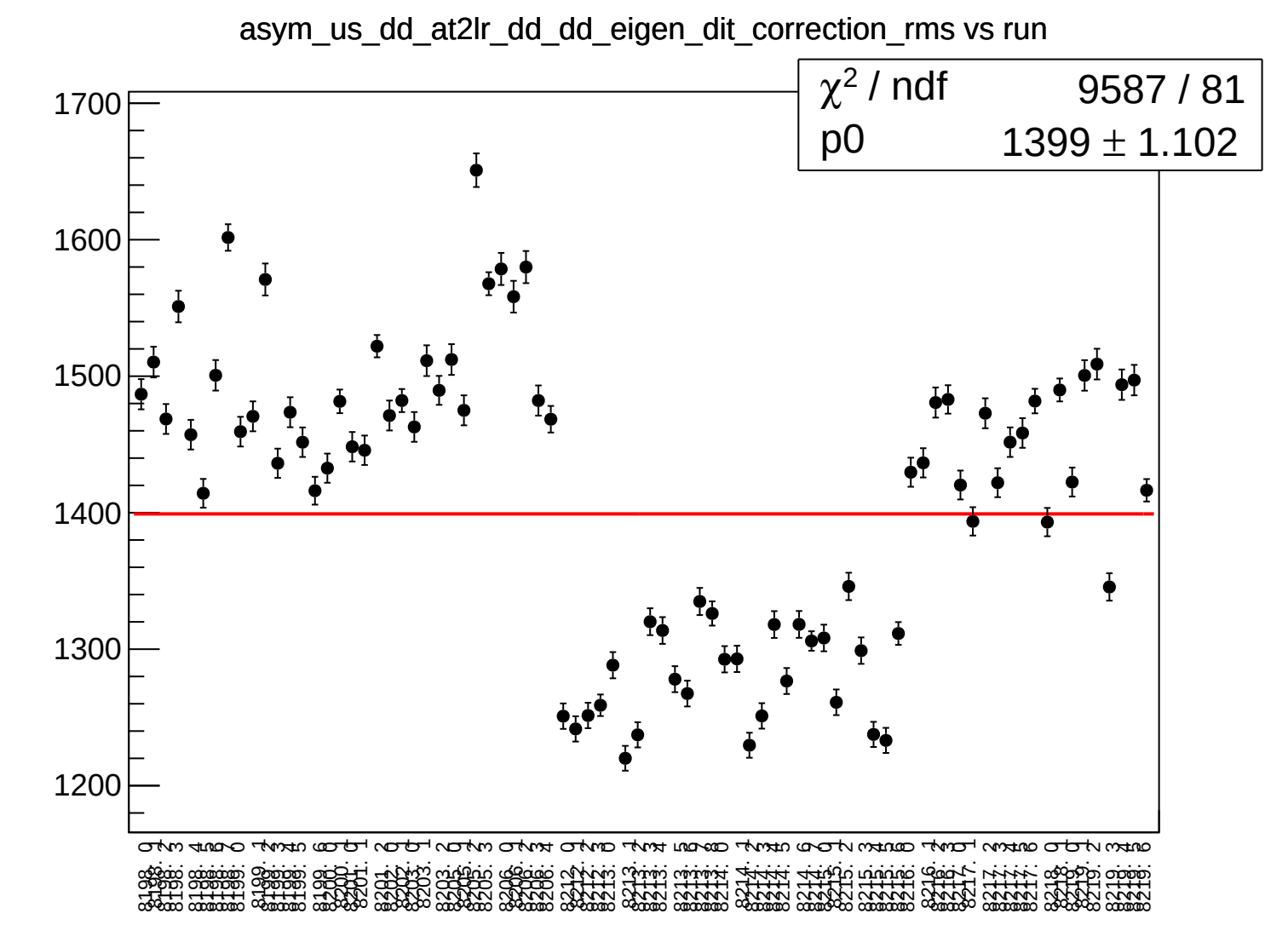

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 9586 / 81
p0 1399 ± 1.102
1700
1600
1500
1400
1300
1200

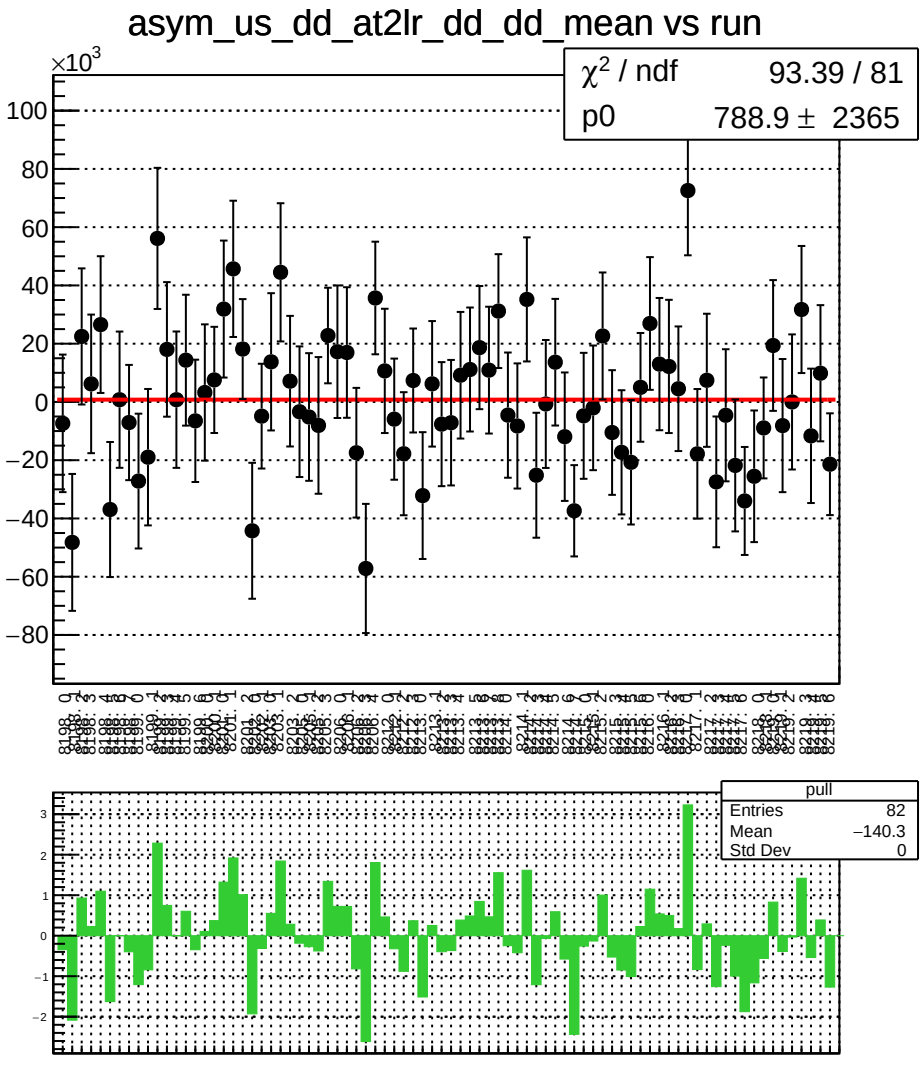

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 87.34 / 81
p0 1460 ± 1762
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −171.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.008672
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

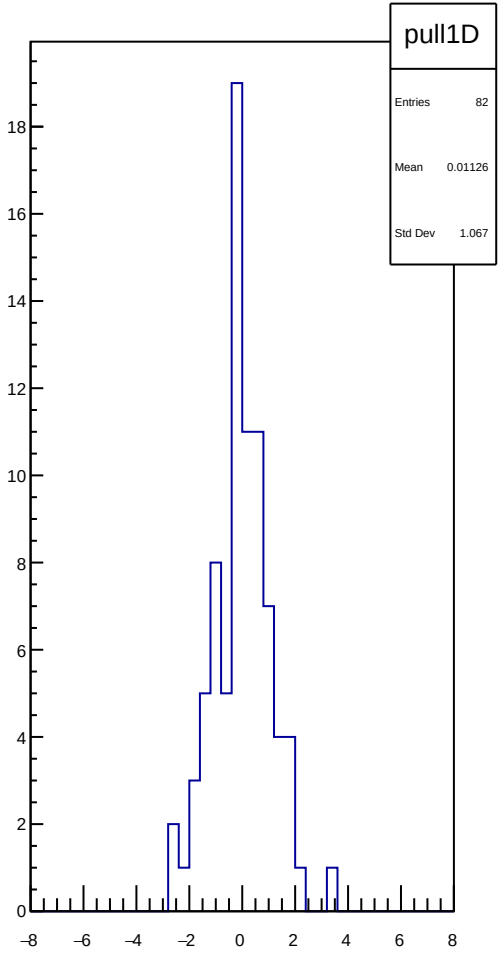

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 949.2 / 81
p0 1586 ± 1.246
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

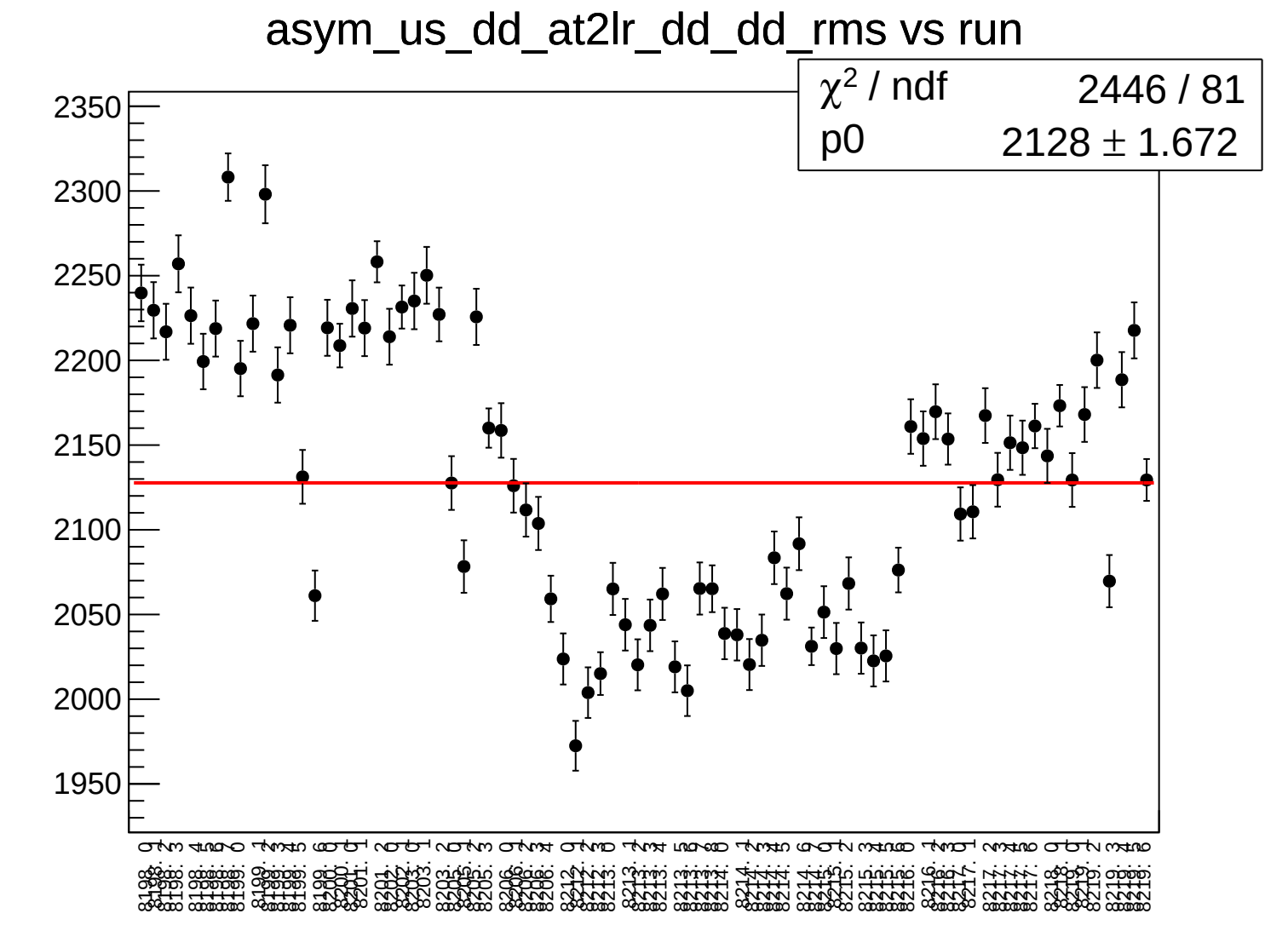

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.34 / 81
p0 822 ± 1559
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −32.48
Std Dev 0
2
1
0
−1
−2
−3

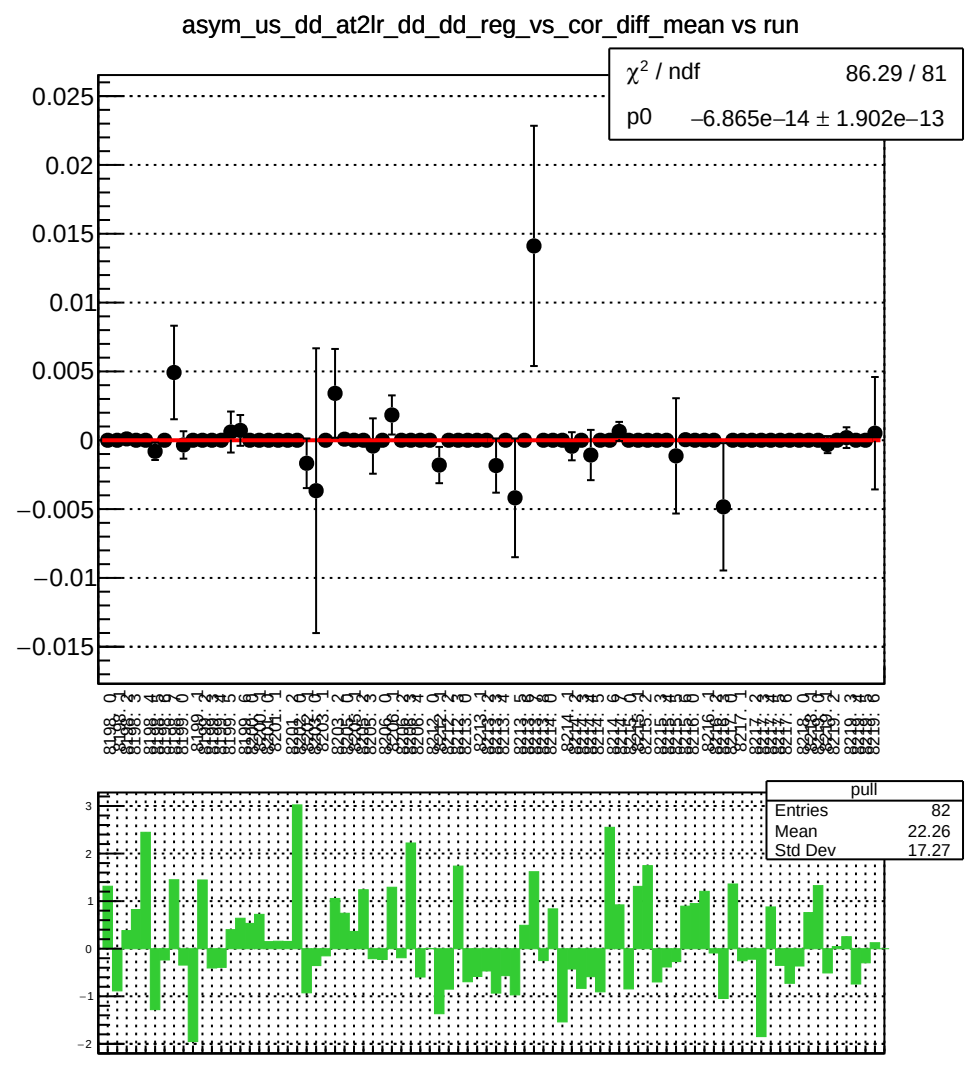

pull1D
Entries 82
Mean −0.0137
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

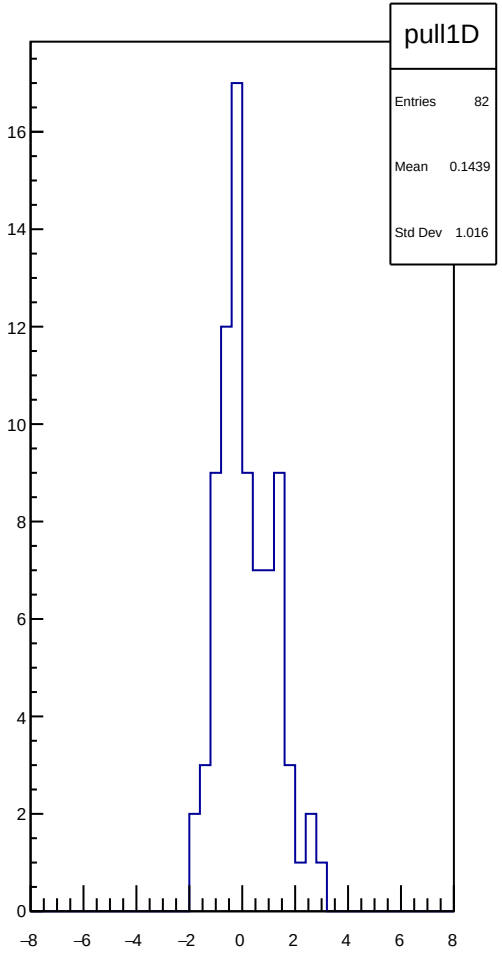

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 9587 / 81
p0 1399 ± 1.102
1700
1600
1500
1400
1300
1200

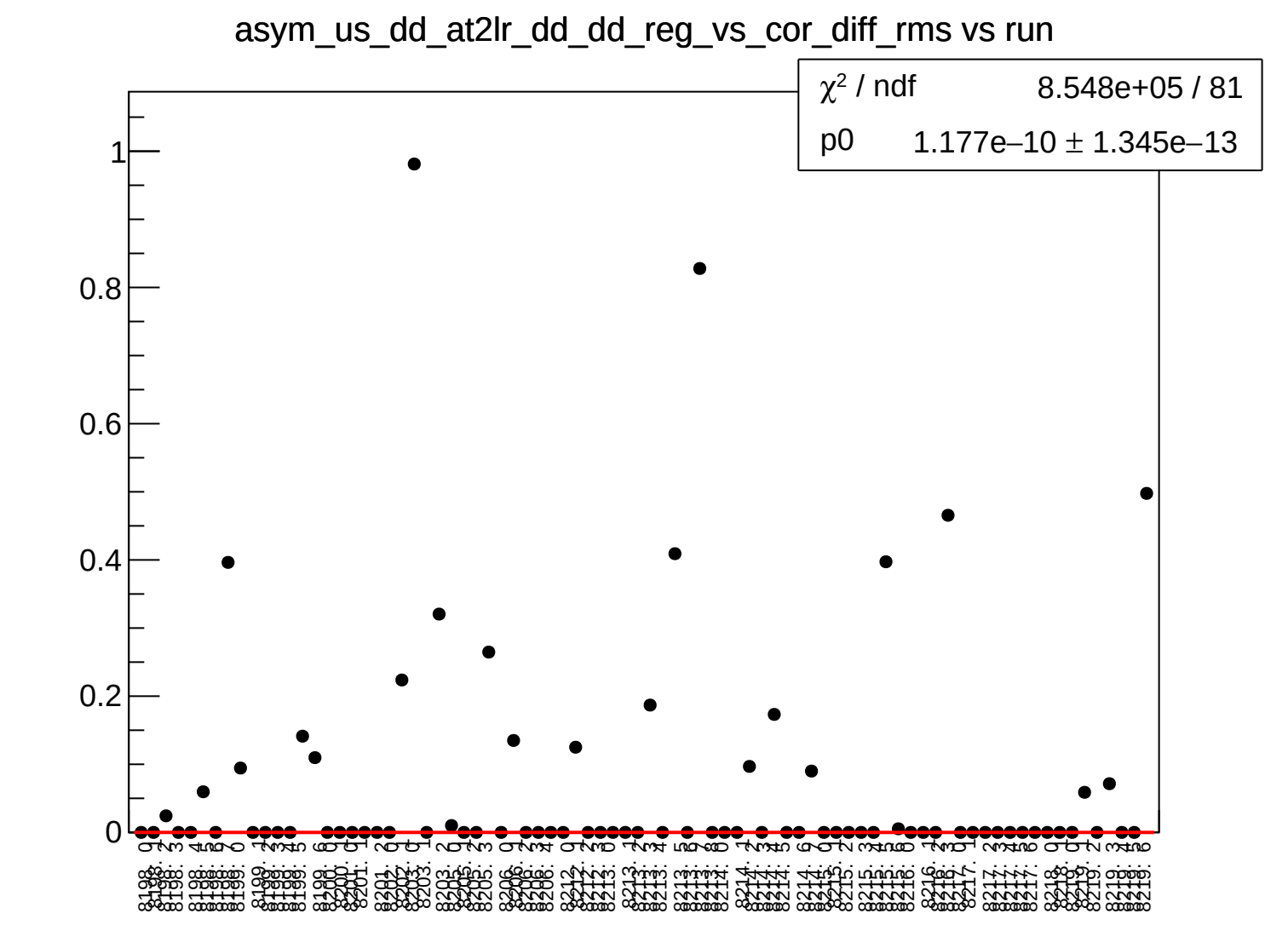

asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 93.39 / 81
p0 788.9 ± 2365
pull
Entries 82
Mean −140.3
Std Dev 0

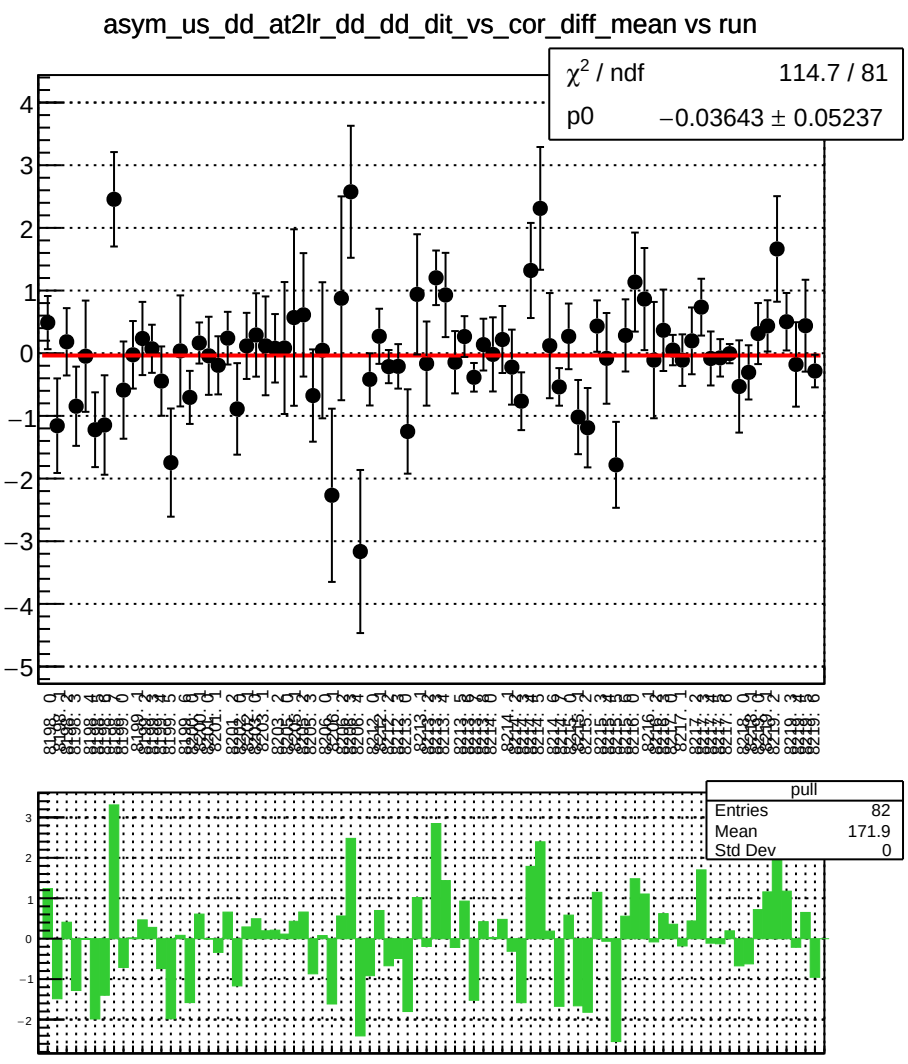

pull1D
Entries 82
Mean 0.01126
Std Dev 1.067

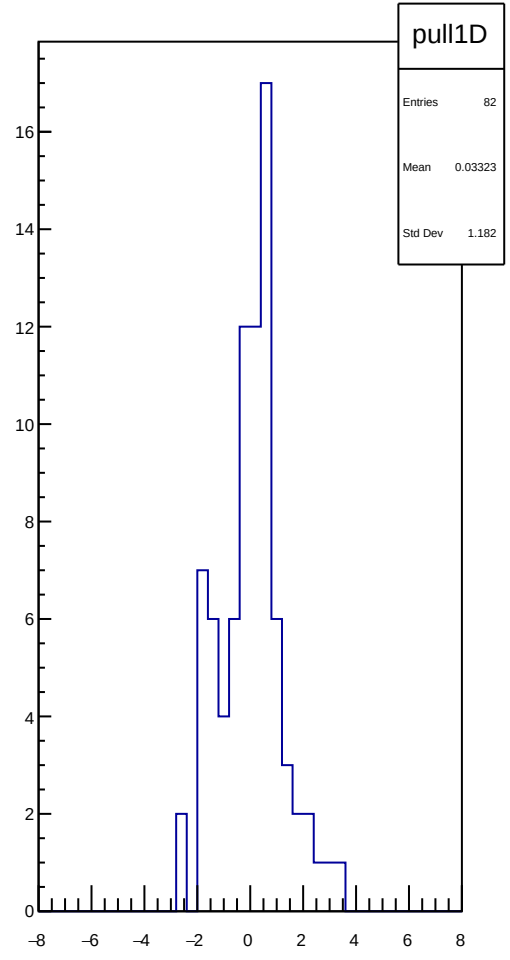

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2446 / 81
p0 2128 ± 1.672
2350
2300
2250
2200
2150
2100
2050
2000
1950

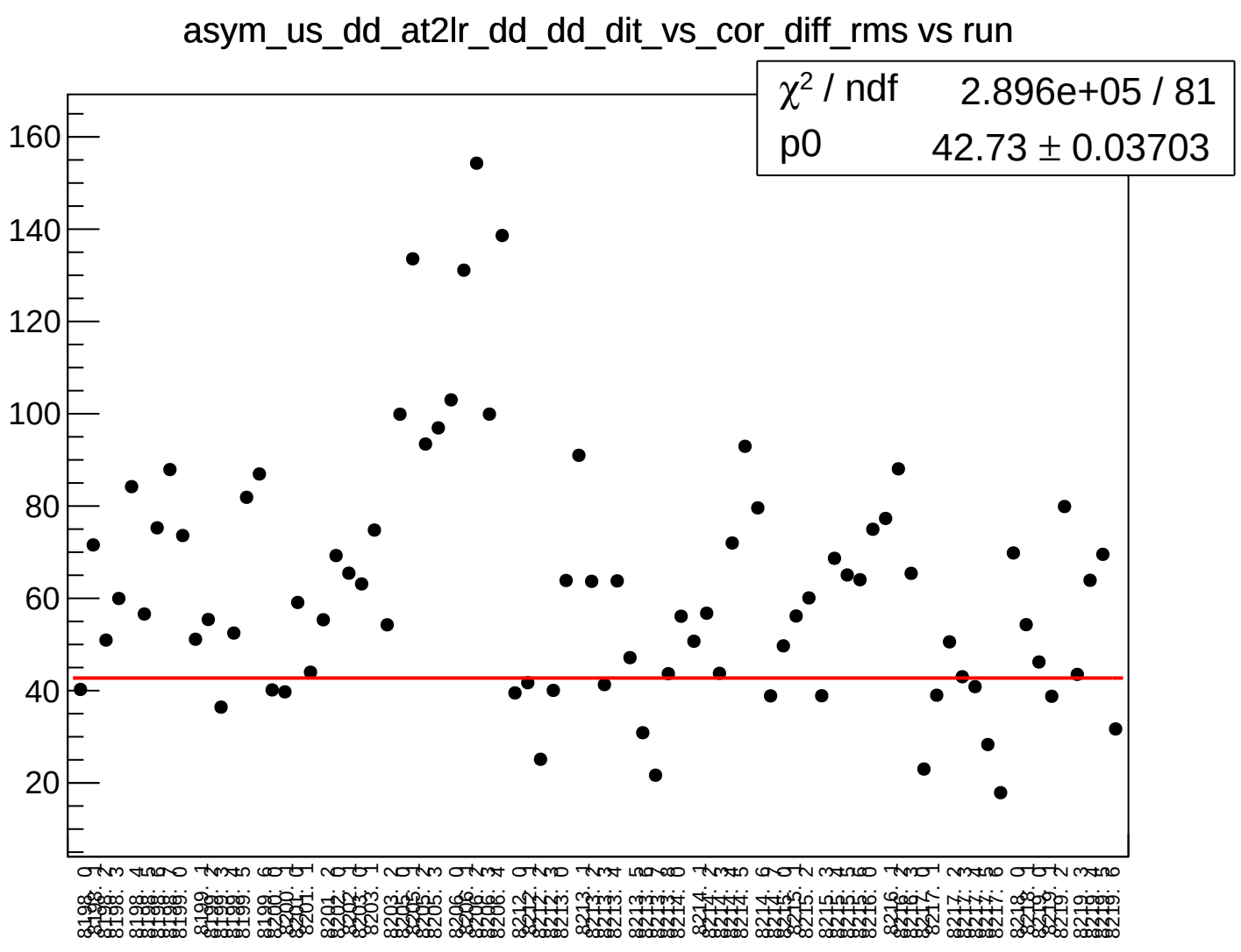

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.29 / 81
p0 −6.865e−14 ± 1.902e−13
pull
Entries 82
Mean 22.26
Std Dev 17.27

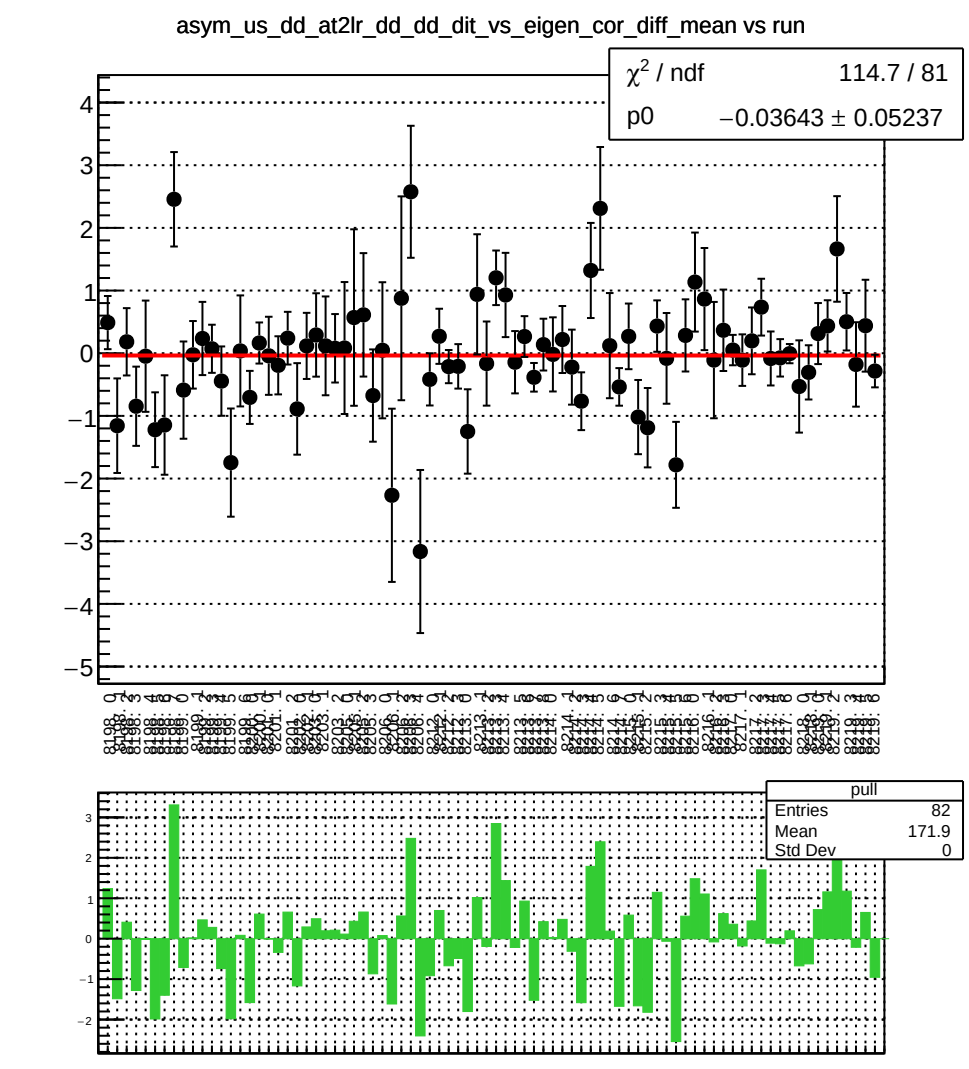

pull1D
Entries 82
Mean 0.1439
Std Dev 1.016

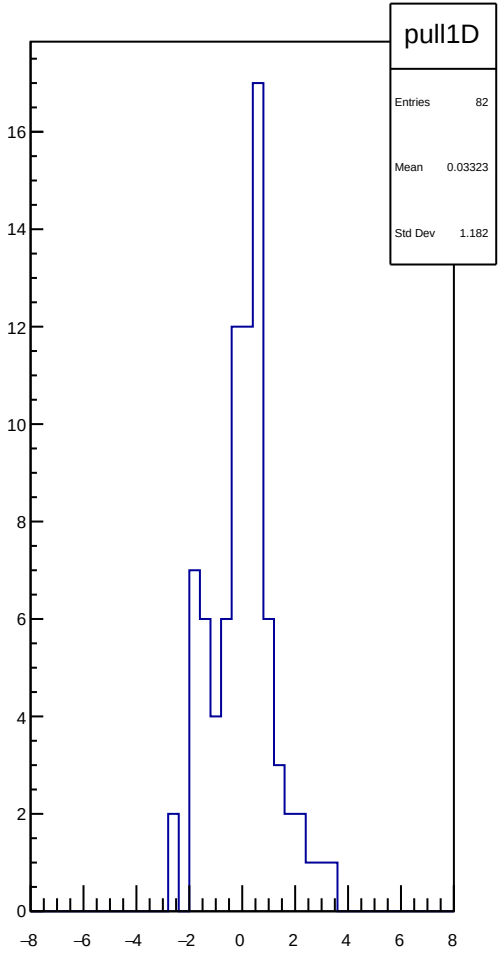

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.548e+05 / 81
p0 1.177e−10 ± 1.345e−13
1
0.8
0.6
0.4
0.2
0

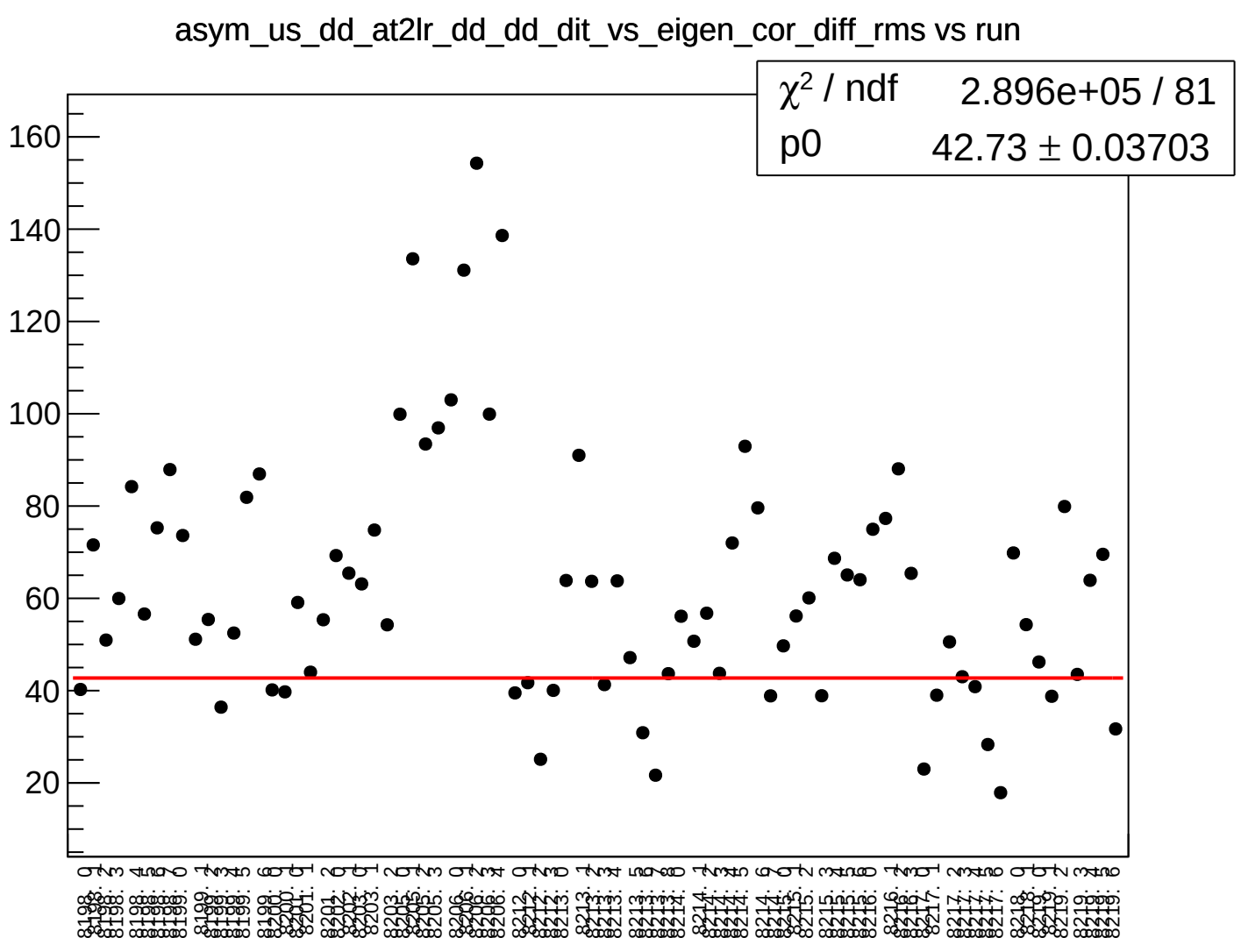

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 114.7 / 81
p0 −0.03643 ± 0.05237
pull
Entries 82
Mean 171.9
Std Dev 0

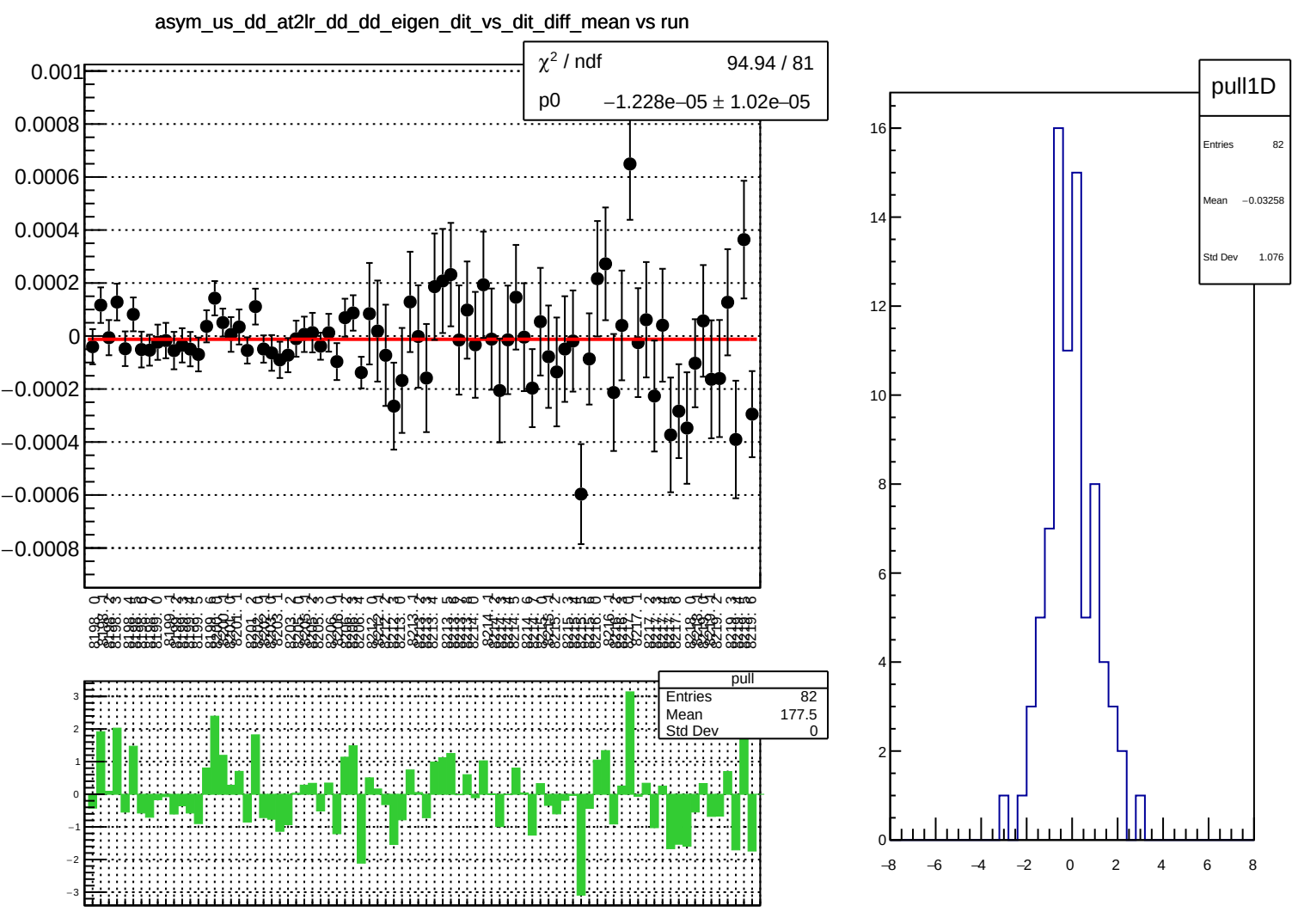

pull1D
Entries 82
Mean 0.03323
Std Dev 1.182

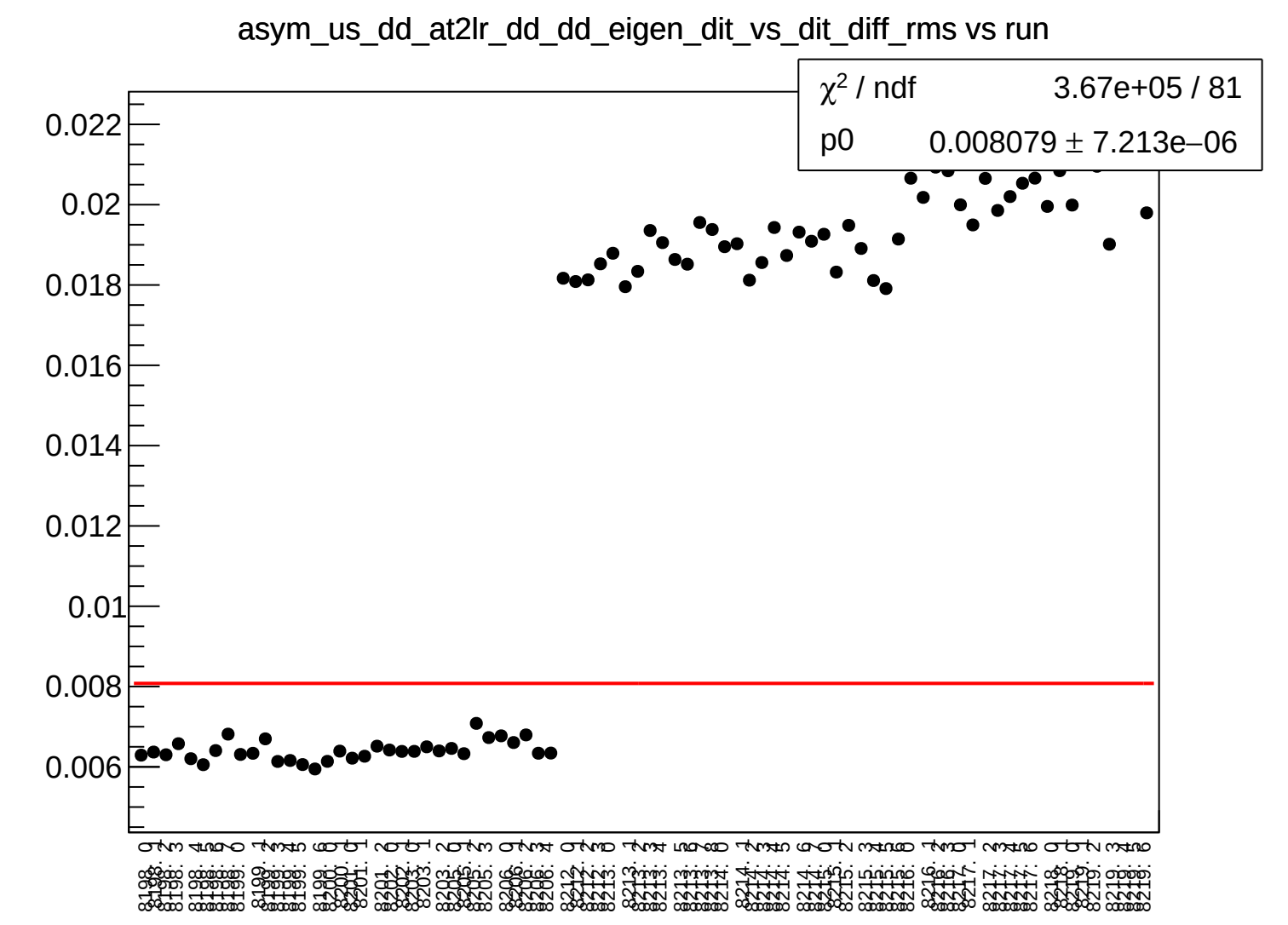

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.896e+05 / 81
p0 42.73 ± 0.03703
160
140
120
100
80
60
40
20

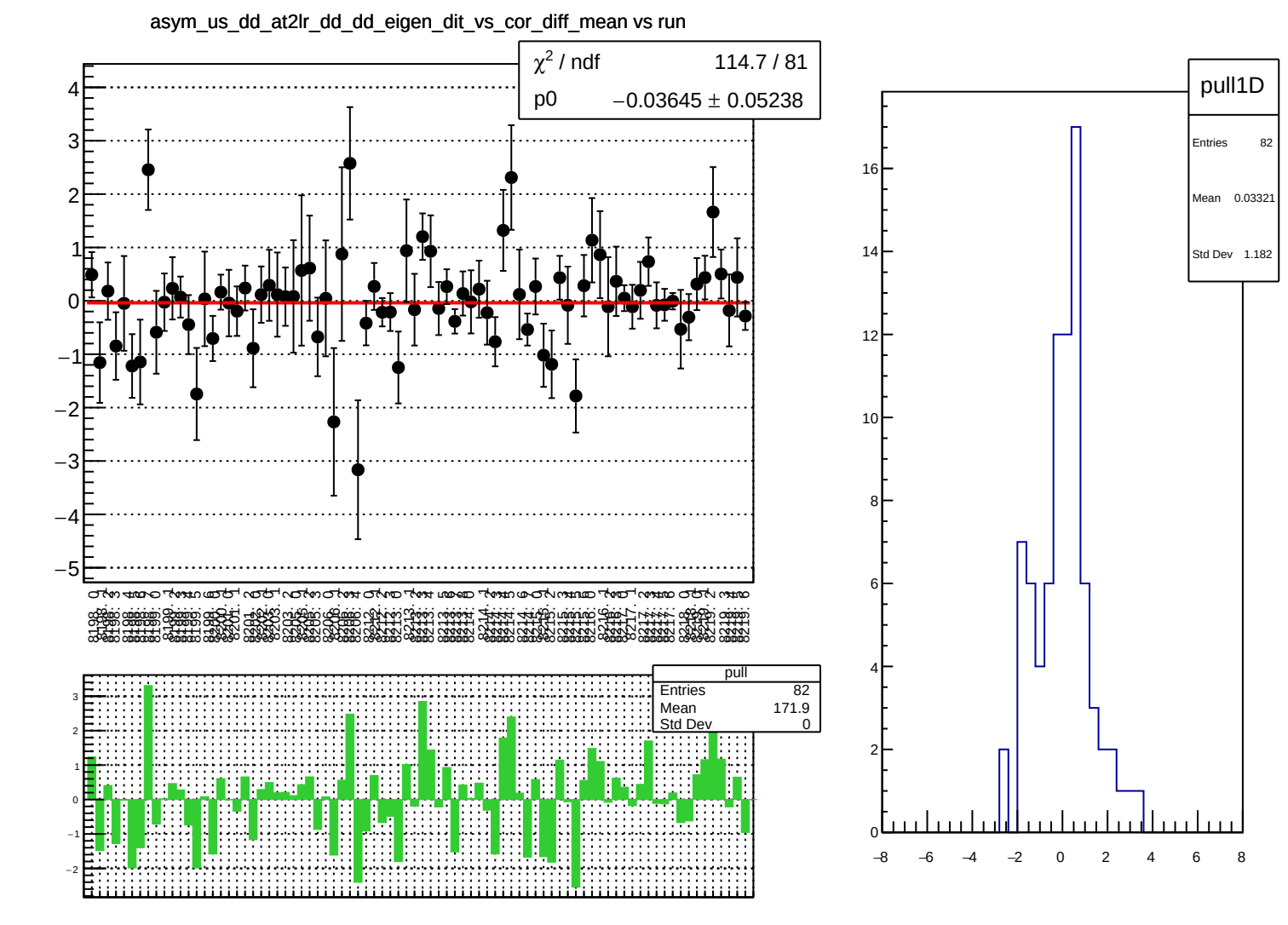

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.7 / 81
p0 −0.03643 ± 0.05237
pull
Entries 82
Mean 171.9
Std Dev 0

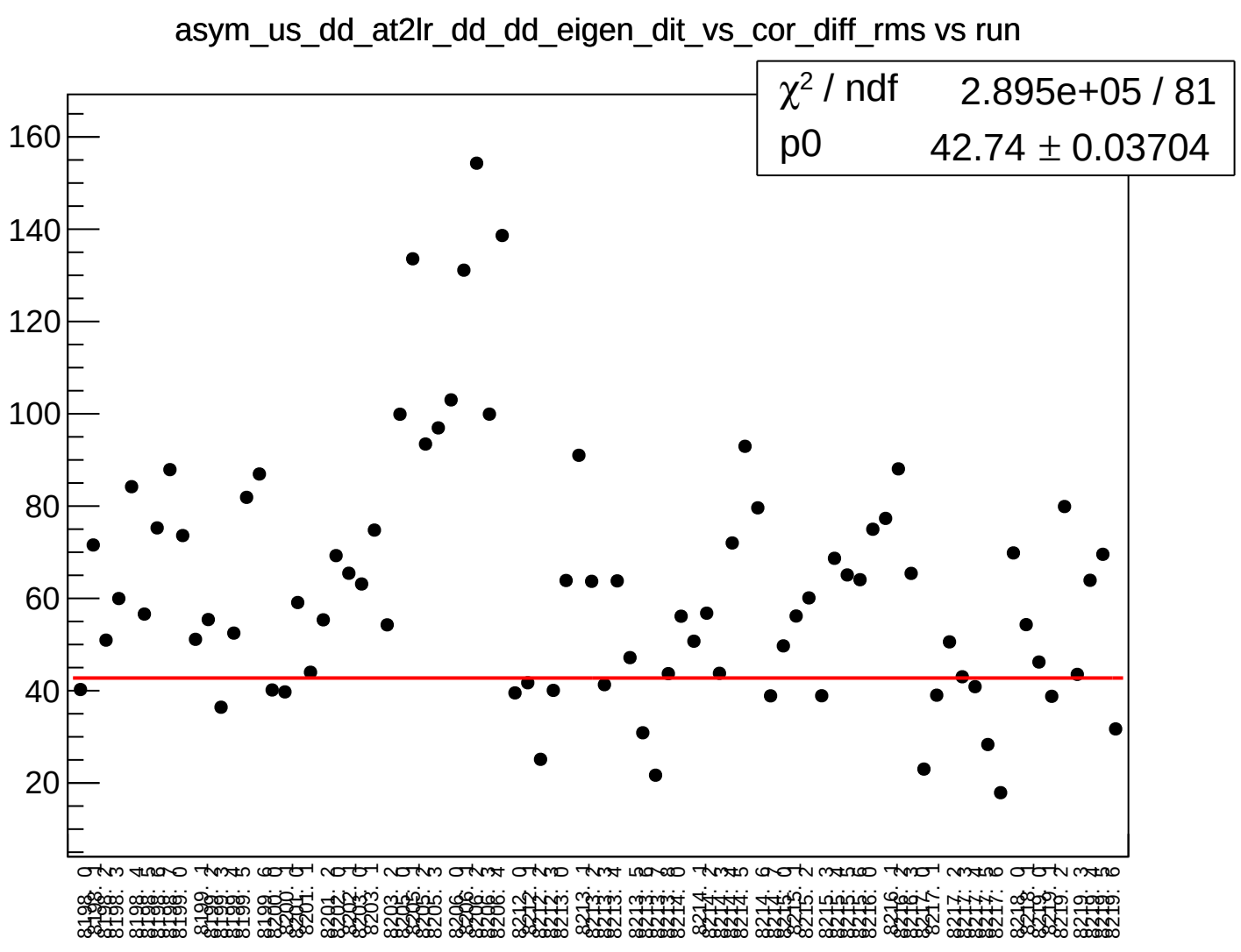

pull1D
Entries 82
Mean 0.03323
Std Dev 1.182

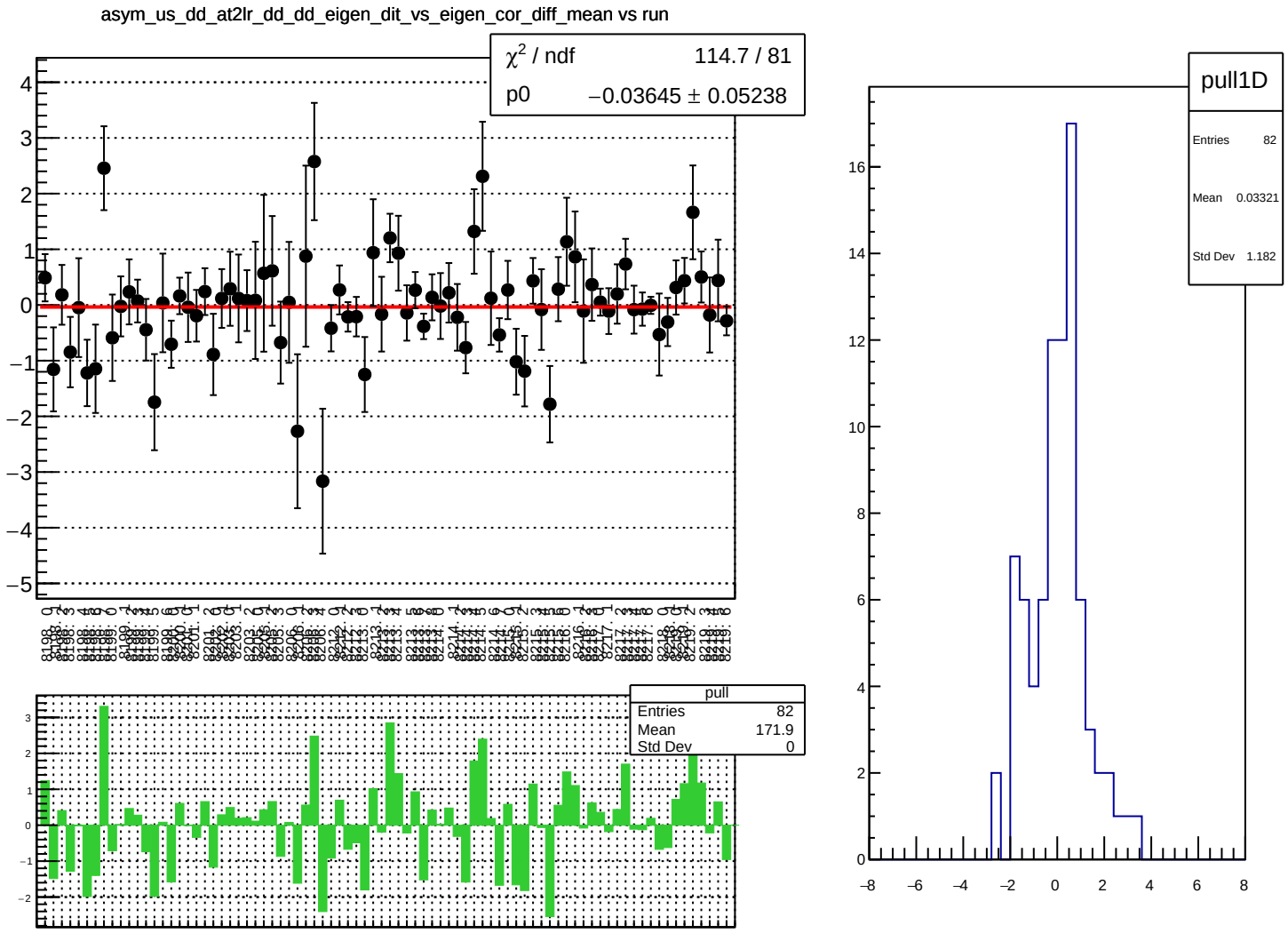

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.896e+05 / 81
p0 42.73 ± 0.03703
160
140
120
100
80
60
40
20

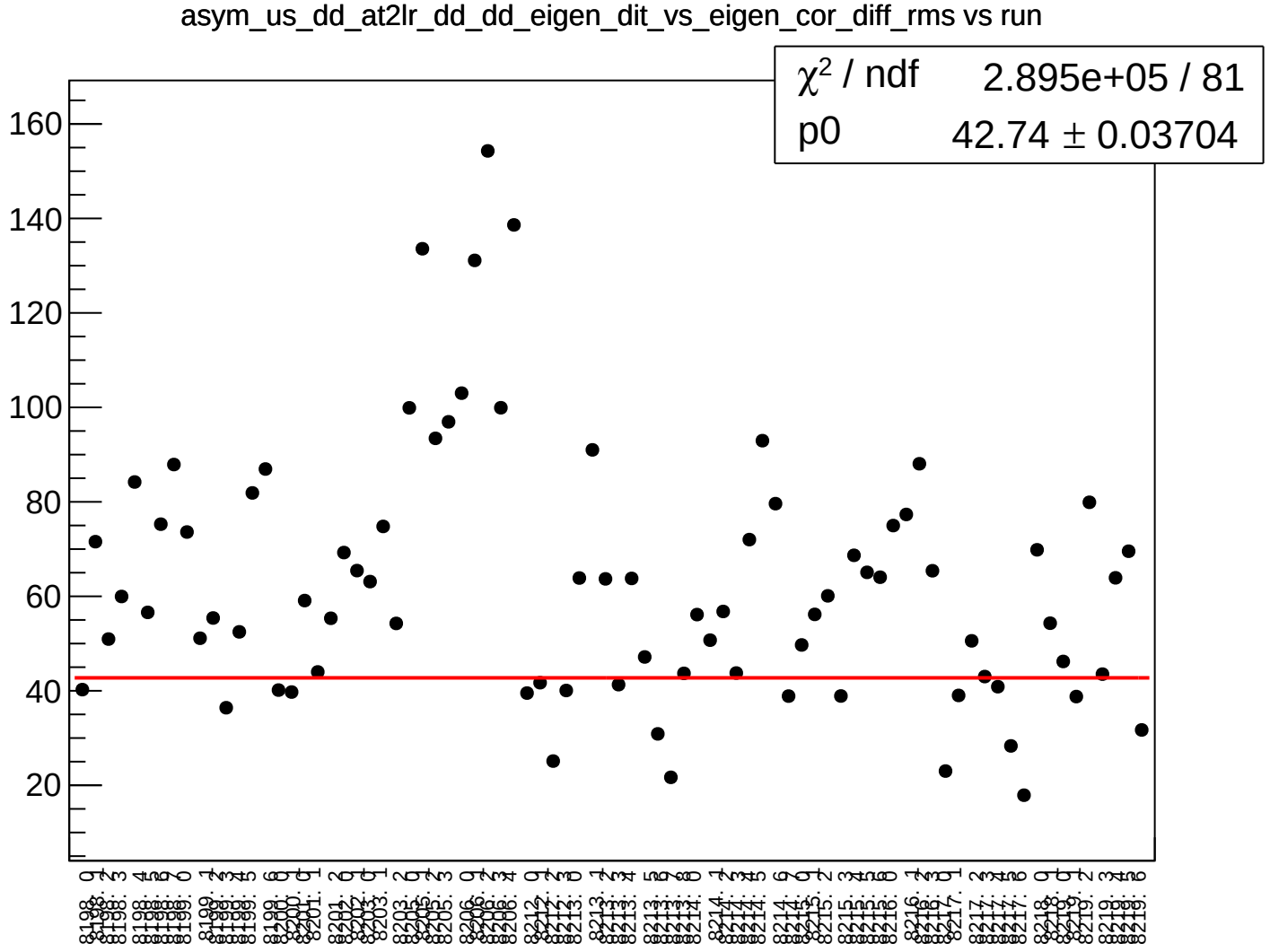

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 94.94 / 81
p0 −1.228e−05 ± 1.02e−05
pull
Entries 82
Mean 177.5
Std Dev 0
pull1D
Entries 82
Mean −0.03258
Std Dev 1.076

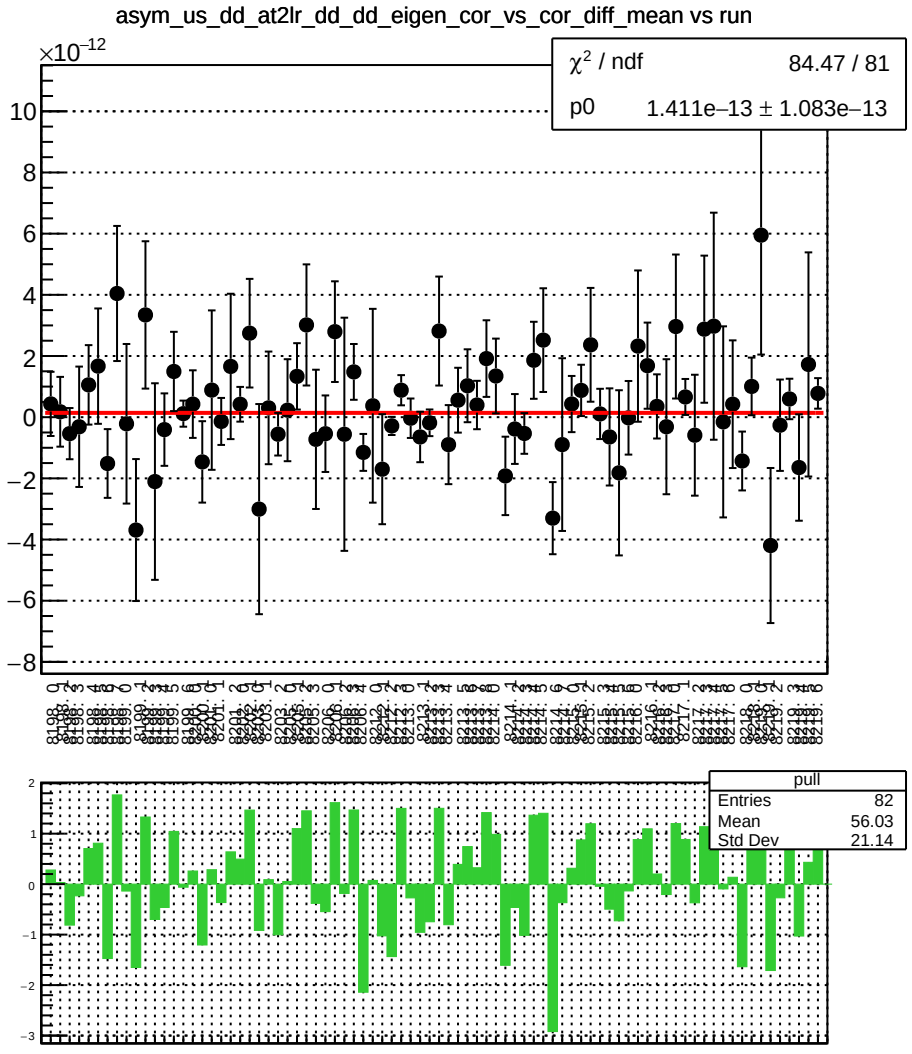

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.67e+05 / 81
p0 0.008079 ± 7.213e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

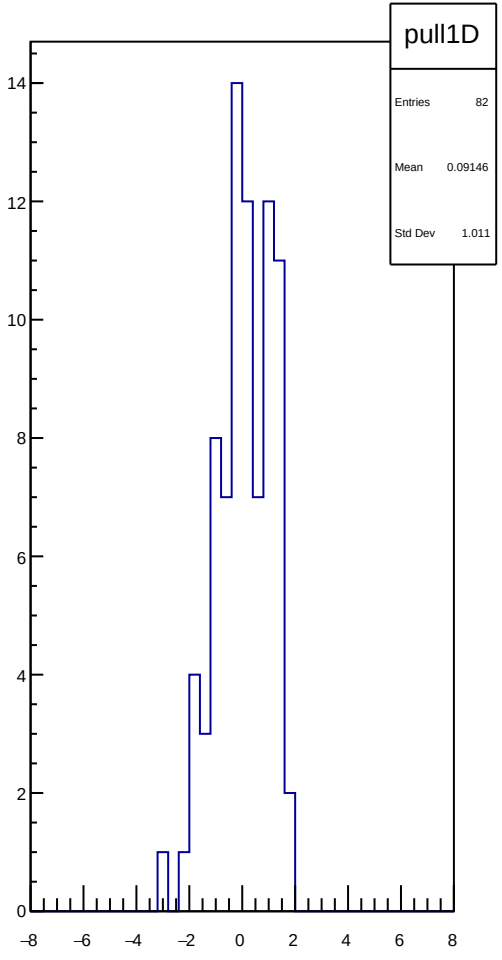

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114.7 / 81
p0 −0.03645 ± 0.05238
pull
Entries 82
Mean 171.9
Std Dev 0
pull1D
Entries 82
Mean 0.03321
Std Dev 1.182

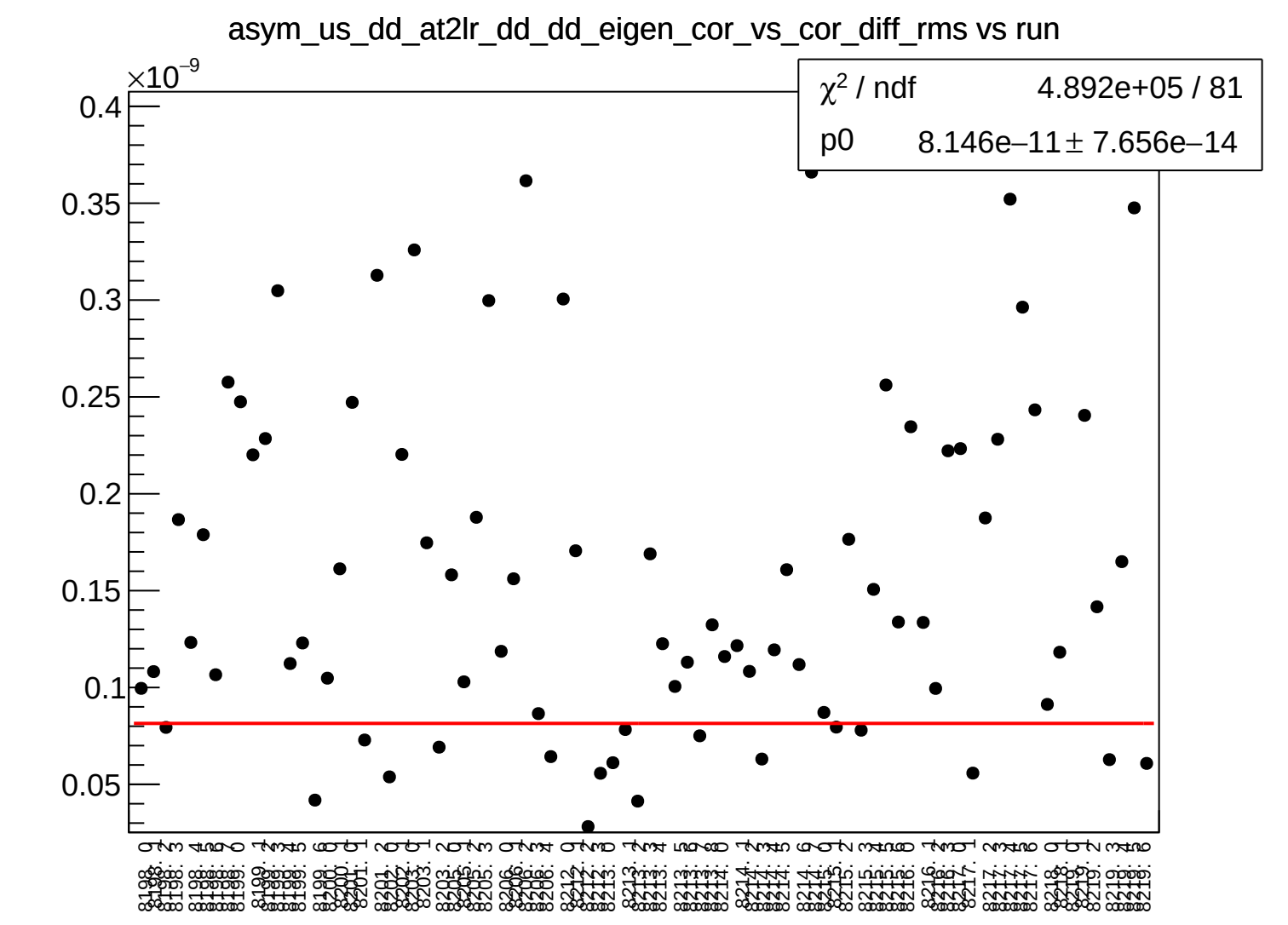

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.895e+05 / 81
p0 42.74 ± 0.03704
160
140
120
100
80
60
40
20

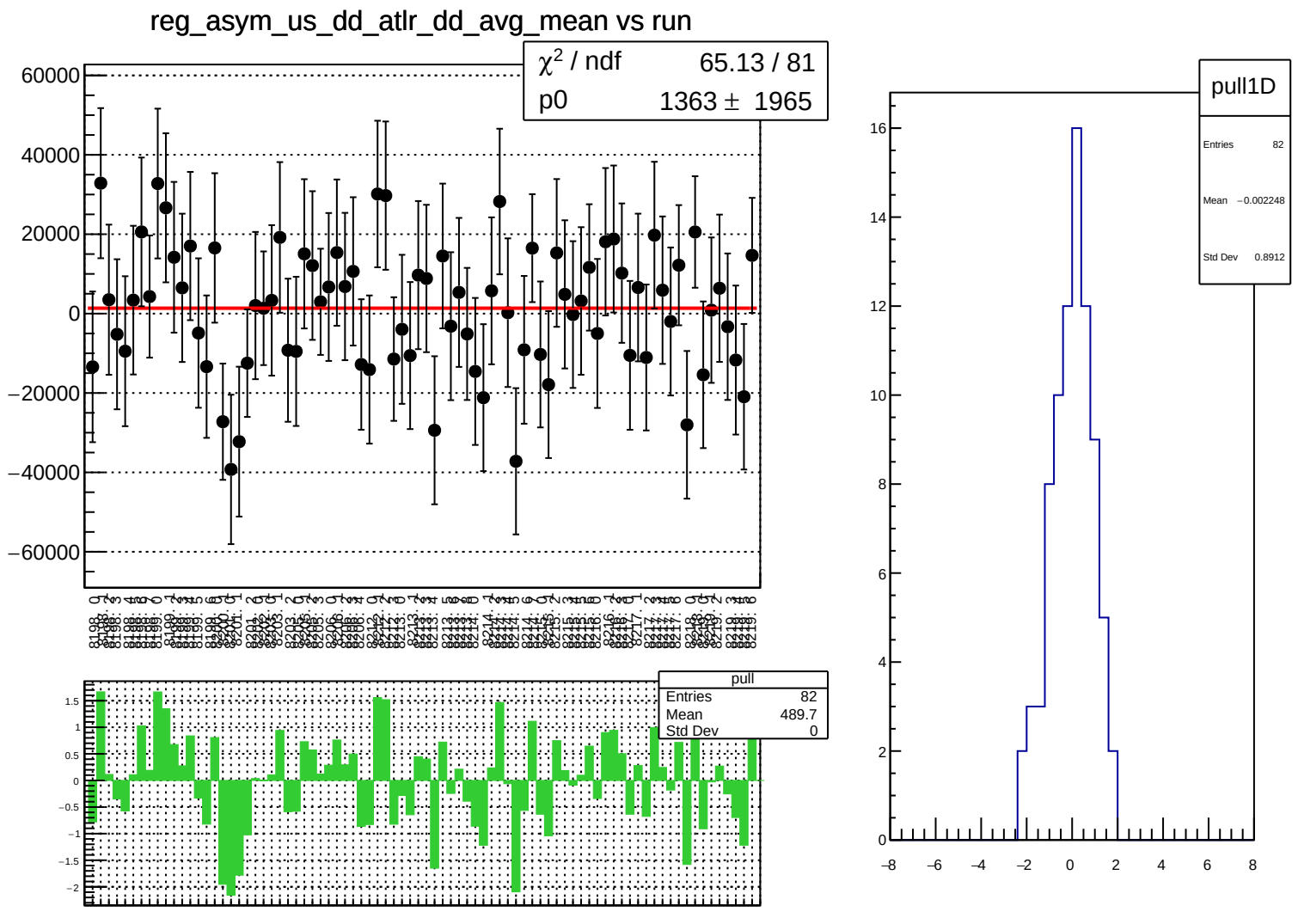

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.7 / 81
p0 −0.03645 ± 0.05238
pull
Entries 82
Mean 171.9
Std Dev 0
pull1D
Entries 82
Mean 0.03321
Std Dev 1.182

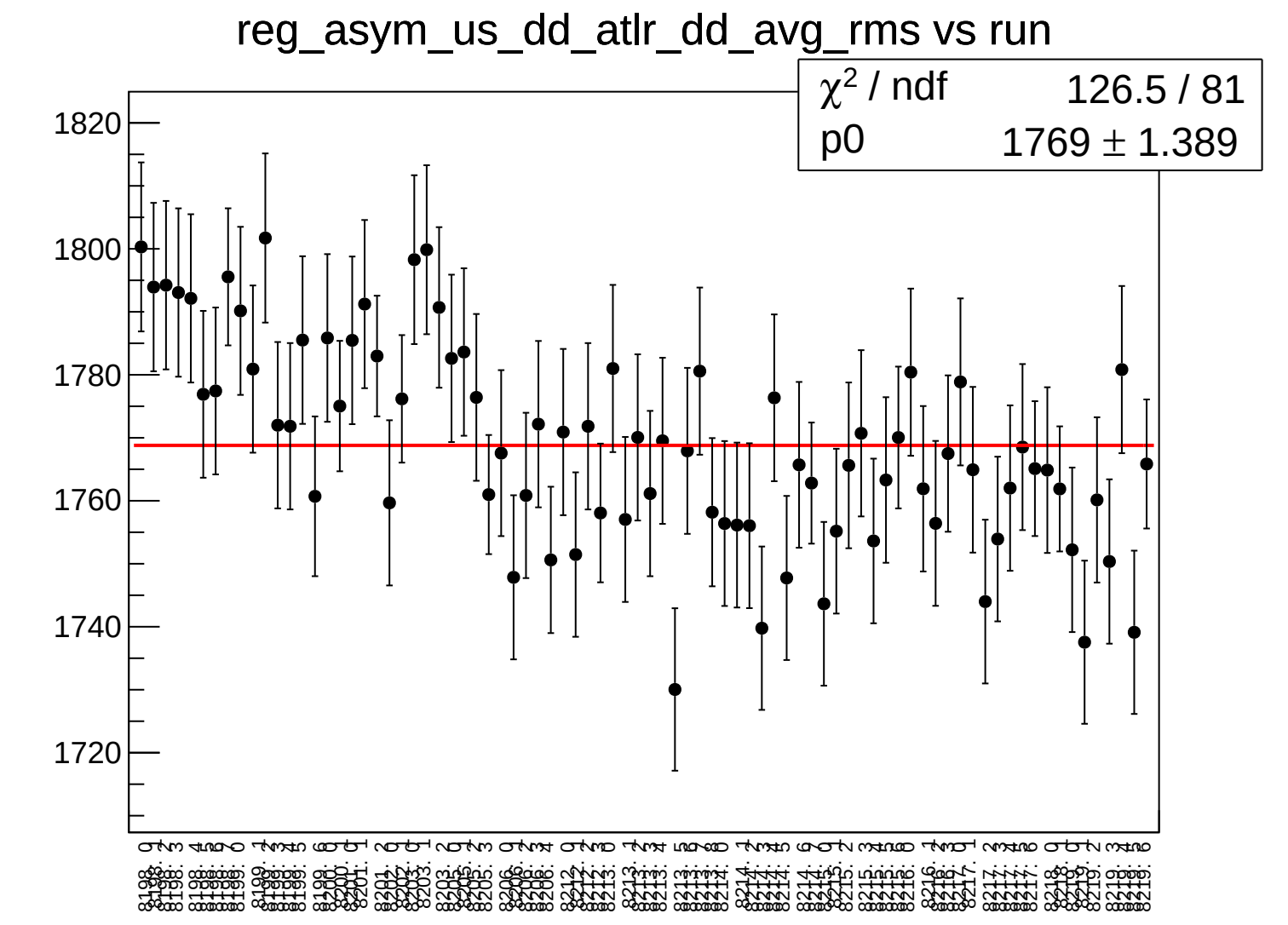

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.895e+05 / 81
p0 42.74 ± 0.03704
160
140
120
100
80
60
40
20

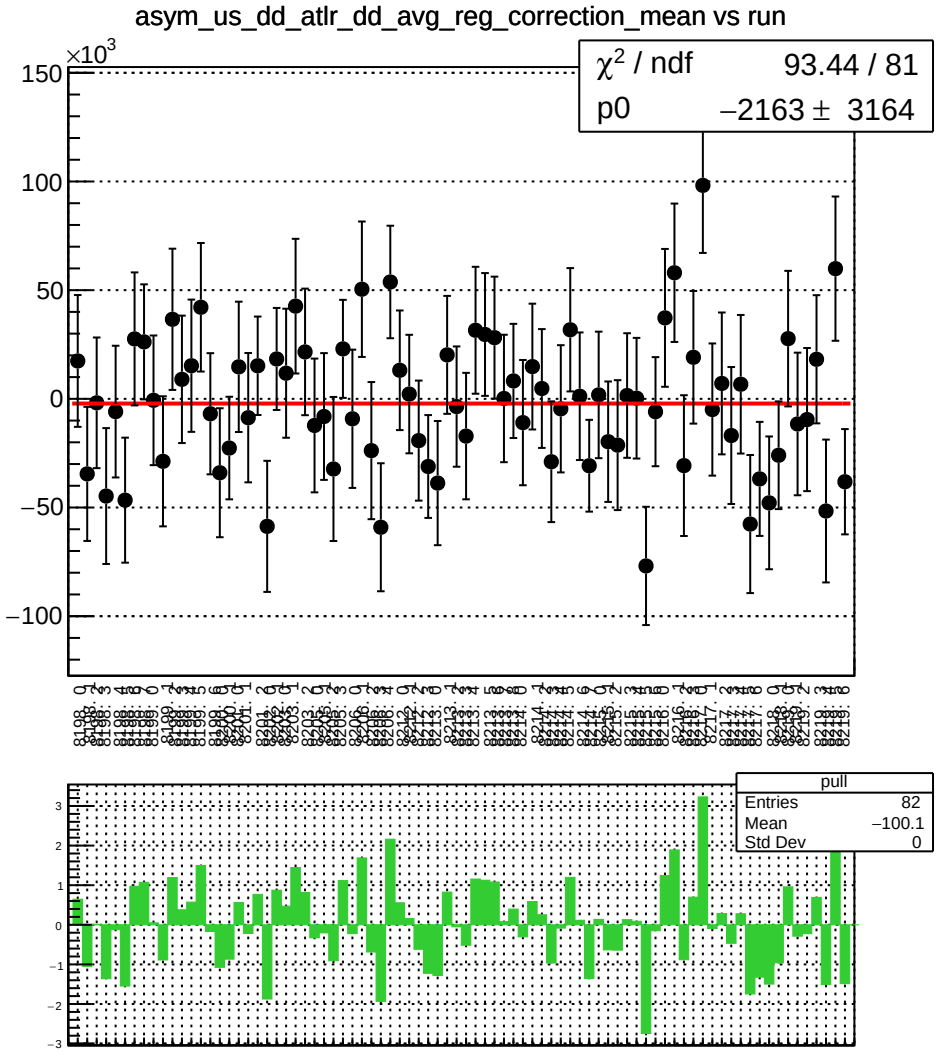

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.47 / 81
p0 1.411e−13 ± 1.083e−13
pull
Entries 82
Mean 56.03
Std Dev 21.14

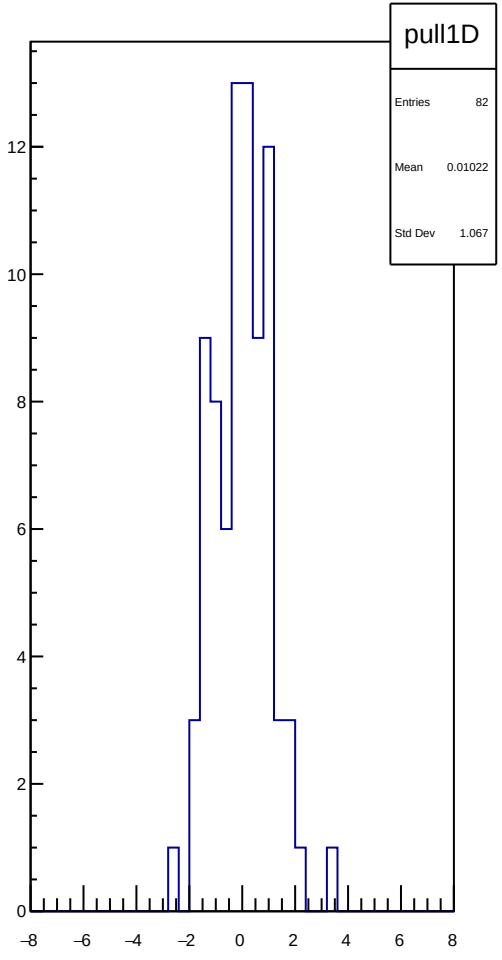

pull1D
Entries 82
Mean 0.09146
Std Dev 1.011

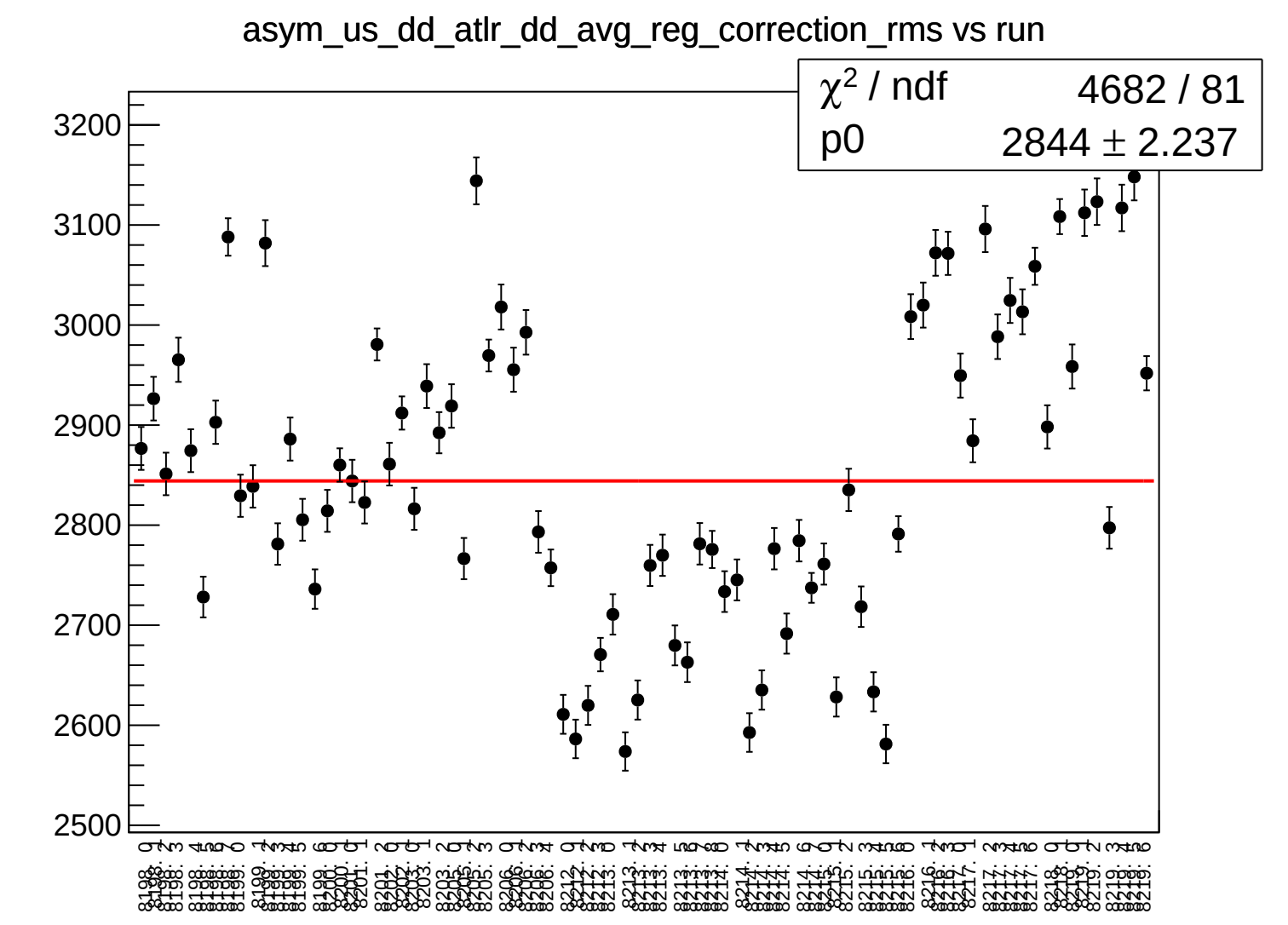

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.892e+05 / 81
p0 8.146e−11 ± 7.656e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

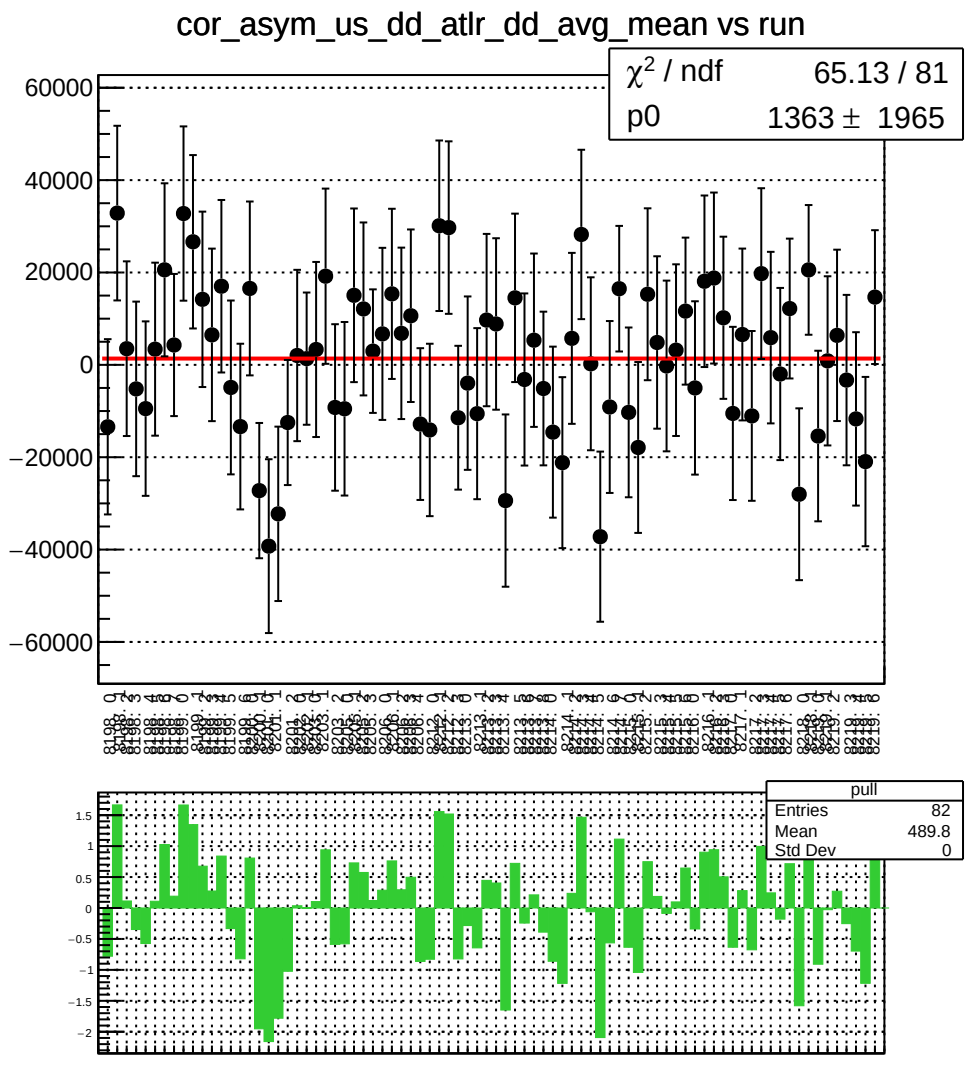

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 65.13 / 81
p0 1363 ± 1965
pull
Entries 82
Mean 489.7
Std Dev 0
pull1D
Entries 82
Mean −0.002248
Std Dev 0.8912

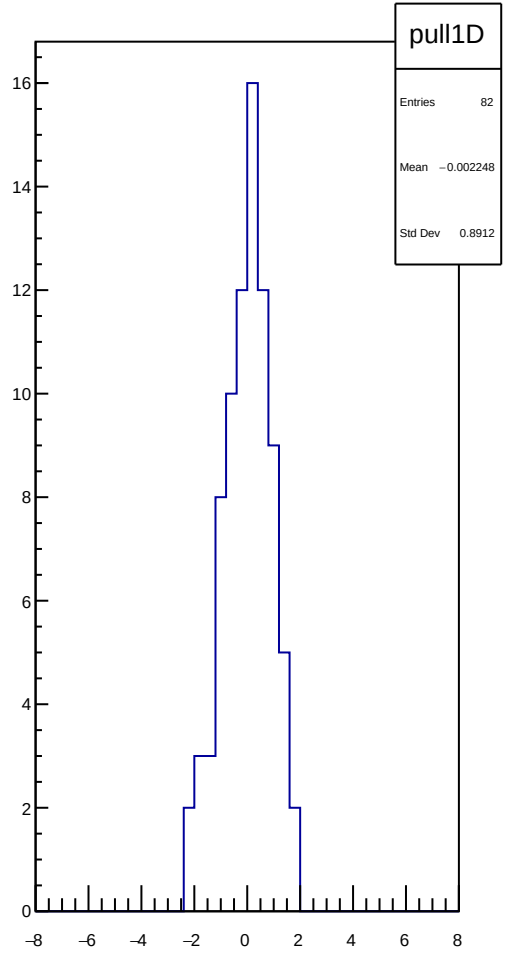

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 126.5 / 81
p0 1769 ± 1.389
1820
1800
1780
1760
1740
1720

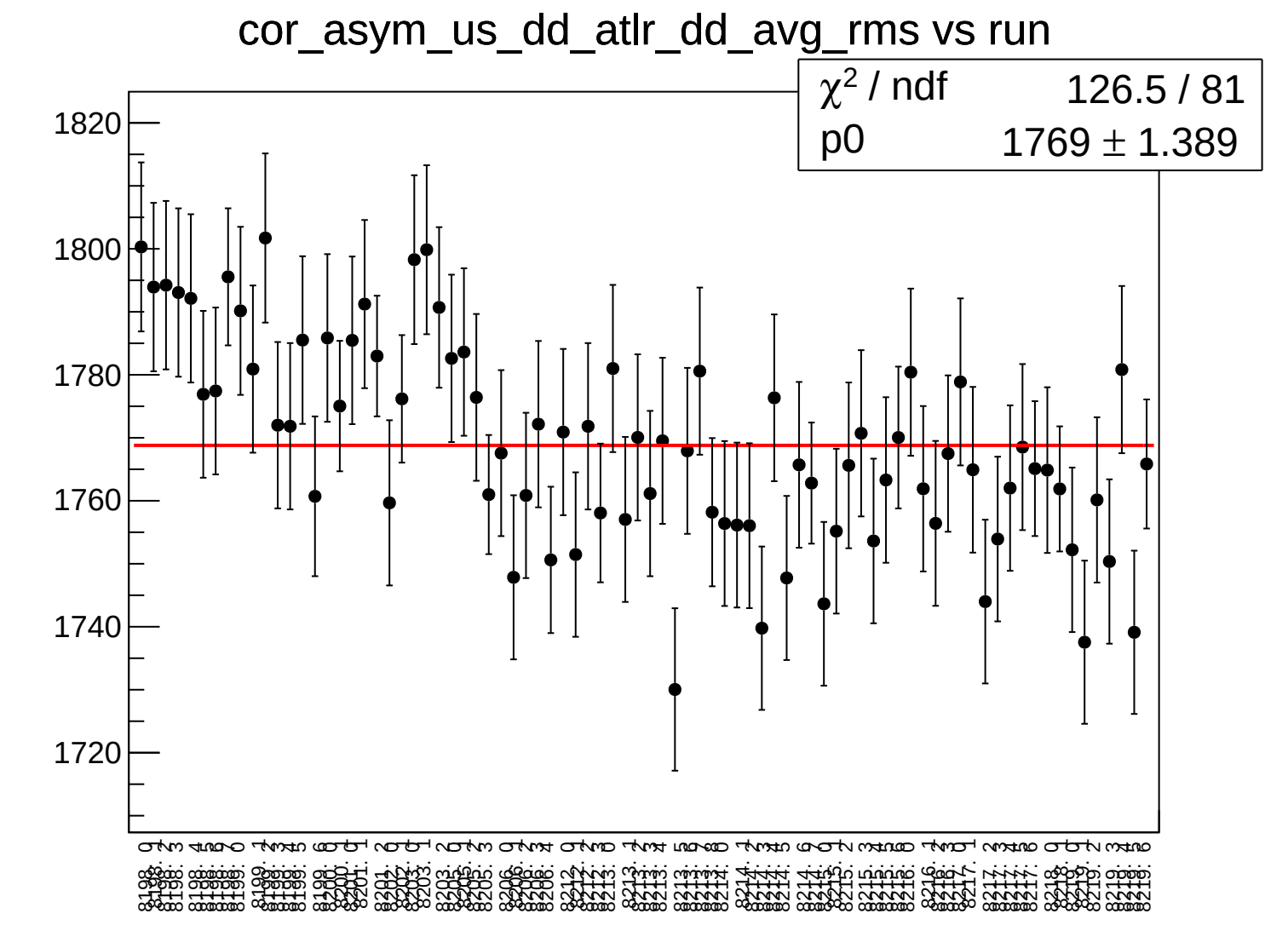

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 93.44 / 81
p0 −2163 ± 3164
150
100
50
0
−50
−100
pull
Entries 82
Mean −100.1
Std Dev 0
3
2
1
0
−1
−2
−3

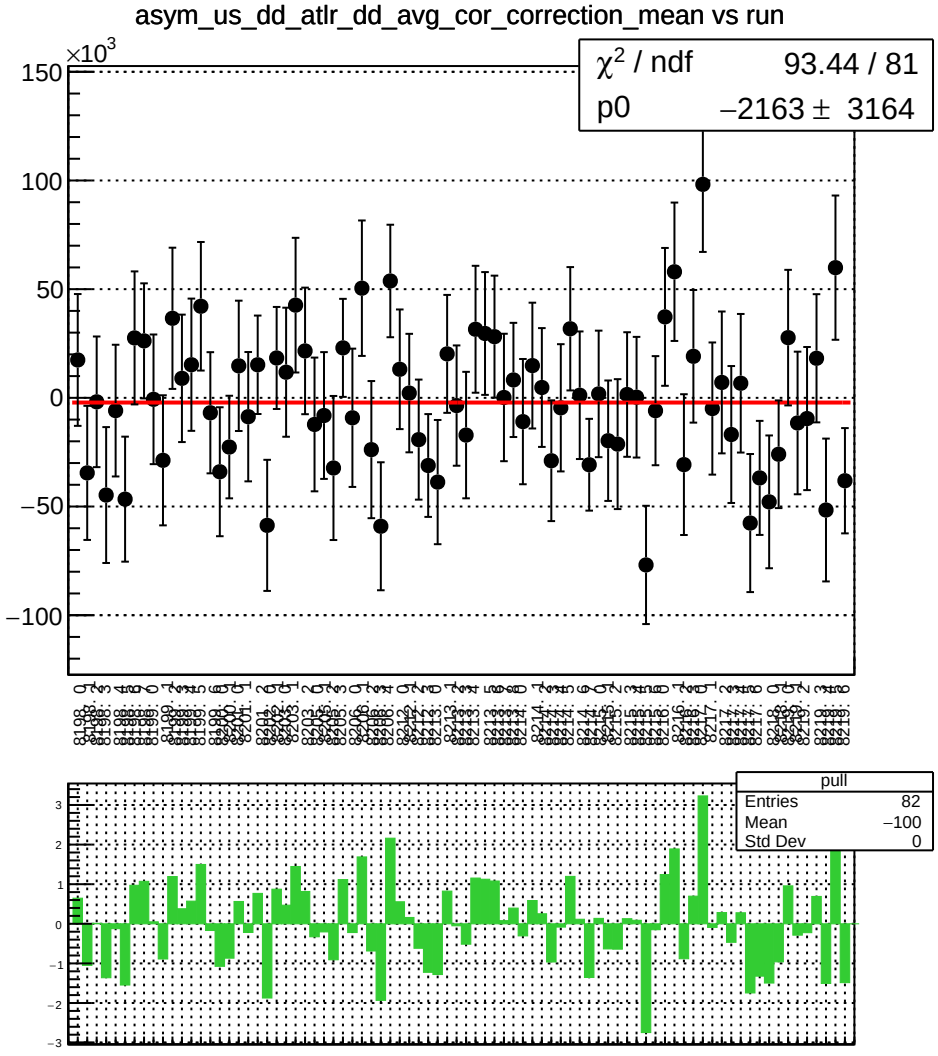

pull1D
Entries 82
Mean 0.01022
Std Dev 1.067
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

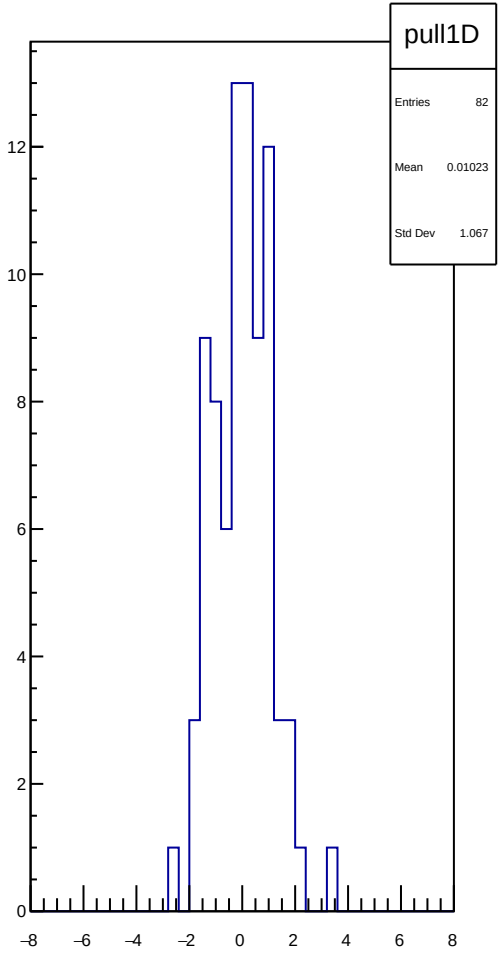

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 4682 / 81
p0 2844 ± 2.237
3200
3100
3000
2900
2800
2700
2600
2500

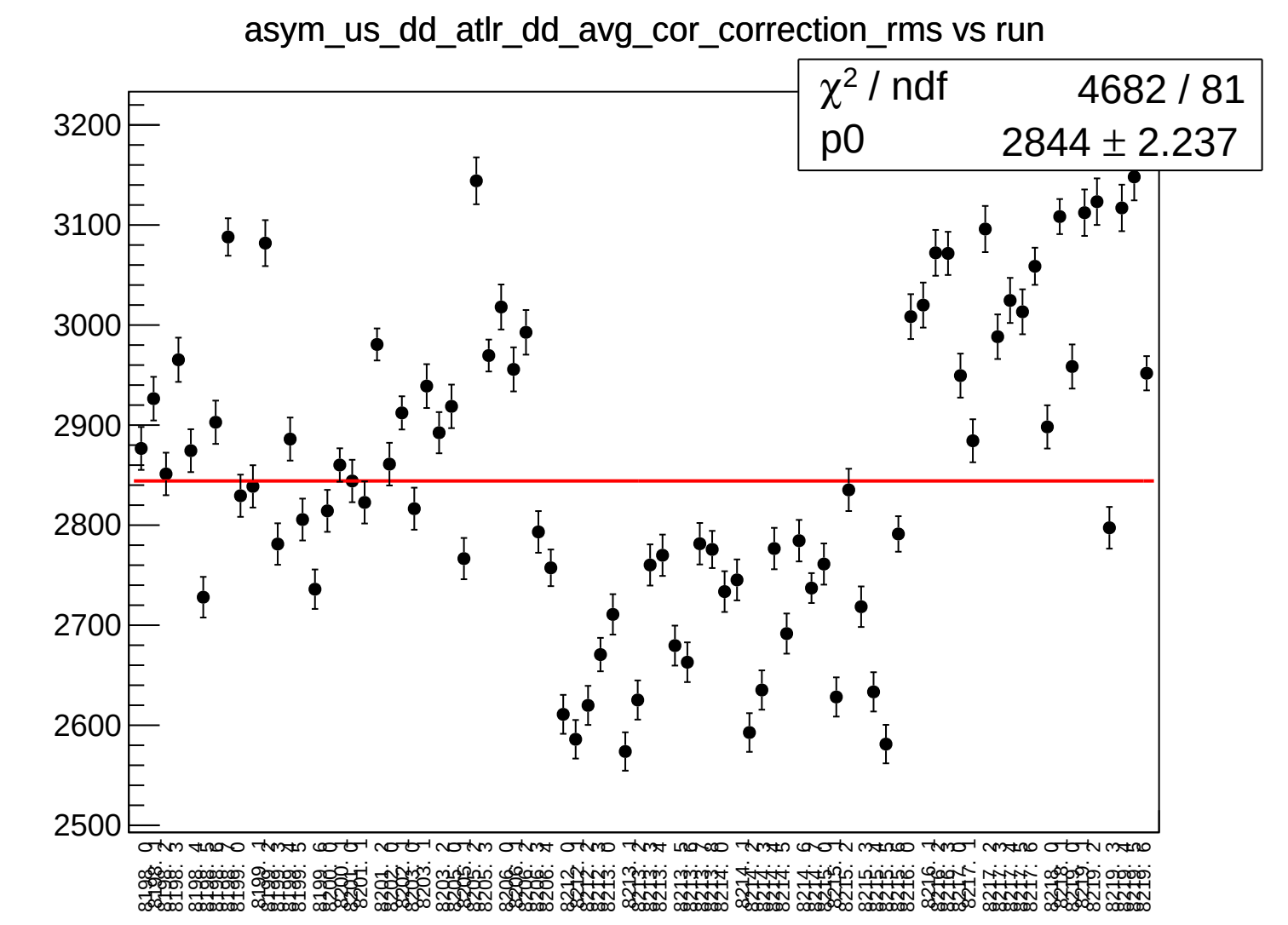

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 65.13 / 81
p0 1363 ± 1965
pull
Entries 82
Mean 489.8
Std Dev 0

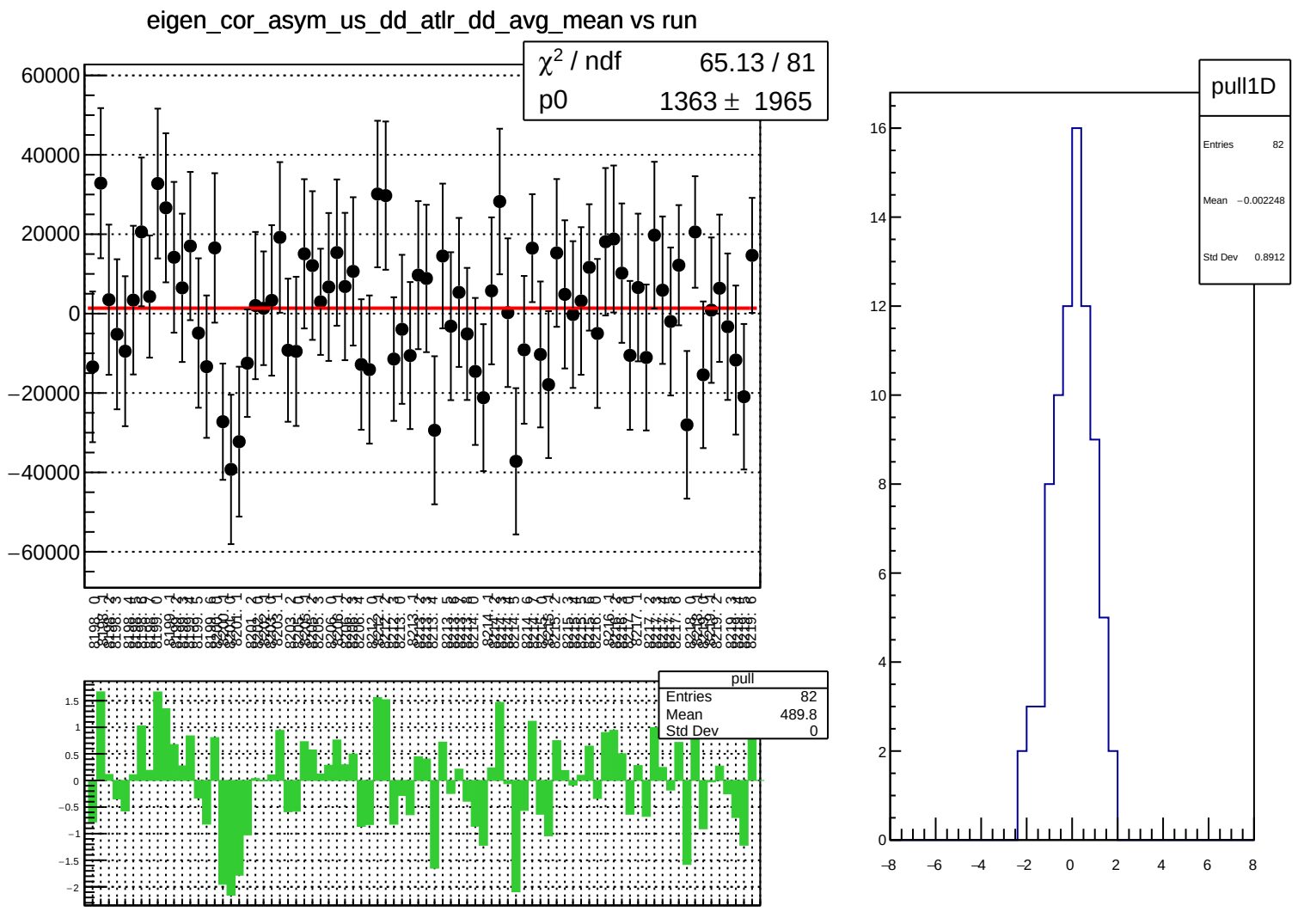

pull1D
Entries 82
Mean −0.002248
Std Dev 0.8912

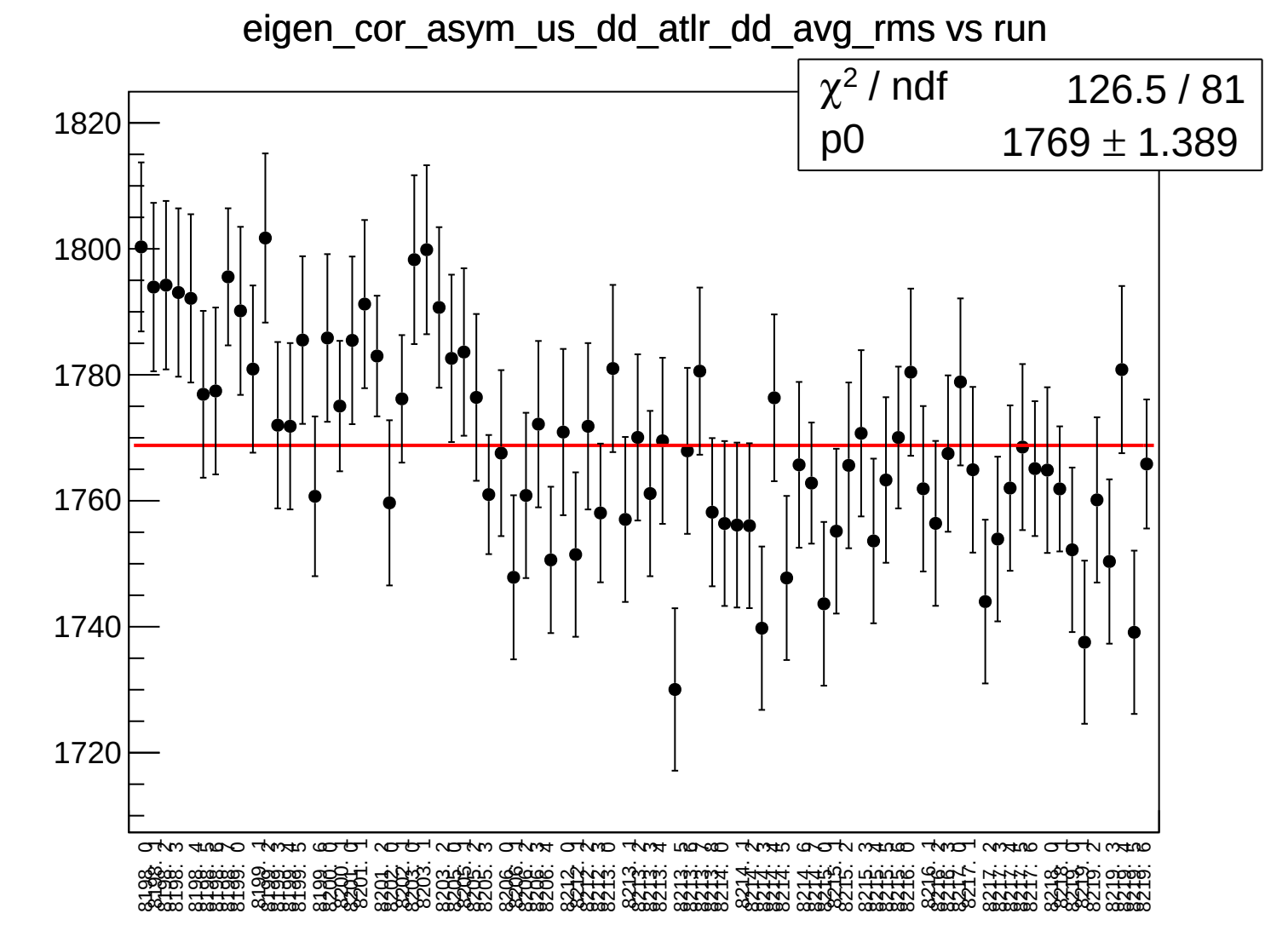

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 126.5 / 81
p0 1769 ± 1.389
1820
1800
1780
1760
1740
1720


asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 93.44 / 81
p0 −2163 ± 3164
150
100
50
0
−50
−100
pull
Entries 82
Mean −100
Std Dev 0
3
2
1
0
−1
−2
−3

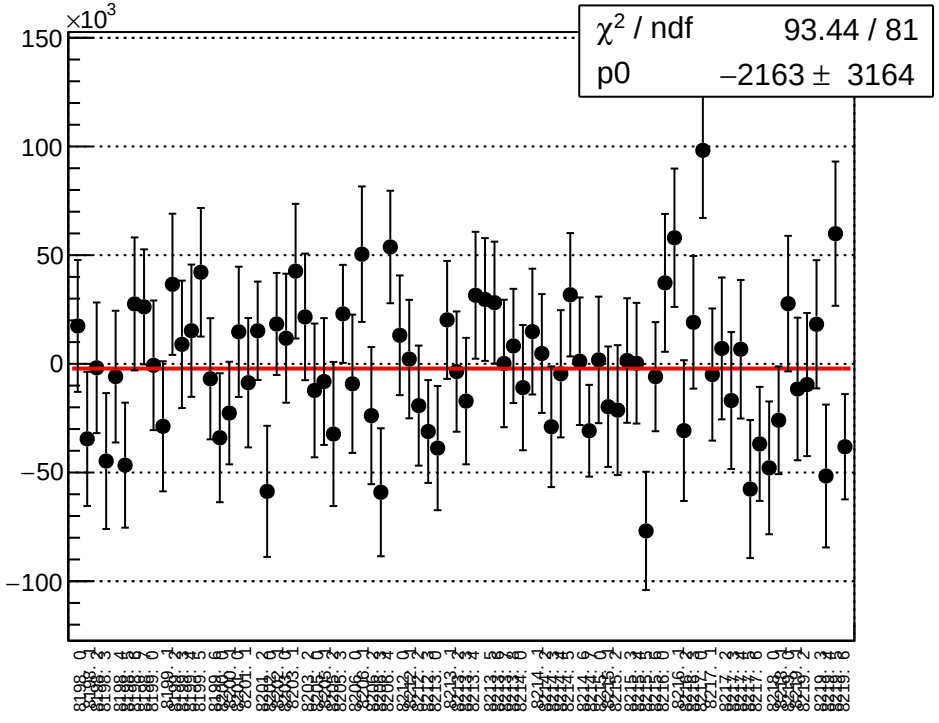

pull1D
Entries 82
Mean 0.01023
Std Dev 1.067
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

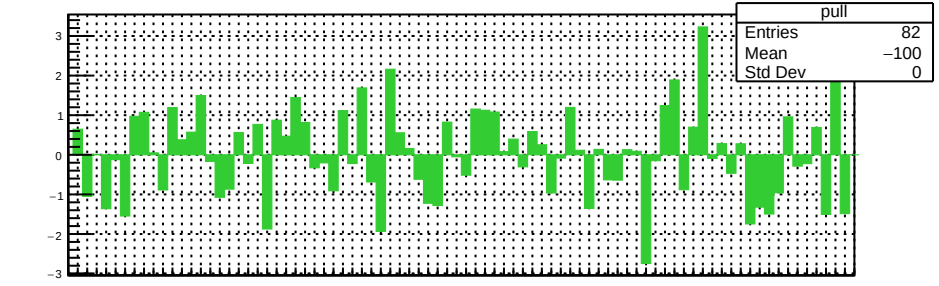

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 4682 / 81
p0 2844 ± 2.237
3200
3100
3000
2900
2800
2700
2600
2500

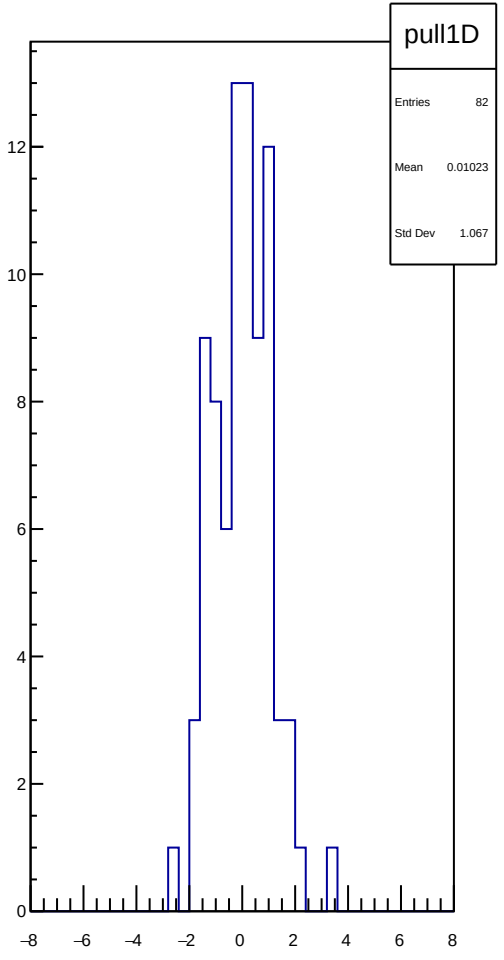

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 65.13 / 81
p0 1363 ± 1965
pull
Entries 82
Mean 489.8
Std Dev 0
pull1D
Entries 82
Mean −0.002248
Std Dev 0.8912

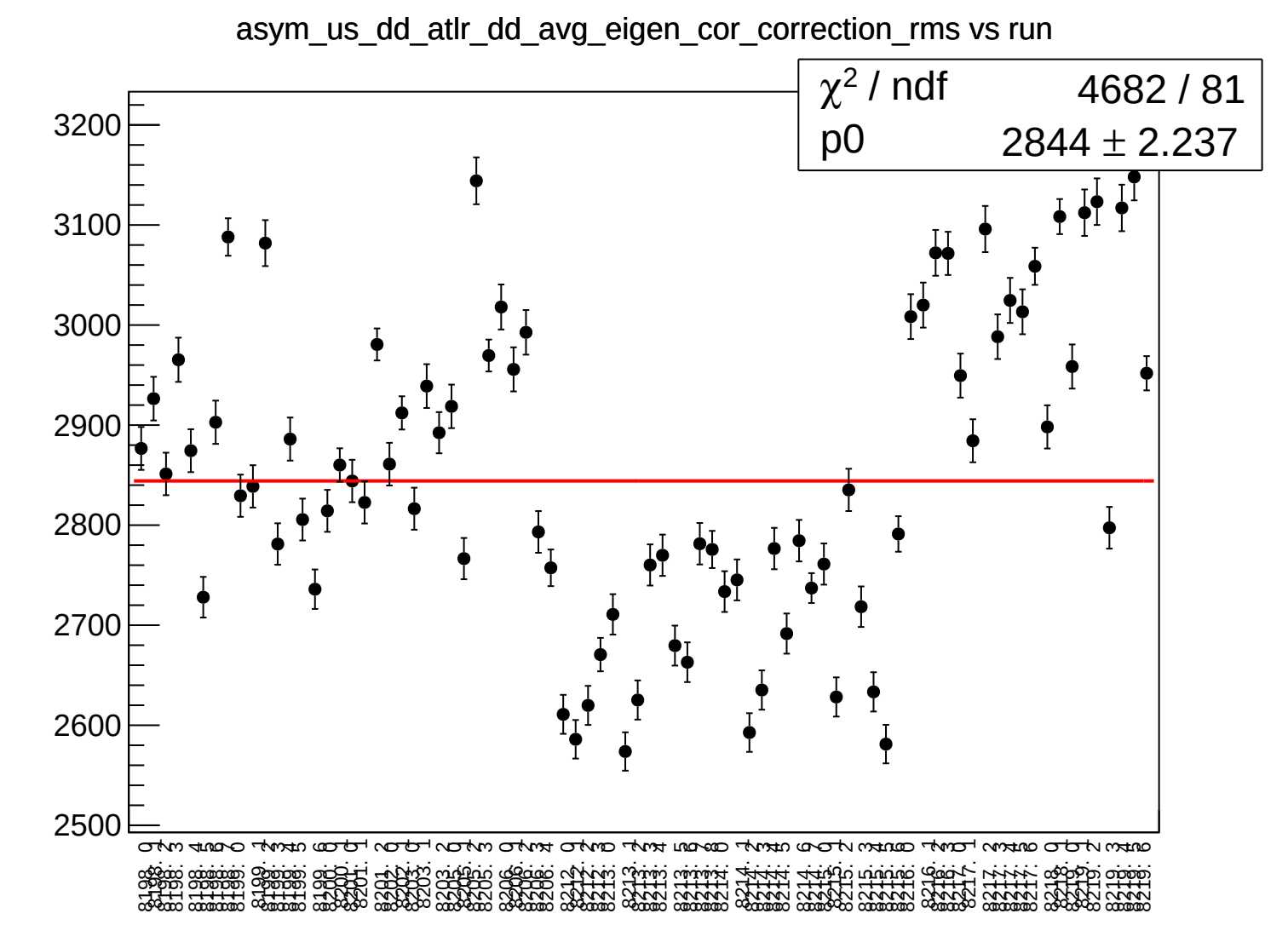

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 126.5 / 81
p0 1769 ± 1.389
1820
1800
1780
1760
1740
1720

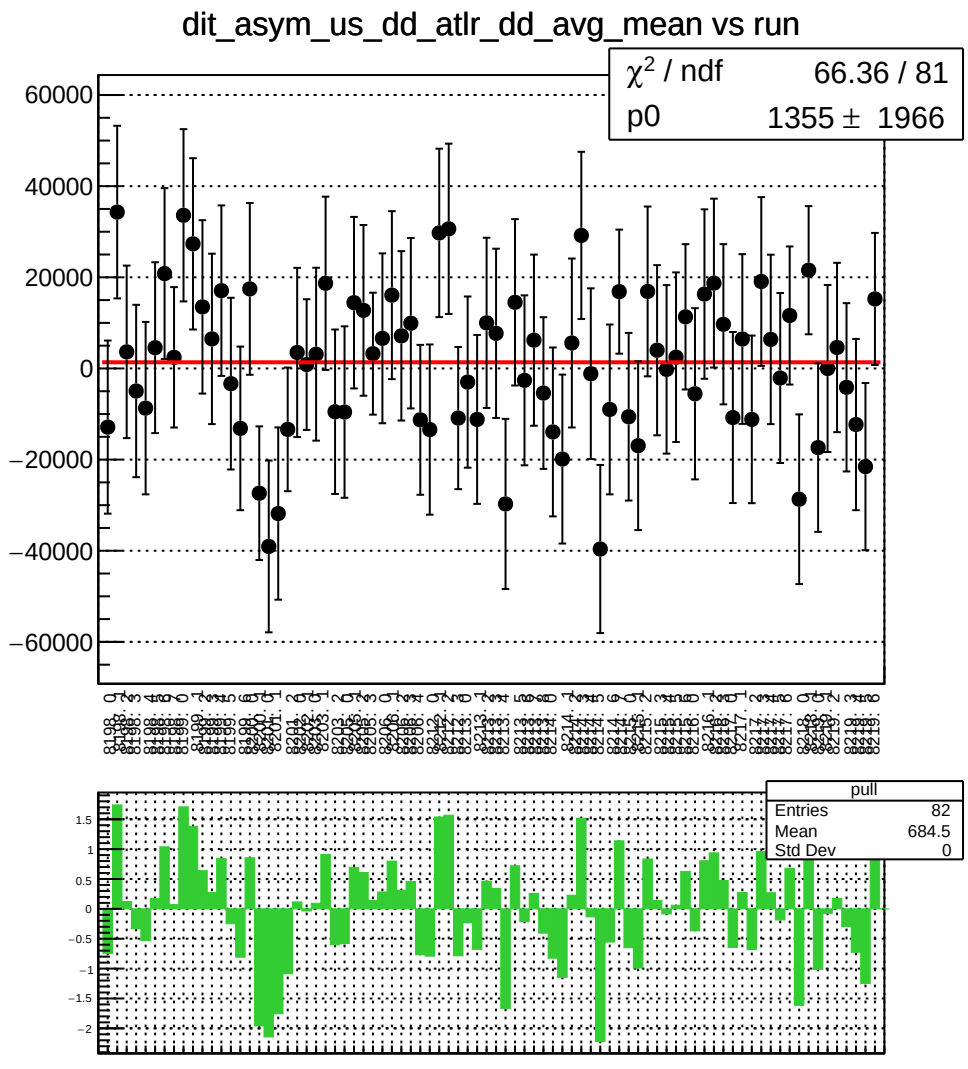
asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run

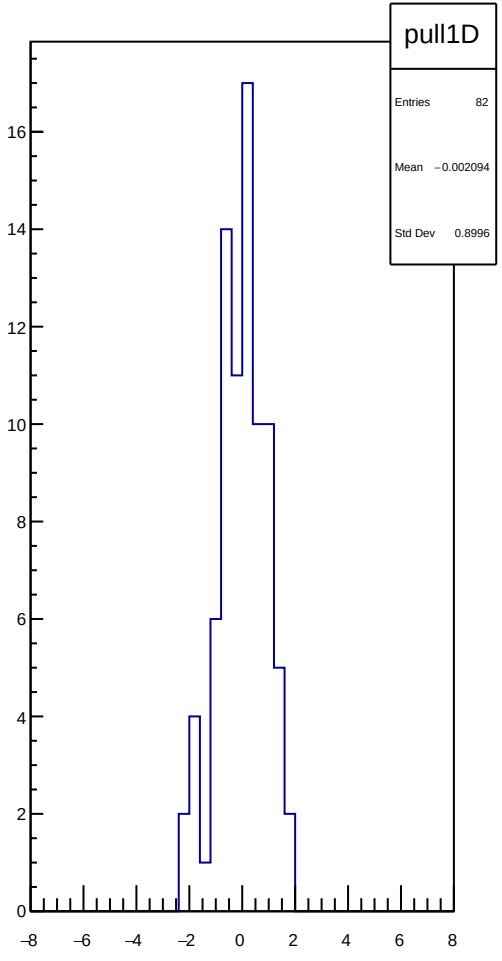


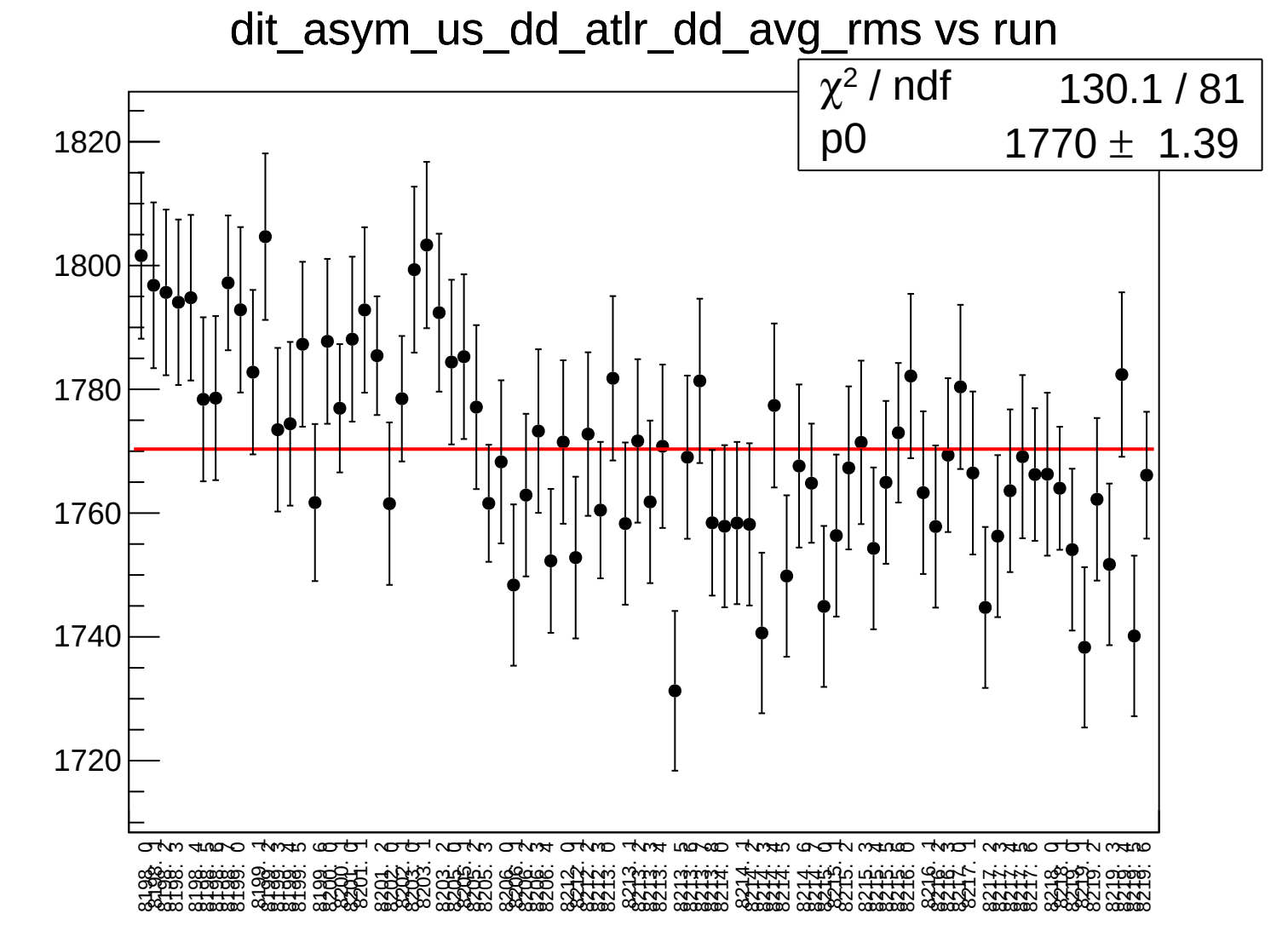



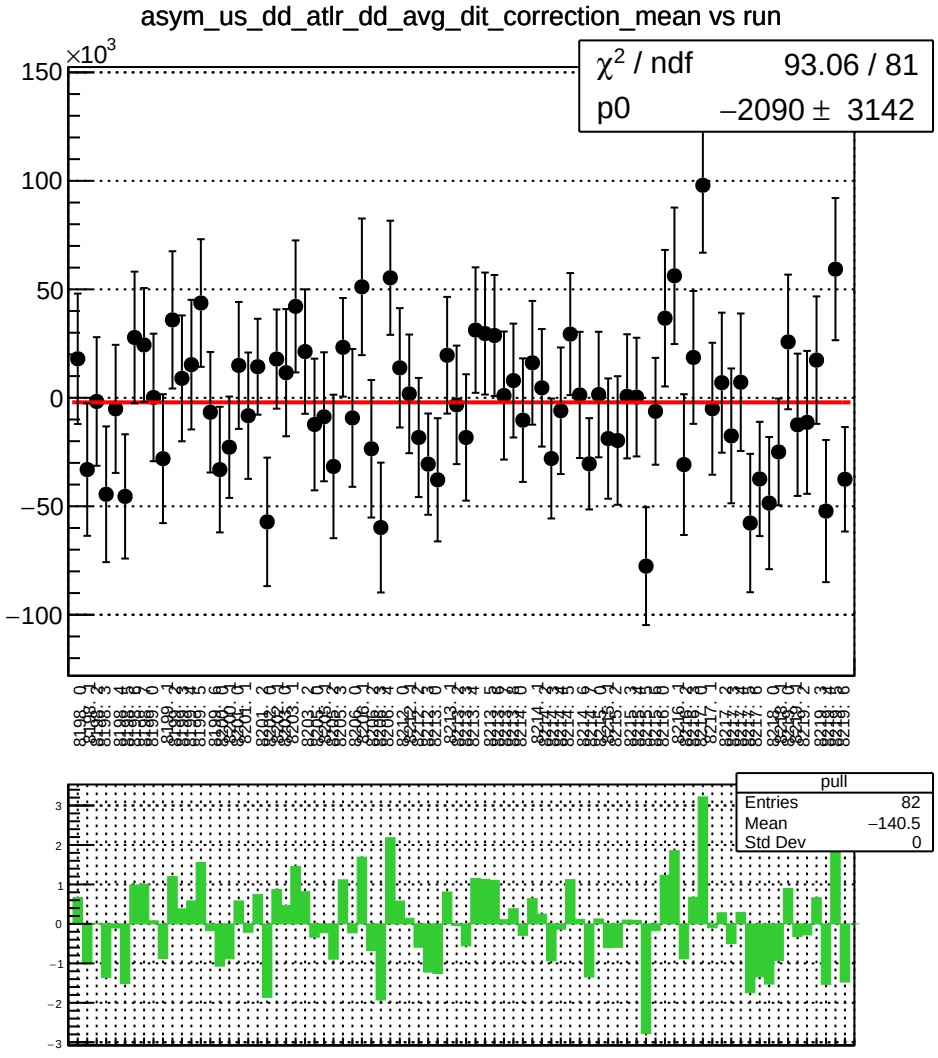



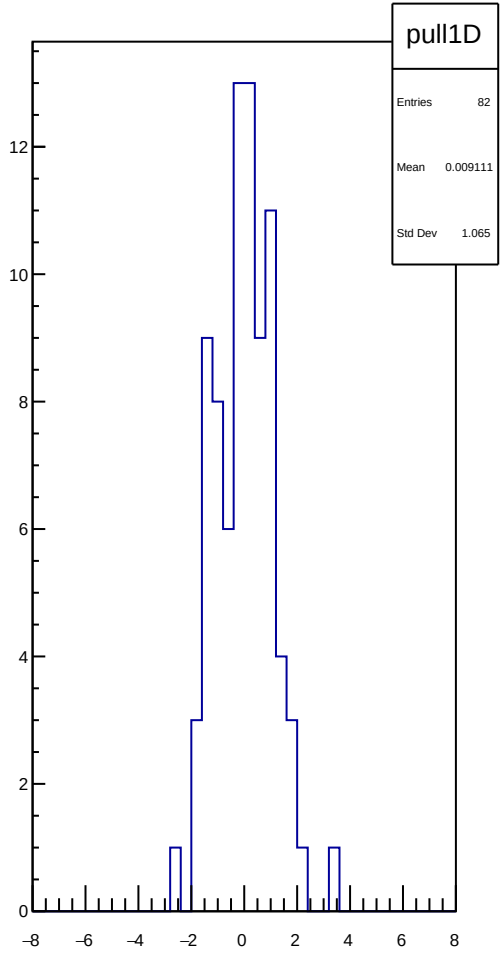

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4682 / 81
p0 2844 ± 2.237
3200
3100
3000
2900
2800
2700
2600
2500

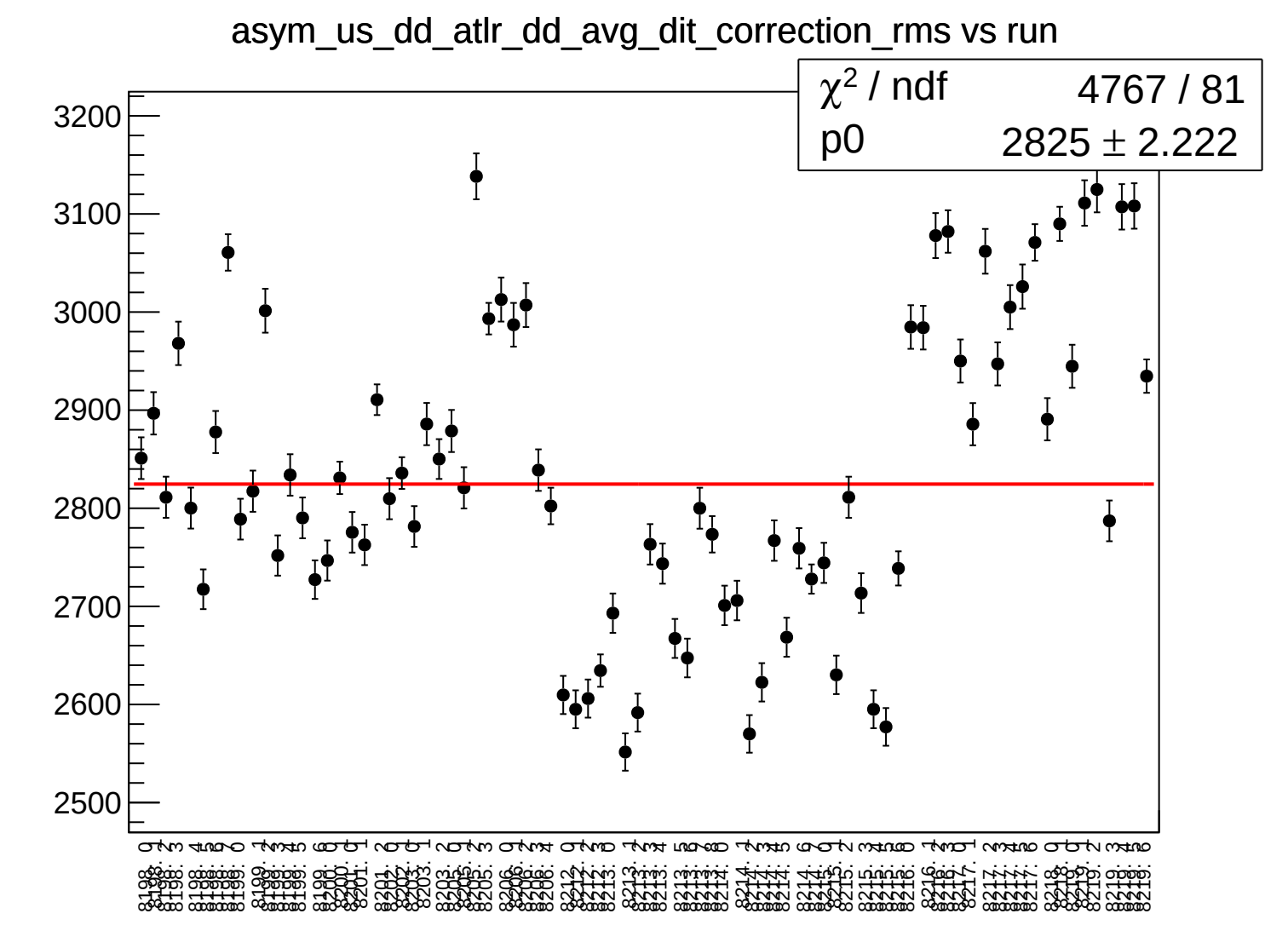

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 66.36 / 81
p0 1355 ± 1966
pull
Entries 82
Mean 684.5
Std Dev 0

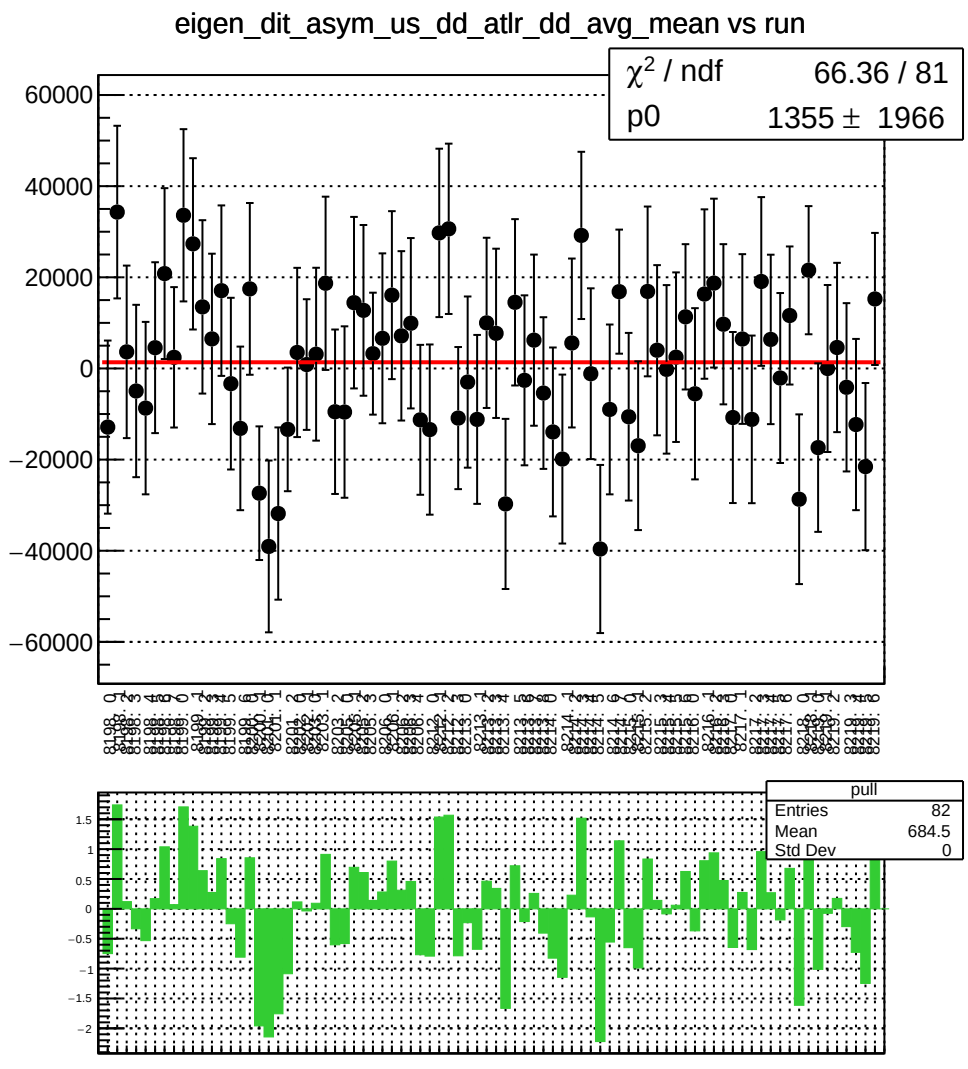

pull1D
Entries 82
Mean −0.002094
Std Dev 0.8996

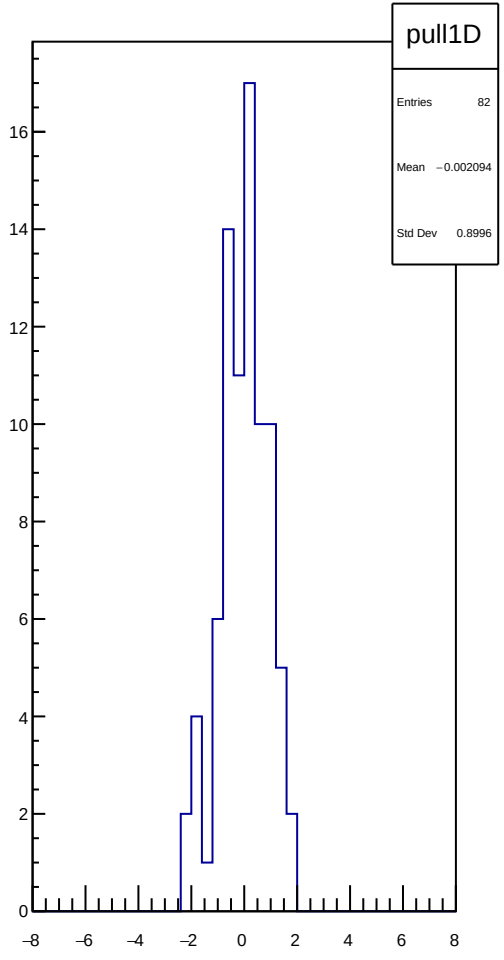

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 130.1 / 81
p0 1770 ± 1.39
1820
1800
1780
1760
1740
1720

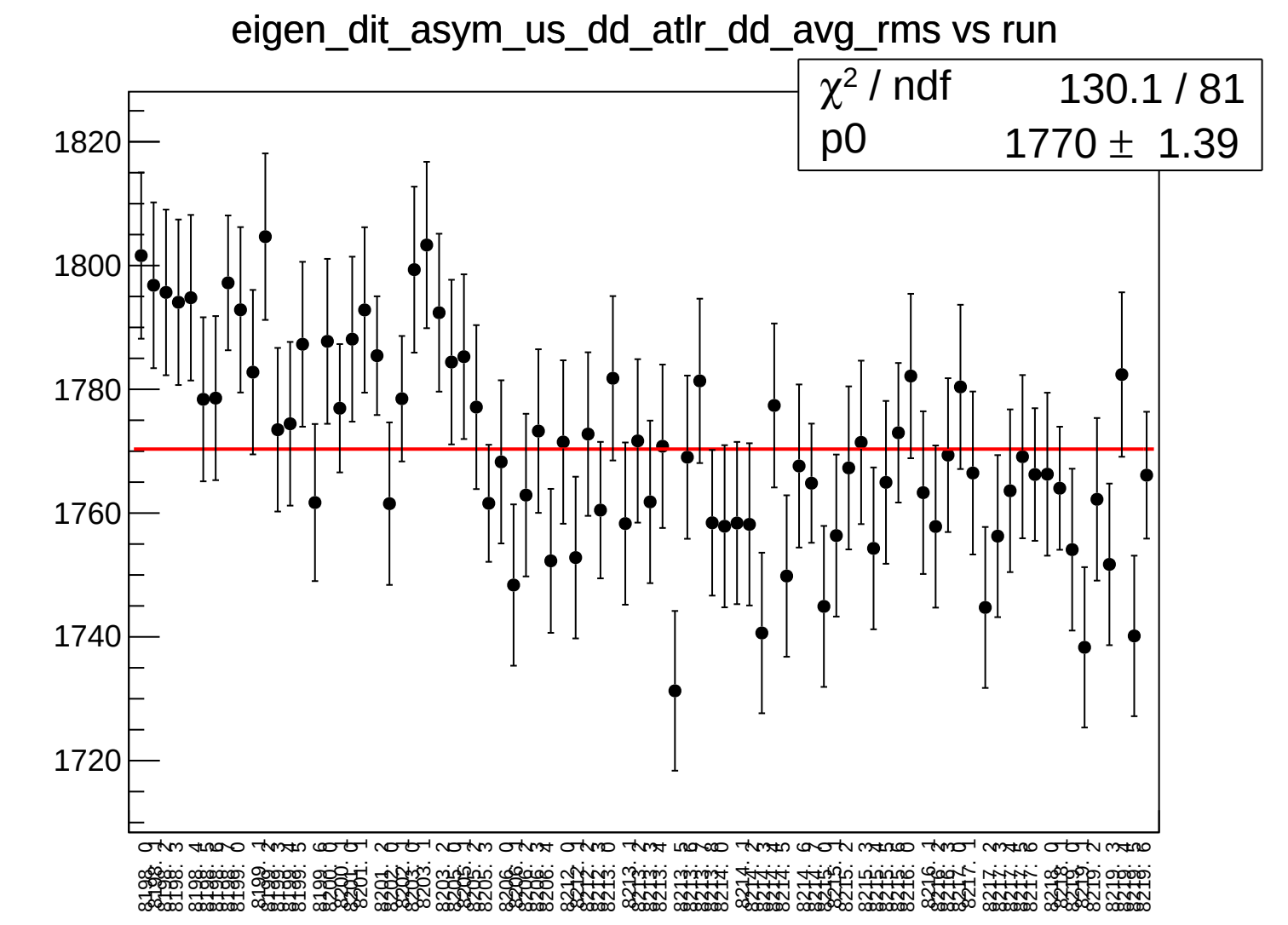

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 93.06 / 81
p0 −2090 ± 3142
150
100
50
0
−50
−100
pull
Entries 82
Mean −140.5
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.009111
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

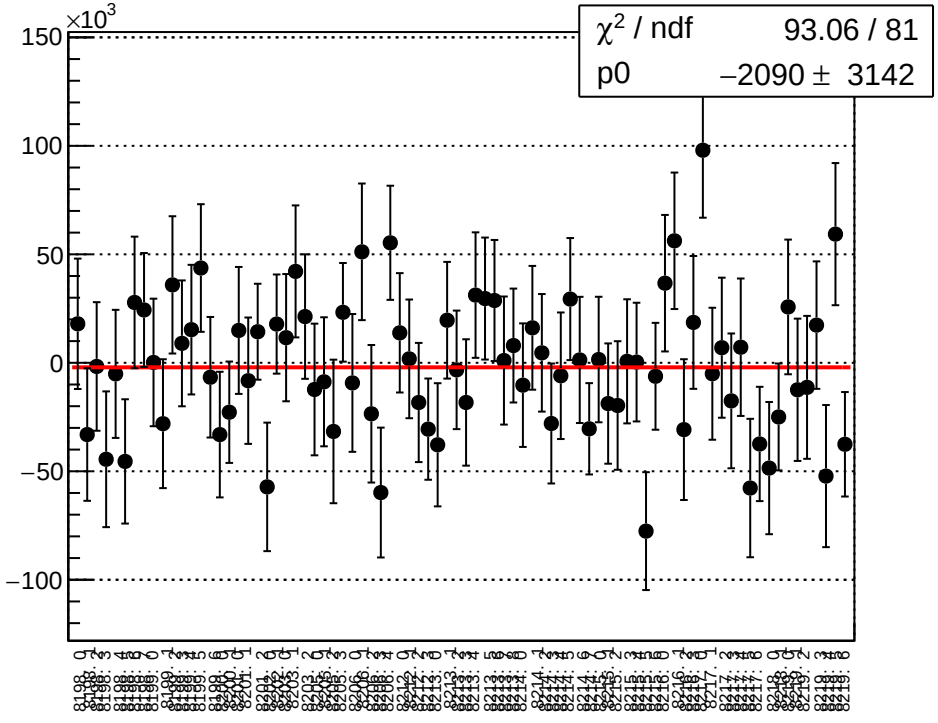

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 4767 / 81
p0 2825 ± 2.222
3200
3100
3000
2900
2800
2700
2600
2500

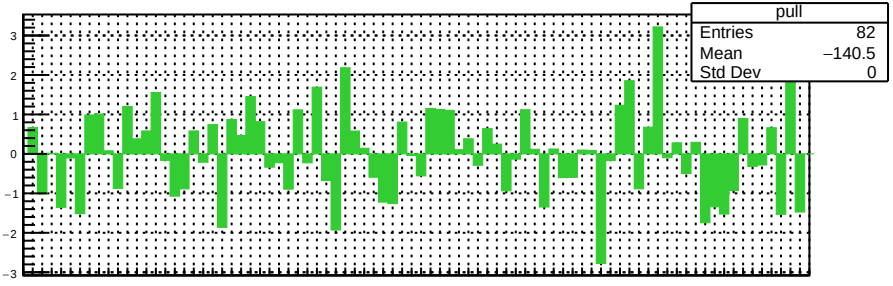

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 66.36 / 81
p0 1355 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 684.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

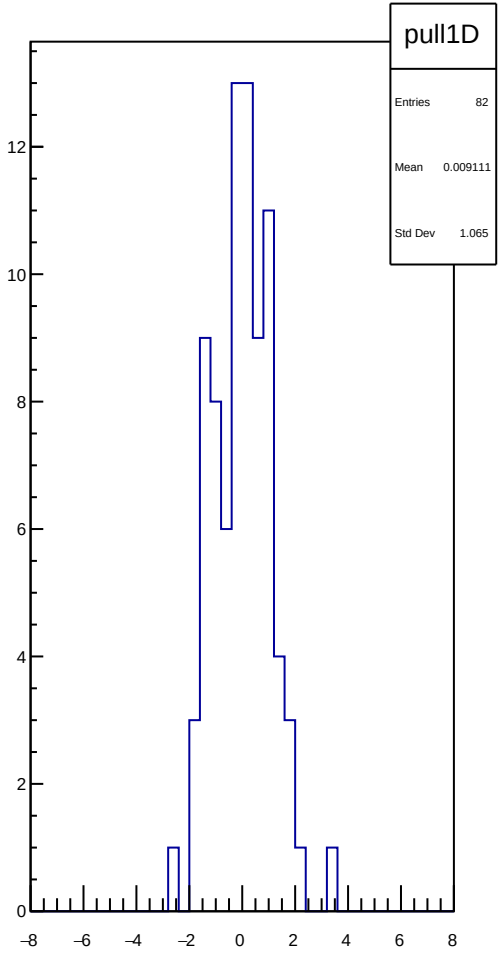

pull1D
Entries 82
Mean −0.002094
Std Dev 0.8996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

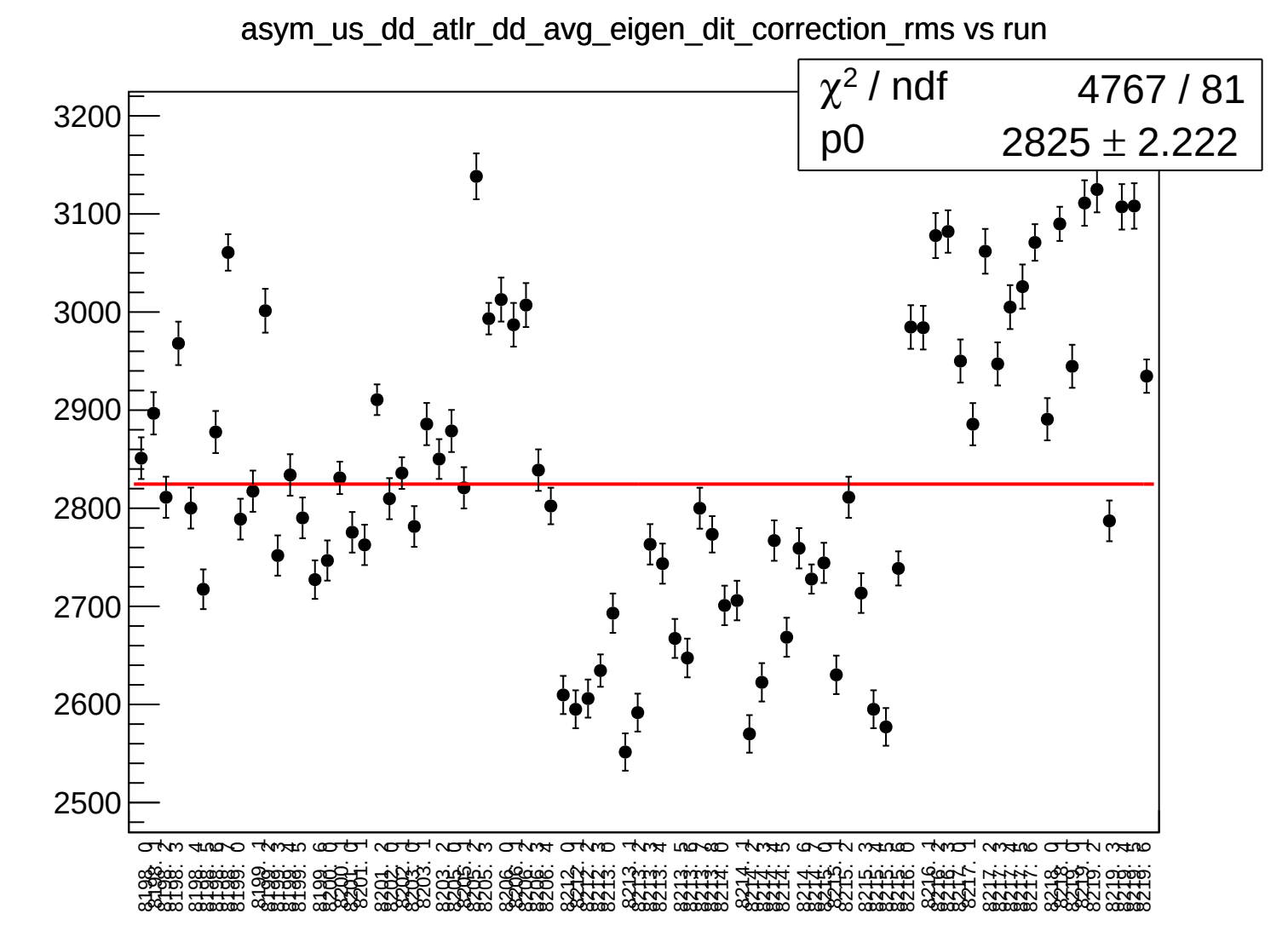

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 130.1 / 81
p0 1770 ± 1.39
1820
1800
1780
1760
1740
1720

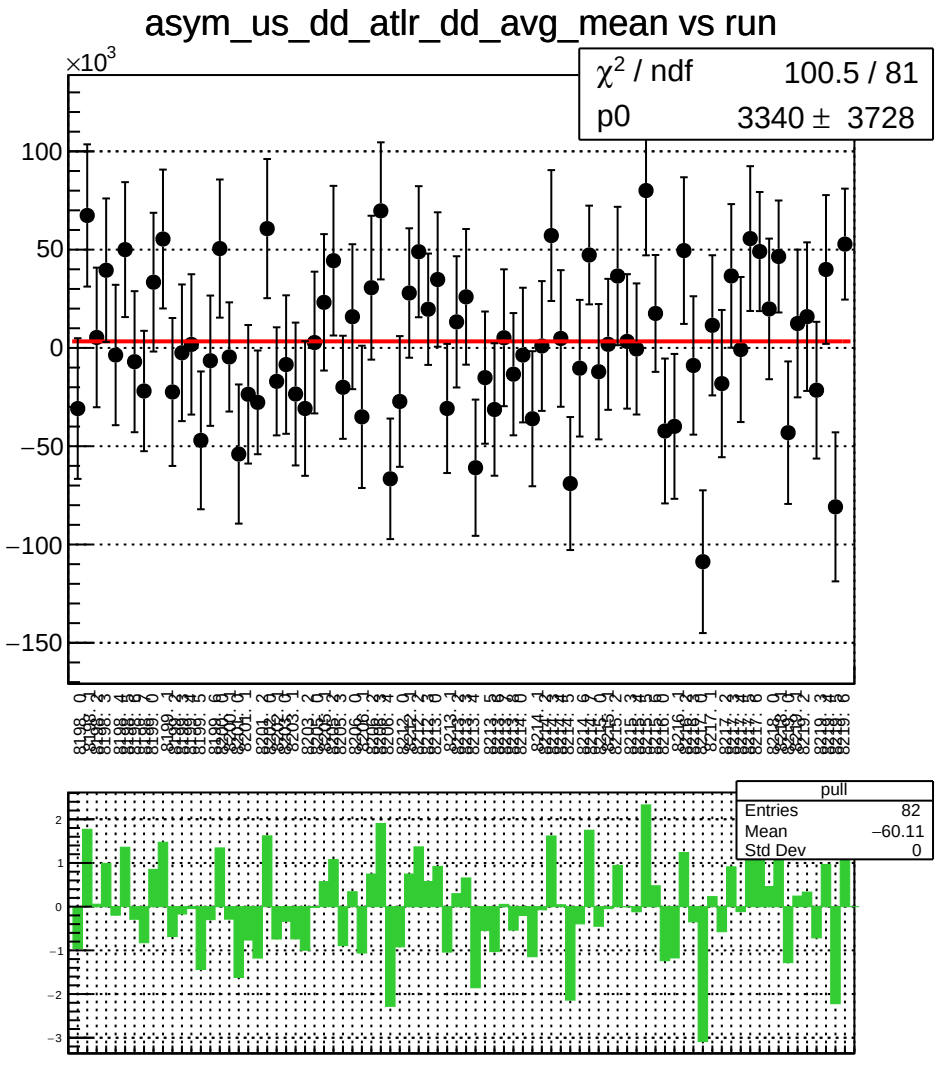
asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run

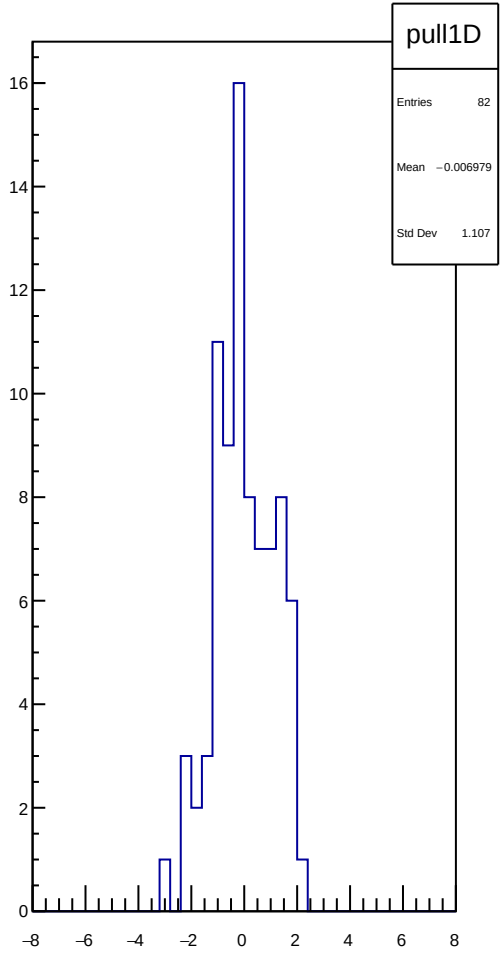


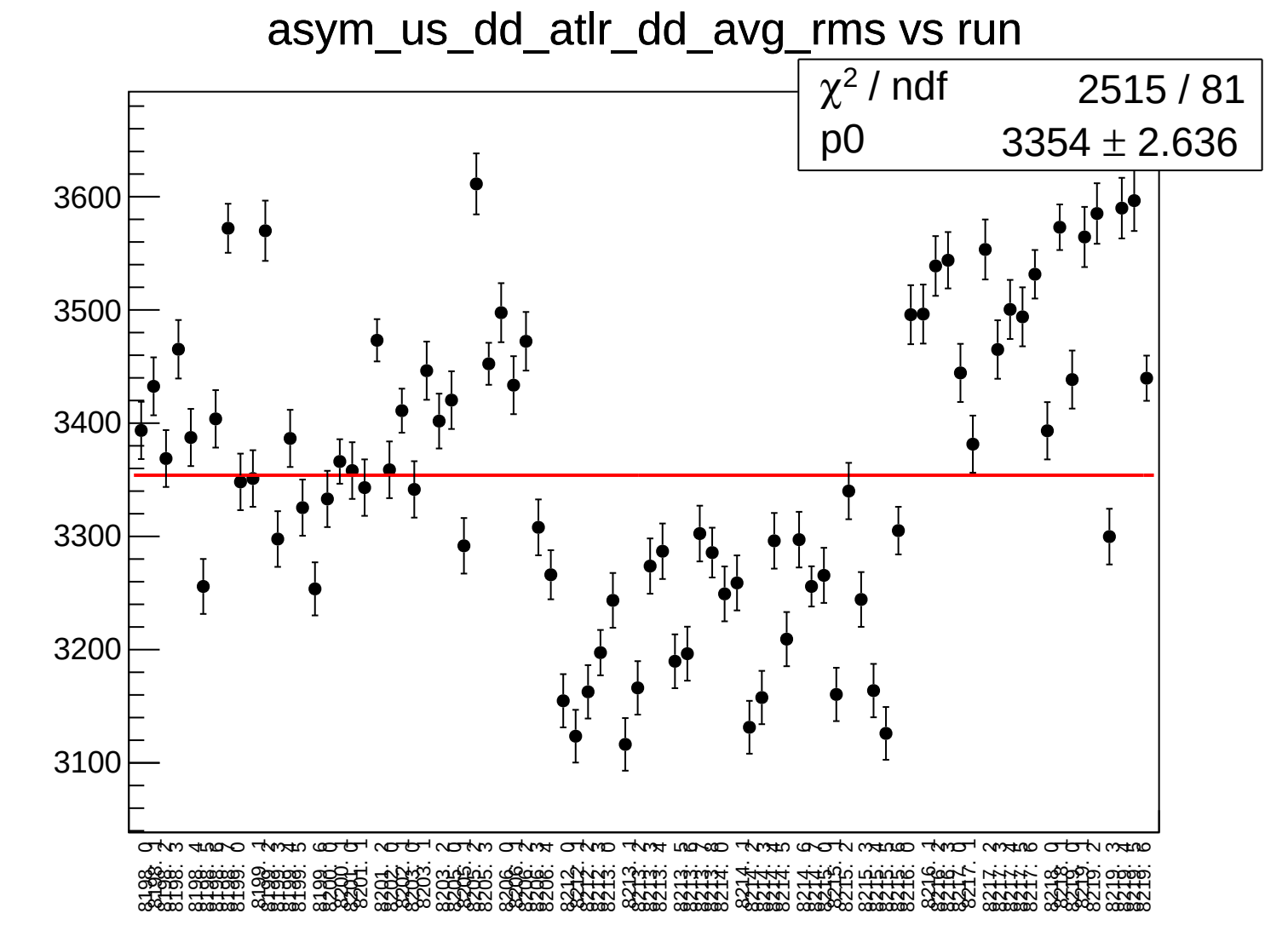



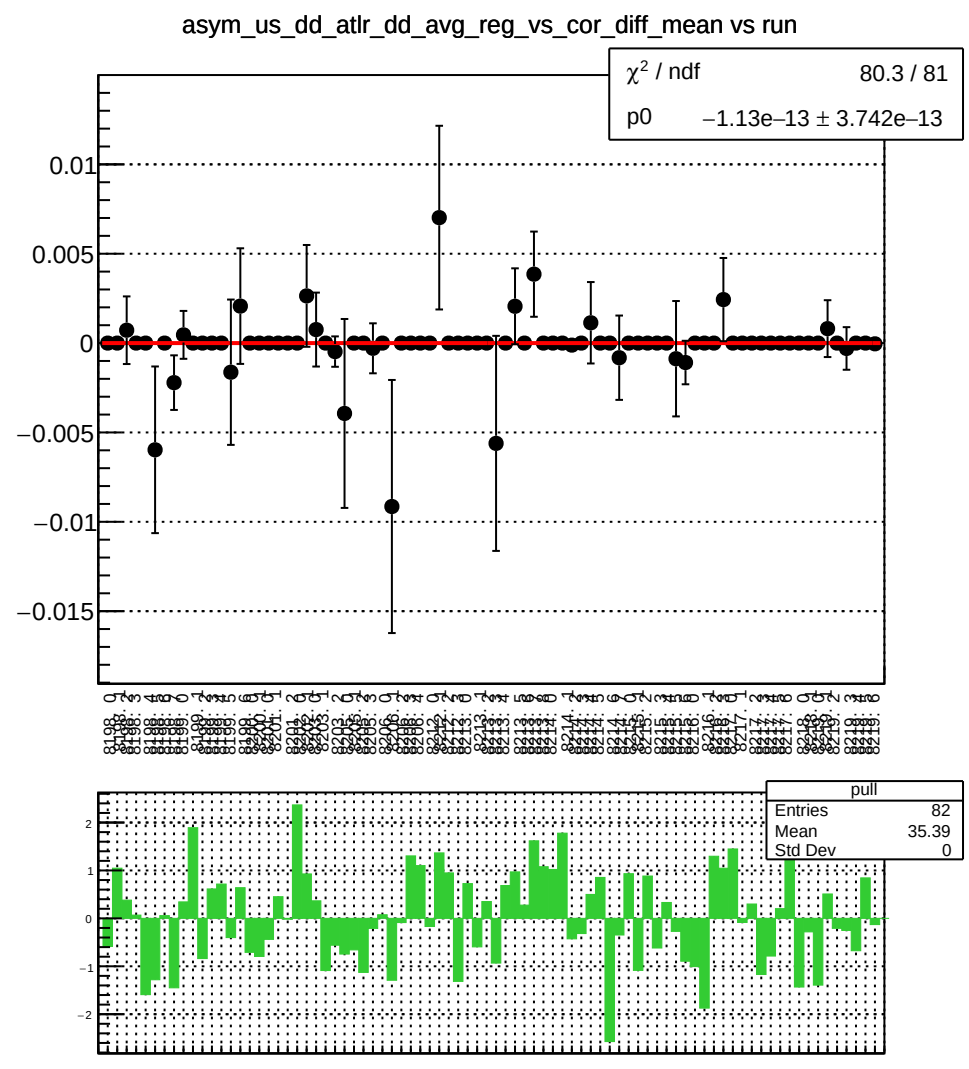



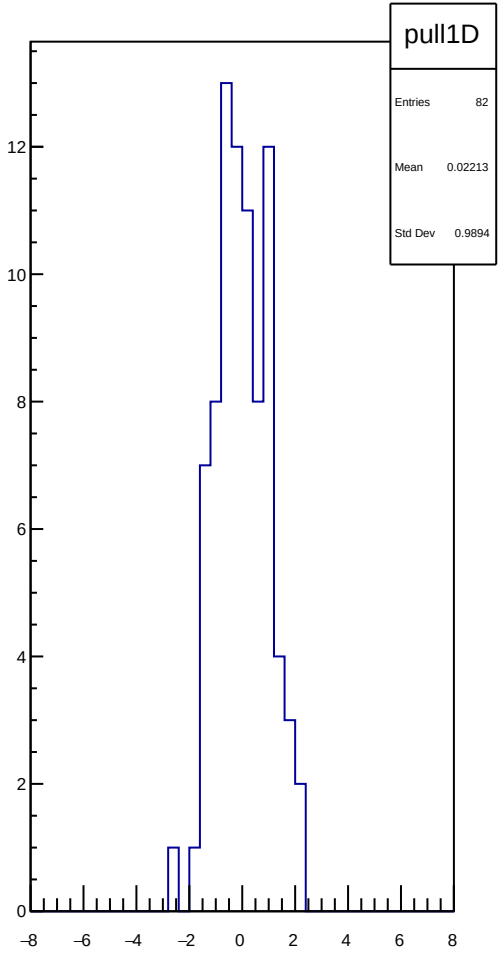

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4767 / 81
p0 2825 ± 2.222
3200
3100
3000
2900
2800
2700
2600
2500

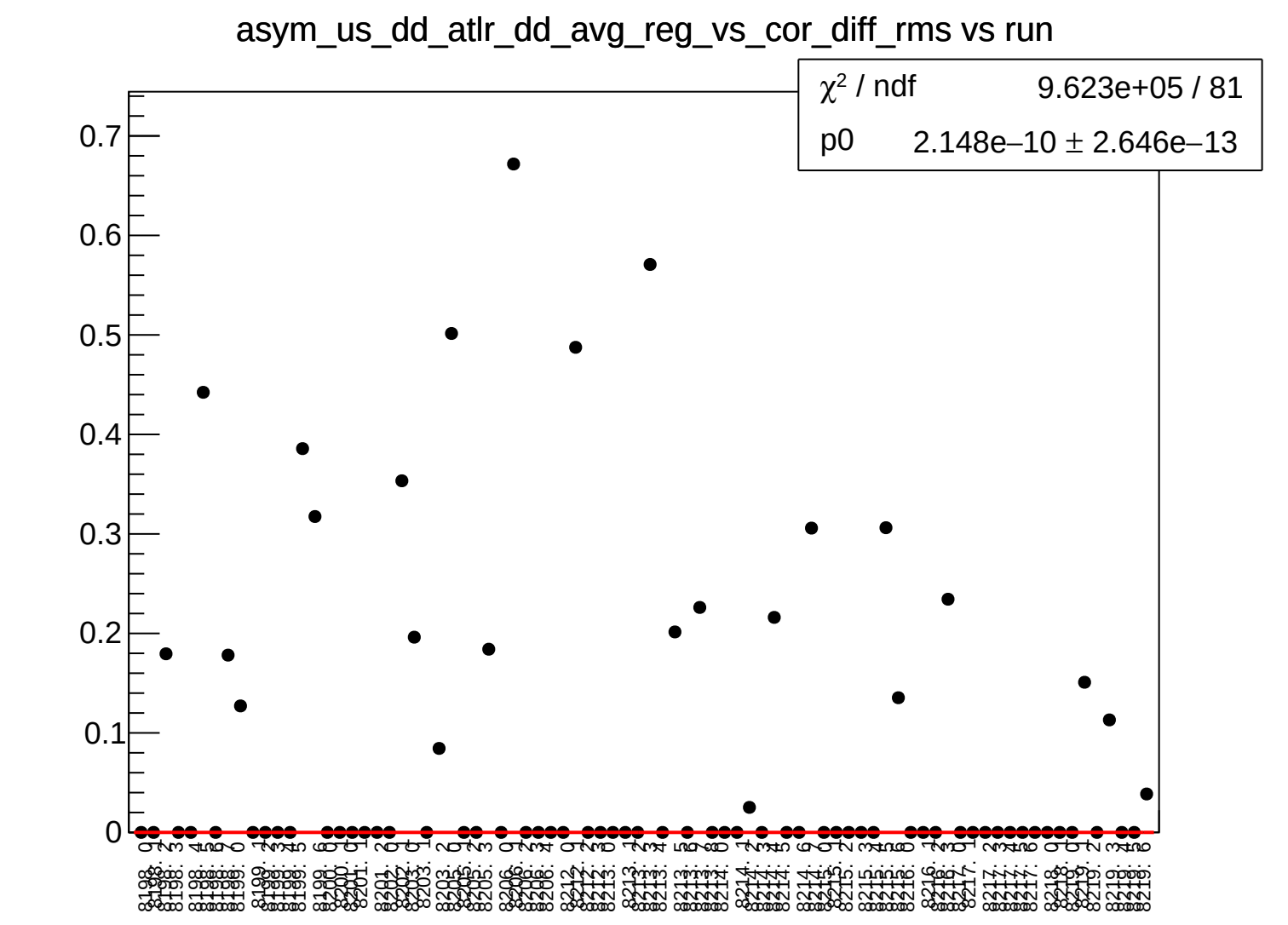

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 100.5 / 81
p0 3340 ± 3728
100
50
0
−50
−100
−150
pull
Entries 82
Mean −60.11
Std Dev 0
2
1
0
−1
−2
−3

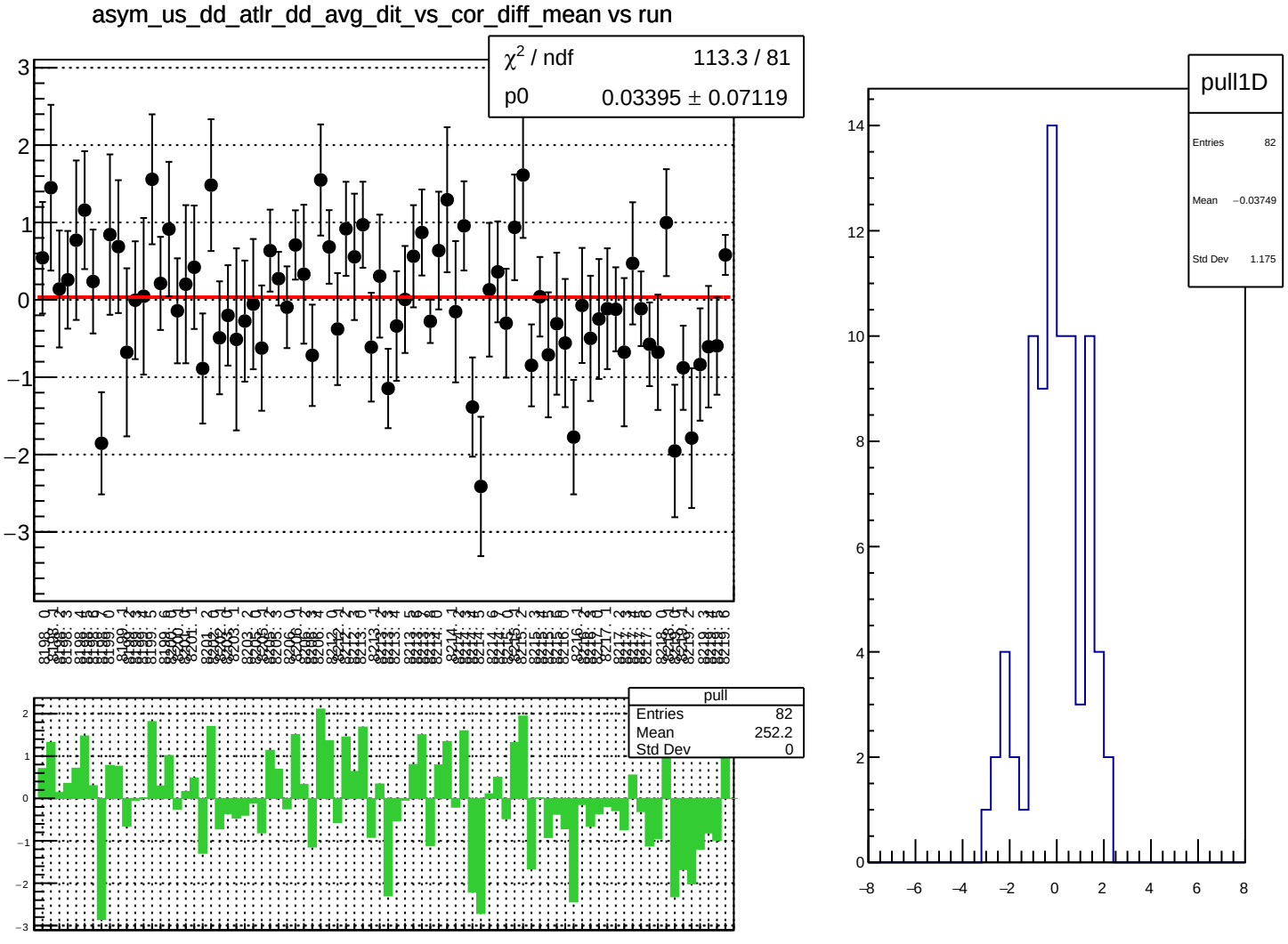

pull1D
Entries 82
Mean −0.006979
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

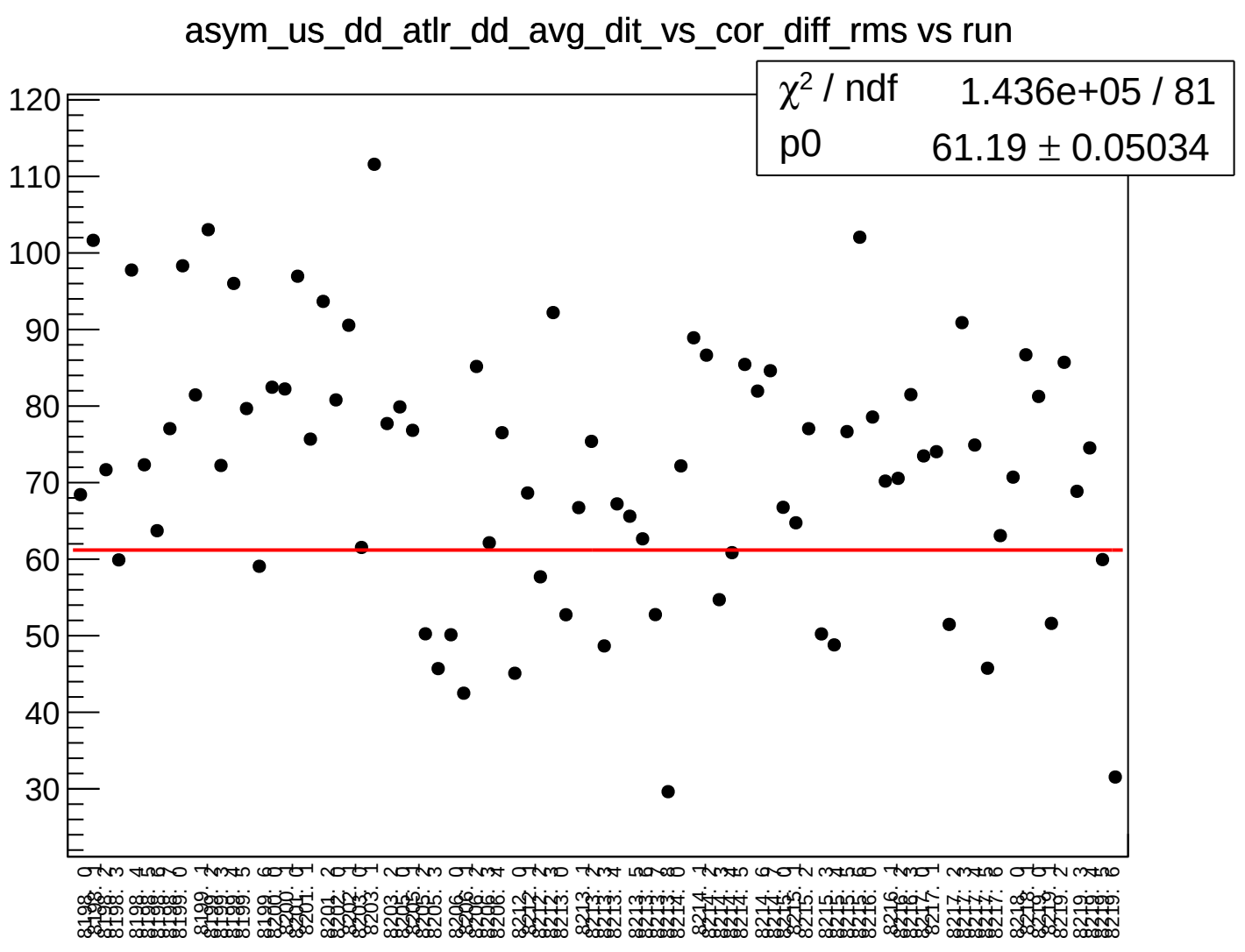

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 2515 / 81
p0 3354 ± 2.636
3600
3500
3400
3300
3200
3100

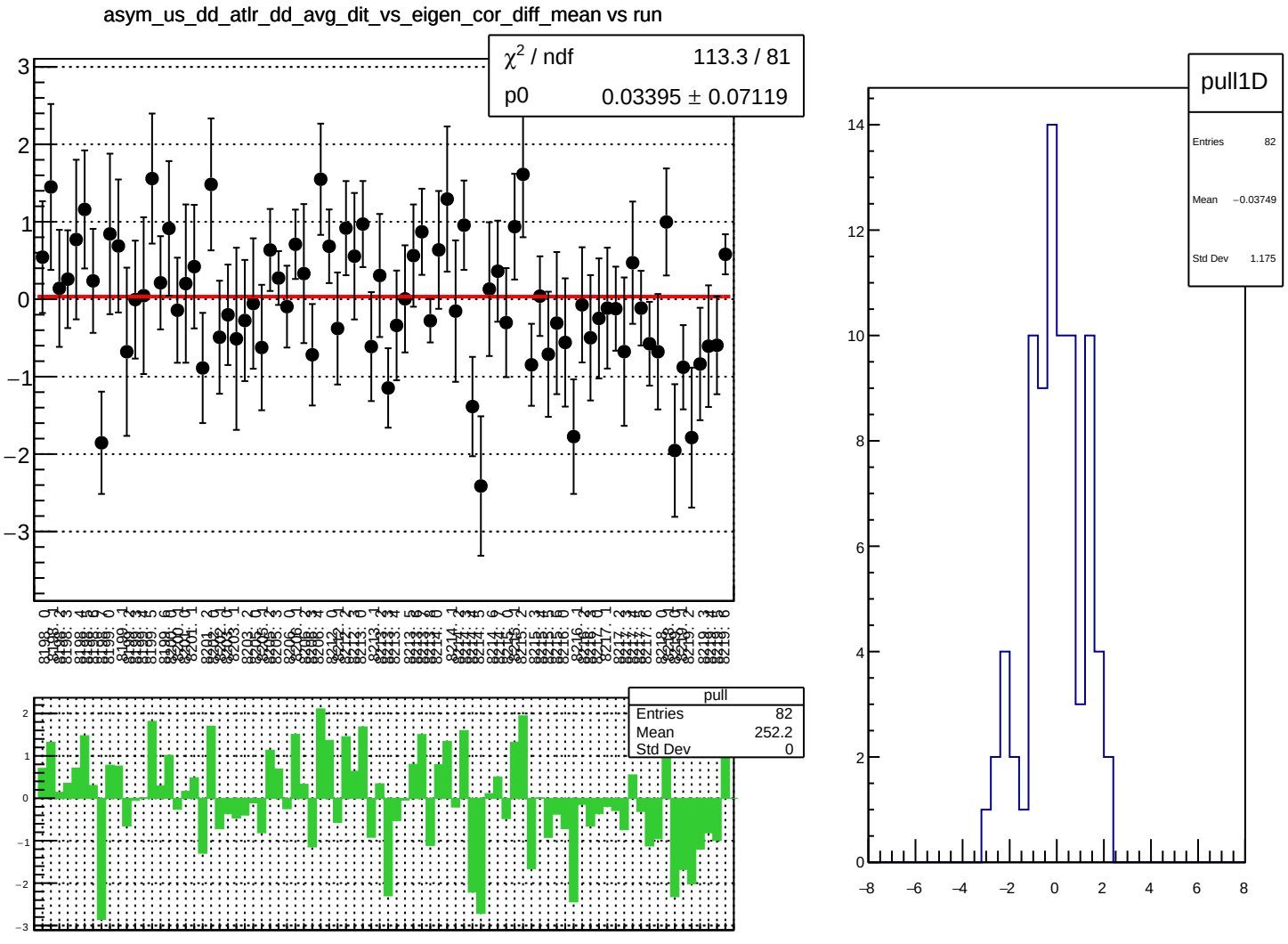

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.3 / 81
p0 −1.13e−13 ± 3.742e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 82
Mean 35.39
Std Dev 0
2
1
0
−1
−2

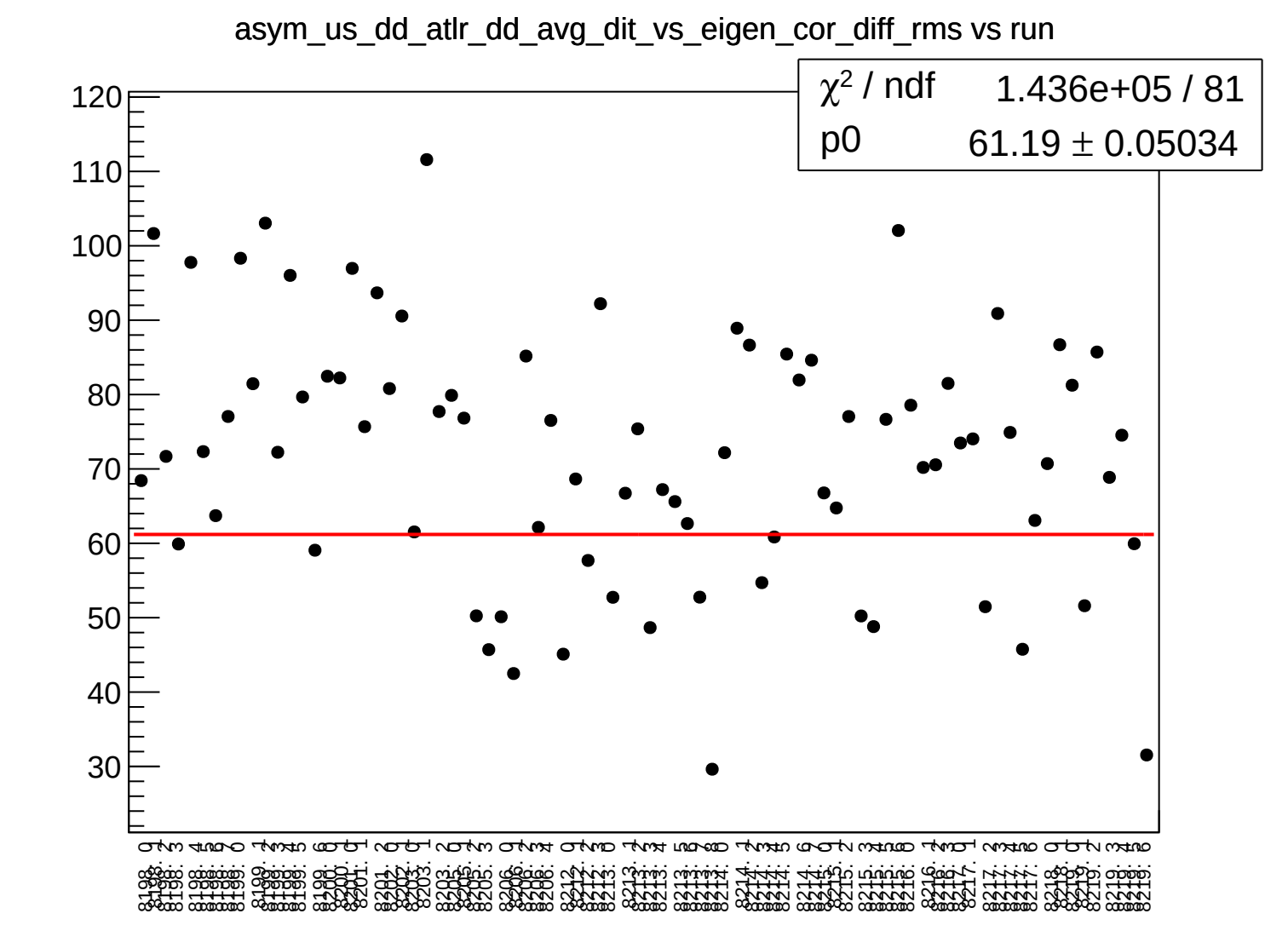

pull1D
Entries 82
Mean 0.02213
Std Dev 0.9894
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

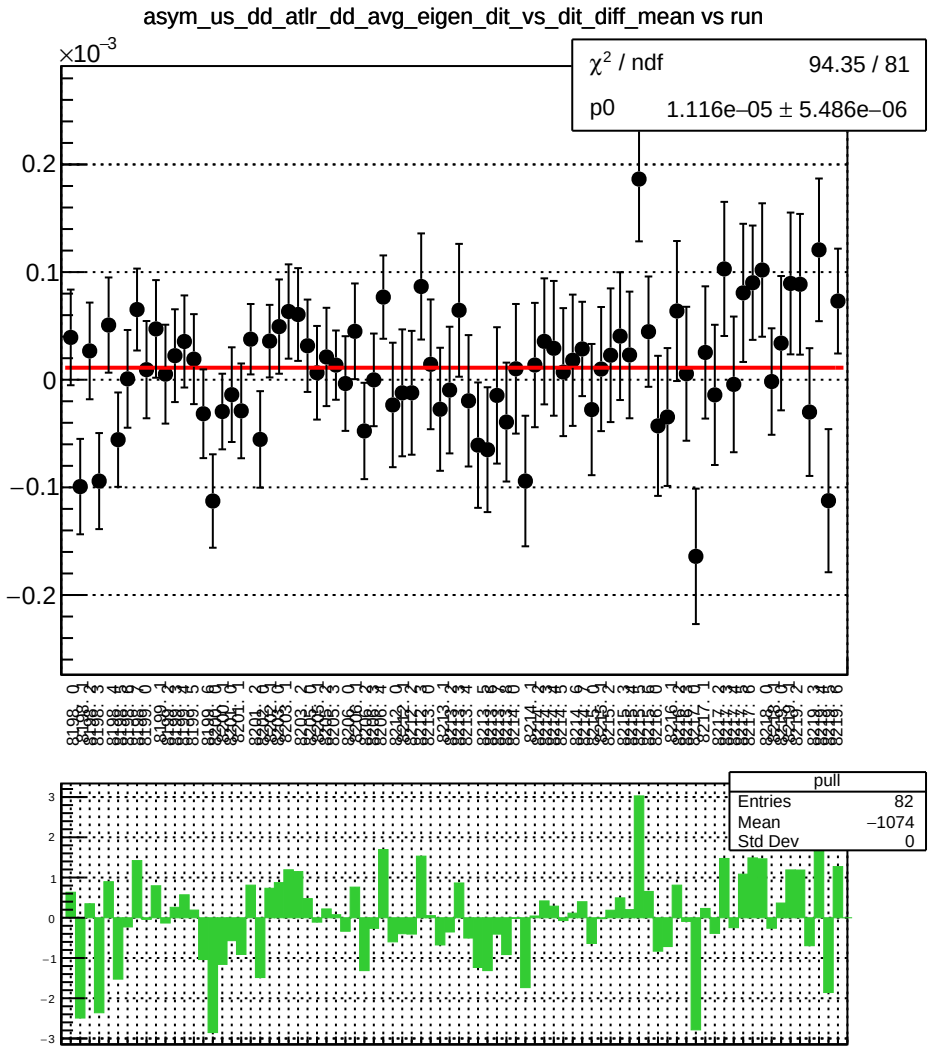

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.623e+05 / 81
p0 2.148e−10 ± 2.646e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

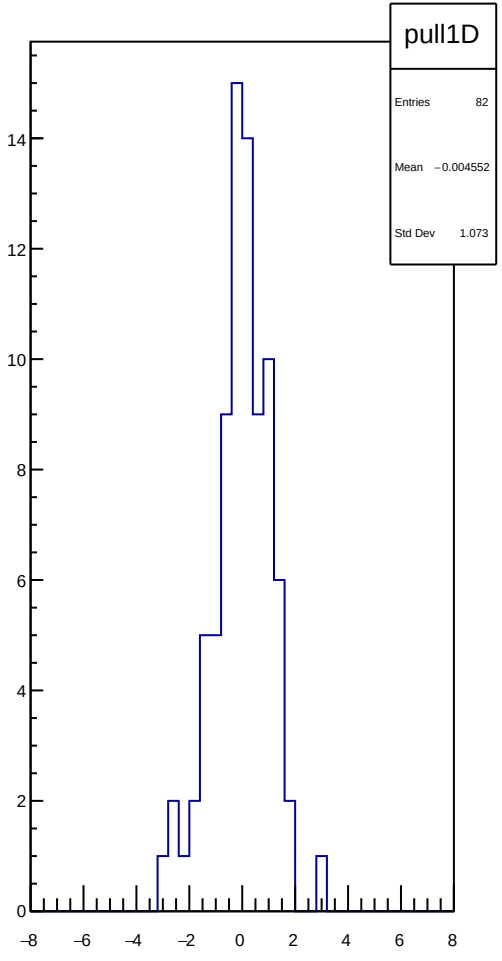

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 113.3 / 81
p0 0.03395 ± 0.07119
pull
Entries 82
Mean 252.2
Std Dev 0
pull1D
Entries 82
Mean −0.03749
Std Dev 1.175

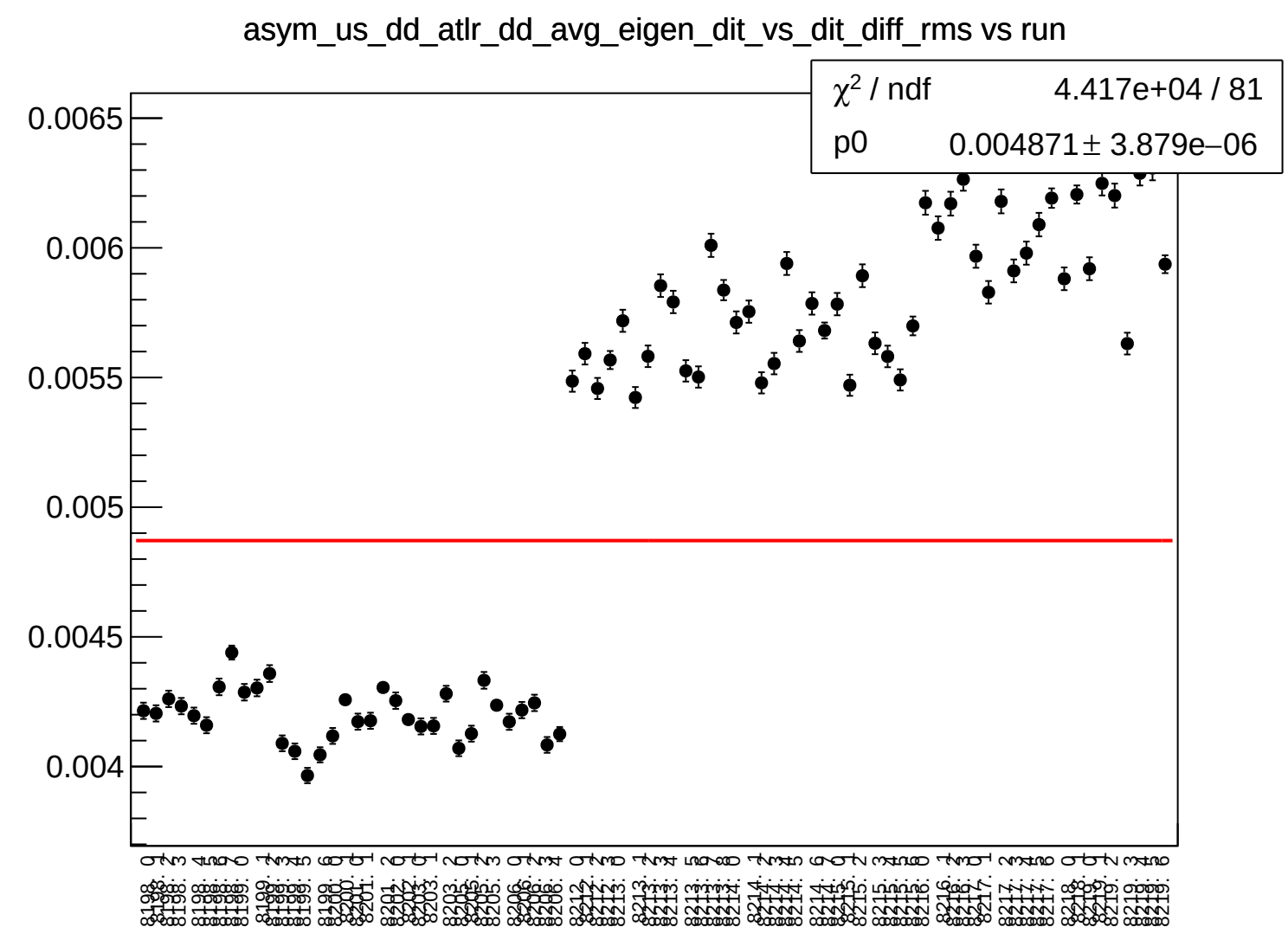

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.436e+05 / 81
p0 61.19 ± 0.05034
120
110
100
90
80
70
60
50
40
30

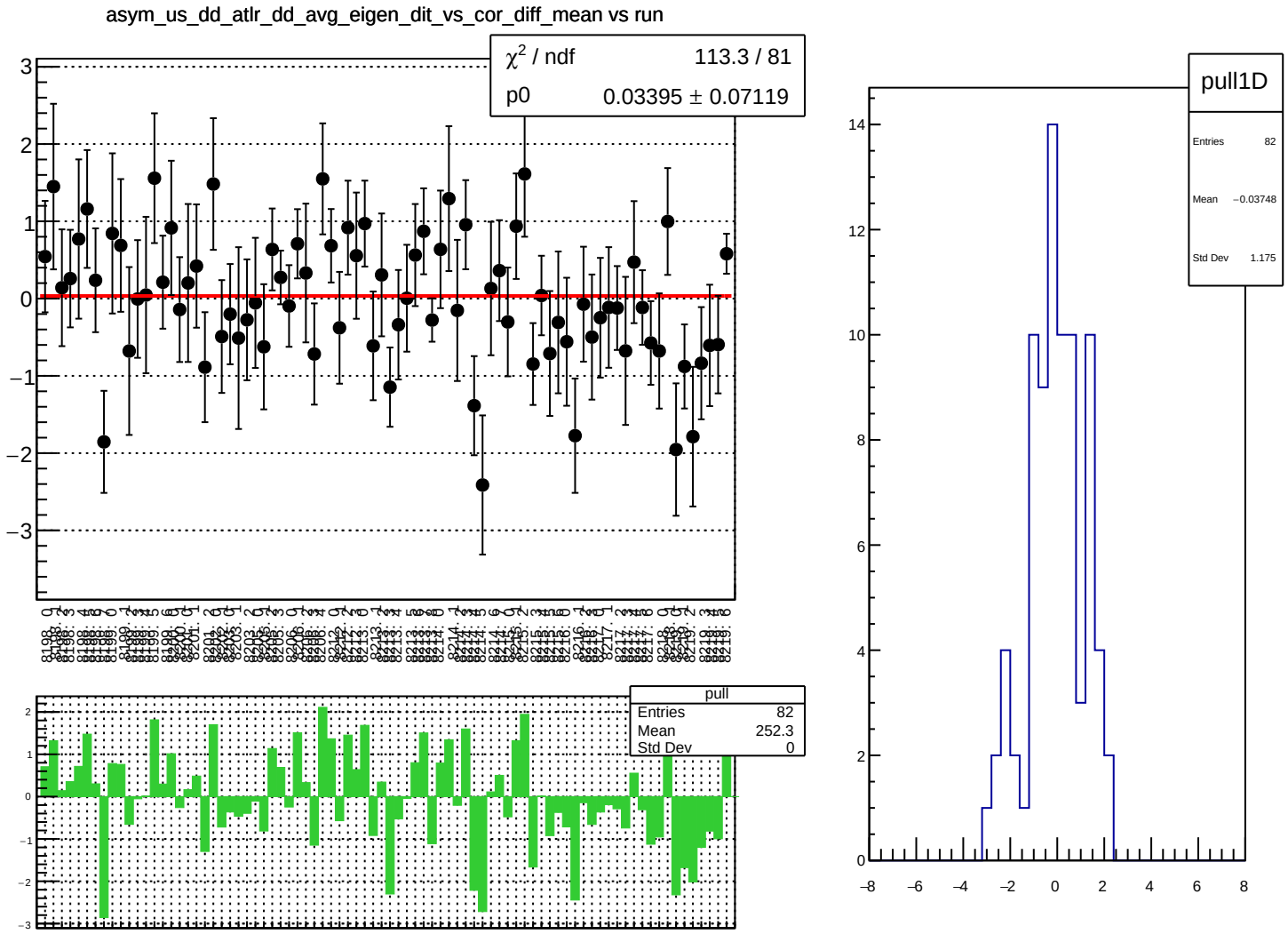

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.3 / 81
p0 0.03395 ± 0.07119
pull
Entries 82
Mean 252.2
Std Dev 0
pull1D
Entries 82
Mean −0.03749
Std Dev 1.175

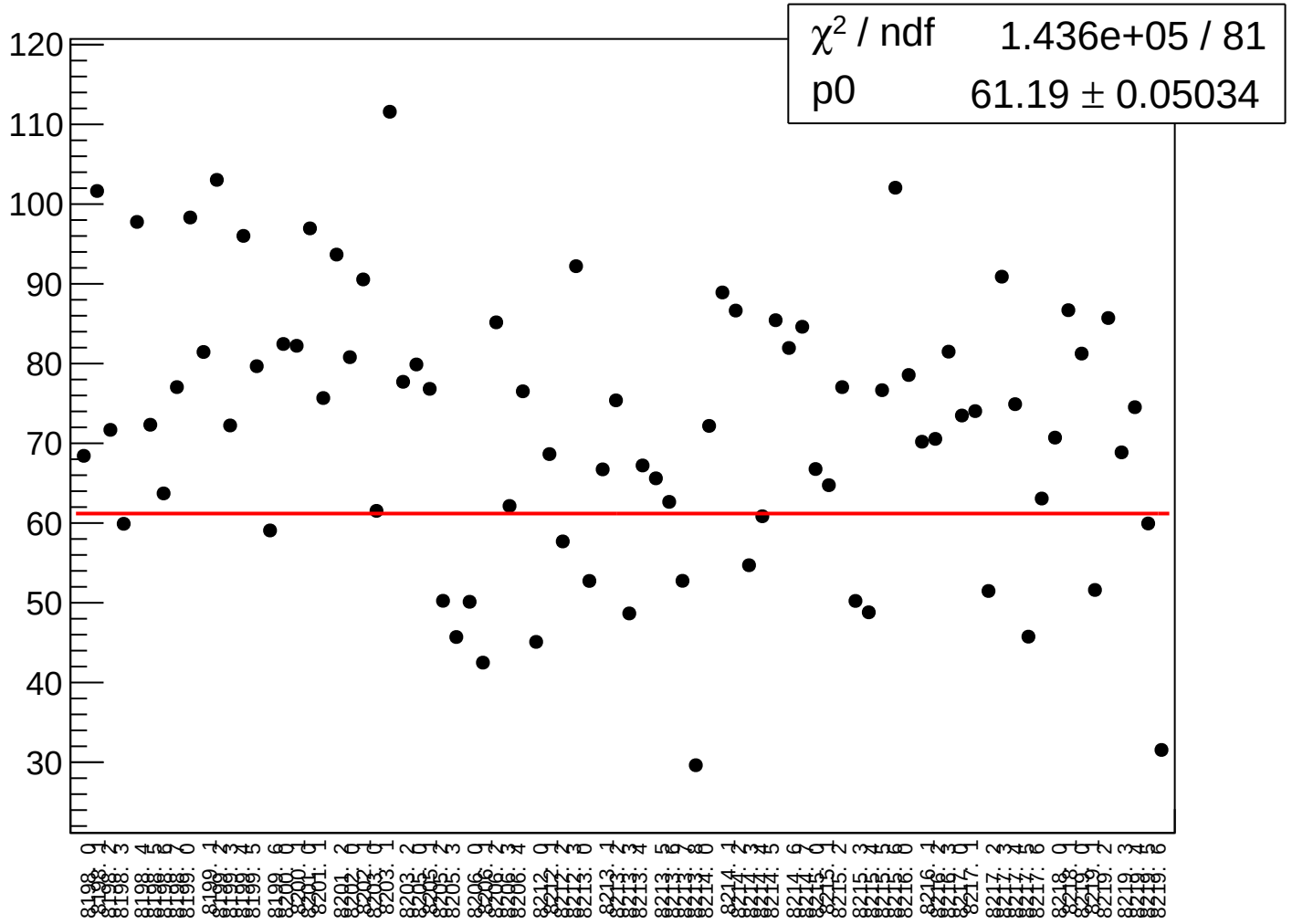

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.436e+05 / 81
p0 61.19 ± 0.05034
120
110
100
90
80
70
60
50
40
30

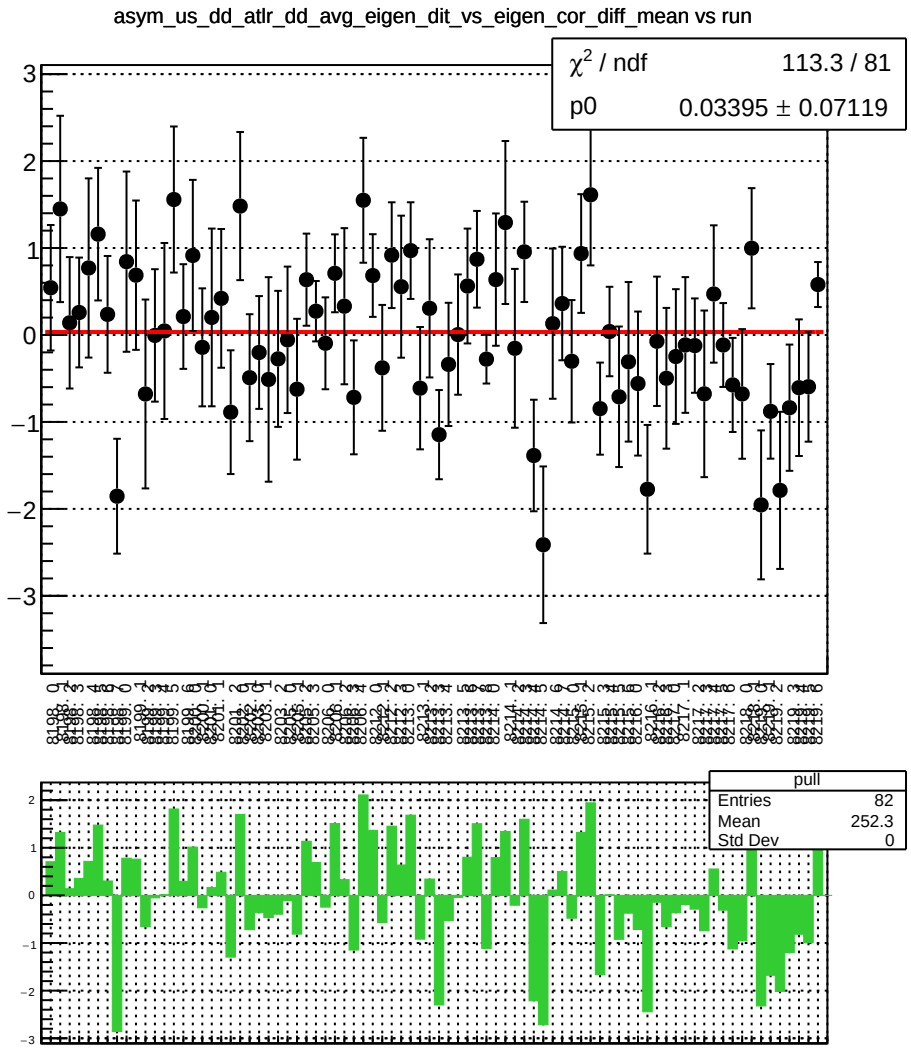

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.35 / 81
p0 1.116e−05 ± 5.486e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 82
Mean −1074
Std Dev 0
3
2
1
0
−1
−2
−3

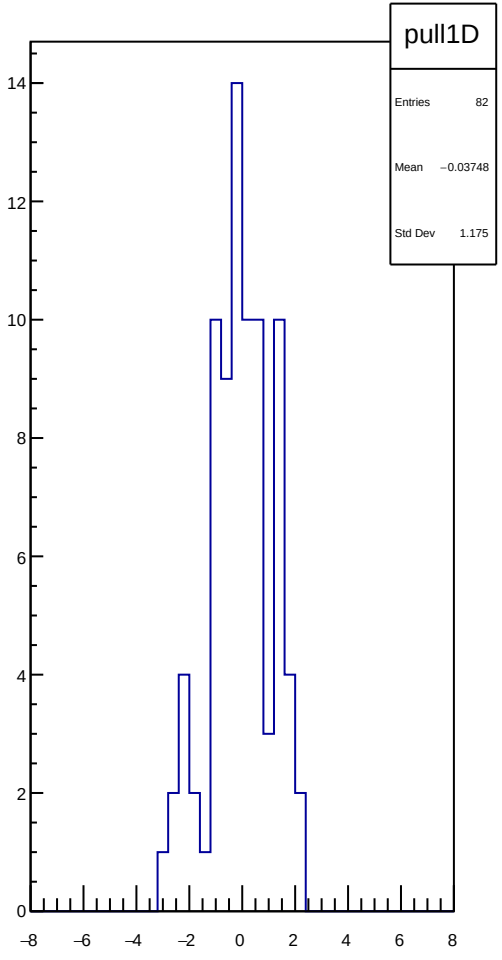

pull1D
Entries 82
Mean −0.004552
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

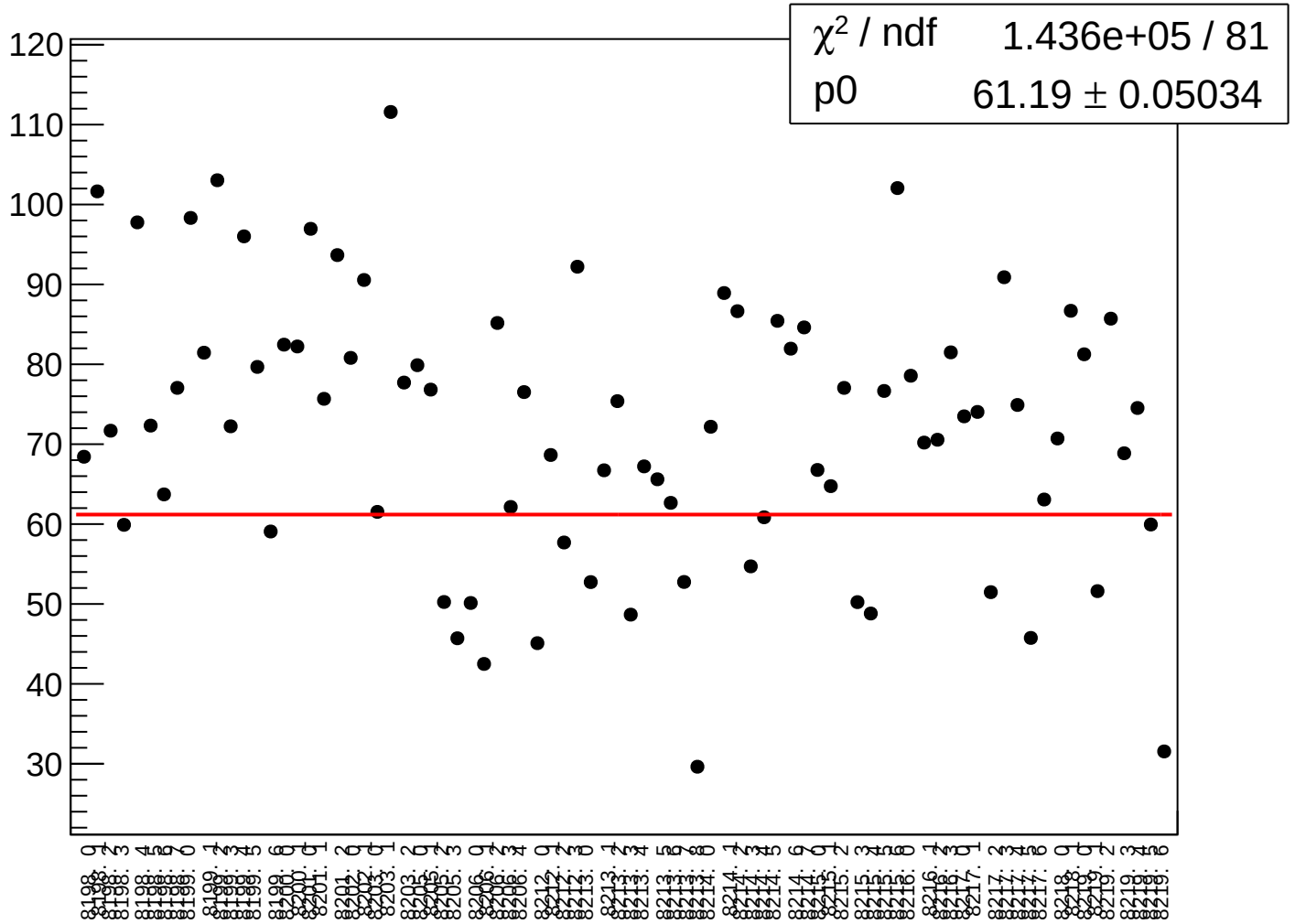

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.417e+04 / 81
p0 0.004871 ± 3.879e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004

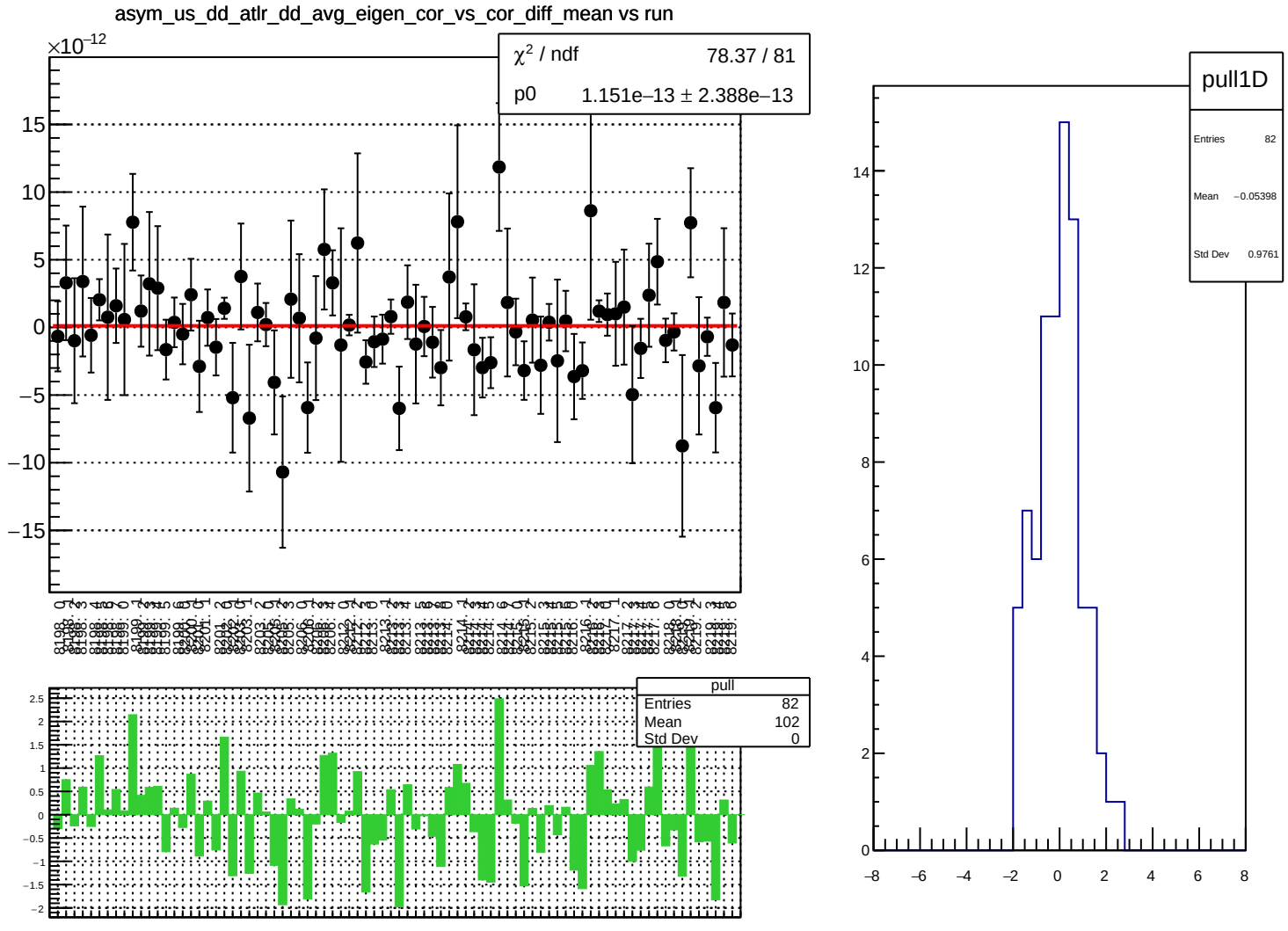

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.3 / 81
p0 0.03395 ± 0.07119
pull
Entries 82
Mean 252.3
Std Dev 0
pull1D
Entries 82
Mean −0.03748
Std Dev 1.175

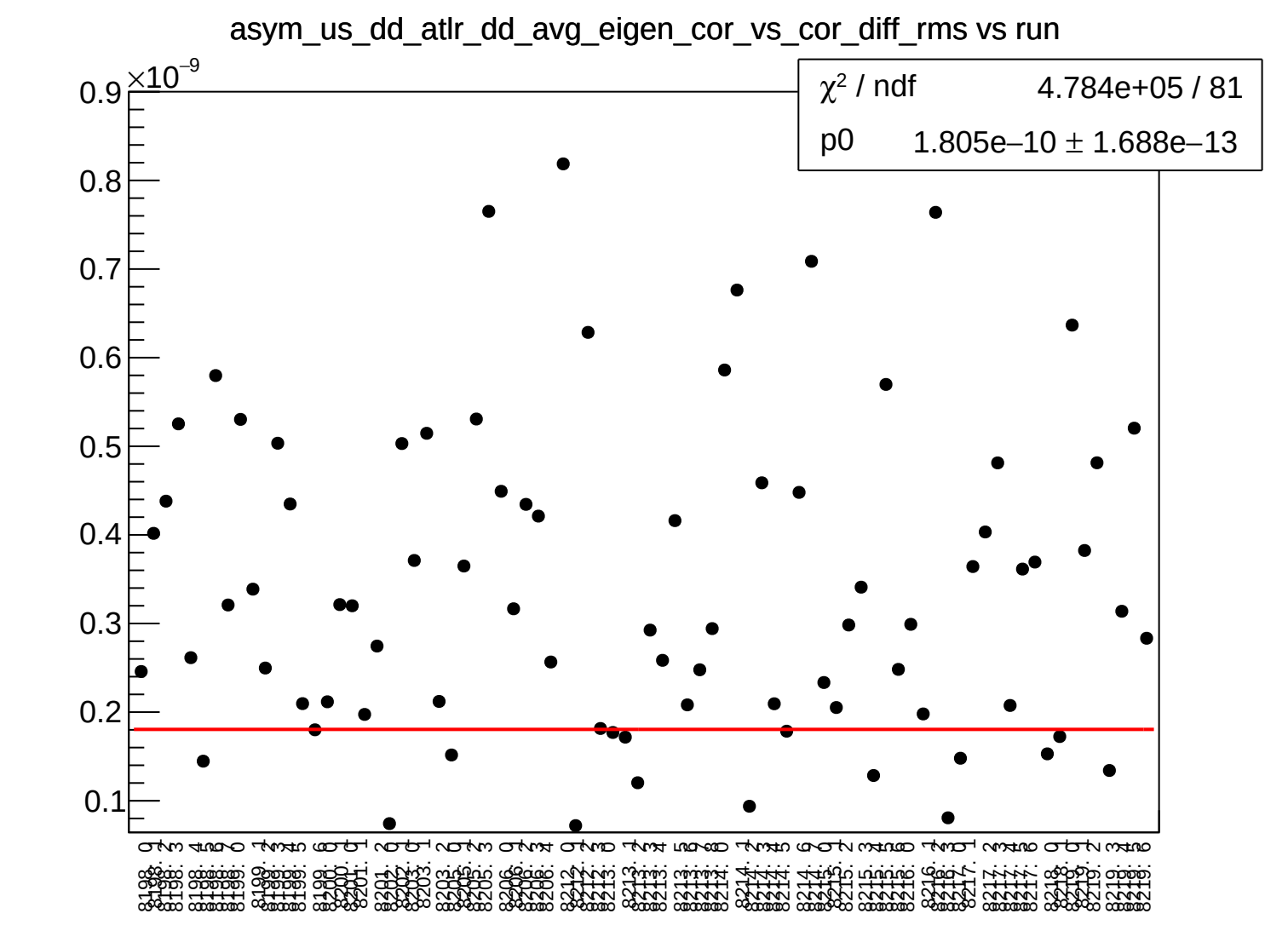

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.436e+05 / 81
p0 61.19 ± 0.05034
120
110
100
90
80
70
60
50
40
30

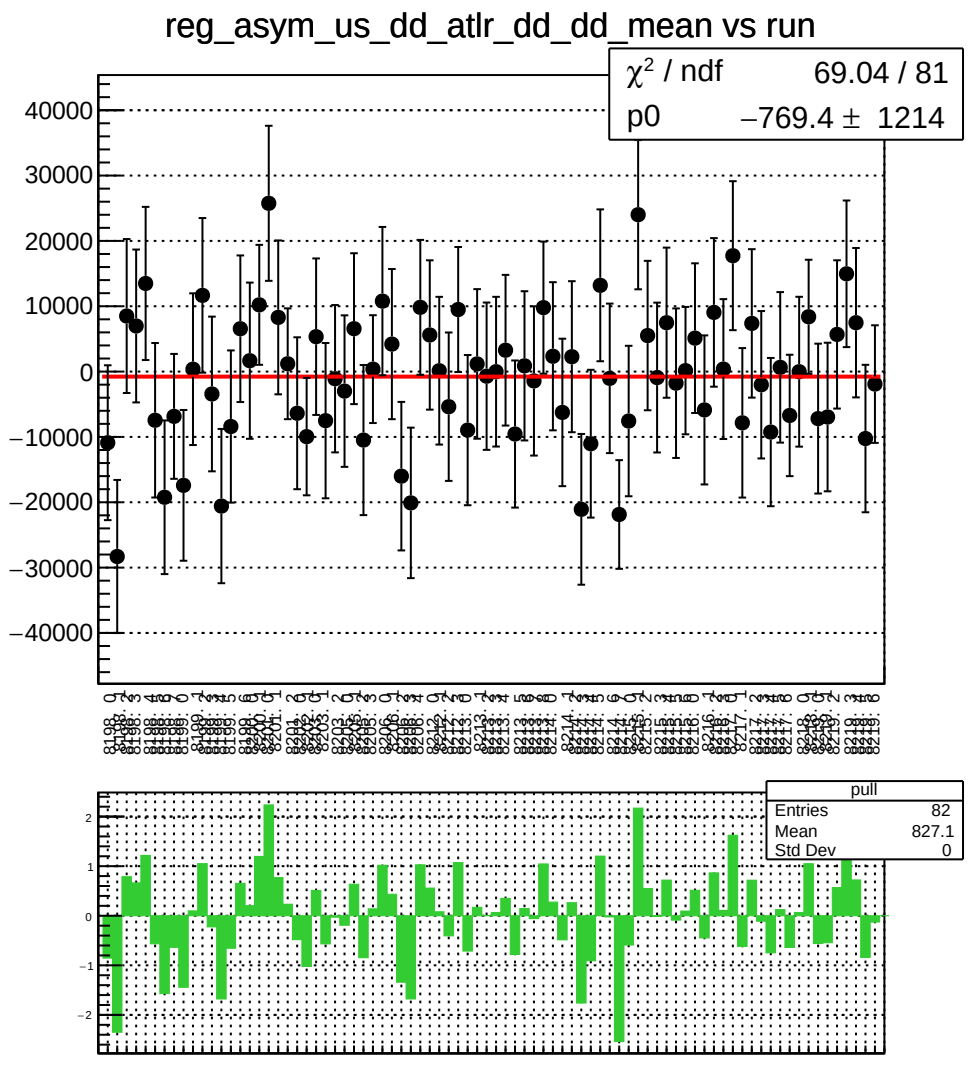

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.3 / 81
p0 0.03395 ± 0.07119
pull
Entries 82
Mean 252.3
Std Dev 0

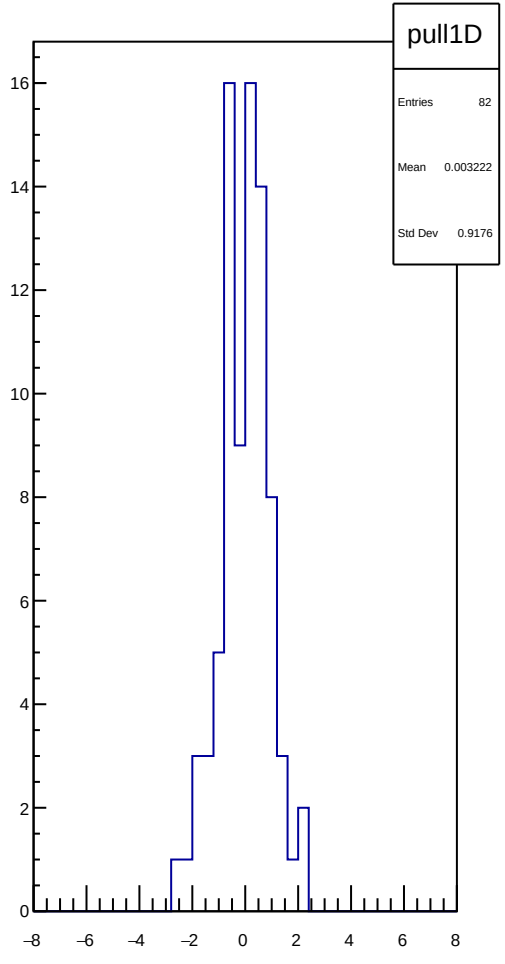

pull1D
Entries 82
Mean −0.03748
Std Dev 1.175

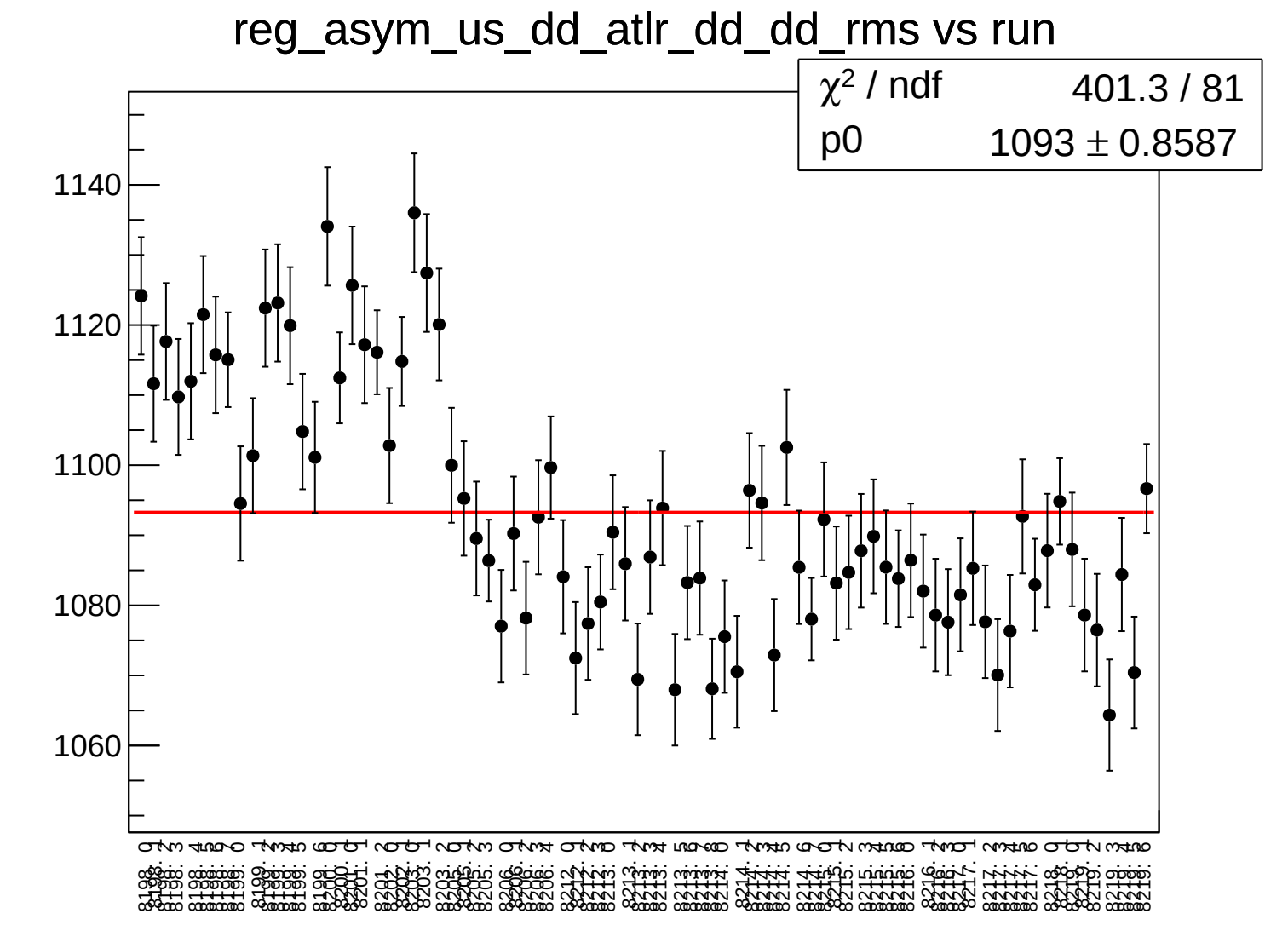

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.436e+05 / 81
p0 61.19 ± 0.05034
120
110
100
90
80
70
60
50
40
30

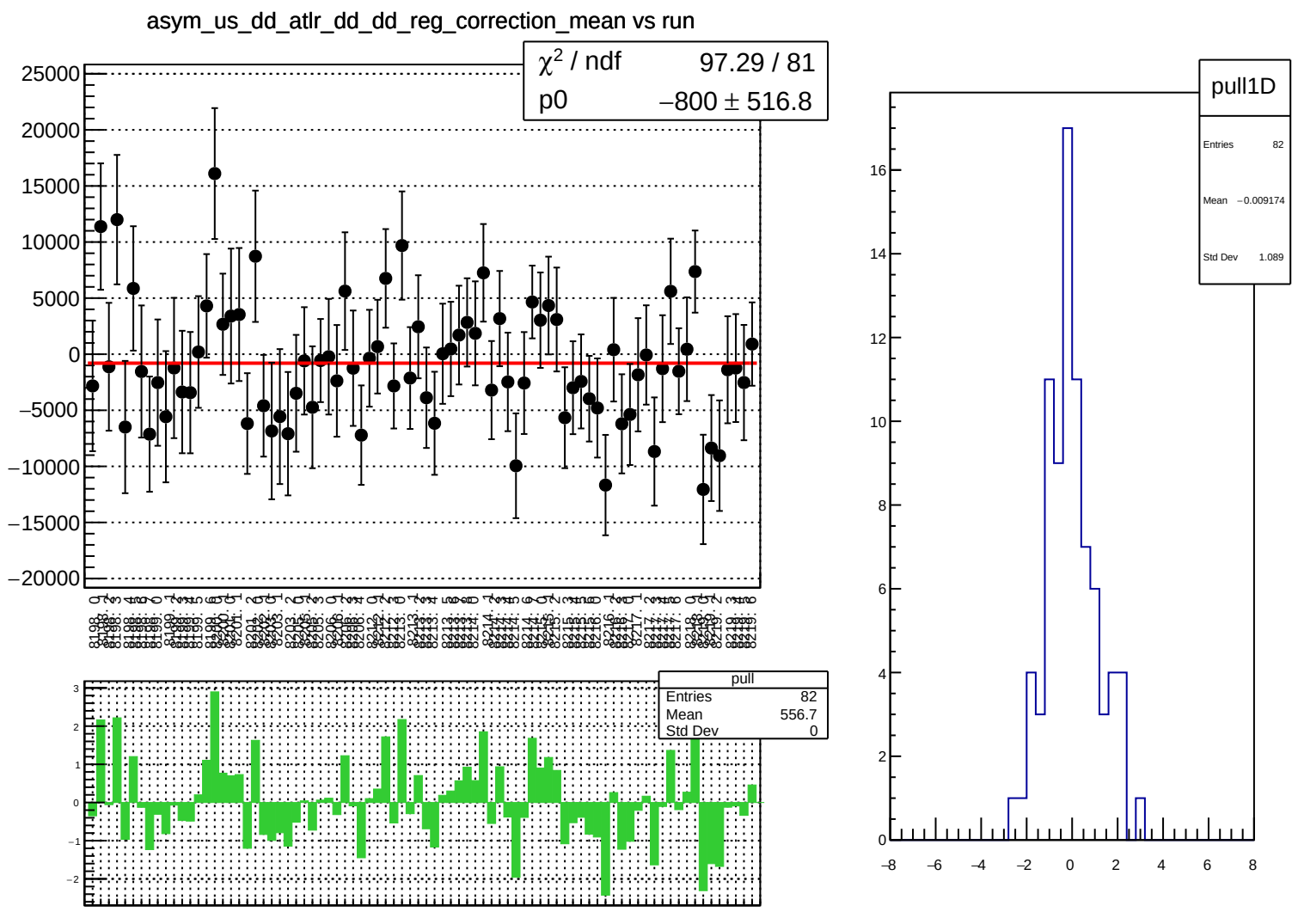

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 78.37 / 81
p0 1.151e−13 ± 2.388e−13
pull
Entries 82
Mean 102
Std Dev 0
pull1D
Entries 82
Mean −0.05398
Std Dev 0.9761

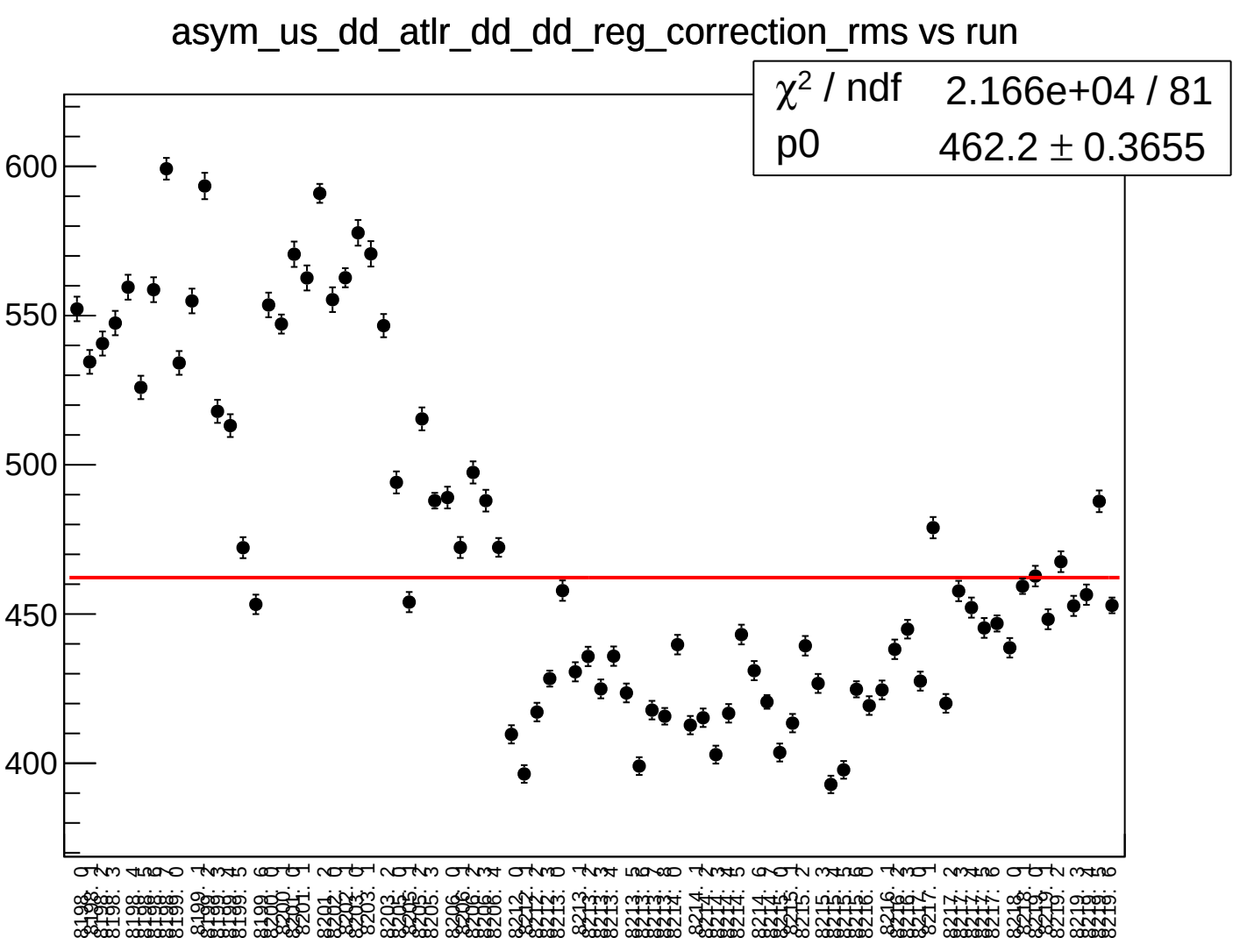

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.784e+05 / 81
p0 1.805e−10 ± 1.688e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

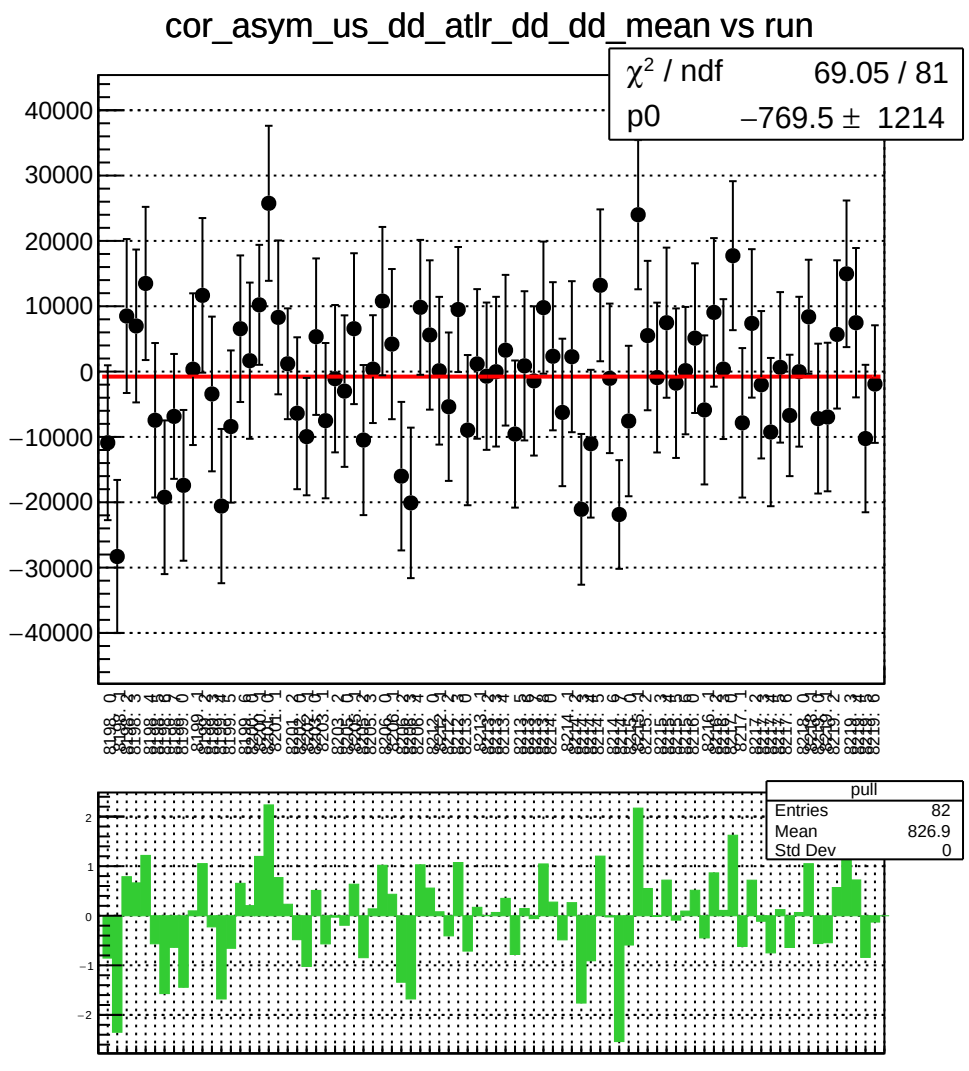

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 69.04 / 81
p0 −769.4 ± 1214
pull
Entries 82
Mean 827.1
Std Dev 0

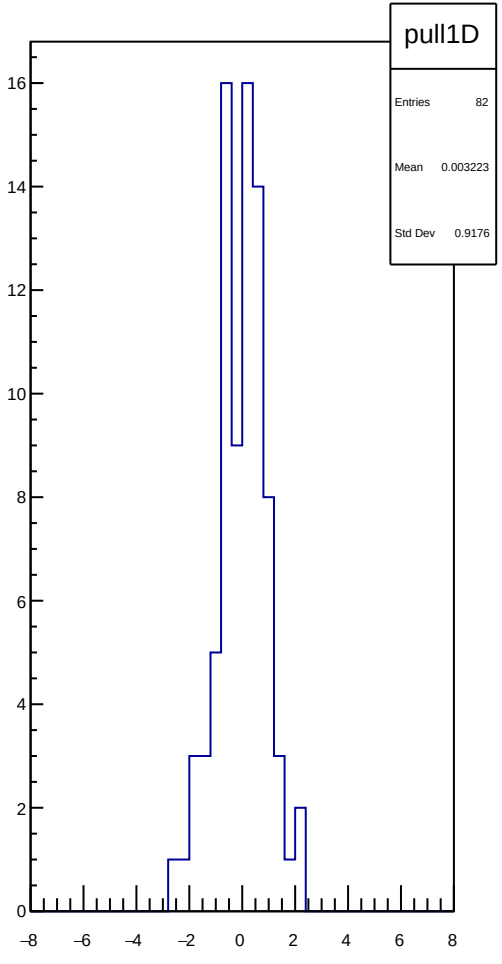

pull1D
Entries 82
Mean 0.003222
Std Dev 0.9176

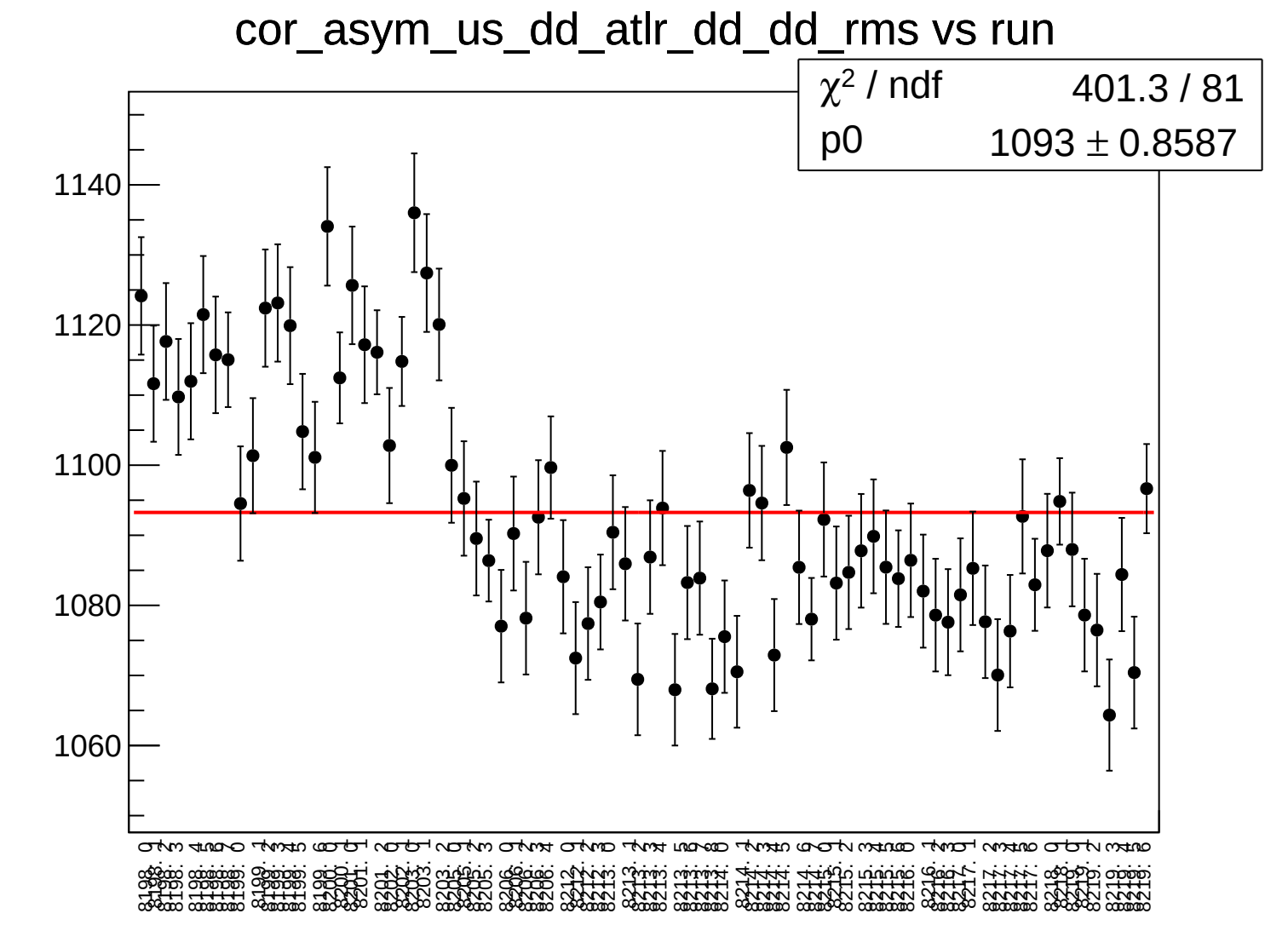

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 401.3 / 81
p0 1093 ± 0.8587
1140
1120
1100
1080
1060

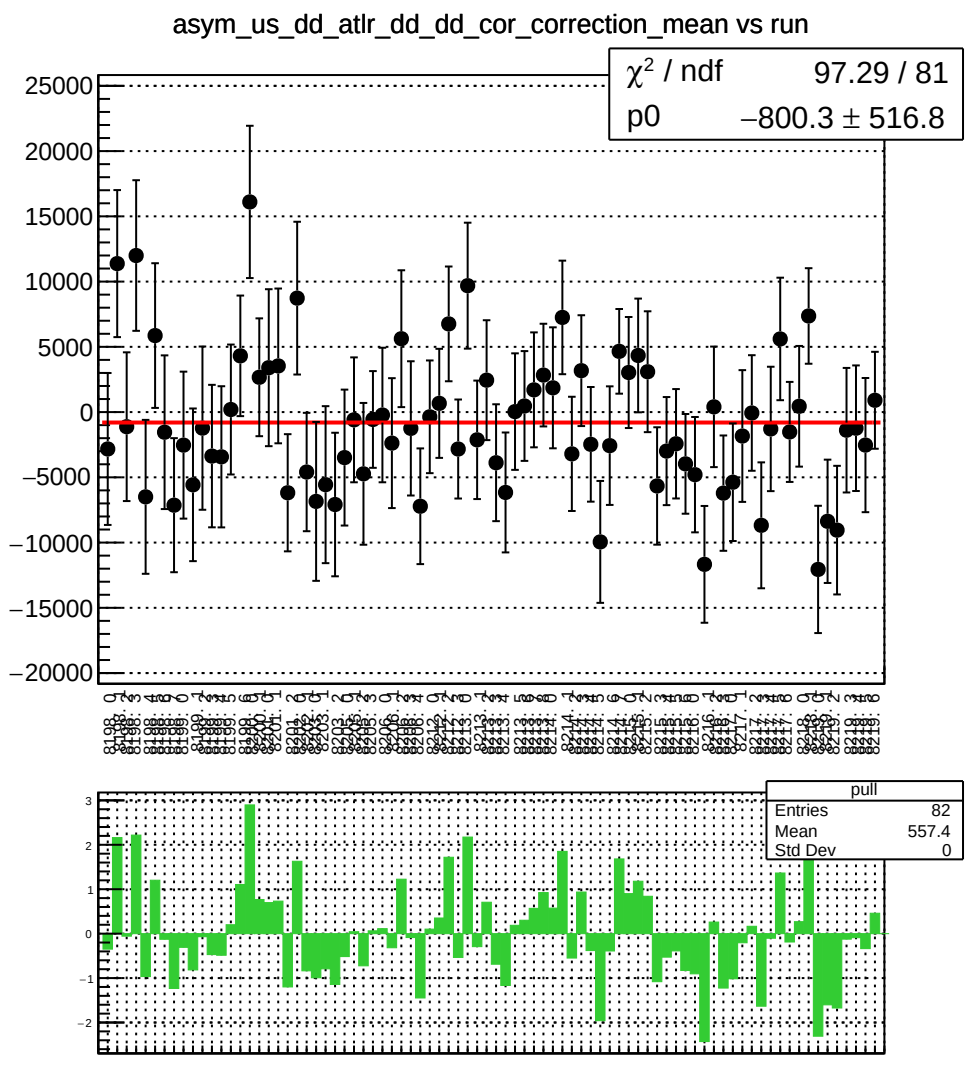

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 97.29 / 81
p0 −800 ± 516.8
pull
Entries 82
Mean 556.7
Std Dev 0
pull1D
Entries 82
Mean −0.009174
Std Dev 1.089

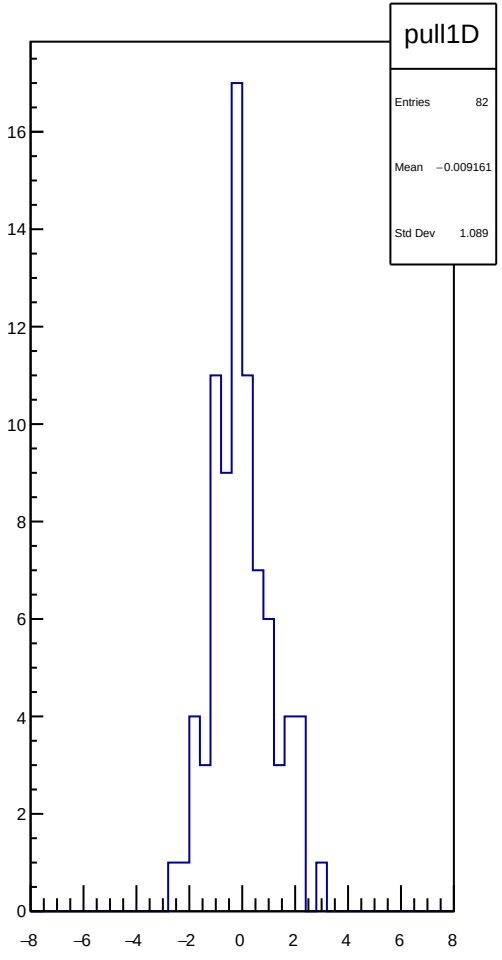

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.166e+04 / 81
p0 462.2 ± 0.3655
600
550
500
450
400

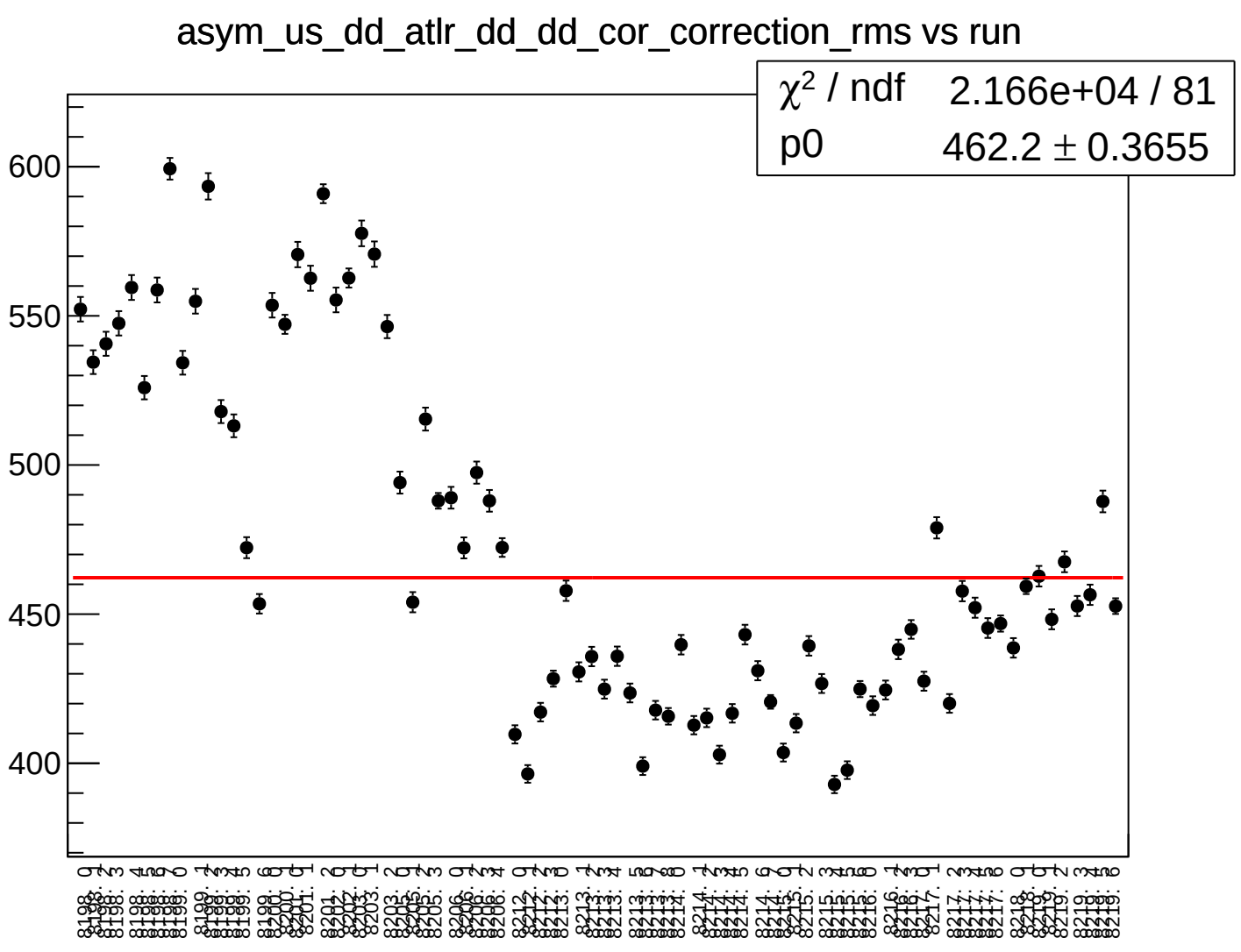

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 69.05 / 81
p0 −769.5 ± 1214
pull
Entries 82
Mean 826.9
Std Dev 0

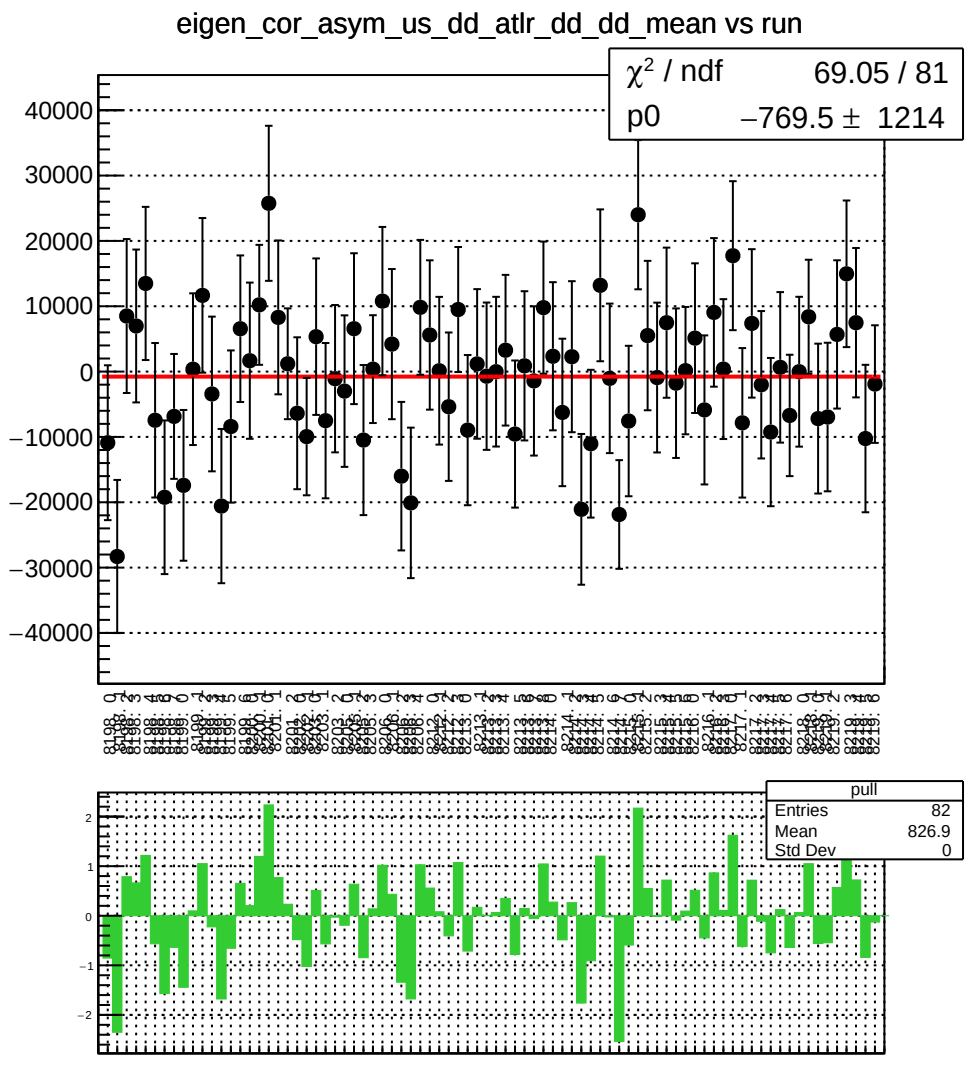

pull1D
Entries 82
Mean 0.003223
Std Dev 0.9176

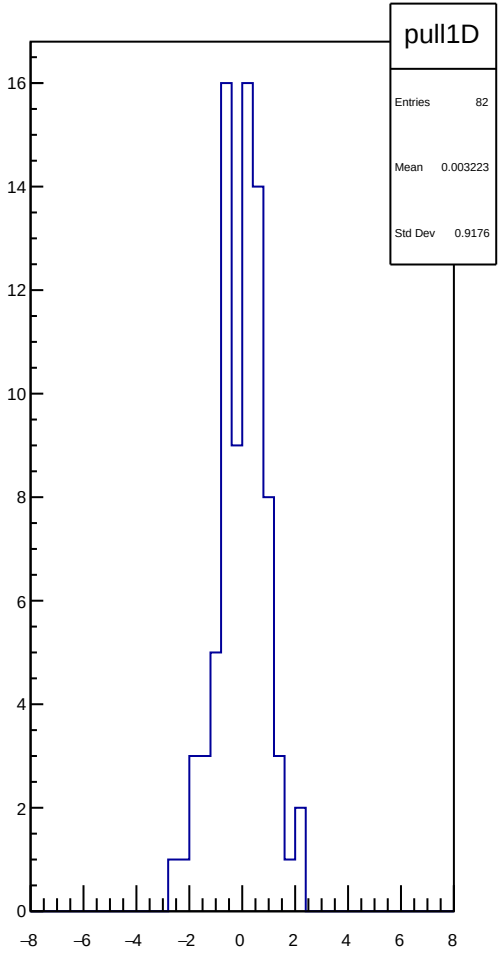

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 401.3 / 81
p0 1093 ± 0.8587
1140
1120
1100
1080
1060

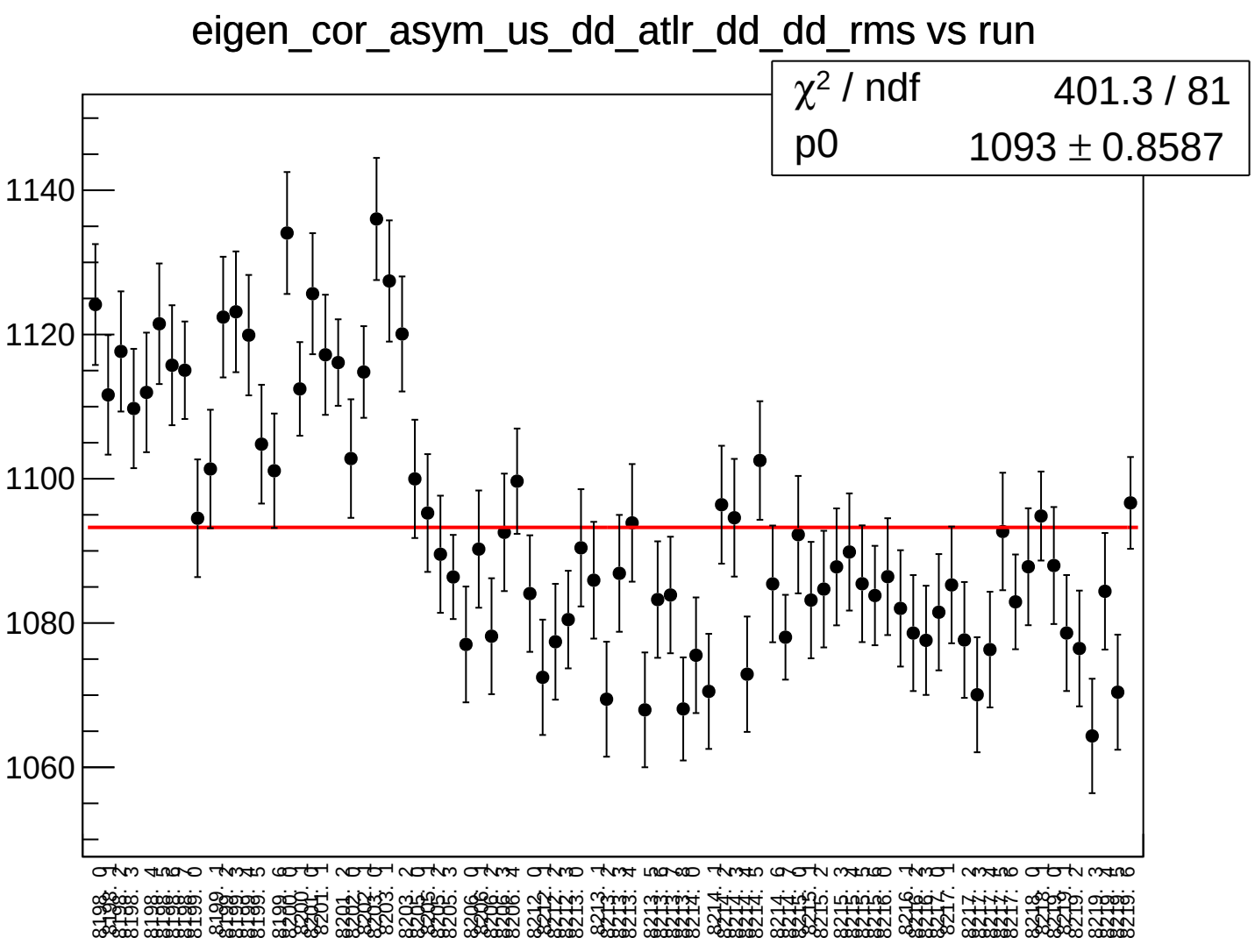

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 97.29 / 81
p0 −800.3 ± 516.8
pull
Entries 82
Mean 557.4
Std Dev 0

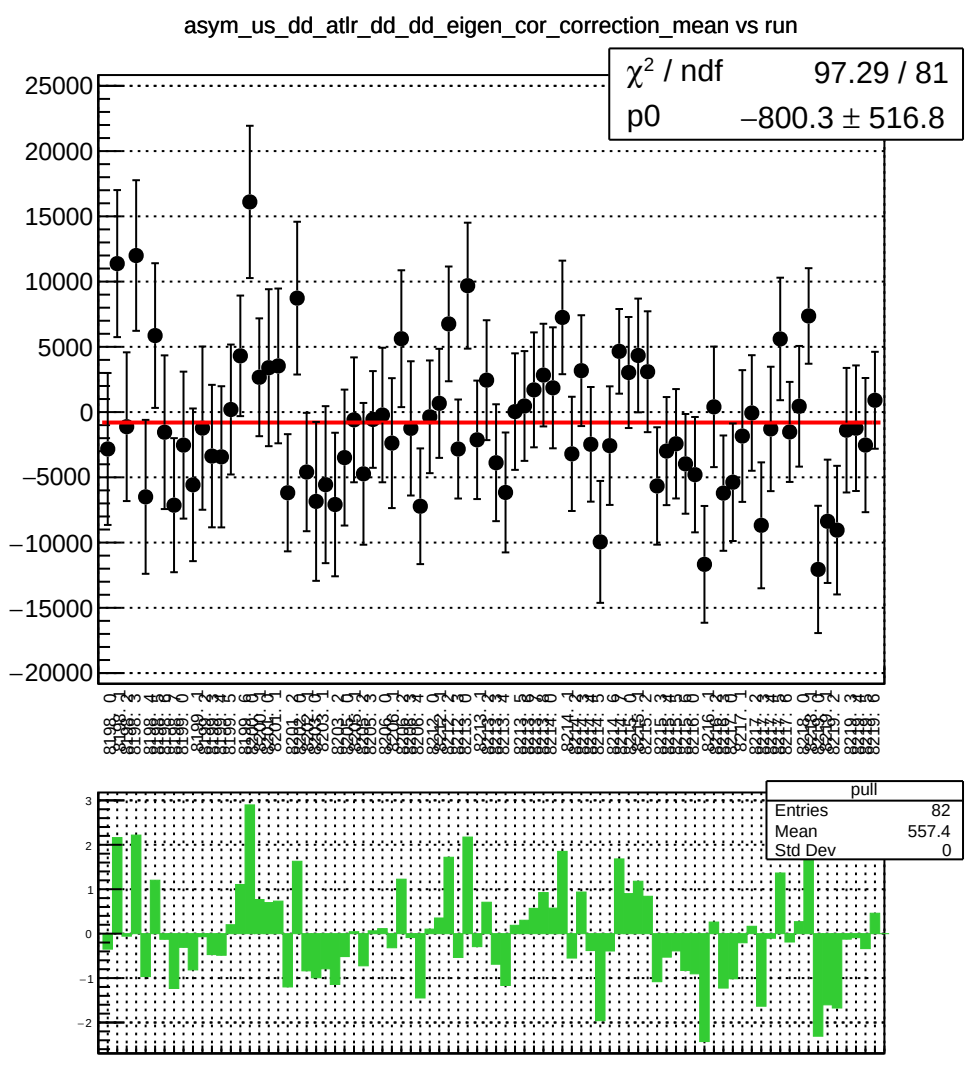

pull1D
Entries 82
Mean −0.009161
Std Dev 1.089

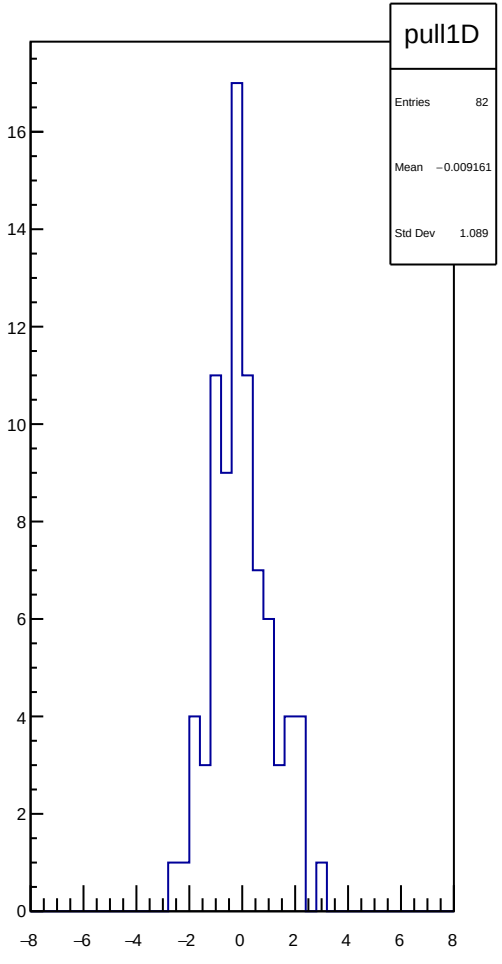

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.166e+04 / 81
p0 462.2 ± 0.3655
600
550
500
450
400

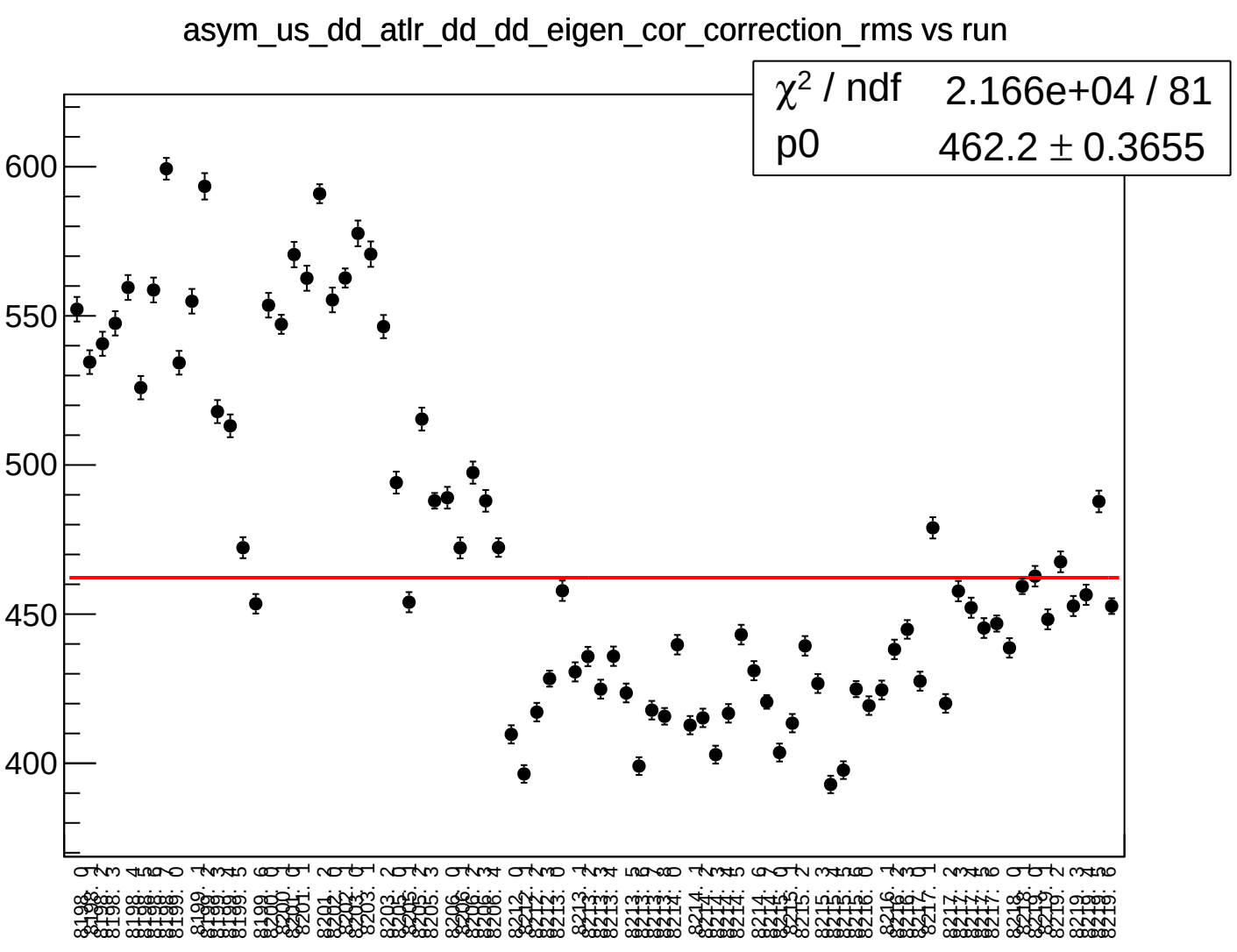

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 69.05 / 81
p0 −769.5 ± 1214
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean 826.9
Std Dev 0
2
1
0
−1
−2

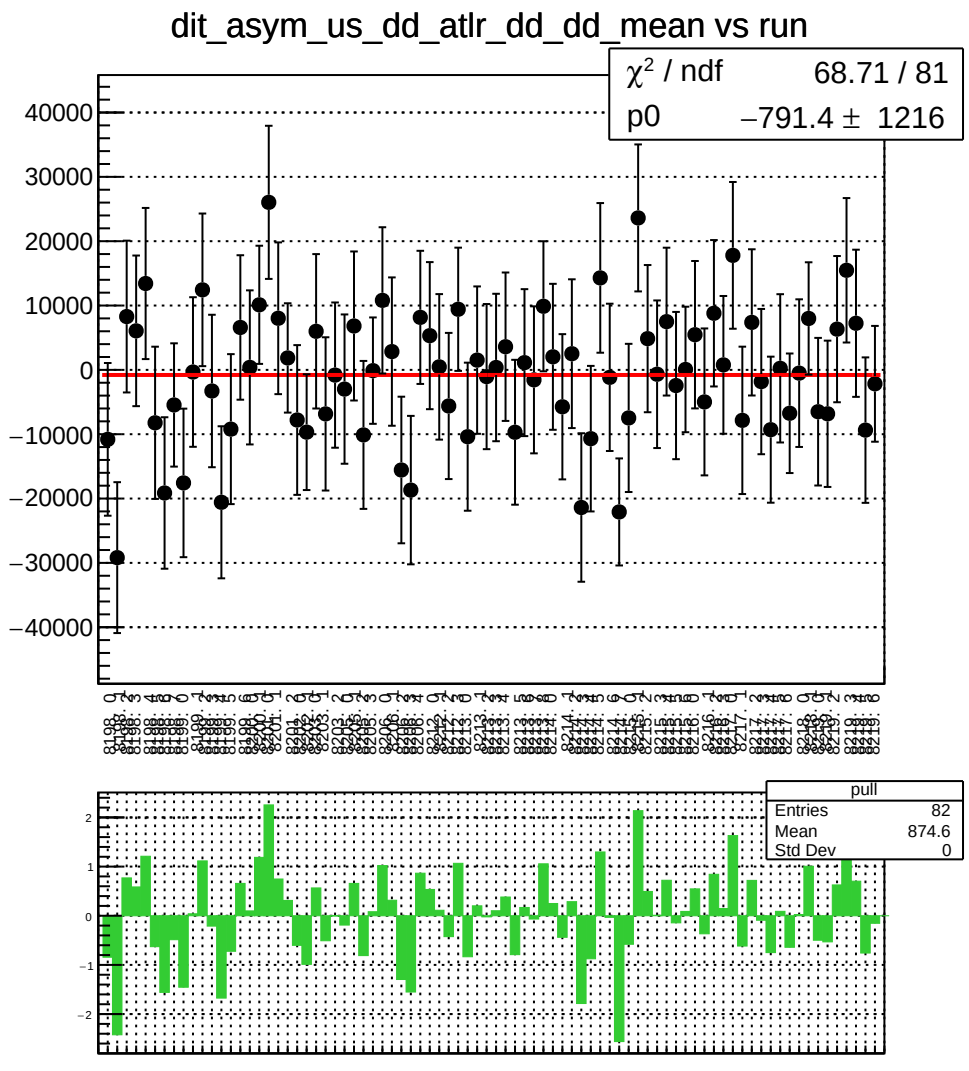

pull1D
Entries 82
Mean 0.003223
Std Dev 0.9176
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

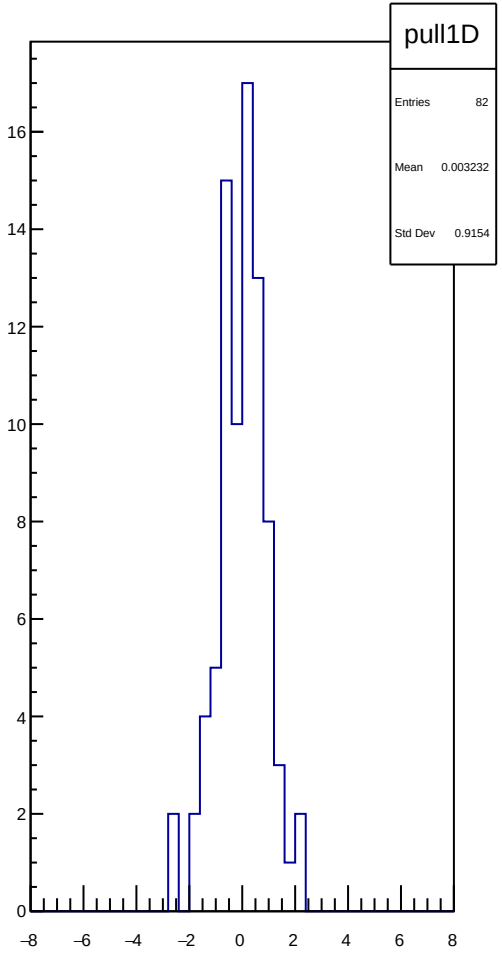

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 401.3 / 81
p0 1093 ± 0.8587
1140
1120
1100
1080
1060

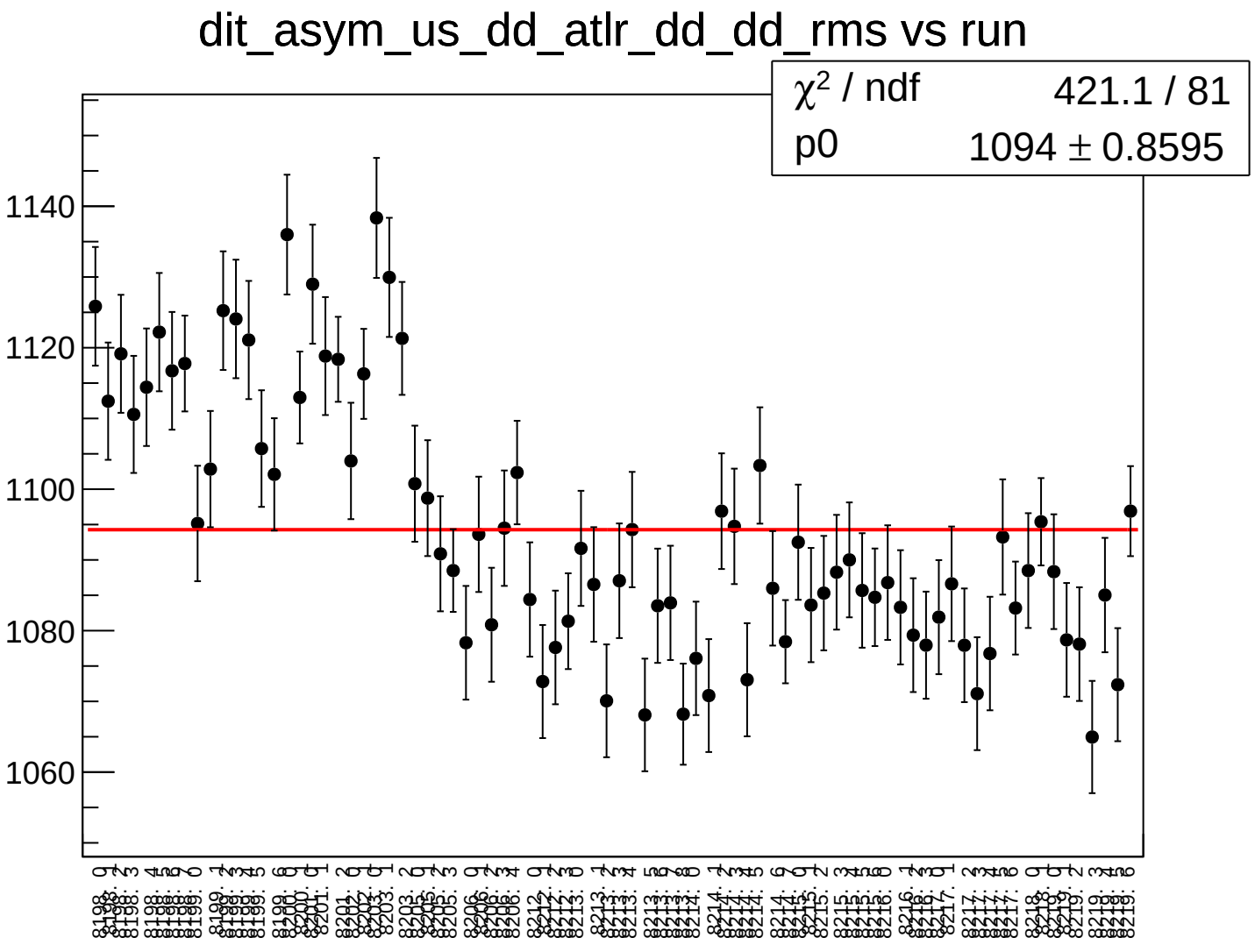

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.29 / 81
p0 −800.3 ± 516.8
pull
Entries 82
Mean 557.4
Std Dev 0

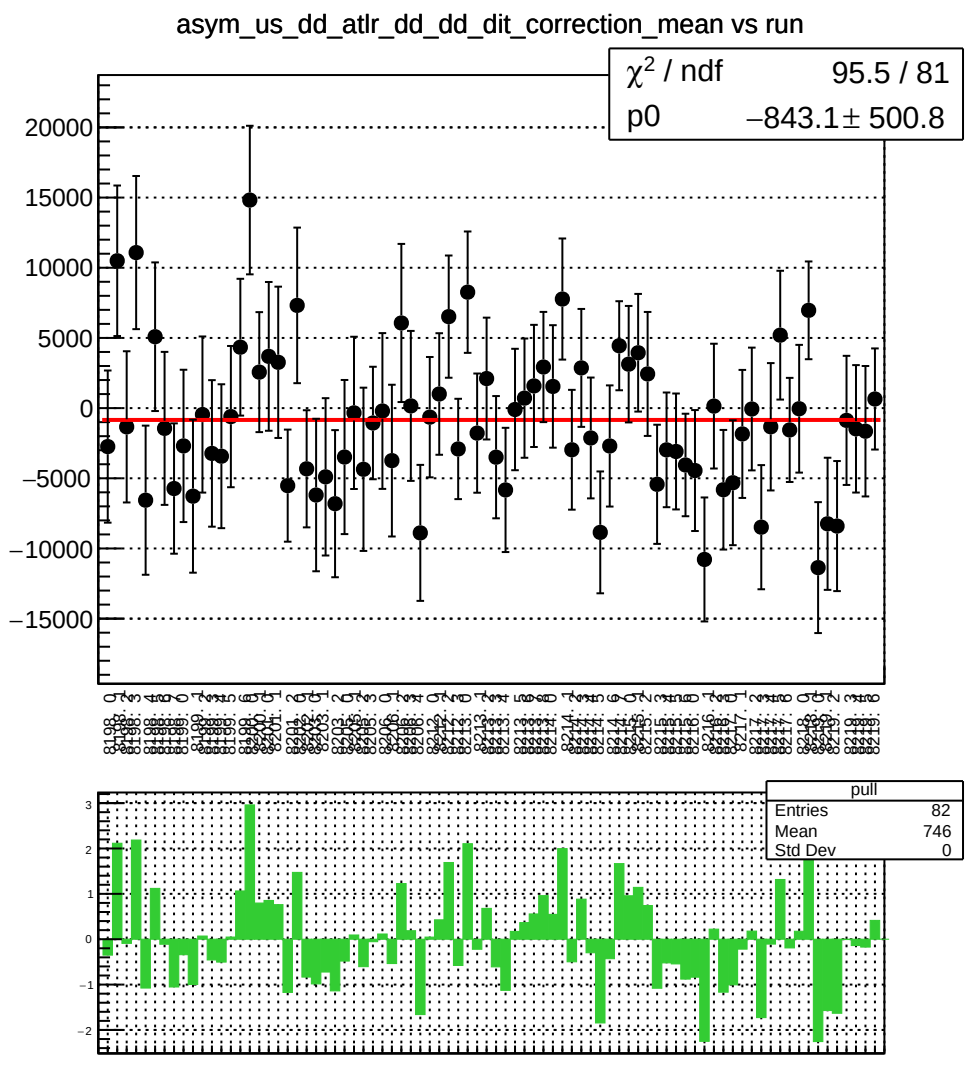

pull1D
Entries 82
Mean −0.009161
Std Dev 1.089

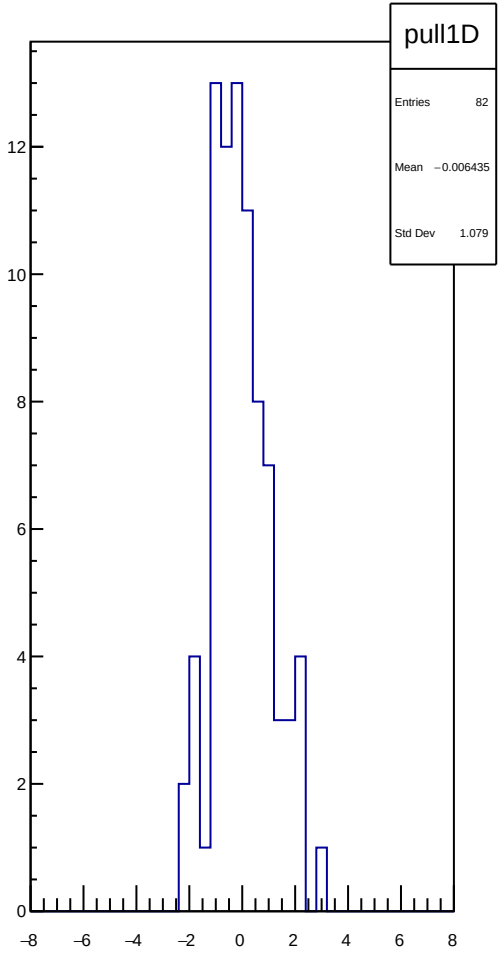

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.166e+04 / 81
p0 462.2 ± 0.3655
600
550
500
450
400

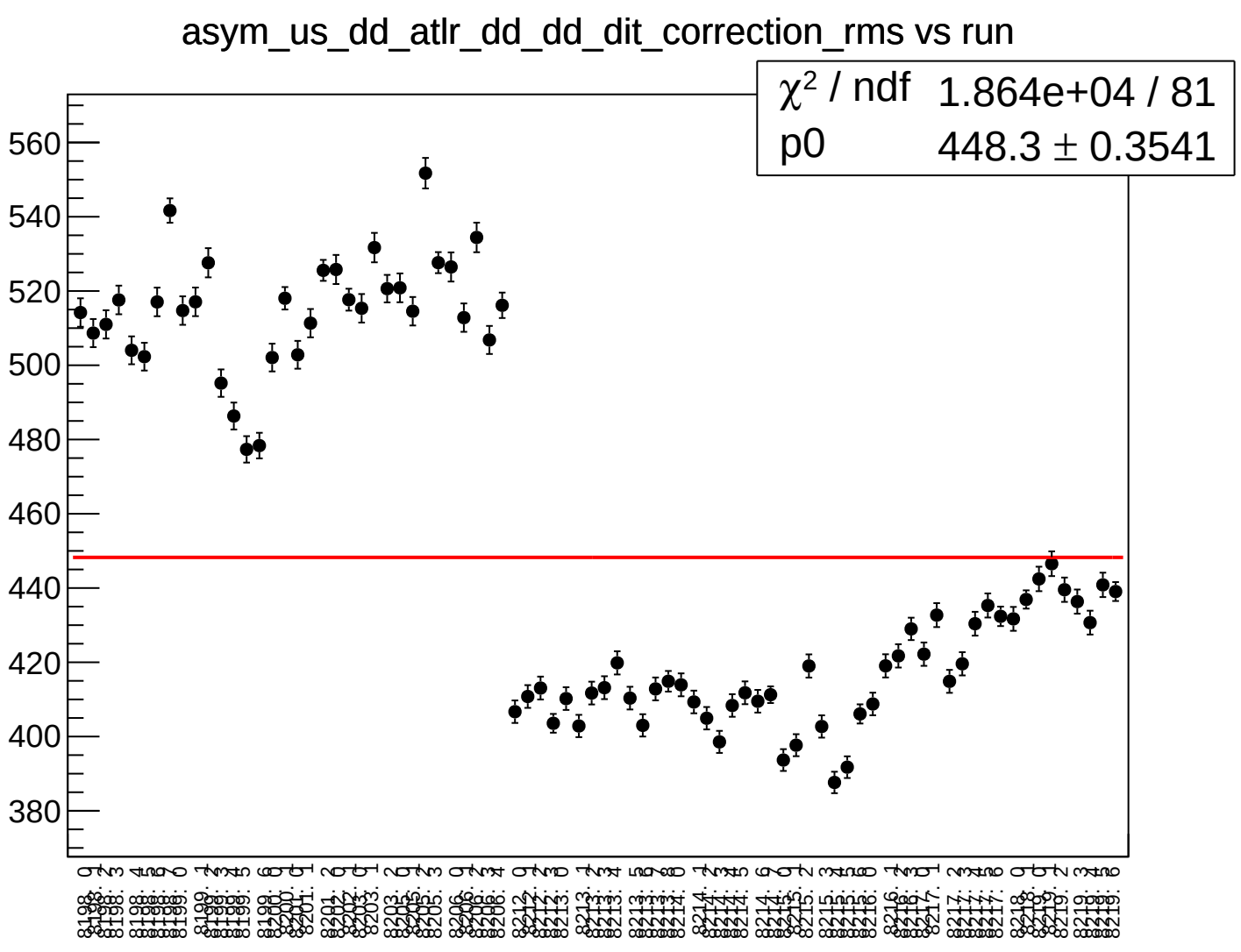

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 68.71 / 81
p0 −791.4 ± 1216
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean 874.6
Std Dev 0
2
1
0
−1
−2

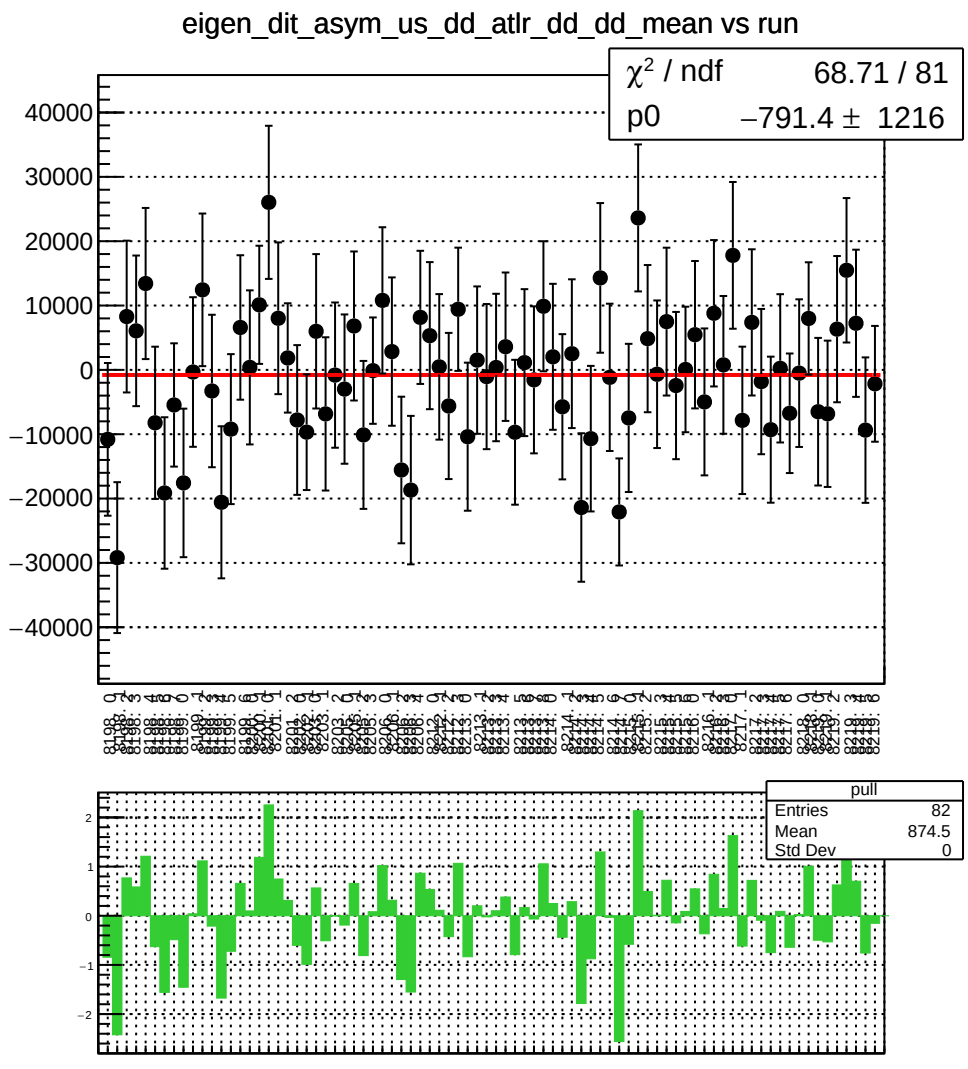

pull1D
Entries 82
Mean 0.003232
Std Dev 0.9154
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

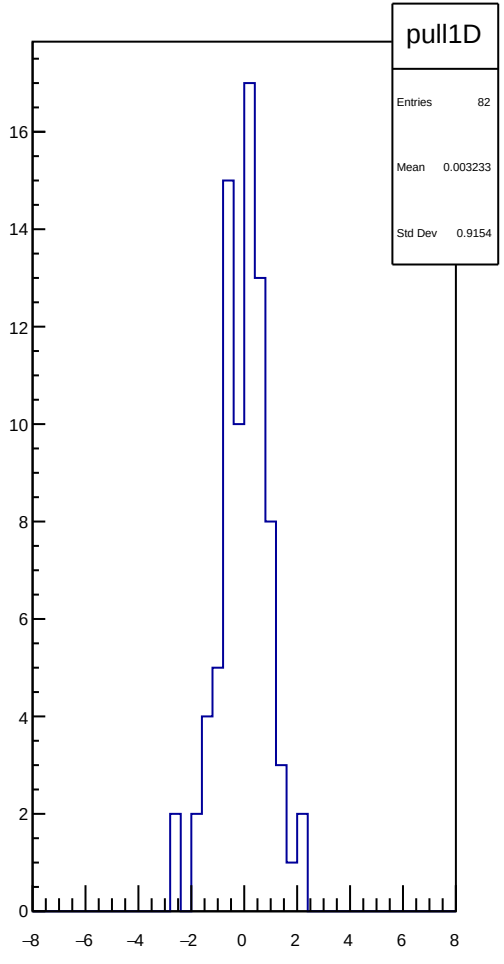

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 421.1 / 81
p0 1094 ± 0.8595
1140
1120
1100
1080
1060

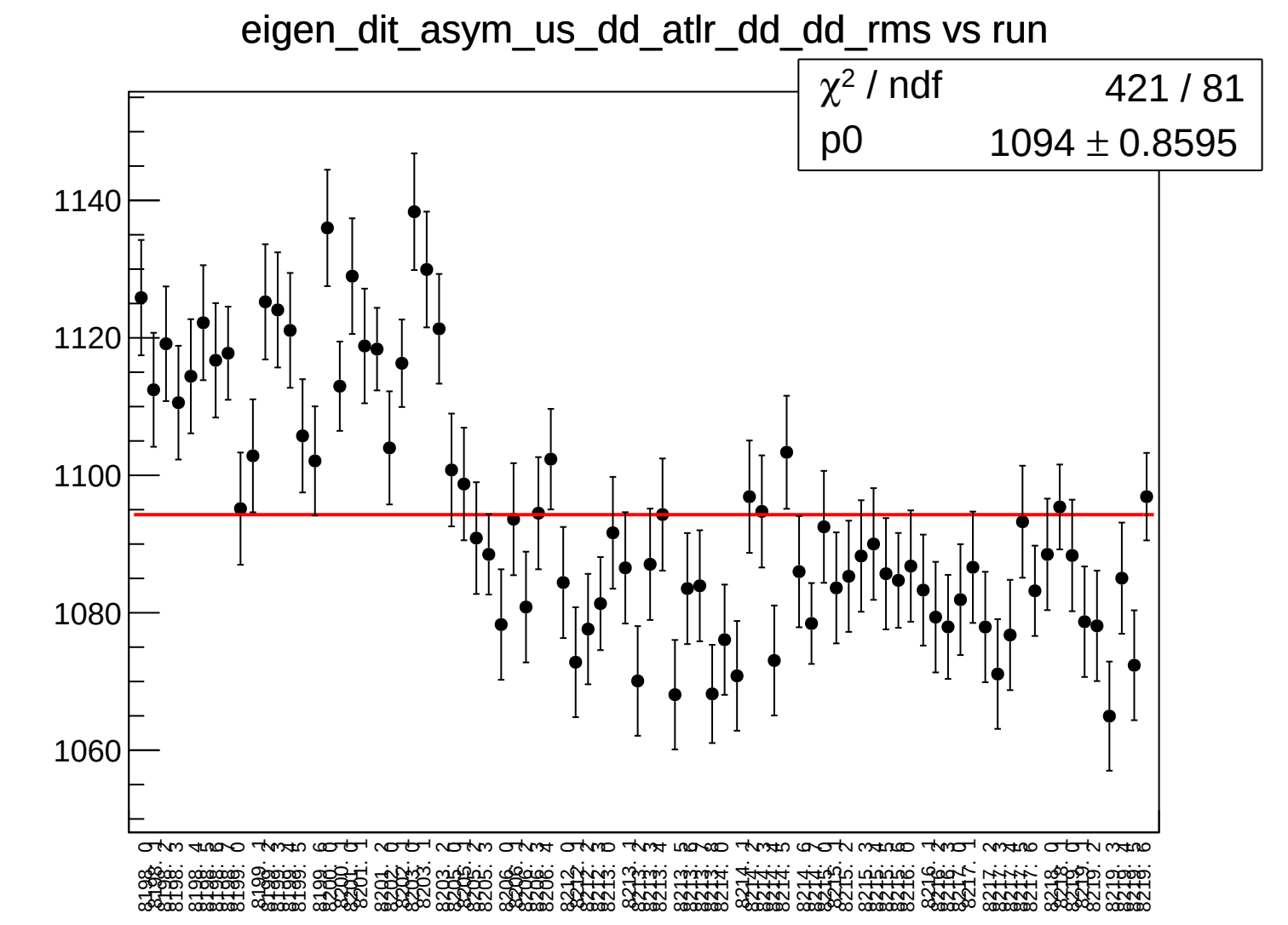

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 95.5 / 81
p0 −843.1 ± 500.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 746
Std Dev 0
3
2
1
0
−1
−2

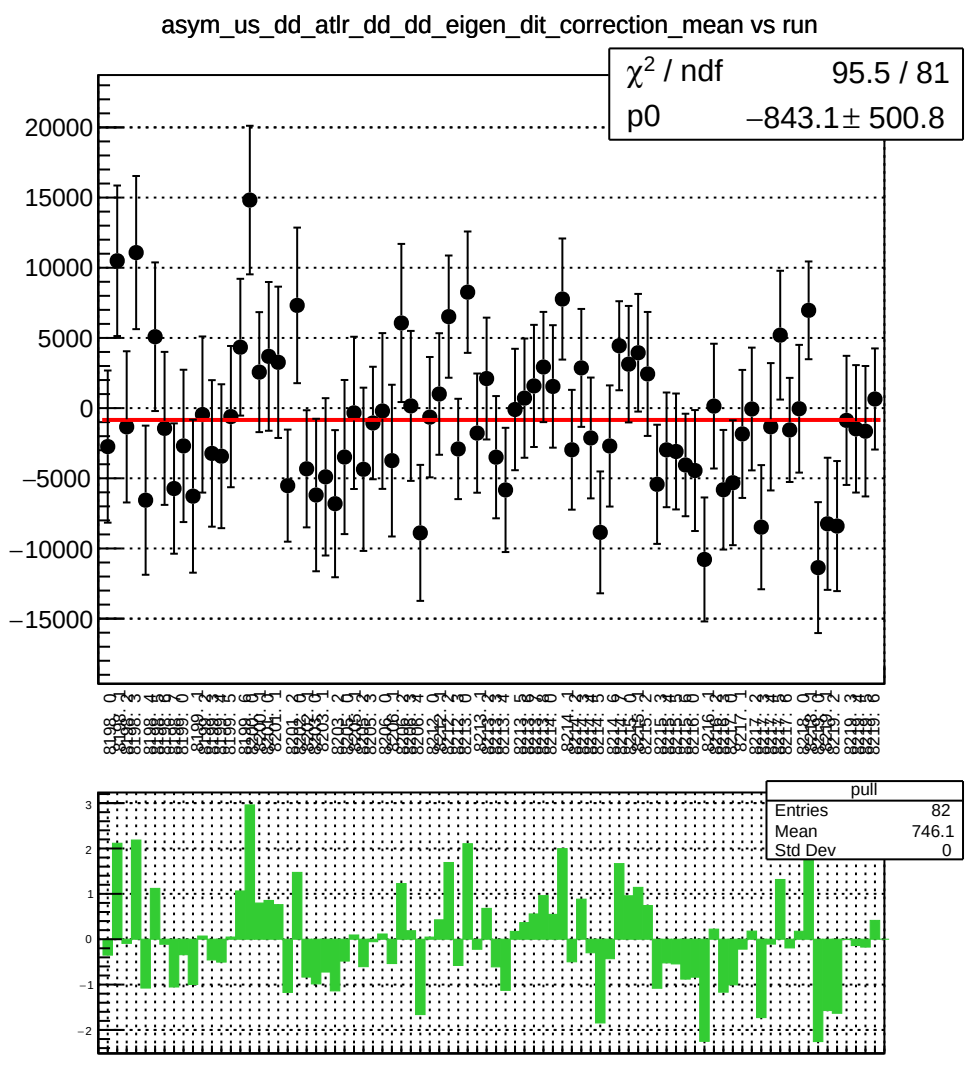

pull1D
Entries 82
Mean −0.006435
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

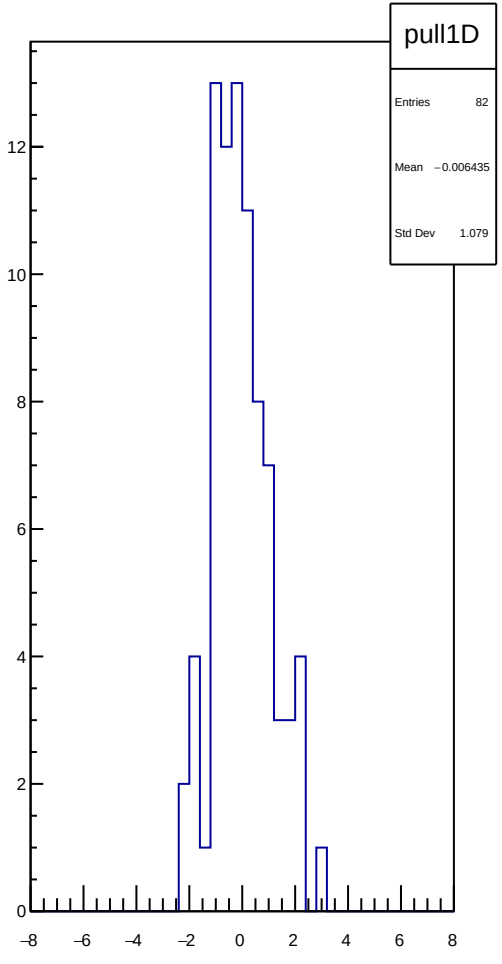

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.864e+04 / 81
p0 448.3 ± 0.3541
560
540
520
500
480
460
440
420
400
380

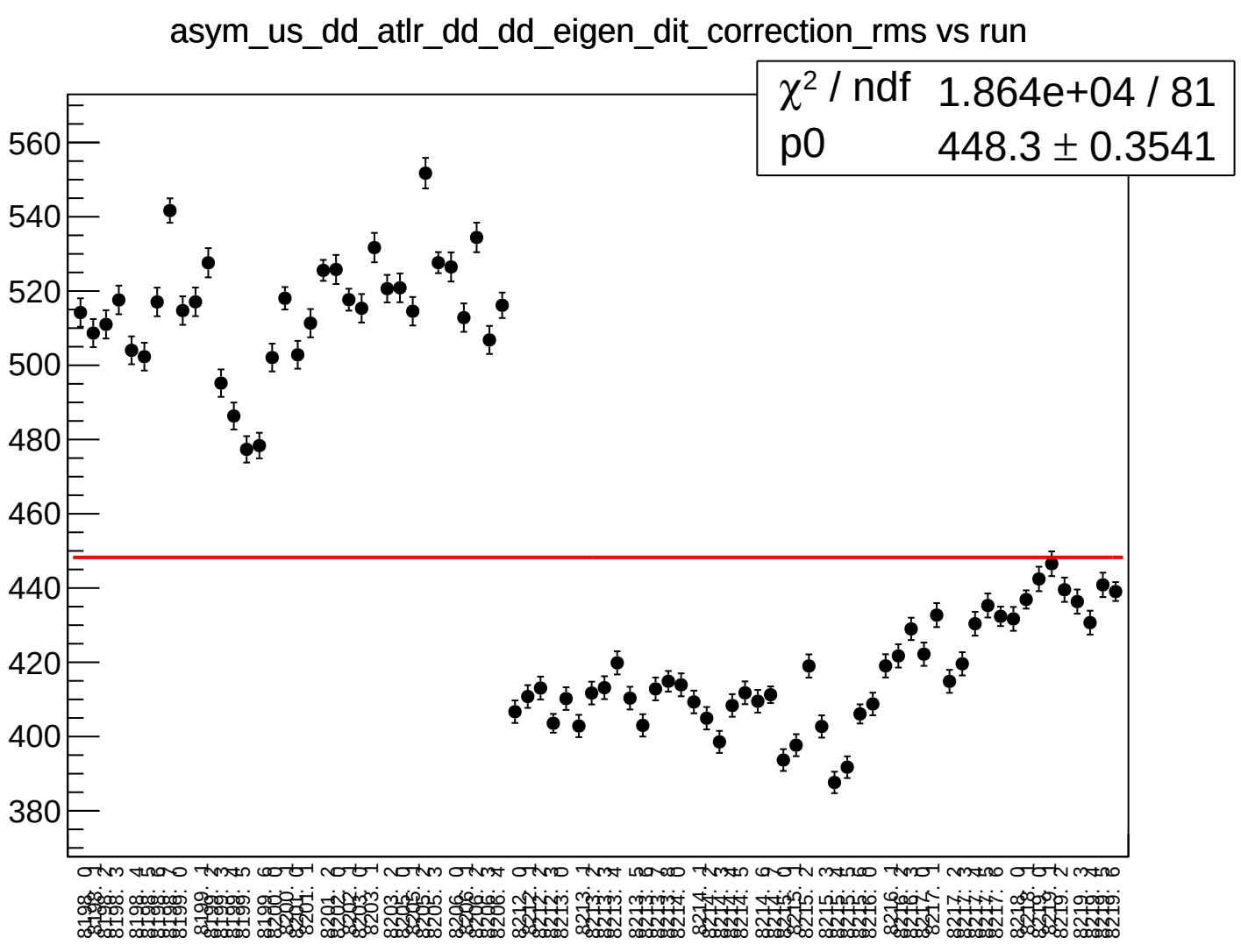

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 68.71 / 81
p0 −791.4 ± 1216
pull
Entries 82
Mean 874.5
Std Dev 0

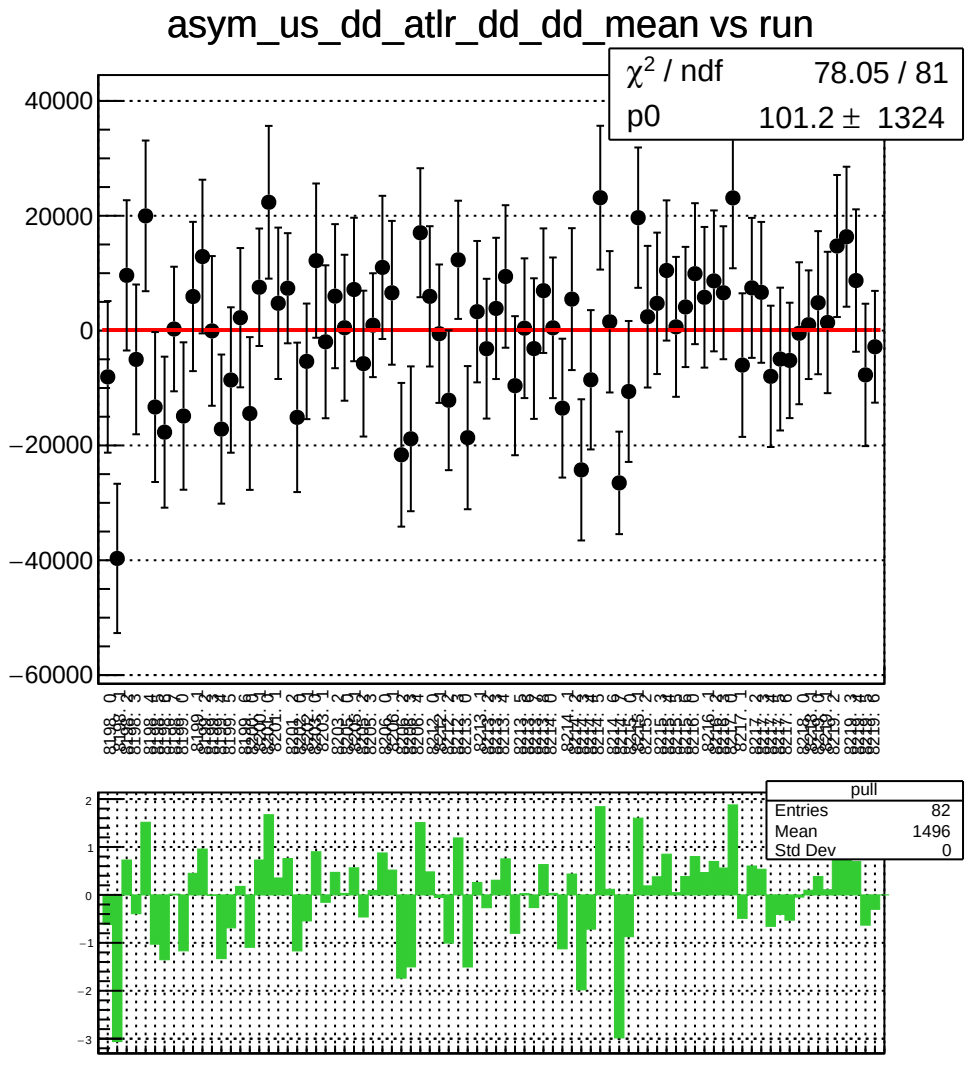

pull1D
Entries 82
Mean 0.003233
Std Dev 0.9154

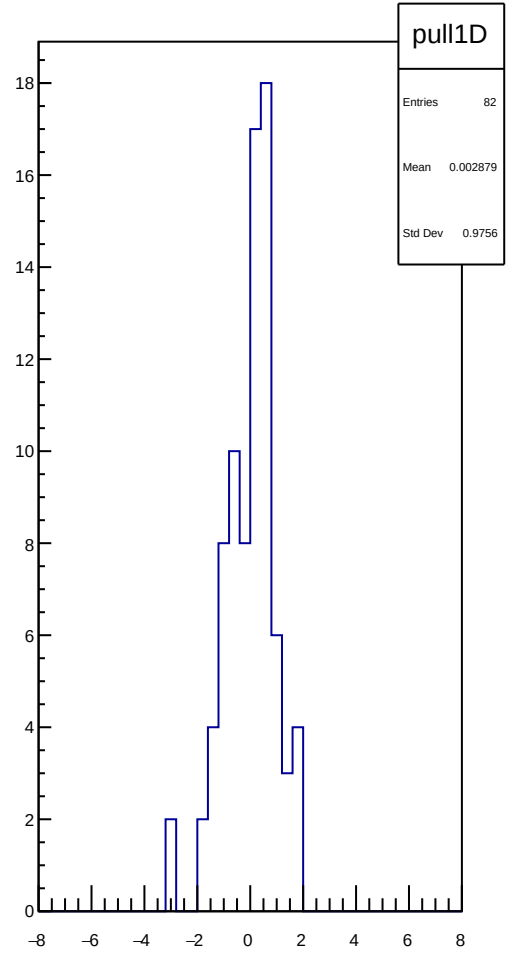

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 421 / 81
p0 1094 ± 0.8595
1140
1120
1100
1080
1060

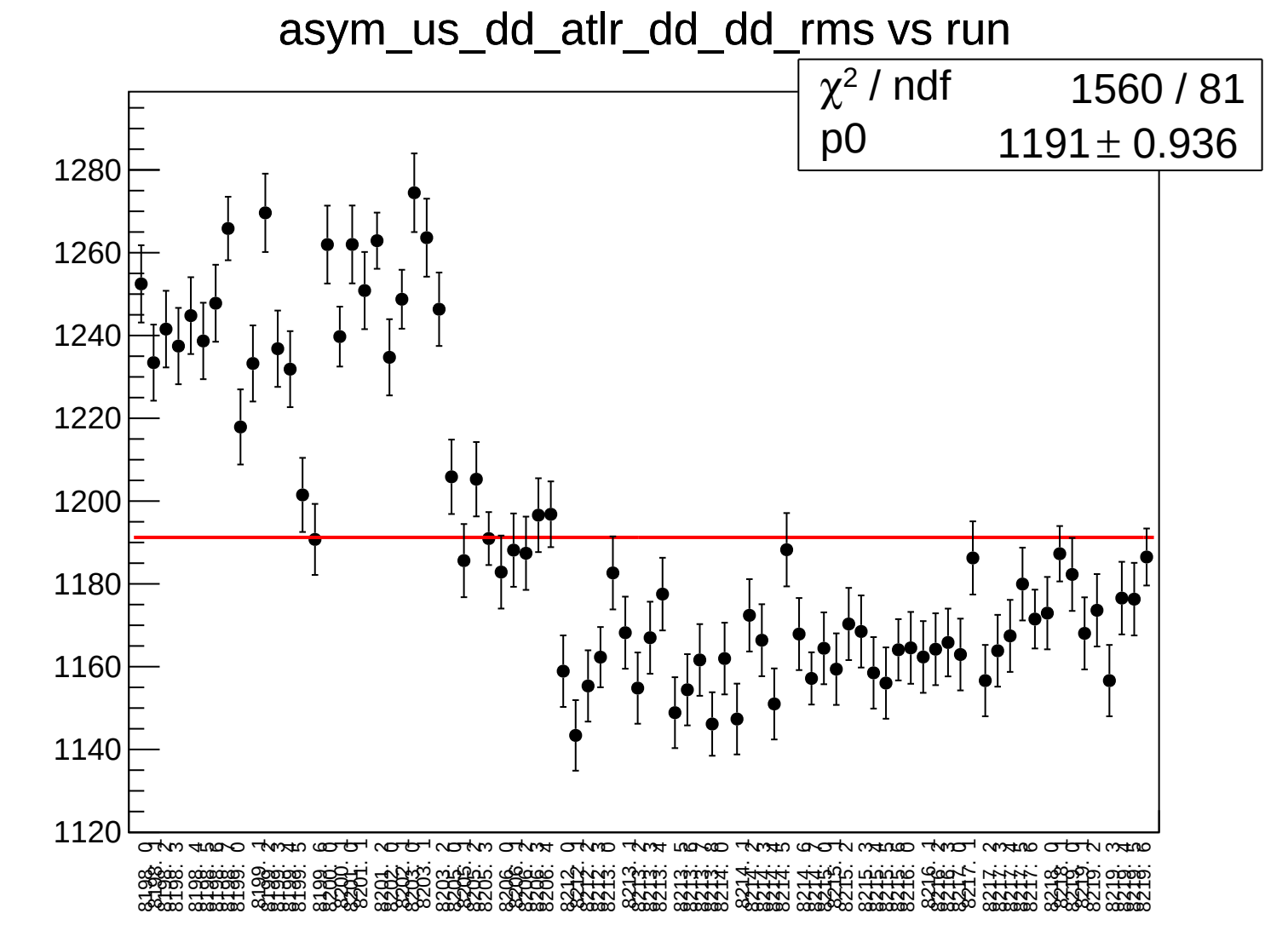

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.5 / 81
p0 −843.1 ± 500.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 746.1
Std Dev 0
3
2
1
0
−1
−2

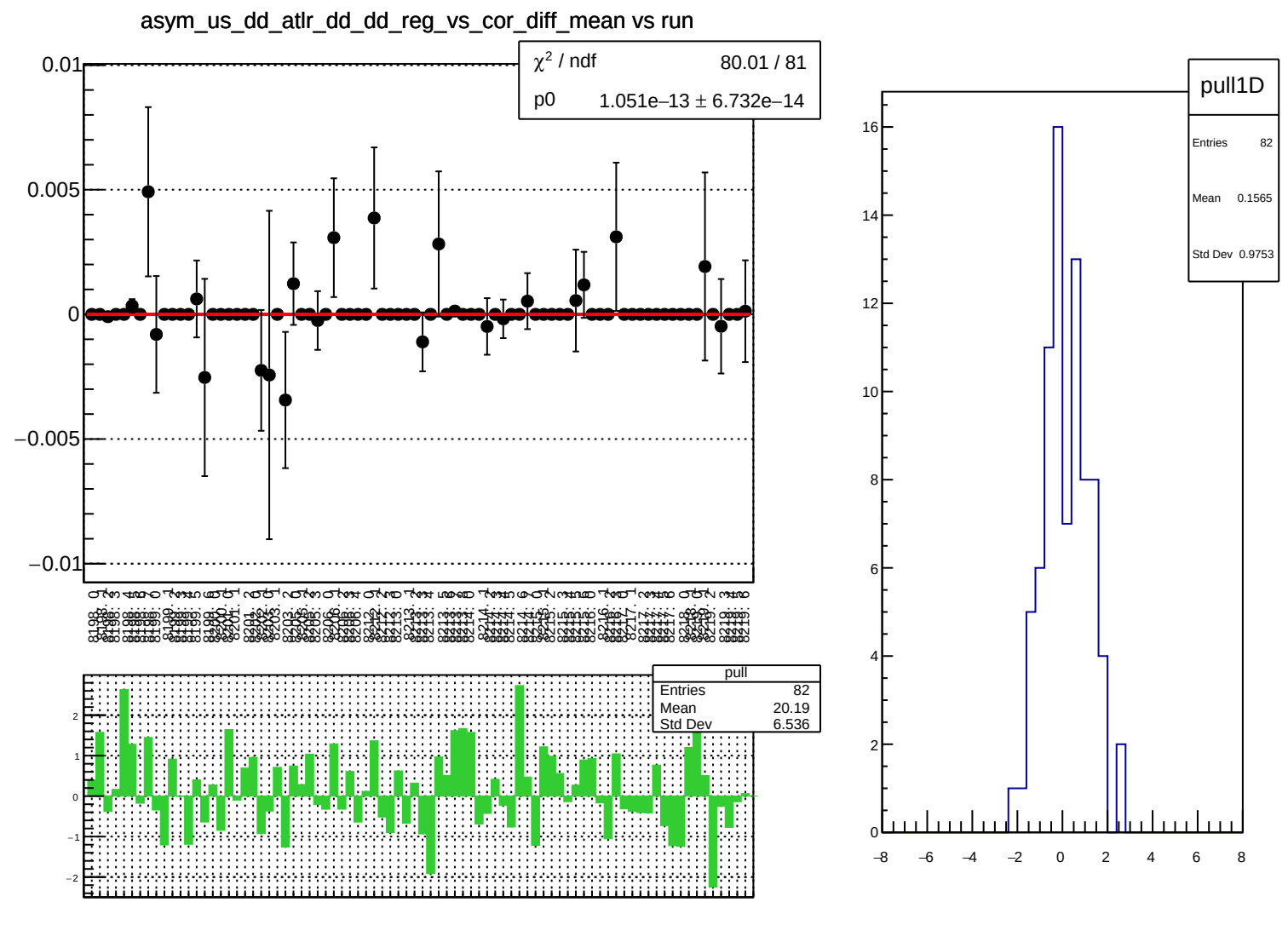

pull1D
Entries 82
Mean −0.006435
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

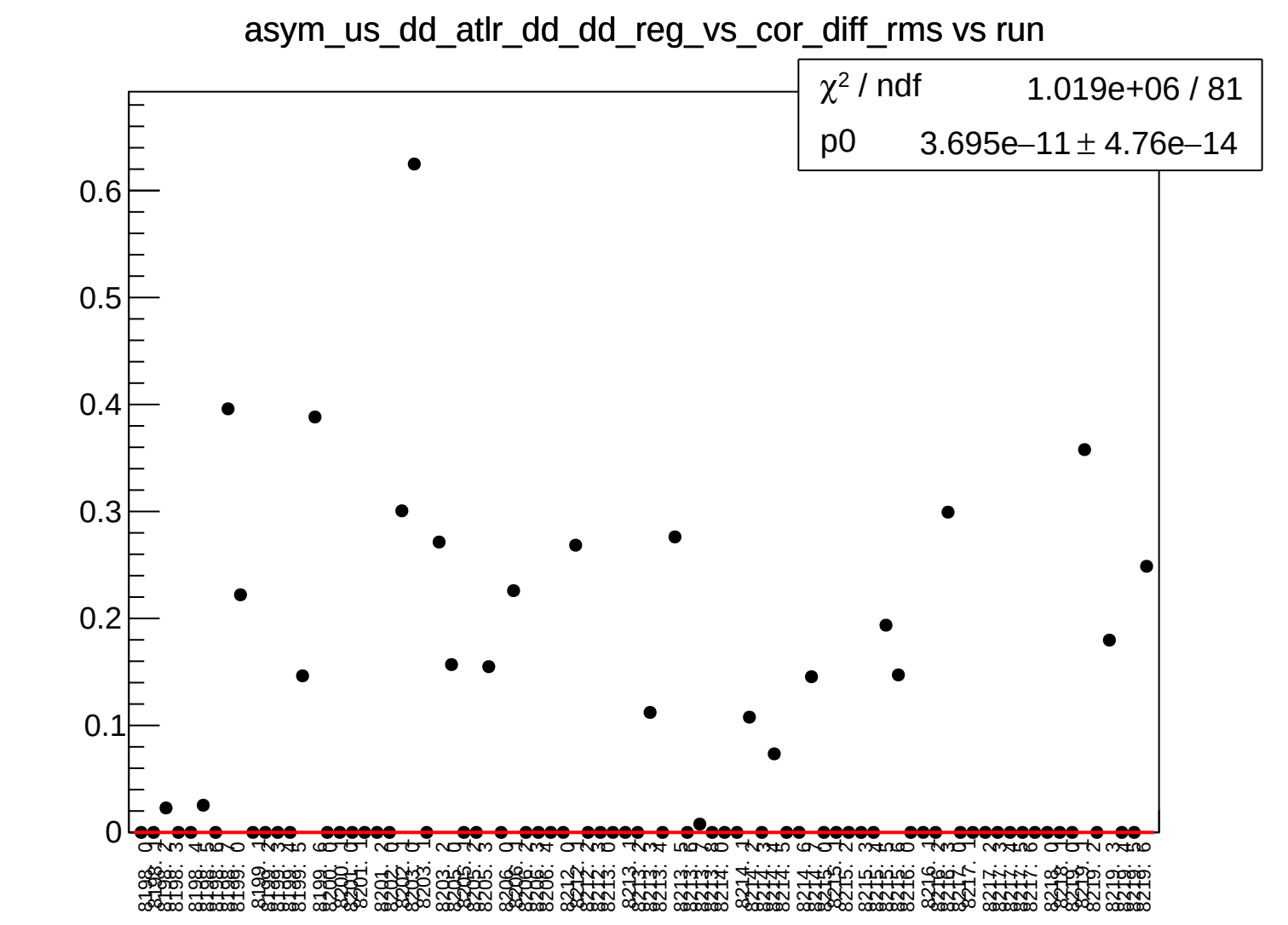

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.864e+04 / 81
p0 448.3 ± 0.3541
560
540
520
500
480
460
440
420
400
380

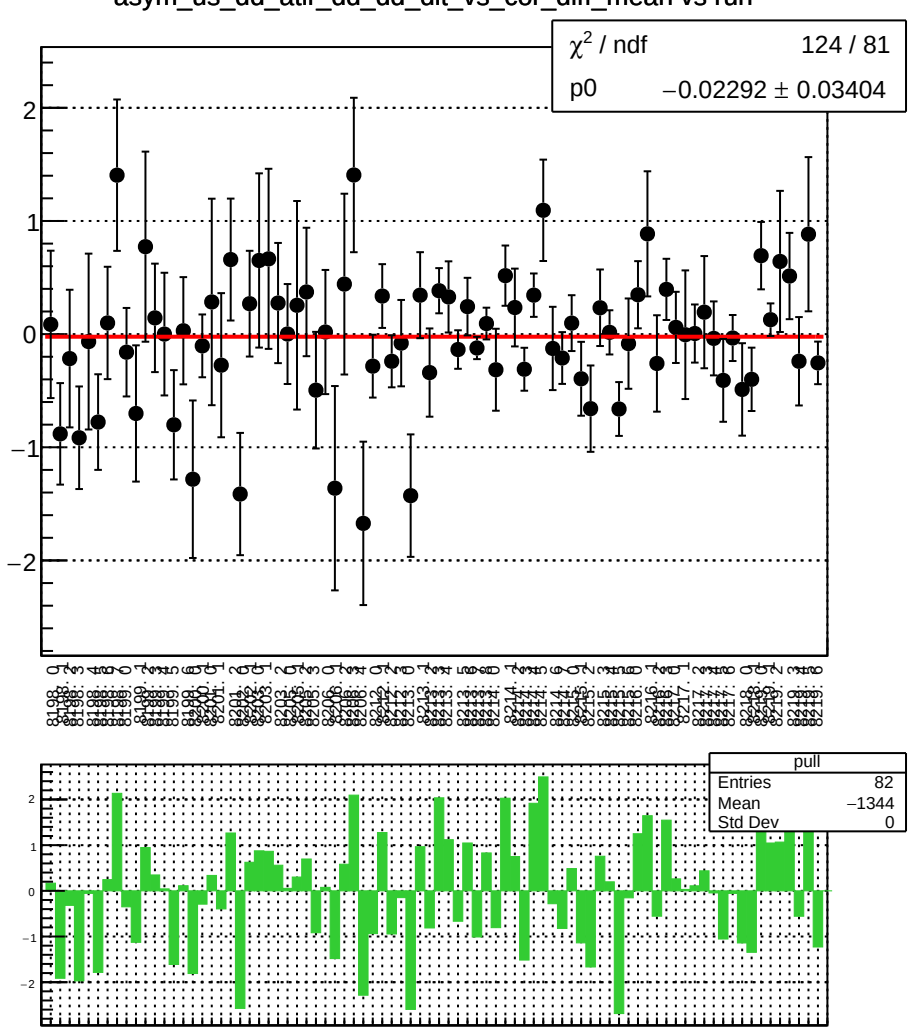

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 78.05 / 81
p0 101.2 ± 1324
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 1496
Std Dev 0

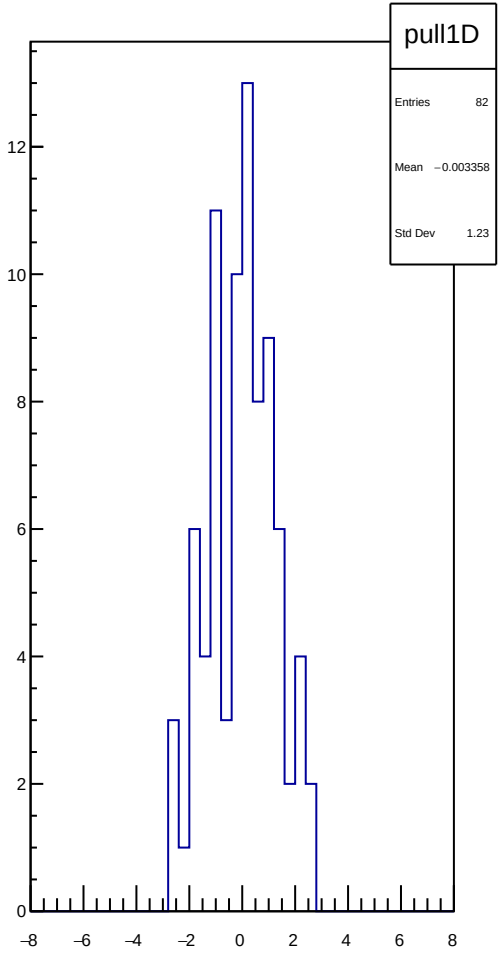

pull1D
Entries 82
Mean 0.002879
Std Dev 0.9756
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

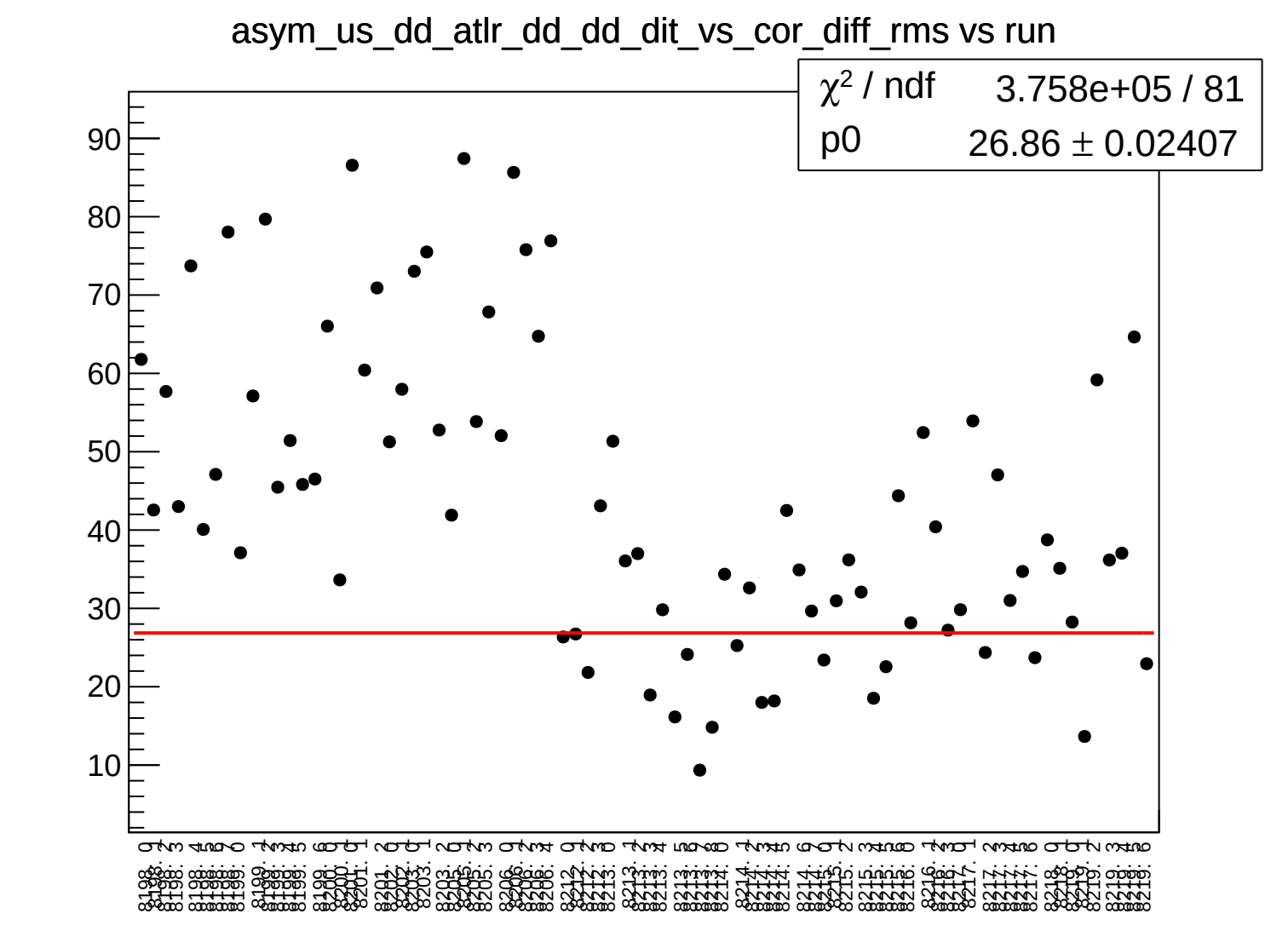

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1560 / 81
p0 1191 ± 0.936
1280
1260
1240
1220
1200
1180
1160
1140
1120

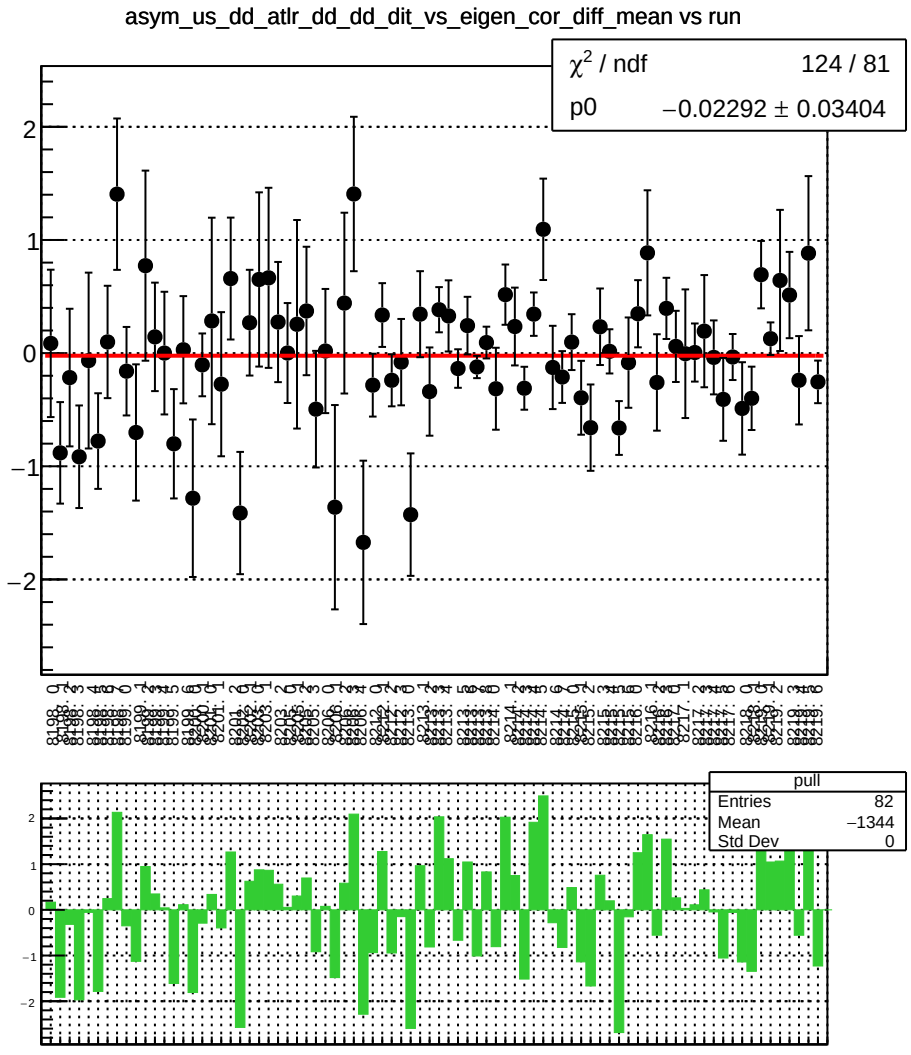

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.01 / 81
p0 1.051e−13 ± 6.732e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 82
Mean 20.19
Std Dev 6.536
pull1D
Entries 82
Mean 0.1565
Std Dev 0.9753

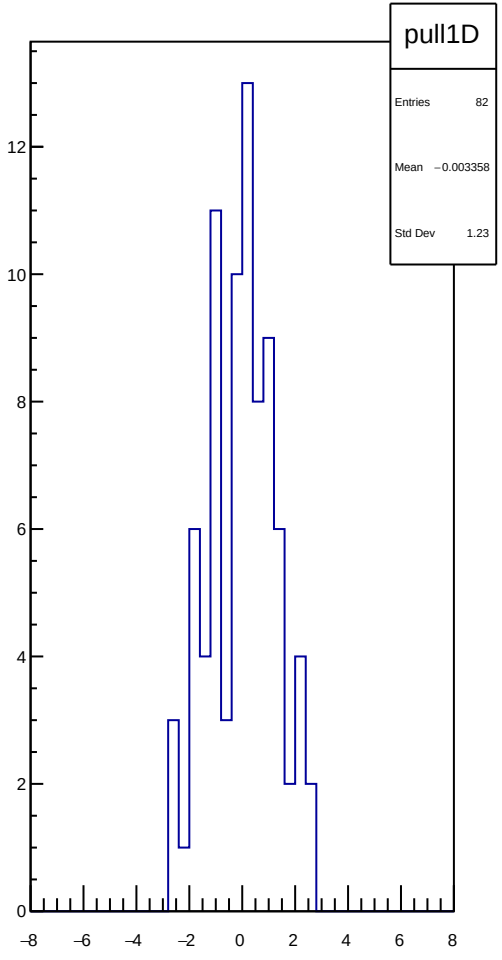

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.019e+06 / 81
p0 3.695e−11 ± 4.76e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

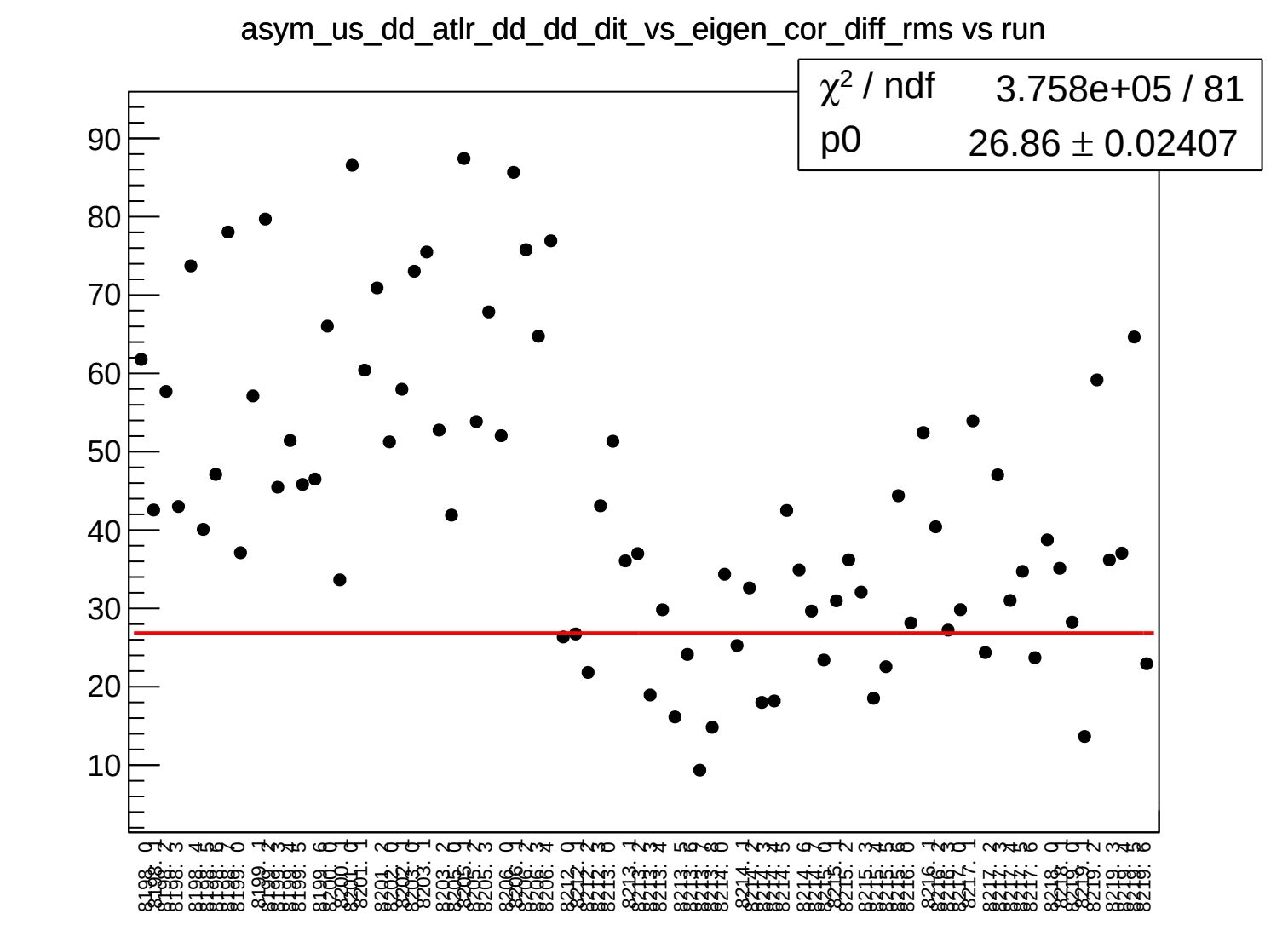

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 124 / 81
p0 −0.02292 ± 0.03404
pull
Entries 82
Mean −1344
Std Dev 0

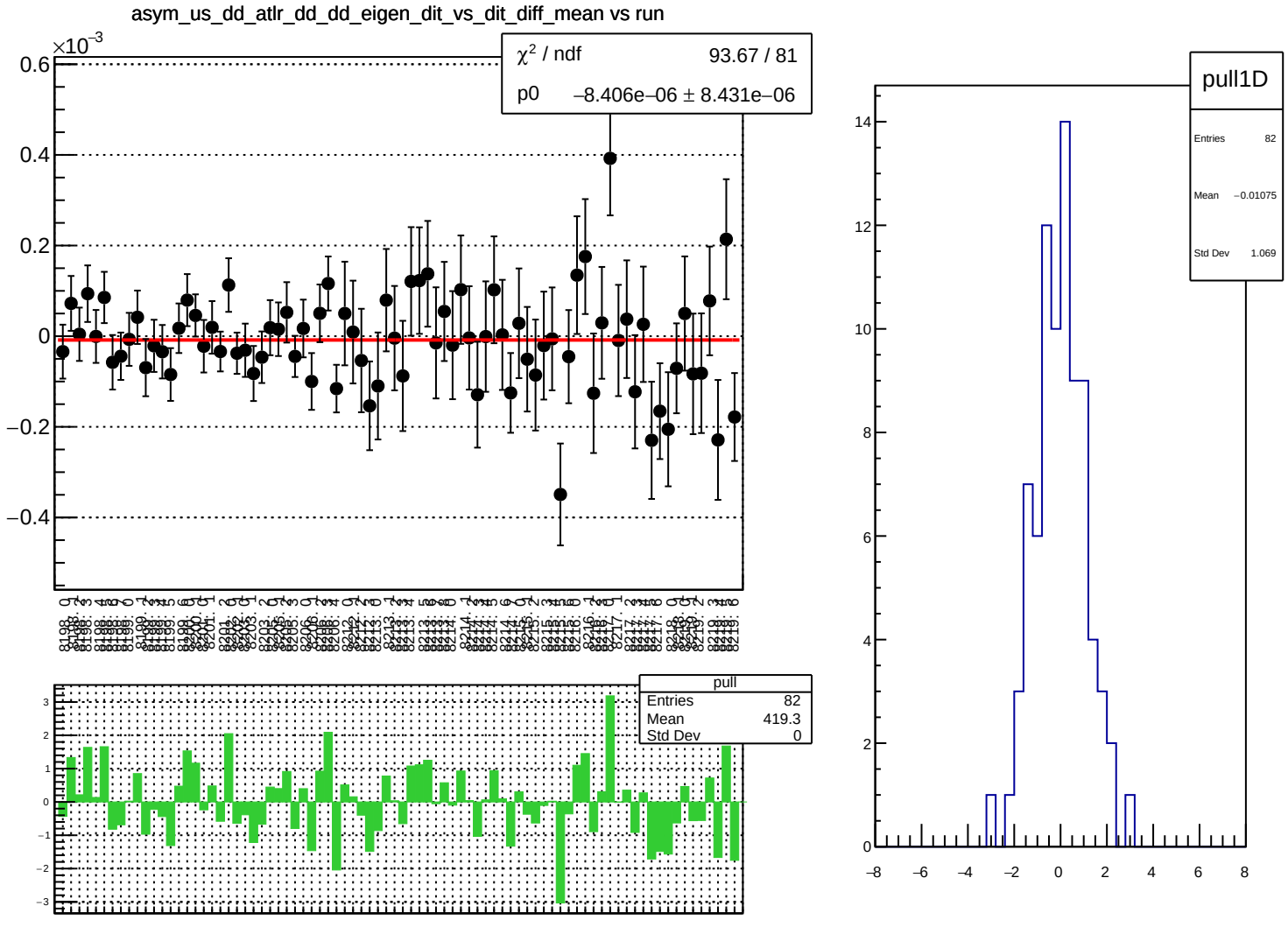

pull1D
Entries 82
Mean −0.003358
Std Dev 1.23

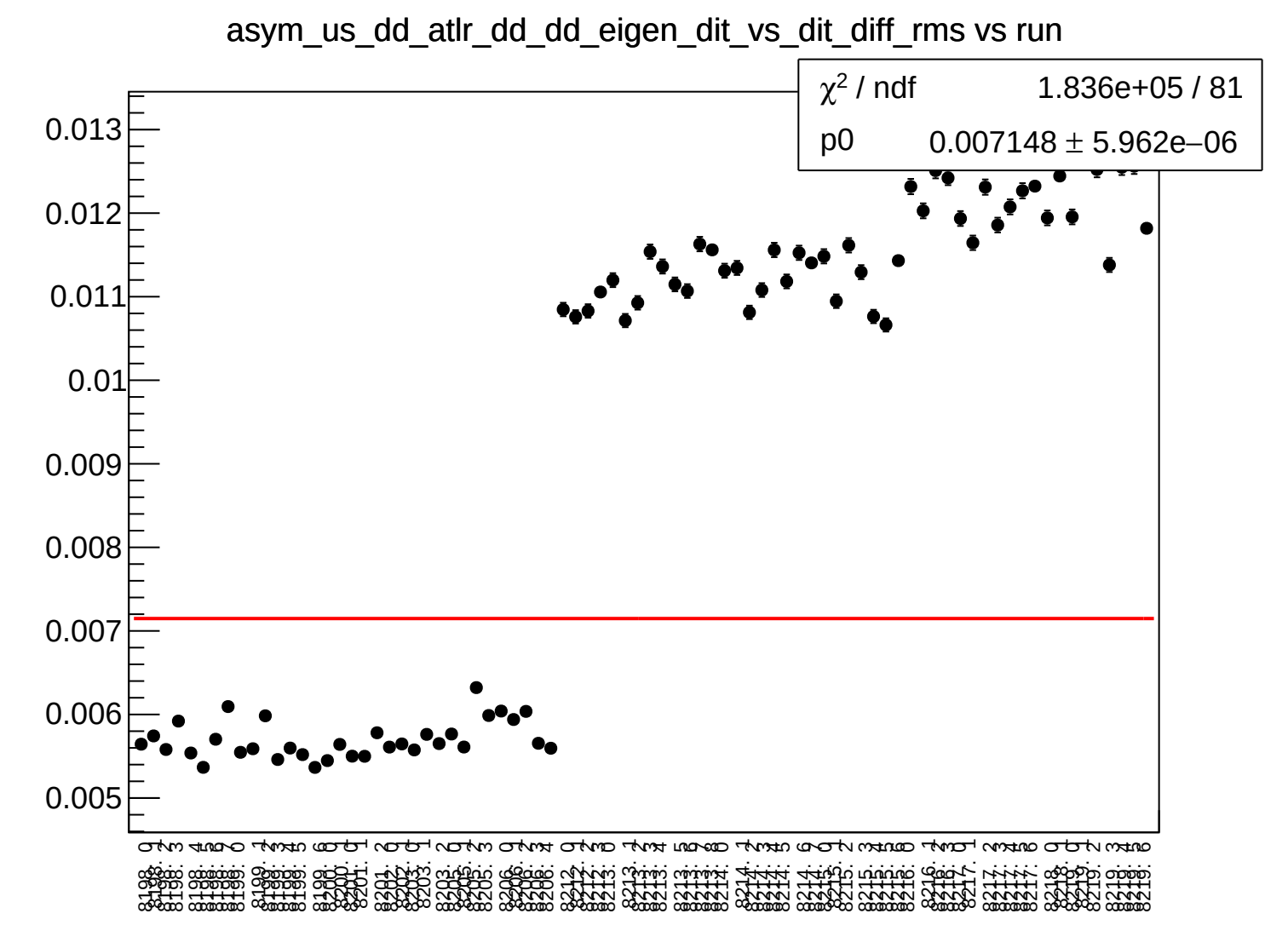

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.758e+05 / 81
p0 26.86 ± 0.02407
90
80
70
60
50
40
30
20
10

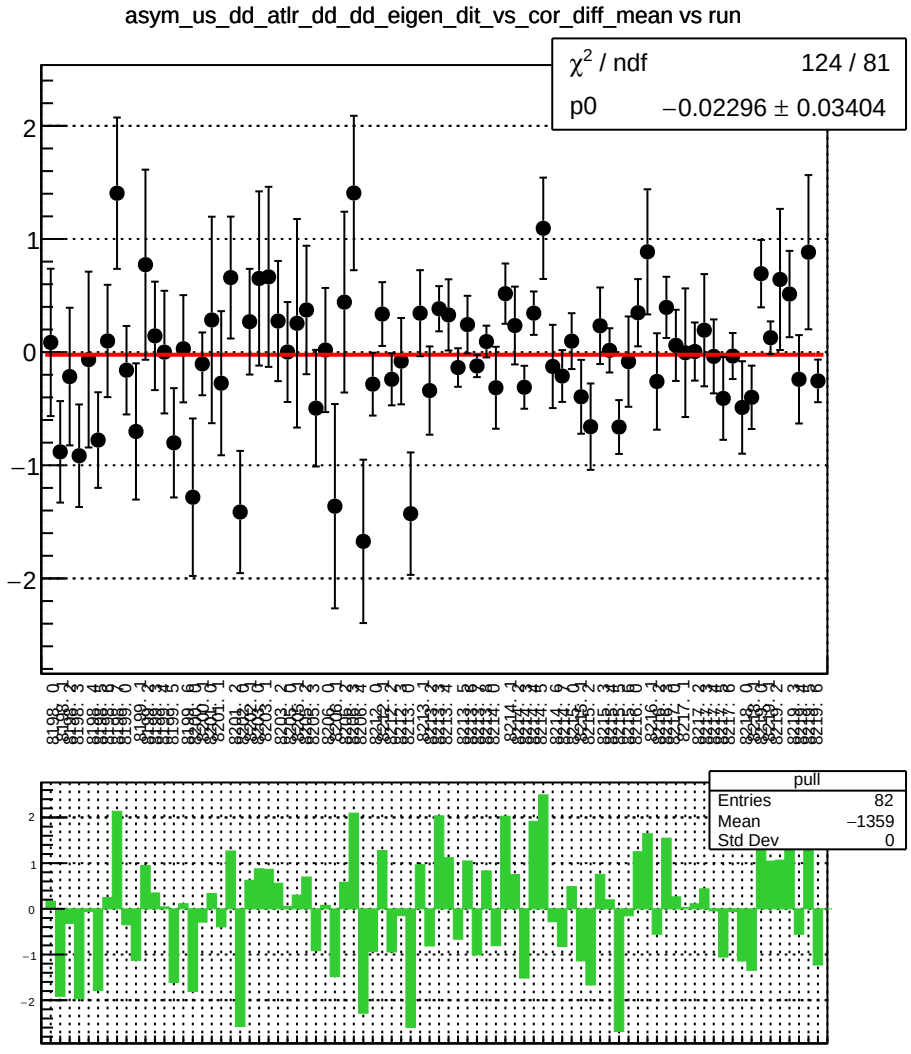

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124 / 81
p0 −0.02292 ± 0.03404
pull
Entries 82
Mean −1344
Std Dev 0

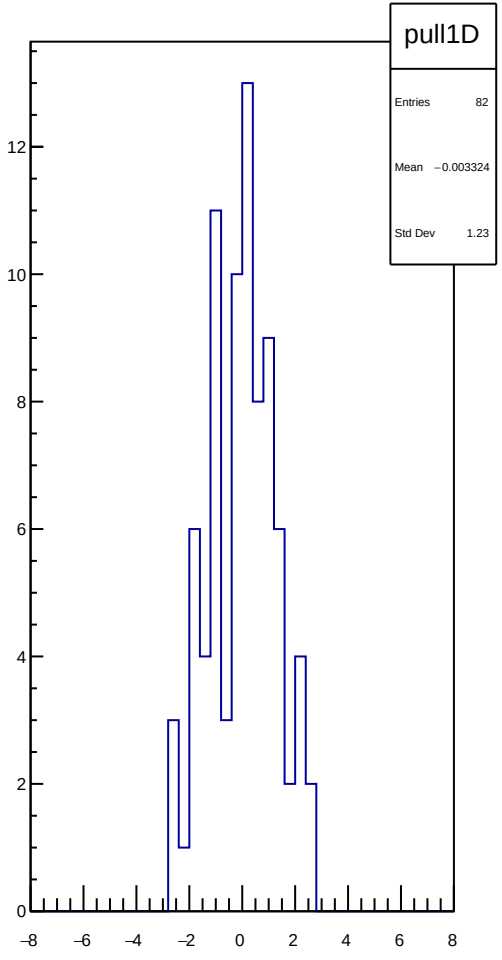

pull1D
Entries 82
Mean −0.003358
Std Dev 1.23

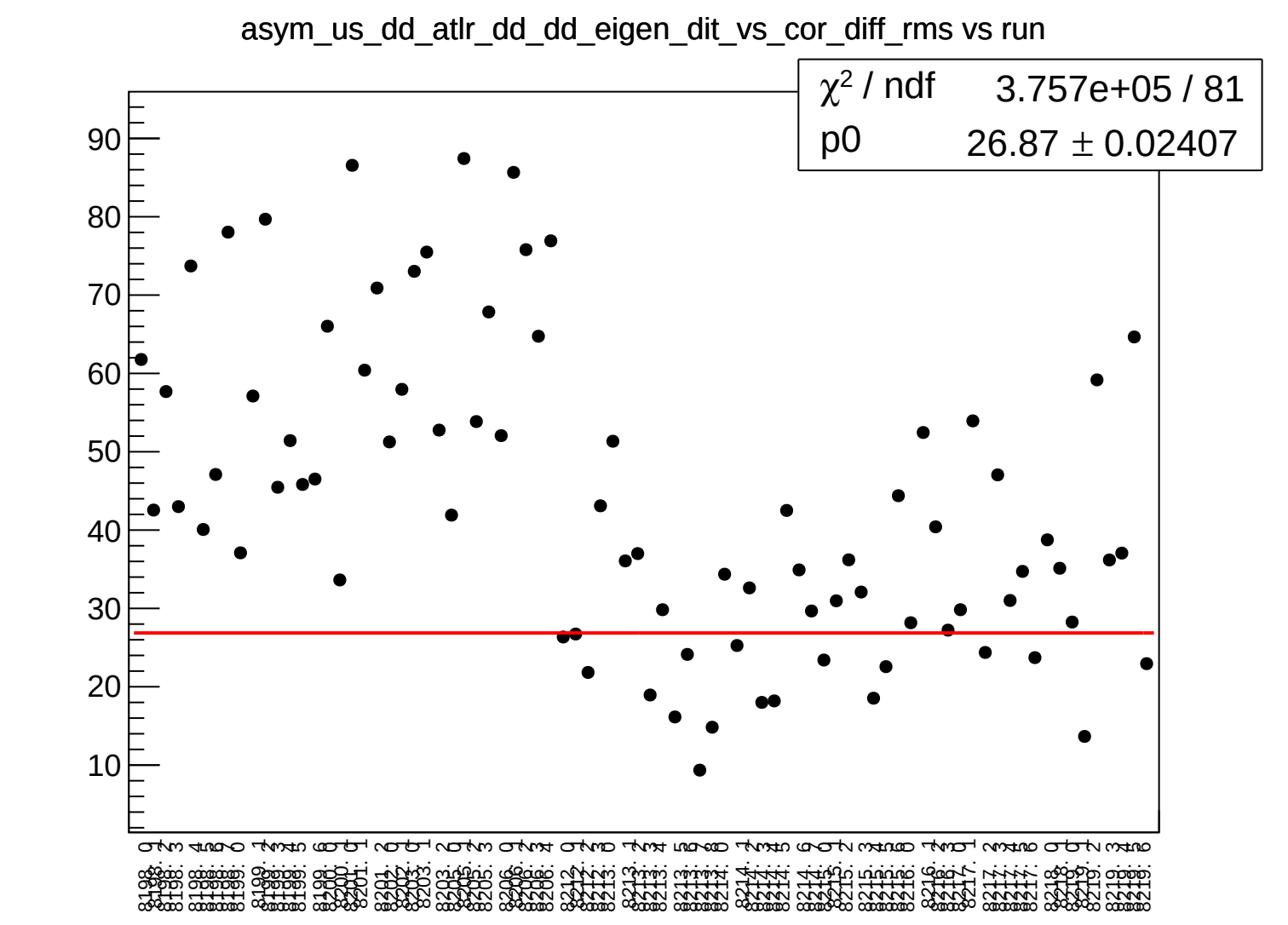

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.758e+05 / 81
p0 26.86 ± 0.02407
90
80
70
60
50
40
30
20
10

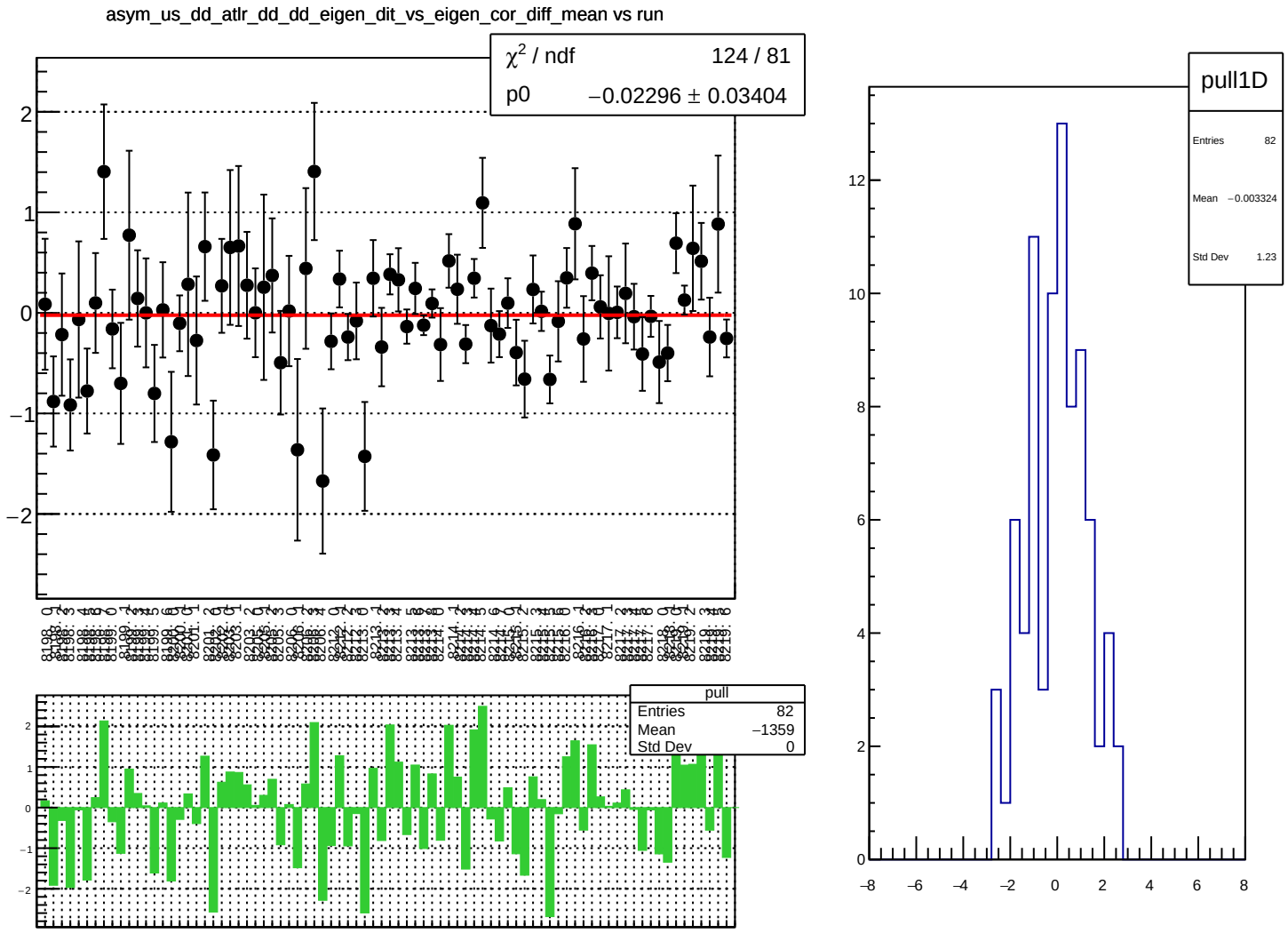

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.67 / 81
p0 −8.406e−06 ± 8.431e−06
pull
Entries 82
Mean 419.3
Std Dev 0
pull1D
Entries 82
Mean −0.01075
Std Dev 1.069

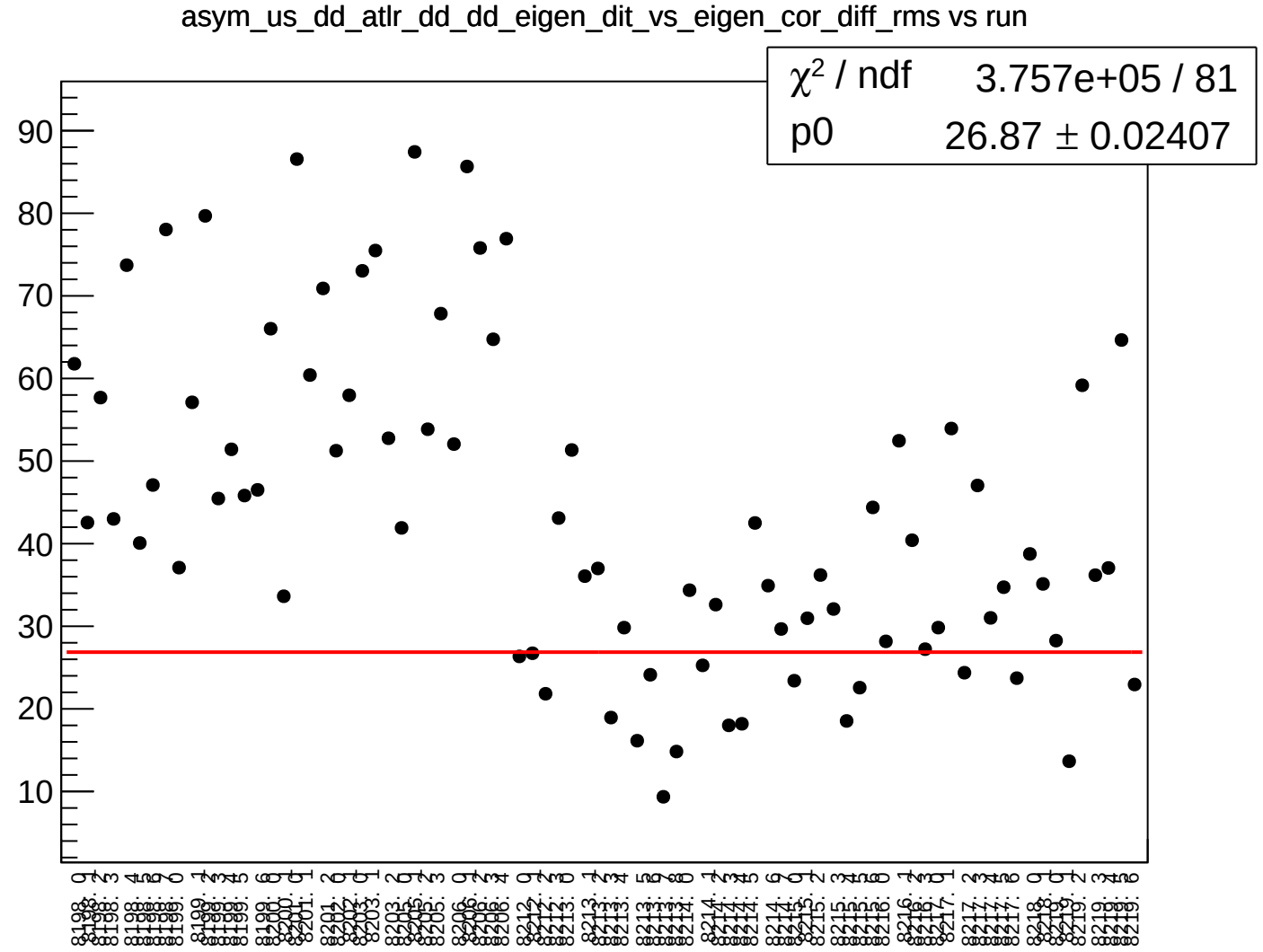

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.836e+05 / 81
p0 0.007148 ± 5.962e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

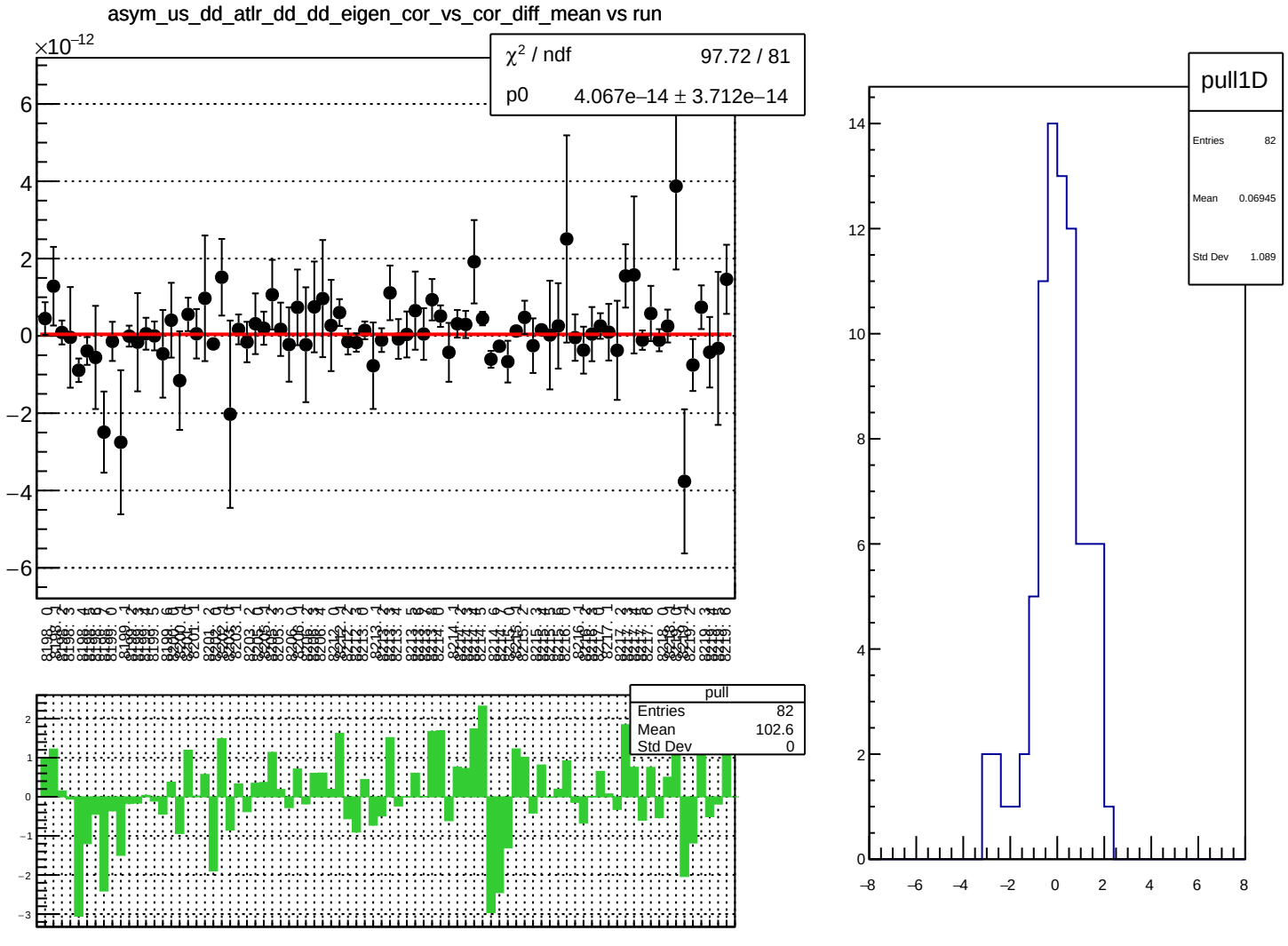

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 124 / 81
p0 −0.02296 ± 0.03404
pull
Entries 82
Mean −1359
Std Dev 0

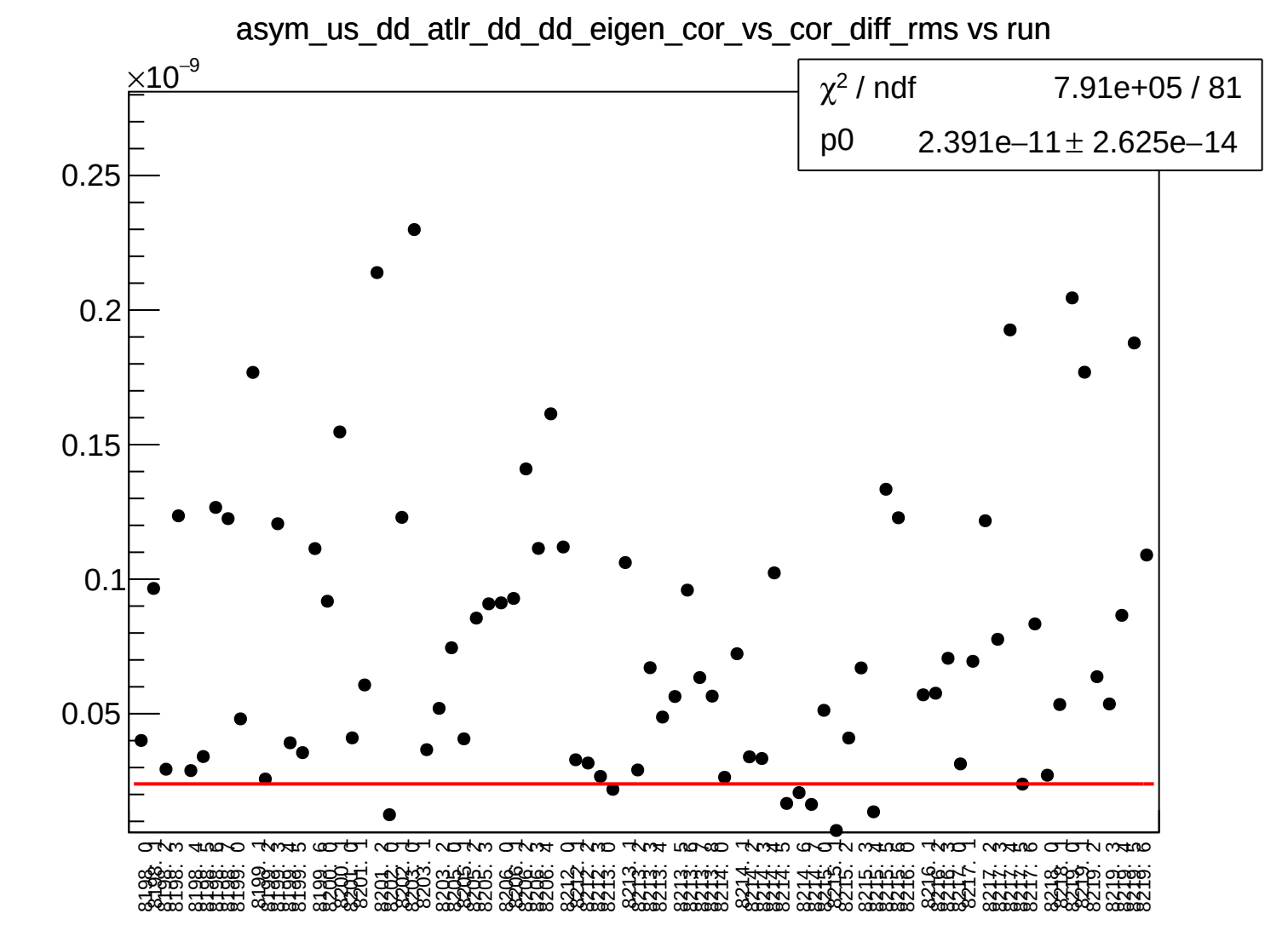

pull1D
Entries 82
Mean −0.003324
Std Dev 1.23

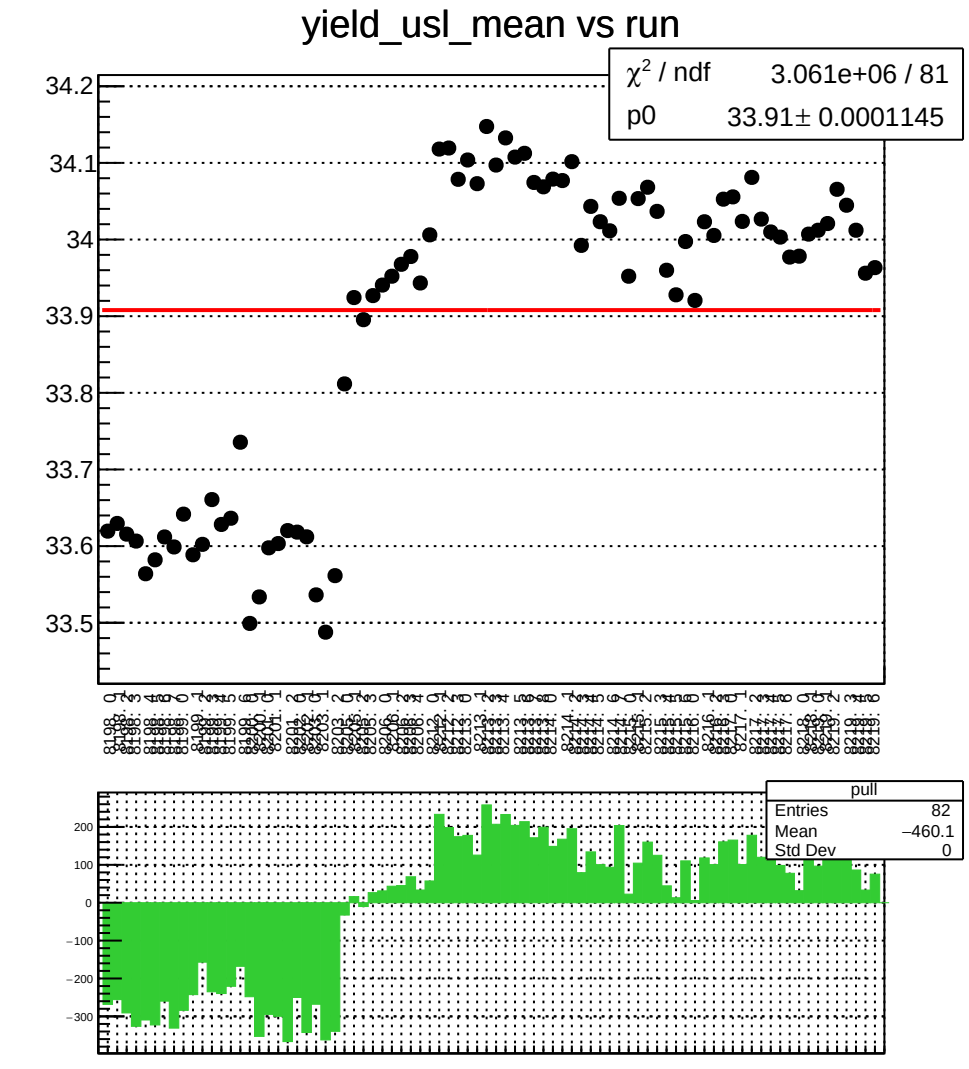

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.757e+05 / 81
p0 26.87 ± 0.02407
90
80
70
60
50
40
30
20
10

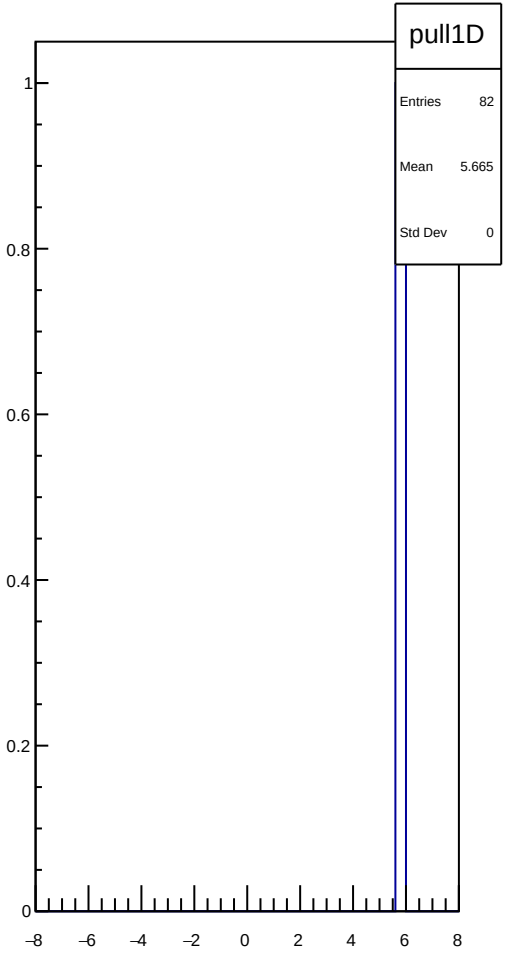

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124 / 81
p0 −0.02296 ± 0.03404
pull
Entries 82
Mean −1359
Std Dev 0
pull1D
Entries 82
Mean −0.003324
Std Dev 1.23

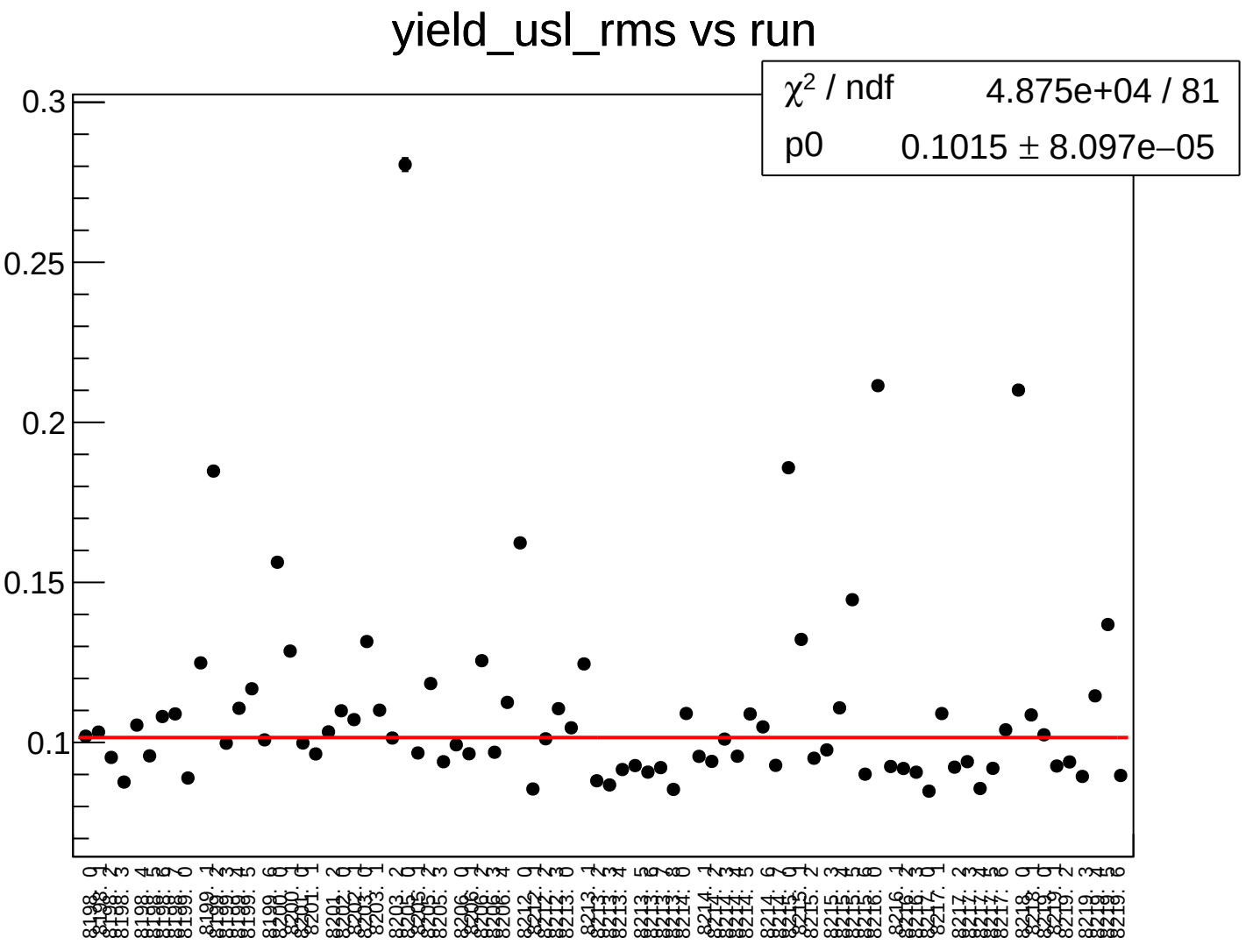

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.757e+05 / 81
p0 26.87 ± 0.02407
90
80
70
60
50
40
30
20
10

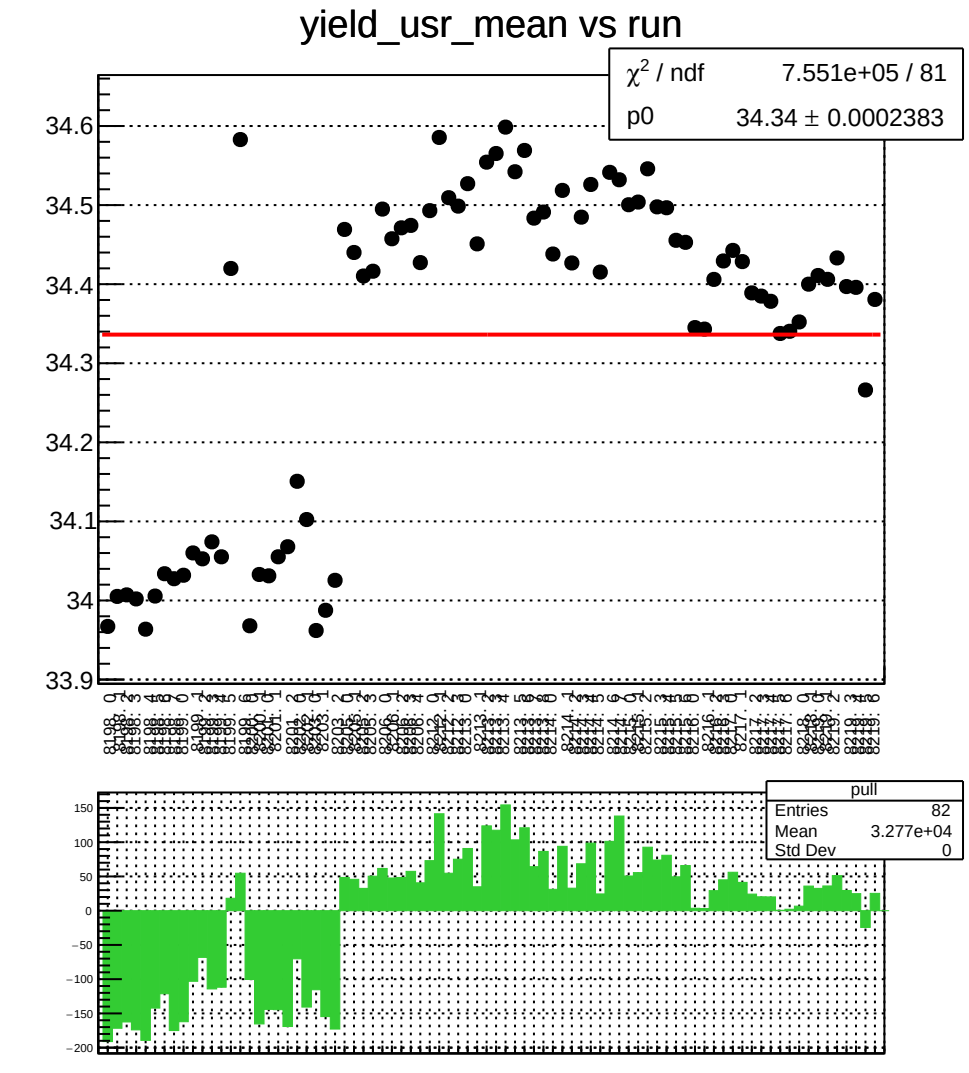

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.72 / 81
p0 4.067e−14 ± 3.712e−14
pull
Entries 82
Mean 102.6
Std Dev 0
pull1D
Entries 82
Mean 0.06945
Std Dev 1.089

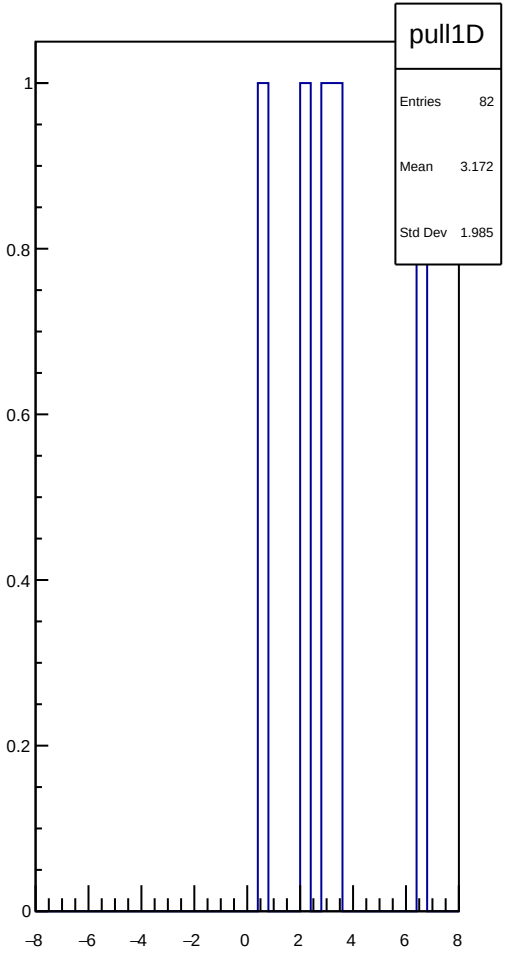

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.91e+05 / 81
p0 2.391e−11 ± 2.625e−14
0.25
0.2
0.15
0.1
0.05

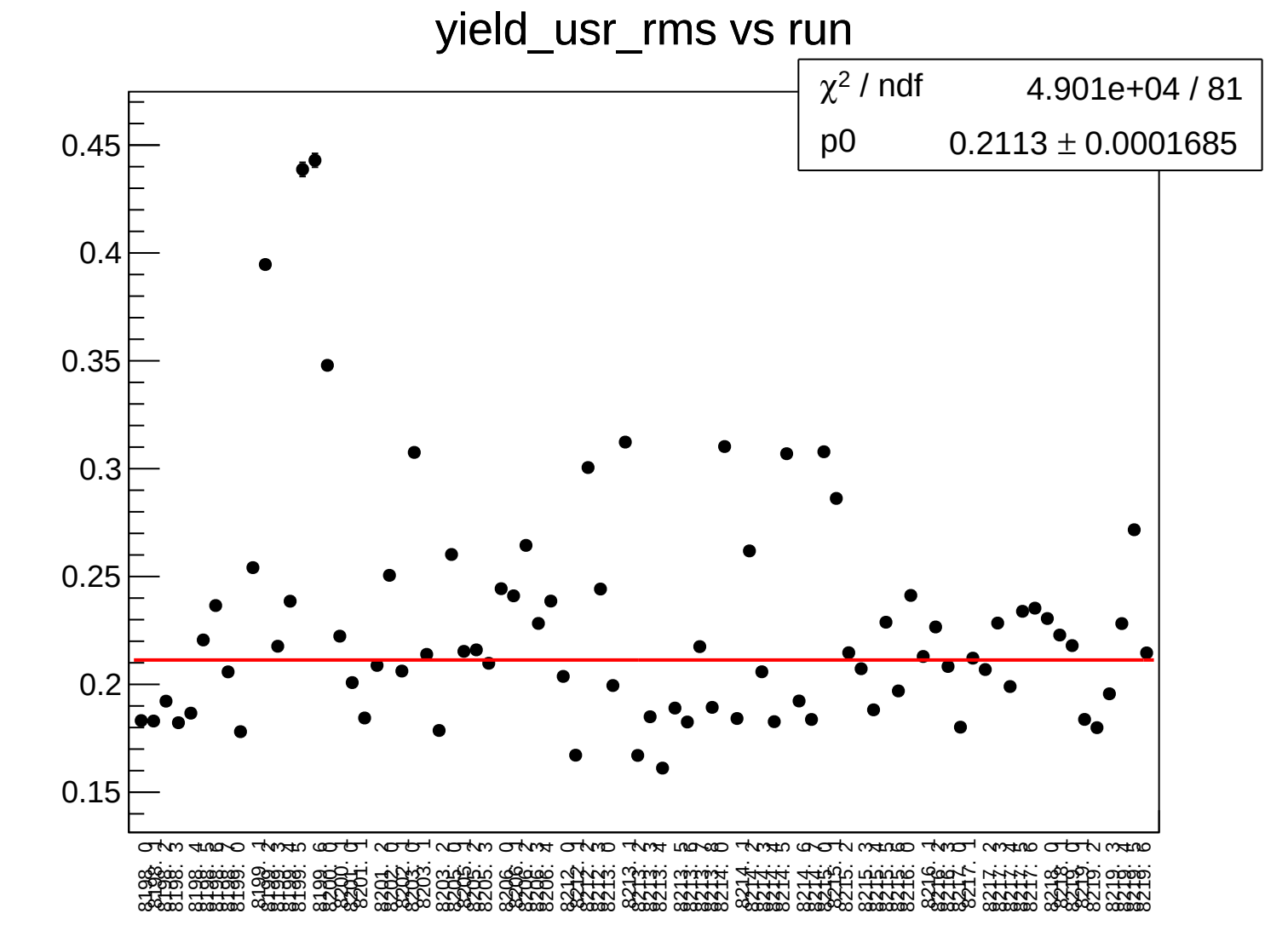

yield_usl_mean vs run
χ² / ndf 3.061e+06 / 81
p0 33.91± 0.0001145
34.2
34.1
34
33.9
33.8
33.7
33.6
33.5
pull
Entries 82
Mean −460.1
Std Dev 0
200
100
0
−100
−200
−300

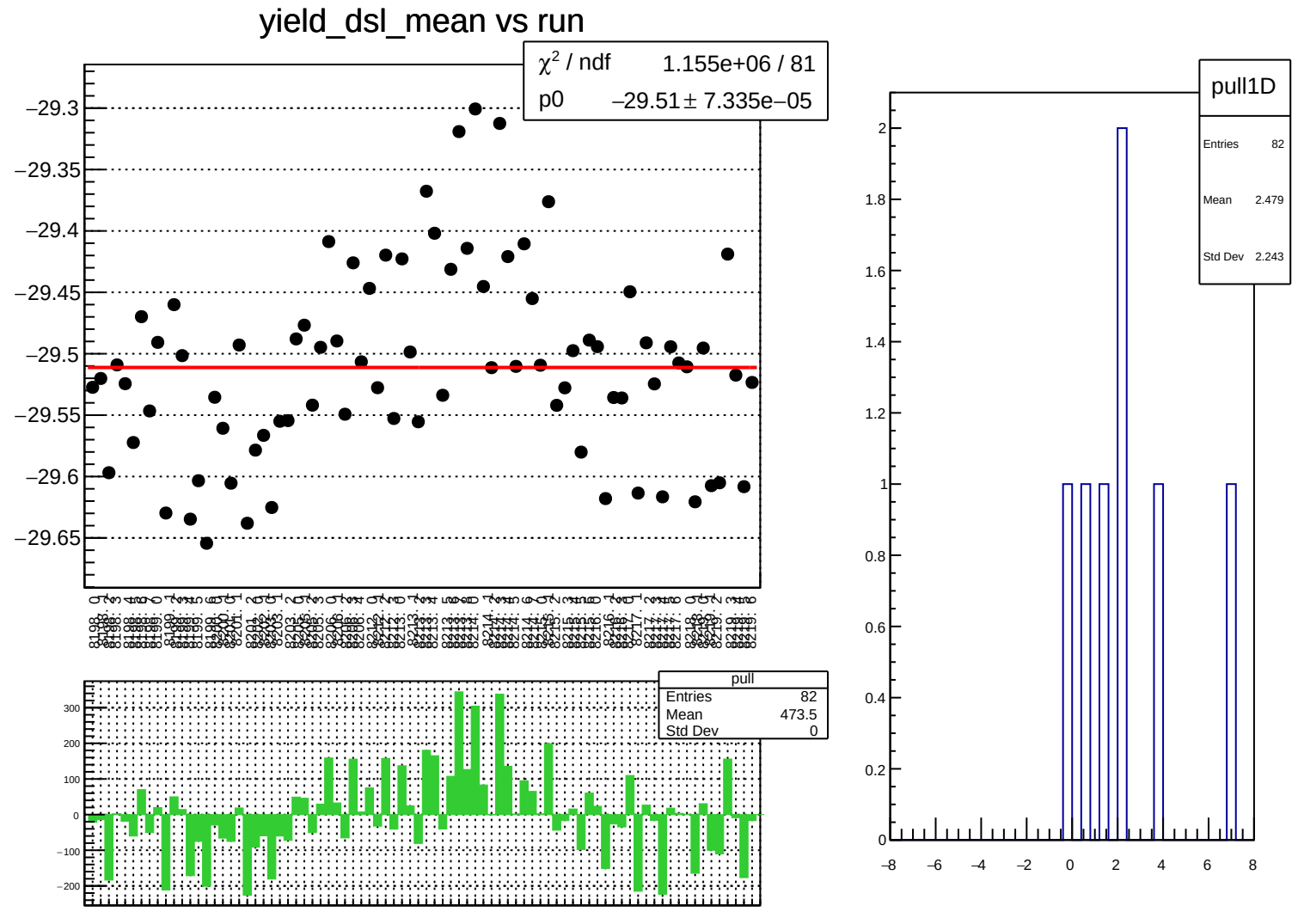

pull1D
Entries 82
Mean 5.665
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

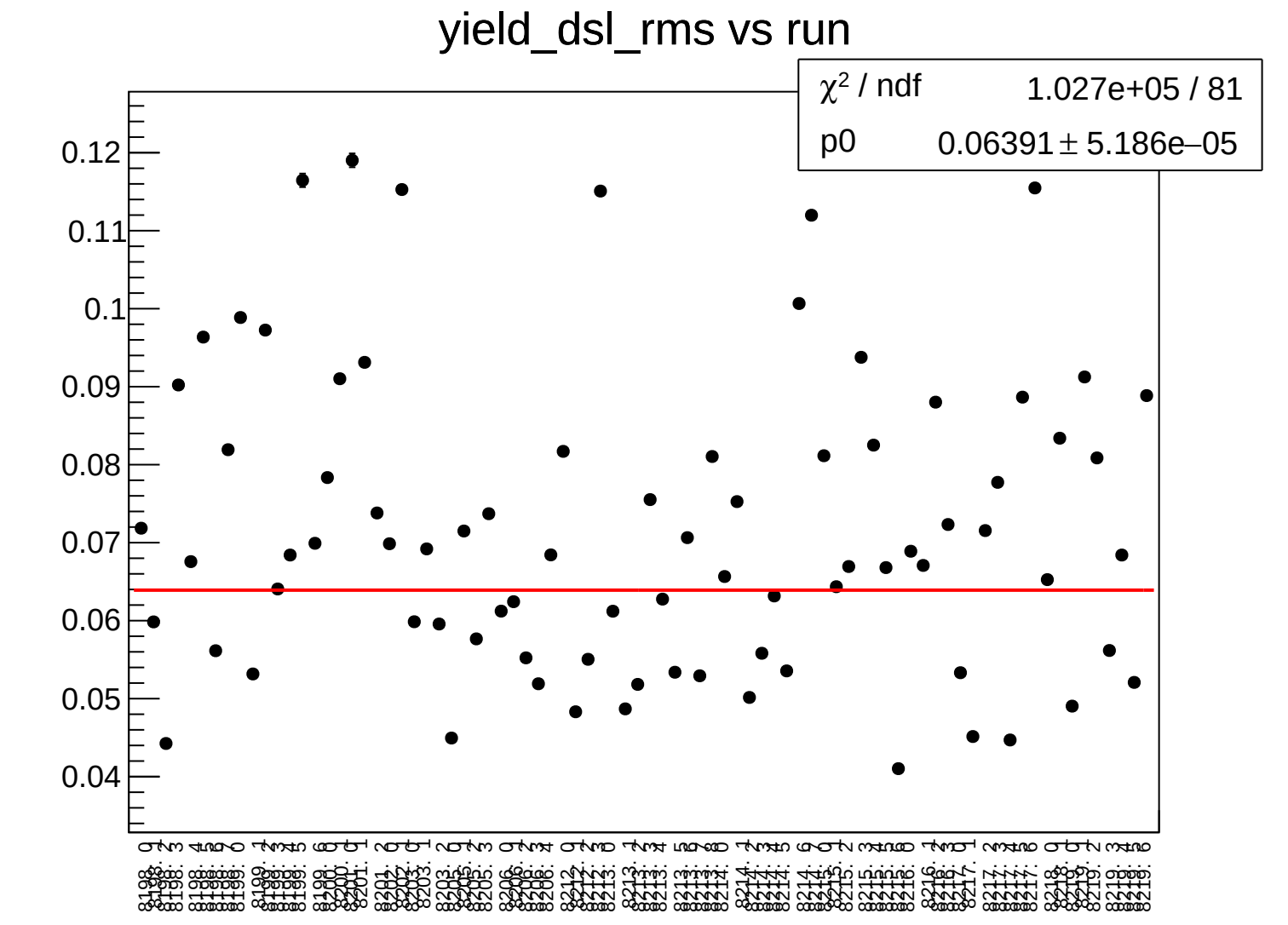

yield_usl_rms vs run
χ² / ndf 4.875e+04 / 81
p0 0.1015 ± 8.097e−05
0.3
0.25
0.2
0.15
0.1

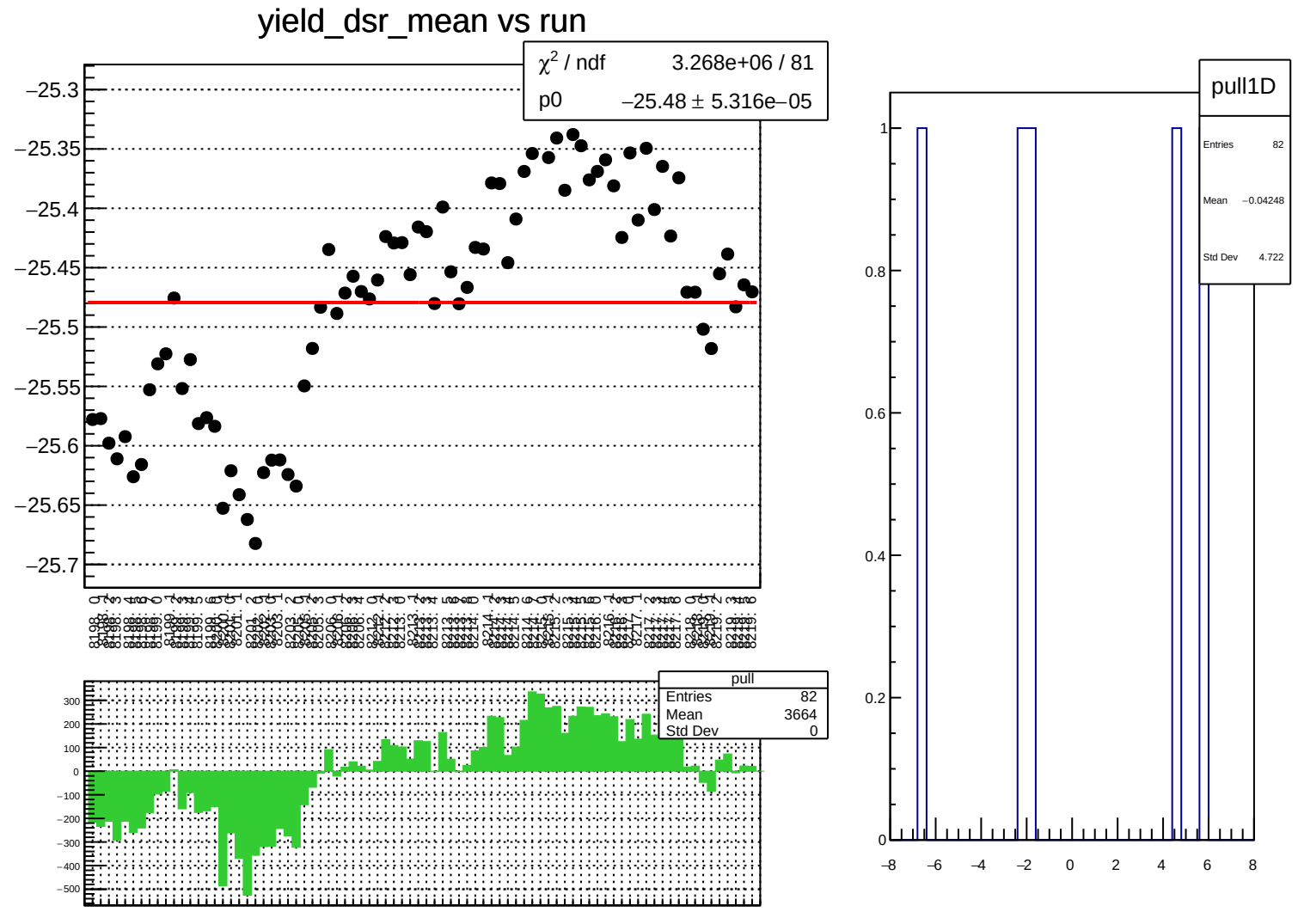

yield_usr_mean vs run
χ² / ndf 7.551e+05 / 81
p0 34.34 ± 0.0002383
34.6
34.5
34.4
34.3
34.2
34.1
34
33.9
pull
Entries 82
Mean 3.277e+04
Std Dev 0
150
100
50
0
−50
−100
−150
−200

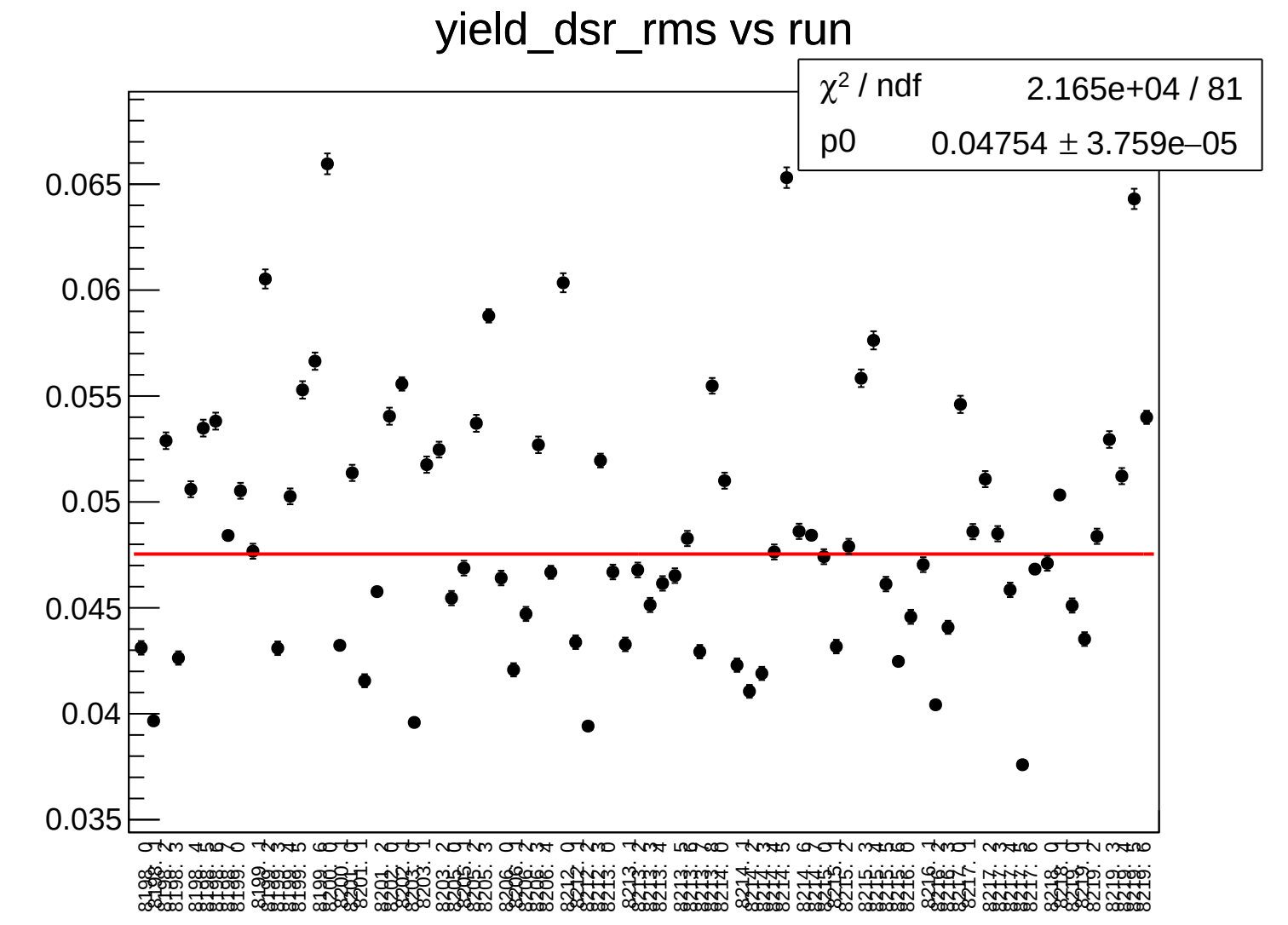

pull1D
Entries 82
Mean 3.172
Std Dev 1.985
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

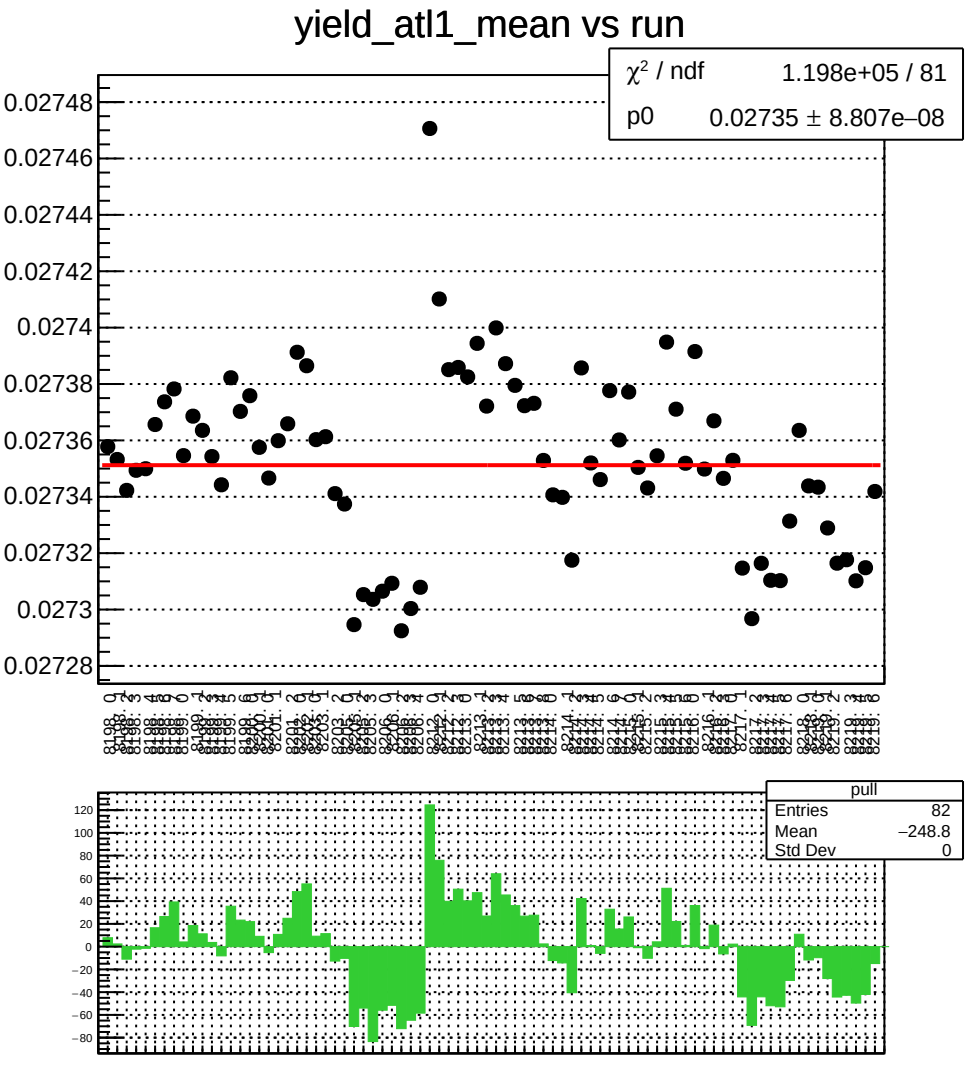

yield_usr_rms vs run
χ² / ndf 4.901e+04 / 81
p0 0.2113 ± 0.0001685
0.45
0.4
0.35
0.3
0.25
0.2
0.15

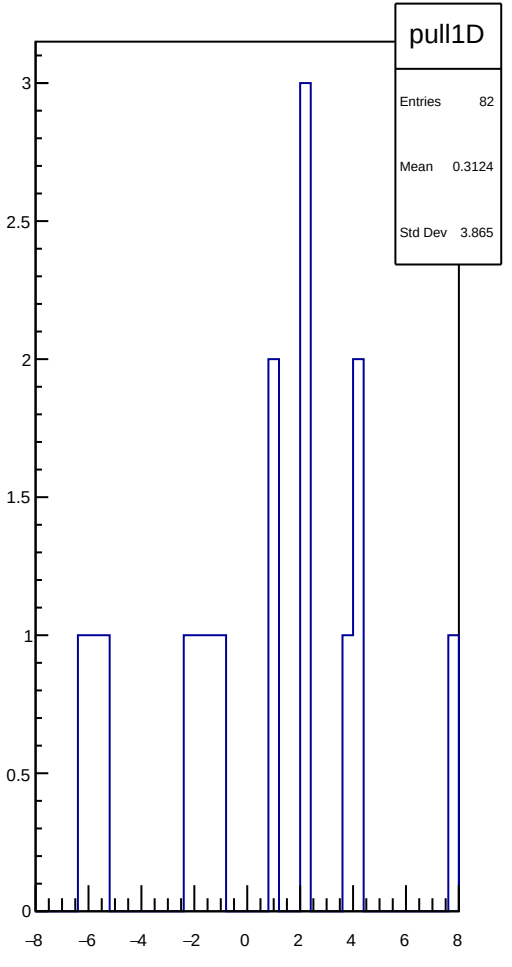

yield_dsl_mean vs run
χ² / ndf 1.155e+06 / 81
p0 −29.51 ± 7.335e−05
−29.3
−29.35
−29.4
−29.45
−29.5
−29.55
−29.6
−29.65
pull
Entries 82
Mean 473.5
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 82
Mean 2.479
Std Dev 2.243
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

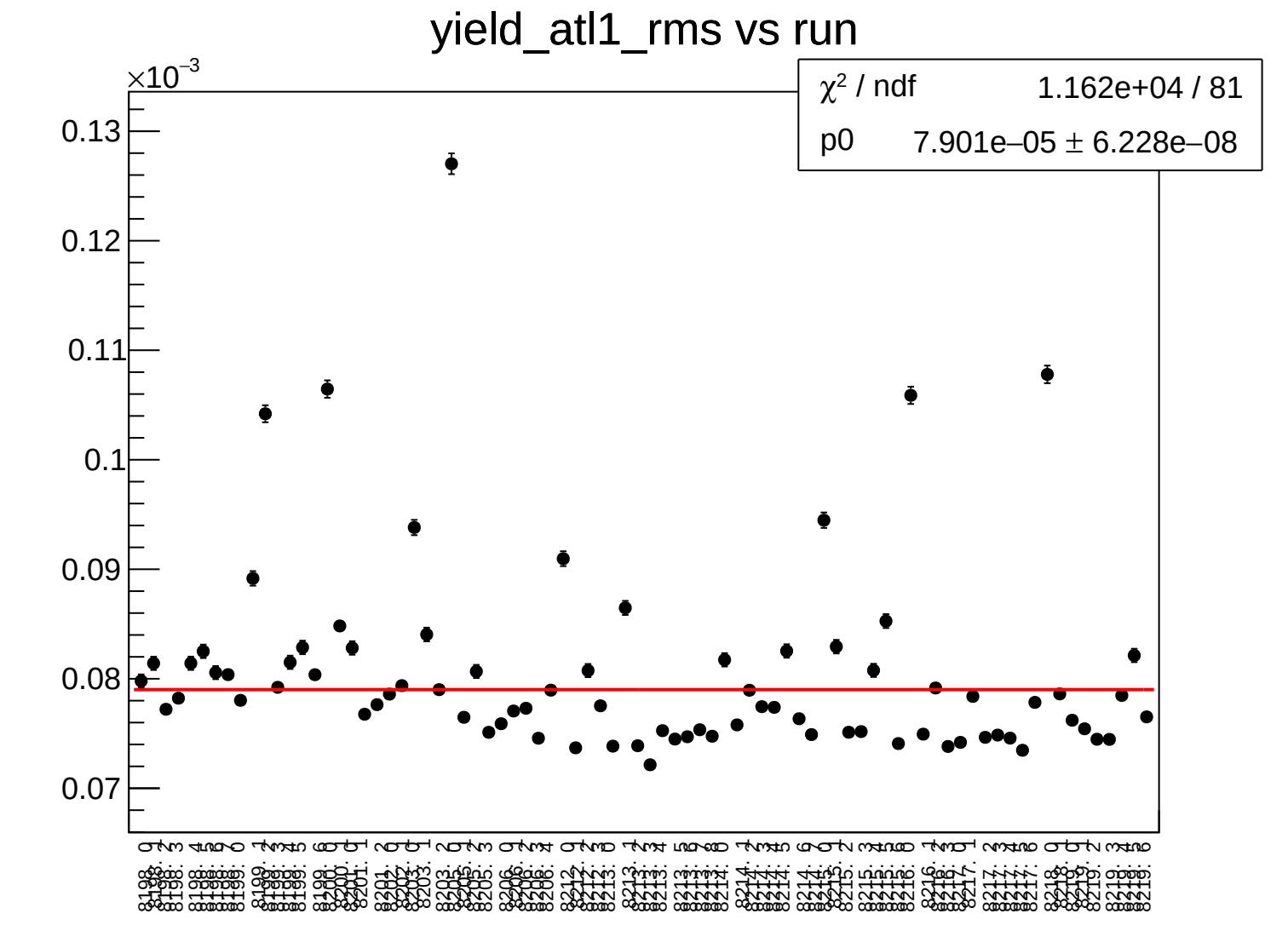

yield_dsl_rms vs run
χ² / ndf 1.027e+05 / 81
p0 0.06391 ± 5.186e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

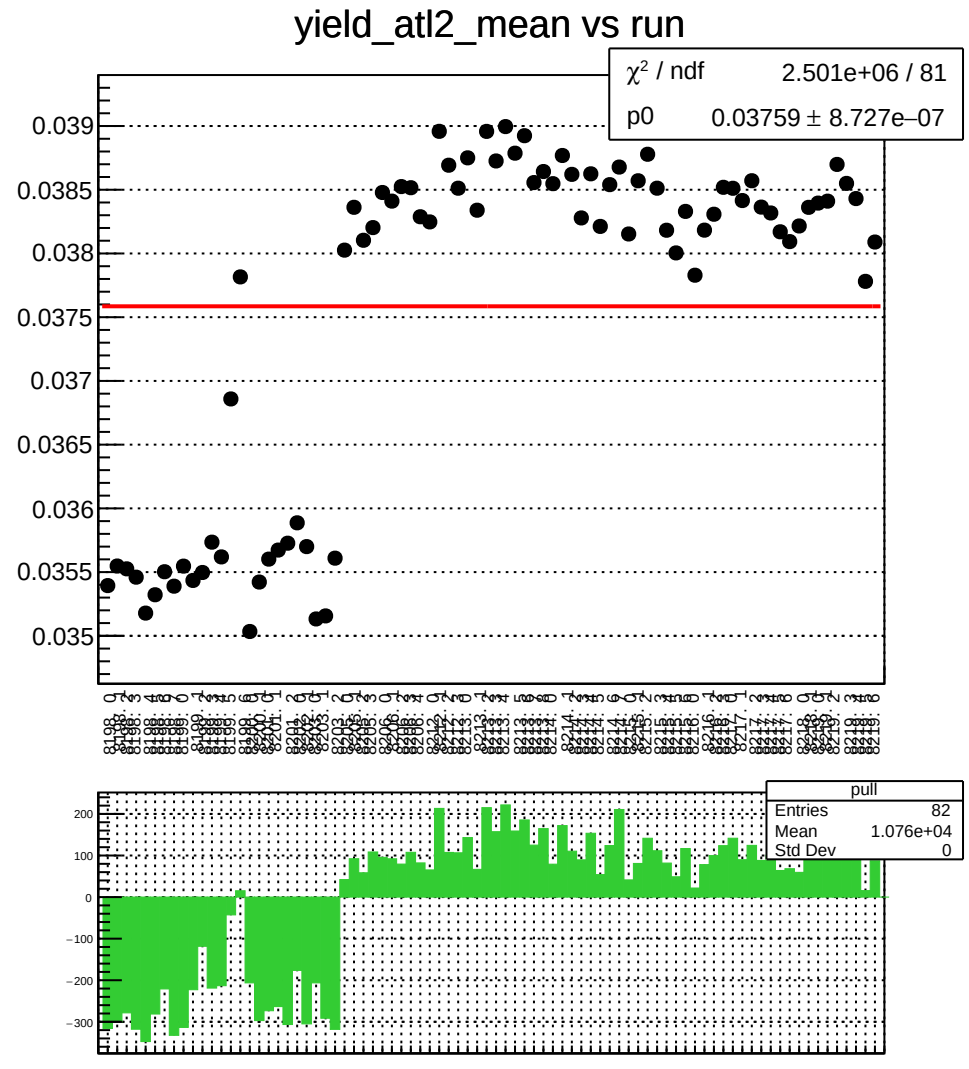

yield_dsr_mean vs run
χ² / ndf 3.268e+06 / 81
p0 −25.48 ± 5.316e−05
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
−25.6
−25.65
−25.7
pull
Entries 82
Mean 3664
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 82
Mean −0.04248
Std Dev 4.722
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

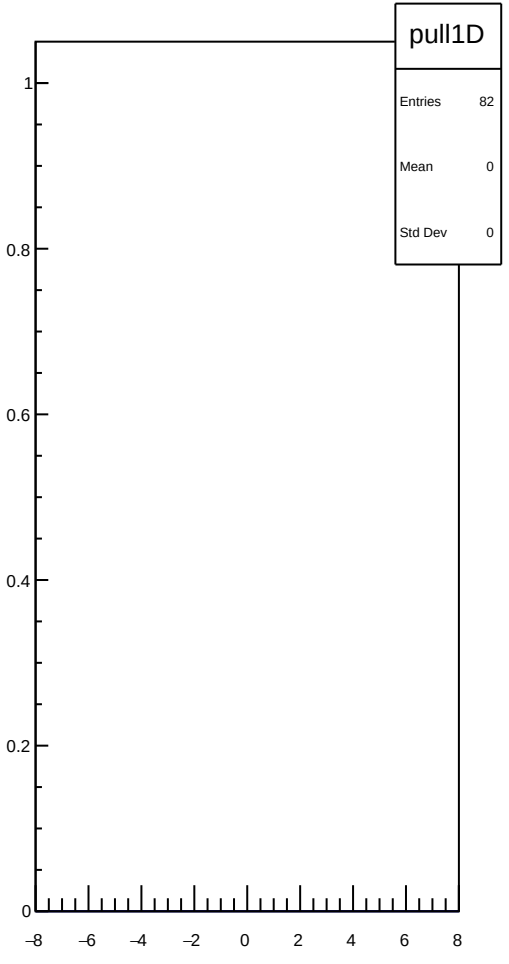

yield_dsr_rms vs run
χ² / ndf 2.165e+04 / 81
p0 0.04754 ± 3.759e–05
0.065
0.06
0.055
0.05
0.045
0.04
0.035

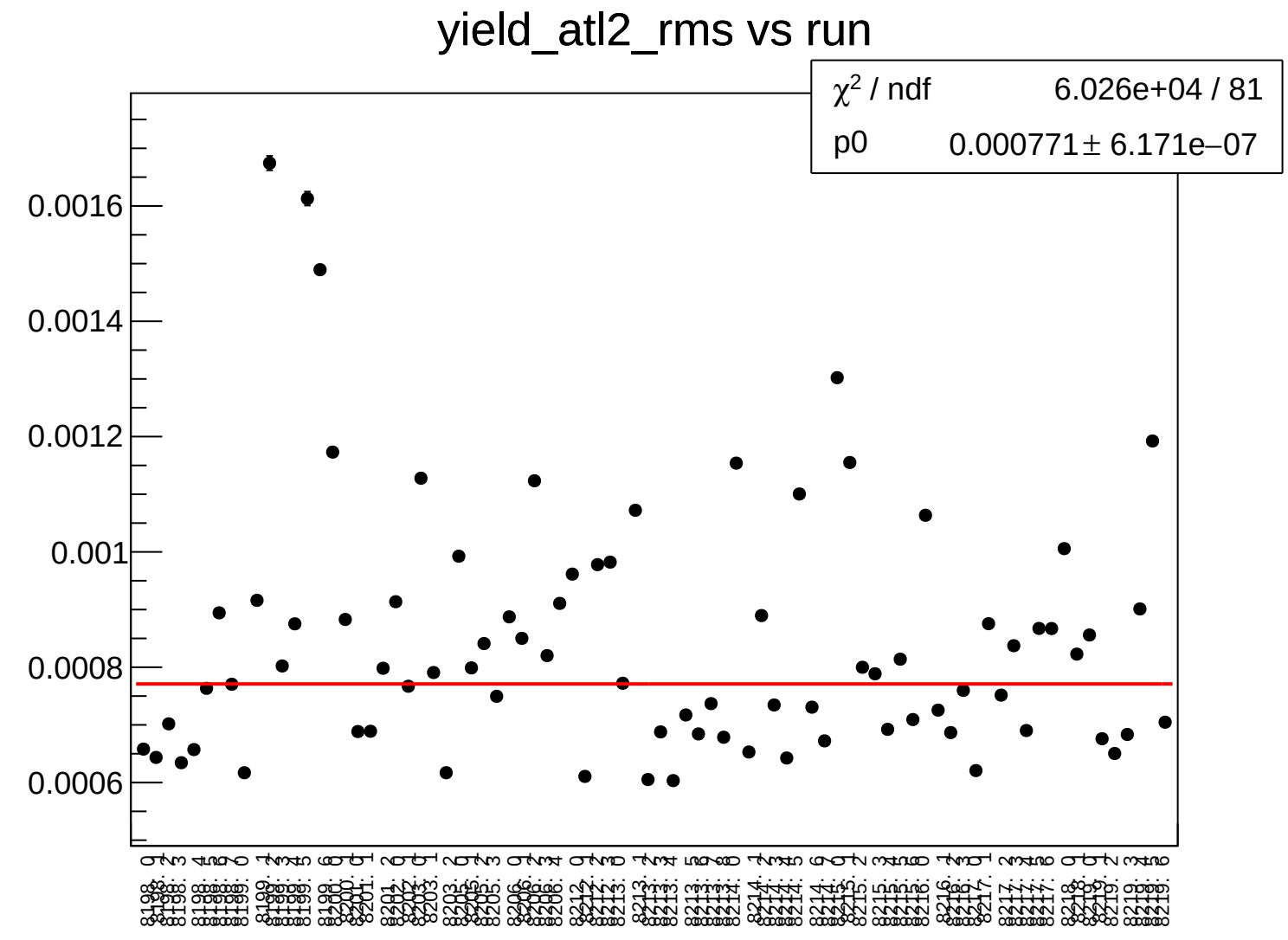

yield_atl1_mean vs run
χ² / ndf 1.198e+05 / 81
p0 0.02735 ± 8.807e−08
0.02748
0.02746
0.02744
0.02742
0.0274
0.02738
0.02736
0.02734
0.02732
0.0273
0.02728
pull
Entries 82
Mean −248.8
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

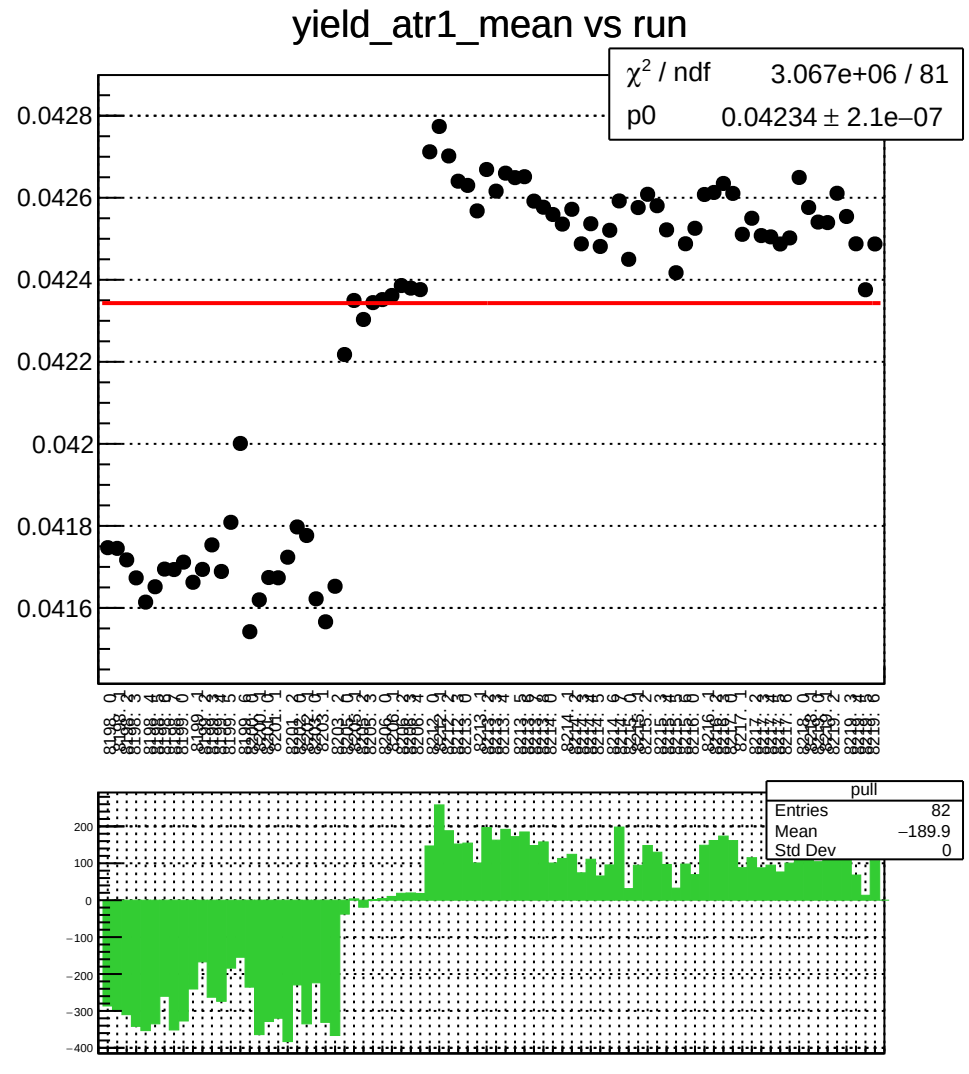

pull1D
Entries 82
Mean 0.3124
Std Dev 3.865
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

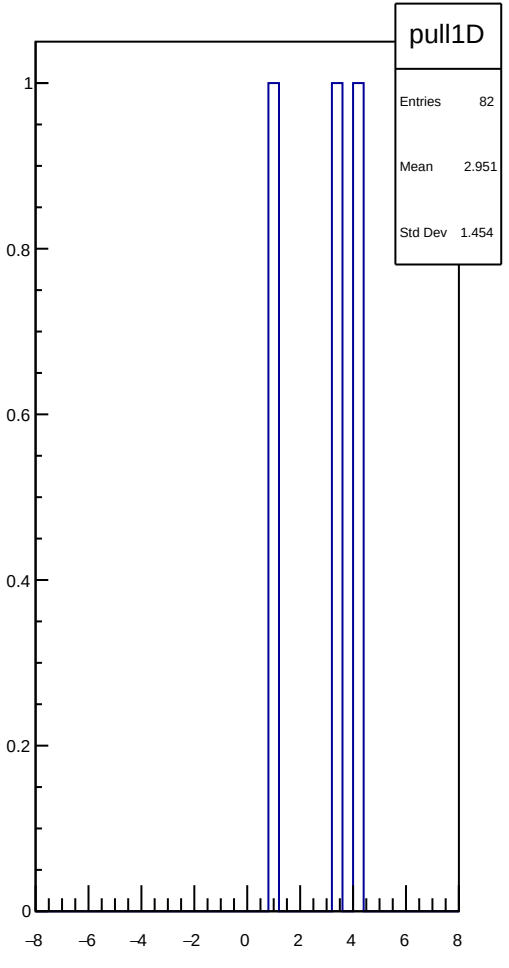

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.162e+04 / 81
p0 7.901e−05 ± 6.228e−08
0.13
0.12
0.11
0.1
0.09
0.08
0.07

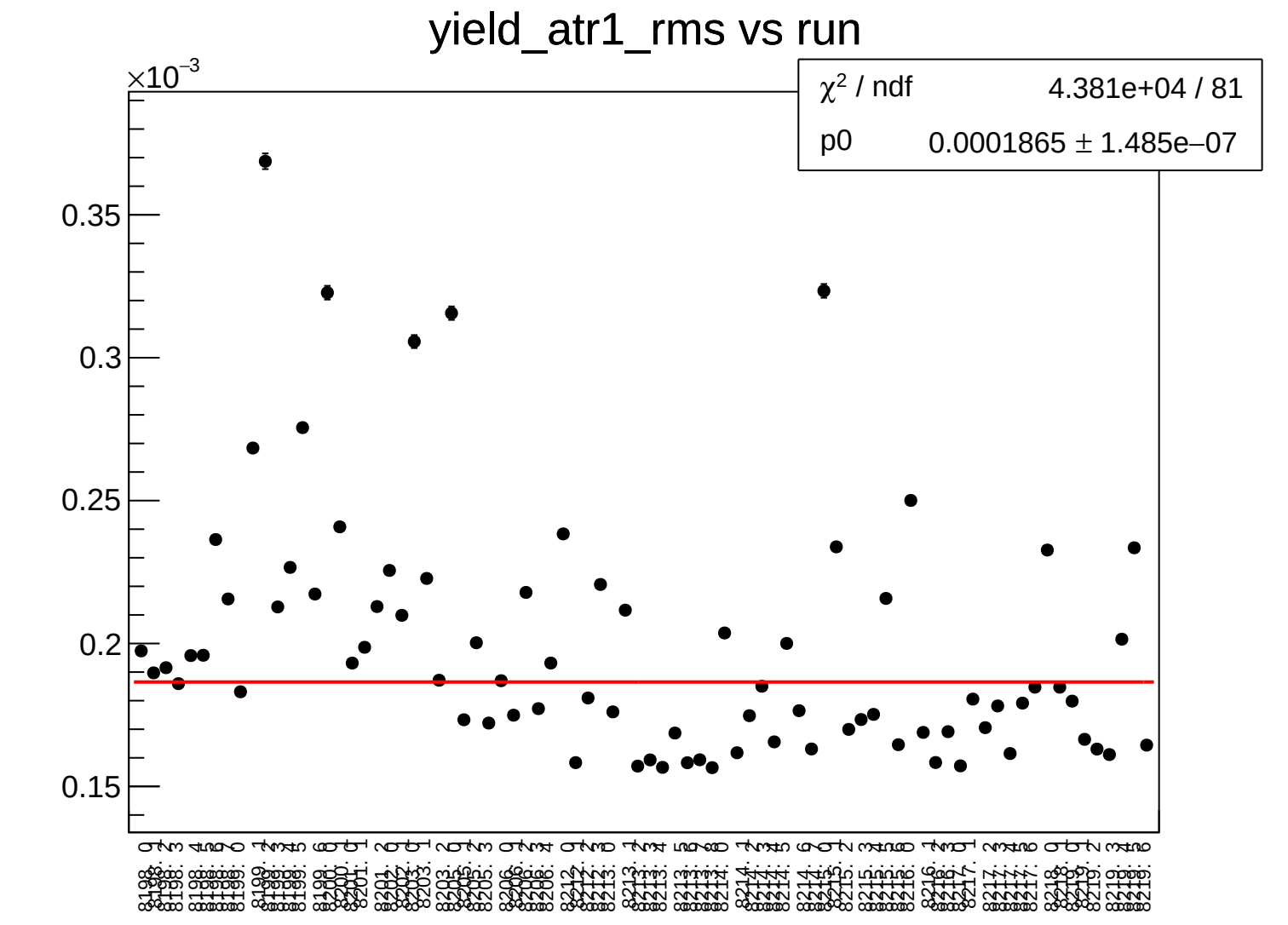

yield_atl2_mean vs run
χ² / ndf 2.501e+06 / 81
p0 0.03759 ± 8.727e−07
0.039
0.0385
0.038
0.0375
0.037
0.0365
0.036
0.0355
0.035
pull
Entries 82
Mean 1.076e+04
Std Dev 0
200
100
0
−100
−200
−300

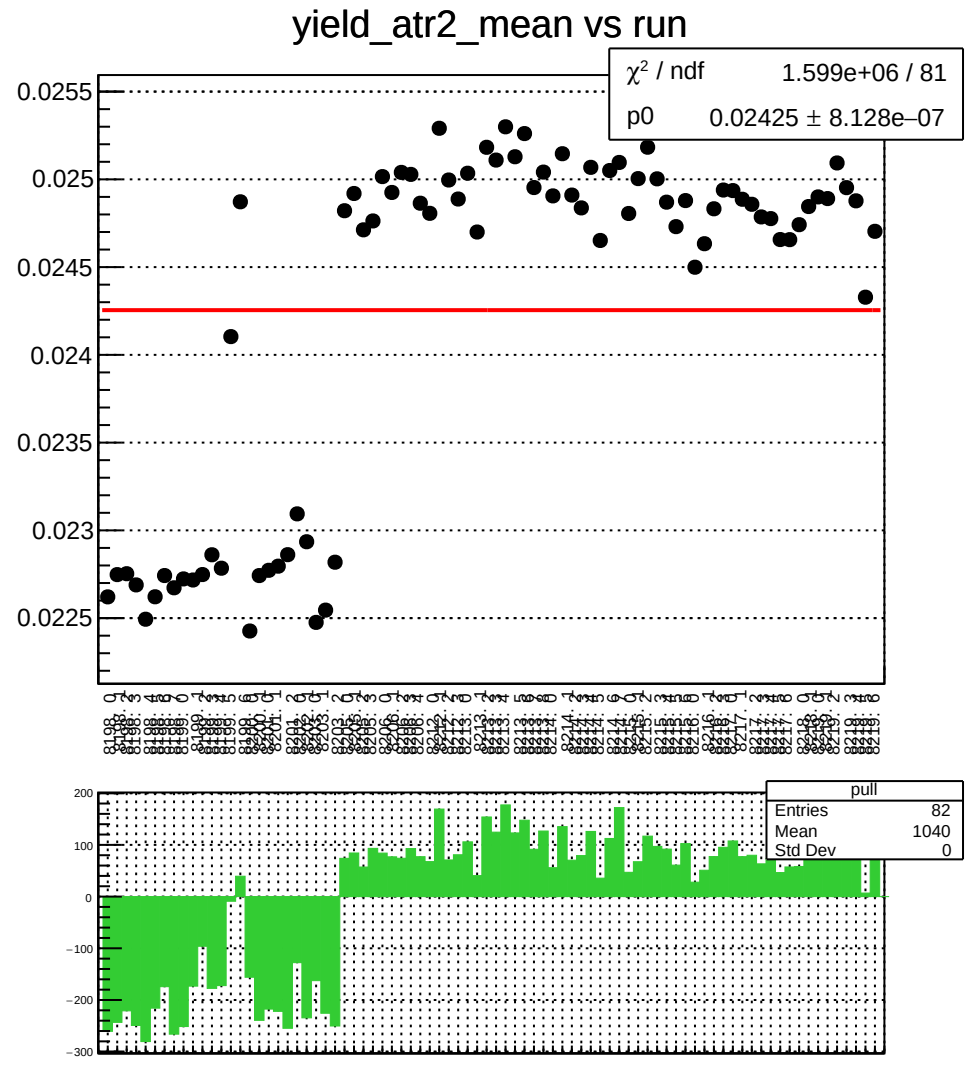

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

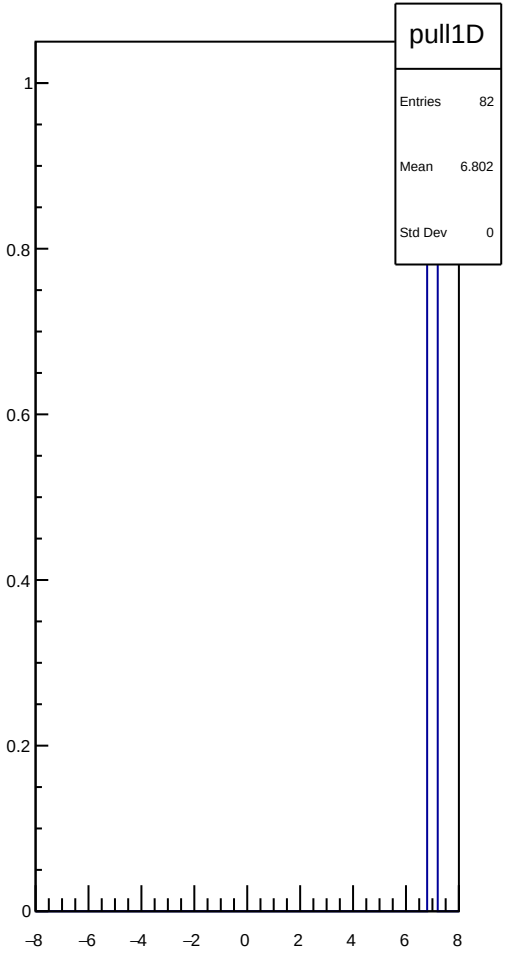

yield_atl2_rms vs run
χ² / ndf 6.026e+04 / 81
p0 0.000771 ± 6.171e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

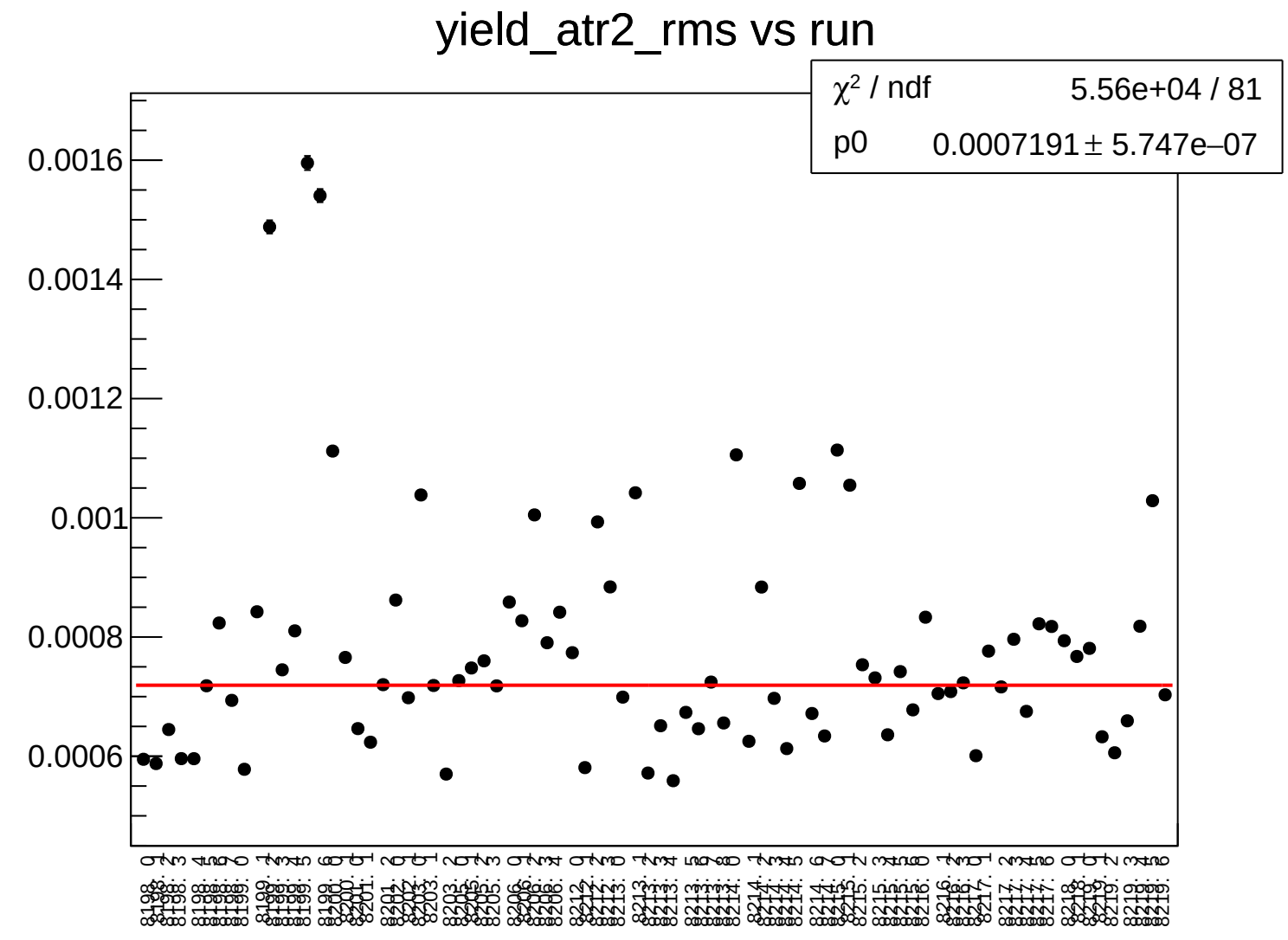

yield_atr1_mean vs run
χ² / ndf 3.067e+06 / 81
p0 0.04234 ± 2.1e−07
0.0428
0.0426
0.0424
0.0422
0.042
0.0418
0.0416
pull
Entries 82
Mean −189.9
Std Dev 0
200
100
0
−100
−200
−300
−400

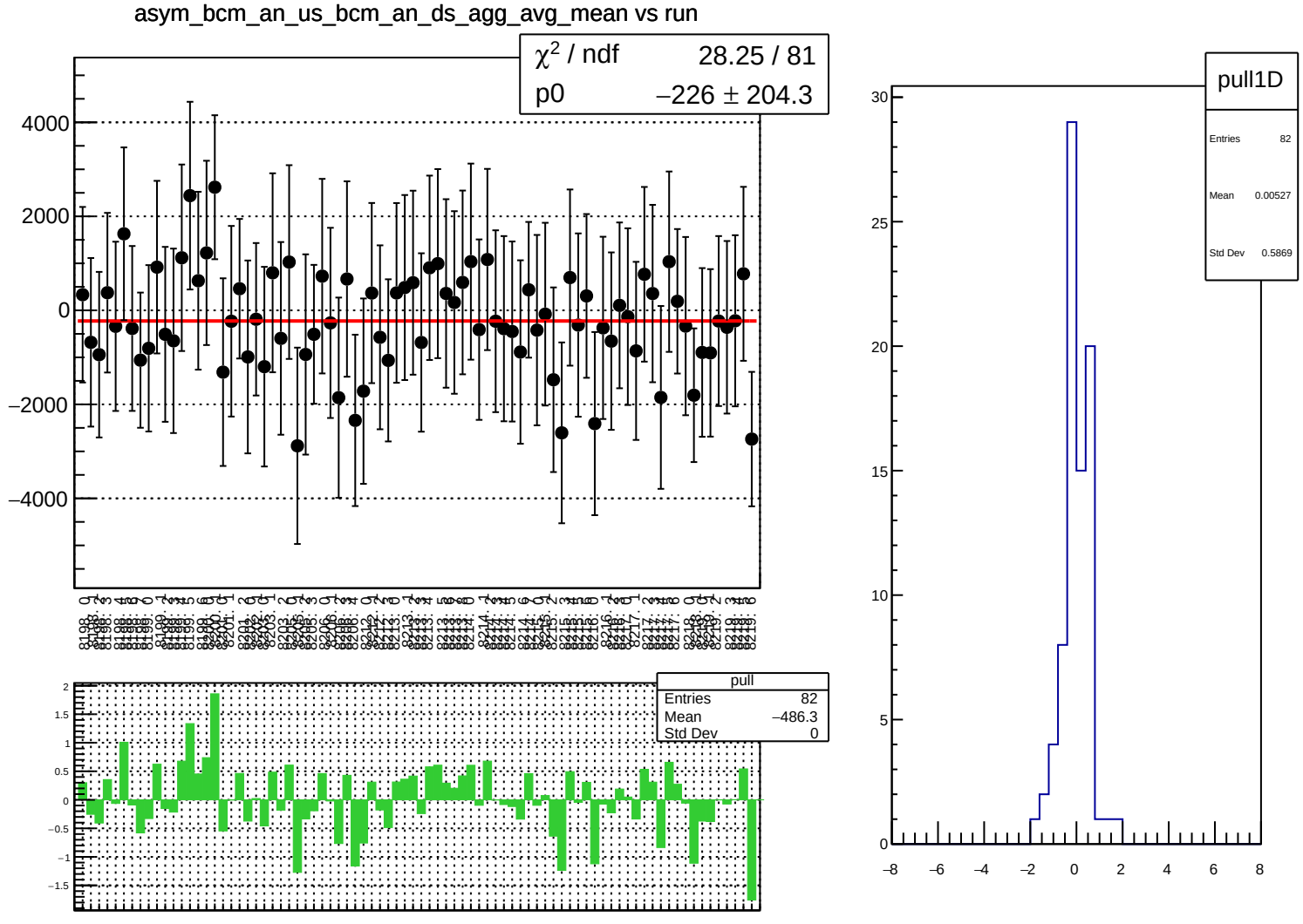

pull1D
Entries 82
Mean 2.951
Std Dev 1.454
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

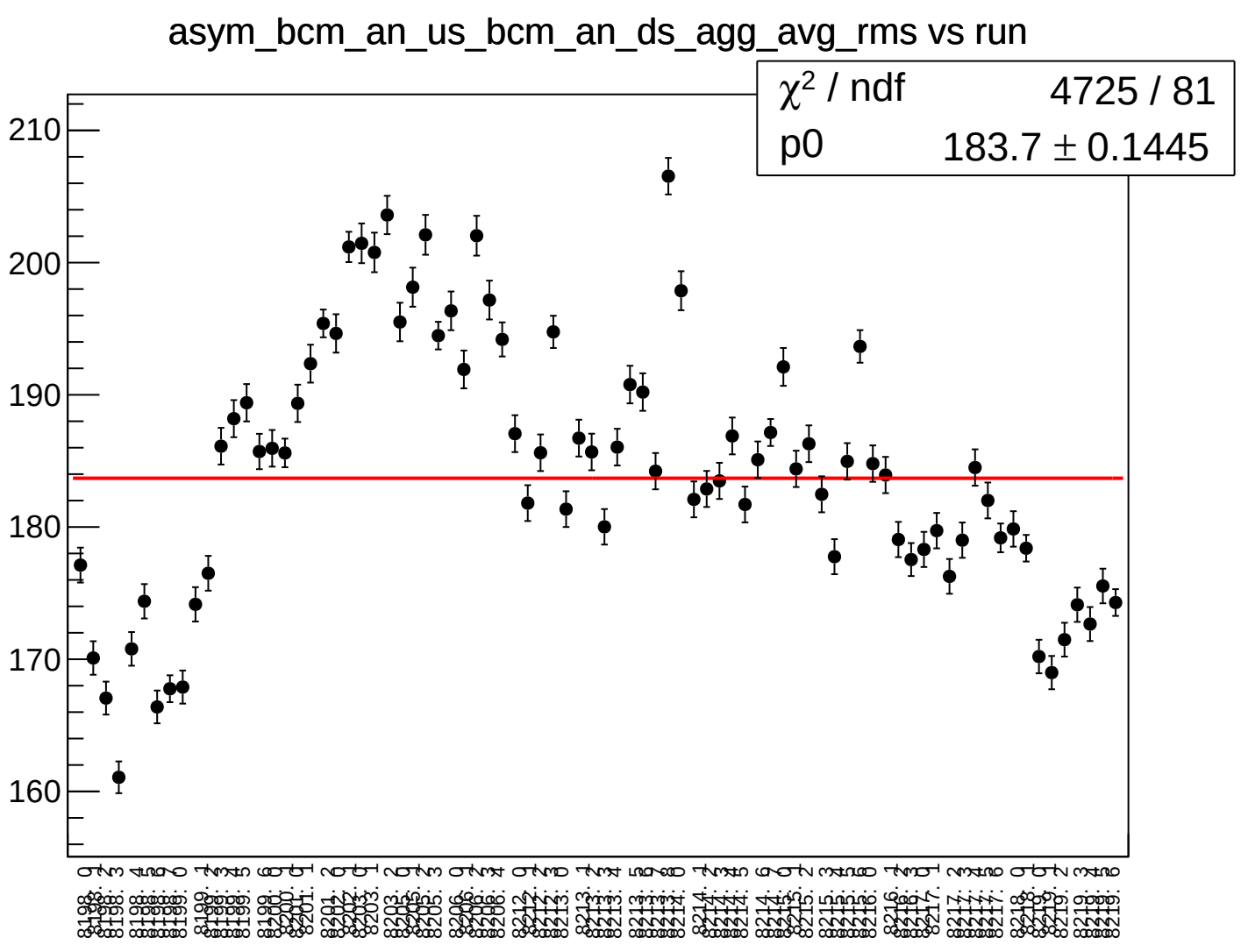

yield_atr1_rms vs run
×10⁻³
χ² / ndf 4.381e+04 / 81
p0 0.0001865 ± 1.485e−07
0.35
0.3
0.25
0.2
0.15

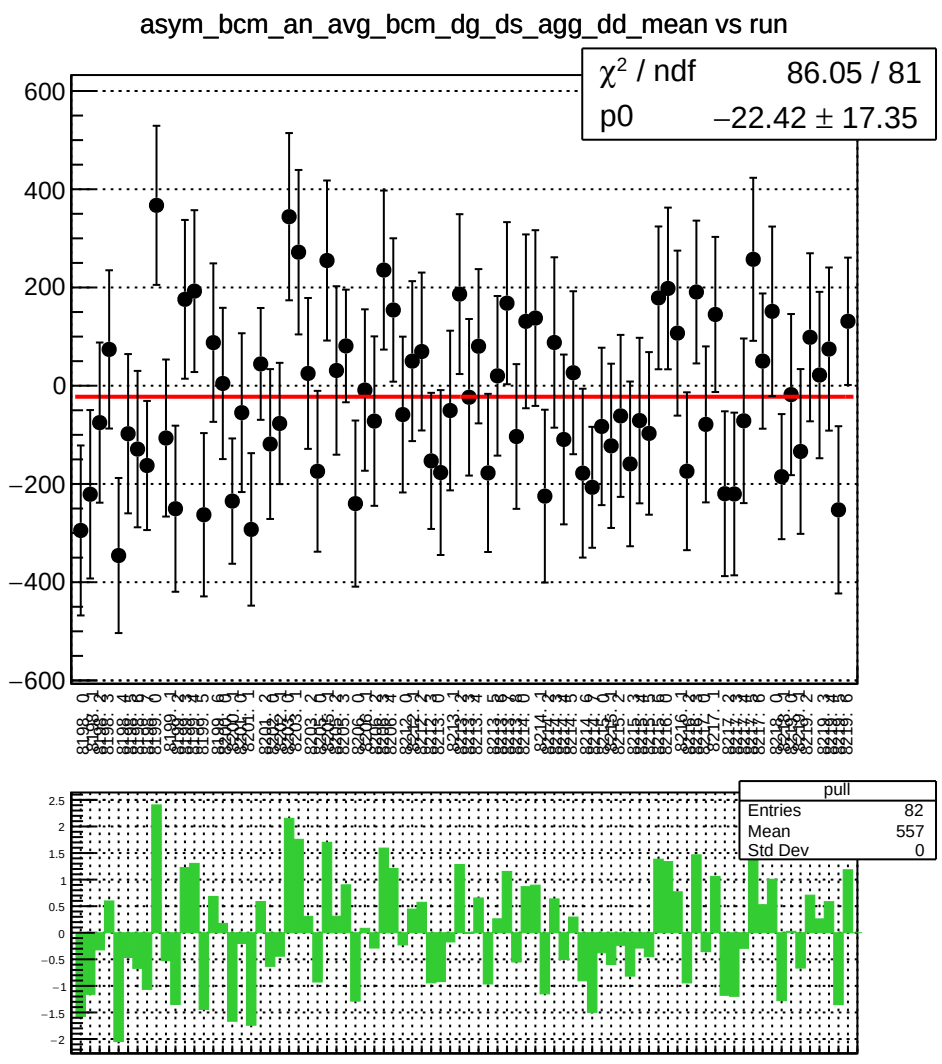

yield_atr2_mean vs run
χ² / ndf 1.599e+06 / 81
p0 0.02425 ± 8.128e−07
0.0255
0.025
0.0245
0.024
0.0235
0.023
0.0225
pull
Entries 82
Mean 1040
Std Dev 0
200
100
0
−100
−200
−300

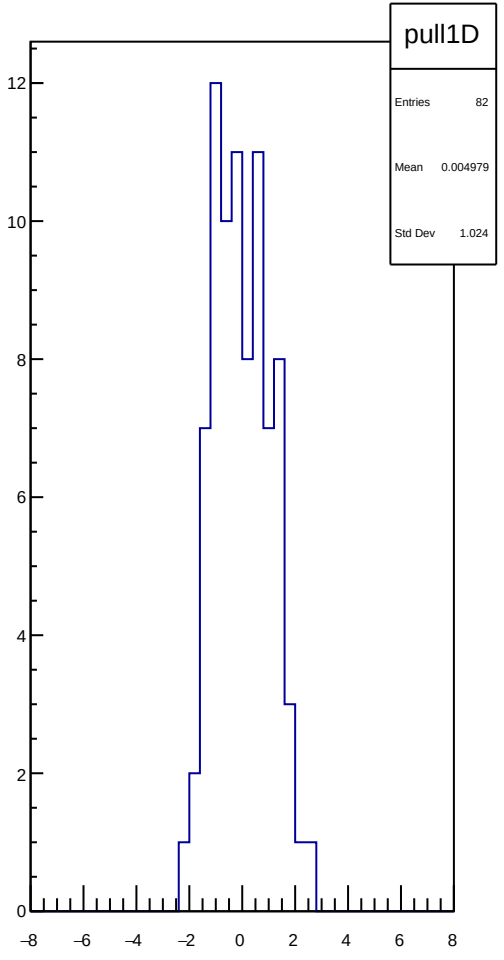

pull1D
Entries 82
Mean 6.802
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

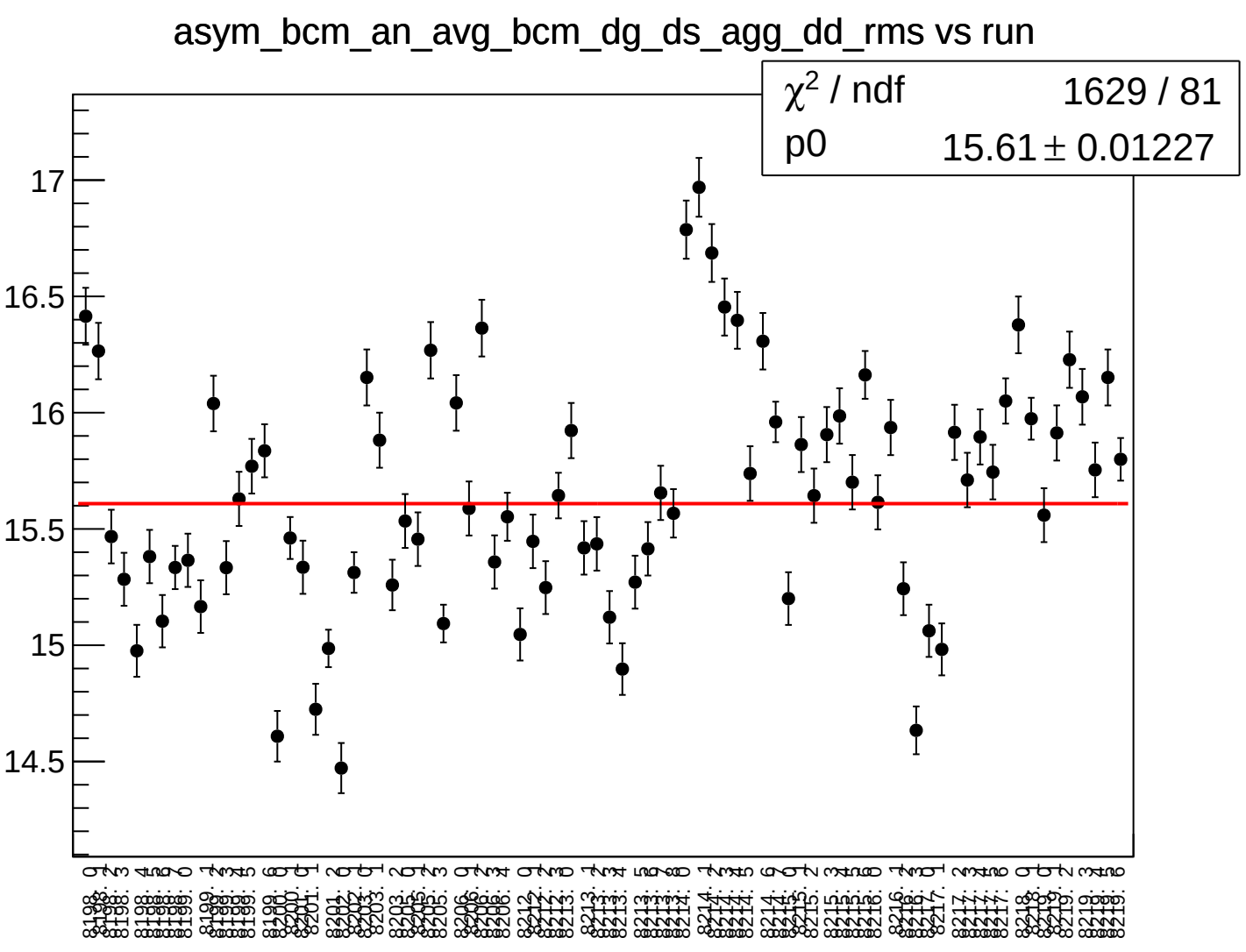

yield_atr2_rms vs run
χ² / ndf 5.56e+04 / 81
p0 0.0007191 ± 5.747e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

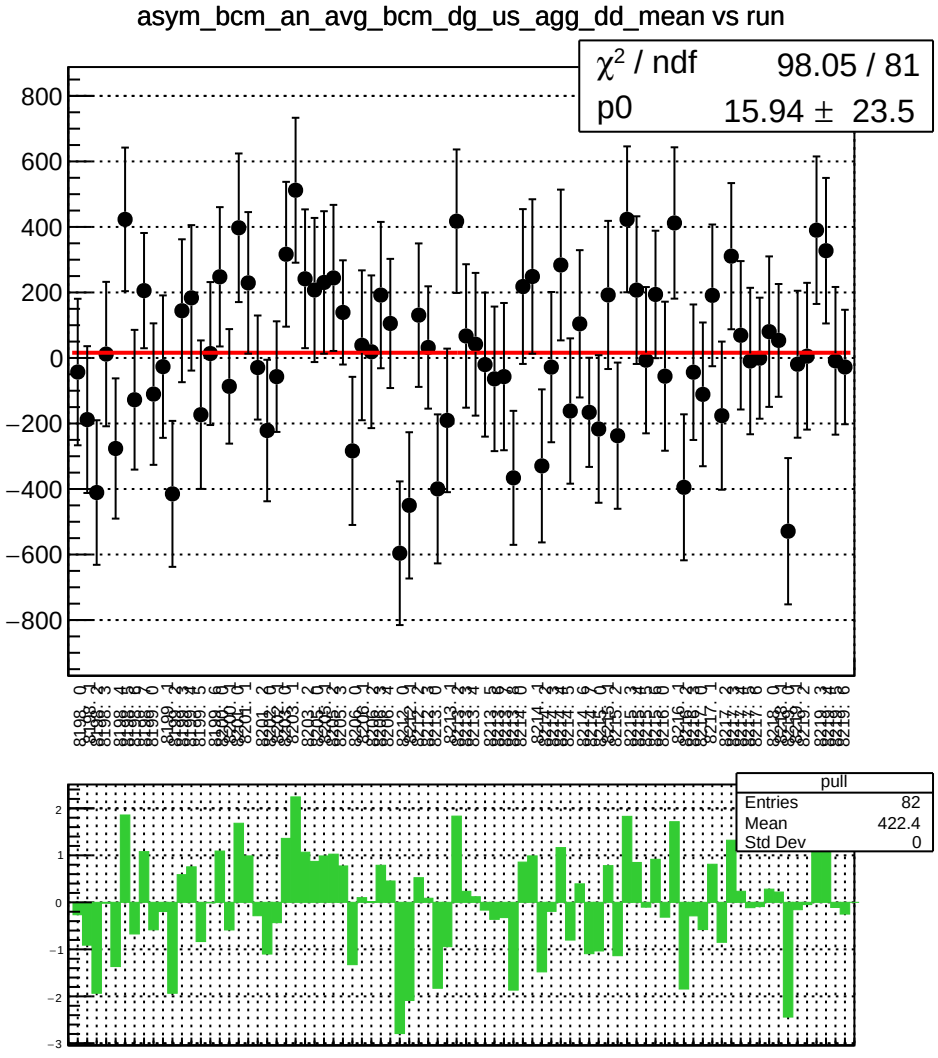

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 28.25 / 81
p0 −226 ± 204.3
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −486.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean 0.00527
Std Dev 0.5869
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

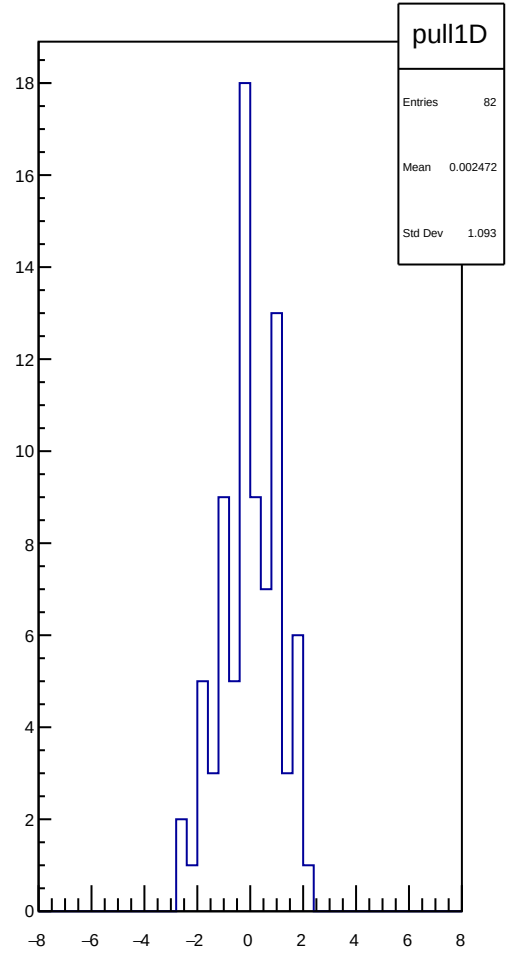

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4725 / 81
p0 183.7 ± 0.1445
210
200
190
180
170
160

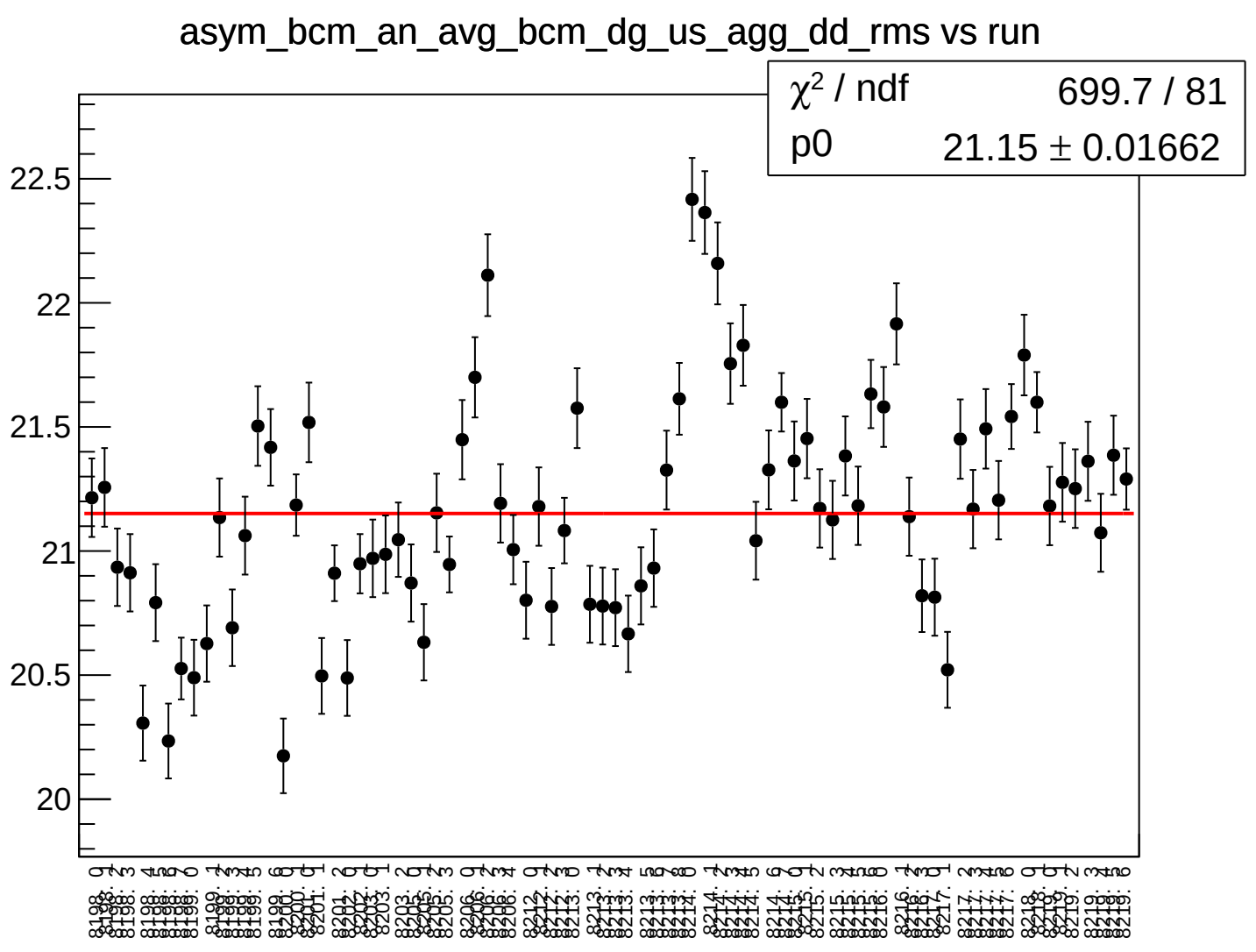

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 86.05 / 81
p0 −22.42 ± 17.35
pull
Entries 82
Mean 557
Std Dev 0

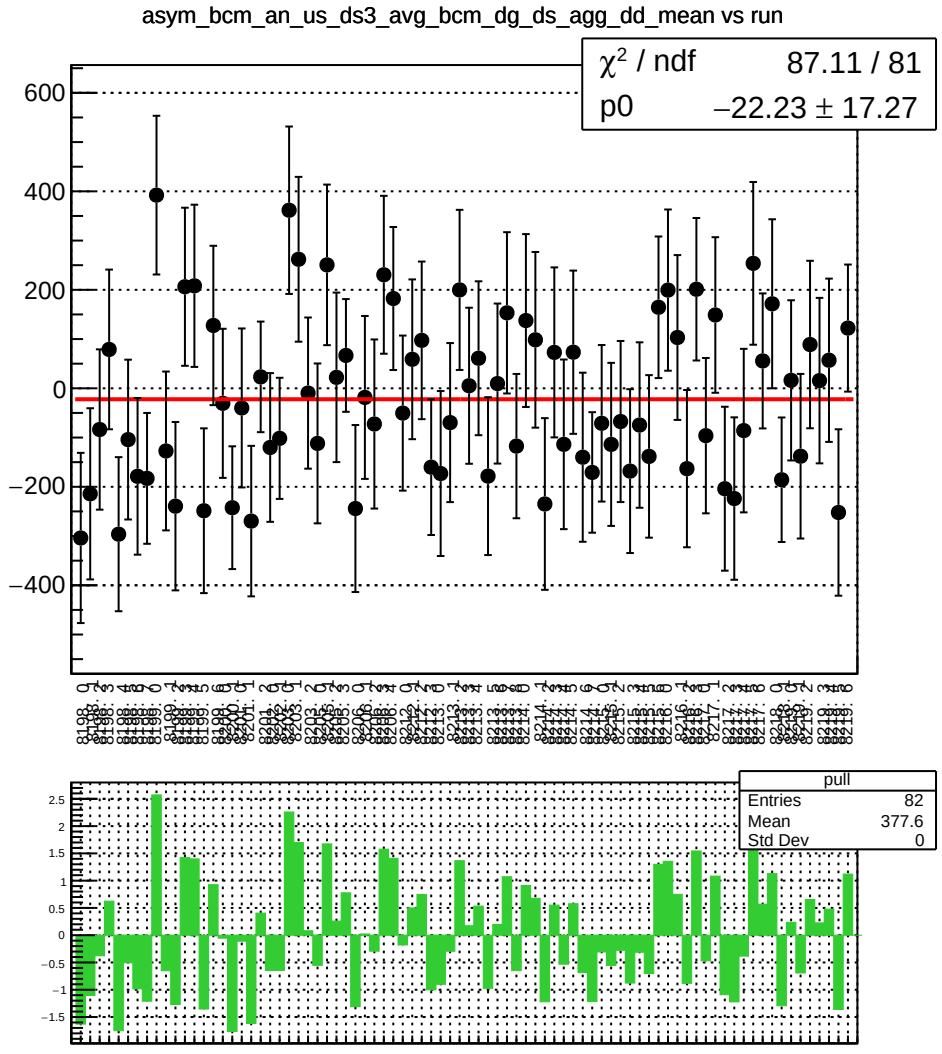

pull1D
Entries 82
Mean 0.004979
Std Dev 1.024

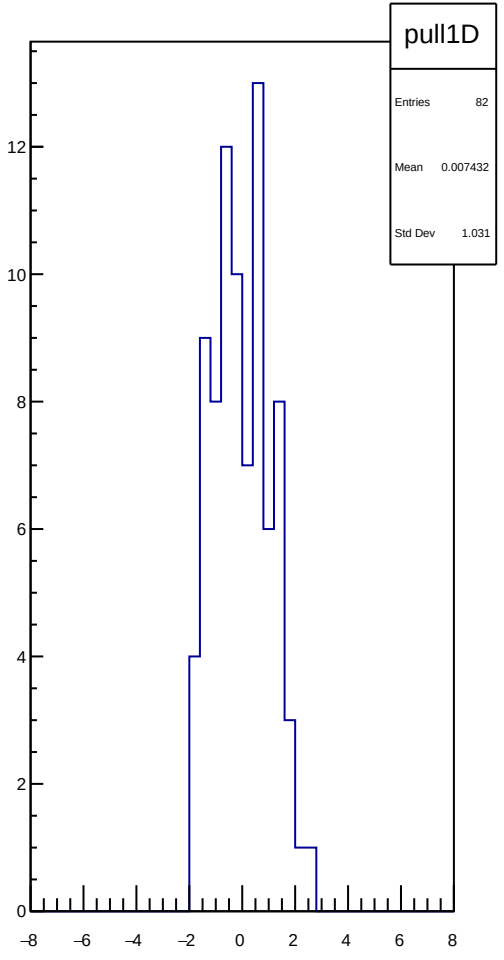

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1629 / 81
p0 15.61 ± 0.01227
17
16.5
16
15.5
15
14.5

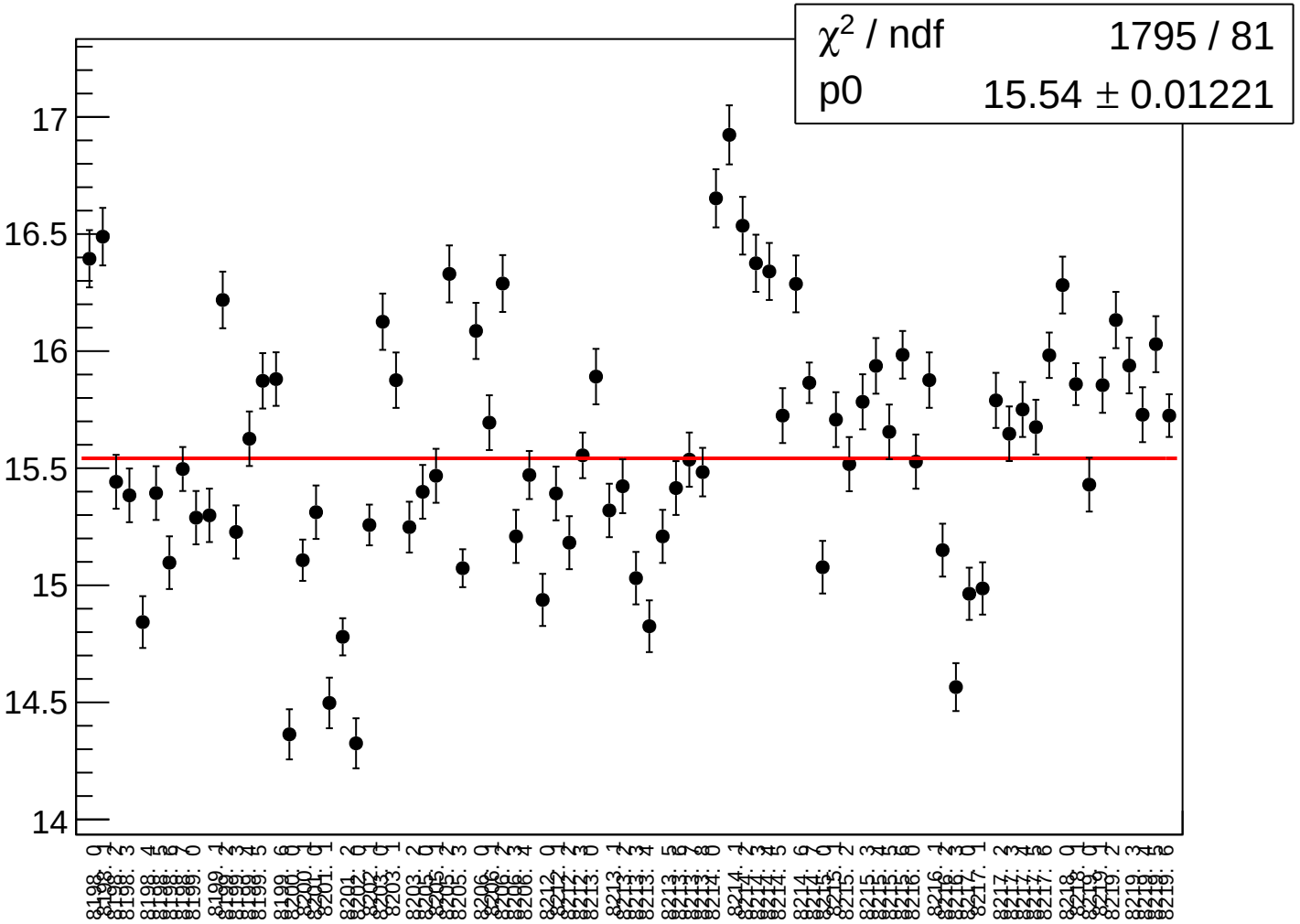

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 98.05 / 81
p0 15.94 ± 23.5
pull
Entries 82
Mean 422.4
Std Dev 0

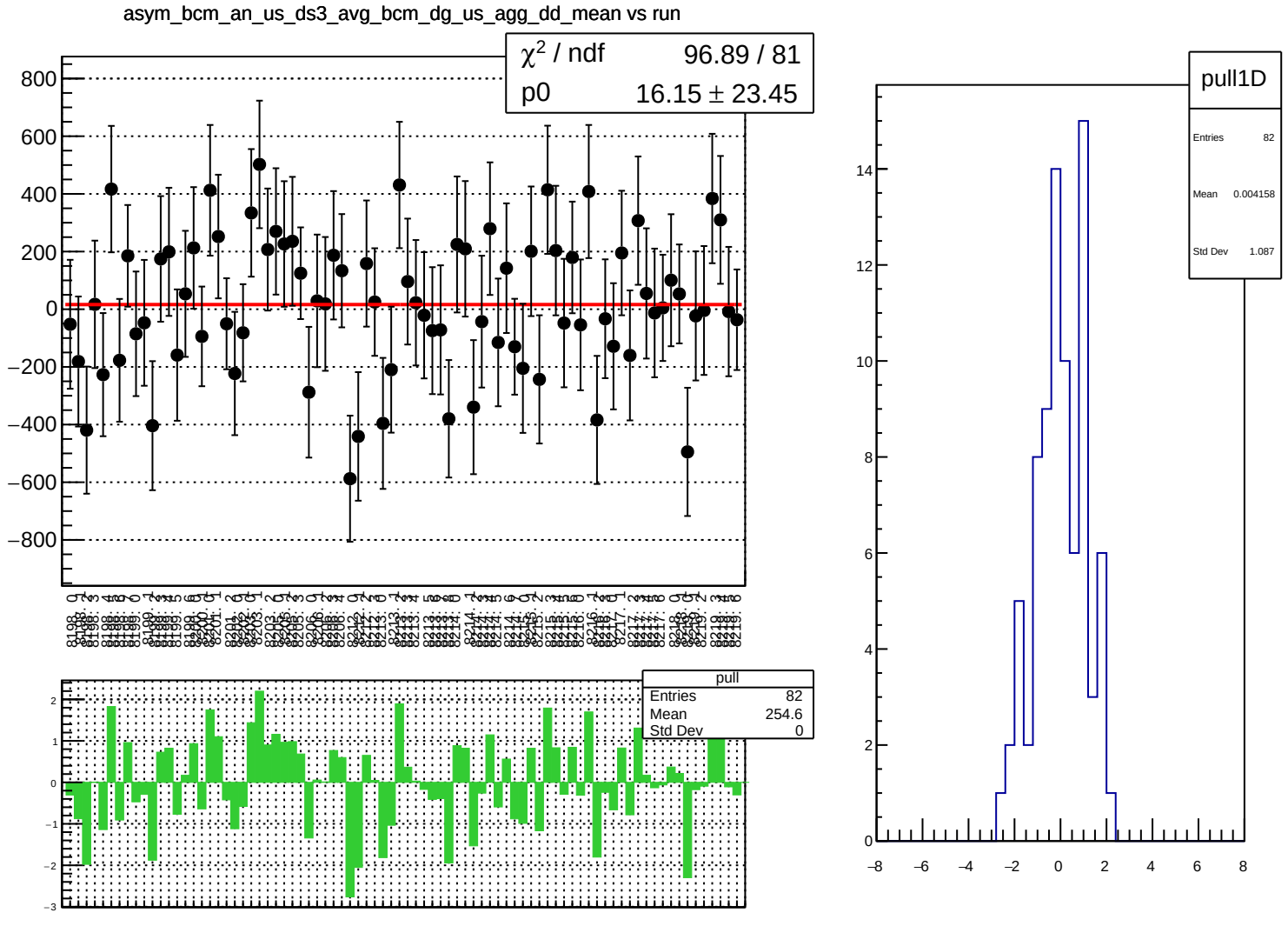

pull1D
Entries 82
Mean 0.002472
Std Dev 1.093

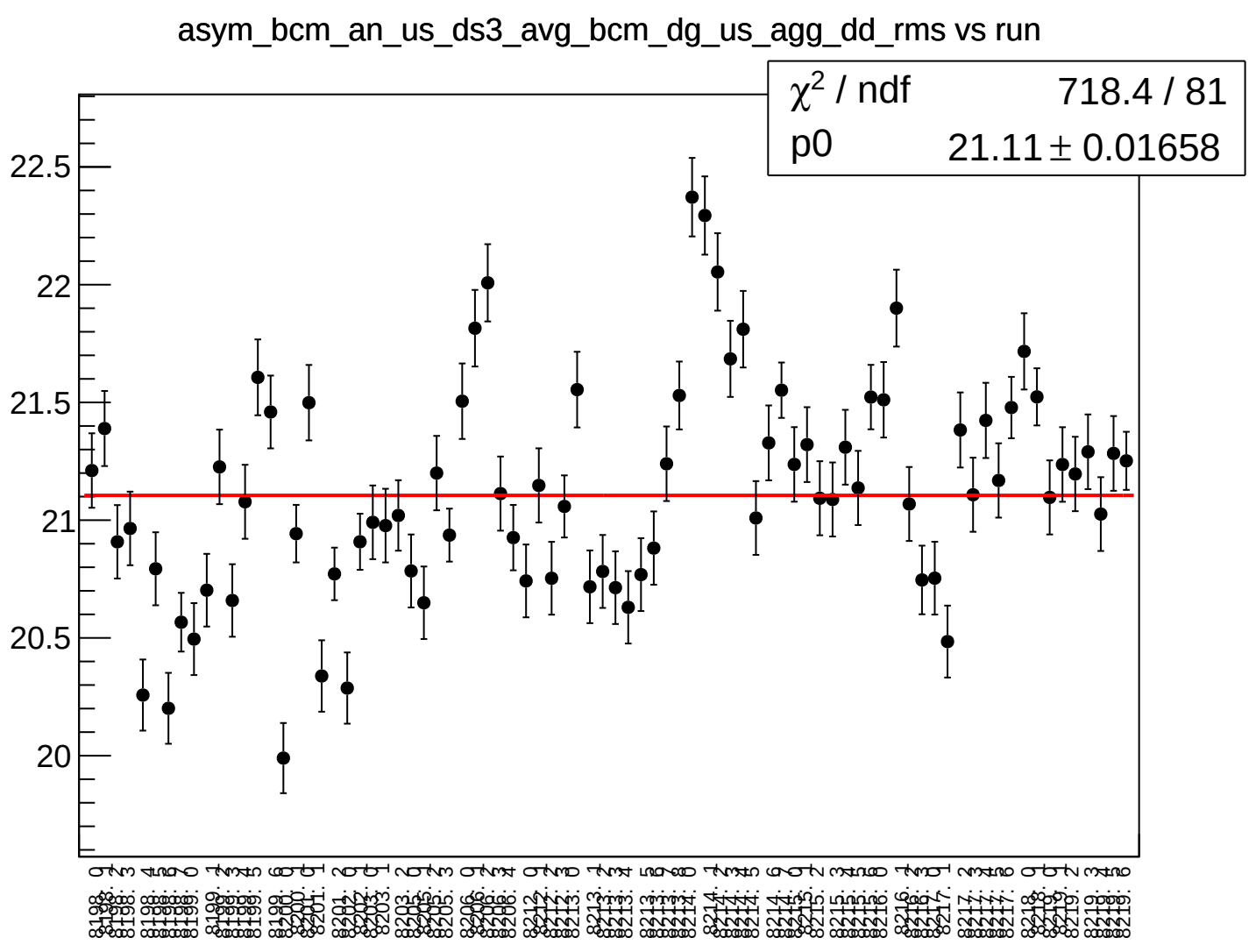

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 699.7 / 81
p0 21.15 ± 0.01662
22.5
22
21.5
21
20.5
20

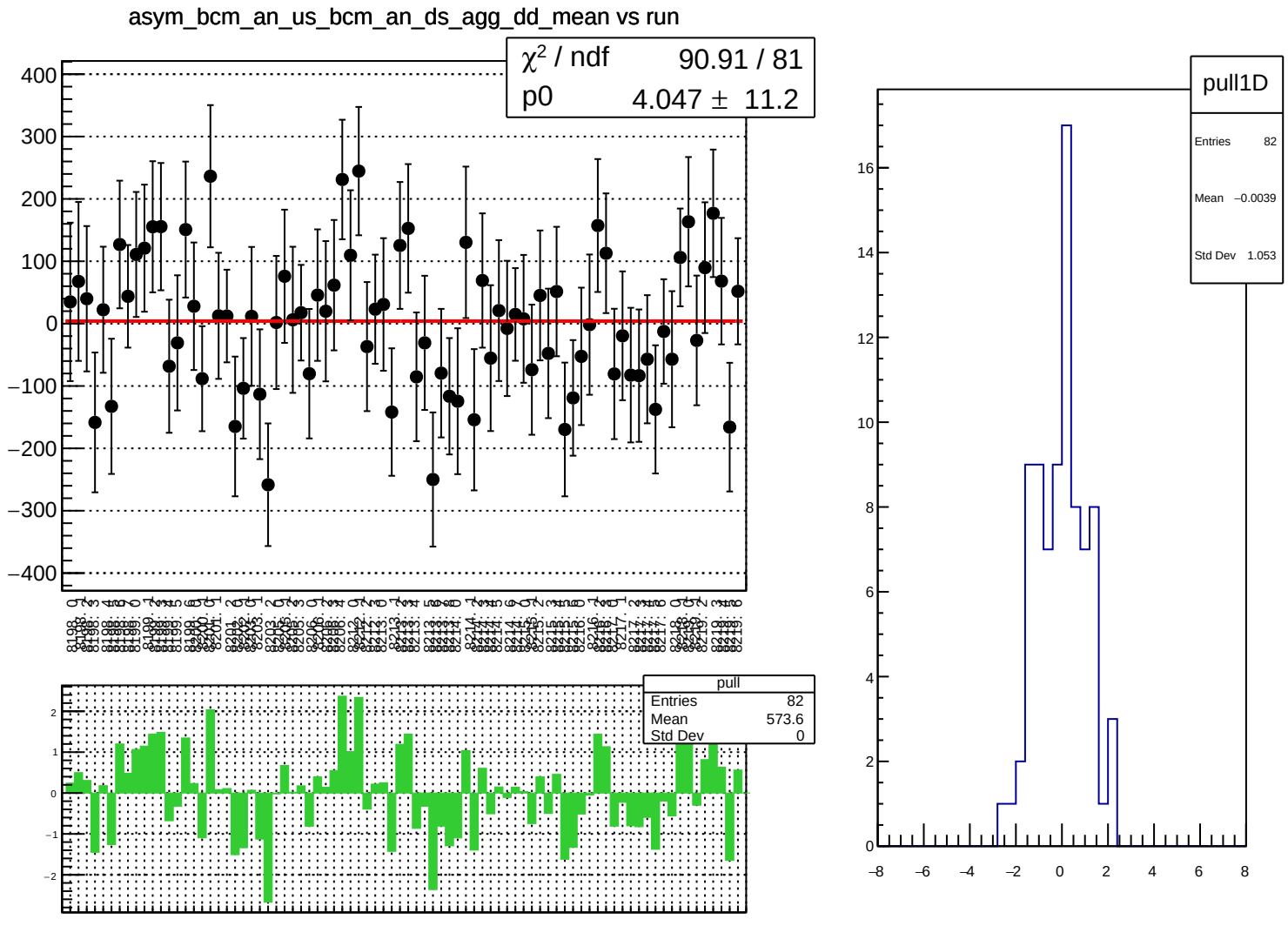

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 87.11 / 81
p0 −22.23 ± 17.27
600
400
200
0
−200
−400
pull
Entries 82
Mean 377.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

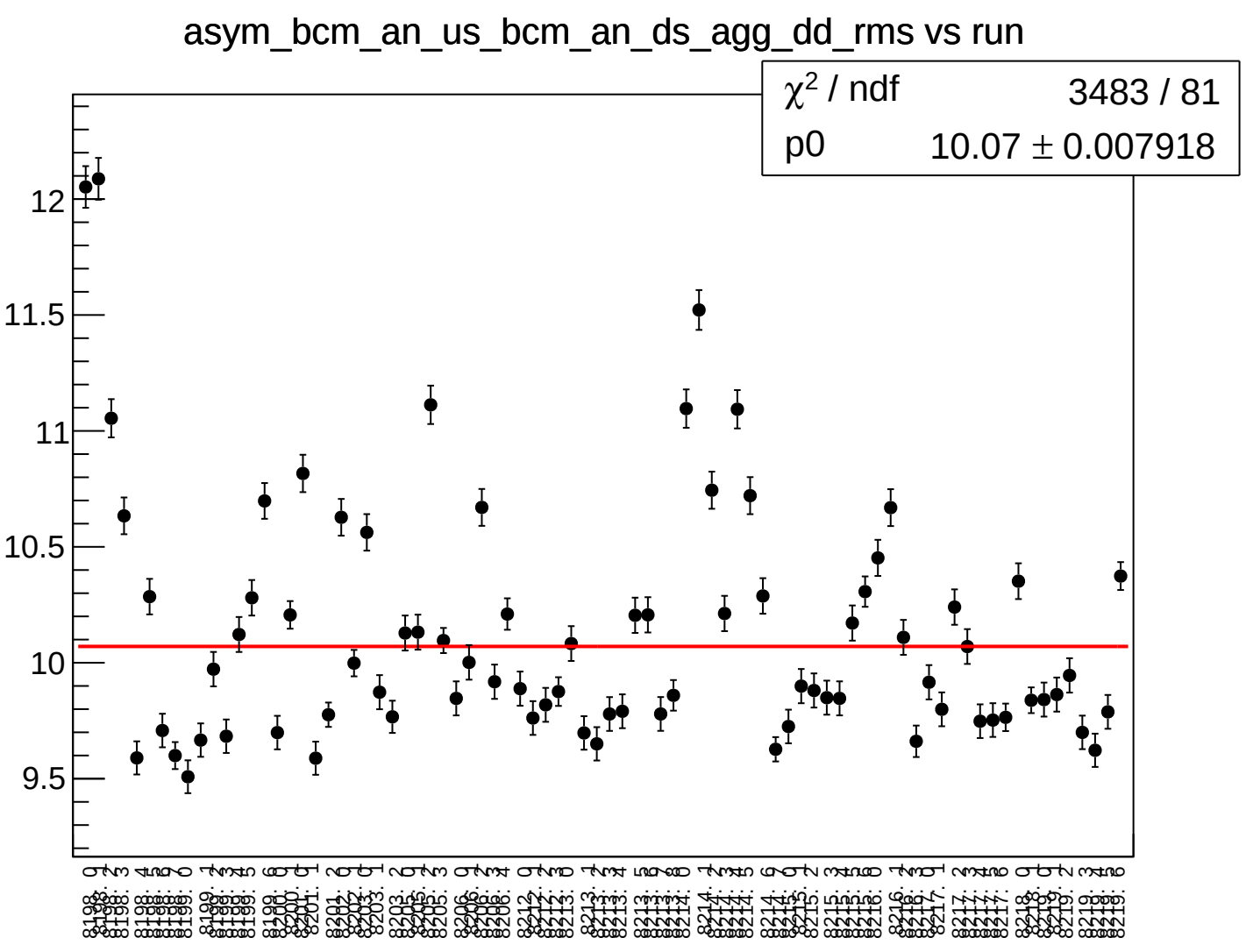

pull1D
Entries 82
Mean 0.007432
Std Dev 1.031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

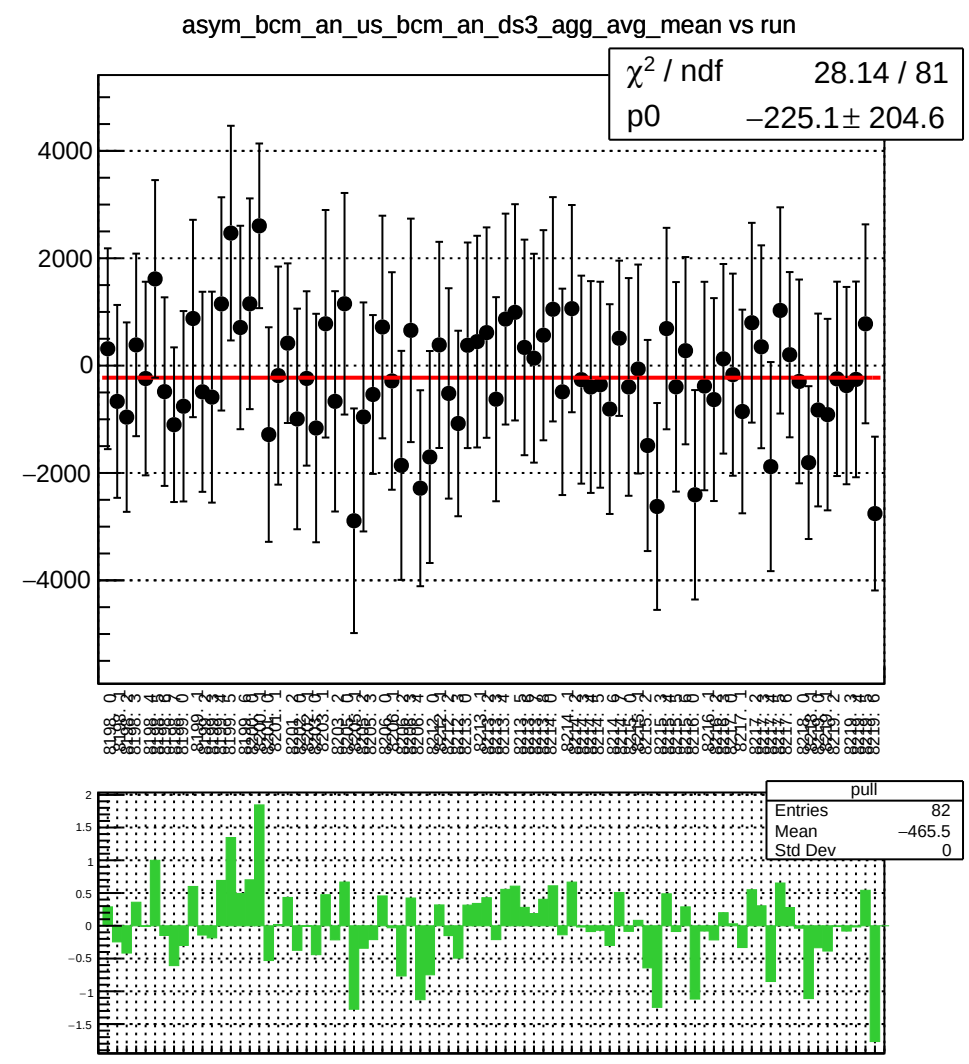

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1795 / 81
p0 15.54 ± 0.01221
17
16.5
16
15.5
15
14.5
14

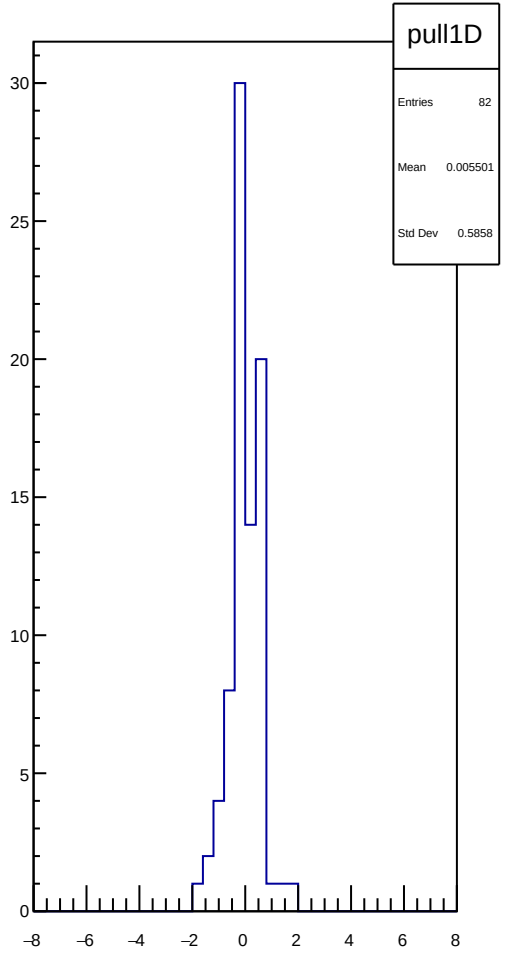

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 96.89 / 81
p0 16.15 ± 23.45
pull
Entries 82
Mean 254.6
Std Dev 0
pull1D
Entries 82
Mean 0.004158
Std Dev 1.087

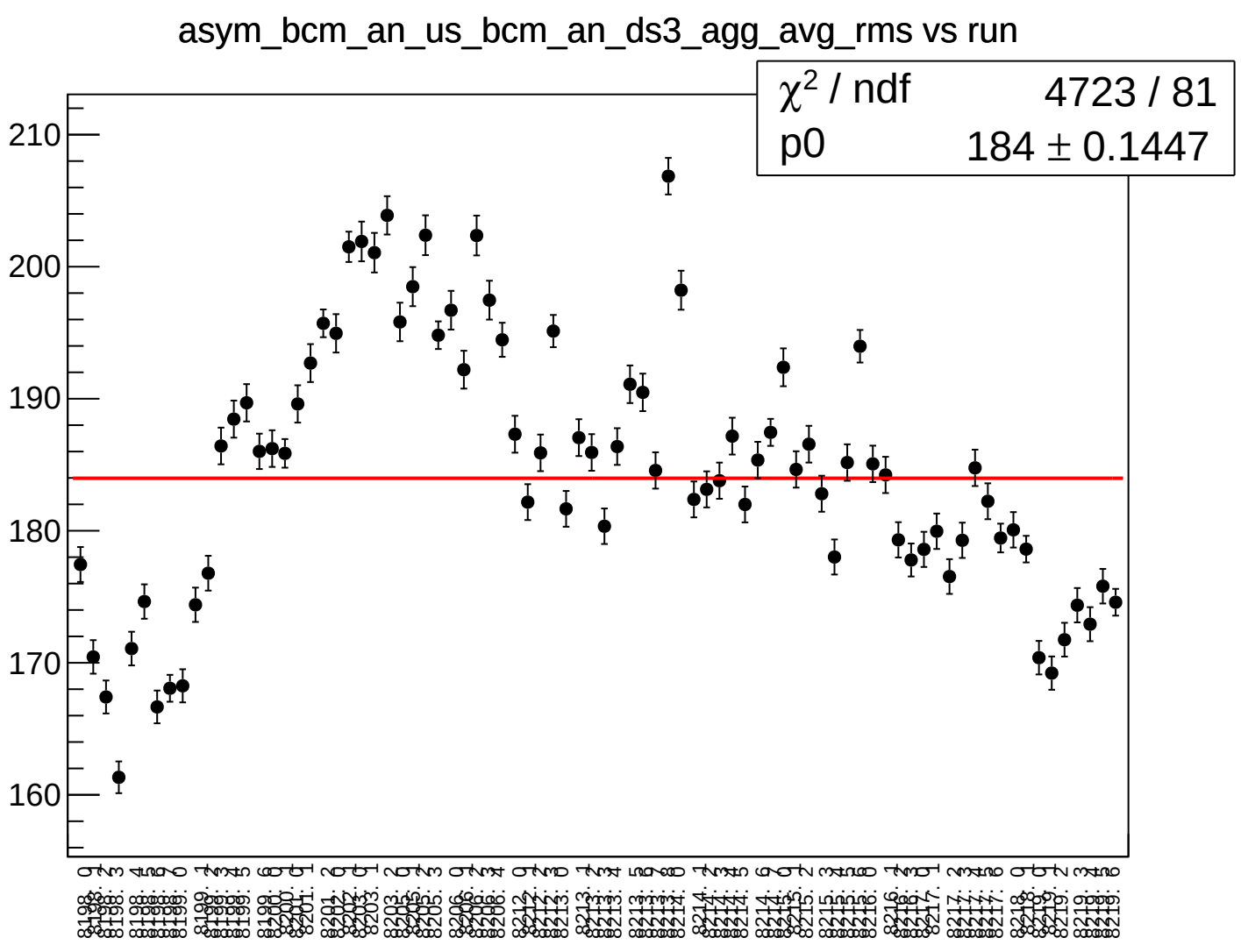

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 718.4 / 81
p0 21.11 ± 0.01658
22.5
22
21.5
21
20.5
20

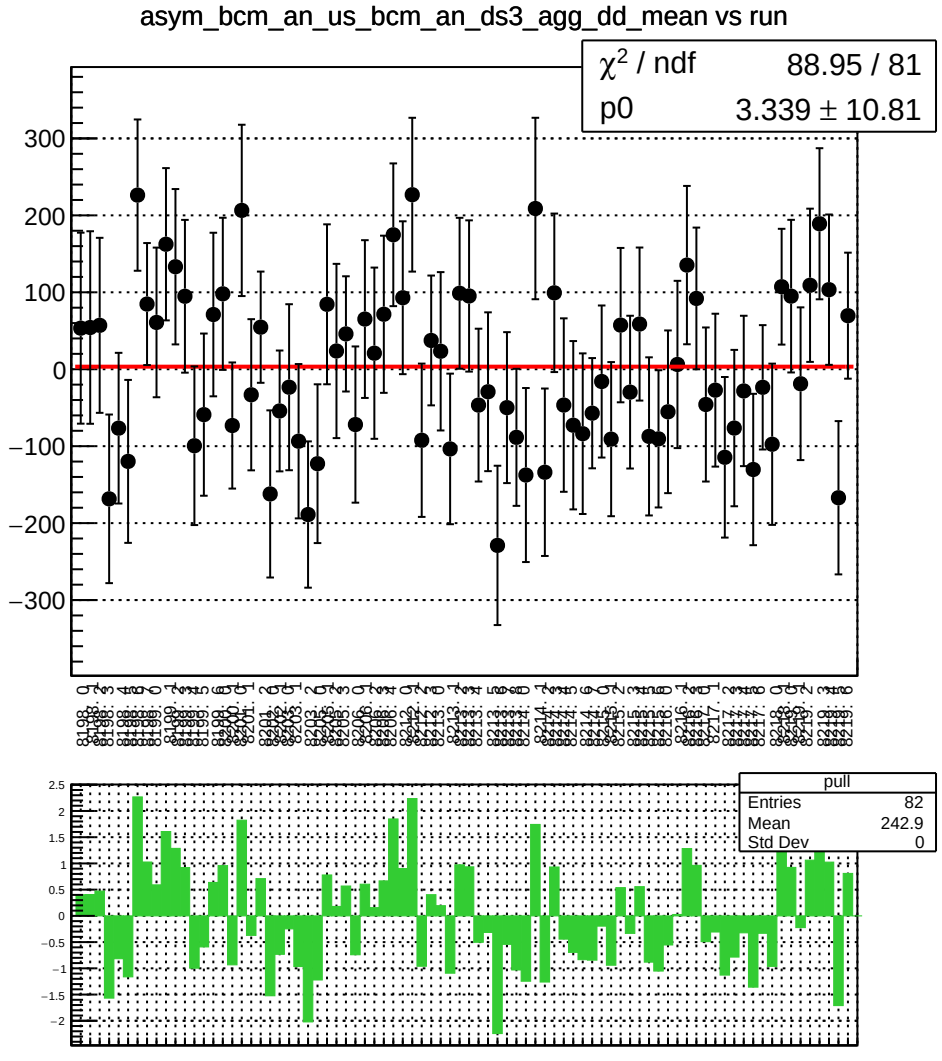

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 90.91 / 81
p0 4.047 ± 11.2
pull
Entries 82
Mean 573.6
Std Dev 0
pull1D
Entries 82
Mean −0.0039
Std Dev 1.053

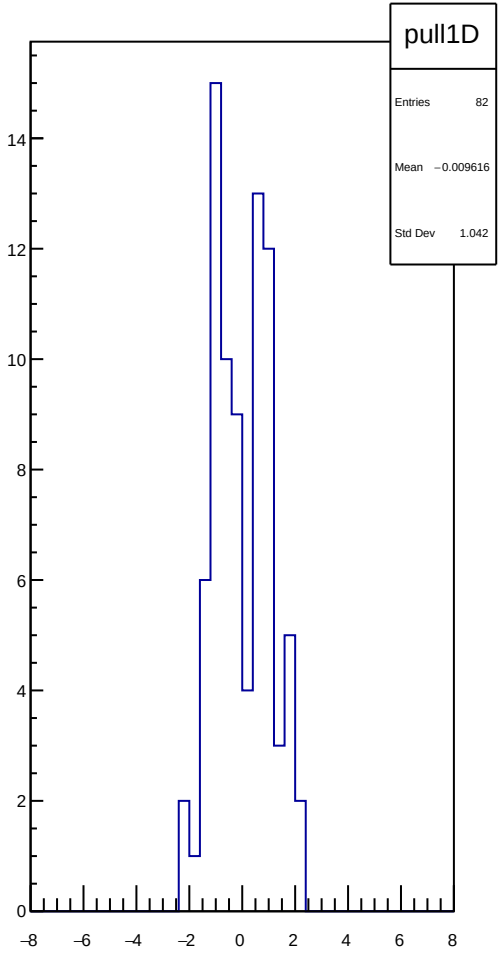

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3483 / 81
p0 10.07 ± 0.007918
12
11.5
11
10.5
10
9.5

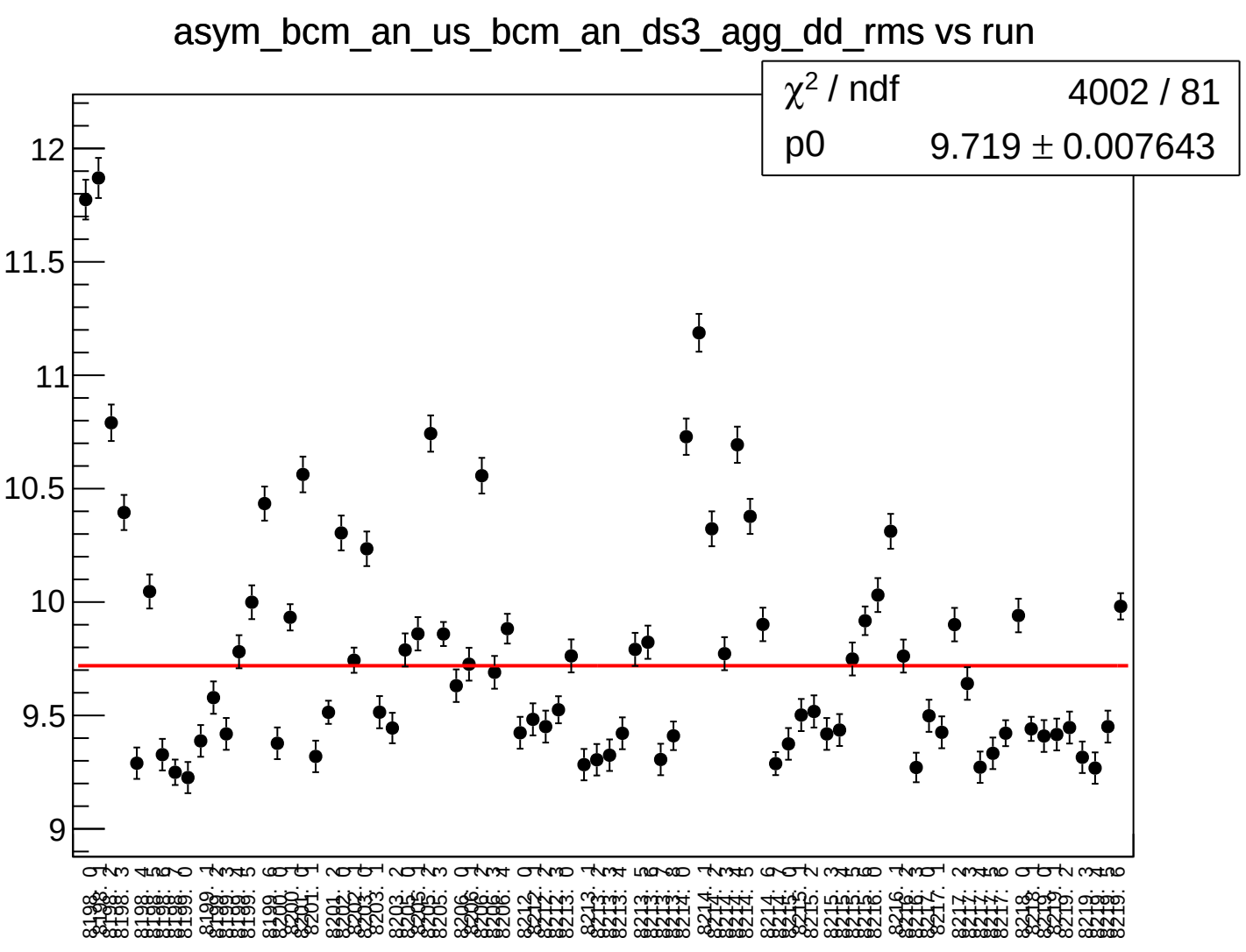

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 28.14 / 81
p0 −225.1± 204.6
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −465.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

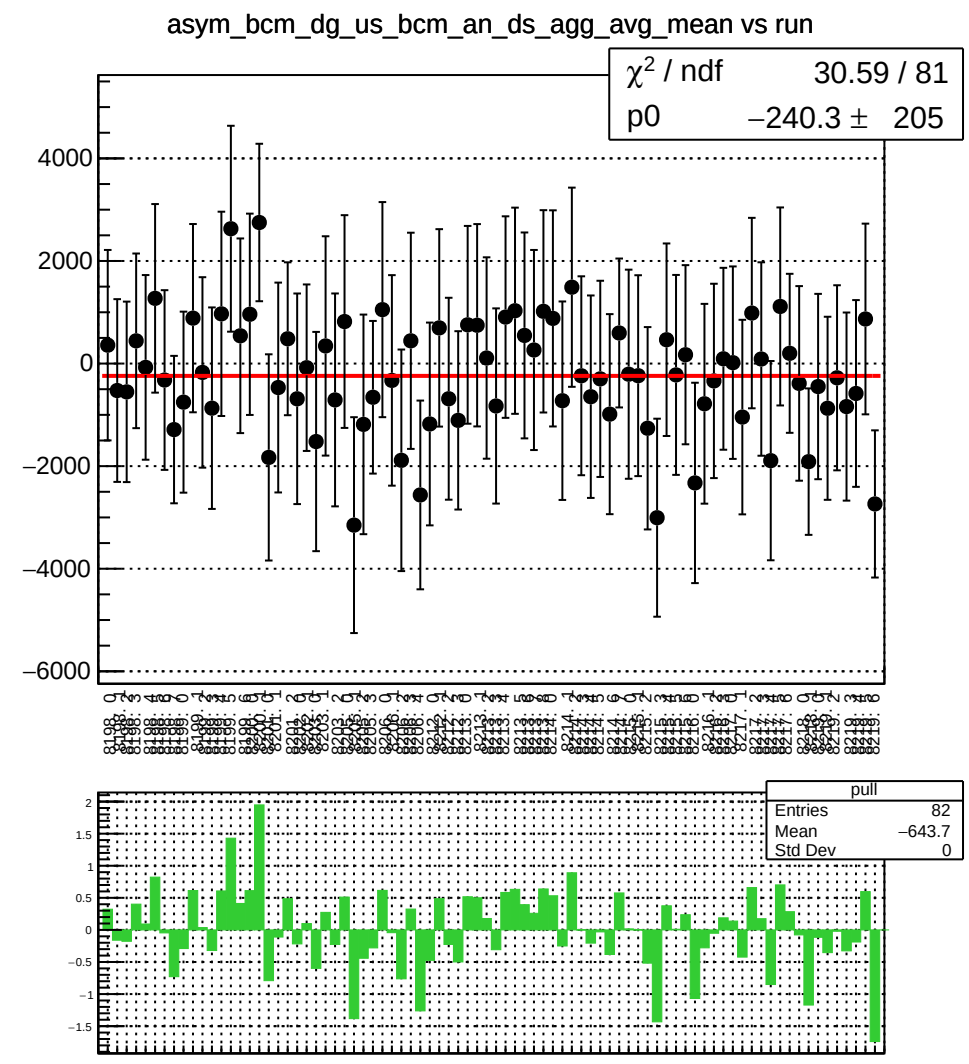

pull1D
Entries 82
Mean 0.005501
Std Dev 0.5858
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

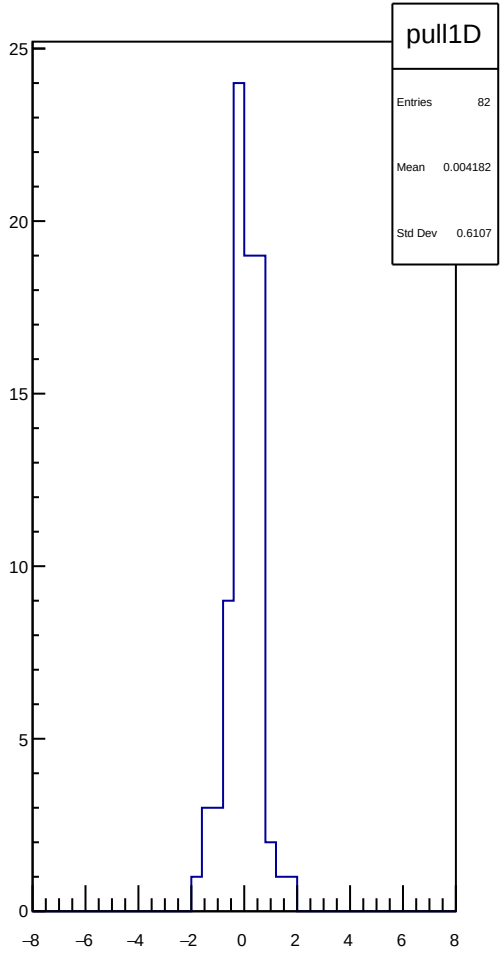

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4723 / 81
p0 184 ± 0.1447
210
200
190
180
170
160

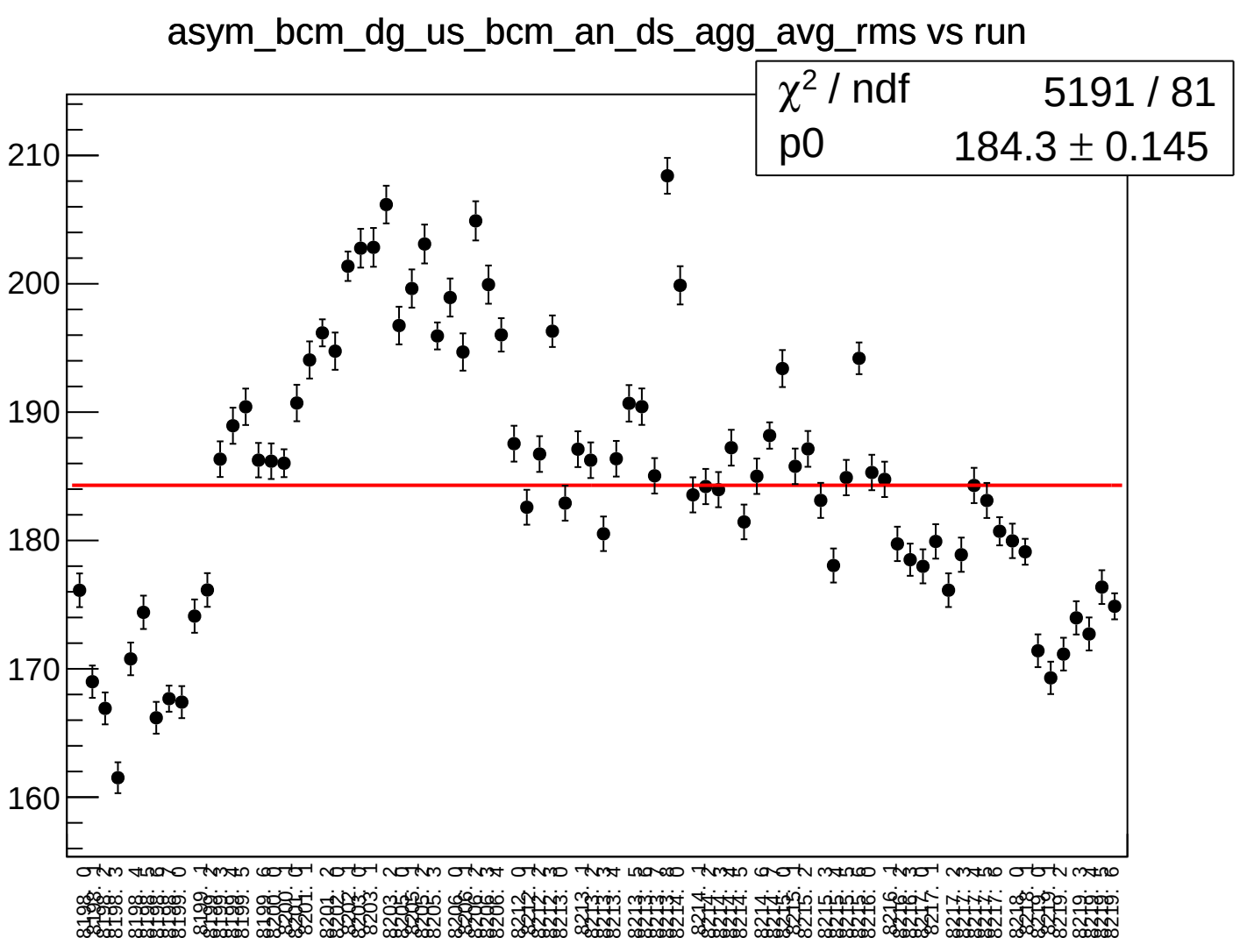

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 88.95 / 81
p0 3.339 ± 10.81
pull
Entries 82
Mean 242.9
Std Dev 0

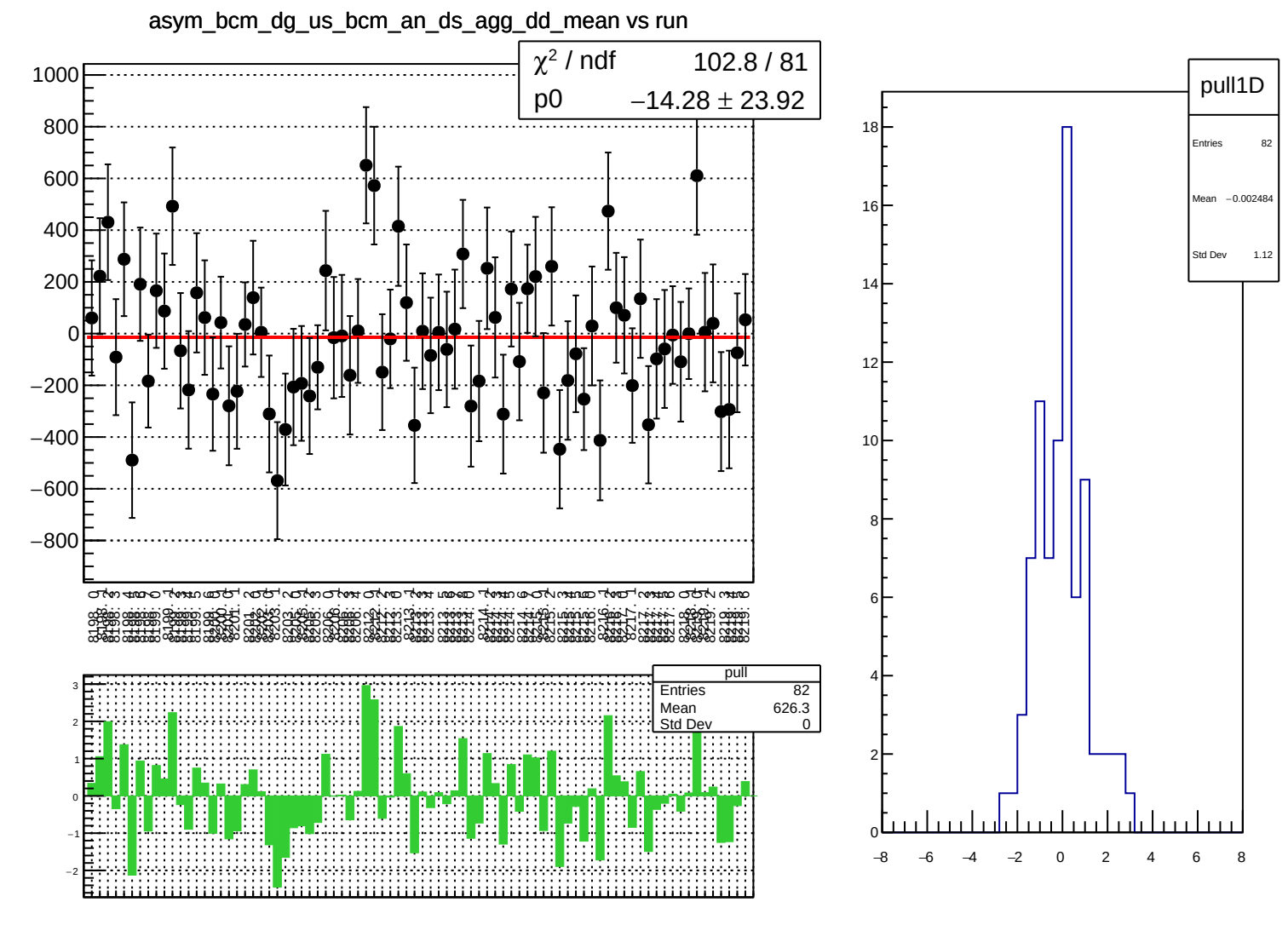

pull1D
Entries 82
Mean −0.009616
Std Dev 1.042

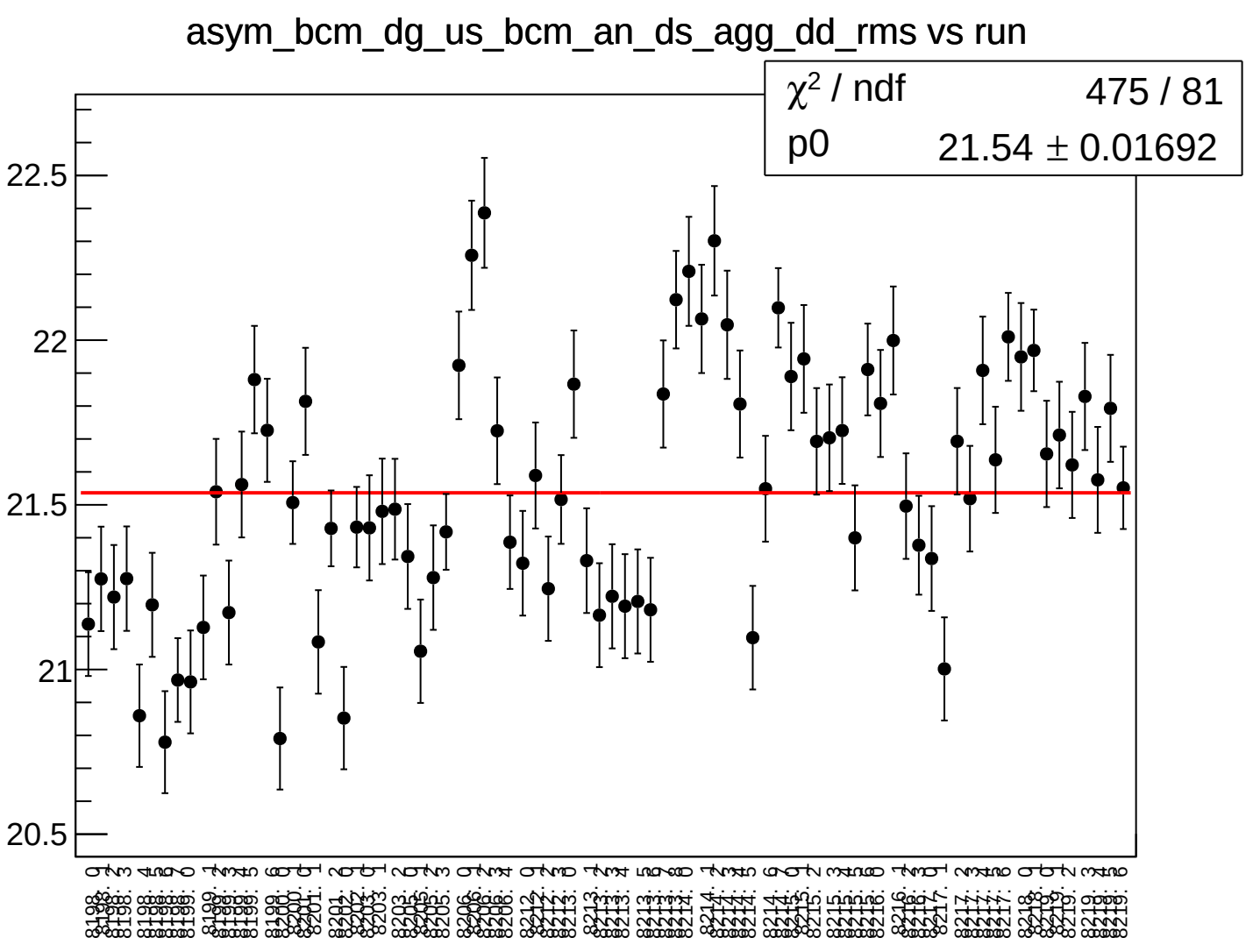

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 4002 / 81
p0 9.719 ± 0.007643
12
11.5
11
10.5
10
9.5
9

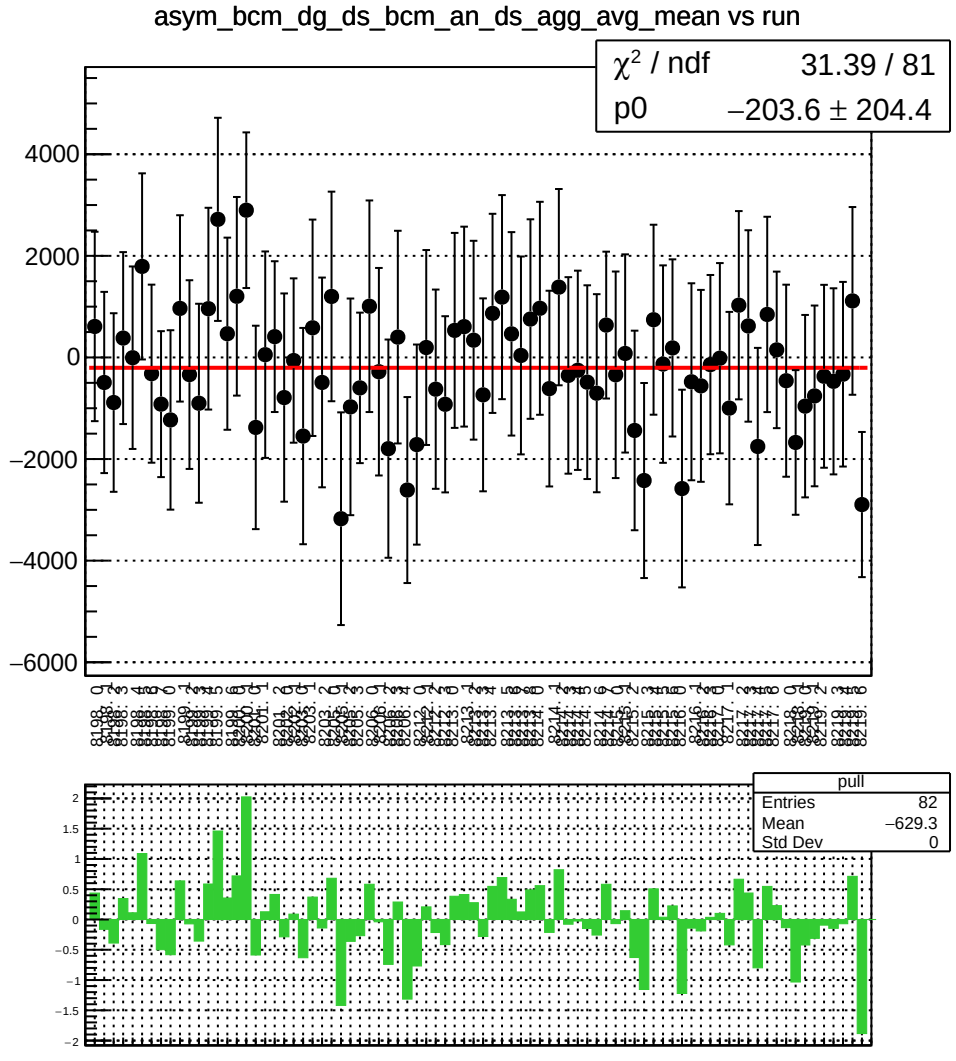

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 30.59 / 81
p0 −240.3 ± 205
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −643.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

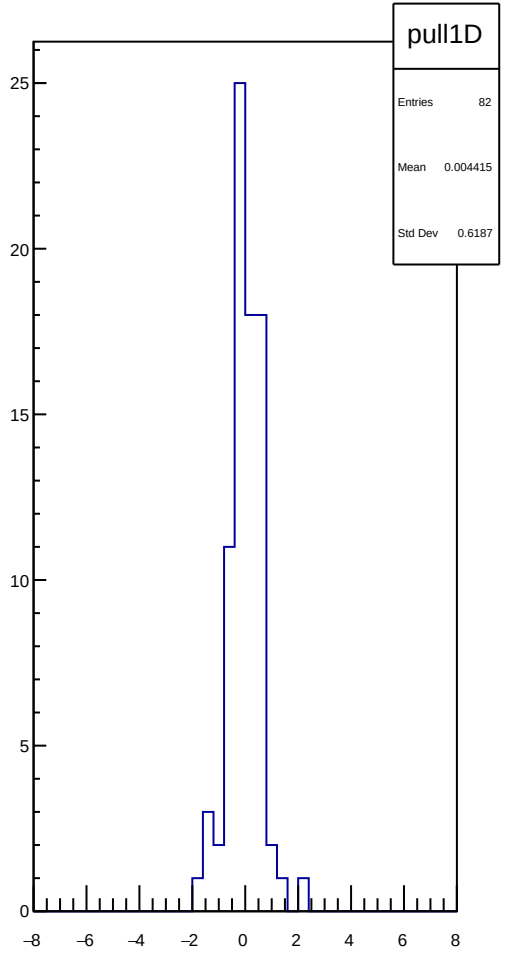

pull1D
Entries 82
Mean 0.004182
Std Dev 0.6107
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

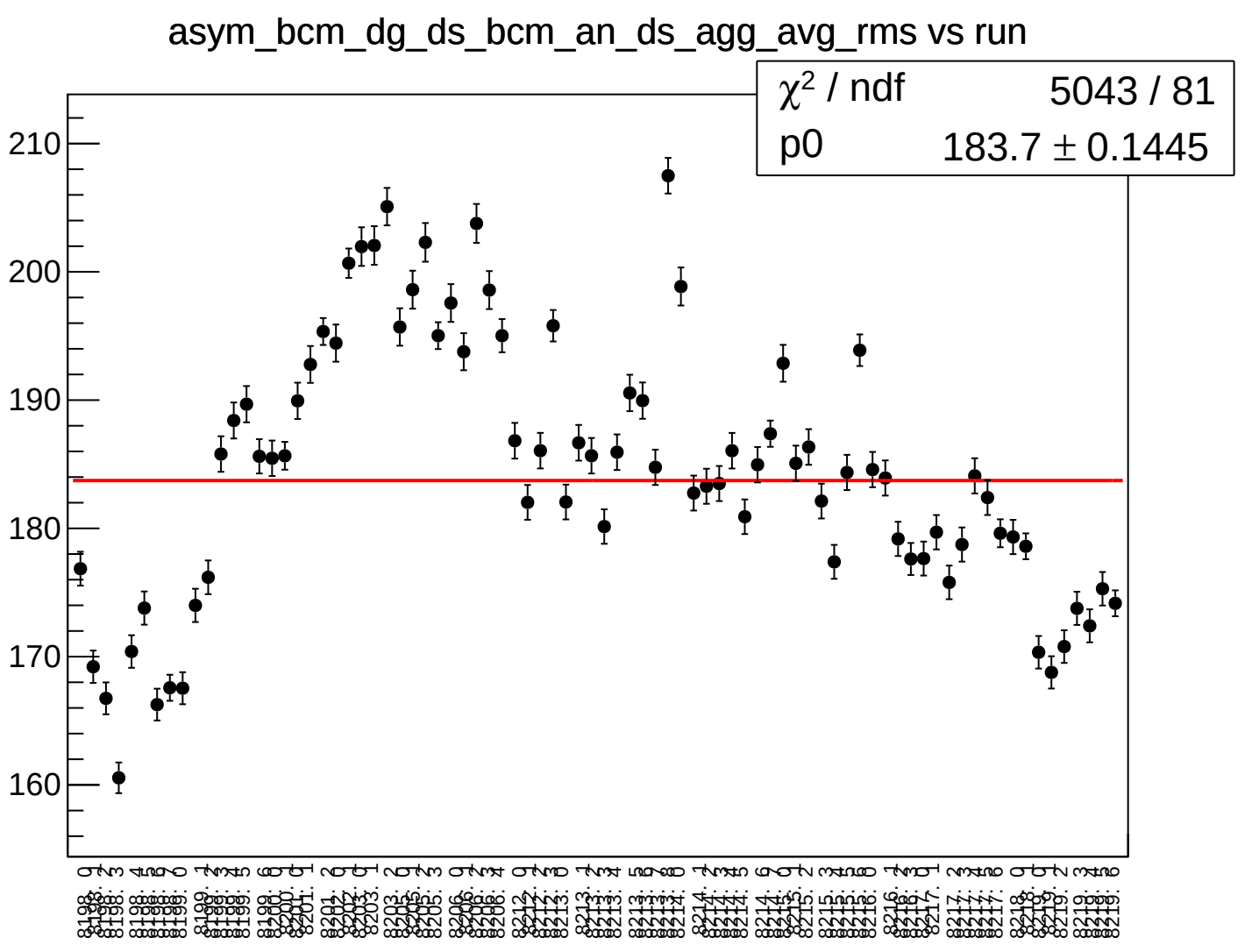

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5191 / 81
p0 184.3 ± 0.145
210
200
190
180
170
160

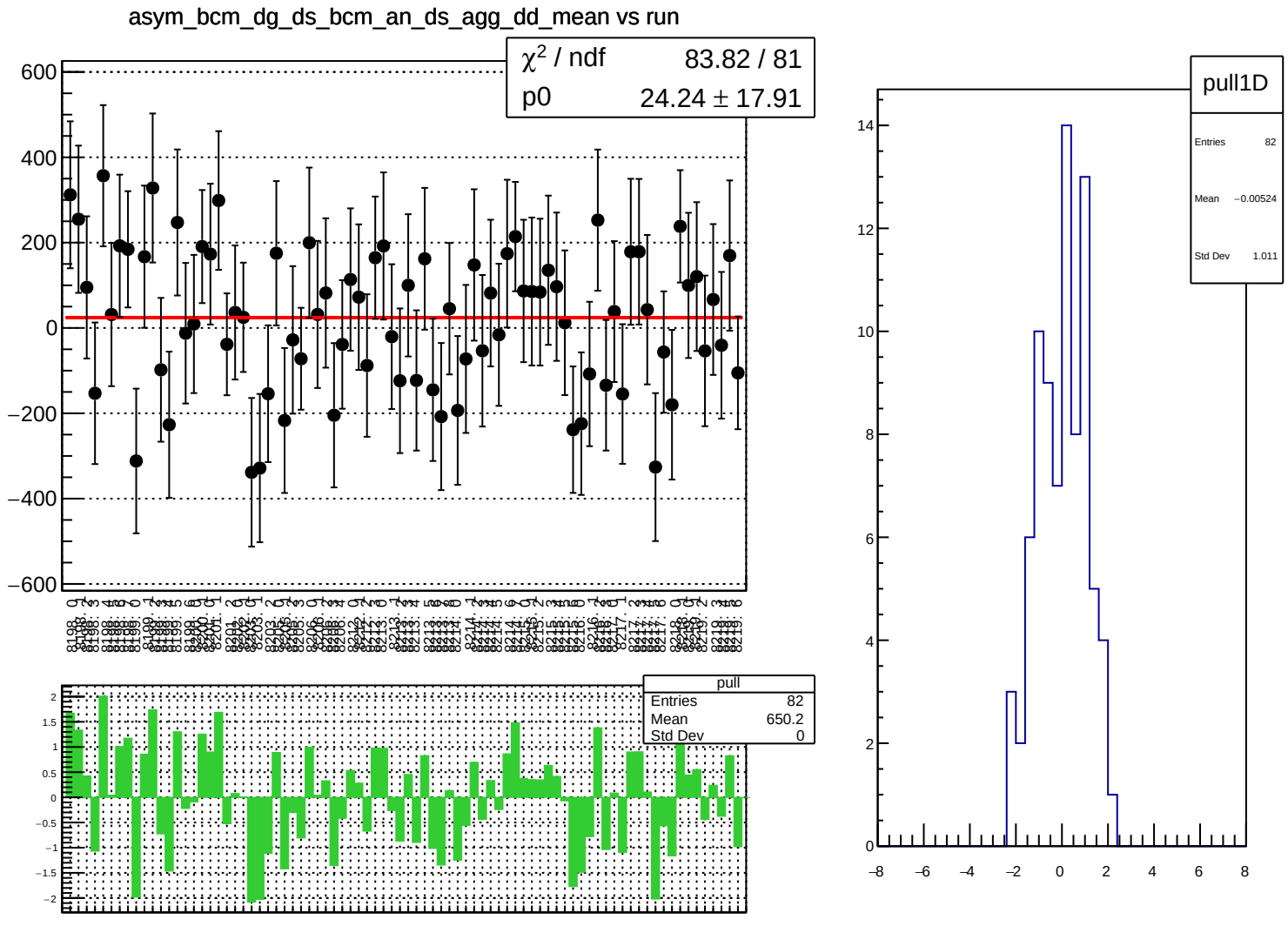

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 102.8 / 81
p0 −14.28 ± 23.92
pull
Entries 82
Mean 626.3
Std Dev 0
pull1D
Entries 82
Mean −0.002484
Std Dev 1.12

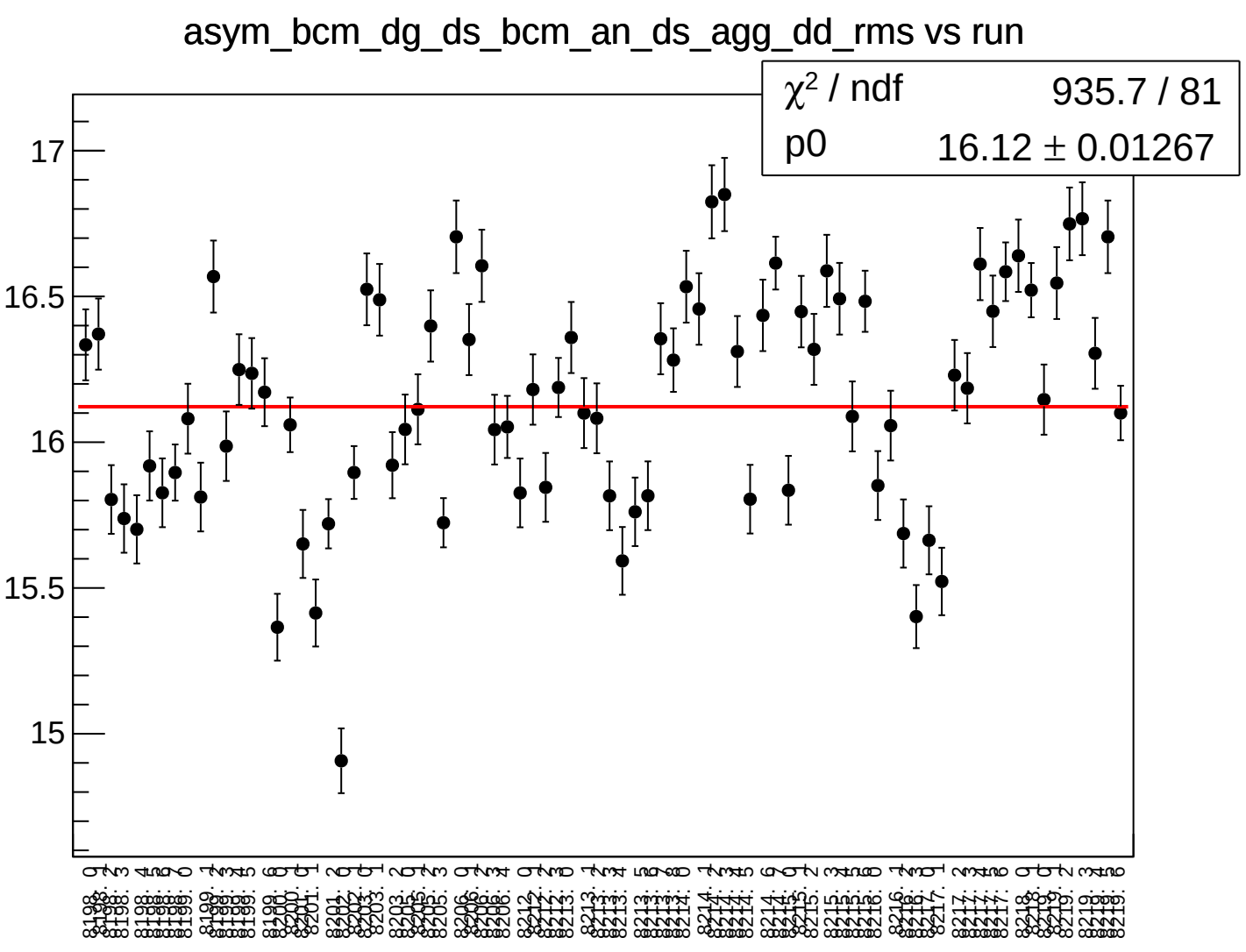

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 475 / 81
p0 21.54 ± 0.01692
22.5
22
21.5
21
20.5

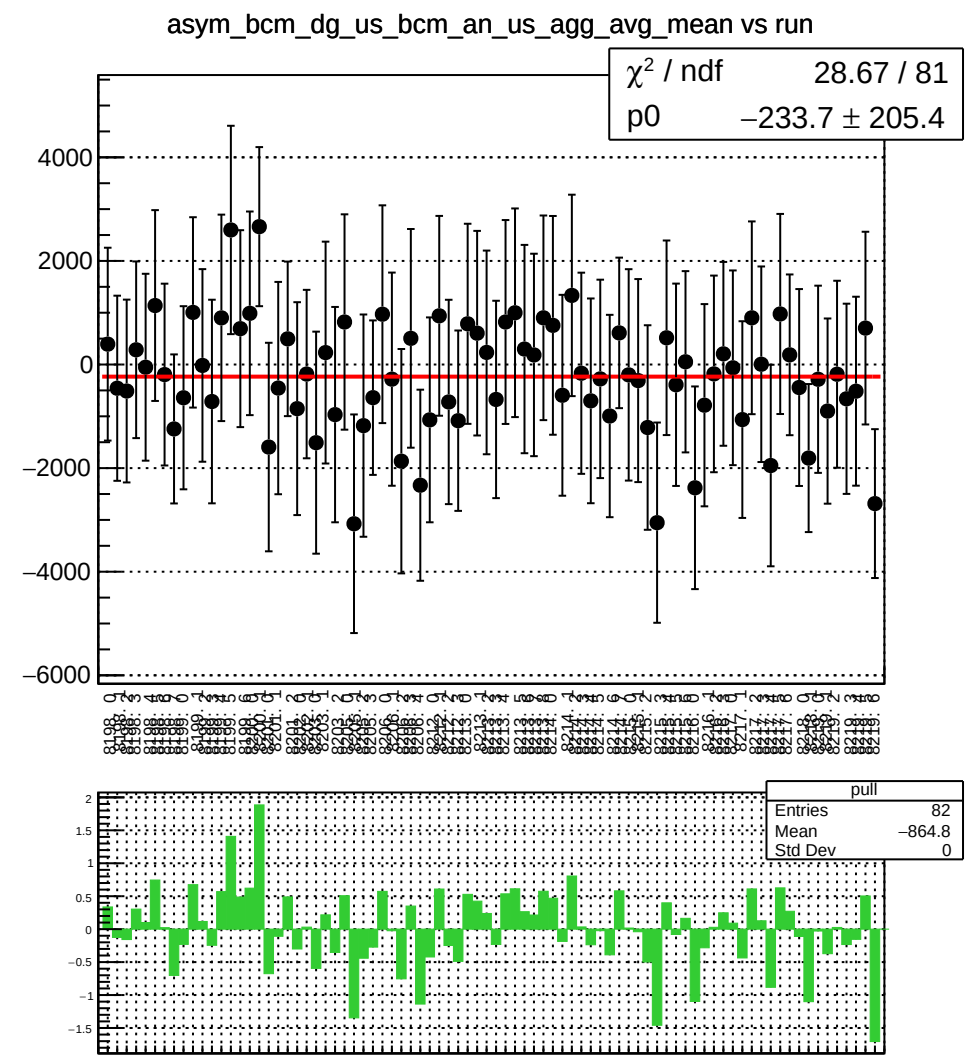

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 31.39 / 81
p0 −203.6 ± 204.4
pull
Entries 82
Mean −629.3
Std Dev 0

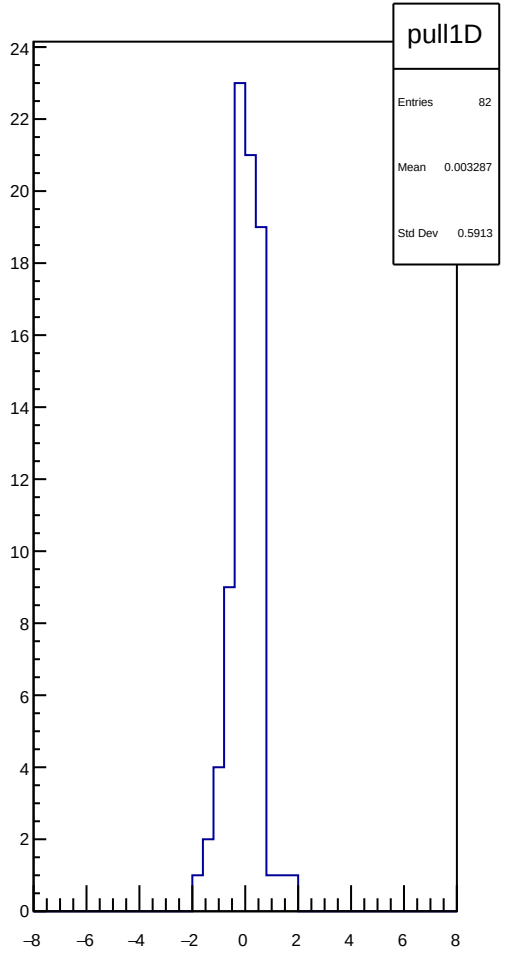

pull1D
Entries 82
Mean 0.004415
Std Dev 0.6187

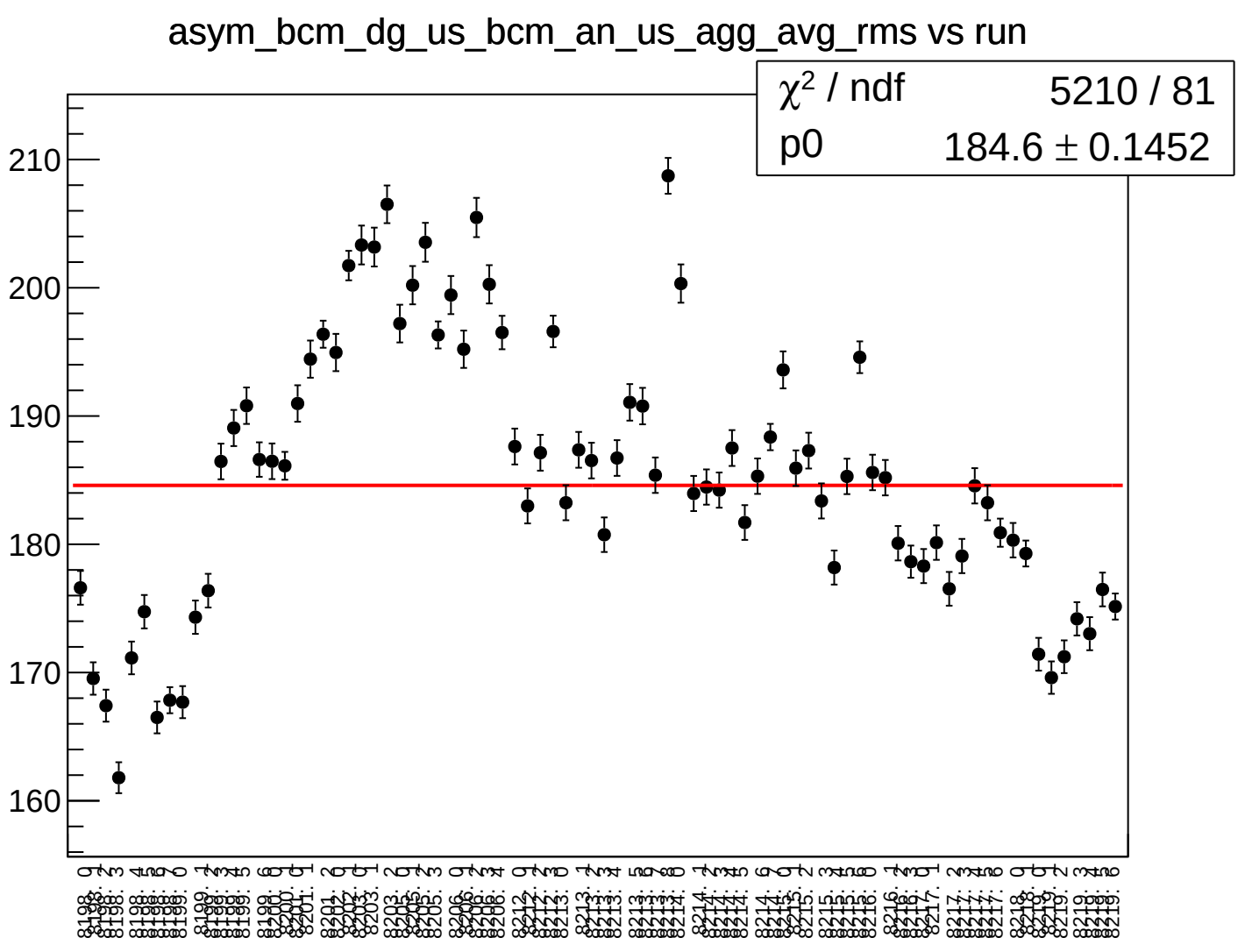

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5043 / 81
p0 183.7 ± 0.1445
210
200
190
180
170
160

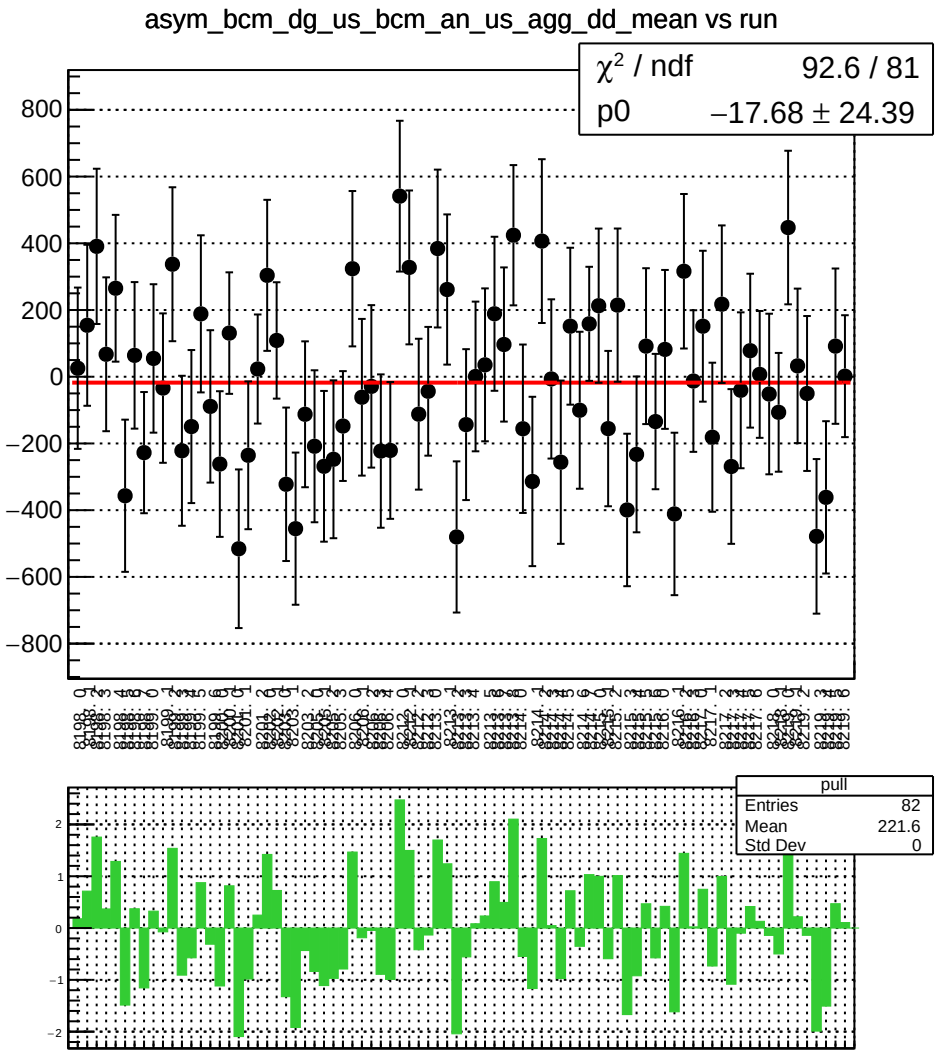

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 83.82 / 81
p0 24.24 ± 17.91
pull
Entries 82
Mean 650.2
Std Dev 0
pull1D
Entries 82
Mean −0.00524
Std Dev 1.011

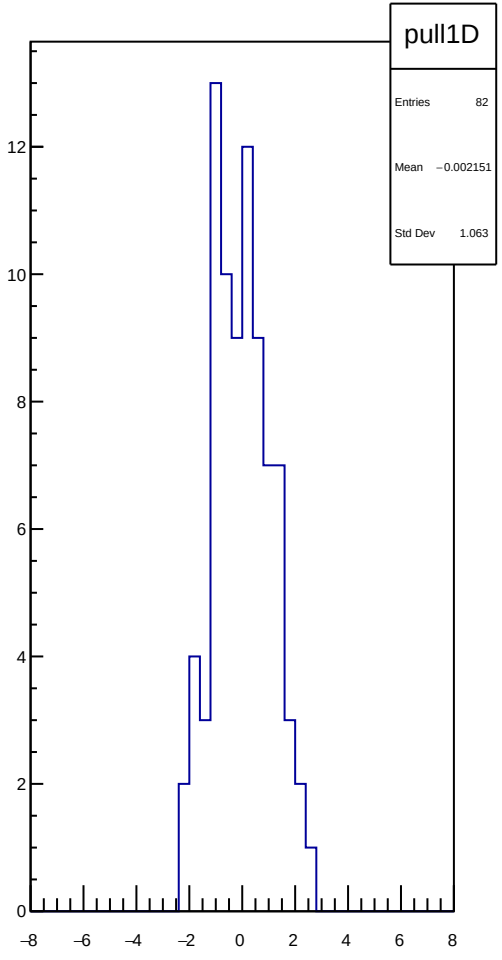

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
$\chi^2$ / ndf 935.7 / 81
p0 16.12 ± 0.01267
17
16.5
16
15.5
15

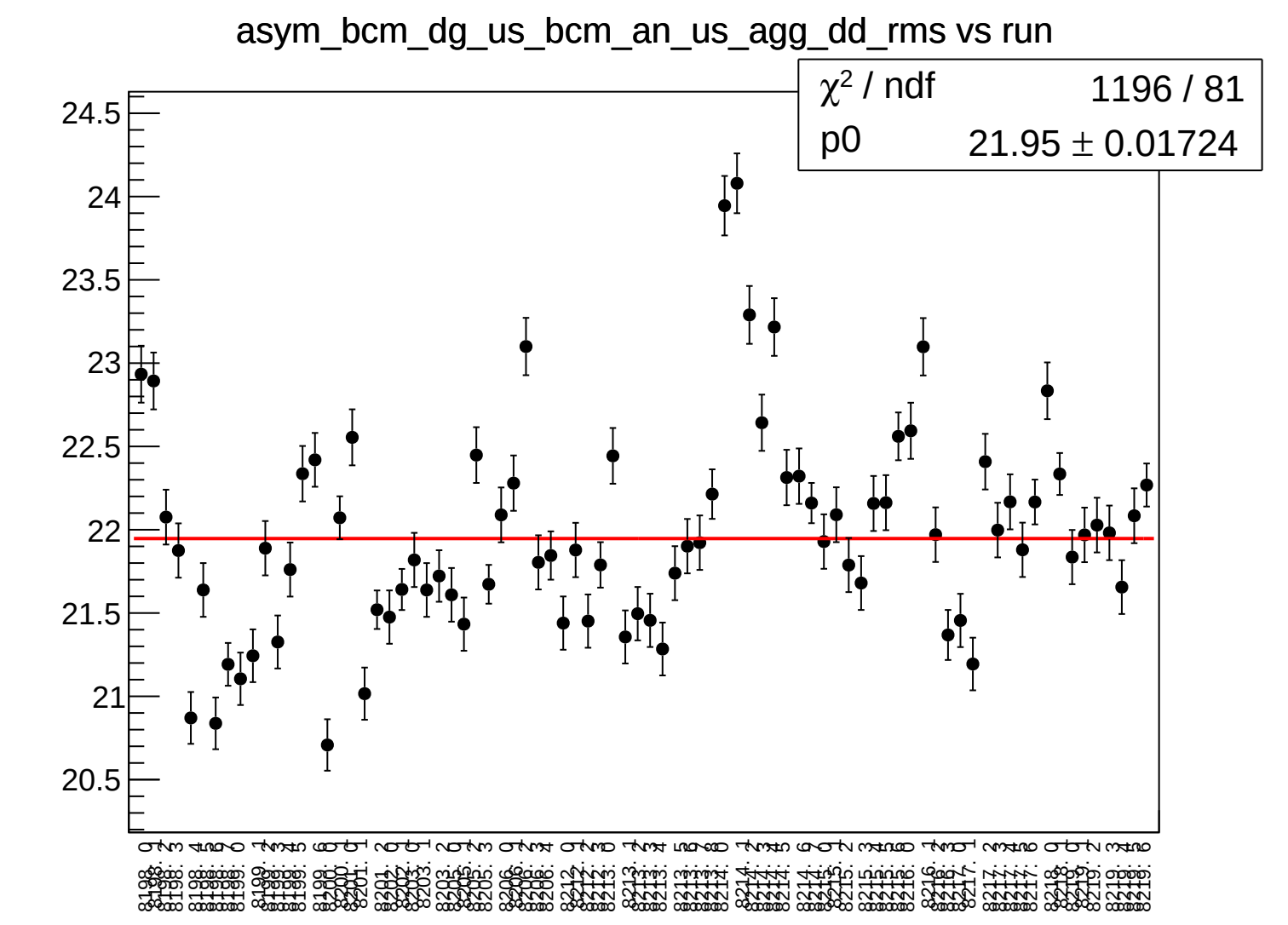

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 28.67 / 81
p0 −233.7 ± 205.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −864.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

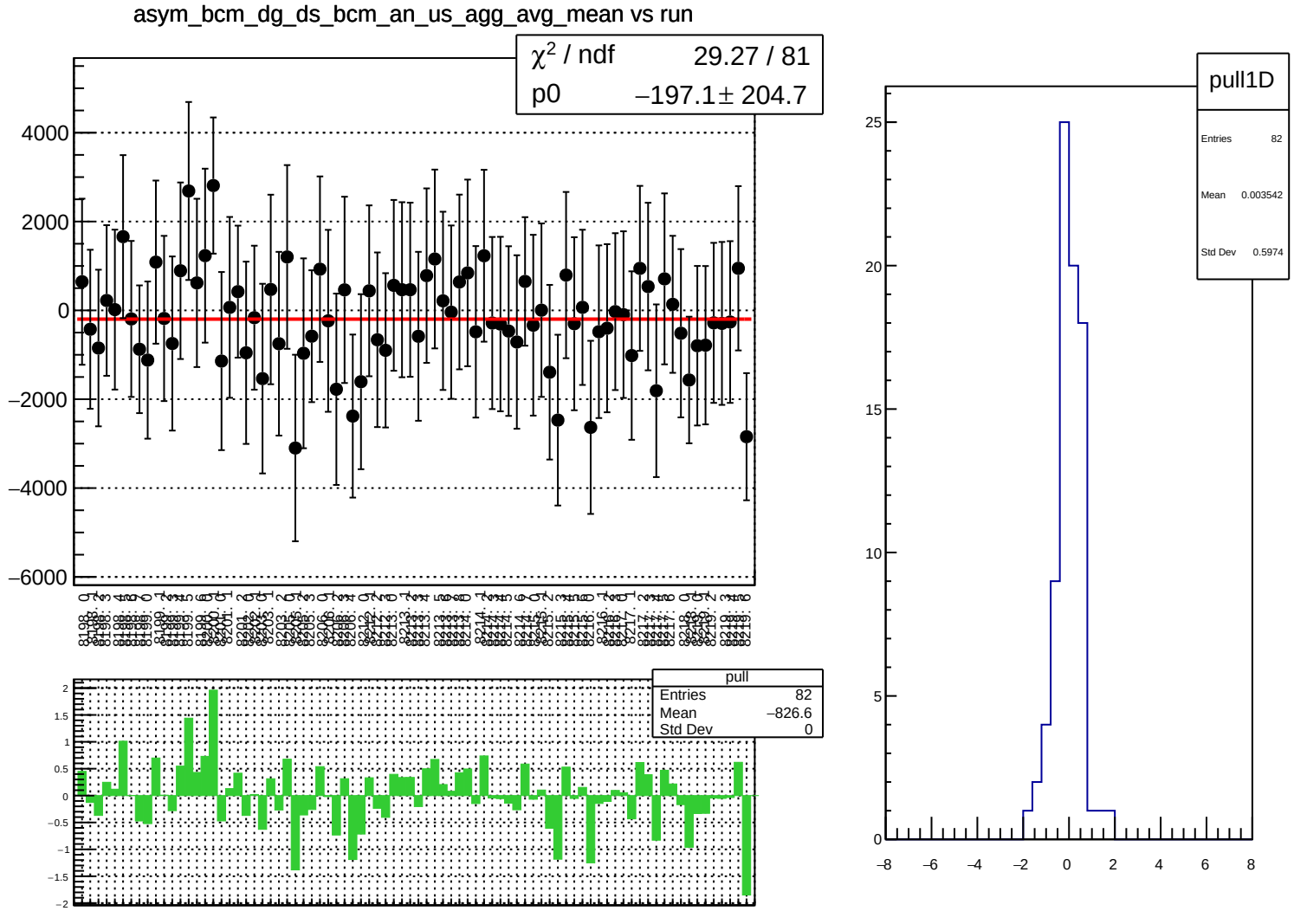

pull1D
Entries 82
Mean 0.003287
Std Dev 0.5913
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

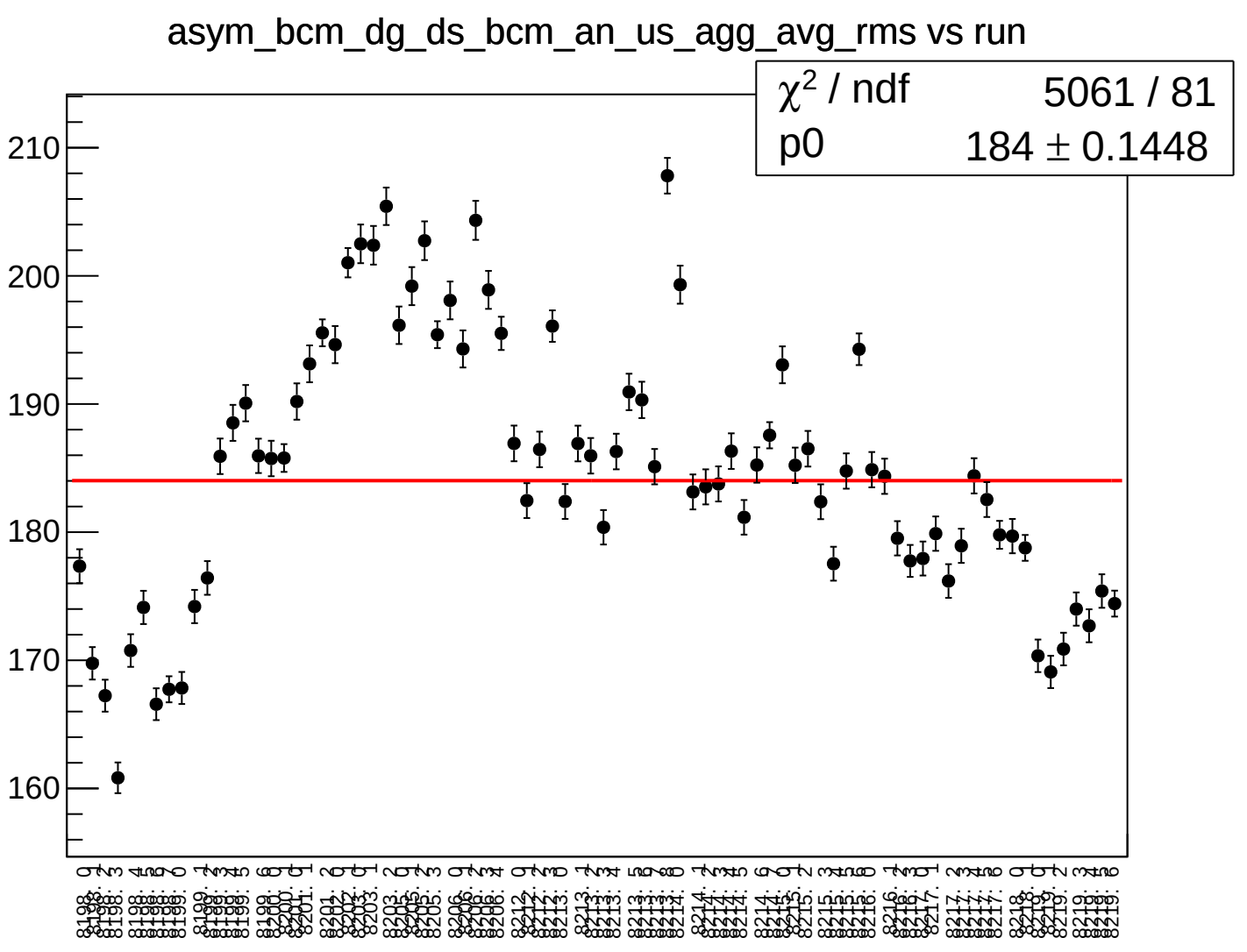

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5210 / 81
p0 184.6 ± 0.1452
210
200
190
180
170
160

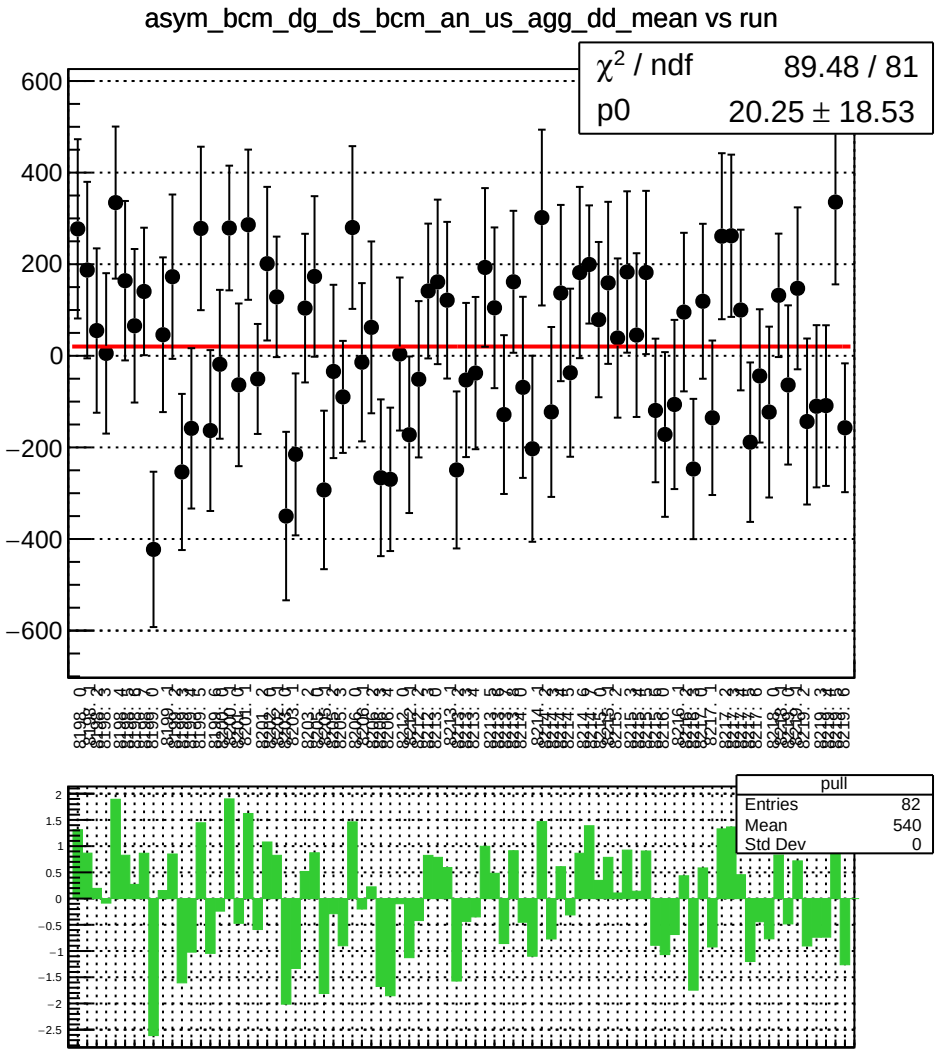

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 92.6 / 81
p0 −17.68 ± 24.39
pull
Entries 82
Mean 221.6
Std Dev 0

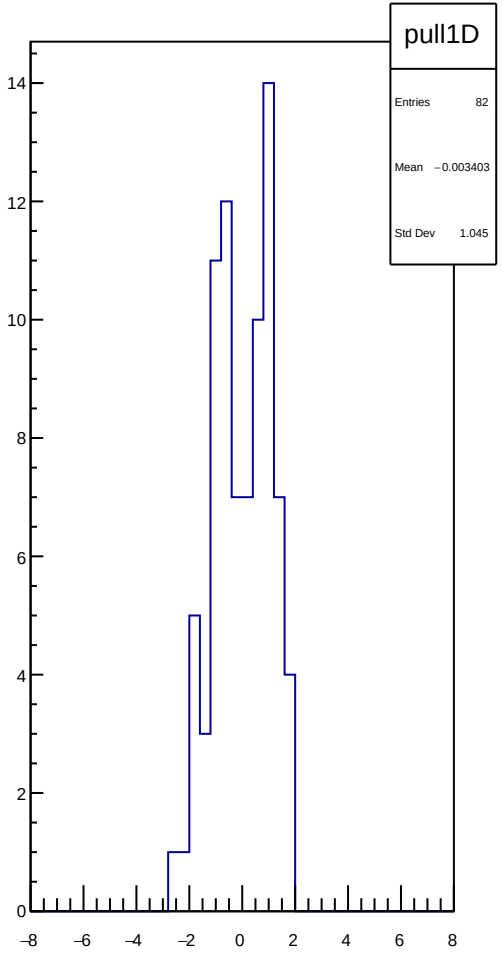

pull1D
Entries 82
Mean −0.002151
Std Dev 1.063

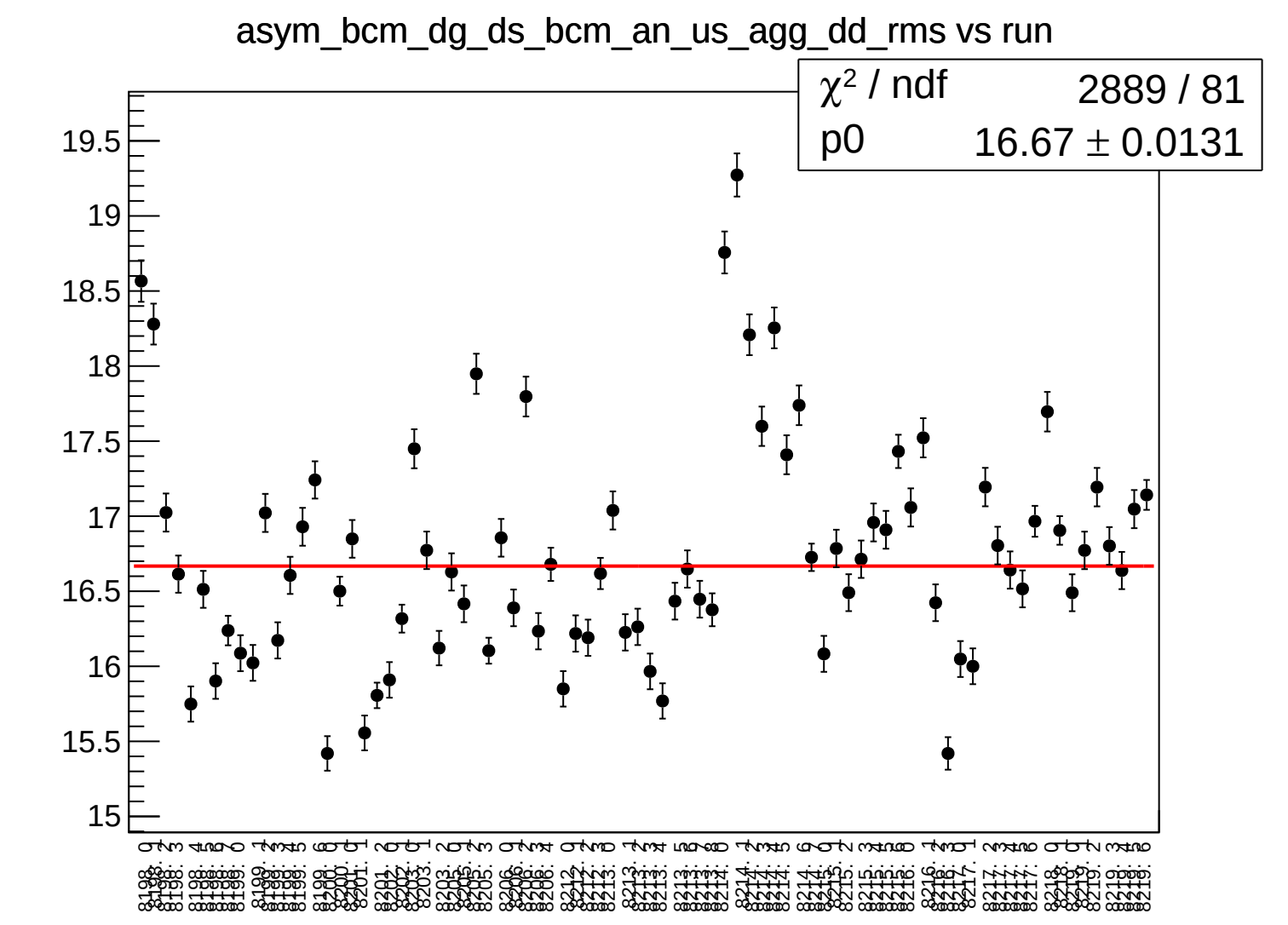

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1196 / 81
p0 21.95 ± 0.01724
24.5
24
23.5
23
22.5
22
21.5
21
20.5

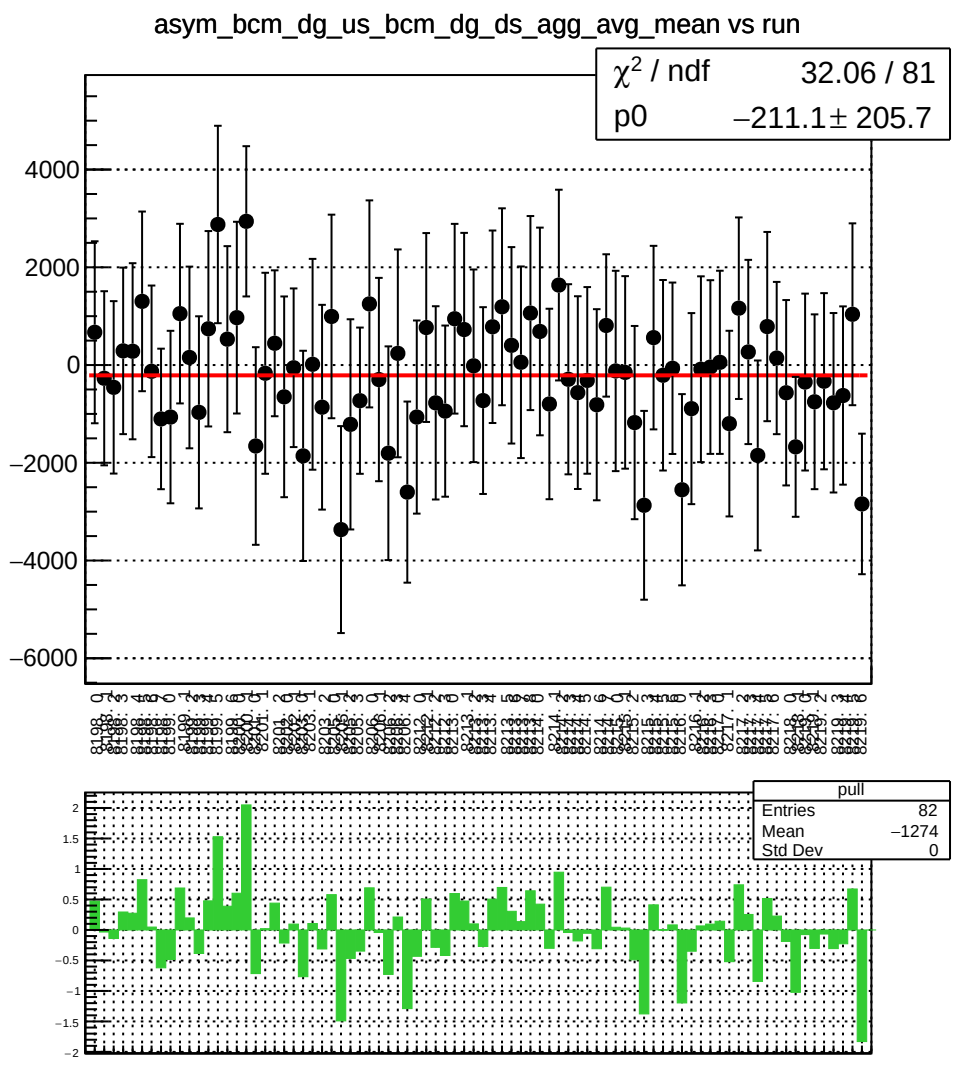

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 29.27 / 81
p0 −197.1± 204.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −826.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.003542
Std Dev 0.5974
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

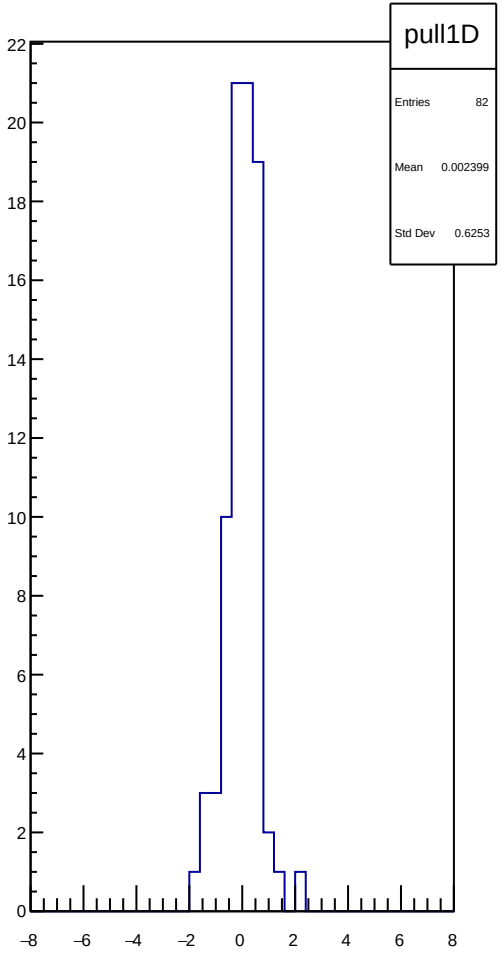

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5061 / 81
p0 184 ± 0.1448
210
200
190
180
170
160

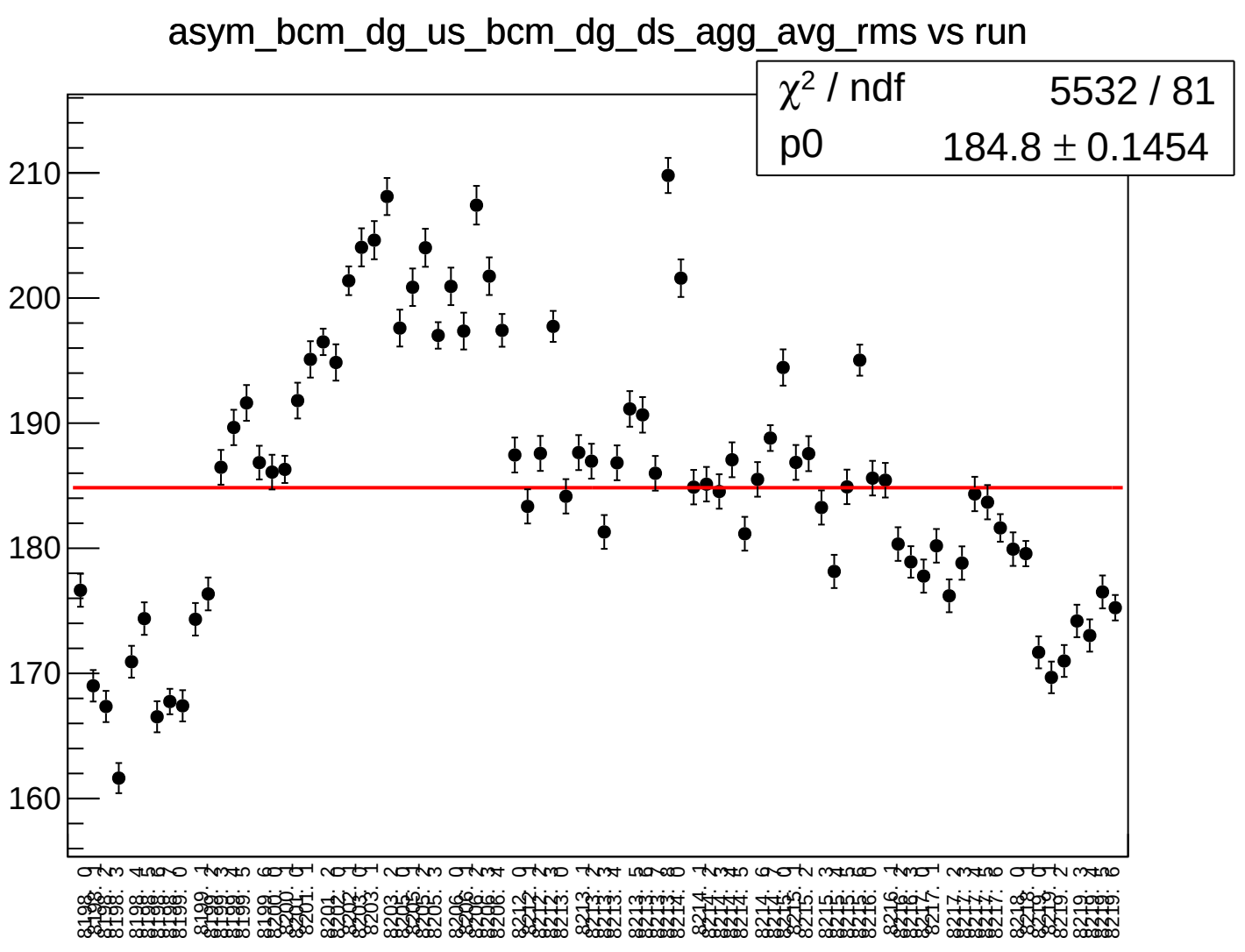

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 89.48 / 81
p0 20.25 ± 18.53
pull
Entries 82
Mean 540
Std Dev 0

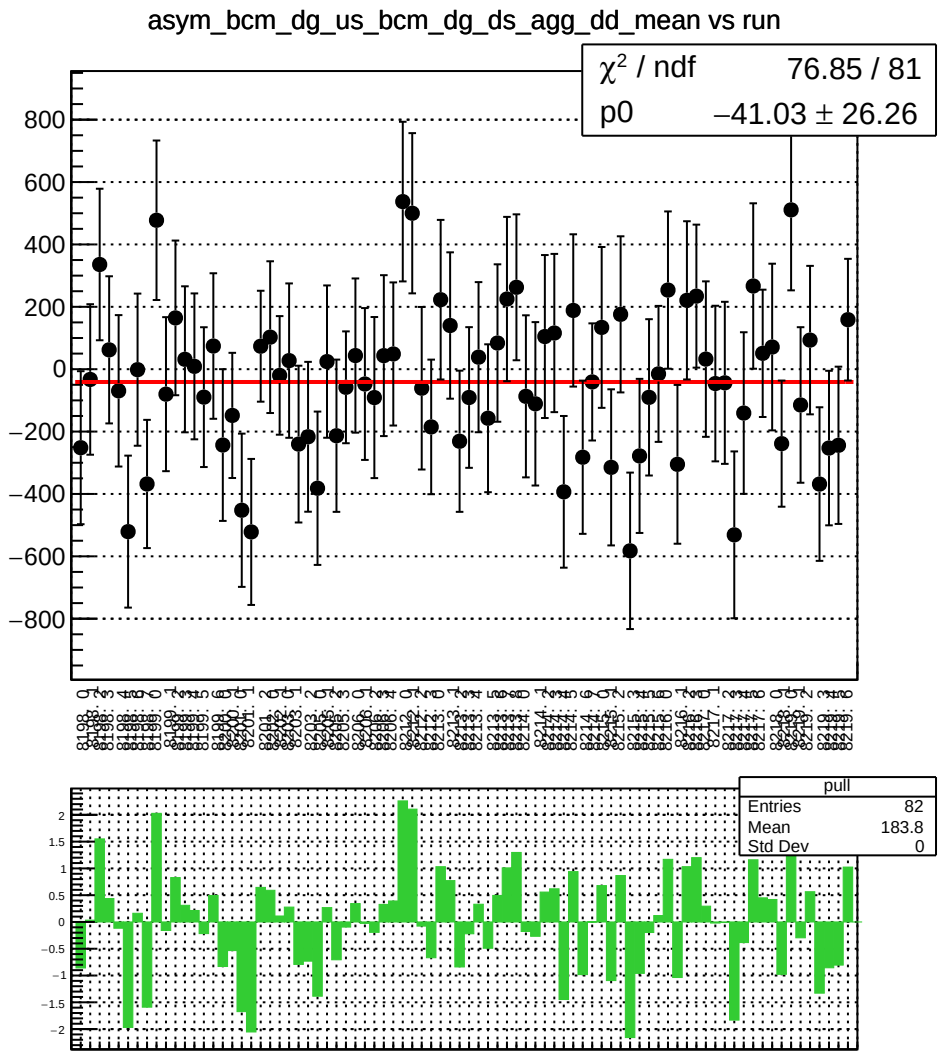

pull1D
Entries 82
Mean −0.003403
Std Dev 1.045

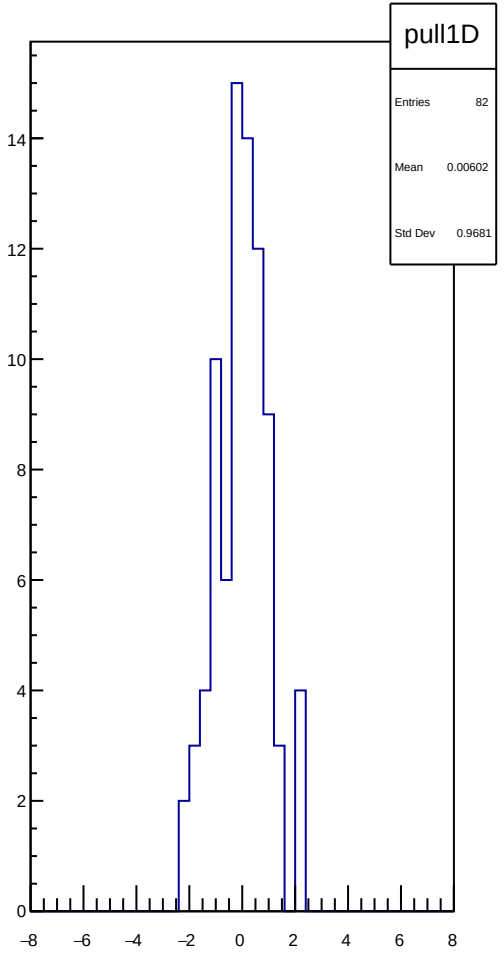

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2889 / 81
p0 16.67 ± 0.0131
19.5
19
18.5
18
17.5
17
16.5
16
15.5
15

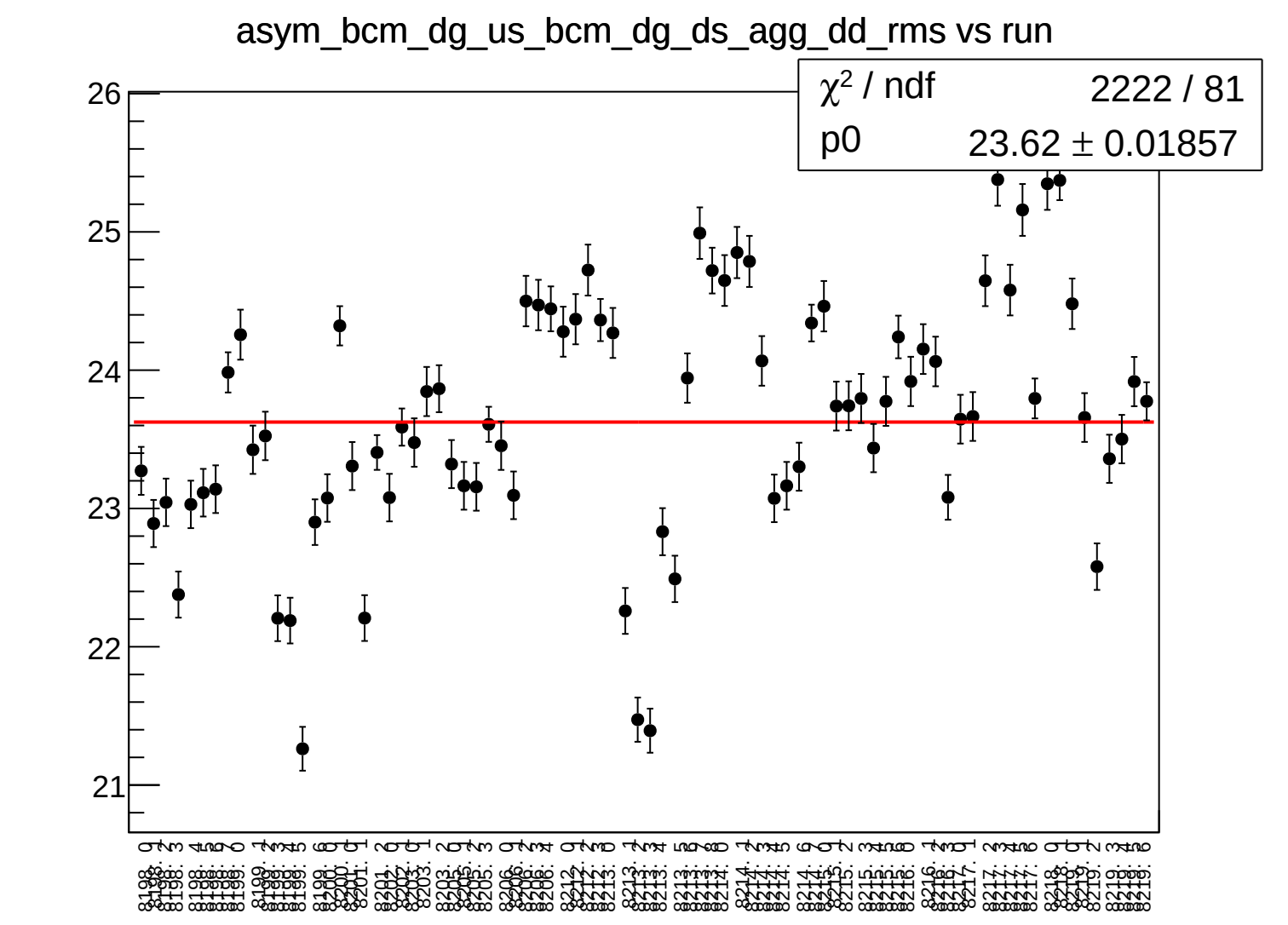

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 32.06 / 81
p0 −211.1± 205.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −1274
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

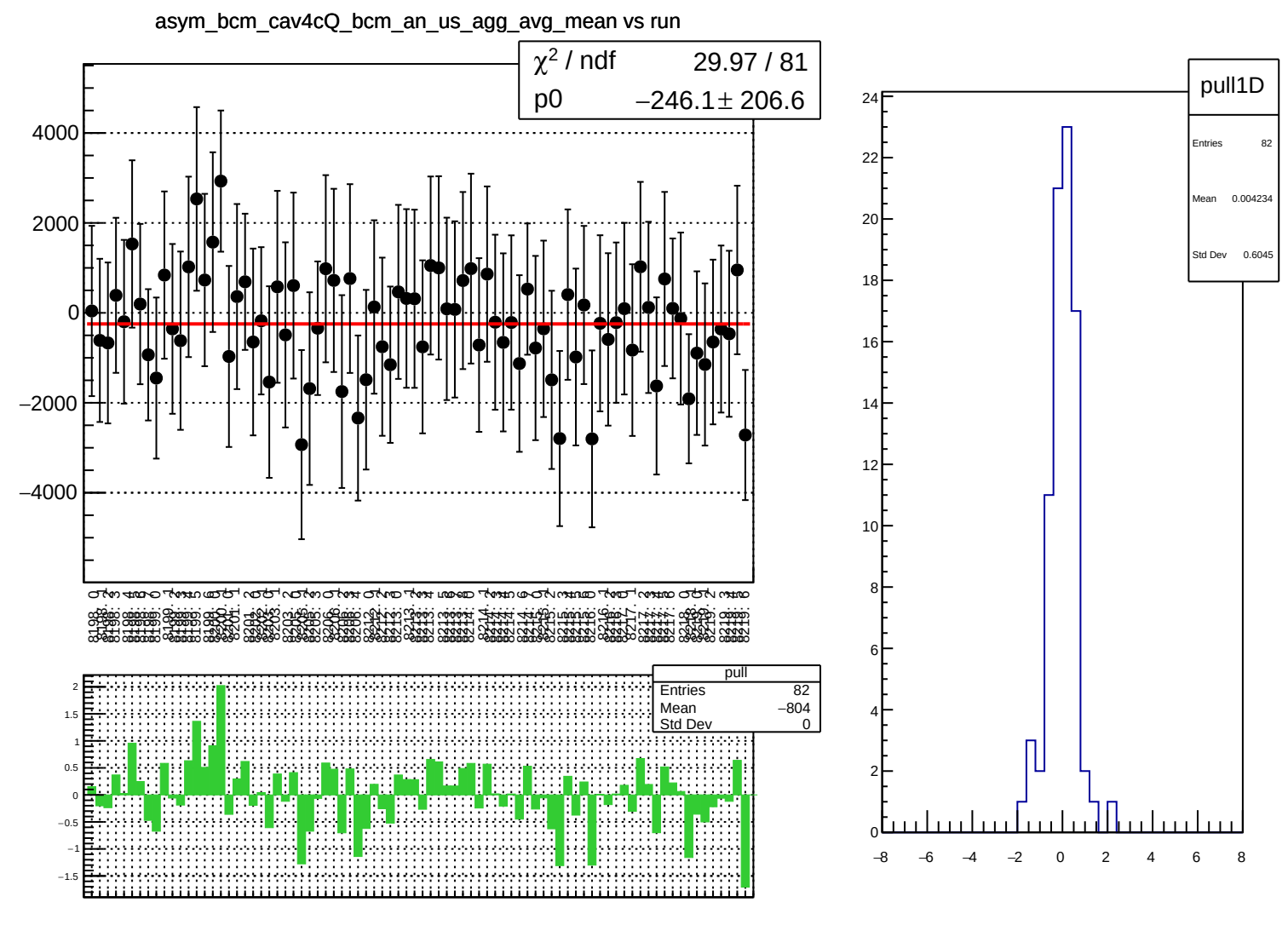

pull1D
Entries 82
Mean 0.002399
Std Dev 0.6253
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

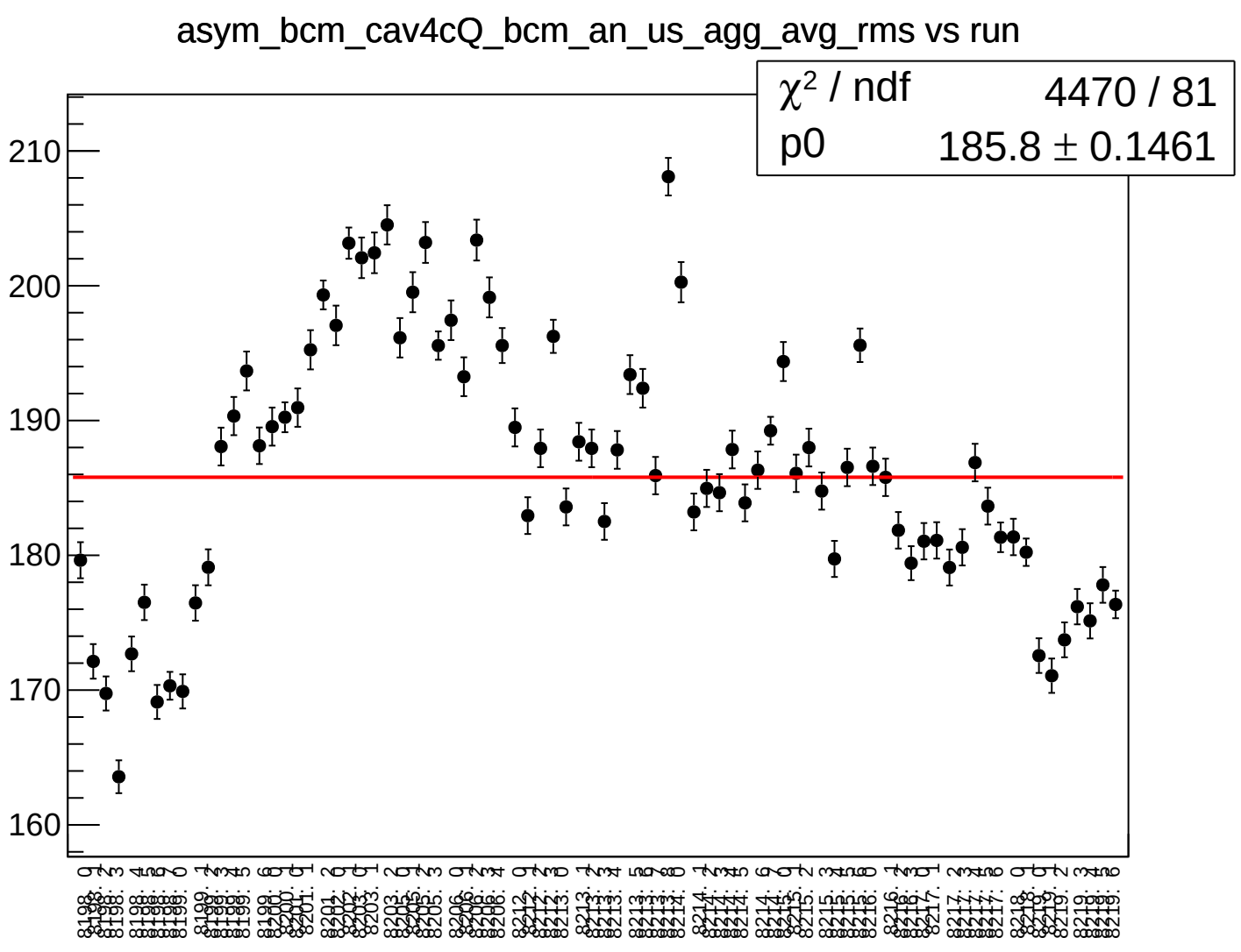

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 5532 / 81
p0 184.8 ± 0.1454
210
200
190
180
170
160

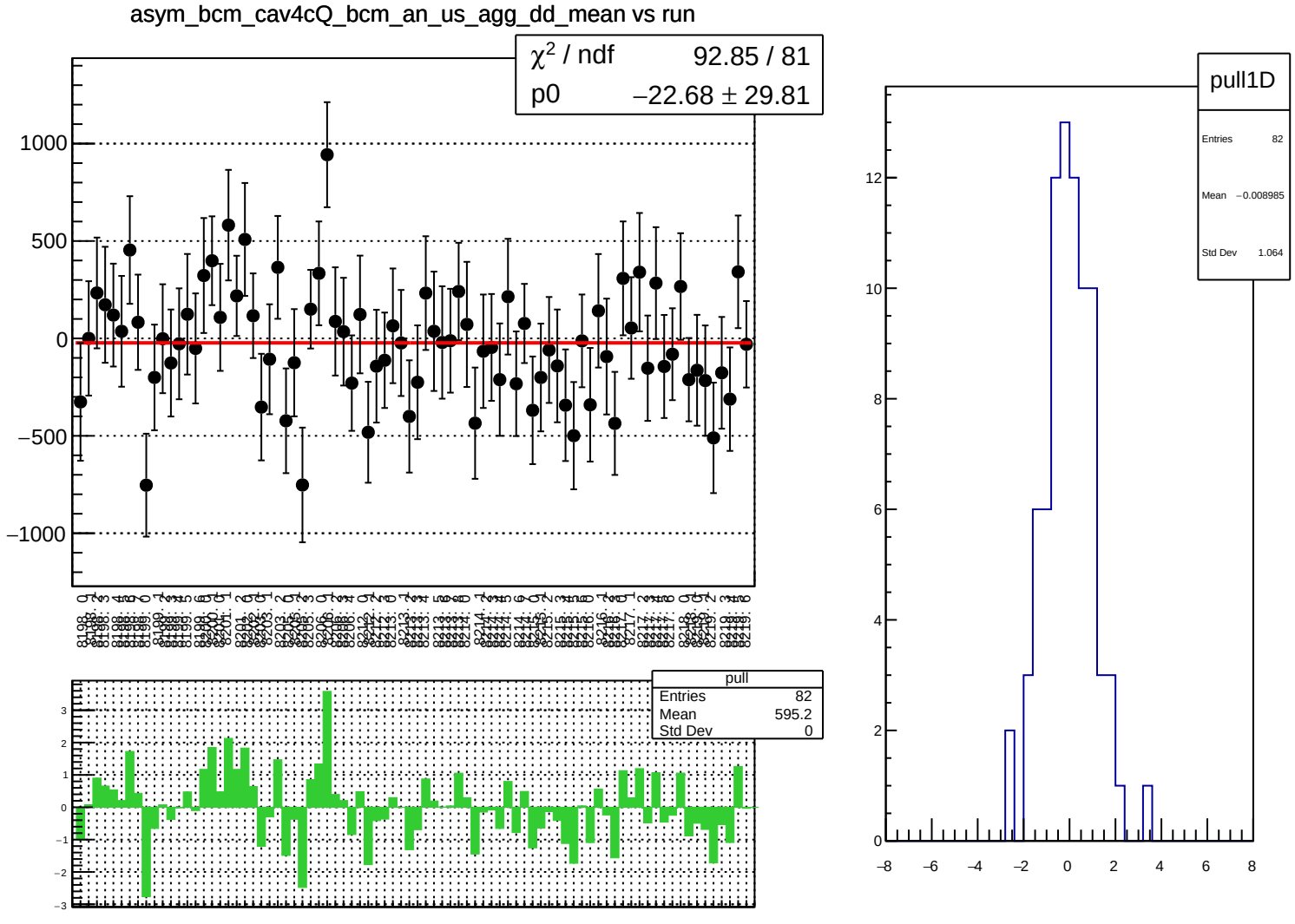

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.85 / 81
p0 −41.03 ± 26.26
pull
Entries 82
Mean 183.8
Std Dev 0

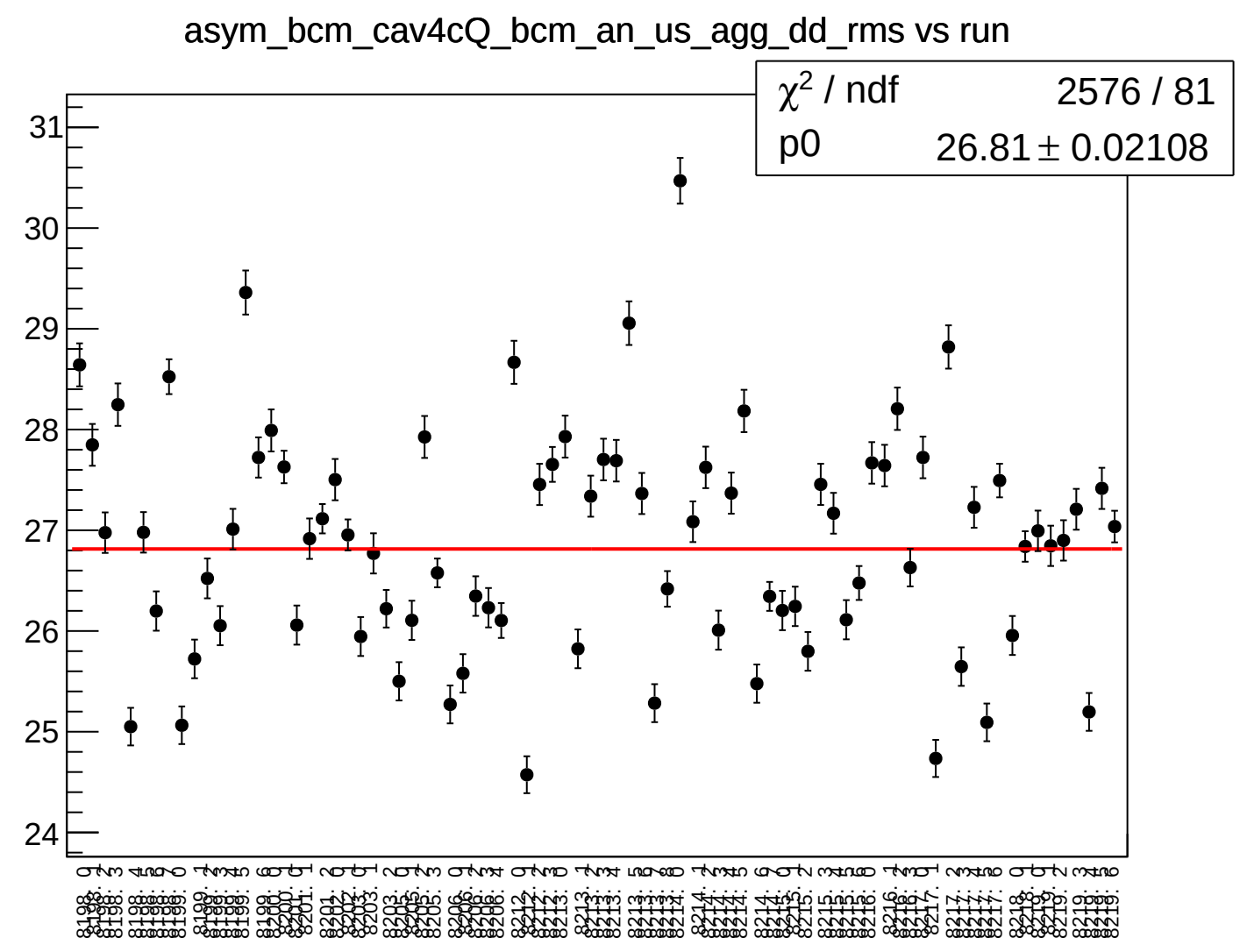

pull1D
Entries 82
Mean 0.00602
Std Dev 0.9681

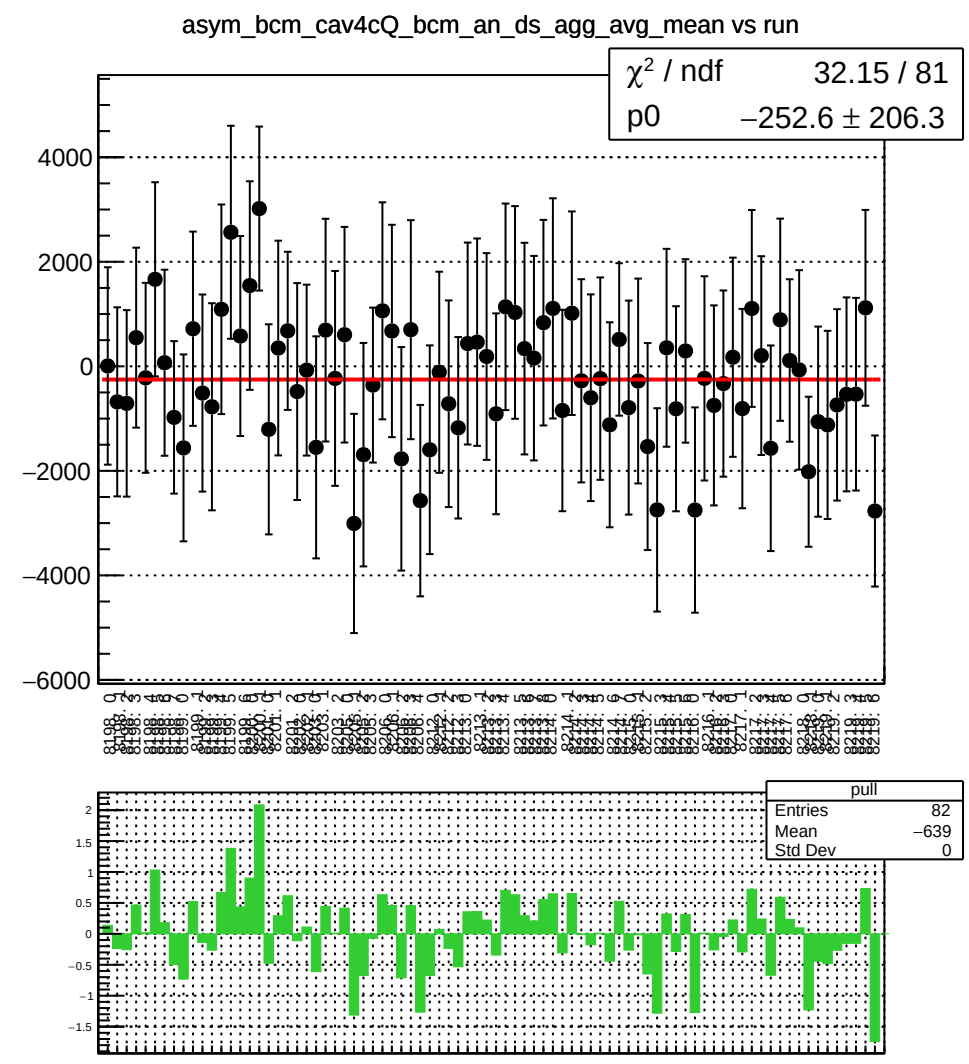

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2222 / 81
p0 23.62 ± 0.01857
26
25
24
23
22
21

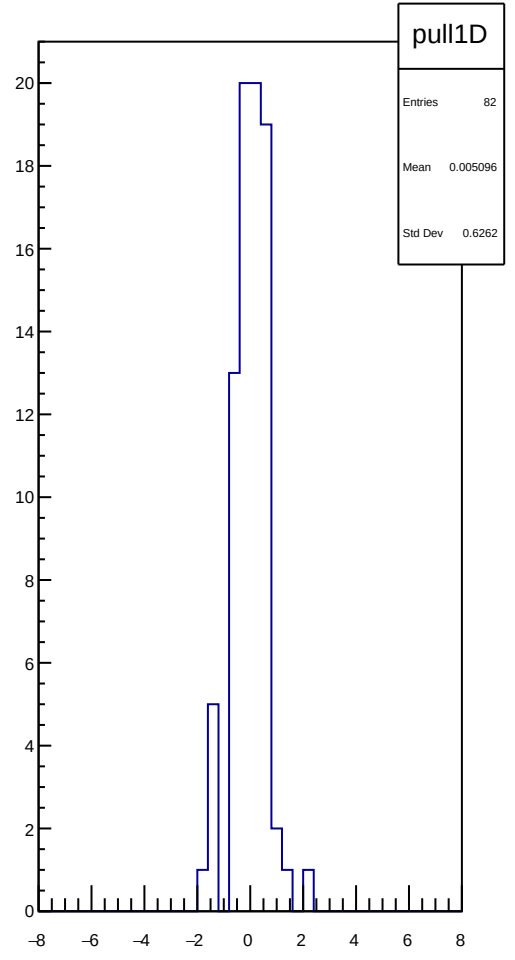

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 29.97 / 81
p0 −246.1± 206.6
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −804
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean 0.004234
Std Dev 0.6045
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

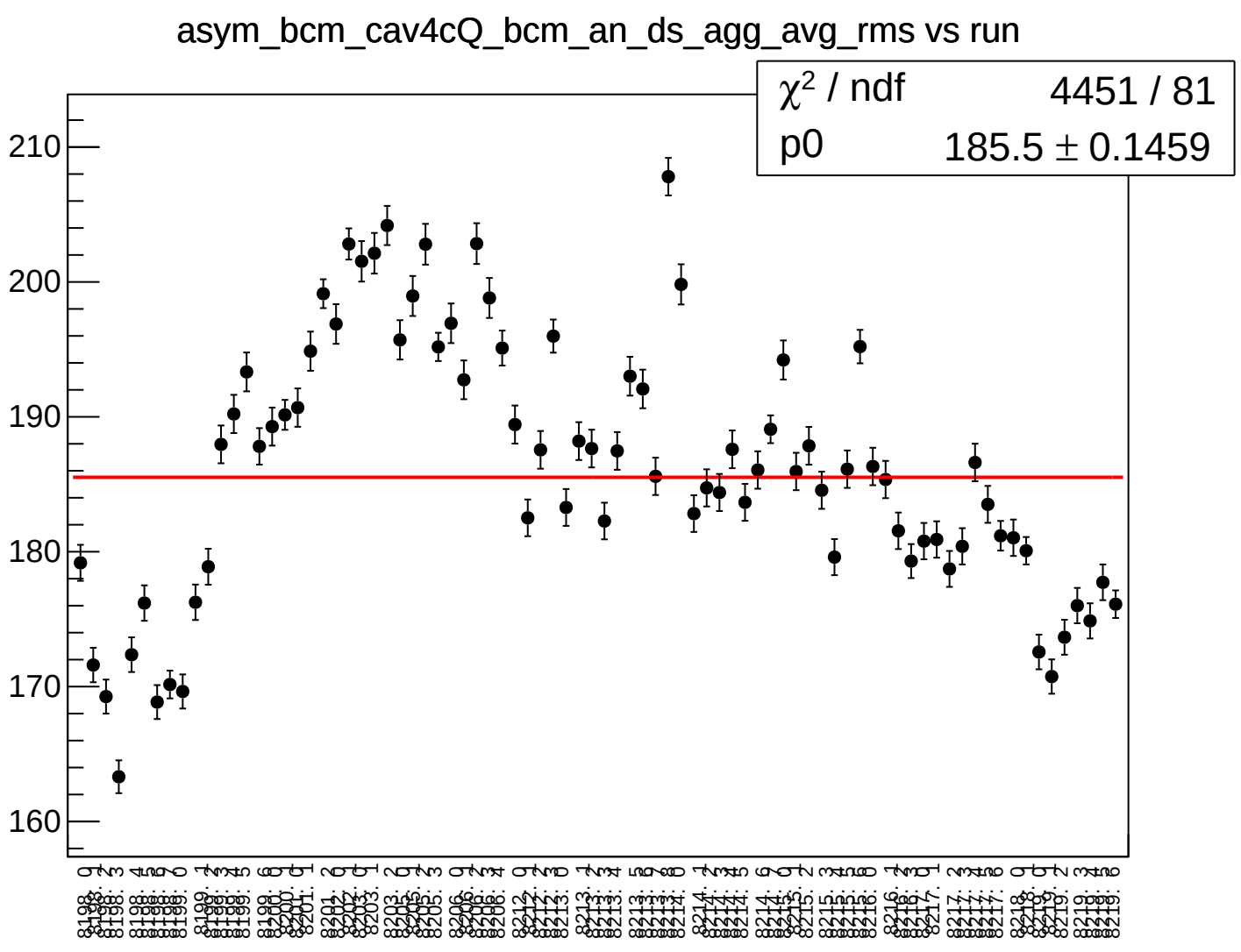

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4470 / 81
p0 185.8 ± 0.1461
210
200
190
180
170
160

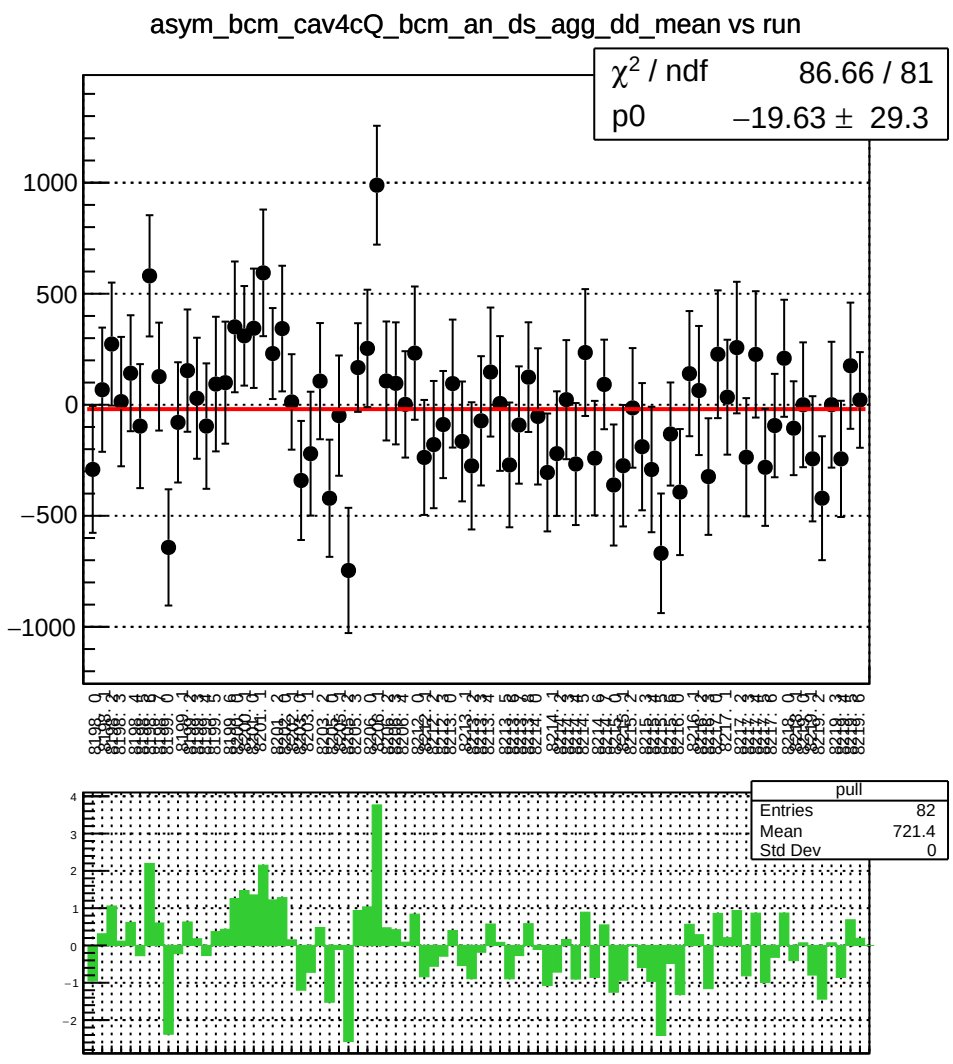

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 92.85 / 81
p0 −22.68 ± 29.81
1000
500
0
−500
−1000
pull
Entries 82
Mean 595.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.008985
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

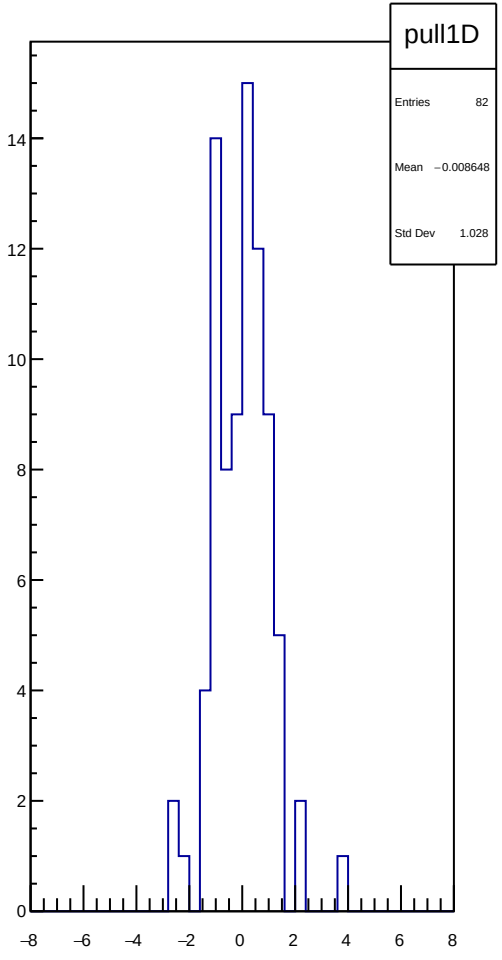

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2576 / 81
p0 26.81 ± 0.02108
31
30
29
28
27
26
25
24

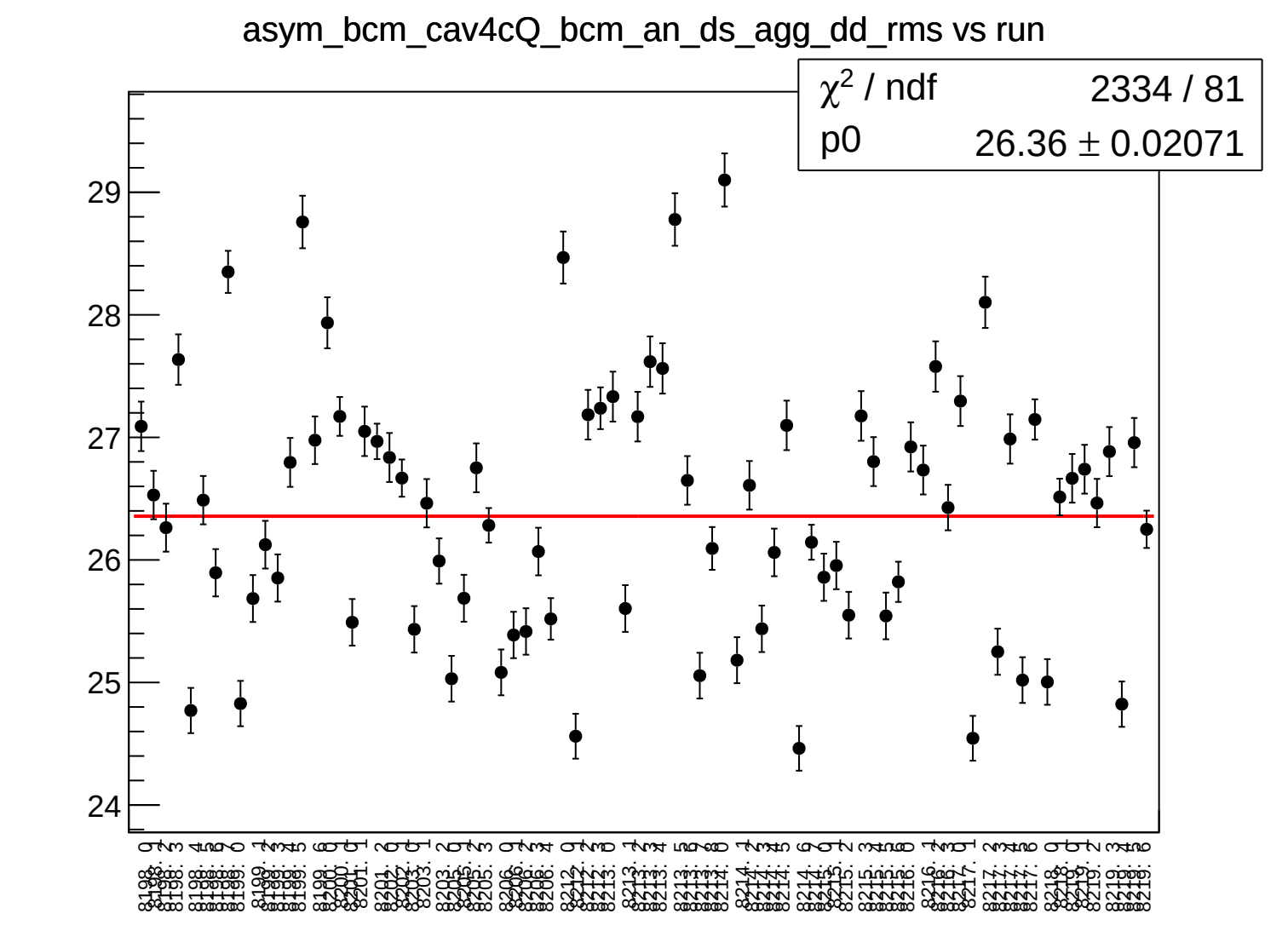

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 32.15 / 81
p0 −252.6 ± 206.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −639
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

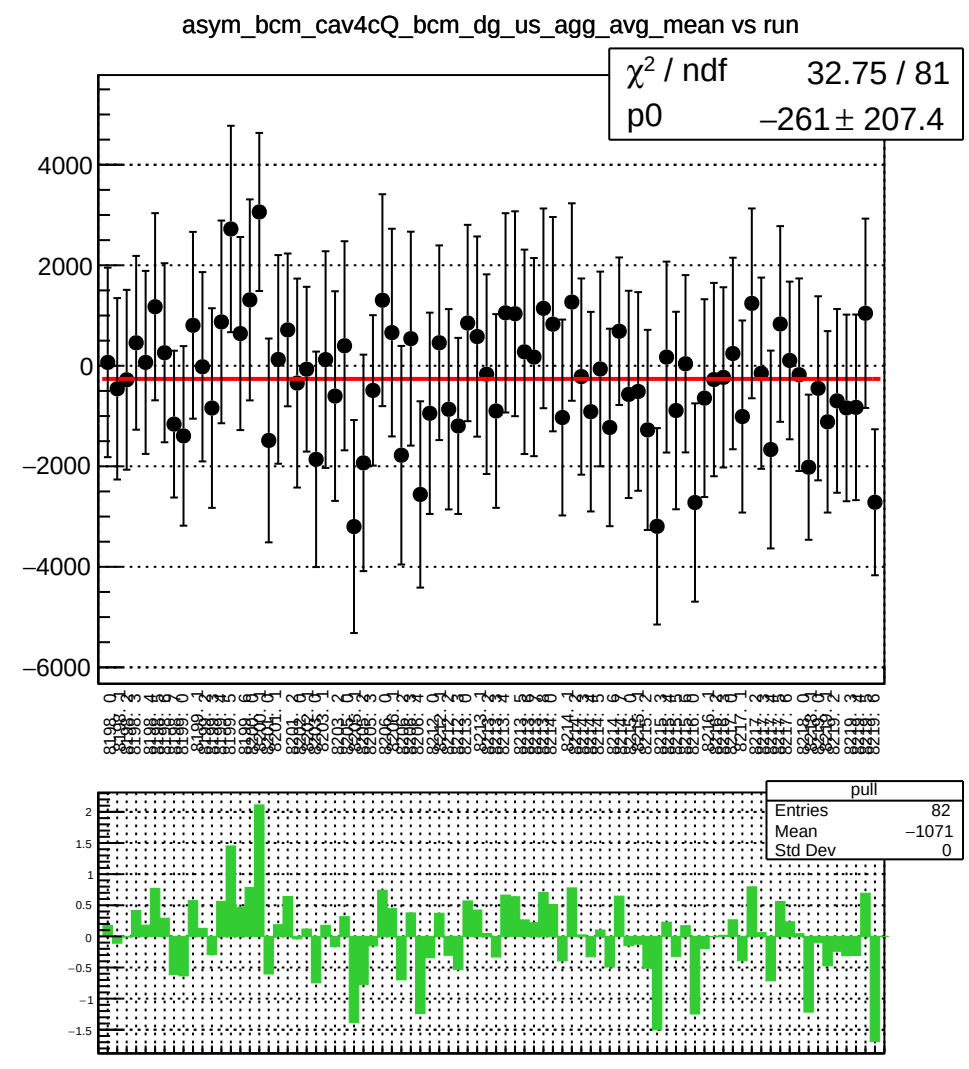

pull1D
Entries 82
Mean 0.005096
Std Dev 0.6262
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

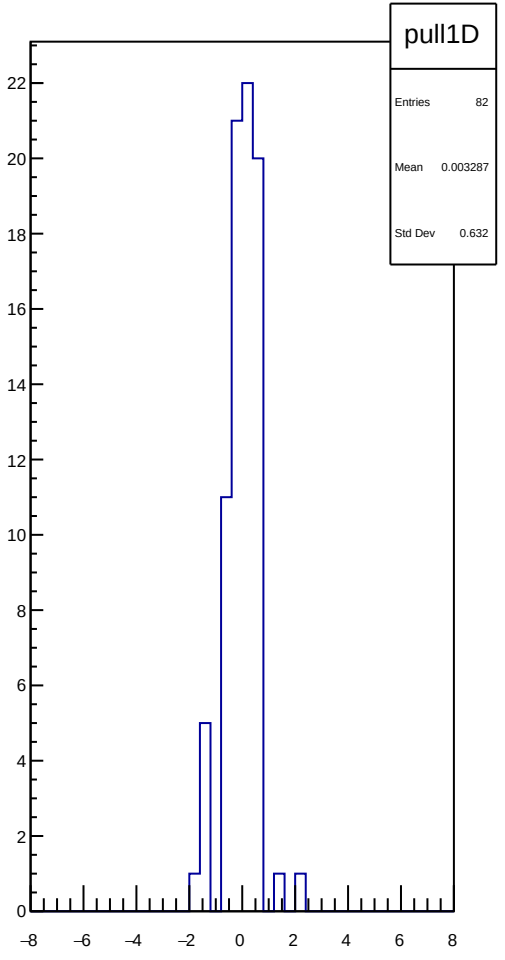

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4451 / 81
p0 185.5 ± 0.1459
210
200
190
180
170
160

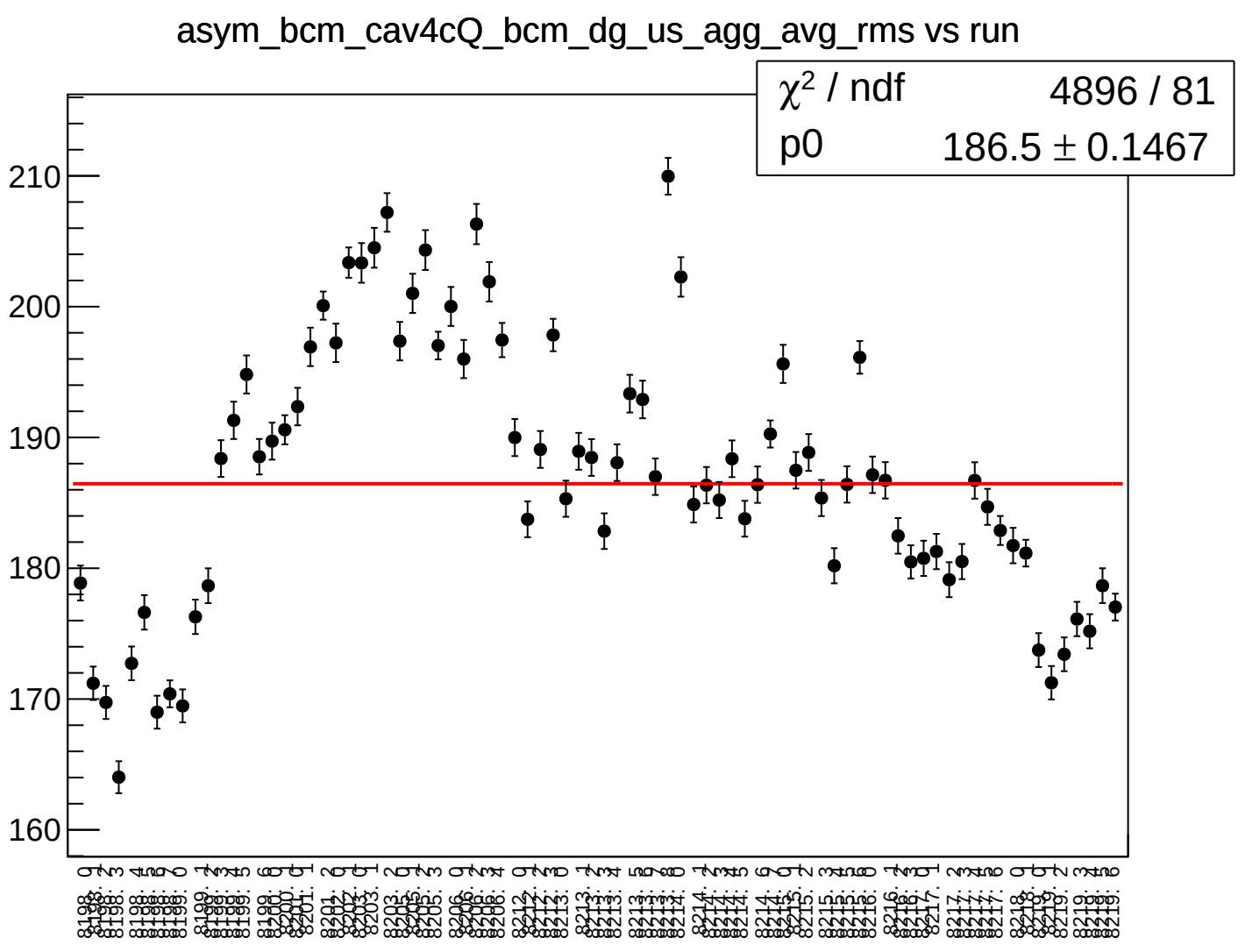

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 86.66 / 81
p0 −19.63 ± 29.3
1000
500
0
−500
−1000
pull
Entries 82
Mean 721.4
Std Dev 0
4
3
2
1
0
−1
−2

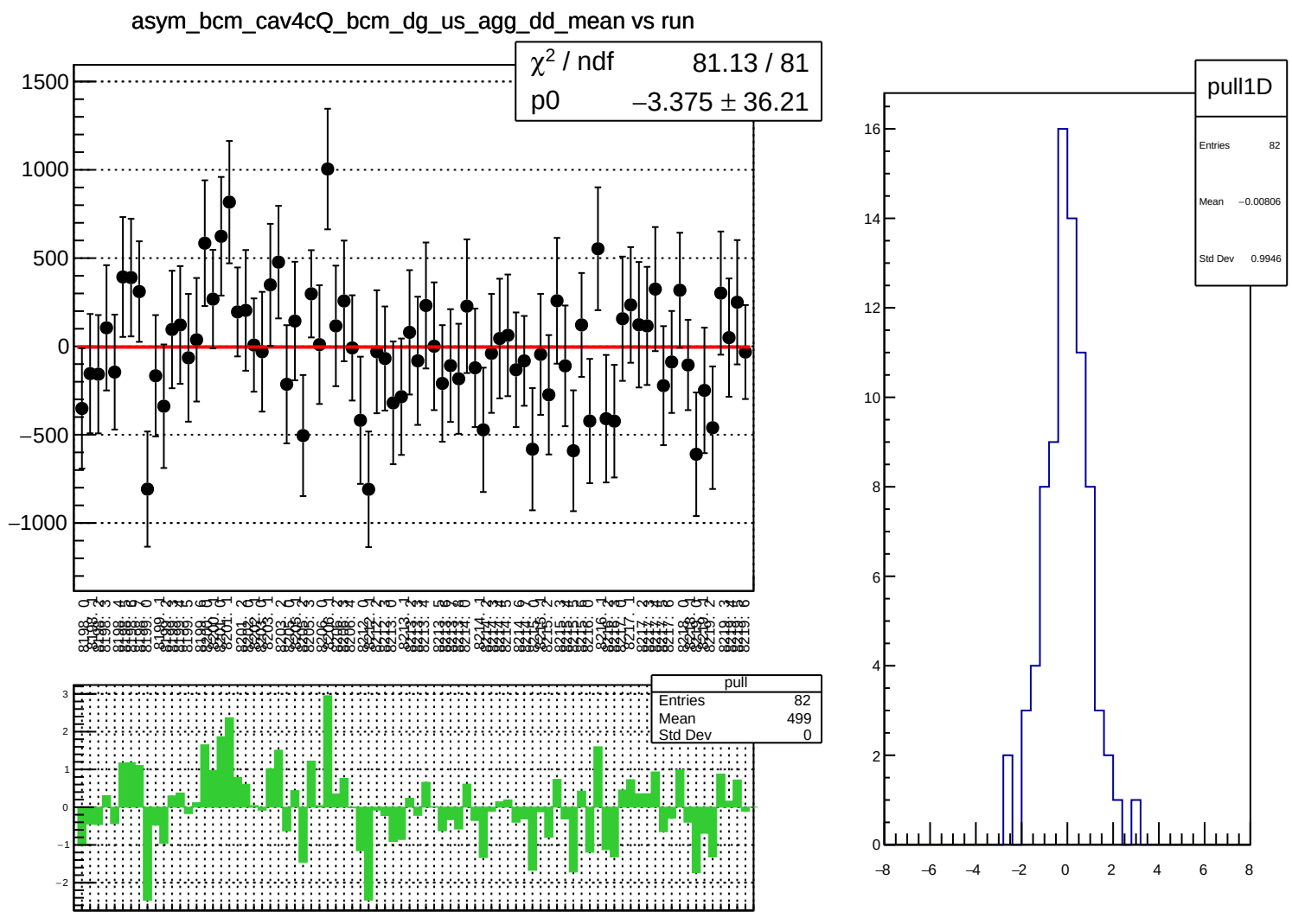

pull1D
Entries 82
Mean −0.008648
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

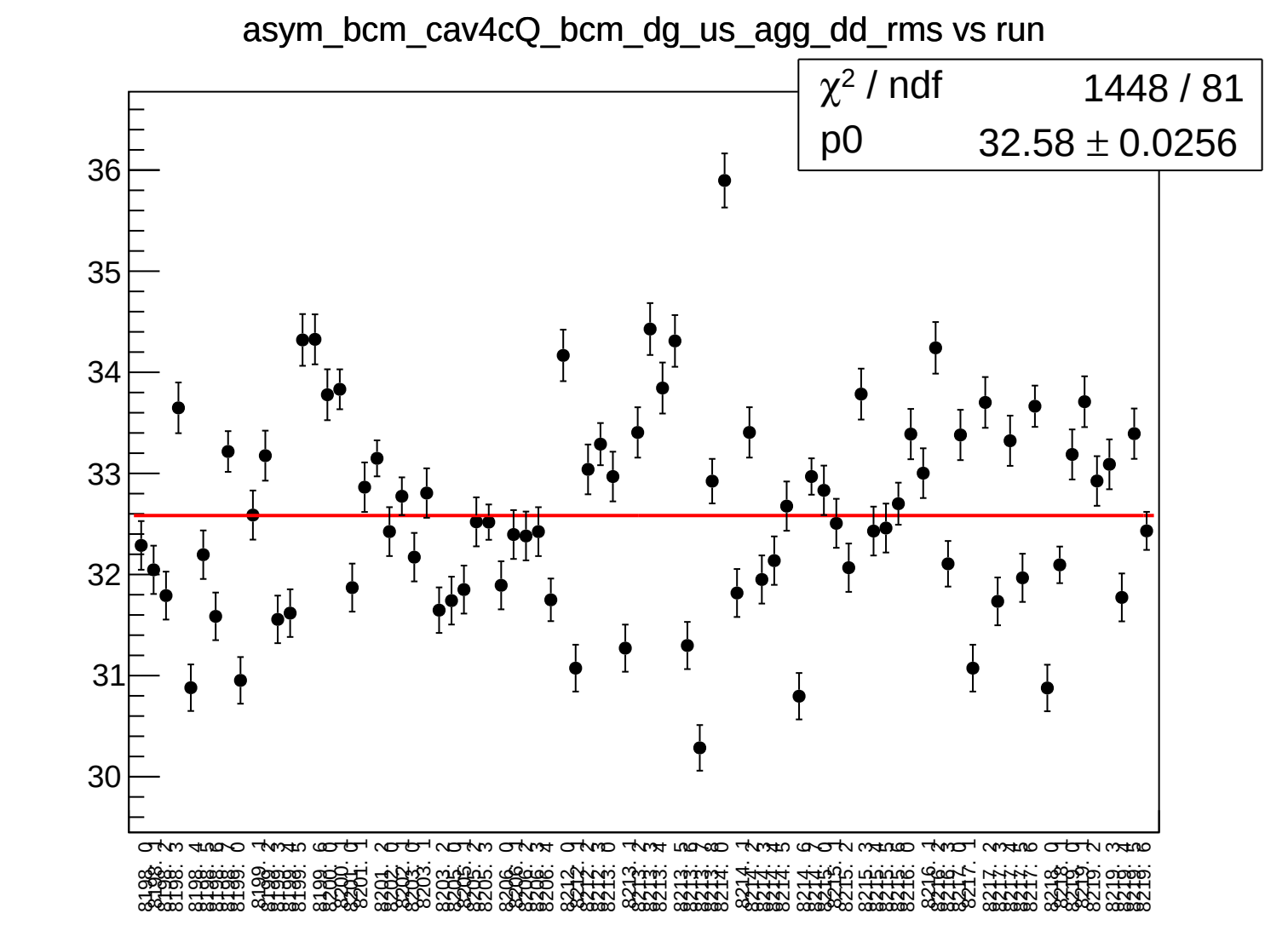

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2334 / 81
p0 26.36 ± 0.02071
29
28
27
26
25
24

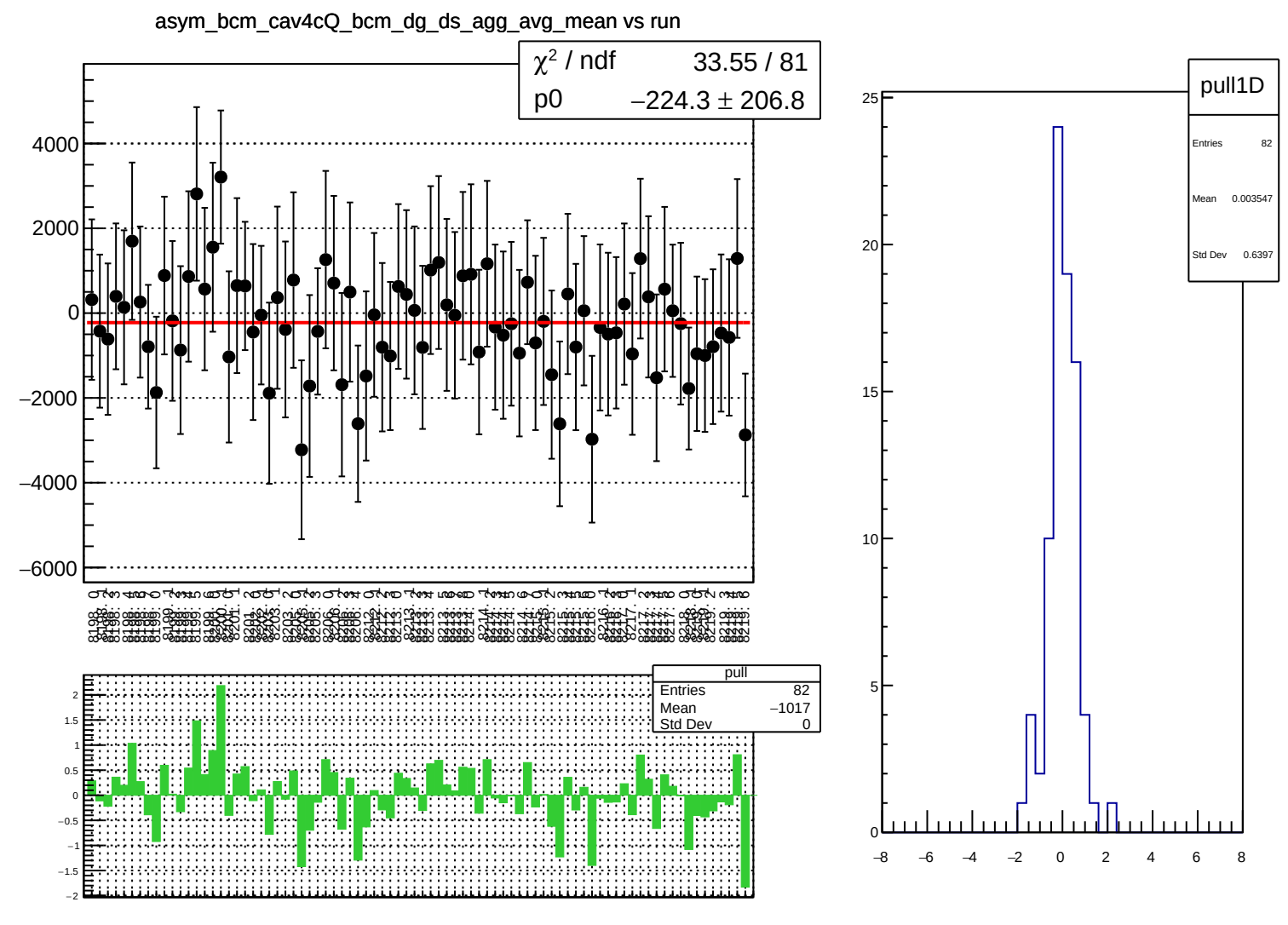

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 32.75 / 81
p0 −261 ± 207.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −1071
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

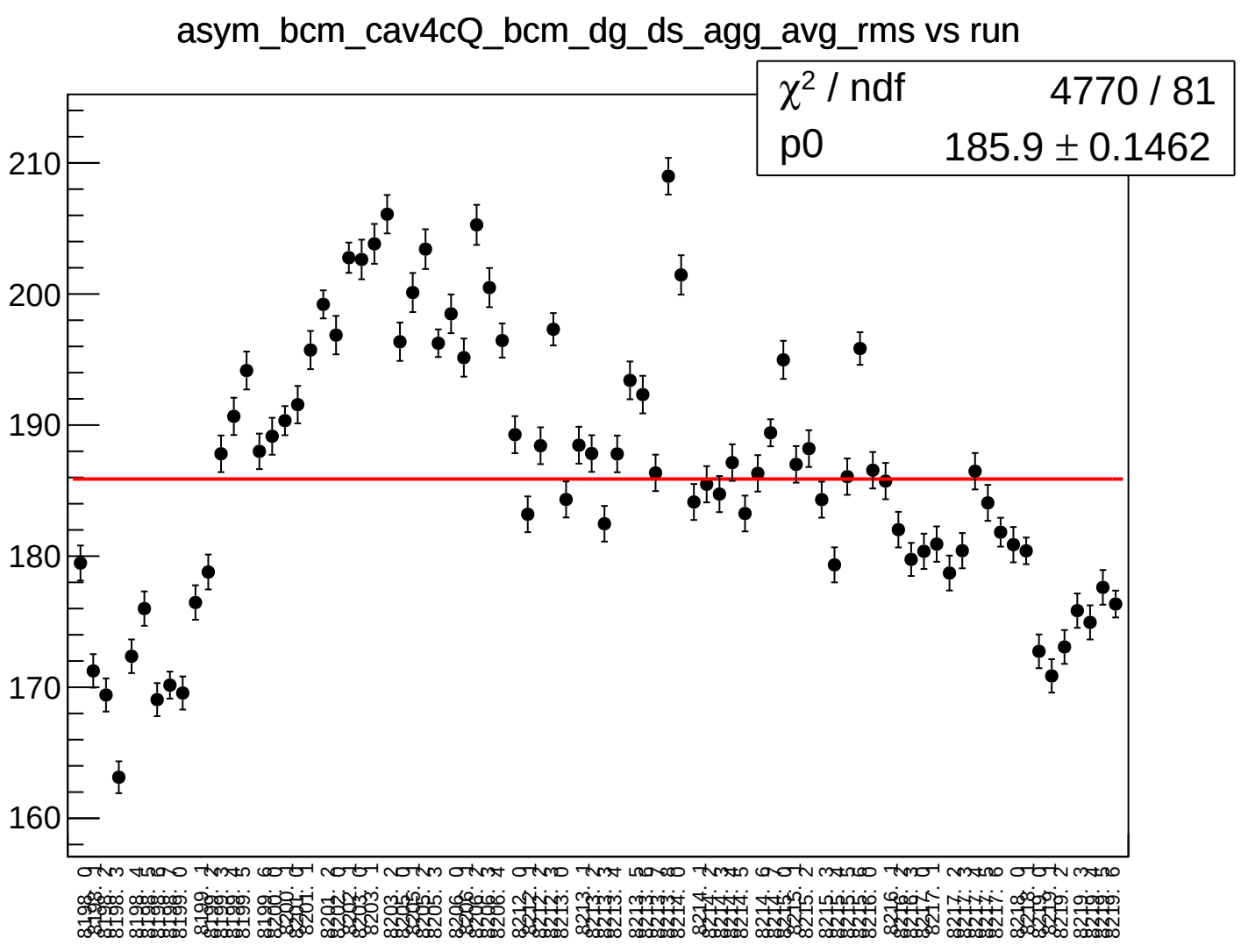

pull1D
Entries 82
Mean 0.003287
Std Dev 0.632
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

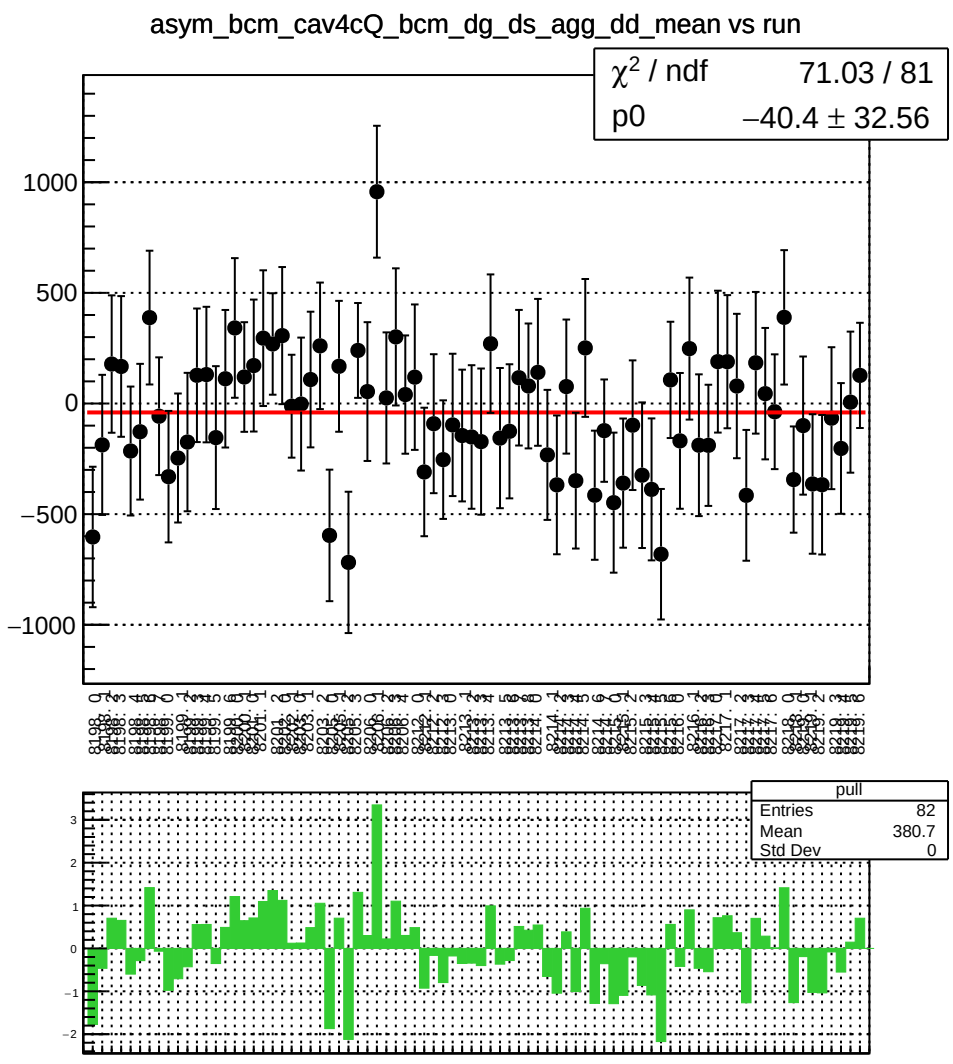

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4896 / 81
p0 186.5 ± 0.1467
210
200
190
180
170
160

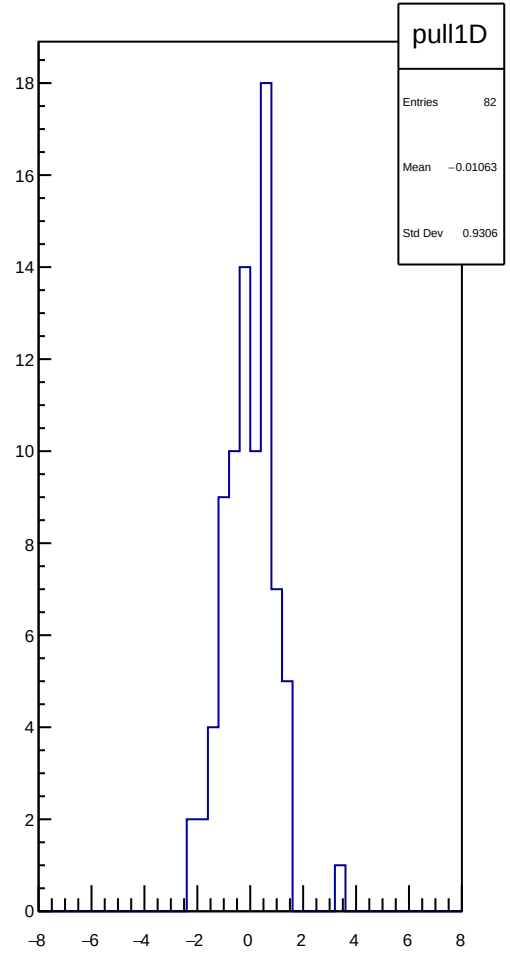

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 81.13 / 81
p0 −3.375 ± 36.21
1500
1000
500
0
−500
−1000
pull
Entries 82
Mean 499
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.00806
Std Dev 0.9946
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

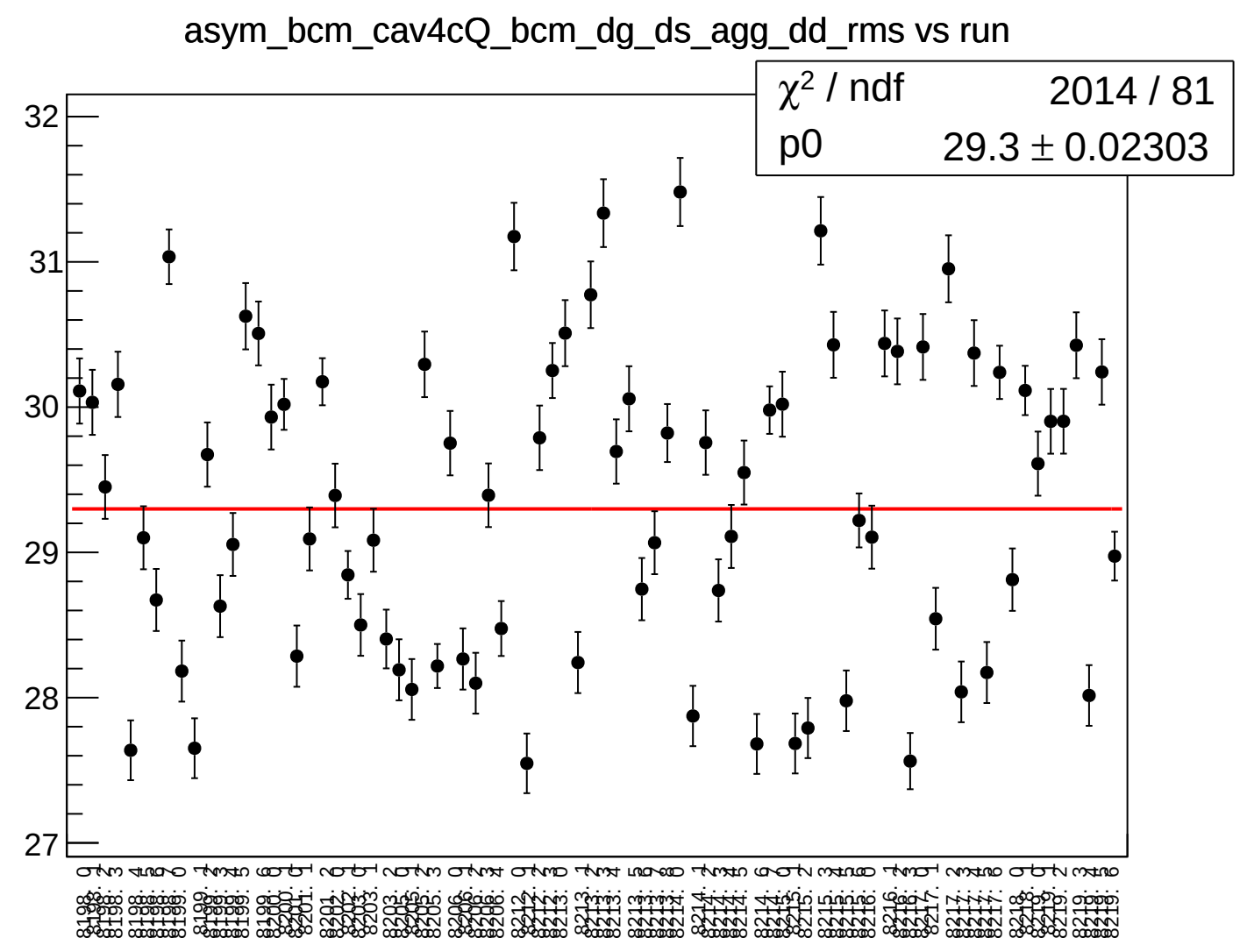

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1448 / 81
p0 32.58 ± 0.0256
36
35
34
33
32
31
30

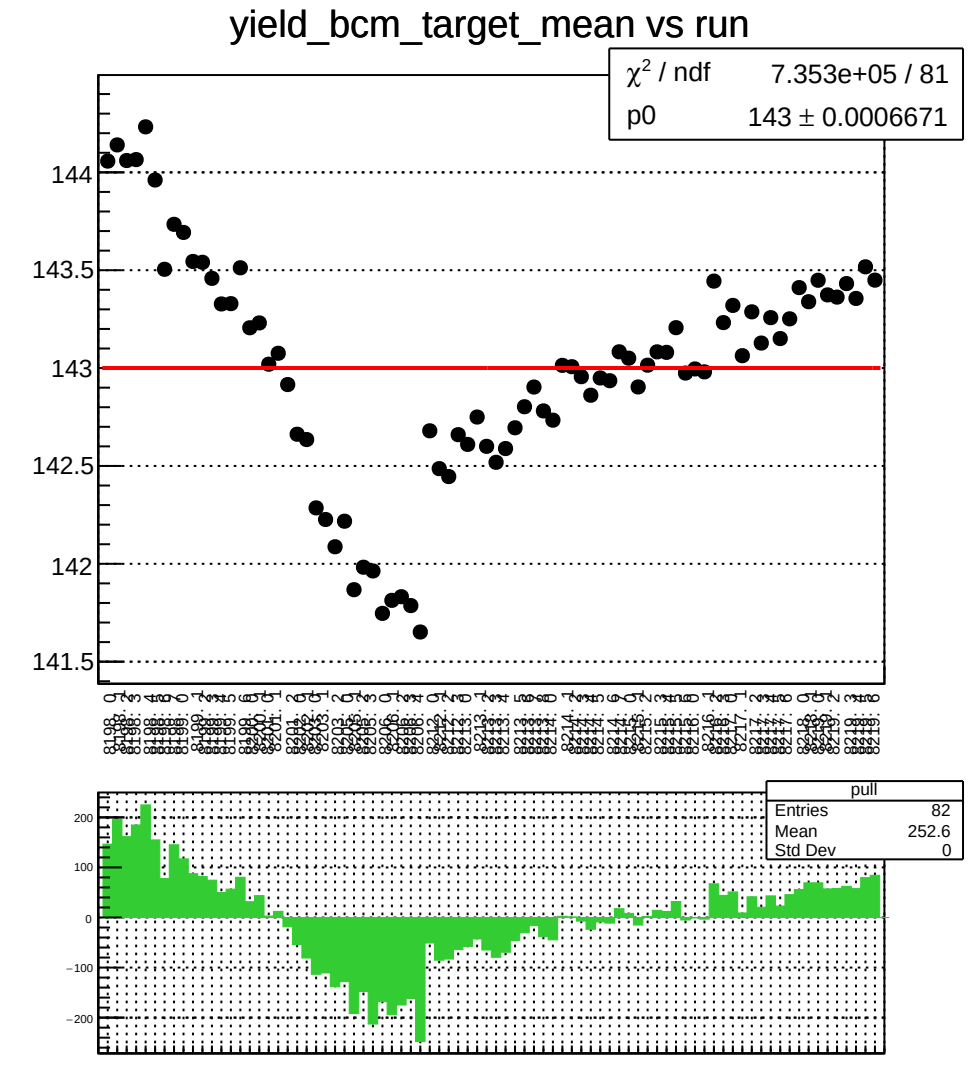

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 33.55 / 81
p0 −224.3 ± 206.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −1017
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.003547
Std Dev 0.6397
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

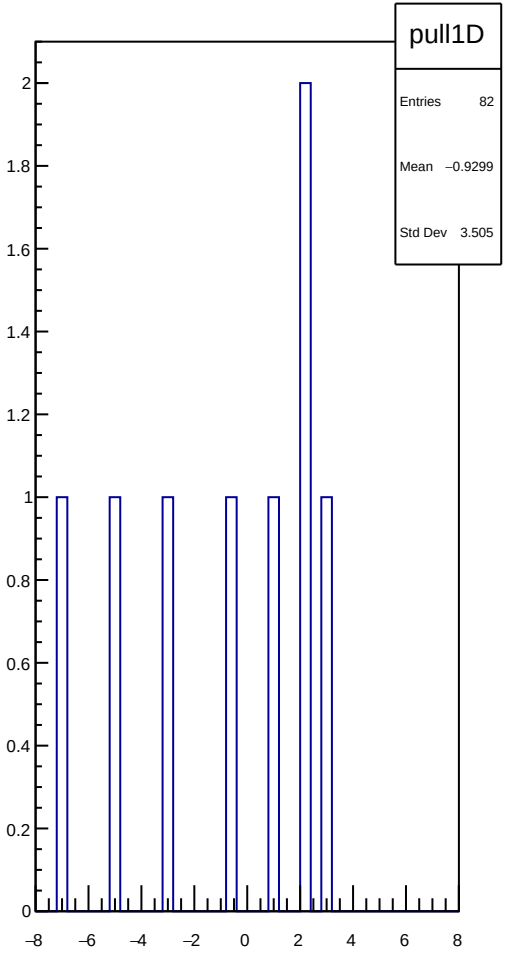

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4770 / 81
p0 185.9 ± 0.1462
210
200
190
180
170
160

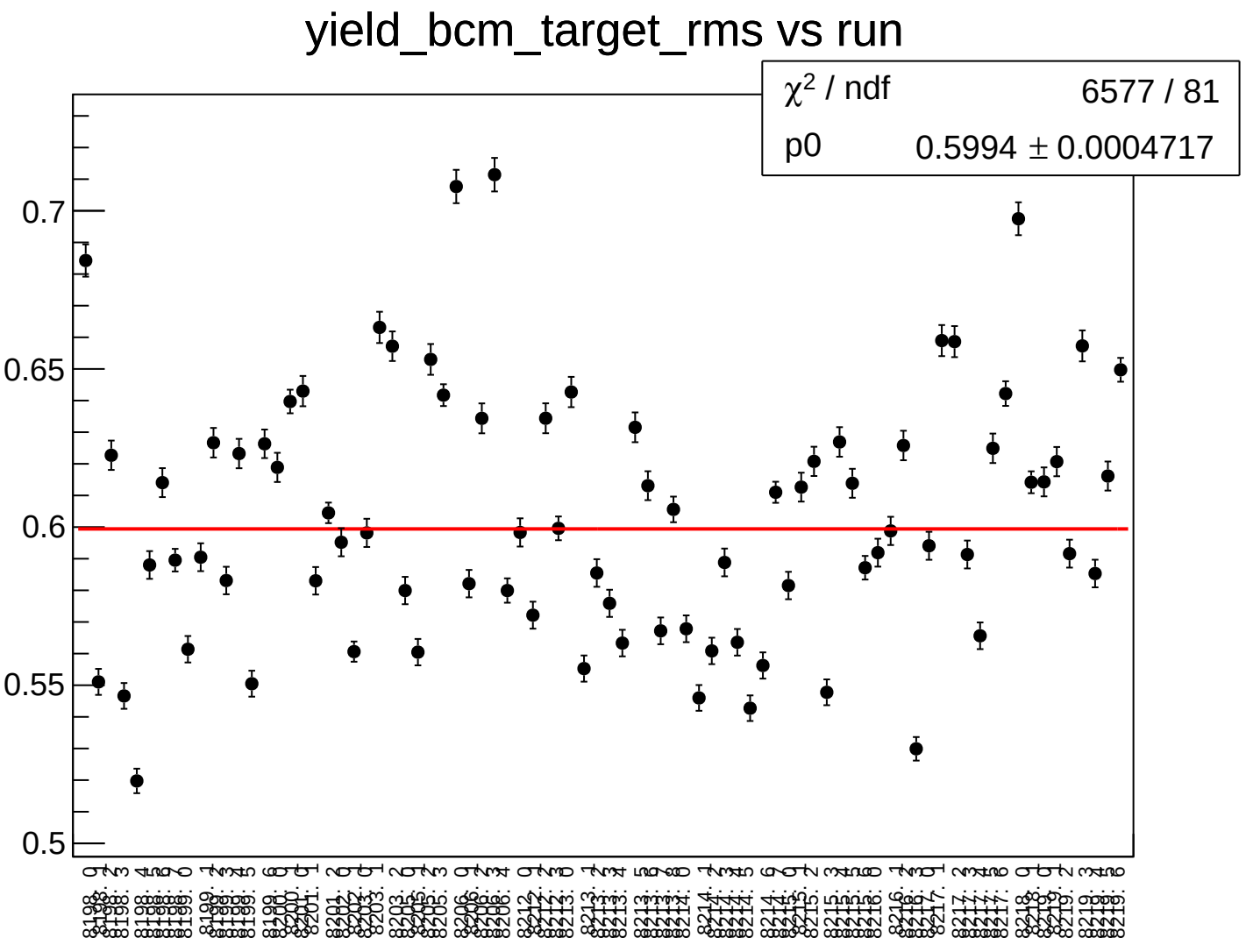

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 71.03 / 81
p0 −40.4 ± 32.56
1000
500
0
−500
−1000
pull
Entries 82
Mean 380.7
Std Dev 0
3
2
1
0
−1
−2

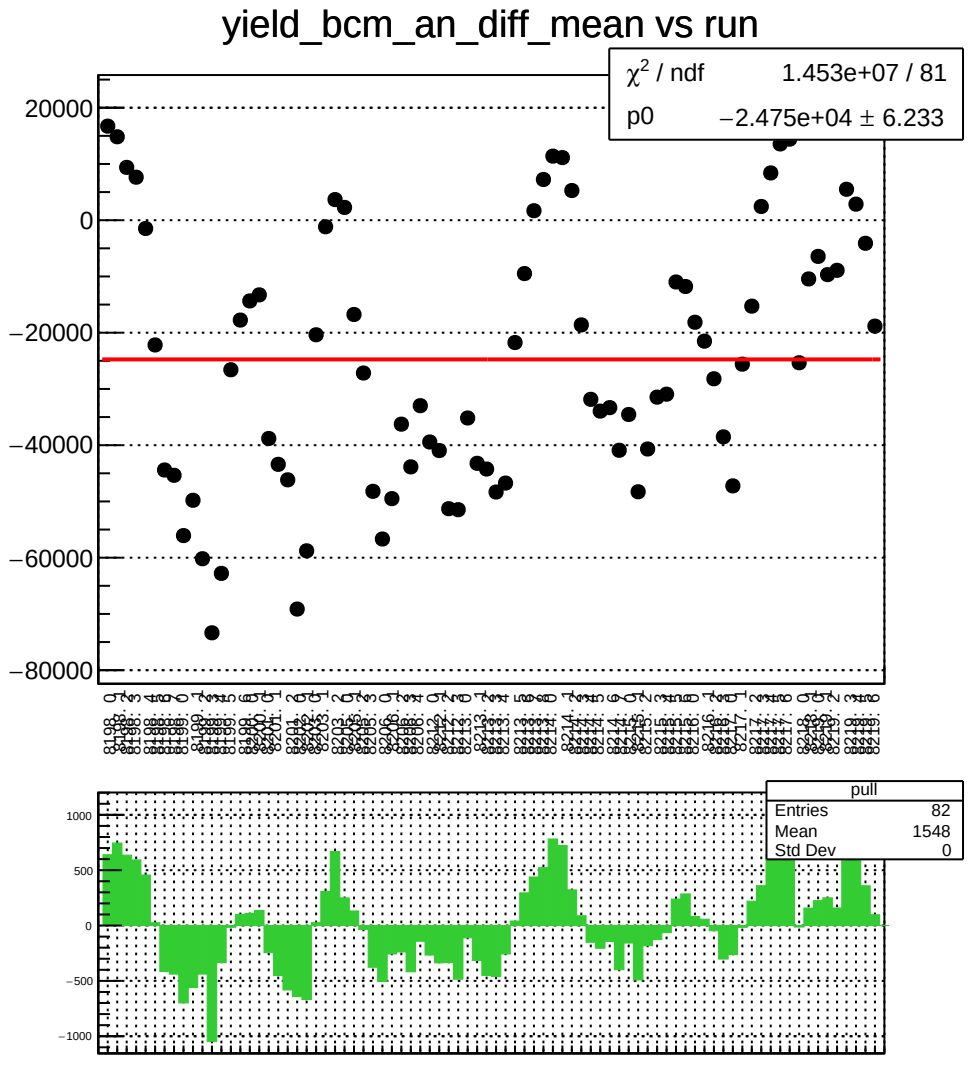

pull1D
Entries 82
Mean −0.01063
Std Dev 0.9306
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

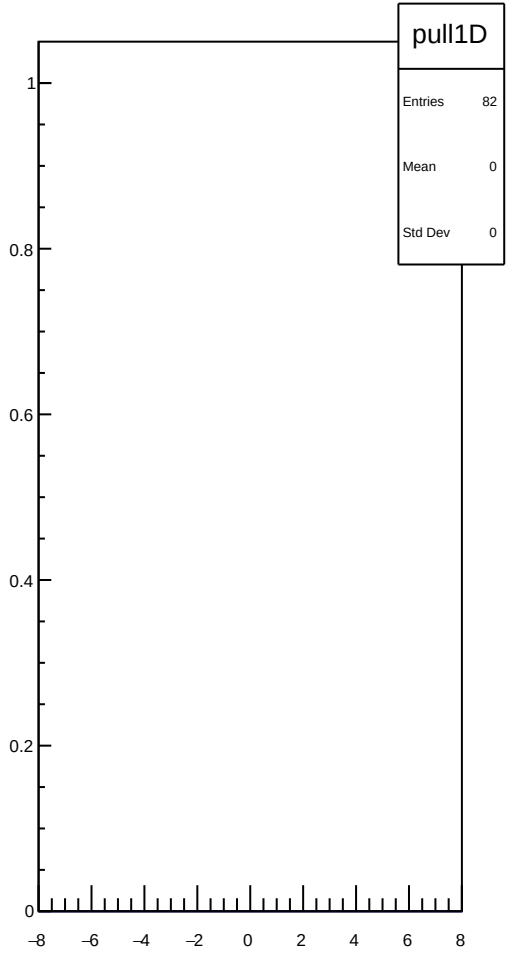

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2014 / 81
p0 29.3 ± 0.02303
32
31
30
29
28
27

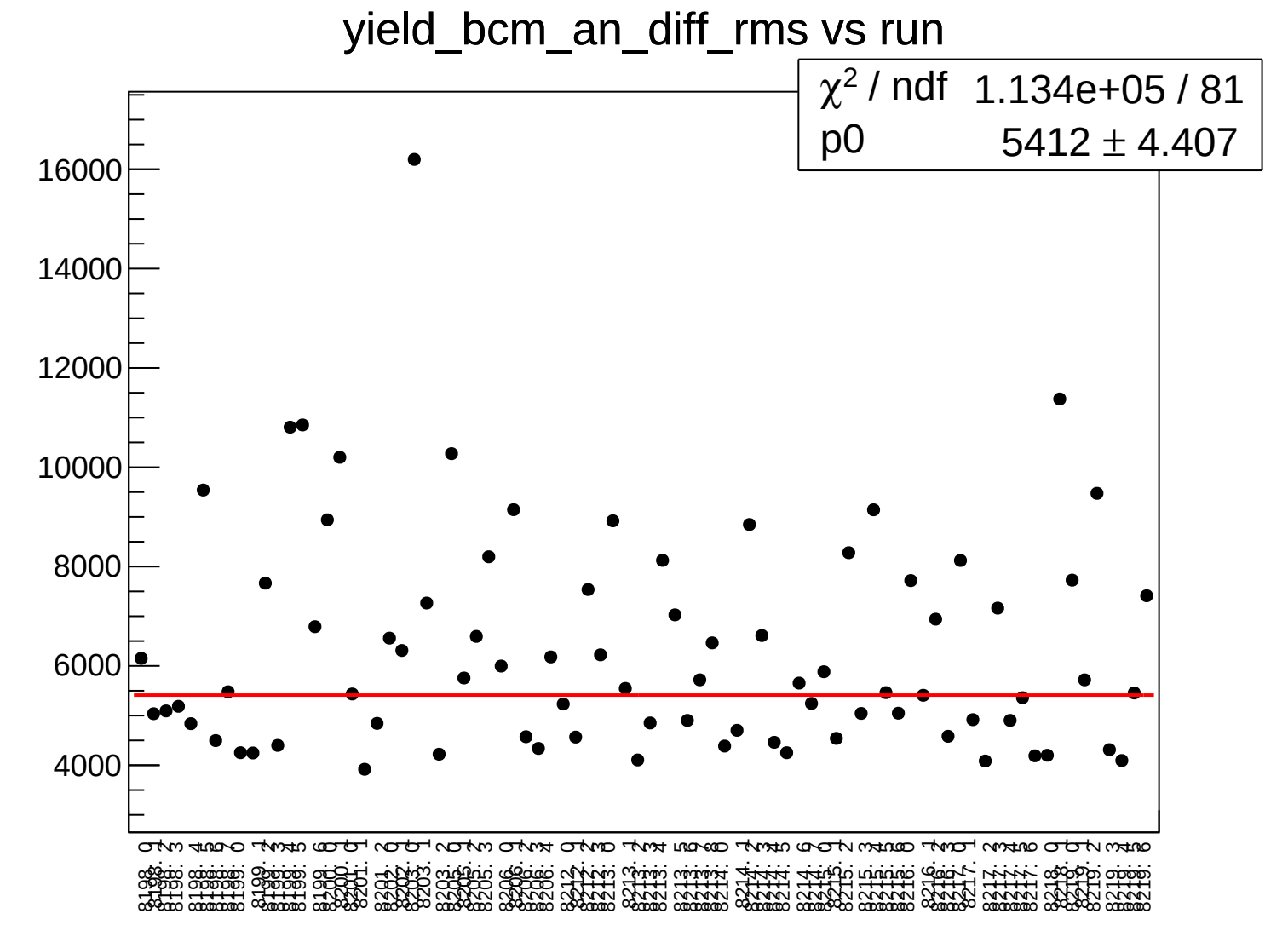

yield_bcm_target_mean vs run
χ² / ndf 7.353e+05 / 81
p0 143 ± 0.0006671
144
143.5
143
142.5
142
141.5
pull
Entries 82
Mean 252.6
Std Dev 0
200
100
0
−100
−200

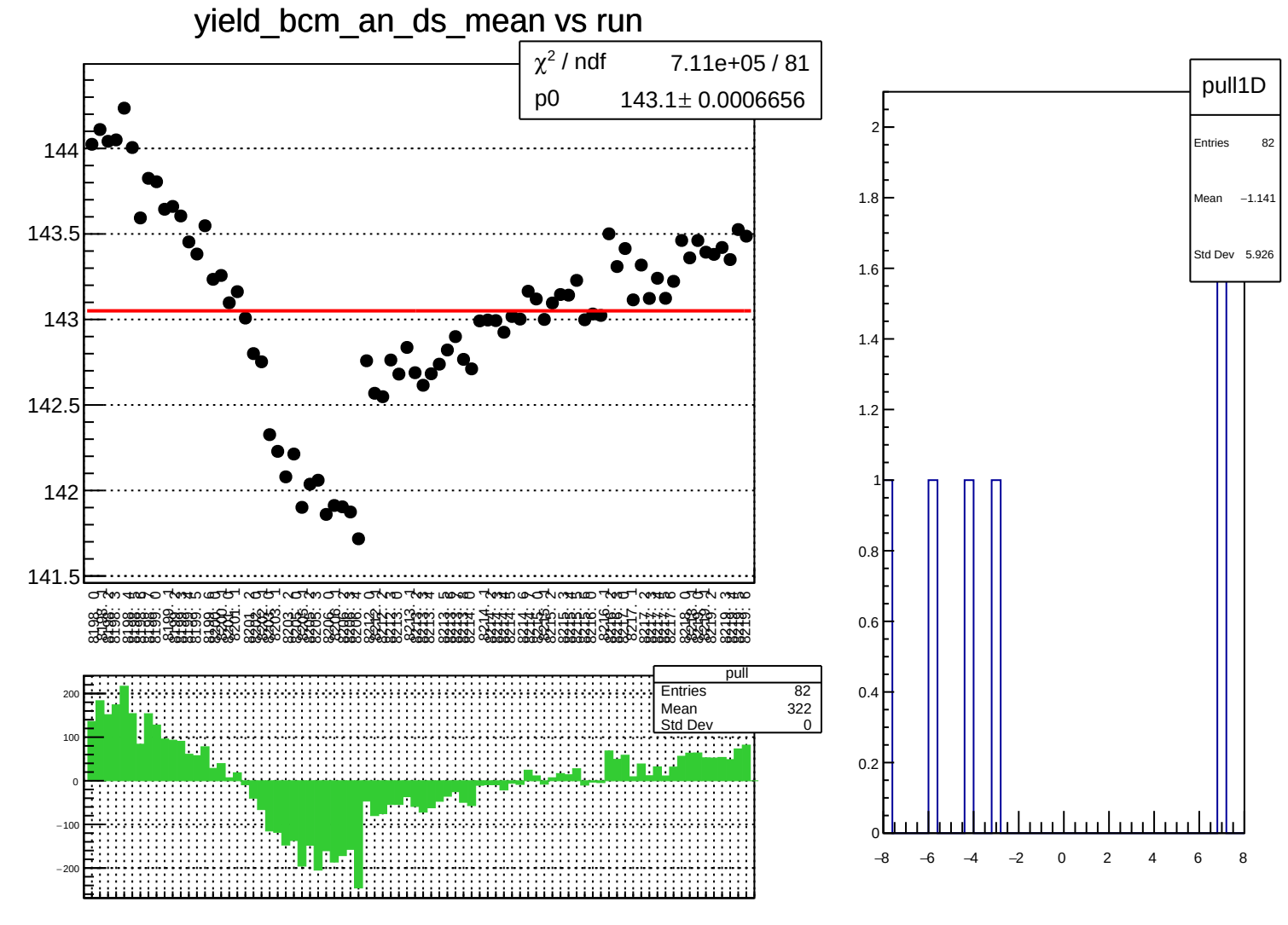

pull1D
Entries 82
Mean −0.9299
Std Dev 3.505
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

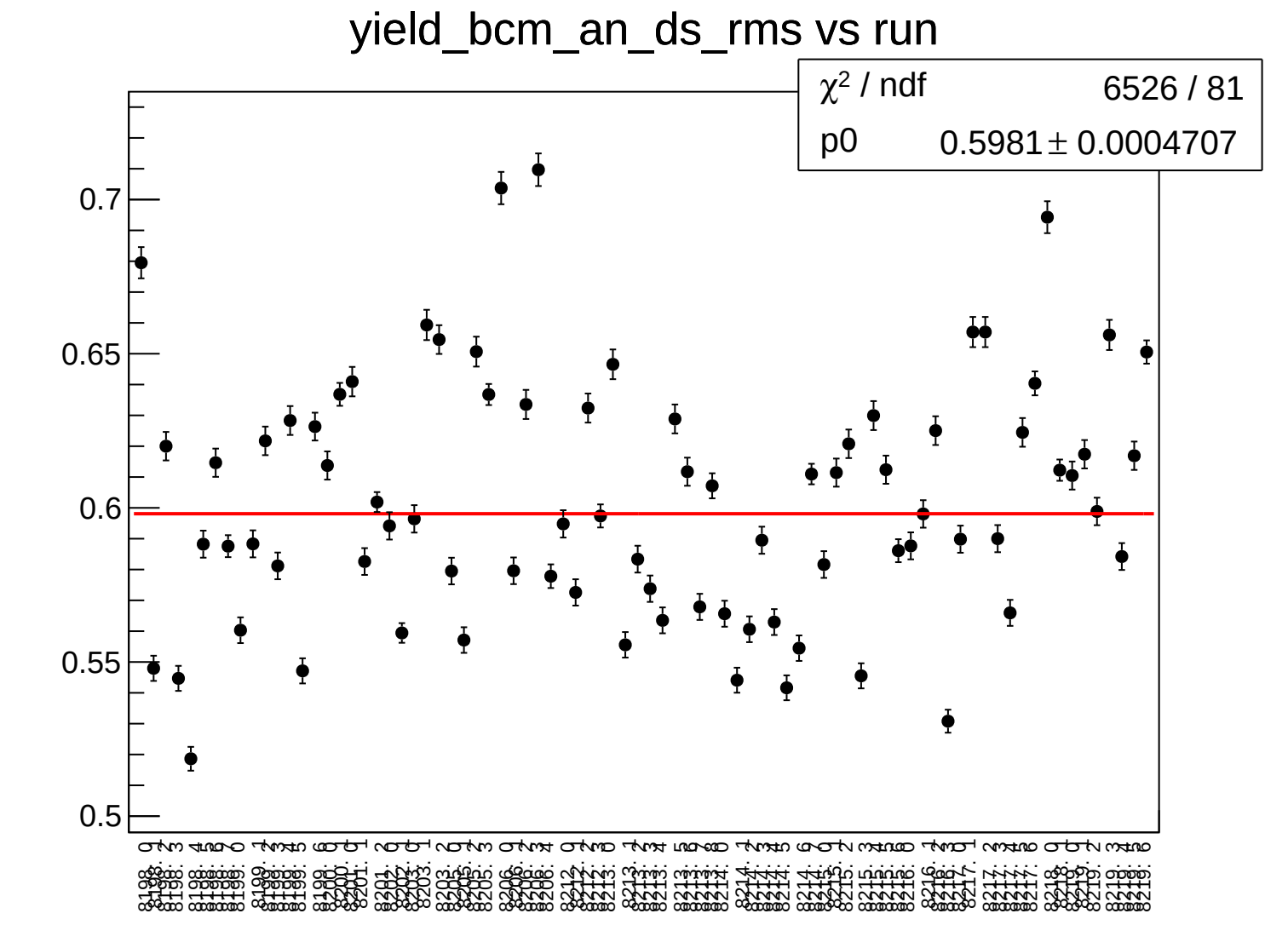

yield_bcm_target_rms vs run
χ² / ndf 6577 / 81
p0 0.5994 ± 0.0004717
0.7
0.65
0.6
0.55
0.5

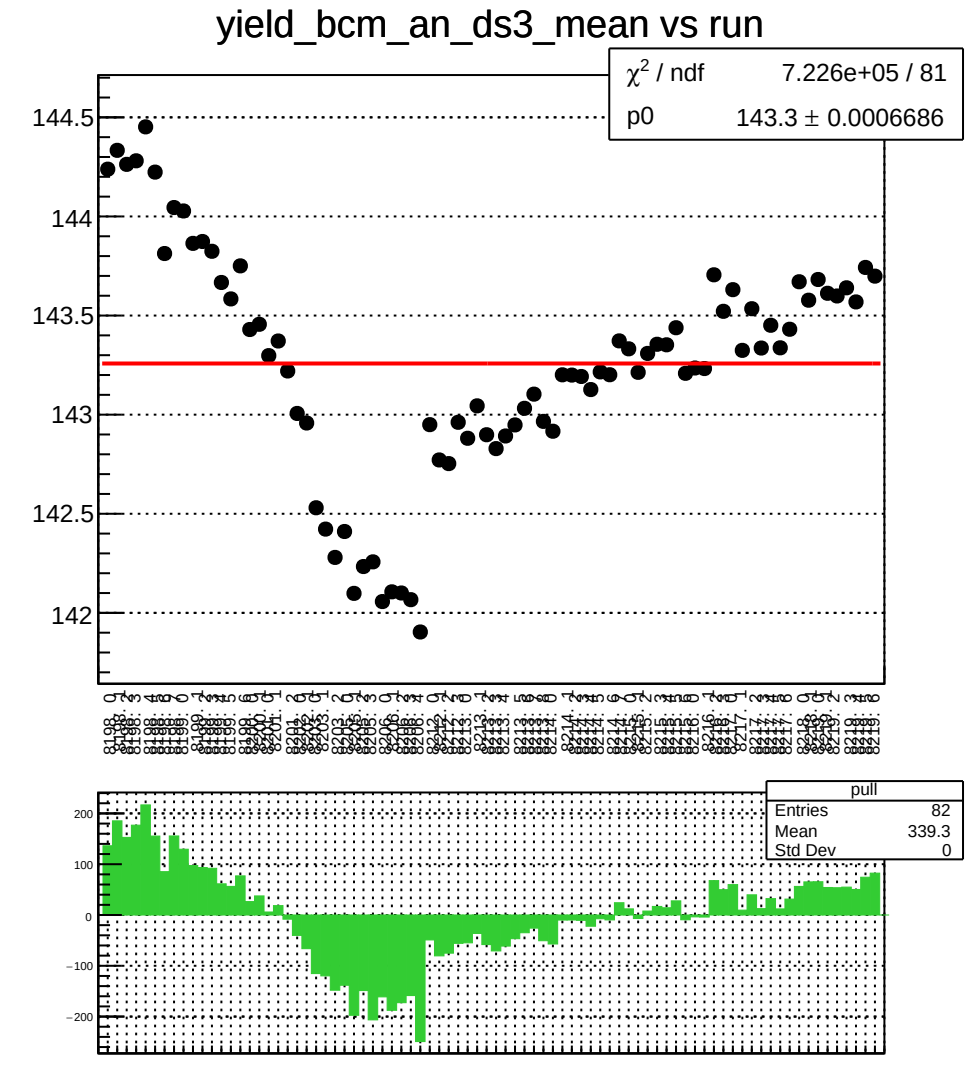

yield_bcm_an_diff_mean vs run
χ² / ndf 1.453e+07 / 81
p0 −2.475e+04 ± 6.233
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 1548
Std Dev 0
1000
500
0
−500
−1000

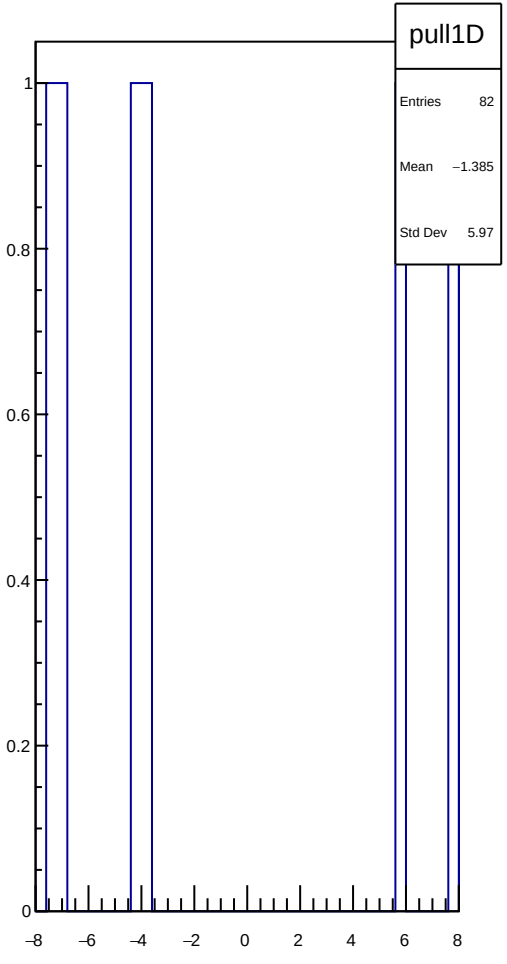

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

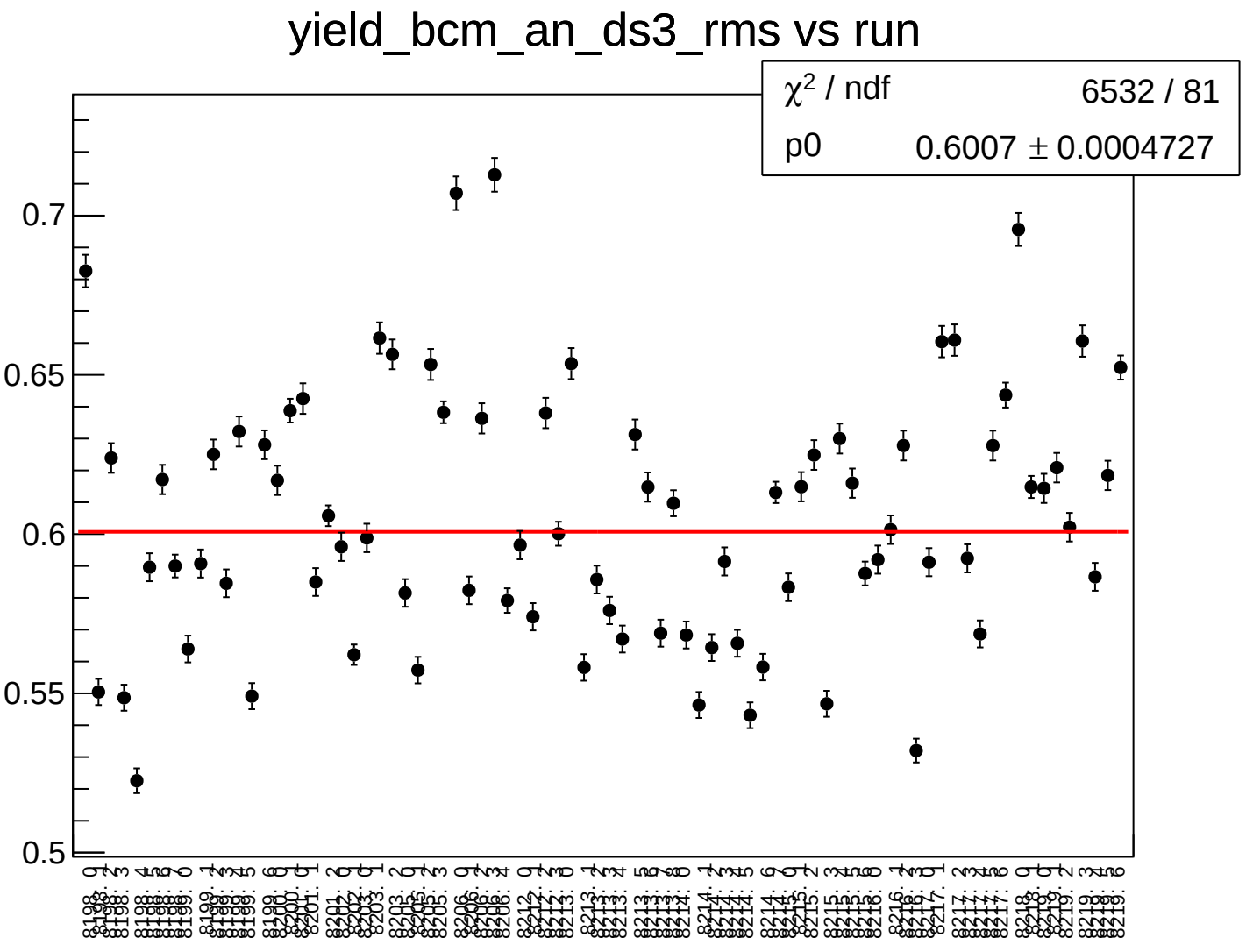

yield_bcm_an_diff_rms vs run
χ² / ndf 1.134e+05 / 81
p0 5412 ± 4.407
16000
14000
12000
10000
8000
6000
4000

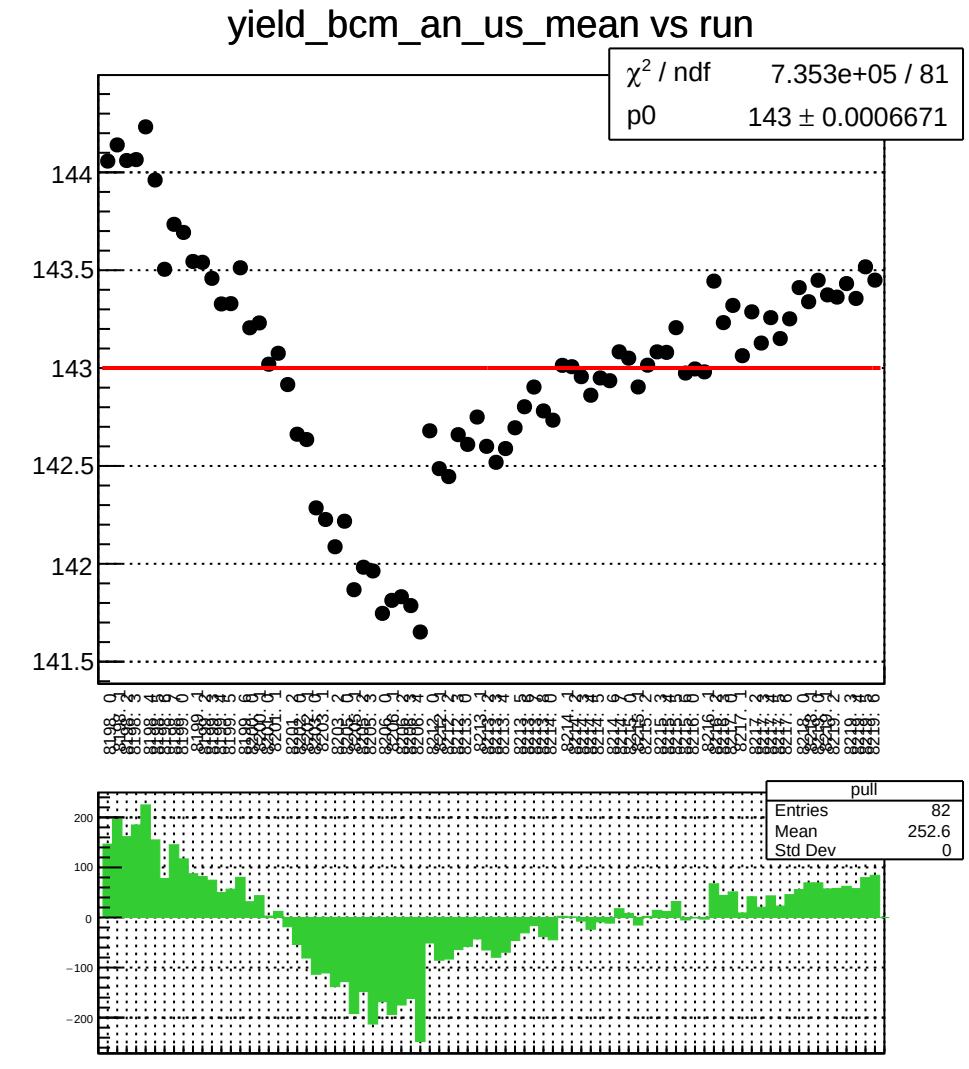

yield_bcm_an_ds_mean vs run
χ² / ndf 7.11e+05 / 81
p0 143.1± 0.0006656
144
143.5
143
142.5
142
141.5
pull
Entries 82
Mean 322
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 82
Mean −1.141
Std Dev 5.926
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

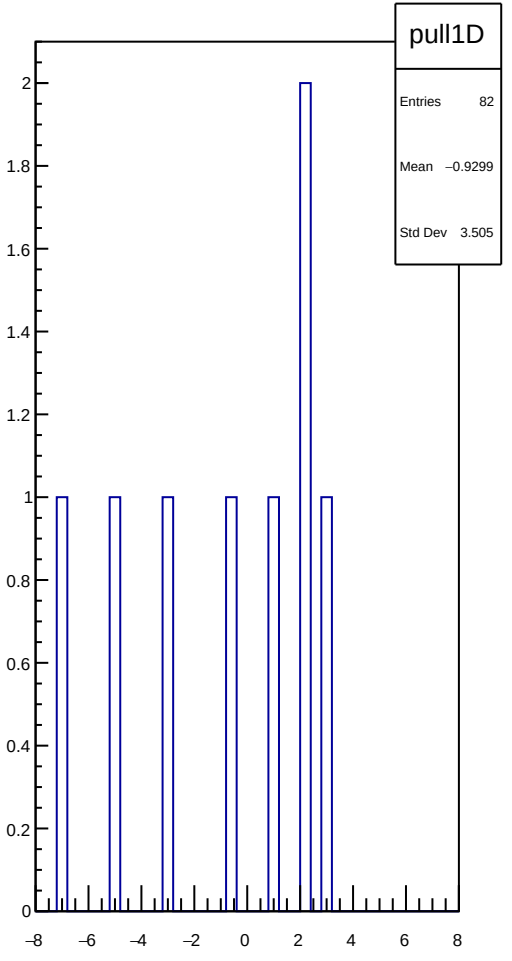

yield_bcm_an_ds_rms vs run
χ² / ndf 6526 / 81
p0 0.5981 ± 0.0004707
0.7
0.65
0.6
0.55
0.5

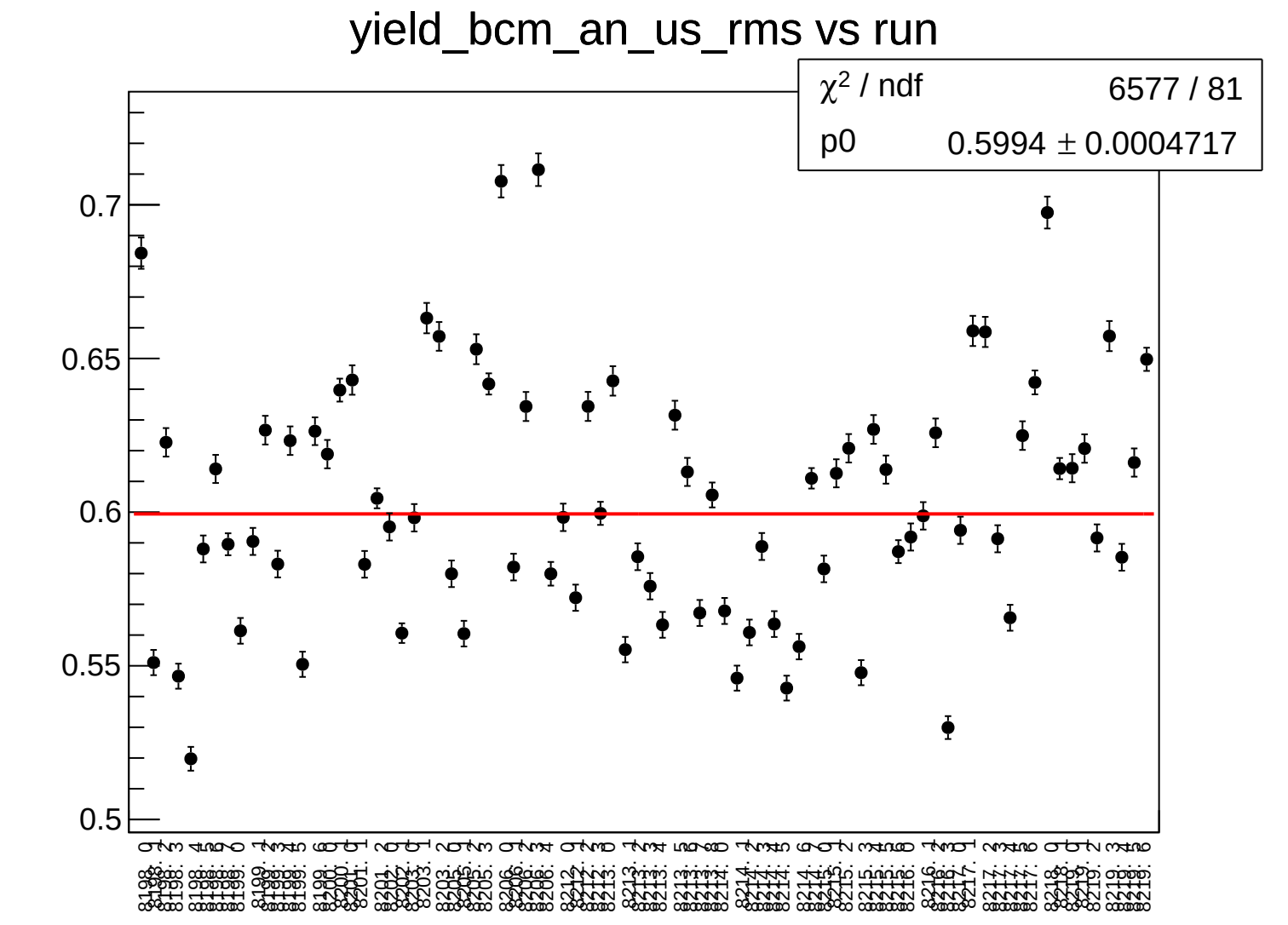

yield_bcm_an_ds3_mean vs run
χ² / ndf 7.226e+05 / 81
p0 143.3 ± 0.0006686
144.5
144
143.5
143
142.5
142
pull
Entries 82
Mean 339.3
Std Dev 0
200
100
0
−100
−200

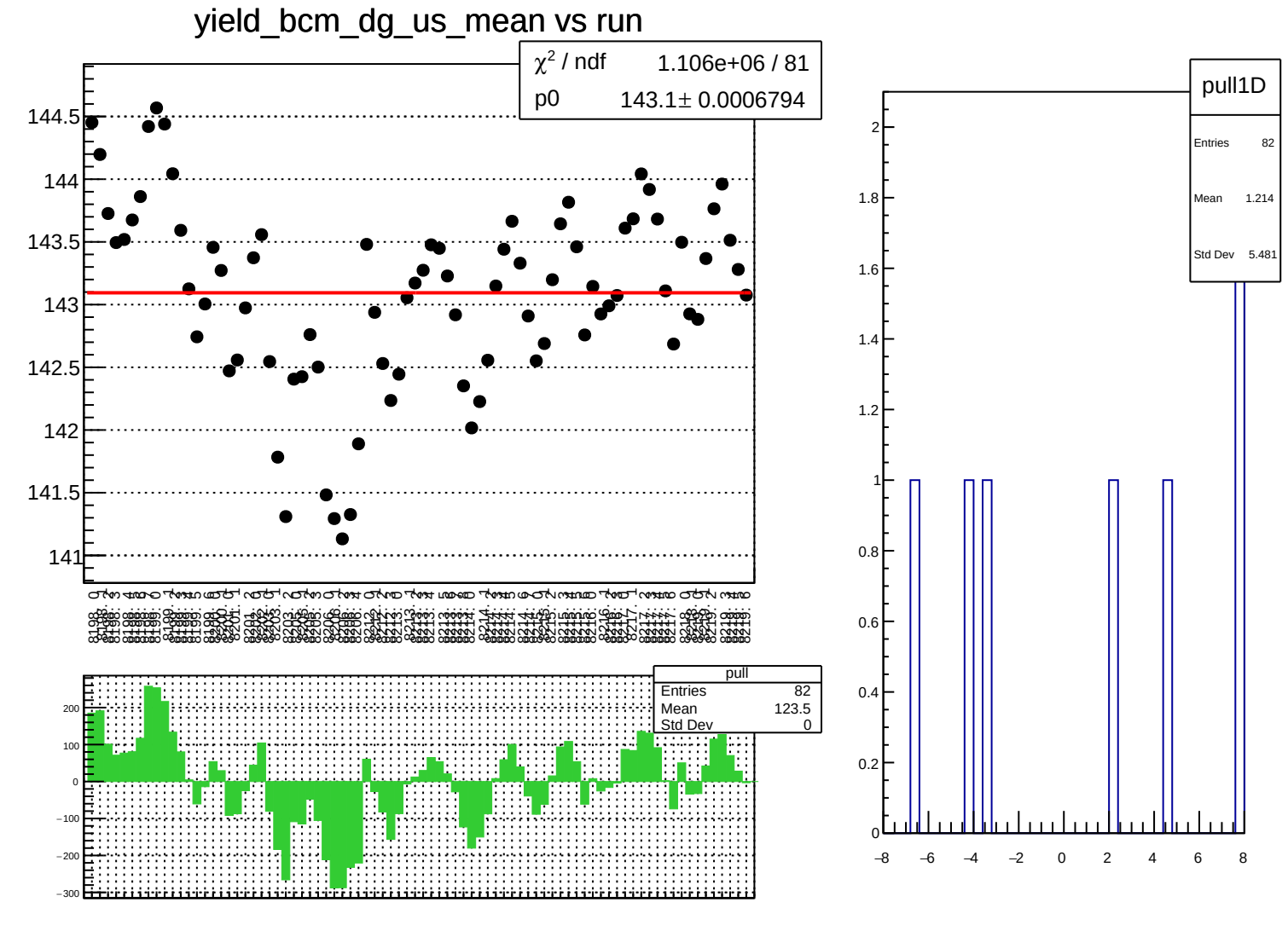

pull1D
Entries 82
Mean −1.385
Std Dev 5.97
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

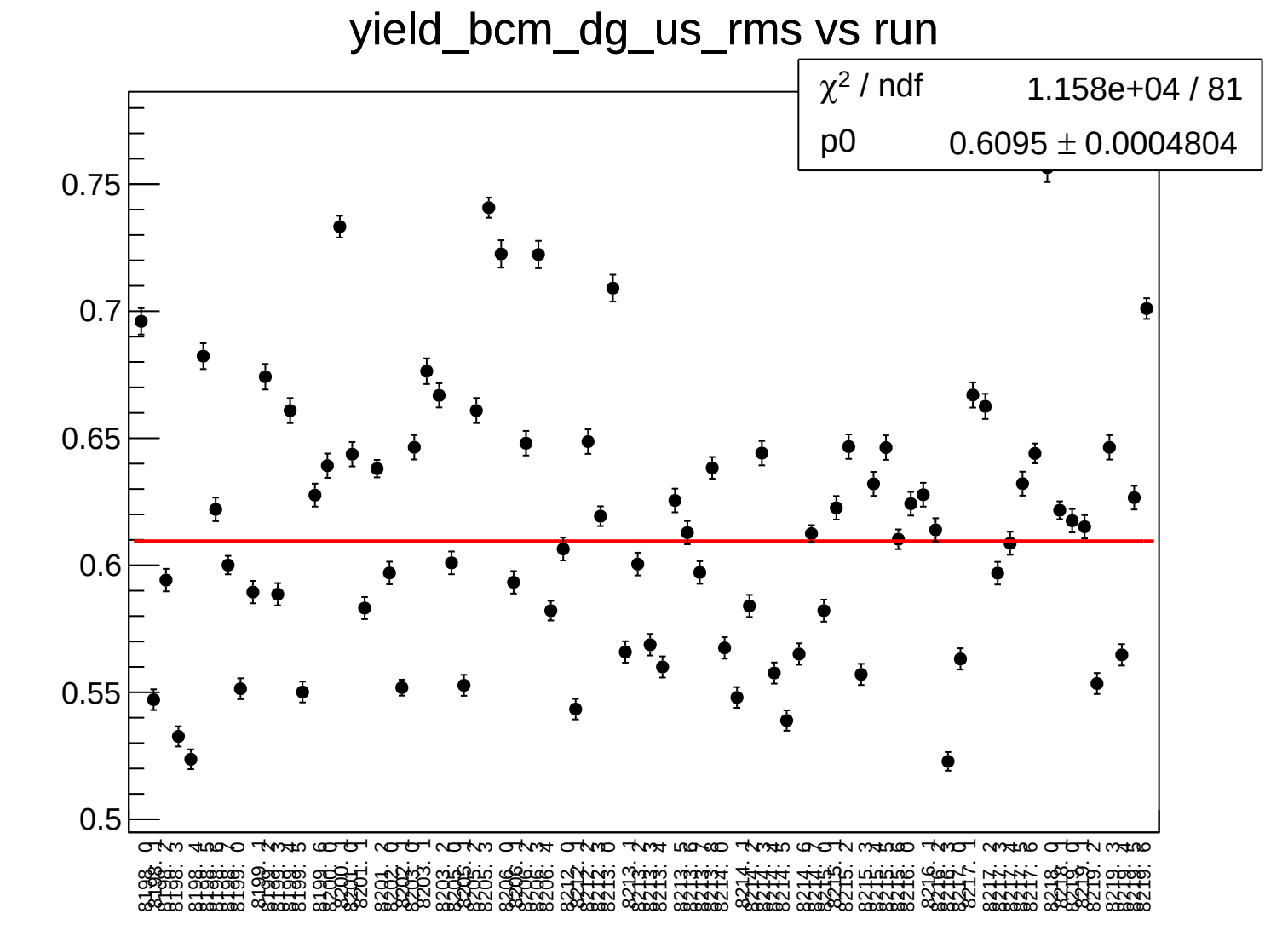

yield_bcm_an_ds3_rms vs run
χ² / ndf 6532 / 81
p0 0.6007 ± 0.0004727
0.7
0.65
0.6
0.55
0.5

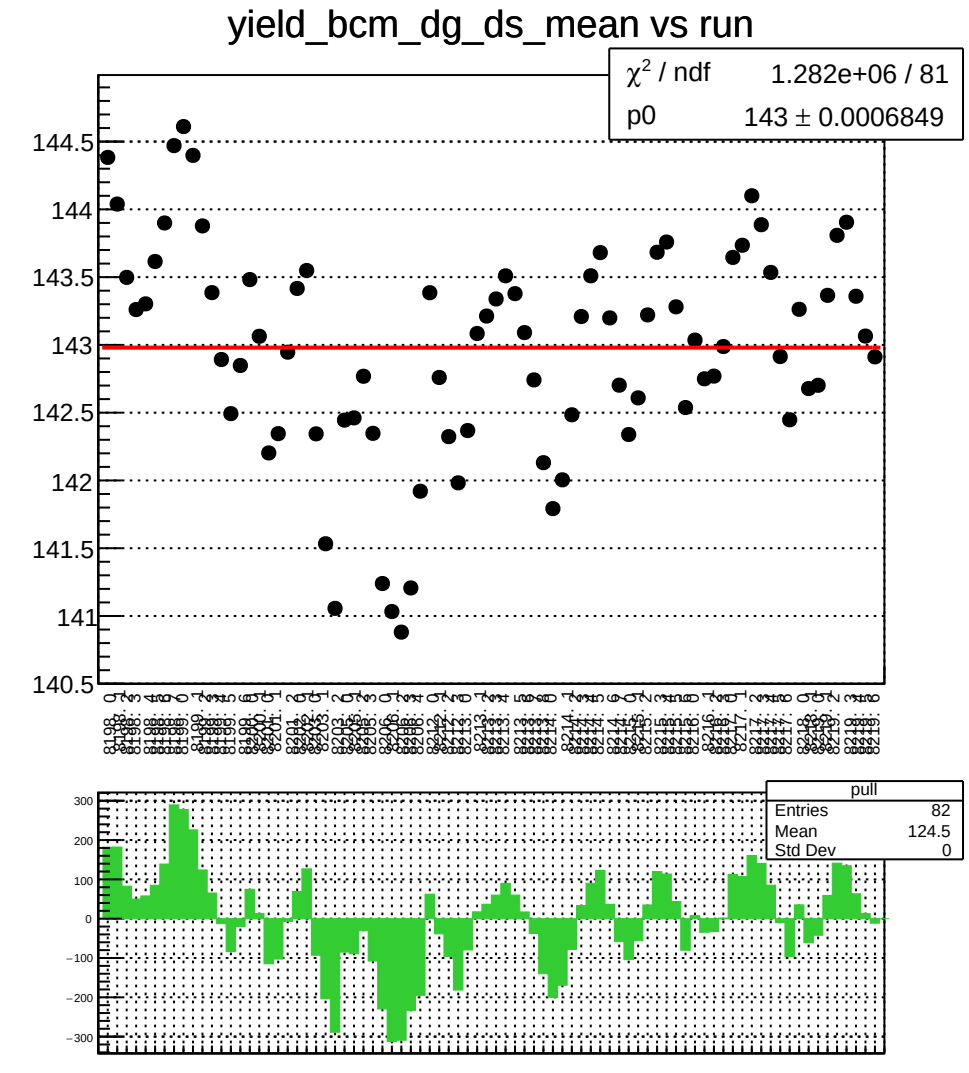

yield_bcm_an_us_mean vs run
χ² / ndf 7.353e+05 / 81
p0 143 ± 0.0006671
144
143.5
143
142.5
142
141.5
pull
Entries 82
Mean 252.6
Std Dev 0
200
100
0
−100
−200

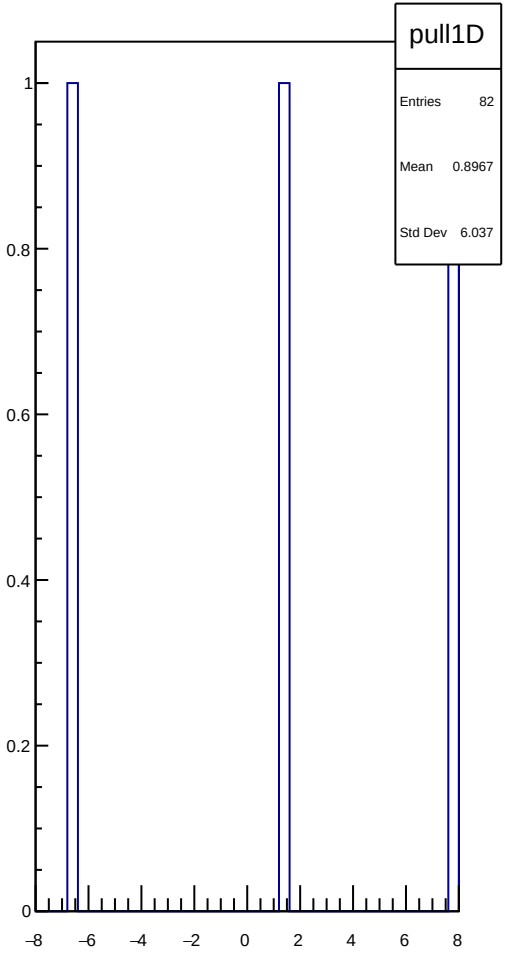

pull1D
Entries 82
Mean −0.9299
Std Dev 3.505
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

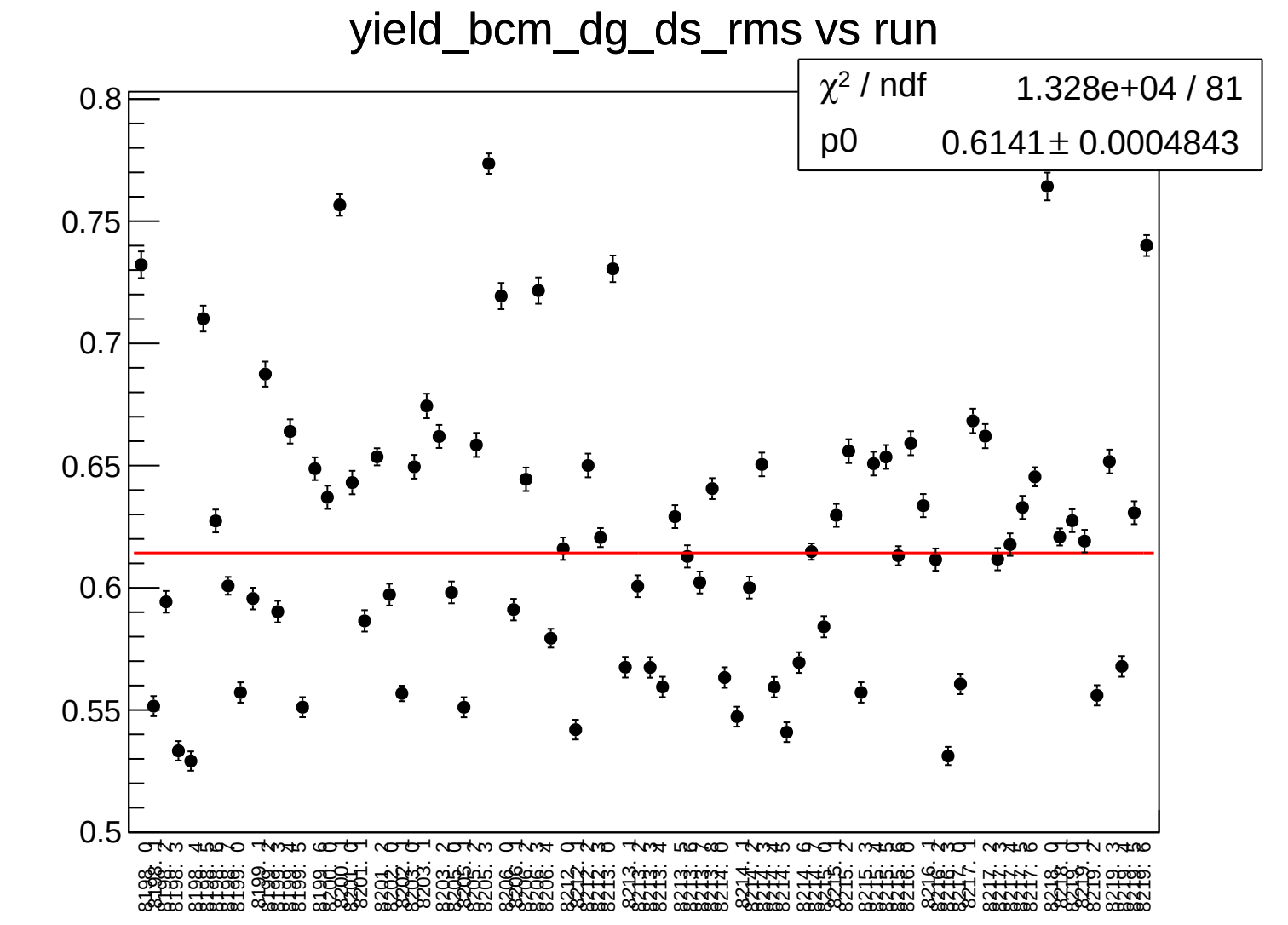

yield_bcm_an_us_rms vs run
χ² / ndf 6577 / 81
p0 0.5994 ± 0.0004717
0.7
0.65
0.6
0.55
0.5

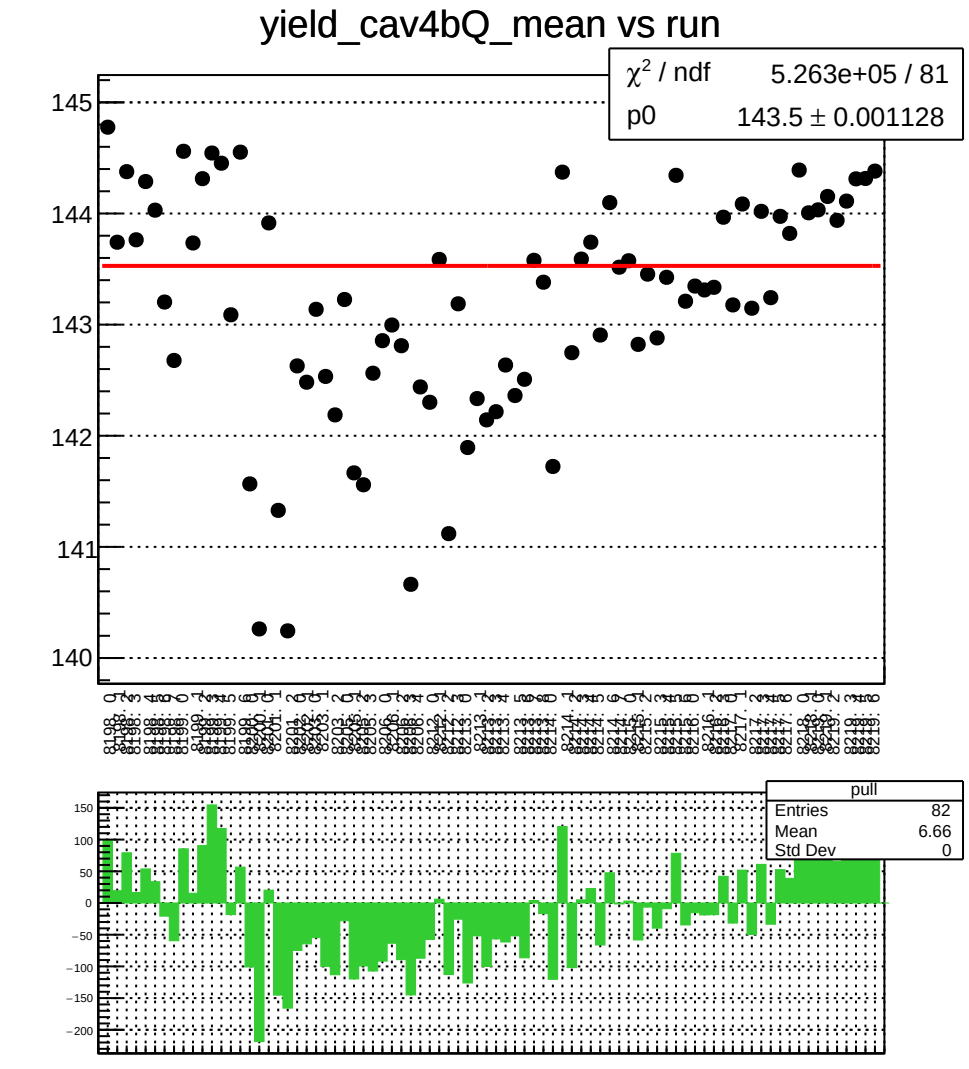

yield_bcm_dg_us_mean vs run
χ² / ndf 1.106e+06 / 81
p0 143.1± 0.0006794
144.5
144
143.5
143
142.5
142
141.5
141
pull
Entries 82
Mean 123.5
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 82
Mean 1.214
Std Dev 5.481
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

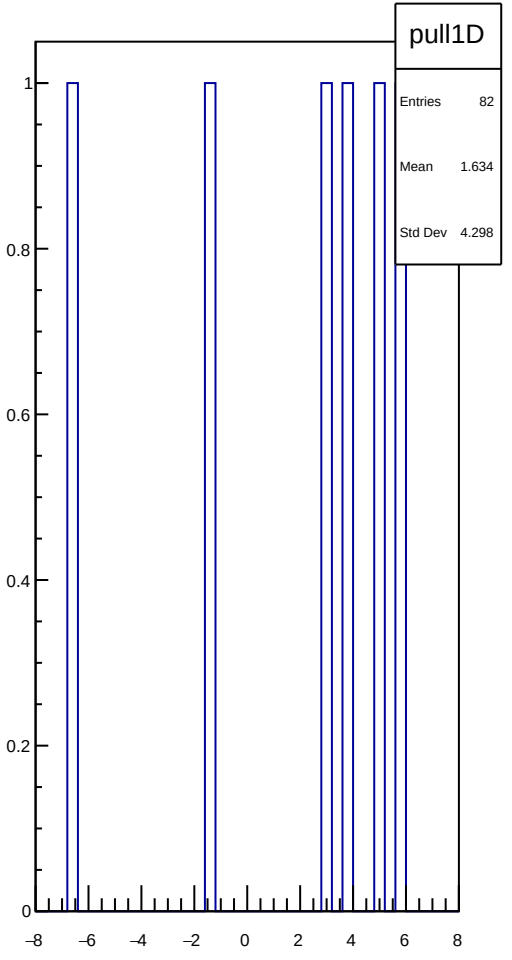

yield_bcm_dg_us_rms vs run
χ² / ndf 1.158e+04 / 81
p0 0.6095 ± 0.0004804
0.75
0.7
0.65
0.6
0.55
0.5

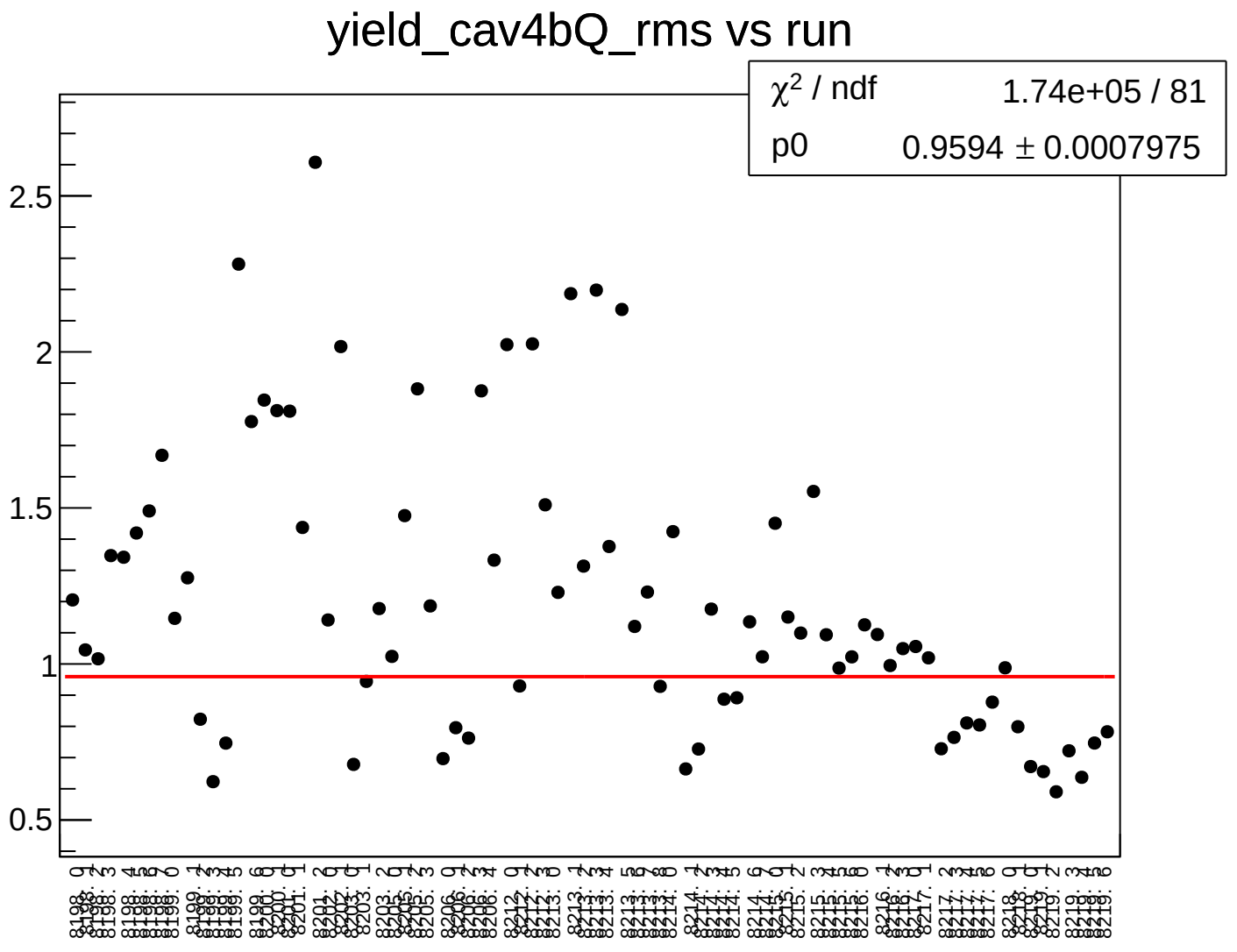

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.282e+06 / 81
p0 143 ± 0.0006849
144.5
144
143.5
143
142.5
142
141.5
141
140.5
pull
Entries 82
Mean 124.5
Std Dev 0
300
200
100
0
−100
−200
−300

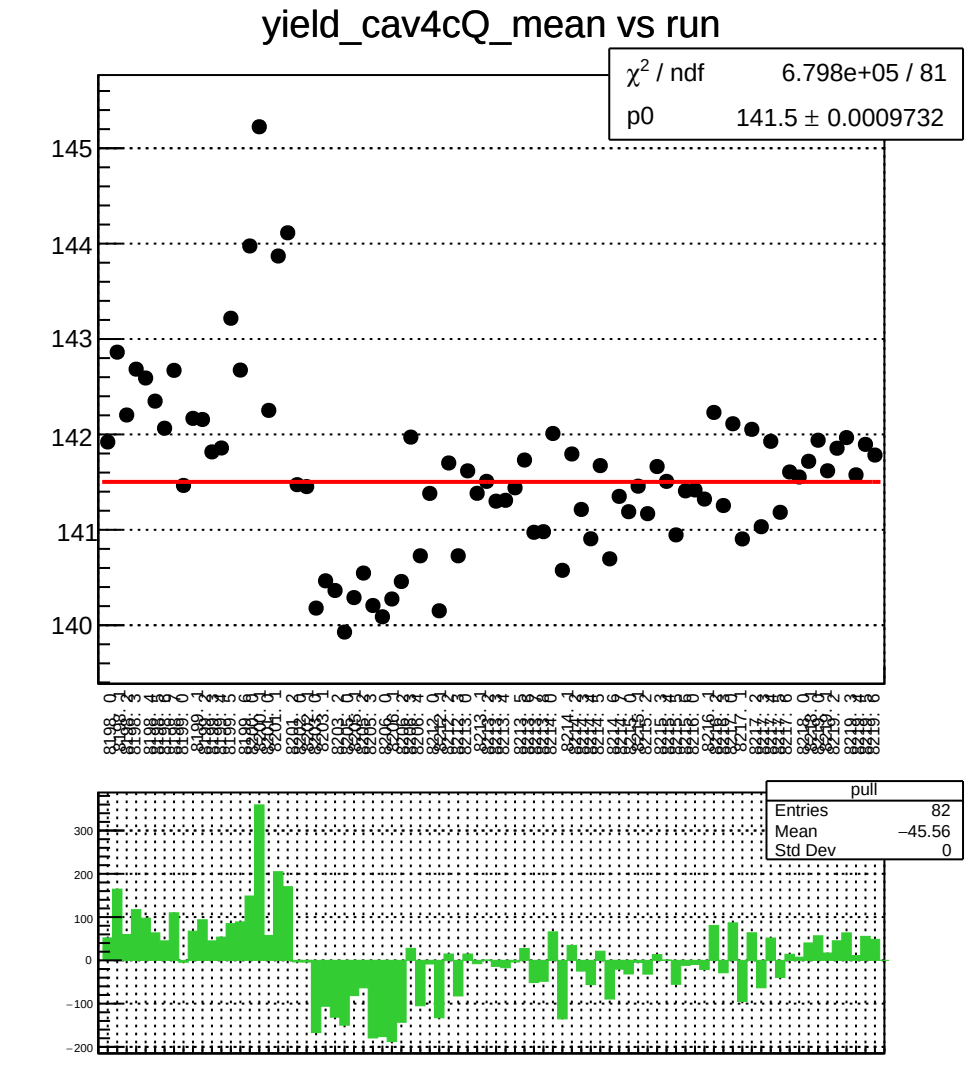

pull1D
Entries 82
Mean 0.8967
Std Dev 6.037
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

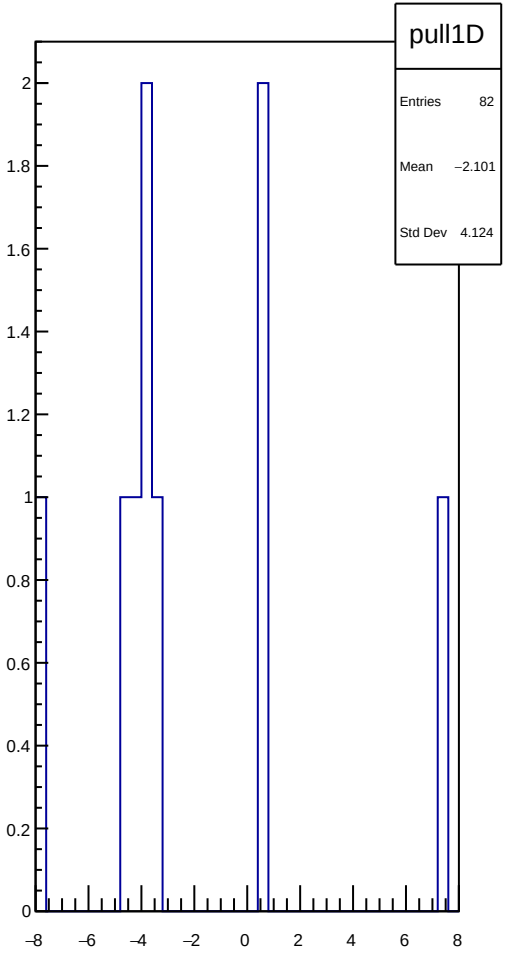

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.328e+04 / 81
p0 0.6141 ± 0.0004843
0.8
0.75
0.7
0.65
0.6
0.55
0.5

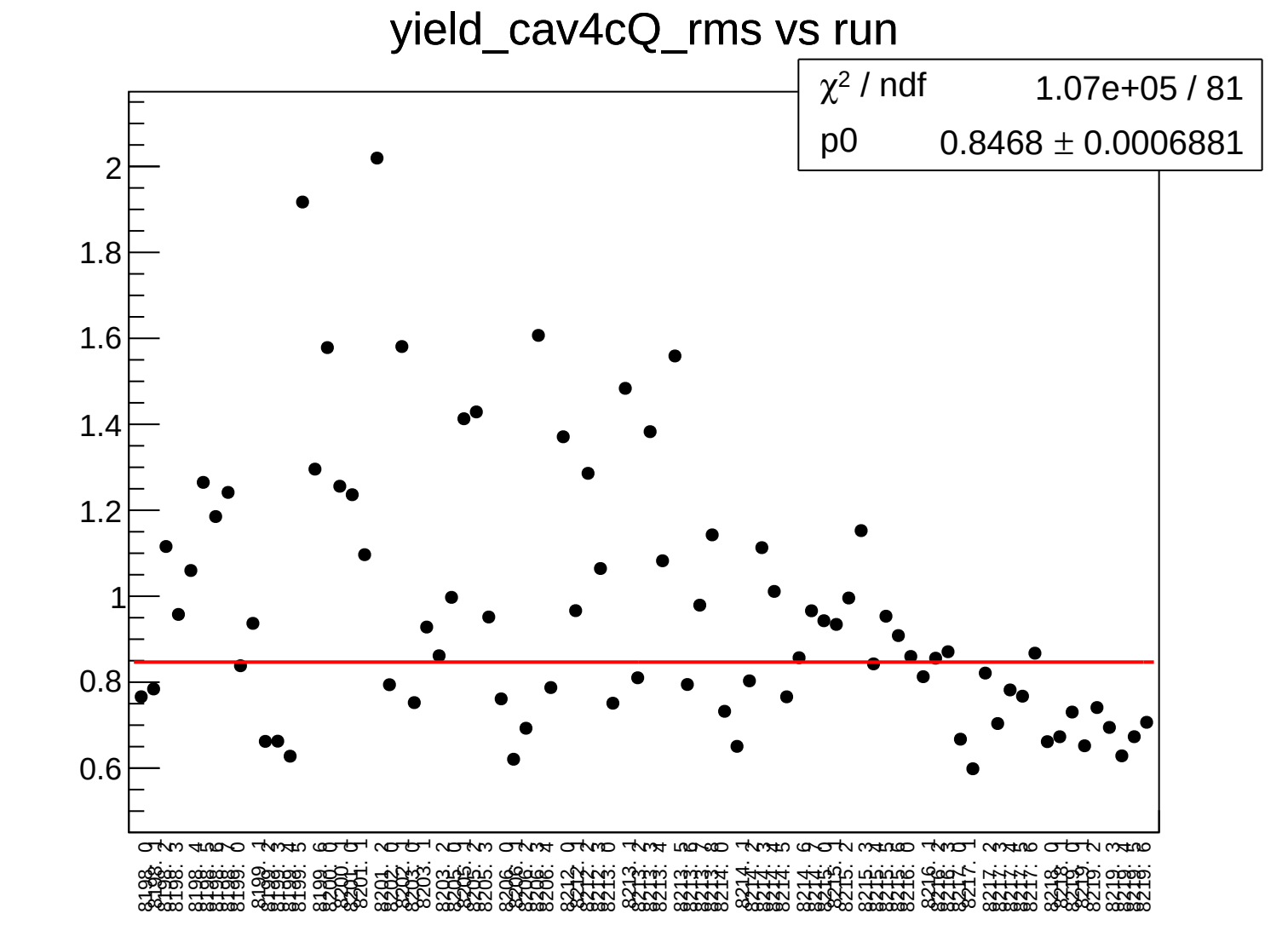

yield_cav4bQ_mean vs run
χ² / ndf 5.263e+05 / 81
p0 143.5 ± 0.001128
145
144
143
142
141
140
pull
Entries 82
Mean 6.66
Std Dev 0
150
100
50
0
−50
−100
−150
−200

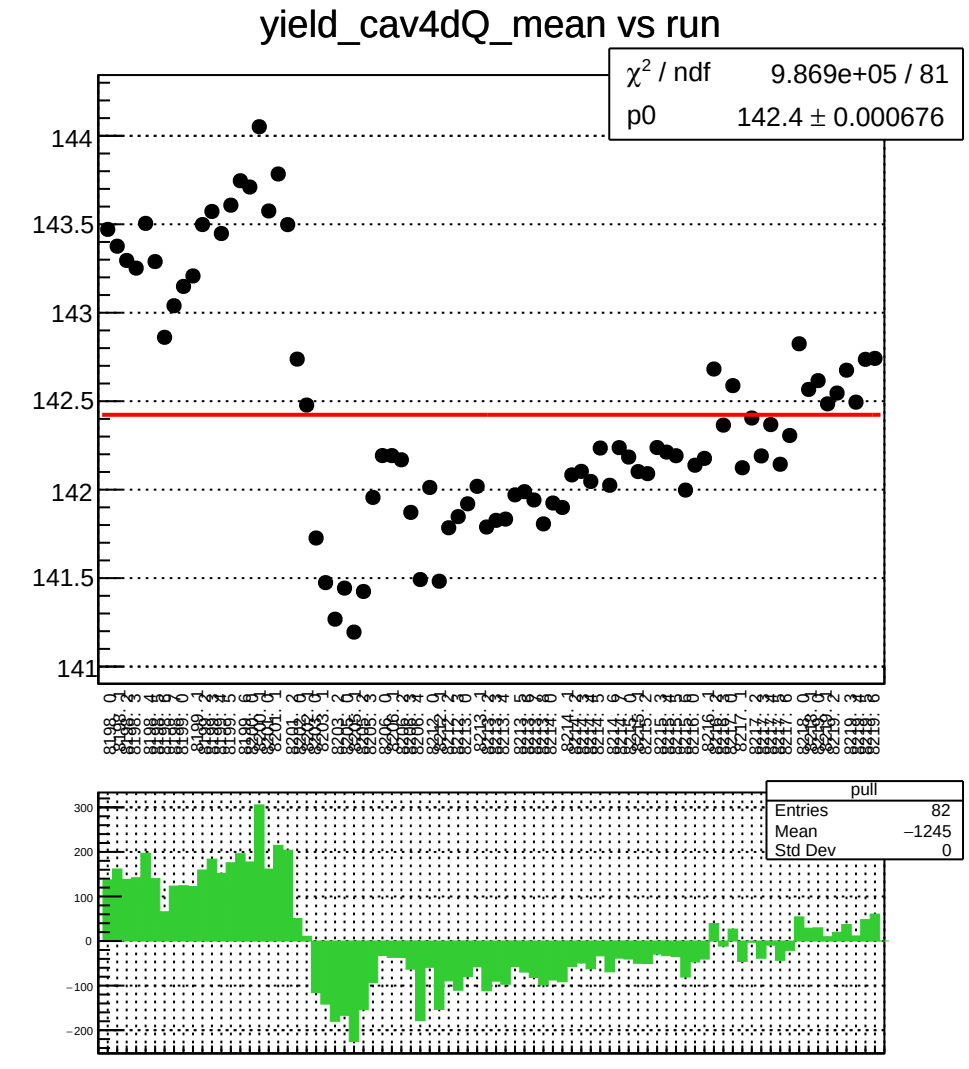

pull1D
Entries 82
Mean 1.634
Std Dev 4.298
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

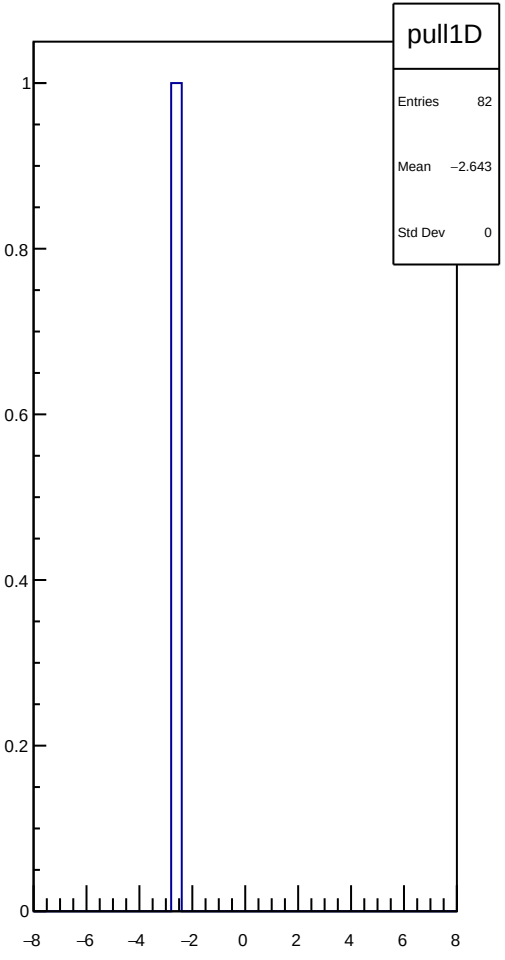

yield_cav4bQ_rms vs run
χ² / ndf 1.74e+05 / 81
p0 0.9594 ± 0.0007975
2.5
2
1.5
1
0.5

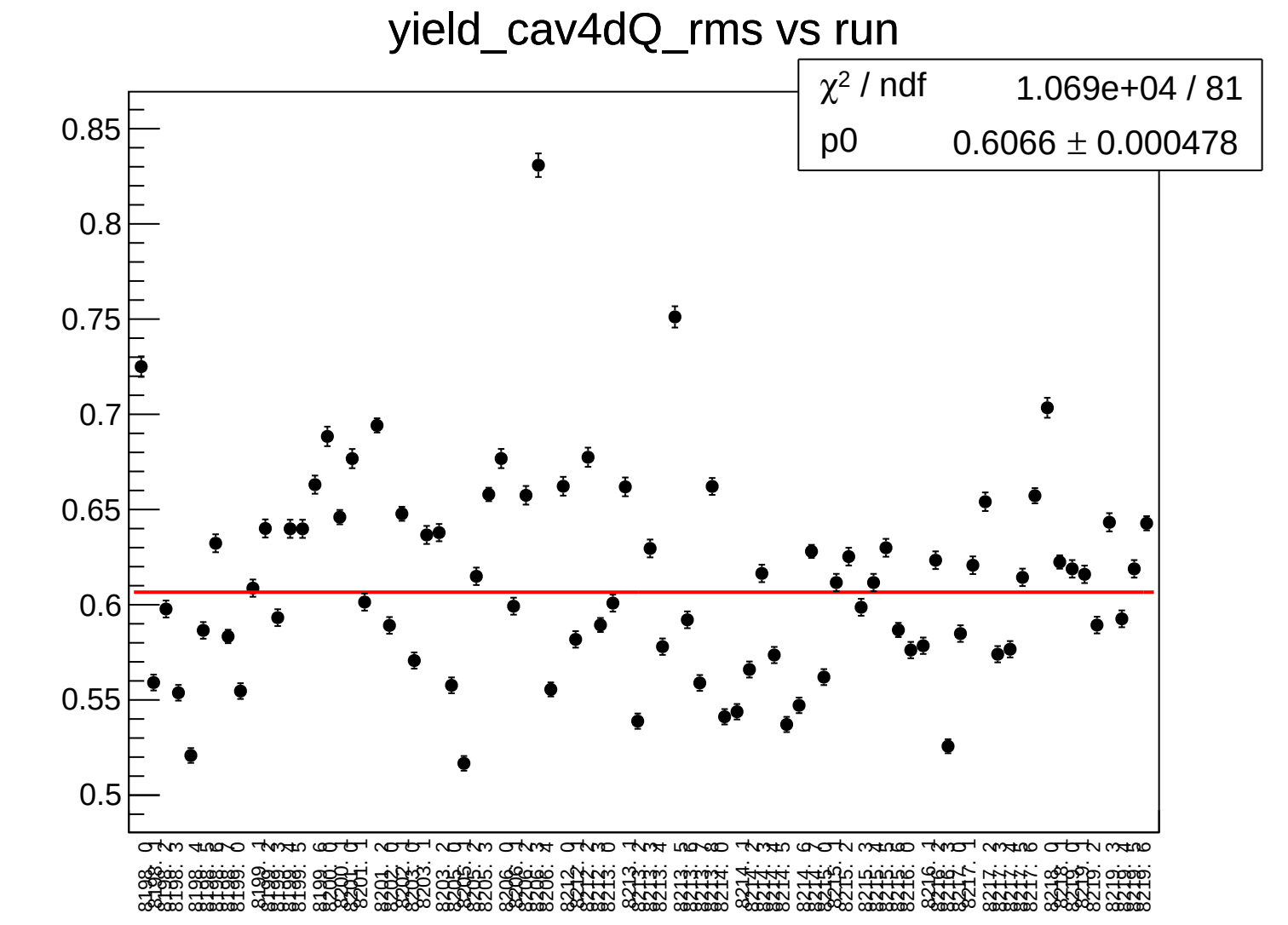

yield_cav4cQ_mean vs run
χ² / ndf 6.798e+05 / 81
p0 141.5 ± 0.0009732
145
144
143
142
141
140
pull
Entries 82
Mean −45.56
Std Dev 0
300
200
100
0
−100
−200

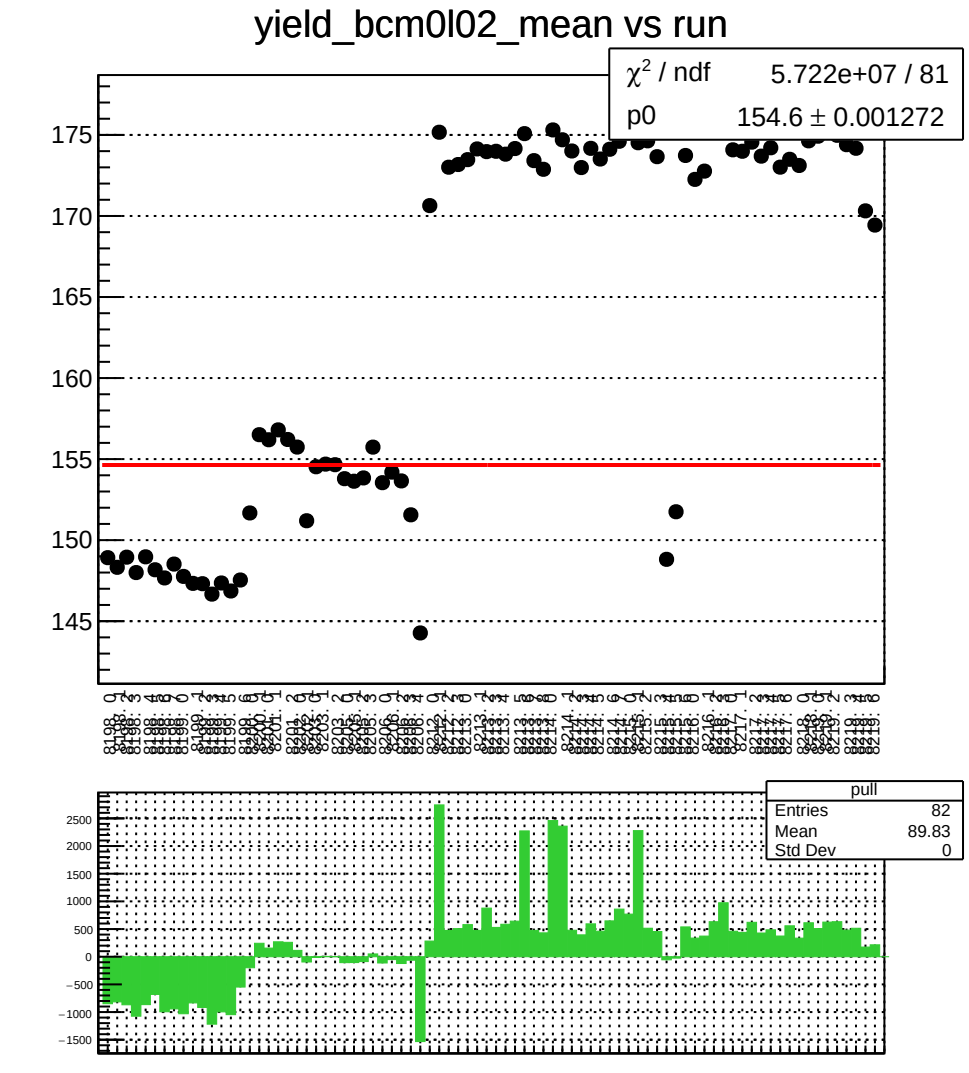

pull1D
Entries 82
Mean −2.101
Std Dev 4.124
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

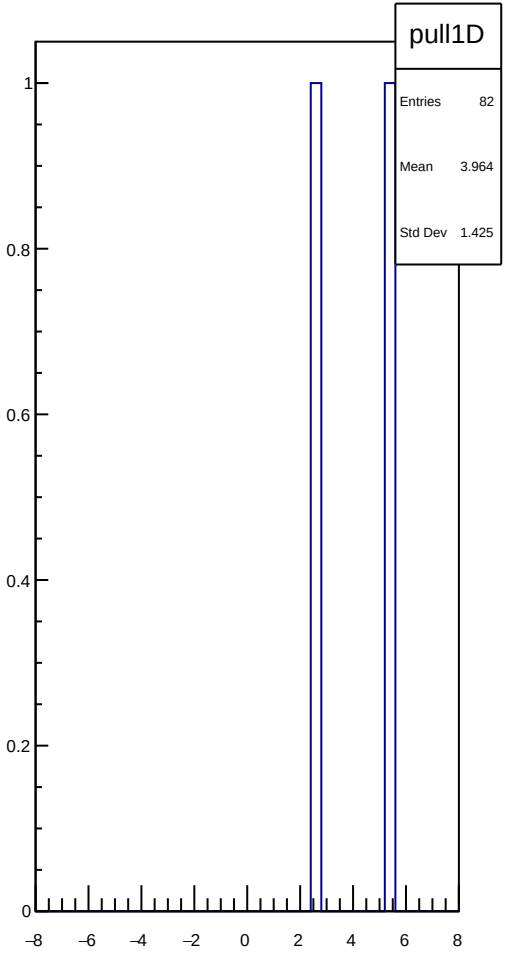

yield_cav4cQ_rms vs run
χ² / ndf 1.07e+05 / 81
p0 0.8468 ± 0.0006881
2
1.8
1.6
1.4
1.2
1
0.8
0.6

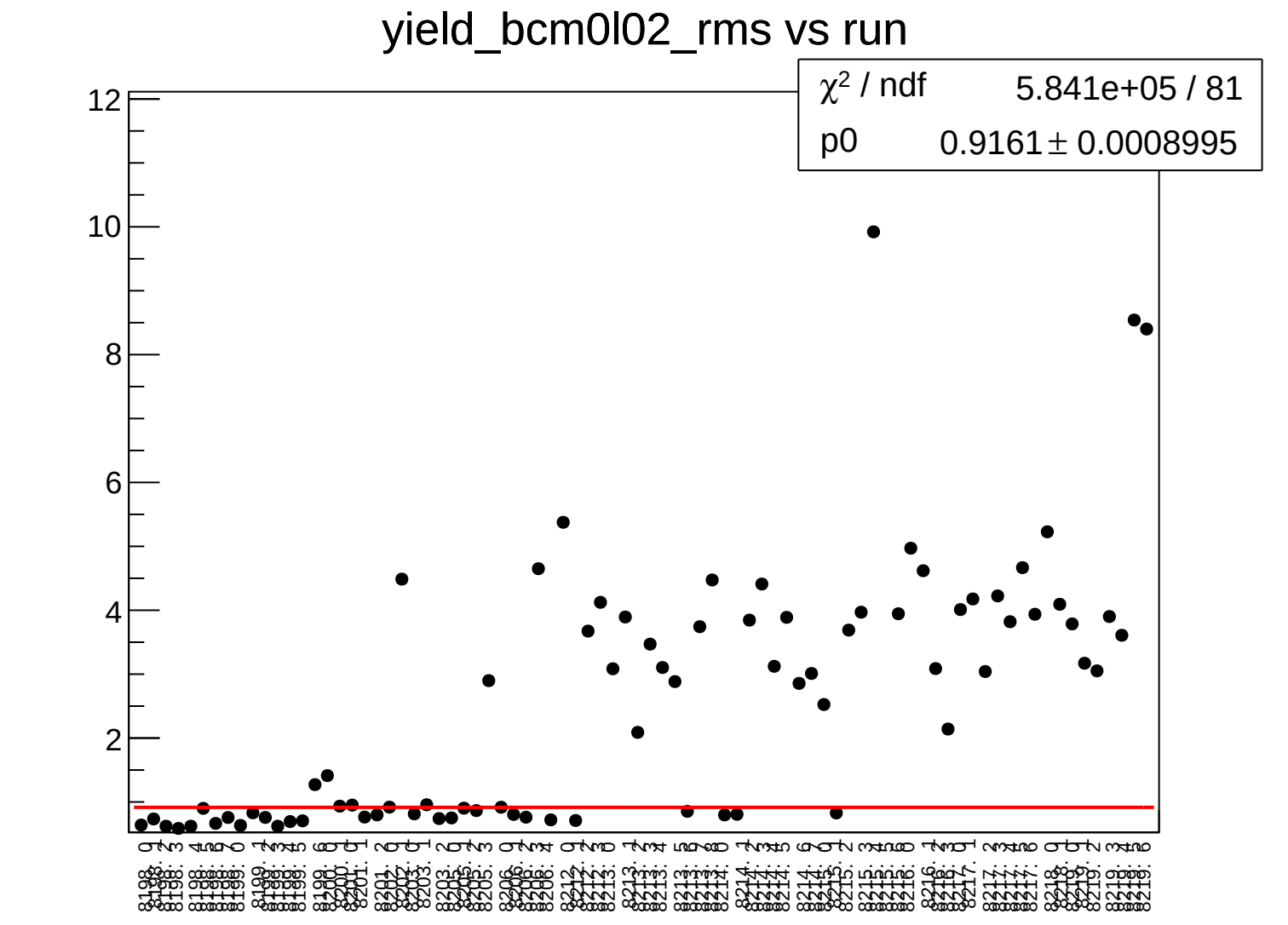

yield_cav4dQ_mean vs run
χ² / ndf 9.869e+05 / 81
p0 142.4 ± 0.000676
144
143.5
143
142.5
142
141.5
141
pull
Entries 82
Mean −1245
Std Dev 0
300
200
100
0
−100
−200

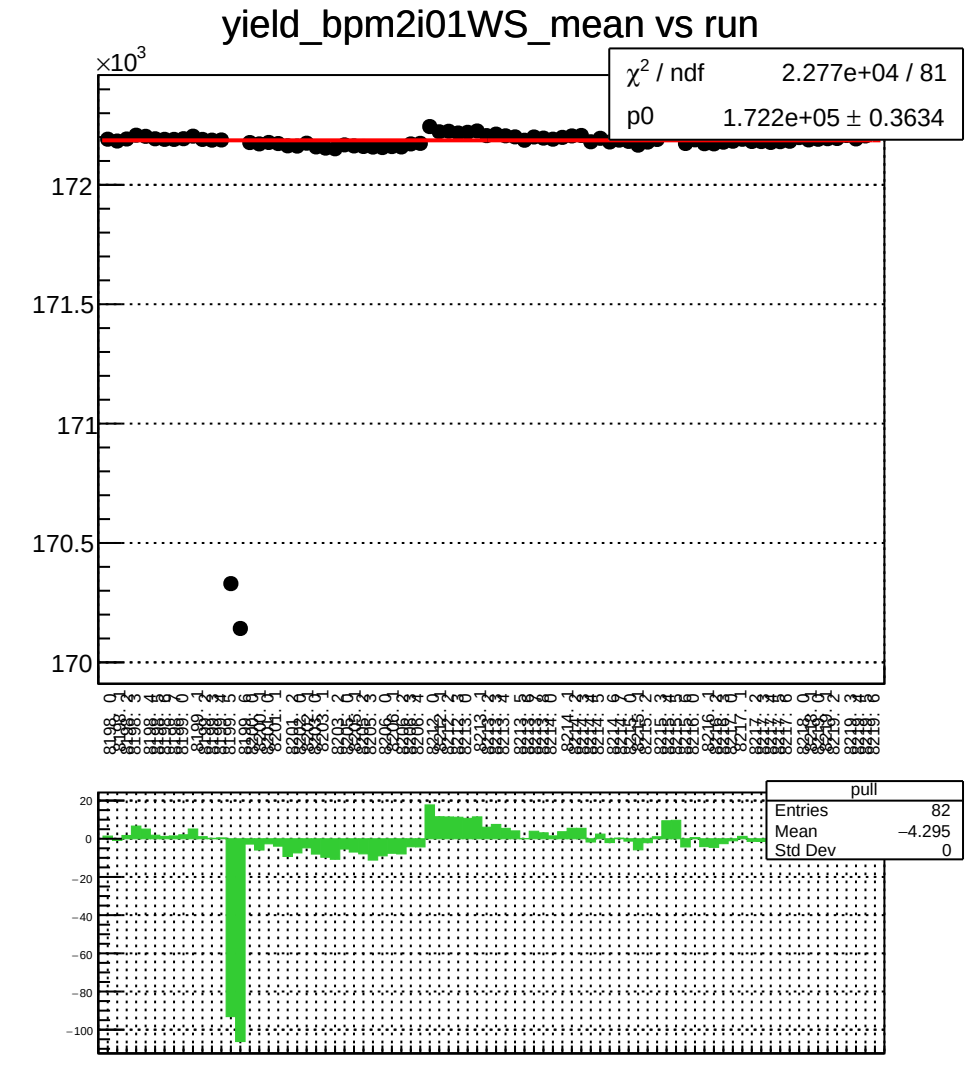

pull1D
Entries 82
Mean −2.643
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

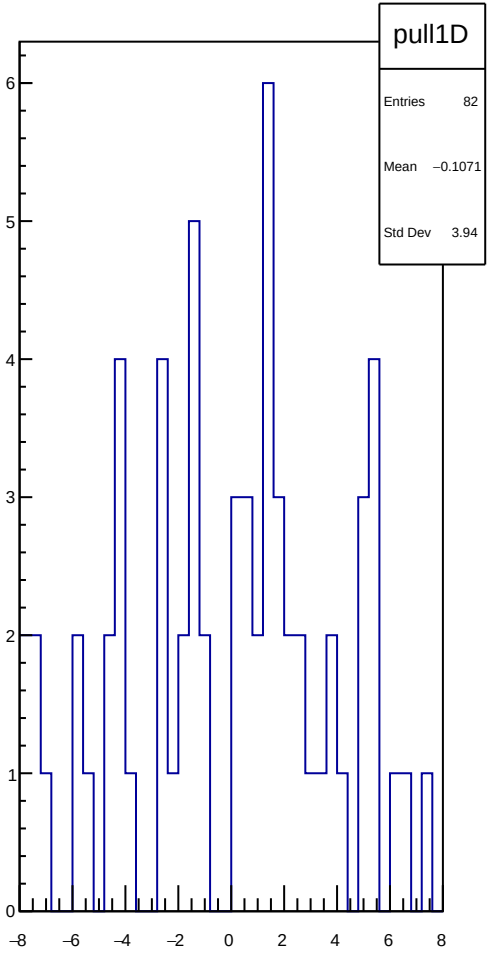

yield_cav4dQ_rms vs run
χ² / ndf 1.069e+04 / 81
p0 0.6066 ± 0.000478
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5

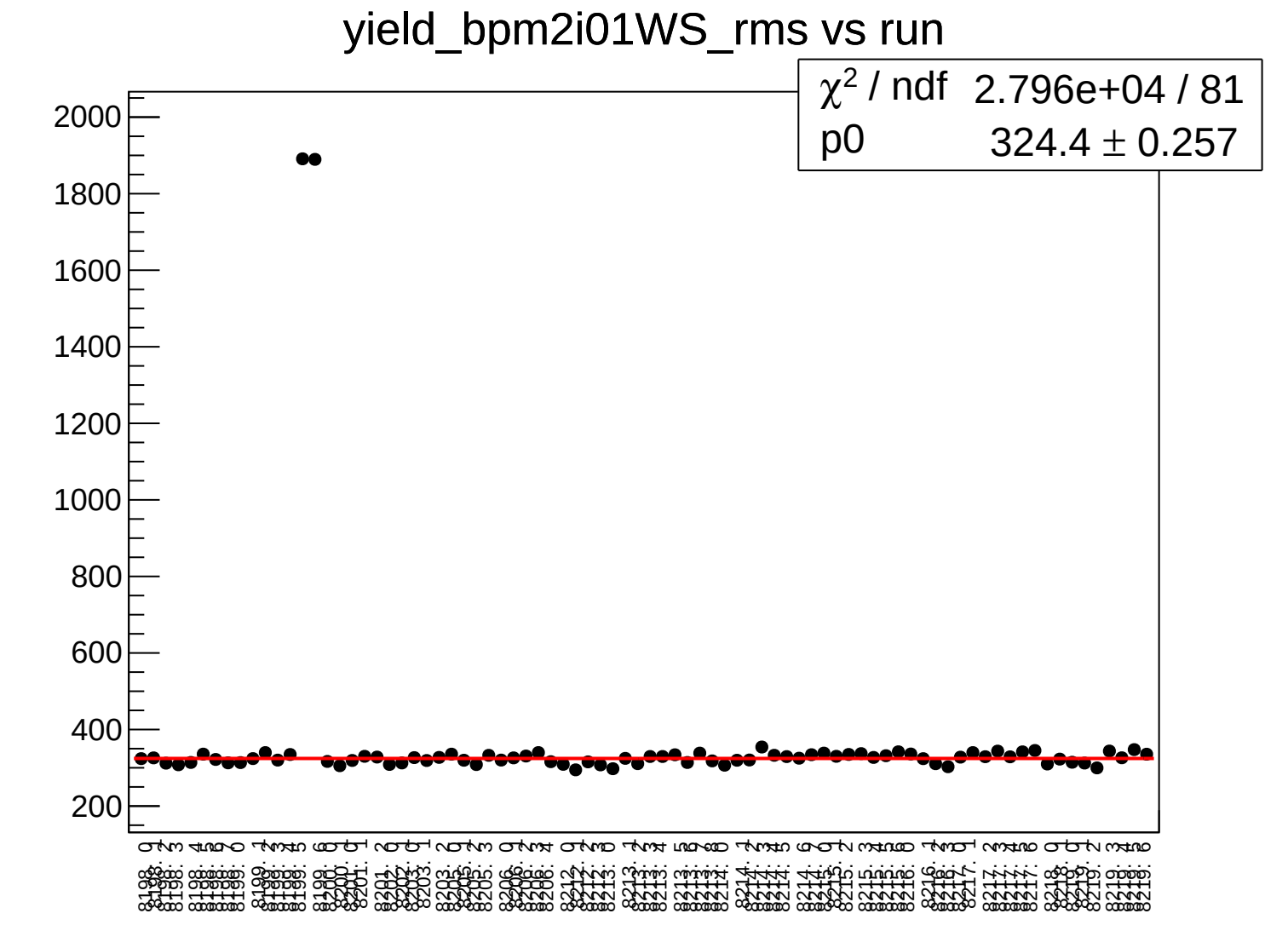

yield_bcm0l02_mean vs run
χ² / ndf 5.722e+07 / 81
p0 154.6 ± 0.001272
175
170
165
160
155
150
145
pull
Entries 82
Mean 89.83
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000
−1500

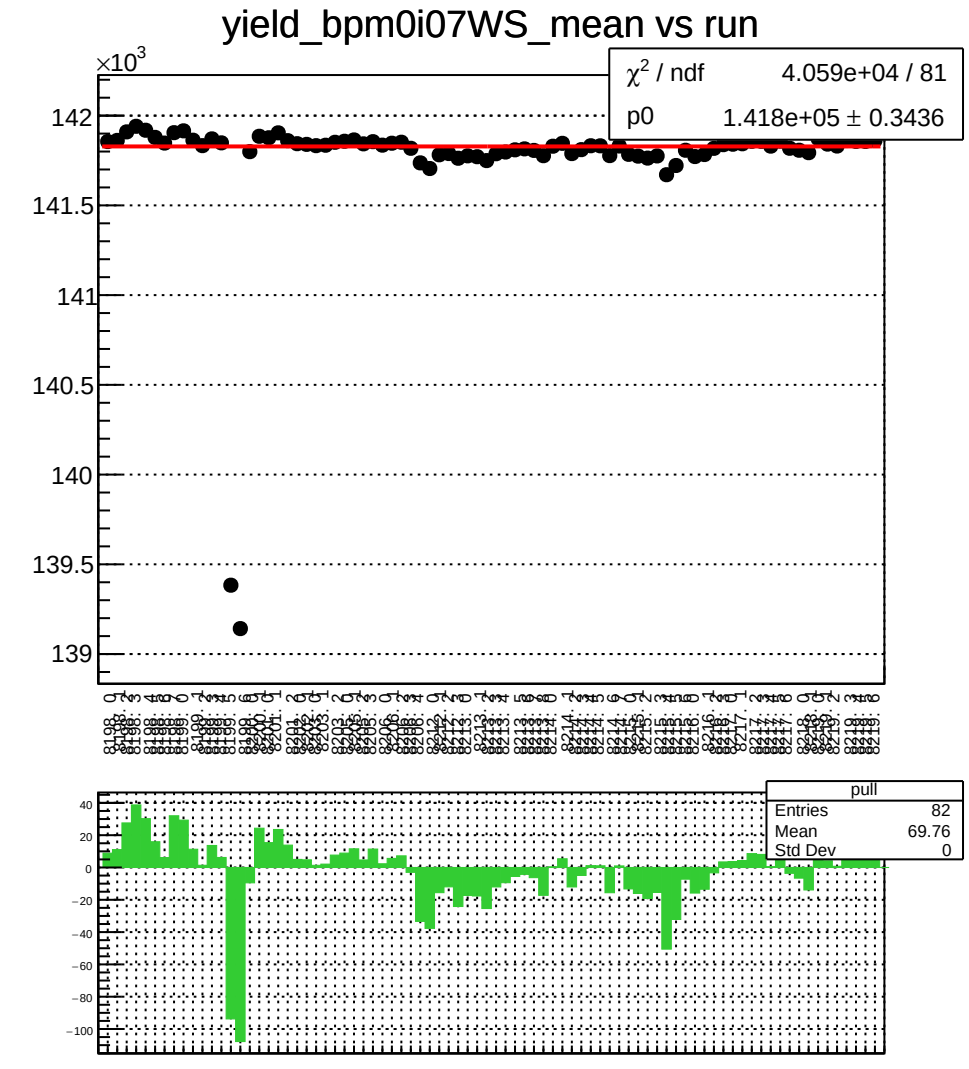

pull1D
Entries 82
Mean 3.964
Std Dev 1.425
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

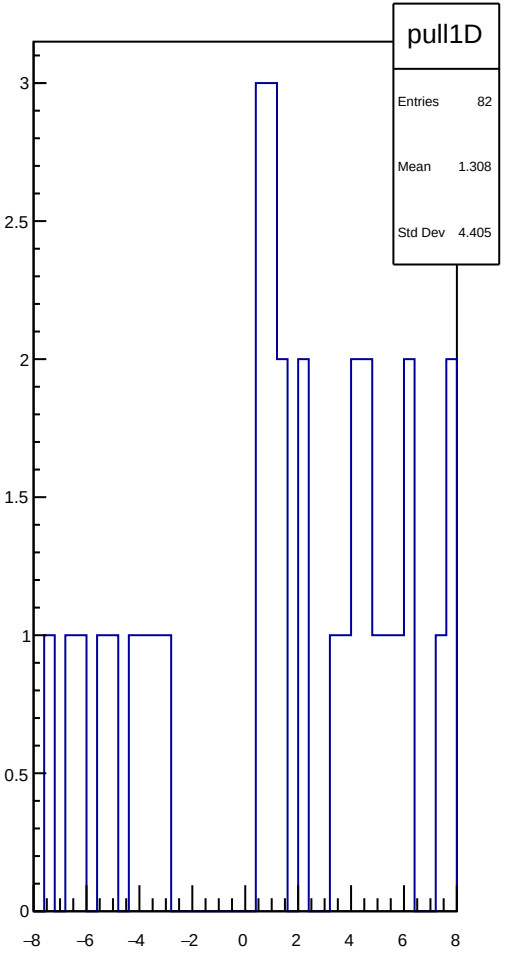

yield_bcm0l02_rms vs run
χ² / ndf 5.841e+05 / 81
p0 0.9161 ± 0.0008995
12
10
8
6
4
2

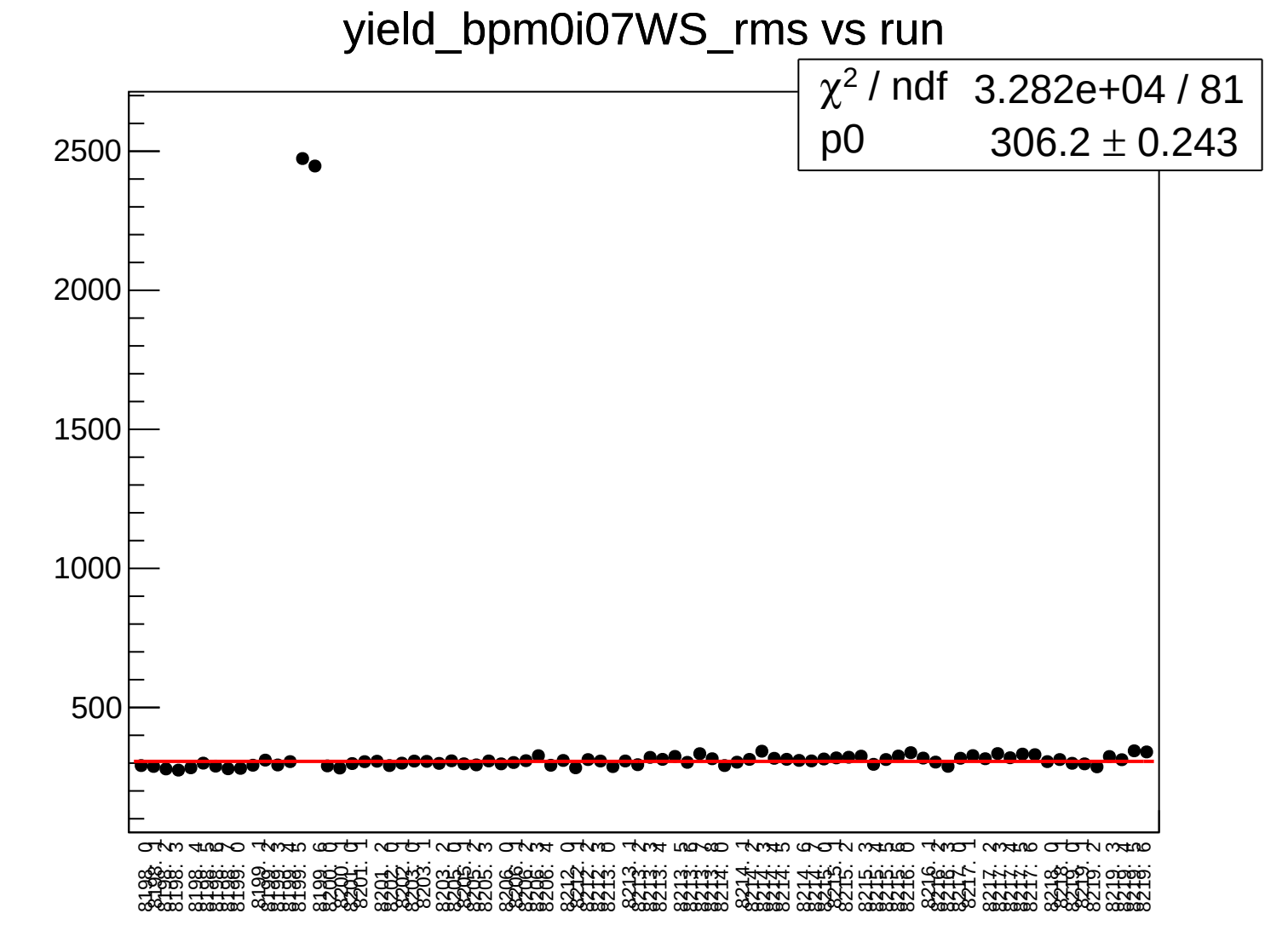

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.277e+04 / 81
p0 1.722e+05 ± 0.3634
172
171.5
171
170.5
170
pull
Entries 82
Mean −4.295
Std Dev 0
20
0
−20
−40
−60
−80
−100

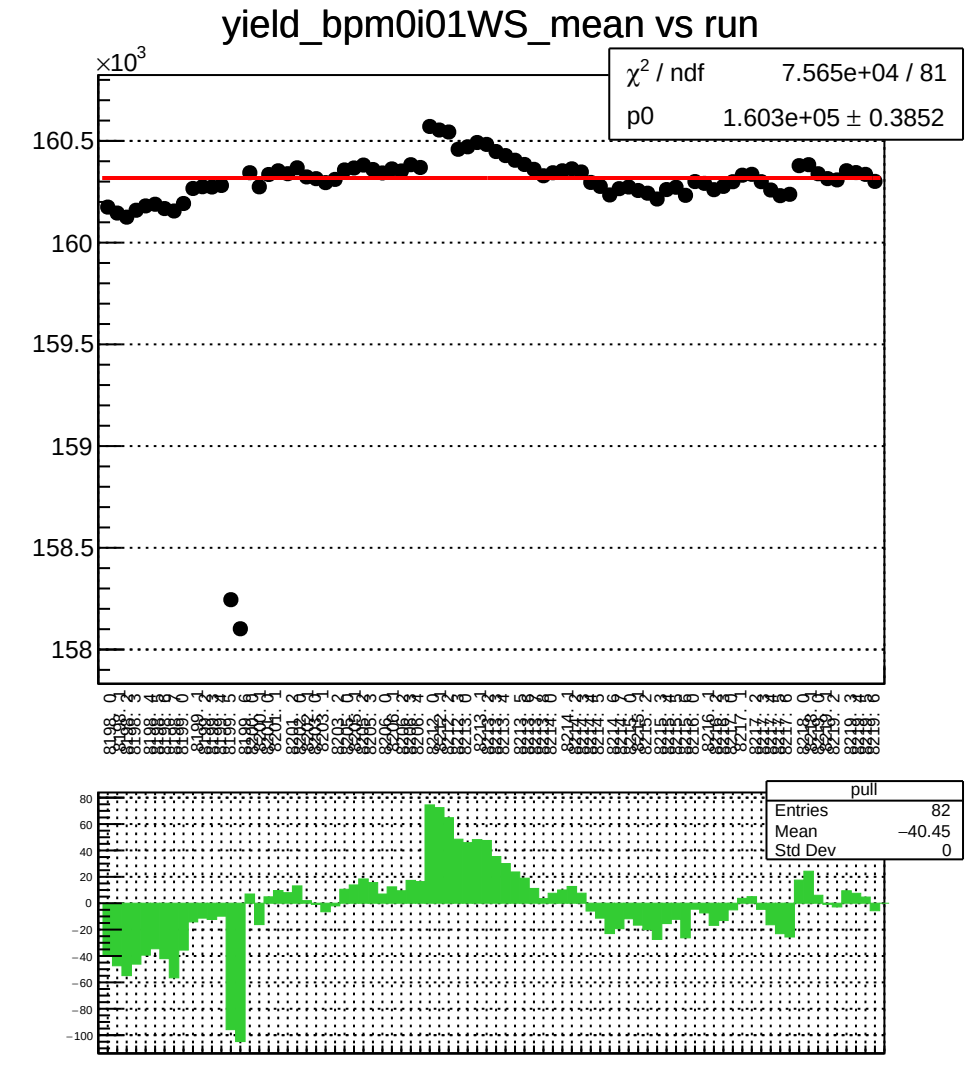

pull1D
Entries 82
Mean −0.1071
Std Dev 3.94
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

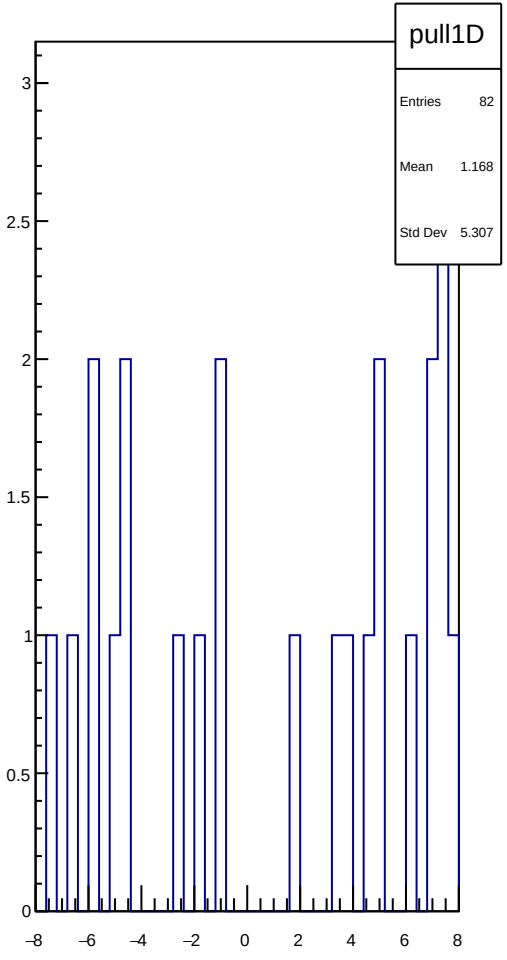

yield_bpm2i01WS_rms vs run
χ² / ndf 2.796e+04 / 81
p0 324.4 ± 0.257
2000
1800
1600
1400
1200
1000
800
600
400
200

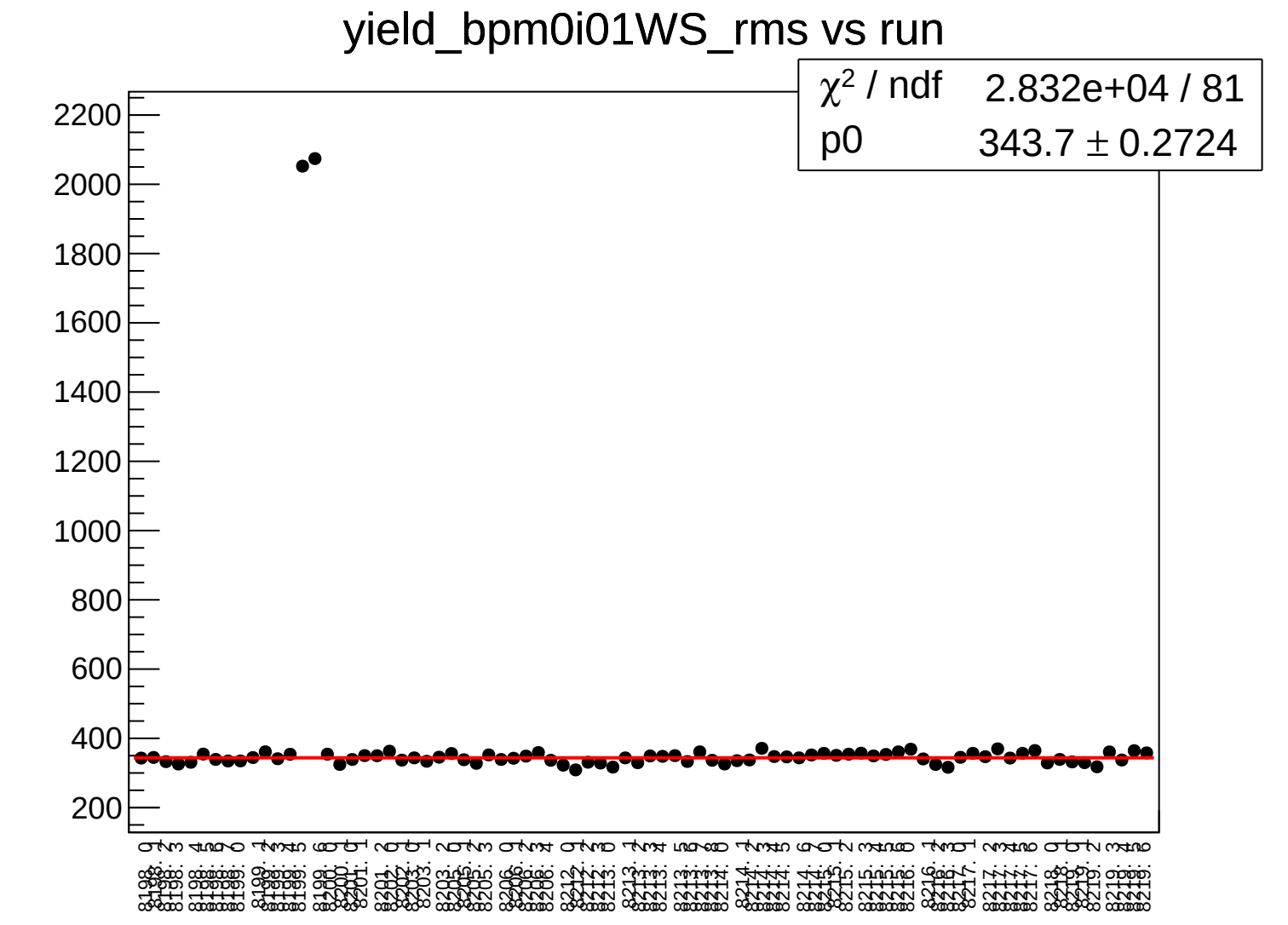

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 4.059e+04 / 81
p0 1.418e+05 ± 0.3436
142
141.5
141
140.5
140
139.5
139
pull
Entries 82
Mean 69.76
Std Dev 0
40
20
0
−20
−40
−60
−80
−100

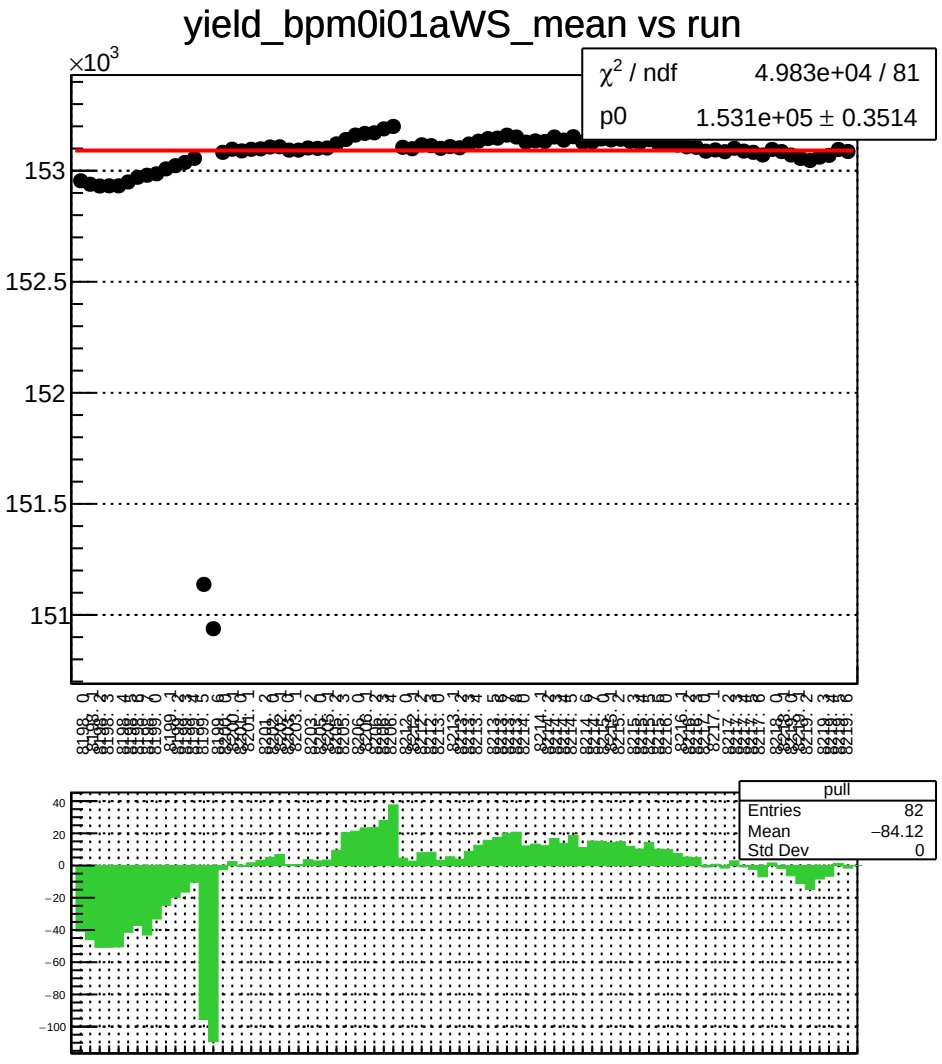

pull1D
Entries 82
Mean 1.308
Std Dev 4.405
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

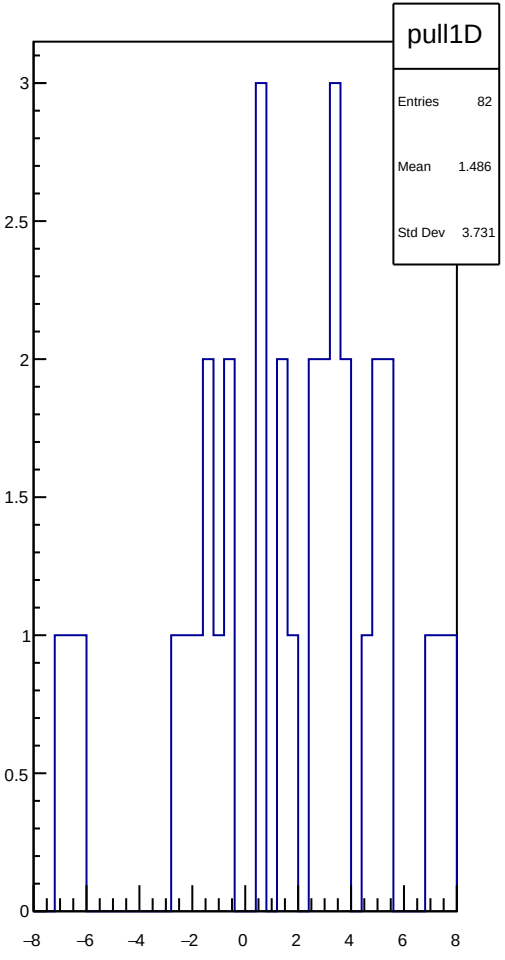

yield_bpm0i07WS_rms vs run
χ² / ndf 3.282e+04 / 81
p0 306.2 ± 0.243
2500
2000
1500
1000
500

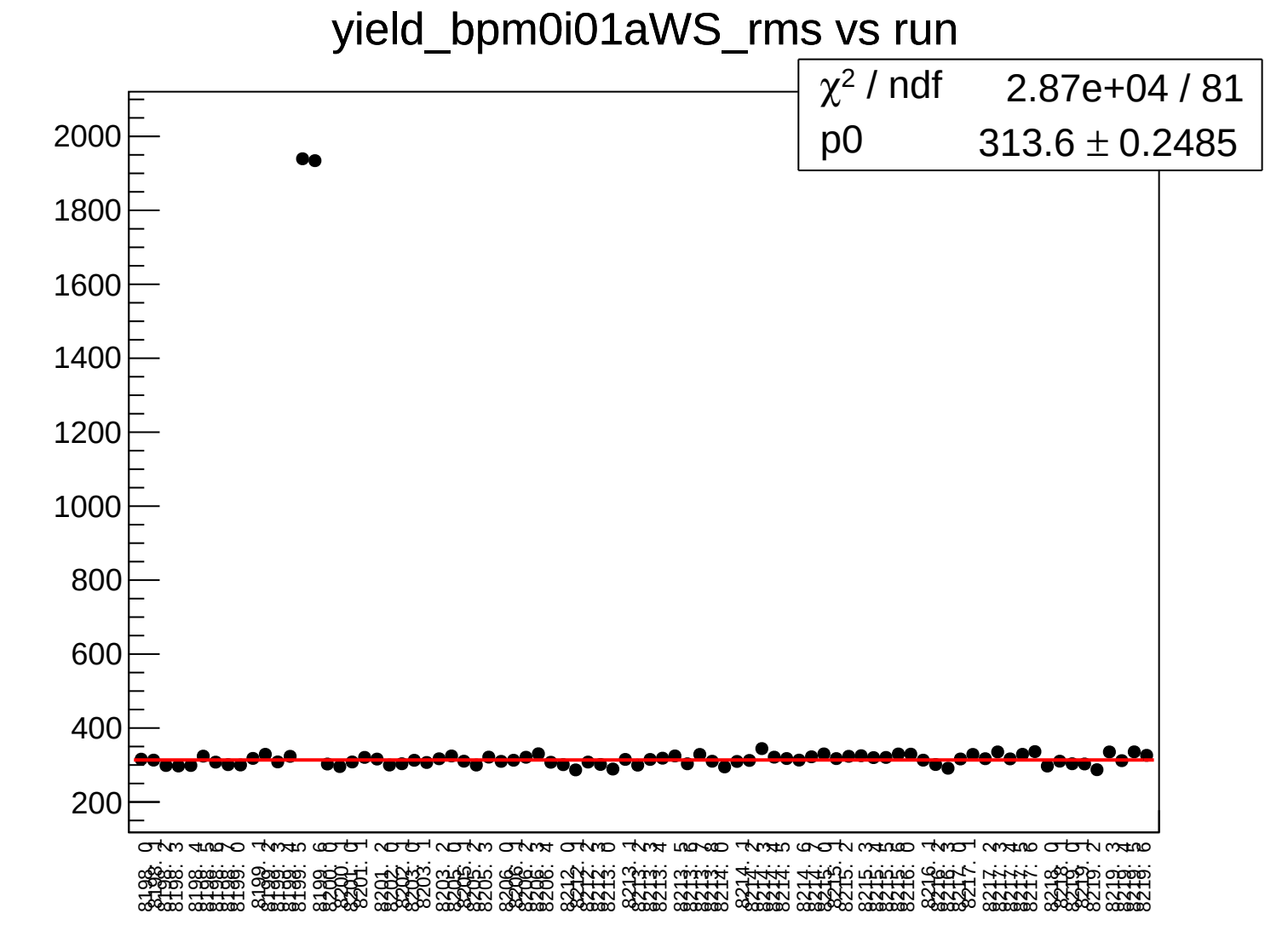

yield_bpm0i01WS_mean vs run
$\chi^2$ / ndf 7.565e+04 / 81
p0 1.603e+05 ± 0.3852
×10^3
160.5
160
159.5
159
158.5
158
pull
Entries 82
Mean −40.45
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

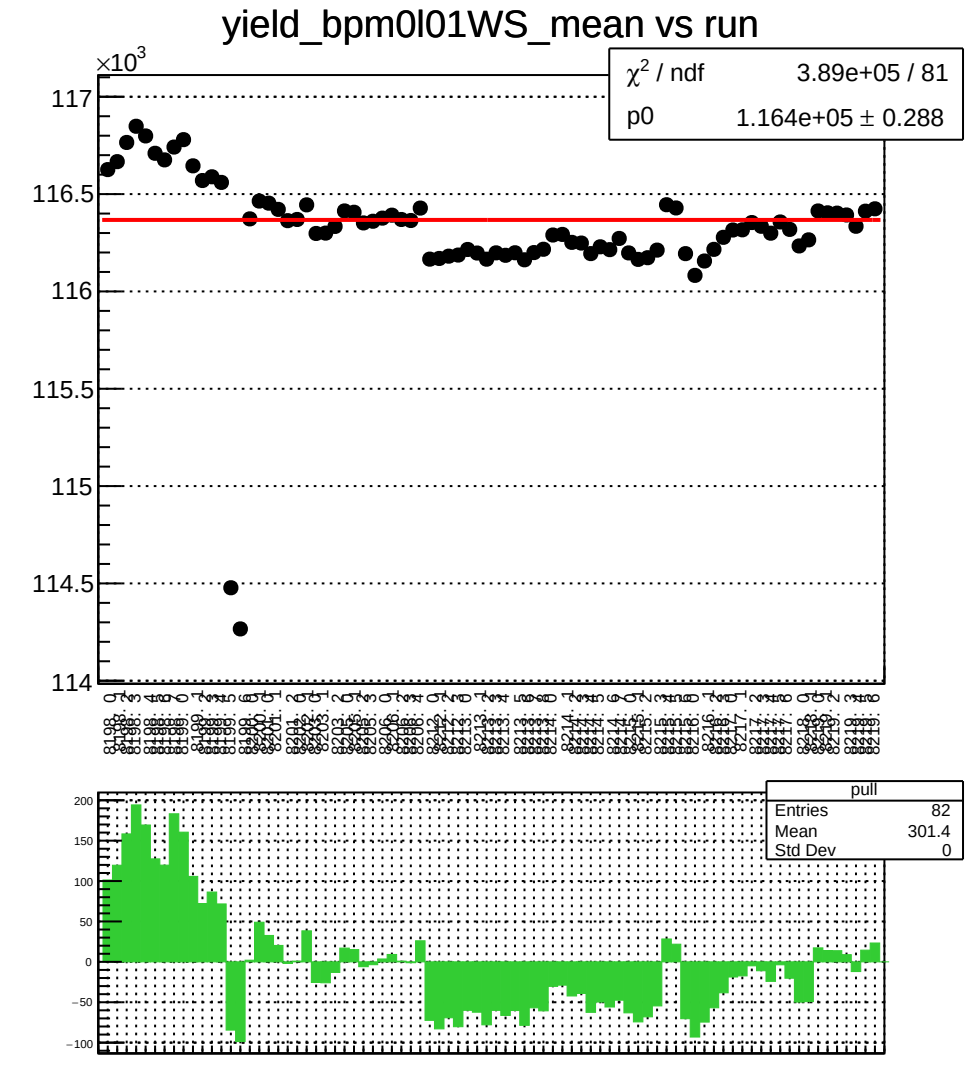

pull1D
Entries 82
Mean 1.168
Std Dev 5.307
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

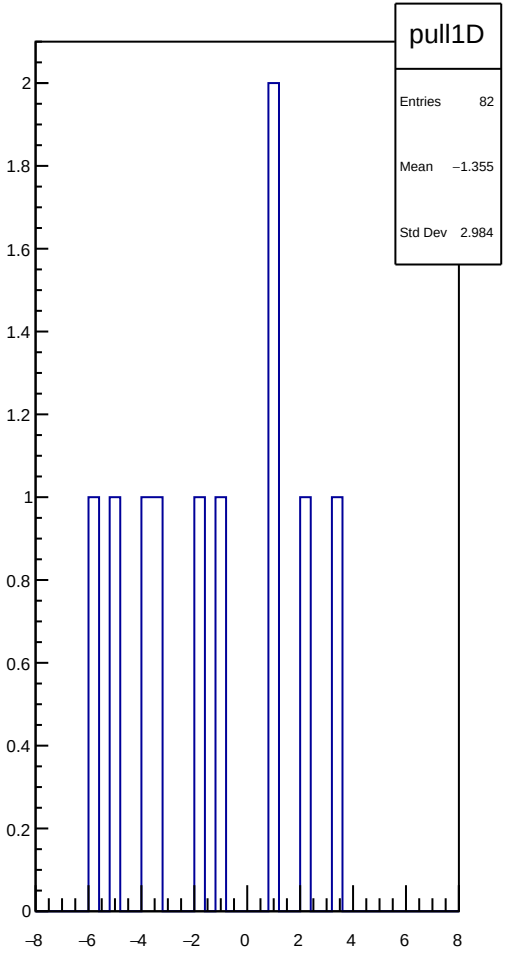

yield_bpm0i01WS_rms vs run
χ² / ndf 2.832e+04 / 81
p0 343.7 ± 0.2724
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

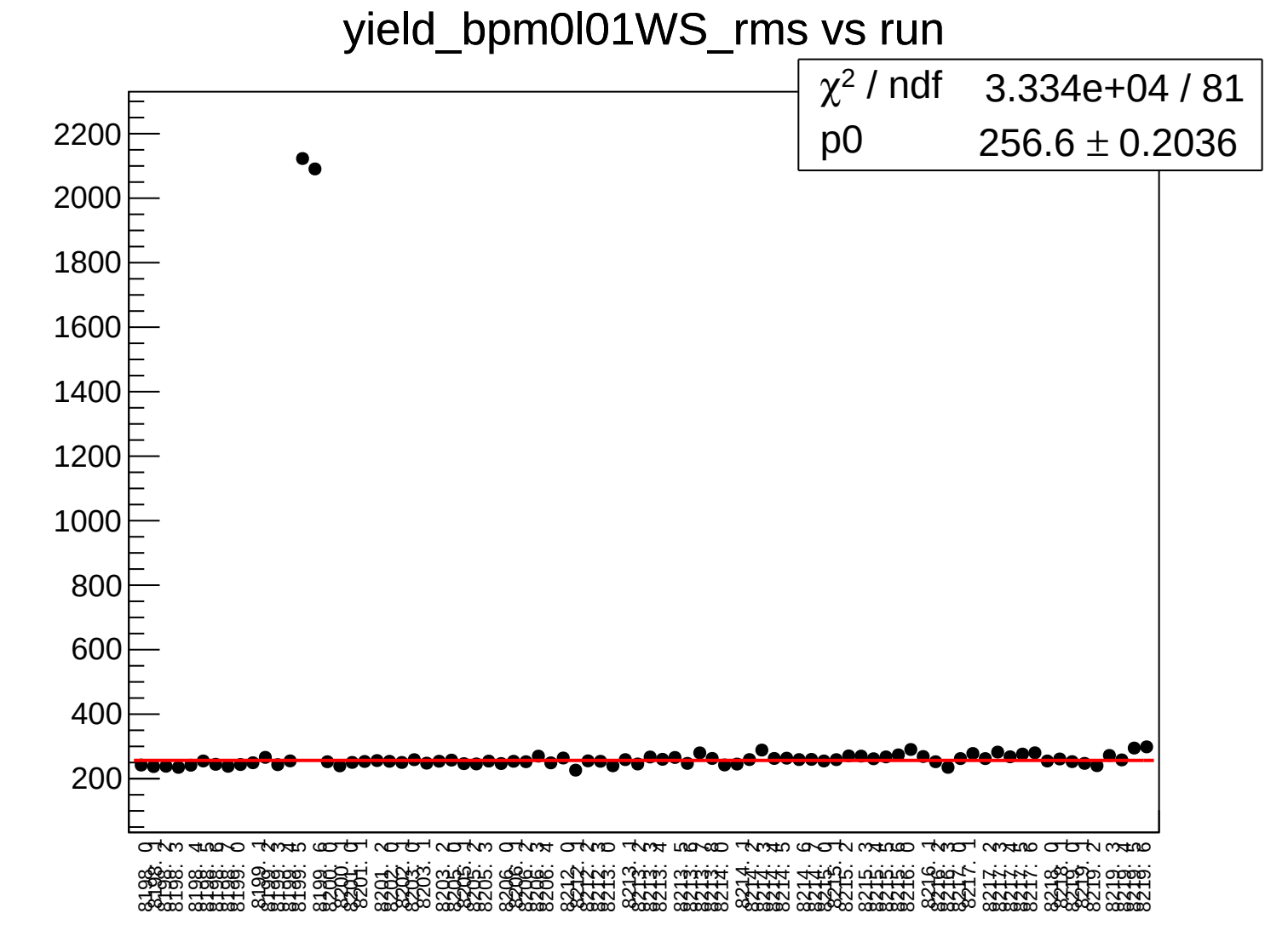

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 4.983e+04 / 81
p0 1.531e+05 ± 0.3514
153
152.5
152
151.5
151
pull
Entries 82
Mean −84.12
Std Dev 0
40
20
0
−20
−40
−60
−80
−100

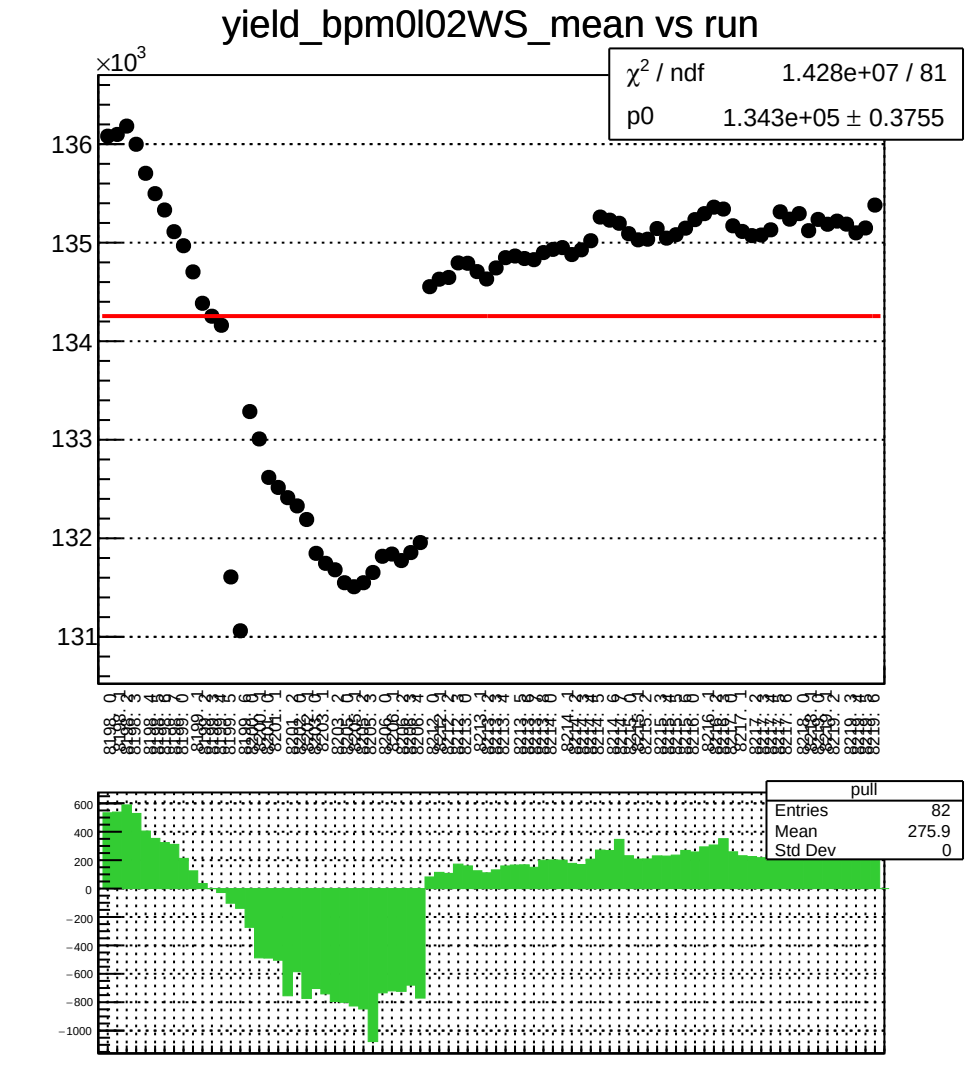

pull1D
Entries 82
Mean 1.486
Std Dev 3.731
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

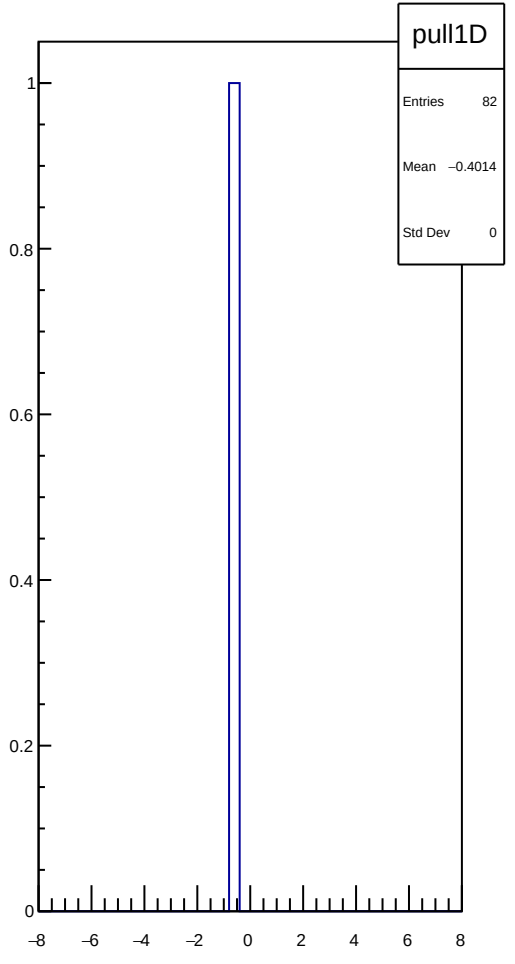

yield_bpm0i01aWS_rms vs run
χ² / ndf 2.87e+04 / 81
p0 313.6 ± 0.2485
2000
1800
1600
1400
1200
1000
800
600
400
200

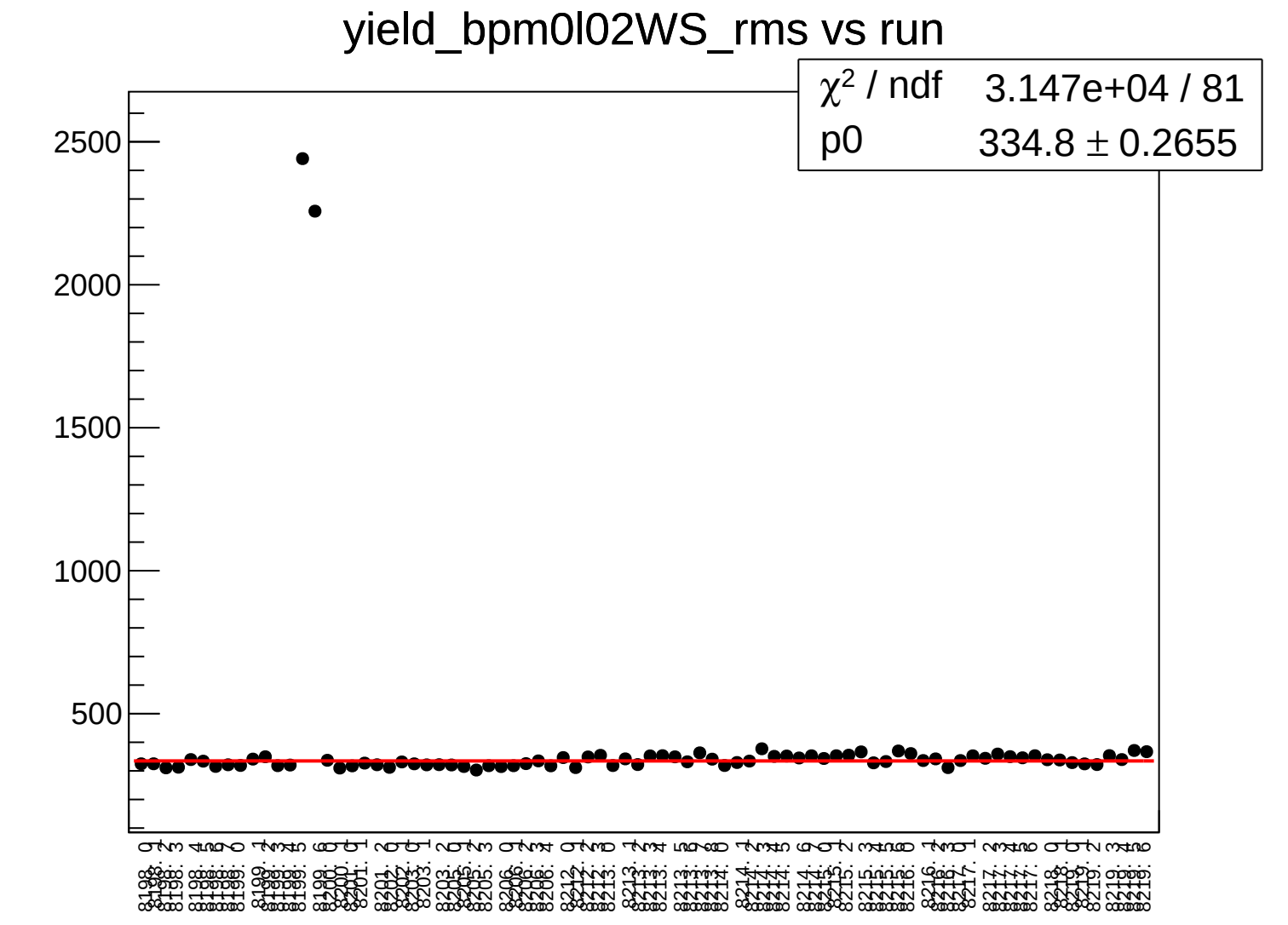

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 3.89e+05 / 81
p0 1.164e+05 ± 0.288
117
116.5
116
115.5
115
114.5
114
pull
Entries 82
Mean 301.4
Std Dev 0
200
150
100
50
0
−50
−100

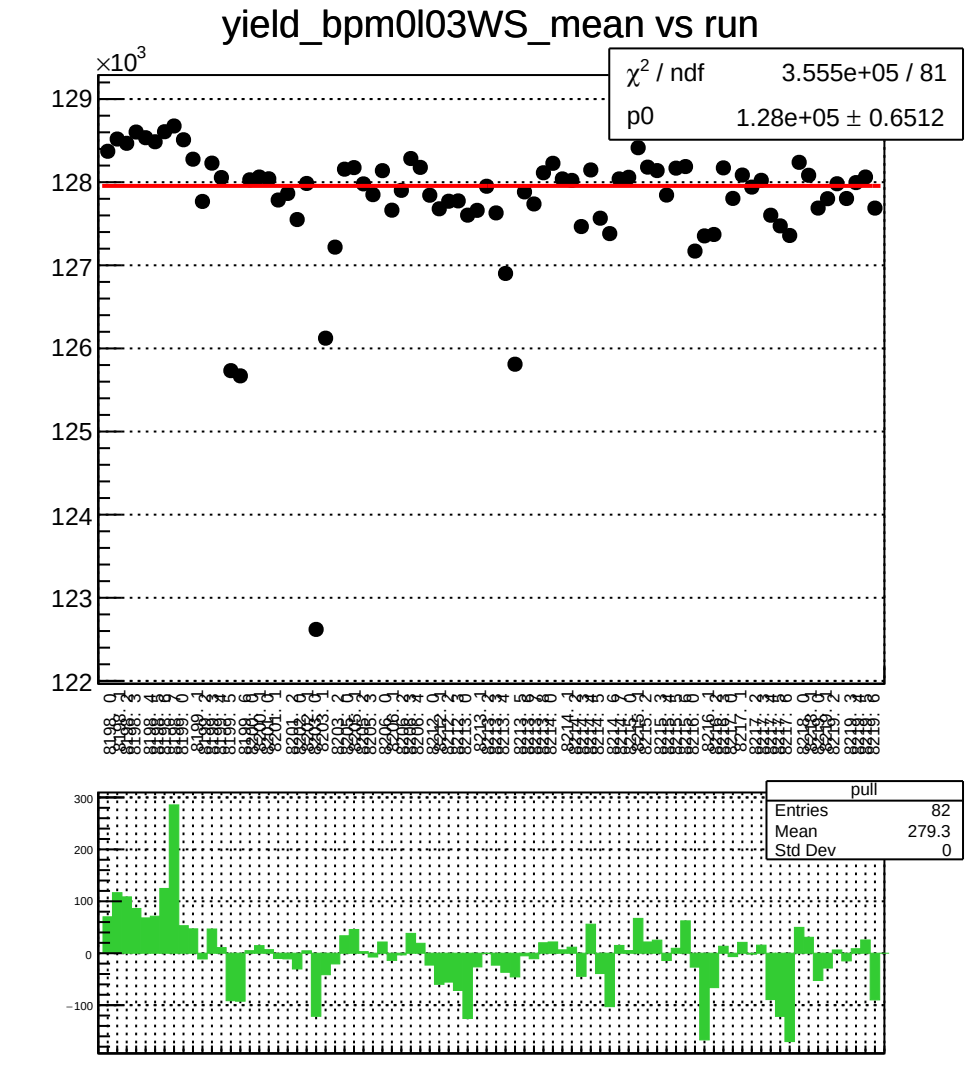

pull1D
Entries 82
Mean −1.355
Std Dev 2.984
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

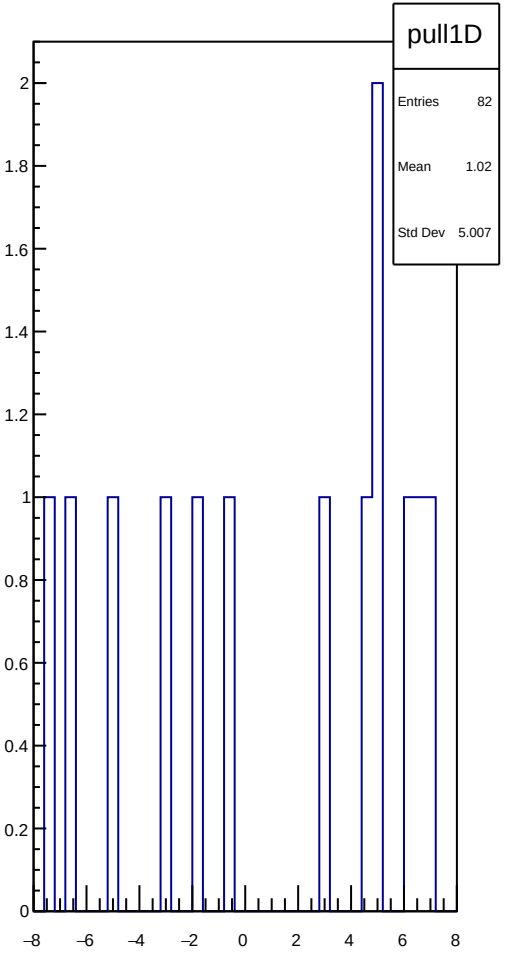

yield_bpm0l01WS_rms vs run
χ² / ndf 3.334e+04 / 81
p0 256.6 ± 0.2036
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

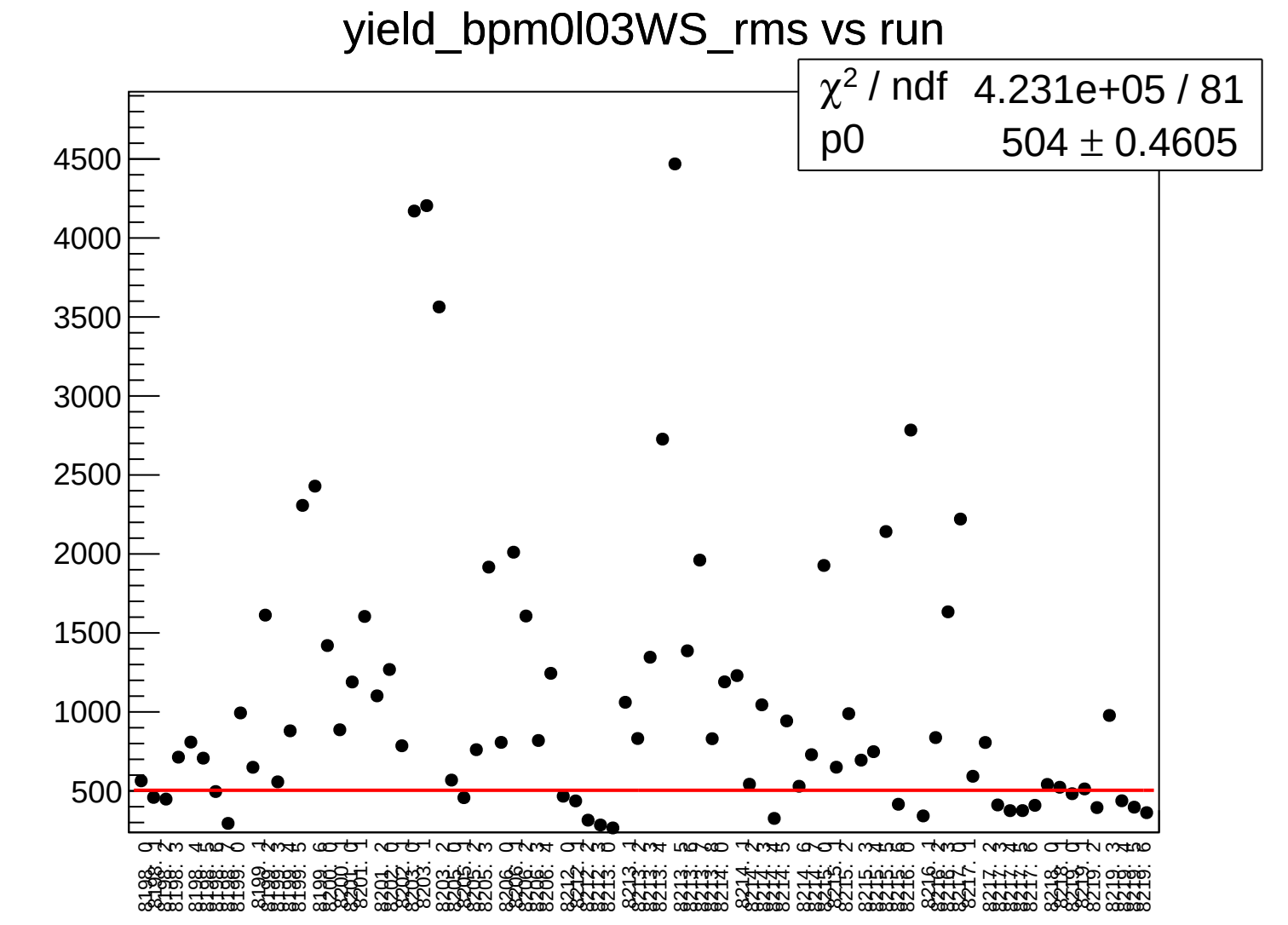

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.428e+07 / 81
p0 1.343e+05 ± 0.3755
136
135
134
133
132
131
pull
Entries 82
Mean 275.9
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

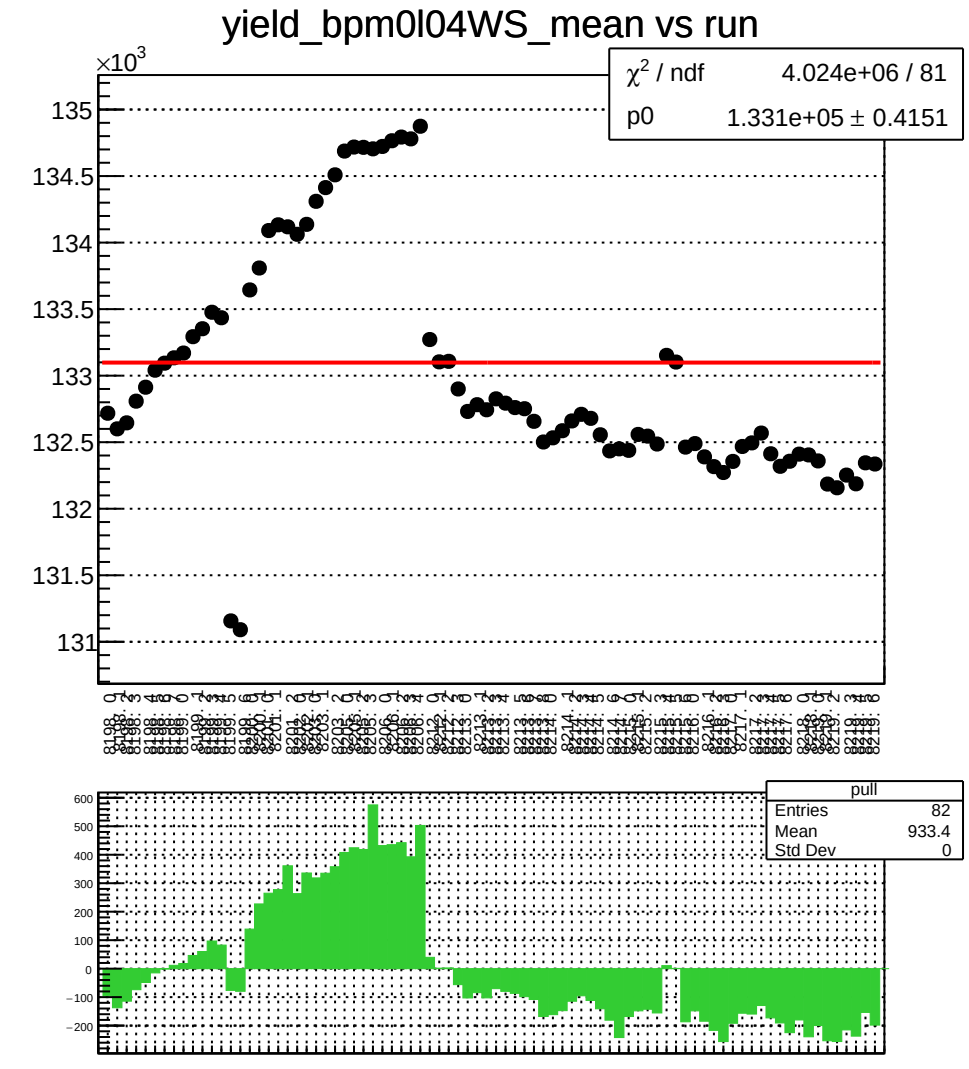

pull1D
Entries 82
Mean −0.4014
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

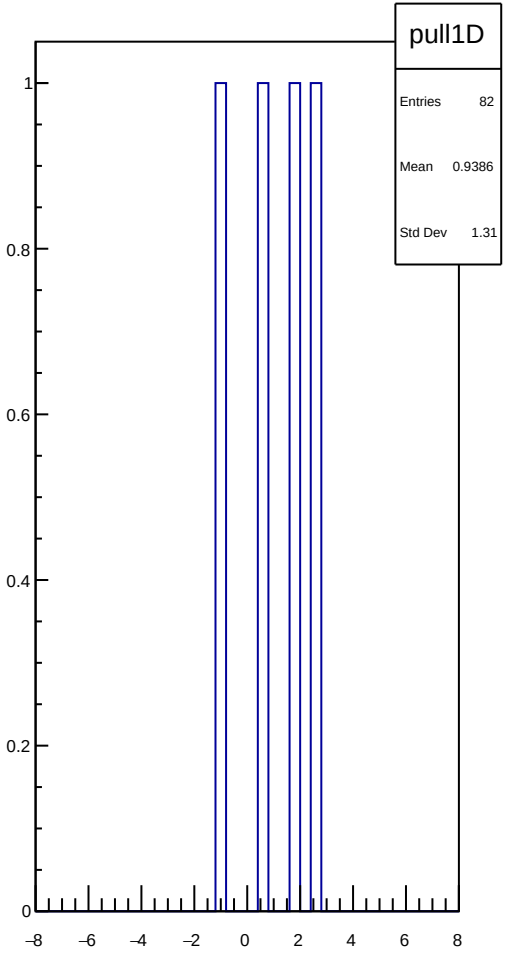

yield_bpm0l02WS_rms vs run
χ² / ndf 3.147e+04 / 81
p0 334.8 ± 0.2655
2500
2000
1500
1000
500

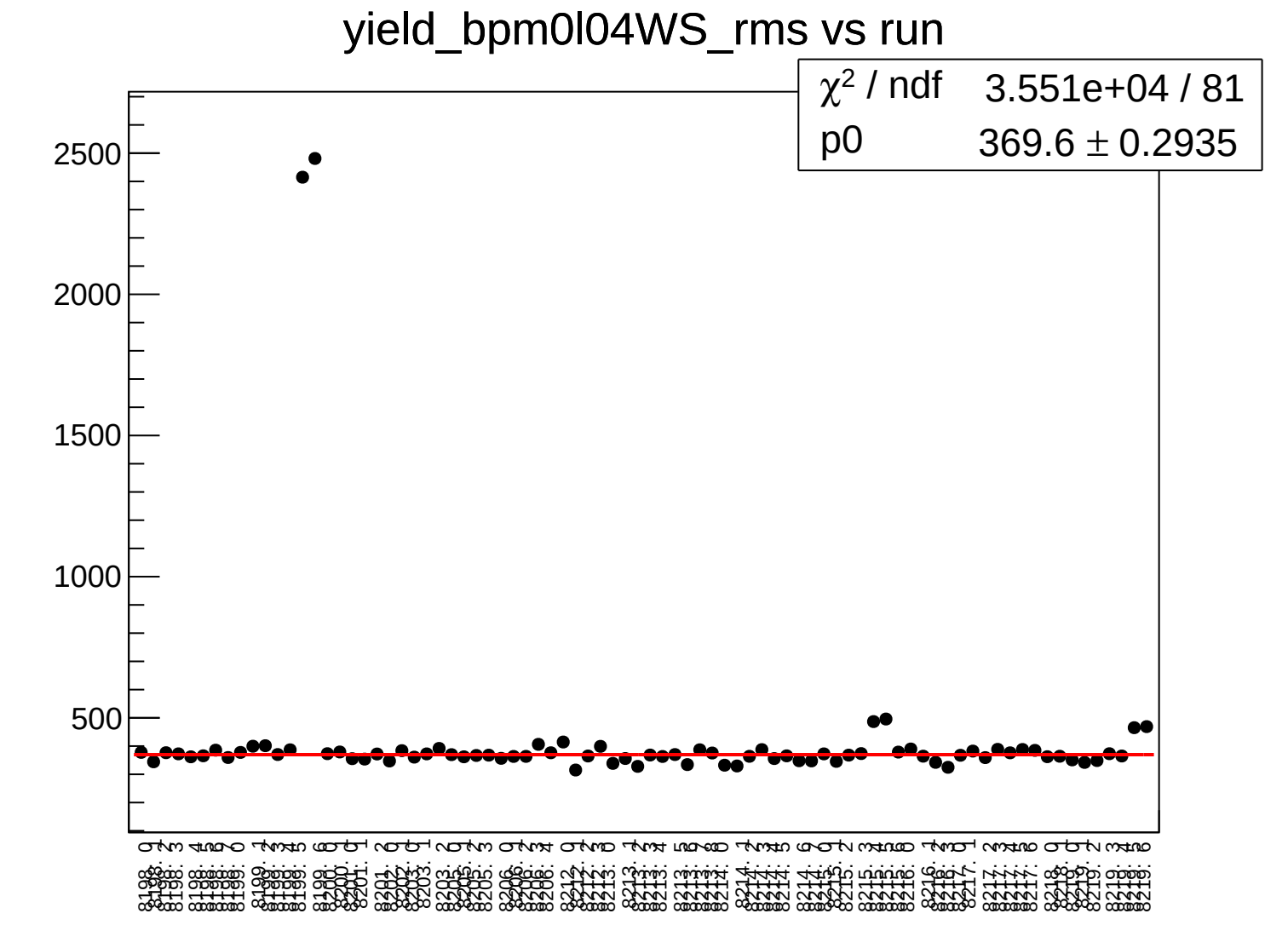

yield_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 3.555e+05 / 81
p0 1.28e+05 ± 0.6512
129
128
127
126
125
124
123
122
pull
Entries 82
Mean 279.3
Std Dev 0
300
200
100
0
−100

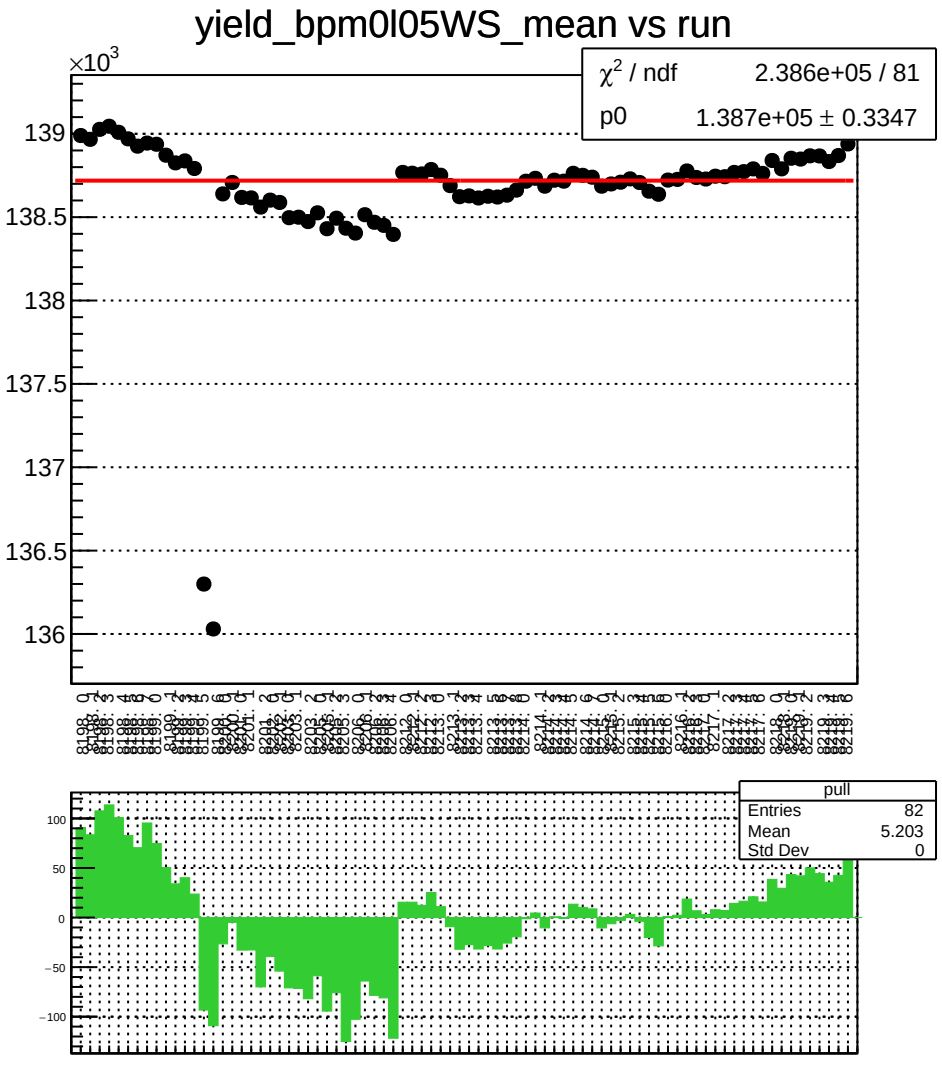

pull1D
Entries 82
Mean 1.02
Std Dev 5.007
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

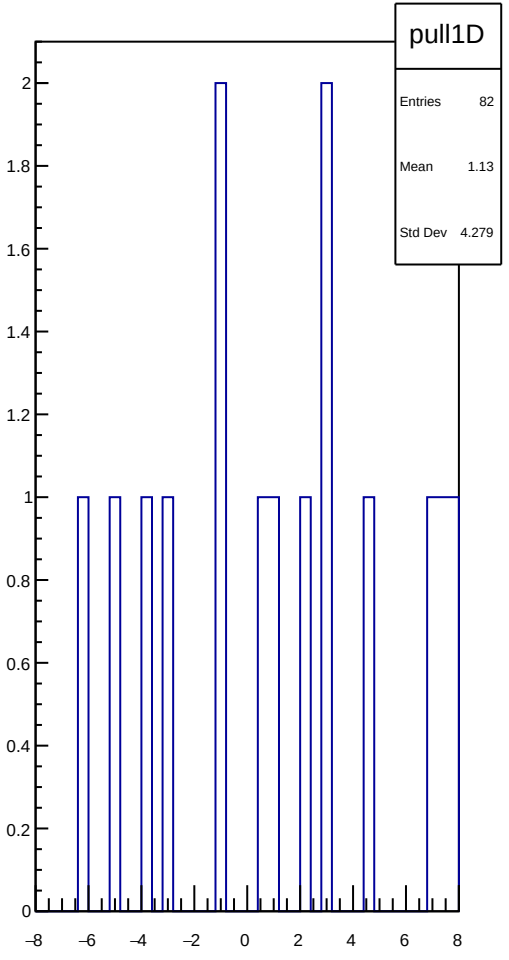

yield_bpm0l03WS_rms vs run
χ² / ndf 4.231e+05 / 81
p0 504 ± 0.4605
4500
4000
3500
3000
2500
2000
1500
1000
500

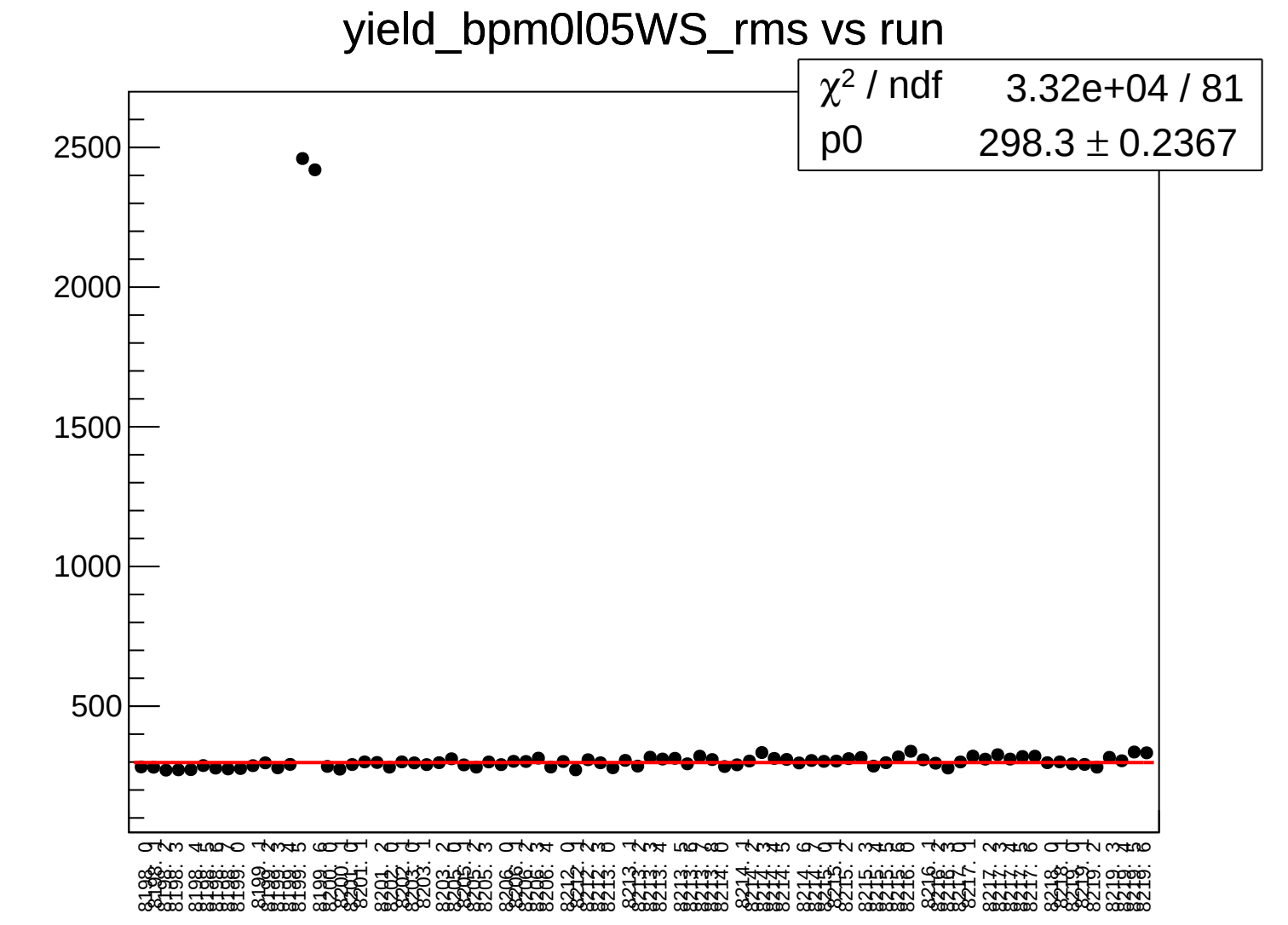

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 4.024e+06 / 81
p0 1.331e+05 ± 0.4151
135
134.5
134
133.5
133
132.5
132
131.5
131
pull
Entries 82
Mean 933.4
Std Dev 0
600
500
400
300
200
100
0
−100
−200

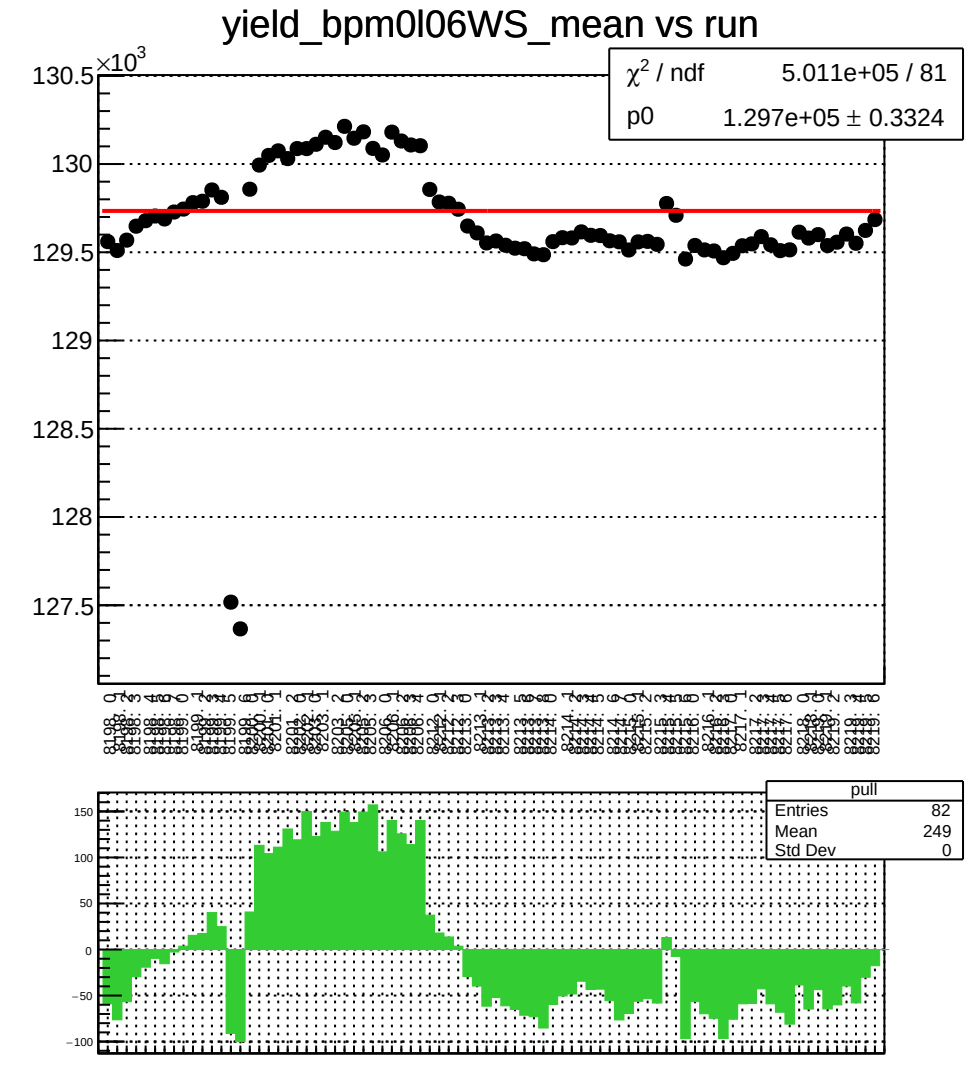

pull1D
Entries 82
Mean 0.9386
Std Dev 1.31
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

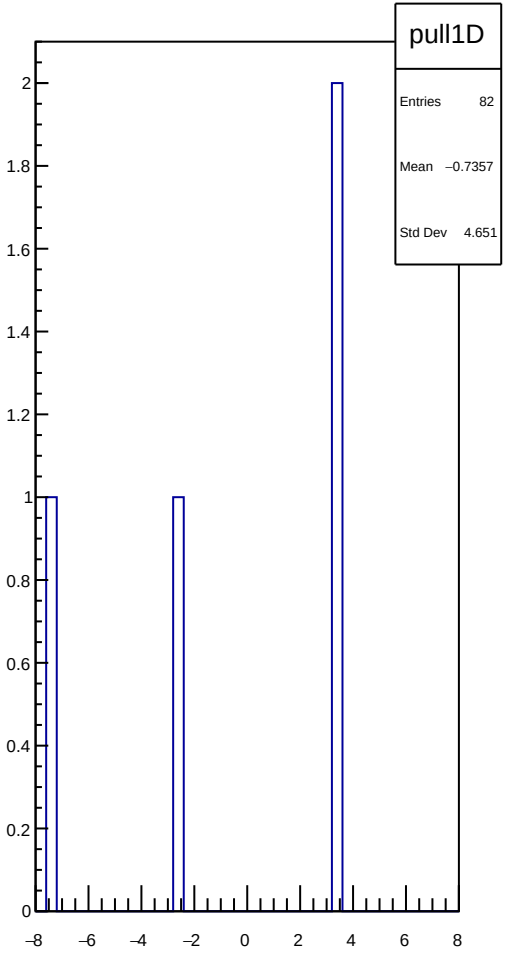

yield_bpm0l04WS_rms vs run
χ² / ndf 3.551e+04 / 81
p0 369.6 ± 0.2935
2500
2000
1500
1000
500

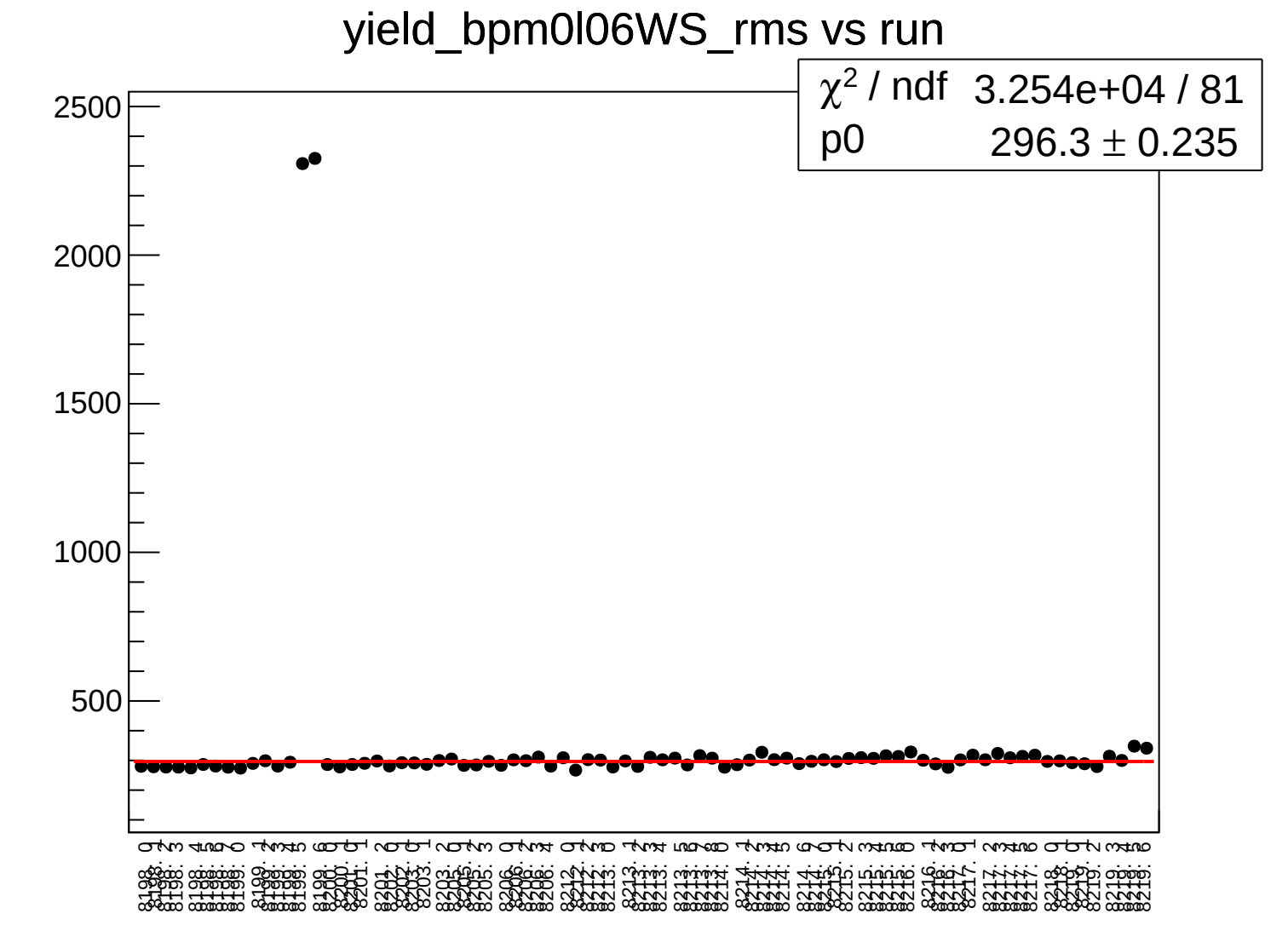

yield_bpm0l05WS_mean vs run
$\chi^2$ / ndf 2.386e+05 / 81
p0 1.387e+05 ± 0.3347
×10^3
139
138.5
138
137.5
137
136.5
136
pull
Entries 82
Mean 5.203
Std Dev 0
100
50
0
−50
−100

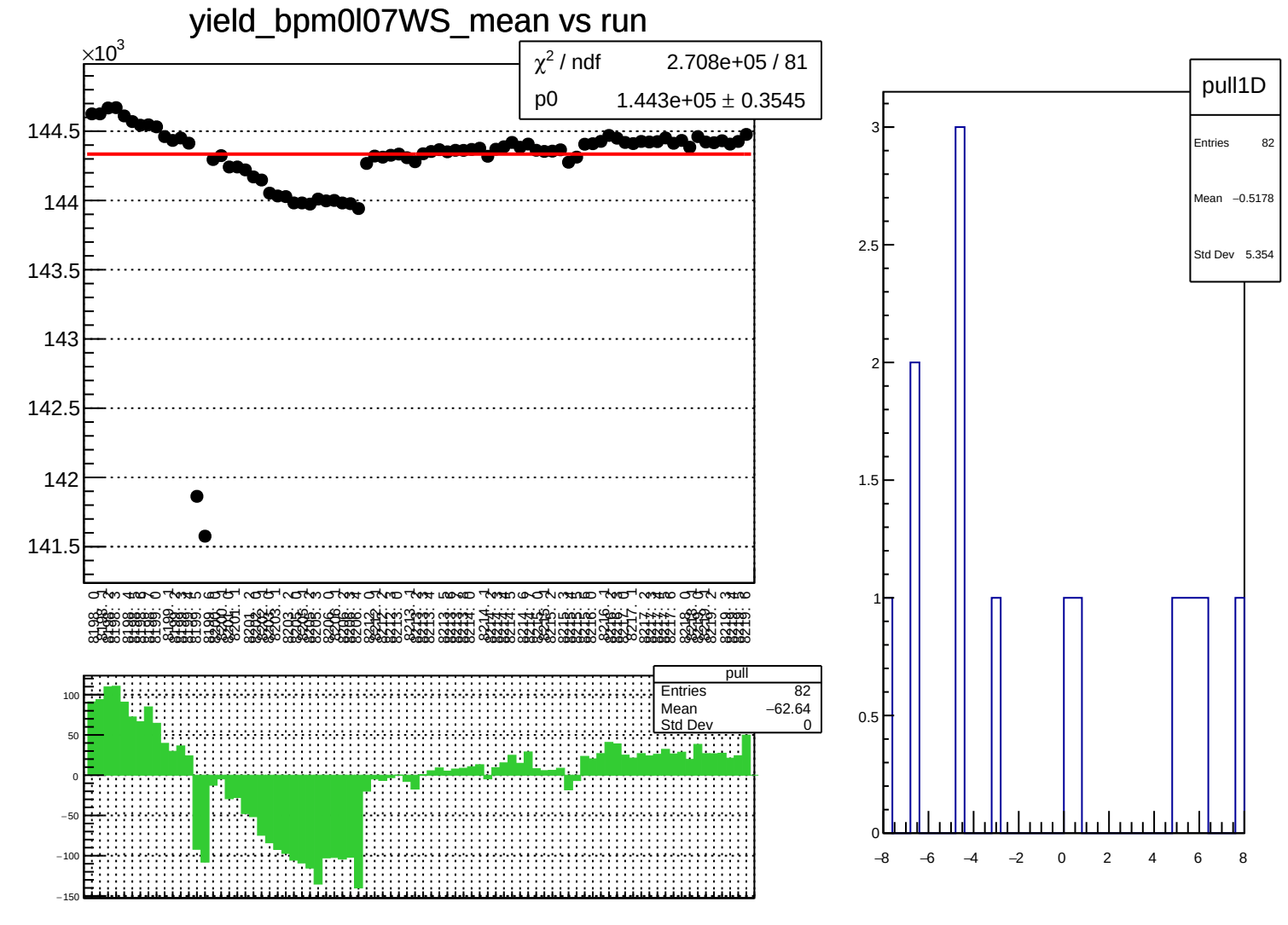

pull1D
Entries 82
Mean 1.13
Std Dev 4.279
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

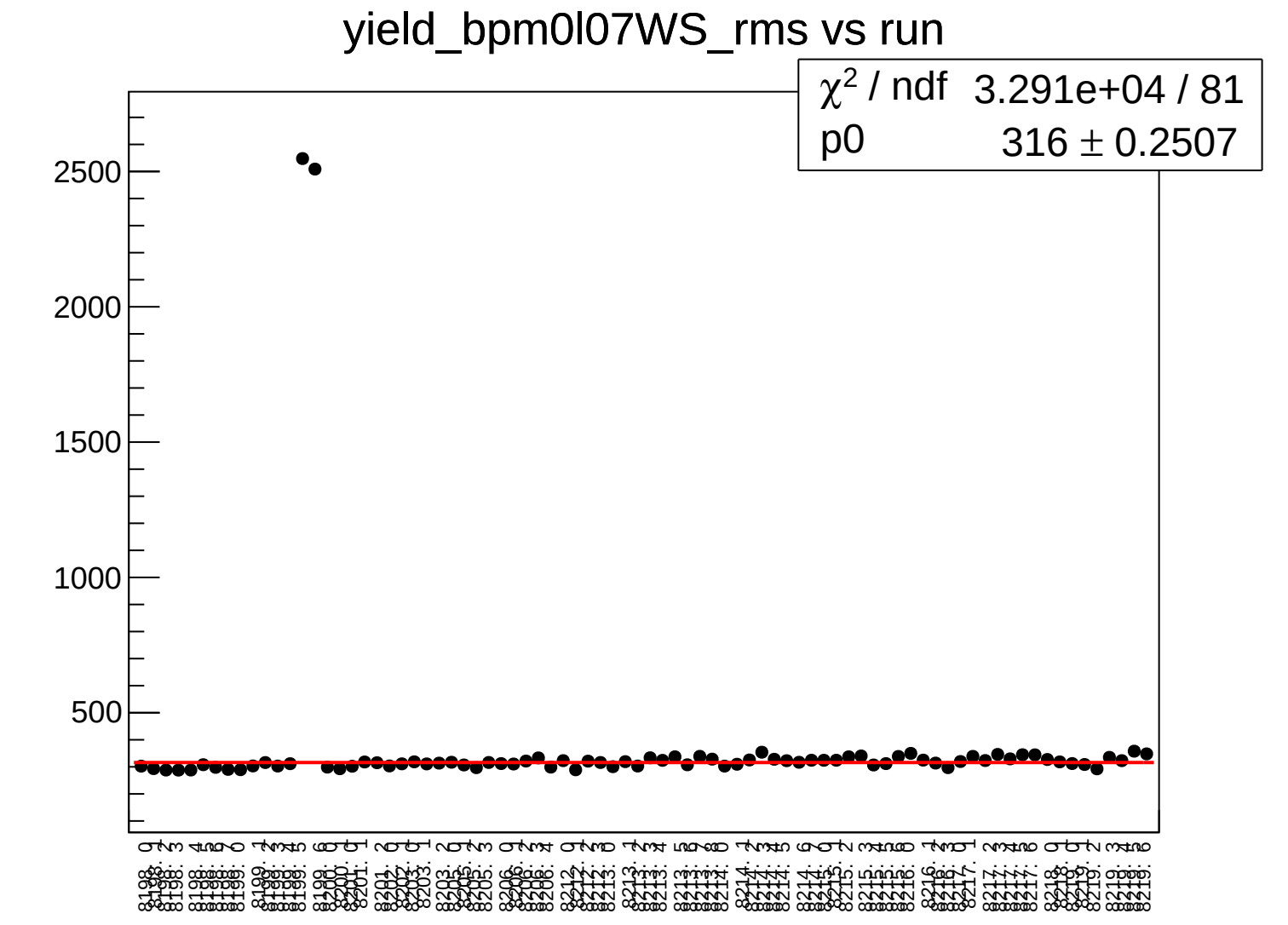

yield_bpm0l05WS_rms vs run
χ² / ndf 3.32e+04 / 81
p0 298.3 ± 0.2367
2500
2000
1500
1000
500

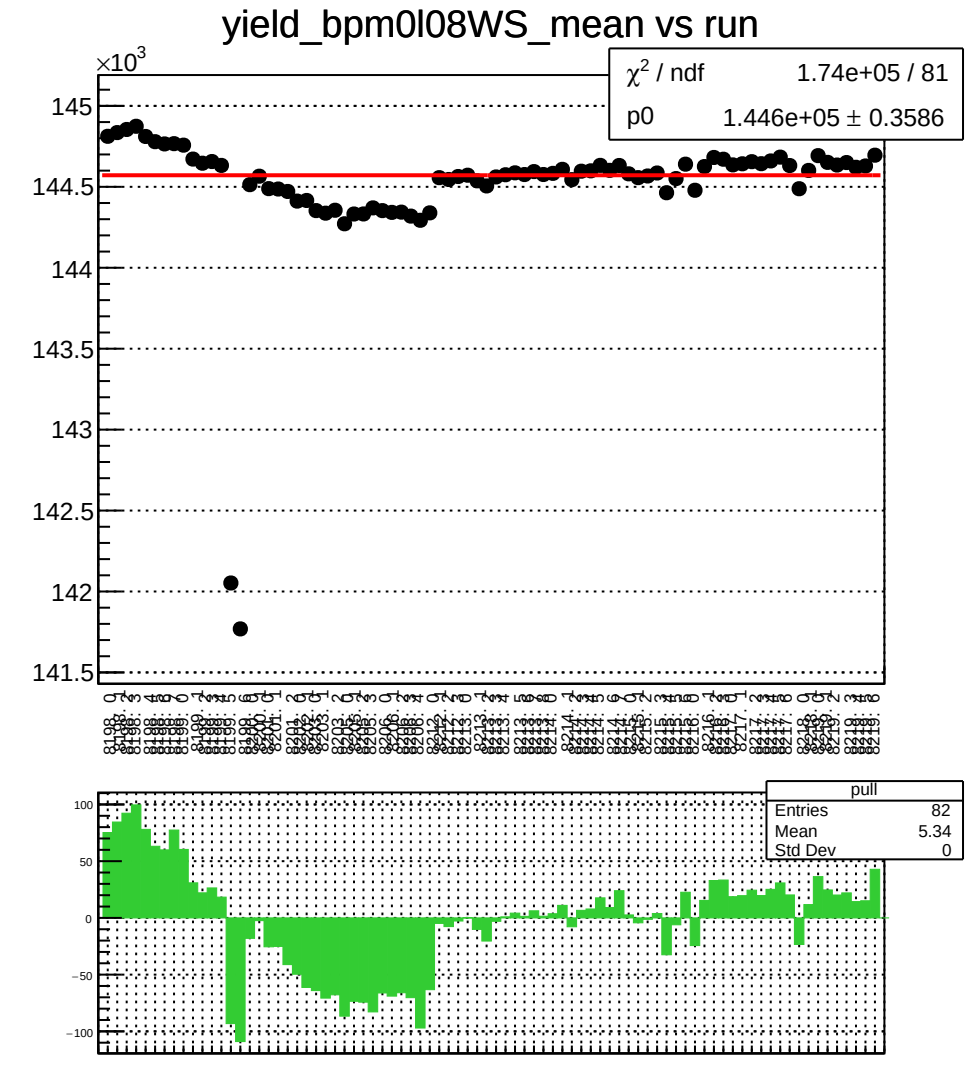

yield_bpm0l06WS_mean vs run
χ² / ndf 5.011e+05 / 81
p0 1.297e+05 ± 0.3324
pull
Entries 82
Mean 249
Std Dev 0

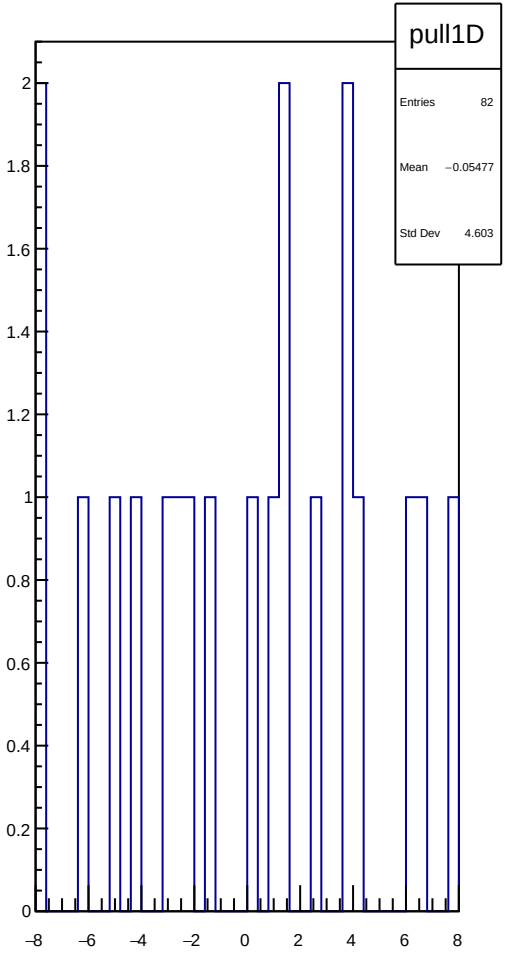

pull1D
Entries 82
Mean −0.7357
Std Dev 4.651

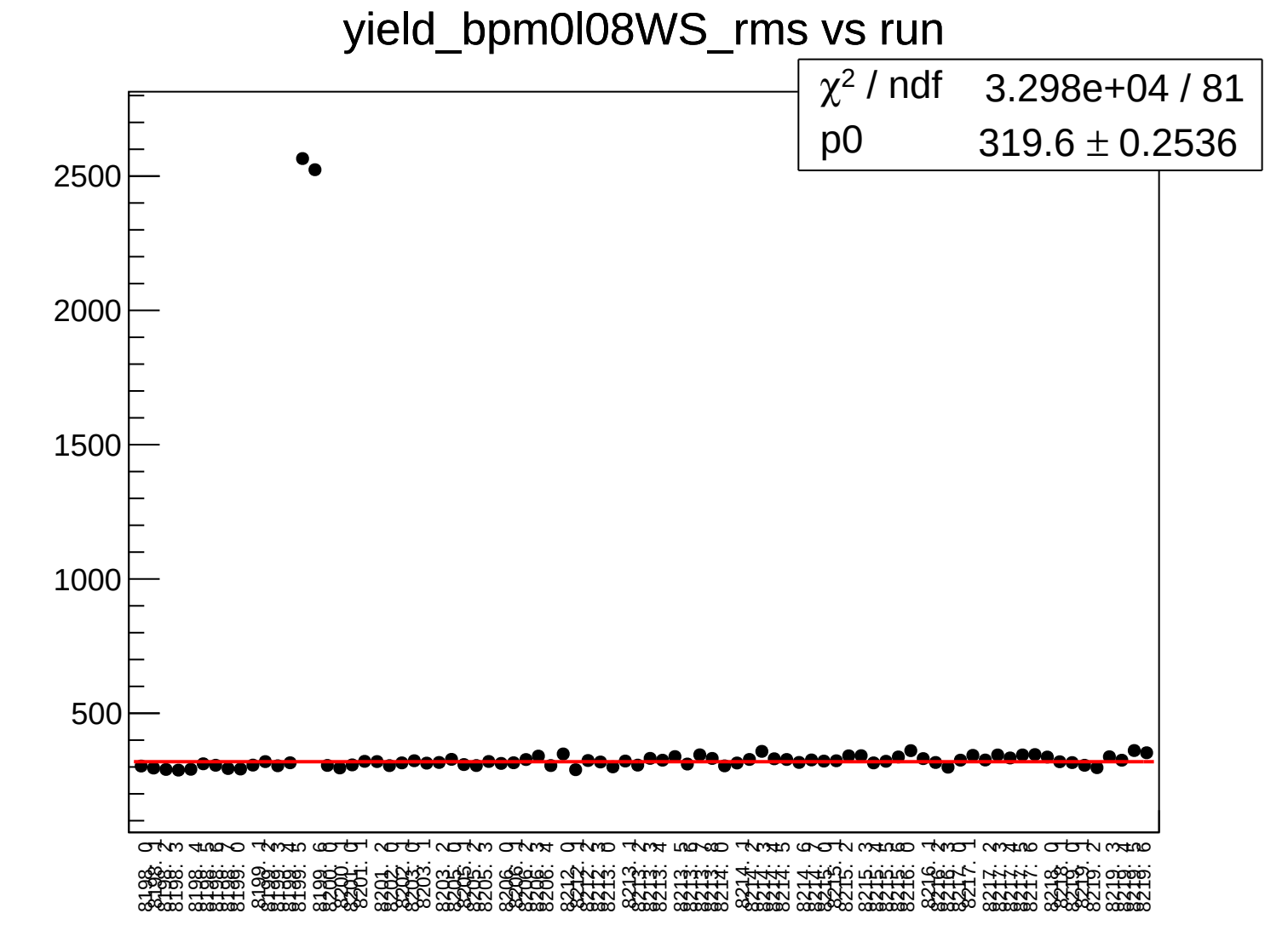

yield_bpm0l06WS_rms vs run
χ² / ndf 3.254e+04 / 81
p0 296.3 ± 0.235
2500
2000
1500
1000
500

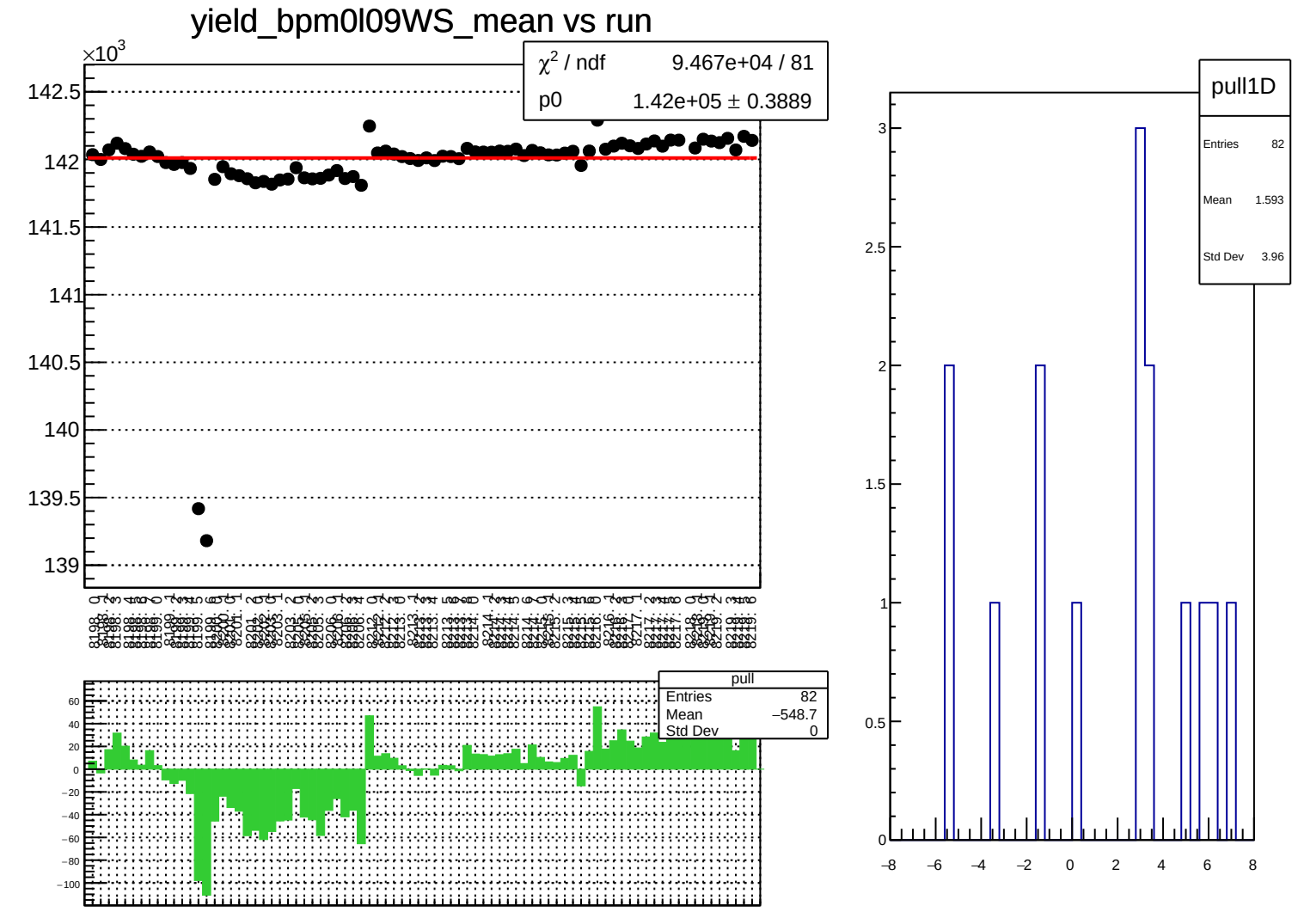

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 2.708e+05 / 81
p0 1.443e+05 ± 0.3545
144.5
144
143.5
143
142.5
142
141.5
pull
Entries 82
Mean −62.64
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 82
Mean −0.5178
Std Dev 5.354
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

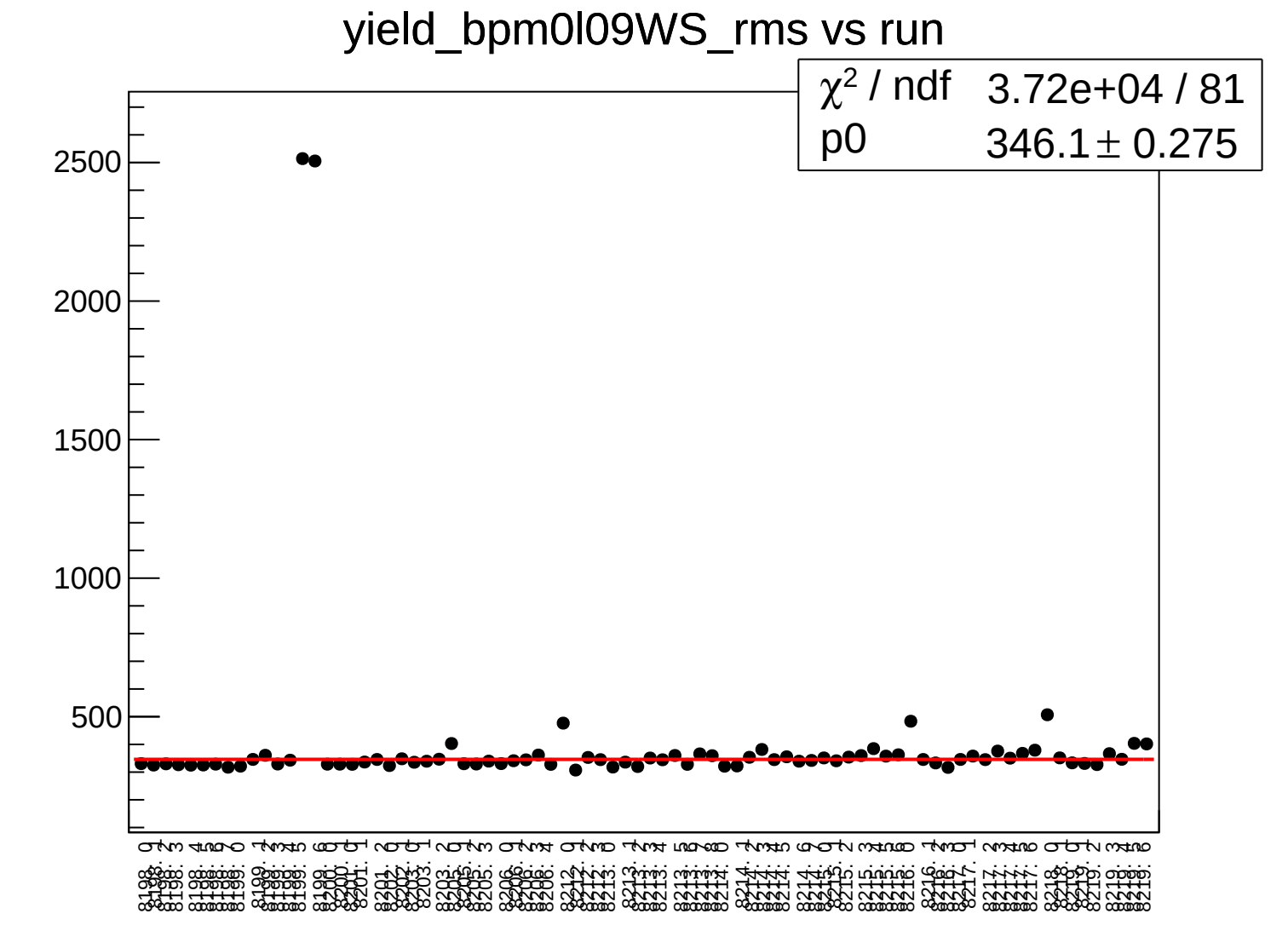

yield_bpm0l07WS_rms vs run
χ² / ndf 3.291e+04 / 81
p0 316 ± 0.2507
2500
2000
1500
1000
500

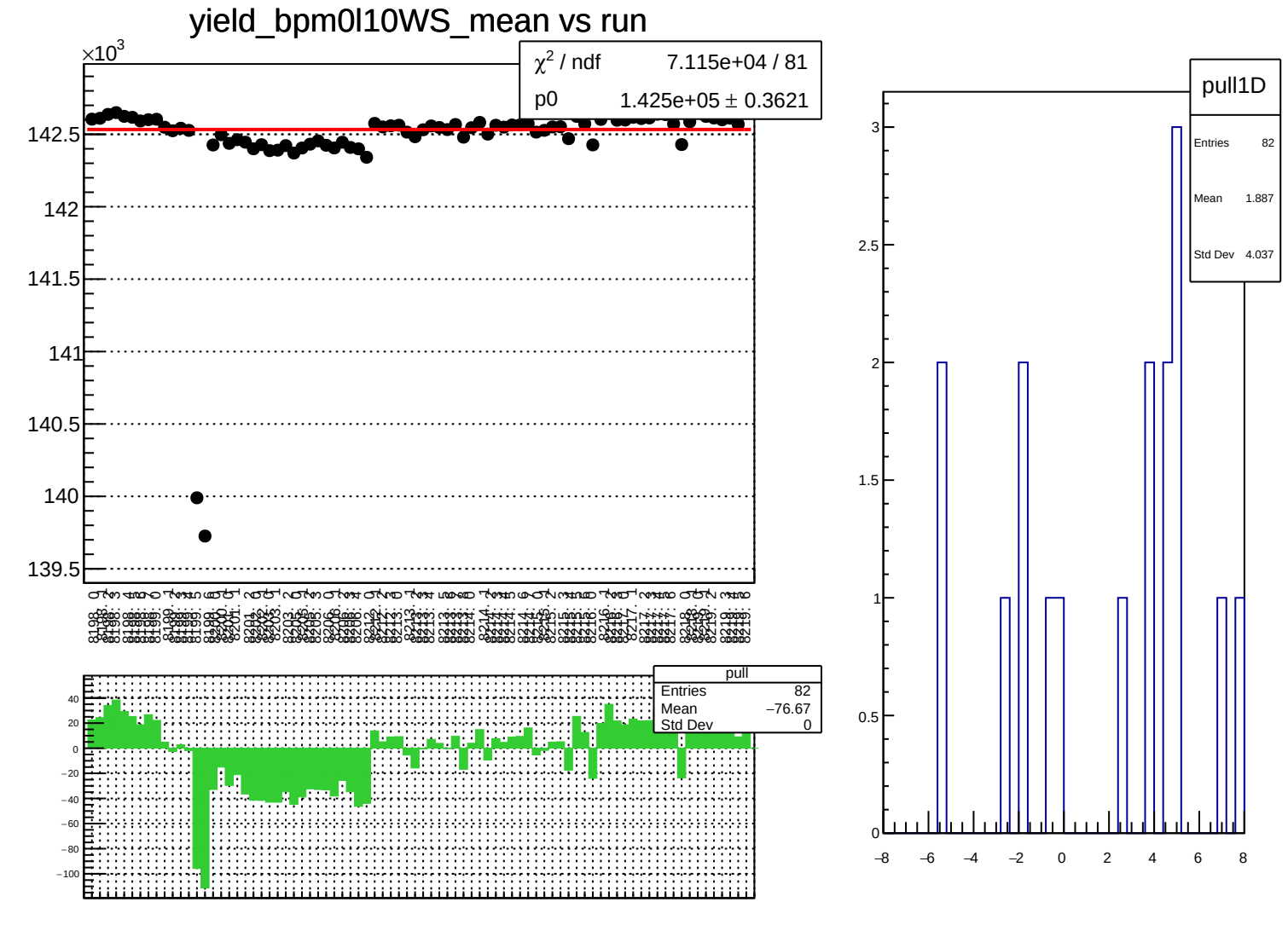

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 1.74e+05 / 81
p0 1.446e+05 ± 0.3586
145
144.5
144
143.5
143
142.5
142
141.5
pull
Entries 82
Mean 5.34
Std Dev 0
100
50
0
−50
−100

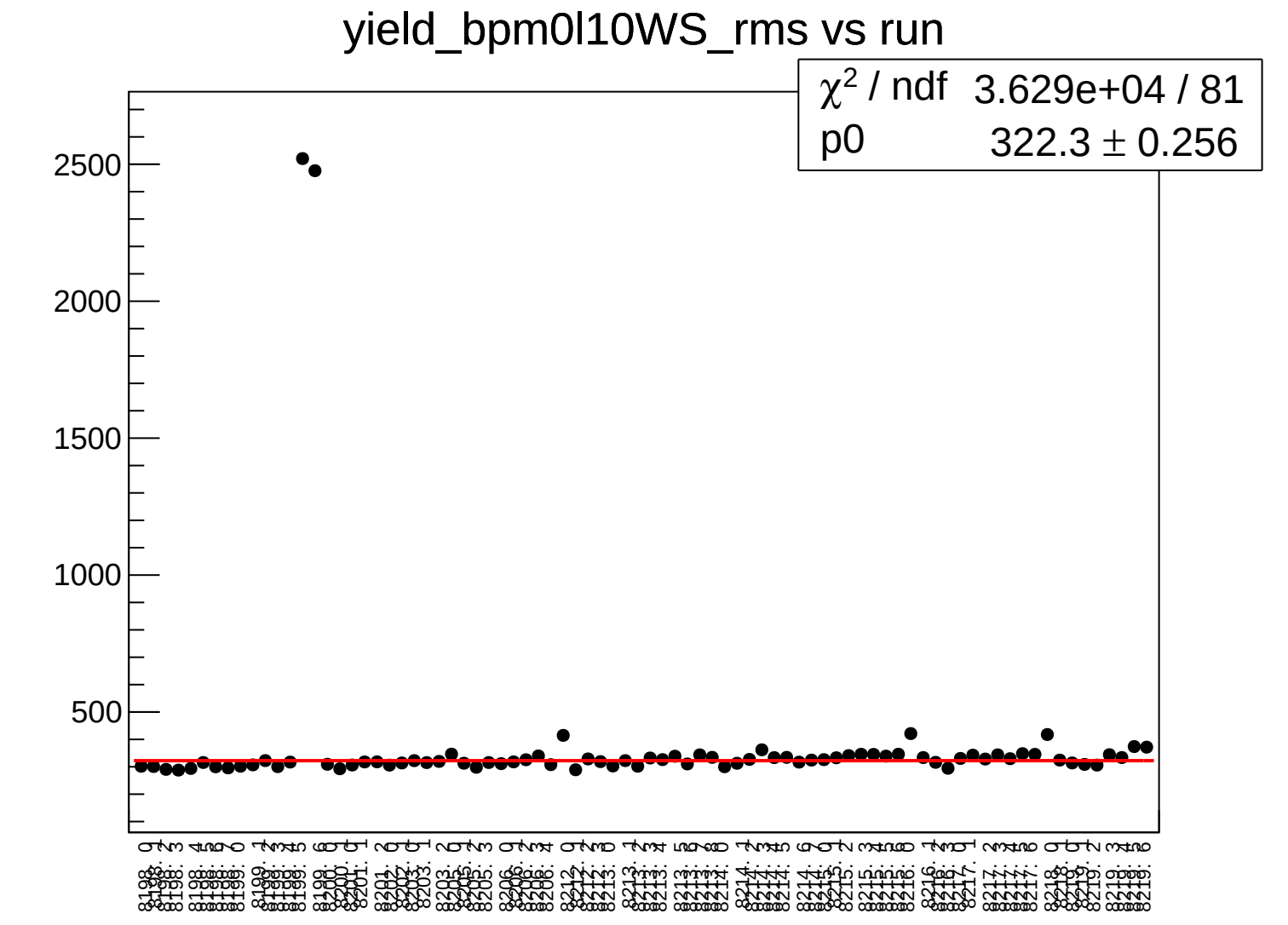

pull1D
Entries 82
Mean −0.05477
Std Dev 4.603
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

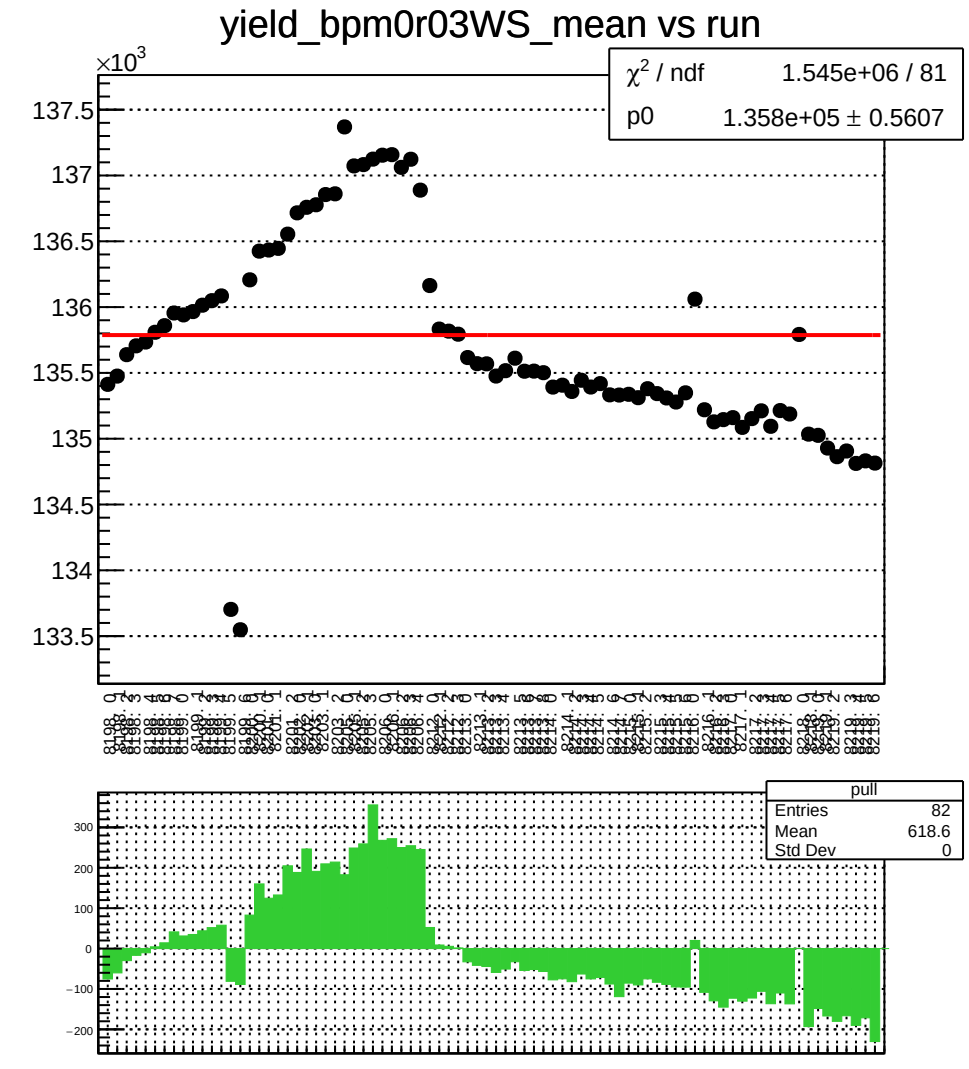

yield_bpm0l08WS_rms vs run
χ² / ndf 3.298e+04 / 81
p0 319.6 ± 0.2536
2500
2000
1500
1000
500

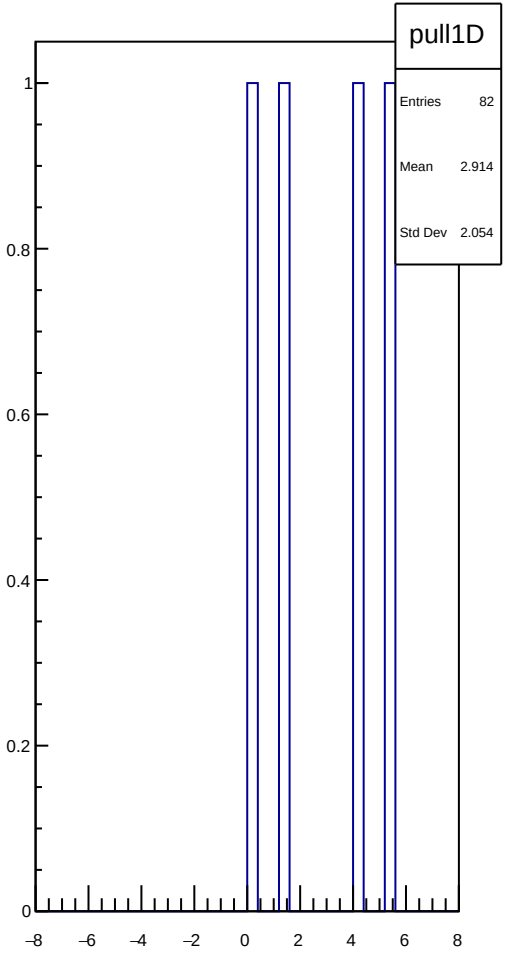

yield_bpm0l09WS_mean vs run
×10^3
χ^2 / ndf 9.467e+04 / 81
p0 1.42e+05 ± 0.3889
142.5
142
141.5
141
140.5
140
139.5
139
pull
Entries 82
Mean −548.7
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 82
Mean 1.593
Std Dev 3.96
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

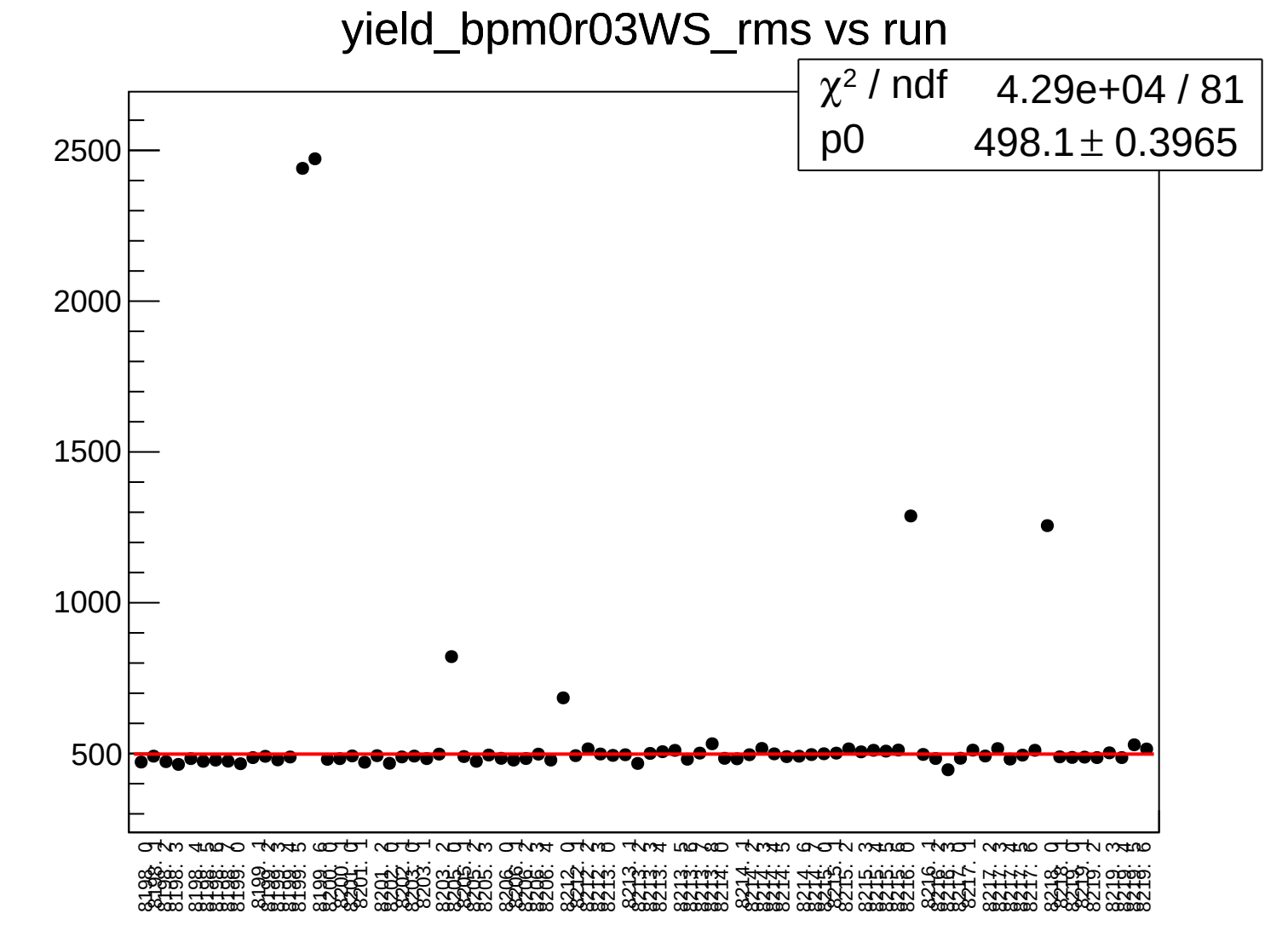

yield_bpm0l09WS_rms vs run
χ² / ndf 3.72e+04 / 81
p0 346.1 ± 0.275
2500
2000
1500
1000
500

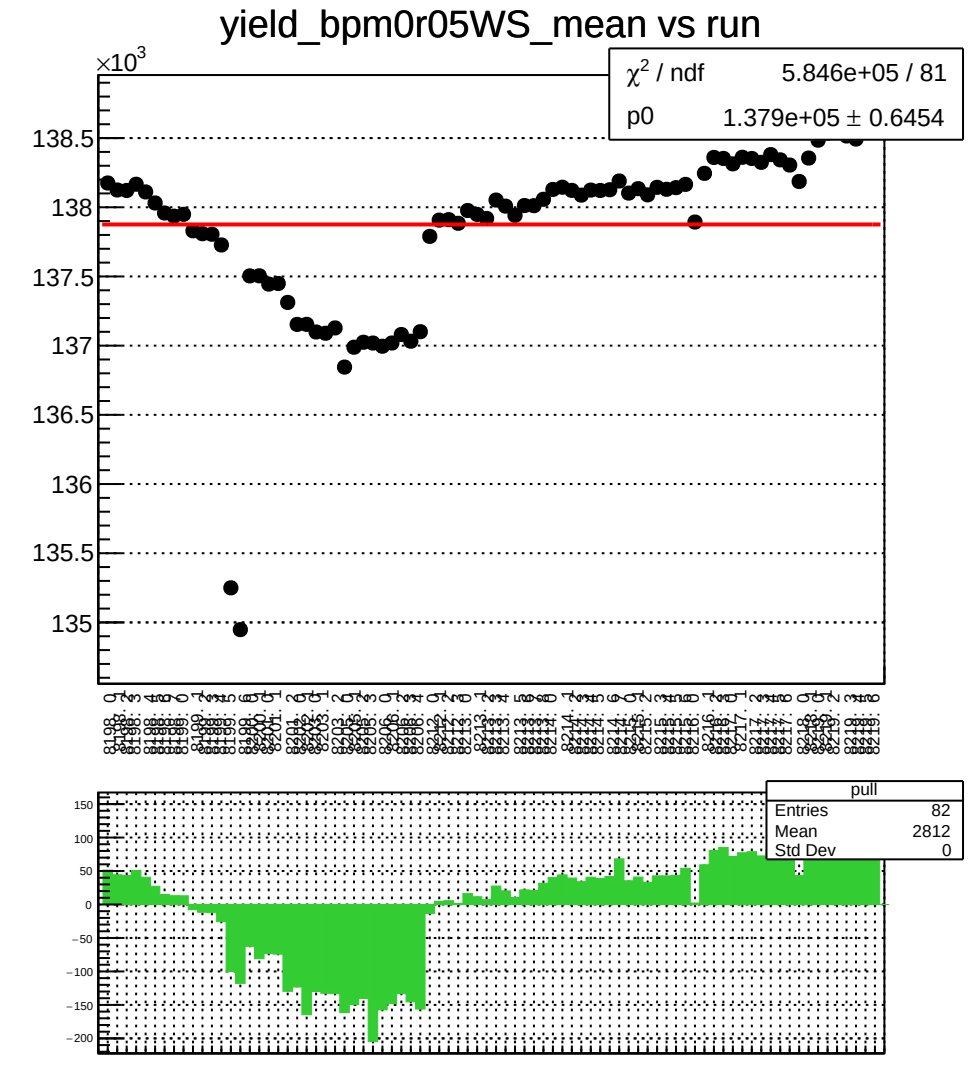

yield_bpm0l10WS_mean vs run
×10^3
χ^2 / ndf 7.115e+04 / 81
p0 1.425e+05 ± 0.3621
142.5
142
141.5
141
140.5
140
139.5
pull
Entries 82
Mean −76.67
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 82
Mean 1.887
Std Dev 4.037
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

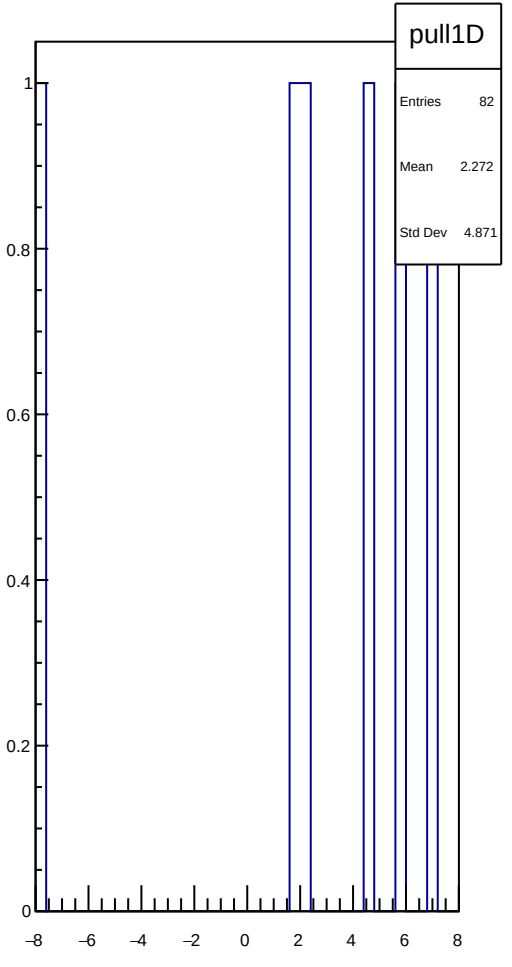

yield_bpm0l10WS_rms vs run
χ² / ndf 3.629e+04 / 81
p0 322.3 ± 0.256
2500
2000
1500
1000
500

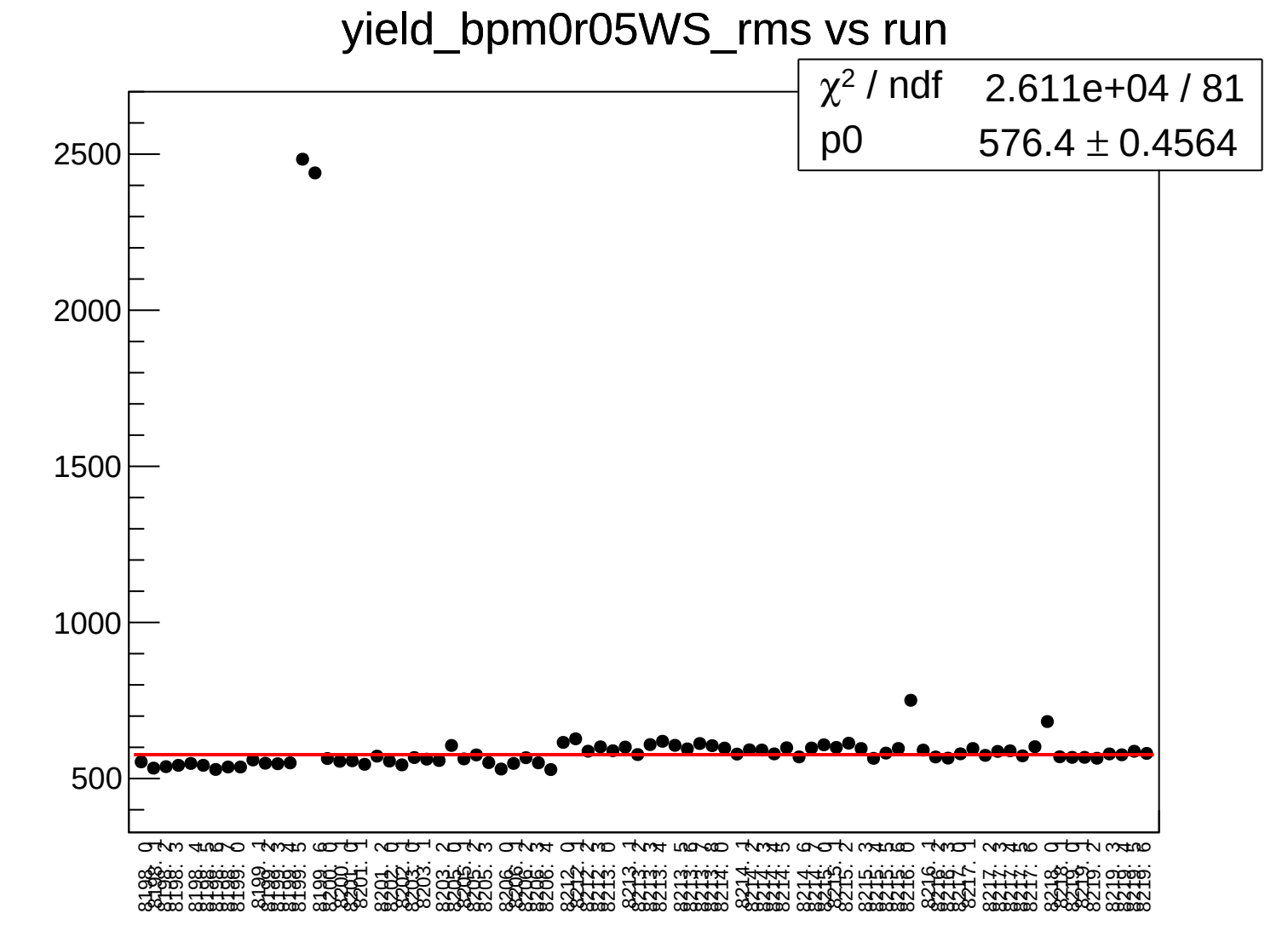

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.545e+06 / 81
p0 1.358e+05 ± 0.5607
137.5
137
136.5
136
135.5
135
134.5
134
133.5
pull
Entries 82
Mean 618.6
Std Dev 0
300
200
100
0
−100
−200

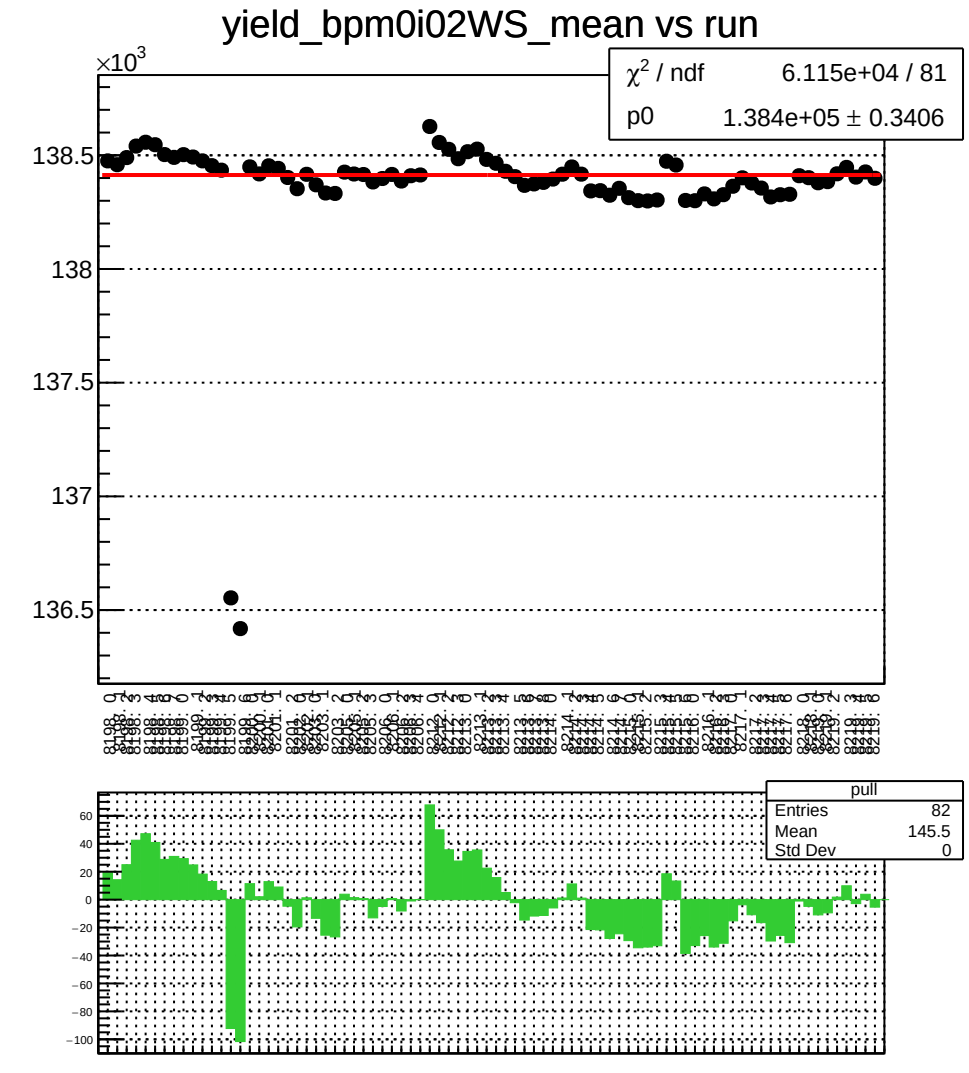

pull1D
Entries 82
Mean 2.914
Std Dev 2.054
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

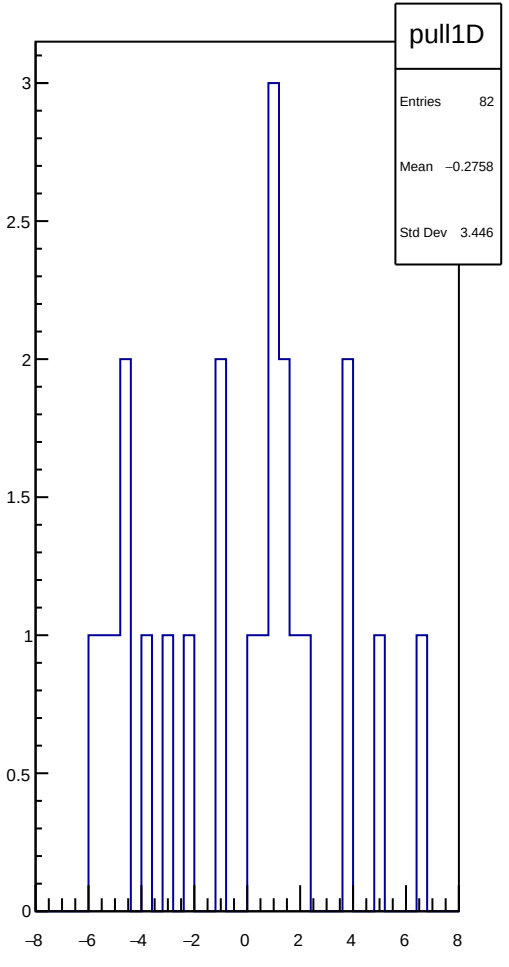

yield_bpm0r03WS_rms vs run
χ² / ndf 4.29e+04 / 81
p0 498.1 ± 0.3965
2500
2000
1500
1000
500

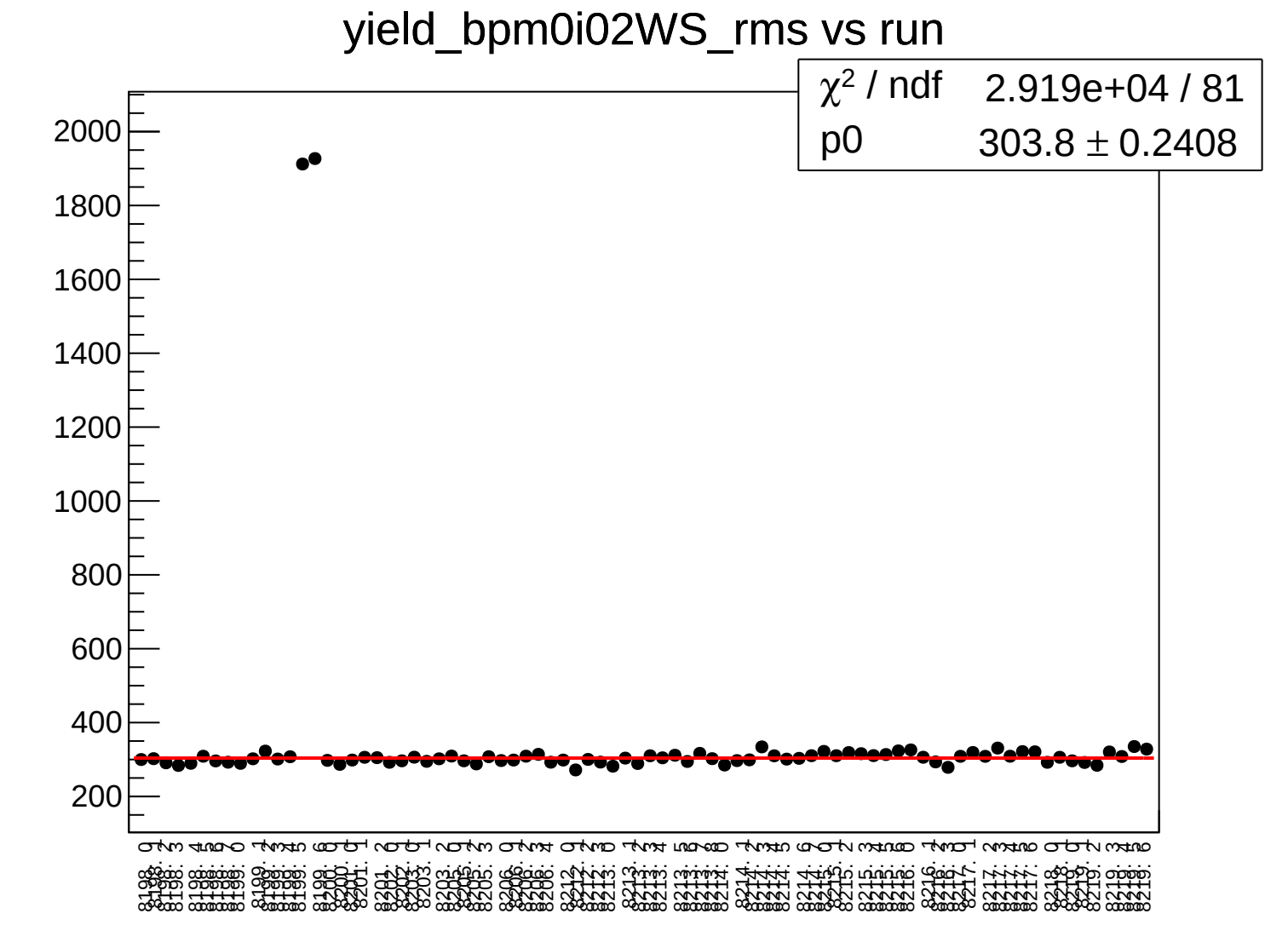

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 5.846e+05 / 81
p0 1.379e+05 ± 0.6454
138.5
138
137.5
137
136.5
136
135.5
135
pull
Entries 82
Mean 2812
Std Dev 0
150
100
50
0
−50
−100
−150
−200

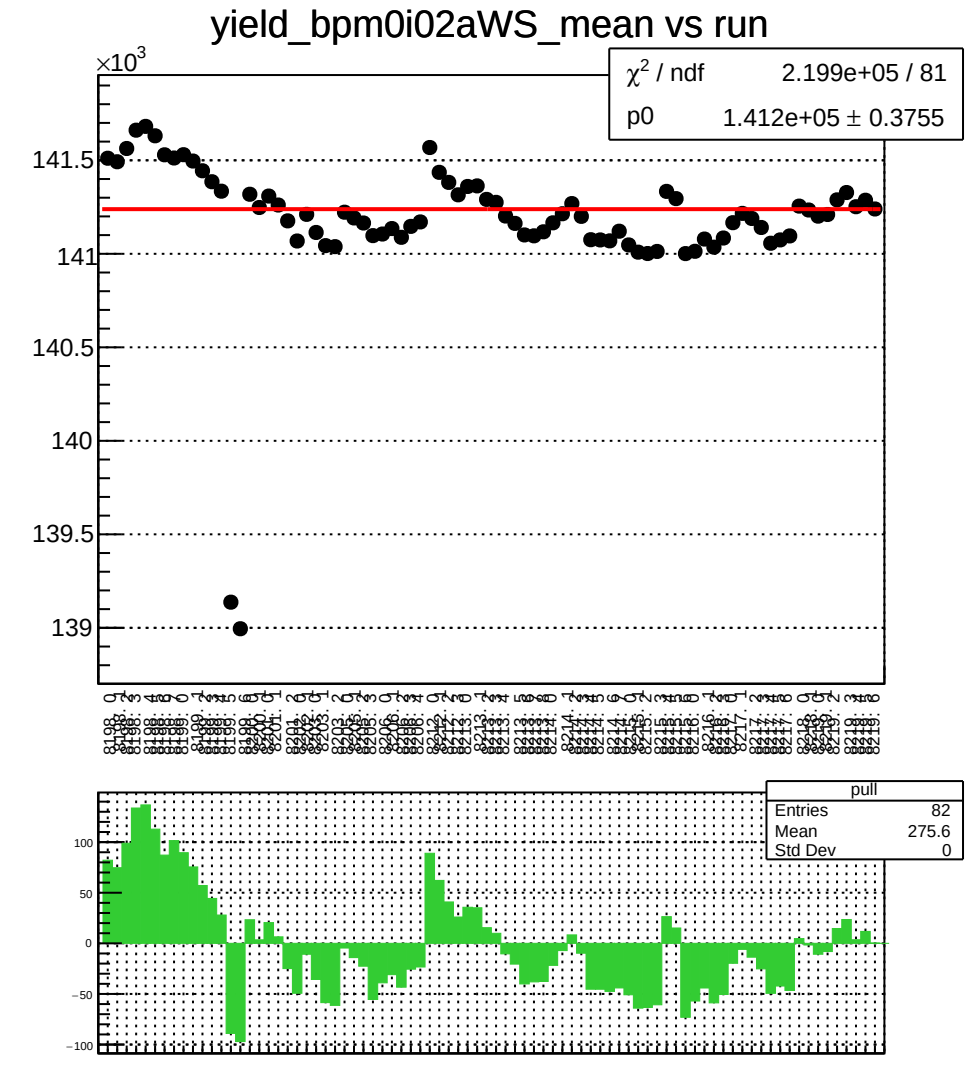

pull1D
Entries 82
Mean 2.272
Std Dev 4.871
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

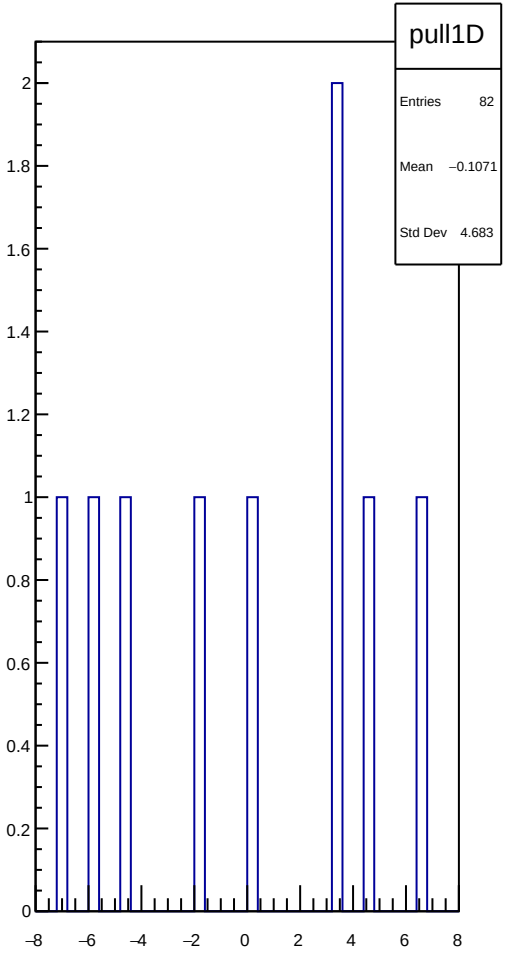

yield_bpm0r05WS_rms vs run
χ² / ndf 2.611e+04 / 81
p0 576.4 ± 0.4564
2500
2000
1500
1000
500

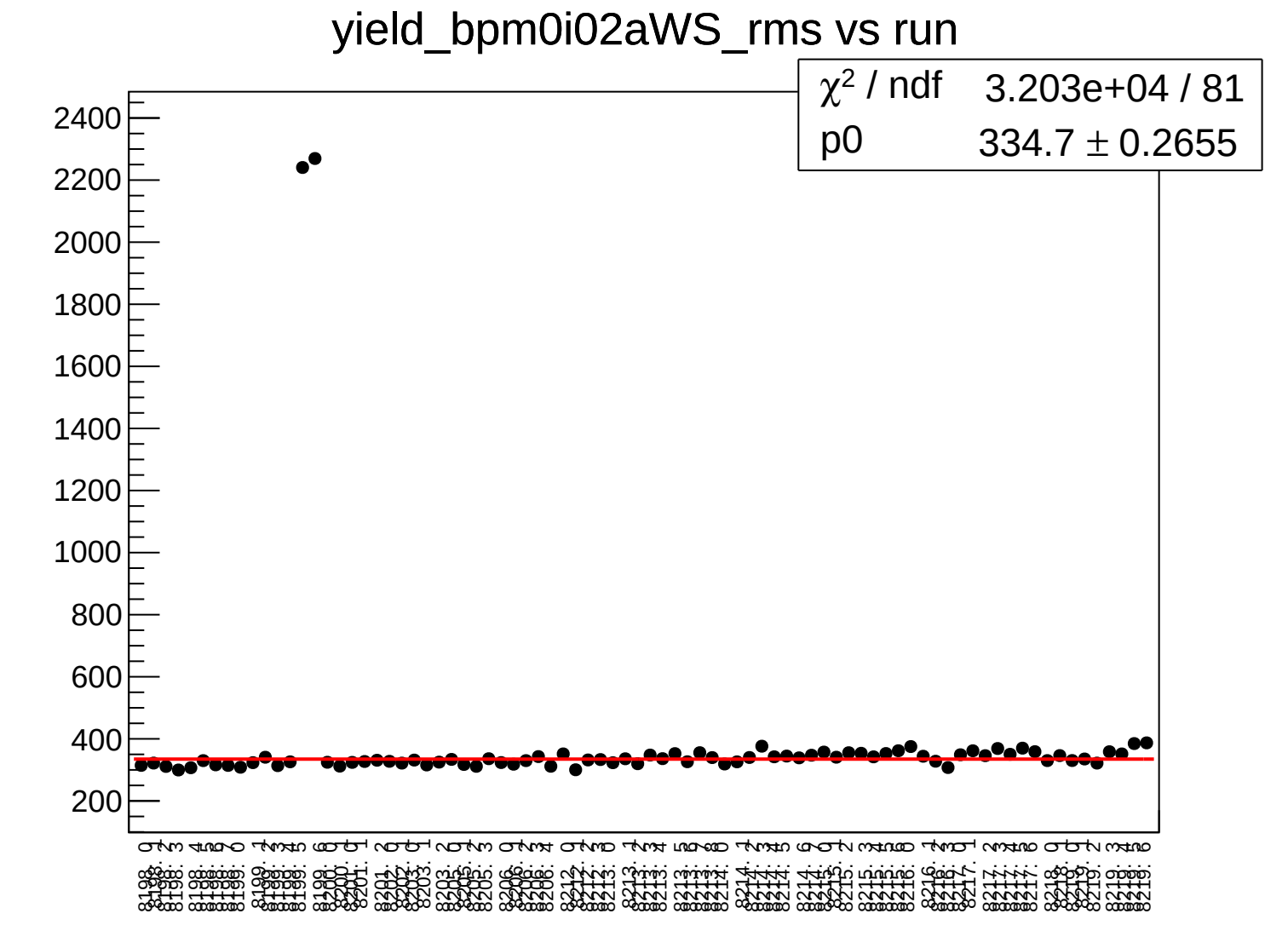

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 6.115e+04 / 81
p0 1.384e+05 ± 0.3406
138.5
138
137.5
137
136.5
pull
Entries 82
Mean 145.5
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

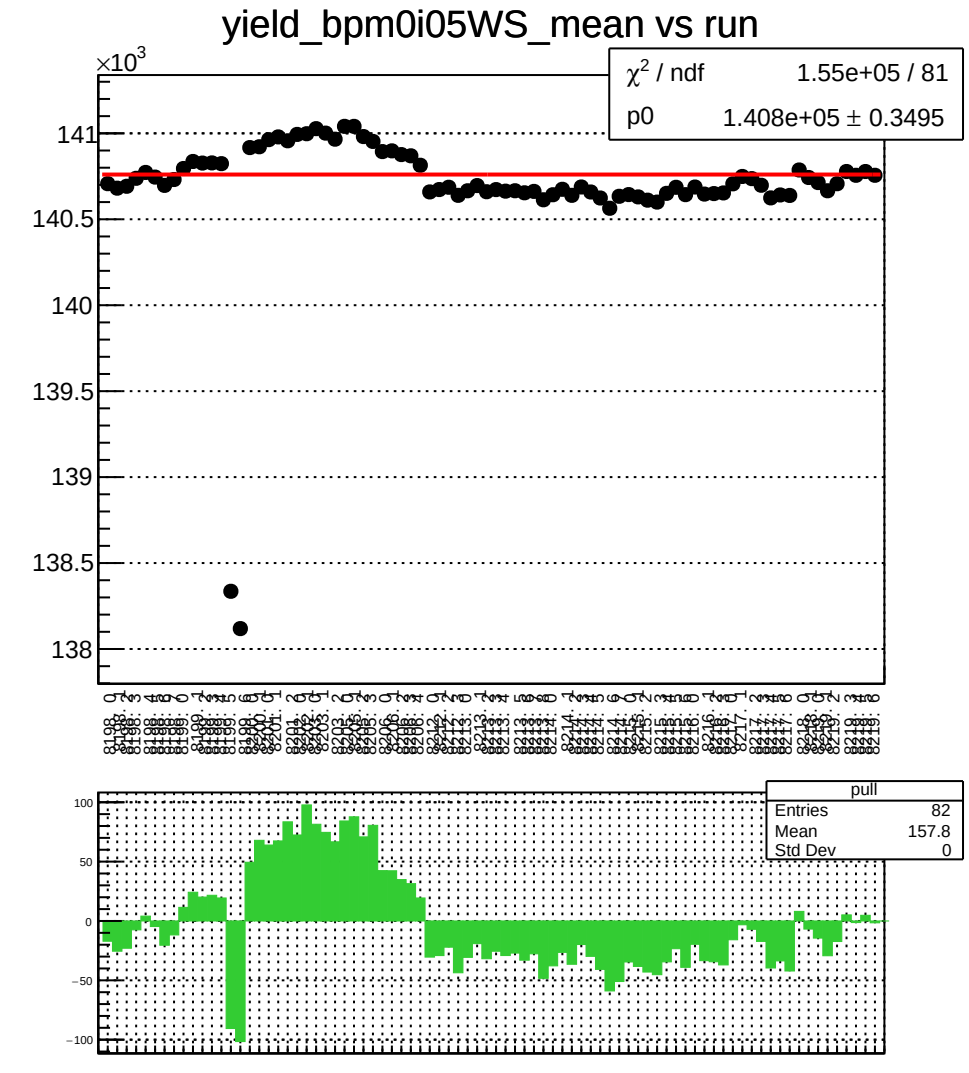

pull1D
Entries 82
Mean −0.2758
Std Dev 3.446
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

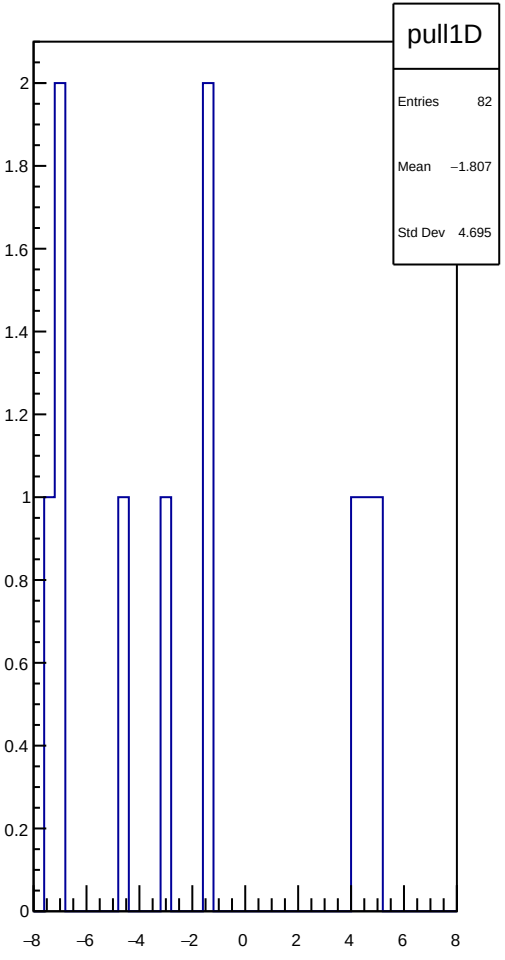

yield_bpm0i02WS_rms vs run
χ² / ndf 2.919e+04 / 81
p0 303.8 ± 0.2408
2000
1800
1600
1400
1200
1000
800
600
400
200

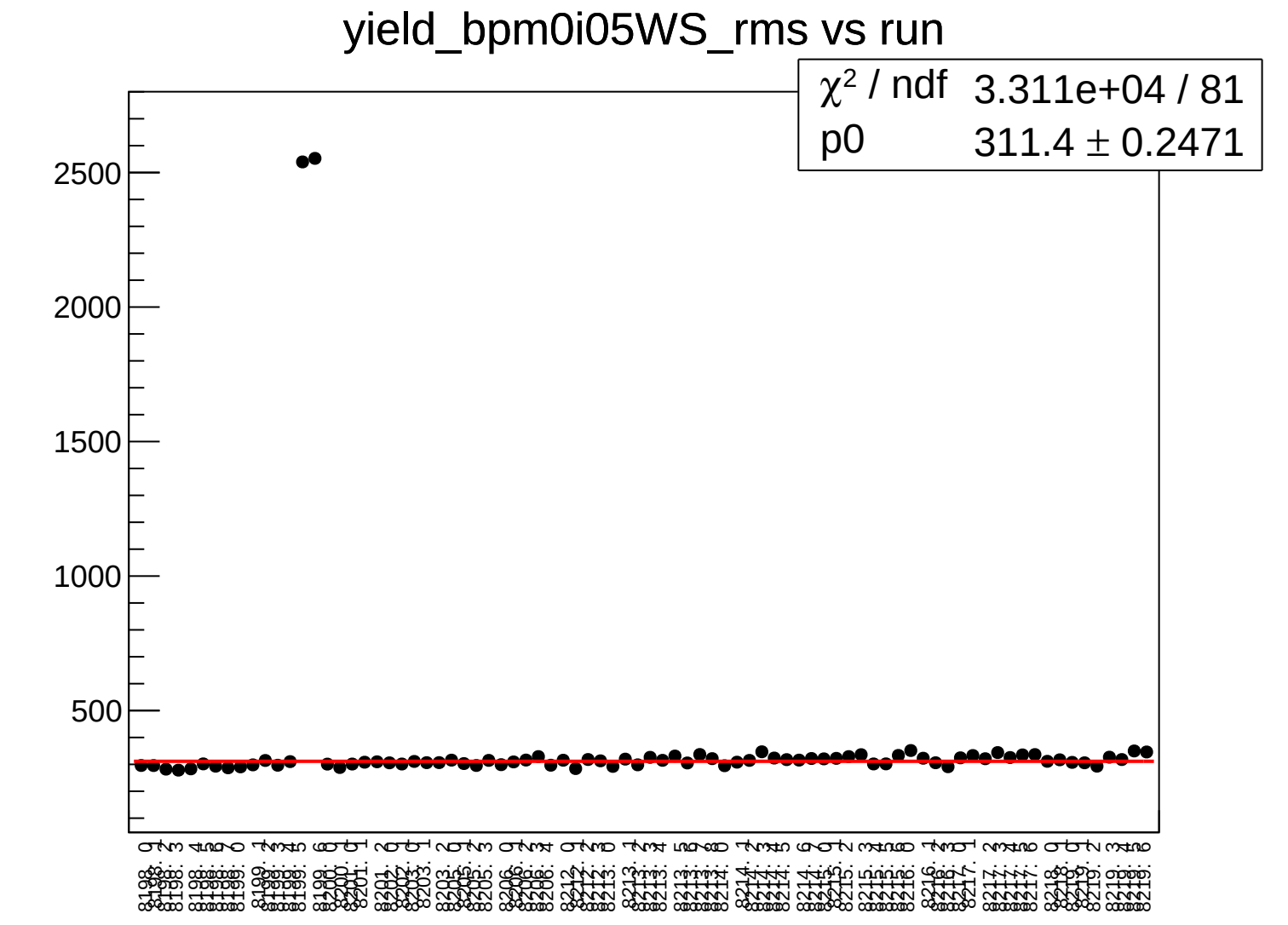

yield_bpm0i02aWS_mean vs run
χ² / ndf 2.199e+05 / 81
p0 1.412e+05 ± 0.3755
×10³
141.5
141
140.5
140
139.5
139
pull
Entries 82
Mean 275.6
Std Dev 0
100
50
0
−50
−100

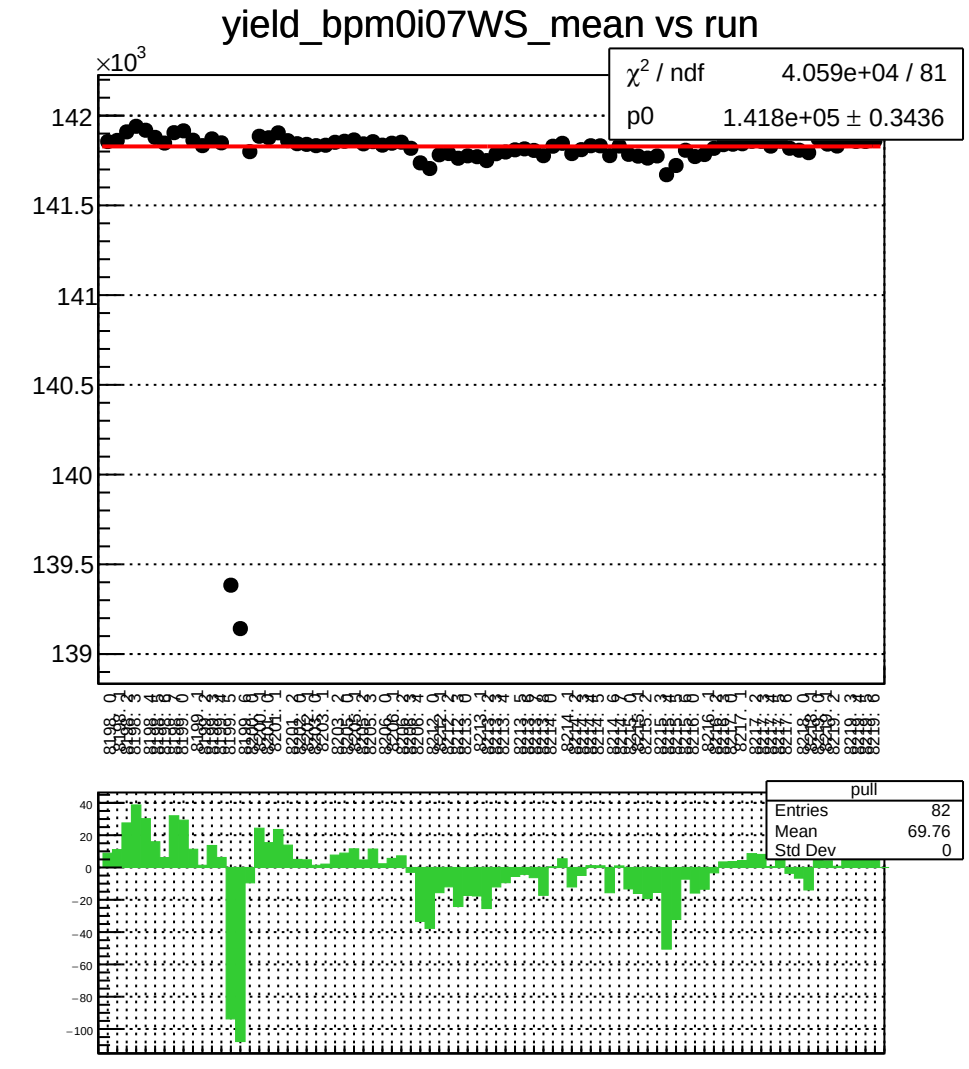

pull1D
Entries 82
Mean −0.1071
Std Dev 4.683
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

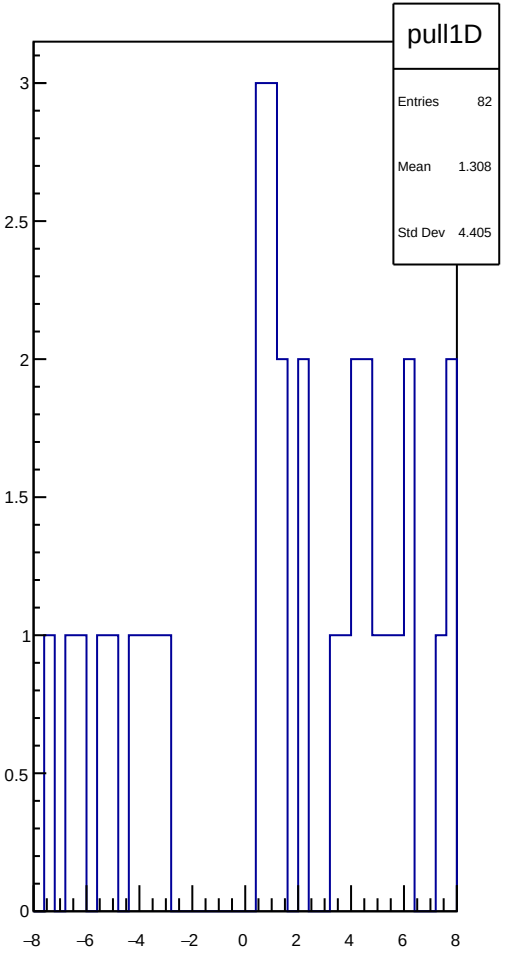

yield_bpm0i02aWS_rms vs run
χ² / ndf 3.203e+04 / 81
p0 334.7 ± 0.2655
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

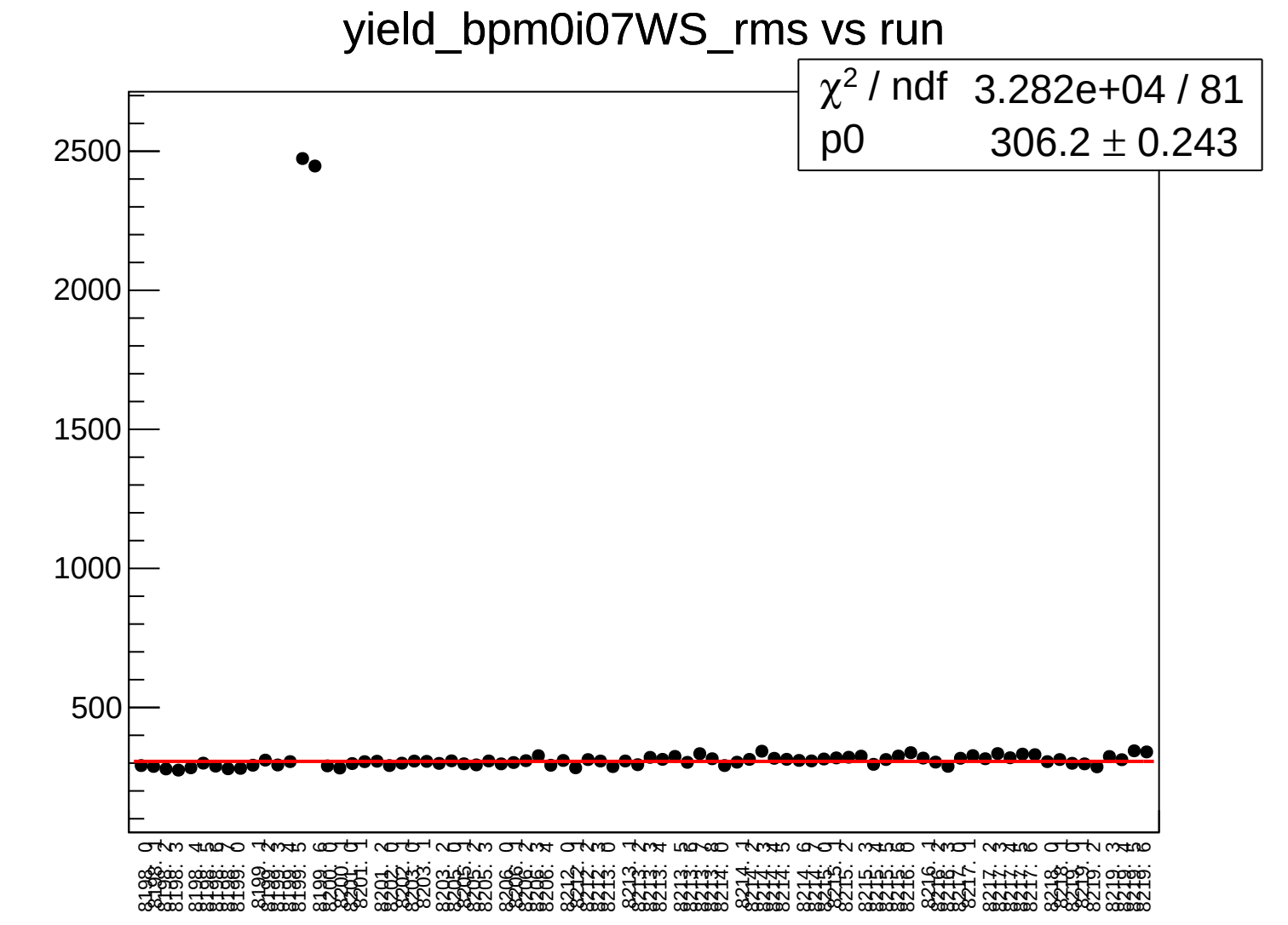

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 1.55e+05 / 81
p0 1.408e+05 ± 0.3495
141
140.5
140
139.5
139
138.5
138
pull
Entries 82
Mean 157.8
Std Dev 0
100
50
0
−50
−100

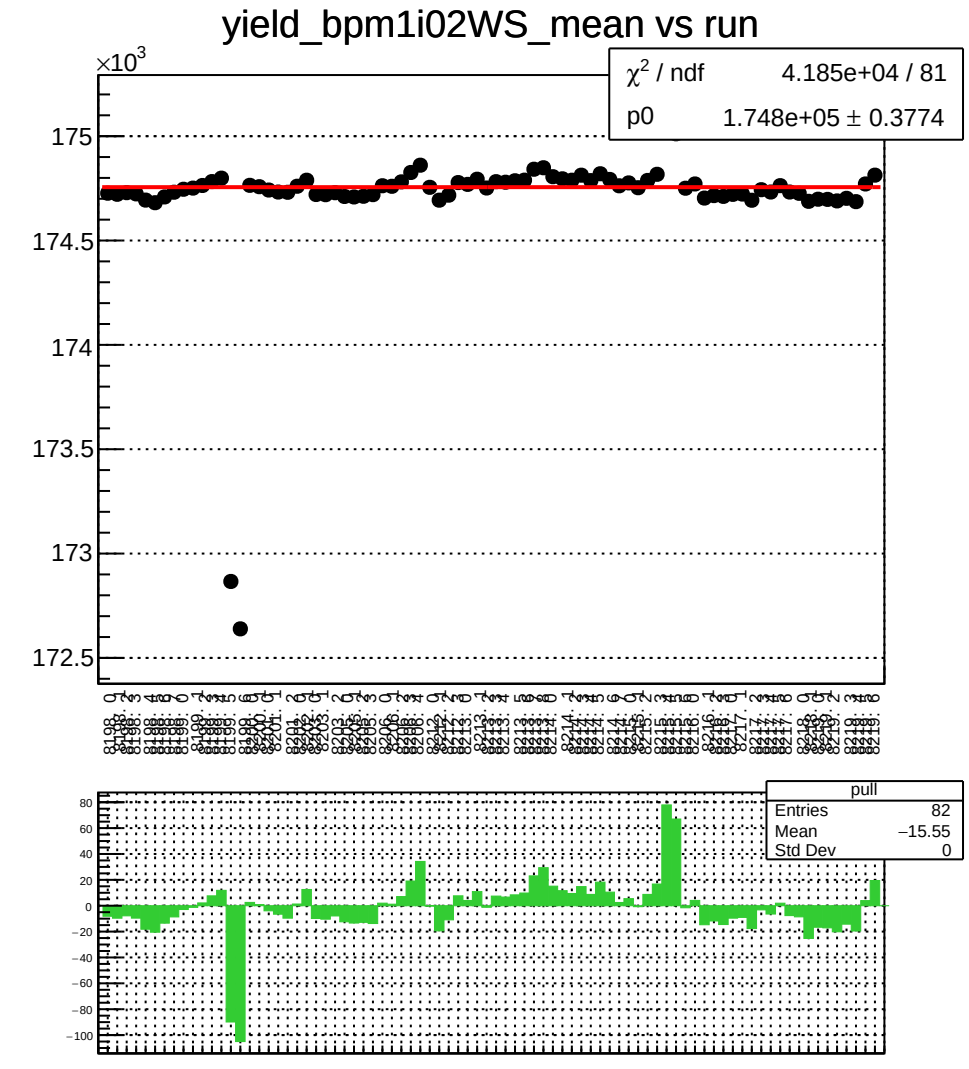

pull1D
Entries 82
Mean −1.807
Std Dev 4.695
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

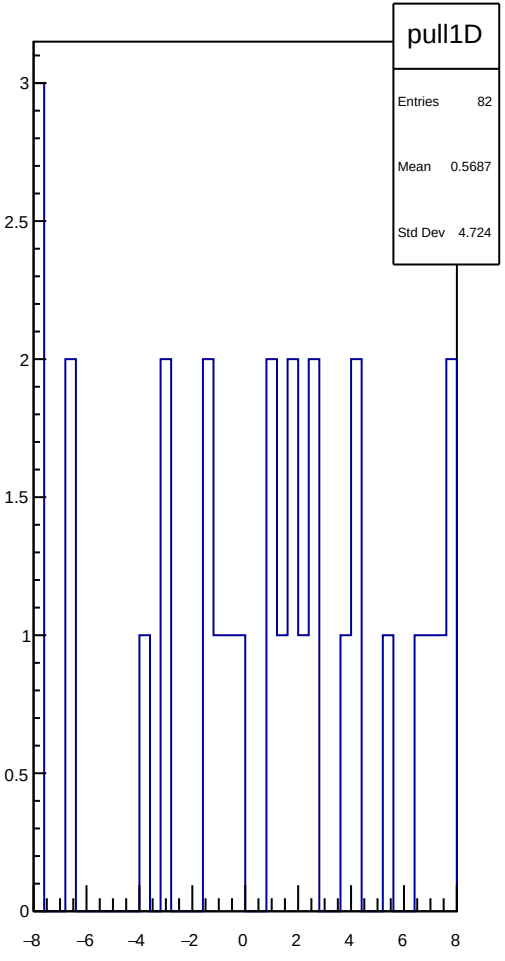

yield_bpm0i05WS_rms vs run
χ² / ndf 3.311e+04 / 81
p0 311.4 ± 0.2471
2500
2000
1500
1000
500

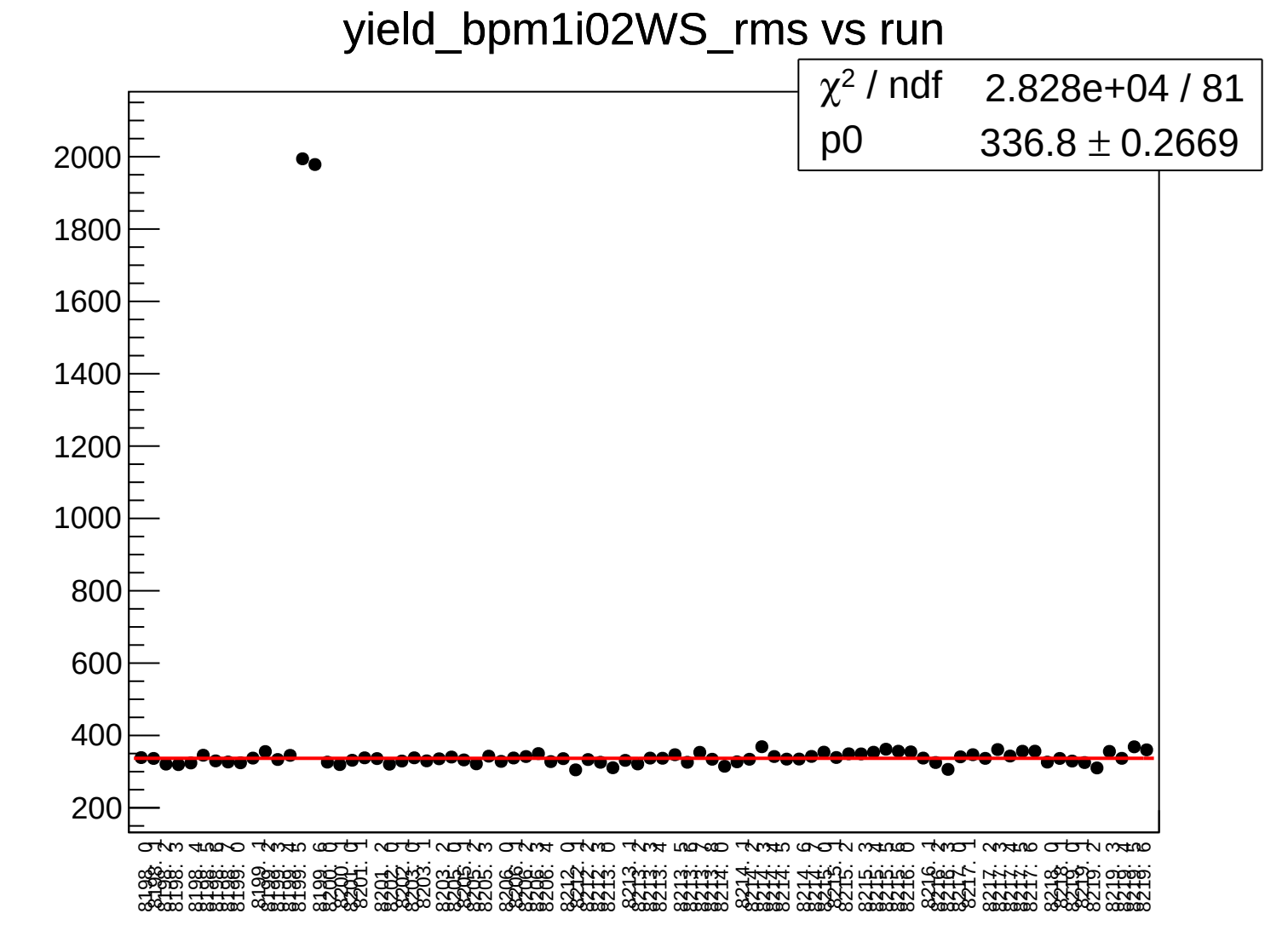

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 4.059e+04 / 81
p0 1.418e+05 ± 0.3436
142
141.5
141
140.5
140
139.5
139
pull
Entries 82
Mean 69.76
Std Dev 0
40
20
0
−20
−40
−60
−80
−100

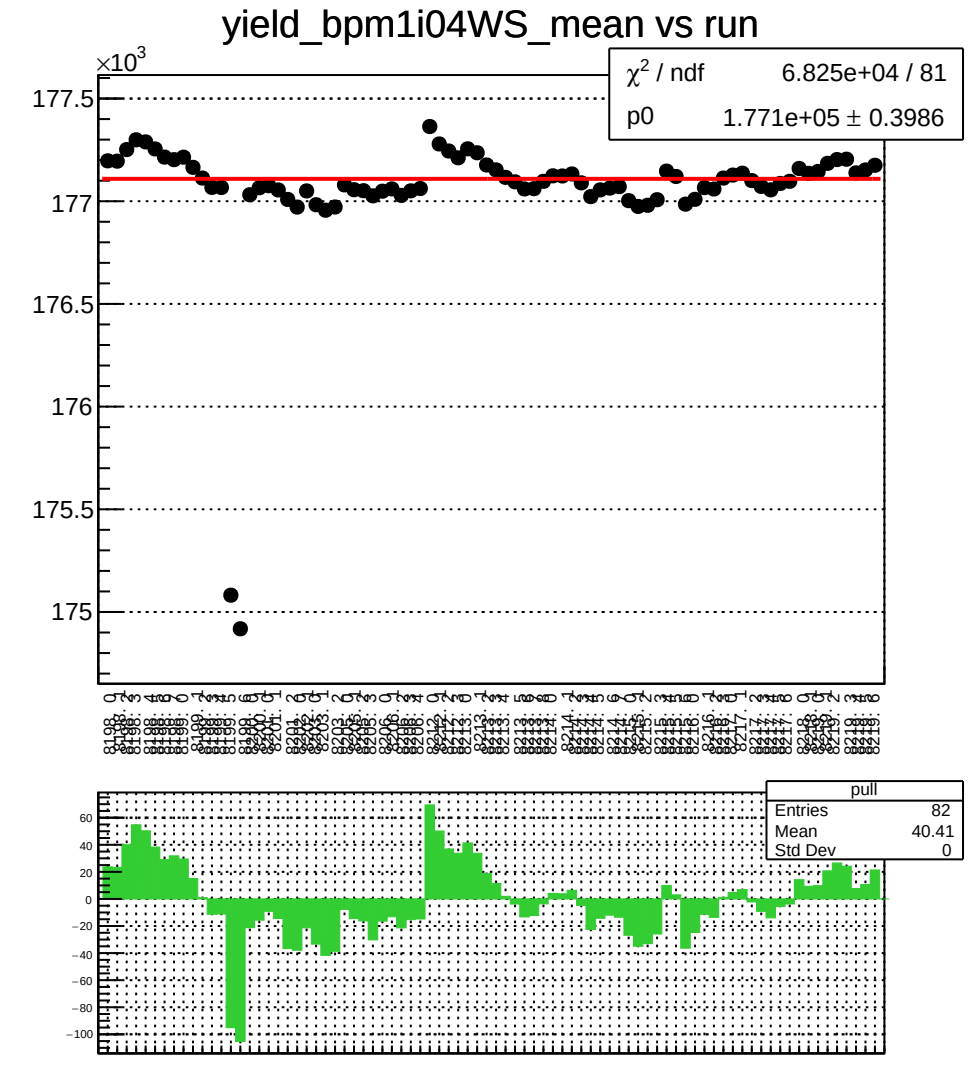

pull1D
Entries 82
Mean 1.308
Std Dev 4.405
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

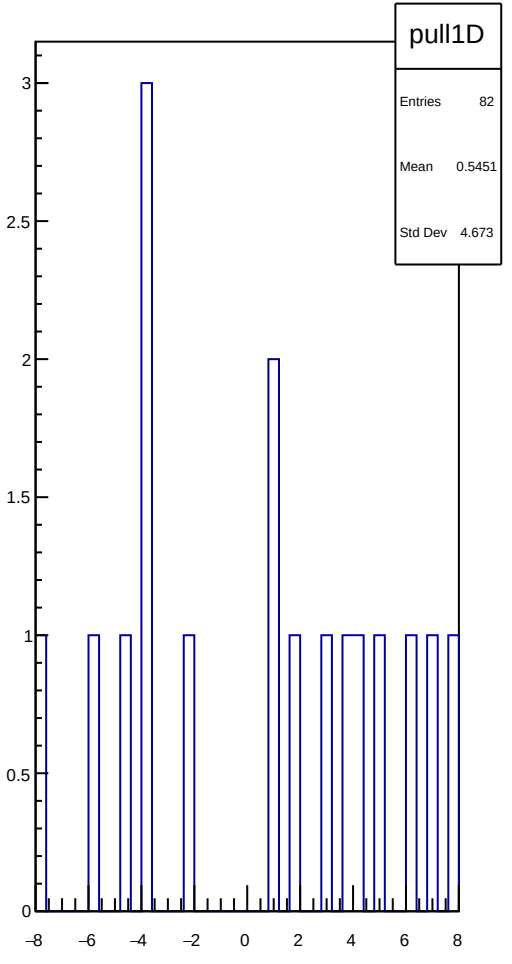

yield_bpm0i07WS_rms vs run
χ² / ndf 3.282e+04 / 81
p0 306.2 ± 0.243
2500
2000
1500
1000
500

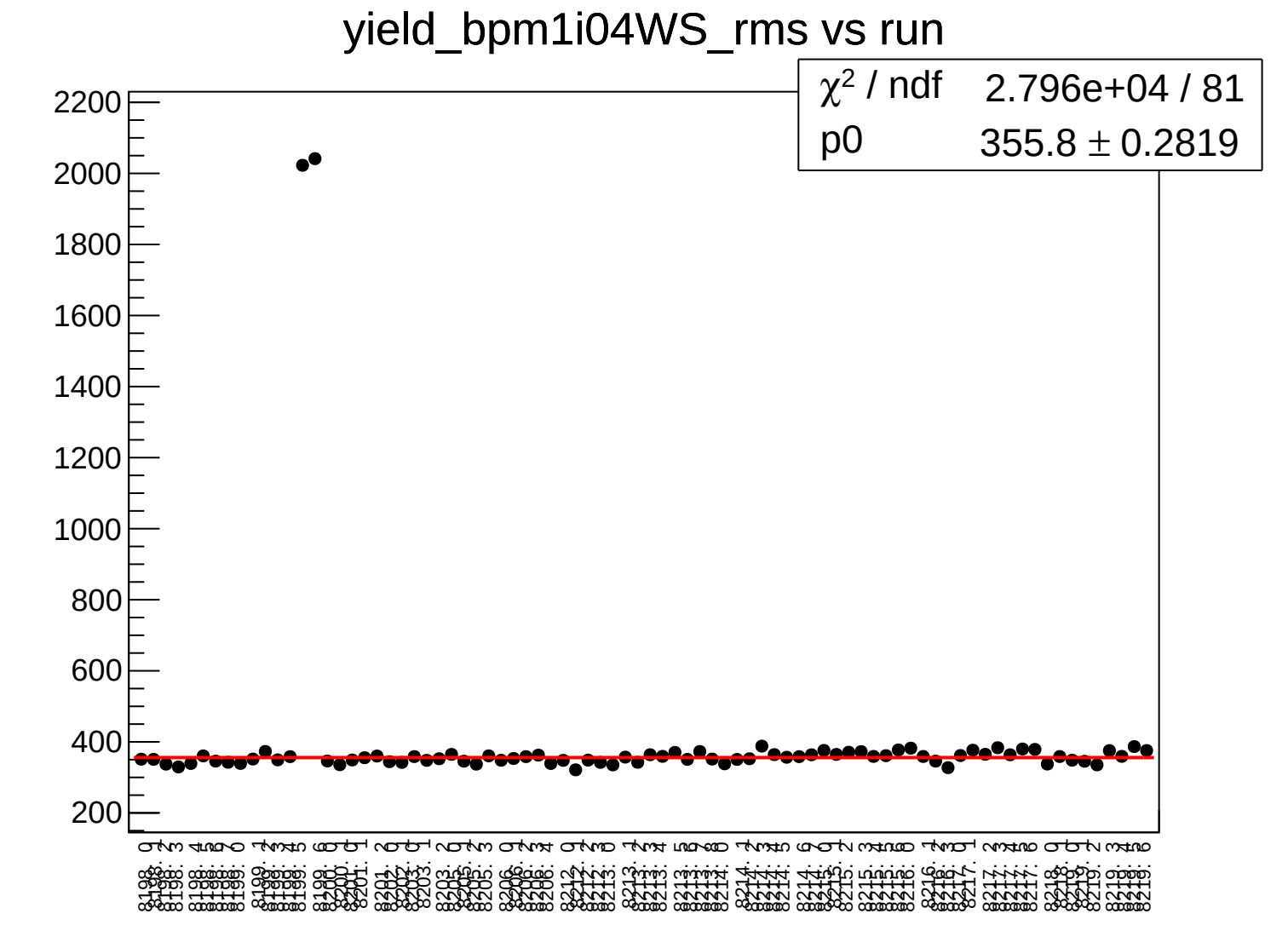

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 4.185e+04 / 81
p0 1.748e+05 ± 0.3774
175
174.5
174
173.5
173
172.5
pull
Entries 82
Mean −15.55
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

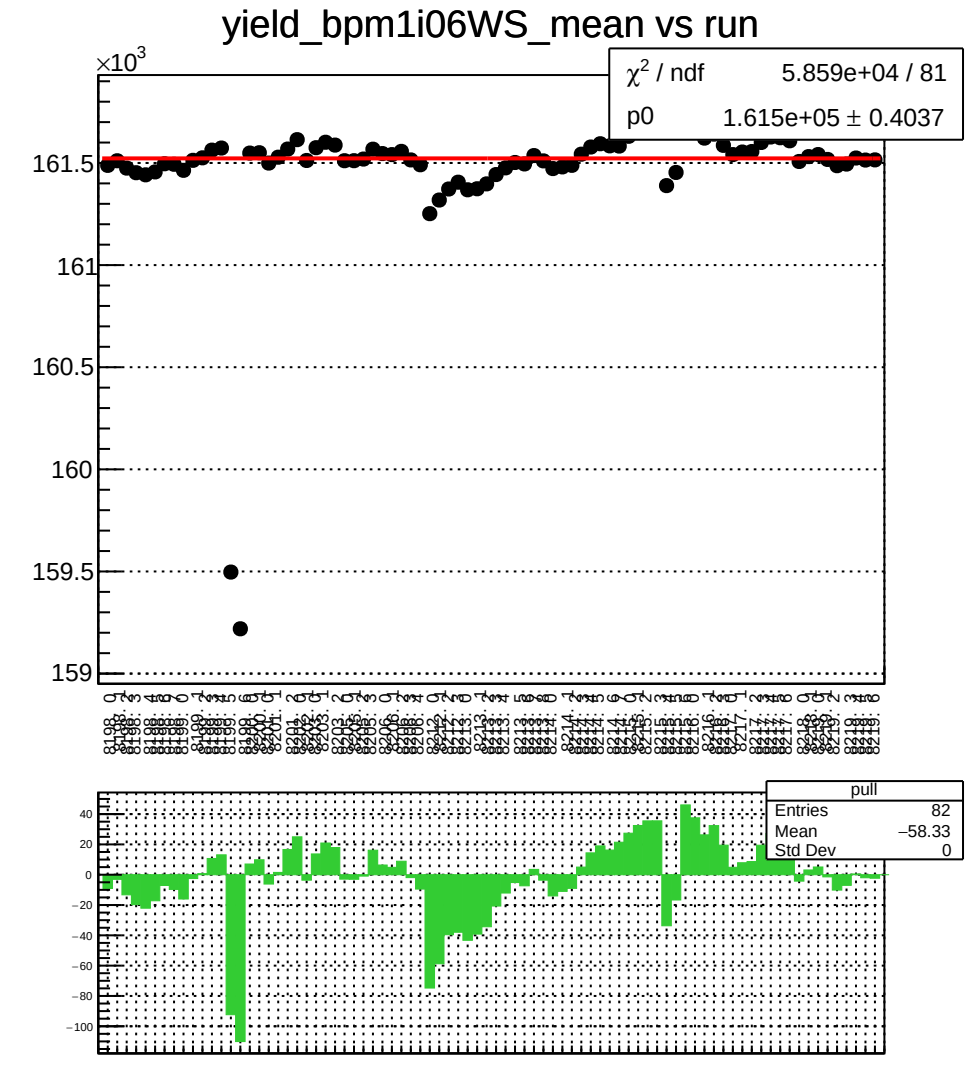

pull1D
Entries 82
Mean 0.5687
Std Dev 4.724
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

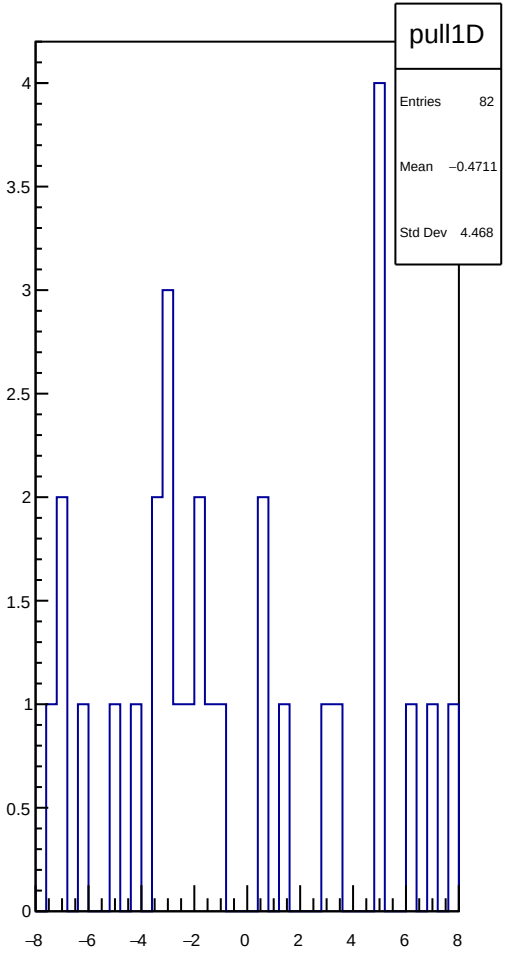

yield_bpm1i02WS_rms vs run
χ² / ndf 2.828e+04 / 81
p0 336.8 ± 0.2669
2000
1800
1600
1400
1200
1000
800
600
400
200

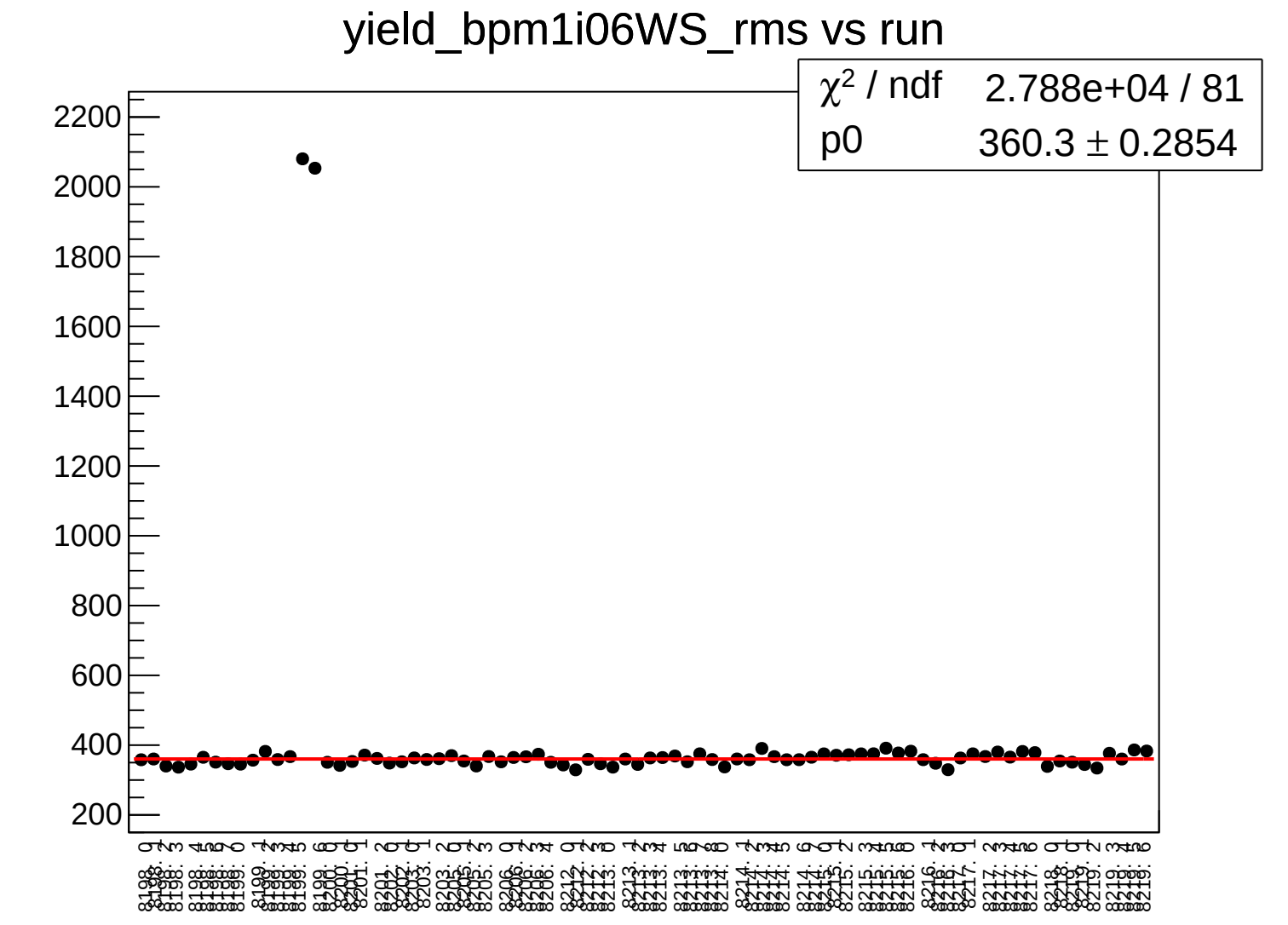

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 6.825e+04 / 81
p0 1.771e+05 ± 0.3986
177.5
177
176.5
176
175.5
175
pull
Entries 82
Mean 40.41
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

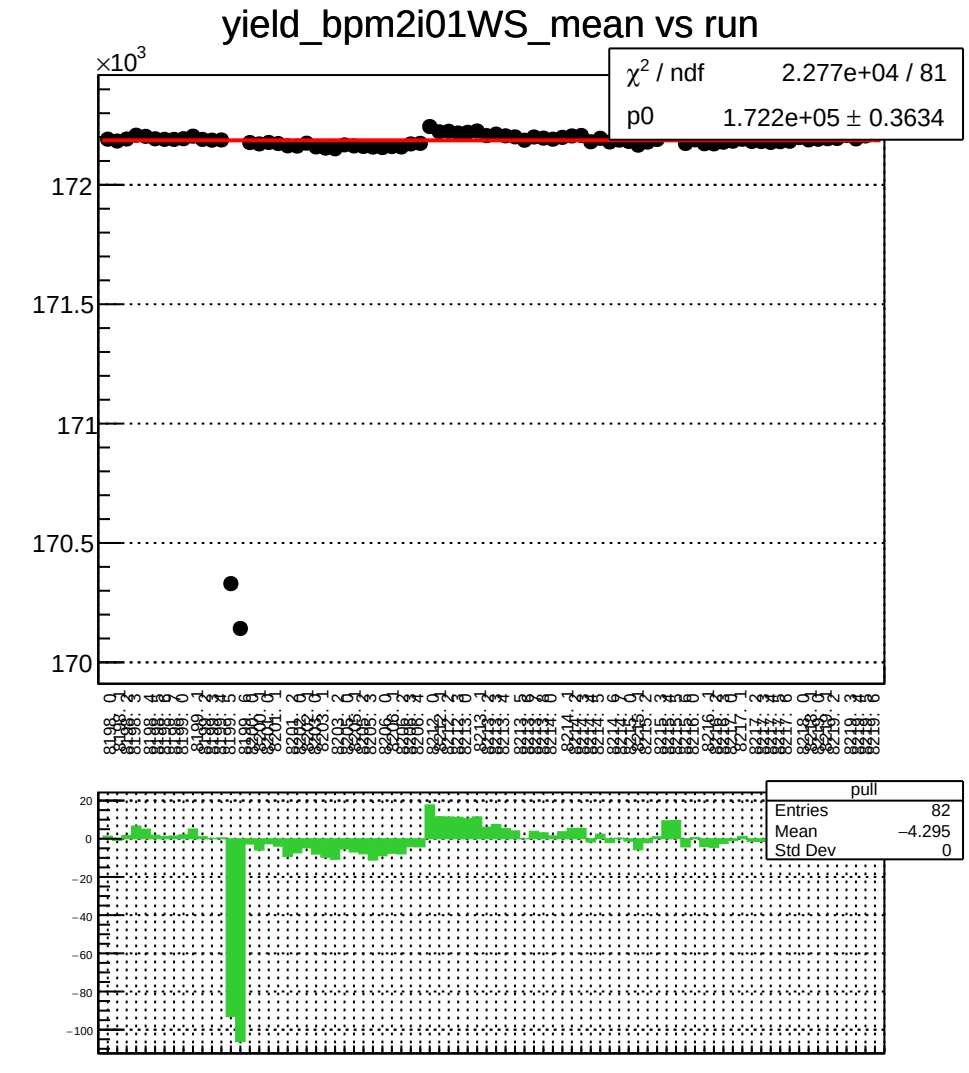

pull1D
Entries 82
Mean 0.5451
Std Dev 4.673
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

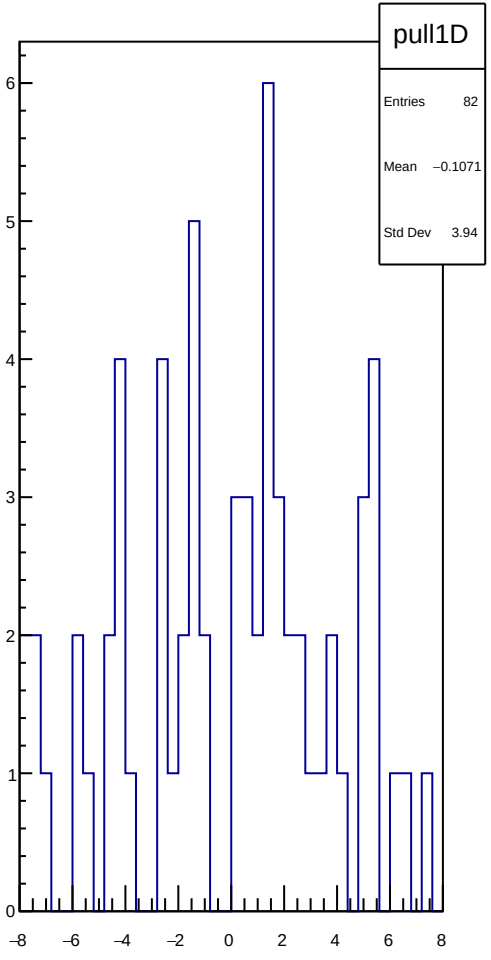

yield_bpm1i04WS_rms vs run
χ² / ndf 2.796e+04 / 81
p0 355.8 ± 0.2819
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

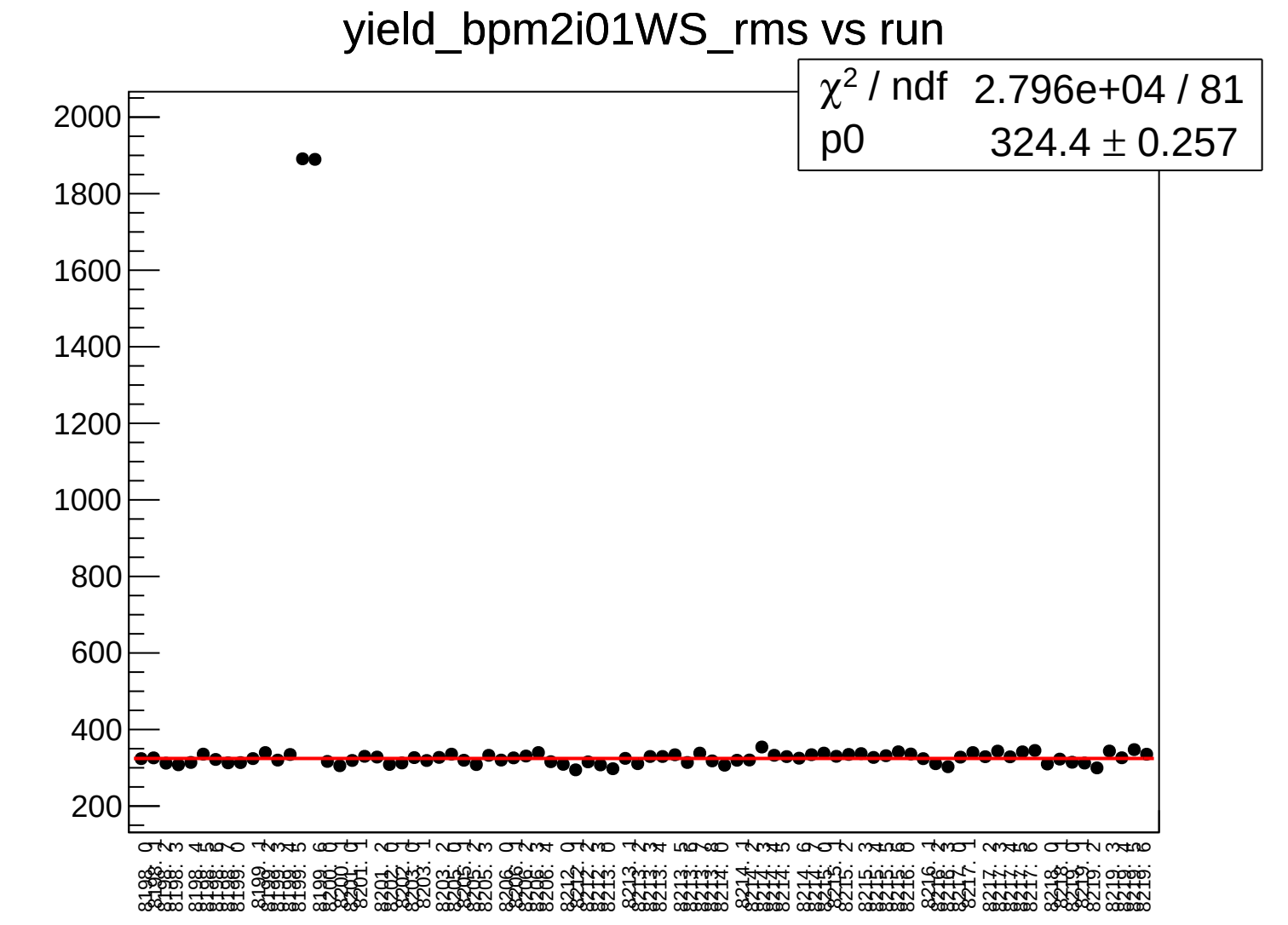

yield_bpm1i06WS_mean vs run
×10^3
χ^2 / ndf 5.859e+04 / 81
p0 1.615e+05 ± 0.4037
161.5
161
160.5
160
159.5
159
pull
Entries 82
Mean −58.33
Std Dev 0
40
20
0
−20
−40
−60
−80
−100

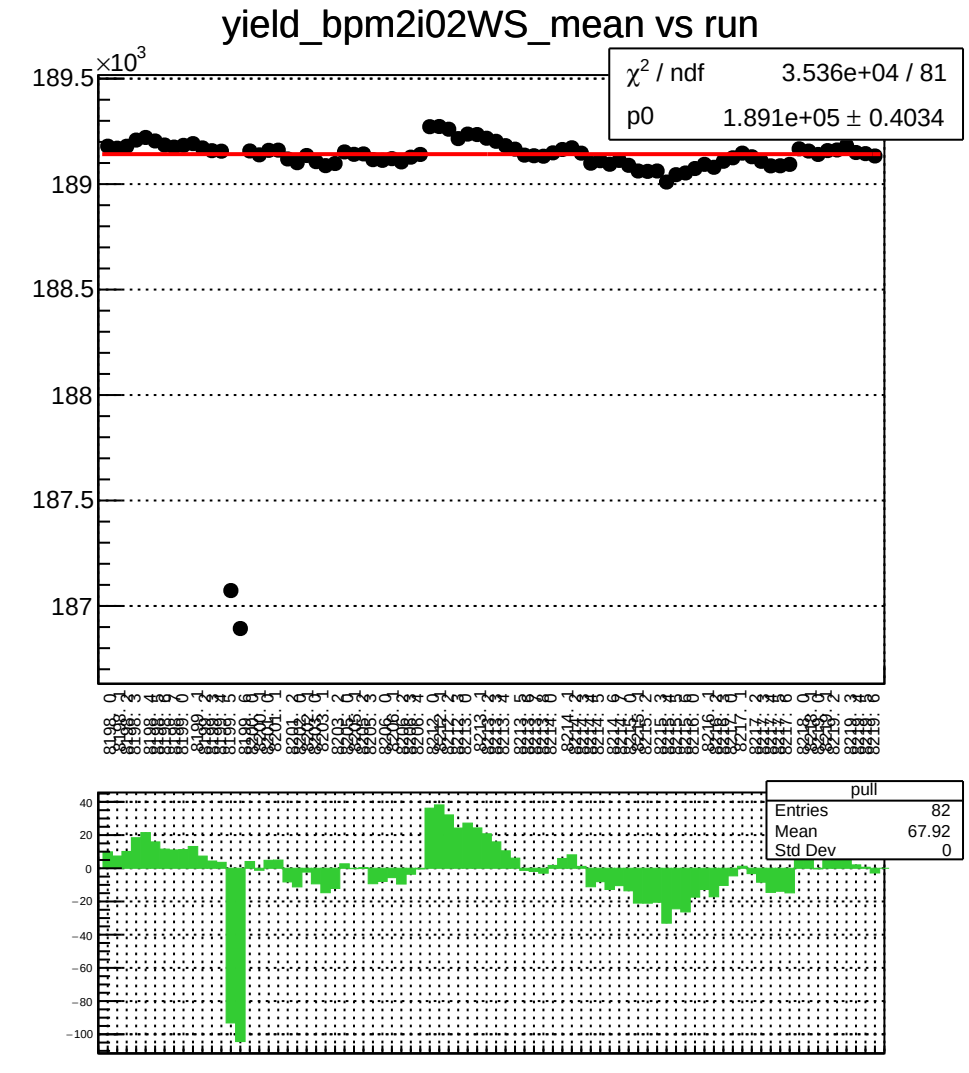

pull1D
Entries 82
Mean −0.4711
Std Dev 4.468
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

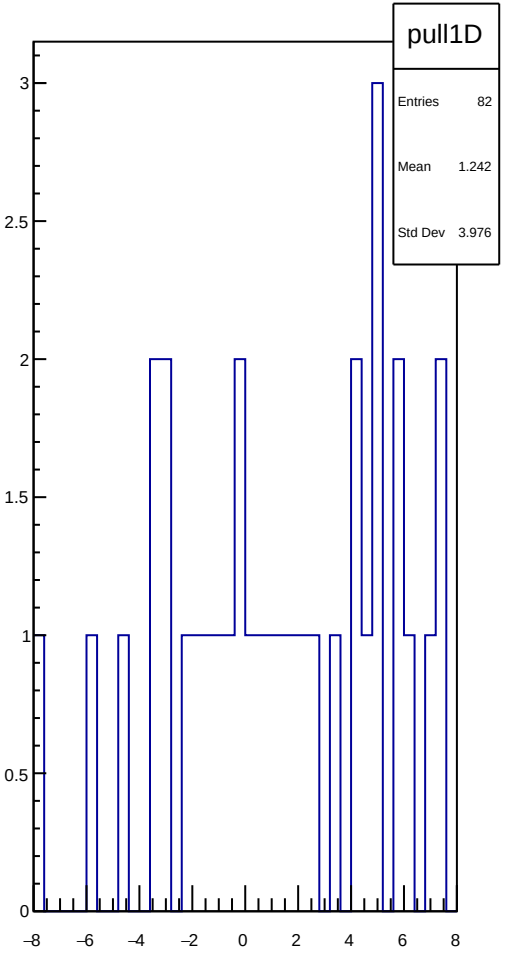

yield_bpm1i06WS_rms vs run
χ² / ndf 2.788e+04 / 81
p0 360.3 ± 0.2854
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

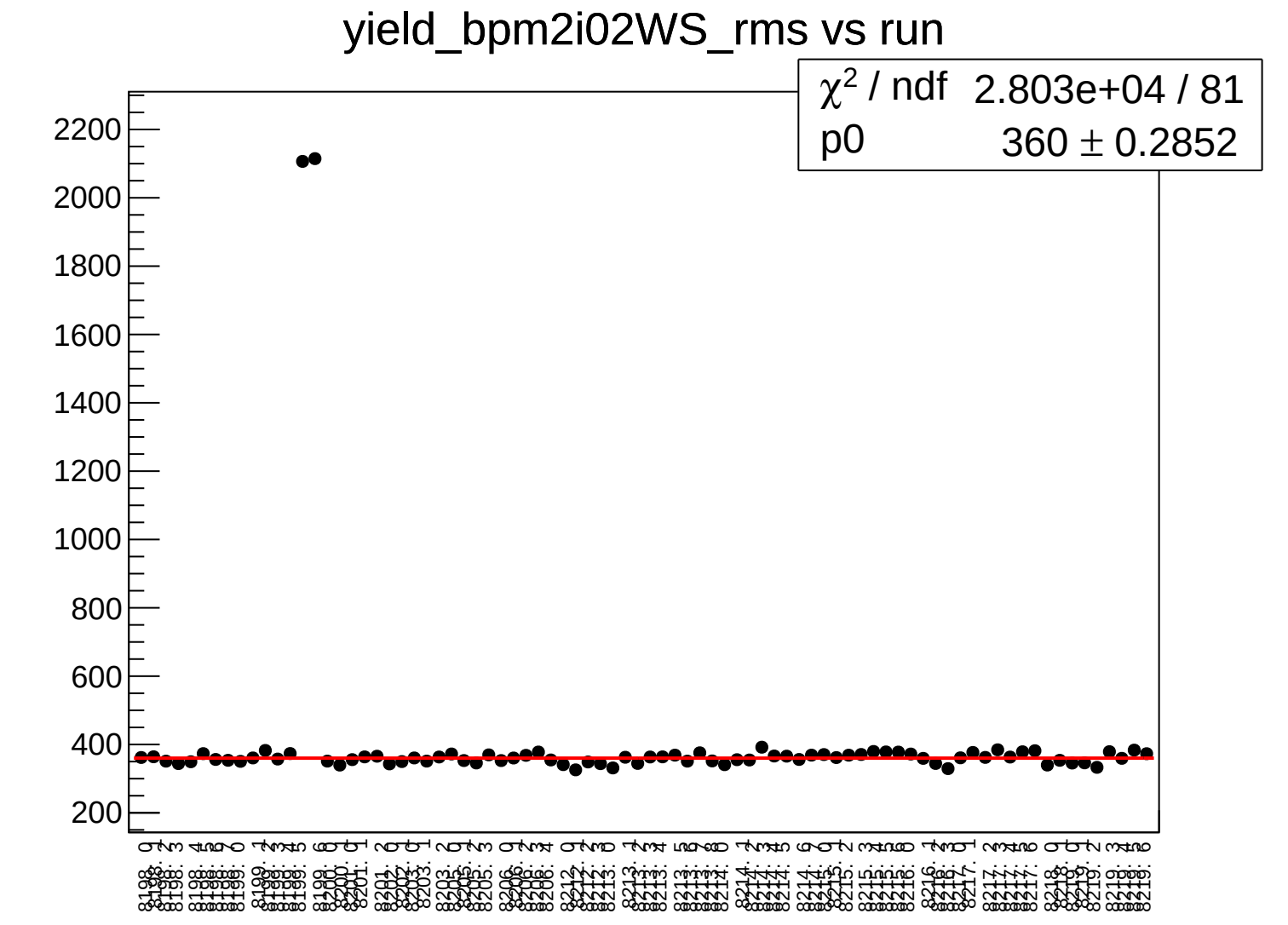

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.277e+04 / 81
p0 1.722e+05 ± 0.3634
172
171.5
171
170.5
170
pull
Entries 82
Mean −4.295
Std Dev 0
20
0
−20
−40
−60
−80
−100

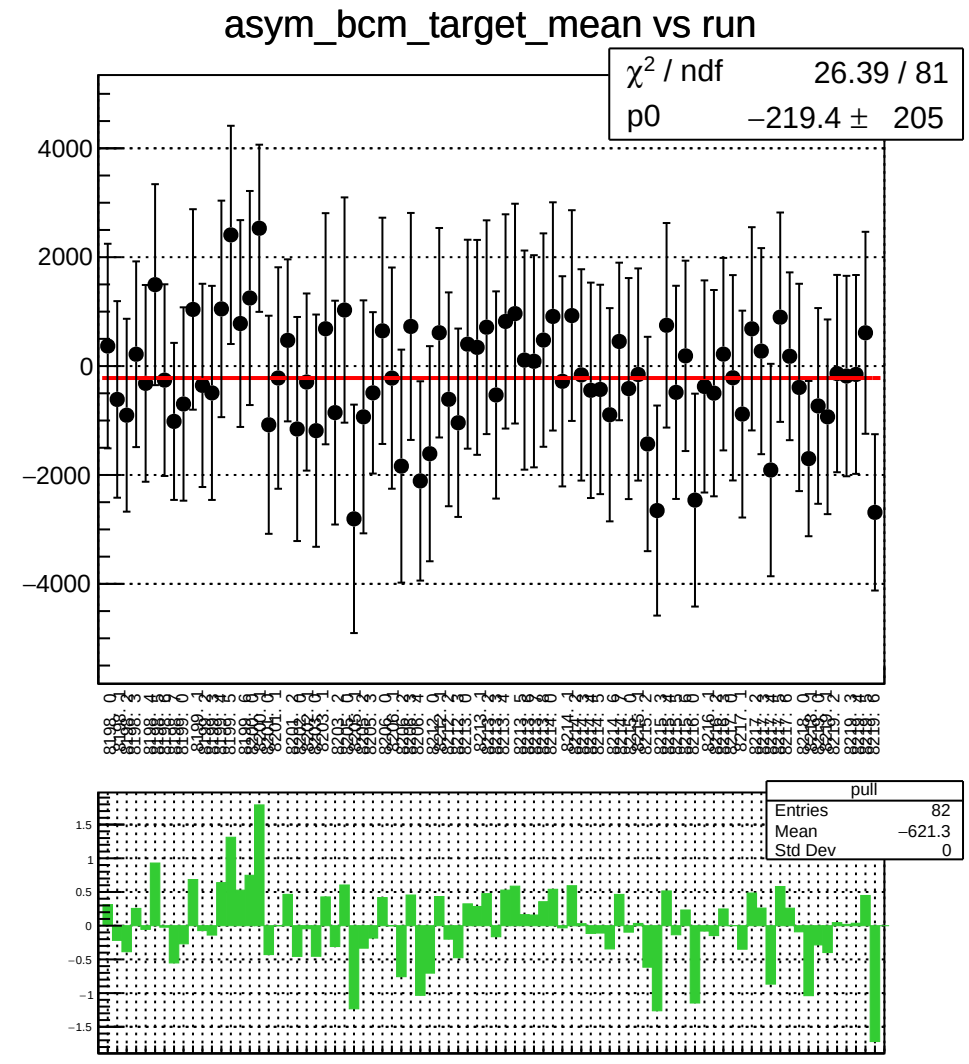

pull1D
Entries 82
Mean −0.1071
Std Dev 3.94
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

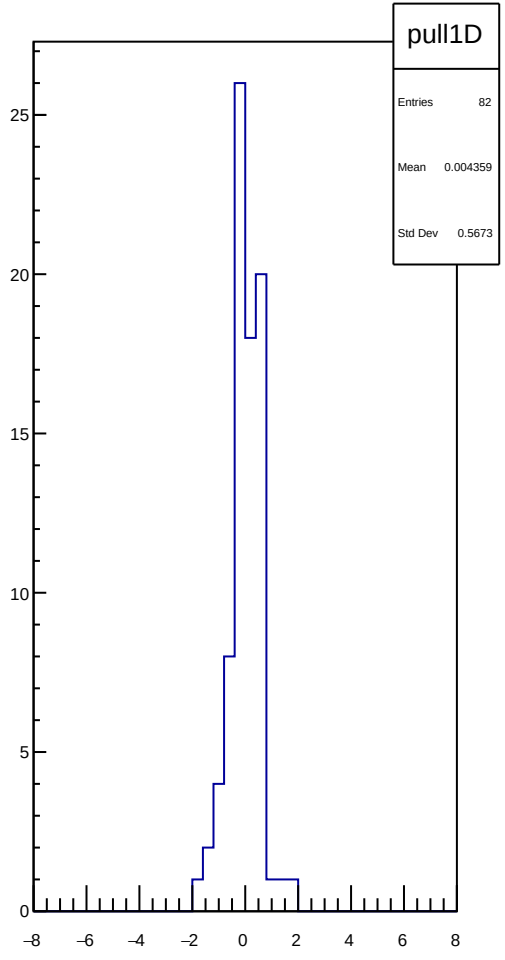

yield_bpm2i01WS_rms vs run
χ² / ndf 2.796e+04 / 81
p0 324.4 ± 0.257
2000
1800
1600
1400
1200
1000
800
600
400
200

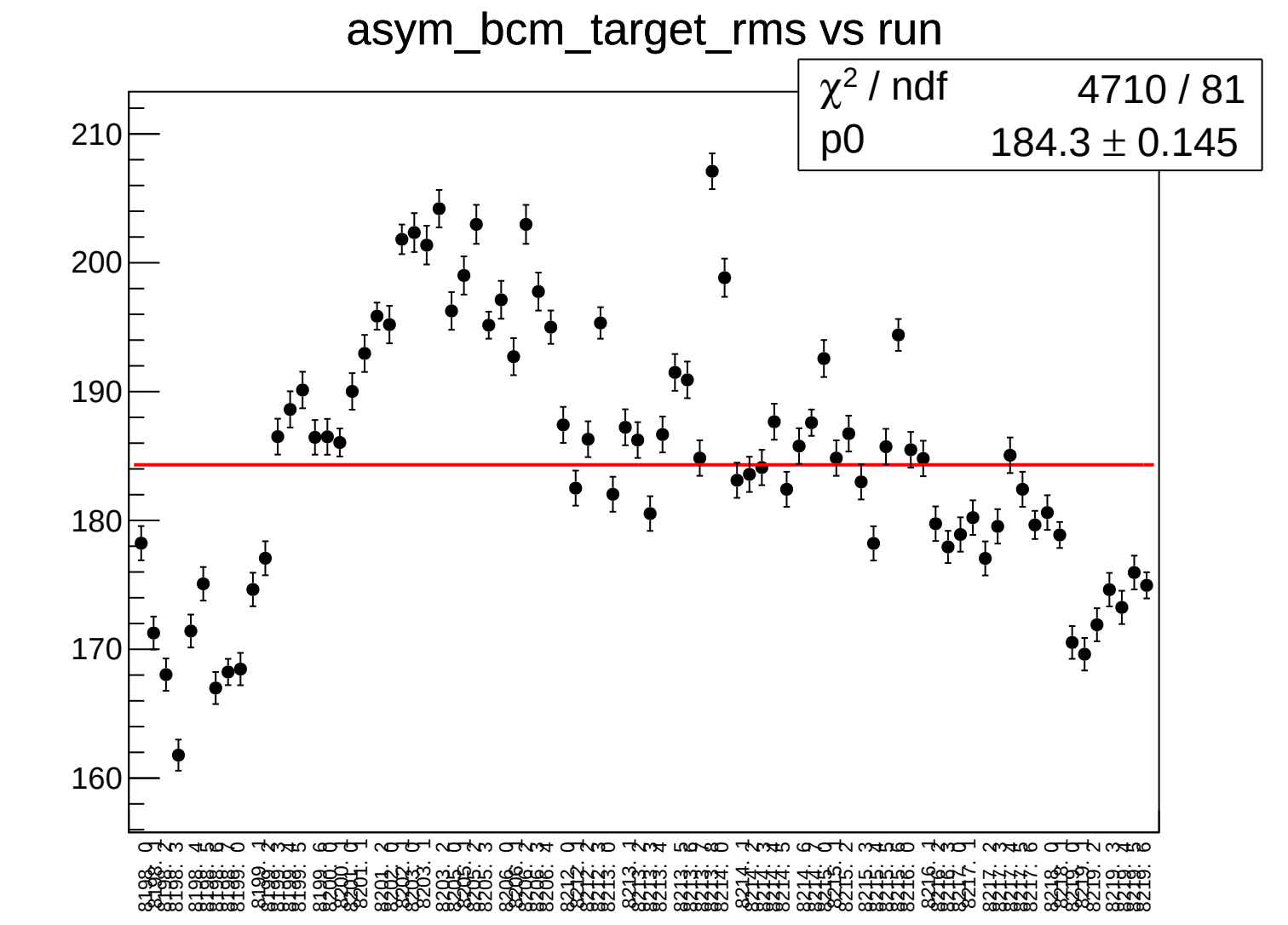

yield_bpm2i02WS_mean vs run
×10^3
189.5
189
188.5
188
187.5
187
χ² / ndf 3.536e+04 / 81
p0 1.891e+05 ± 0.4034
pull
Entries 82
Mean 67.92
Std Dev 0
40
20
0
−20
−40
−60
−80
−100

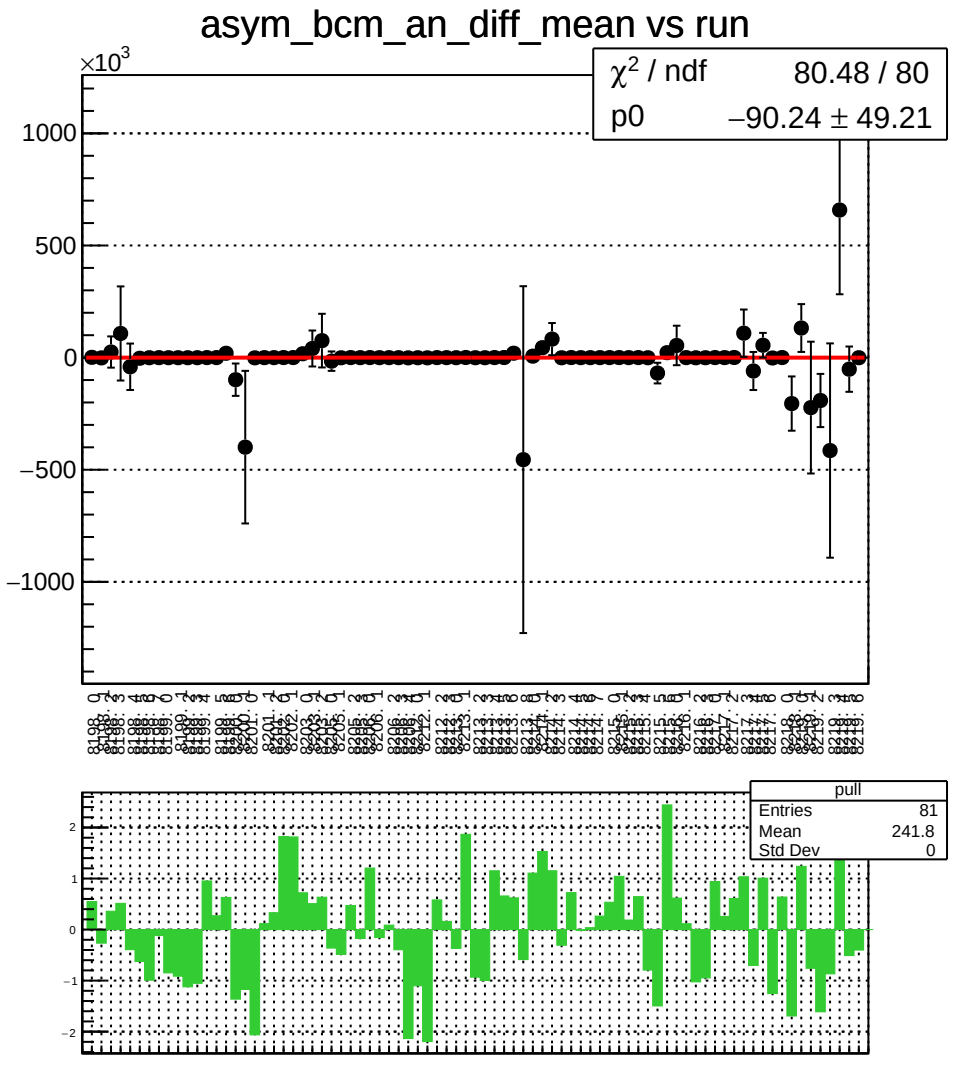

pull1D
Entries 82
Mean 1.242
Std Dev 3.976
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

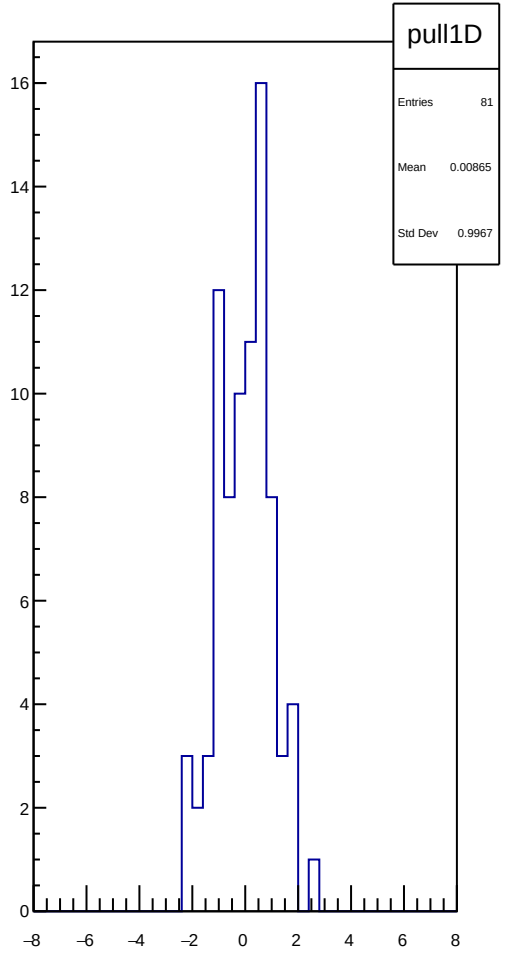

yield_bpm2i02WS_rms vs run
χ² / ndf 2.803e+04 / 81
p0 360 ± 0.2852
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

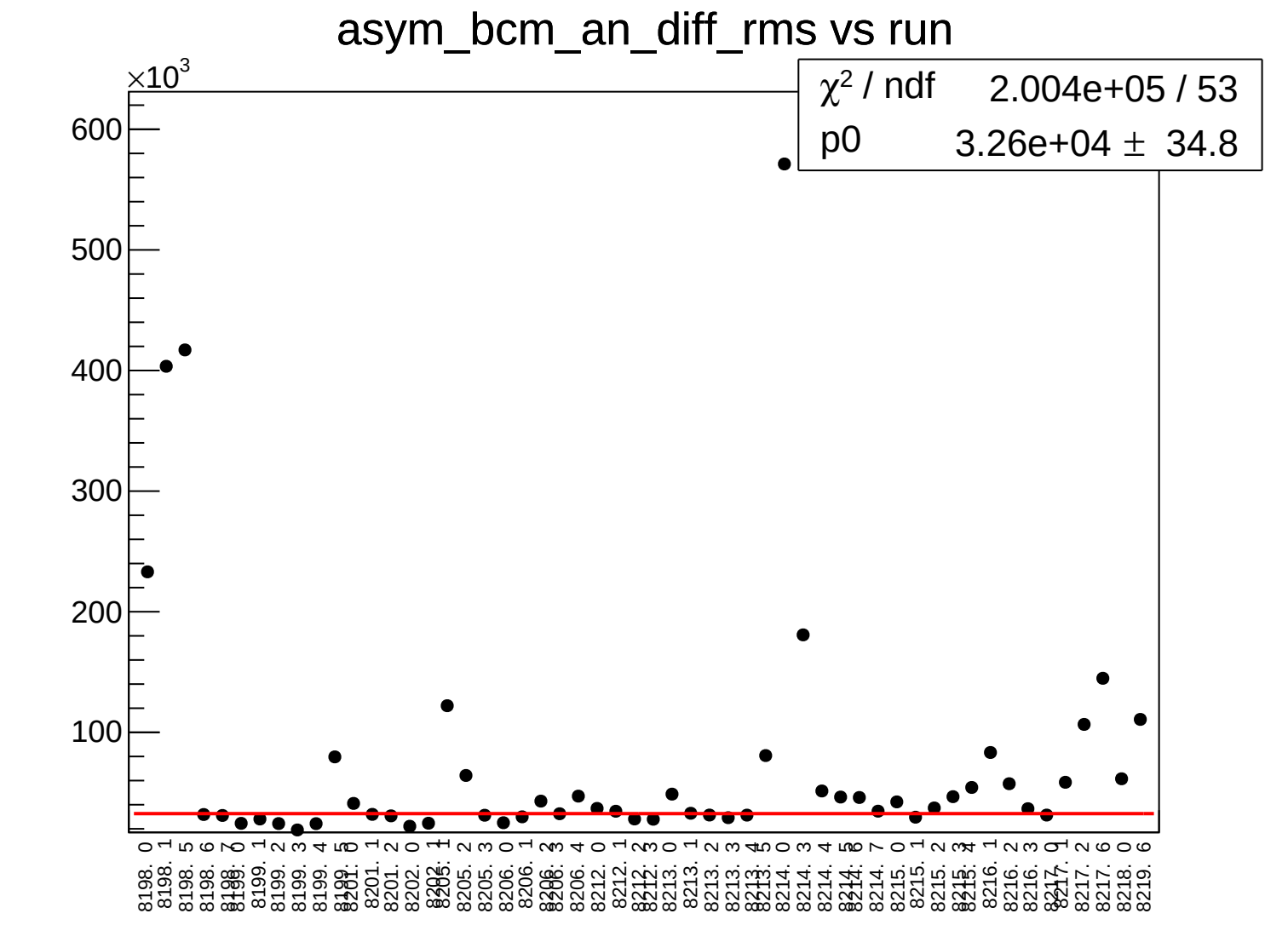

asym_bcm_target_mean vs run
χ² / ndf 26.39 / 81
p0 −219.4 ± 205
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −621.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

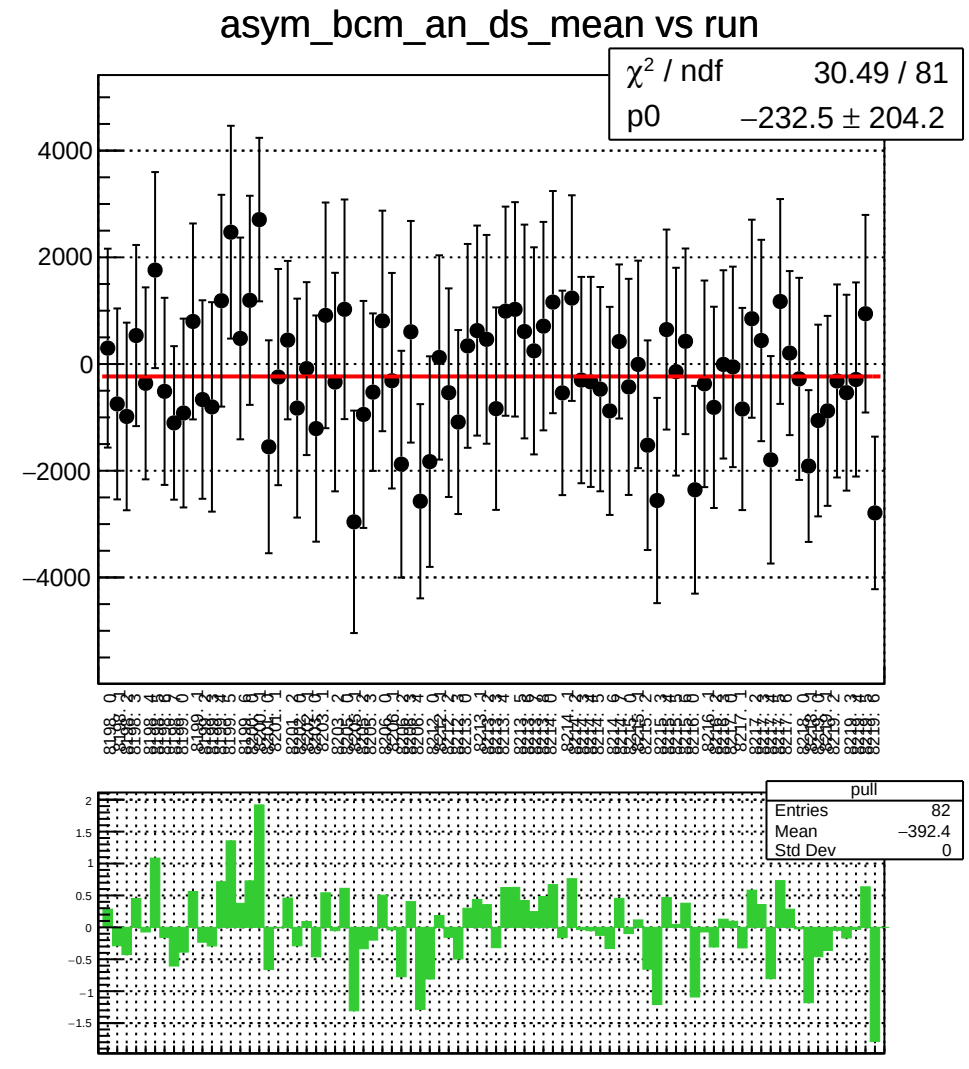

pull1D
Entries 82
Mean 0.004359
Std Dev 0.5673
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

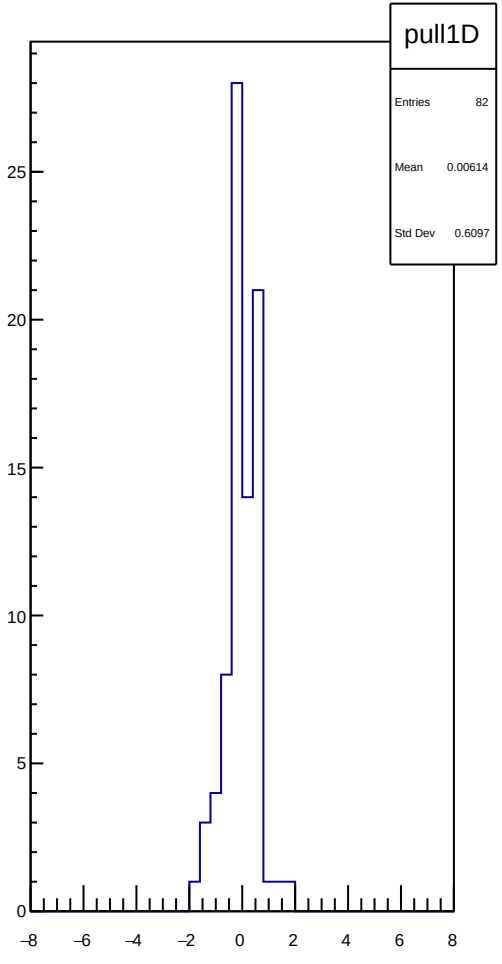

asym_bcm_target_rms vs run
χ² / ndf 4710 / 81
p0 184.3 ± 0.145
210
200
190
180
170
160

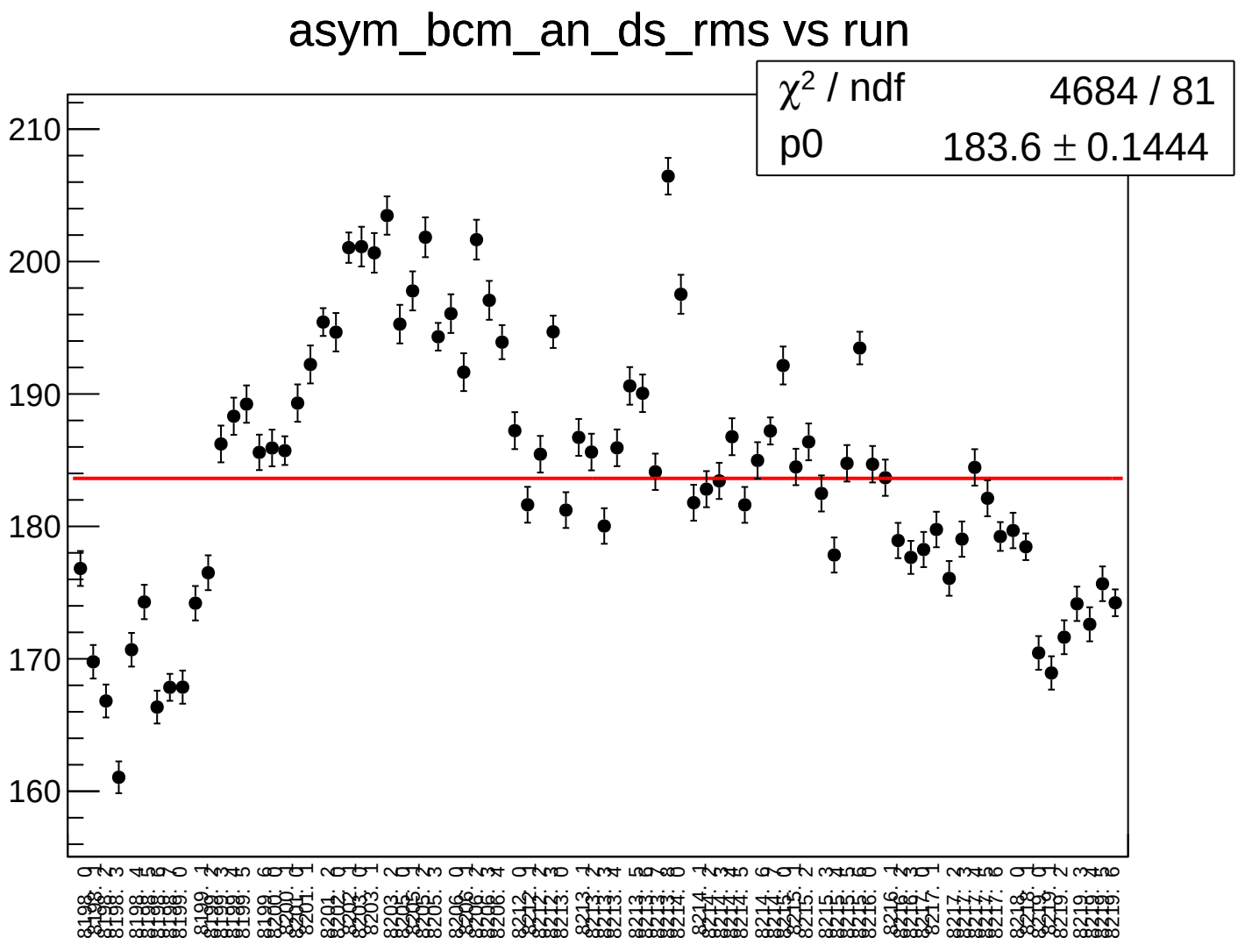

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 80.48 / 80
p0 −90.24 ± 49.21
1000
500
0
−500
−1000
pull
Entries 81
Mean 241.8
Std Dev 0
2
1
0
−1
−2

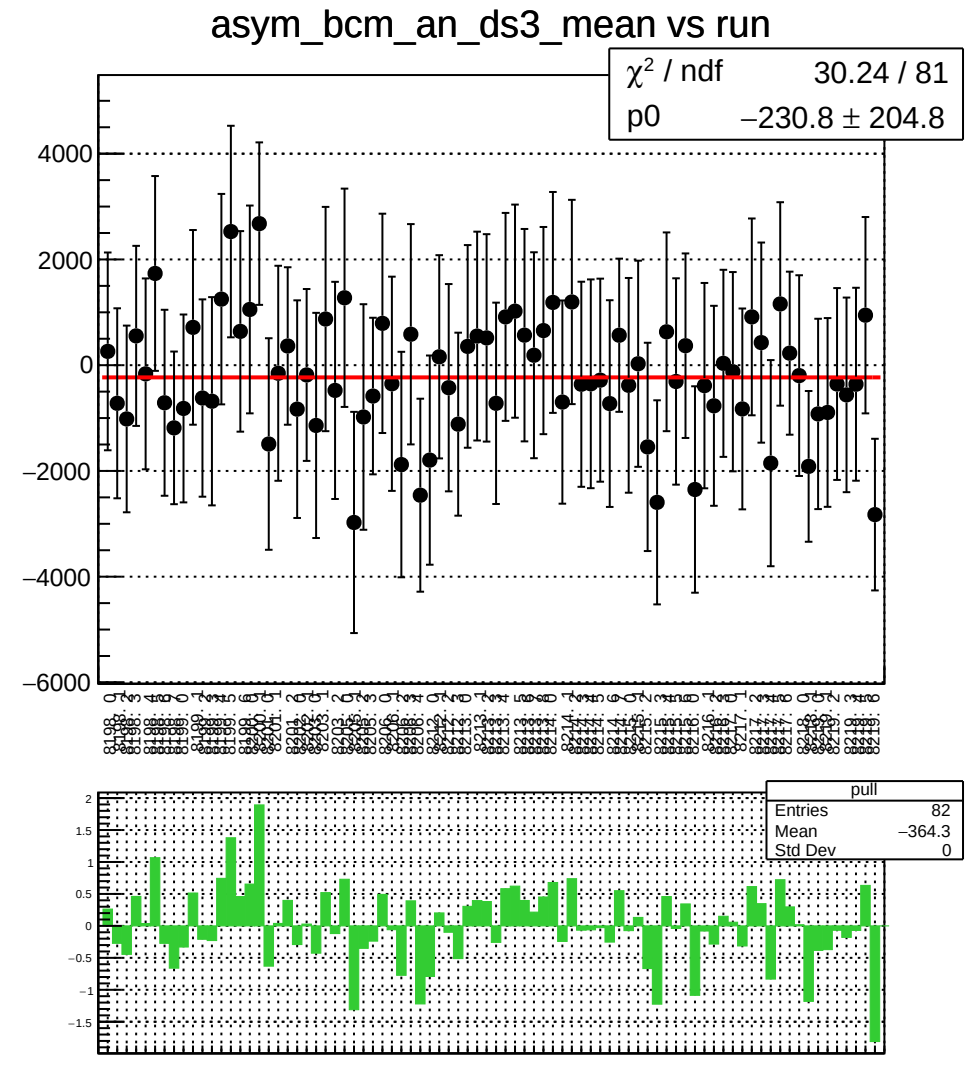

pull1D
Entries 81
Mean 0.00865
Std Dev 0.9967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

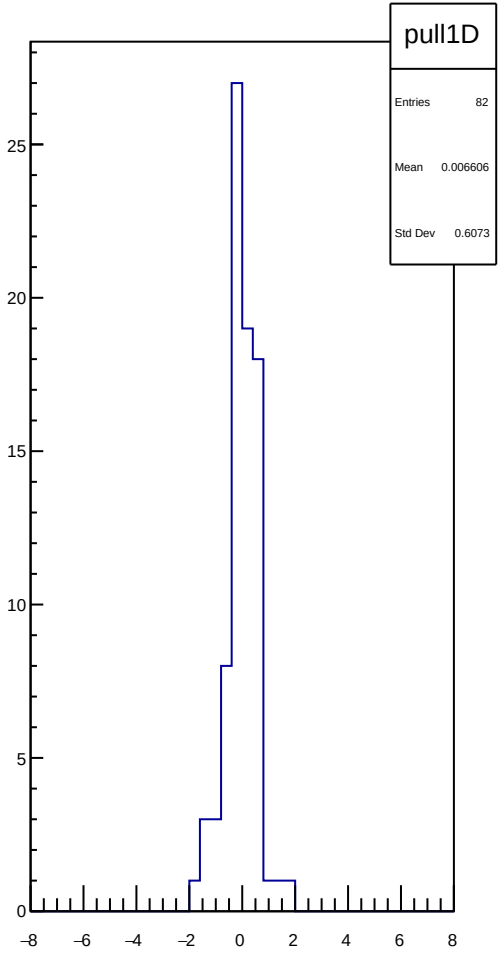

asym_bcm_an_diff_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 2.004e+05 / 53
p0 3.26e+04 ± 34.8
8198. 0
8198. 1
8198. 5
8198. 6
8199. 1
8199. 2
8199. 3
8199. 4
8201. 1
8201. 2
8202. 0
8205. 2
8205. 3
8206. 0
8206. 1
8206. 4
8212. 0
8212. 1
8213. 0
8213. 1
8213. 2
8213. 3
8214. 0
8214. 3
8214. 4
8214. 7
8215. 0
8215. 1
8215. 2
8216. 1
8216. 2
8216. 3
8217. 1
8217. 2
8217. 6
8218. 0
8219. 6

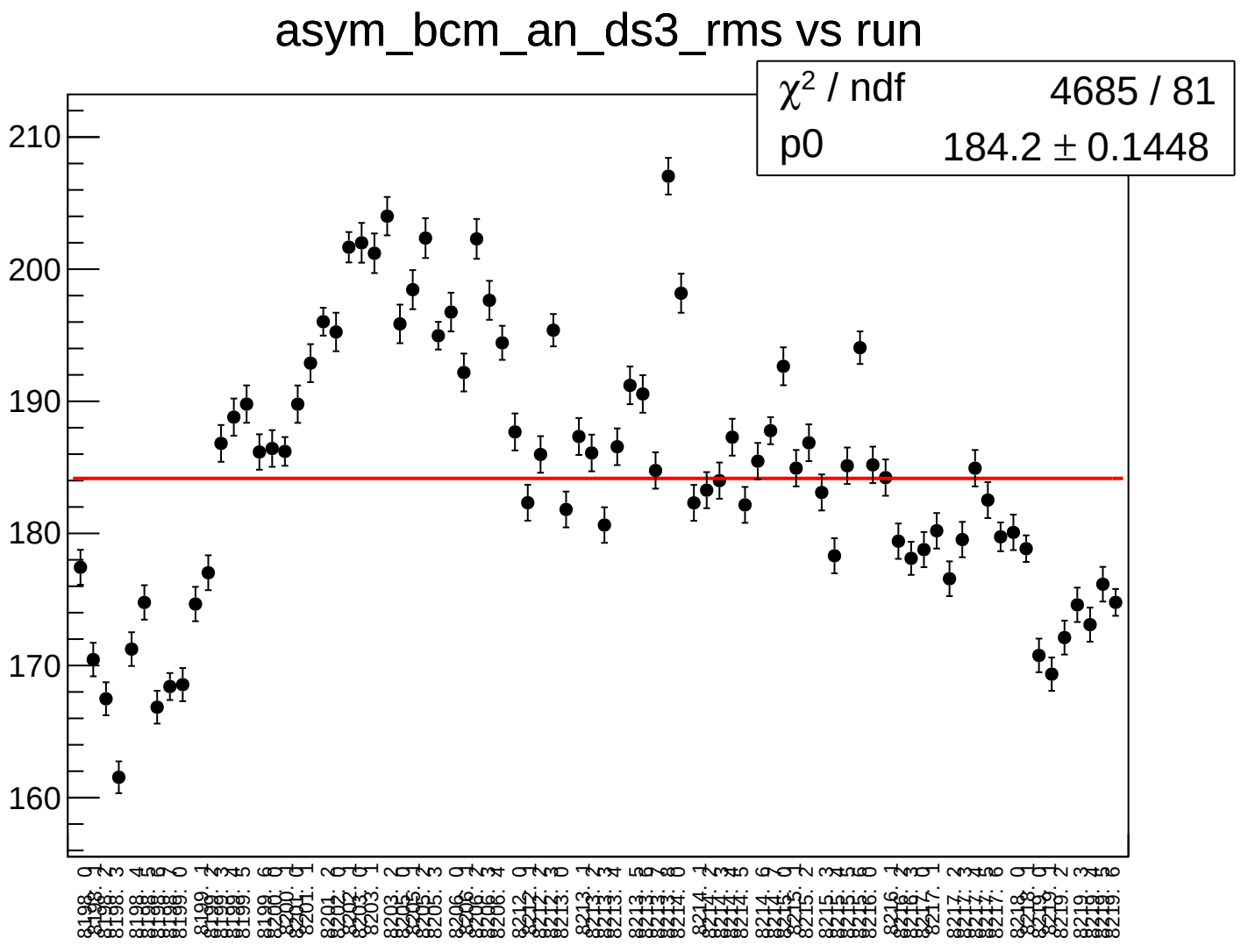

asym_bcm_an_ds_mean vs run
χ² / ndf 30.49 / 81
p0 −232.5 ± 204.2
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −392.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

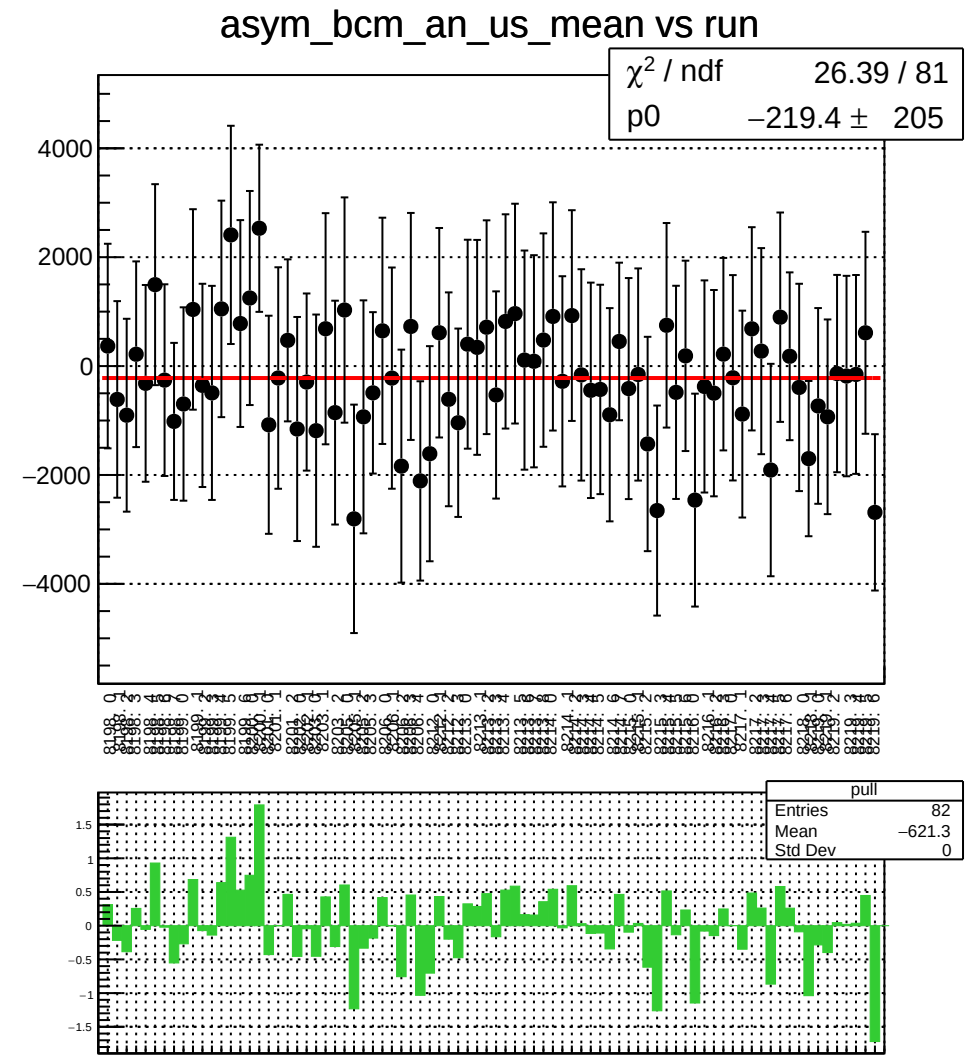

pull1D
Entries 82
Mean 0.00614
Std Dev 0.6097
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

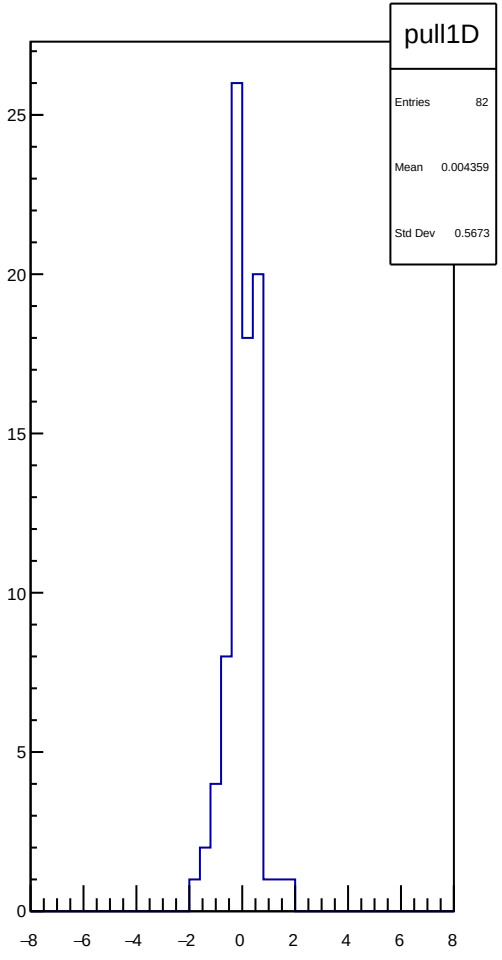

asym_bcm_an_ds_rms vs run
χ² / ndf 4684 / 81
p0 183.6 ± 0.1444
210
200
190
180
170
160

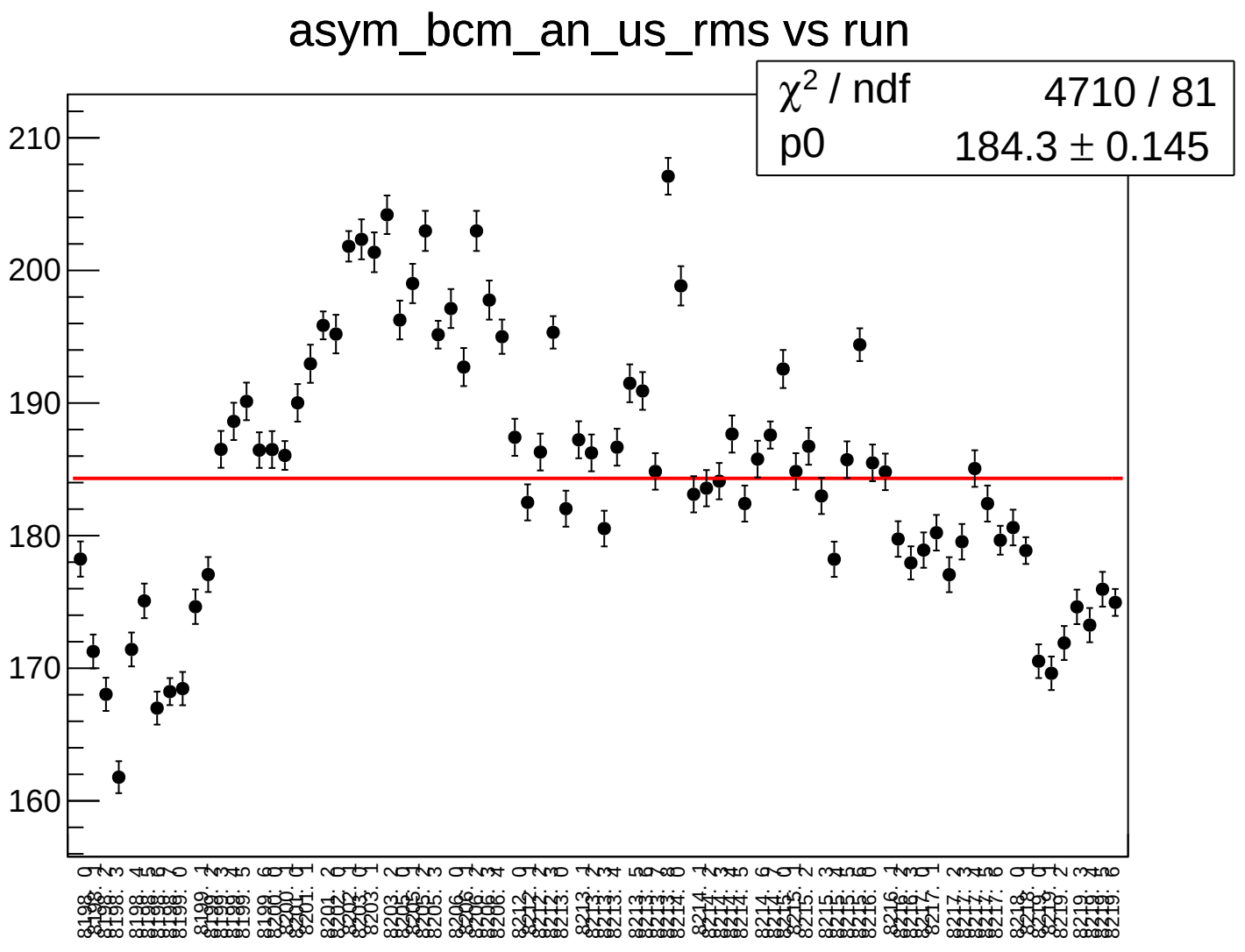

asym_bcm_an_ds3_mean vs run
χ² / ndf 30.24 / 81
p0 −230.8 ± 204.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −364.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

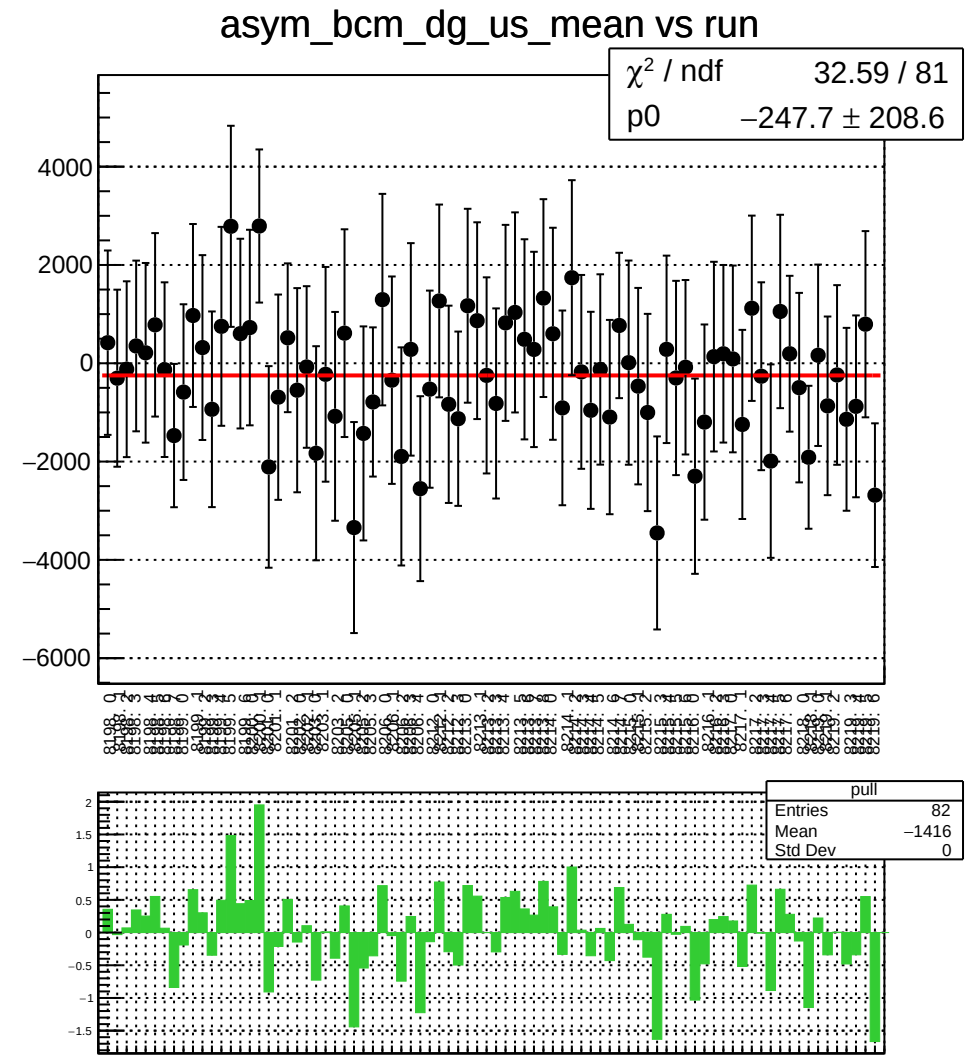

pull1D
Entries 82
Mean 0.006606
Std Dev 0.6073
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

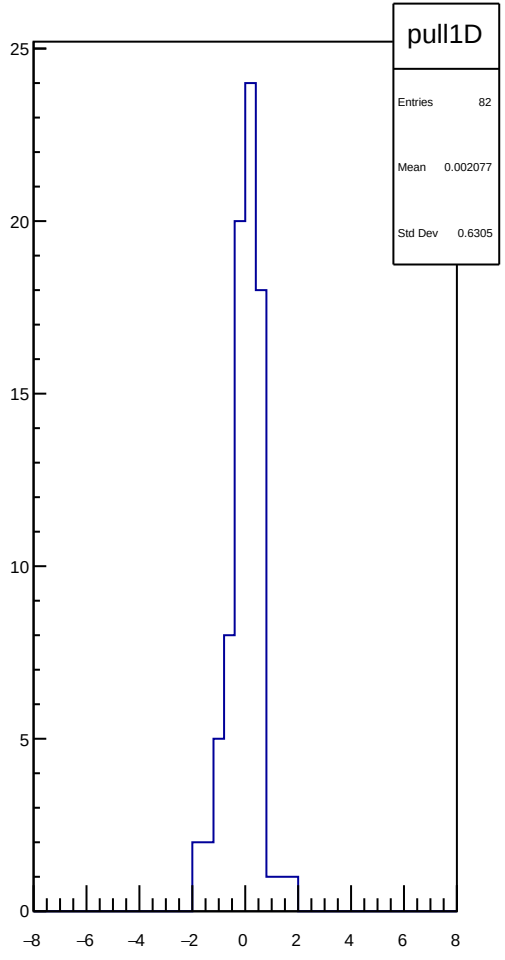

asym_bcm_an_ds3_rms vs run
χ² / ndf 4685 / 81
p0 184.2 ± 0.1448
210
200
190
180
170
160

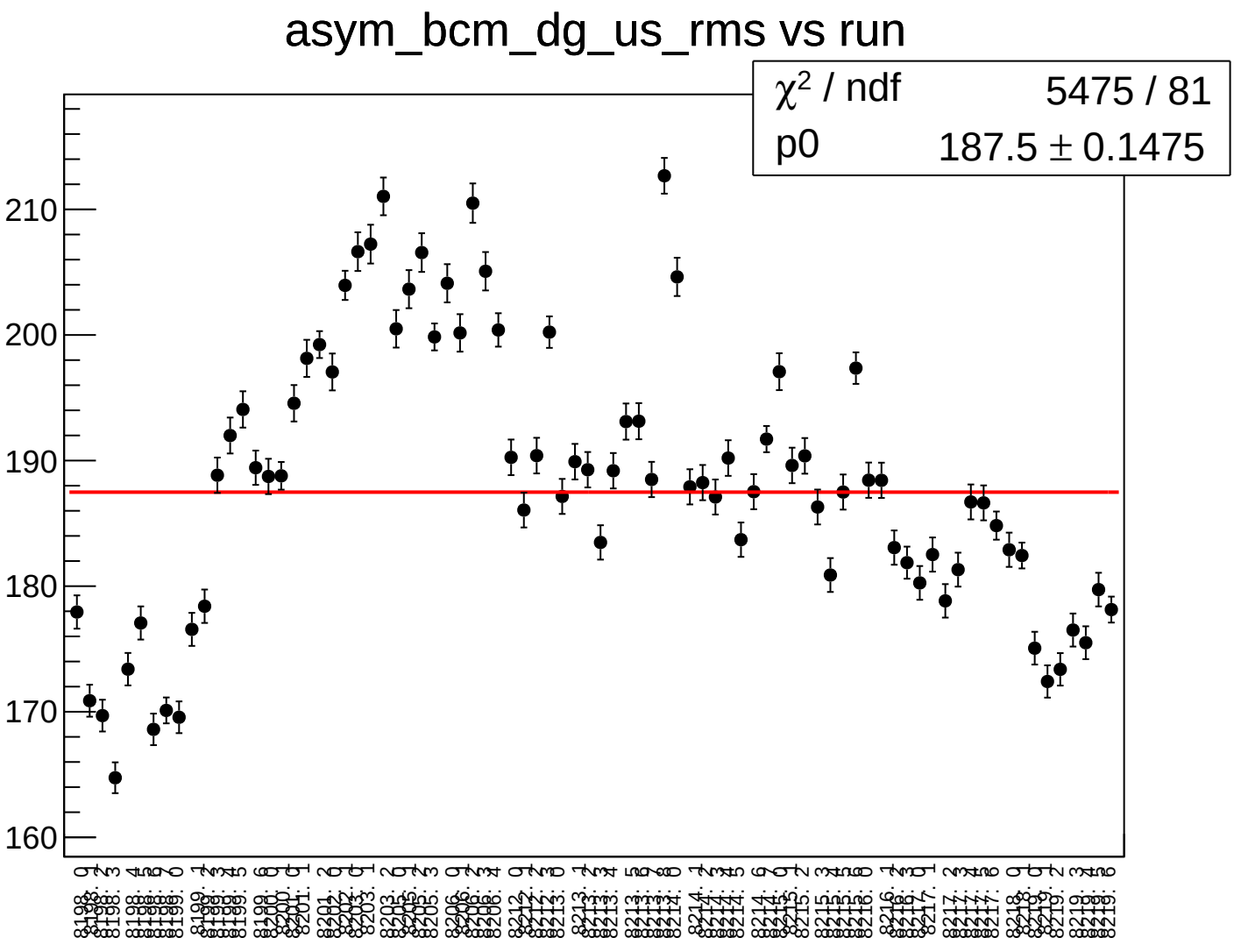

asym_bcm_an_us_mean vs run
χ² / ndf 26.39 / 81
p0 −219.4 ± 205
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −621.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

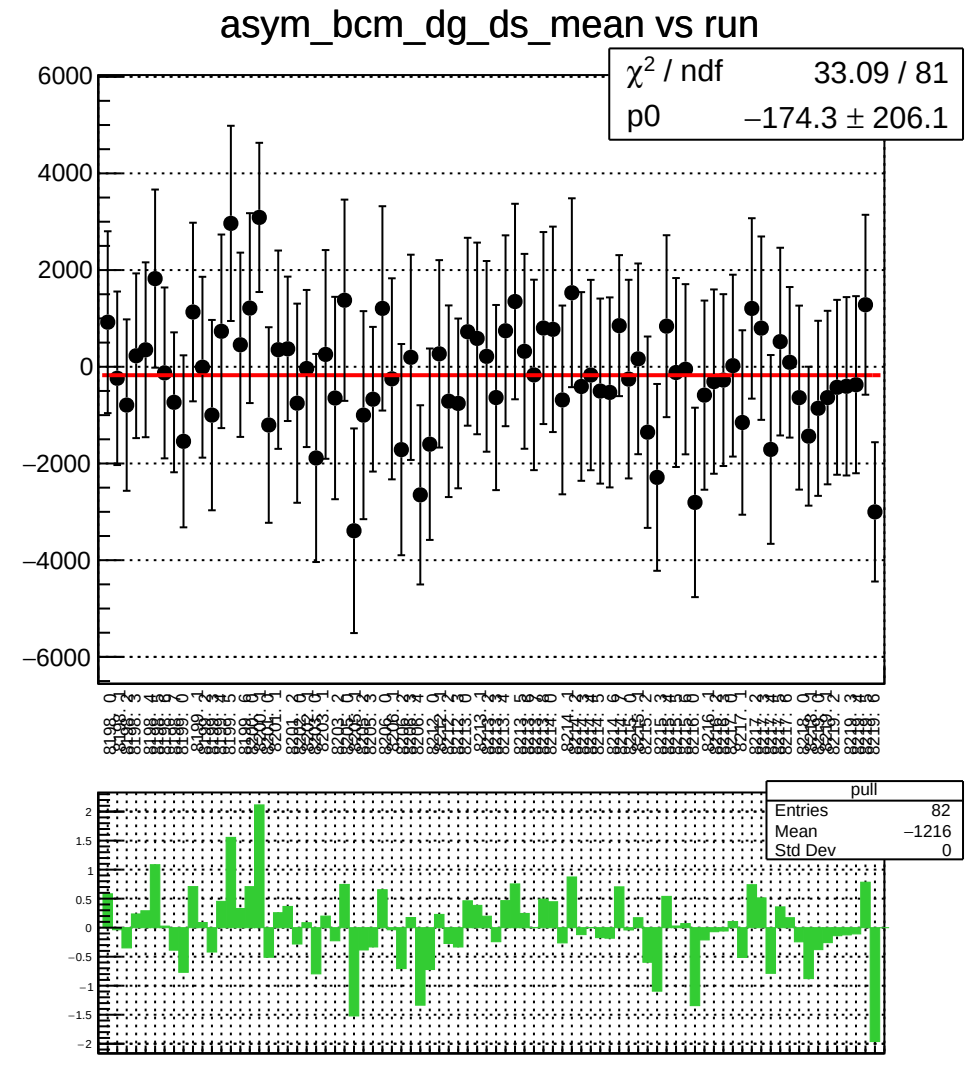

pull1D
Entries 82
Mean 0.004359
Std Dev 0.5673
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

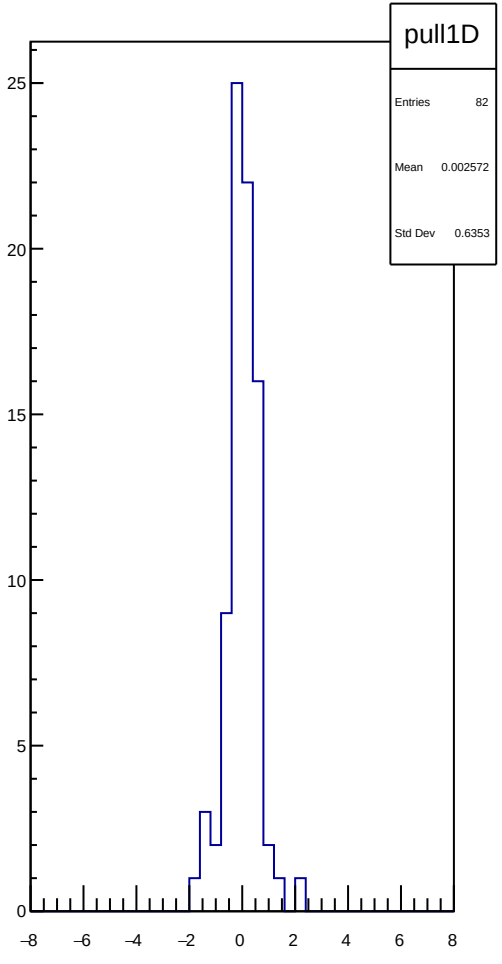

asym_bcm_an_us_rms vs run
χ² / ndf 4710 / 81
p0 184.3 ± 0.145
210
200
190
180
170
160

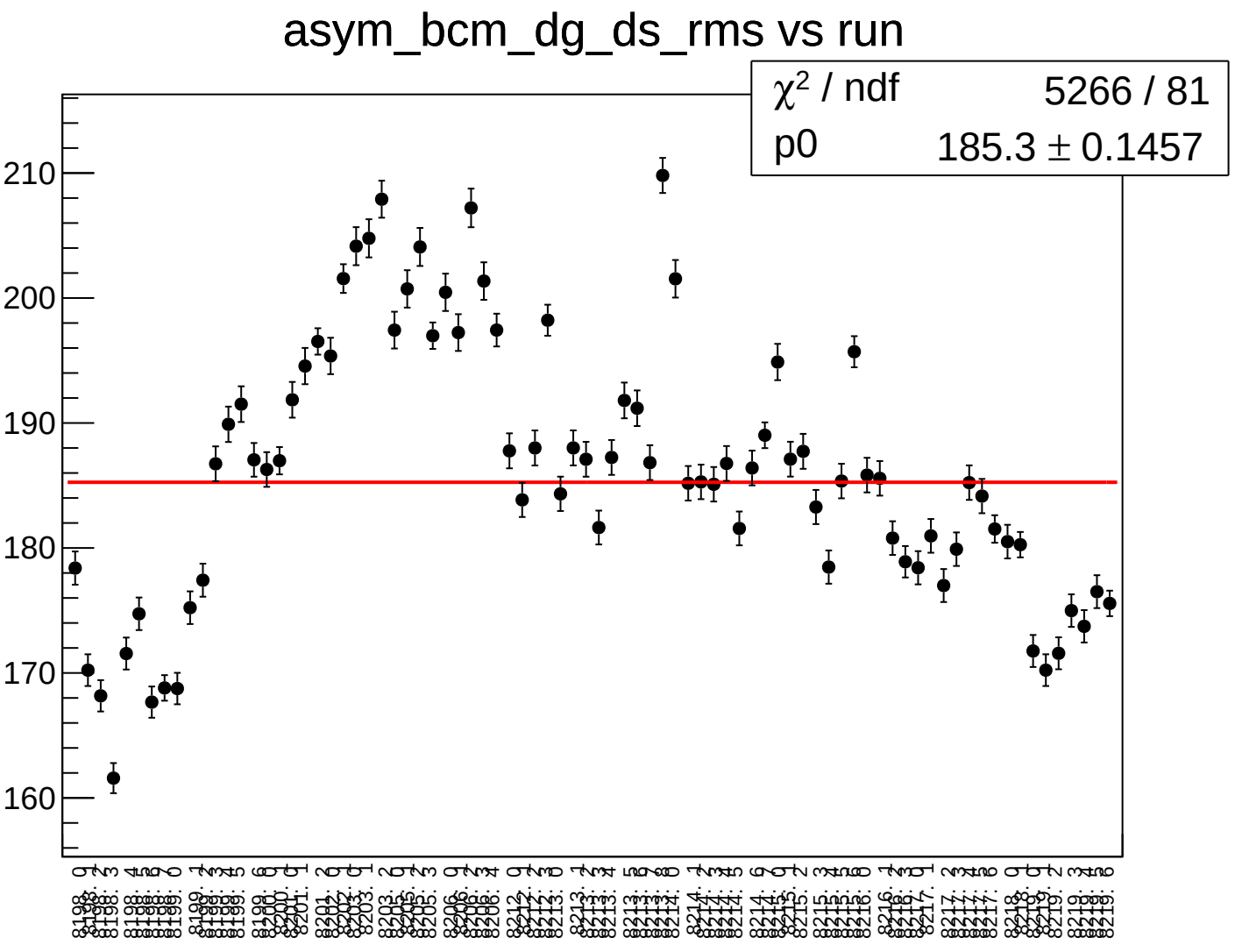

asym_bcm_dg_us_mean vs run
χ² / ndf 32.59 / 81
p0 −247.7 ± 208.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −1416
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

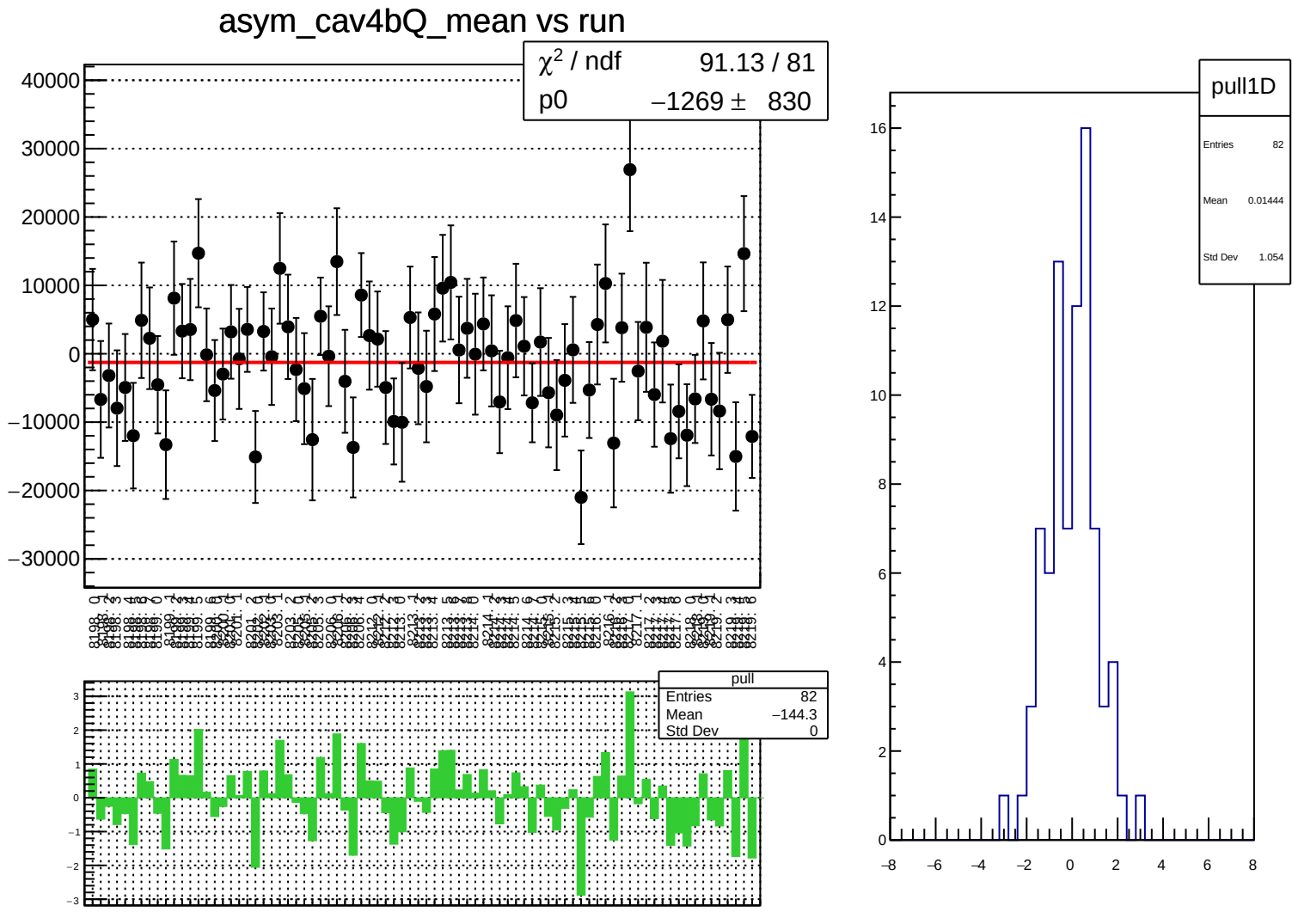

pull1D
Entries 82
Mean 0.002077
Std Dev 0.6305
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

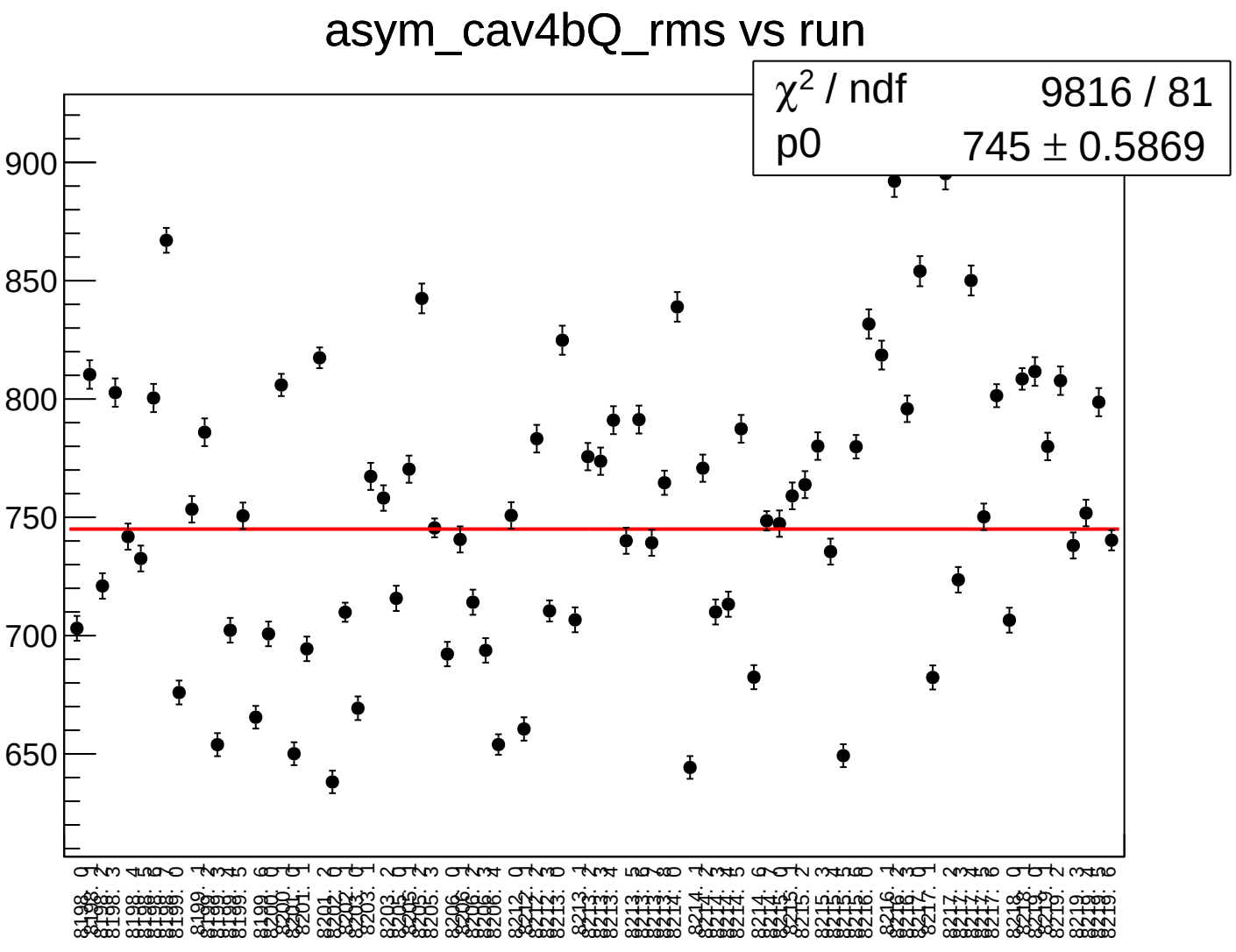

asym_bcm_dg_us_rms vs run
χ² / ndf 5475 / 81
p0 187.5 ± 0.1475
210
200
190
180
170
160

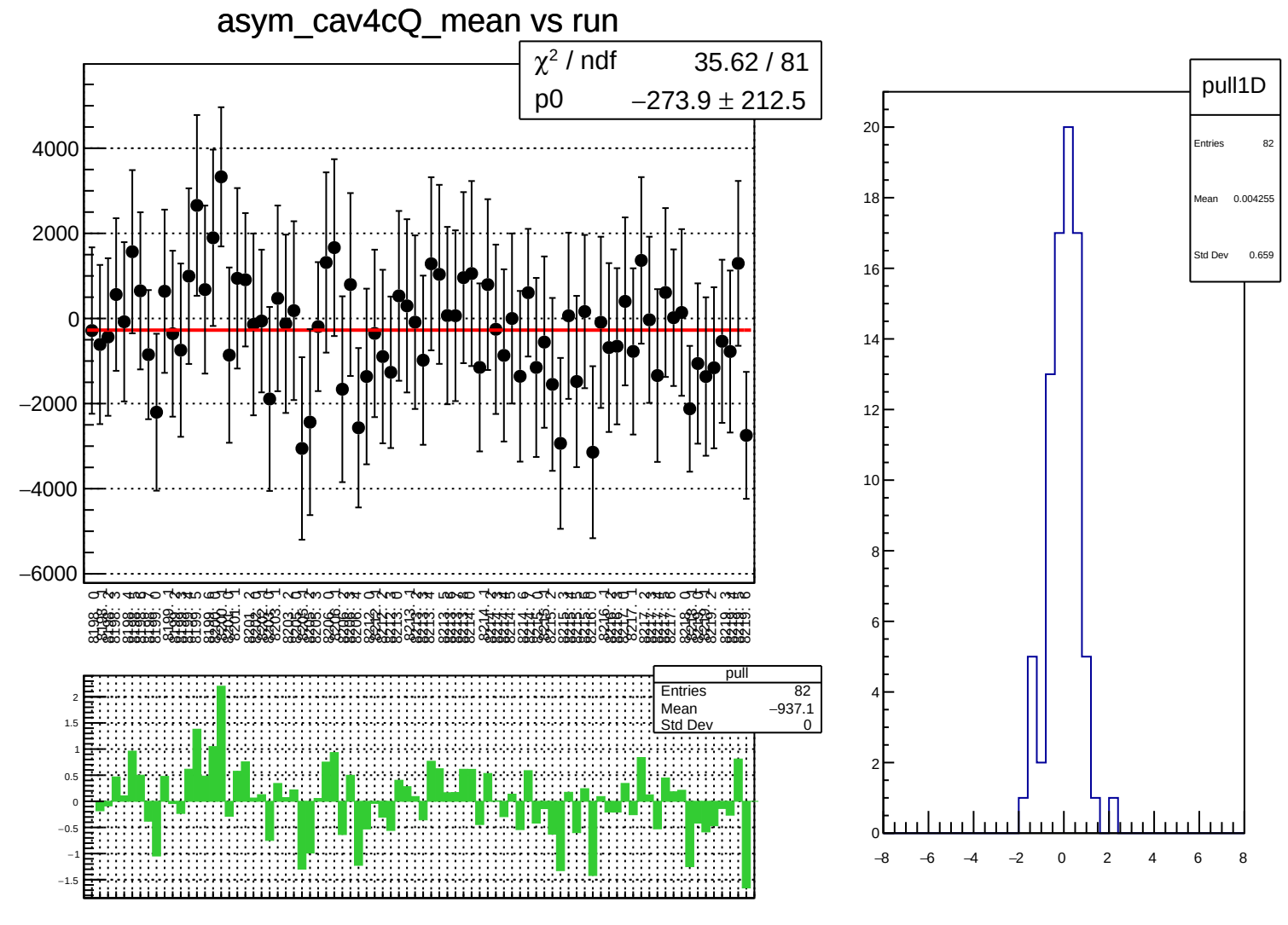

asym_bcm_dg_ds_mean vs run
χ² / ndf 33.09 / 81
p0 −174.3 ± 206.1
pull
Entries 82
Mean −1216
Std Dev 0

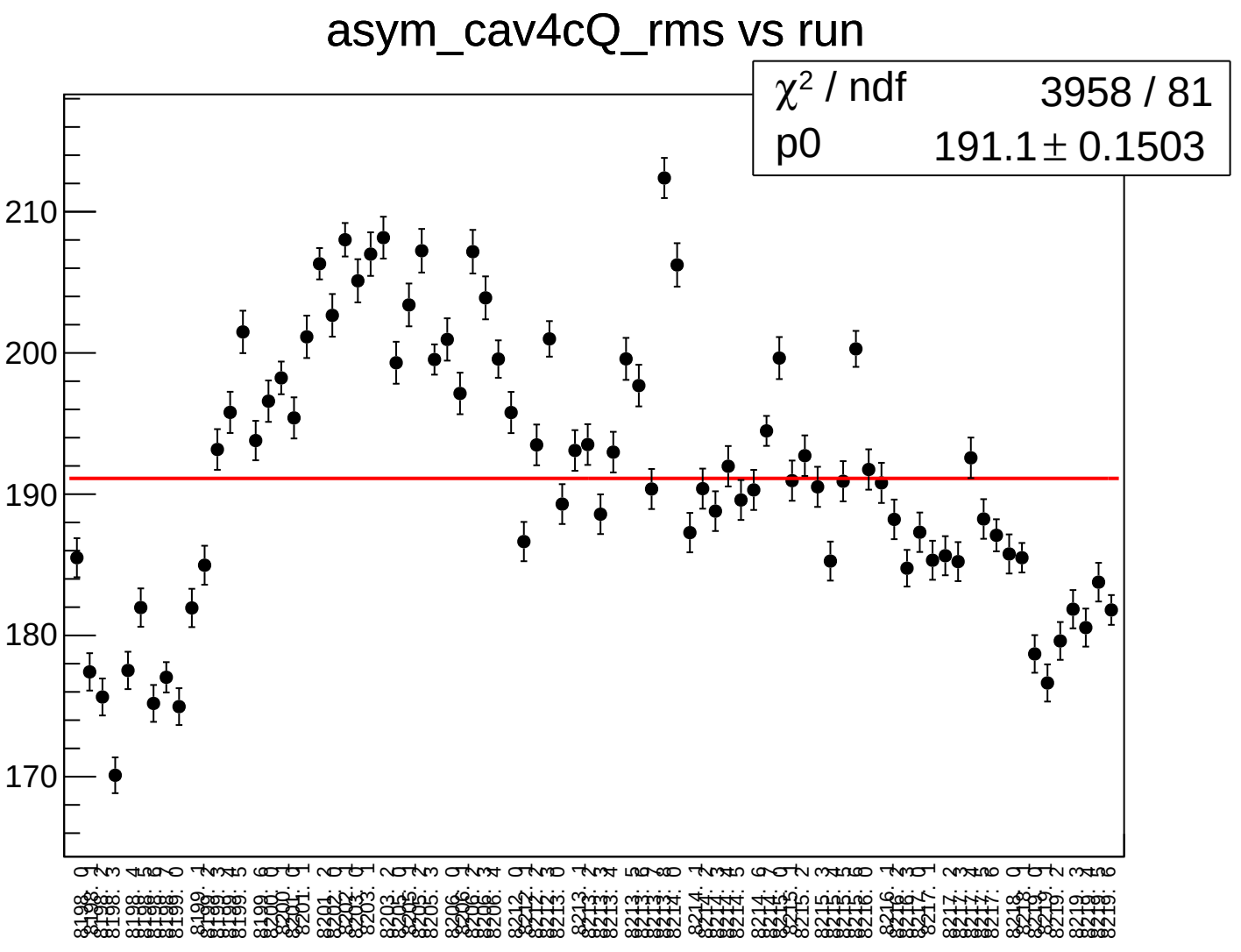

pull1D
Entries 82
Mean 0.002572
Std Dev 0.6353

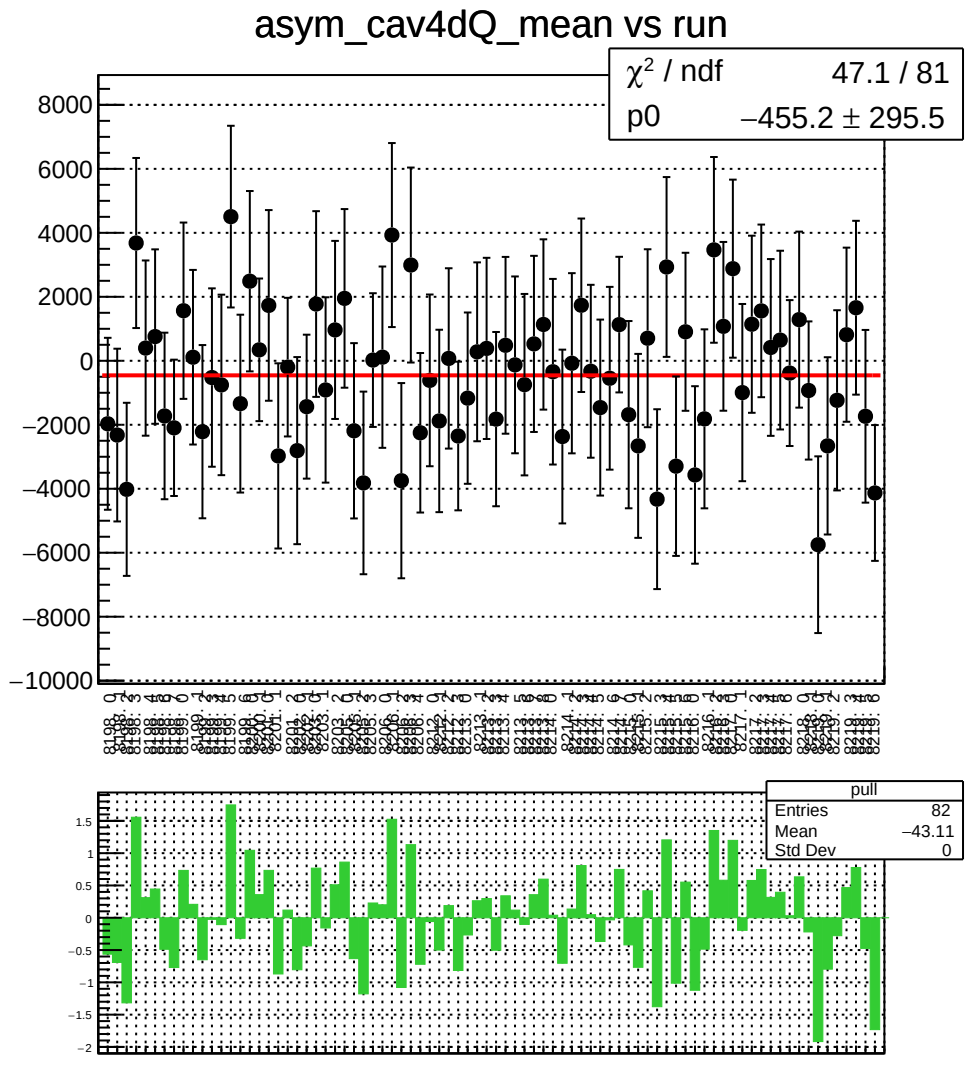

asym_bcm_dg_ds_rms vs run
χ² / ndf 5266 / 81
p0 185.3 ± 0.1457
210
200
190
180
170
160

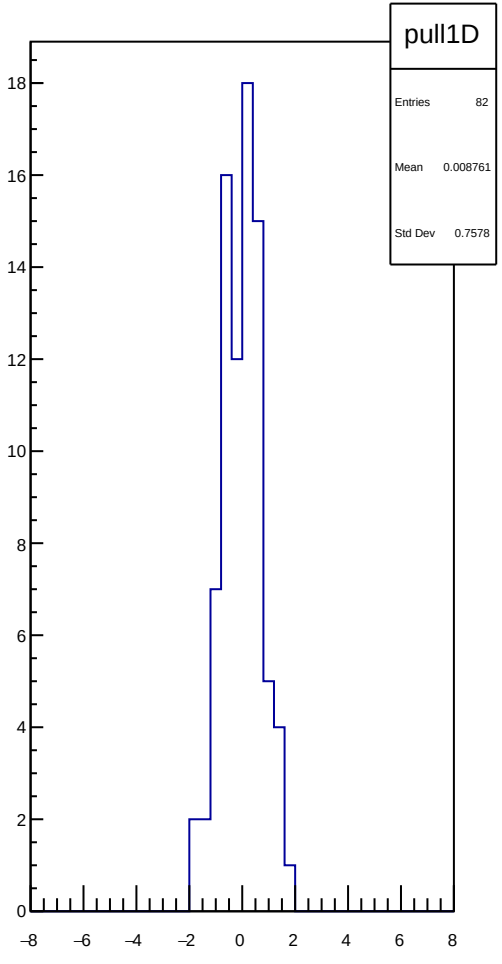

asym_cav4bQ_mean vs run
χ² / ndf 91.13 / 81
p0 −1269 ± 830
pull
Entries 82
Mean −144.3
Std Dev 0
pull1D
Entries 82
Mean 0.01444
Std Dev 1.054

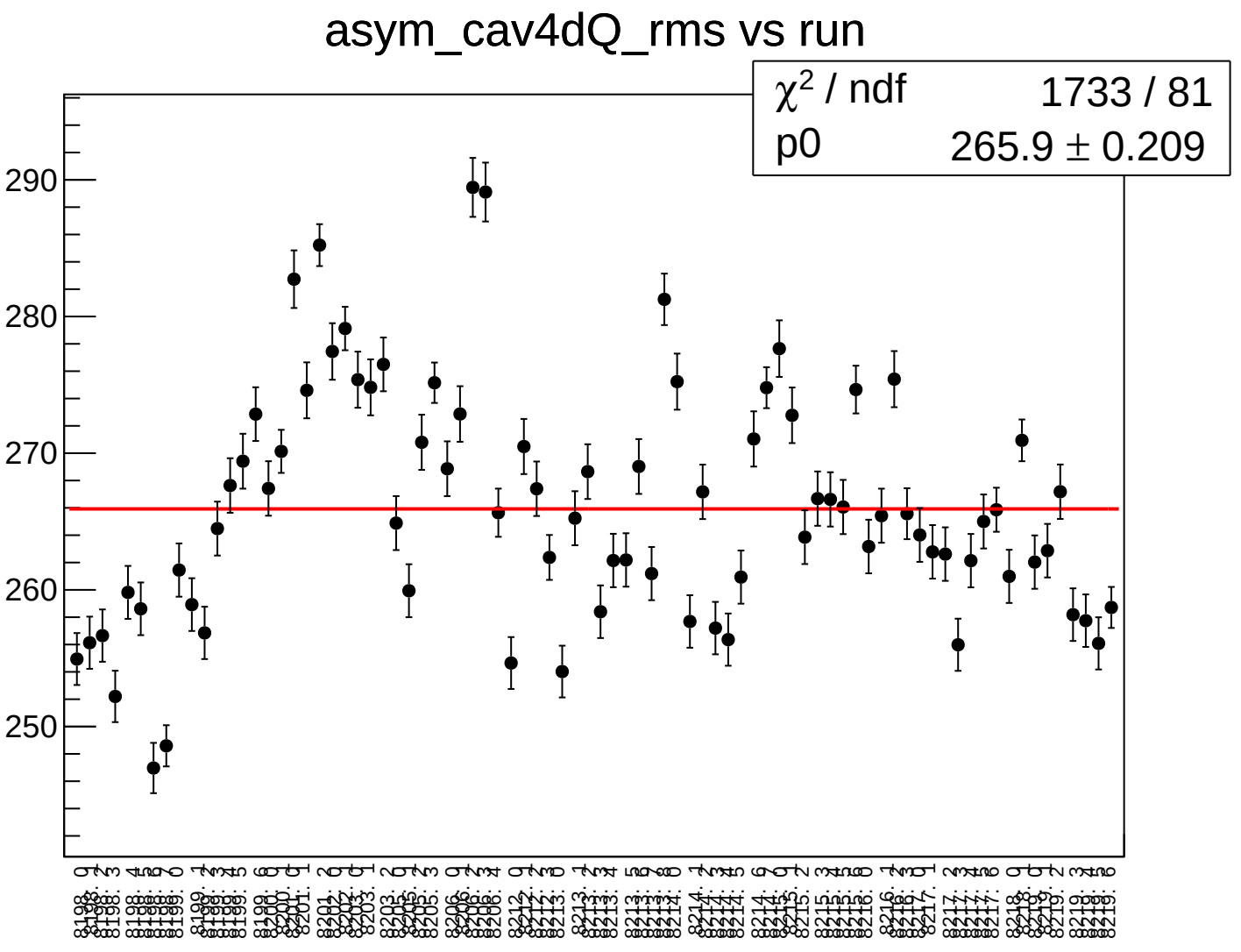

asym_cav4bQ_rms vs run
$\chi^2$ / ndf 9816 / 81
p0 745 ± 0.5869
900
850
800
750
700
650

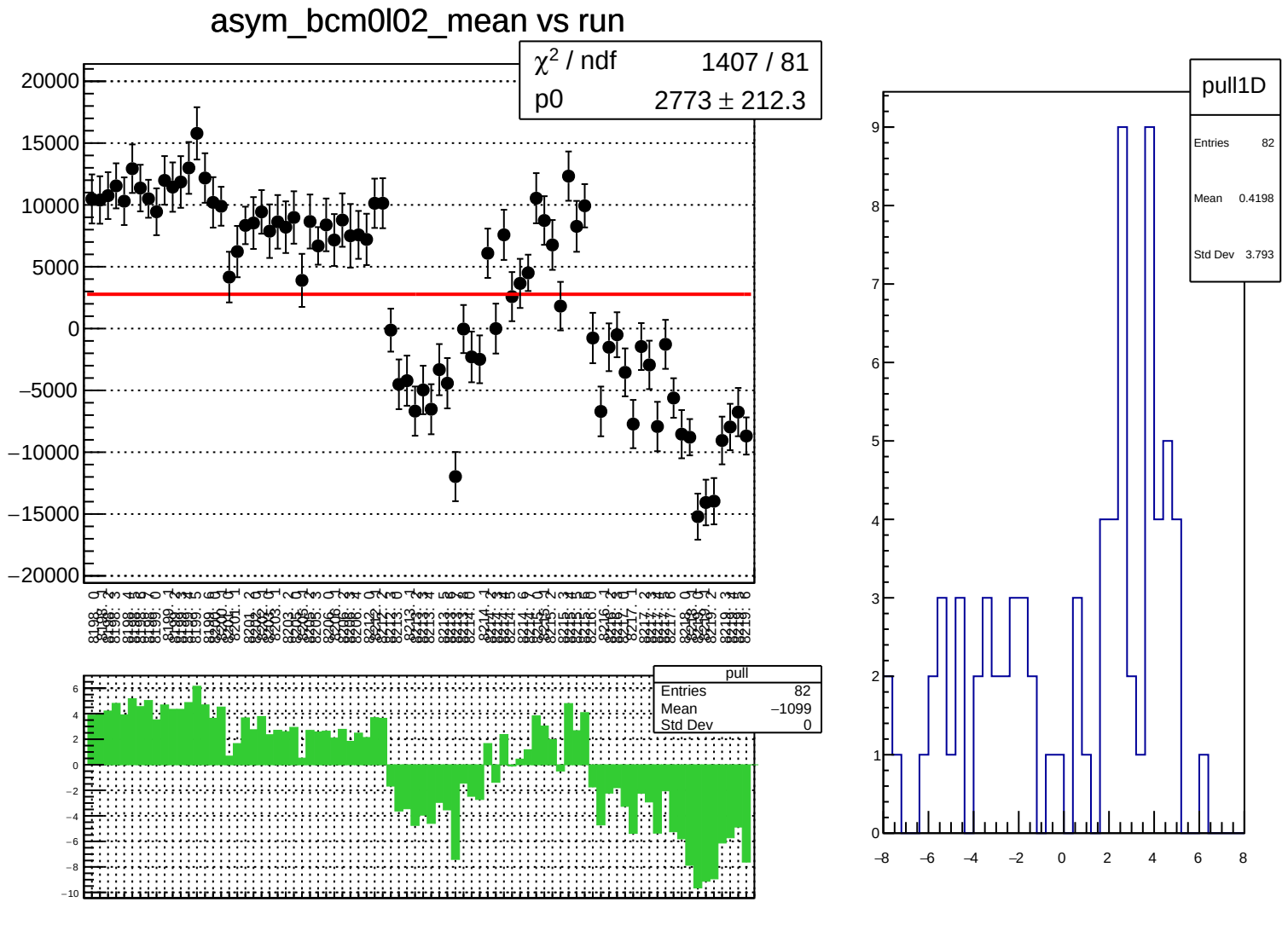

asym_cav4cQ_mean vs run
χ² / ndf 35.62 / 81
p0 −273.9 ± 212.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −937.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean 0.004255
Std Dev 0.659
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

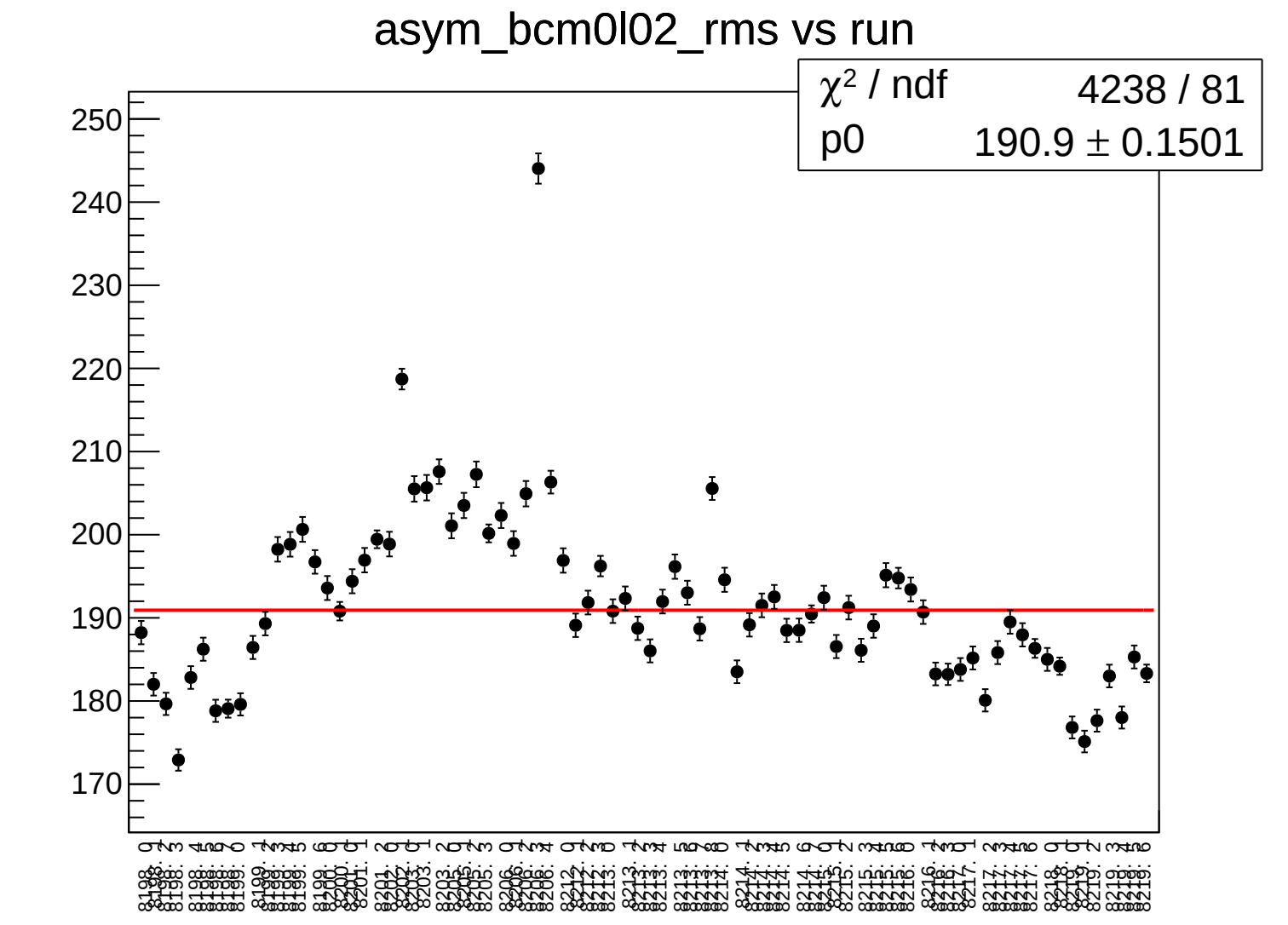

asym_cav4cQ_rms vs run
χ² / ndf 3958 / 81
p0 191.1 ± 0.1503
210
200
190
180
170

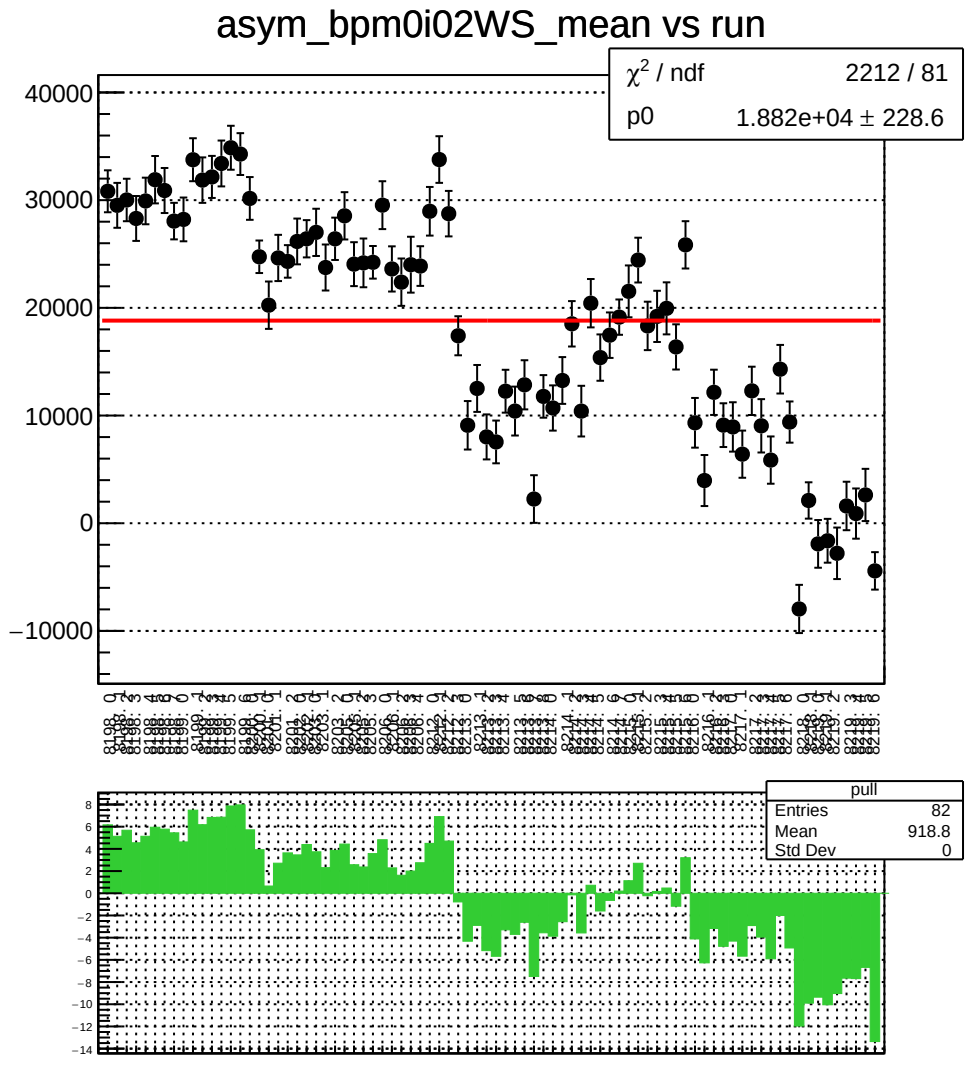

asym_cav4dQ_mean vs run
χ² / ndf 47.1 / 81
p0 −455.2 ± 295.5
pull
Entries 82
Mean −43.11
Std Dev 0

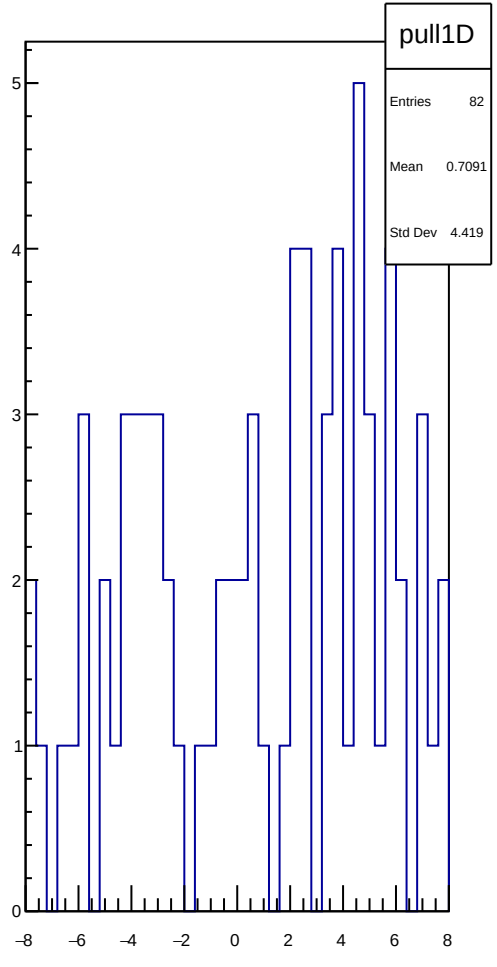

pull1D
Entries 82
Mean 0.008761
Std Dev 0.7578

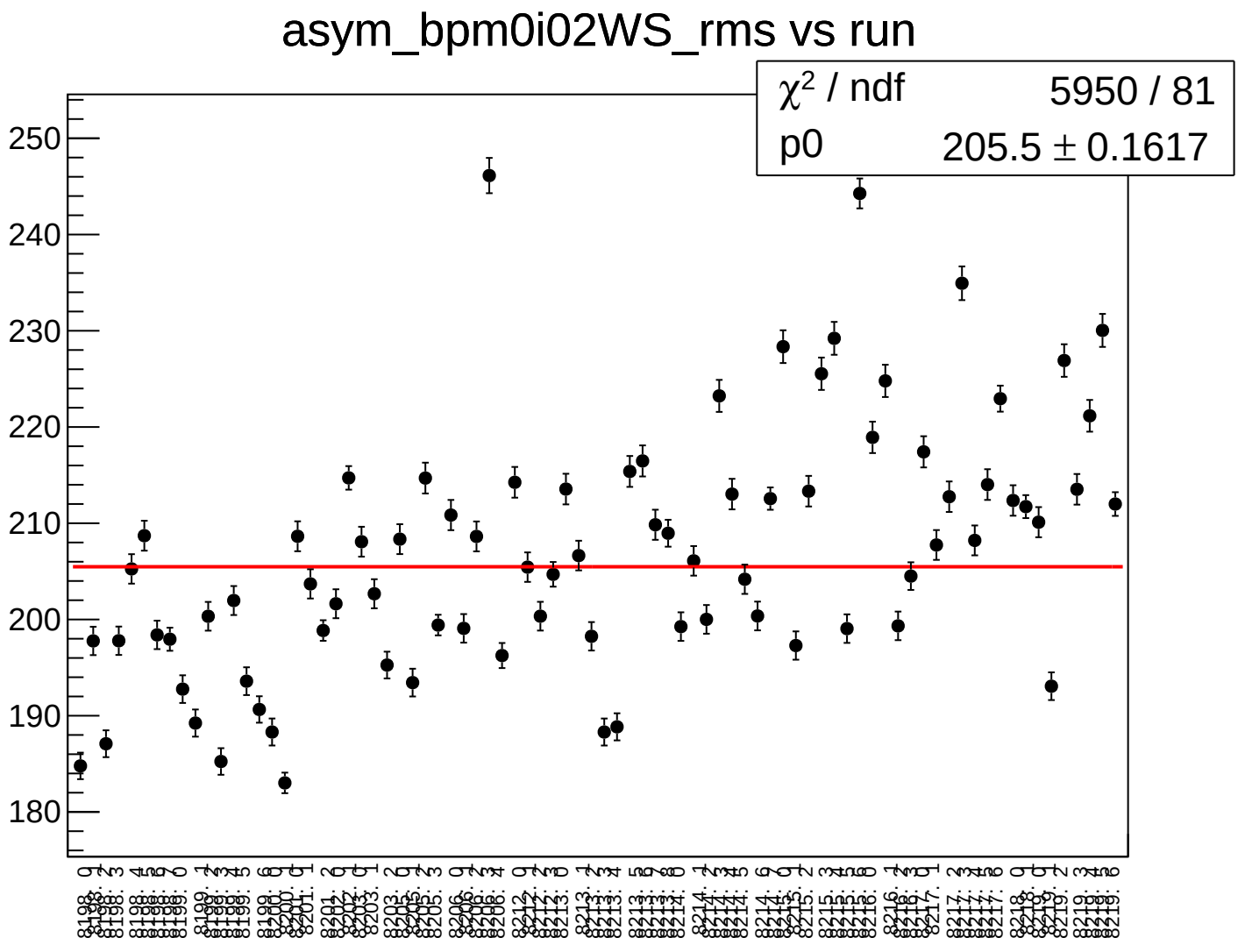

asym_cav4dQ_rms vs run
χ² / ndf 1733 / 81
p0 265.9 ± 0.209
290
280
270
260
250

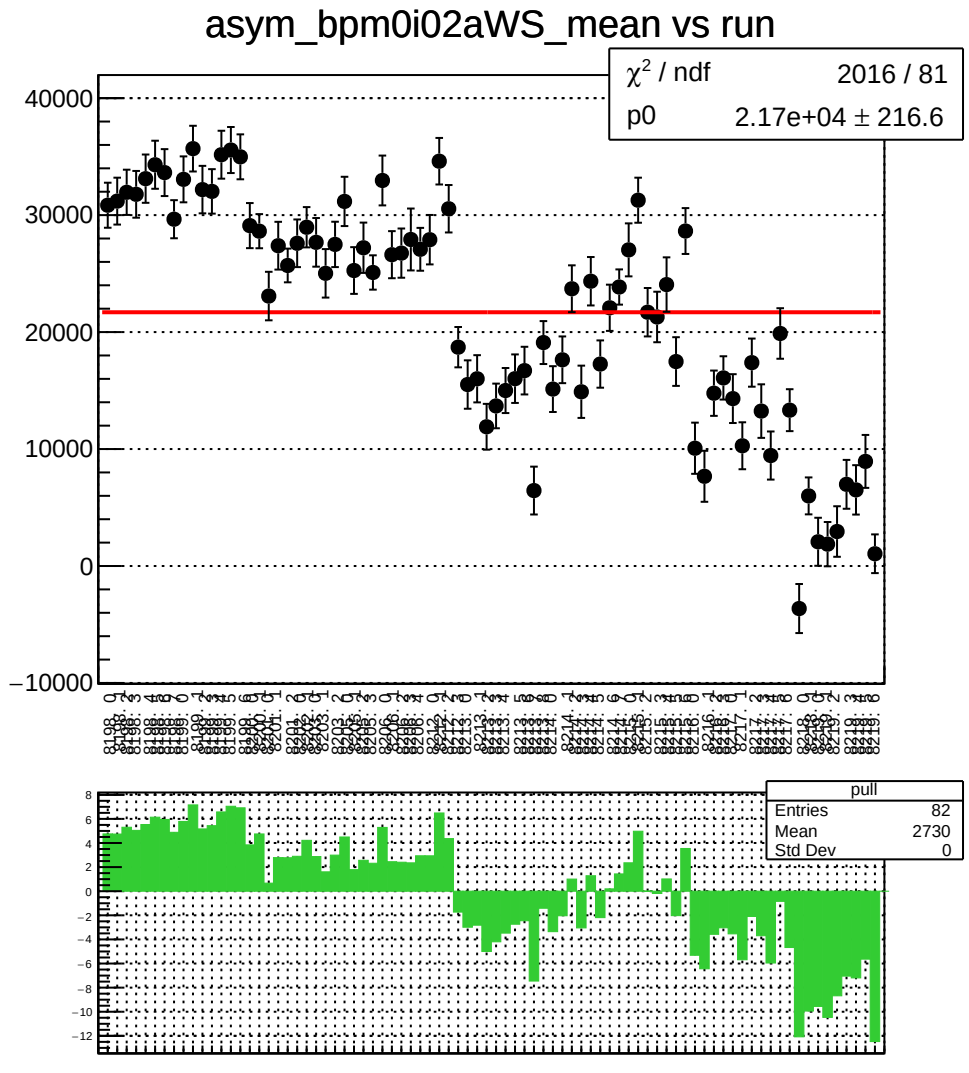

asym_bcm0l02_mean vs run
χ² / ndf 1407 / 81
p0 2773 ± 212.3
pull
Entries 82
Mean −1099
Std Dev 0
pull1D
Entries 82
Mean 0.4198
Std Dev 3.793

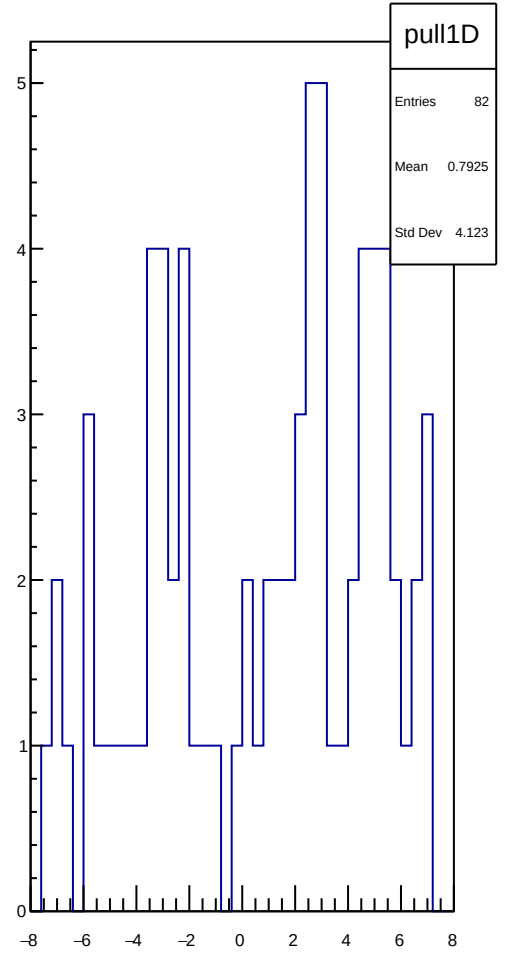

asym_bcm0l02_rms vs run
χ² / ndf 4238 / 81
p0 190.9 ± 0.1501
250
240
230
220
210
200
190
180
170

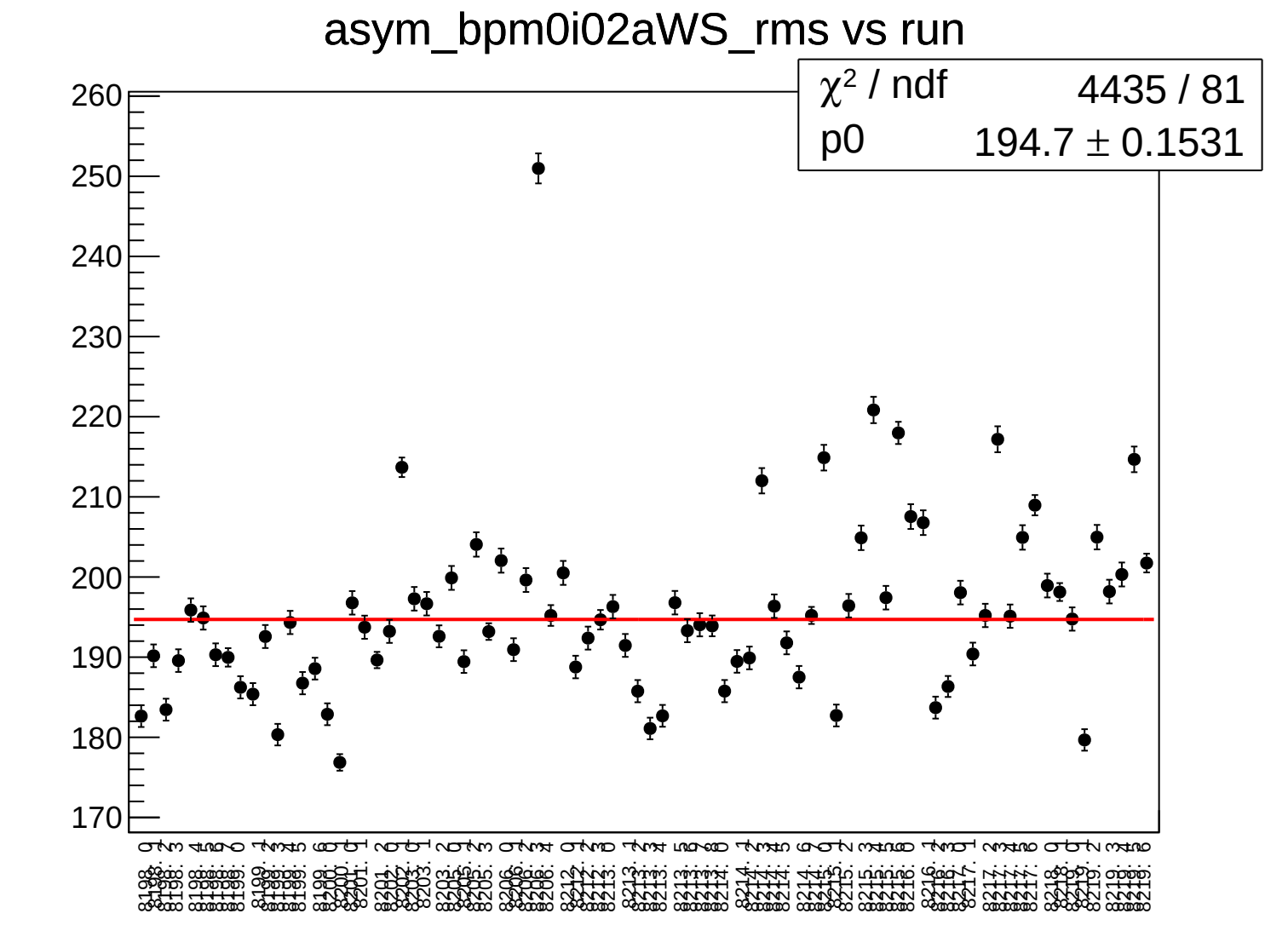

asym_bpm0i02WS_mean vs run
χ² / ndf 2212 / 81
p0 1.882e+04 ± 228.6
40000
30000
20000
10000
0
−10000
pull
Entries 82
Mean 918.8
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12
−14

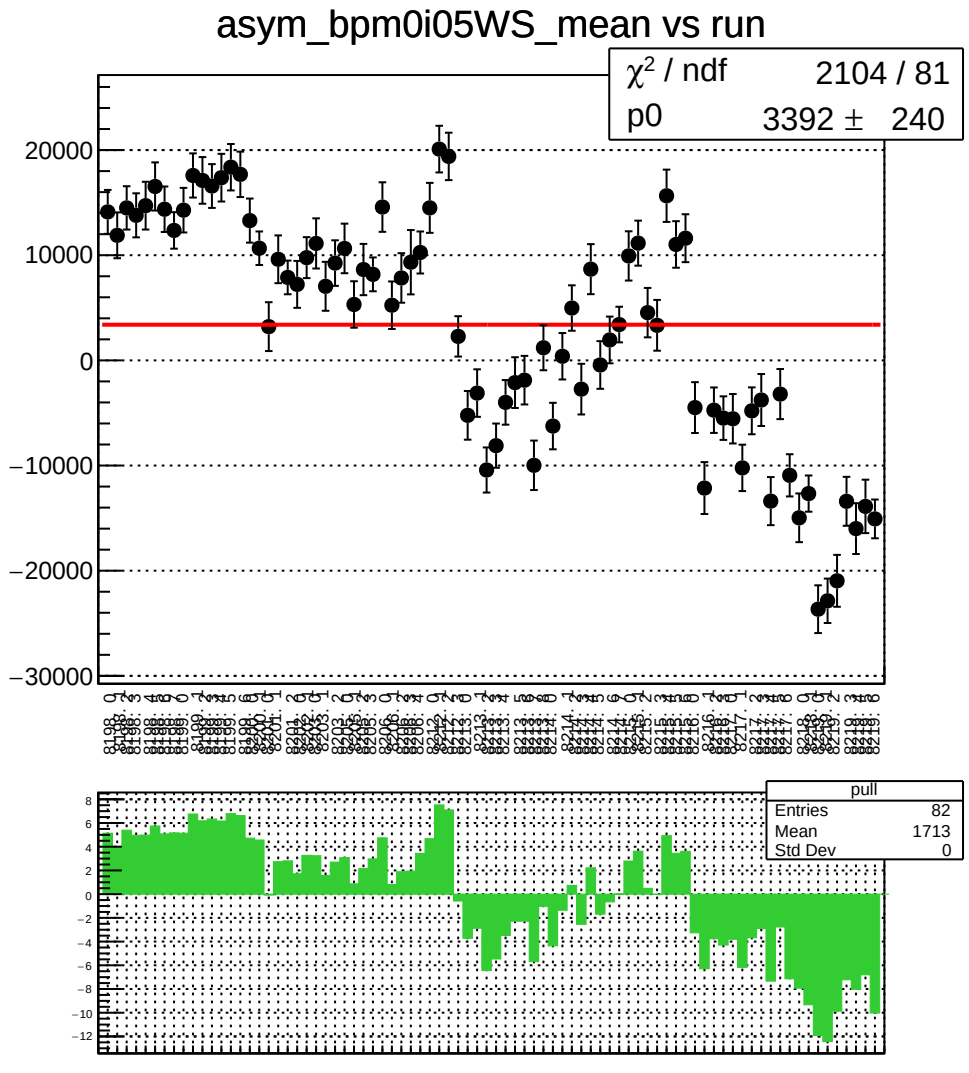

pull1D
Entries 82
Mean 0.7091
Std Dev 4.419
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

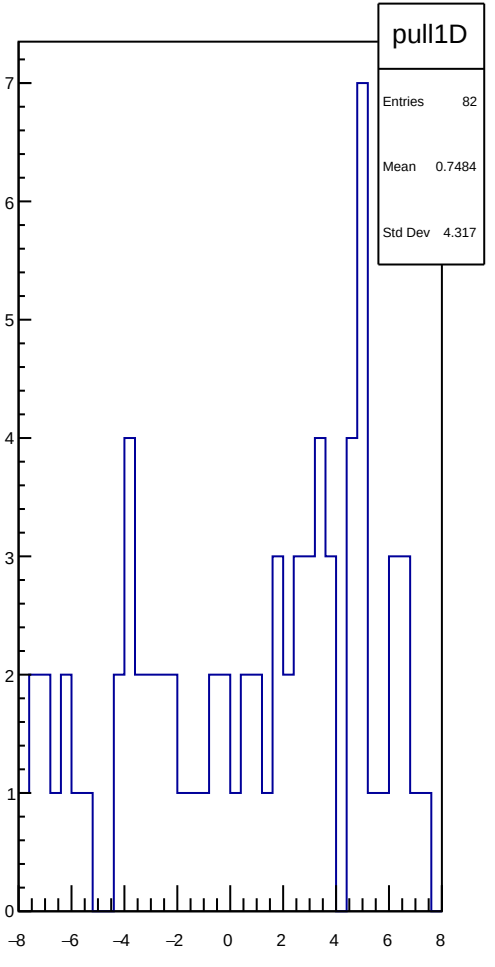

asym_bpm0i02WS_rms vs run
χ² / ndf 5950 / 81
p0 205.5 ± 0.1617
250
240
230
220
210
200
190
180

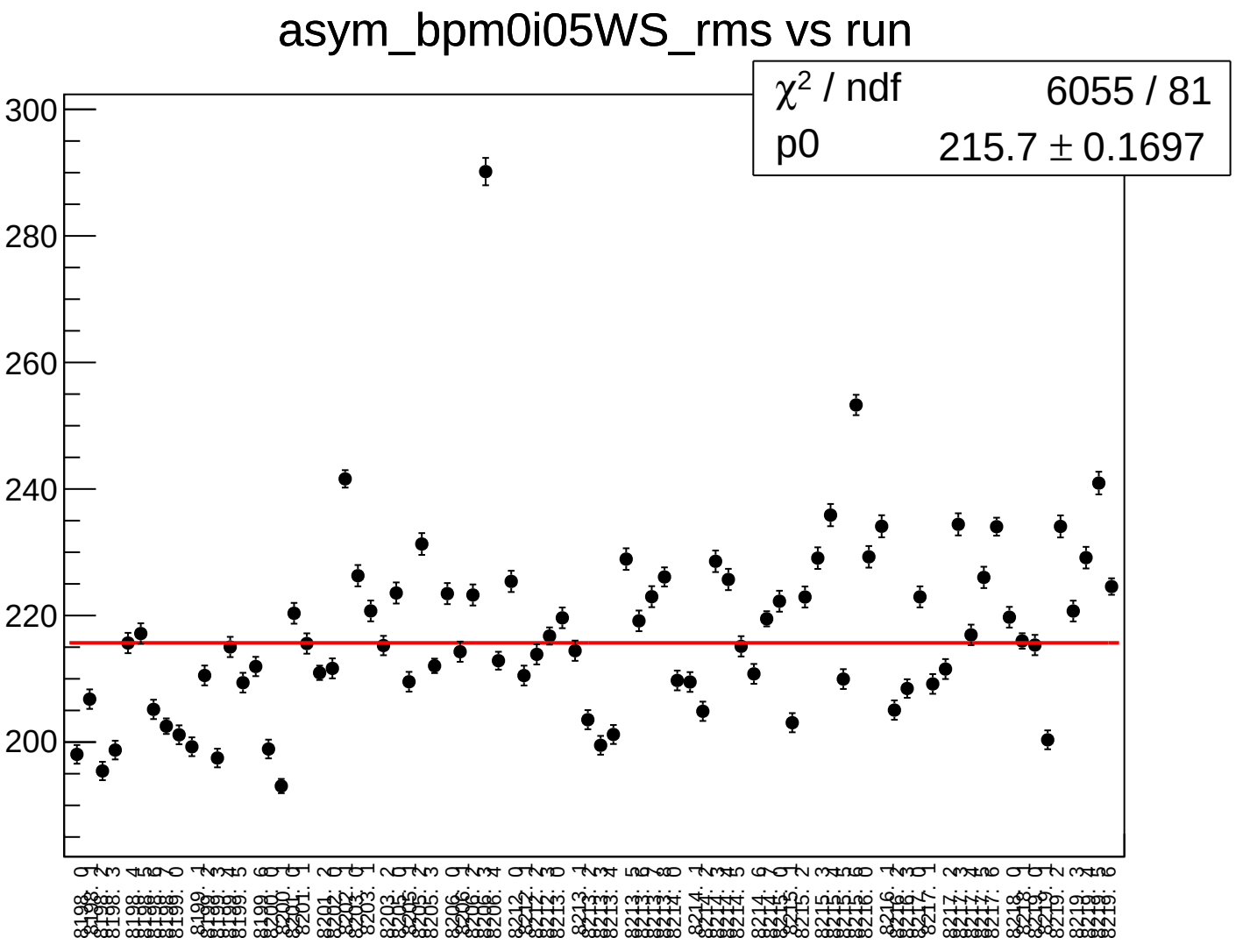

asym_bpm0i02aWS_mean vs run
χ² / ndf 2016 / 81
p0 2.17e+04 ± 216.6
pull
Entries 82
Mean 2730
Std Dev 0

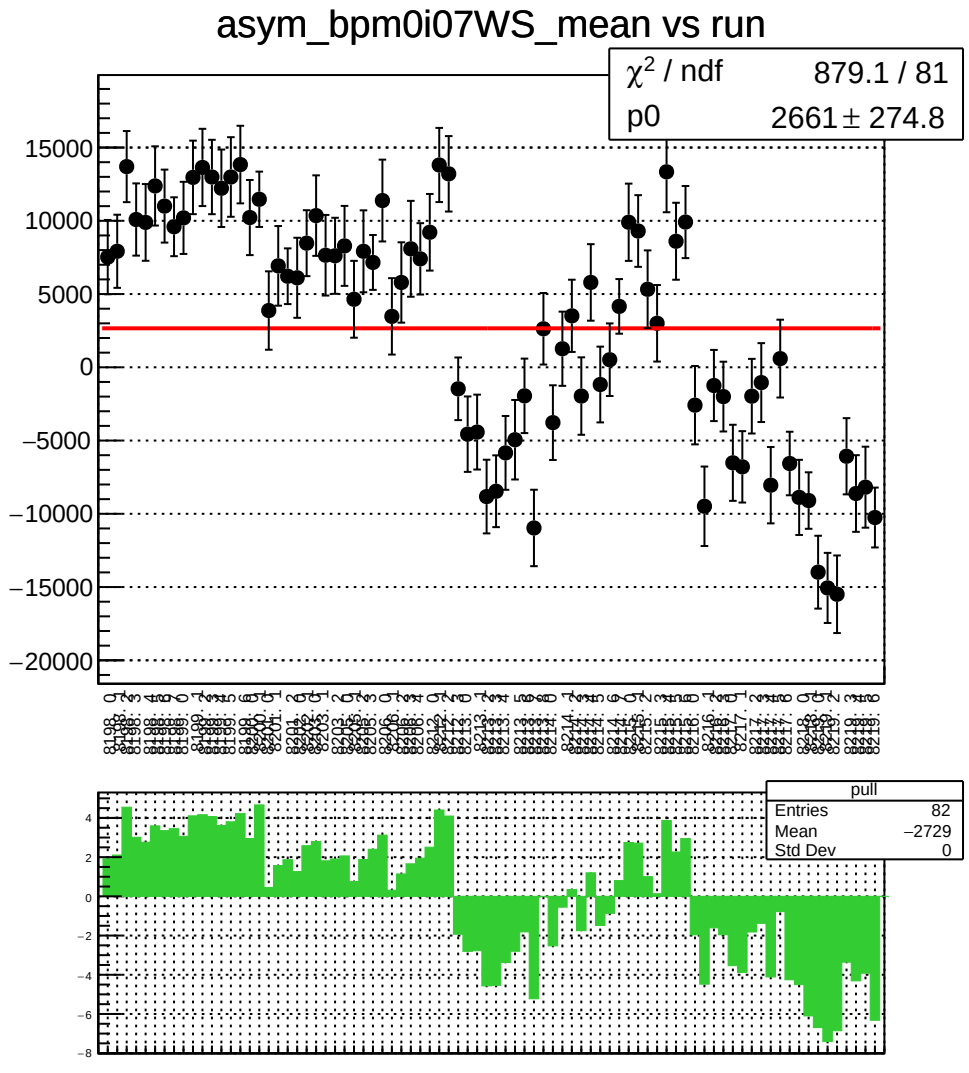

pull1D
Entries 82
Mean 0.7925
Std Dev 4.123

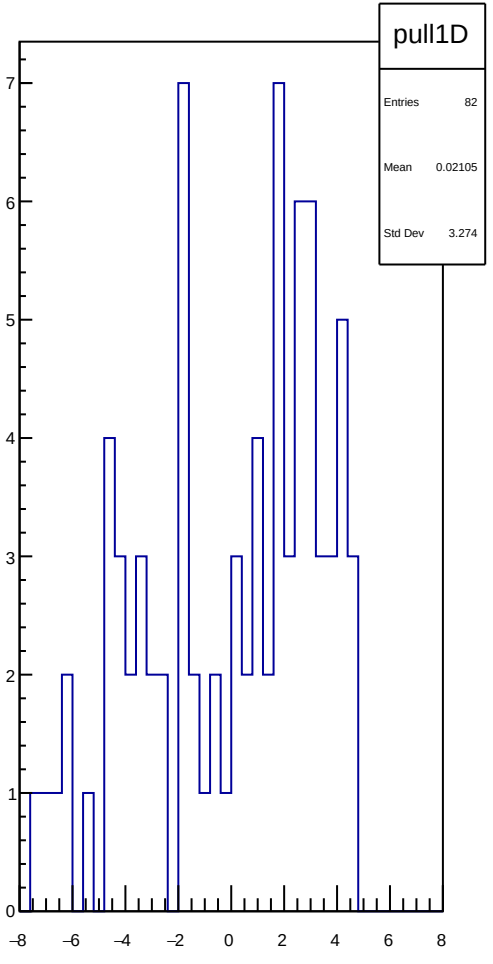

asym_bpm0i02aWS_rms vs run
χ² / ndf 4435 / 81
p0 194.7 ± 0.1531
260
250
240
230
220
210
200
190
180
170

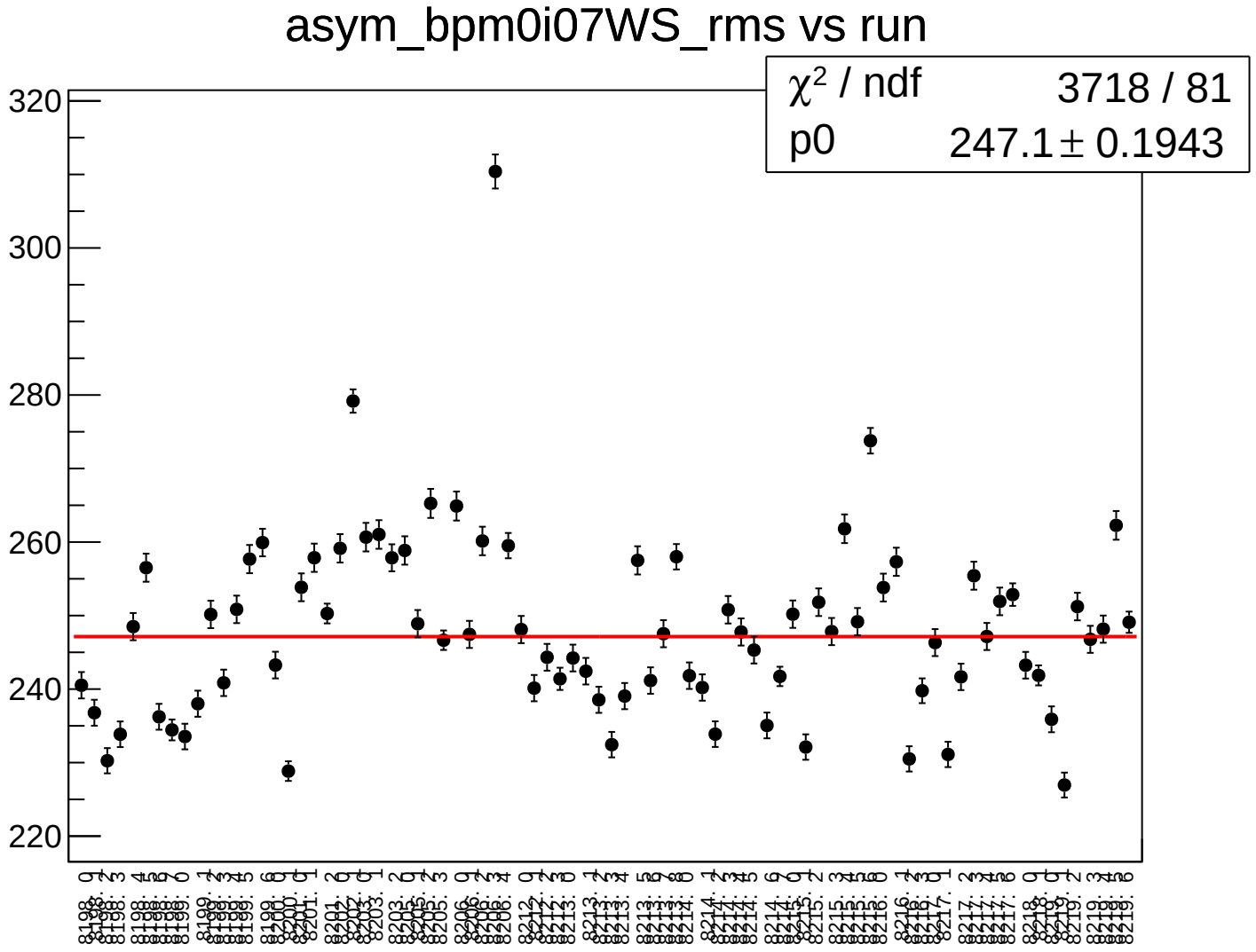

asym_bpm0i05WS_mean vs run
χ² / ndf 2104 / 81
p0 3392 ± 240
pull
Entries 82
Mean 1713
Std Dev 0

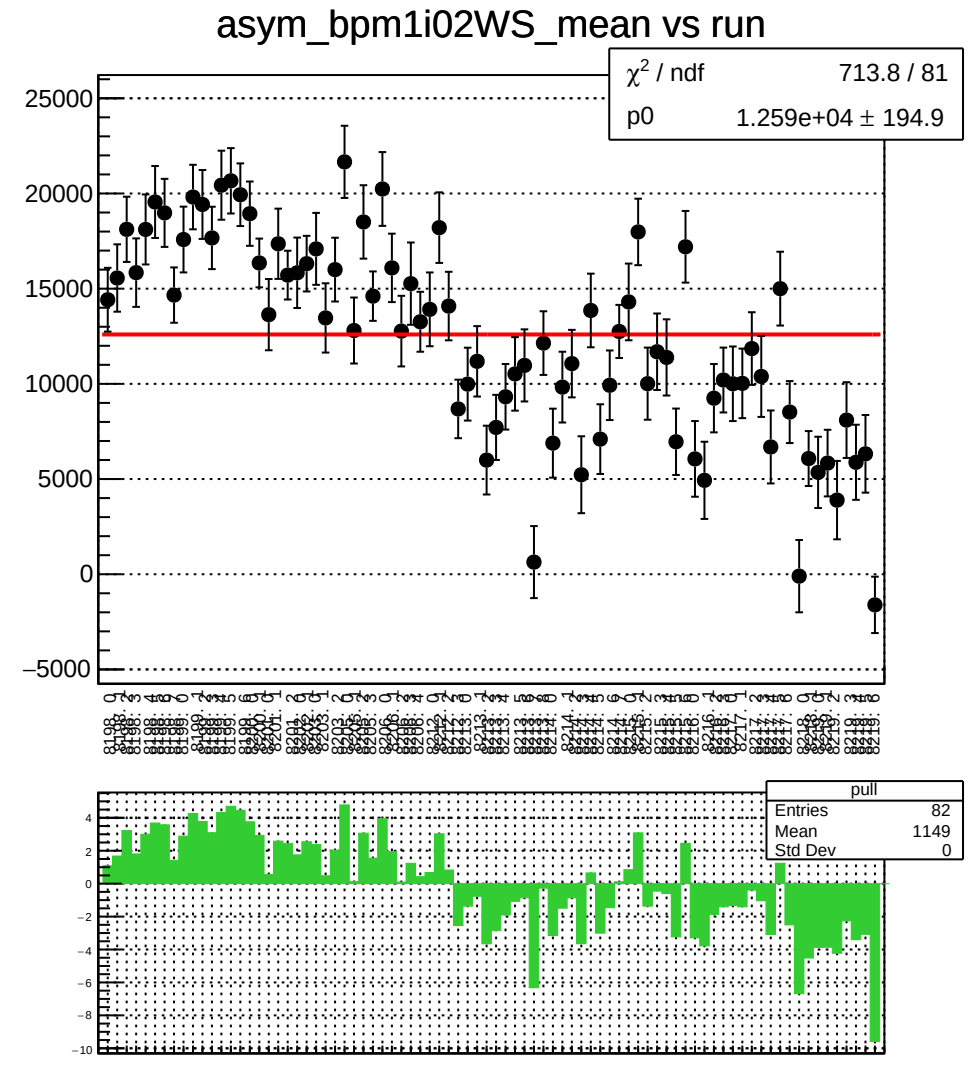

pull1D
Entries 82
Mean 0.7484
Std Dev 4.317

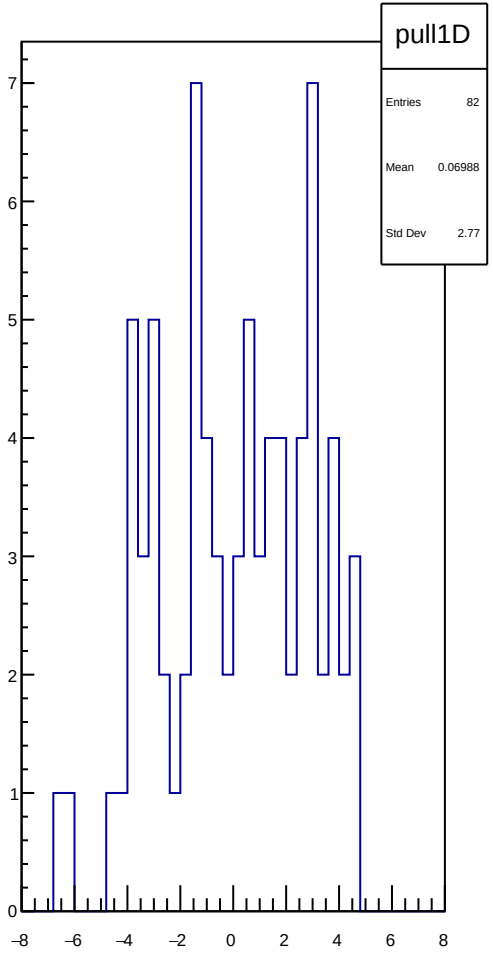

asym_bpm0i05WS_rms vs run
χ² / ndf 6055 / 81
p0 215.7 ± 0.1697
300
280
260
240
220
200

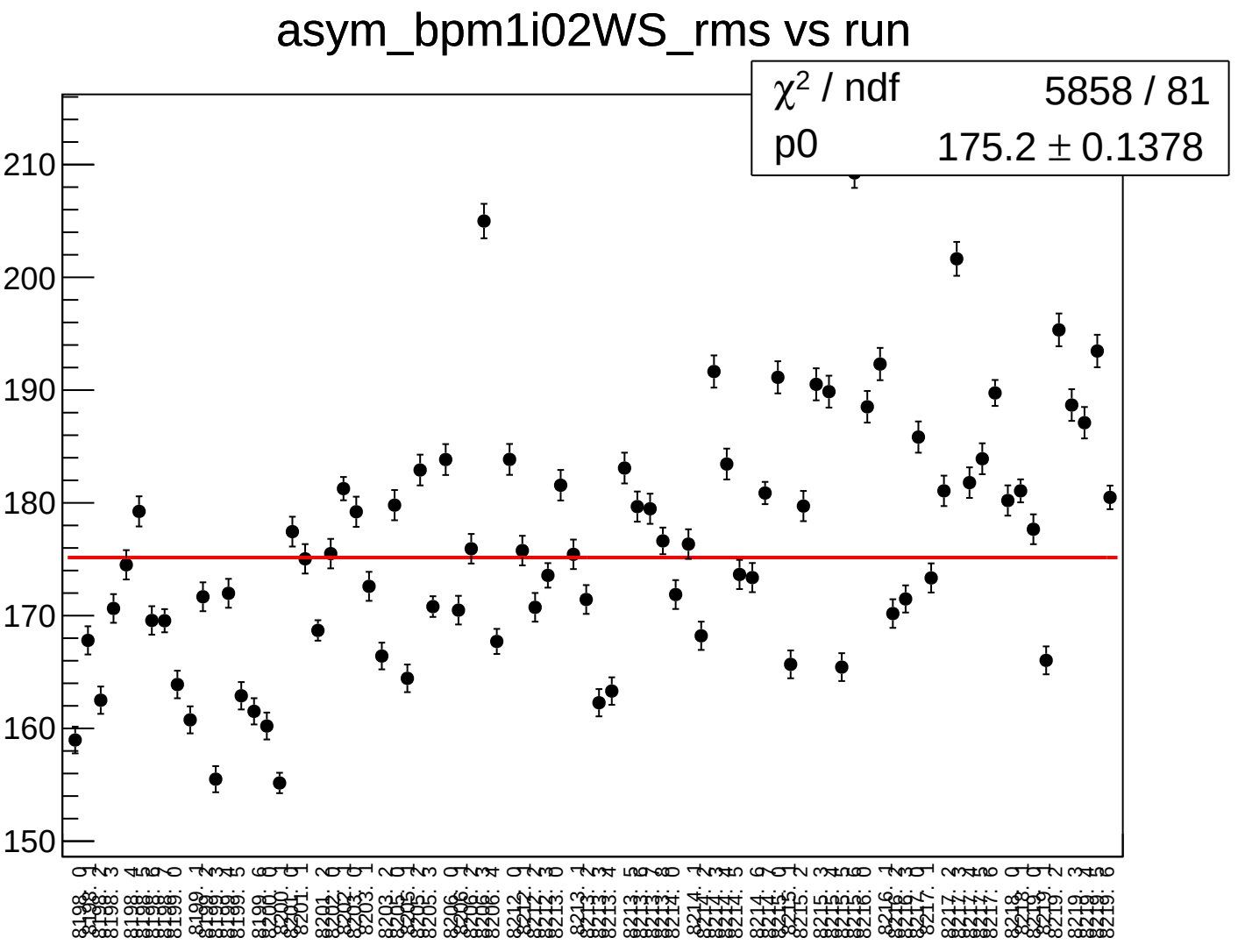

asym_bpm0i07WS_mean vs run
χ² / ndf 879.1 / 81
p0 2661 ± 274.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean −2729
Std Dev 0
4
2
0
−2
−4
−6
−8

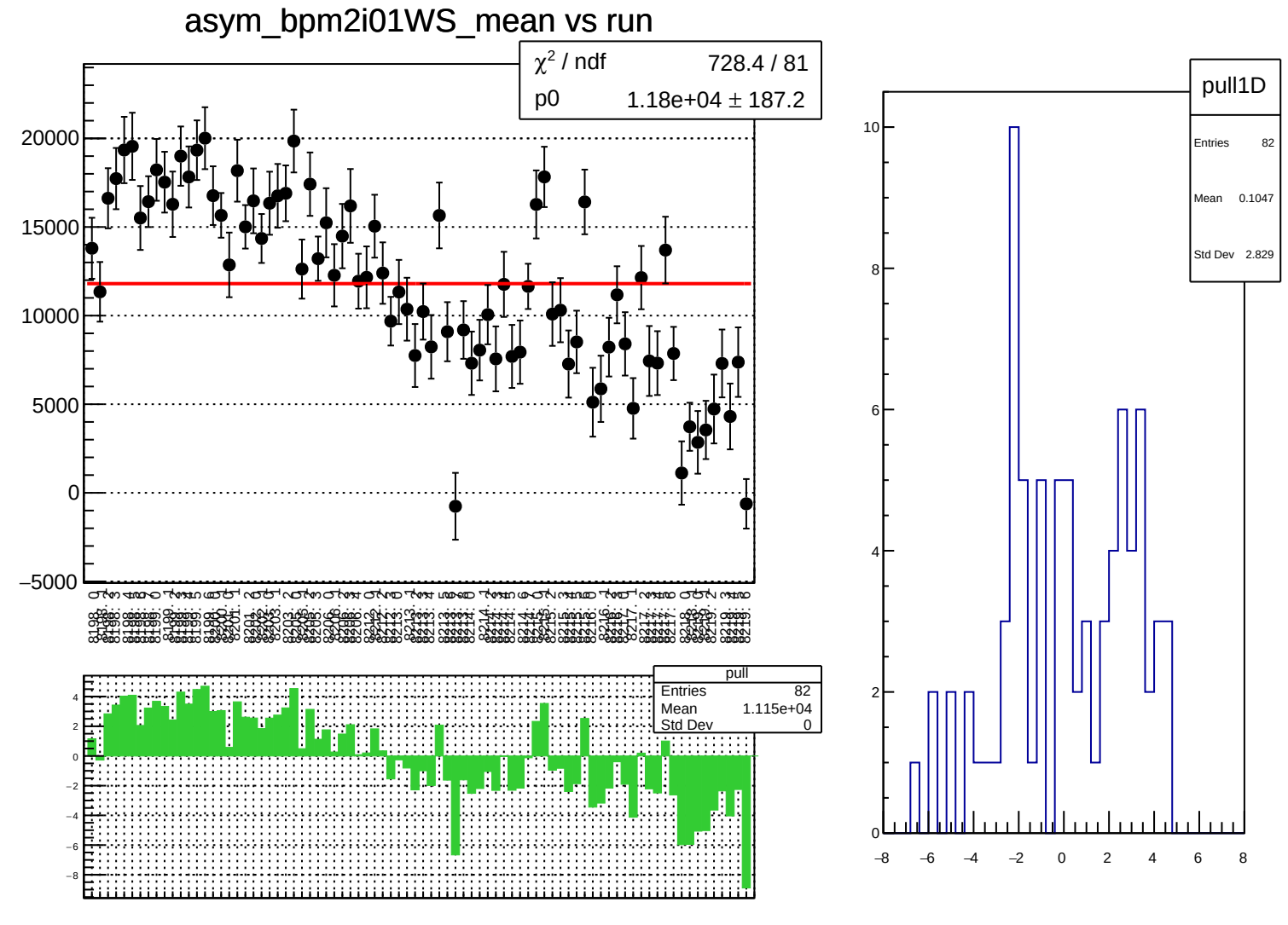

pull1D
Entries 82
Mean 0.02105
Std Dev 3.274
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

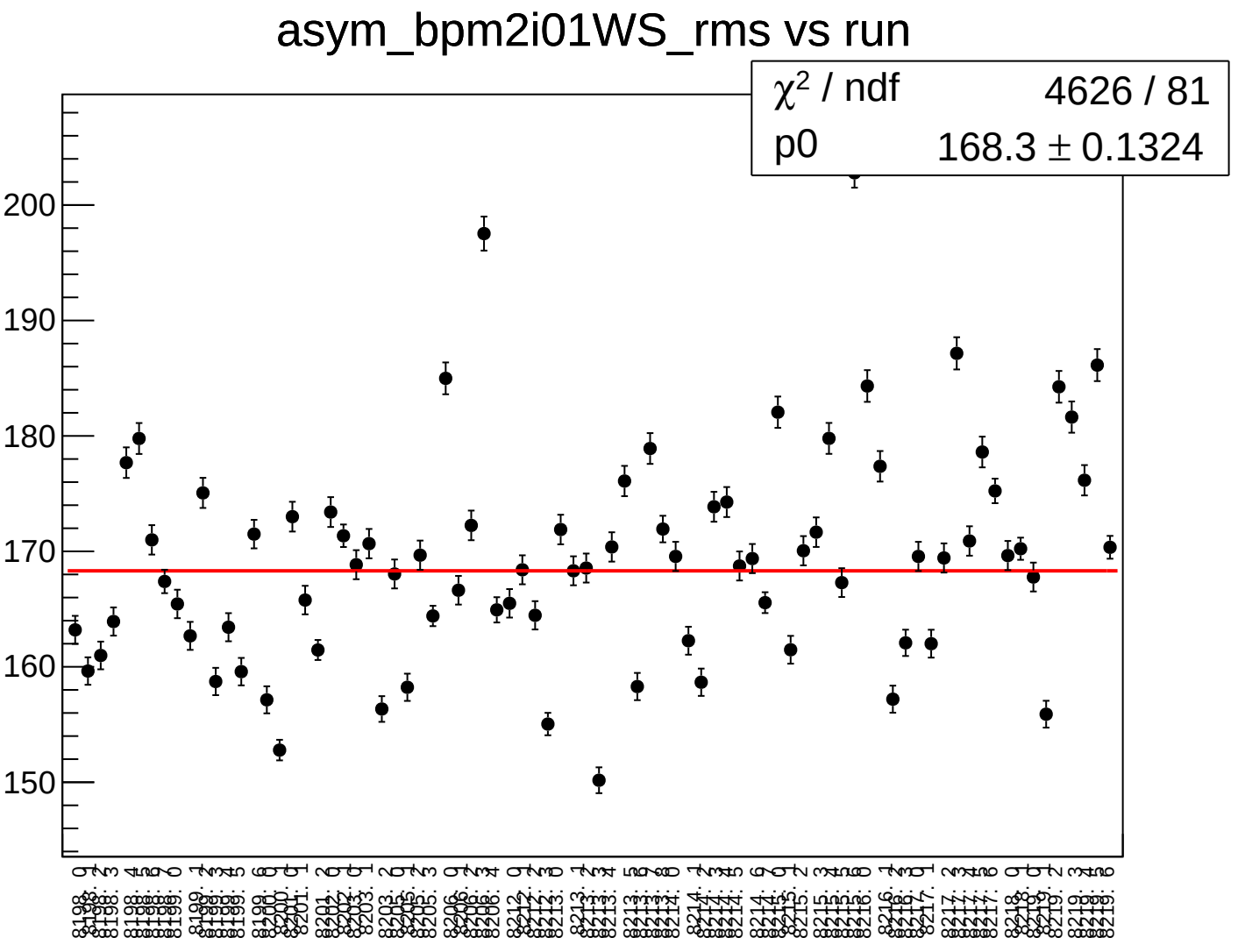

asym_bpm0i07WS_rms vs run
χ² / ndf 3718 / 81
p0 247.1 ± 0.1943
320
300
280
260
240
220

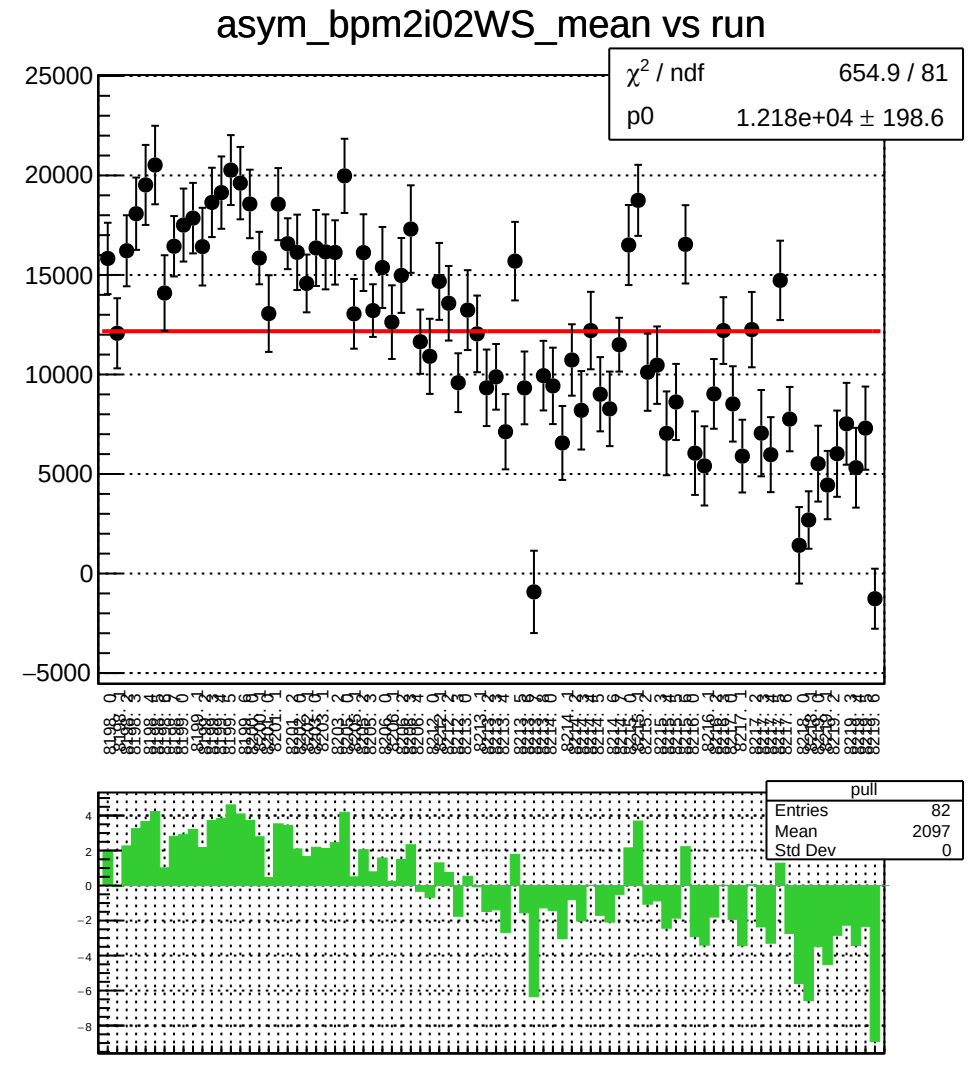

asym_bpm1i02WS_mean vs run
χ² / ndf 713.8 / 81
p0 1.259e+04 ± 194.9
pull
Entries 82
Mean 1149
Std Dev 0

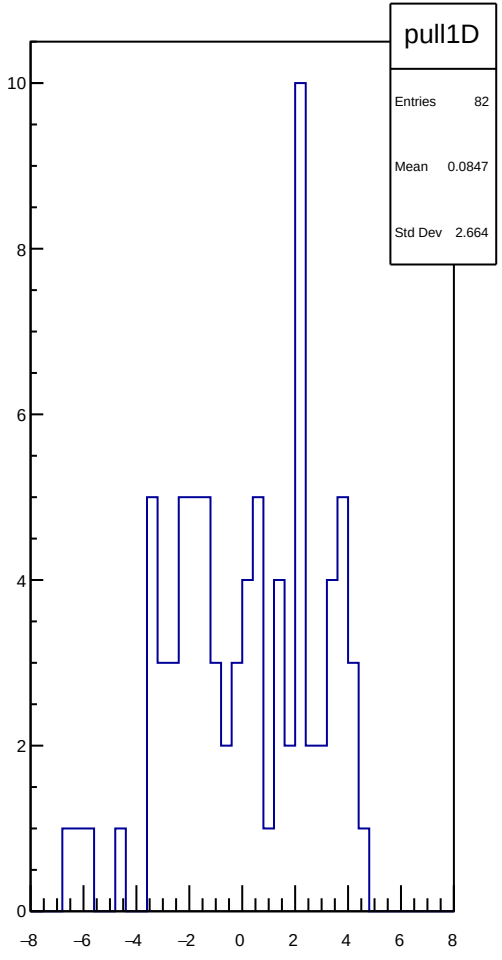

pull1D
Entries 82
Mean 0.06988
Std Dev 2.77

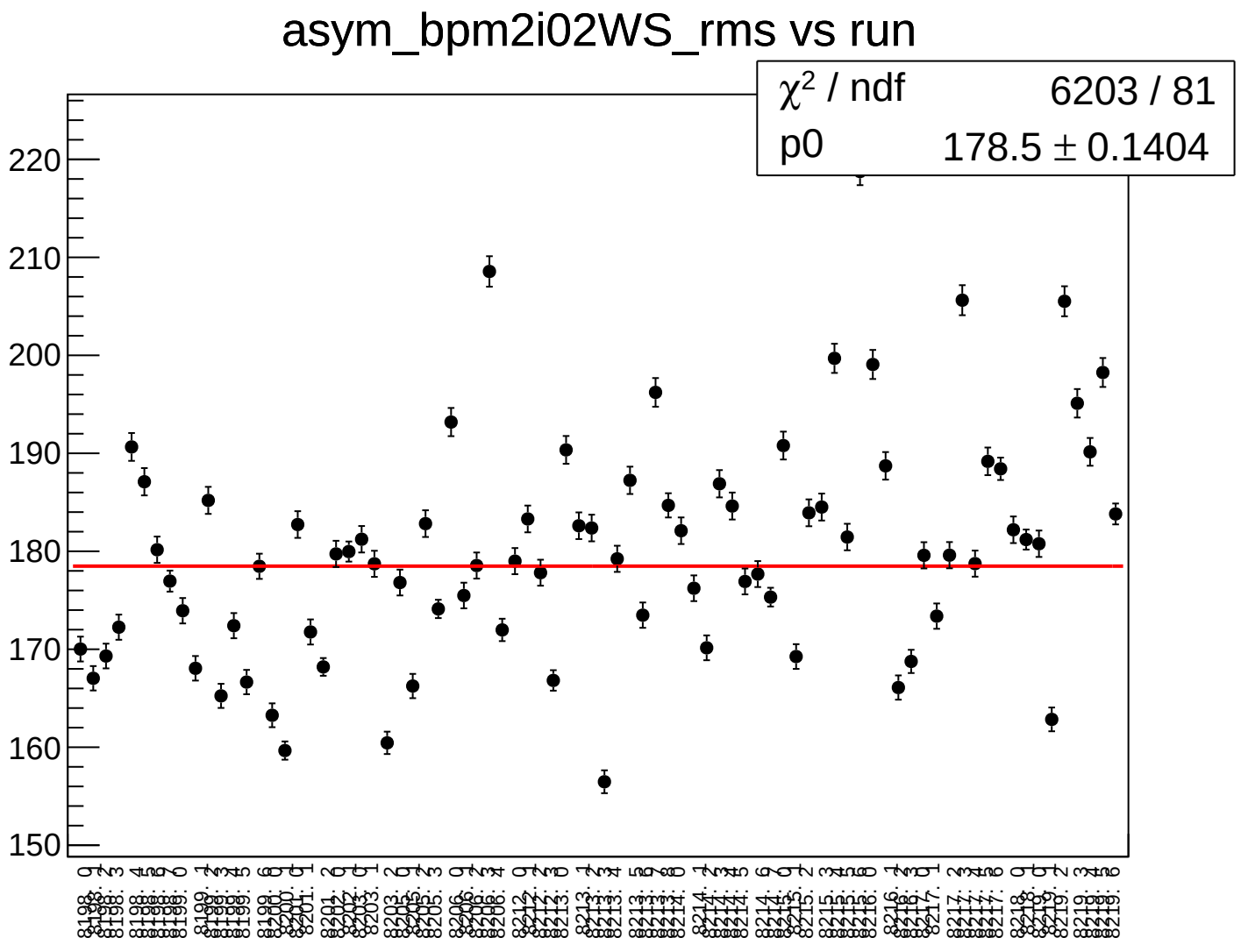

asym_bpm1i02WS_rms vs run
χ² / ndf 5858 / 81
p0 175.2 ± 0.1378
210
200
190
180
170
160
150

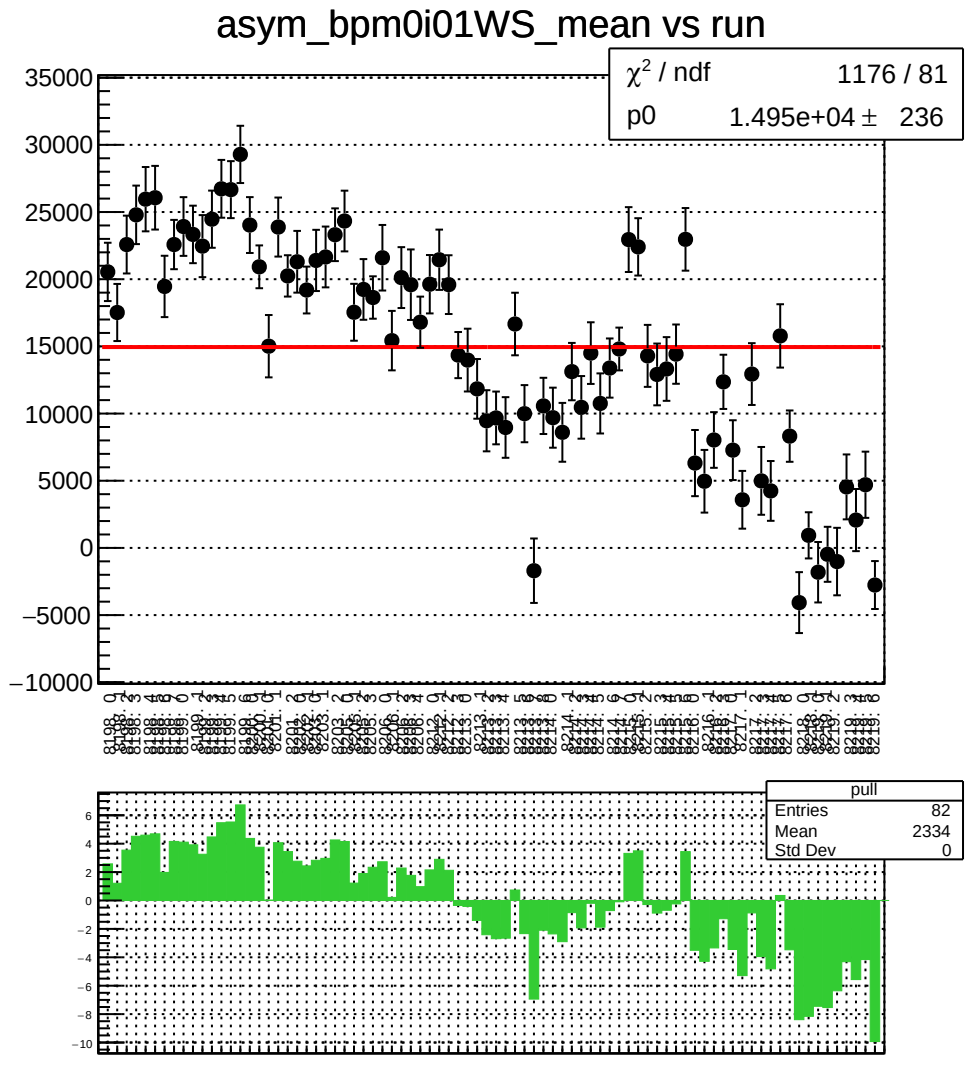

asym_bpm2i01WS_mean vs run
χ² / ndf 728.4 / 81
p0 1.18e+04 ± 187.2
pull
Entries 82
Mean 1.115e+04
Std Dev 0
pull1D
Entries 82
Mean 0.1047
Std Dev 2.829

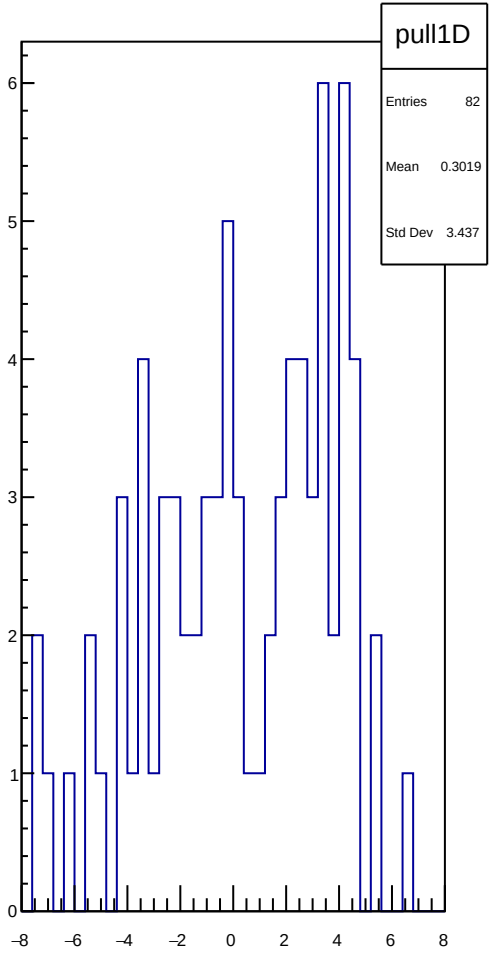

asym_bpm2i01WS_rms vs run
χ² / ndf 4626 / 81
p0 168.3 ± 0.1324
200
190
180
170
160
150

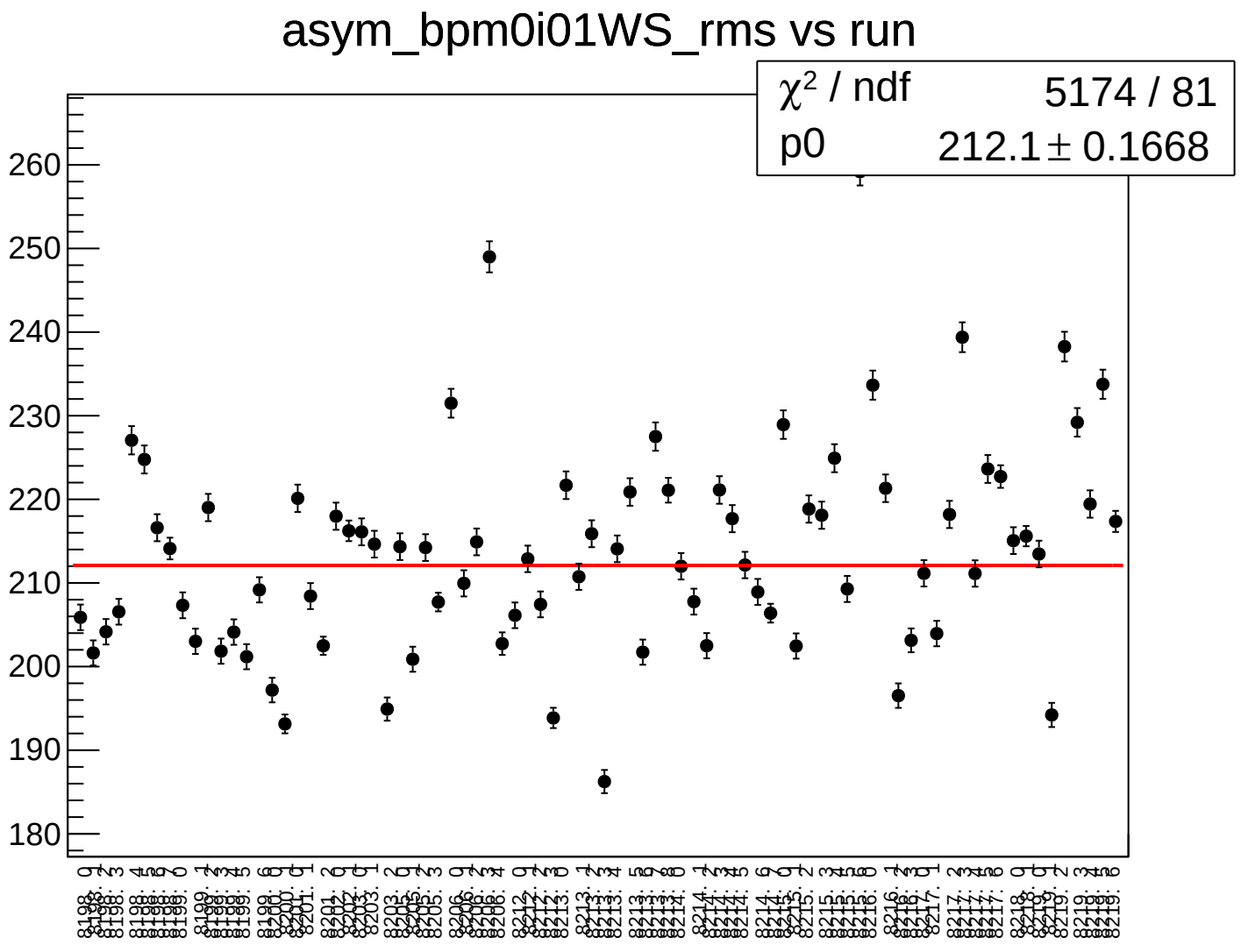

asym_bpm2i02WS_mean vs run
χ² / ndf 654.9 / 81
p0 1.218e+04 ± 198.6
pull
Entries 82
Mean 2097
Std Dev 0

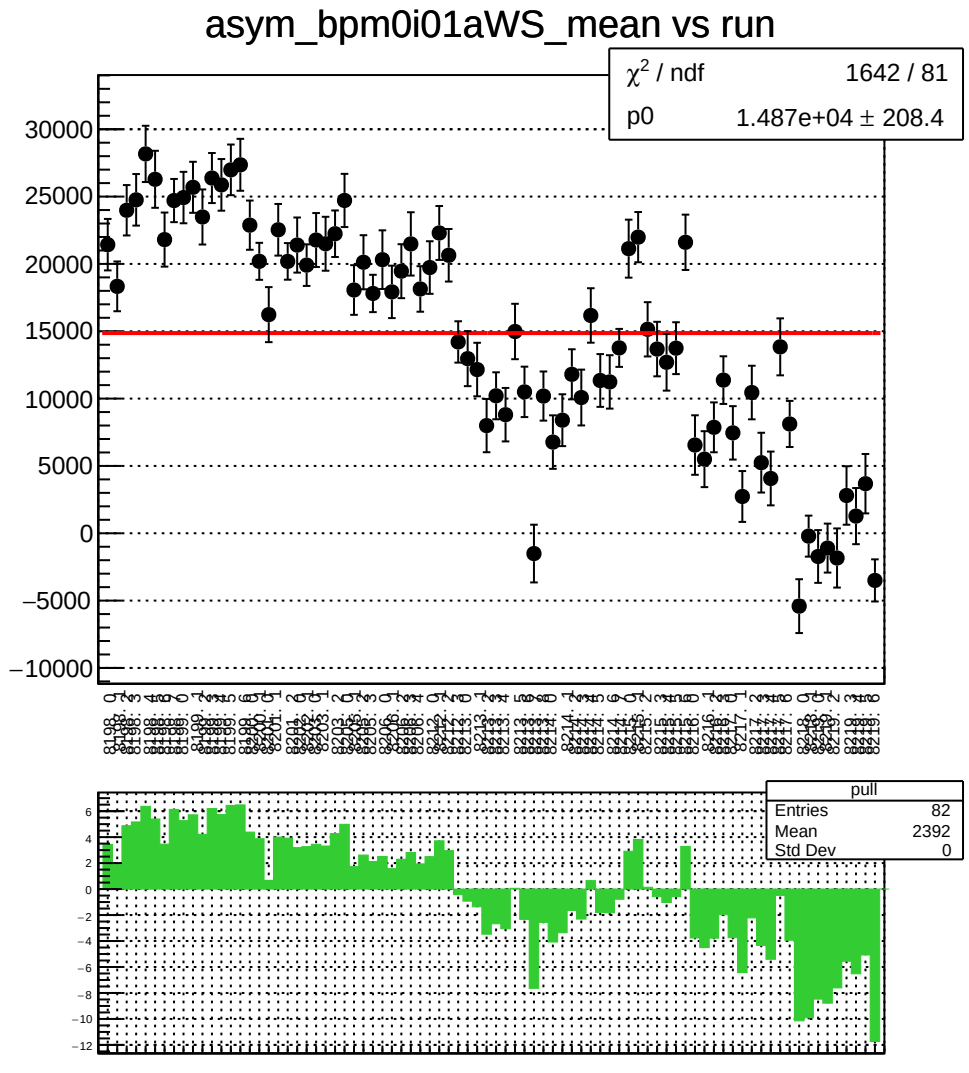

pull1D
Entries 82
Mean 0.0847
Std Dev 2.664

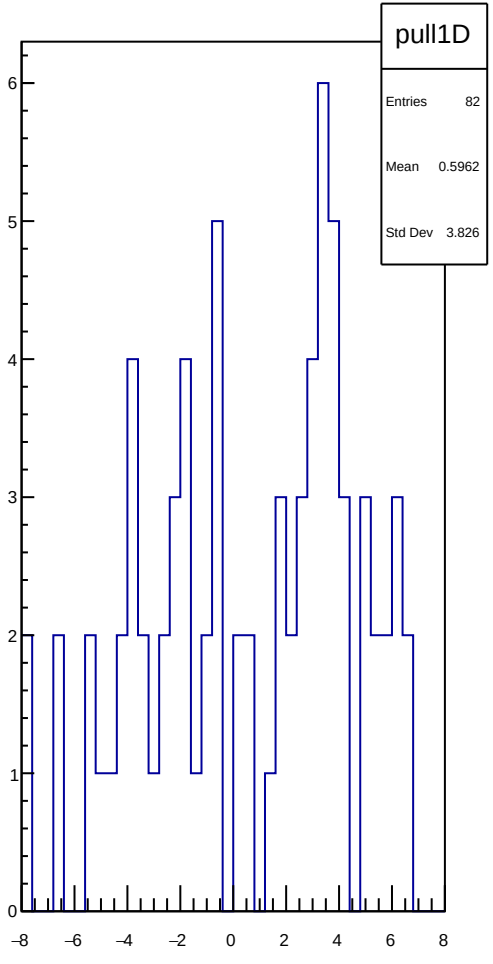

asym_bpm2i02WS_rms vs run
χ² / ndf 6203 / 81
p0 178.5 ± 0.1404
220
210
200
190
180
170
160
150

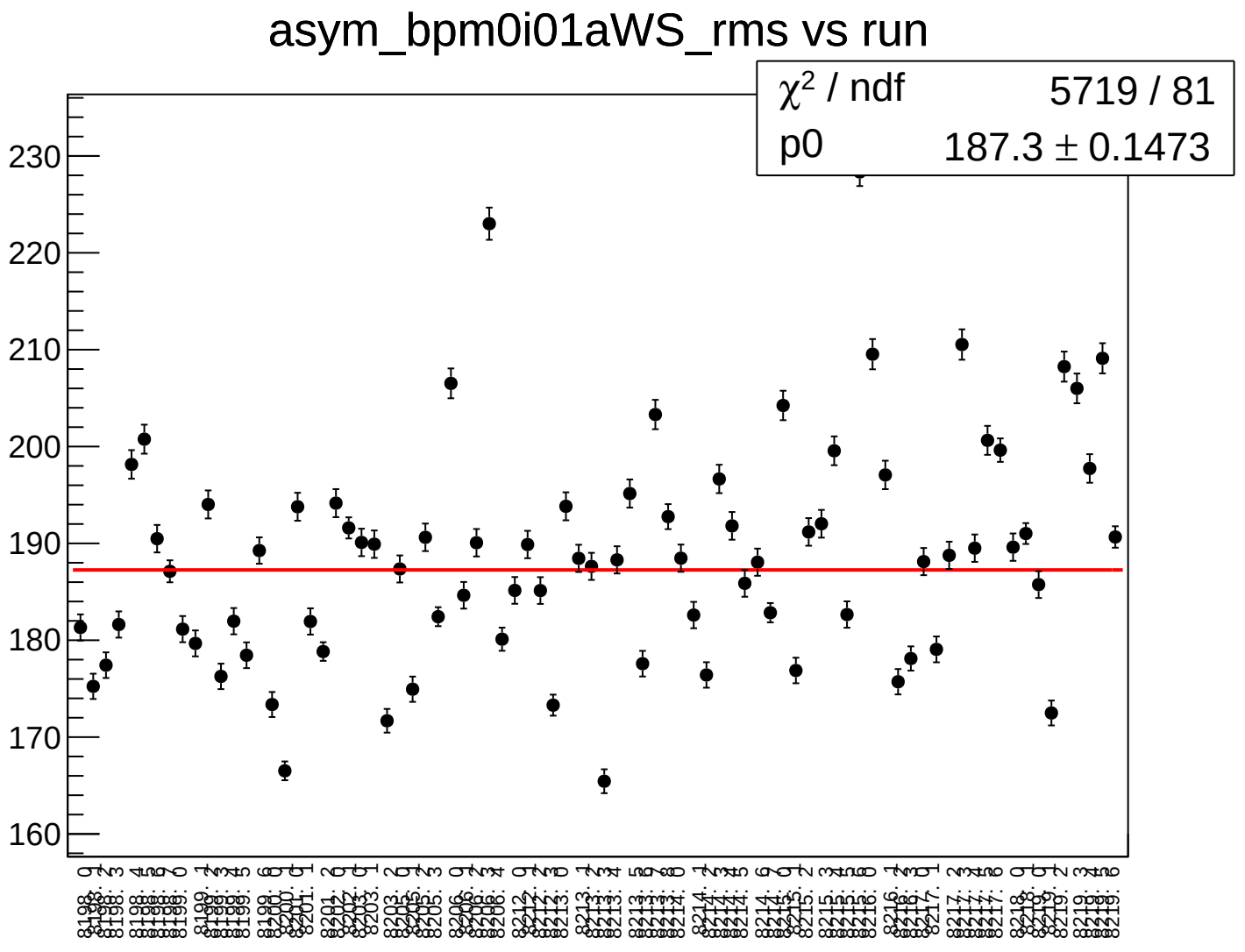

asym_bpm0i01WS_mean vs run
χ² / ndf 1176 / 81
p0 1.495e+04 ± 236
pull
Entries 82
Mean 2334
Std Dev 0

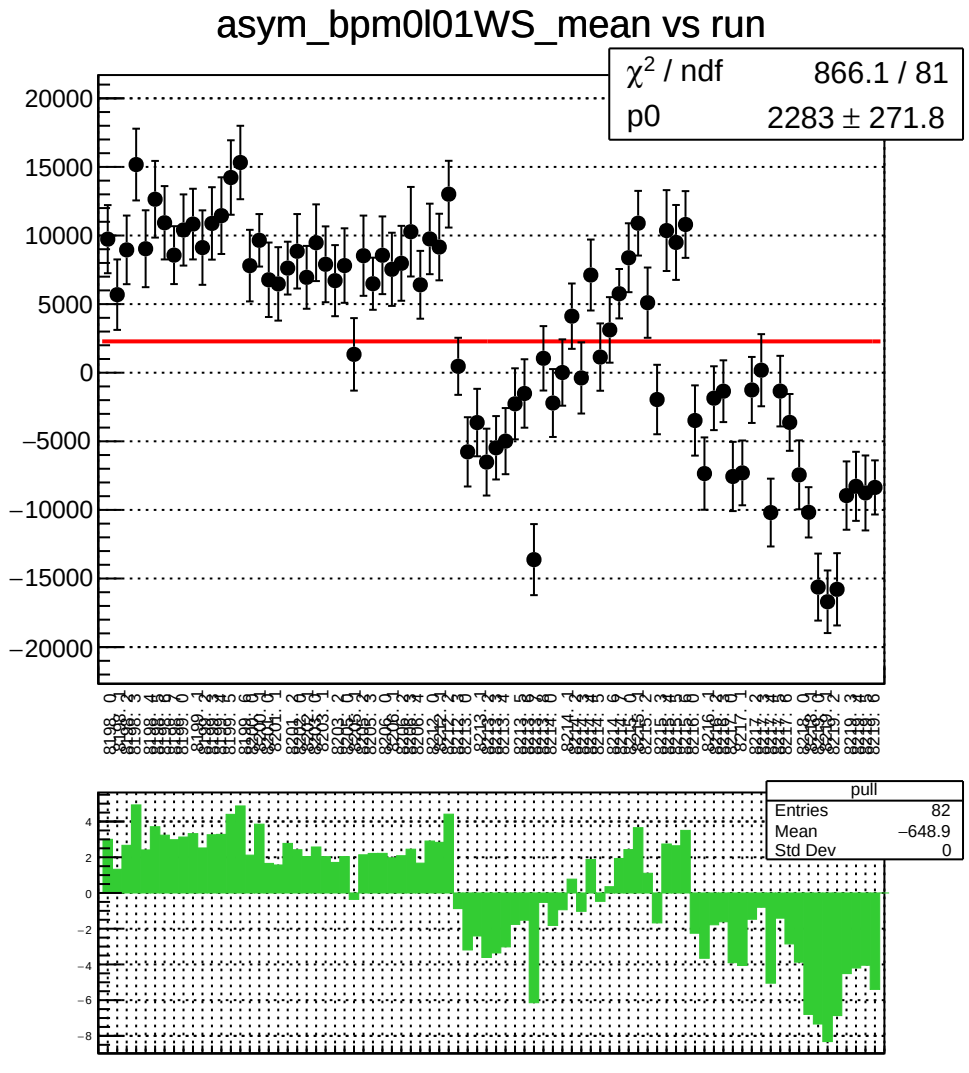

pull1D
Entries 82
Mean 0.3019
Std Dev 3.437

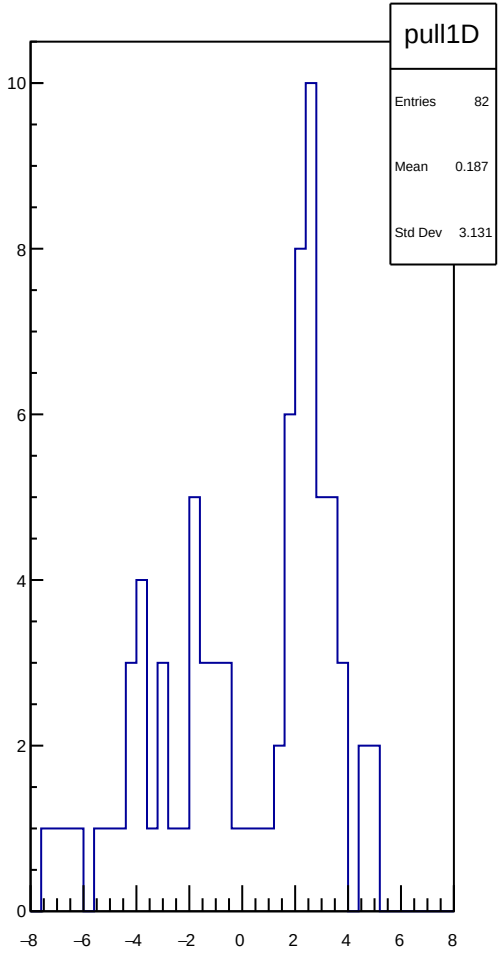

asym_bpm0i01WS_rms vs run
χ² / ndf 5174 / 81
p0 212.1 ± 0.1668
260
250
240
230
220
210
200
190
180

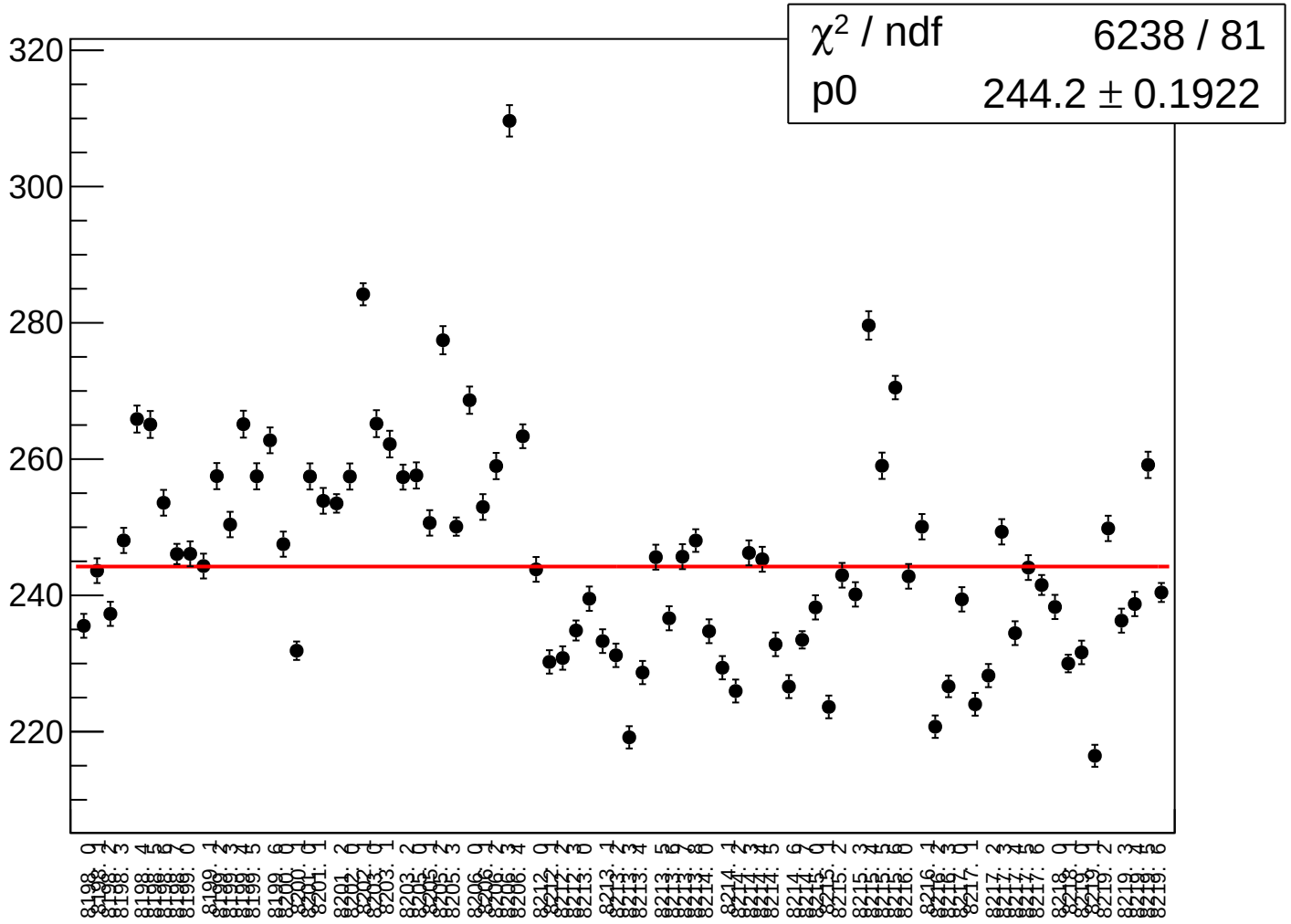

asym_bpm0i01aWS_mean vs run
χ² / ndf 1642 / 81
p0 1.487e+04 ± 208.4
pull
Entries 82
Mean 2392
Std Dev 0

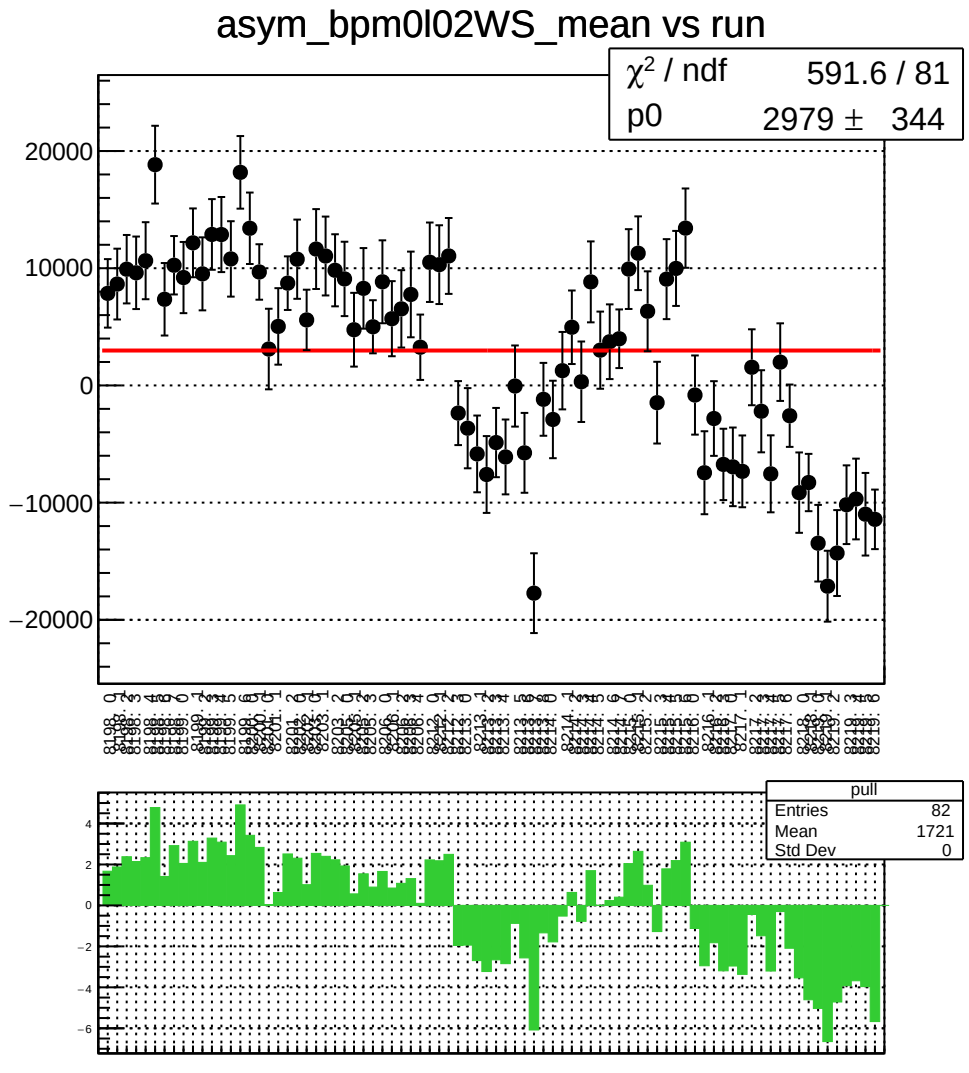

pull1D
Entries 82
Mean 0.5962
Std Dev 3.826

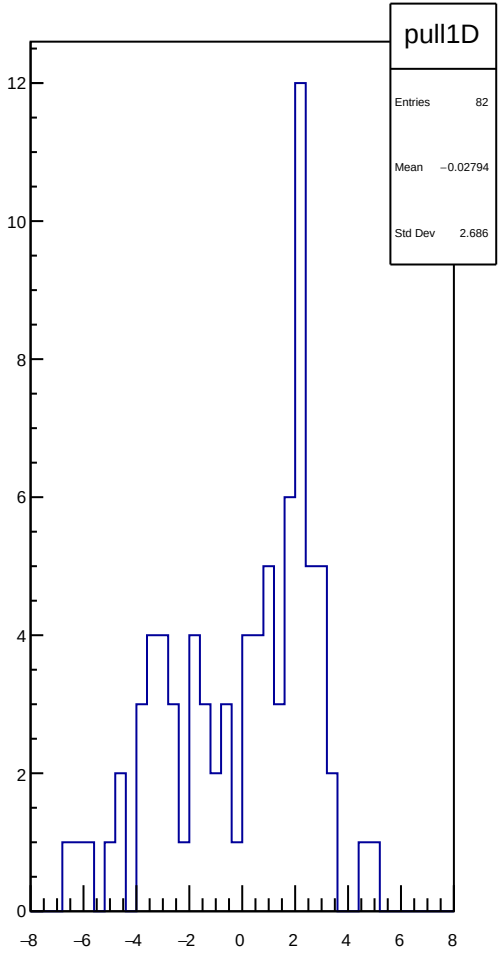

asym_bpm0i01aWS_rms vs run
$\chi^2$ / ndf 5719 / 81
p0 187.3 ± 0.1473
230
220
210
200
190
180
170
160

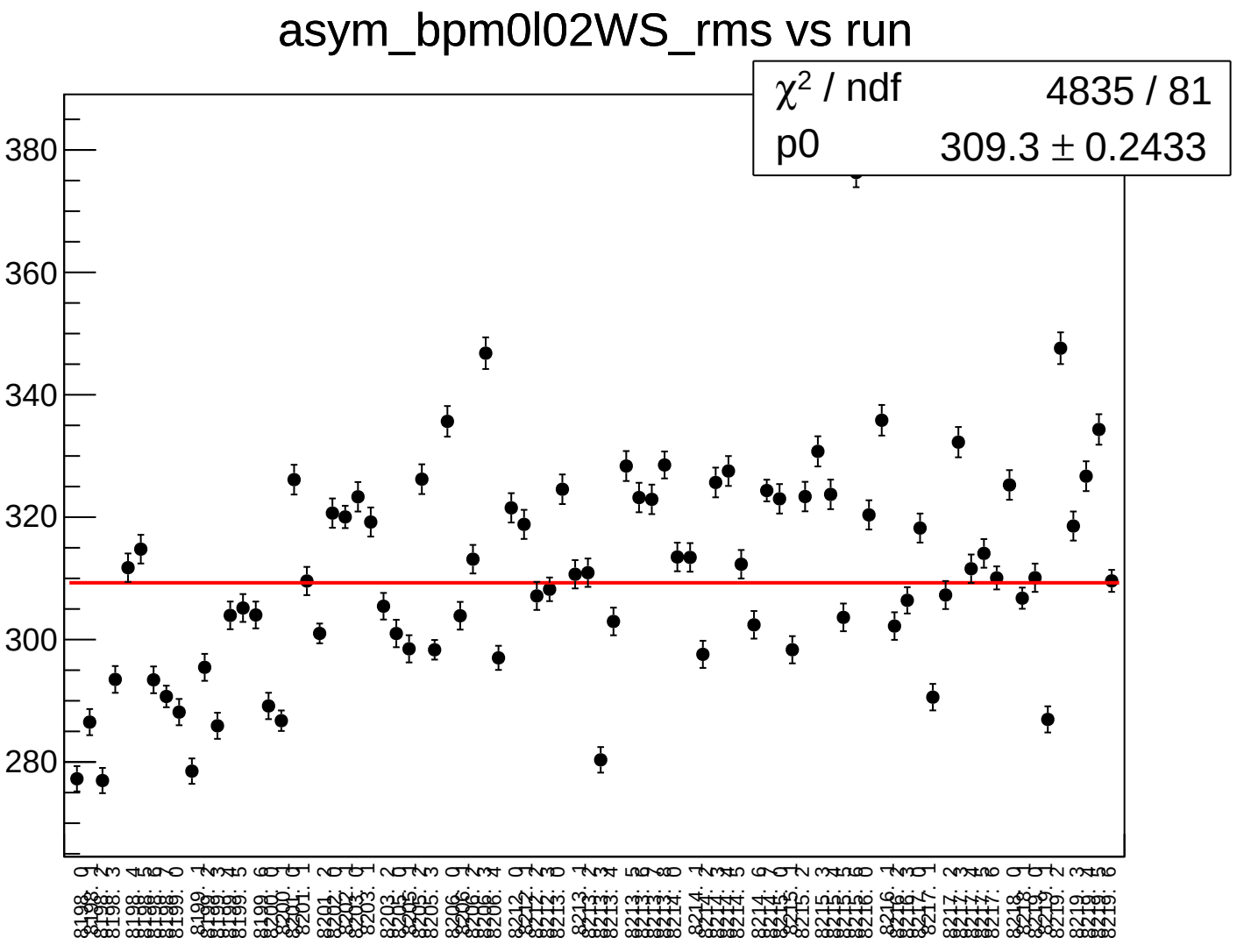

asym_bpm0l01WS_mean vs run
χ² / ndf 866.1 / 81
p0 2283 ± 271.8
pull
Entries 82
Mean −648.9
Std Dev 0

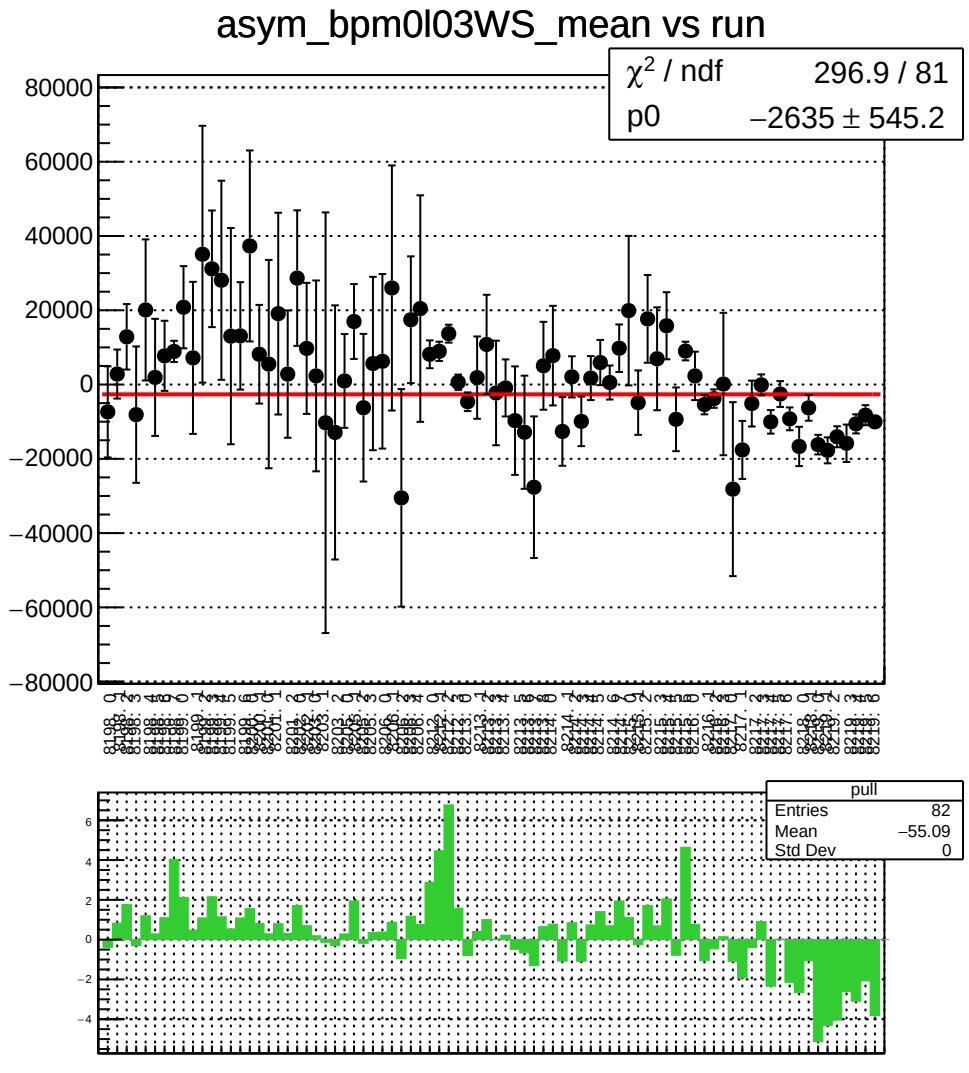

pull1D
Entries 82
Mean 0.187
Std Dev 3.131

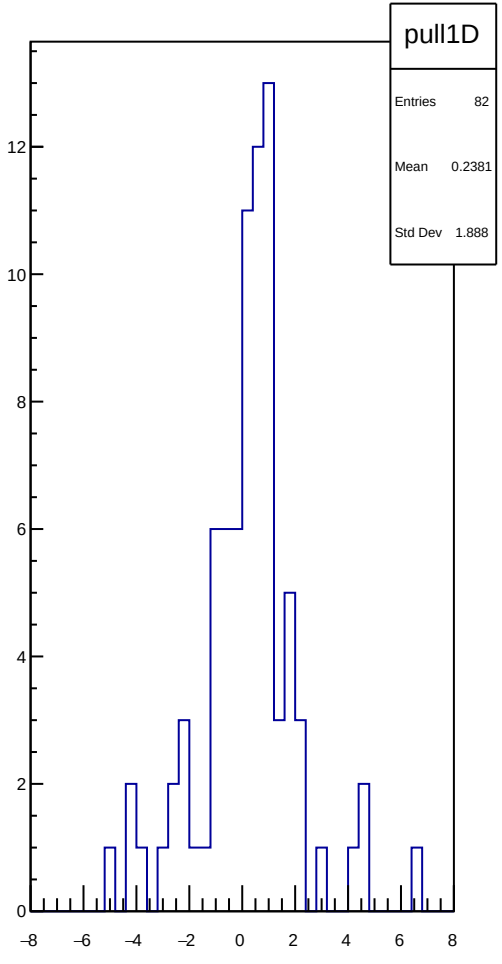

asym_bpm0l01WS_rms vs run
χ² / ndf 6238 / 81
p0 244.2 ± 0.1922
320
300
280
260
240
220

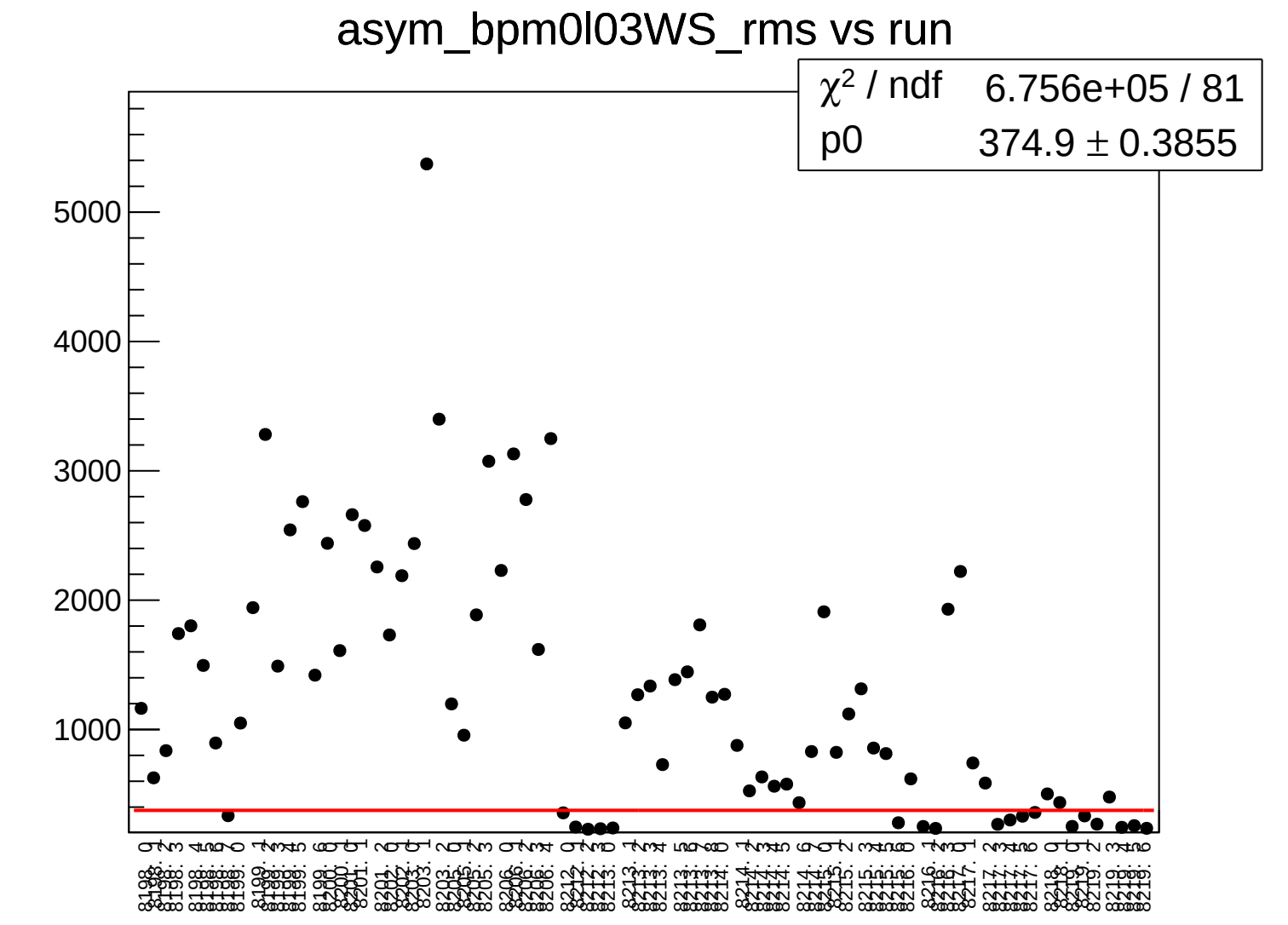

asym_bpm0l02WS_mean vs run
χ² / ndf 591.6 / 81
p0 2979 ± 344
20000
10000
0
−10000
−20000
pull
Entries 82
Mean 1721
Std Dev 0
4
2
0
−2
−4
−6

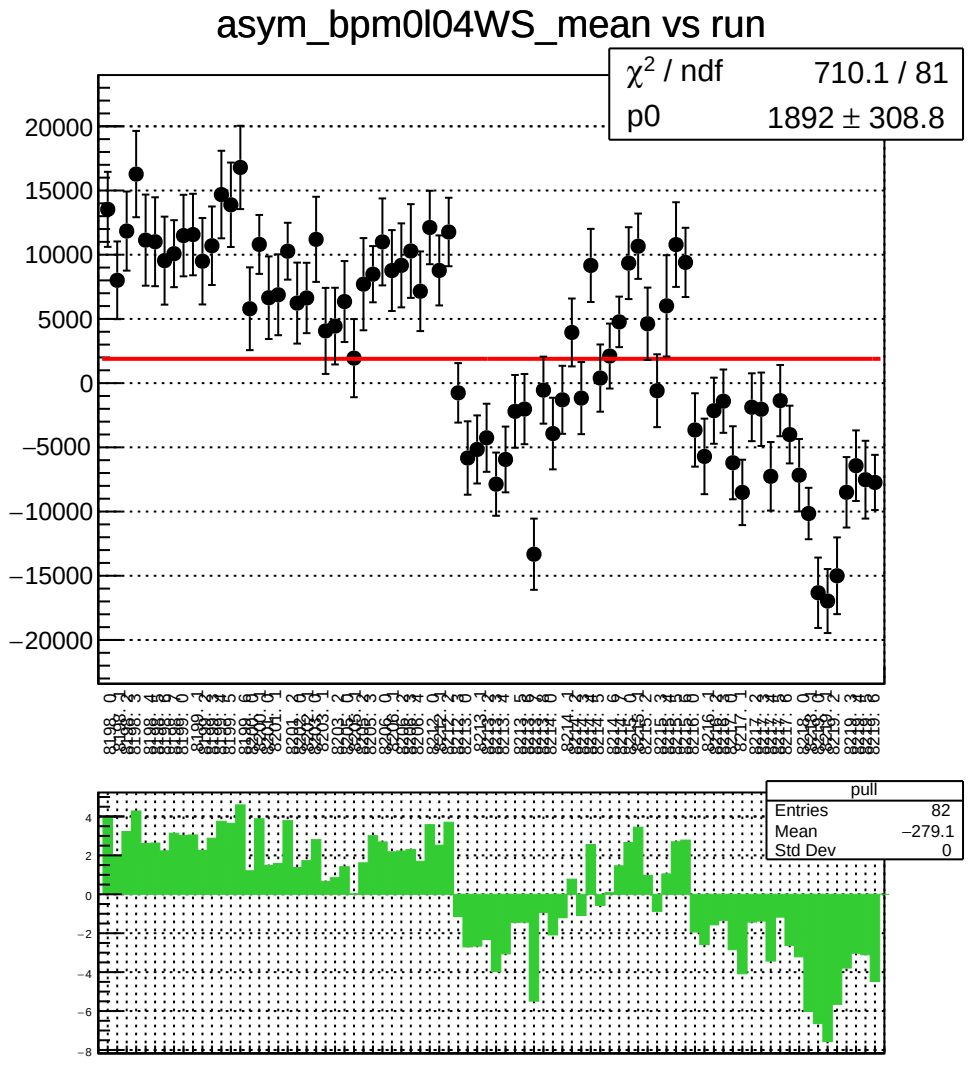

pull1D
Entries 82
Mean −0.02794
Std Dev 2.686
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

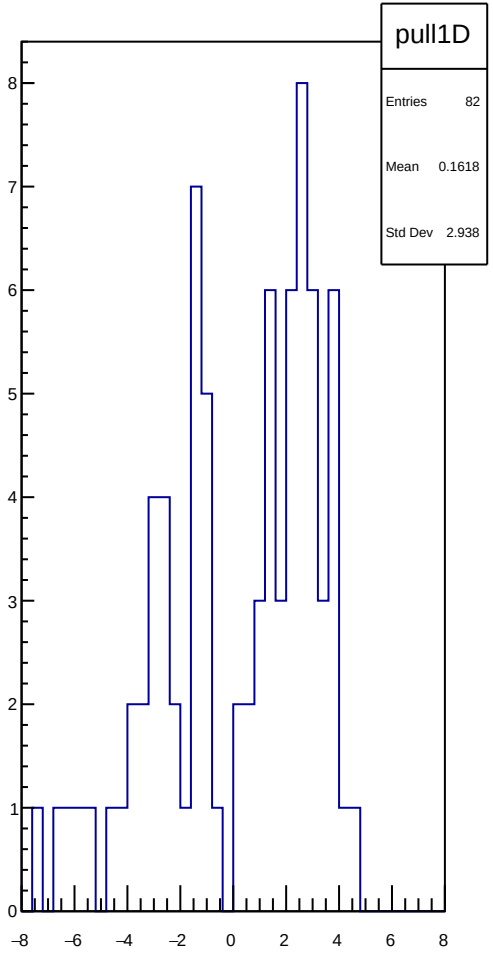

asym_bpm0l02WS_rms vs run
χ² / ndf 4835 / 81
p0 309.3 ± 0.2433
380
360
340
320
300
280

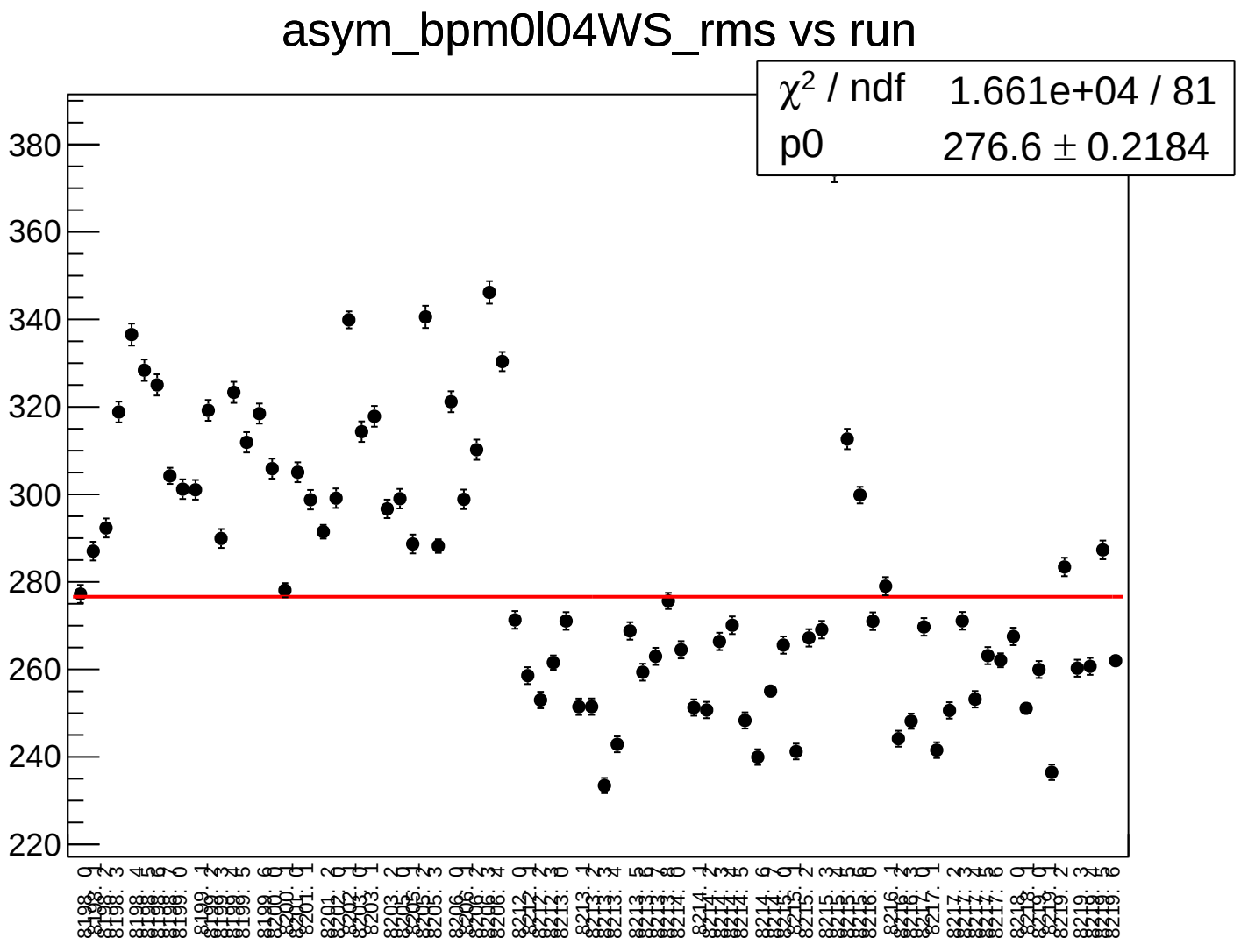

asym_bpm0l03WS_mean vs run
χ² / ndf 296.9 / 81
p0 −2635 ± 545.2
pull
Entries 82
Mean −55.09
Std Dev 0

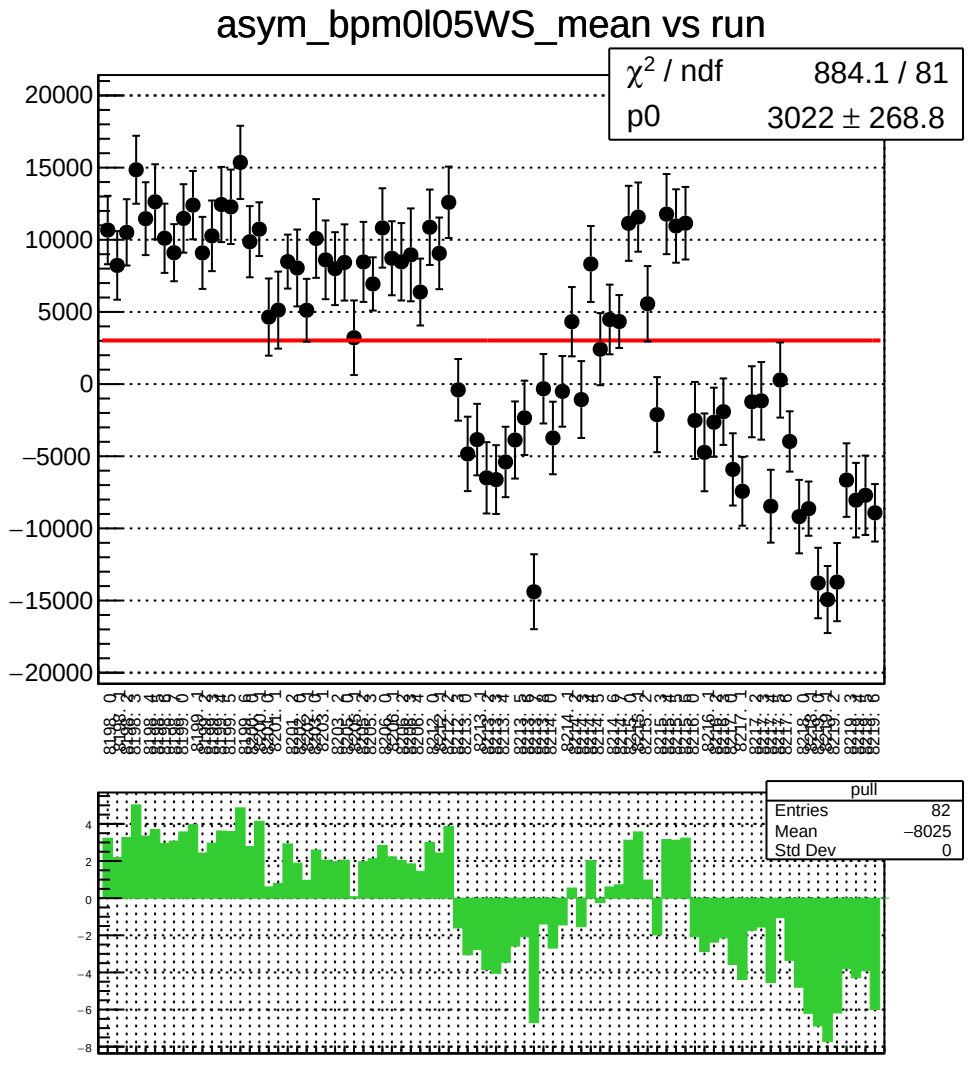

pull1D
Entries 82
Mean 0.2381
Std Dev 1.888

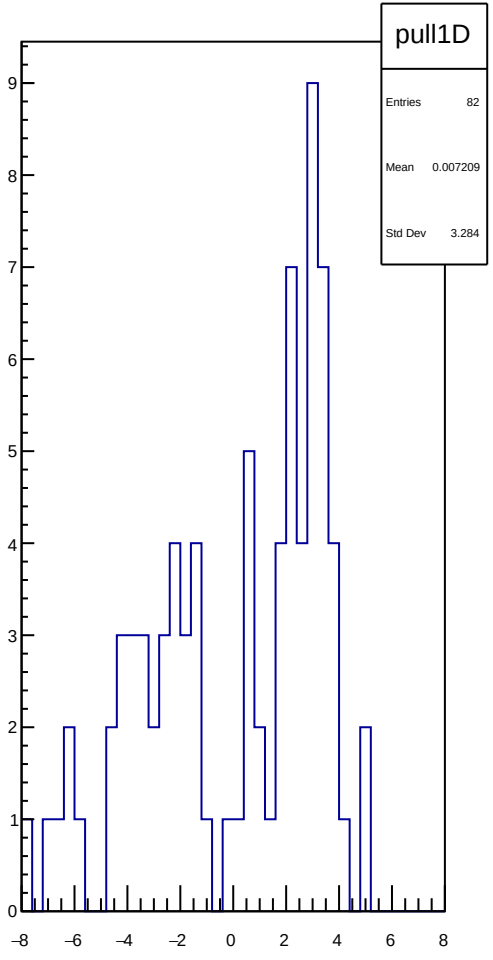

asym_bpm0l03WS_rms vs run
$\chi^2$ / ndf 6.756e+05 / 81
p0 374.9 ± 0.3855
5000
4000
3000
2000
1000

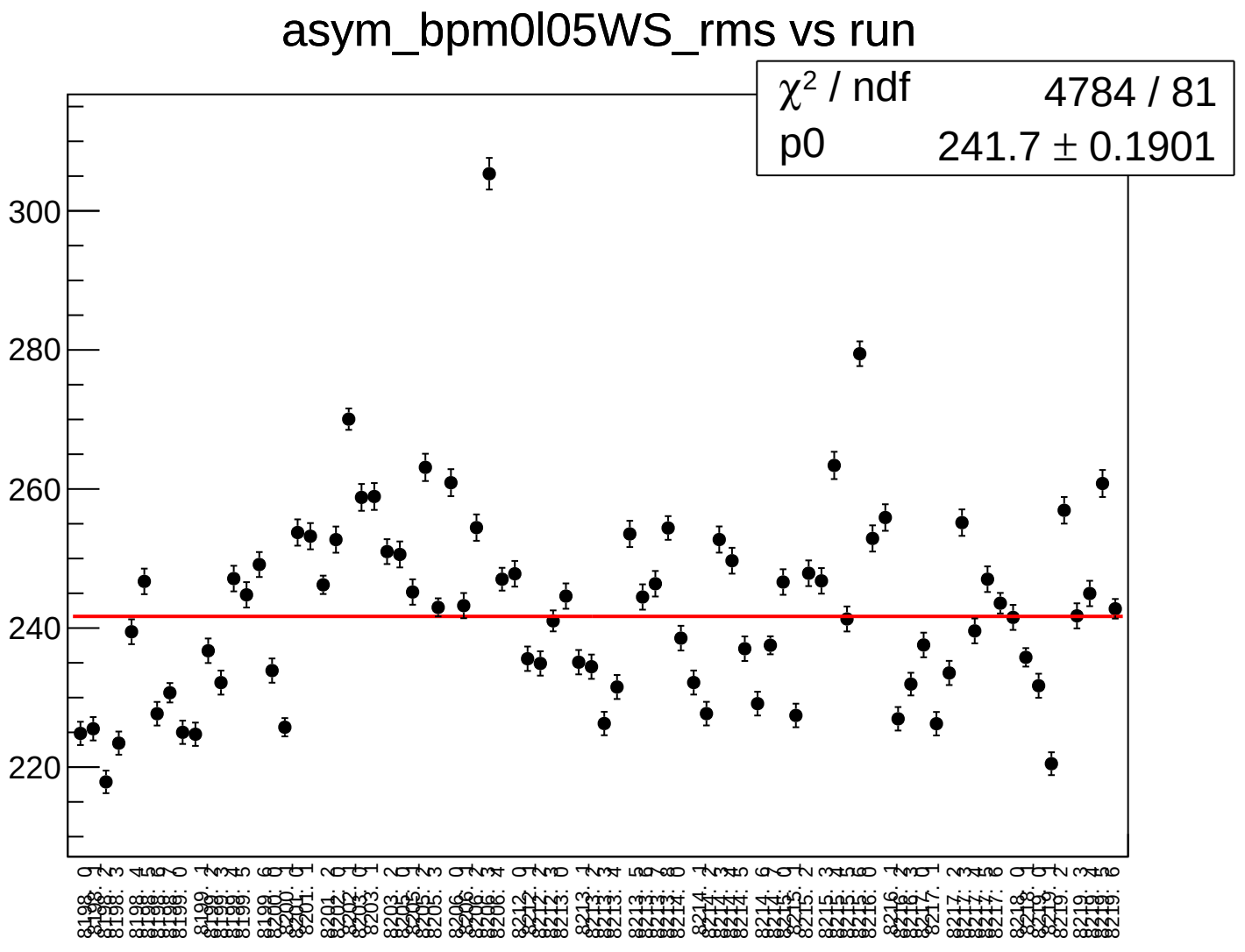

asym_bpm0l04WS_mean vs run
χ² / ndf 710.1 / 81
p0 1892 ± 308.8
pull
Entries 82
Mean −279.1
Std Dev 0

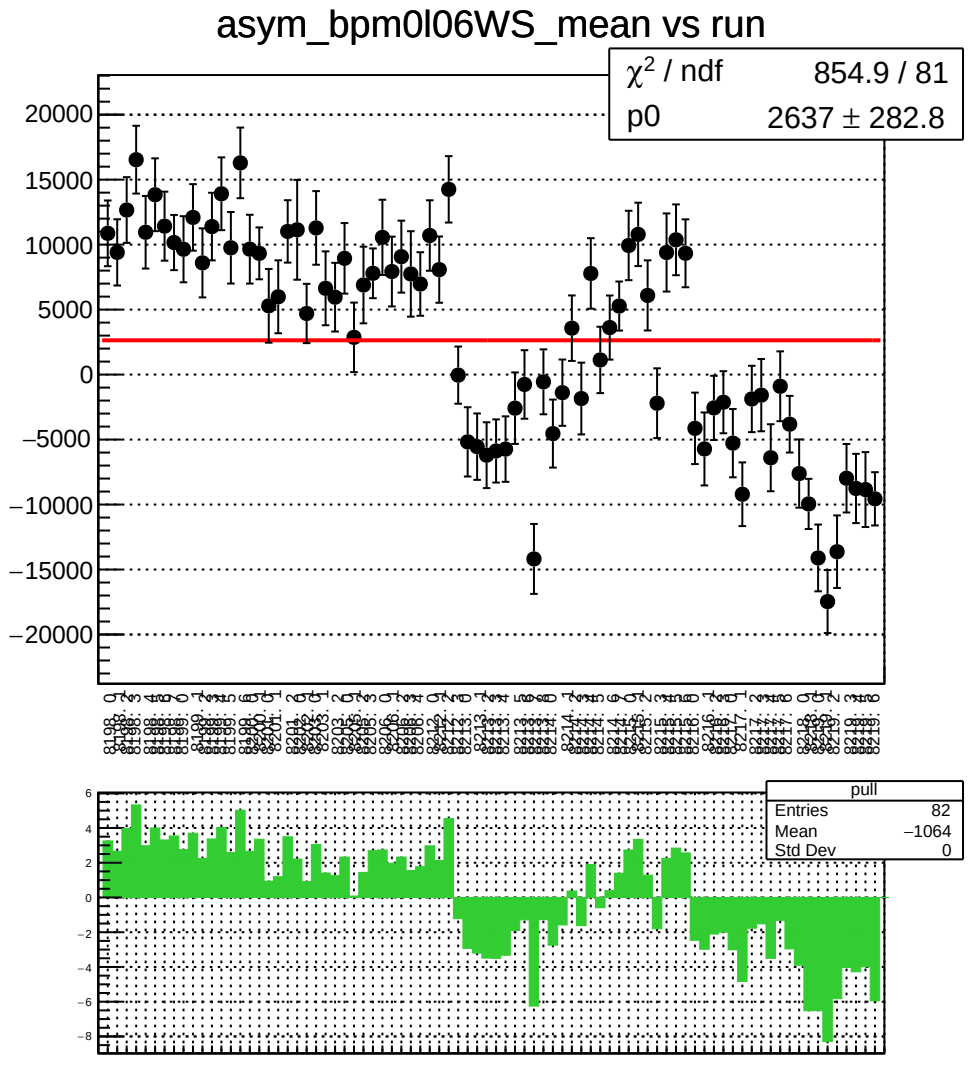

pull1D
Entries 82
Mean 0.1618
Std Dev 2.938

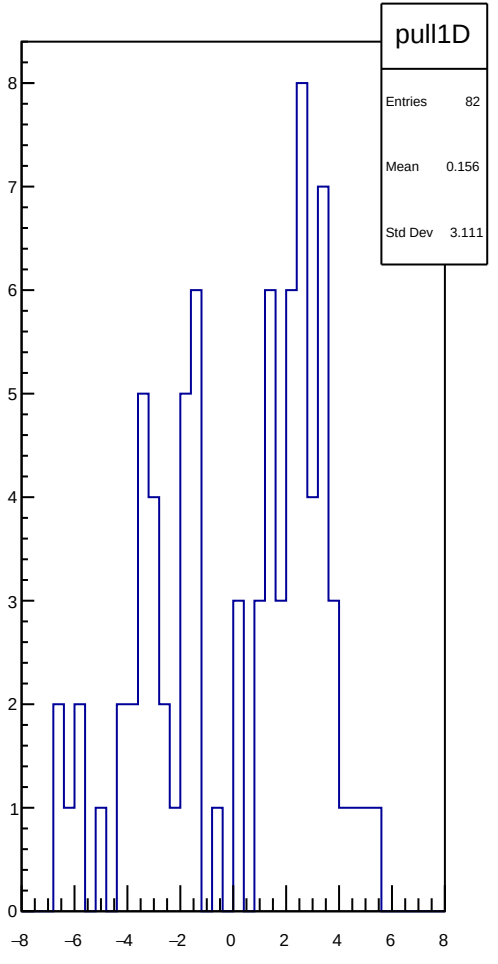

asym_bpm0l04WS_rms vs run
χ² / ndf 1.661e+04 / 81
p0 276.6 ± 0.2184
380
360
340
320
300
280
260
240
220

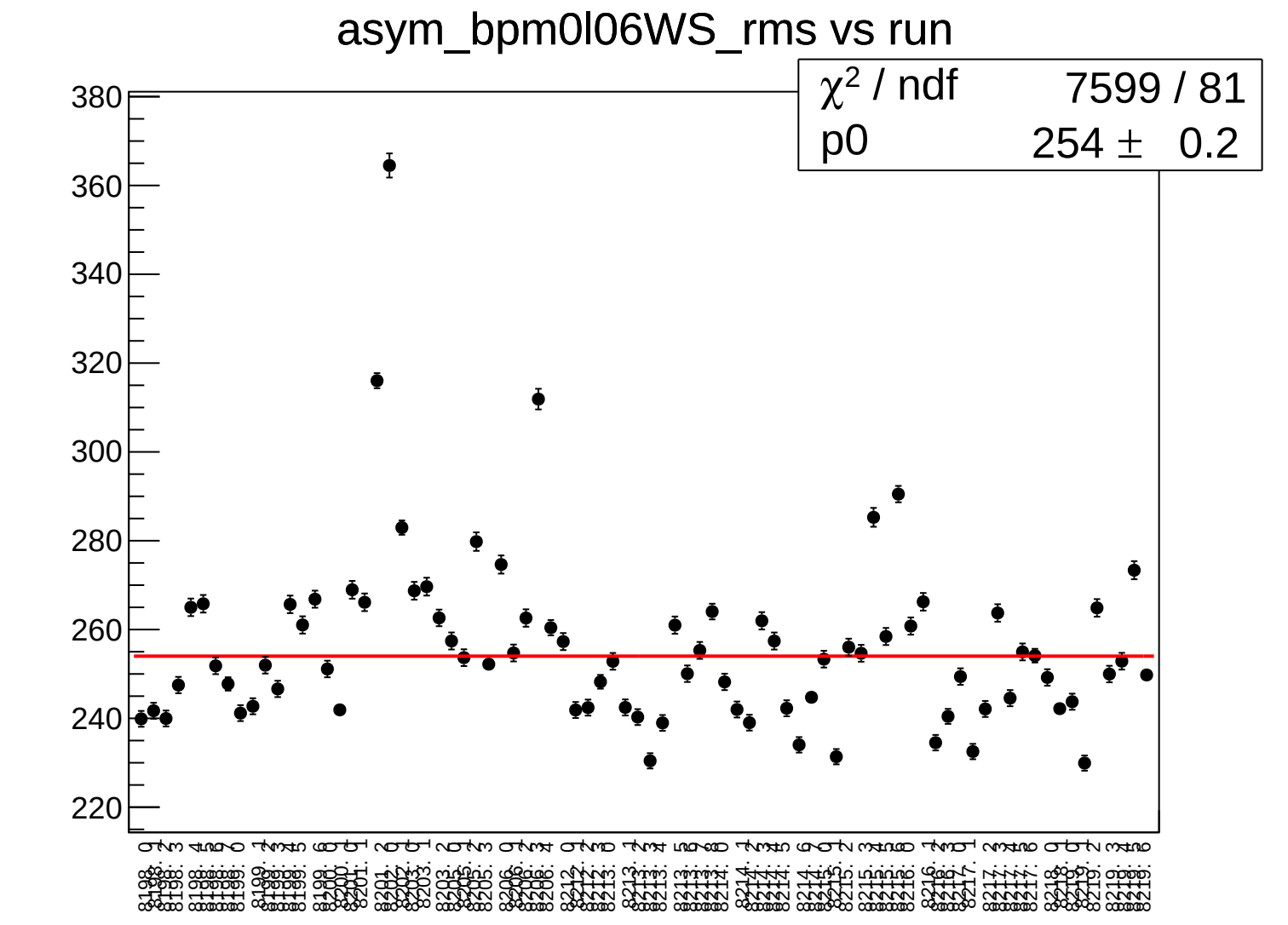

asym_bpm0l05WS_mean vs run
χ² / ndf 884.1 / 81
p0 3022 ± 268.8
pull
Entries 82
Mean −8025
Std Dev 0

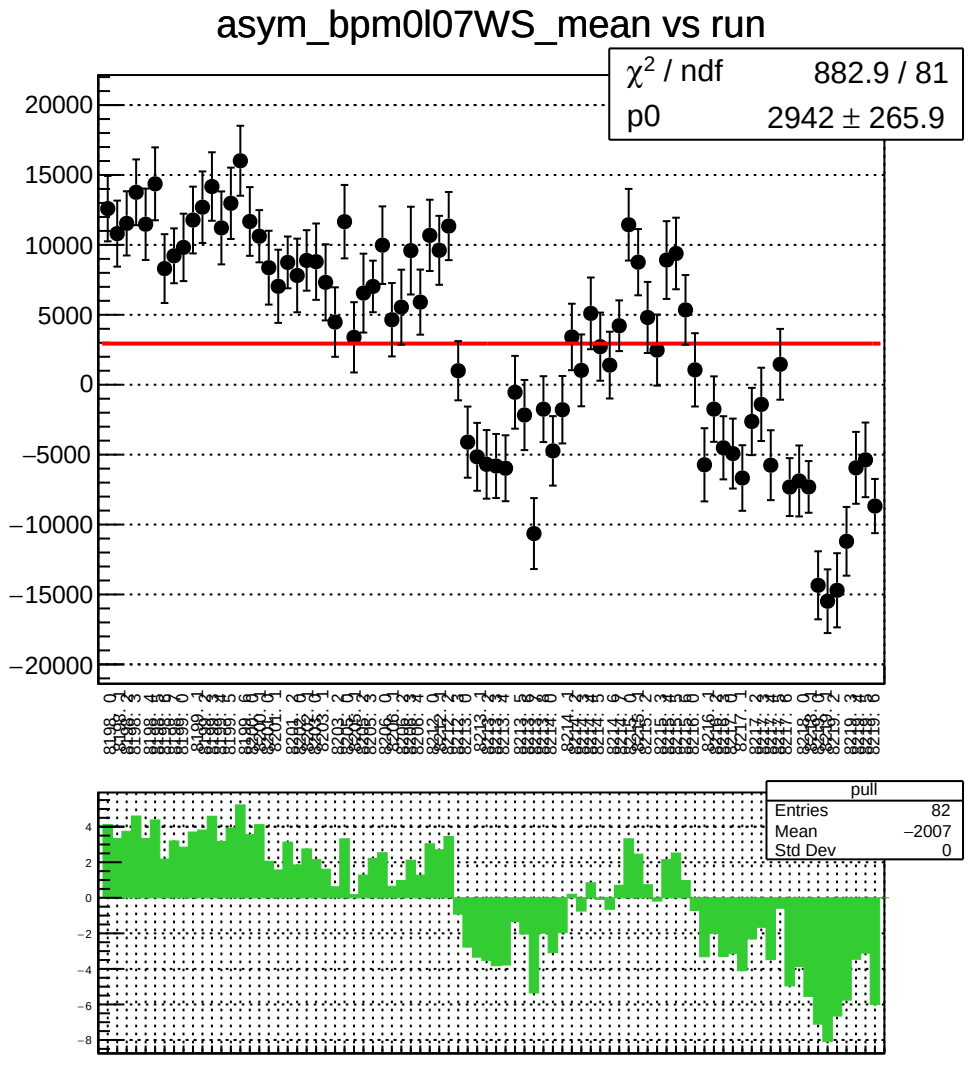

pull1D
Entries 82
Mean 0.007209
Std Dev 3.284

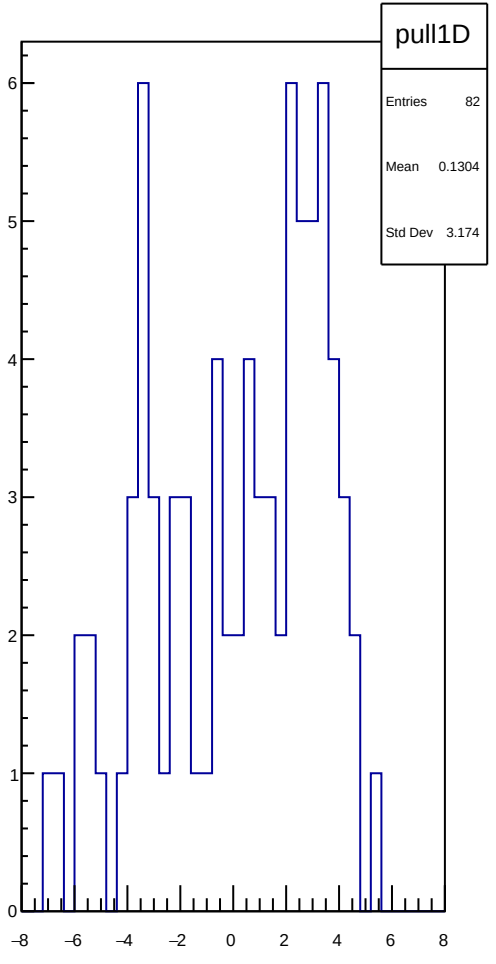

asym_bpm0l05WS_rms vs run
χ² / ndf 4784 / 81
p0 241.7 ± 0.1901
300
280
260
240
220

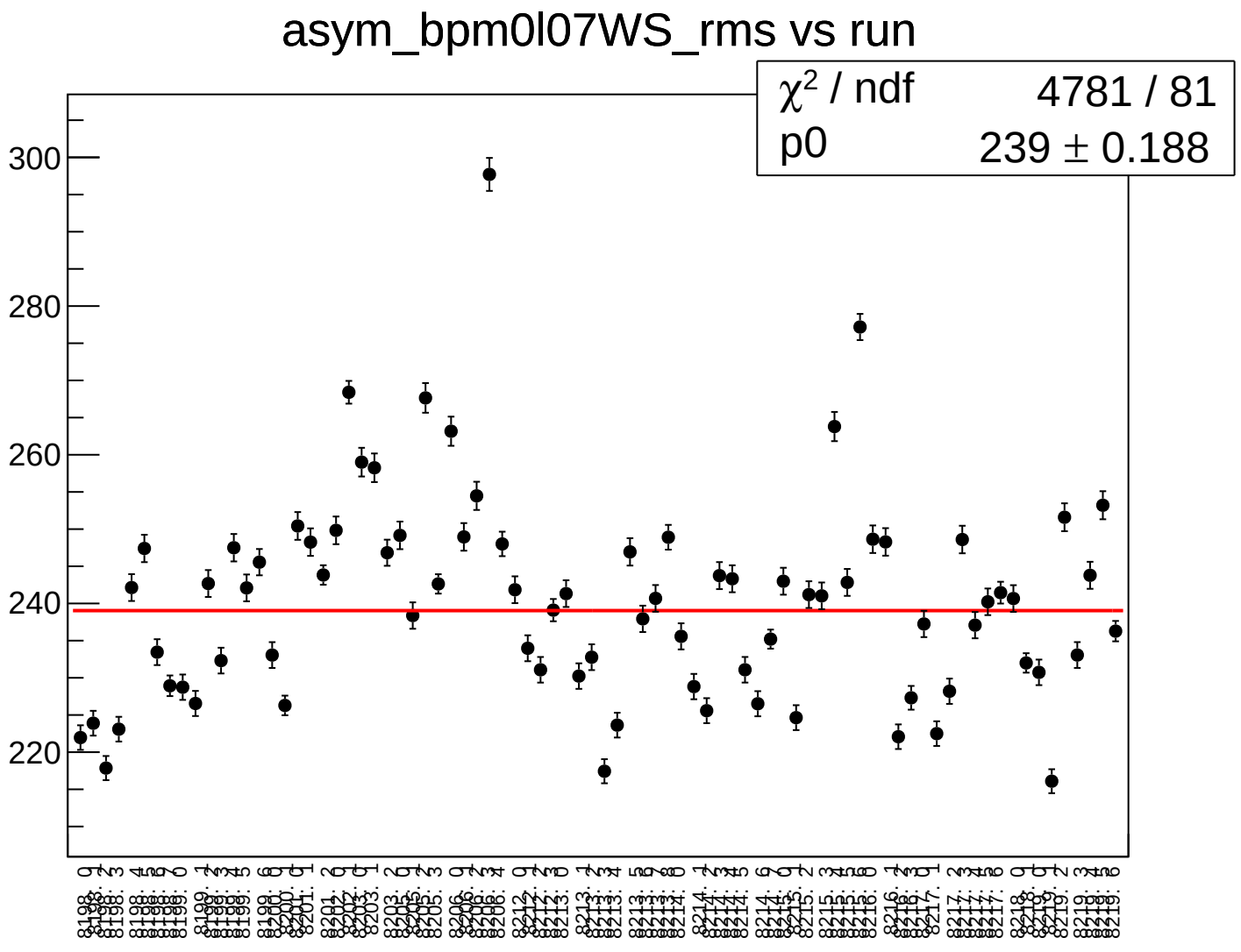

asym_bpm0l06WS_mean vs run
χ² / ndf 854.9 / 81
p0 2637 ± 282.8
pull
Entries 82
Mean −1064
Std Dev 0

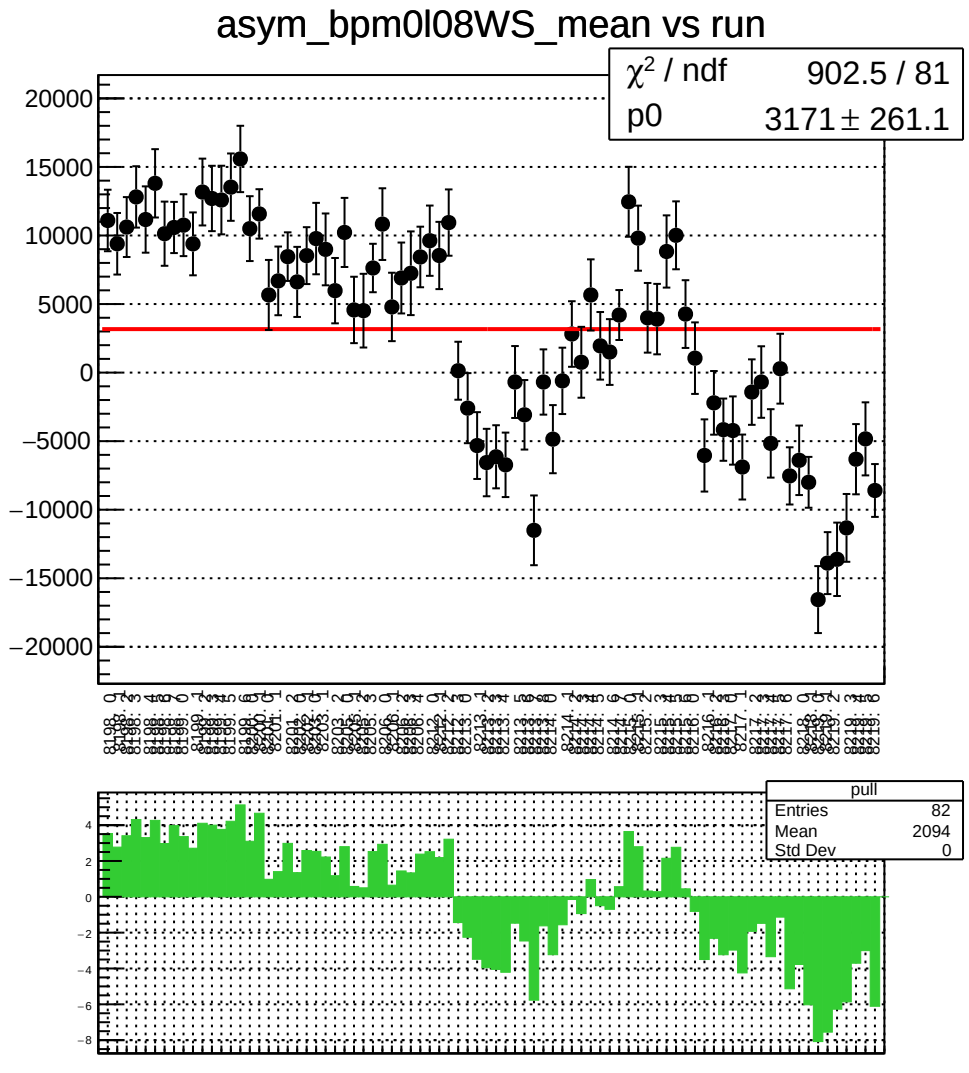

pull1D
Entries 82
Mean 0.156
Std Dev 3.111

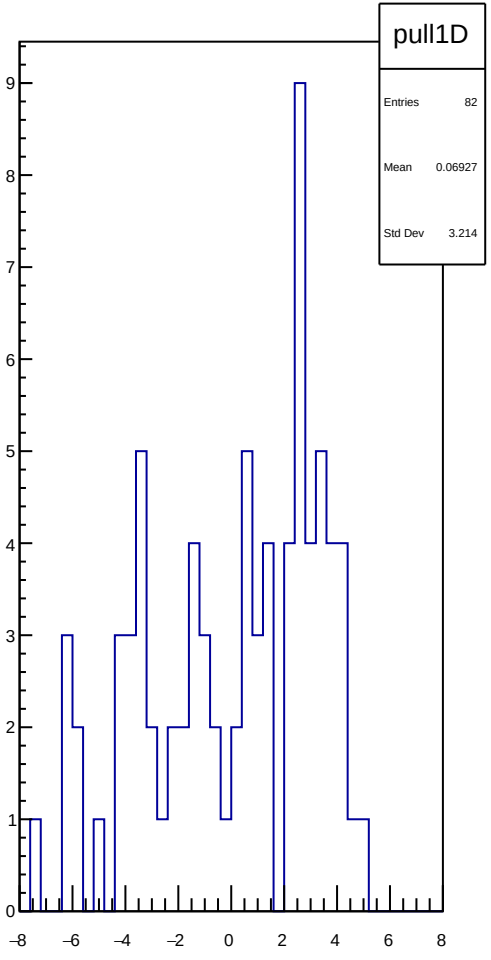

asym_bpm0l06WS_rms vs run
χ² / ndf 7599 / 81
p0 254 ± 0.2
380
360
340
320
300
280
260
240
220

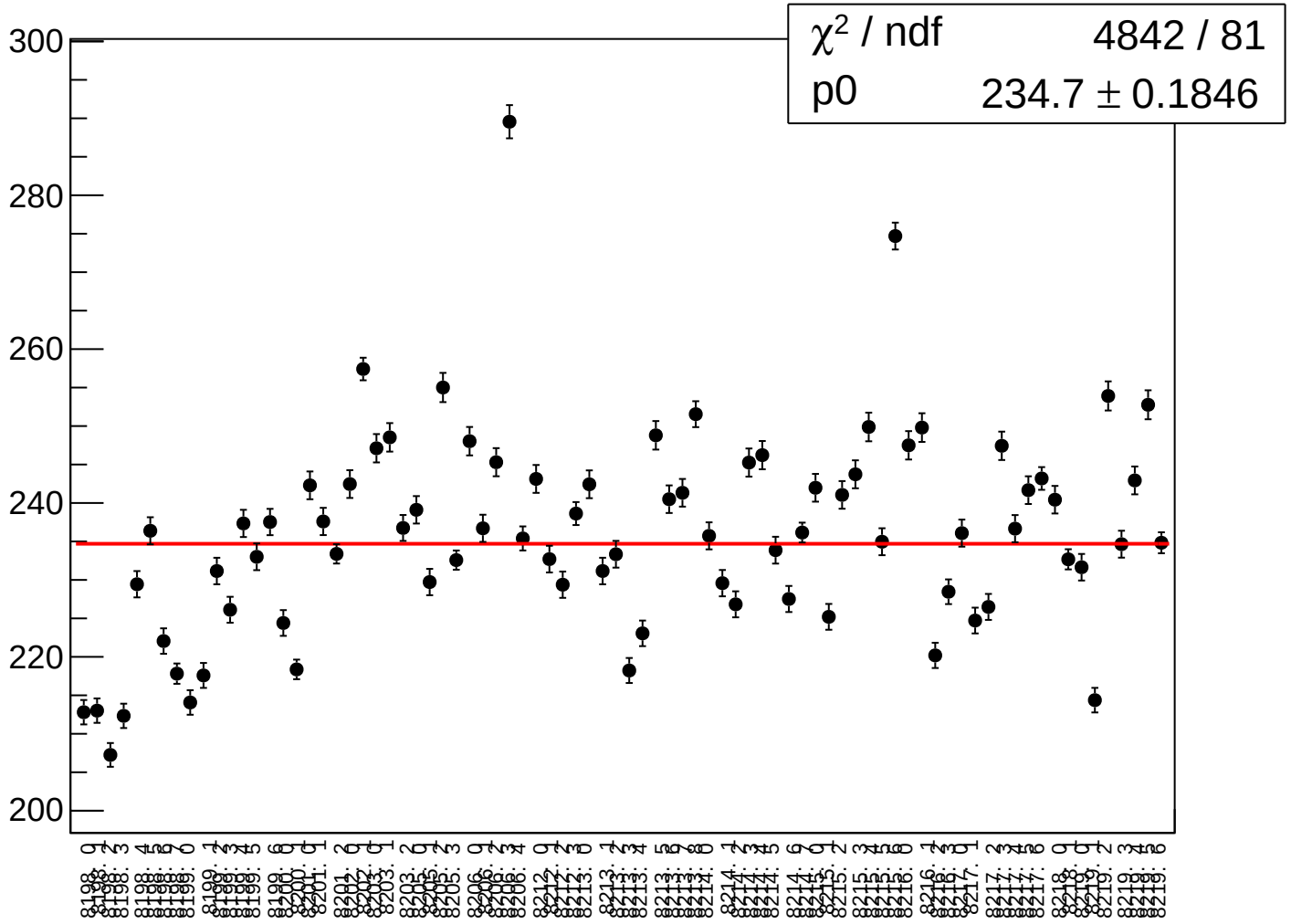

asym_bpm0l07WS_mean vs run
χ² / ndf 882.9 / 81
p0 2942 ± 265.9
pull
Entries 82
Mean −2007
Std Dev 0

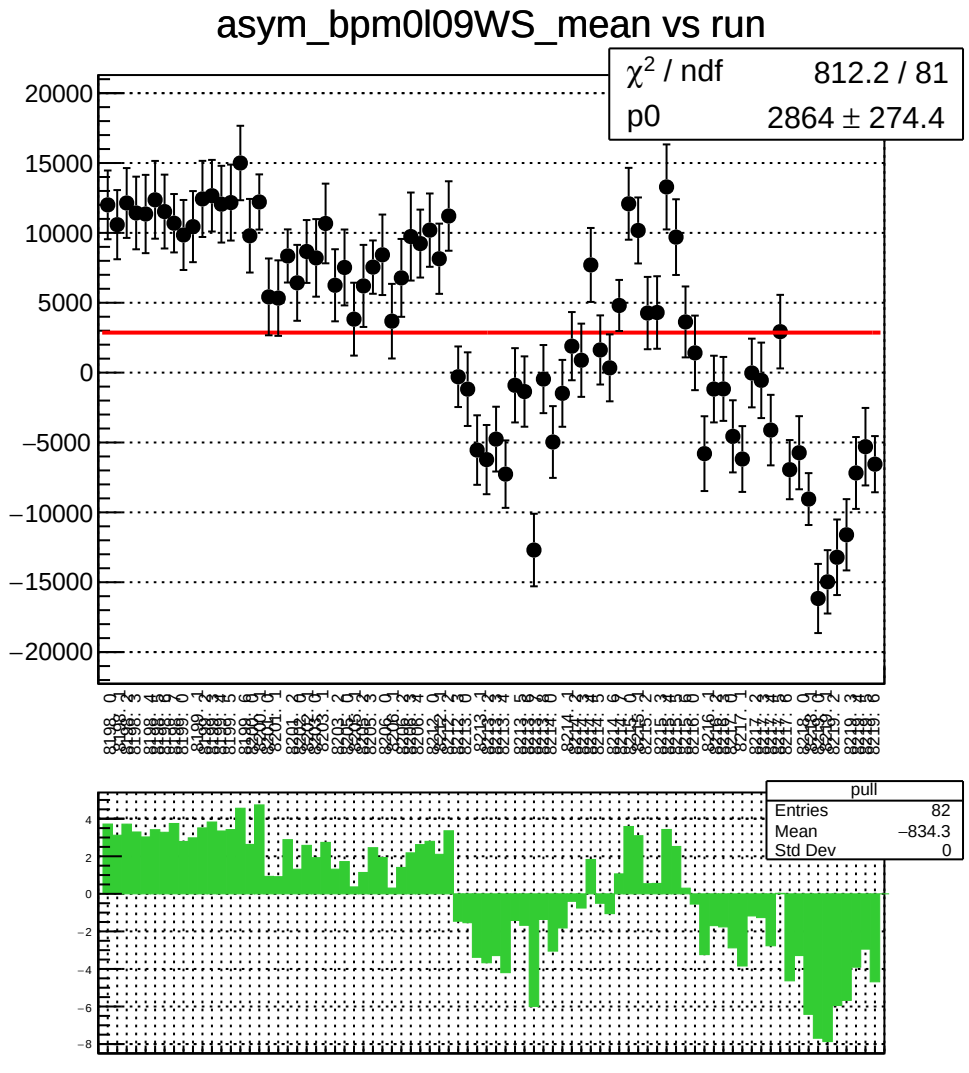

pull1D
Entries 82
Mean 0.1304
Std Dev 3.174

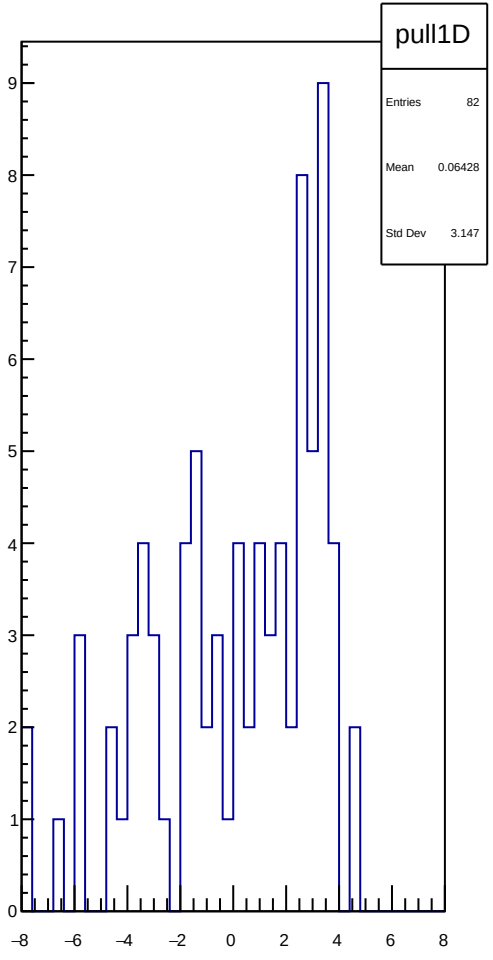

asym_bpm0l07WS_rms vs run
χ² / ndf 4781 / 81
p0 239 ± 0.188
300
280
260
240
220

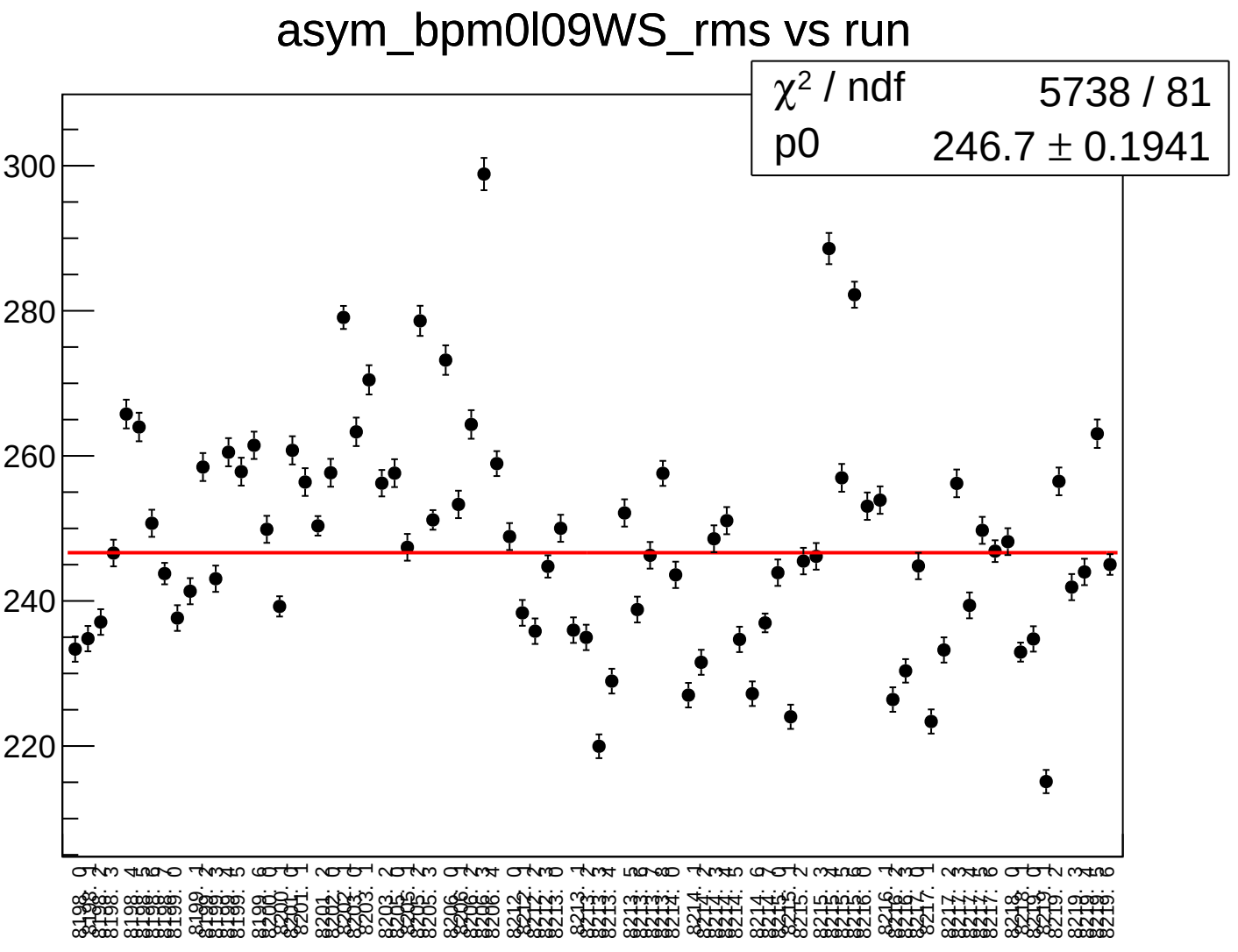

asym_bpm0l08WS_mean vs run
χ² / ndf 902.5 / 81
p0 3171 ± 261.1
pull
Entries 82
Mean 2094
Std Dev 0

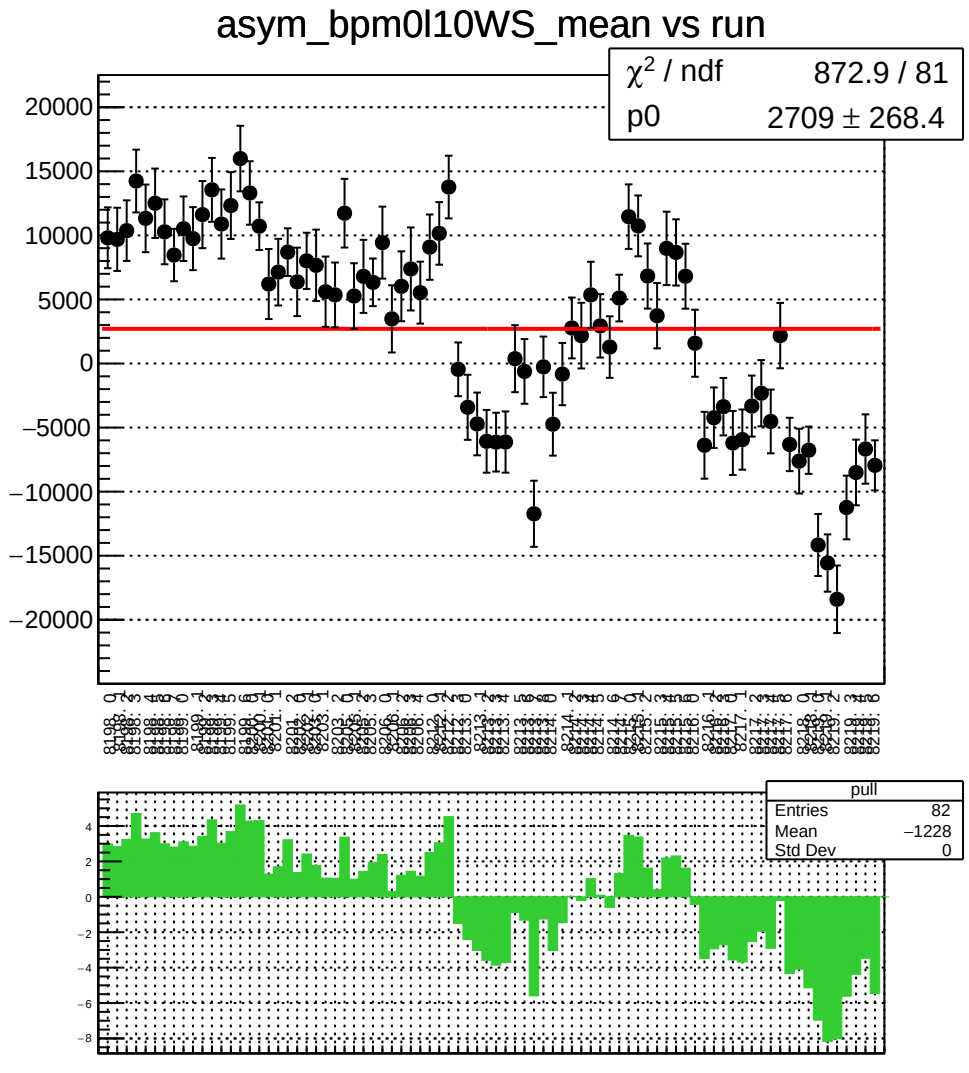

pull1D
Entries 82
Mean 0.06927
Std Dev 3.214

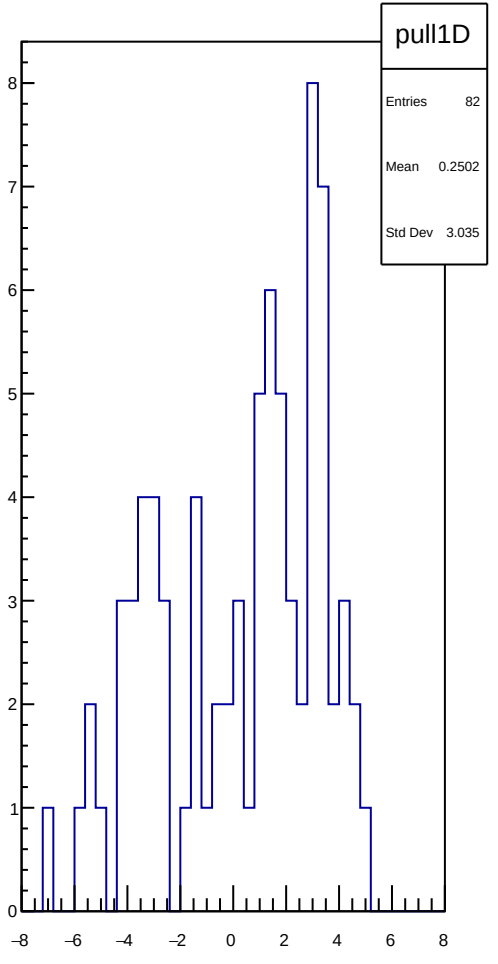

asym_bpm0l08WS_rms vs run
χ² / ndf 4842 / 81
p0 234.7 ± 0.1846
300
280
260
240
220
200

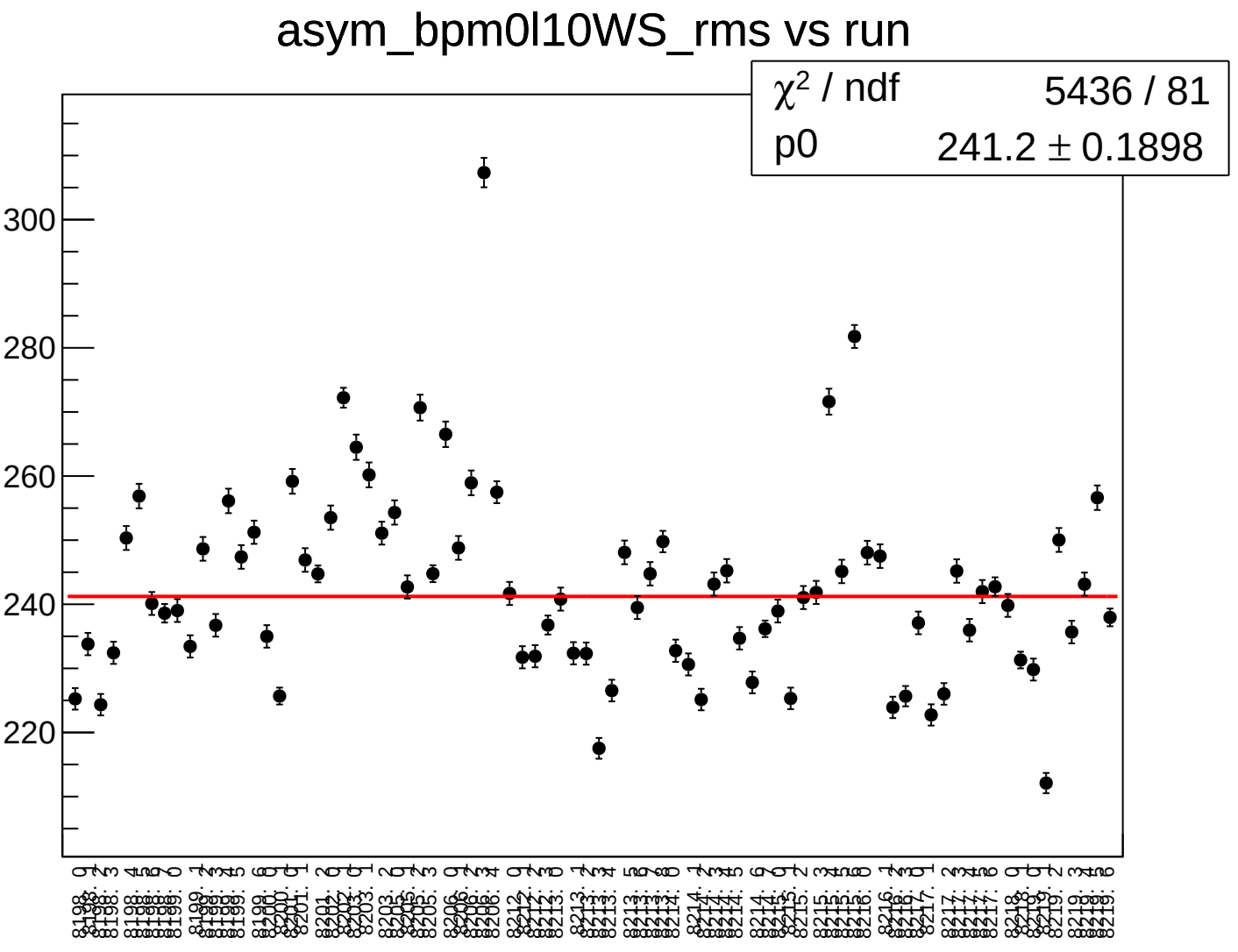

asym_bpm0l09WS_mean vs run
χ² / ndf 812.2 / 81
p0 2864 ± 274.4
pull
Entries 82
Mean −834.3
Std Dev 0

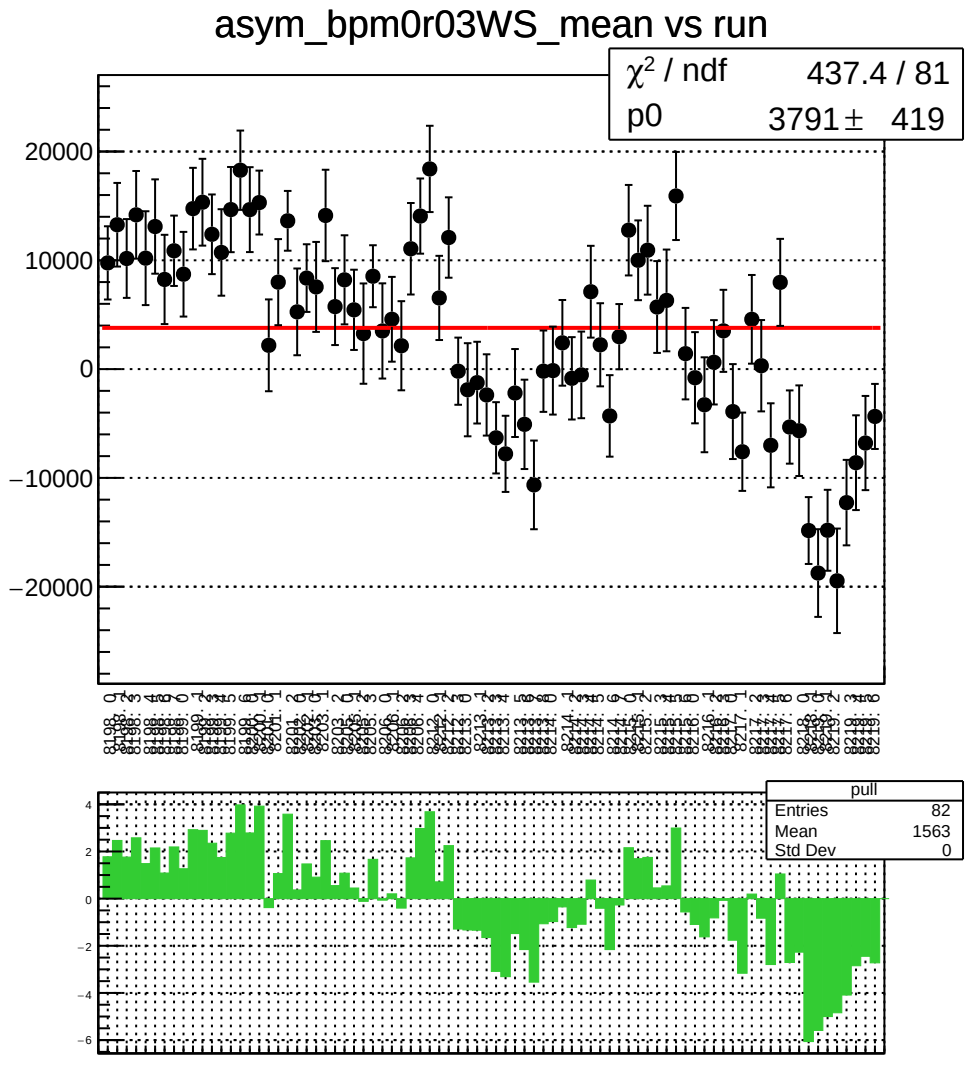

pull1D
Entries 82
Mean 0.06428
Std Dev 3.147

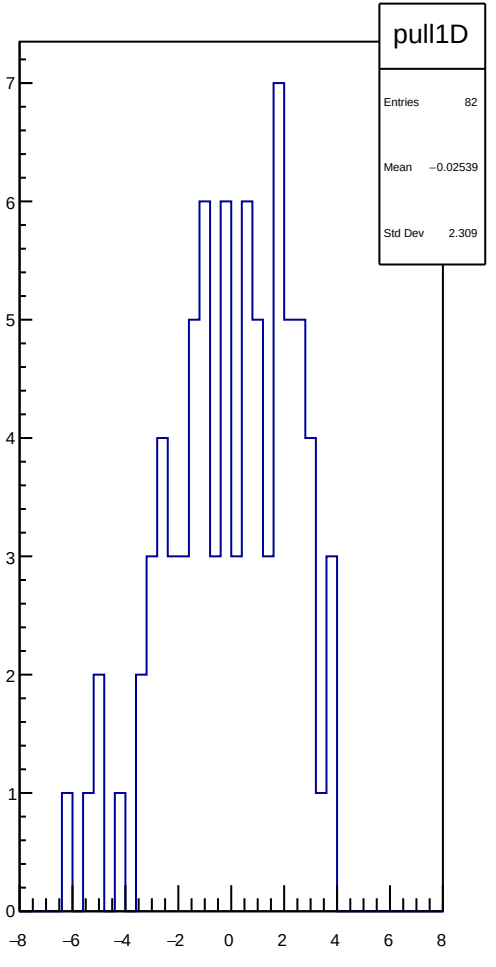

asym_bpm0l09WS_rms vs run
χ² / ndf 5738 / 81
p0 246.7 ± 0.1941
300
280
260
240
220

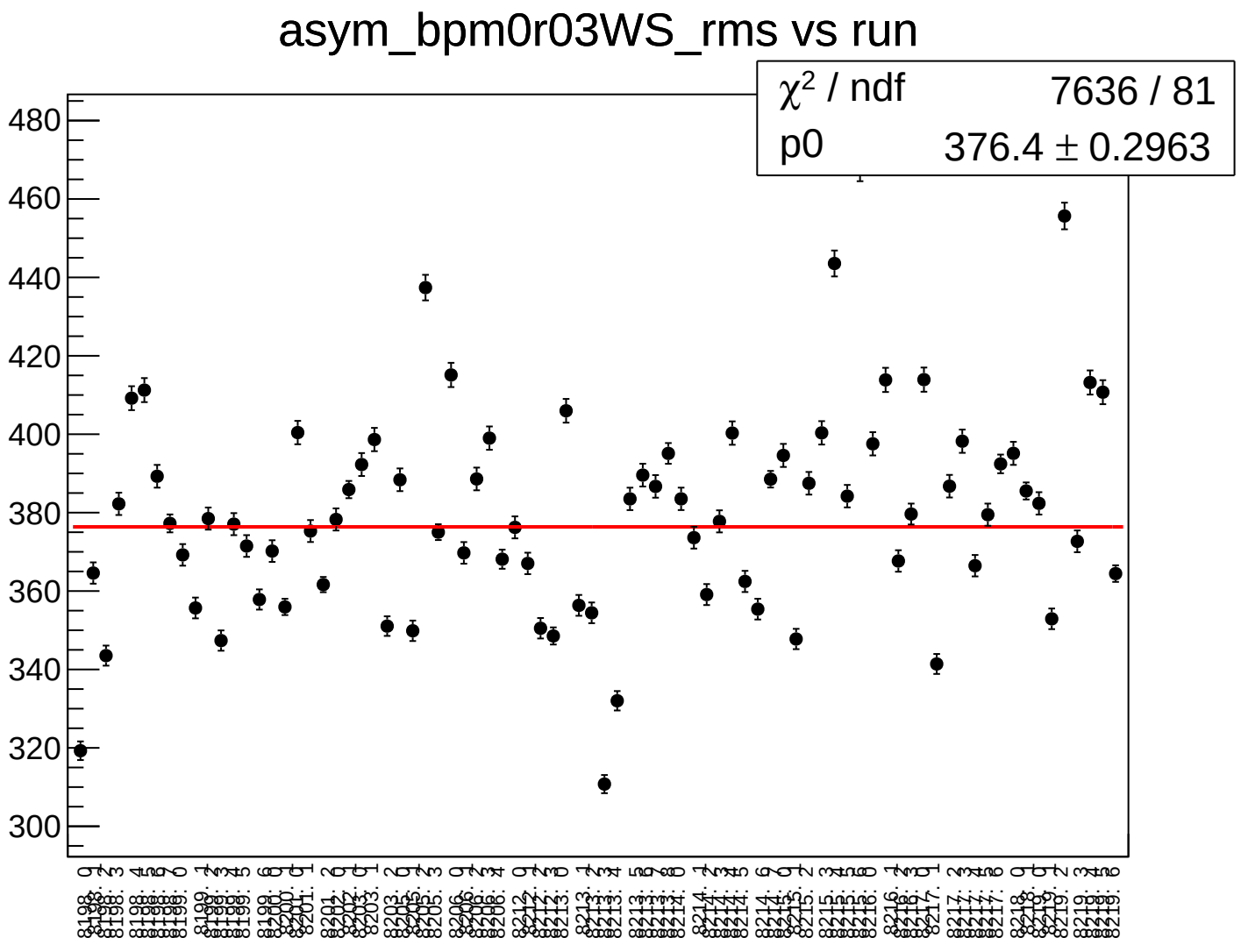

asym_bpm0l10WS_mean vs run
χ² / ndf 872.9 / 81
p0 2709 ± 268.4
pull
Entries 82
Mean −1228
Std Dev 0

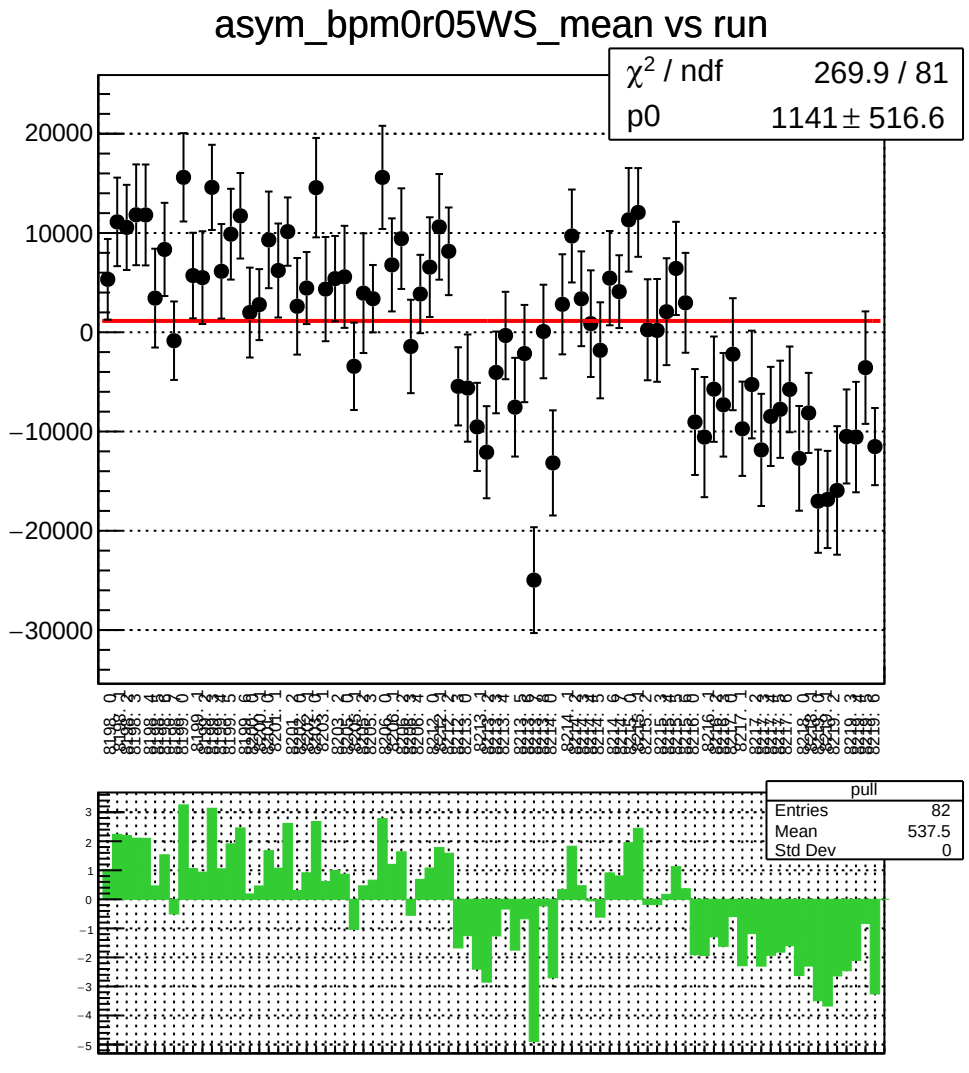

pull1D
Entries 82
Mean 0.2502
Std Dev 3.035

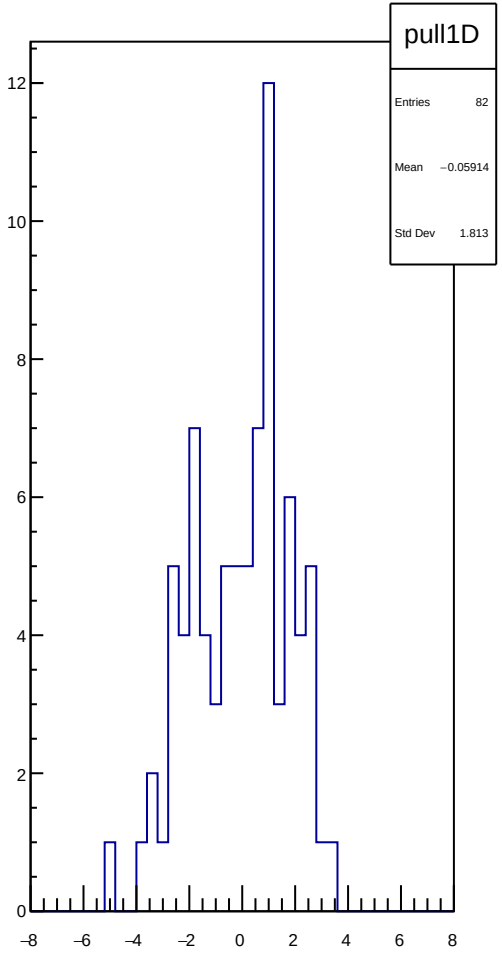

asym_bpm0l10WS_rms vs run
χ² / ndf 5436 / 81
p0 241.2 ± 0.1898
300
280
260
240
220

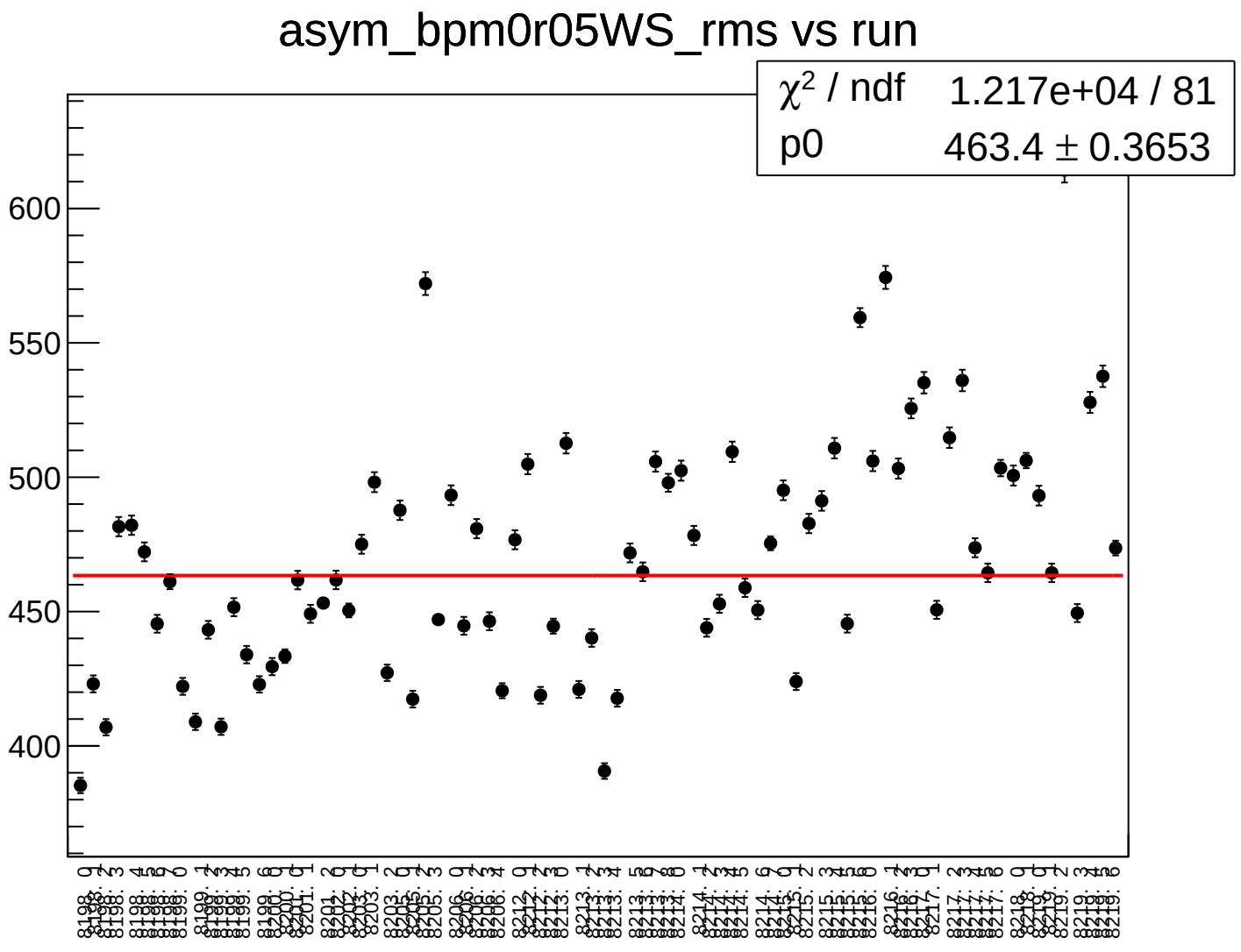

asym_bpm0r03WS_mean vs run
χ² / ndf 437.4 / 81
p0 3791 ± 419
20000
10000
0
−10000
−20000
pull
Entries 82
Mean 1563
Std Dev 0
4
2
0
−2
−4
−6

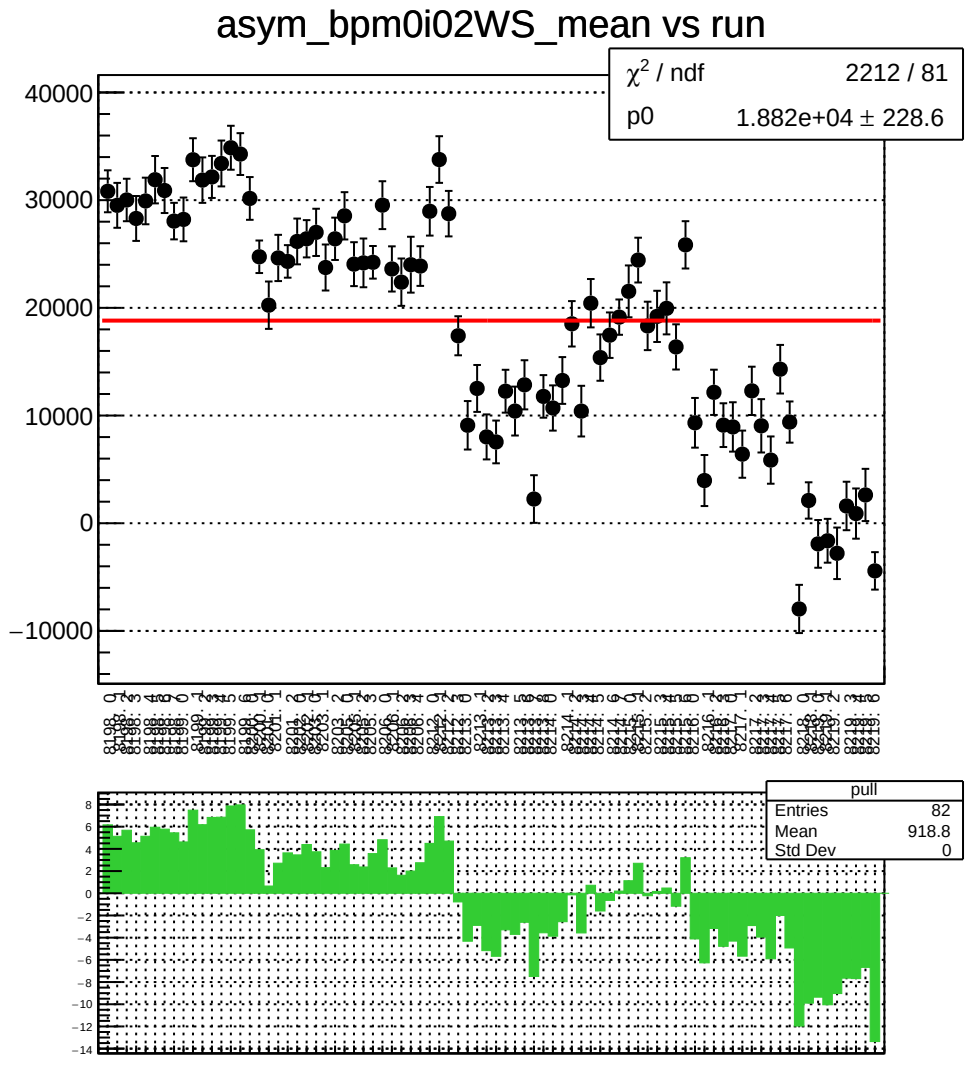

pull1D
Entries 82
Mean −0.02539
Std Dev 2.309
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

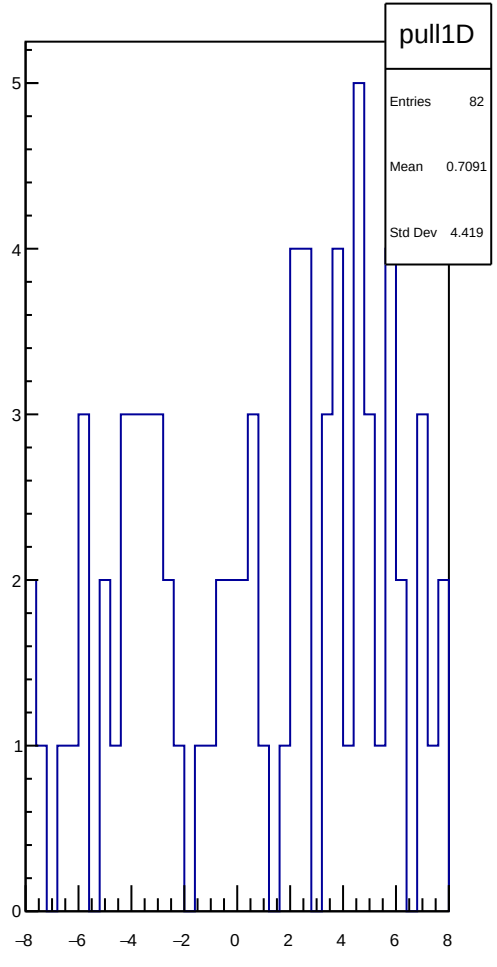

asym_bpm0r03WS_rms vs run
χ² / ndf 7636 / 81
p0 376.4 ± 0.2963
480
460
440
420
400
380
360
340
320
300

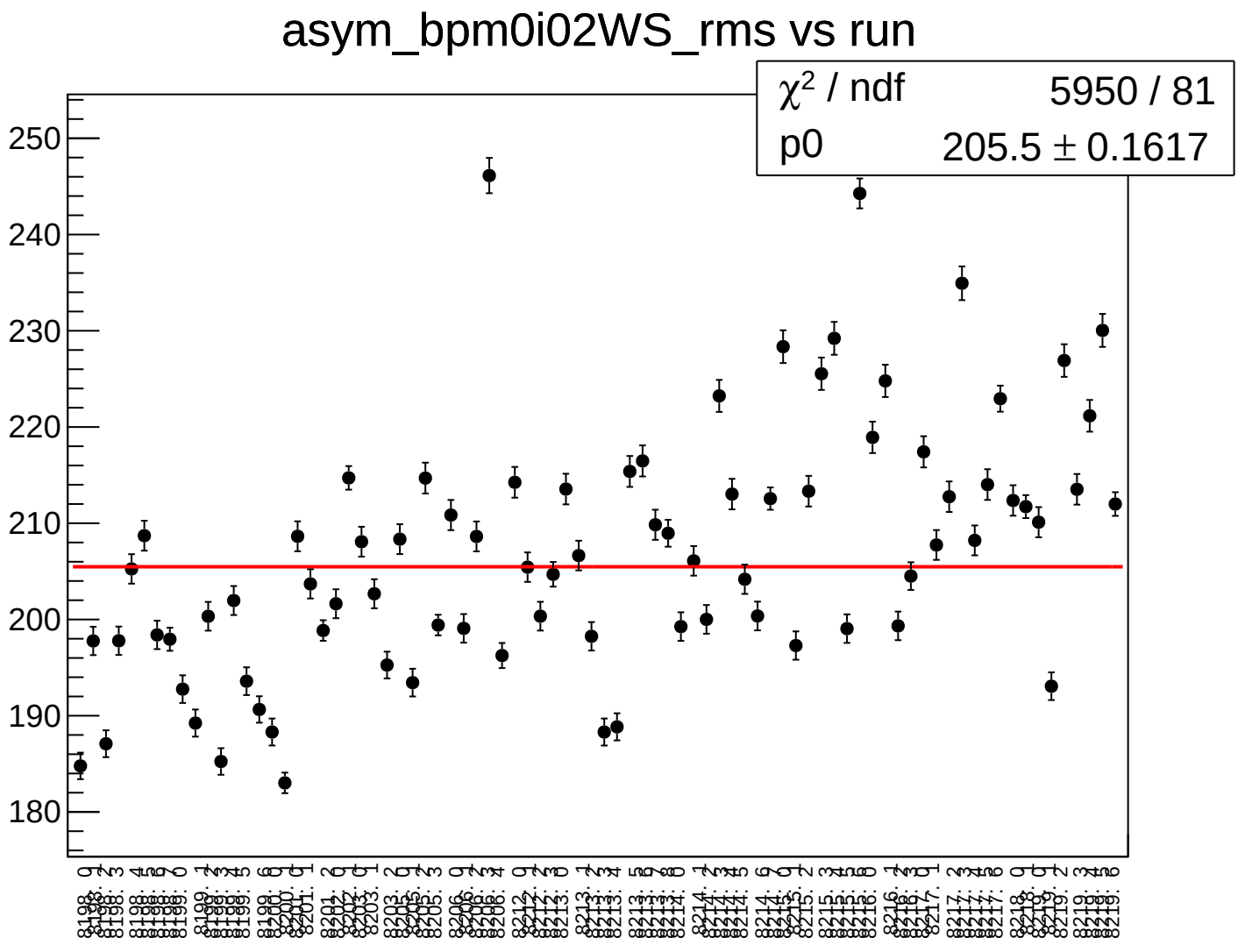

asym_bpm0r05WS_mean vs run
$\chi^2$ / ndf 269.9 / 81
p0 1141 ± 516.6
pull
Entries 82
Mean 537.5
Std Dev 0

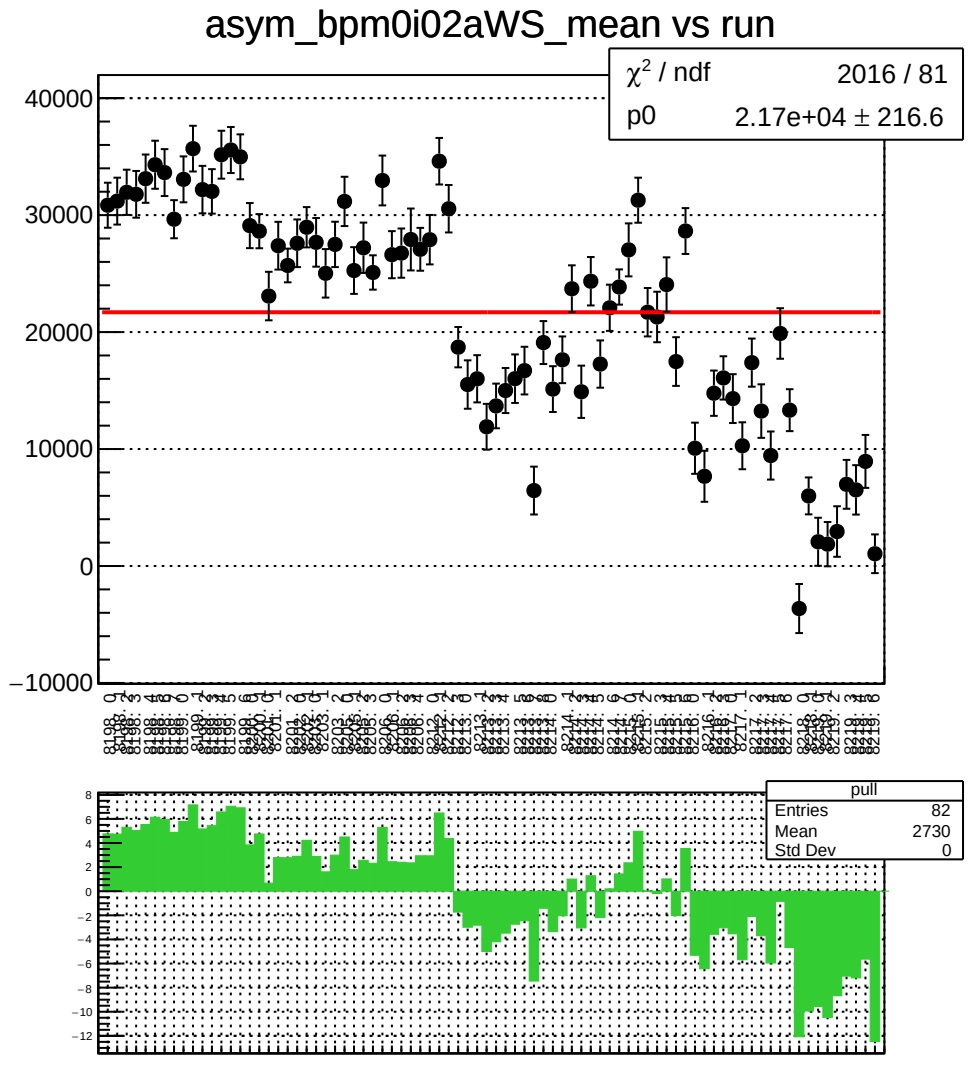

pull1D
Entries 82
Mean −0.05914
Std Dev 1.813

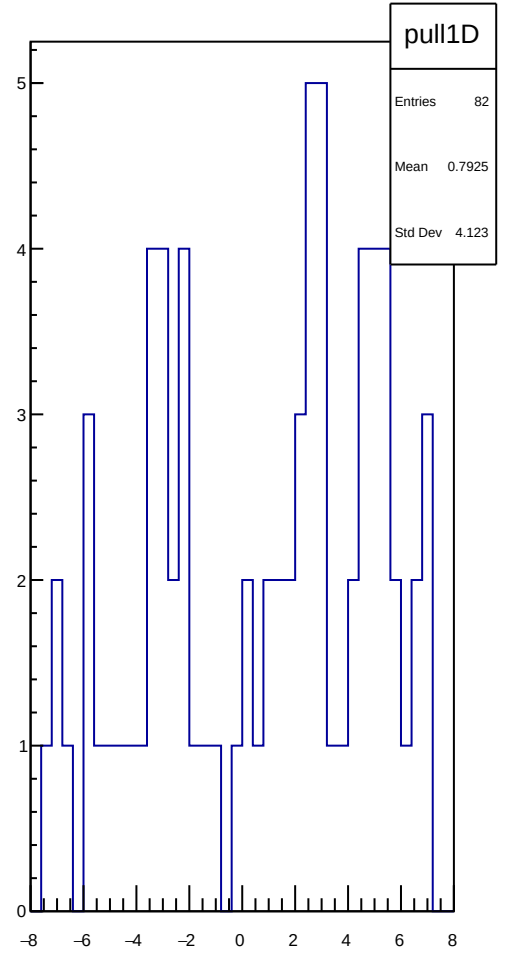

asym_bpm0r05WS_rms vs run
$\chi^2$ / ndf 1.217e+04 / 81
p0 463.4 ± 0.3653
600
550
500
450
400

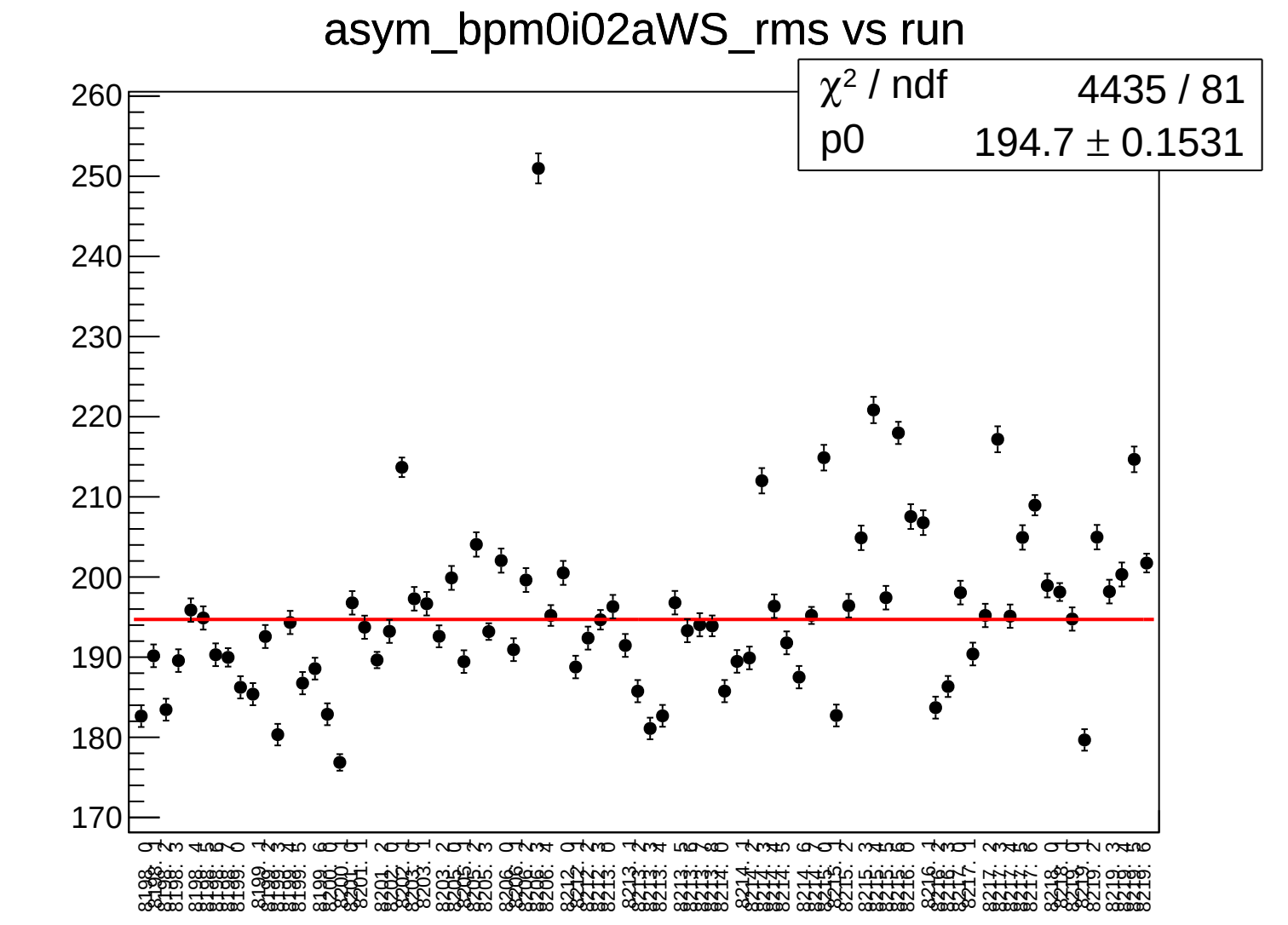

asym_bpm0i02WS_mean vs run
χ² / ndf 2212 / 81
p0 1.882e+04 ± 228.6
40000
30000
20000
10000
0
−10000
pull
Entries 82
Mean 918.8
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12
−14

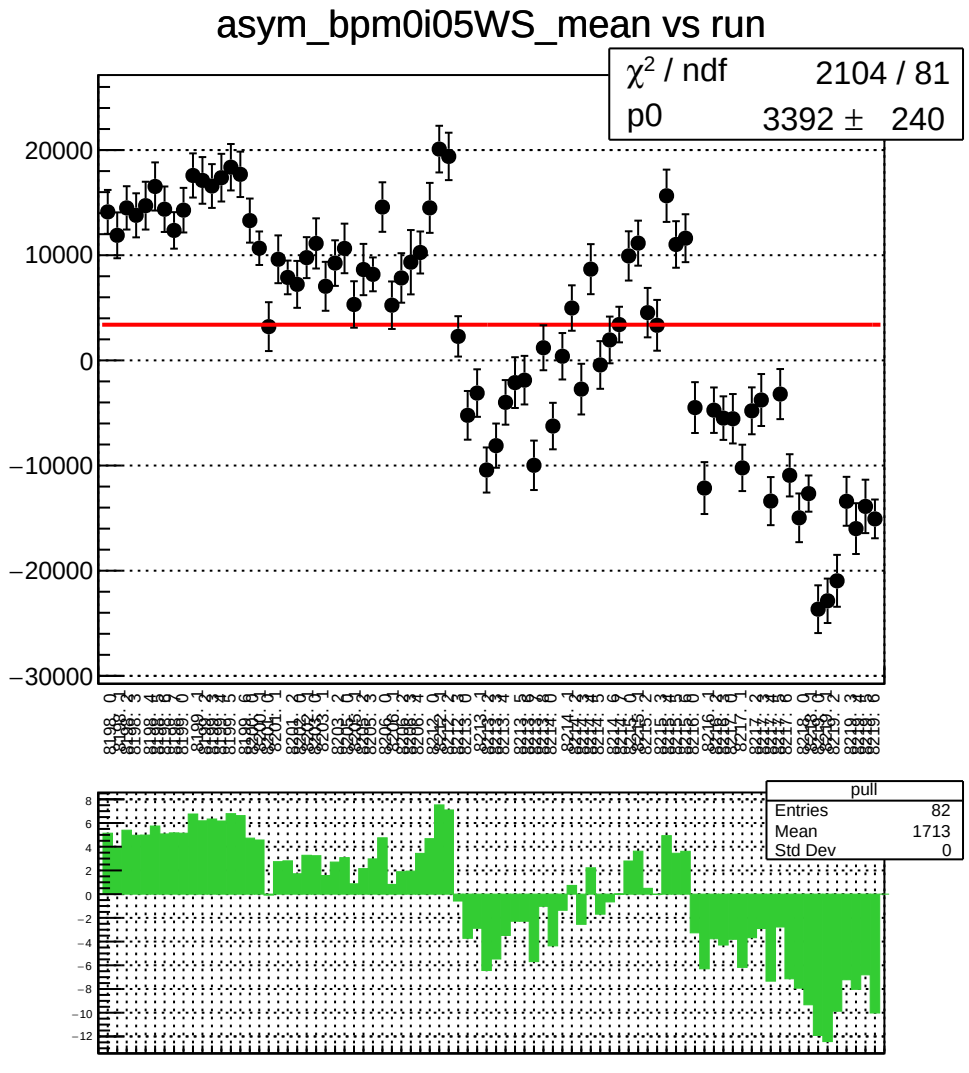

pull1D
Entries 82
Mean 0.7091
Std Dev 4.419
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

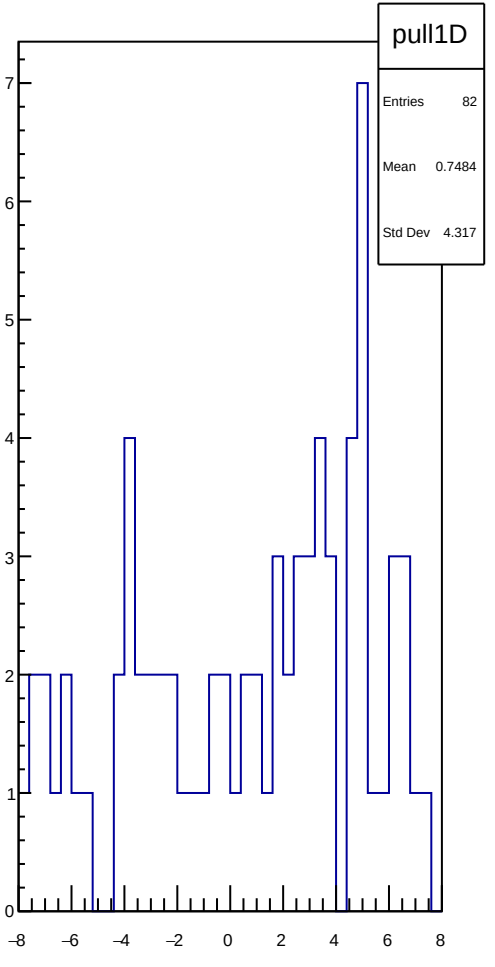

asym_bpm0i02WS_rms vs run
χ² / ndf 5950 / 81
p0 205.5 ± 0.1617
250
240
230
220
210
200
190
180

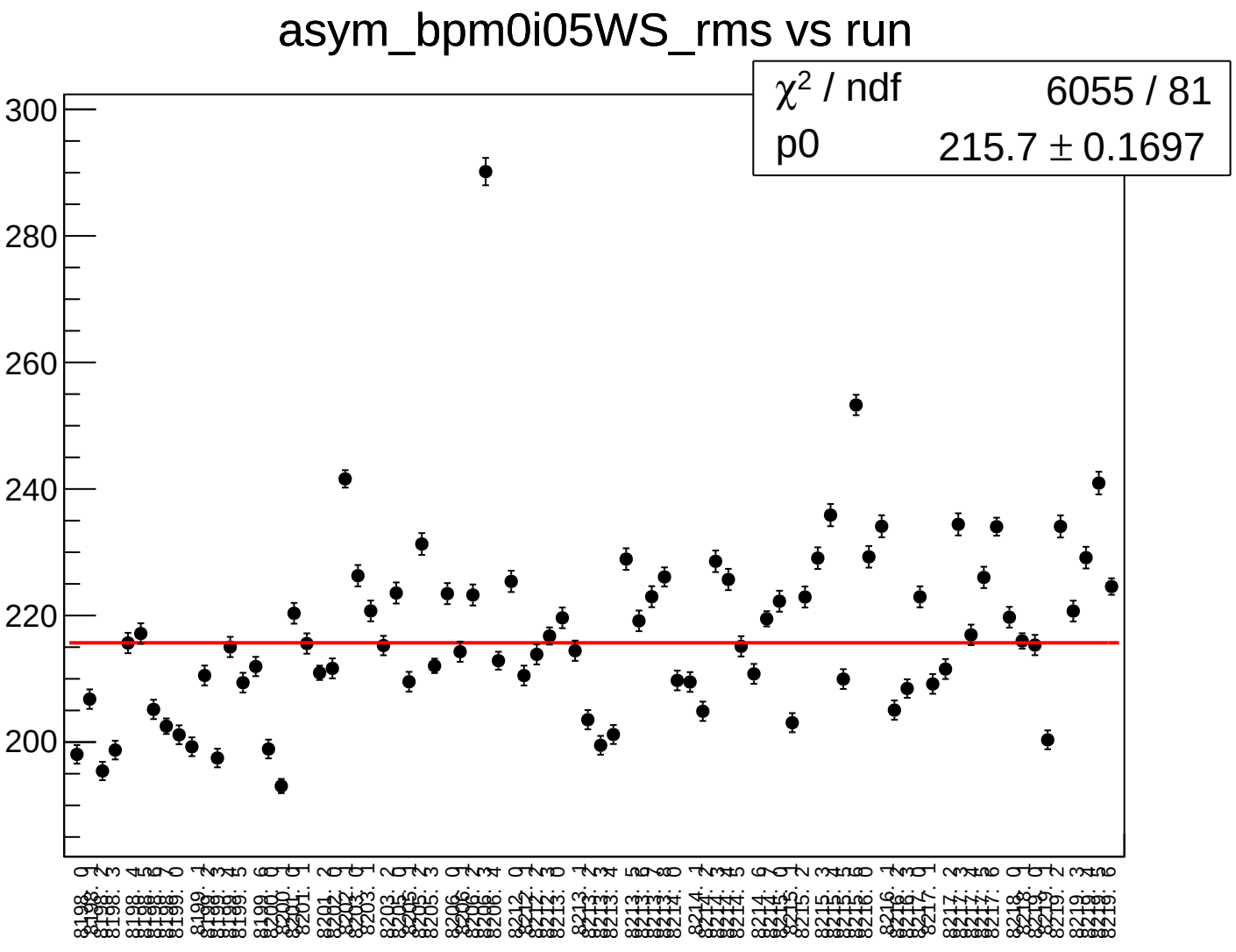

asym_bpm0i02aWS_mean vs run
χ² / ndf 2016 / 81
p0 2.17e+04 ± 216.6
pull
Entries 82
Mean 2730
Std Dev 0

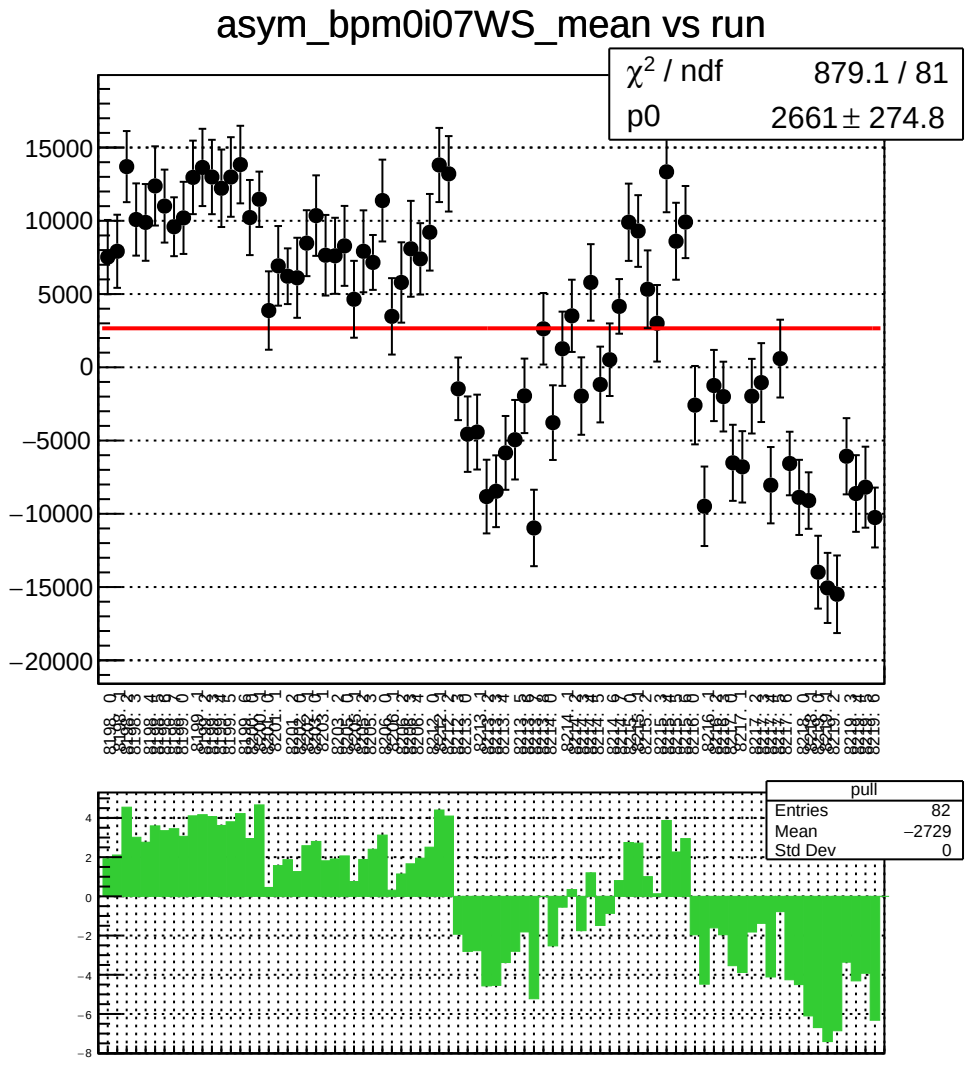

pull1D
Entries 82
Mean 0.7925
Std Dev 4.123

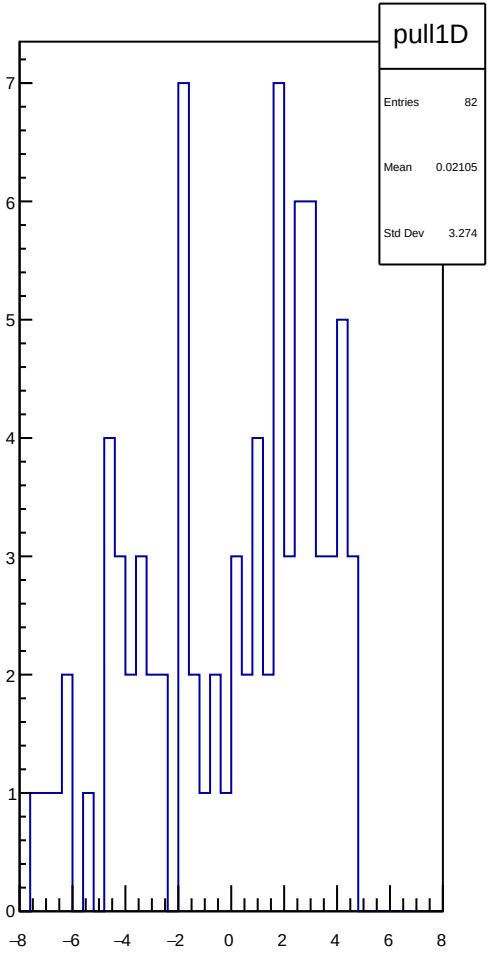

asym_bpm0i02aWS_rms vs run
χ² / ndf 4435 / 81
p0 194.7 ± 0.1531
260
250
240
230
220
210
200
190
180
170

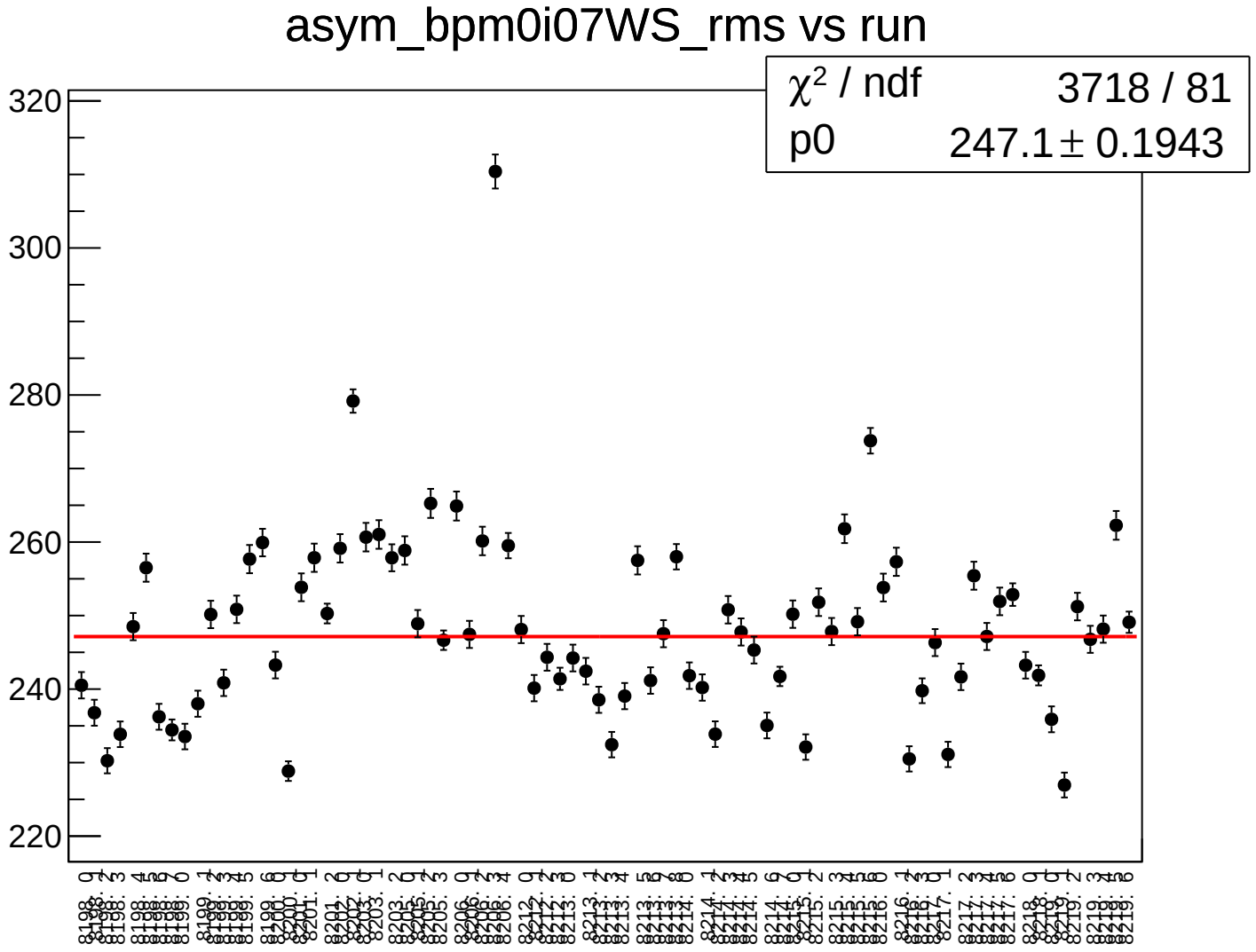

asym_bpm0i05WS_mean vs run
χ² / ndf 2104 / 81
p0 3392 ± 240
pull
Entries 82
Mean 1713
Std Dev 0

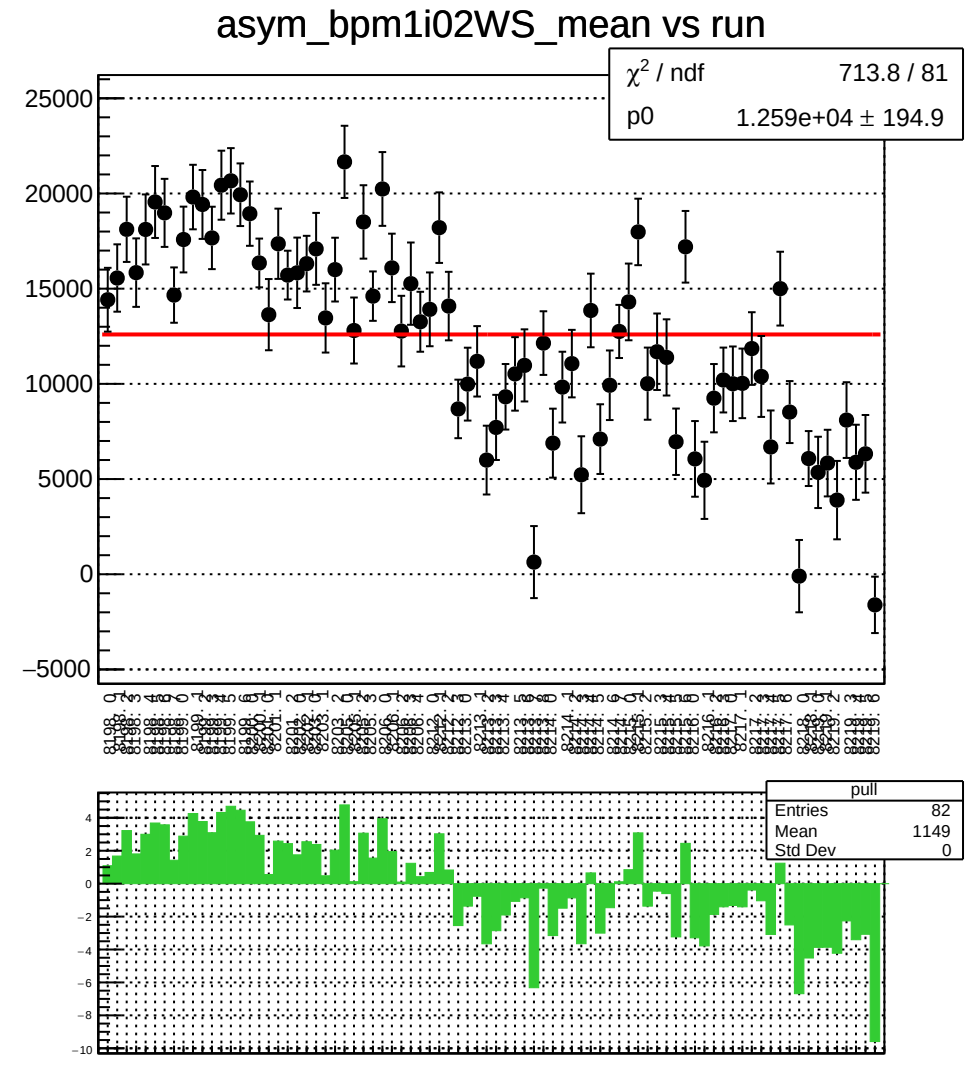

pull1D
Entries 82
Mean 0.7484
Std Dev 4.317

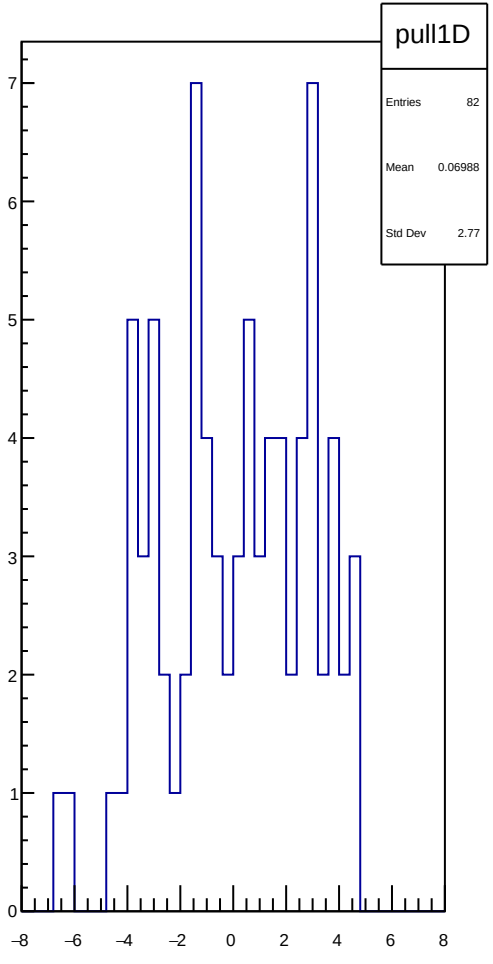

asym_bpm0i05WS_rms vs run
χ² / ndf 6055 / 81
p0 215.7 ± 0.1697
300
280
260
240
220
200

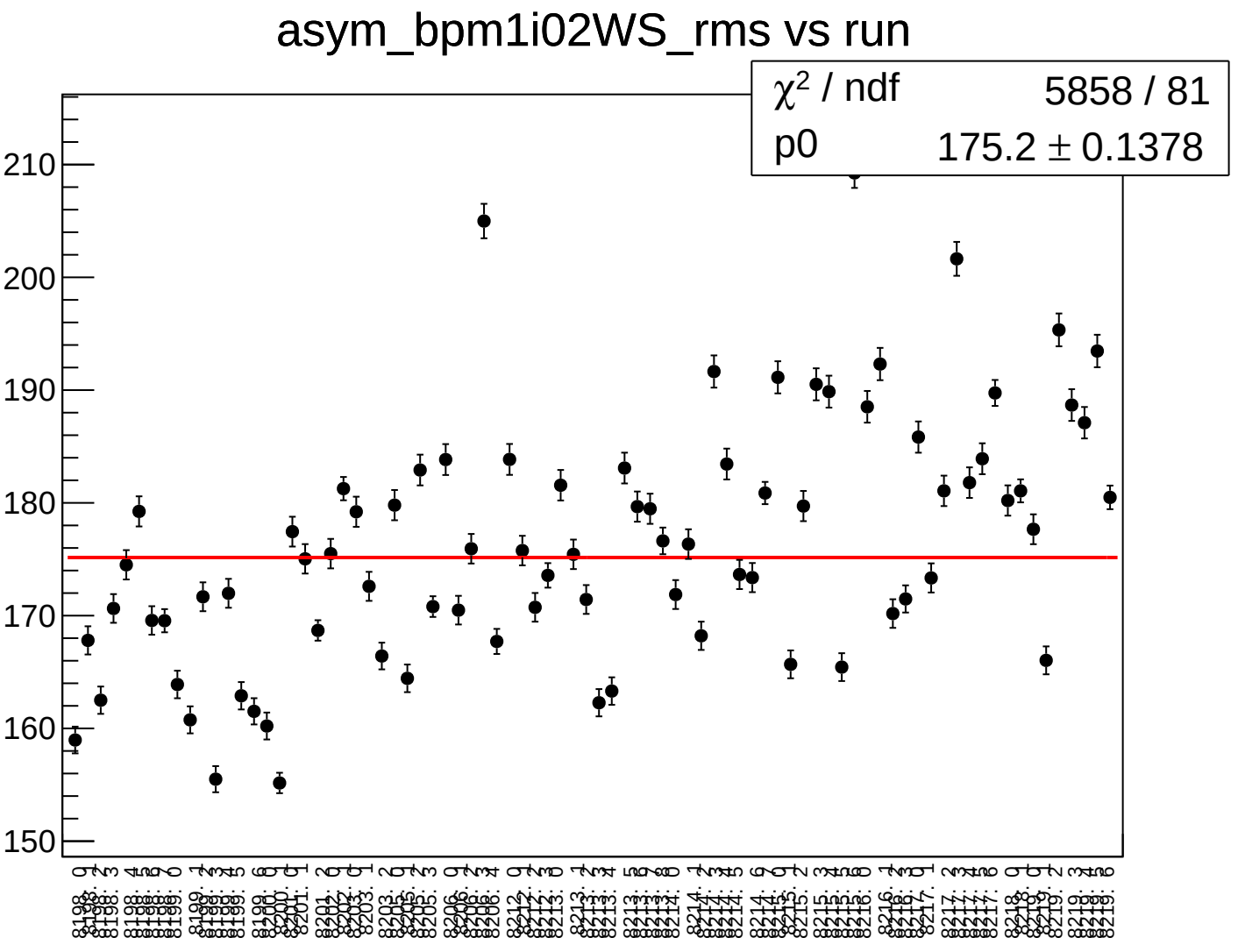

asym_bpm0i07WS_mean vs run
χ² / ndf 879.1 / 81
p0 2661 ± 274.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean −2729
Std Dev 0
4
2
0
−2
−4
−6
−8

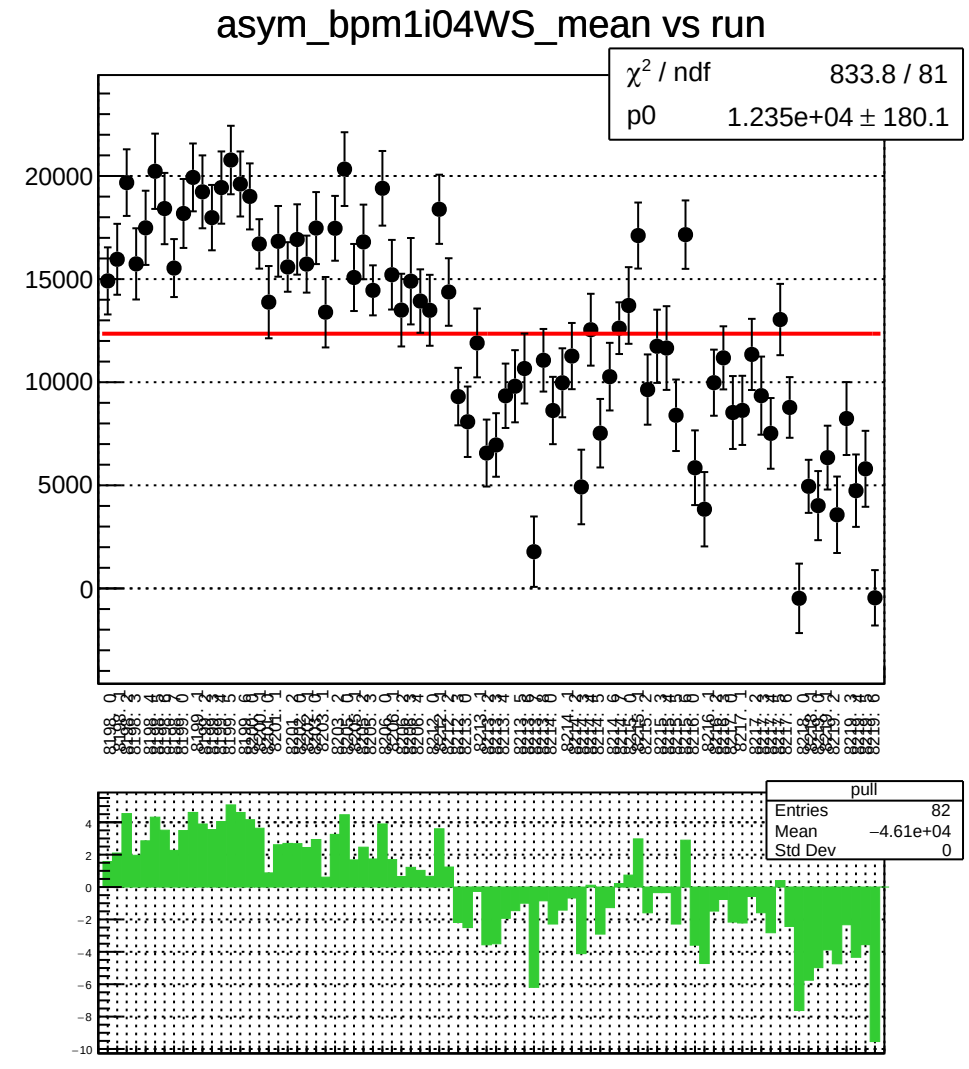

pull1D
Entries 82
Mean 0.02105
Std Dev 3.274
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

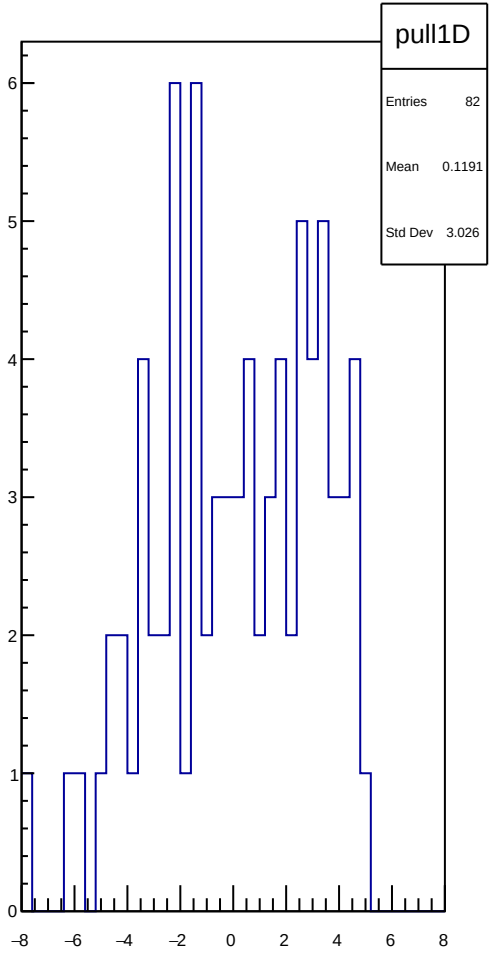

asym_bpm0i07WS_rms vs run
χ² / ndf 3718 / 81
p0 247.1 ± 0.1943
320
300
280
260
240
220

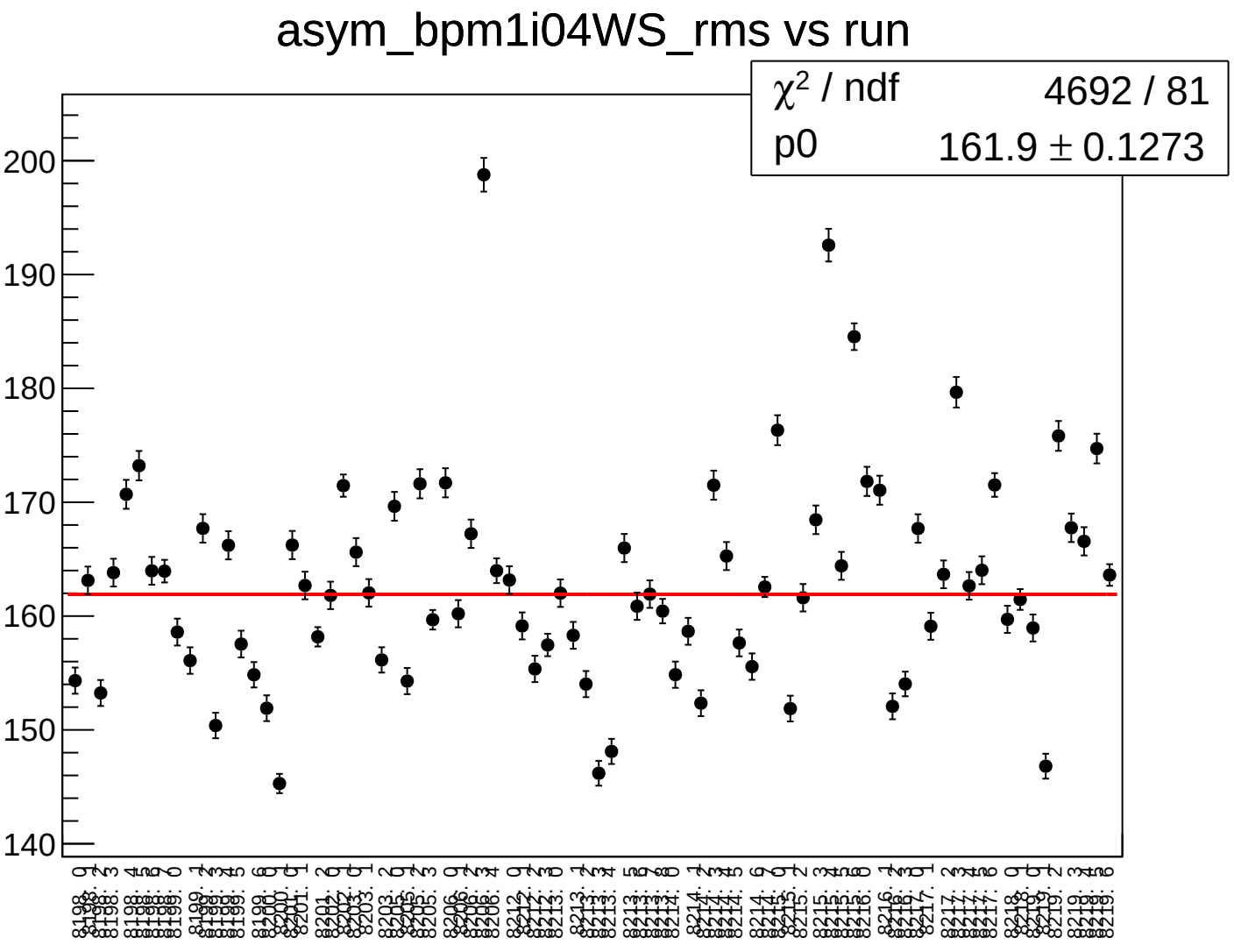

asym_bpm1i02WS_mean vs run
χ² / ndf 713.8 / 81
p0 1.259e+04 ± 194.9
pull
Entries 82
Mean 1149
Std Dev 0

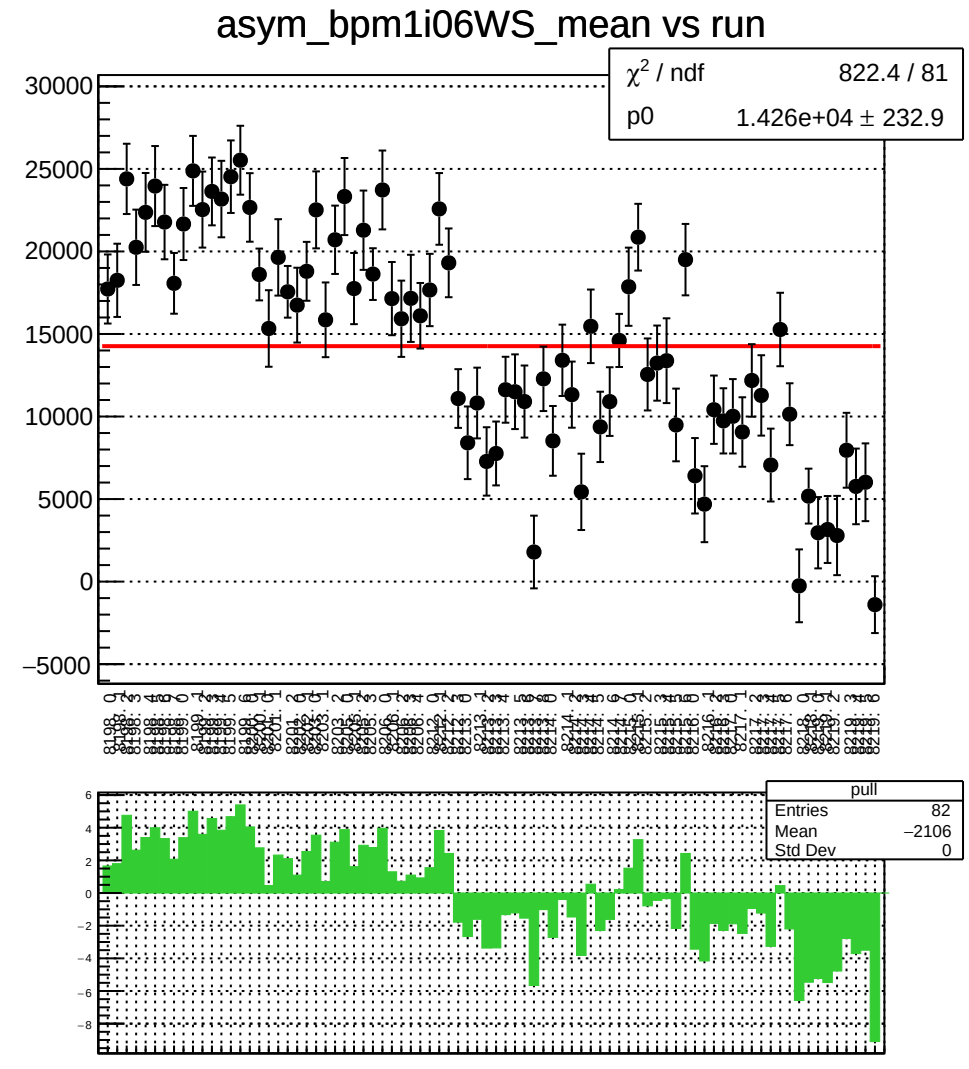

pull1D
Entries 82
Mean 0.06988
Std Dev 2.77

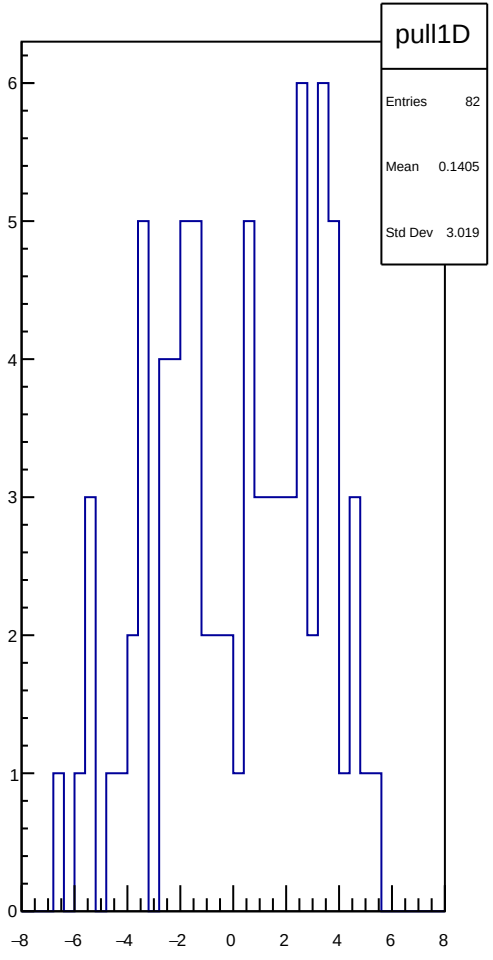

asym_bpm1i02WS_rms vs run
χ² / ndf 5858 / 81
p0 175.2 ± 0.1378
210
200
190
180
170
160
150

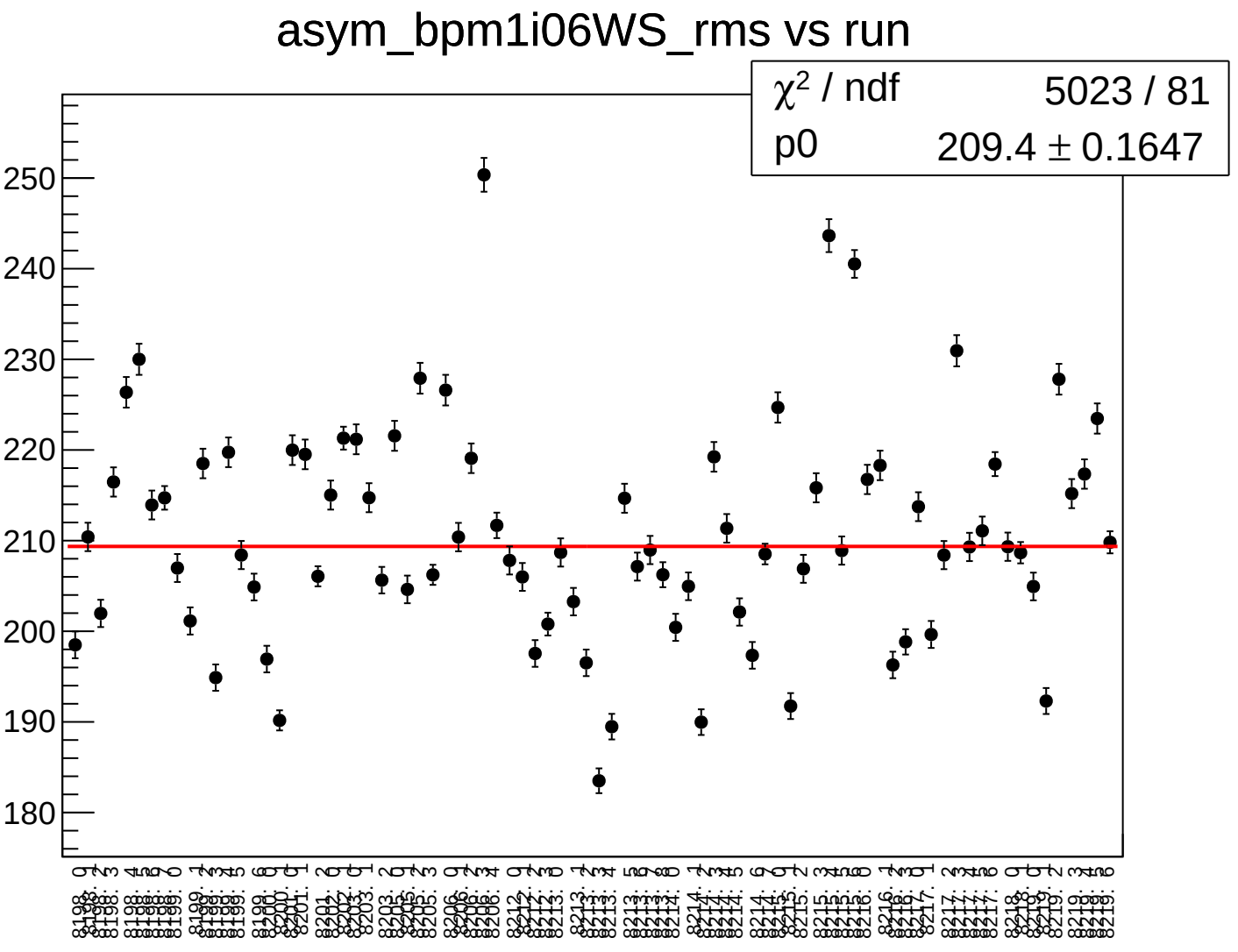

asym_bpm1i04WS_mean vs run
χ² / ndf 833.8 / 81
p0 1.235e+04 ± 180.1
20000
15000
10000
5000
0
pull
Entries 82
Mean −4.61e+04
Std Dev 0
4
2
0
−2
−4
−6
−8
−10

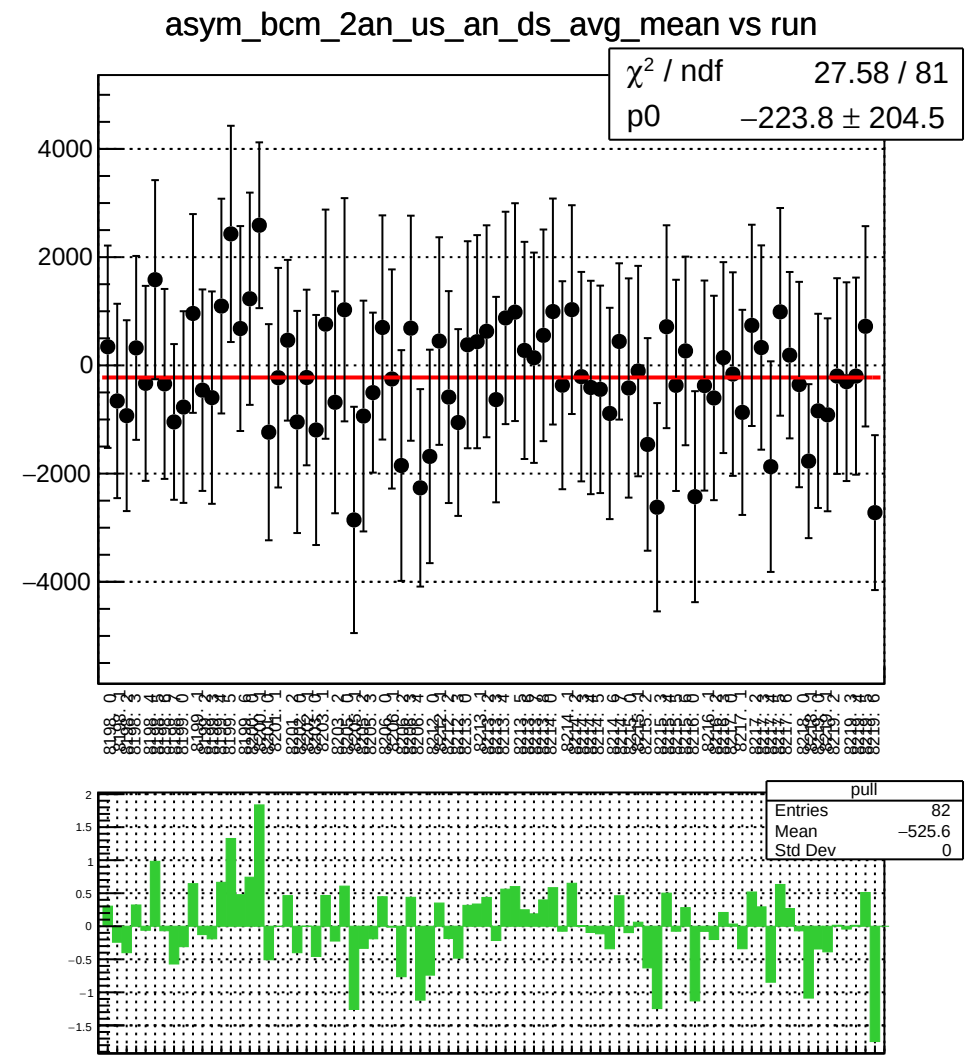

pull1D
Entries 82
Mean 0.1191
Std Dev 3.026
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

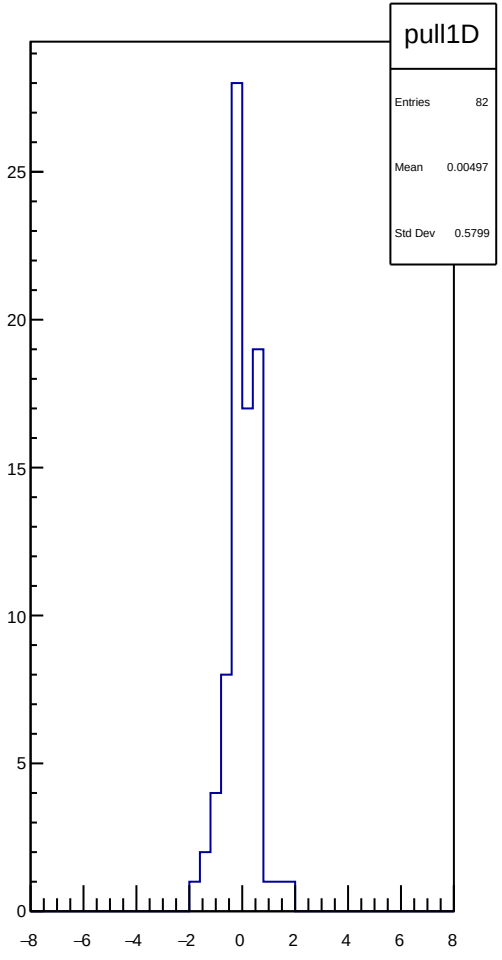

asym_bpm1i04WS_rms vs run
χ² / ndf 4692 / 81
p0 161.9 ± 0.1273
200
190
180
170
160
150
140

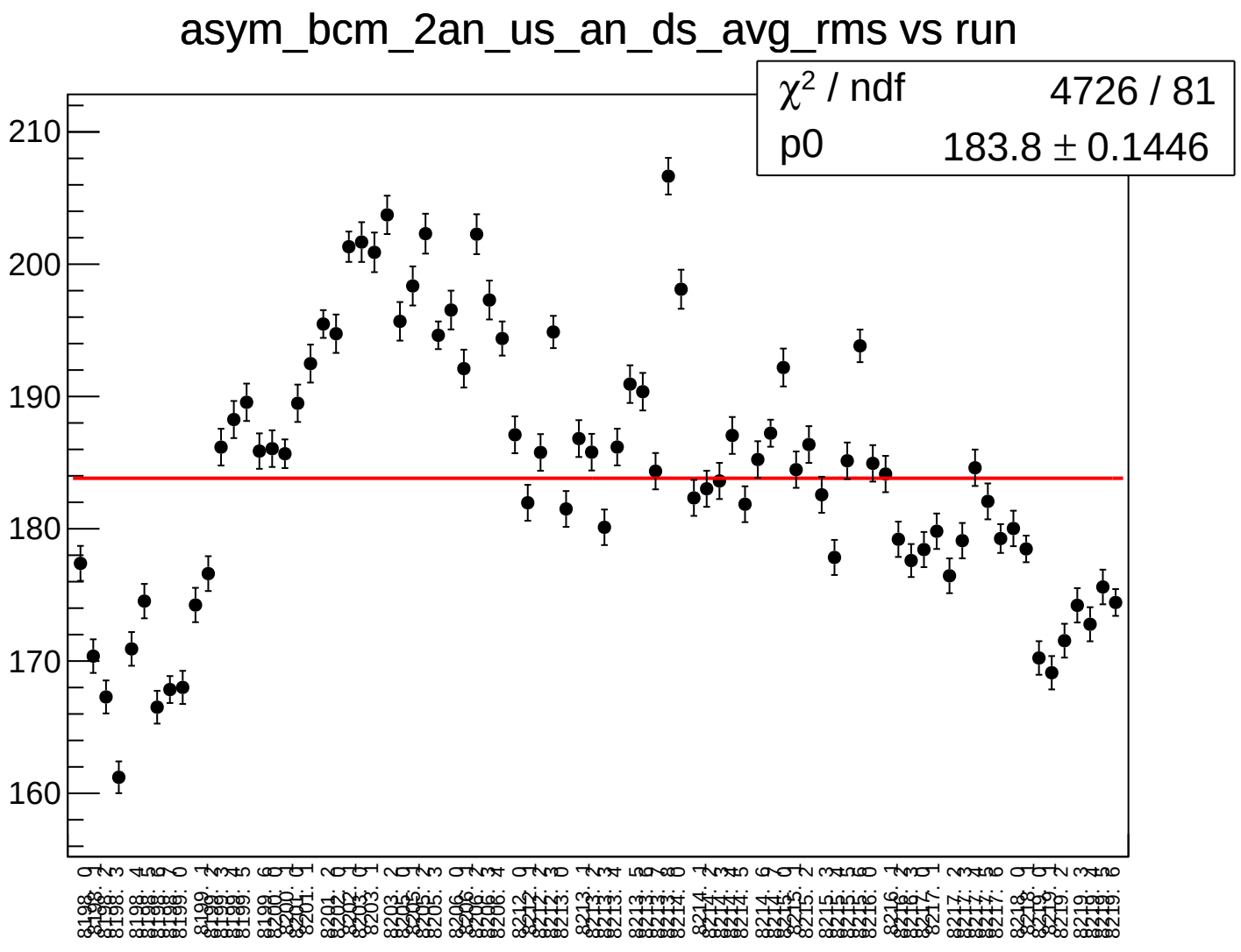

asym_bpm1i06WS_mean vs run
χ² / ndf 822.4 / 81
p0 1.426e+04 ± 232.9
pull
Entries 82
Mean −2106
Std Dev 0

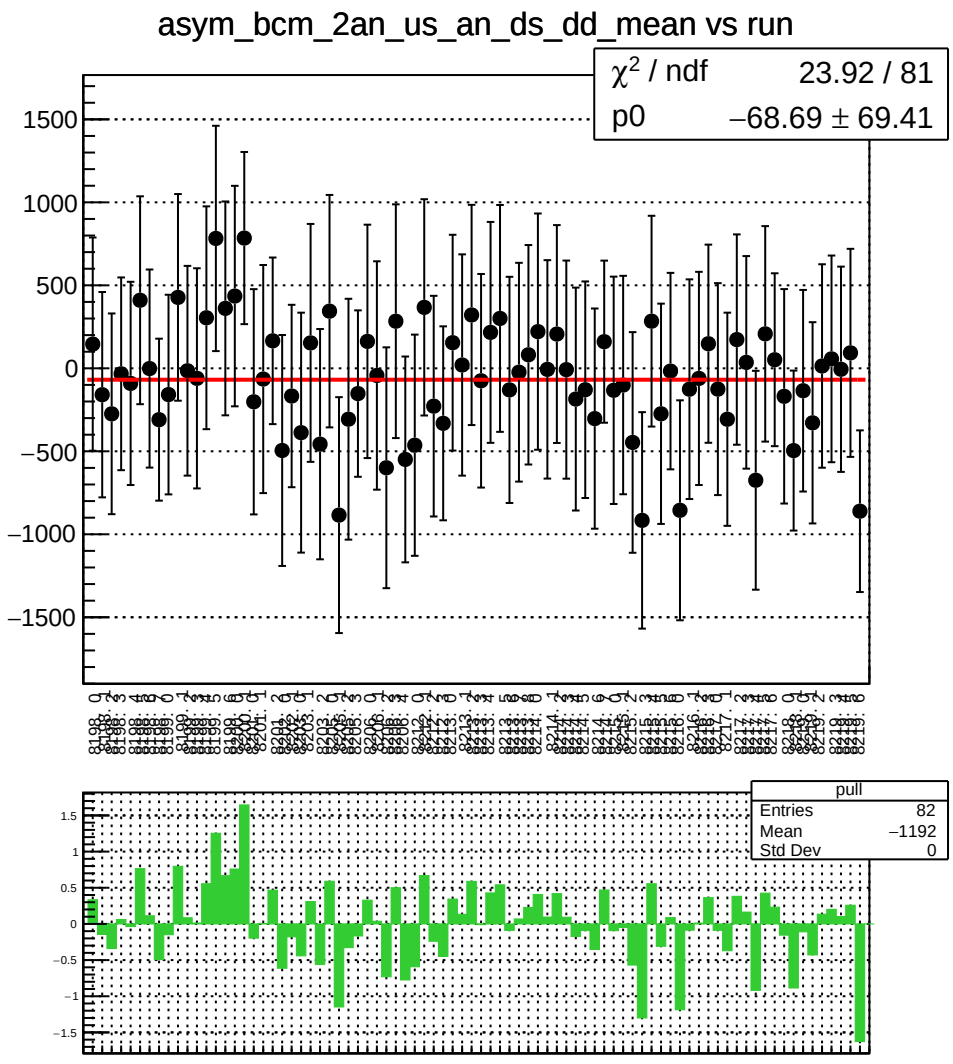

pull1D
Entries 82
Mean 0.1405
Std Dev 3.019

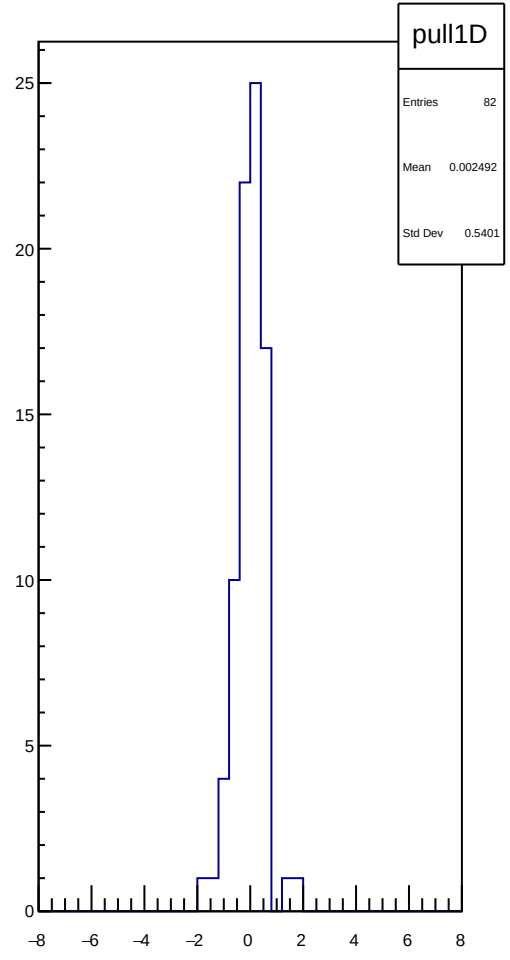

asym_bpm1i06WS_rms vs run
$\chi^2$ / ndf 5023 / 81
p0 209.4 ± 0.1647
250
240
230
220
210
200
190
180

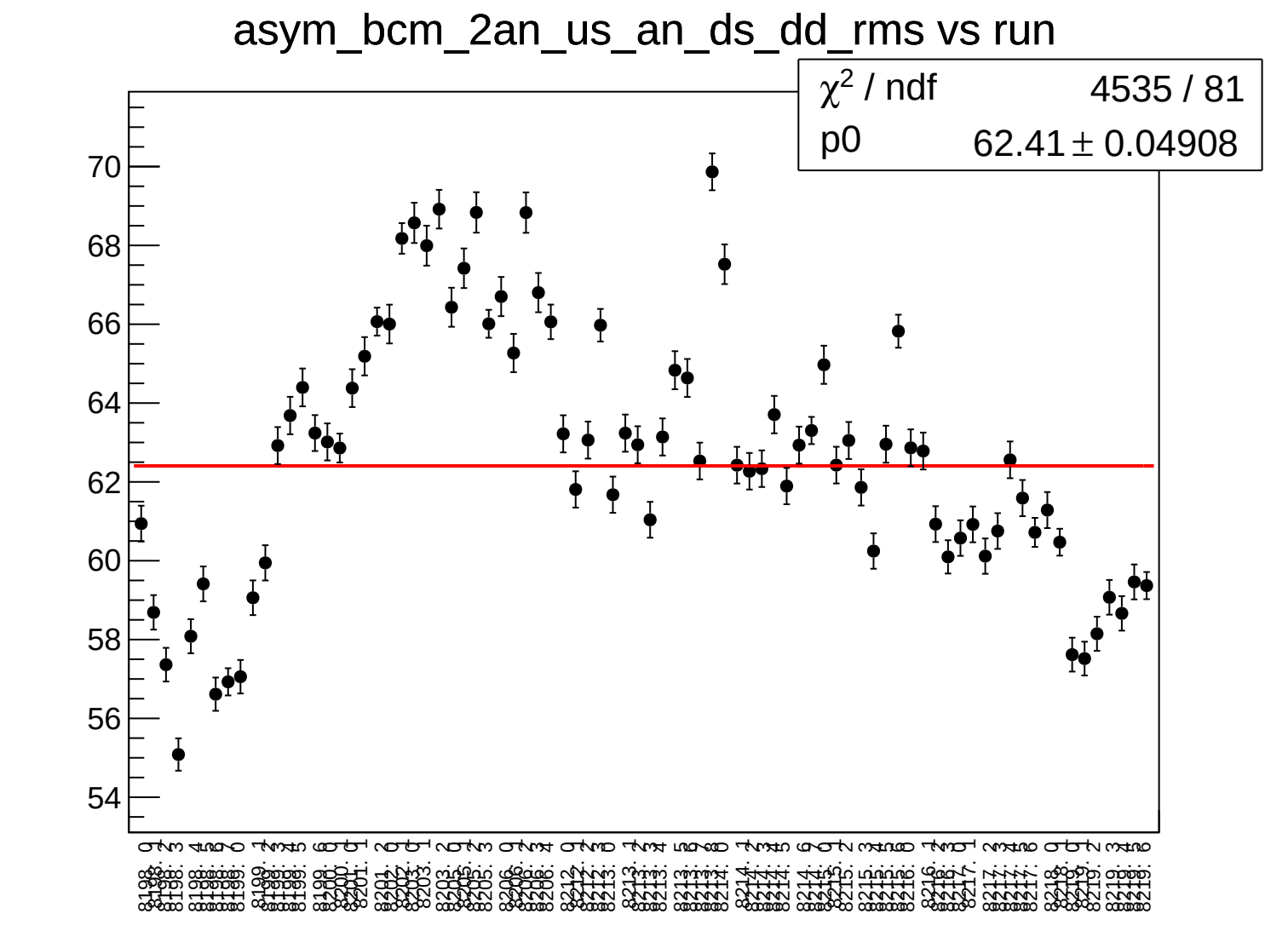

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 27.58 / 81
p0 −223.8 ± 204.5
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −525.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

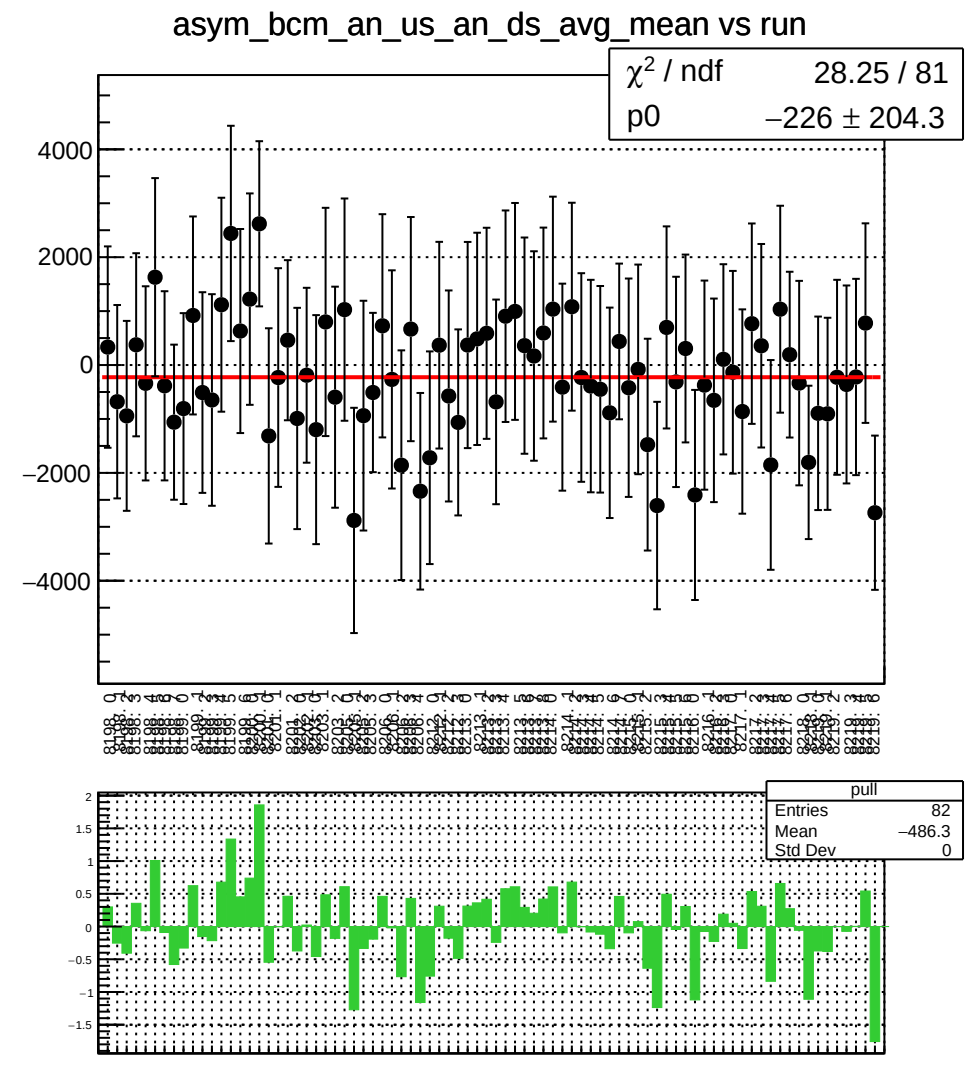

pull1D
Entries 82
Mean 0.00497
Std Dev 0.5799
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

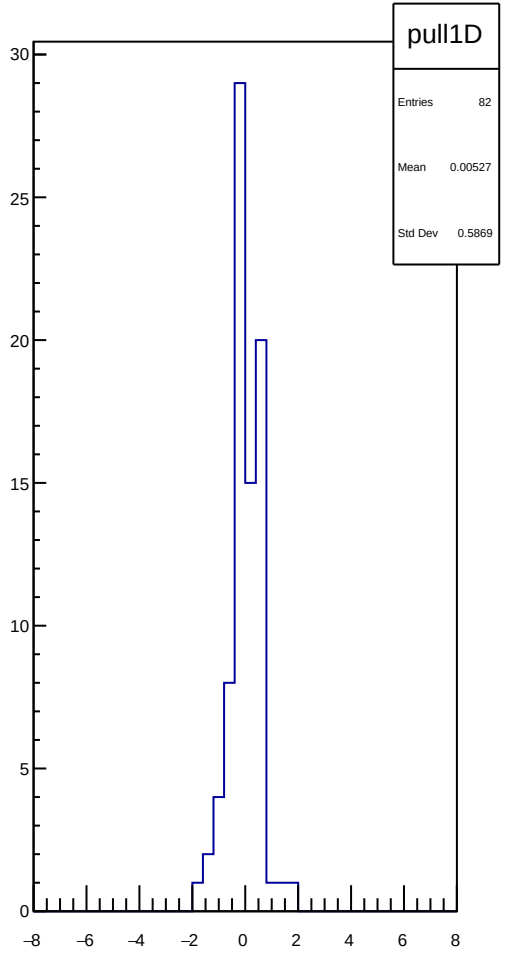

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 4726 / 81
p0 183.8 ± 0.1446
210
200
190
180
170
160

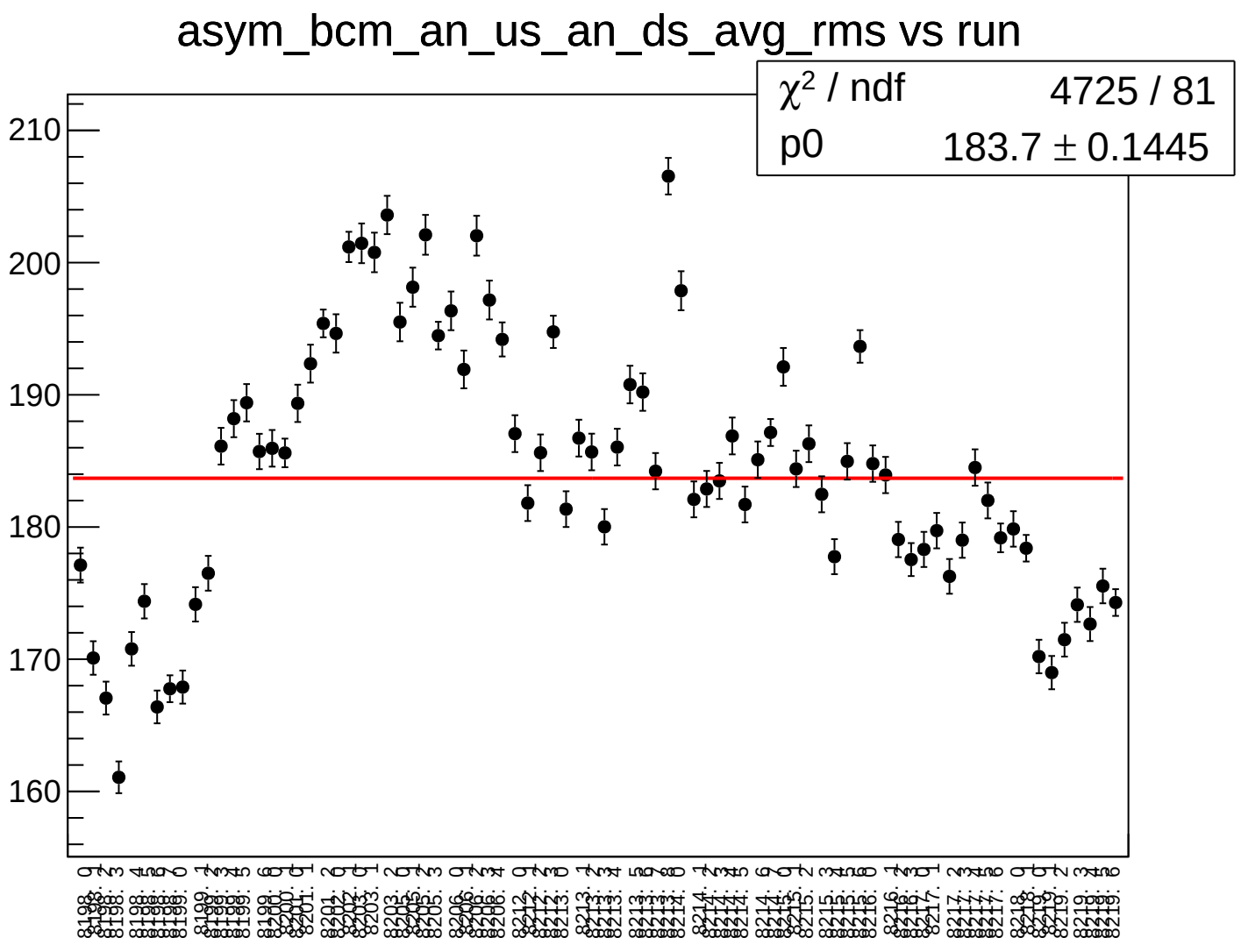

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 23.92 / 81
p0 −68.69 ± 69.41
1500
1000
500
0
−500
−1000
−1500
pull
Entries 82
Mean −1192
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

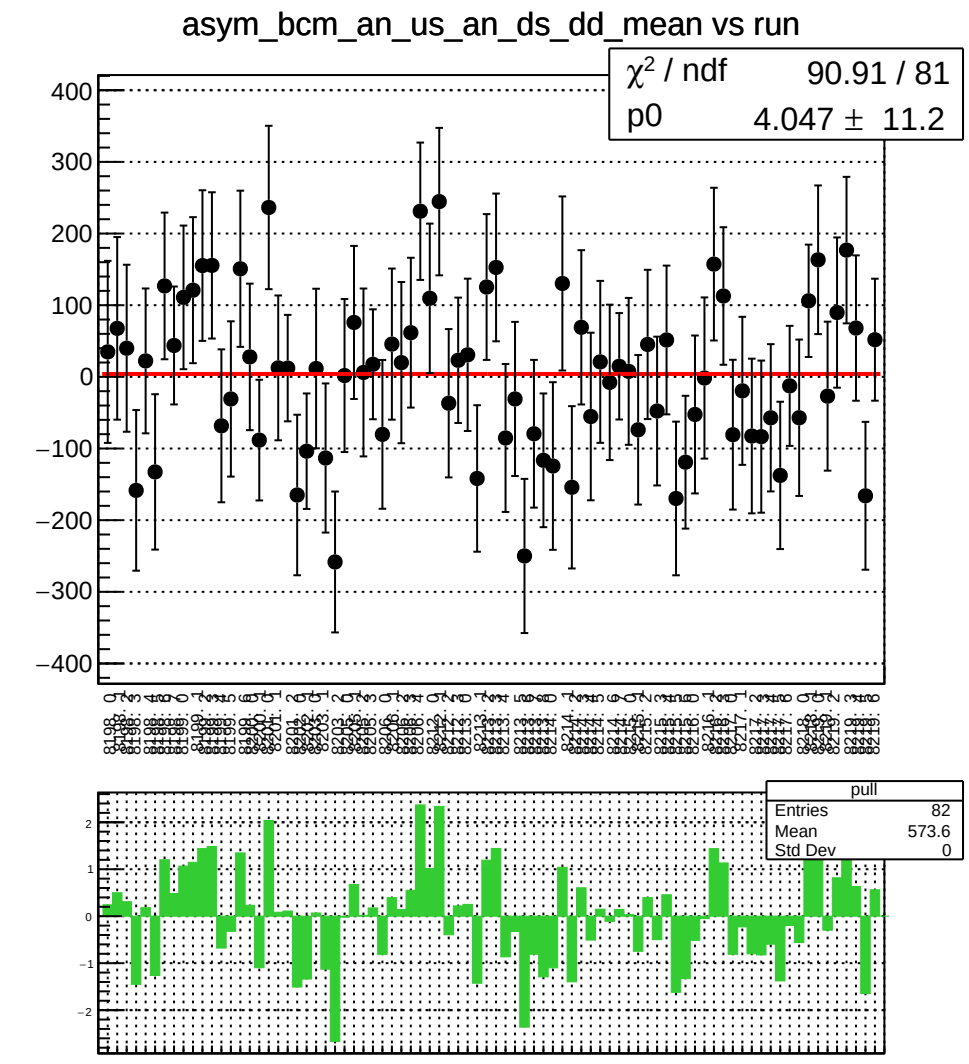

pull1D
Entries 82
Mean 0.002492
Std Dev 0.5401
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

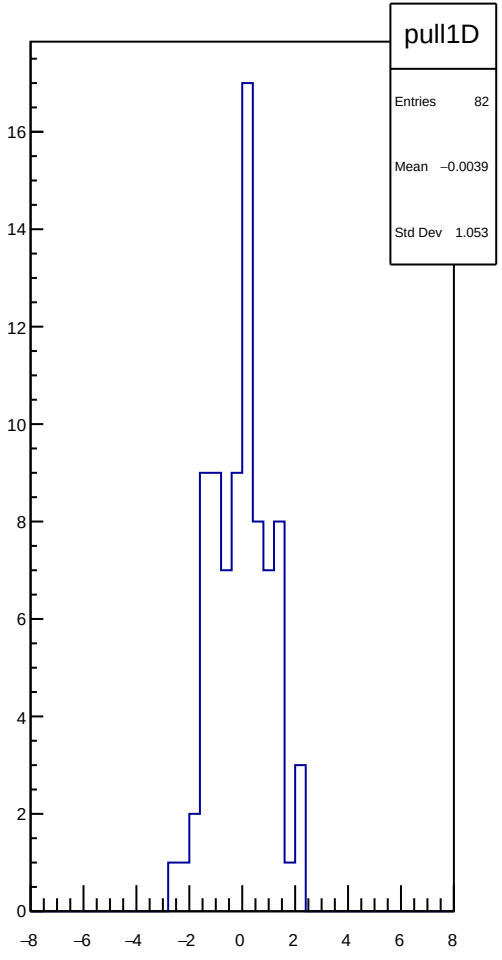

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 4535 / 81
p0 62.41 ± 0.04908
70
68
66
64
62
60
58
56
54

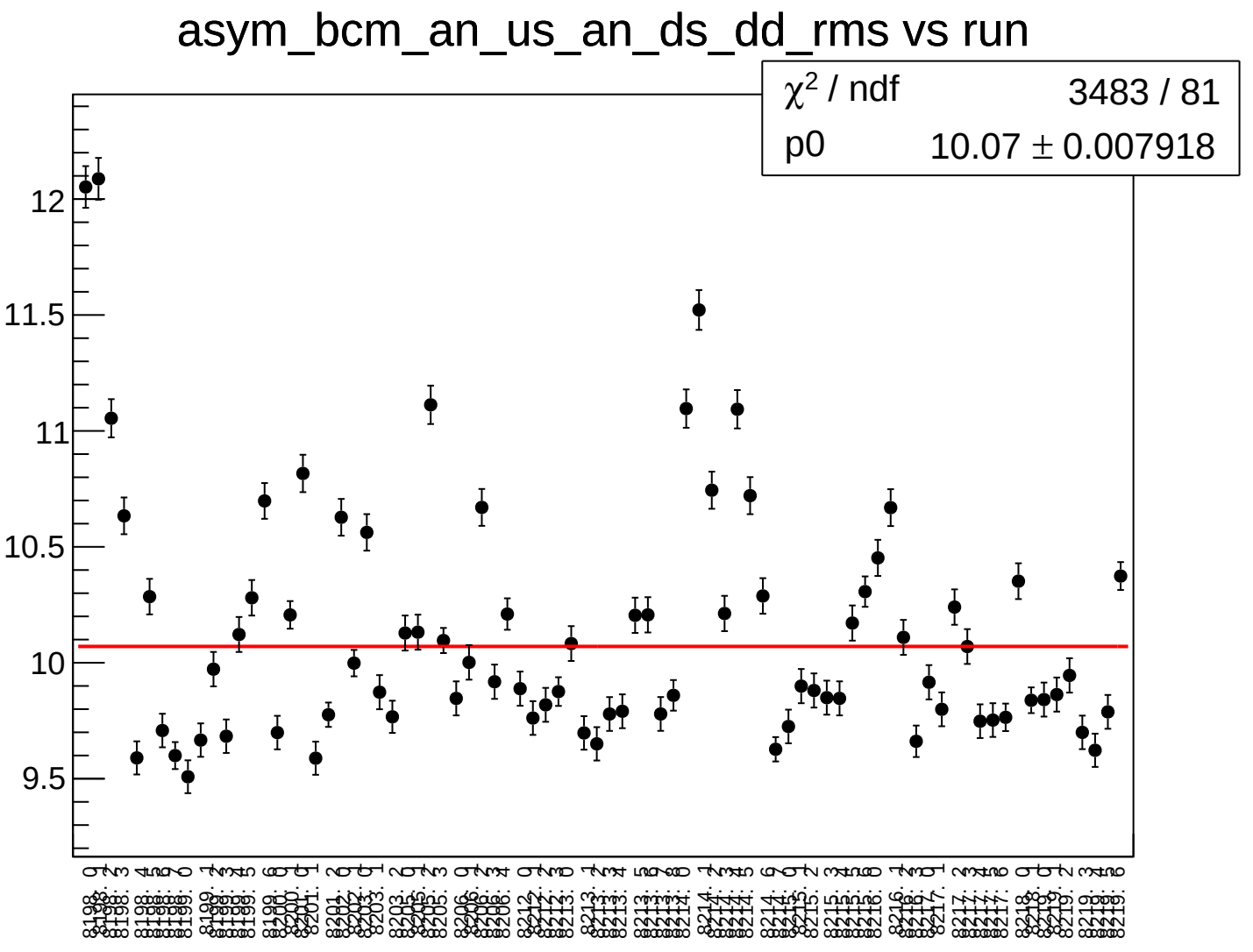

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 28.25 / 81
p0 −226 ± 204.3
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −486.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

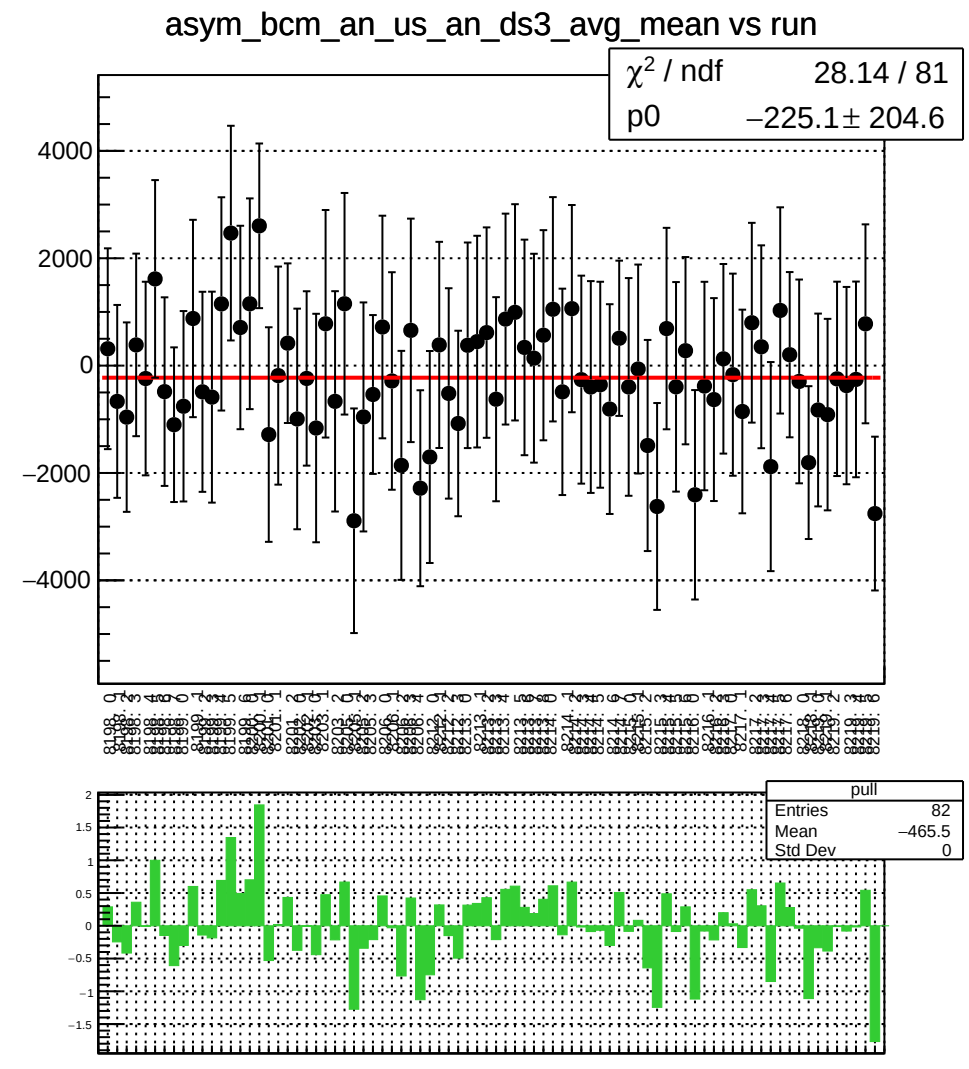

pull1D
Entries 82
Mean 0.00527
Std Dev 0.5869
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

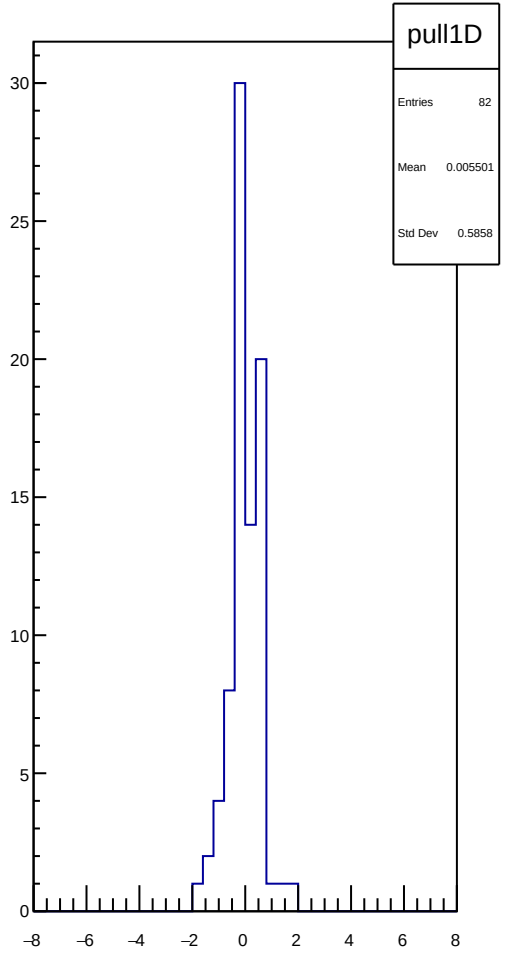

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 4725 / 81
p0 183.7 ± 0.1445
210
200
190
180
170
160

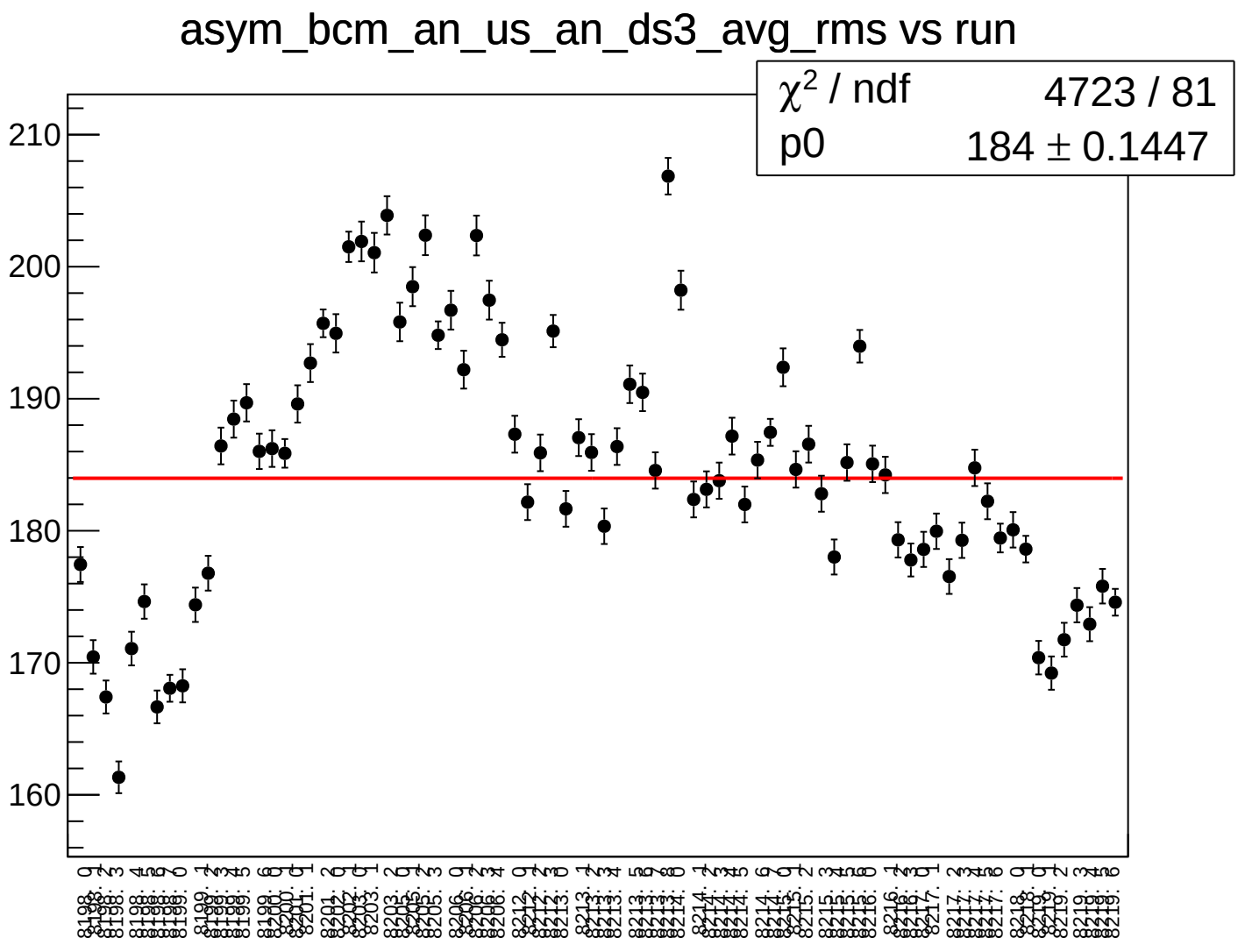

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 90.91 / 81
p0 4.047 ± 11.2
pull
Entries 82
Mean 573.6
Std Dev 0

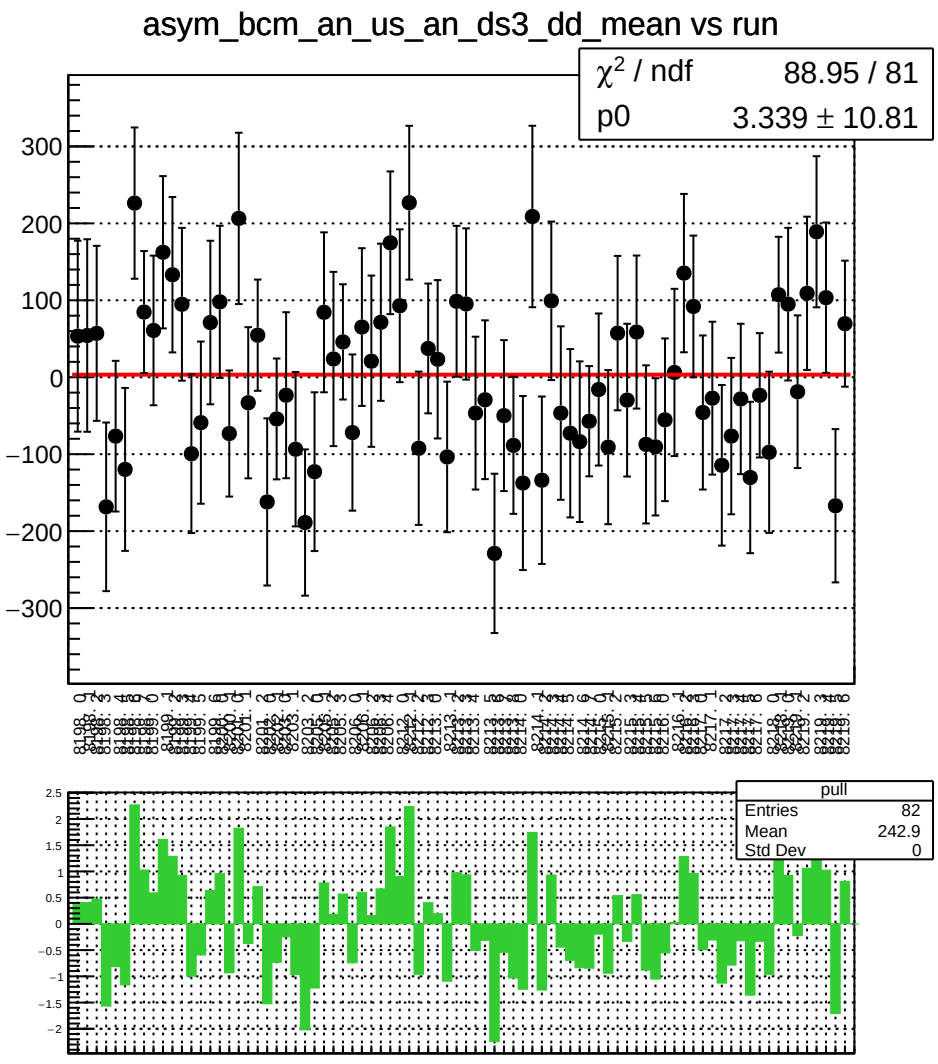

pull1D
Entries 82
Mean −0.0039
Std Dev 1.053

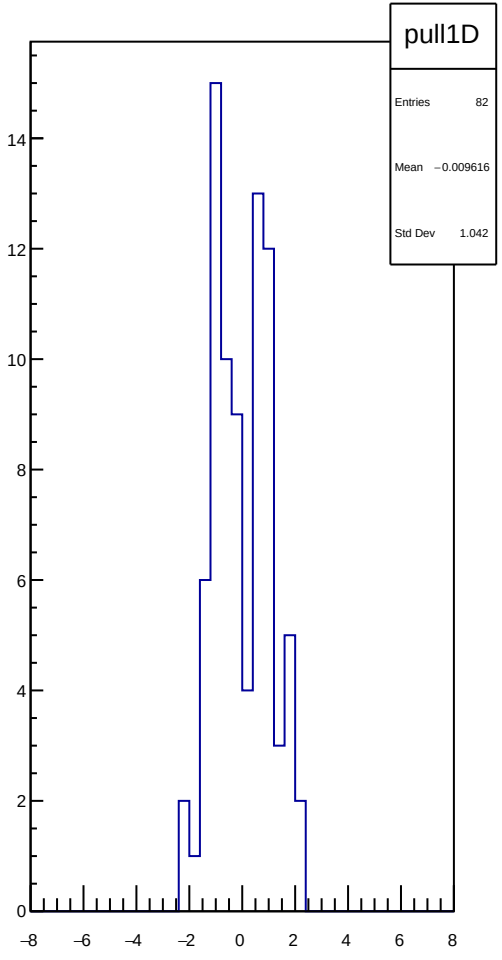

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 3483 / 81
p0 10.07 ± 0.007918
12
11.5
11
10.5
10
9.5

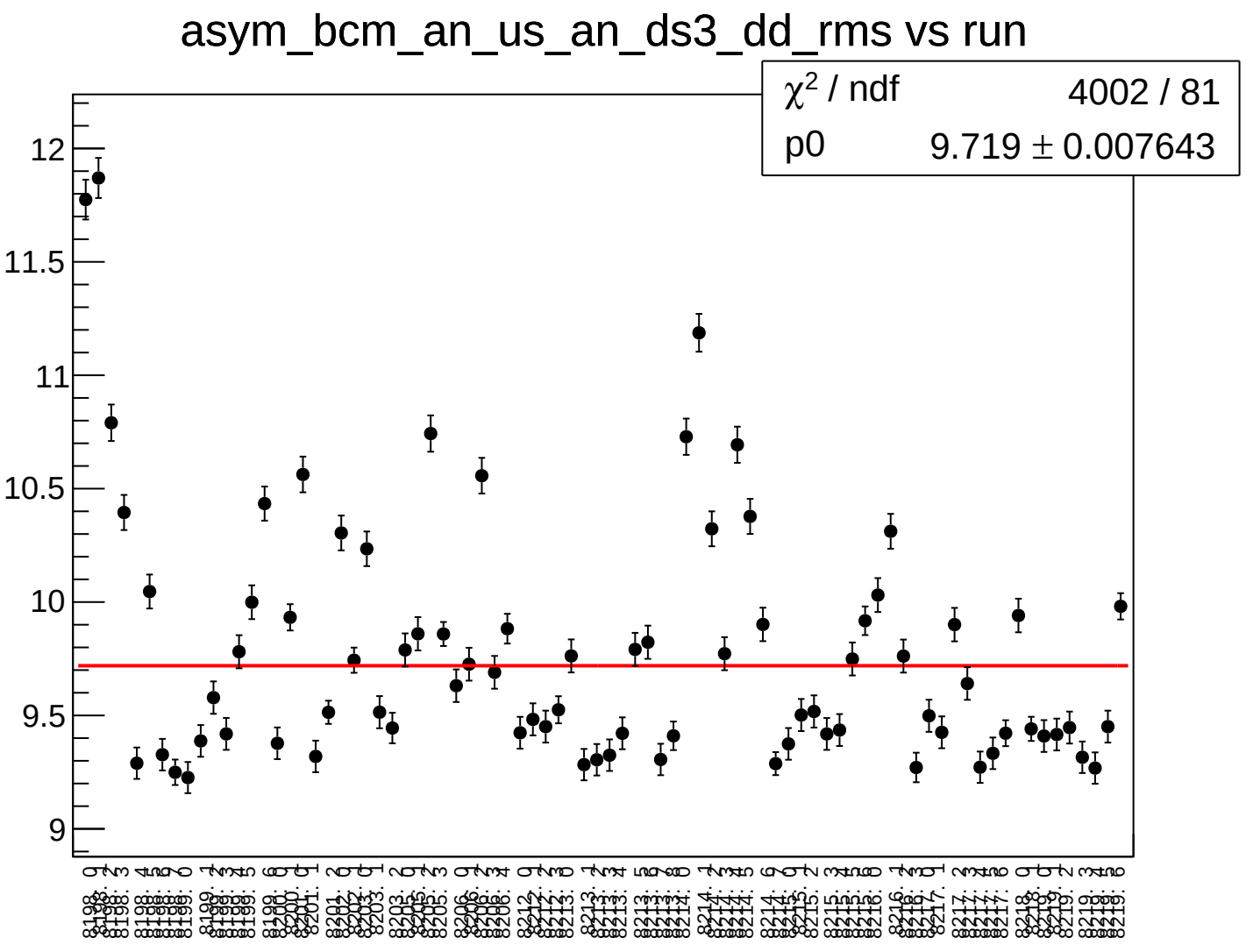

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 28.14 / 81
p0 −225.1± 204.6
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −465.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

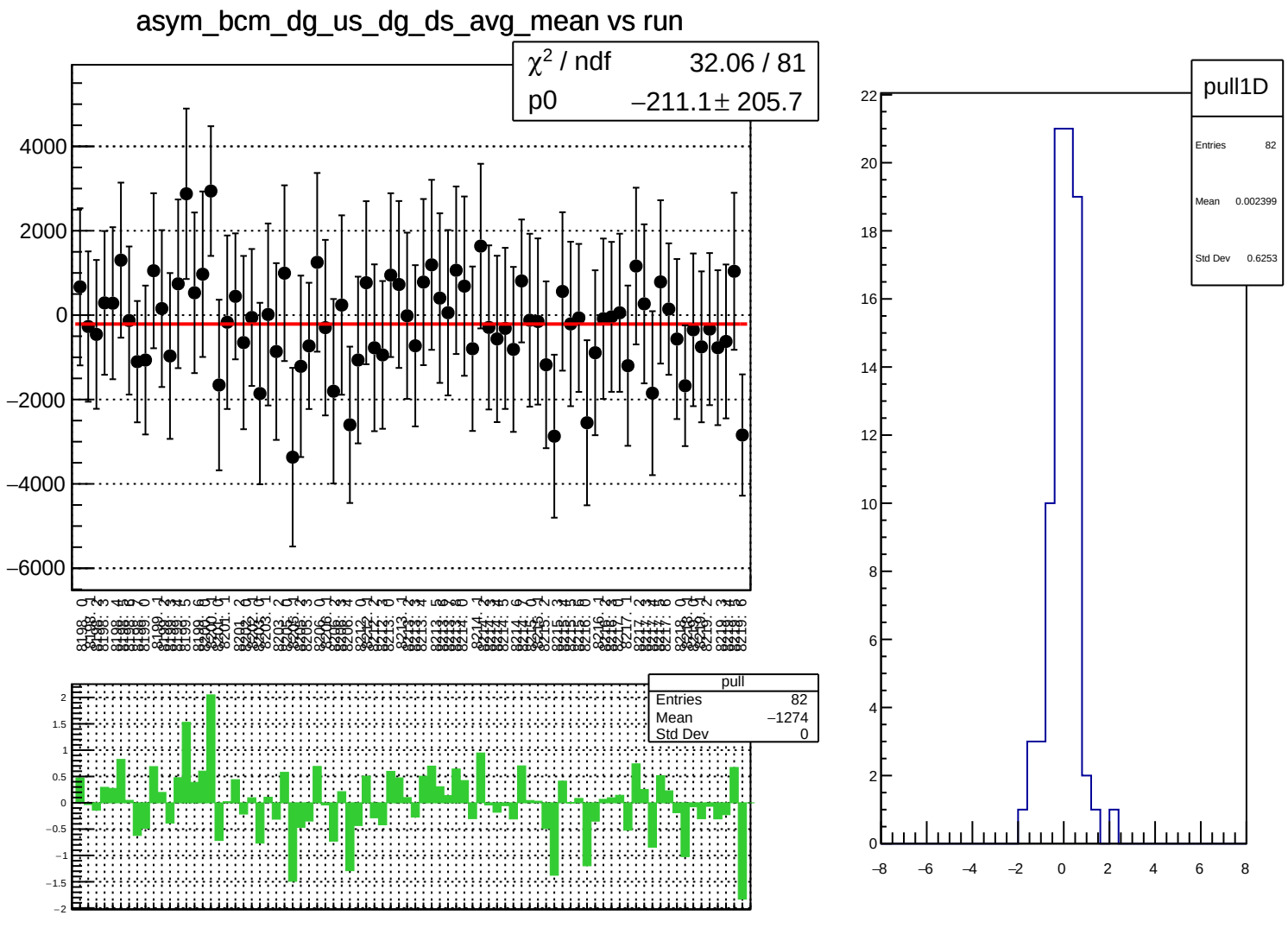

pull1D
Entries 82
Mean 0.005501
Std Dev 0.5858
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

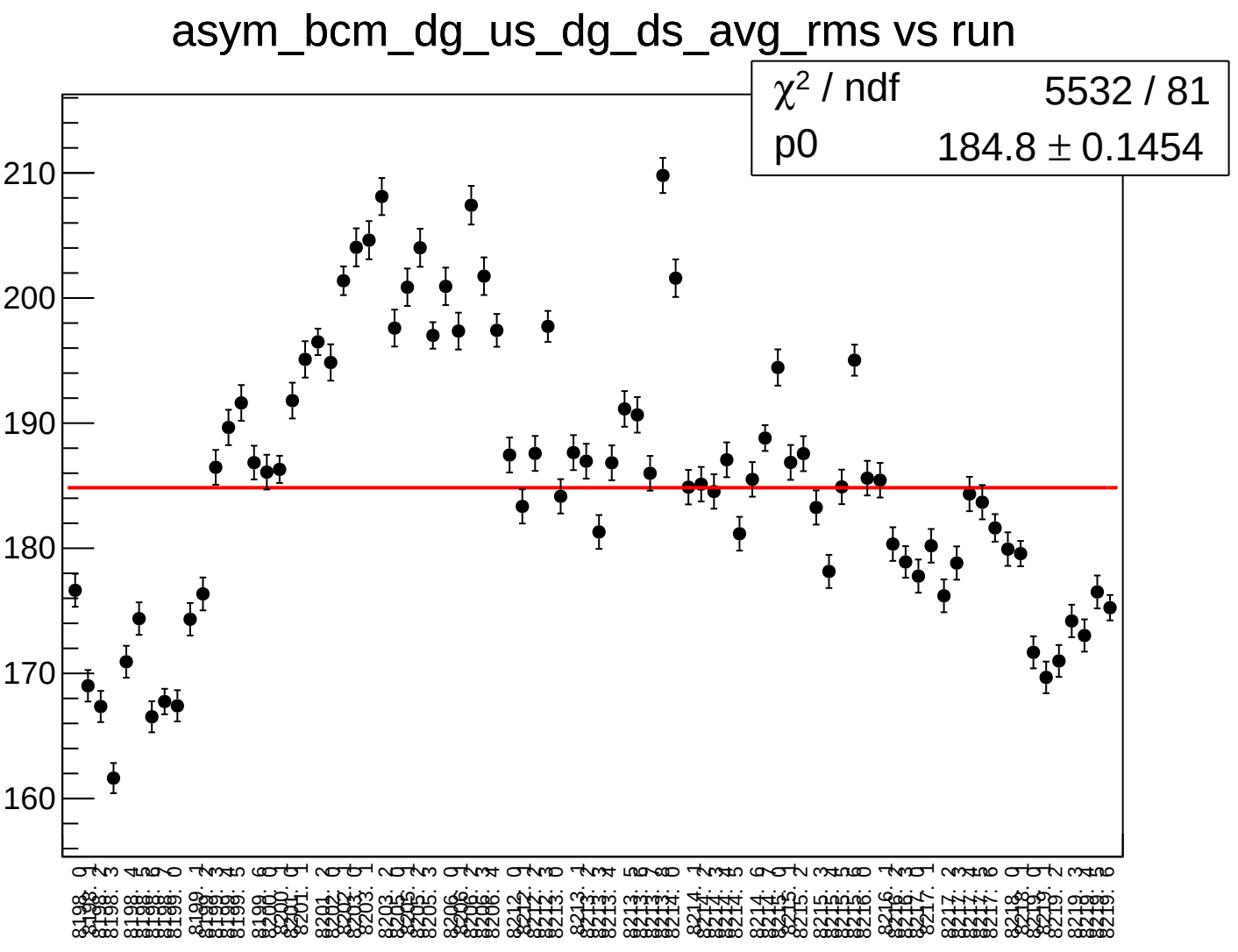

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 4723 / 81
p0 184 ± 0.1447
210
200
190
180
170
160

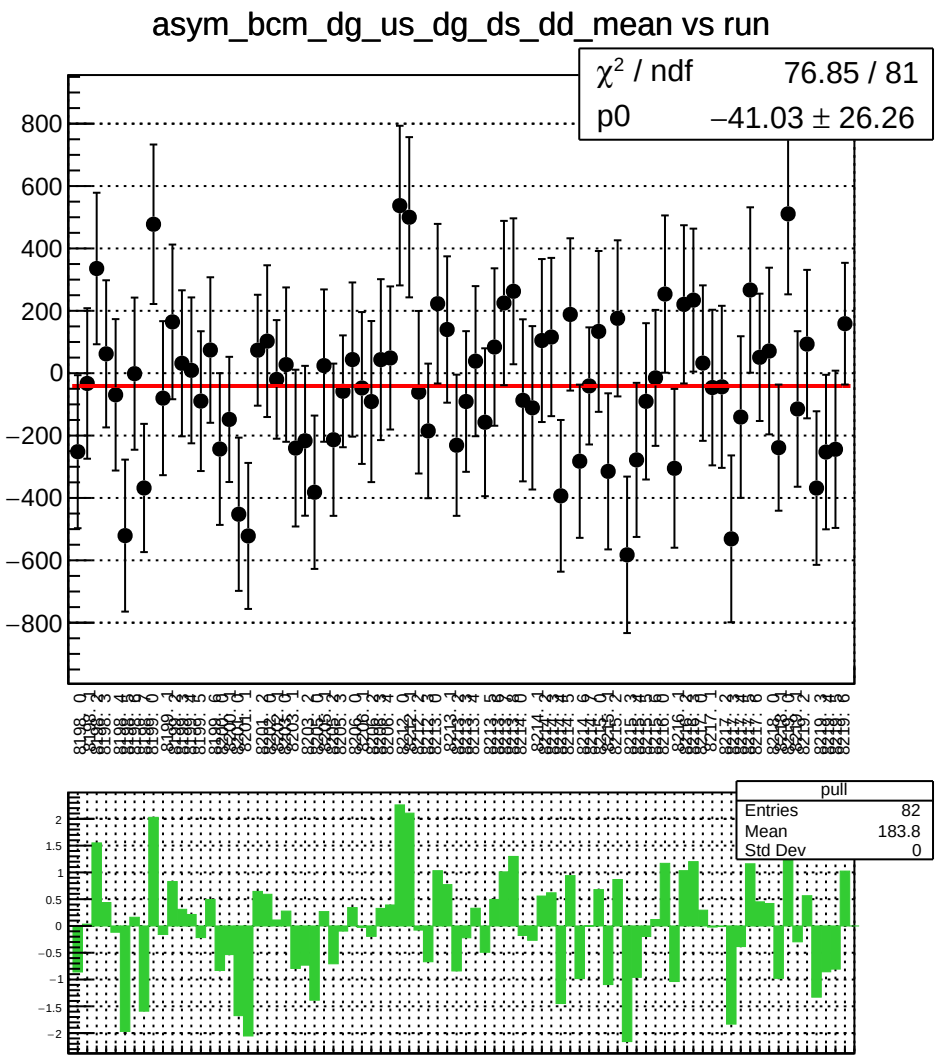

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 88.95 / 81
p0 3.339 ± 10.81
pull
Entries 82
Mean 242.9
Std Dev 0

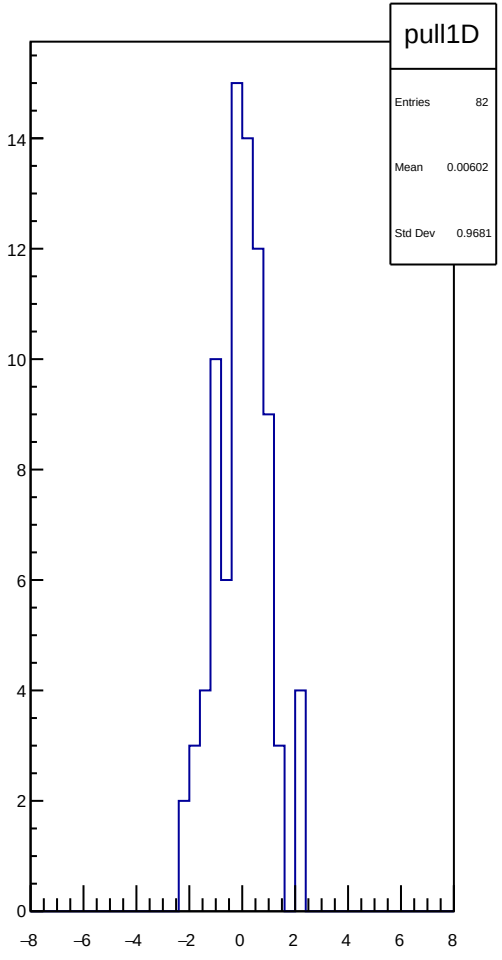

pull1D
Entries 82
Mean −0.009616
Std Dev 1.042

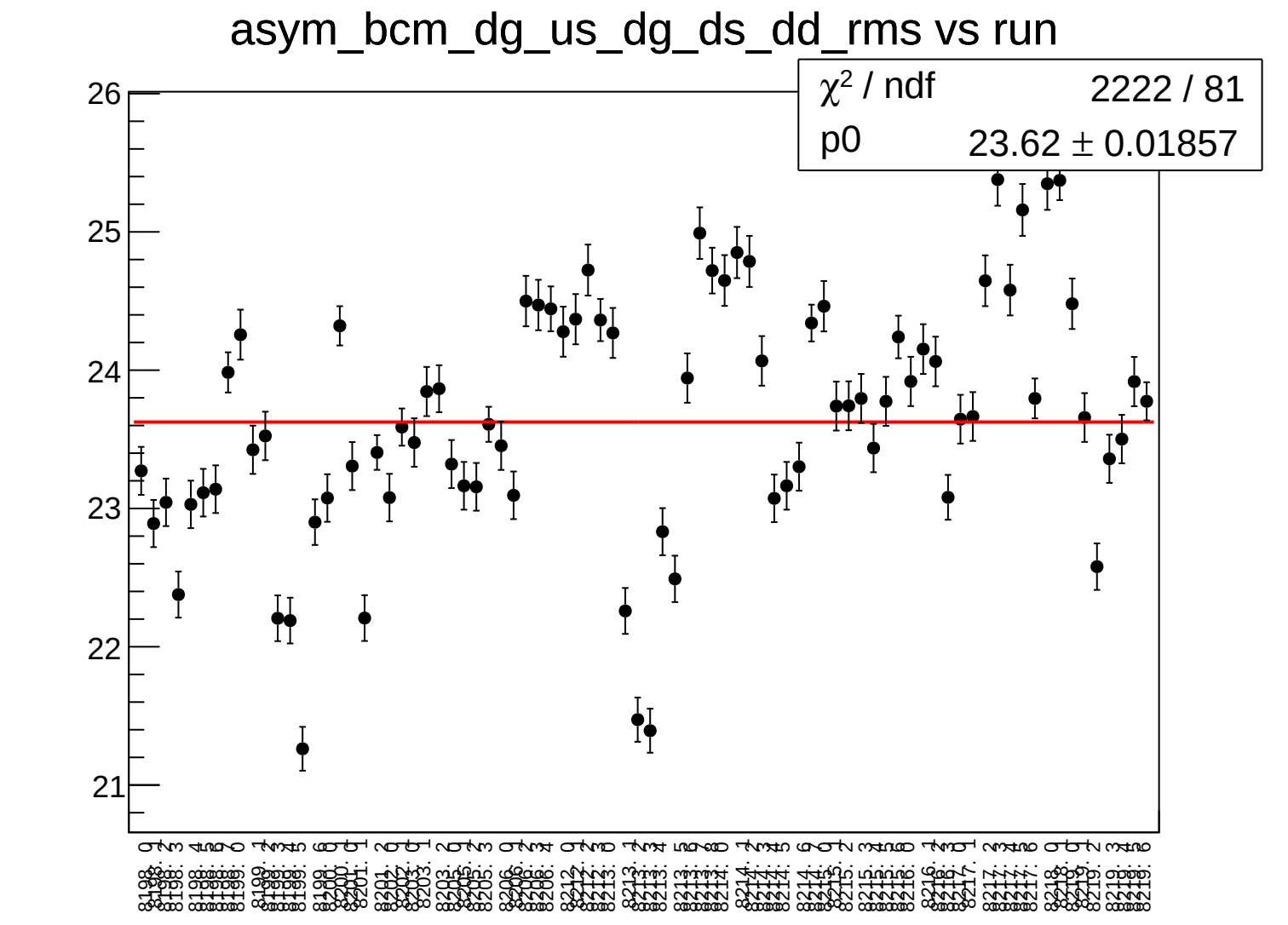

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 4002 / 81
p0 9.719 ± 0.007643
12
11.5
11
10.5
10
9.5
9

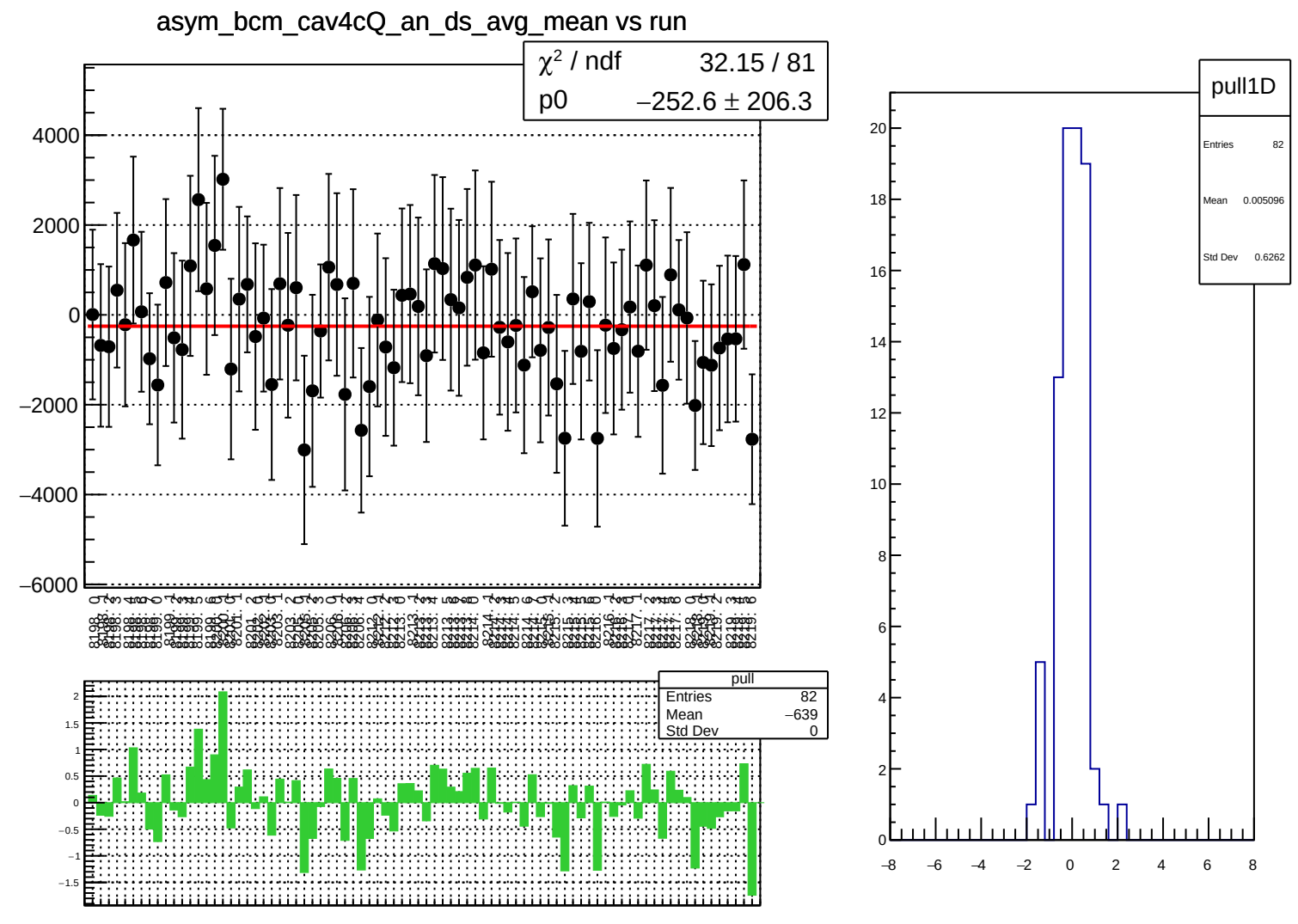

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 32.06 / 81
p0 −211.1± 205.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −1274
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.002399
Std Dev 0.6253
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

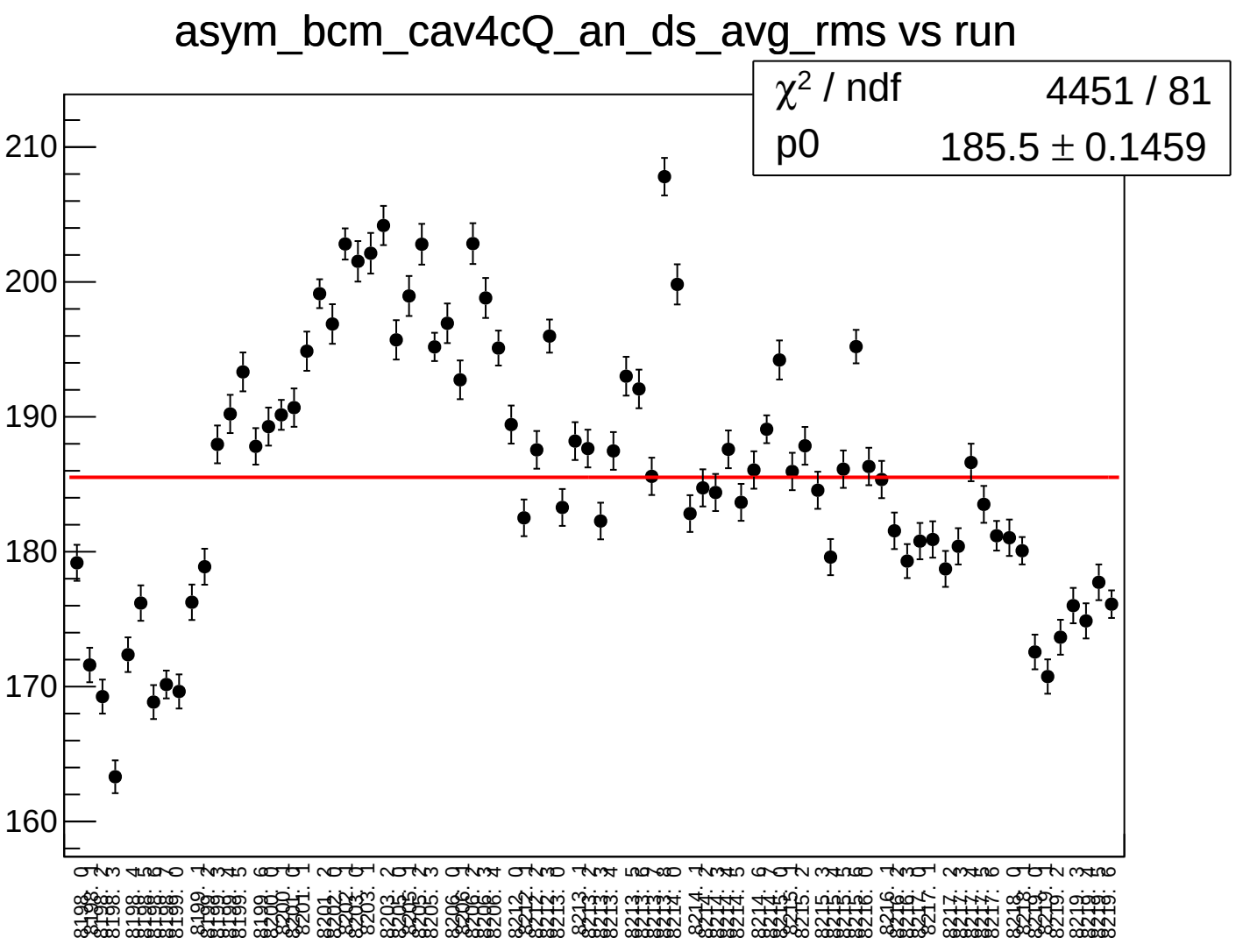

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 5532 / 81
p0 184.8 ± 0.1454
210
200
190
180
170
160

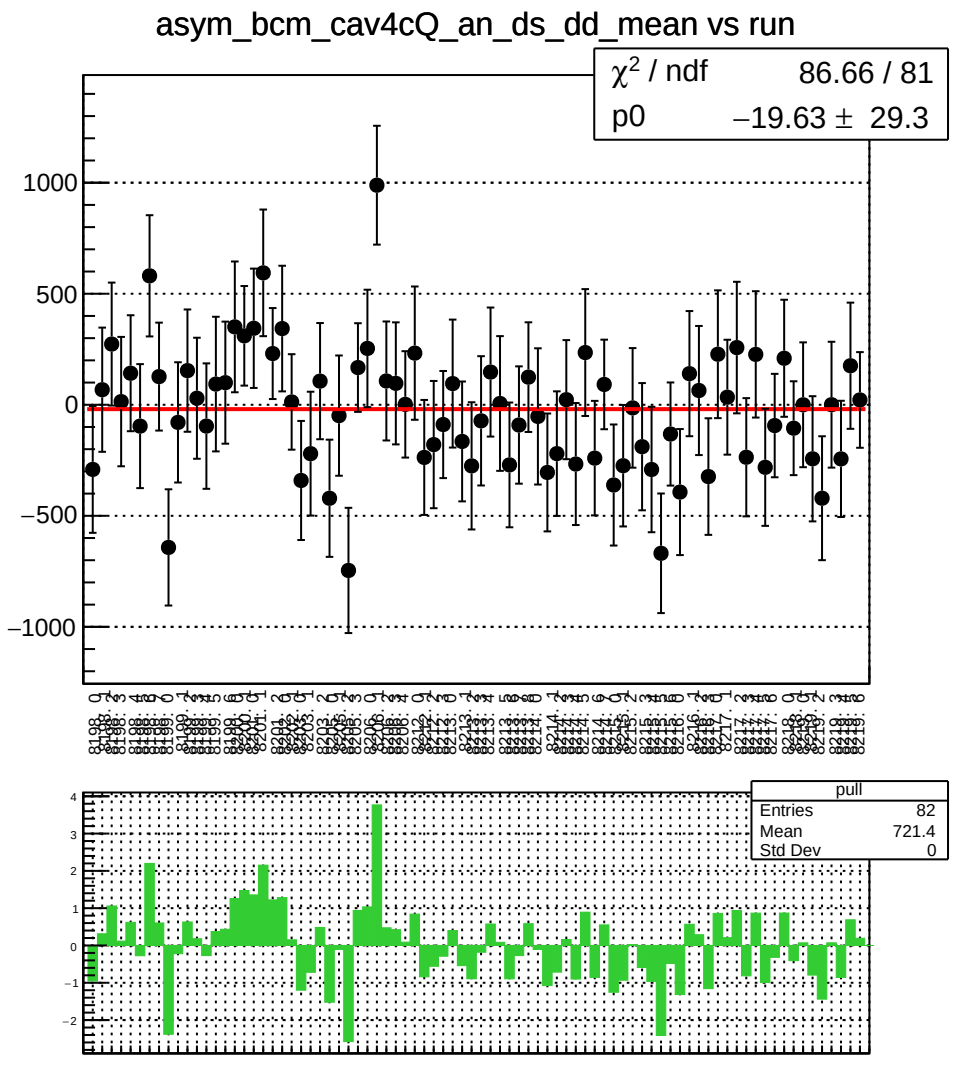

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 76.85 / 81
p0 −41.03 ± 26.26
pull
Entries 82
Mean 183.8
Std Dev 0

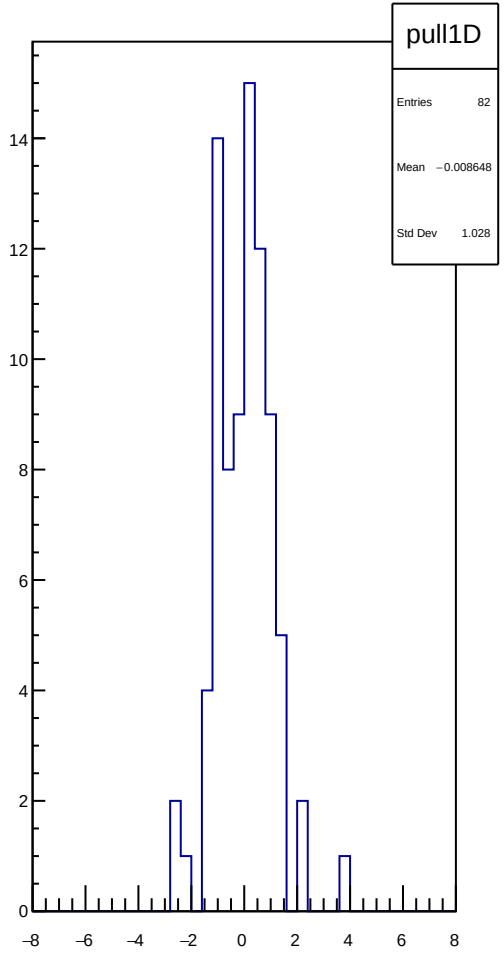

pull1D
Entries 82
Mean 0.00602
Std Dev 0.9681

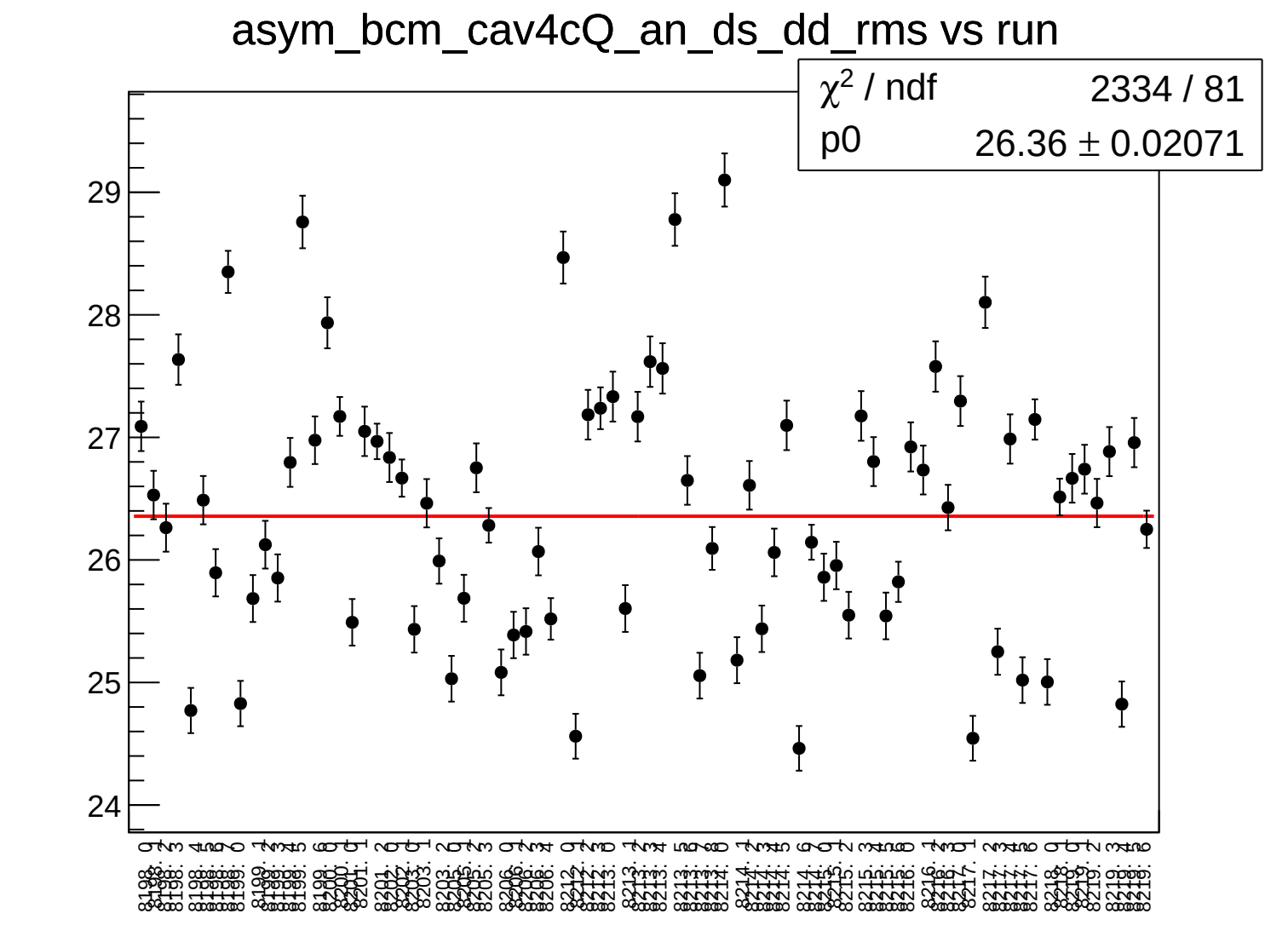

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2222 / 81
p0 23.62 ± 0.01857
26
25
24
23
22
21

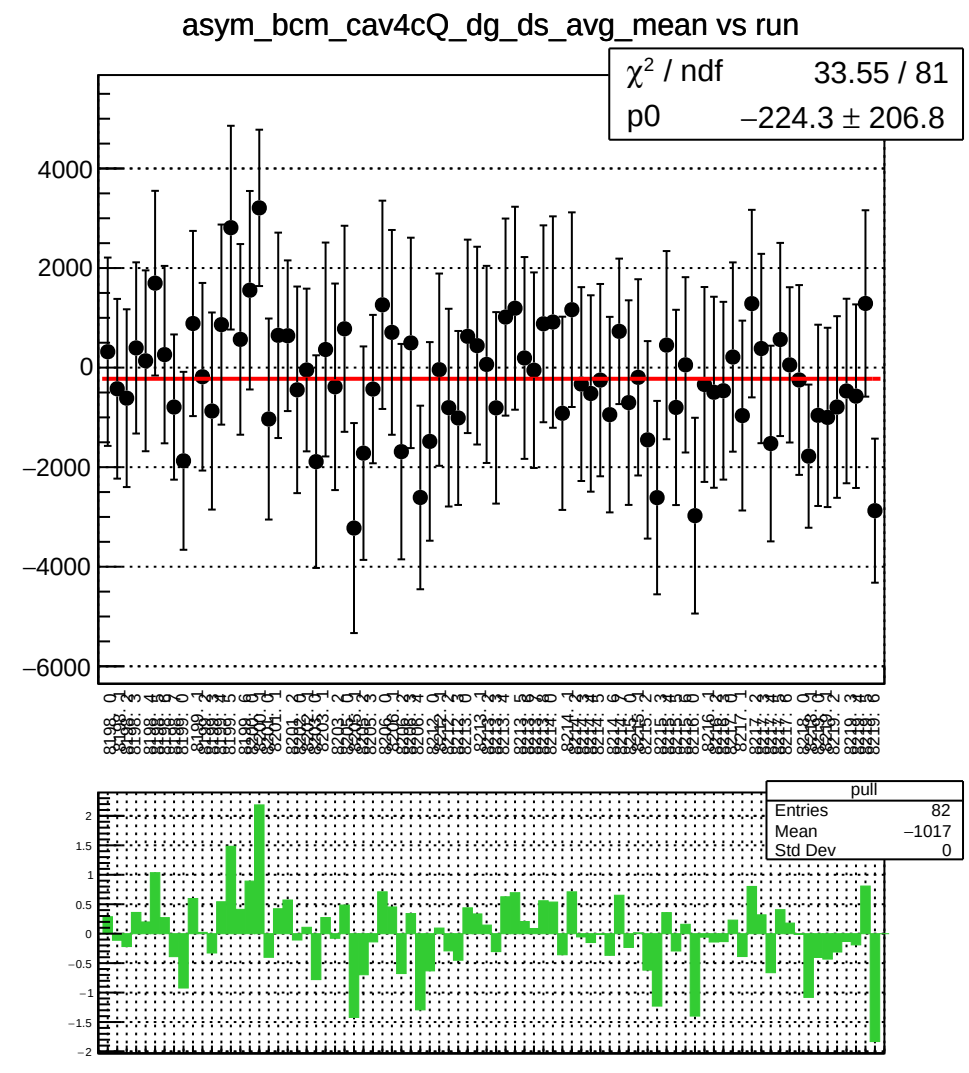

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 32.15 / 81
p0 −252.6 ± 206.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −639
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean 0.005096
Std Dev 0.6262
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

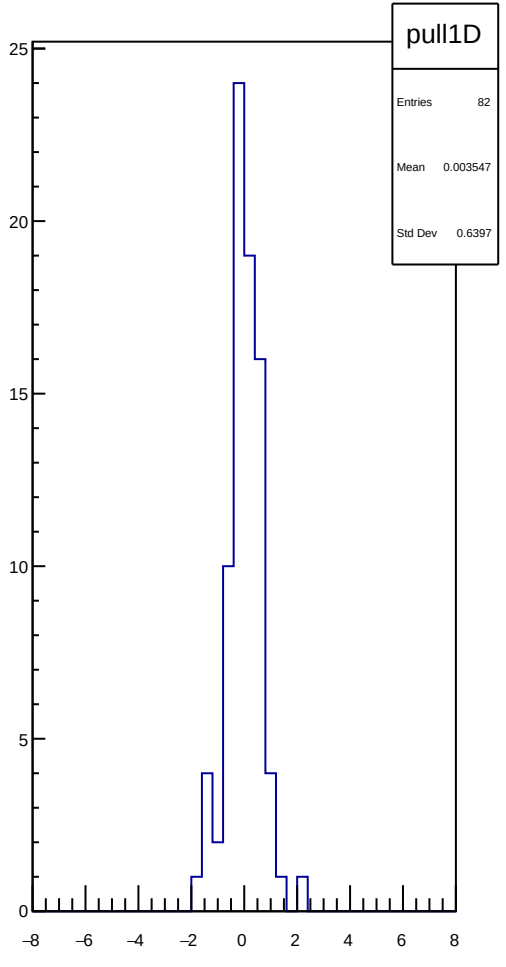

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 4451 / 81
p0 185.5 ± 0.1459
210
200
190
180
170
160

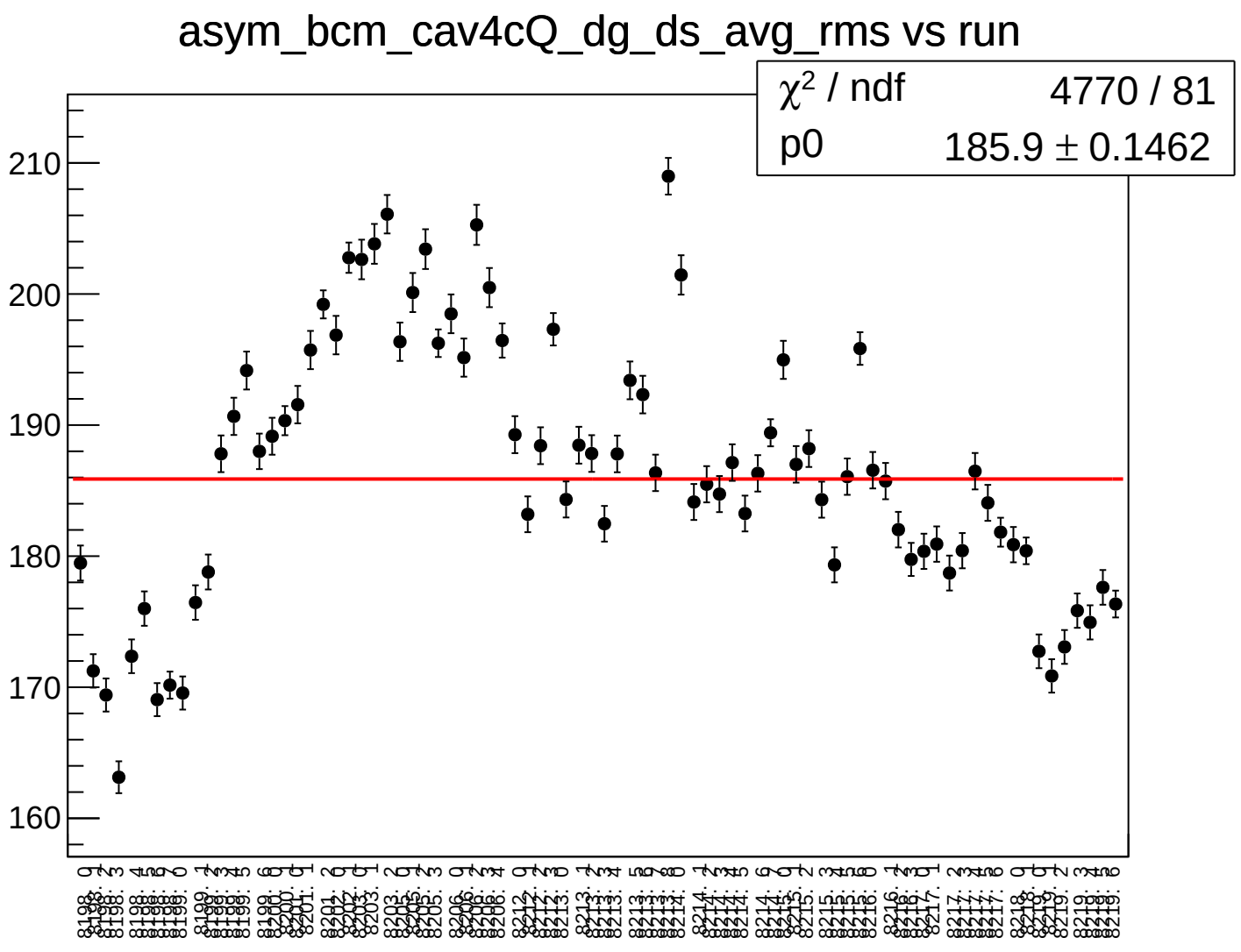

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 86.66 / 81
p0 −19.63 ± 29.3
1000
500
0
−500
−1000
pull
Entries 82
Mean 721.4
Std Dev 0
4
3
2
1
0
−1
−2

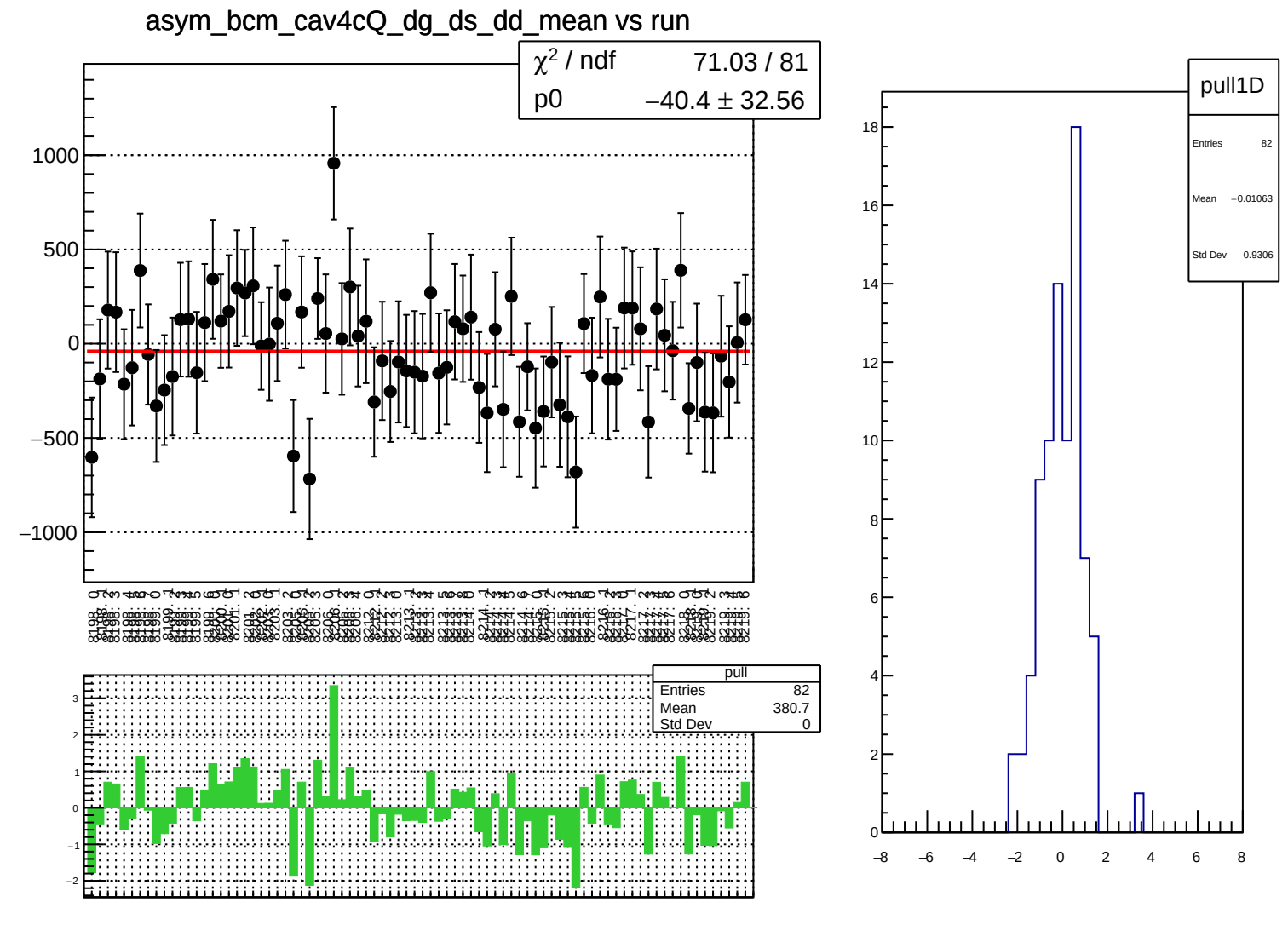

pull1D
Entries 82
Mean −0.008648
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

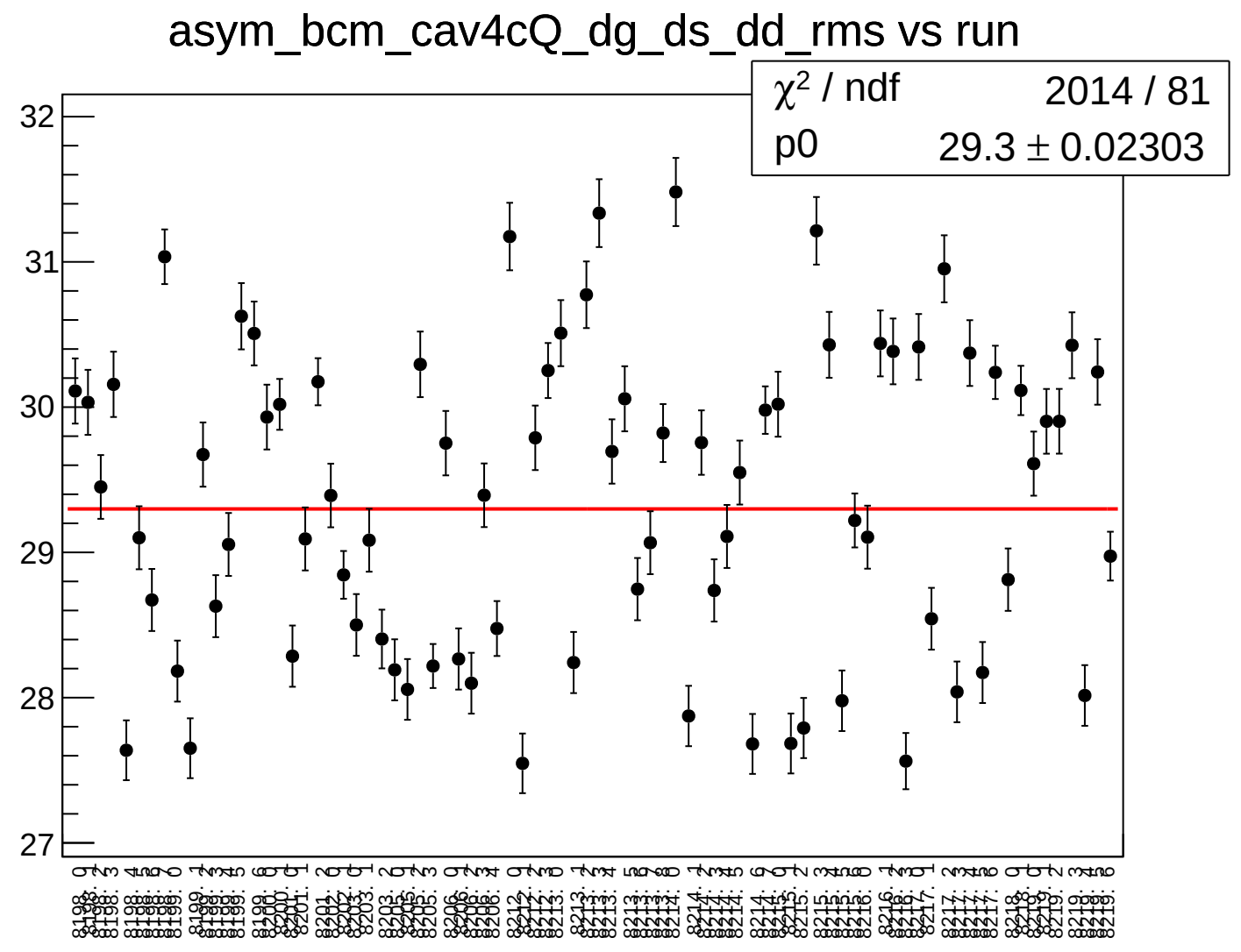

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2334 / 81
p0 26.36 ± 0.02071
29
28
27
26
25
24

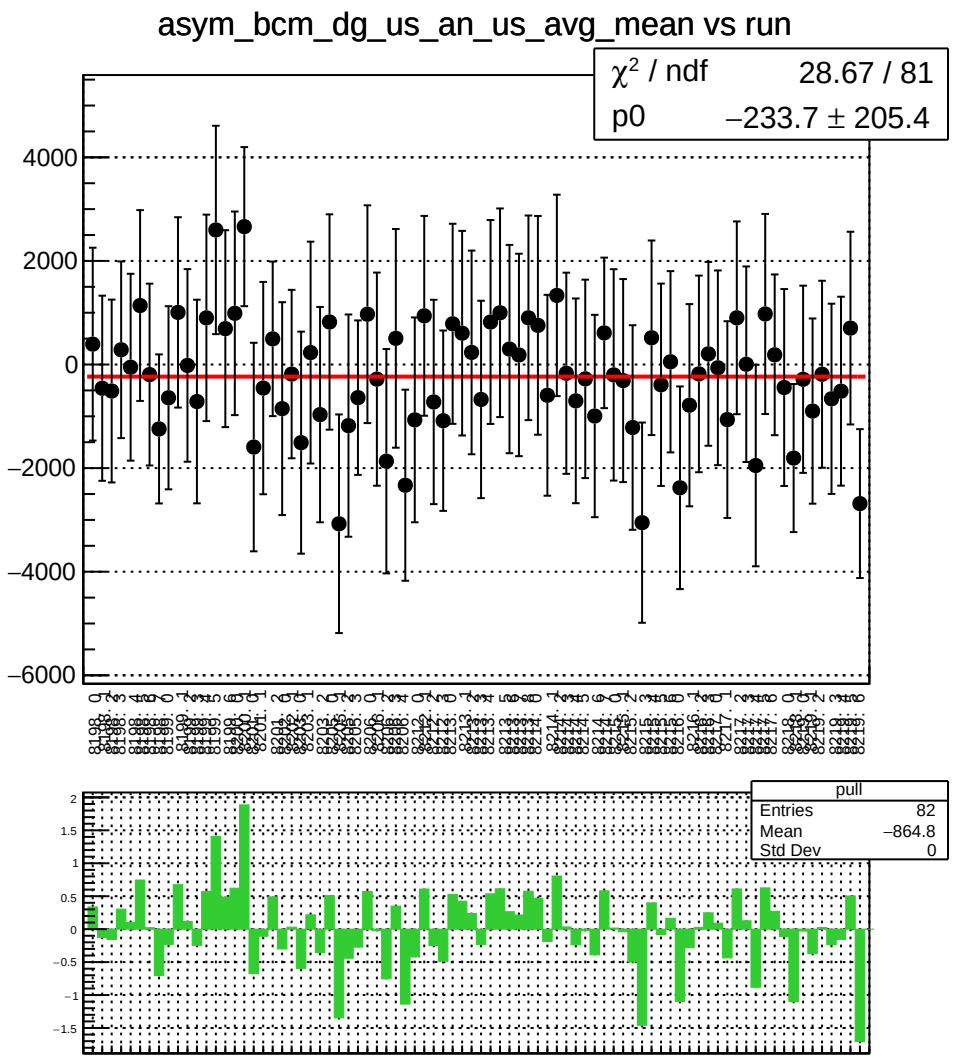

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 33.55 / 81
p0 −224.3 ± 206.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −1017
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

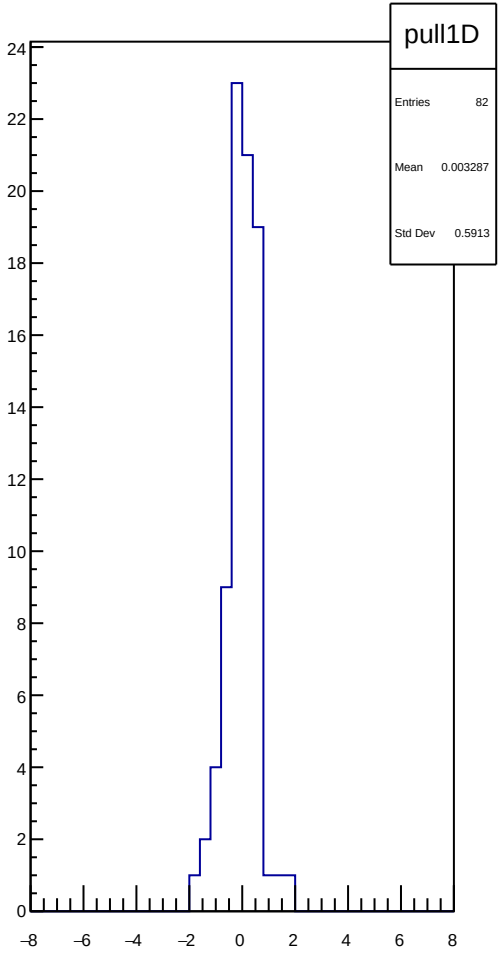

pull1D
Entries 82
Mean 0.003547
Std Dev 0.6397
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

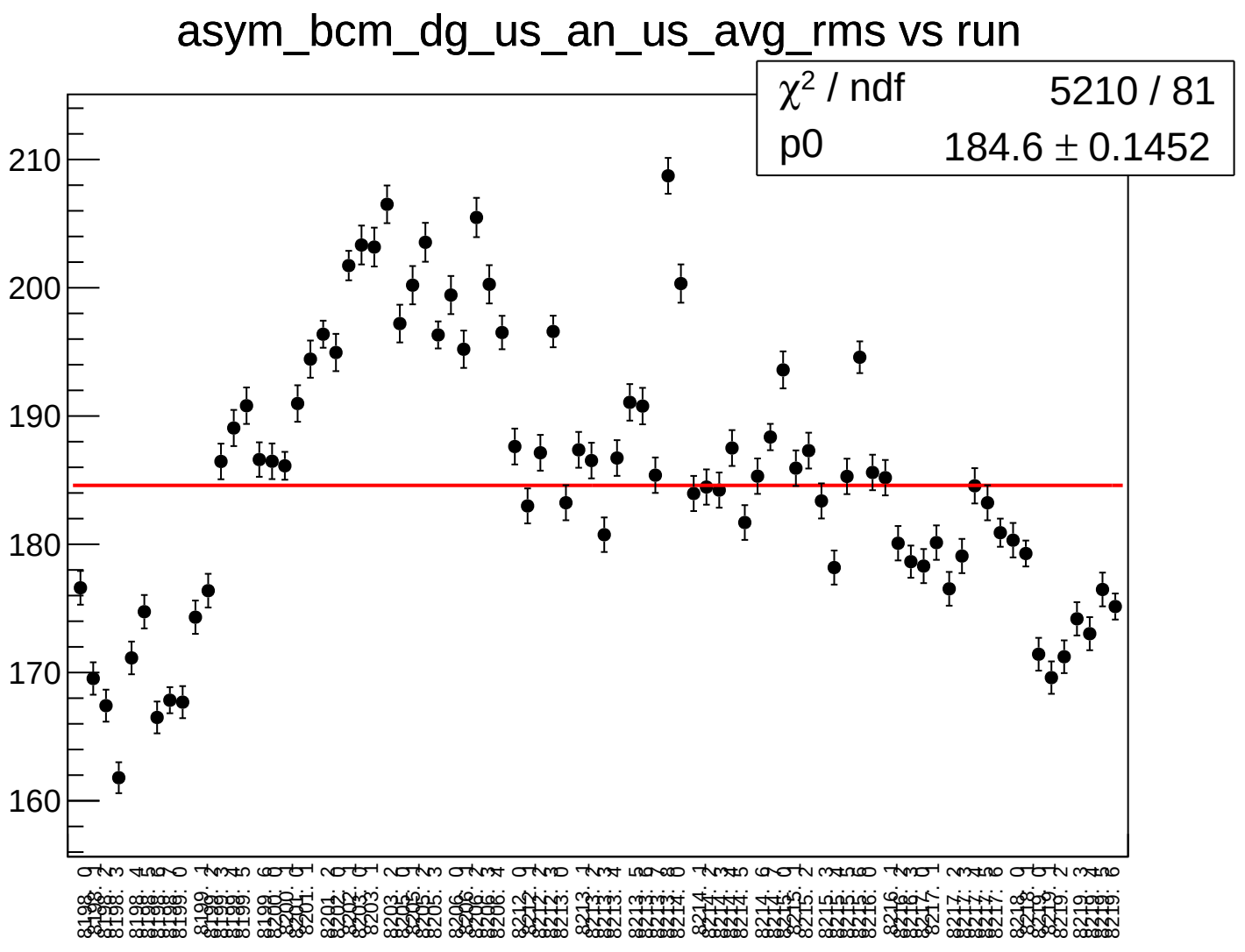

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 4770 / 81
p0 185.9 ± 0.1462
210
200
190
180
170
160

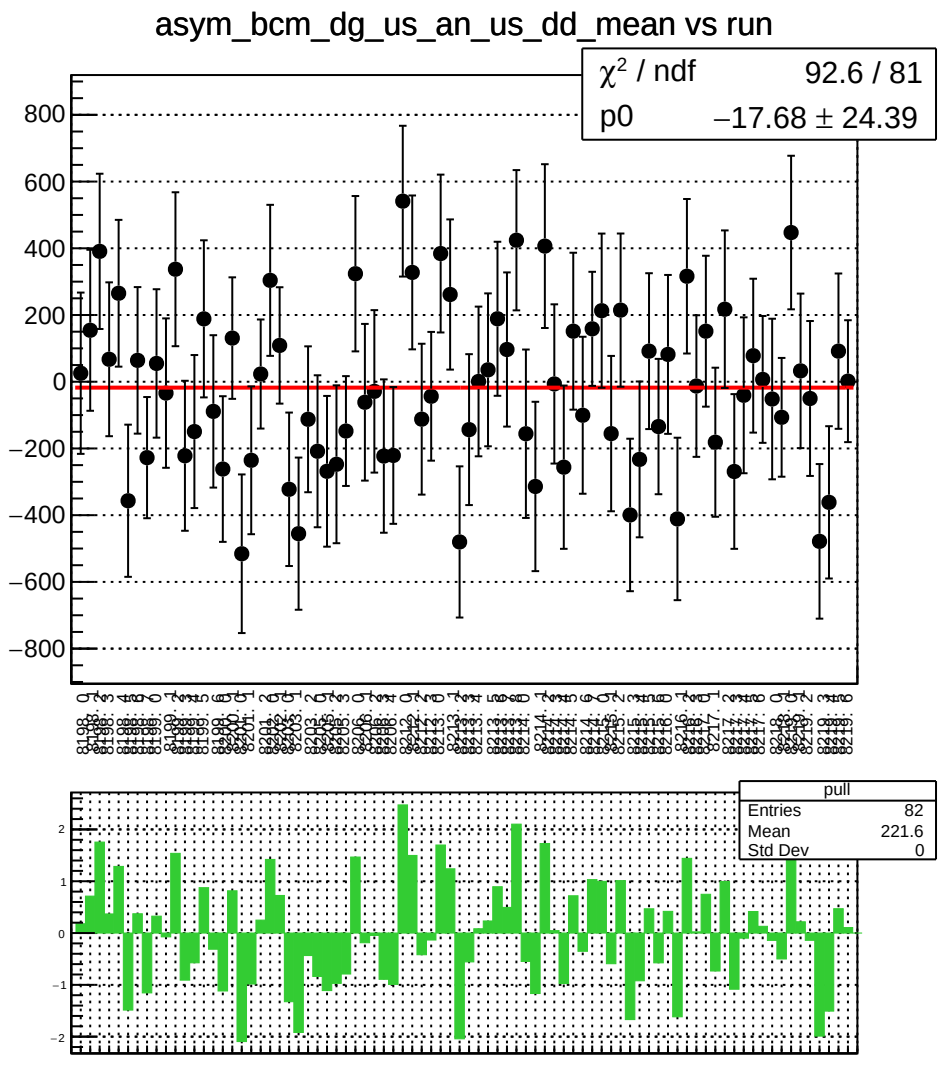

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 71.03 / 81
p0 −40.4 ± 32.56
1000
500
0
−500
−1000
pull
Entries 82
Mean 380.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.01063
Std Dev 0.9306
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

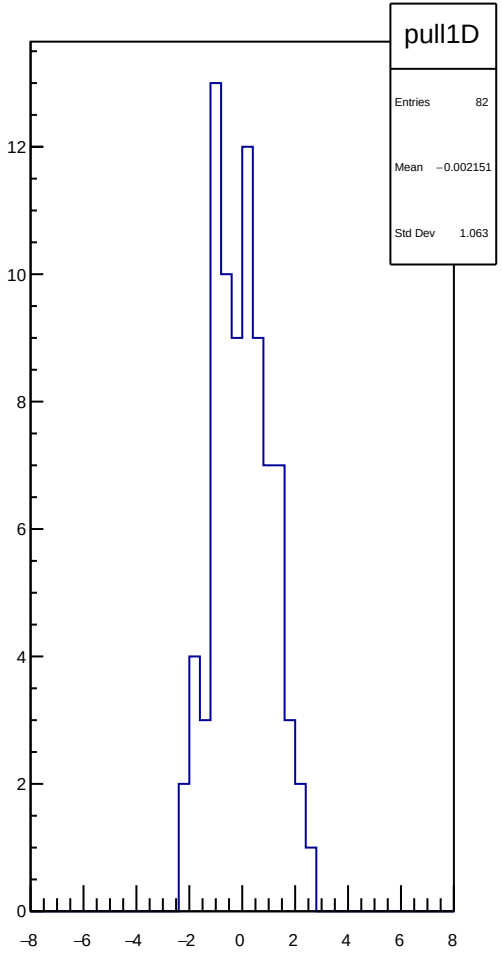

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2014 / 81
p0 29.3 ± 0.02303
32
31
30
29
28
27


asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 28.67 / 81
p0 −233.7 ± 205.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −864.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

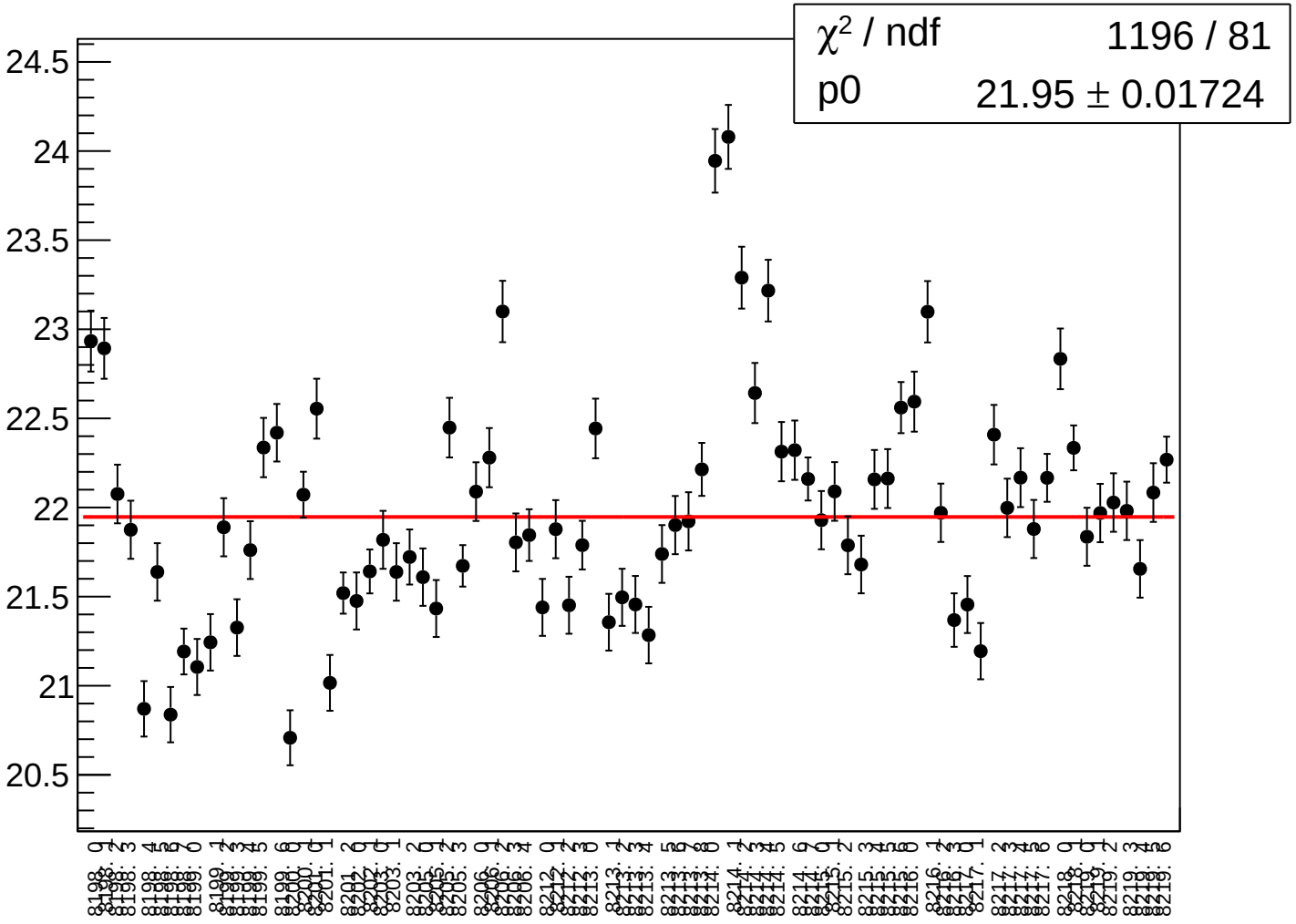

pull1D
Entries 82
Mean 0.003287
Std Dev 0.5913
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

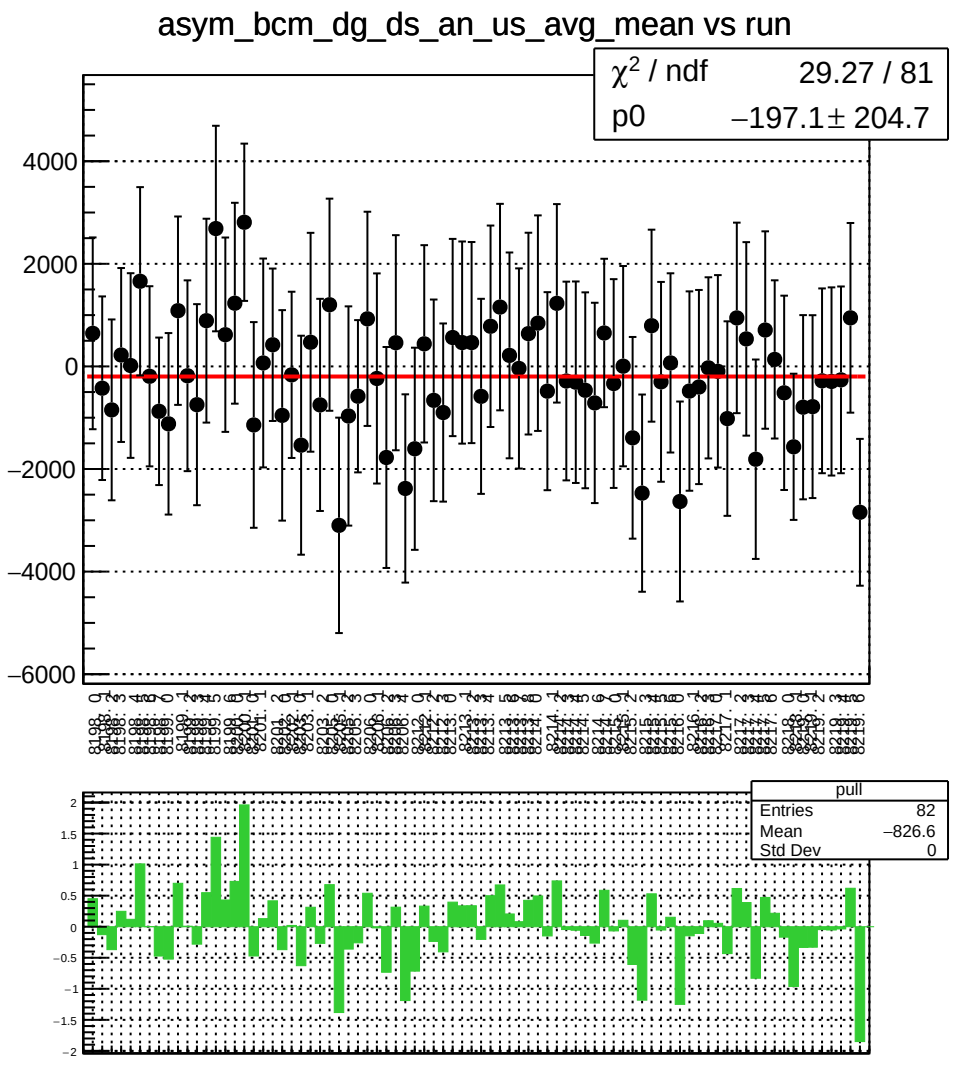

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 5210 / 81
p0 184.6 ± 0.1452
210
200
190
180
170
160

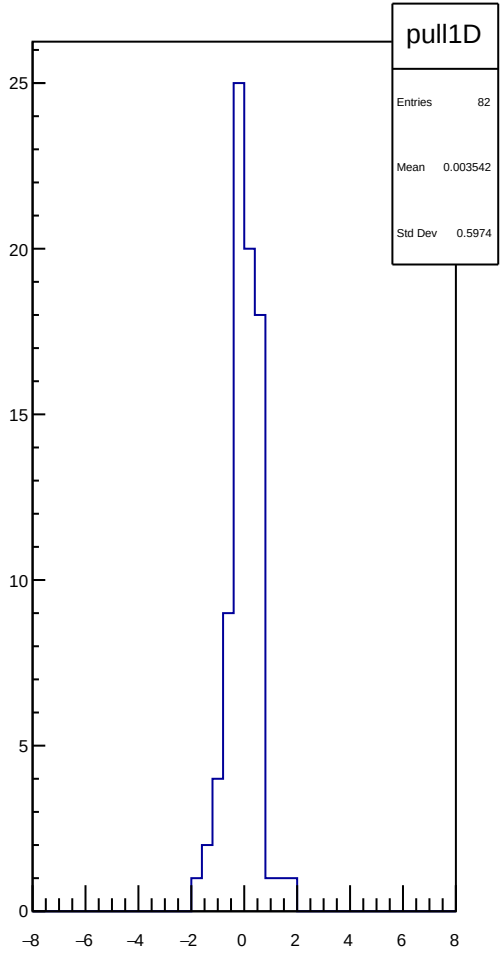

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 92.6 / 81
p0 −17.68 ± 24.39
pull
Entries 82
Mean 221.6
Std Dev 0

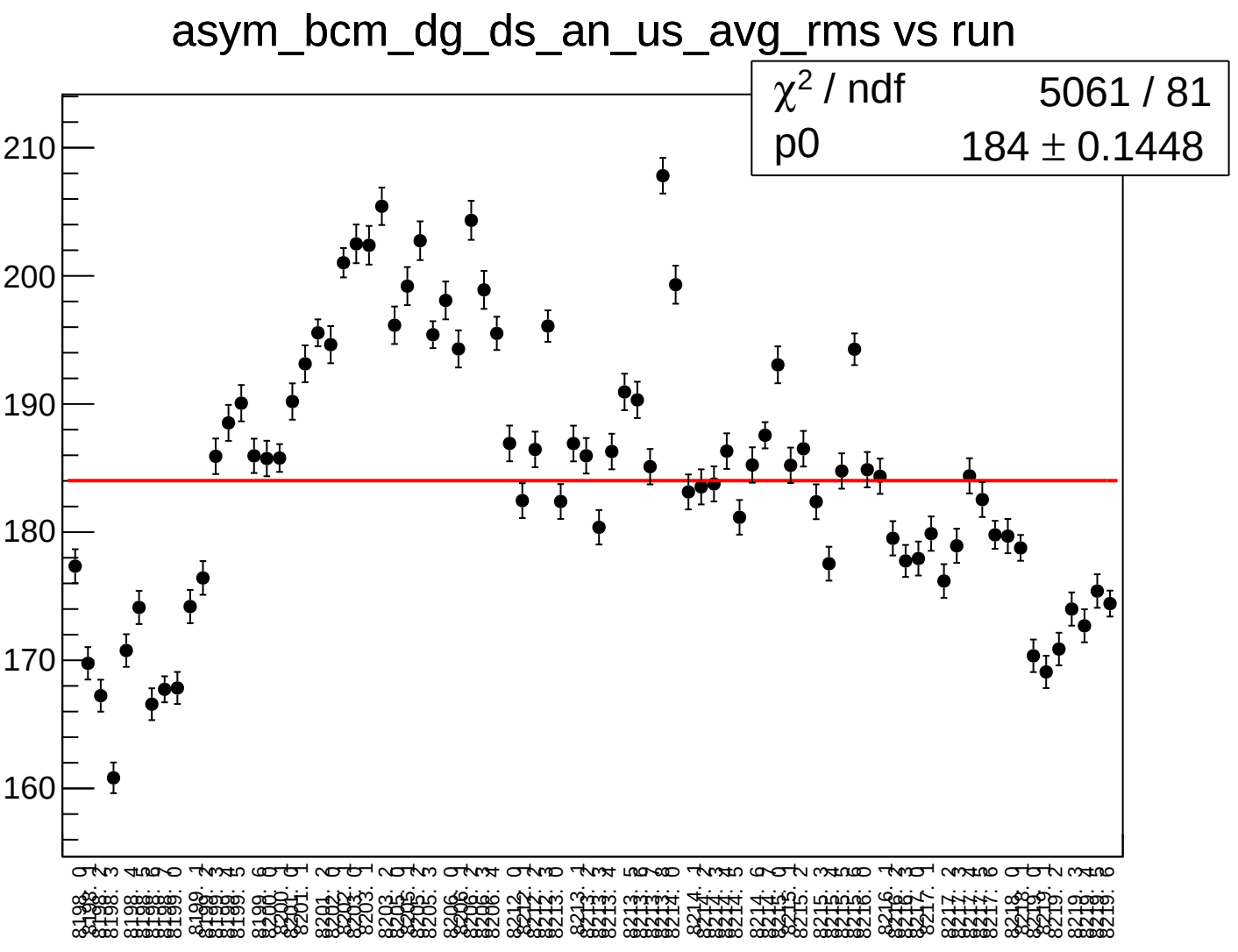

pull1D
Entries 82
Mean −0.002151
Std Dev 1.063

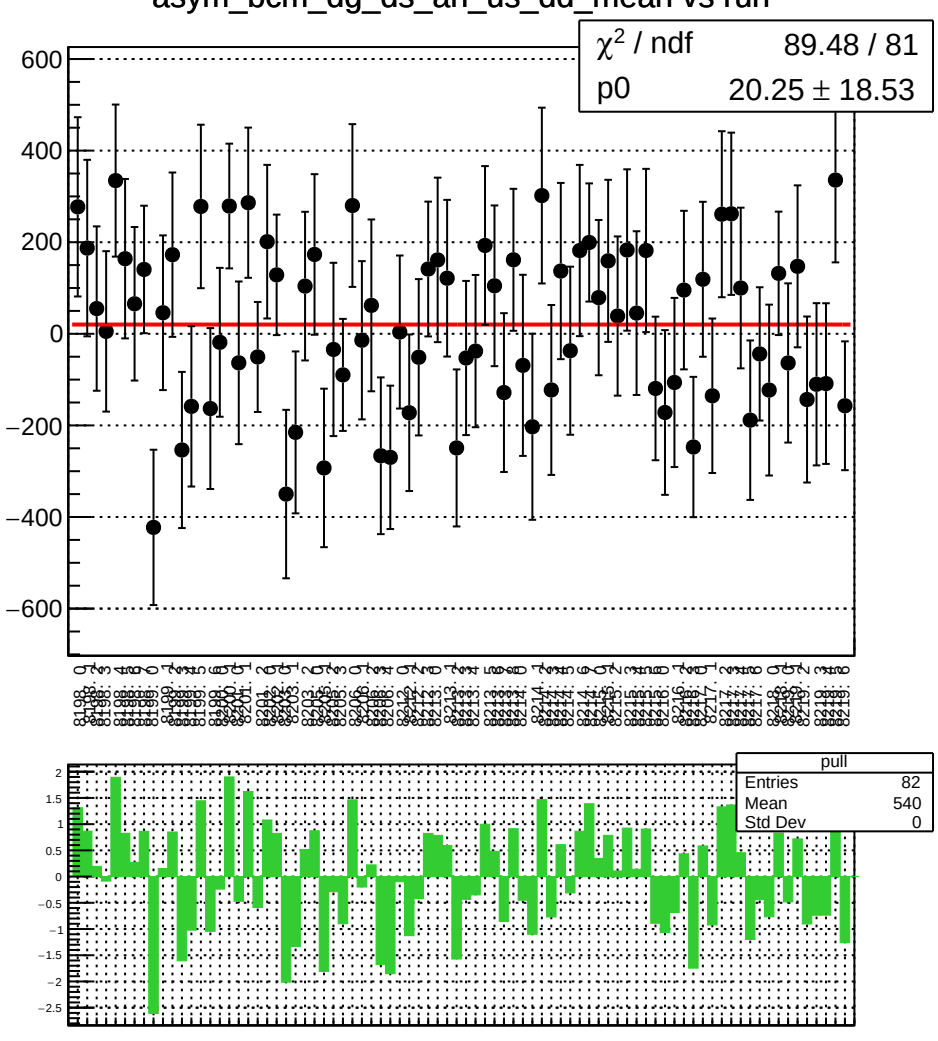
# asym_bcm_dg_us_an_us_dd_rms vs run

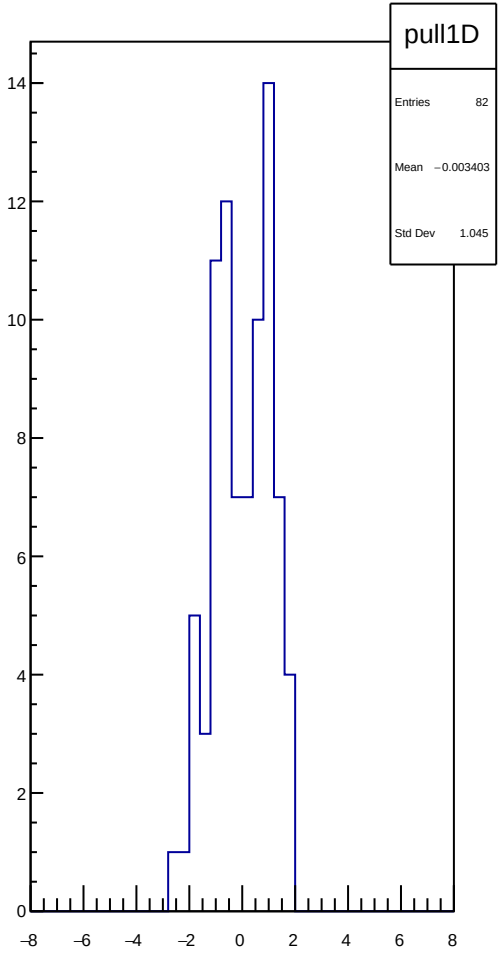


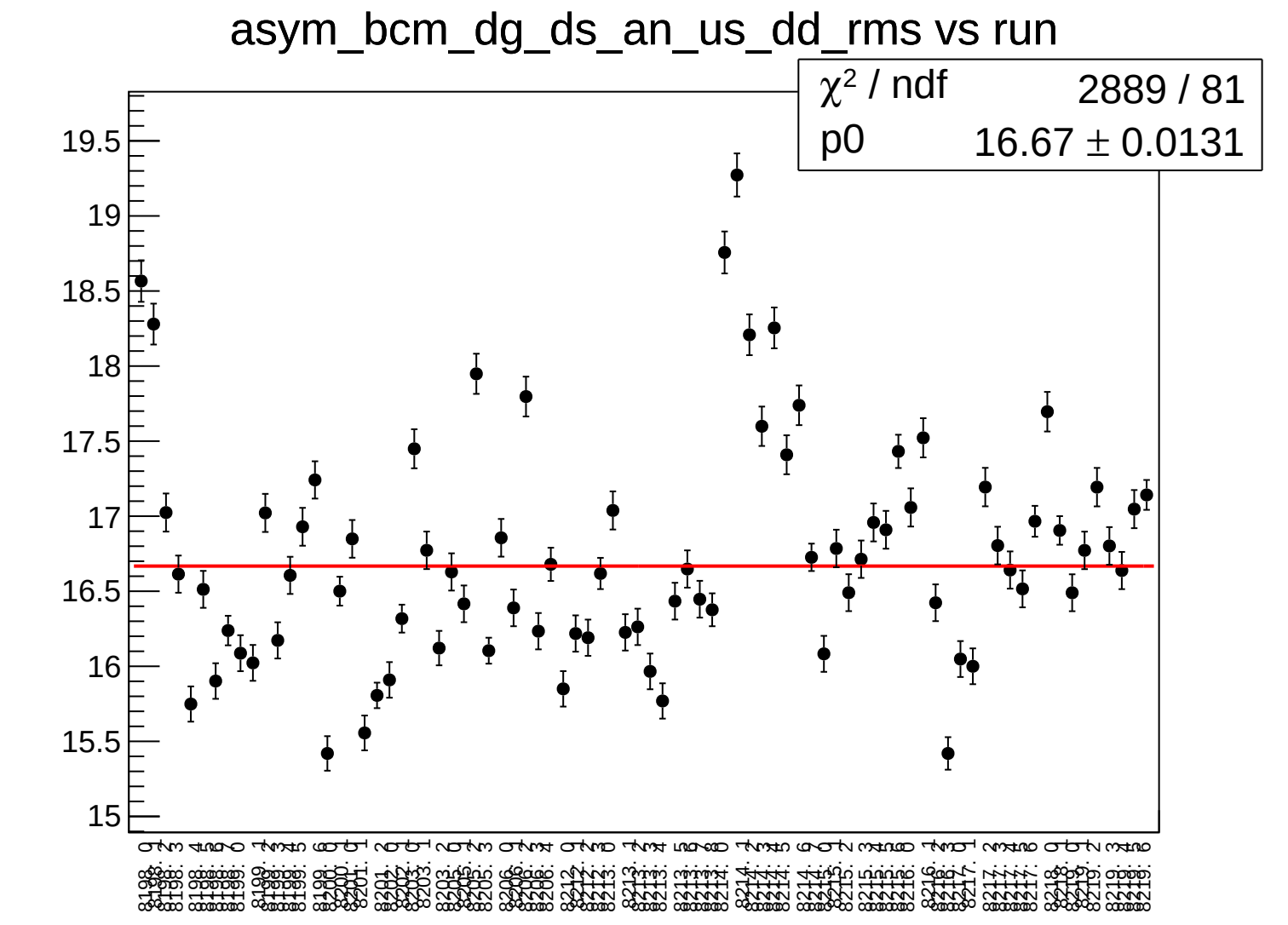

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 29.27 / 81
p0 −197.1± 204.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −826.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

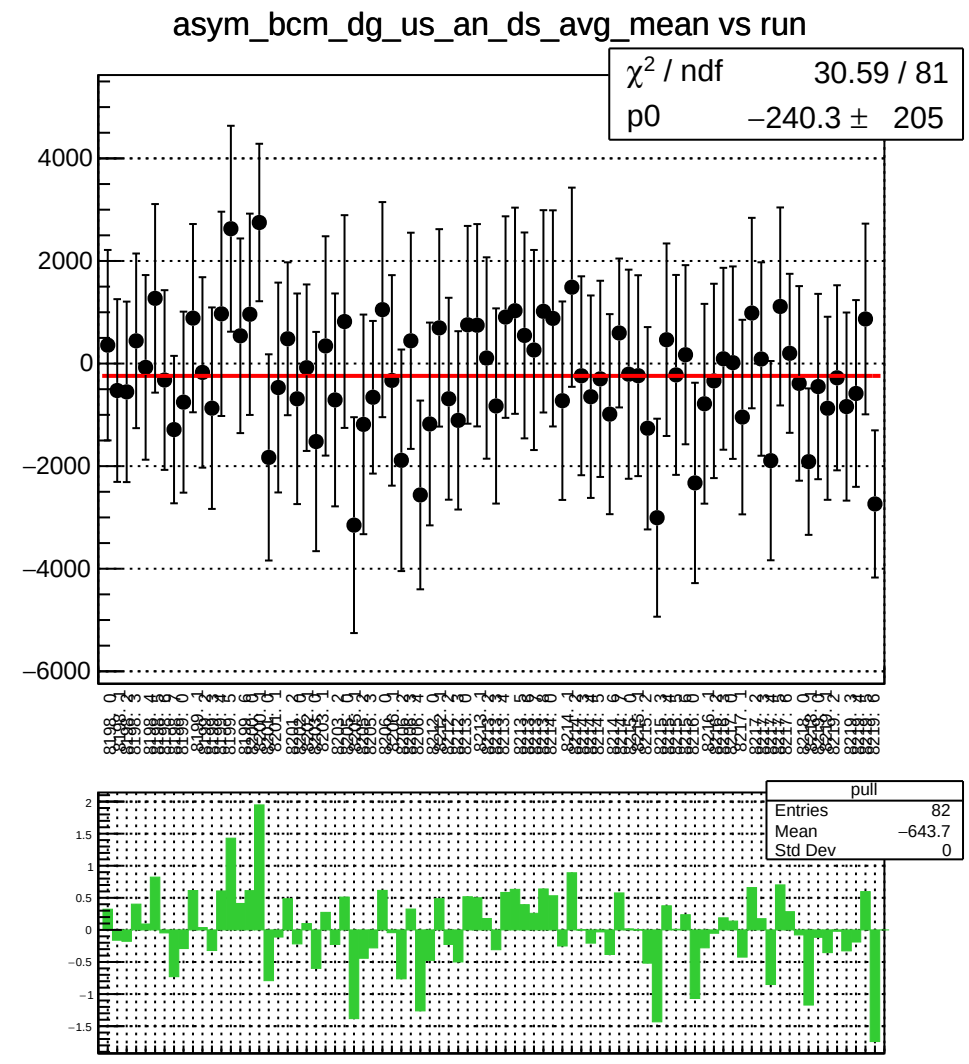

pull1D
Entries 82
Mean 0.003542
Std Dev 0.5974
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

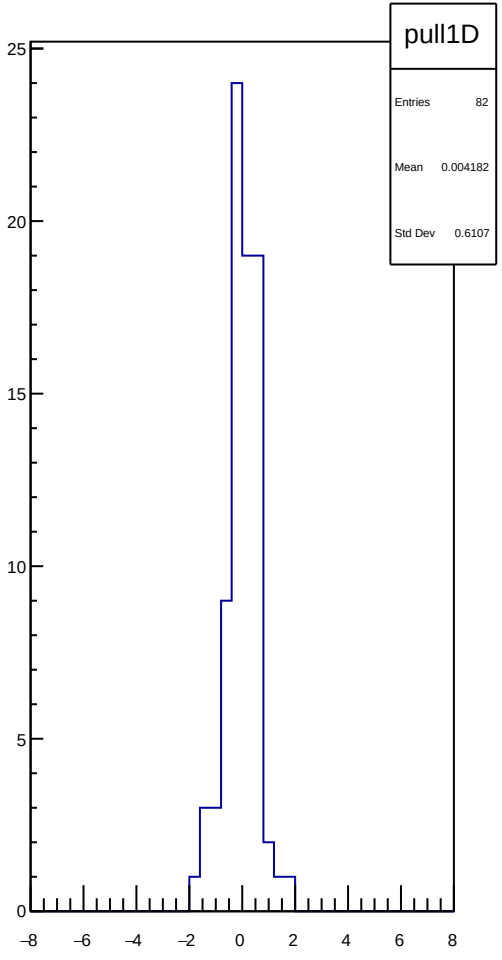

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 5061 / 81
p0 184 ± 0.1448
210
200
190
180
170
160

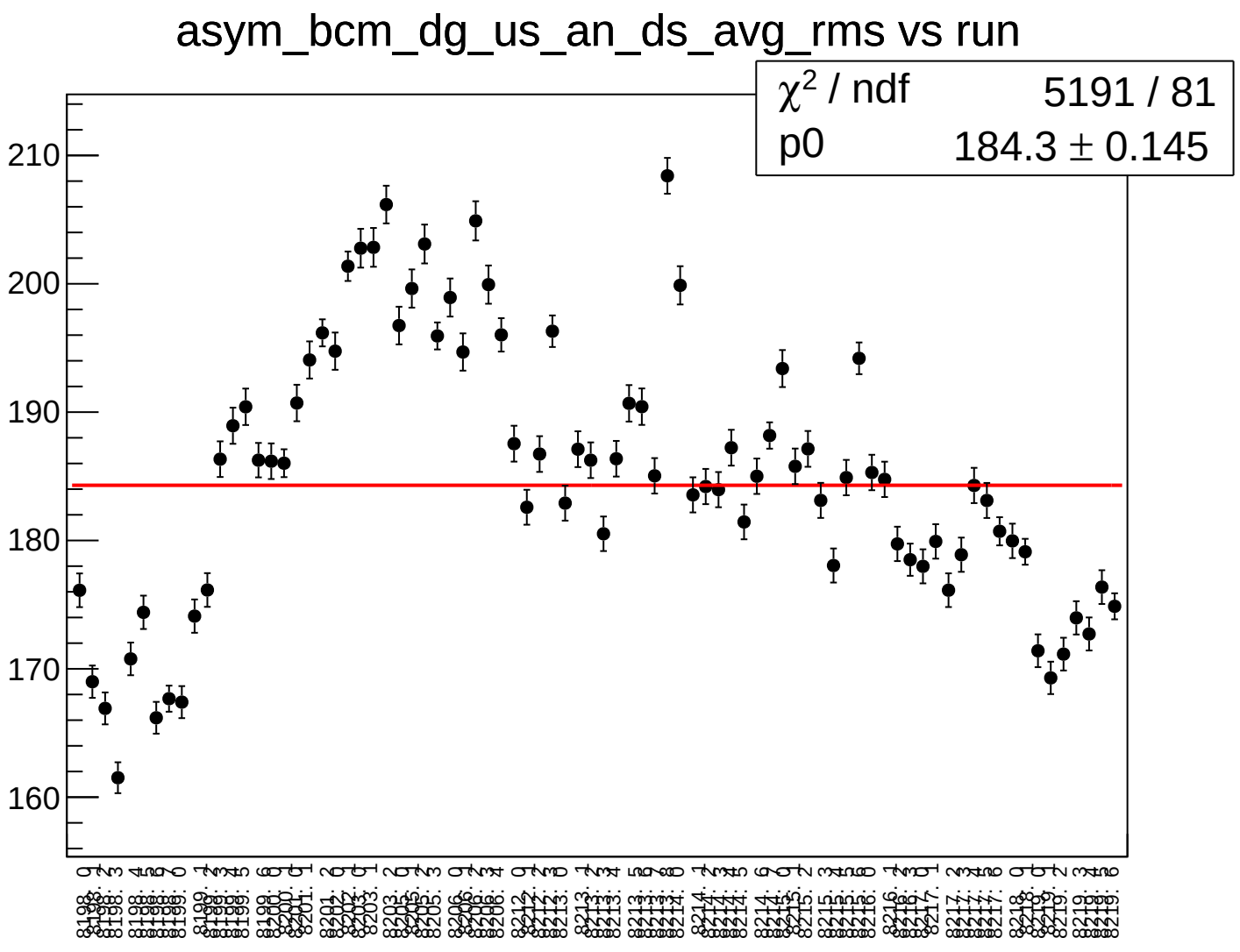

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 89.48 / 81
p0 20.25 ± 18.53
pull
Entries 82
Mean 540
Std Dev 0

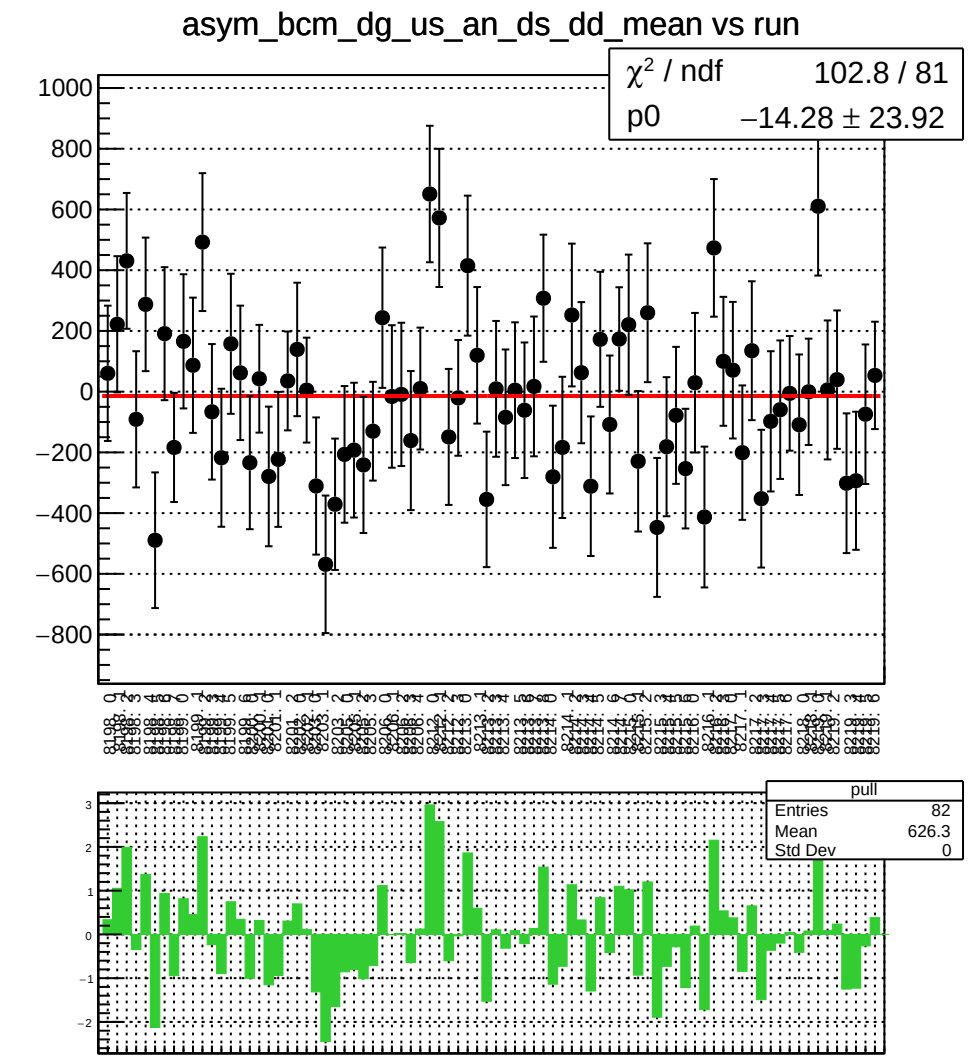

pull1D
Entries 82
Mean −0.003403
Std Dev 1.045

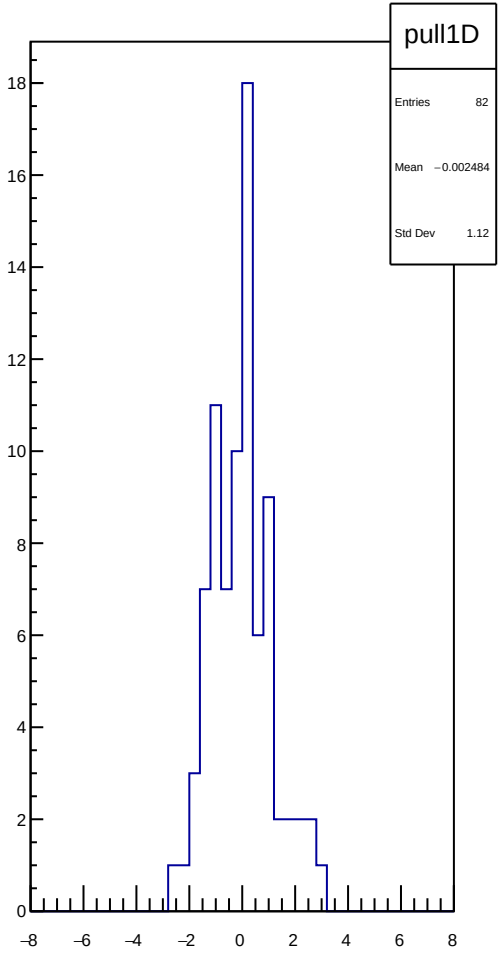

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 2889 / 81
p0 16.67 ± 0.0131
19.5
19
18.5
18
17.5
17
16.5
16
15.5
15

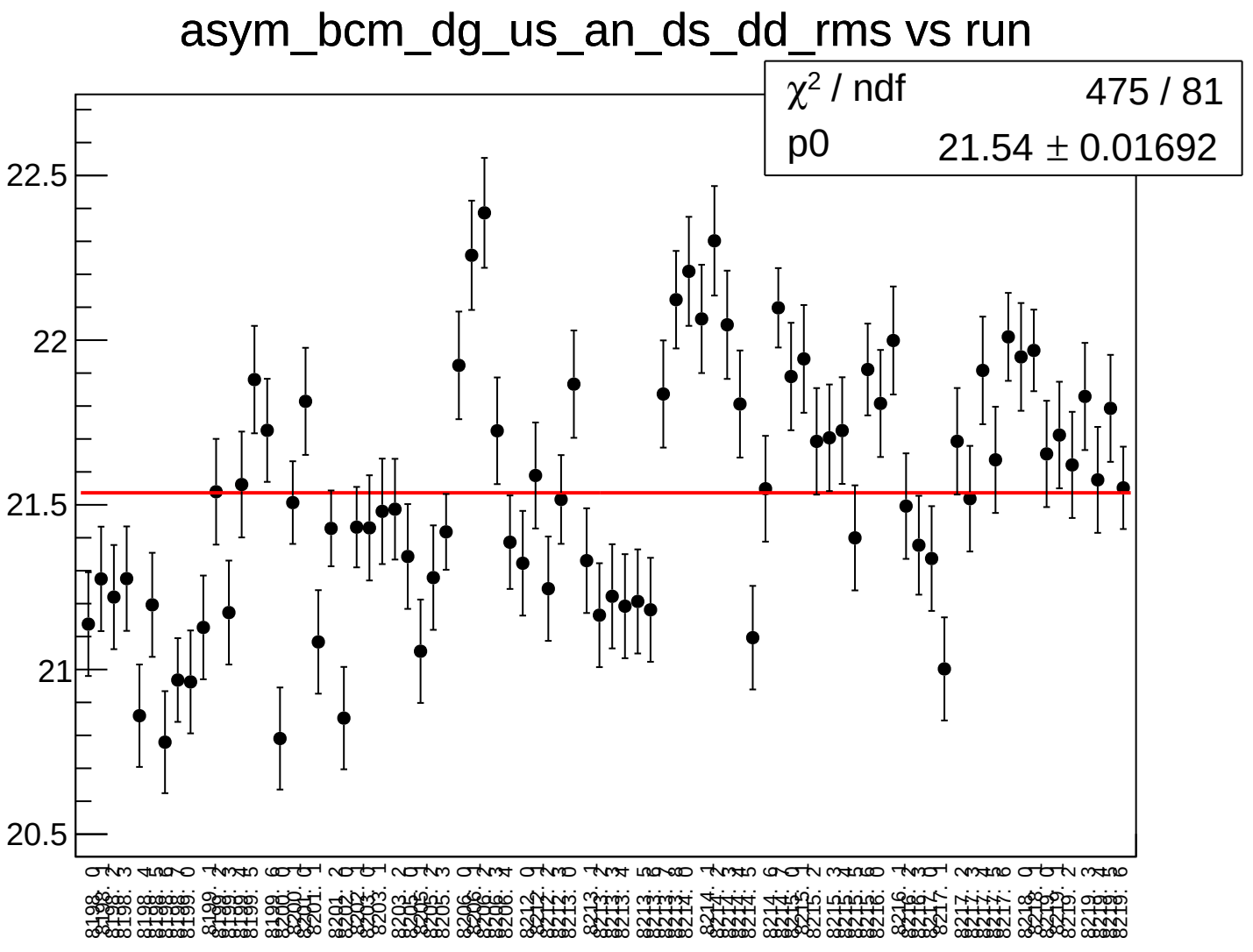

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 30.59 / 81
p0 −240.3 ± 205
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −643.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

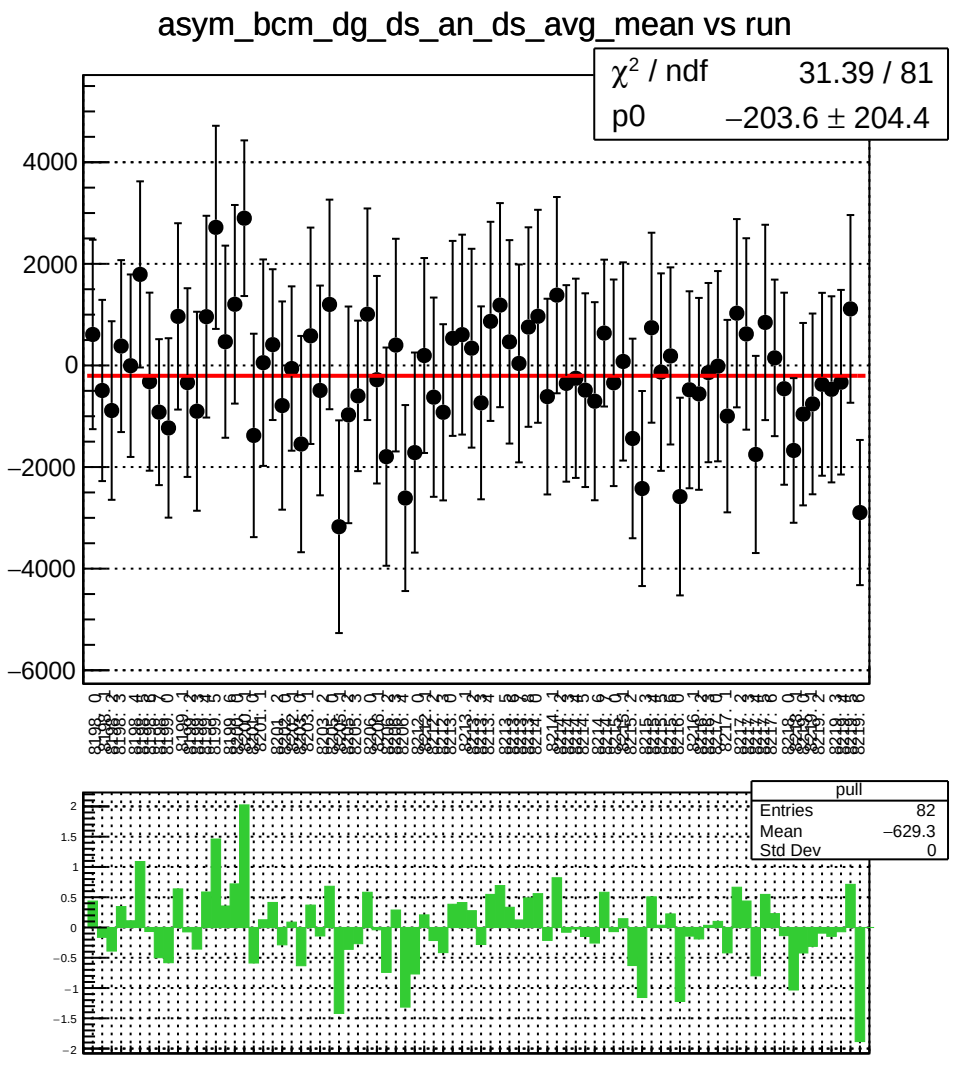

pull1D
Entries 82
Mean 0.004182
Std Dev 0.6107
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

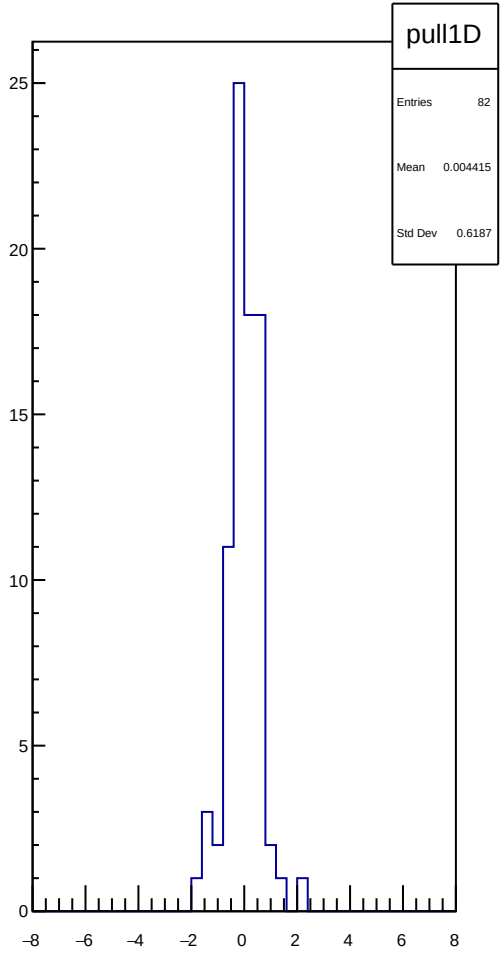

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 5191 / 81
p0 184.3 ± 0.145
210
200
190
180
170
160

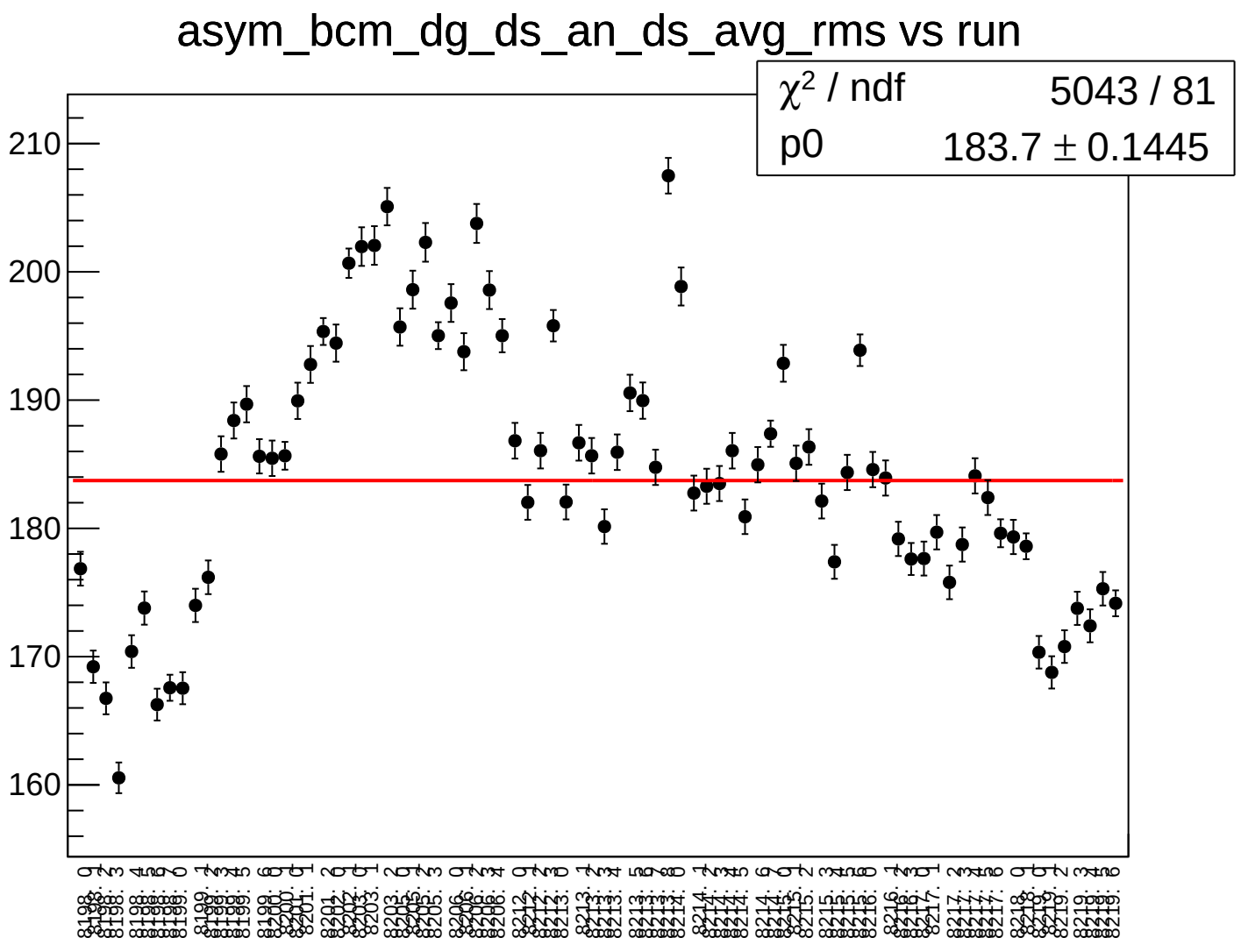

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 102.8 / 81
p0 −14.28 ± 23.92
pull
Entries 82
Mean 626.3
Std Dev 0

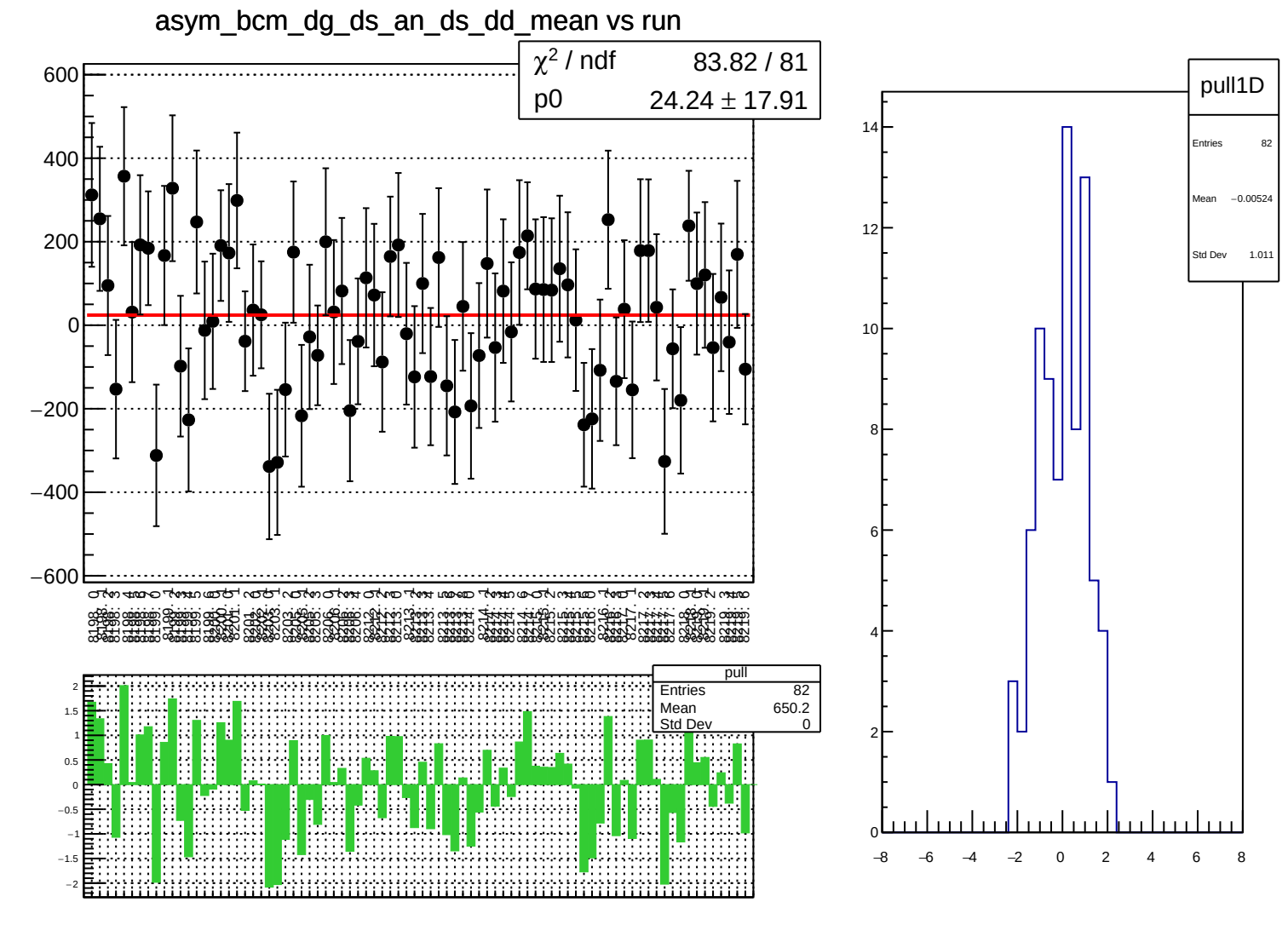

pull1D
Entries 82
Mean −0.002484
Std Dev 1.12

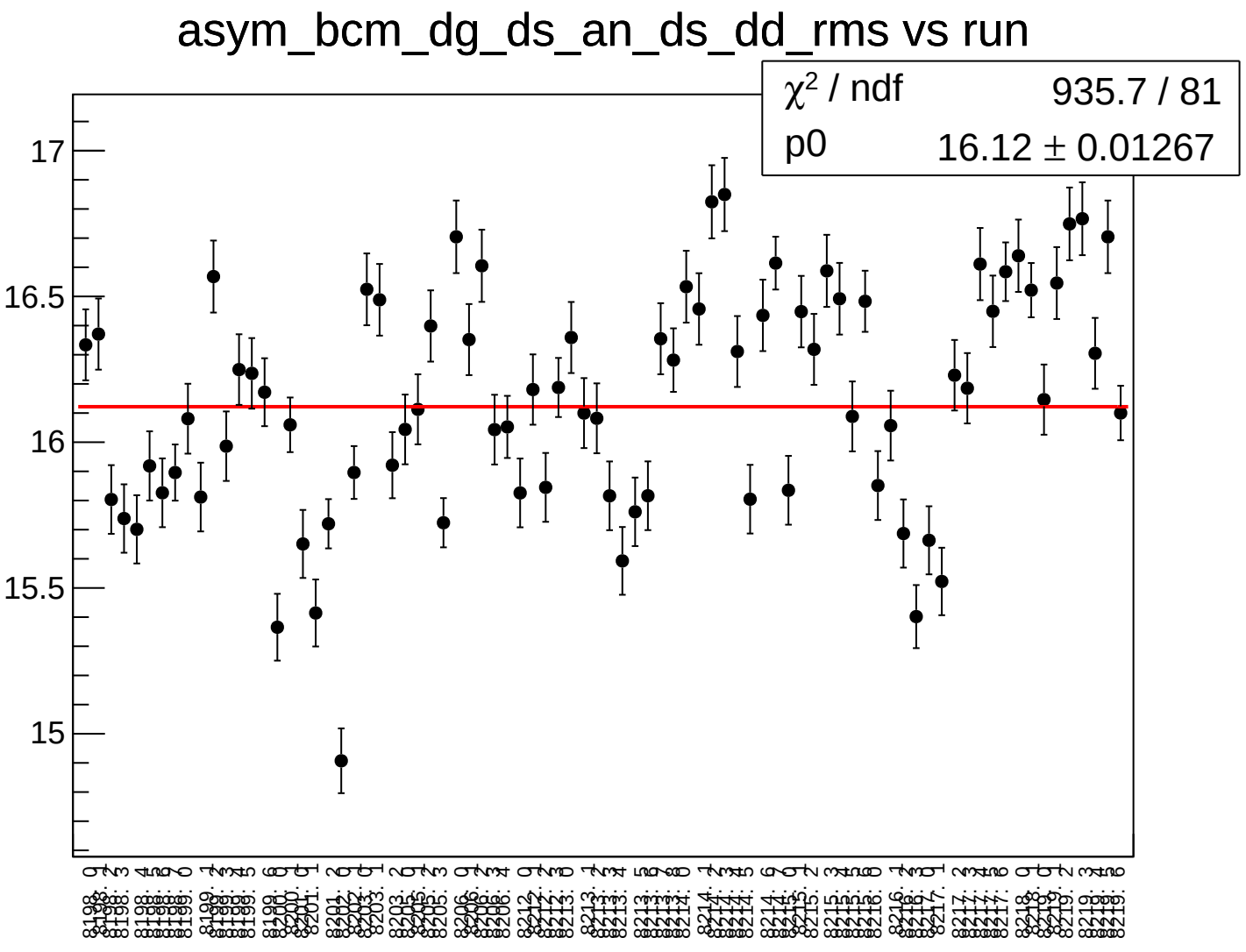

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 475 / 81
p0 21.54 ± 0.01692
22.5
22
21.5
21
20.5

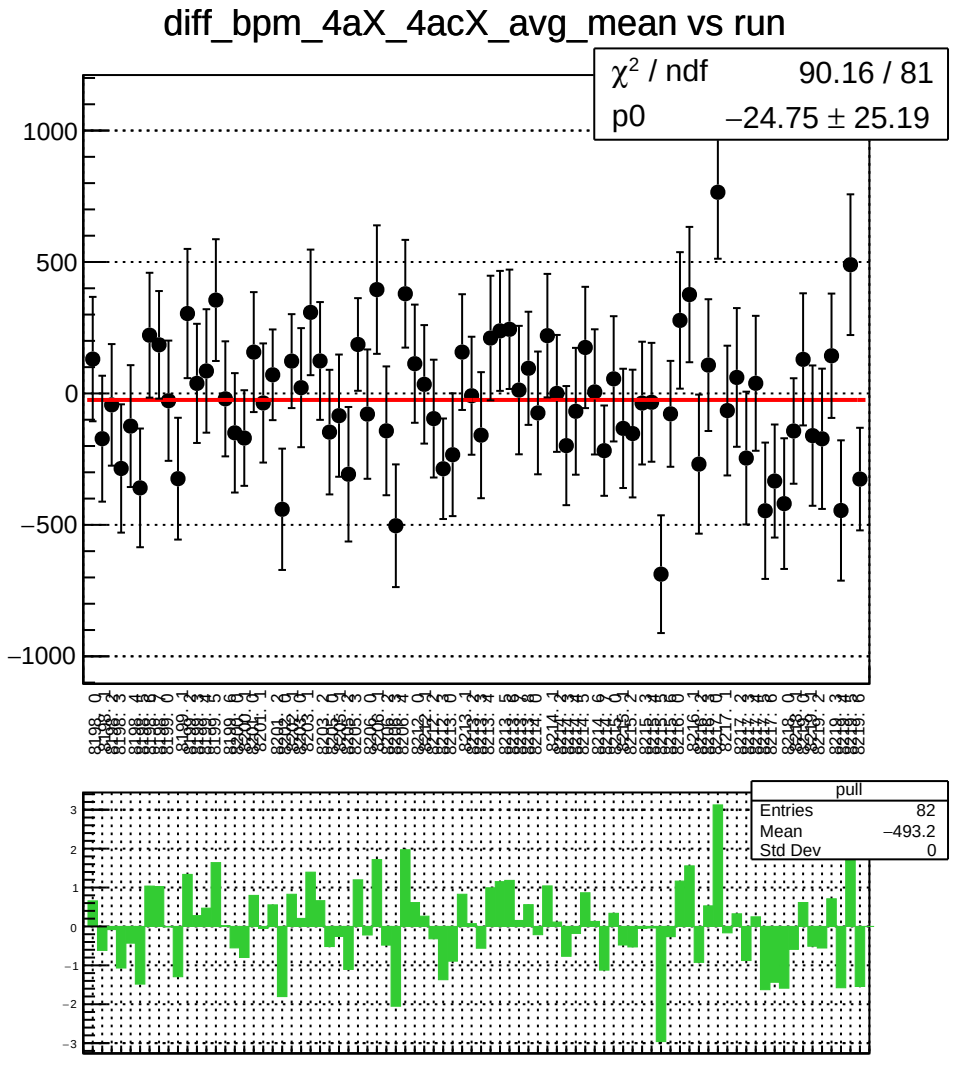

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 31.39 / 81
p0 −203.6 ± 204.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −629.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

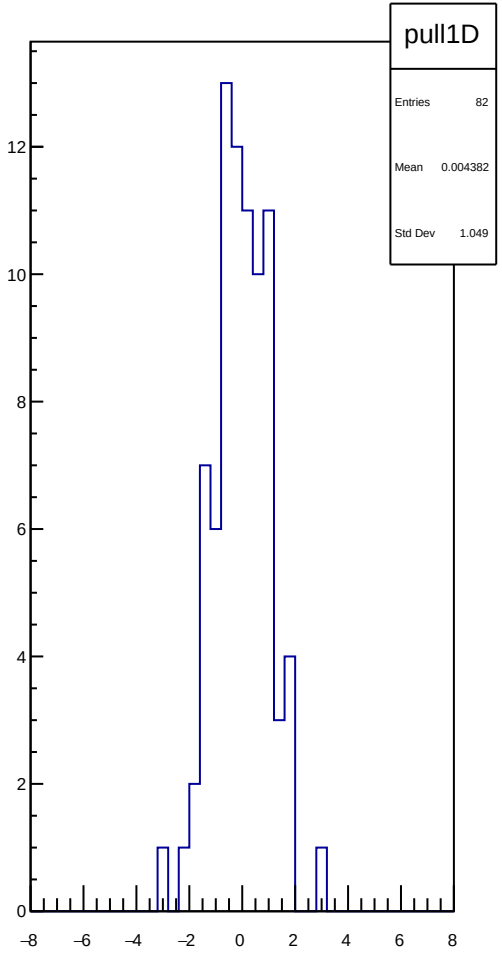

pull1D
Entries 82
Mean 0.004415
Std Dev 0.6187
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

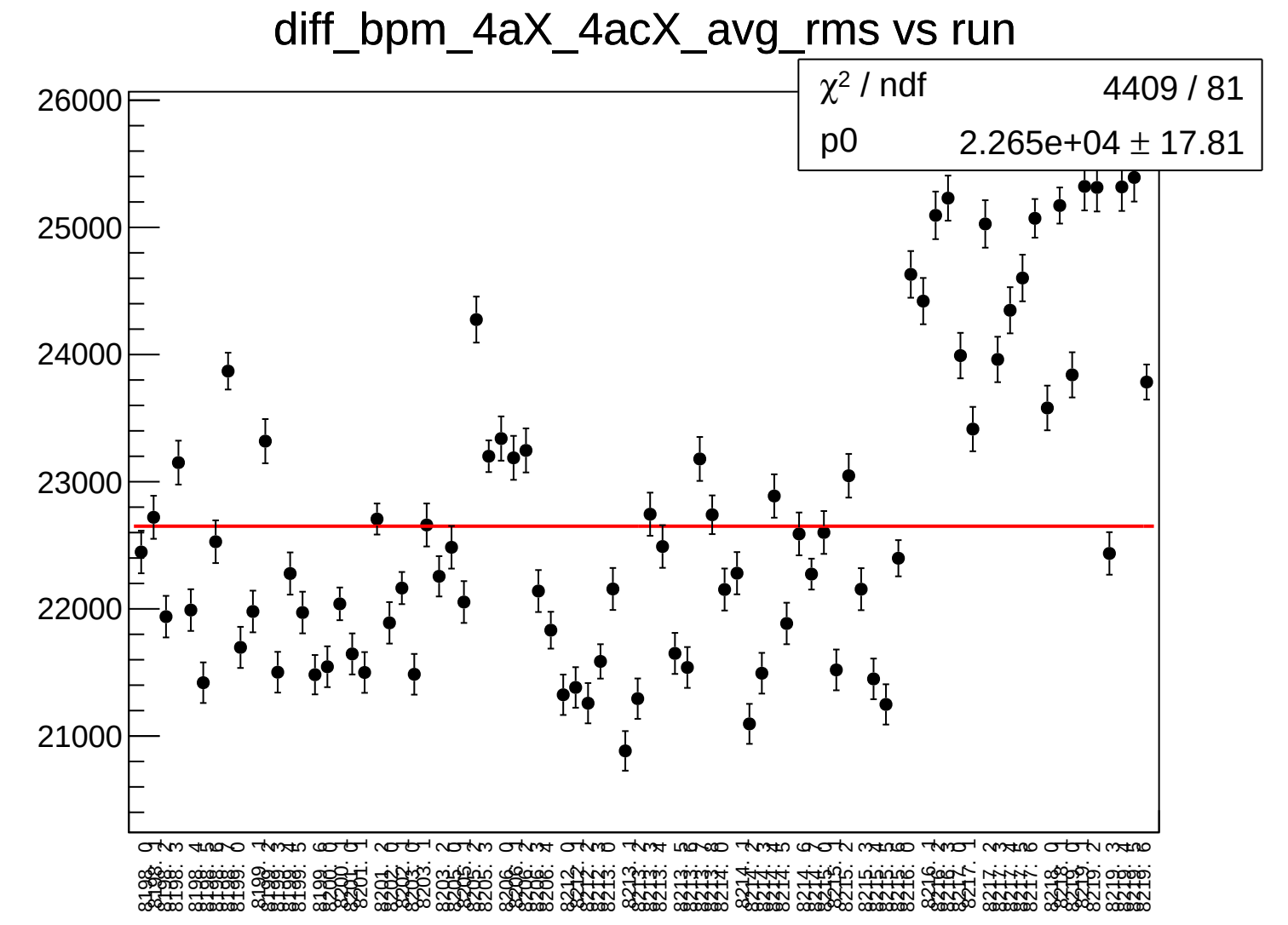

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 5043 / 81
p0 183.7 ± 0.1445
210
200
190
180
170
160

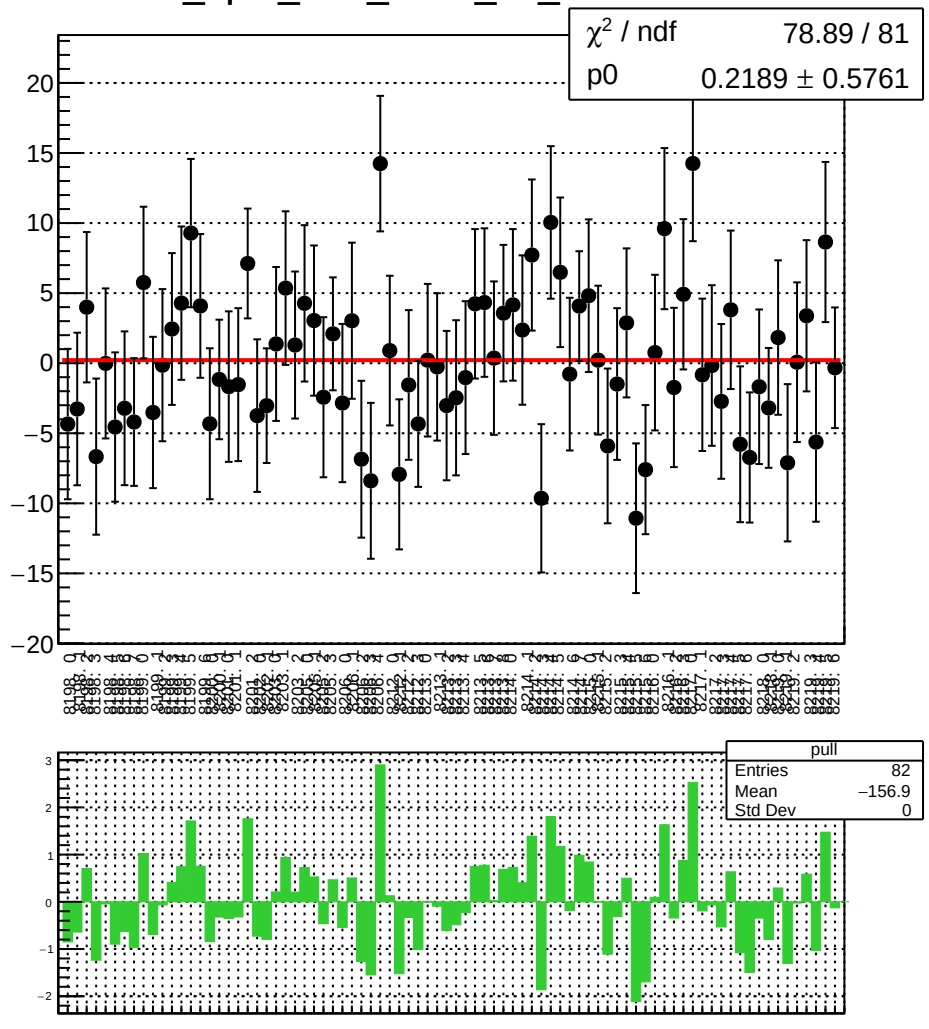

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 83.82 / 81
p0 24.24 ± 17.91
pull
Entries 82
Mean 650.2
Std Dev 0
pull1D
Entries 82
Mean −0.00524
Std Dev 1.011

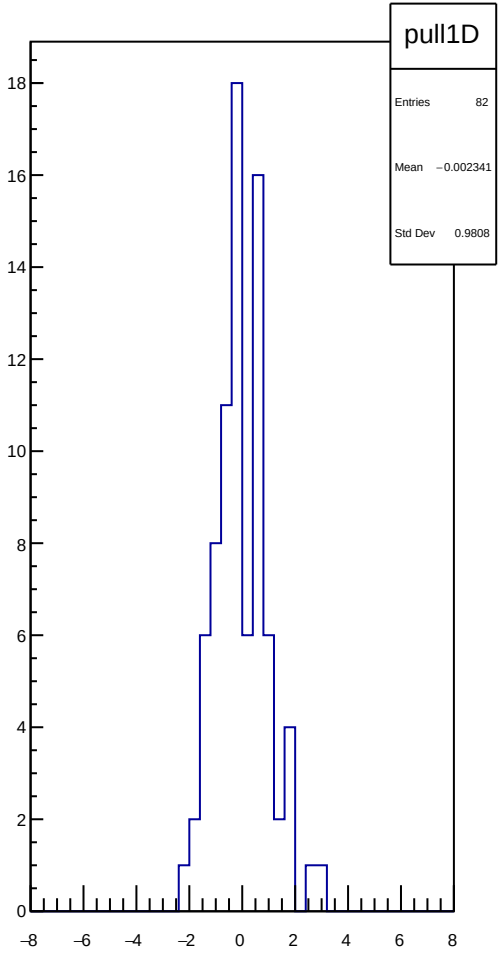

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 935.7 / 81
p0 16.12 ± 0.01267
17
16.5
16
15.5
15

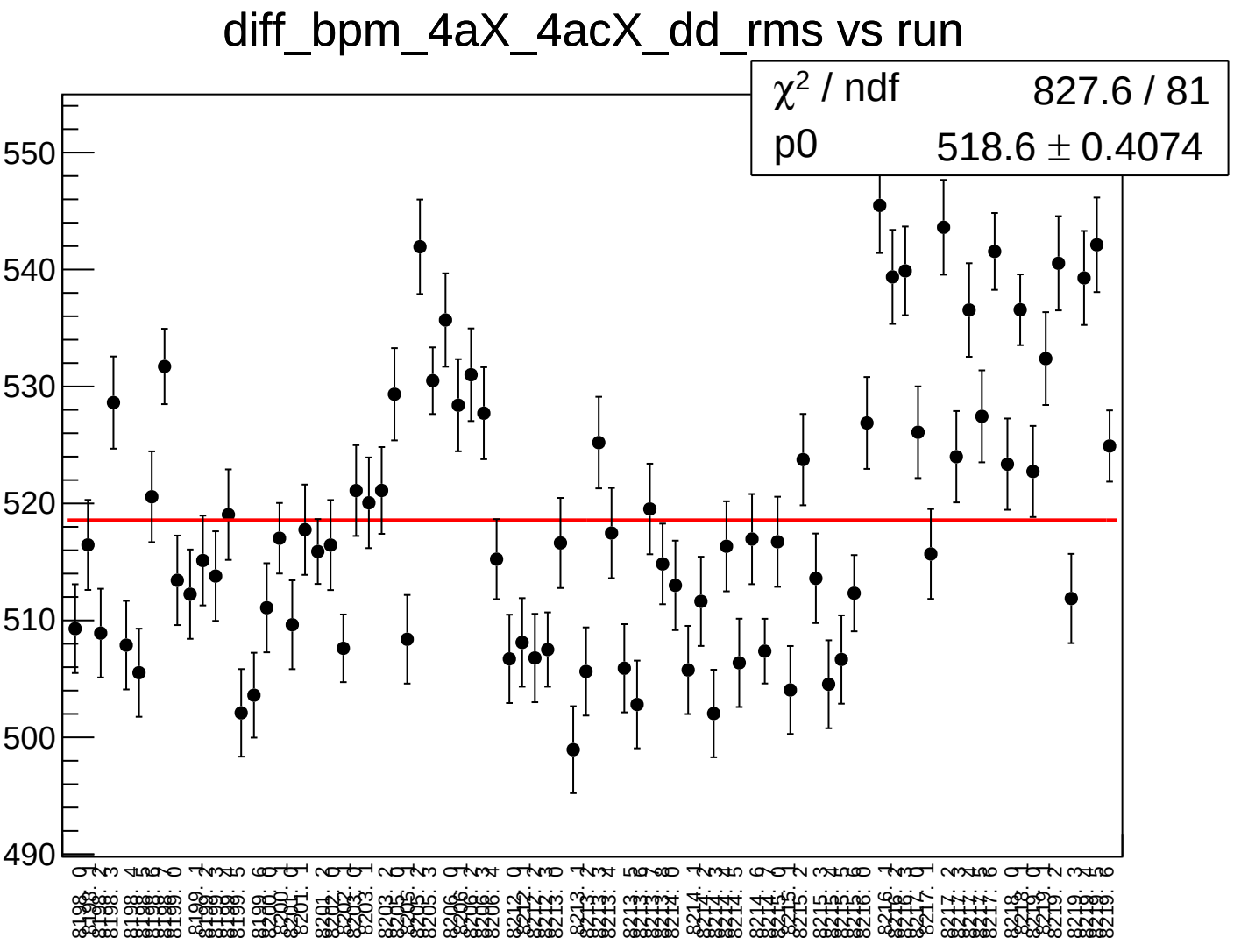

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 90.16 / 81
p0 −24.75 ± 25.19
1000
500
0
−500
−1000
pull
Entries 82
Mean −493.2
Std Dev 0
3
2
1
0
−1
−2
−3

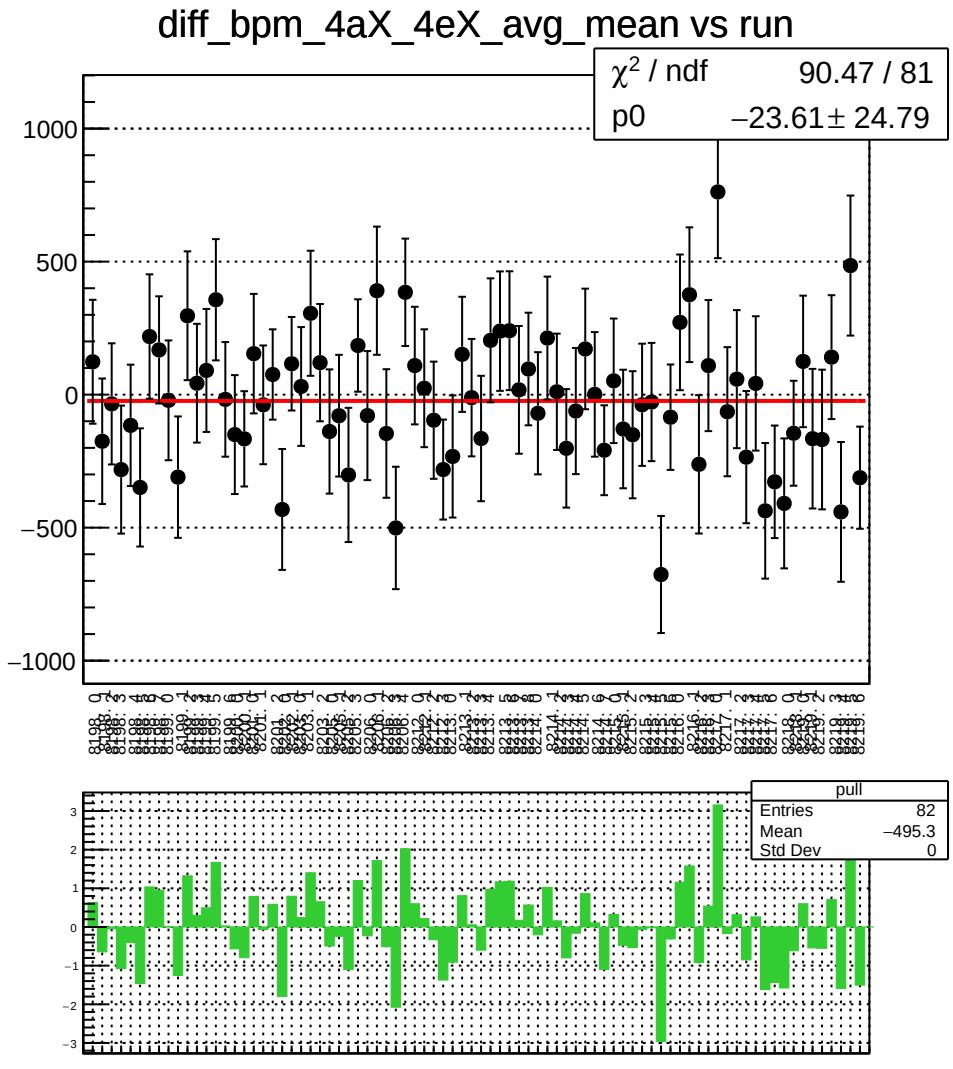

pull1D
Entries 82
Mean 0.004382
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

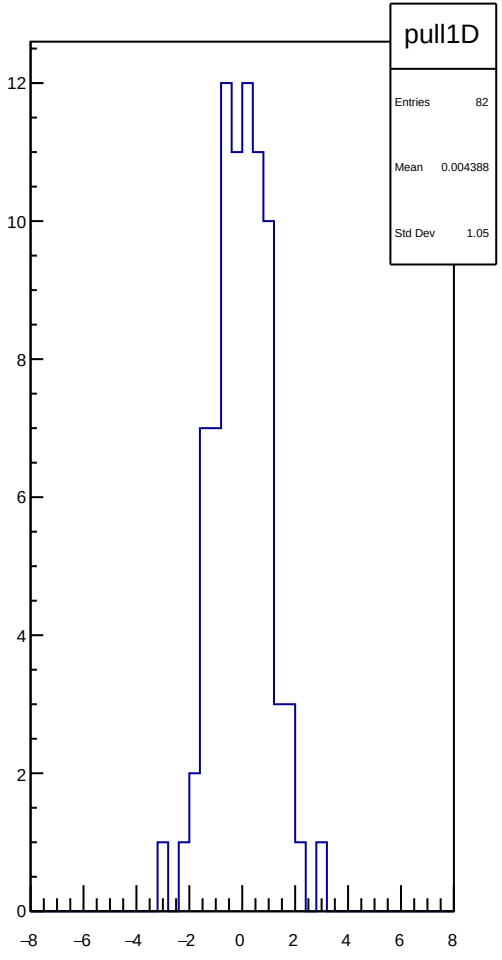

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 4409 / 81
p0 2.265e+04 ± 17.81
26000
25000
24000
23000
22000
21000

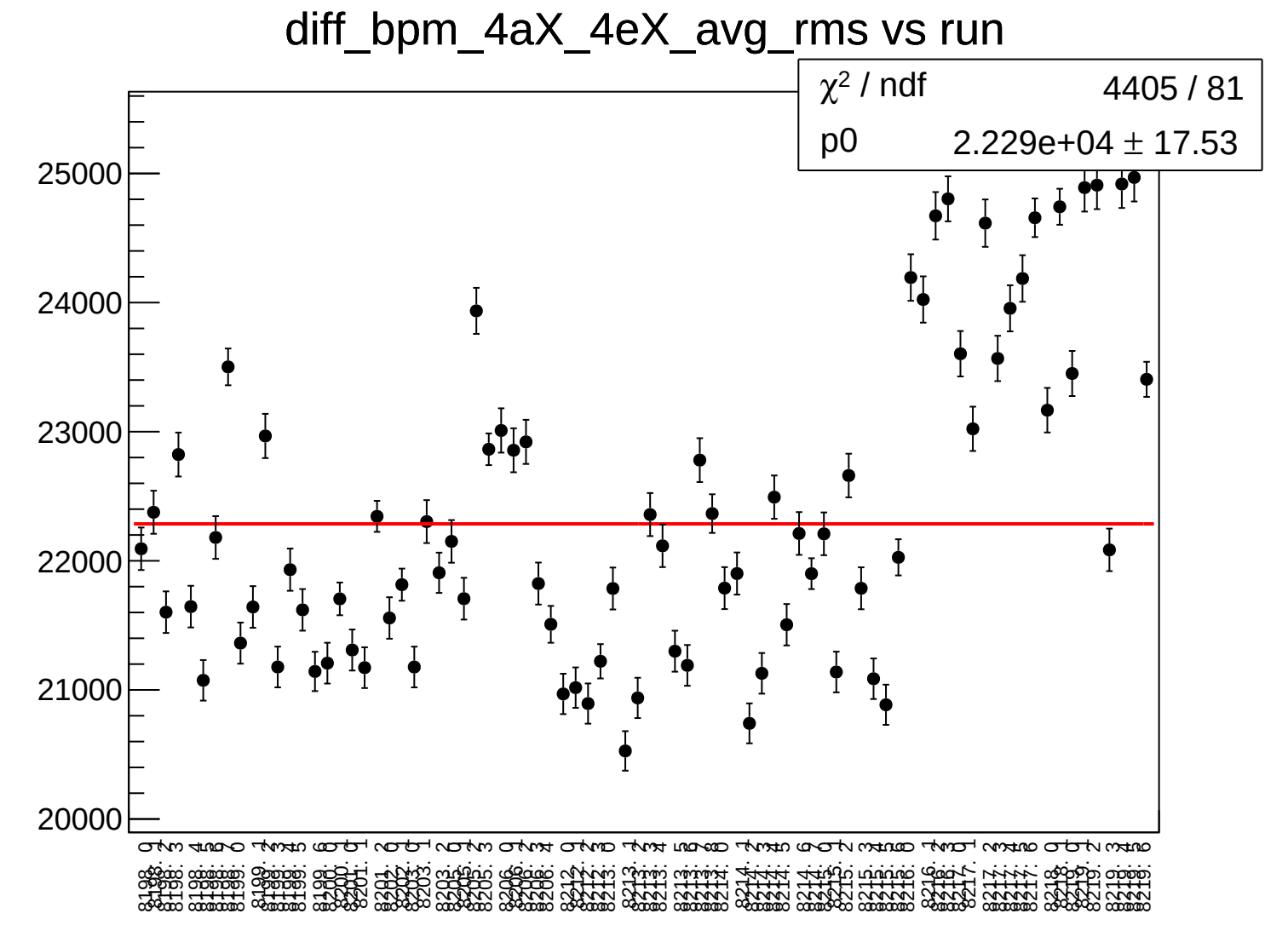

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 78.89 / 81
p0 0.2189 ± 0.5761
pull
Entries 82
Mean −156.9
Std Dev 0

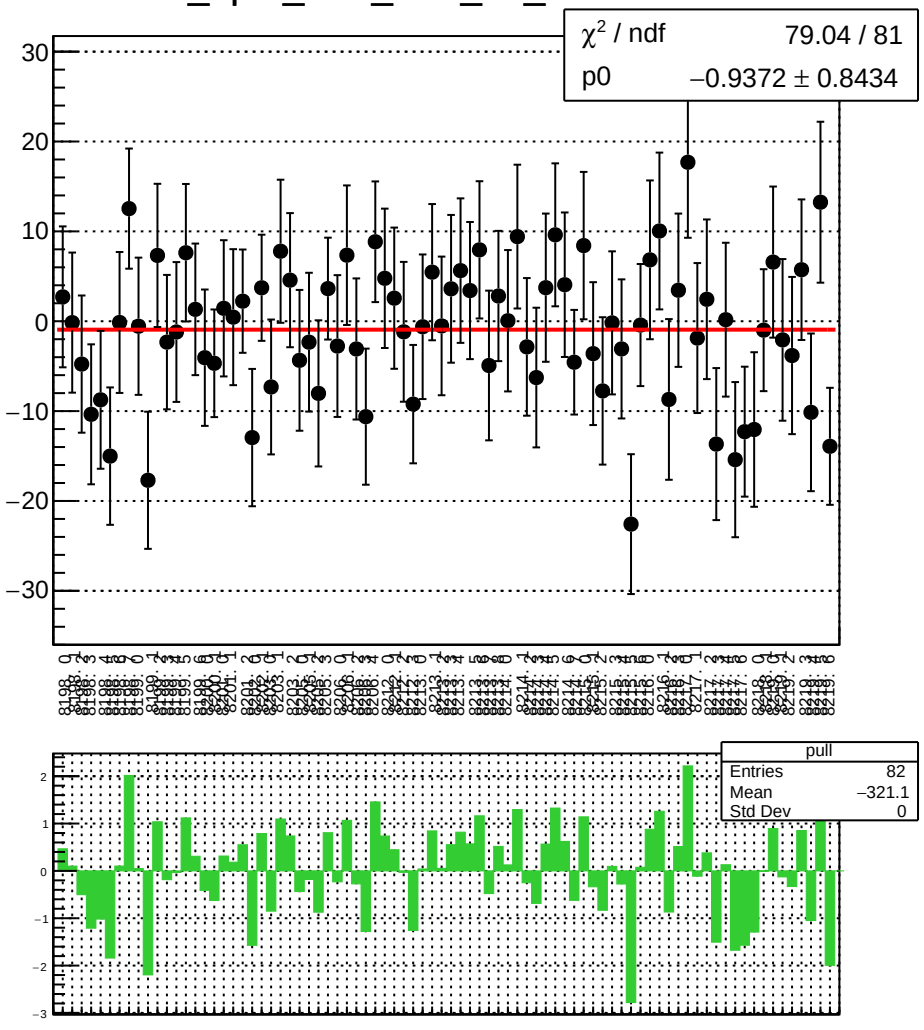

pull1D
Entries 82
Mean −0.002341
Std Dev 0.9808

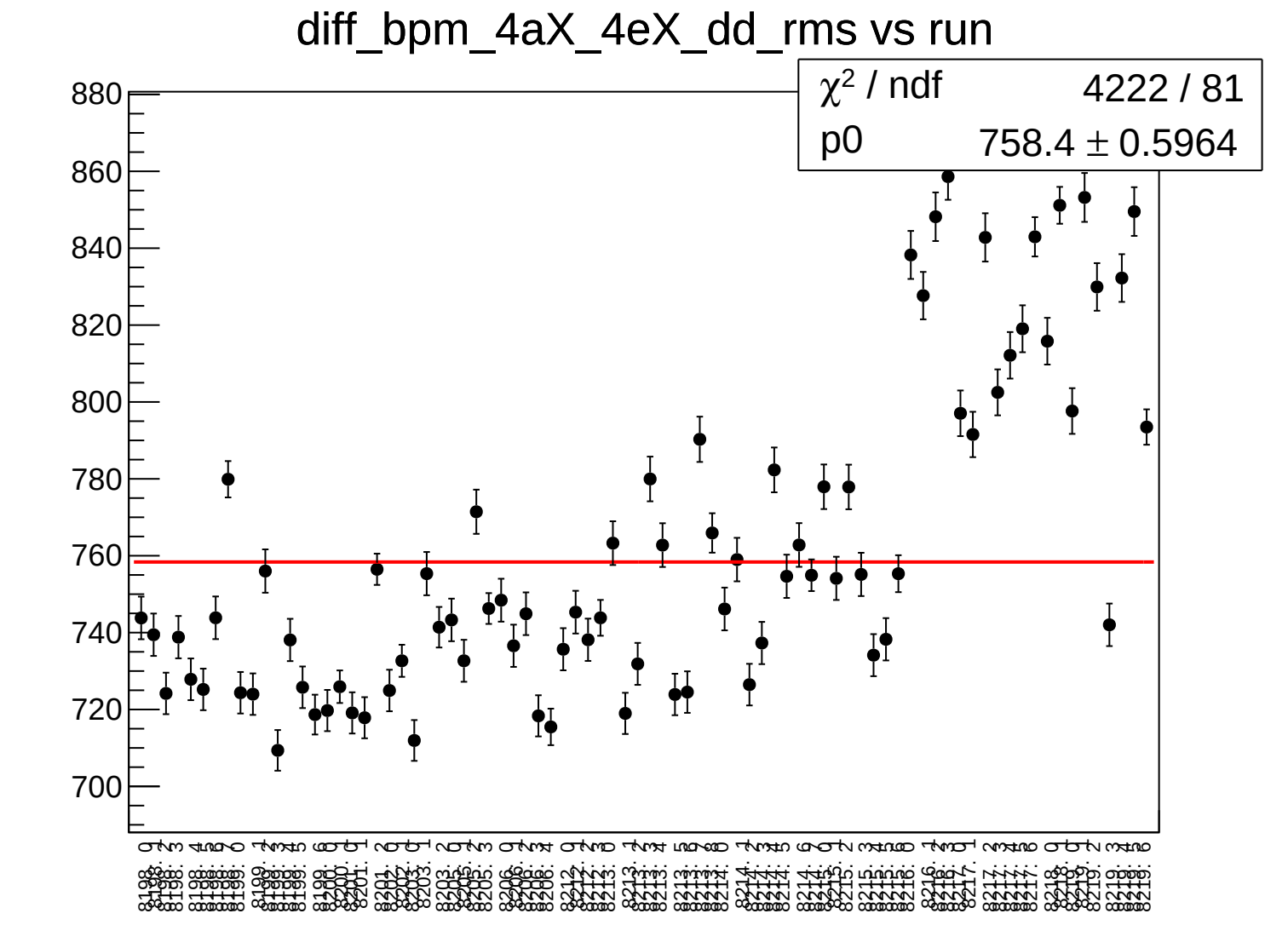

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 827.6 / 81
p0 518.6 ± 0.4074
550
540
530
520
510
500
490

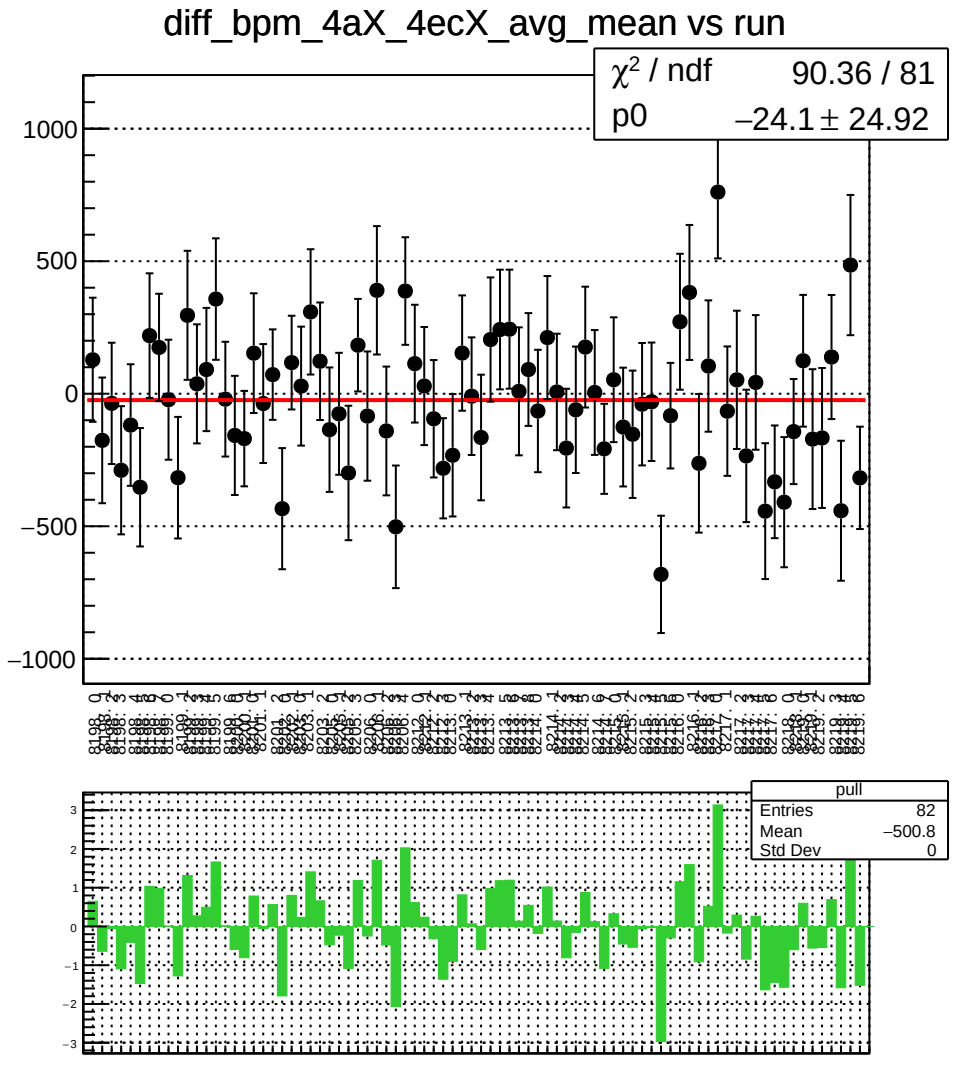

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 90.47 / 81
p0 −23.61 ± 24.79
1000
500
0
−500
−1000
pull
Entries 82
Mean −495.3
Std Dev 0
3
2
1
0
−1
−2
−3

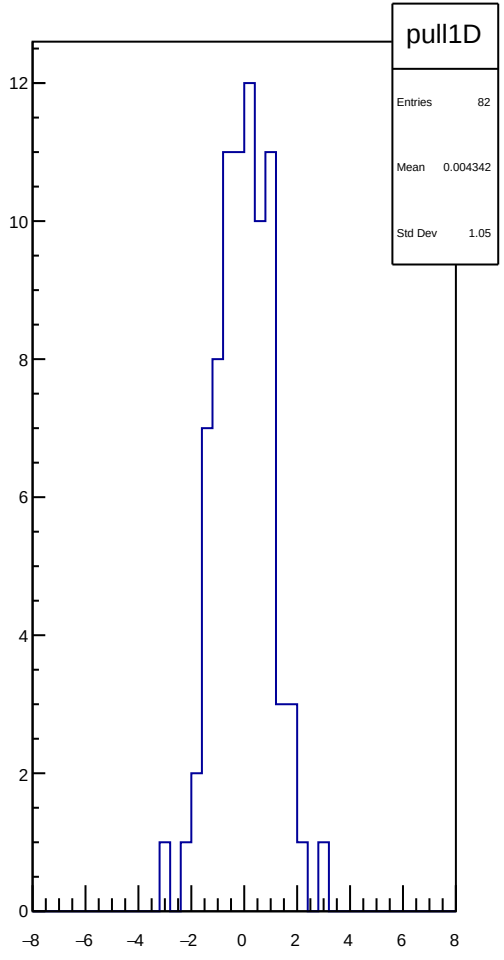

pull1D
Entries 82
Mean 0.004388
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

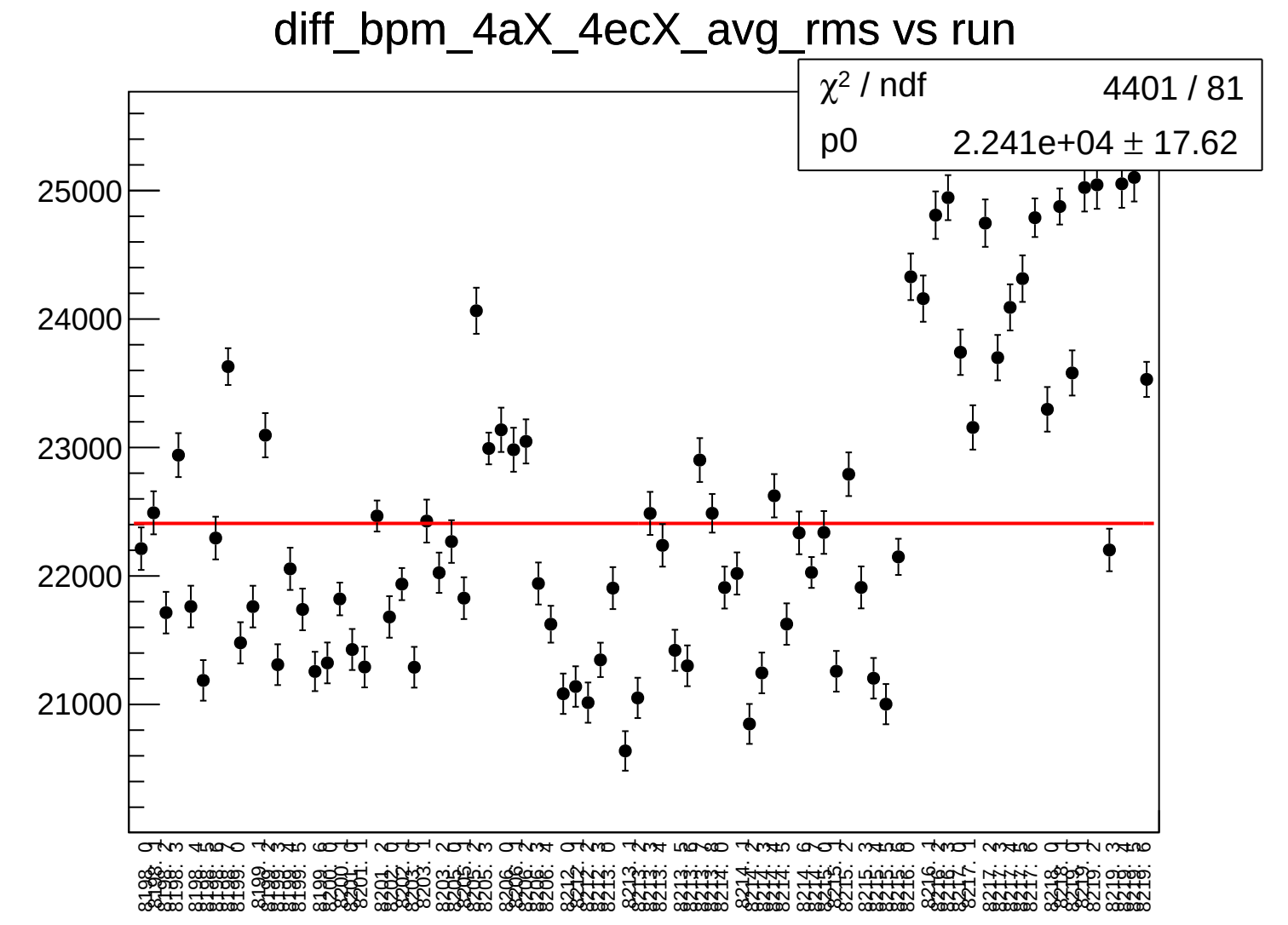

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 4405 / 81
p0 2.229e+04 ± 17.53
25000
24000
23000
22000
21000
20000

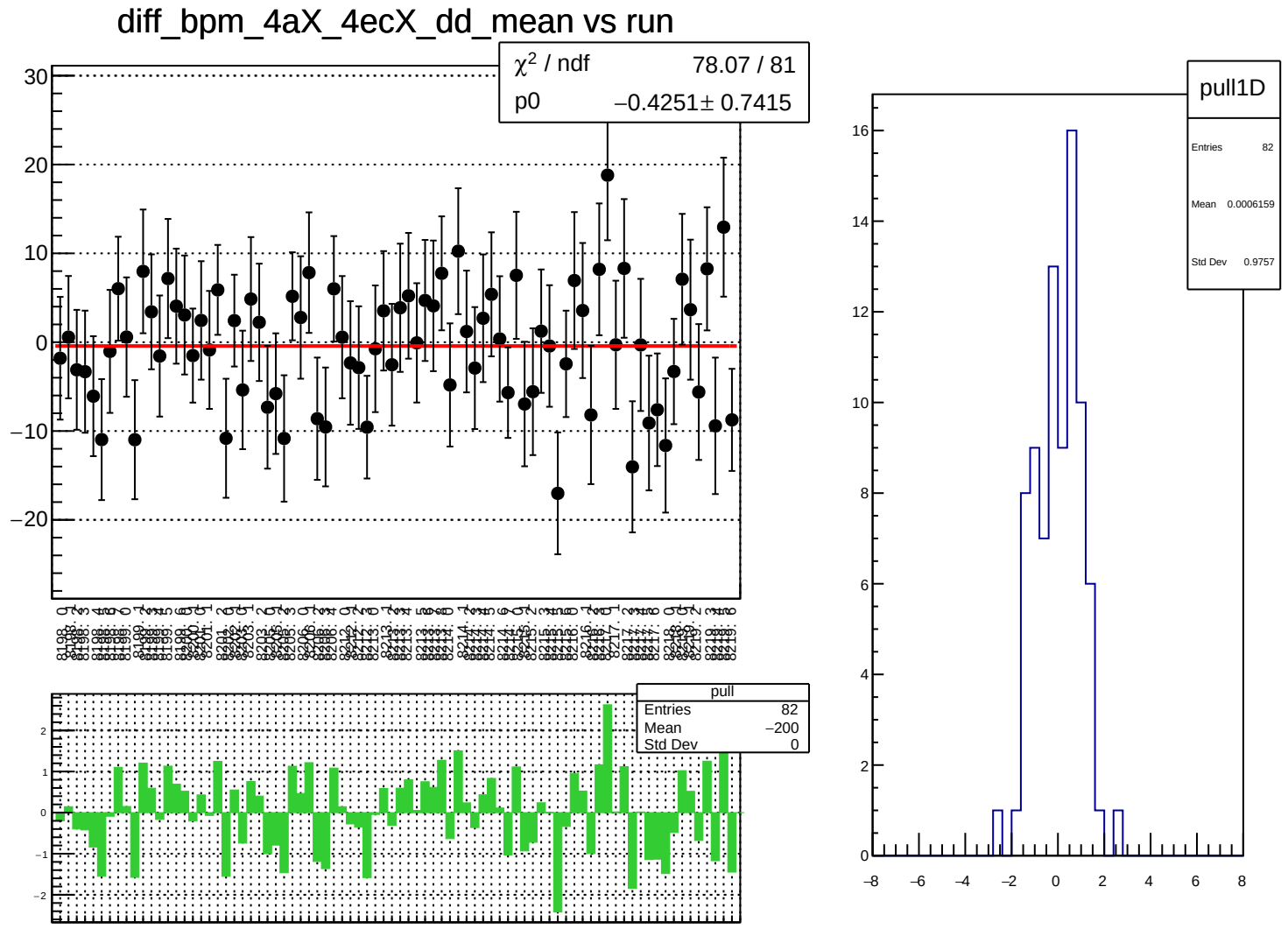

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 79.04 / 81
p0 −0.9372 ± 0.8434
pull
Entries 82
Mean −321.1
Std Dev 0
pull1D
Entries 82
Mean 0.001271
Std Dev 0.9818

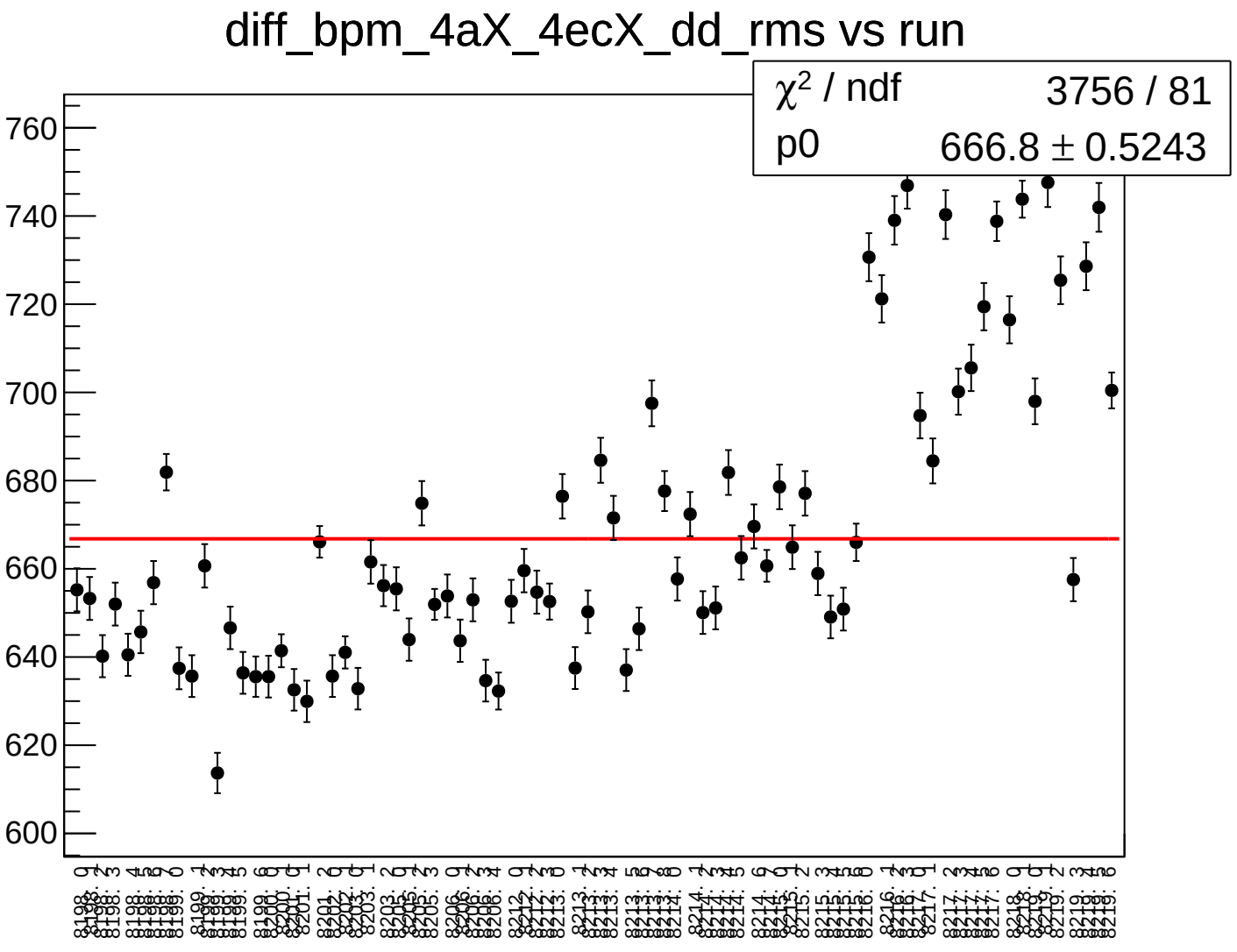

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 4222 / 81
p0 758.4 ± 0.5964
880
860
840
820
800
780
760
740
720
700

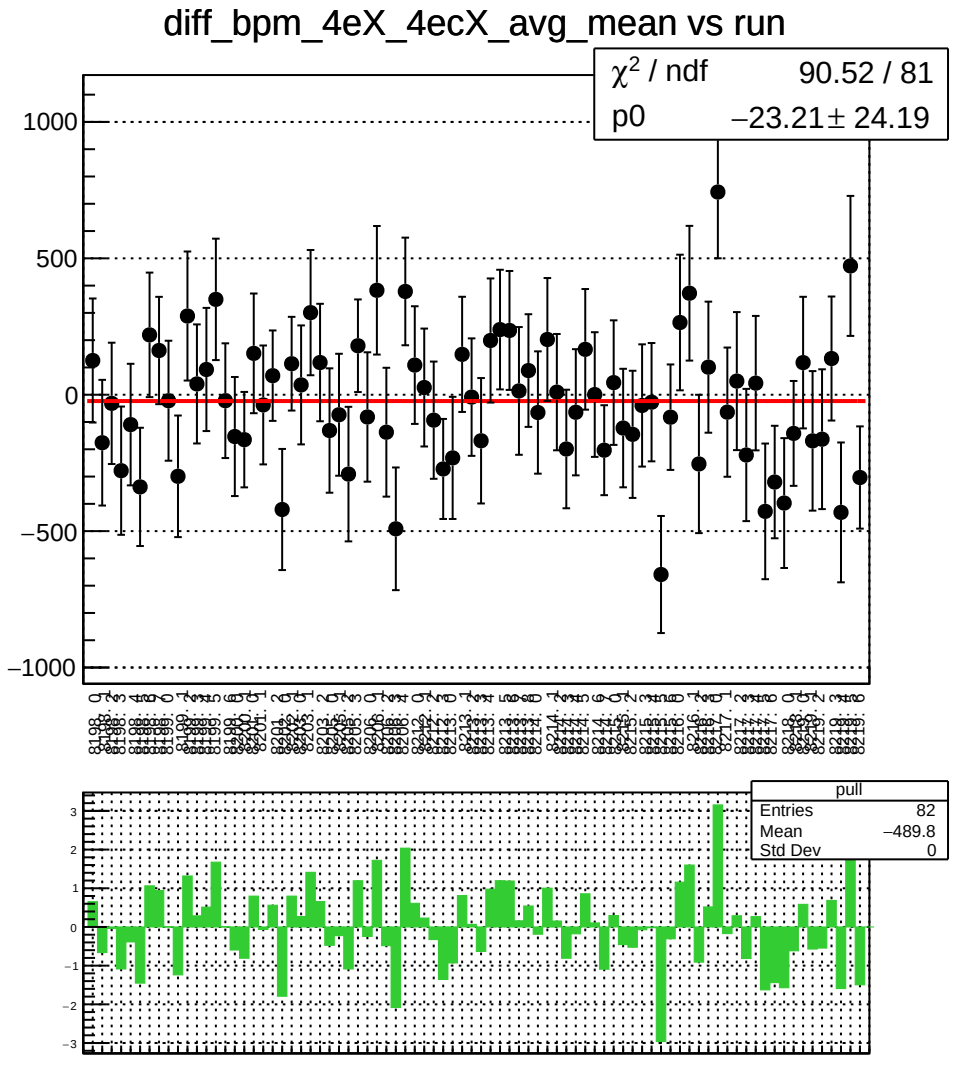

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 90.36 / 81
p0 –24.1 ± 24.92
1000
500
0
–500
–1000
pull
Entries 82
Mean –500.8
Std Dev 0
3
2
1
0
–1
–2
–3

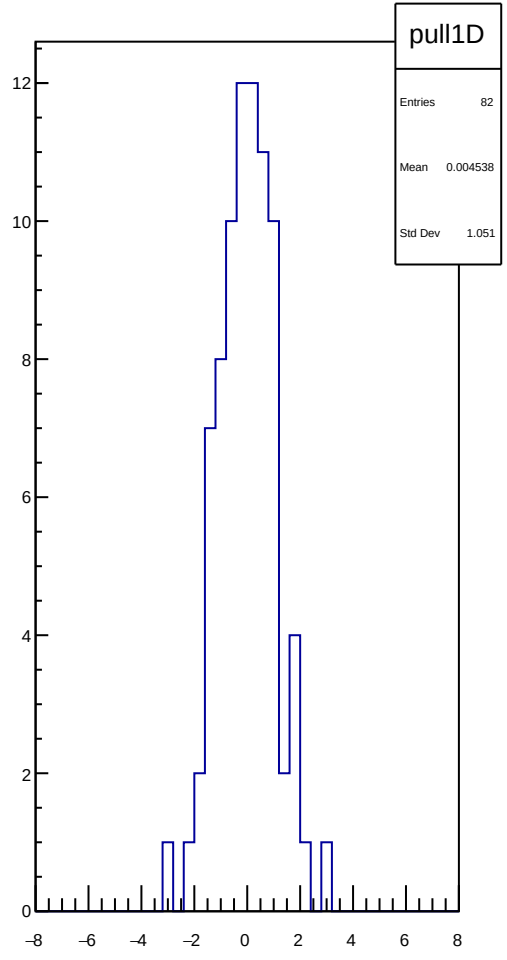

pull1D
Entries 82
Mean 0.004342
Std Dev 1.05
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

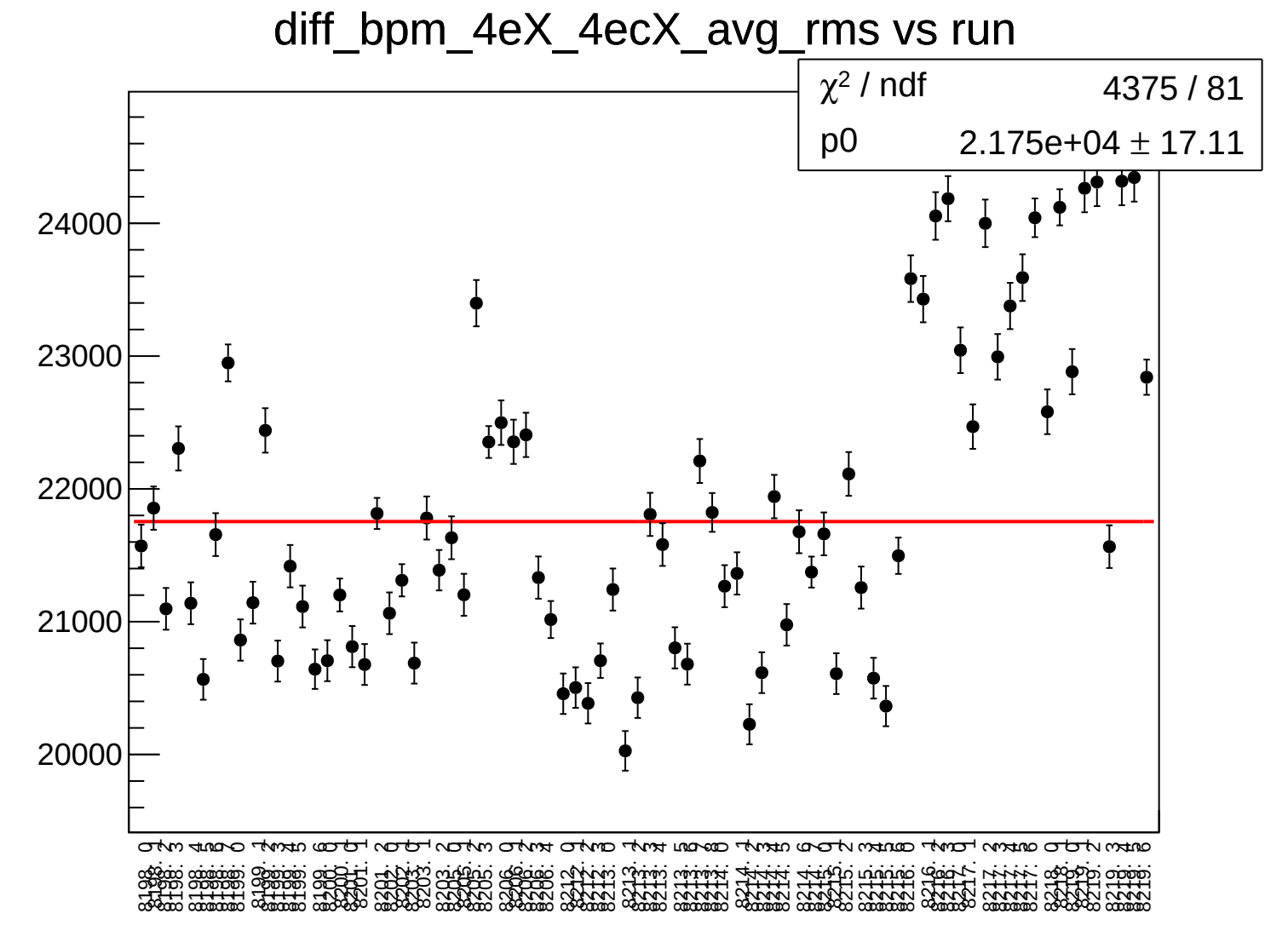

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 4401 / 81
p0 2.241e+04 ± 17.62
25000
24000
23000
22000
21000

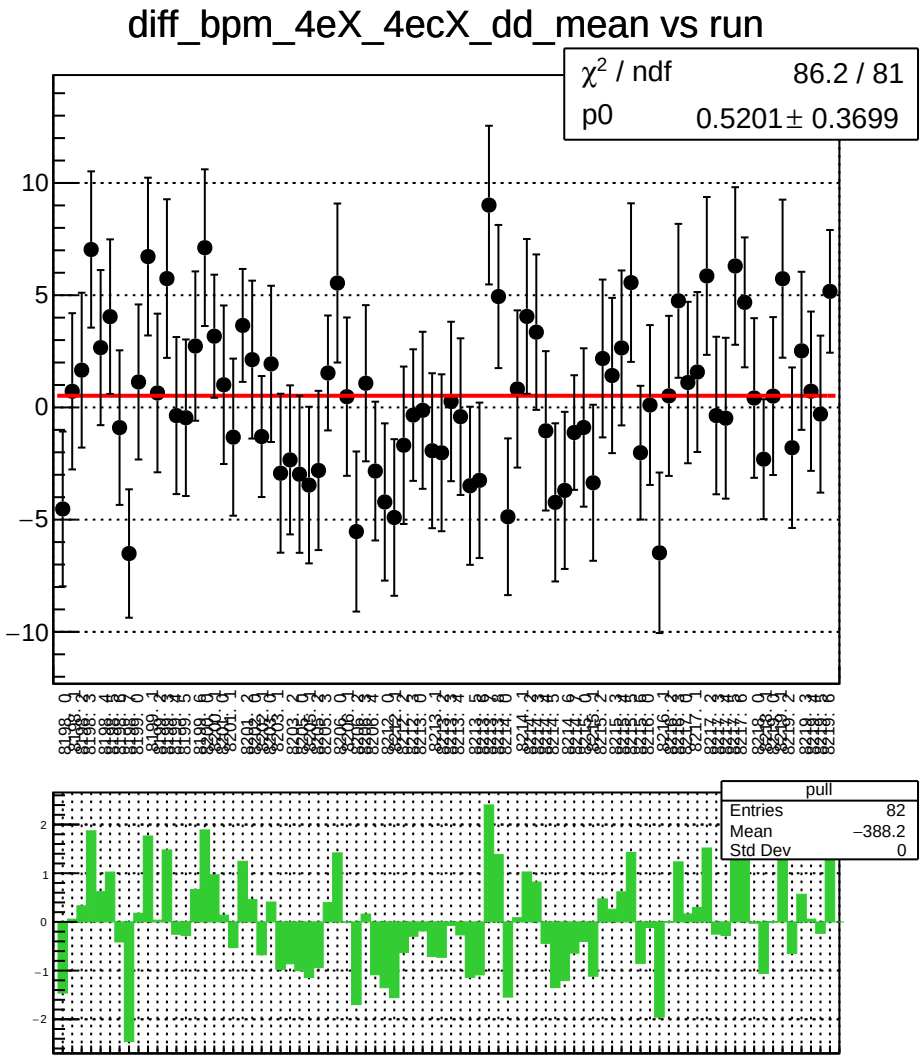

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 78.07 / 81
p0 −0.4251± 0.7415
pull
Entries 82
Mean −200
Std Dev 0
pull1D
Entries 82
Mean 0.0006159
Std Dev 0.9757

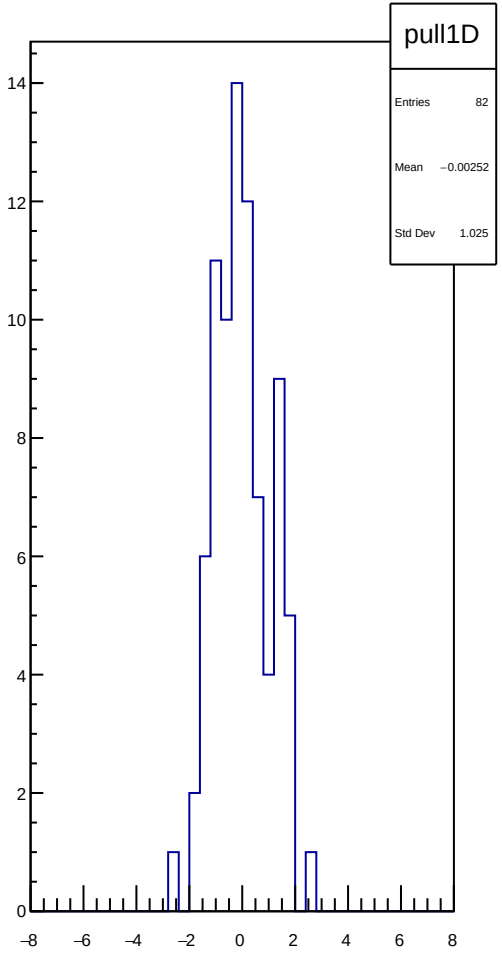

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 3756 / 81
p0 666.8 ± 0.5243
760
740
720
700
680
660
640
620
600

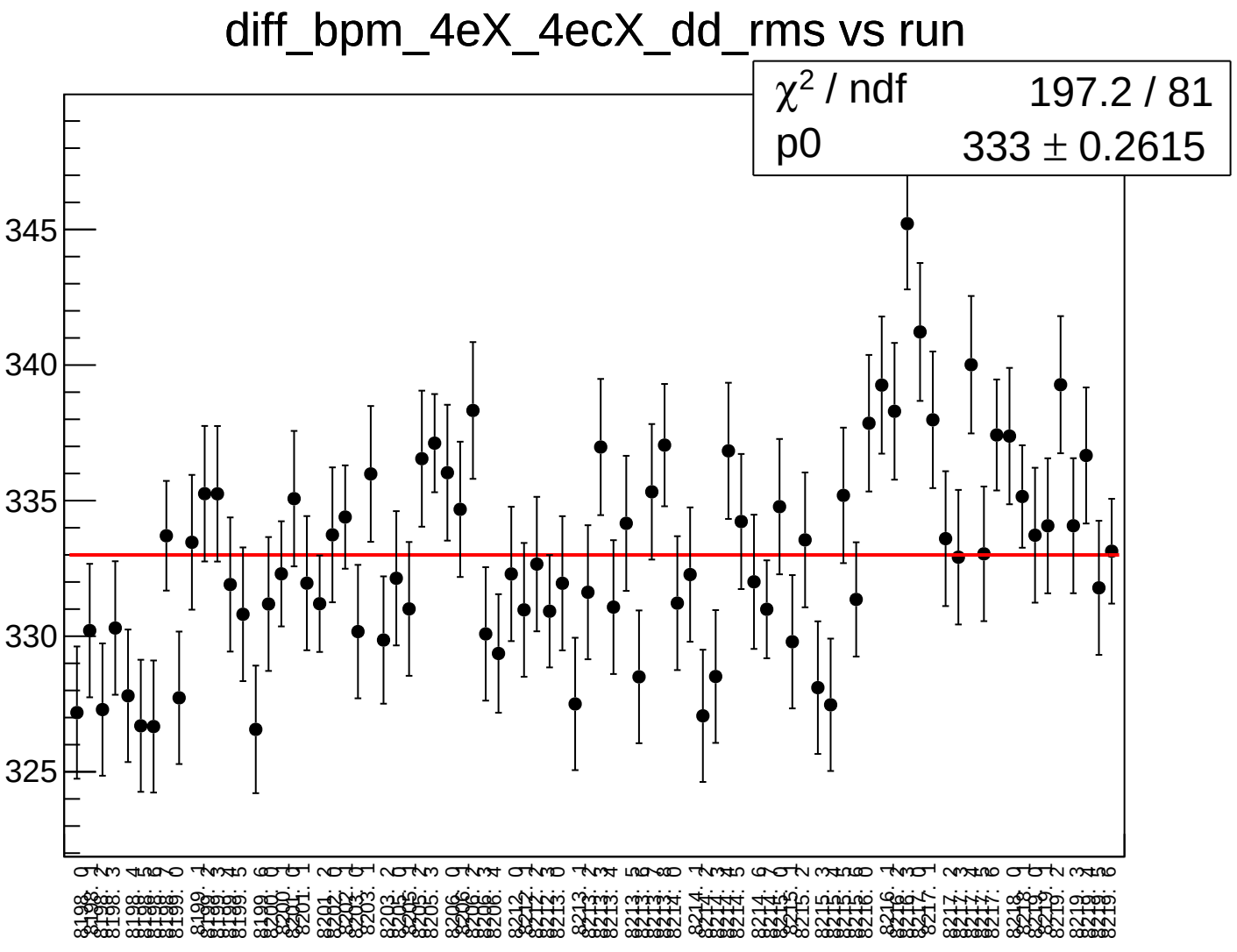

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 90.52 / 81
p0 −23.21 ± 24.19
1000
500
0
−500
−1000
pull
Entries 82
Mean −489.8
Std Dev 0
3
2
1
0
−1
−2
−3

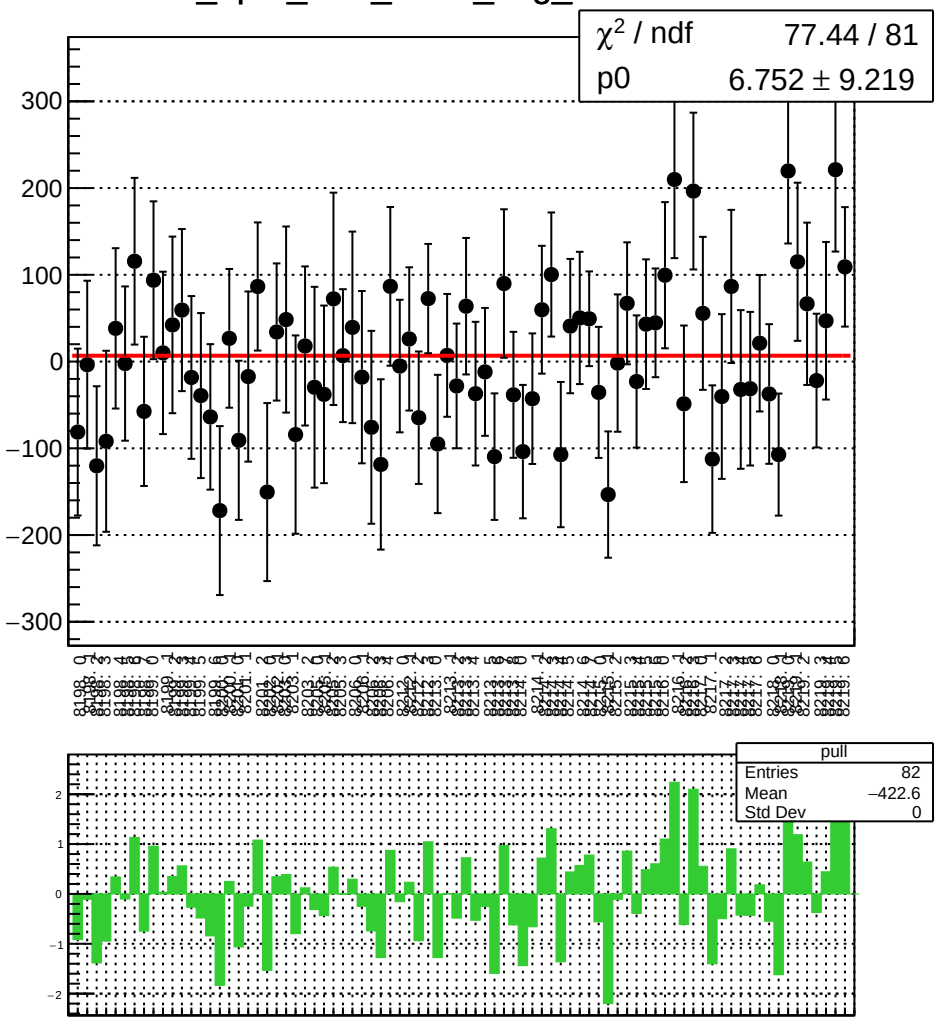

pull1D
Entries 82
Mean 0.004538
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

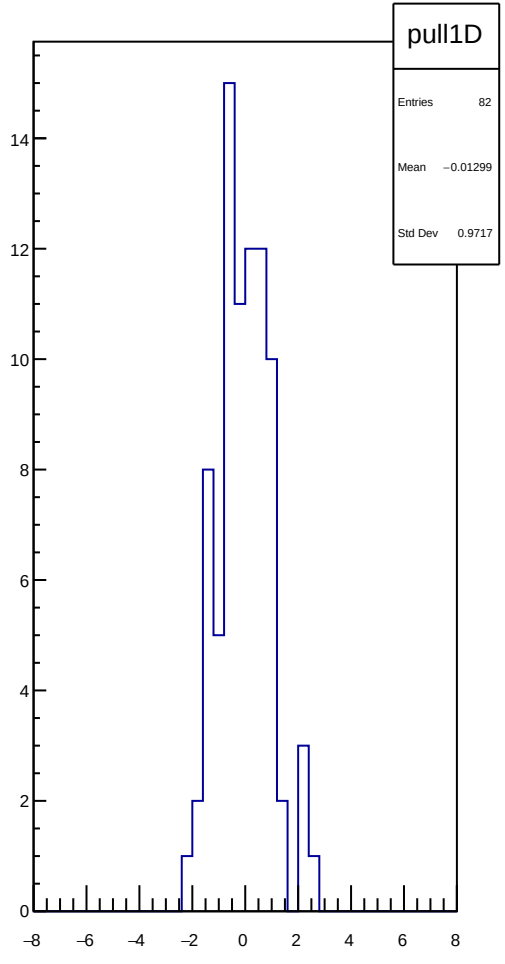

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 4375 / 81
p0 2.175e+04 ± 17.11
24000
23000
22000
21000
20000

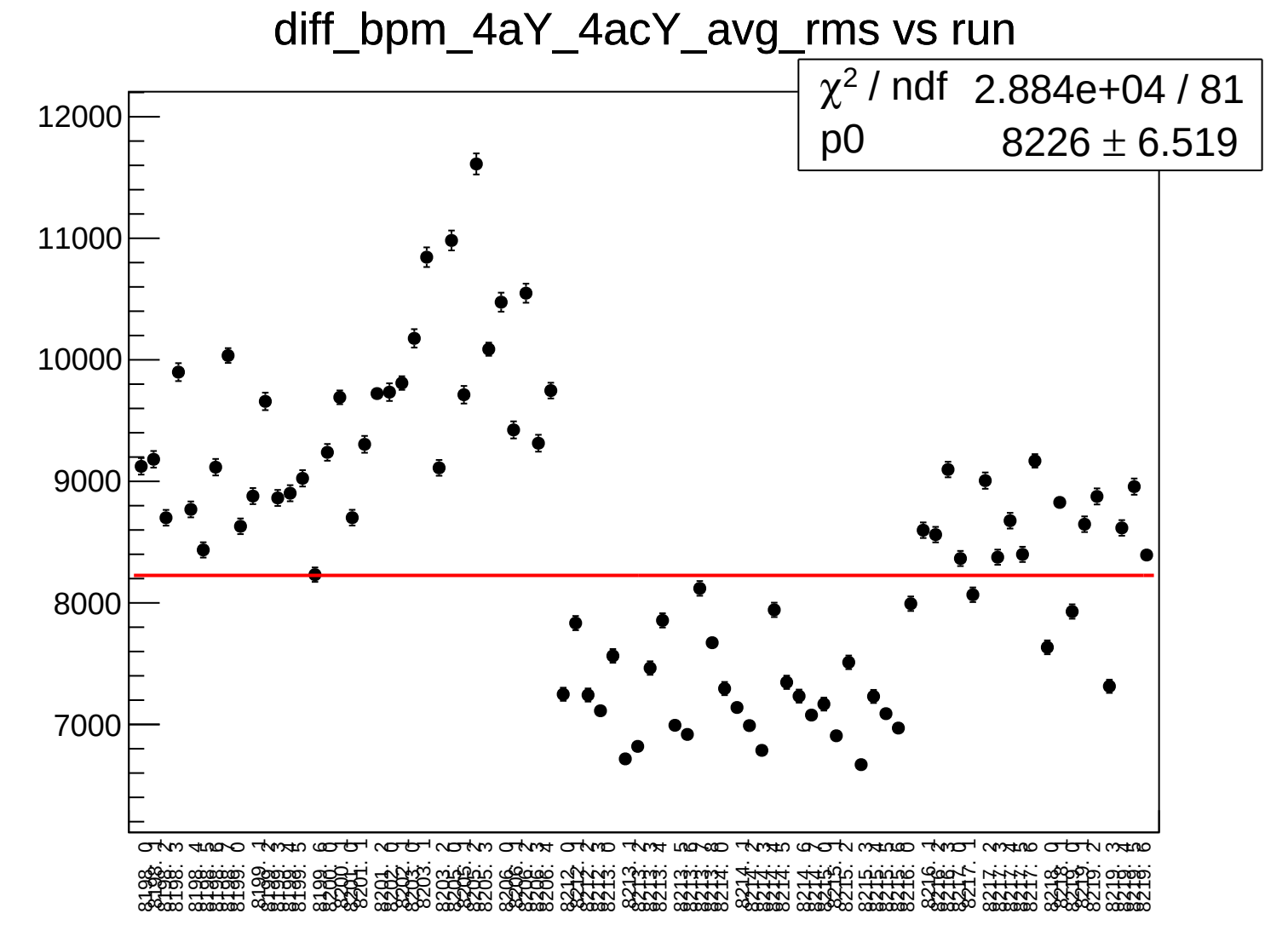

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 86.2 / 81
p0 0.5201 ± 0.3699
pull
Entries 82
Mean −388.2
Std Dev 0

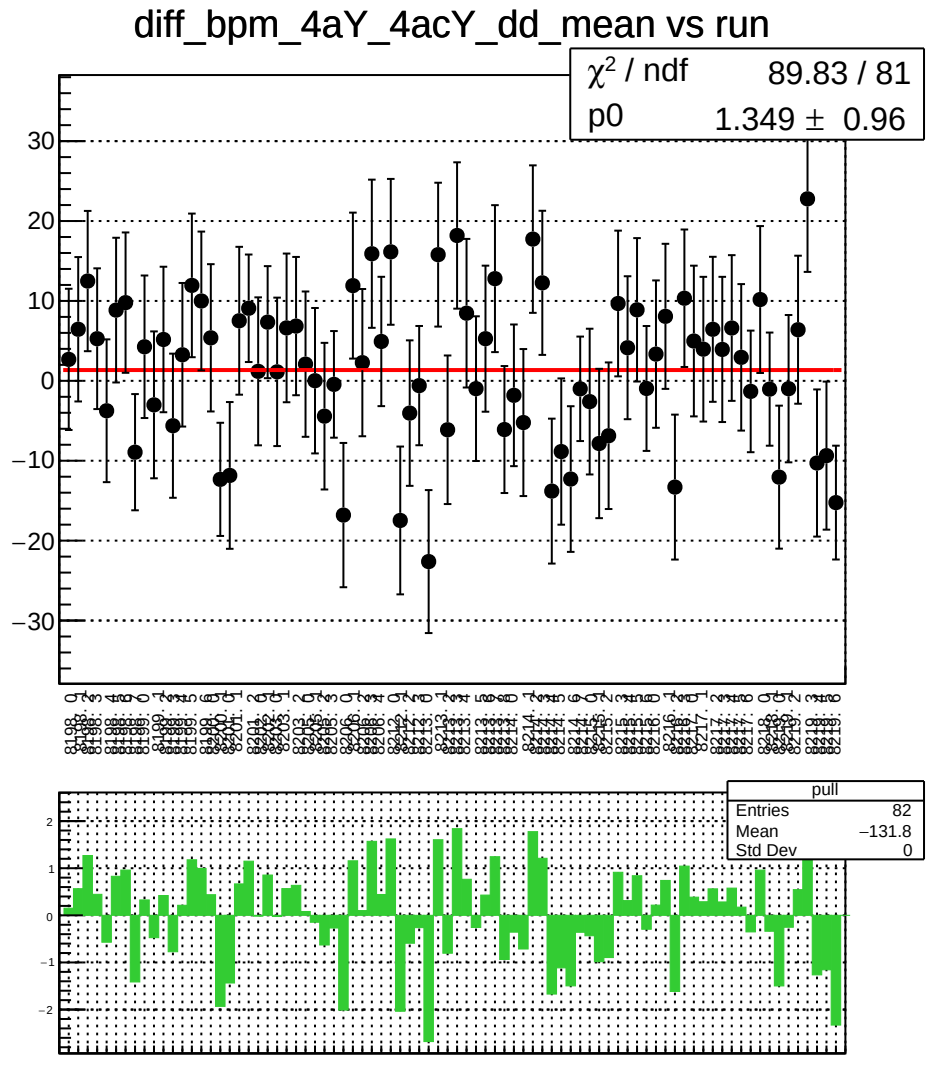

pull1D
Entries 82
Mean −0.00252
Std Dev 1.025

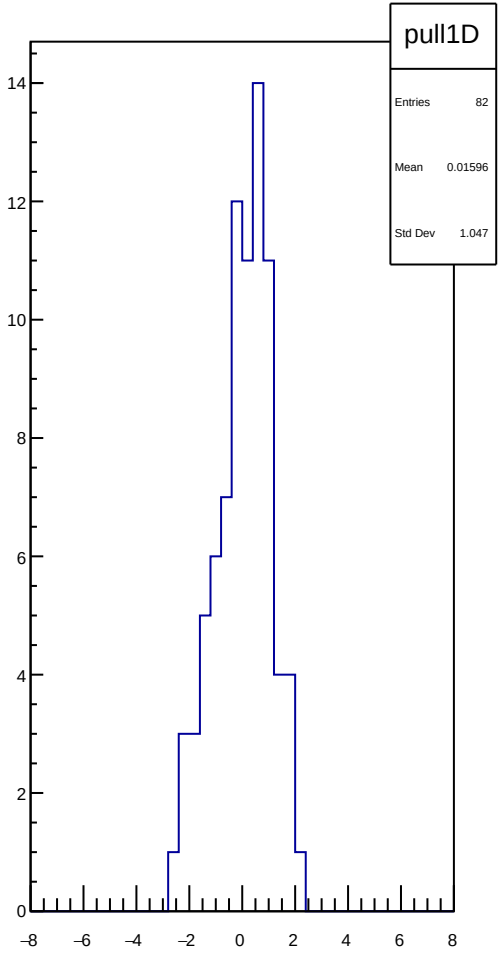

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 197.2 / 81
p0 333 ± 0.2615
345
340
335
330
325

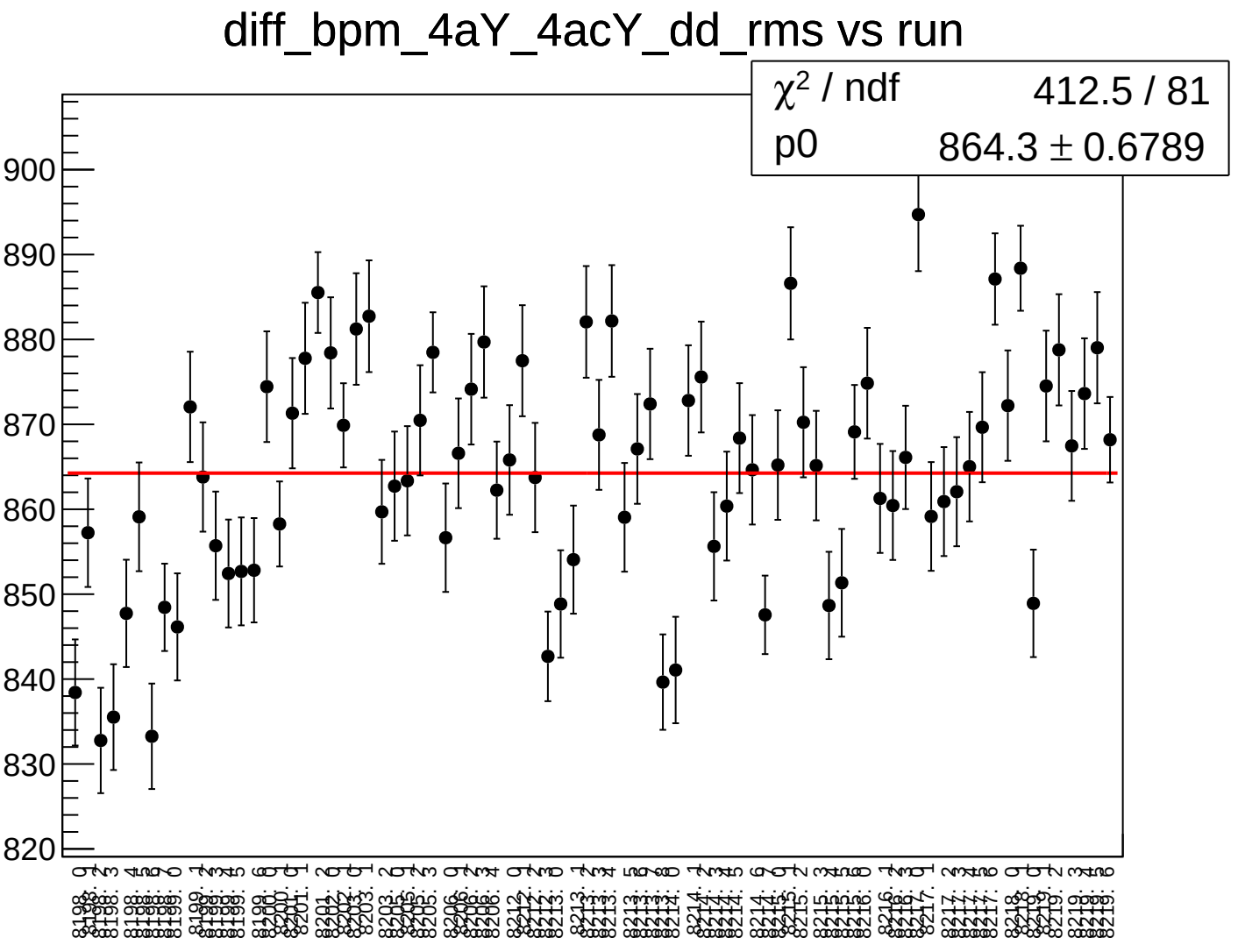

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 77.44 / 81
p0 6.752 ± 9.219
pull
Entries 82
Mean −422.6
Std Dev 0

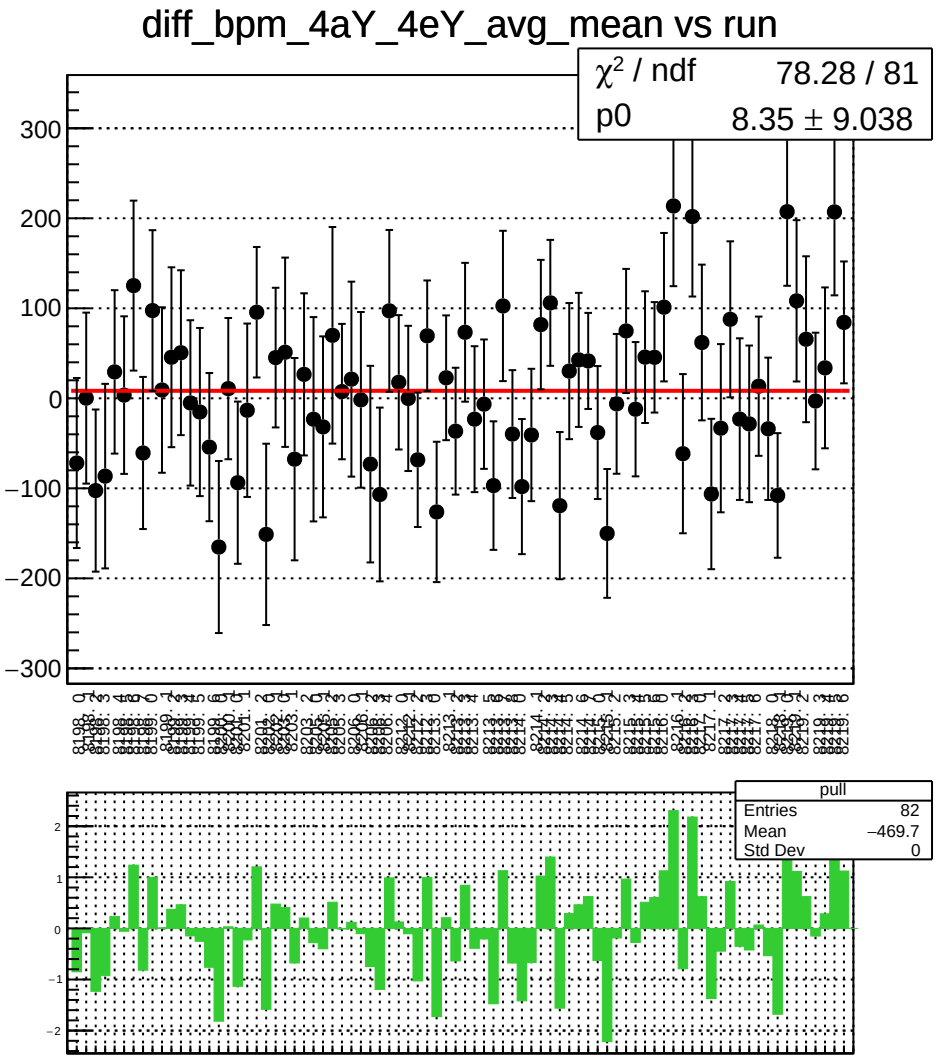

pull1D
Entries 82
Mean −0.01299
Std Dev 0.9717

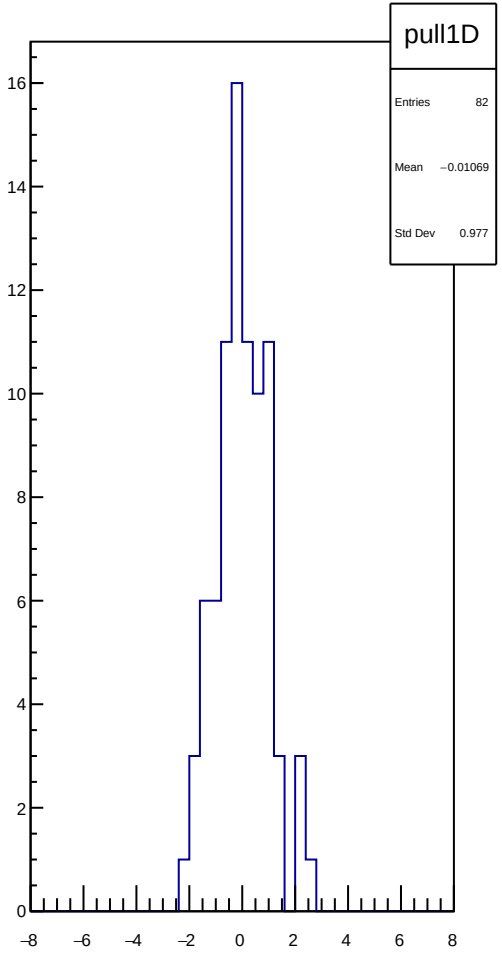

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 2.884e+04 / 81
p0 8226 ± 6.519
12000
11000
10000
9000
8000
7000

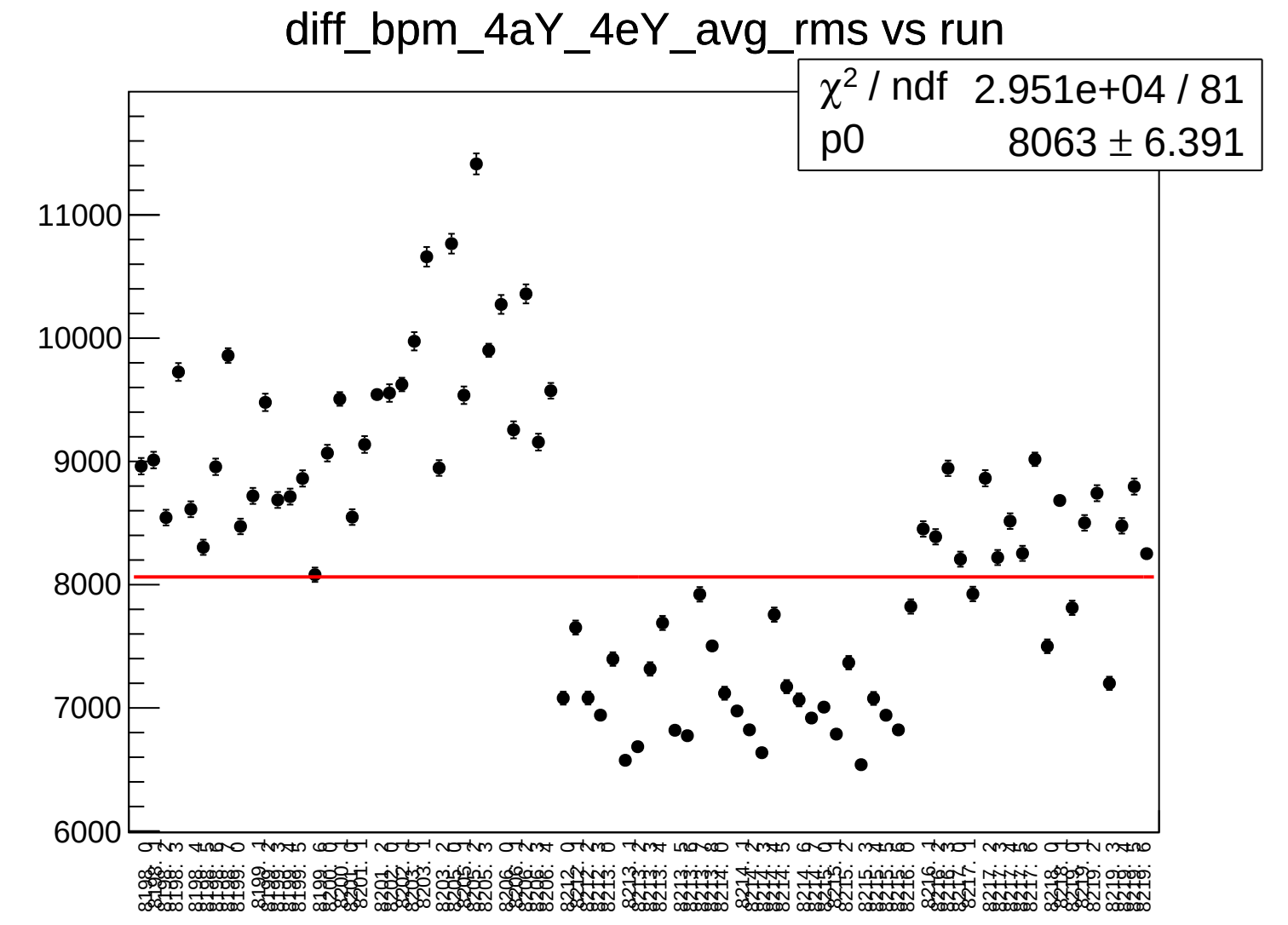

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 89.83 / 81
p0 1.349 ± 0.96
pull
Entries 82
Mean −131.8
Std Dev 0

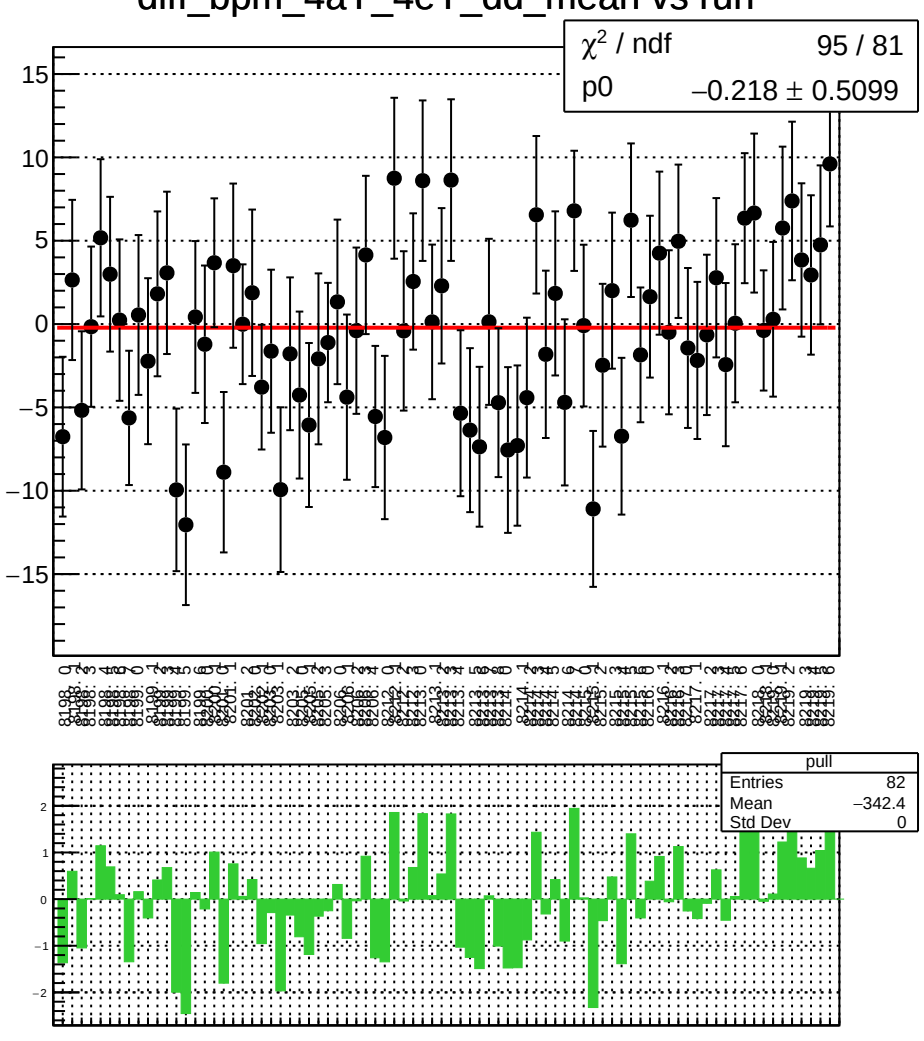

pull1D
Entries 82
Mean 0.01596
Std Dev 1.047

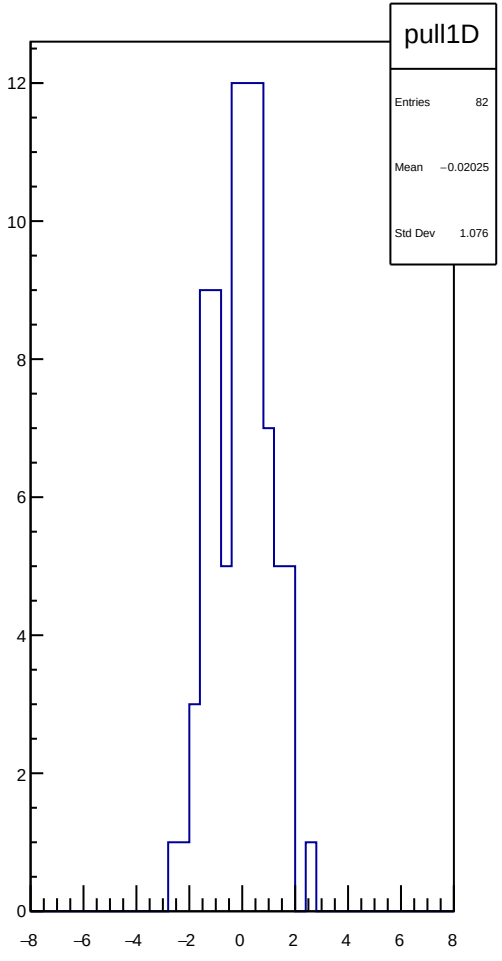

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 412.5 / 81
p0 864.3 ± 0.6789
900
890
880
870
860
850
840
830
820

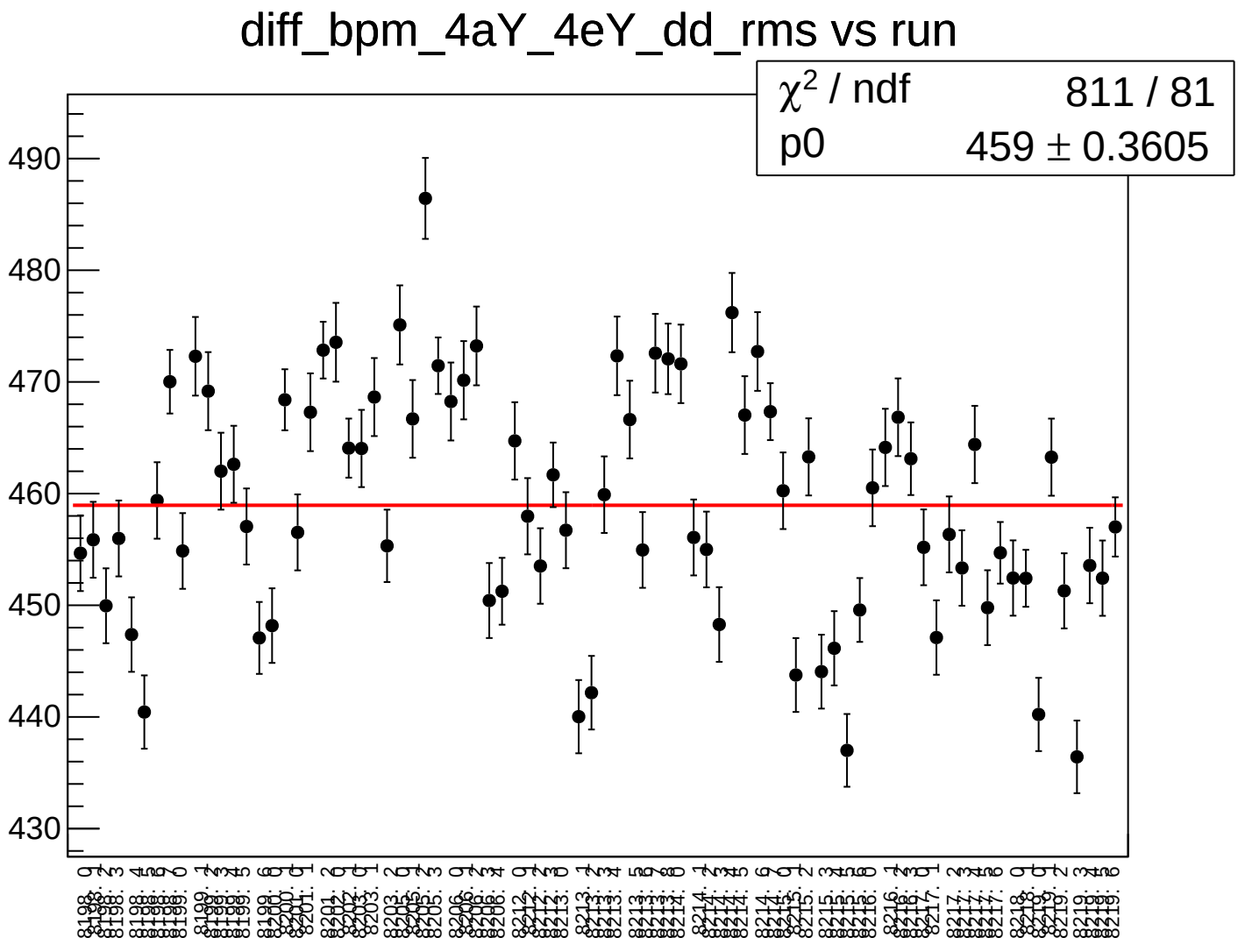

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 78.28 / 81
p0 8.35 ± 9.038
pull
Entries 82
Mean −469.7
Std Dev 0

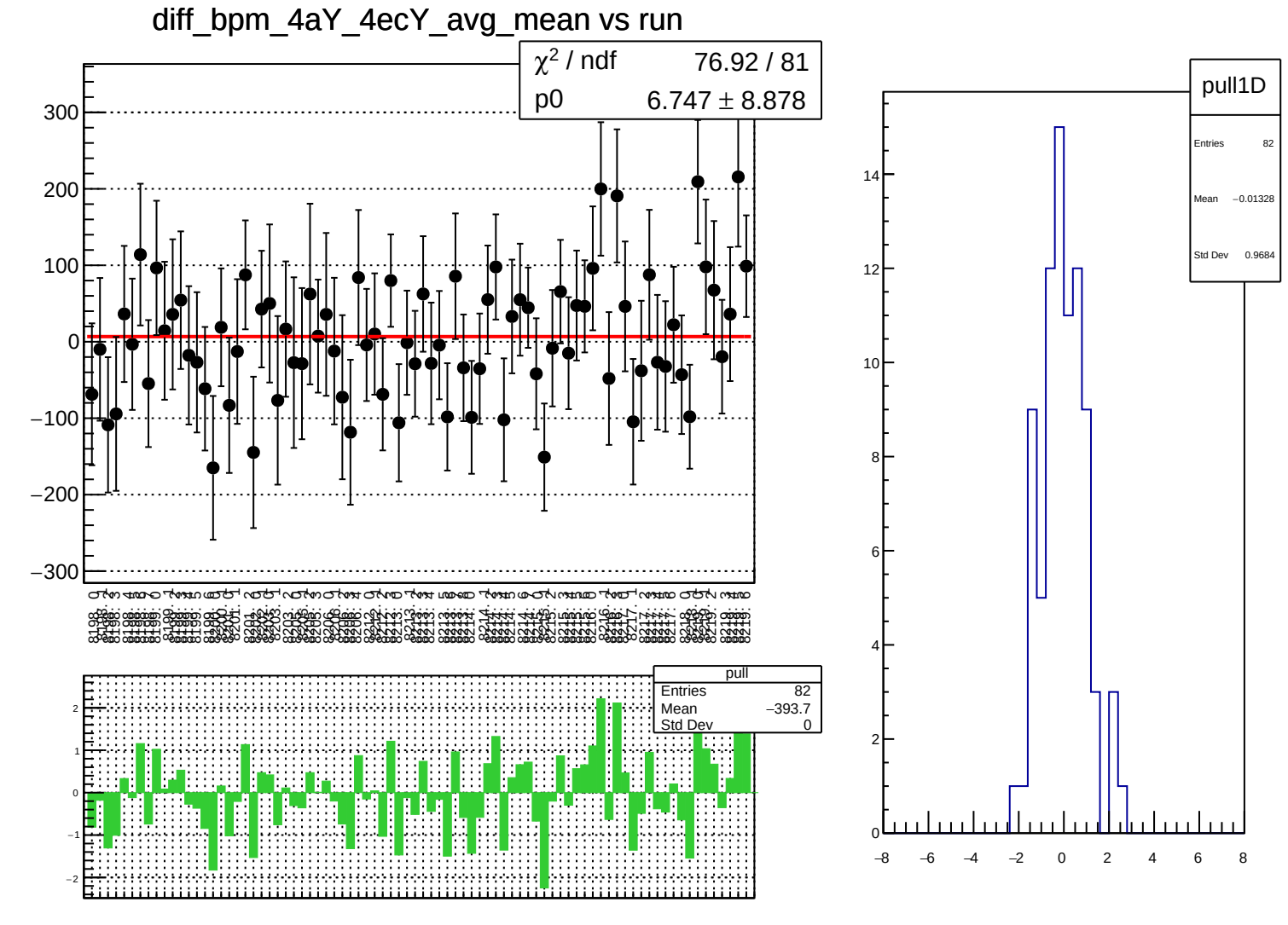

pull1D
Entries 82
Mean −0.01069
Std Dev 0.977

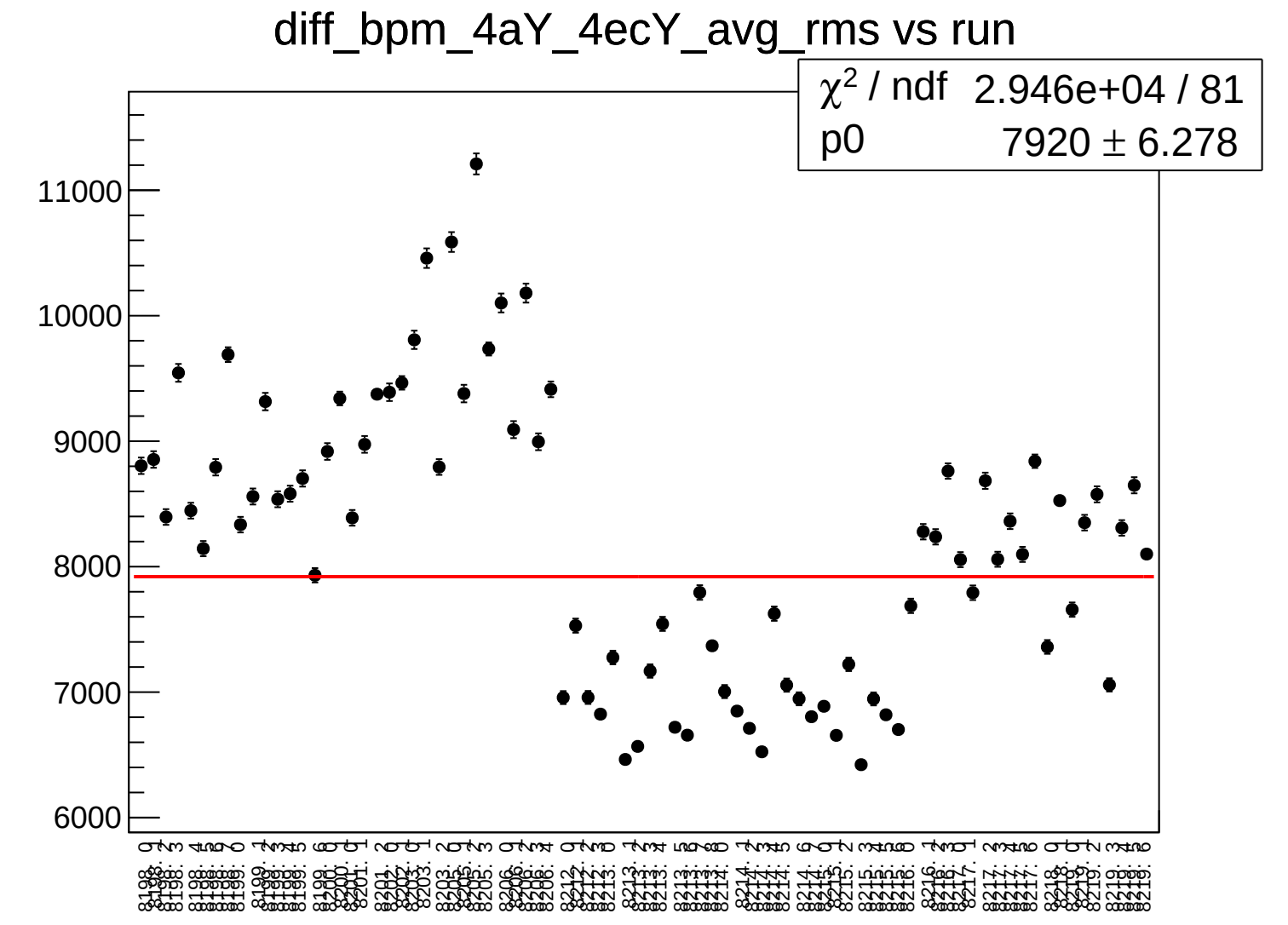

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 2.951e+04 / 81
p0 8063 ± 6.391
11000
10000
9000
8000
7000
6000

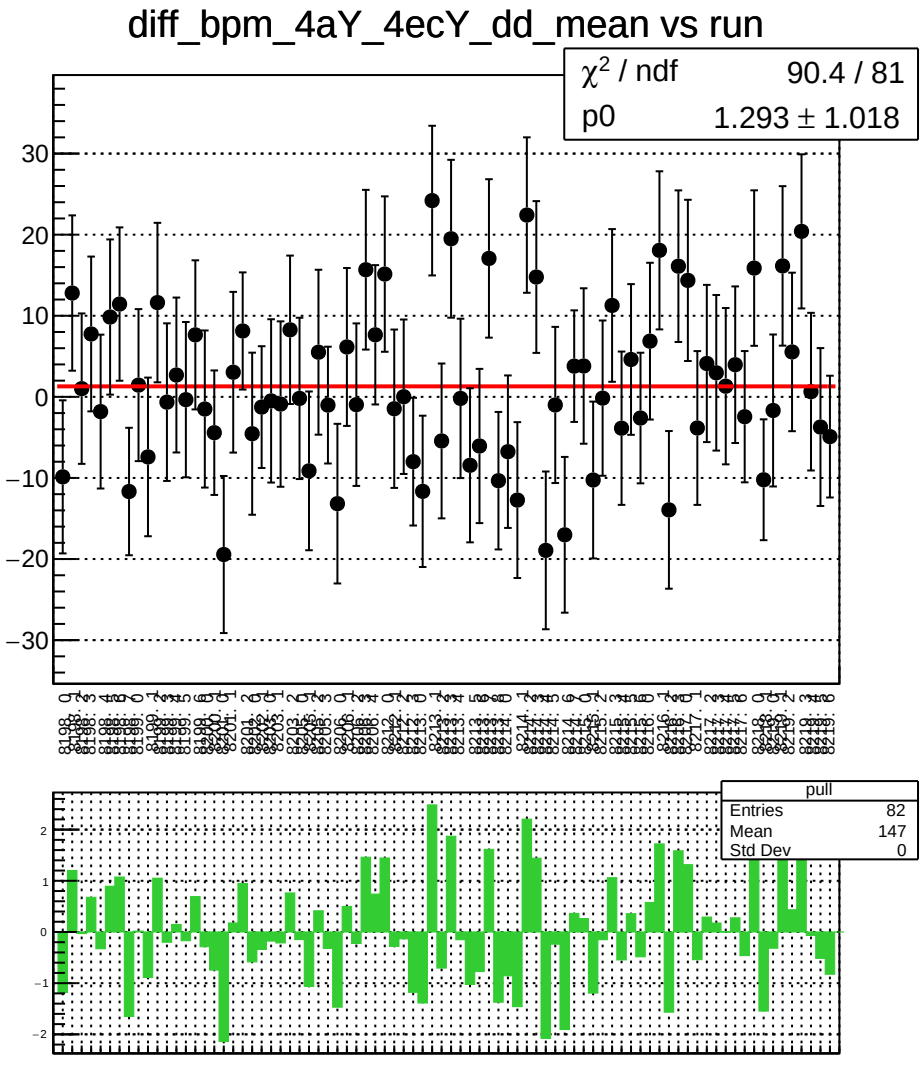

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 95 / 81
p0 −0.218 ± 0.5099
pull
Entries 82
Mean −342.4
Std Dev 0

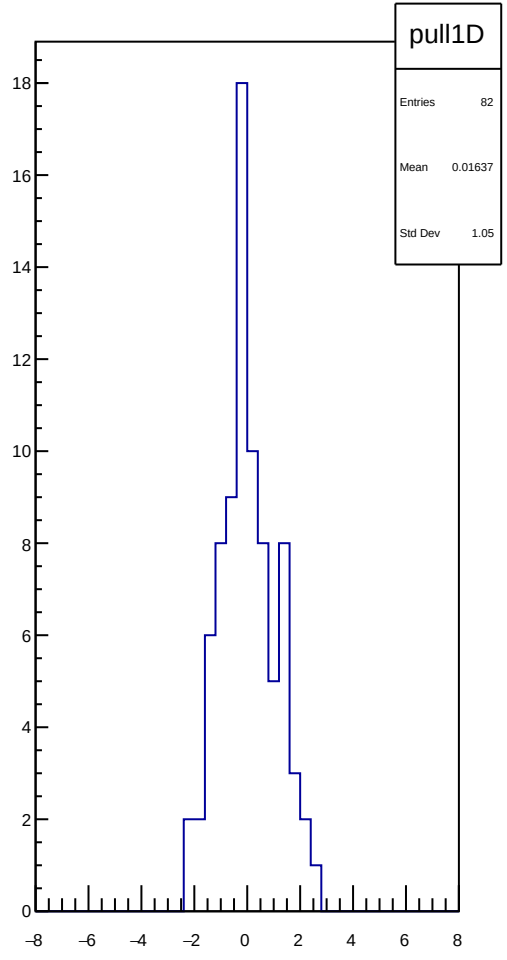

pull1D
Entries 82
Mean −0.02025
Std Dev 1.076

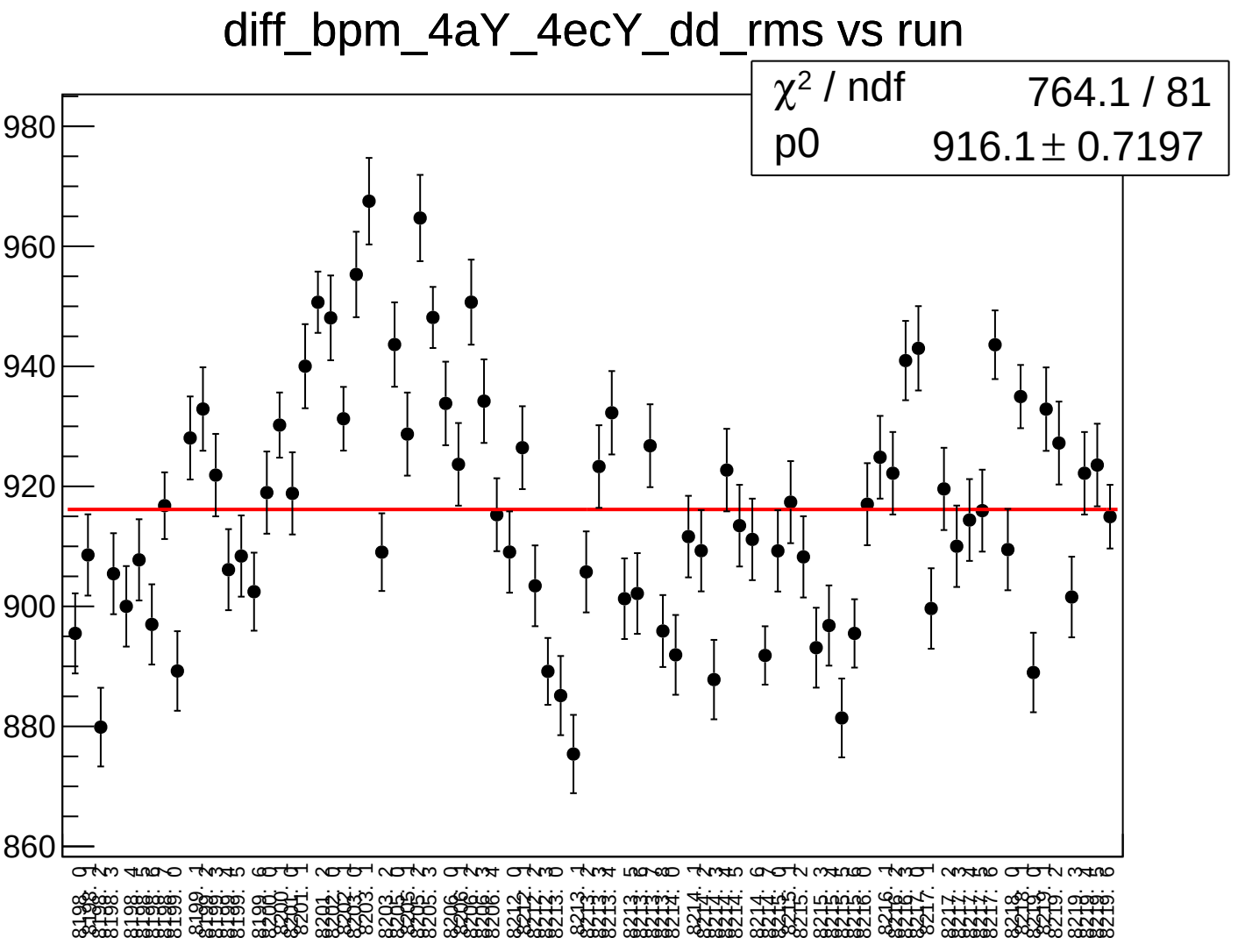

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 811 / 81
p0 459 ± 0.3605
490
480
470
460
450
440
430

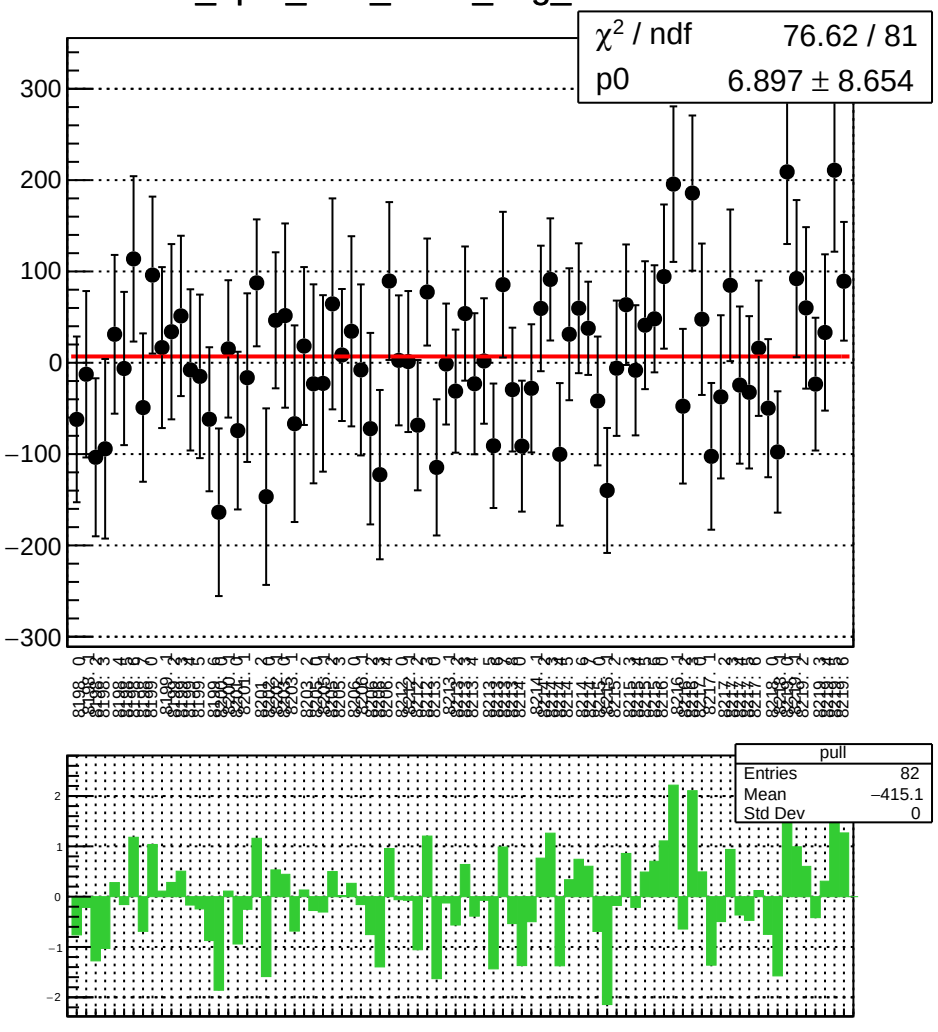

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 76.92 / 81
p0 6.747 ± 8.878
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −393.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.01328
Std Dev 0.9684
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

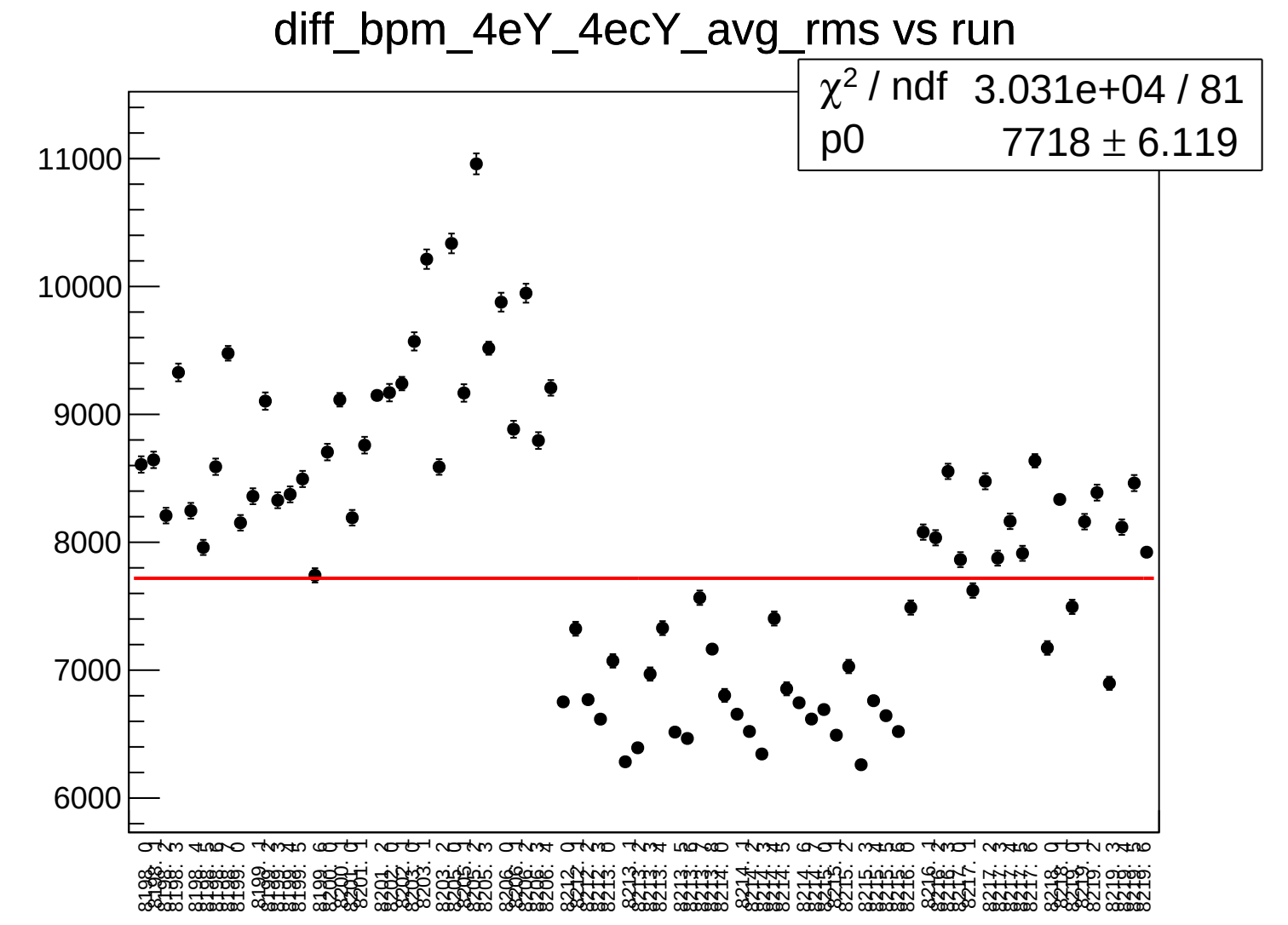

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 2.946e+04 / 81
p0 7920 ± 6.278
11000
10000
9000
8000
7000
6000

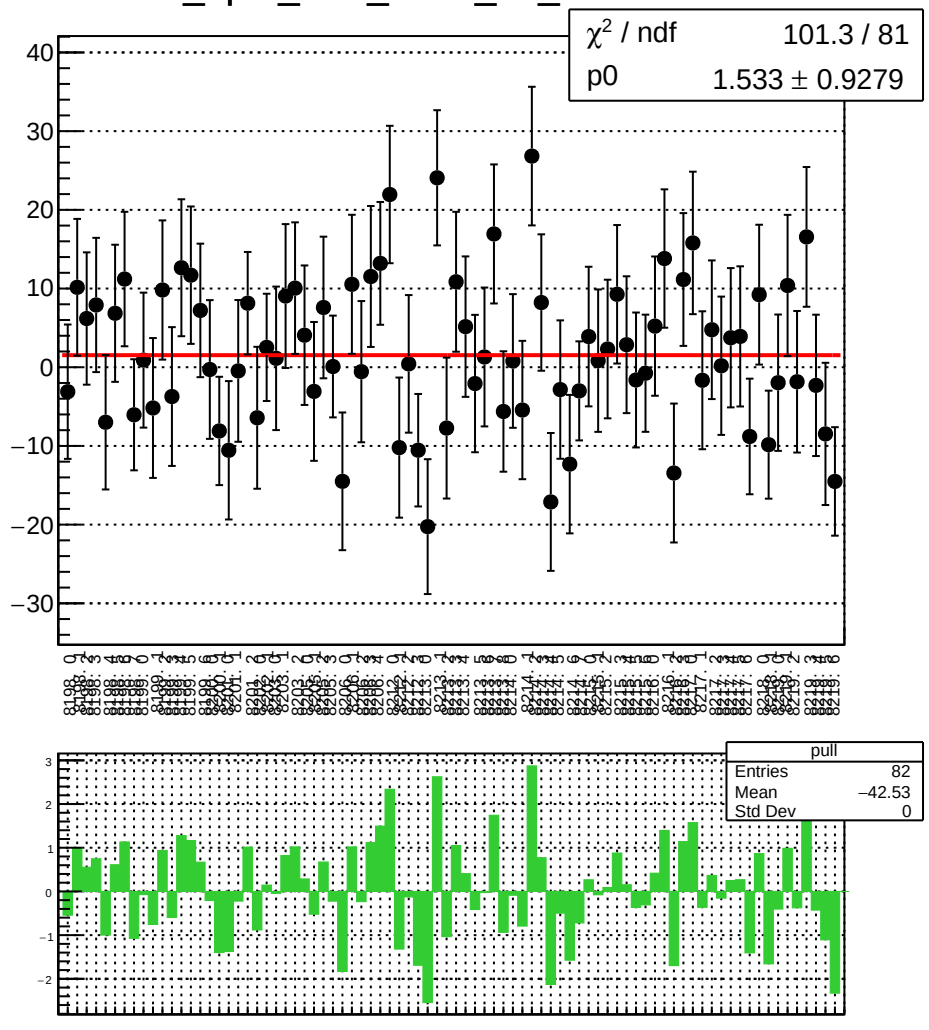

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 90.4 / 81
p0 1.293 ± 1.018
pull
Entries 82
Mean 147
Std Dev 0

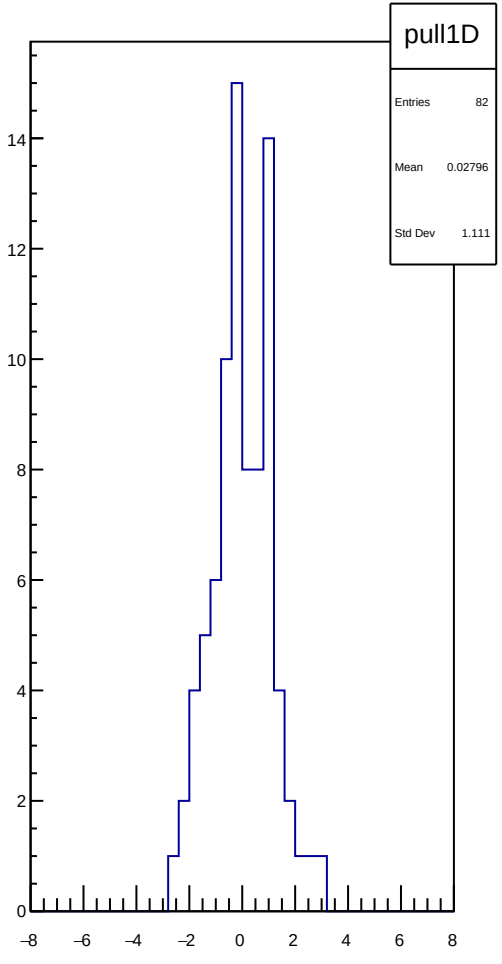

pull1D
Entries 82
Mean 0.01637
Std Dev 1.05

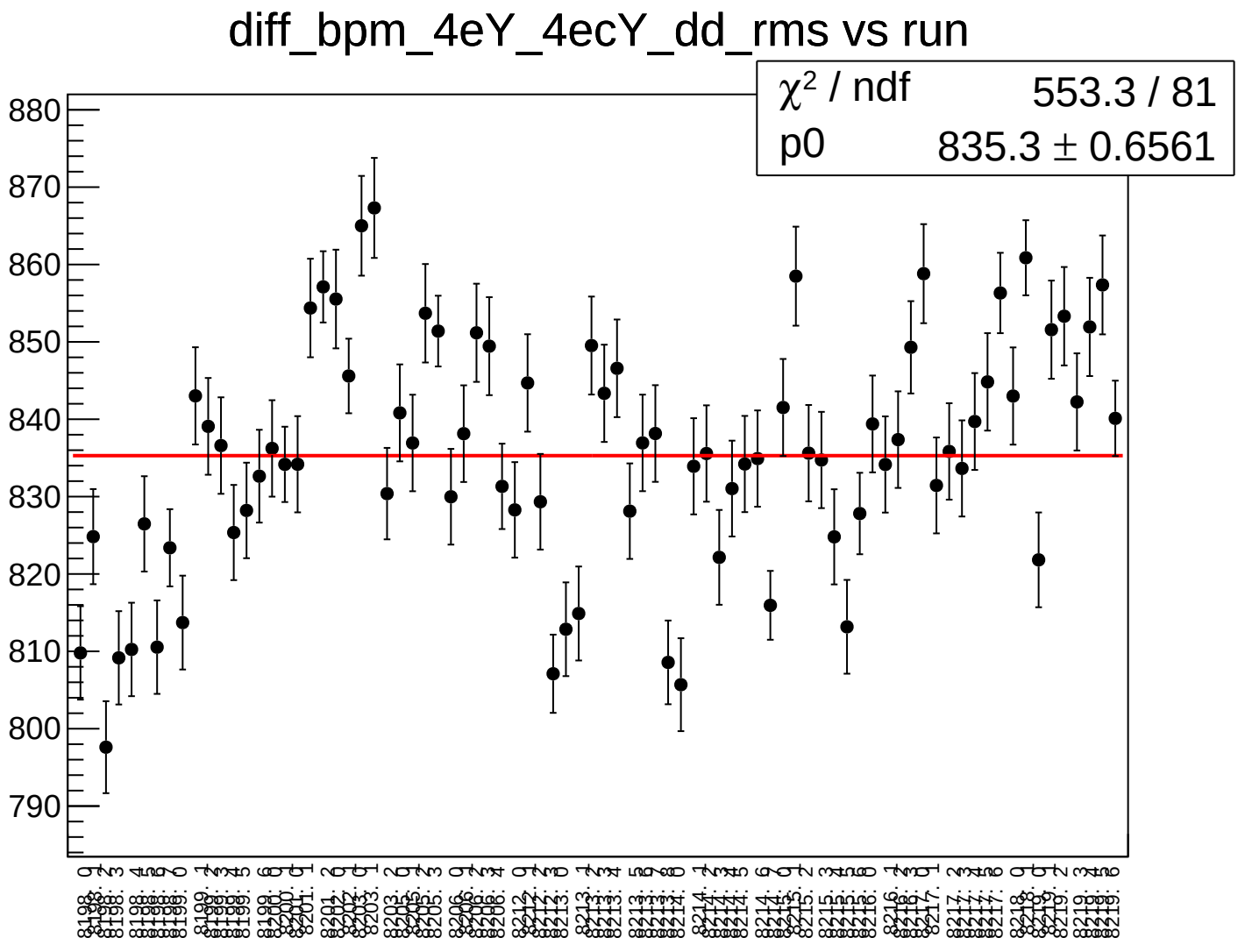

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 764.1 / 81
p0 916.1 ± 0.7197
980
960
940
920
900
880
860

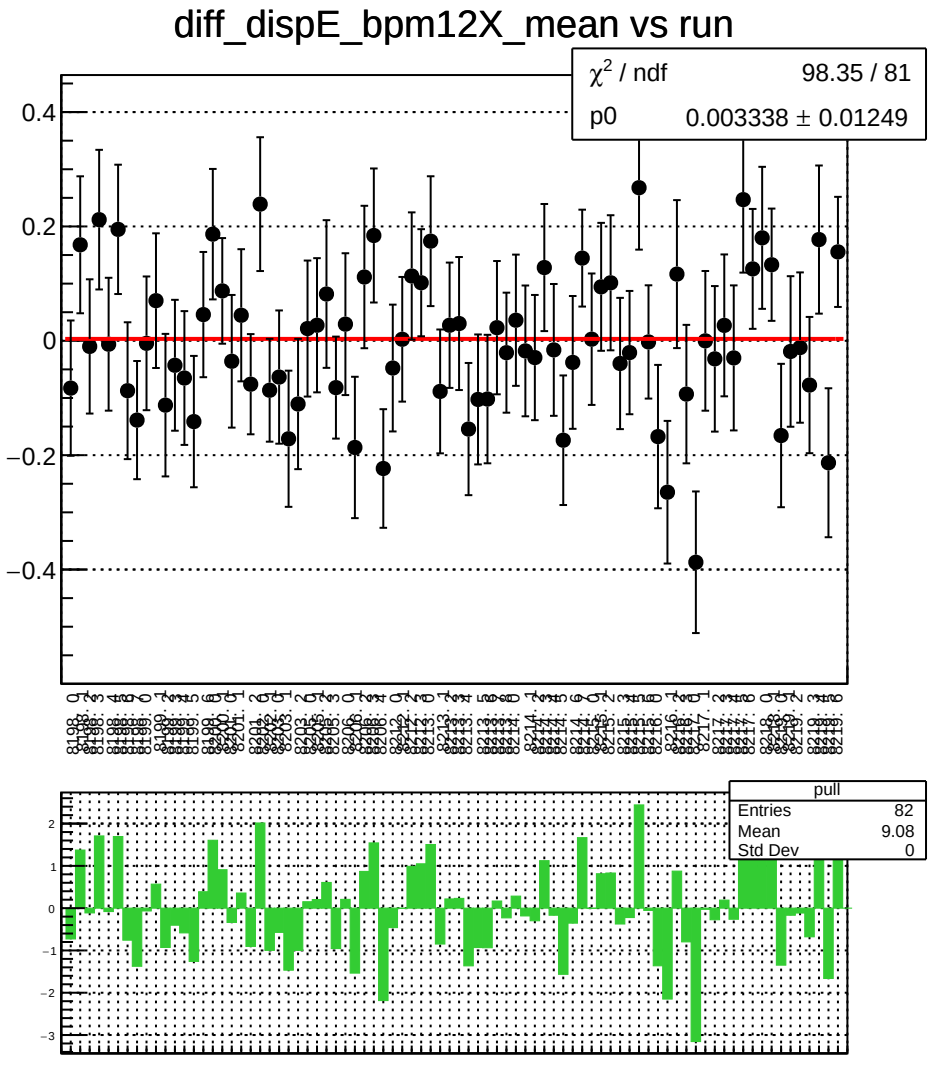

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 76.62 / 81
p0 6.897 ± 8.654
pull
Entries 82
Mean −415.1
Std Dev 0
pull1D
Entries 82
Mean −0.01203
Std Dev 0.9666

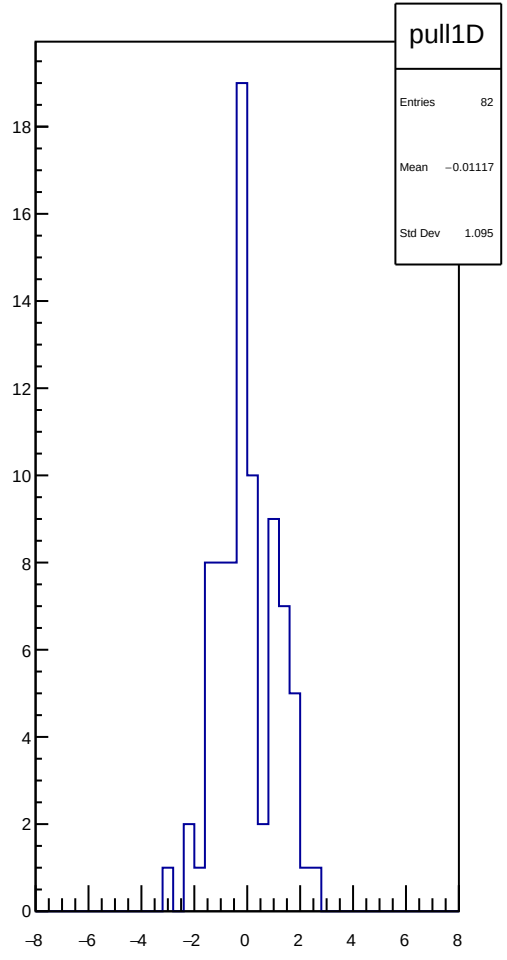

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 3.031e+04 / 81
p0 7718 ± 6.119
11000
10000
9000
8000
7000
6000

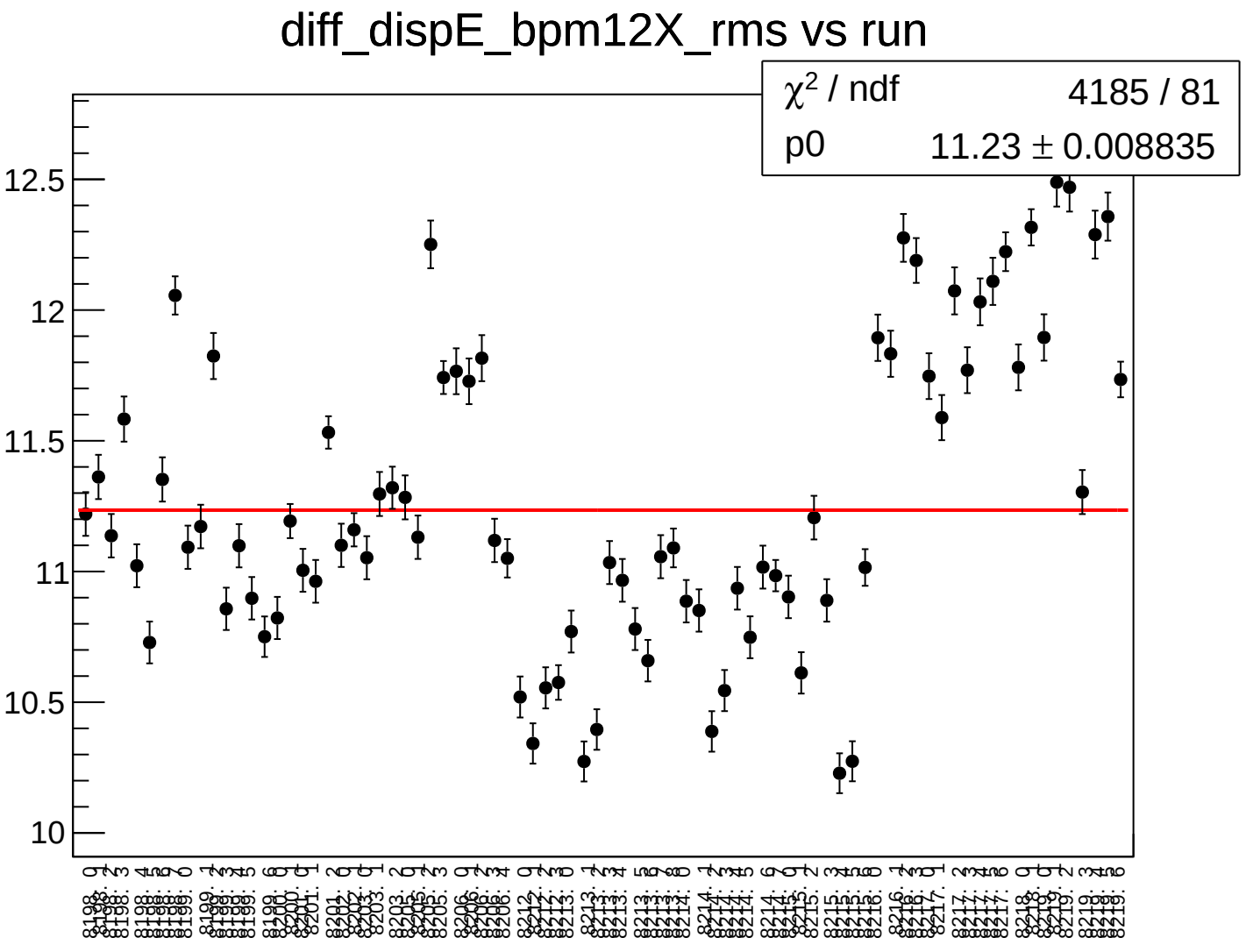

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 101.3 / 81
p0 1.533 ± 0.9279
pull
Entries 82
Mean −42.53
Std Dev 0

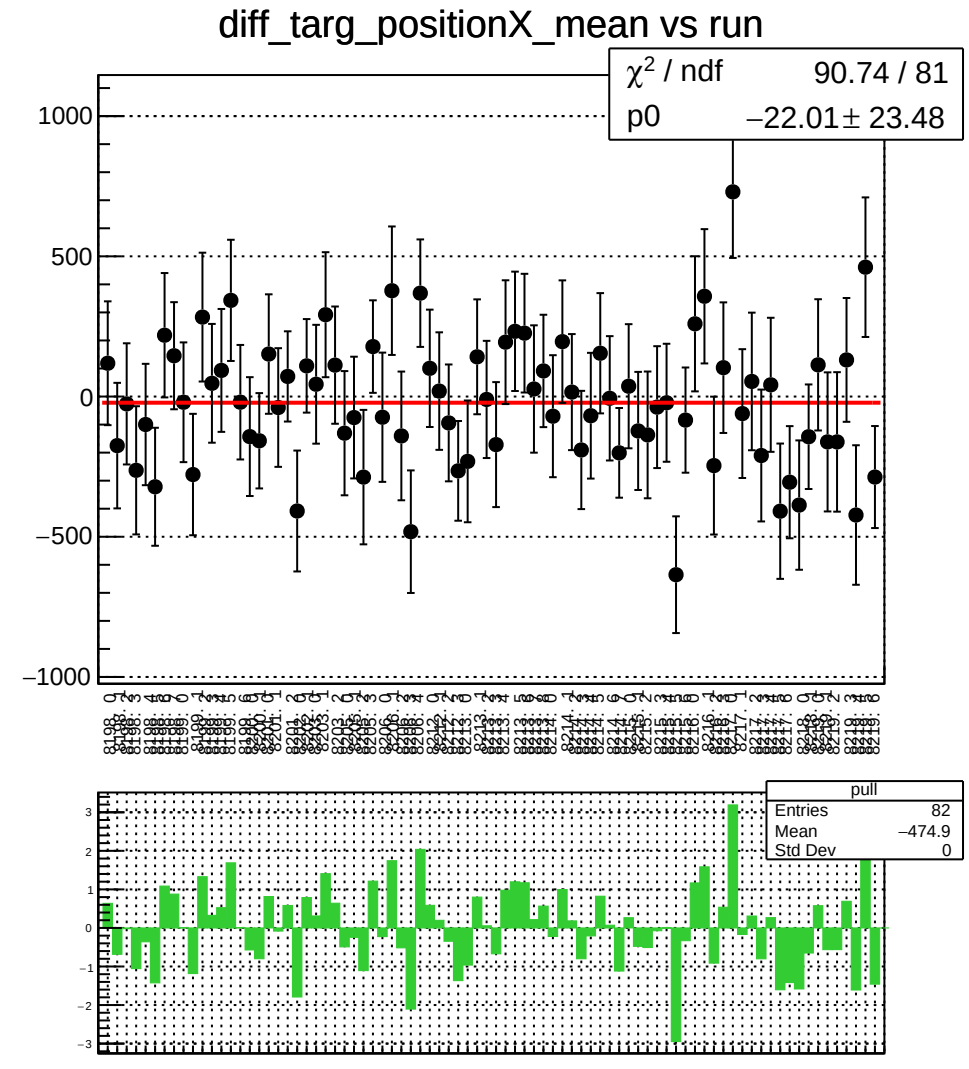

pull1D
Entries 82
Mean 0.02796
Std Dev 1.111

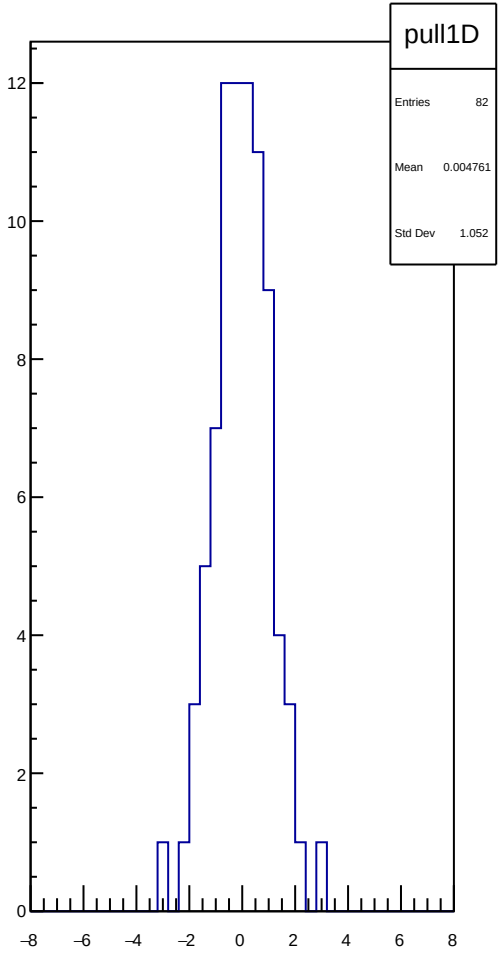

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 553.3 / 81
p0 835.3 ± 0.6561
880
870
860
850
840
830
820
810
800
790

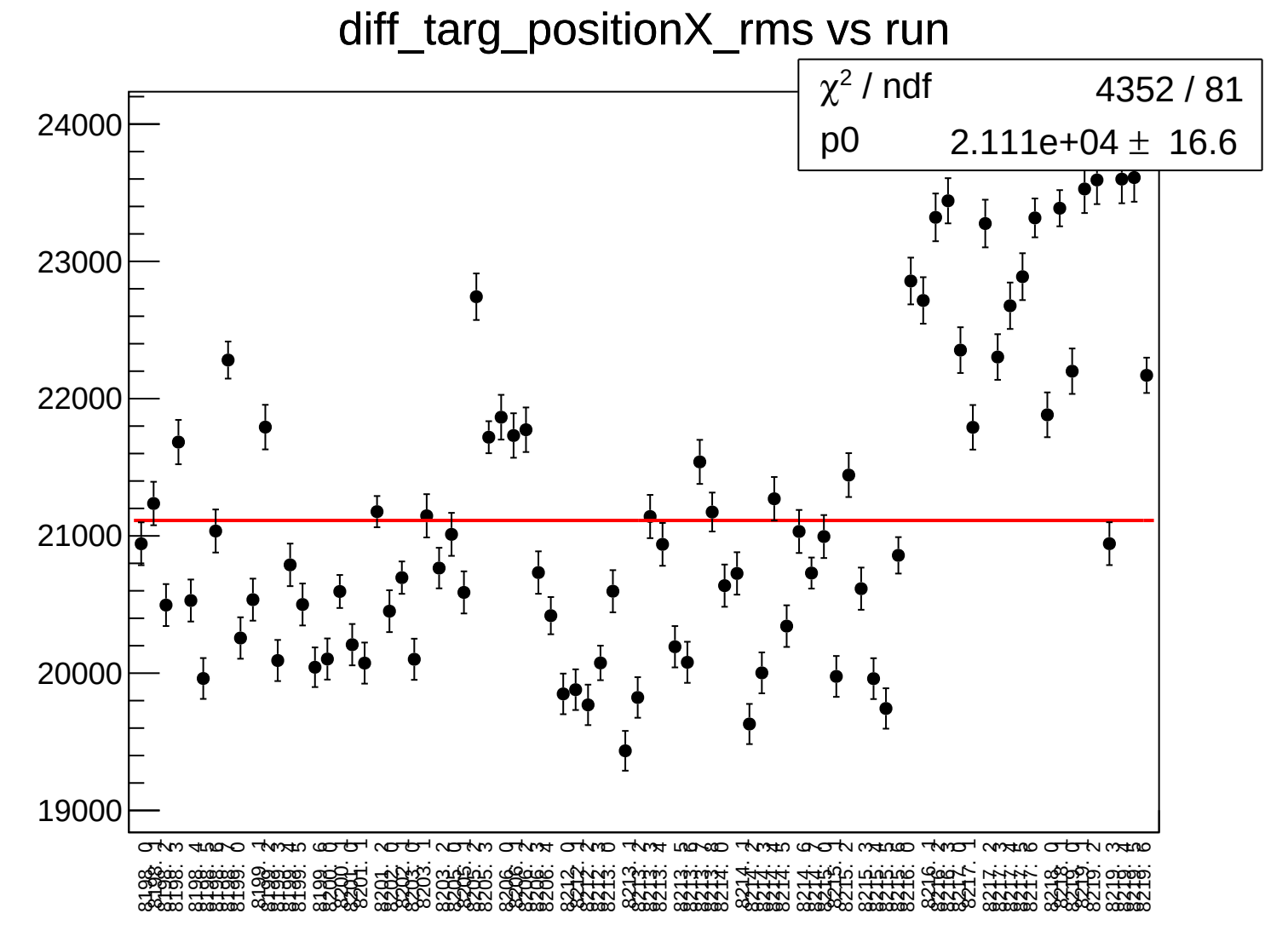

diff_dispE_bpm12X_mean vs run
χ² / ndf 98.35 / 81
p0 0.003338 ± 0.01249
0.4
0.2
0
−0.2
−0.4
pull
Entries 82
Mean 9.08
Std Dev 0
2
1
0
−1
−2
−3

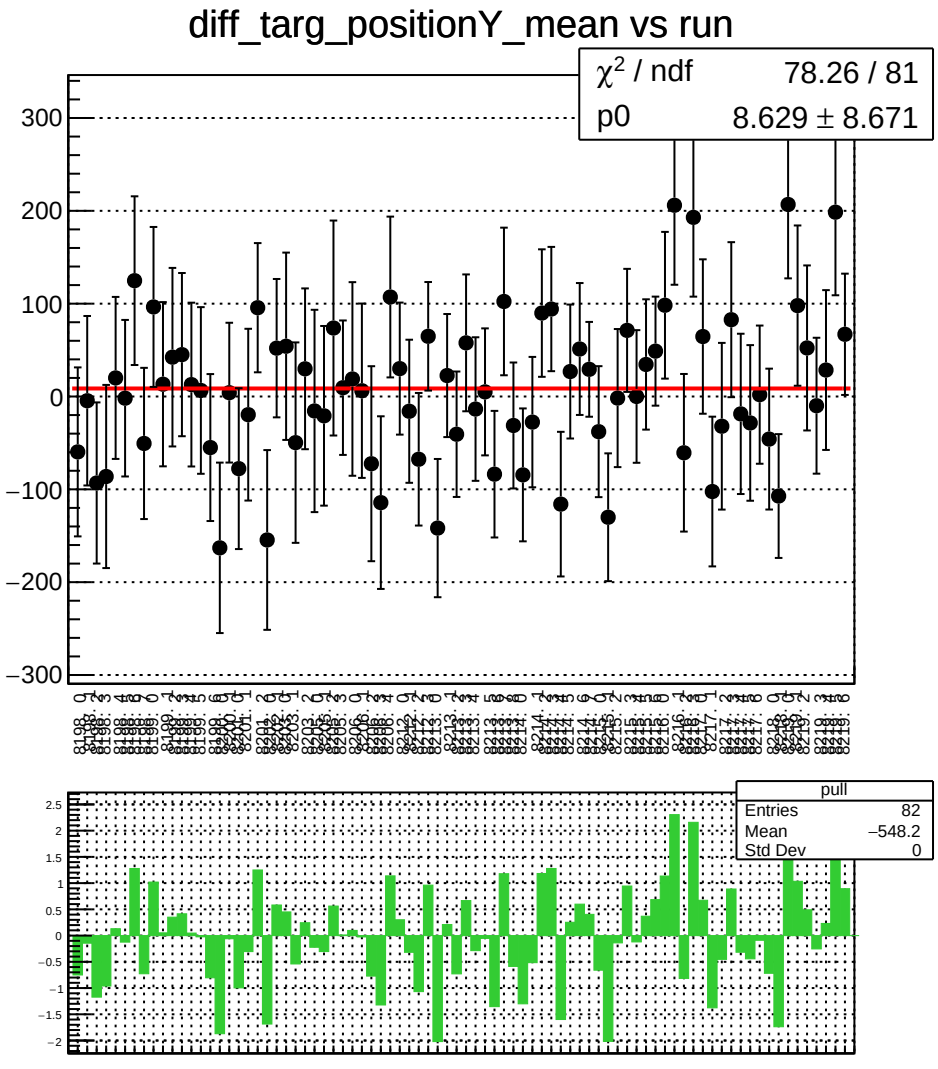

pull1D
Entries 82
Mean −0.01117
Std Dev 1.095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

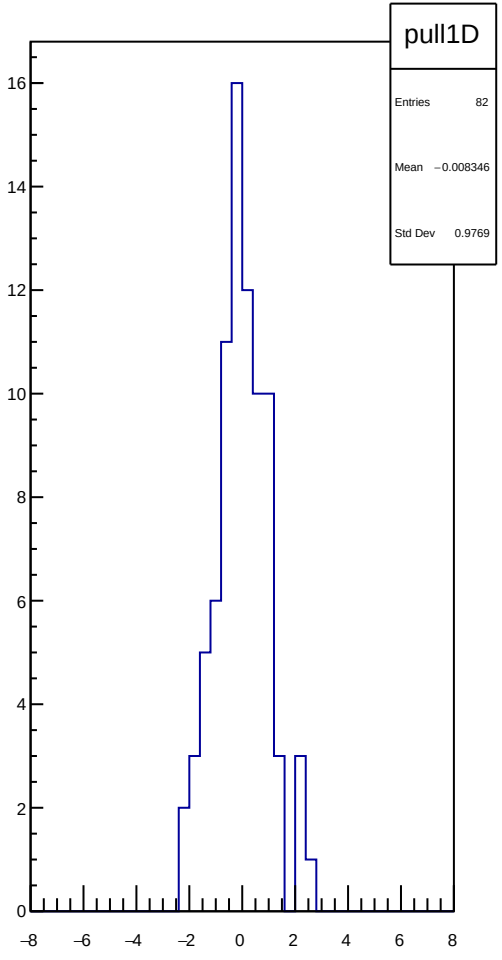

diff_dispE_bpm12X_rms vs run
χ² / ndf 4185 / 81
p0 11.23 ± 0.008835
12.5
12
11.5
11
10.5
10

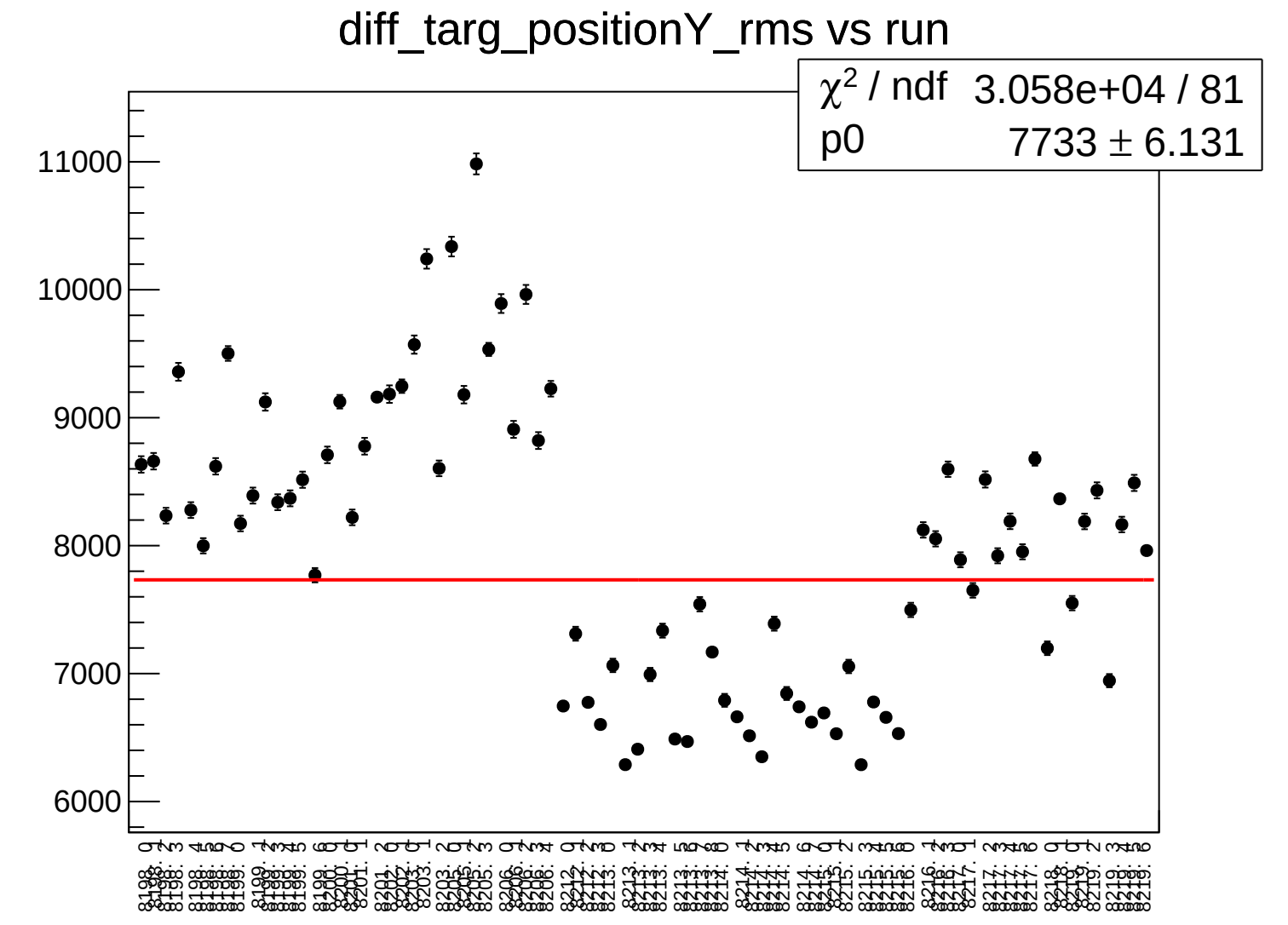

diff_targ_positionX_mean vs run
χ² / ndf 90.74 / 81
p0 −22.01 ± 23.48
1000
500
0
−500
−1000
pull
Entries 82
Mean −474.9
Std Dev 0
3
2
1
0
−1
−2
−3

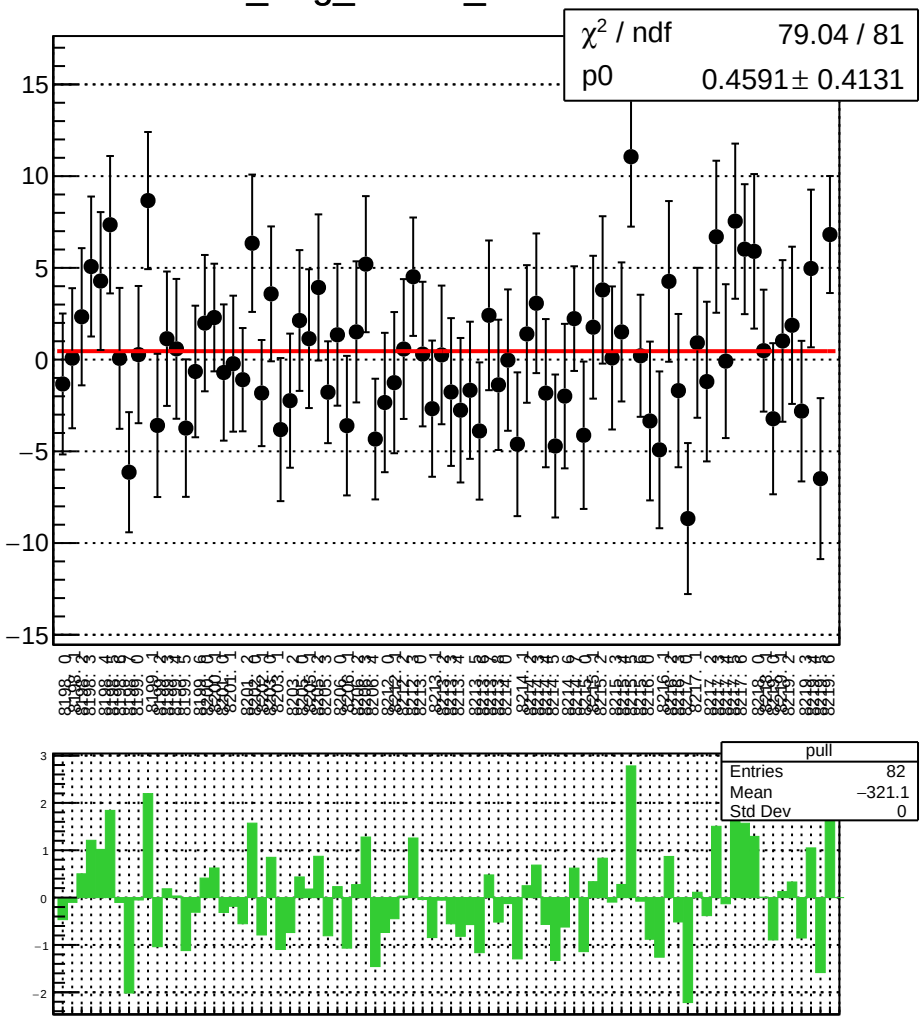

pull1D
Entries 82
Mean 0.004761
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

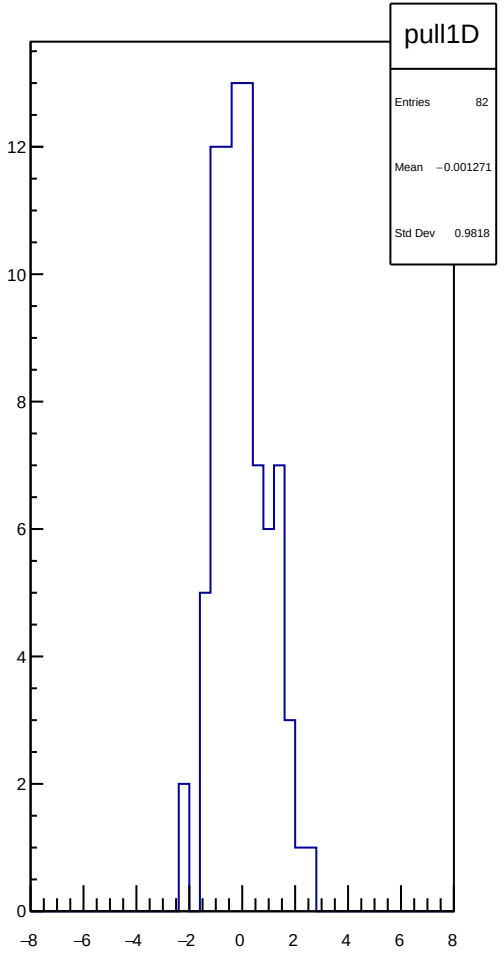

diff_targ_positionX_rms vs run
χ² / ndf 4352 / 81
p0 2.111e+04 ± 16.6
24000
23000
22000
21000
20000
19000

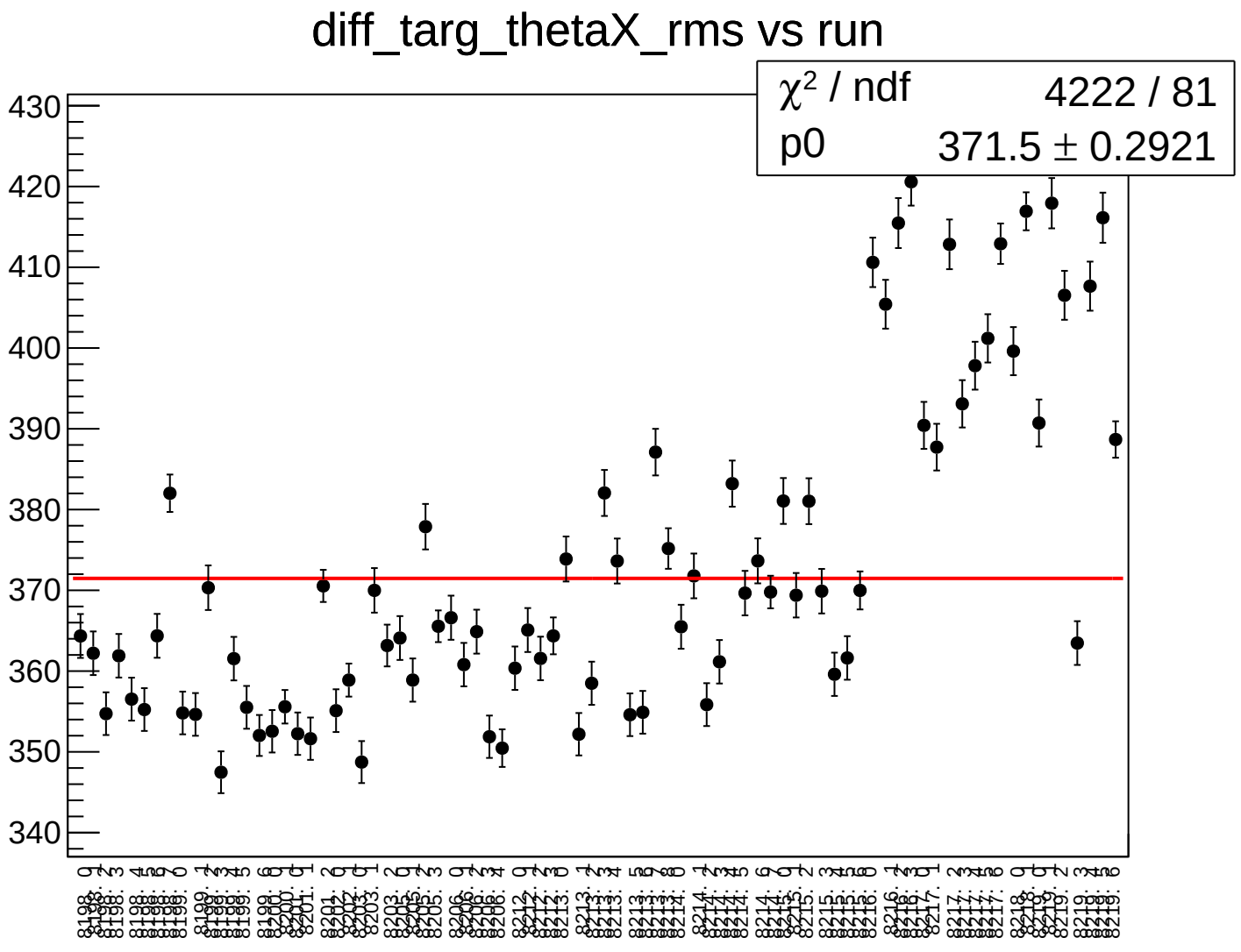

diff_targ_positionY_mean vs run
χ² / ndf 78.26 / 81
p0 8.629 ± 8.671
pull
Entries 82
Mean −548.2
Std Dev 0

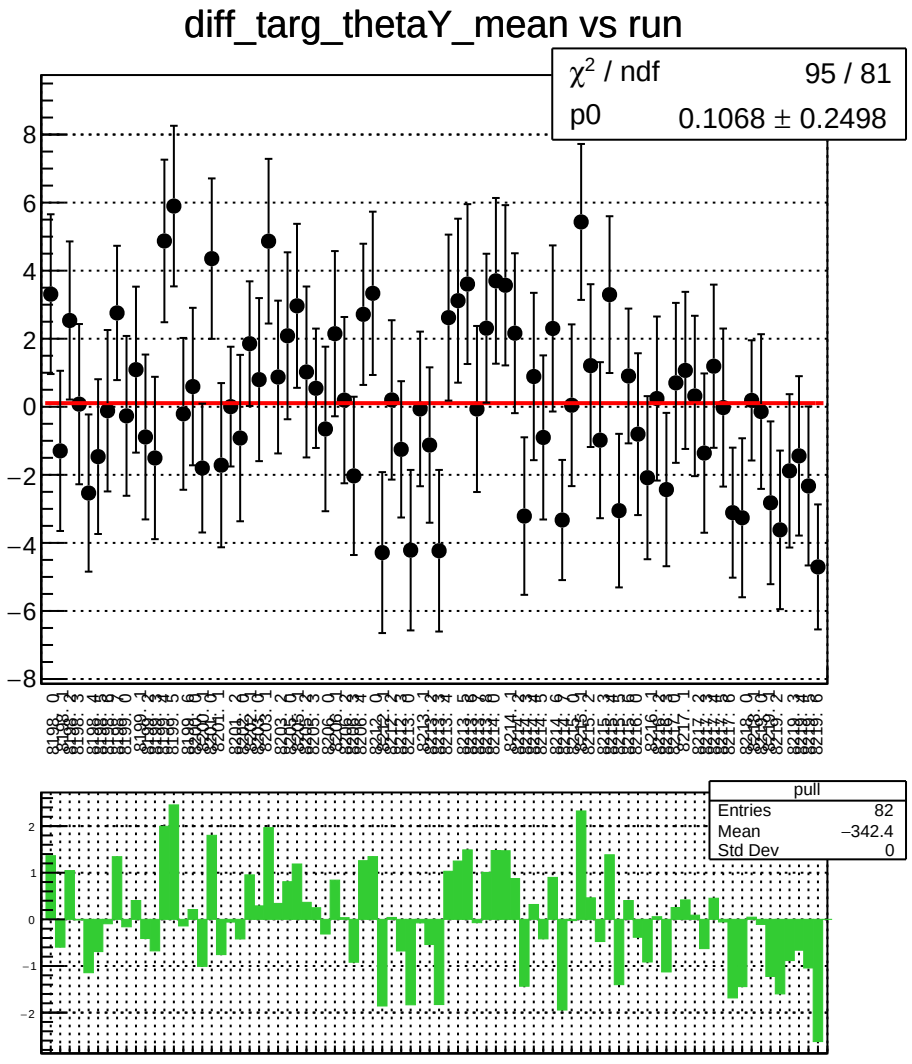

pull1D
Entries 82
Mean −0.008346
Std Dev 0.9769

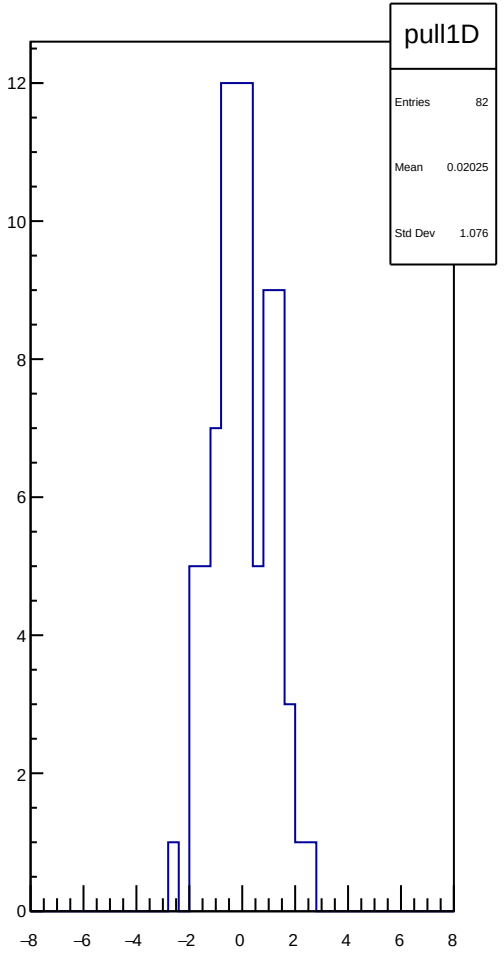

diff_targ_positionY_rms vs run
χ² / ndf 3.058e+04 / 81
p0 7733 ± 6.131
11000
10000
9000
8000
7000
6000

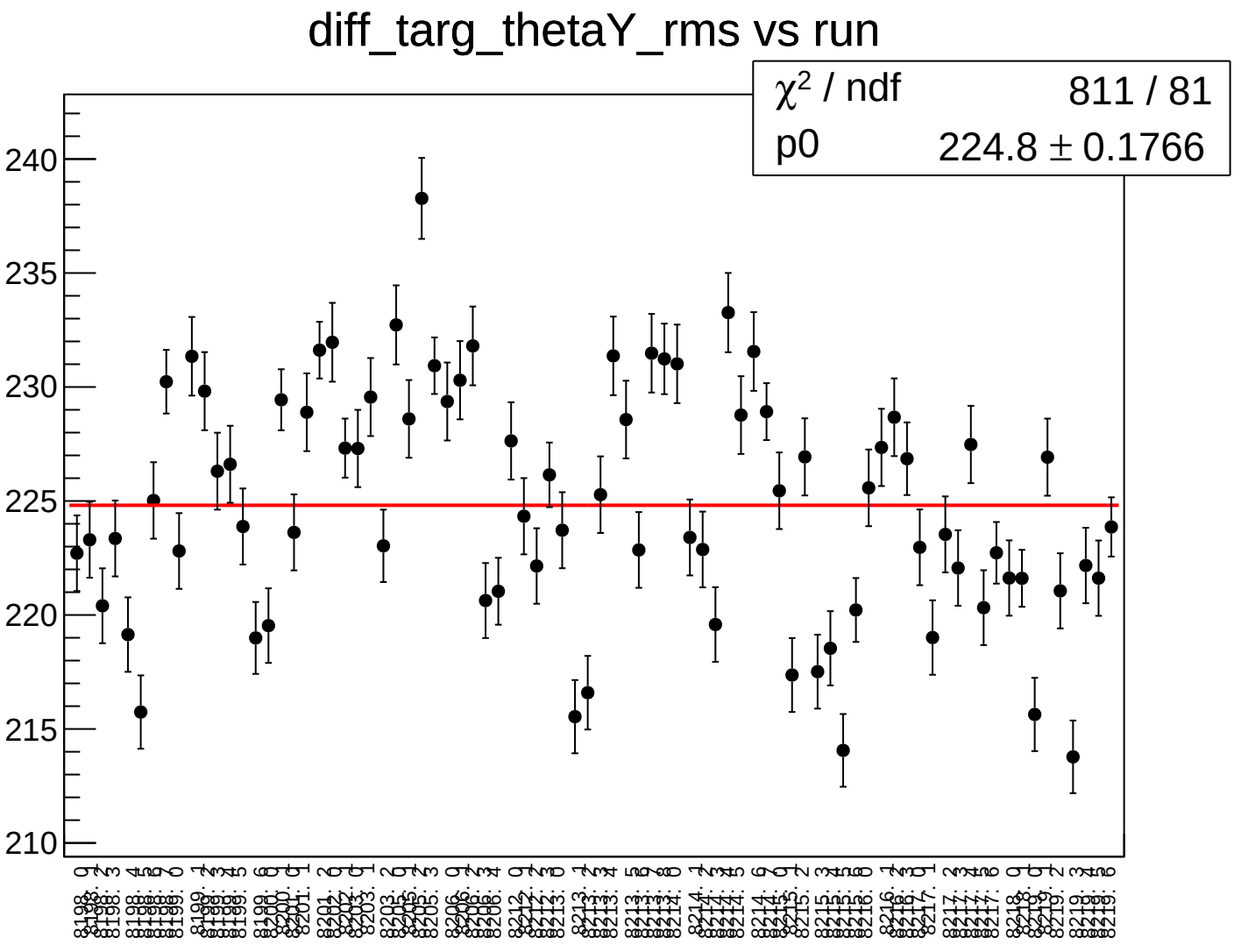

diff_targ_thetaX_mean vs run
χ² / ndf 79.04 / 81
p0 0.4591± 0.4131
pull
Entries 82
Mean −321.1
Std Dev 0

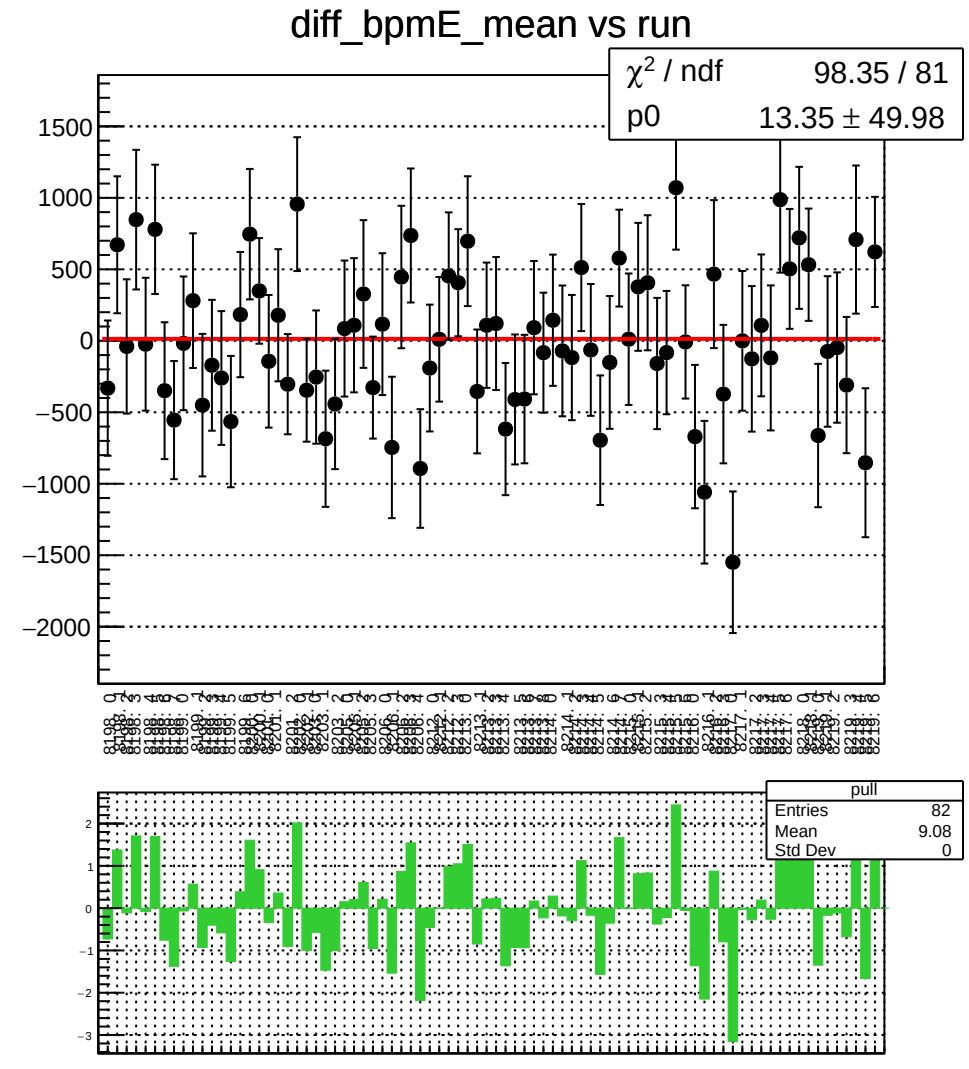

pull1D
Entries 82
Mean −0.001271
Std Dev 0.9818

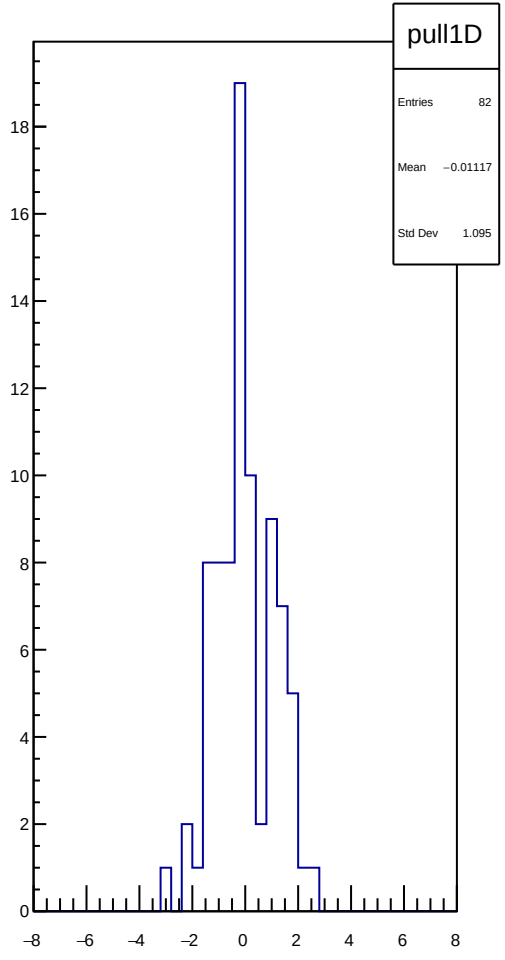

diff_targ_thetaX_rms vs run
χ² / ndf 4222 / 81
p0 371.5 ± 0.2921
430
420
410
400
390
380
370
360
350
340

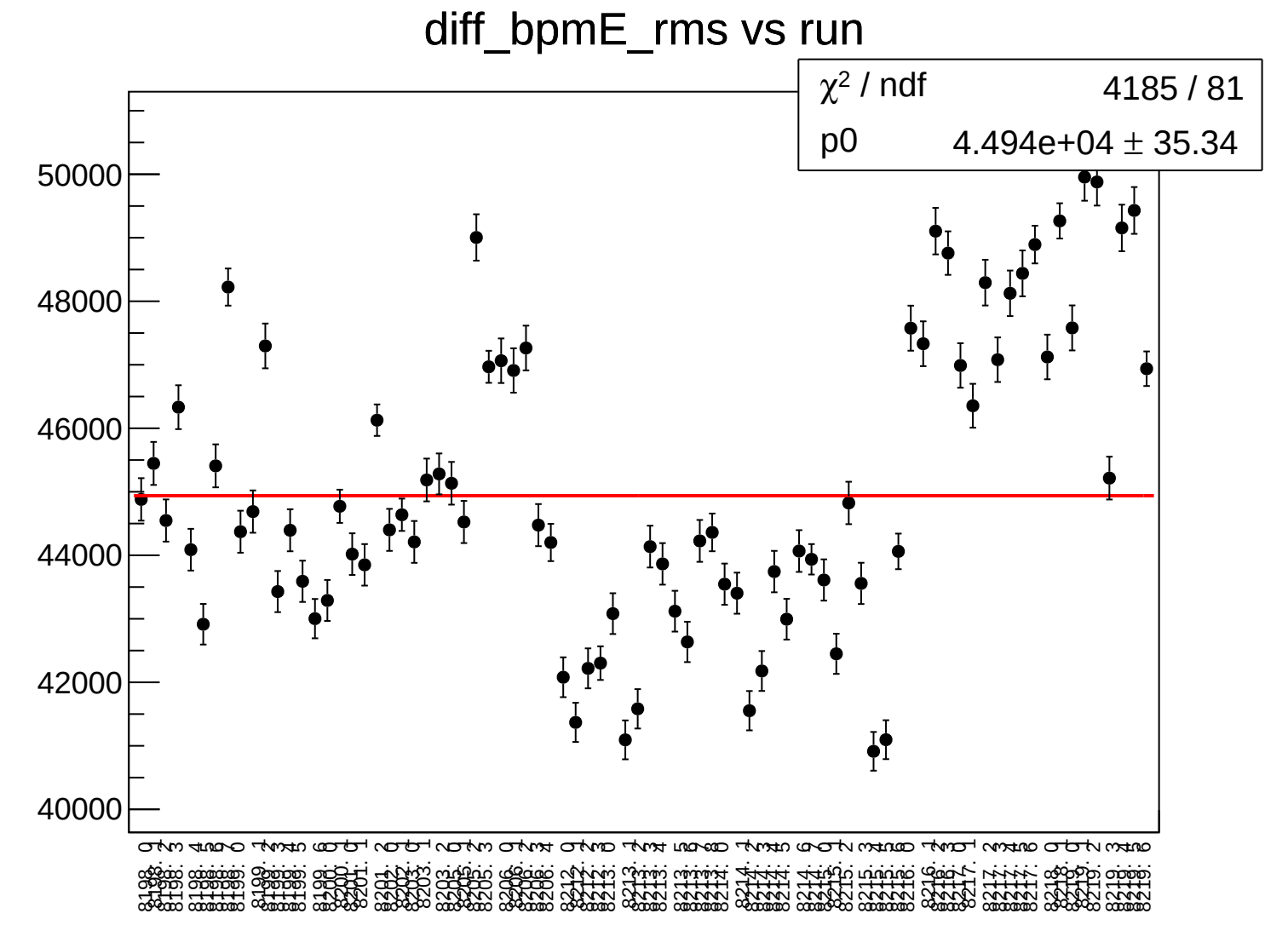

diff_targ_thetaY_mean vs run
χ² / ndf 95 / 81
p0 0.1068 ± 0.2498
pull
Entries 82
Mean −342.4
Std Dev 0

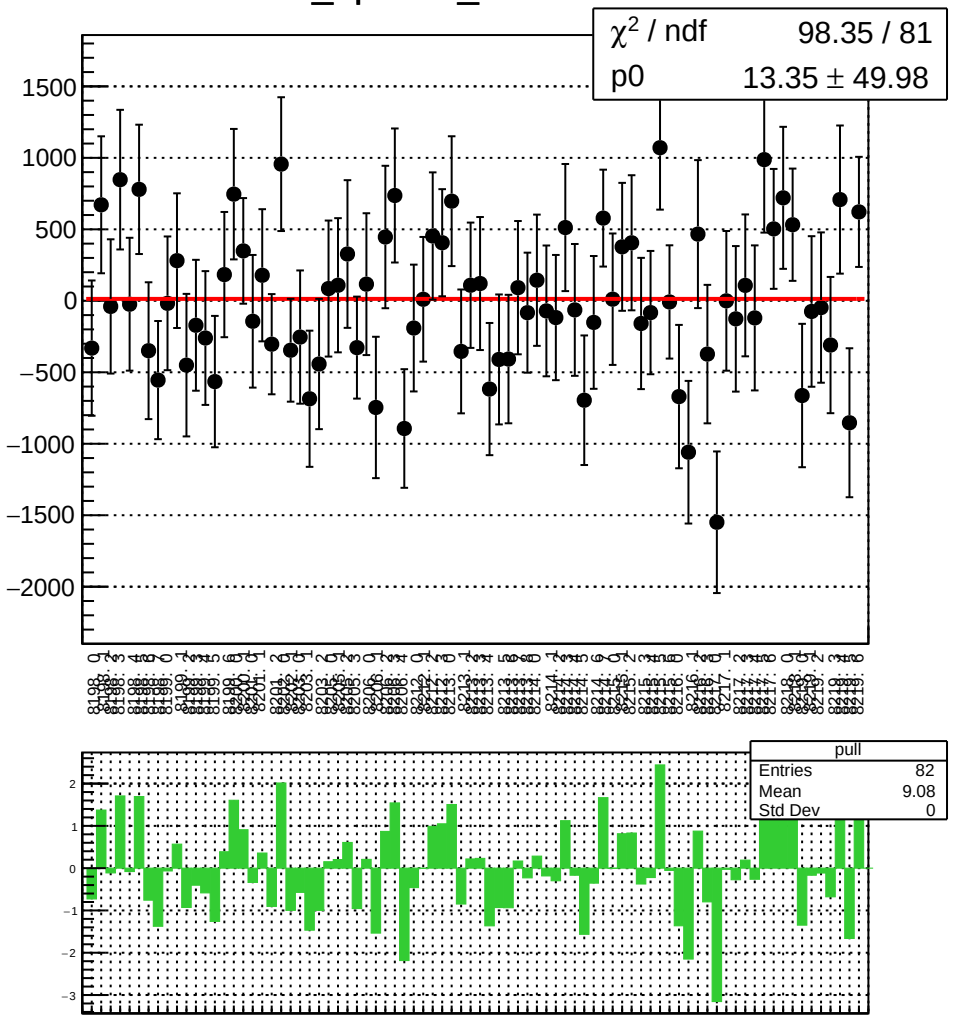

pull1D
Entries 82
Mean 0.02025
Std Dev 1.076

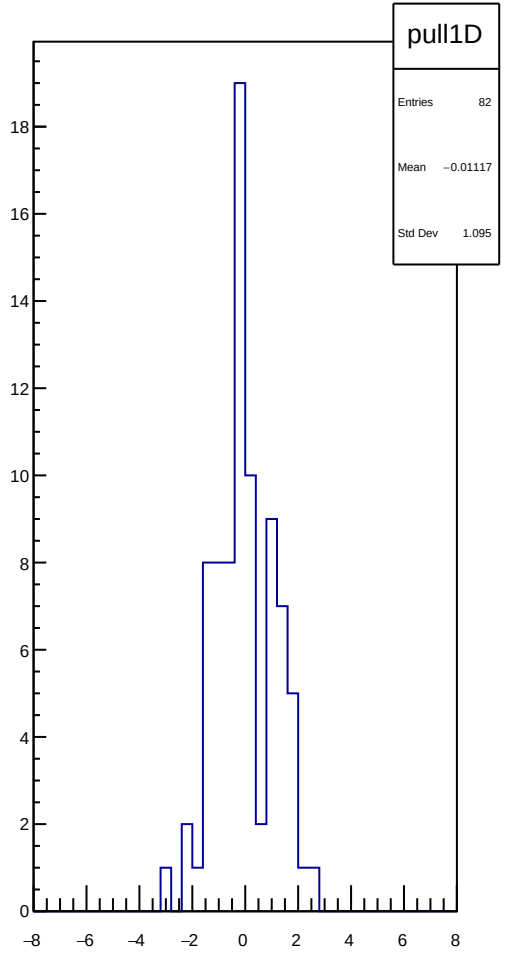

diff_targ_thetaY_rms vs run
χ² / ndf 811 / 81
p0 224.8 ± 0.1766
240
235
230
225
220
215
210

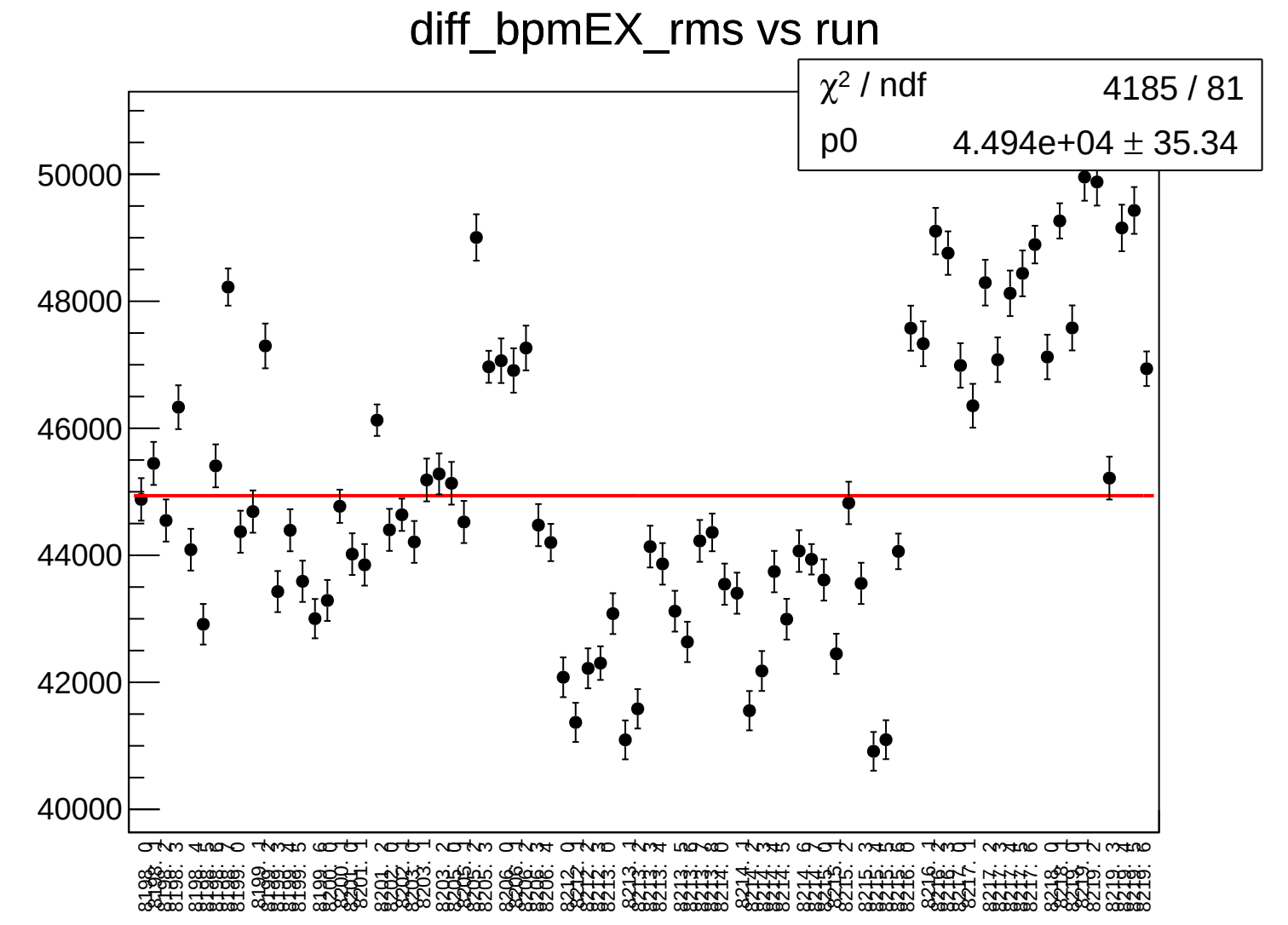

diff_bpmE_mean vs run
χ² / ndf 98.35 / 81
p0 13.35 ± 49.98
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 82
Mean 9.08
Std Dev 0
2
1
0
−1
−2
−3

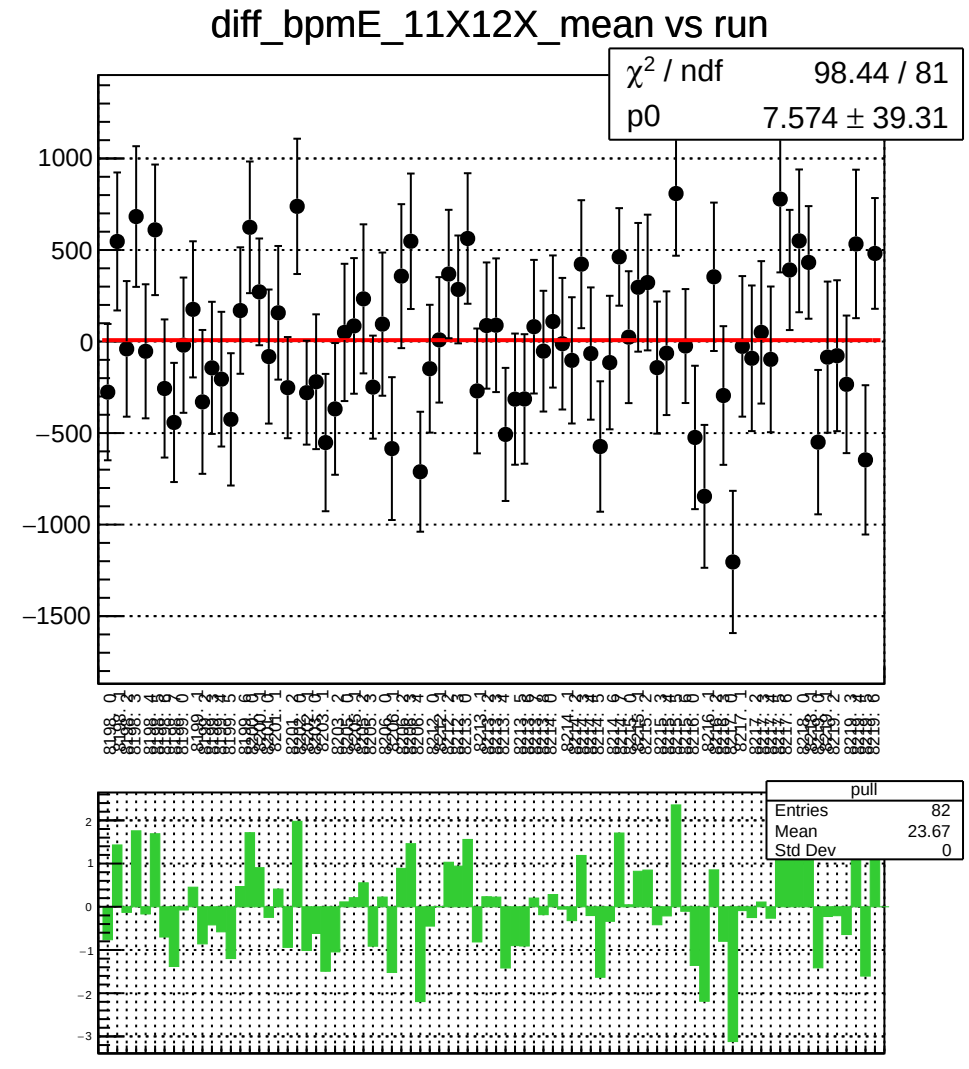

pull1D
Entries 82
Mean −0.01117
Std Dev 1.095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

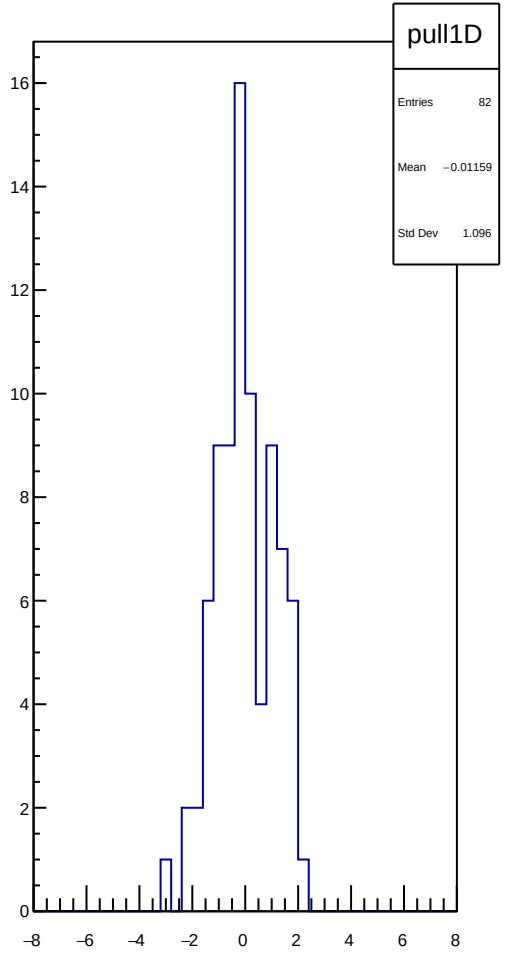

diff_bpmE_rms vs run
χ² / ndf 4185 / 81
p0 4.494e+04 ± 35.34
50000
48000
46000
44000
42000
40000

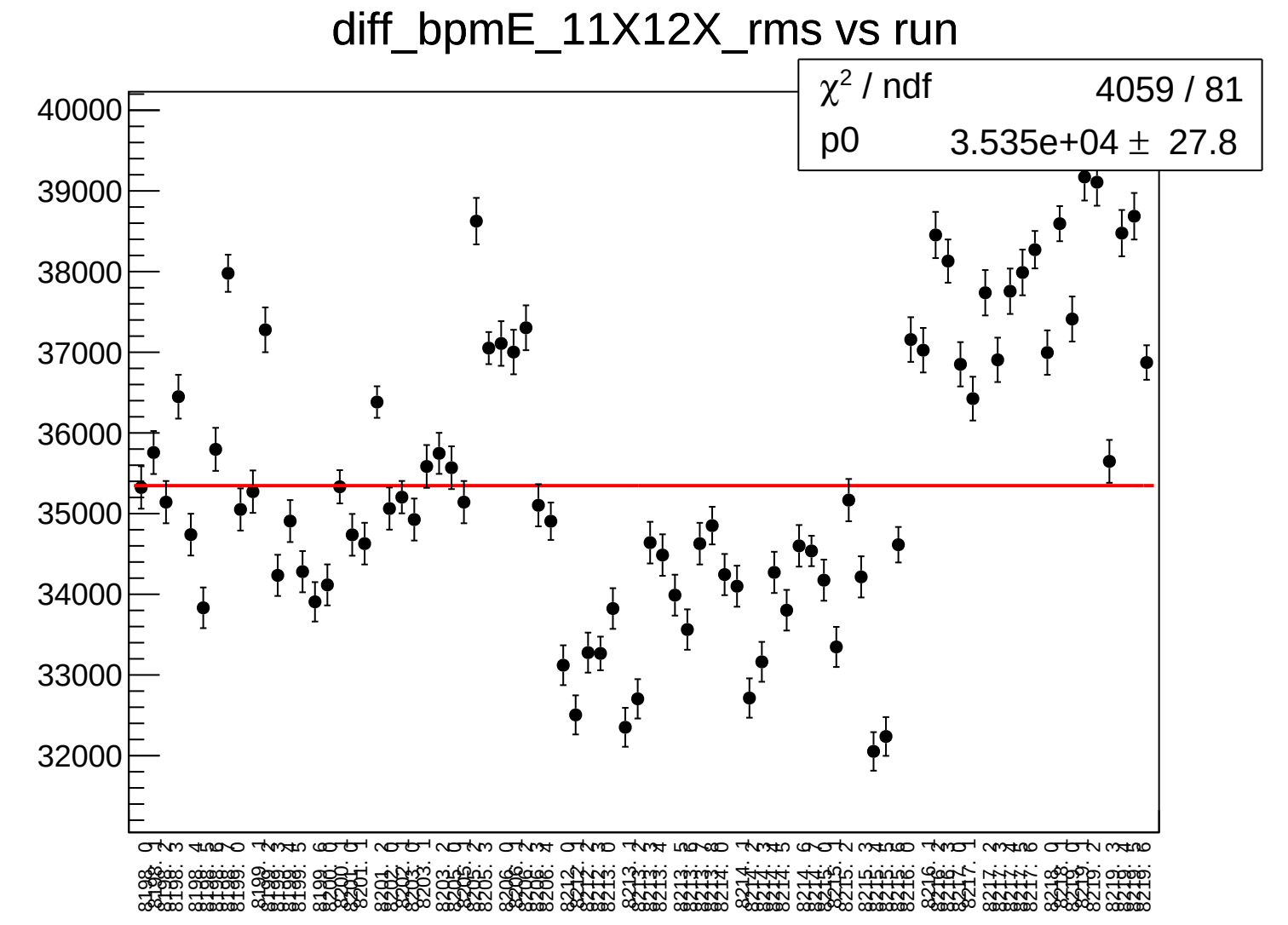

diff_bpmEX_mean vs run
χ² / ndf 98.35 / 81
p0 13.35 ± 49.98
pull
Entries 82
Mean 9.08
Std Dev 0

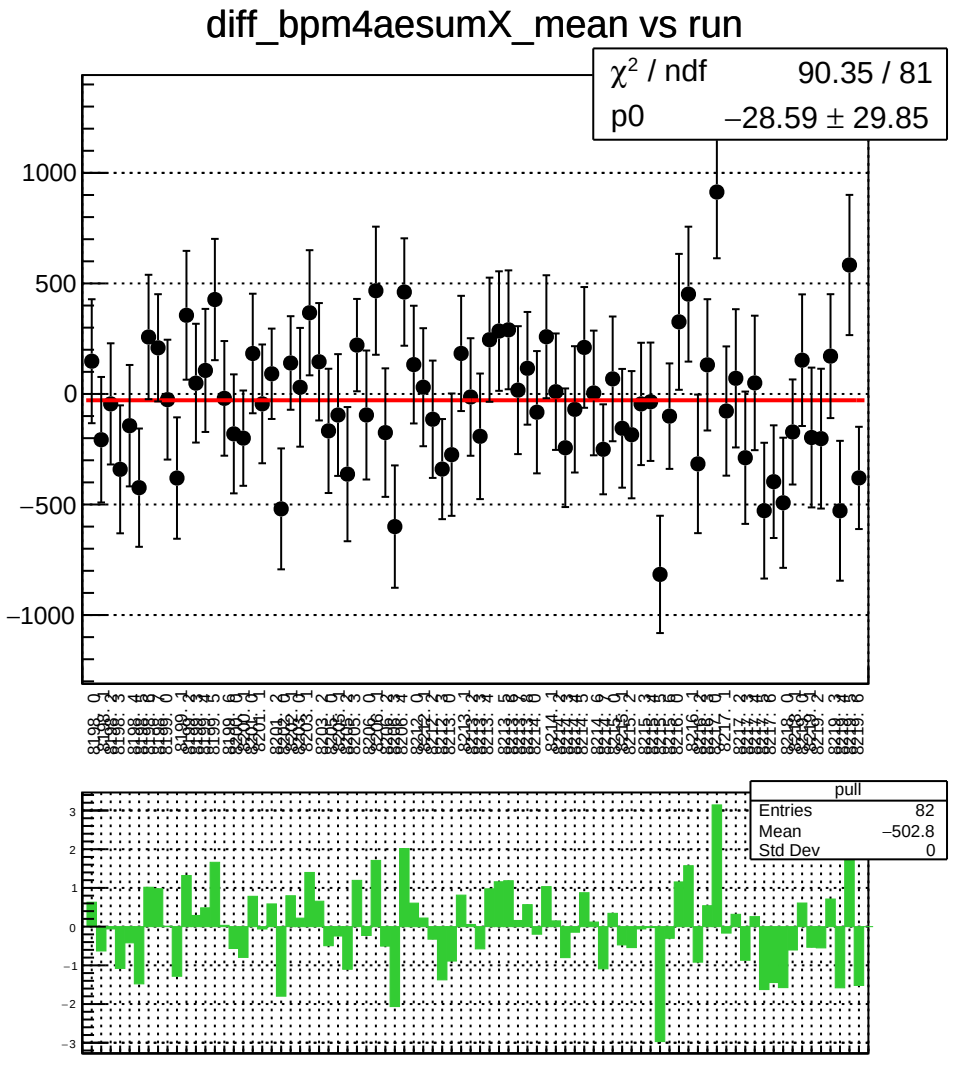

pull1D
Entries 82
Mean −0.01117
Std Dev 1.095

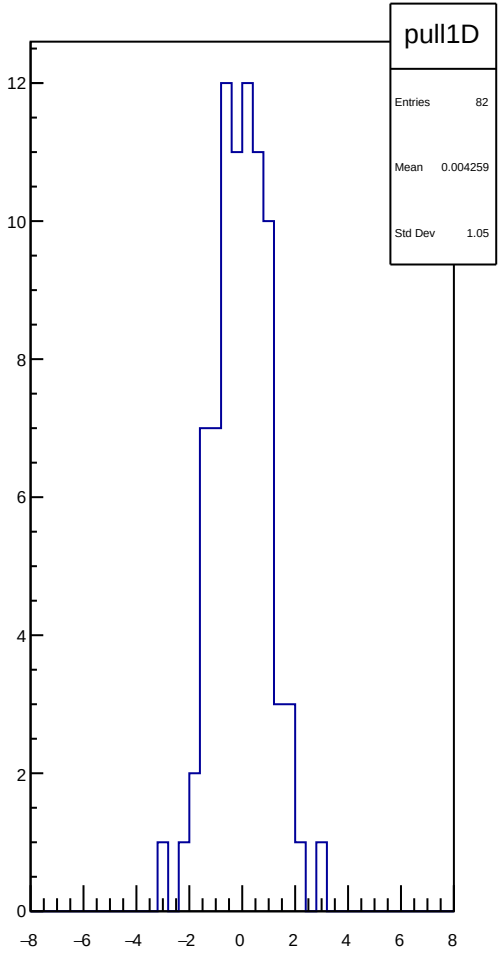

diff_bpmEX_rms vs run
χ² / ndf 4185 / 81
p0 4.494e+04 ± 35.34
50000
48000
46000
44000
42000
40000

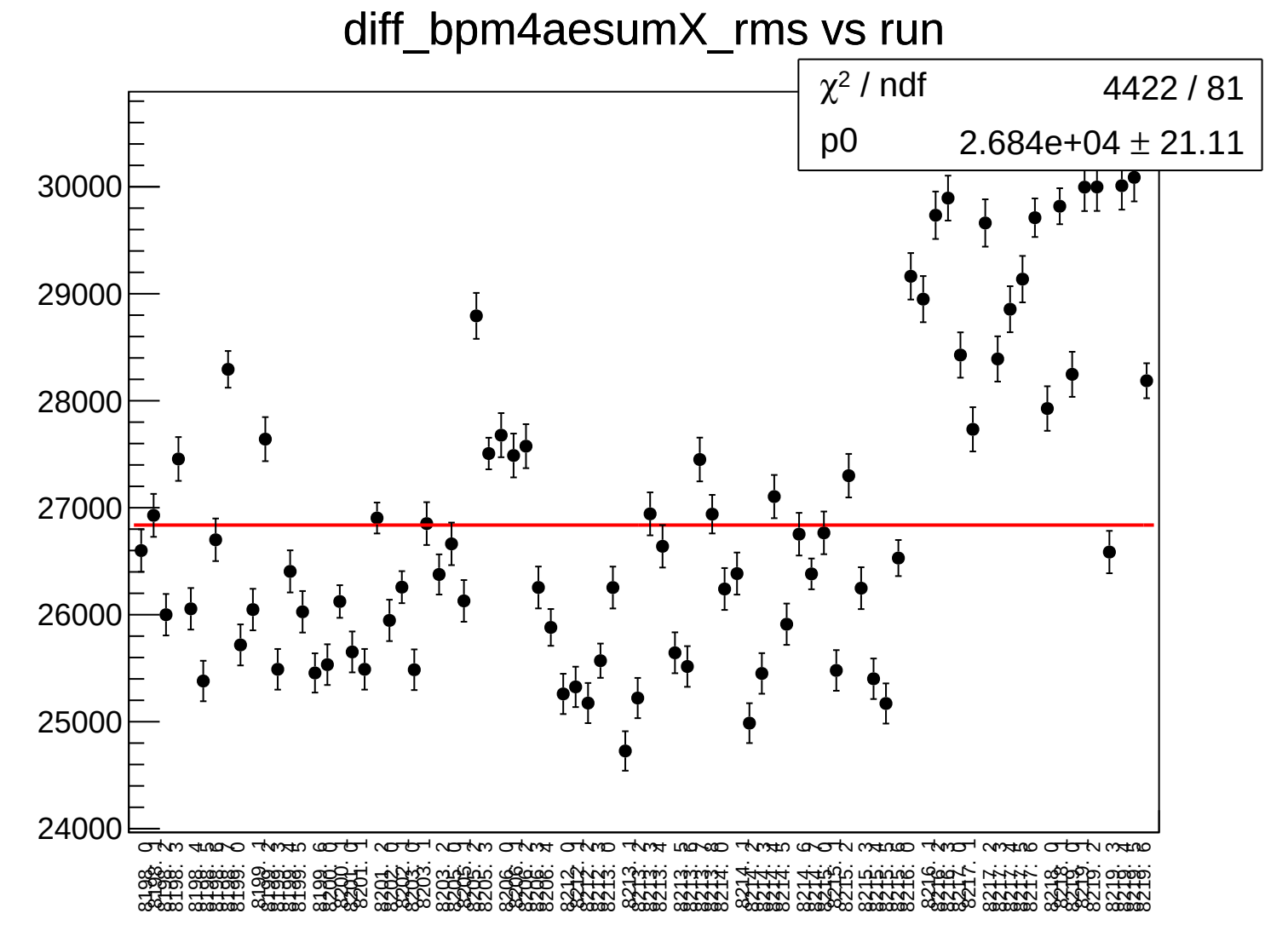

diff_bpmE_11X12X_mean vs run
χ² / ndf 98.44 / 81
p0 7.574 ± 39.31
1000
500
0
−500
−1000
−1500
pull
Entries 82
Mean 23.67
Std Dev 0
2
1
0
−1
−2
−3

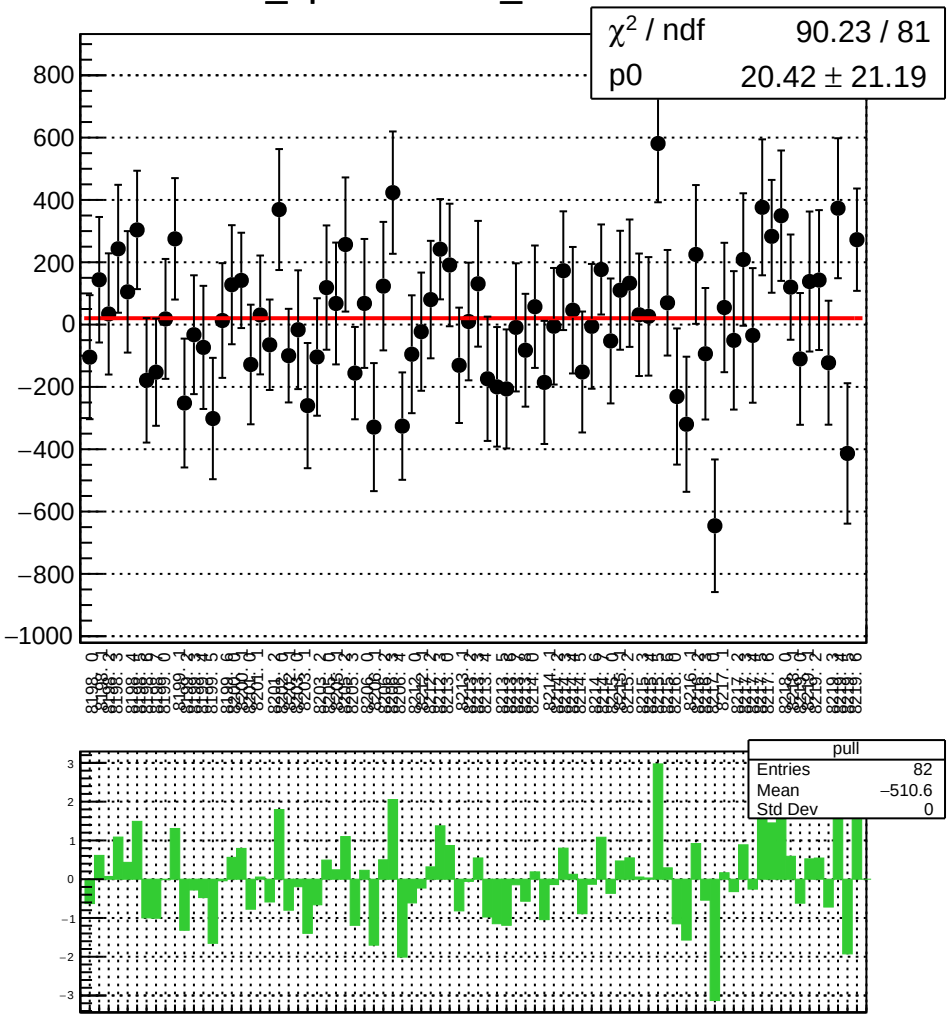

pull1D
Entries 82
Mean −0.01159
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

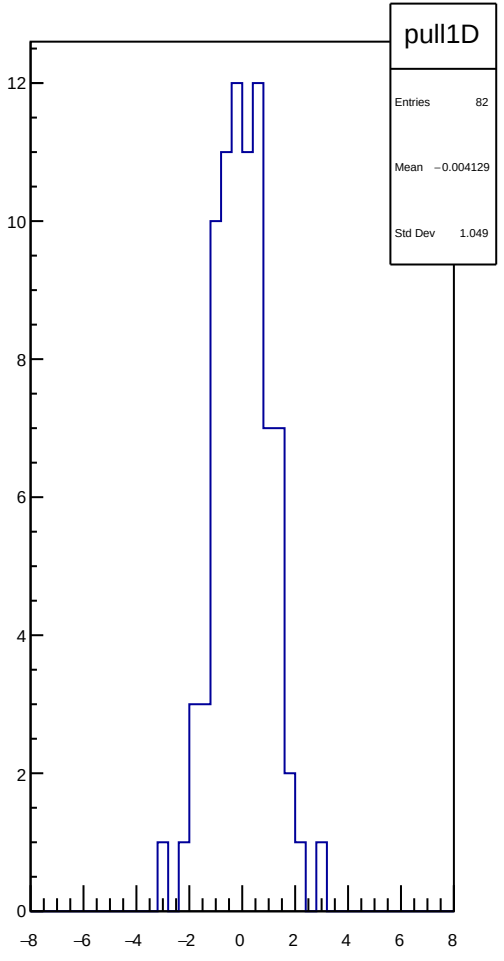

diff_bpmE_11X12X_rms vs run
χ² / ndf 4059 / 81
p0 3.535e+04 ± 27.8
40000
39000
38000
37000
36000
35000
34000
33000
32000

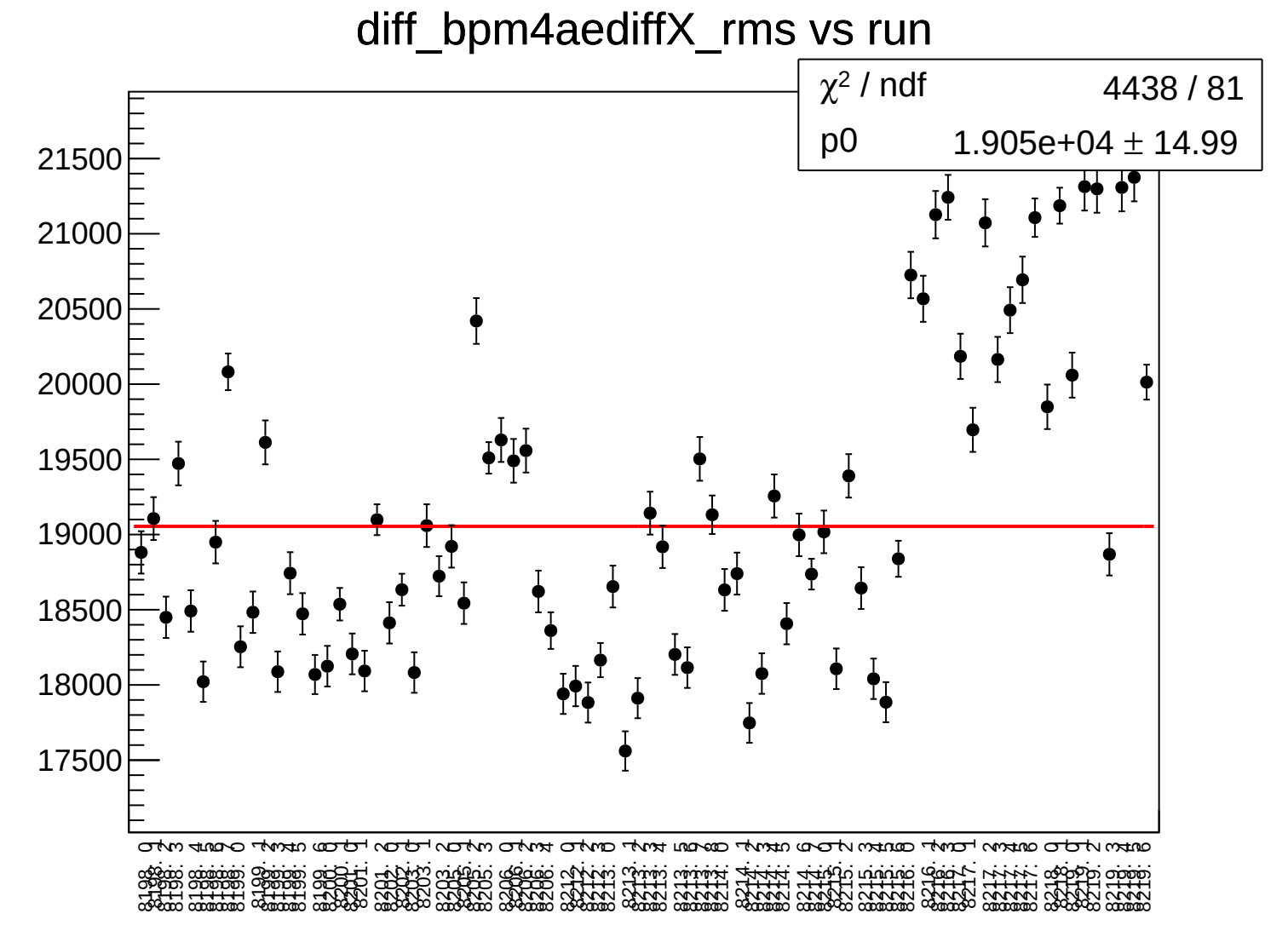

diff_bpm4aesumX_mean vs run
χ² / ndf 90.35 / 81
p0 −28.59 ± 29.85
1000
500
0
−500
−1000
pull
Entries 82
Mean −502.8
Std Dev 0
3
2
1
0
−1
−2
−3

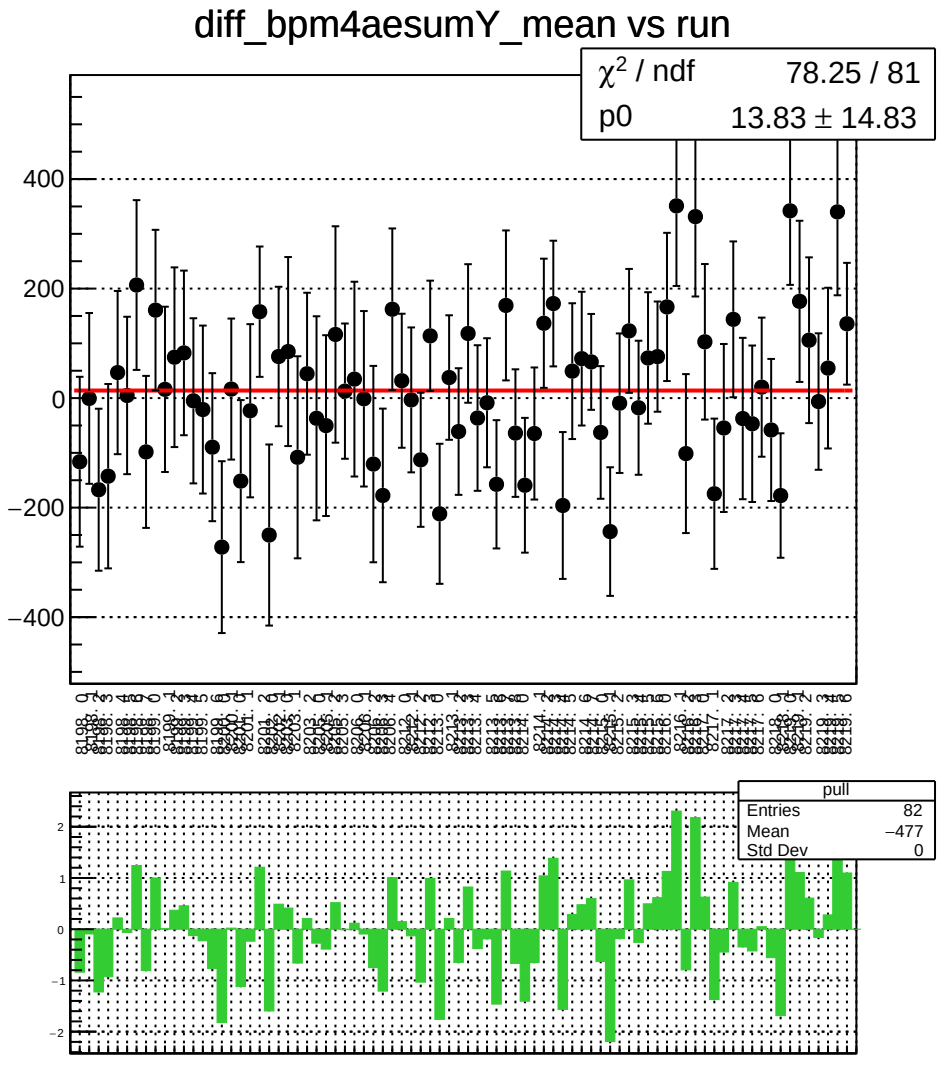

pull1D
Entries 82
Mean 0.004259
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

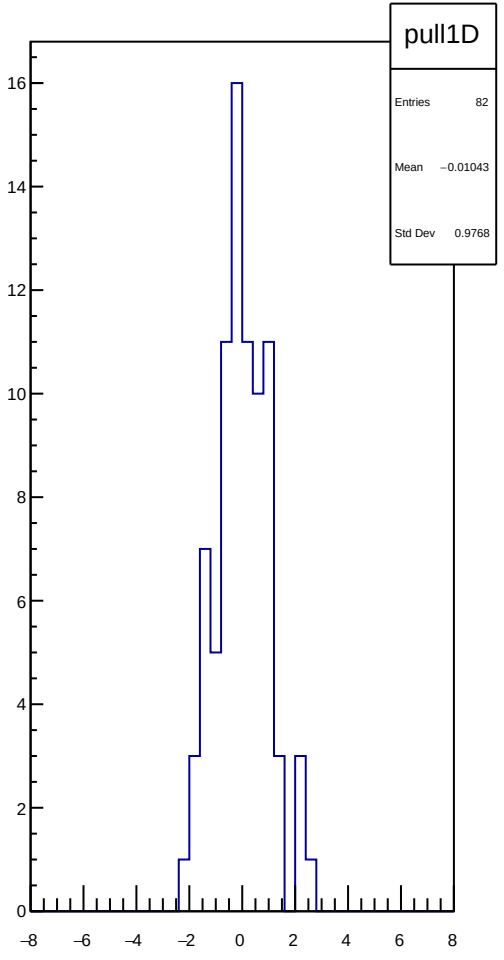

diff_bpm4aesumX_rms vs run
χ² / ndf 4422 / 81
p0 2.684e+04 ± 21.11
30000
29000
28000
27000
26000
25000
24000

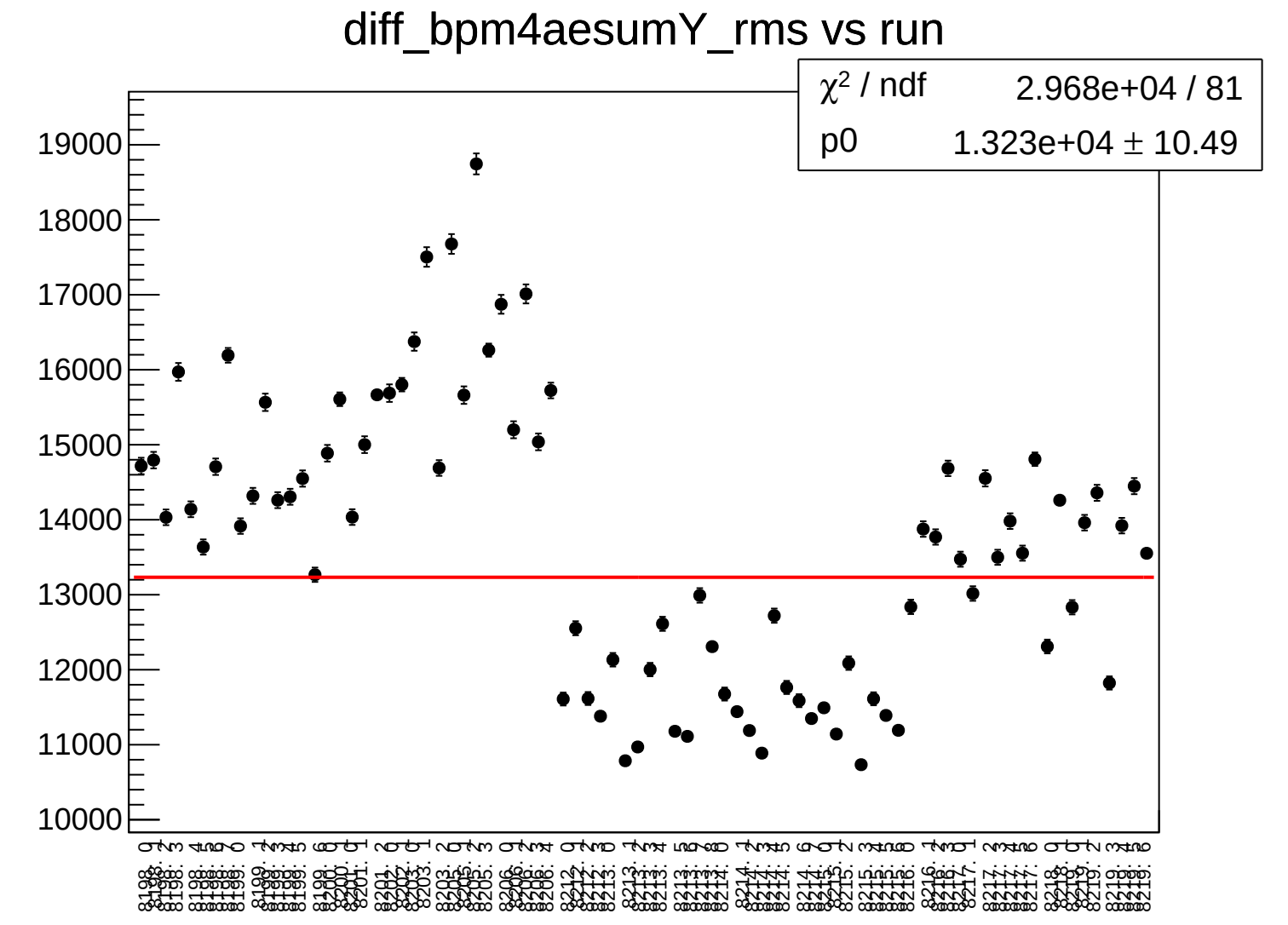

diff_bpm4aediffX_mean vs run
χ² / ndf 90.23 / 81
p0 20.42 ± 21.19
pull
Entries 82
Mean −510.6
Std Dev 0

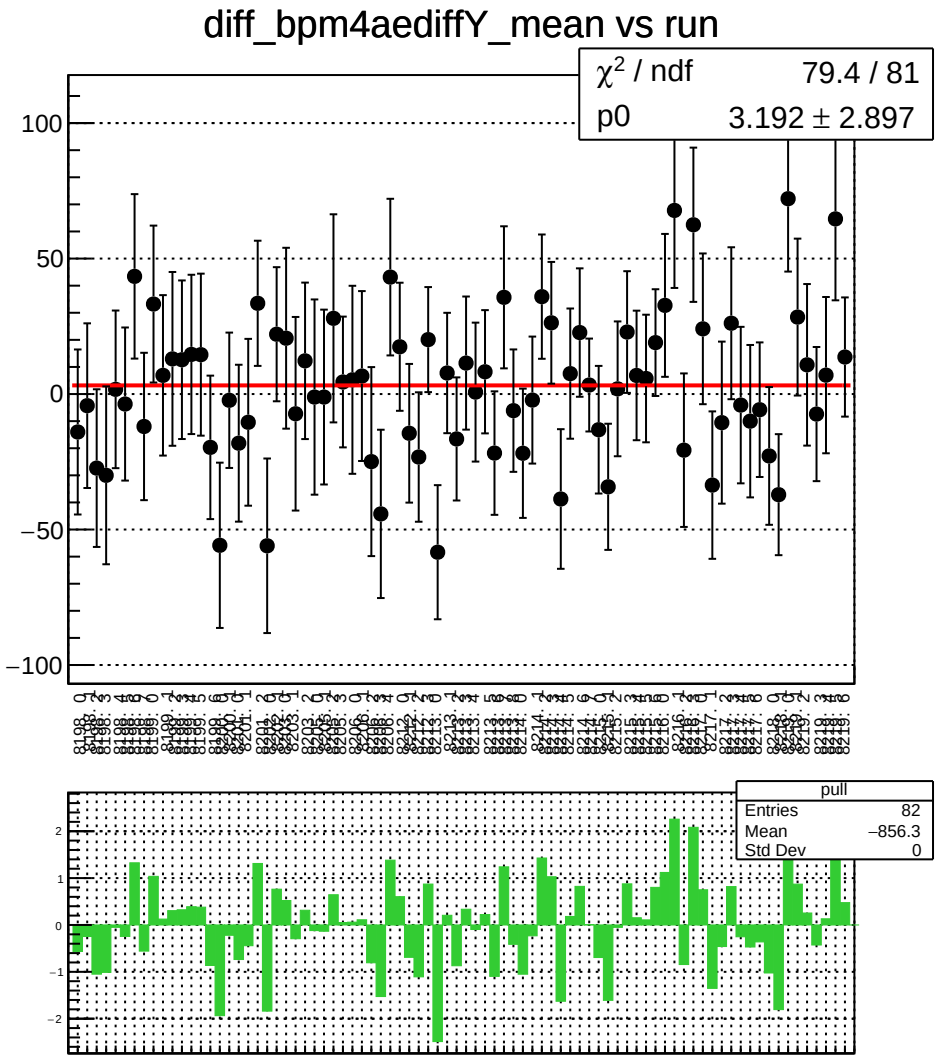

pull1D
Entries 82
Mean −0.004129
Std Dev 1.049

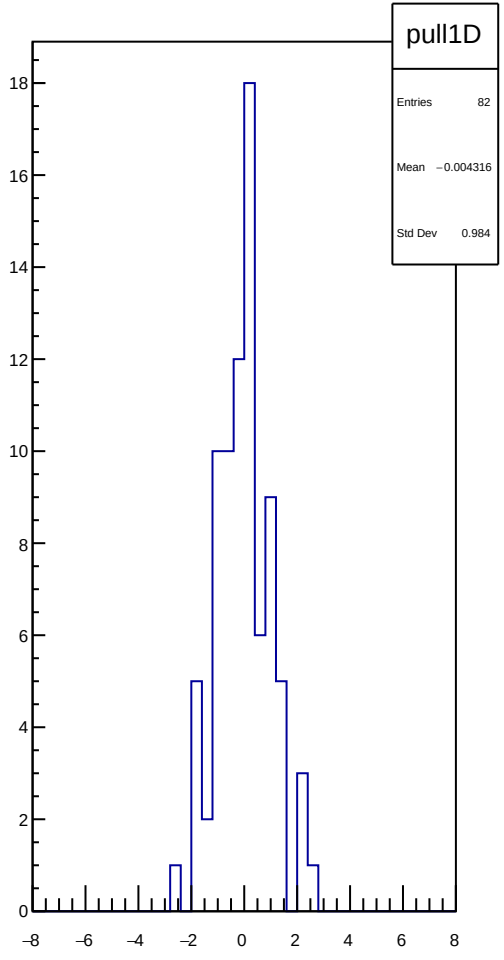

diff_bpm4aediffX_rms vs run
χ² / ndf 4438 / 81
p0 1.905e+04 ± 14.99
21500
21000
20500
20000
19500
19000
18500
18000
17500

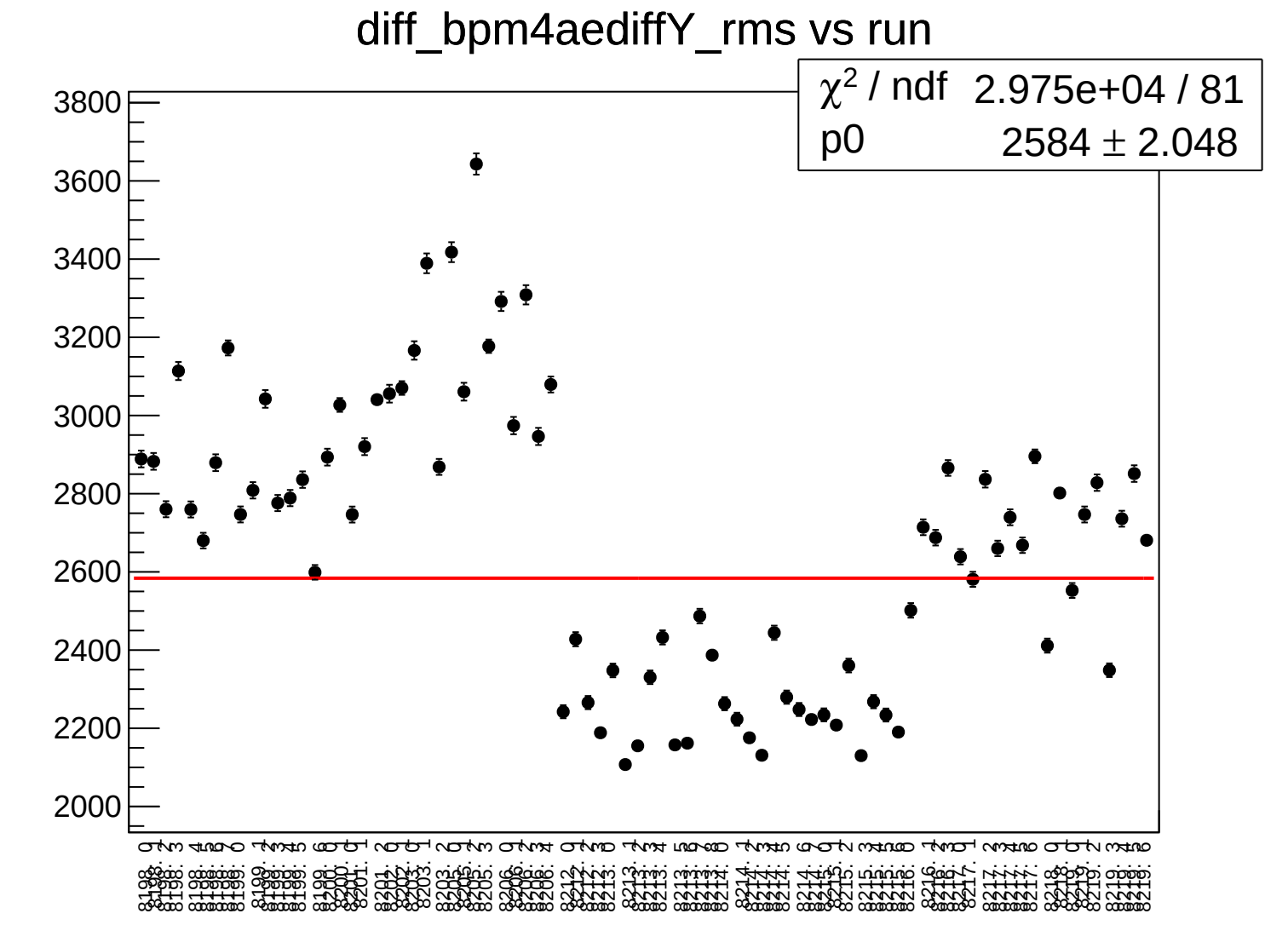

diff_bpm4aesumY_mean vs run
χ² / ndf 78.25 / 81
p0 13.83 ± 14.83
400
200
0
−200
−400
pull
Entries 82
Mean −477
Std Dev 0
2
1
0
−1
−2

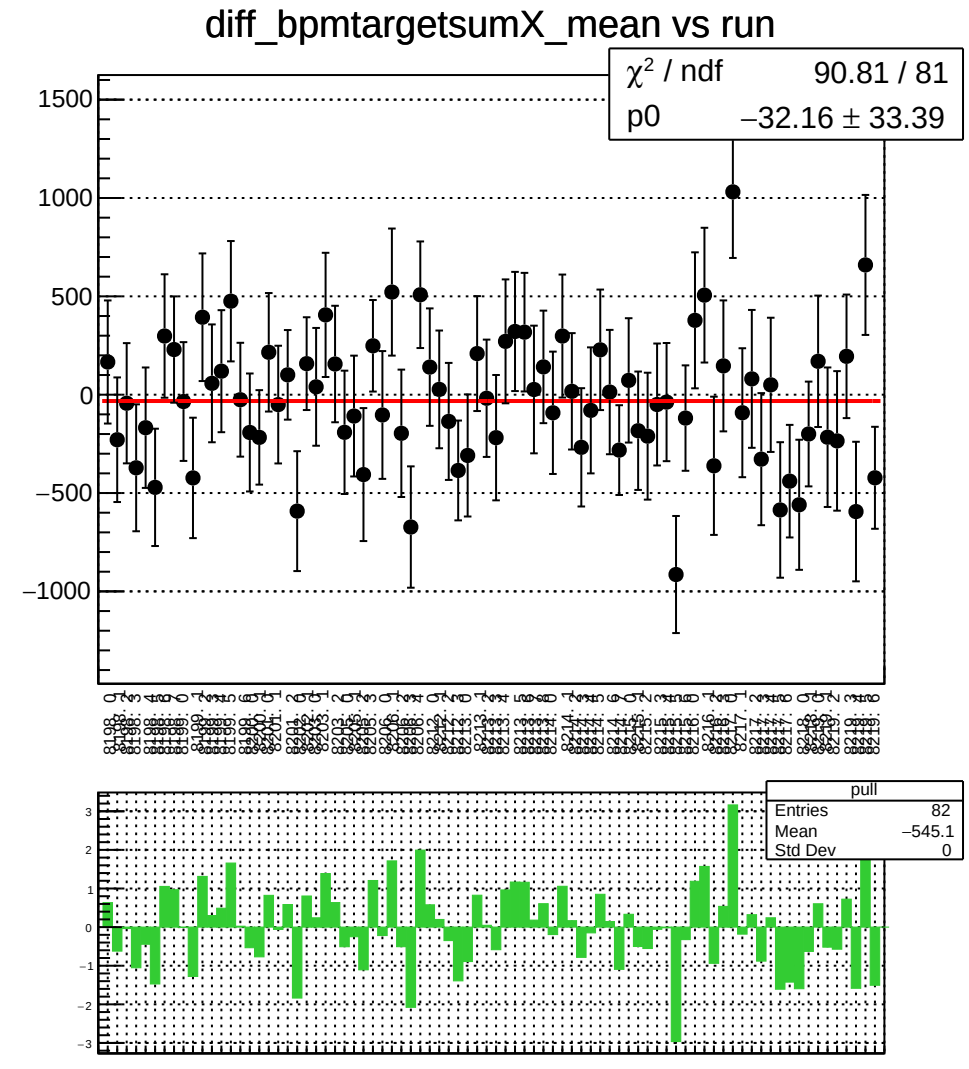

pull1D
Entries 82
Mean −0.01043
Std Dev 0.9768
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

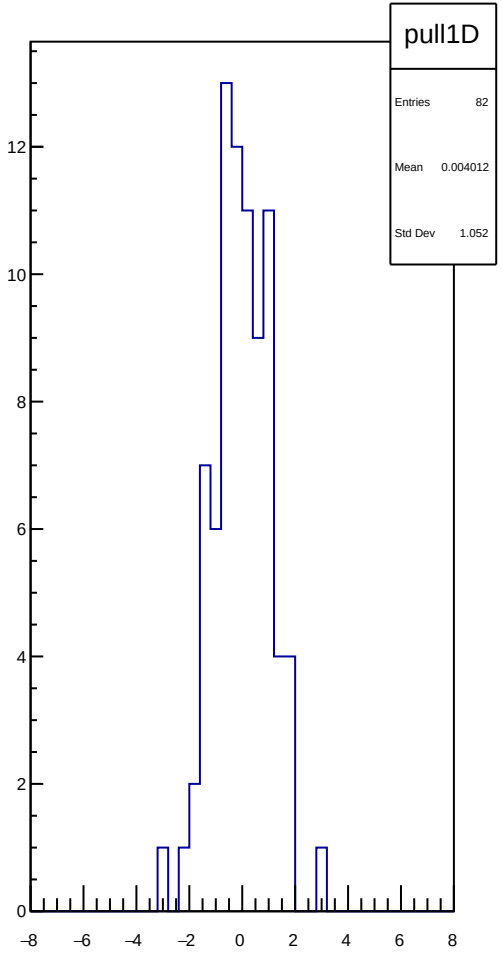

diff_bpm4aesumY_rms vs run
χ² / ndf 2.968e+04 / 81
p0 1.323e+04 ± 10.49
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000

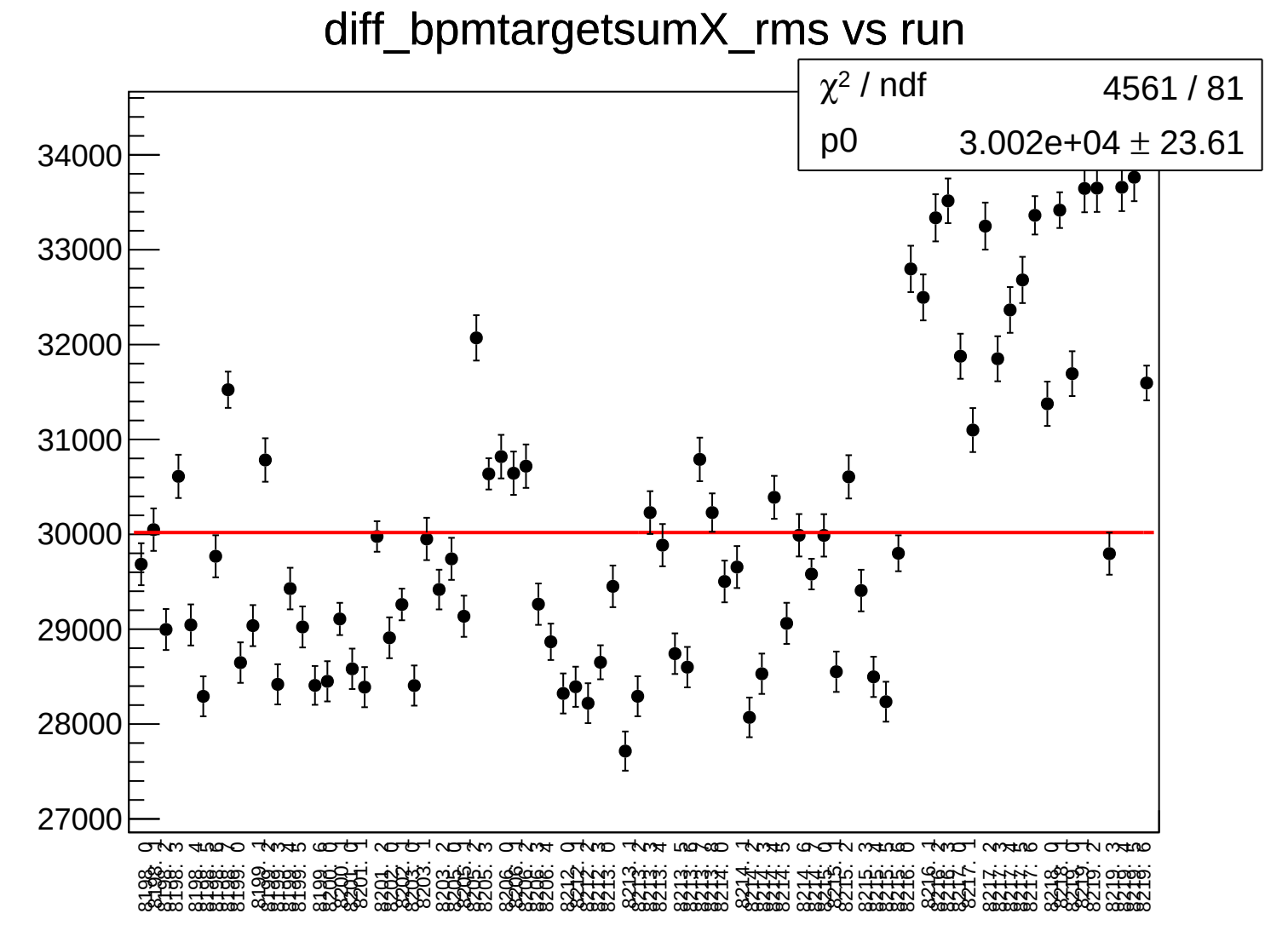

diff_bpm4aediffY_mean vs run
χ² / ndf 79.4 / 81
p0 3.192 ± 2.897
100
50
0
−50
−100
pull
Entries 82
Mean −856.3
Std Dev 0
2
1
0
−1
−2

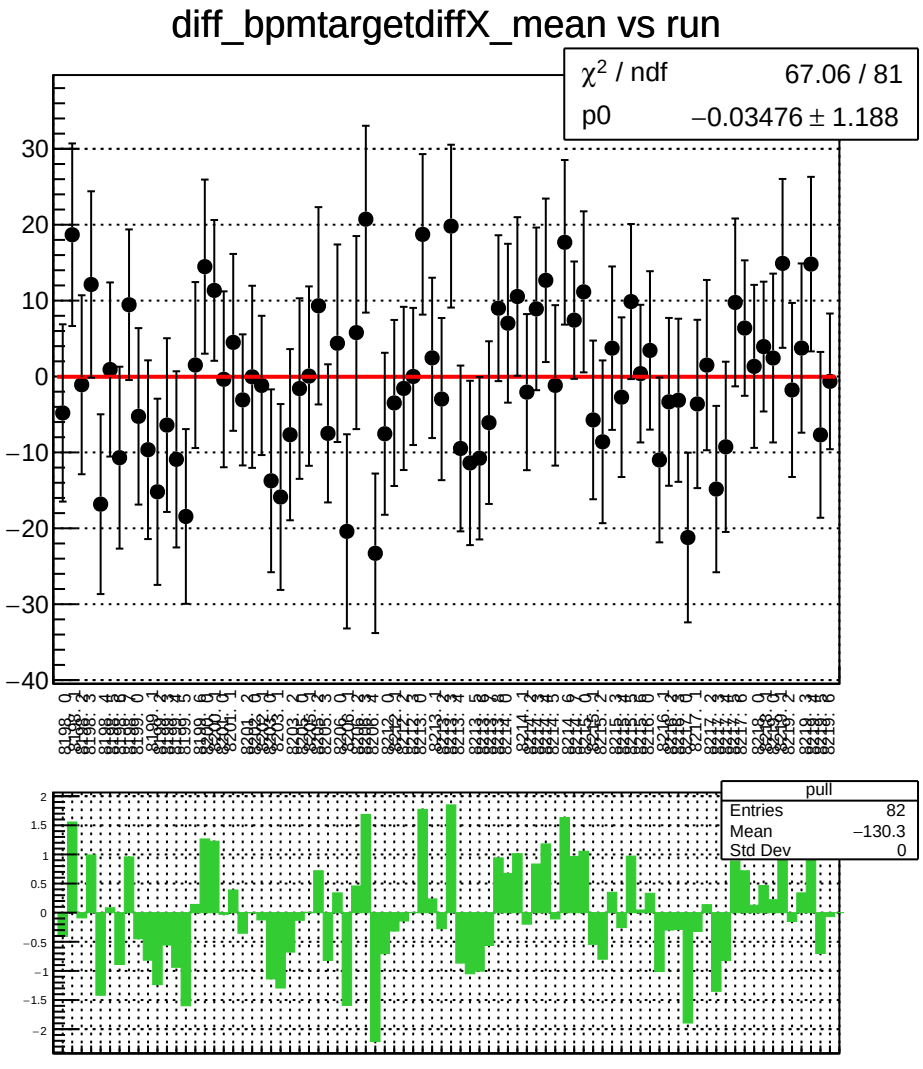

pull1D
Entries 82
Mean −0.004316
Std Dev 0.984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

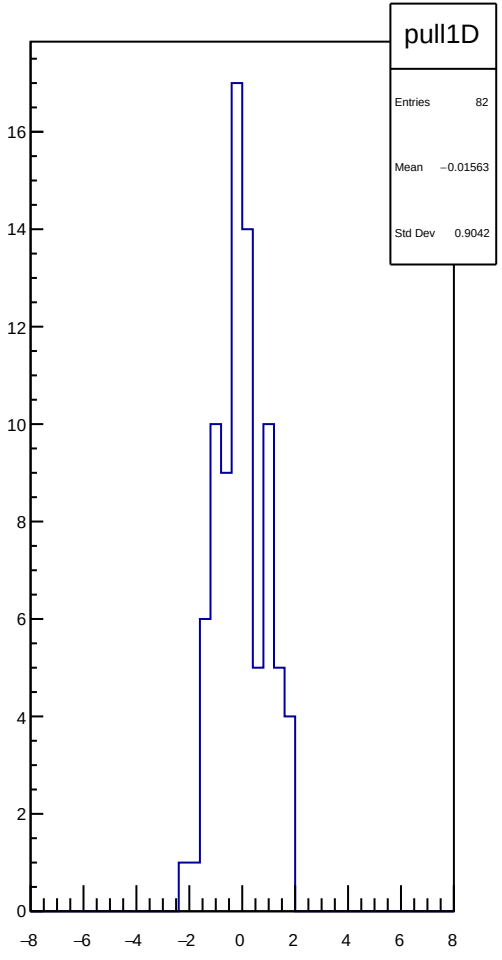

diff_bpm4aediffY_rms vs run
χ² / ndf 2.975e+04 / 81
p0 2584 ± 2.048
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000

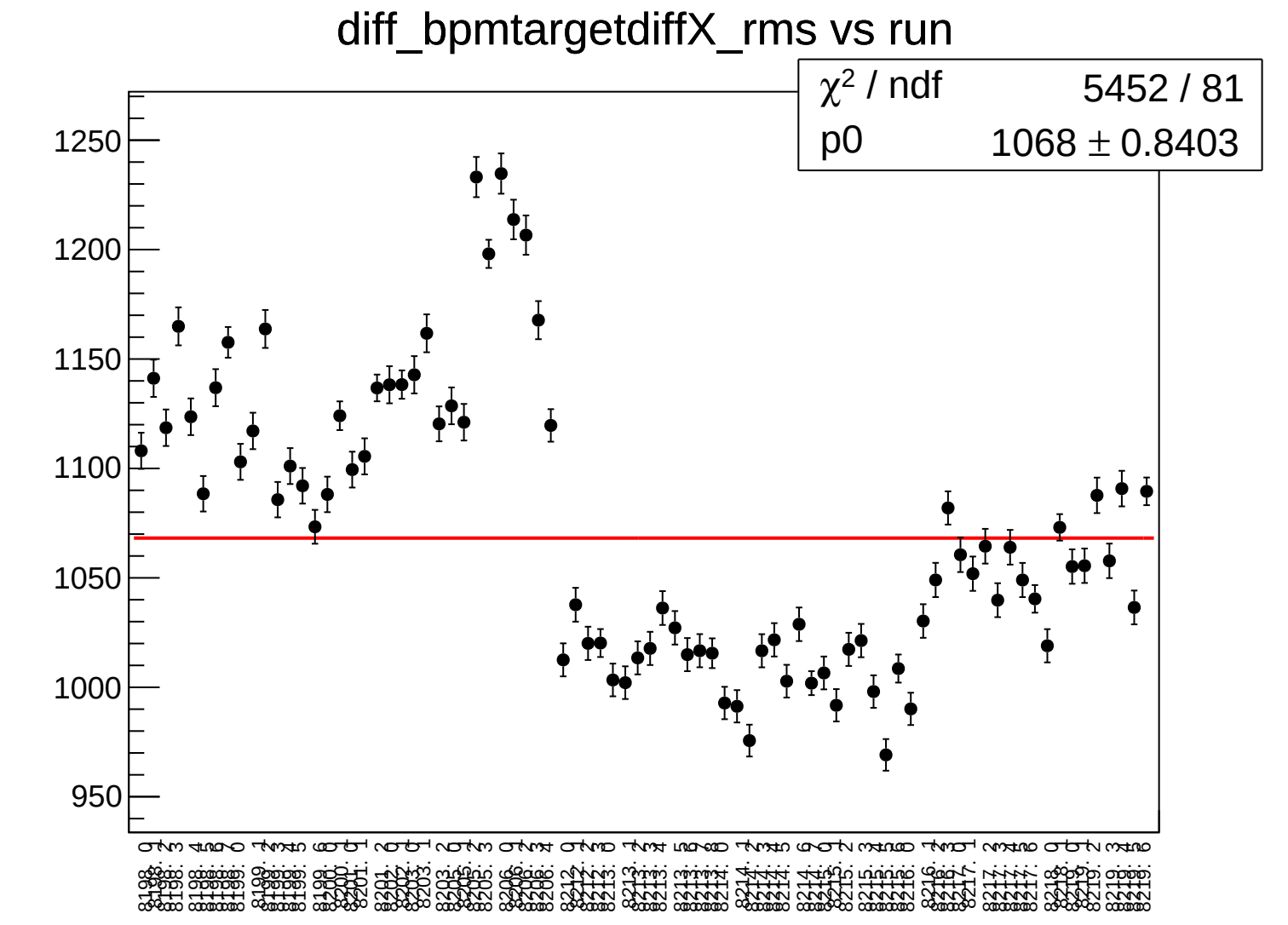

diff_bpmtargetsumX_mean vs run
χ² / ndf 90.81 / 81
p0 −32.16 ± 33.39
1500
1000
500
0
−500
−1000
pull
Entries 82
Mean −545.1
Std Dev 0
3
2
1
0
−1
−2
−3

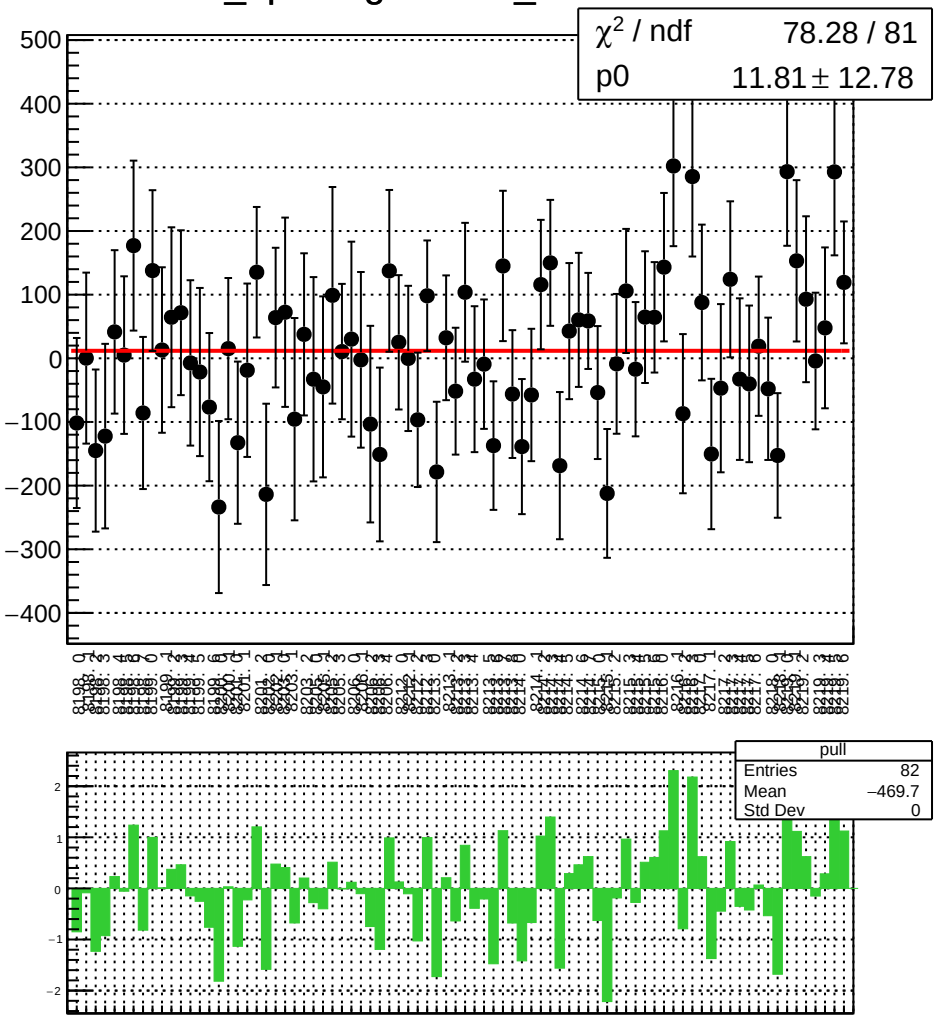

pull1D
Entries 82
Mean 0.004012
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

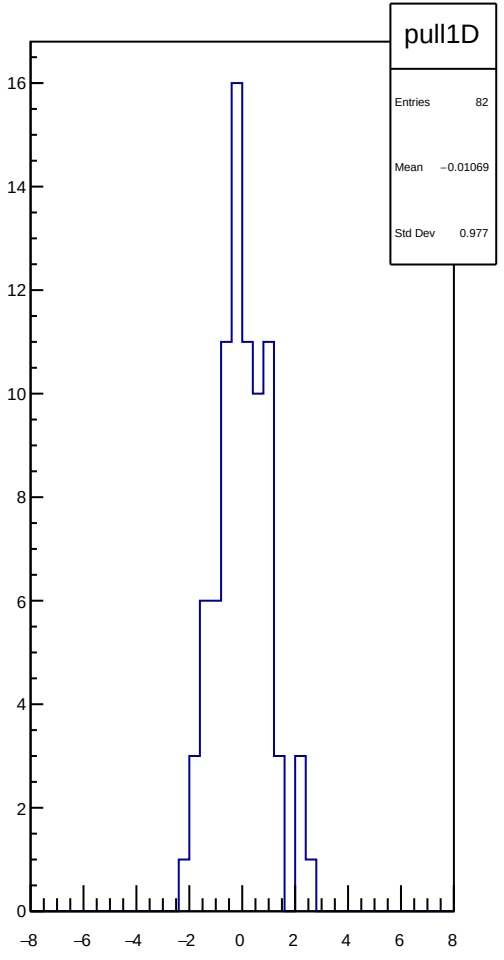

diff_bpmtargetsumX_rms vs run
χ² / ndf 4561 / 81
p0 3.002e+04 ± 23.61
34000
33000
32000
31000
30000
29000
28000
27000

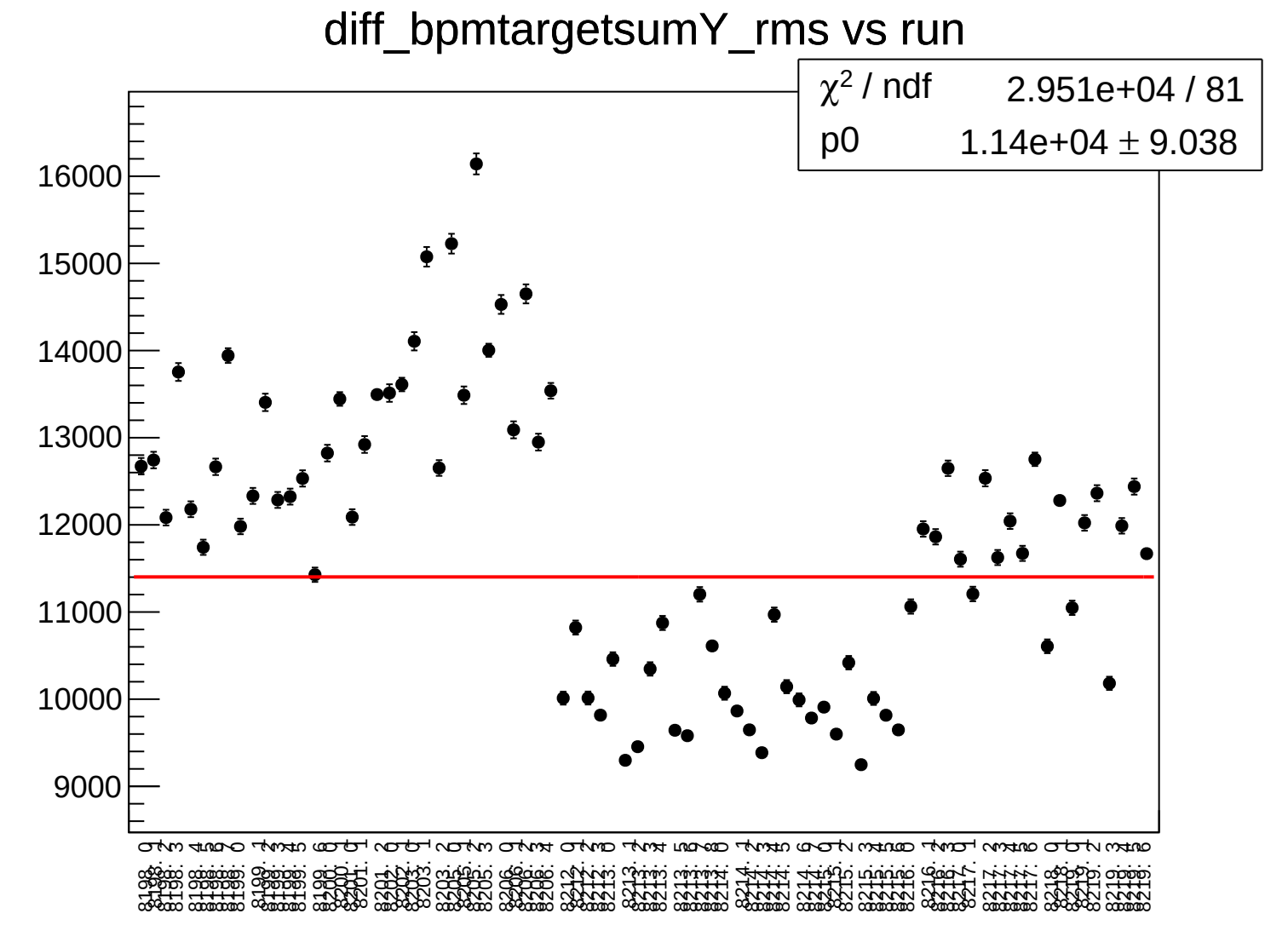

diff_bpmtargetdiffX_mean vs run
χ² / ndf 67.06 / 81
p0 −0.03476 ± 1.188
pull
Entries 82
Mean −130.3
Std Dev 0

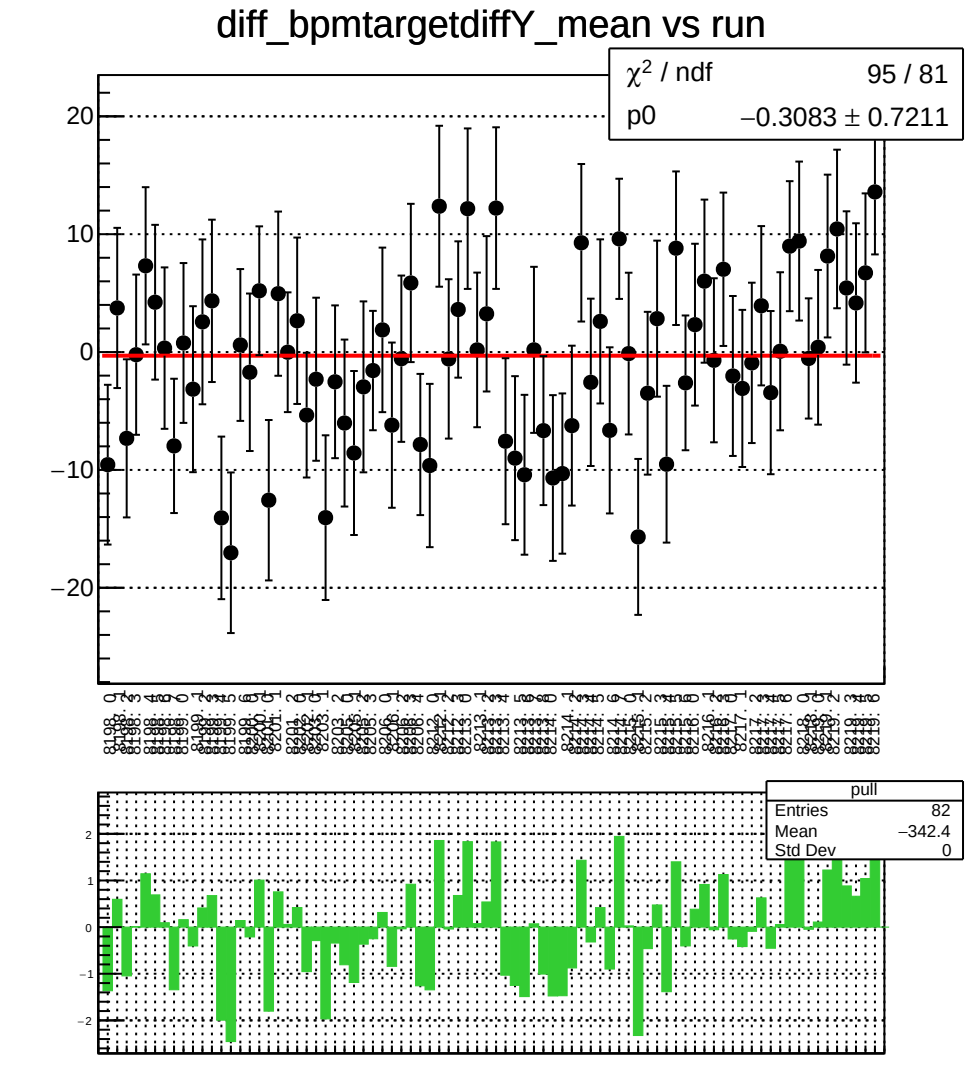

pull1D
Entries 82
Mean −0.01563
Std Dev 0.9042

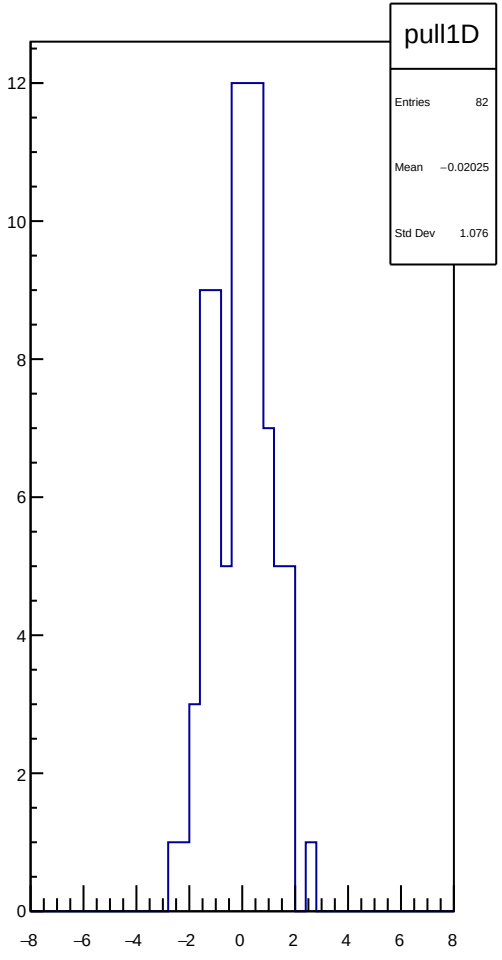

diff_bpmtargetdiffX_rms vs run
χ² / ndf 5452 / 81
p0 1068 ± 0.8403
1250
1200
1150
1100
1050
1000
950

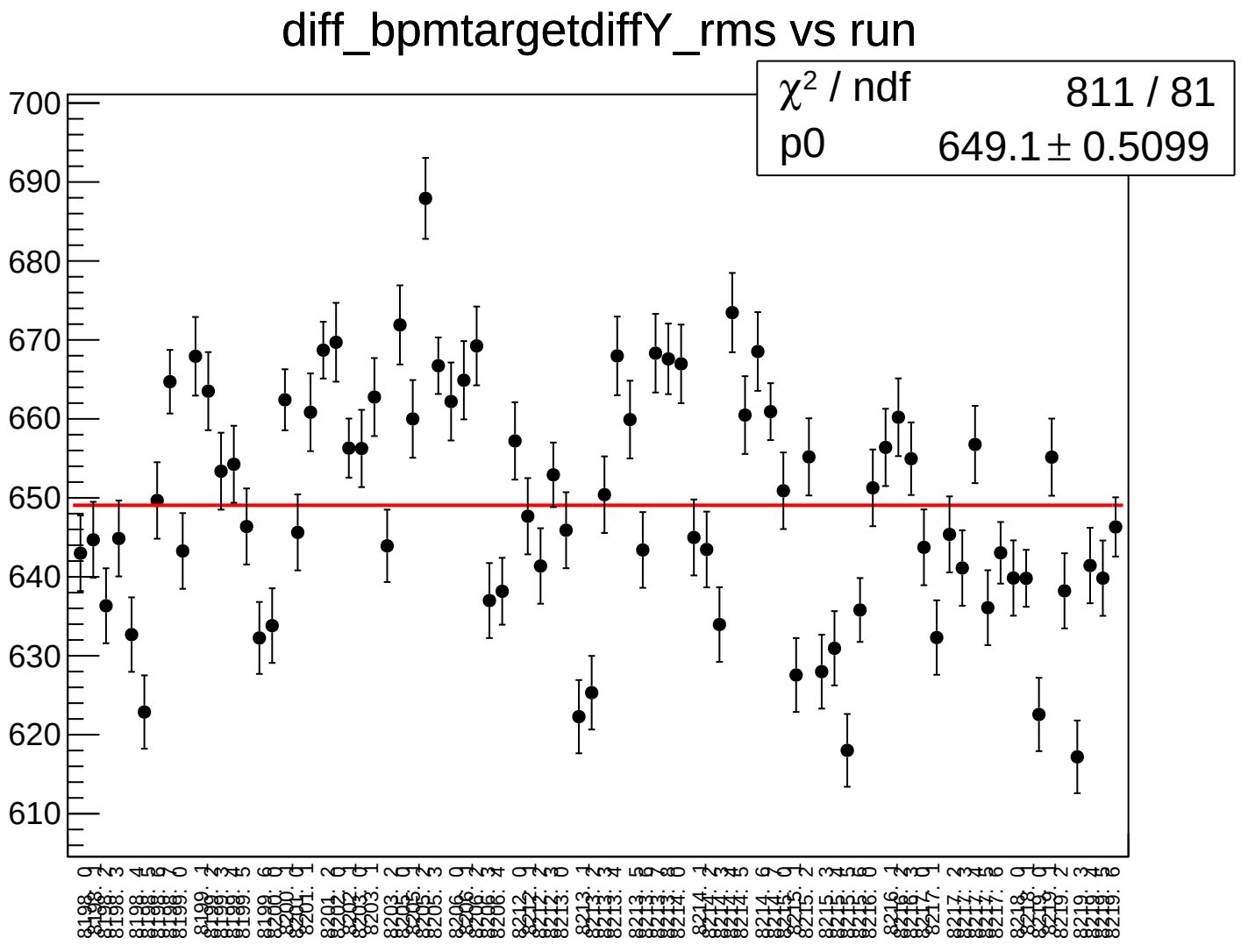

diff_bpmtargetsumY_mean vs run
χ² / ndf 78.28 / 81
p0 11.81 ± 12.78
pull
Entries 82
Mean −469.7
Std Dev 0

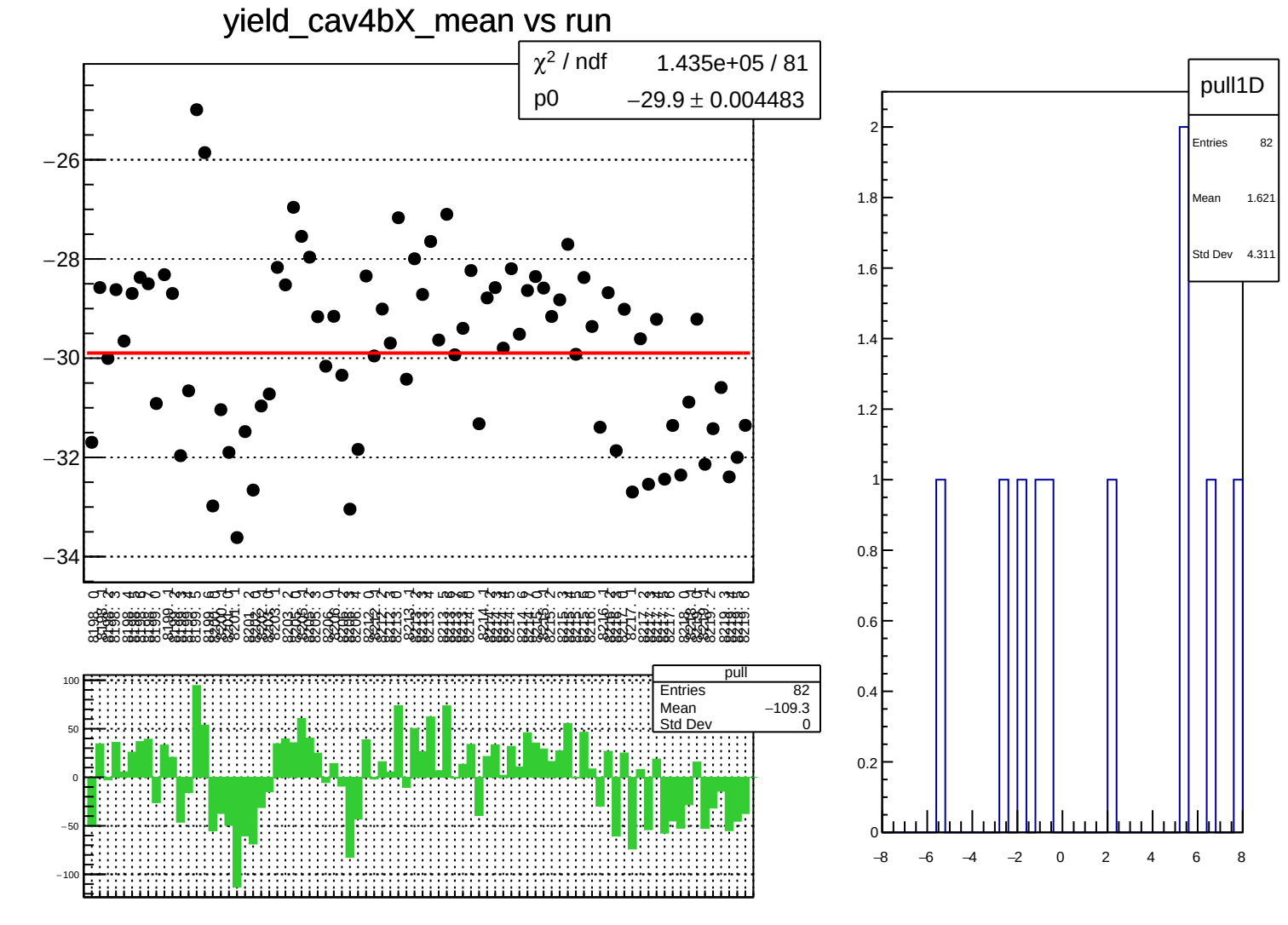

pull1D
Entries 82
Mean −0.01069
Std Dev 0.977

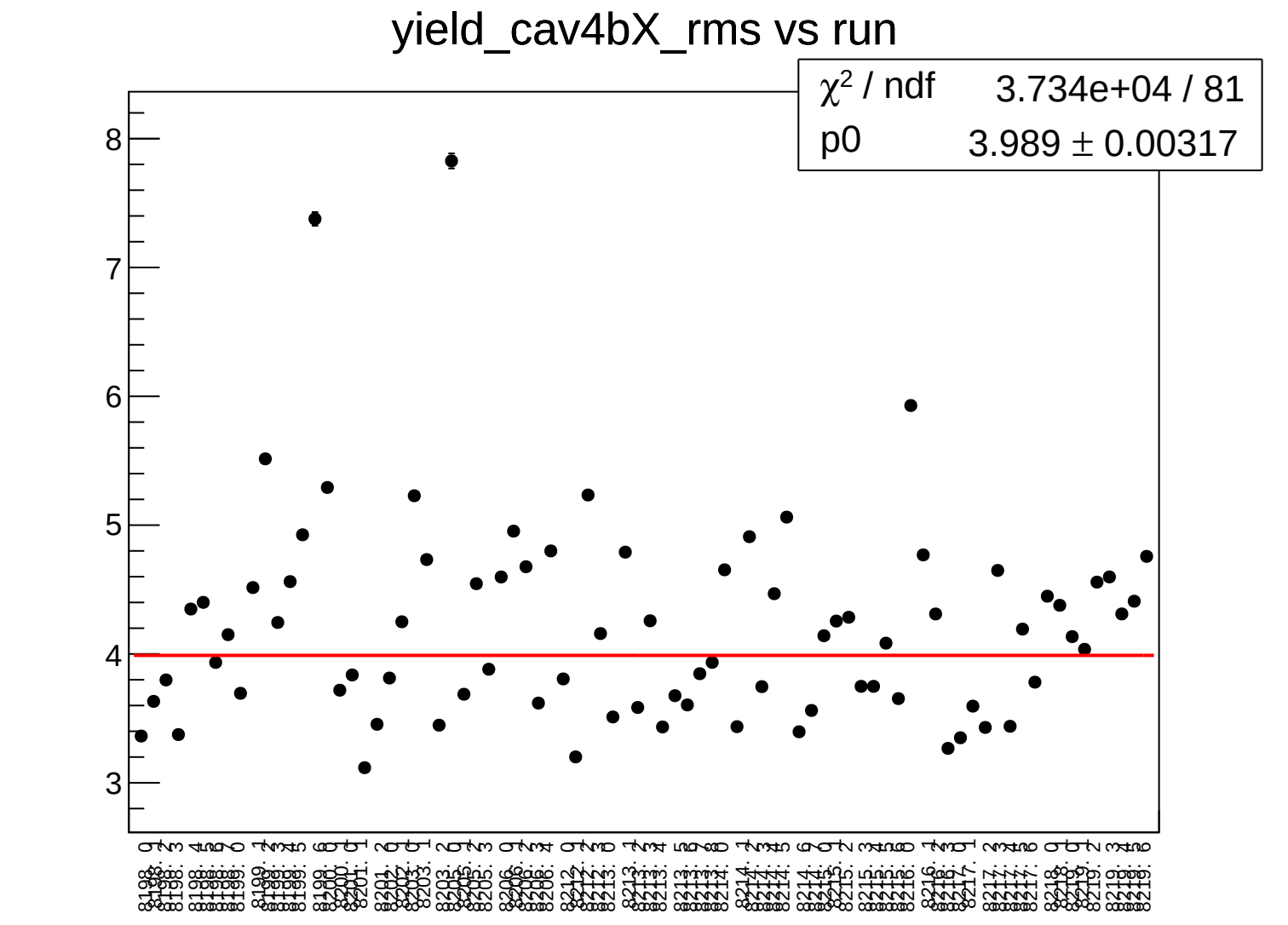

diff_bpmtargetsumY_rms vs run
χ² / ndf 2.951e+04 / 81
p0 1.14e+04 ± 9.038
16000
15000
14000
13000
12000
11000
10000
9000

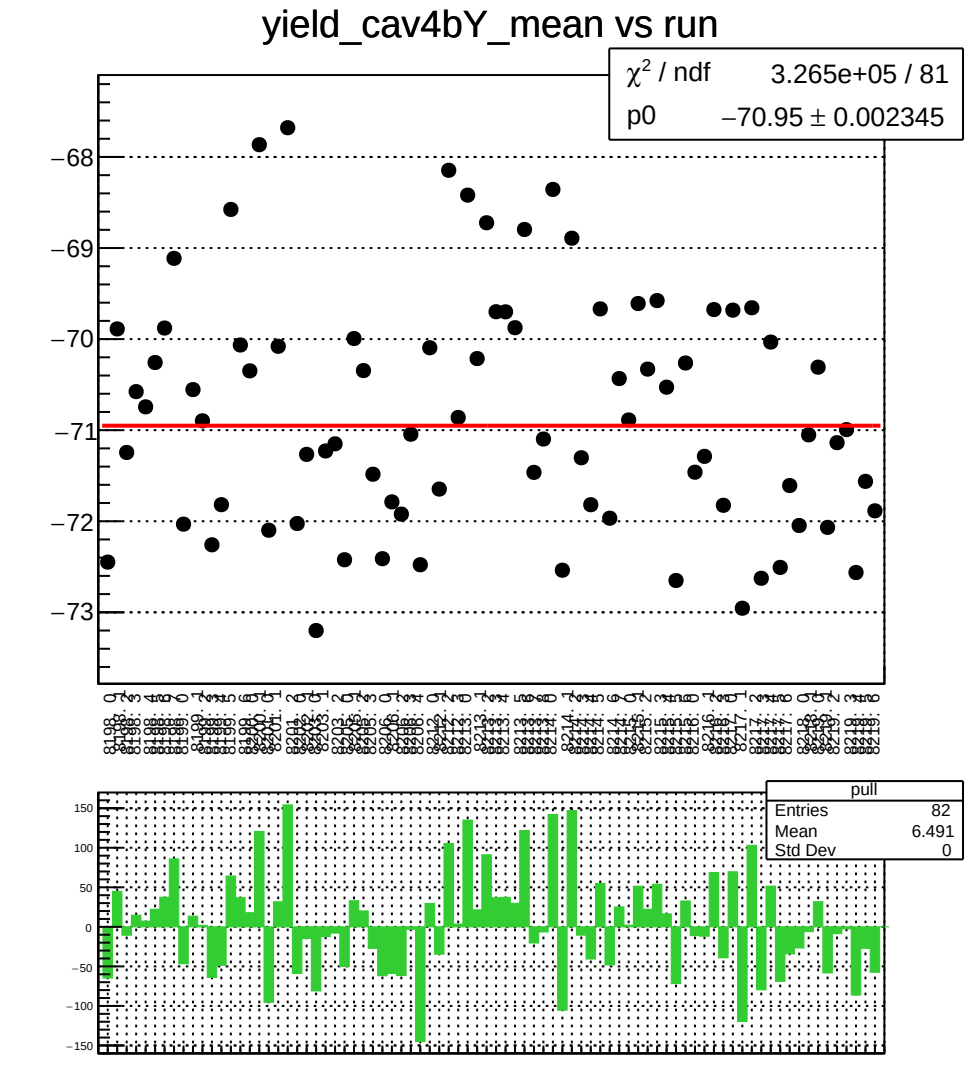

diff_bpmtargetdiffY_mean vs run
χ² / ndf 95 / 81
p0 −0.3083 ± 0.7211
pull
Entries 82
Mean −342.4
Std Dev 0

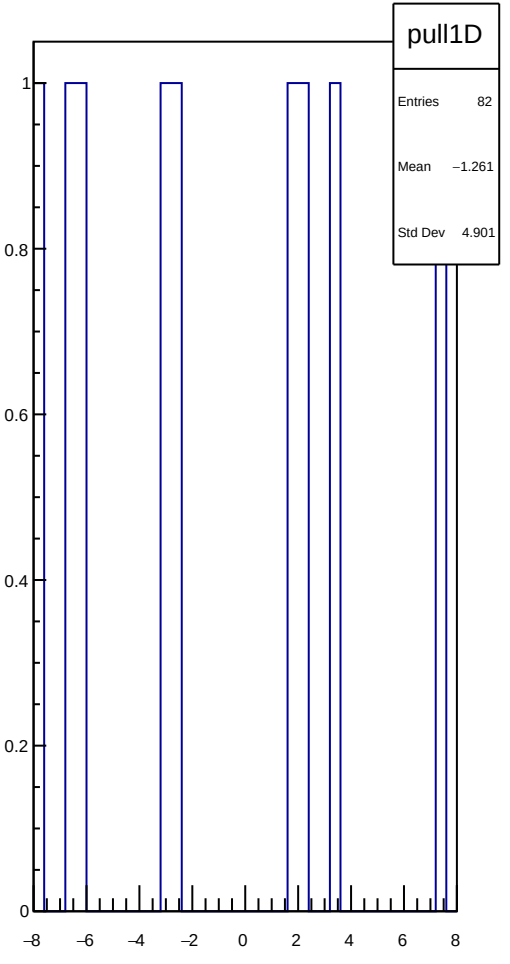

pull1D
Entries 82
Mean −0.02025
Std Dev 1.076

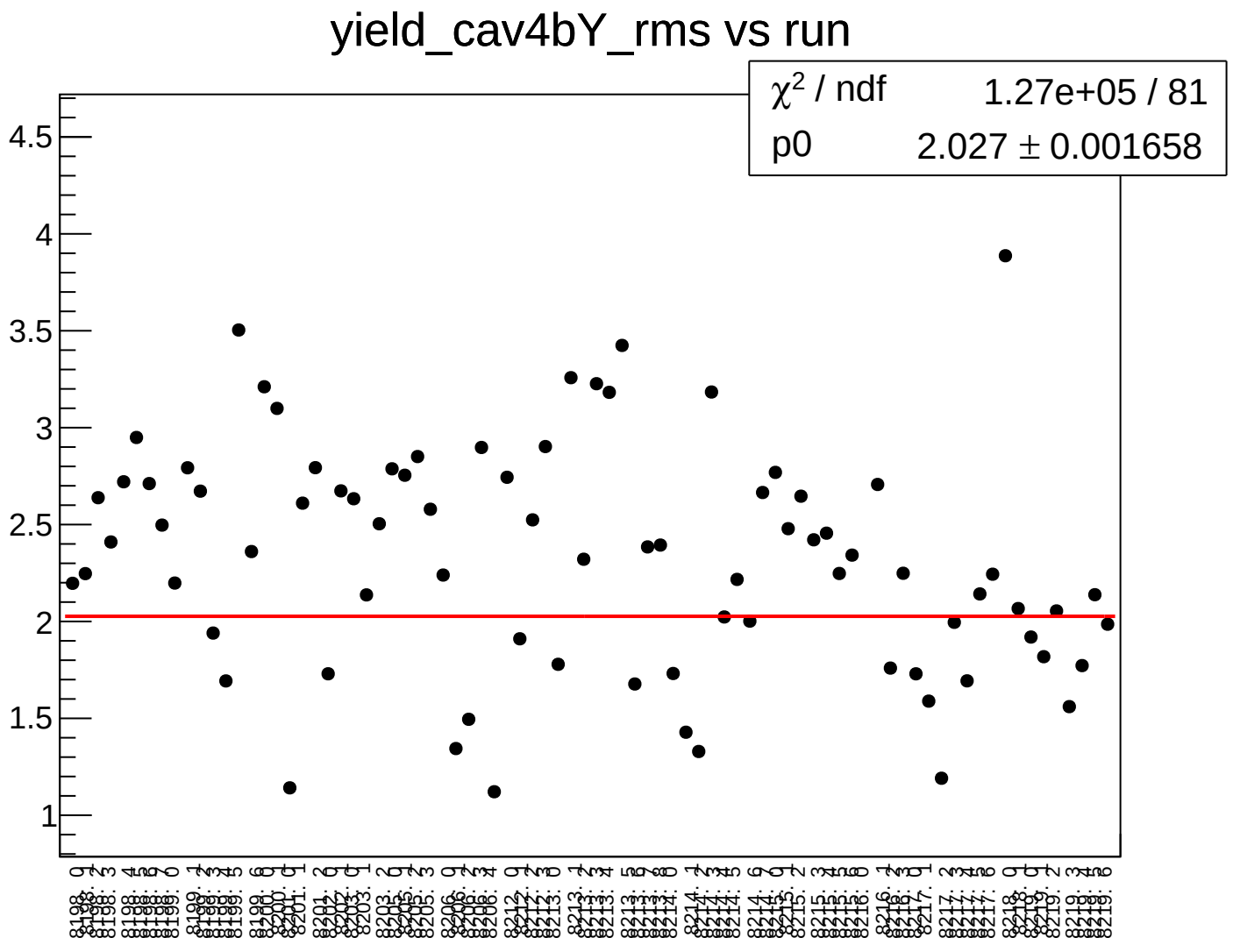

diff_bpmtargetdiffY_rms vs run
χ² / ndf 811 / 81
p0 649.1 ± 0.5099
700
690
680
670
660
650
640
630
620
610

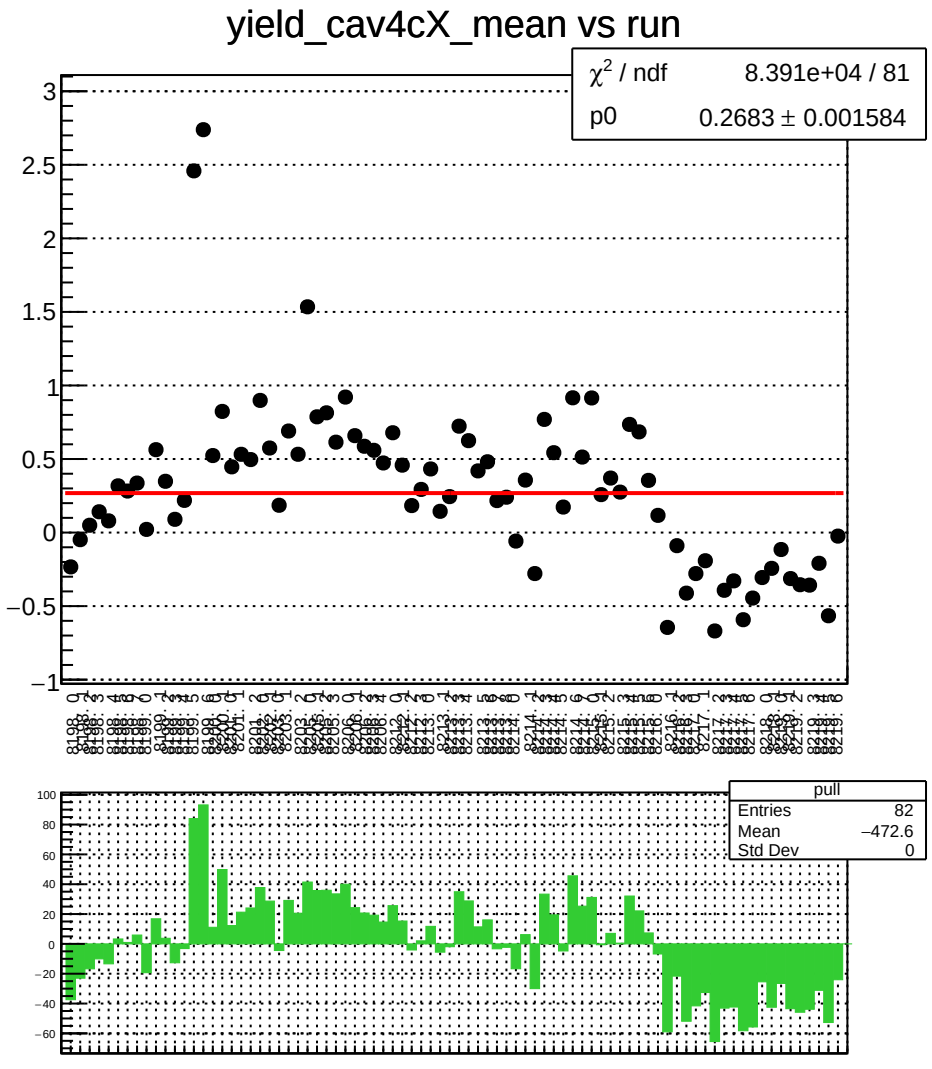

yield_cav4bX_mean vs run
χ² / ndf 1.435e+05 / 81
p0 −29.9 ± 0.004483
−26
−28
−30
−32
−34
pull
Entries 82
Mean −109.3
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 82
Mean 1.621
Std Dev 4.311
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

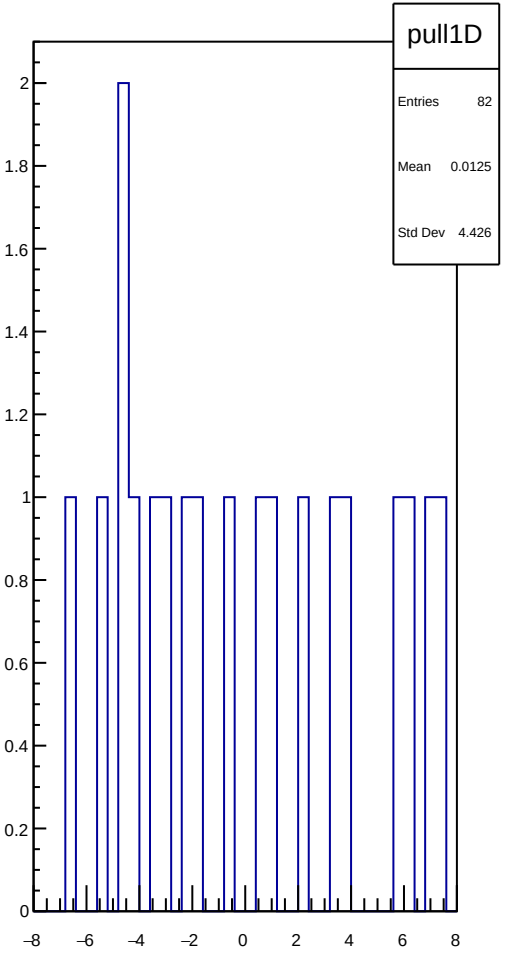

yield_cav4bX_rms vs run
χ² / ndf 3.734e+04 / 81
p0 3.989 ± 0.00317
8
7
6
5
4
3

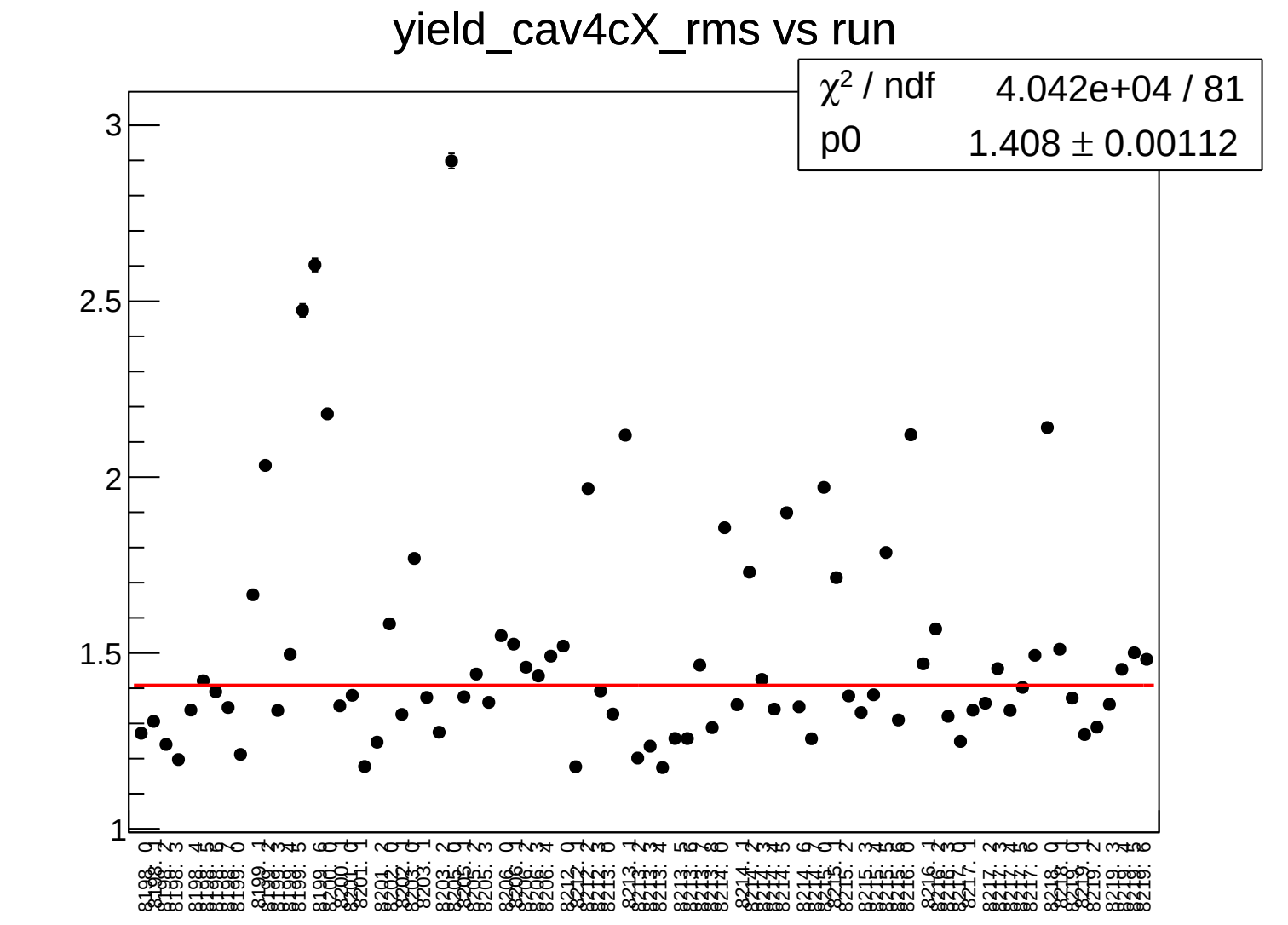

yield_cav4bY_mean vs run
χ² / ndf 3.265e+05 / 81
p0 −70.95 ± 0.002345
−68
−69
−70
−71
−72
−73
pull
Entries 82
Mean 6.491
Std Dev 0
150
100
50
0
−50
−100
−150

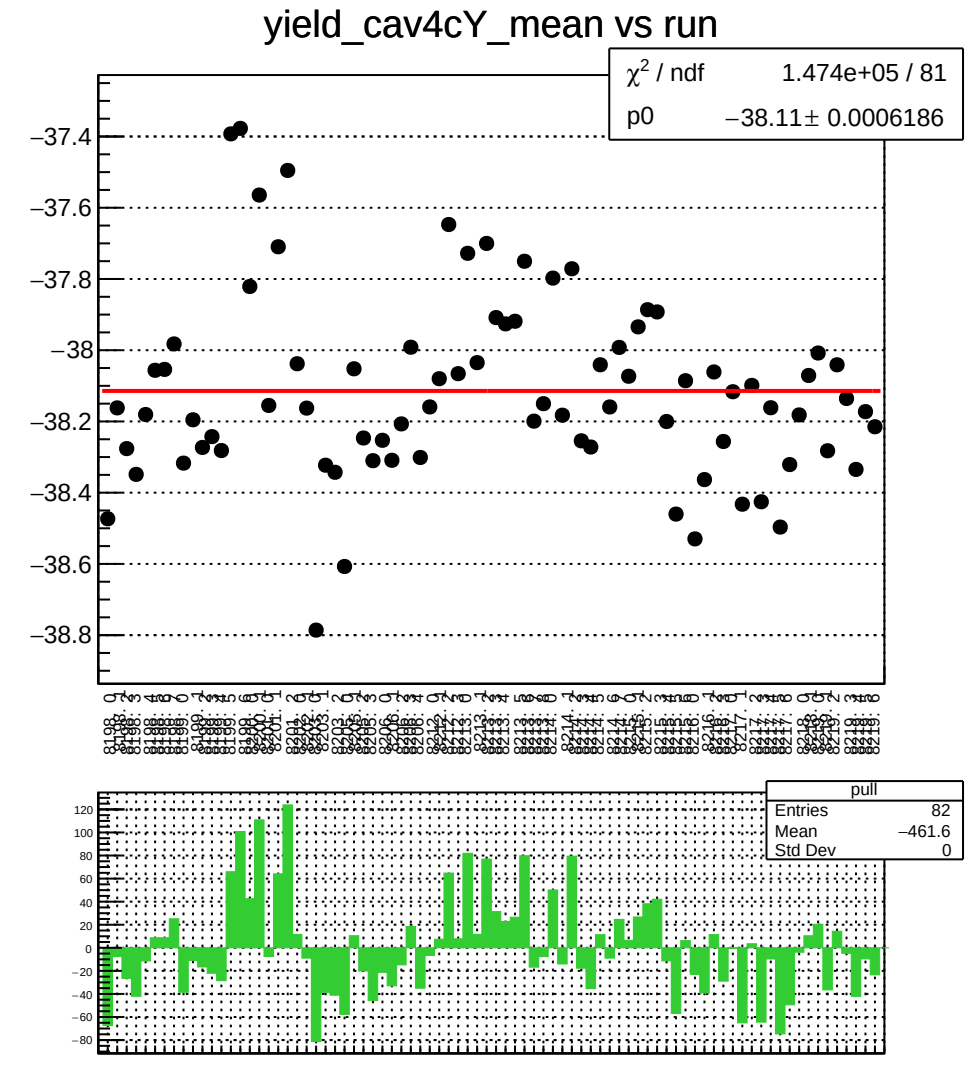

pull1D
Entries 82
Mean −1.261
Std Dev 4.901
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

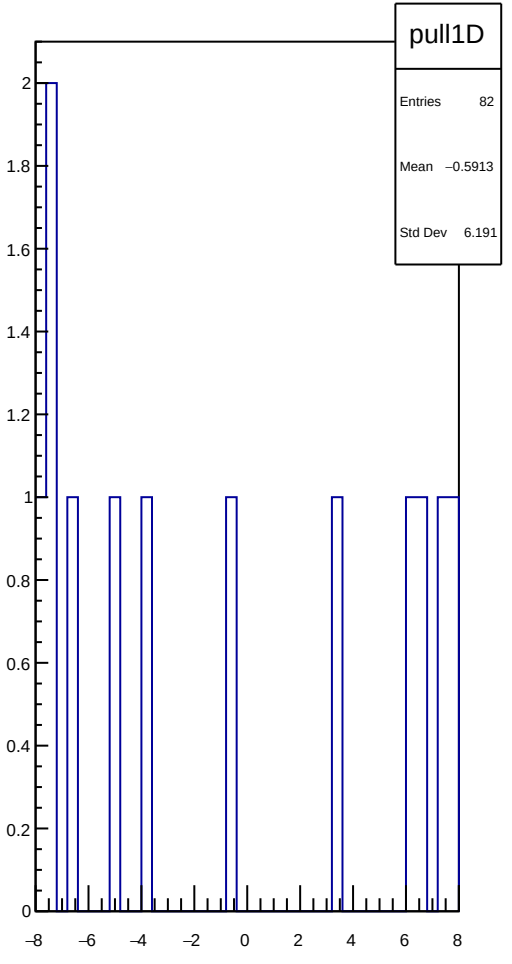

yield_cav4bY_rms vs run
$\chi^2$ / ndf 1.27e+05 / 81
p0 2.027 ± 0.001658
4.5
4
3.5
3
2.5
2
1.5
1

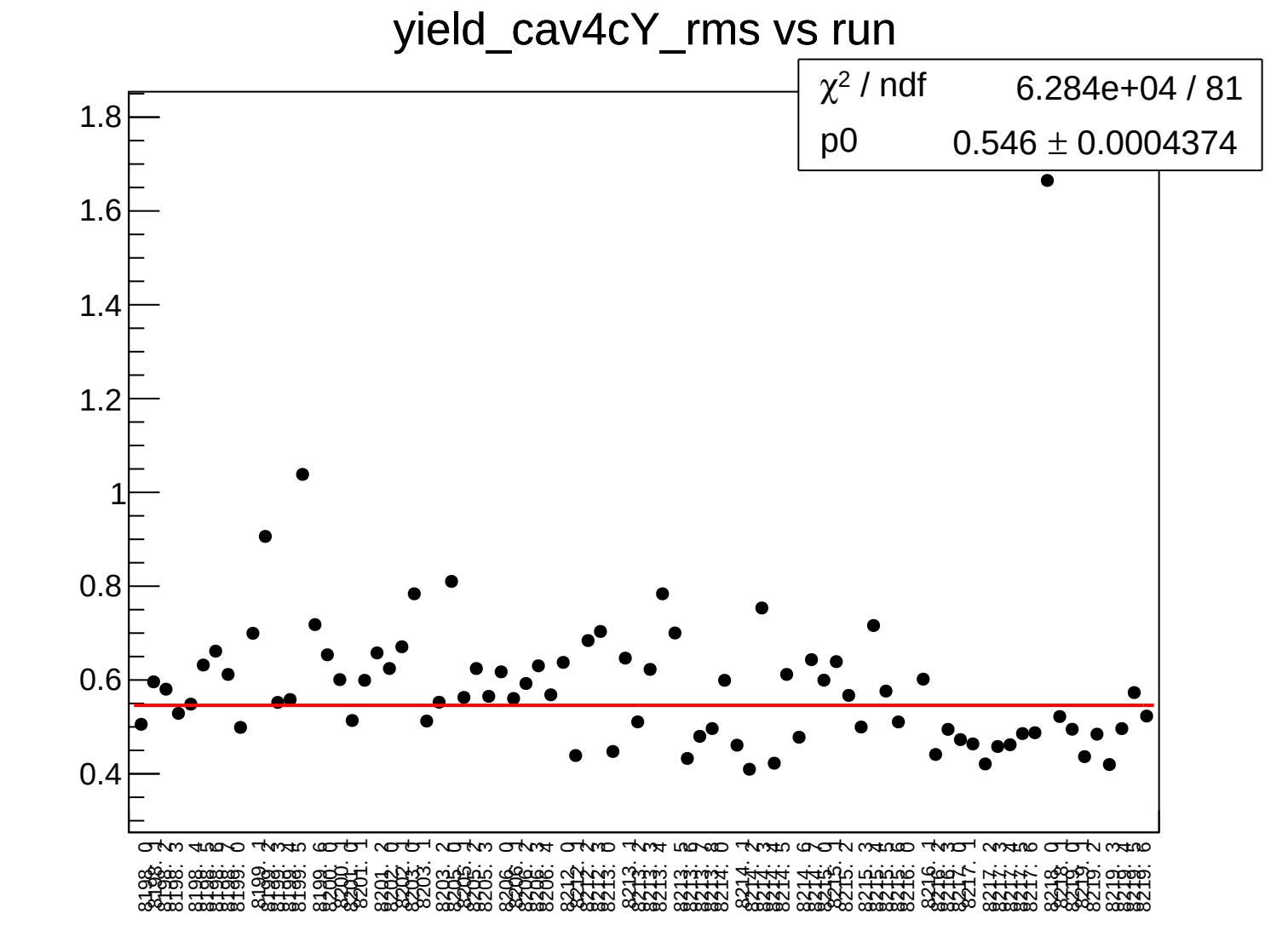

yield_cav4cX_mean vs run
χ² / ndf 8.391e+04 / 81
p0 0.2683 ± 0.001584
pull
Entries 82
Mean −472.6
Std Dev 0

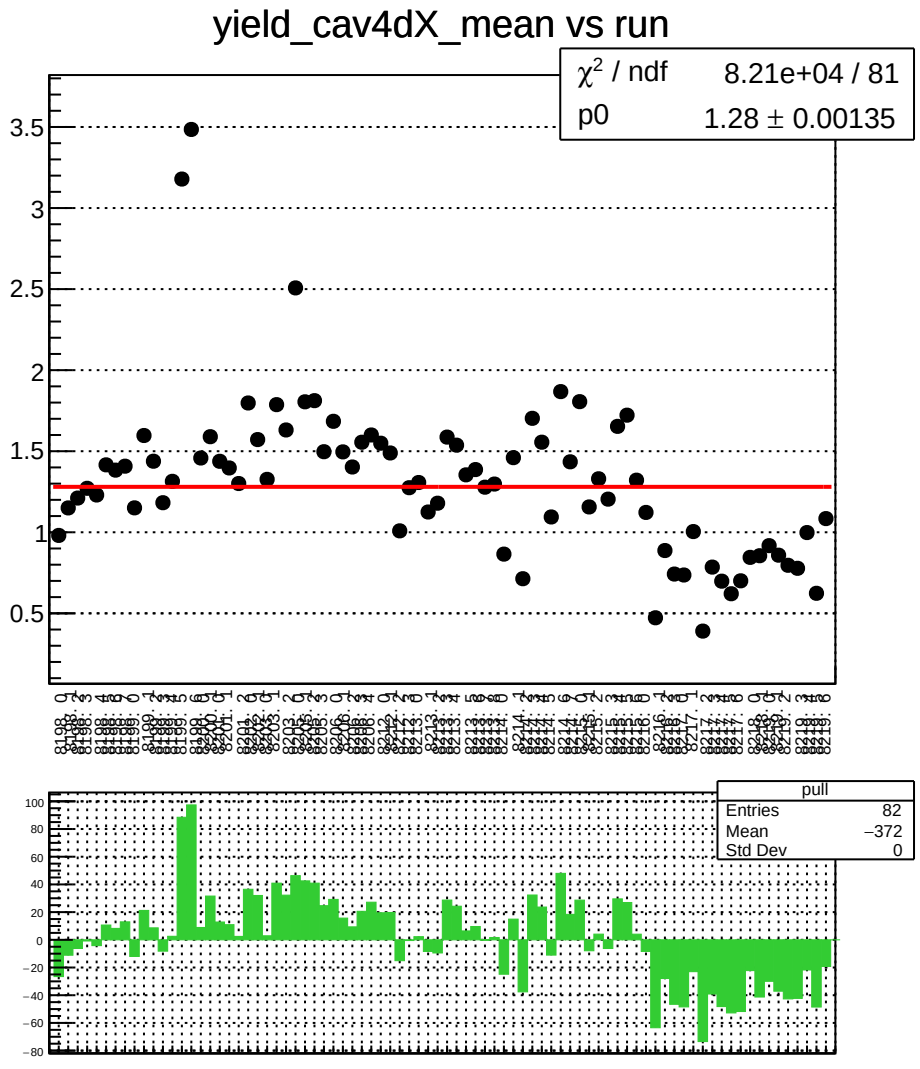

pull1D
Entries 82
Mean 0.0125
Std Dev 4.426

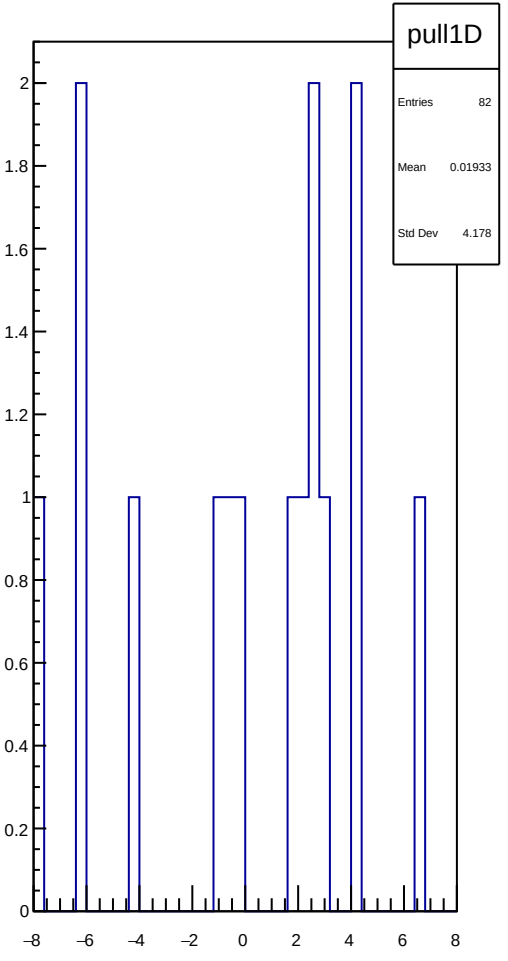

yield_cav4cX_rms vs run
χ² / ndf 4.042e+04 / 81
p0 1.408 ± 0.00112
3
2.5
2
1.5
1

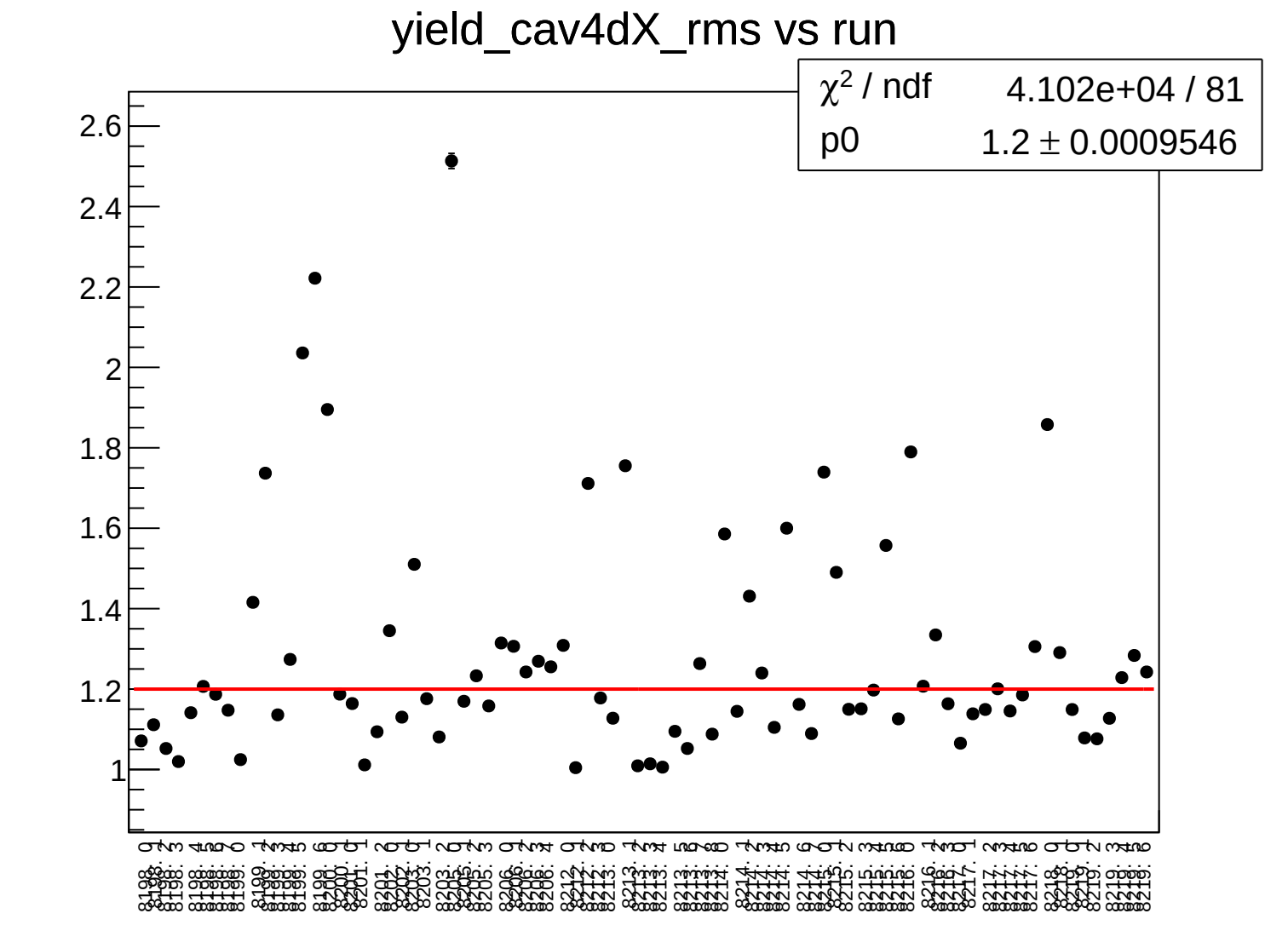

yield_cav4cY_mean vs run
χ² / ndf 1.474e+05 / 81
p0 −38.11 ± 0.0006186
−37.4
−37.6
−37.8
−38
−38.2
−38.4
−38.6
−38.8
pull
Entries 82
Mean −461.6
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

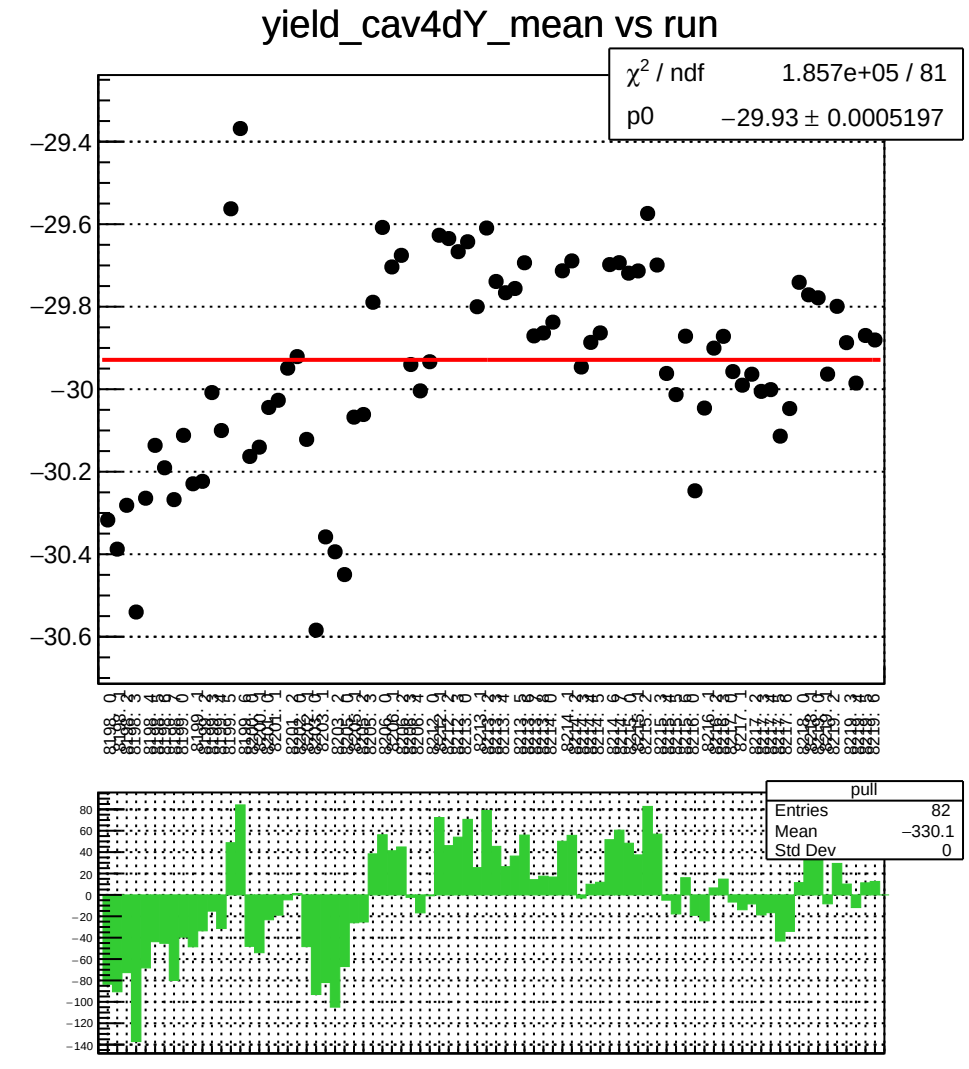

pull1D
Entries 82
Mean −0.5913
Std Dev 6.191
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

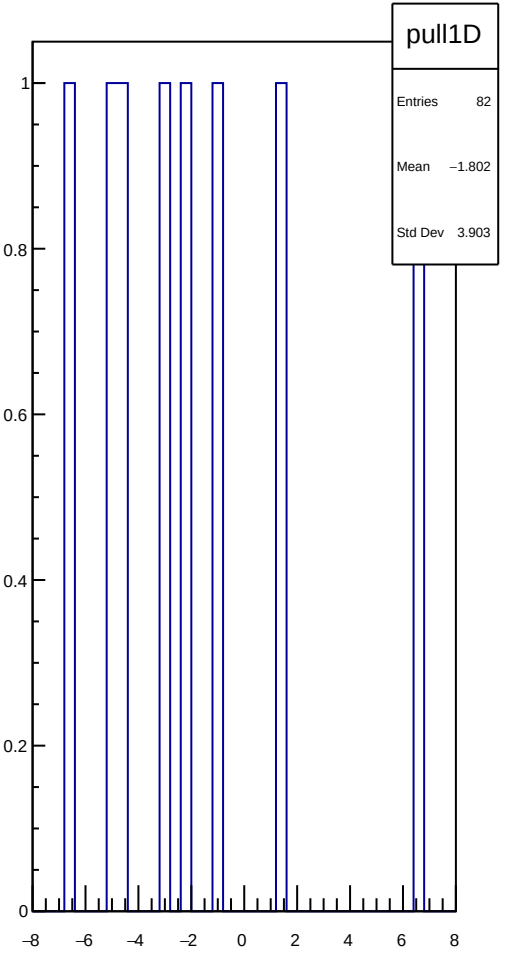

yield_cav4cY_rms vs run
χ² / ndf 6.284e+04 / 81
p0 0.546 ± 0.0004374
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

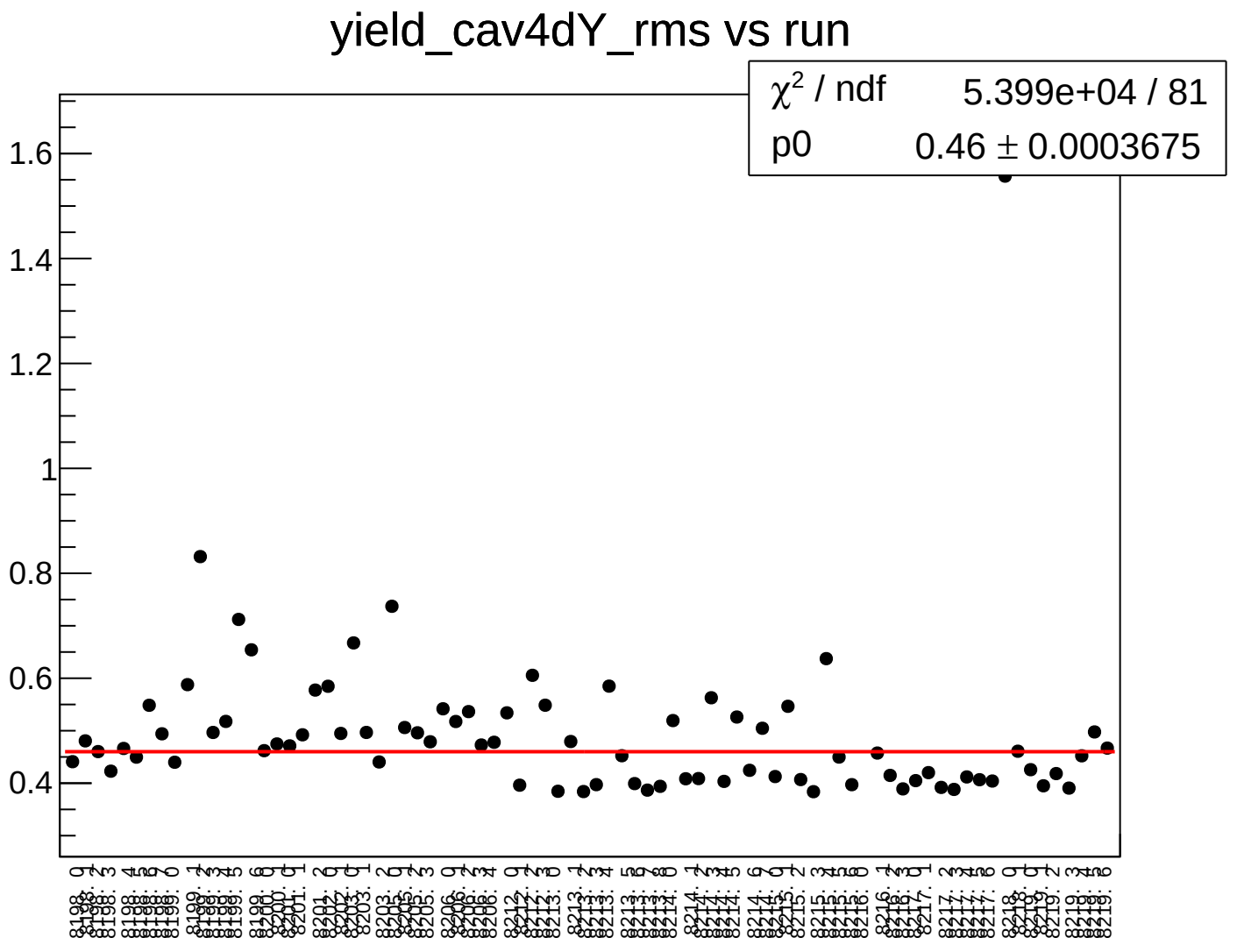

yield_cav4dX_mean vs run
χ² / ndf 8.21e+04 / 81
p0 1.28 ± 0.00135
pull
Entries 82
Mean −372
Std Dev 0

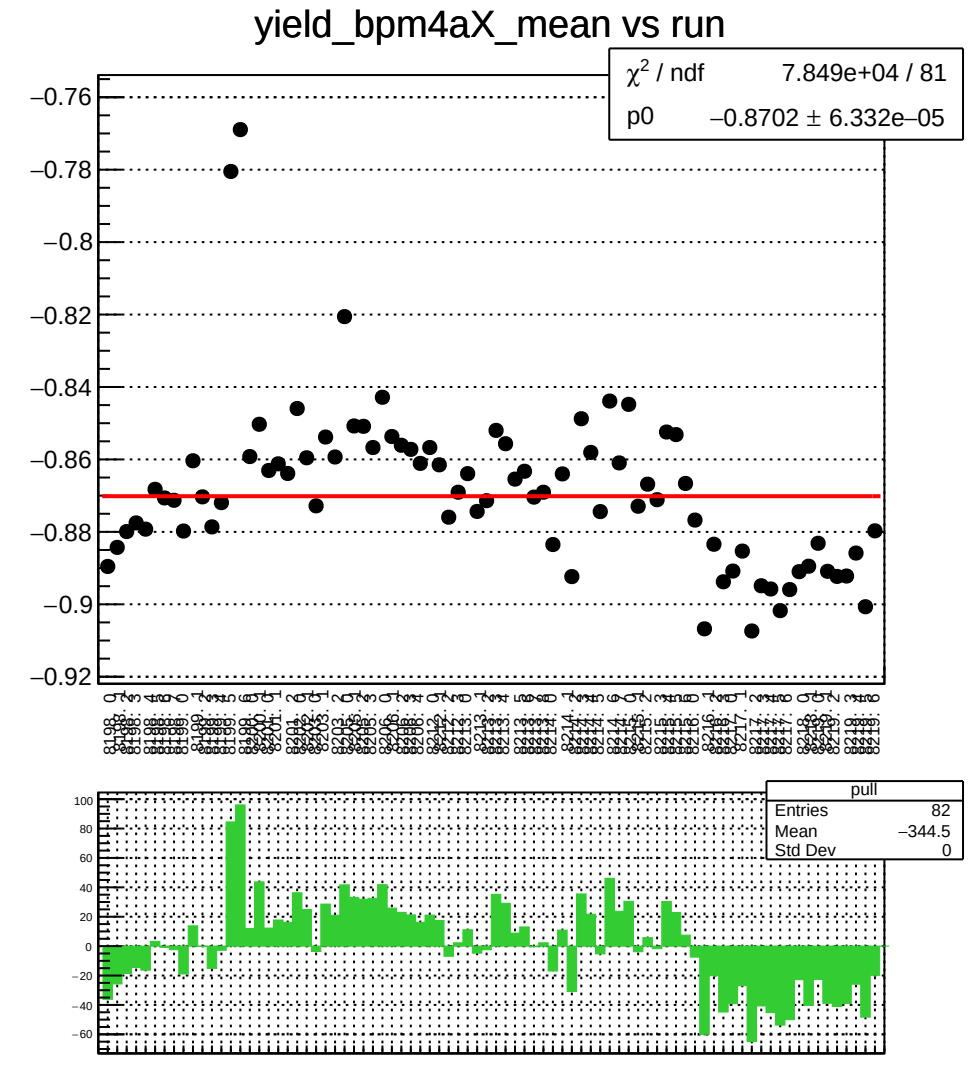

pull1D
Entries 82
Mean 0.01933
Std Dev 4.178

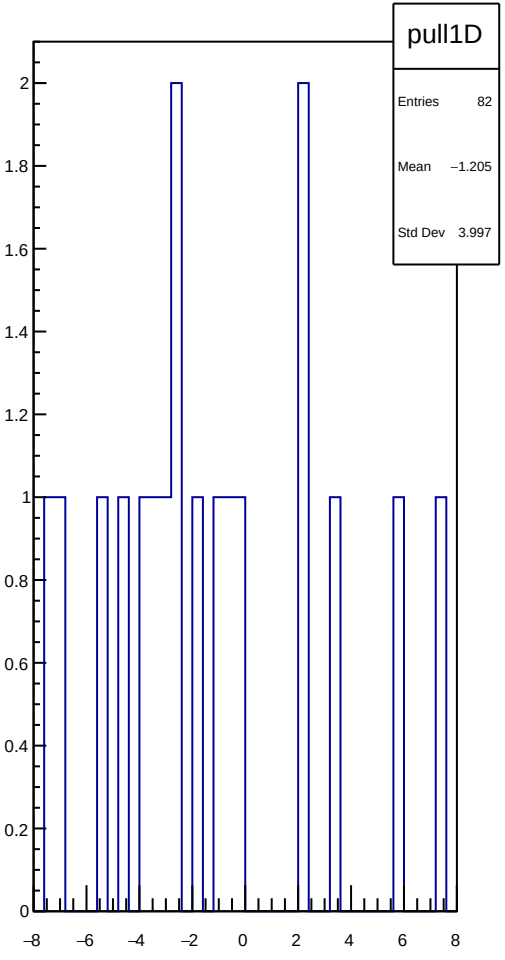

yield_cav4dX_rms vs run
χ² / ndf 4.102e+04 / 81
p0 1.2 ± 0.0009546
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1

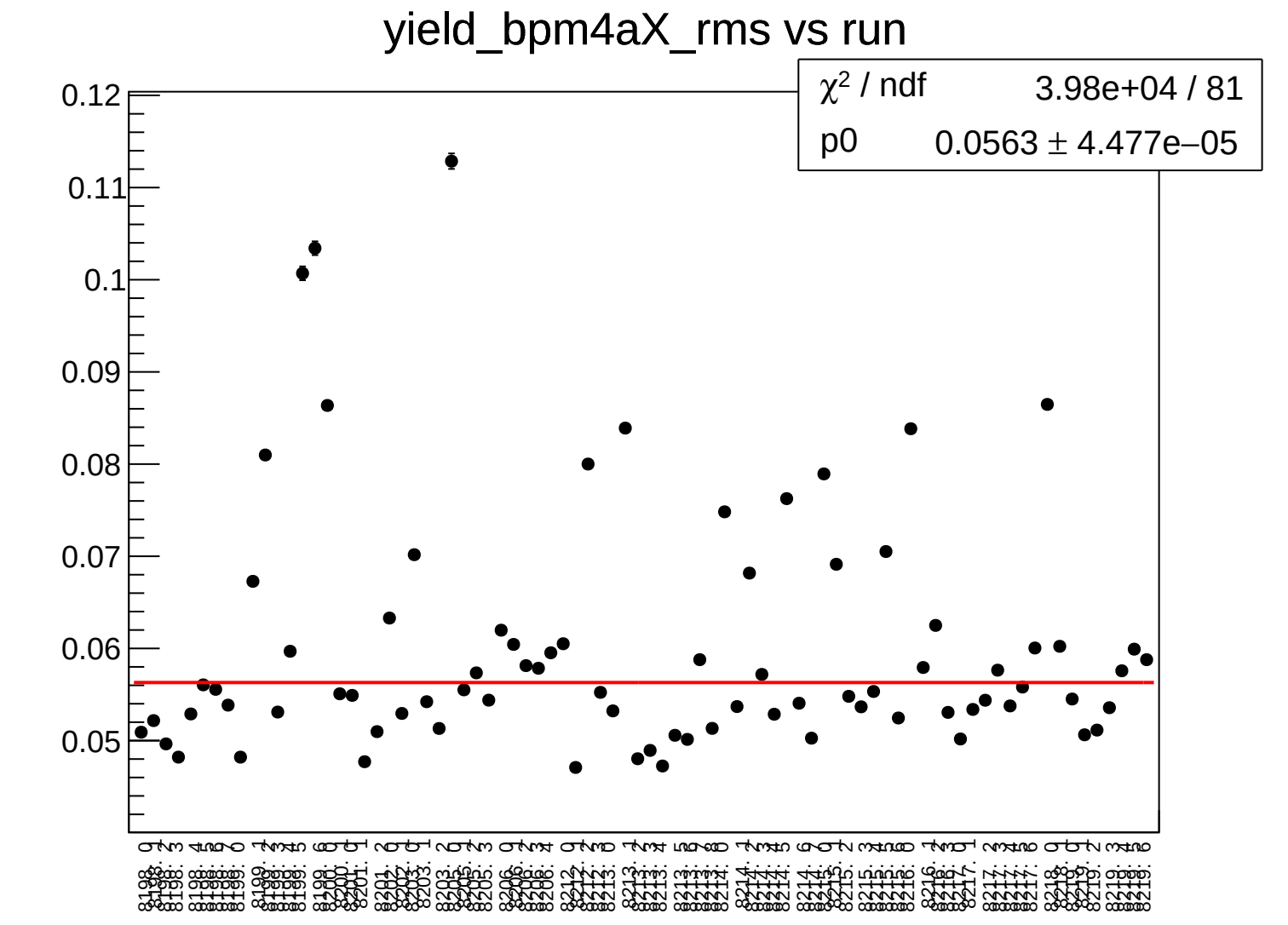

yield_cav4dY_mean vs run
χ² / ndf 1.857e+05 / 81
p0 −29.93 ± 0.0005197
−29.4
−29.6
−29.8
−30
−30.2
−30.4
−30.6
pull
Entries 82
Mean −330.1
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

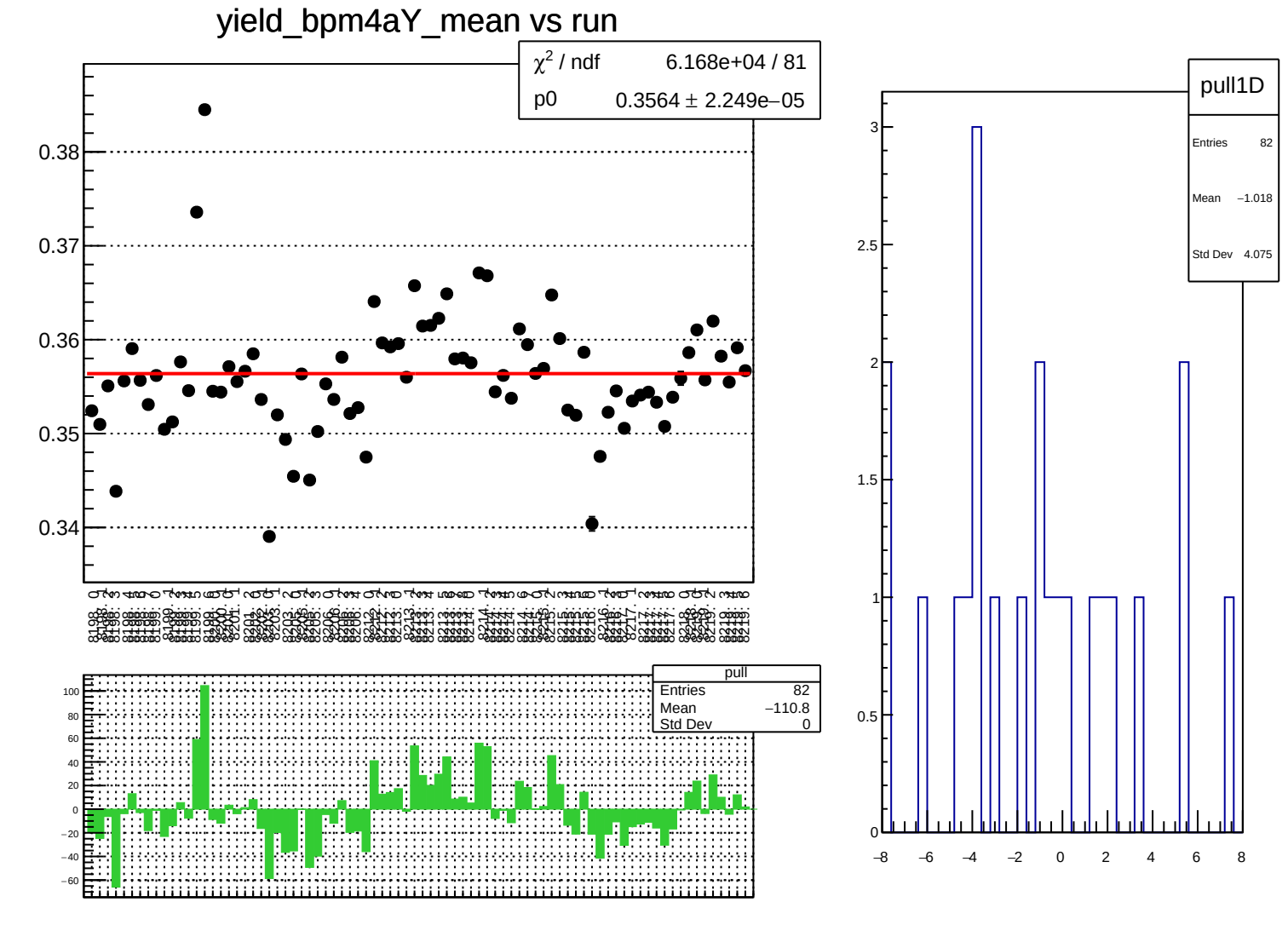

pull1D
Entries 82
Mean −1.802
Std Dev 3.903
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

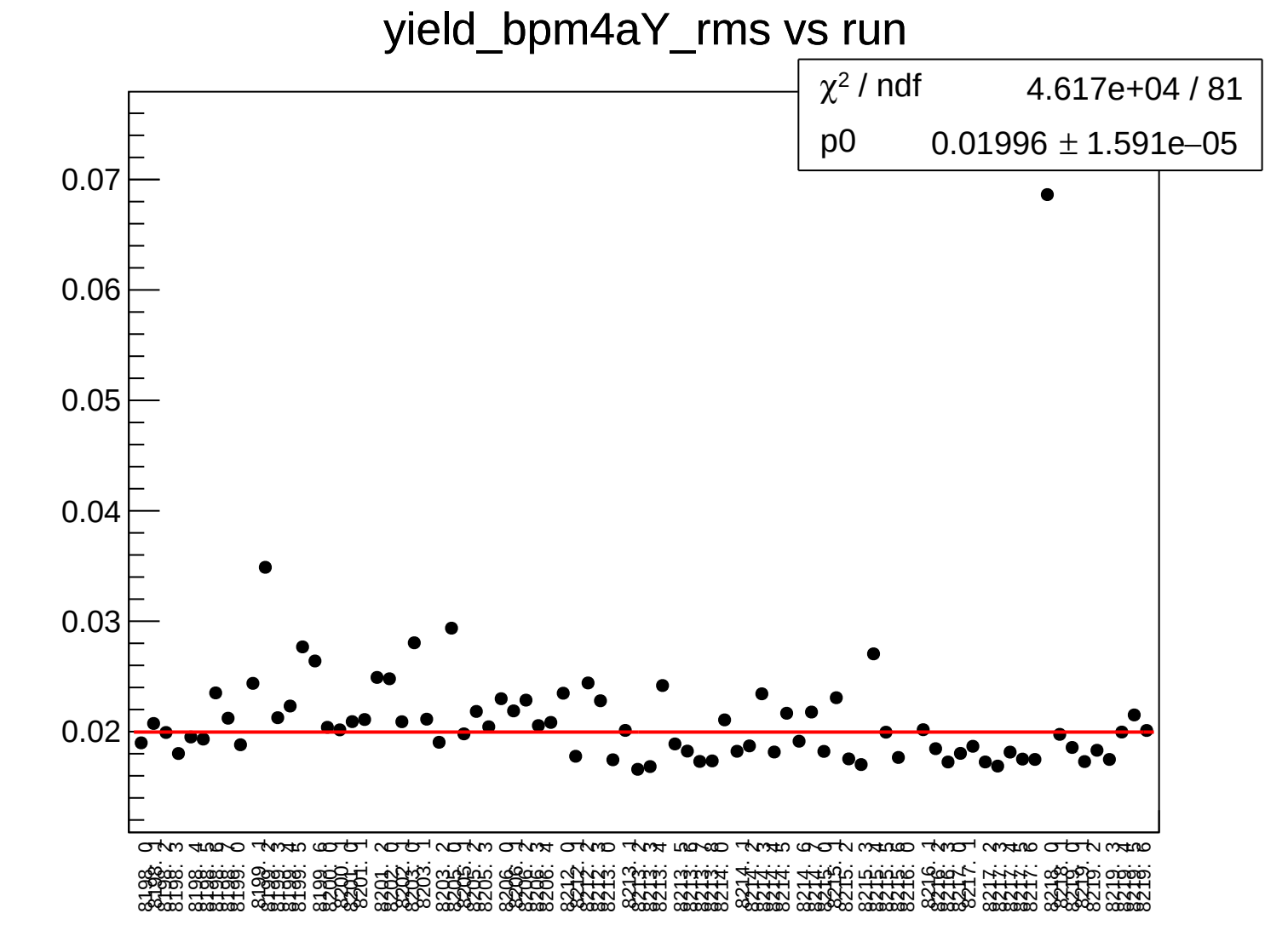

yield_cav4dY_rms vs run
χ² / ndf 5.399e+04 / 81
p0 0.46 ± 0.0003675
1.6
1.4
1.2
1
0.8
0.6
0.4

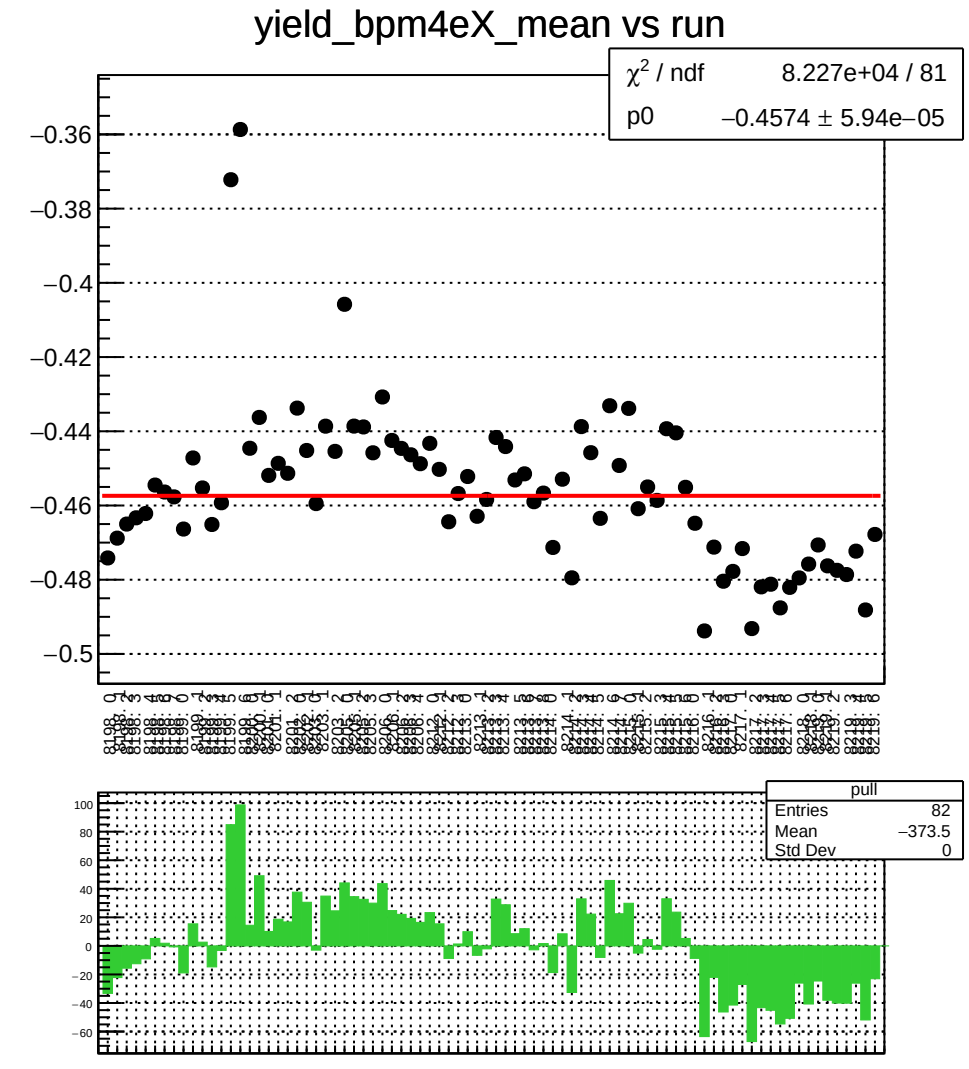

yield_bpm4aX_mean vs run
χ² / ndf 7.849e+04 / 81
p0 −0.8702 ± 6.332e−05
pull
Entries 82
Mean −344.5
Std Dev 0

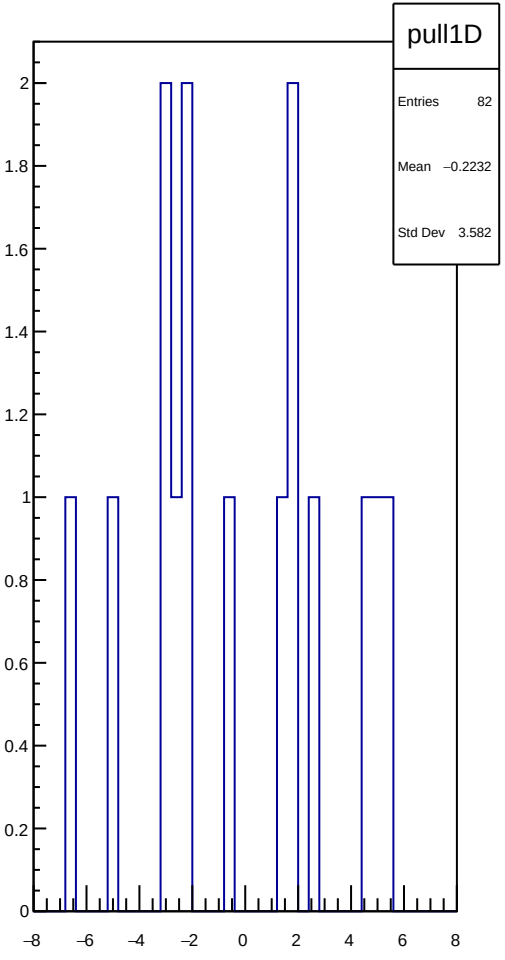

pull1D
Entries 82
Mean −1.205
Std Dev 3.997

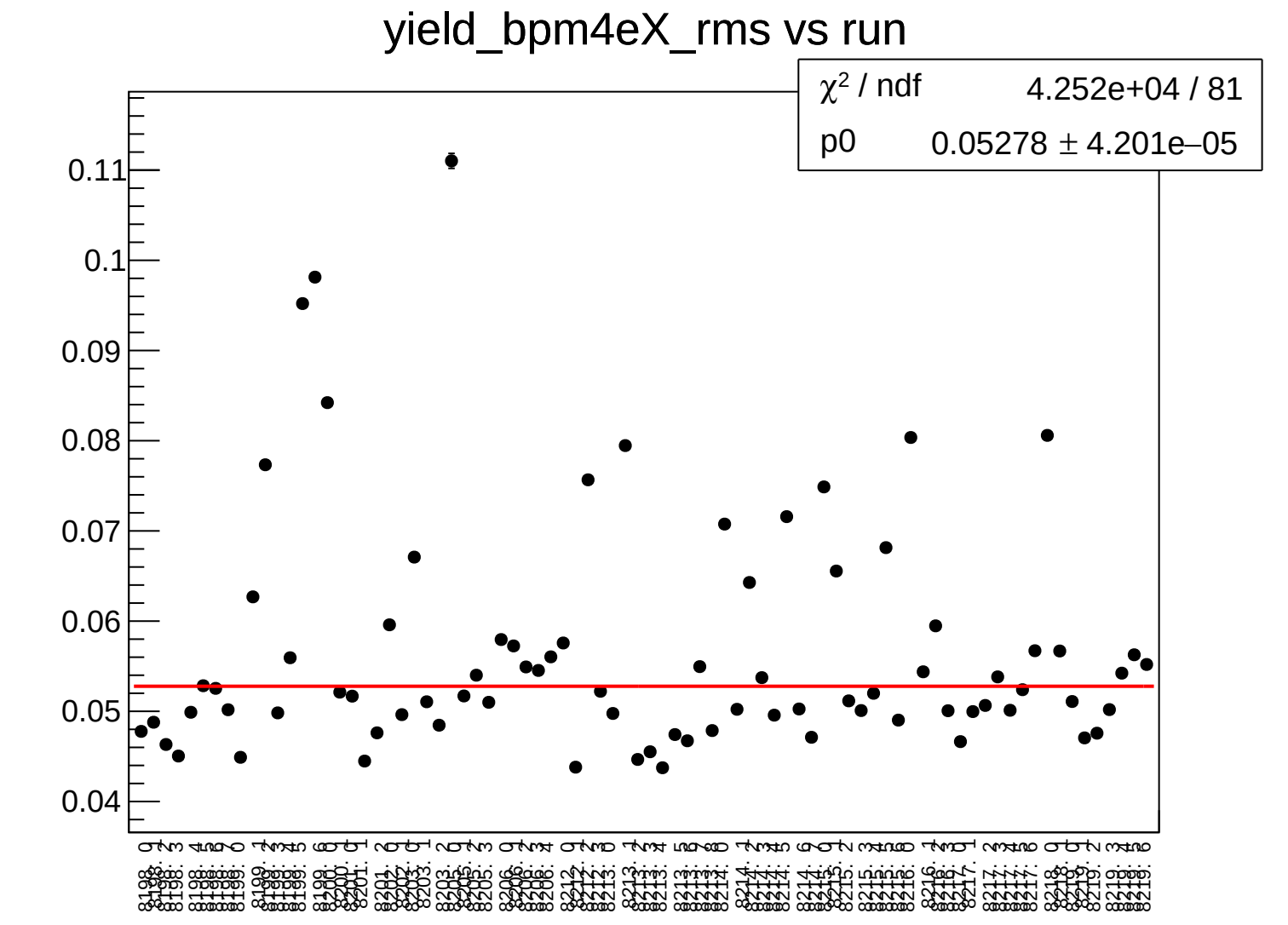

yield_bpm4aX_rms vs run
χ² / ndf 3.98e+04 / 81
p0 0.0563 ± 4.477e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05

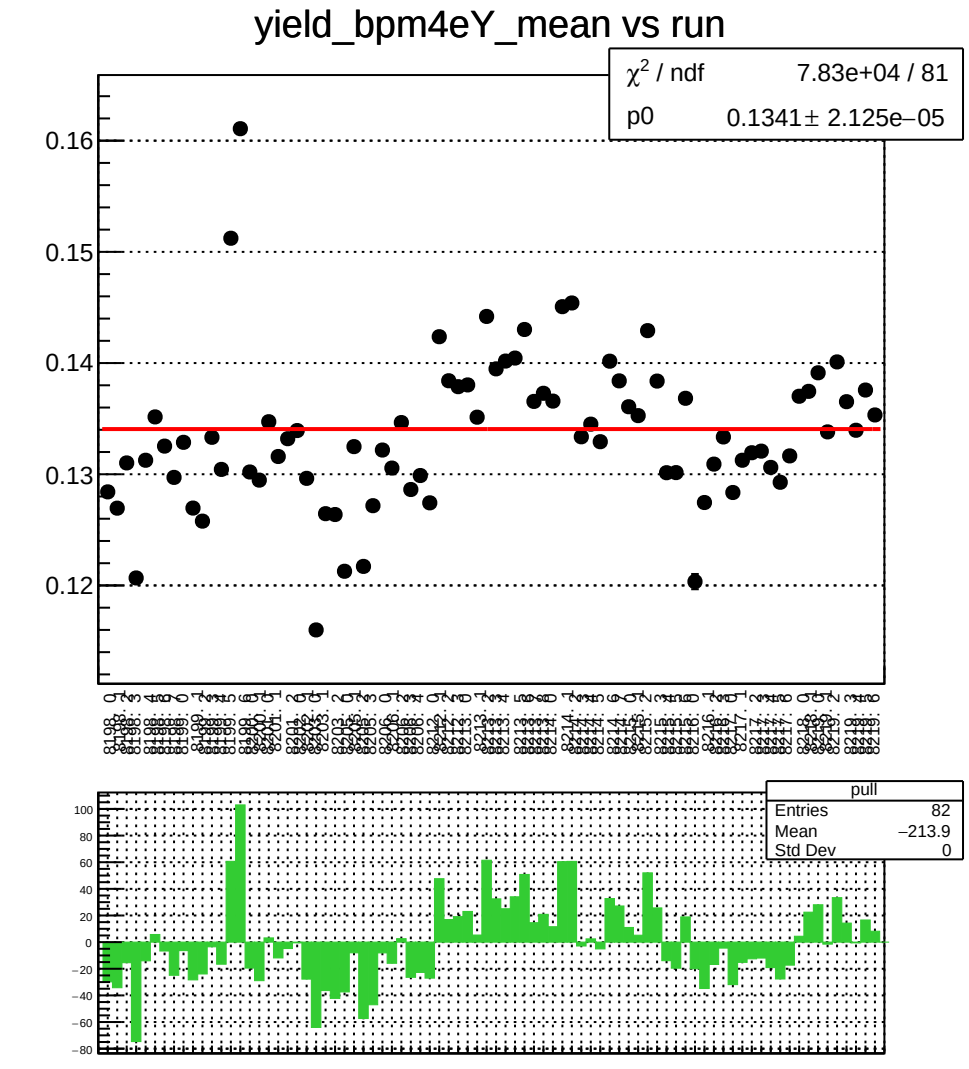

yield_bpm4aY_mean vs run
χ² / ndf 6.168e+04 / 81
p0 0.3564 ± 2.249e−05
0.38
0.37
0.36
0.35
0.34
pull
Entries 82
Mean −110.8
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 82
Mean −1.018
Std Dev 4.075
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

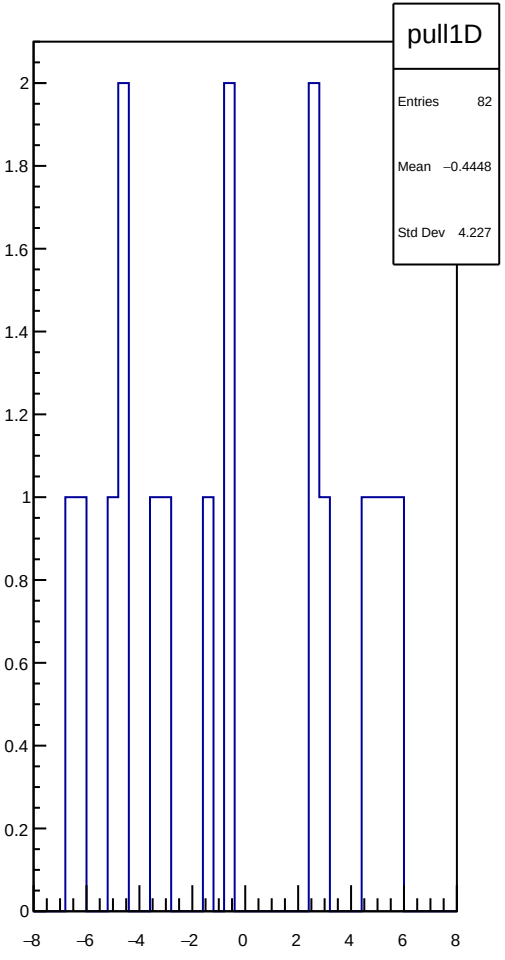

yield_bpm4aY_rms vs run
χ² / ndf 4.617e+04 / 81
p0 0.01996 ± 1.591e−05
0.07
0.06
0.05
0.04
0.03
0.02

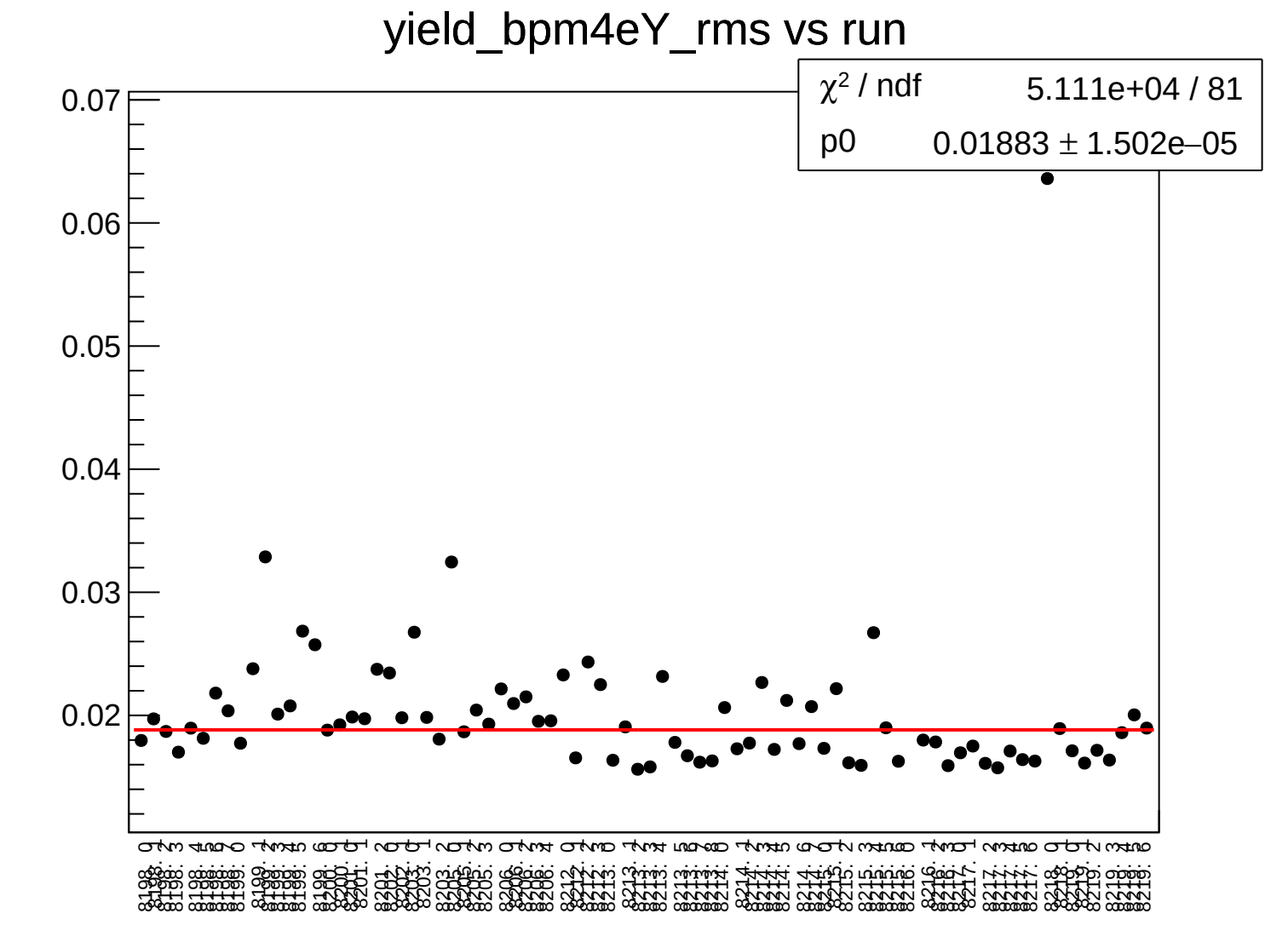

yield_bpm4eX_mean vs run
χ² / ndf 8.227e+04 / 81
p0 −0.4574 ± 5.94e−05
pull
Entries 82
Mean −373.5
Std Dev 0

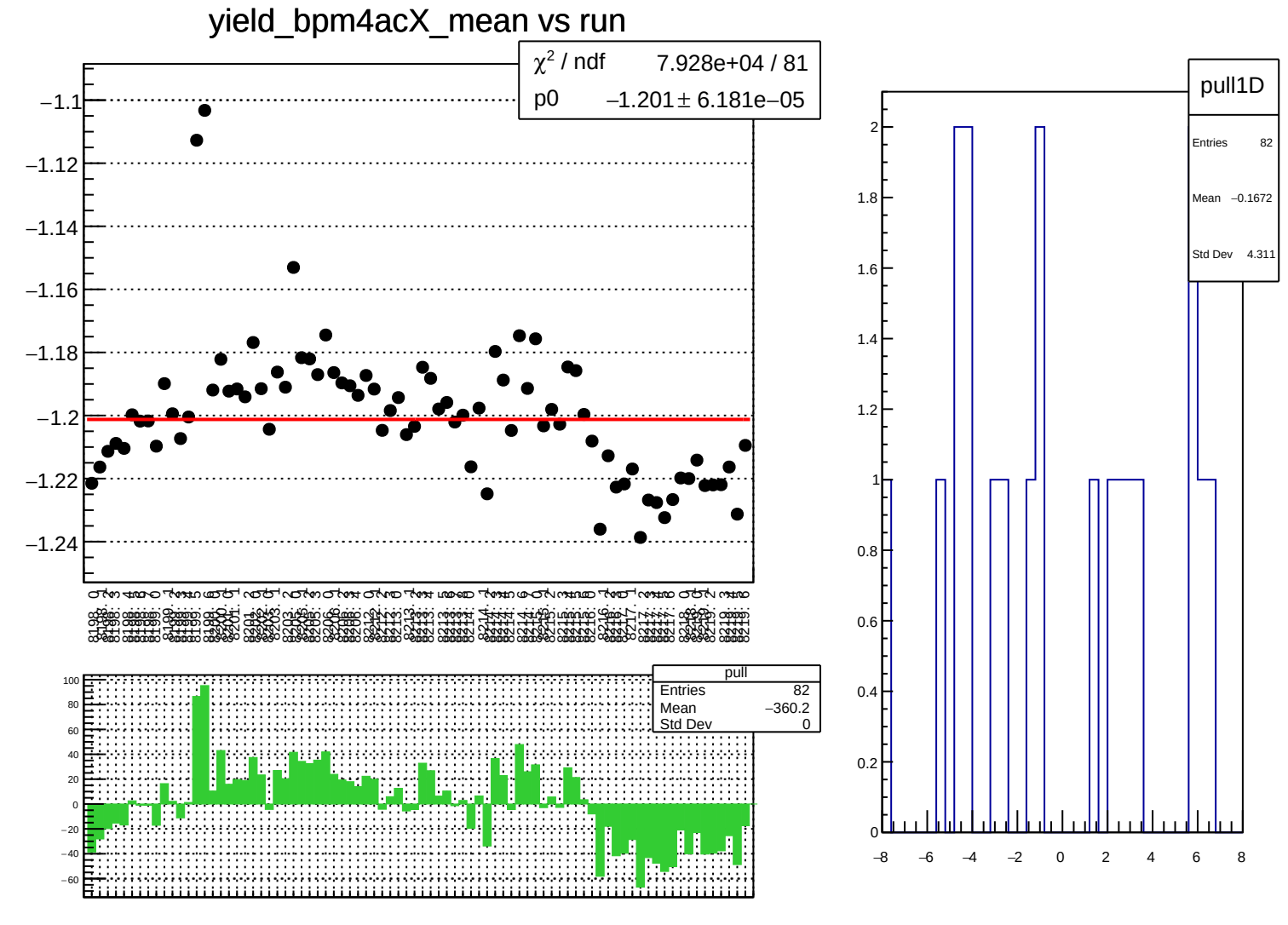

pull1D
Entries 82
Mean −0.2232
Std Dev 3.582

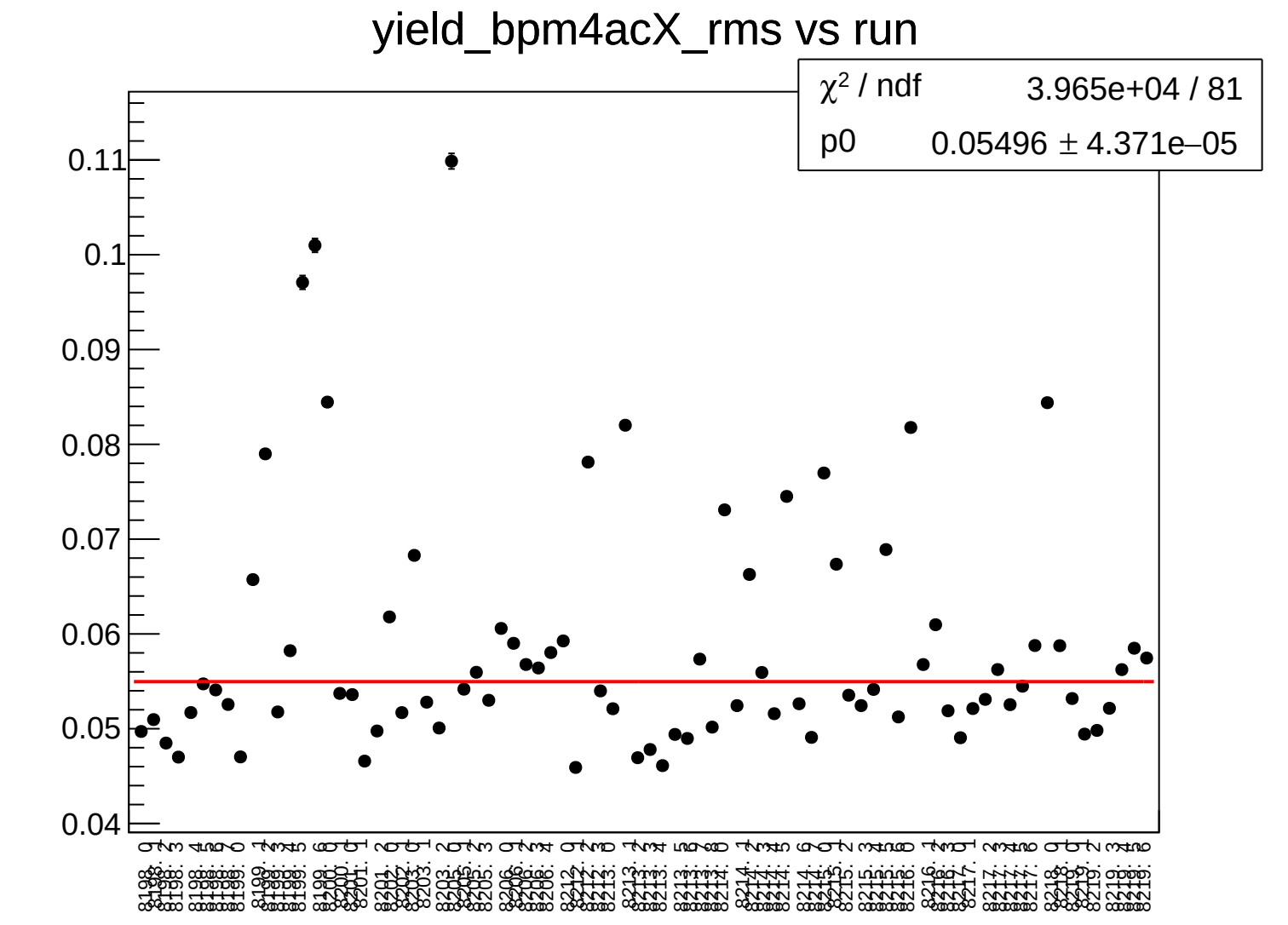

yield_bpm4eX_rms vs run
χ² / ndf 4.252e+04 / 81
p0 0.05278 ± 4.201e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

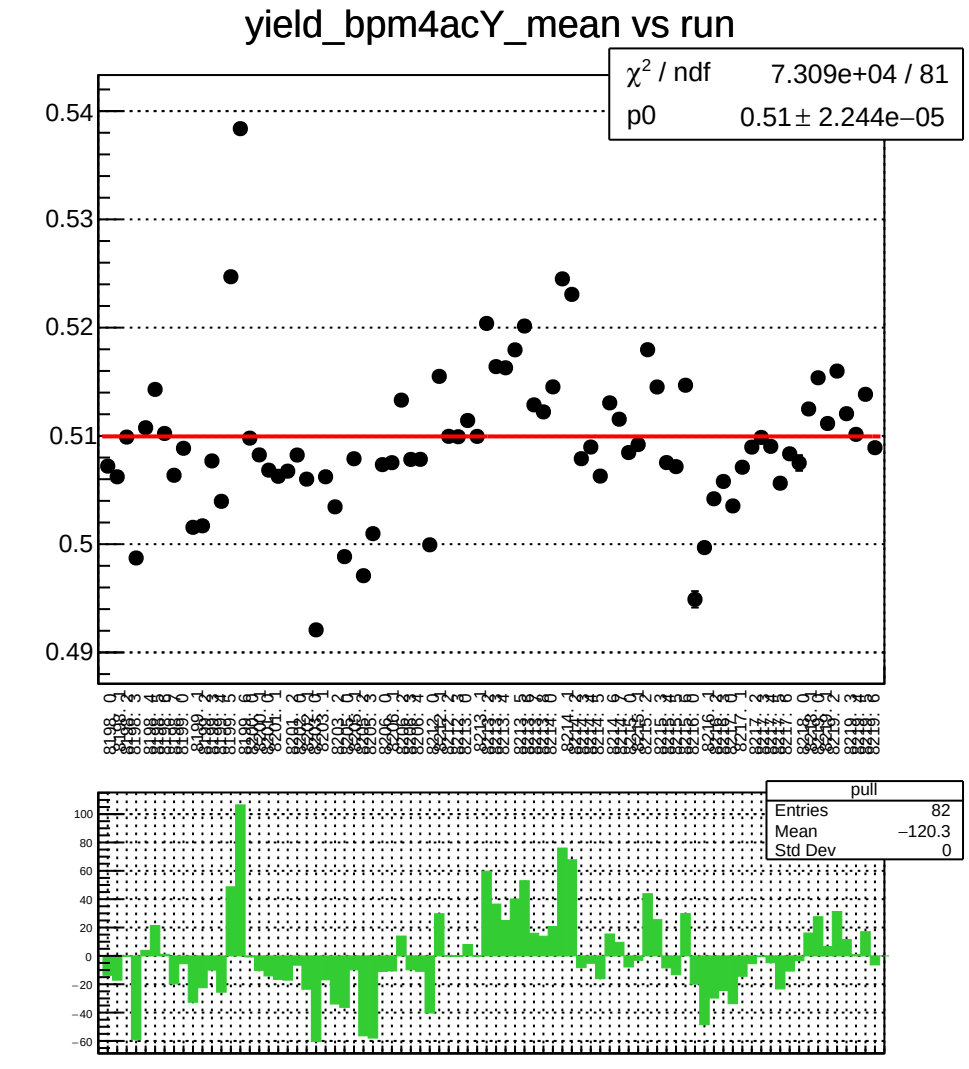

yield_bpm4eY_mean vs run
χ² / ndf 7.83e+04 / 81
p0 0.1341 ± 2.125e−05
0.16
0.15
0.14
0.13
0.12
pull
Entries 82
Mean −213.9
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

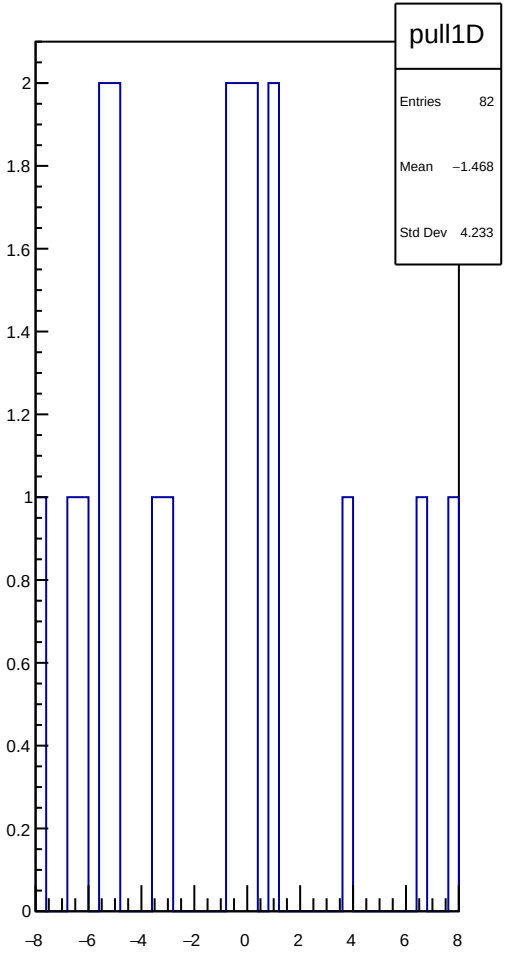

pull1D
Entries 82
Mean −0.4448
Std Dev 4.227
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

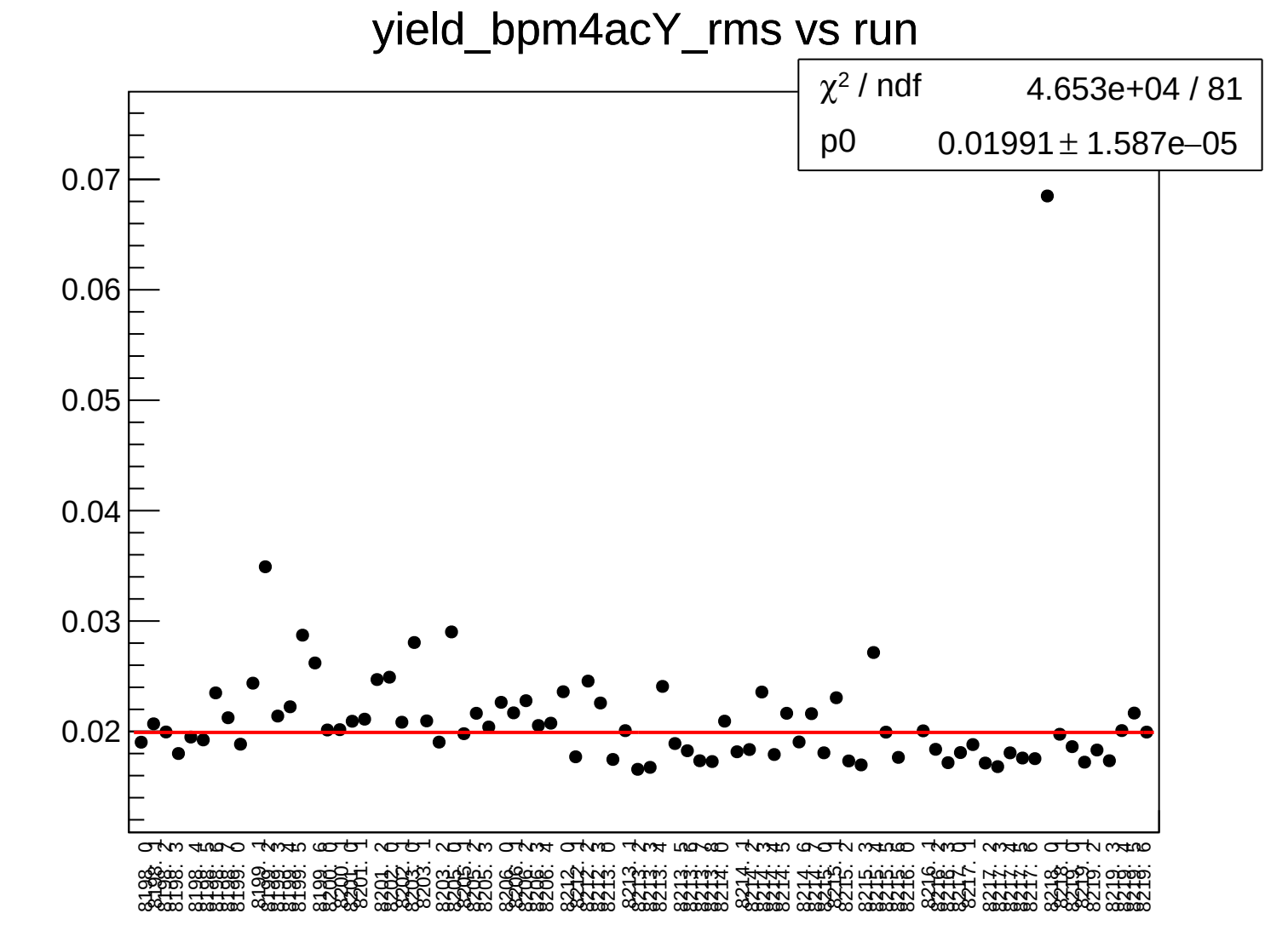

yield_bpm4eY_rms vs run
χ² / ndf 5.111e+04 / 81
p0 0.01883 ± 1.502e−05
0.07
0.06
0.05
0.04
0.03
0.02

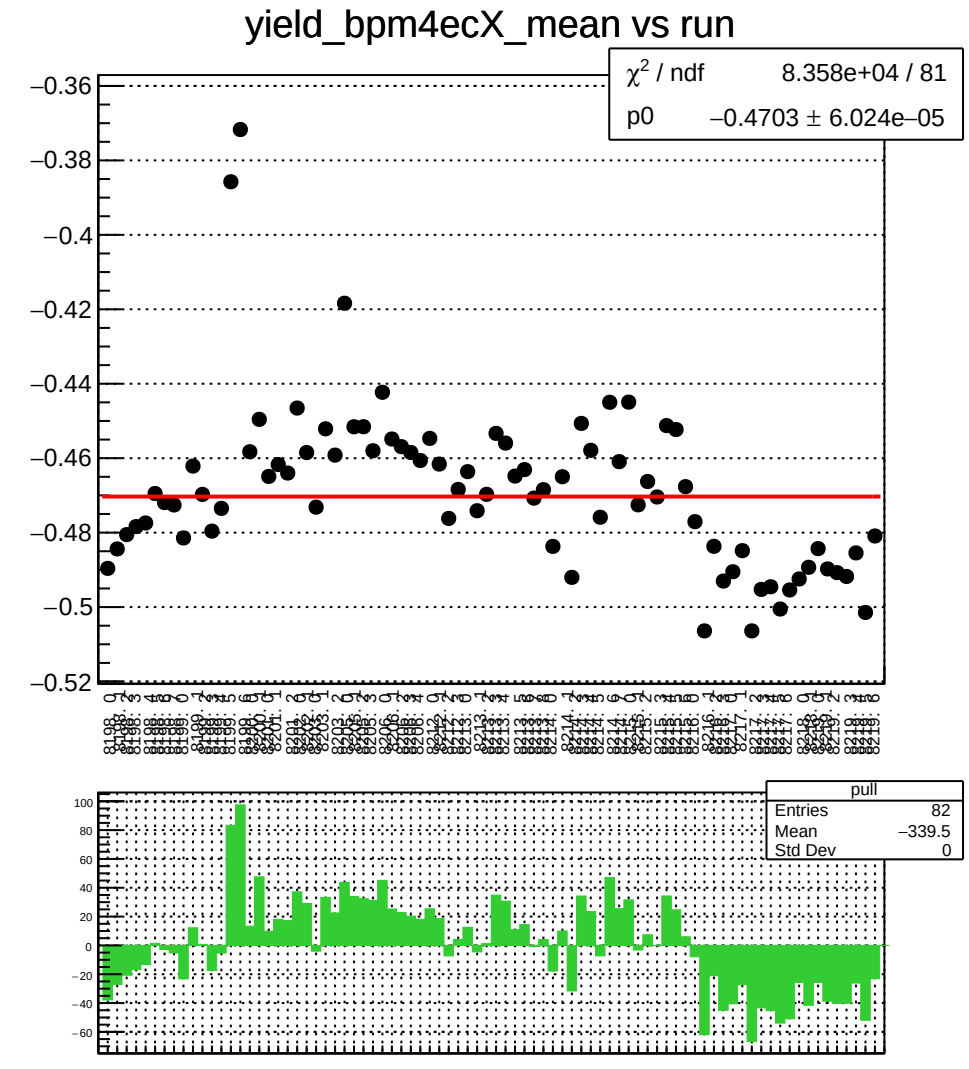

yield_bpm4acX_mean vs run
χ² / ndf 7.928e+04 / 81
p0 −1.201 ± 6.181e−05
−1.1
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
pull
Entries 82
Mean −360.2
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 82
Mean −0.1672
Std Dev 4.311
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

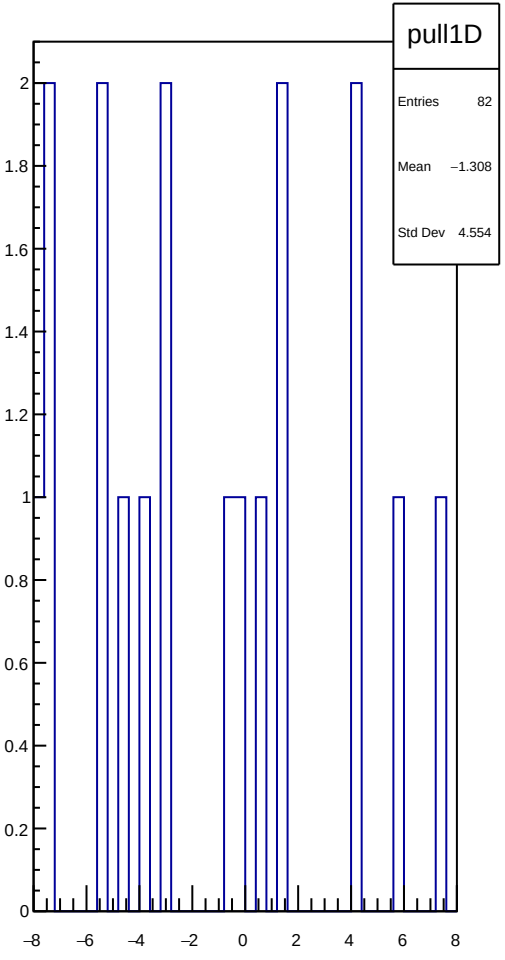

yield_bpm4acX_rms vs run
χ² / ndf 3.965e+04 / 81
p0 0.05496 ± 4.371e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

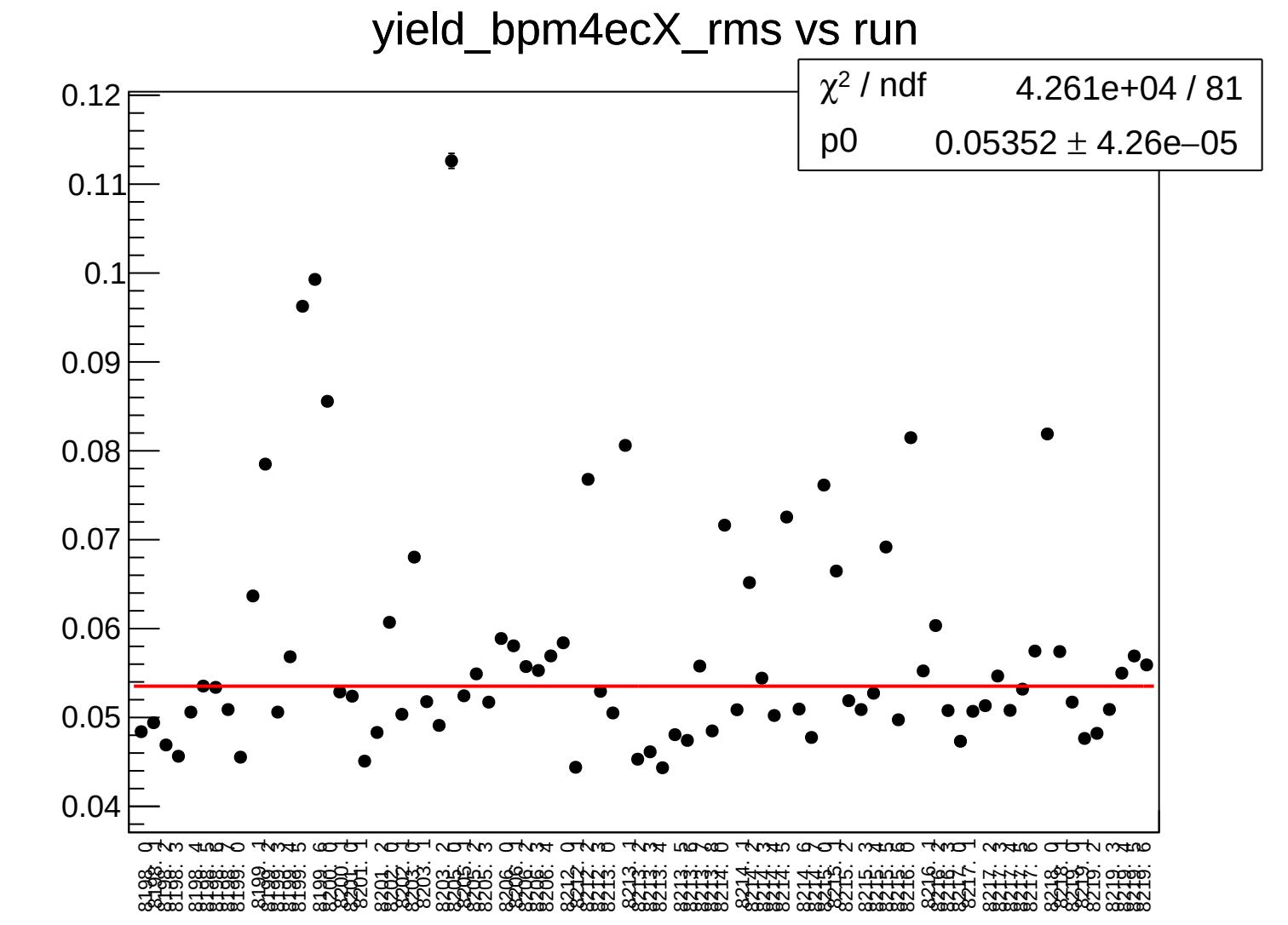

yield_bpm4acY_mean vs run
χ² / ndf 7.309e+04 / 81
p0 0.51 ± 2.244e−05
0.54
0.53
0.52
0.51
0.5
0.49
pull
Entries 82
Mean −120.3
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

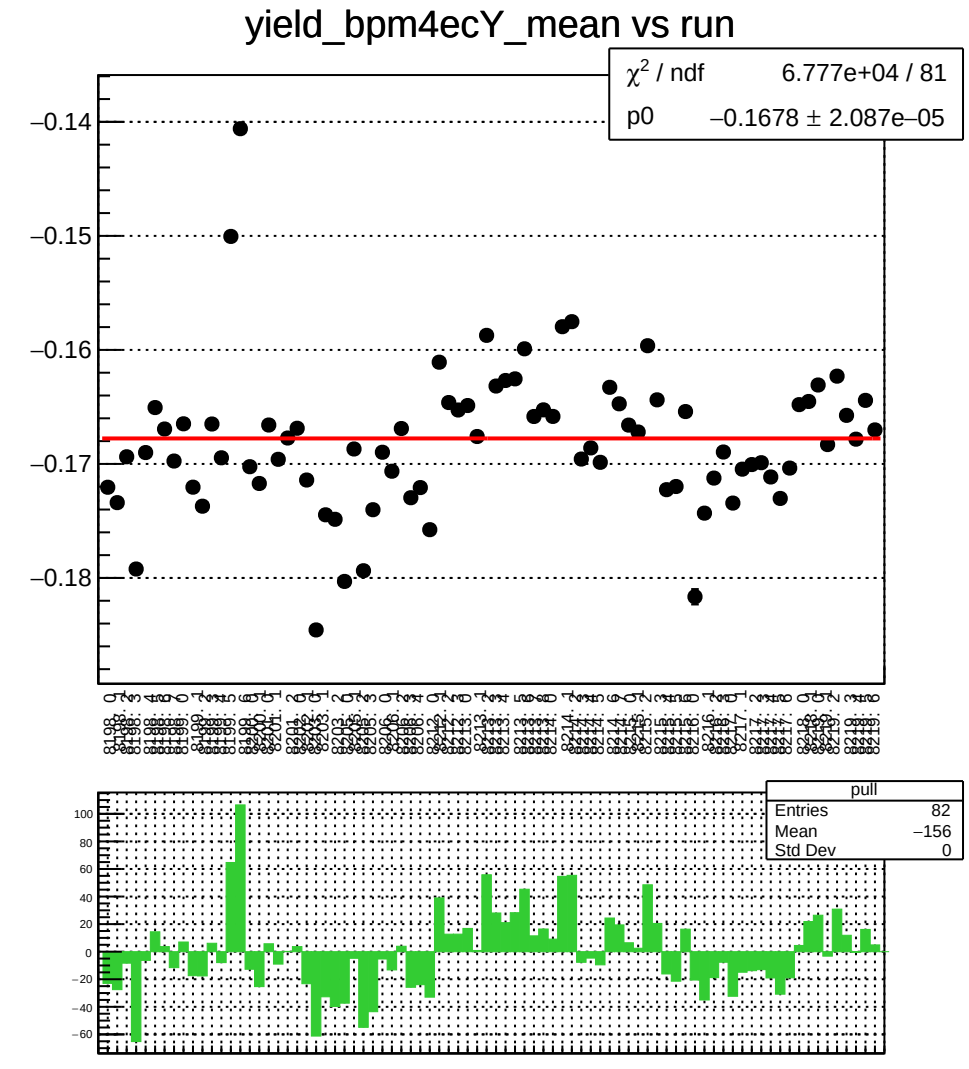

pull1D
Entries 82
Mean −1.468
Std Dev 4.233
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

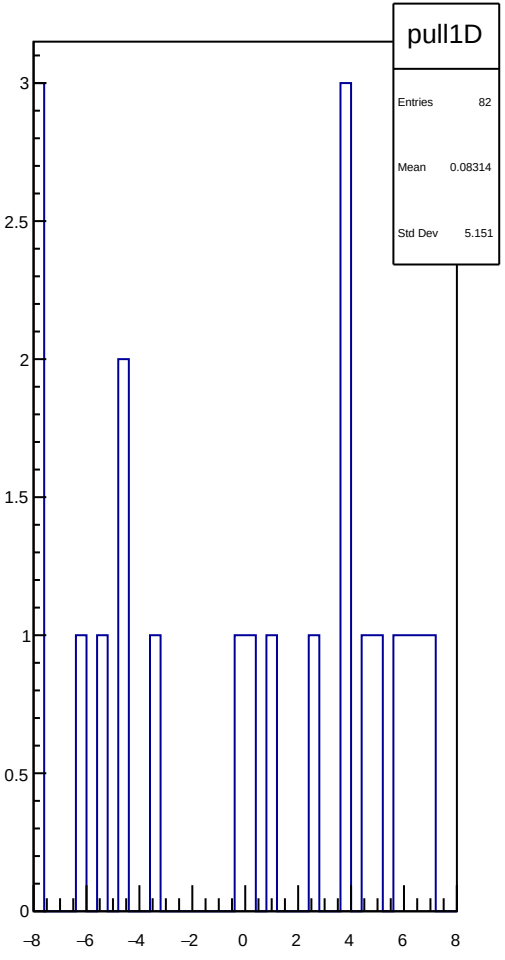

yield_bpm4acY_rms vs run
χ² / ndf 4.653e+04 / 81
p0 0.01991 ± 1.587e−05
0.07
0.06
0.05
0.04
0.03
0.02

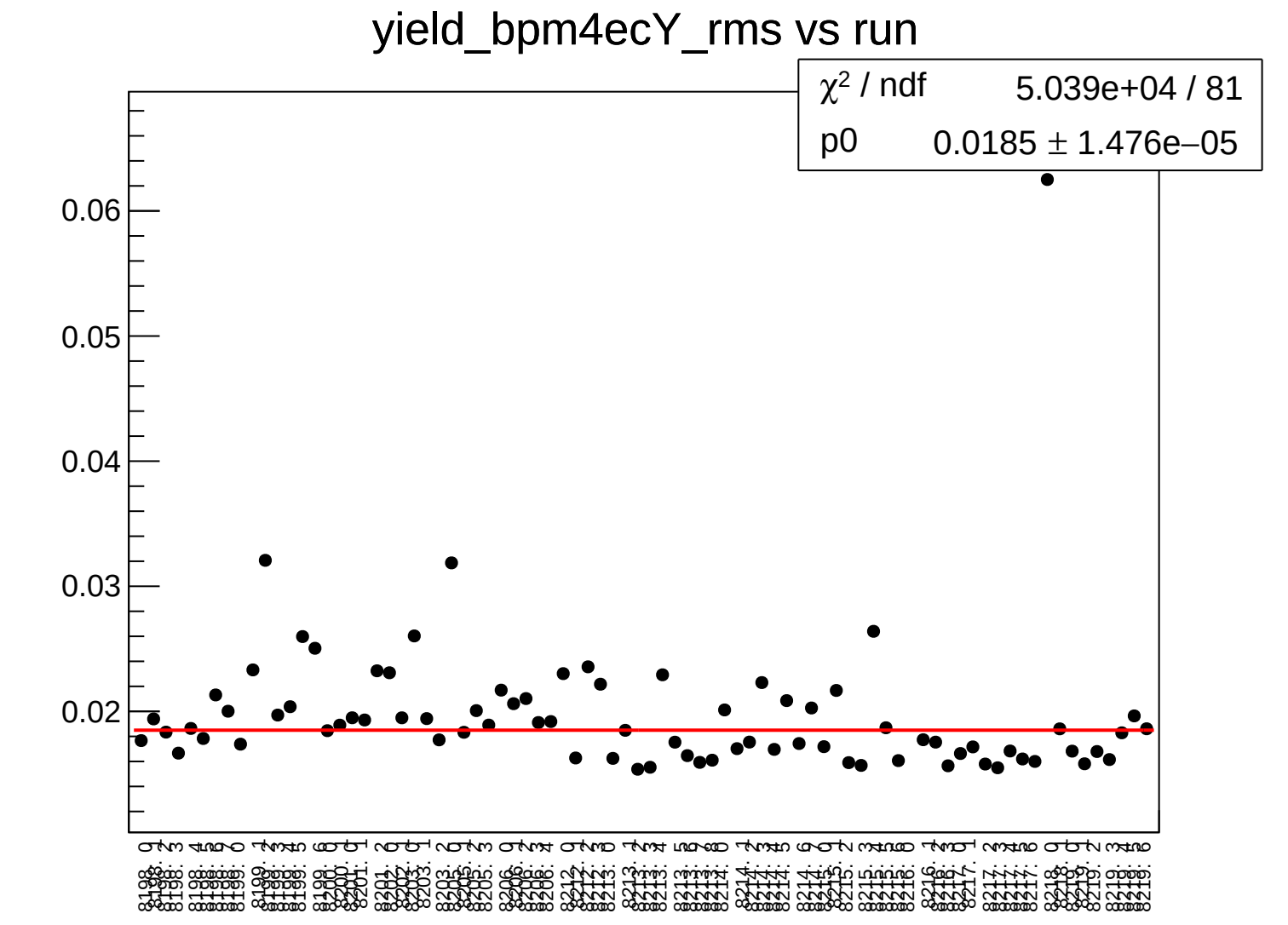

yield_bpm4ecX_mean vs run
χ² / ndf 8.358e+04 / 81
p0 −0.4703 ± 6.024e−05
pull
Entries 82
Mean −339.5
Std Dev 0

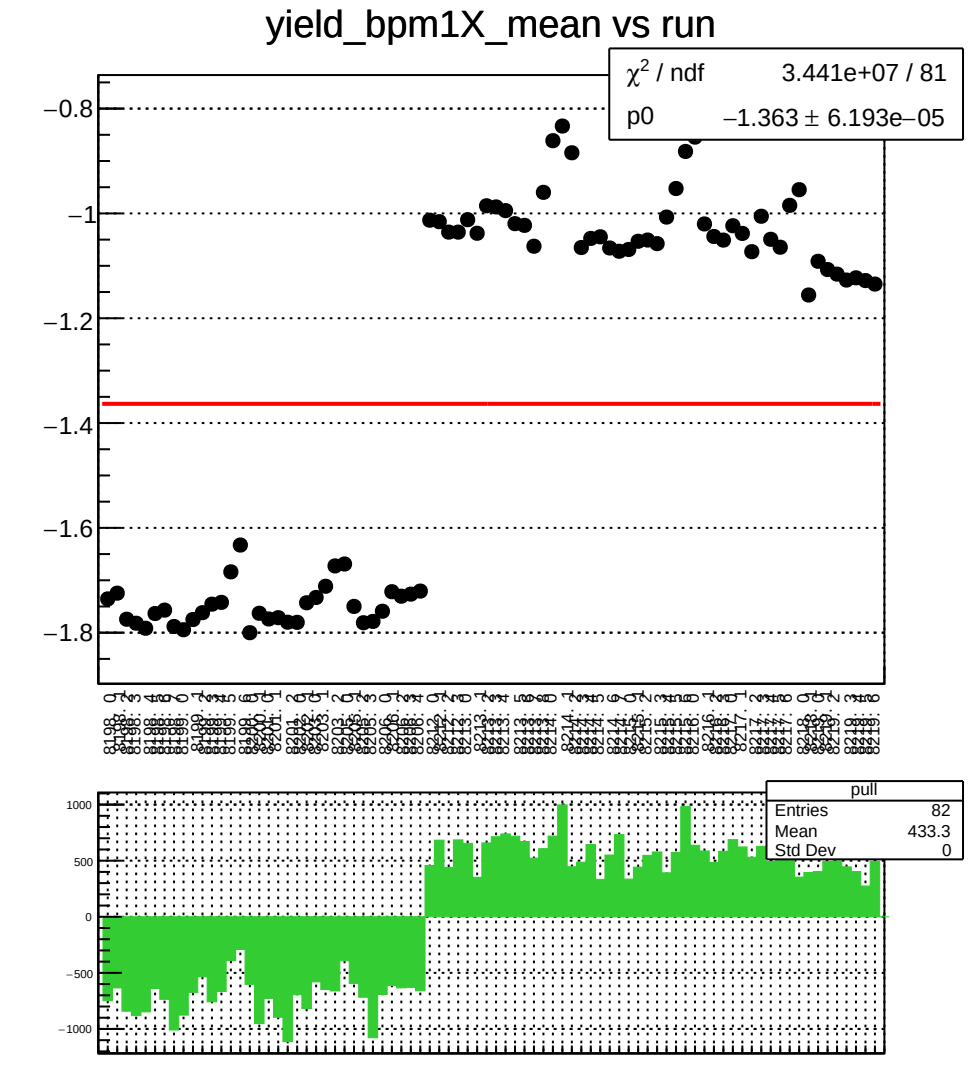

pull1D
Entries 82
Mean −1.308
Std Dev 4.554

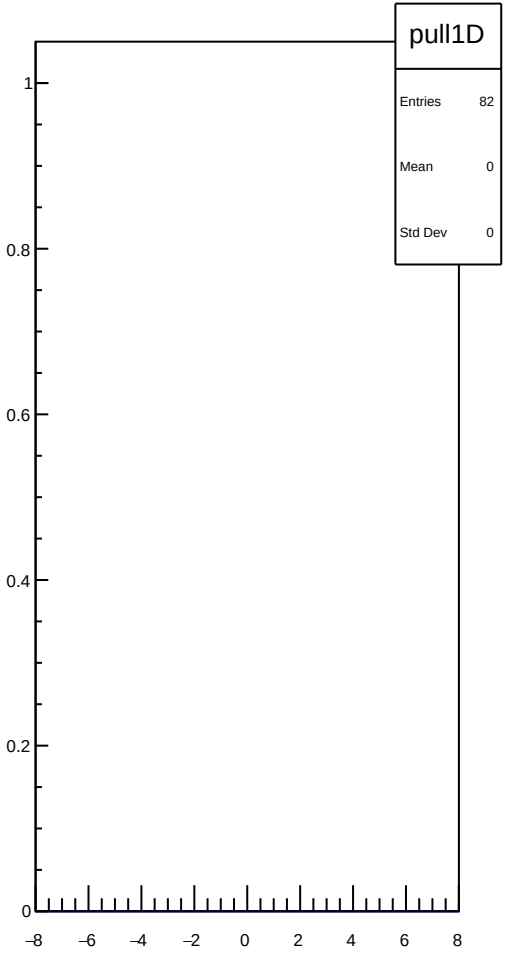

yield_bpm4ecX_rms vs run
χ² / ndf 4.261e+04 / 81
p0 0.05352 ± 4.26e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

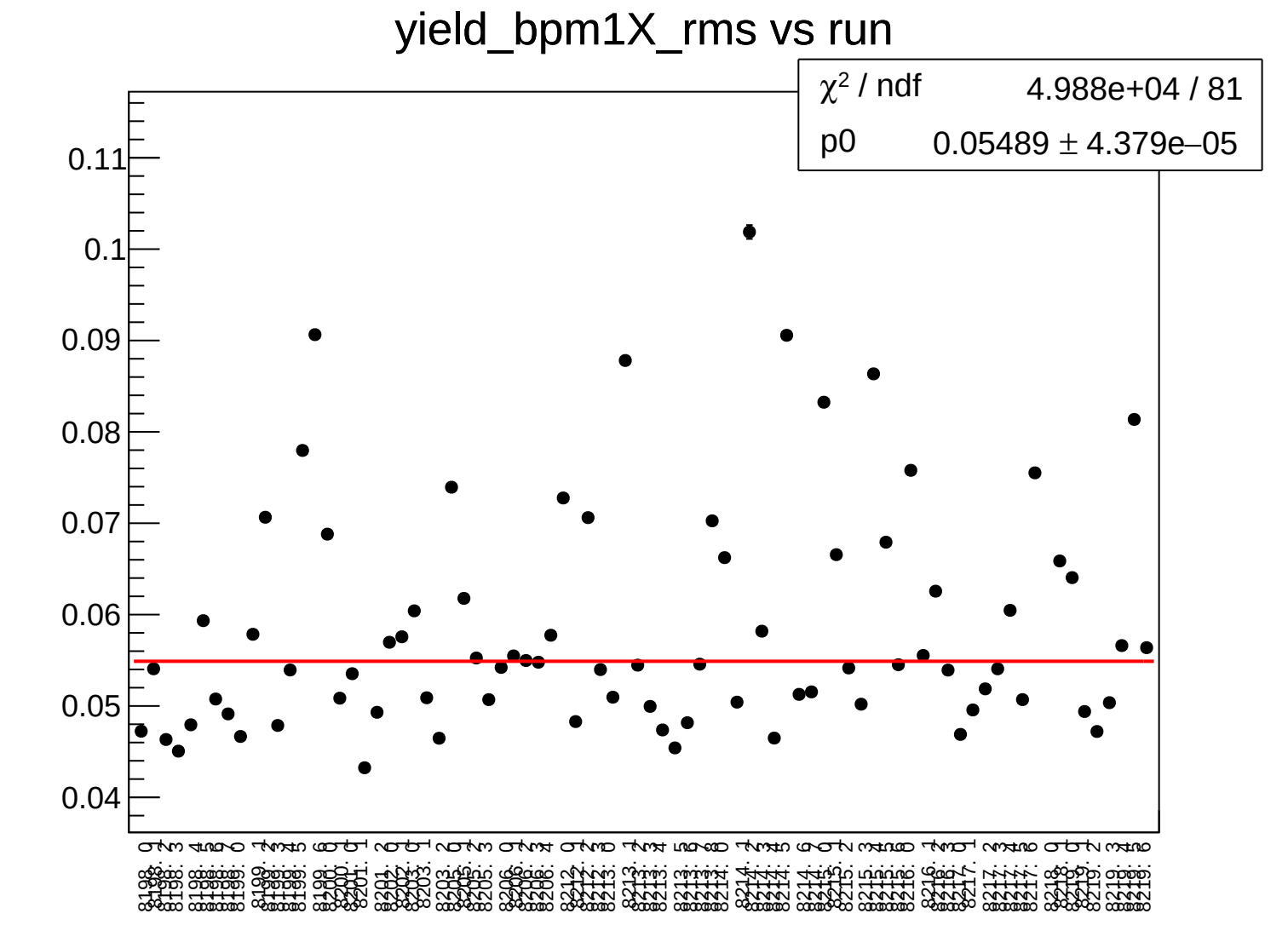

yield_bpm4ecY_mean vs run
χ² / ndf 6.777e+04 / 81
p0 −0.1678 ± 2.087e−05
−0.14
−0.15
−0.16
−0.17
−0.18
pull
Entries 82
Mean −156
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

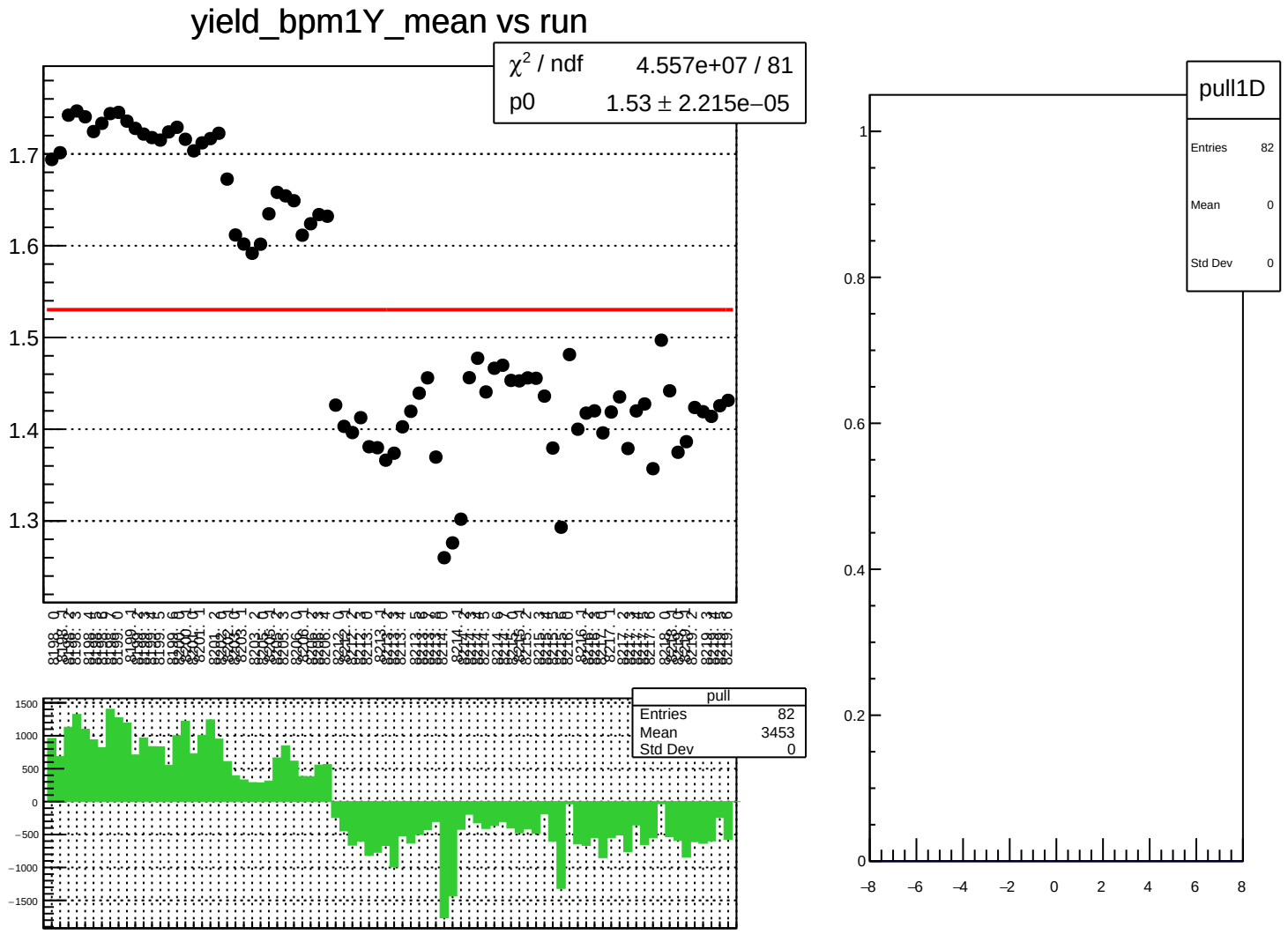

pull1D
Entries 82
Mean 0.08314
Std Dev 5.151
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

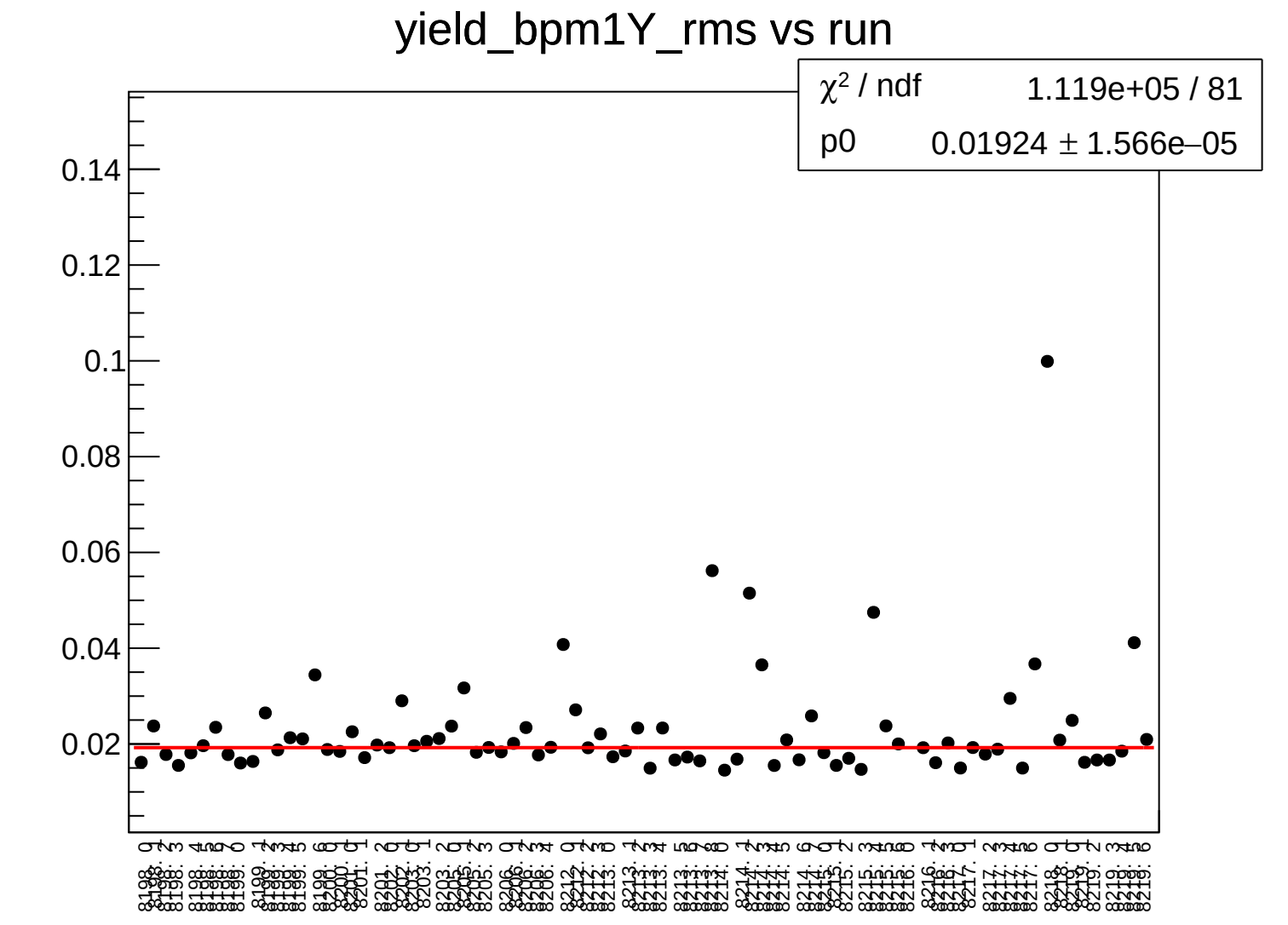

yield_bpm4ecY_rms vs run
χ² / ndf 5.039e+04 / 81
p0 0.0185 ± 1.476e−05
0.06
0.05
0.04
0.03
0.02

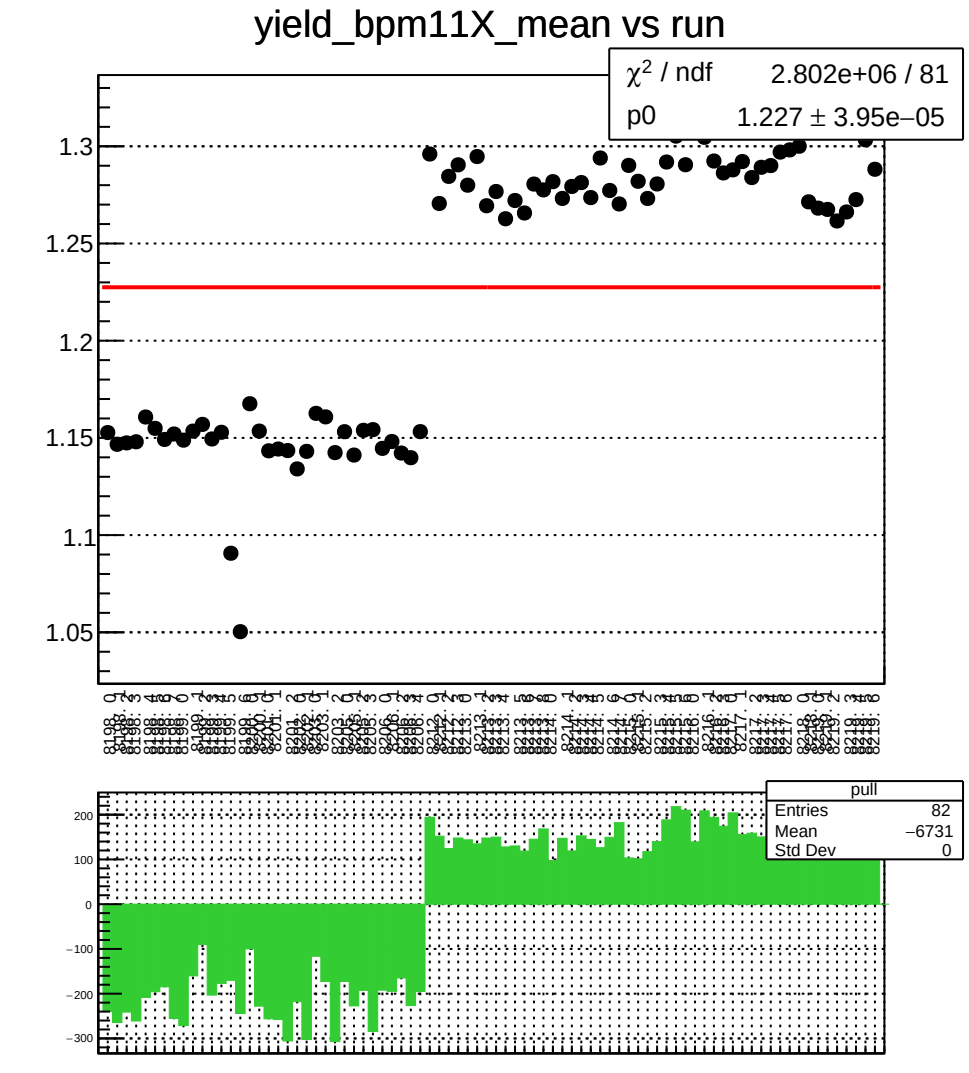

yield_bpm1X_mean vs run
χ² / ndf 3.441e+07 / 81
p0 −1.363 ± 6.193e−05
−0.8
−1
−1.2
−1.4
−1.6
−1.8
pull
Entries 82
Mean 433.3
Std Dev 0
1000
500
0
−500
−1000

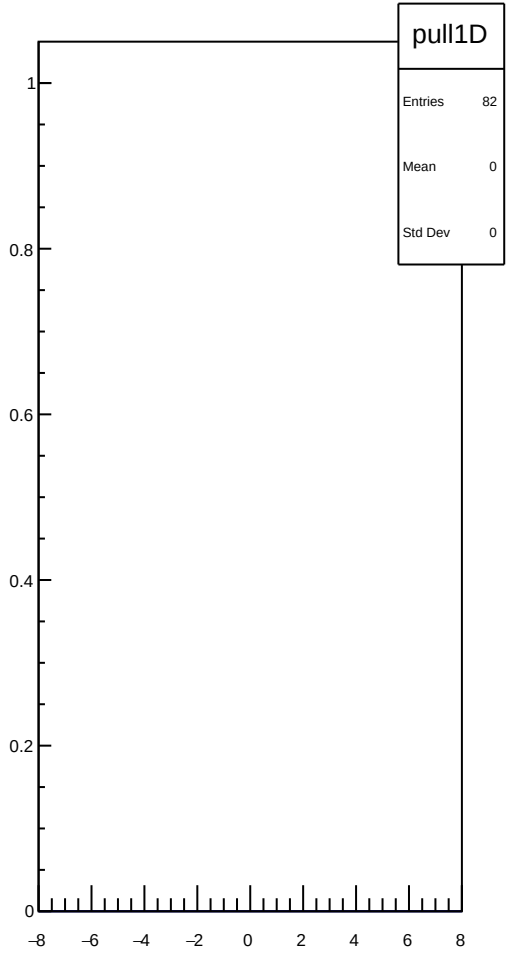

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

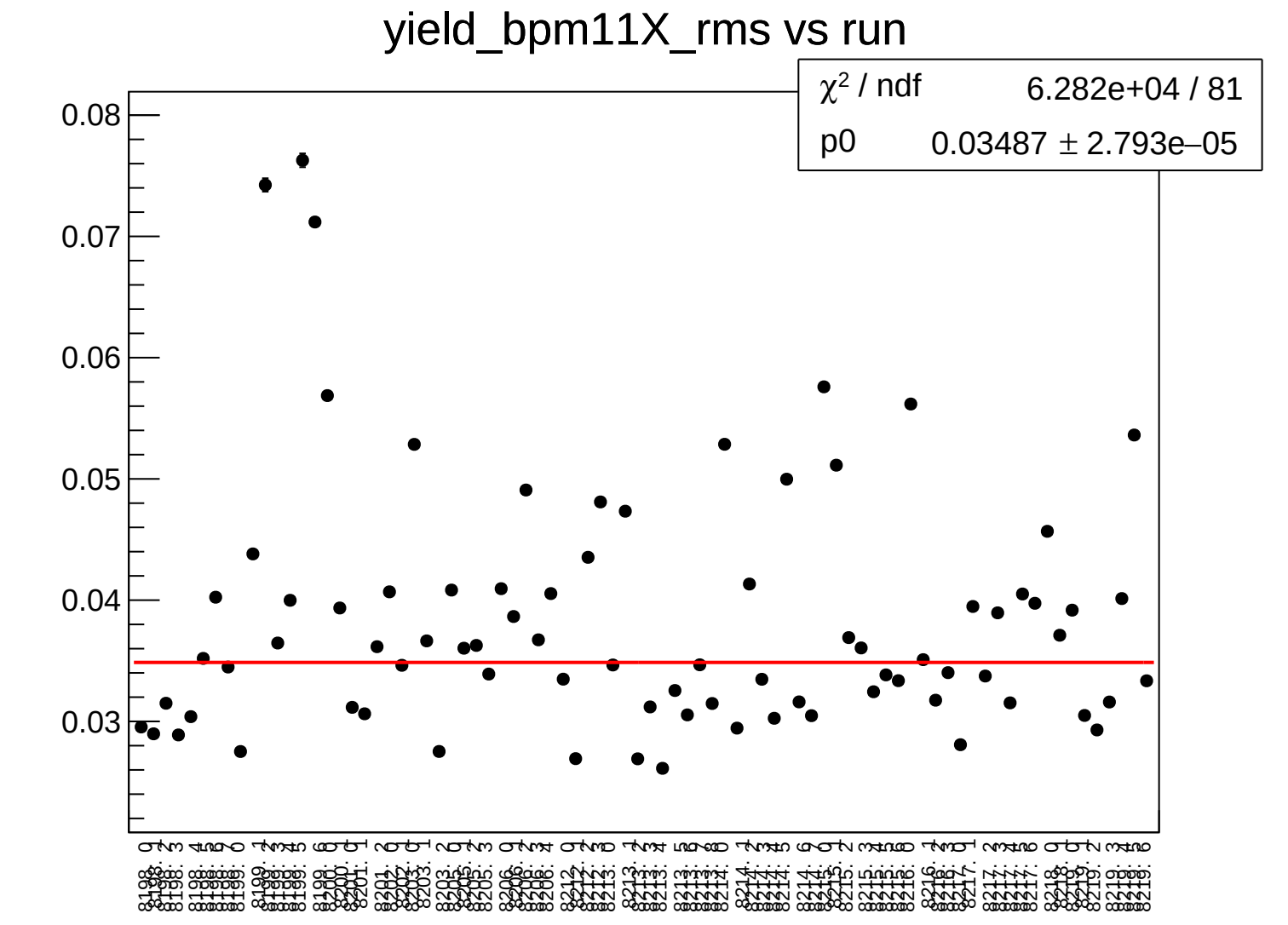

yield_bpm1X_rms vs run
χ² / ndf 4.988e+04 / 81
p0 0.05489 ± 4.379e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

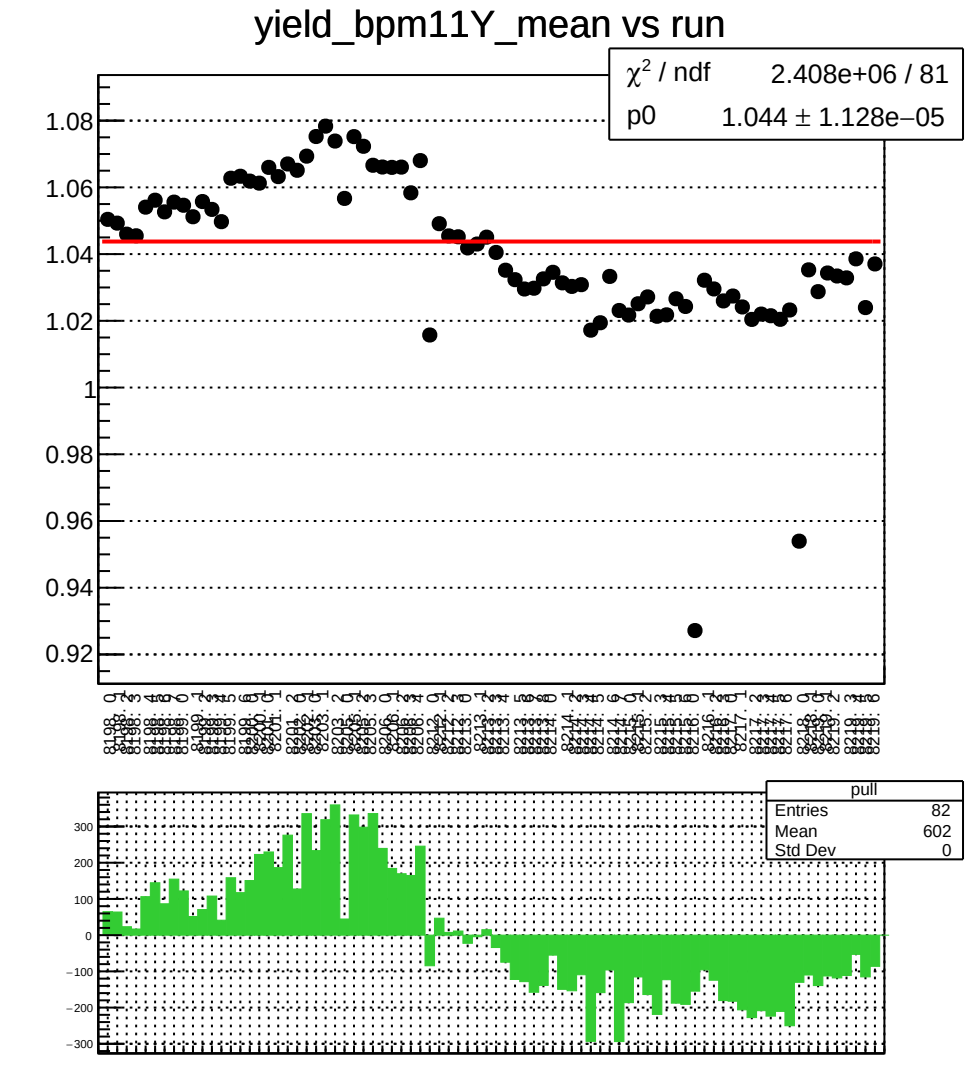

yield_bpm1Y_mean vs run
χ² / ndf 4.557e+07 / 81
p0 1.53 ± 2.215e−05
1.7
1.6
1.5
1.4
1.3
pull
Entries 82
Mean 3453
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

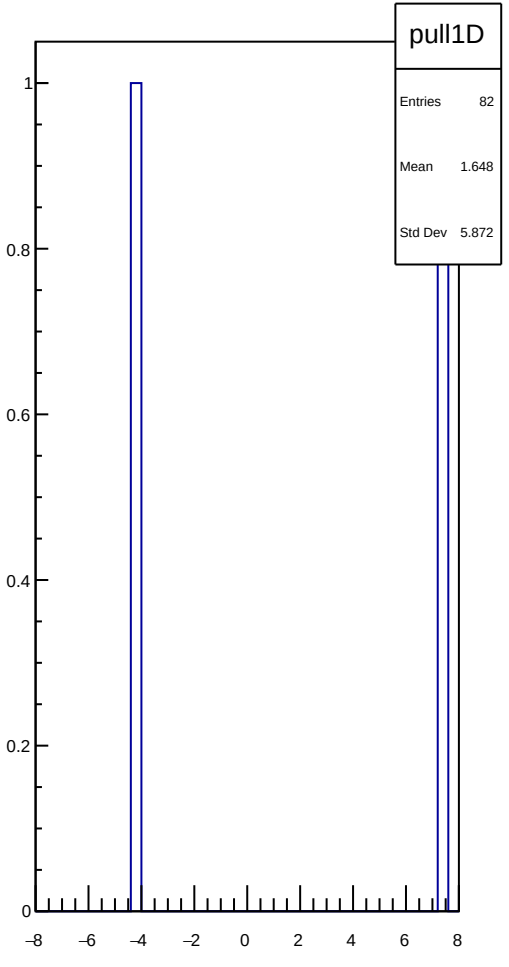

yield_bpm1Y_rms vs run
χ² / ndf 1.119e+05 / 81
p0 0.01924 ± 1.566e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

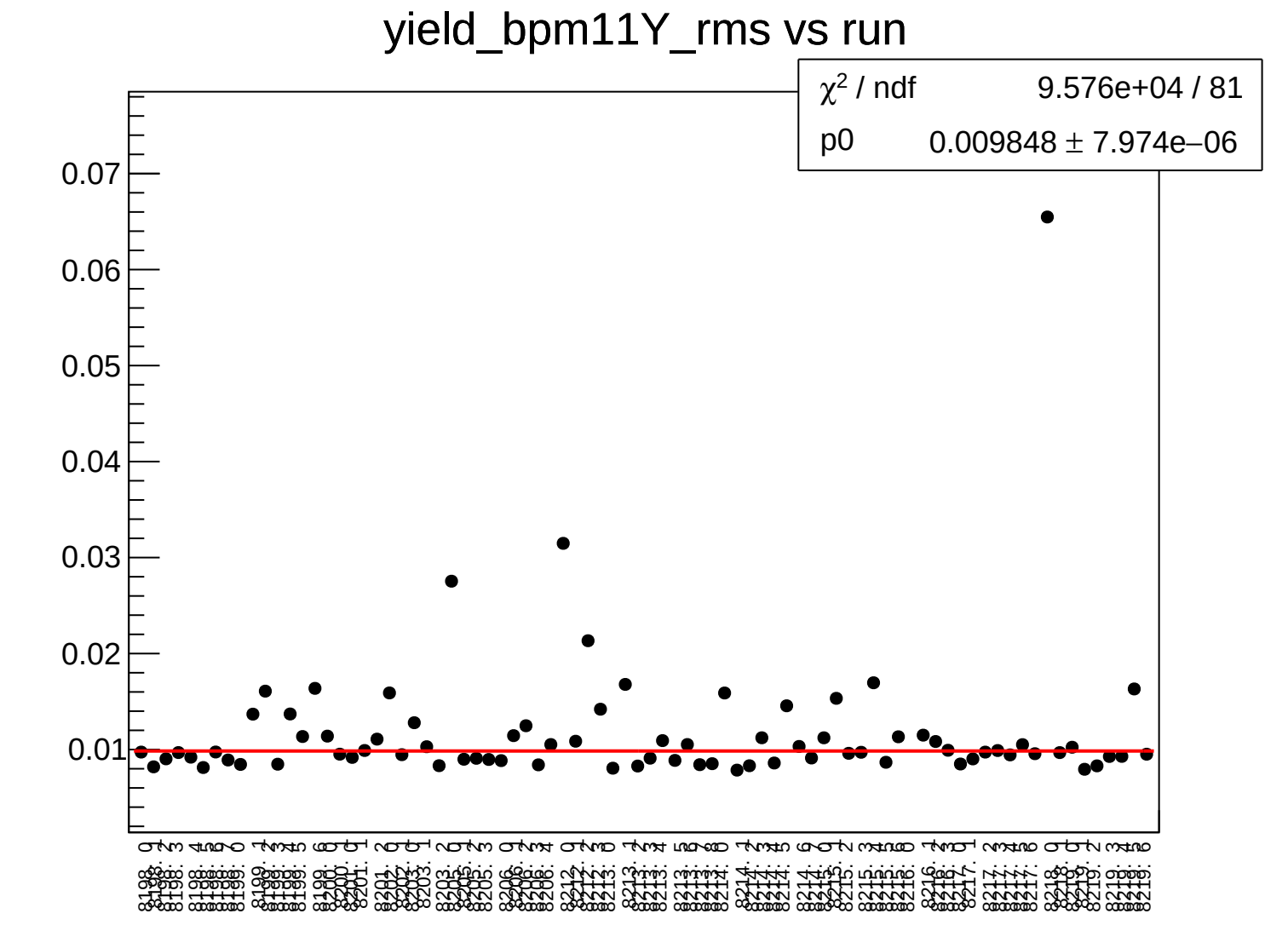

yield_bpm11X_mean vs run
χ² / ndf 2.802e+06 / 81
p0 1.227 ± 3.95e−05
1.3
1.25
1.2
1.15
1.1
1.05
pull
Entries 82
Mean −6731
Std Dev 0
200
100
0
−100
−200
−300

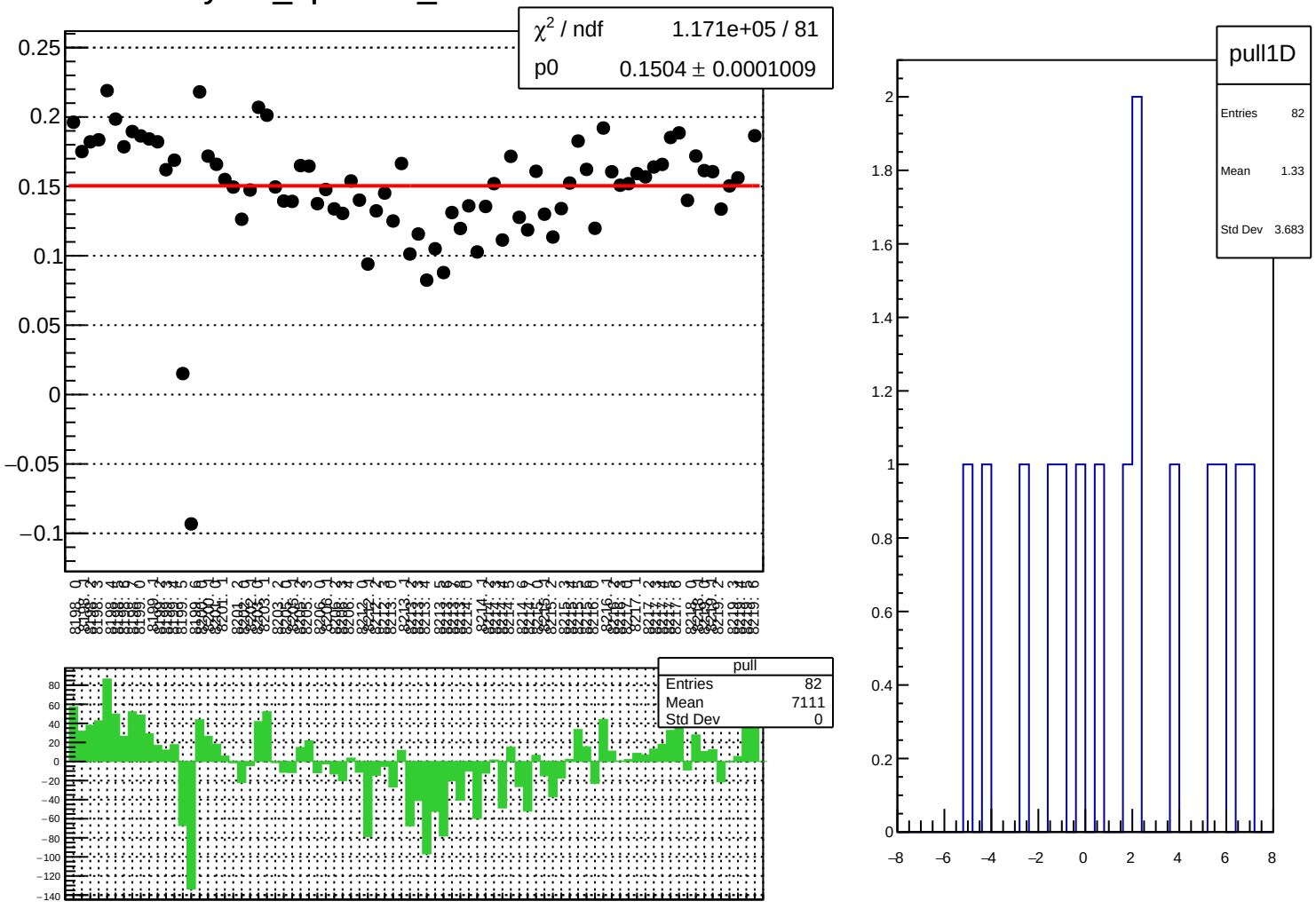

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

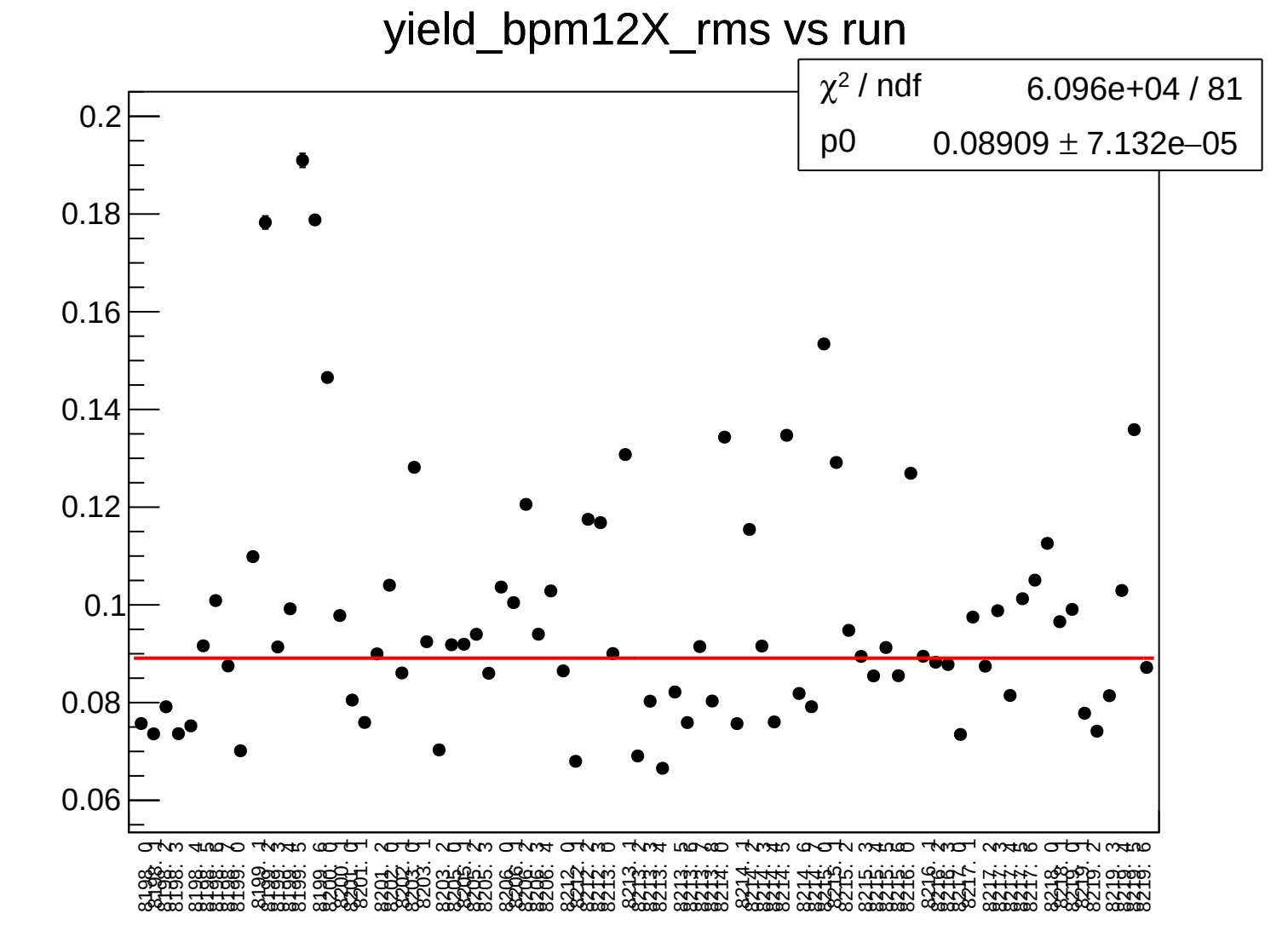

yield_bpm11X_rms vs run
χ² / ndf 6.282e+04 / 81
p0 0.03487 ± 2.793e–05
0.08
0.07
0.06
0.05
0.04
0.03

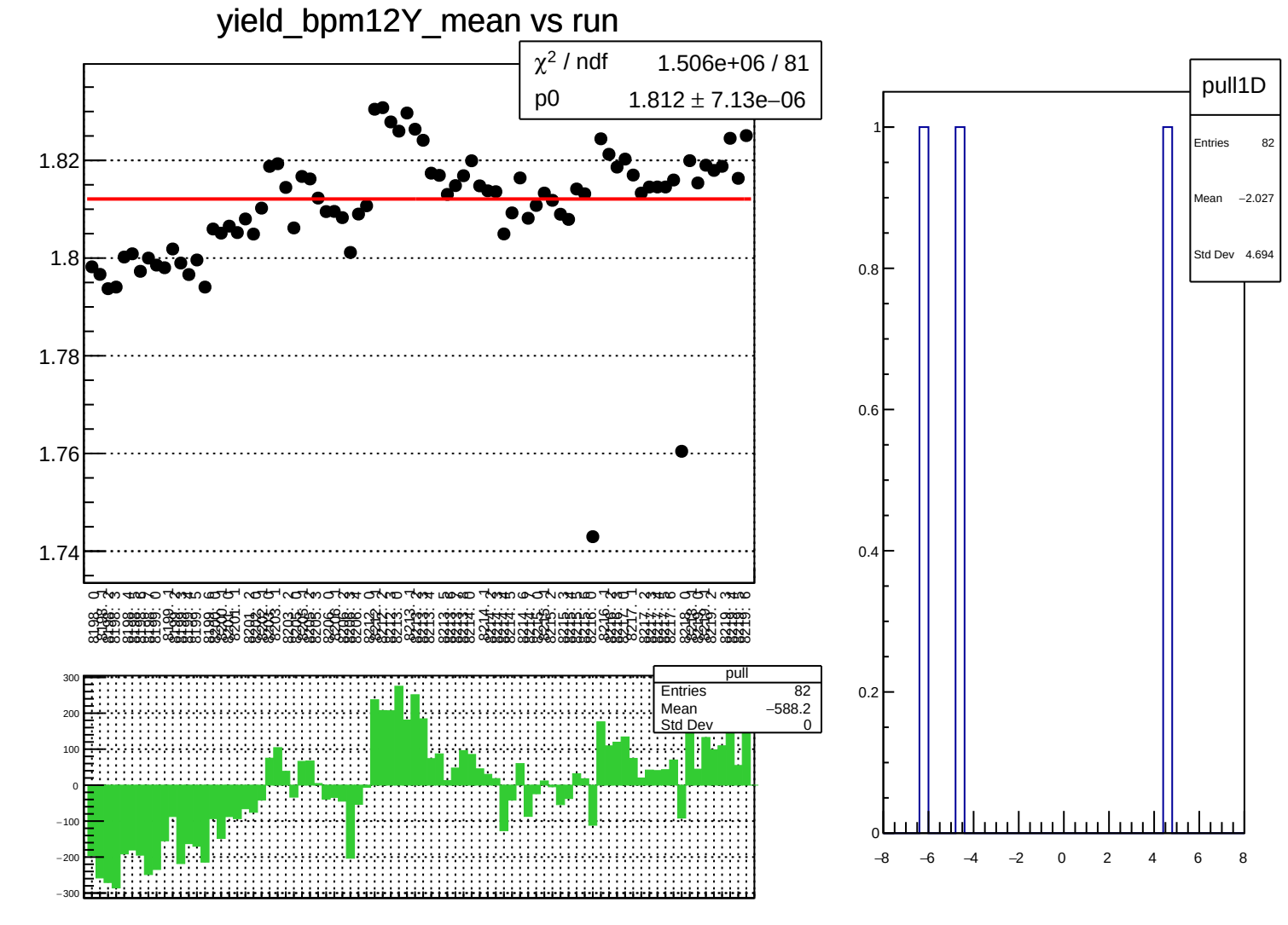

yield_bpm11Y_mean vs run
χ² / ndf 2.408e+06 / 81
p0 1.044 ± 1.128e−05
pull
Entries 82
Mean 602
Std Dev 0

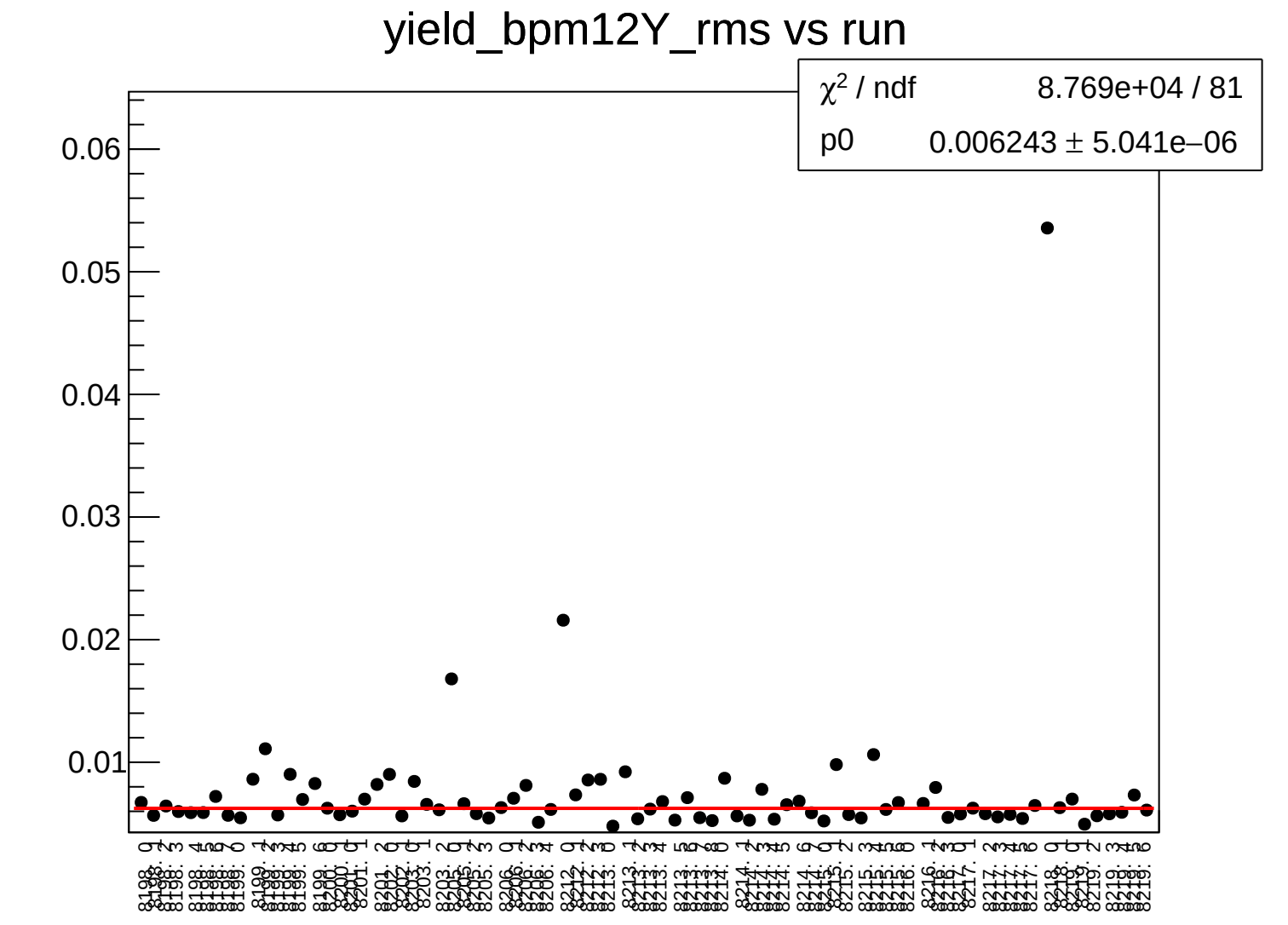

pull1D
Entries 82
Mean 1.648
Std Dev 5.872

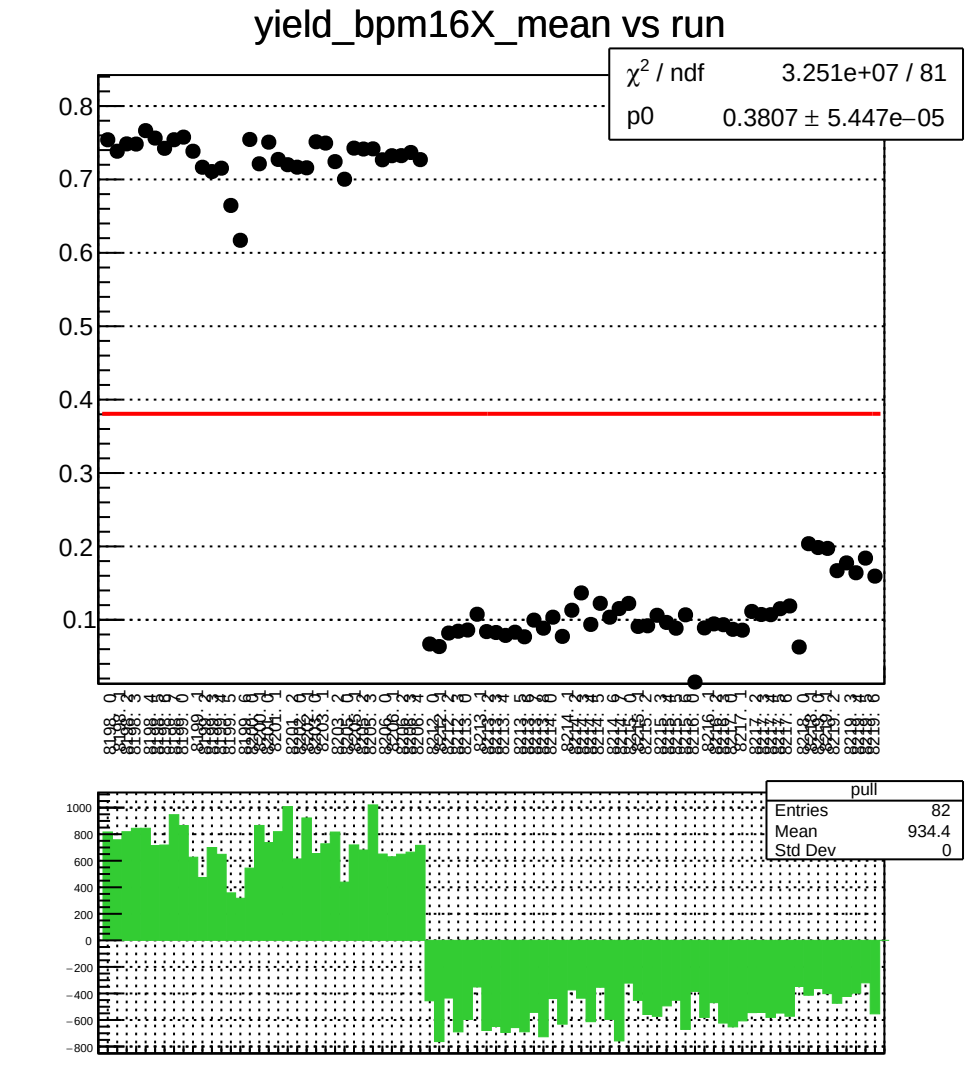

yield_bpm11Y_rms vs run
χ² / ndf 9.576e+04 / 81
p0 0.009848 ± 7.974e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

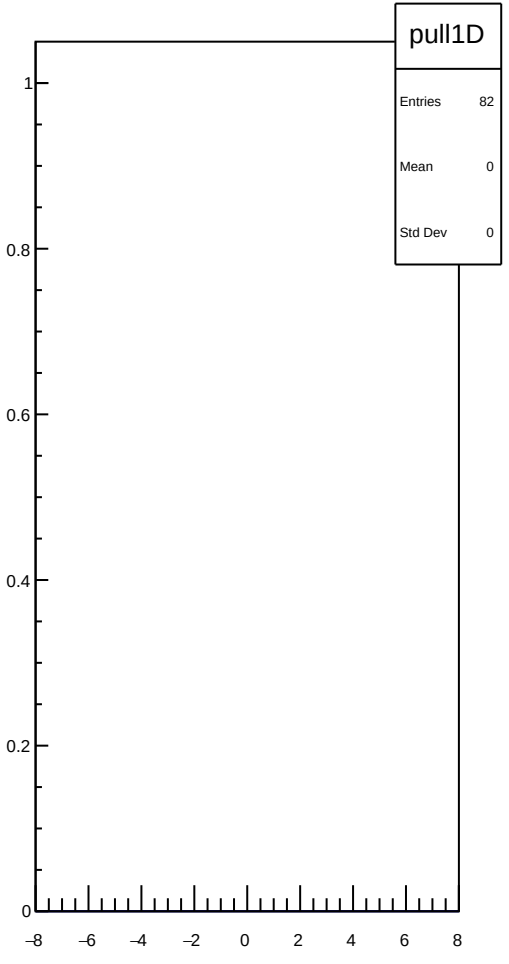

yield_bpm12X_mean vs run
χ² / ndf 1.171e+05 / 81
p0 0.1504 ± 0.0001009
pull
Entries 82
Mean 7111
Std Dev 0
pull1D
Entries 82
Mean 1.33
Std Dev 3.683

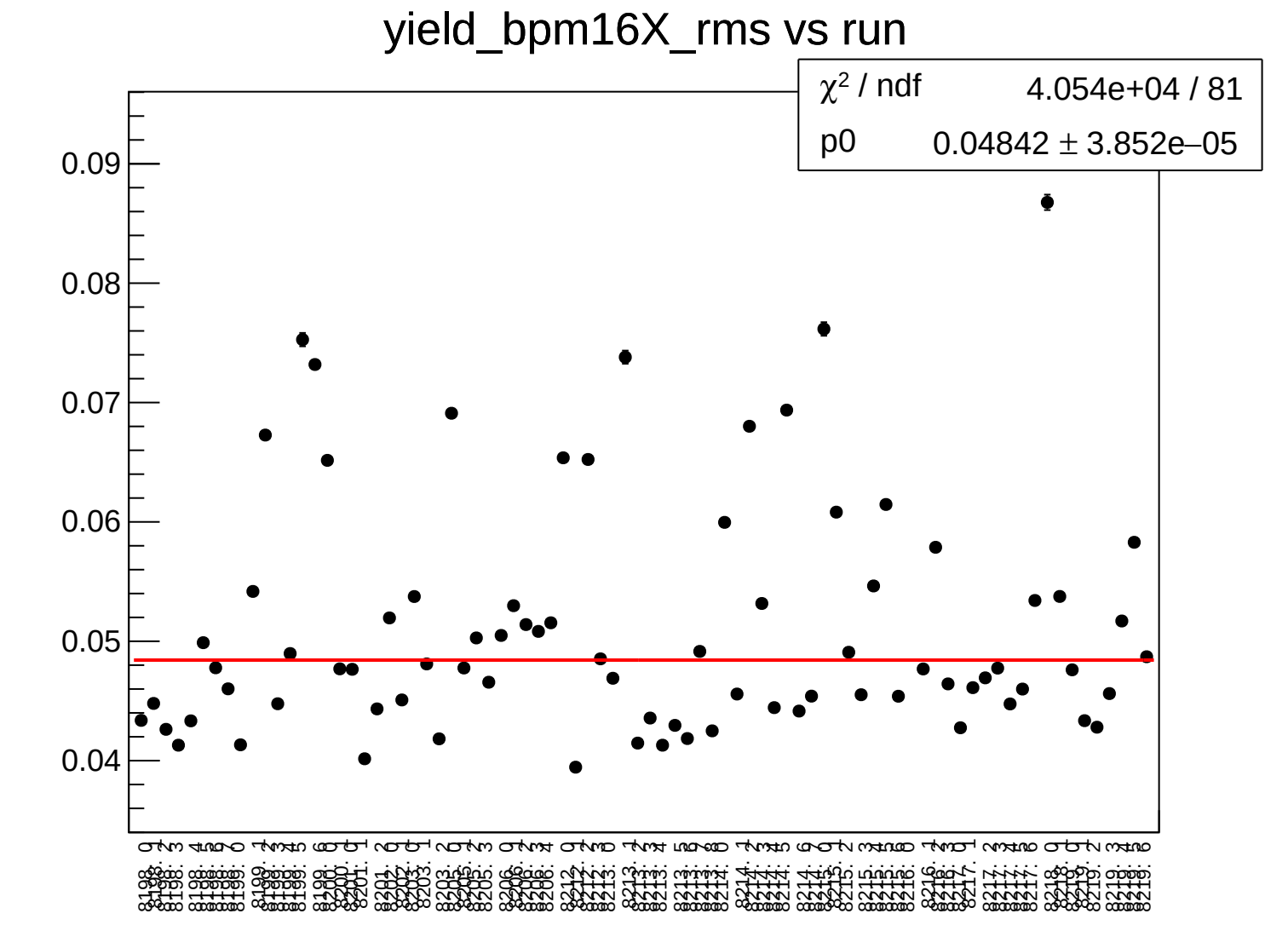

yield_bpm12X_rms vs run
χ² / ndf 6.096e+04 / 81
p0 0.08909 ± 7.132e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

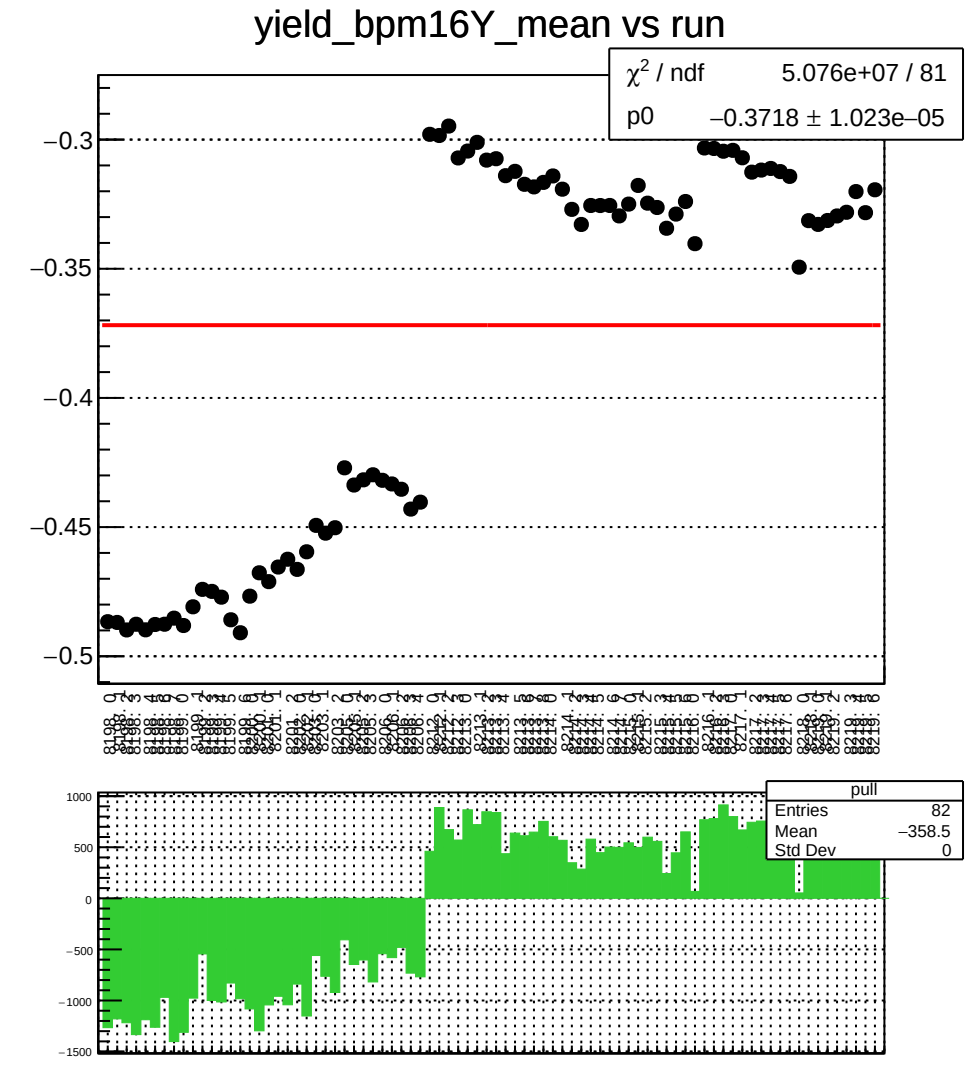

yield_bpm12Y_mean vs run
χ² / ndf 1.506e+06 / 81
p0 1.812 ± 7.13e−06
1.82
1.8
1.78
1.76
1.74
pull
Entries 82
Mean −588.2
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 82
Mean −2.027
Std Dev 4.694
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

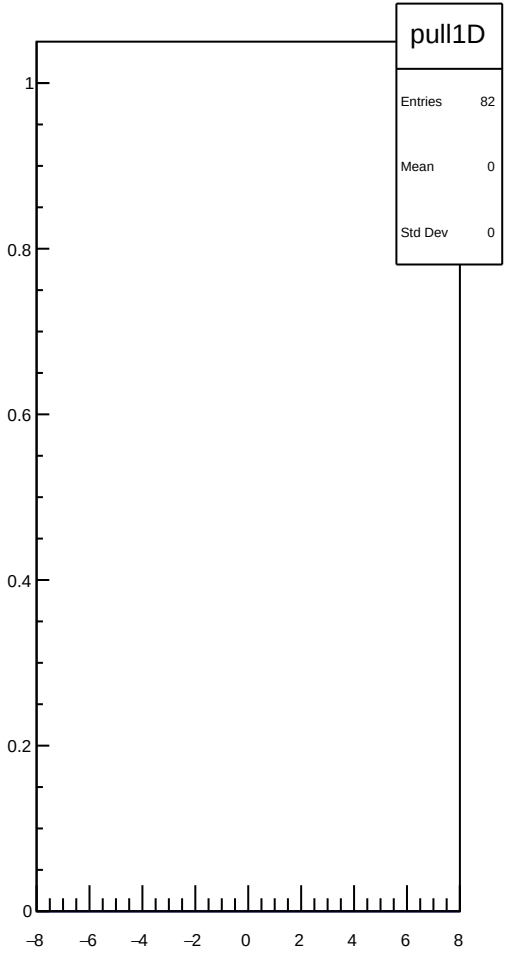

yield_bpm12Y_rms vs run
χ² / ndf 8.769e+04 / 81
p0 0.006243 ± 5.041e−06
0.06
0.05
0.04
0.03
0.02
0.01

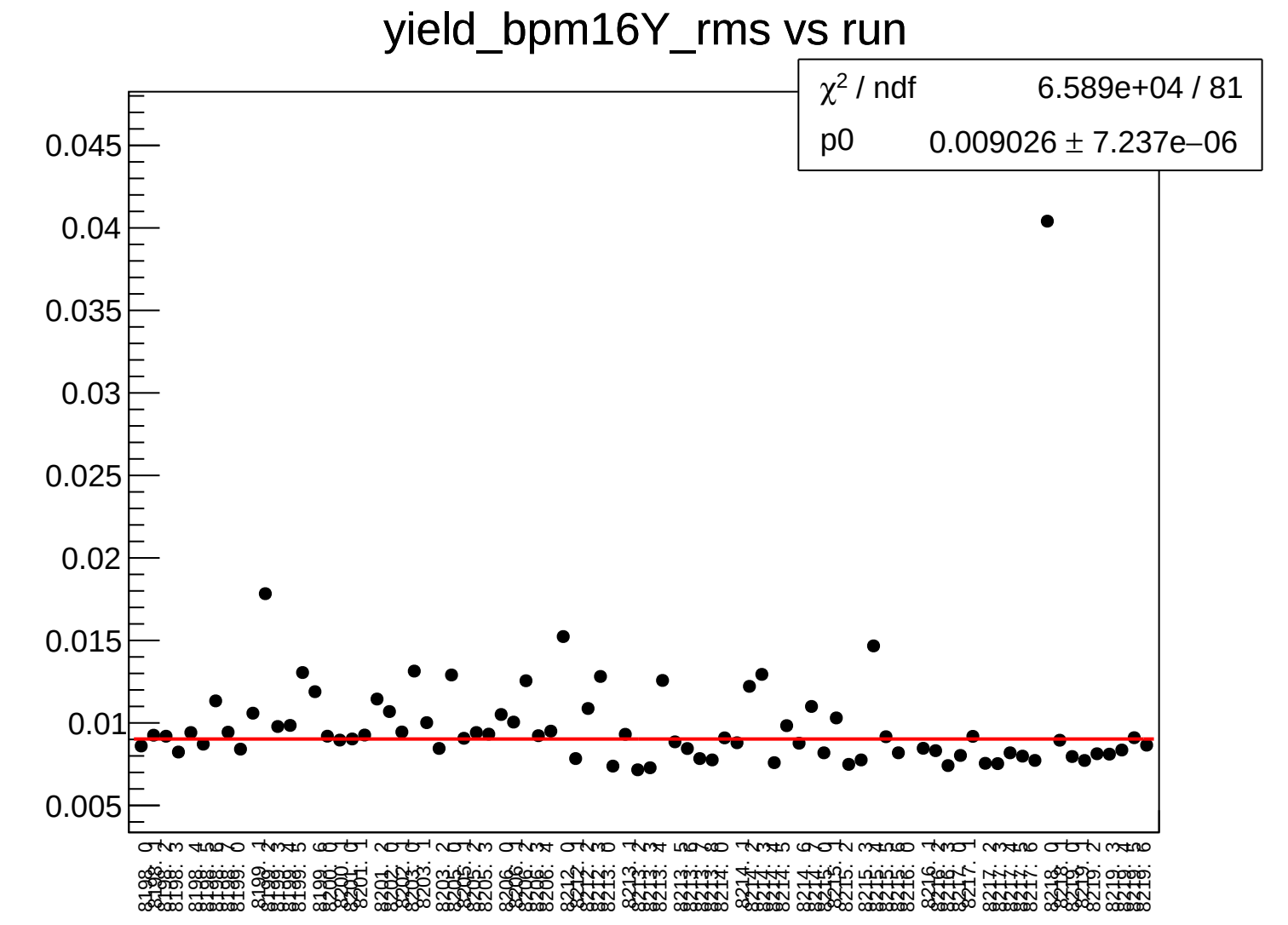

yield_bpm16X_mean vs run
χ² / ndf 3.251e+07 / 81
p0 0.3807 ± 5.447e−05
pull
Entries 82
Mean 934.4
Std Dev 0

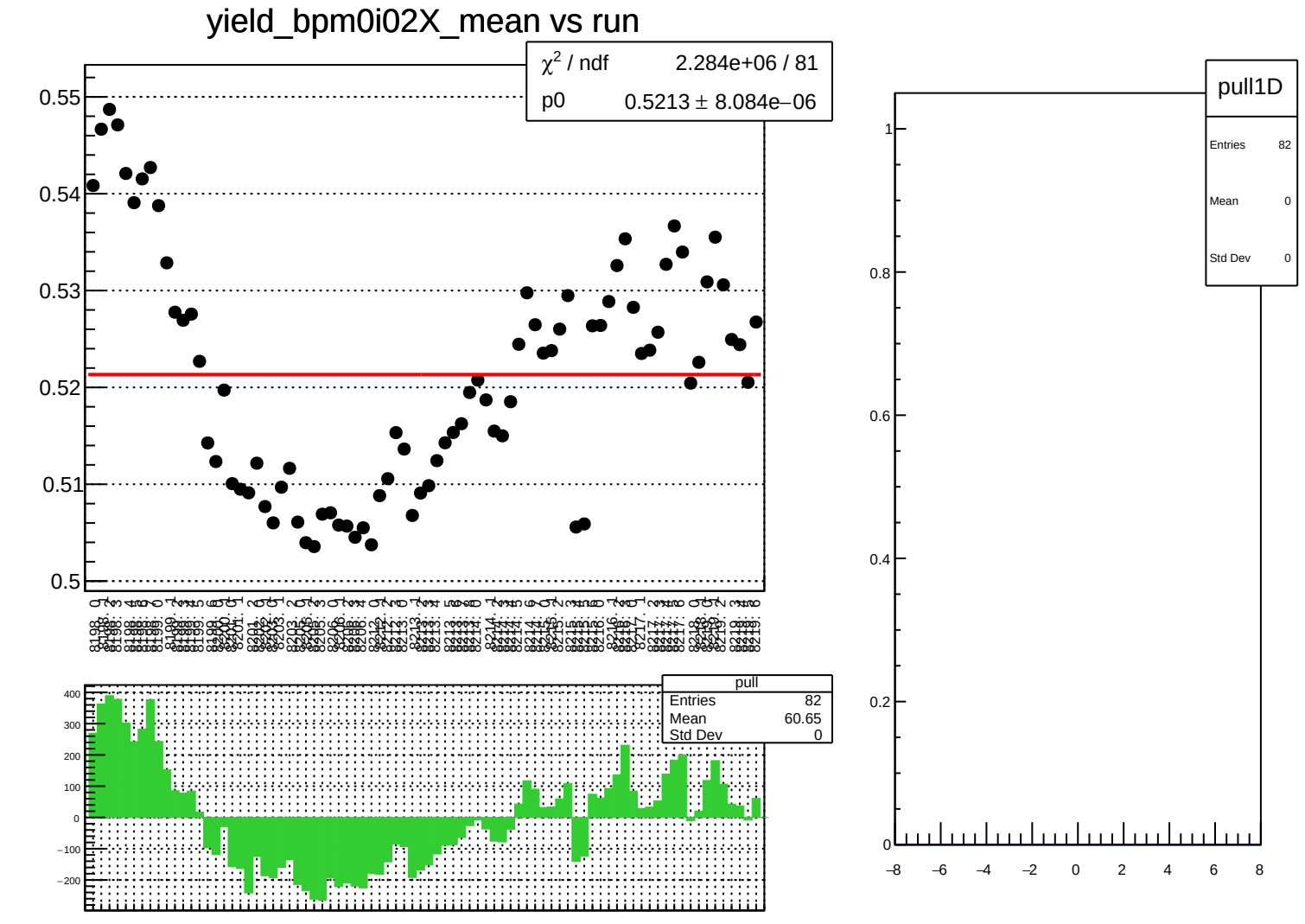

pull1D
Entries 82
Mean 0
Std Dev 0

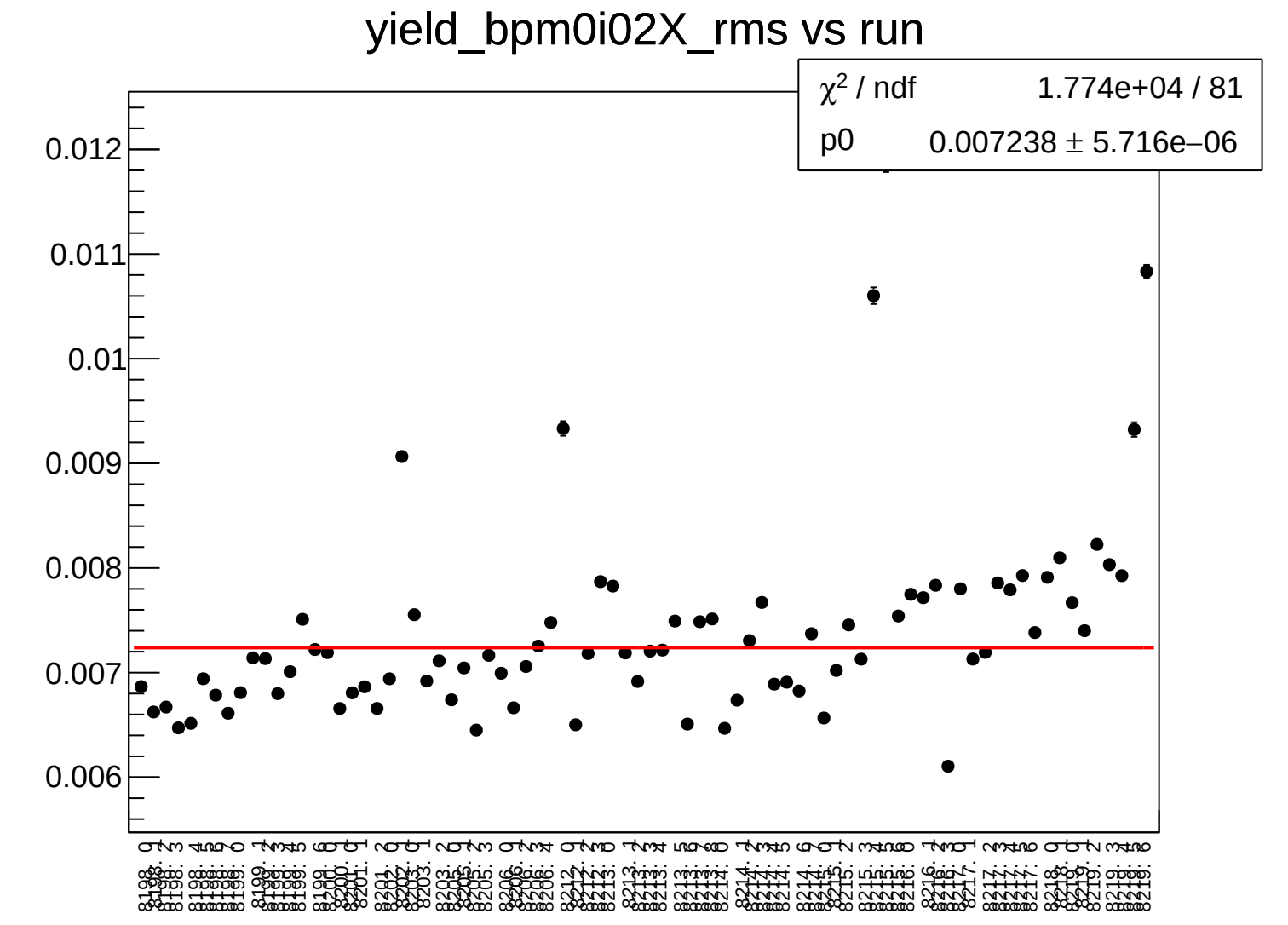

yield_bpm16X_rms vs run
χ² / ndf 4.054e+04 / 81
p0 0.04842 ± 3.852e−05
0.09
0.08
0.07
0.06
0.05
0.04

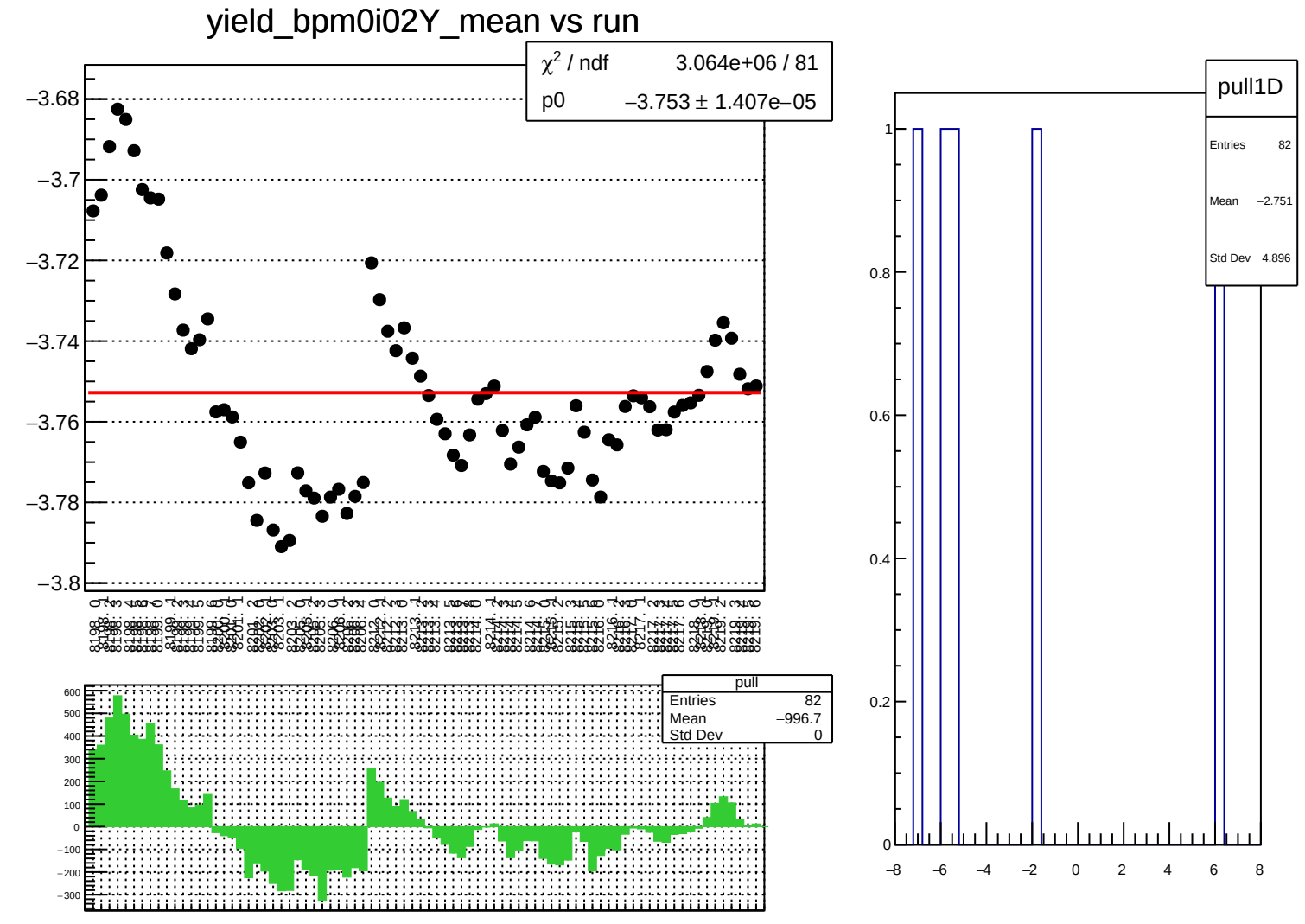

yield_bpm16Y_mean vs run
χ² / ndf 5.076e+07 / 81
p0 −0.3718 ± 1.023e−05
−0.3
−0.35
−0.4
−0.45
−0.5
pull
Entries 82
Mean −358.5
Std Dev 0
1000
500
0
−500
−1000
−1500

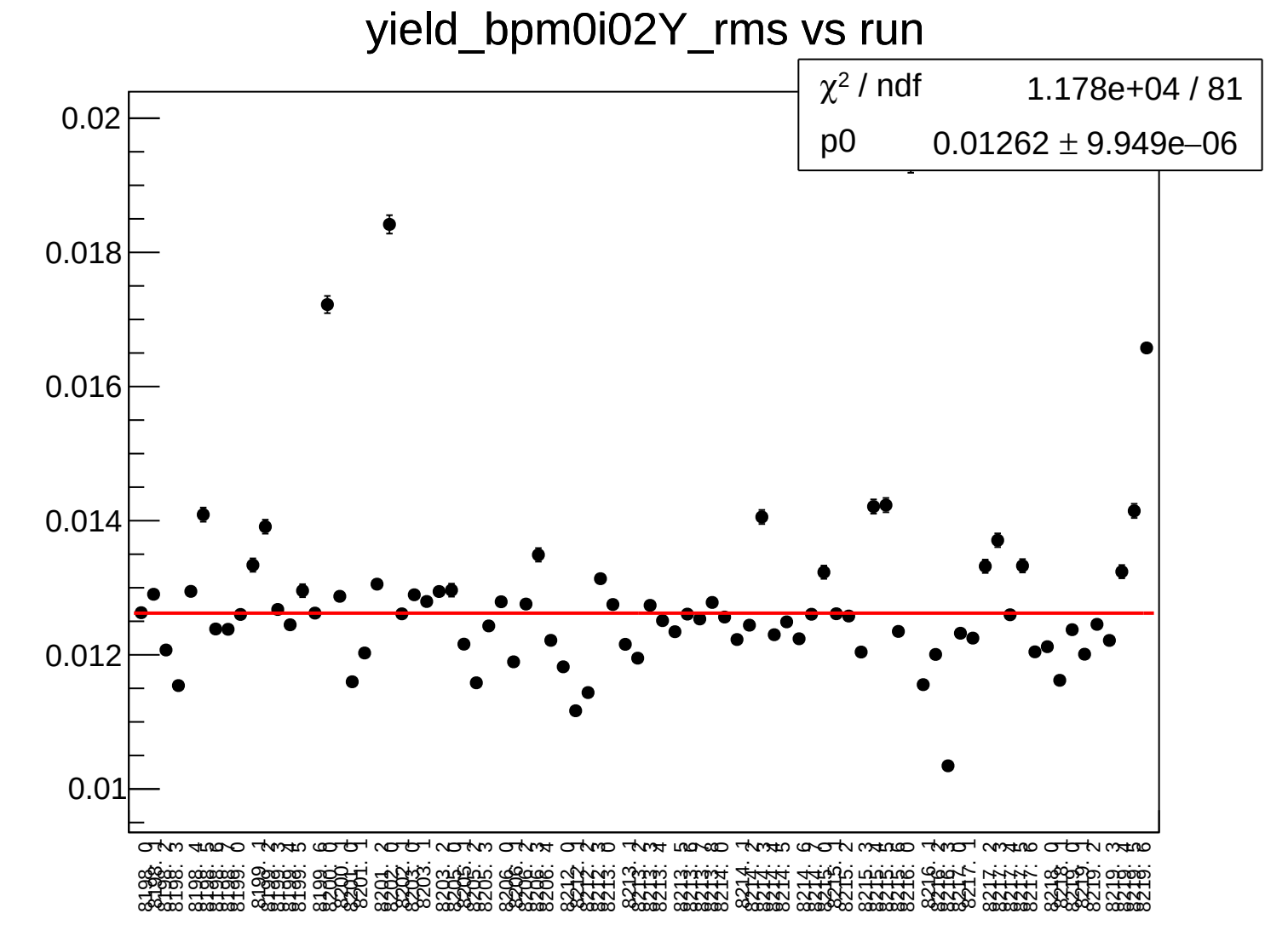

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

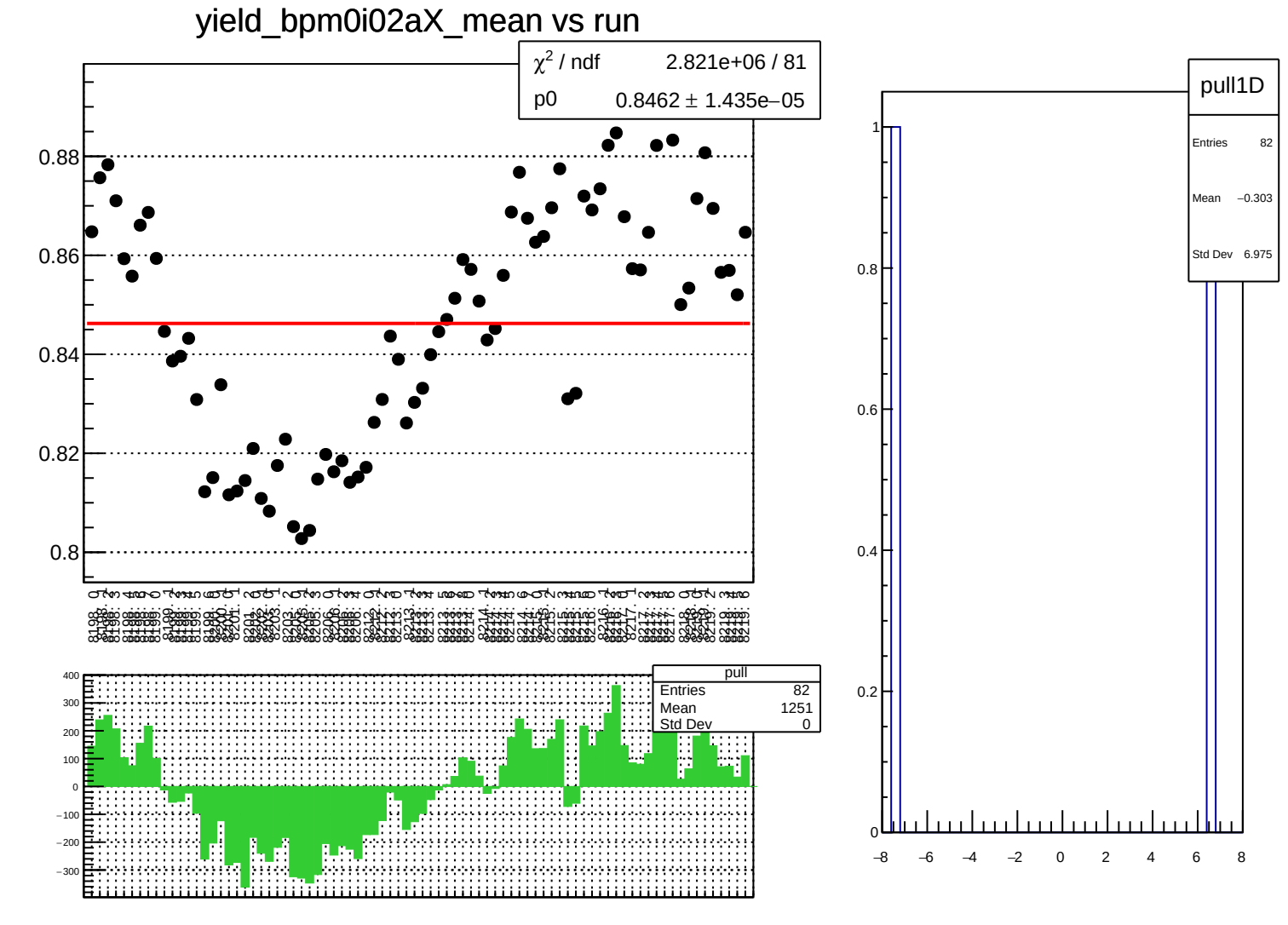

yield_bpm16Y_rms vs run
χ² / ndf 6.589e+04 / 81
p0 0.009026 ± 7.237e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

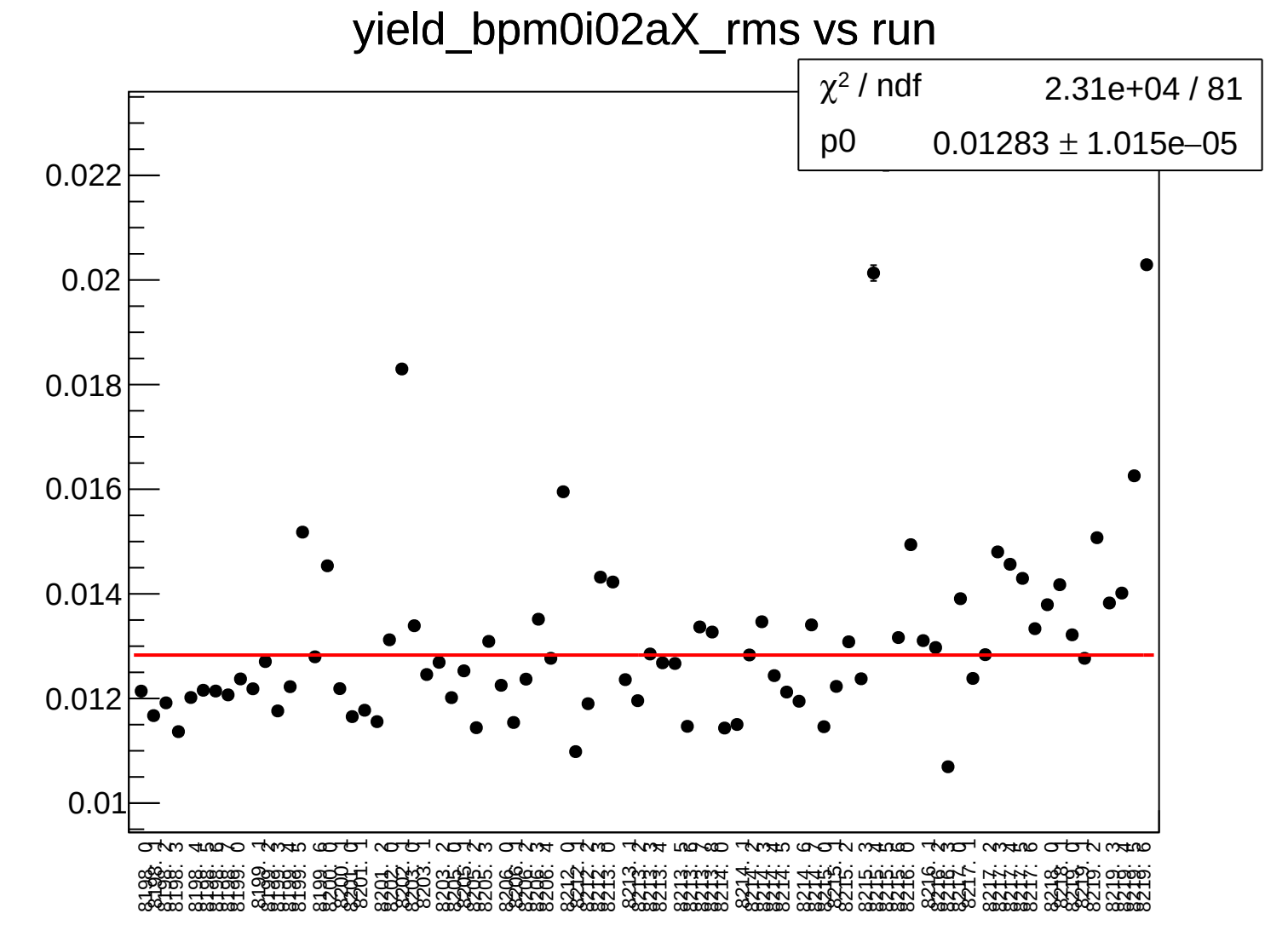

yield_bpm0i02X_mean vs run
χ² / ndf 2.284e+06 / 81
p0 0.5213 ± 8.084e−06
0.55
0.54
0.53
0.52
0.51
0.5
pull
Entries 82
Mean 60.65
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

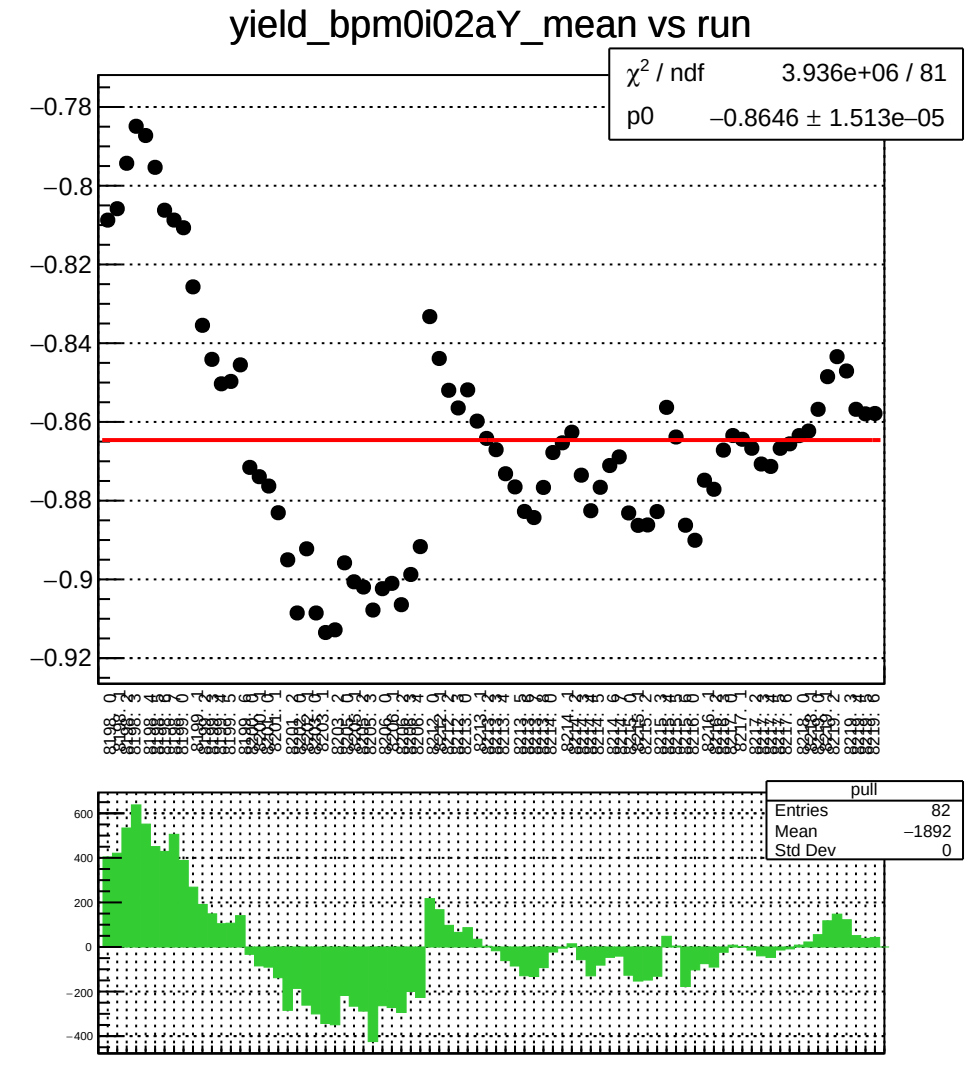

yield_bpm0i02X_rms vs run
χ² / ndf 1.774e+04 / 81
p0 0.007238 ± 5.716e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

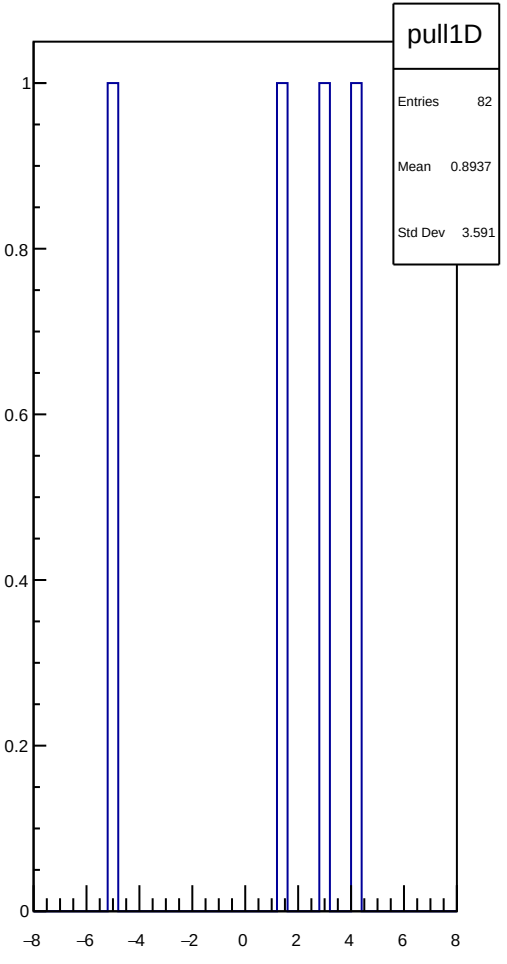

yield_bpm0i02Y_mean vs run
χ² / ndf 3.064e+06 / 81
p0 −3.753 ± 1.407e−05
−3.68
−3.7
−3.72
−3.74
−3.76
−3.78
−3.8
pull
Entries 82
Mean −996.7
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 82
Mean −2.751
Std Dev 4.896
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

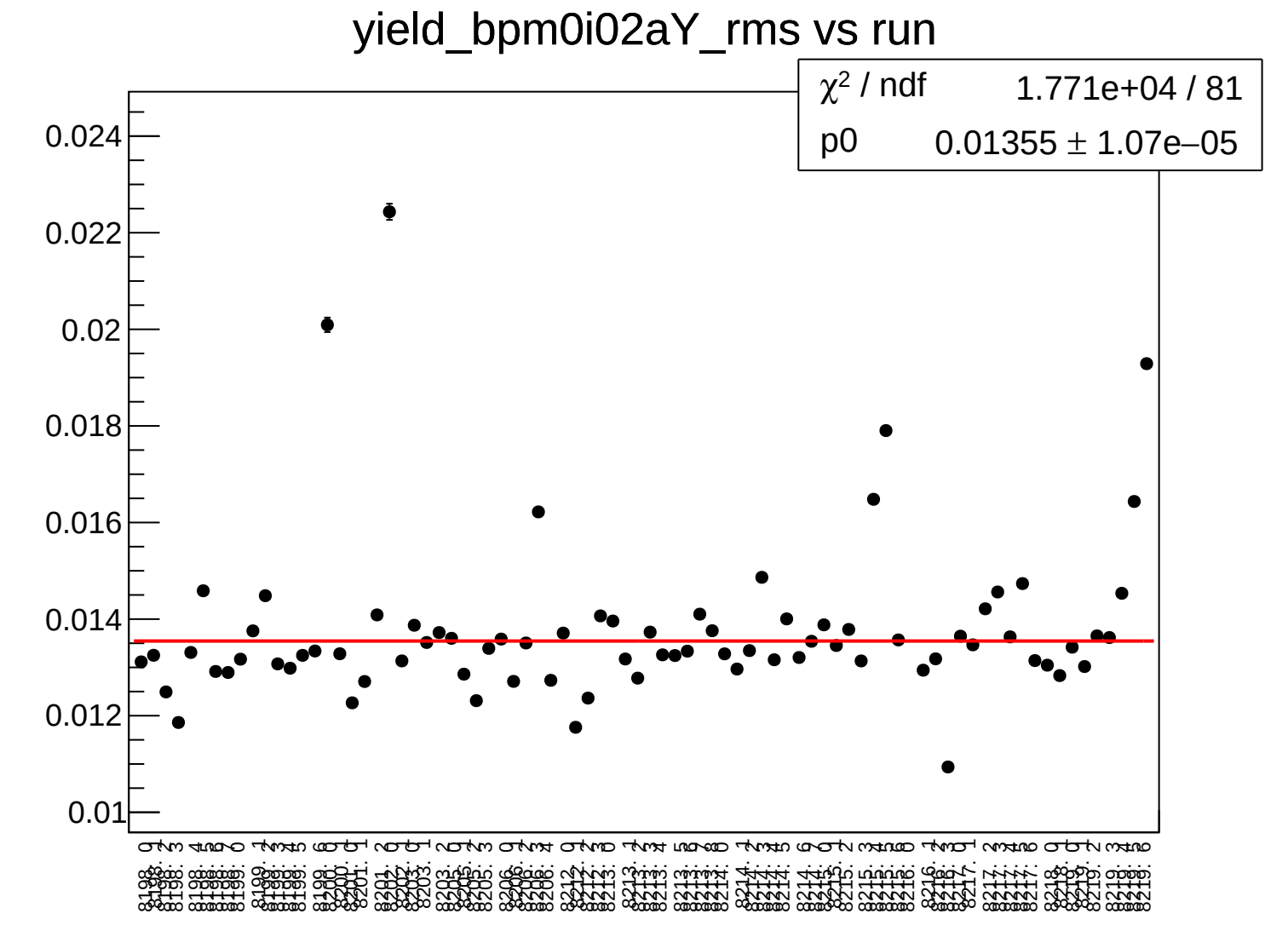

yield_bpm0i02Y_rms vs run
χ² / ndf 1.178e+04 / 81
p0 0.01262 ± 9.949e−06
0.02
0.018
0.016
0.014
0.012
0.01

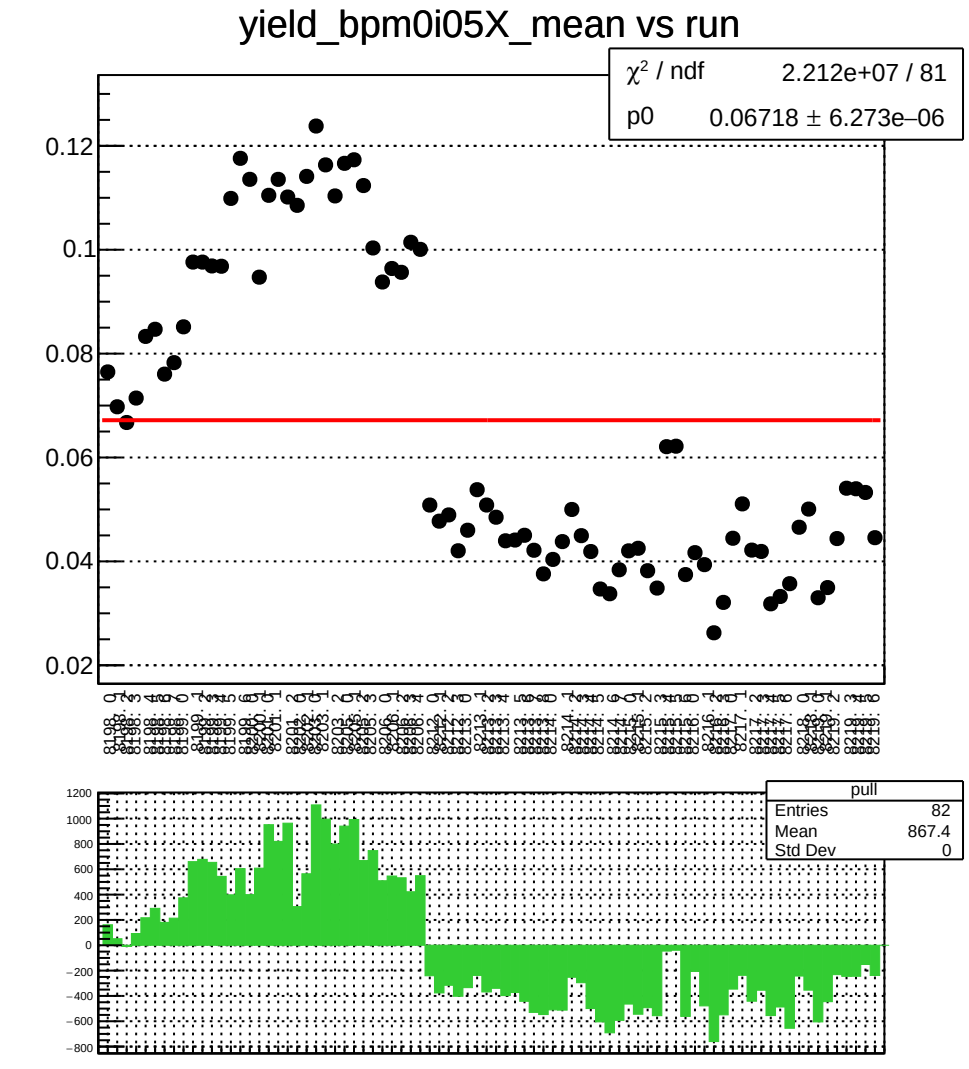

yield_bpm0i02aX_mean vs run
χ² / ndf 2.821e+06 / 81
p0 0.8462 ± 1.435e−05
0.88
0.86
0.84
0.82
0.8
pull
Entries 82
Mean 1251
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 82
Mean −0.303
Std Dev 6.975
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

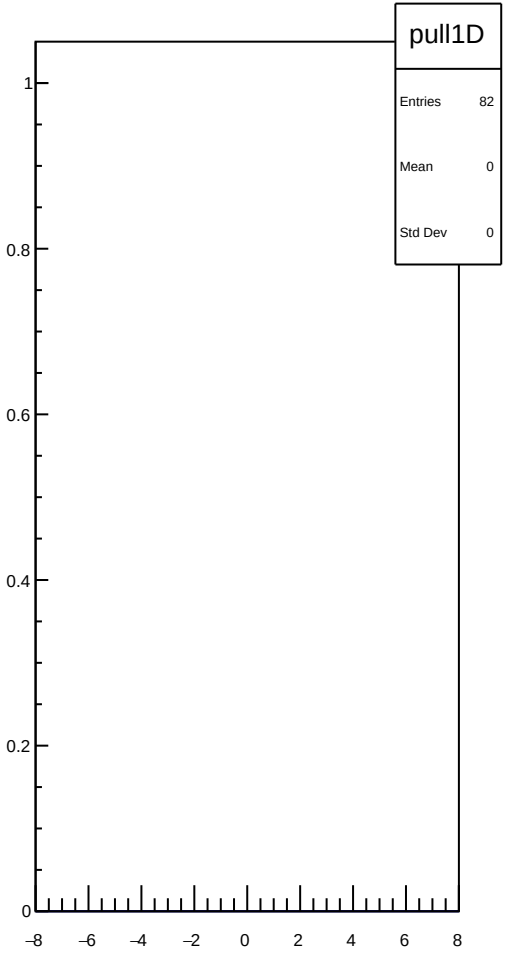

yield_bpm0i02aX_rms vs run
χ² / ndf 2.31e+04 / 81
p0 0.01283 ± 1.015e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

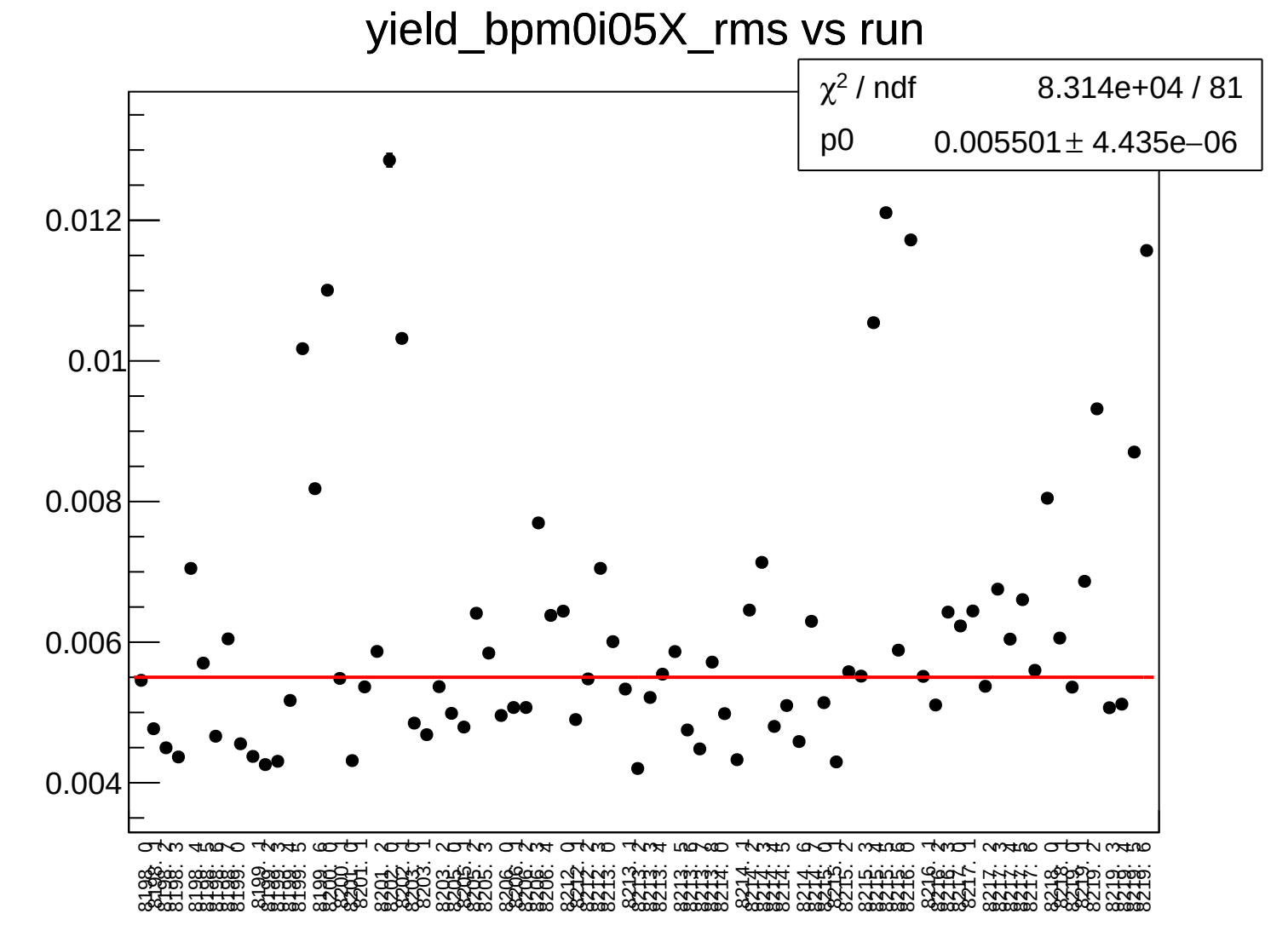

yield_bpm0i02aY_mean vs run
χ² / ndf 3.936e+06 / 81
p0 −0.8646 ± 1.513e−05
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
pull
Entries 82
Mean −1892
Std Dev 0
600
400
200
0
−200
−400

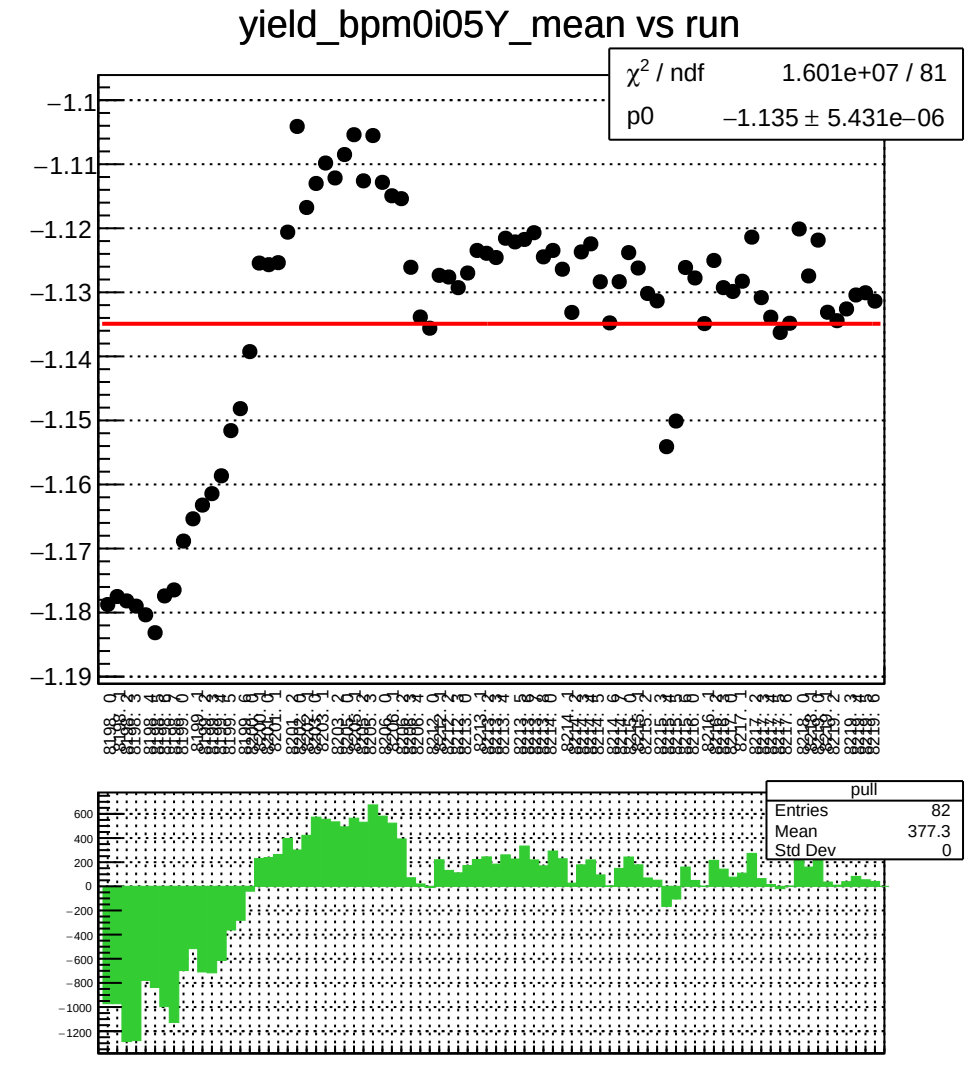

pull1D
Entries 82
Mean 0.8937
Std Dev 3.591
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

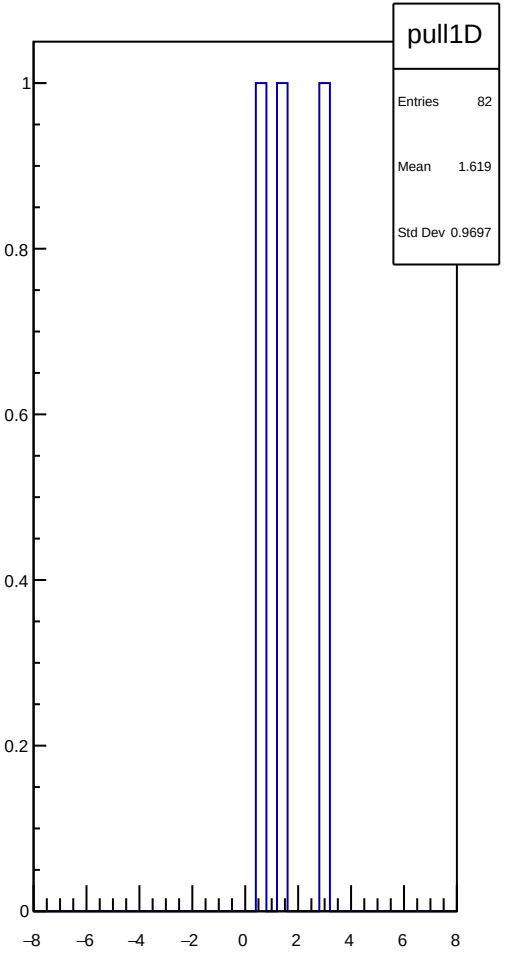

yield_bpm0i02aY_rms vs run
χ² / ndf 1.771e+04 / 81
p0 0.01355 ± 1.07e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

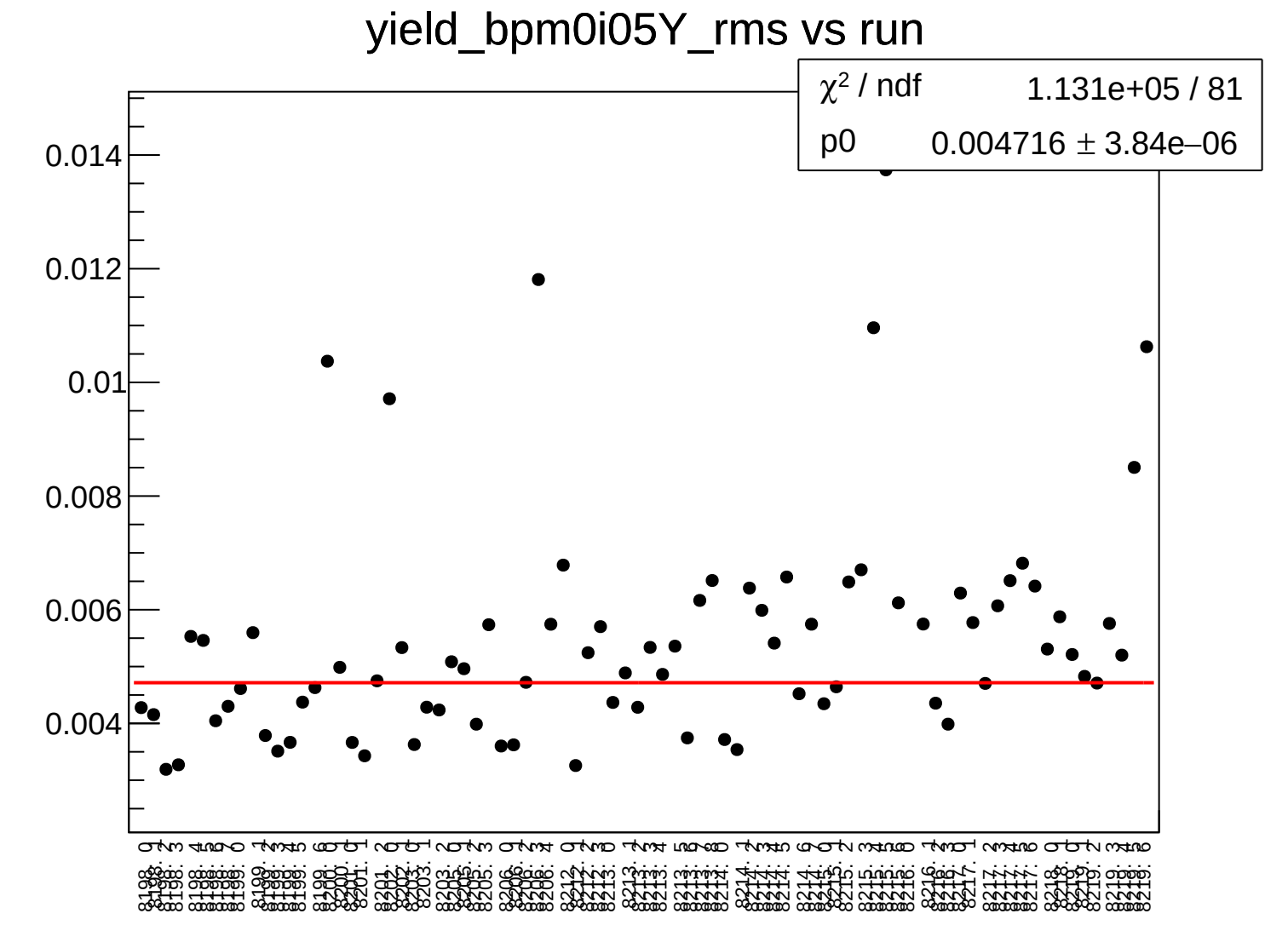

yield_bpm0i05X_mean vs run
χ² / ndf 2.212e+07 / 81
p0 0.06718 ± 6.273e−06
0.12
0.1
0.08
0.06
0.04
0.02
pull
Entries 82
Mean 867.4
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

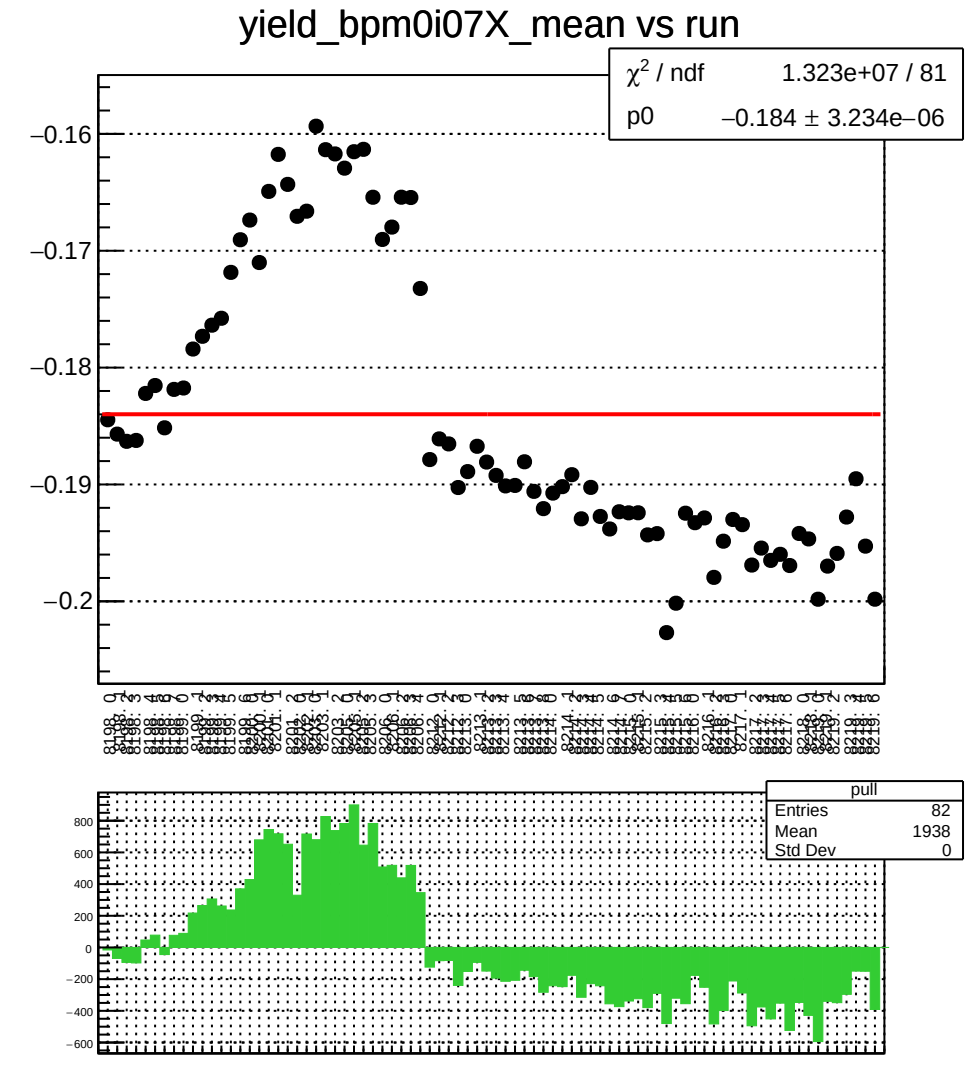

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

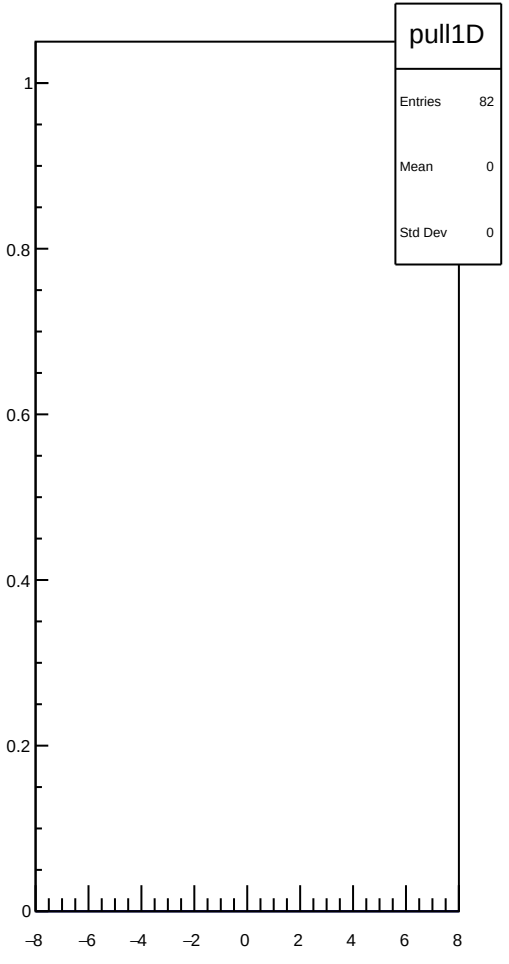

yield_bpm0i05X_rms vs run
$\chi^2$ / ndf 8.314e+04 / 81
p0 0.005501 ± 4.435e−06
0.012
0.01
0.008
0.006
0.004

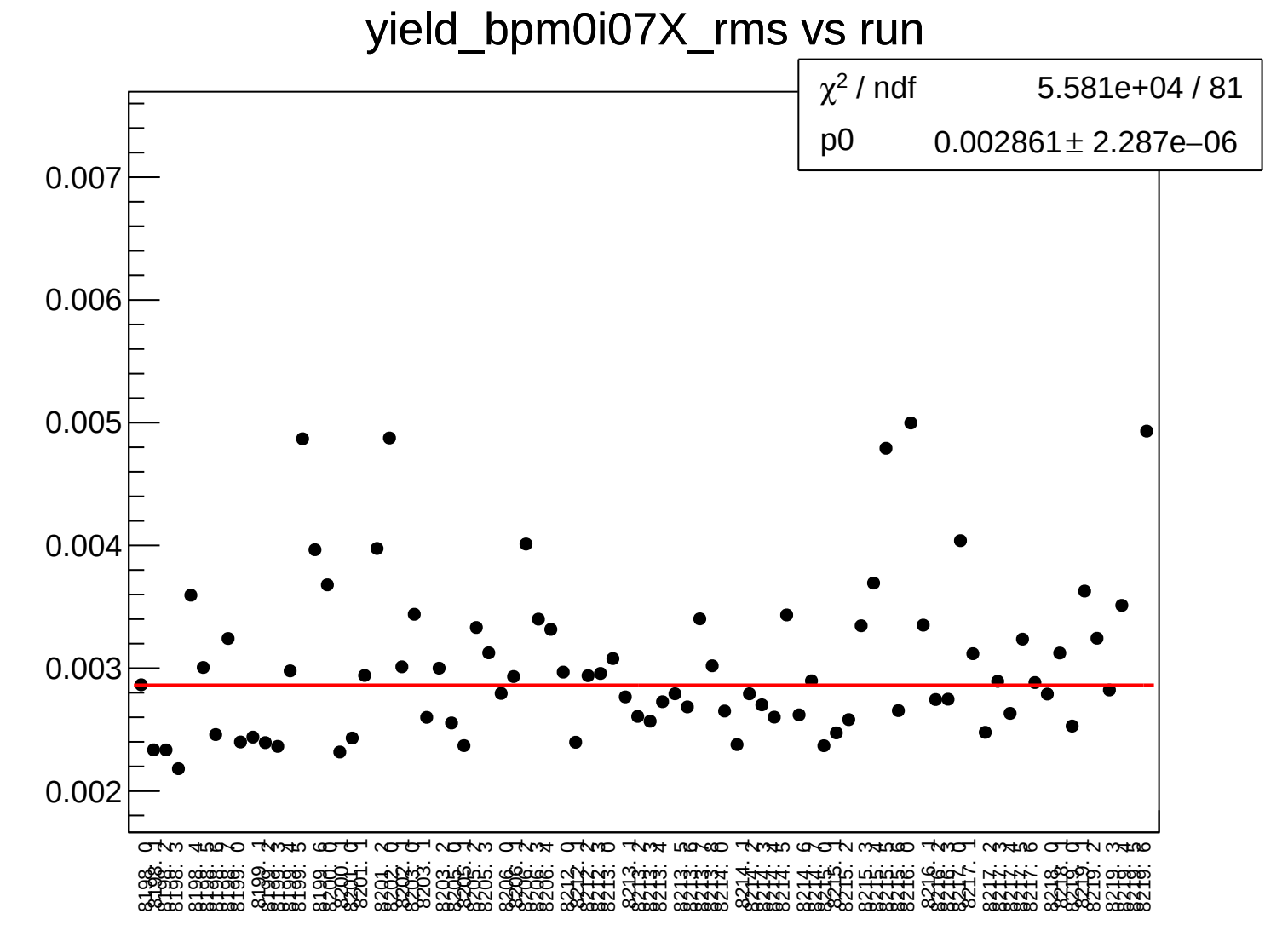

yield_bpm0i05Y_mean vs run
χ² / ndf 1.601e+07 / 81
p0 −1.135 ± 5.431e−06
pull
Entries 82
Mean 377.3
Std Dev 0

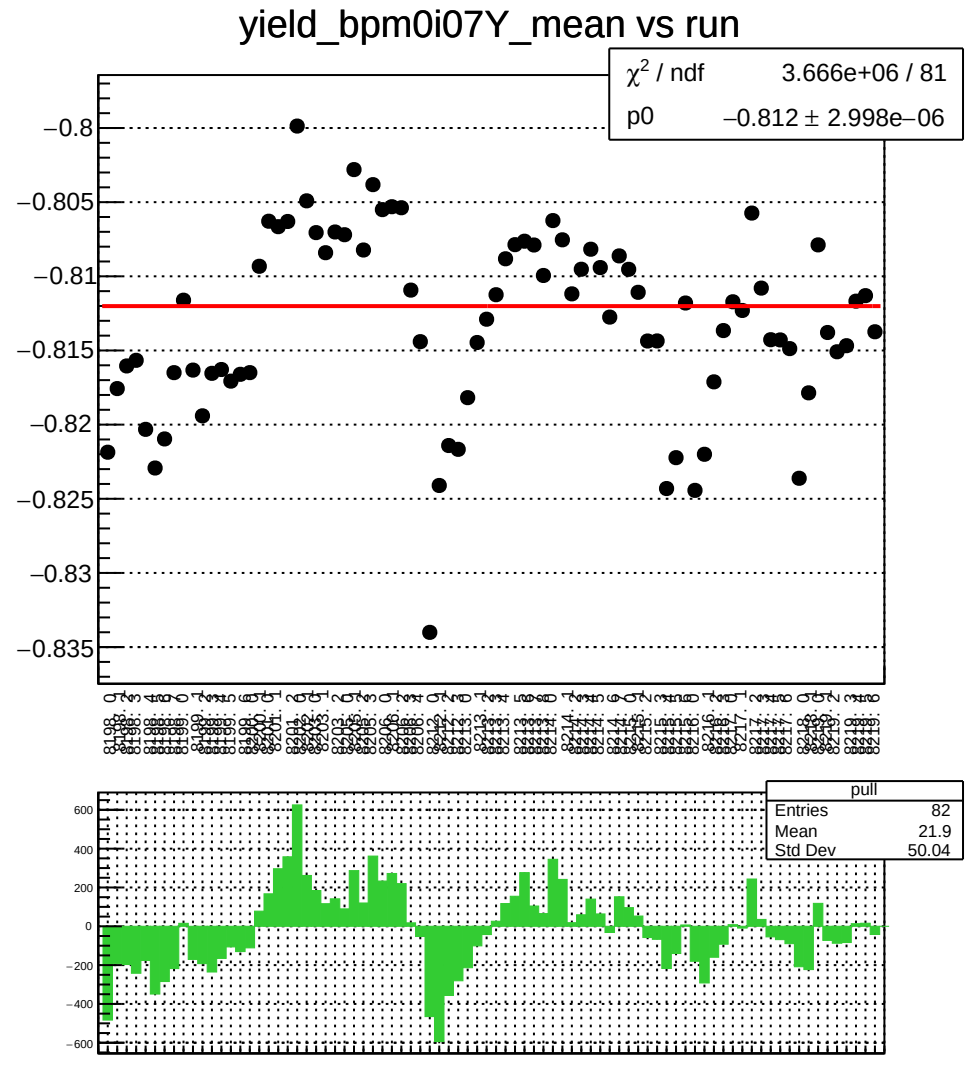

pull1D
Entries 82
Mean 1.619
Std Dev 0.9697

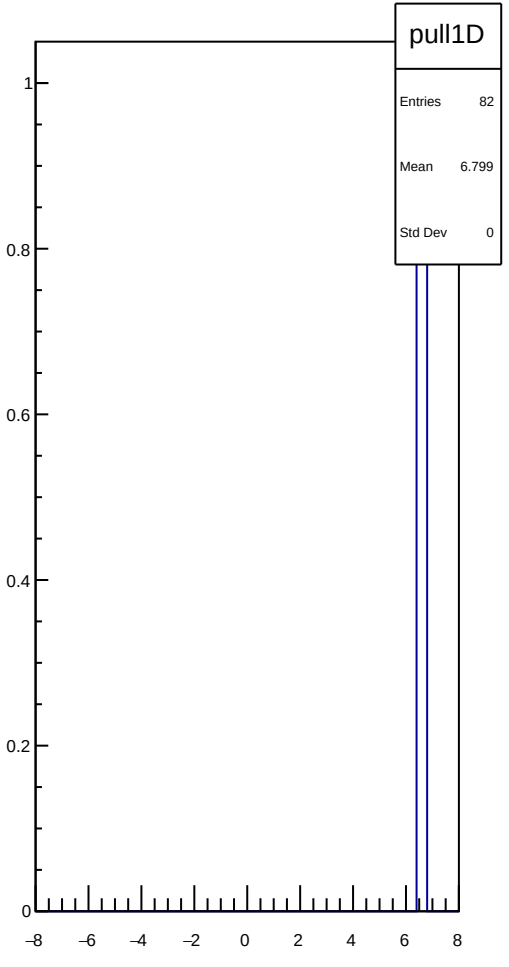

yield_bpm0i05Y_rms vs run
χ² / ndf 1.131e+05 / 81
p0 0.004716 ± 3.84e−06
0.014
0.012
0.01
0.008
0.006
0.004

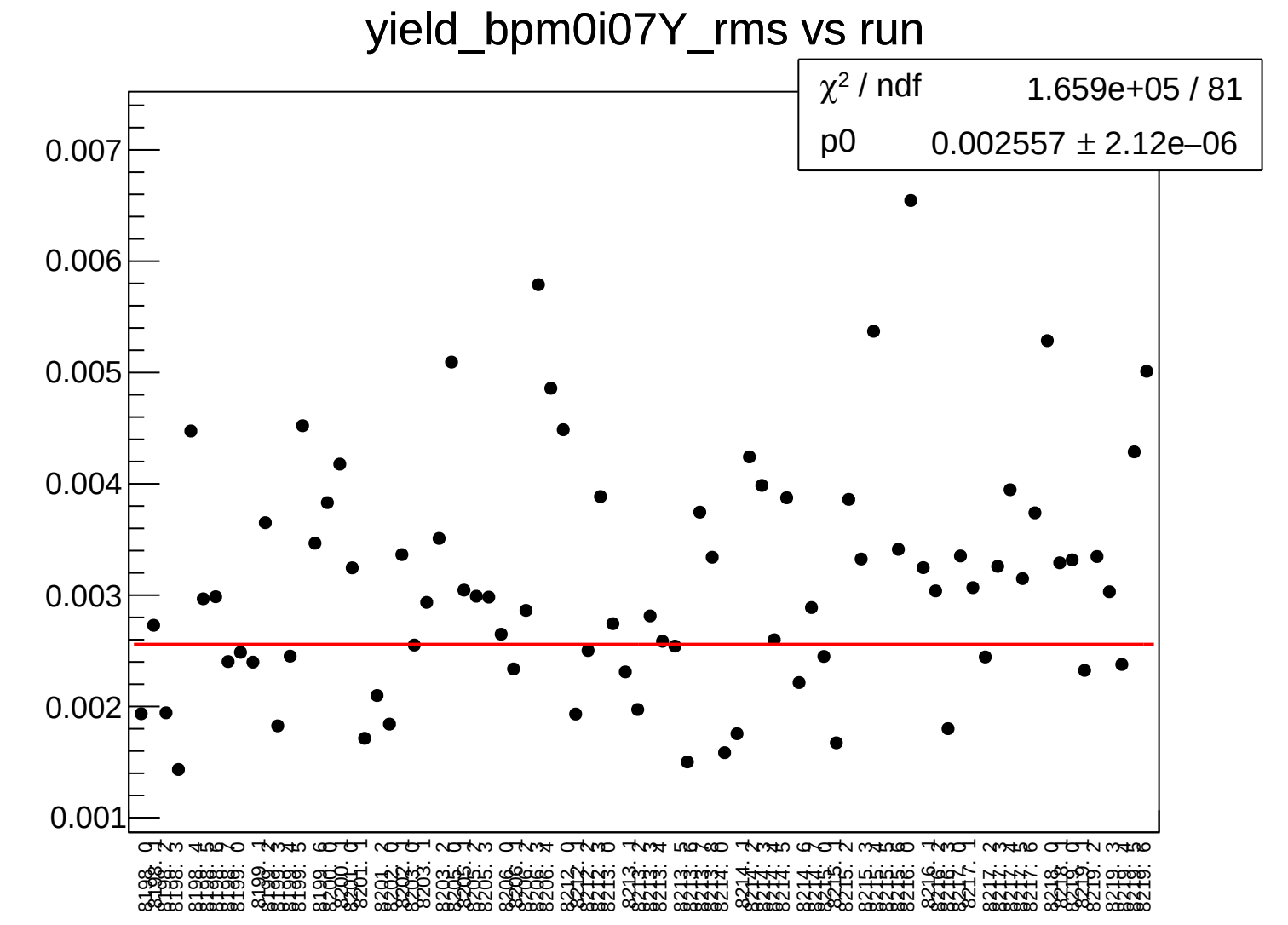

yield_bpm0i07X_mean vs run
χ² / ndf 1.323e+07 / 81
p0 −0.184 ± 3.234e−06
−0.16
−0.17
−0.18
−0.19
−0.2
pull
Entries 82
Mean 1938
Std Dev 0
800
600
400
200
0
−200
−400
−600

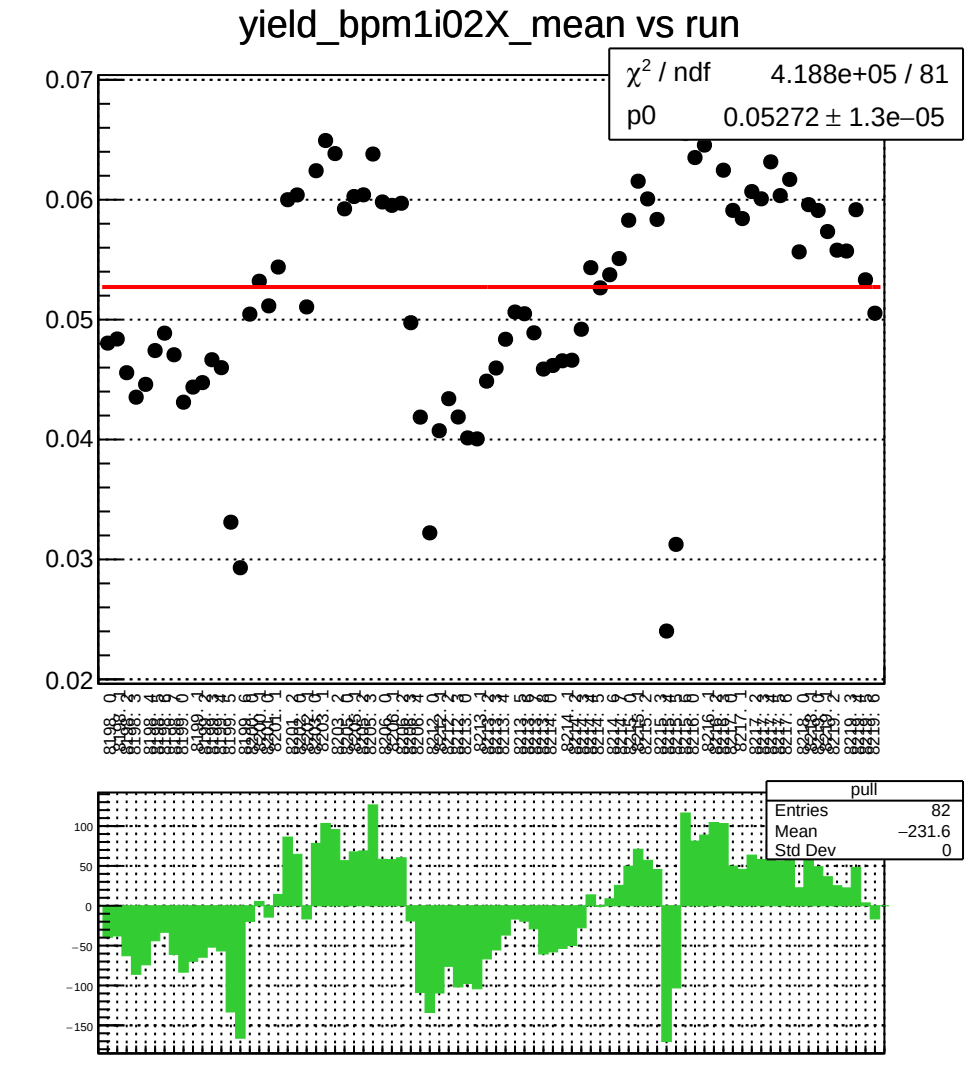

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

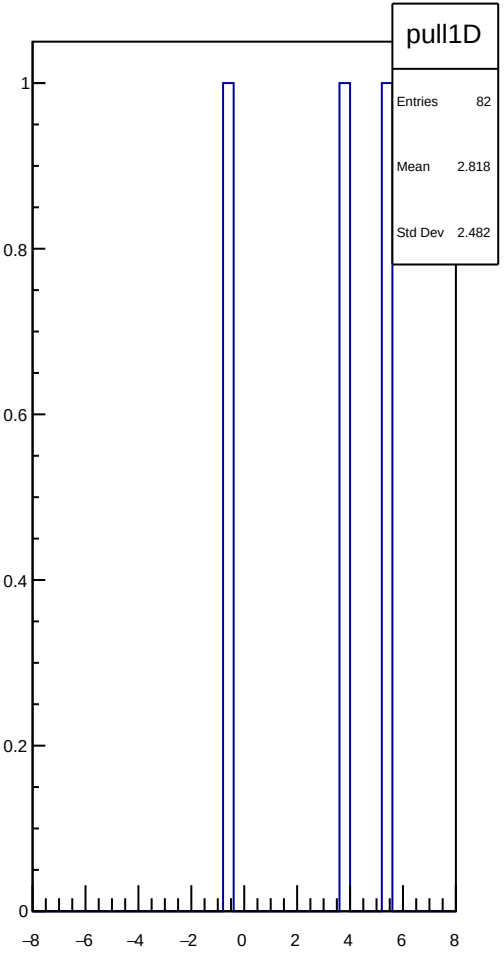

yield_bpm0i07X_rms vs run
$\chi^2$ / ndf 5.581e+04 / 81
p0 0.002861 ± 2.287e−06
0.007
0.006
0.005
0.004
0.003
0.002

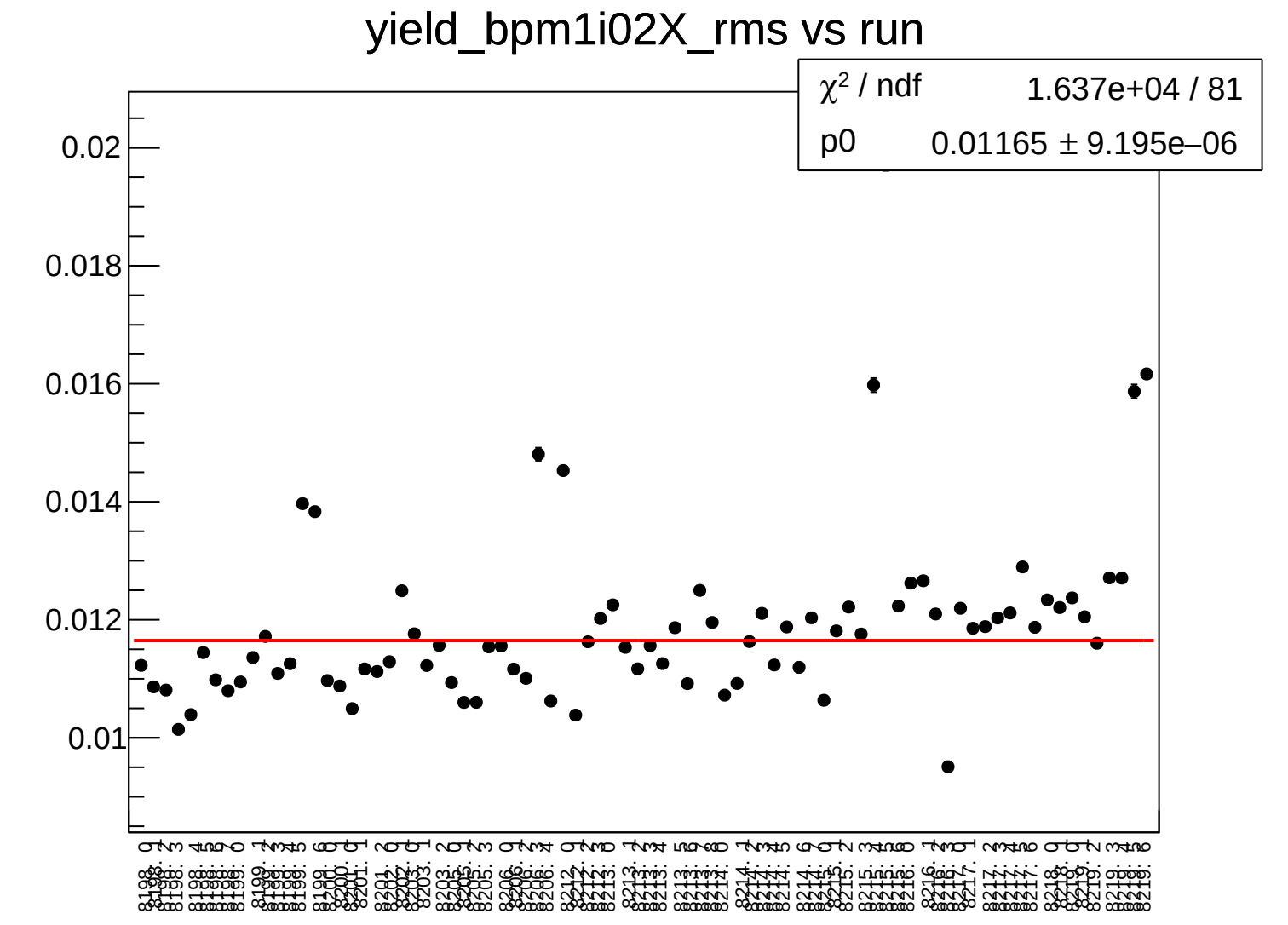

yield_bpm0i07Y_mean vs run
χ² / ndf 3.666e+06 / 81
p0 −0.812 ± 2.998e−06
−0.8
−0.805
−0.81
−0.815
−0.82
−0.825
−0.83
−0.835
pull
Entries 82
Mean 21.9
Std Dev 50.04
600
400
200
0
−200
−400
−600

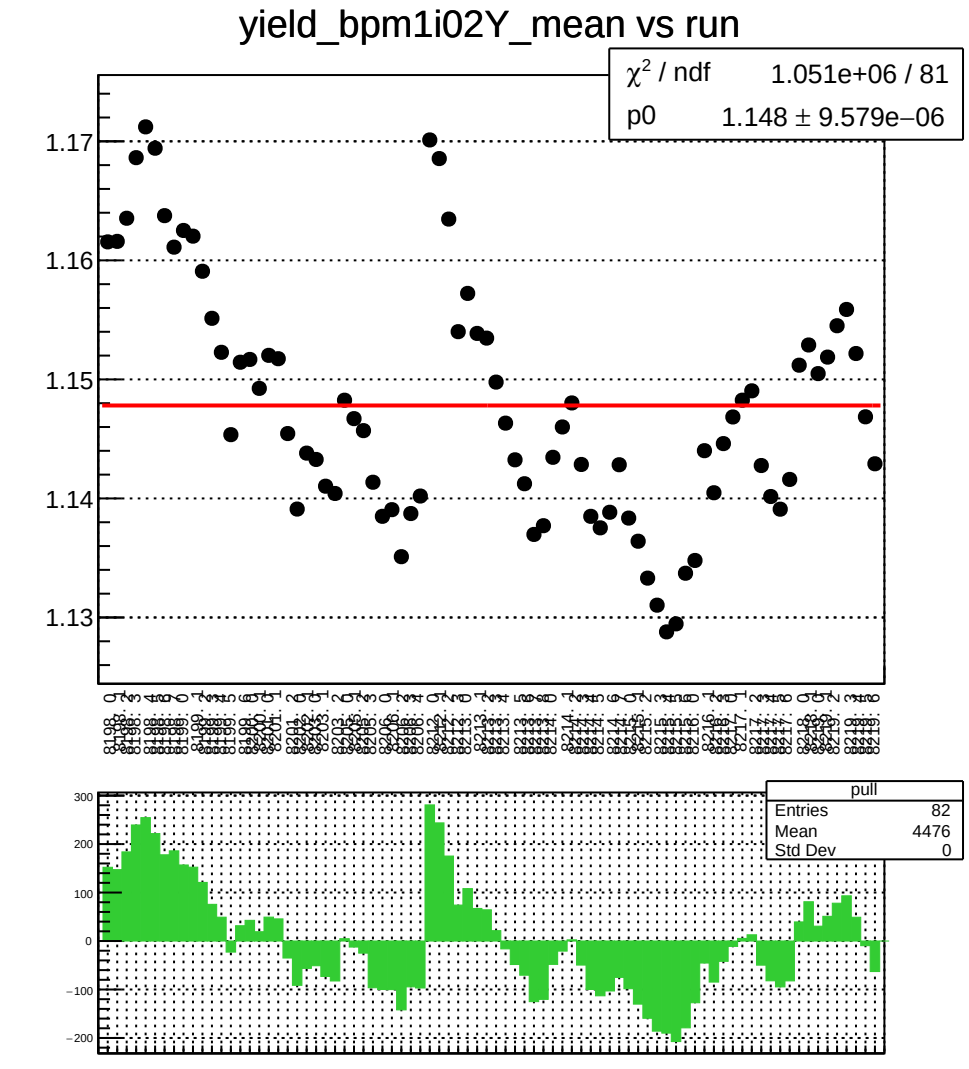

pull1D
Entries 82
Mean 6.799
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

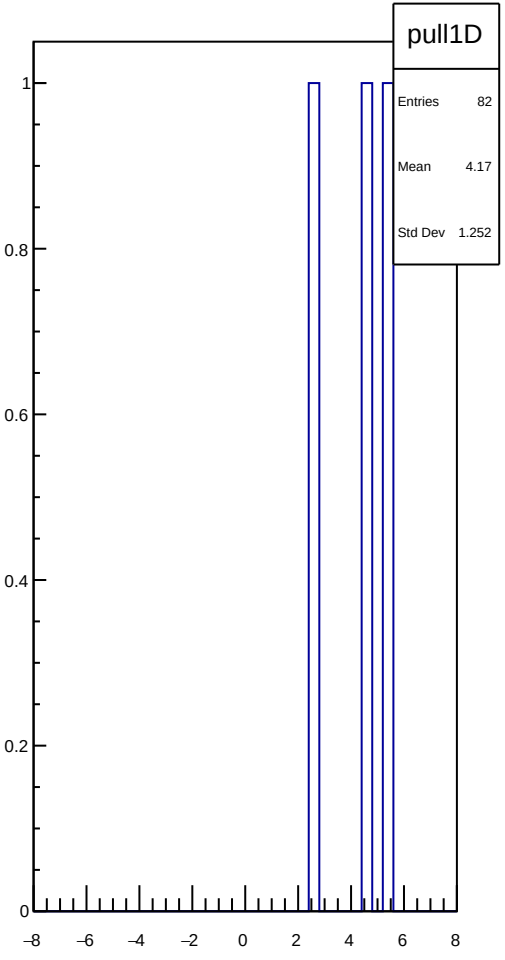

yield_bpm0i07Y_rms vs run
χ² / ndf 1.659e+05 / 81
p0 0.002557 ± 2.12e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

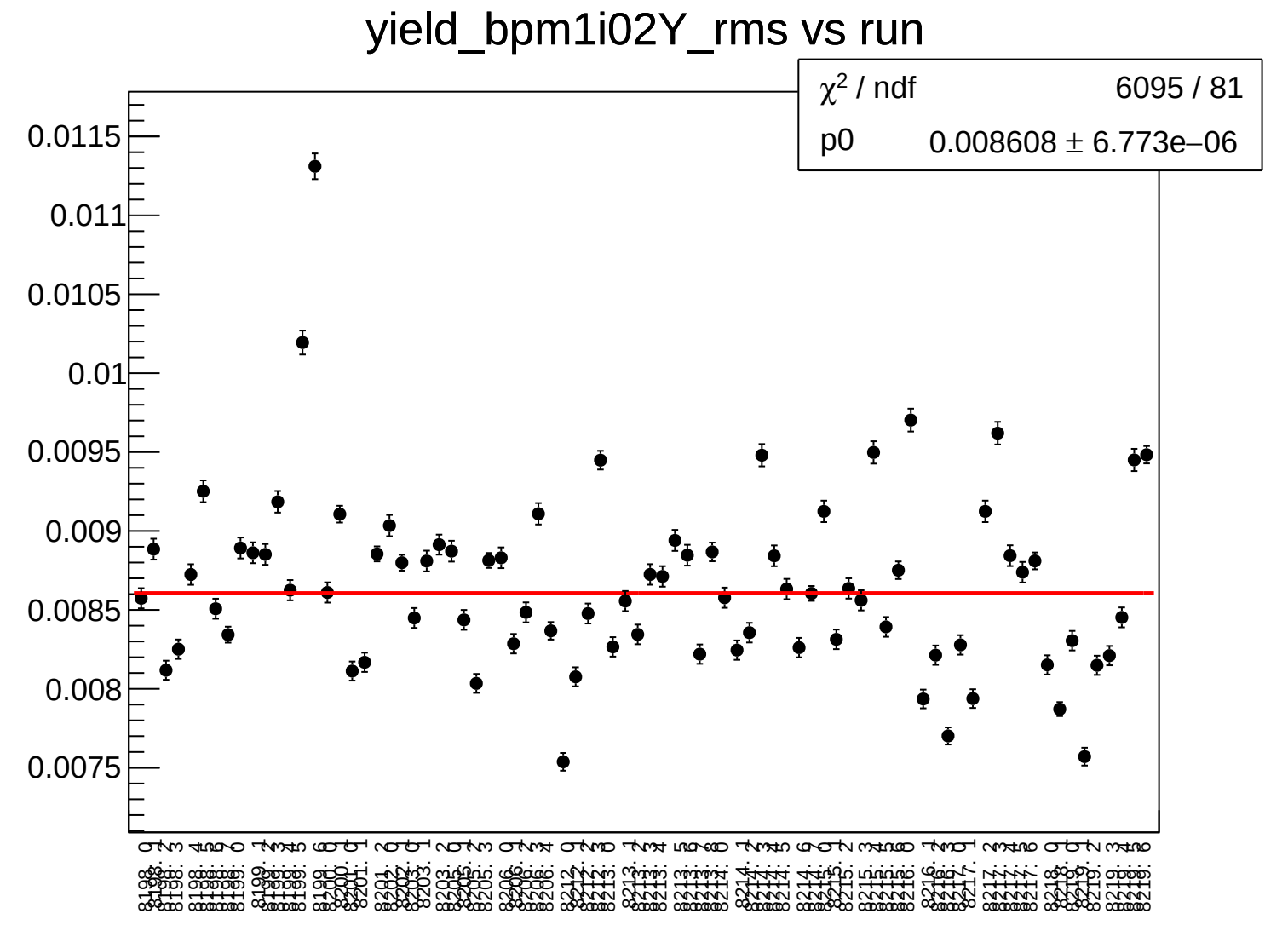

yield_bpm1i02X_mean vs run
χ² / ndf 4.188e+05 / 81
p0 0.05272 ± 1.3e−05
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 82
Mean −231.6
Std Dev 0
100
50
0
−50
−100
−150

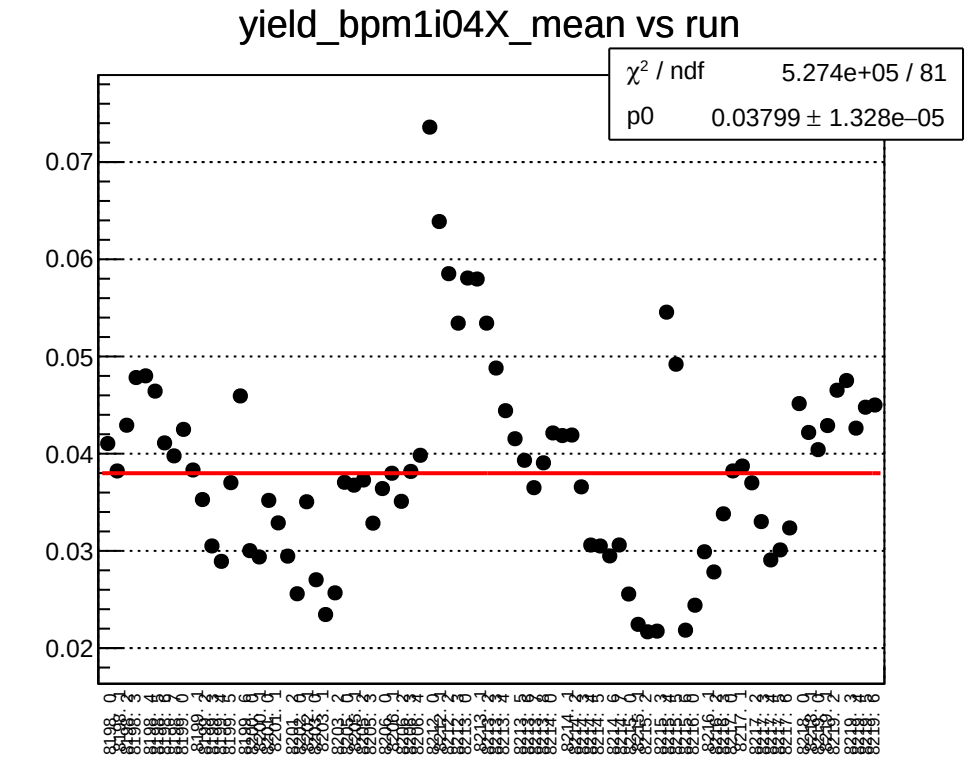

pull1D
Entries 82
Mean 2.818
Std Dev 2.482
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

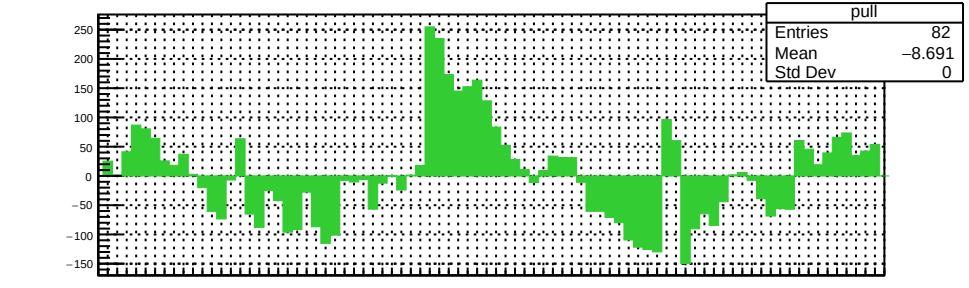

yield_bpm1i02X_rms vs run
χ² / ndf 1.637e+04 / 81
p0 0.01165 ± 9.195e–06
0.02
0.018
0.016
0.014
0.012
0.01

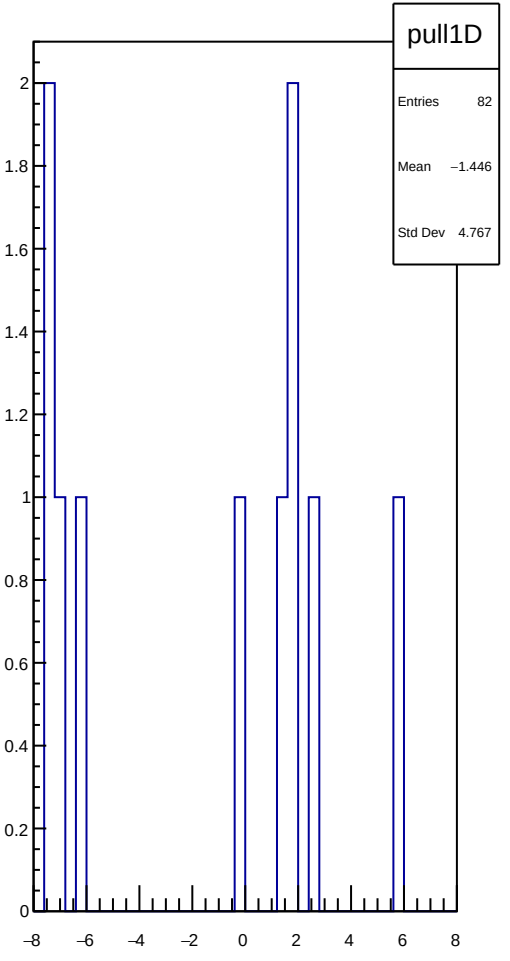

yield_bpm1i02Y_mean vs run
χ² / ndf 1.051e+06 / 81
p0 1.148 ± 9.579e−06
1.17
1.16
1.15
1.14
1.13
pull
Entries 82
Mean 4476
Std Dev 0
300
200
100
0
−100
−200

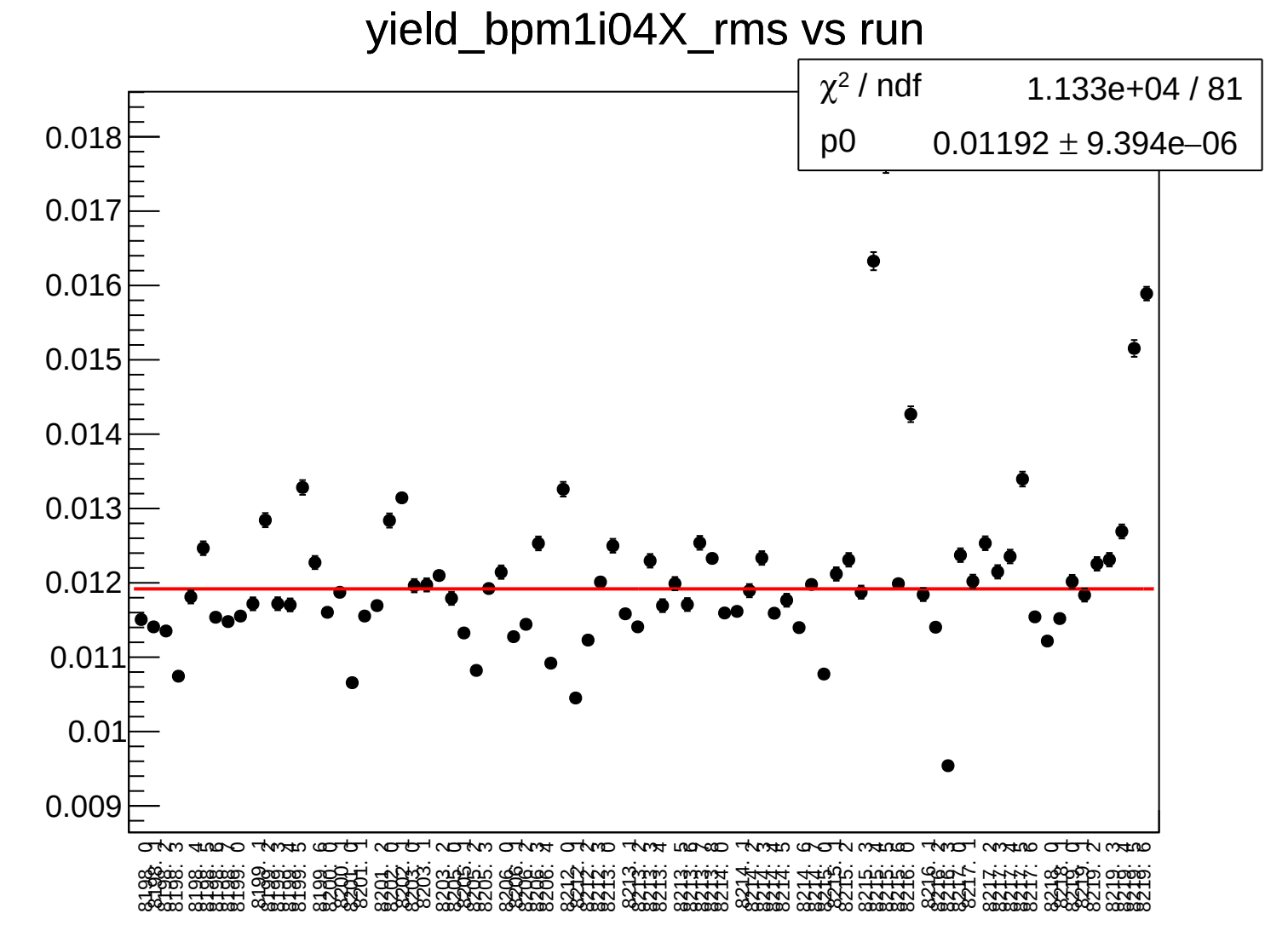

pull1D
Entries 82
Mean 4.17
Std Dev 1.252
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

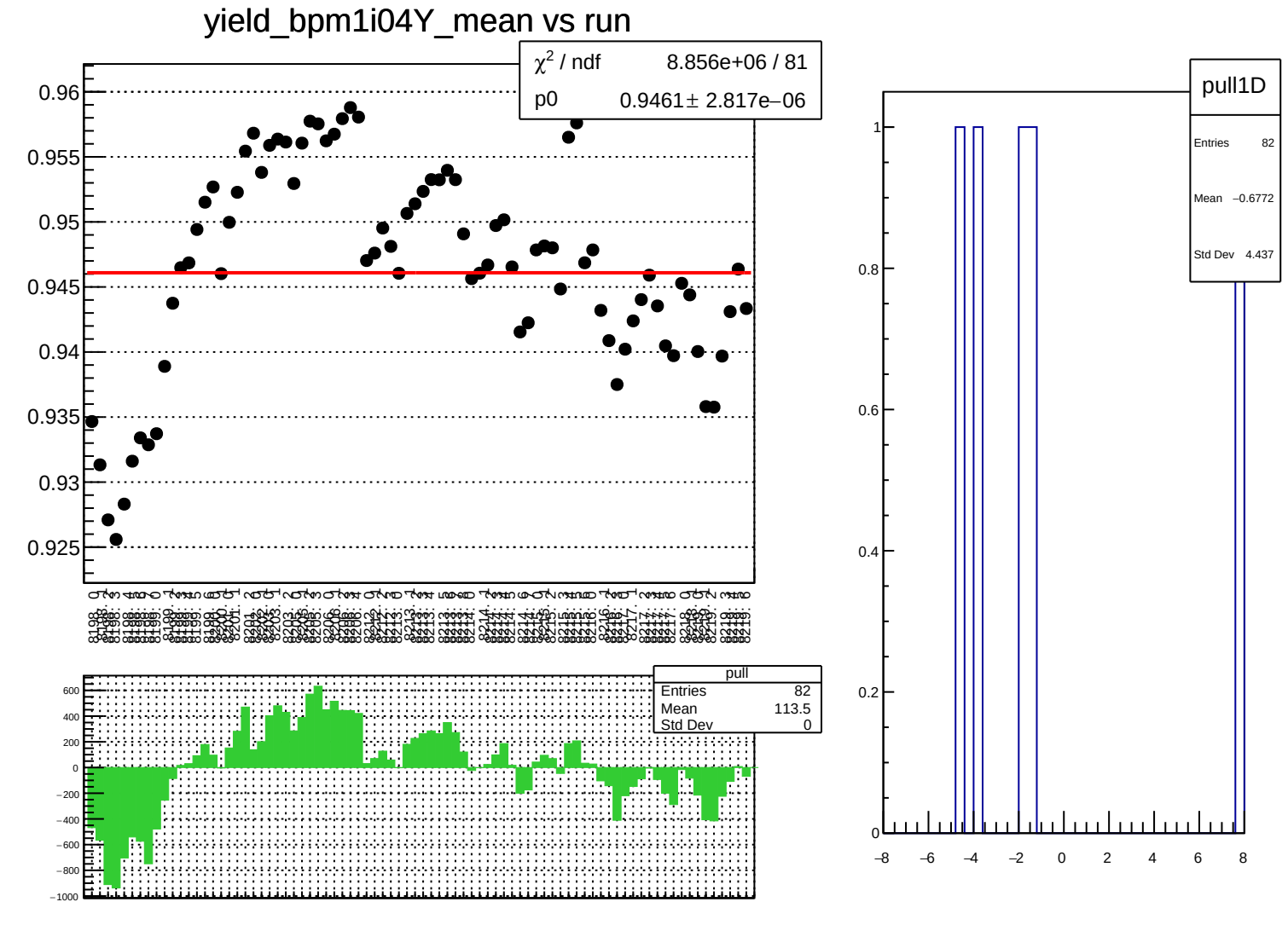

yield_bpm1i02Y_rms vs run
χ² / ndf 6095 / 81
p0 0.008608 ± 6.773e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

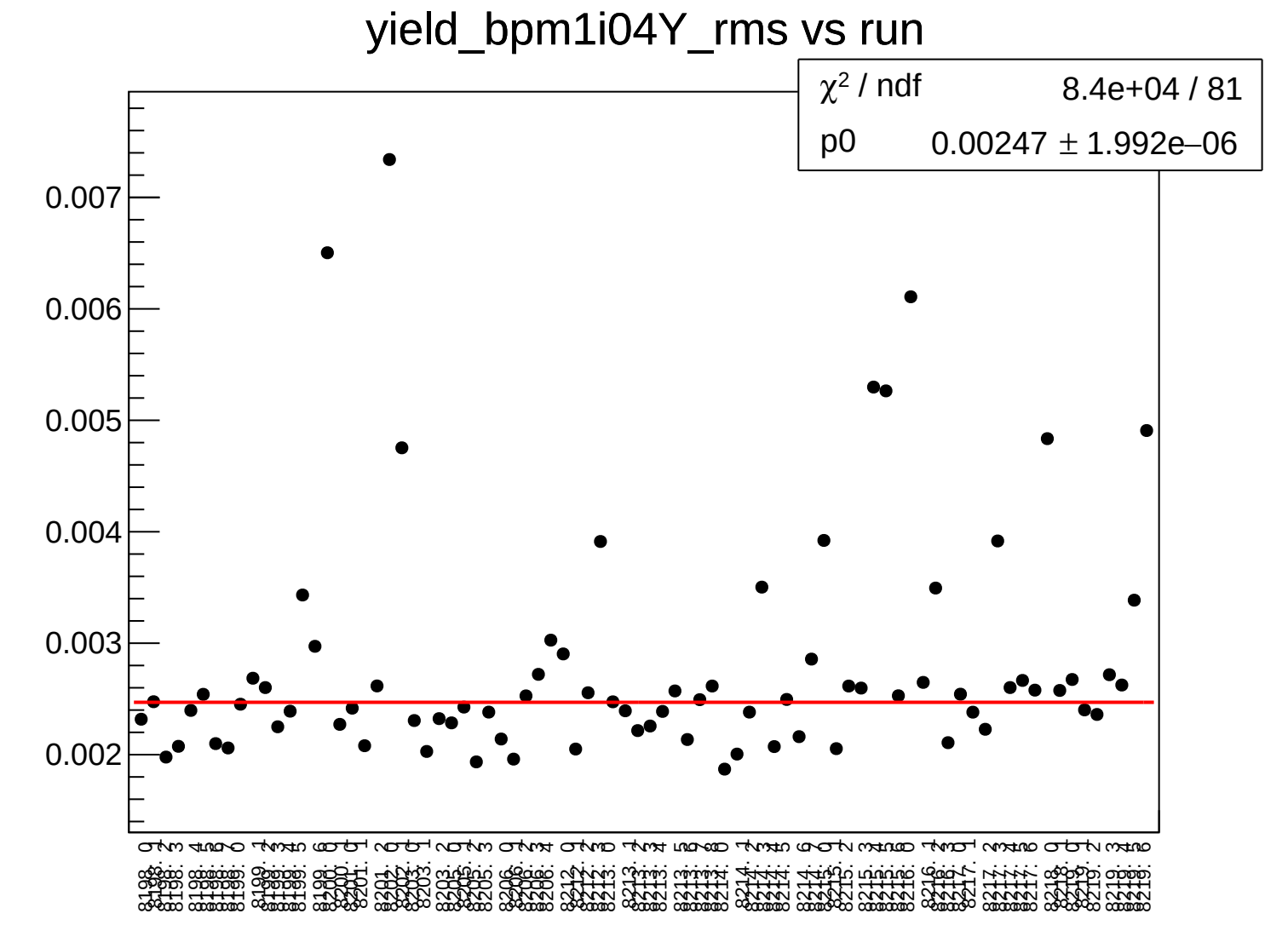

yield_bpm1i04X_mean vs run
χ² / ndf 5.274e+05 / 81
p0 0.03799 ± 1.328e−05
0.07
0.06
0.05
0.04
0.03
0.02

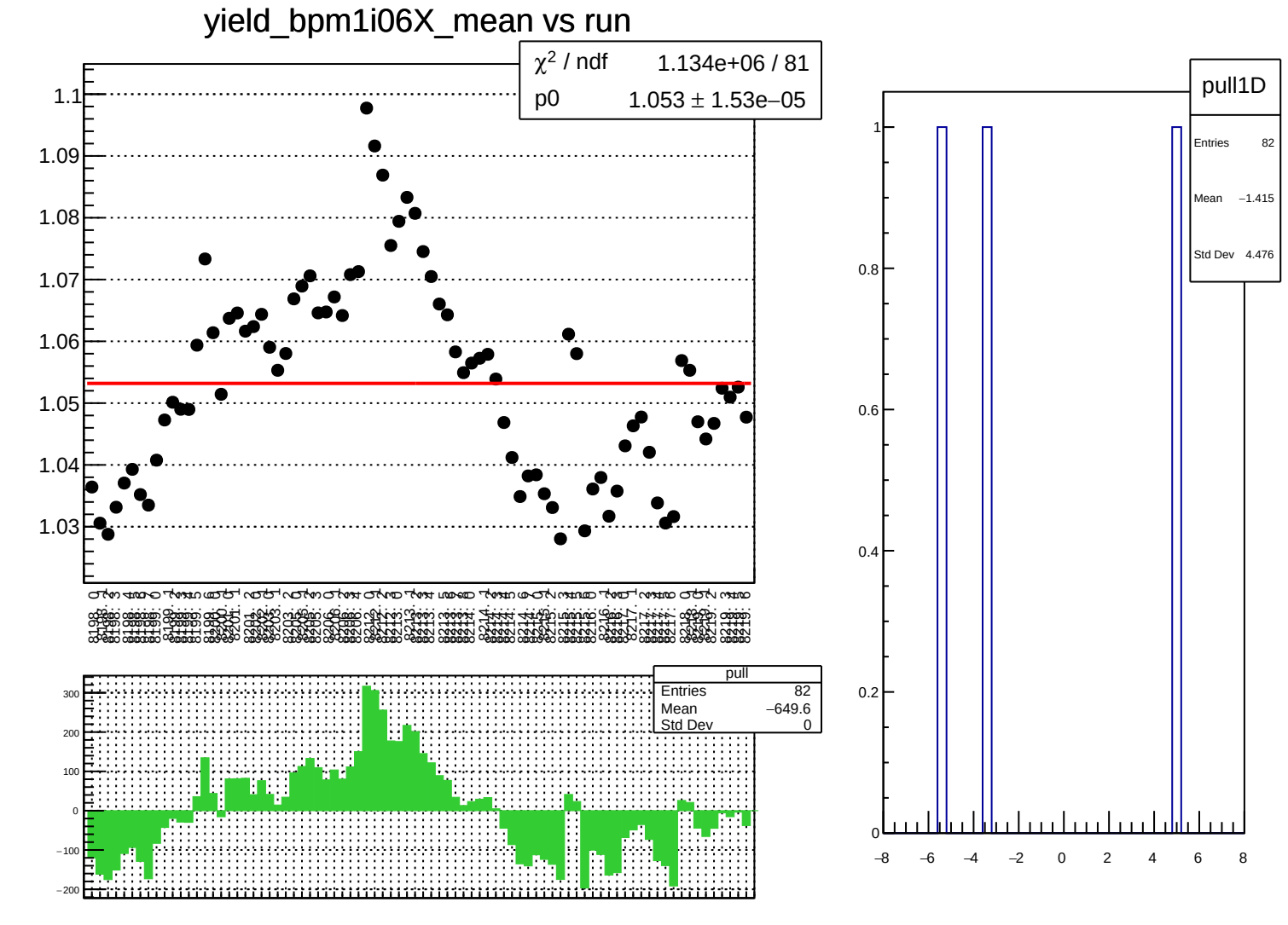

pull
Entries 82
Mean −8.691
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

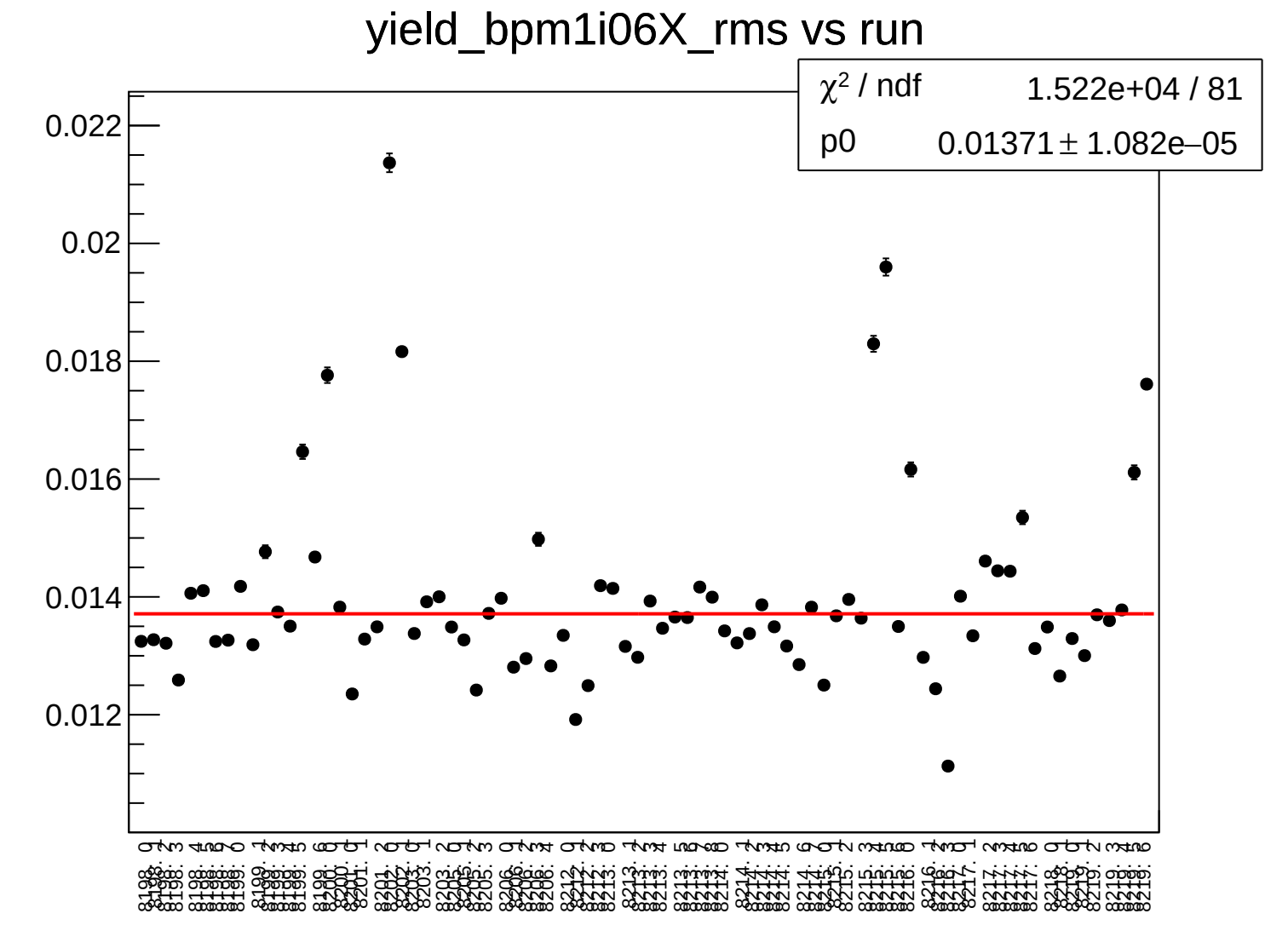

pull1D
Entries 82
Mean −1.446
Std Dev 4.767
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

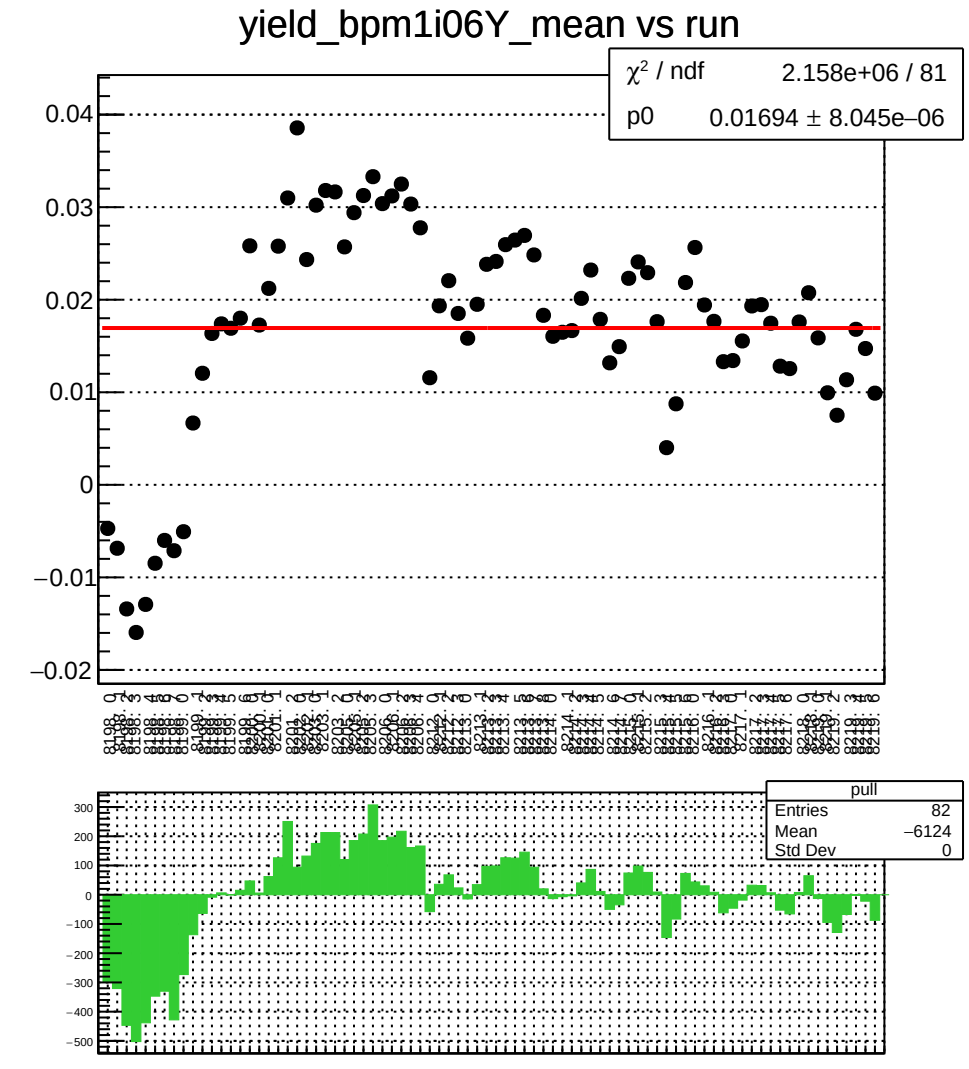

yield_bpm1i04X_rms vs run
χ² / ndf 1.133e+04 / 81
p0 0.01192 ± 9.394e–06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

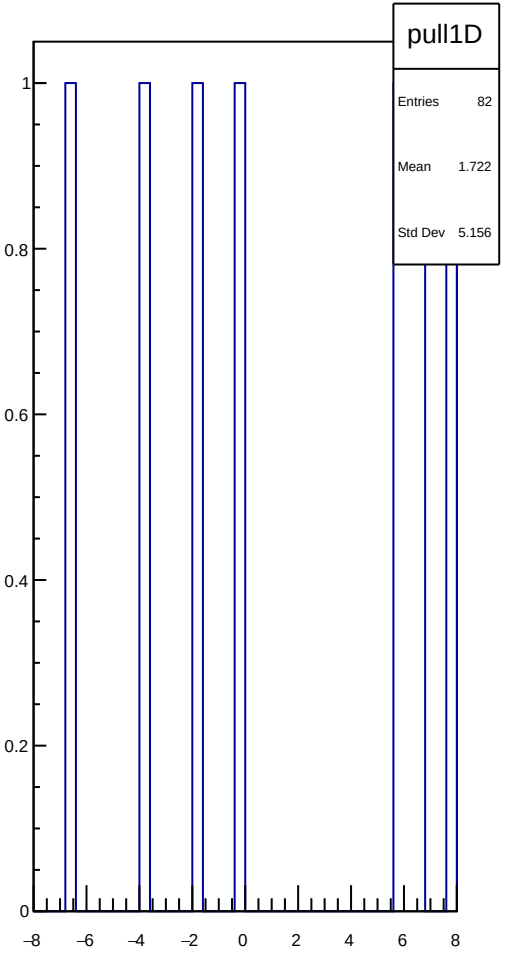

yield_bpm1i04Y_mean vs run
χ² / ndf 8.856e+06 / 81
p0 0.9461 ± 2.817e−06
0.96
0.955
0.95
0.945
0.94
0.935
0.93
0.925
pull
Entries 82
Mean 113.5
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 82
Mean −0.6772
Std Dev 4.437
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

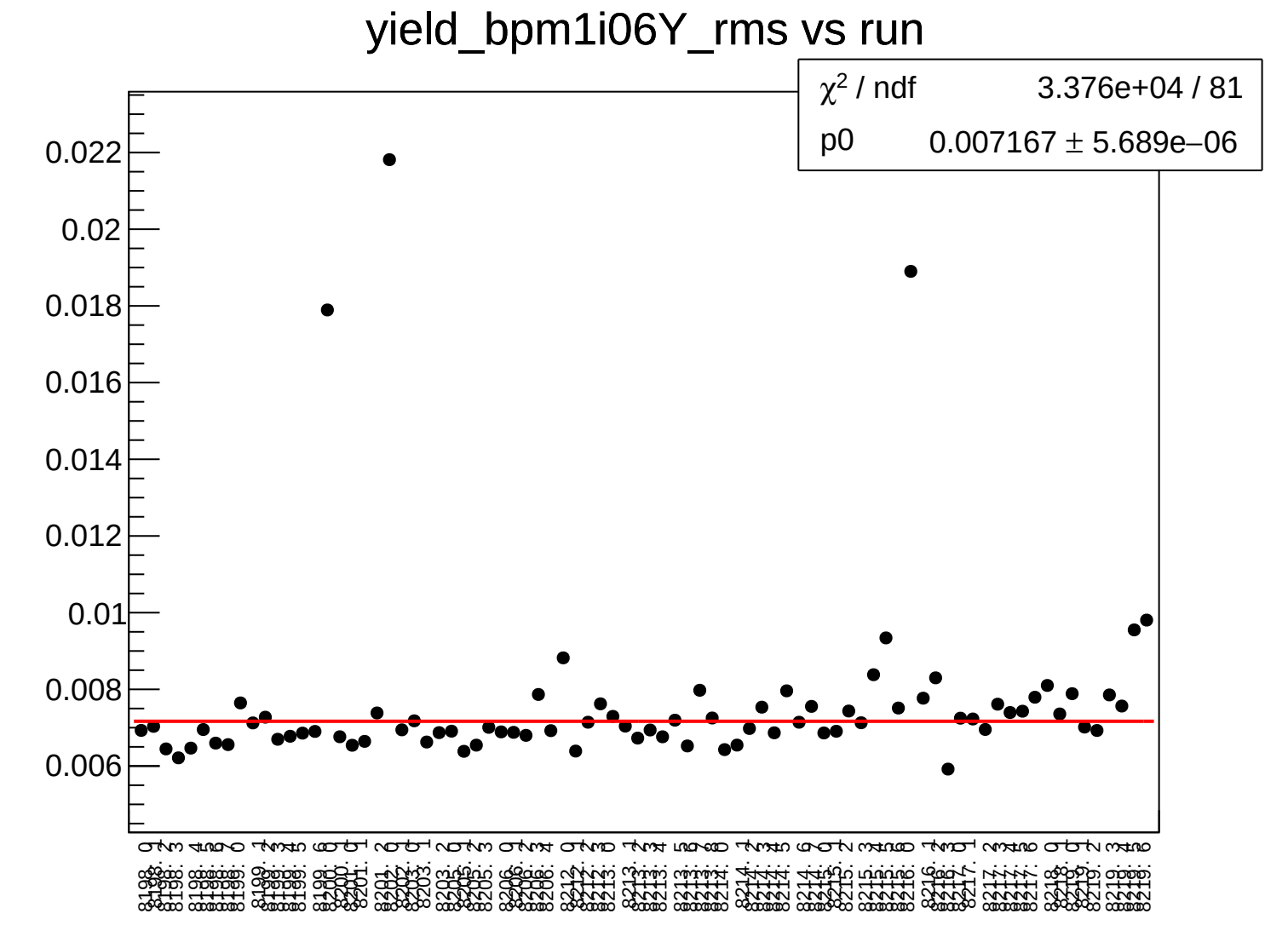

yield_bpm1i04Y_rms vs run
χ² / ndf 8.4e+04 / 81
p0 0.00247 ± 1.992e−06
0.007
0.006
0.005
0.004
0.003
0.002

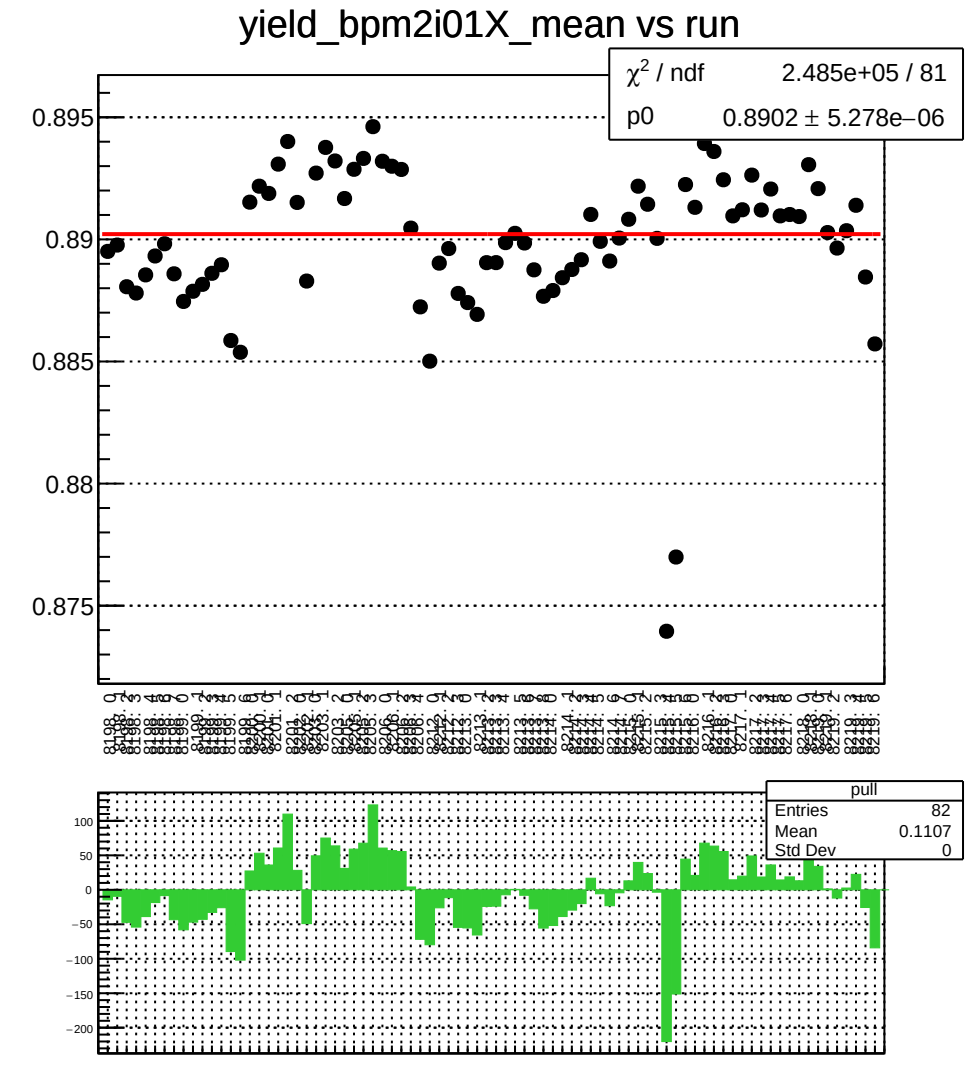

yield_bpm1i06X_mean vs run
χ² / ndf 1.134e+06 / 81
p0 1.053 ± 1.53e−05
pull
Entries 82
Mean −649.6
Std Dev 0
pull1D
Entries 82
Mean −1.415
Std Dev 4.476

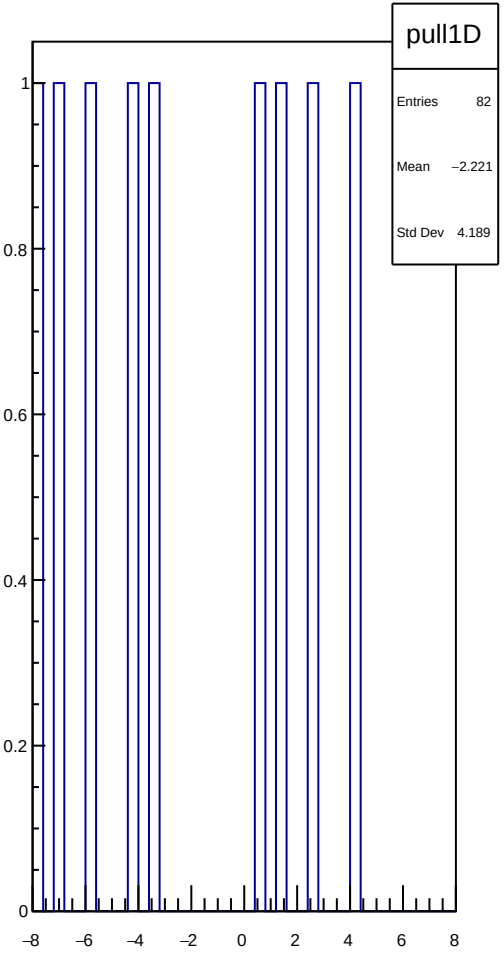

yield_bpm1i06X_rms vs run
χ² / ndf 1.522e+04 / 81
p0 0.01371 ± 1.082e–05
0.022
0.02
0.018
0.016
0.014
0.012

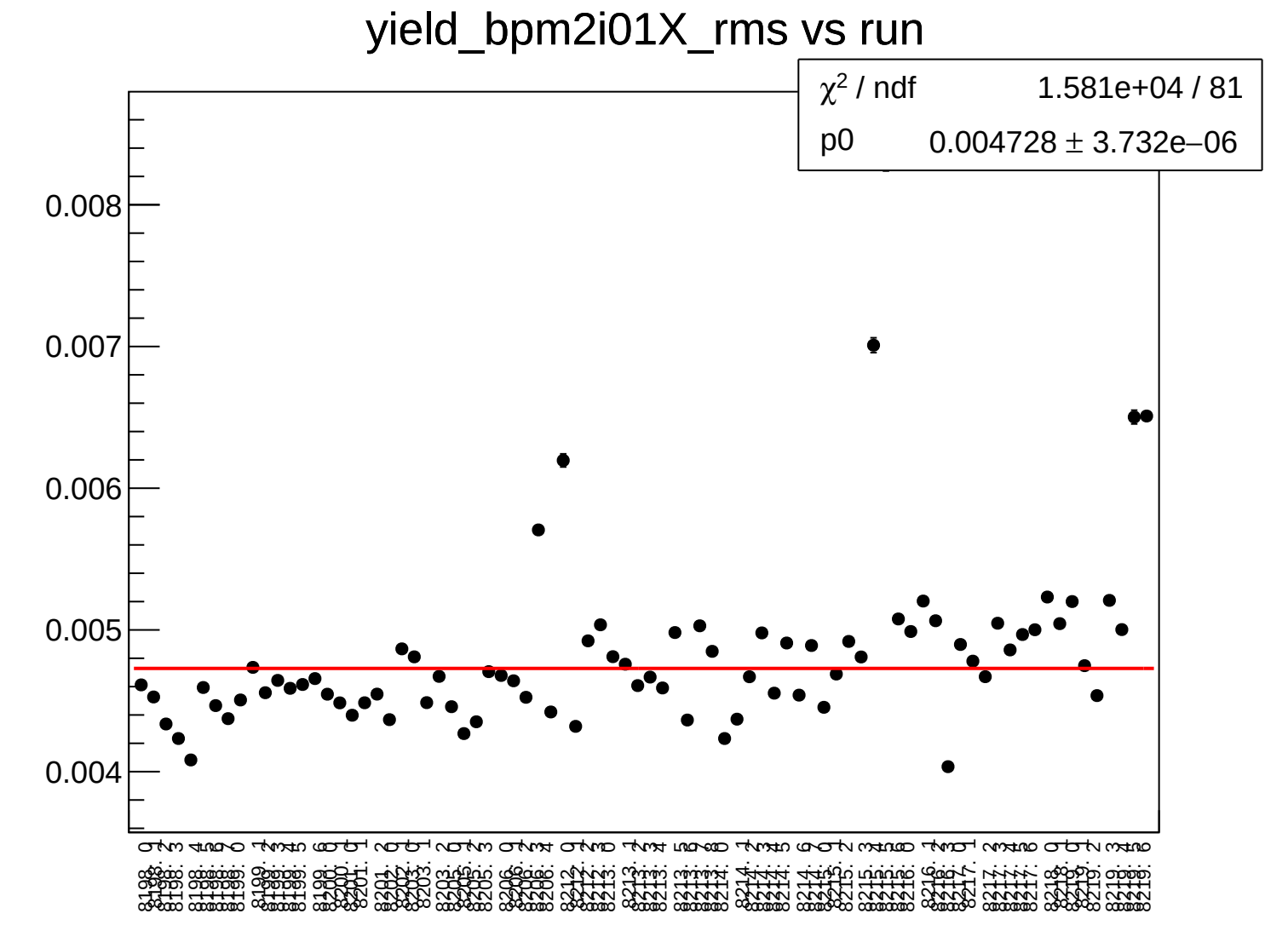

yield_bpm1i06Y_mean vs run
χ² / ndf 2.158e+06 / 81
p0 0.01694 ± 8.045e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean −6124
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

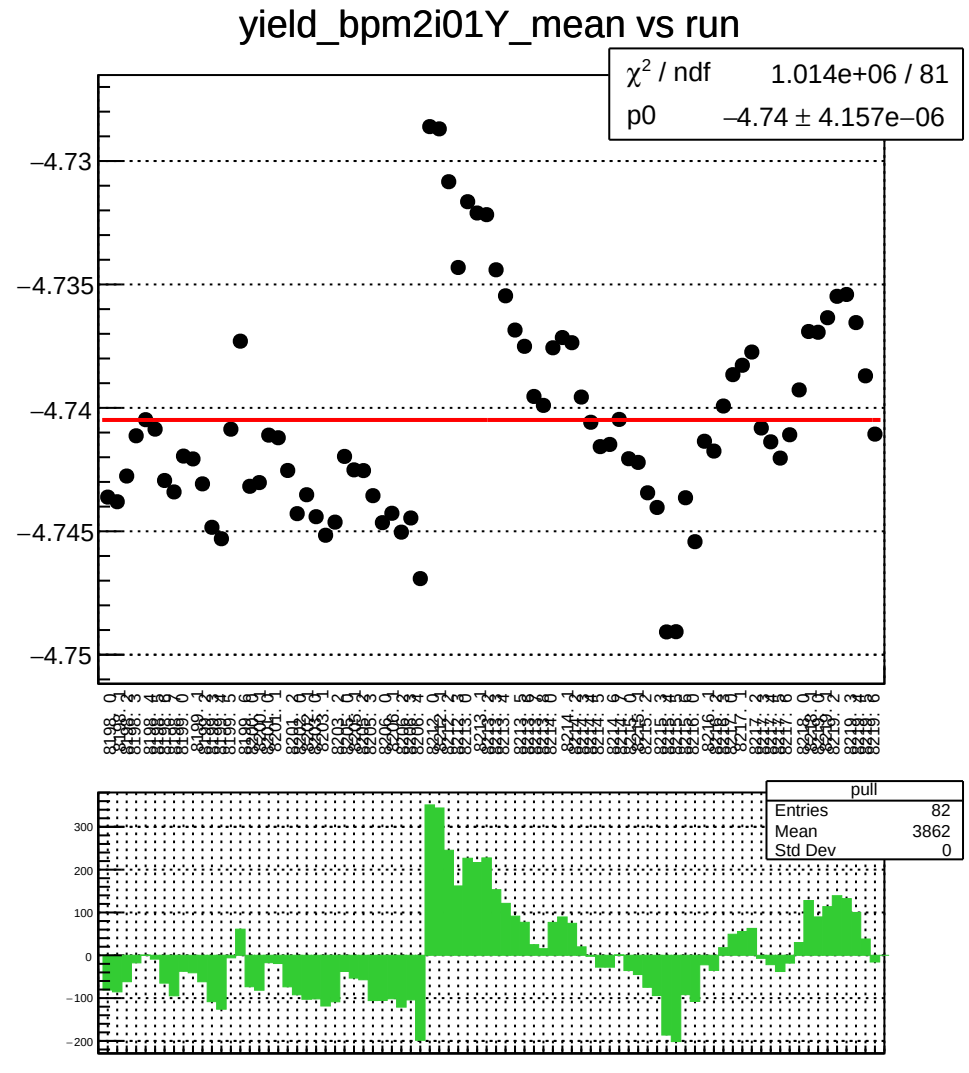

pull1D
Entries 82
Mean 1.722
Std Dev 5.156
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

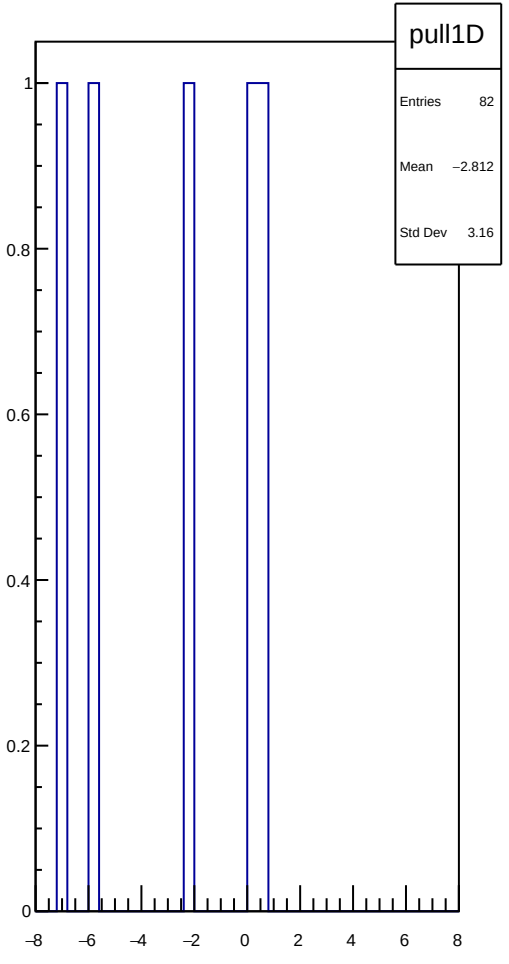

yield_bpm1i06Y_rms vs run
χ² / ndf 3.376e+04 / 81
p0 0.007167 ± 5.689e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

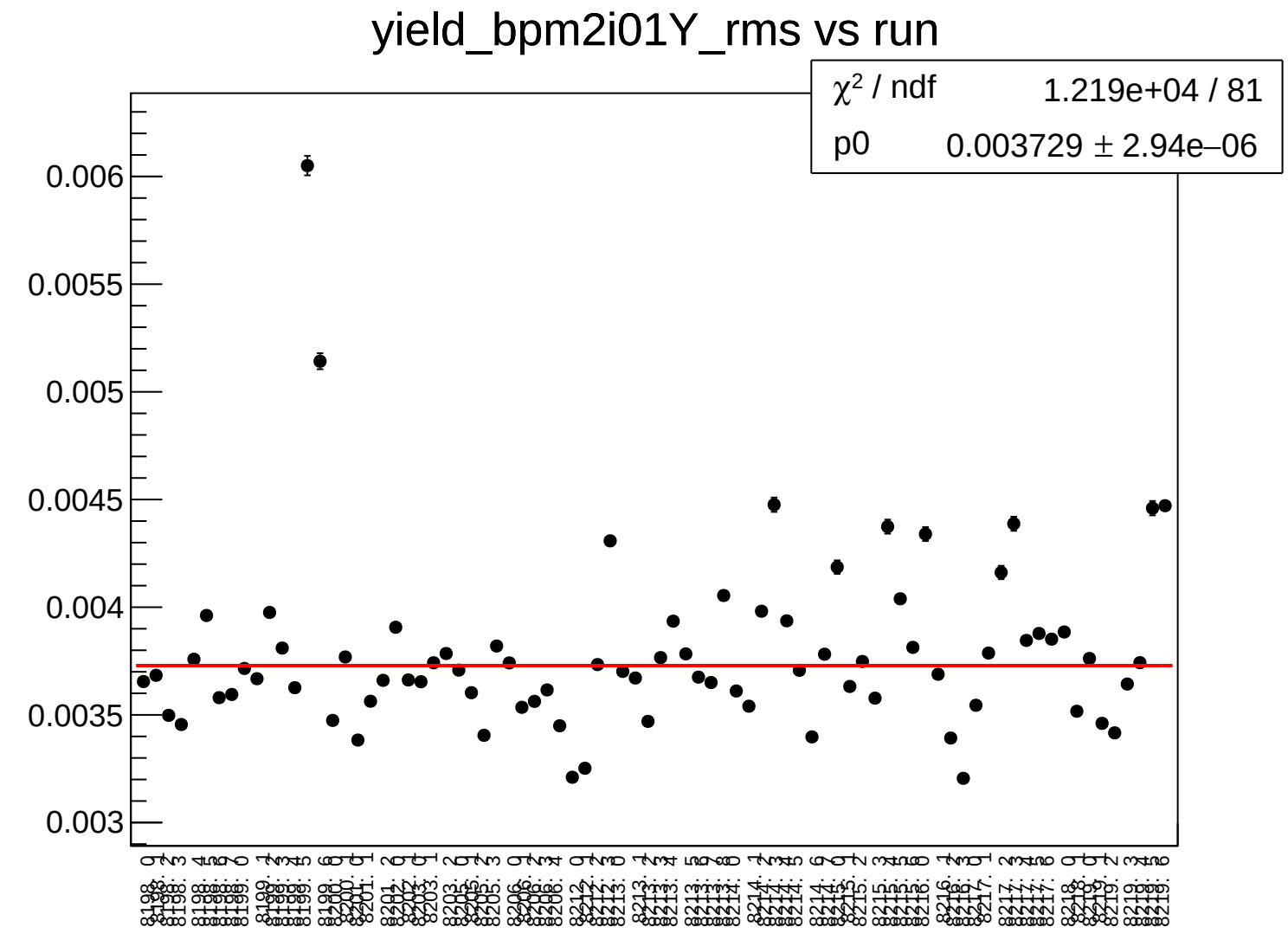

yield_bpm2i01X_mean vs run
χ² / ndf 2.485e+05 / 81
p0 0.8902 ± 5.278e−06
0.895
0.89
0.885
0.88
0.875
pull
Entries 82
Mean 0.1107
Std Dev 0
100
50
0
−50
−100
−150
−200

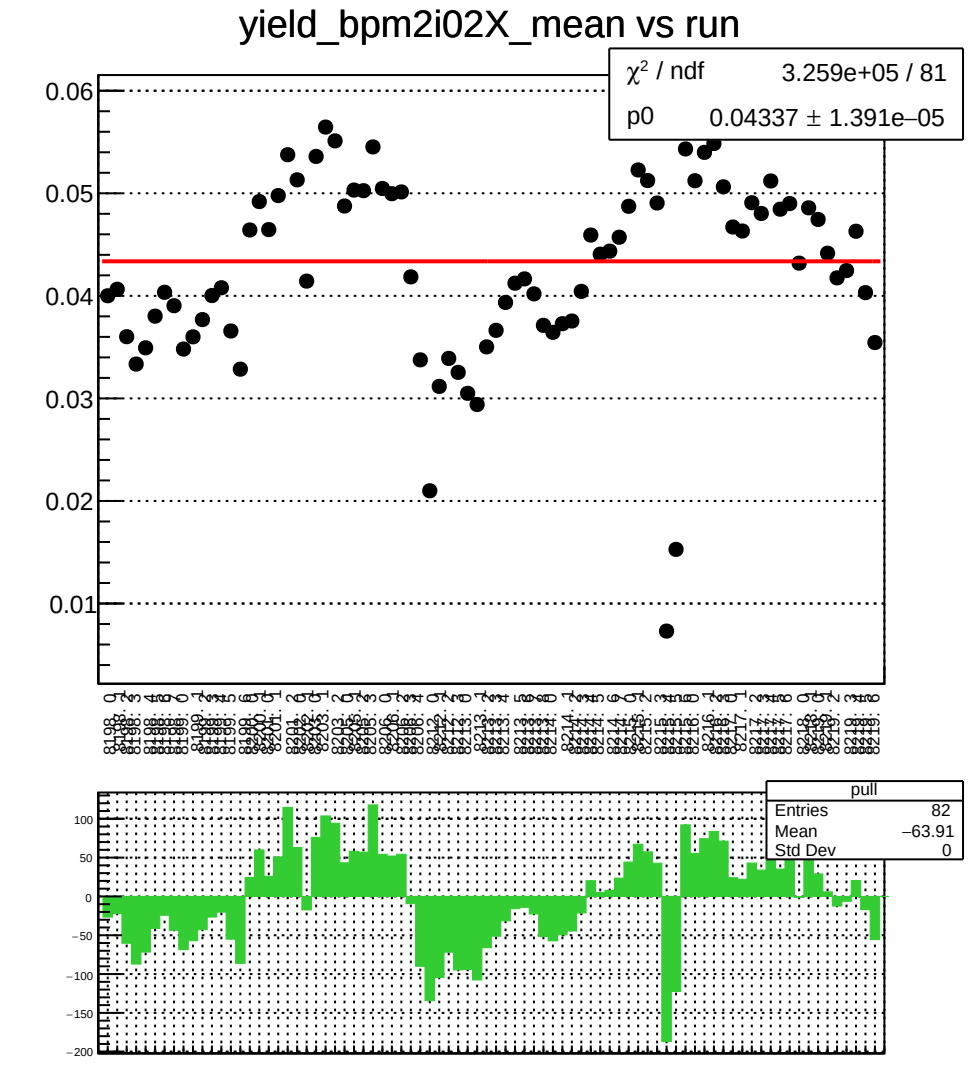

pull1D
Entries 82
Mean −2.221
Std Dev 4.189
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

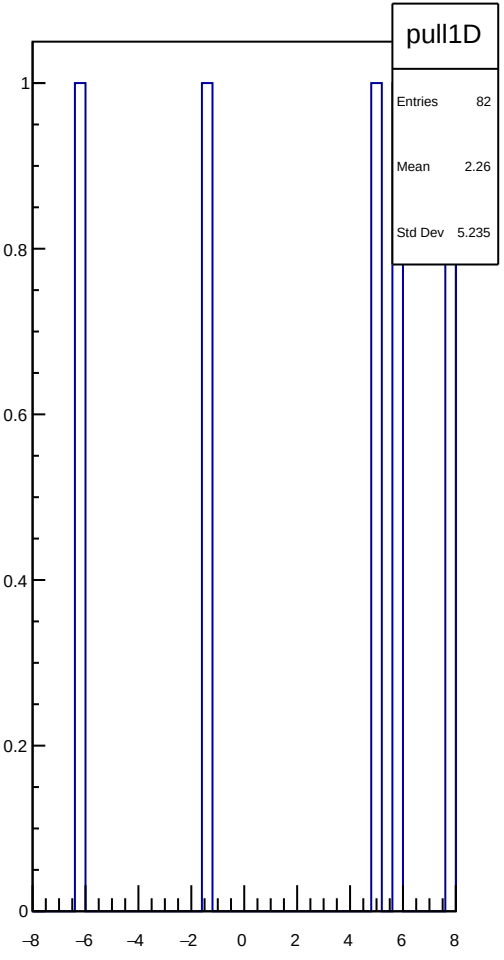

yield_bpm2i01X_rms vs run
χ² / ndf 1.581e+04 / 81
p0 0.004728 ± 3.732e−06
0.008
0.007
0.006
0.005
0.004

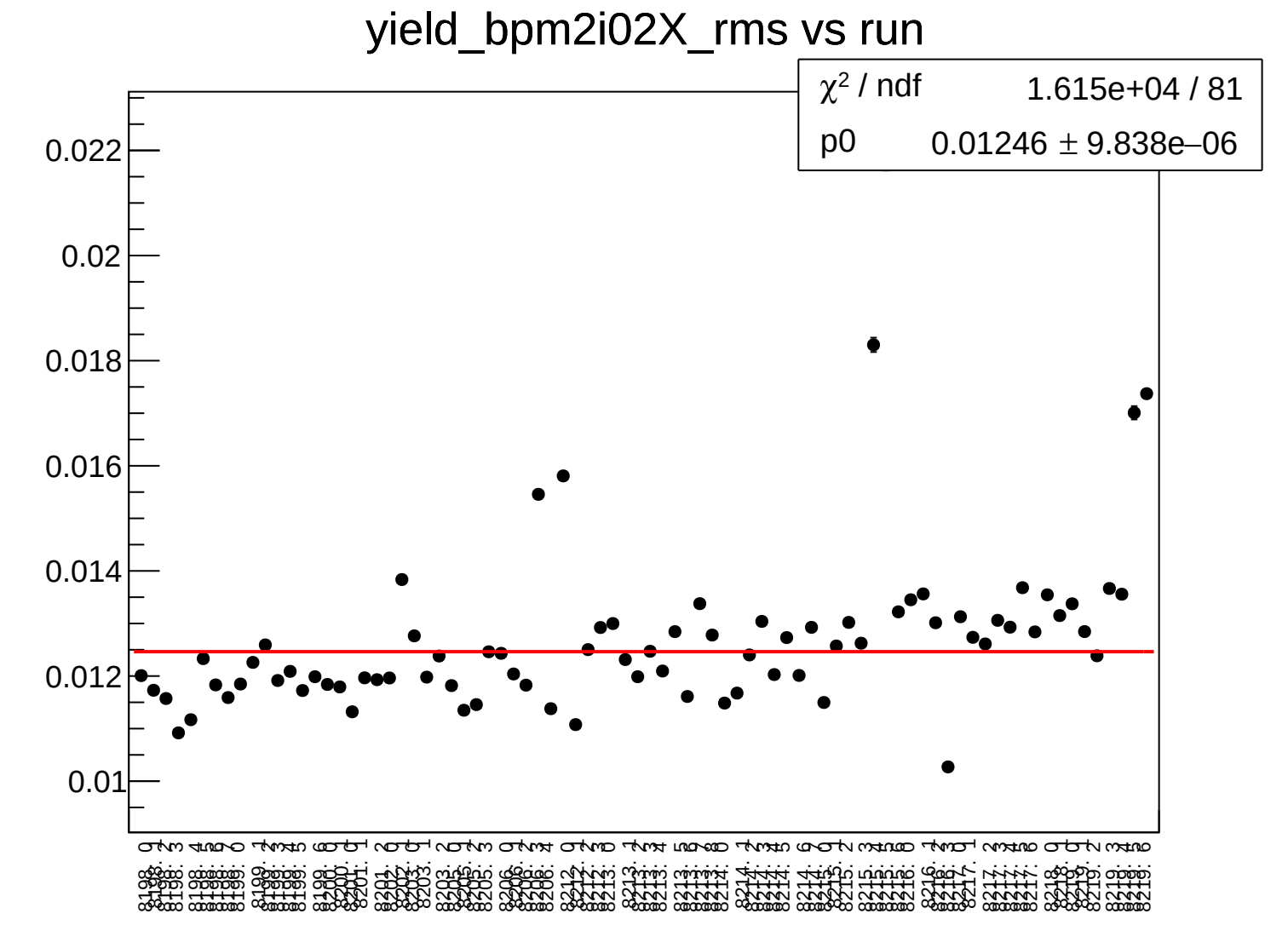

yield_bpm2i01Y_mean vs run
χ² / ndf 1.014e+06 / 81
p0 −4.74 ± 4.157e−06
−4.73
−4.735
−4.74
−4.745
−4.75
pull
Entries 82
Mean 3862
Std Dev 0
300
200
100
0
−100
−200

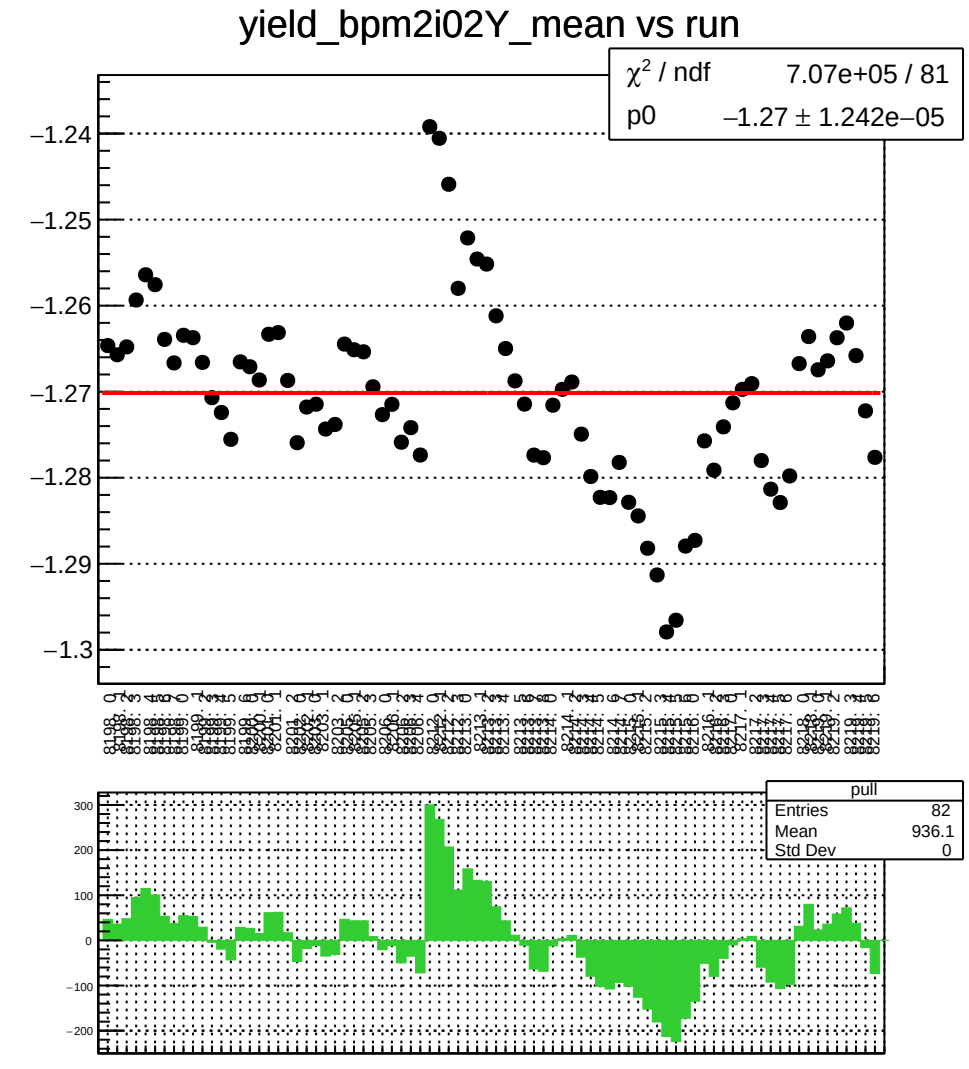

pull1D
Entries 82
Mean −2.812
Std Dev 3.16
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

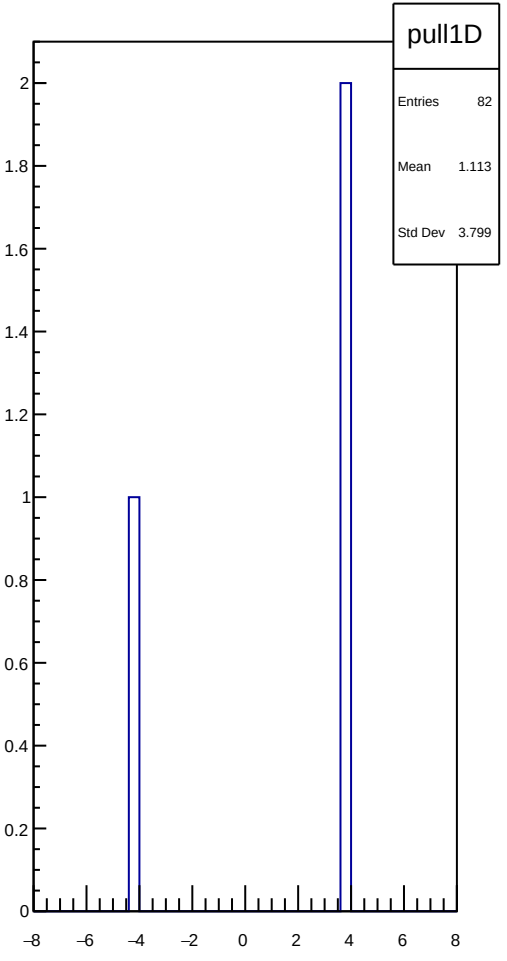

yield_bpm2i01Y_rms vs run
χ² / ndf 1.219e+04 / 81
p0 0.003729 ± 2.94e–06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

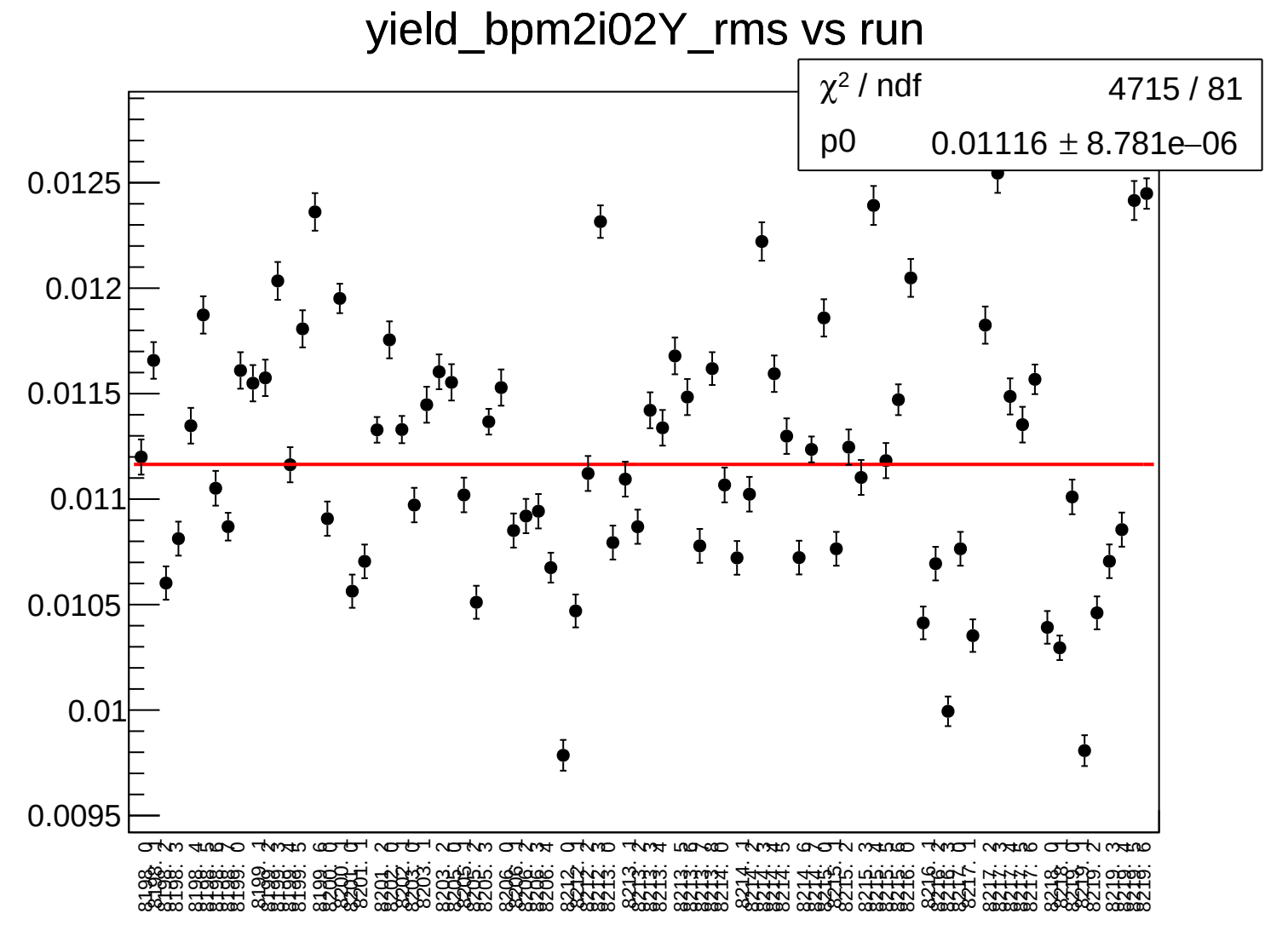

yield_bpm2i02X_mean vs run
χ² / ndf 3.259e+05 / 81
p0 0.04337 ± 1.391e−05
0.06
0.05
0.04
0.03
0.02
0.01
pull
Entries 82
Mean −63.91
Std Dev 0
100
50
0
−50
−100
−150
−200

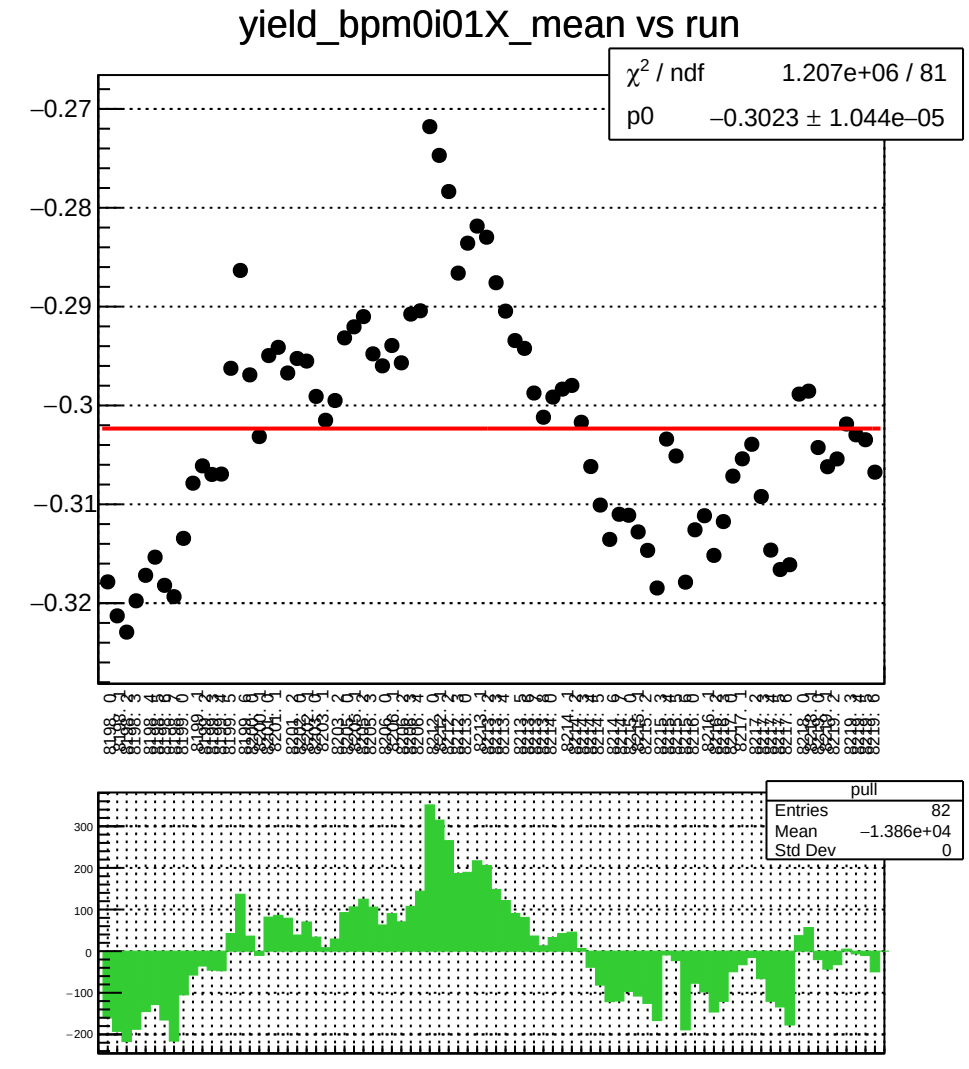

pull1D
Entries 82
Mean 2.26
Std Dev 5.235
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

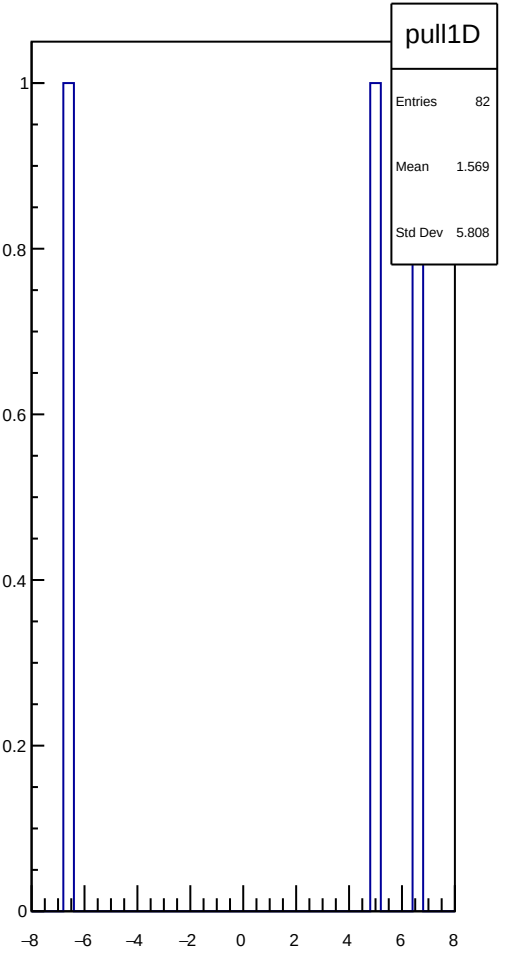

yield_bpm2i02X_rms vs run
χ² / ndf 1.615e+04 / 81
p0 0.01246 ± 9.838e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

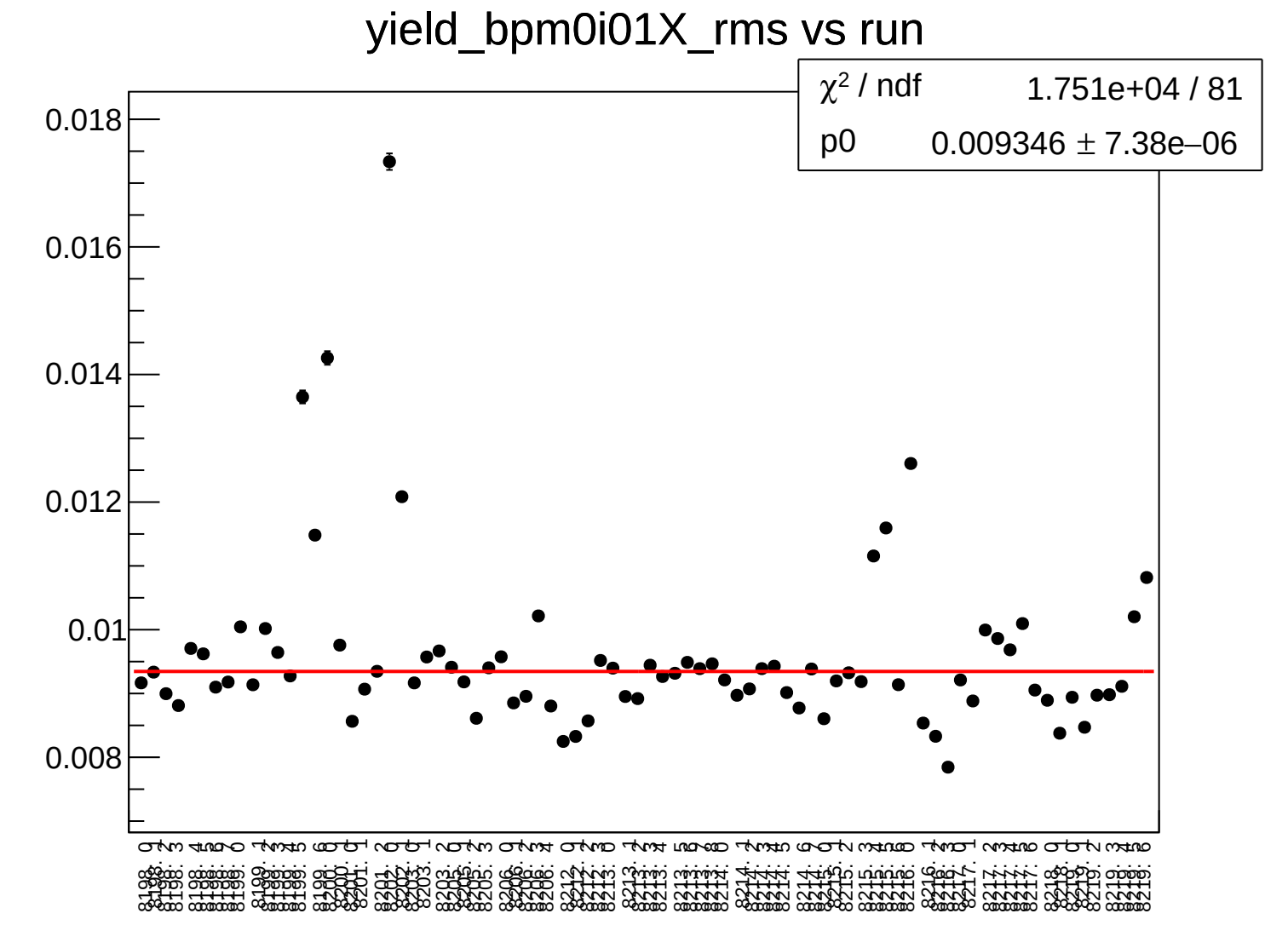

yield_bpm2i02Y_mean vs run
χ² / ndf 7.07e+05 / 81
p0 −1.27 ± 1.242e−05
−1.24
−1.25
−1.26
−1.27
−1.28
−1.29
−1.3
pull
Entries 82
Mean 936.1
Std Dev 0
300
200
100
0
−100
−200

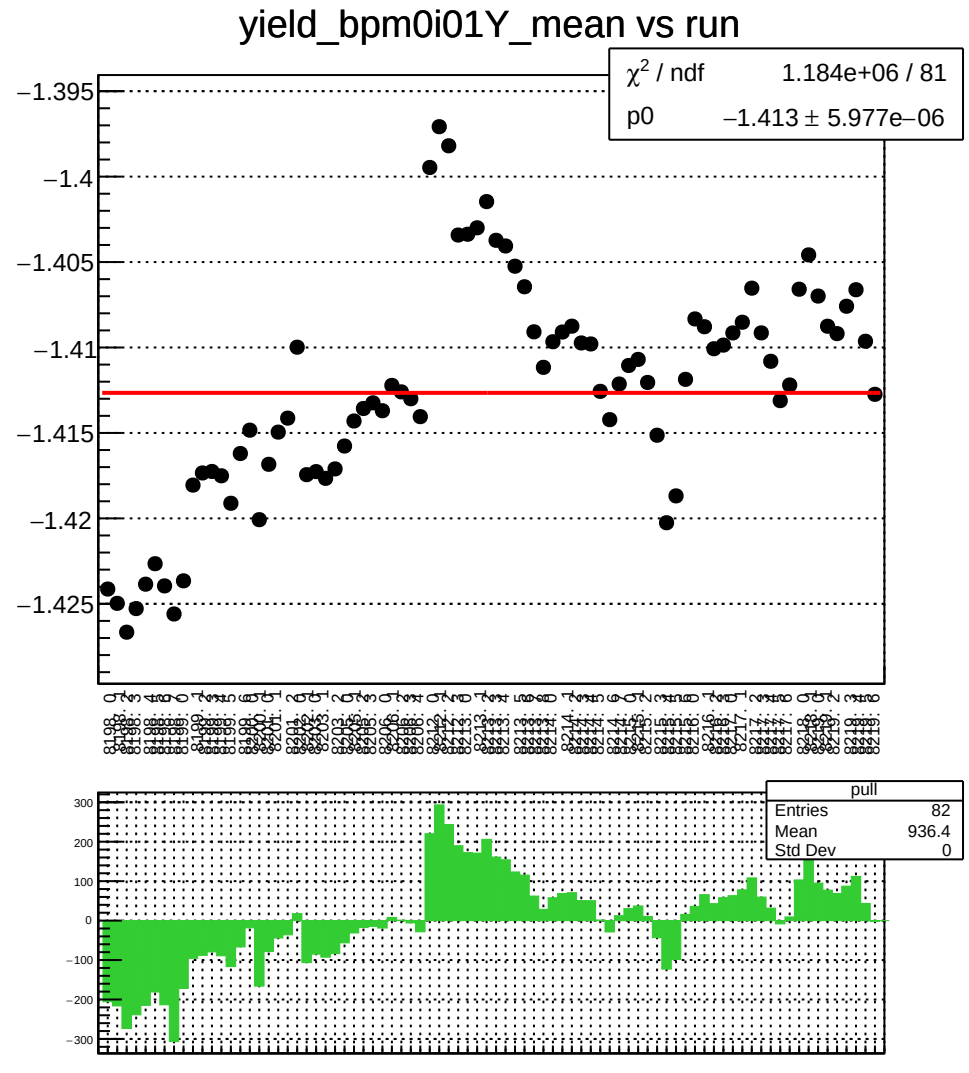

pull1D
Entries 82
Mean 1.113
Std Dev 3.799
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

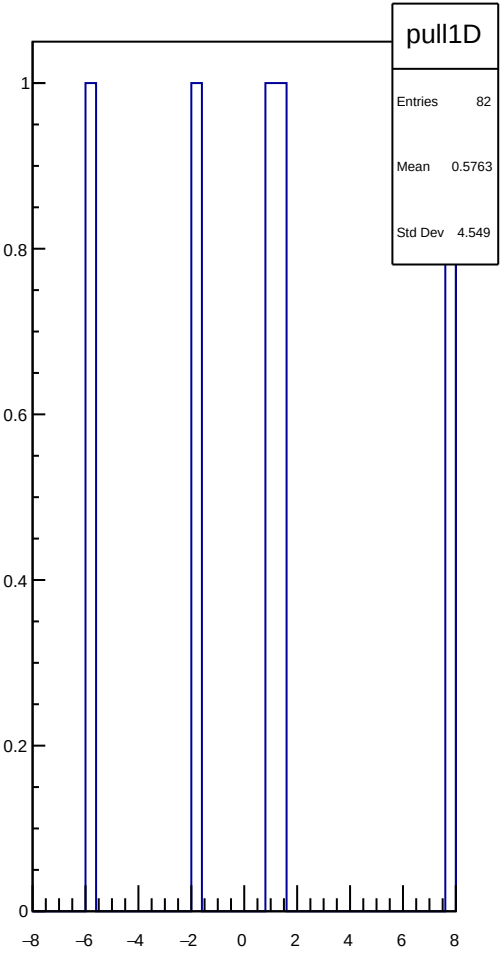

yield_bpm2i02Y_rms vs run
χ² / ndf 4715 / 81
p0 0.01116 ± 8.781e–06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

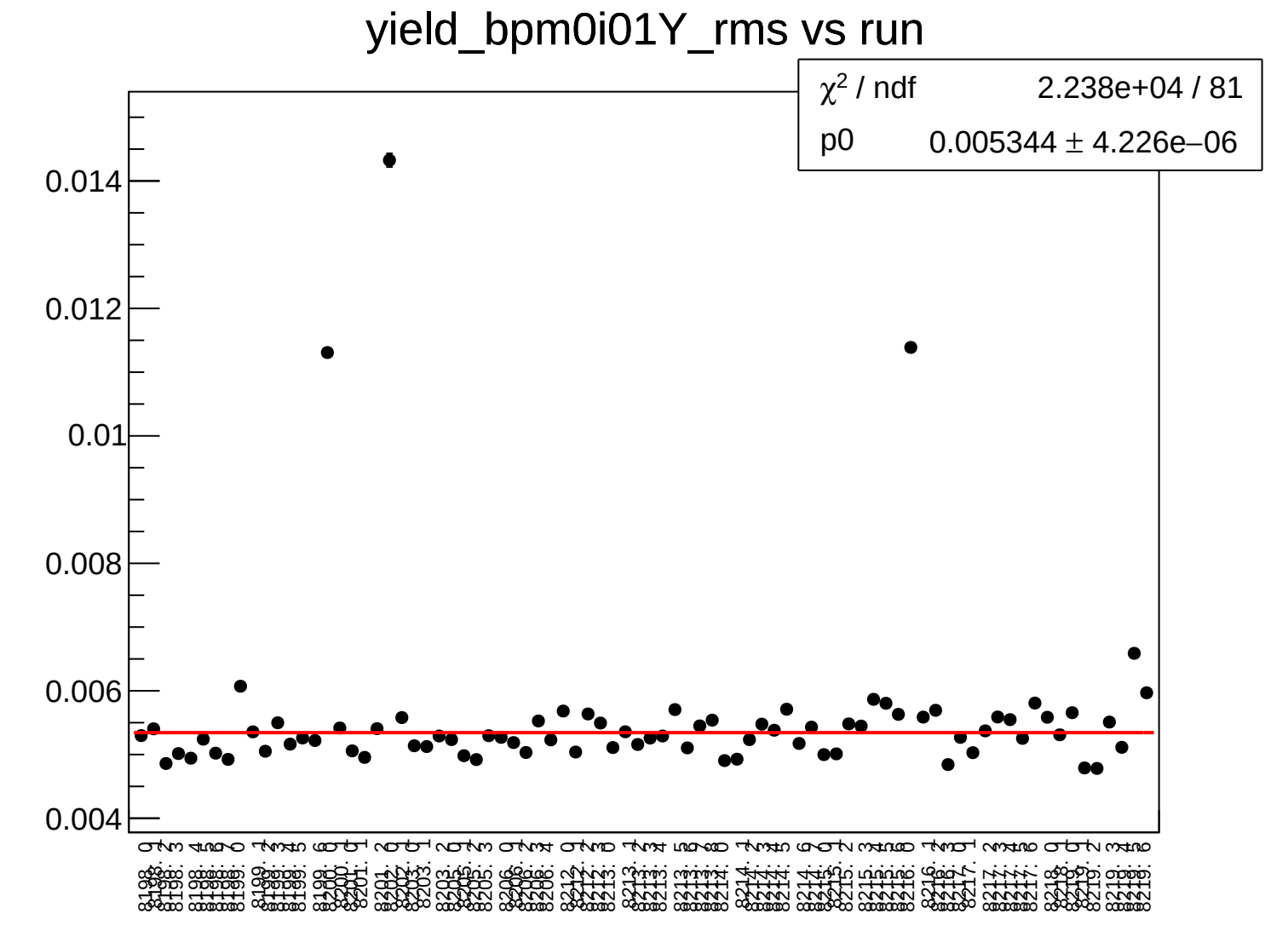

yield_bpm0i01X_mean vs run
χ² / ndf 1.207e+06 / 81
p0 −0.3023 ± 1.044e−05
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
pull
Entries 82
Mean −1.386e+04
Std Dev 0
300
200
100
0
−100
−200

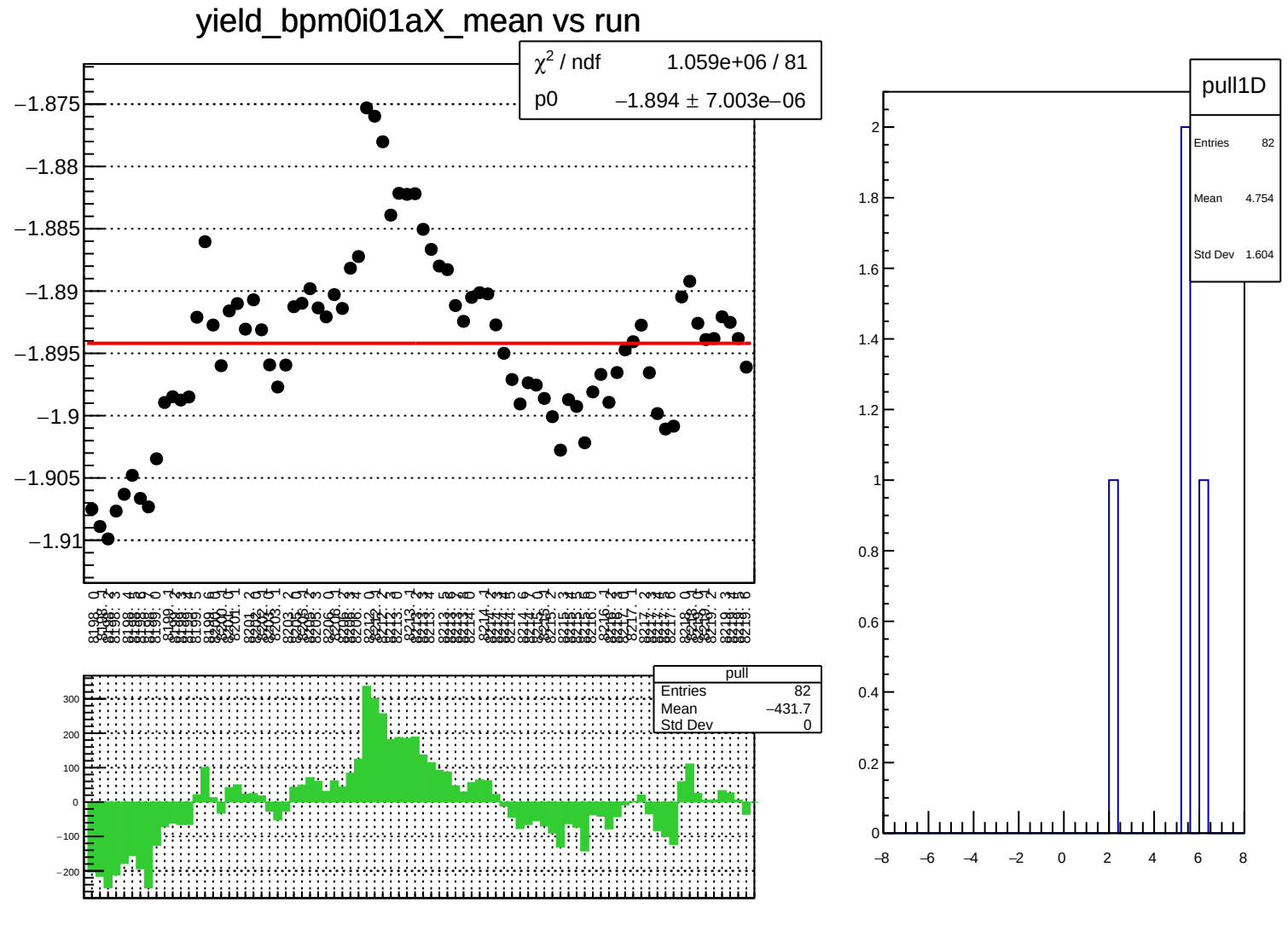

pull1D
Entries 82
Mean 1.569
Std Dev 5.808
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

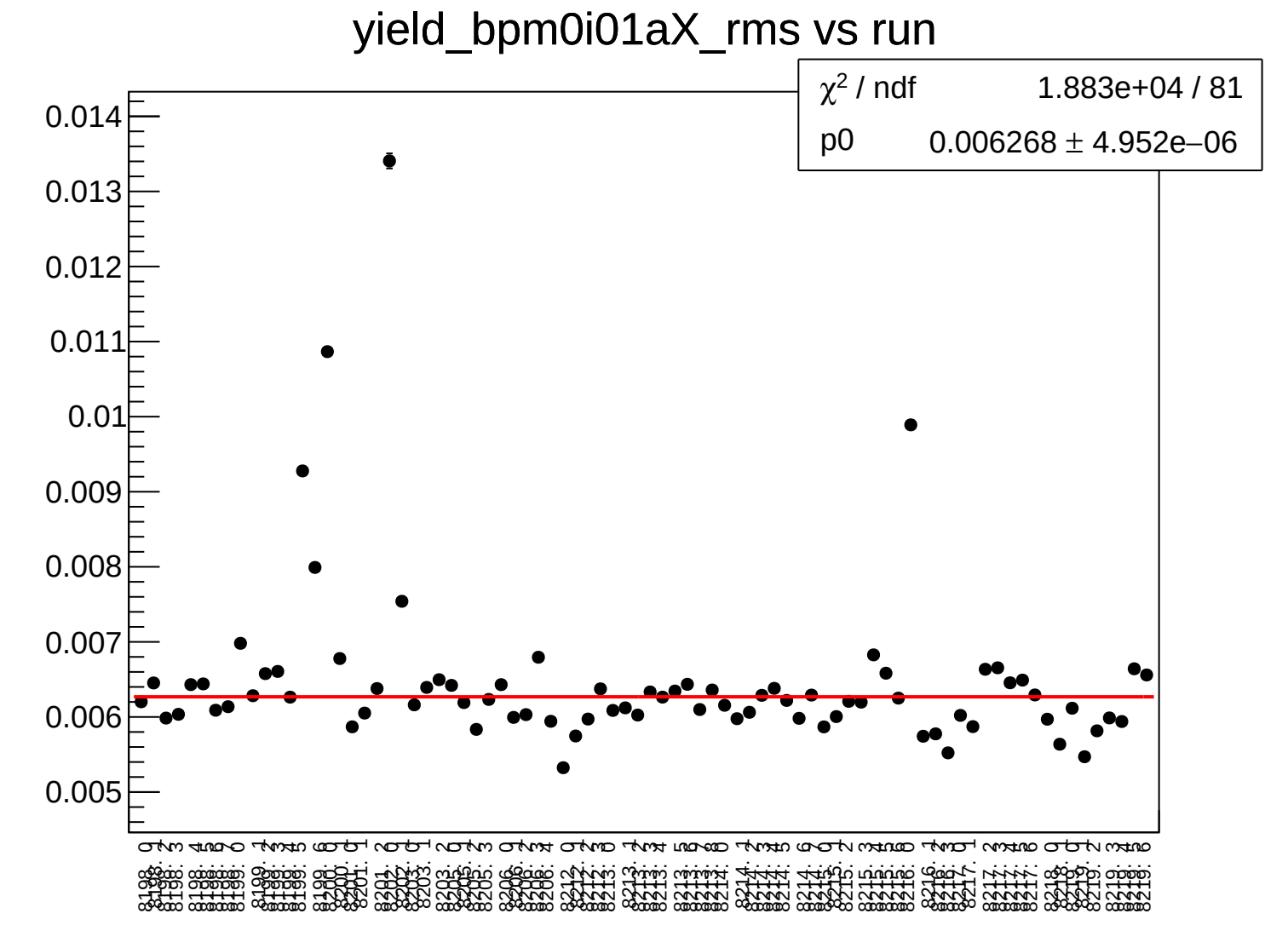

yield_bpm0i01X_rms vs run
χ² / ndf 1.751e+04 / 81
p0 0.009346 ± 7.38e–06
0.018
0.016
0.014
0.012
0.01
0.008

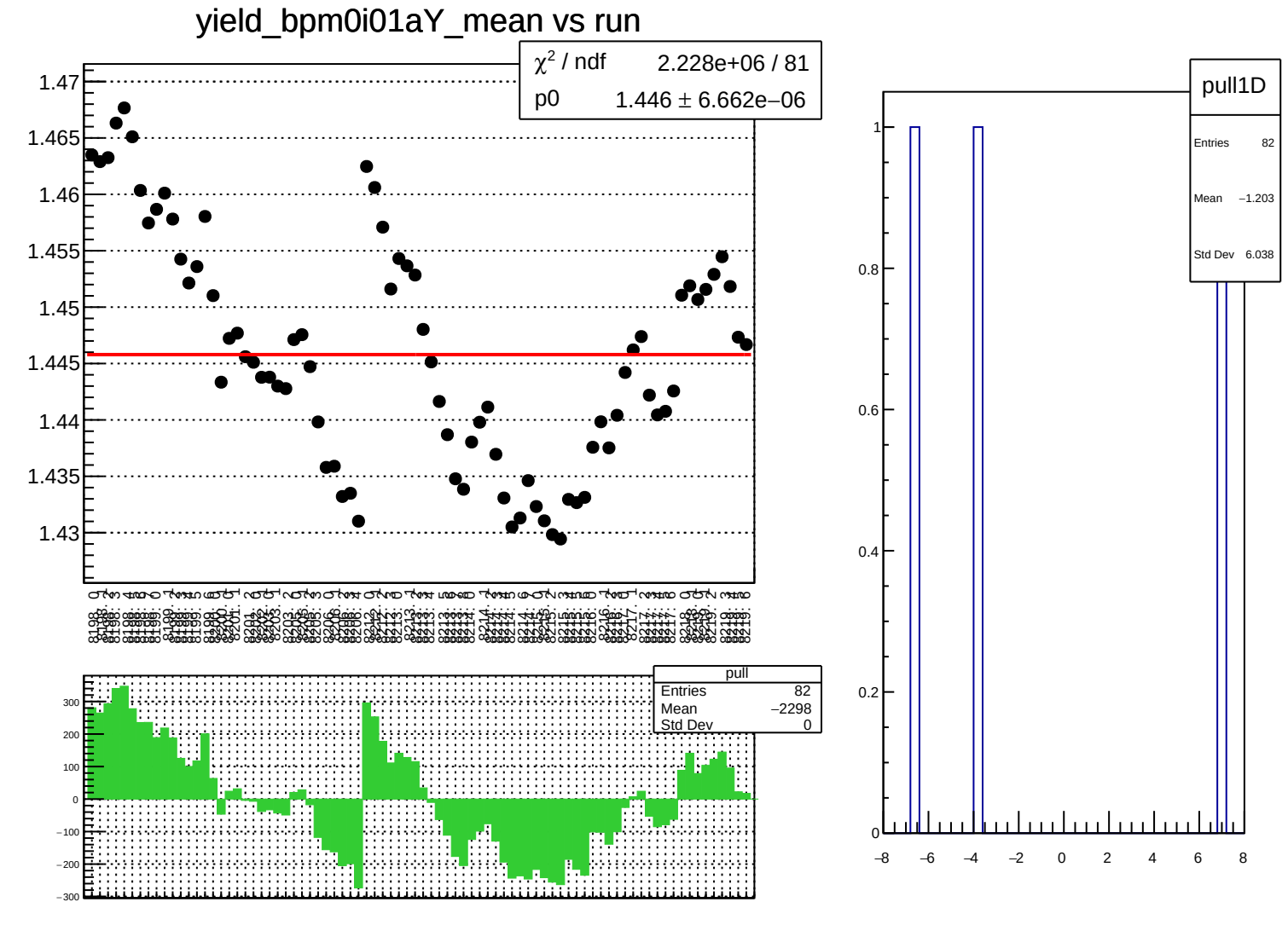

yield_bpm0i01Y_mean vs run
χ² / ndf 1.184e+06 / 81
p0 −1.413 ± 5.977e−06
−1.395
−1.4
−1.405
−1.41
−1.415
−1.42
−1.425
pull
Entries 82
Mean 936.4
Std Dev 0
300
200
100
0
−100
−200
−300

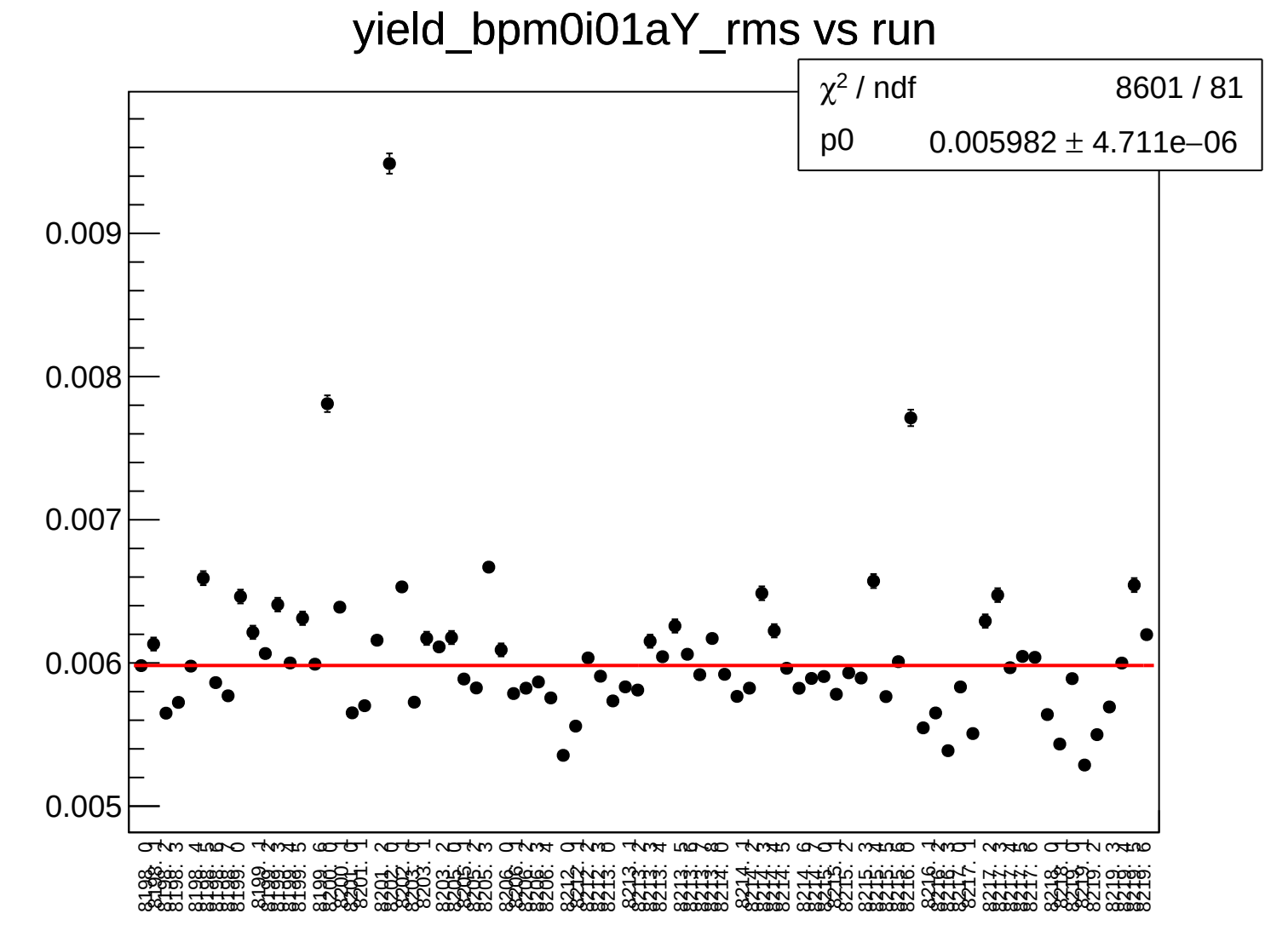

pull1D
Entries 82
Mean 0.5763
Std Dev 4.549
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

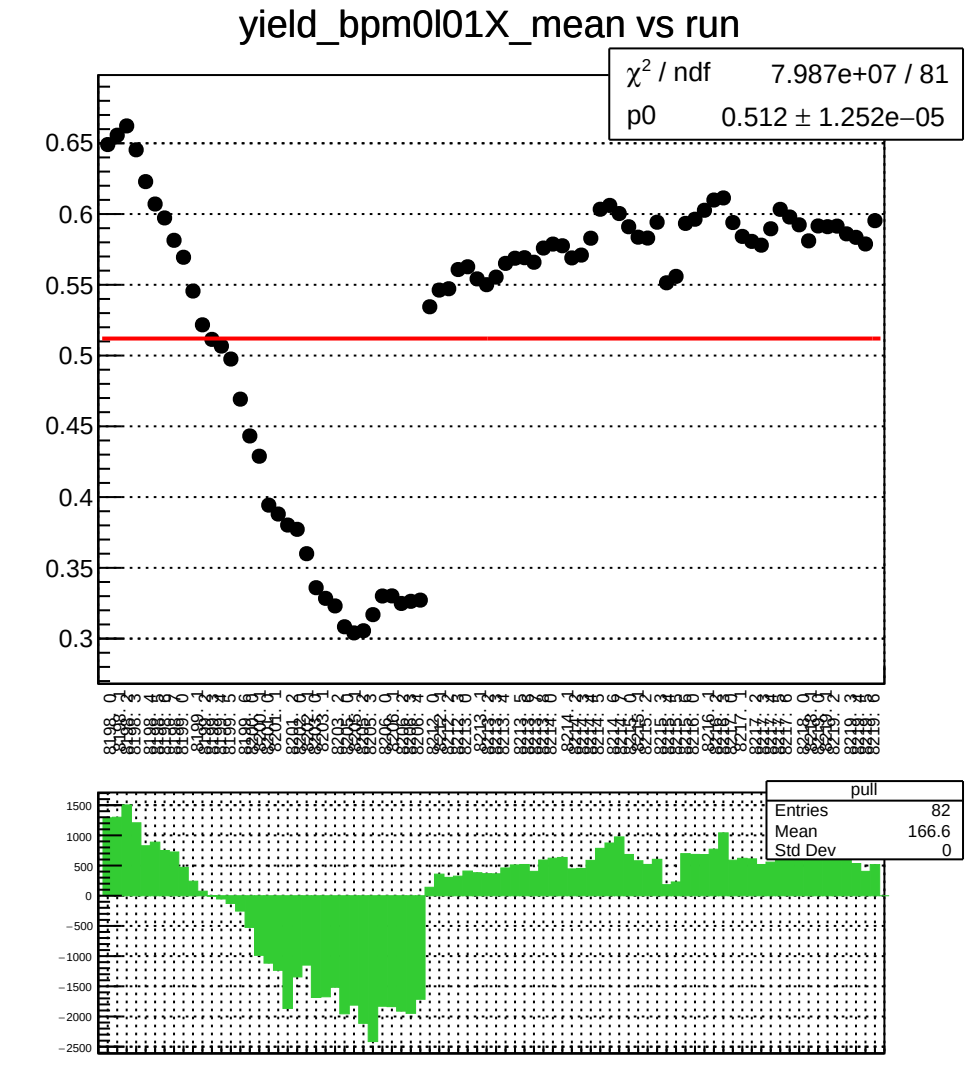

yield_bpm0i01Y_rms vs run
χ² / ndf 2.238e+04 / 81
p0 0.005344 ± 4.226e−06
0.014
0.012
0.01
0.008
0.006
0.004

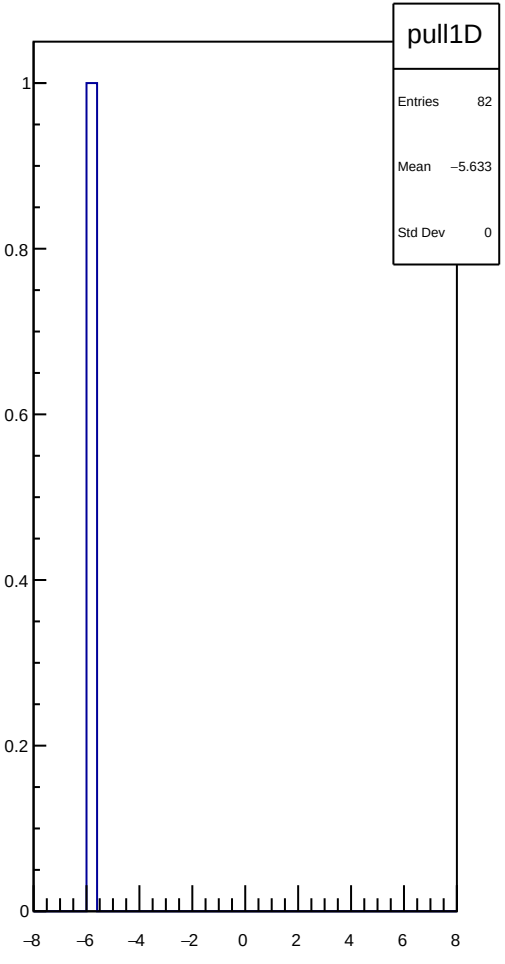

yield_bpm0i01aX_mean vs run
χ² / ndf 1.059e+06 / 81
p0 −1.894 ± 7.003e−06
−1.875
−1.88
−1.885
−1.89
−1.895
−1.9
−1.905
−1.91
pull
Entries 82
Mean −431.7
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 82
Mean 4.754
Std Dev 1.604
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

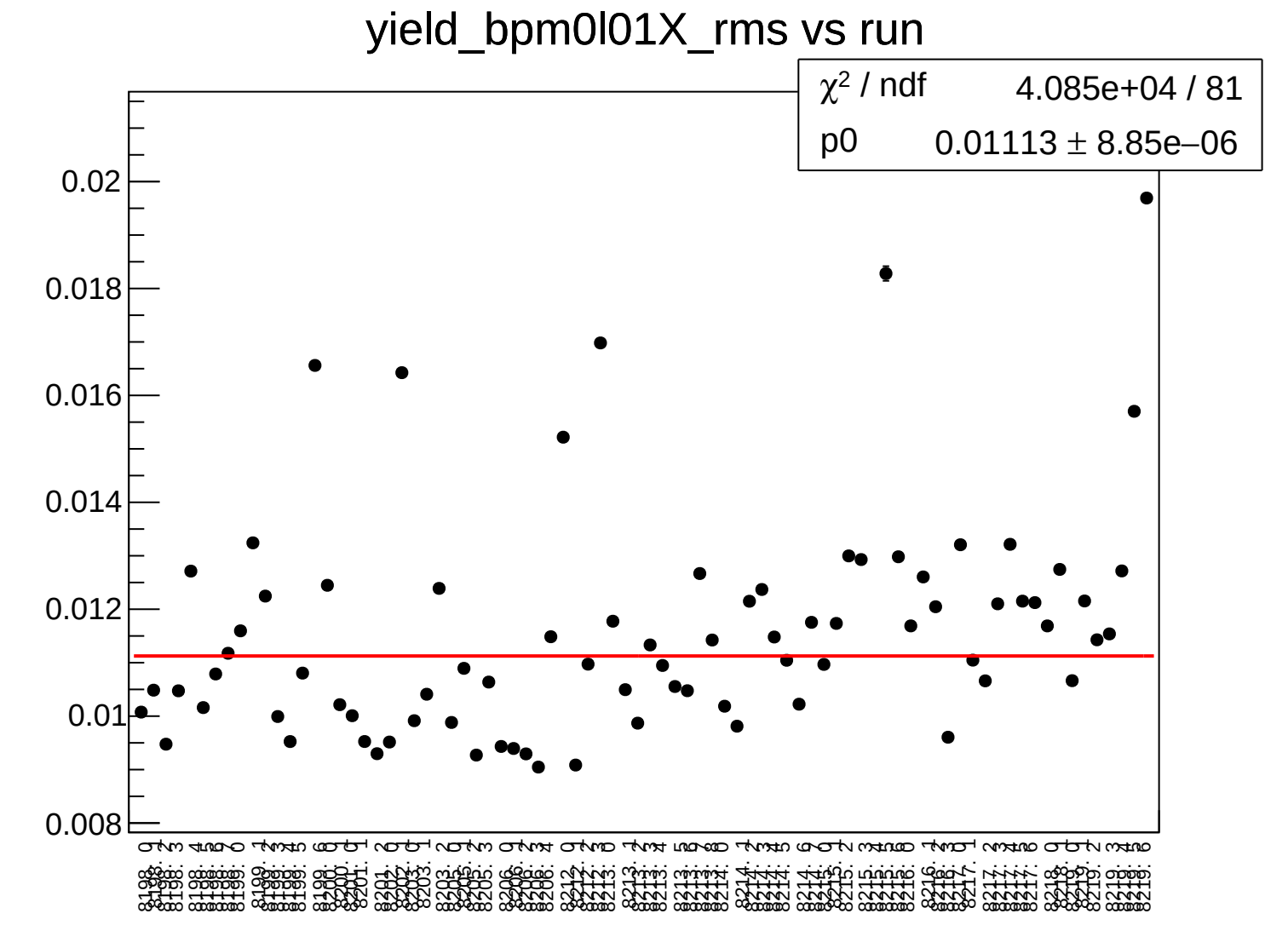

yield_bpm0i01aX_rms vs run
χ² / ndf 1.883e+04 / 81
p0 0.006268 ± 4.952e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

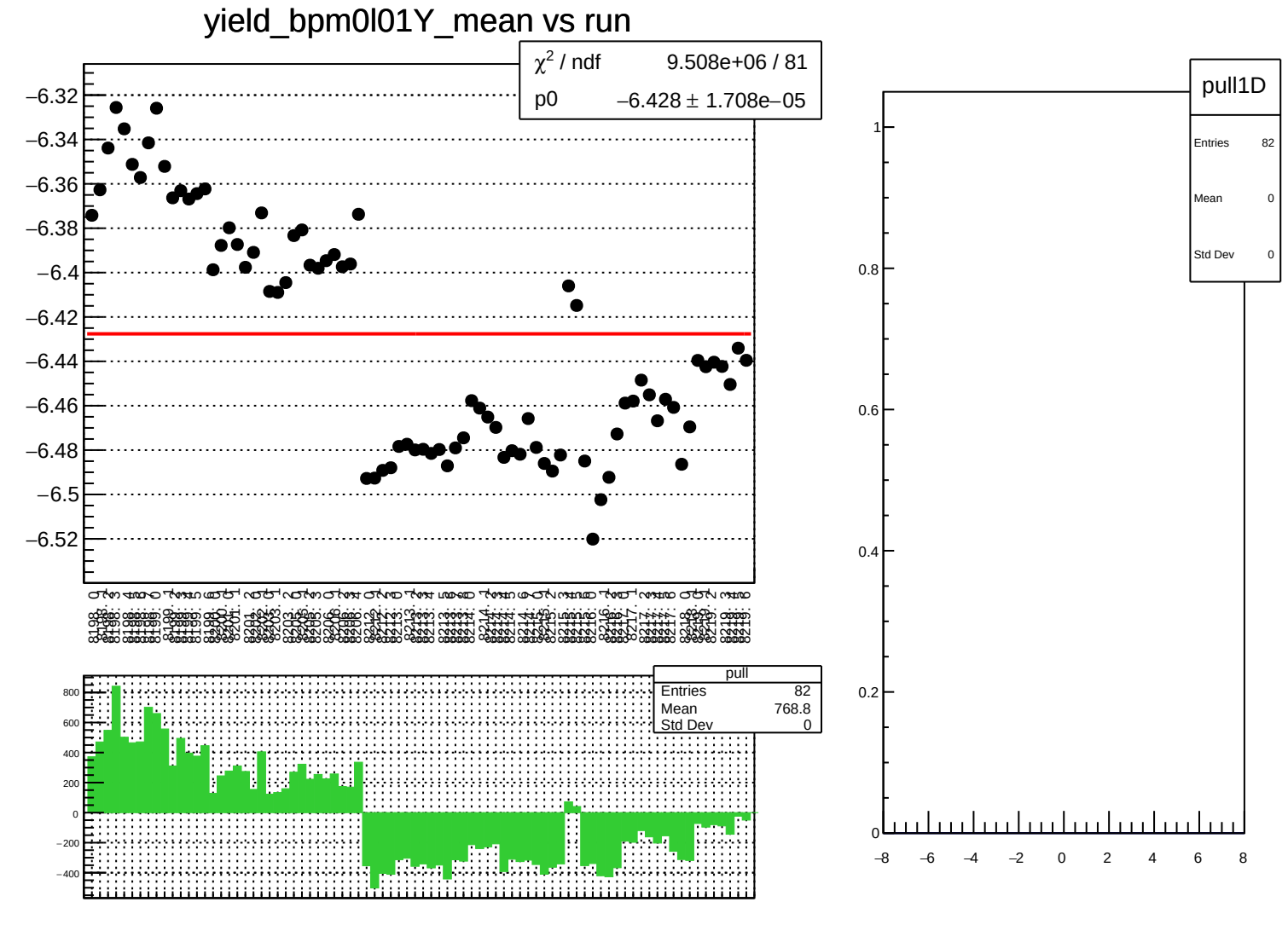

yield_bpm0i01aY_mean vs run
χ² / ndf 2.228e+06 / 81
p0 1.446 ± 6.662e−06
1.47
1.465
1.46
1.455
1.45
1.445
1.44
1.435
1.43
pull
Entries 82
Mean −2298
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 82
Mean −1.203
Std Dev 6.038
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

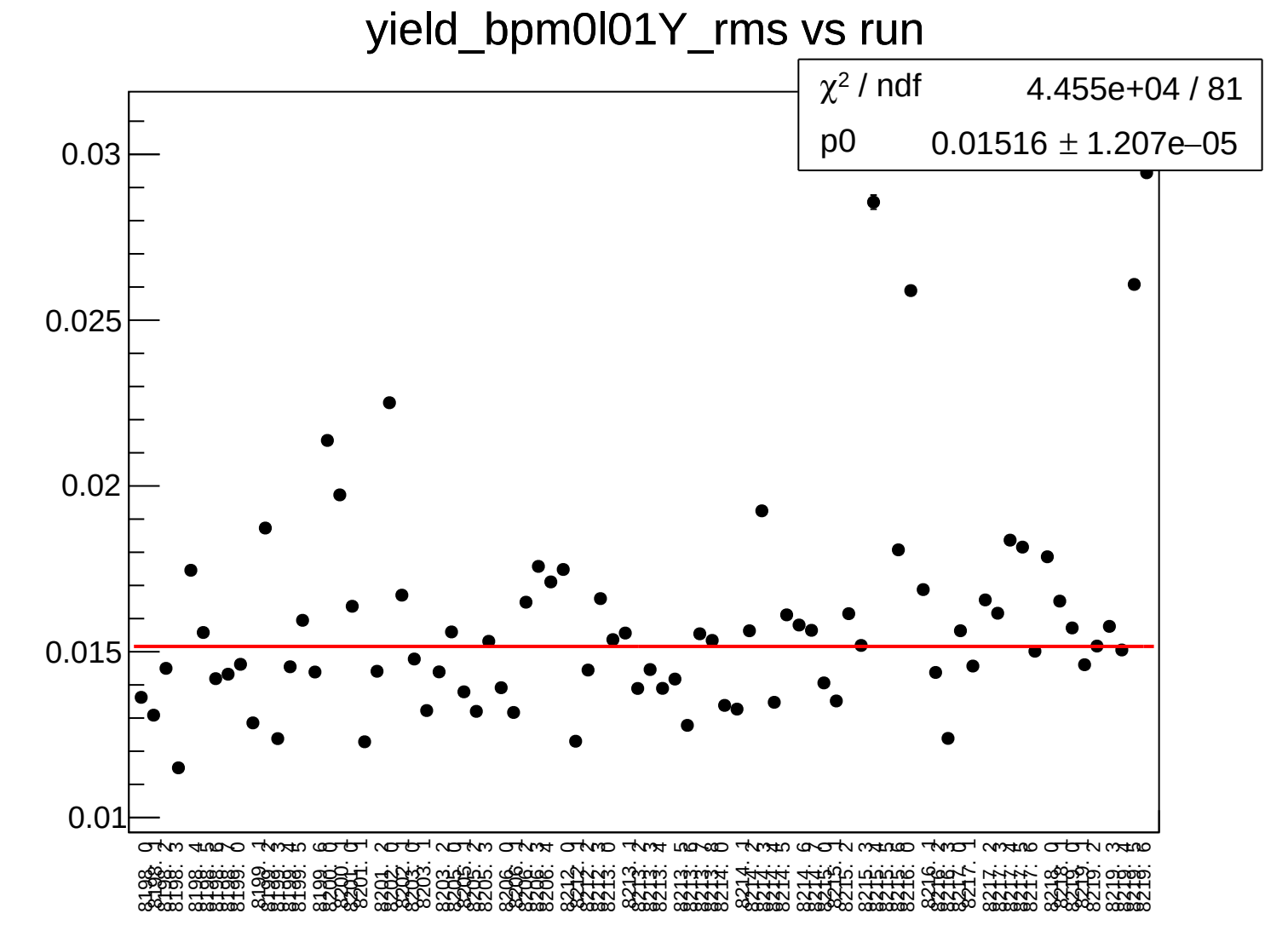

yield_bpm0i01aY_rms vs run
χ² / ndf 8601 / 81
p0 0.005982 ± 4.711e−06
0.009
0.008
0.007
0.006
0.005

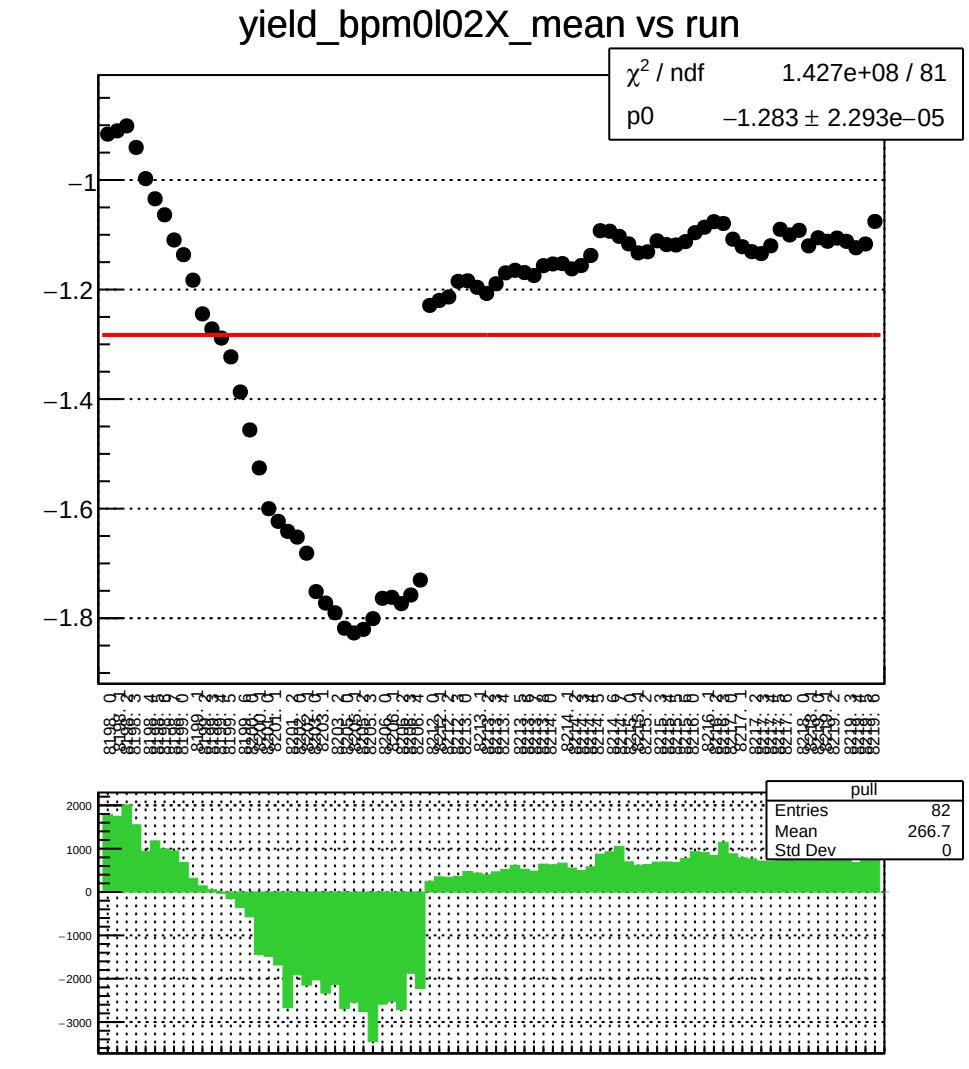

yield_bpm0l01X_mean vs run
χ² / ndf 7.987e+07 / 81
p0 0.512 ± 1.252e−05
pull
Entries 82
Mean 166.6
Std Dev 0

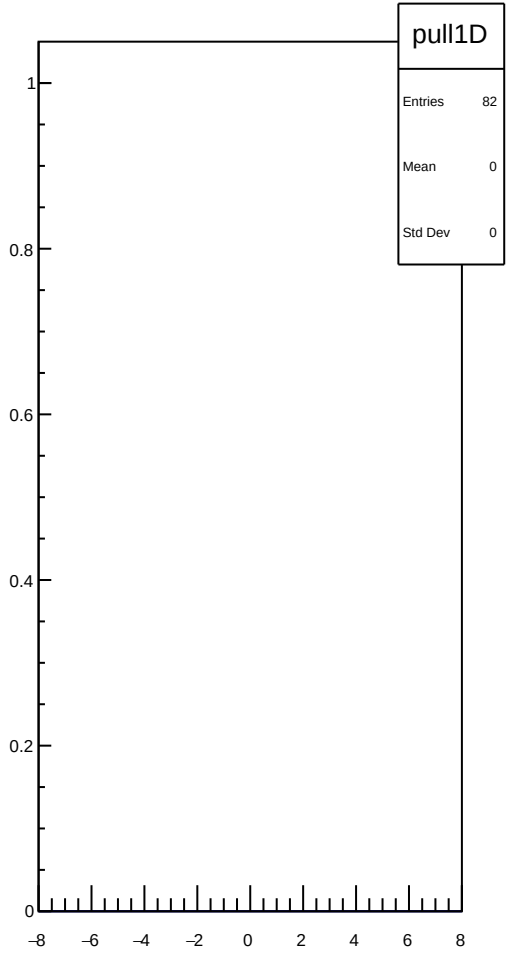

pull1D
Entries 82
Mean −5.633
Std Dev 0

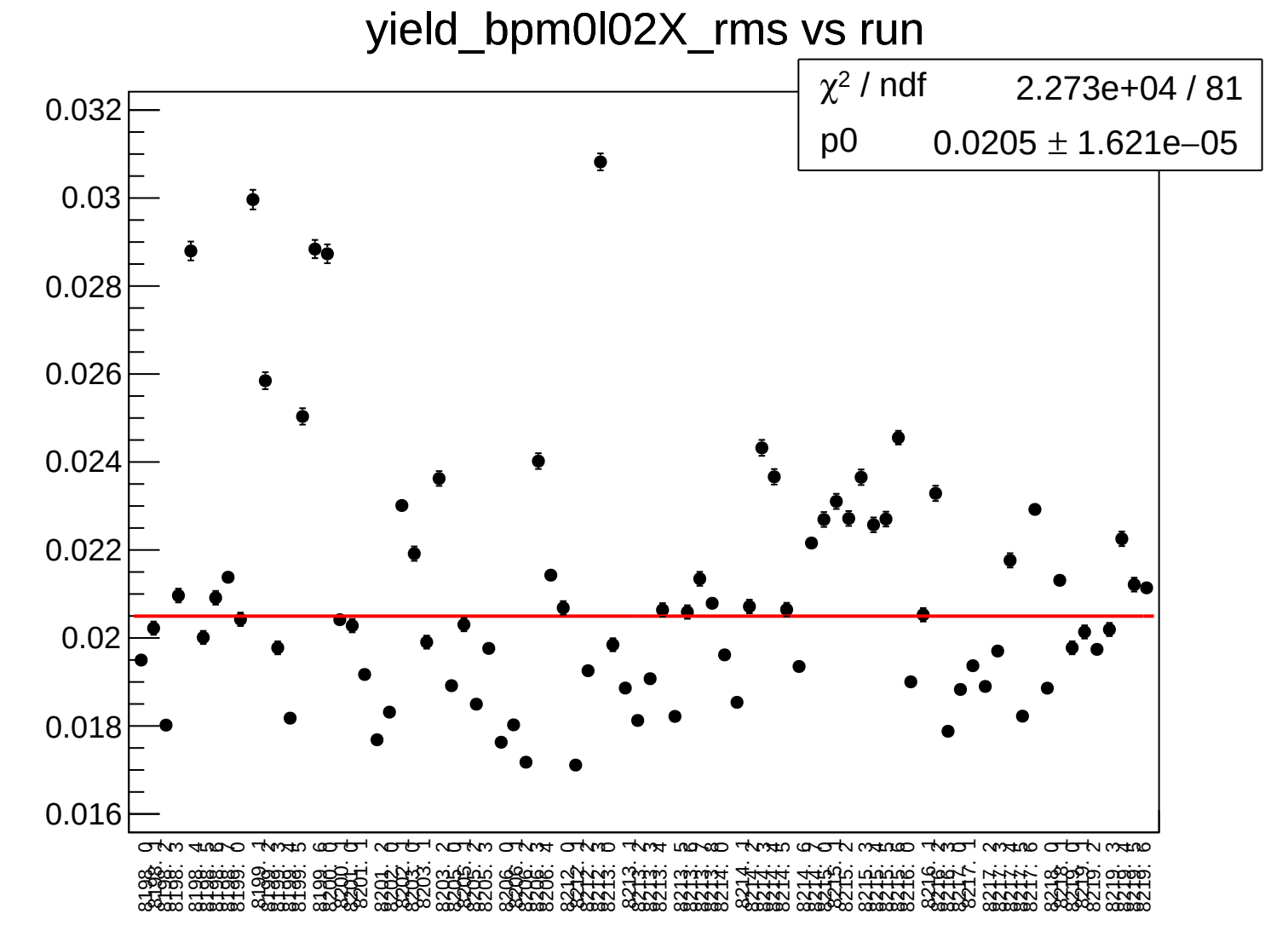

yield_bpm0l01X_rms vs run
χ² / ndf 4.085e+04 / 81
p0 0.01113 ± 8.85e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

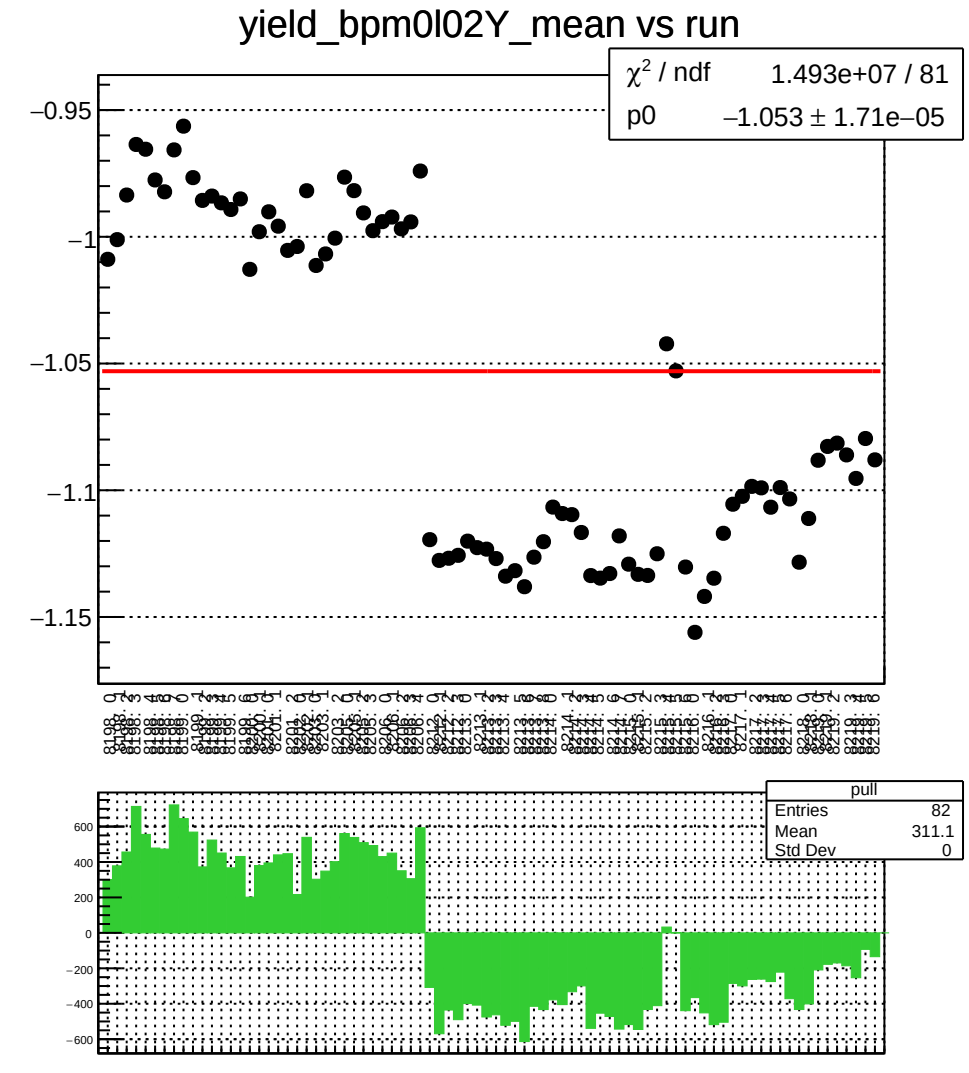

yield_bpm0l01Y_mean vs run
χ² / ndf 9.508e+06 / 81
p0 −6.428 ± 1.708e−05
−6.32
−6.34
−6.36
−6.38
−6.4
−6.42
−6.44
−6.46
−6.48
−6.5
−6.52
pull
Entries 82
Mean 768.8
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

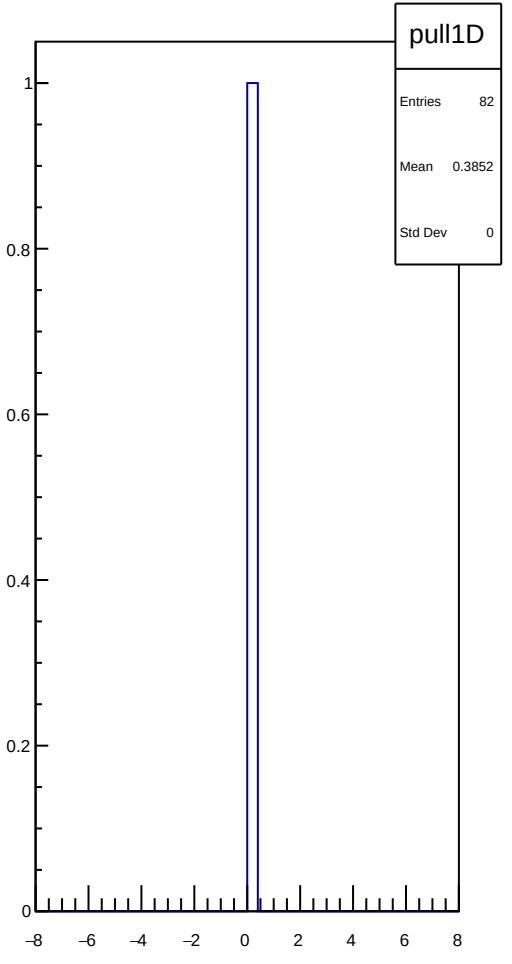

yield_bpm0l01Y_rms vs run
χ² / ndf 4.455e+04 / 81
p0 0.01516 ± 1.207e–05
0.03
0.025
0.02
0.015
0.01

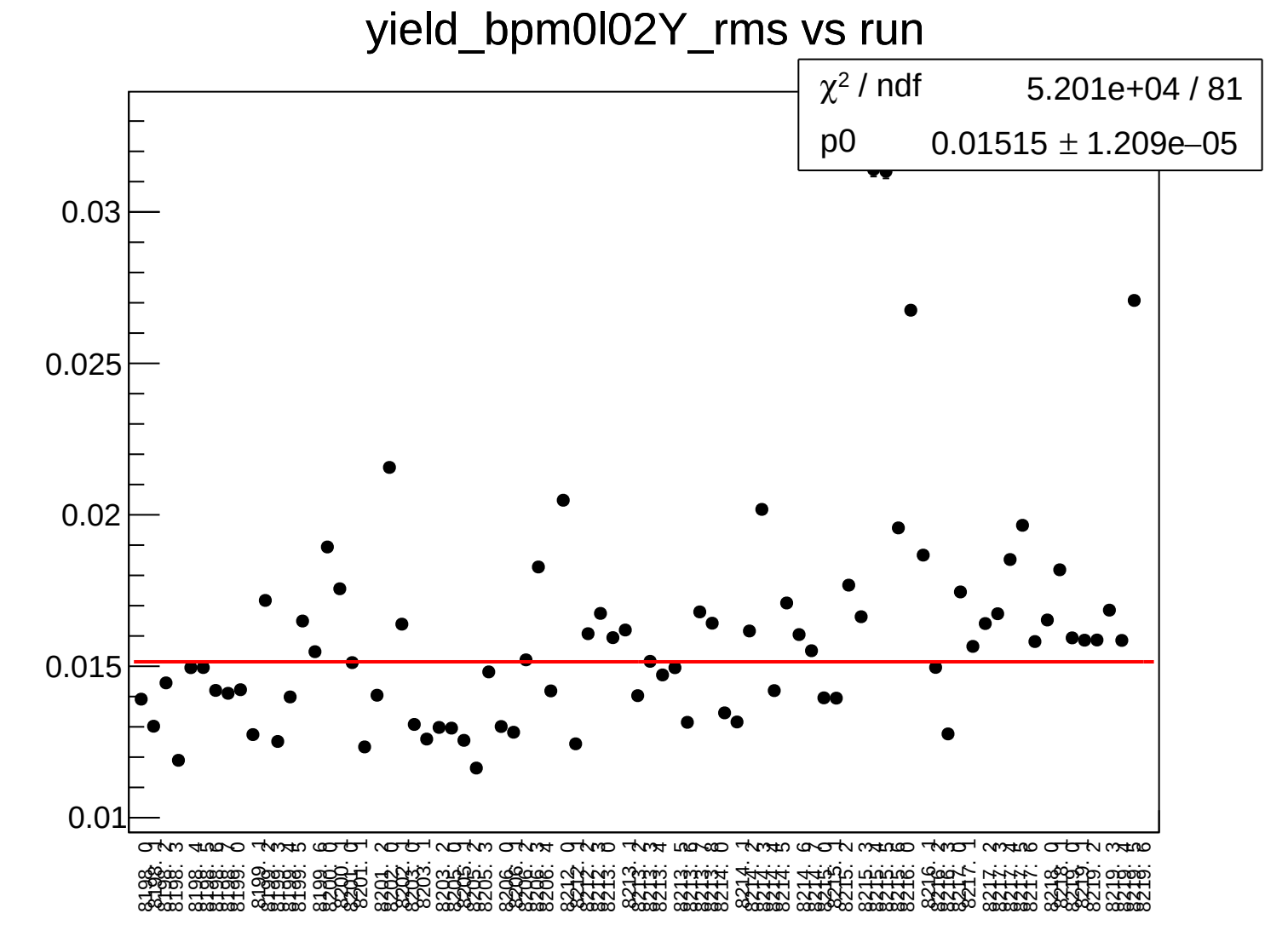

yield_bpm0l02X_mean vs run
χ² / ndf 1.427e+08 / 81
p0 −1.283 ± 2.293e−05
−1
−1.2
−1.4
−1.6
−1.8
pull
Entries 82
Mean 266.7
Std Dev 0
2000
1000
0
−1000
−2000
−3000

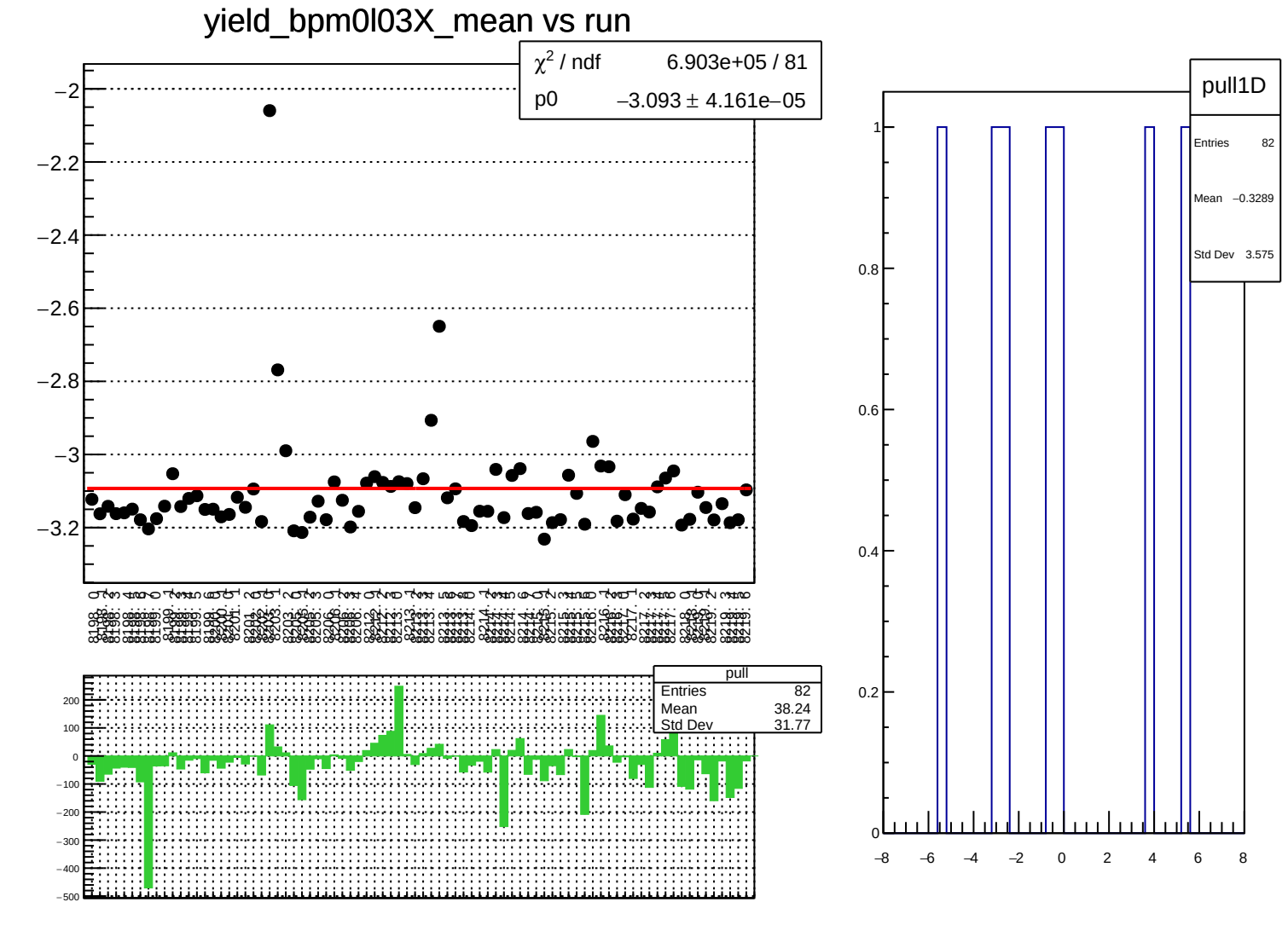

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

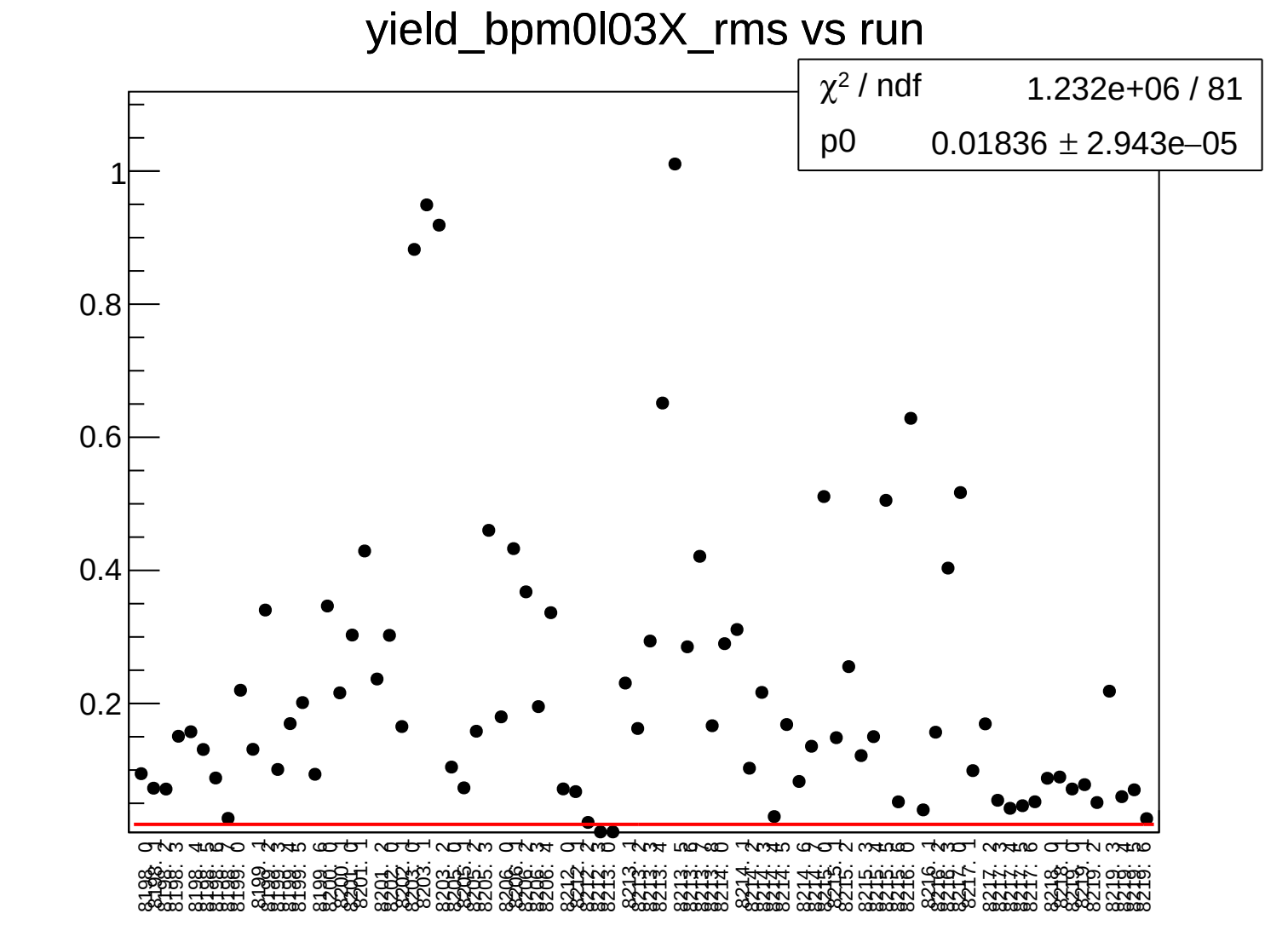

yield_bpm0l02X_rms vs run
χ² / ndf 2.273e+04 / 81
p0 0.0205 ± 1.621e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

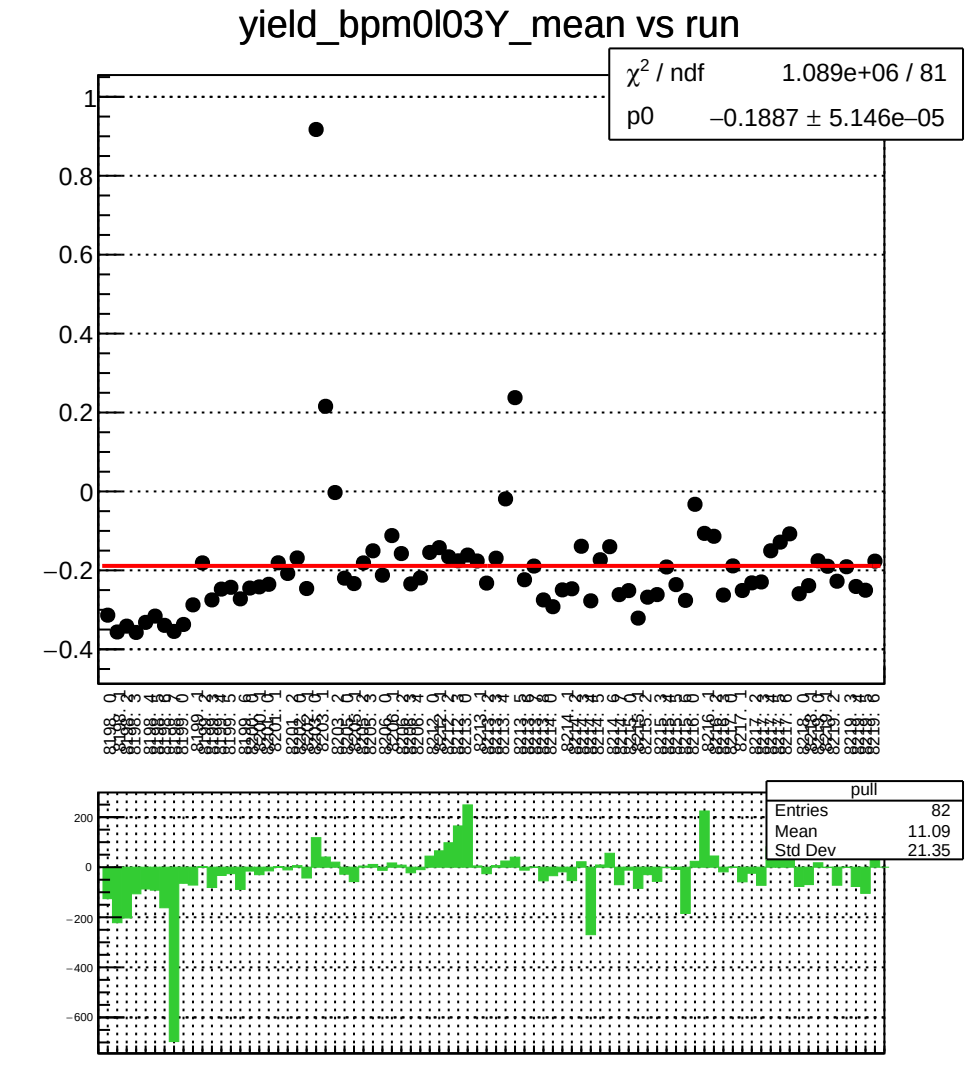

yield_bpm0l02Y_mean vs run
χ² / ndf 1.493e+07 / 81
p0 −1.053 ± 1.71e−05
−0.95
−1
−1.05
−1.1
−1.15
pull
Entries 82
Mean 311.1
Std Dev 0
600
400
200
0
−200
−400
−600

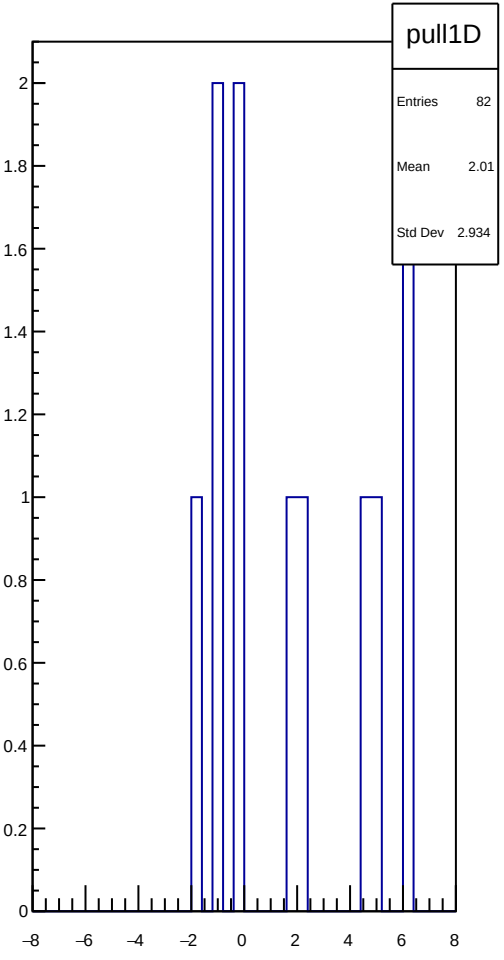

pull1D
Entries 82
Mean 0.3852
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

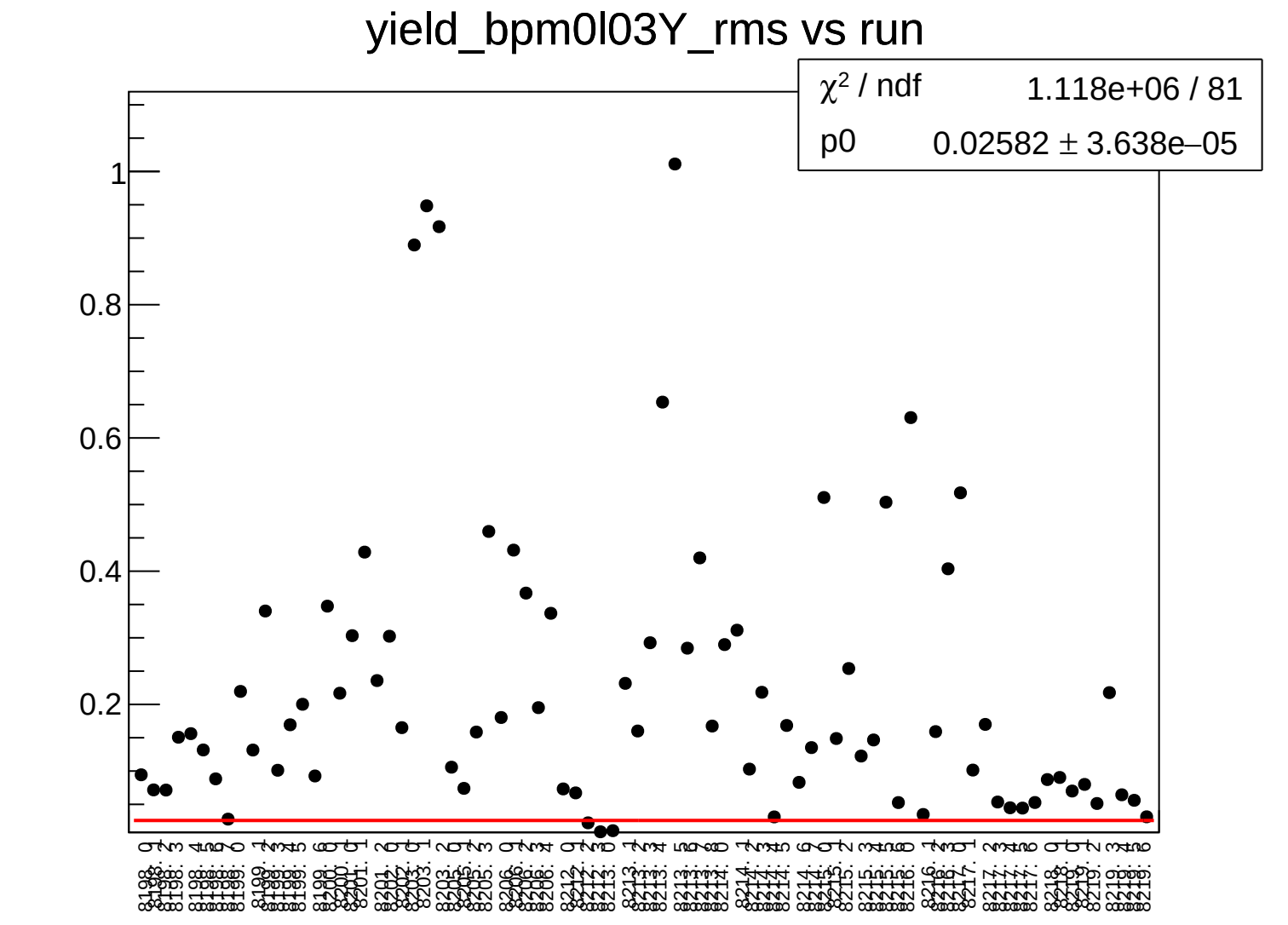

yield_bpm0l02Y_rms vs run
χ² / ndf 5.201e+04 / 81
p0 0.01515 ± 1.209e−05
0.03
0.025
0.02
0.015
0.01

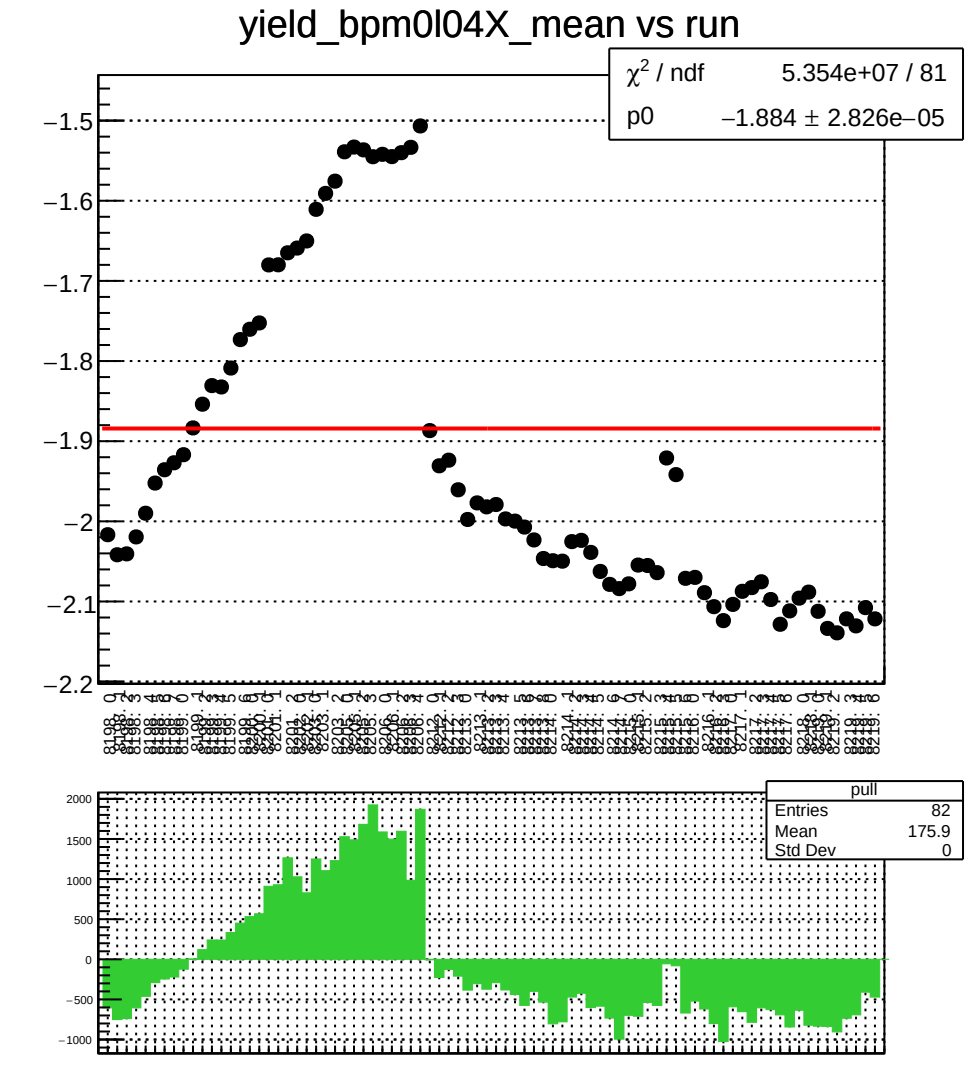

yield_bpm0l03X_mean vs run
χ² / ndf 6.903e+05 / 81
p0 −3.093 ± 4.161e−05
pull
Entries 82
Mean 38.24
Std Dev 31.77
pull1D
Entries 82
Mean −0.3289
Std Dev 3.575

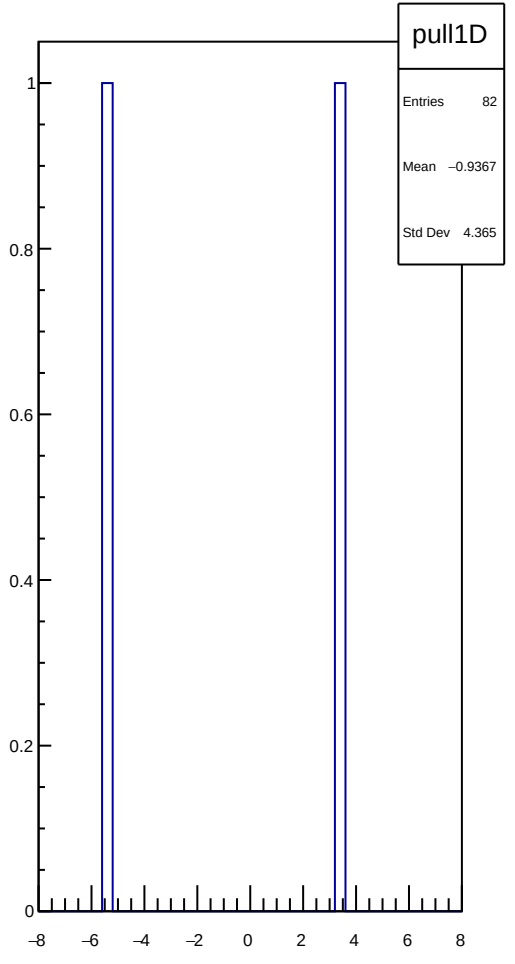

yield_bpm0l03X_rms vs run
χ² / ndf 1.232e+06 / 81
p0 0.01836 ± 2.943e−05
1
0.8
0.6
0.4
0.2

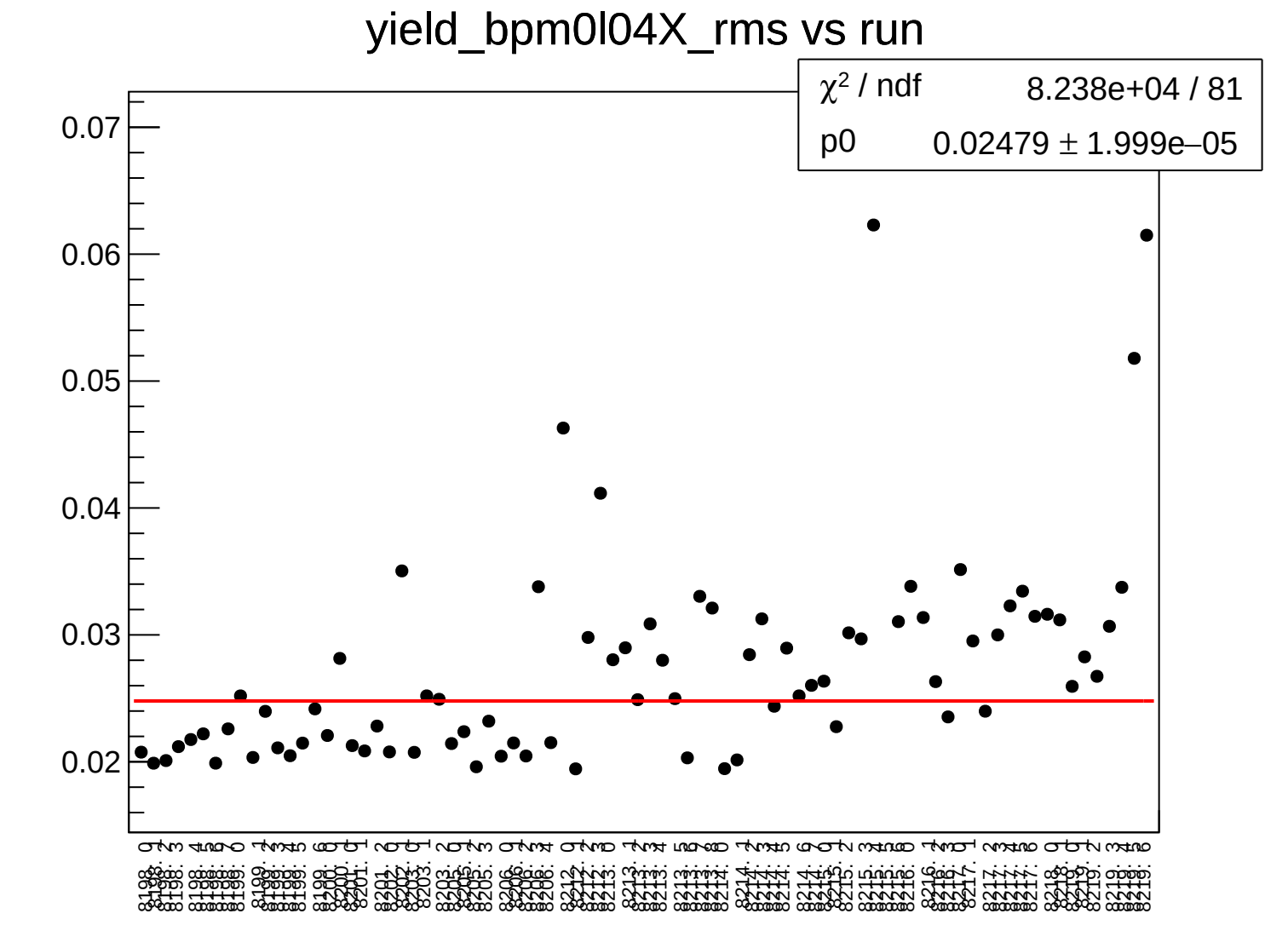

yield_bpm0l03Y_mean vs run
χ² / ndf 1.089e+06 / 81
p0 −0.1887 ± 5.146e−05
pull
Entries 82
Mean 11.09
Std Dev 21.35

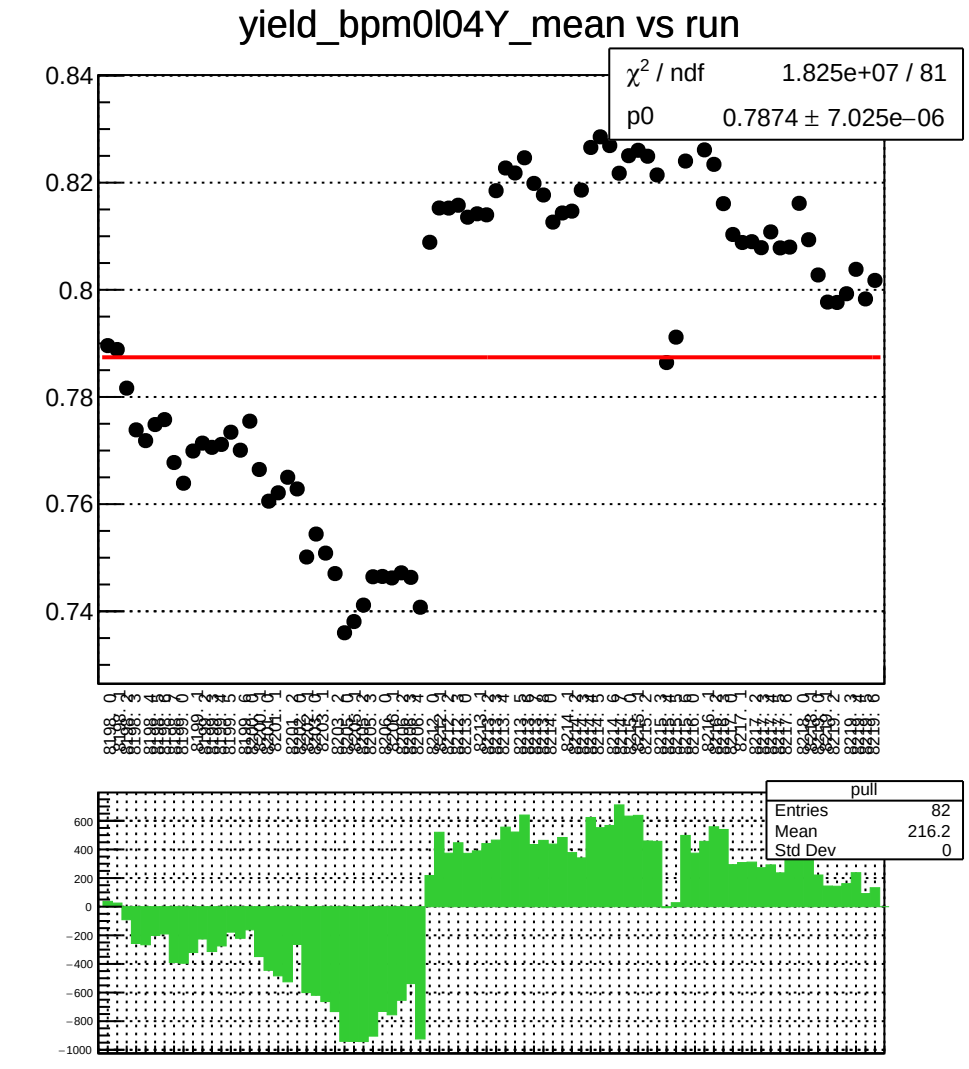

pull1D
Entries 82
Mean 2.01
Std Dev 2.934

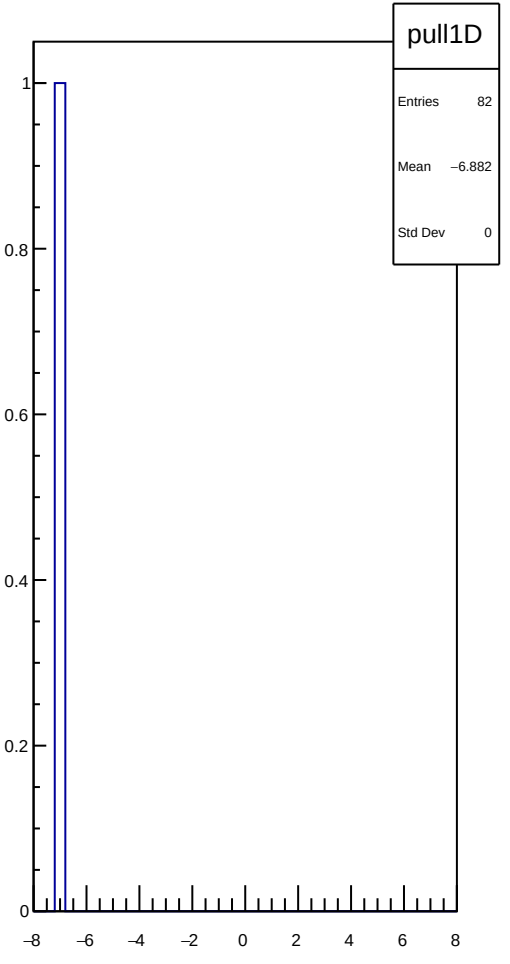

yield_bpm0l03Y_rms vs run
χ² / ndf 1.118e+06 / 81
p0 0.02582 ± 3.638e–05
1
0.8
0.6
0.4
0.2

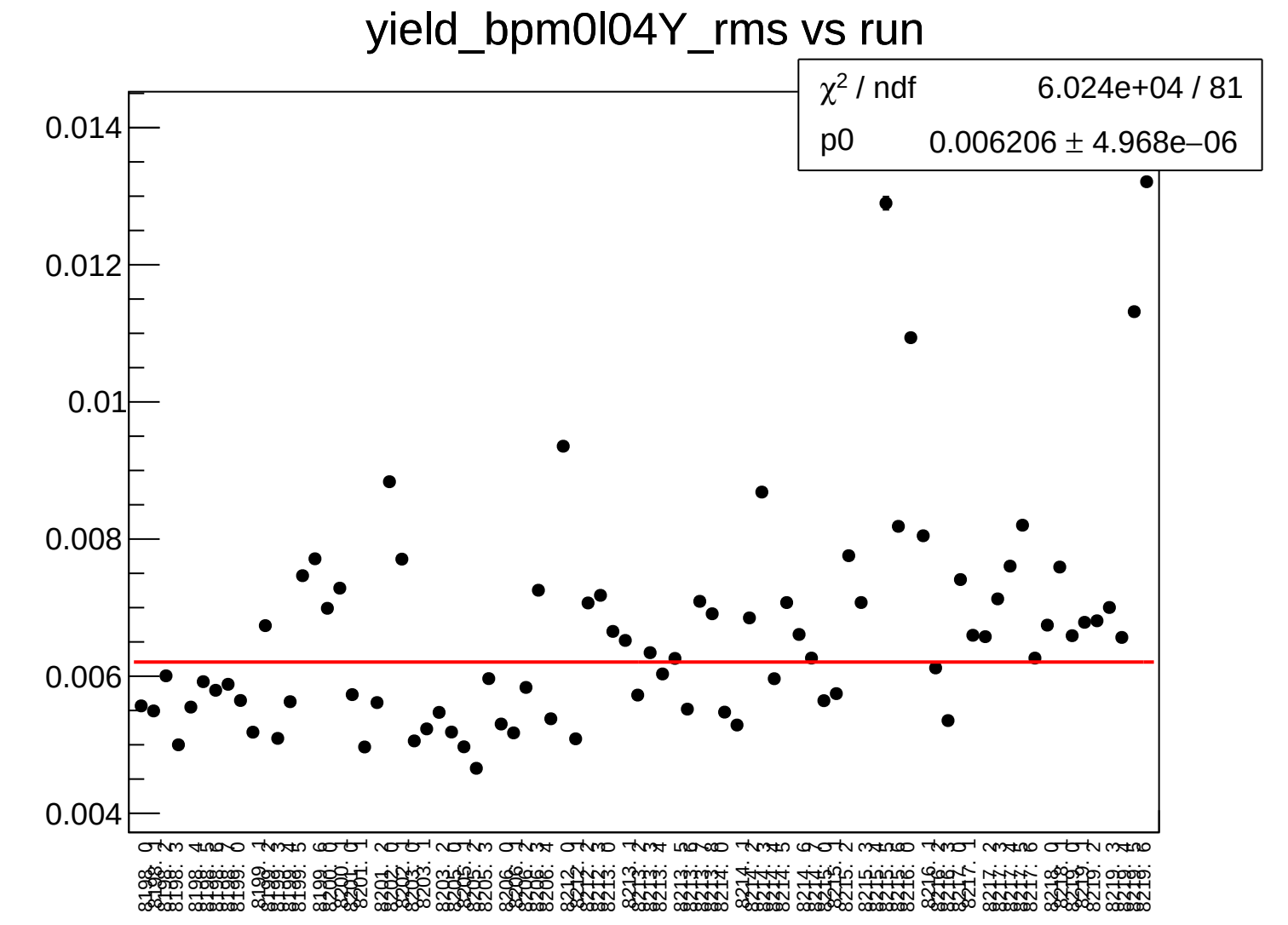

yield_bpm0l04X_mean vs run
χ² / ndf 5.354e+07 / 81
p0 −1.884 ± 2.826e−05
−1.5
−1.6
−1.7
−1.8
−1.9
−2
−2.1
−2.2
pull
Entries 82
Mean 175.9
Std Dev 0
2000
1500
1000
500
0
−500
−1000

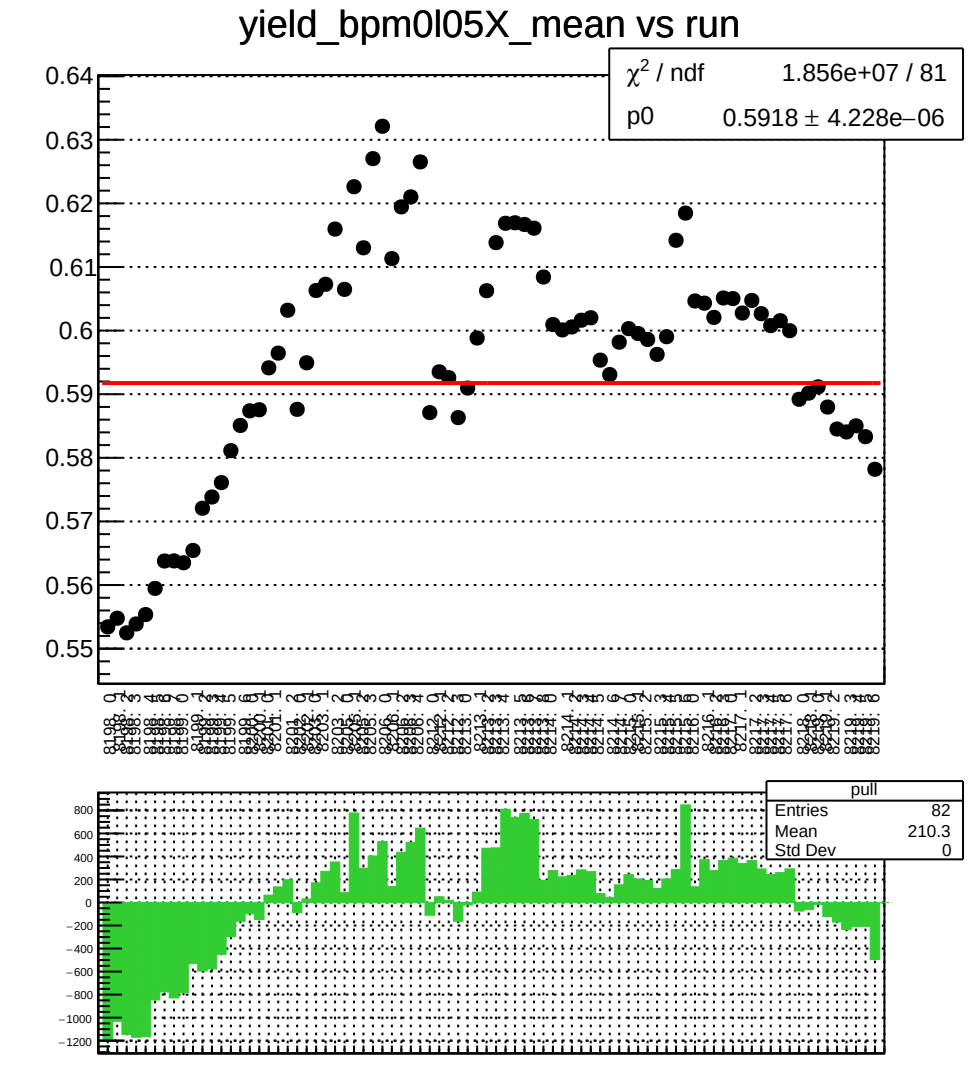

pull1D
Entries 82
Mean −0.9367
Std Dev 4.365
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

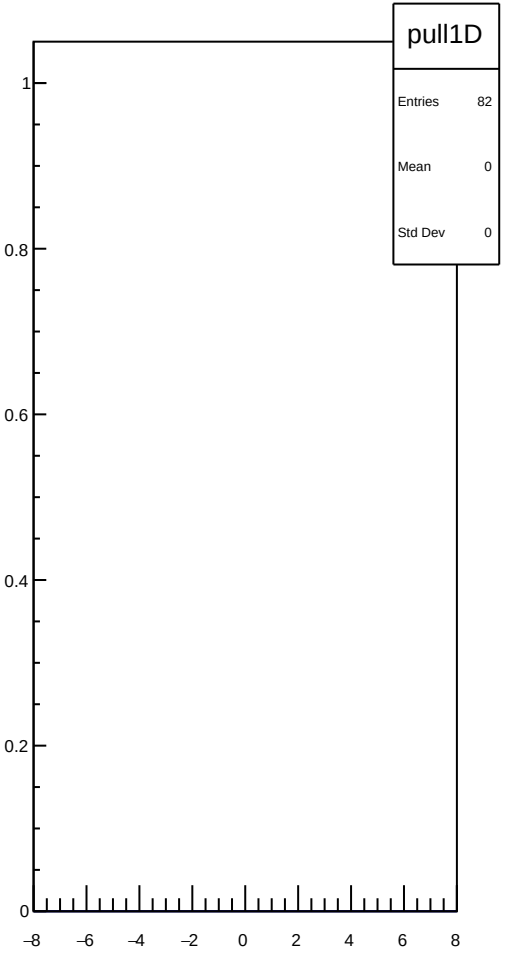

yield_bpm0l04X_rms vs run
χ² / ndf 8.238e+04 / 81
p0 0.02479 ± 1.999e−05
0.07
0.06
0.05
0.04
0.03
0.02

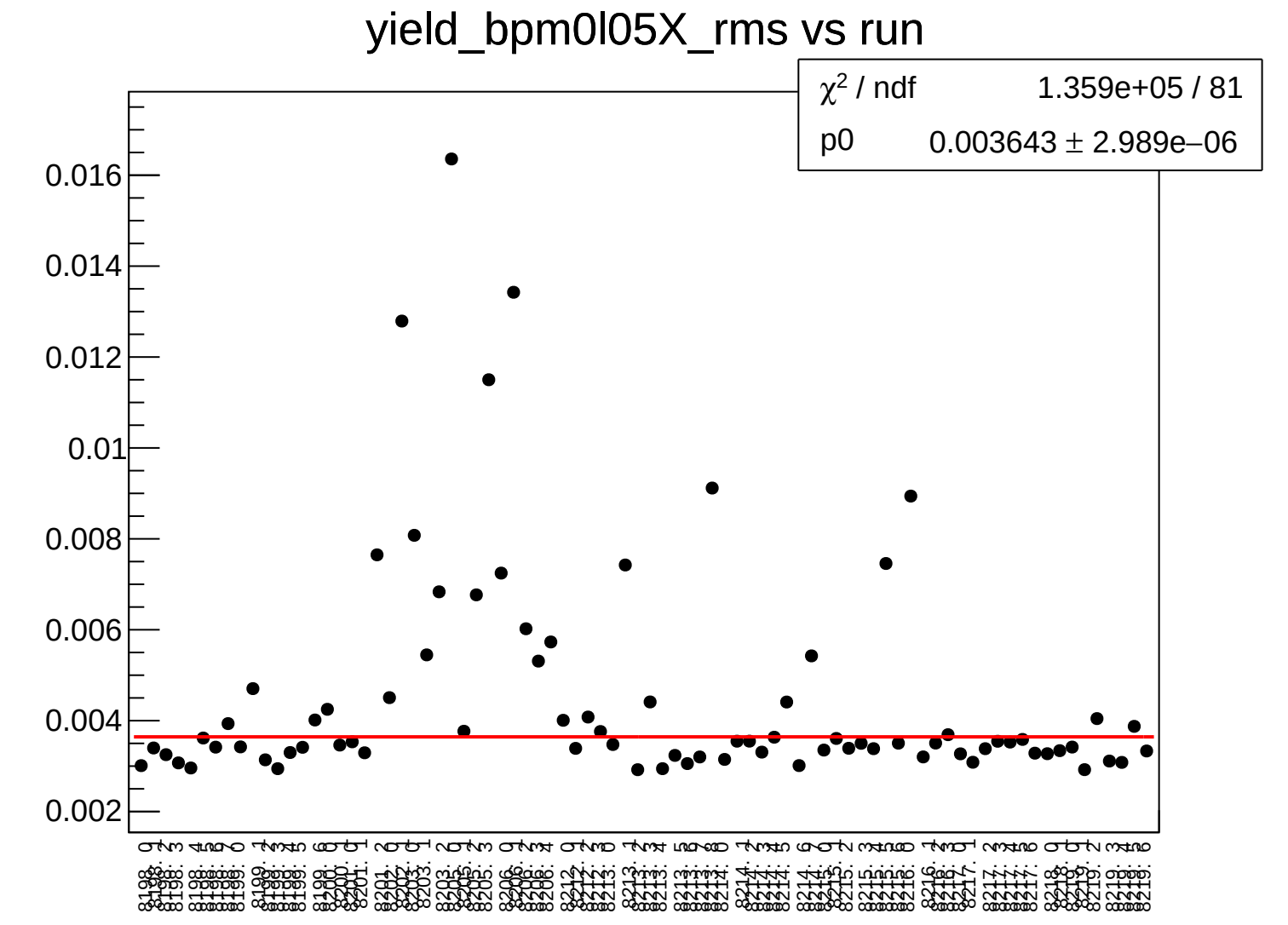

yield_bpm0l04Y_mean vs run
χ² / ndf 1.825e+07 / 81
p0 0.7874 ± 7.025e−06
0.84
0.82
0.8
0.78
0.76
0.74
pull
Entries 82
Mean 216.2
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

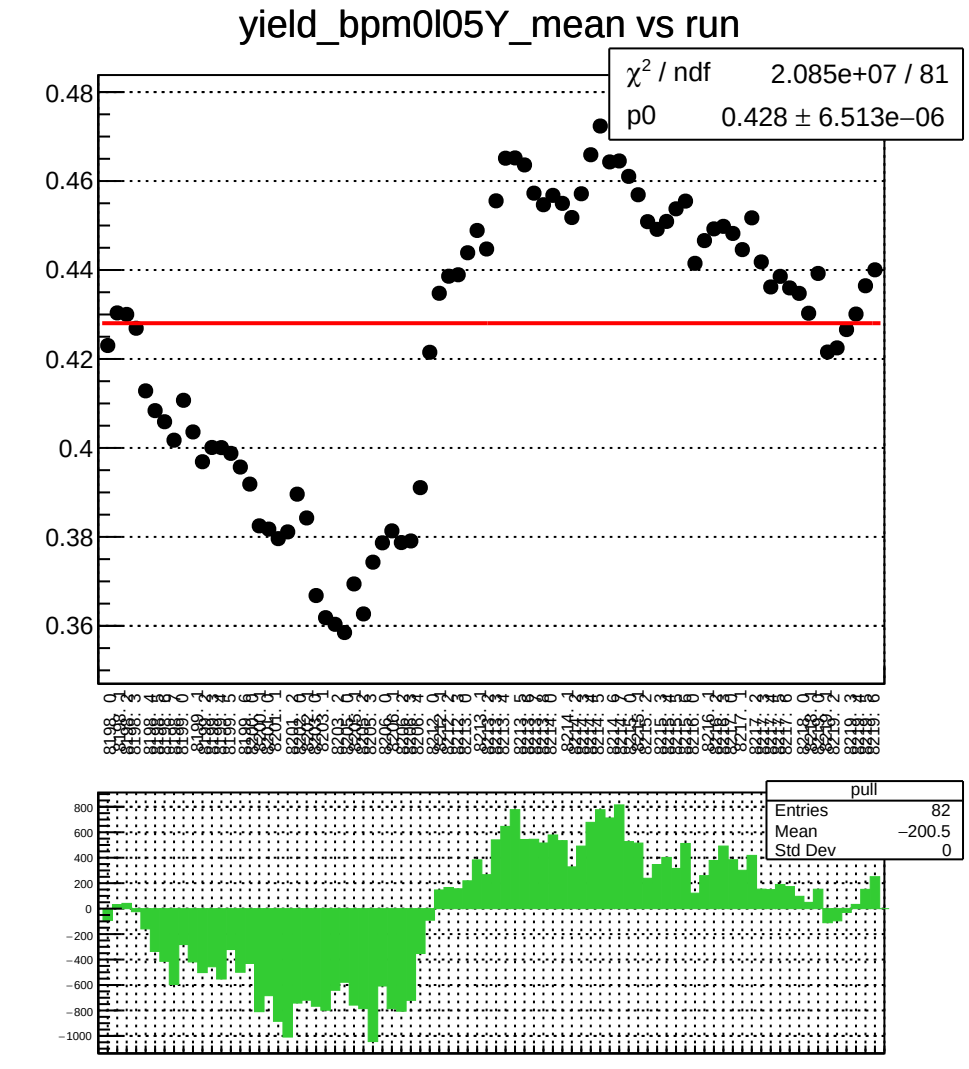

pull1D
Entries 82
Mean −6.882
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

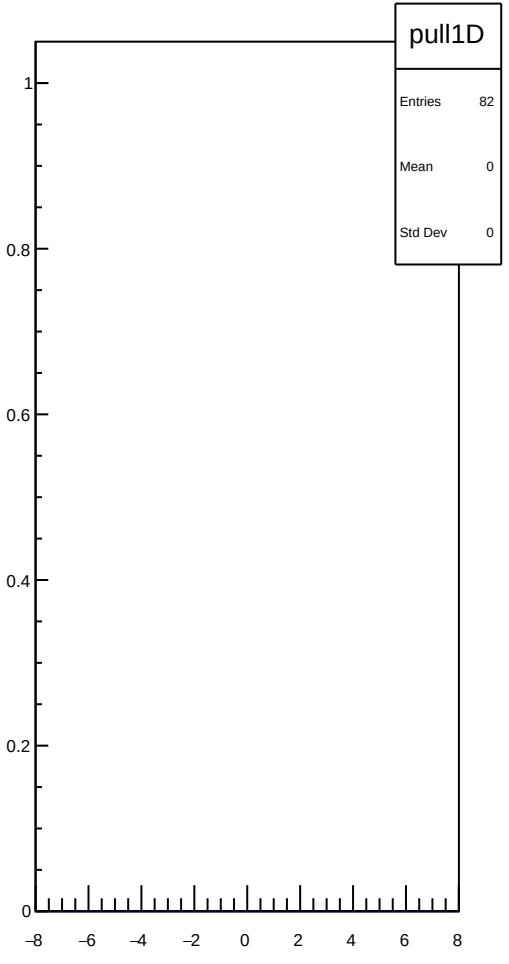

yield_bpm0l04Y_rms vs run
χ² / ndf 6.024e+04 / 81
p0 0.006206 ± 4.968e−06
0.014
0.012
0.01
0.008
0.006
0.004

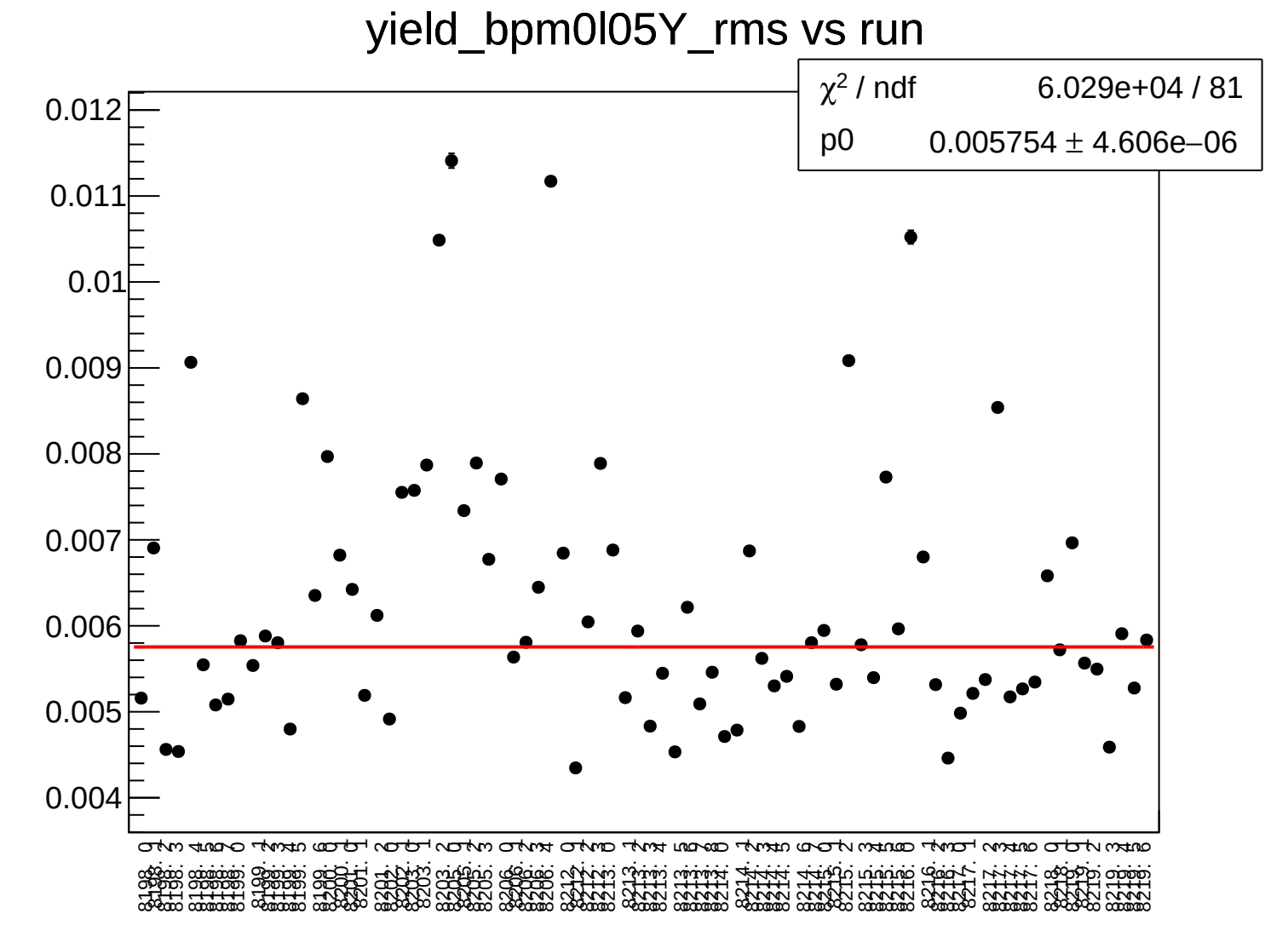

yield_bpm0l05X_mean vs run
χ² / ndf 1.856e+07 / 81
p0 0.5918 ± 4.228e−06
pull
Entries 82
Mean 210.3
Std Dev 0

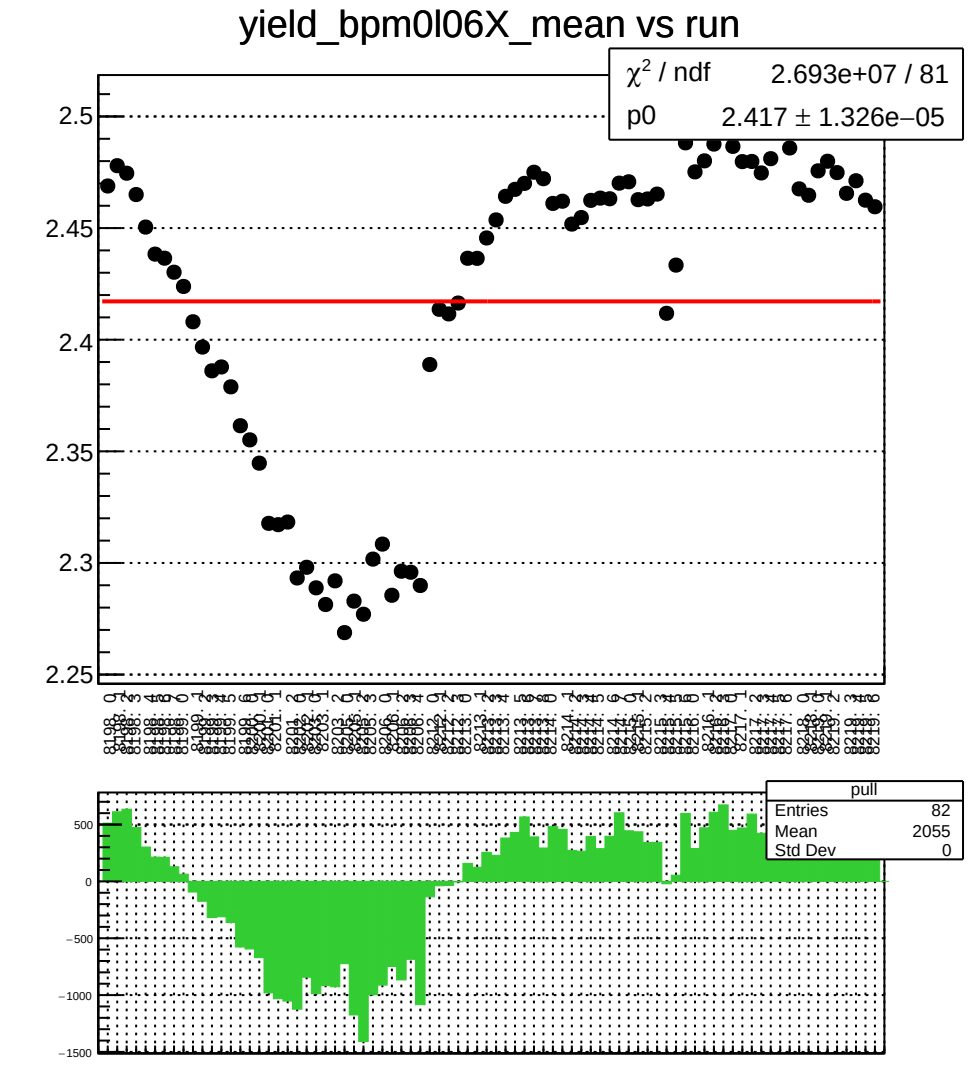

pull1D
Entries 82
Mean 0
Std Dev 0

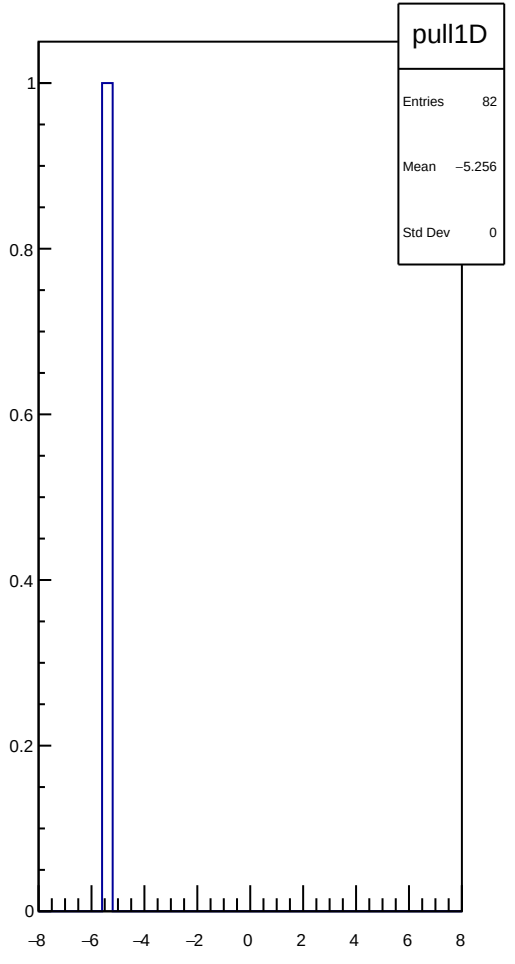

yield_bpm0l05X_rms vs run
$\chi^2$ / ndf 1.359e+05 / 81
p0 0.003643 ± 2.989e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

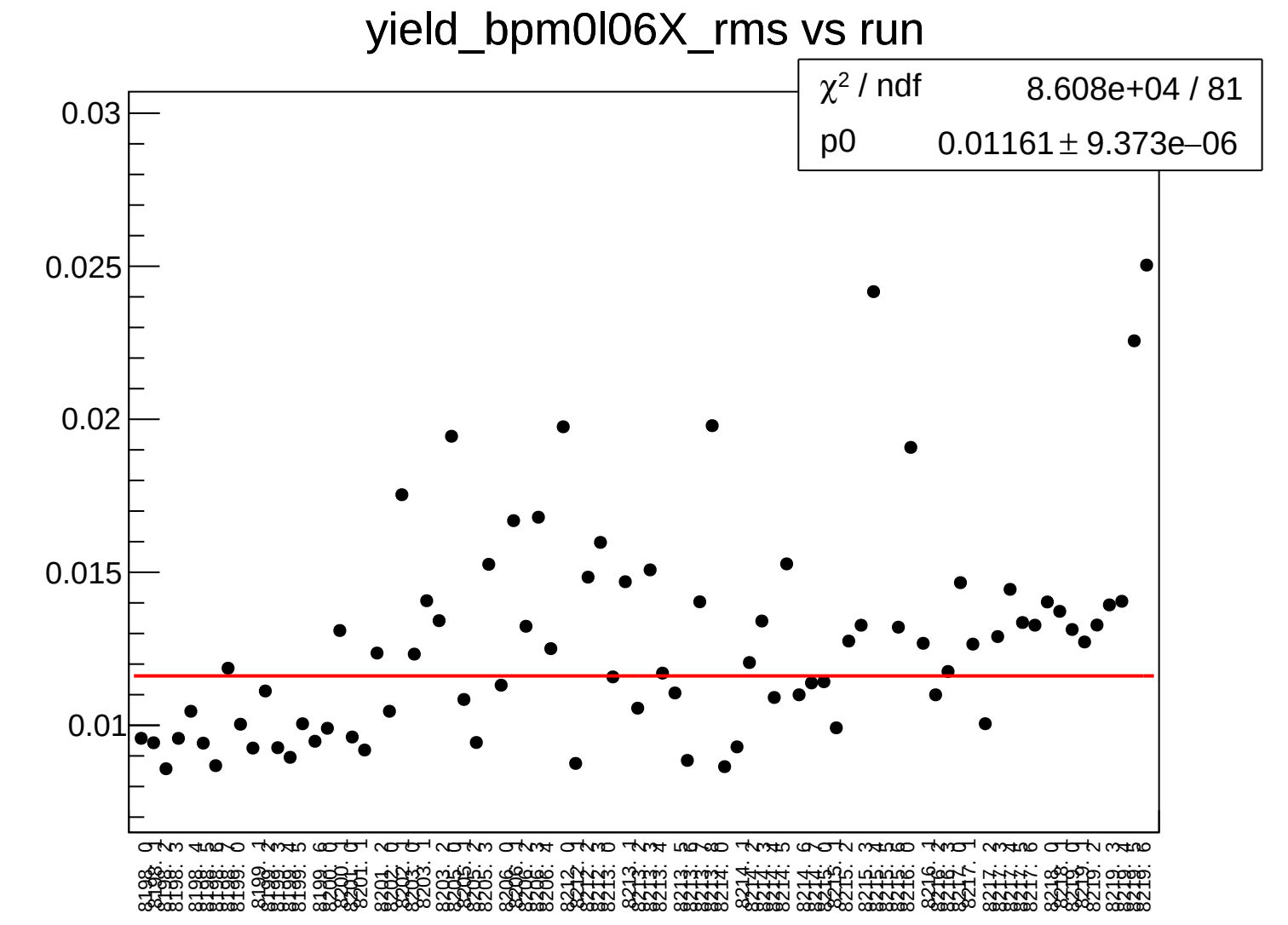

yield_bpm0l05Y_mean vs run
χ² / ndf 2.085e+07 / 81
p0 0.428 ± 6.513e−06
0.48
0.46
0.44
0.42
0.4
0.38
0.36
pull
Entries 82
Mean −200.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

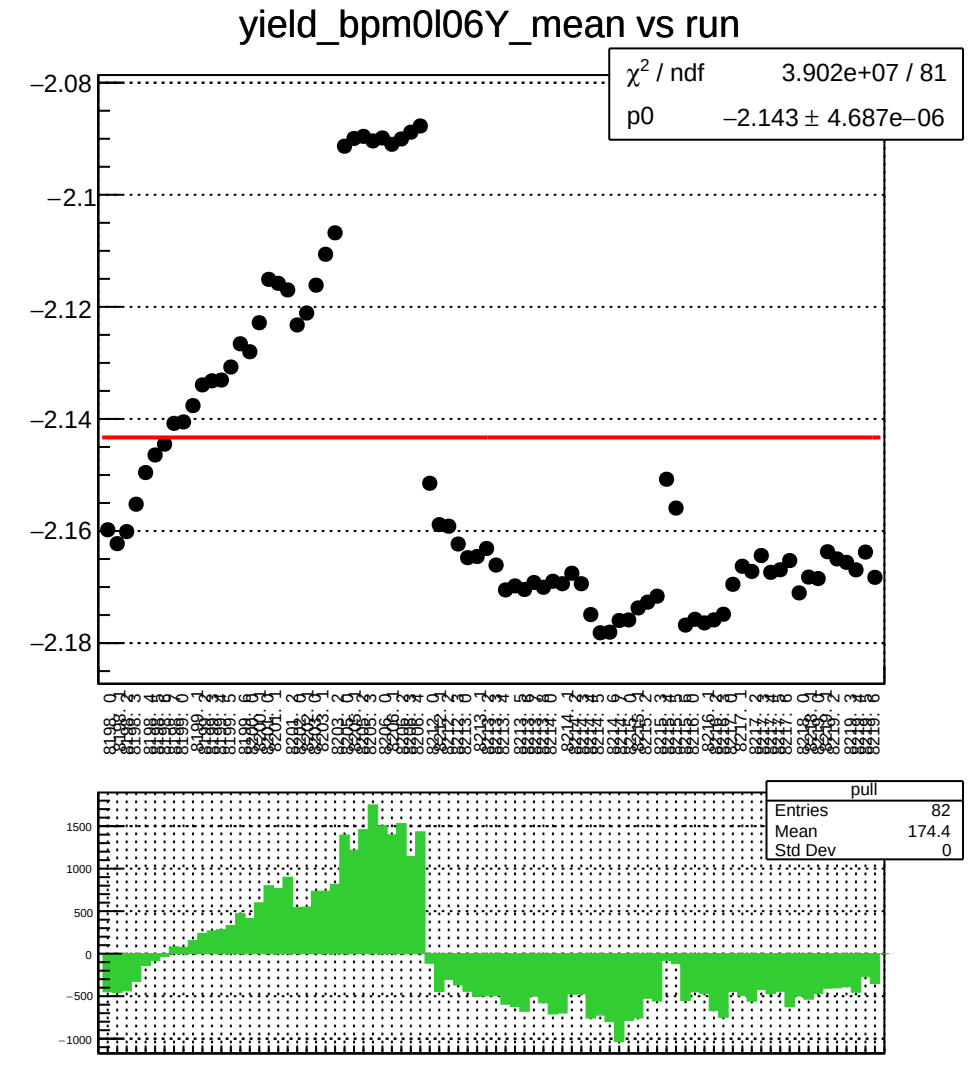

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

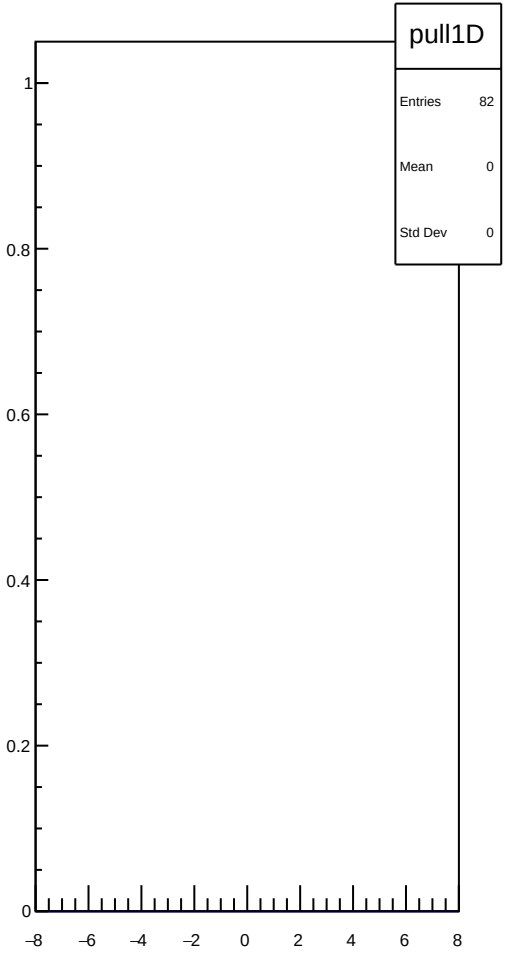

yield_bpm0l05Y_rms vs run
χ² / ndf 6.029e+04 / 81
p0 0.005754 ± 4.606e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

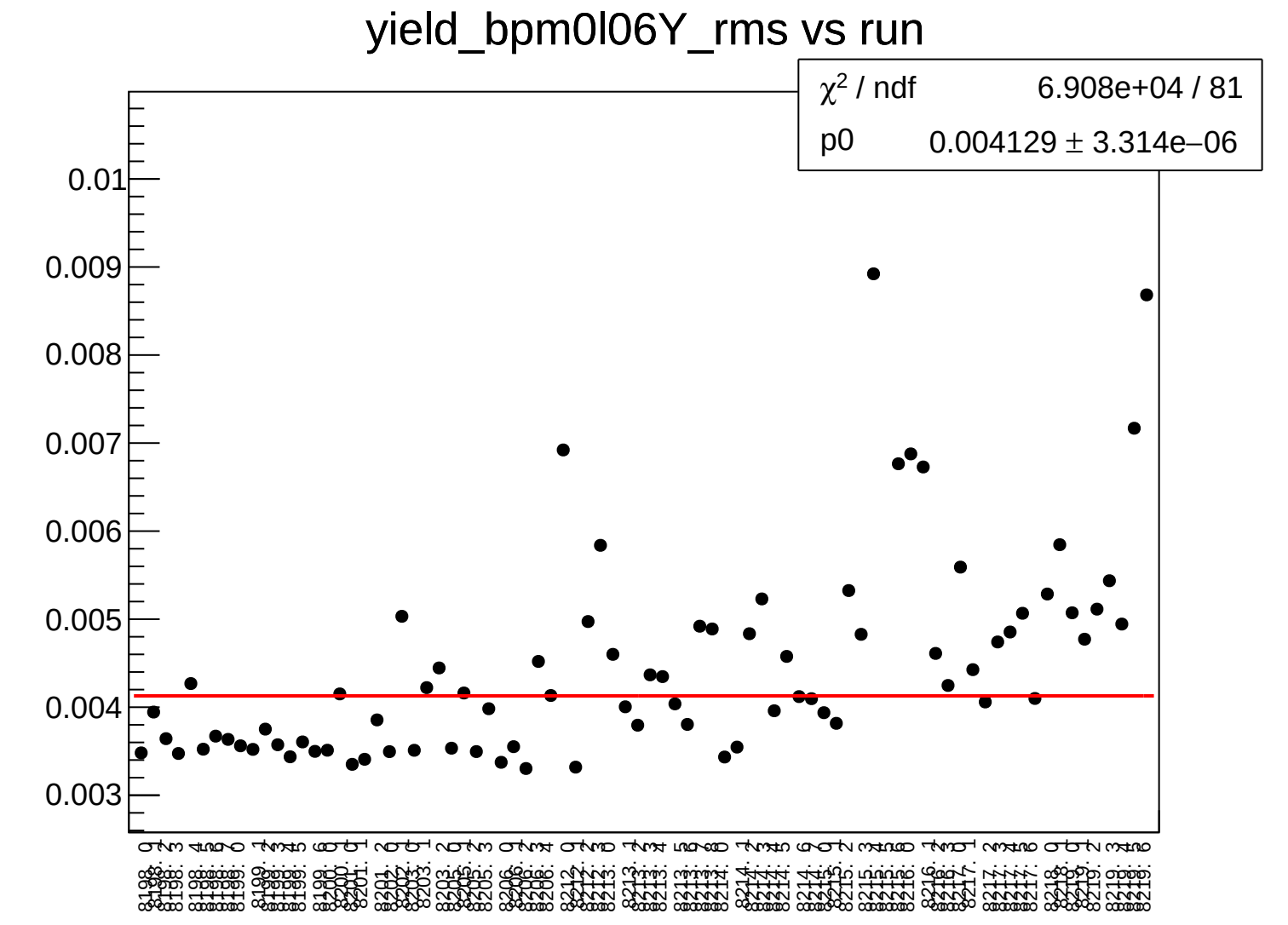

yield_bpm0l06X_mean vs run
χ² / ndf 2.693e+07 / 81
p0 2.417 ± 1.326e−05
2.5
2.45
2.4
2.35
2.3
2.25
pull
Entries 82
Mean 2055
Std Dev 0
500
0
−500
−1000
−1500

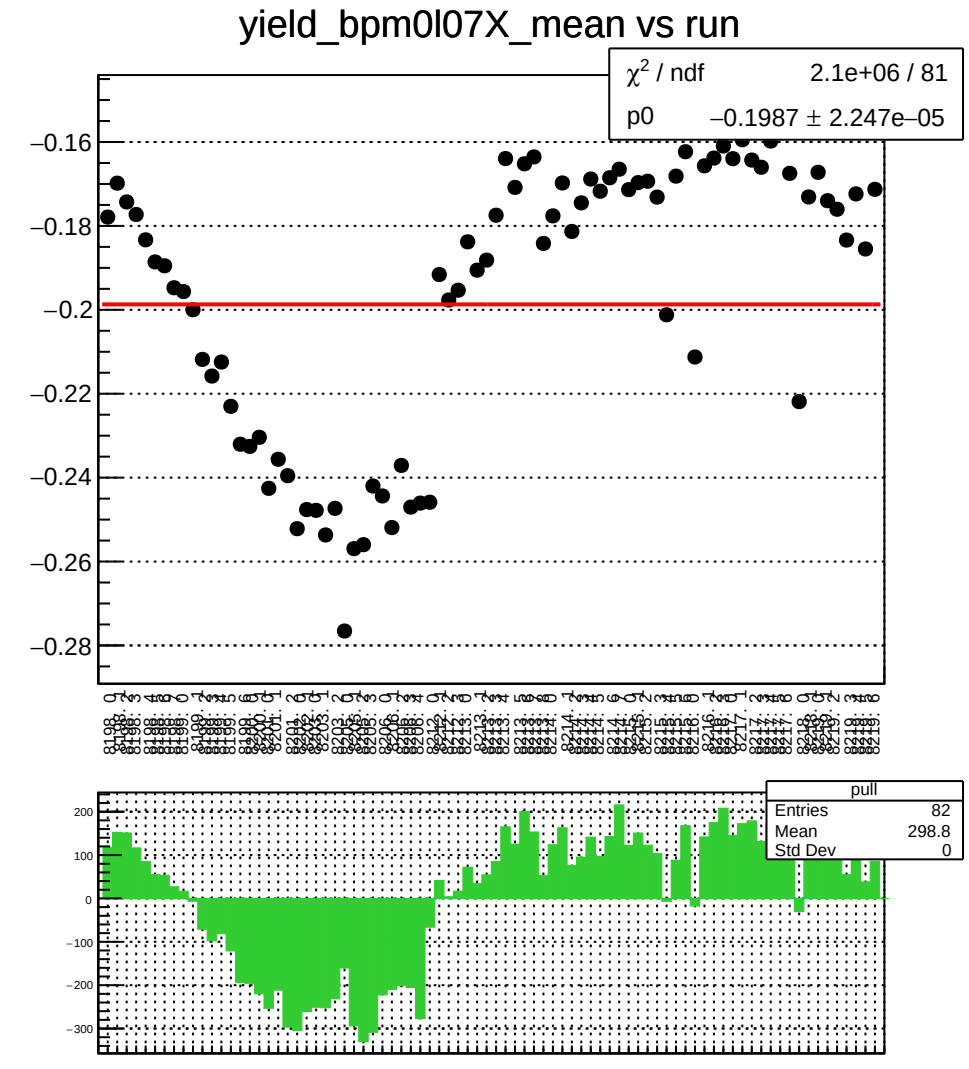

pull1D
Entries 82
Mean −5.256
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

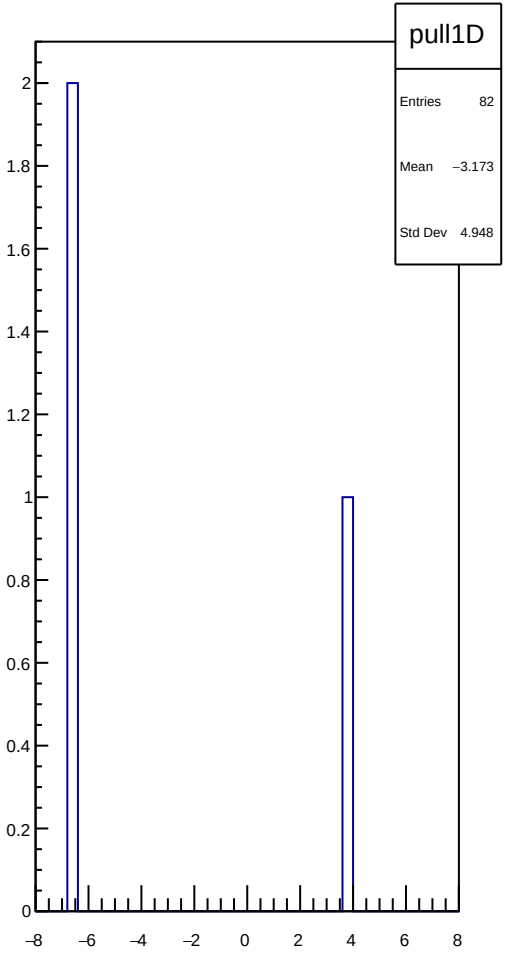

yield_bpm0l06X_rms vs run
χ² / ndf 8.608e+04 / 81
p0 0.01161 ± 9.373e–06
0.03
0.025
0.02
0.015
0.01

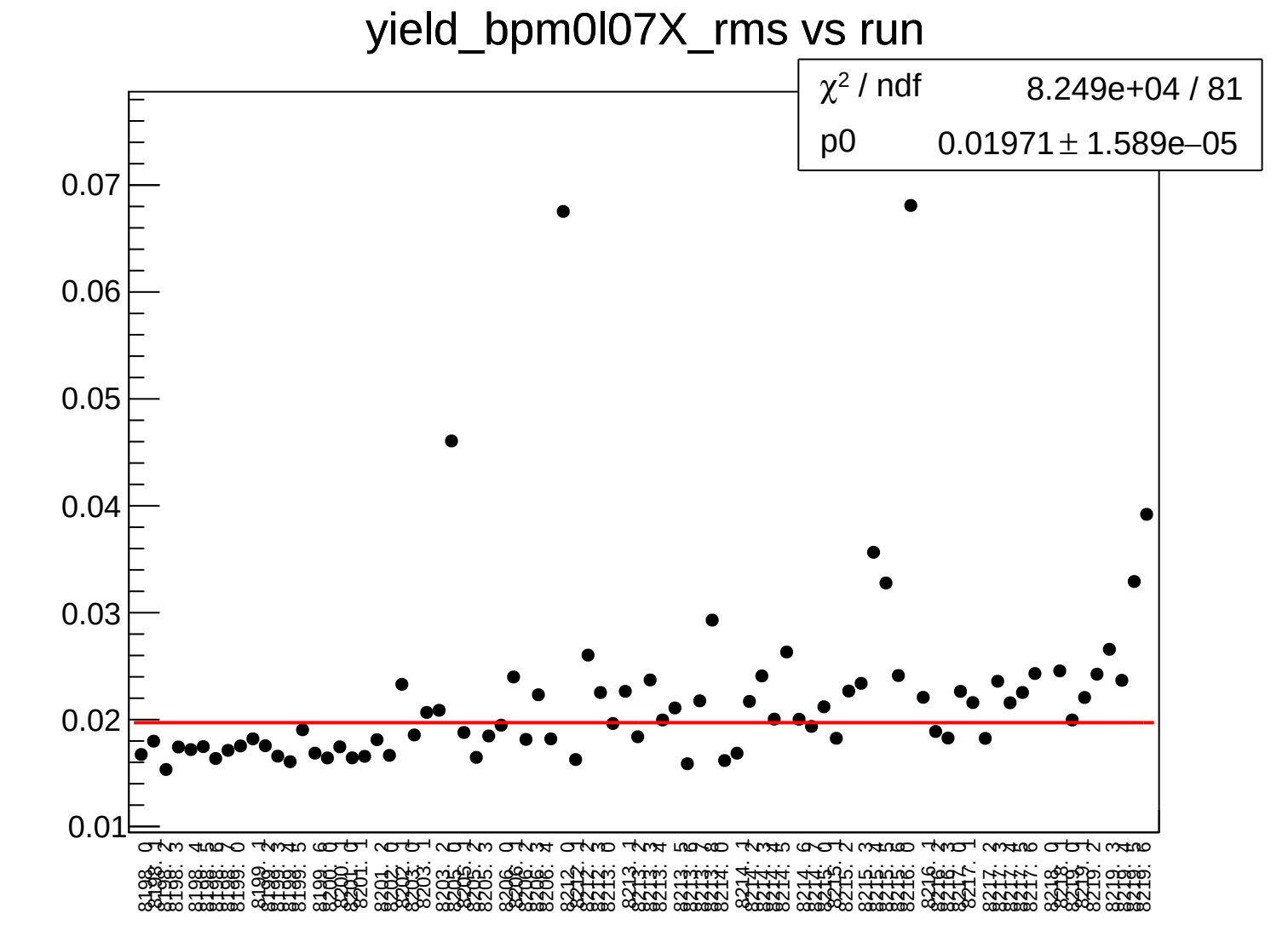

yield_bpm0l06Y_mean vs run
χ² / ndf 3.902e+07 / 81
p0 −2.143 ± 4.687e−06
−2.08
−2.1
−2.12
−2.14
−2.16
−2.18
pull
Entries 82
Mean 174.4
Std Dev 0
1500
1000
500
0
−500
−1000

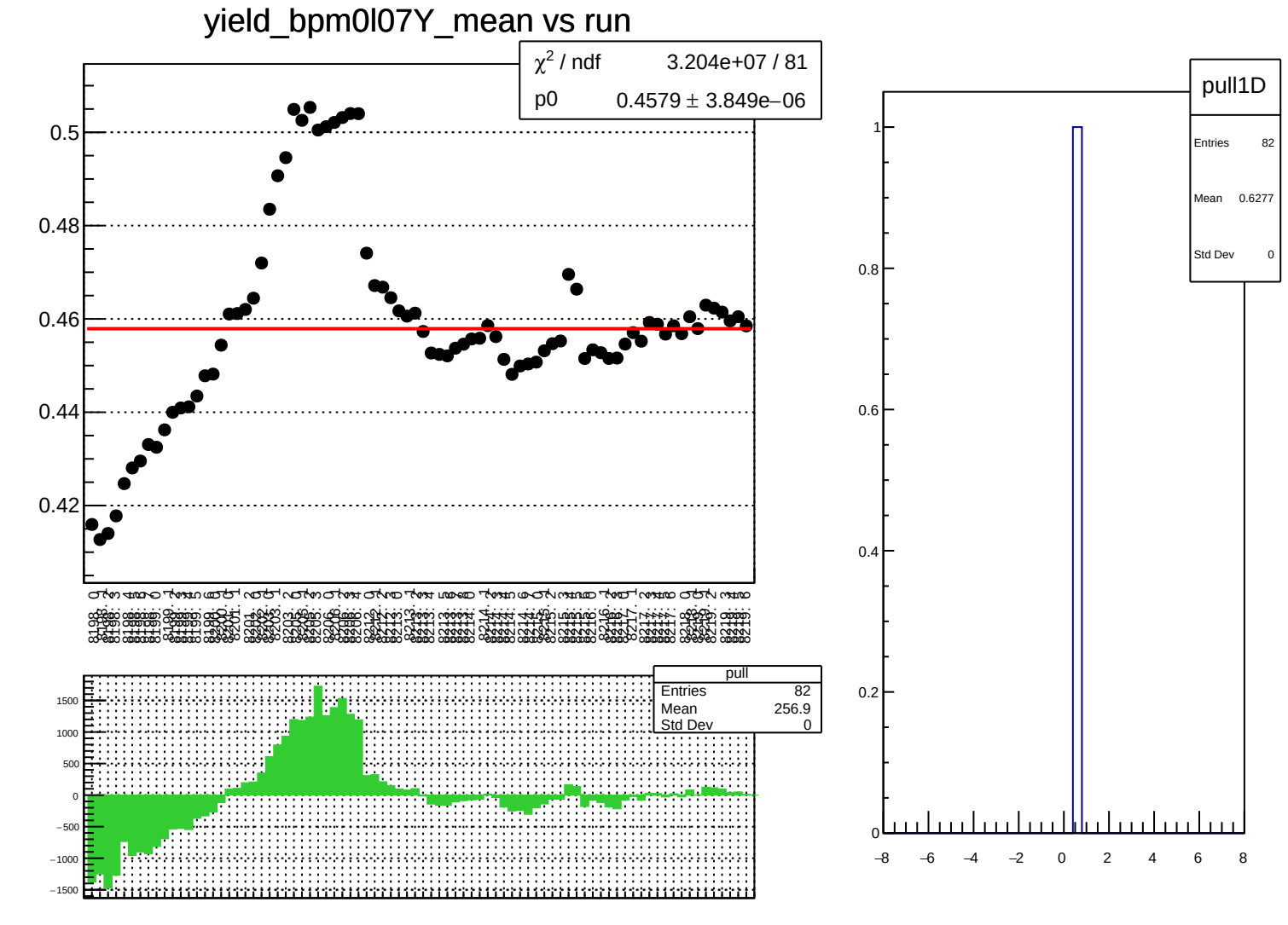

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l06Y_rms vs run
χ² / ndf 6.908e+04 / 81
p0 0.004129 ± 3.314e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

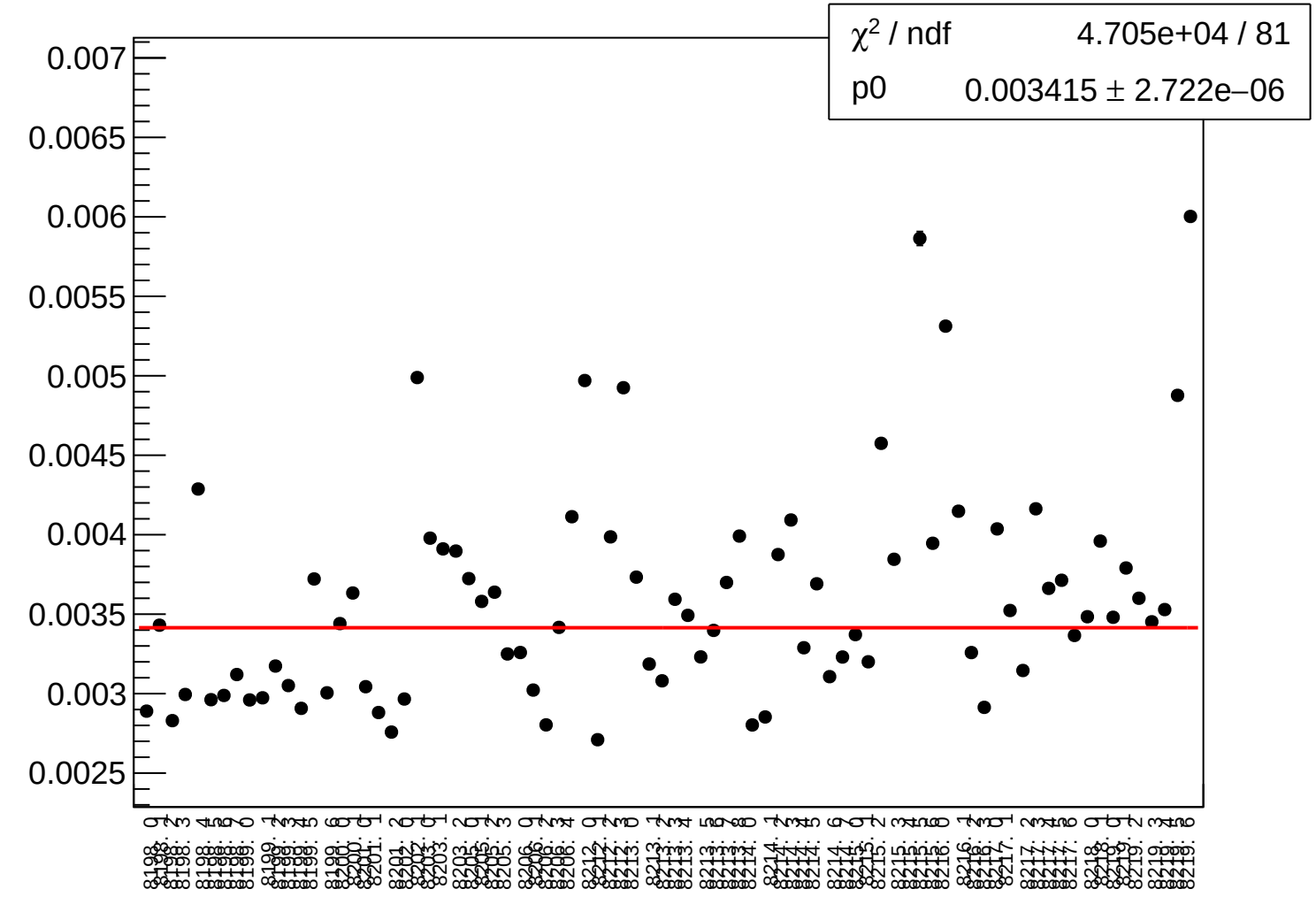

yield_bpm0l07X_mean vs run
χ² / ndf 2.1e+06 / 81
p0 −0.1987 ± 2.247e−05
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
pull
Entries 82
Mean 298.8
Std Dev 0
200
100
0
−100
−200
−300

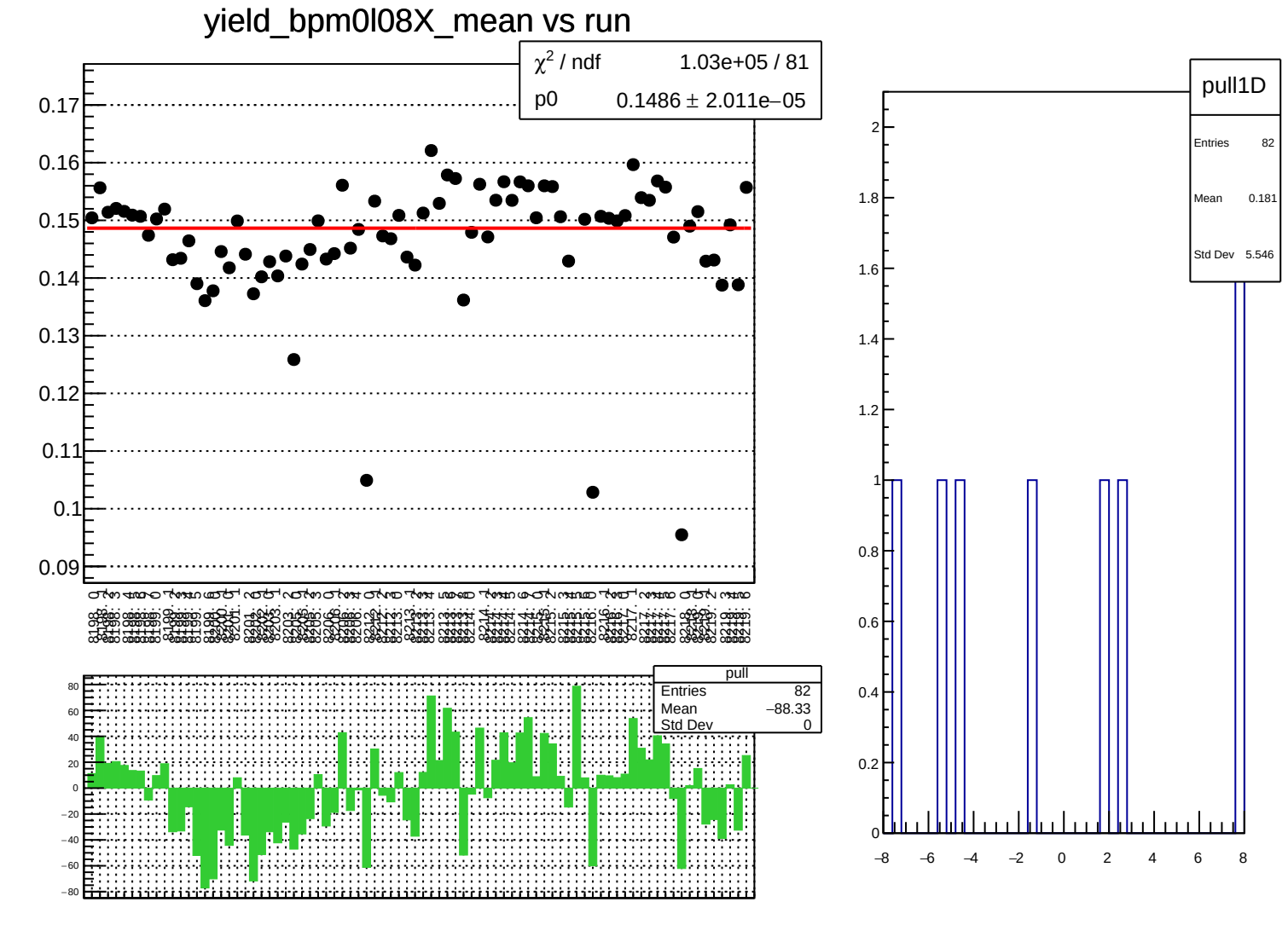

pull1D
Entries 82
Mean −3.173
Std Dev 4.948
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

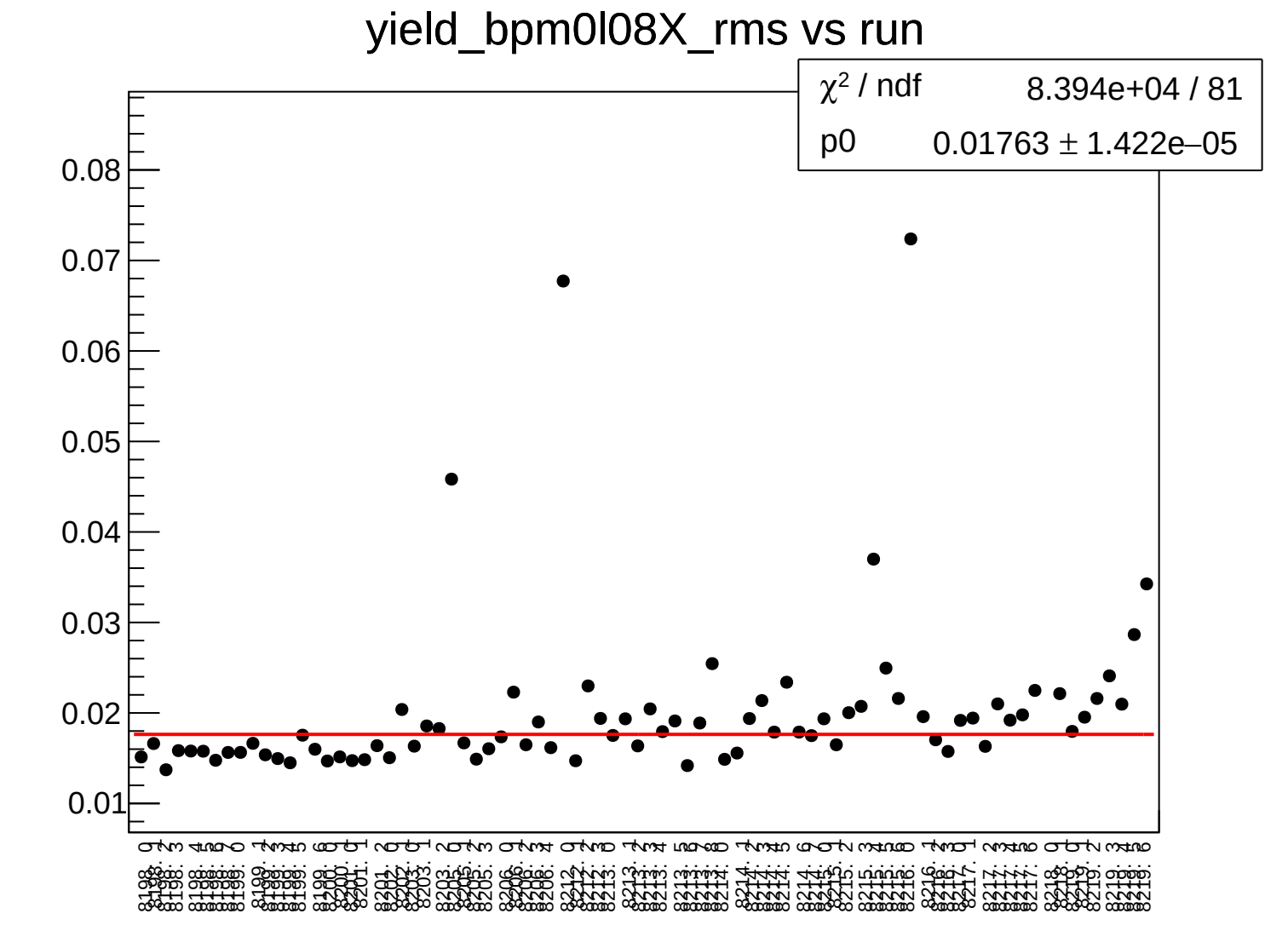

yield_bpm0l07X_rms vs run
χ² / ndf 8.249e+04 / 81
p0 0.01971 ± 1.589e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

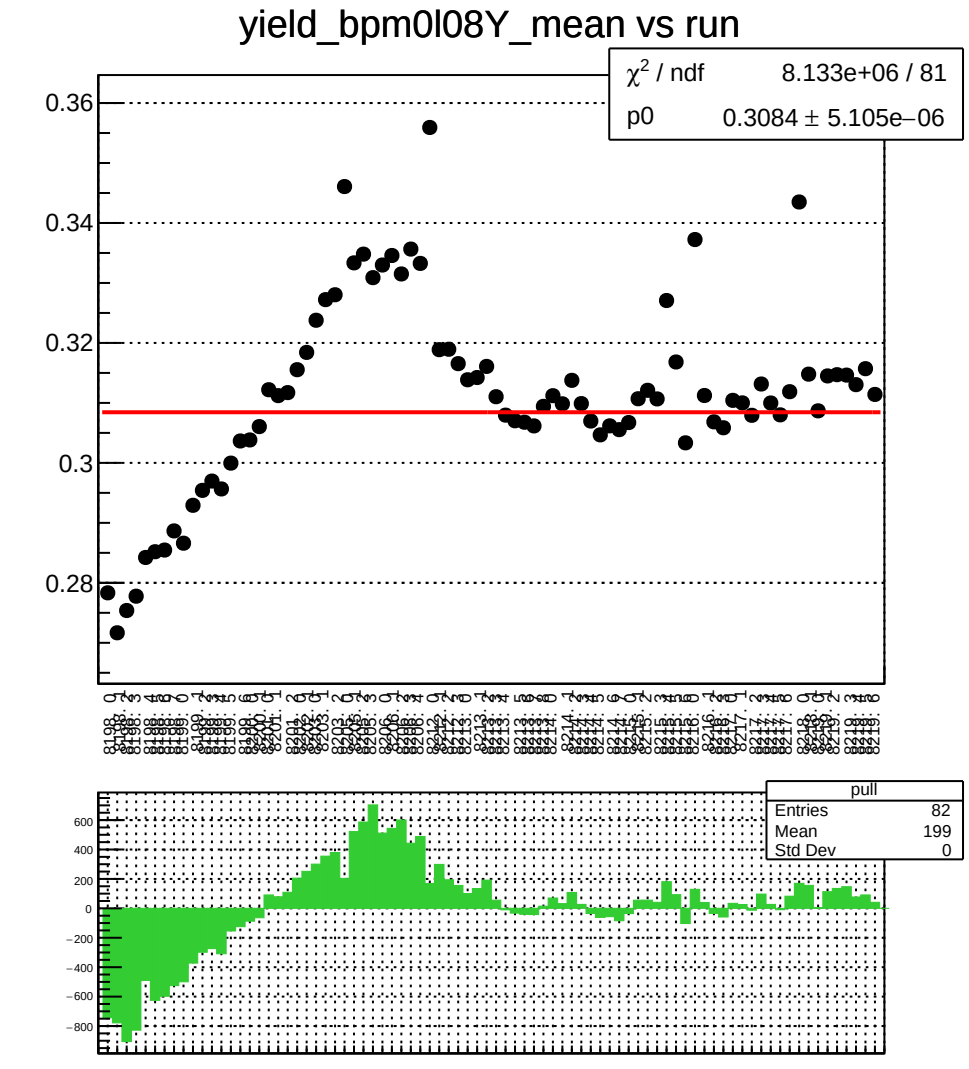

yield_bpm0l07Y_mean vs run
χ² / ndf 3.204e+07 / 81
p0 0.4579 ± 3.849e−06
0.5
0.48
0.46
0.44
0.42
pull
Entries 82
Mean 256.9
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 82
Mean 0.6277
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

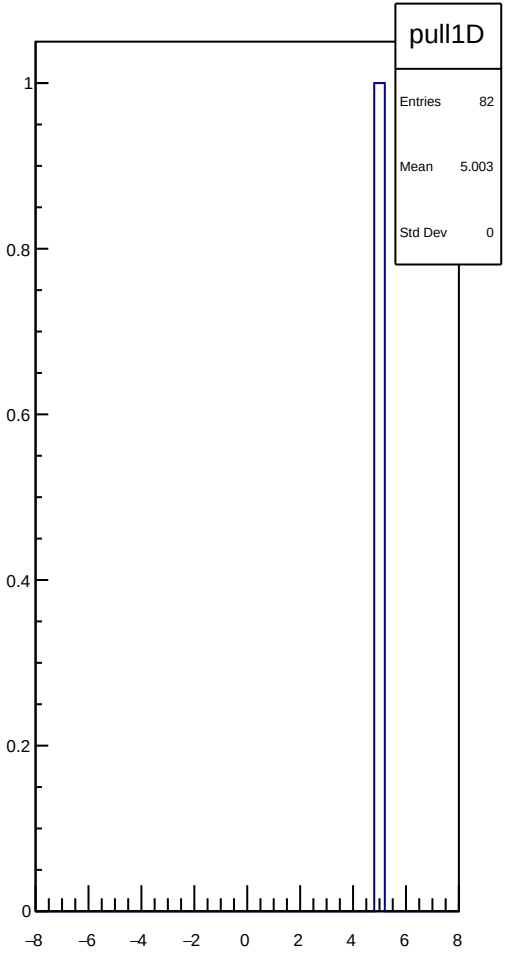
# yield_bpm0l07Y_rms vs run

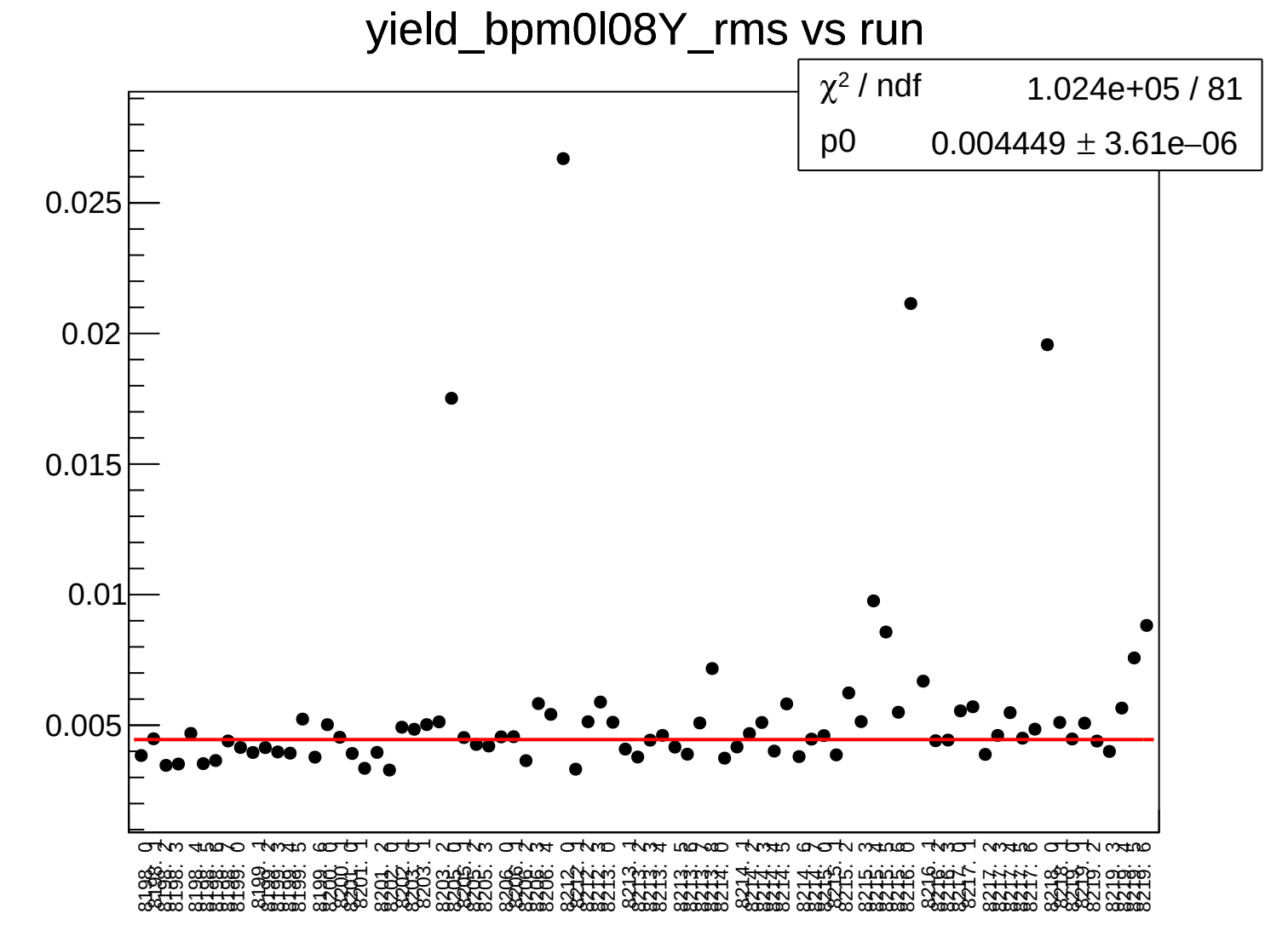


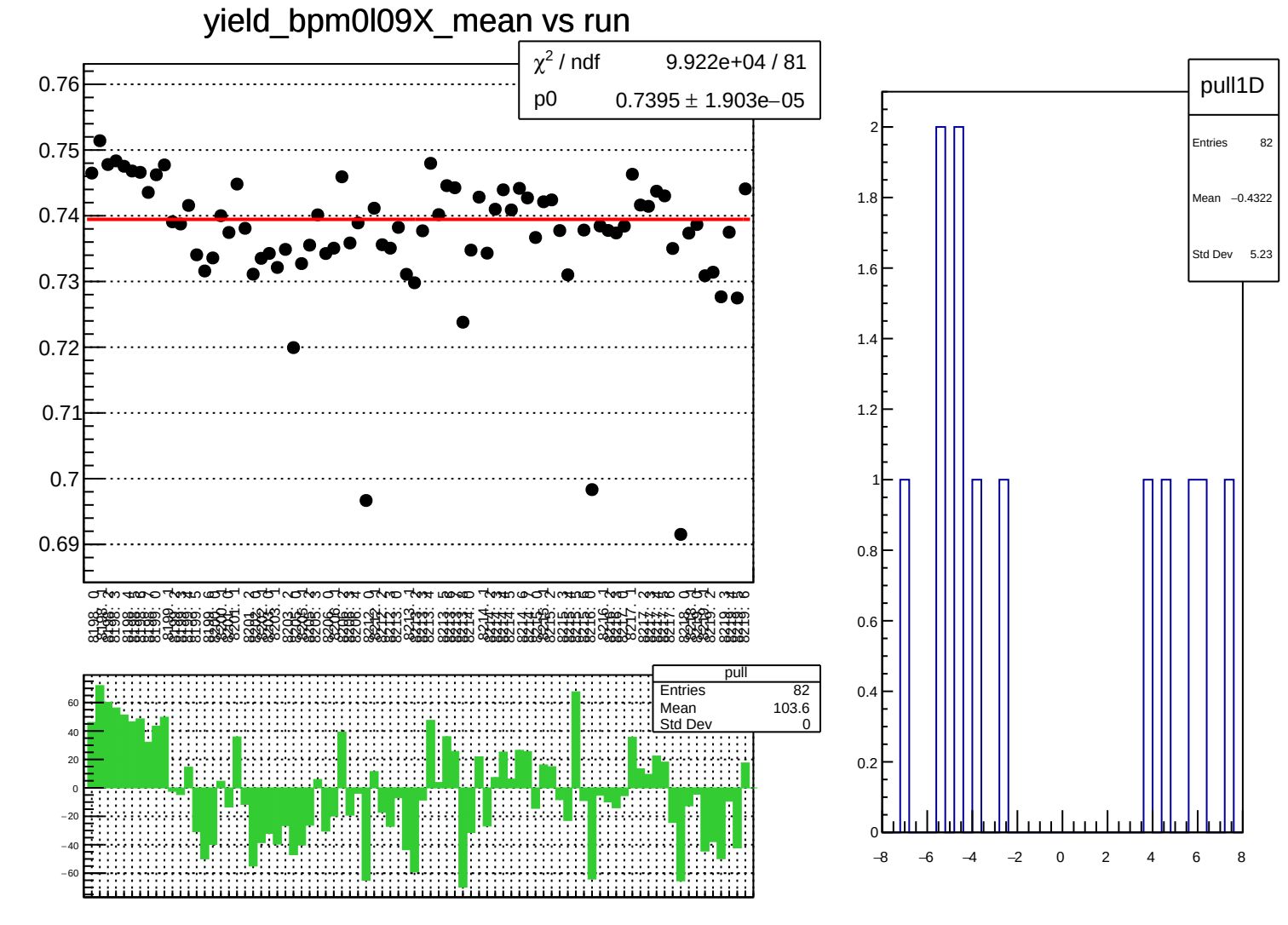

yield_bpm0l08X_mean vs run
χ² / ndf 1.03e+05 / 81
p0 0.1486 ± 2.011e−05
pull
Entries 82
Mean −88.33
Std Dev 0
pull1D
Entries 82
Mean 0.181
Std Dev 5.546

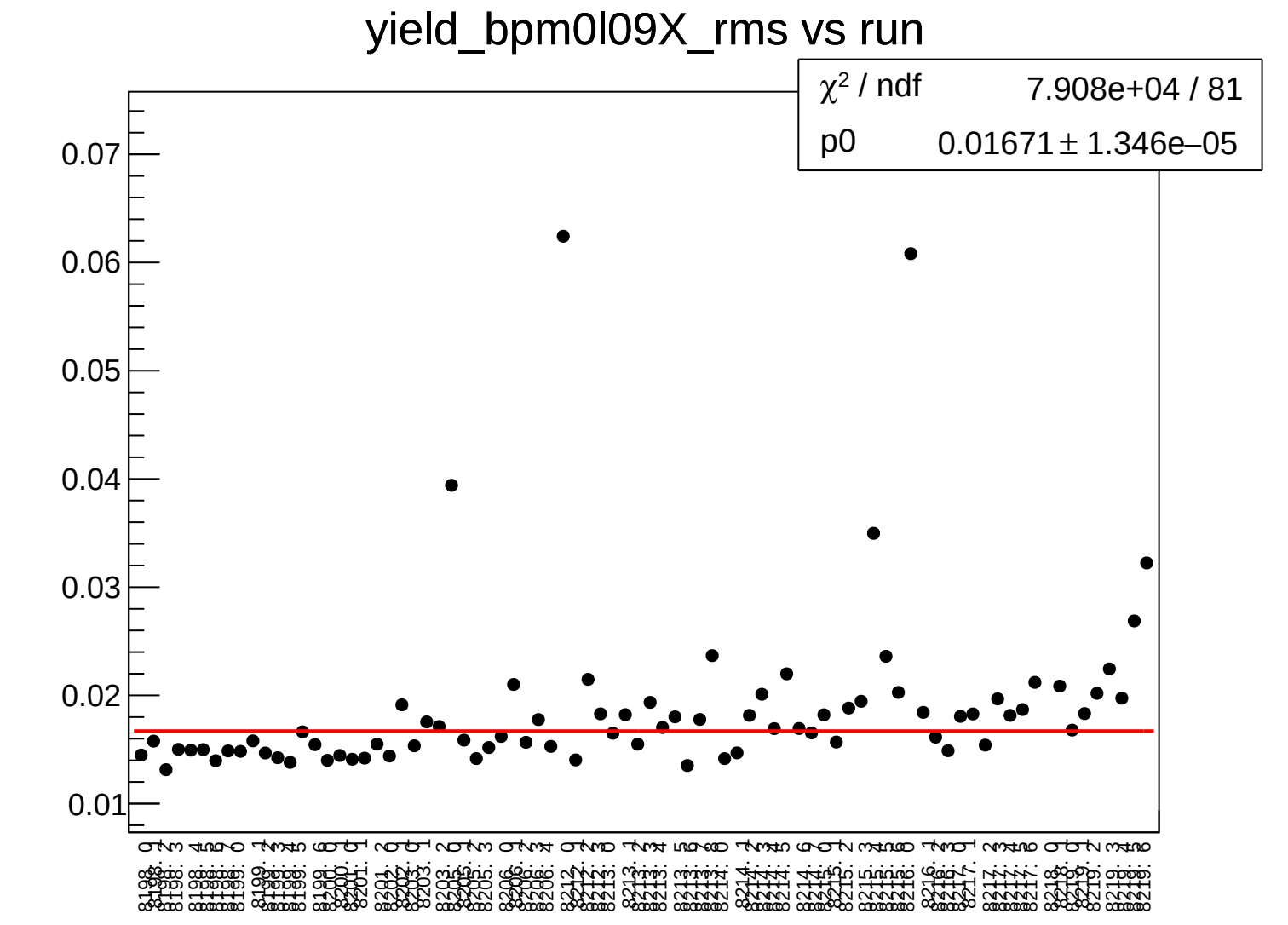

yield_bpm0l08X_rms vs run
χ² / ndf 8.394e+04 / 81
p0 0.01763 ± 1.422e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

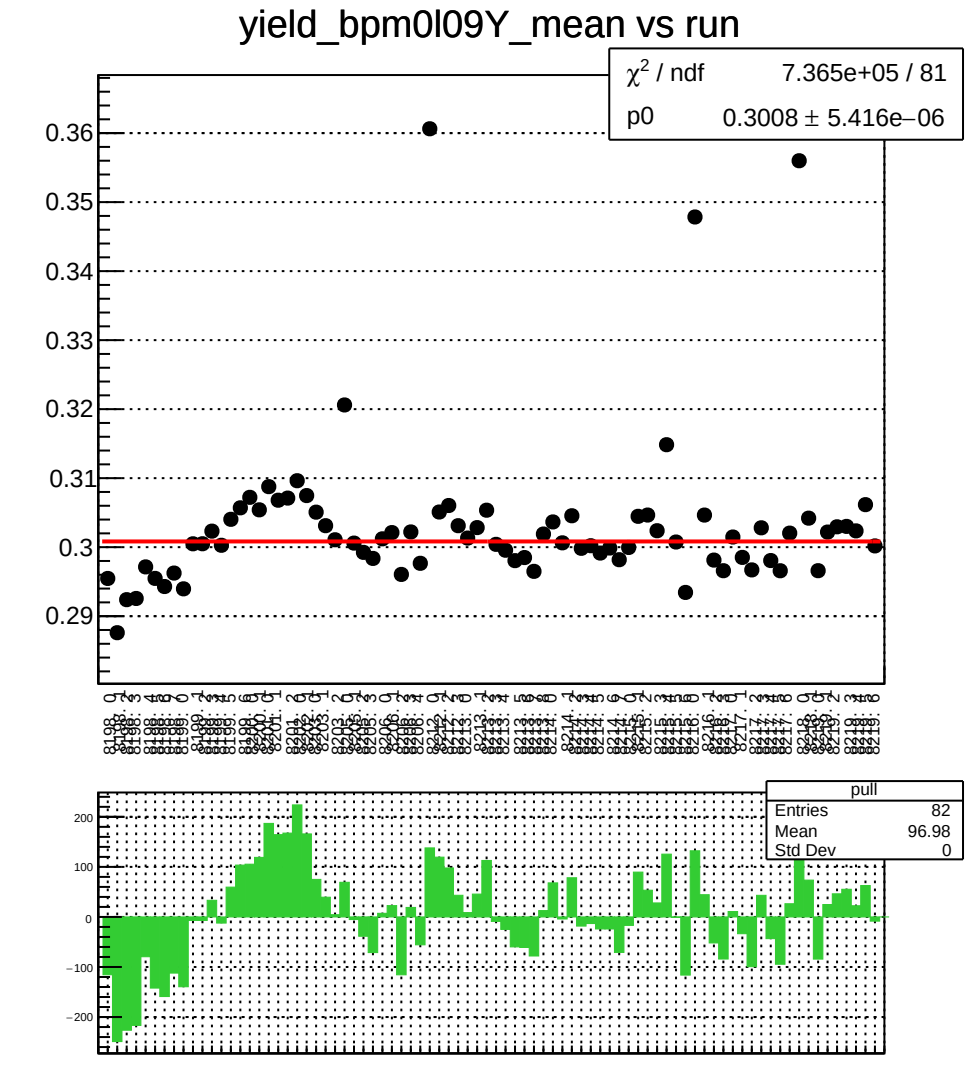

yield_bpm0l08Y_mean vs run
χ² / ndf 8.133e+06 / 81
p0 0.3084 ± 5.105e−06
0.36
0.34
0.32
0.3
0.28
pull
Entries 82
Mean 199
Std Dev 0
600
400
200
0
−200
−400
−600
−800

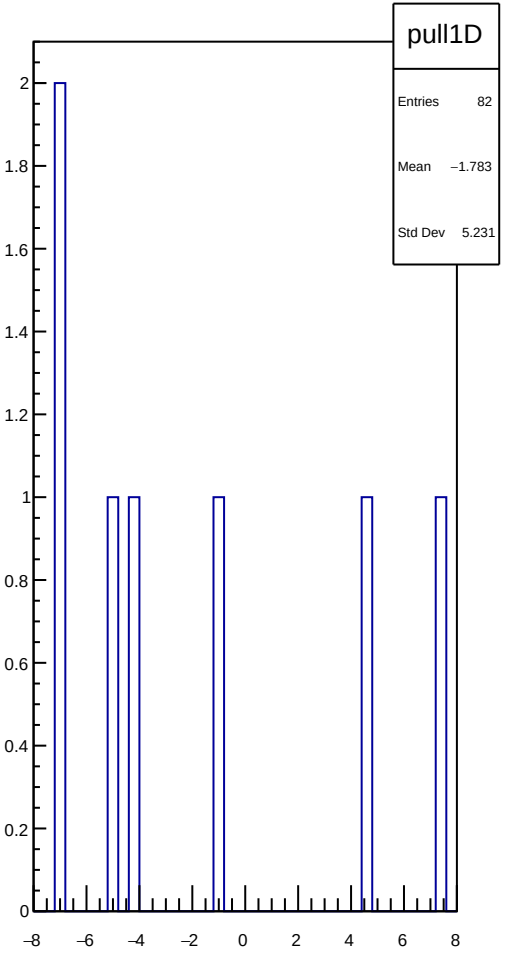

pull1D
Entries 82
Mean 5.003
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

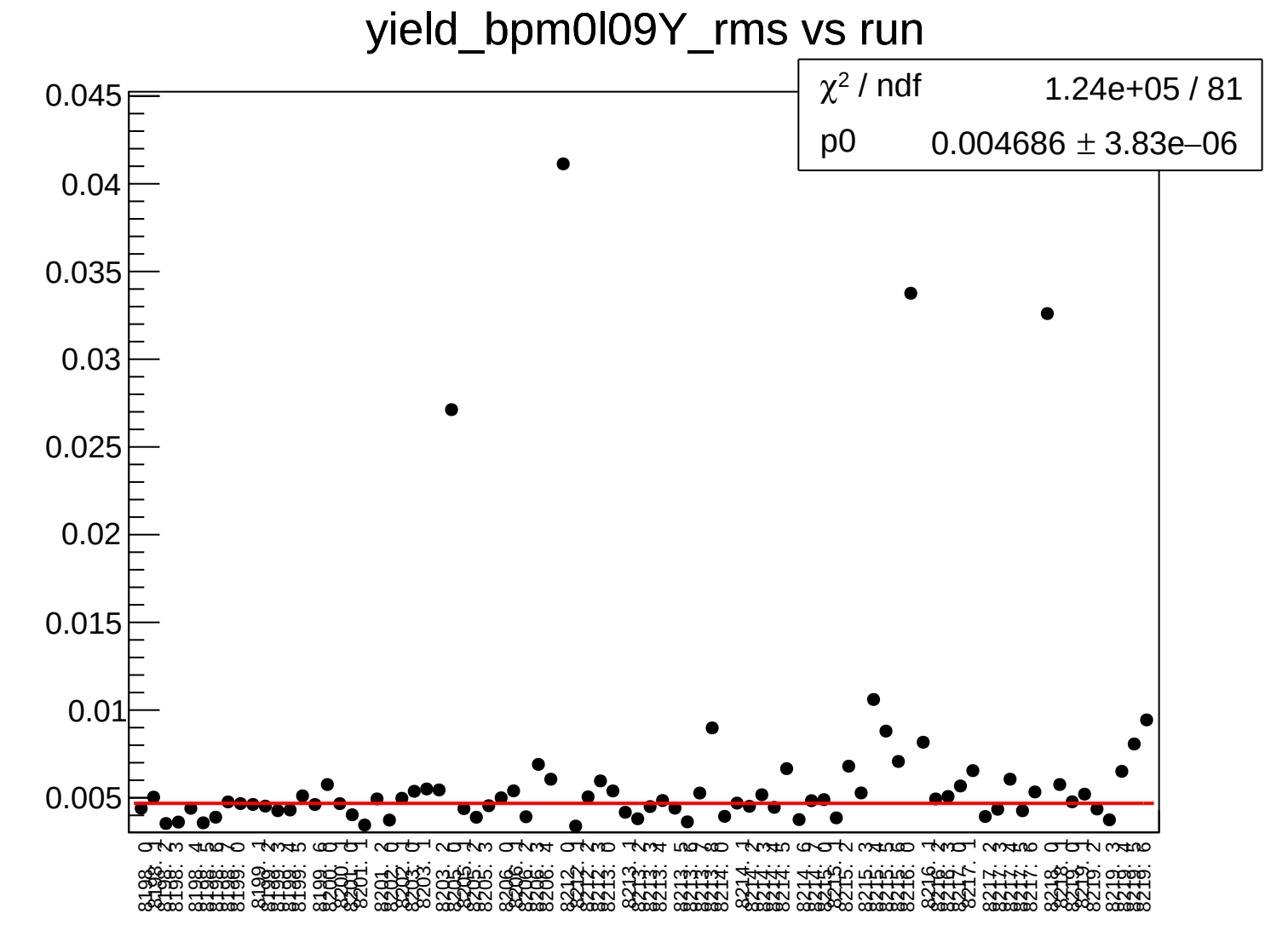

yield_bpm0l08Y_rms vs run
χ² / ndf 1.024e+05 / 81
p0 0.004449 ± 3.61e−06
0.025
0.02
0.015
0.01
0.005

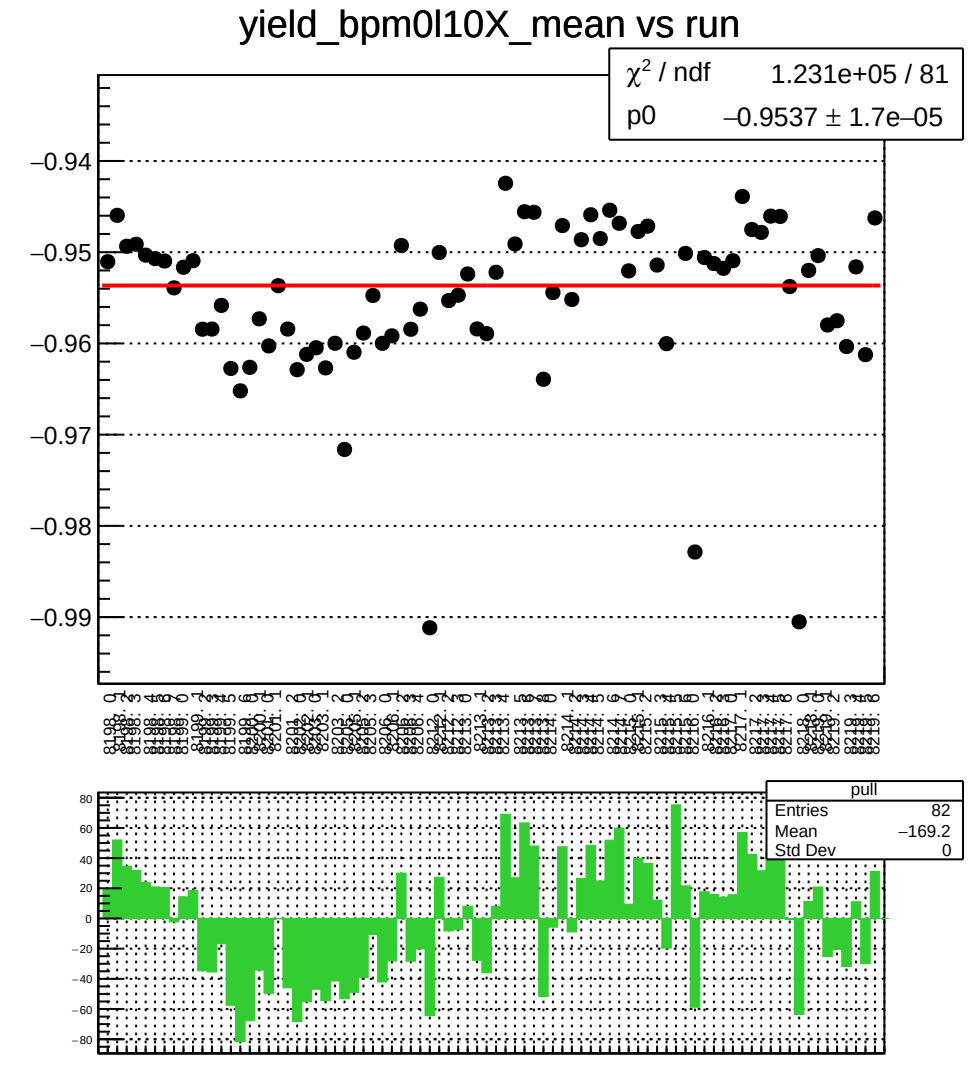

yield_bpm0l09X_mean vs run
χ² / ndf 9.922e+04 / 81
p0 0.7395 ± 1.903e−05
0.76
0.75
0.74
0.73
0.72
0.71
0.7
0.69
pull
Entries 82
Mean 103.6
Std Dev 0
60
40
20
0
−20
−40
−60
pull1D
Entries 82
Mean −0.4322
Std Dev 5.23
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

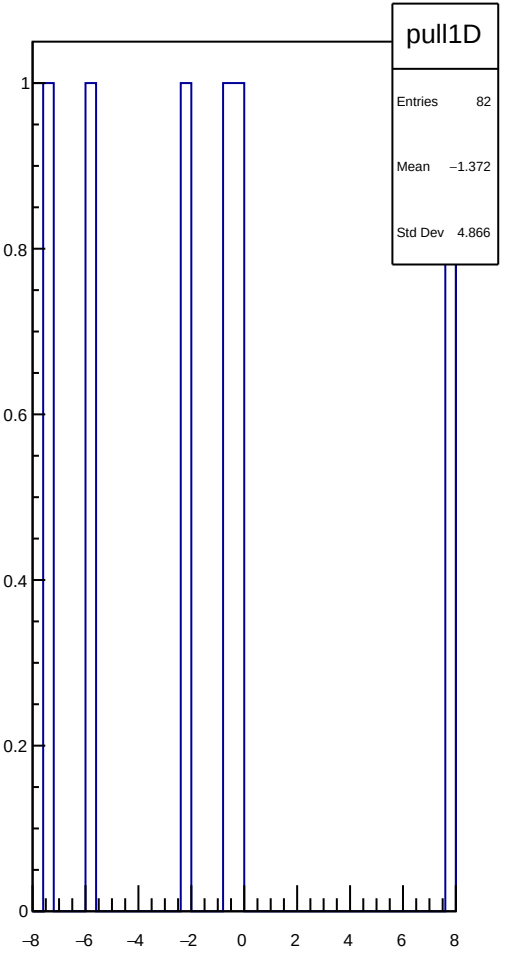

yield_bpm0l09X_rms vs run
$\chi^2$ / ndf 7.908e+04 / 81
p0 0.01671 ± 1.346e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

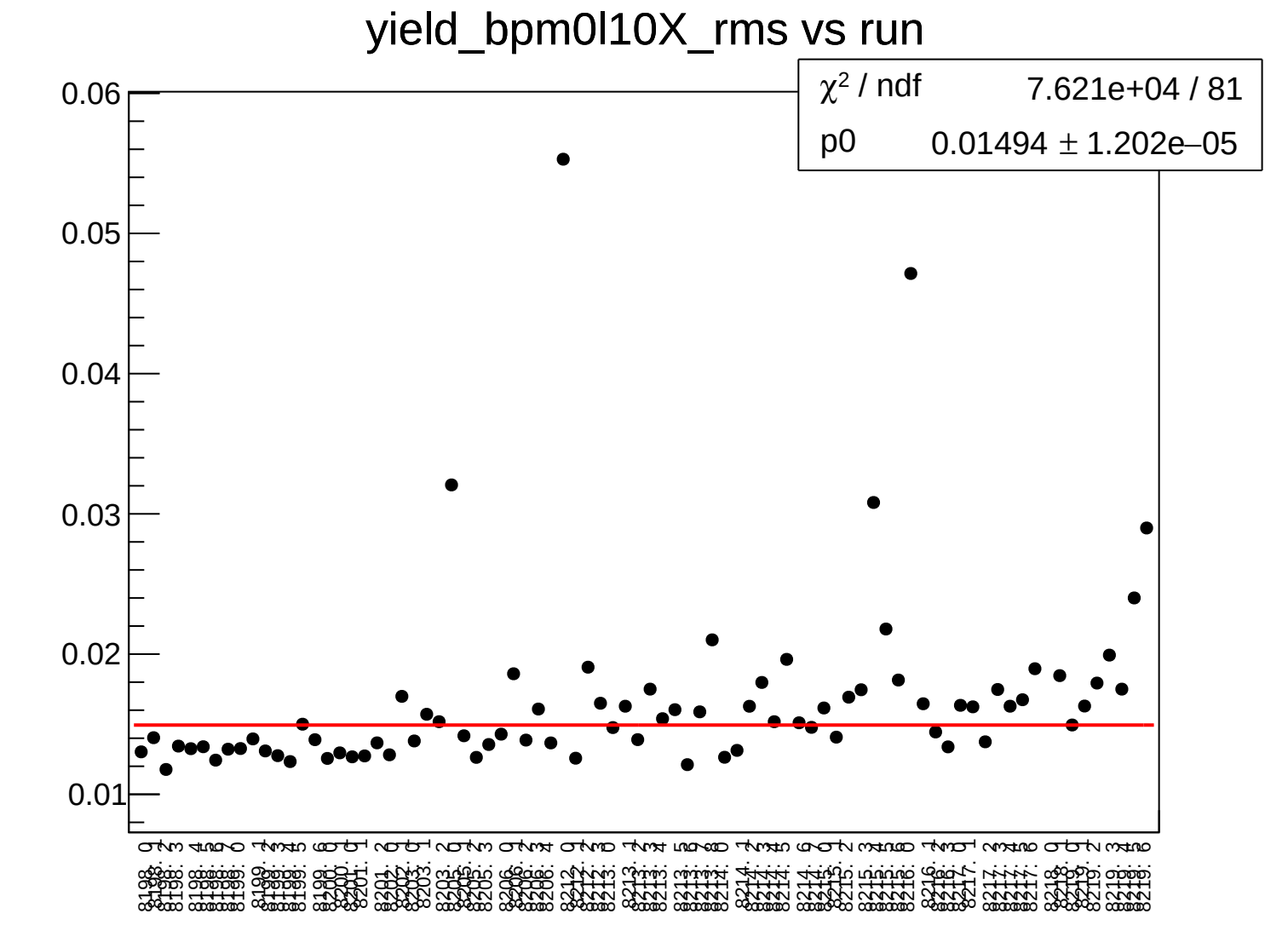

yield_bpm0l09Y_mean vs run
χ² / ndf 7.365e+05 / 81
p0 0.3008 ± 5.416e−06
0.36
0.35
0.34
0.33
0.32
0.31
0.3
0.29
pull
Entries 82
Mean 96.98
Std Dev 0
200
100
0
−100
−200

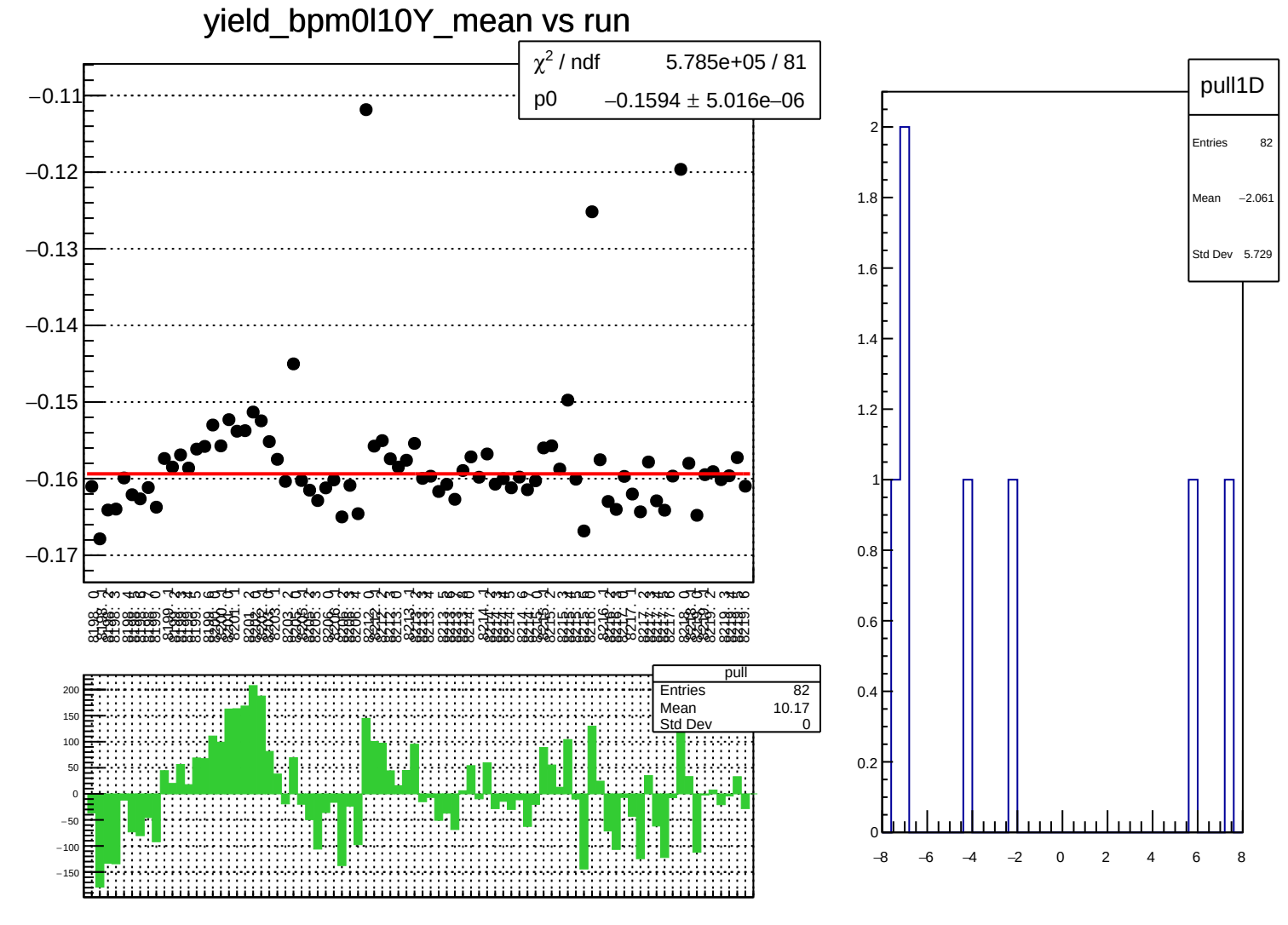

pull1D
Entries 82
Mean −1.783
Std Dev 5.231
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

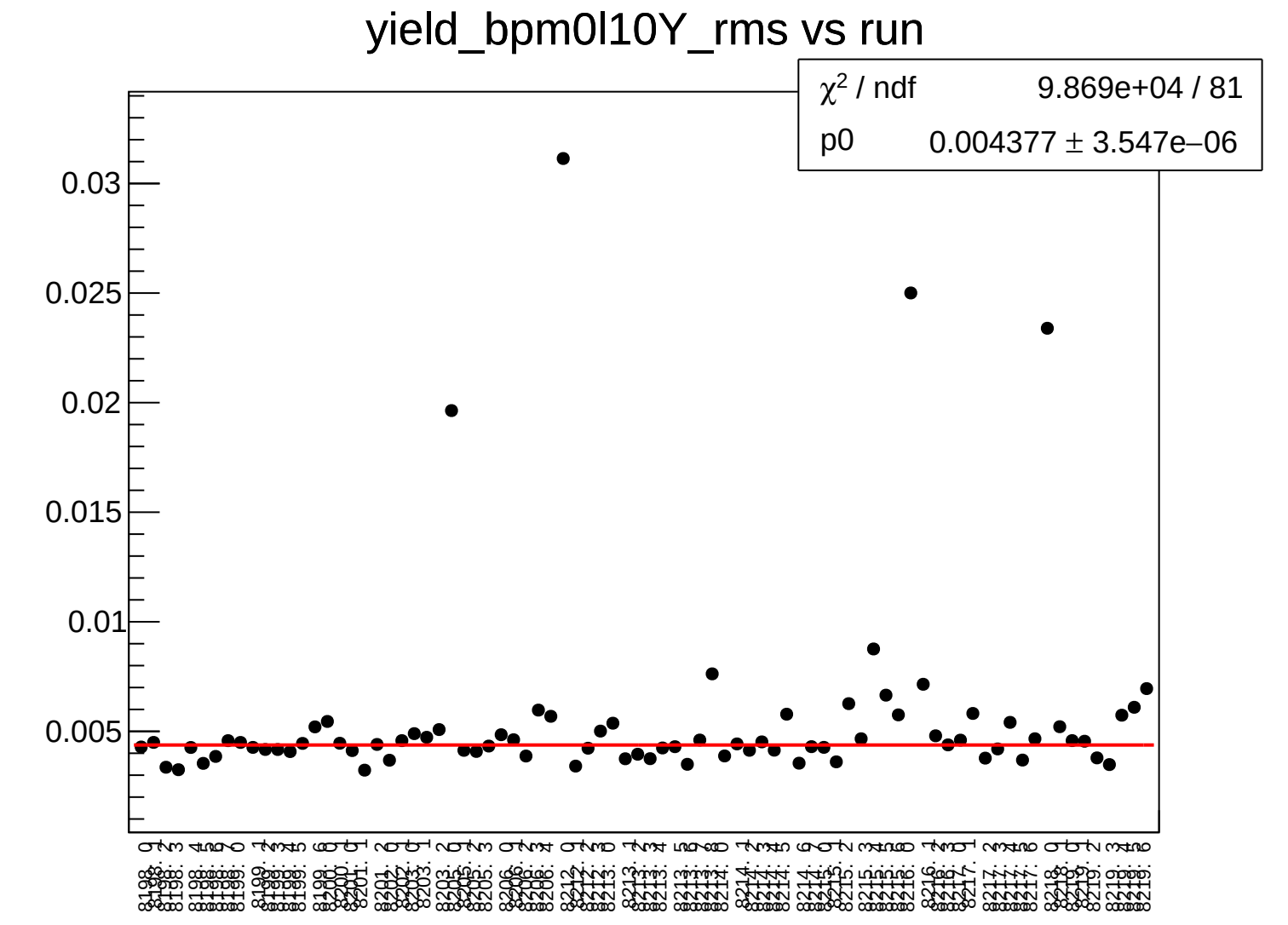

yield_bpm0l09Y_rms vs run
χ² / ndf 1.24e+05 / 81
p0 0.004686 ± 3.83e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

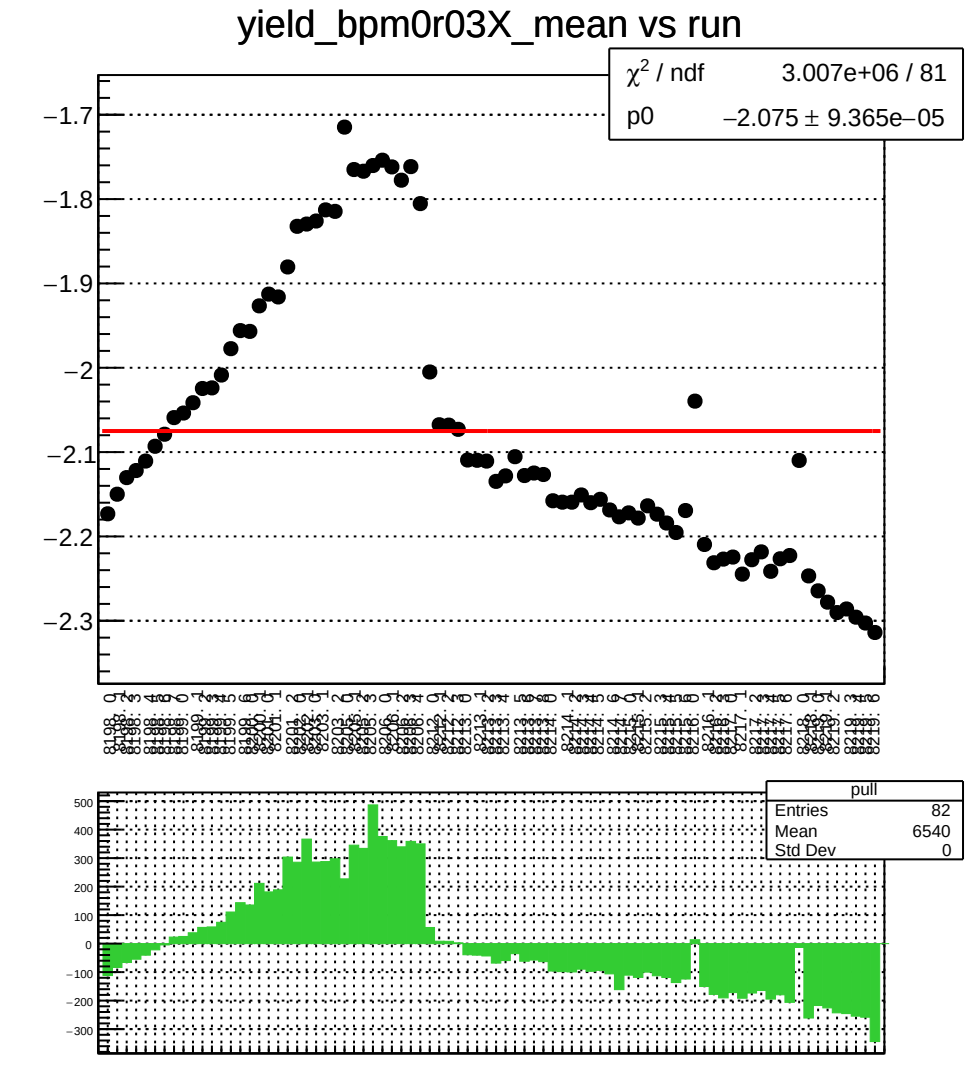

yield_bpm0l10X_mean vs run
χ² / ndf 1.231e+05 / 81
p0 −0.9537 ± 1.7e−05
−0.94
−0.95
−0.96
−0.97
−0.98
−0.99
pull
Entries 82
Mean −169.2
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

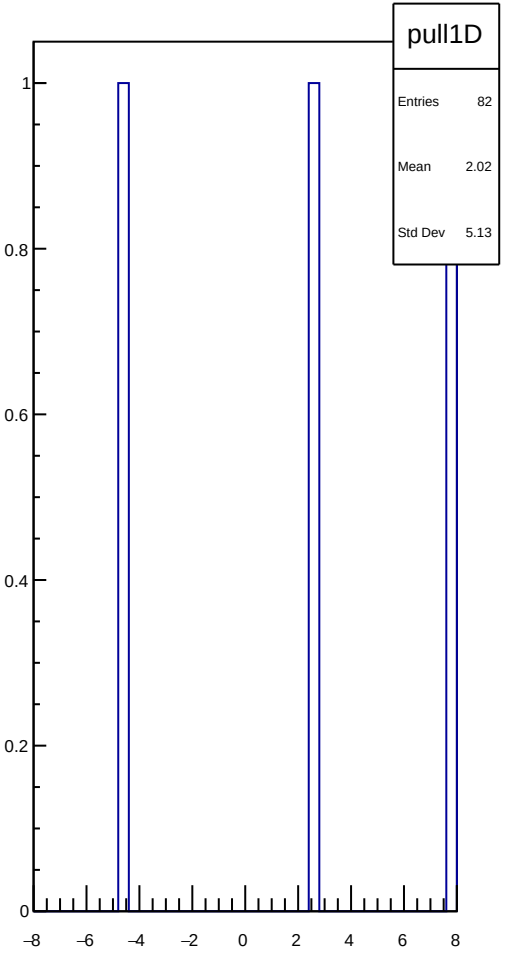

pull1D
Entries 82
Mean −1.372
Std Dev 4.866
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

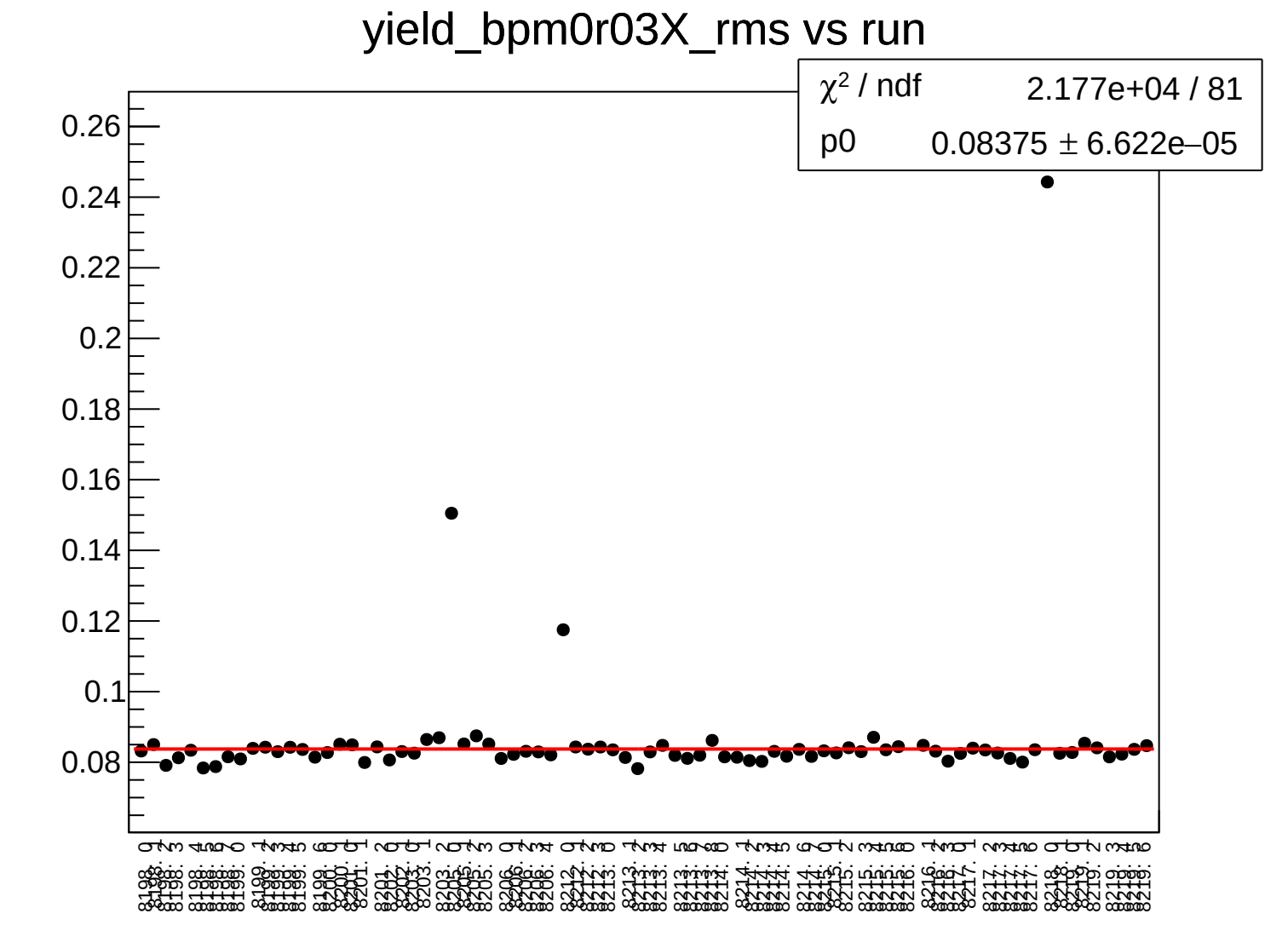

yield_bpm0l10X_rms vs run
χ² / ndf 7.621e+04 / 81
p0 0.01494 ± 1.202e–05
0.06
0.05
0.04
0.03
0.02
0.01

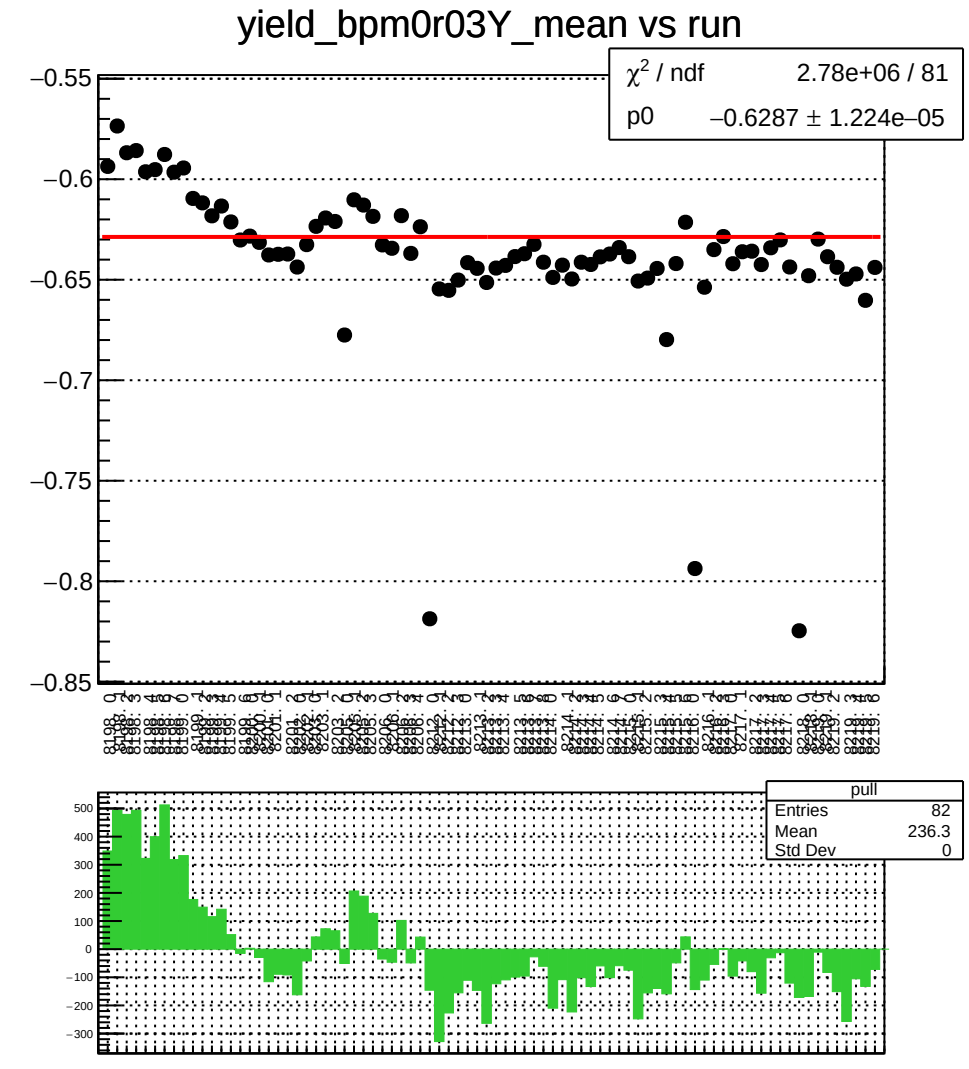

yield_bpm0l10Y_mean vs run
χ² / ndf 5.785e+05 / 81
p0 −0.1594 ± 5.016e−06
−0.11
−0.12
−0.13
−0.14
−0.15
−0.16
−0.17
pull
Entries 82
Mean 10.17
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 82
Mean −2.061
Std Dev 5.729
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

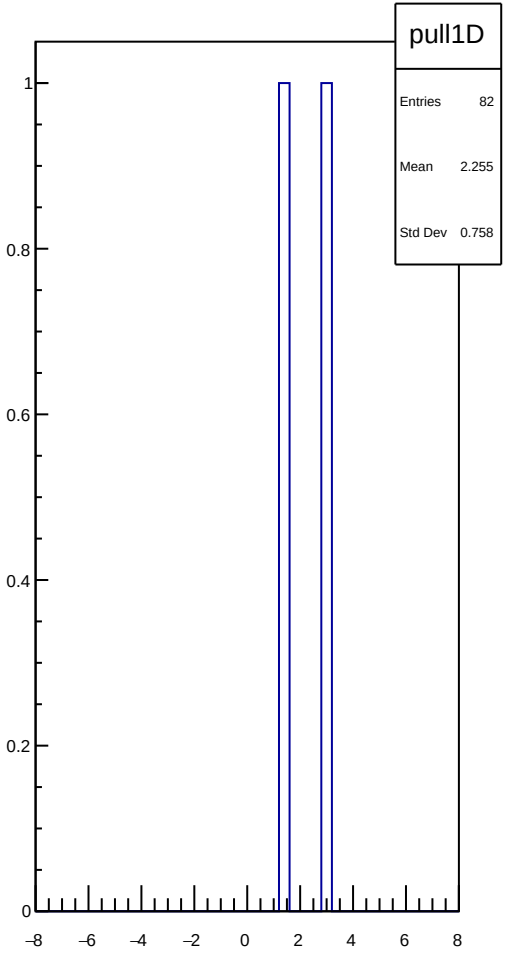

yield_bpm0l10Y_rms vs run
$\chi^2$ / ndf 9.869e+04 / 81
p0 0.004377 ± 3.547e−06
0.03
0.025
0.02
0.015
0.01
0.005

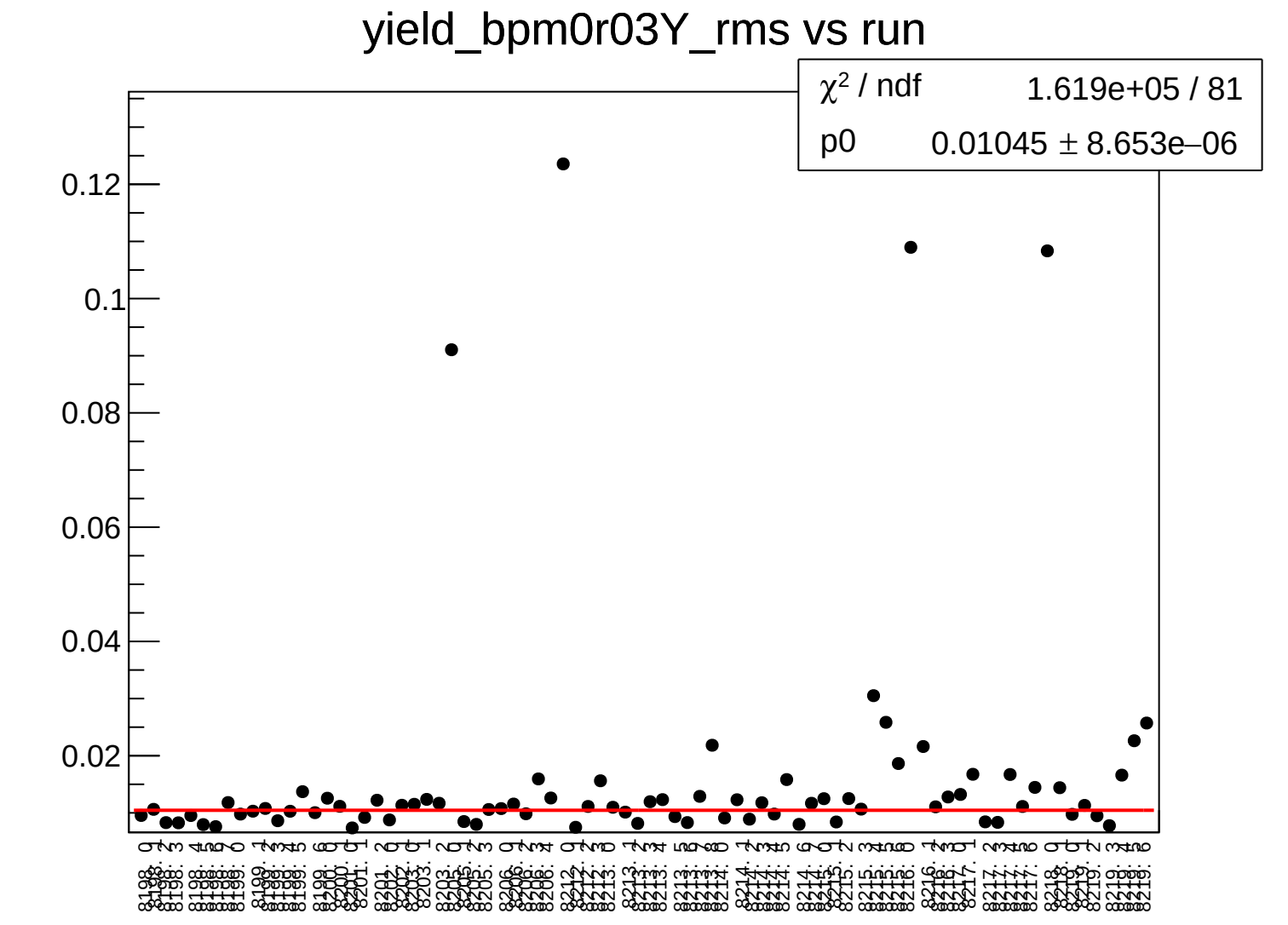

yield_bpm0r03X_mean vs run
χ² / ndf 3.007e+06 / 81
p0 −2.075 ± 9.365e−05
−1.7
−1.8
−1.9
−2
−2.1
−2.2
−2.3
pull
Entries 82
Mean 6540
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

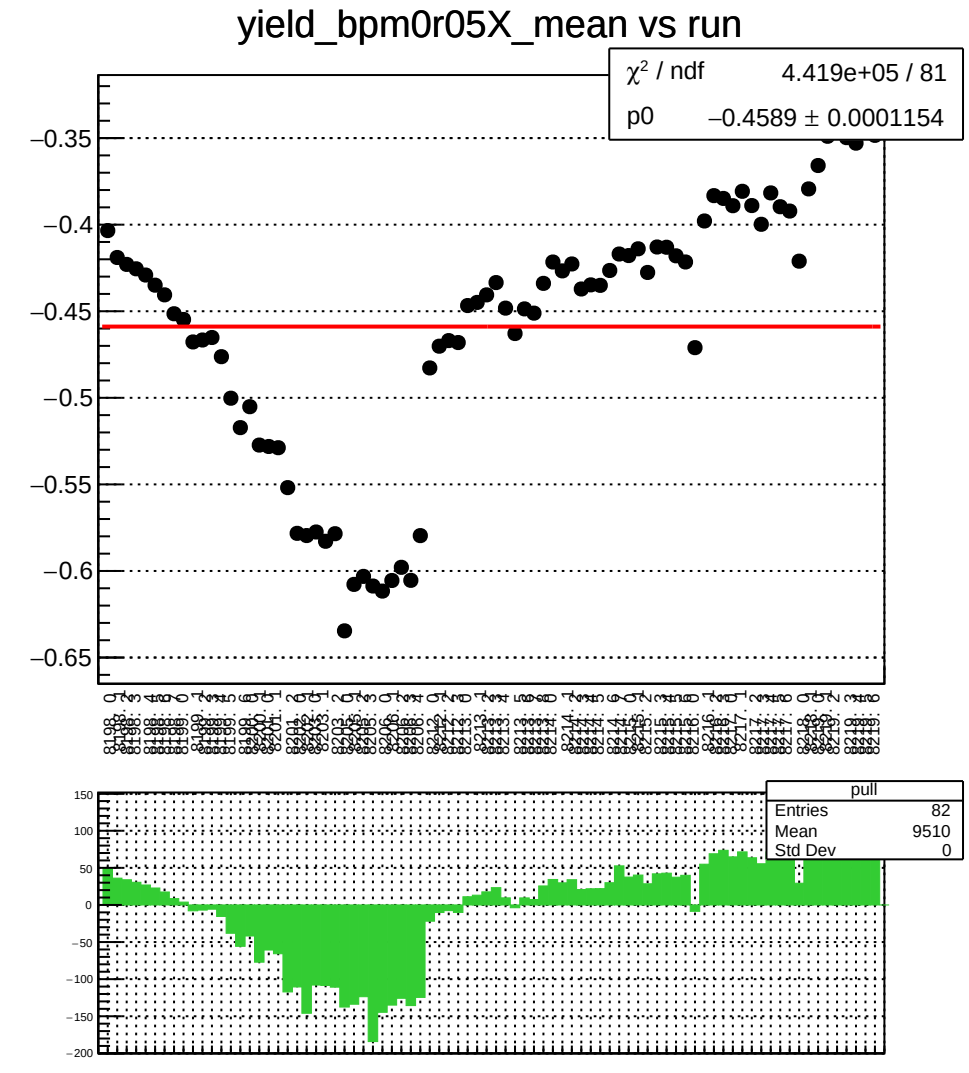

pull1D
Entries 82
Mean 2.02
Std Dev 5.13
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

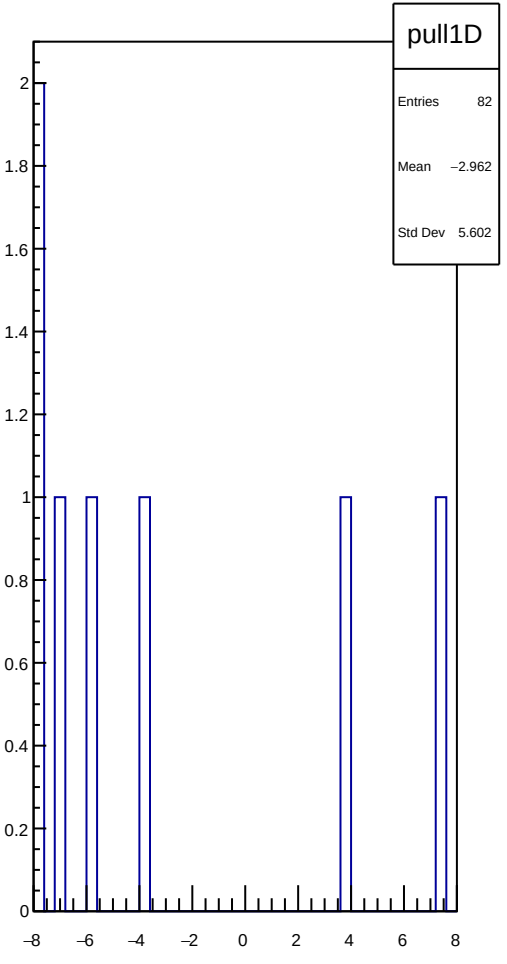

yield_bpm0r03X_rms vs run
χ² / ndf 2.177e+04 / 81
p0 0.08375 ± 6.622e–05
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

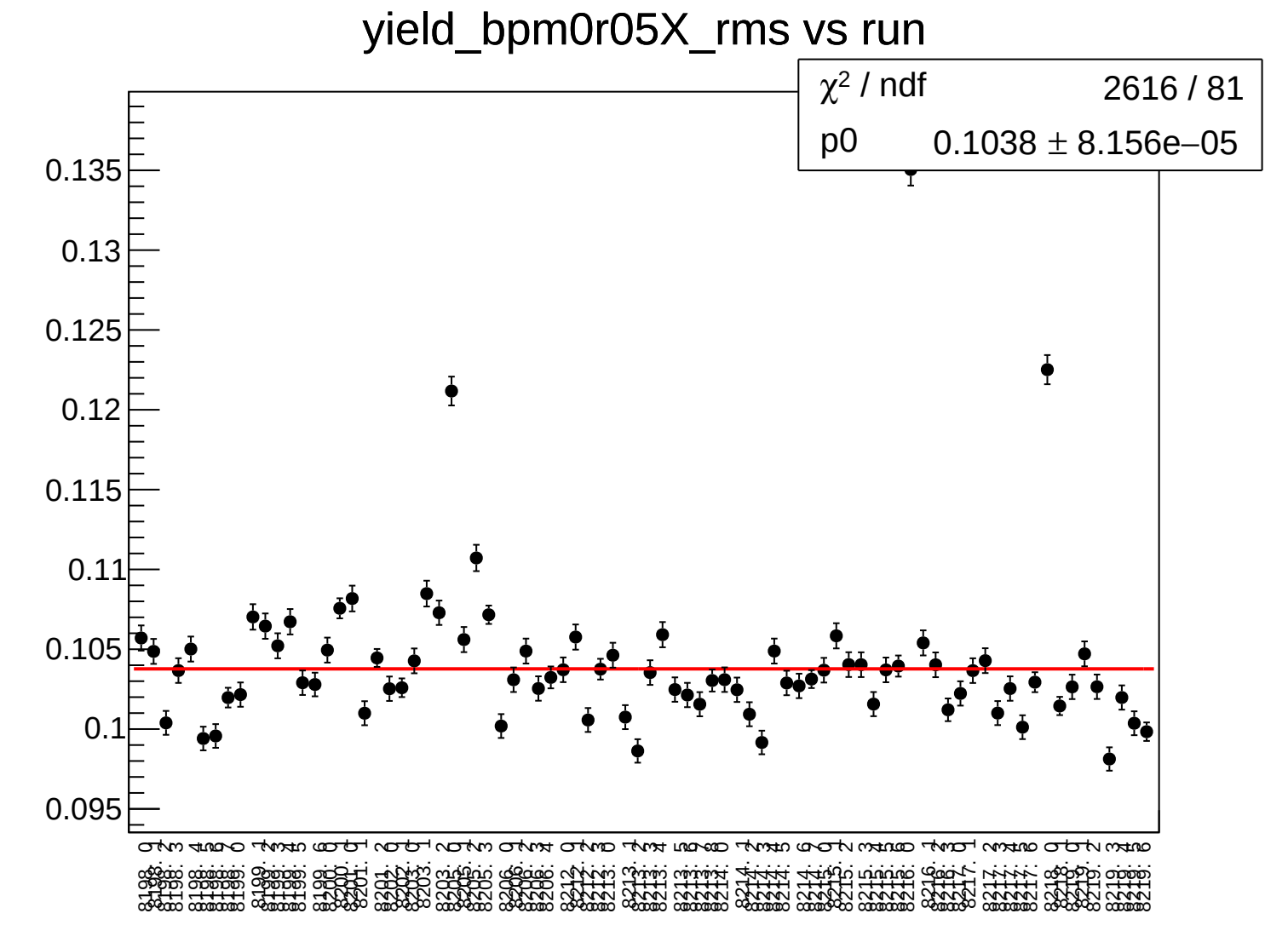

yield_bpm0r03Y_mean vs run
χ² / ndf 2.78e+06 / 81
p0 −0.6287 ± 1.224e−05
pull
Entries 82
Mean 236.3
Std Dev 0

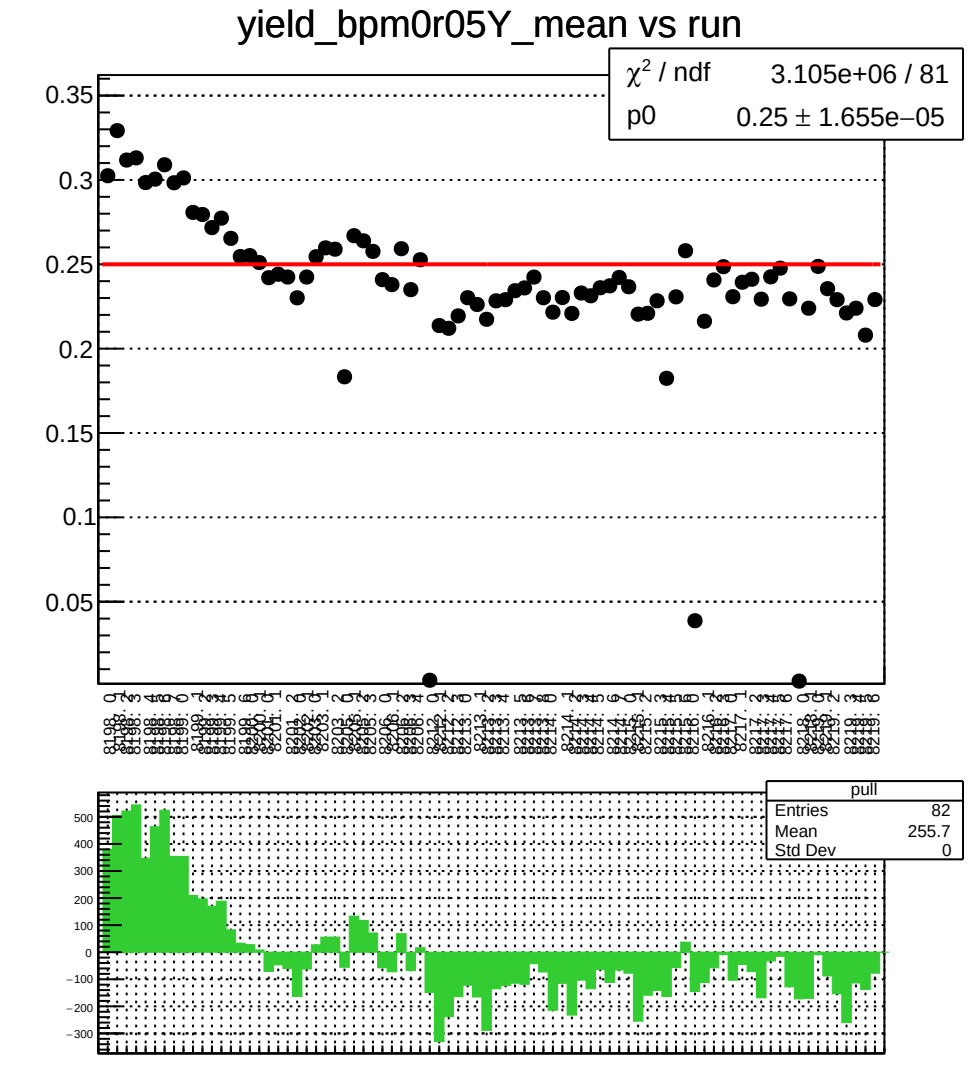

pull1D
Entries 82
Mean 2.255
Std Dev 0.758

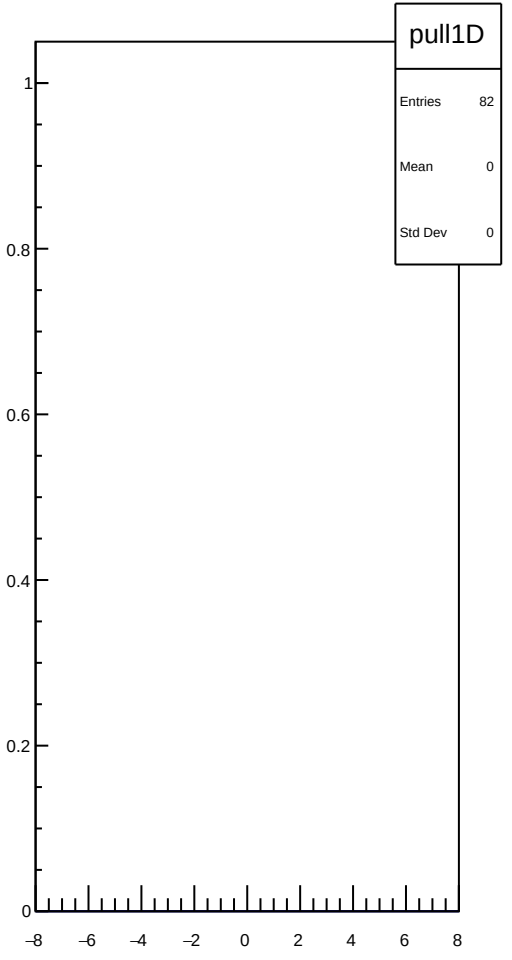

yield_bpm0r03Y_rms vs run
χ² / ndf 1.619e+05 / 81
p0 0.01045 ± 8.653e–06
0.12
0.1
0.08
0.06
0.04
0.02

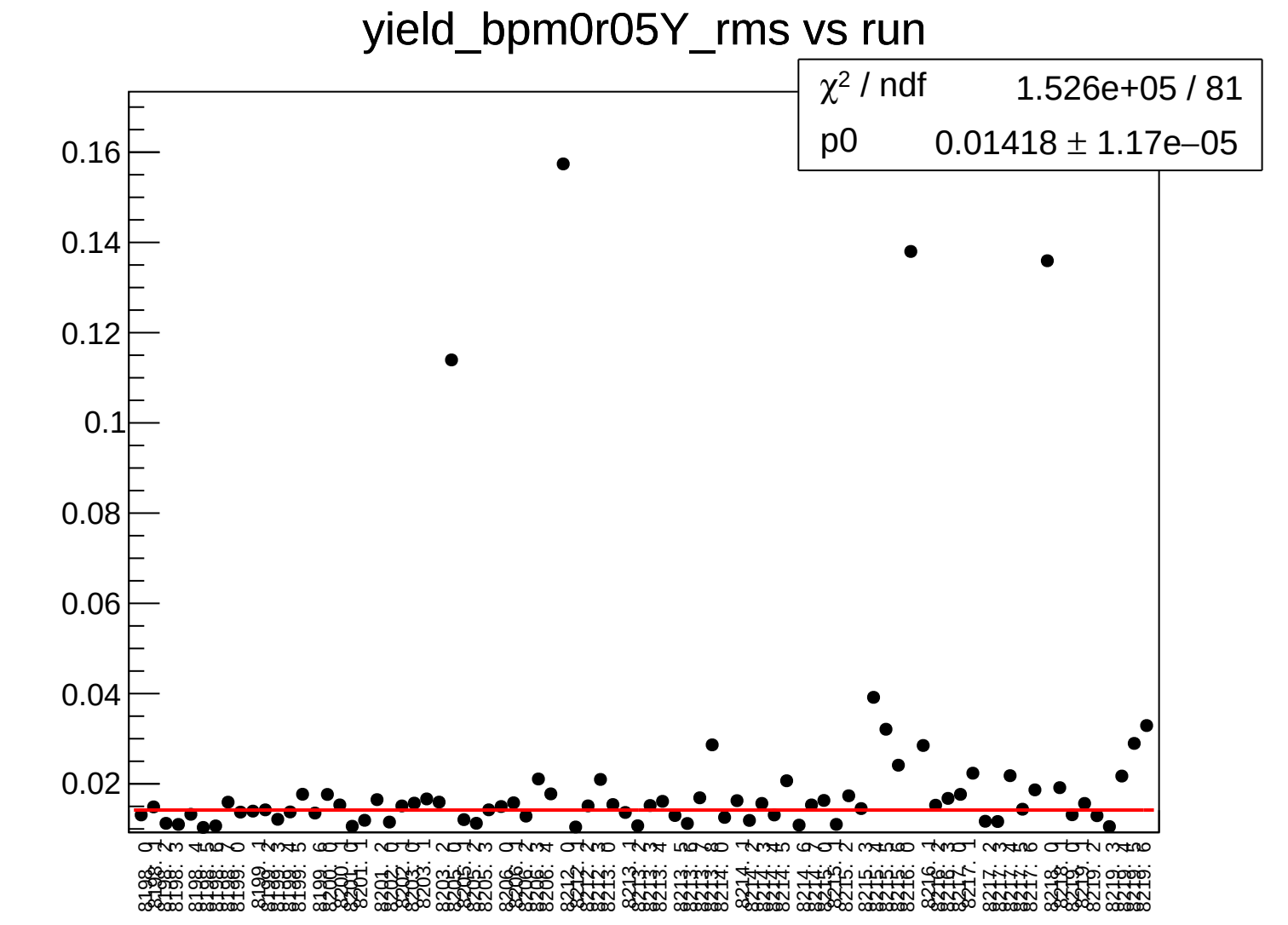

yield_bpm0r05X_mean vs run
χ² / ndf 4.419e+05 / 81
p0 −0.4589 ± 0.0001154
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
−0.65
pull
Entries 82
Mean 9510
Std Dev 0
150
100
50
0
−50
−100
−150
−200

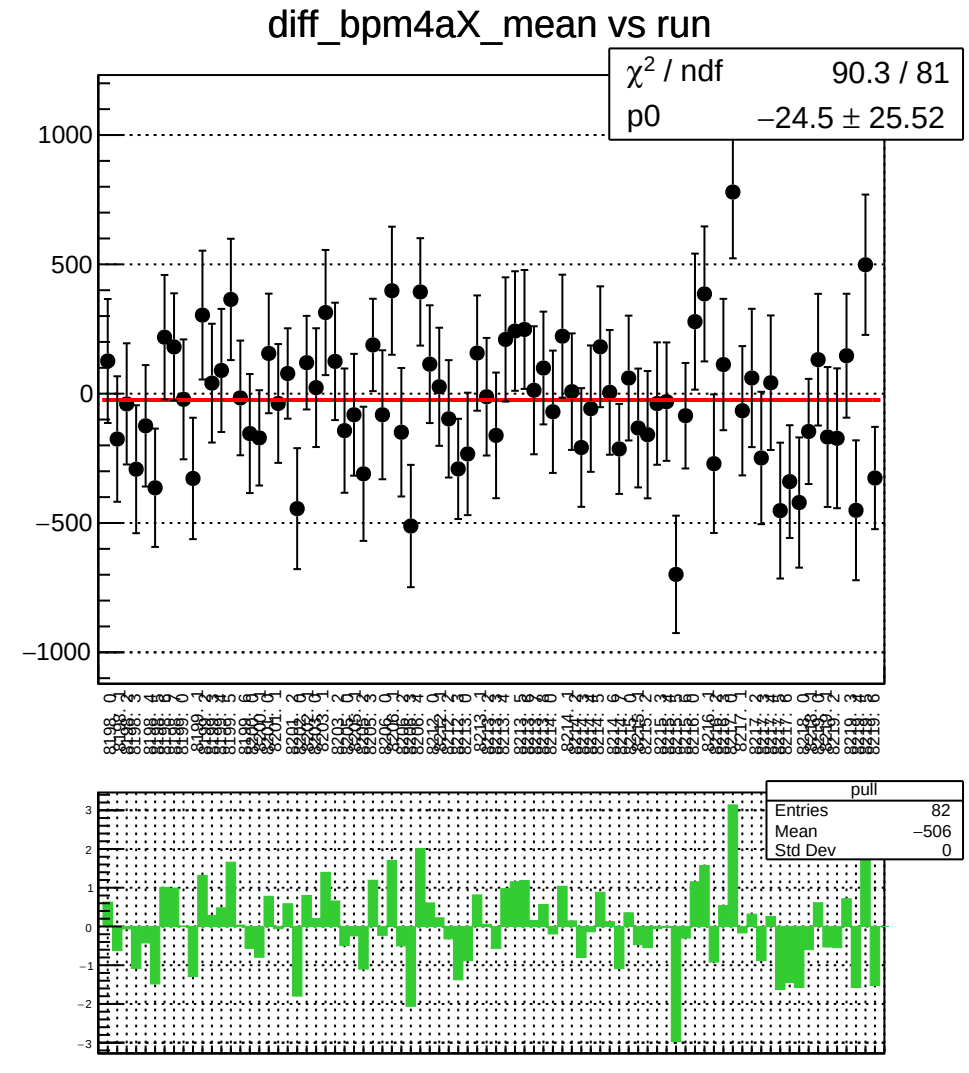

pull1D
Entries 82
Mean −2.962
Std Dev 5.602
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

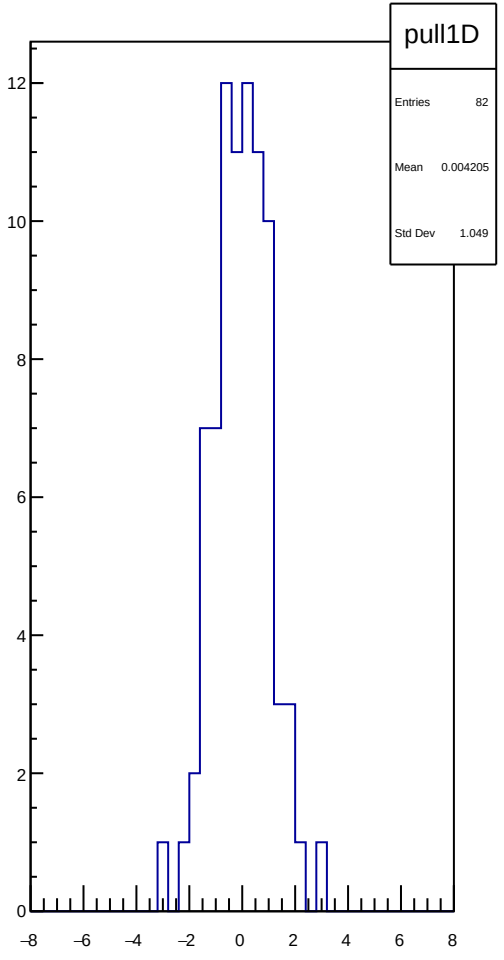

yield_bpm0r05X_rms vs run
χ² / ndf 2616 / 81
p0 0.1038 ± 8.156e−05
0.135
0.13
0.125
0.12
0.115
0.11
0.105
0.1
0.095

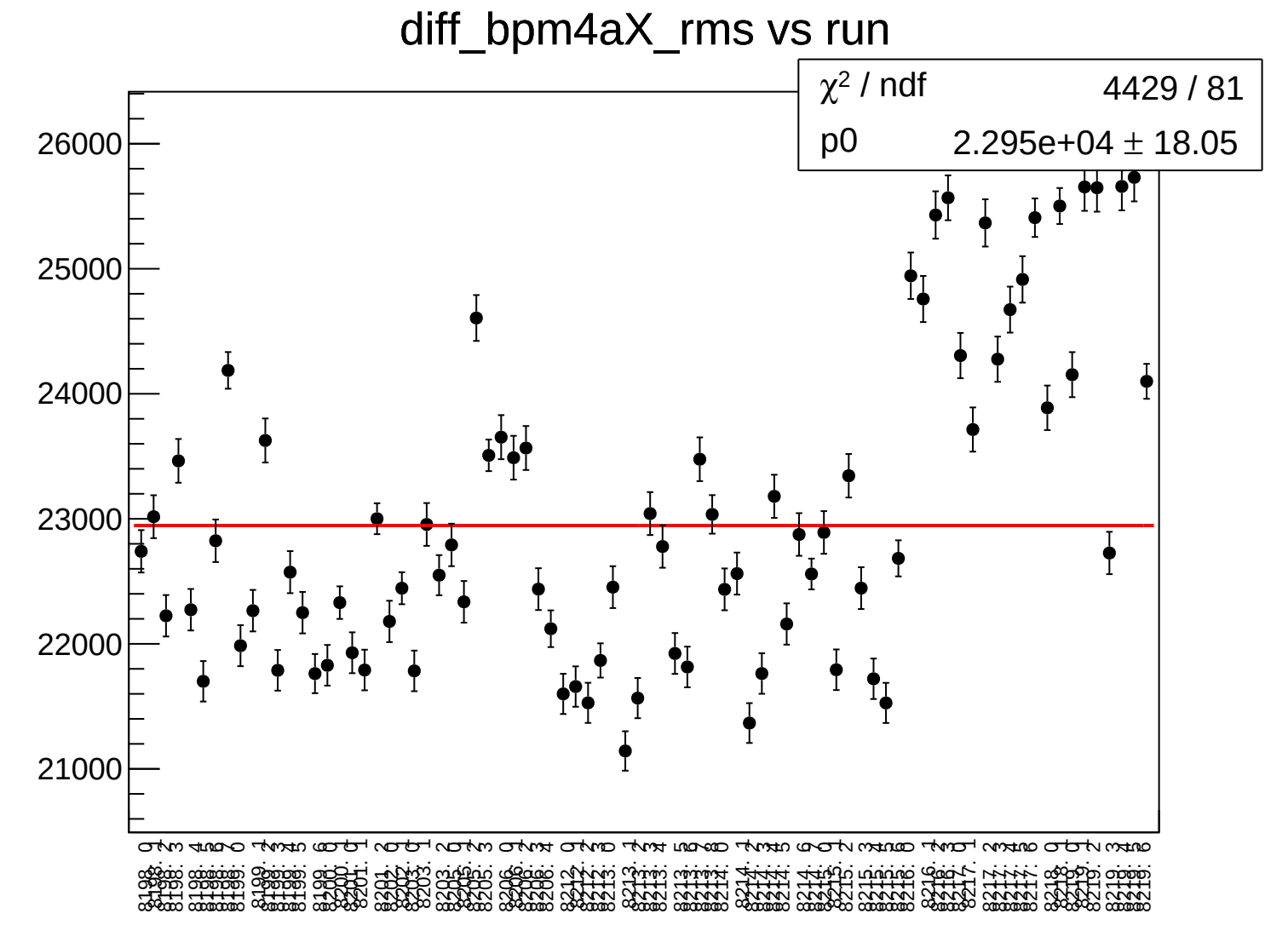

yield_bpm0r05Y_mean vs run
χ² / ndf 3.105e+06 / 81
p0 0.25 ± 1.655e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
pull
Entries 82
Mean 255.7
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

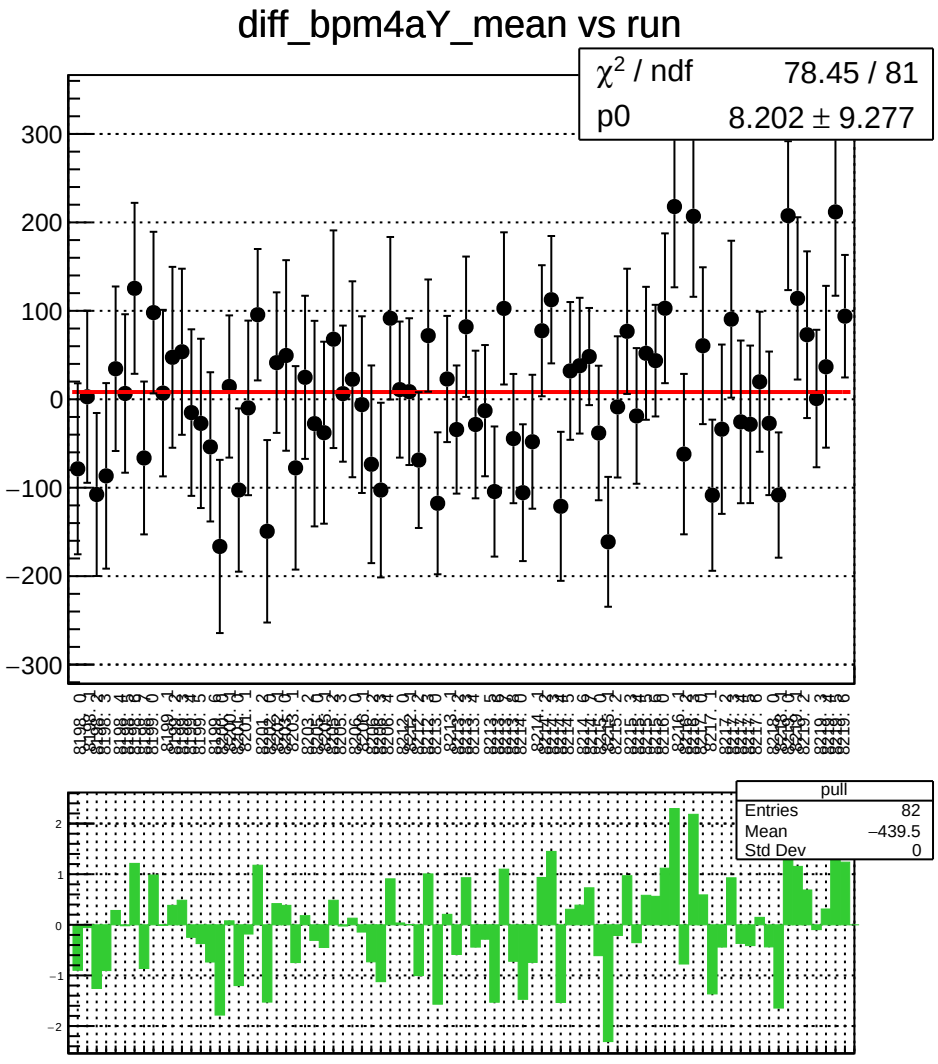

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

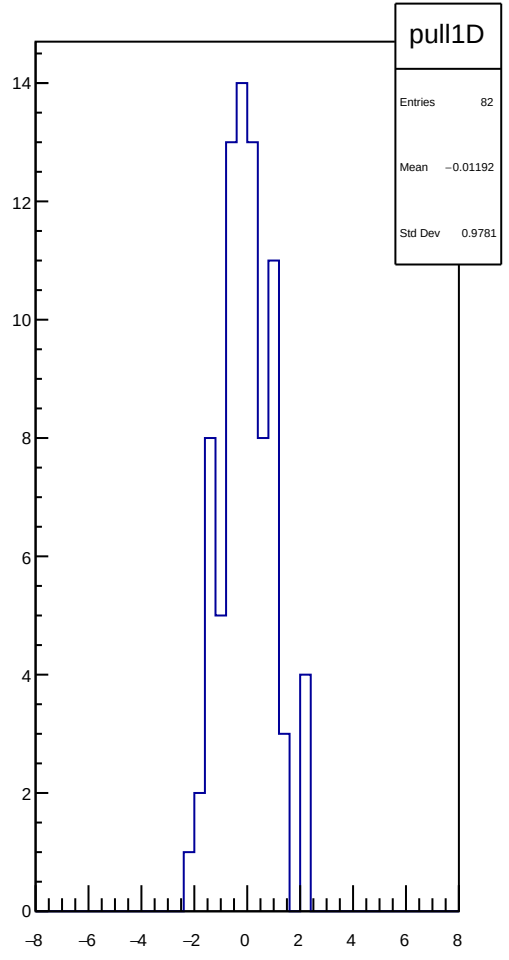

yield_bpm0r05Y_rms vs run
χ² / ndf 1.526e+05 / 81
p0 0.01418 ± 1.17e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

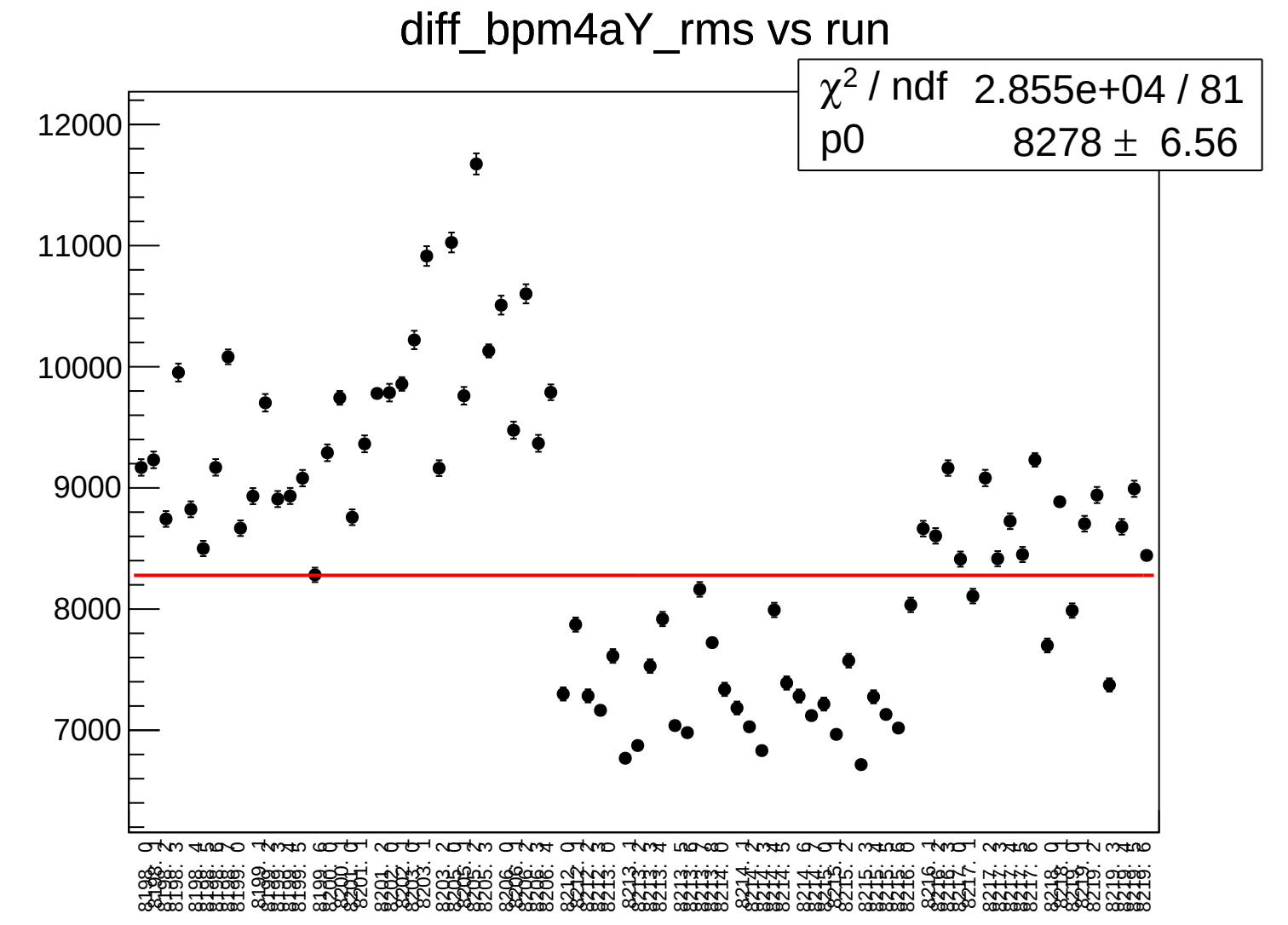

diff_bpm4aX_mean vs run
χ² / ndf 90.3 / 81
p0 −24.5 ± 25.52
1000
500
0
−500
−1000
pull
Entries 82
Mean −506
Std Dev 0
3
2
1
0
−1
−2
−3

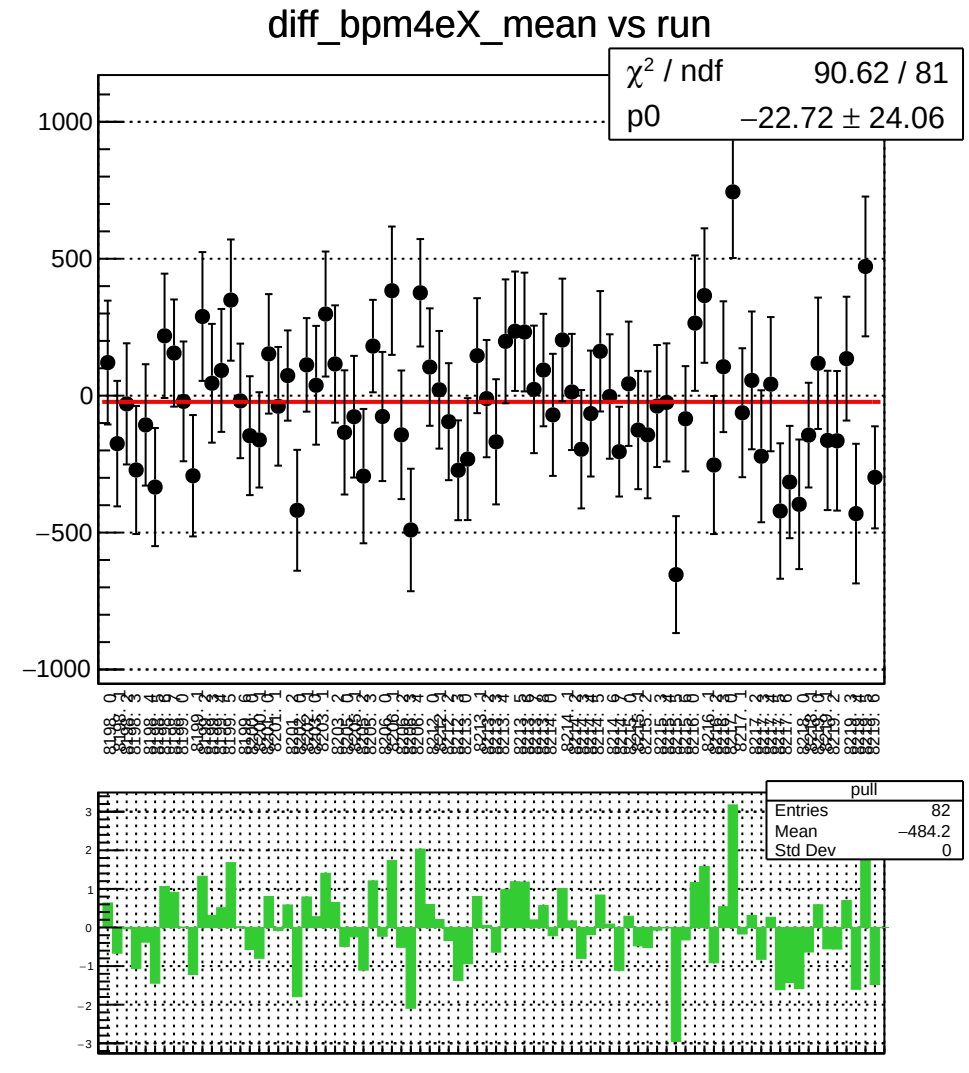

pull1D
Entries 82
Mean 0.004205
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

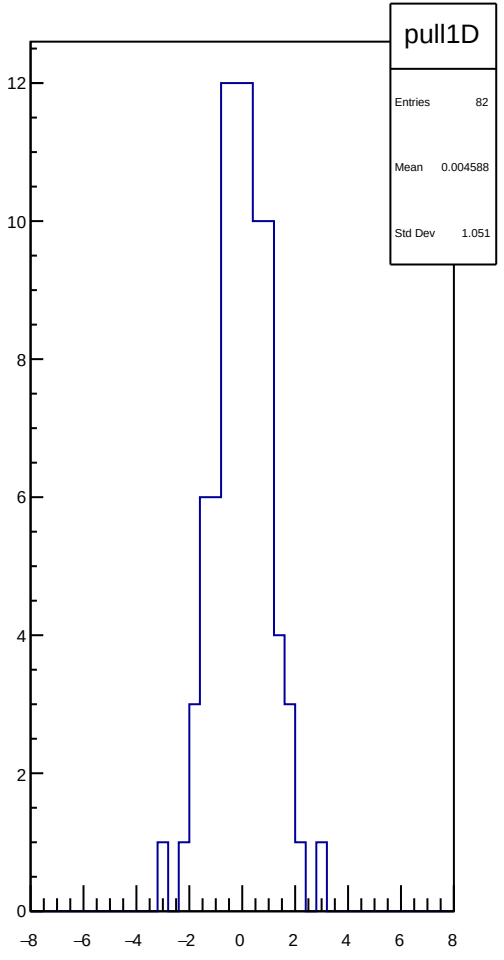

diff_bpm4aX_rms vs run
χ² / ndf 4429 / 81
p0 2.295e+04 ± 18.05
26000
25000
24000
23000
22000
21000

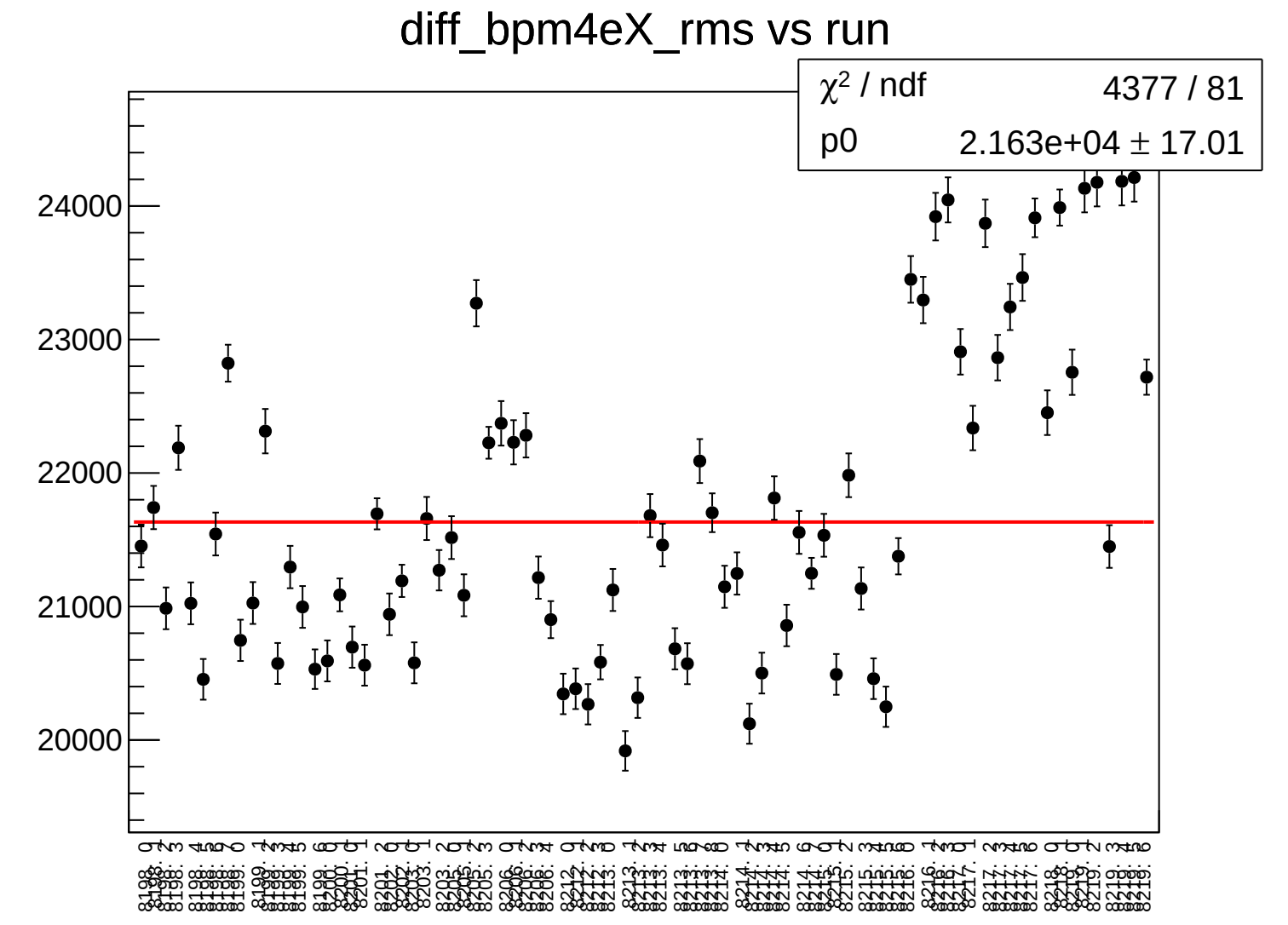

diff_bpm4aY_mean vs run
χ² / ndf 78.45 / 81
p0 8.202 ± 9.277
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −439.5
Std Dev 0
2
1
0
−1
−2

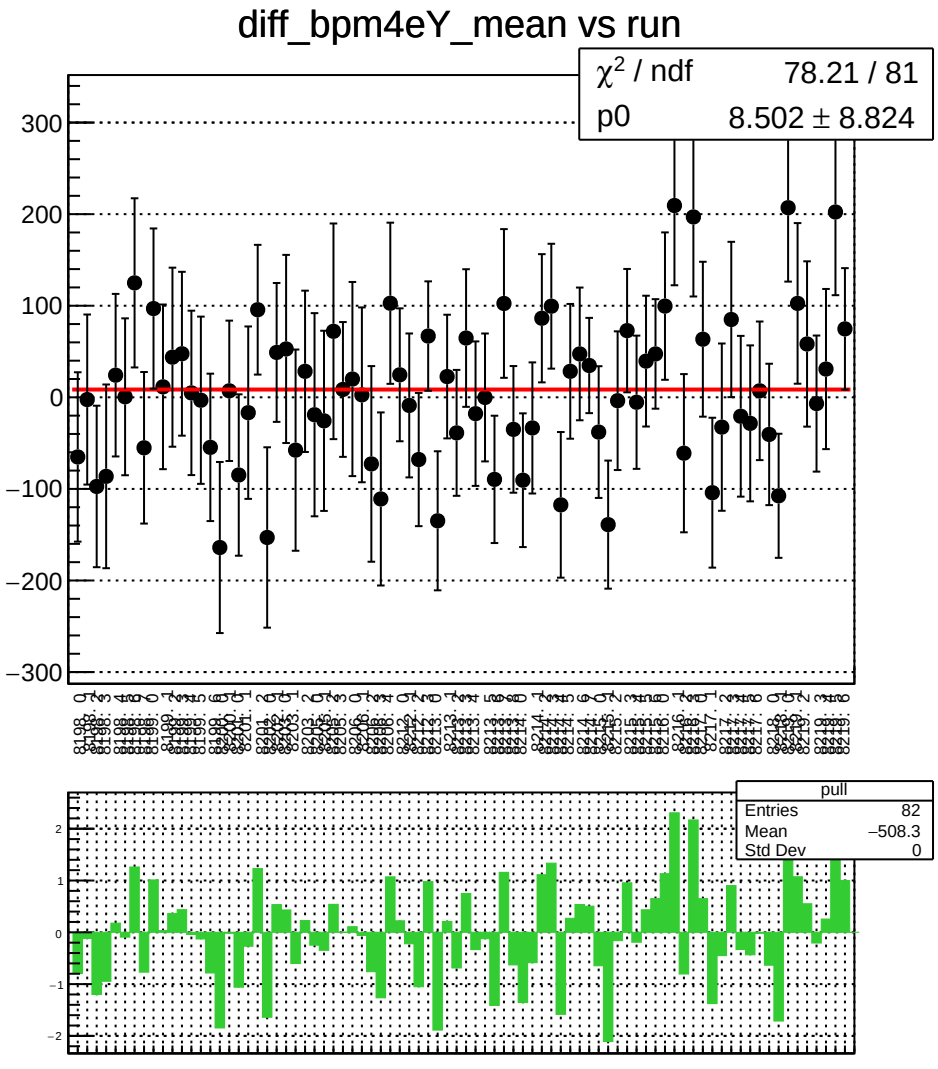

pull1D
Entries 82
Mean −0.01192
Std Dev 0.9781
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

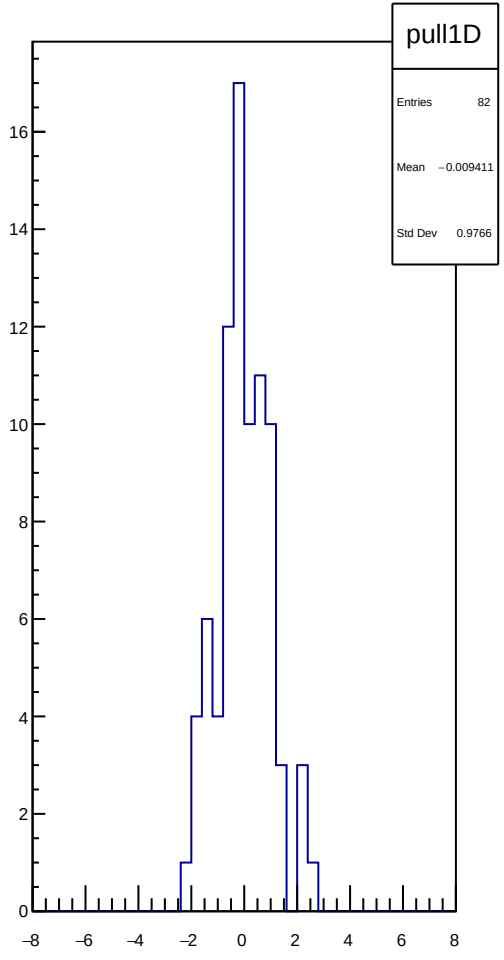

diff_bpm4aY_rms vs run
χ² / ndf 2.855e+04 / 81
p0 8278 ± 6.56
12000
11000
10000
9000
8000
7000

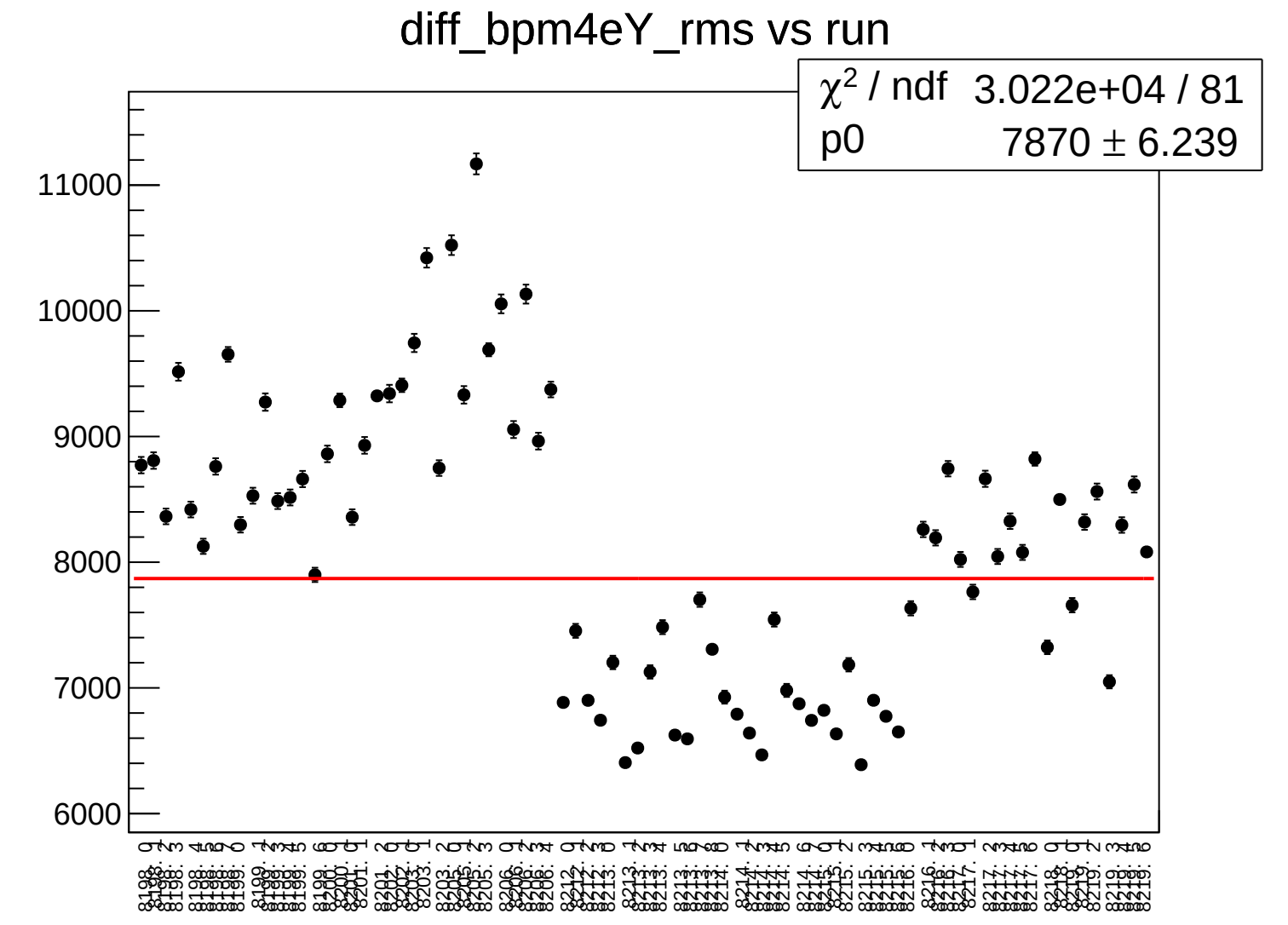

diff_bpm4eX_mean vs run
χ² / ndf 90.62 / 81
p0 −22.72 ± 24.06
1000
500
0
−500
−1000
pull
Entries 82
Mean −484.2
Std Dev 0
3
2
1
0
−1
−2
−3

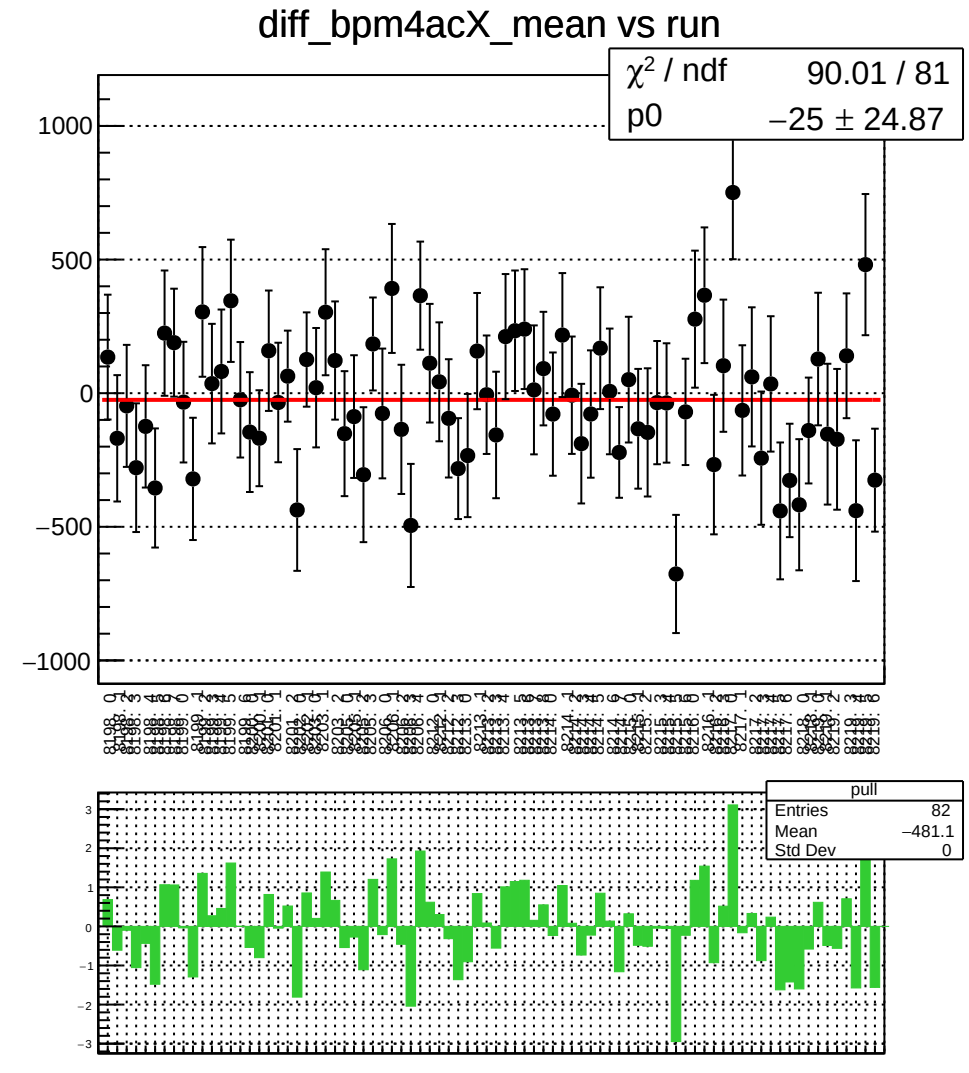

pull1D
Entries 82
Mean 0.004588
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

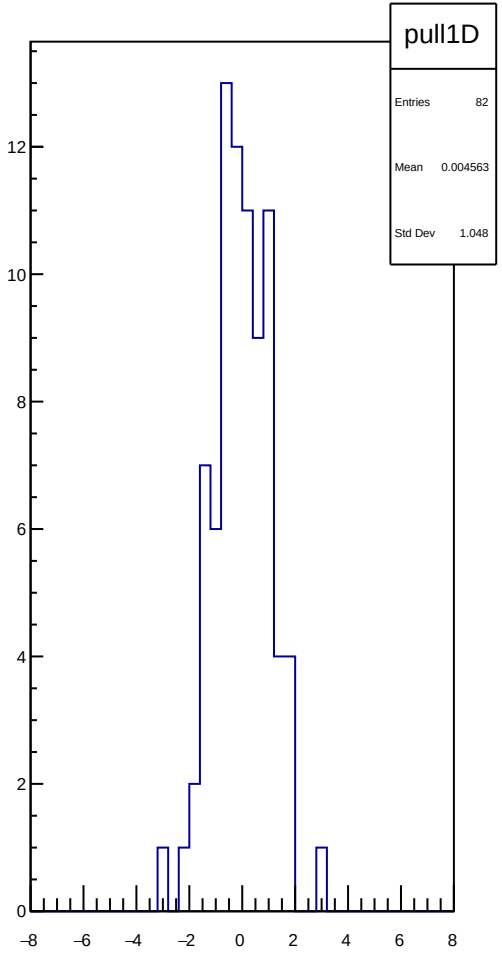

diff_bpm4eX_rms vs run
χ² / ndf 4377 / 81
p0 2.163e+04 ± 17.01
24000
23000
22000
21000
20000

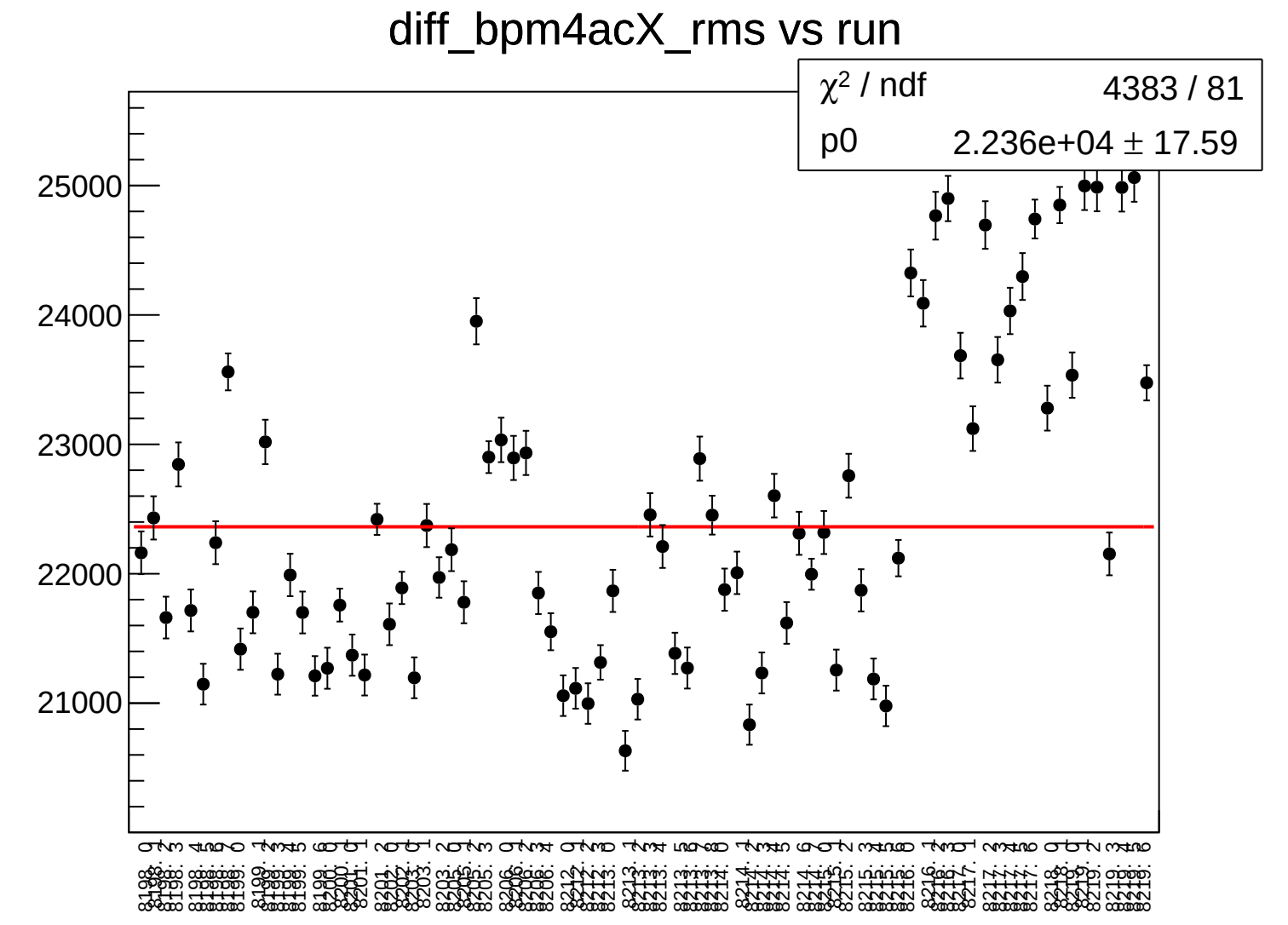

diff_bpm4eY_mean vs run
χ² / ndf 78.21 / 81
p0 8.502 ± 8.824
pull
Entries 82
Mean −508.3
Std Dev 0

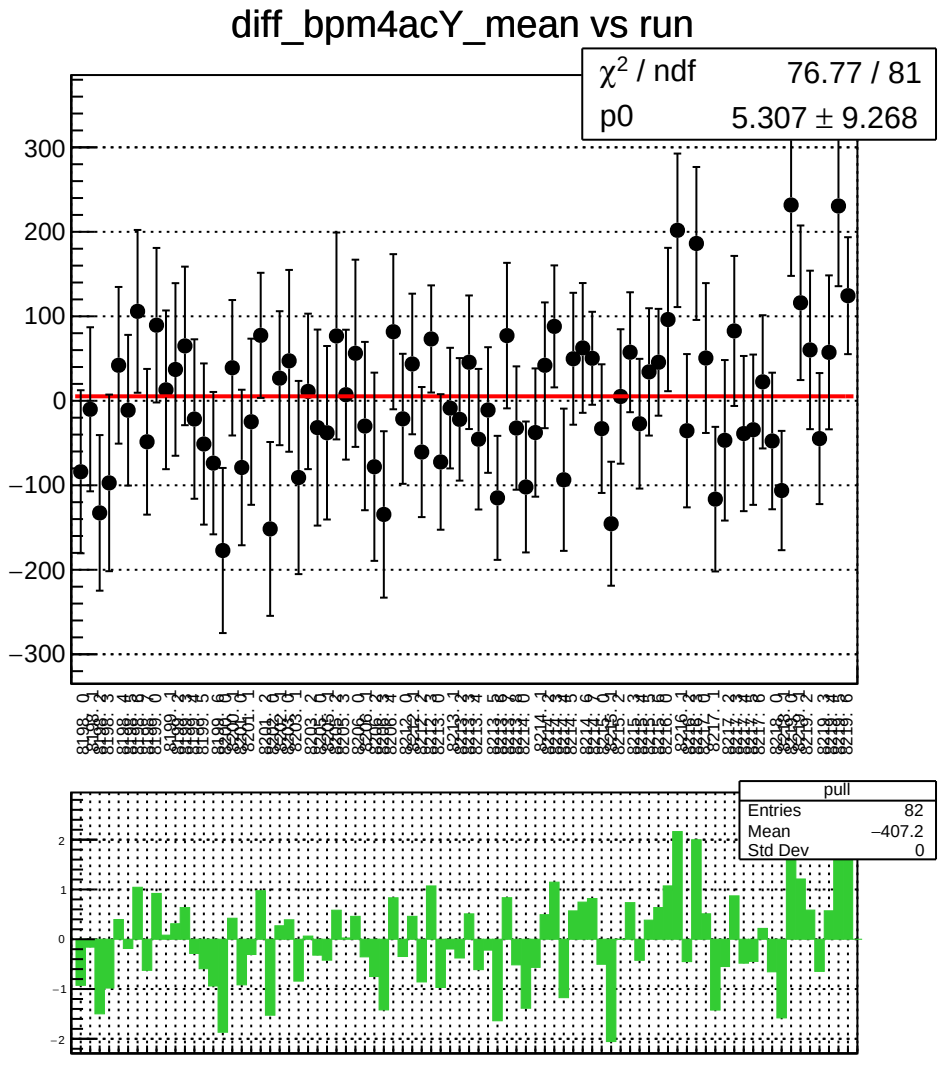

pull1D
Entries 82
Mean −0.009411
Std Dev 0.9766

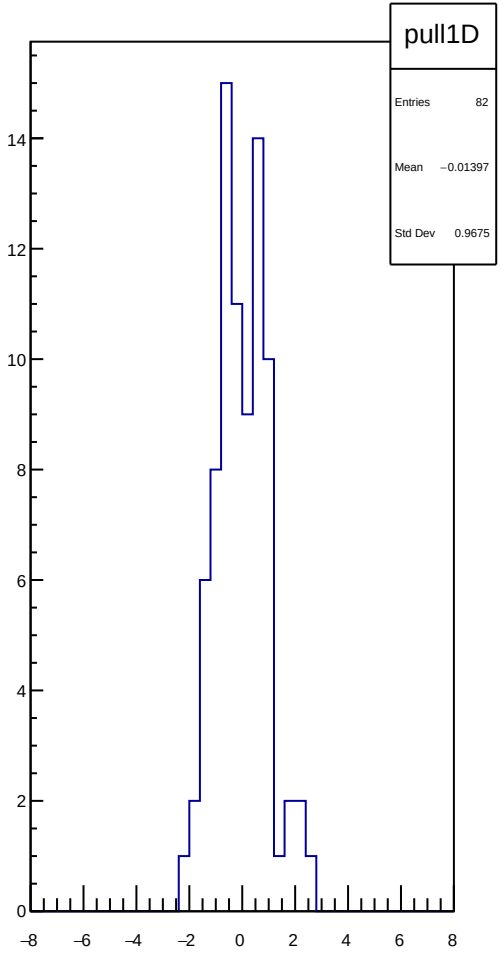

diff_bpm4eY_rms vs run
χ² / ndf 3.022e+04 / 81
p0 7870 ± 6.239
11000
10000
9000
8000
7000
6000

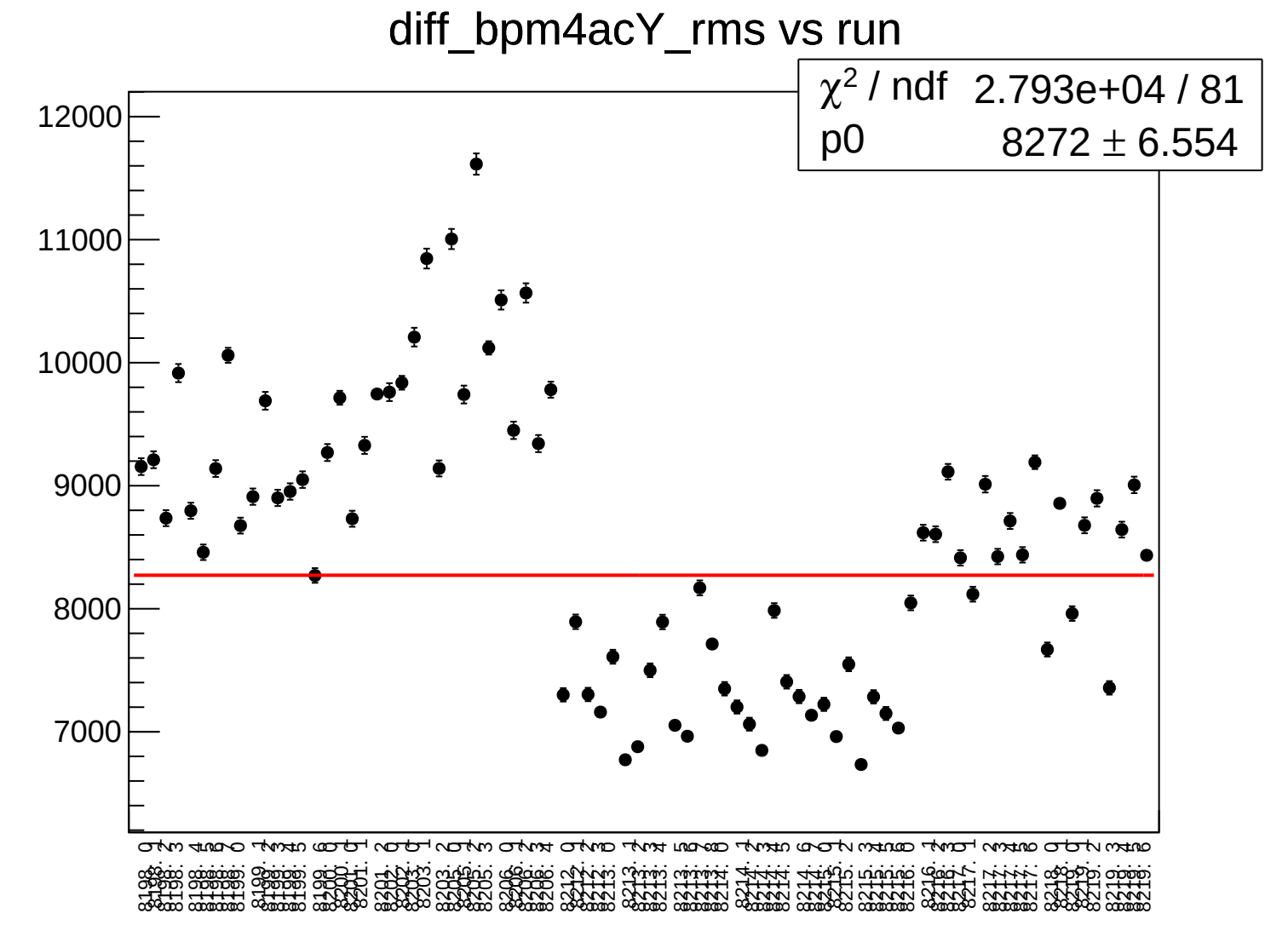

diff_bpm4acX_mean vs run
χ² / ndf 90.01 / 81
p0 −25 ± 24.87
1000
500
0
−500
−1000
pull
Entries 82
Mean −481.1
Std Dev 0
3
2
1
0
−1
−2
−3

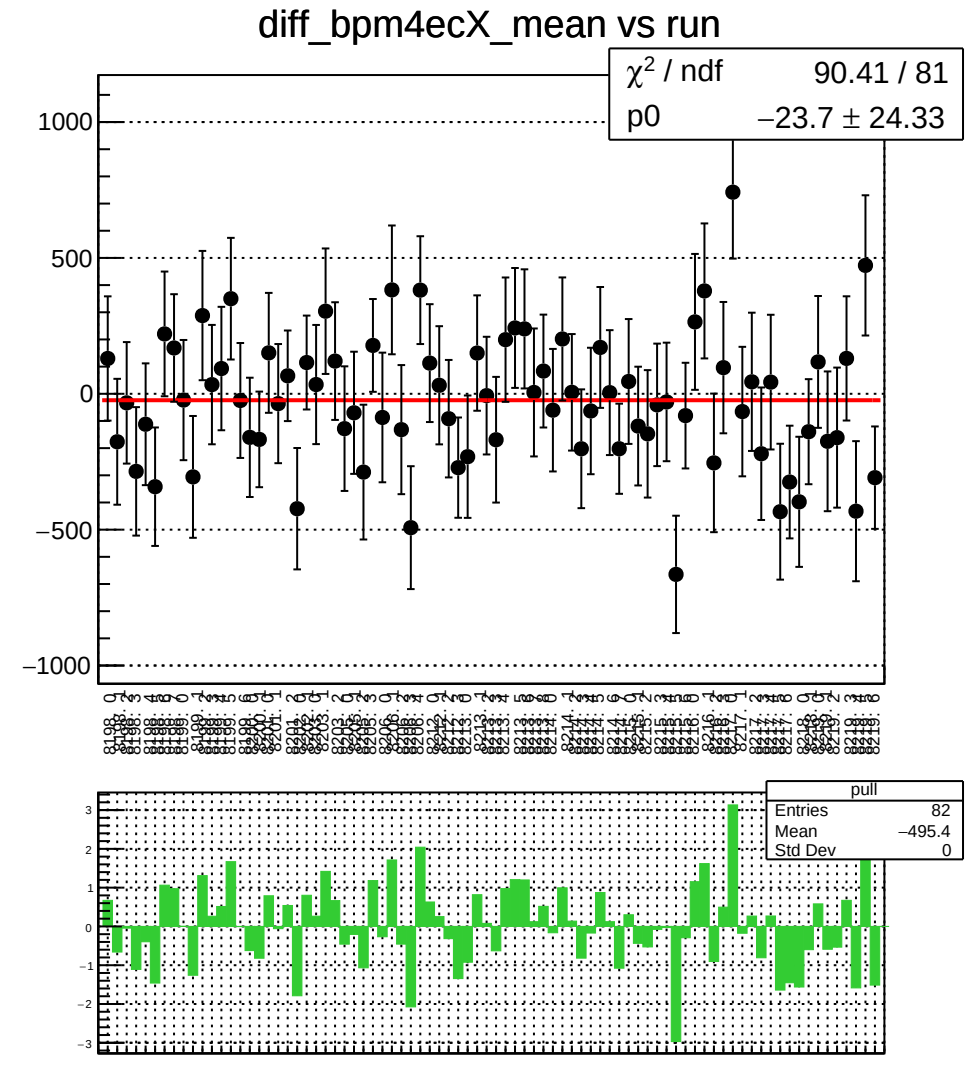

pull1D
Entries 82
Mean 0.004563
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

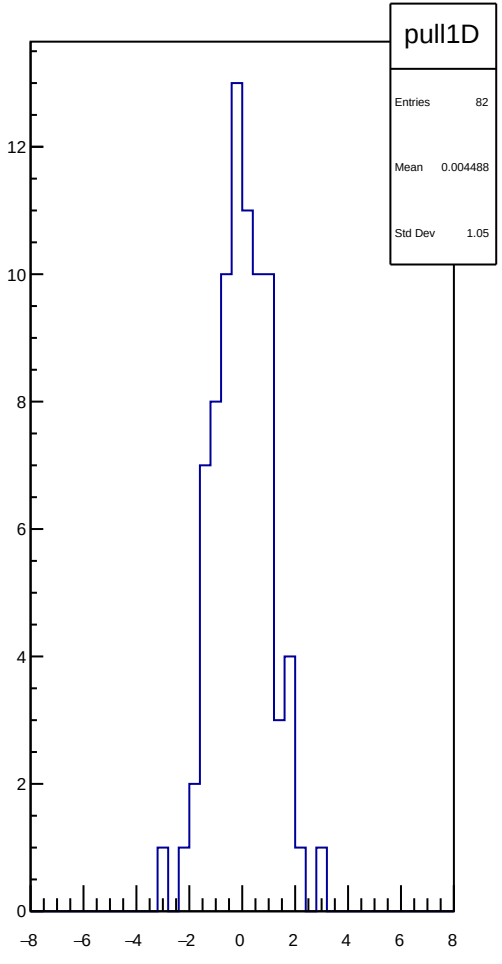

diff_bpm4acX_rms vs run
χ² / ndf 4383 / 81
p0 2.236e+04 ± 17.59
25000
24000
23000
22000
21000

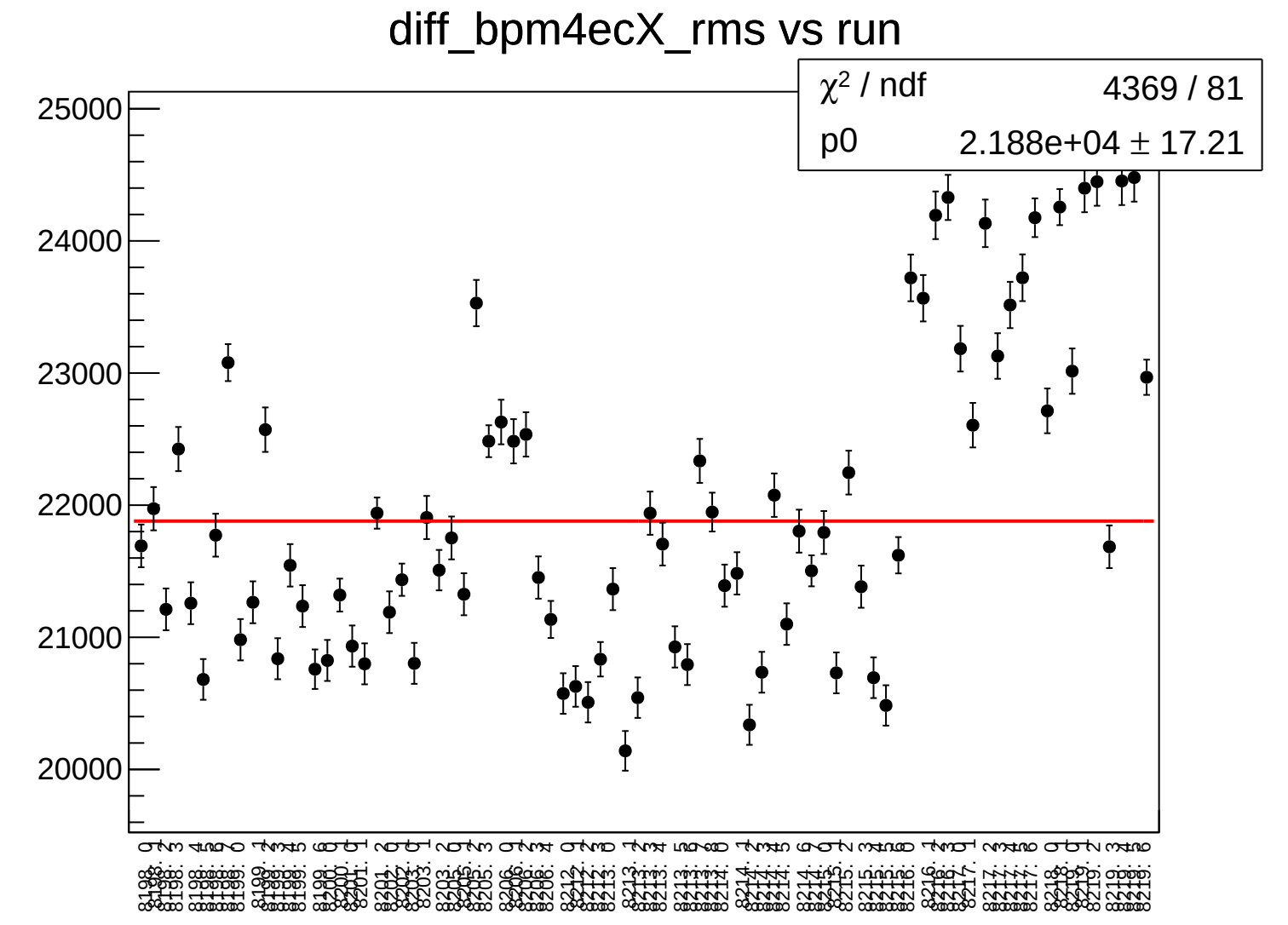

diff_bpm4acY_mean vs run
χ² / ndf 76.77 / 81
p0 5.307 ± 9.268
pull
Entries 82
Mean −407.2
Std Dev 0

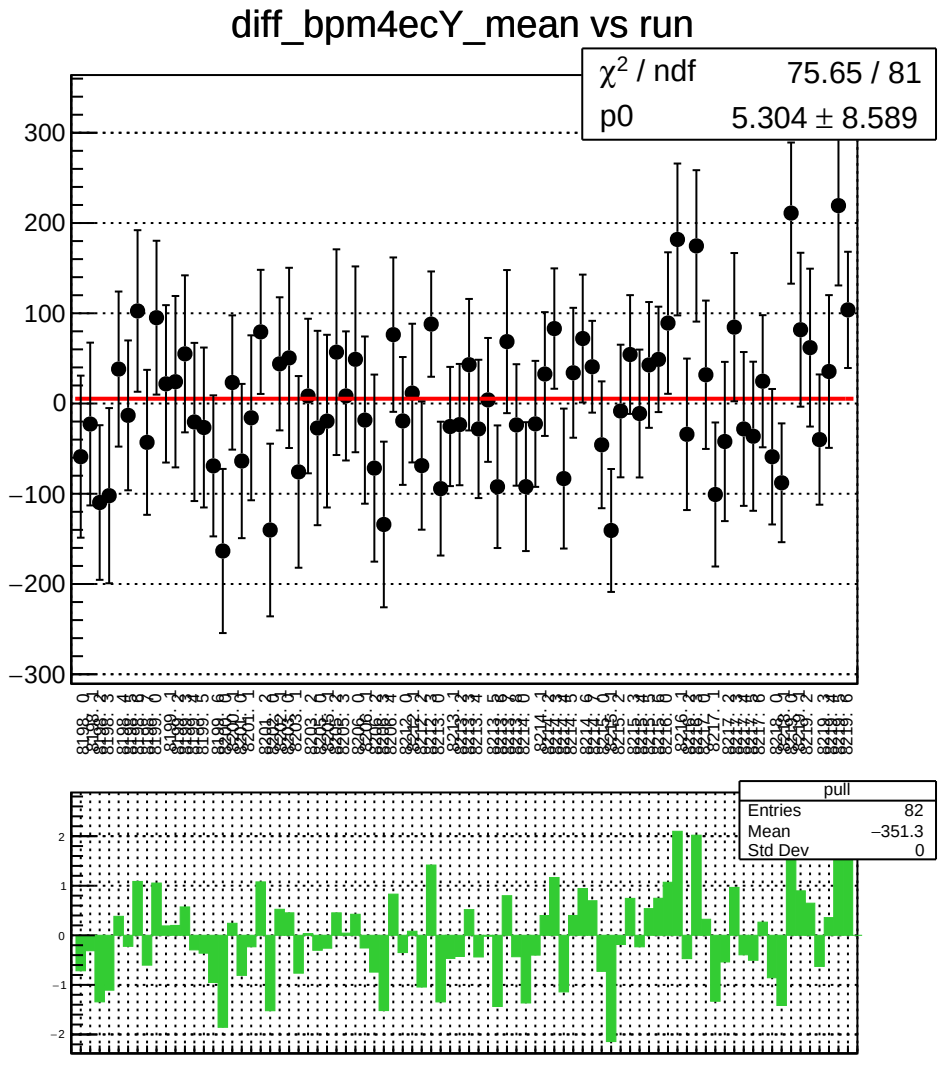

pull1D
Entries 82
Mean −0.01397
Std Dev 0.9675

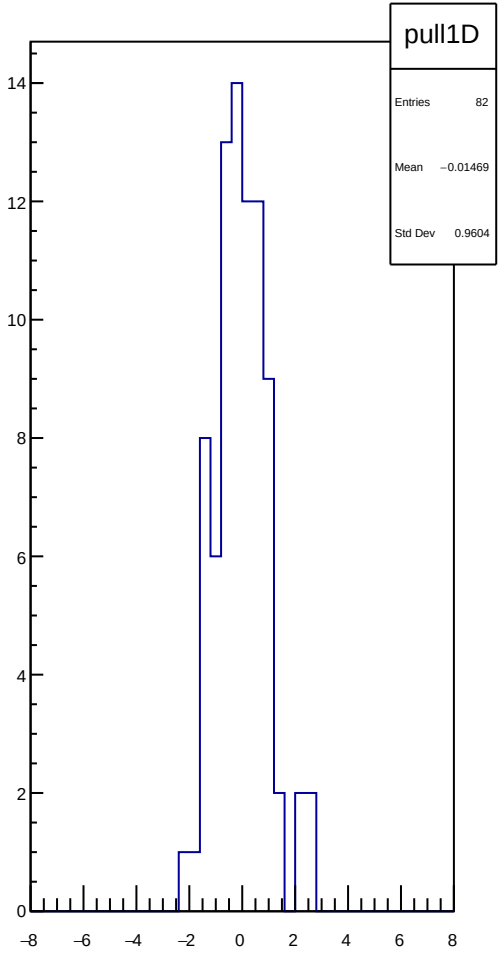

diff_bpm4acY_rms vs run
χ² / ndf 2.793e+04 / 81
p0 8272 ± 6.554
12000
11000
10000
9000
8000
7000

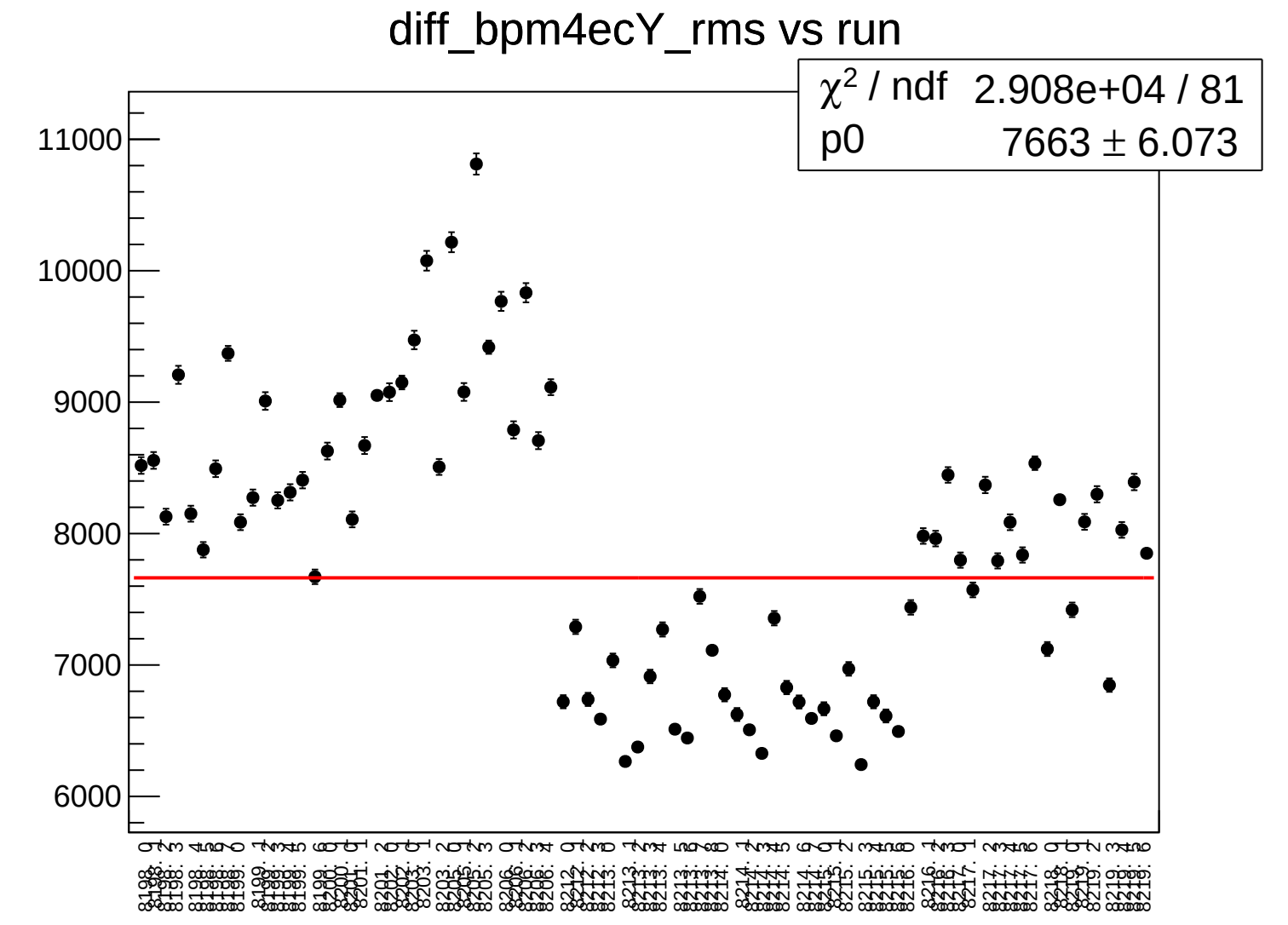

diff_bpm4ecX_mean vs run
χ² / ndf 90.41 / 81
p0 −23.7 ± 24.33
1000
500
0
−500
−1000
pull
Entries 82
Mean −495.4
Std Dev 0
3
2
1
0
−1
−2
−3

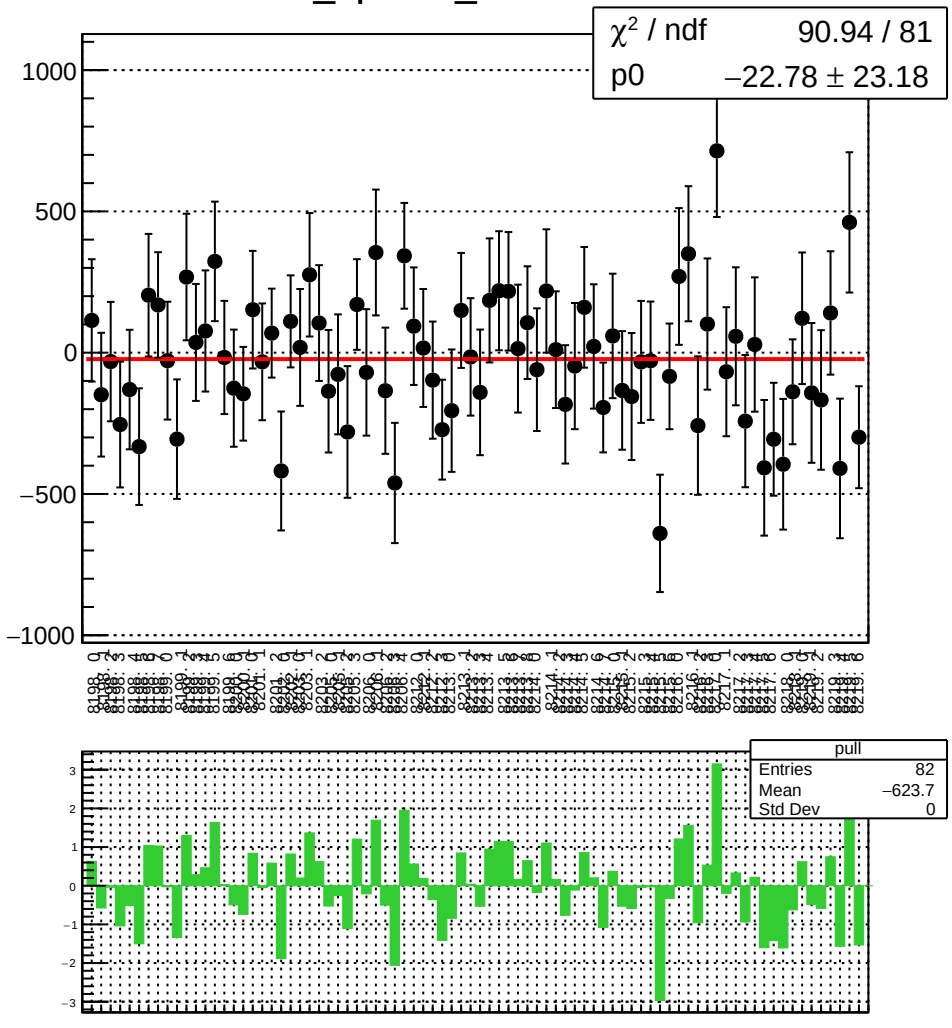

pull1D
Entries 82
Mean 0.004488
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

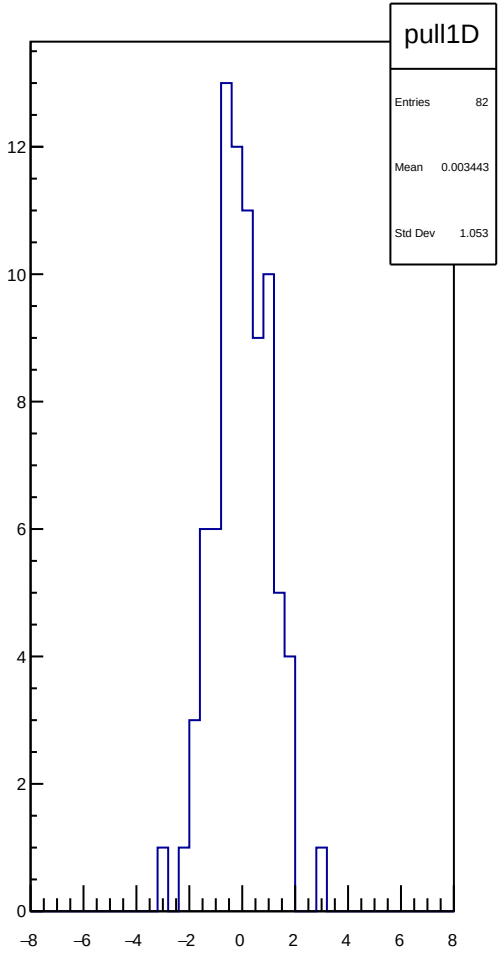

diff_bpm4ecX_rms vs run
χ² / ndf 4369 / 81
p0 2.188e+04 ± 17.21
25000
24000
23000
22000
21000
20000

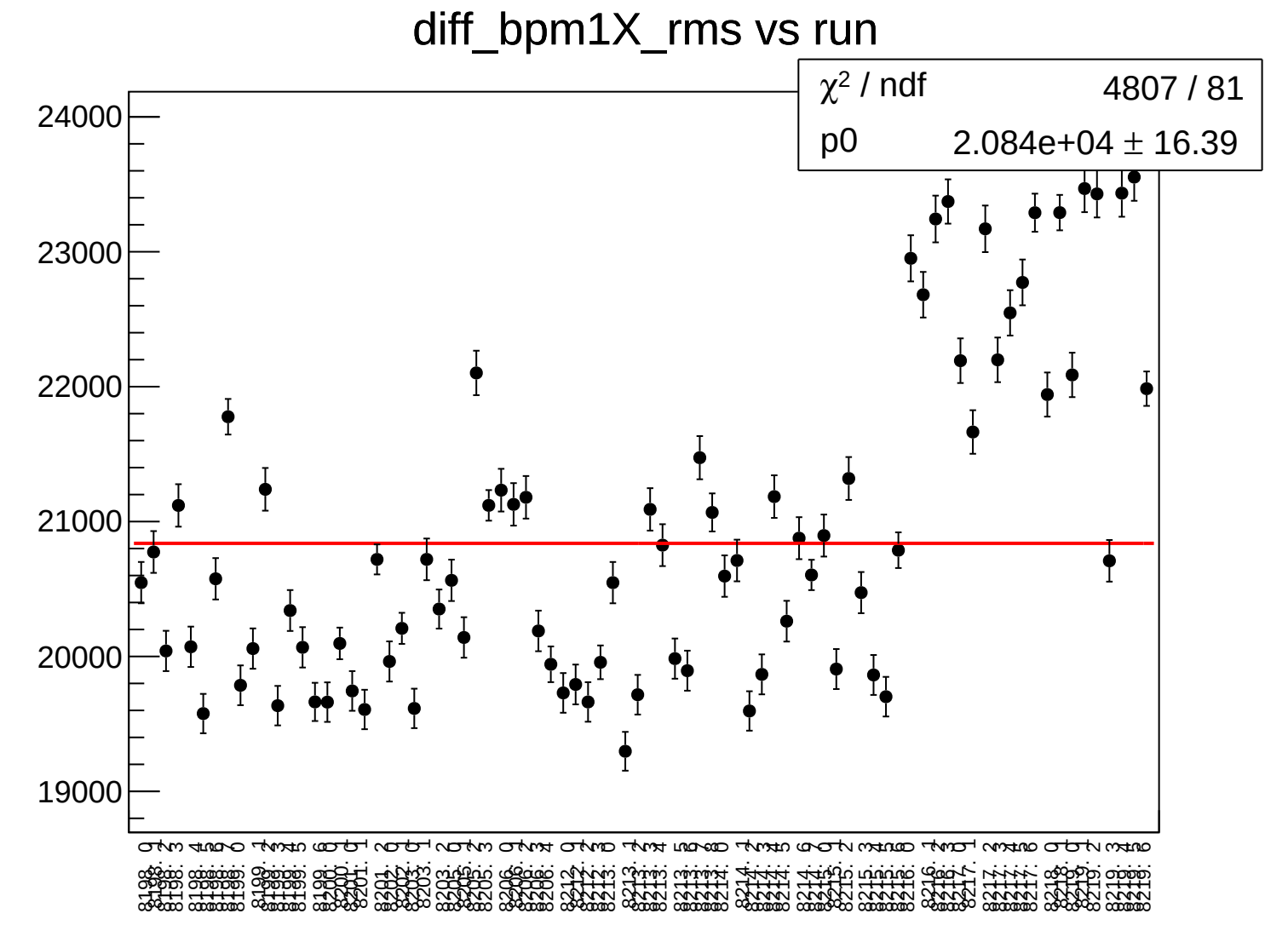

diff_bpm4ecY_mean vs run
χ² / ndf 75.65 / 81
p0 5.304 ± 8.589
pull
Entries 82
Mean −351.3
Std Dev 0

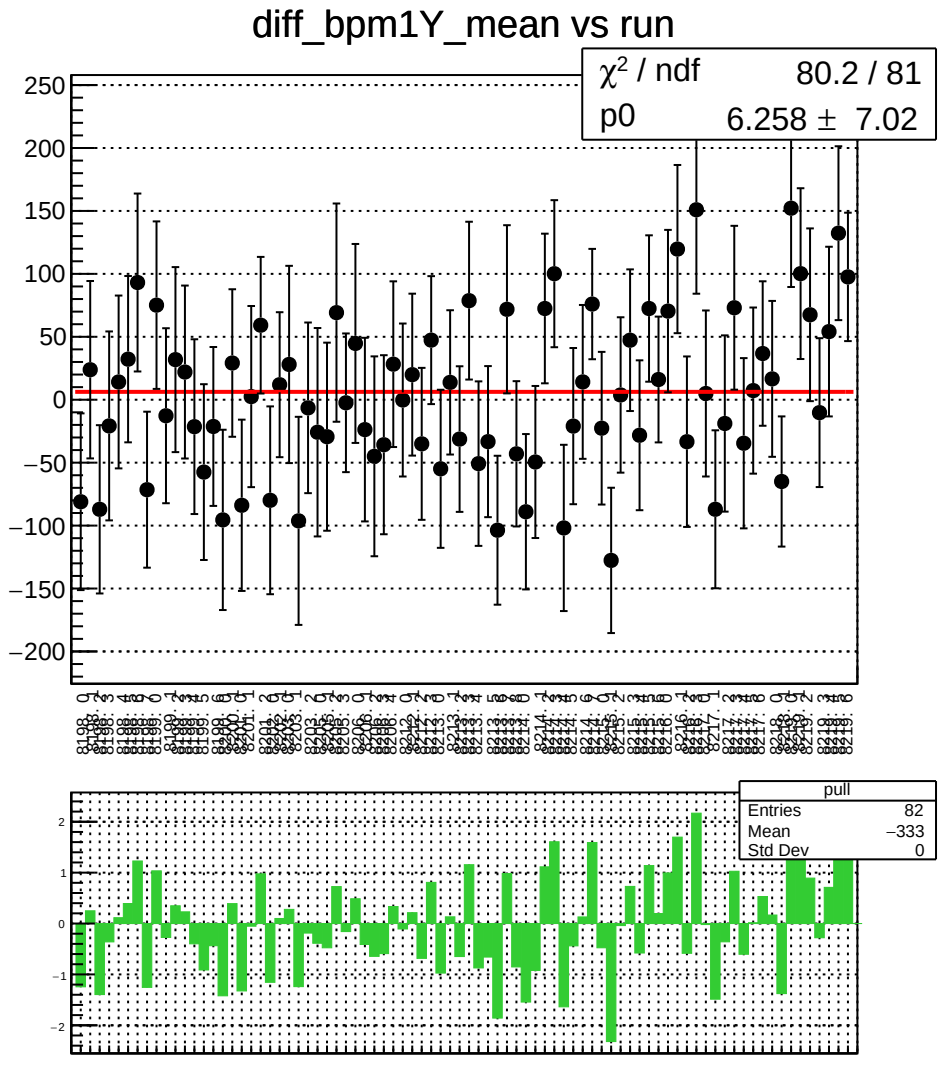

pull1D
Entries 82
Mean −0.01469
Std Dev 0.9604

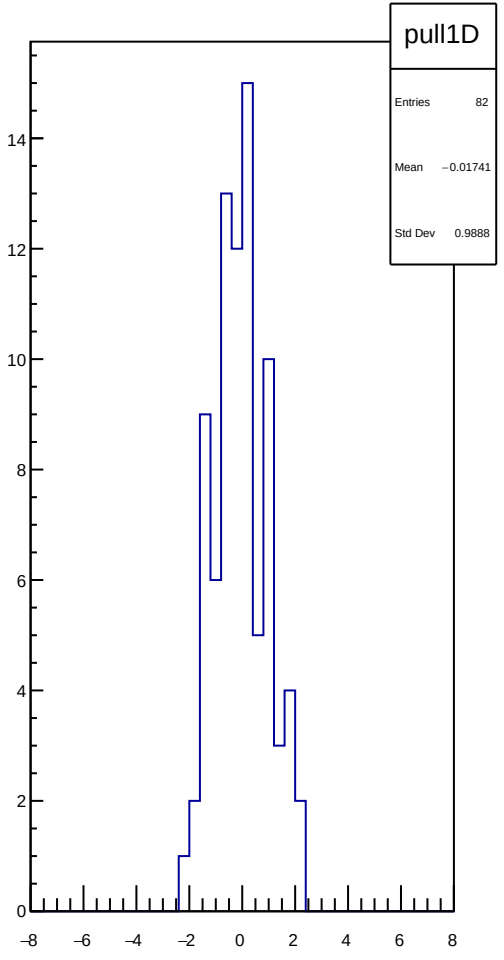

diff_bpm4ecY_rms vs run
χ² / ndf 2.908e+04 / 81
p0 7663 ± 6.073
11000
10000
9000
8000
7000
6000

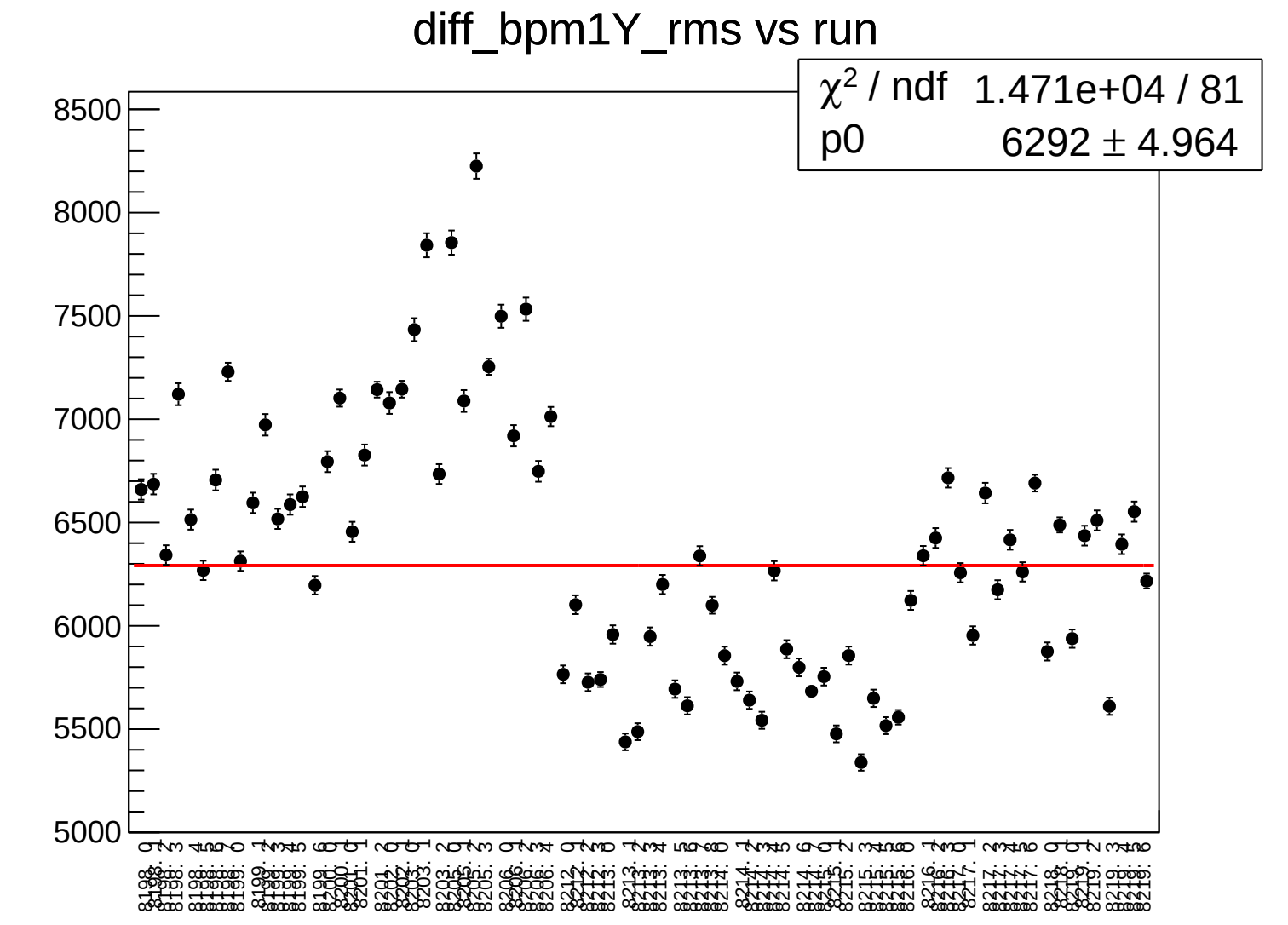

diff_bpm1X_mean vs run
χ² / ndf 90.94 / 81
p0 −22.78 ± 23.18
1000
500
0
−500
−1000
pull
Entries 82
Mean −623.7
Std Dev 0
3
2
1
0
−1
−2
−3

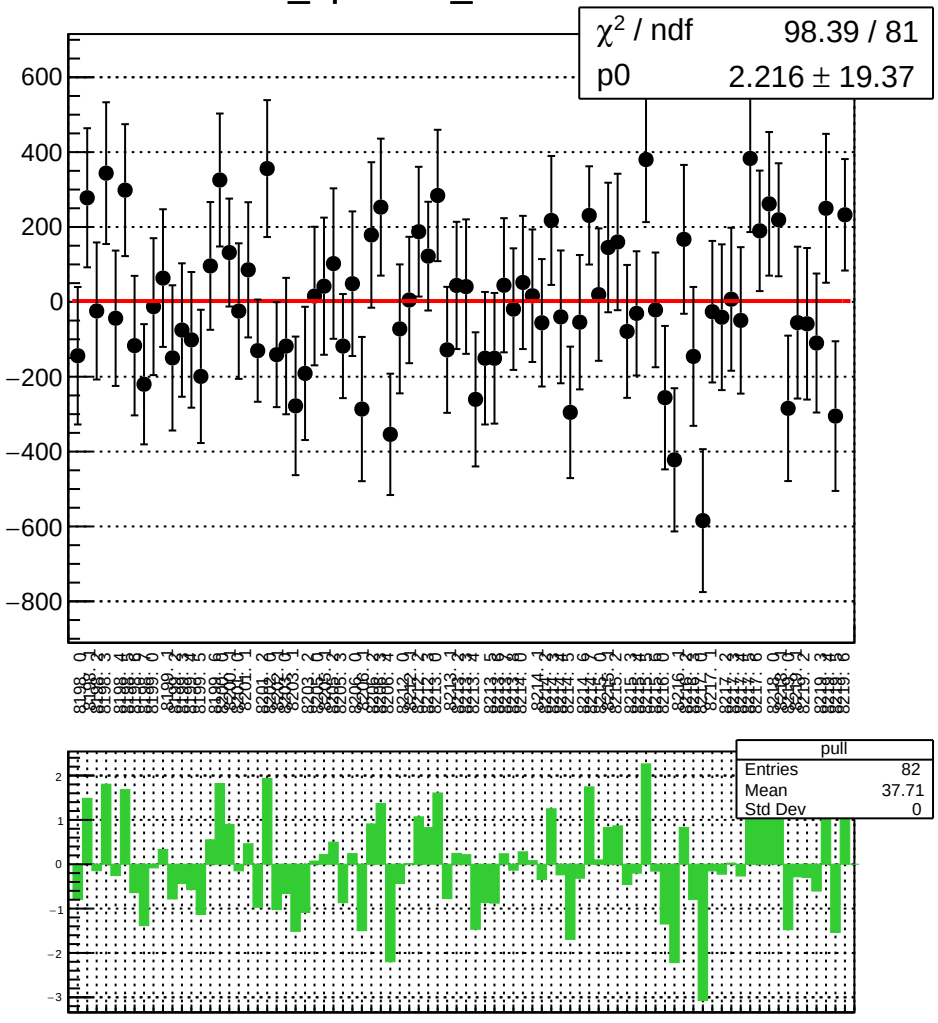

pull1D
Entries 82
Mean 0.003443
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

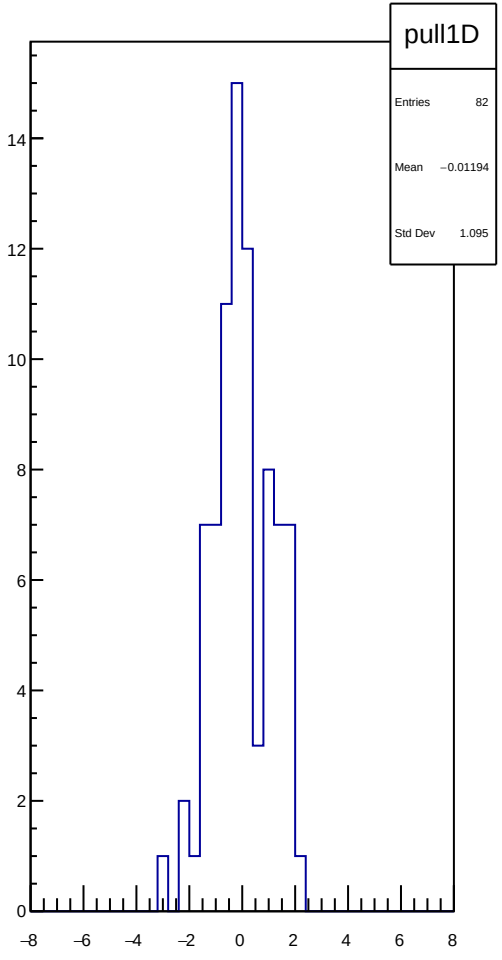

diff_bpm1X_rms vs run
χ² / ndf 4807 / 81
p0 2.084e+04 ± 16.39
24000
23000
22000
21000
20000
19000


diff_bpm1Y_mean vs run
χ² / ndf 80.2 / 81
p0 6.258 ± 7.02
pull
Entries 82
Mean −333
Std Dev 0

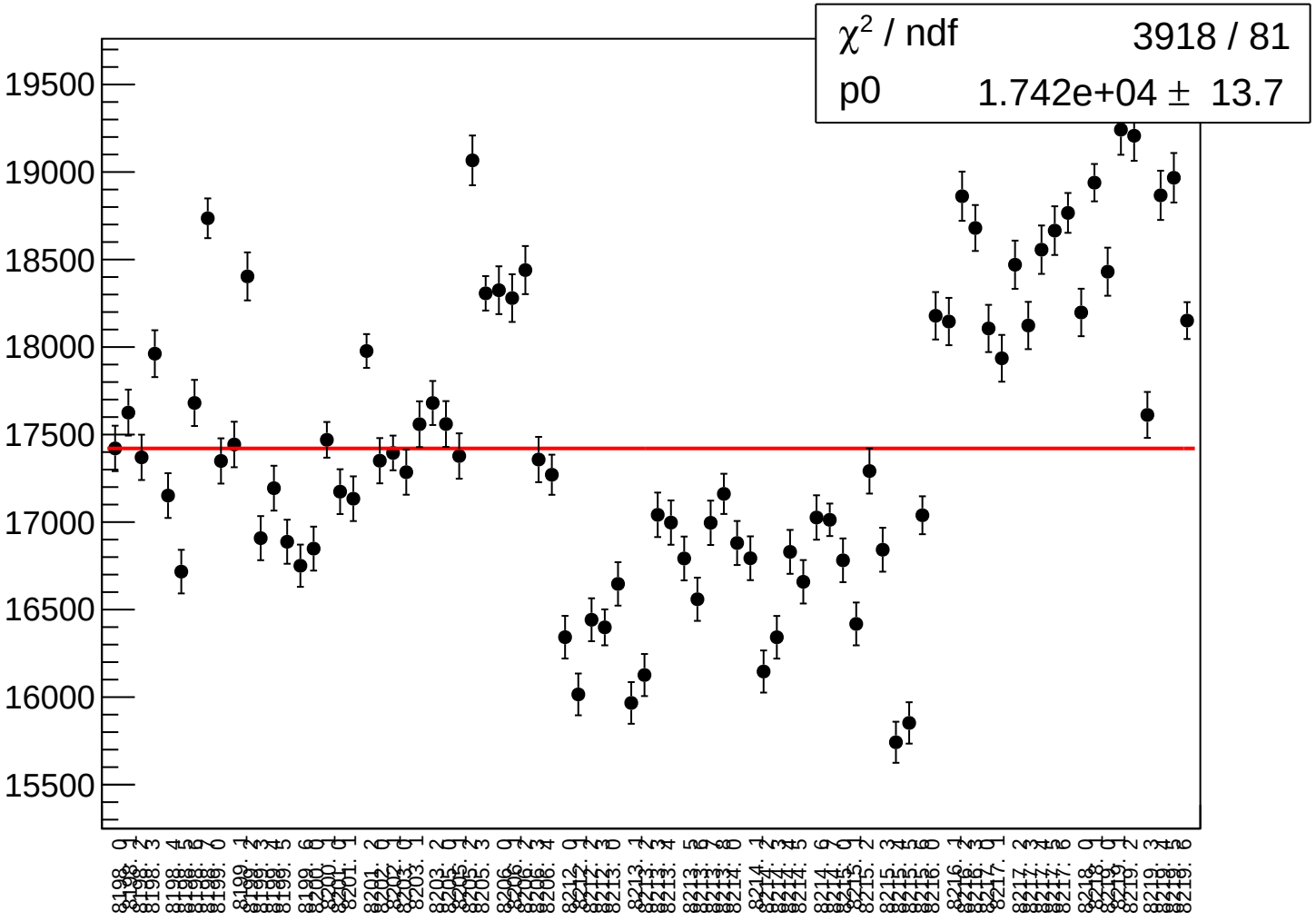

pull1D
Entries 82
Mean −0.01741
Std Dev 0.9888

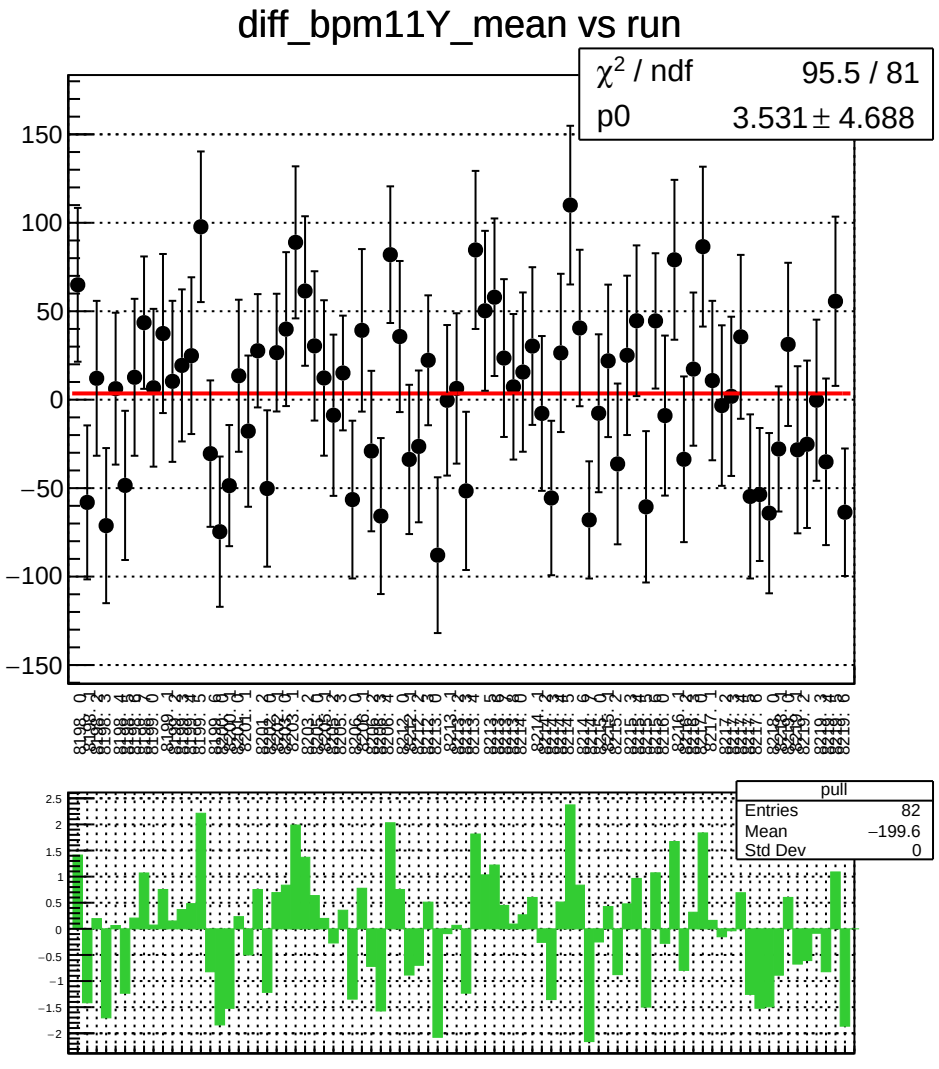

diff_bpm1Y_rms vs run
χ² / ndf 1.471e+04 / 81
p0 6292 ± 4.964
8500
8000
7500
7000
6500
6000
5500
5000

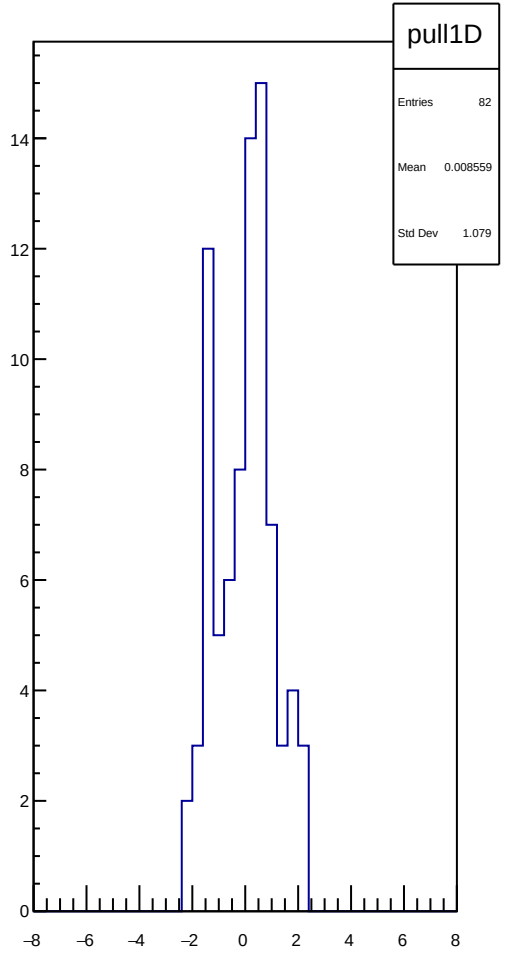

diff_bpm11X_mean vs run
χ² / ndf 98.39 / 81
p0 2.216 ± 19.37
pull
Entries 82
Mean 37.71
Std Dev 0

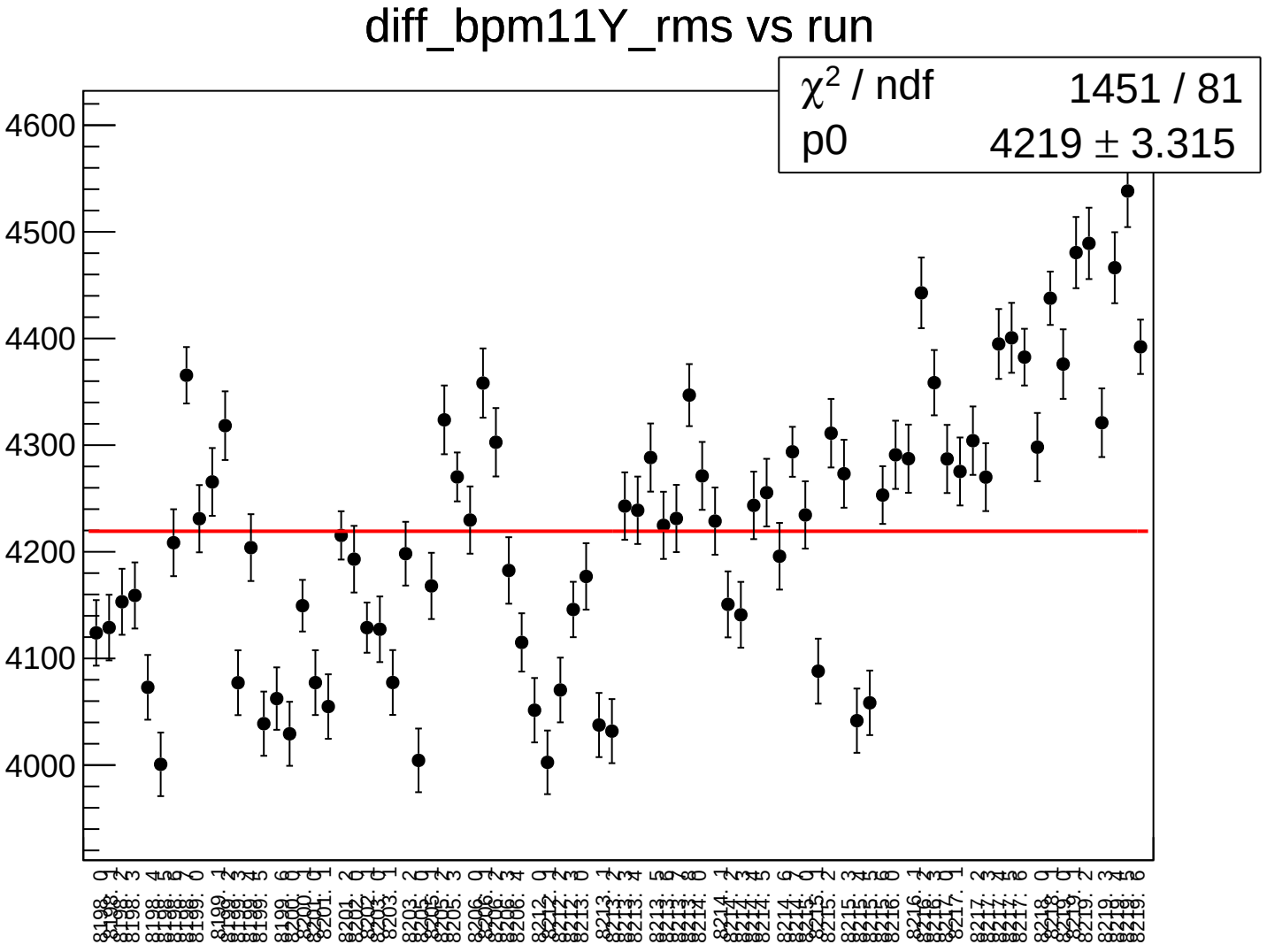

pull1D
Entries 82
Mean −0.01194
Std Dev 1.095

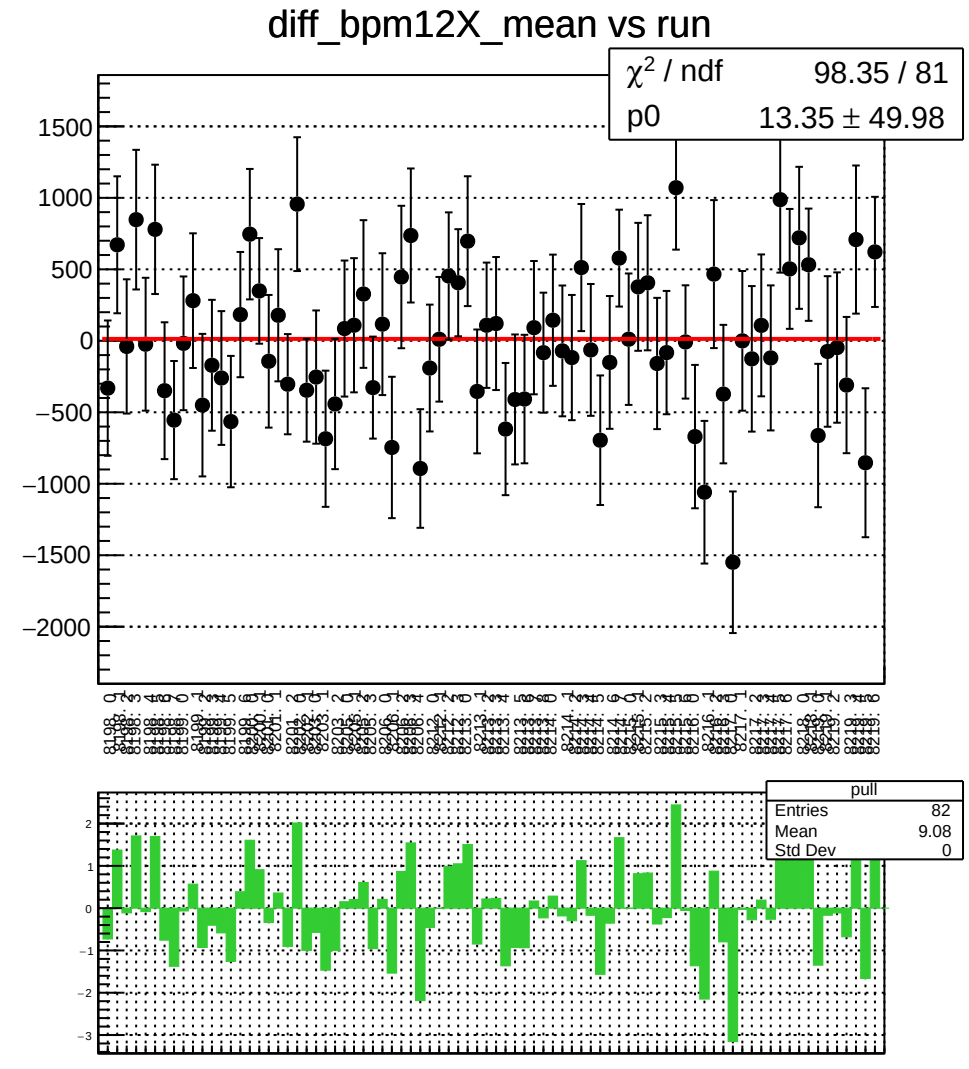
# diff_bpm11X_rms vs run

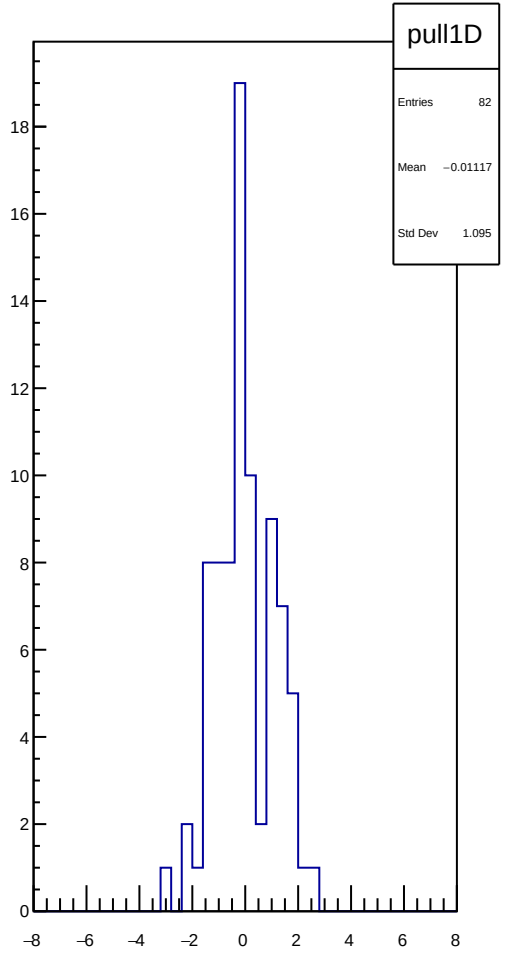


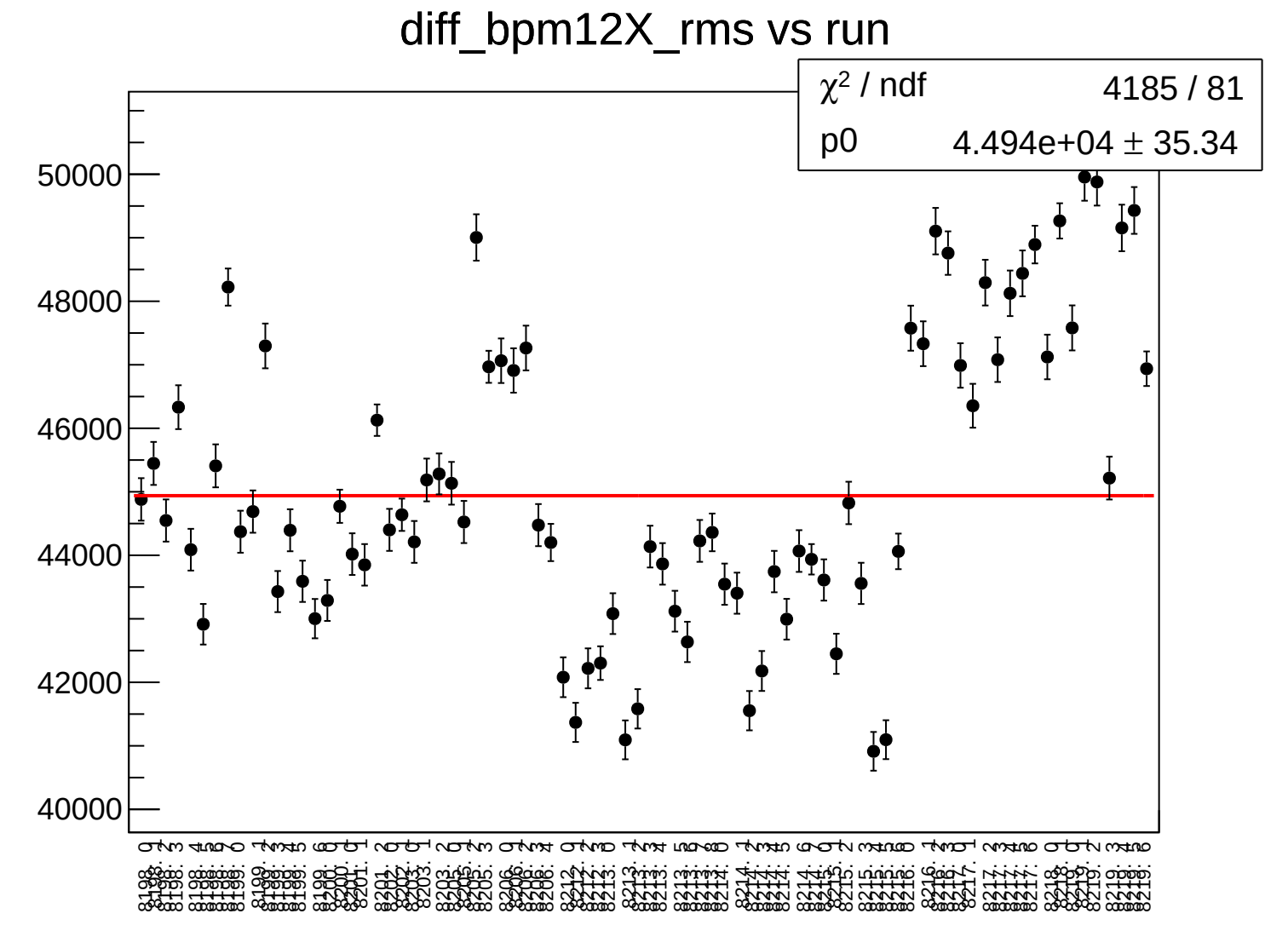

diff_bpm11Y_mean vs run
χ² / ndf 95.5 / 81
p0 3.531 ± 4.688
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −199.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

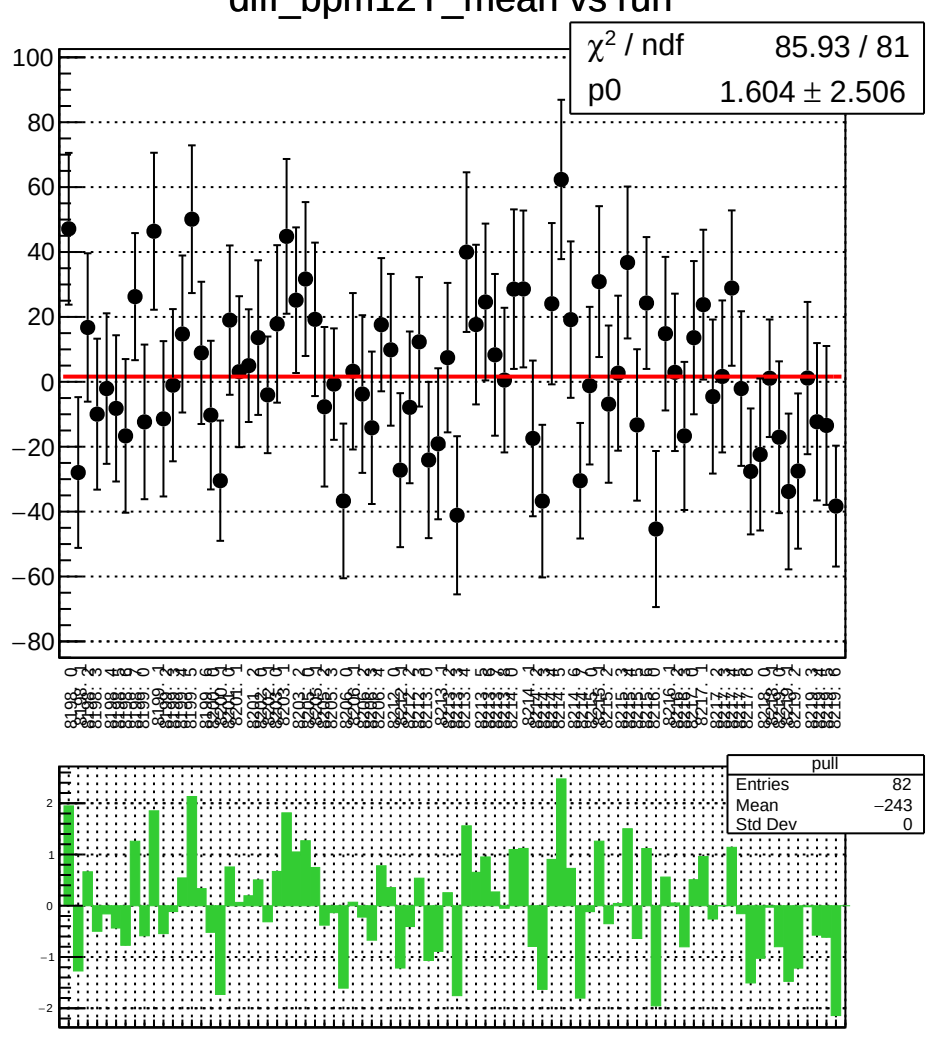

pull1D
Entries 82
Mean 0.008559
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

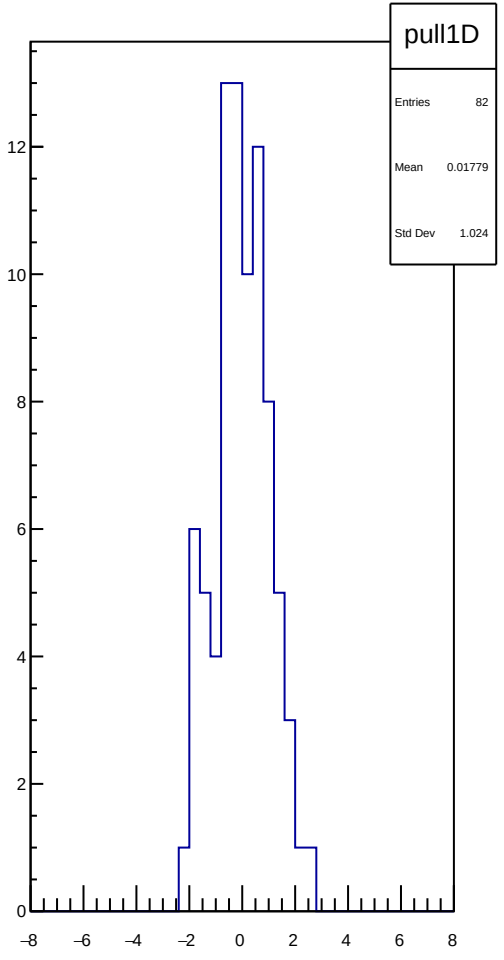

diff_bpm11Y_rms vs run
χ² / ndf 1451 / 81
p0 4219 ± 3.315
4600
4500
4400
4300
4200
4100
4000

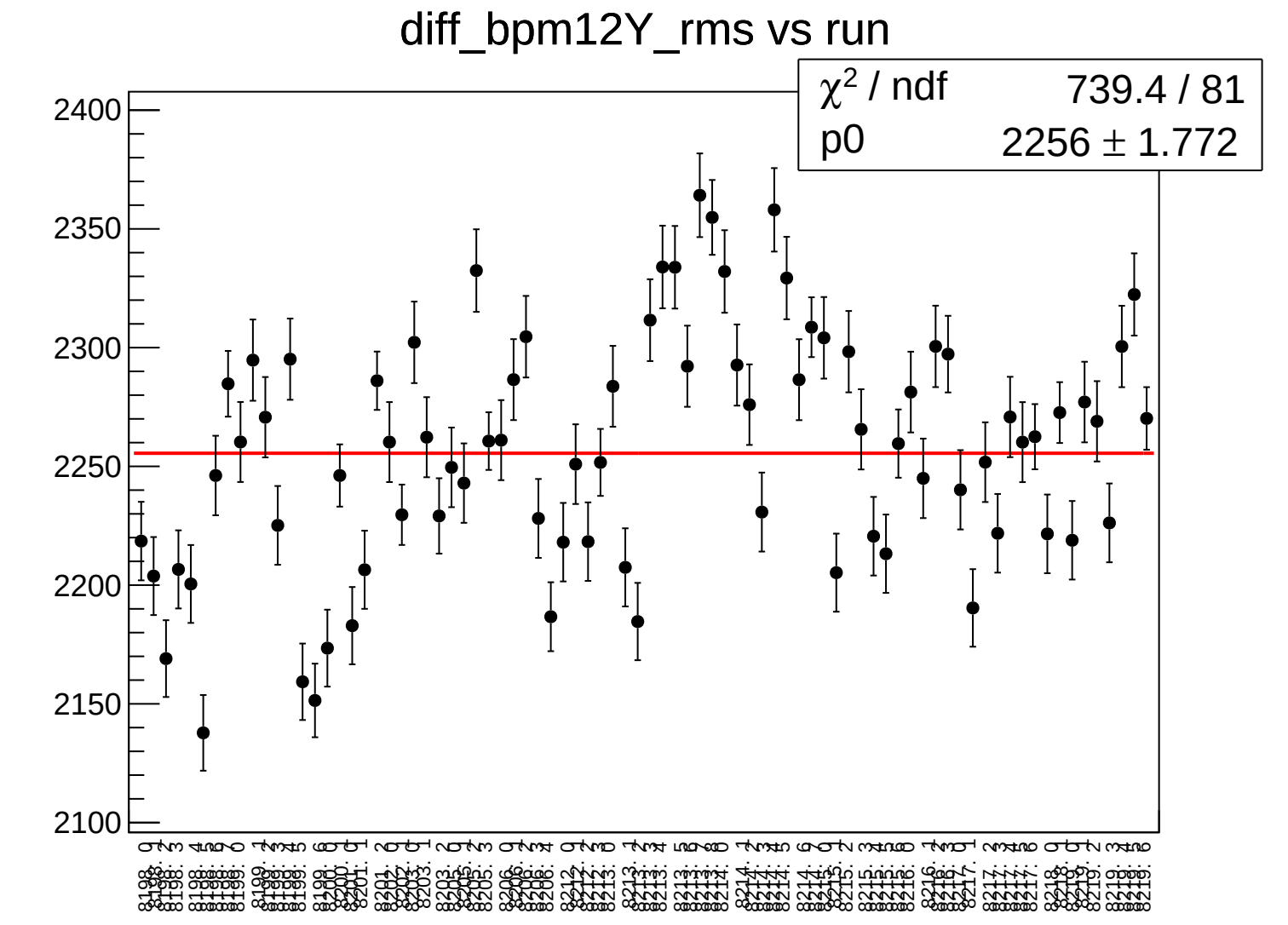

diff_bpm12X_mean vs run
χ² / ndf 98.35 / 81
p0 13.35 ± 49.98
pull
Entries 82
Mean 9.08
Std Dev 0

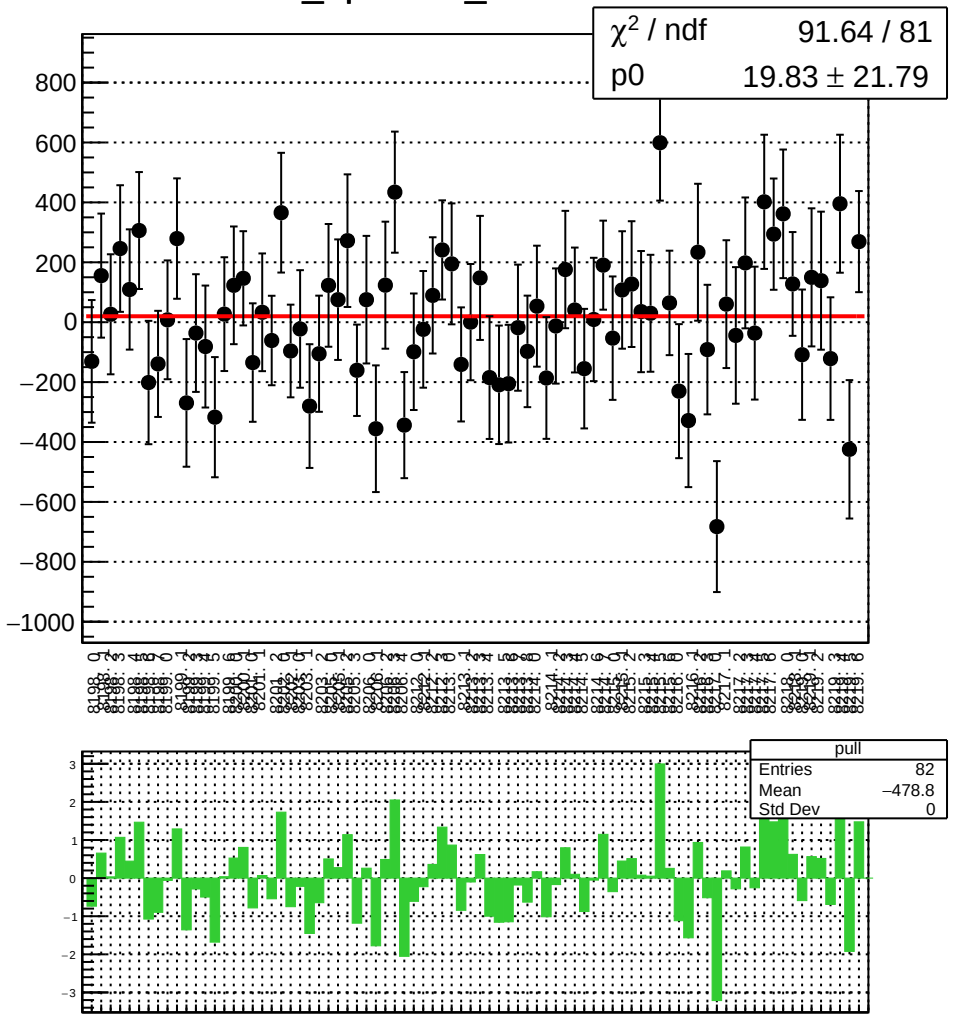

pull1D
Entries 82
Mean −0.01117
Std Dev 1.095

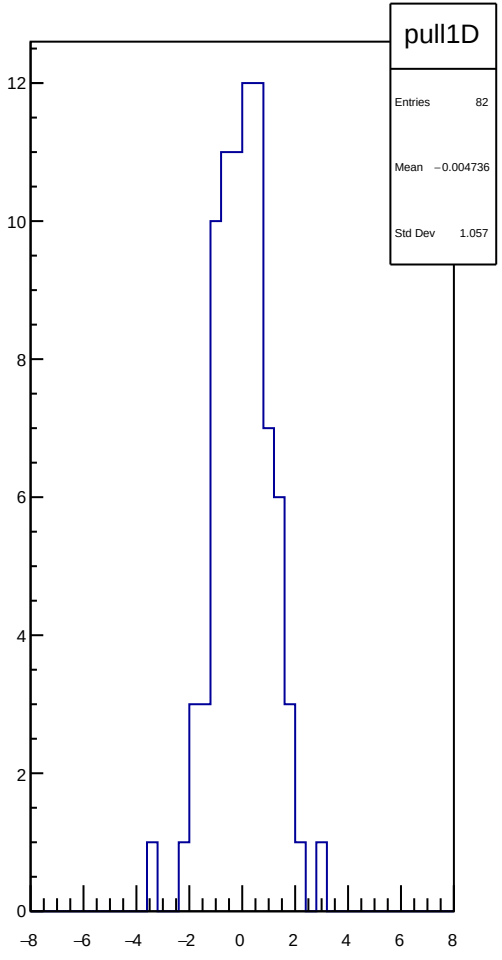

diff_bpm12X_rms vs run
χ² / ndf 4185 / 81
p0 4.494e+04 ± 35.34
50000
48000
46000
44000
42000
40000

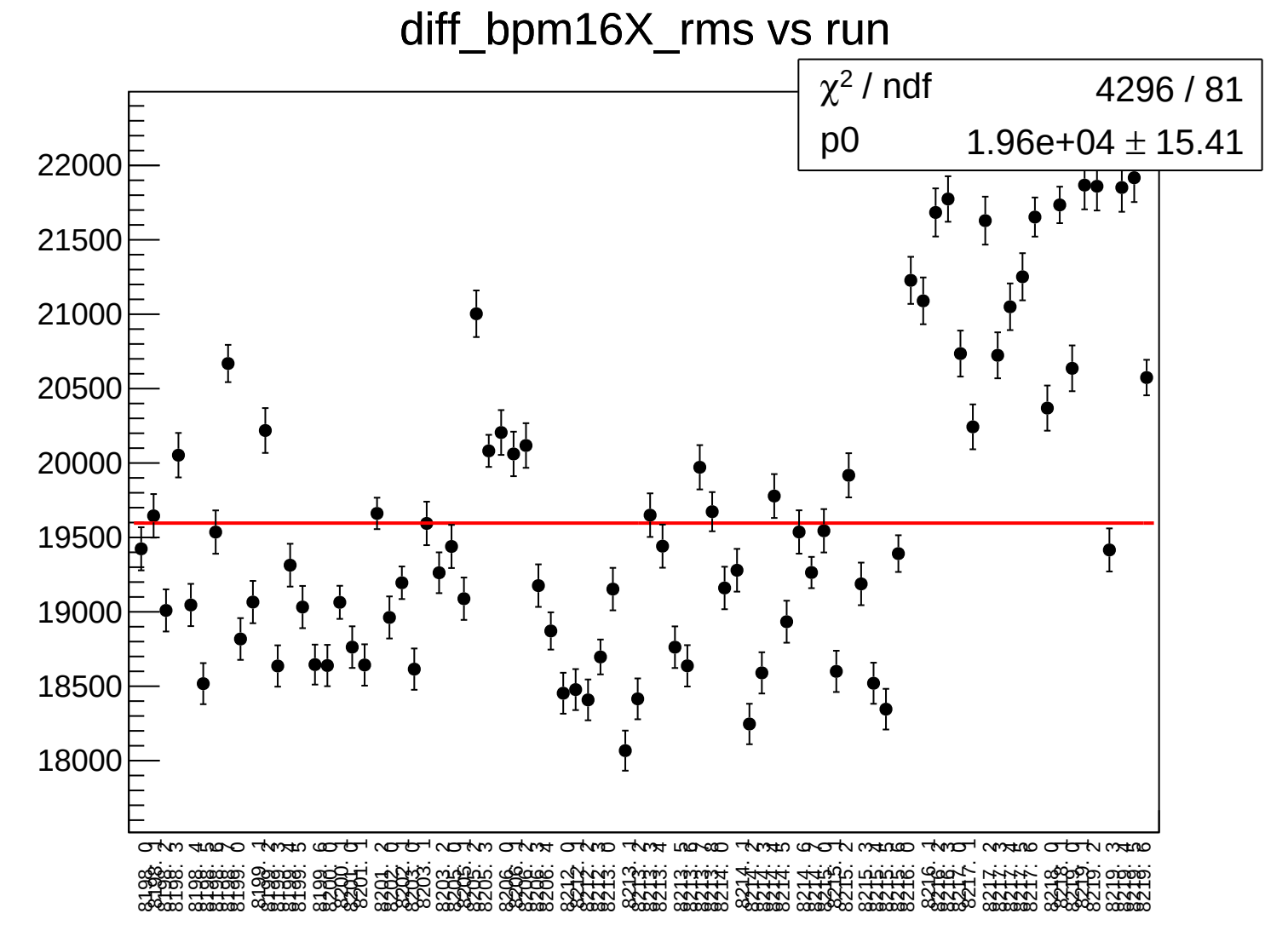

diff_bpm12Y_mean vs run
χ² / ndf 85.93 / 81
p0 1.604 ± 2.506
pull
Entries 82
Mean −243
Std Dev 0

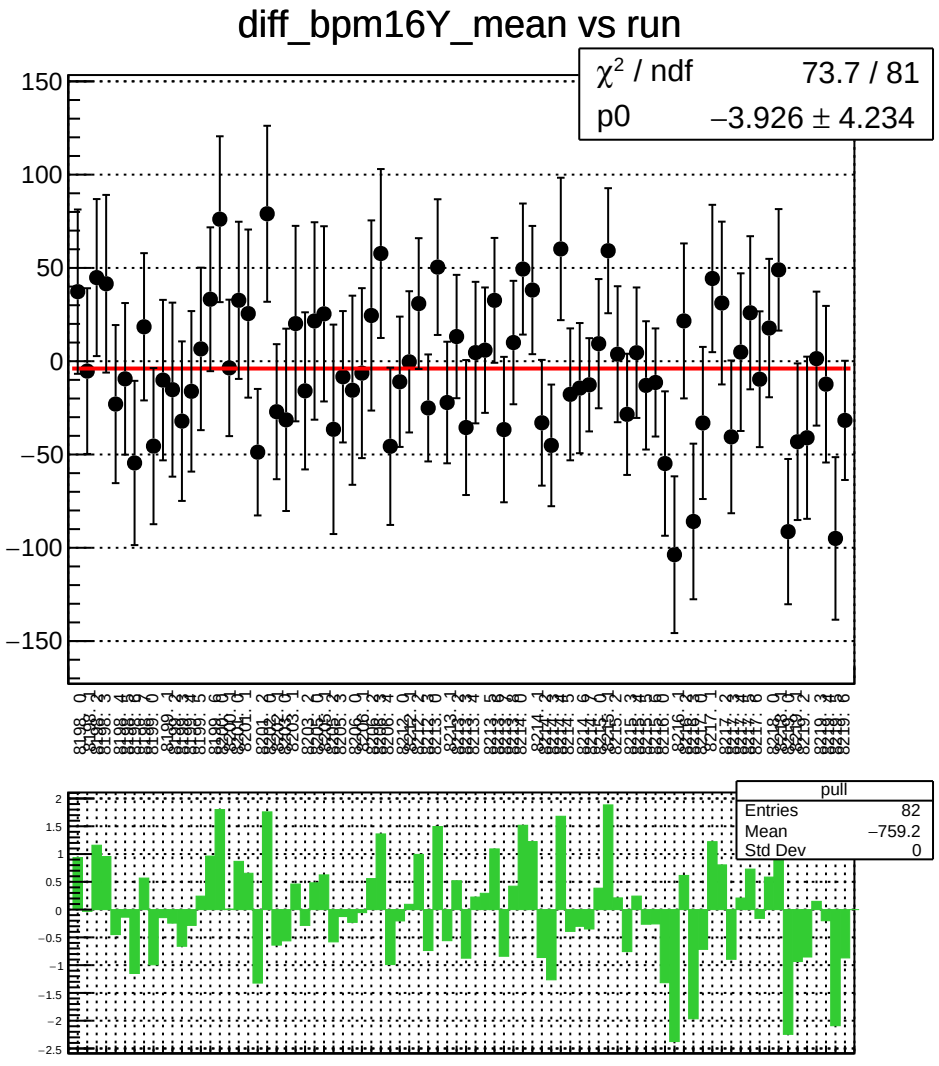

pull1D
Entries 82
Mean 0.01779
Std Dev 1.024

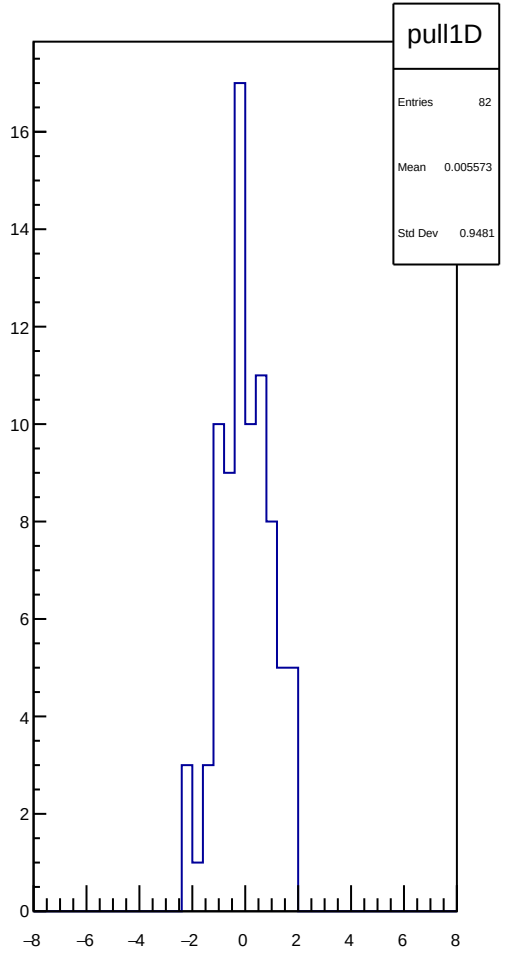

diff_bpm12Y_rms vs run
χ² / ndf 739.4 / 81
p0 2256 ± 1.772
2400
2350
2300
2250
2200
2150
2100

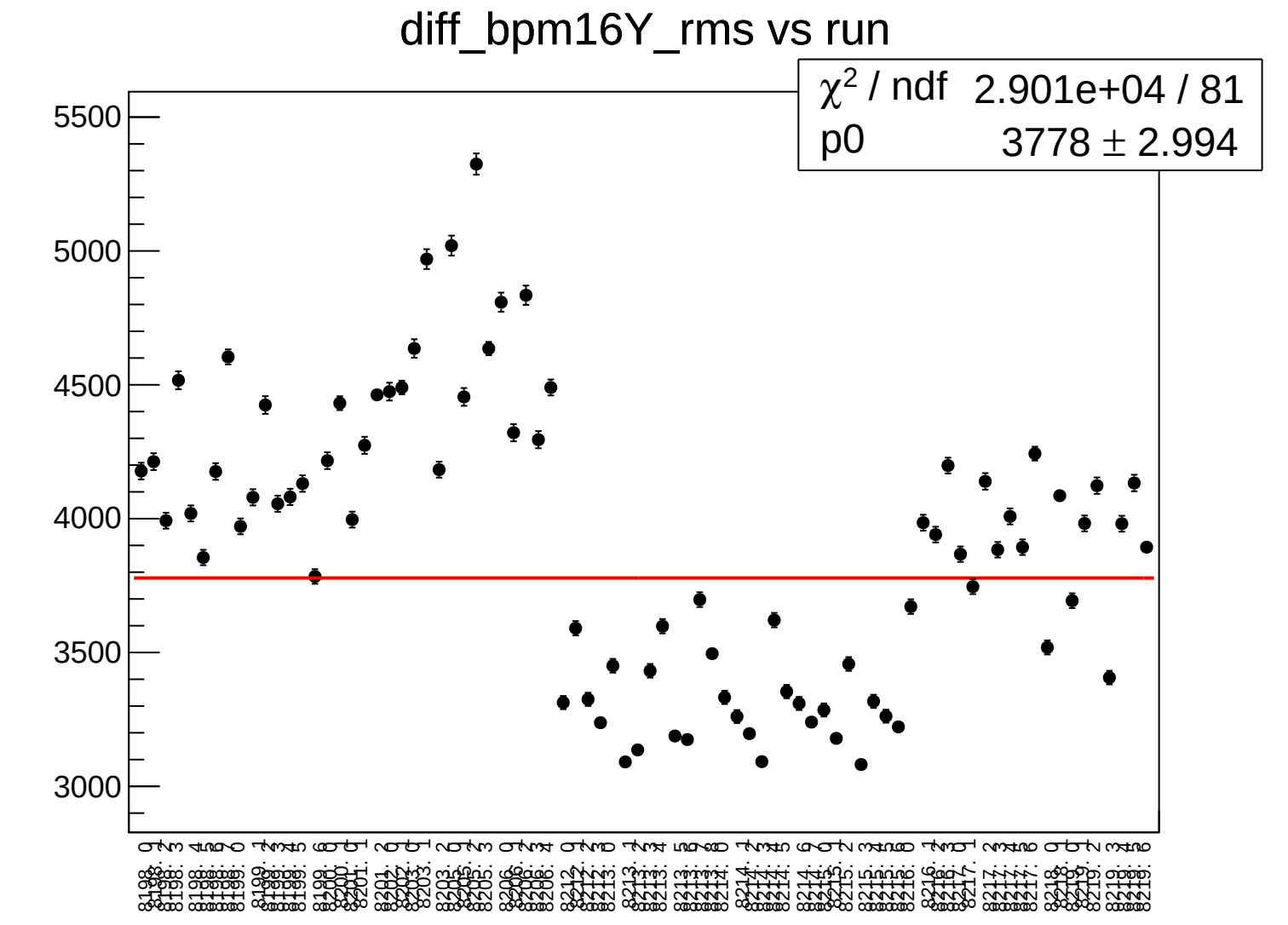

diff_bpm16X_mean vs run
$\chi^2$ / ndf 91.64 / 81
p0 19.83 ± 21.79
pull
Entries 82
Mean −478.8
Std Dev 0

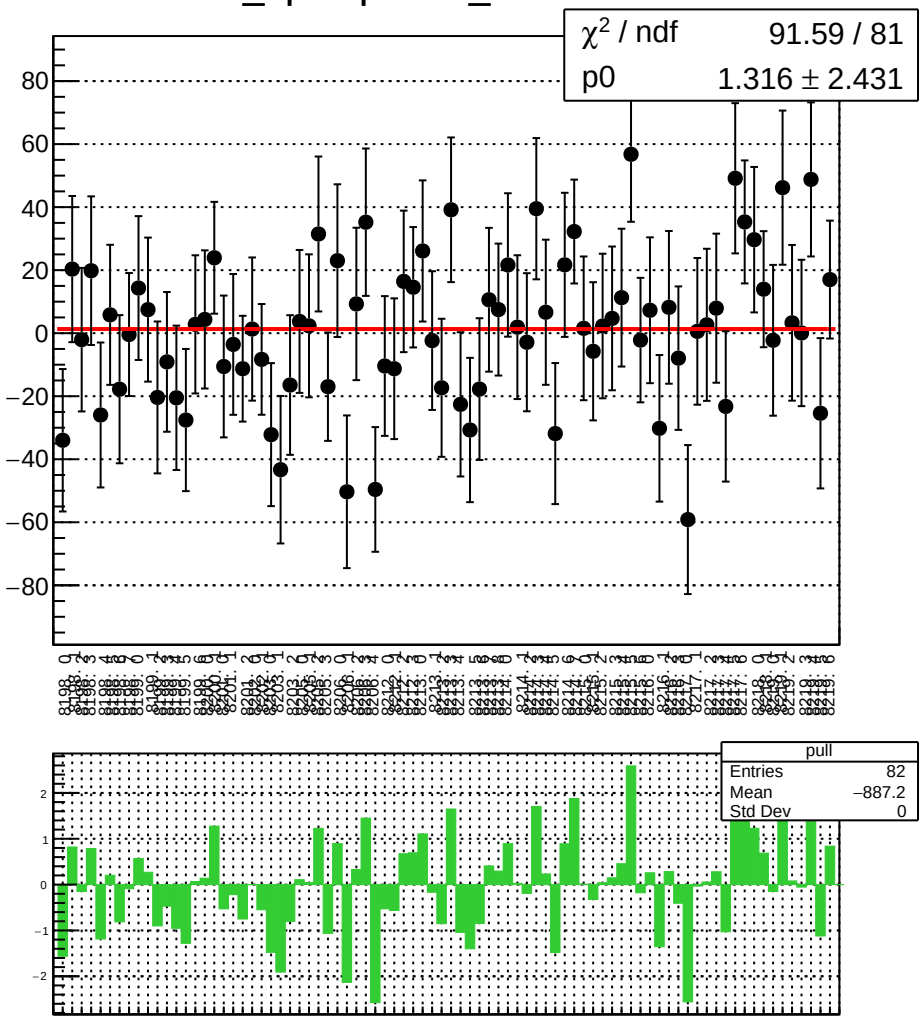

pull1D
Entries 82
Mean −0.004736
Std Dev 1.057

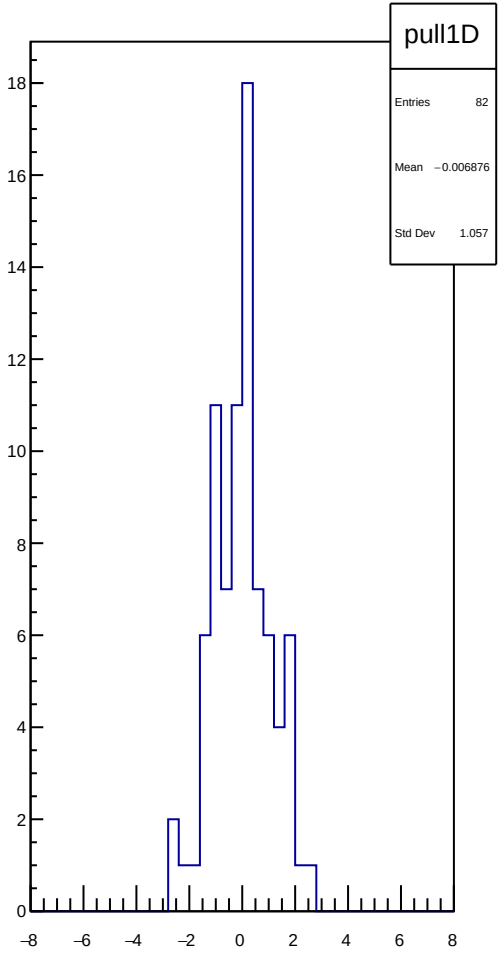

diff_bpm16X_rms vs run
χ² / ndf 4296 / 81
p0 1.96e+04 ± 15.41
22000
21500
21000
20500
20000
19500
19000
18500
18000

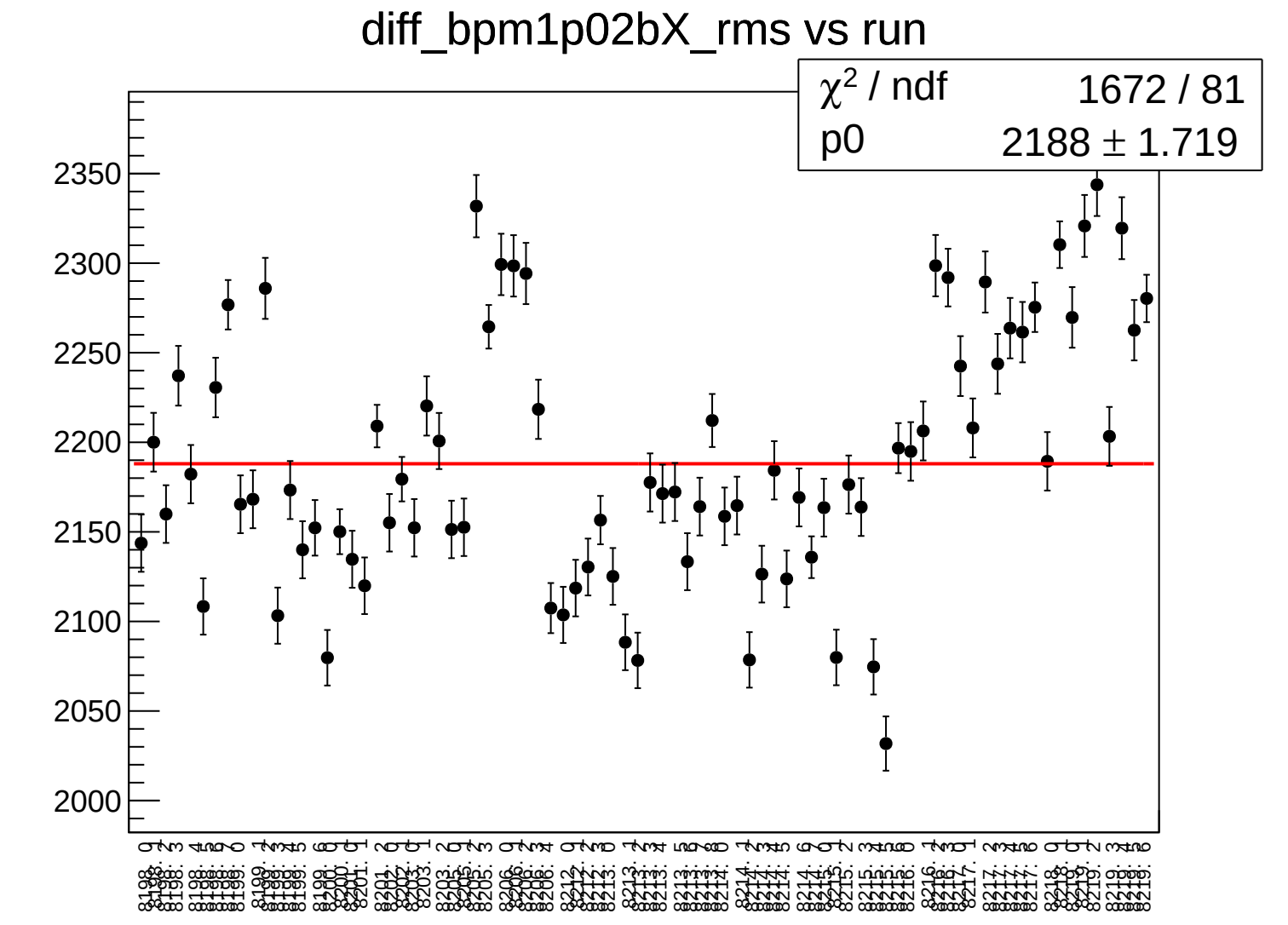

diff_bpm16Y_mean vs run
χ² / ndf 73.7 / 81
p0 −3.926 ± 4.234
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −759.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

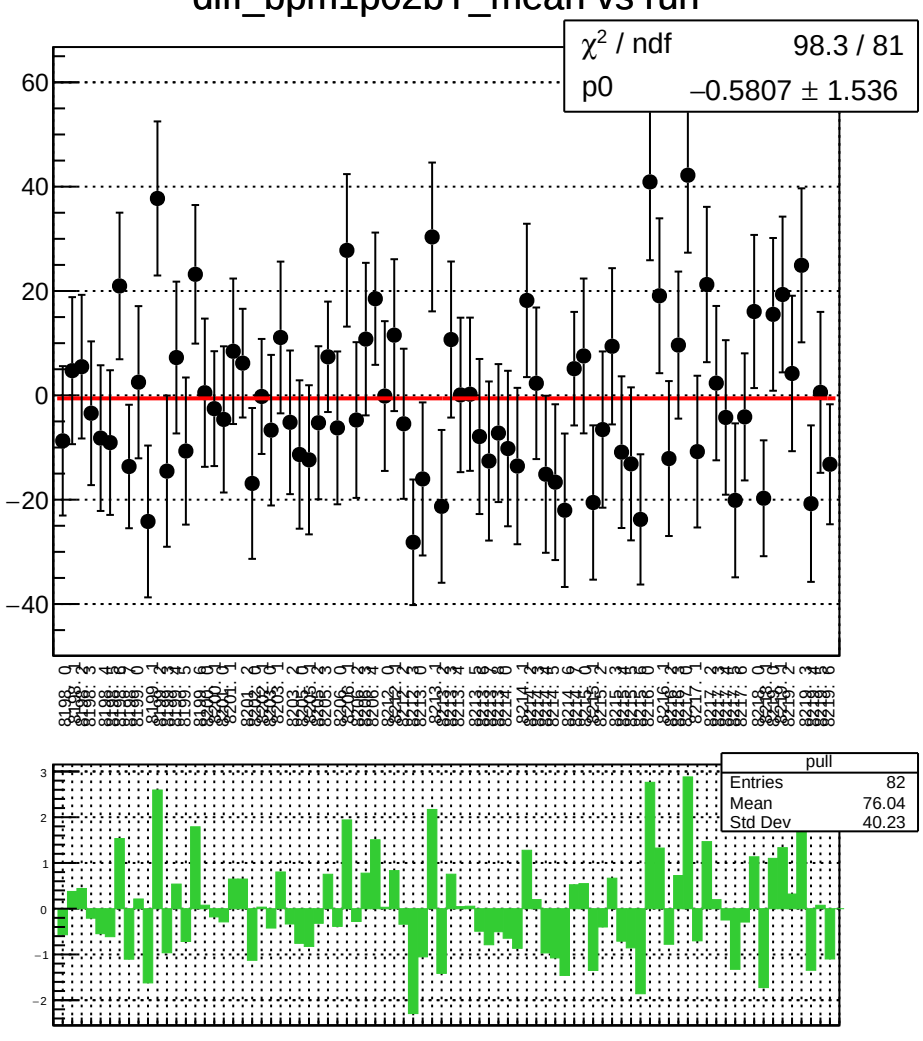

pull1D
Entries 82
Mean 0.005573
Std Dev 0.9481
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

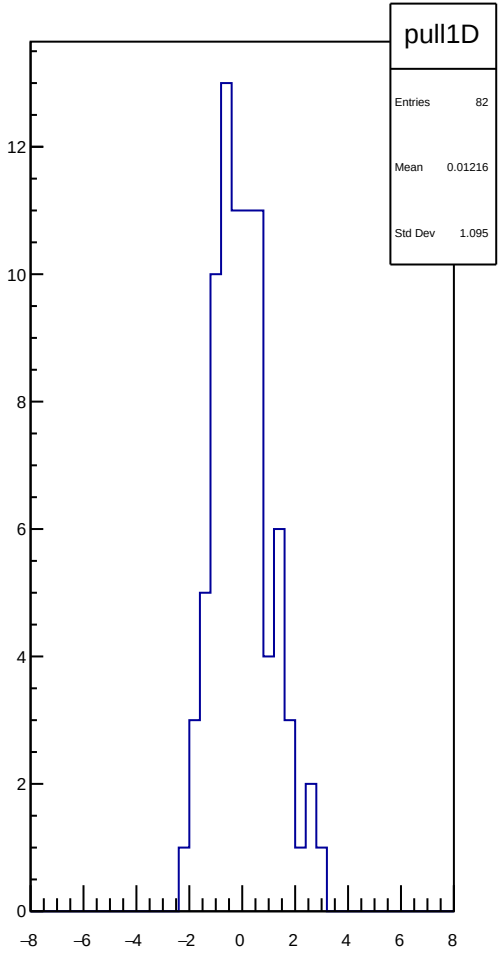

diff_bpm16Y_rms vs run
χ² / ndf 2.901e+04 / 81
p0 3778 ± 2.994
5500
5000
4500
4000
3500
3000

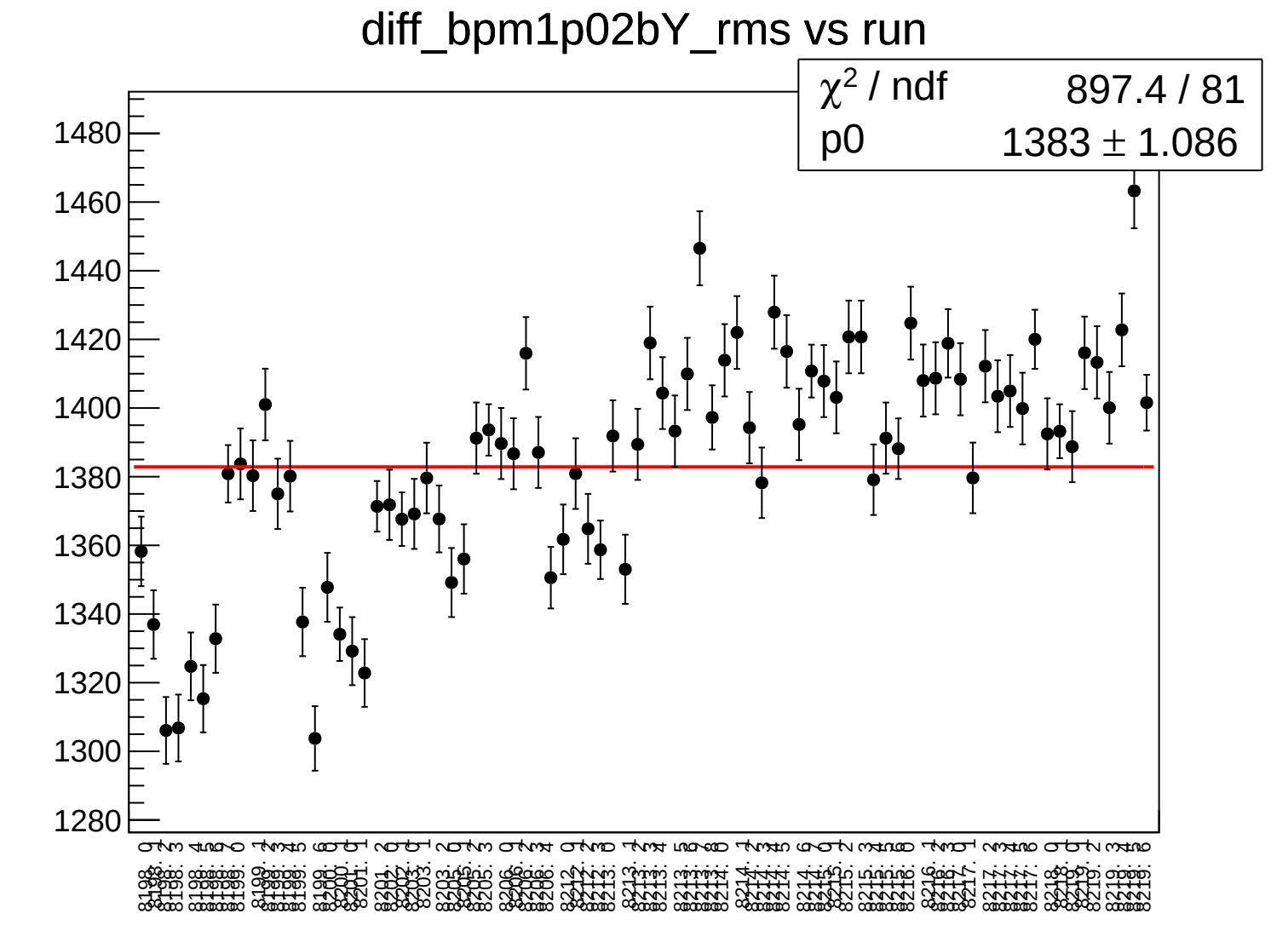

diff_bpm1p02bX_mean vs run
χ² / ndf 91.59 / 81
p0 1.316 ± 2.431
pull
Entries 82
Mean −887.2
Std Dev 0

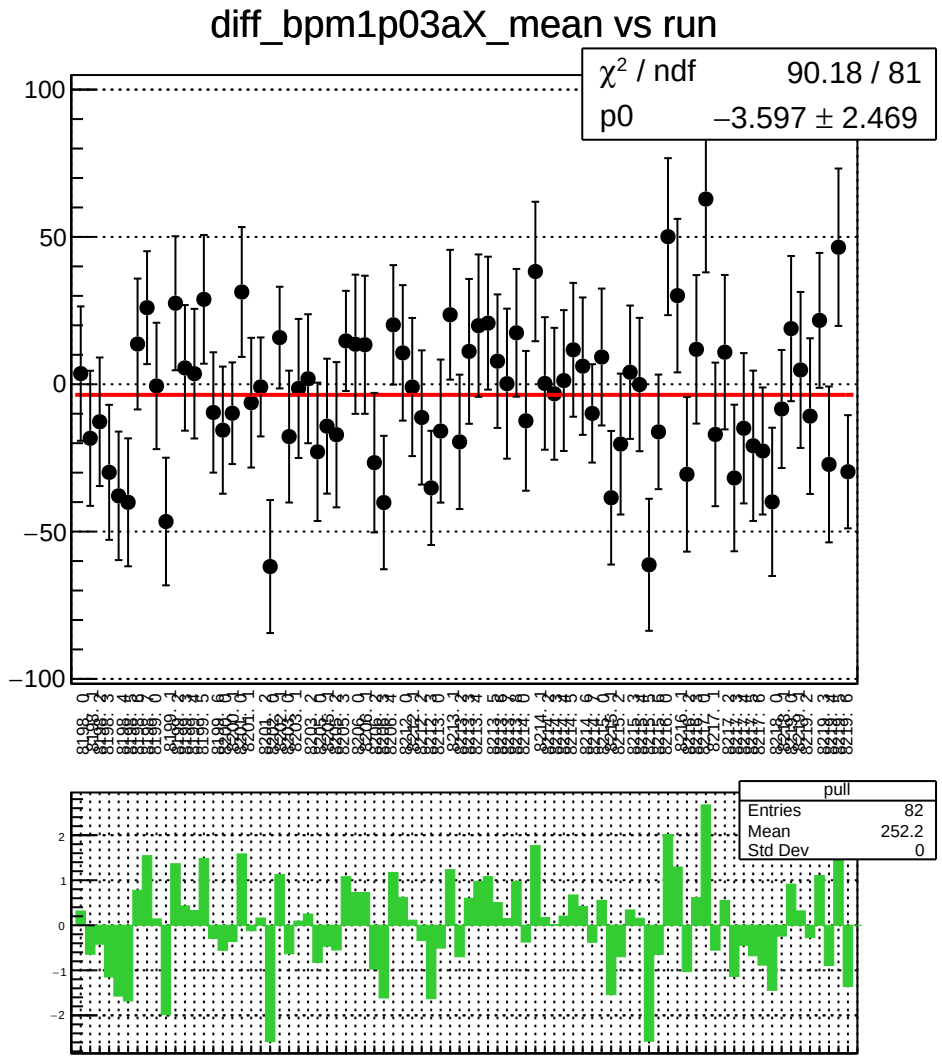

pull1D
Entries 82
Mean −0.006876
Std Dev 1.057

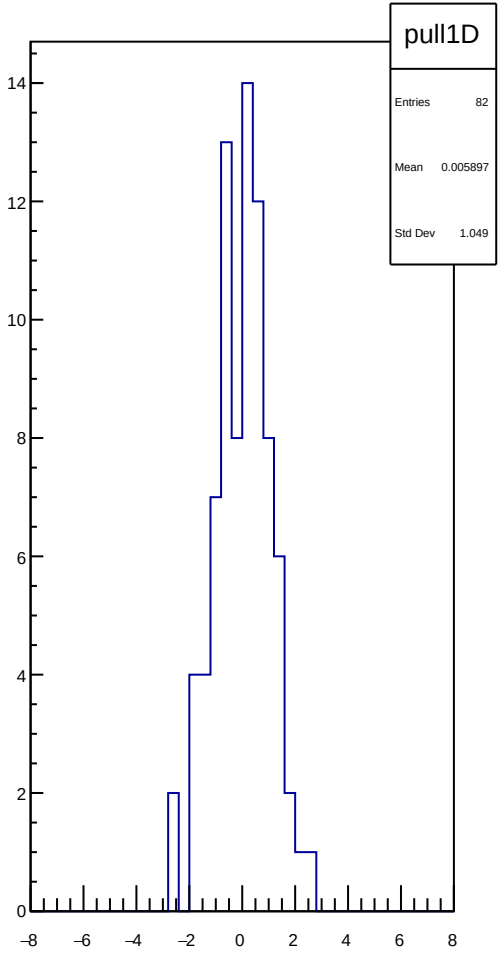

diff_bpm1p02bX_rms vs run
χ² / ndf 1672 / 81
p0 2188 ± 1.719
2350
2300
2250
2200
2150
2100
2050
2000

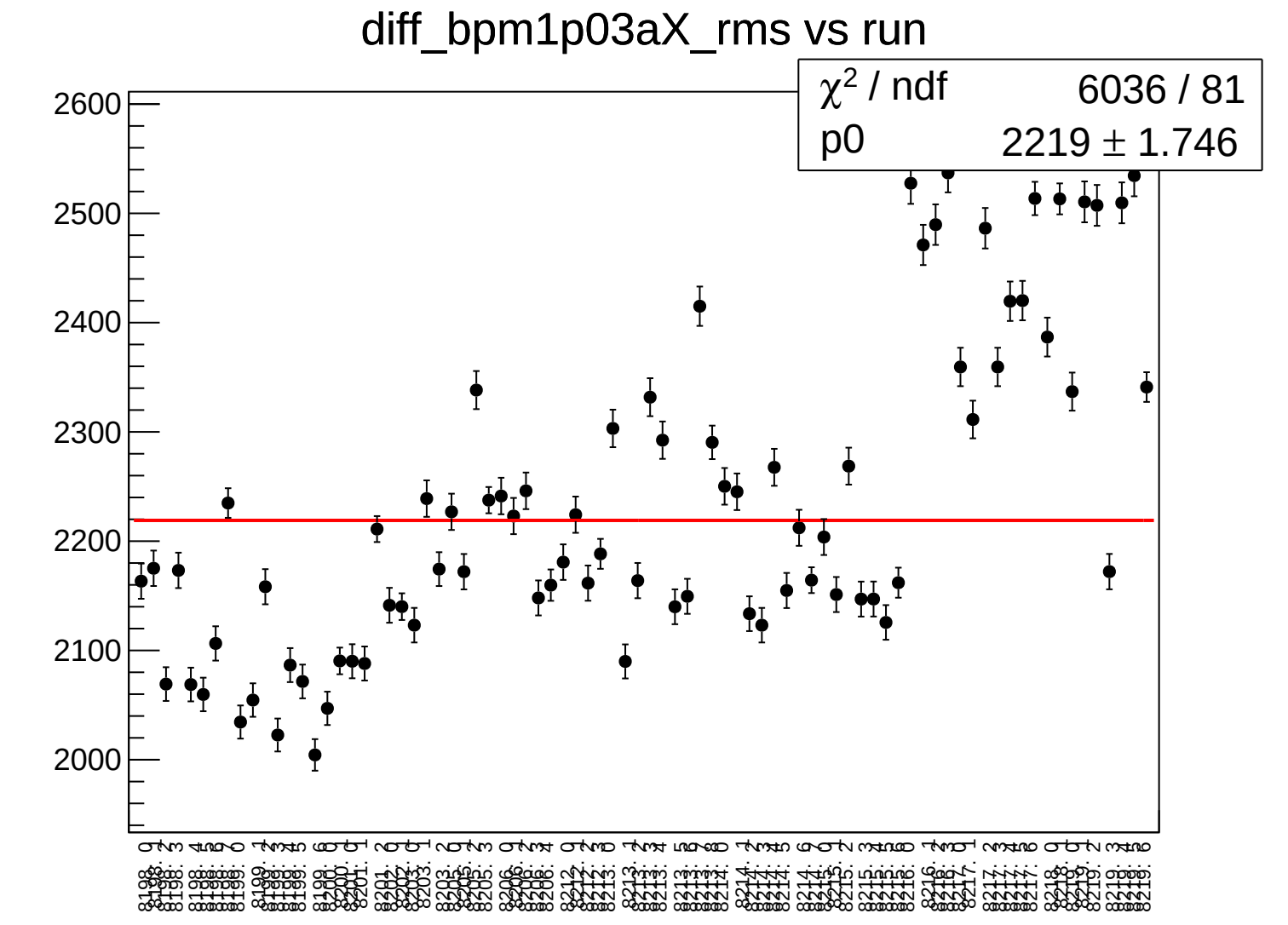

diff_bpm1p02bY_mean vs run
χ² / ndf 98.3 / 81
p0 −0.5807 ± 1.536
pull
Entries 82
Mean 76.04
Std Dev 40.23

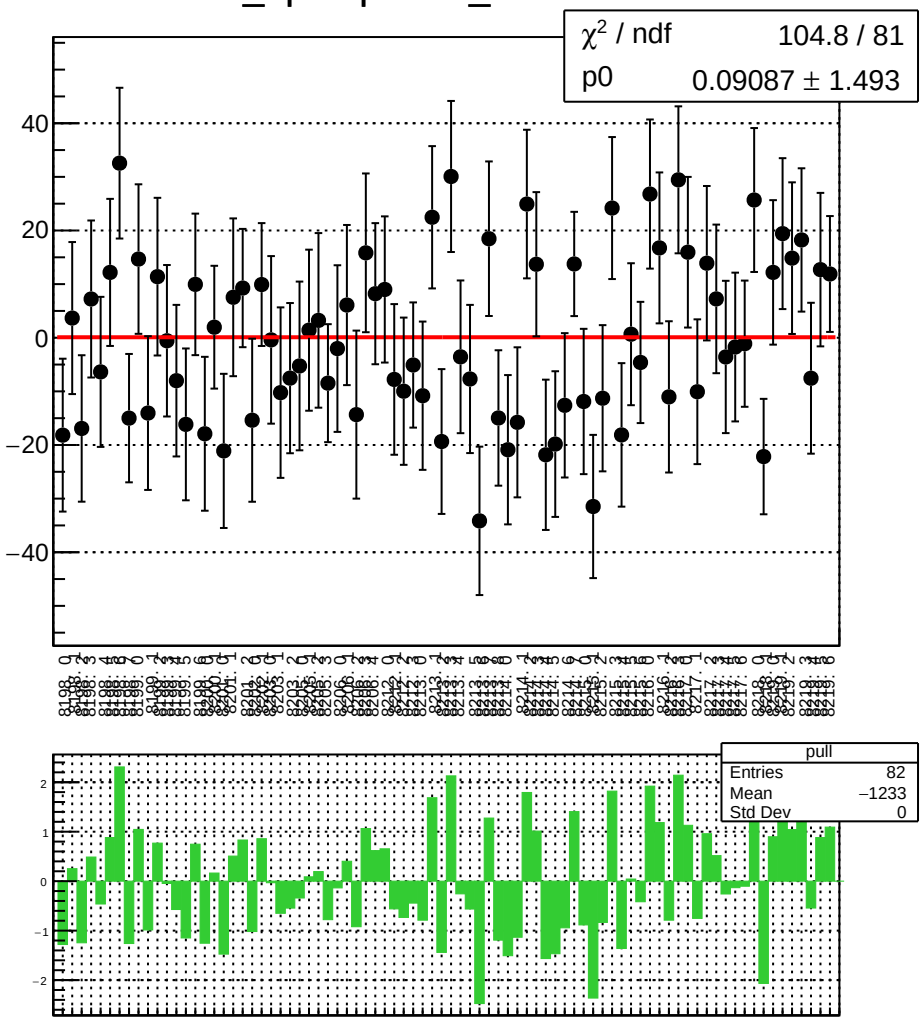

pull1D
Entries 82
Mean 0.01216
Std Dev 1.095

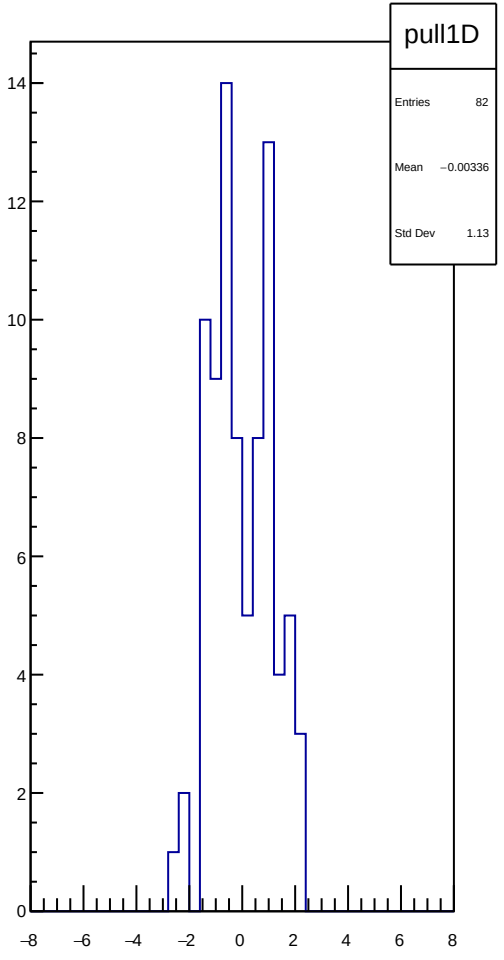

diff_bpm1p02bY_rms vs run
χ² / ndf 897.4 / 81
p0 1383 ± 1.086
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

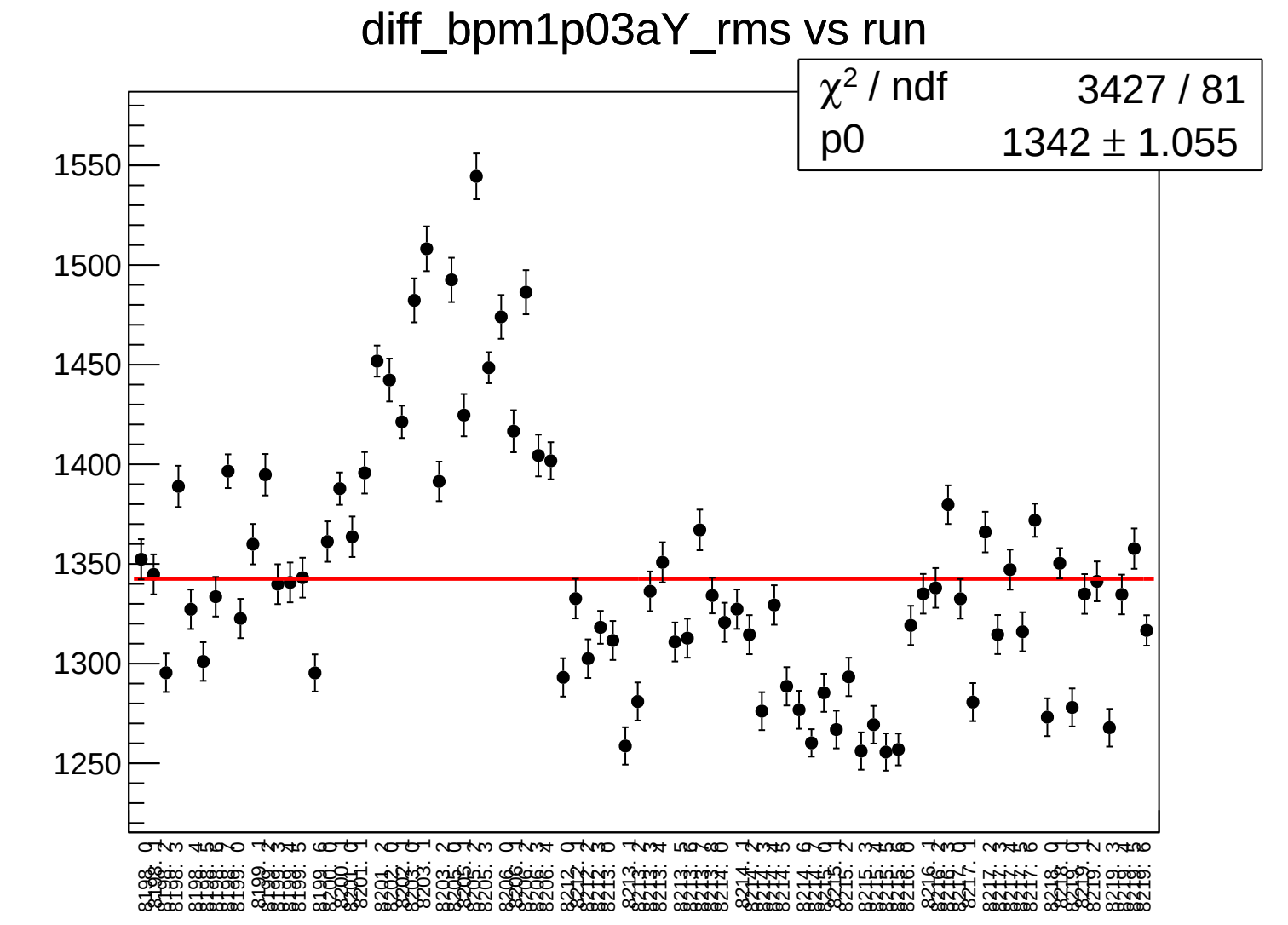

diff_bpm1p03aX_mean vs run
χ² / ndf 90.18 / 81
p0 −3.597 ± 2.469
100
50
0
−50
−100
pull
Entries 82
Mean 252.2
Std Dev 0
2
1
0
−1
−2

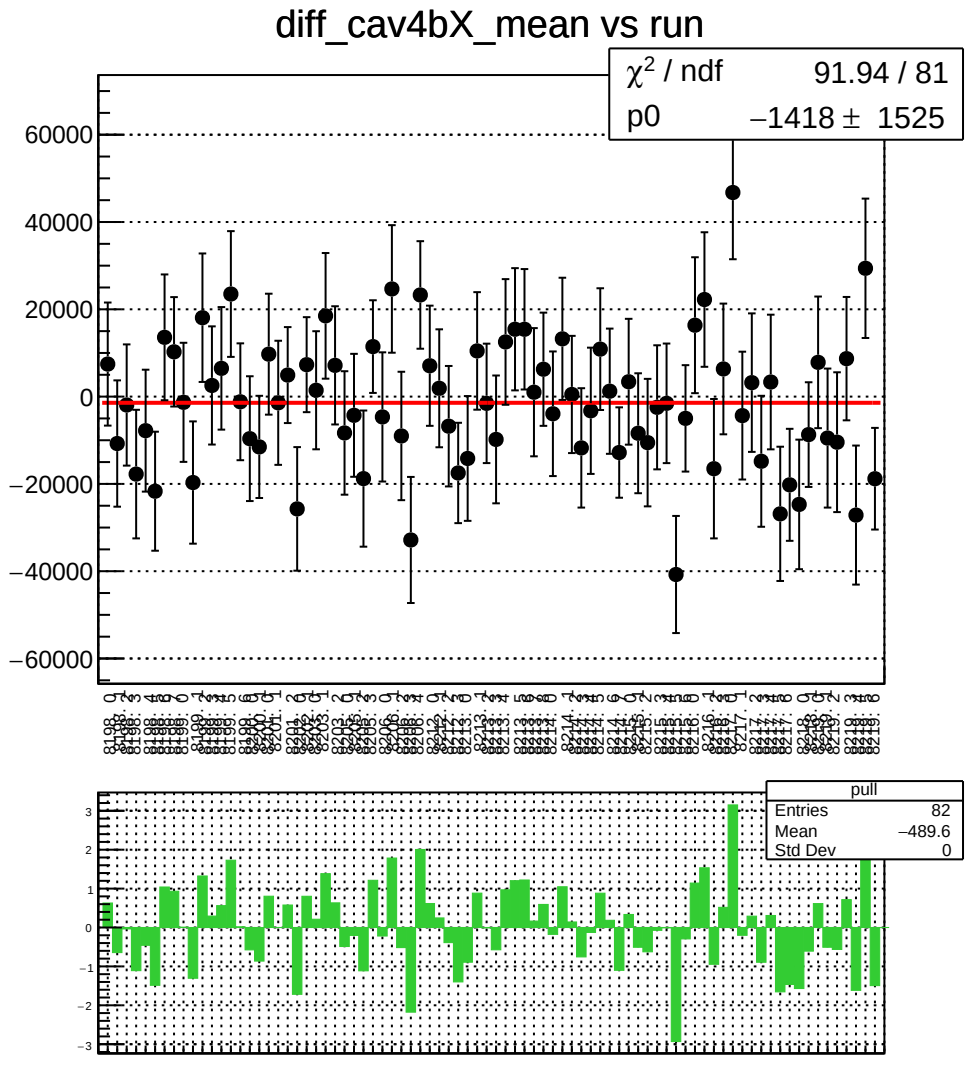

pull1D
Entries 82
Mean 0.005897
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

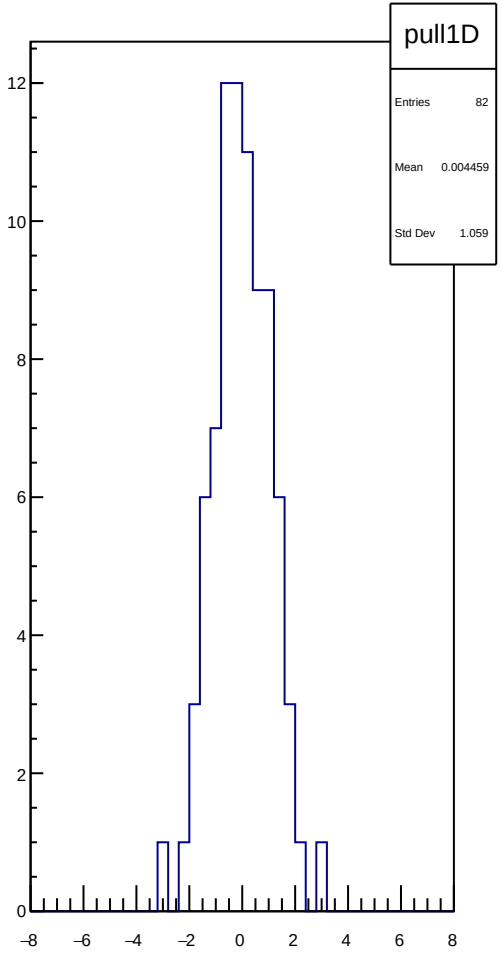

diff_bpm1p03aX_rms vs run
χ² / ndf 6036 / 81
p0 2219 ± 1.746
2600
2500
2400
2300
2200
2100
2000

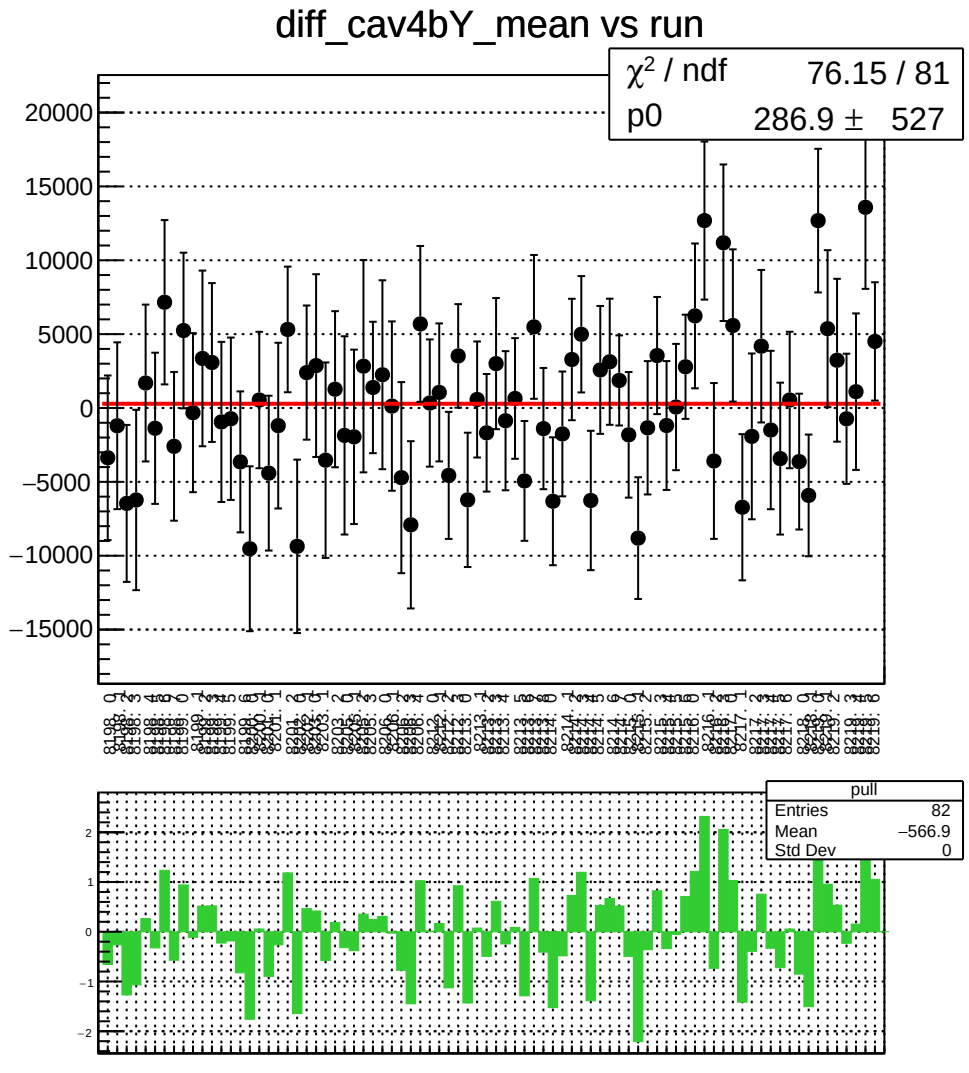

diff_bpm1p03aY_mean vs run
χ² / ndf 104.8 / 81
p0 0.09087 ± 1.493
pull
Entries 82
Mean −1233
Std Dev 0

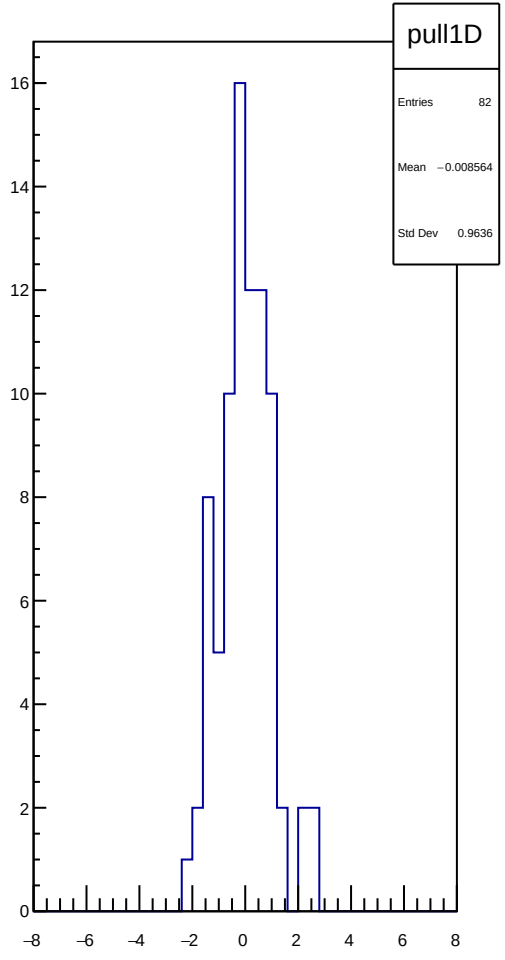

pull1D
Entries 82
Mean −0.00336
Std Dev 1.13

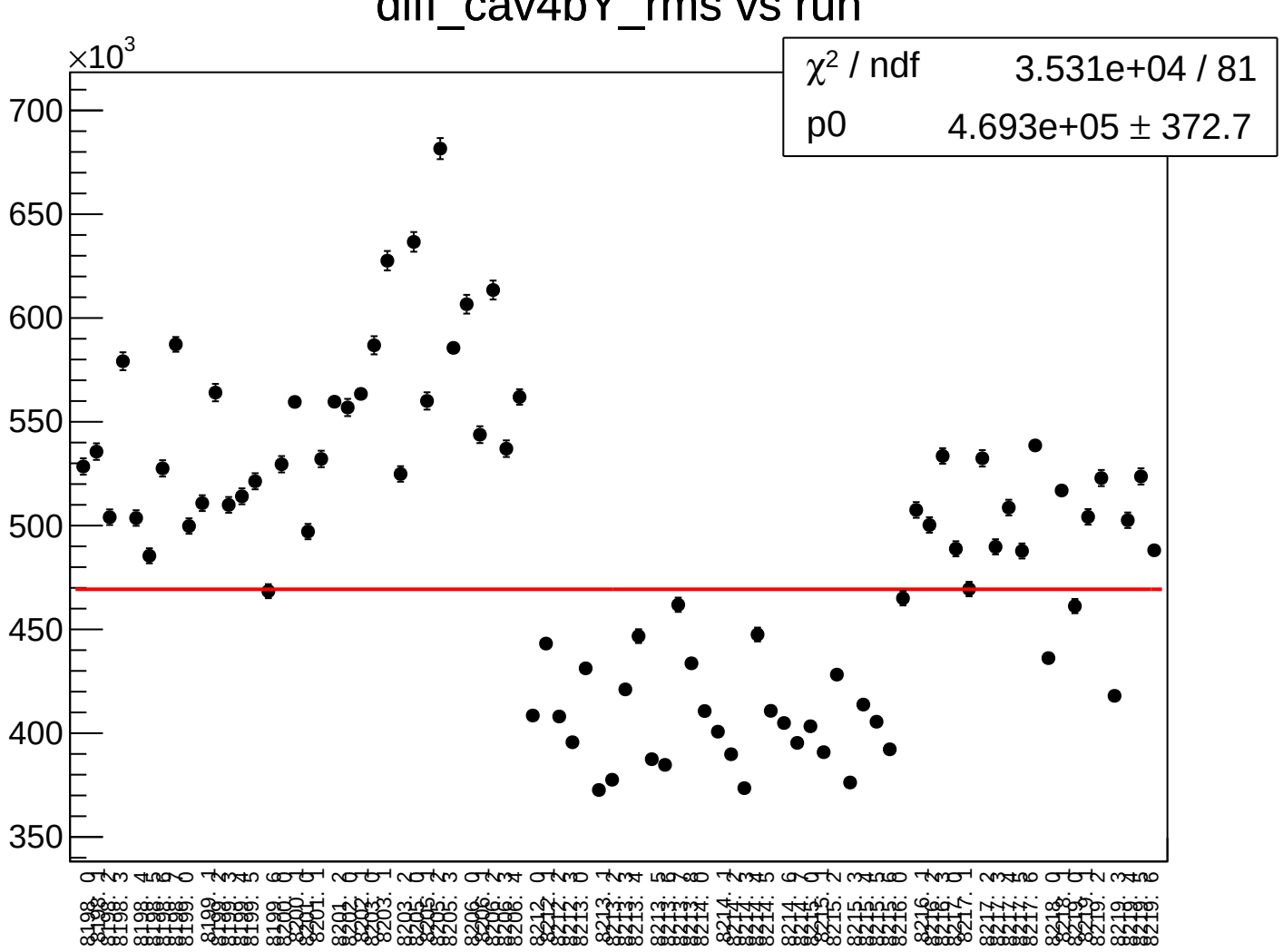

diff_bpm1p03aY_rms vs run
χ² / ndf 3427 / 81
p0 1342 ± 1.055
1550
1500
1450
1400
1350
1300
1250

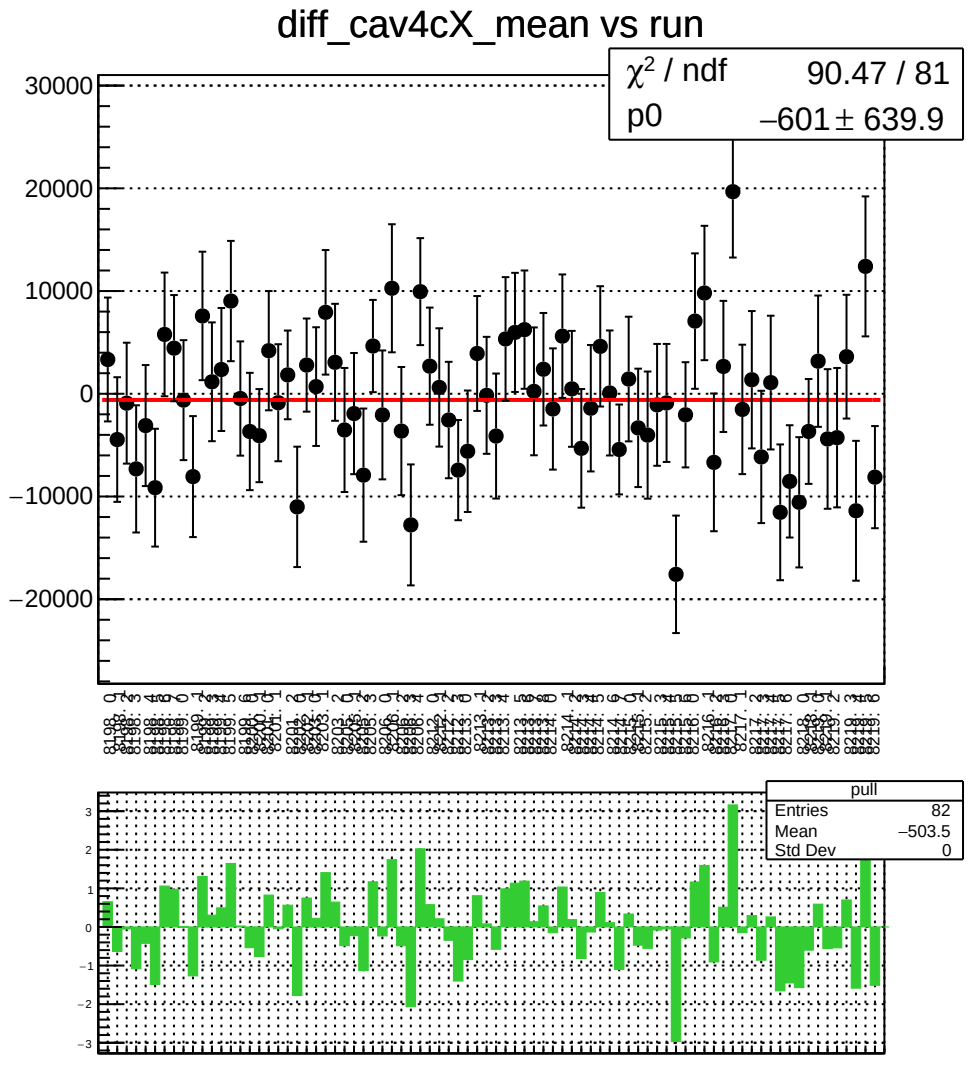

diff_cav4bX_mean vs run
χ² / ndf 91.94 / 81
p0 −1418 ± 1525
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −489.6
Std Dev 0
3
2
1
0
−1
−2
−3

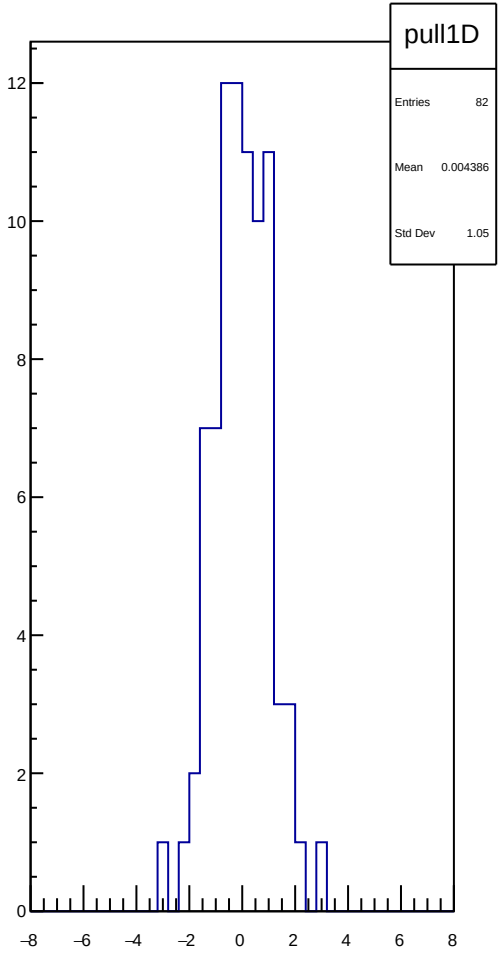

pull1D
Entries 82
Mean 0.004459
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

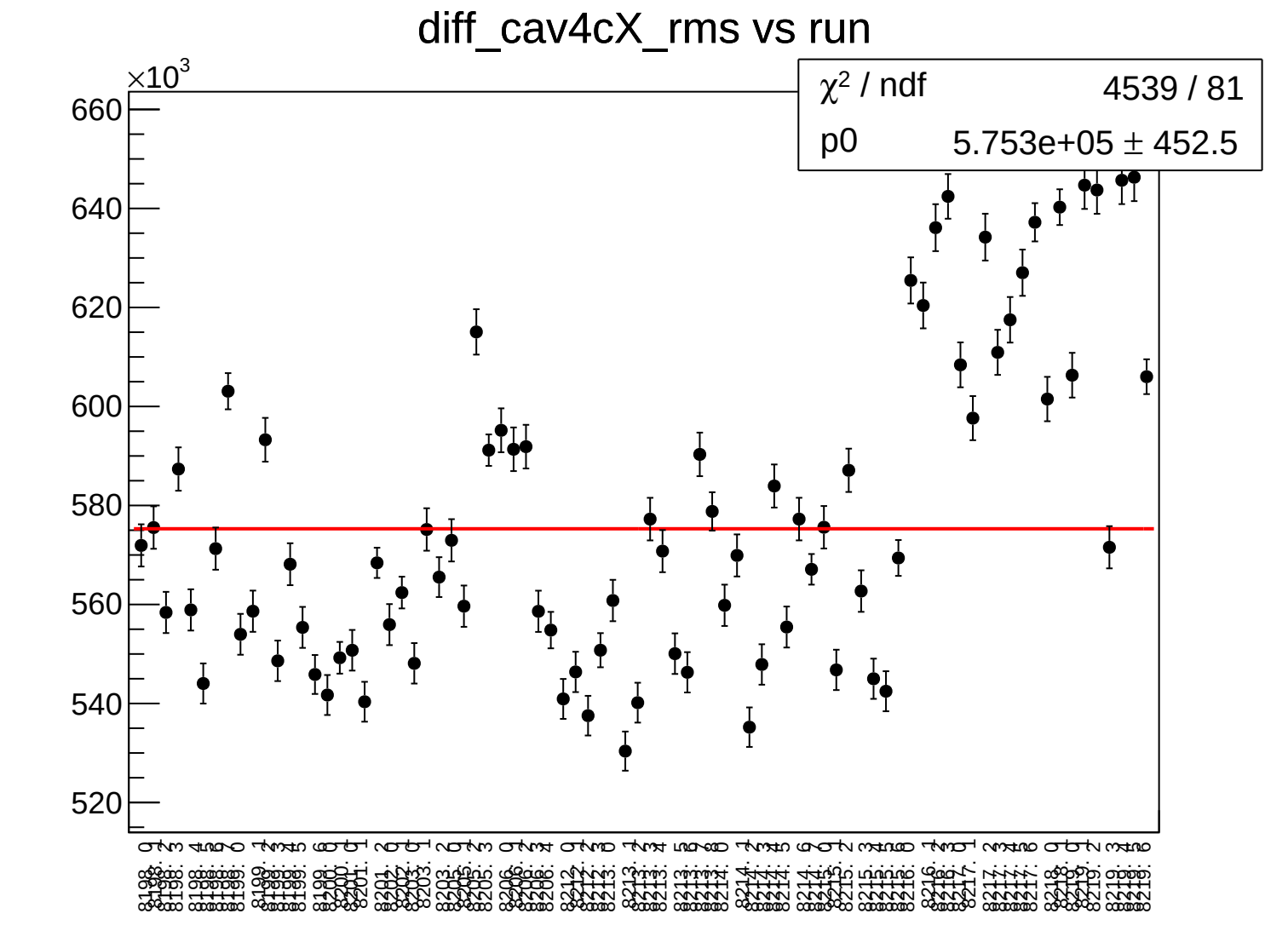

diff_cav4bY_mean vs run
χ² / ndf 76.15 / 81
p0 286.9 ± 527
pull
Entries 82
Mean −566.9
Std Dev 0

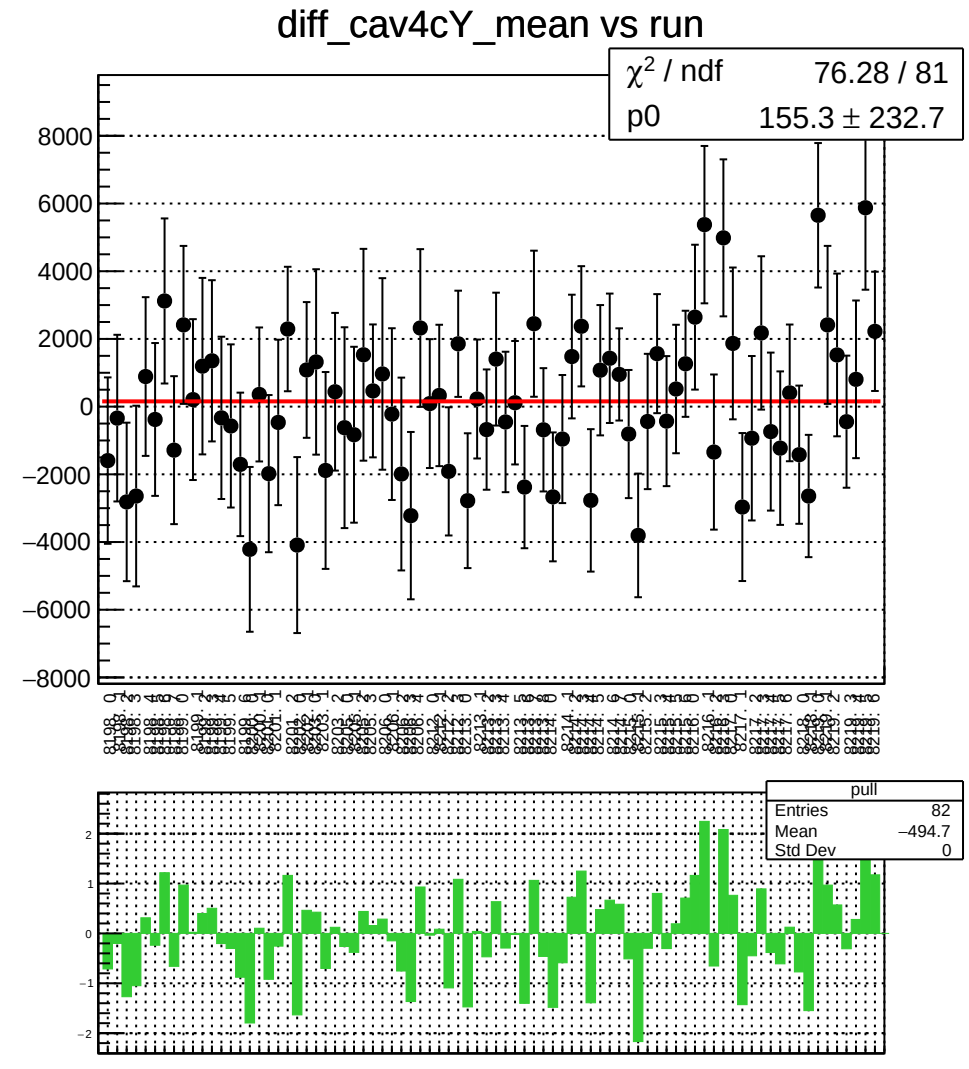

pull1D
Entries 82
Mean −0.008564
Std Dev 0.9636

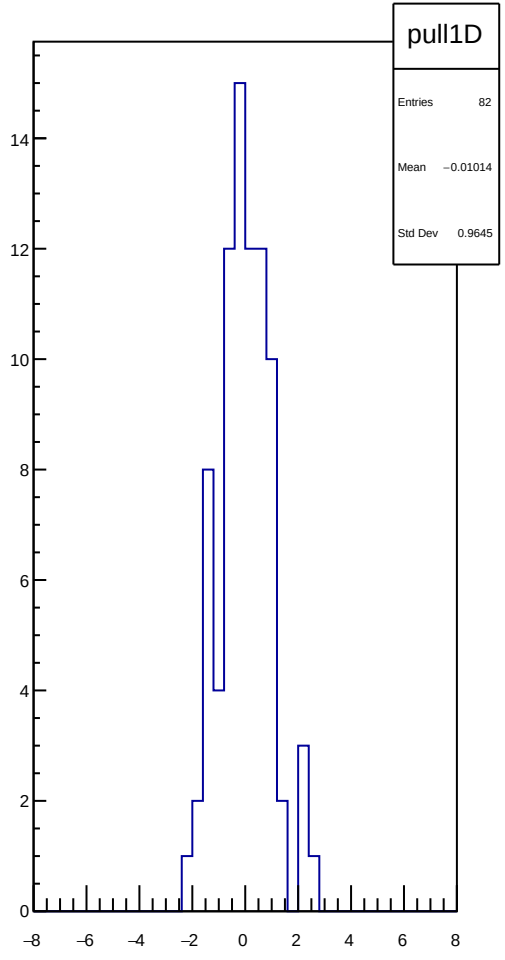

diff_cav4bY_rms vs run
×10^3
χ² / ndf 3.531e+04 / 81
p0 4.693e+05 ± 372.7
700
650
600
550
500
450
400
350

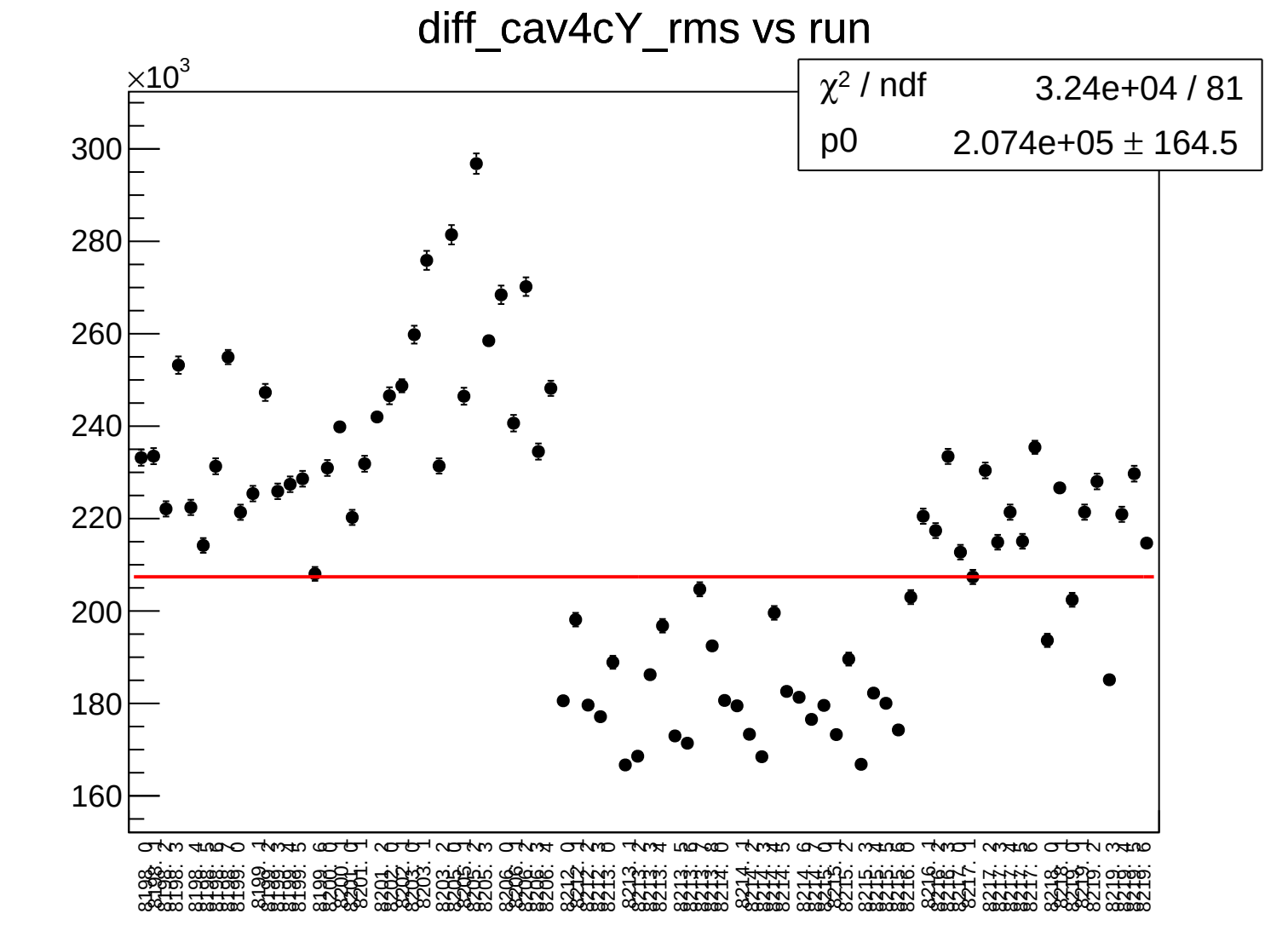

diff_cav4cX_mean vs run
χ² / ndf 90.47 / 81
p0 −601 ± 639.9
30000
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −503.5
Std Dev 0
3
2
1
0
−1
−2
−3

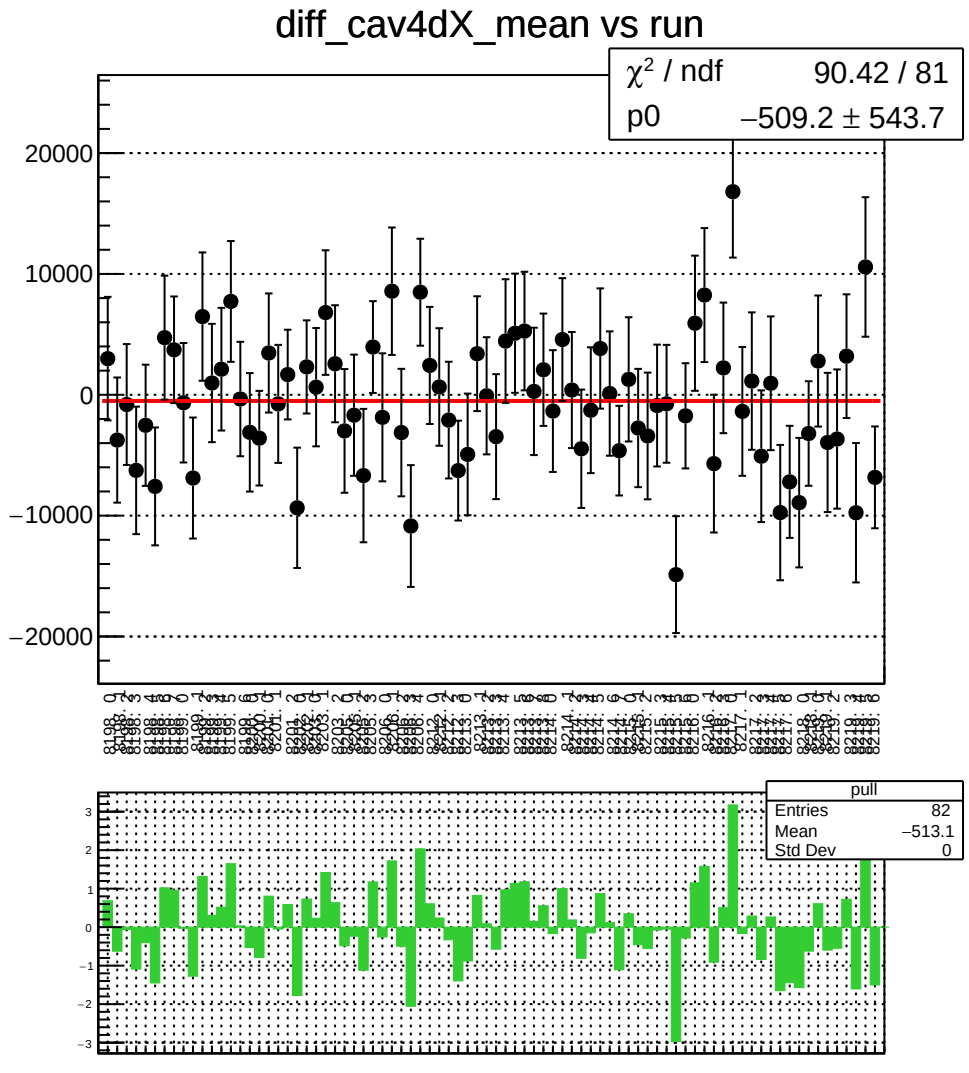

pull1D
Entries 82
Mean 0.004386
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

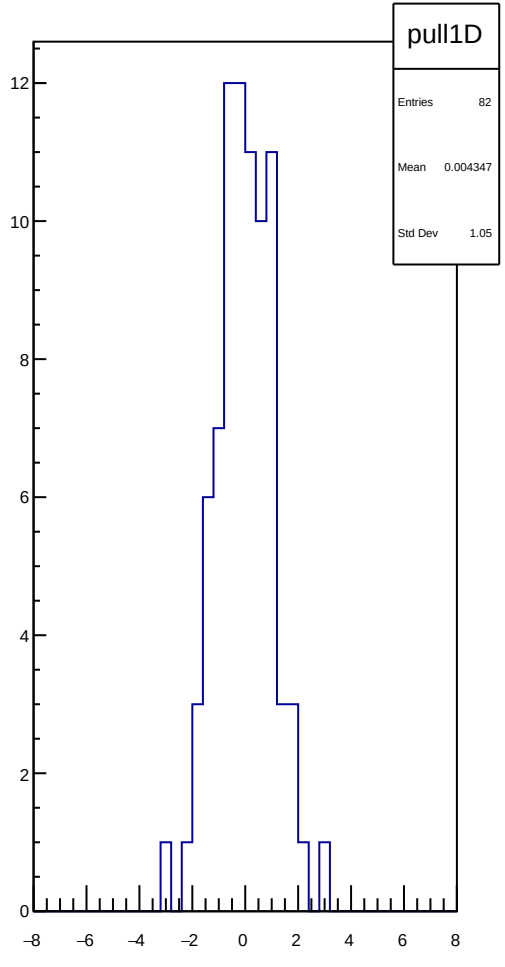

diff_cav4cX_rms vs run
×10^3
660
640
620
600
580
560
540
520
χ² / ndf 4539 / 81
p0 5.753e+05 ± 452.5

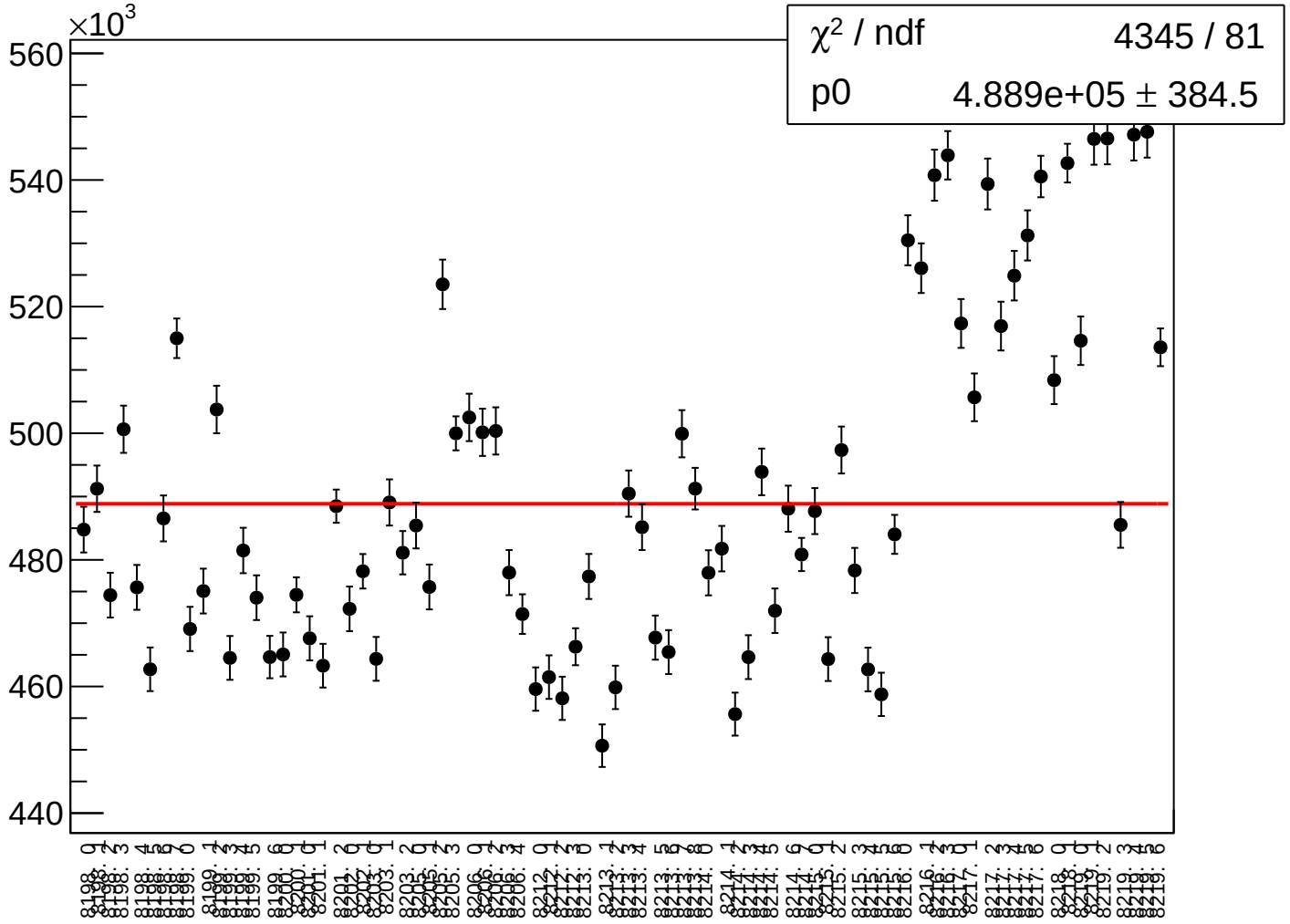

diff_cav4cY_mean vs run
χ² / ndf 76.28 / 81
p0 155.3 ± 232.7
pull
Entries 82
Mean −494.7
Std Dev 0

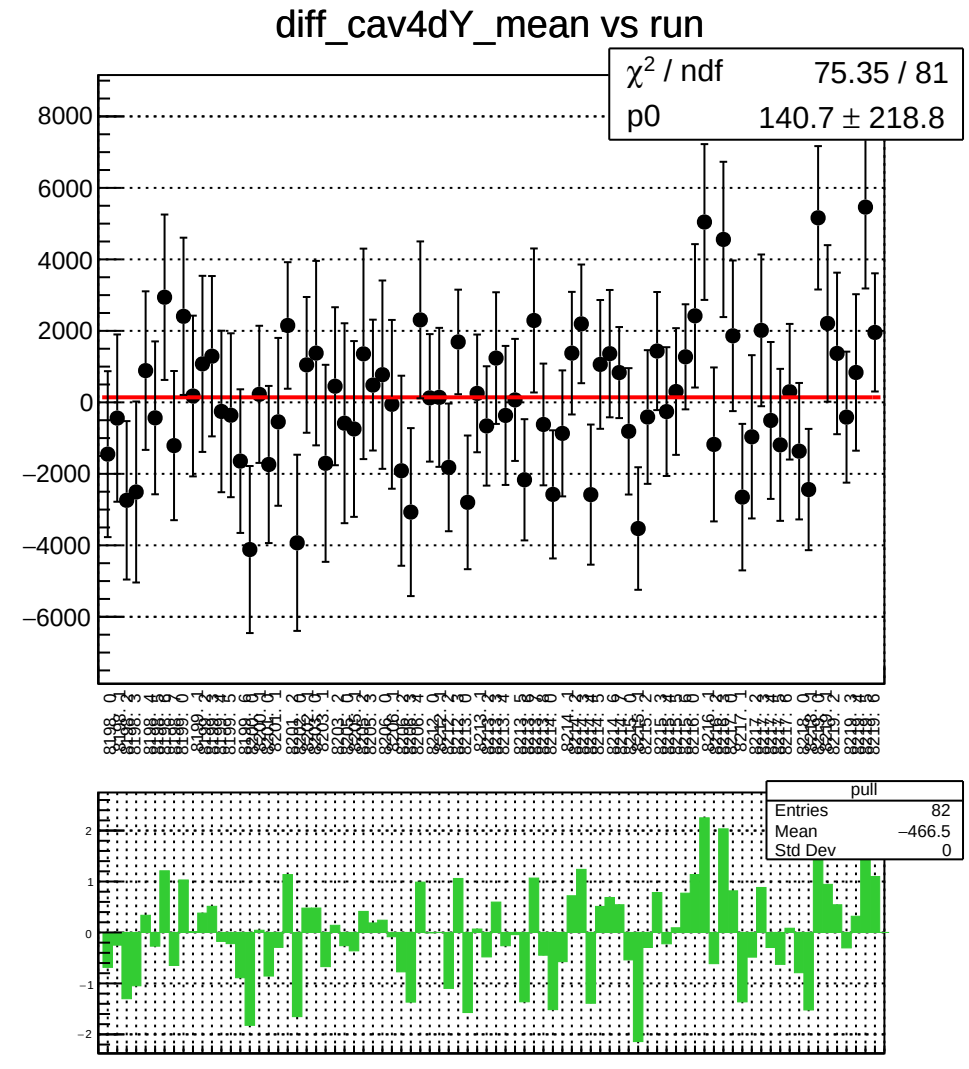

pull1D
Entries 82
Mean −0.01014
Std Dev 0.9645

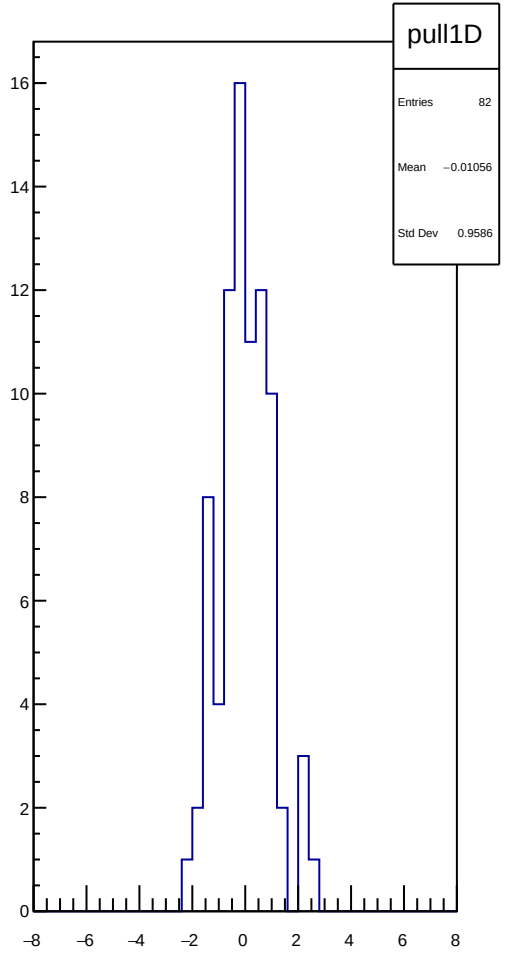

diff_cav4cY_rms vs run
×10^3
χ² / ndf 3.24e+04 / 81
p0 2.074e+05 ± 164.5
300
280
260
240
220
200
180
160

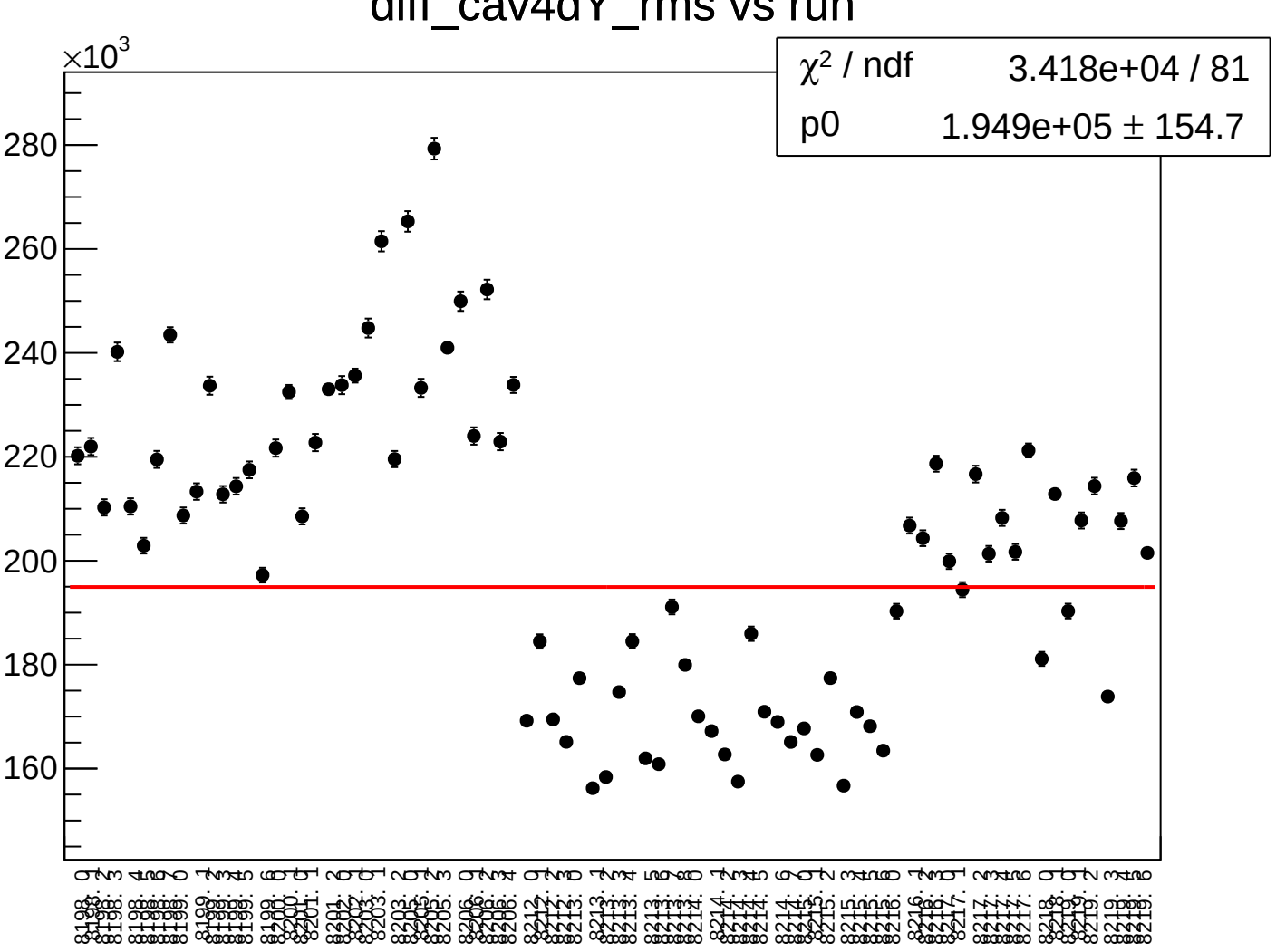

diff_cav4dX_mean vs run
χ² / ndf 90.42 / 81
p0 −509.2 ± 543.7
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −513.1
Std Dev 0
3
2
1
0
−1
−2
−3

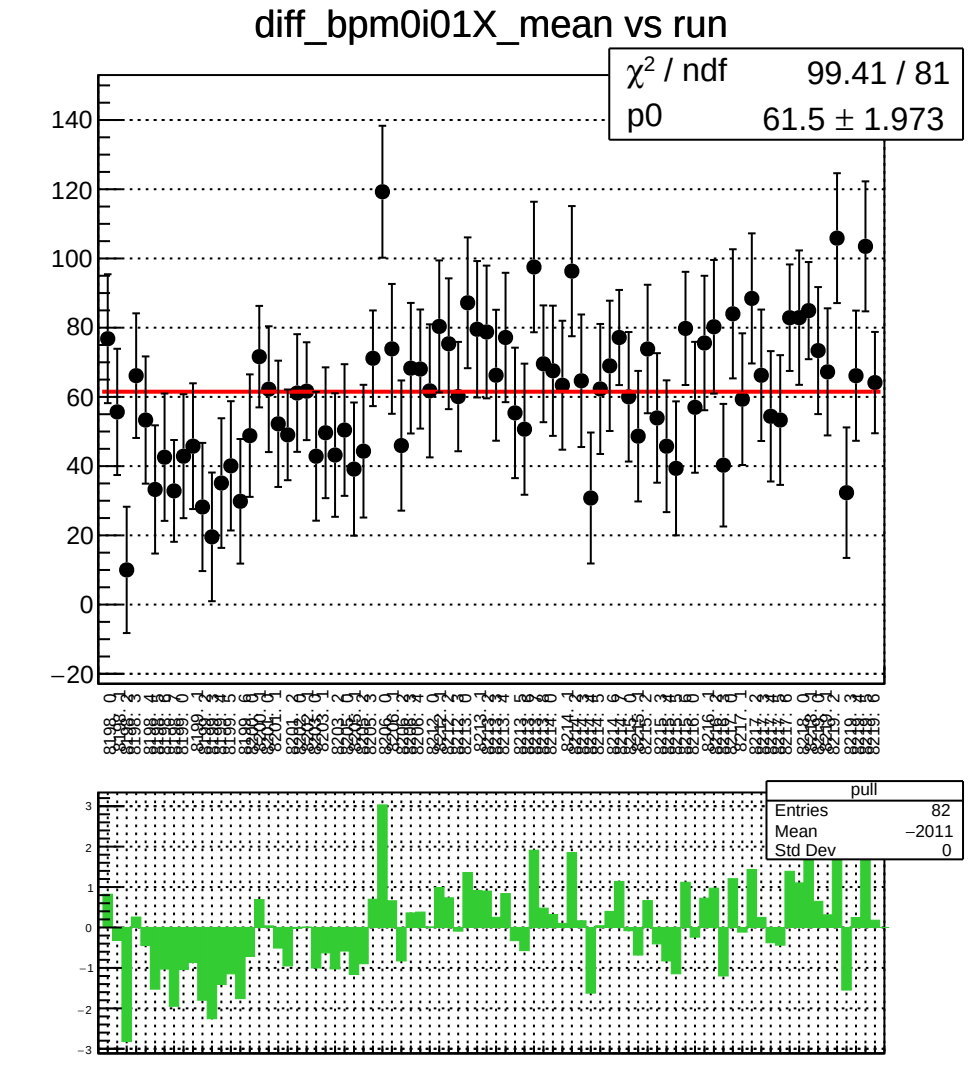

pull1D
Entries 82
Mean 0.004347
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

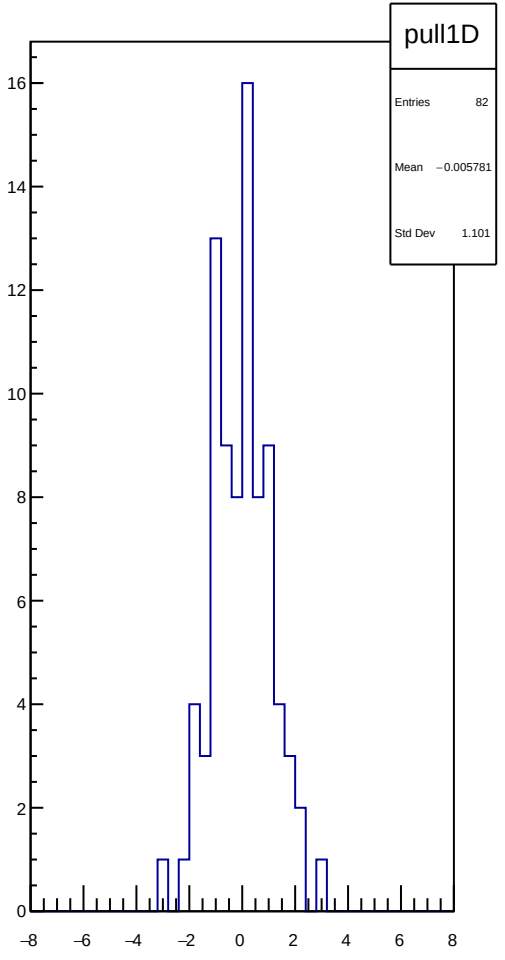

diff_cav4dX_rms vs run
×10^3
560
540
520
500
480
460
440
χ² / ndf 4345 / 81
p0 4.889e+05 ± 384.5

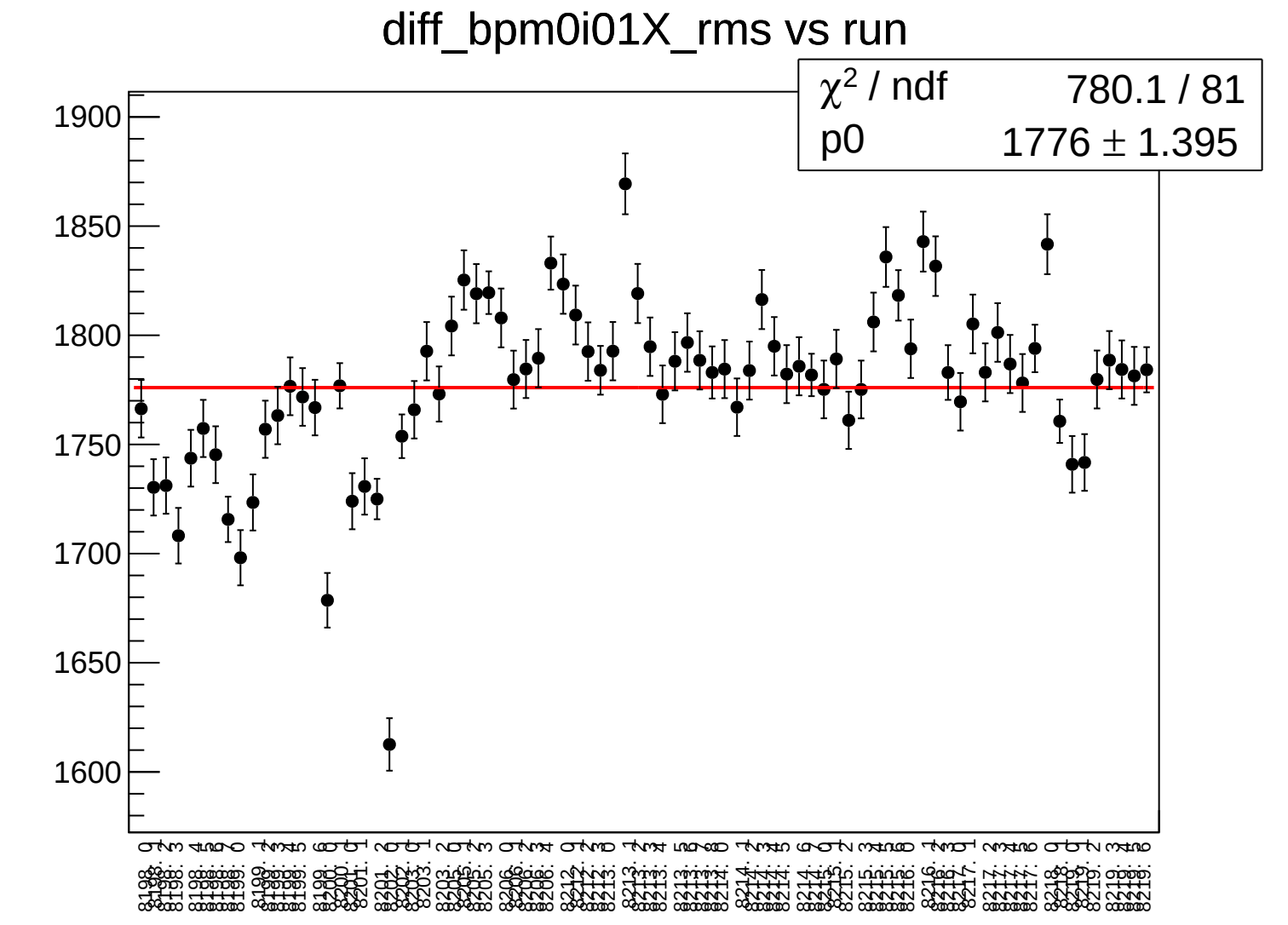

diff_cav4dY_mean vs run
χ² / ndf 75.35 / 81
p0 140.7 ± 218.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −466.5
Std Dev 0
2
1
0
−1
−2

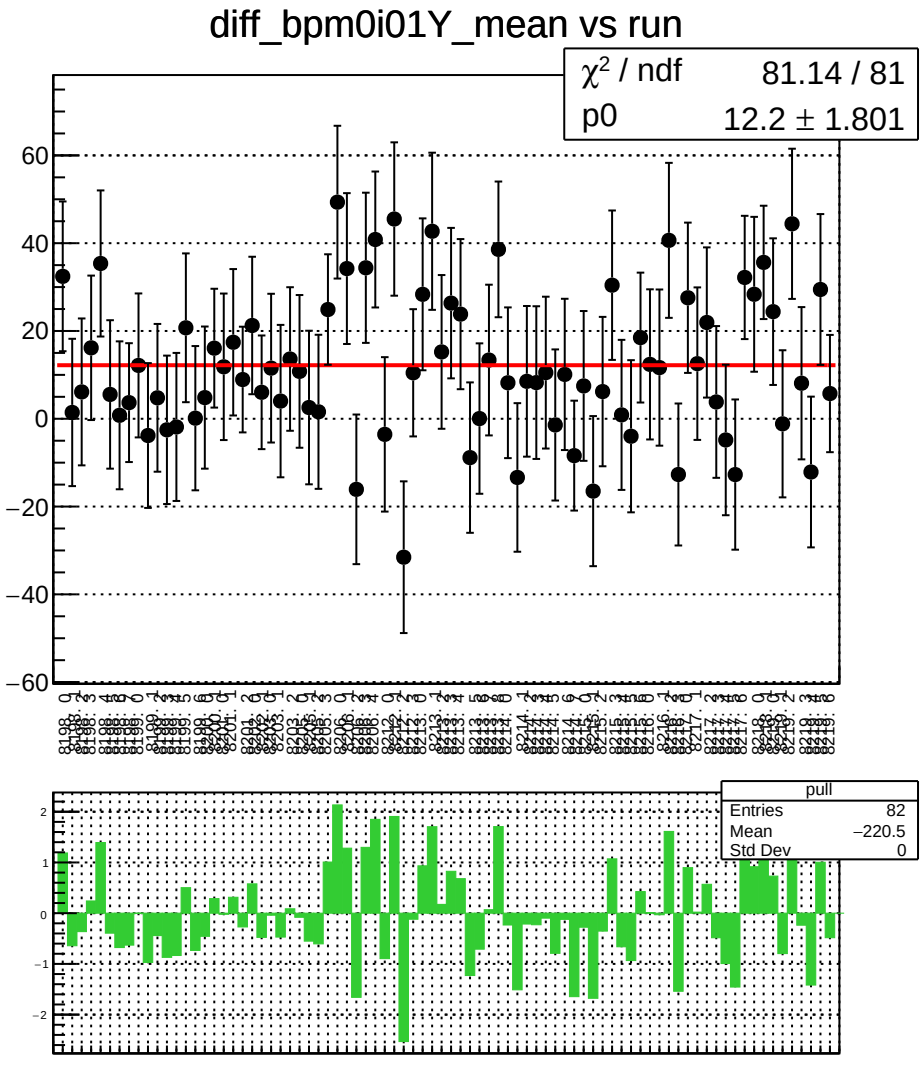

pull1D
Entries 82
Mean −0.01056
Std Dev 0.9586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

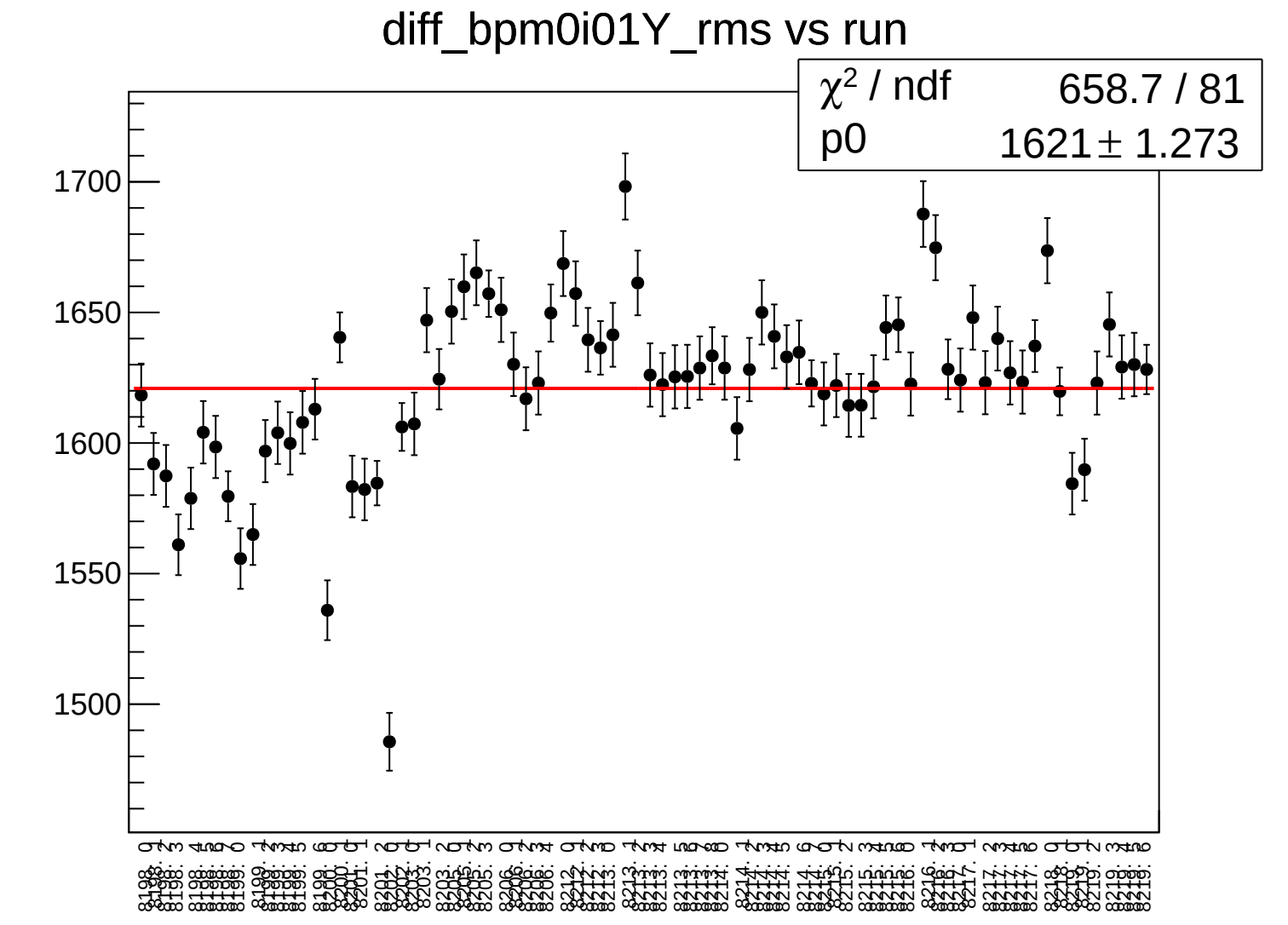

diff_cav4dY_rms vs run
×10^3
χ² / ndf 3.418e+04 / 81
p0 1.949e+05 ± 154.7
280
260
240
220
200
180
160

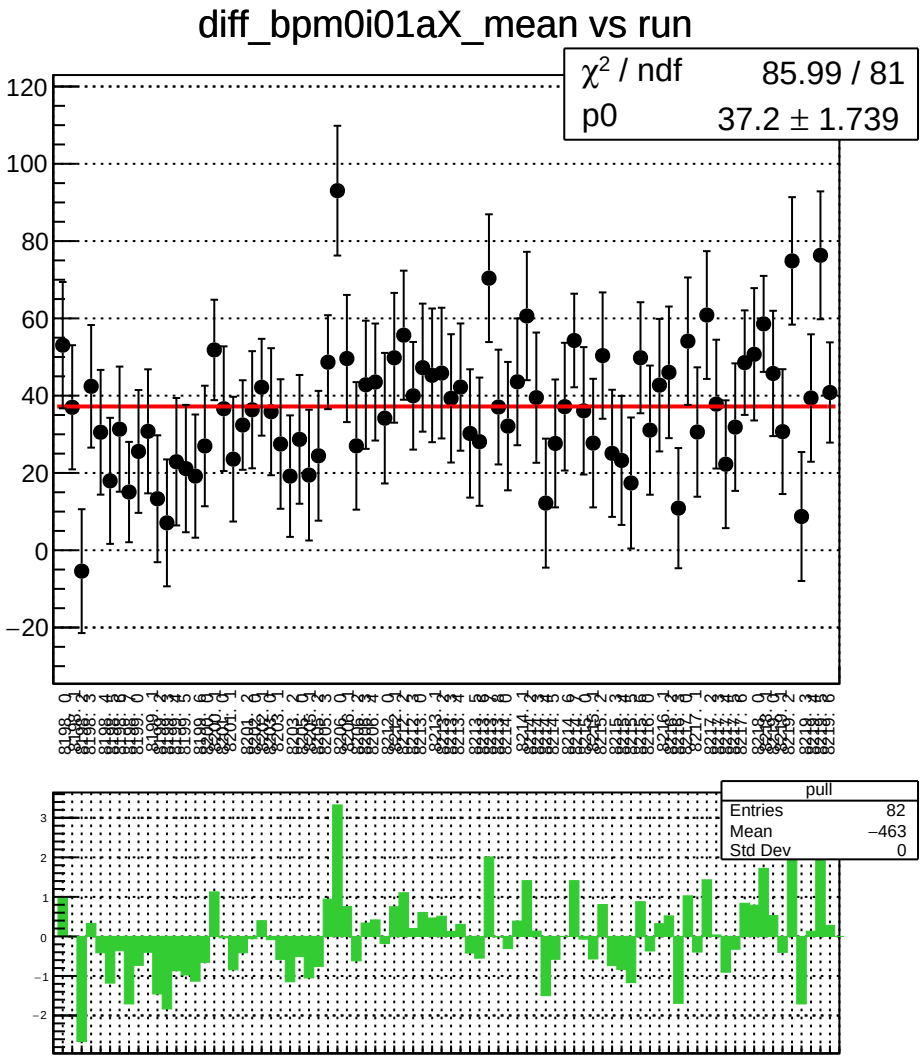

diff_bpm0i01X_mean vs run
χ² / ndf 99.41 / 81
p0 61.5 ± 1.973
pull
Entries 82
Mean −2011
Std Dev 0

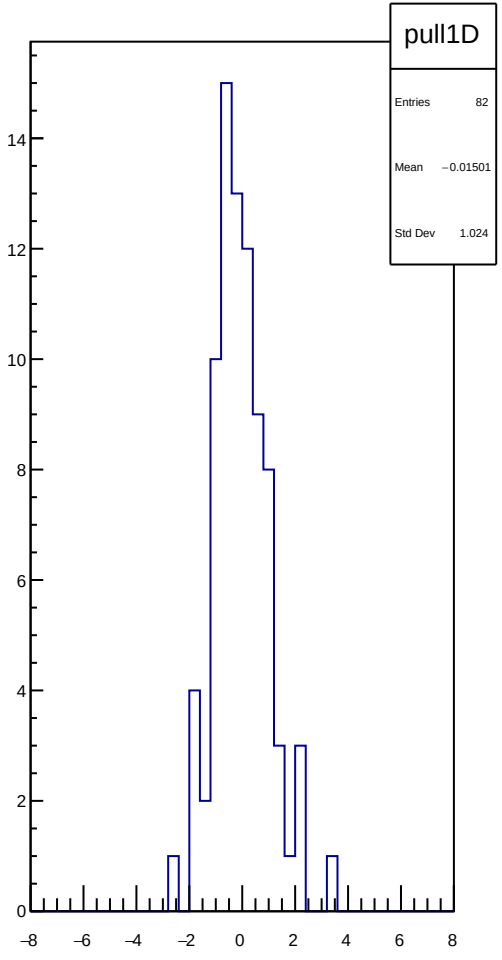

pull1D
Entries 82
Mean −0.005781
Std Dev 1.101

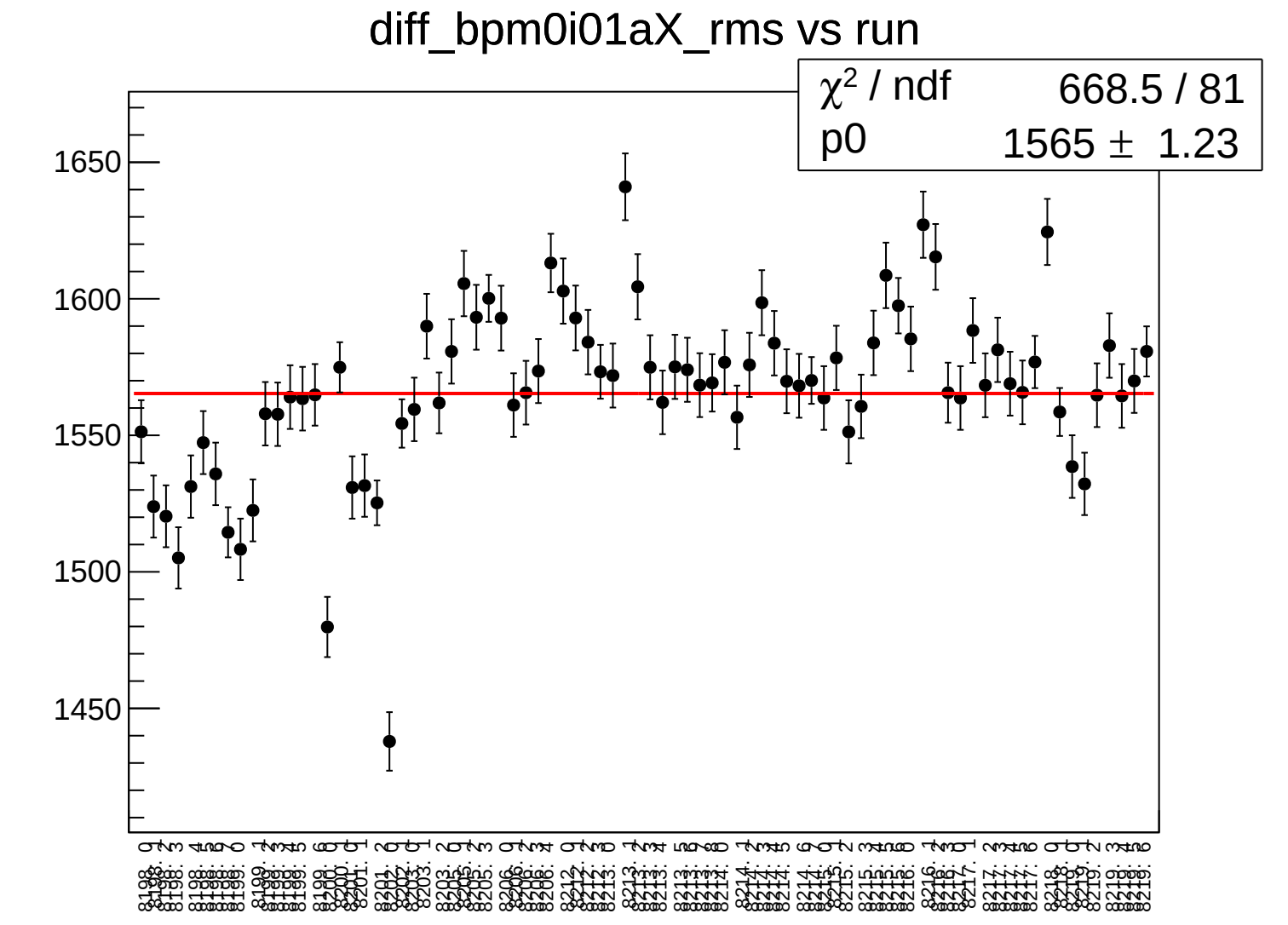

diff_bpm0i01X_rms vs run
$\chi^2$ / ndf 780.1 / 81
p0 1776 ± 1.395
1900
1850
1800
1750
1700
1650
1600

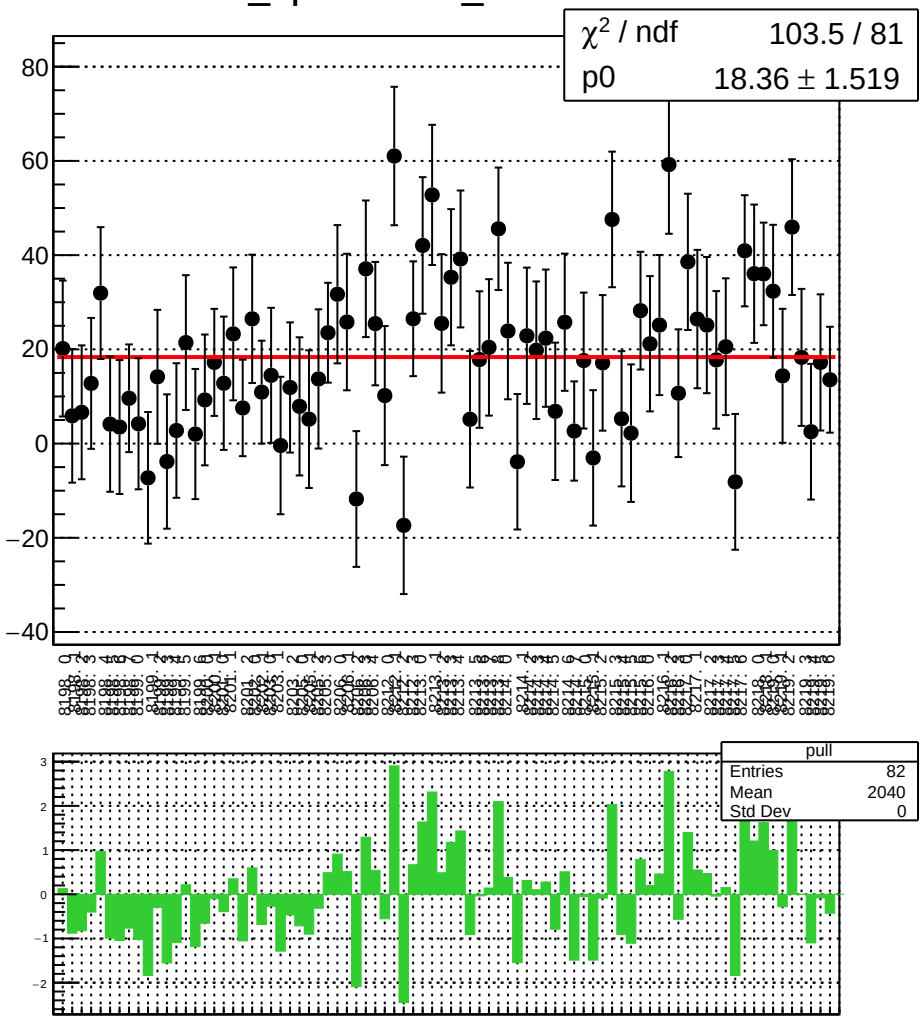

diff_bpm0i01Y_mean vs run
χ² / ndf 81.14 / 81
p0 12.2 ± 1.801
pull
Entries 82
Mean −220.5
Std Dev 0
pull1D
Entries 82
Mean −0.003863
Std Dev 0.9947

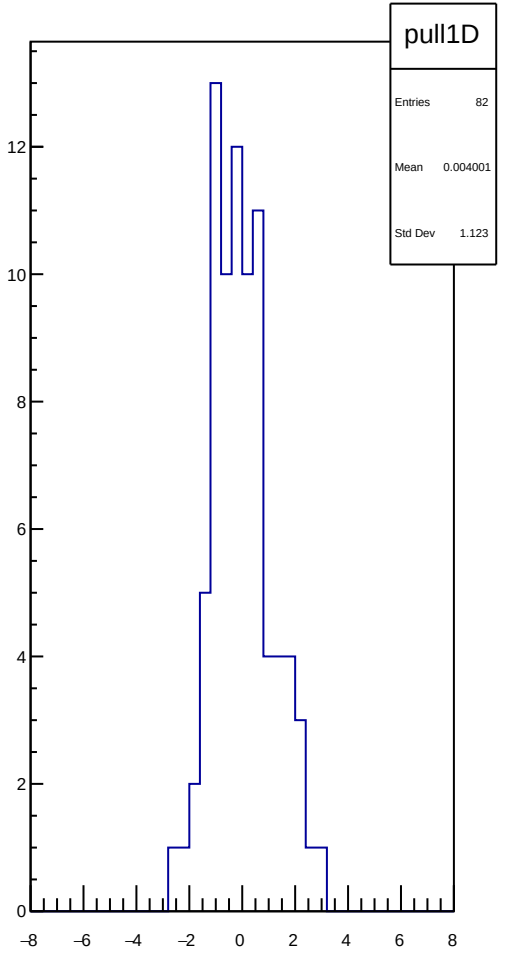

diff_bpm0i01Y_rms vs run
χ² / ndf 658.7 / 81
p0 1621 ± 1.273
1700
1650
1600
1550
1500

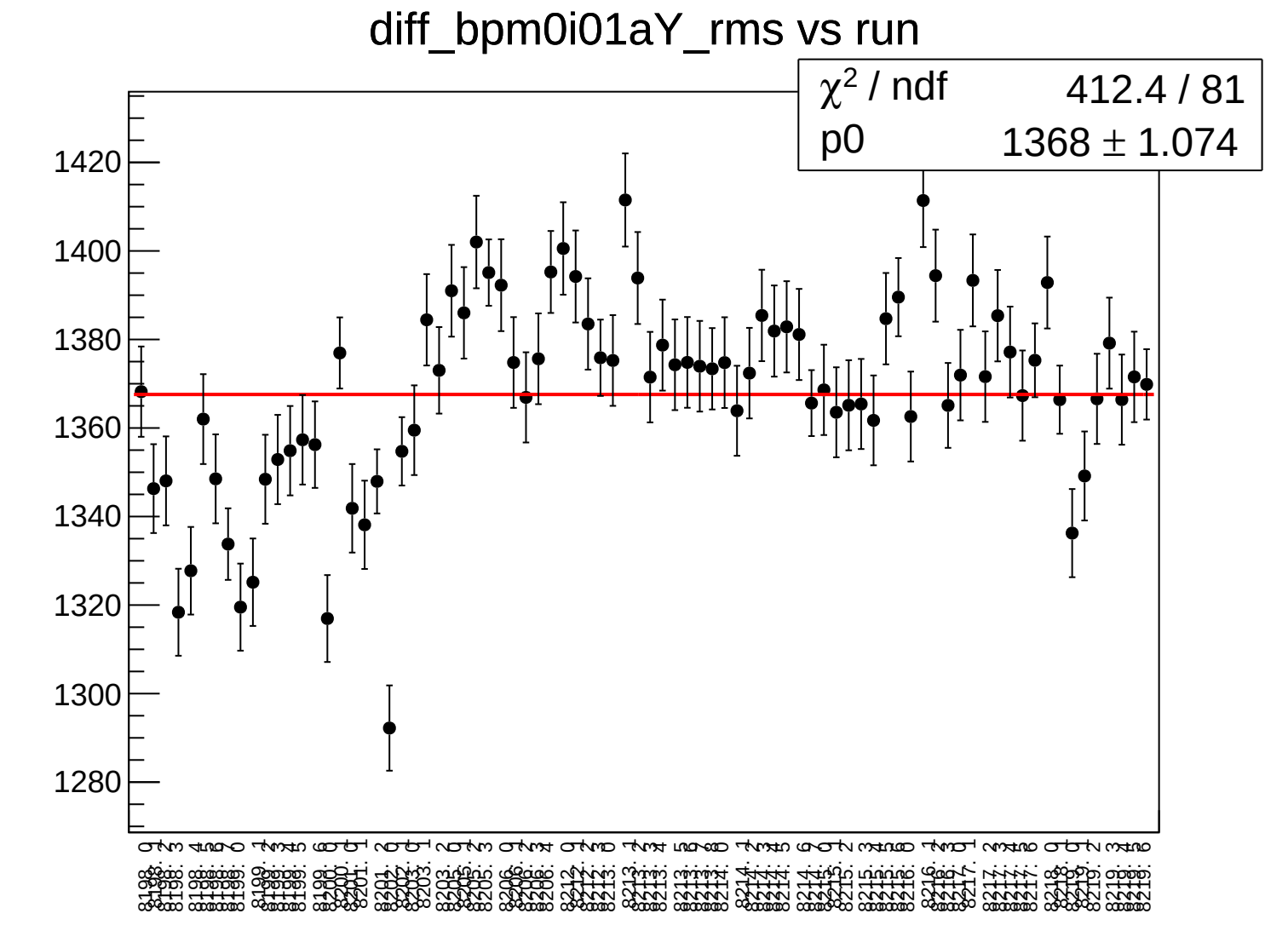

diff_bpm0i01aX_mean vs run
χ² / ndf 85.99 / 81
p0 37.2 ± 1.739
pull
Entries 82
Mean −463
Std Dev 0

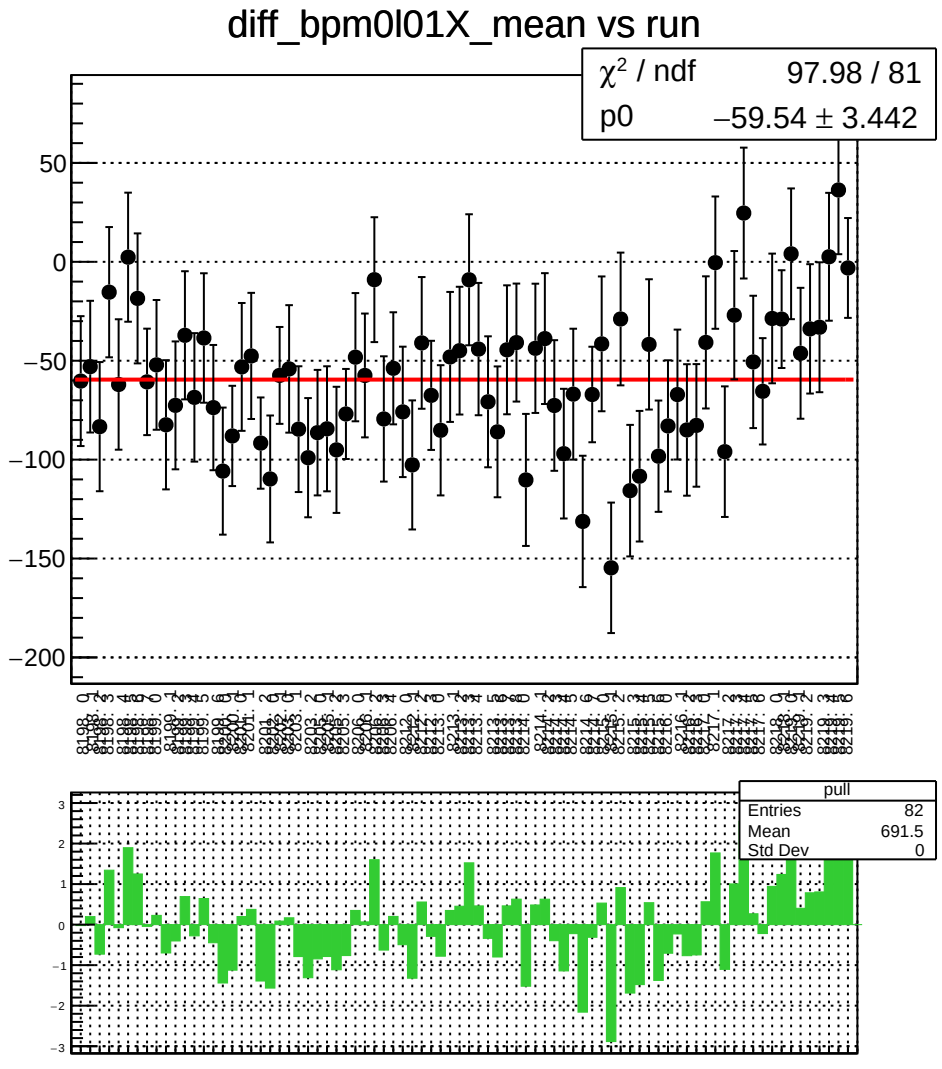

pull1D
Entries 82
Mean −0.01501
Std Dev 1.024

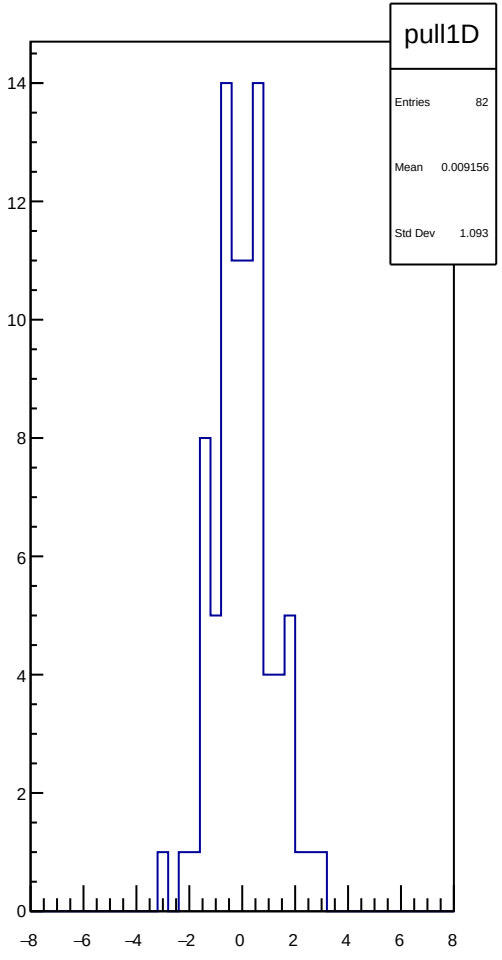

diff_bpm0i01aX_rms vs run
χ² / ndf 668.5 / 81
p0 1565 ± 1.23
1650
1600
1550
1500
1450

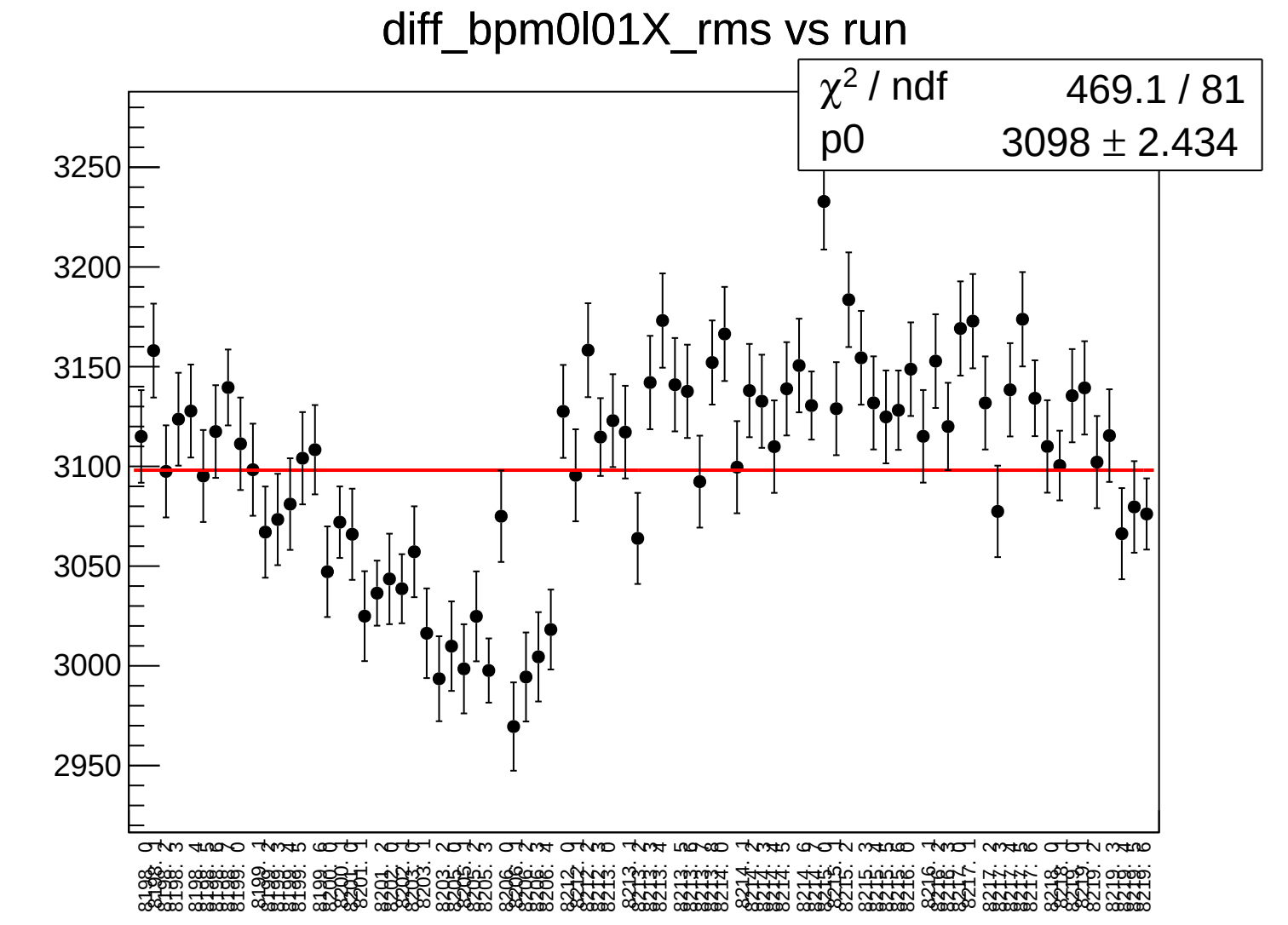

diff_bpm0i01aY_mean vs run
χ² / ndf 103.5 / 81
p0 18.36 ± 1.519
pull
Entries 82
Mean 2040
Std Dev 0

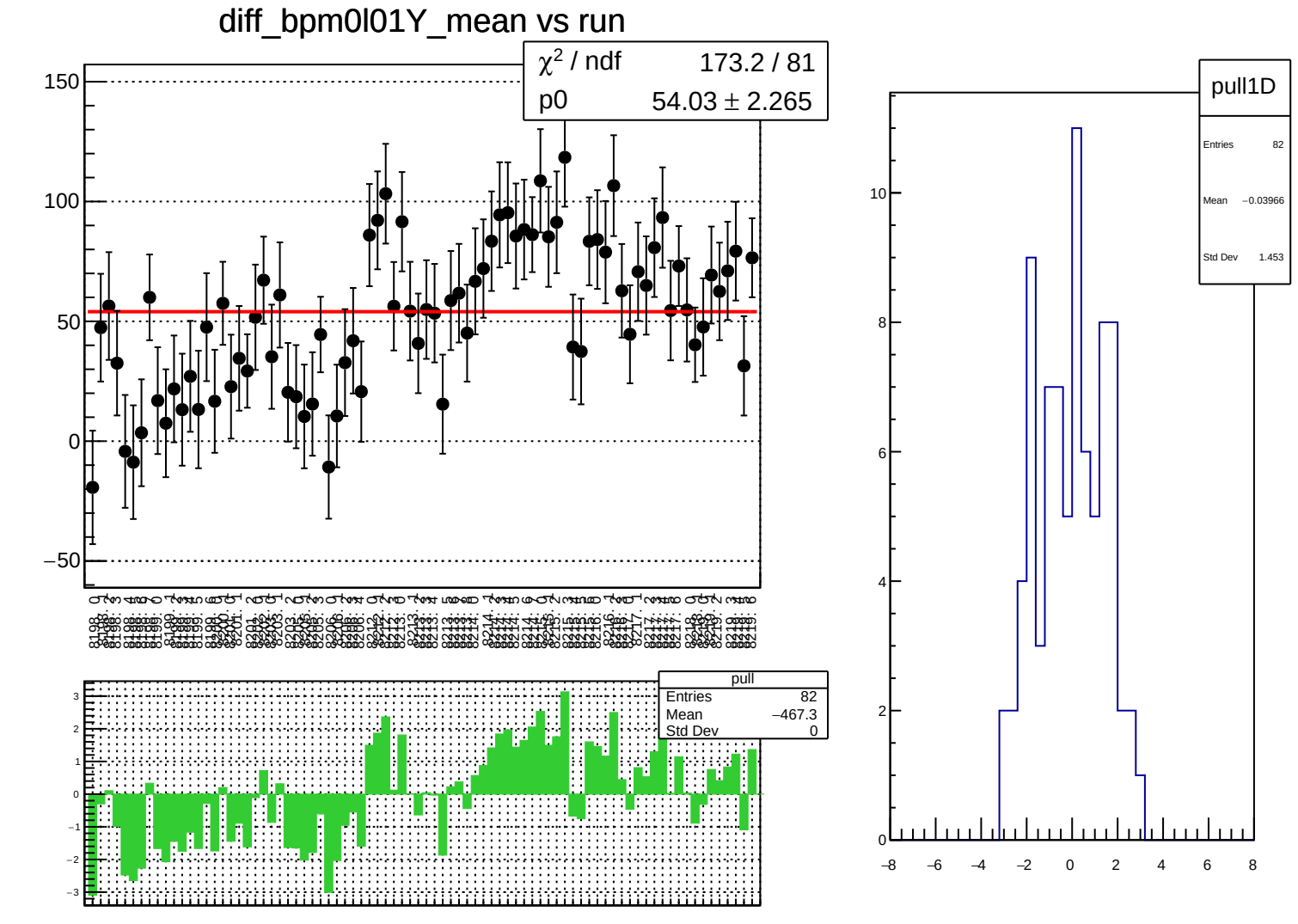

pull1D
Entries 82
Mean 0.004001
Std Dev 1.123

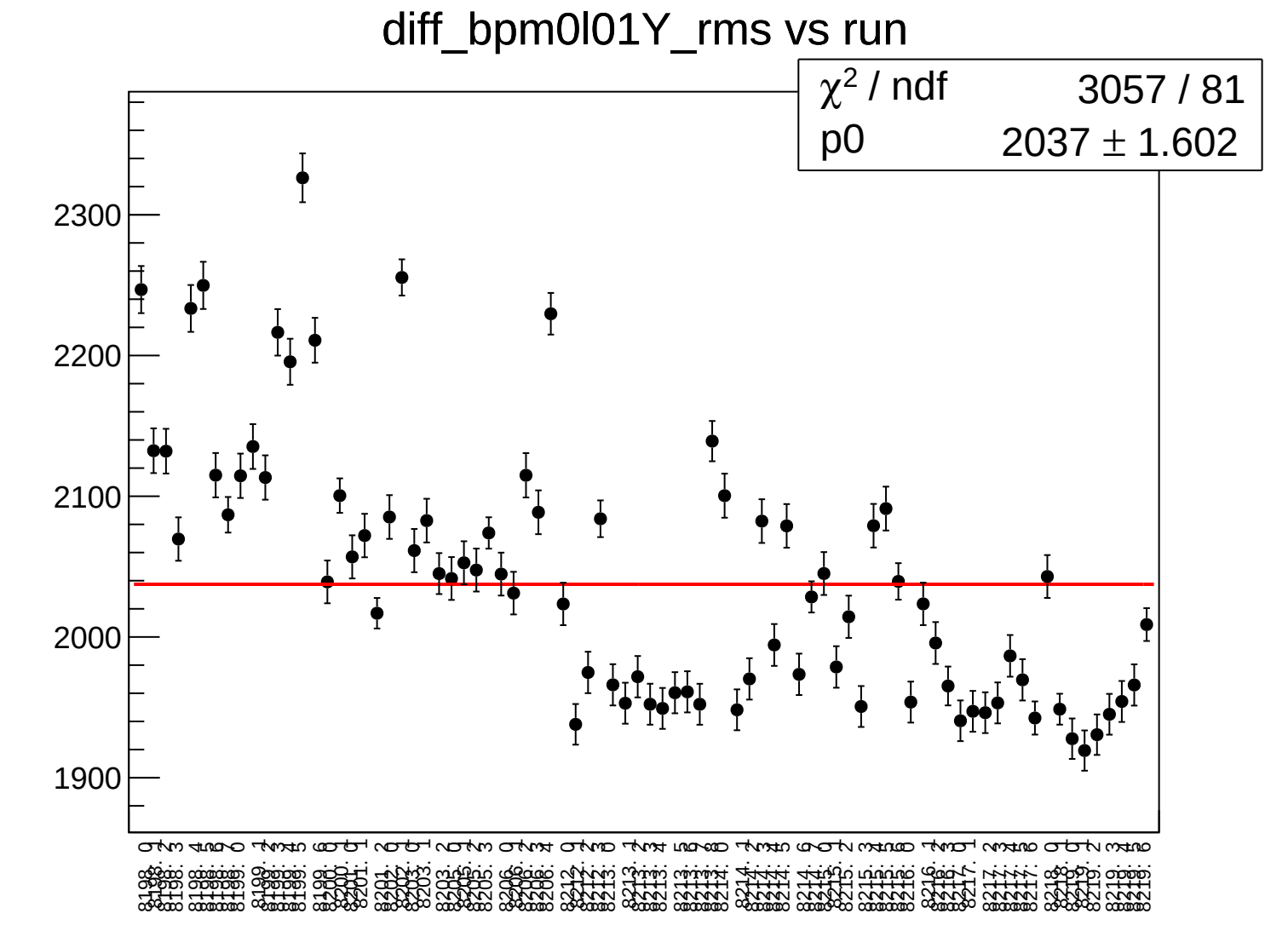

diff_bpm0i01aY_rms vs run
χ² / ndf 412.4 / 81
p0 1368 ± 1.074
1420
1400
1380
1360
1340
1320
1300
1280

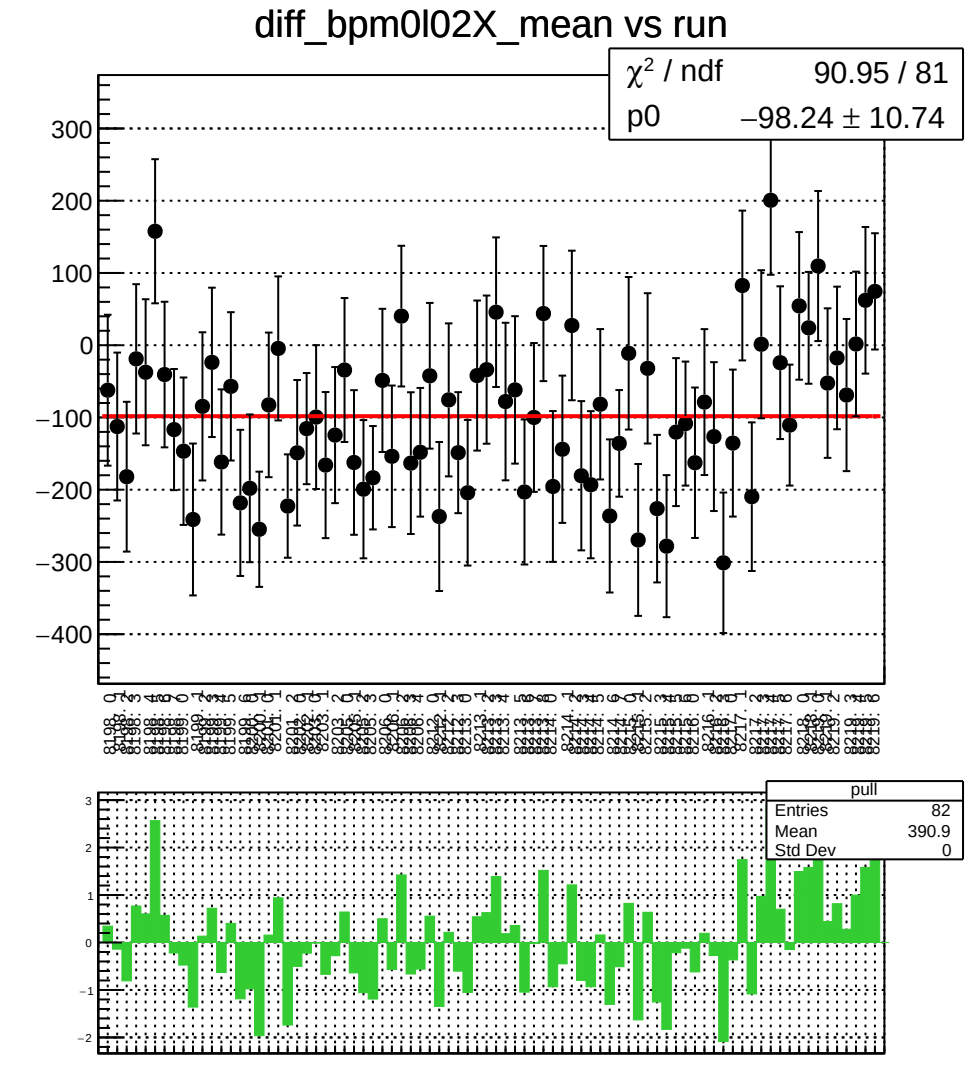

diff_bpm0l01X_mean vs run
χ² / ndf 97.98 / 81
p0 −59.54 ± 3.442
pull
Entries 82
Mean 691.5
Std Dev 0

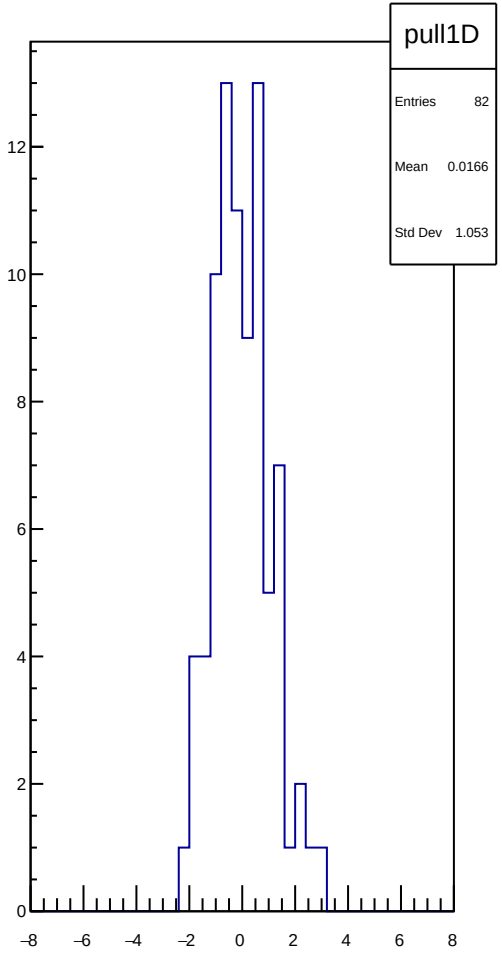

pull1D
Entries 82
Mean 0.009156
Std Dev 1.093

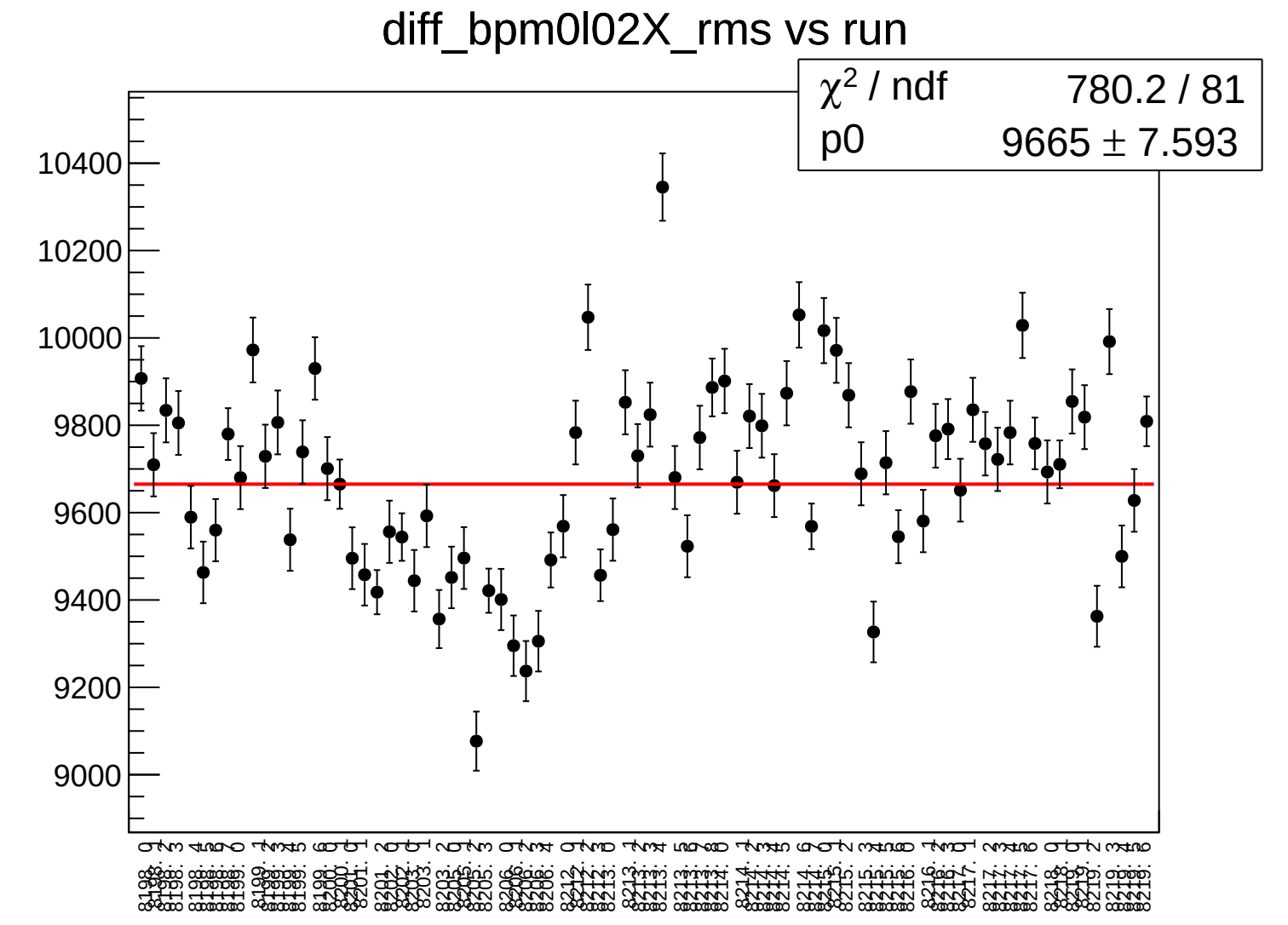

diff_bpm0l01X_rms vs run
χ² / ndf 469.1 / 81
p0 3098 ± 2.434
3250
3200
3150
3100
3050
3000
2950

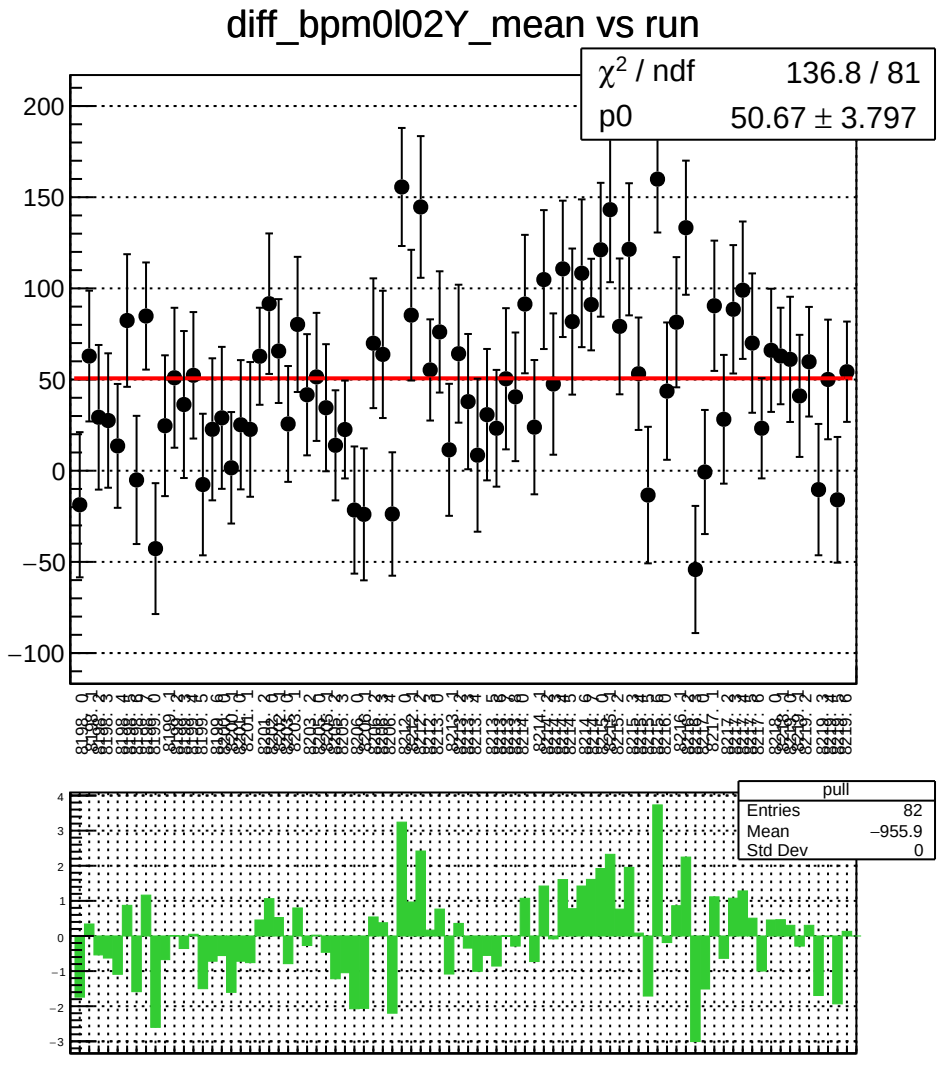

diff_bpm0l01Y_mean vs run
χ² / ndf 173.2 / 81
p0 54.03 ± 2.265
150
100
50
0
−50
pull
Entries 82
Mean −467.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.03966
Std Dev 1.453
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

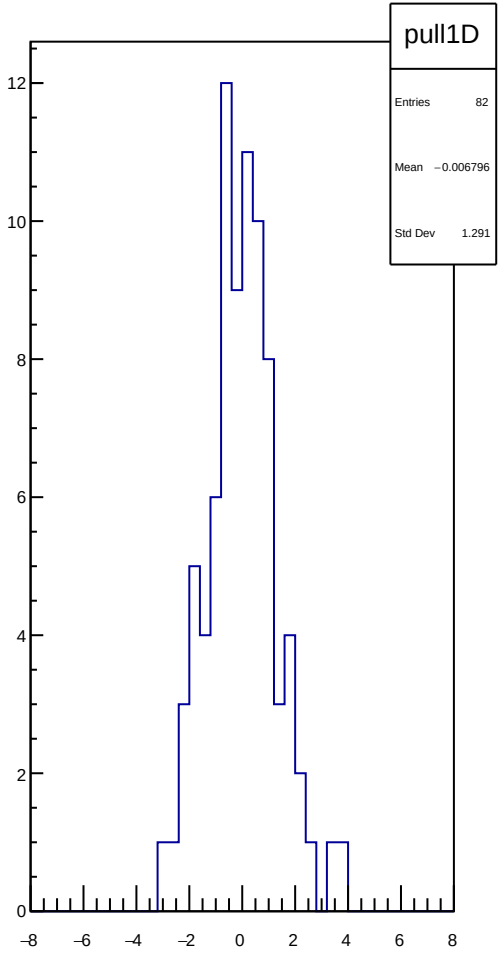

diff_bpm0l01Y_rms vs run
χ² / ndf 3057 / 81
p0 2037 ± 1.602
2300
2200
2100
2000
1900

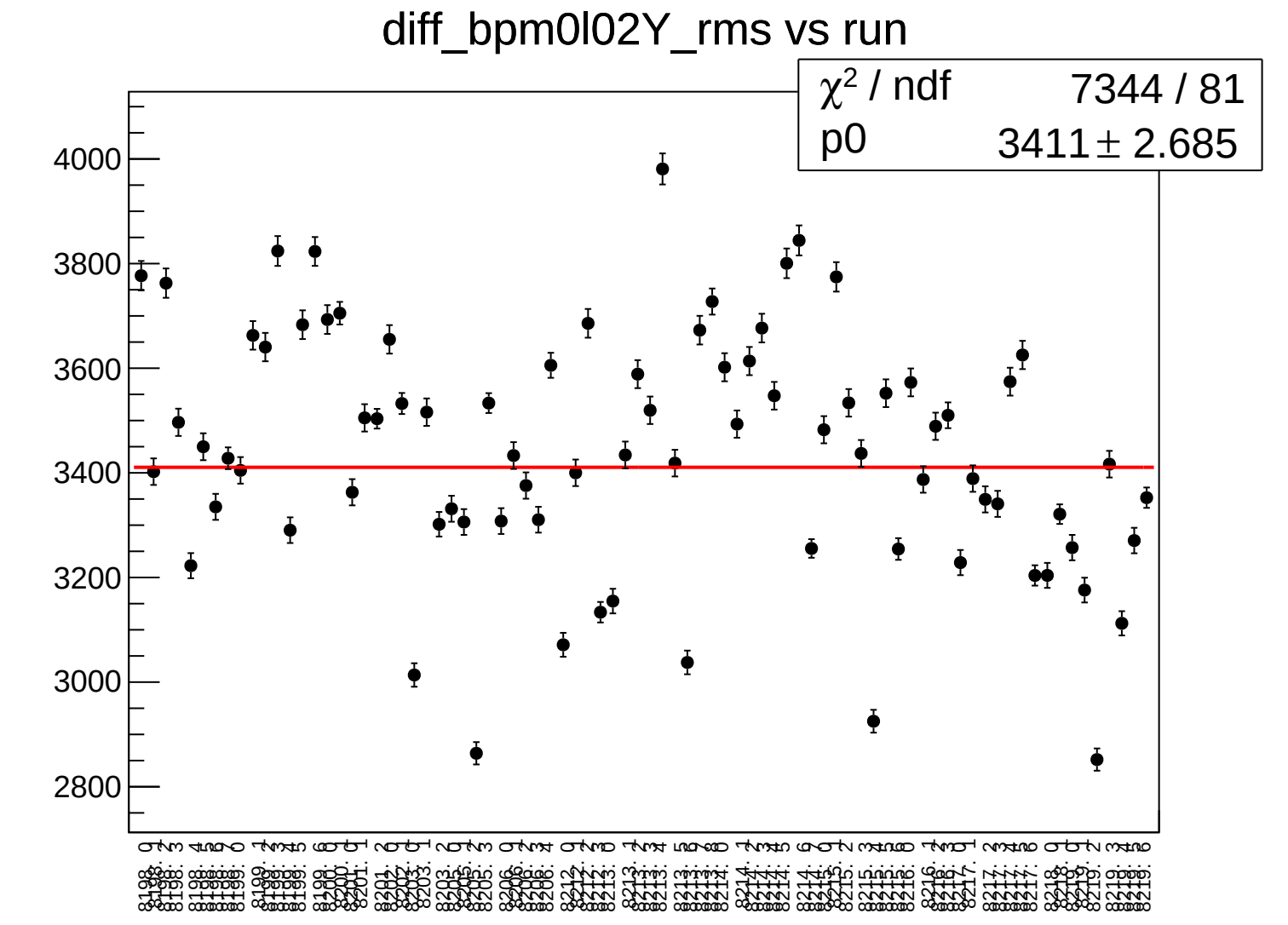

diff_bpm0l02X_mean vs run
χ² / ndf 90.95 / 81
p0 −98.24 ± 10.74
300
200
100
0
−100
−200
−300
−400
pull
Entries 82
Mean 390.9
Std Dev 0
3
2
1
0
−1
−2

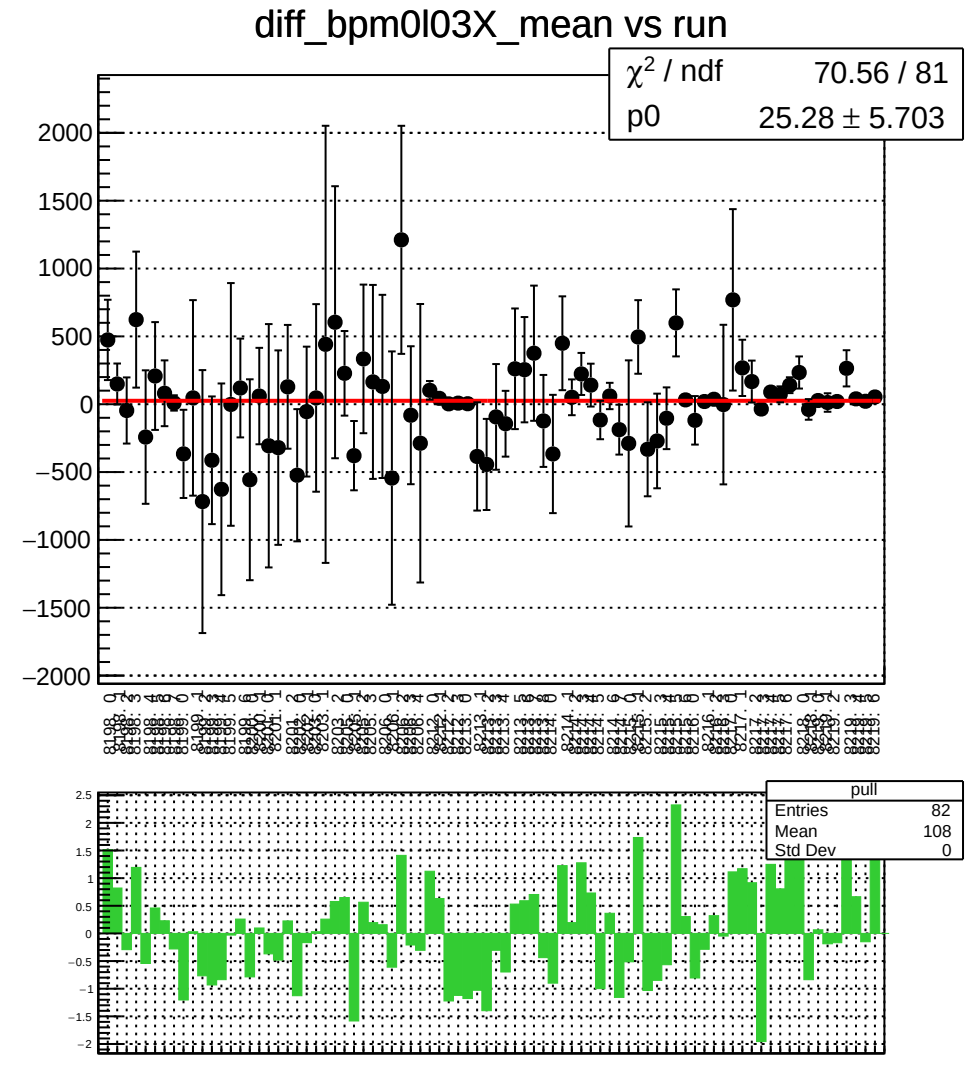

pull1D
Entries 82
Mean 0.0166
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

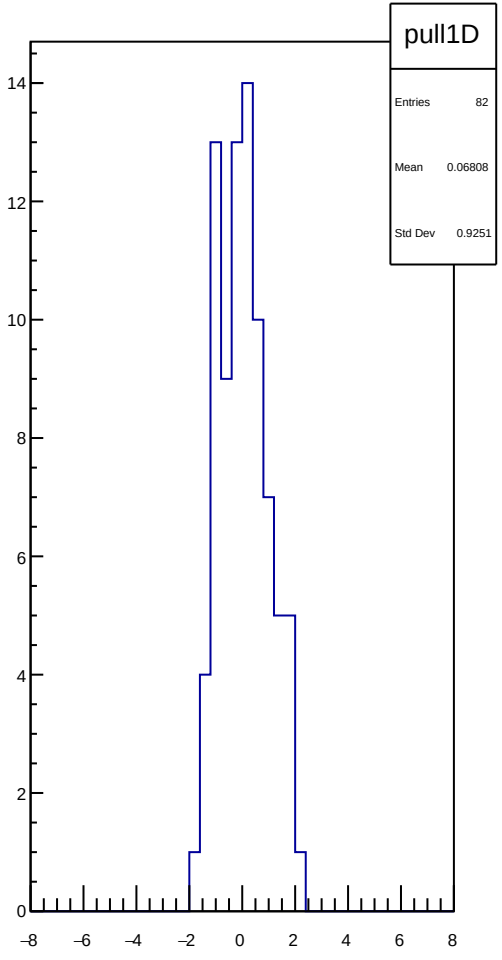

diff_bpm0l02X_rms vs run
χ² / ndf 780.2 / 81
p0 9665 ± 7.593
10400
10200
10000
9800
9600
9400
9200
9000

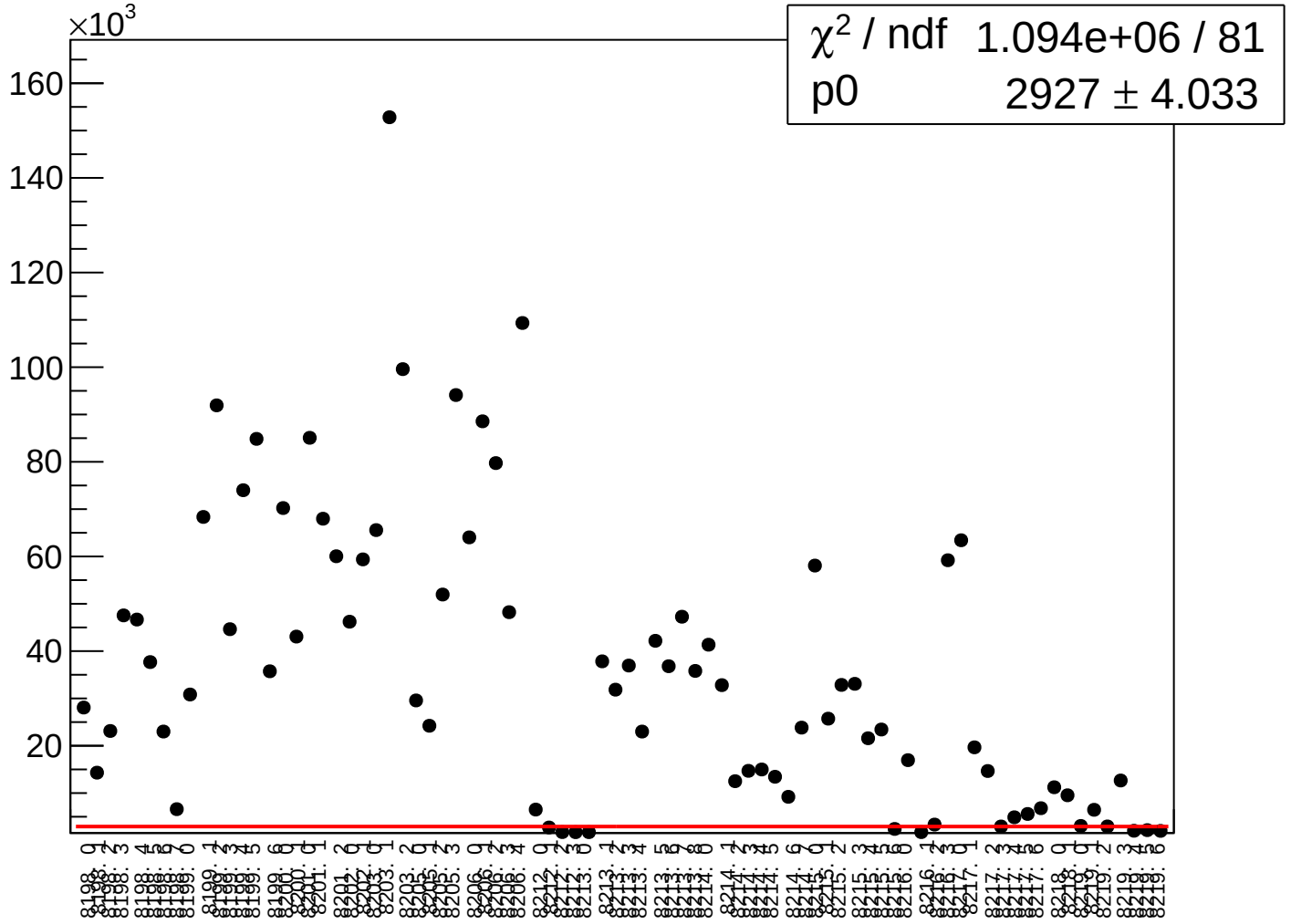

diff_bpm0l02Y_mean vs run
$\chi^2$ / ndf 136.8 / 81
p0 50.67 ± 3.797
pull
Entries 82
Mean −955.9
Std Dev 0

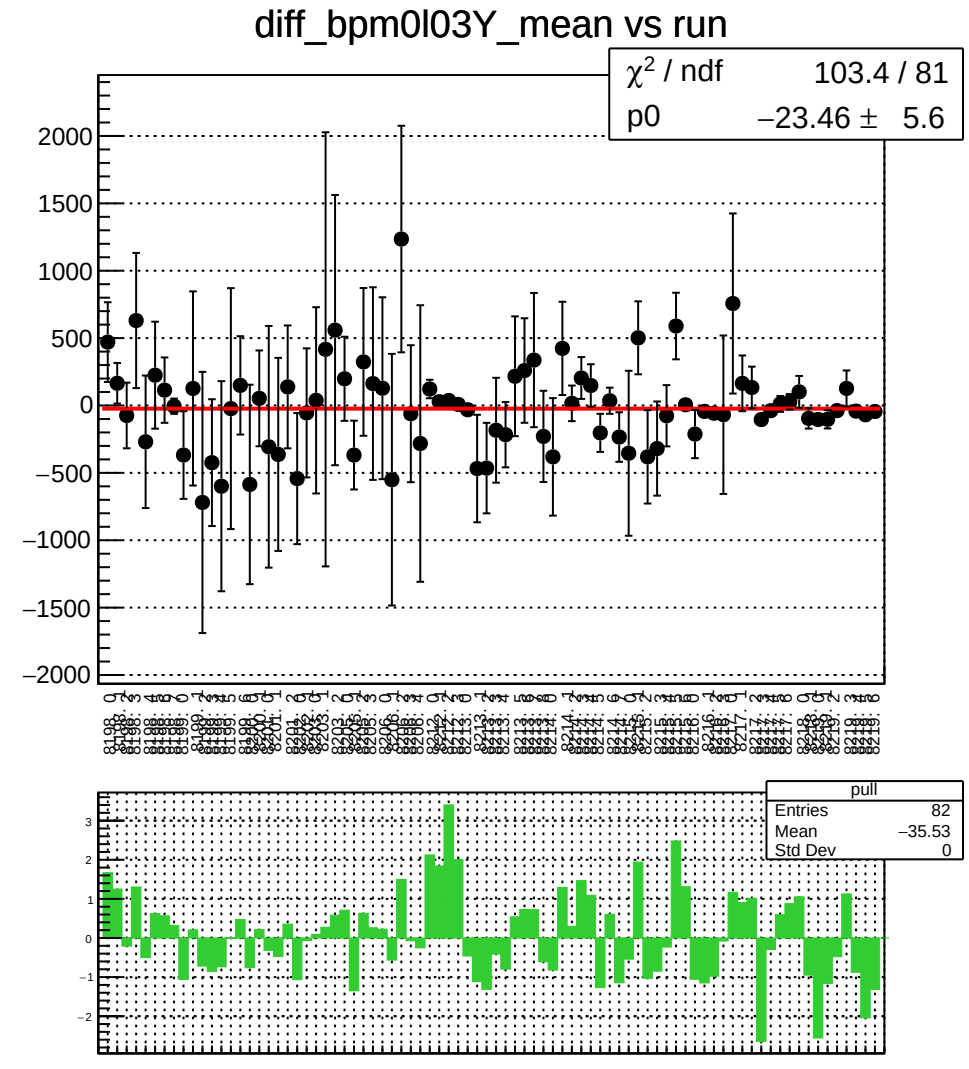

pull1D
Entries 82
Mean −0.006796
Std Dev 1.291

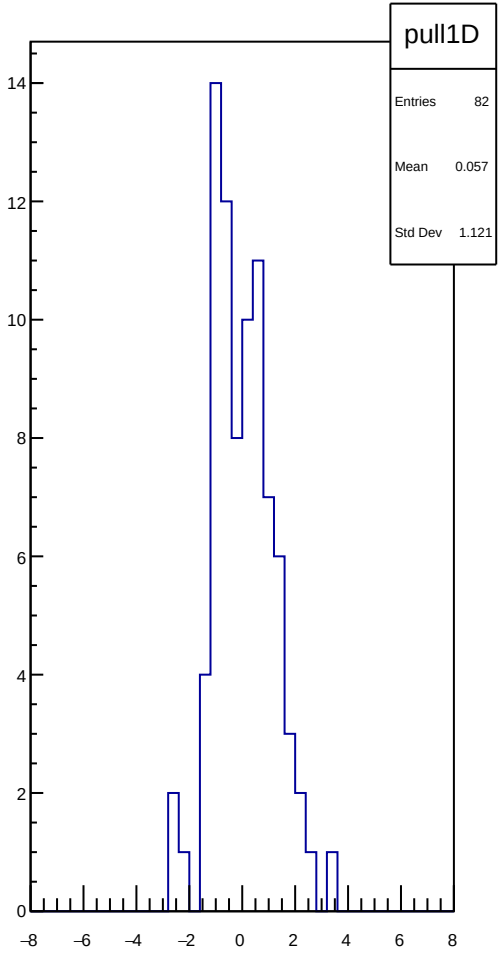

diff_bpm0l02Y_rms vs run
χ² / ndf 7344 / 81
p0 3411 ± 2.685
4000
3800
3600
3400
3200
3000
2800

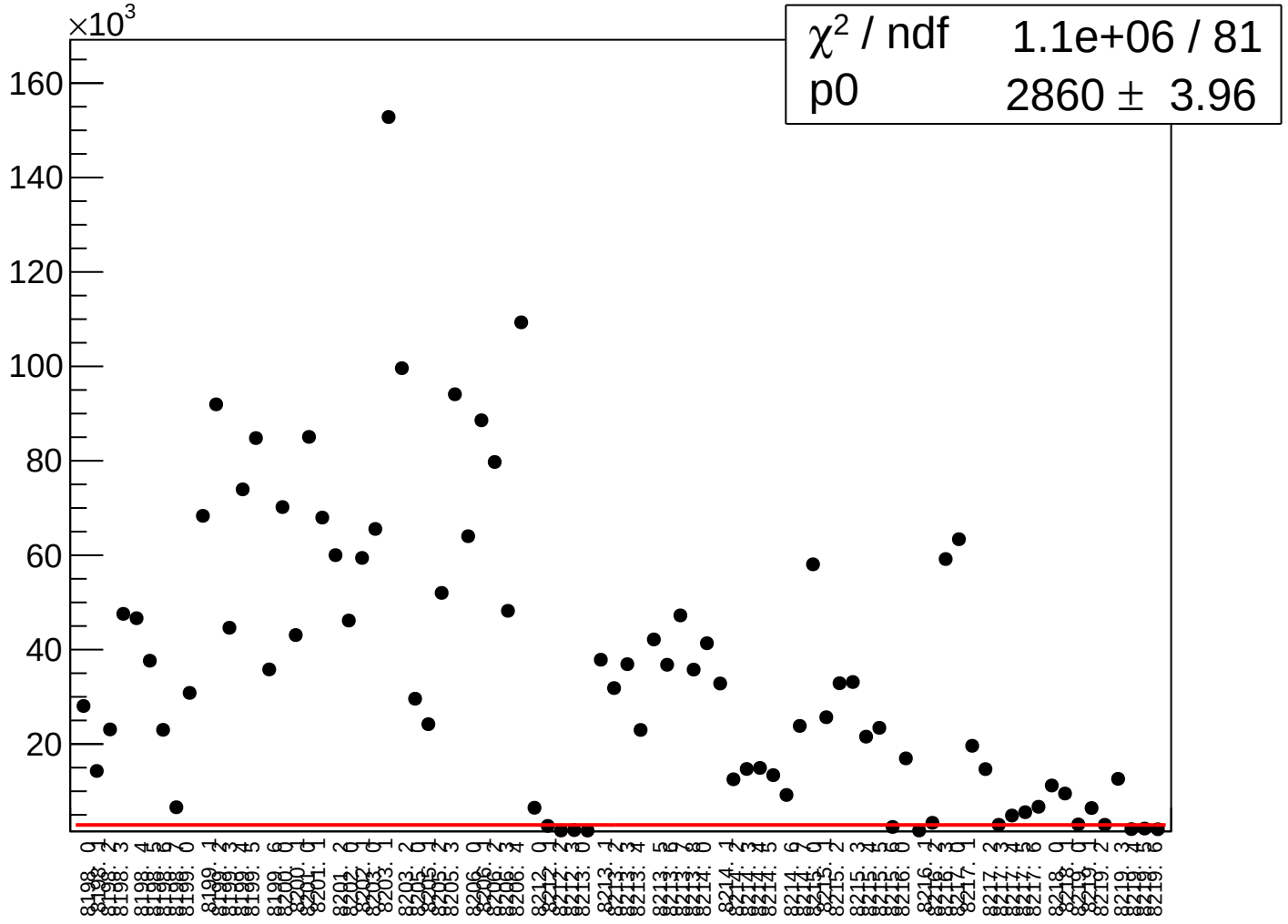

diff_bpm0l03X_mean vs run
χ² / ndf 70.56 / 81
p0 25.28 ± 5.703
pull
Entries 82
Mean 108
Std Dev 0

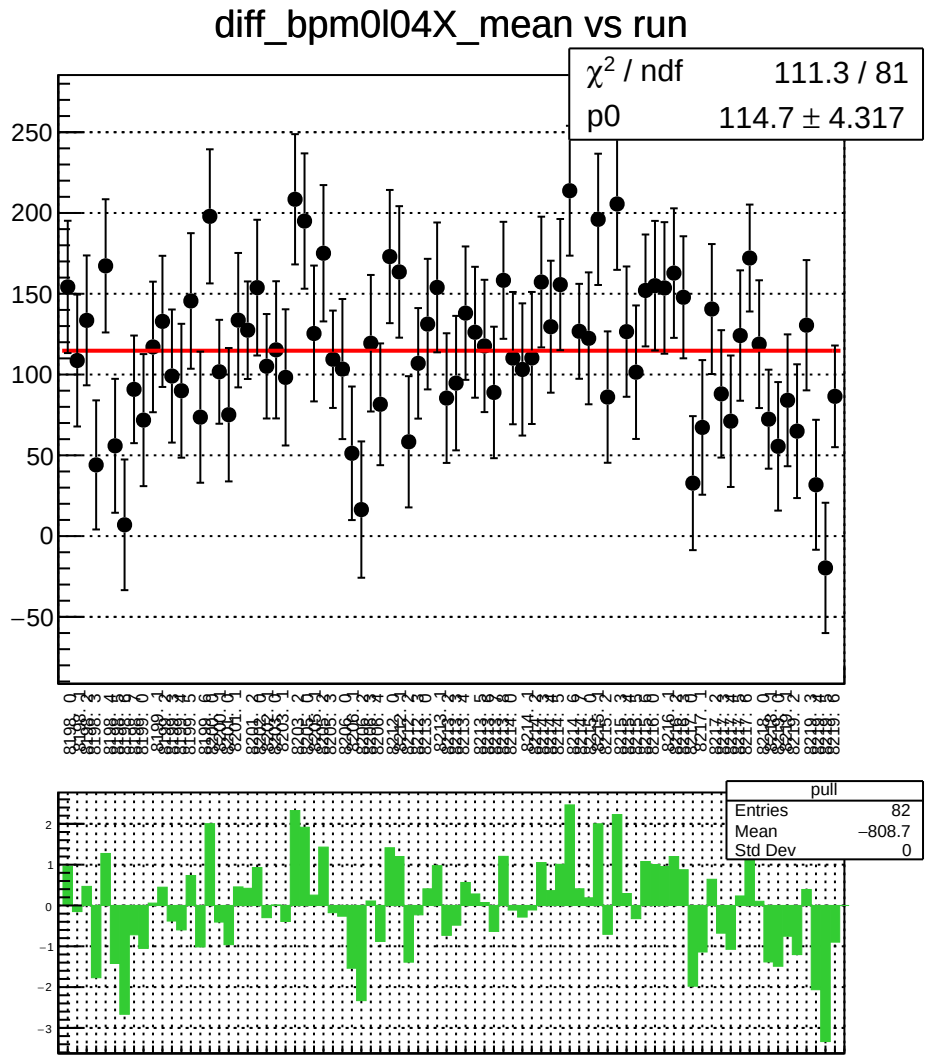

pull1D
Entries 82
Mean 0.06808
Std Dev 0.9251

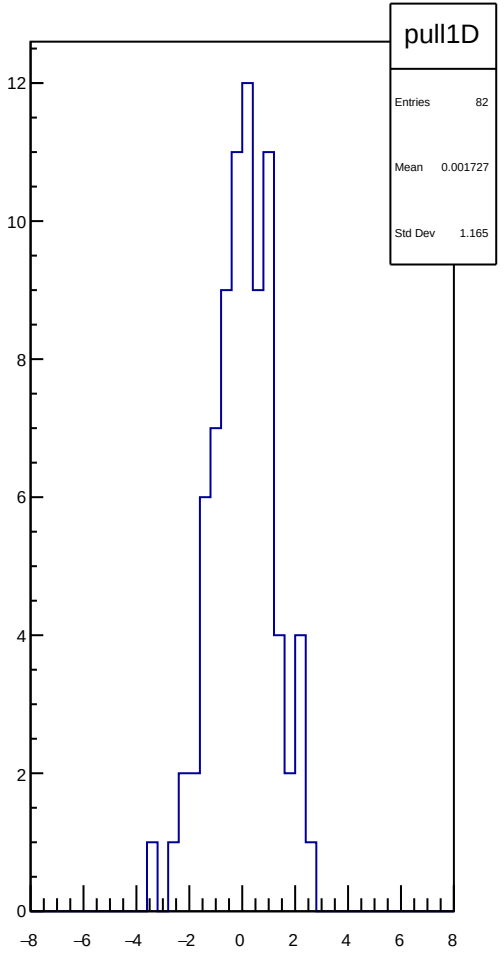

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 1.094e+06 / 81
p0 2927 ± 4.033
160
140
120
100
80
60
40
20

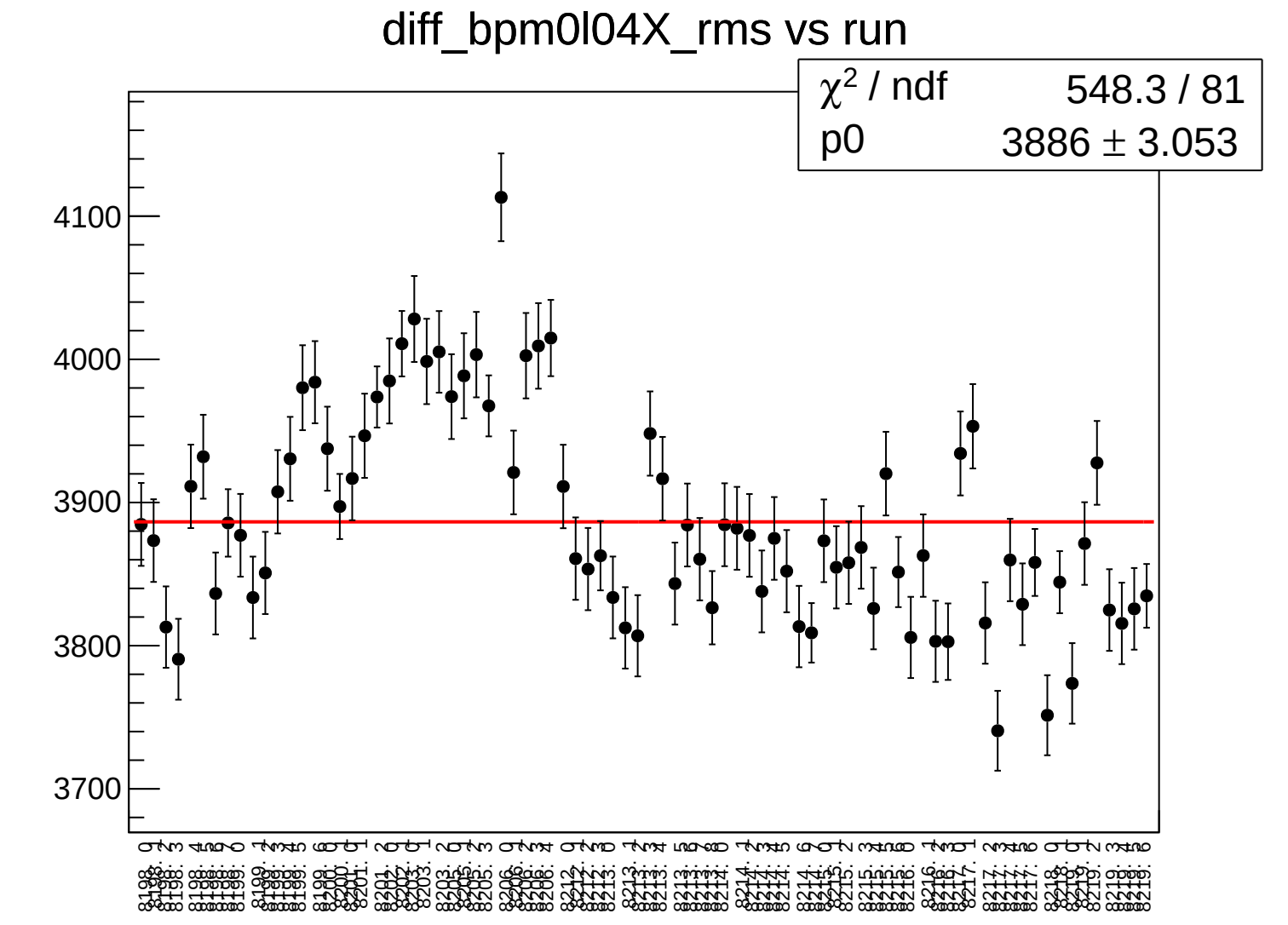

diff_bpm0l03Y_mean vs run
χ² / ndf 103.4 / 81
p0 −23.46 ± 5.6
pull
Entries 82
Mean −35.53
Std Dev 0

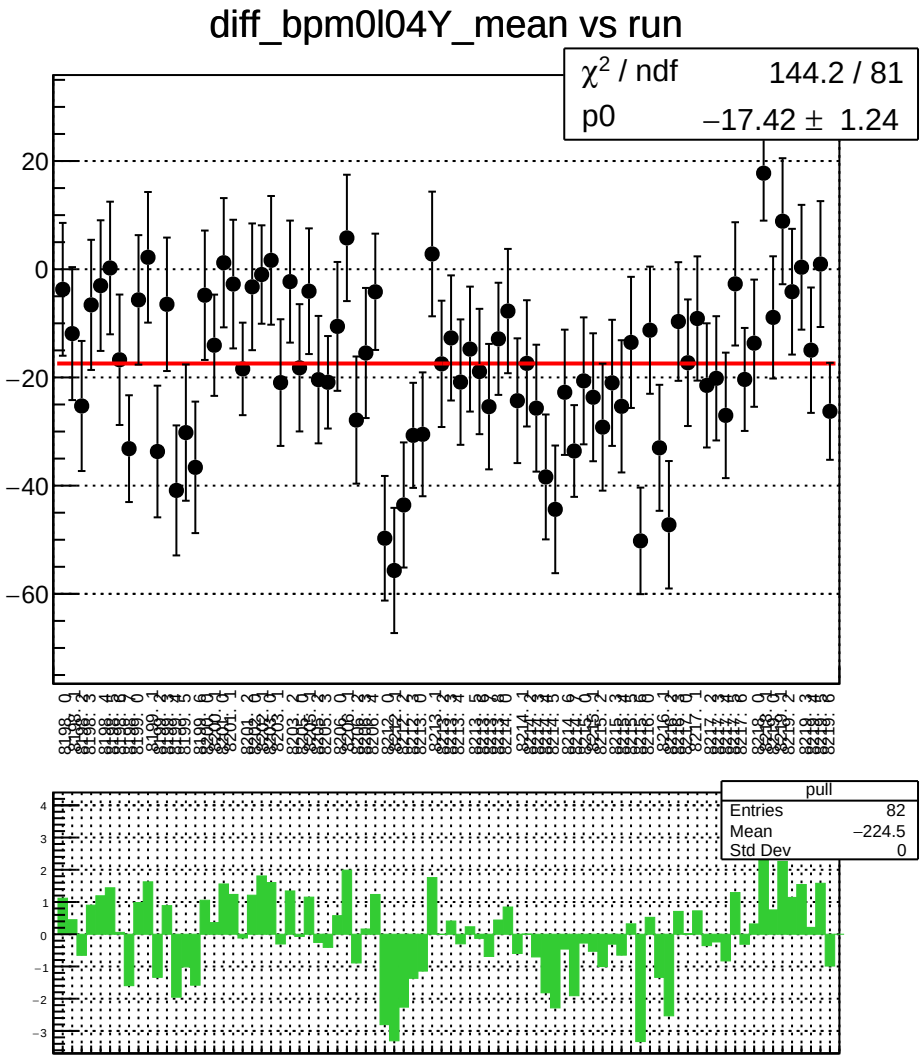

pull1D
Entries 82
Mean 0.057
Std Dev 1.121

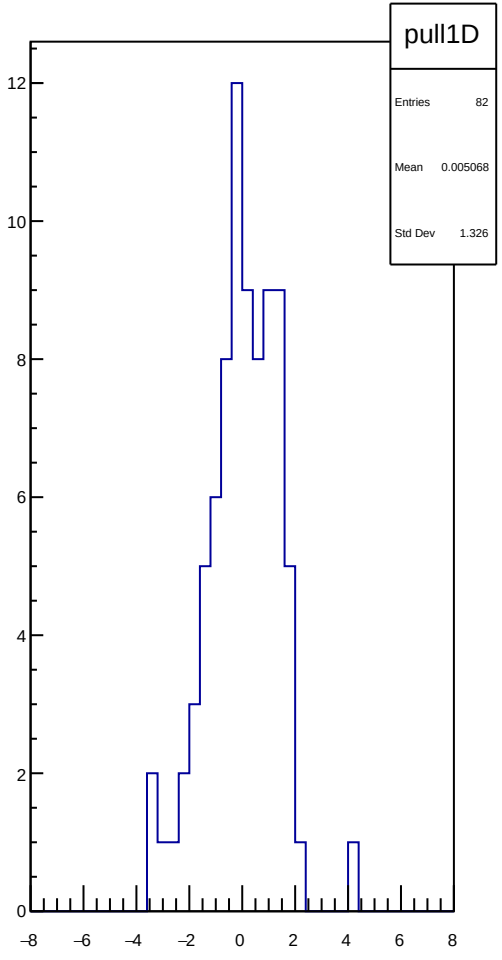

diff_bpm0l03Y_rms vs run
×10^3
χ² / ndf 1.1e+06 / 81
p0 2860 ± 3.96
160
140
120
100
80
60
40
20

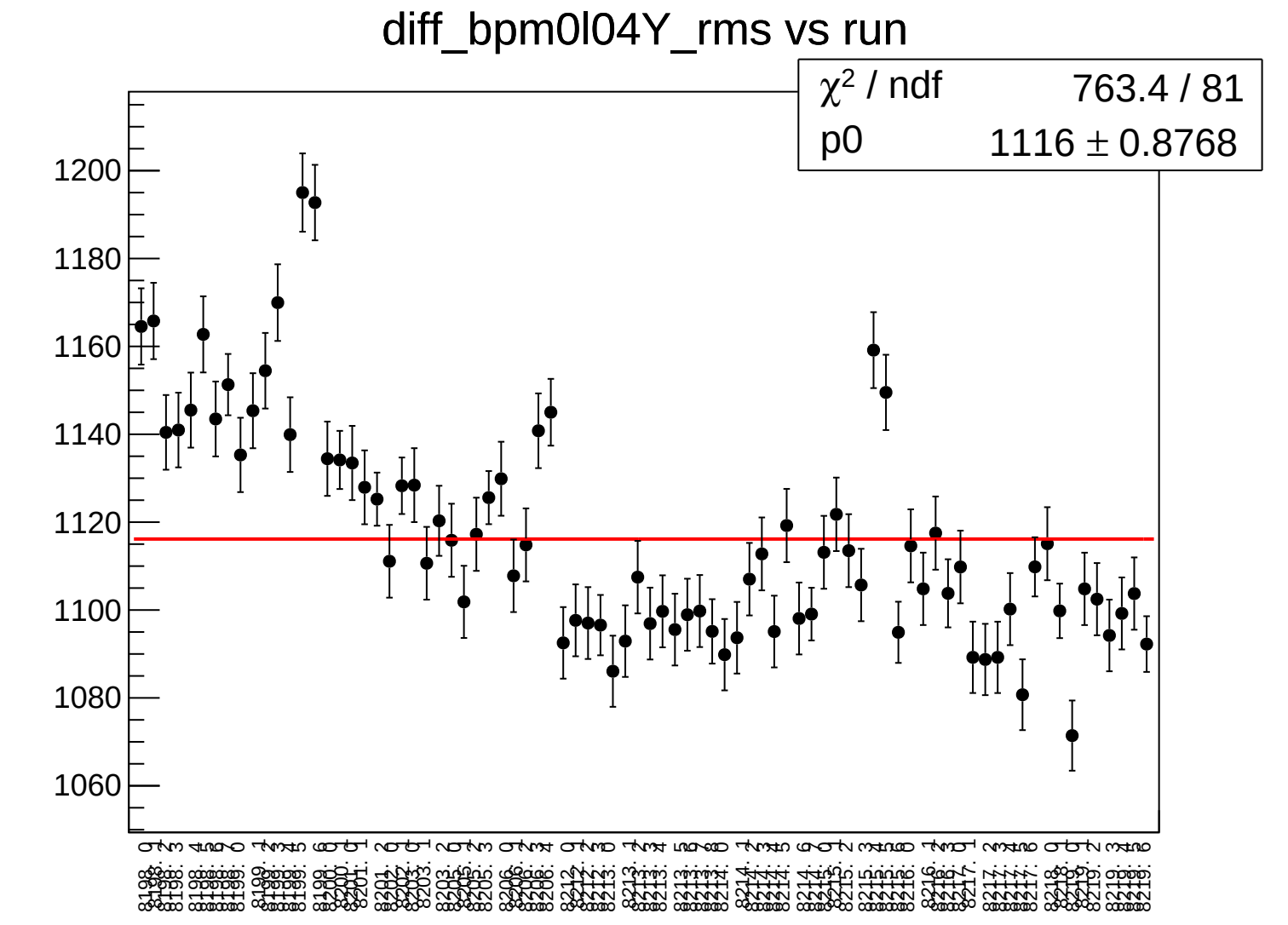

diff_bpm0l04X_mean vs run
χ² / ndf 111.3 / 81
p0 114.7 ± 4.317
250
200
150
100
50
0
−50
pull
Entries 82
Mean −808.7
Std Dev 0
2
1
0
−1
−2
−3

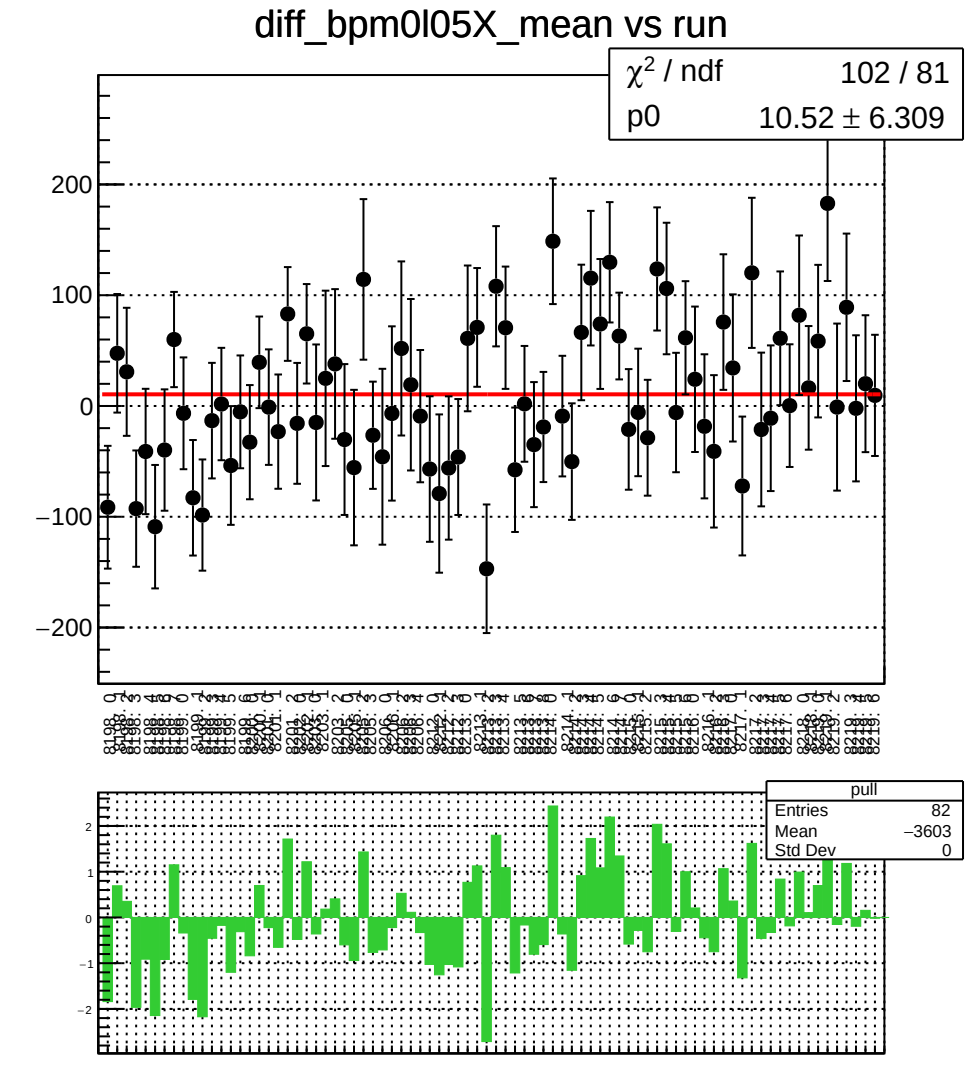

pull1D
Entries 82
Mean 0.001727
Std Dev 1.165
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

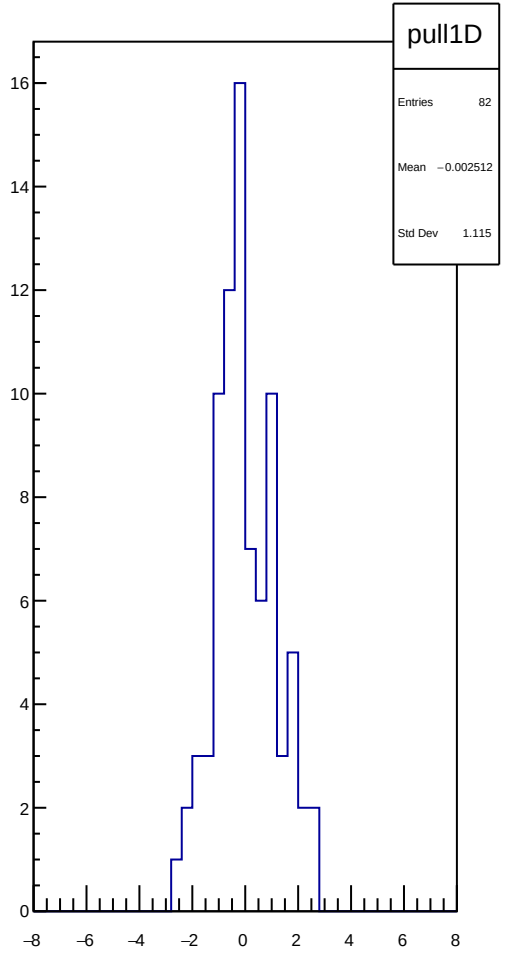

diff_bpm0l04X_rms vs run
χ² / ndf 548.3 / 81
p0 3886 ± 3.053
4100
4000
3900
3800
3700

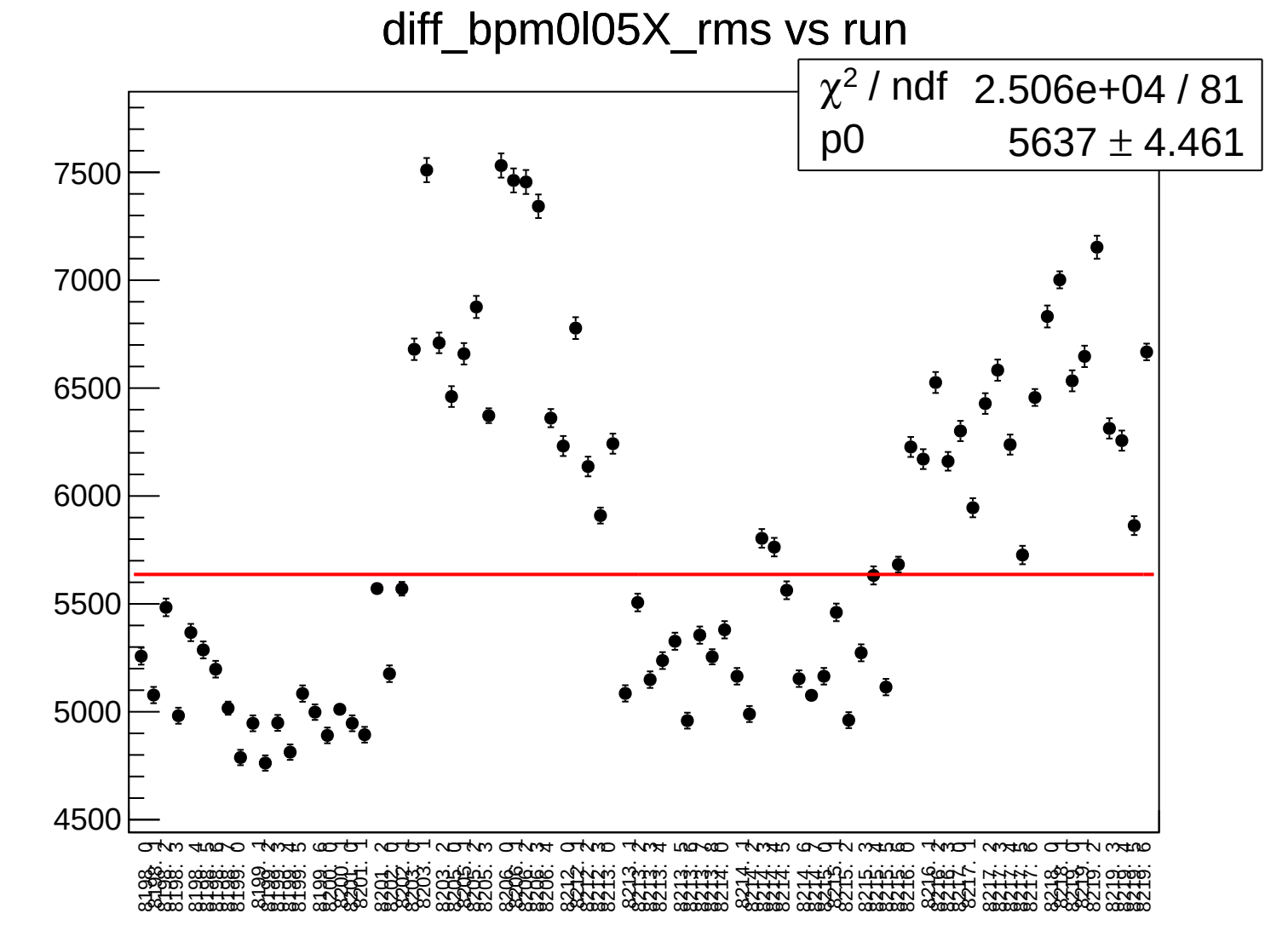

diff_bpm0l04Y_mean vs run
χ² / ndf 144.2 / 81
p0 −17.42 ± 1.24
pull
Entries 82
Mean −224.5
Std Dev 0

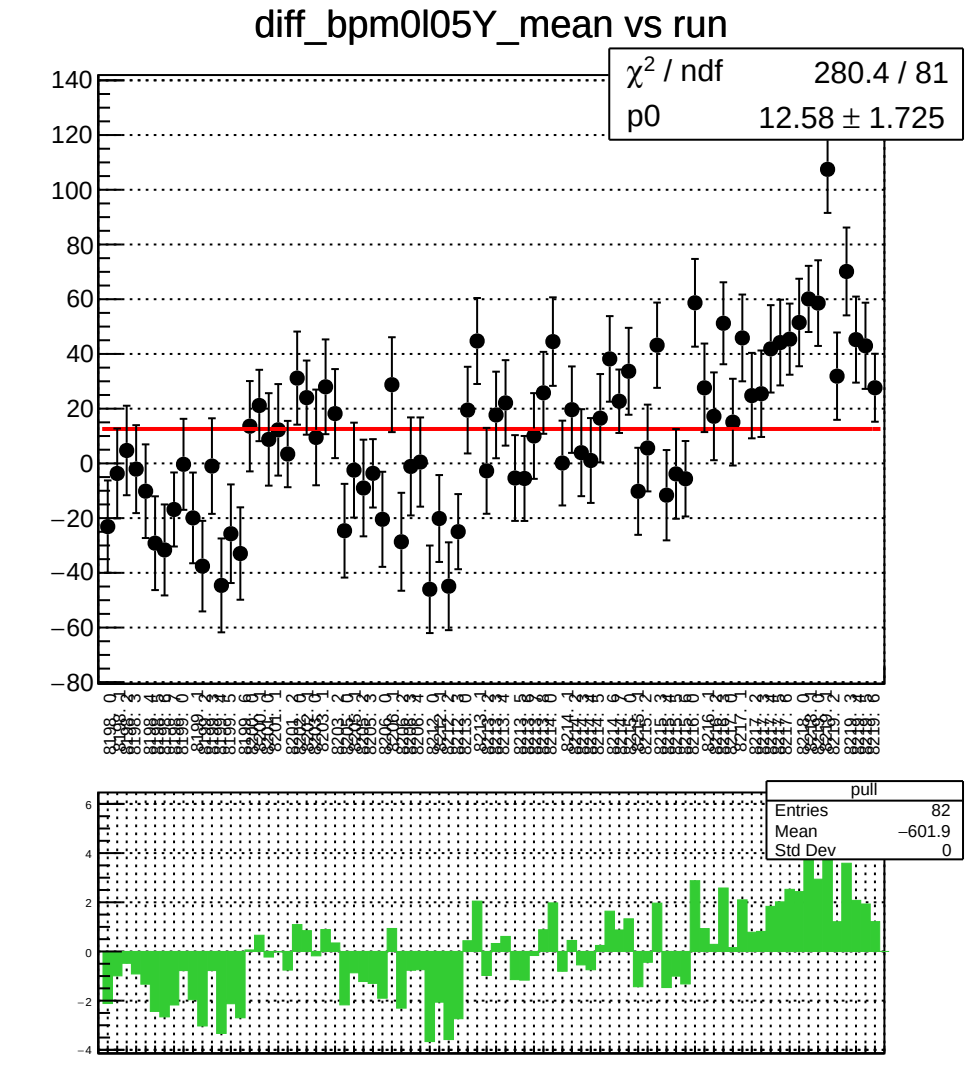

pull1D
Entries 82
Mean 0.005068
Std Dev 1.326

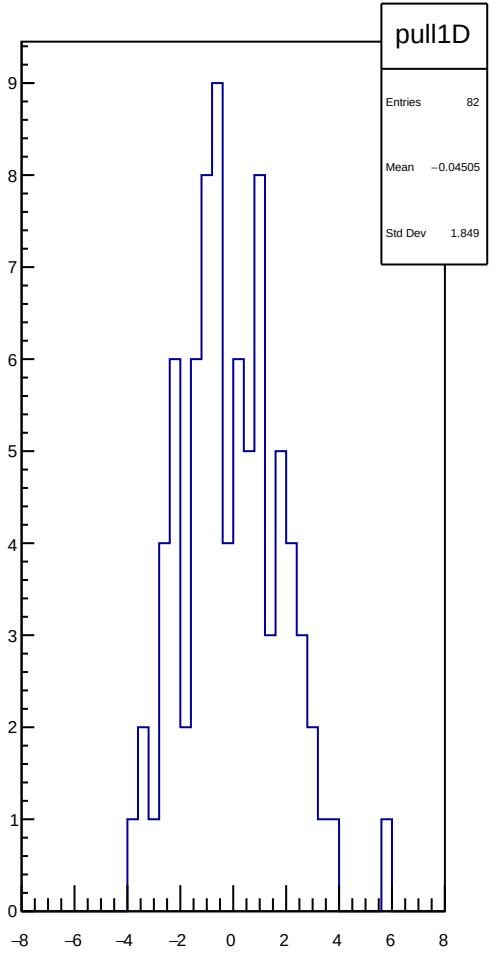

diff_bpm0l04Y_rms vs run
χ² / ndf 763.4 / 81
p0 1116 ± 0.8768
1200
1180
1160
1140
1120
1100
1080
1060

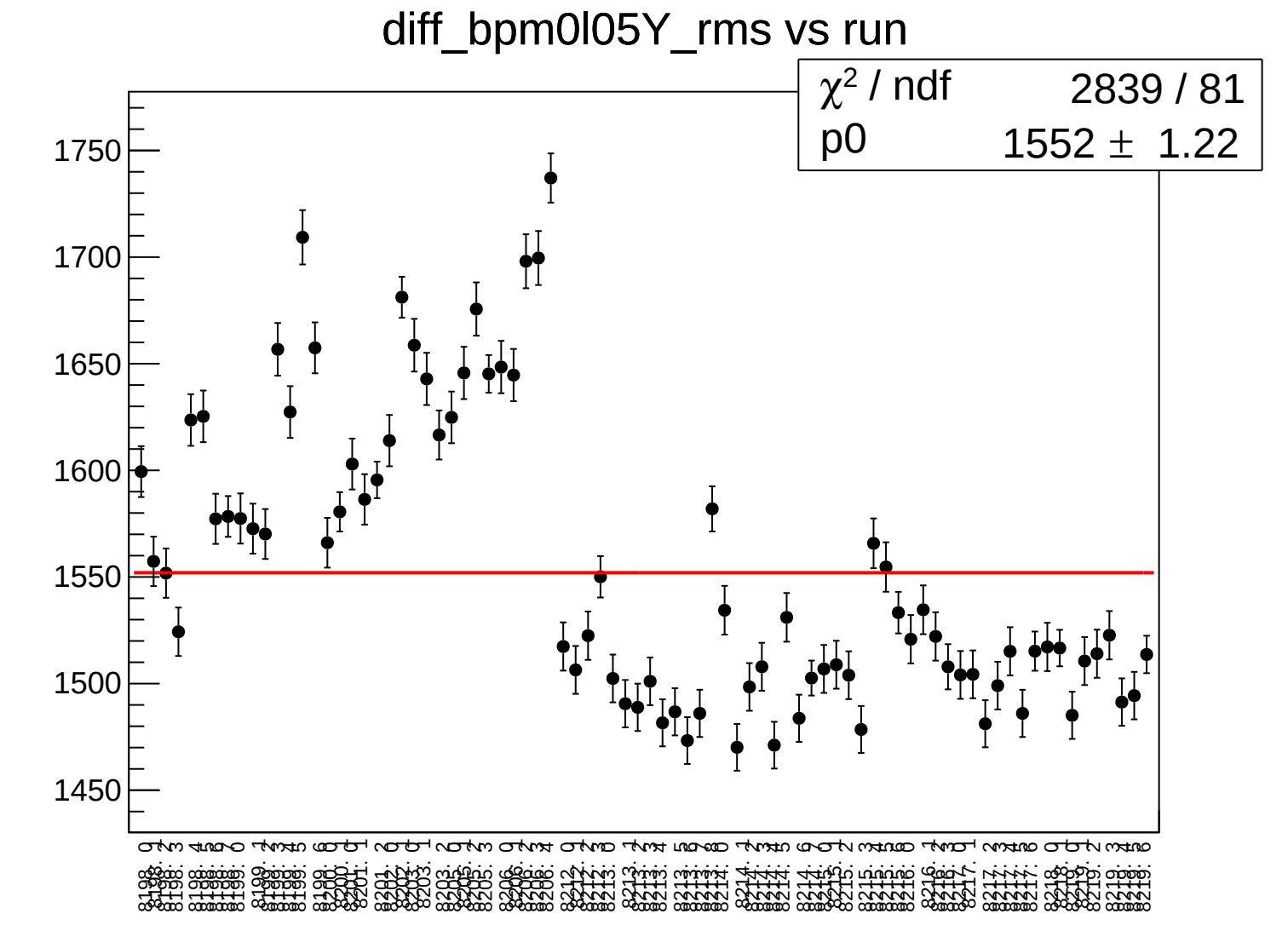

diff_bpm0l05X_mean vs run
χ² / ndf 102 / 81
p0 10.52 ± 6.309
200
100
0
−100
−200
pull
Entries 82
Mean −3603
Std Dev 0
2
1
0
−1
−2

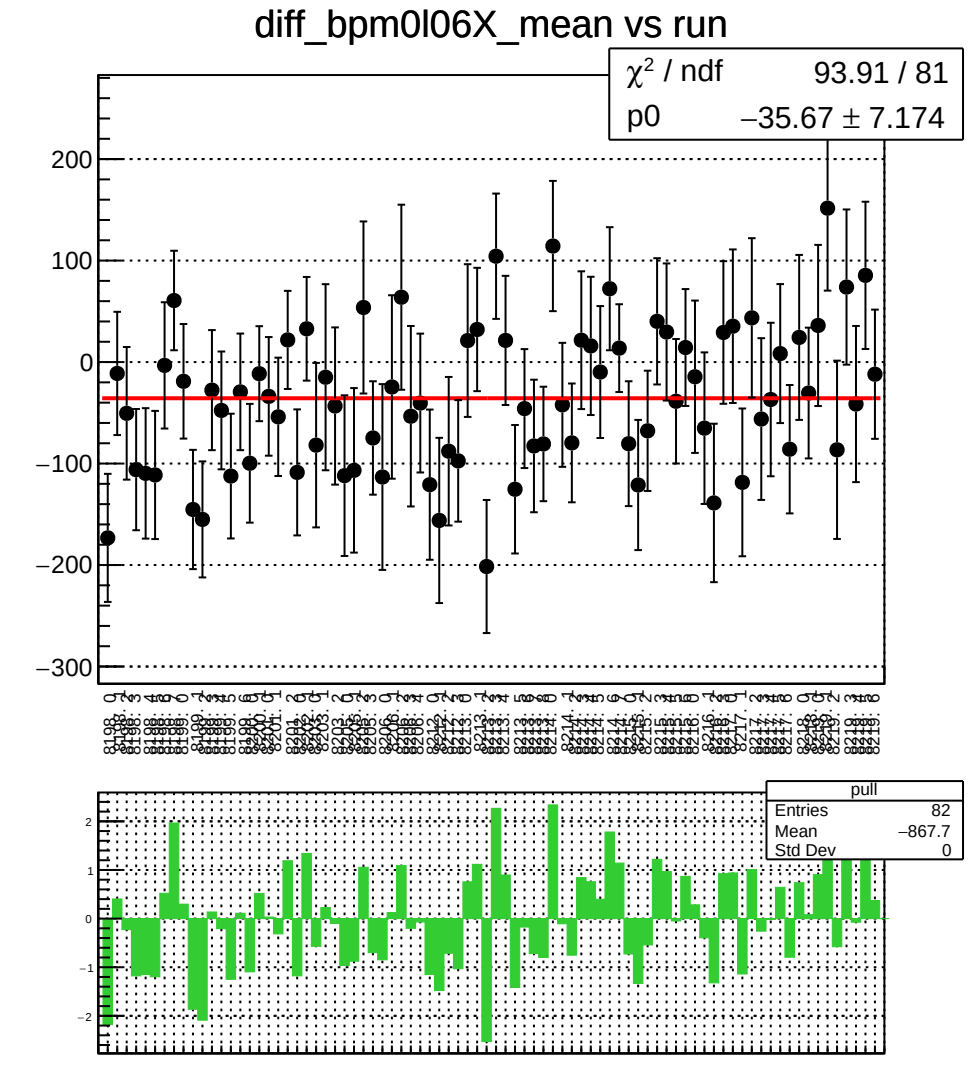

pull1D
Entries 82
Mean −0.002512
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

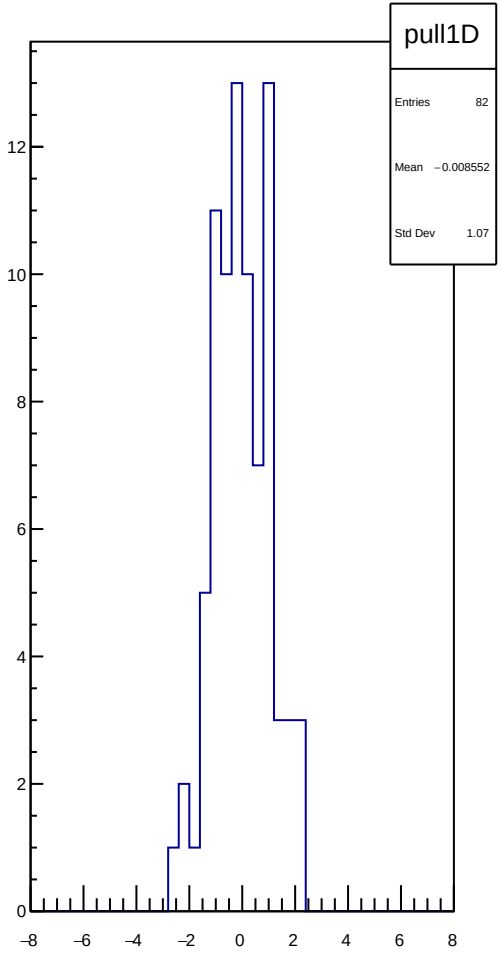

diff_bpm0l05X_rms vs run
χ² / ndf 2.506e+04 / 81
p0 5637 ± 4.461
7500
7000
6500
6000
5500
5000
4500

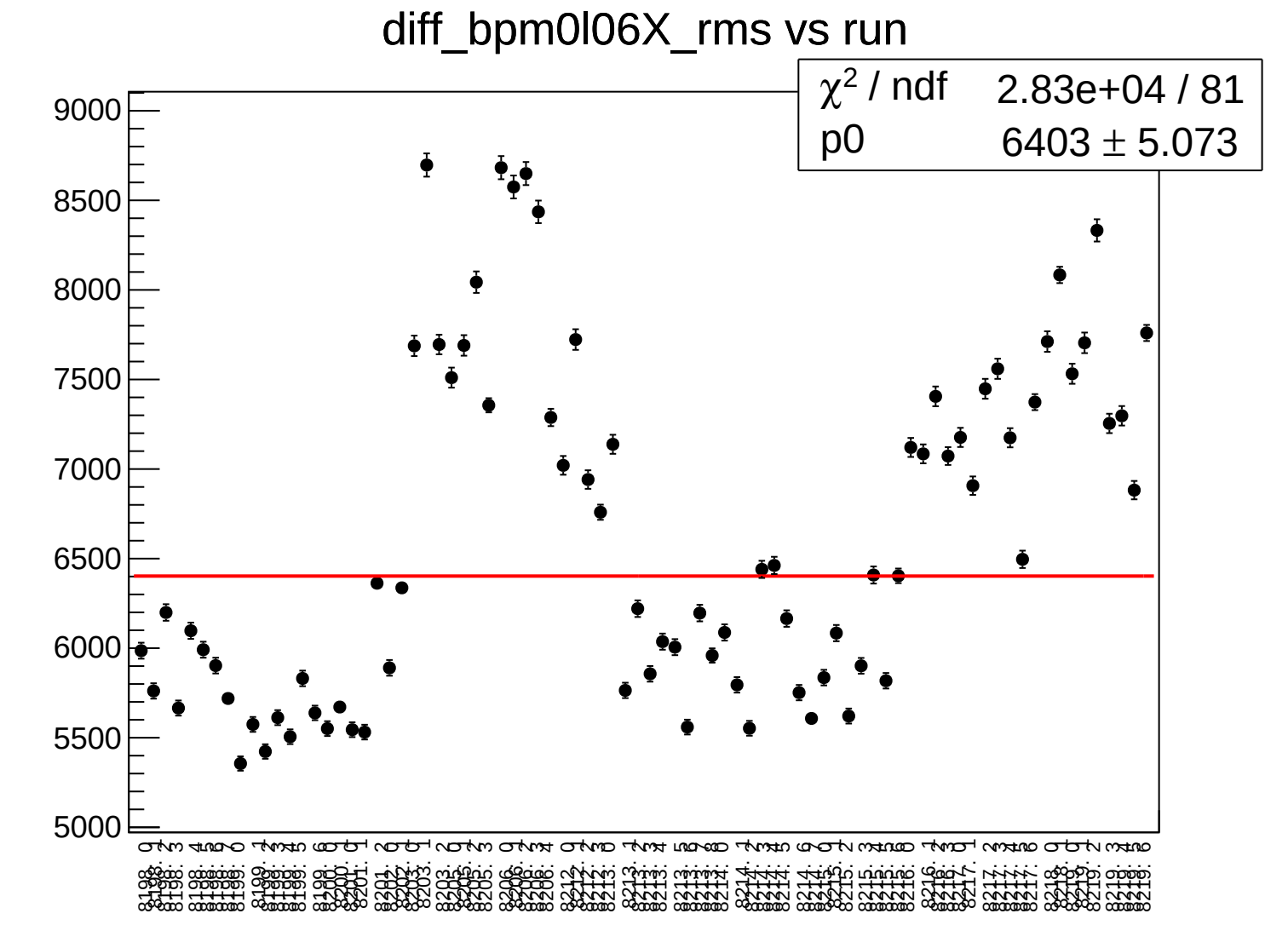

diff_bpm0l05Y_mean vs run
χ² / ndf 280.4 / 81
p0 12.58 ± 1.725
pull
Entries 82
Mean −601.9
Std Dev 0

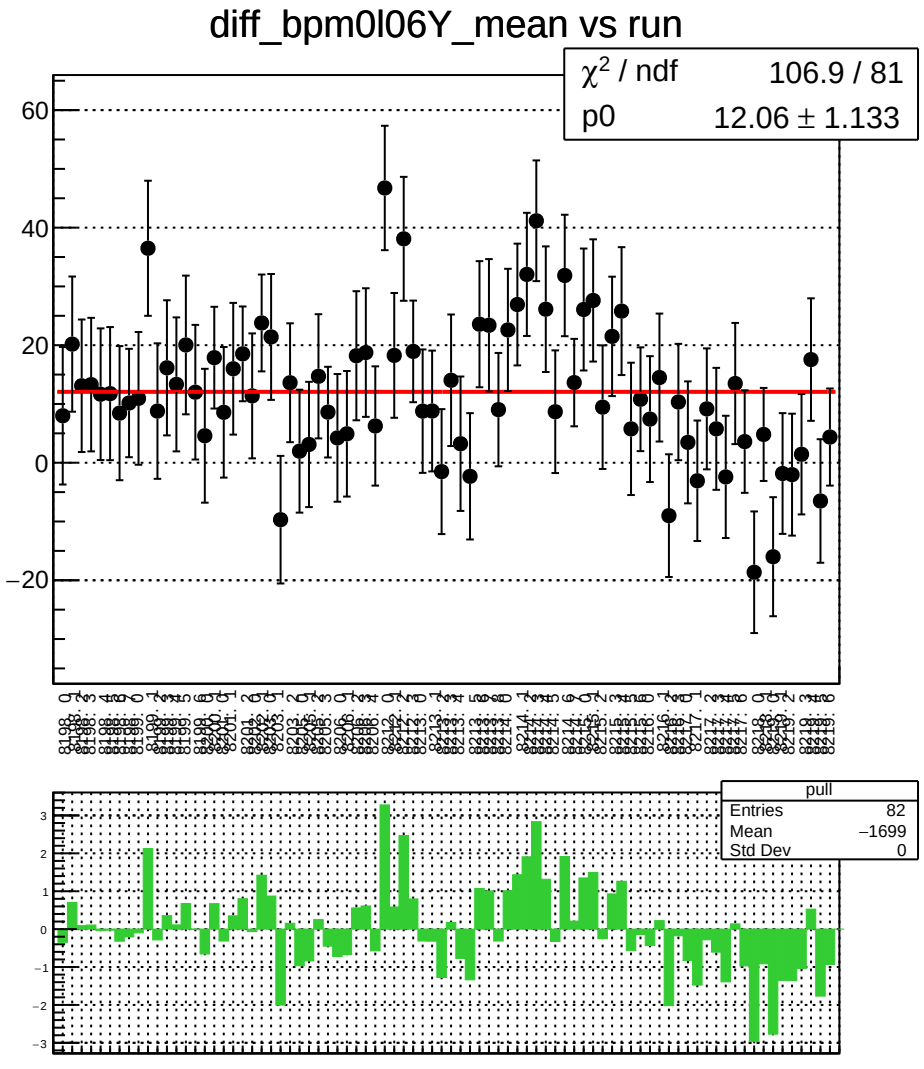

pull1D
Entries 82
Mean −0.04505
Std Dev 1.849

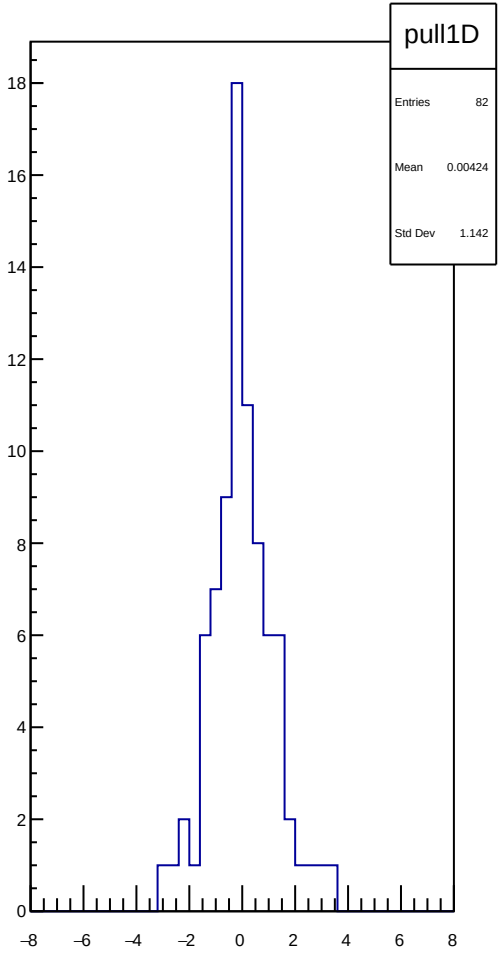

diff_bpm0l05Y_rms vs run
χ² / ndf 2839 / 81
p0 1552 ± 1.22
1750
1700
1650
1600
1550
1500
1450

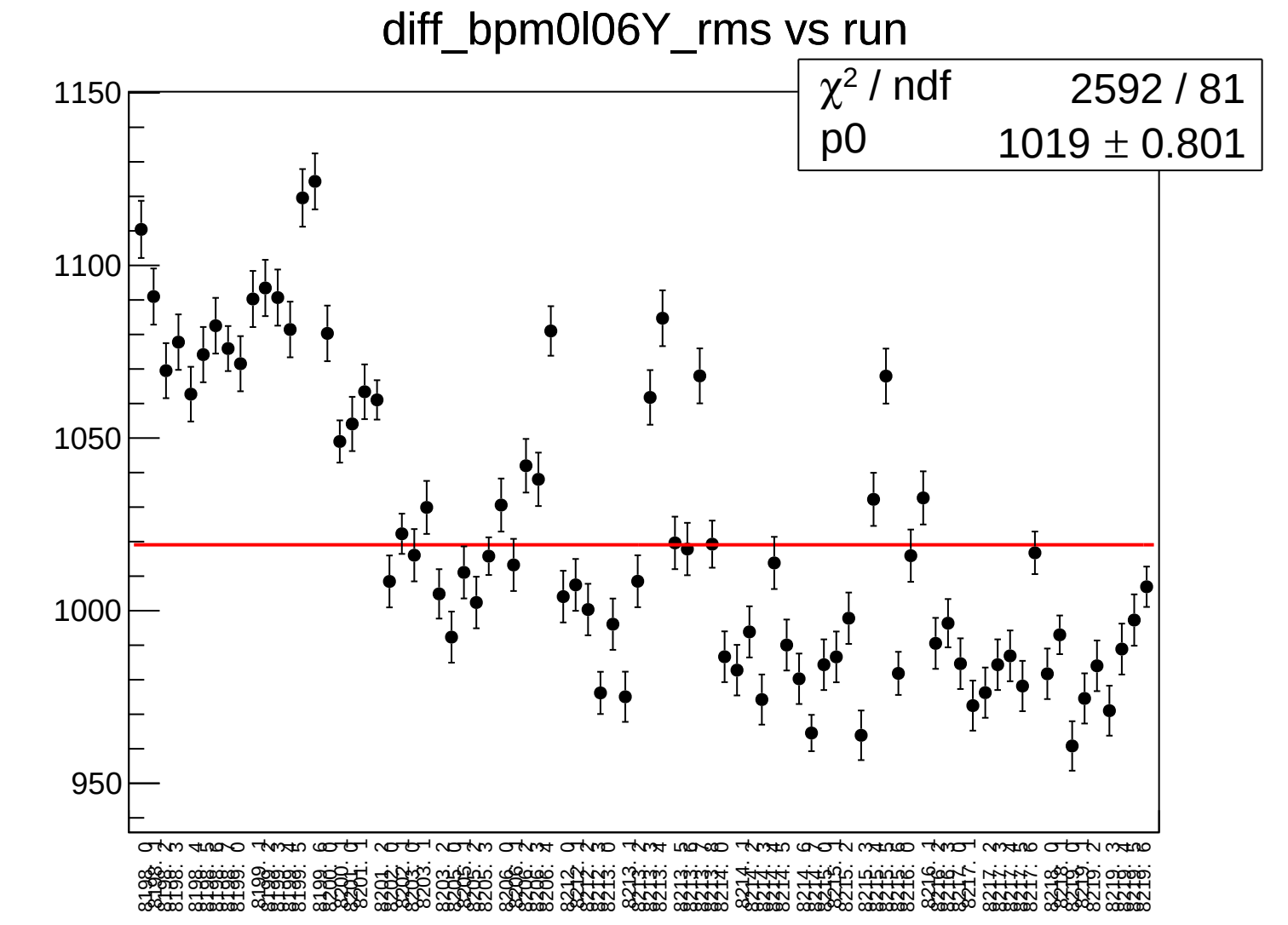

diff_bpm0l06X_mean vs run
χ² / ndf 93.91 / 81
p0 −35.67 ± 7.174
pull
Entries 82
Mean −867.7
Std Dev 0

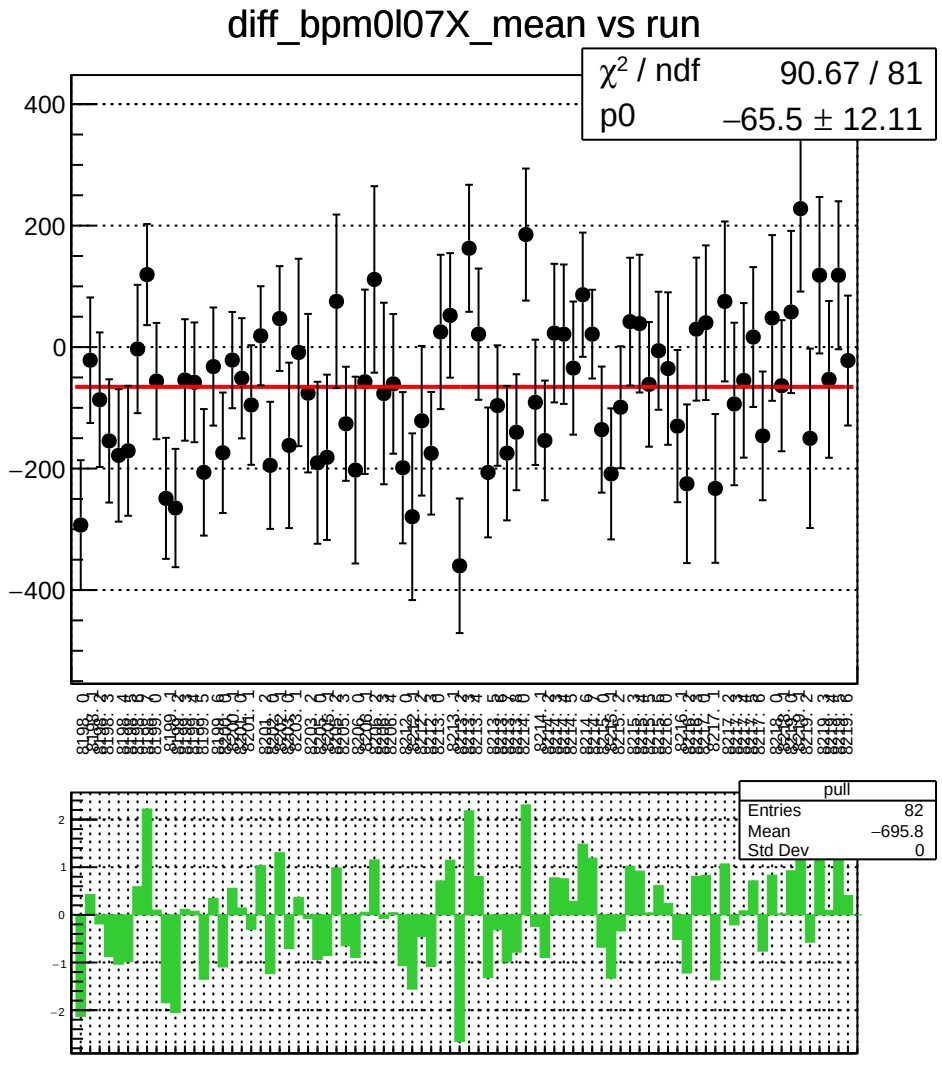

pull1D
Entries 82
Mean −0.008552
Std Dev 1.07

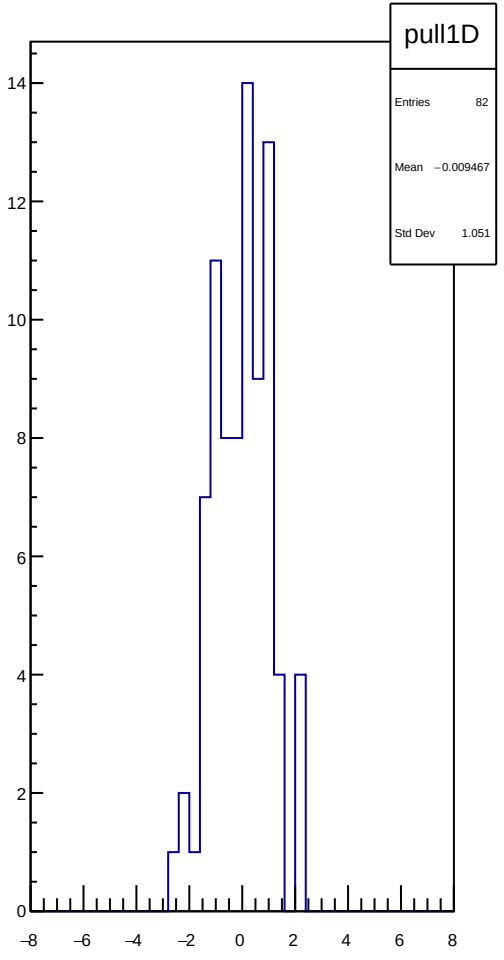

diff_bpm0l06X_rms vs run
$\chi^2$ / ndf 2.83e+04 / 81
p0 6403 ± 5.073
9000
8500
8000
7500
7000
6500
6000
5500
5000

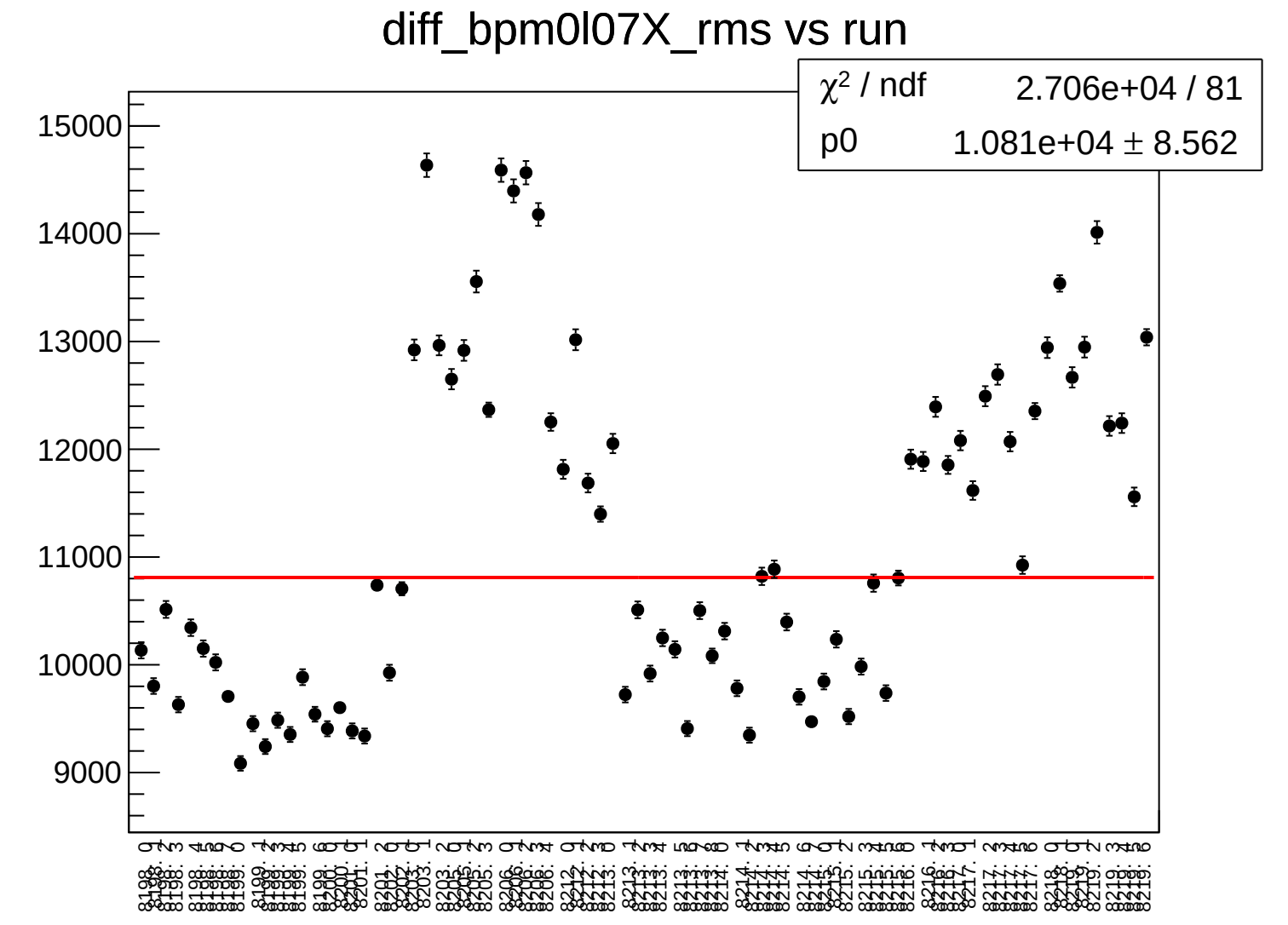

diff_bpm0l06Y_mean vs run
$\chi^2$ / ndf 106.9 / 81
p0 12.06 ± 1.133
pull
Entries 82
Mean −1699
Std Dev 0

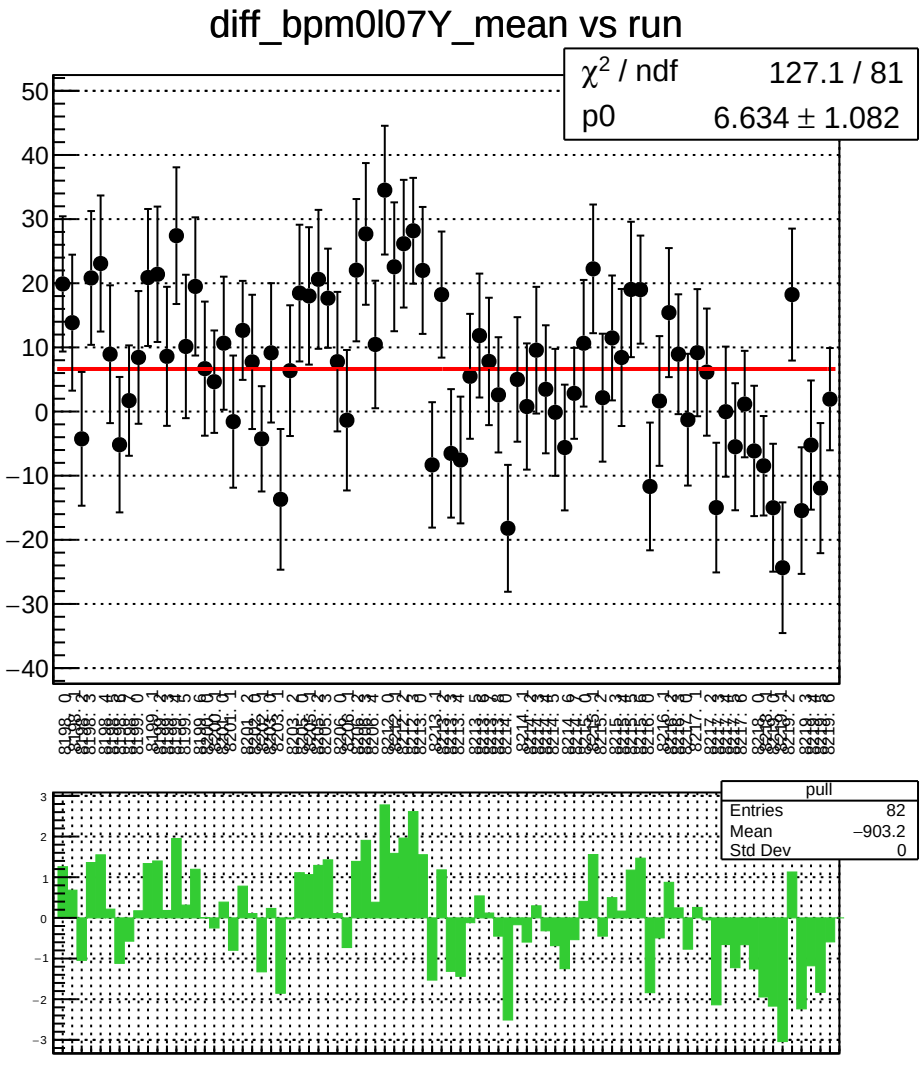

pull1D
Entries 82
Mean 0.00424
Std Dev 1.142

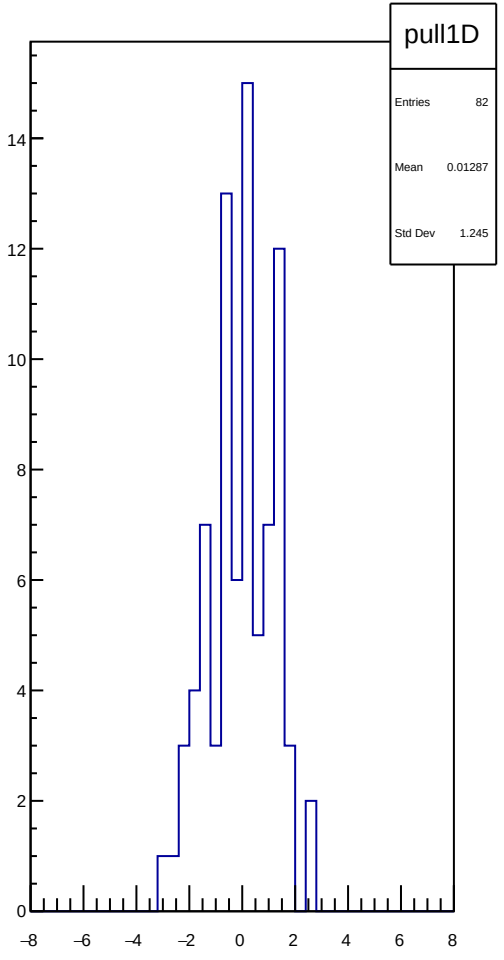

diff_bpm0l06Y_rms vs run
χ² / ndf 2592 / 81
p0 1019 ± 0.801
1150
1100
1050
1000
950

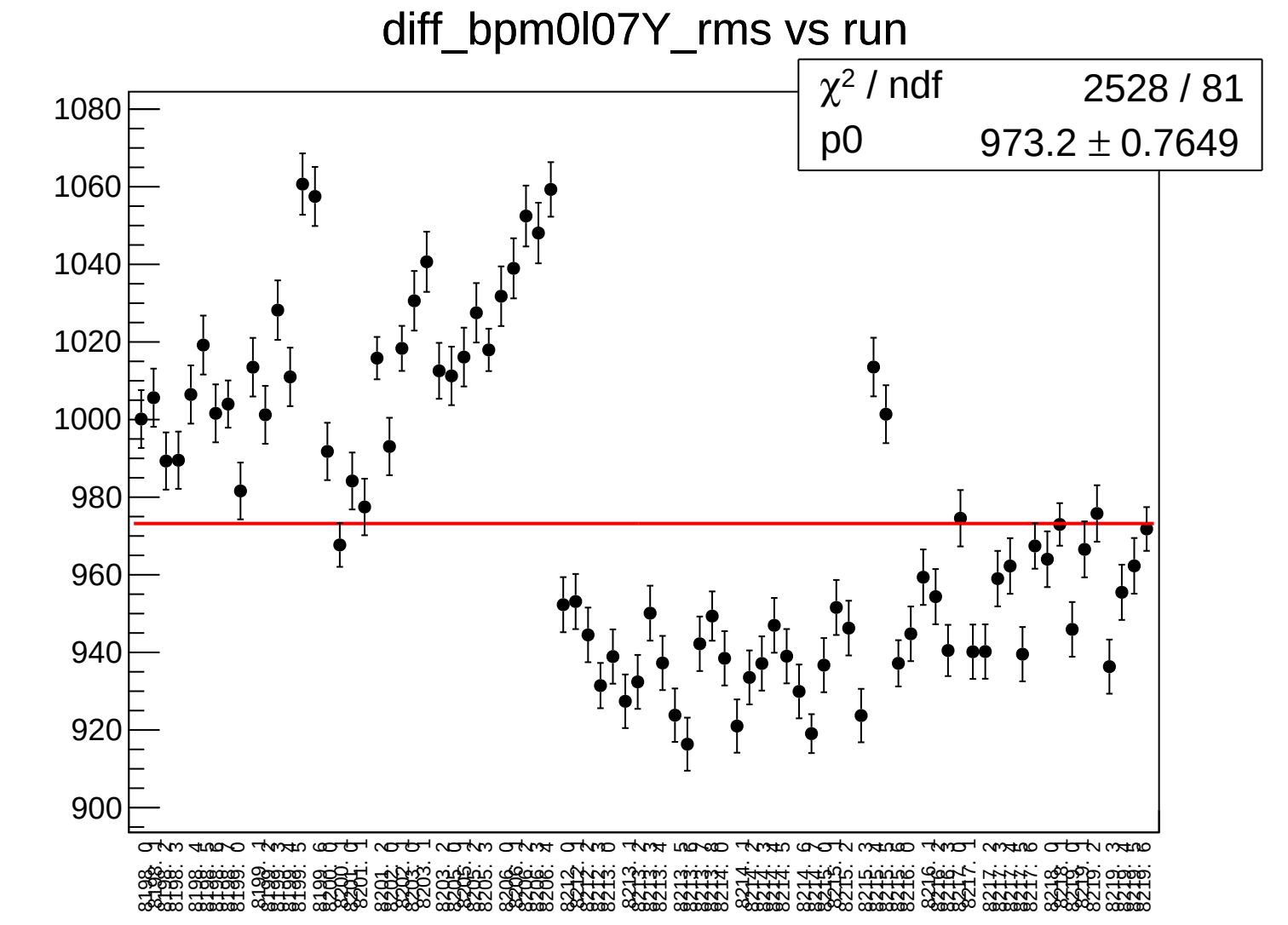

diff_bpm0l07X_mean vs run
χ² / ndf 90.67 / 81
p0 −65.5 ± 12.11
400
200
0
−200
−400
pull
Entries 82
Mean −695.8
Std Dev 0
2
1
0
−1
−2

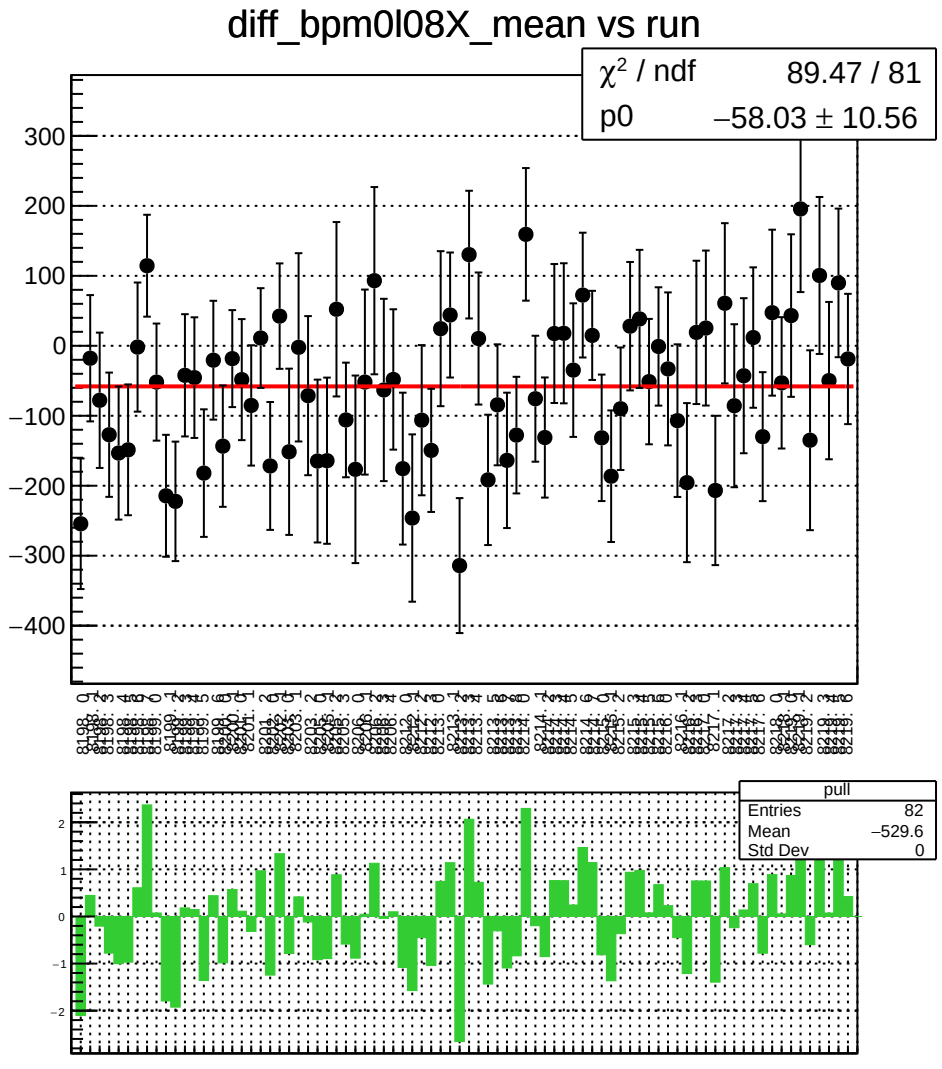

pull1D
Entries 82
Mean −0.009467
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

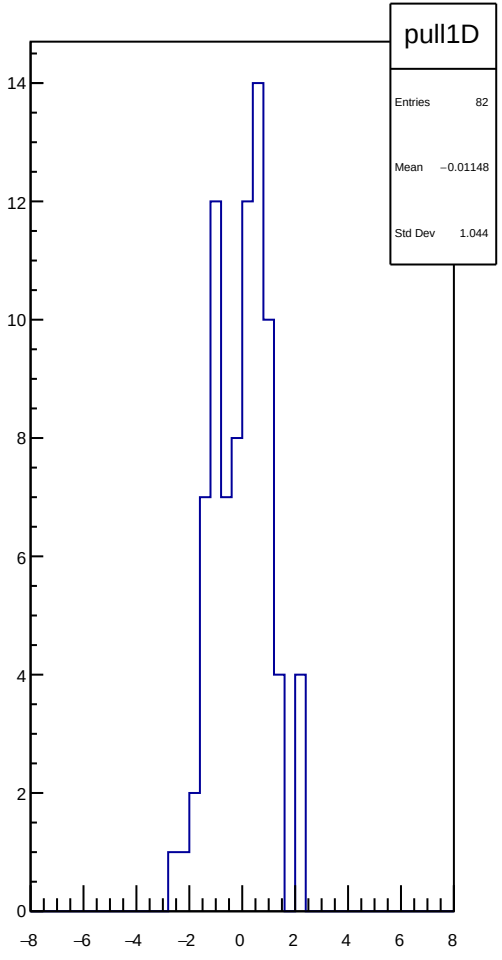

diff_bpm0l07X_rms vs run
χ² / ndf 2.706e+04 / 81
p0 1.081e+04 ± 8.562
15000
14000
13000
12000
11000
10000
9000

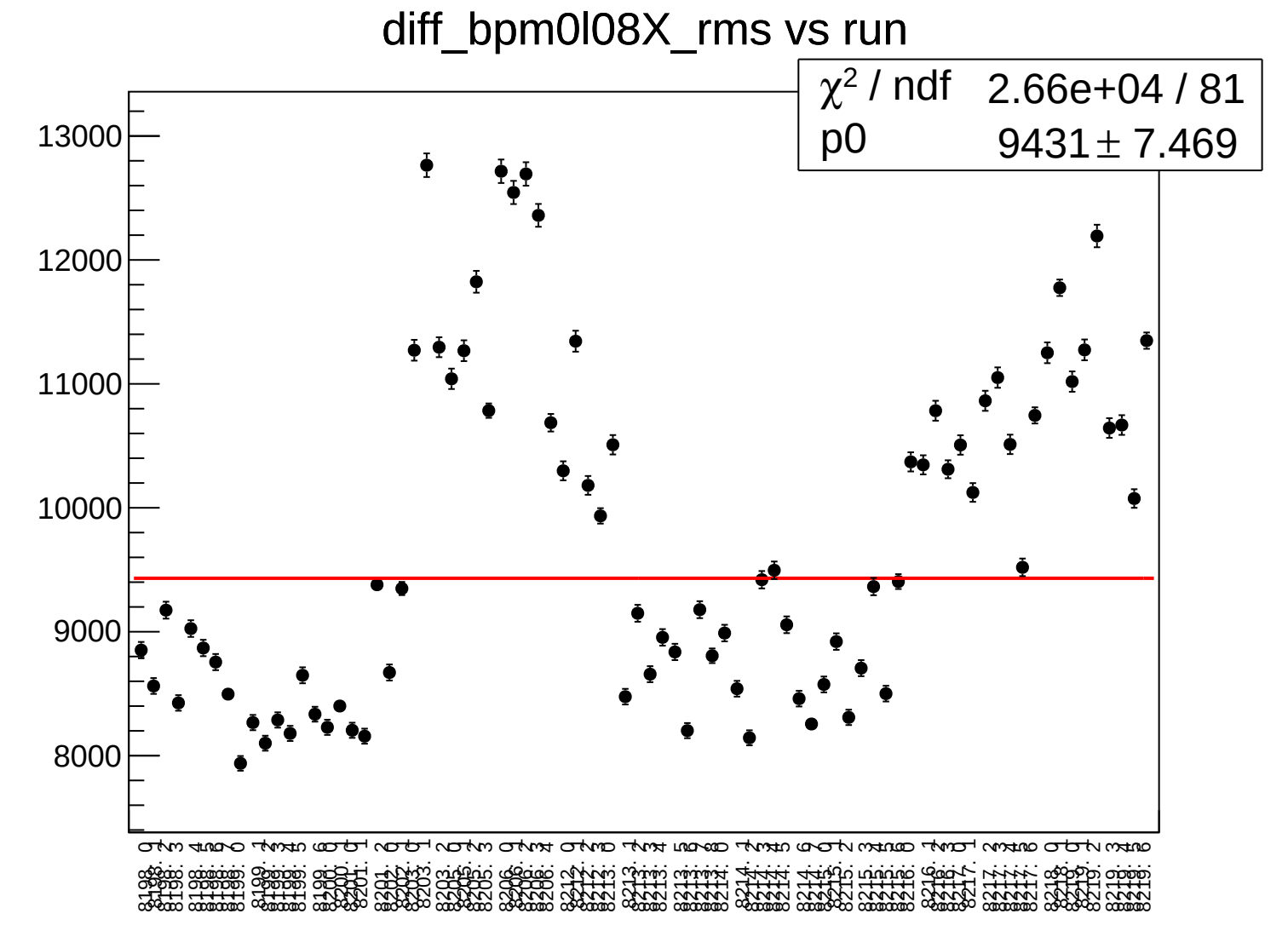

diff_bpm0l07Y_mean vs run
$\chi^2$ / ndf 127.1 / 81
p0 6.634 ± 1.082
pull
Entries 82
Mean −903.2
Std Dev 0

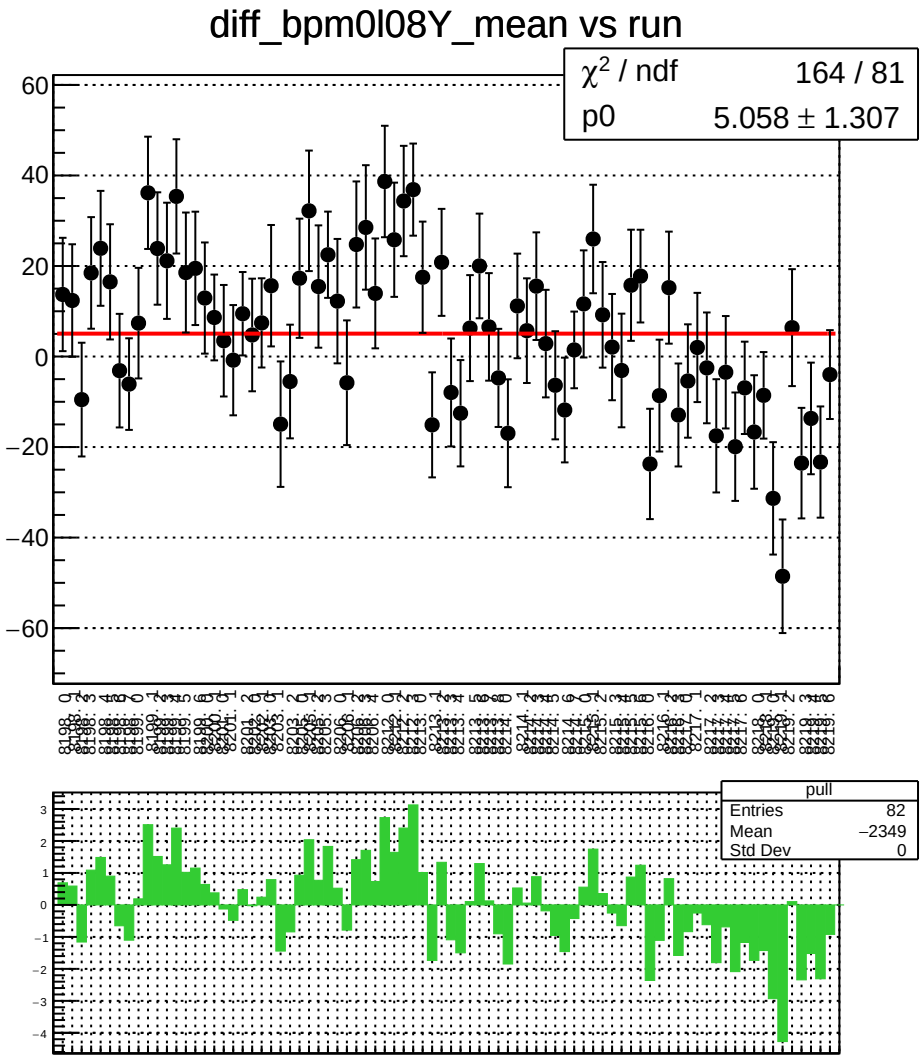

pull1D
Entries 82
Mean 0.01287
Std Dev 1.245

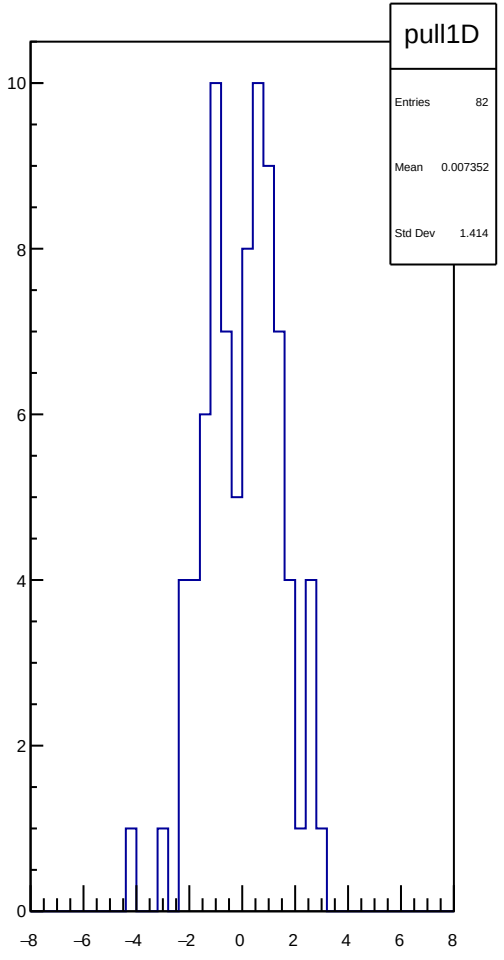

diff_bpm0l07Y_rms vs run
χ² / ndf 2528 / 81
p0 973.2 ± 0.7649
1080
1060
1040
1020
1000
980
960
940
920
900

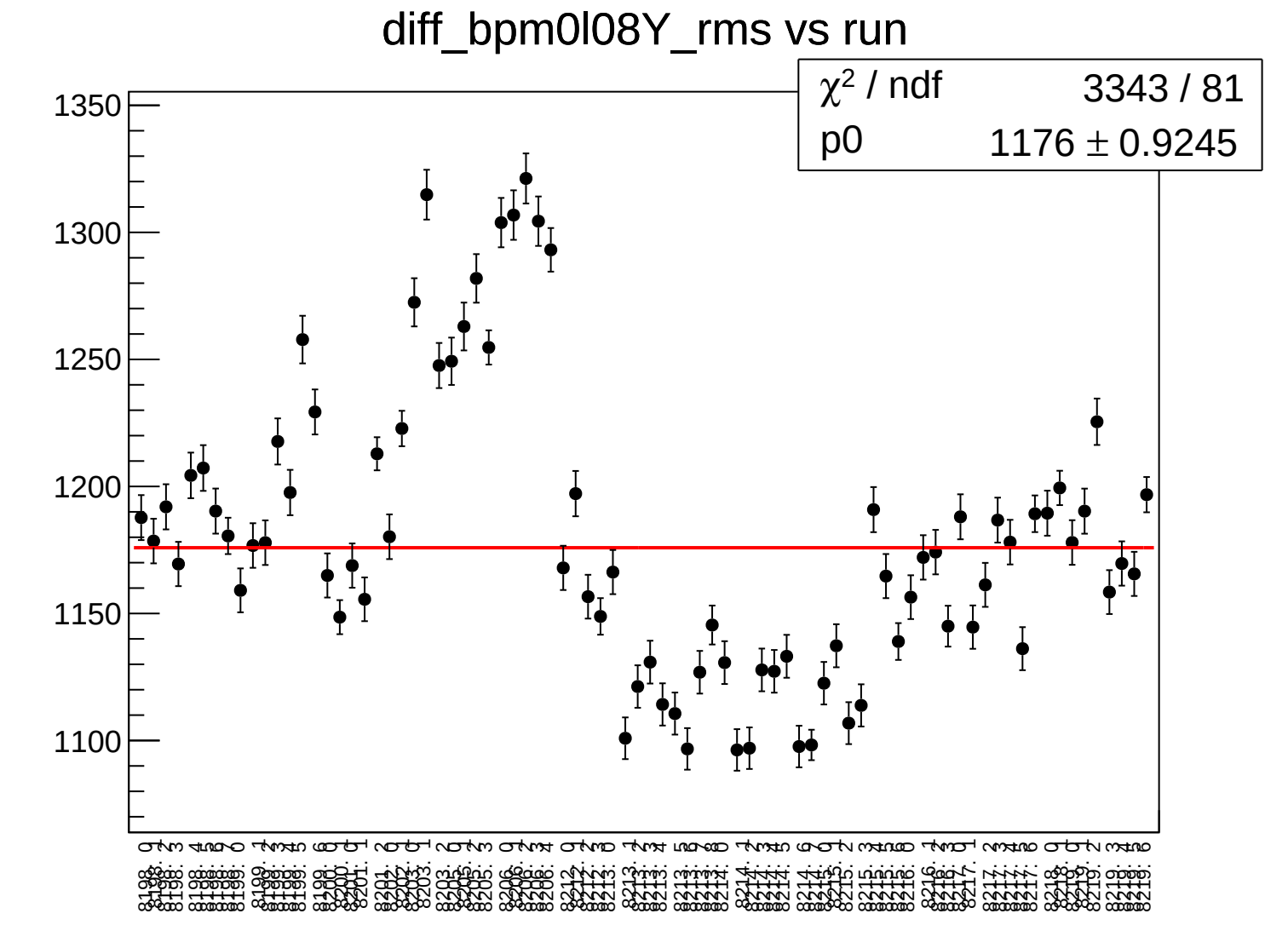

diff_bpm0l08X_mean vs run
χ² / ndf 89.47 / 81
p0 −58.03 ± 10.56
pull
Entries 82
Mean −529.6
Std Dev 0

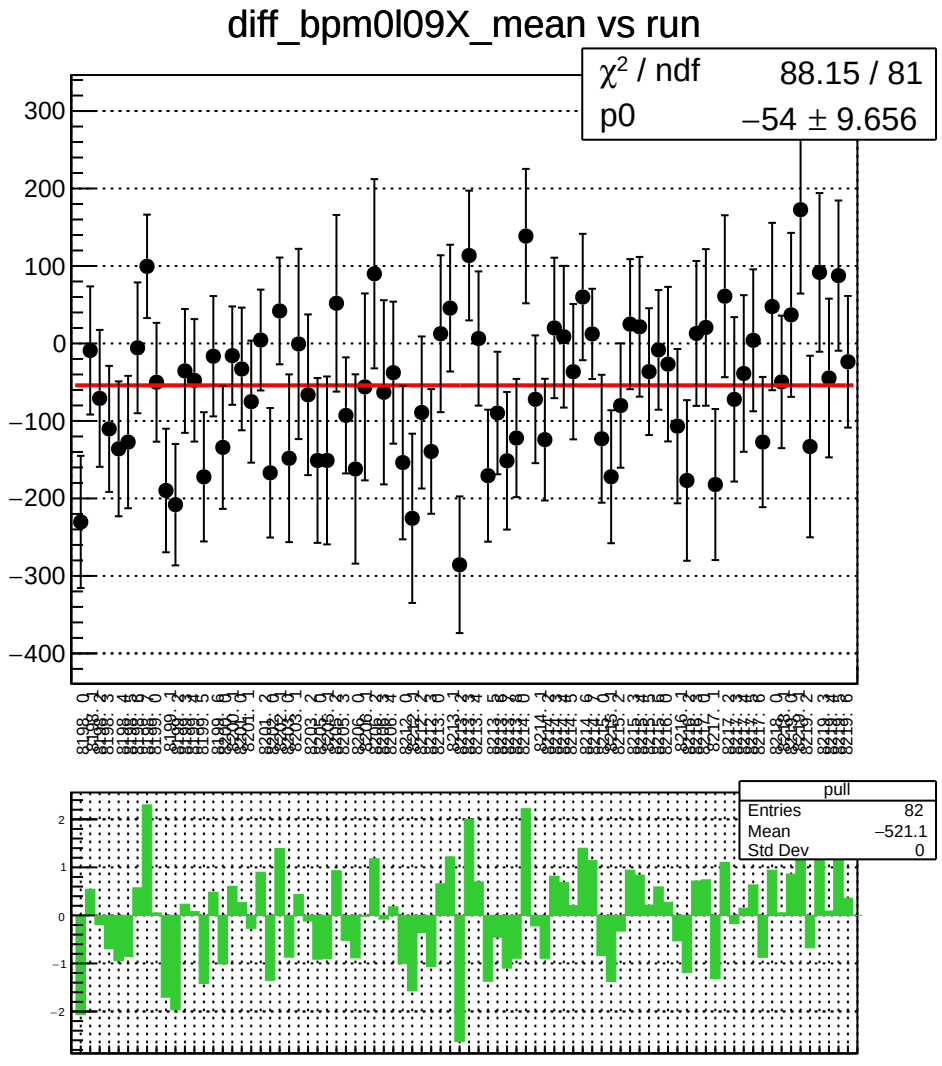

pull1D
Entries 82
Mean −0.01148
Std Dev 1.044

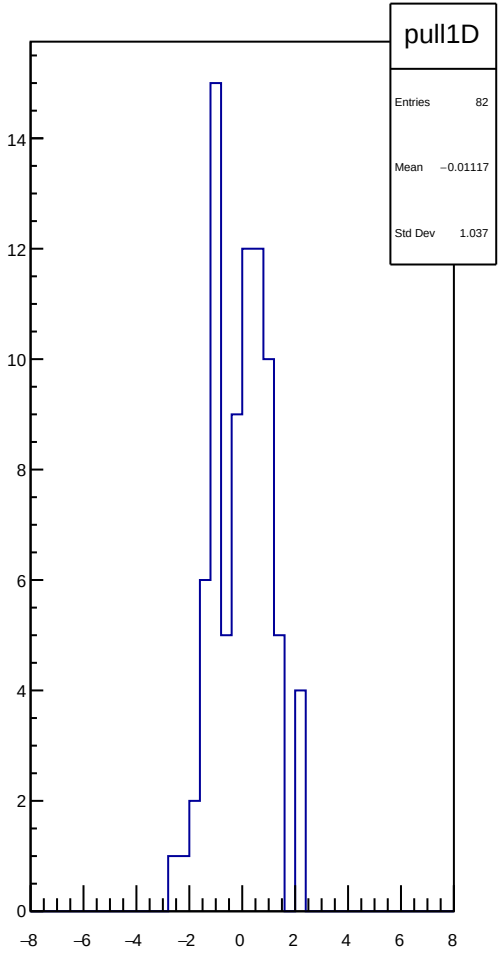

diff_bpm0l08X_rms vs run
χ² / ndf 2.66e+04 / 81
p0 9431 ± 7.469
13000
12000
11000
10000
9000
8000

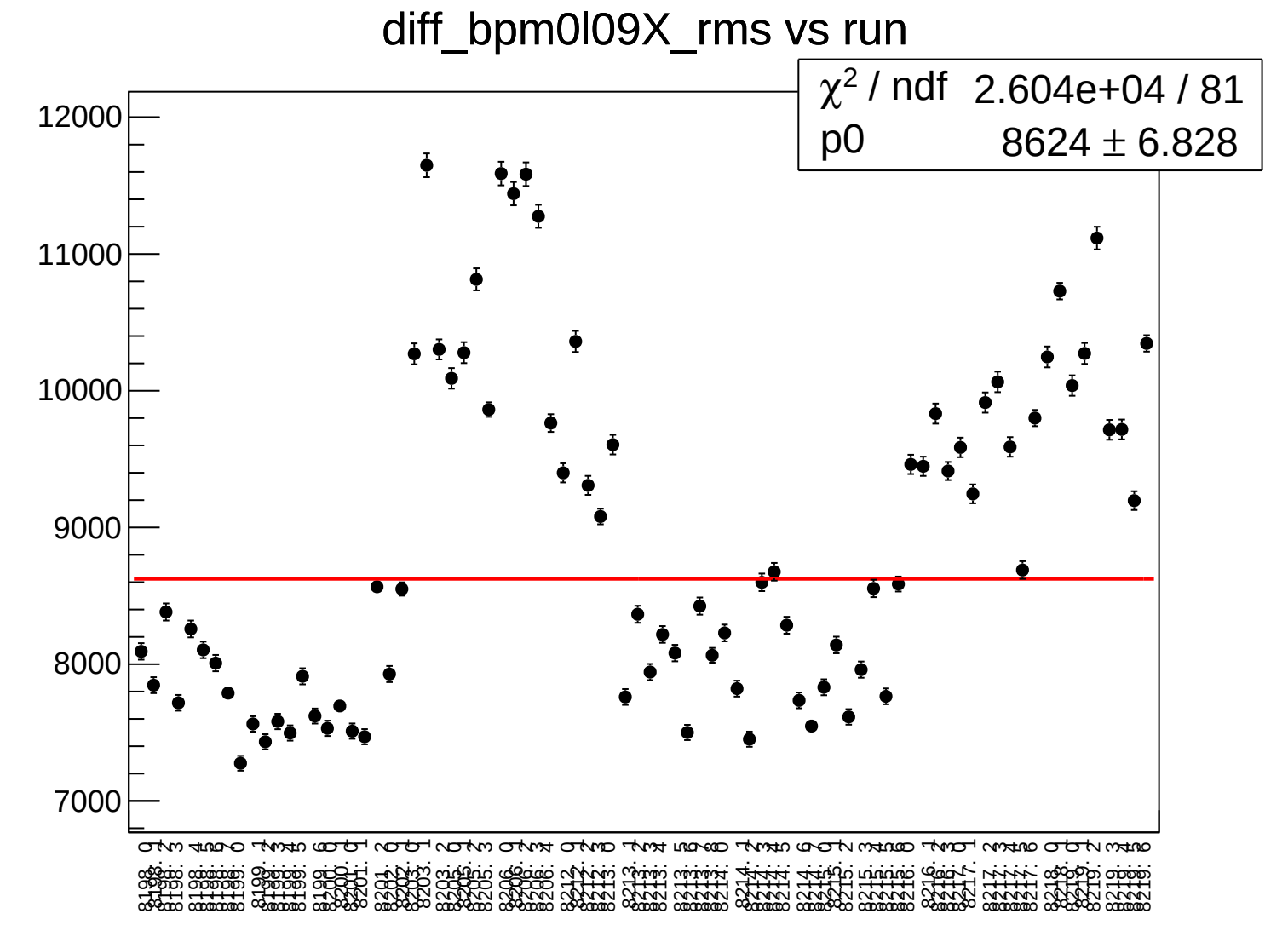

diff_bpm0l08Y_mean vs run
χ² / ndf 164 / 81
p0 5.058 ± 1.307
pull
Entries 82
Mean −2349
Std Dev 0

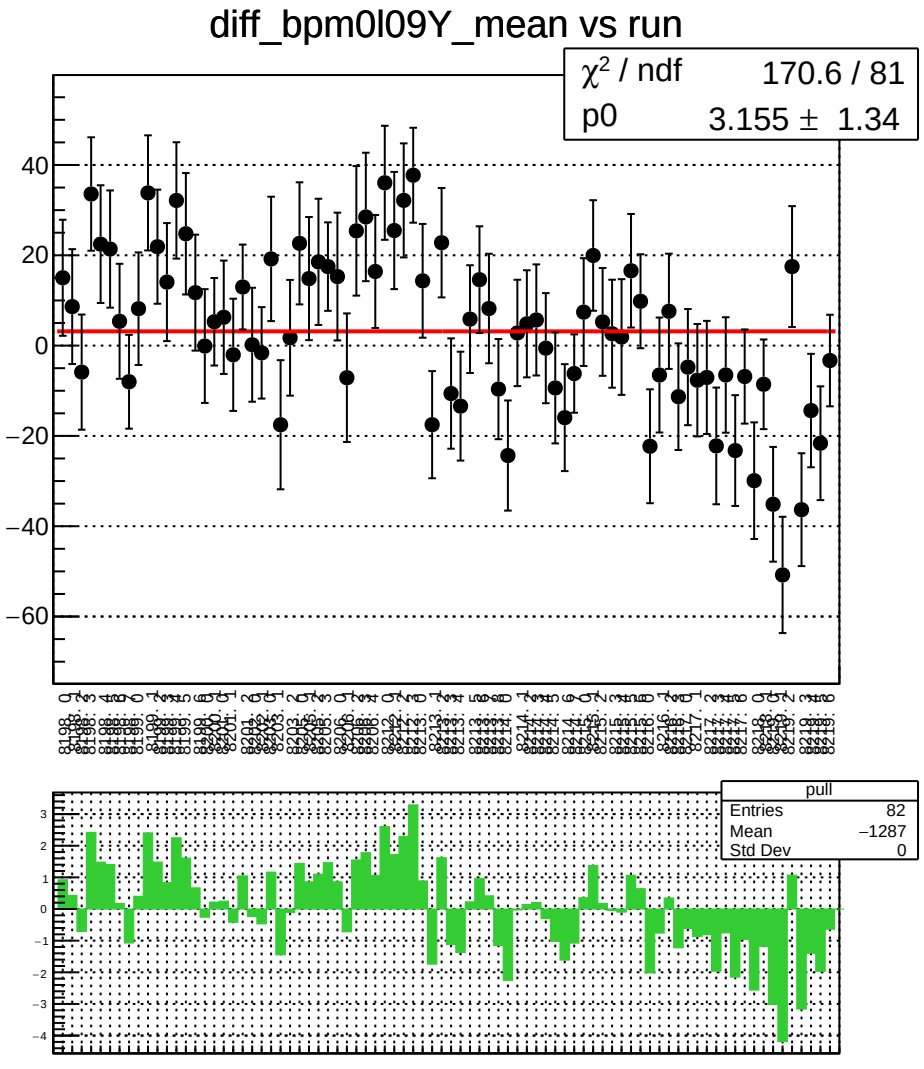

pull1D
Entries 82
Mean 0.007352
Std Dev 1.414

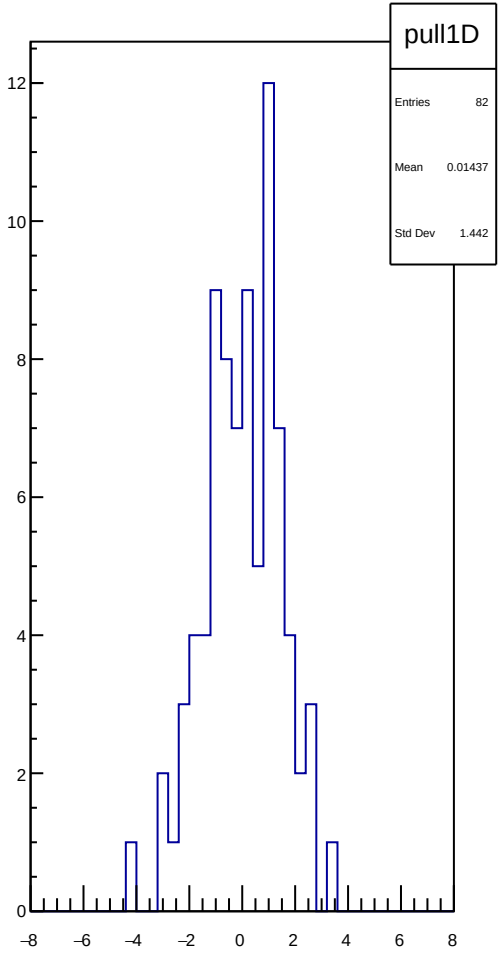

diff_bpm0l08Y_rms vs run
χ² / ndf 3343 / 81
p0 1176 ± 0.9245
1350
1300
1250
1200
1150
1100

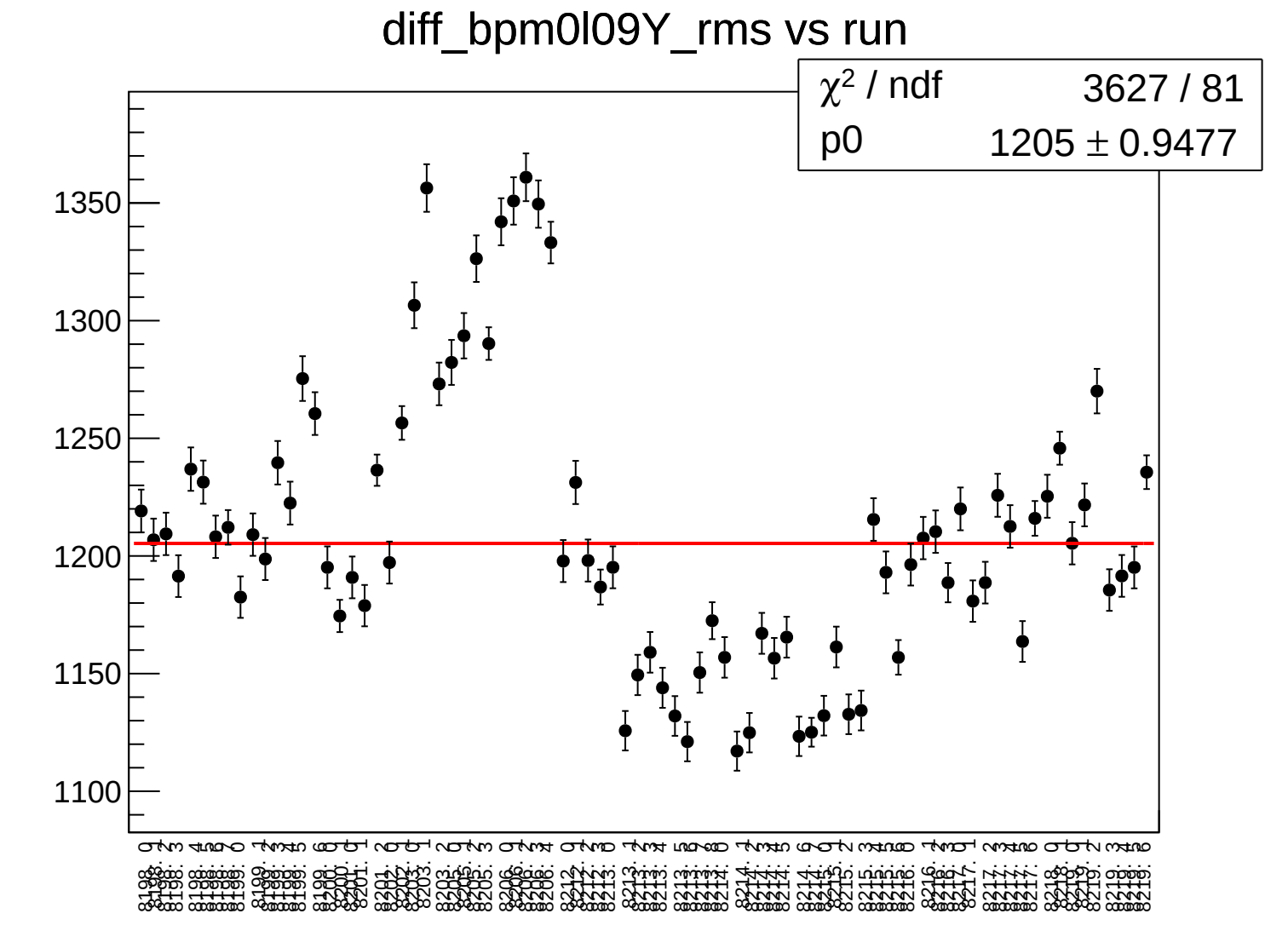

diff_bpm0l09X_mean vs run
χ² / ndf 88.15 / 81
p0 −54 ± 9.656
pull
Entries 82
Mean −521.1
Std Dev 0

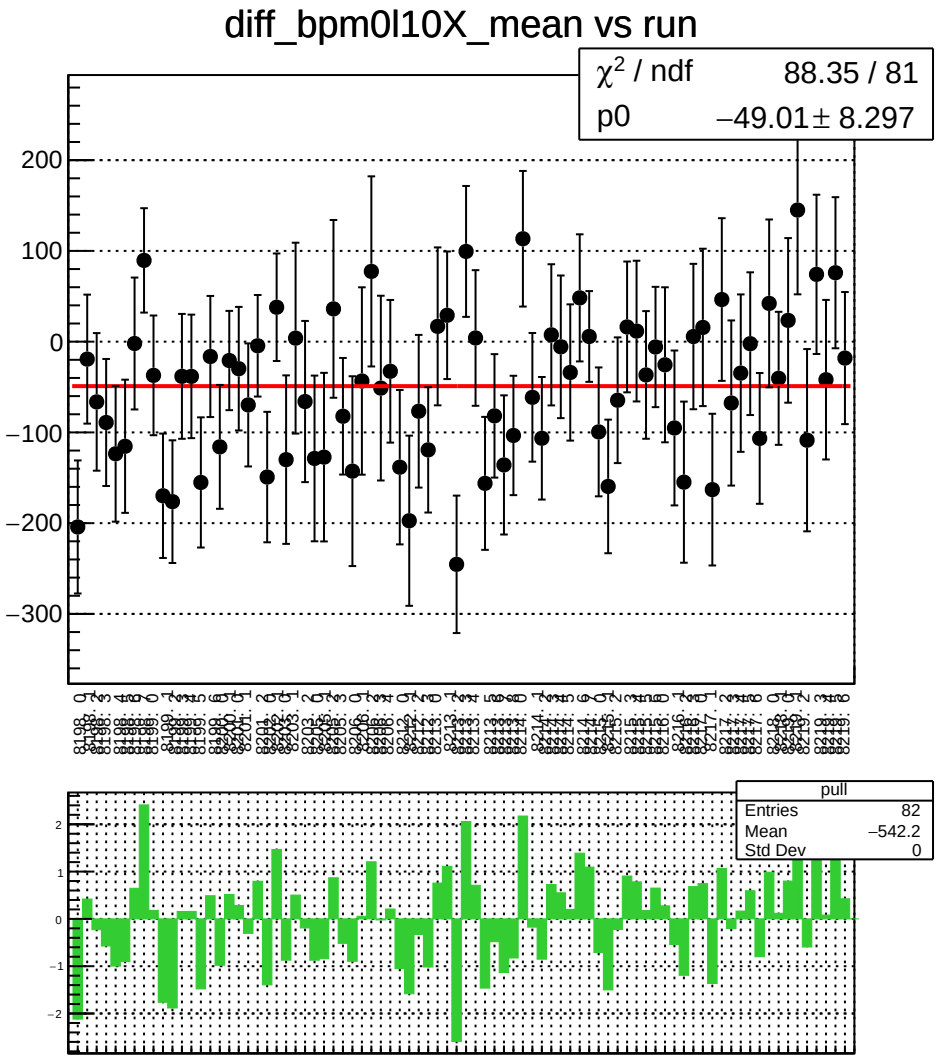

pull1D
Entries 82
Mean −0.01117
Std Dev 1.037

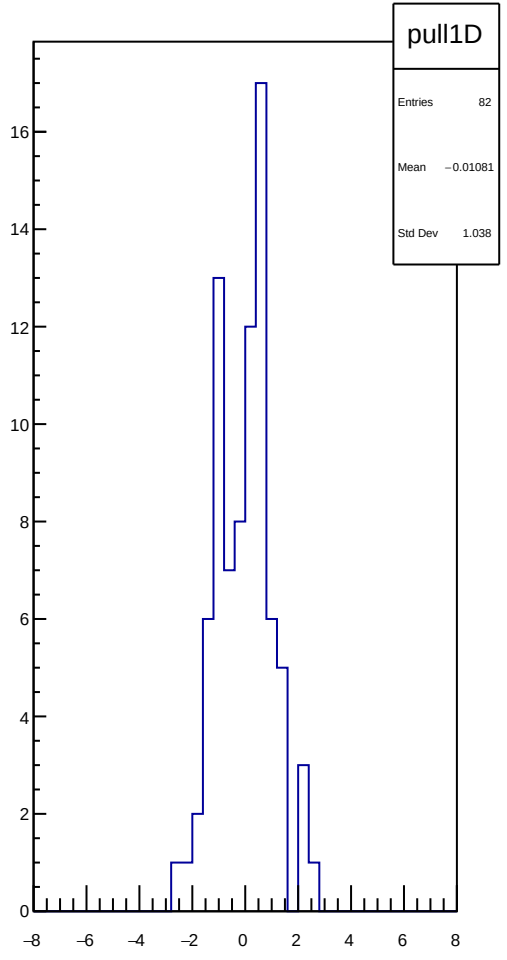

diff_bpm0l09X_rms vs run
χ² / ndf 2.604e+04 / 81
p0 8624 ± 6.828
12000
11000
10000
9000
8000
7000

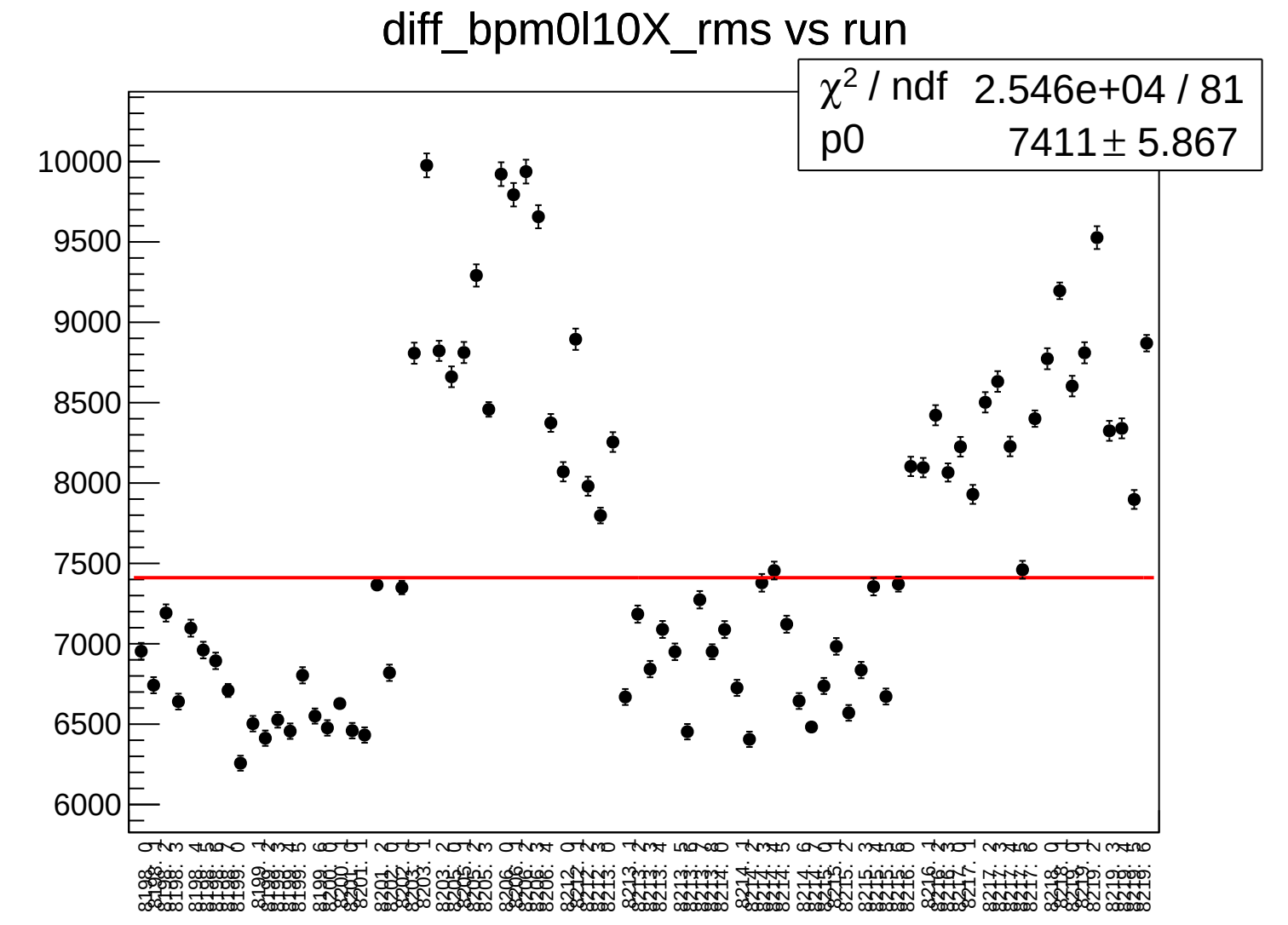

diff_bpm0l09Y_mean vs run
χ² / ndf 170.6 / 81
p0 3.155 ± 1.34
pull
Entries 82
Mean −1287
Std Dev 0

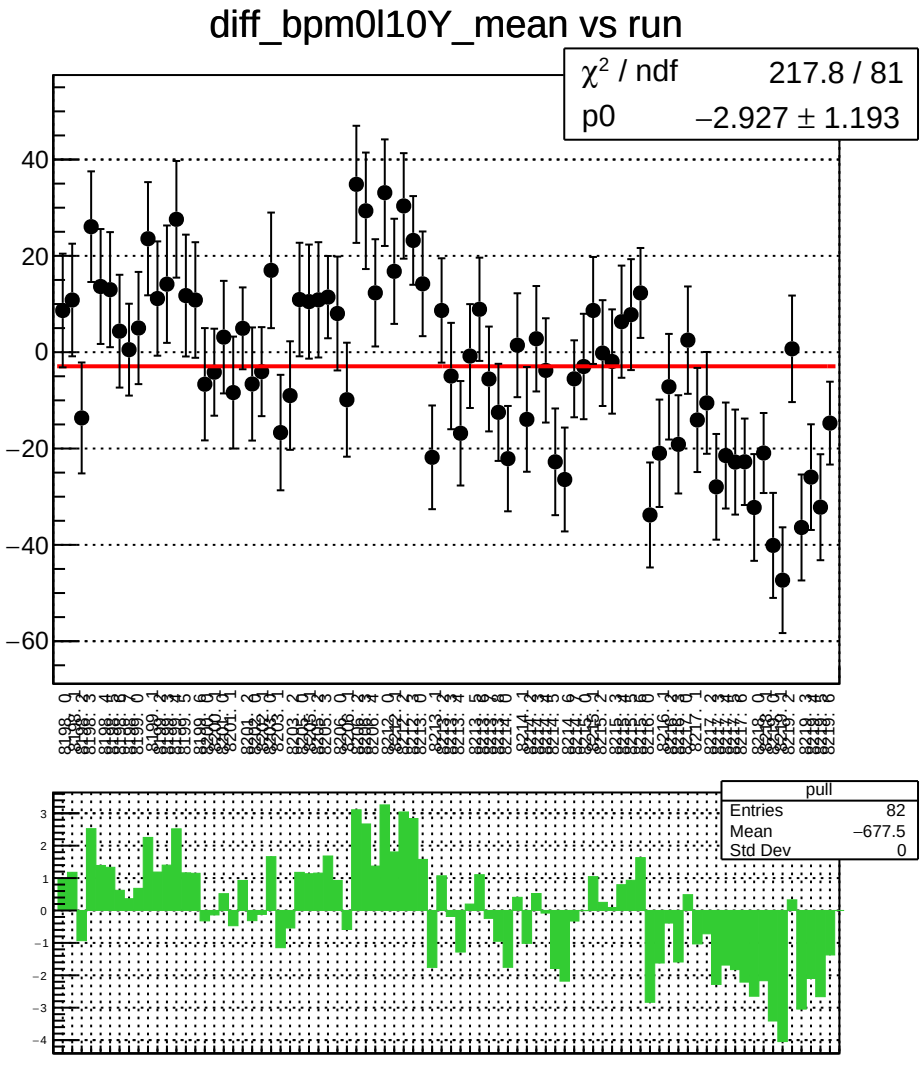

pull1D
Entries 82
Mean 0.01437
Std Dev 1.442

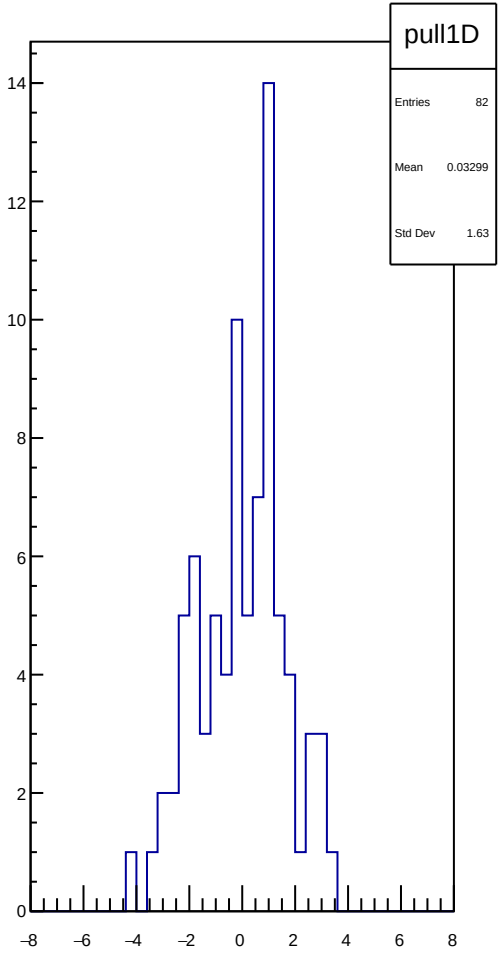

diff_bpm0l09Y_rms vs run
χ² / ndf 3627 / 81
p0 1205 ± 0.9477
1350
1300
1250
1200
1150
1100

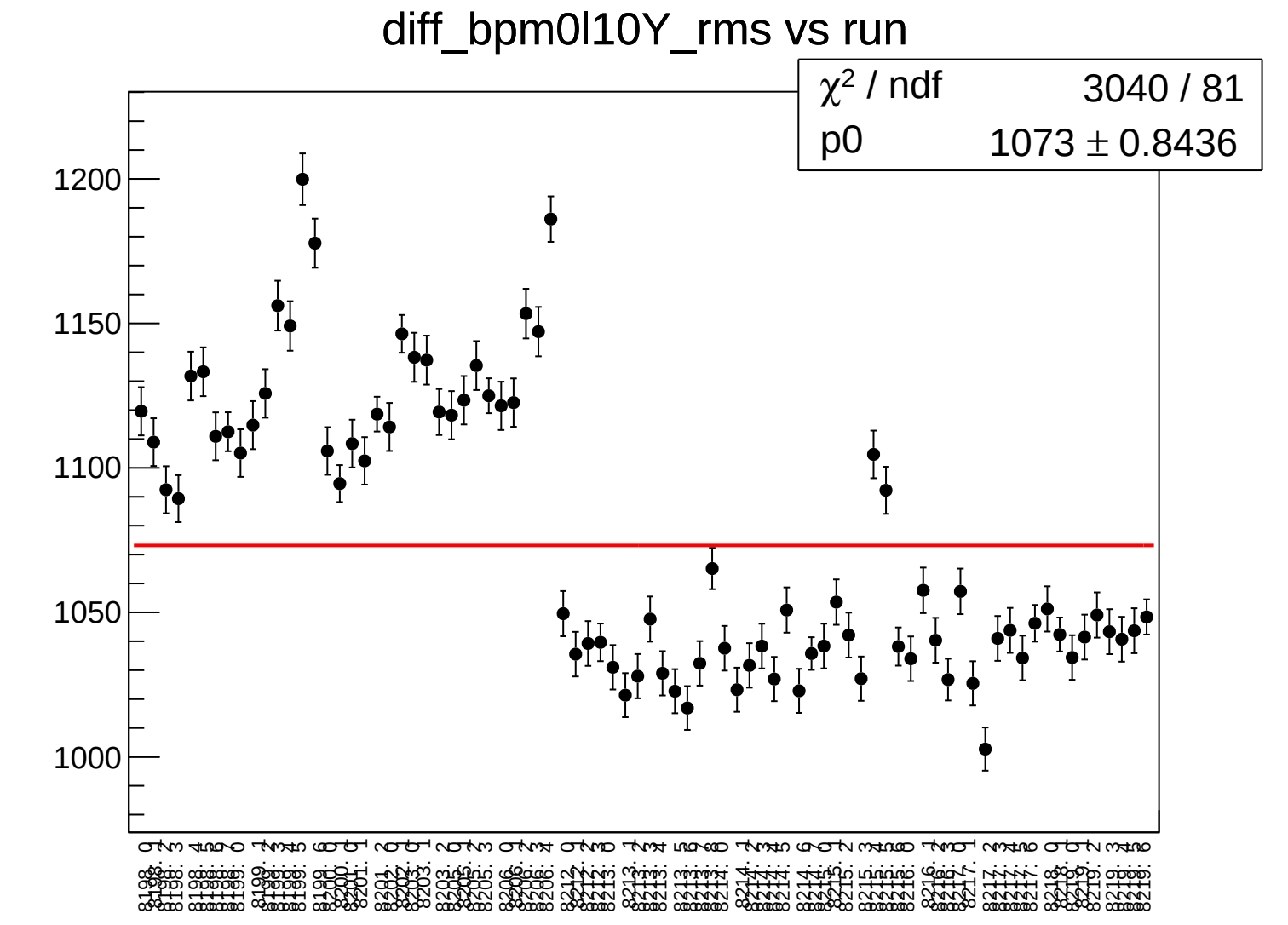

diff_bpm0l10X_mean vs run
χ² / ndf 88.35 / 81
p0 −49.01 ± 8.297
200
100
0
−100
−200
−300
pull
Entries 82
Mean −542.2
Std Dev 0
2
1
0
−1
−2

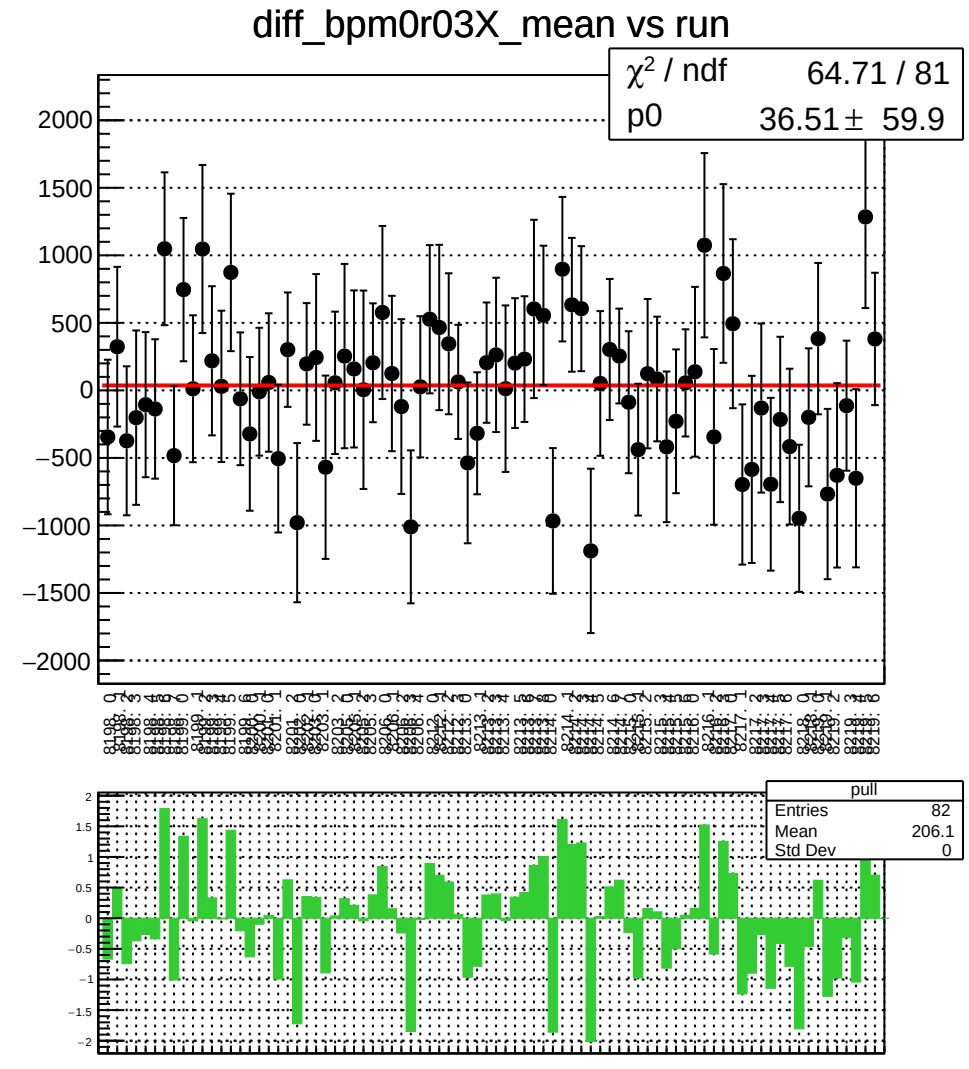

pull1D
Entries 82
Mean −0.01081
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

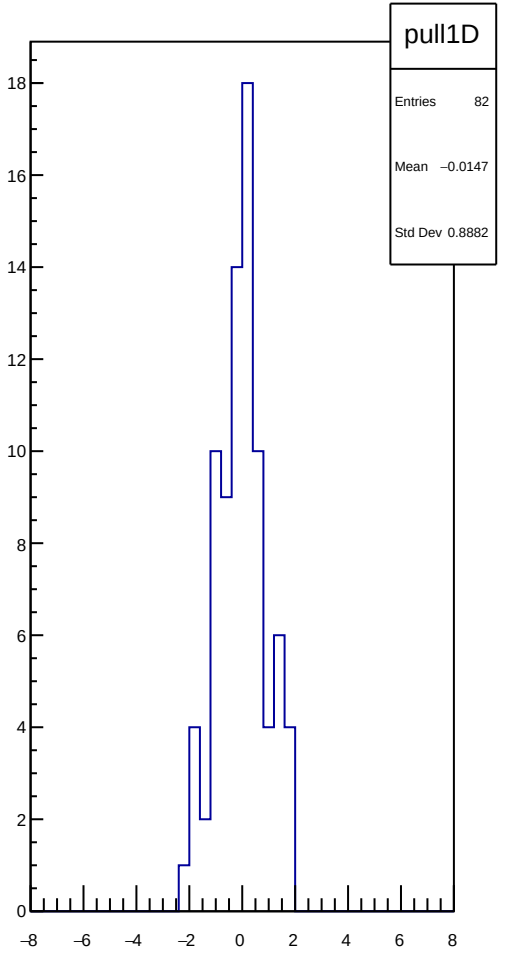

diff_bpm0l10X_rms vs run
χ² / ndf 2.546e+04 / 81
p0 7411 ± 5.867
10000
9500
9000
8500
8000
7500
7000
6500
6000

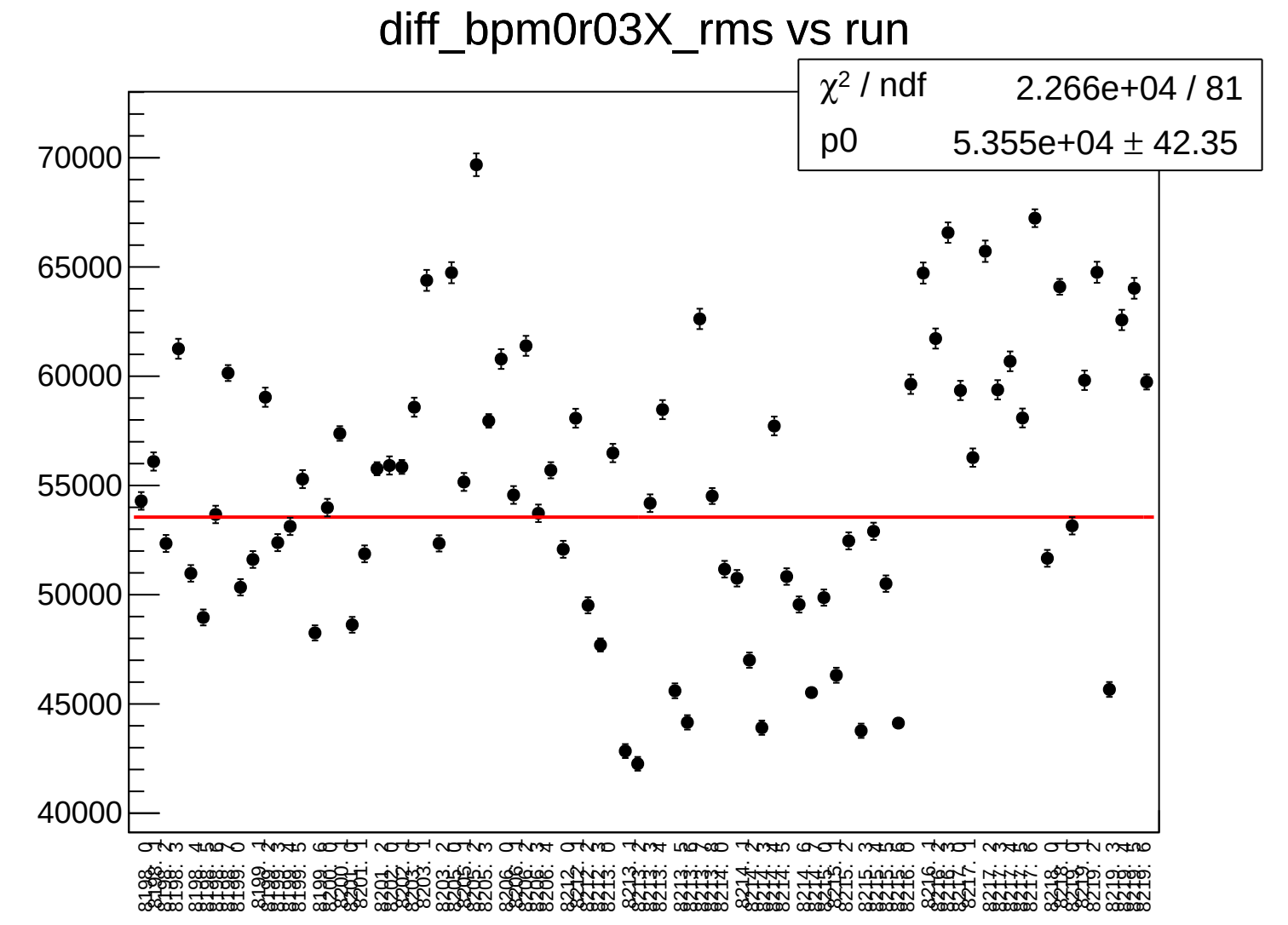

diff_bpm0l10Y_mean vs run
χ² / ndf 217.8 / 81
p0 −2.927 ± 1.193
pull
Entries 82
Mean −677.5
Std Dev 0

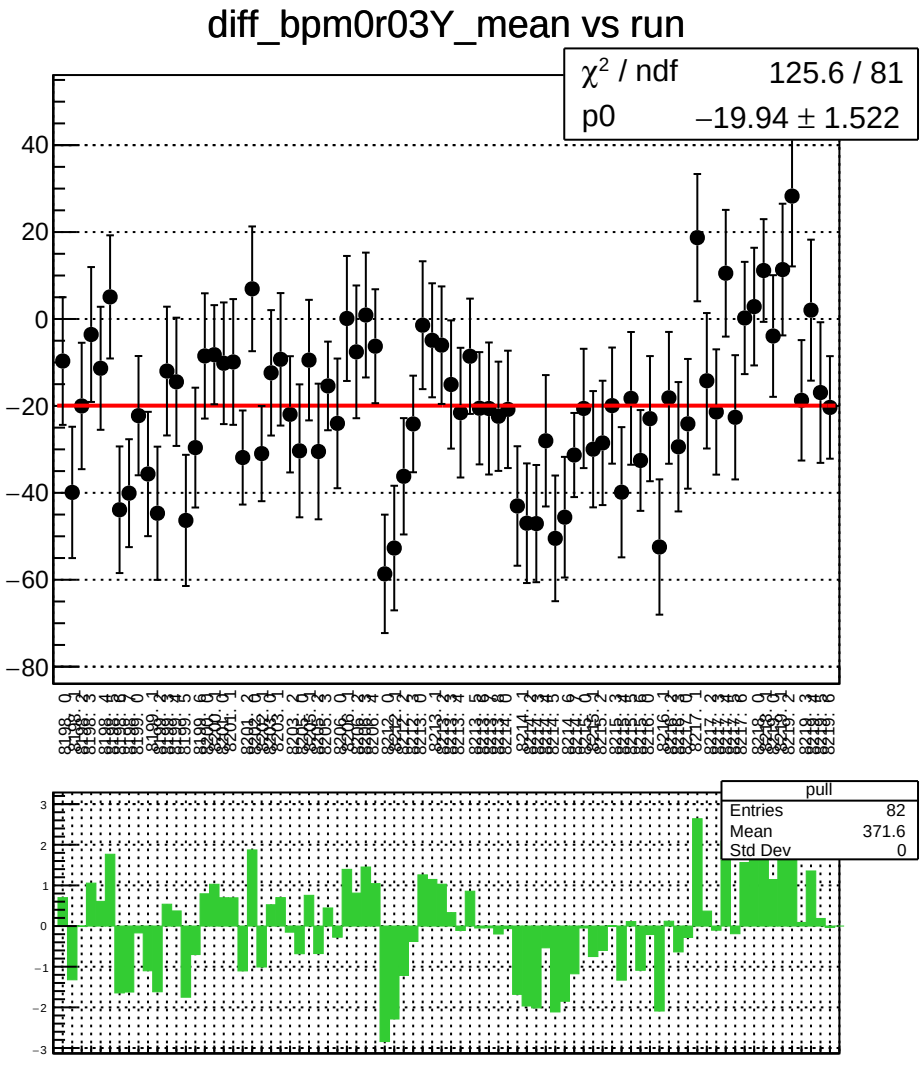

pull1D
Entries 82
Mean 0.03299
Std Dev 1.63

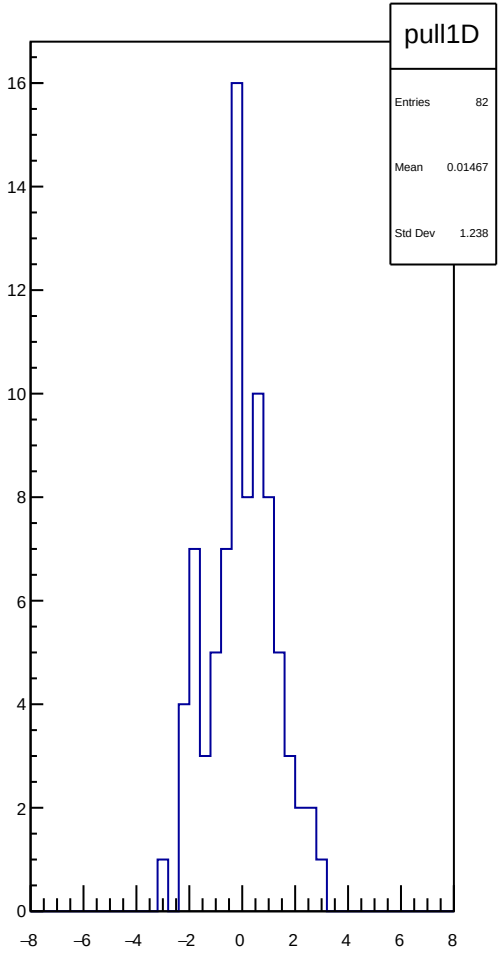

diff_bpm0l10Y_rms vs run
χ² / ndf 3040 / 81
p0 1073 ± 0.8436
1200
1150
1100
1050
1000

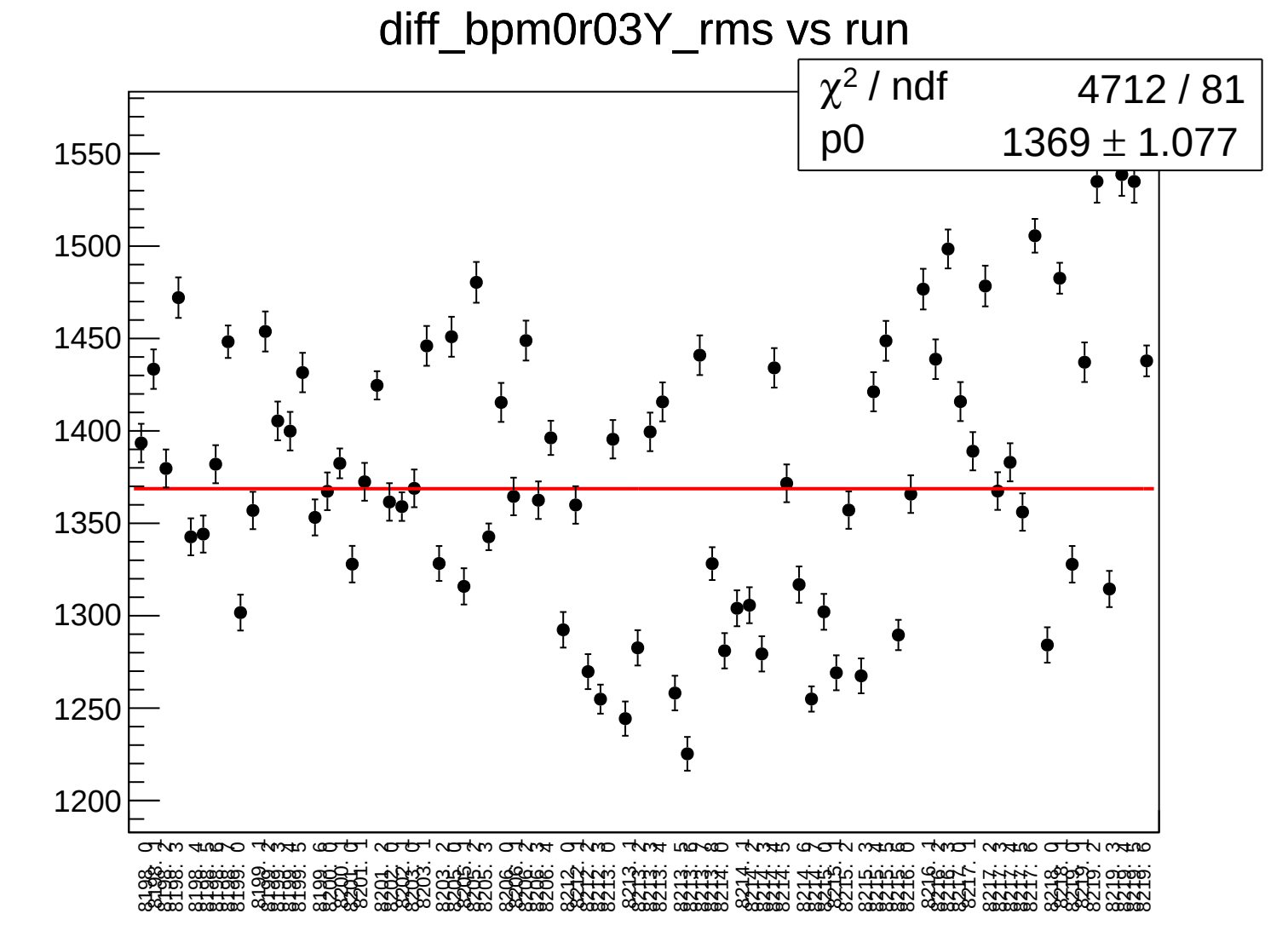

diff_bpm0r03X_mean vs run
χ² / ndf 64.71 / 81
p0 36.51 ± 59.9
pull
Entries 82
Mean 206.1
Std Dev 0

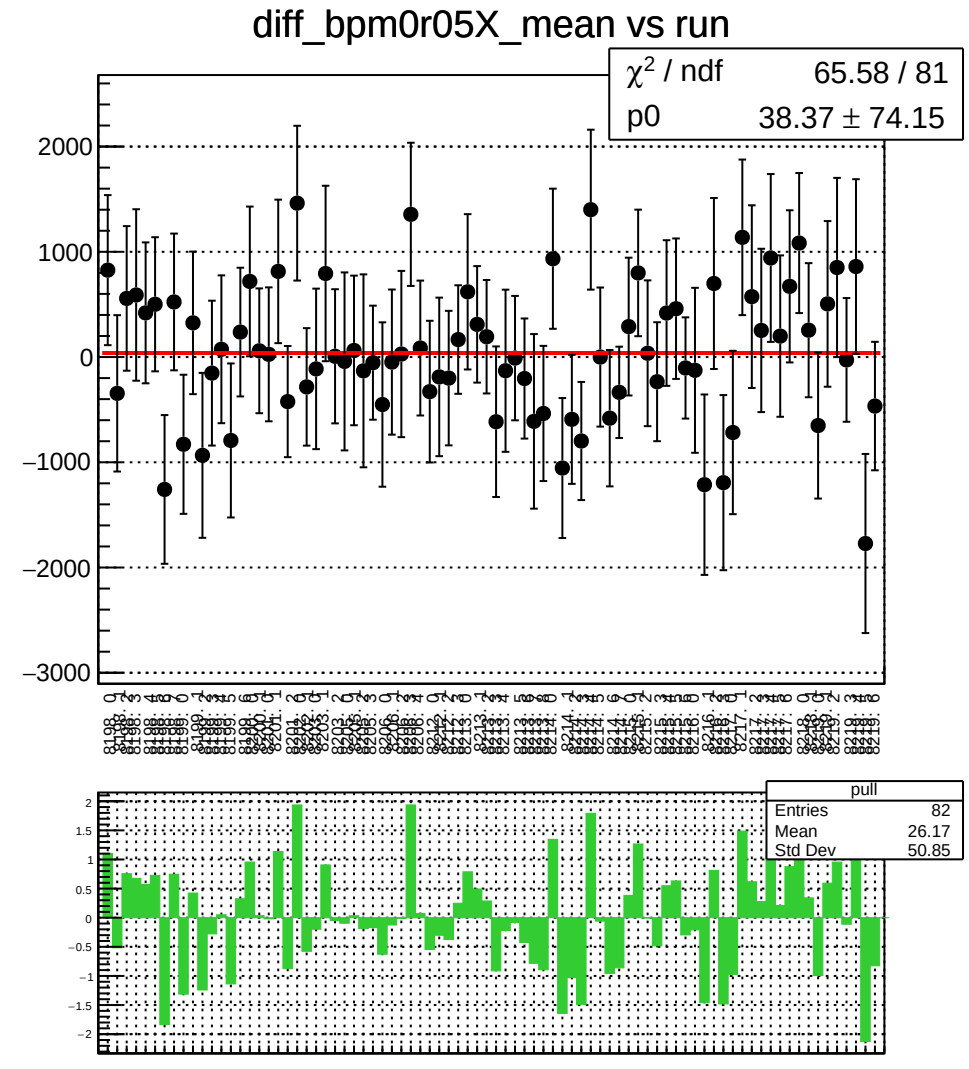

pull1D
Entries 82
Mean −0.0147
Std Dev 0.8882

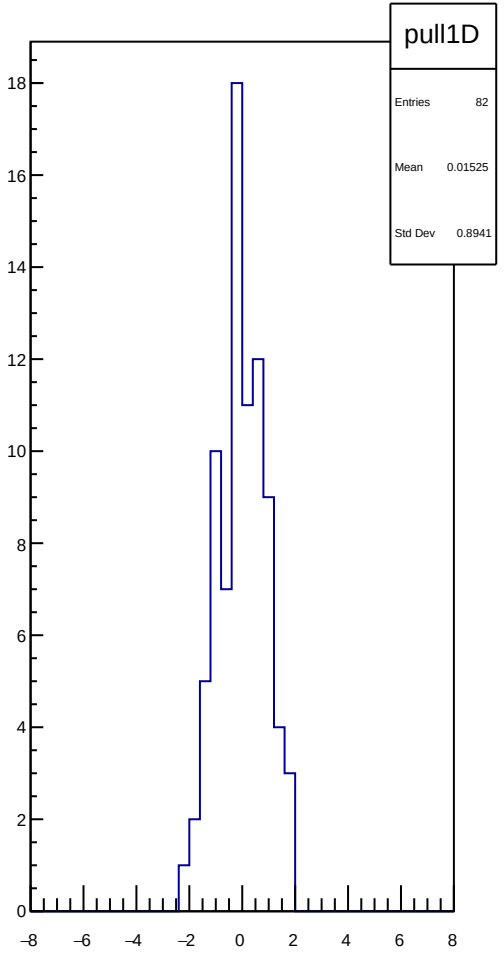

diff_bpm0r03X_rms vs run
χ² / ndf 2.266e+04 / 81
p0 5.355e+04 ± 42.35
70000
65000
60000
55000
50000
45000
40000

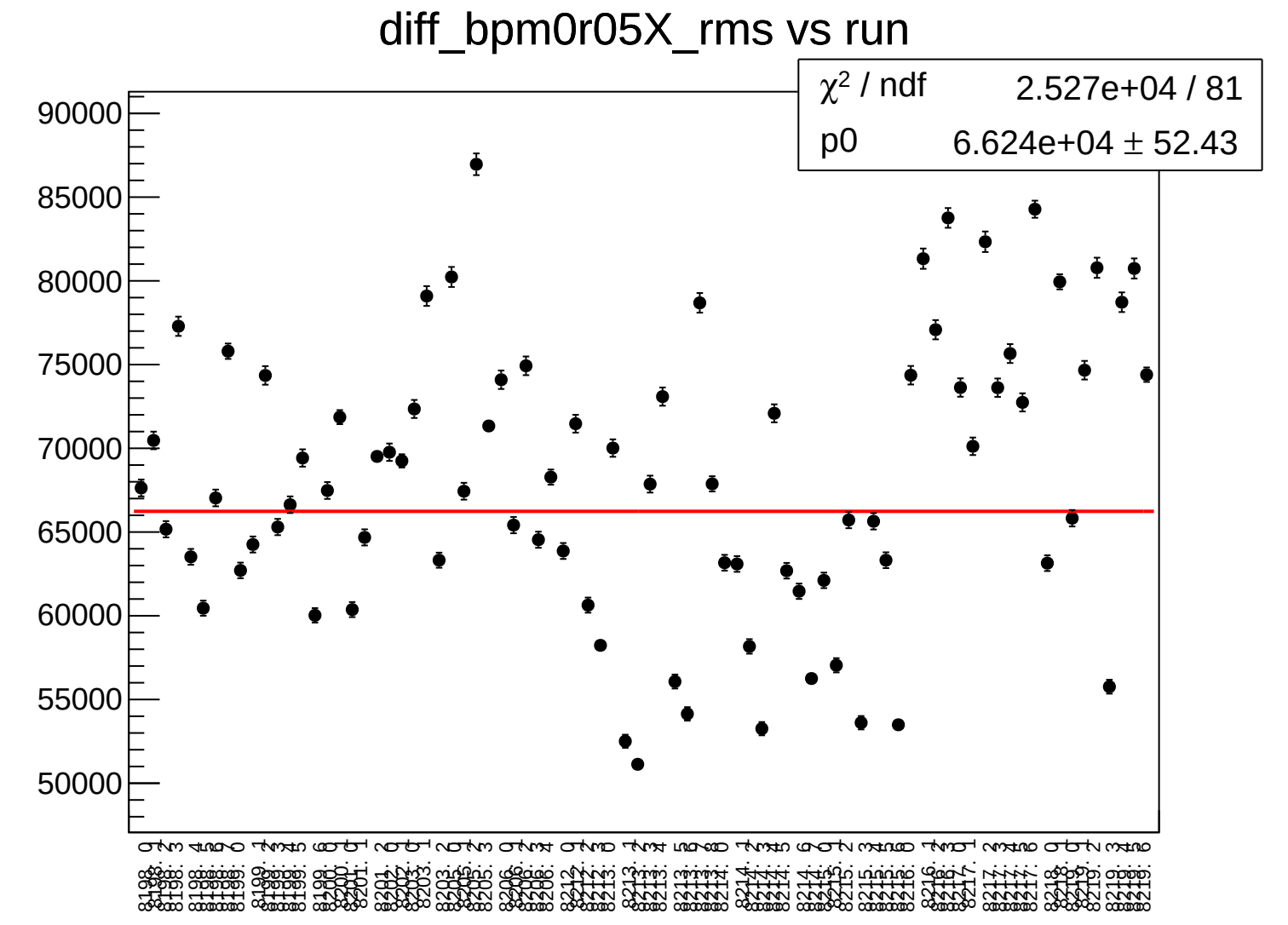

diff_bpm0r03Y_mean vs run
χ² / ndf 125.6 / 81
p0 −19.94 ± 1.522
pull
Entries 82
Mean 371.6
Std Dev 0

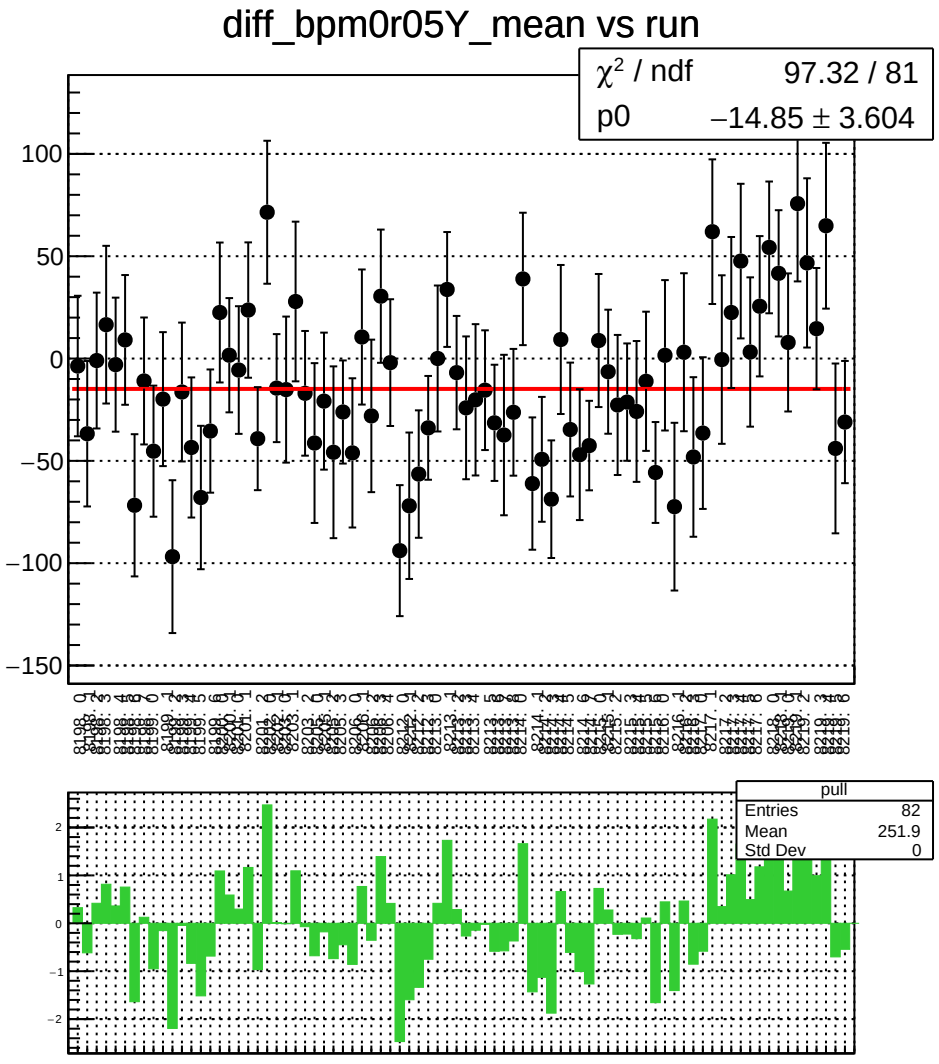

pull1D
Entries 82
Mean 0.01467
Std Dev 1.238

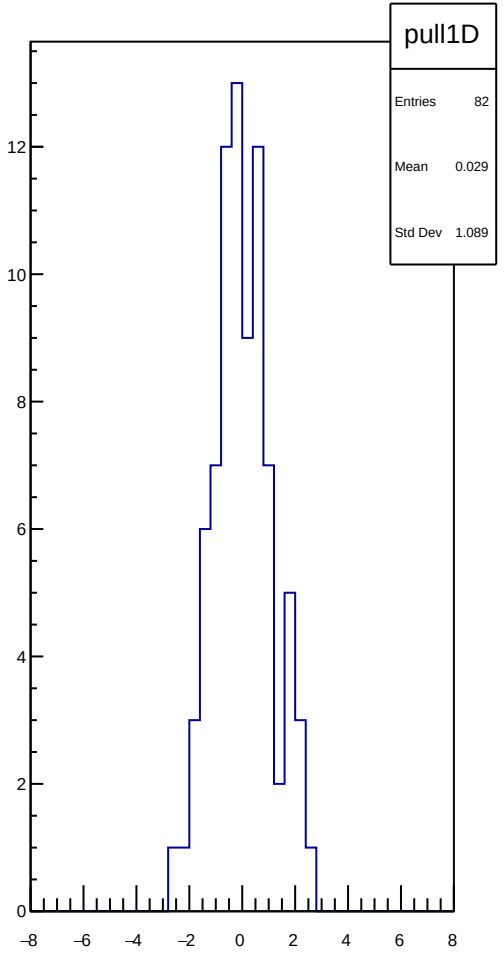

diff_bpm0r03Y_rms vs run
χ² / ndf 4712 / 81
p0 1369 ± 1.077
1550
1500
1450
1400
1350
1300
1250
1200

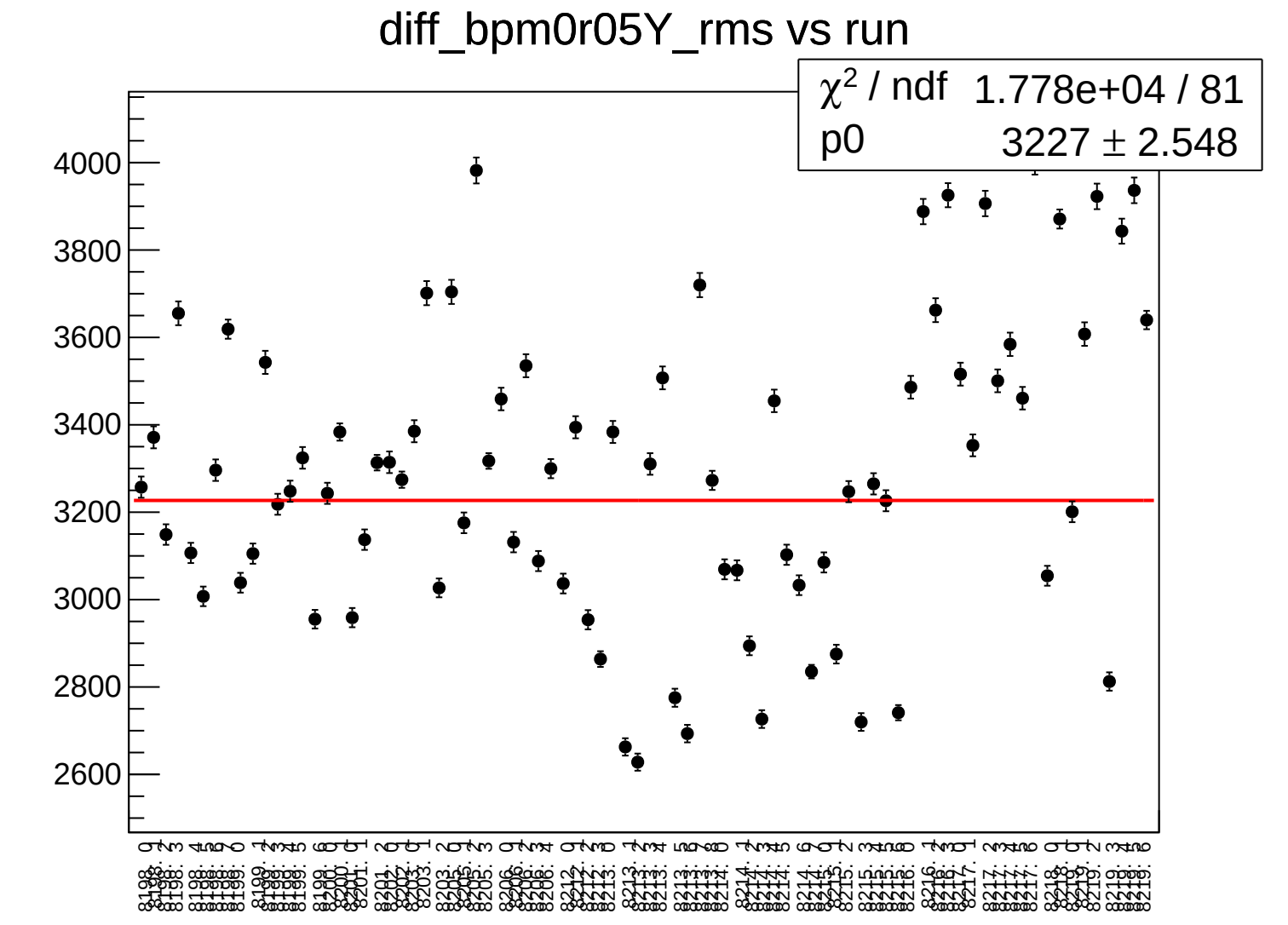

diff_bpm0r05X_mean vs run
χ² / ndf 65.58 / 81
p0 38.37 ± 74.15
pull
Entries 82
Mean 26.17
Std Dev 50.85

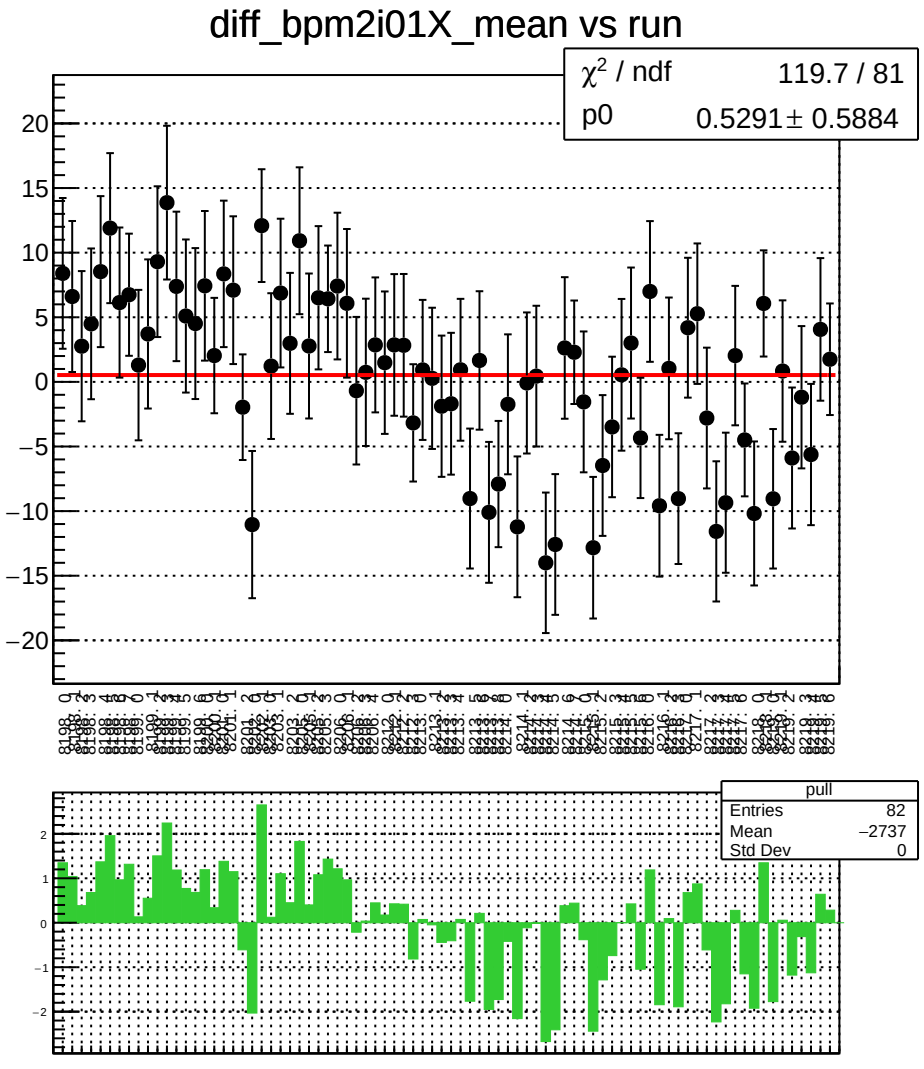

pull1D
Entries 82
Mean 0.01525
Std Dev 0.8941

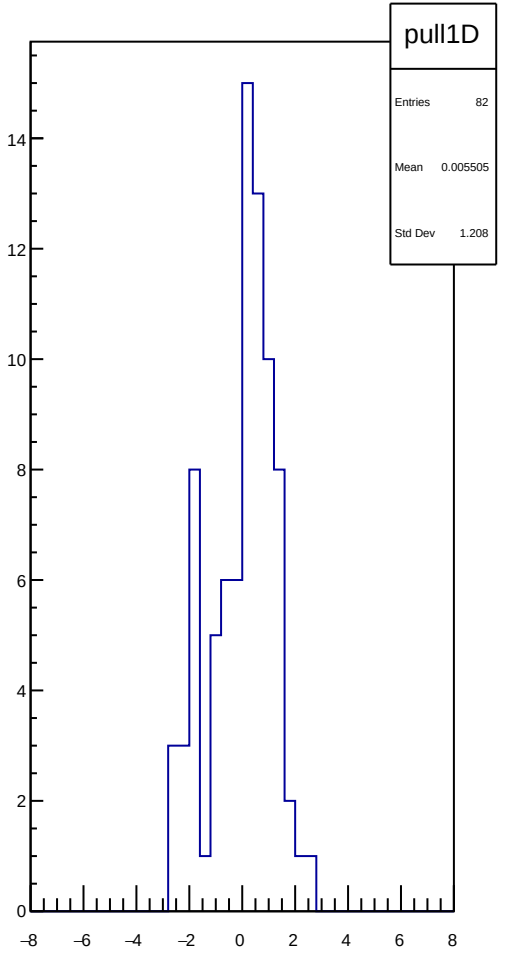

diff_bpm0r05X_rms vs run
$\chi^2$ / ndf 2.527e+04 / 81
p0 6.624e+04 ± 52.43
90000
85000
80000
75000
70000
65000
60000
55000
50000

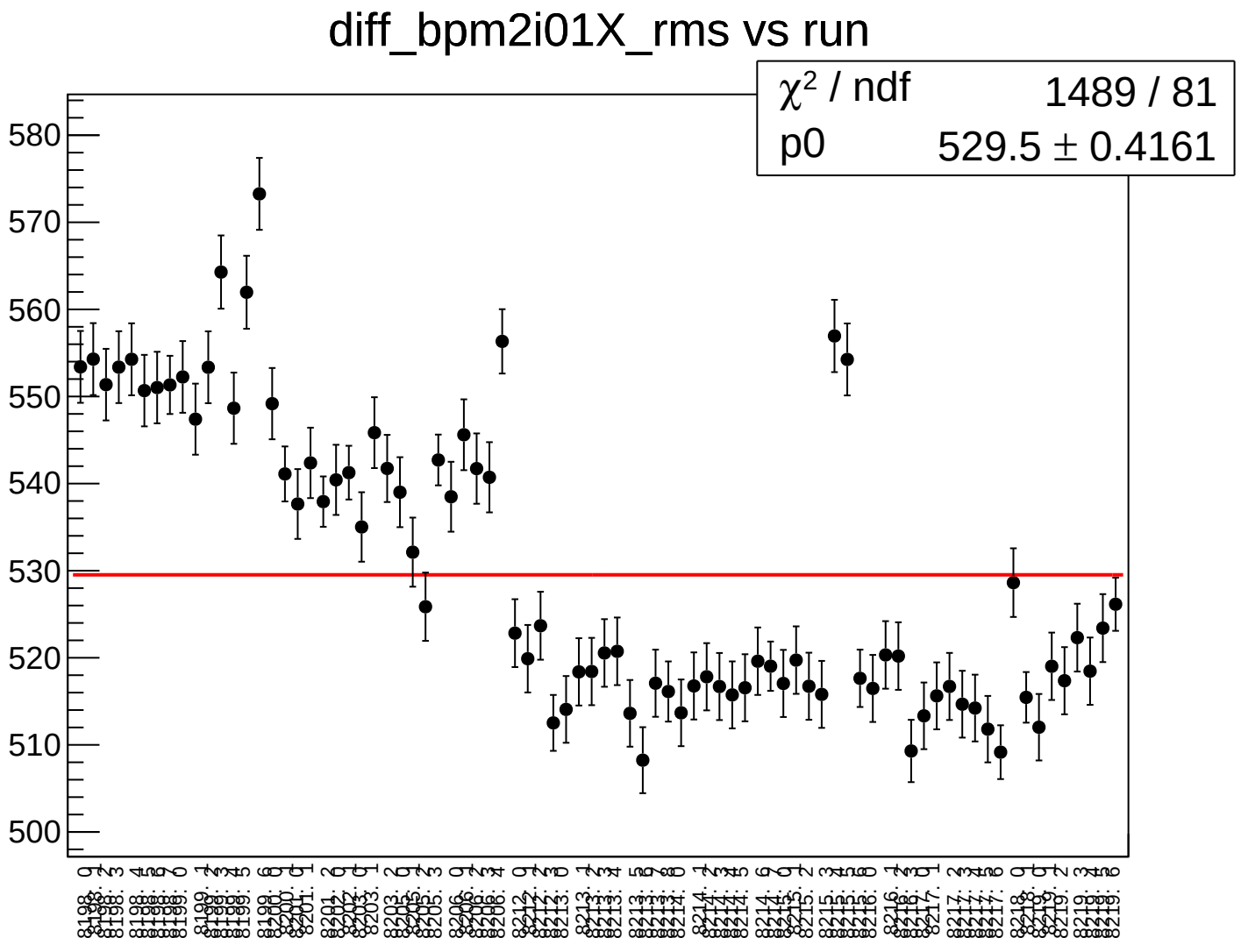

diff_bpm0r05Y_mean vs run
χ² / ndf 97.32 / 81
p0 −14.85 ± 3.604
100
50
0
−50
−100
−150
pull
Entries 82
Mean 251.9
Std Dev 0
2
1
0
−1
−2

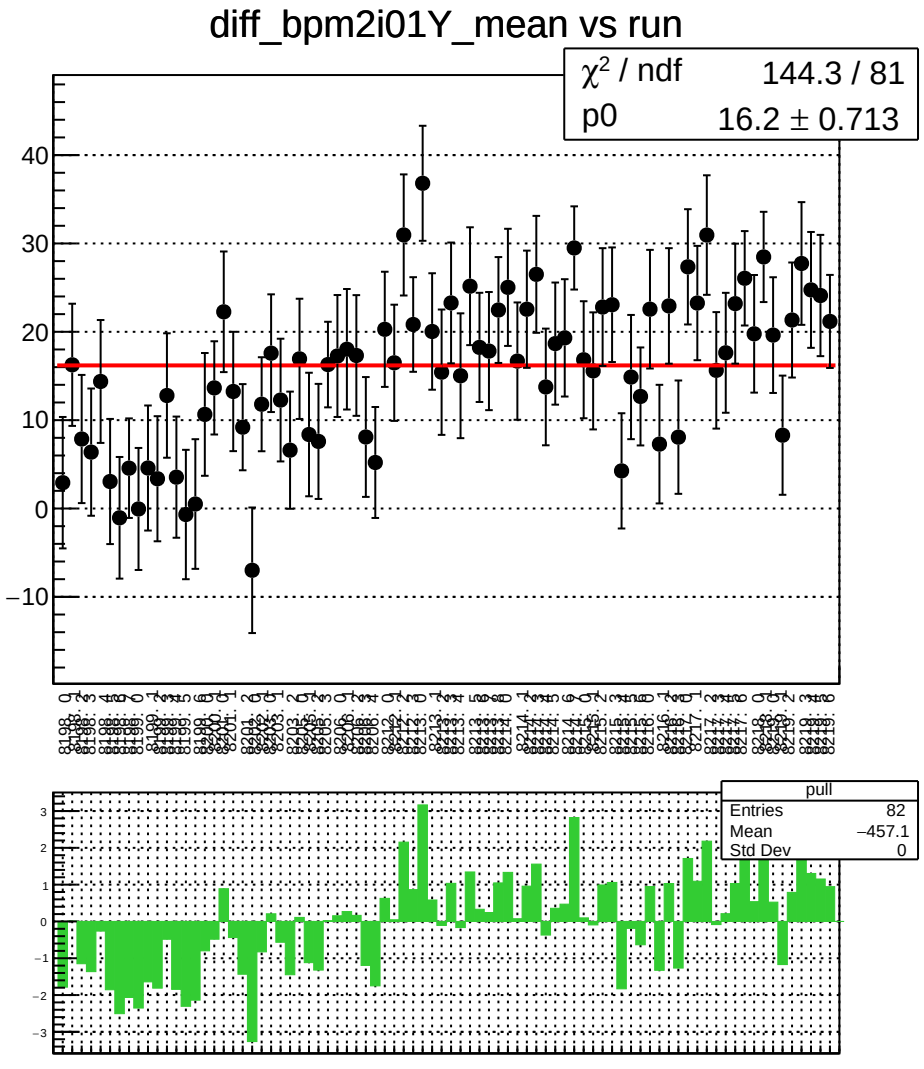

pull1D
Entries 82
Mean 0.029
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

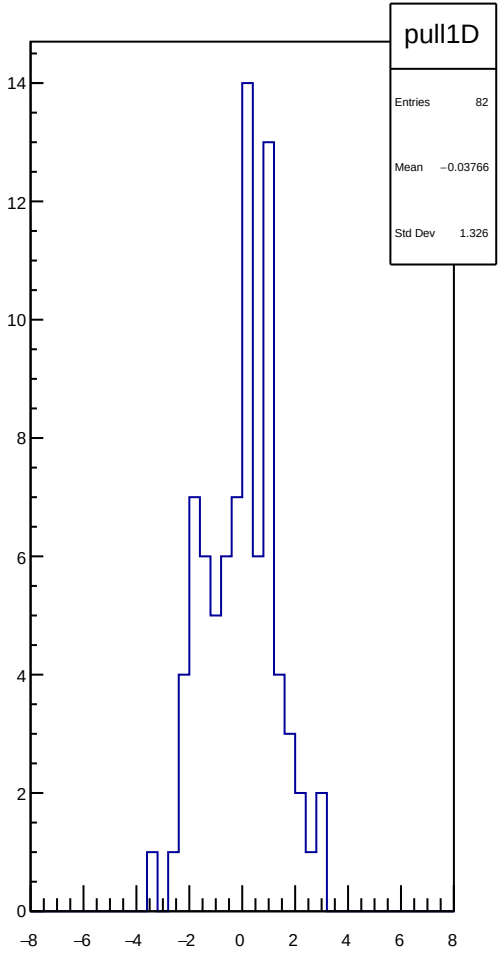

diff_bpm0r05Y_rms vs run
χ² / ndf 1.778e+04 / 81
p0 3227 ± 2.548
4000
3800
3600
3400
3200
3000
2800
2600

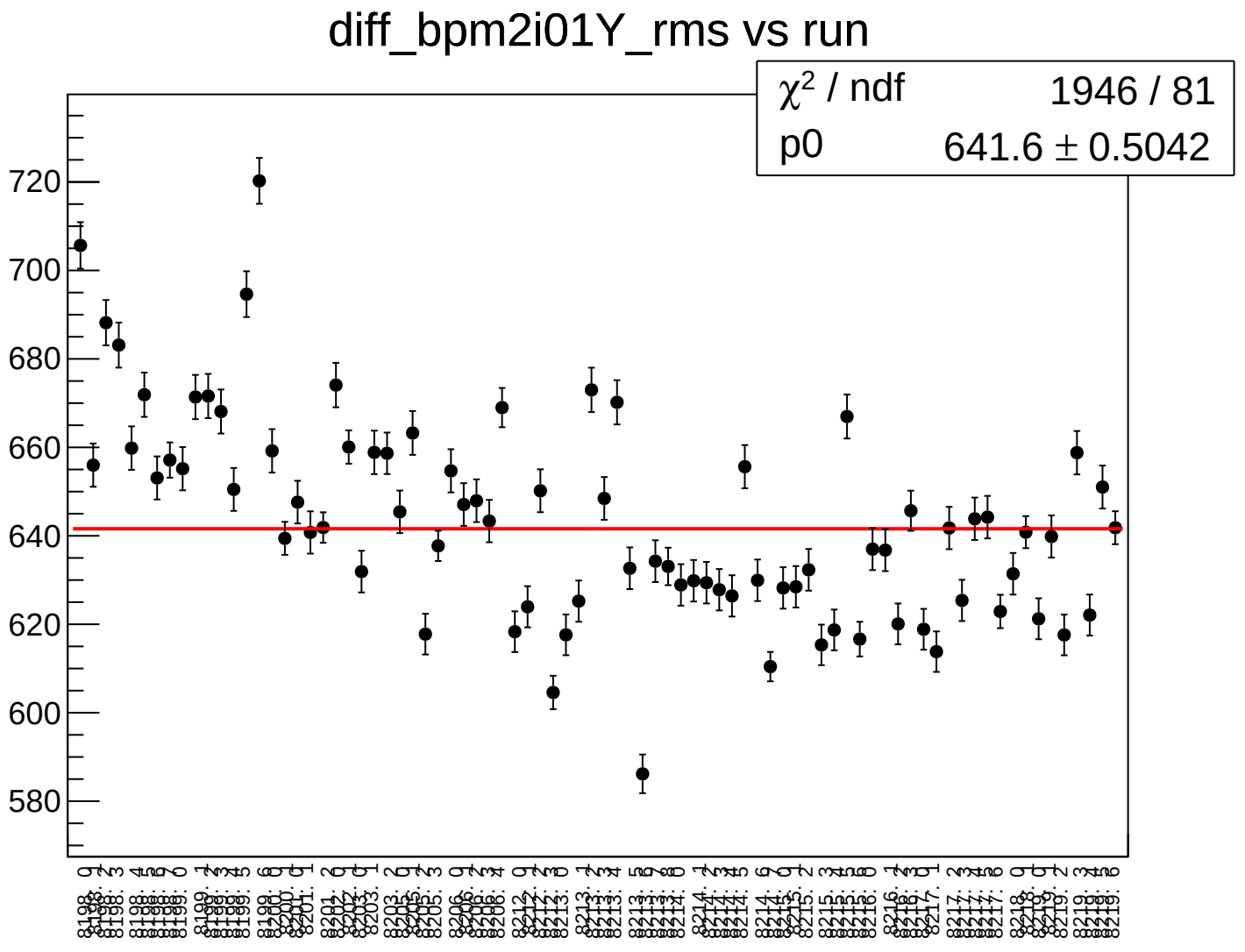

diff_bpm2i01X_mean vs run
χ² / ndf 119.7 / 81
p0 0.5291± 0.5884
pull
Entries 82
Mean −2737
Std Dev 0

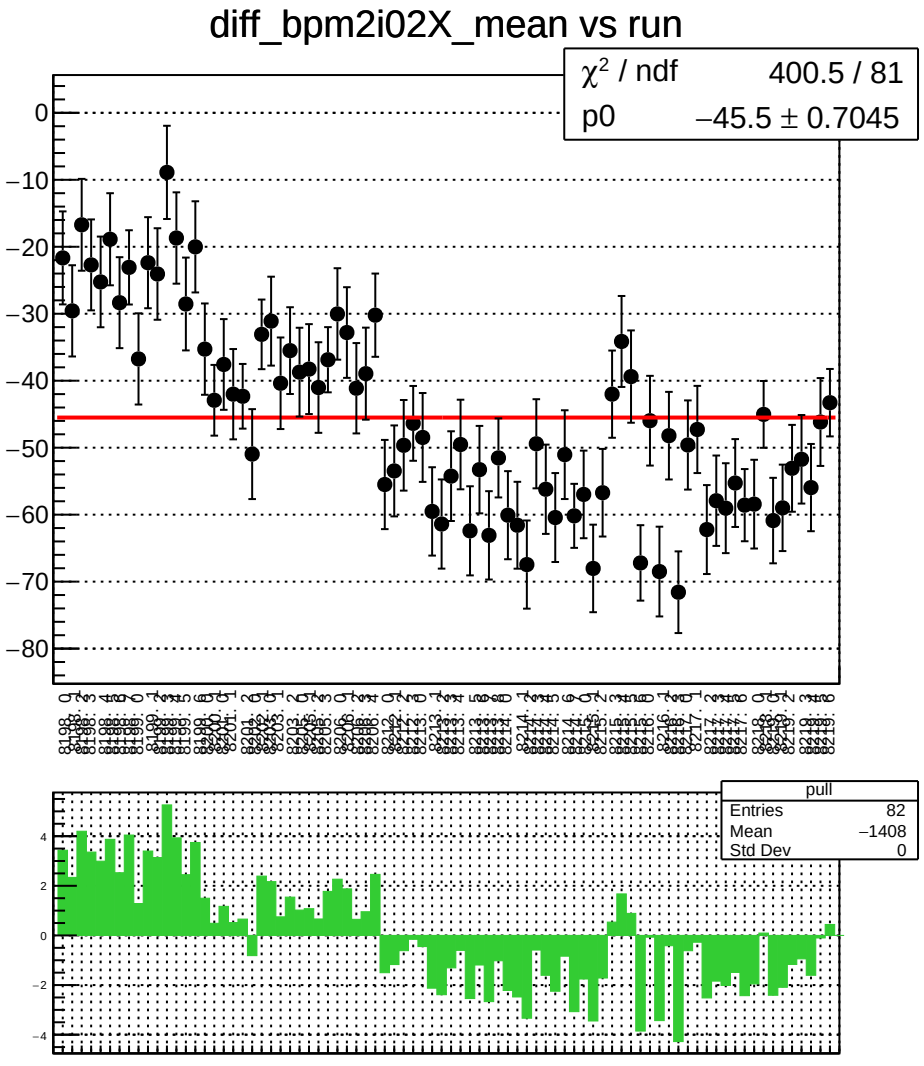

pull1D
Entries 82
Mean 0.005505
Std Dev 1.208

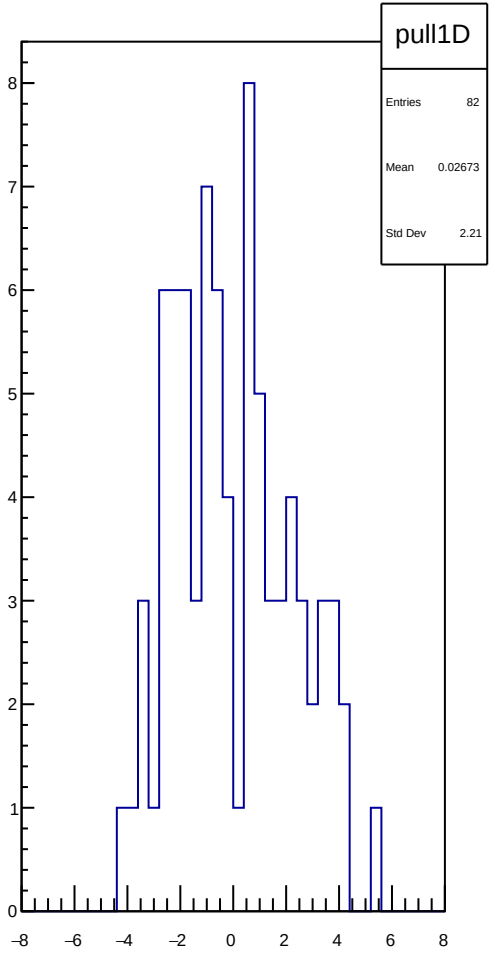

diff_bpm2i01X_rms vs run
χ² / ndf 1489 / 81
p0 529.5 ± 0.4161
580
570
560
550
540
530
520
510
500

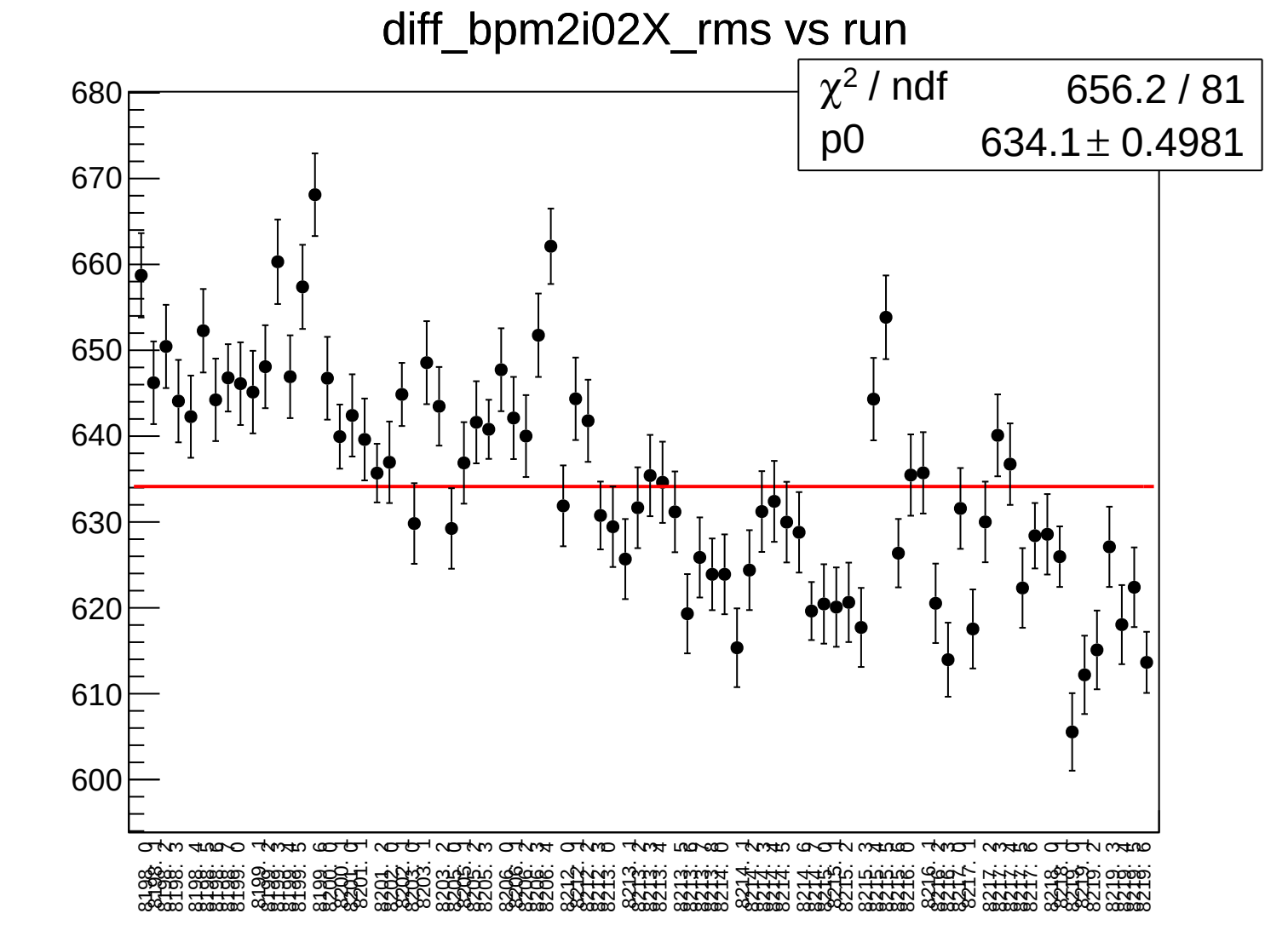

diff_bpm2i01Y_mean vs run
χ² / ndf 144.3 / 81
p0 16.2 ± 0.713
pull
Entries 82
Mean −457.1
Std Dev 0

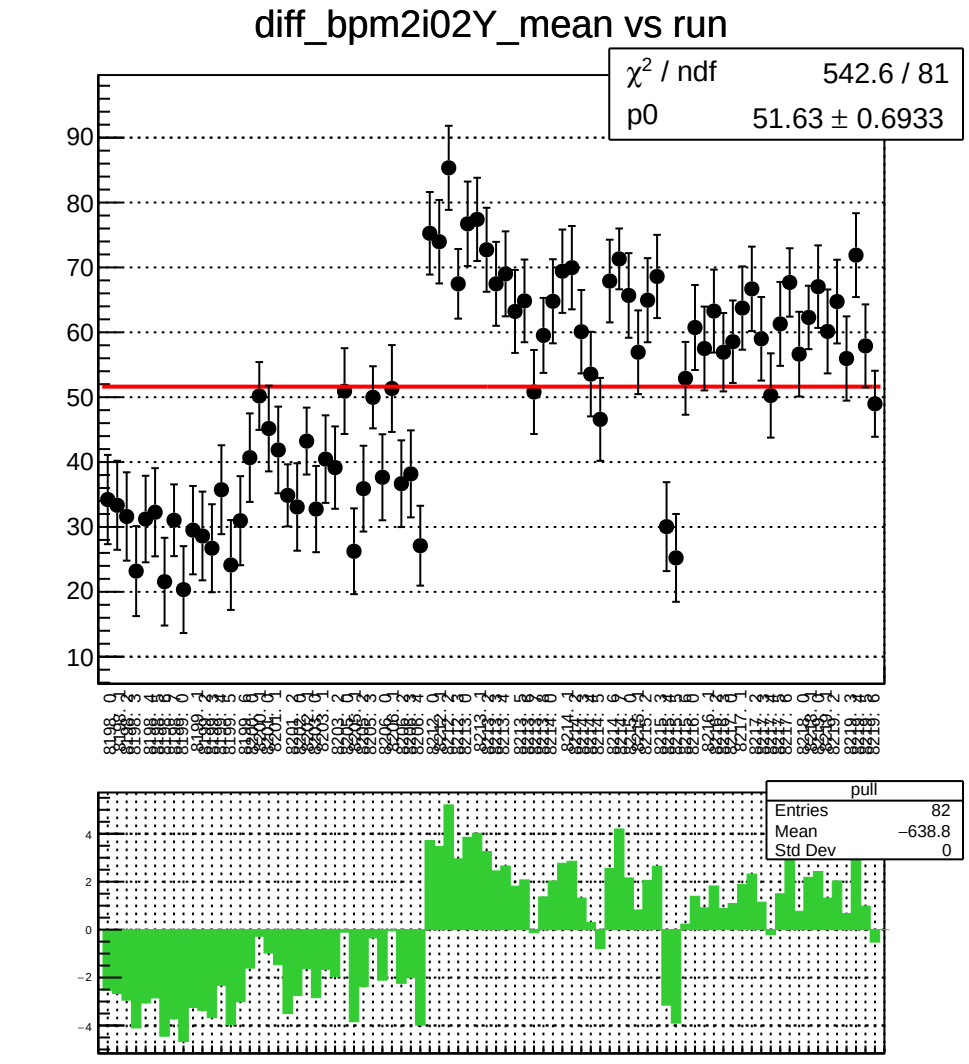

pull1D
Entries 82
Mean −0.03766
Std Dev 1.326

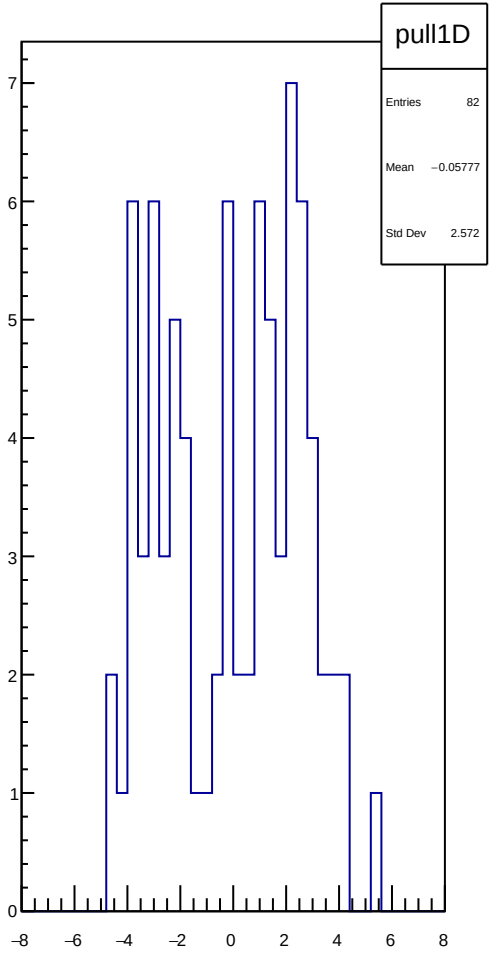

diff_bpm2i01Y_rms vs run
χ² / ndf 1946 / 81
p0 641.6 ± 0.5042
720
700
680
660
640
620
600
580

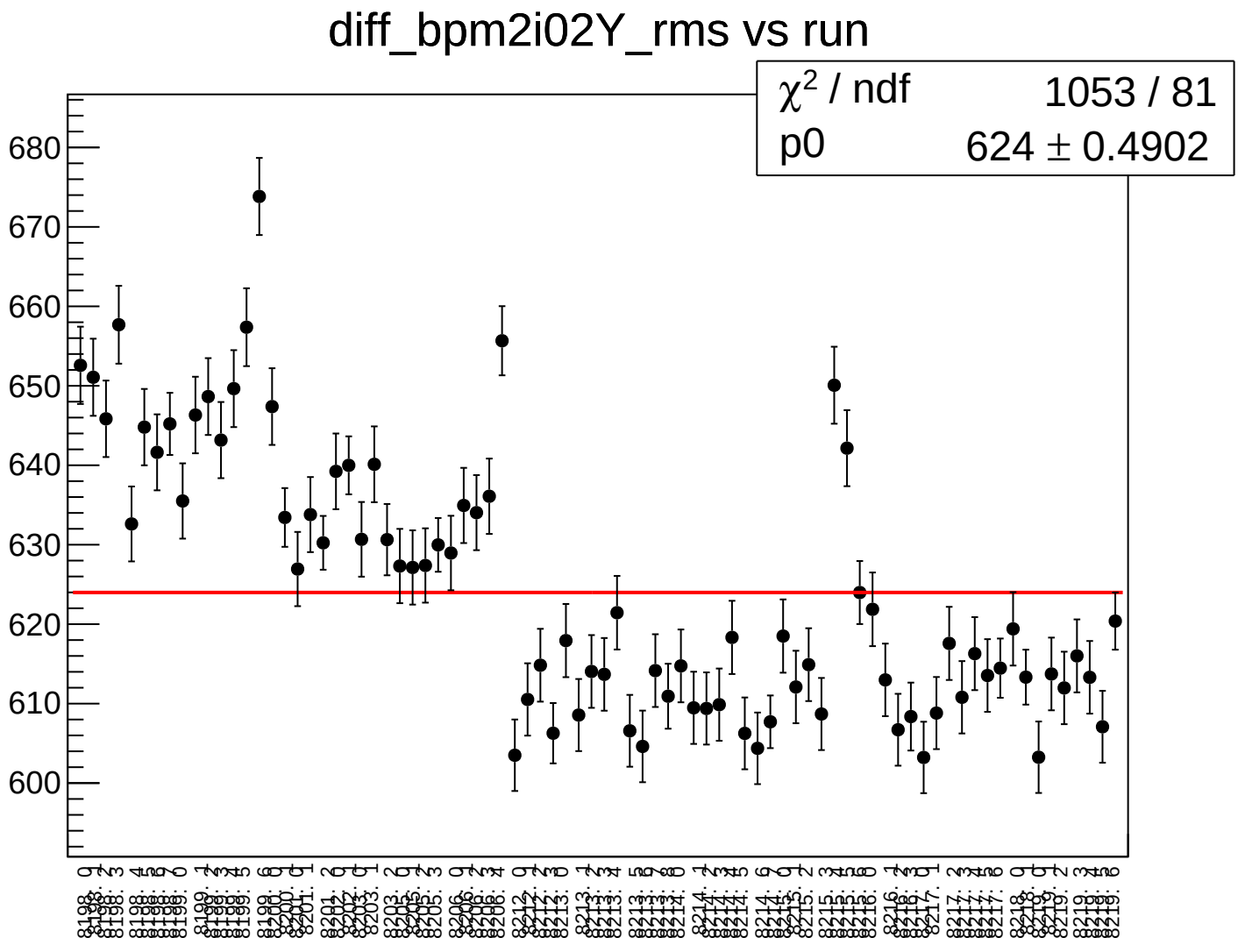

diff_bpm2i02X_mean vs run
χ² / ndf 400.5 / 81
p0 −45.5 ± 0.7045
pull
Entries 82
Mean −1408
Std Dev 0

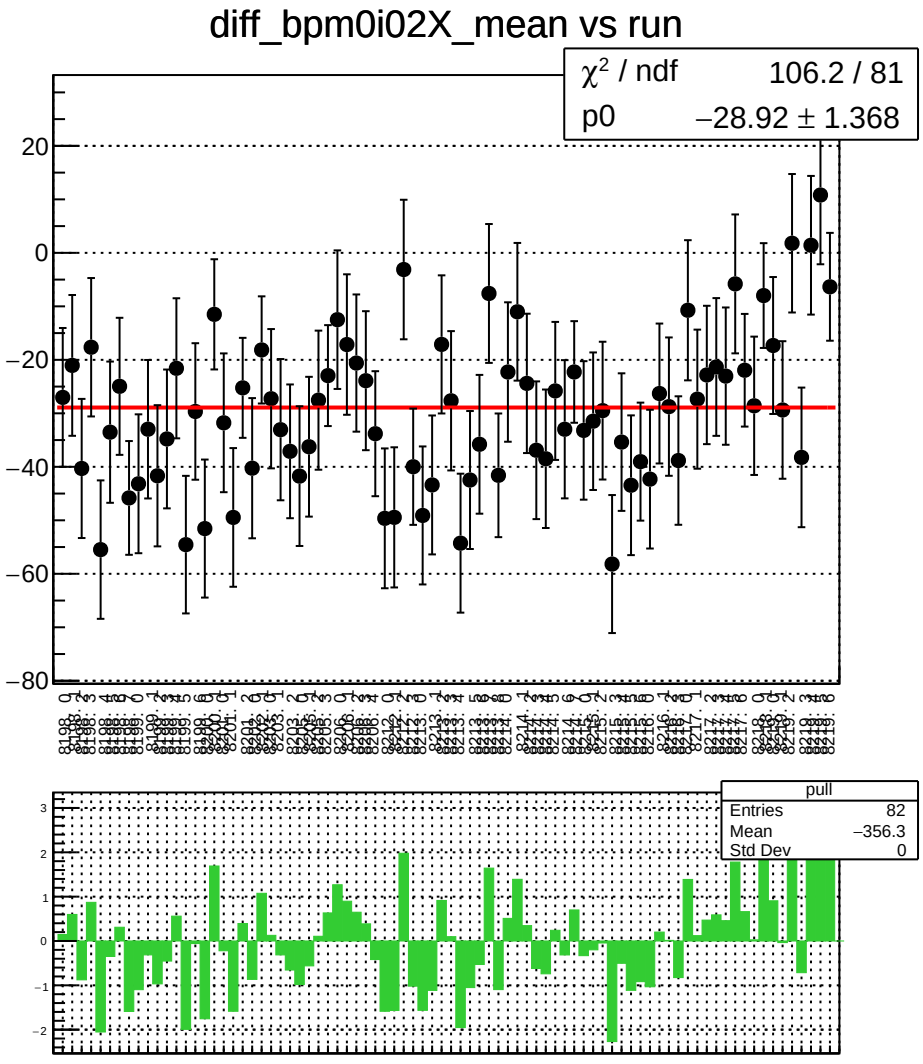

pull1D
Entries 82
Mean 0.02673
Std Dev 2.21

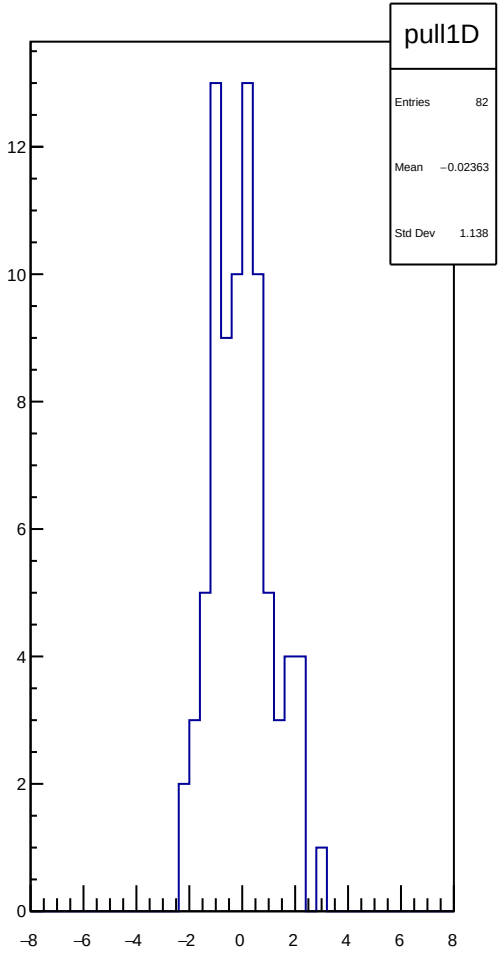

diff_bpm2i02X_rms vs run
χ² / ndf 656.2 / 81
p0 634.1 ± 0.4981
680
670
660
650
640
630
620
610
600

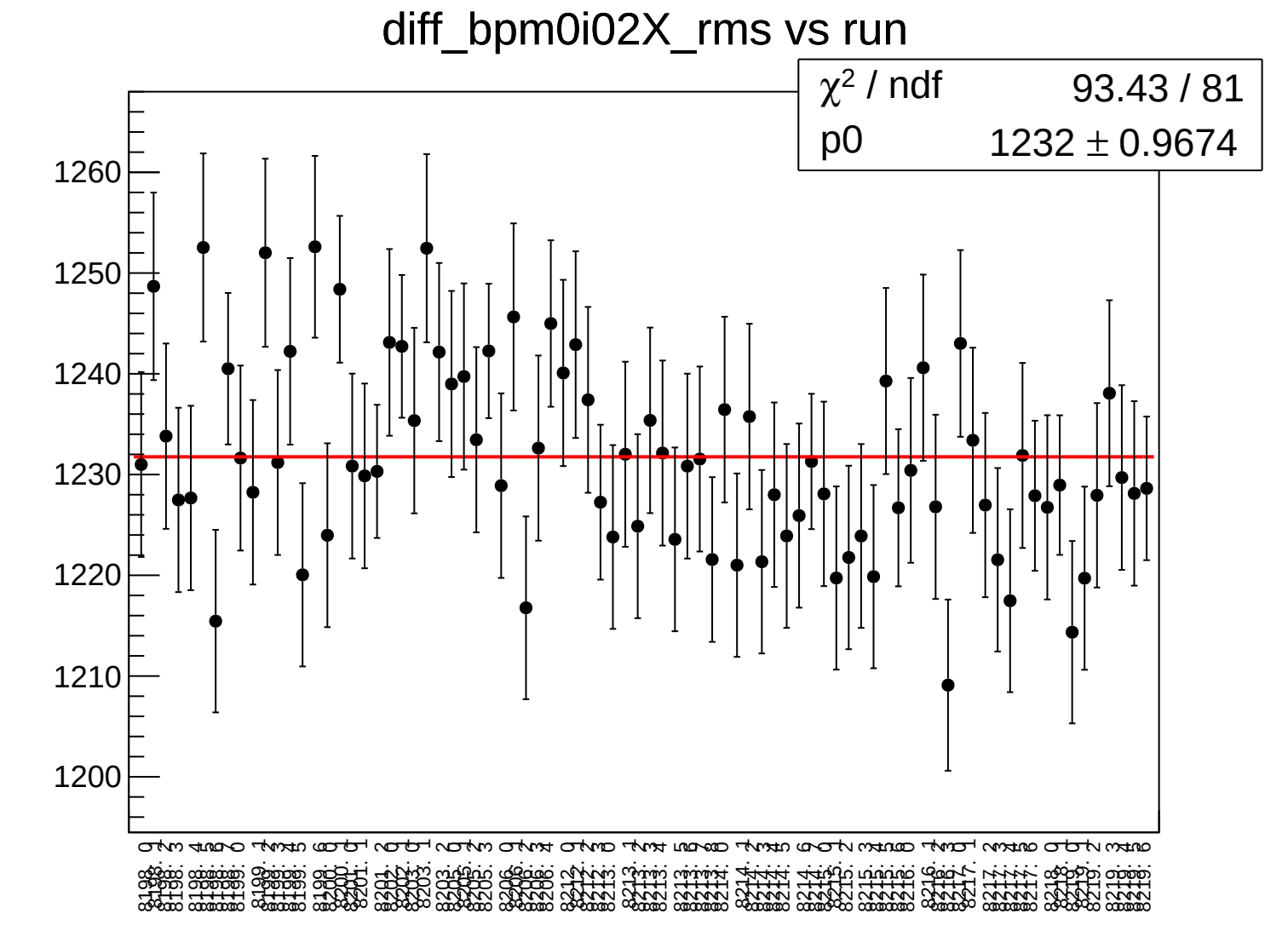

diff_bpm2i02Y_mean vs run
χ² / ndf 542.6 / 81
p0 51.63 ± 0.6933
pull
Entries 82
Mean −638.8
Std Dev 0

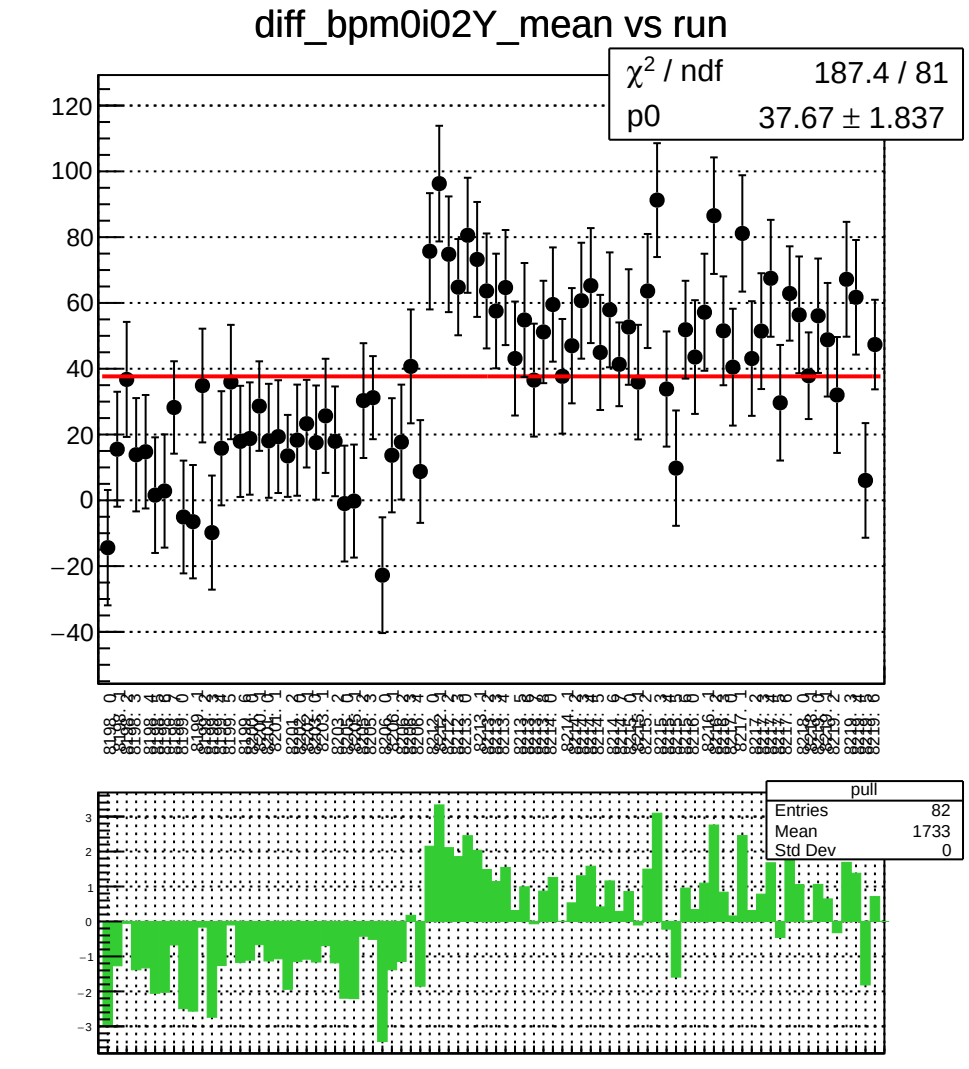

pull1D
Entries 82
Mean −0.05777
Std Dev 2.572

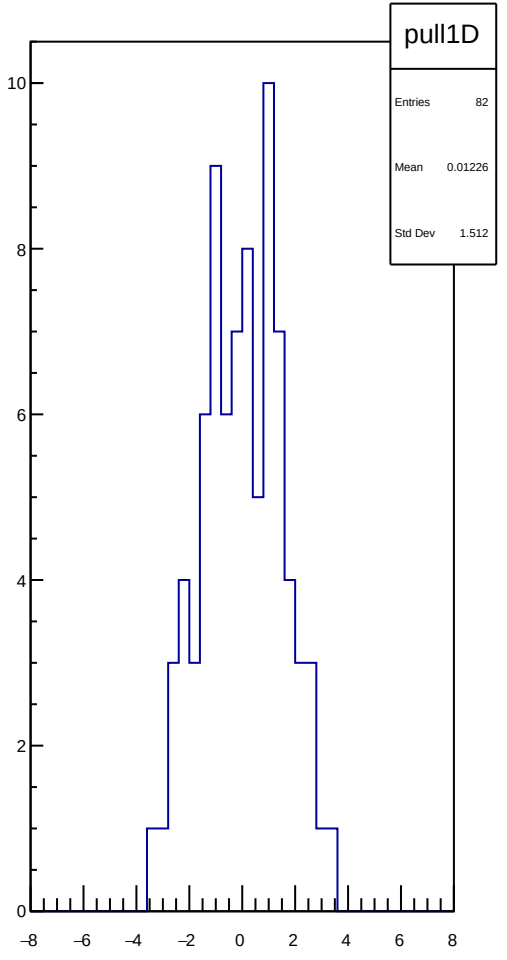

diff_bpm2i02Y_rms vs run
$\chi^2$ / ndf 1053 / 81
p0 624 ± 0.4902
680
670
660
650
640
630
620
610
600

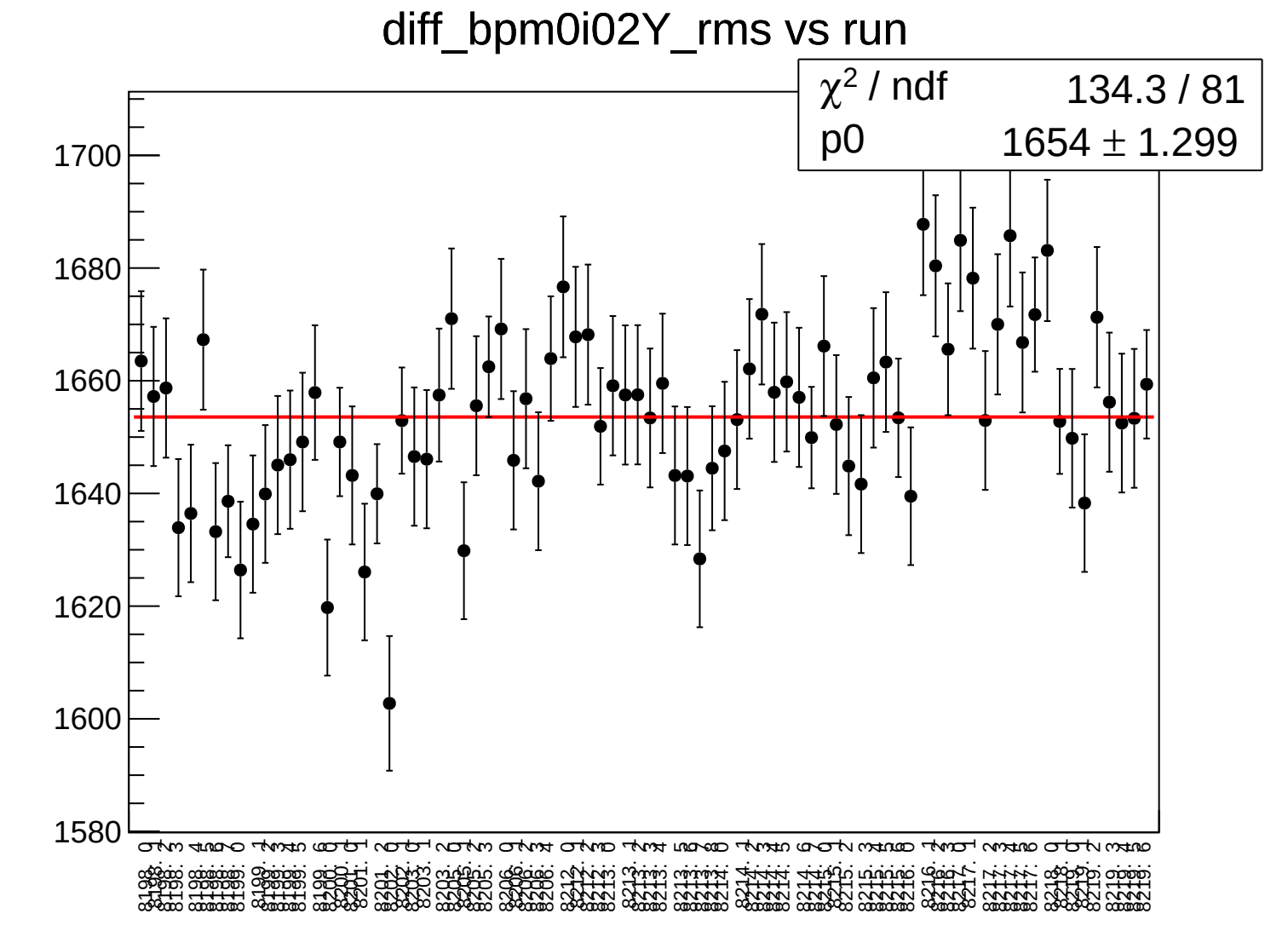

diff_bpm0i02X_mean vs run
χ² / ndf 106.2 / 81
p0 −28.92 ± 1.368
pull
Entries 82
Mean −356.3
Std Dev 0

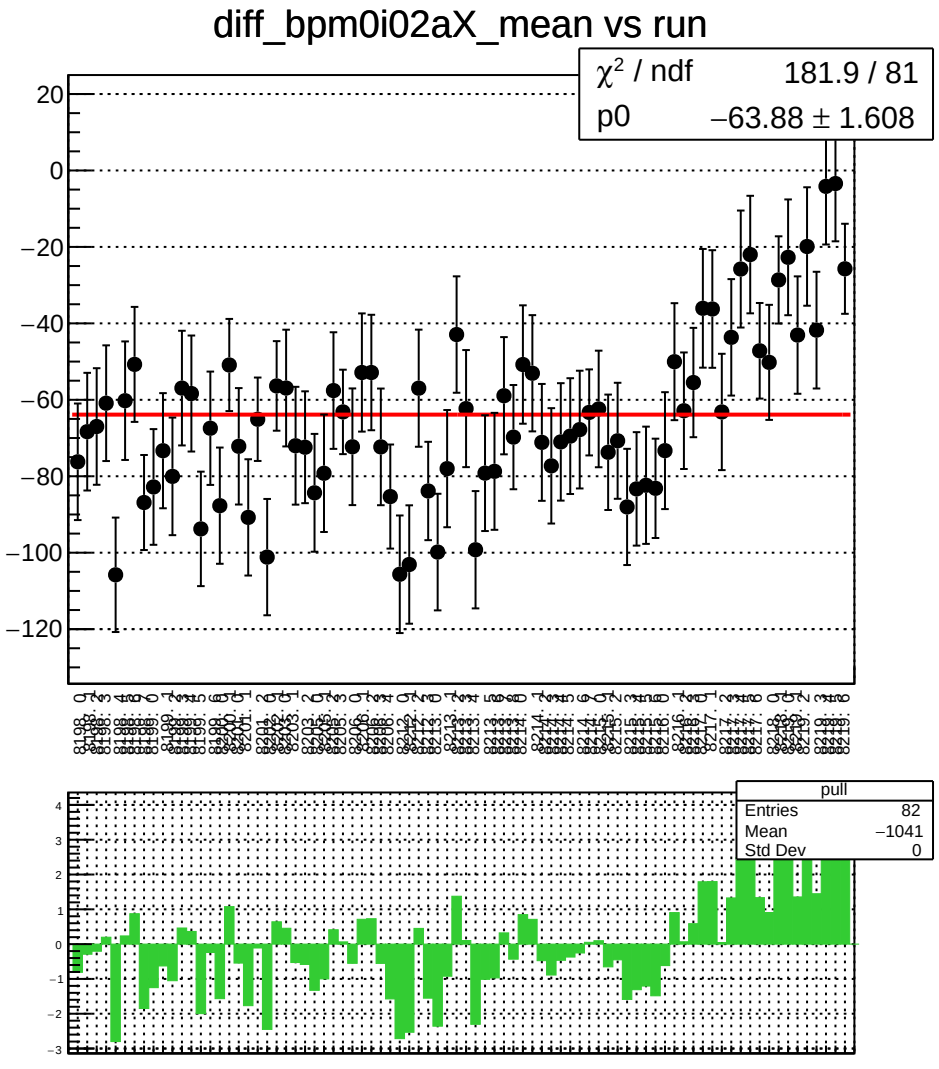

pull1D
Entries 82
Mean −0.02363
Std Dev 1.138

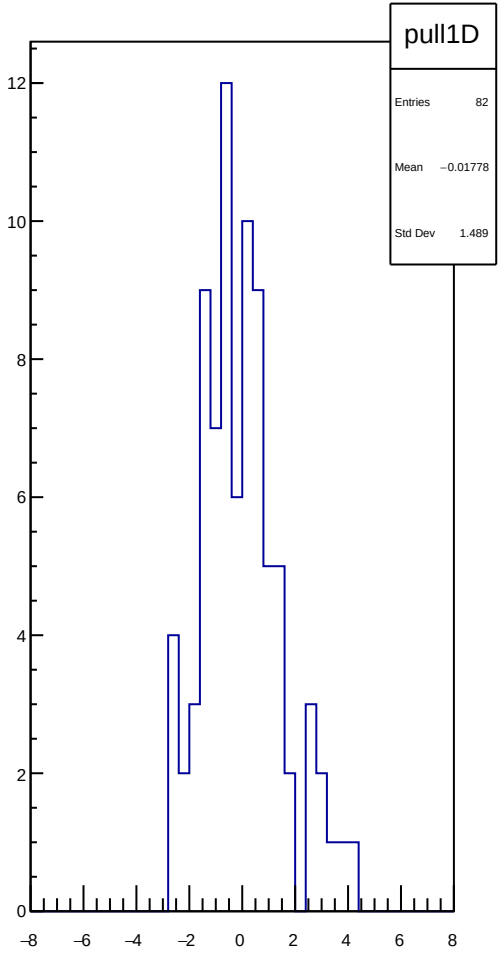

diff_bpm0i02X_rms vs run
χ² / ndf 93.43 / 81
p0 1232 ± 0.9674
1260
1250
1240
1230
1220
1210
1200

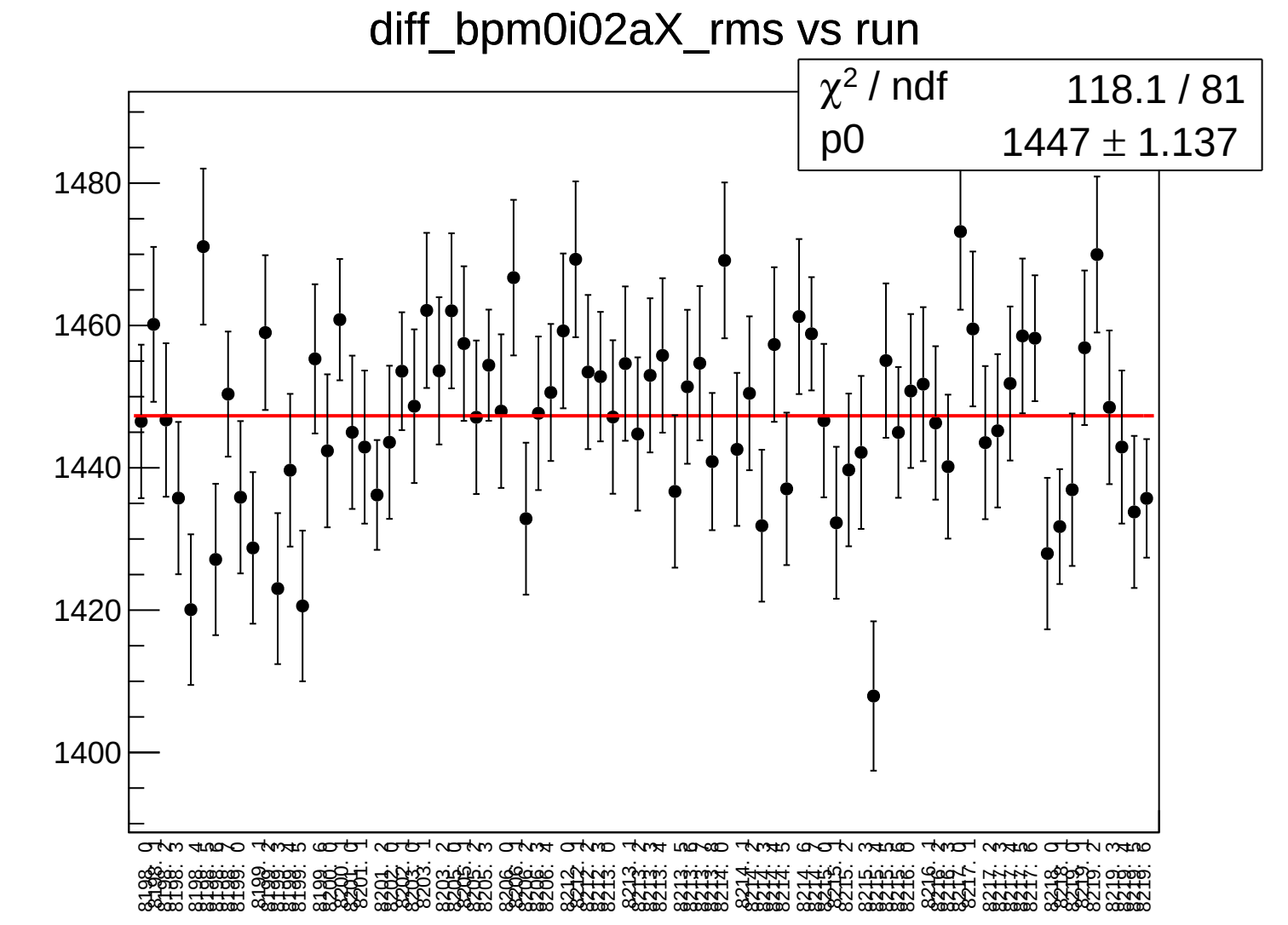

diff_bpm0i02Y_mean vs run
χ² / ndf 187.4 / 81
p0 37.67 ± 1.837
pull
Entries 82
Mean 1733
Std Dev 0

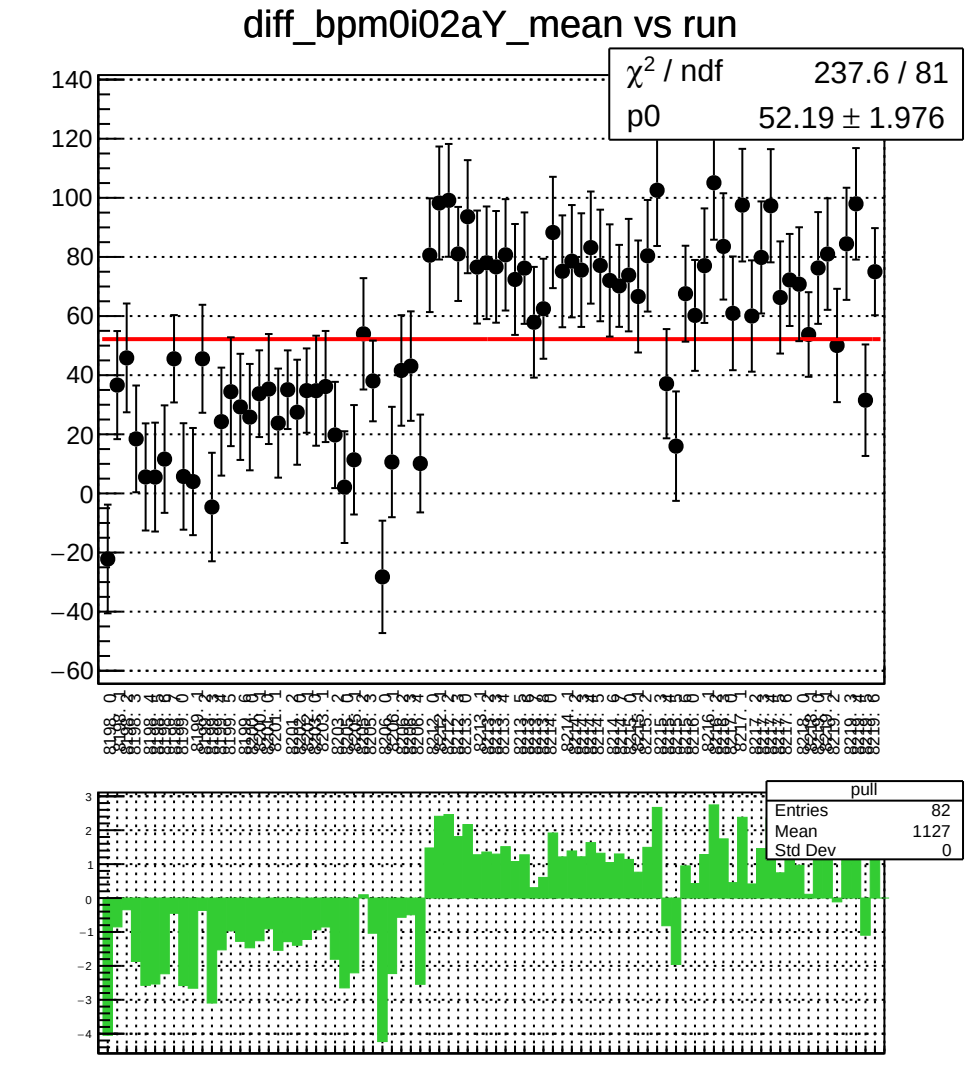

pull1D
Entries 82
Mean 0.01226
Std Dev 1.512

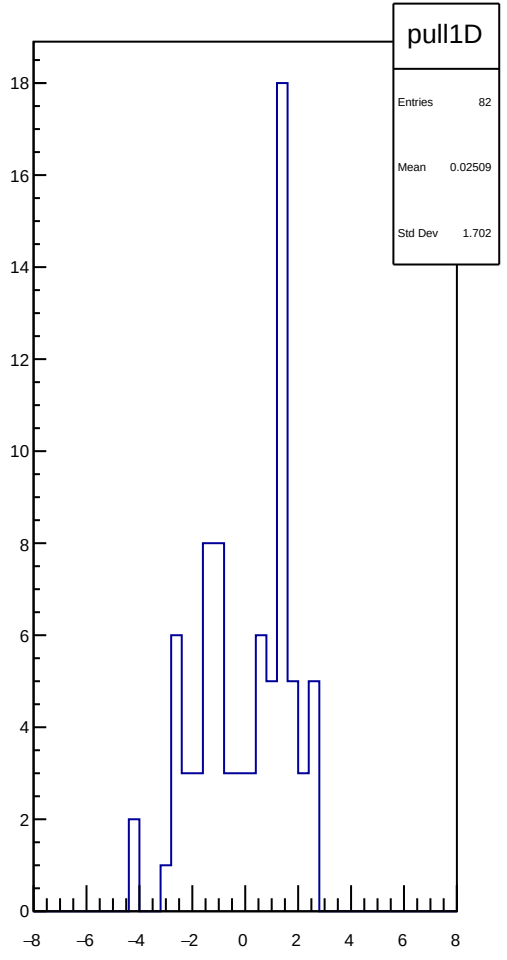

diff_bpm0i02Y_rms vs run
χ² / ndf 134.3 / 81
p0 1654 ± 1.299
1700
1680
1660
1640
1620
1600
1580

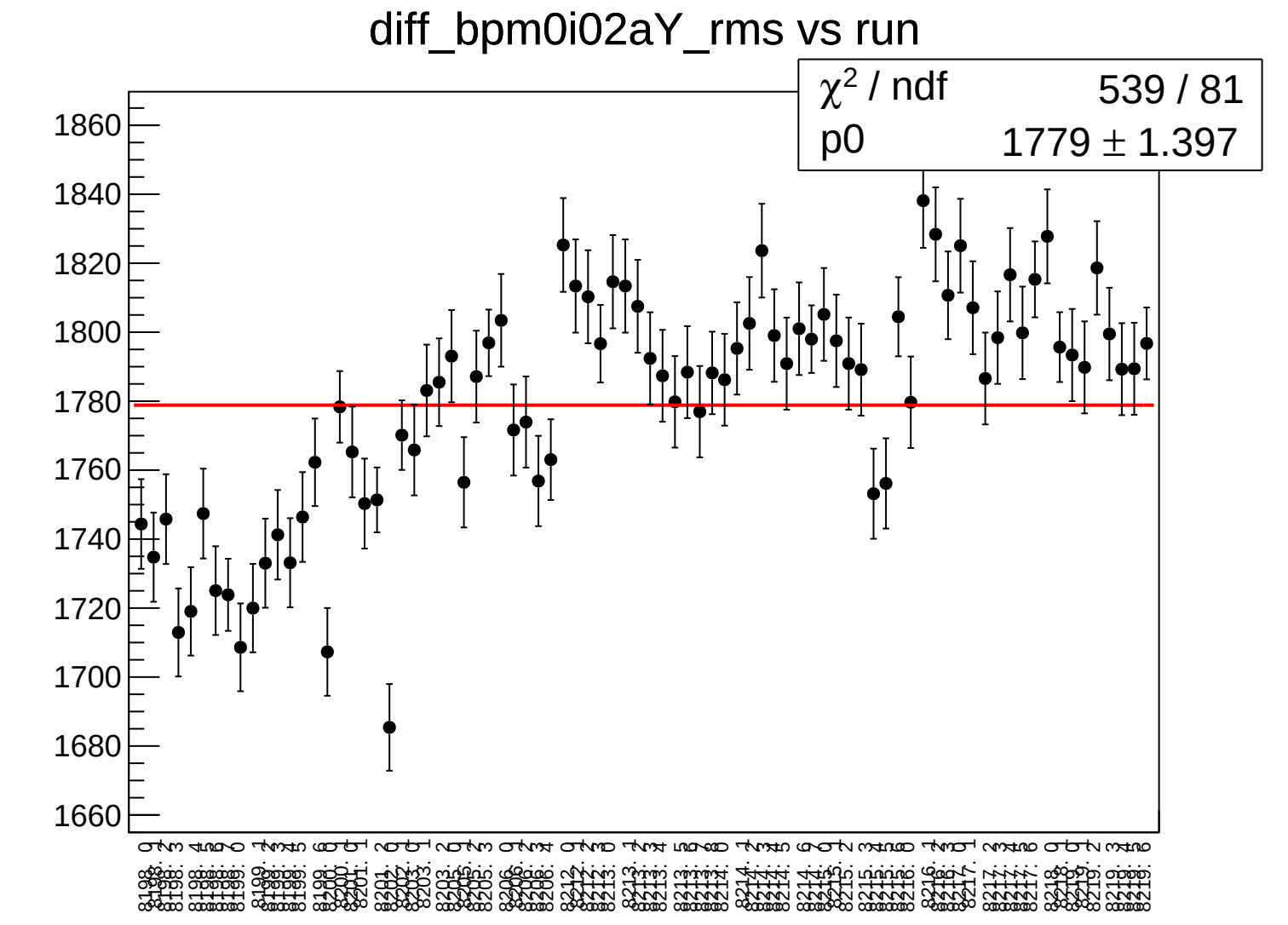

diff_bpm0i02aX_mean vs run
χ² / ndf 181.9 / 81
p0 −63.88 ± 1.608
pull
Entries 82
Mean −1041
Std Dev 0

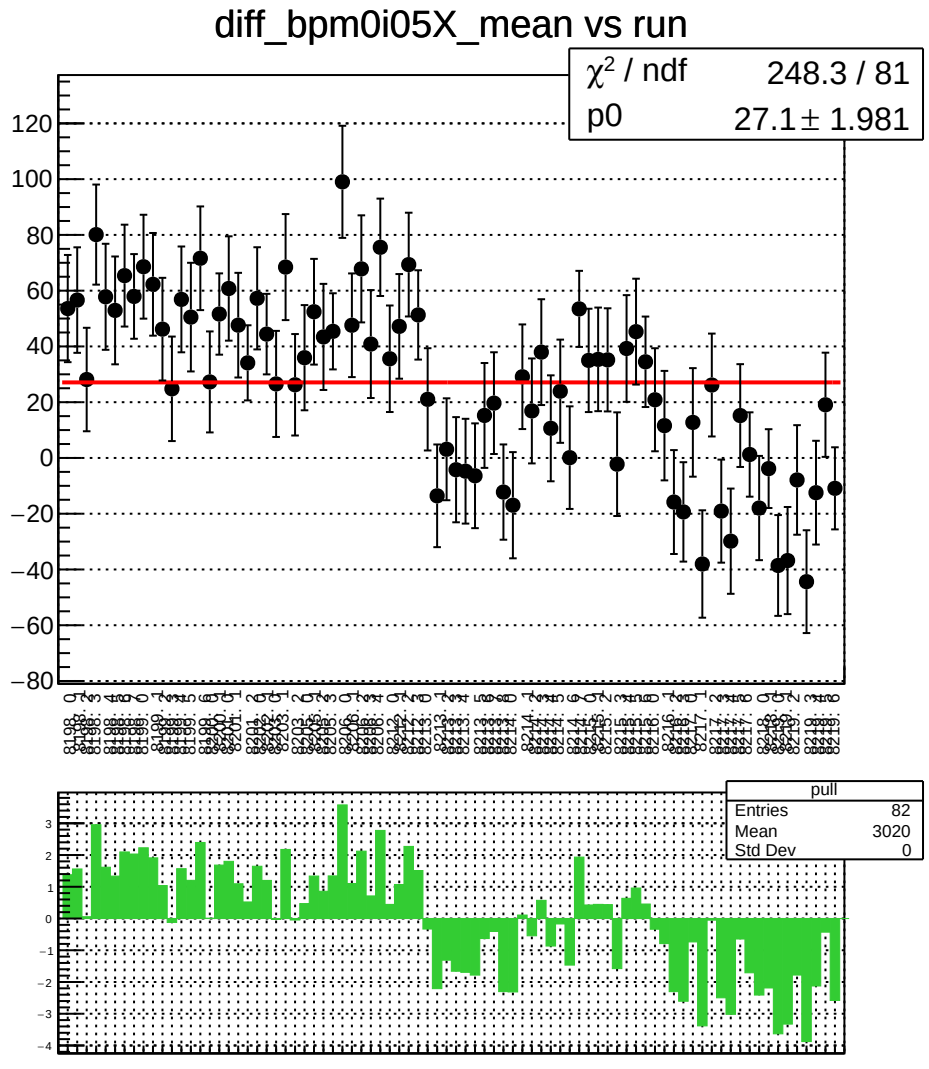

pull1D
Entries 82
Mean −0.01778
Std Dev 1.489

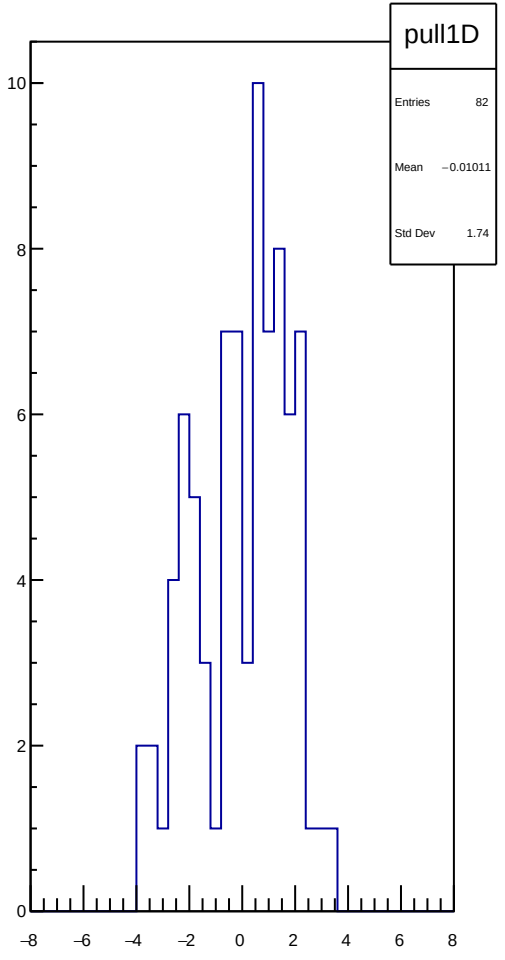

diff_bpm0i02aX_rms vs run
χ² / ndf 118.1 / 81
p0 1447 ± 1.137
1480
1460
1440
1420
1400

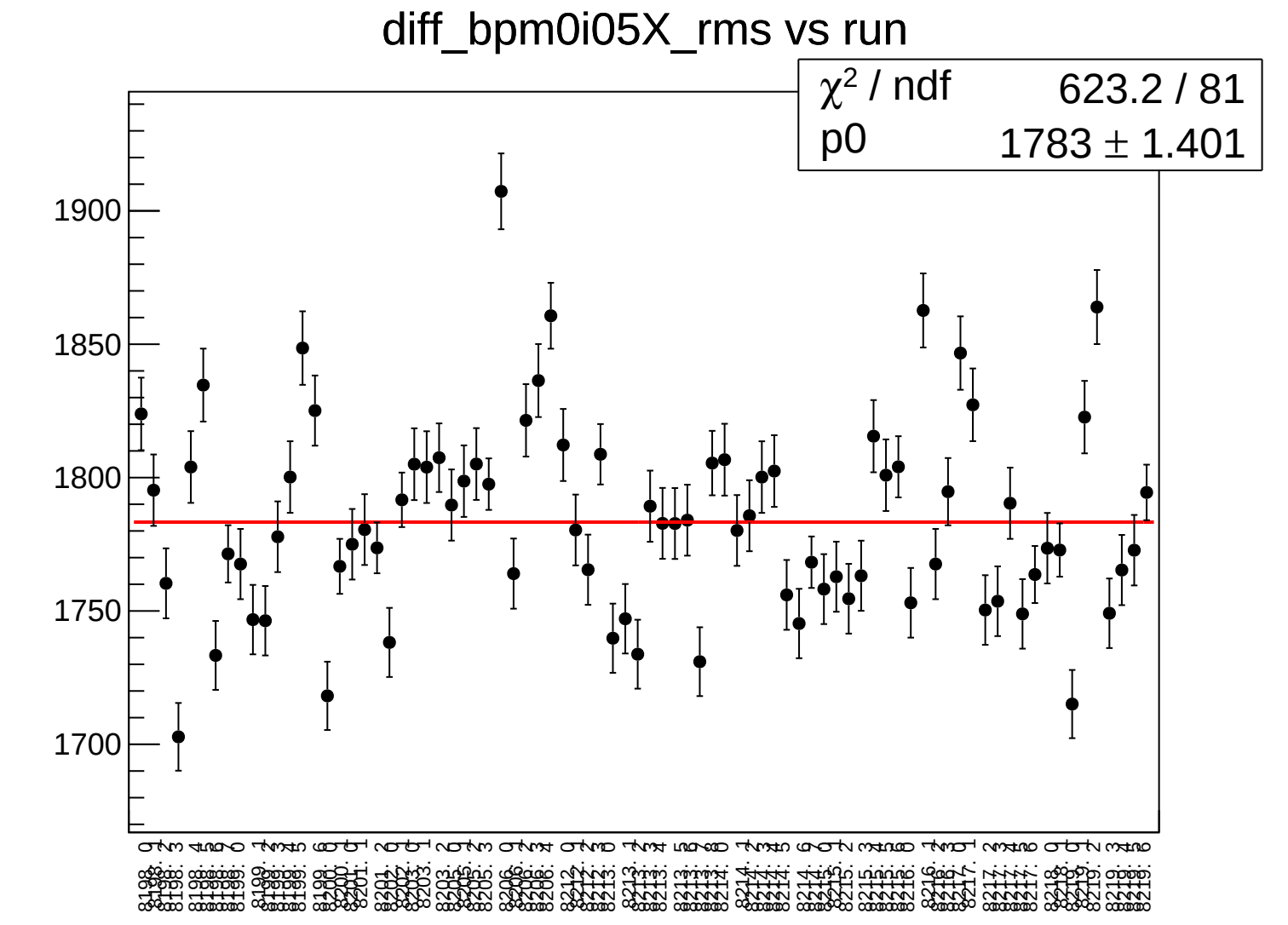

diff_bpm0i02aY_mean vs run
χ² / ndf 237.6 / 81
p0 52.19 ± 1.976
pull
Entries 82
Mean 1127
Std Dev 0

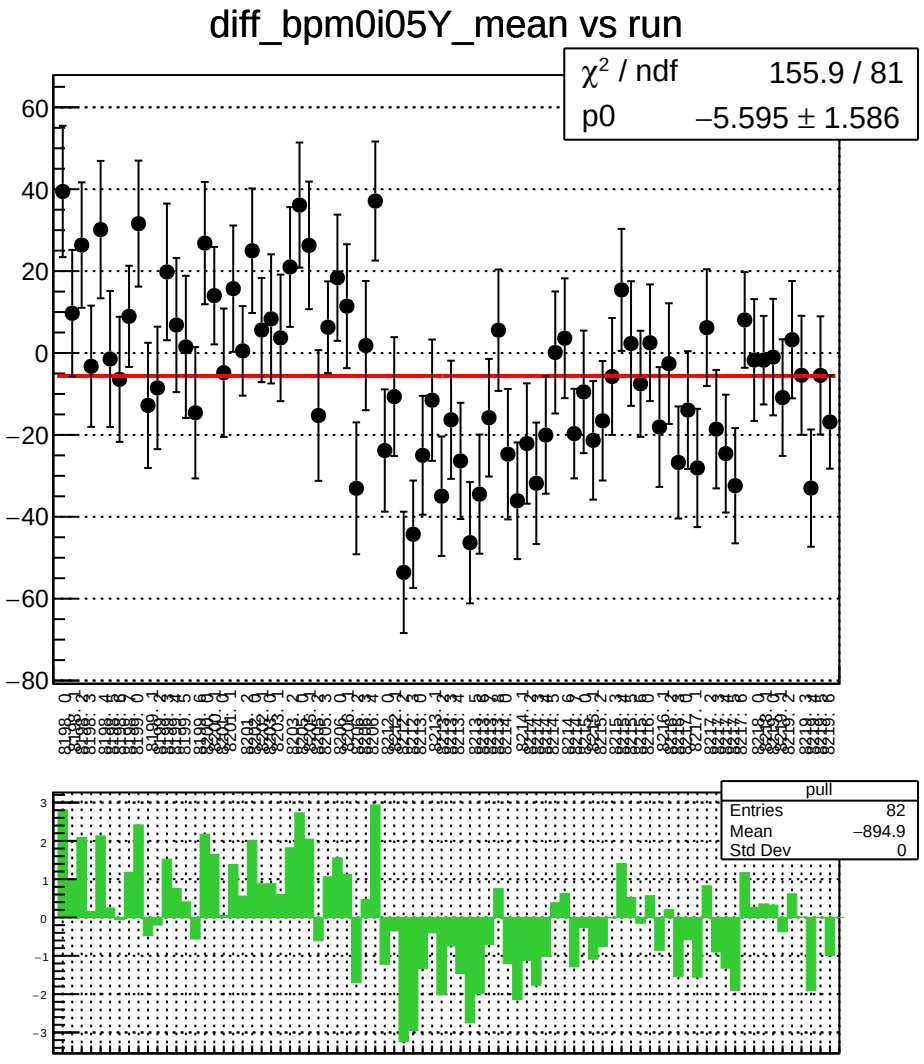

pull1D
Entries 82
Mean 0.02509
Std Dev 1.702

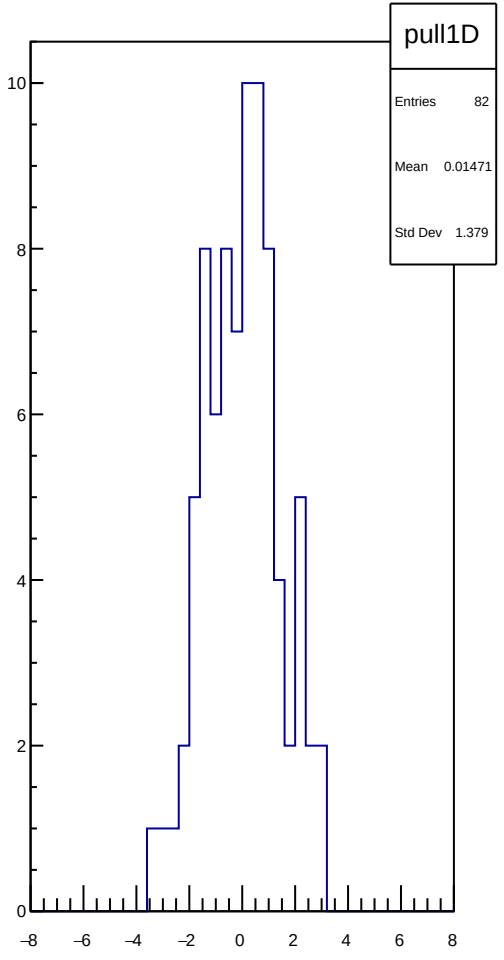

diff_bpm0i02aY_rms vs run
χ² / ndf 539 / 81
p0 1779 ± 1.397
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

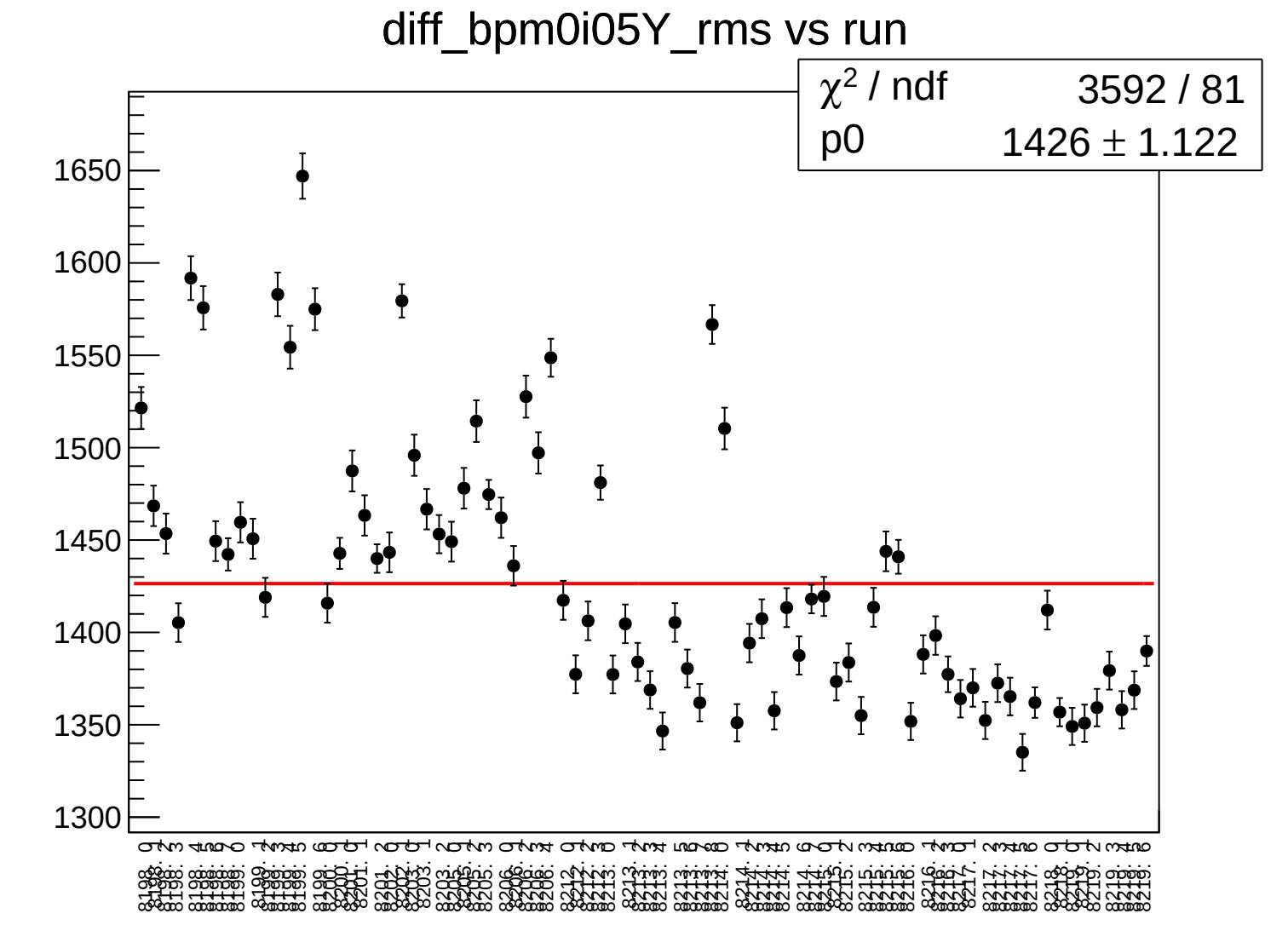

diff_bpm0i05X_mean vs run
χ² / ndf 248.3 / 81
p0 27.1 ± 1.981
pull
Entries 82
Mean 3020
Std Dev 0

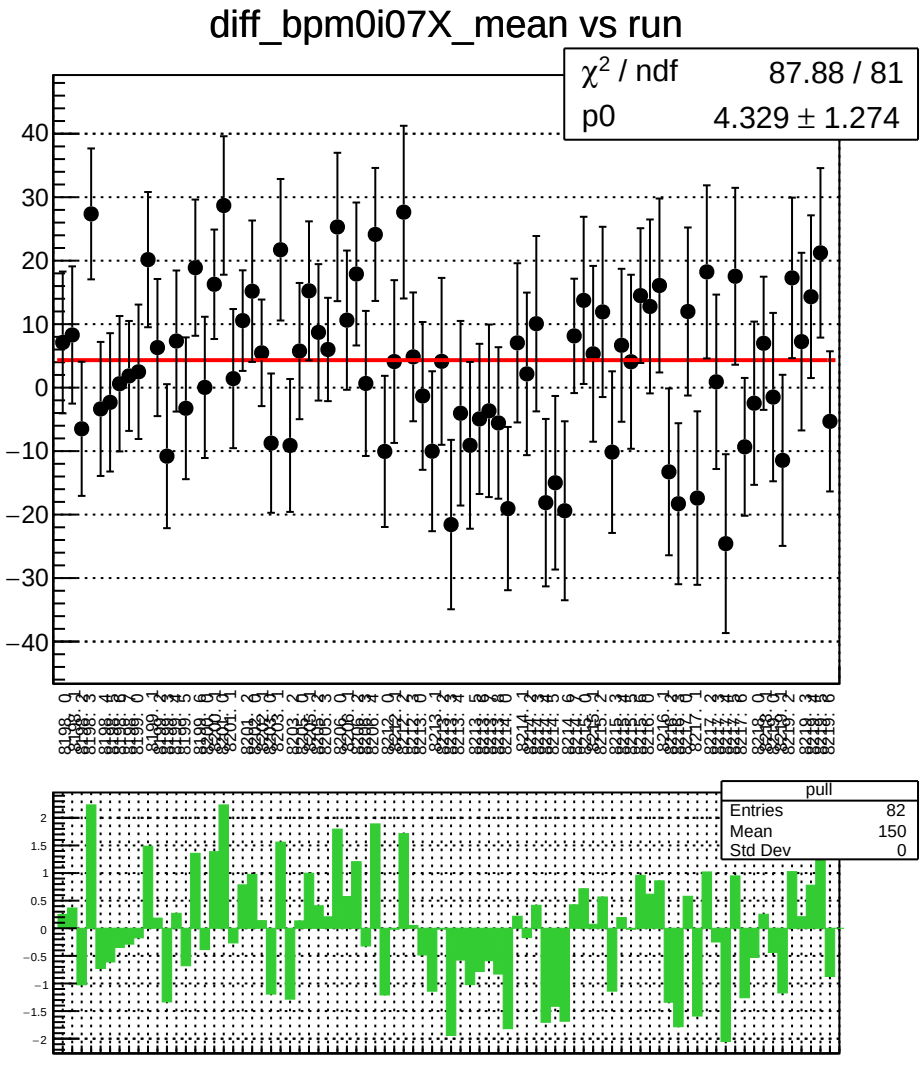

pull1D
Entries 82
Mean −0.01011
Std Dev 1.74

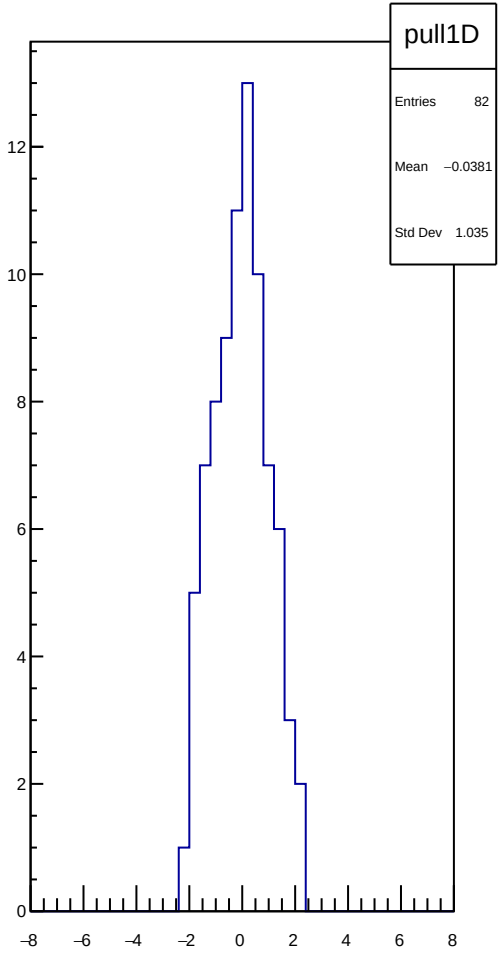

diff_bpm0i05X_rms vs run
χ² / ndf 623.2 / 81
p0 1783 ± 1.401
1900
1850
1800
1750
1700

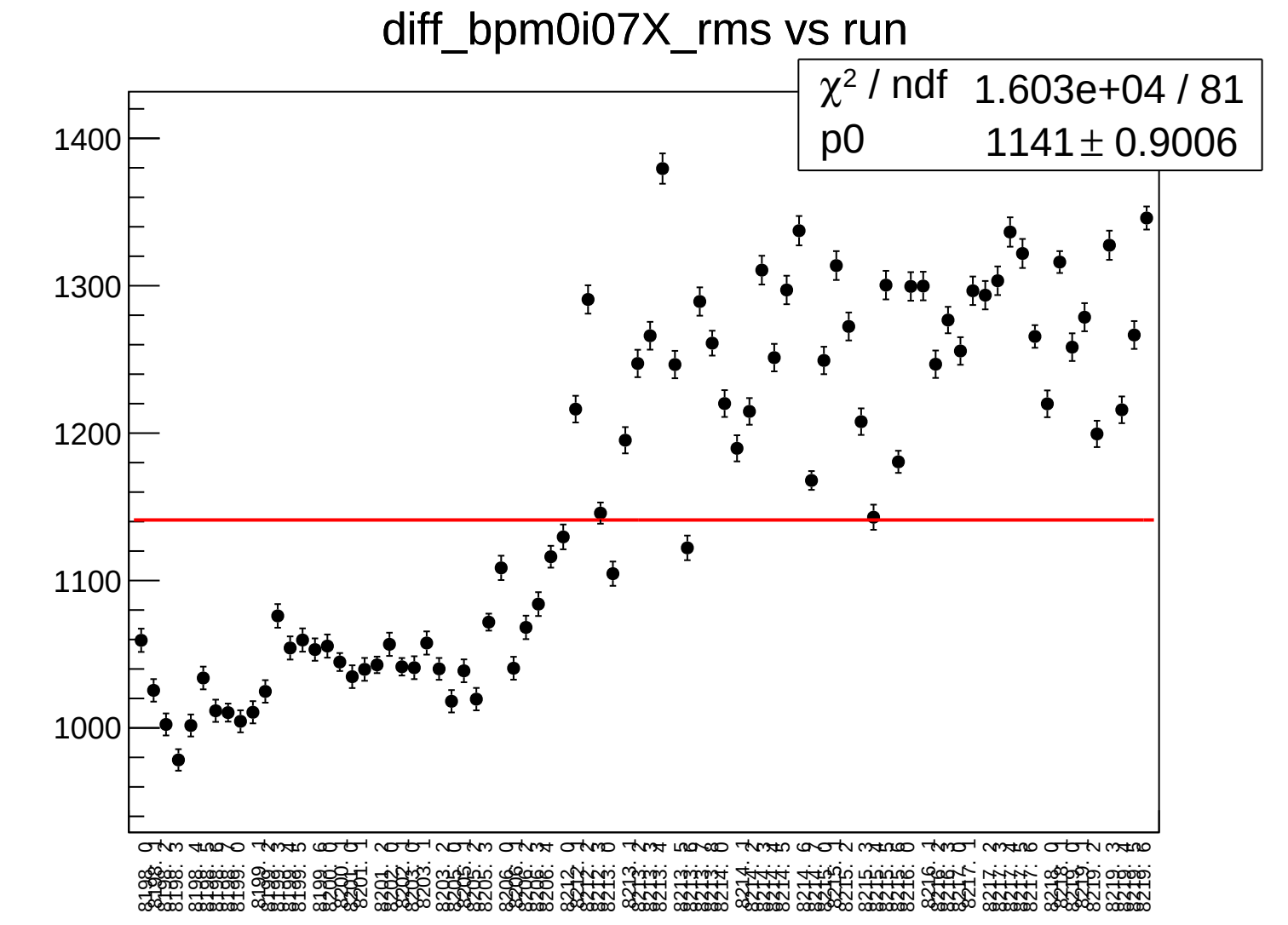

diff_bpm0i05Y_mean vs run
χ² / ndf 155.9 / 81
p0 −5.595 ± 1.586
pull
Entries 82
Mean −894.9
Std Dev 0

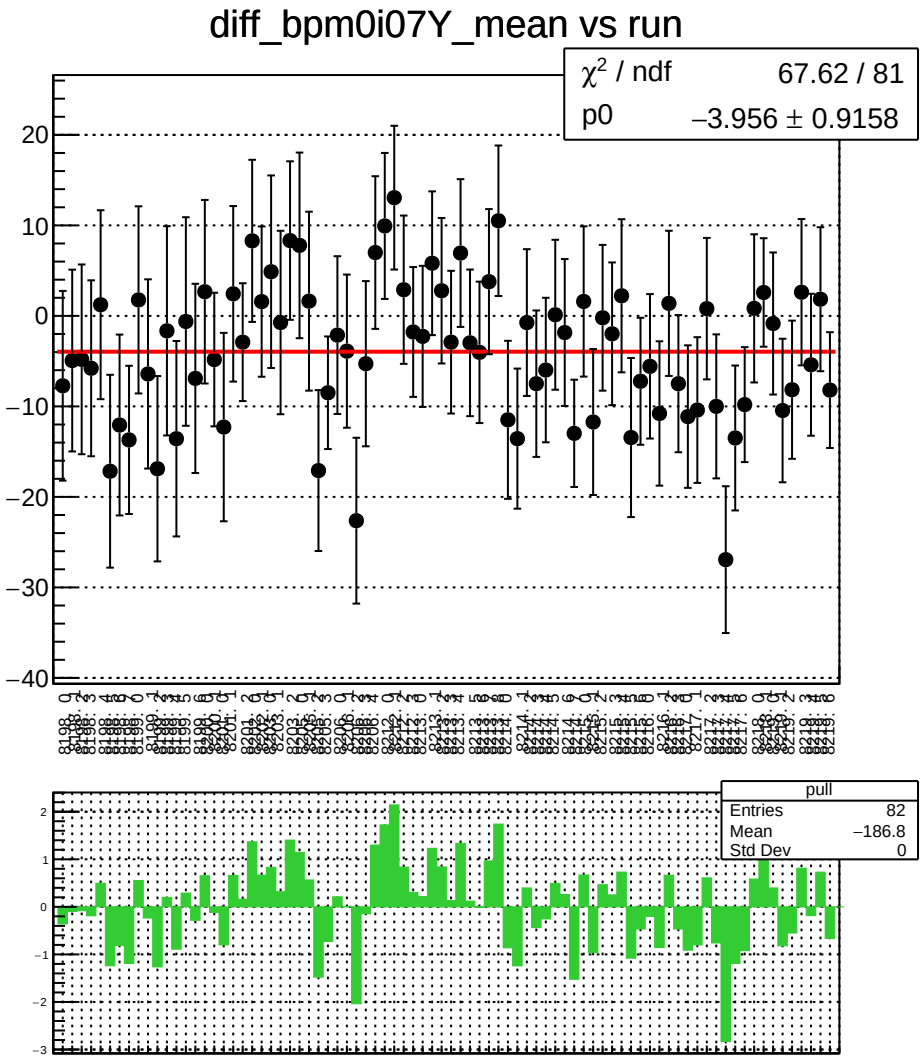

pull1D
Entries 82
Mean 0.01471
Std Dev 1.379

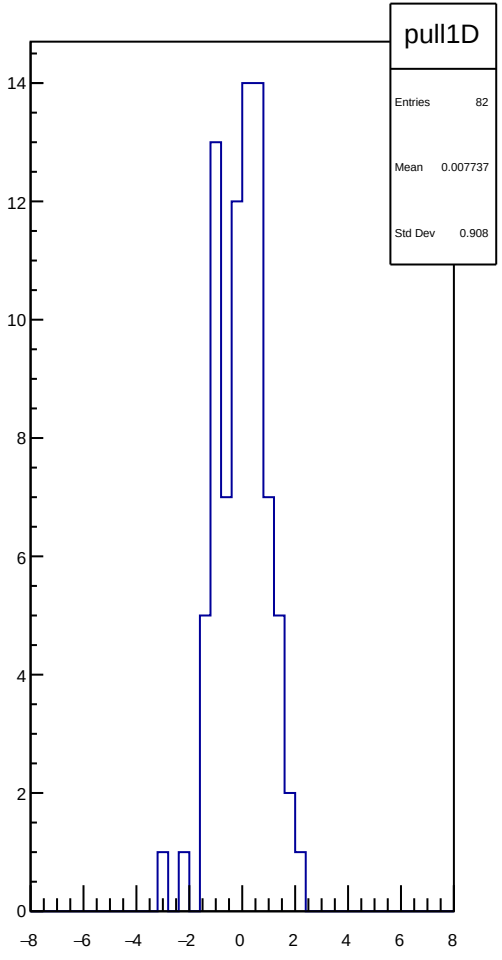

diff_bpm0i05Y_rms vs run
$\chi^2$ / ndf 3592 / 81
p0 1426 ± 1.122
1650
1600
1550
1500
1450
1400
1350
1300

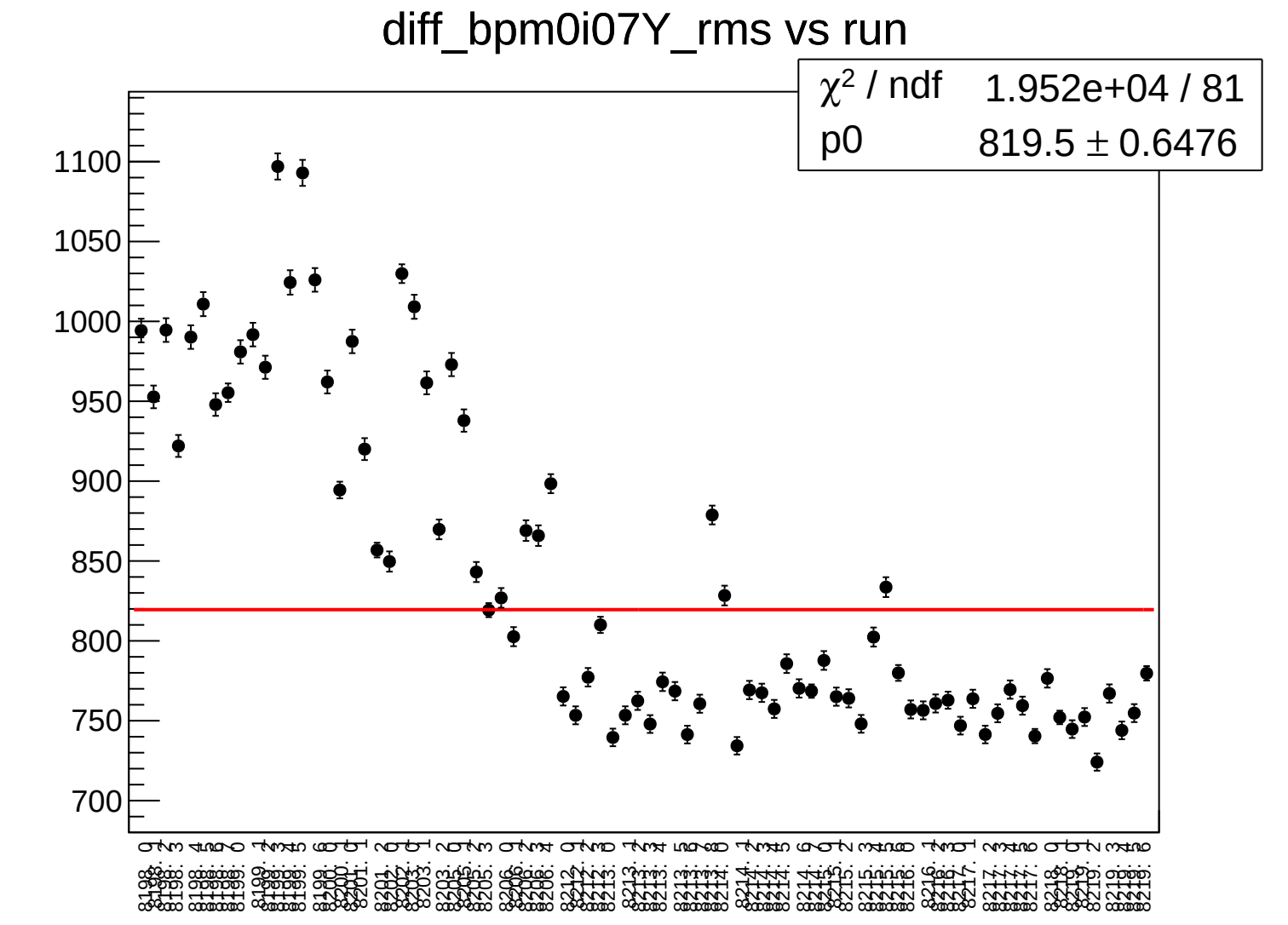

diff_bpm0i07X_mean vs run
χ² / ndf 87.88 / 81
p0 4.329 ± 1.274
pull
Entries 82
Mean 150
Std Dev 0

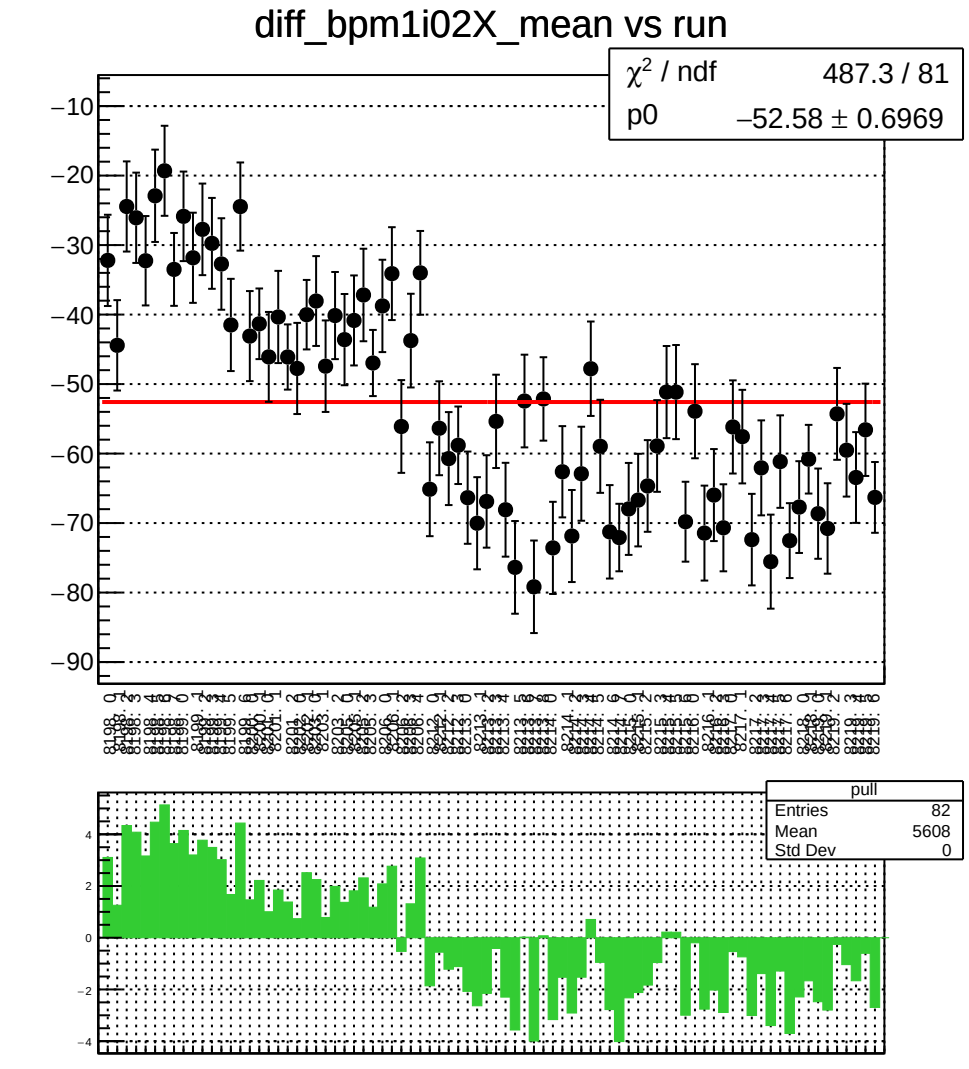

pull1D
Entries 82
Mean −0.0381
Std Dev 1.035

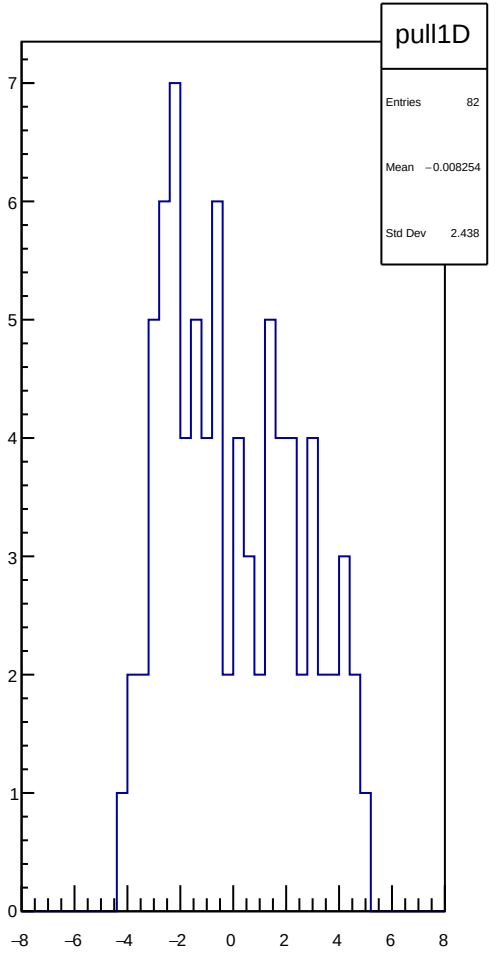

diff_bpm0i07X_rms vs run
χ² / ndf 1.603e+04 / 81
p0 1141 ± 0.9006
1400
1300
1200
1100
1000

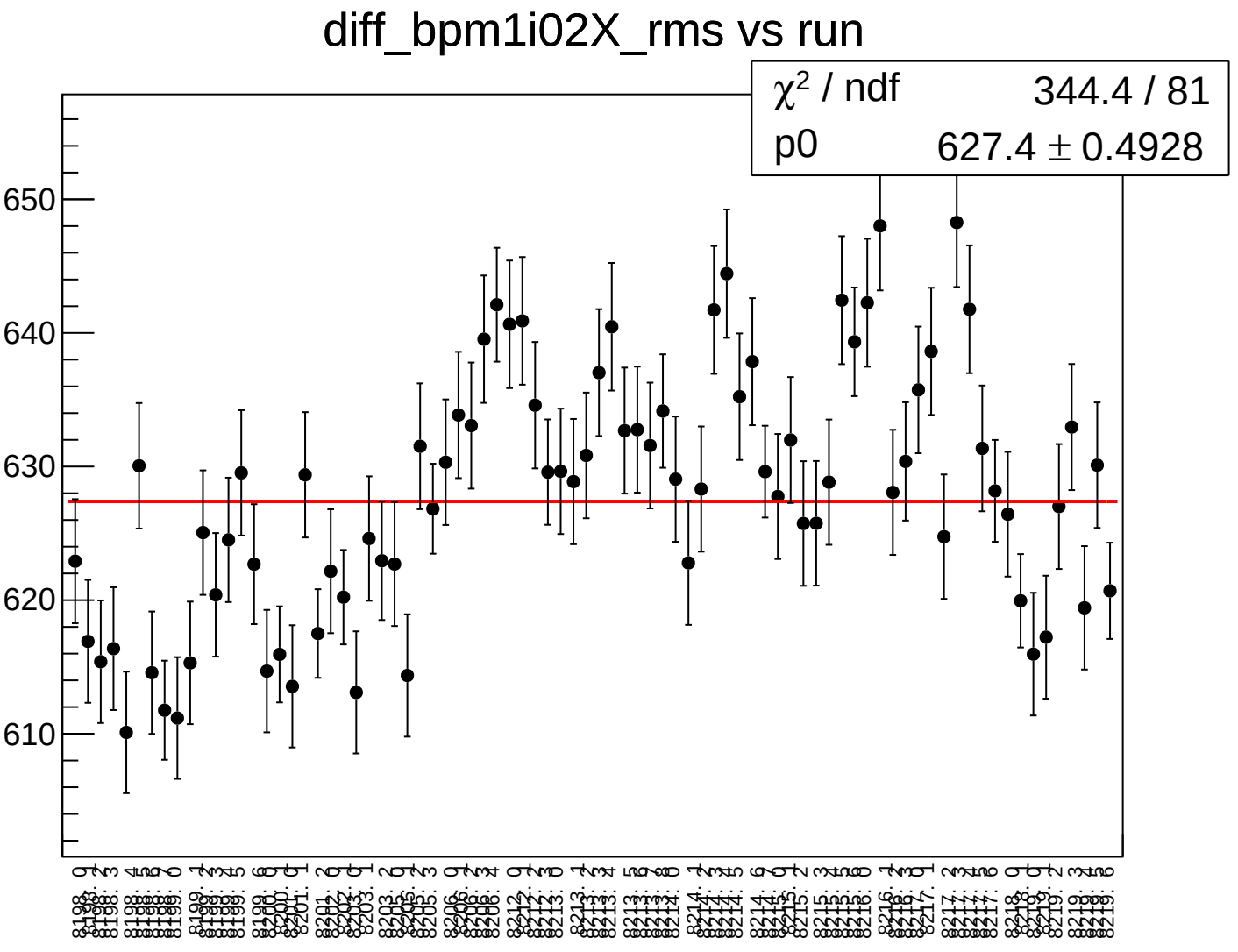

diff_bpm0i07Y_mean vs run
χ² / ndf 67.62 / 81
p0 −3.956 ± 0.9158
pull
Entries 82
Mean −186.8
Std Dev 0

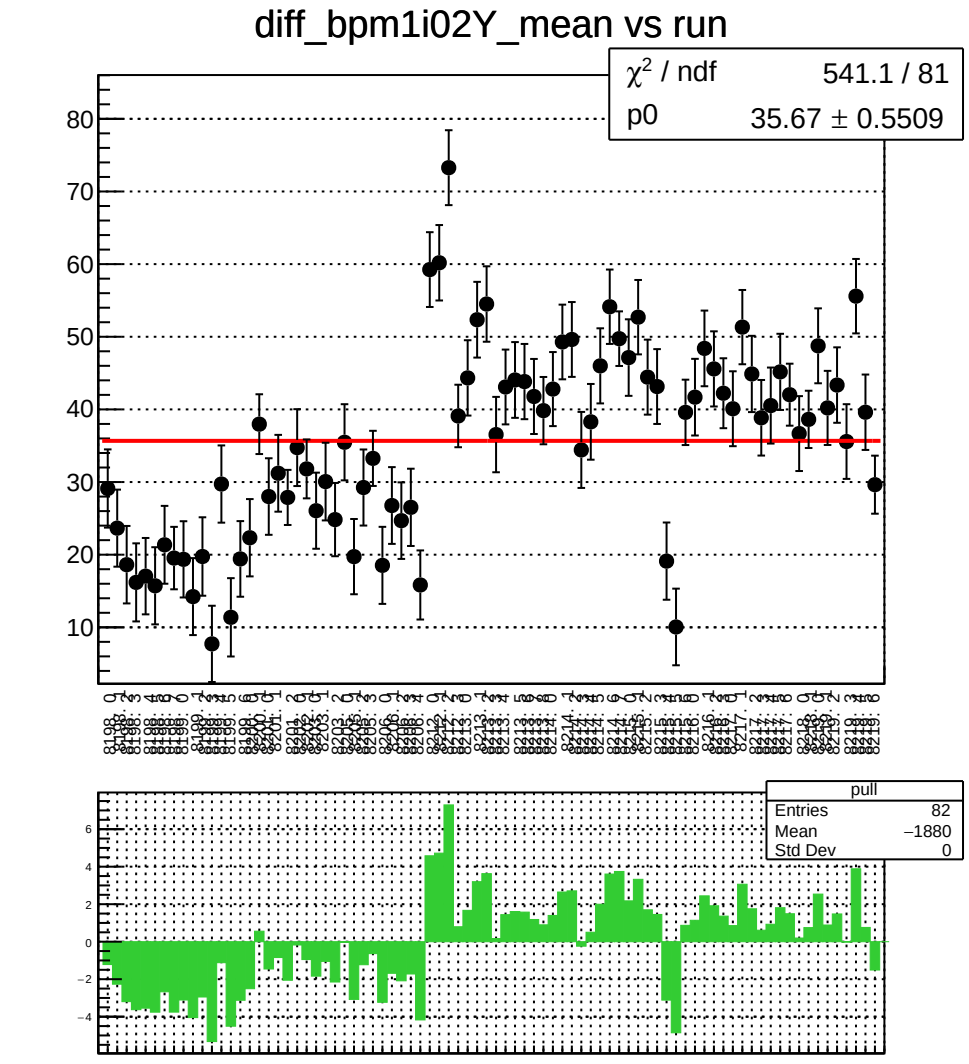

pull1D
Entries 82
Mean 0.007737
Std Dev 0.908

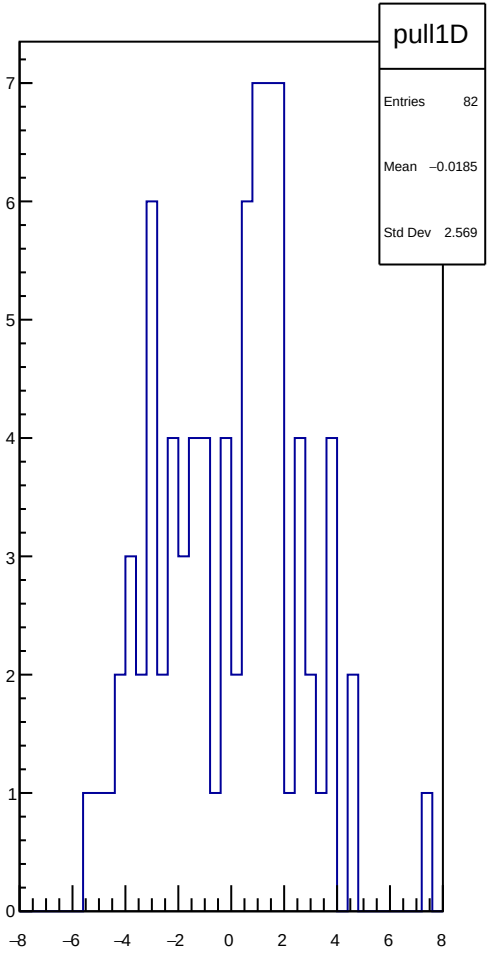

diff_bpm0i07Y_rms vs run
χ² / ndf 1.952e+04 / 81
p0 819.5 ± 0.6476
1100
1050
1000
950
900
850
800
750
700

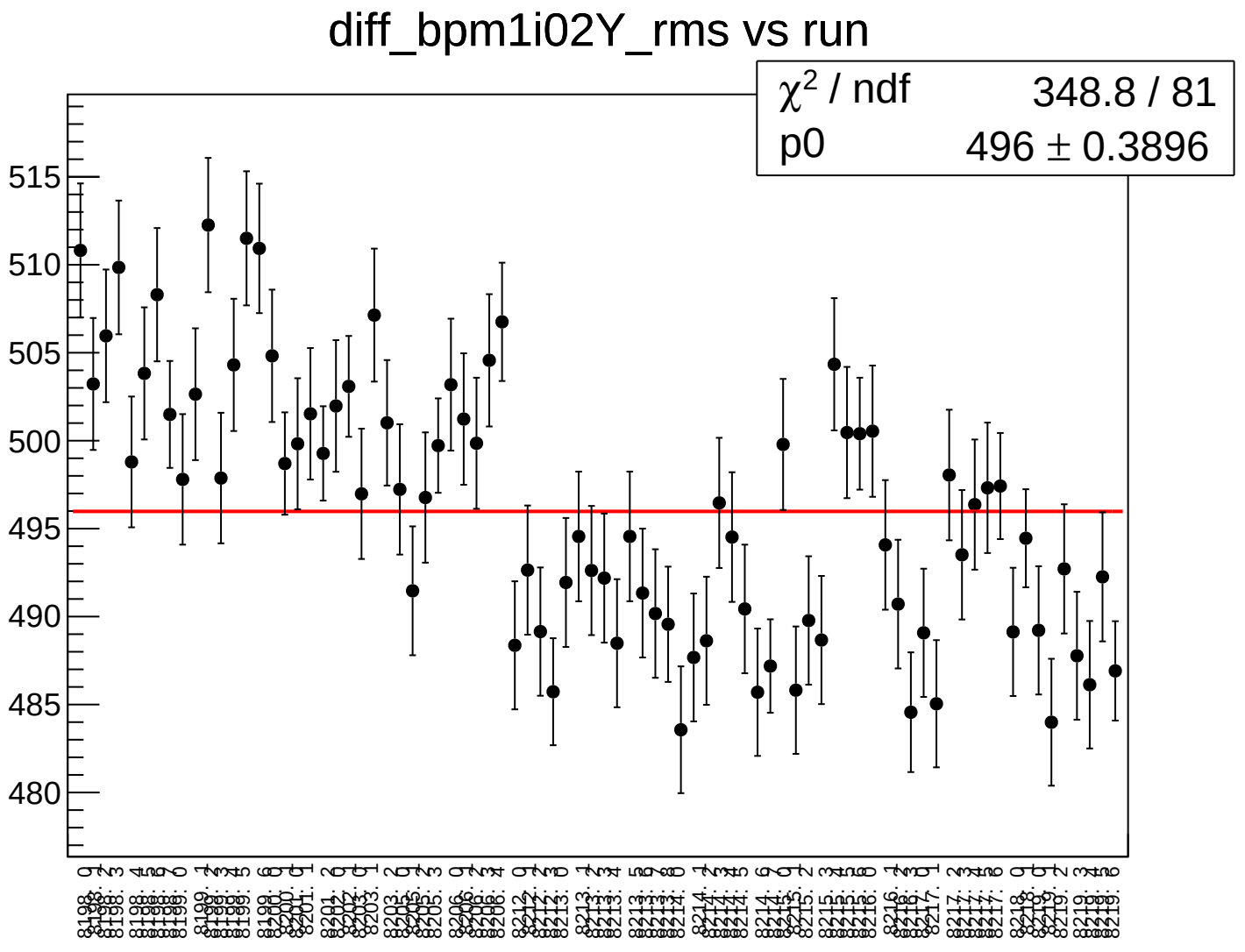

diff_bpm1i02X_mean vs run
χ² / ndf 487.3 / 81
p0 −52.58 ± 0.6969
pull
Entries 82
Mean 5608
Std Dev 0

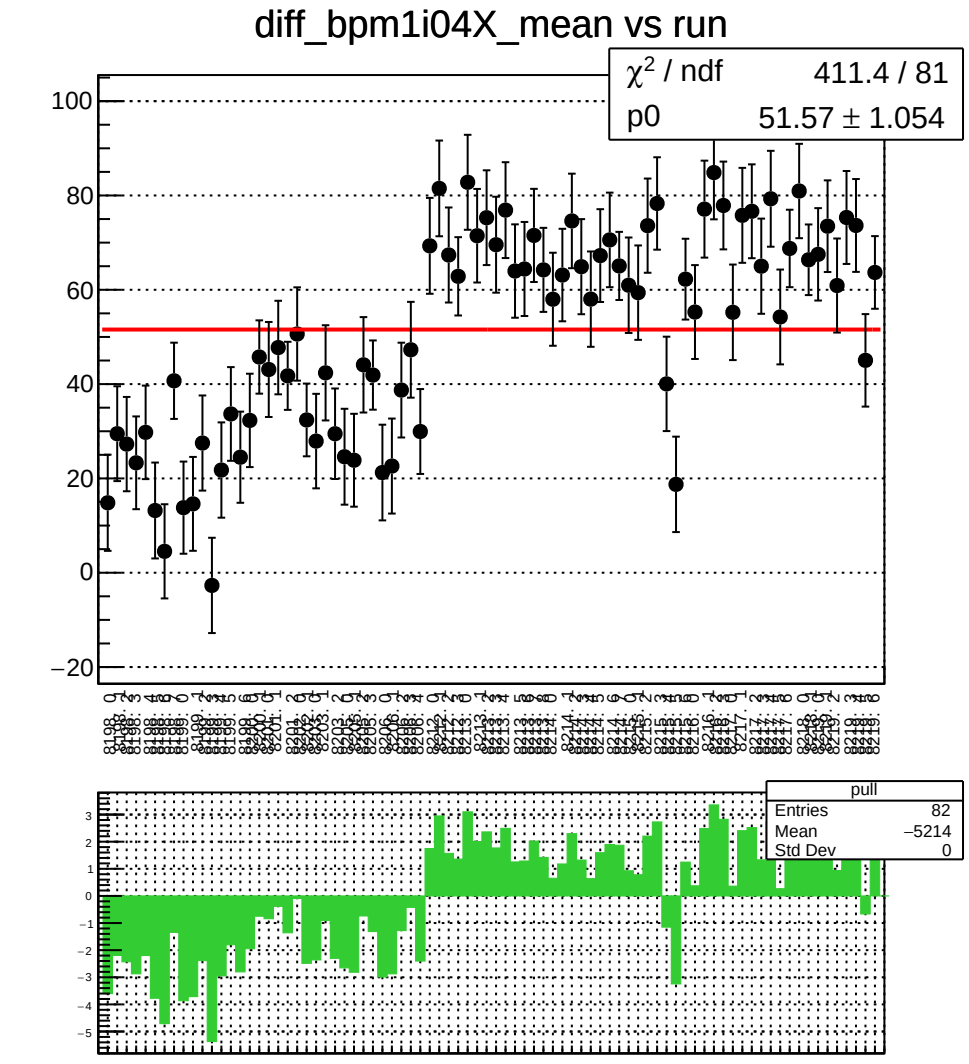

pull1D
Entries 82
Mean −0.008254
Std Dev 2.438

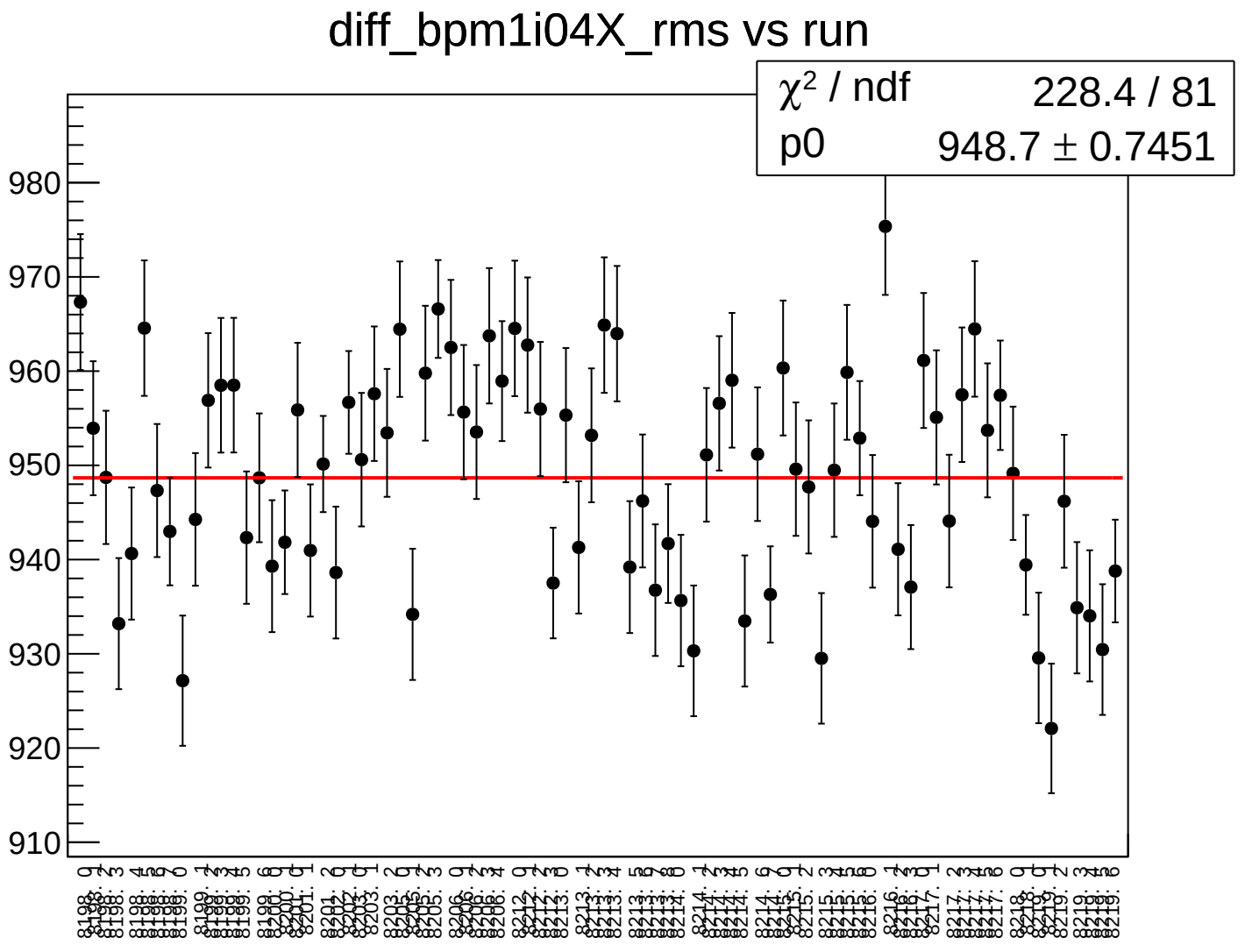

diff_bpm1i02X_rms vs run
χ² / ndf 344.4 / 81
p0 627.4 ± 0.4928
650
640
630
620
610

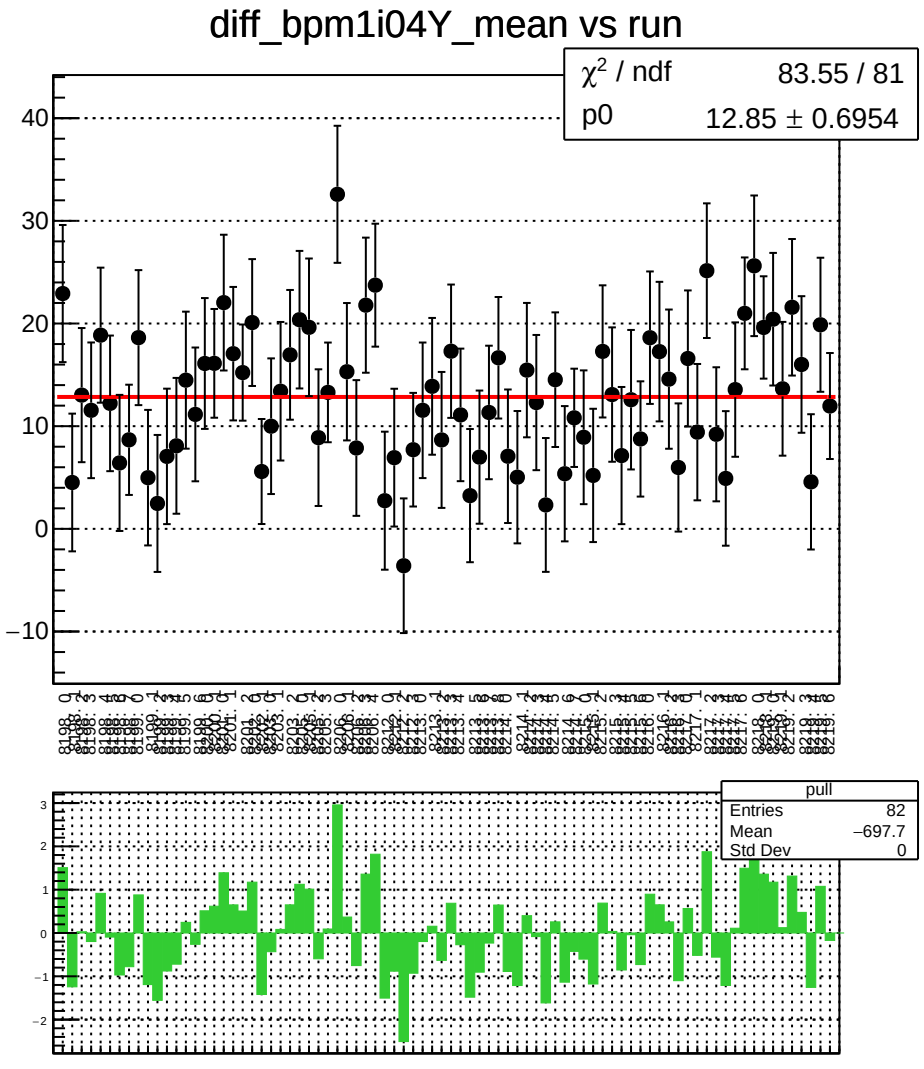

diff_bpm1i02Y_mean vs run
χ² / ndf 541.1 / 81
p0 35.67 ± 0.5509
pull
Entries 82
Mean −1880
Std Dev 0

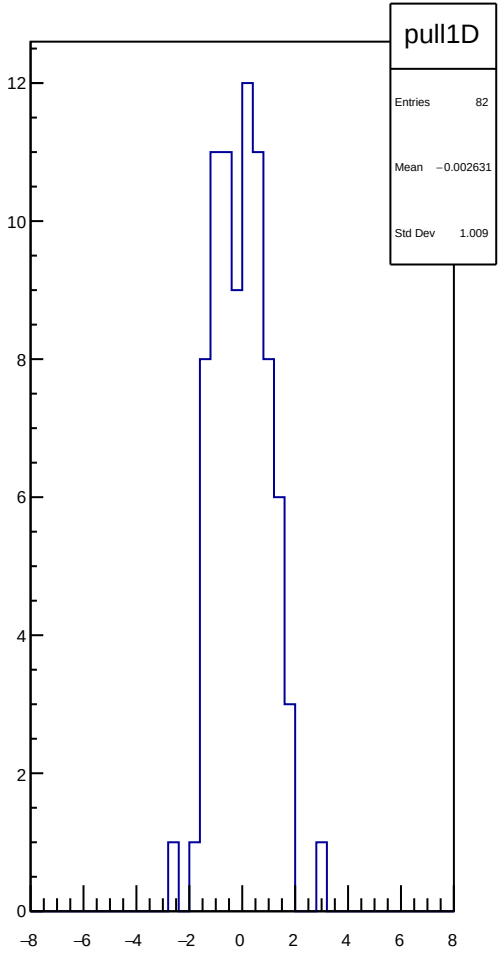

pull1D
Entries 82
Mean −0.0185
Std Dev 2.569

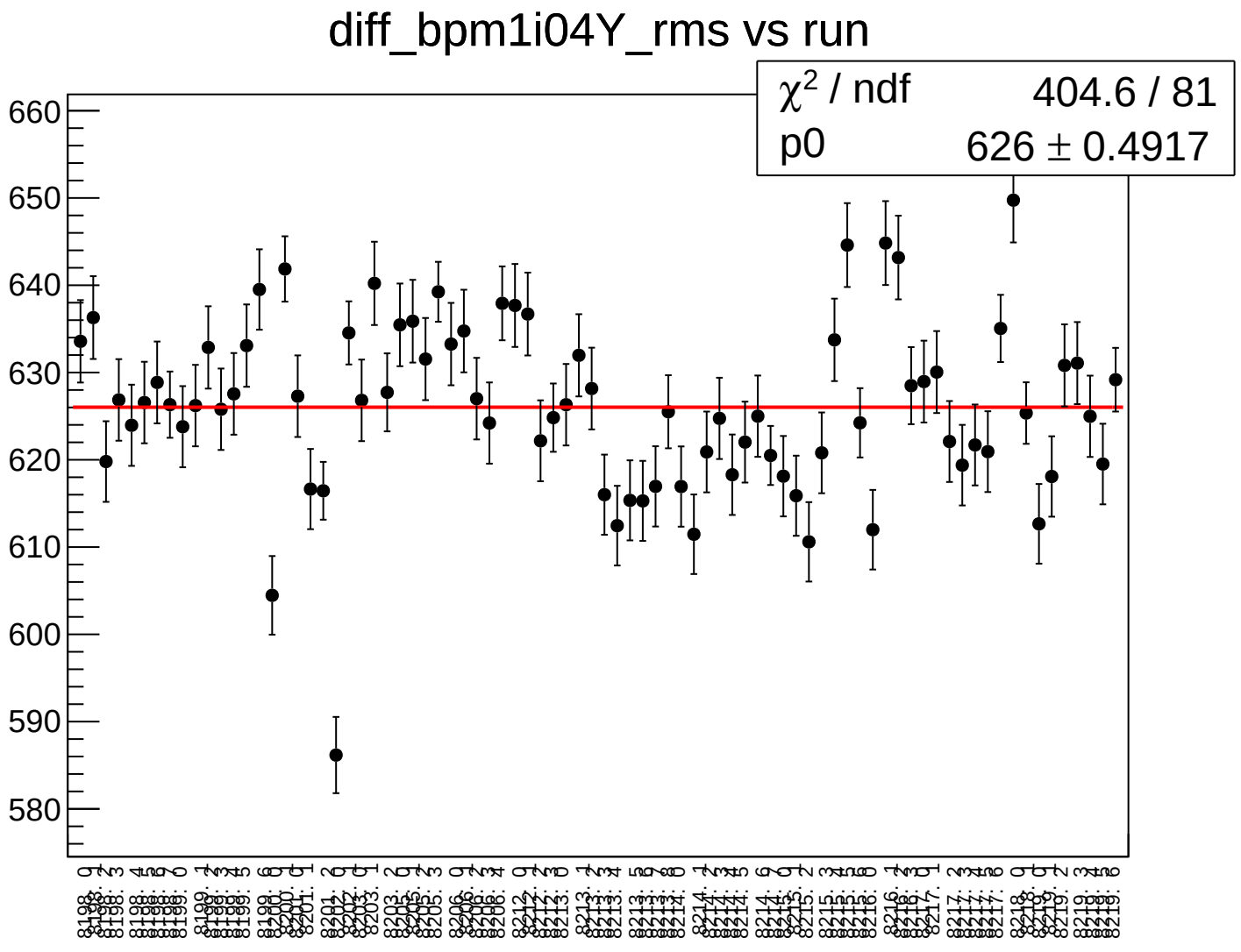

diff_bpm1i02Y_rms vs run
χ² / ndf 348.8 / 81
p0 496 ± 0.3896
515
510
505
500
495
490
485
480

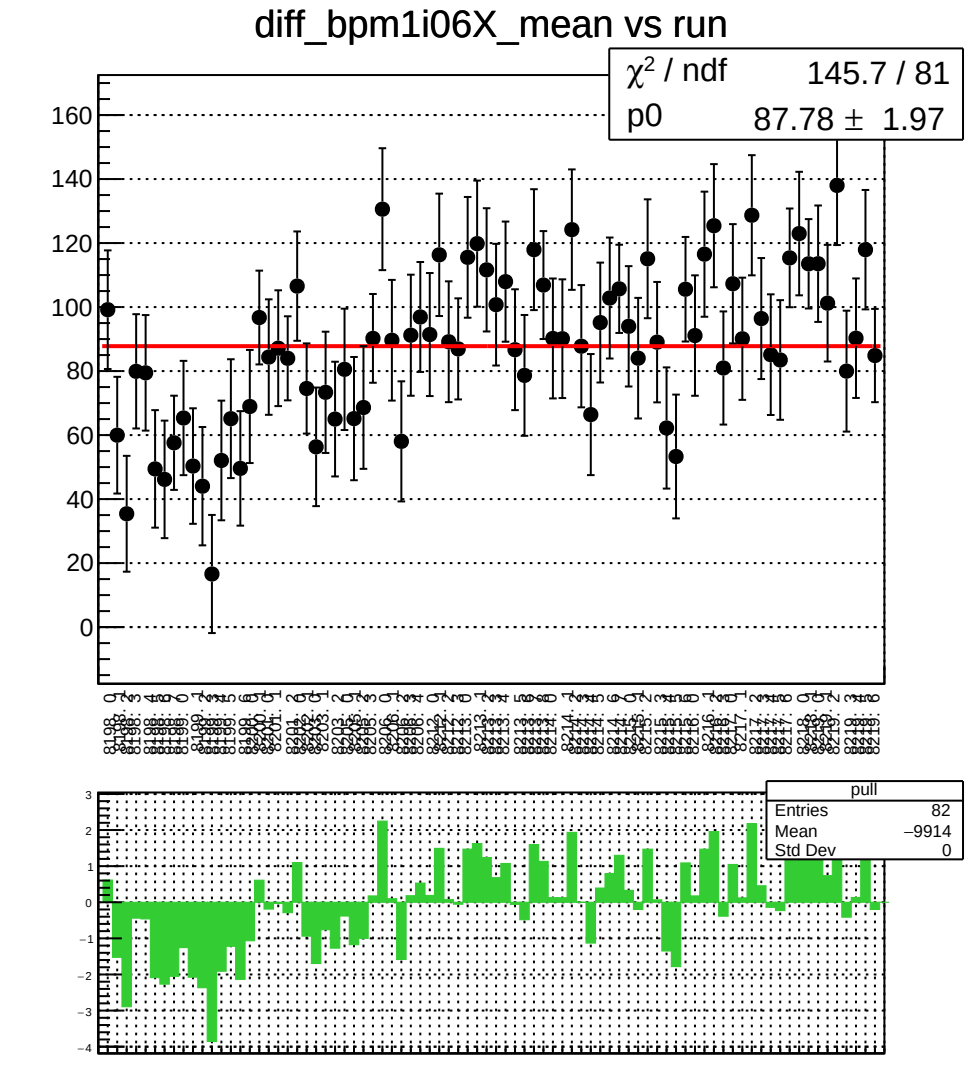

diff_bpm1i04X_mean vs run
χ² / ndf 411.4 / 81
p0 51.57 ± 1.054
pull
Entries 82
Mean −5214
Std Dev 0
pull1D
Entries 82
Mean −0.007561
Std Dev 2.24

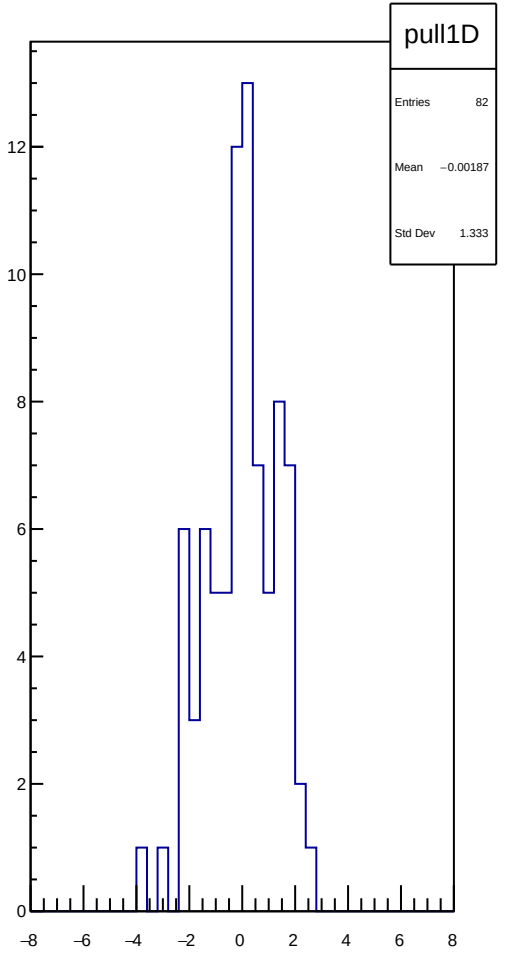

diff_bpm1i04X_rms vs run
χ² / ndf 228.4 / 81
p0 948.7 ± 0.7451
980
970
960
950
940
930
920
910

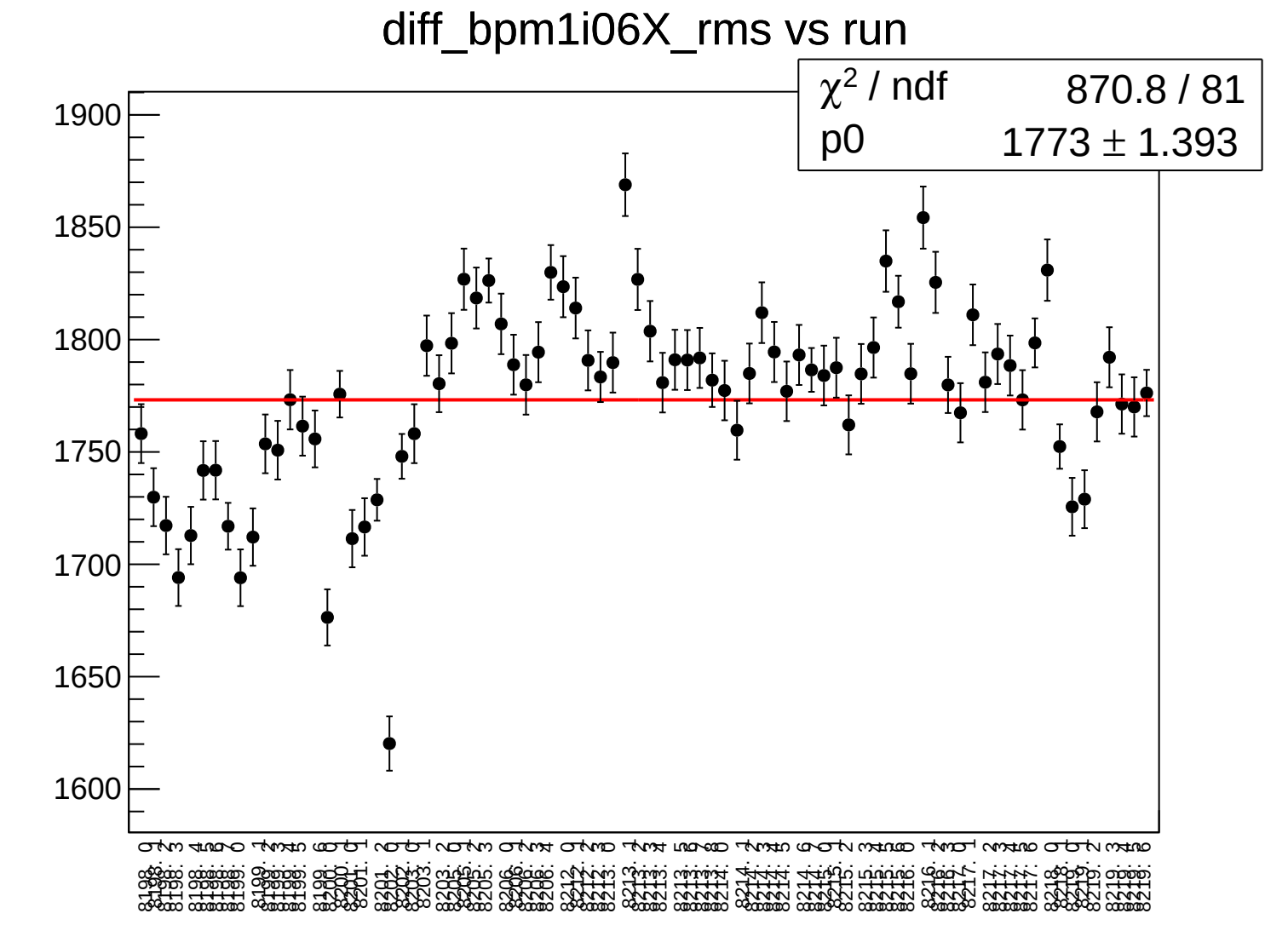

diff_bpm1i04Y_mean vs run
χ² / ndf 83.55 / 81
p0 12.85 ± 0.6954
pull
Entries 82
Mean −697.7
Std Dev 0

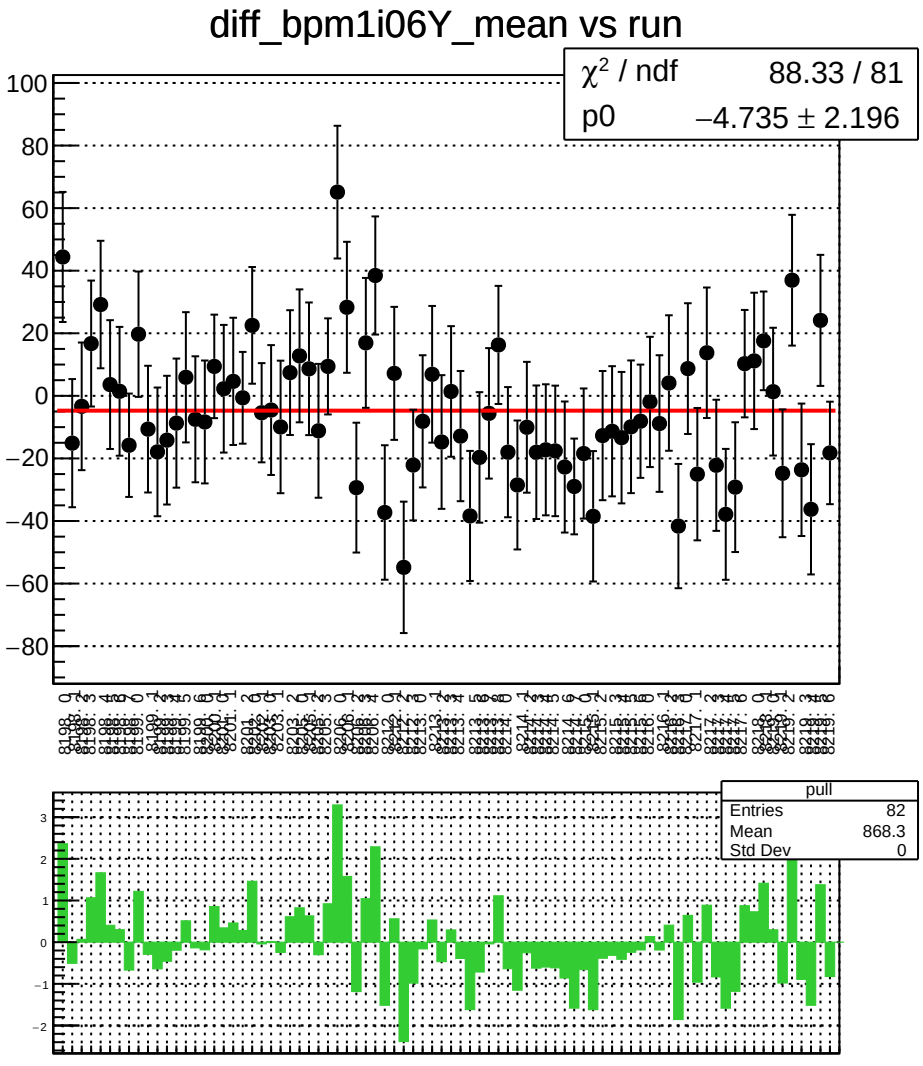

pull1D
Entries 82
Mean −0.002631
Std Dev 1.009

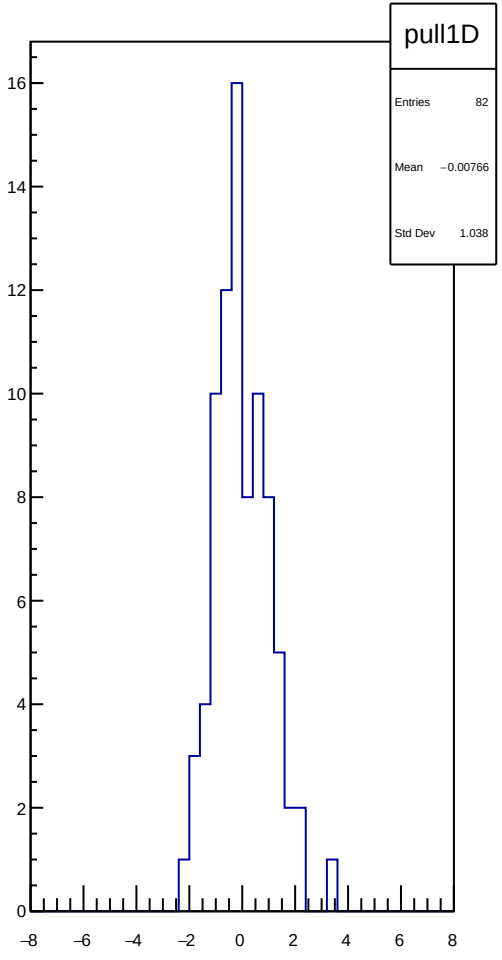

diff_bpm1i04Y_rms vs run
χ² / ndf 404.6 / 81
p0 626 ± 0.4917
660
650
640
630
620
610
600
590
580

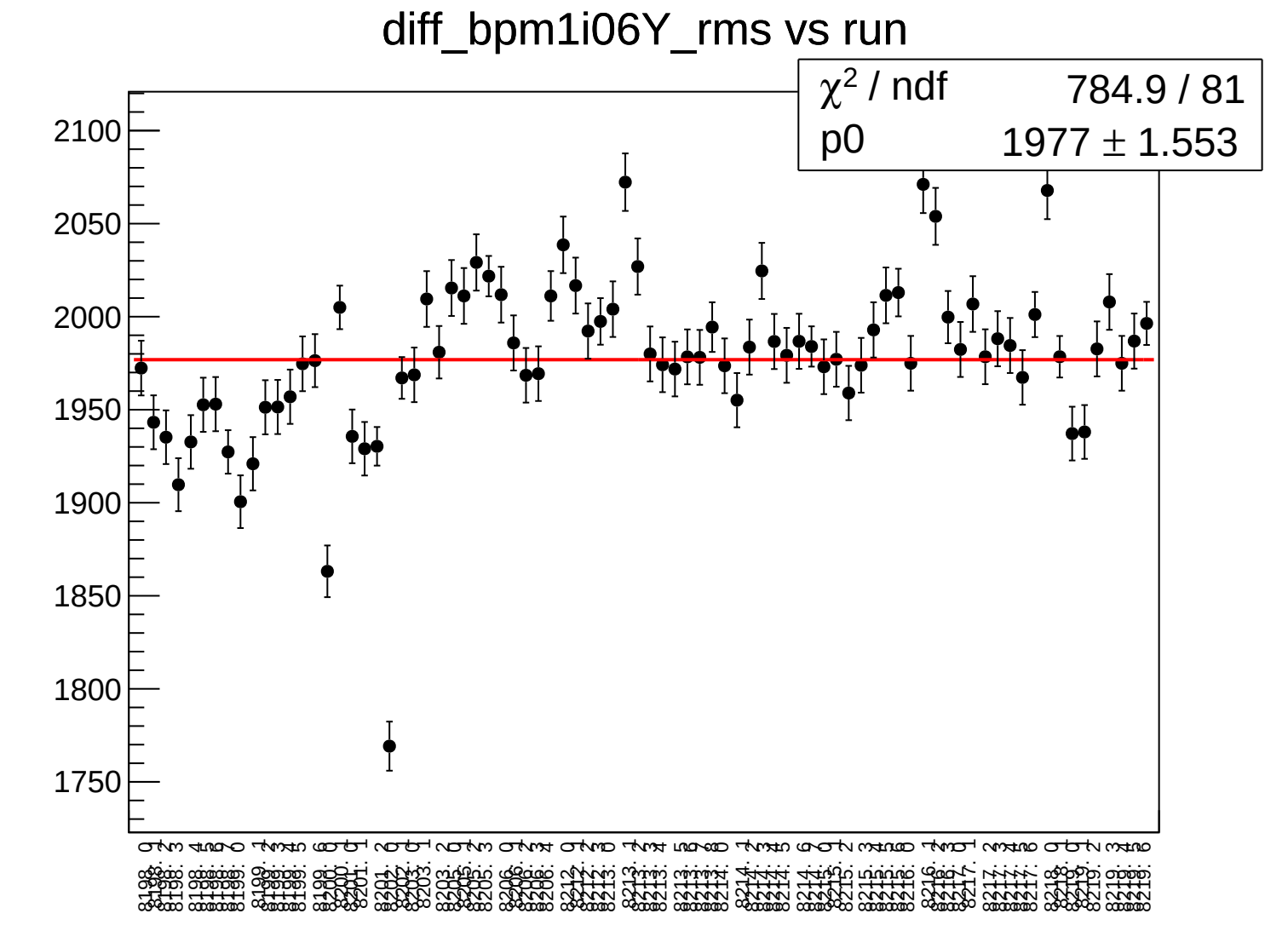

diff_bpm1i06X_mean vs run
χ² / ndf 145.7 / 81
p0 87.78 ± 1.97
pull
Entries 82
Mean −9914
Std Dev 0

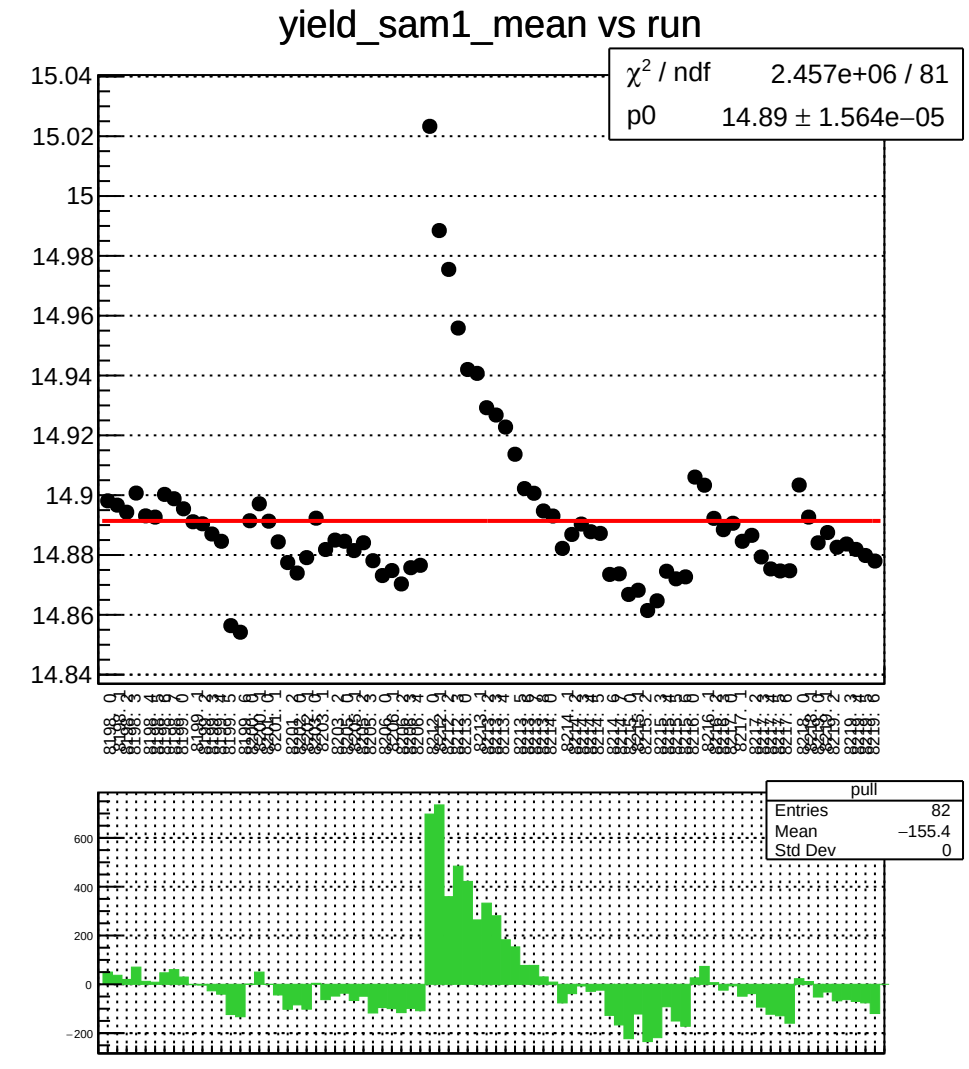

pull1D
Entries 82
Mean −0.00187
Std Dev 1.333

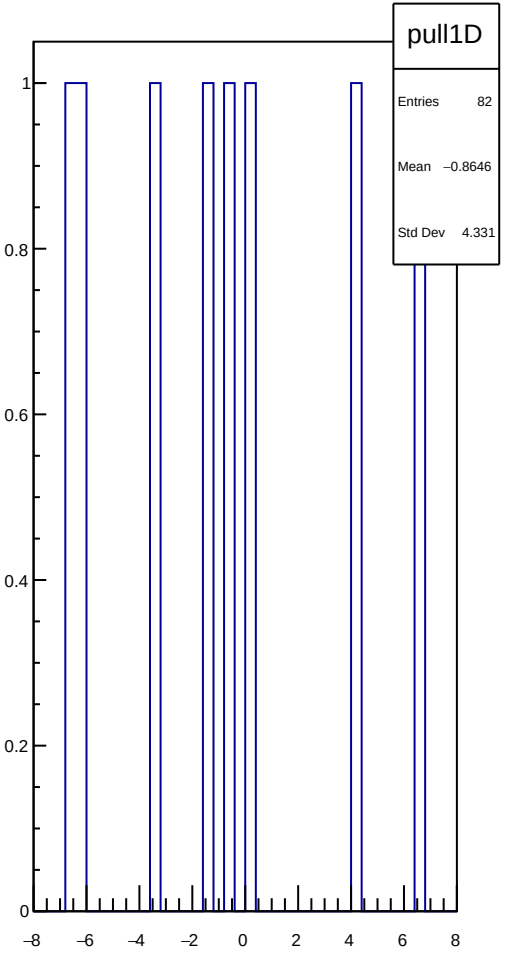

diff_bpm1i06X_rms vs run
χ² / ndf 870.8 / 81
p0 1773 ± 1.393
1900
1850
1800
1750
1700
1650
1600

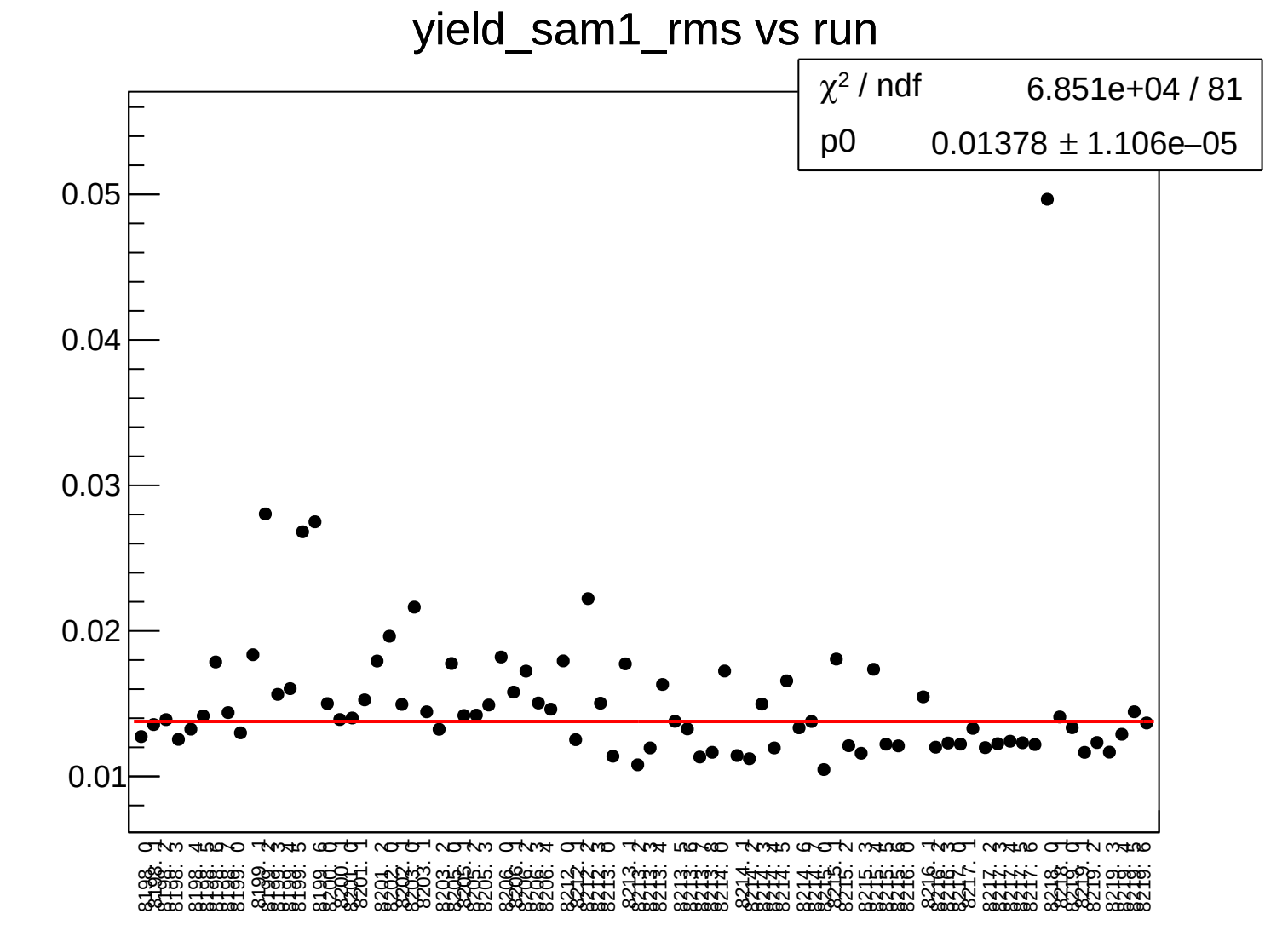

diff_bpm1i06Y_mean vs run
χ² / ndf 88.33 / 81
p0 −4.735 ± 2.196
pull
Entries 82
Mean 868.3
Std Dev 0

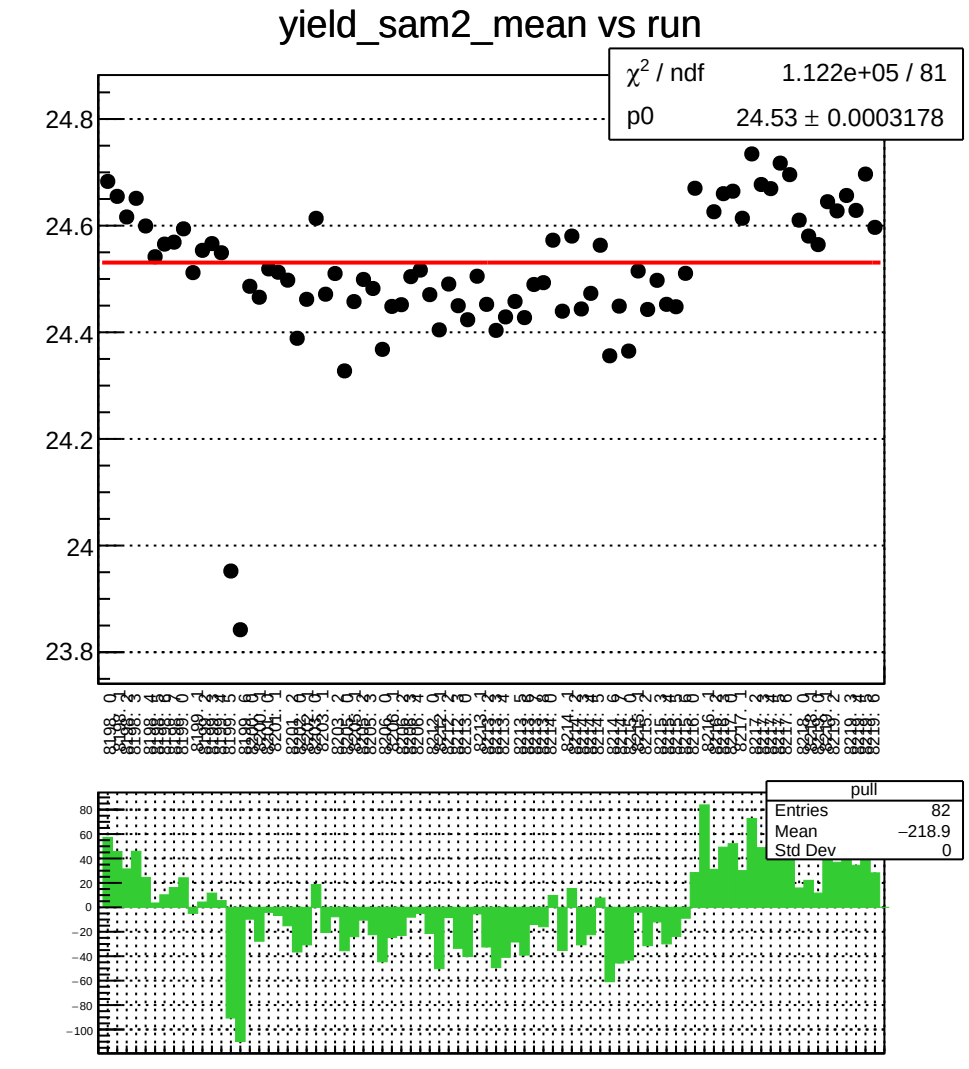

pull1D
Entries 82
Mean −0.00766
Std Dev 1.038

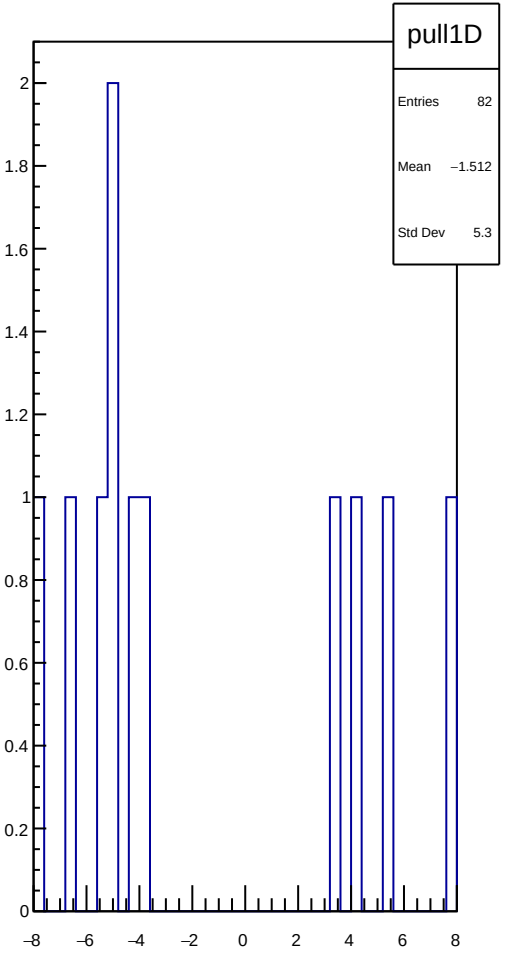

diff_bpm1i06Y_rms vs run
$\chi^2$ / ndf 784.9 / 81
p0 1977 ± 1.553
2100
2050
2000
1950
1900
1850
1800
1750

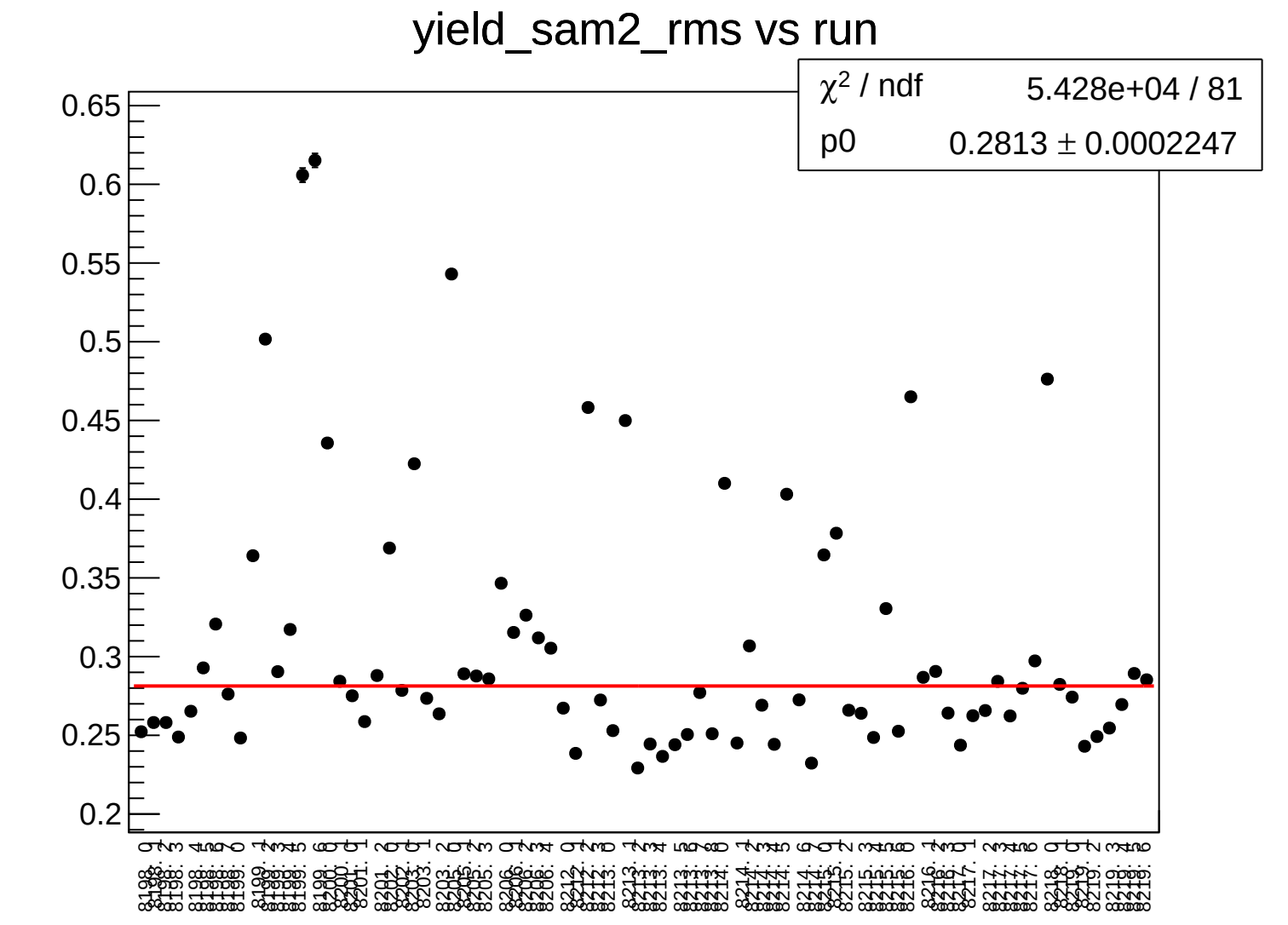

yield_sam1_mean vs run
χ² / ndf 2.457e+06 / 81
p0 14.89 ± 1.564e−05
15.04
15.02
15
14.98
14.96
14.94
14.92
14.9
14.88
14.86
14.84
pull
Entries 82
Mean −155.4
Std Dev 0
600
400
200
0
−200

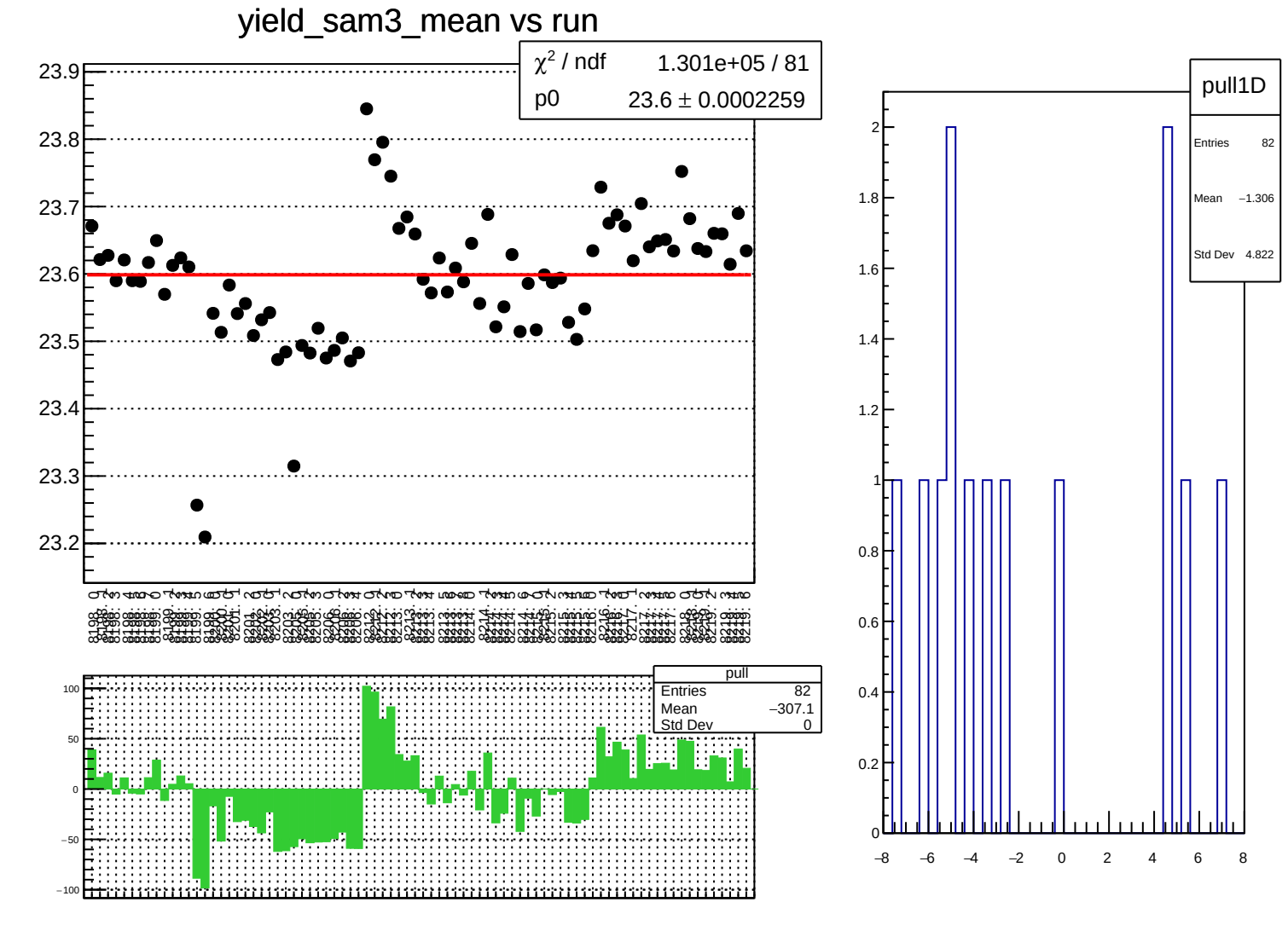

pull1D
Entries 82
Mean −0.8646
Std Dev 4.331
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

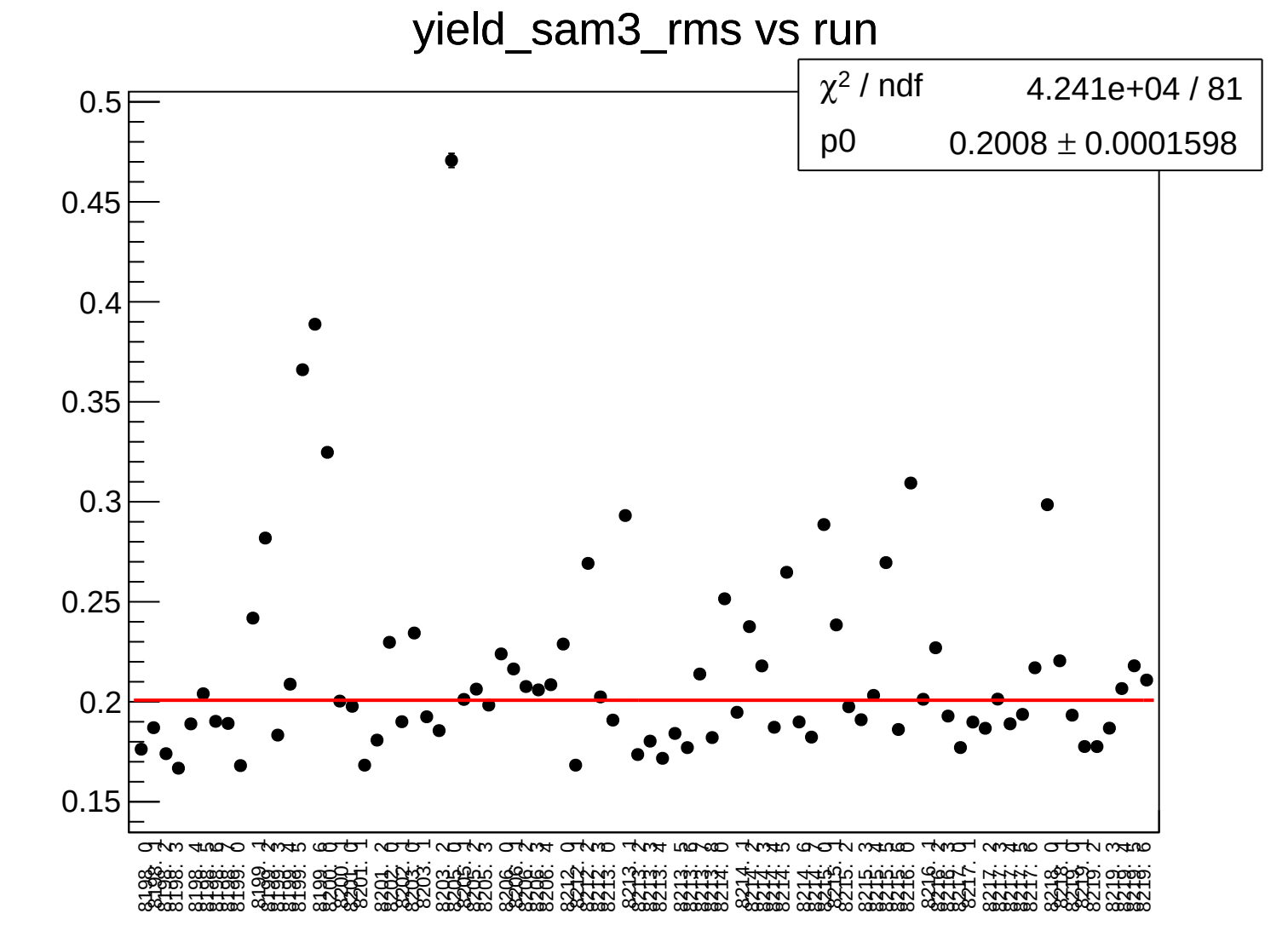

yield_sam1_rms vs run
χ² / ndf 6.851e+04 / 81
p0 0.01378 ± 1.106e−05
0.05
0.04
0.03
0.02
0.01

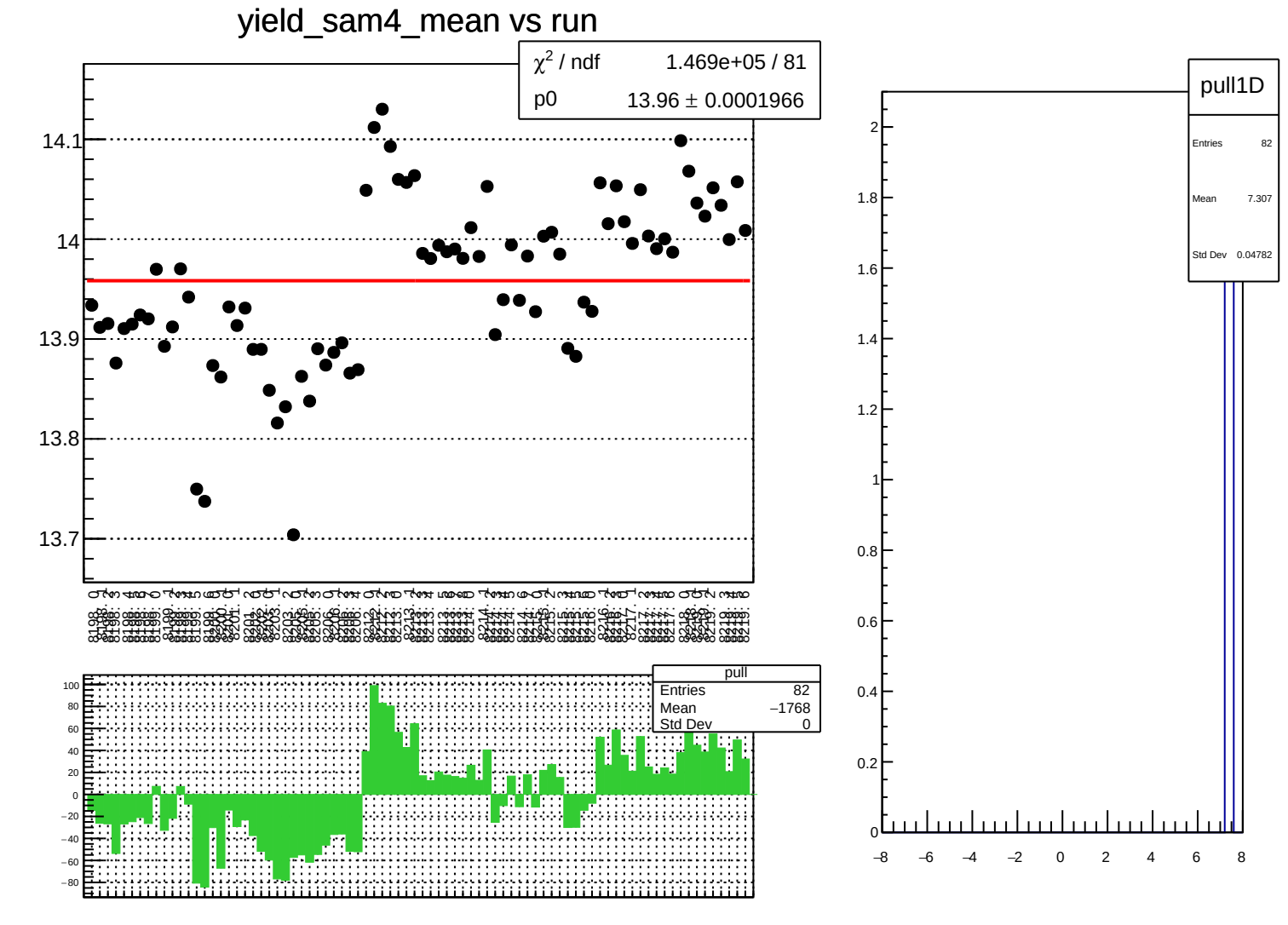

yield_sam2_mean vs run
χ² / ndf 1.122e+05 / 81
p0 24.53 ± 0.0003178
24.8
24.6
24.4
24.2
24
23.8
pull
Entries 82
Mean −218.9
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

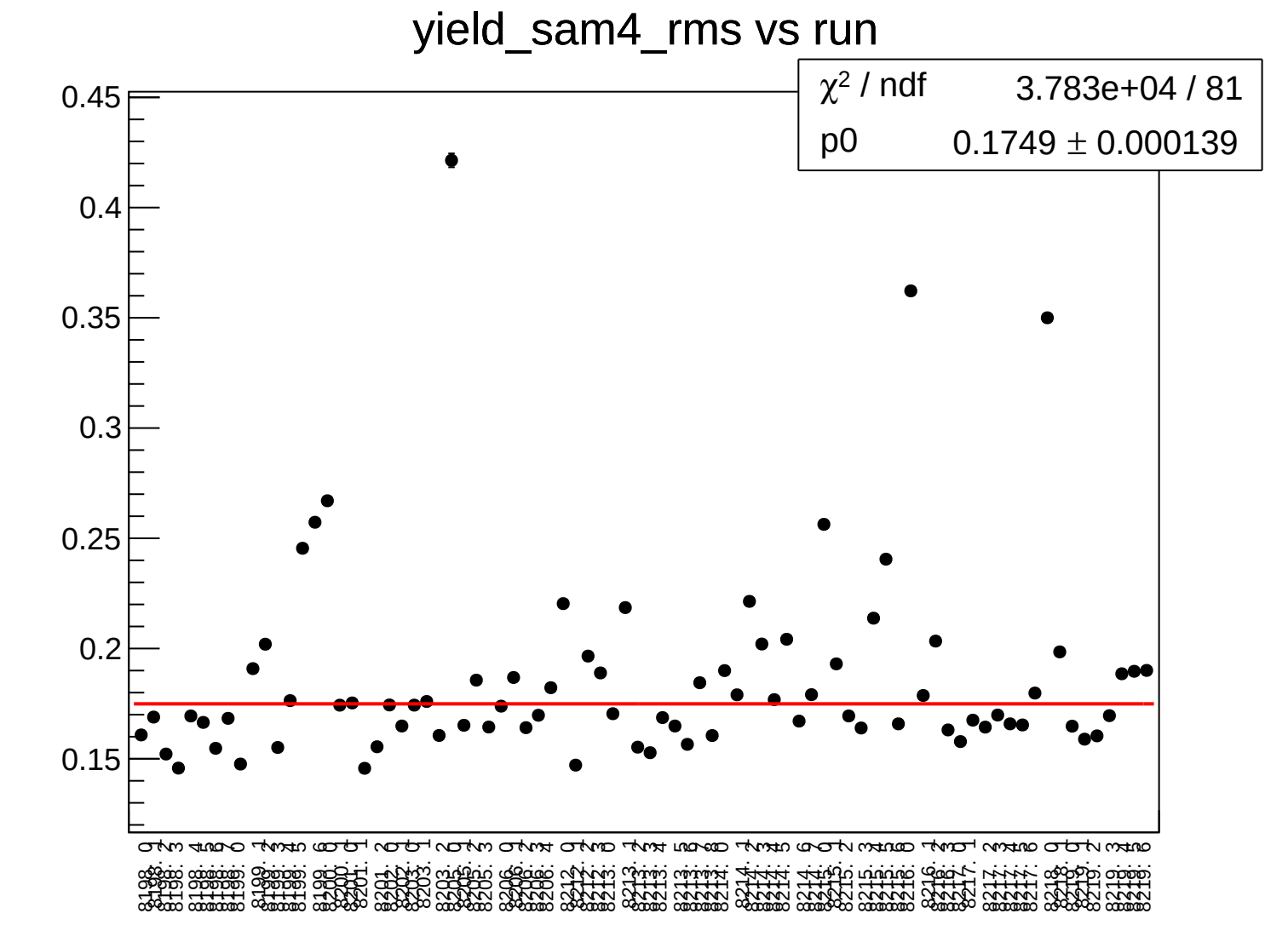

pull1D
Entries 82
Mean −1.512
Std Dev 5.3
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

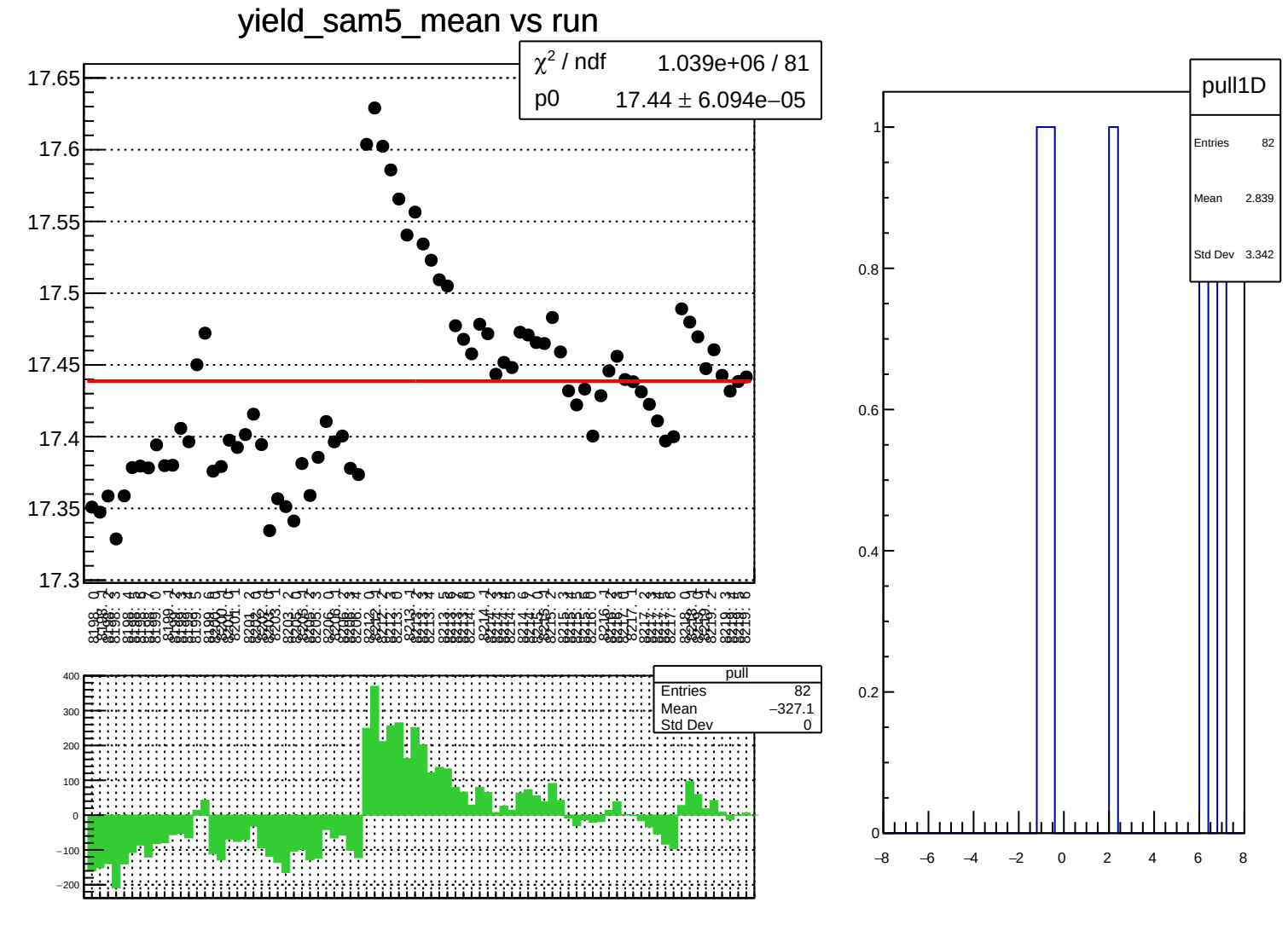

yield_sam2_rms vs run
χ² / ndf 5.428e+04 / 81
p0 0.2813 ± 0.0002247
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

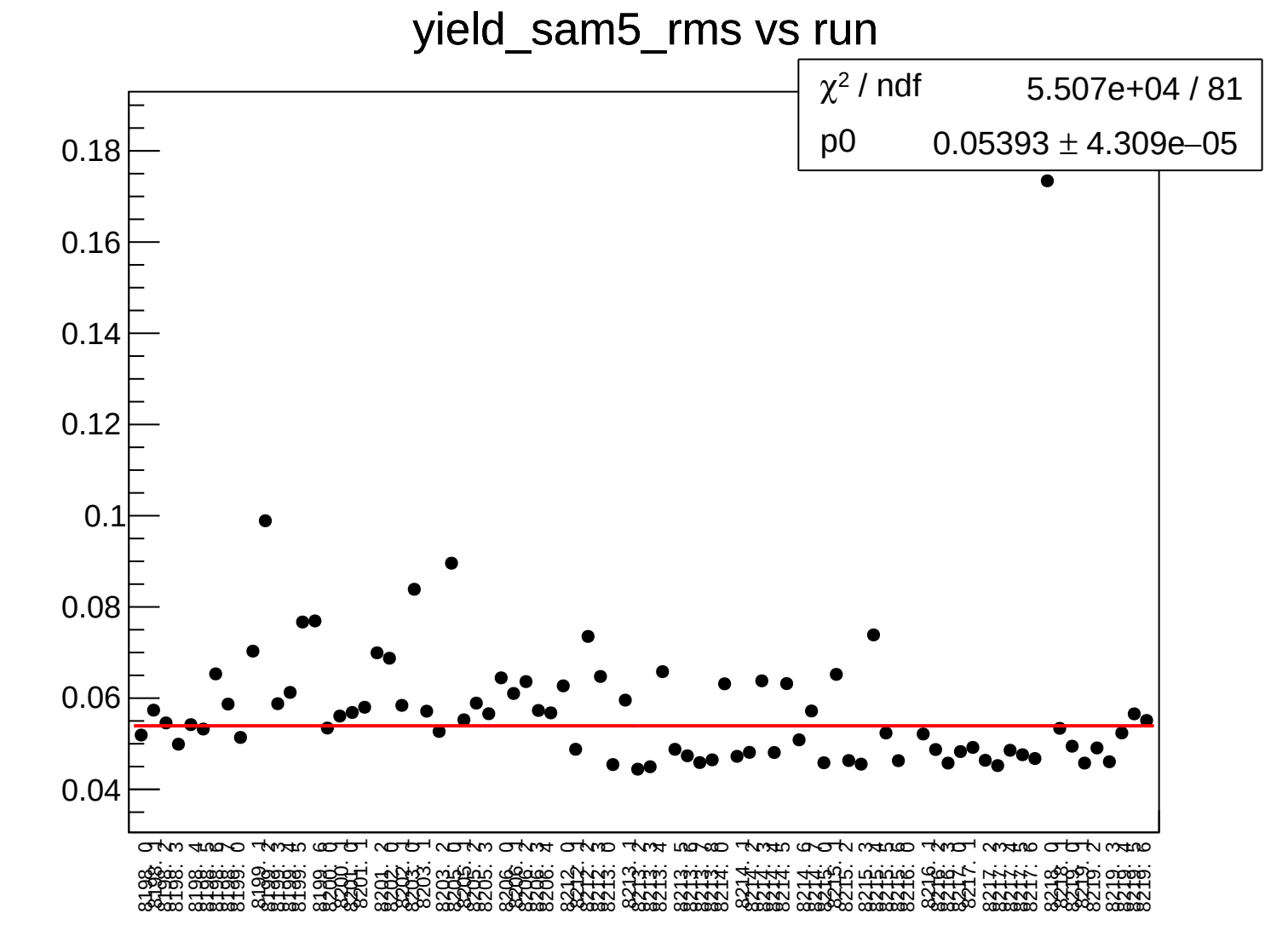

yield_sam3_mean vs run
χ² / ndf 1.301e+05 / 81
p0 23.6 ± 0.0002259
pull
Entries 82
Mean −307.1
Std Dev 0
pull1D
Entries 82
Mean −1.306
Std Dev 4.822

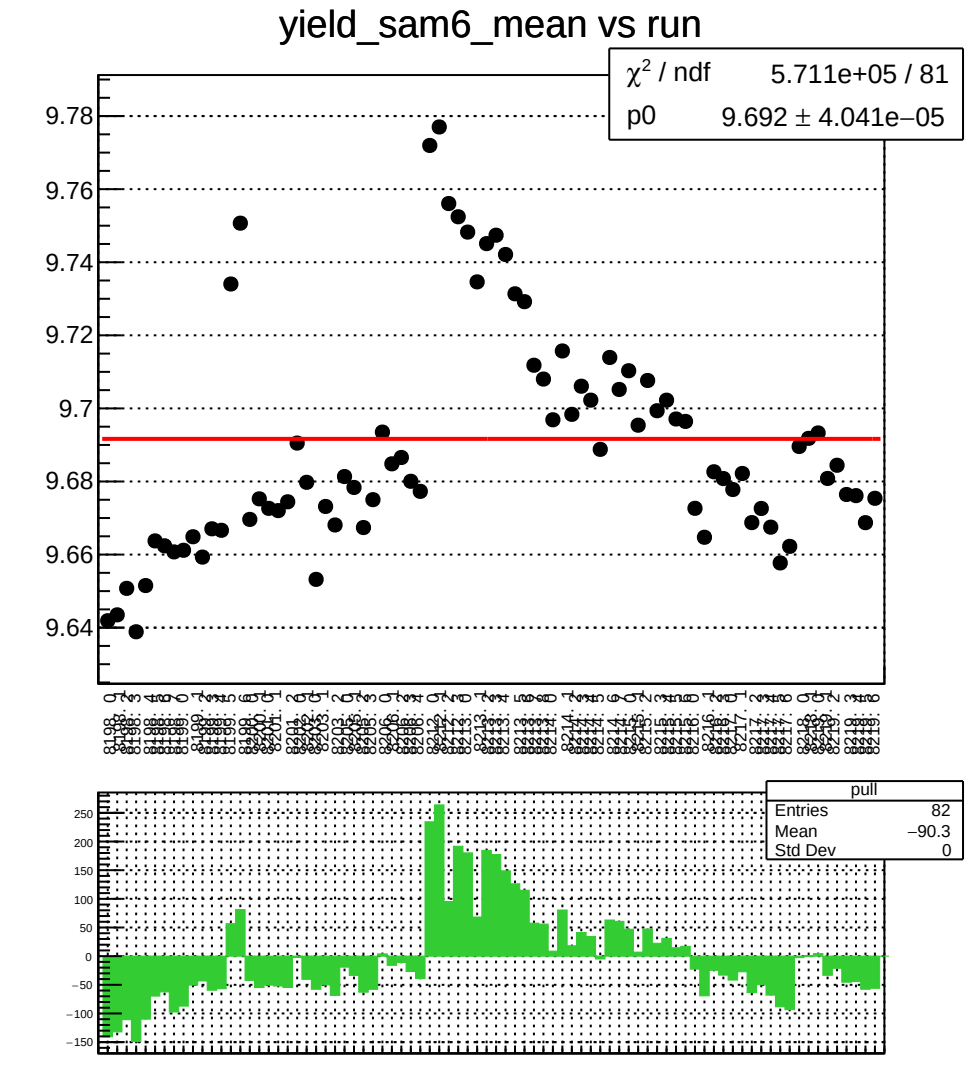

yield_sam3_rms vs run
χ² / ndf 4.241e+04 / 81
p0 0.2008 ± 0.0001598
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15

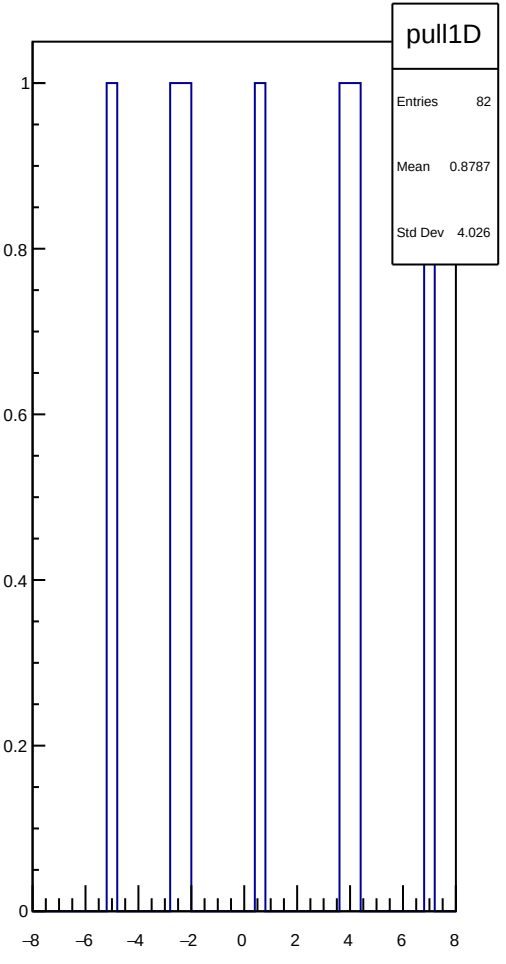

yield_sam4_mean vs run
χ² / ndf 1.469e+05 / 81
p0 13.96 ± 0.0001966
14.1
14
13.9
13.8
13.7
pull
Entries 82
Mean −1768
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 82
Mean 7.307
Std Dev 0.04782
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

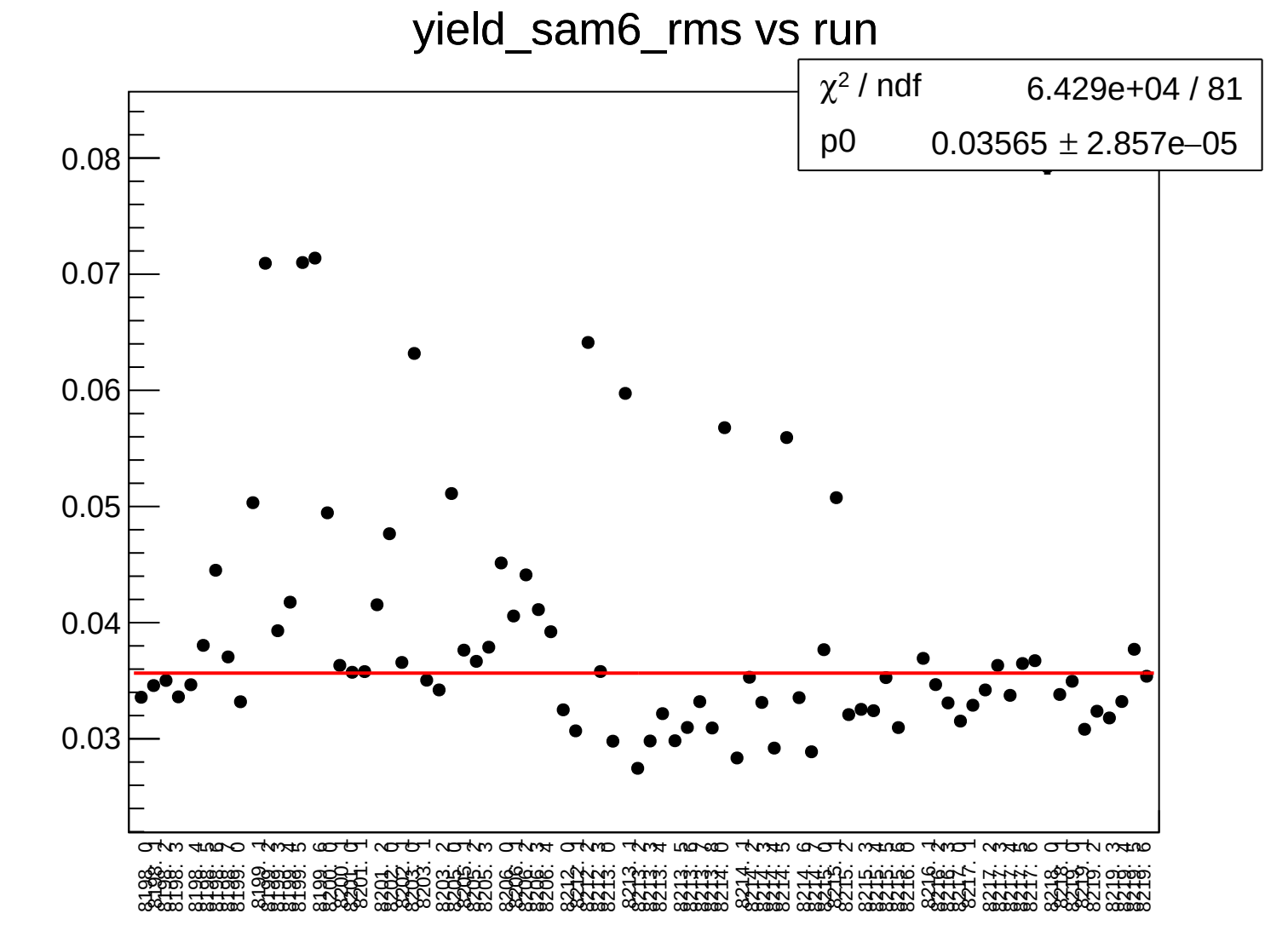

yield_sam4_rms vs run
χ² / ndf 3.783e+04 / 81
p0 0.1749 ± 0.000139
0.45
0.4
0.35
0.3
0.25
0.2
0.15

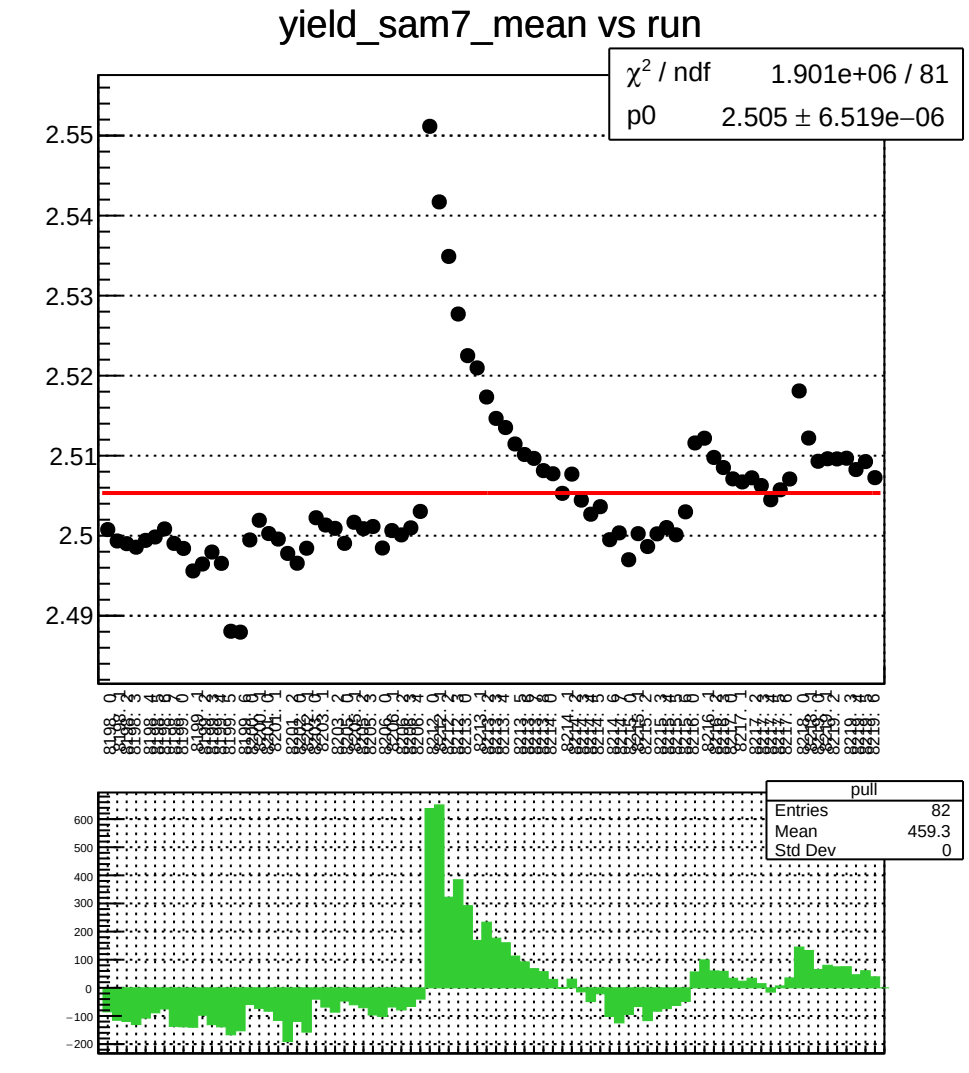

yield_sam5_mean vs run
χ² / ndf 1.039e+06 / 81
p0 17.44 ± 6.094e−05
17.65
17.6
17.55
17.5
17.45
17.4
17.35
17.3
pull
Entries 82
Mean −327.1
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 82
Mean 2.839
Std Dev 3.342
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

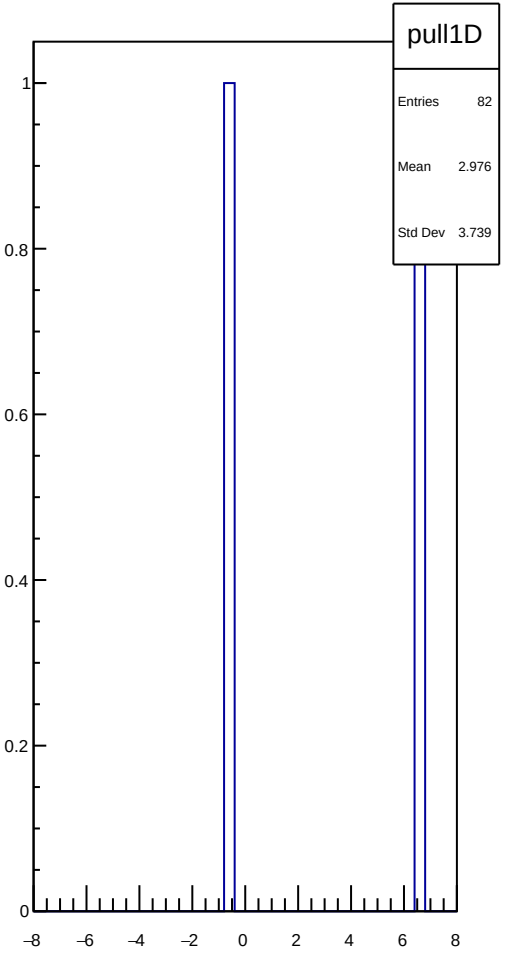

yield_sam5_rms vs run
χ² / ndf 5.507e+04 / 81
p0 0.05393 ± 4.309e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

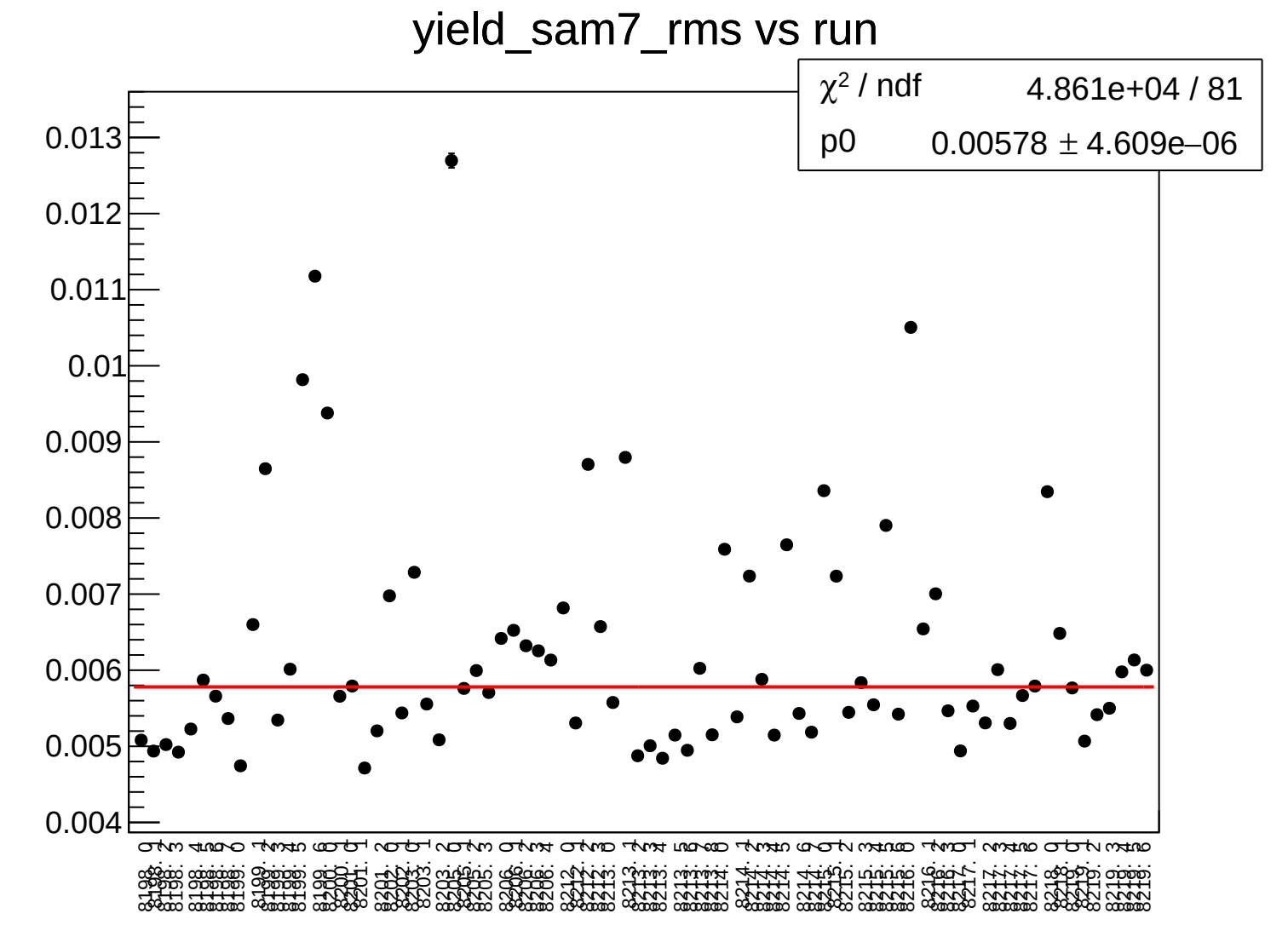

yield_sam6_mean vs run
χ² / ndf 5.711e+05 / 81
p0 9.692 ± 4.041e−05
9.78
9.76
9.74
9.72
9.7
9.68
9.66
9.64
pull
Entries 82
Mean −90.3
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

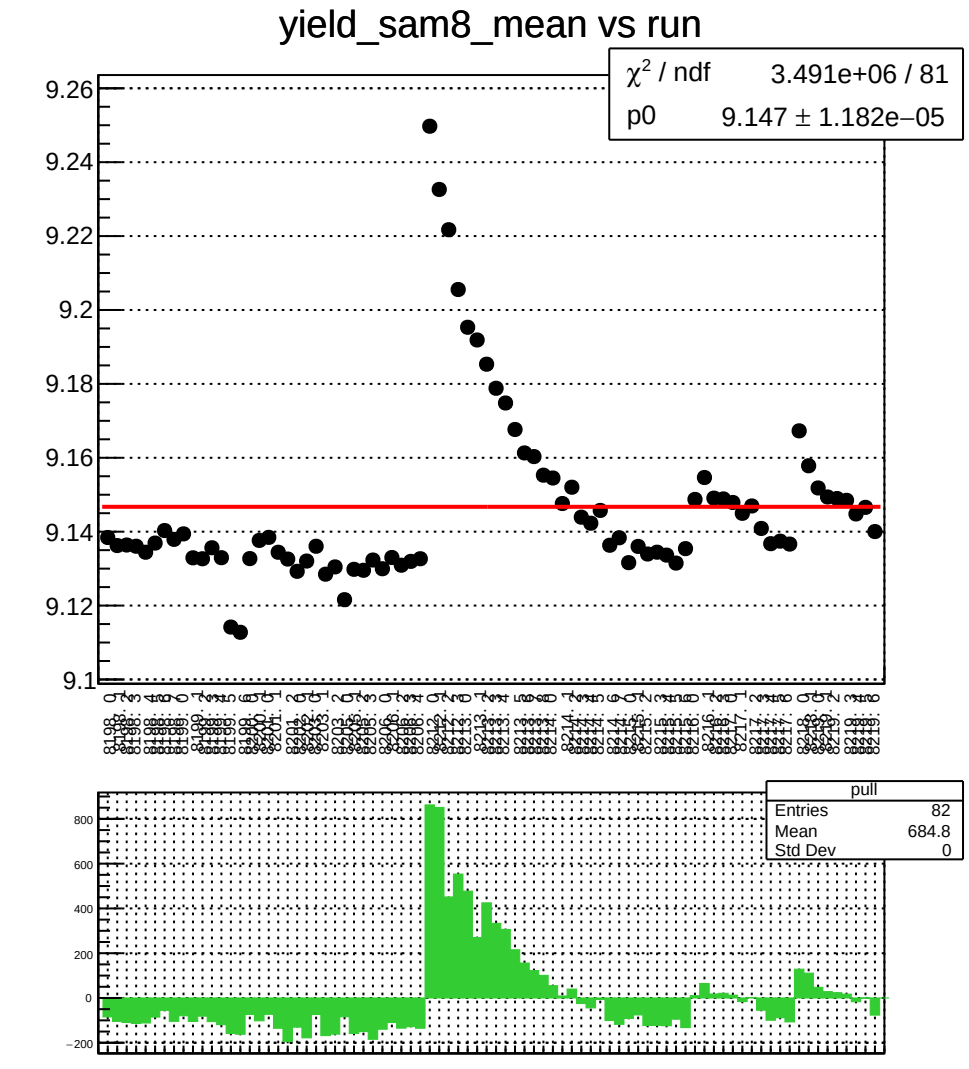

pull1D
Entries 82
Mean 0.8787
Std Dev 4.026
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

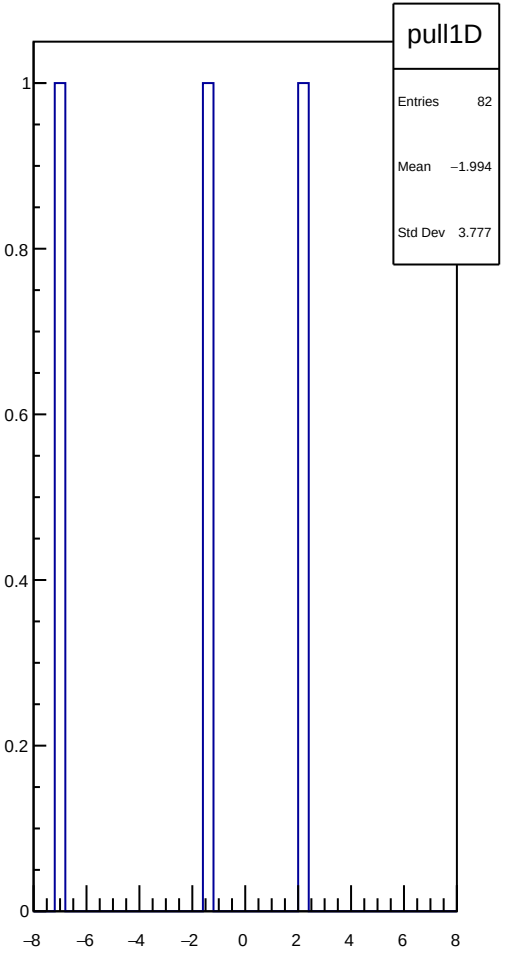

yield_sam6_rms vs run
χ² / ndf 6.429e+04 / 81
p0 0.03565 ± 2.857e−05
0.08
0.07
0.06
0.05
0.04
0.03

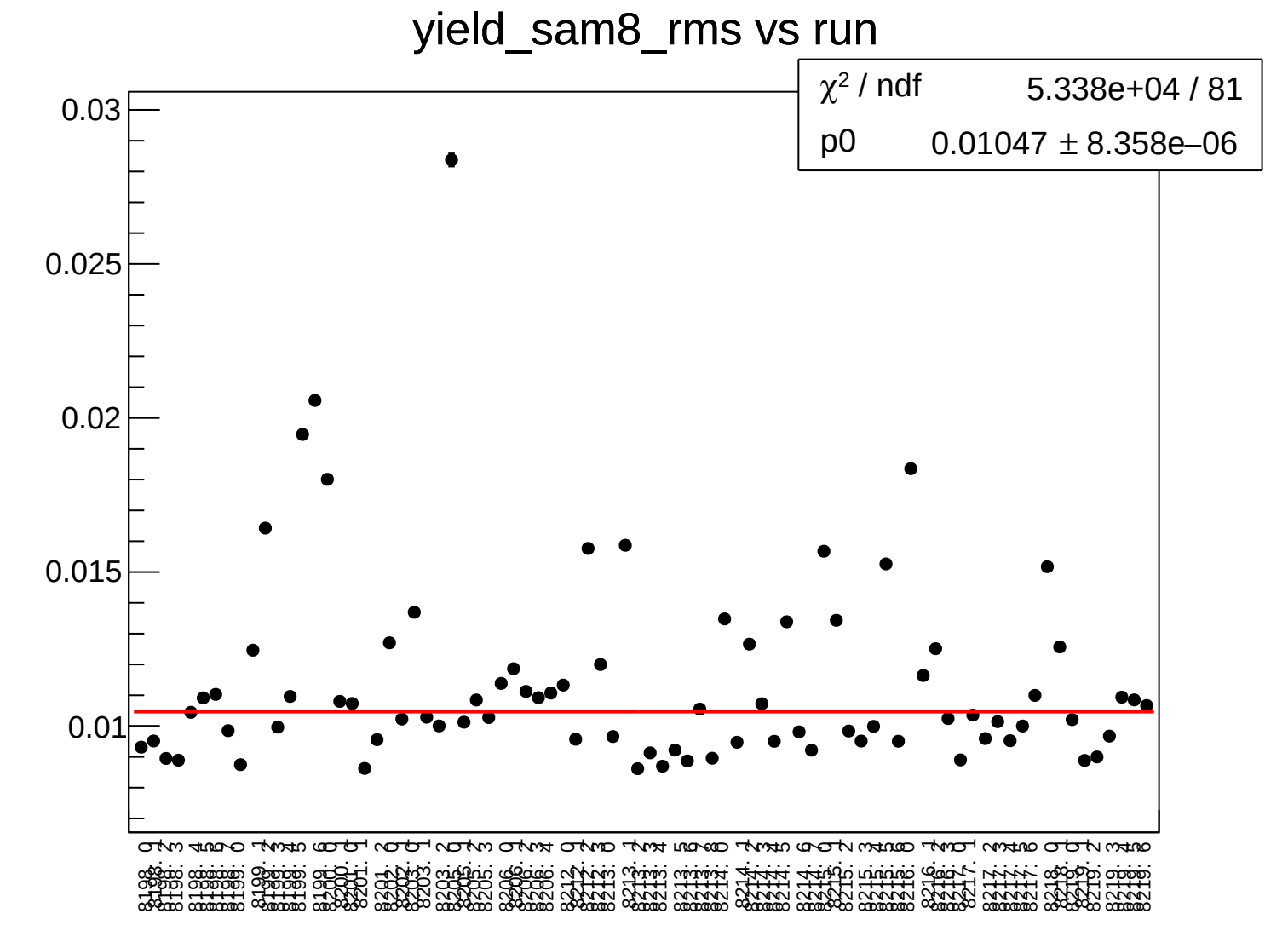

yield_sam7_mean vs run
χ² / ndf 1.901e+06 / 81
p0 2.505 ± 6.519e−06
2.55
2.54
2.53
2.52
2.51
2.5
2.49
pull
Entries 82
Mean 459.3
Std Dev 0
600
500
400
300
200
100
0
−100
−200

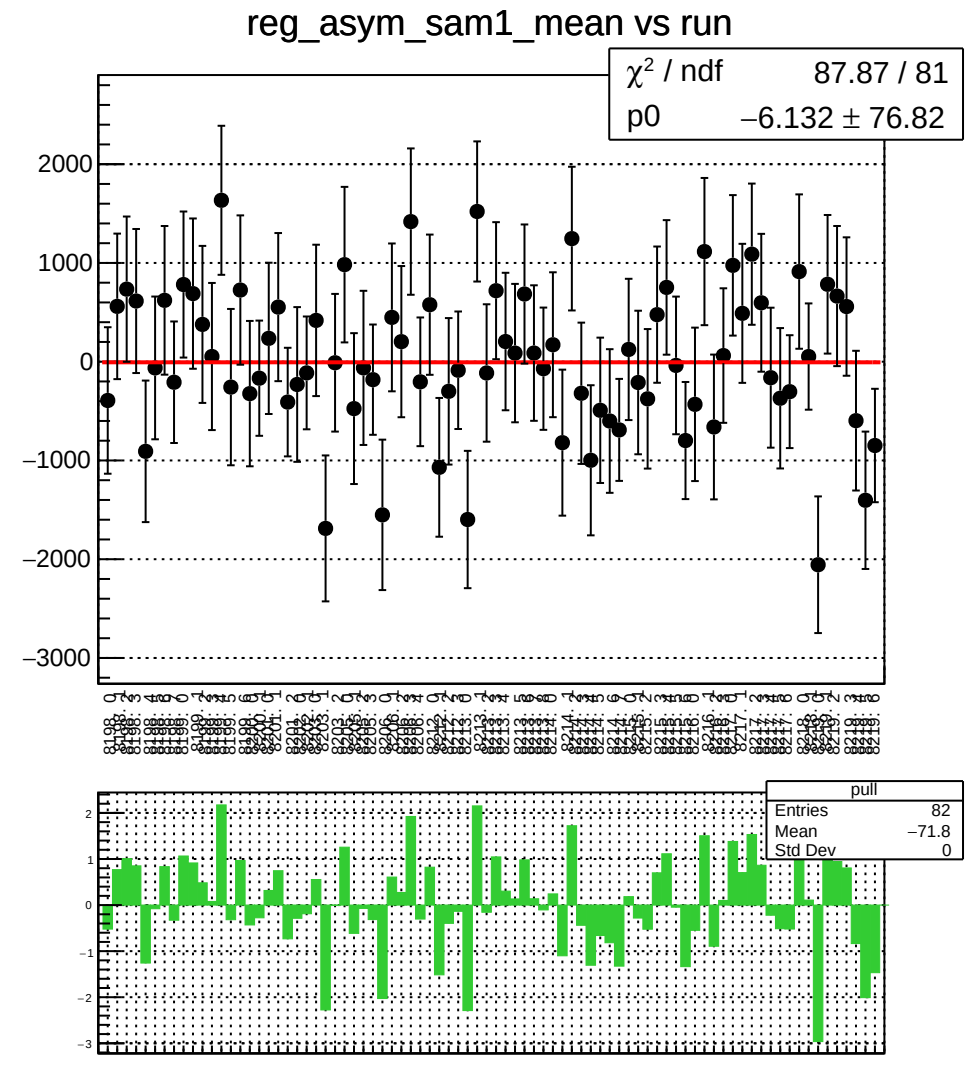

pull1D
Entries 82
Mean 2.976
Std Dev 3.739
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

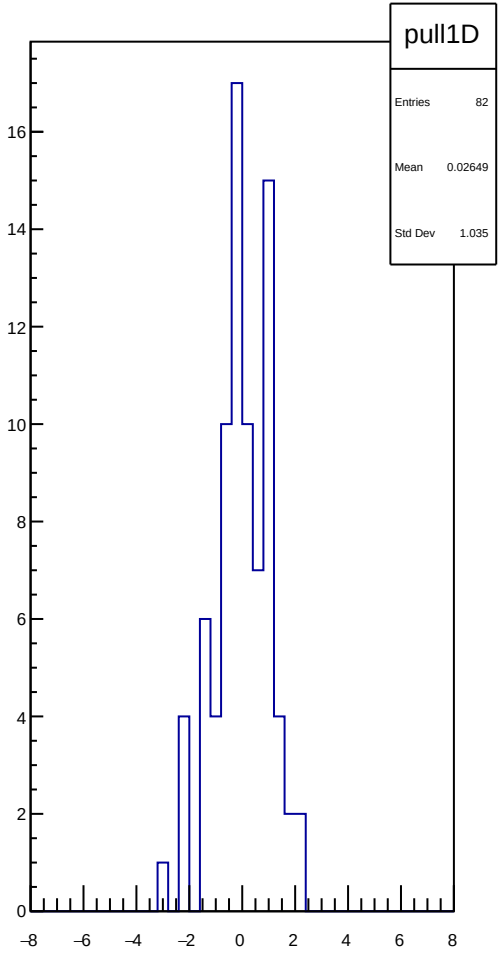

yield_sam7_rms vs run
χ² / ndf 4.861e+04 / 81
p0 0.00578 ± 4.609e–06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

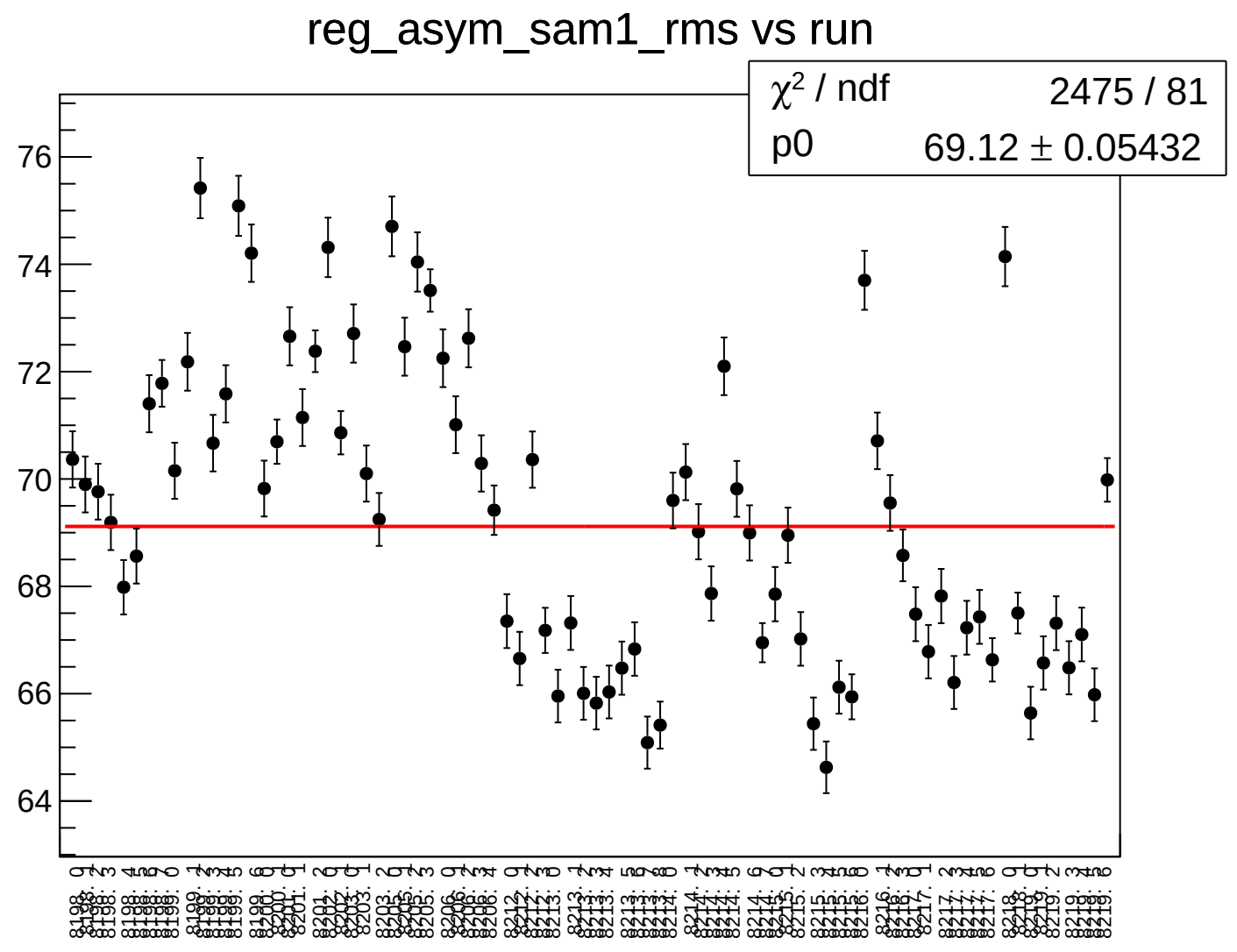

yield_sam8_mean vs run
χ² / ndf 3.491e+06 / 81
p0 9.147 ± 1.182e−05
pull
Entries 82
Mean 684.8
Std Dev 0

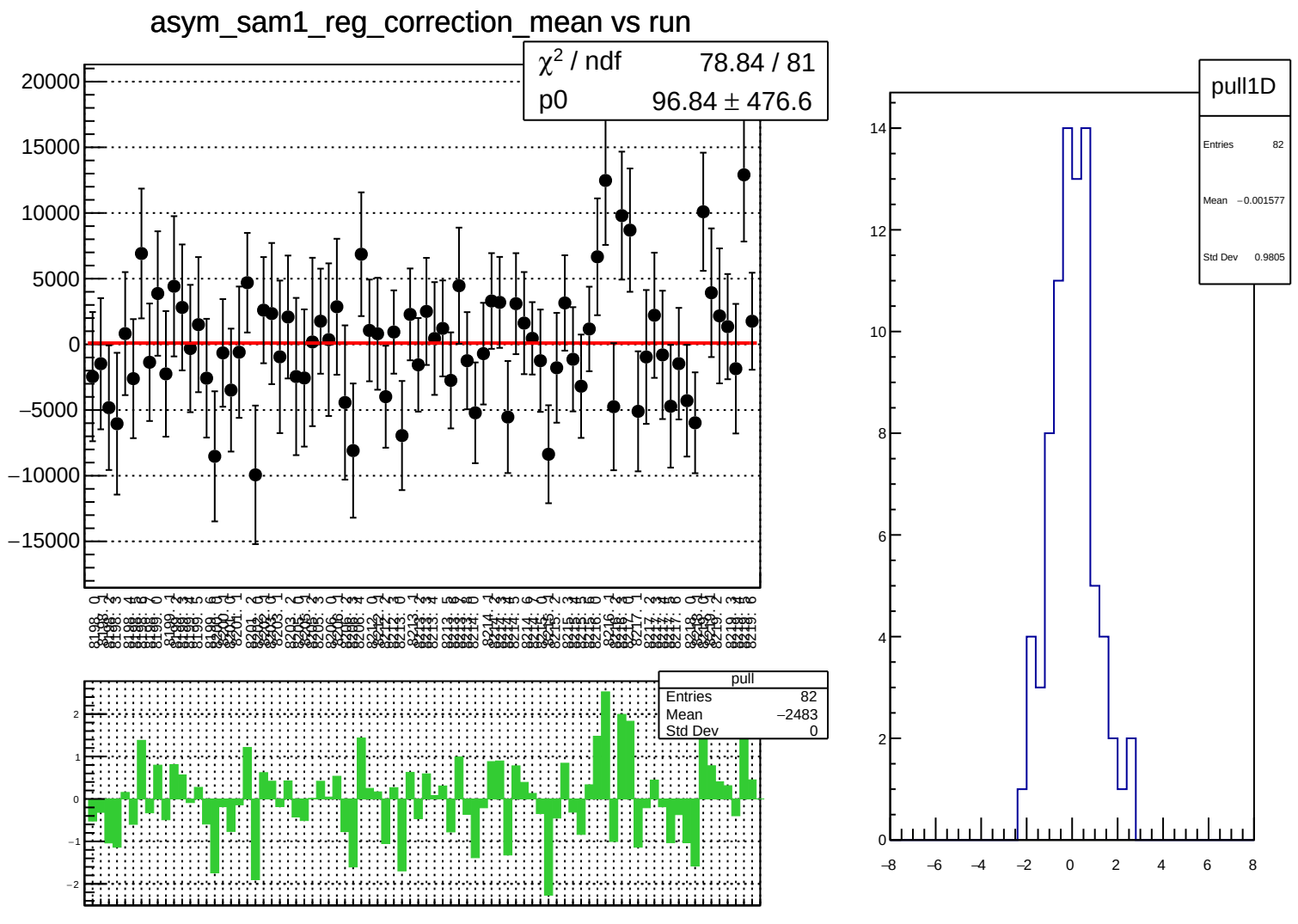

pull1D
Entries 82
Mean −1.994
Std Dev 3.777

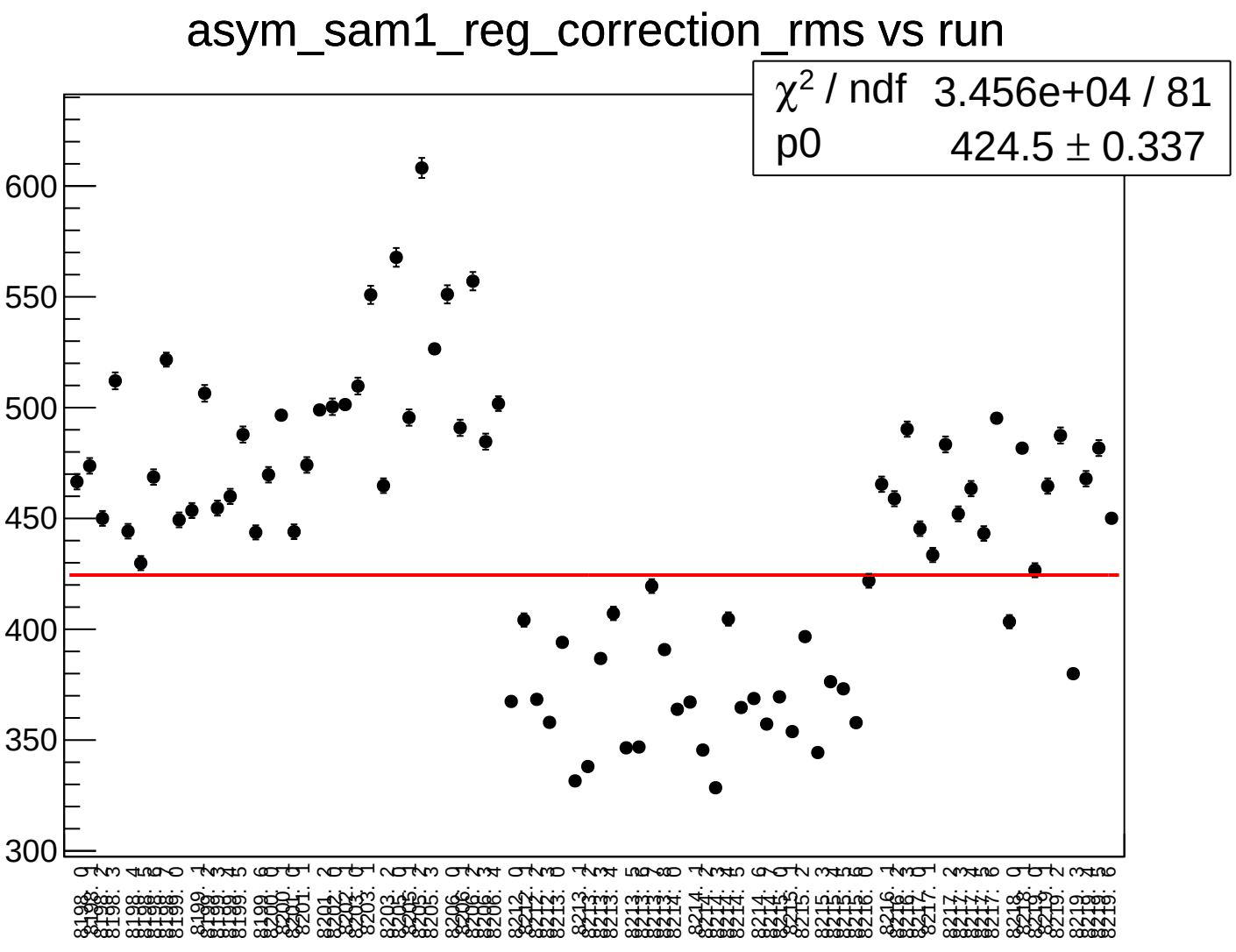

yield_sam8_rms vs run
χ² / ndf 5.338e+04 / 81
p0 0.01047 ± 8.358e–06
0.03
0.025
0.02
0.015
0.01

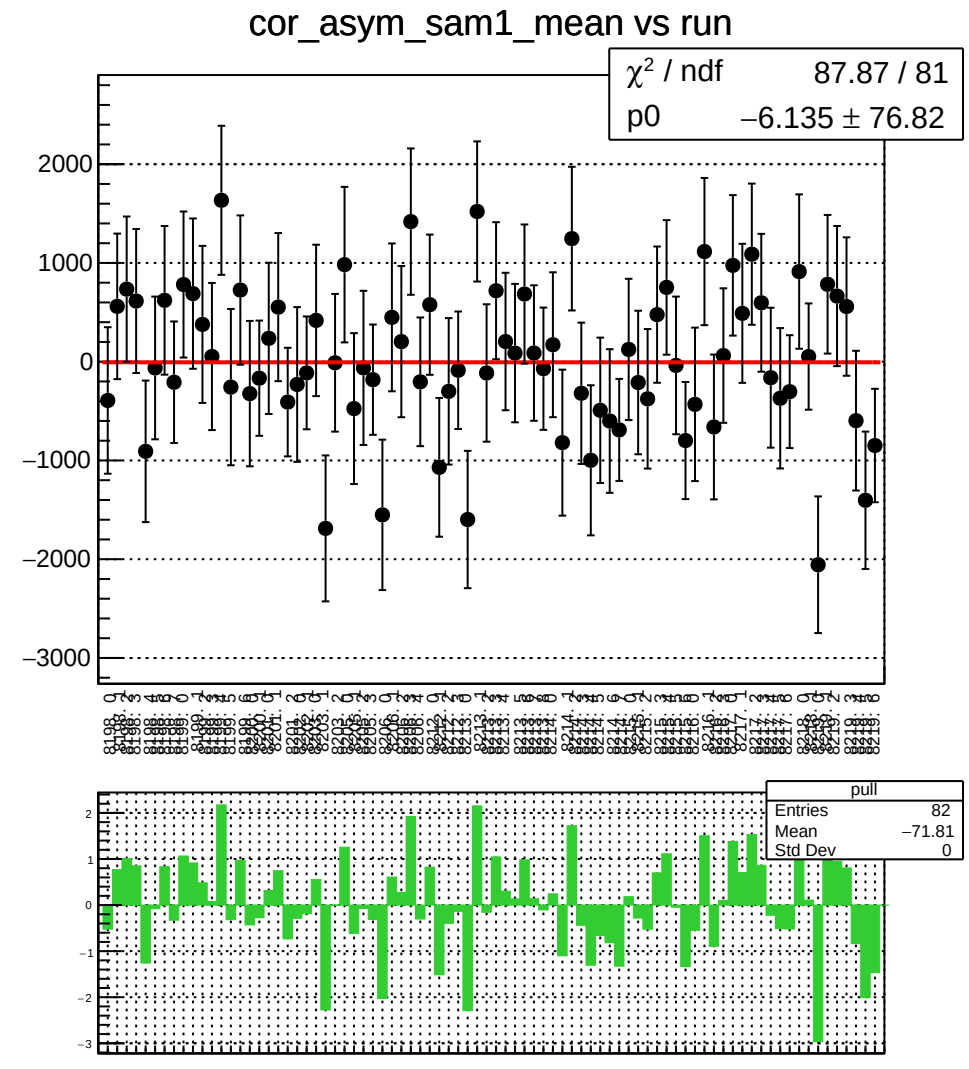

reg_asym_sam1_mean vs run
χ² / ndf 87.87 / 81
p0 −6.132 ± 76.82
pull
Entries 82
Mean −71.8
Std Dev 0

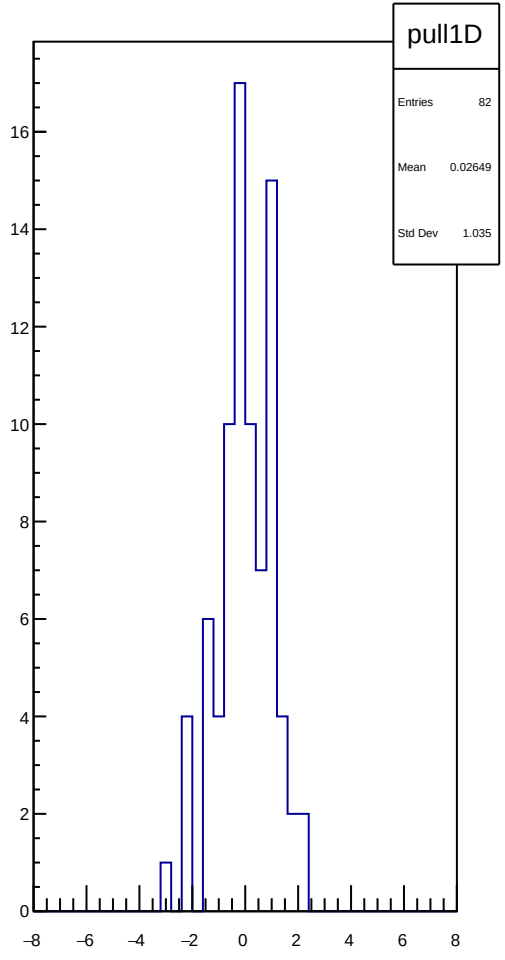

pull1D
Entries 82
Mean 0.02649
Std Dev 1.035

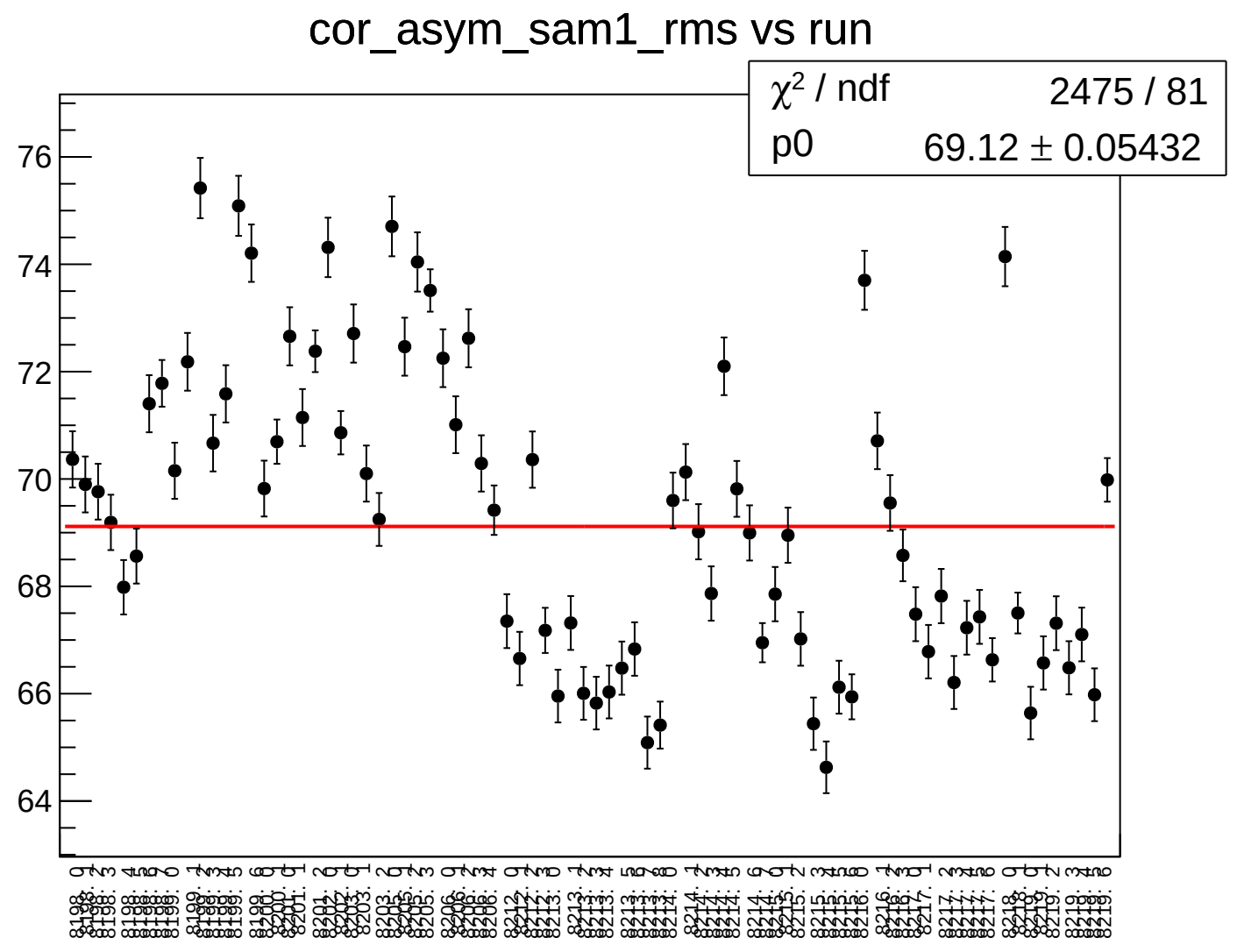

reg_asym_sam1_rms vs run
χ² / ndf 2475 / 81
p0 69.12 ± 0.05432
76
74
72
70
68
66
64

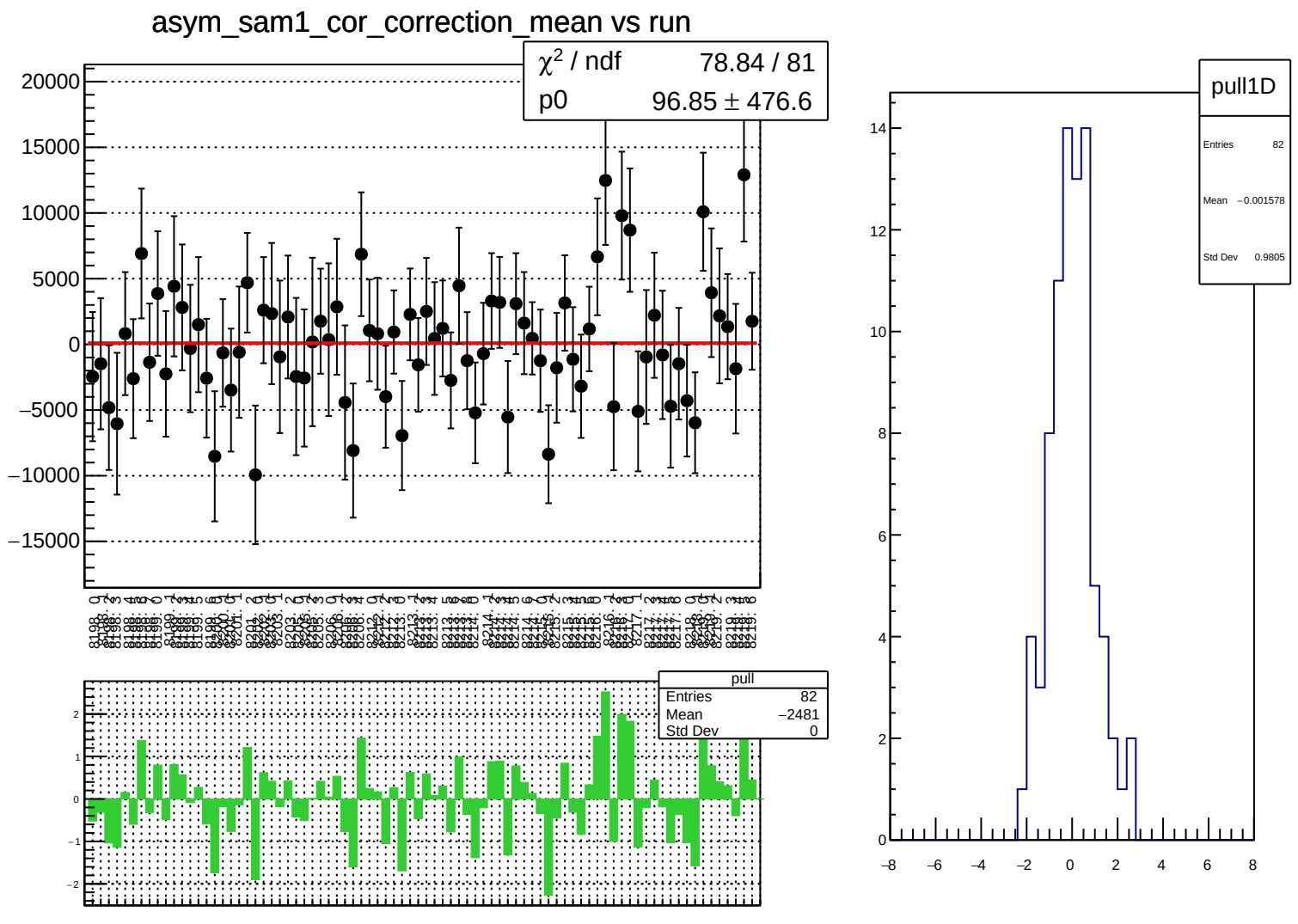

asym_sam1_reg_correction_mean vs run
χ² / ndf 78.84 / 81
p0 96.84 ± 476.6
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −2483
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.001577
Std Dev 0.9805
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

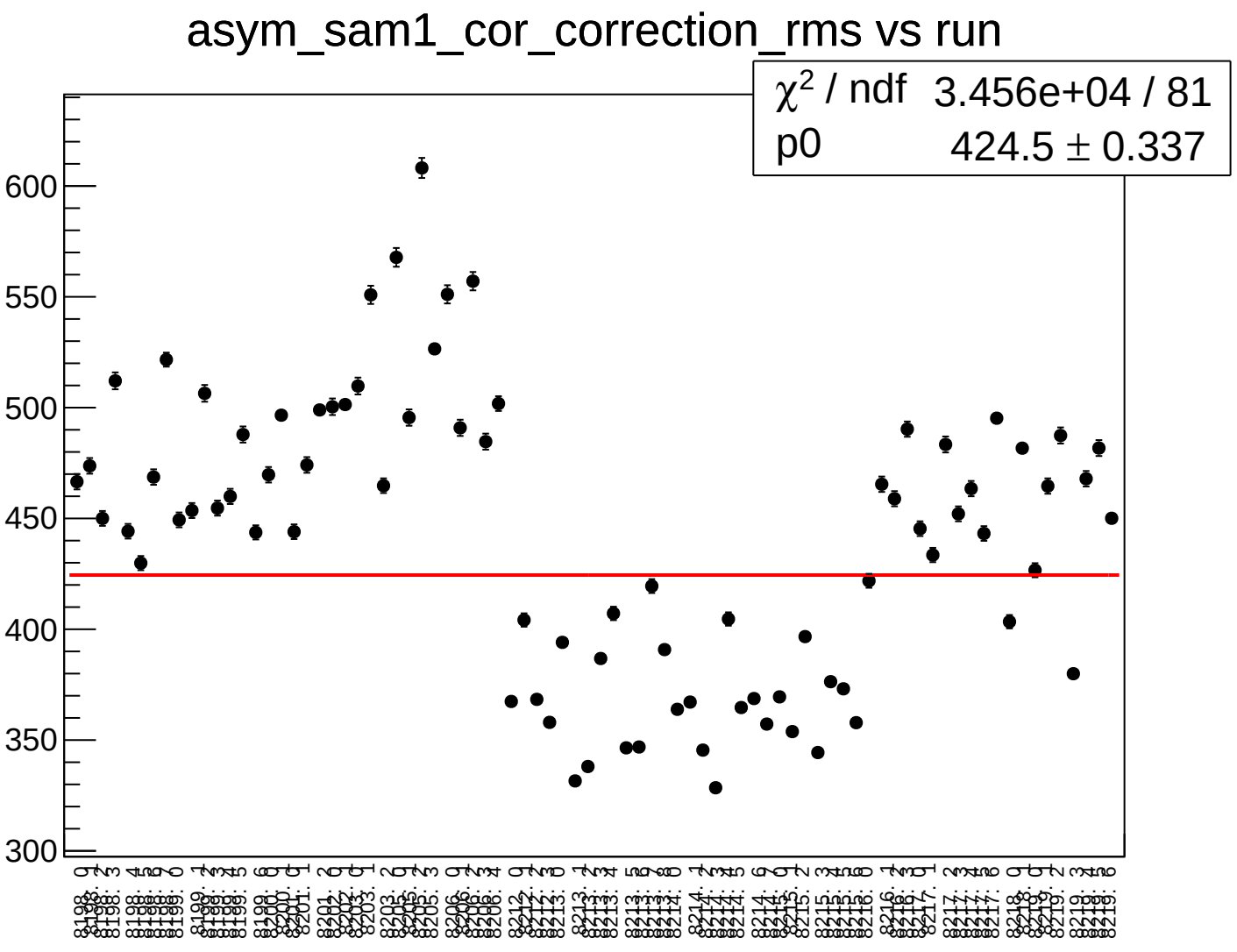

asym_sam1_reg_correction_rms vs run
$\chi^2$ / ndf 3.456e+04 / 81
p0 424.5 ± 0.337
600
550
500
450
400
350
300

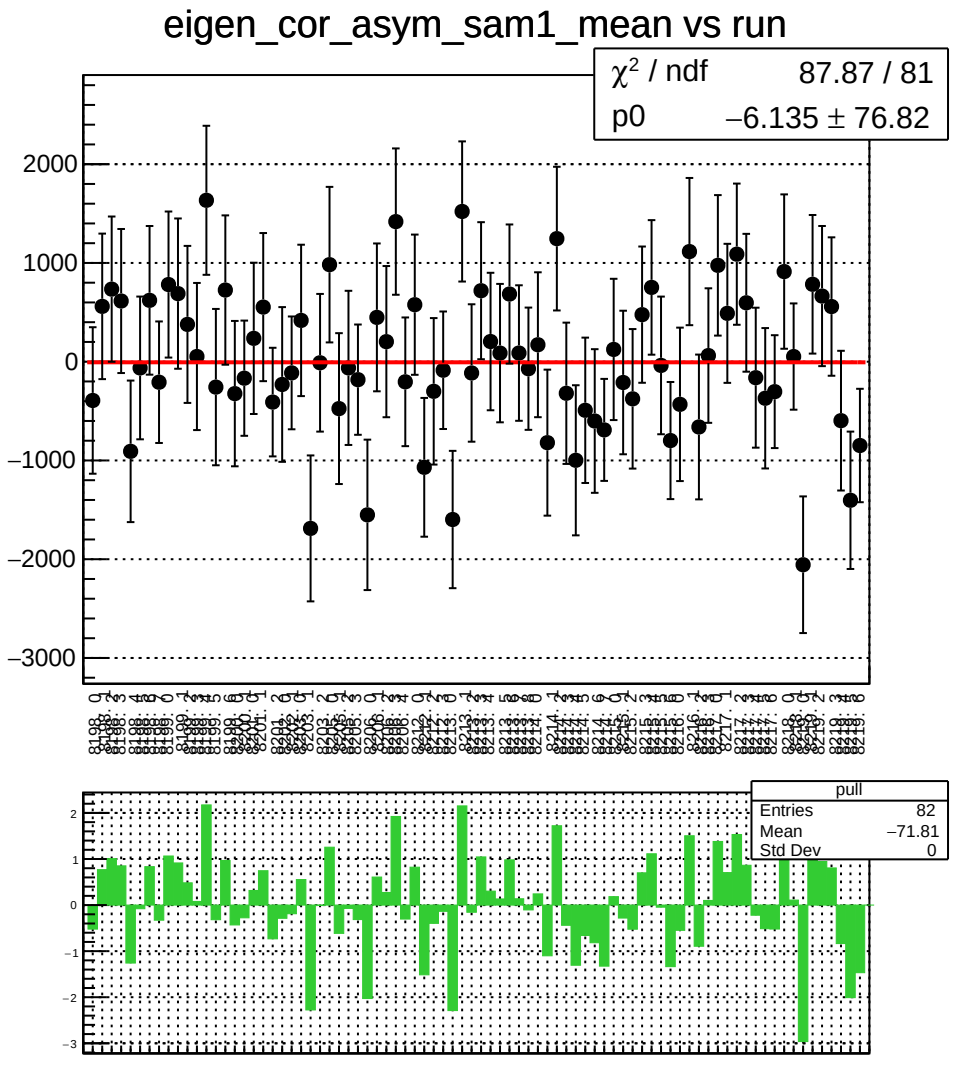

cor_asym_sam1_mean vs run
χ² / ndf 87.87 / 81
p0 −6.135 ± 76.82
pull
Entries 82
Mean −71.81
Std Dev 0

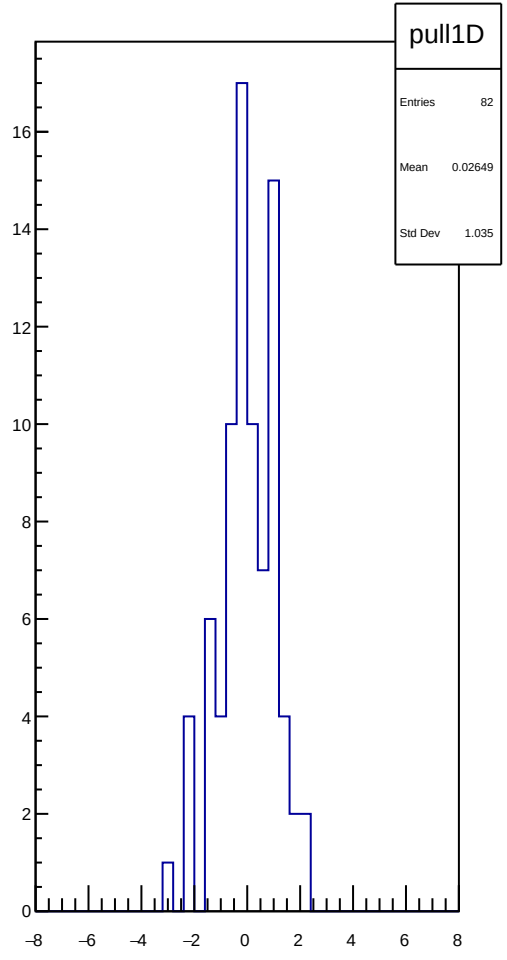

pull1D
Entries 82
Mean 0.02649
Std Dev 1.035

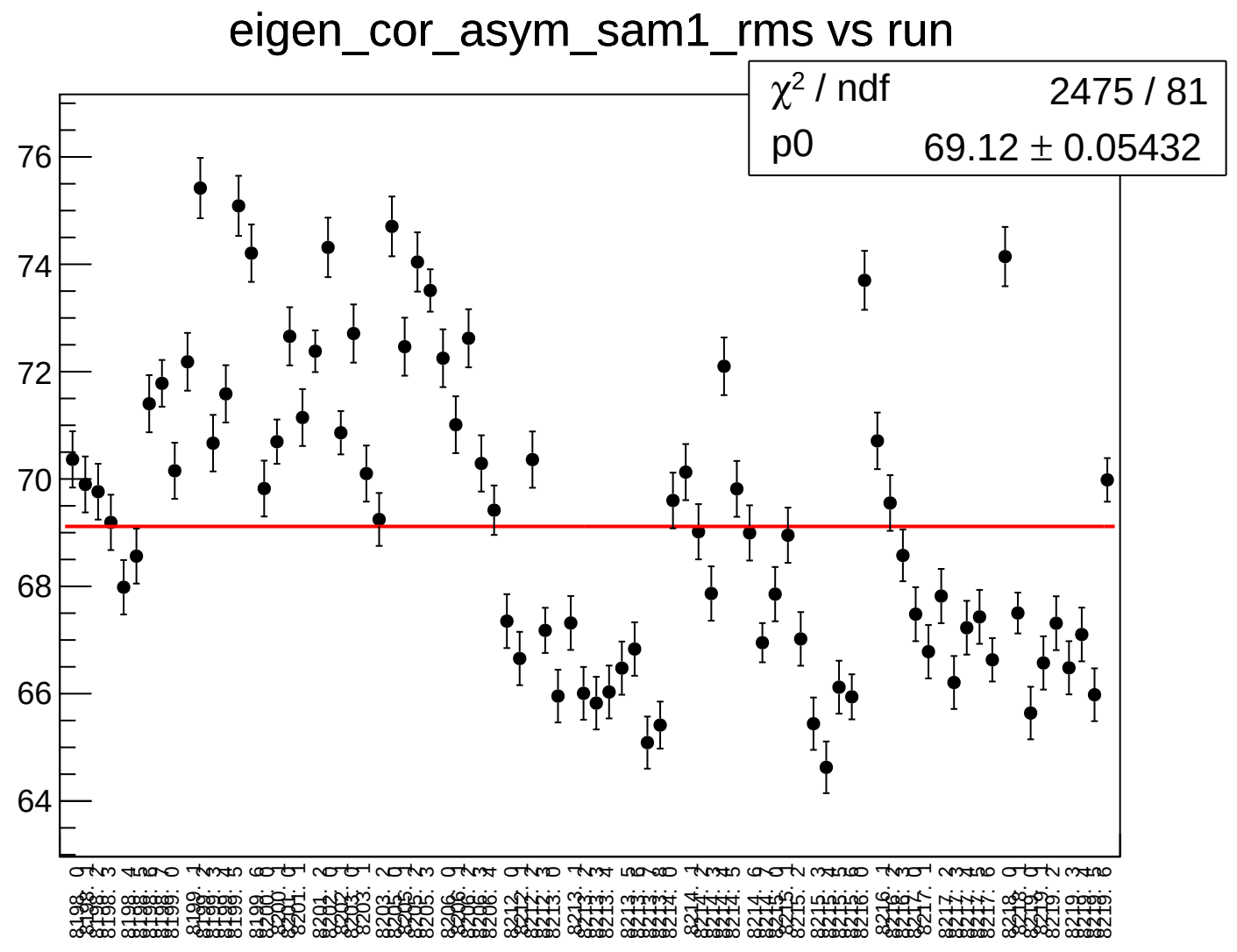

cor_asym_sam1_rms vs run
χ² / ndf 2475 / 81
p0 69.12 ± 0.05432
76
74
72
70
68
66
64

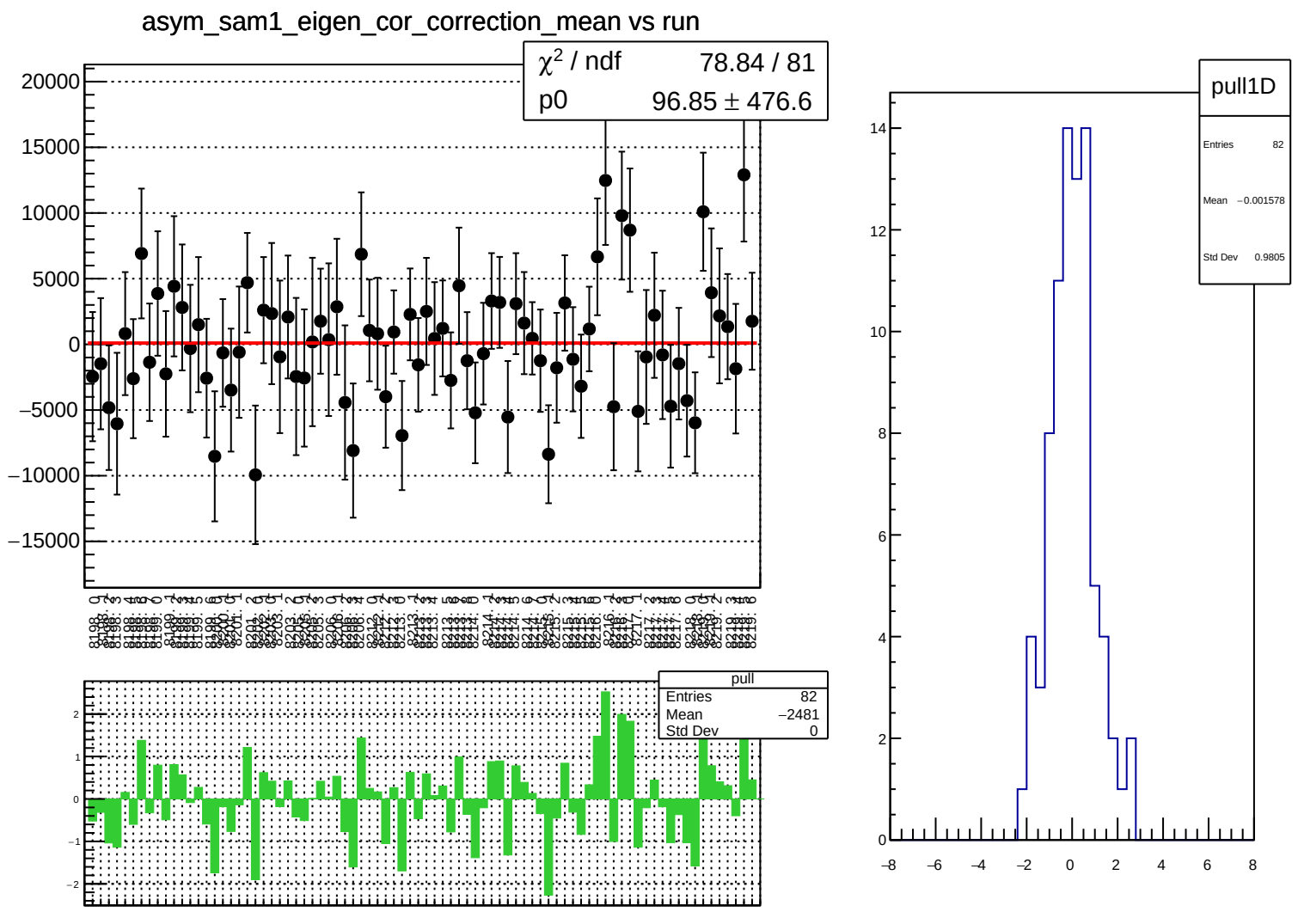

asym_sam1_cor_correction_mean vs run
χ² / ndf 78.84 / 81
p0 96.85 ± 476.6
pull
Entries 82
Mean −2481
Std Dev 0
pull1D
Entries 82
Mean −0.001578
Std Dev 0.9805

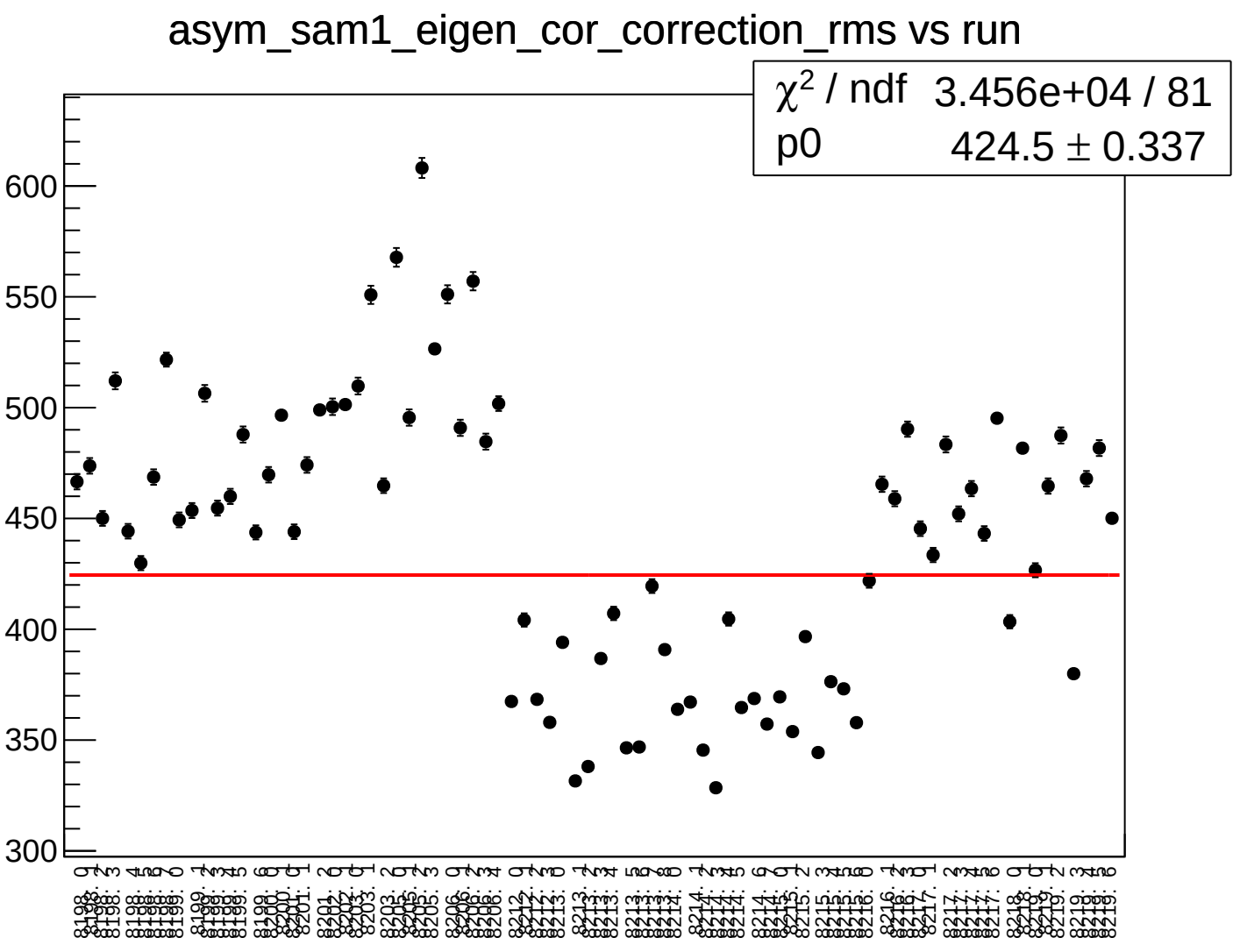

asym_sam1_cor_correction_rms vs run
χ² / ndf 3.456e+04 / 81
p0 424.5 ± 0.337
600
550
500
450
400
350
300

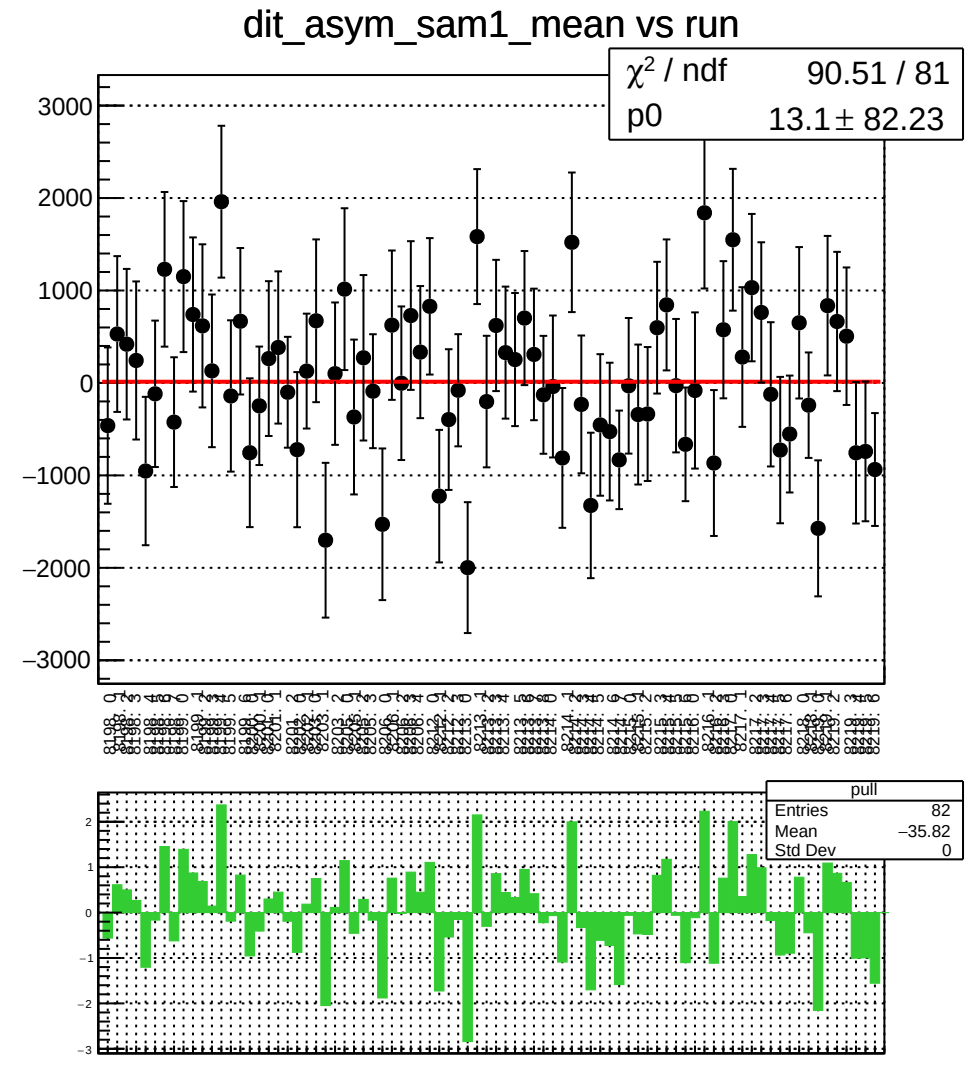

eigen_cor_asym_sam1_mean vs run
χ² / ndf 87.87 / 81
p0 −6.135 ± 76.82
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean −71.81
Std Dev 0
2
1
0
−1
−2
−3

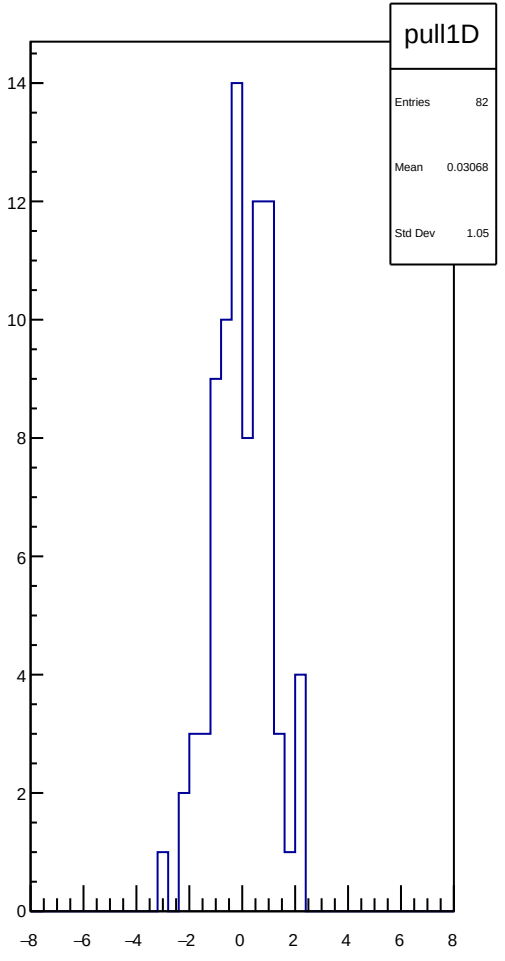

pull1D
Entries 82
Mean 0.02649
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

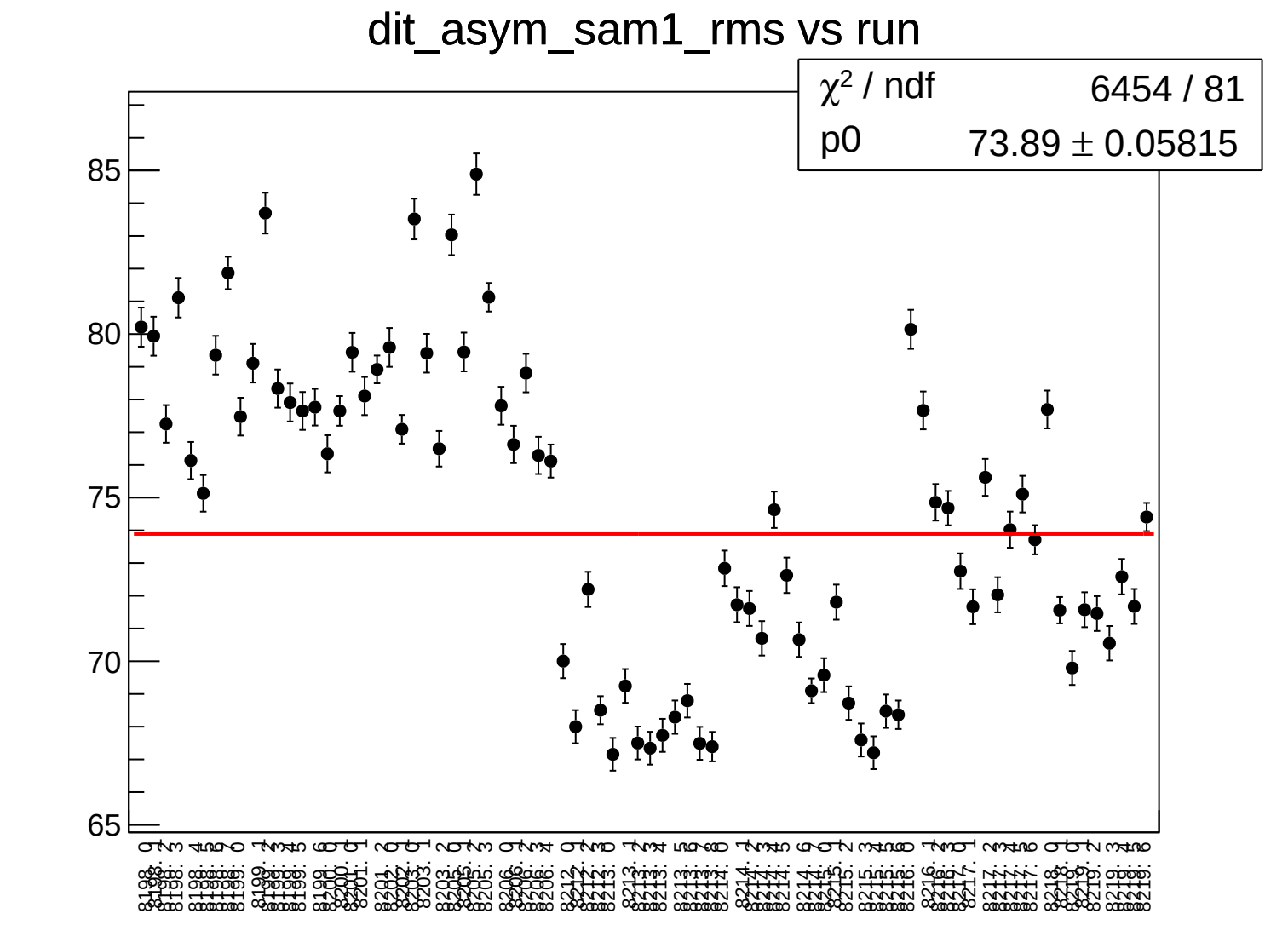

eigen_cor_asym_sam1_rms vs run
χ² / ndf 2475 / 81
p0 69.12 ± 0.05432
76
74
72
70
68
66
64

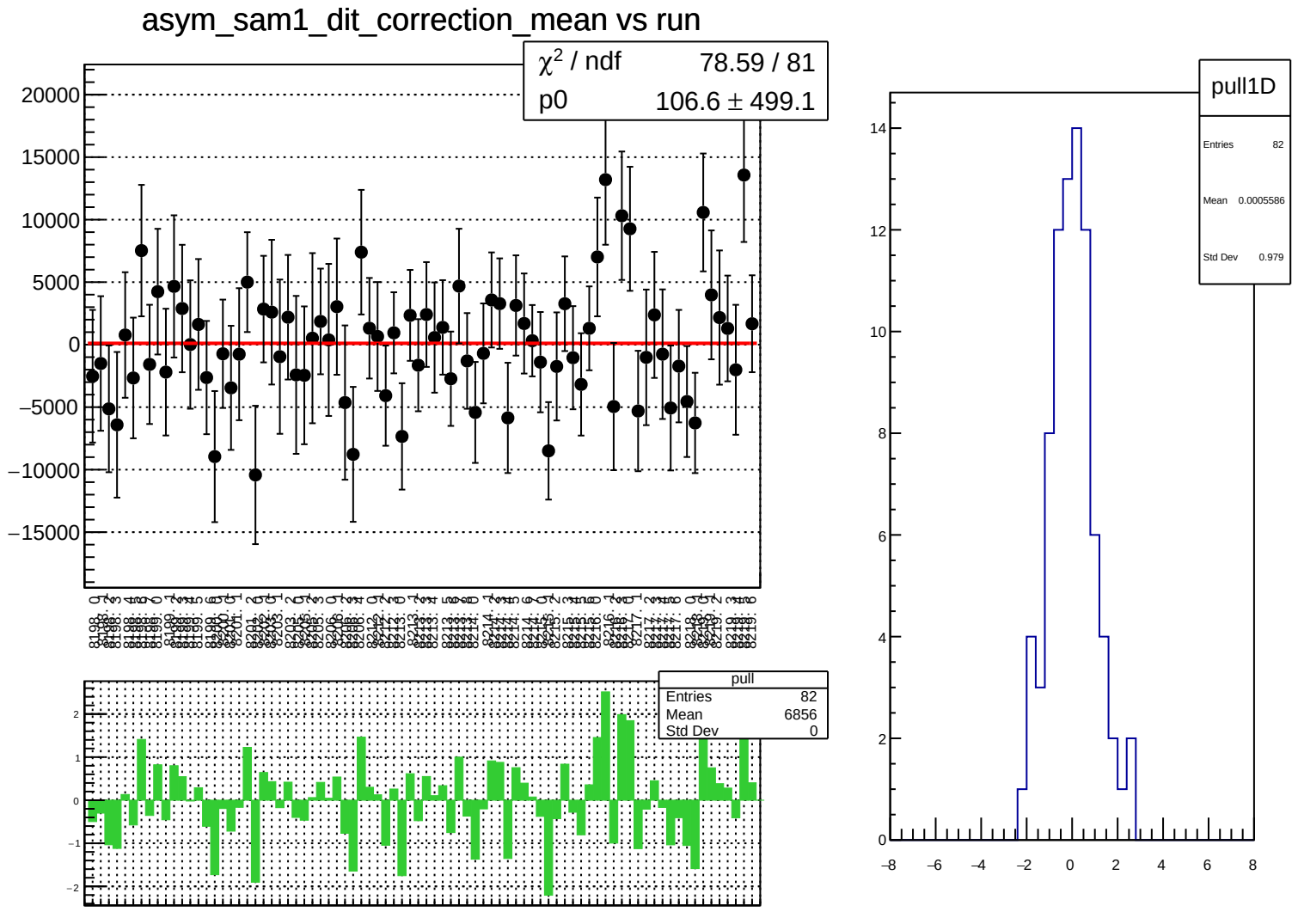

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 78.84 / 81
p0 96.85 ± 476.6
pull
Entries 82
Mean −2481
Std Dev 0
pull1D
Entries 82
Mean −0.001578
Std Dev 0.9805

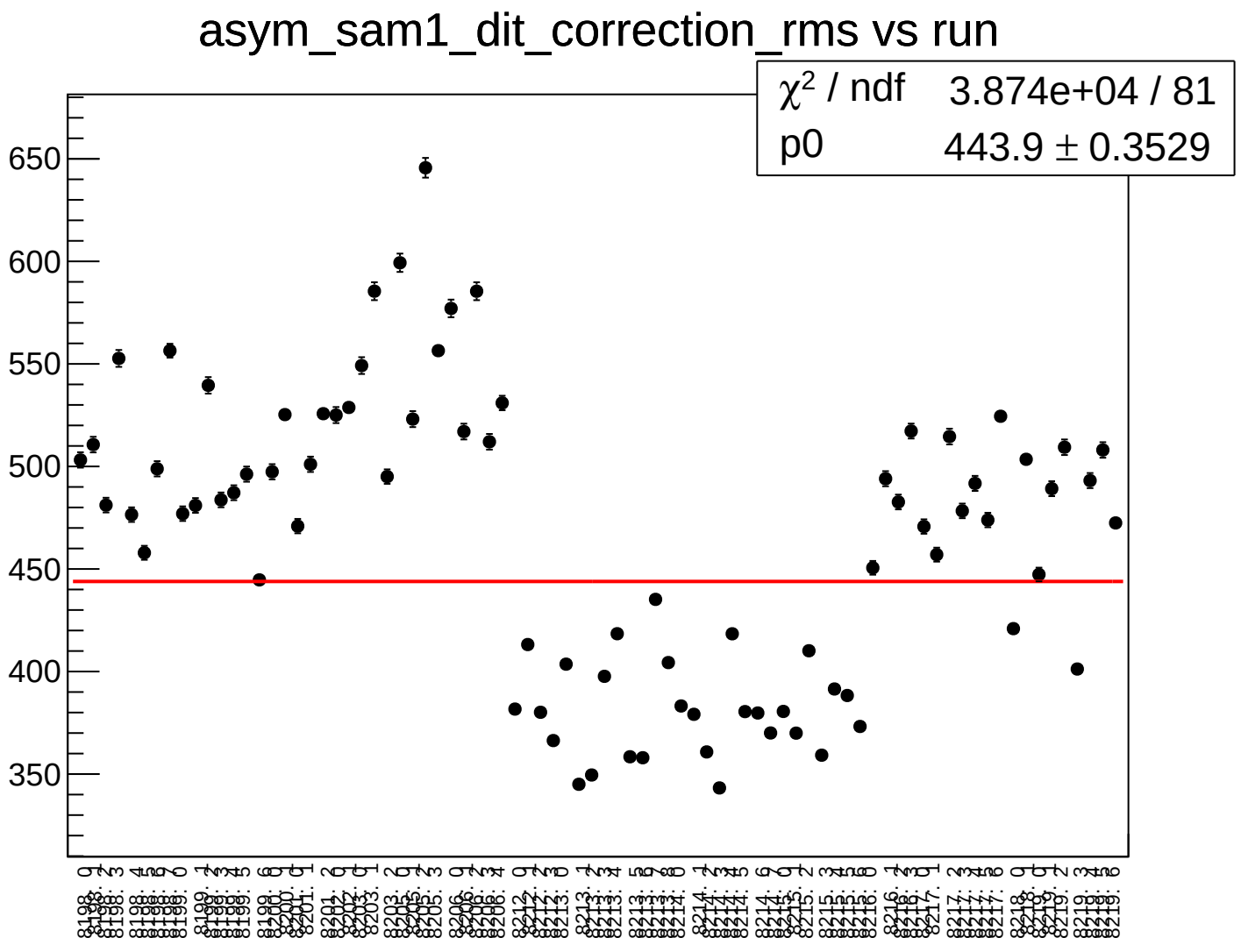

asym_sam1_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 3.456e+04 / 81
p0 424.5 ± 0.337
600
550
500
450
400
350
300

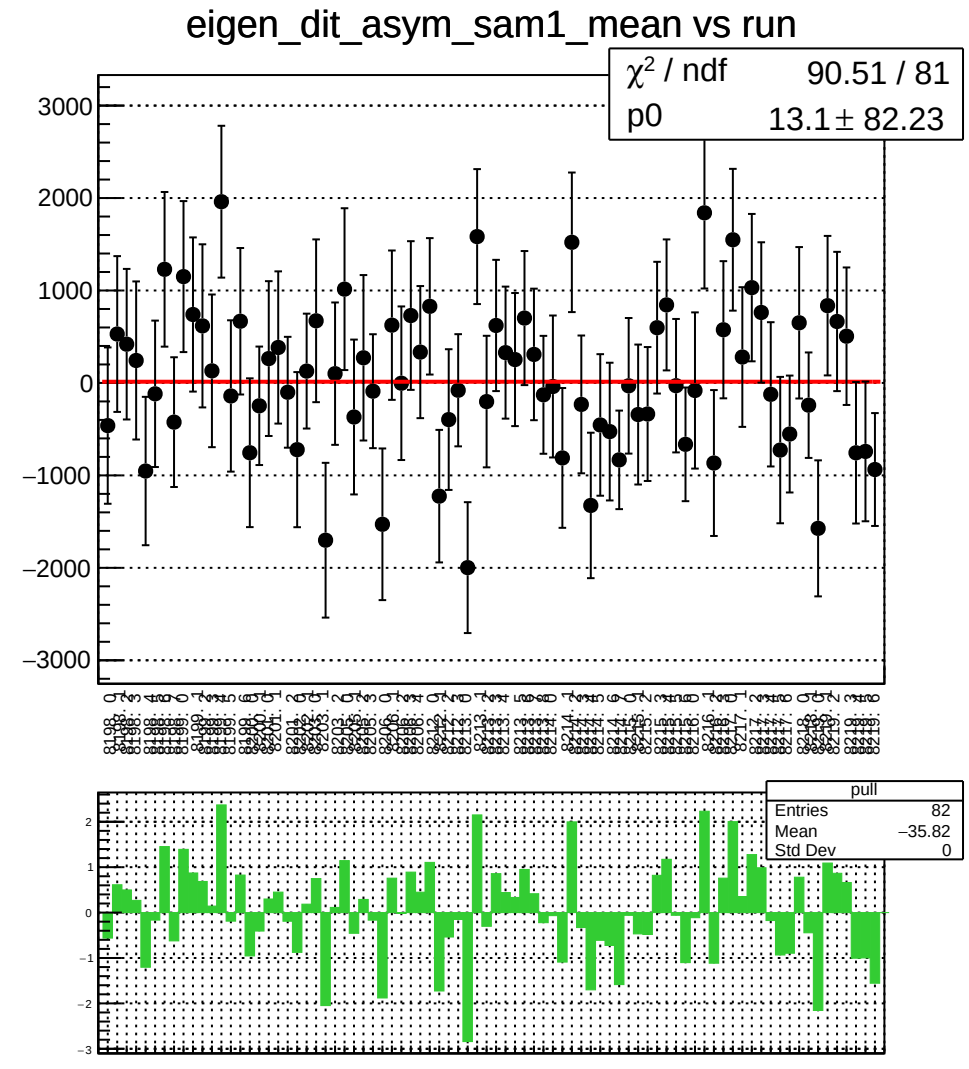

dit_asym_sam1_mean vs run
χ² / ndf 90.51 / 81
p0 13.1 ± 82.23
pull
Entries 82
Mean −35.82
Std Dev 0

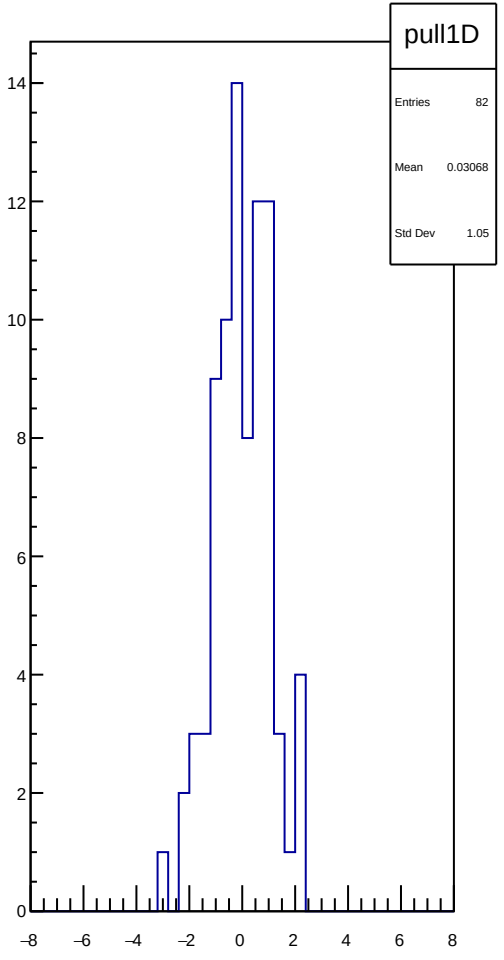

pull1D
Entries 82
Mean 0.03068
Std Dev 1.05

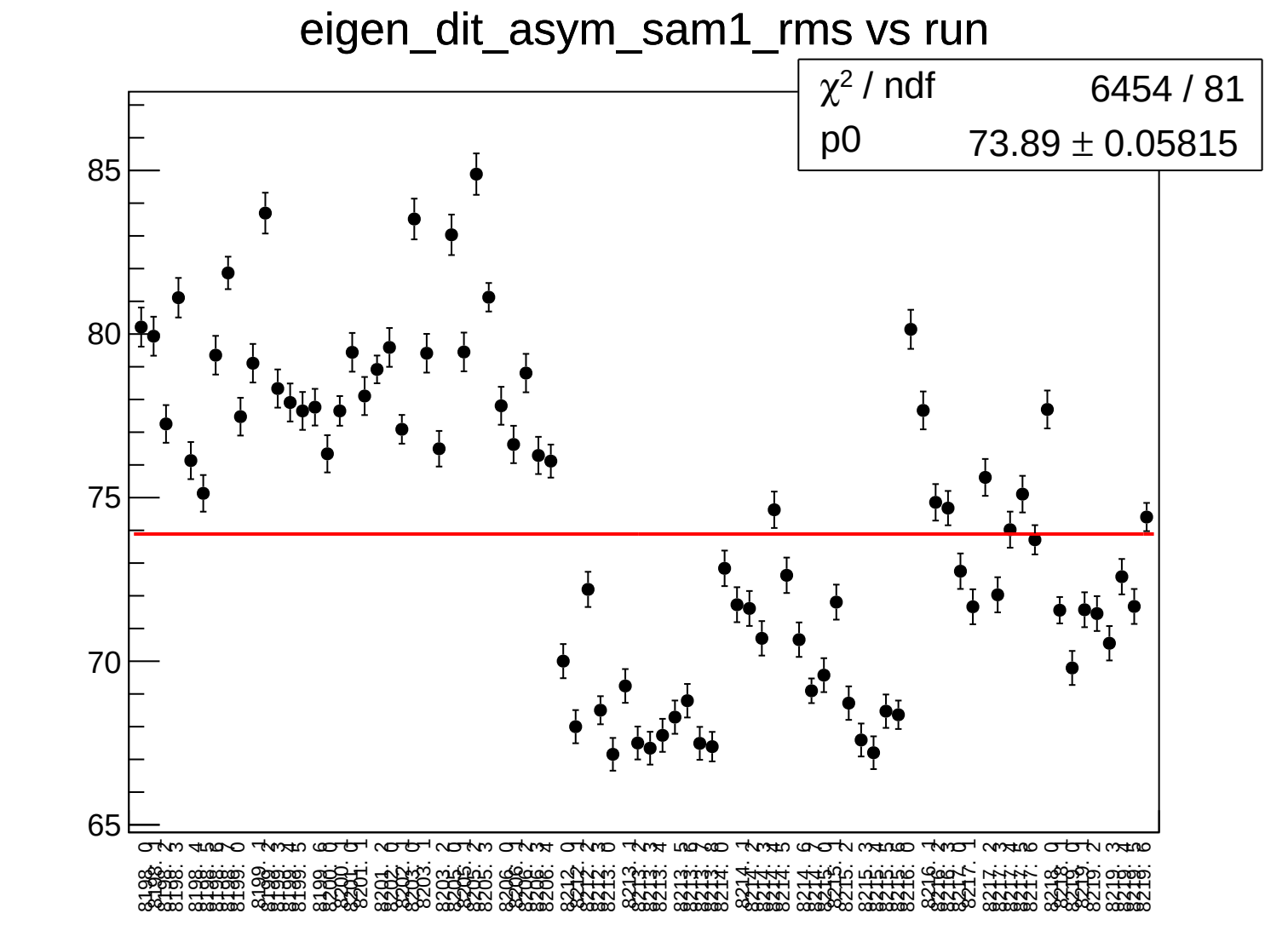

dit_asym_sam1_rms vs run
χ² / ndf 6454 / 81
p0 73.89 ± 0.05815
85
80
75
70
65

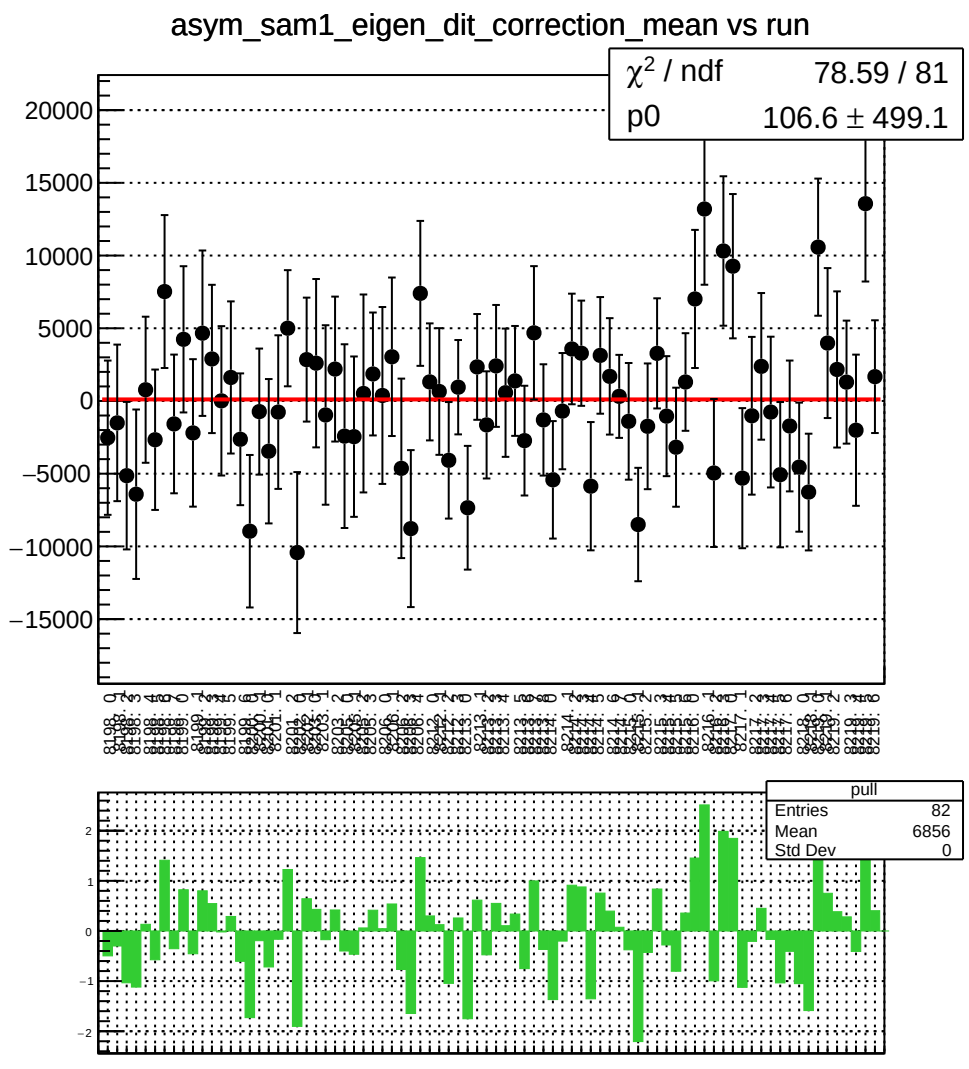

asym_sam1_dit_correction_mean vs run
χ² / ndf 78.59 / 81
p0 106.6 ± 499.1
pull
Entries 82
Mean 6856
Std Dev 0
pull1D
Entries 82
Mean 0.0005586
Std Dev 0.979

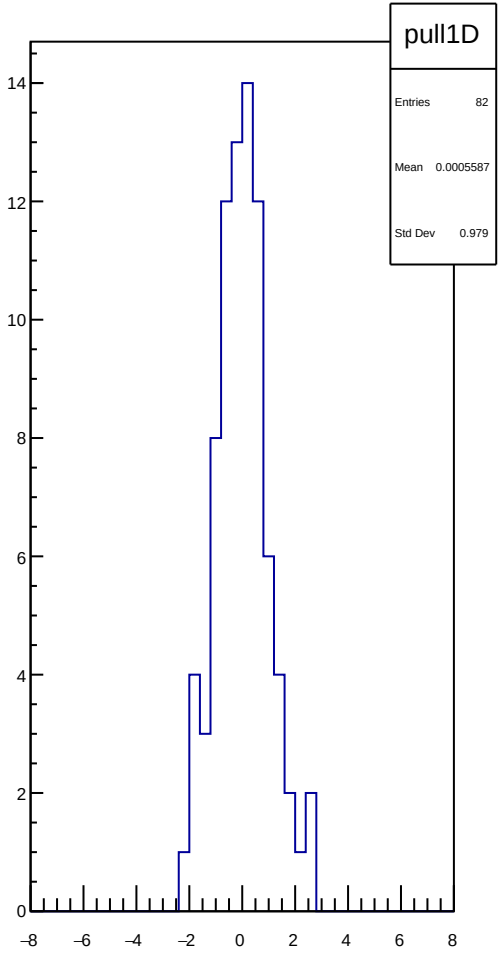

asym_sam1_dit_correction_rms vs run
χ² / ndf 3.874e+04 / 81
p0 443.9 ± 0.3529
650
600
550
500
450
400
350

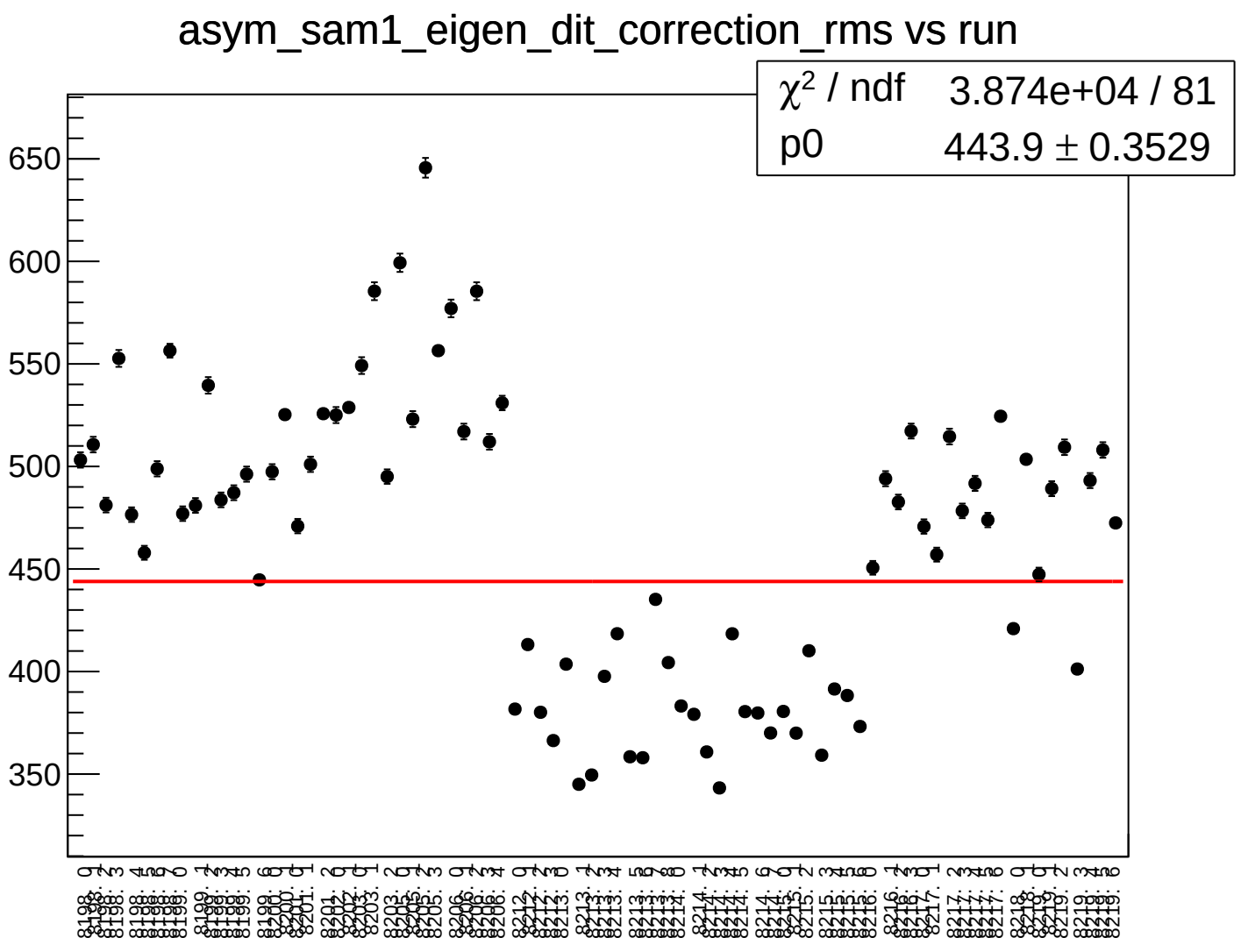

eigen_dit_asym_sam1_mean vs run
χ² / ndf 90.51 / 81
p0 13.1 ± 82.23
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean −35.82
Std Dev 0
2
1
0
−1
−2
−3

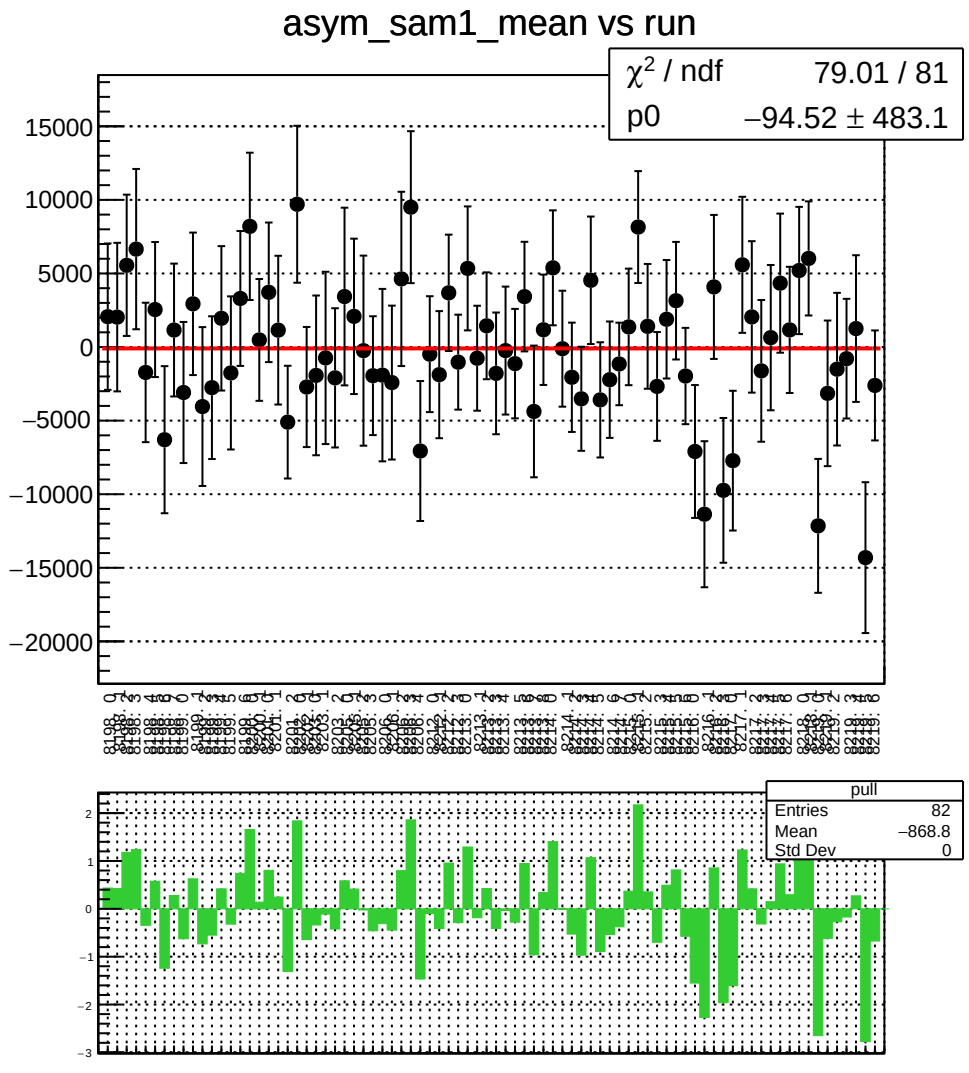

pull1D
Entries 82
Mean 0.03068
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

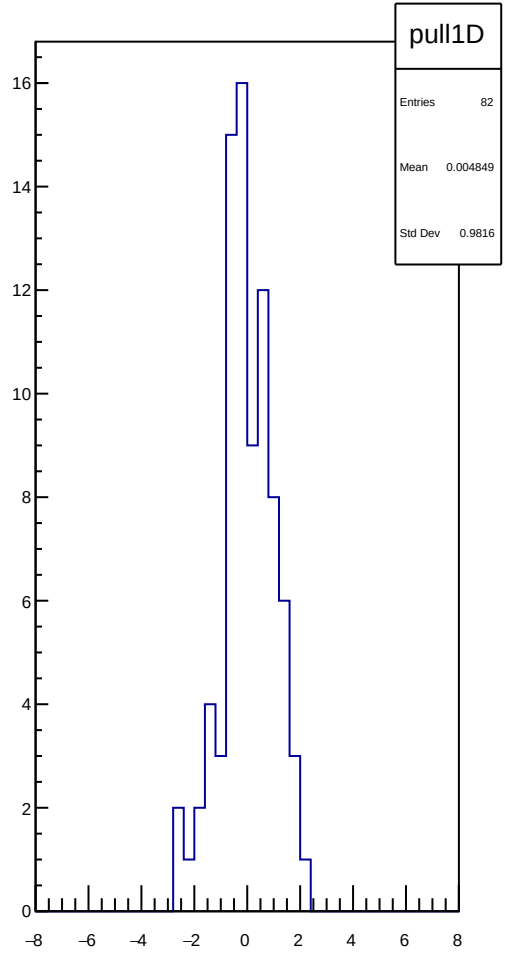

eigen_dit_asym_sam1_rms vs run
χ² / ndf 6454 / 81
p0 73.89 ± 0.05815
85
80
75
70
65

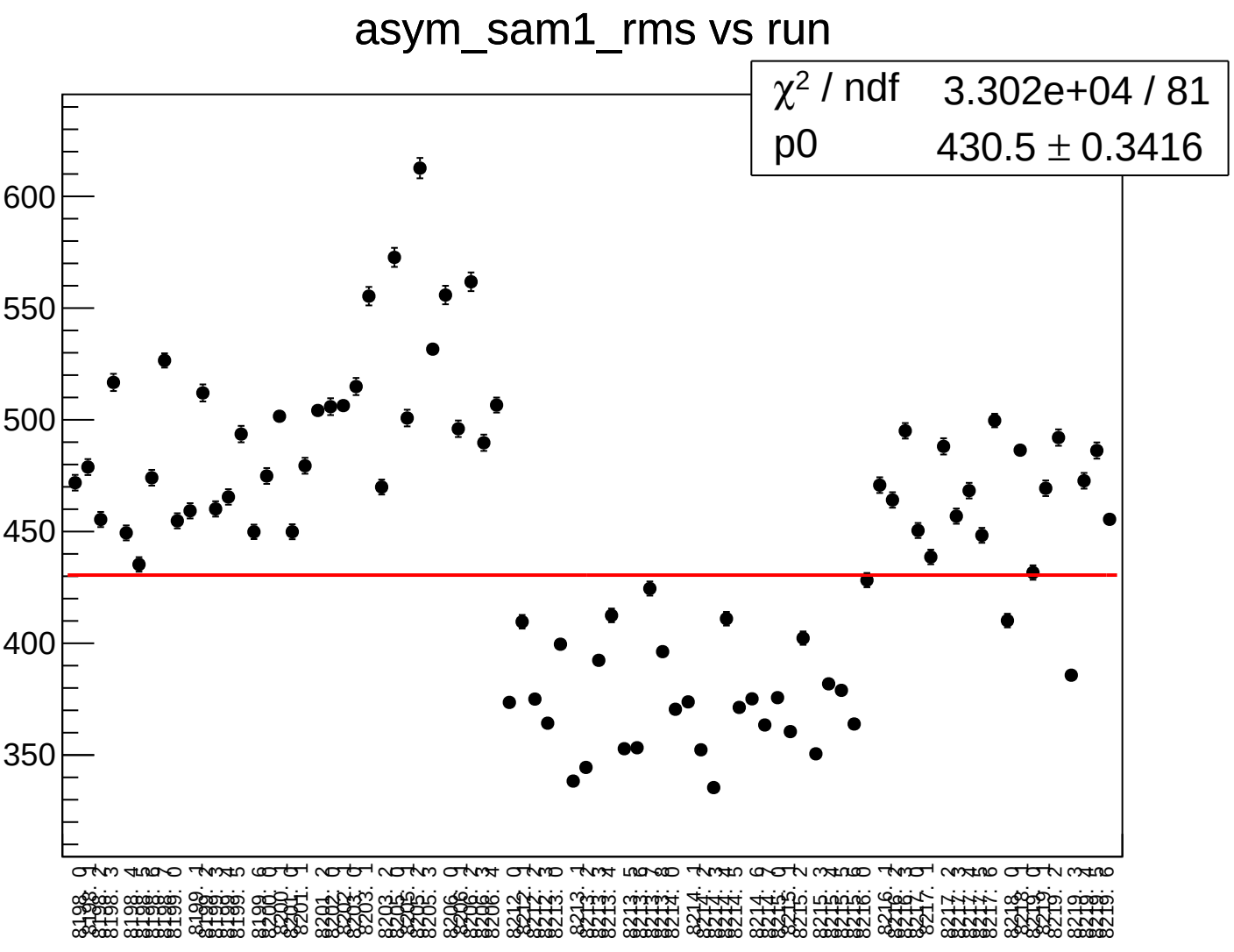

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 78.59 / 81
p0 106.6 ± 499.1
pull
Entries 82
Mean 6856
Std Dev 0

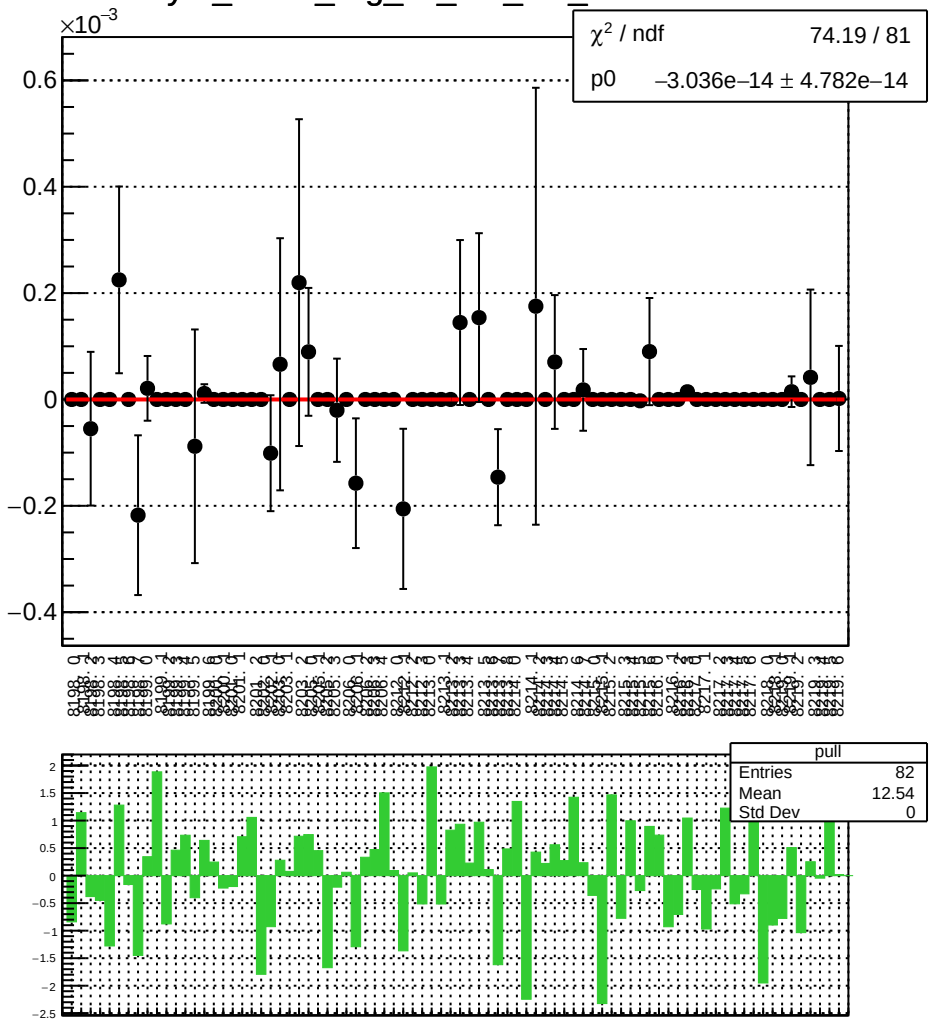

pull1D
Entries 82
Mean 0.0005587
Std Dev 0.979

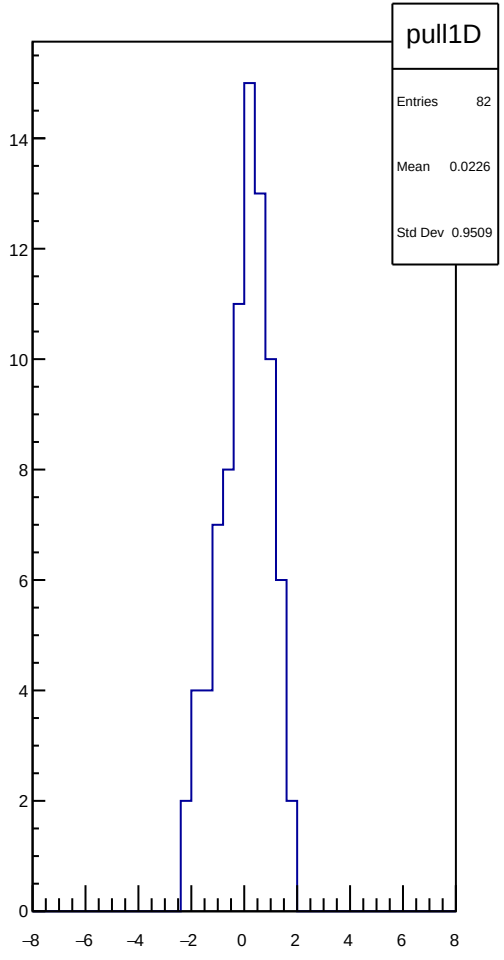

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 3.874e+04 / 81
p0 443.9 ± 0.3529
650
600
550
500
450
400
350

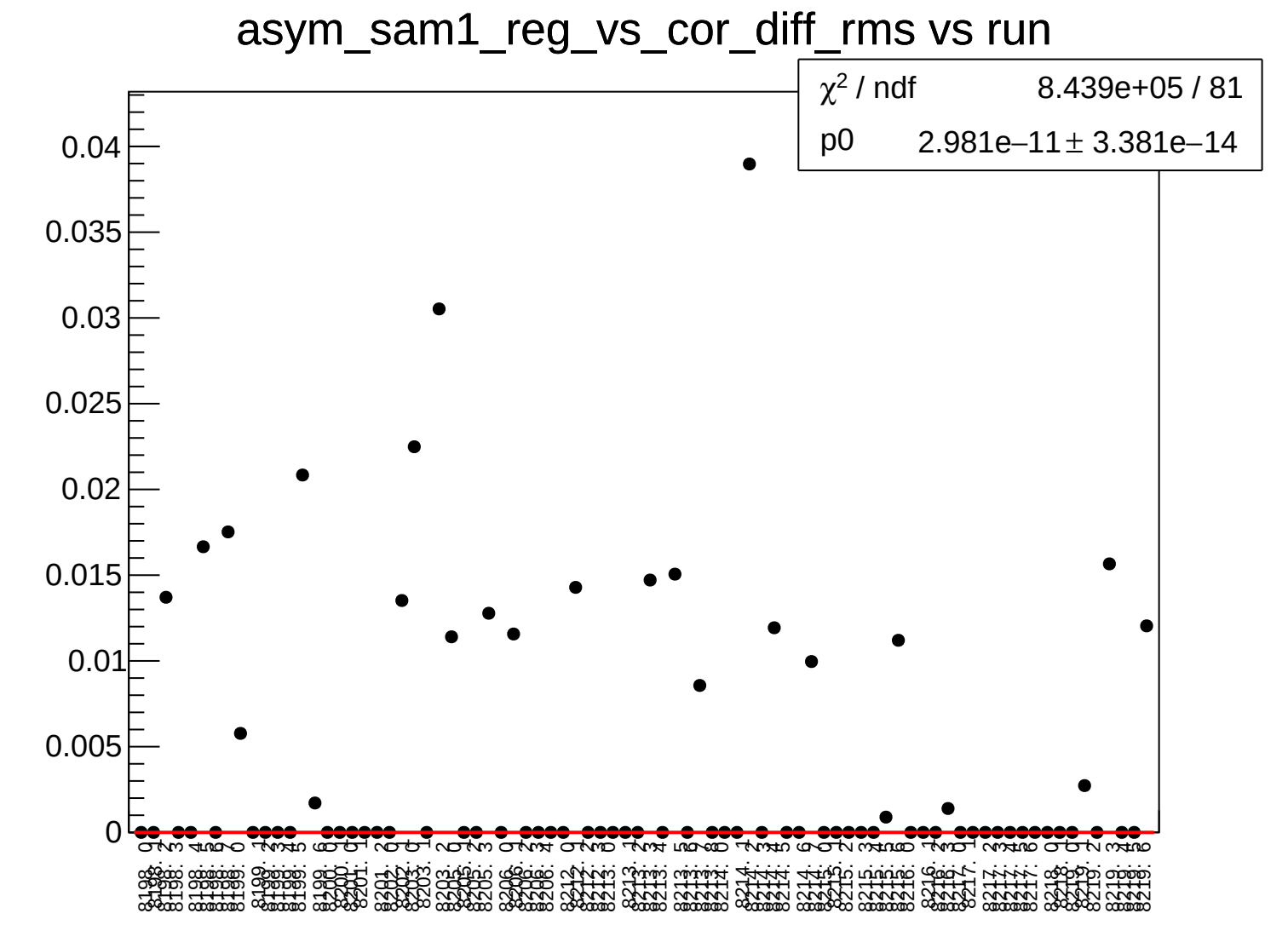

asym_sam1_mean vs run
χ² / ndf 79.01 / 81
p0 −94.52 ± 483.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean −868.8
Std Dev 0
2
1
0
−1
−2
−3

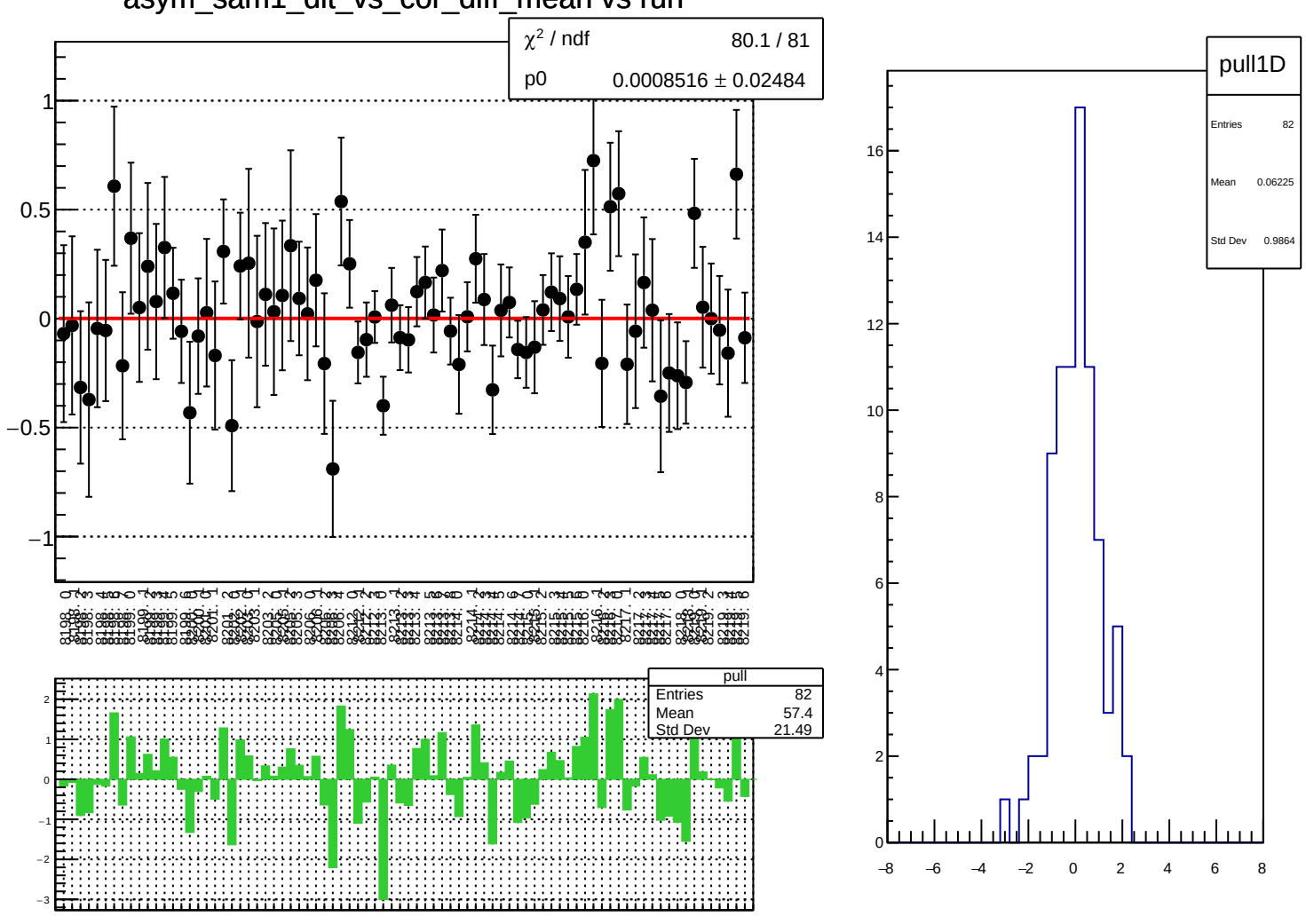

pull1D
Entries 82
Mean 0.004849
Std Dev 0.9816
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

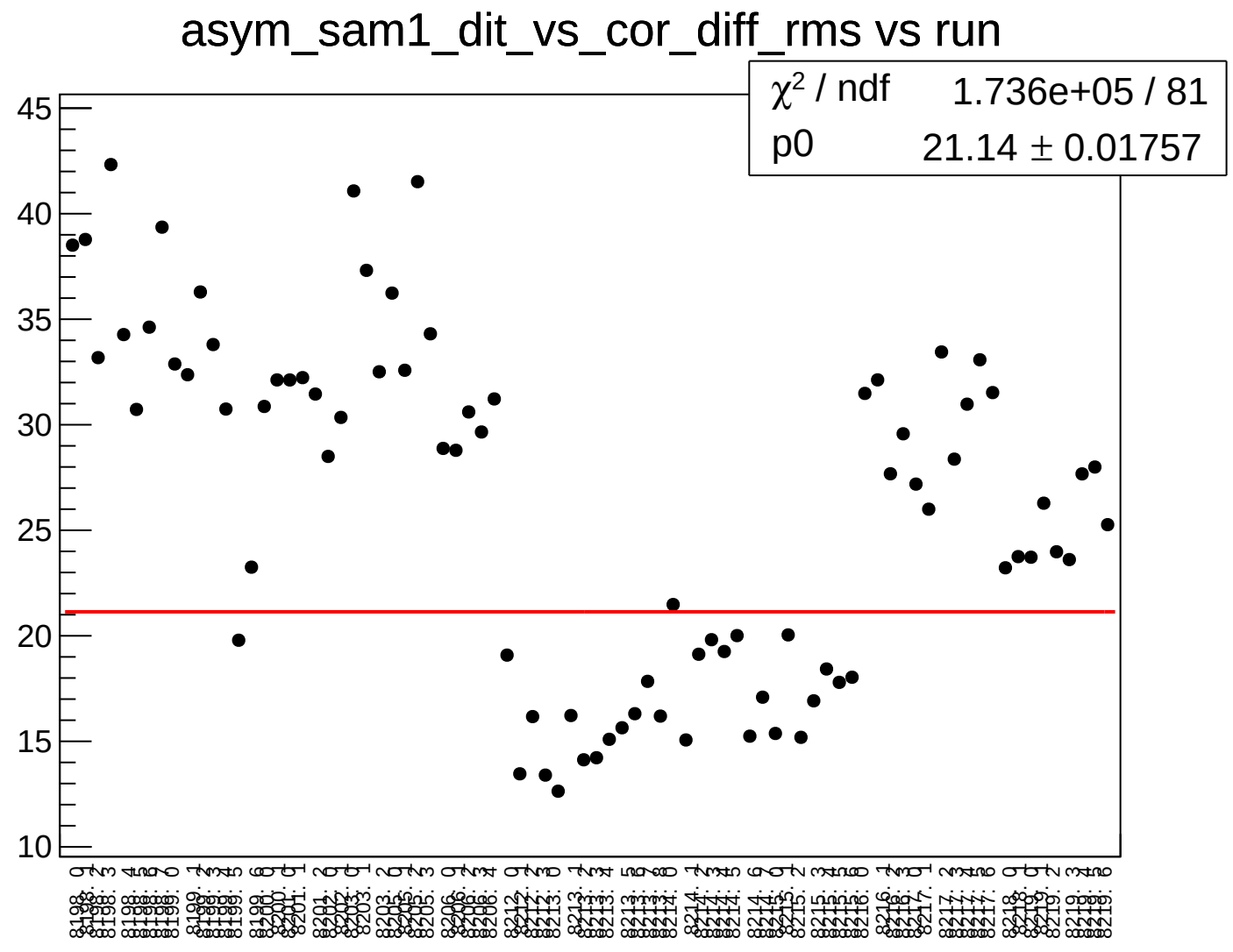

asym_sam1_rms vs run
χ² / ndf 3.302e+04 / 81
p0 430.5 ± 0.3416
600
550
500
450
400
350

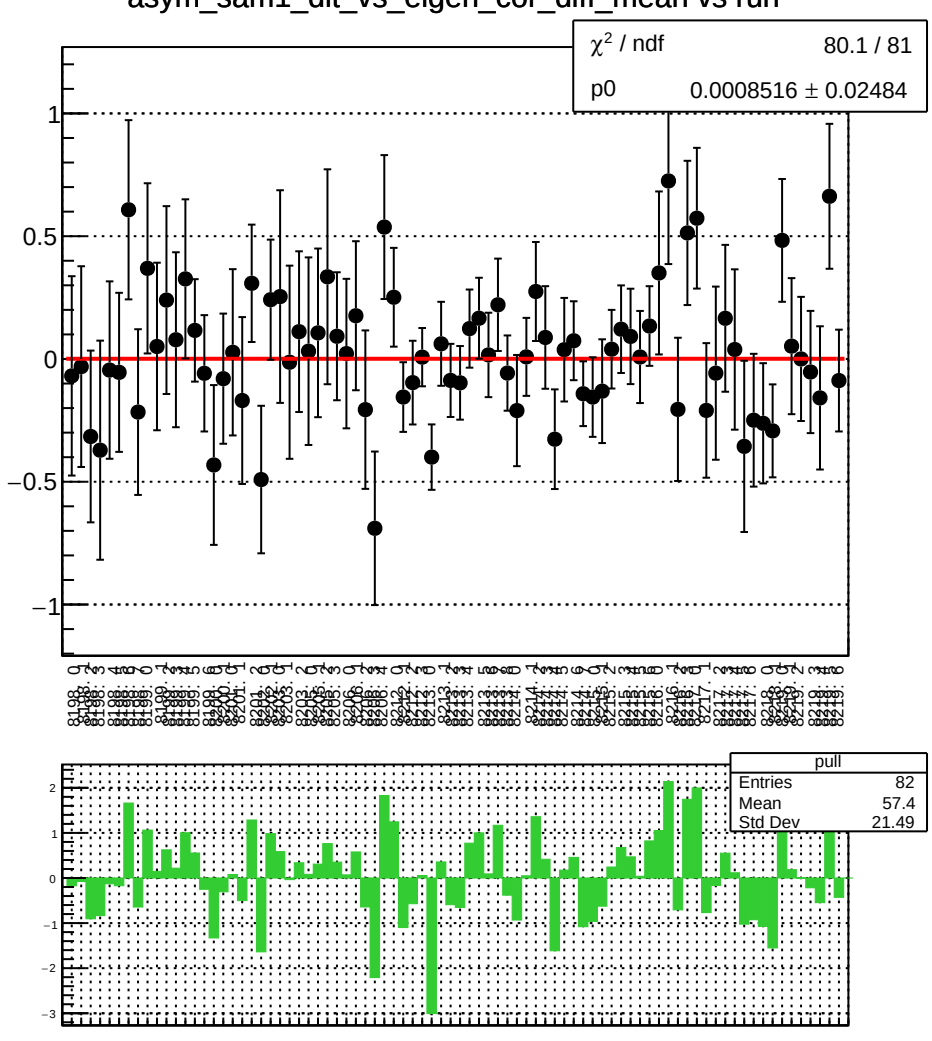

asym_sam1_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 74.19 / 81
p0 −3.036e−14 ± 4.782e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 82
Mean 12.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

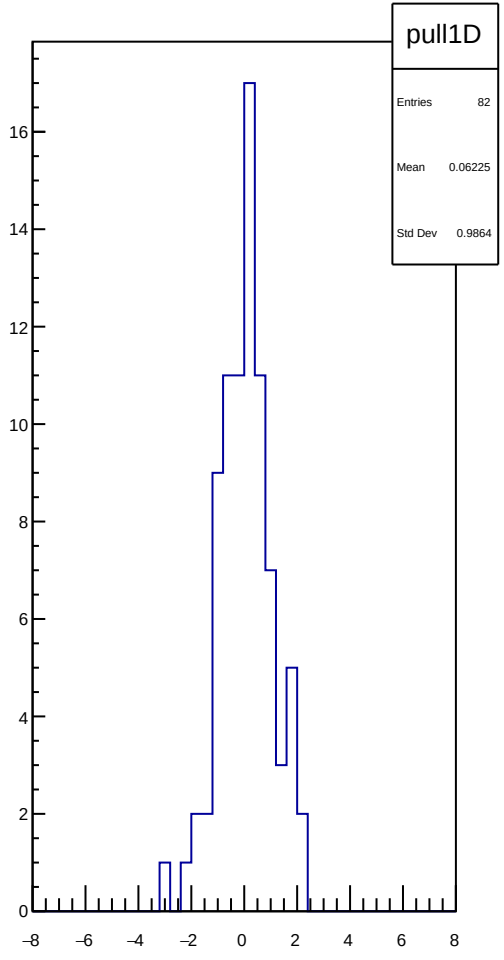

pull1D
Entries 82
Mean 0.0226
Std Dev 0.9509
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

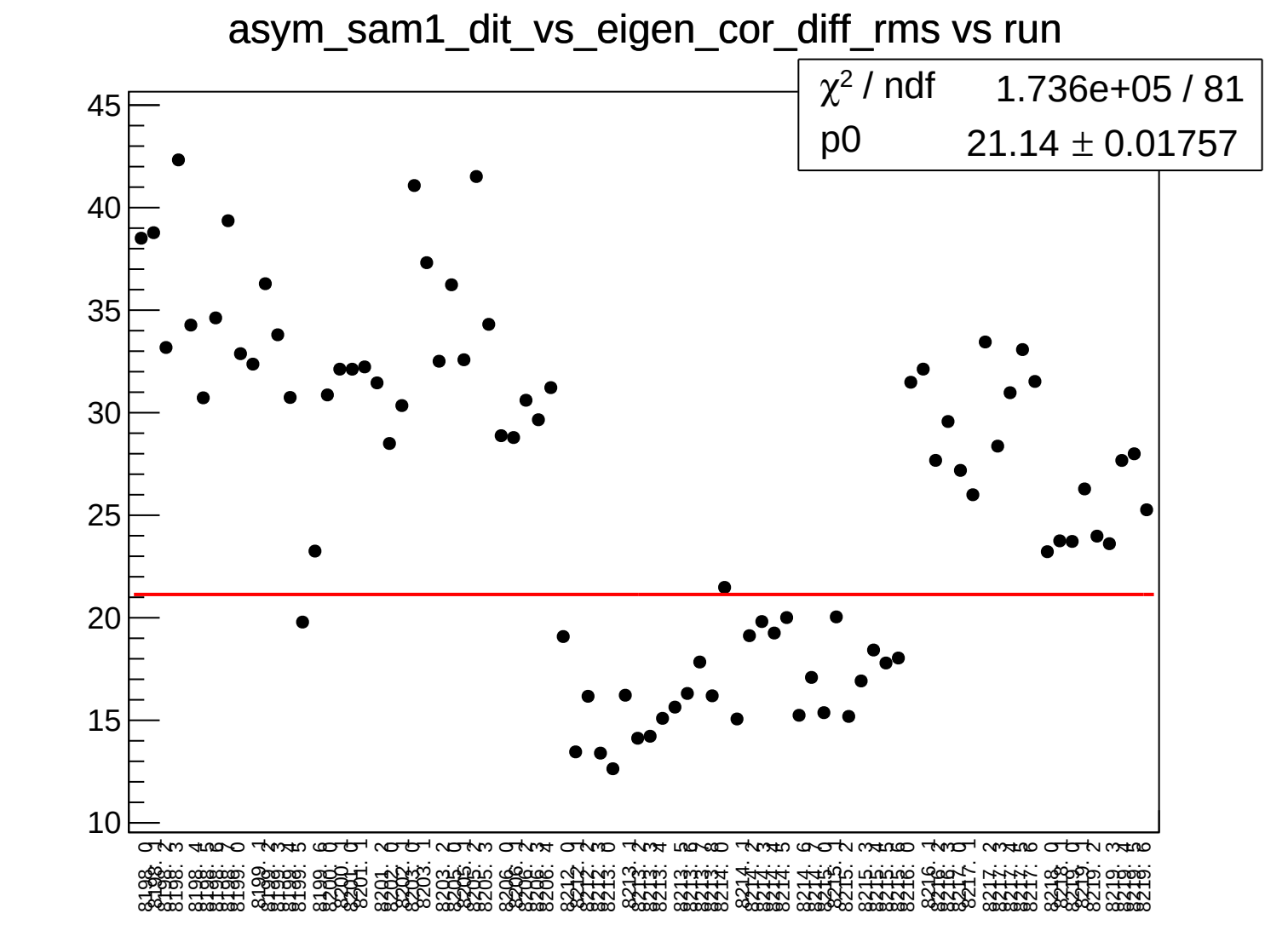

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.439e+05 / 81
p0 2.981e−11 ± 3.381e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

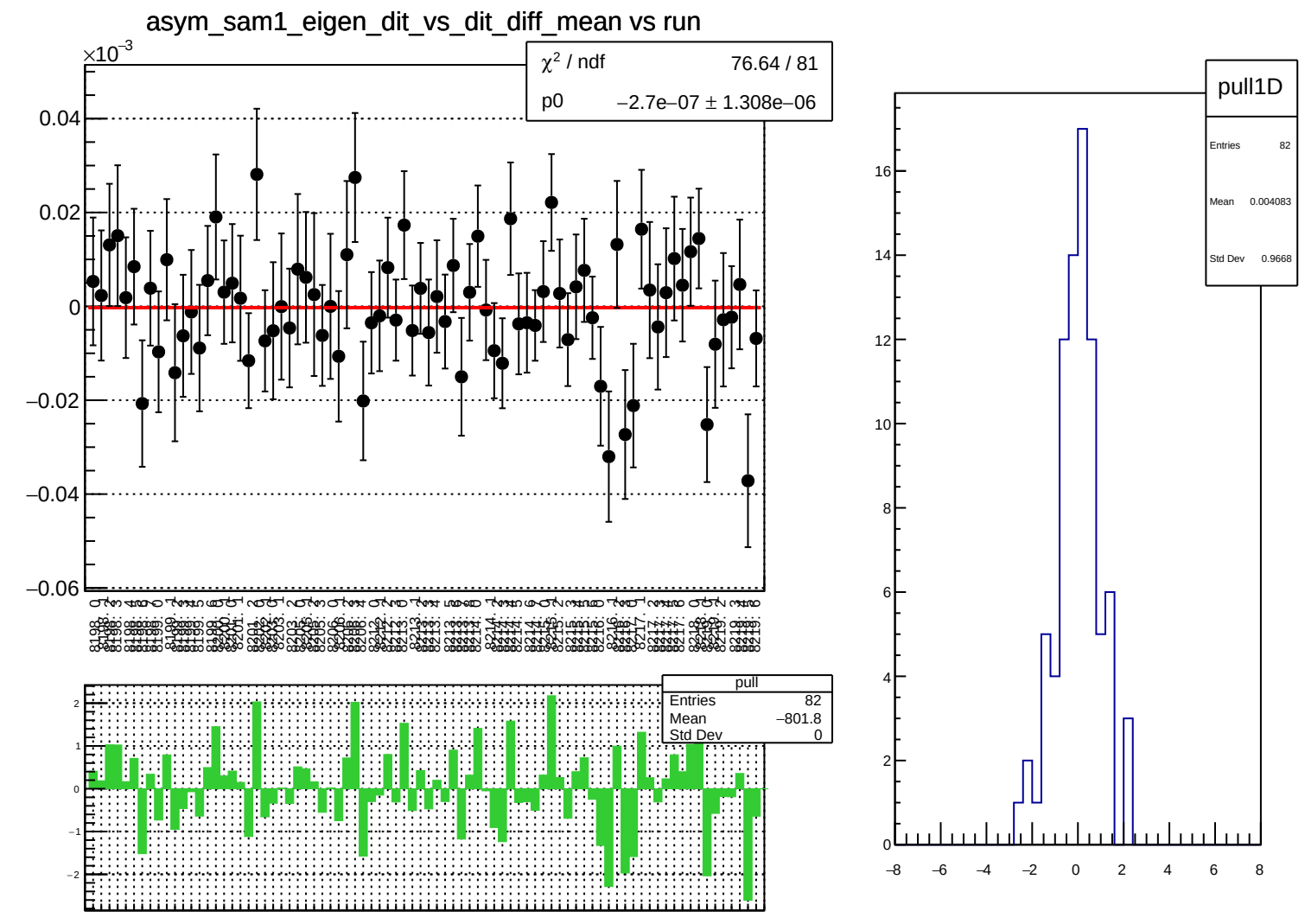

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 80.1 / 81
p0 0.0008516 ± 0.02484
pull
Entries 82
Mean 57.4
Std Dev 21.49
pull1D
Entries 82
Mean 0.06225
Std Dev 0.9864

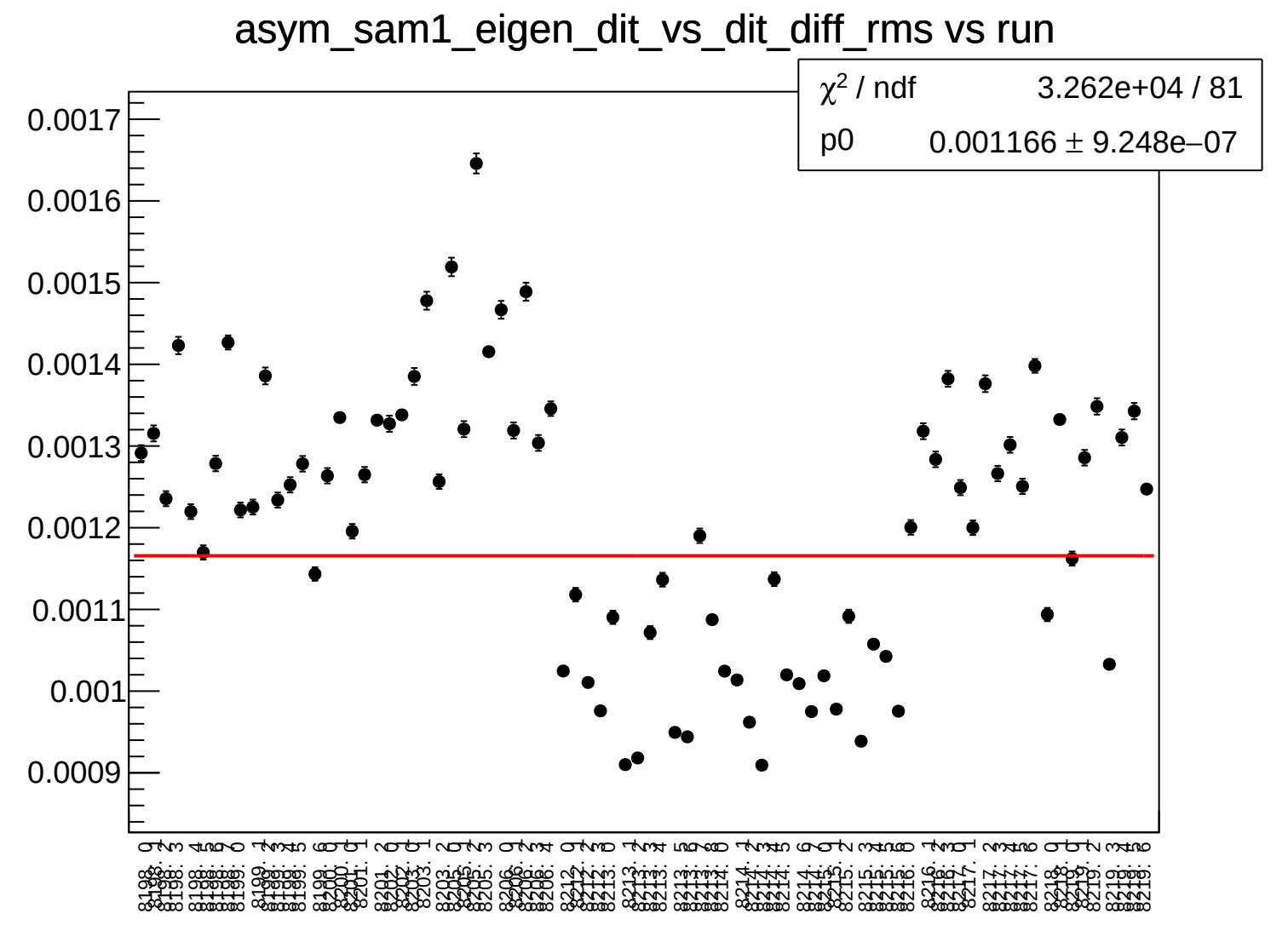

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.736e+05 / 81
p0 21.14 ± 0.01757
45
40
35
30
25
20
15
10

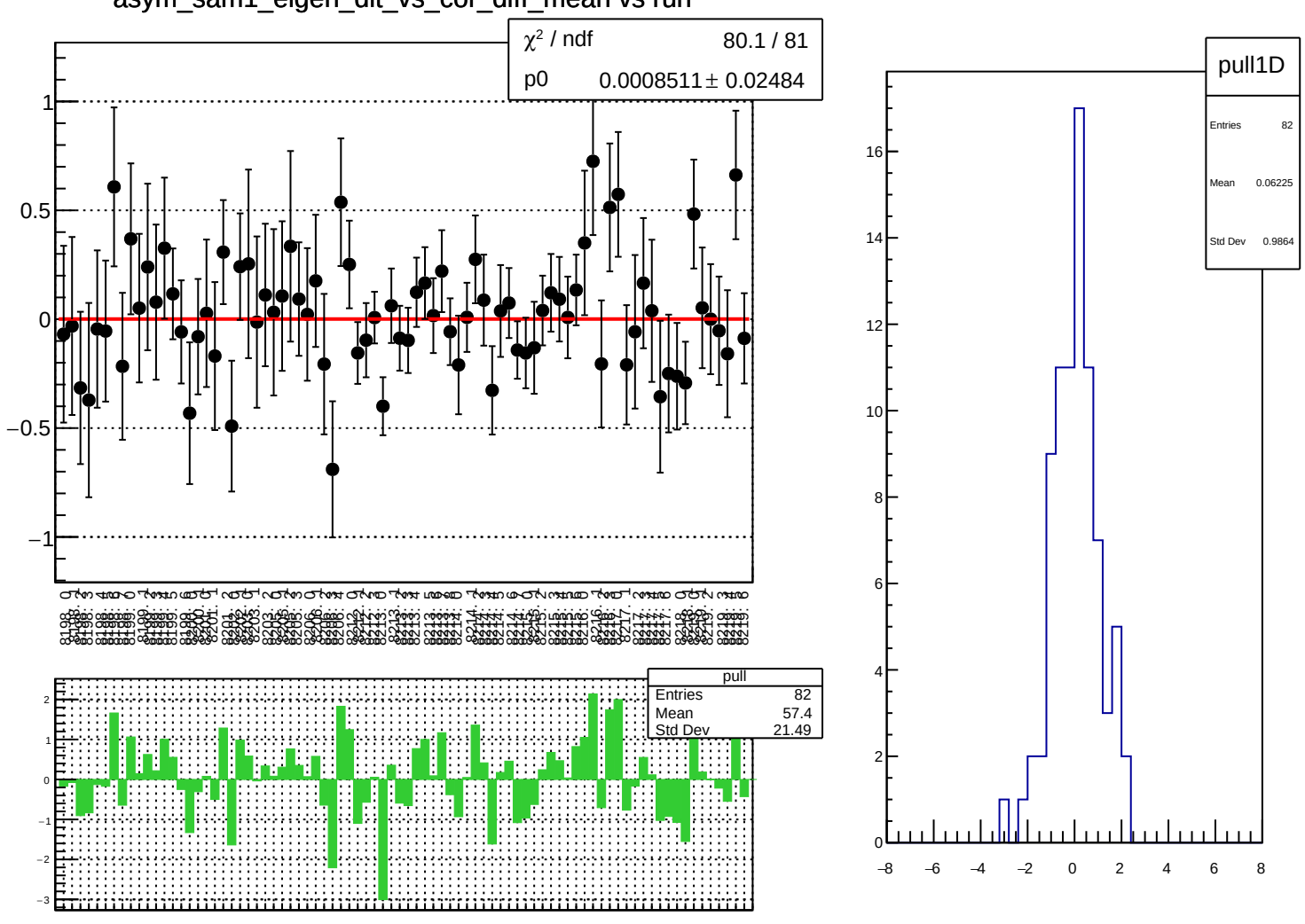

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.1 / 81
p0 0.0008516 ± 0.02484
pull
Entries 82
Mean 57.4
Std Dev 21.49

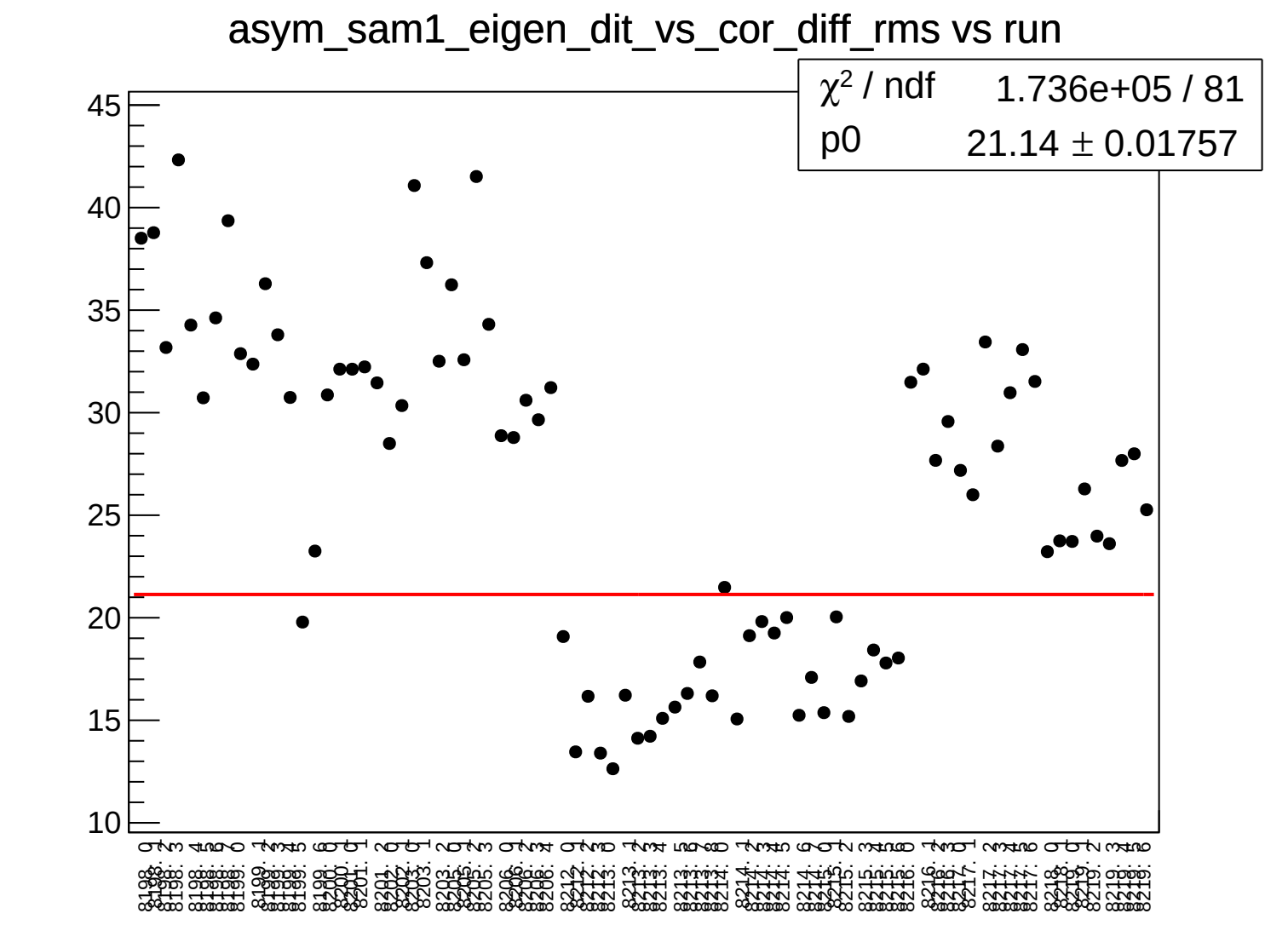

pull1D
Entries 82
Mean 0.06225
Std Dev 0.9864

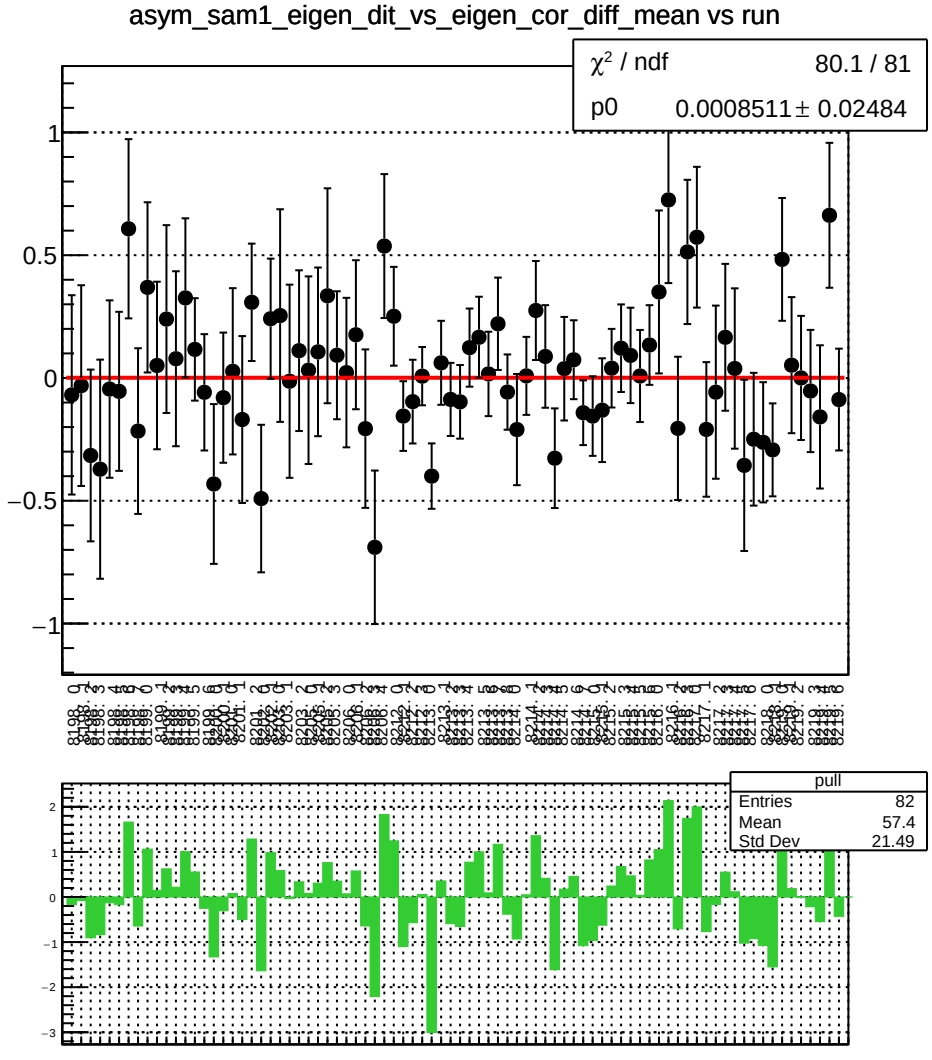

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.736e+05 / 81
p0 21.14 ± 0.01757
45
40
35
30
25
20
15
10

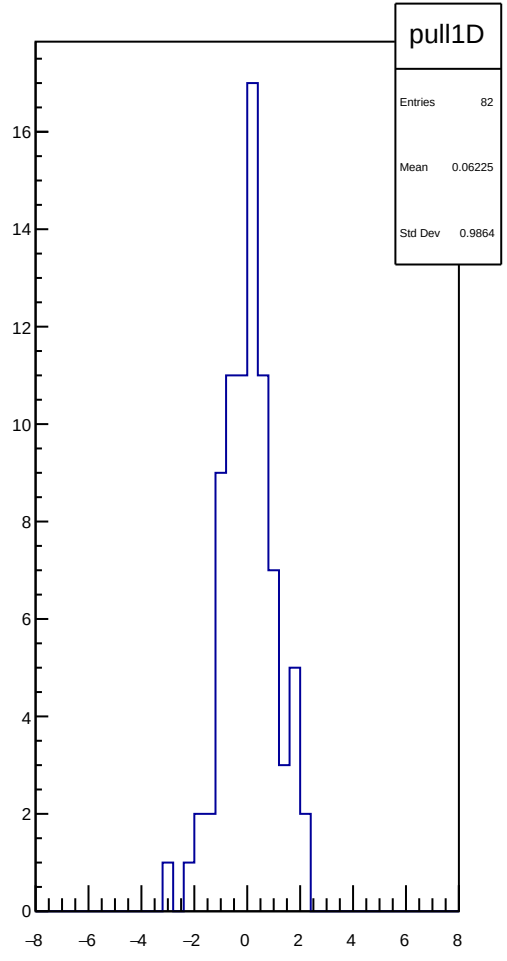

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.64 / 81
p0 −2.7e−07 ± 1.308e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 82
Mean −801.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.004083
Std Dev 0.9668
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

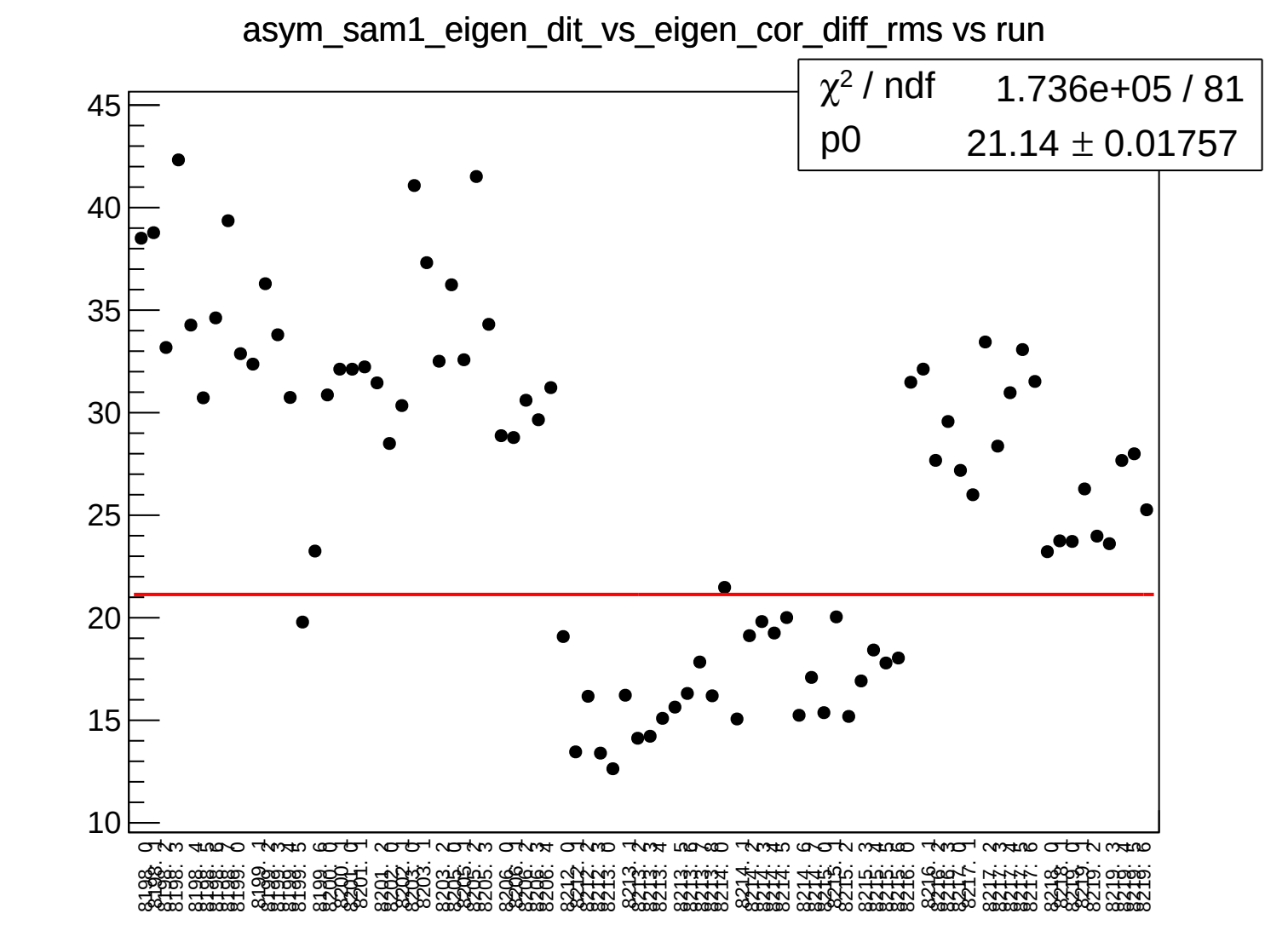

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.262e+04 / 81
p0 0.001166 ± 9.248e−07
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009

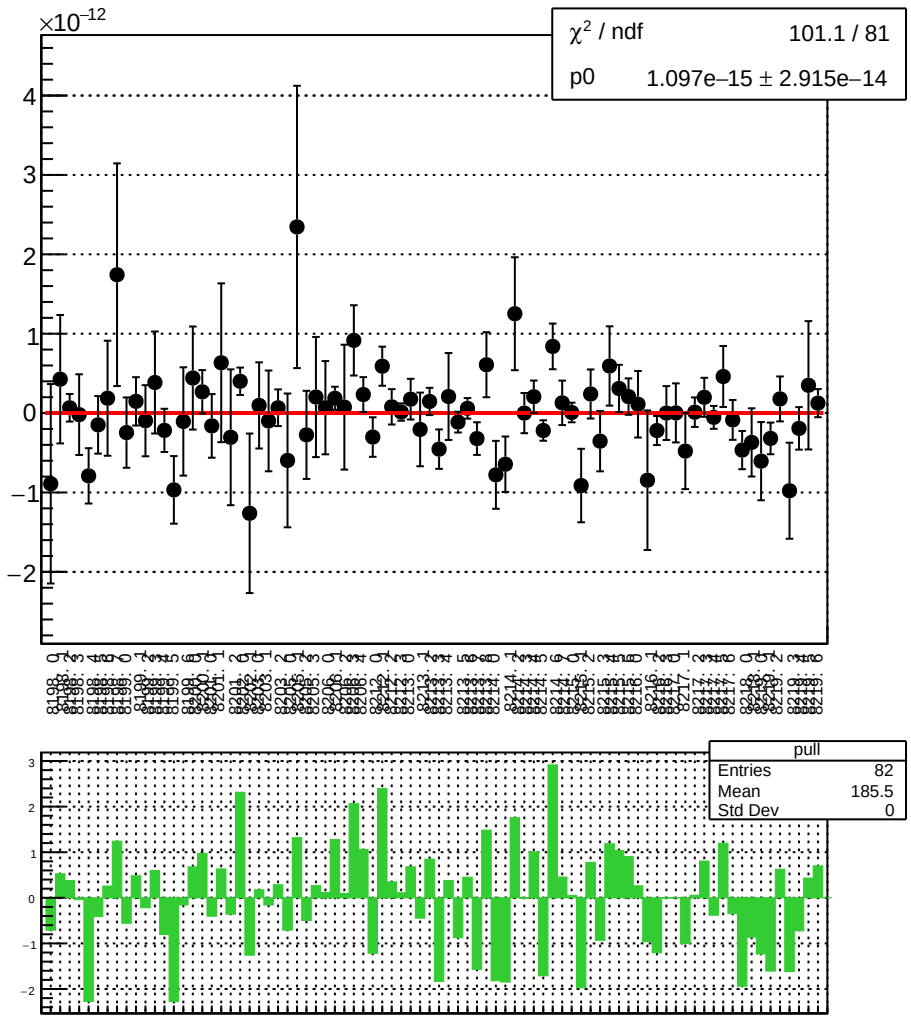

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.1 / 81
p0 0.0008511 ± 0.02484
pull
Entries 82
Mean 57.4
Std Dev 21.49
pull1D
Entries 82
Mean 0.06225
Std Dev 0.9864

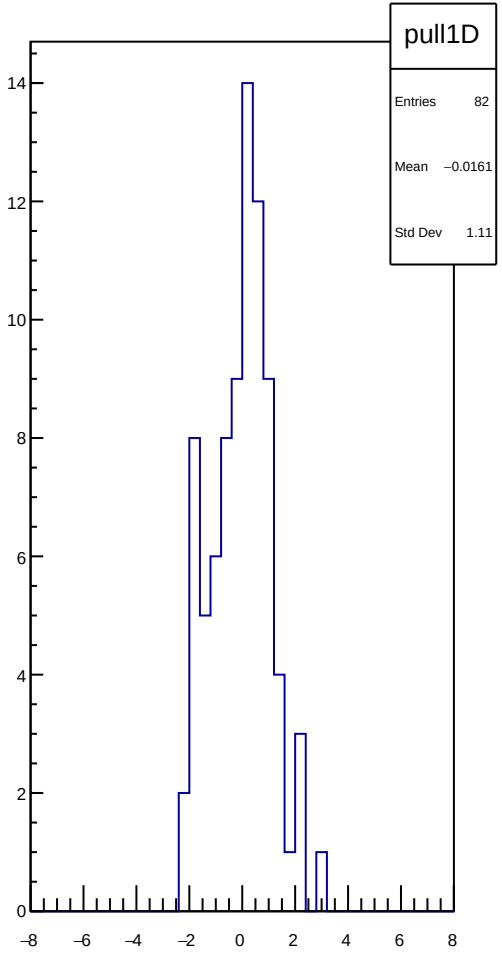

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.736e+05 / 81
p0 21.14 ± 0.01757
45
40
35
30
25
20
15
10

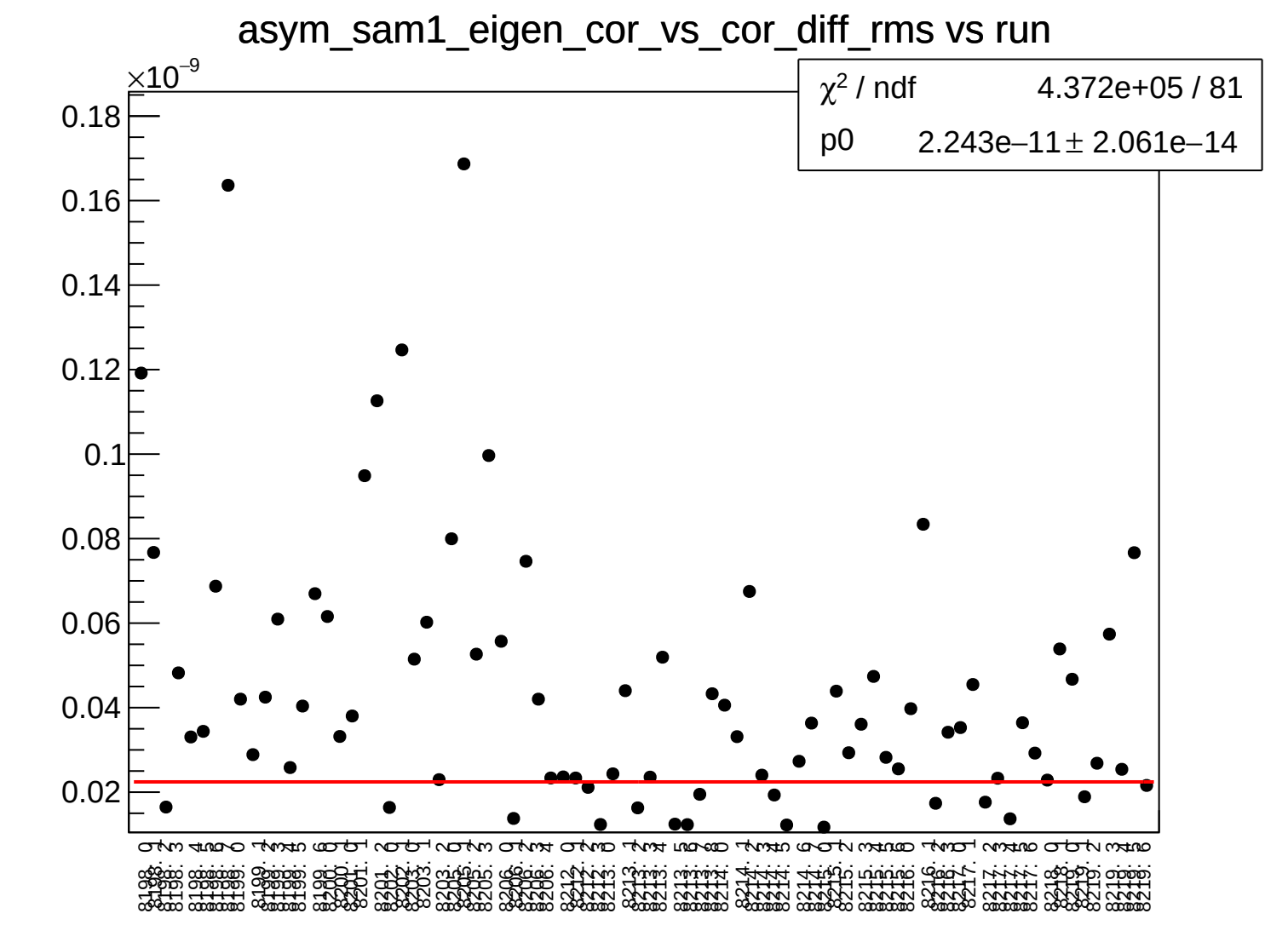

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.1 / 81
p0 0.0008511 ± 0.02484
pull
Entries 82
Mean 57.4
Std Dev 21.49

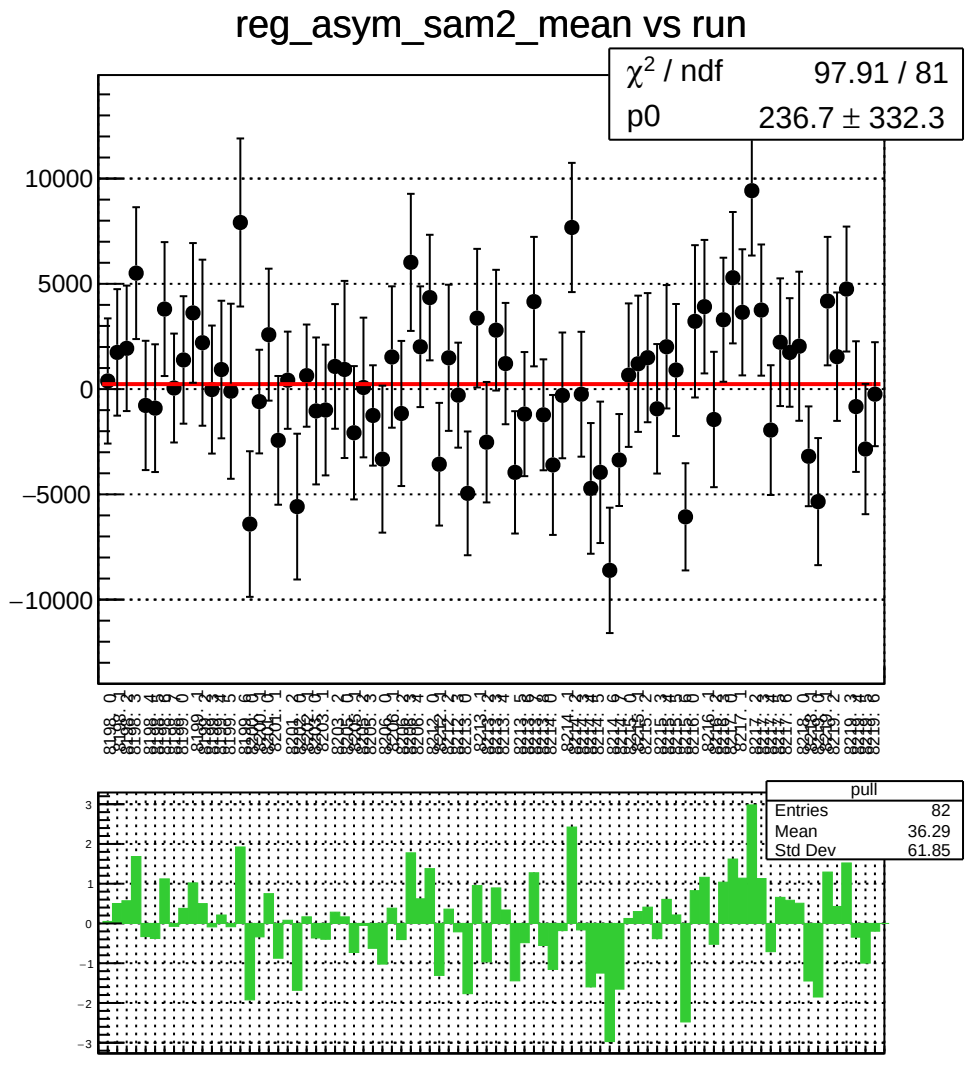

pull1D
Entries 82
Mean 0.06225
Std Dev 0.9864

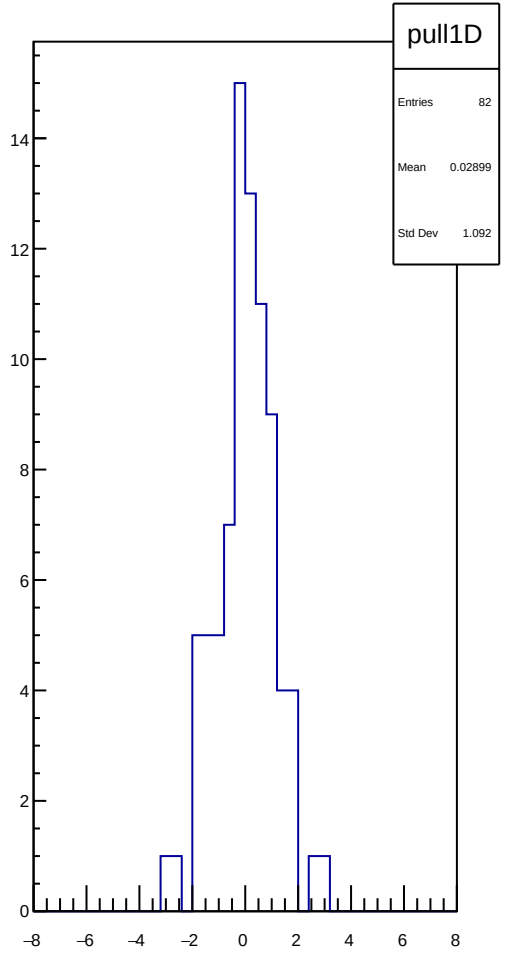

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.736e+05 / 81
p0 21.14 ± 0.01757
45
40
35
30
25
20
15
10

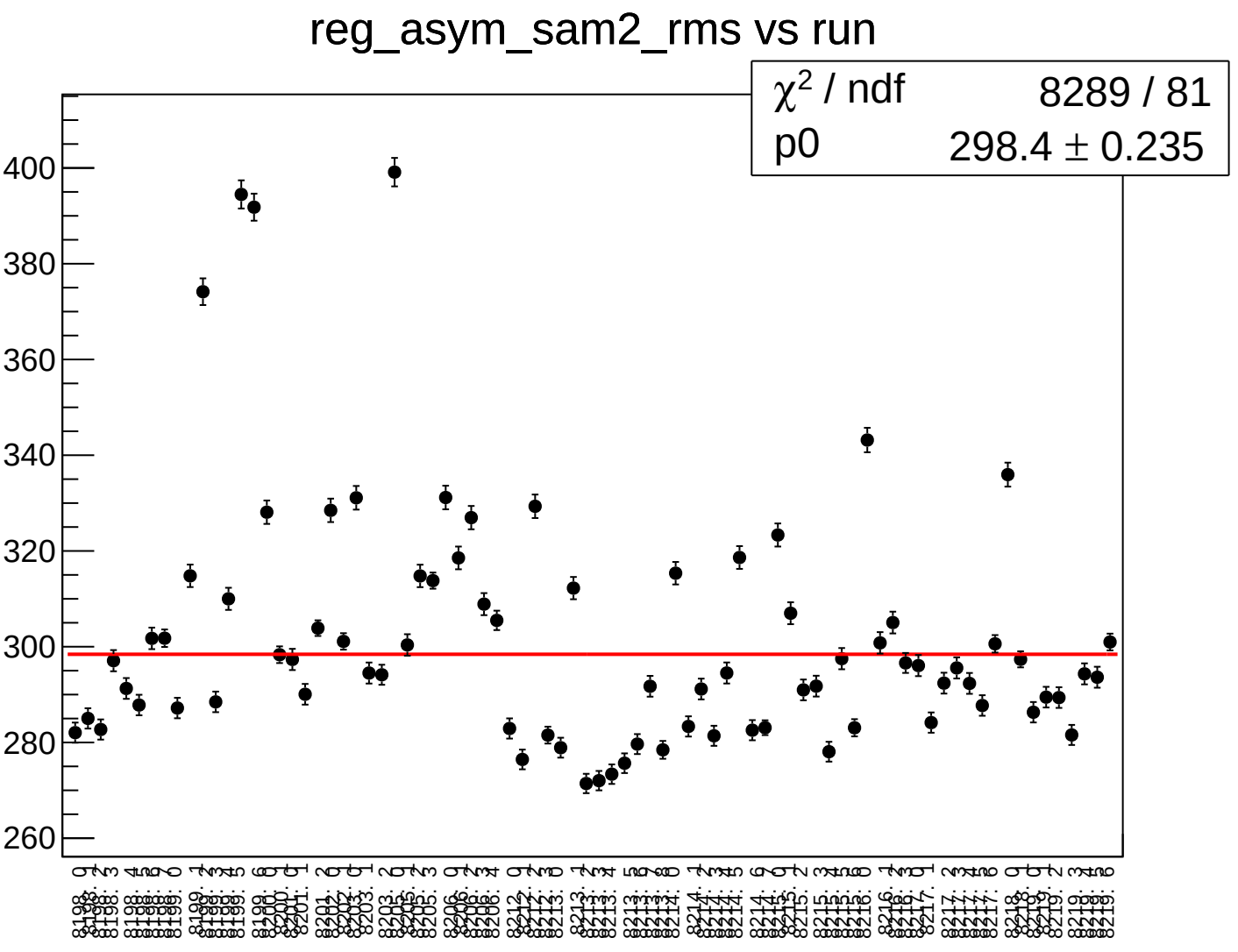

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.1 / 81
p0 1.097e−15 ± 2.915e−14
pull
Entries 82
Mean 185.5
Std Dev 0

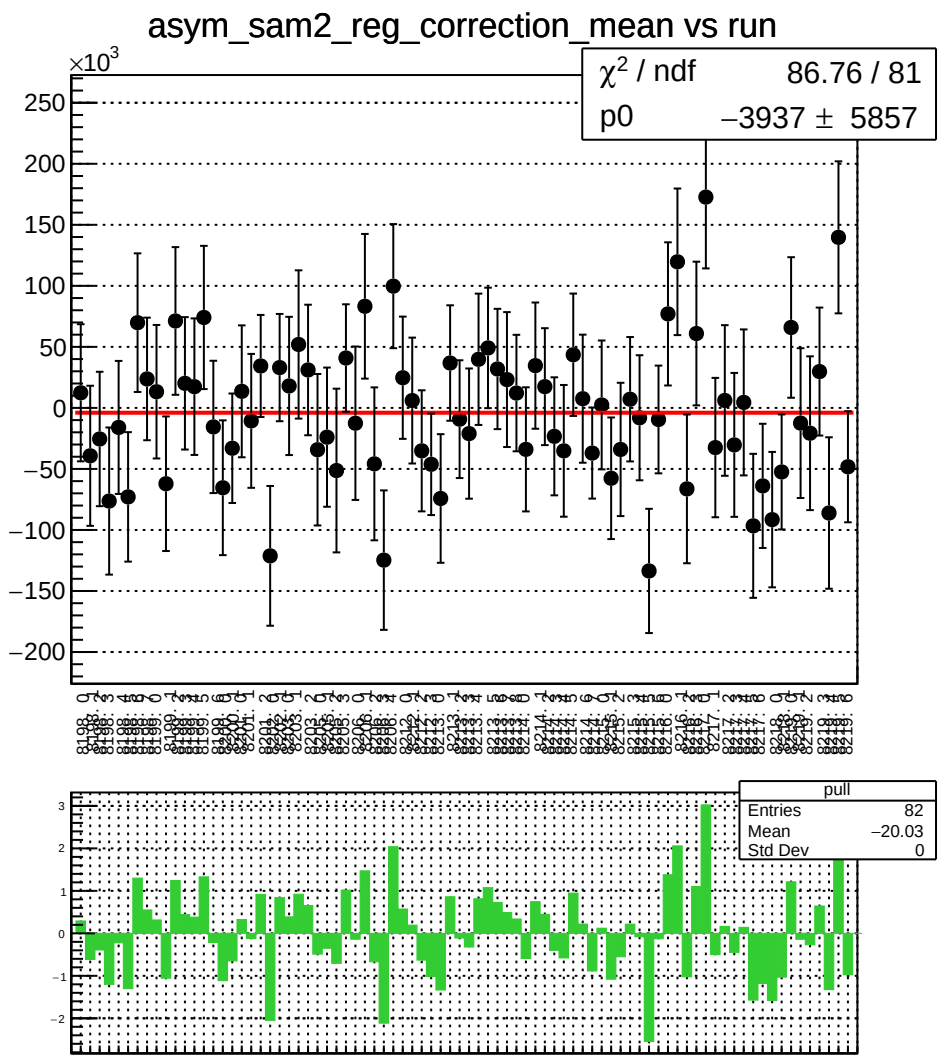

pull1D
Entries 82
Mean −0.0161
Std Dev 1.11

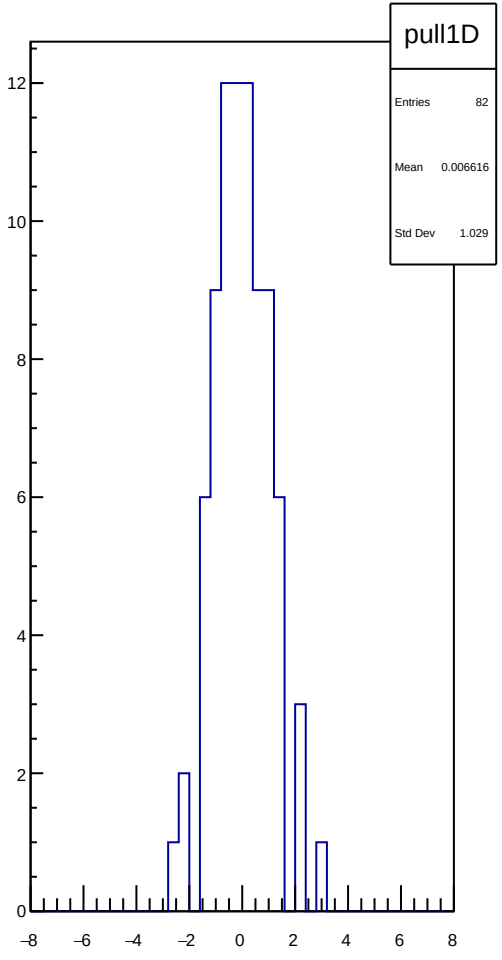

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.372e+05 / 81
p0 2.243e−11 ± 2.061e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

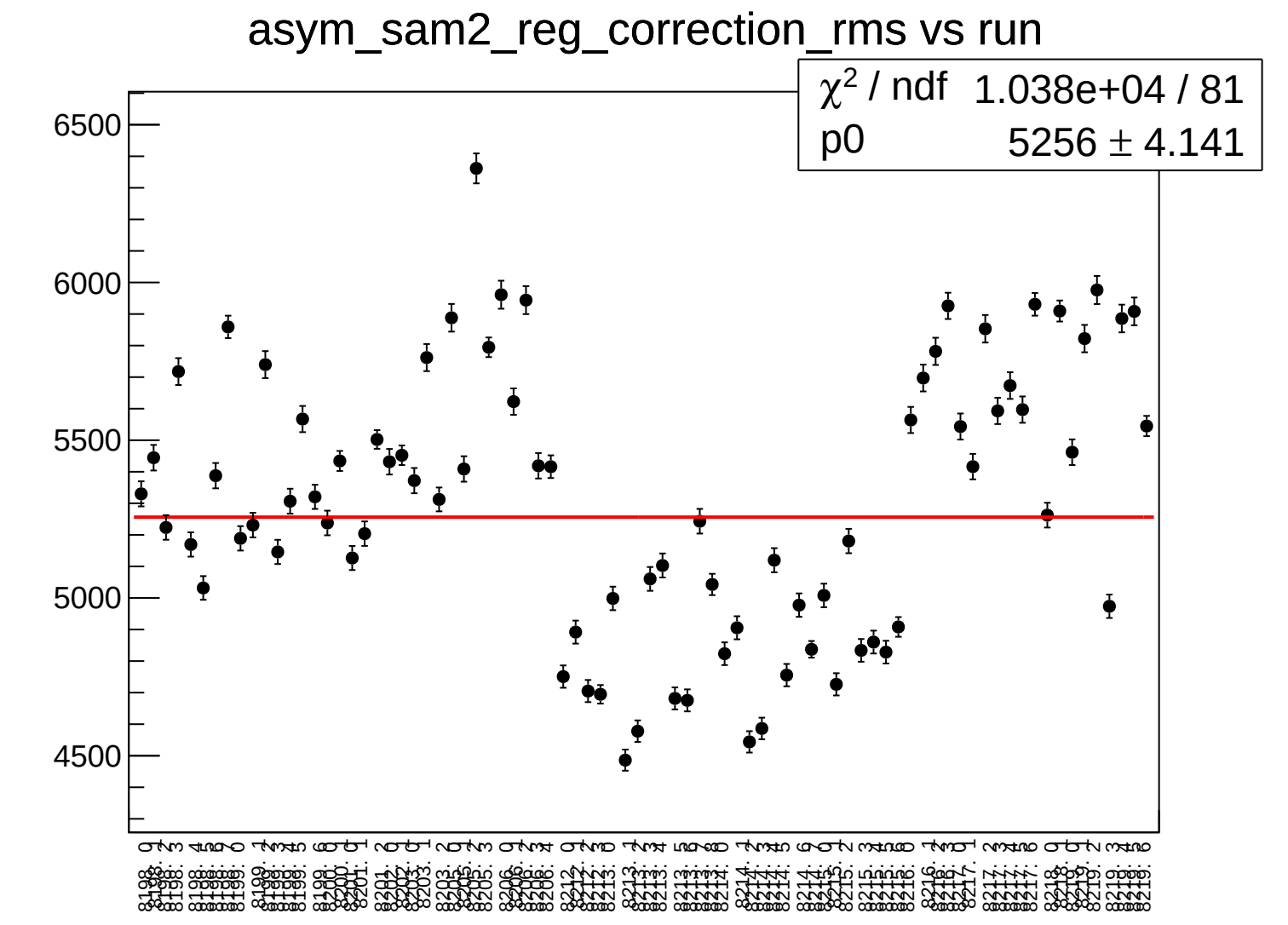

reg_asym_sam2_mean vs run
χ² / ndf 97.91 / 81
p0 236.7 ± 332.3
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 36.29
Std Dev 61.85
3
2
1
0
−1
−2
−3

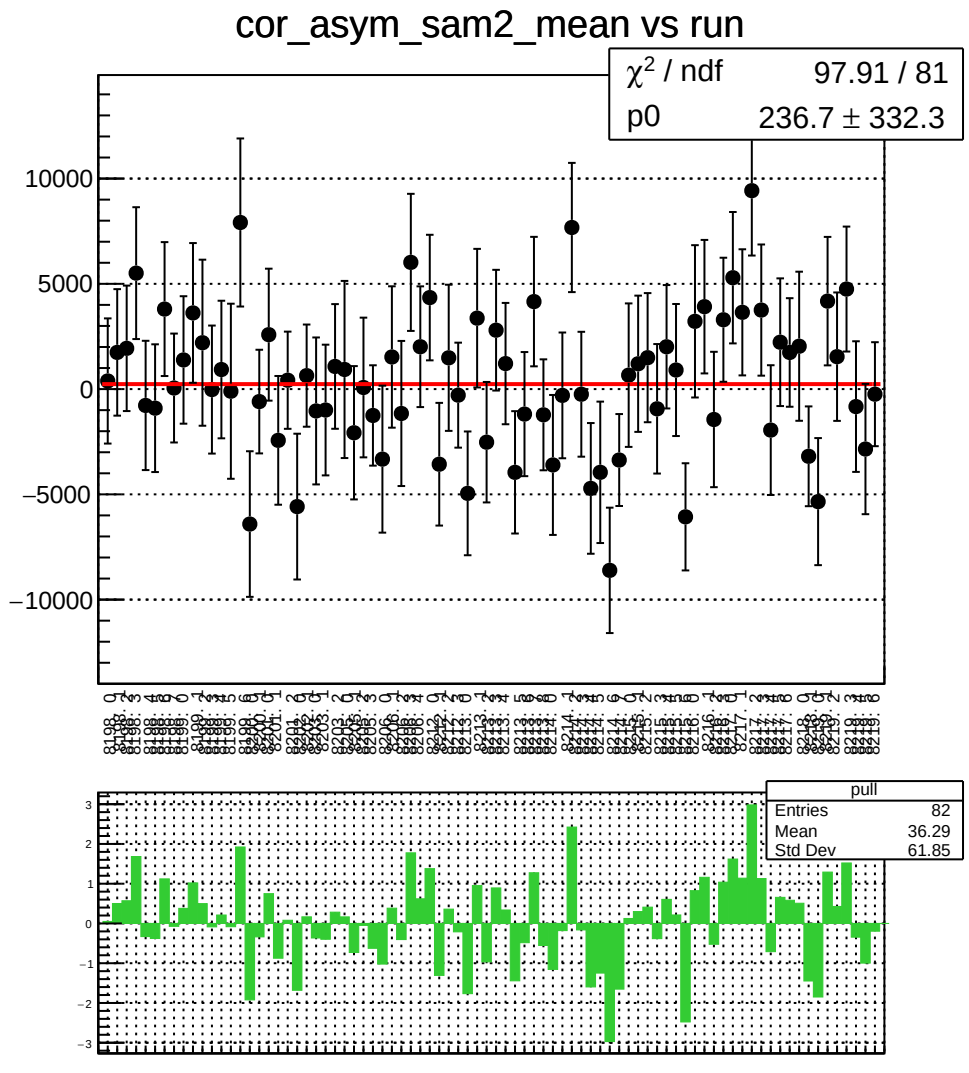

pull1D
Entries 82
Mean 0.02899
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

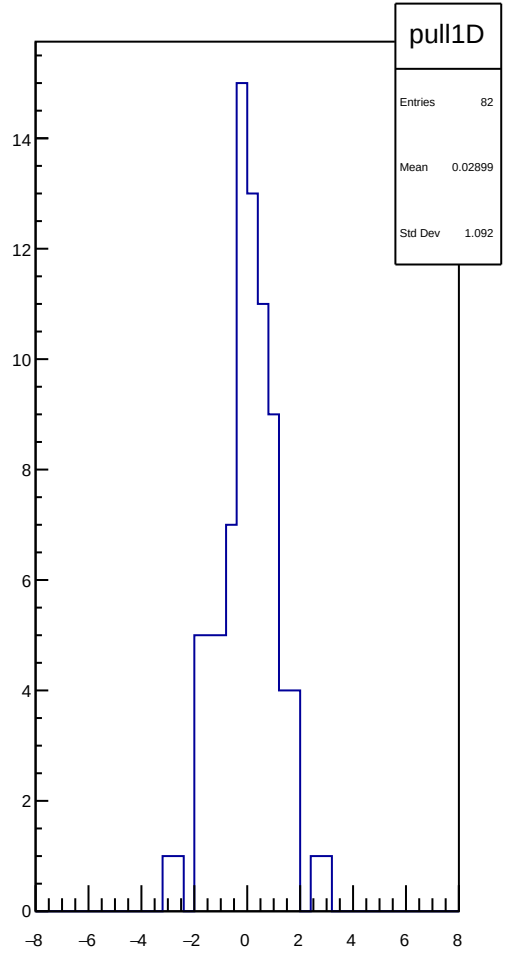

reg_asym_sam2_rms vs run
χ² / ndf 8289 / 81
p0 298.4 ± 0.235
400
380
360
340
320
300
280
260

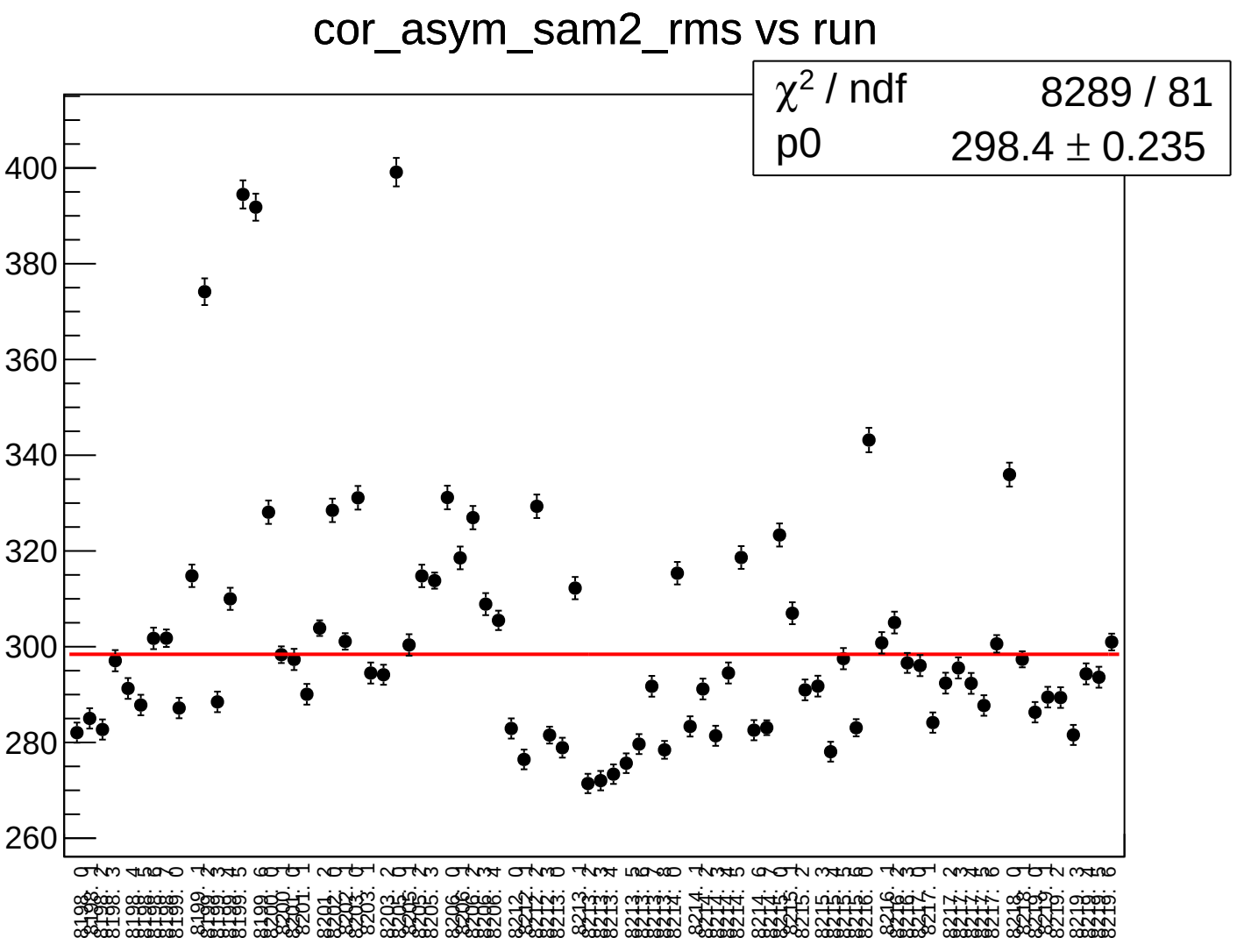

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 86.76 / 81
p0 −3937 ± 5857
250
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −20.03
Std Dev 0
3
2
1
0
−1
−2

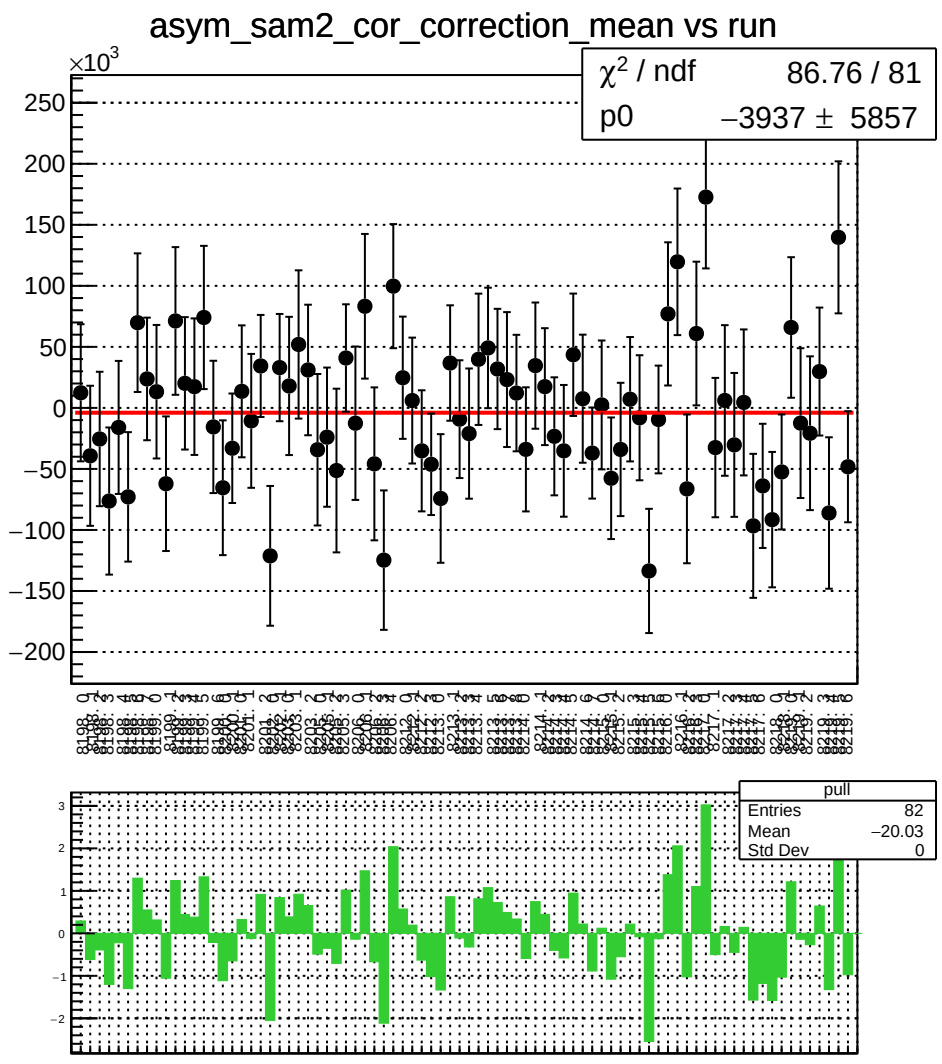

pull1D
Entries 82
Mean 0.006616
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

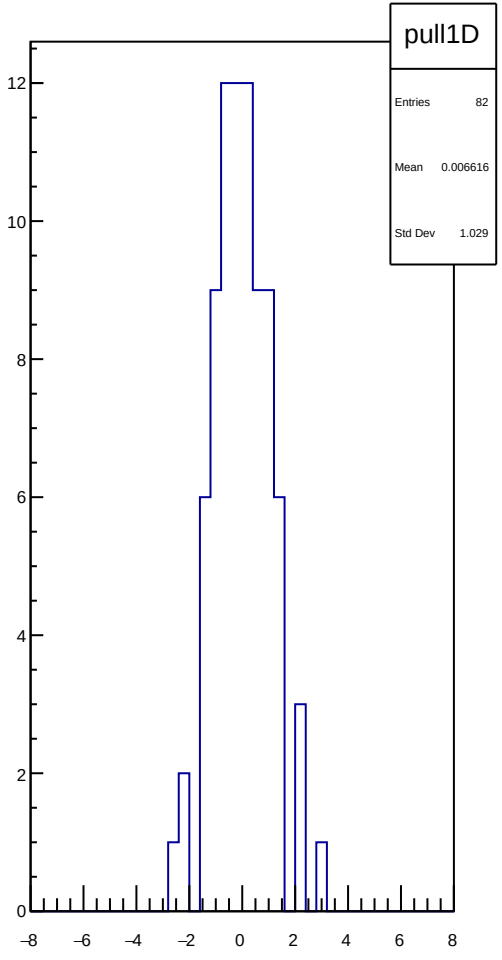

asym_sam2_reg_correction_rms vs run
χ² / ndf 1.038e+04 / 81
p0 5256 ± 4.141
6500
6000
5500
5000
4500


cor_asym_sam2_mean vs run
χ² / ndf 97.91 / 81
p0 236.7 ± 332.3
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 36.29
Std Dev 61.85
3
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.02899
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam2_rms vs run
χ² / ndf 8289 / 81
p0 298.4 ± 0.235
400
380
360
340
320
300
280
260


asym_sam2_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.76 / 81
p0 −3937 ± 5857
250
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −20.03
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 82
Mean 0.006616
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
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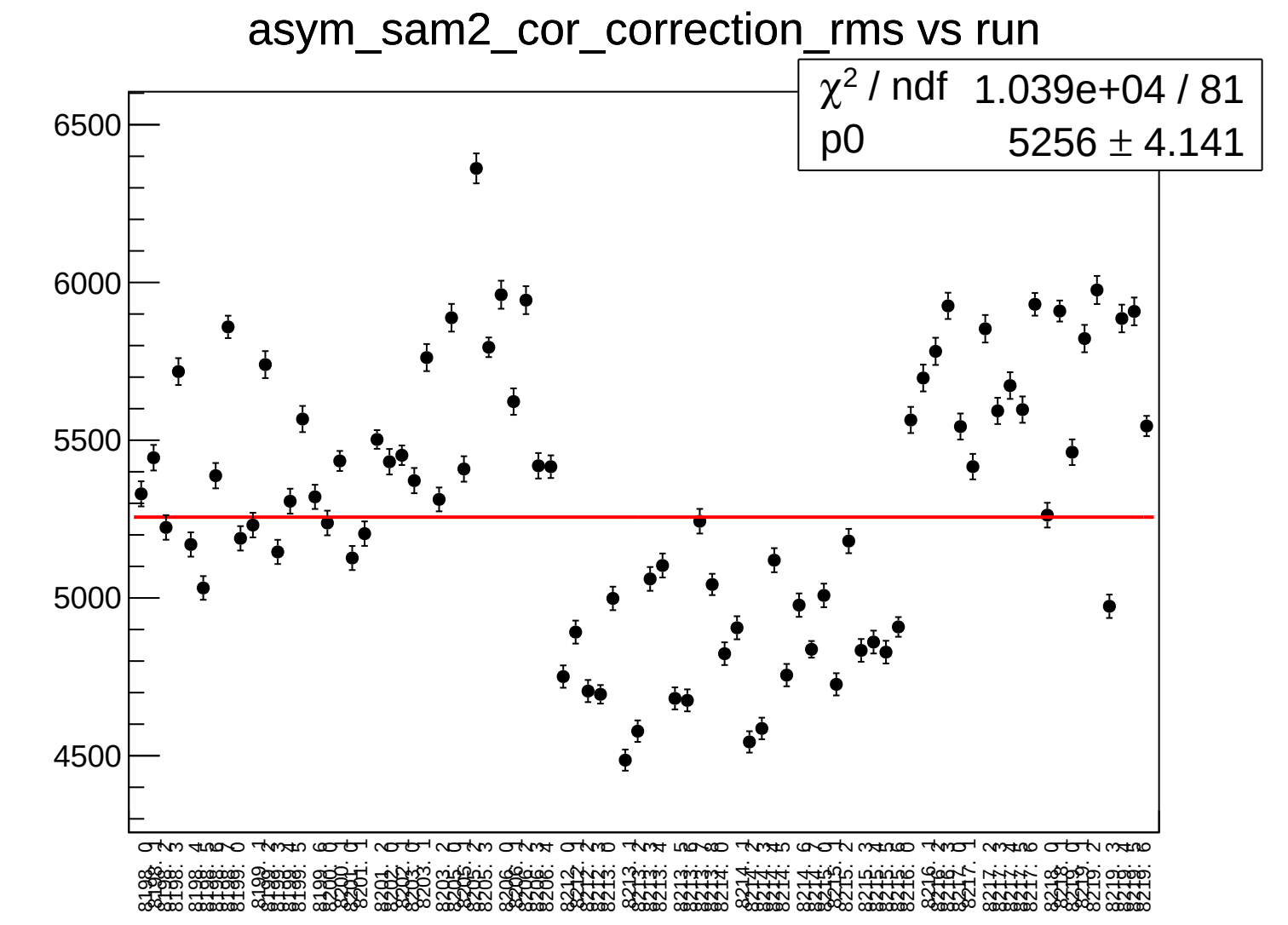
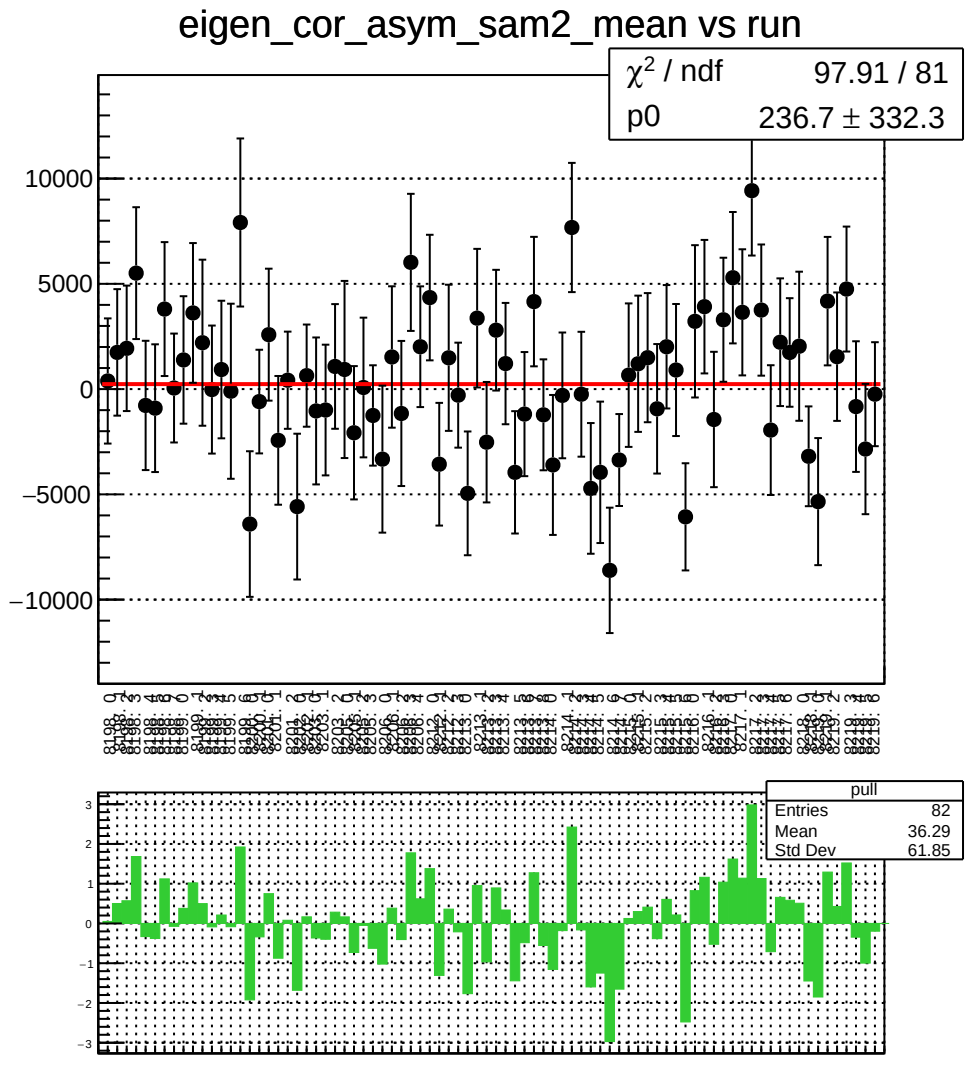
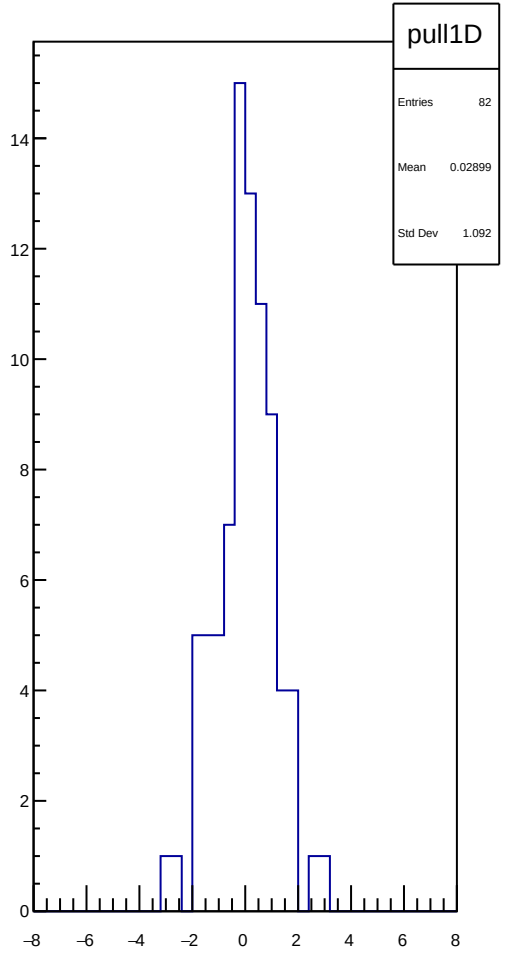
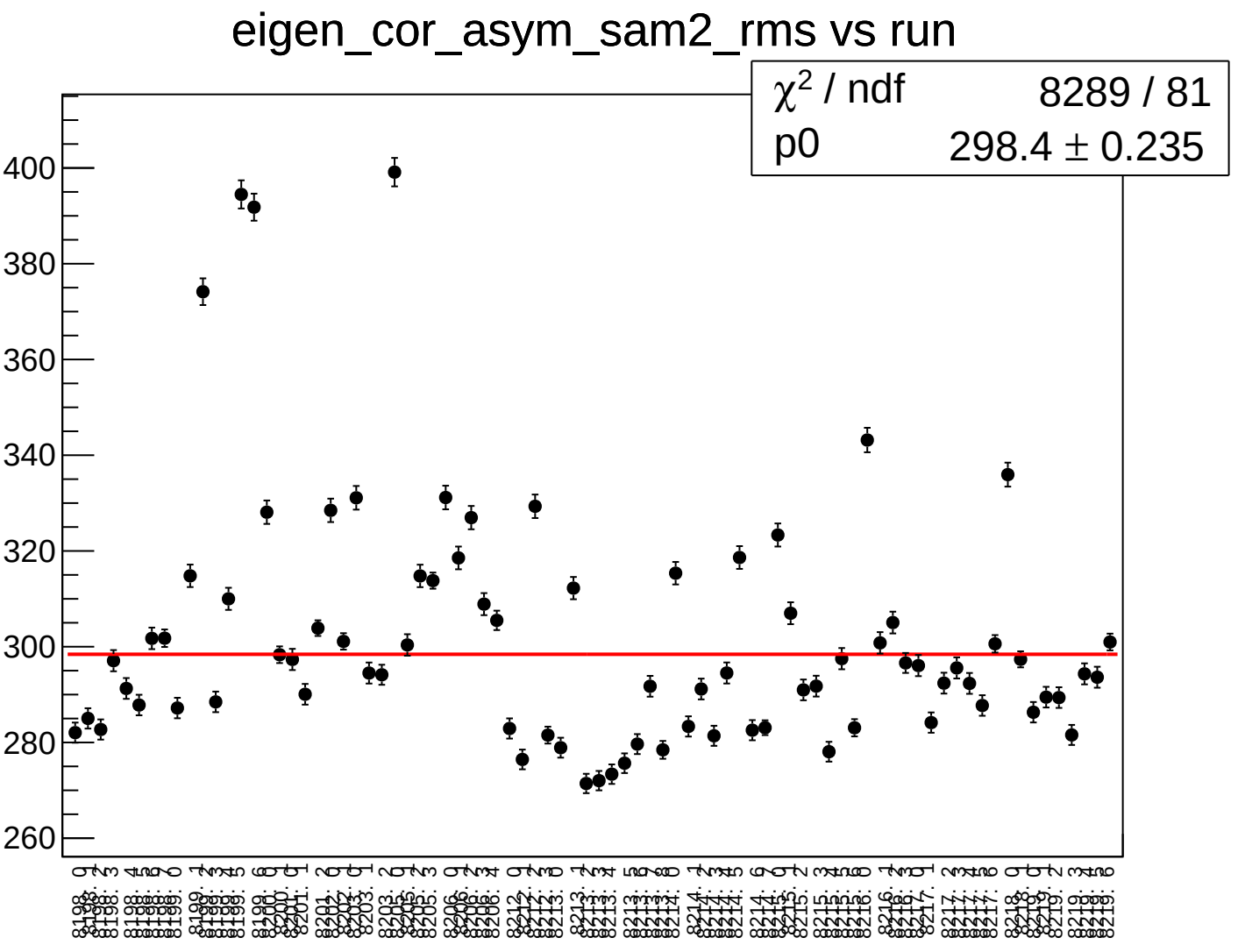
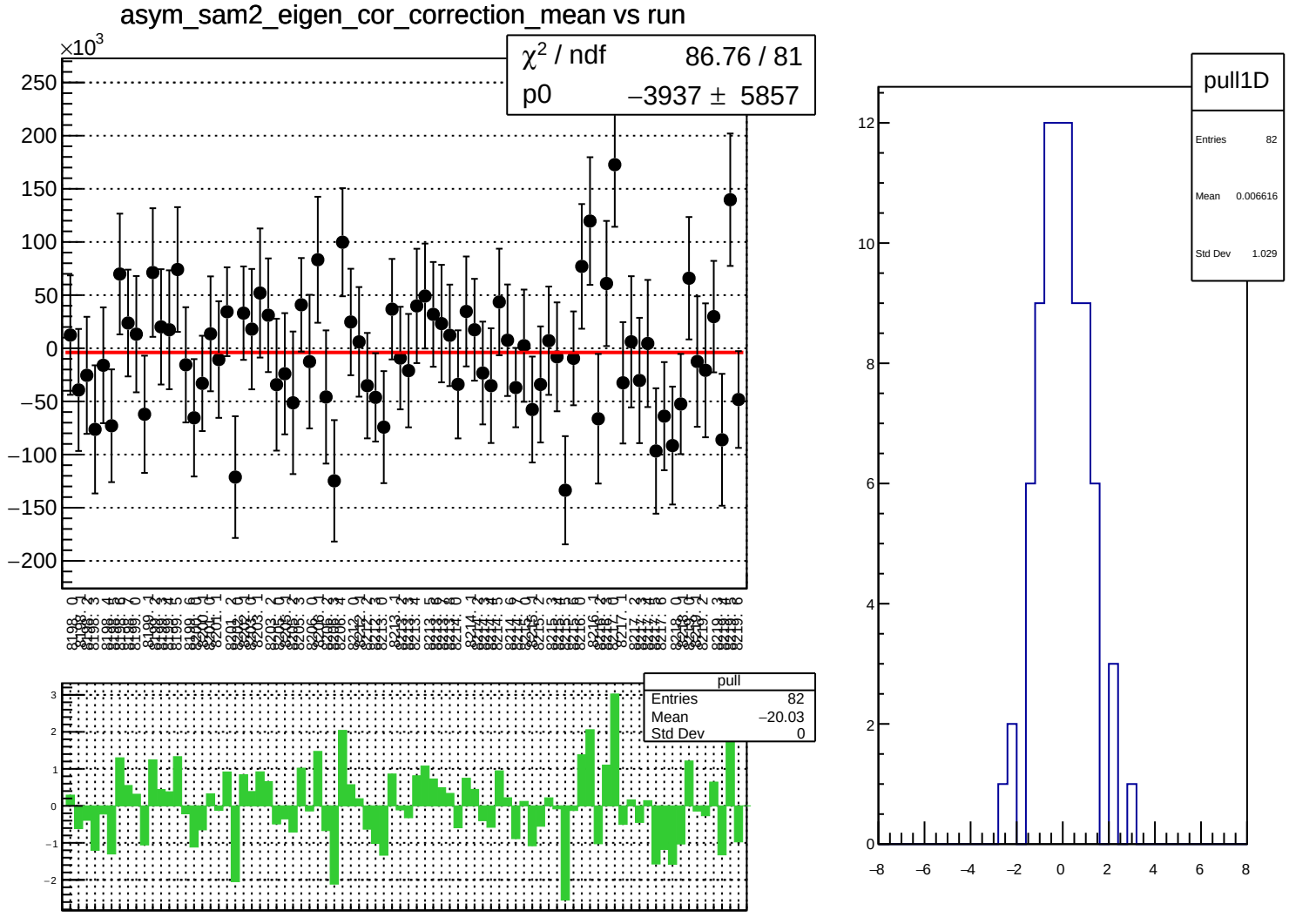
0
2
4
6
8

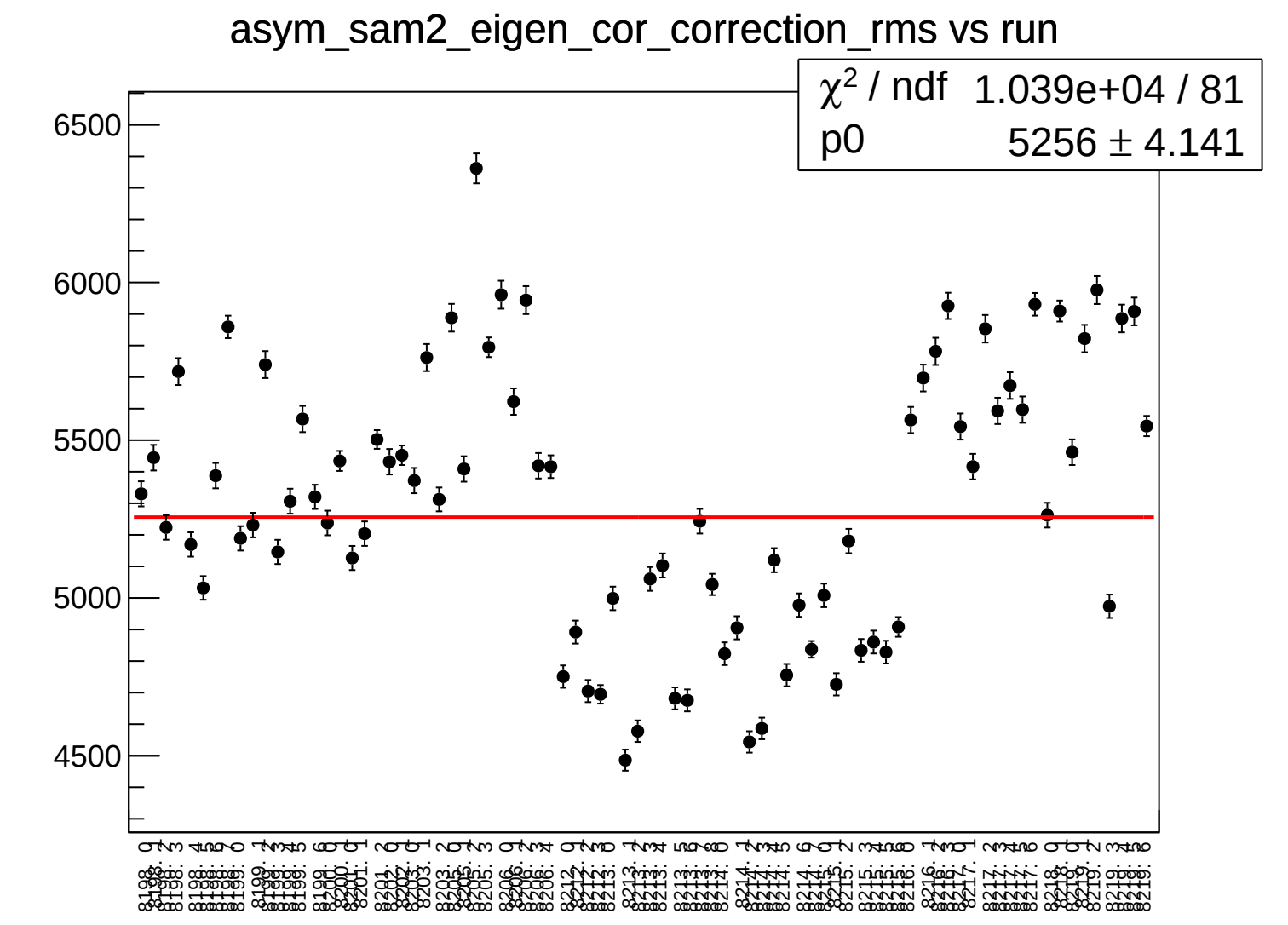

asym_sam2_cor_correction_rms vs run
χ² / ndf 1.039e+04 / 81
p0 5256 ± 4.141
6500
6000
5500
5000
4500

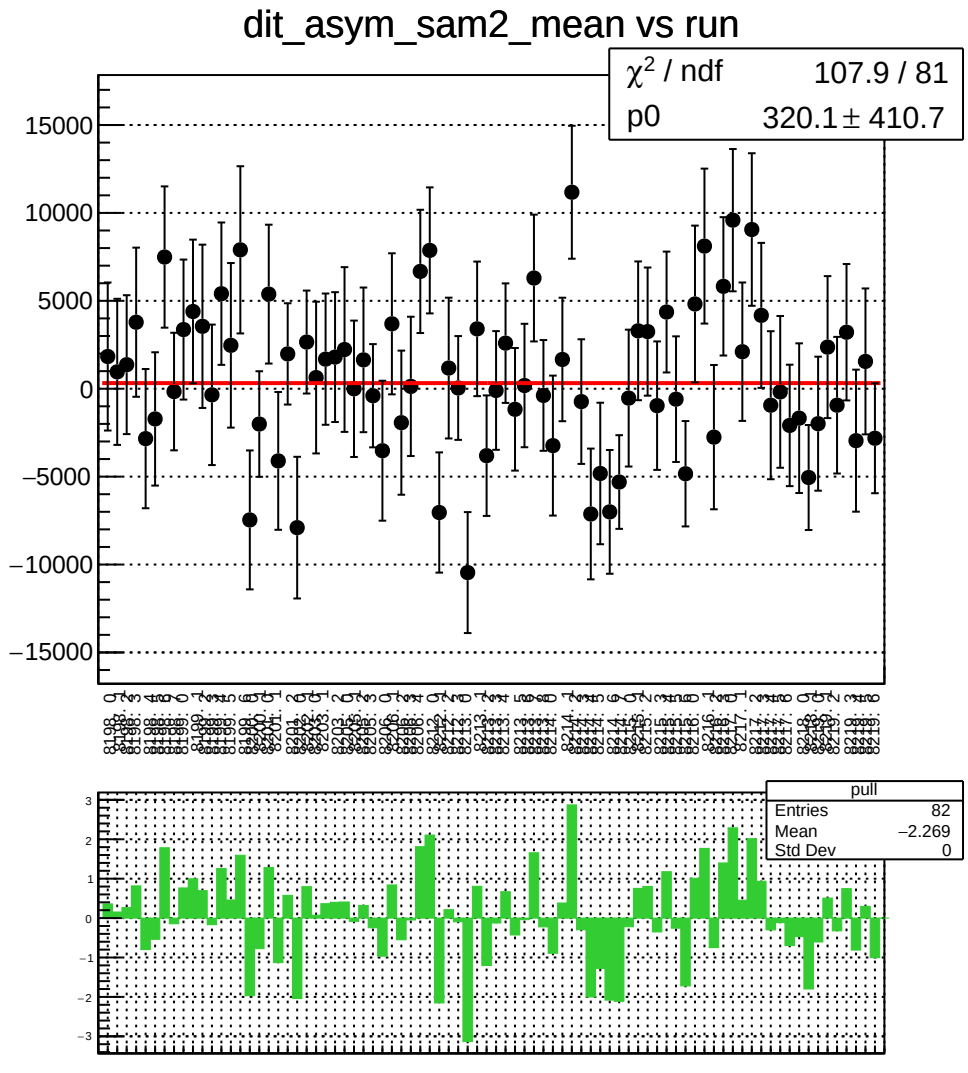

eigen_cor_asym_sam2_mean vs run
χ² / ndf 97.91 / 81
p0 236.7 ± 332.3
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 36.29
Std Dev 61.85
3
2
1
0
−1
−2
−3

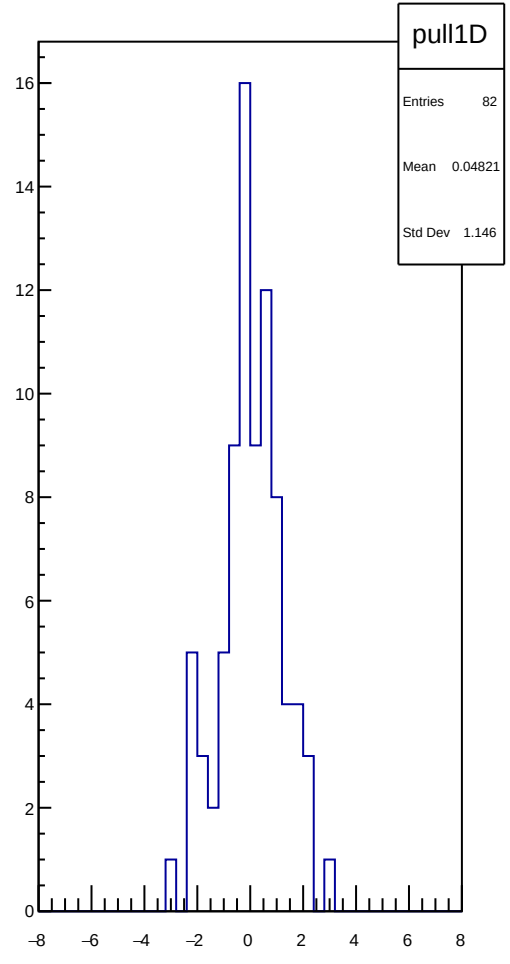

pull1D
Entries 82
Mean 0.02899
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

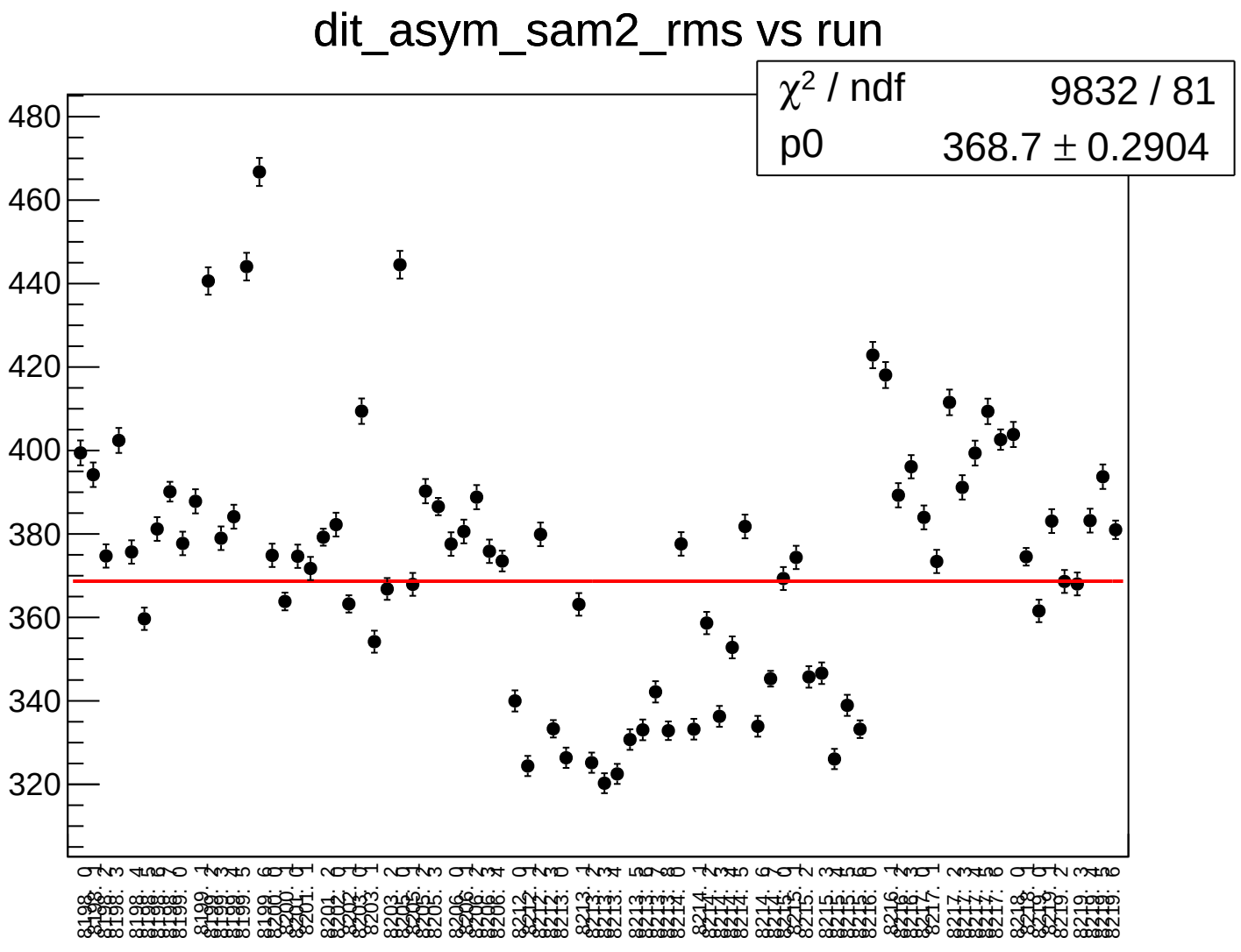

eigen_cor_asym_sam2_rms vs run
χ² / ndf 8289 / 81
p0 298.4 ± 0.235
400
380
360
340
320
300
280
260

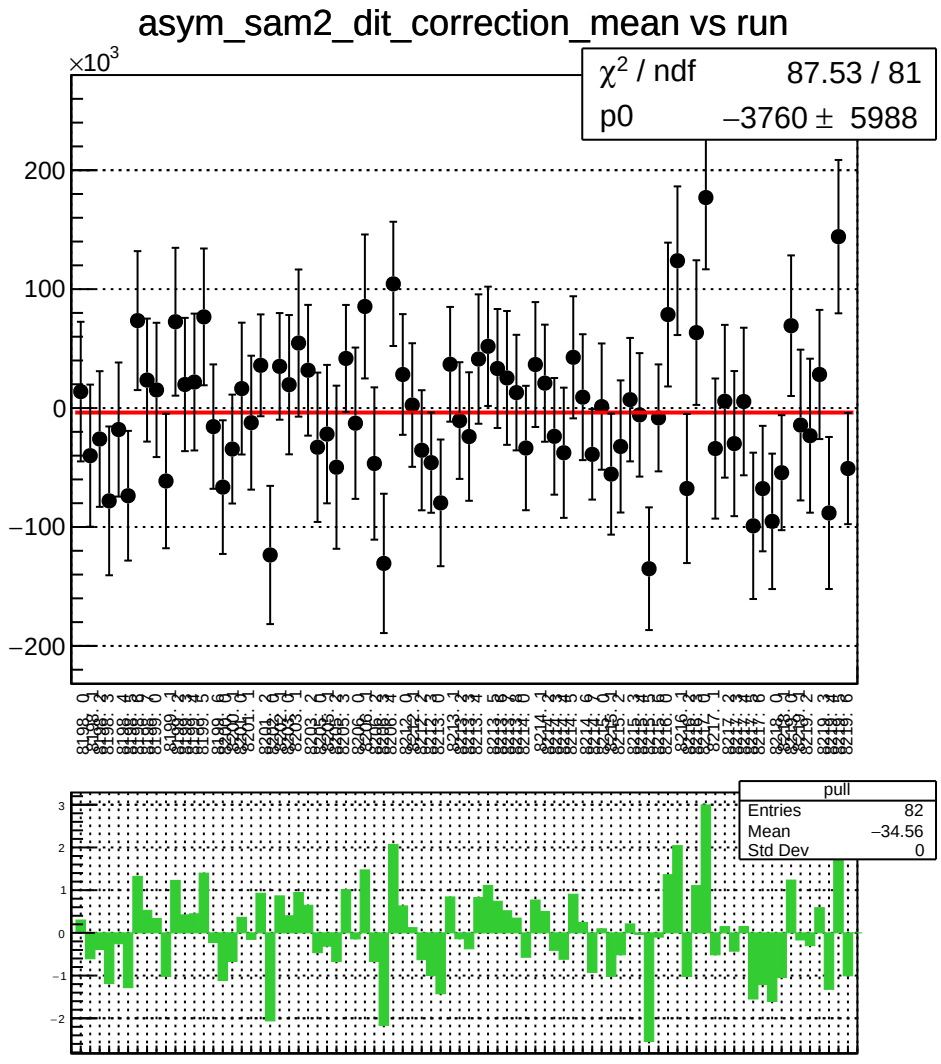

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.76 / 81
p0 −3937 ± 5857
pull
Entries 82
Mean −20.03
Std Dev 0
pull1D
Entries 82
Mean 0.006616
Std Dev 1.029

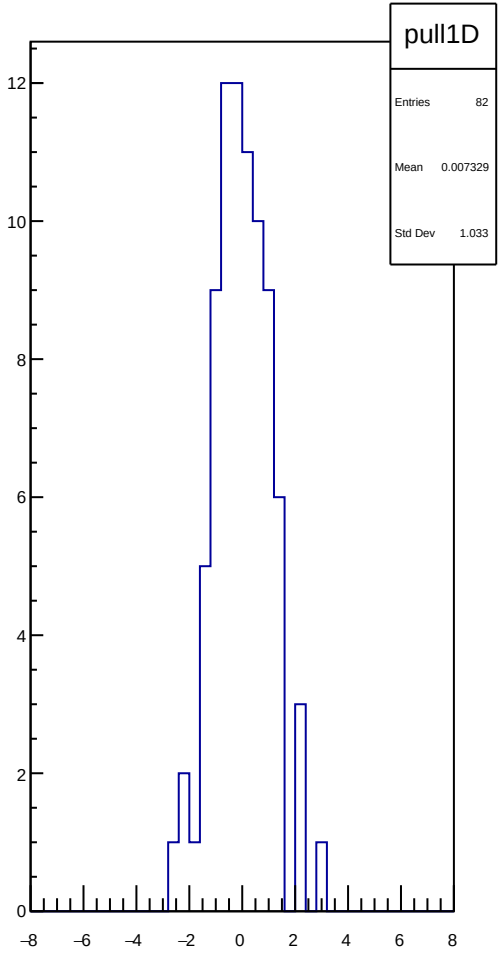

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.039e+04 / 81
p0 5256 ± 4.141
6500
6000
5500
5000
4500

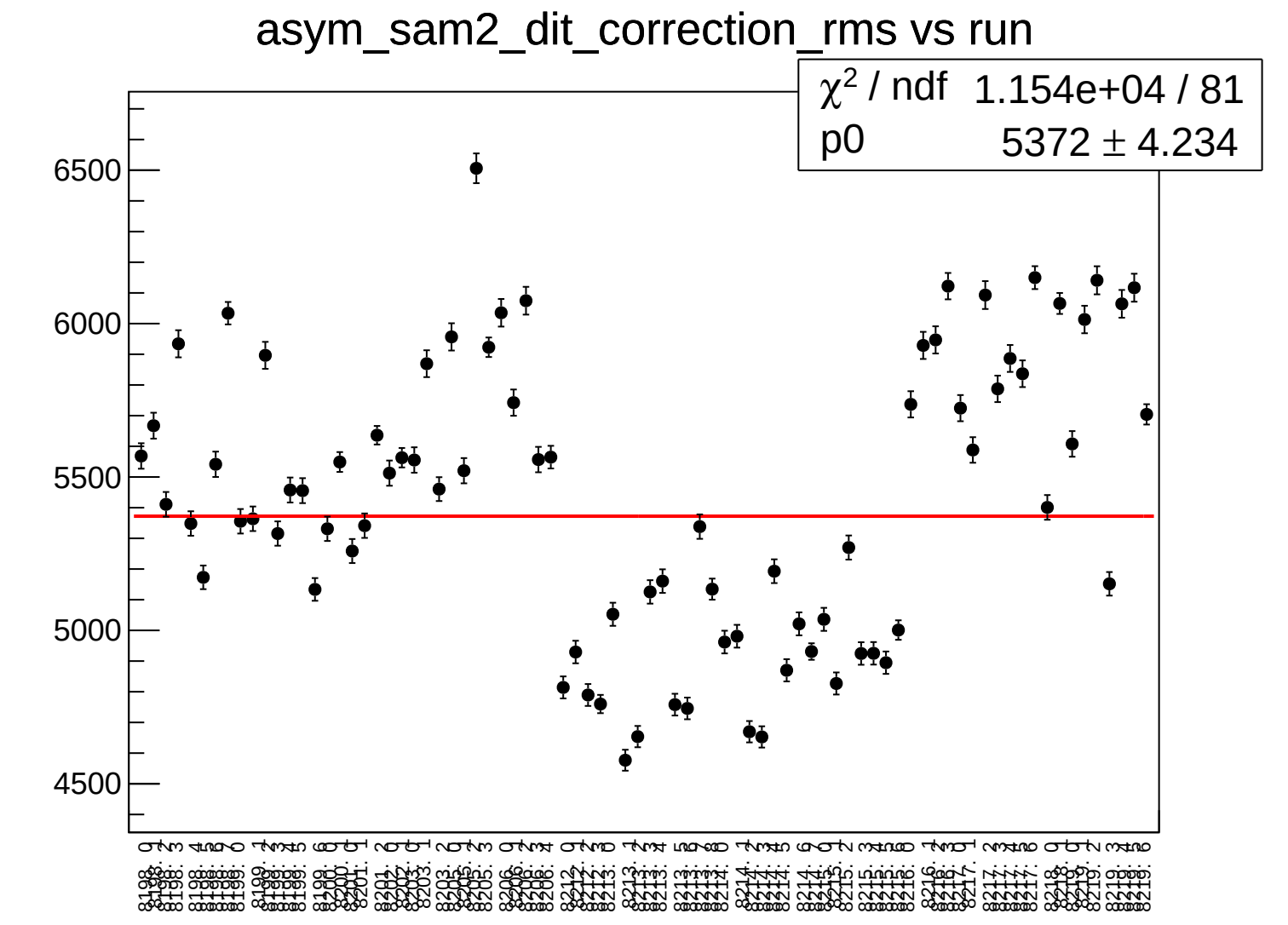

dit_asym_sam2_mean vs run
χ² / ndf 107.9 / 81
p0 320.1 ± 410.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −2.269
Std Dev 0
3
2
1
0
−1
−2
−3

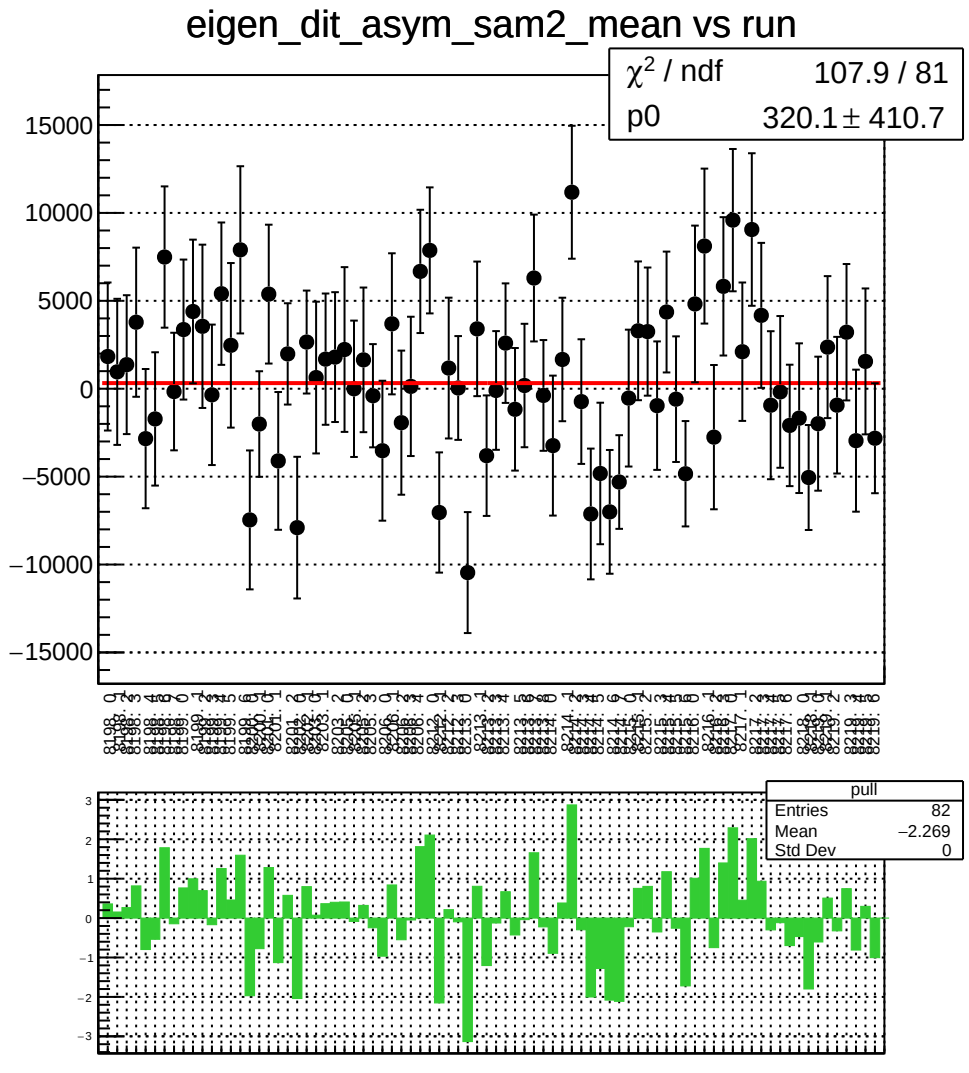

pull1D
Entries 82
Mean 0.04821
Std Dev 1.146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

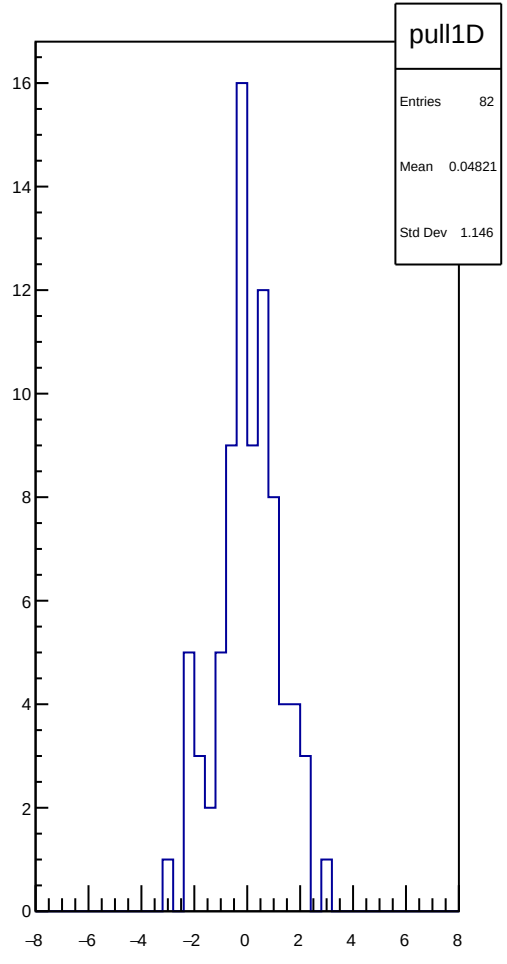

dit_asym_sam2_rms vs run
χ² / ndf 9832 / 81
p0 368.7 ± 0.2904
480
460
440
420
400
380
360
340
320

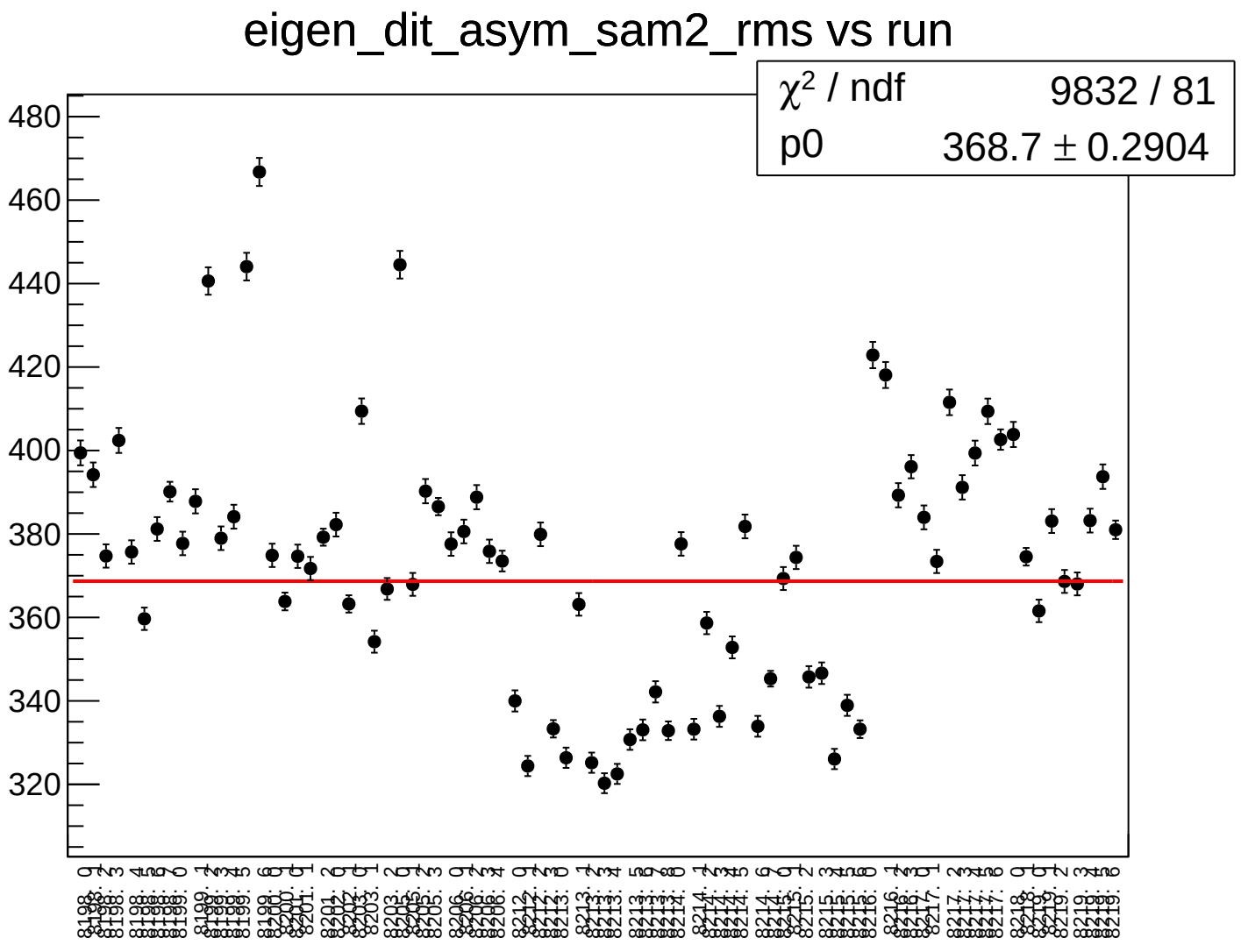

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 87.53 / 81
p0 −3760 ± 5988
200
100
0
−100
−200
pull
Entries 82
Mean −34.56
Std Dev 0
3
2
1
0
−1
−2

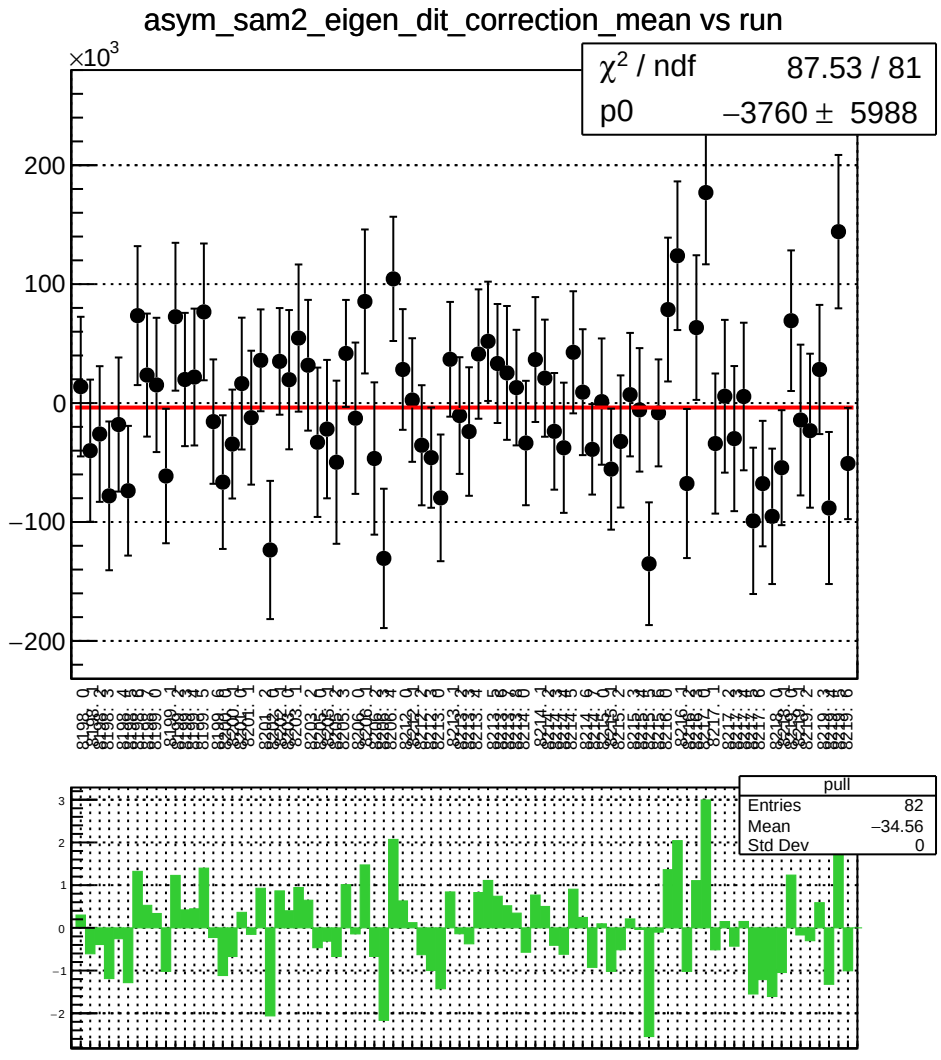

pull1D
Entries 82
Mean 0.007329
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

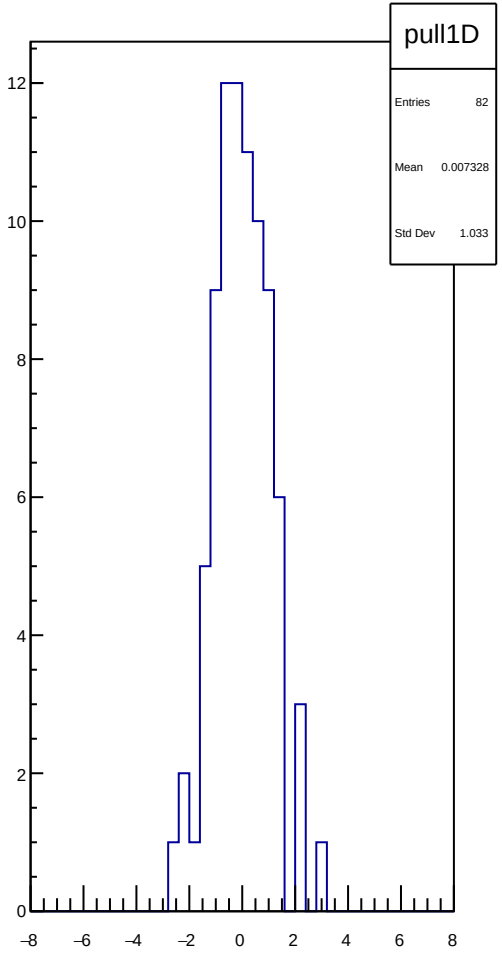

asym_sam2_dit_correction_rms vs run
χ² / ndf 1.154e+04 / 81
p0 5372 ± 4.234
6500
6000
5500
5000
4500

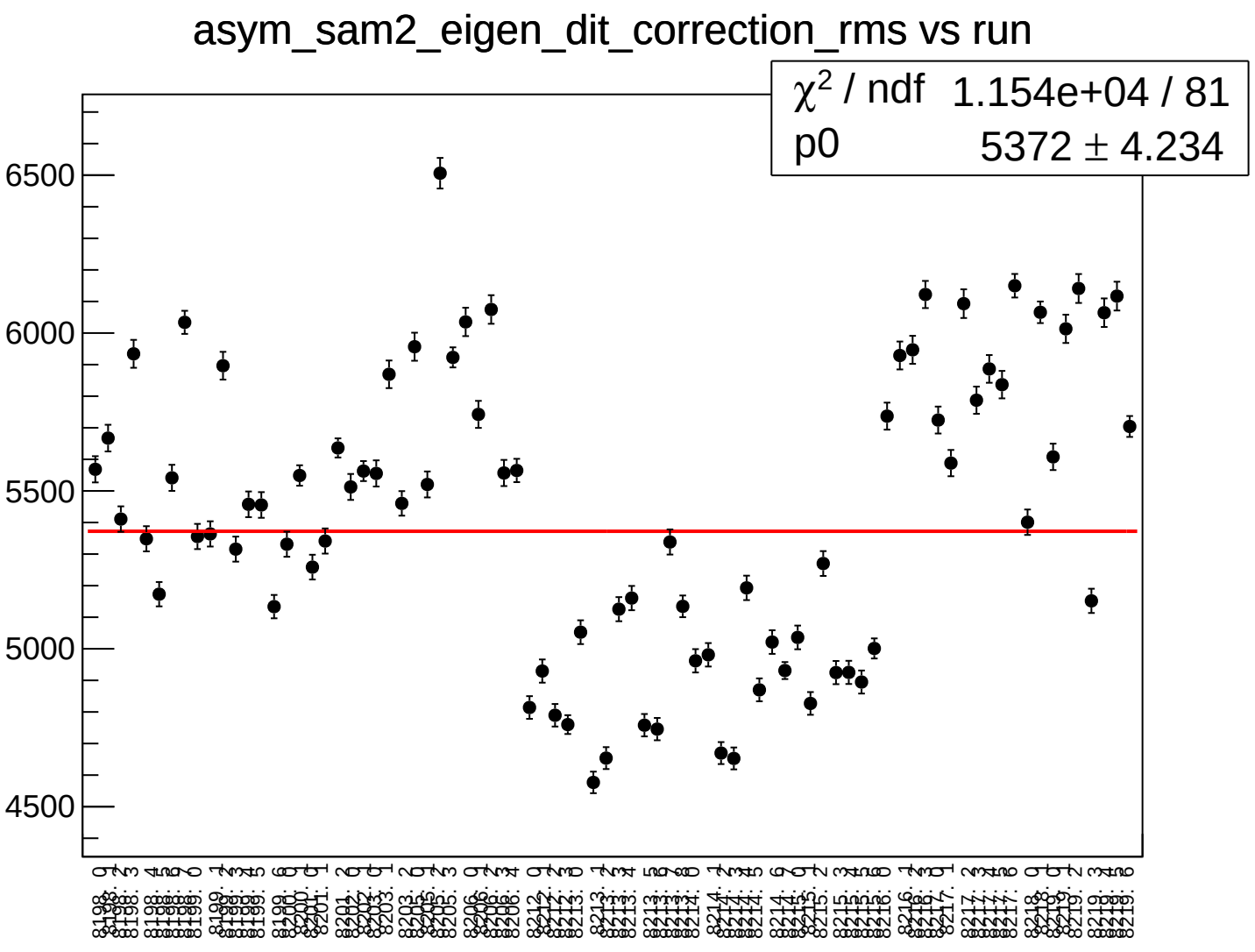

eigen_dit_asym_sam2_mean vs run
χ² / ndf 107.9 / 81
p0 320.1 ± 410.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −2.269
Std Dev 0
3
2
1
0
−1
−2
−3

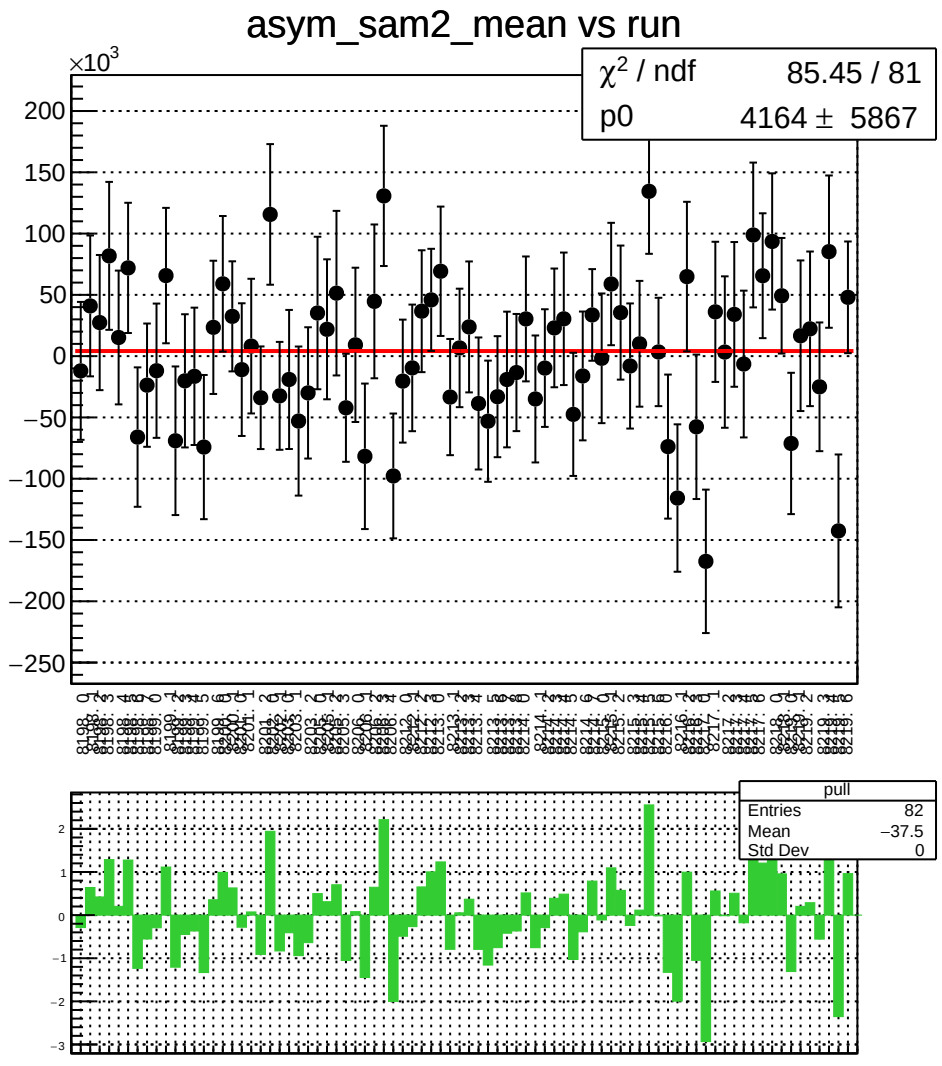

pull1D
Entries 82
Mean 0.04821
Std Dev 1.146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

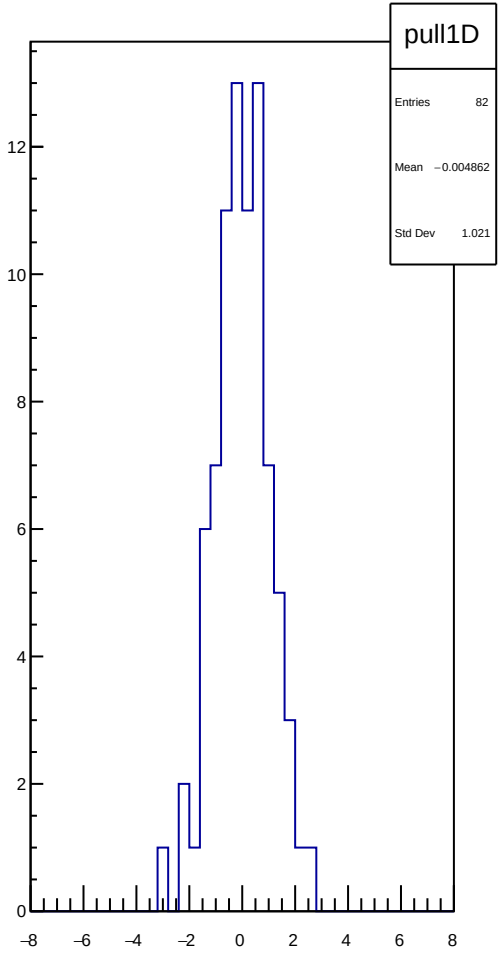

eigen_dit_asym_sam2_rms vs run
χ² / ndf 9832 / 81
p0 368.7 ± 0.2904
480
460
440
420
400
380
360
340
320

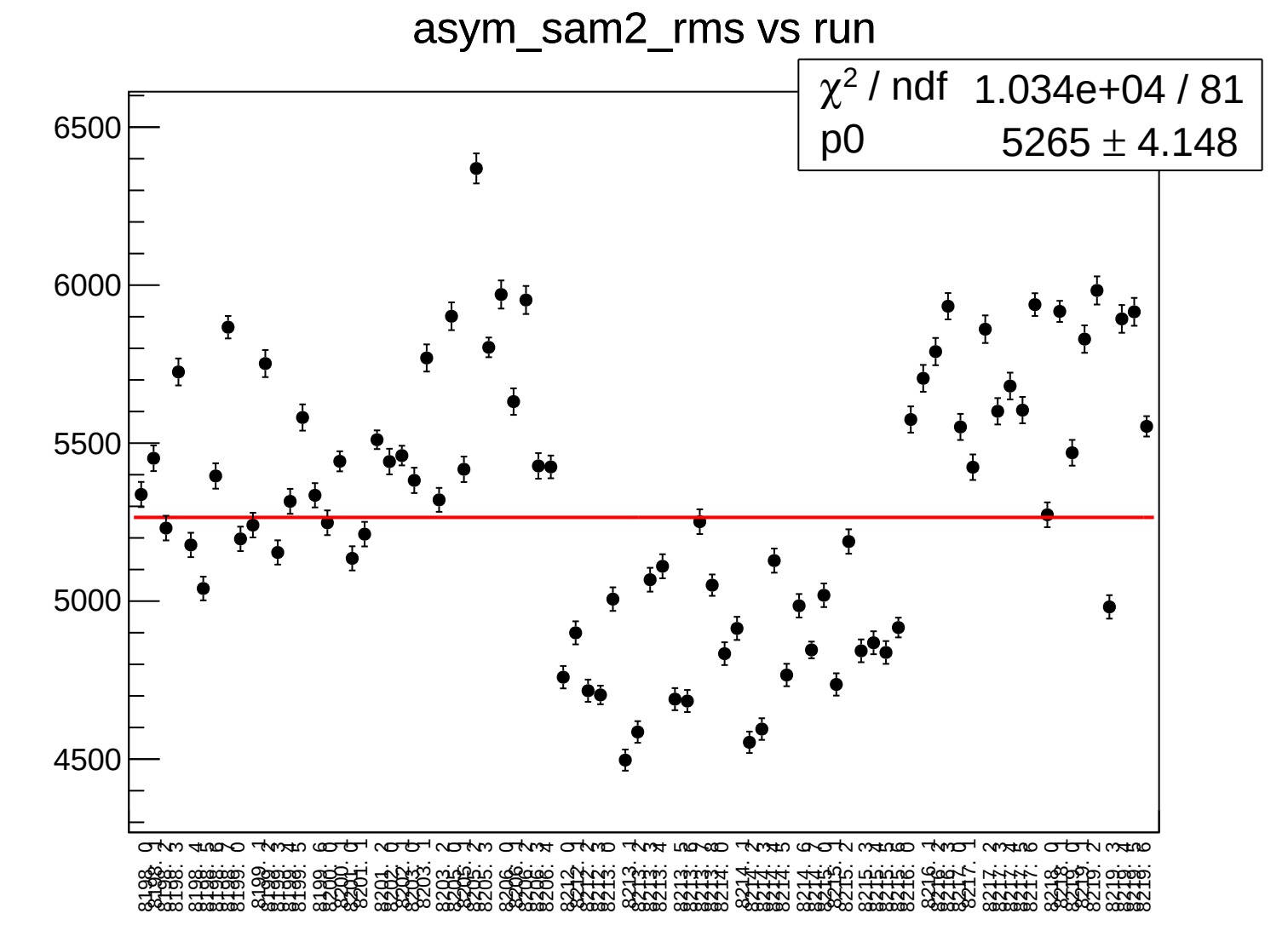

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.53 / 81
p0 −3760 ± 5988
200
100
0
−100
−200
pull
Entries 82
Mean −34.56
Std Dev 0
3
2
1
0
−1
−2

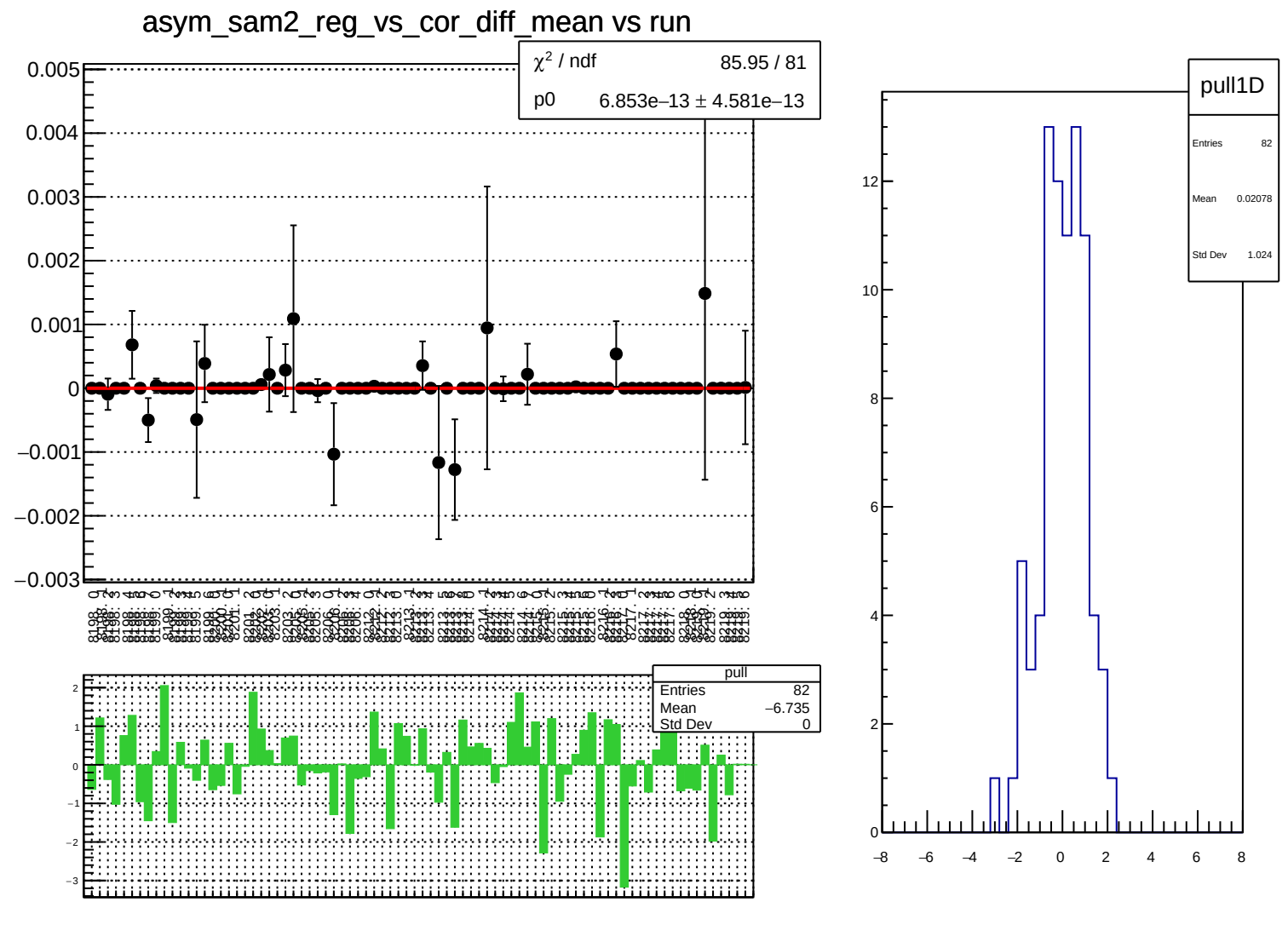

pull1D
Entries 82
Mean 0.007328
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

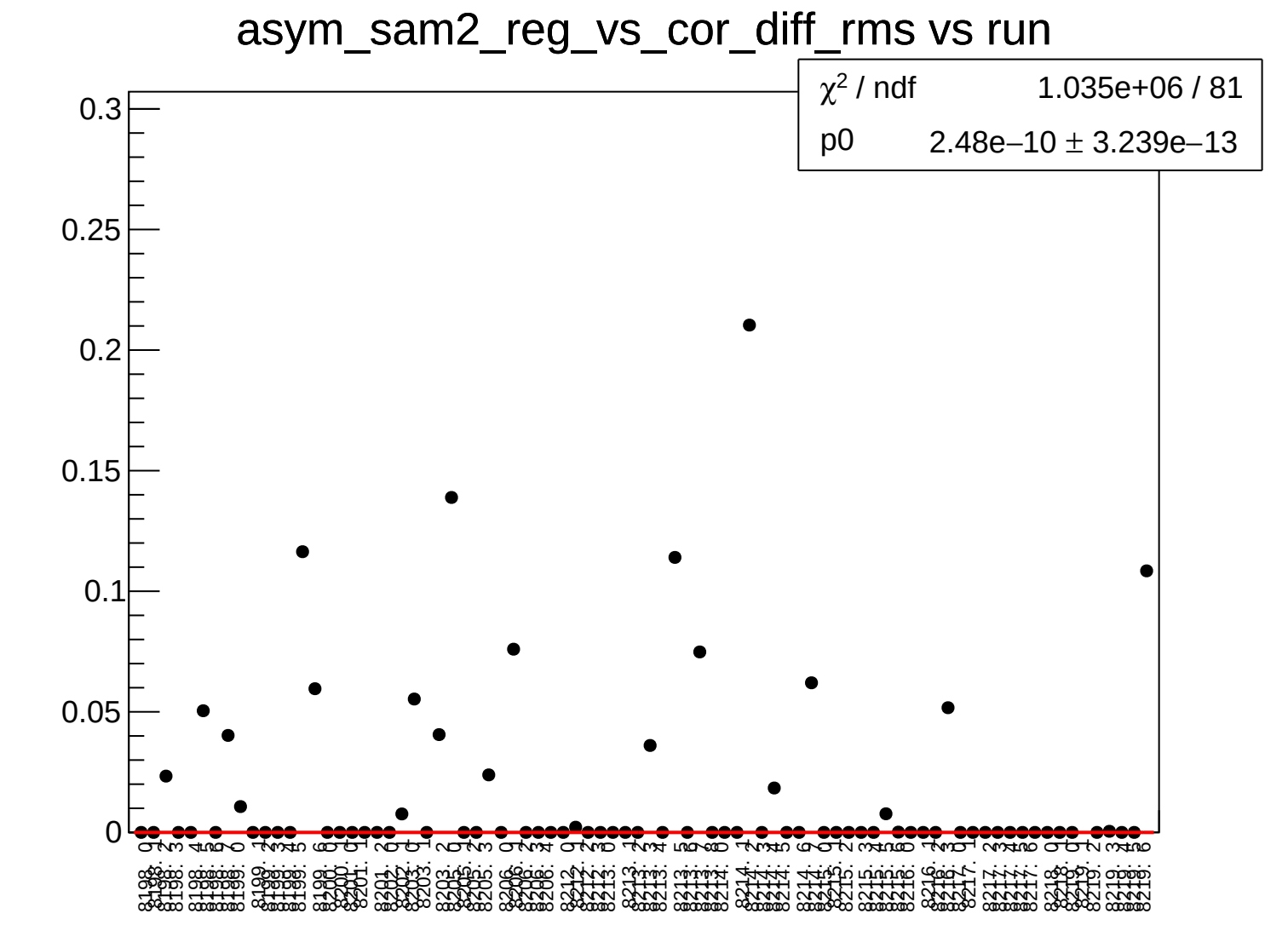

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 1.154e+04 / 81
p0 5372 ± 4.234
6500
6000
5500
5000
4500

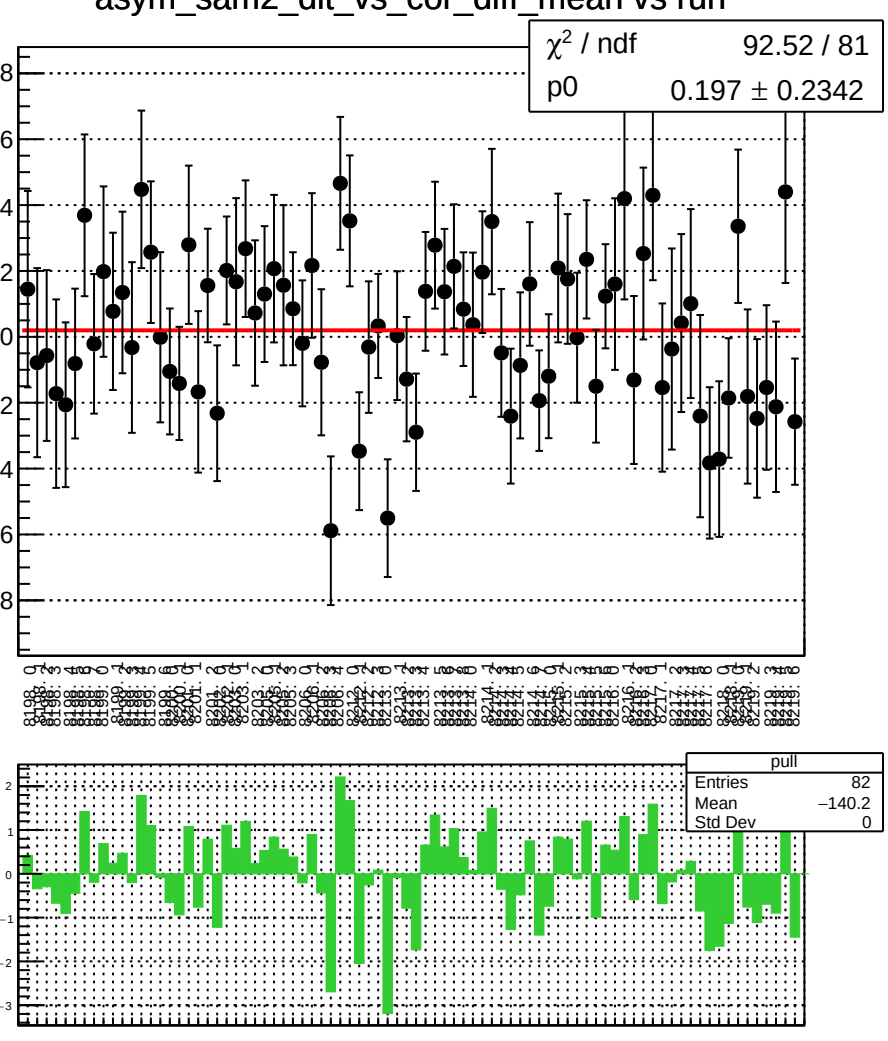

asym_sam2_mean vs run
×10^3
χ^2 / ndf 85.45 / 81
p0 4164 ± 5867
pull
Entries 82
Mean −37.5
Std Dev 0

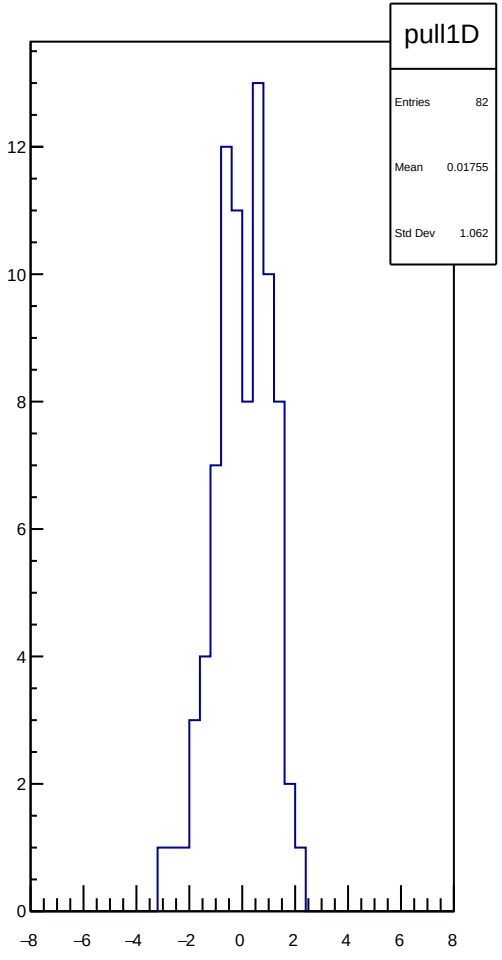

pull1D
Entries 82
Mean −0.004862
Std Dev 1.021

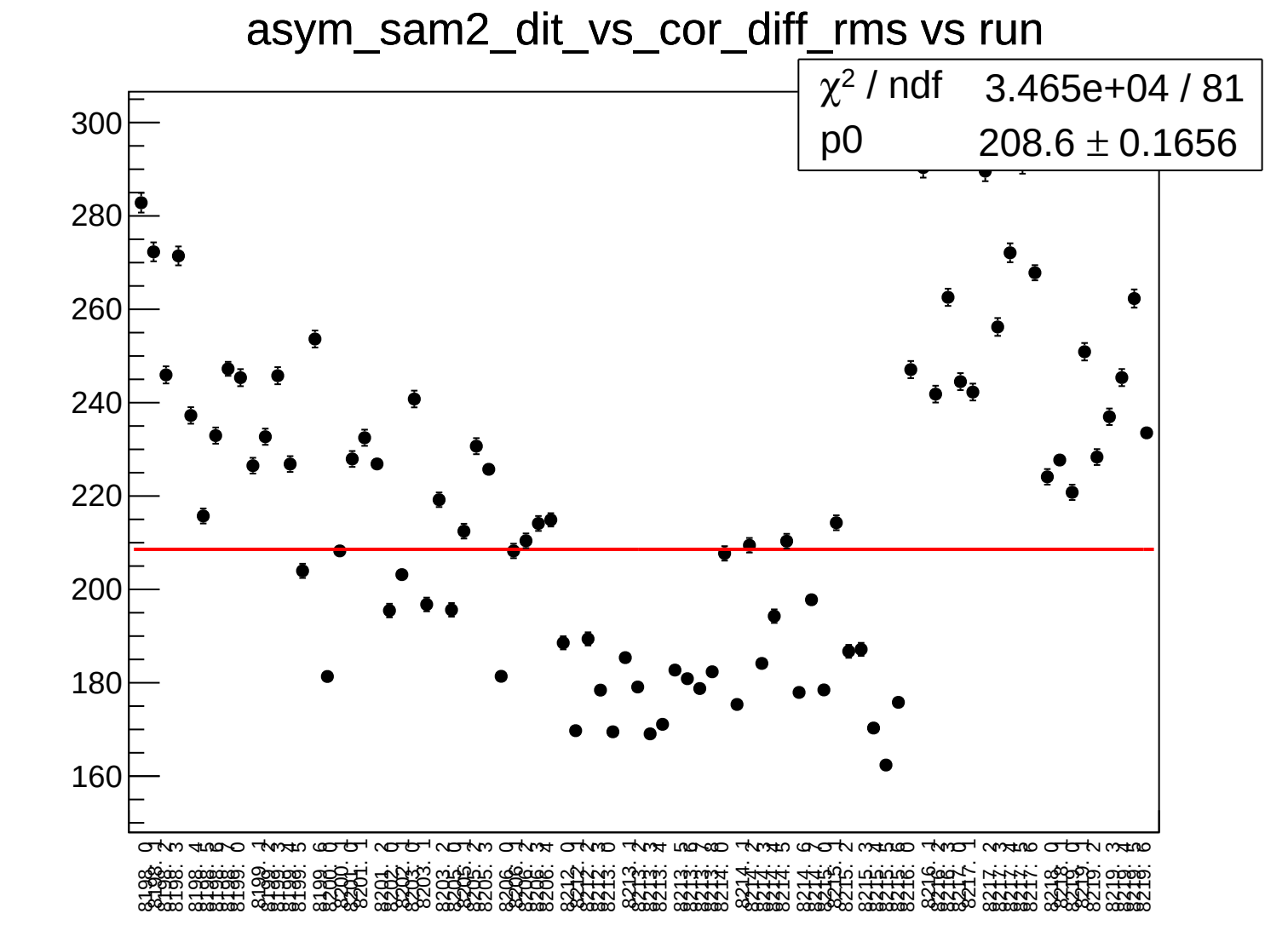

asym_sam2_rms vs run
χ² / ndf 1.034e+04 / 81
p0 5265 ± 4.148
6500
6000
5500
5000
4500

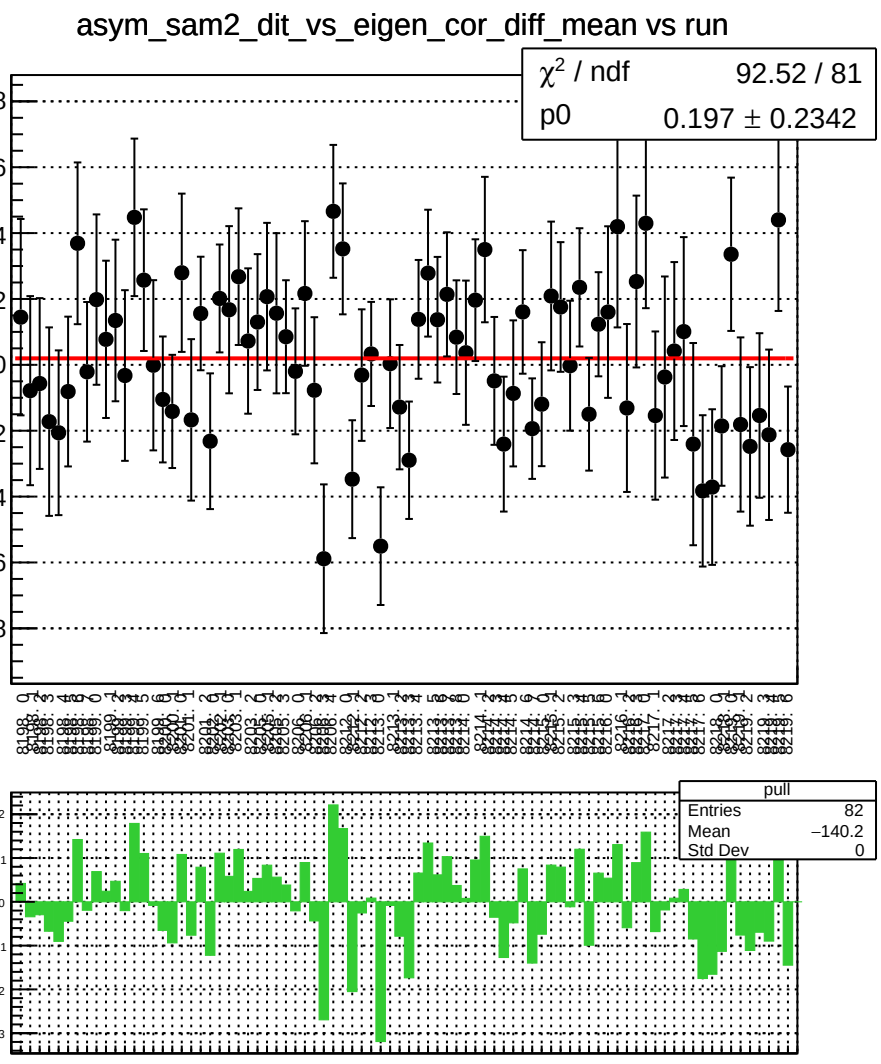

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 85.95 / 81
p0 6.853e−13 ± 4.581e−13
pull
Entries 82
Mean −6.735
Std Dev 0
pull1D
Entries 82
Mean 0.02078
Std Dev 1.024

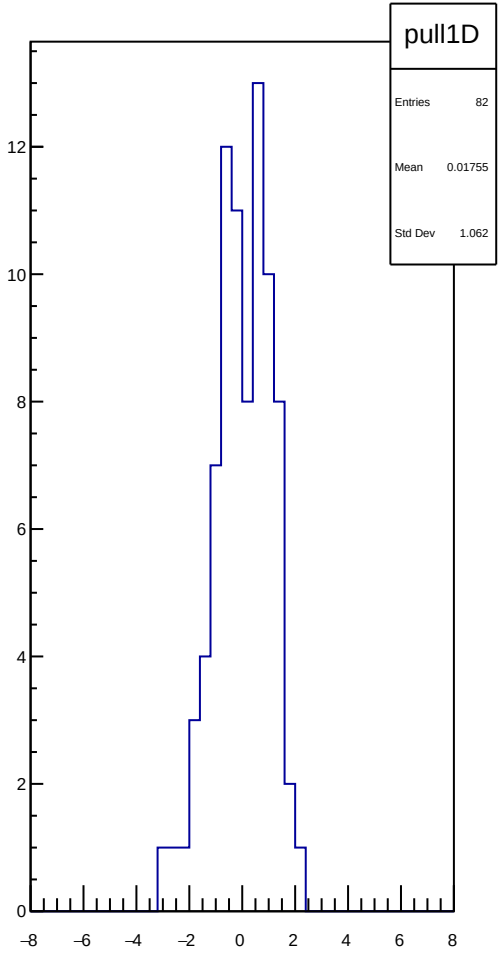

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.035e+06 / 81
p0 2.48e−10 ± 3.239e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

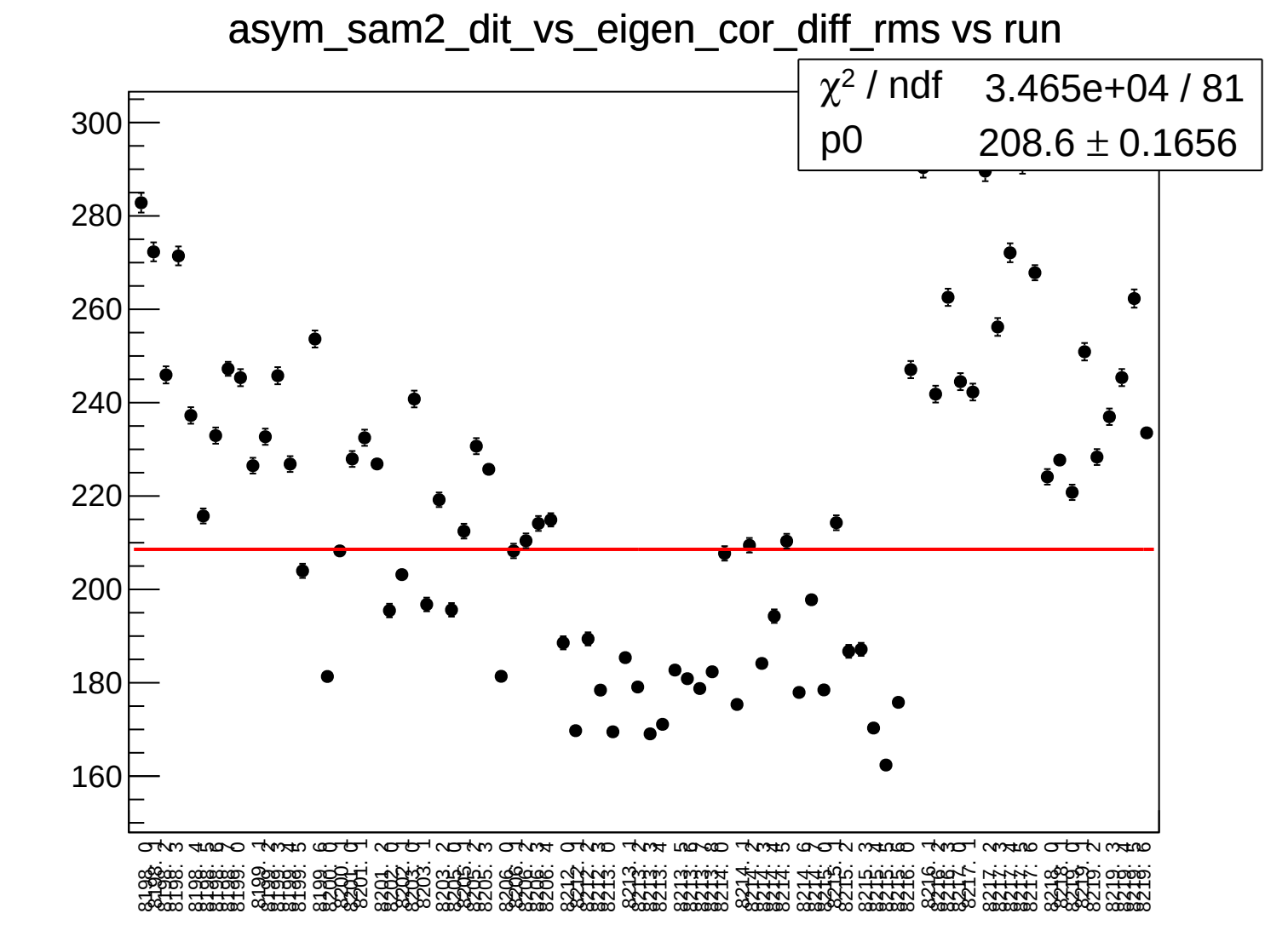

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 92.52 / 81
p0 0.197 ± 0.2342
pull
Entries 82
Mean −140.2
Std Dev 0

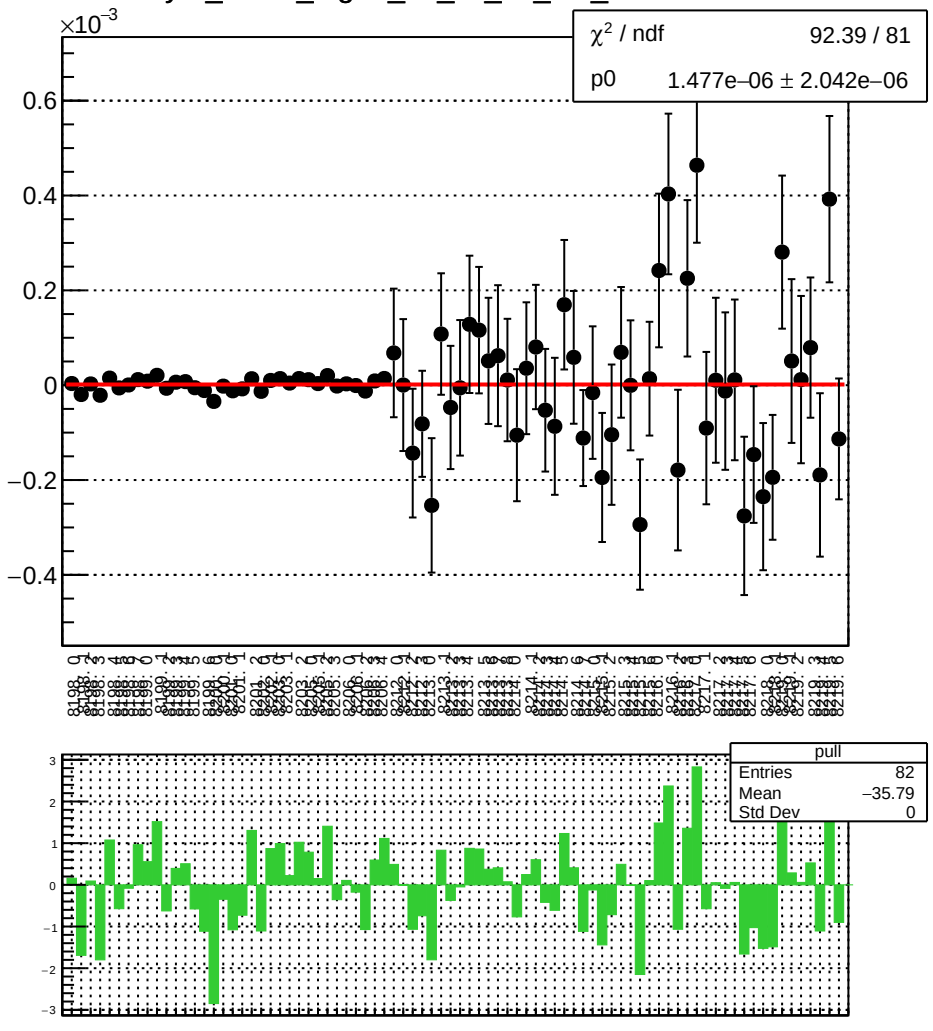

pull1D
Entries 82
Mean 0.01755
Std Dev 1.062

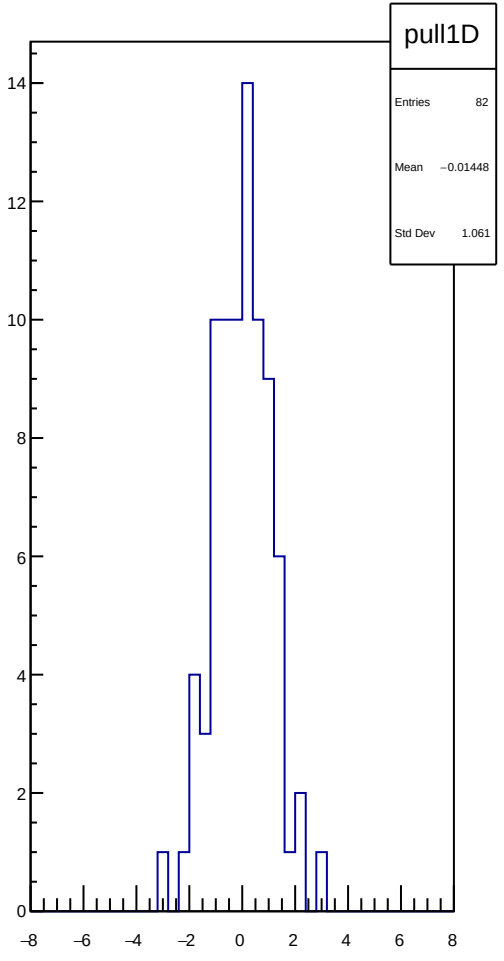

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.465e+04 / 81
p0 208.6 ± 0.1656
300
280
260
240
220
200
180
160

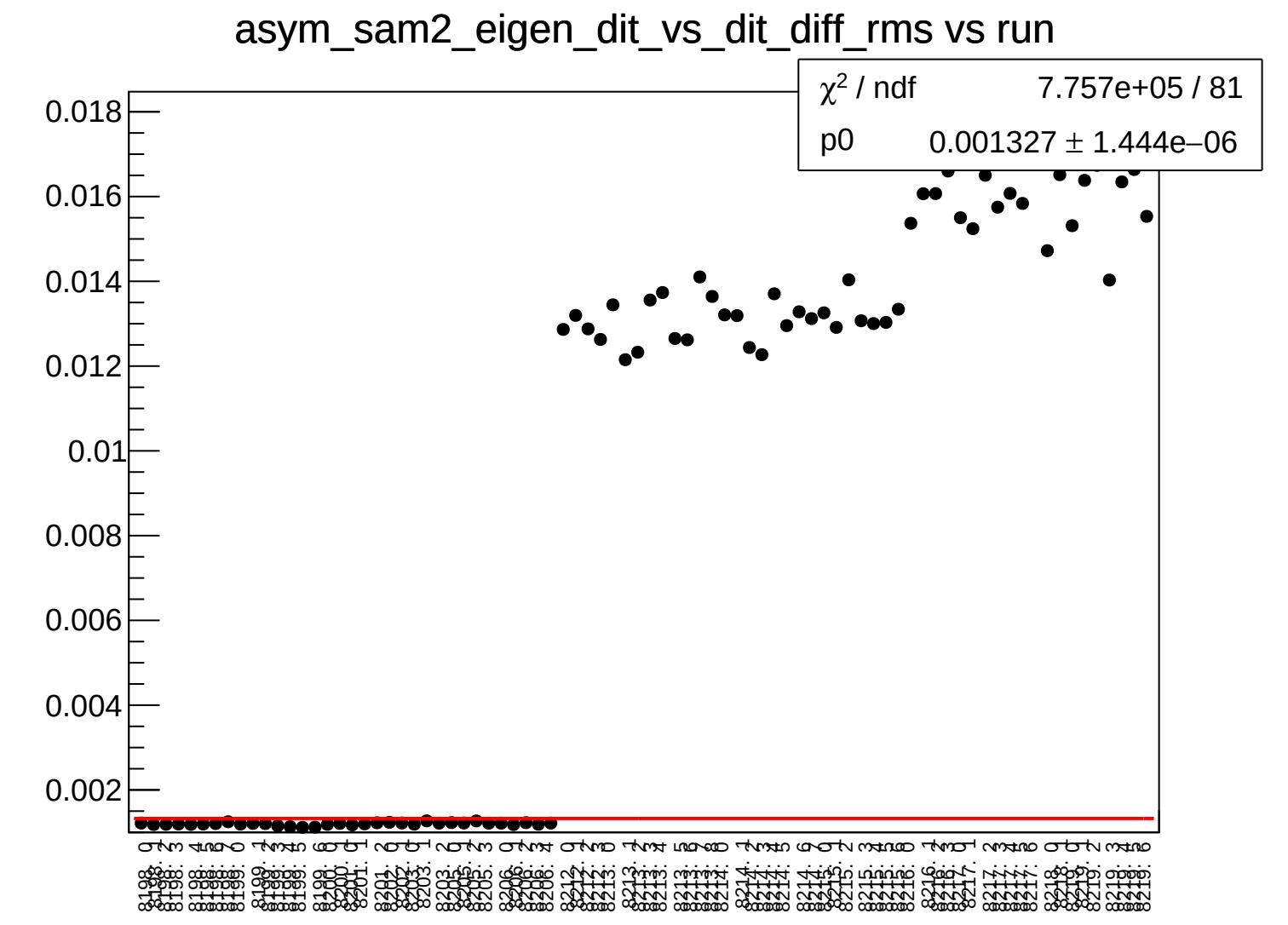

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.52 / 81
p0 0.197 ± 0.2342
pull
Entries 82
Mean −140.2
Std Dev 0

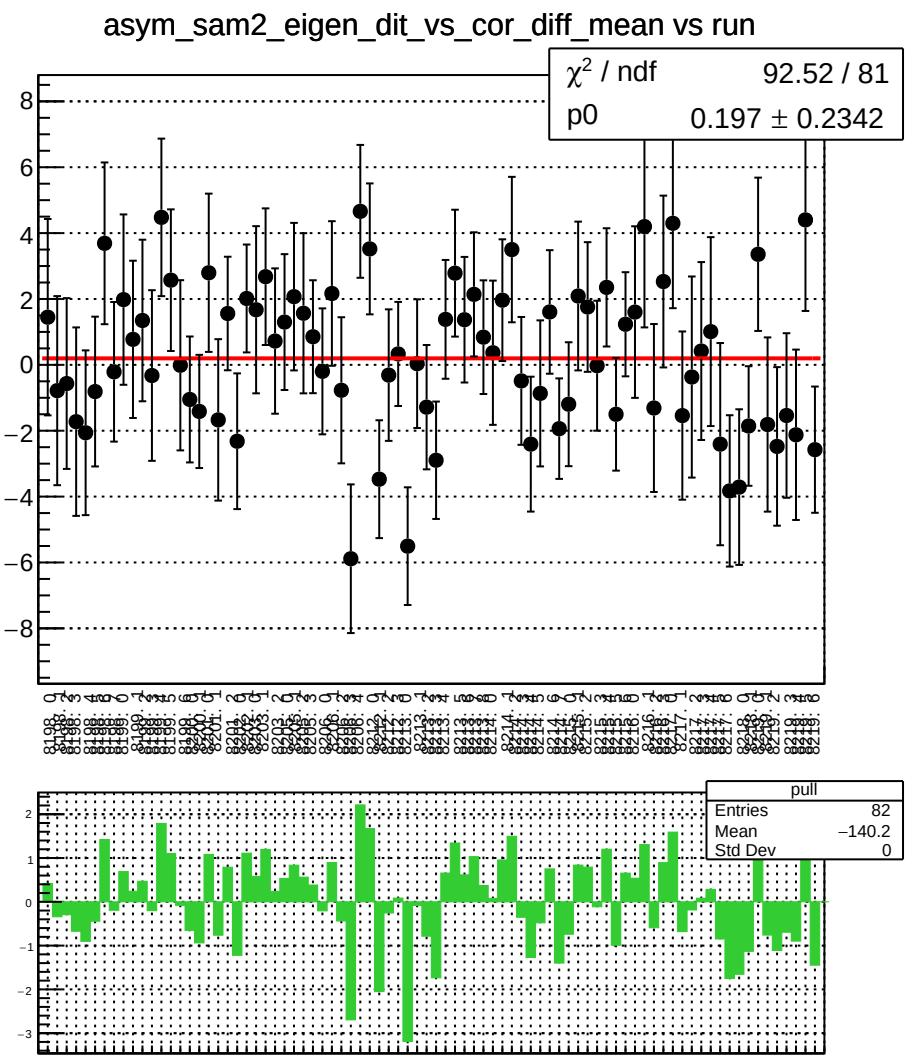

pull1D
Entries 82
Mean 0.01755
Std Dev 1.062

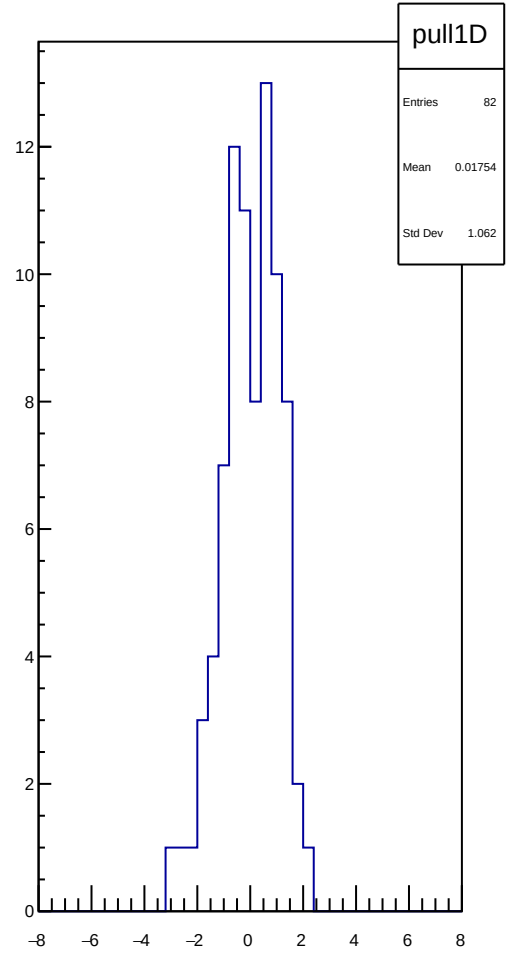

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.465e+04 / 81
p0 208.6 ± 0.1656
300
280
260
240
220
200
180
160

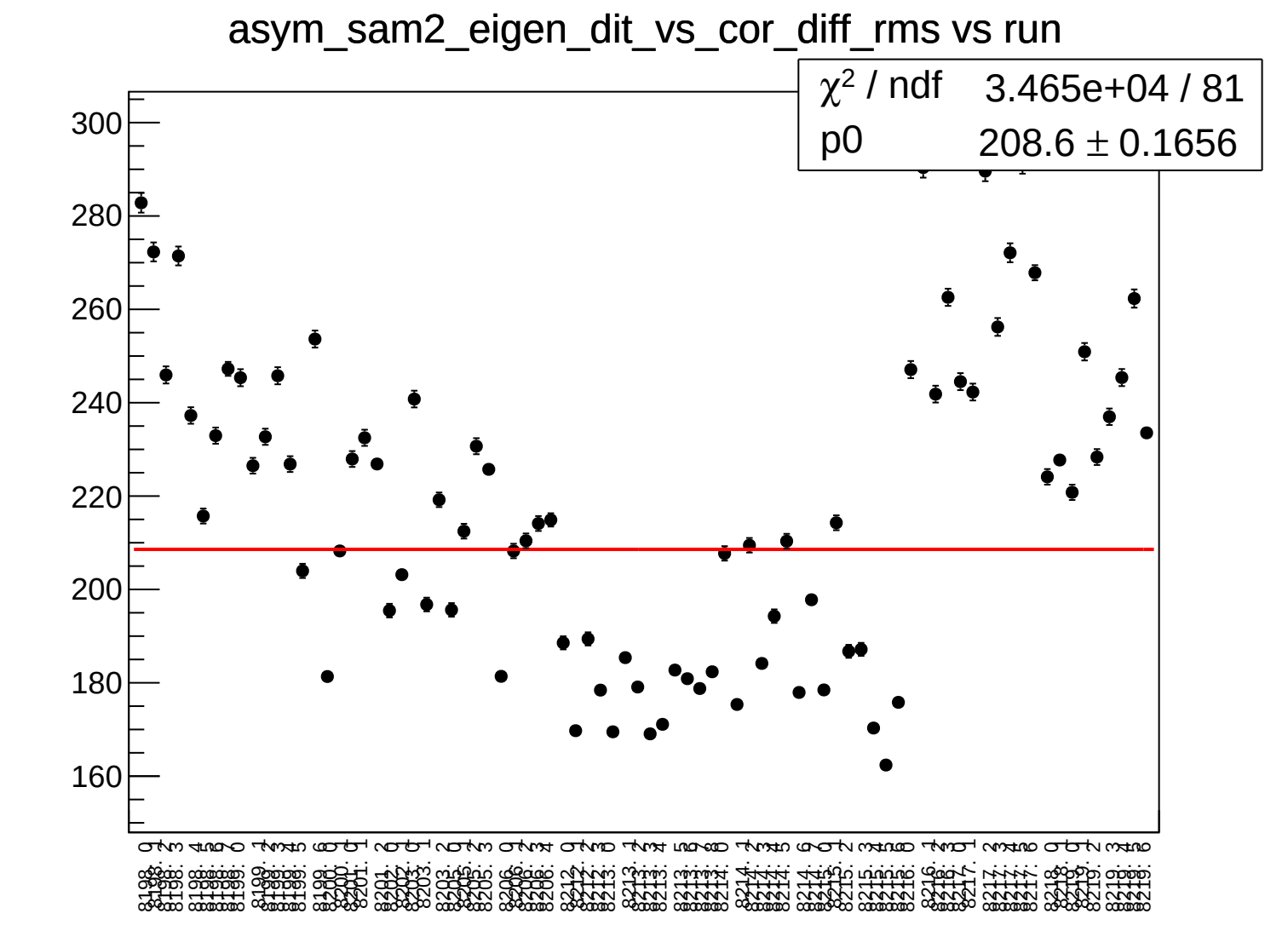

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.39 / 81
p0 1.477e−06 ± 2.042e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 82
Mean −35.79
Std Dev 0
3
2
1
0
−1
−2
−3

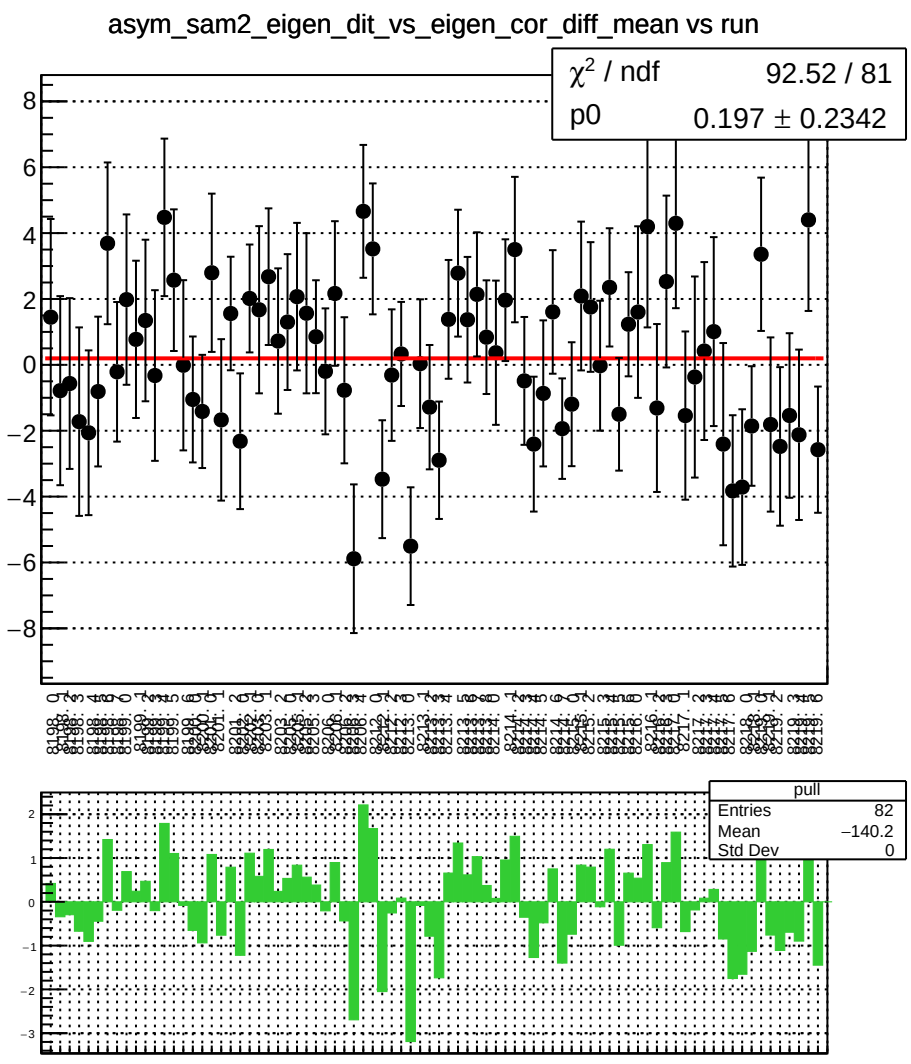

pull1D
Entries 82
Mean −0.01448
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

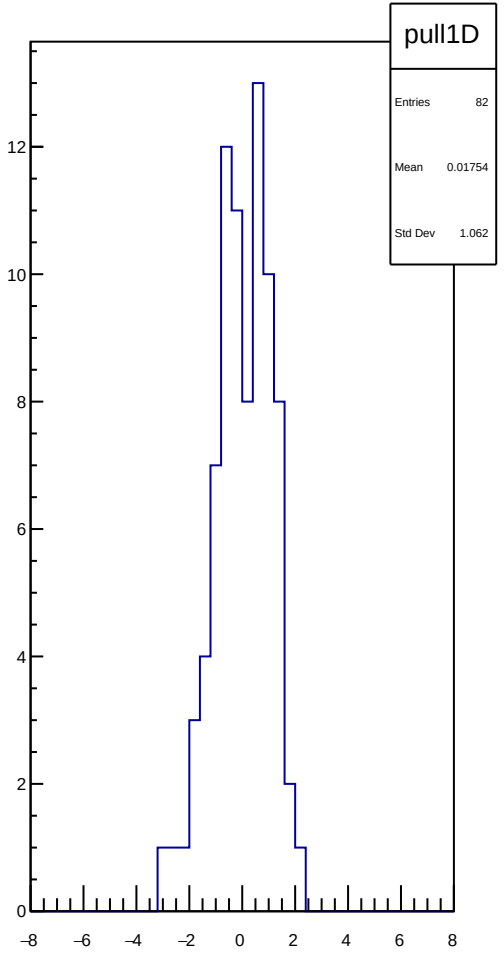

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.757e+05 / 81
p0 0.001327 ± 1.444e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

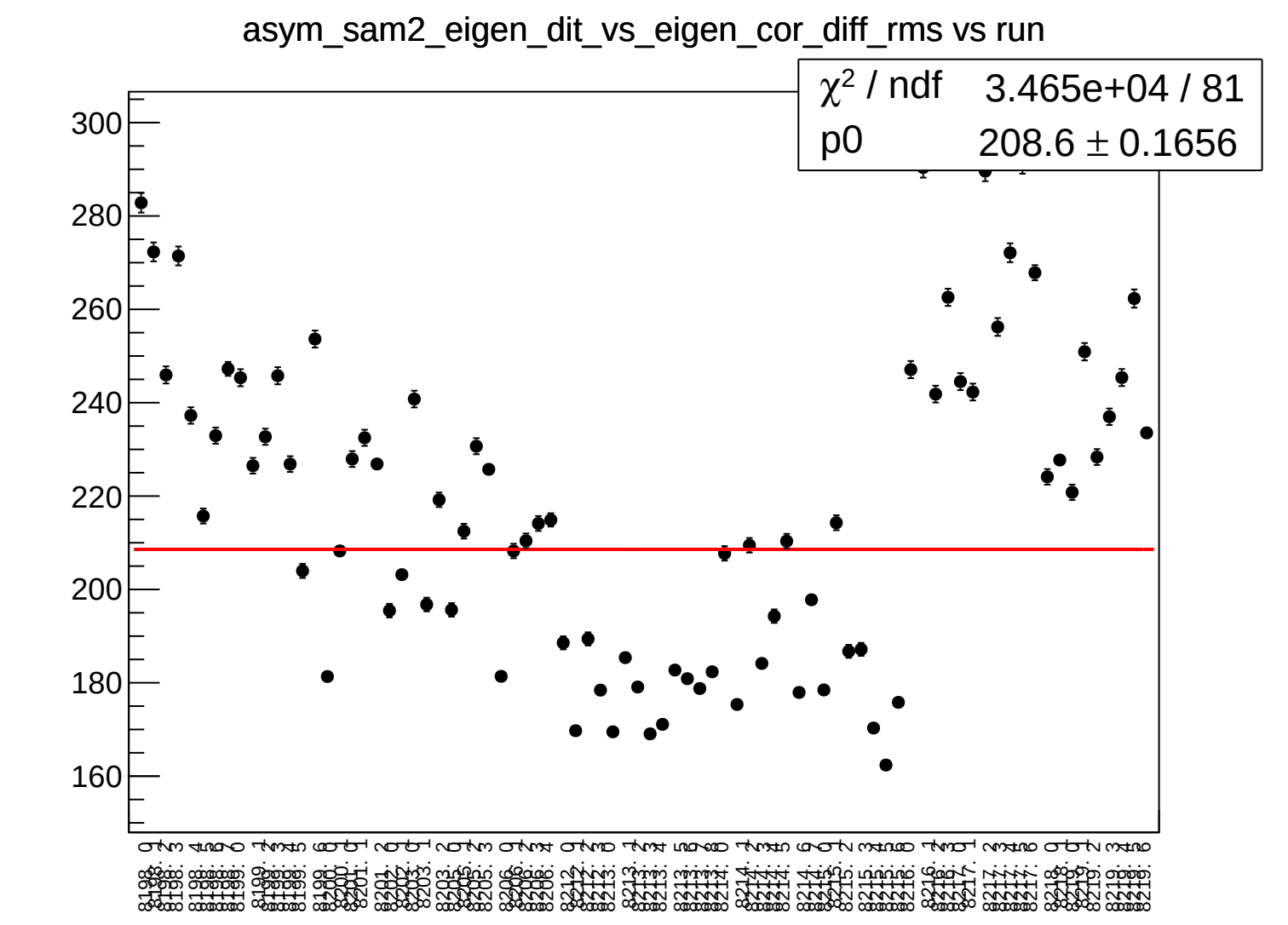

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.52 / 81
p0 0.197 ± 0.2342
pull
Entries 82
Mean −140.2
Std Dev 0

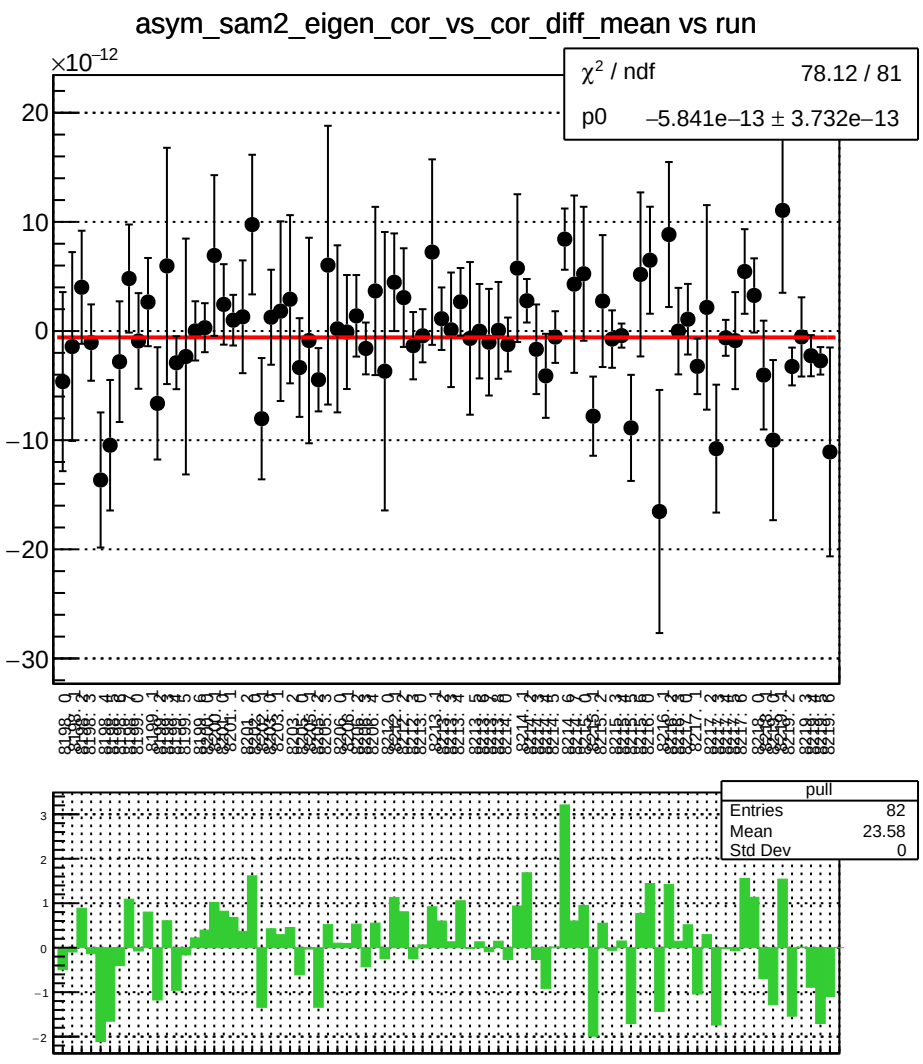

pull1D
Entries 82
Mean 0.01754
Std Dev 1.062

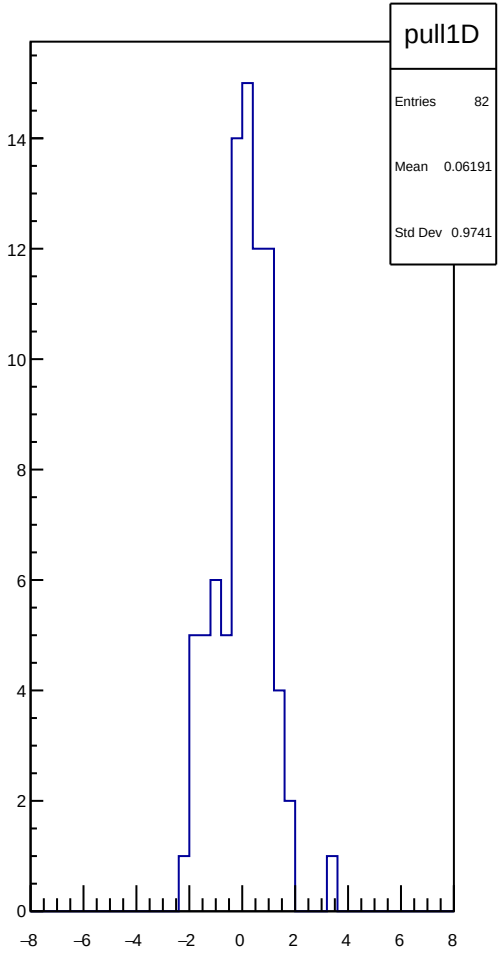

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.465e+04 / 81
p0 208.6 ± 0.1656
300
280
260
240
220
200
180
160

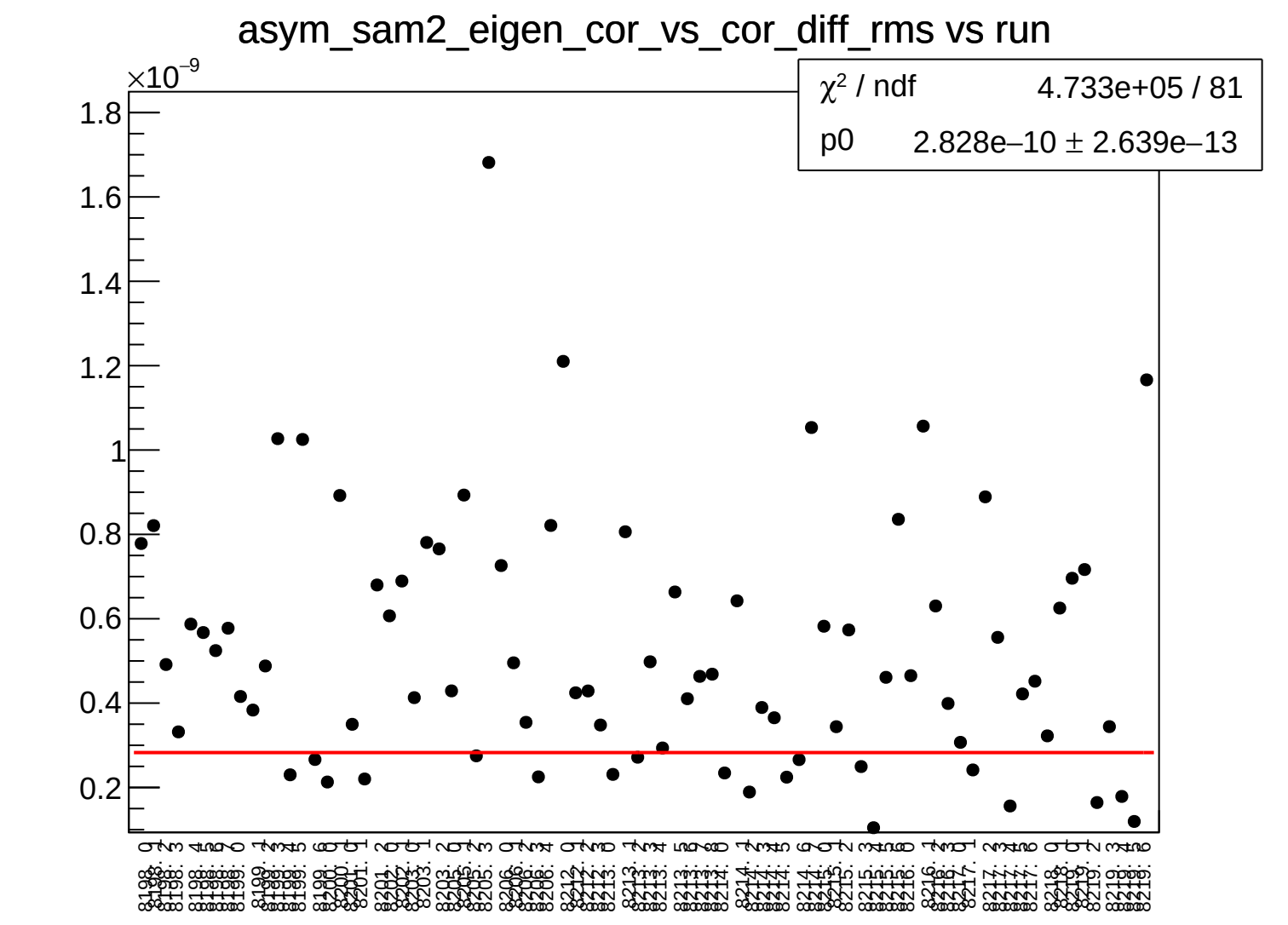

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.52 / 81
p0 0.197 ± 0.2342
pull
Entries 82
Mean −140.2
Std Dev 0

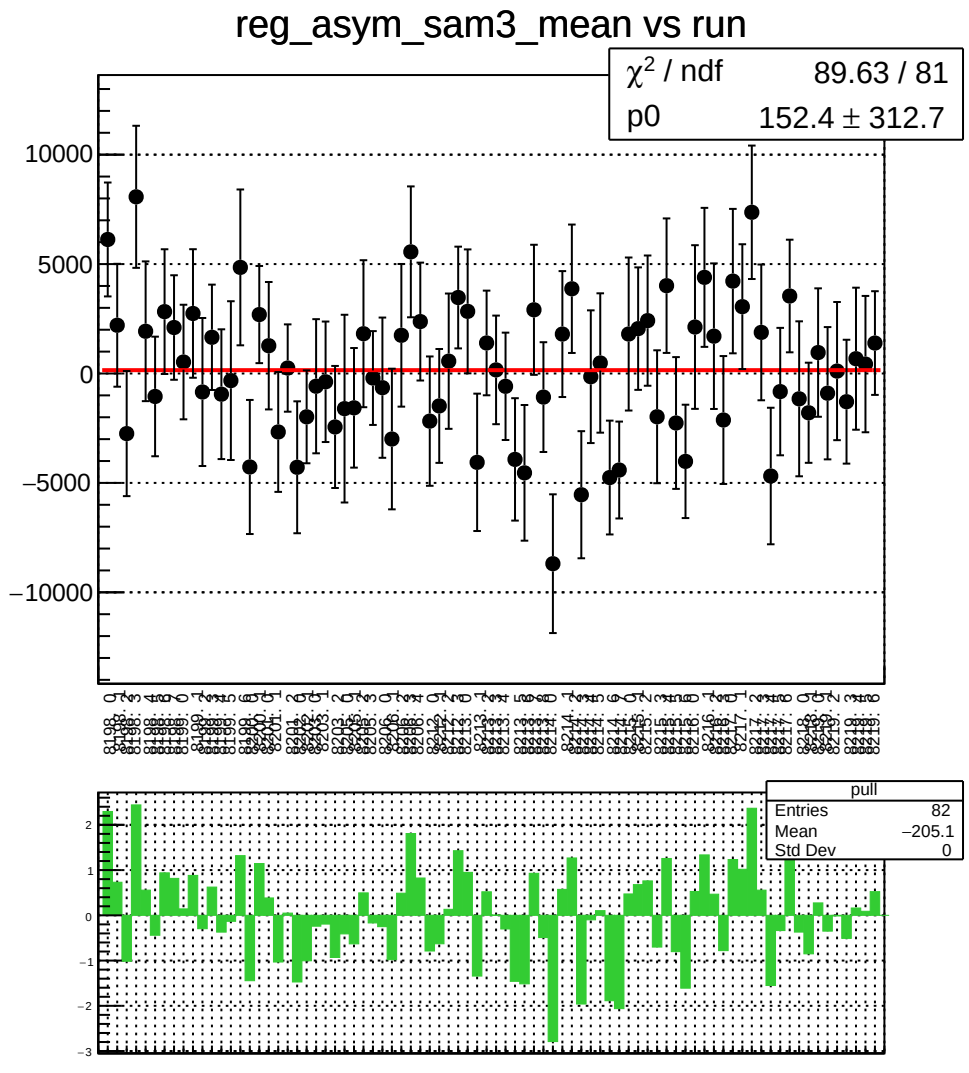

pull1D
Entries 82
Mean 0.01754
Std Dev 1.062

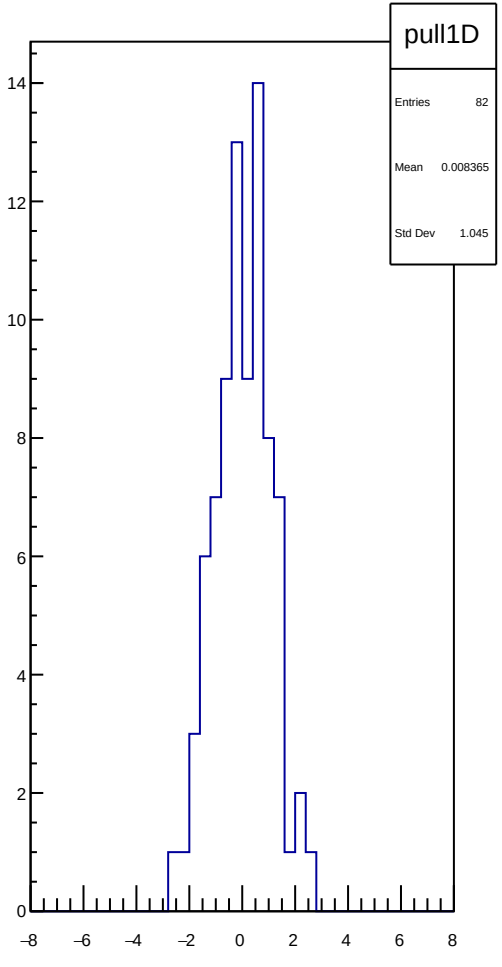

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.465e+04 / 81
p0 208.6 ± 0.1656
300
280
260
240
220
200
180
160


asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.12 / 81
p0 −5.841e−13 ± 3.732e−13
pull
Entries 82
Mean 23.58
Std Dev 0


pull1D
Entries 82
Mean 0.06191
Std Dev 0.9741


asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.733e+05 / 81
p0 2.828e−10 ± 2.639e−13
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 89.63 / 81
p0 152.4 ± 312.7
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −205.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.008365
Std Dev 1.045
14
12
10
8
6
4
2
0
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−6
−4
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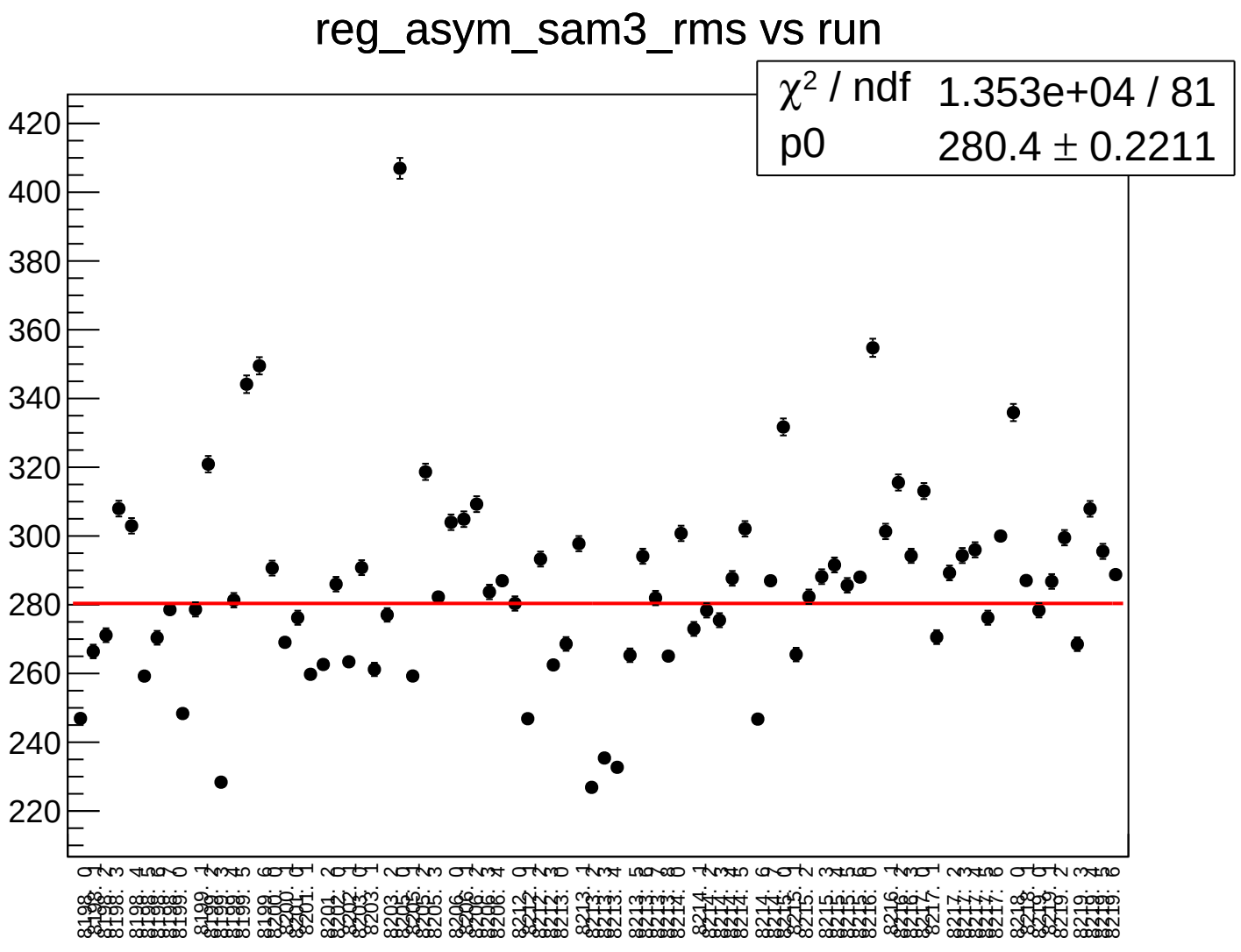
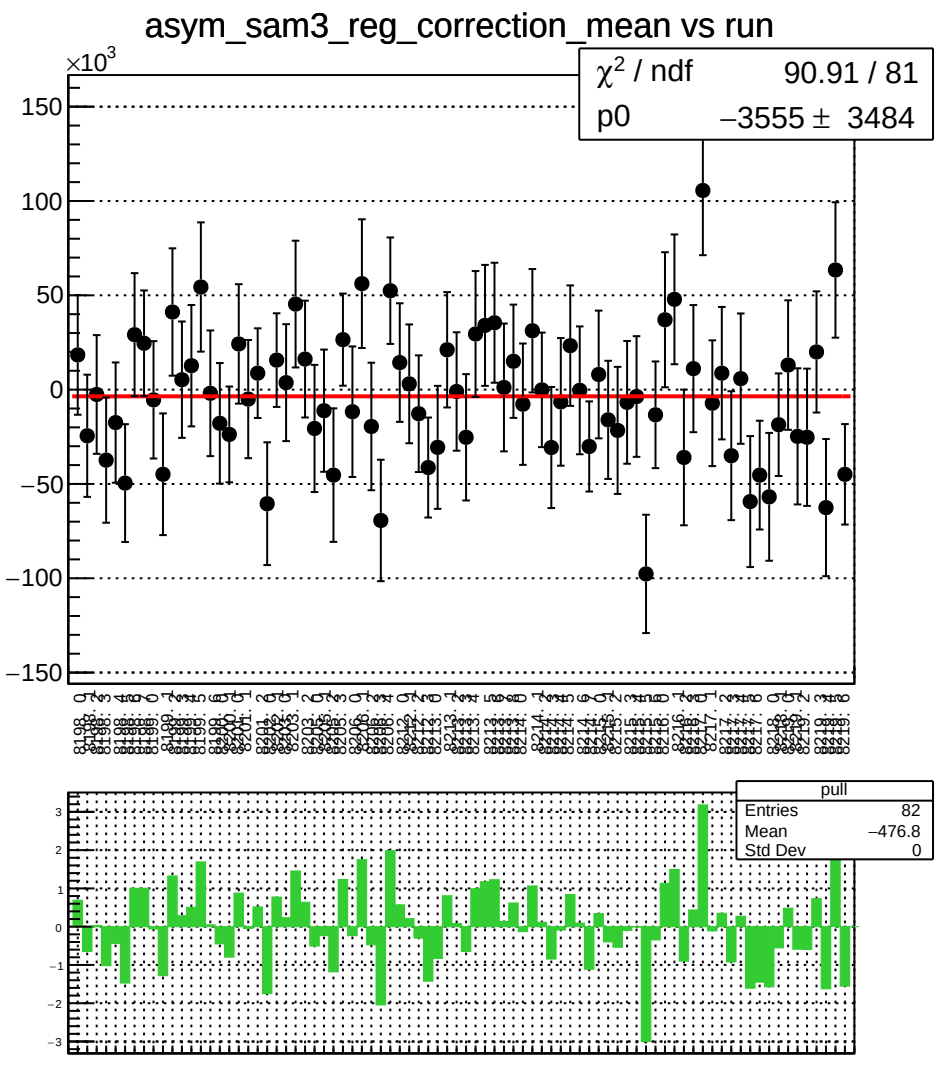
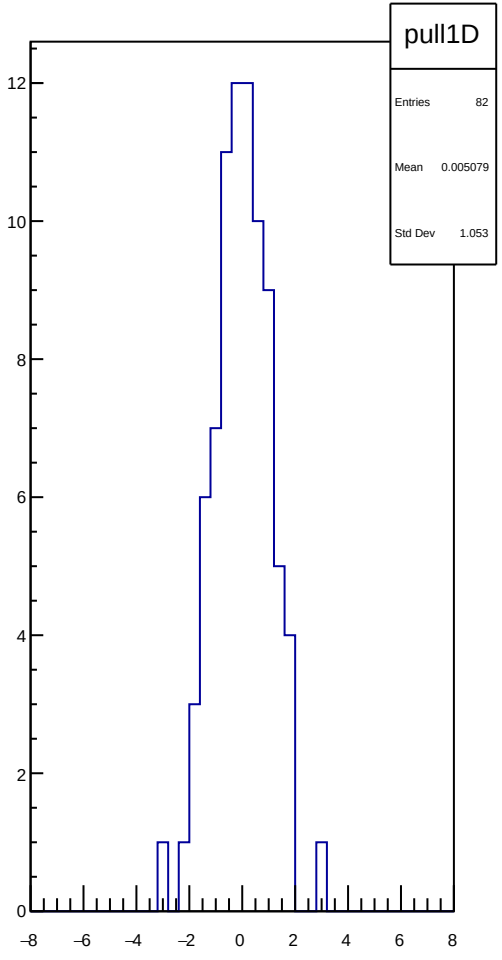
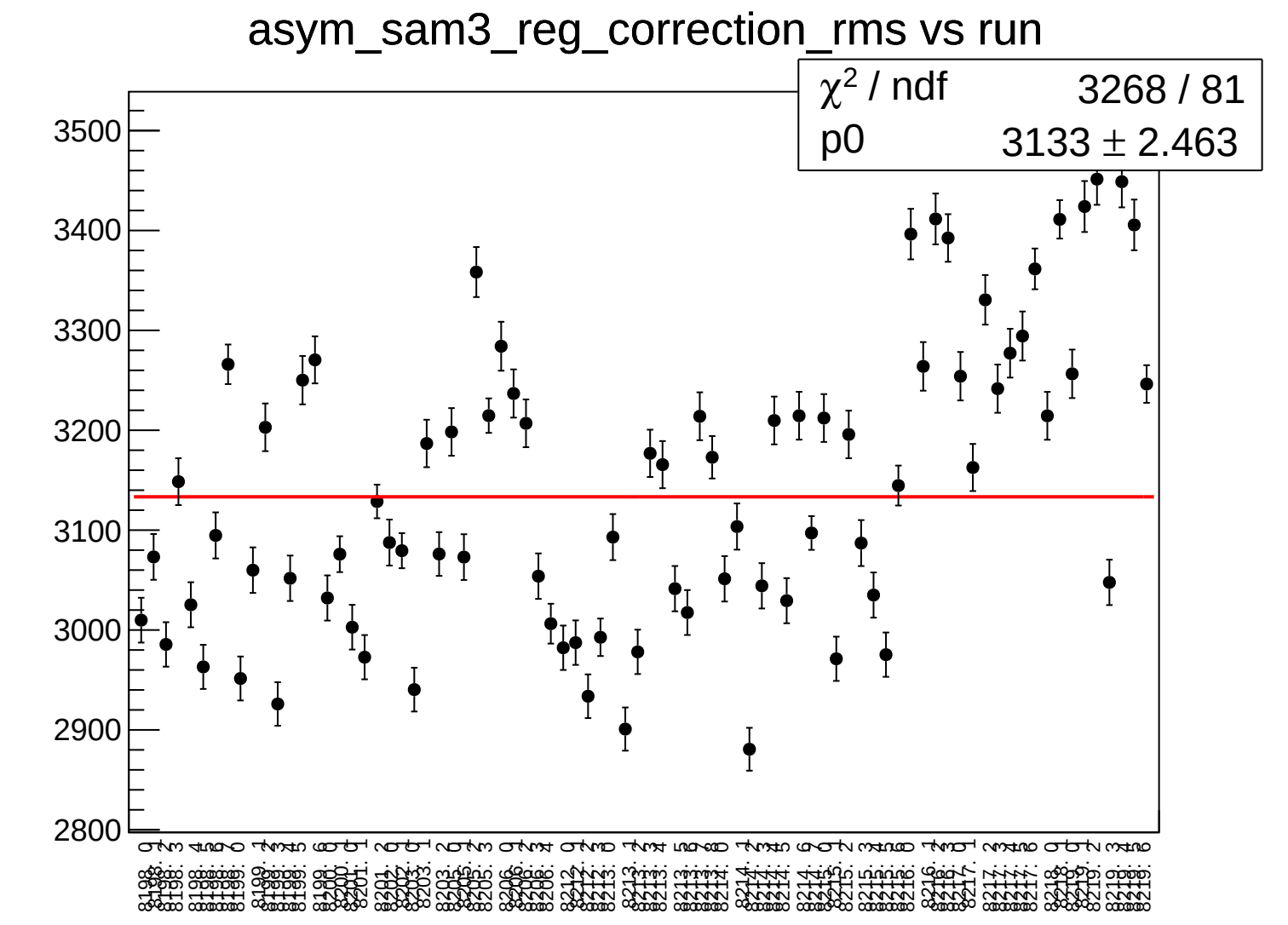
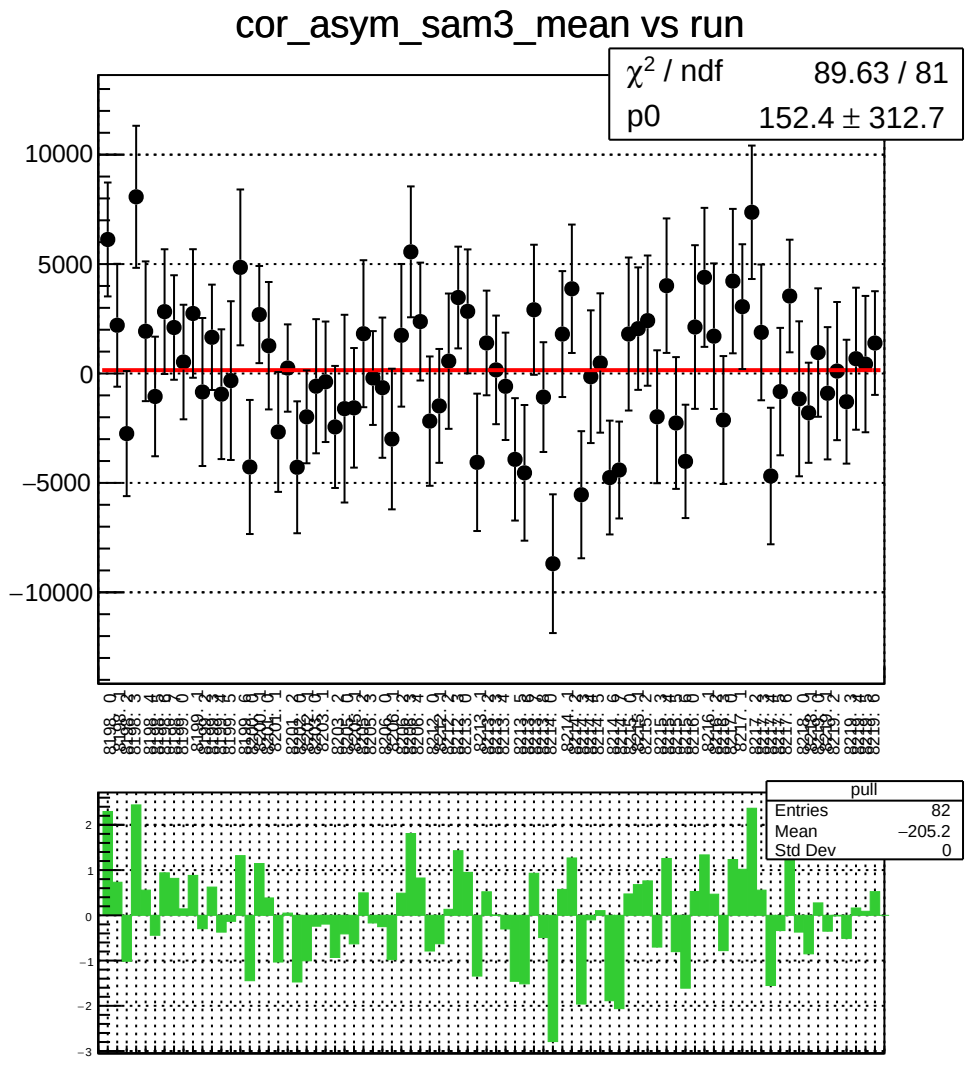
2
4
6
8

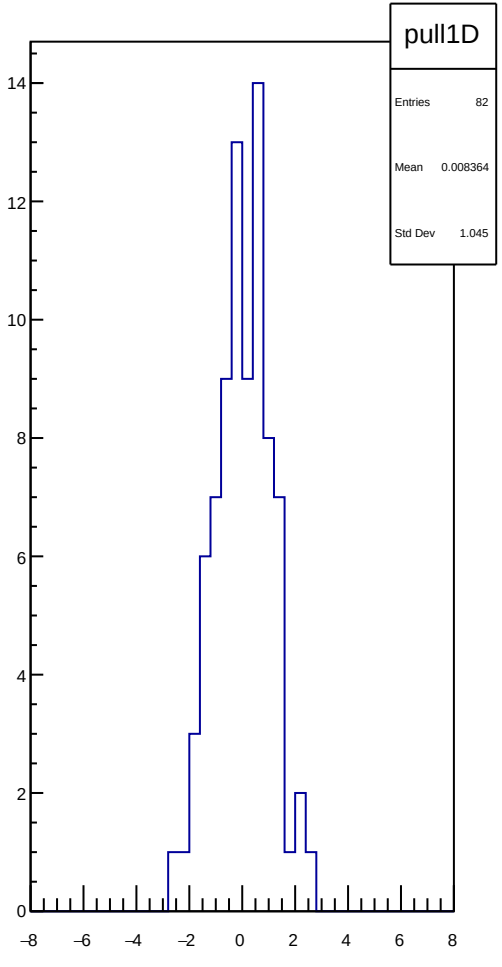

reg_asym_sam3_rms vs run
χ² / ndf 1.353e+04 / 81
p0 280.4 ± 0.2211
420
400
380
360
340
320
300
280
260
240
220


asym_sam3_reg_correction_mean vs run
χ² / ndf 90.91 / 81
p0 −3555 ± 3484
pull
Entries 82
Mean −476.8
Std Dev 0


pull1D
Entries 82
Mean 0.005079
Std Dev 1.053


asym_sam3_reg_correction_rms vs run
χ² / ndf 3268 / 81
p0 3133 ± 2.463
3500
3400
3300
3200
3100
3000
2900
2800


cor_asym_sam3_mean vs run
χ² / ndf 89.63 / 81
p0 152.4 ± 312.7
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −205.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.008364
Std Dev 1.045
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12
10
8
6
4
2
0
−8
−6
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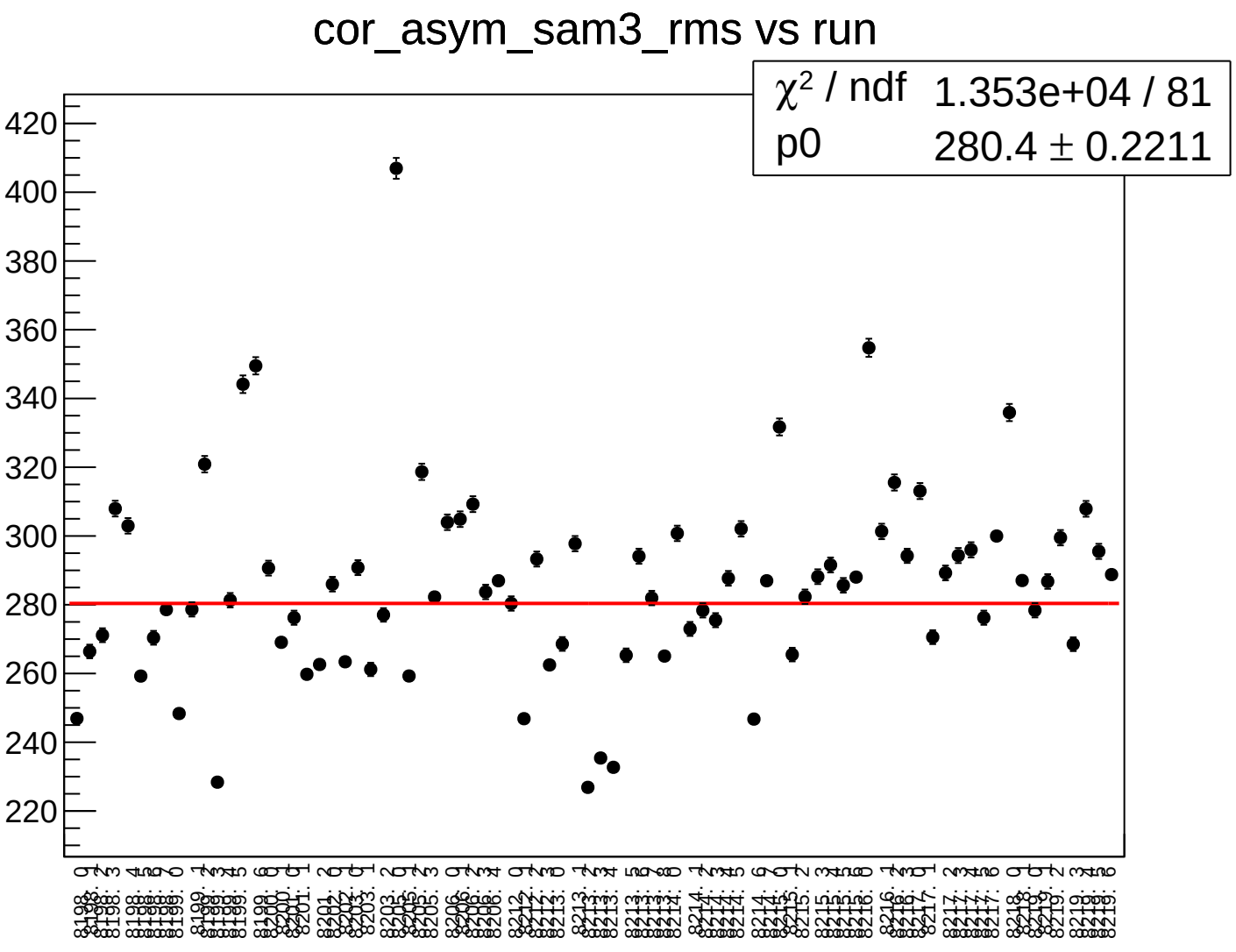
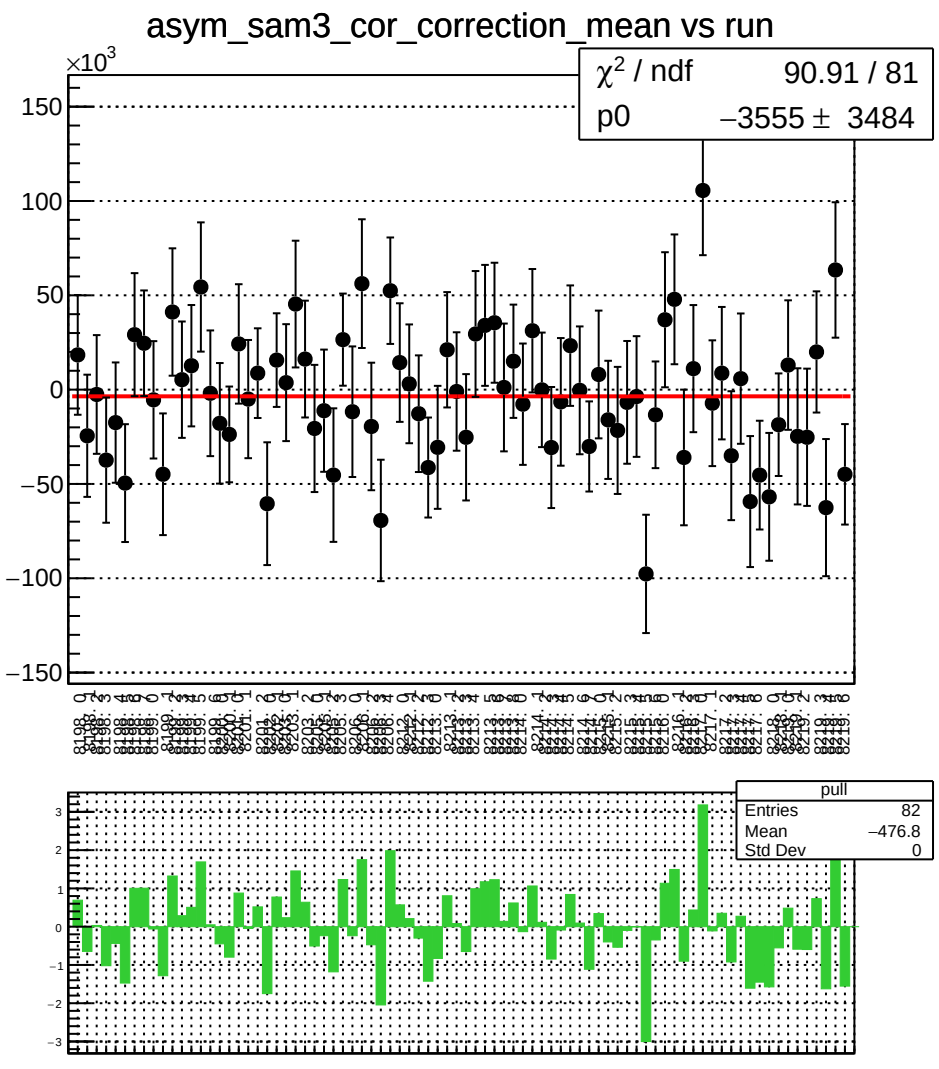
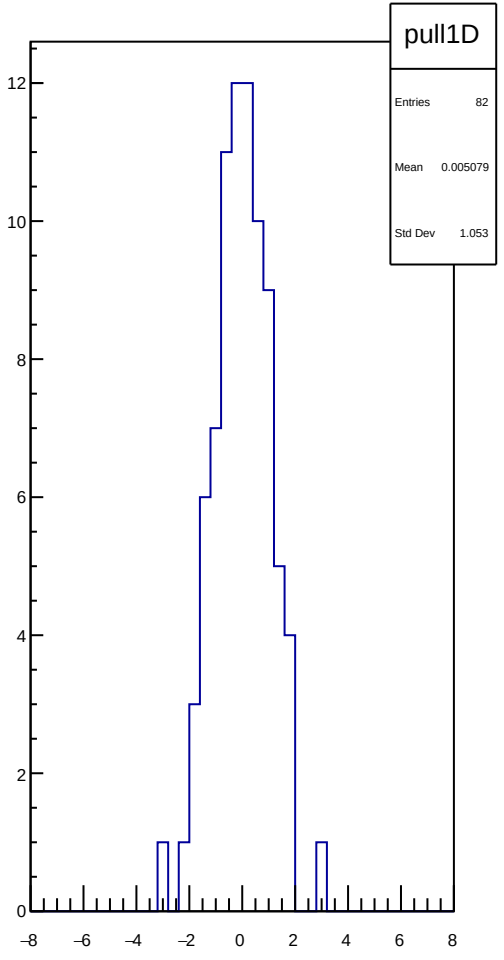
0
2
4
6
8


cor_asym_sam3_rms vs run
χ² / ndf 1.353e+04 / 81
p0 280.4 ± 0.2211
420
400
380
360
340
320
300
280
260
240
220


asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 90.91 / 81
p0 −3555 ± 3484
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −476.8
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.005079
Std Dev 1.053
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10
8
6
4
2
0
−8
−6
−4
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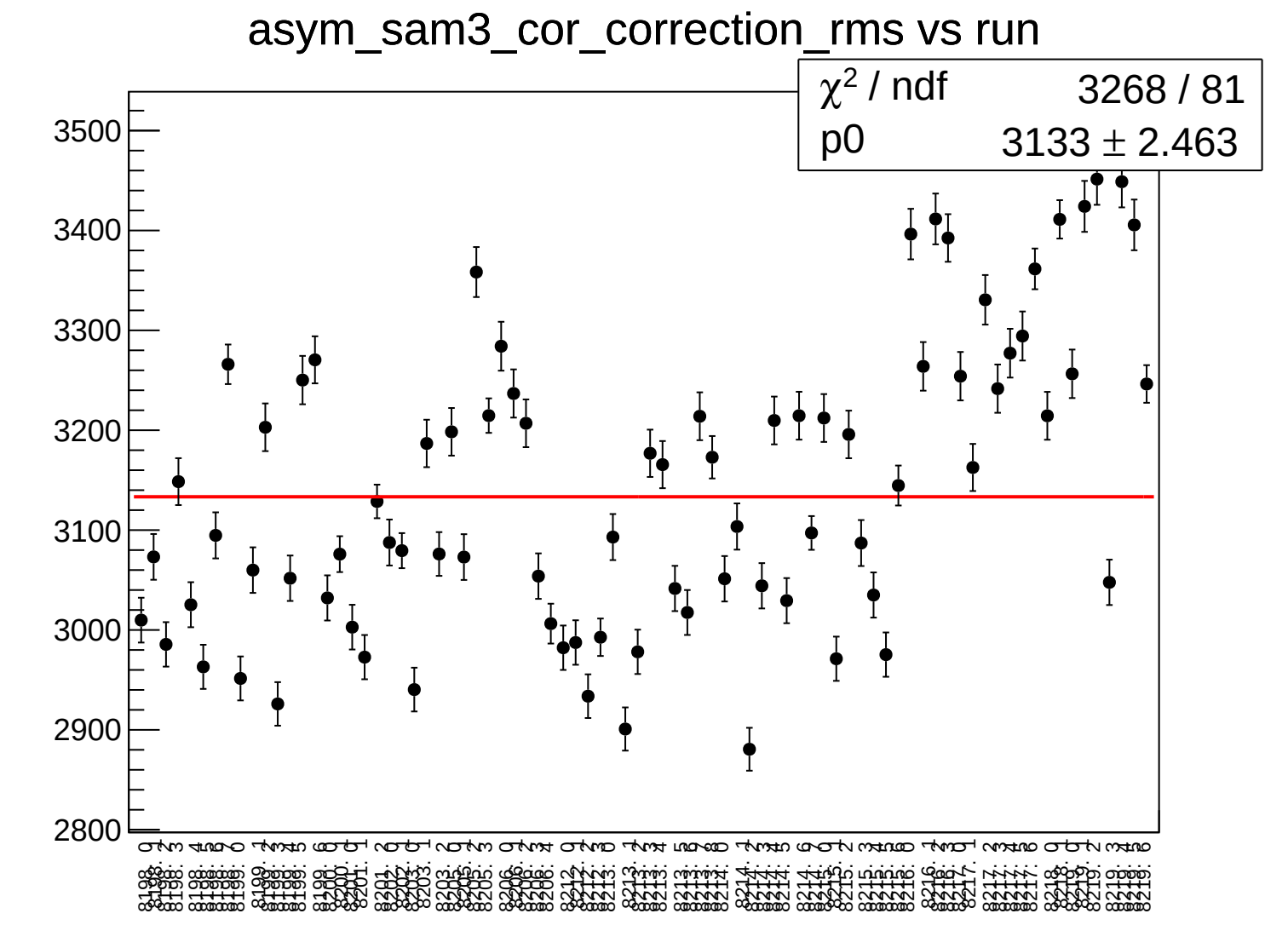
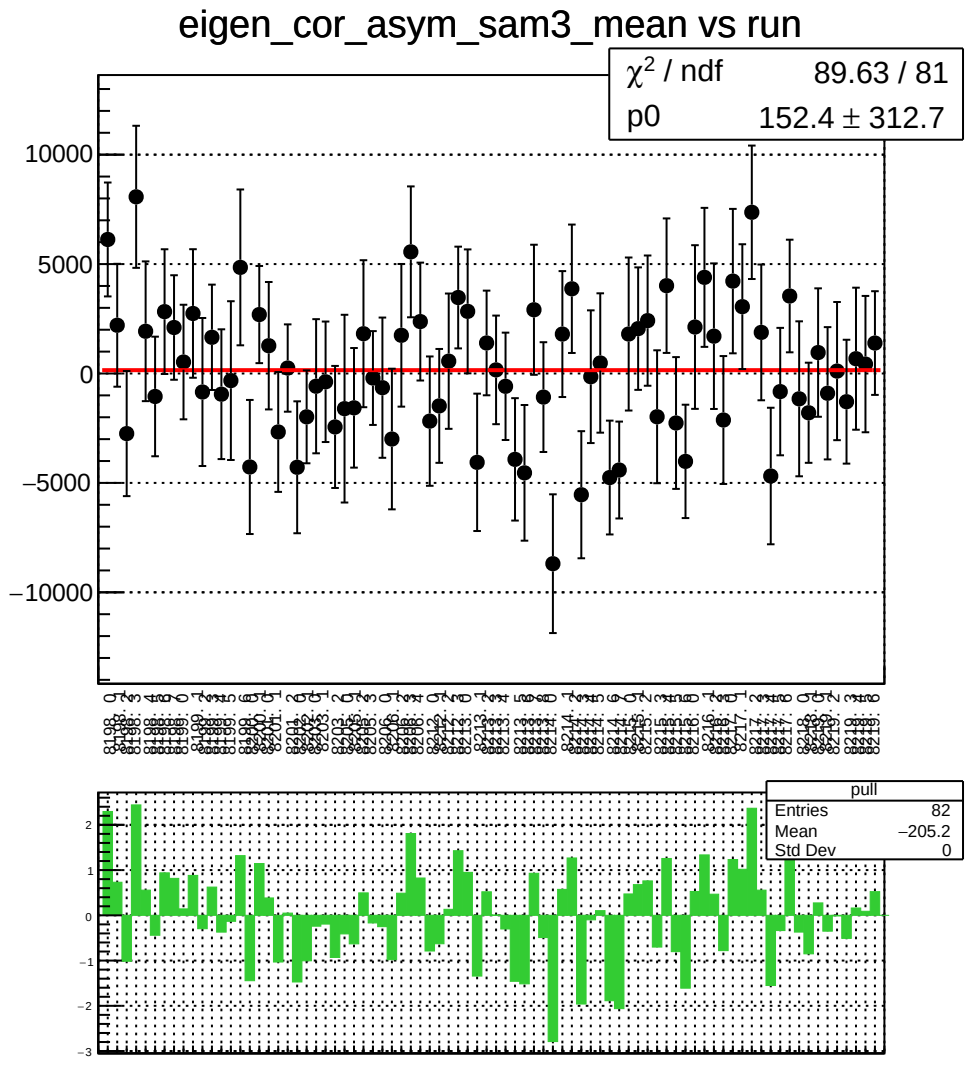
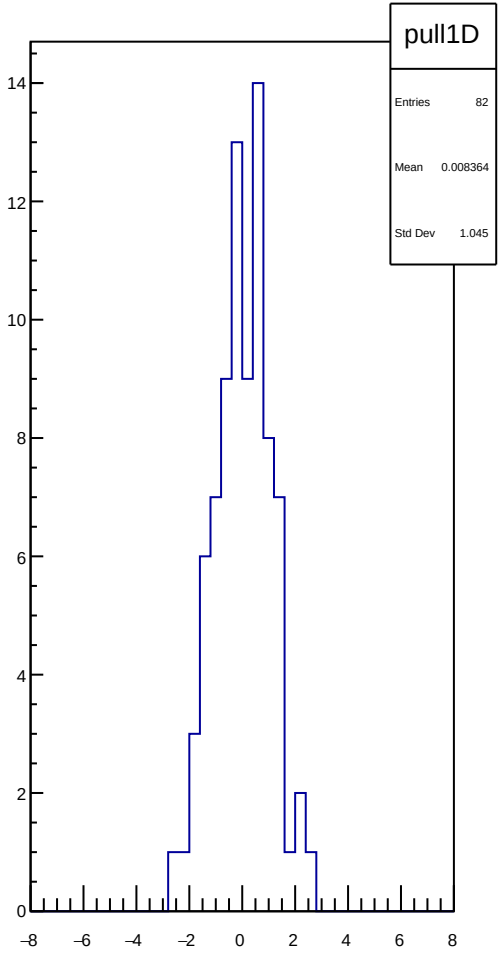
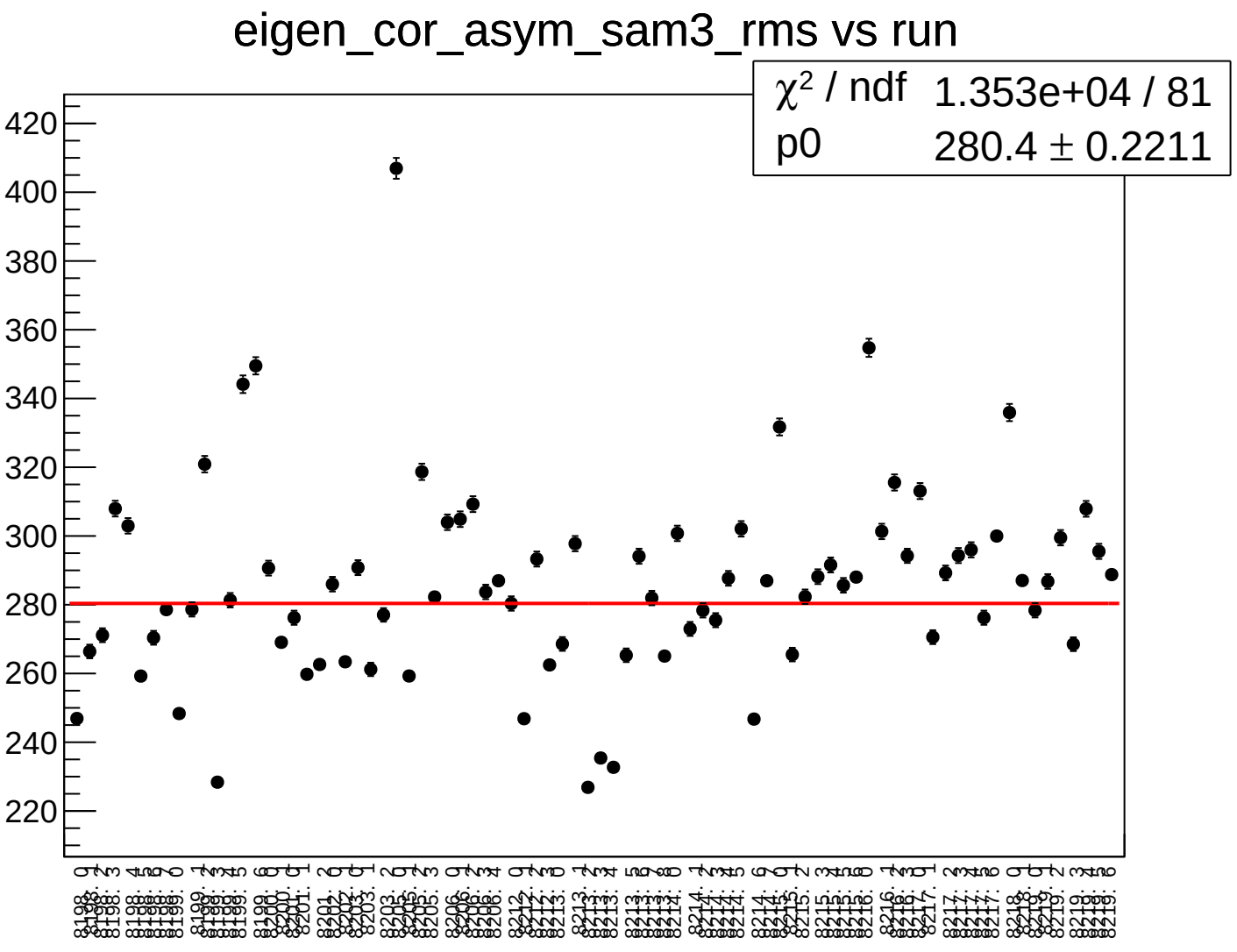
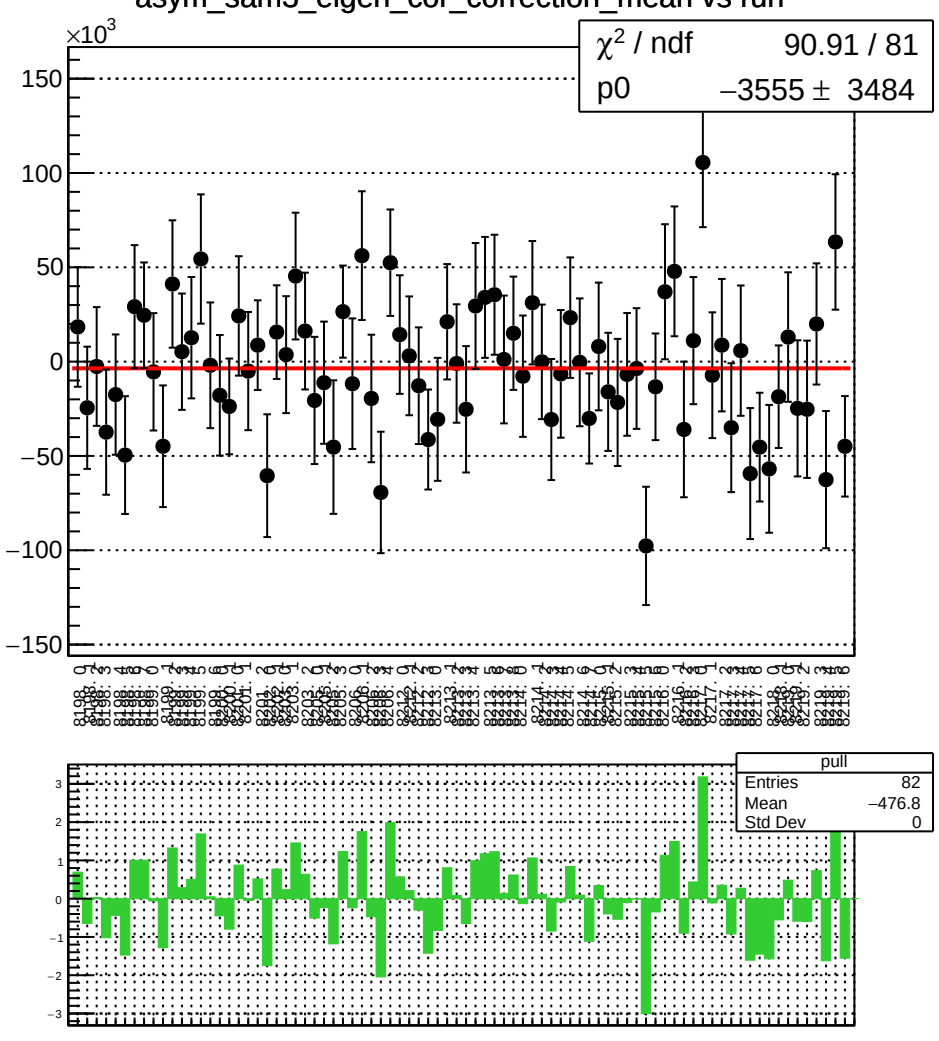
2
4
6
8

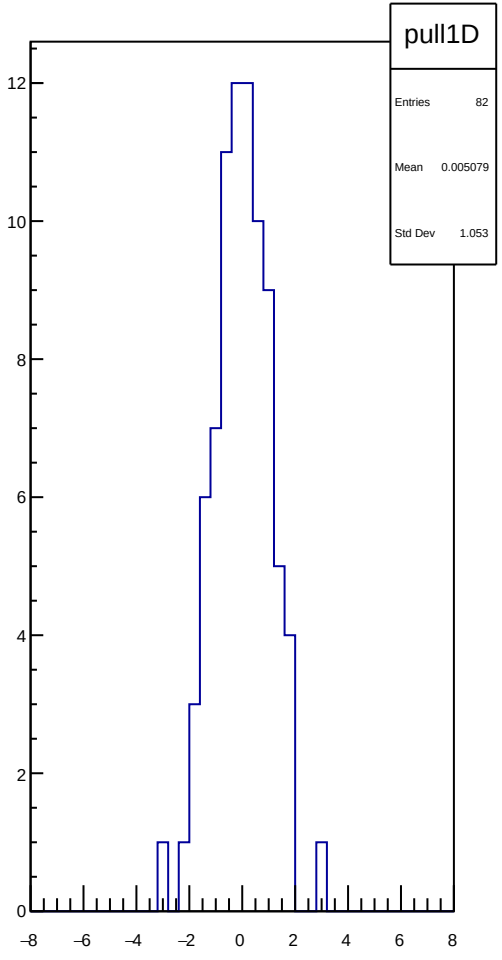

asym_sam3_cor_correction_rms vs run
χ² / ndf 3268 / 81
p0 3133 ± 2.463
3500
3400
3300
3200
3100
3000
2900
2800


eigen_cor_asym_sam3_mean vs run
χ² / ndf 89.63 / 81
p0 152.4 ± 312.7
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −205.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.008364
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.353e+04 / 81
p0 280.4 ± 0.2211
420
400
380
360
340
320
300
280
260
240
220


asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.91 / 81
p0 −3555 ± 3484
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −476.8
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.005079
Std Dev 1.053
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10
8
6
4
2
0
−8
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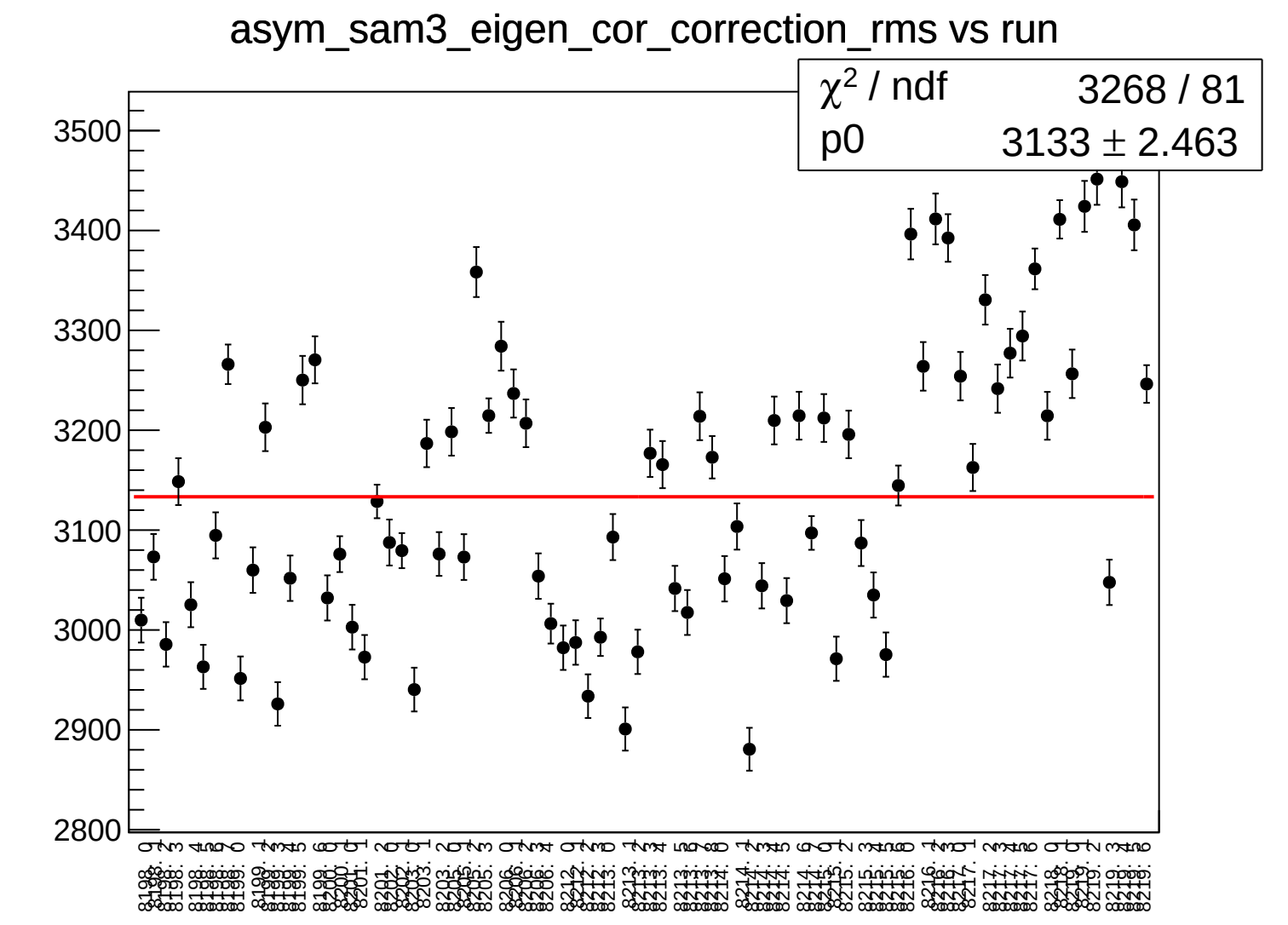
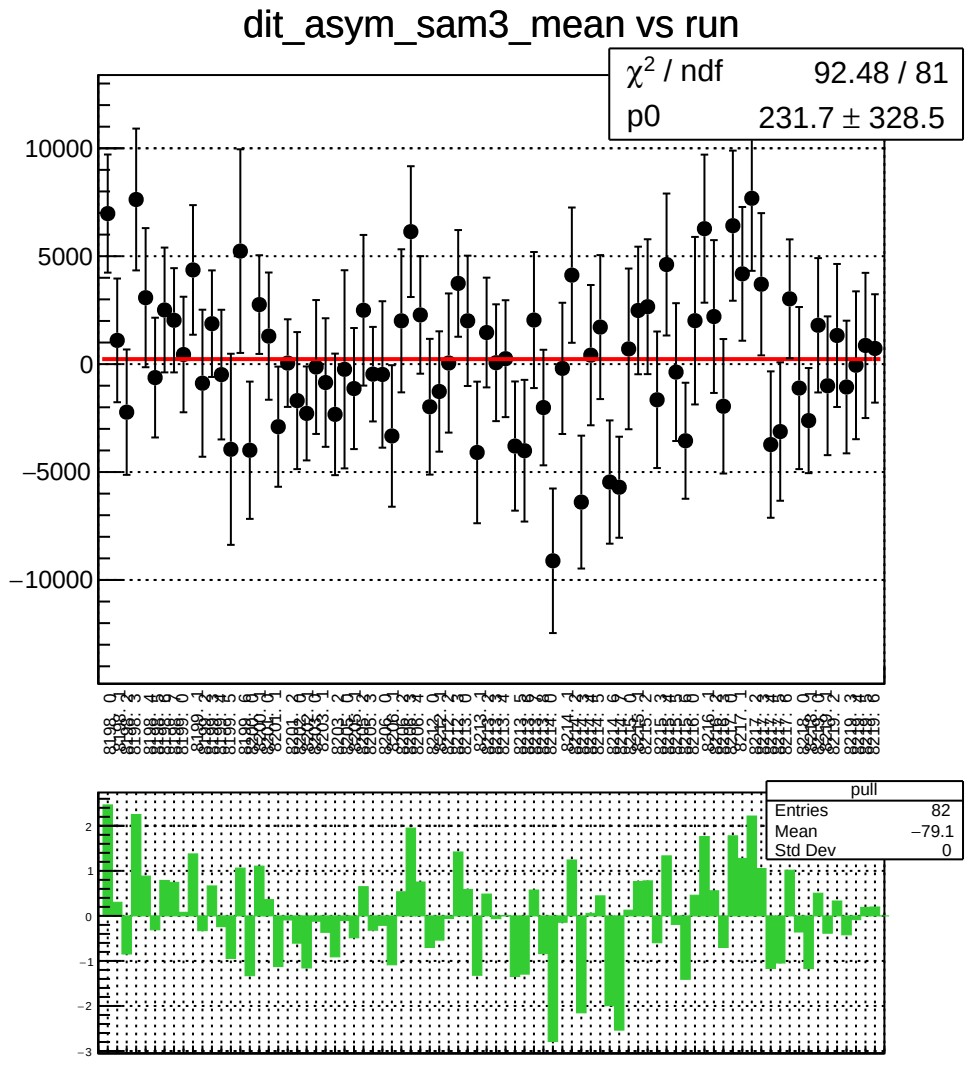
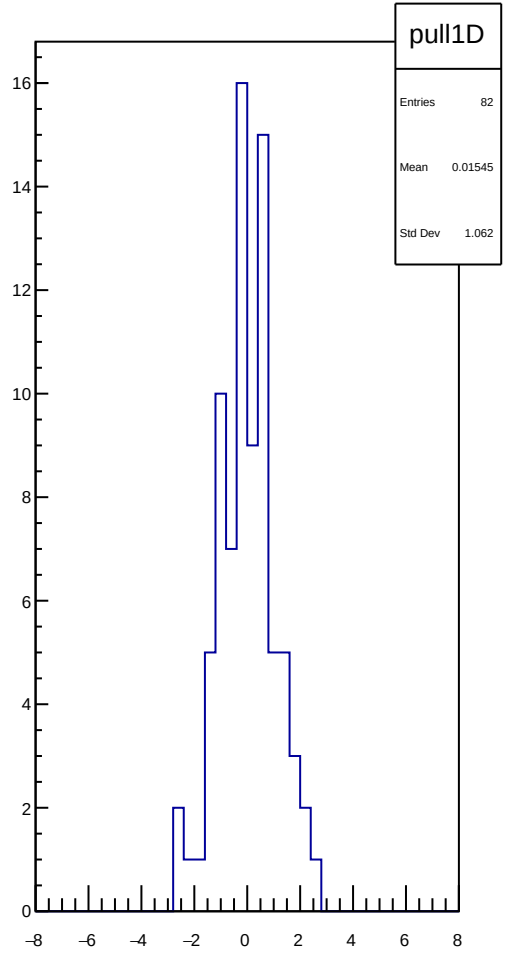
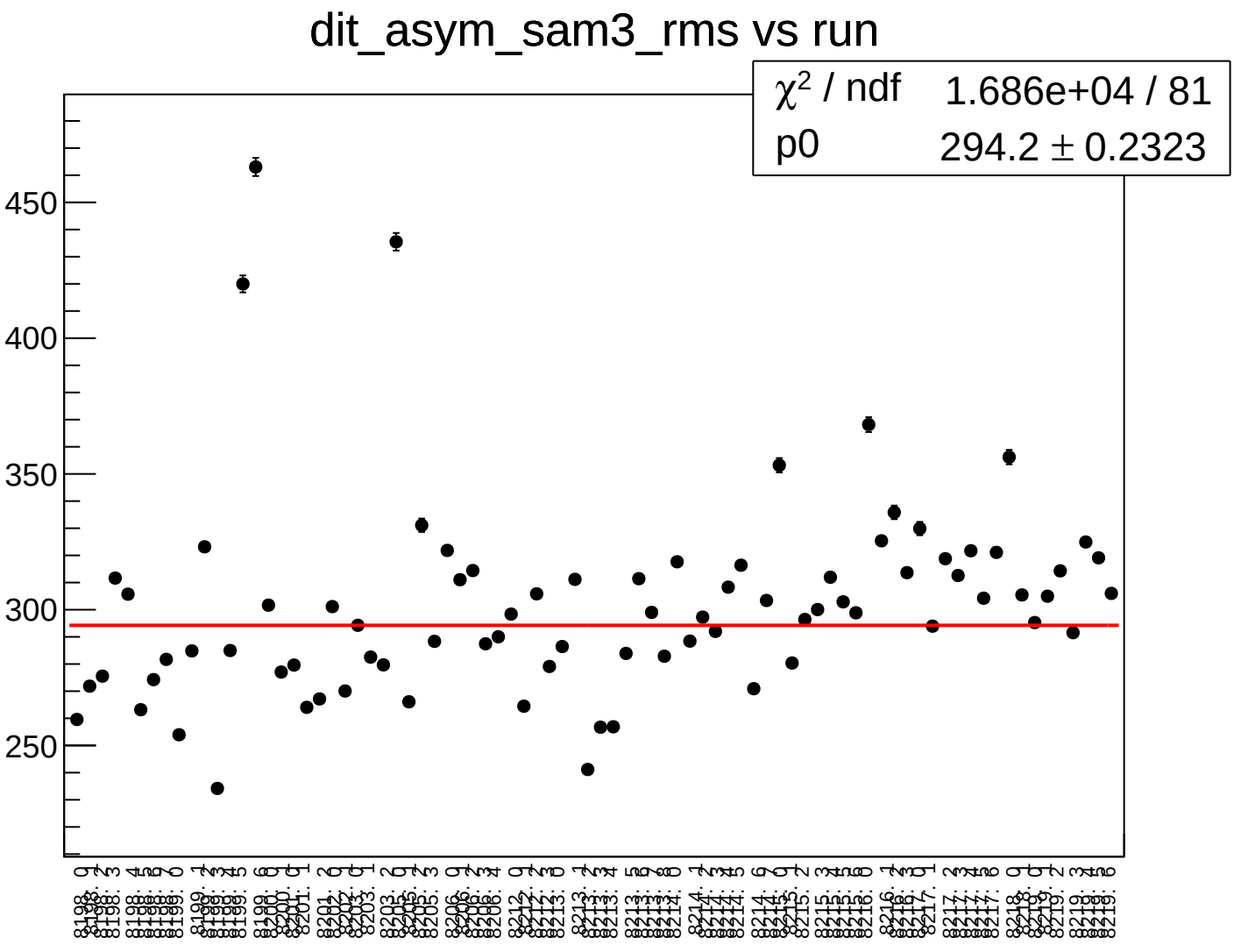
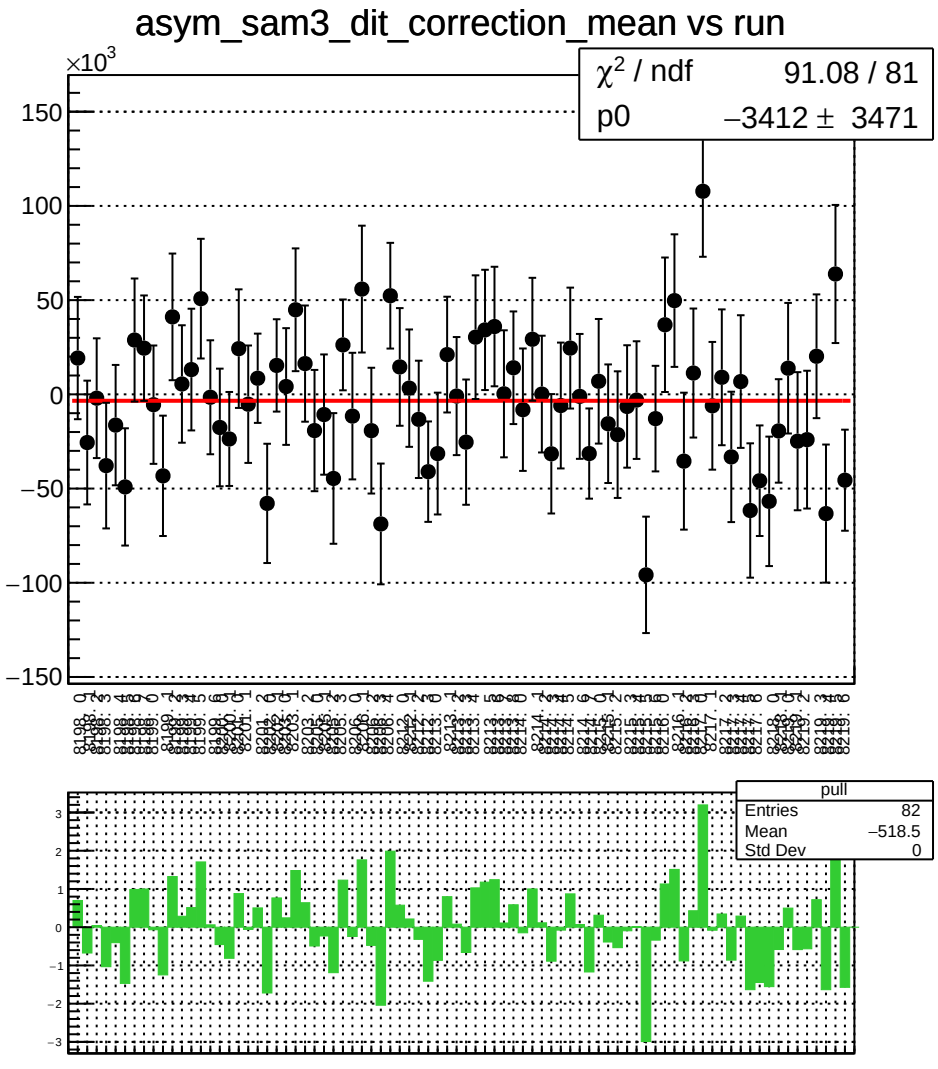
−4
−2
0
2
4
6
8

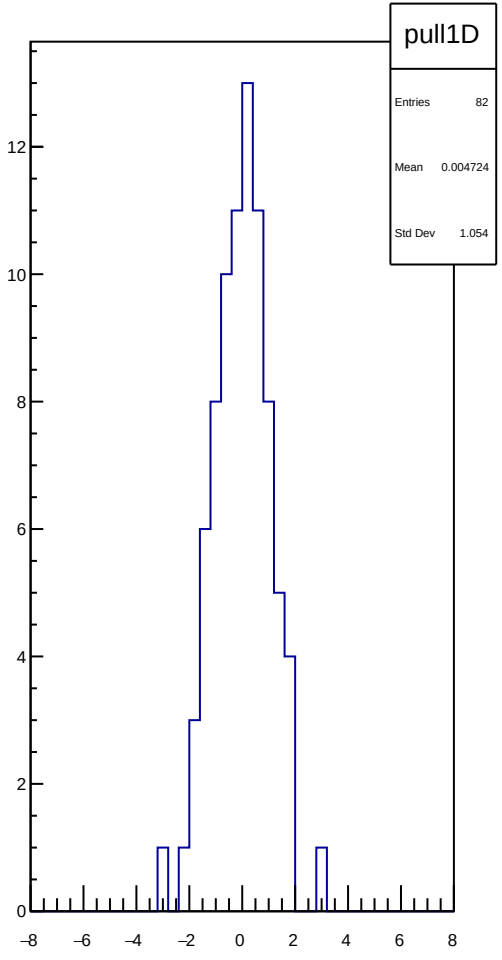

asym_sam3_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 3268 / 81
p0 3133 ± 2.463
3500
3400
3300
3200
3100
3000
2900
2800


dit_asym_sam3_mean vs run
χ² / ndf 92.48 / 81
p0 231.7 ± 328.5
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −79.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.01545
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam3_rms vs run
χ² / ndf 1.686e+04 / 81
p0 294.2 ± 0.2323
450
400
350
300
250


asym_sam3_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.08 / 81
p0 −3412 ± 3471
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −518.5
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.004724
Std Dev 1.054
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10
8
6
4
2
0
−8
−6
−4
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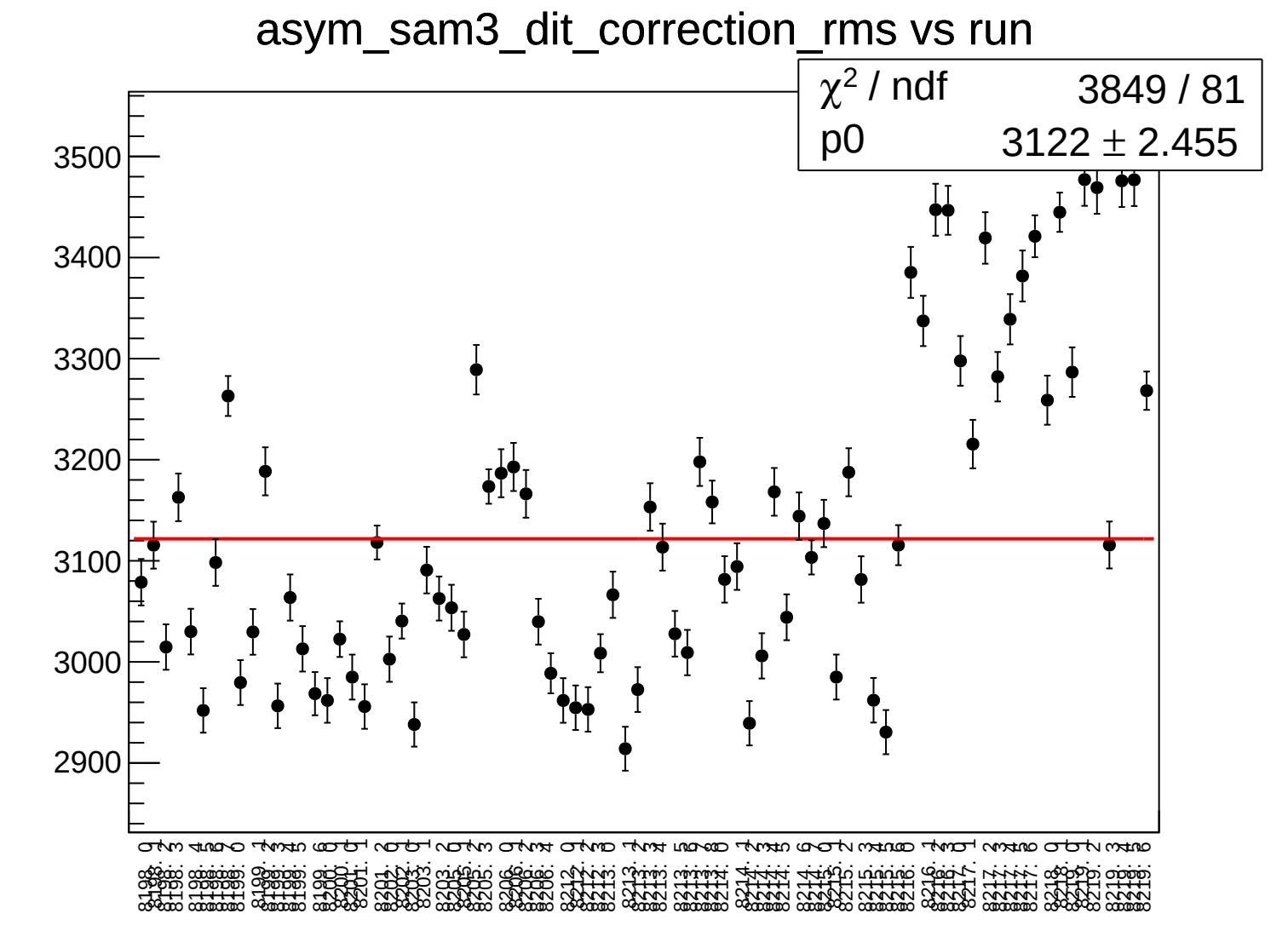
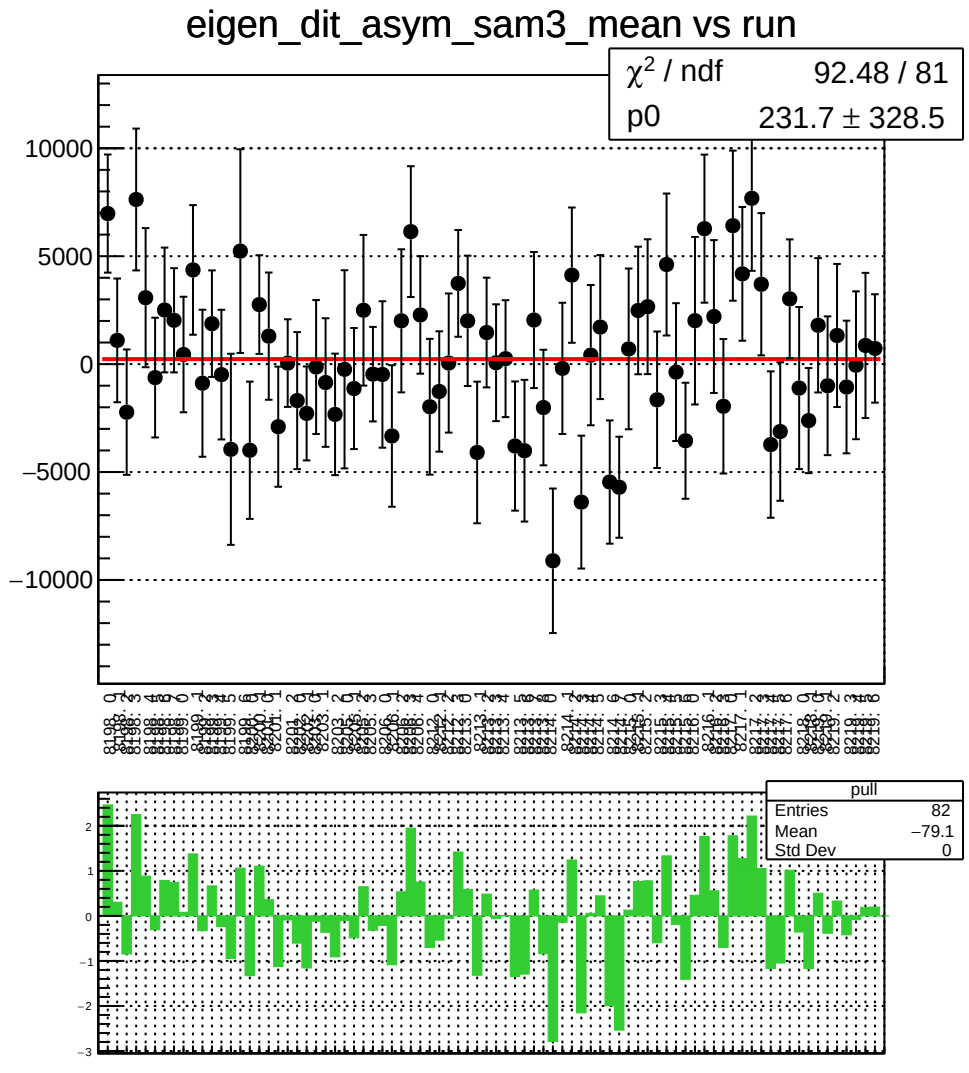
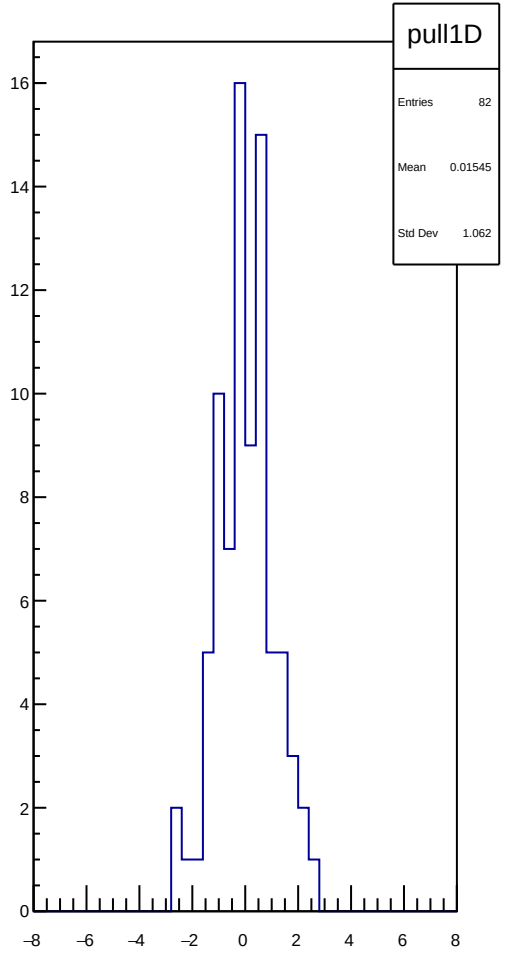
2
4
6
8


asym_sam3_dit_correction_rms vs run
χ² / ndf 3849 / 81
p0 3122 ± 2.455
3500
3400
3300
3200
3100
3000
2900


eigen_dit_asym_sam3_mean vs run
χ² / ndf 92.48 / 81
p0 231.7 ± 328.5
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −79.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.01545
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
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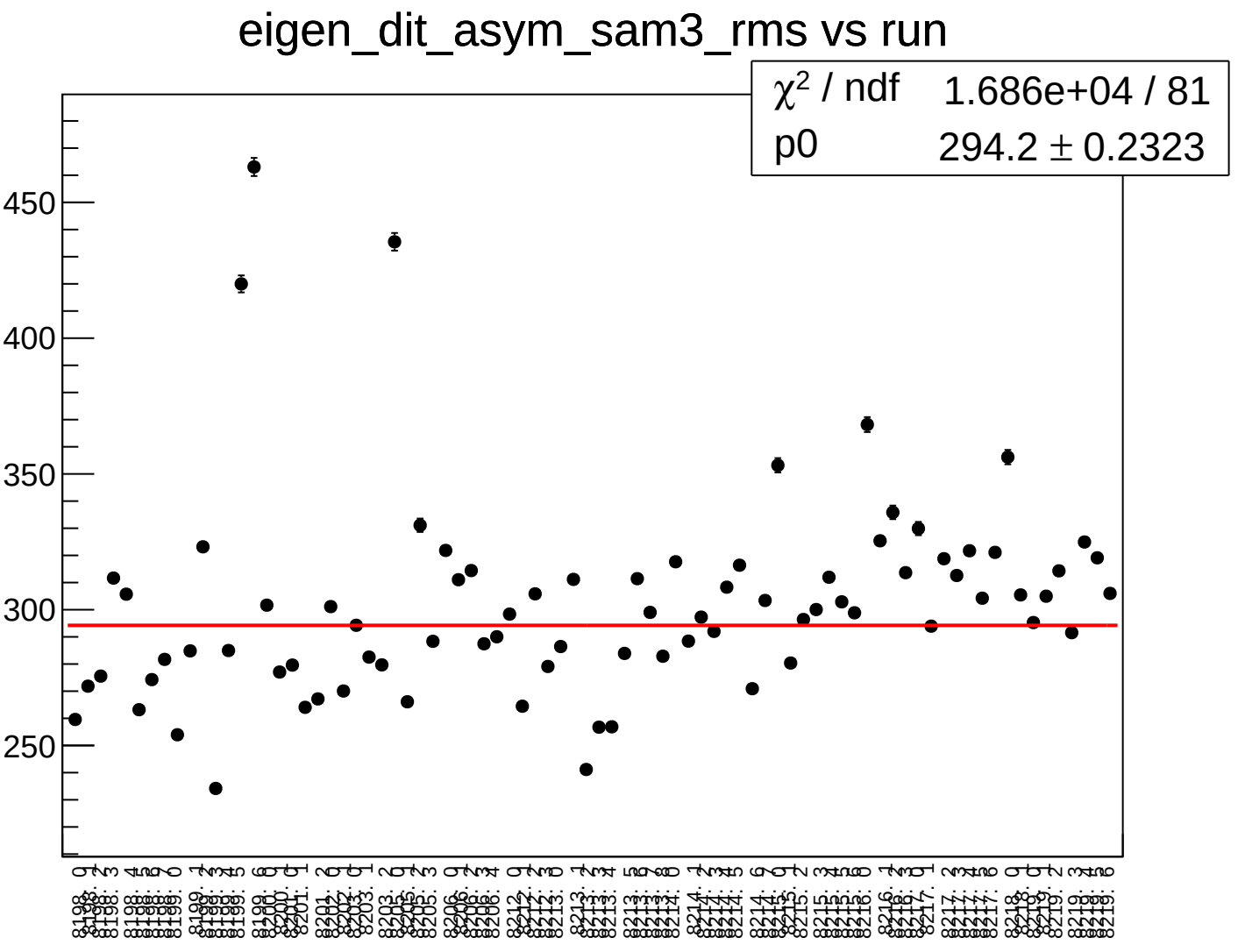
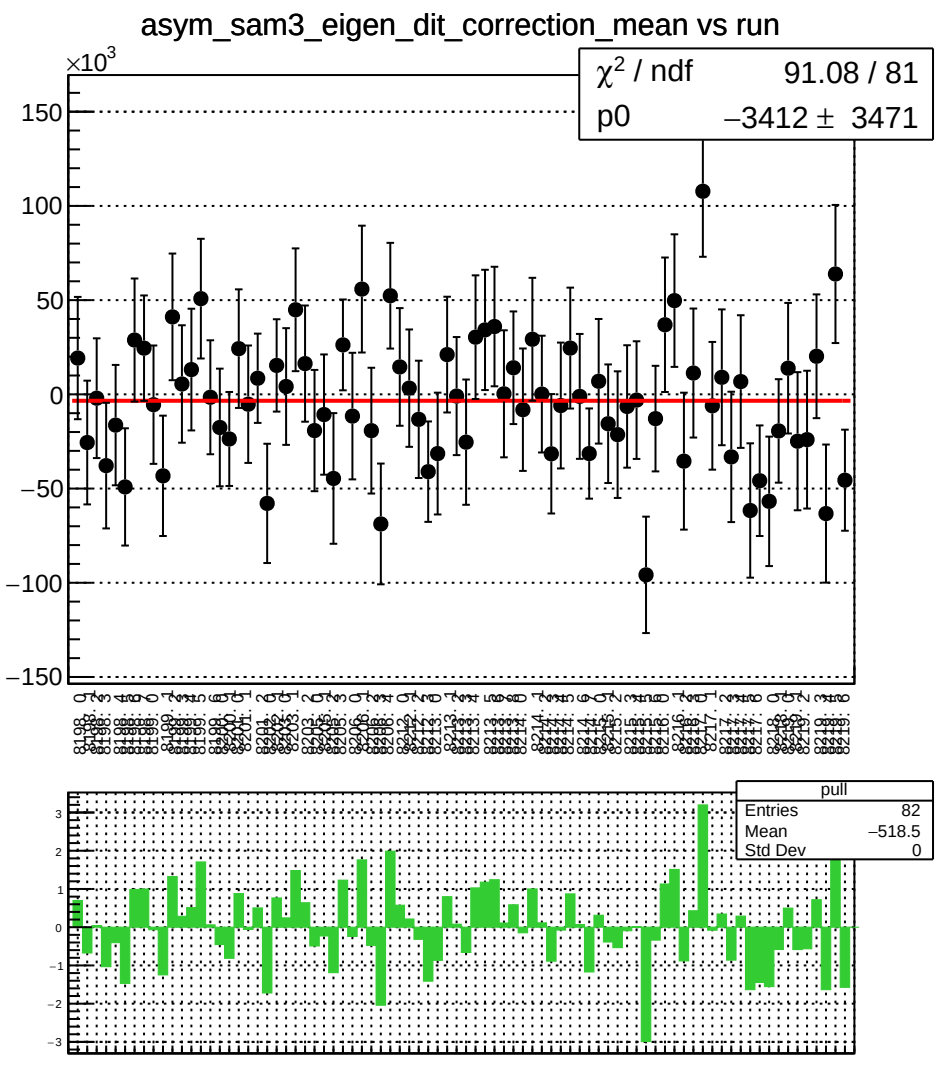
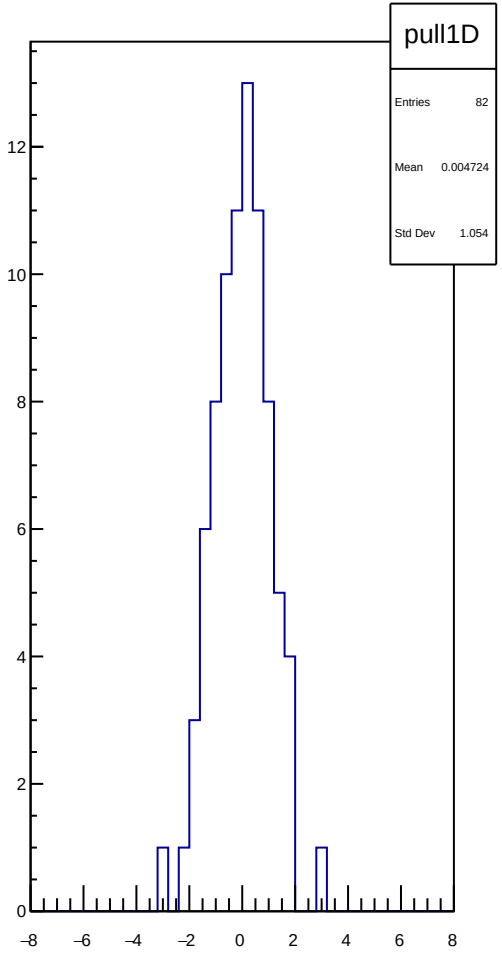
−4
−2
0
2
4
6
8


eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.686e+04 / 81
p0 294.2 ± 0.2323
450
400
350
300
250


asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.08 / 81
p0 −3412 ± 3471
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −518.5
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.004724
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
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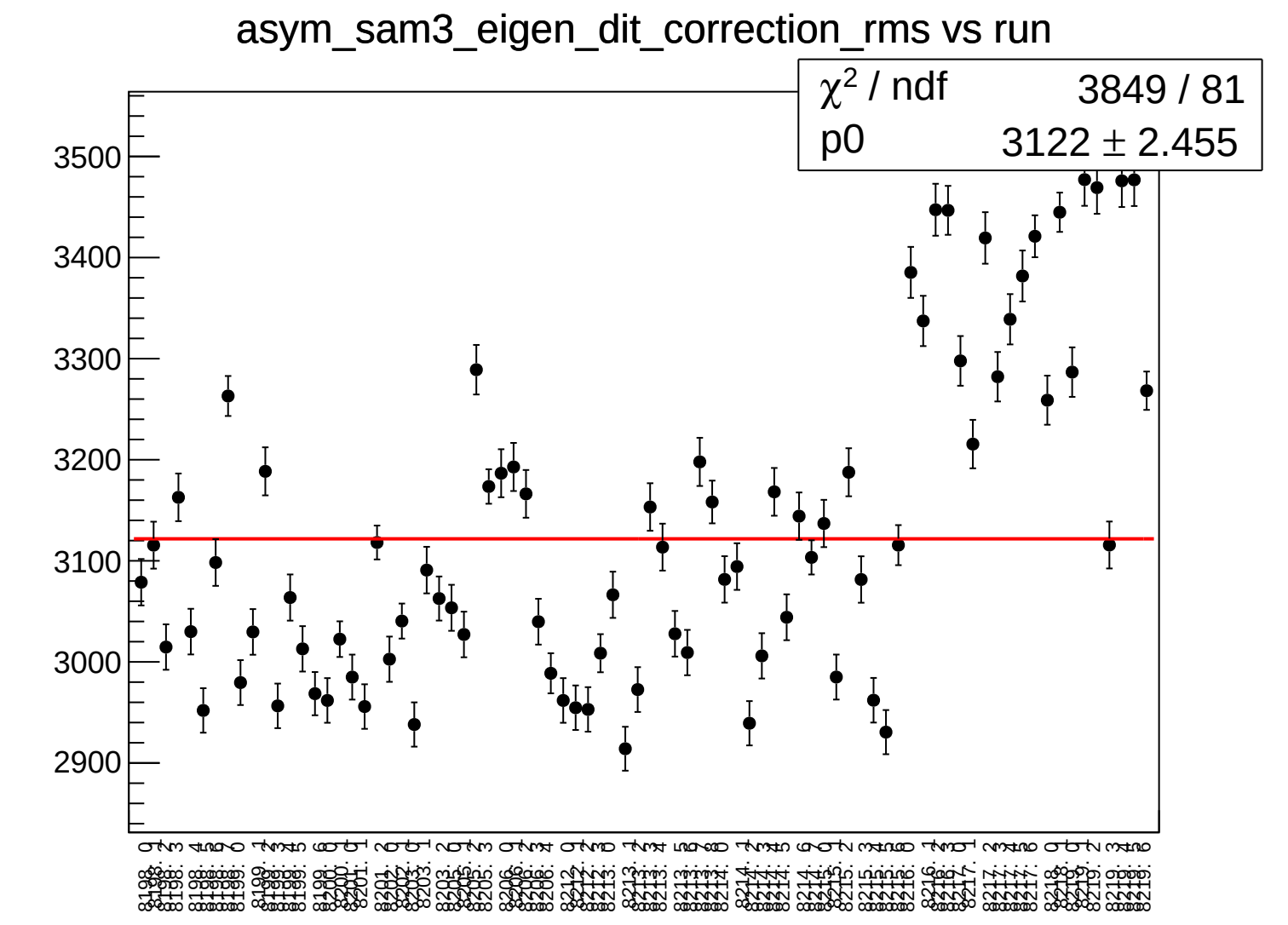
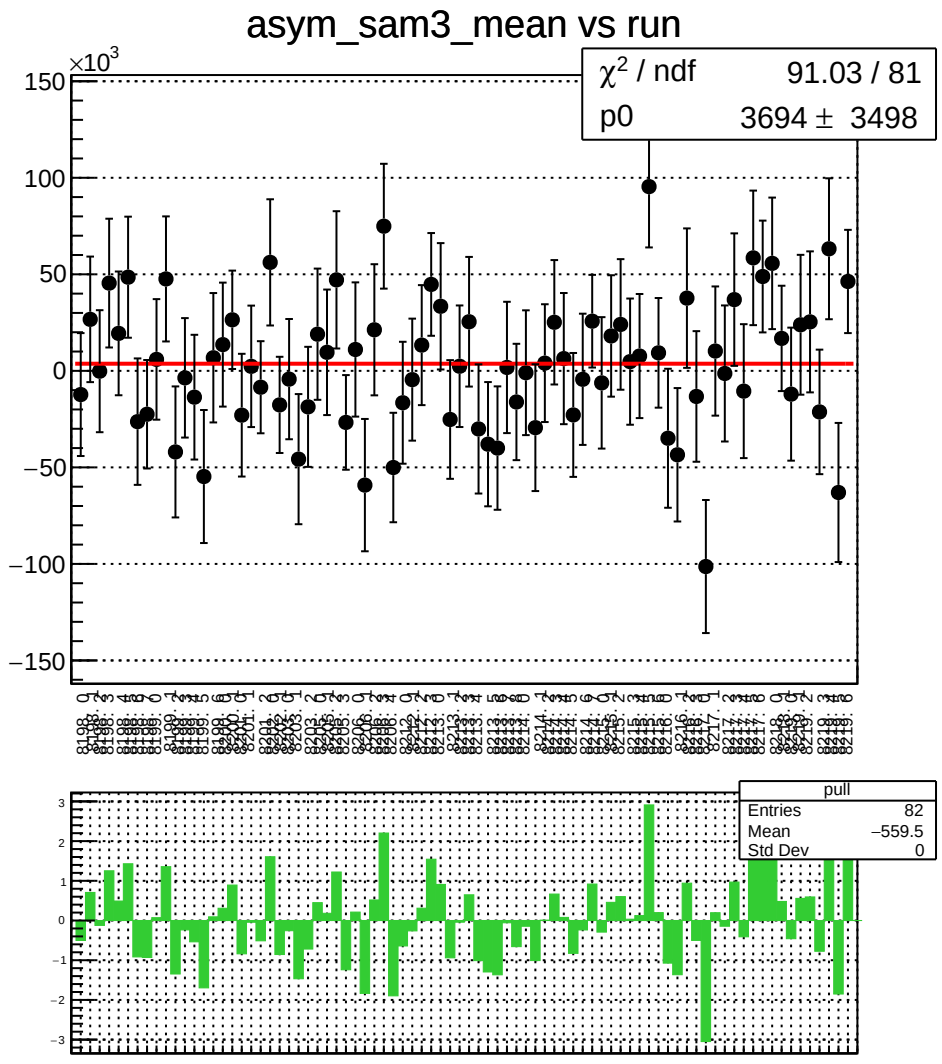
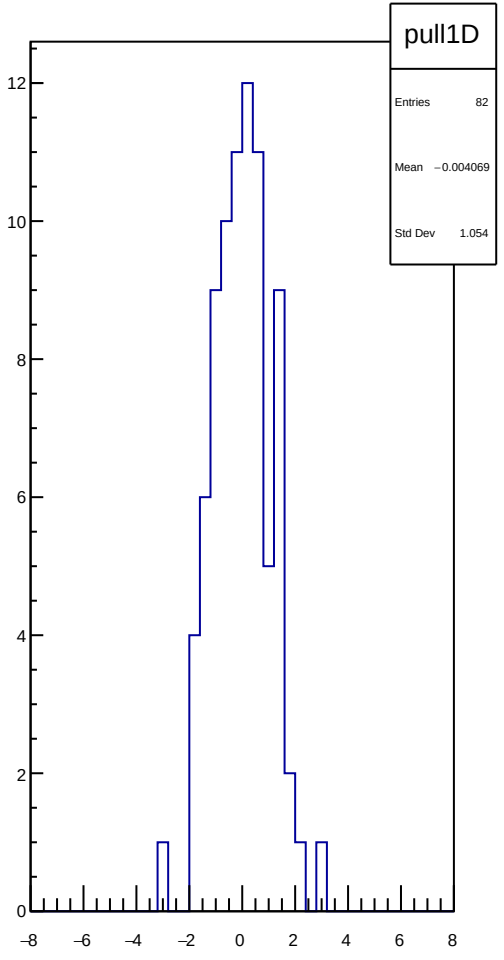
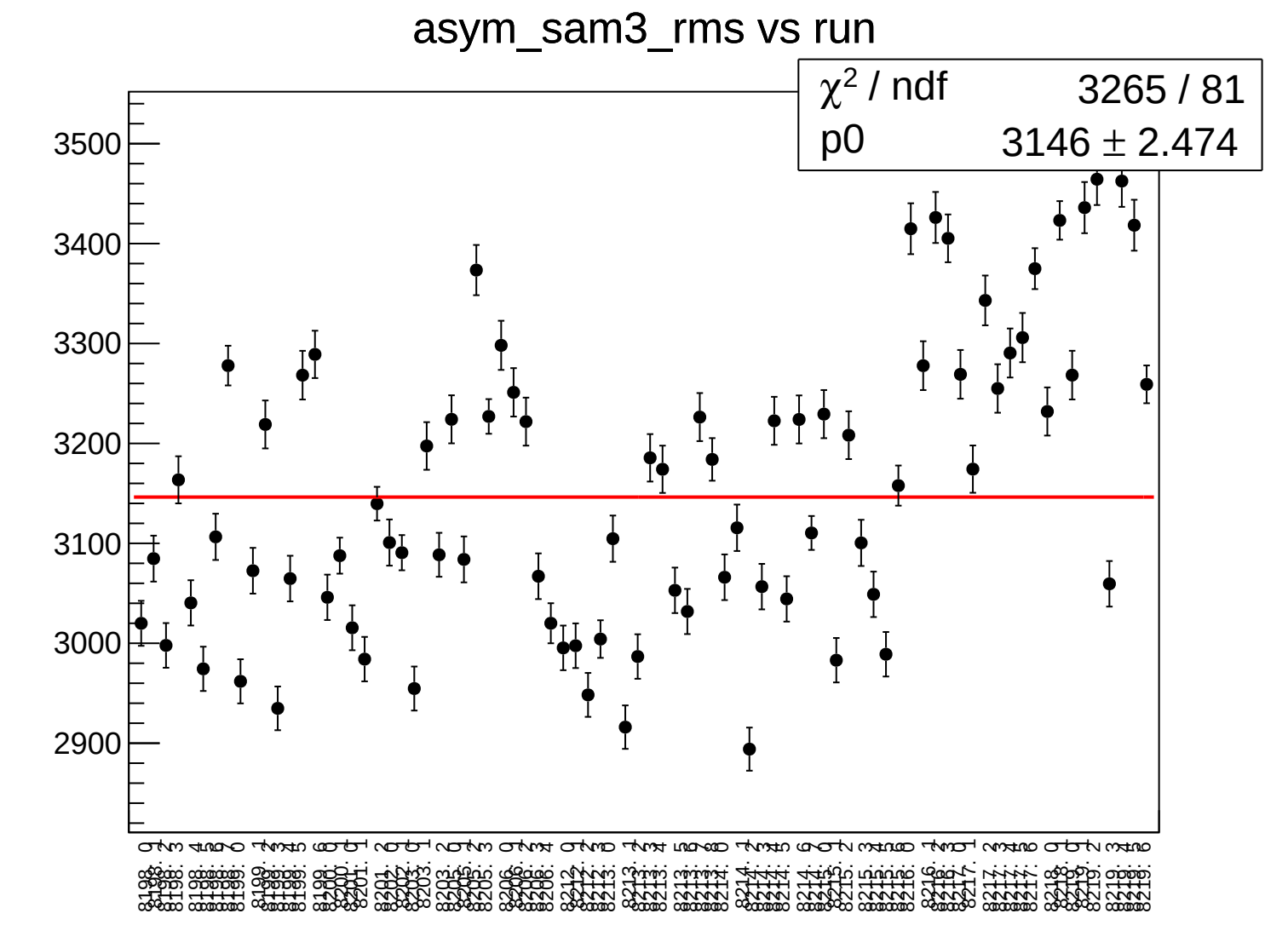
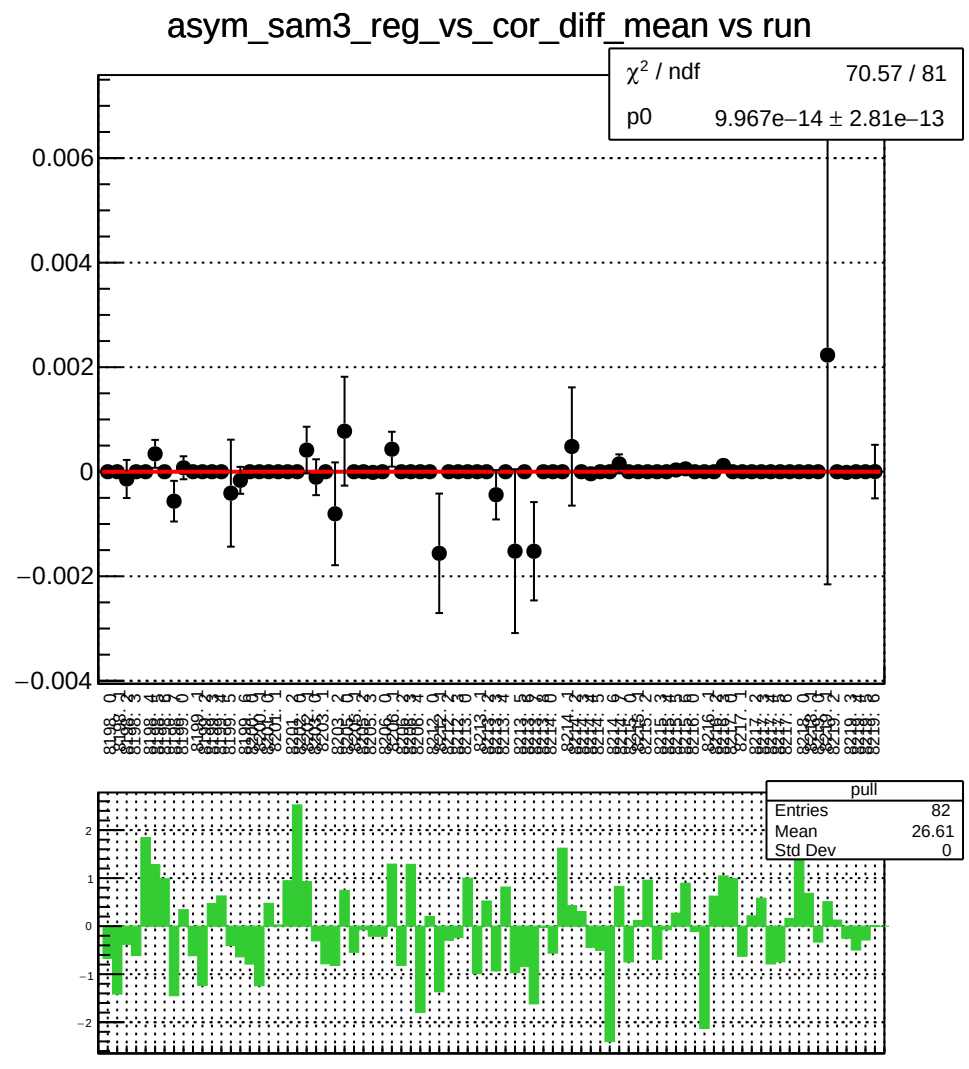
0
2
4
6
8

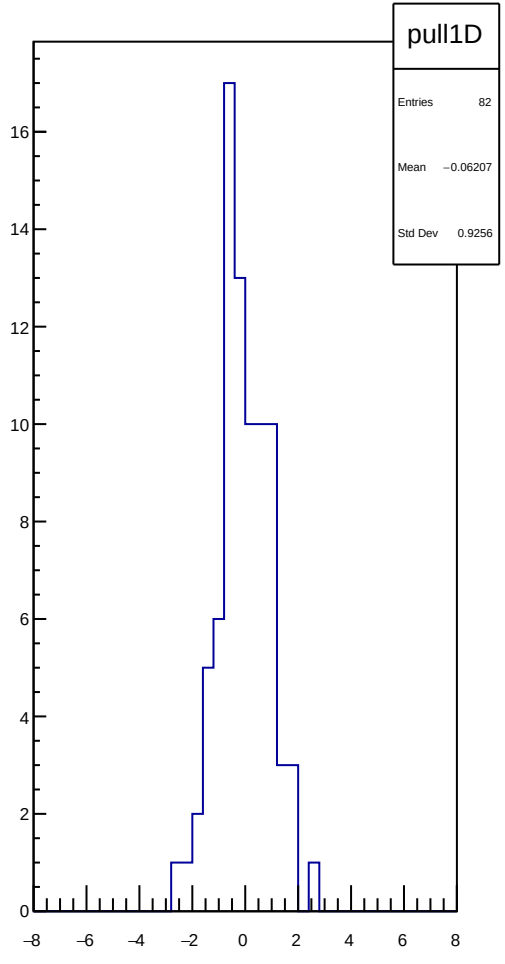

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 3849 / 81
p0 3122 ± 2.455
3500
3400
3300
3200
3100
3000
2900

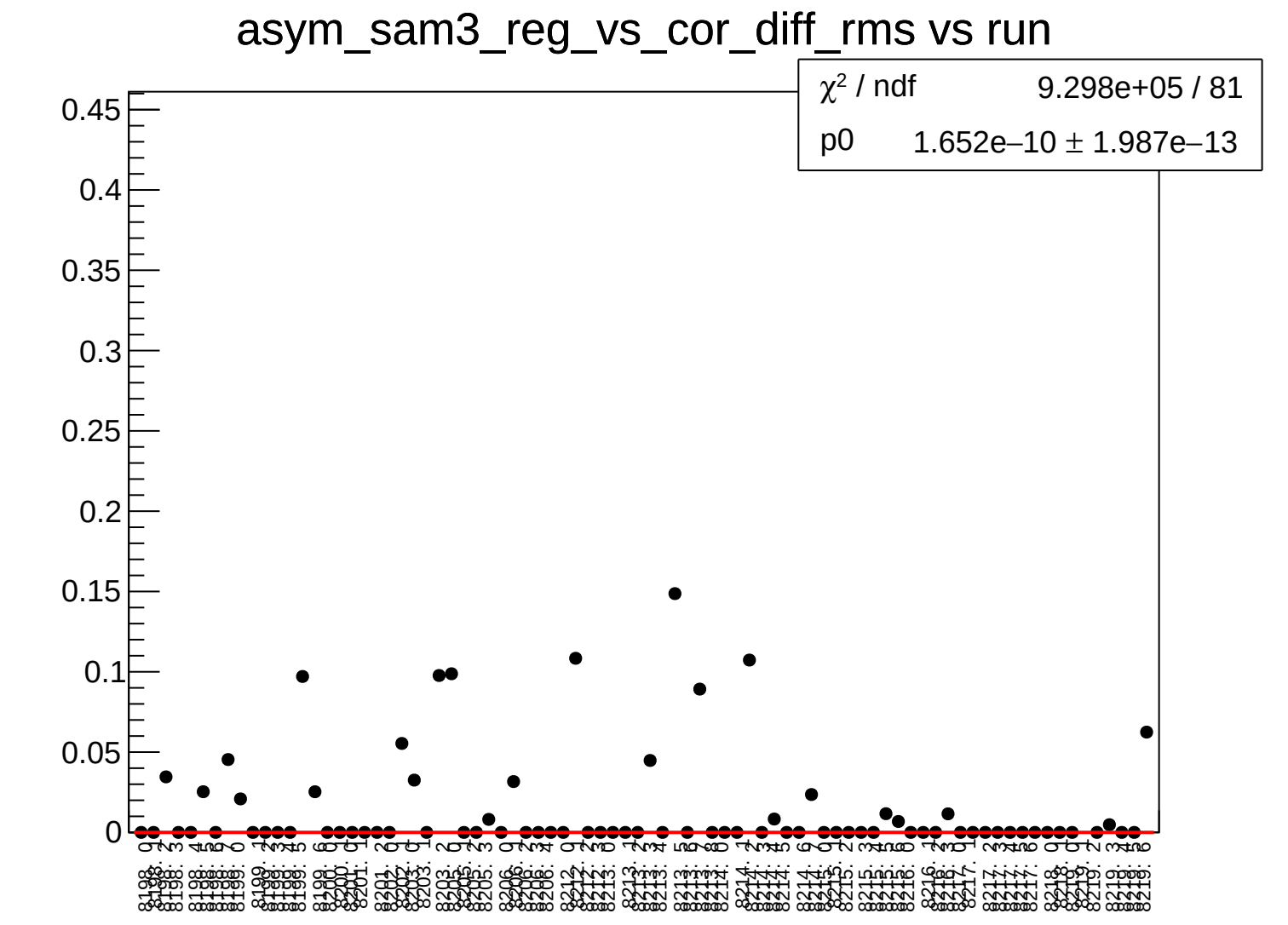

asym_sam3_mean vs run
×10^3
χ² / ndf 91.03 / 81
p0 3694 ± 3498
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −559.5
Std Dev 0
3
2
1
0
−1
−2
−3

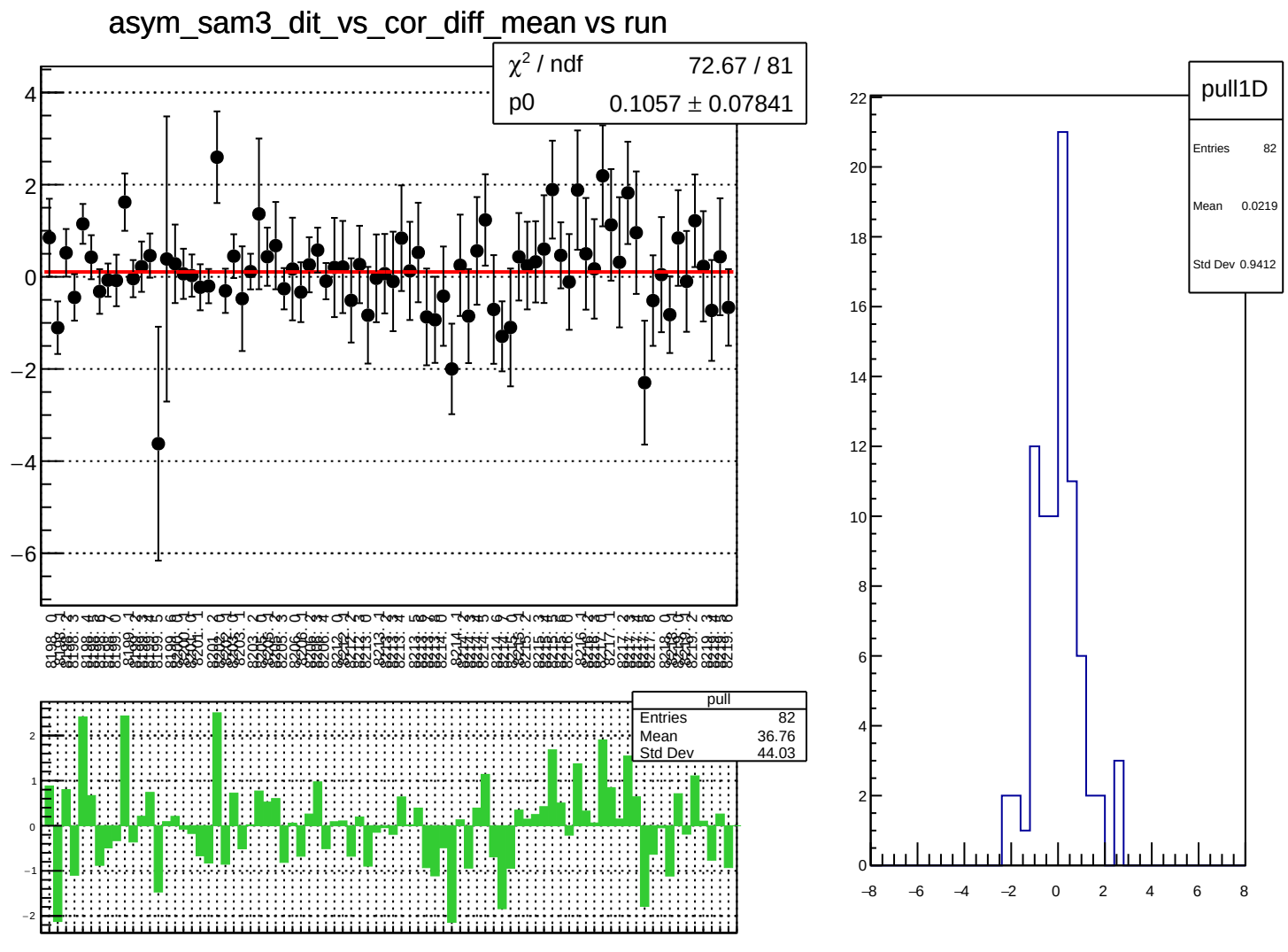

pull1D
Entries 82
Mean −0.004069
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

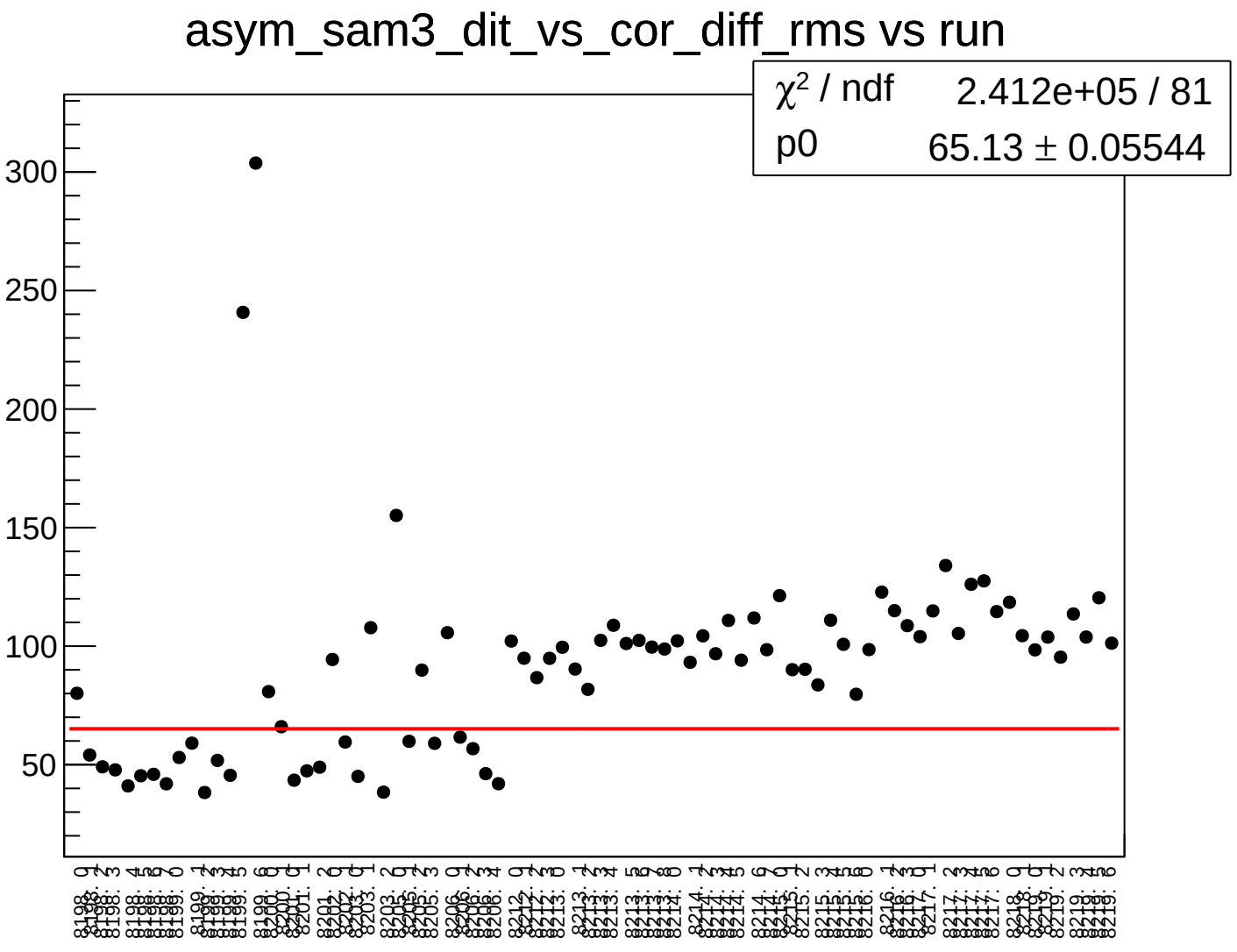

asym_sam3_rms vs run
χ² / ndf 3265 / 81
p0 3146 ± 2.474
3500
3400
3300
3200
3100
3000
2900

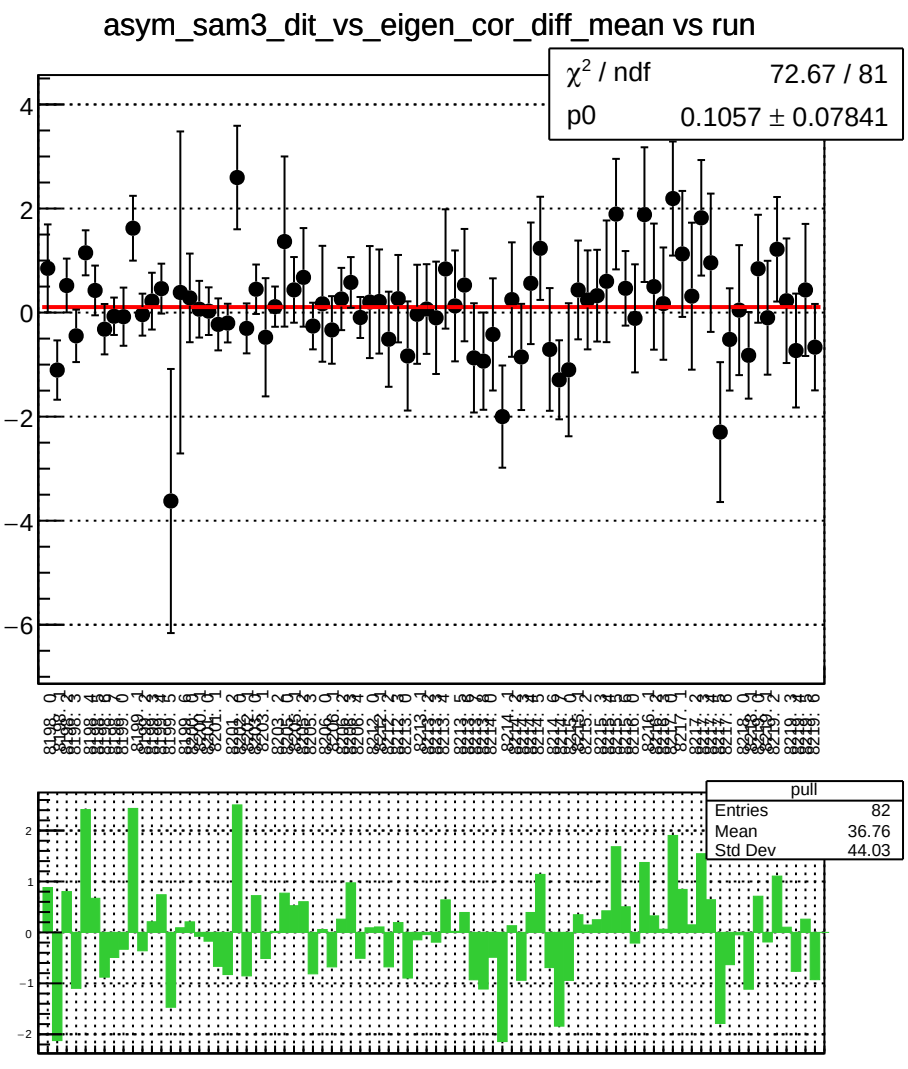

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 70.57 / 81
p0 9.967e−14 ± 2.81e−13
0.006
0.004
0.002
0
−0.002
−0.004
pull
Entries 82
Mean 26.61
Std Dev 0

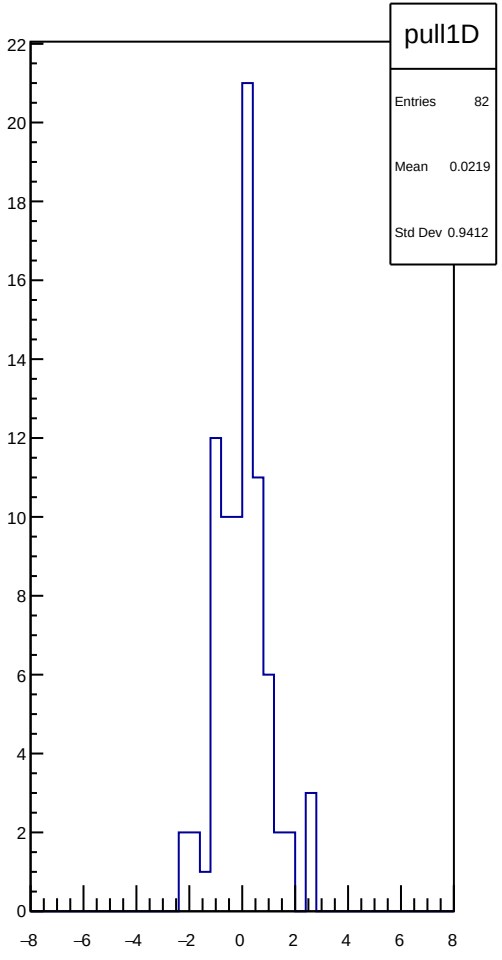

pull1D
Entries 82
Mean −0.06207
Std Dev 0.9256
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

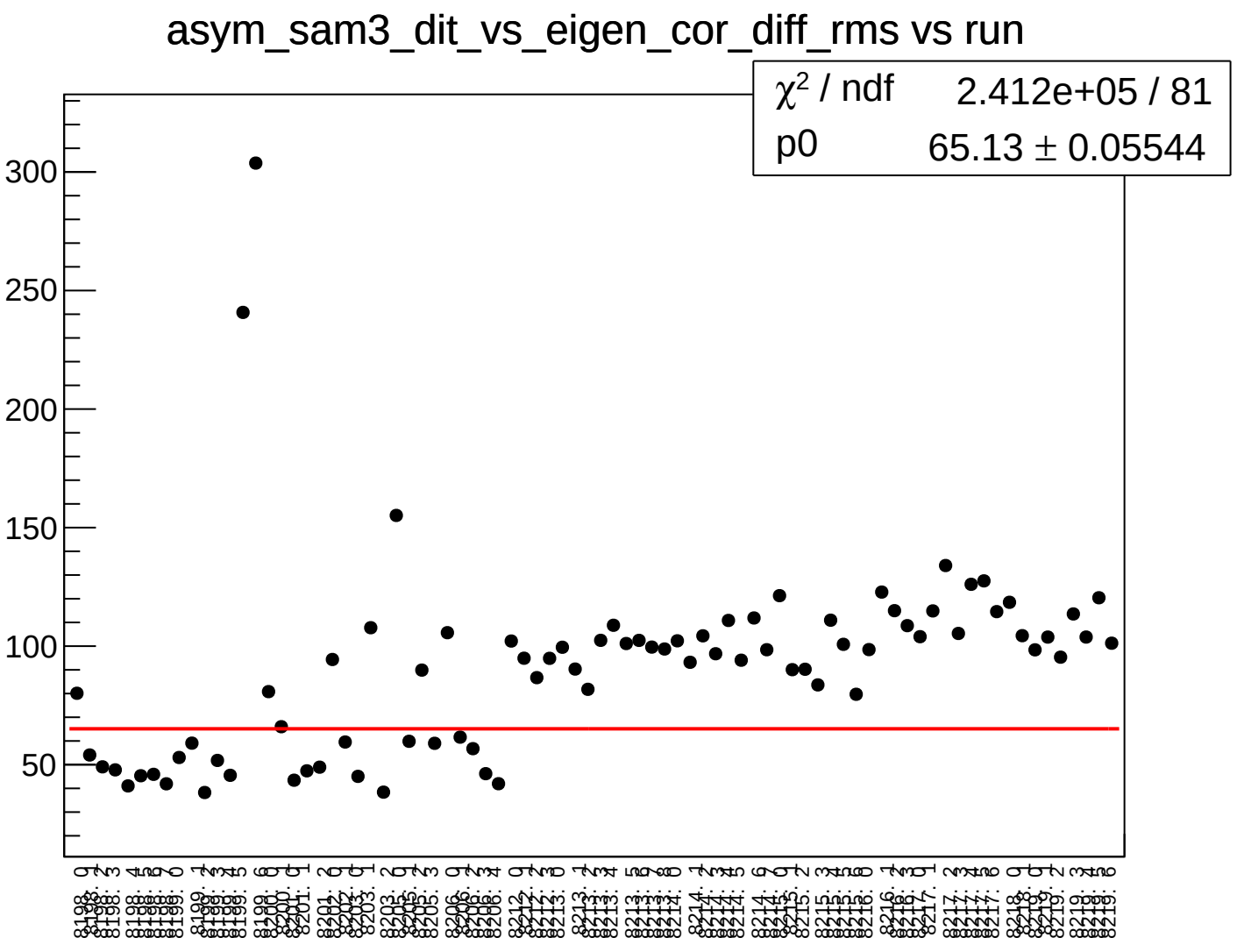

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 9.298e+05 / 81
p0 1.652e−10 ± 1.987e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

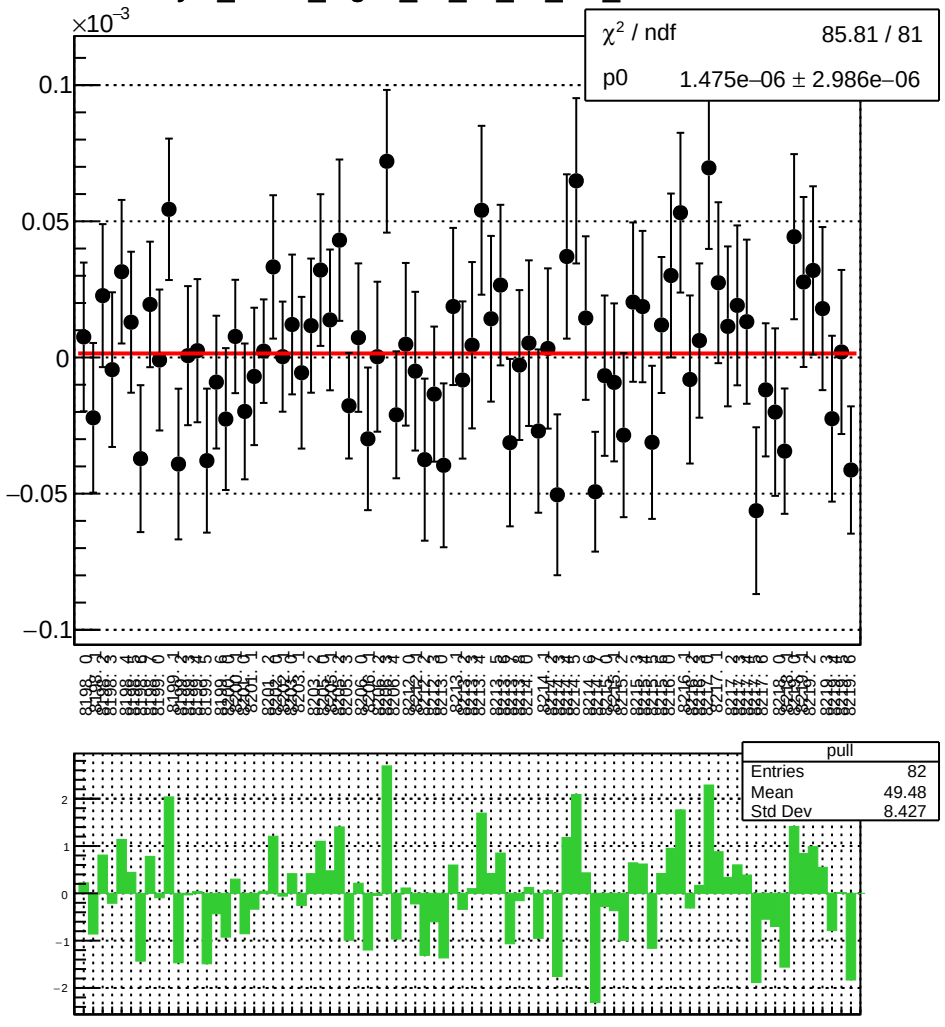

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 72.67 / 81
p0 0.1057 ± 0.07841
pull
Entries 82
Mean 36.76
Std Dev 44.03
pull1D
Entries 82
Mean 0.0219
Std Dev 0.9412

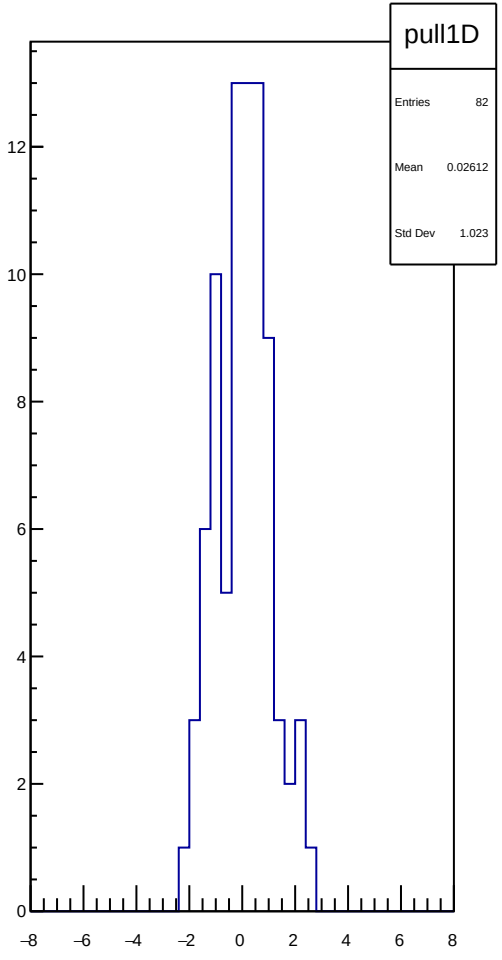

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 2.412e+05 / 81
p0 65.13 ± 0.05544
300
250
200
150
100
50

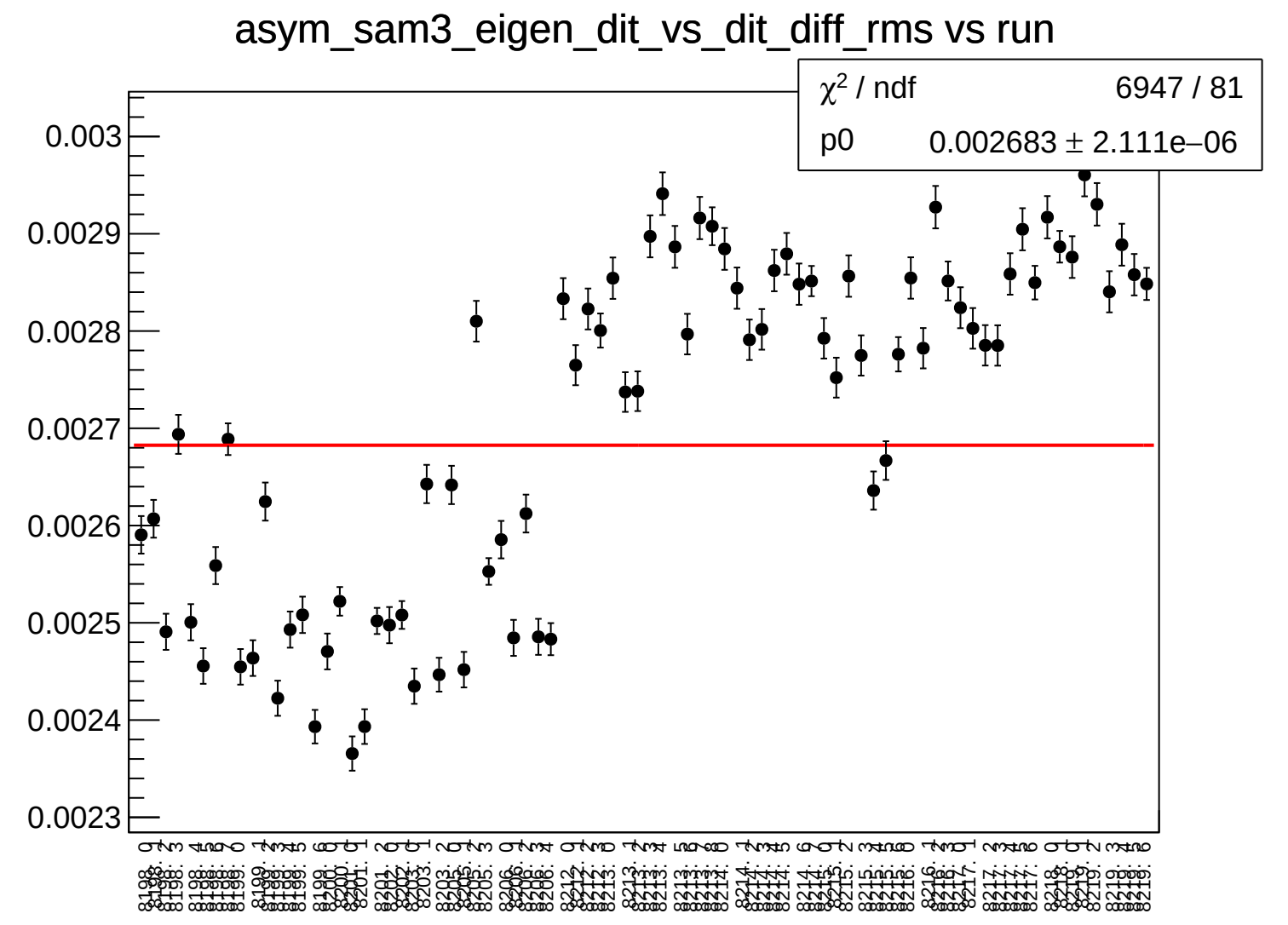

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.67 / 81
p0 0.1057 ± 0.07841
pull
Entries 82
Mean 36.76
Std Dev 44.03

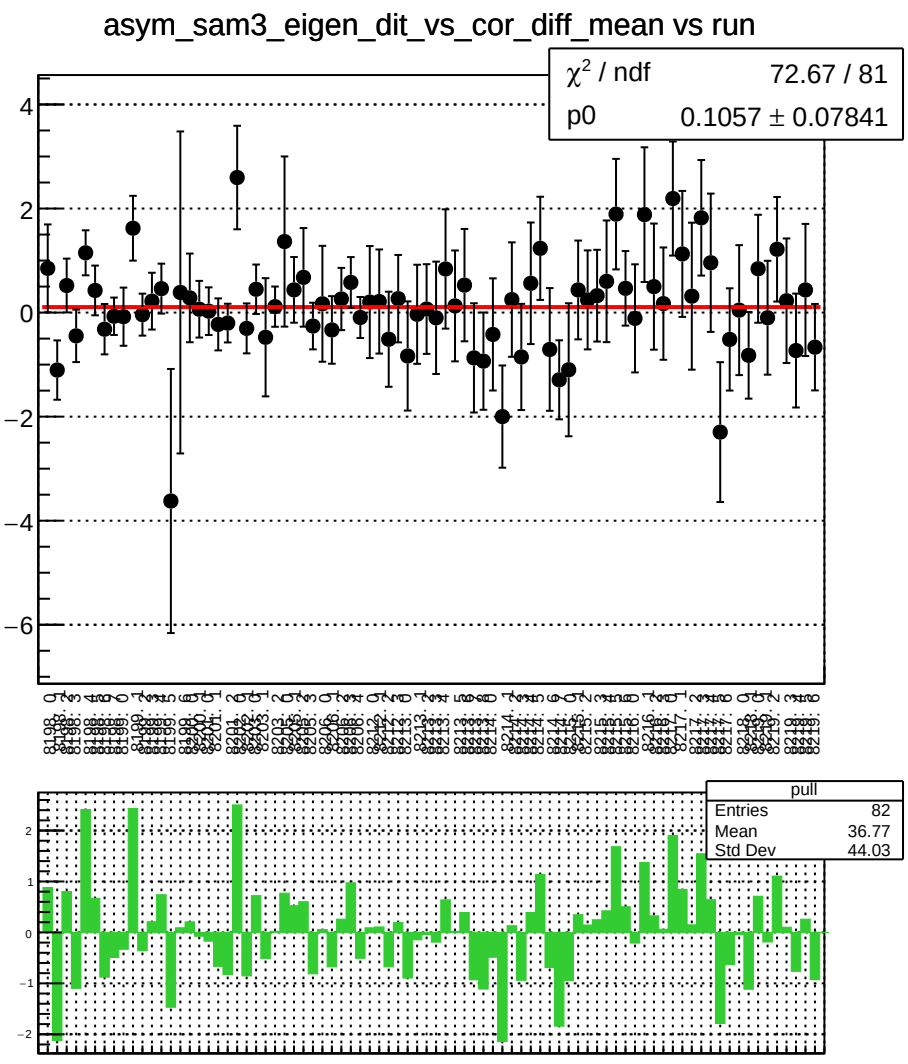

pull1D
Entries 82
Mean 0.0219
Std Dev 0.9412

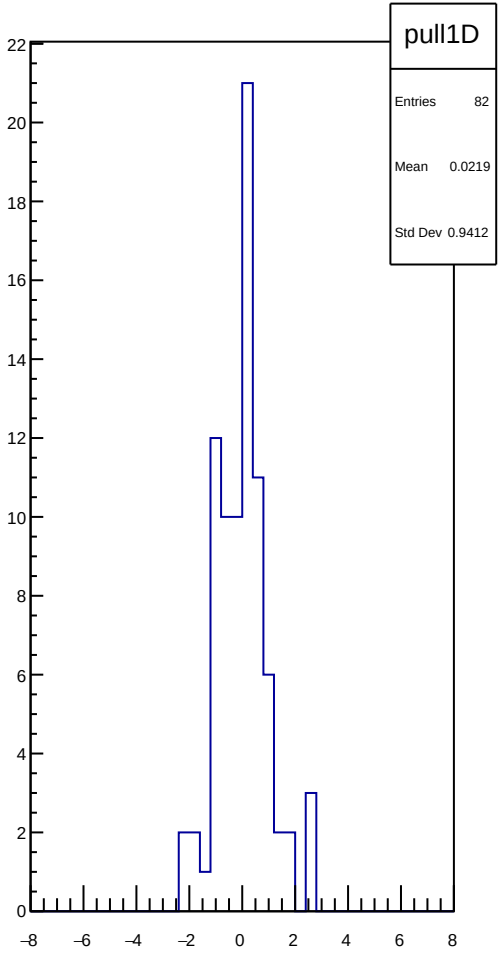

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.412e+05 / 81
p0 65.13 ± 0.05544
300
250
200
150
100
50

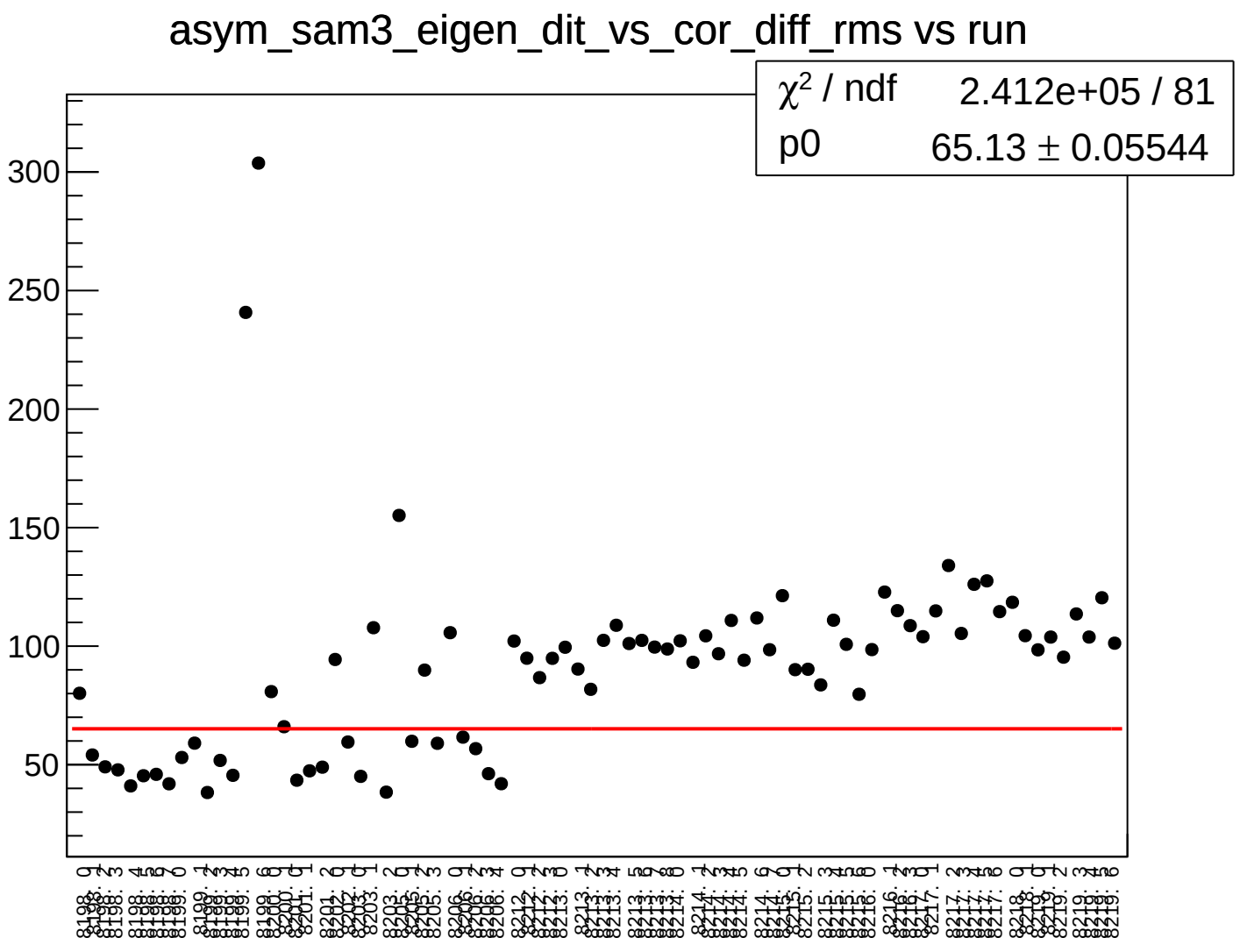

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.81 / 81
p0 1.475e−06 ± 2.986e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean 49.48
Std Dev 8.427
2
1
0
−1
−2

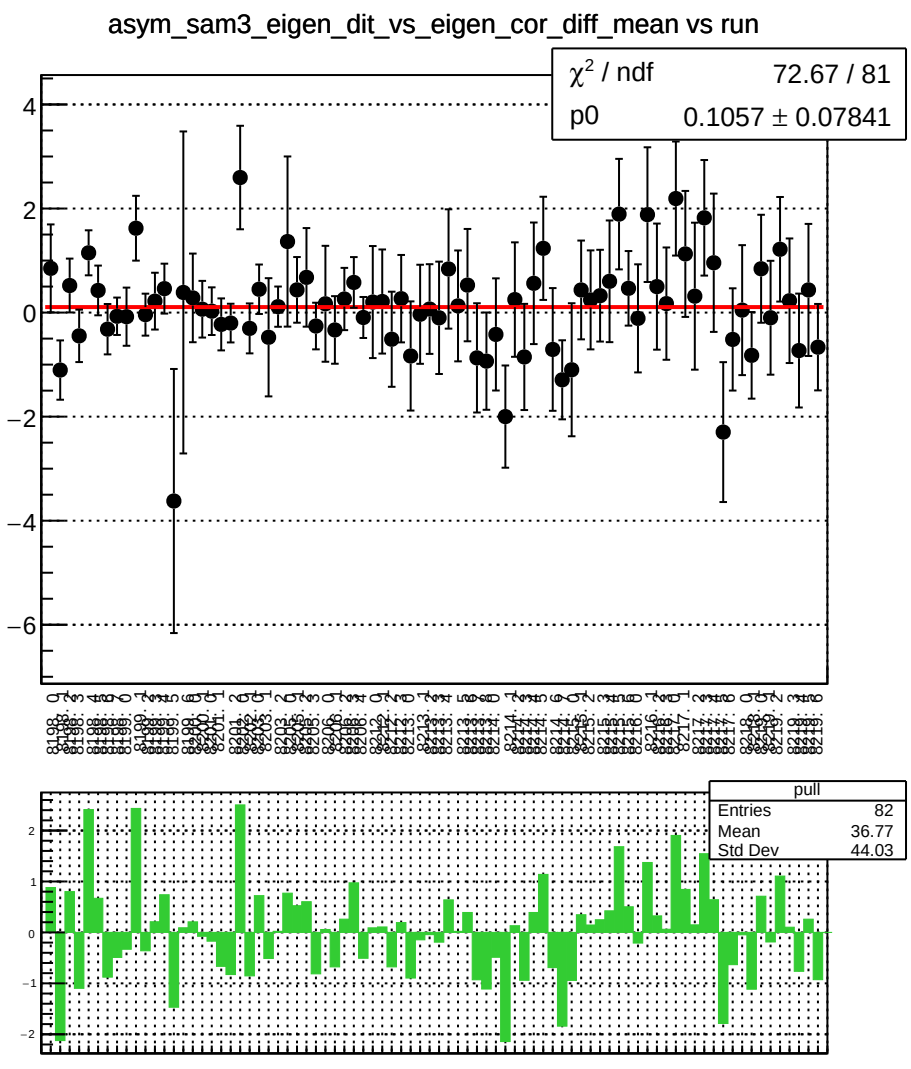

pull1D
Entries 82
Mean 0.02612
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

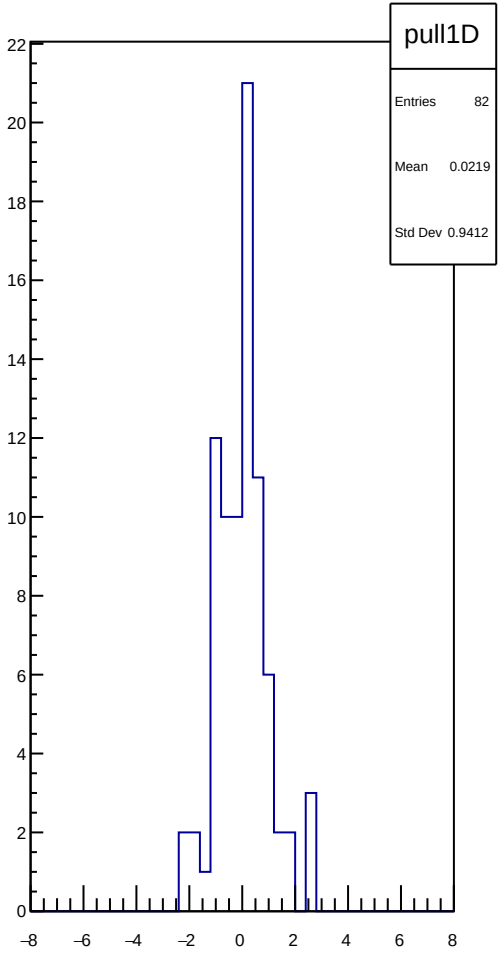

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6947 / 81
p0 0.002683 ± 2.111e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023

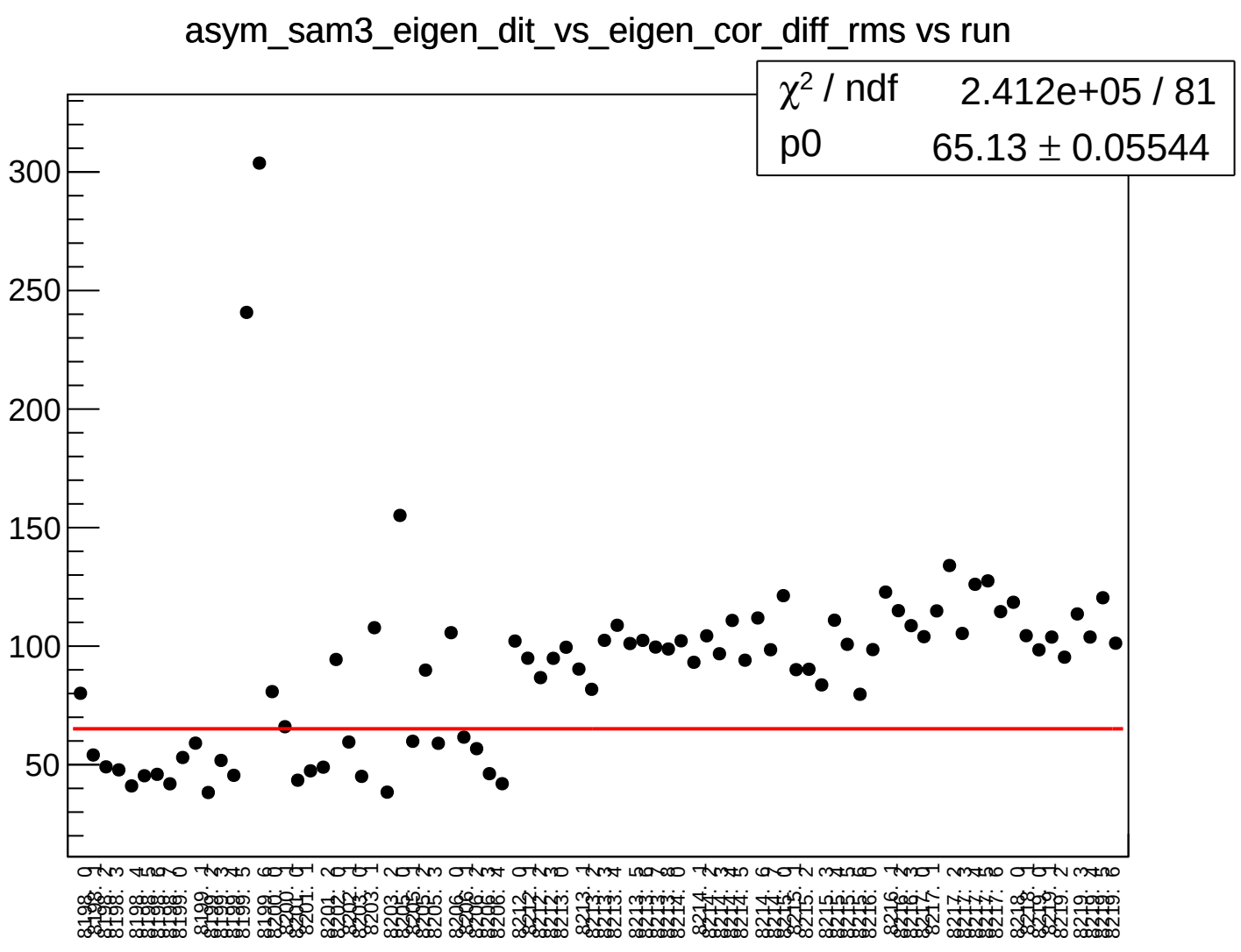

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.67 / 81
p0 0.1057 ± 0.07841
pull
Entries 82
Mean 36.77
Std Dev 44.03

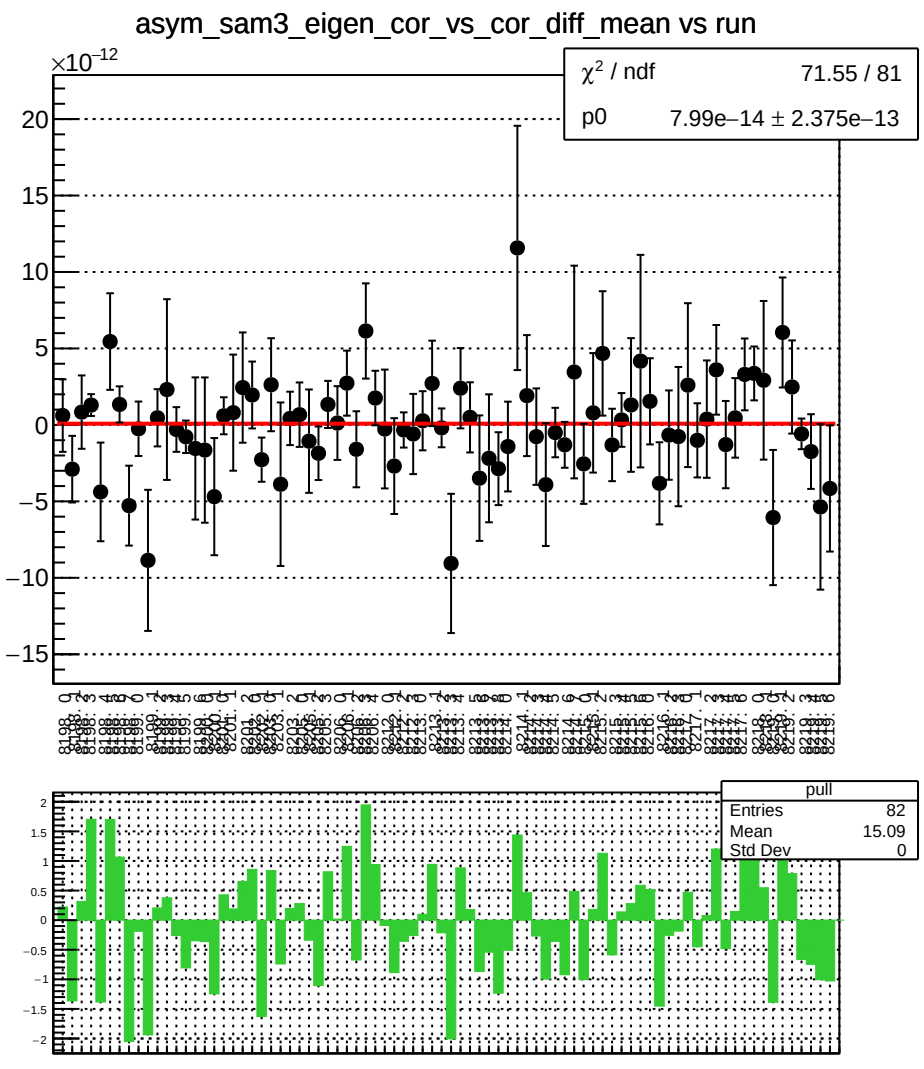

pull1D
Entries 82
Mean 0.0219
Std Dev 0.9412

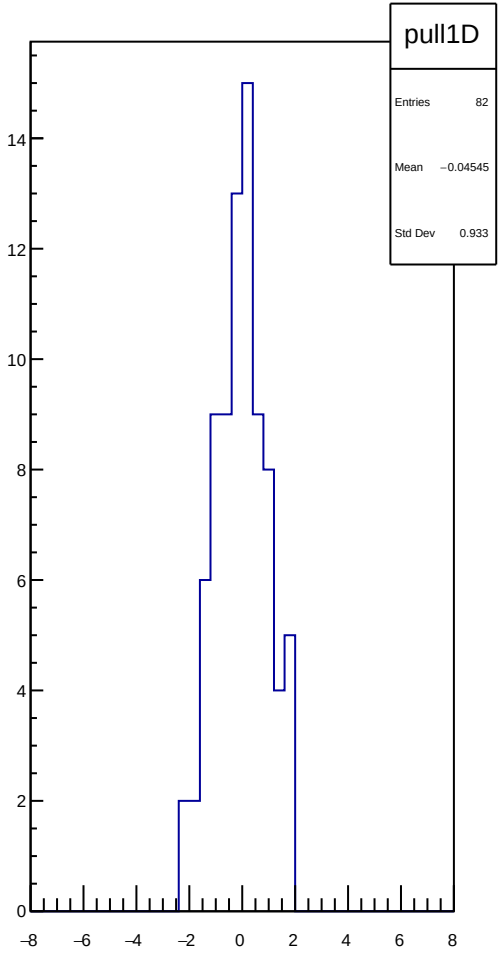

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.412e+05 / 81
p0 65.13 ± 0.05544
300
250
200
150
100
50

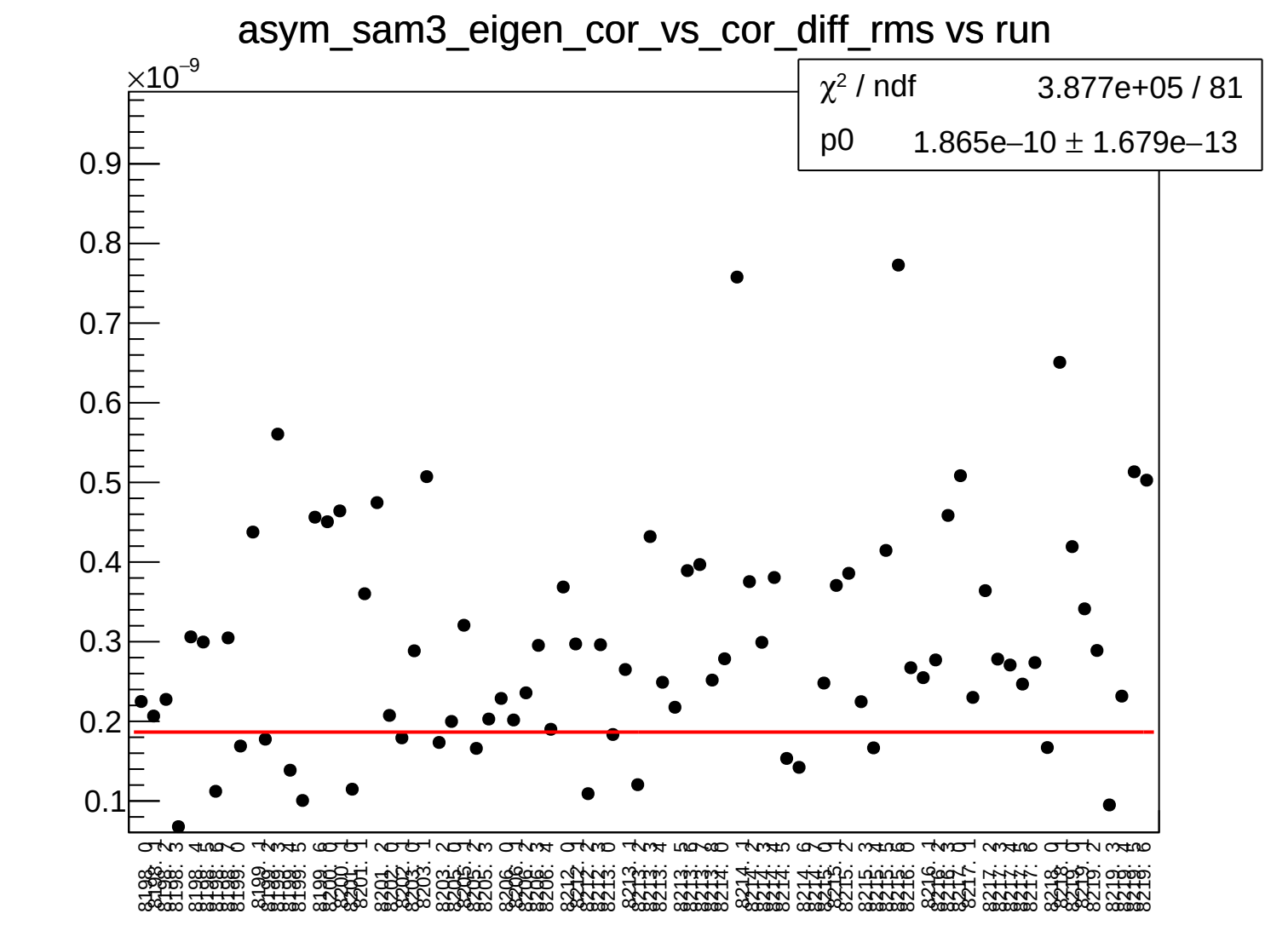

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.67 / 81
p0 0.1057 ± 0.07841
pull
Entries 82
Mean 36.77
Std Dev 44.03

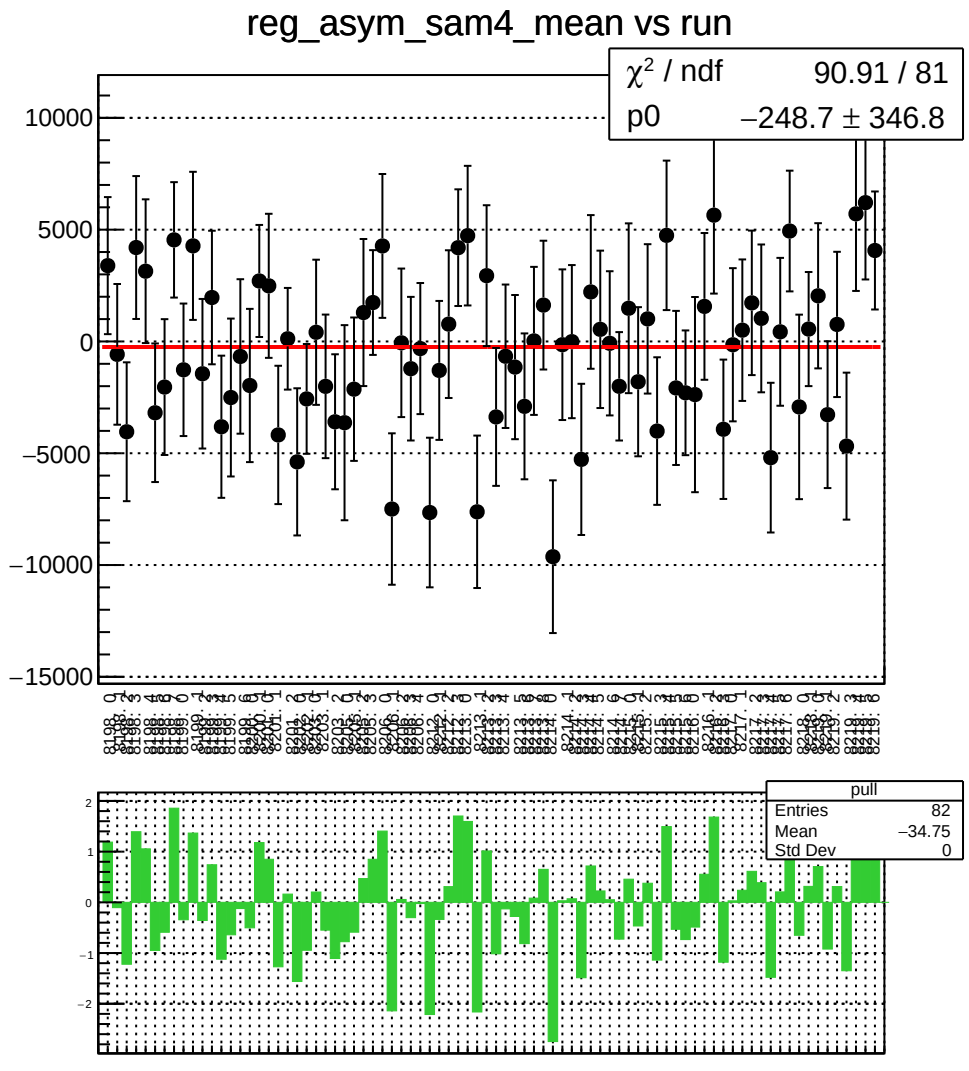

pull1D
Entries 82
Mean 0.0219
Std Dev 0.9412

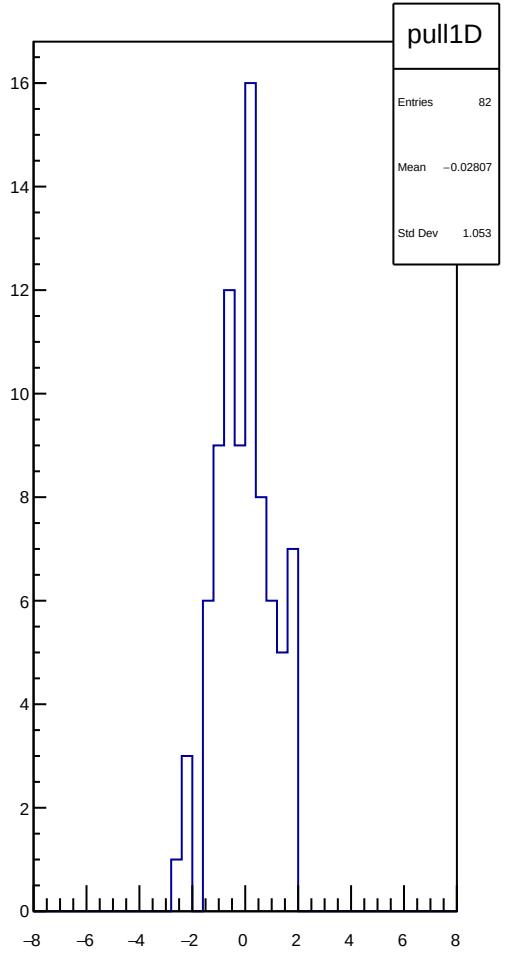

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.412e+05 / 81
p0 65.13 ± 0.05544
300
250
200
150
100
50

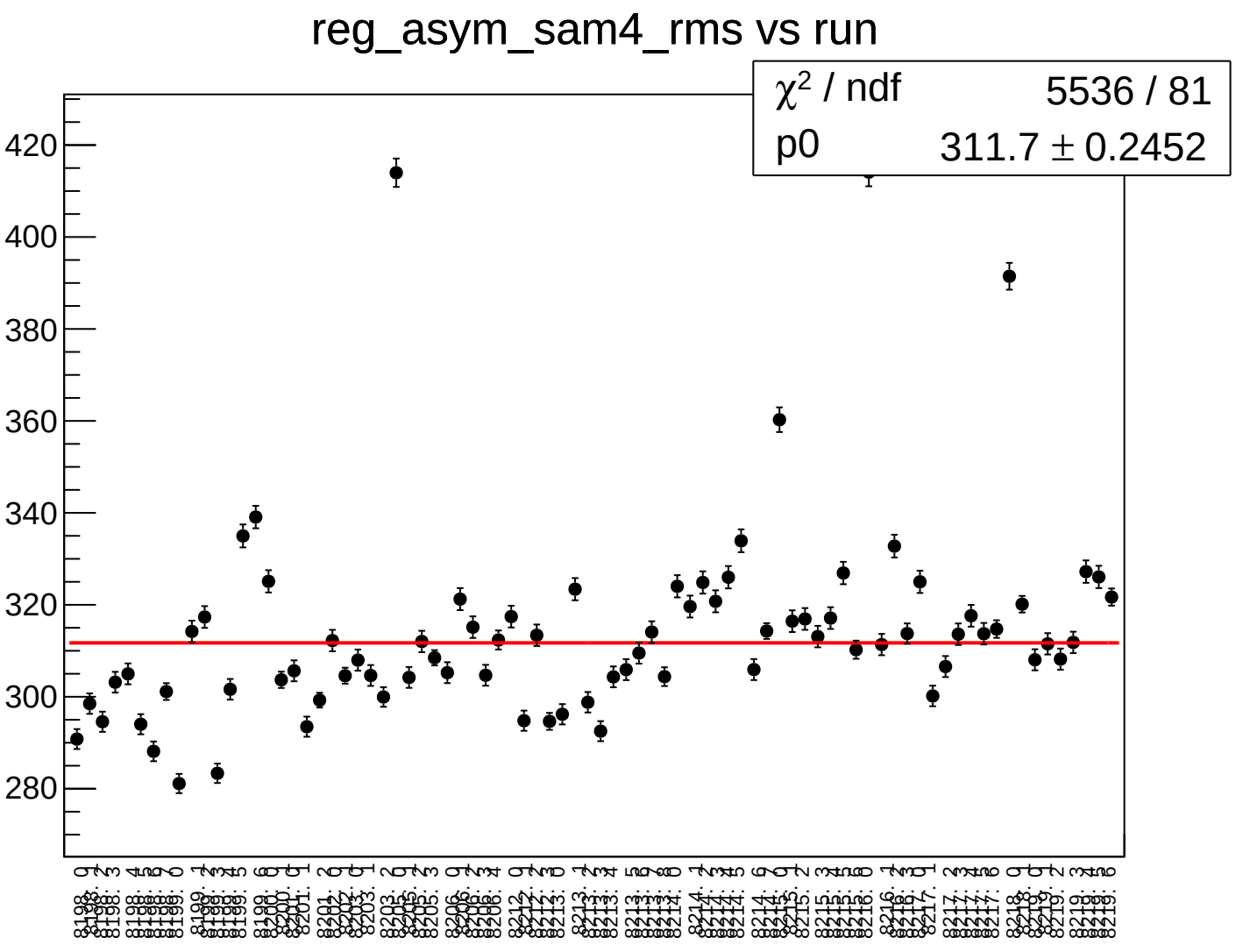

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.55 / 81
p0 7.99e−14 ± 2.375e−13
pull
Entries 82
Mean 15.09
Std Dev 0

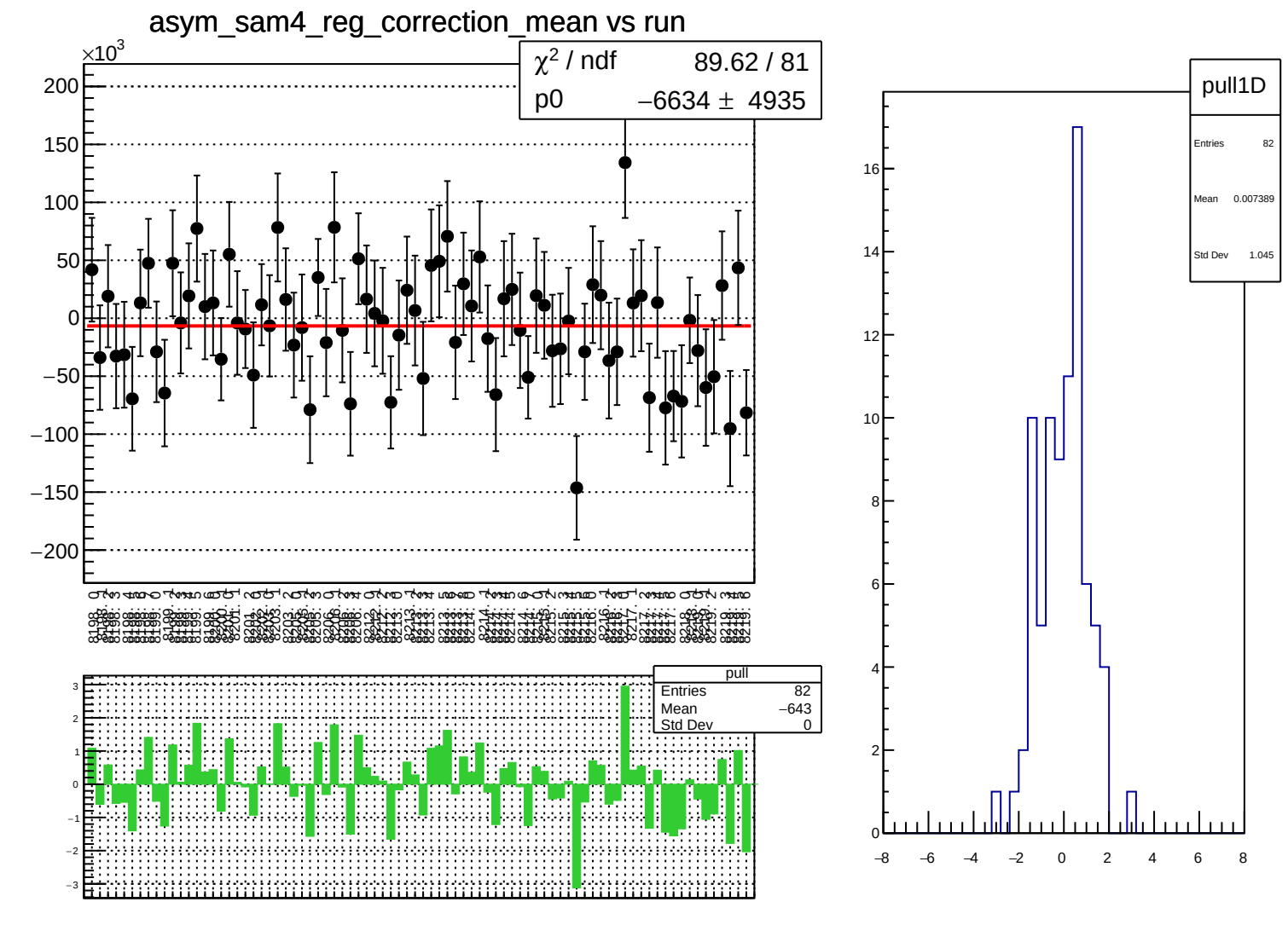

pull1D
Entries 82
Mean −0.04545
Std Dev 0.933

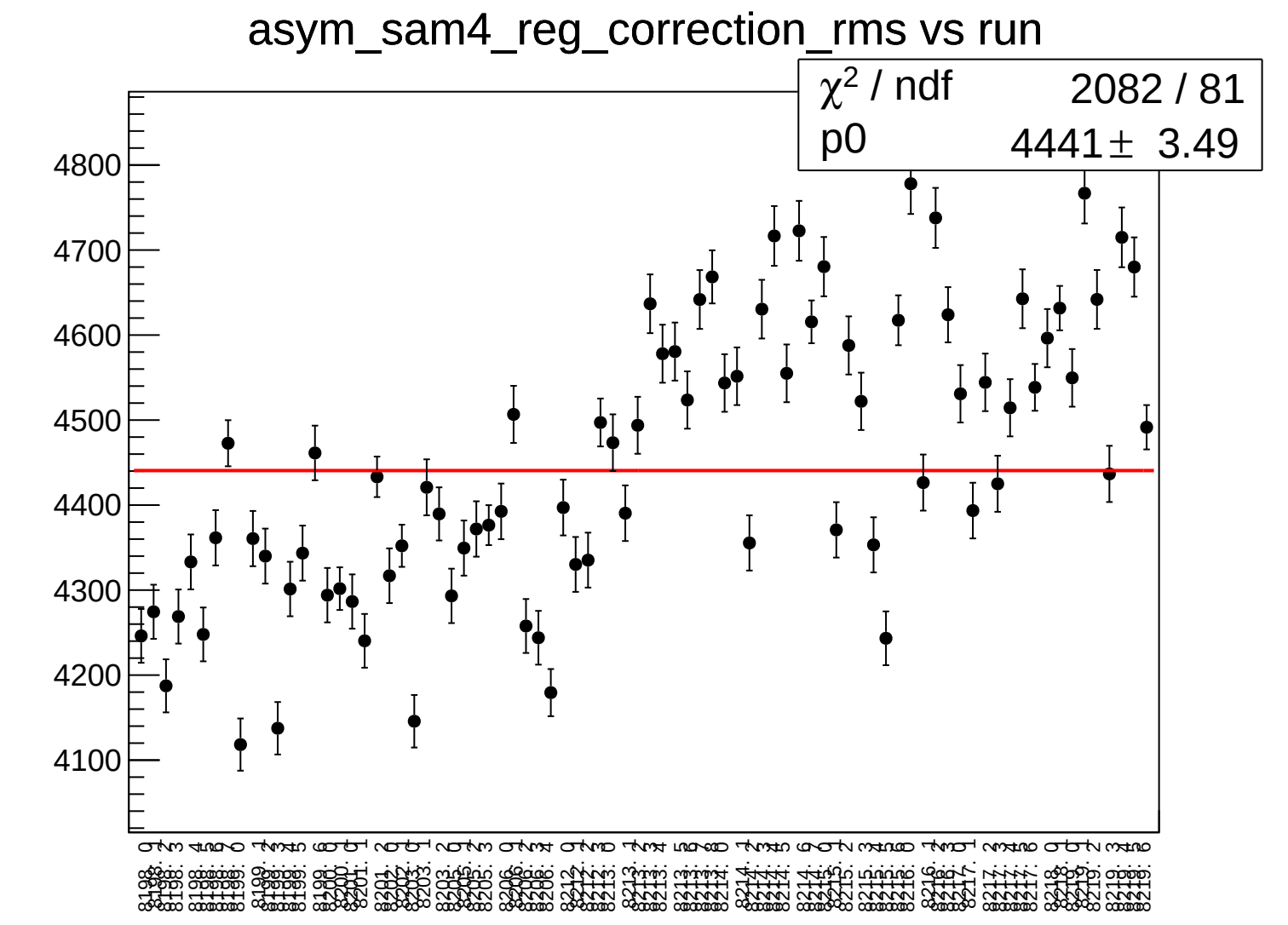

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.877e+05 / 81
p0 1.865e−10 ± 1.679e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

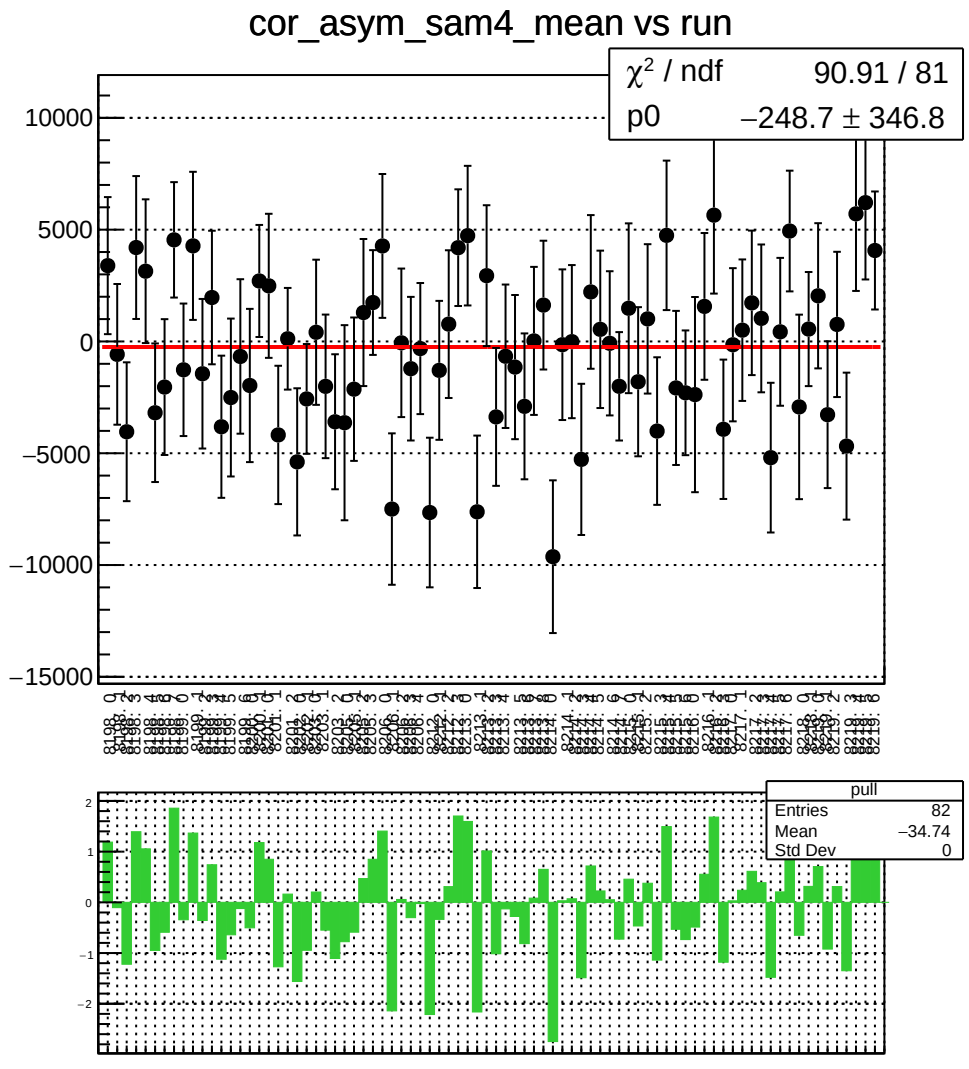

reg_asym_sam4_mean vs run
χ² / ndf 90.91 / 81
p0 −248.7 ± 346.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −34.75
Std Dev 0
2
1
0
−1
−2

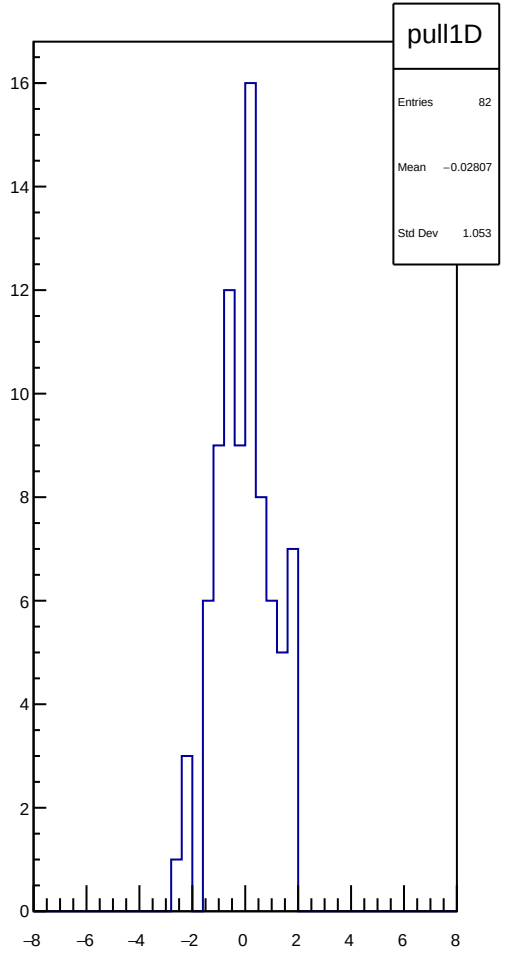

pull1D
Entries 82
Mean −0.02807
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

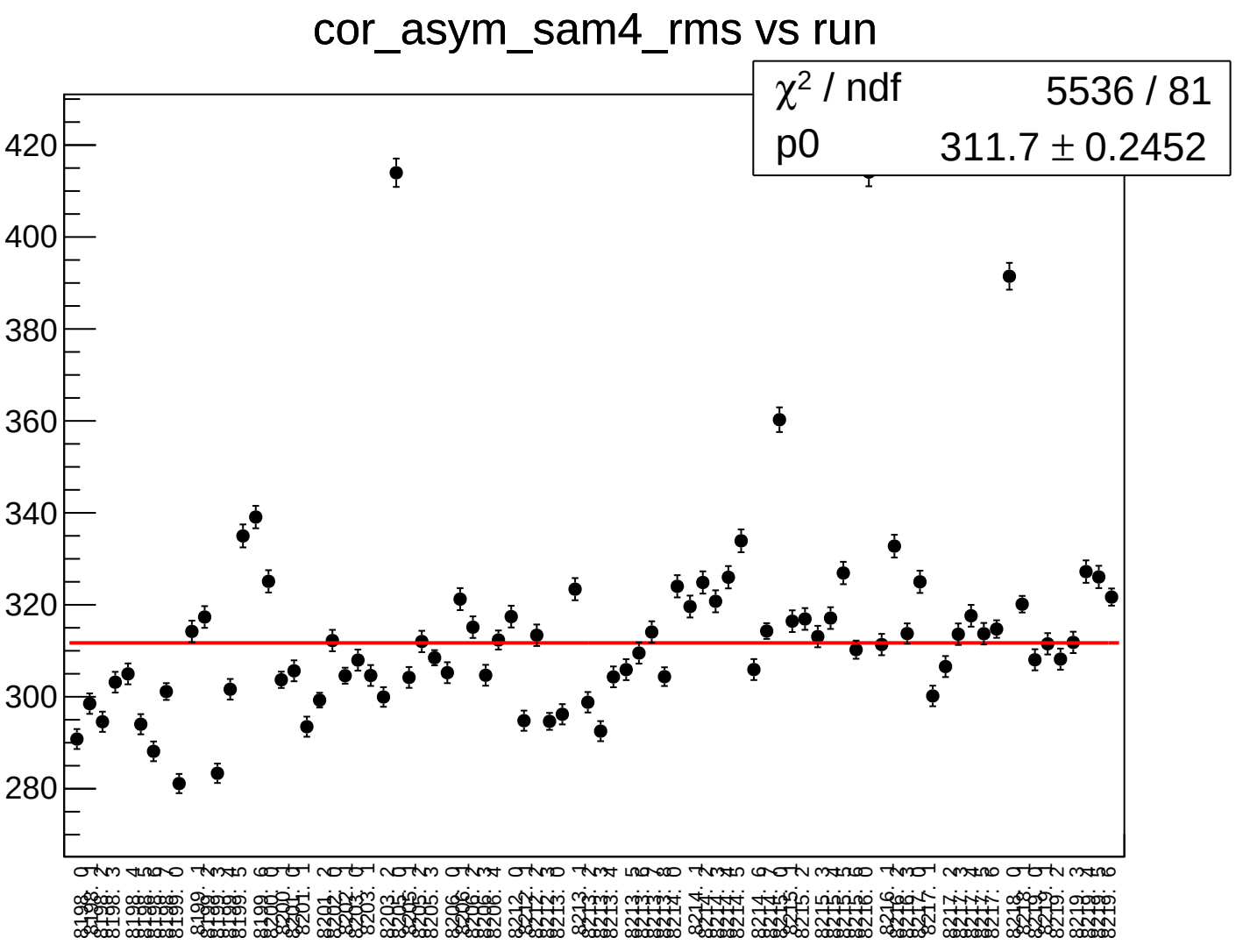

reg_asym_sam4_rms vs run
χ² / ndf 5536 / 81
p0 311.7 ± 0.2452
420
400
380
360
340
320
300
280

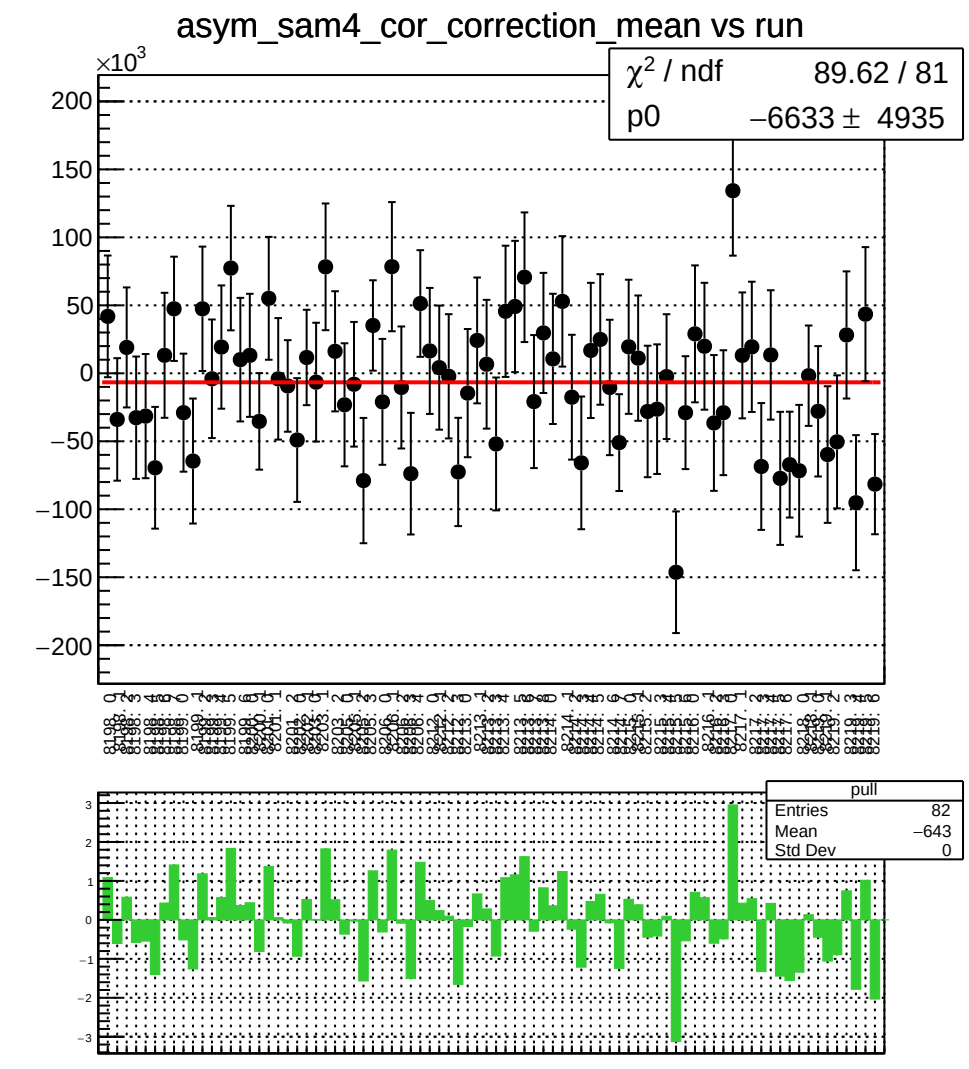

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 89.62 / 81
p0 −6634 ± 4935
pull
Entries 82
Mean −643
Std Dev 0
pull1D
Entries 82
Mean 0.007389
Std Dev 1.045

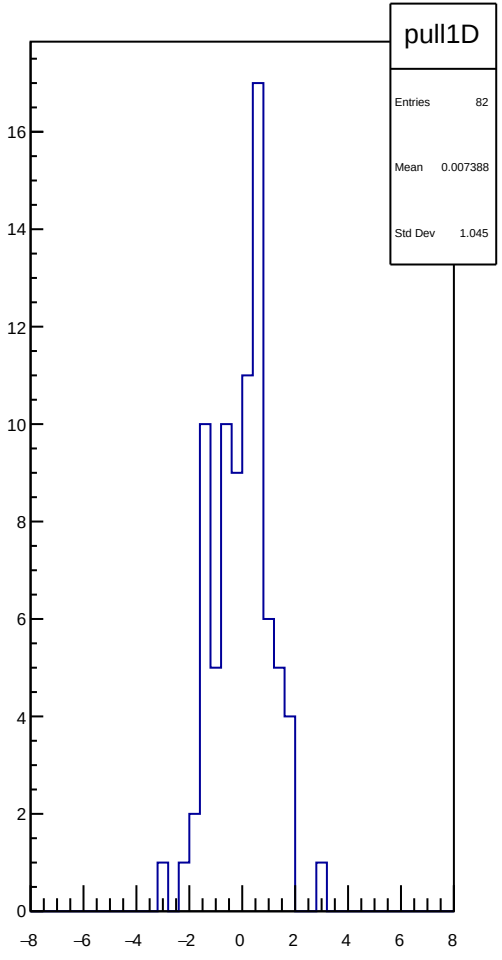

asym_sam4_reg_correction_rms vs run
χ² / ndf 2082 / 81
p0 4441 ± 3.49
4800
4700
4600
4500
4400
4300
4200
4100

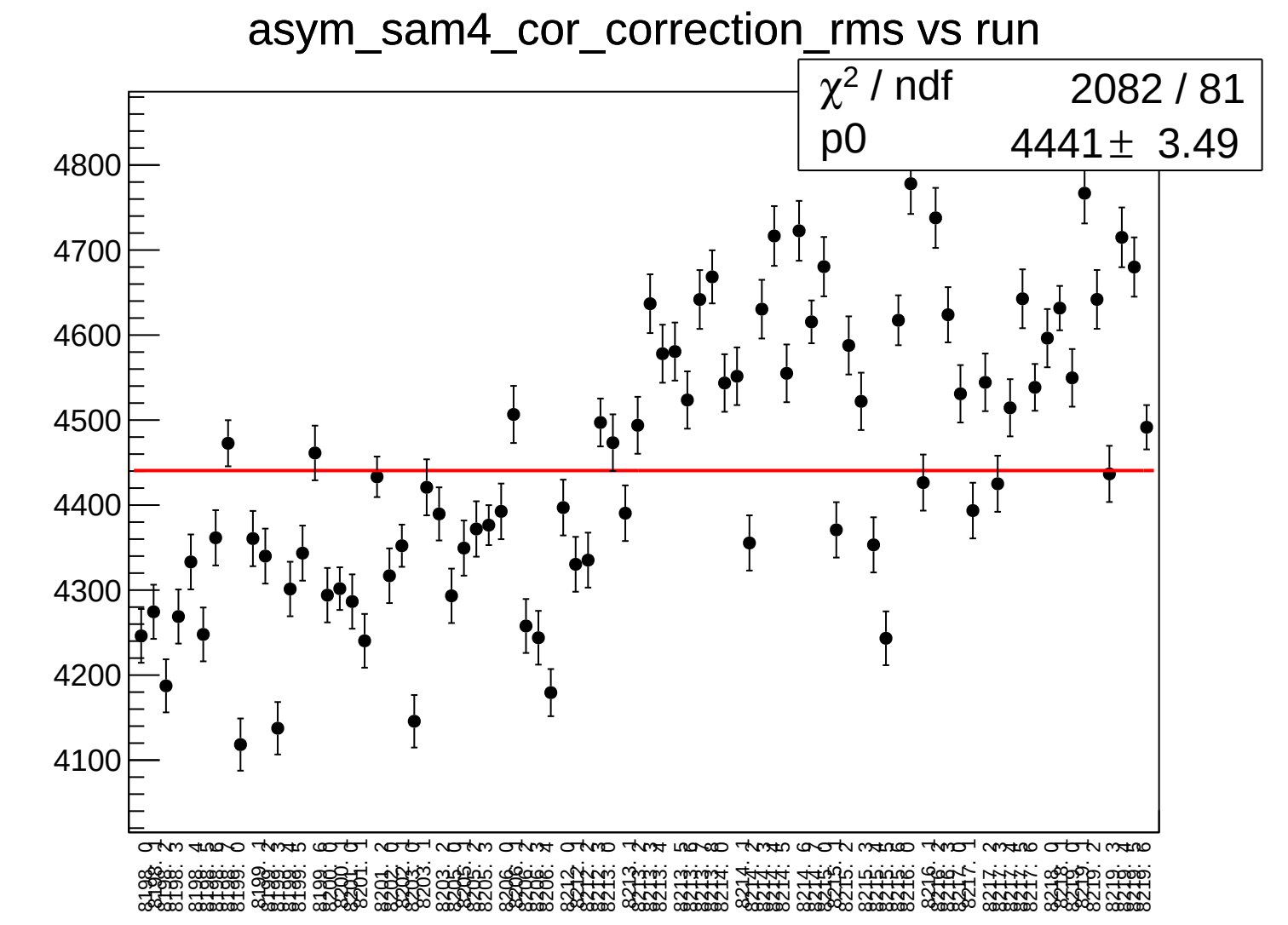

cor_asym_sam4_mean vs run
χ² / ndf 90.91 / 81
p0 −248.7 ± 346.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −34.74
Std Dev 0
2
1
0
−1
−2

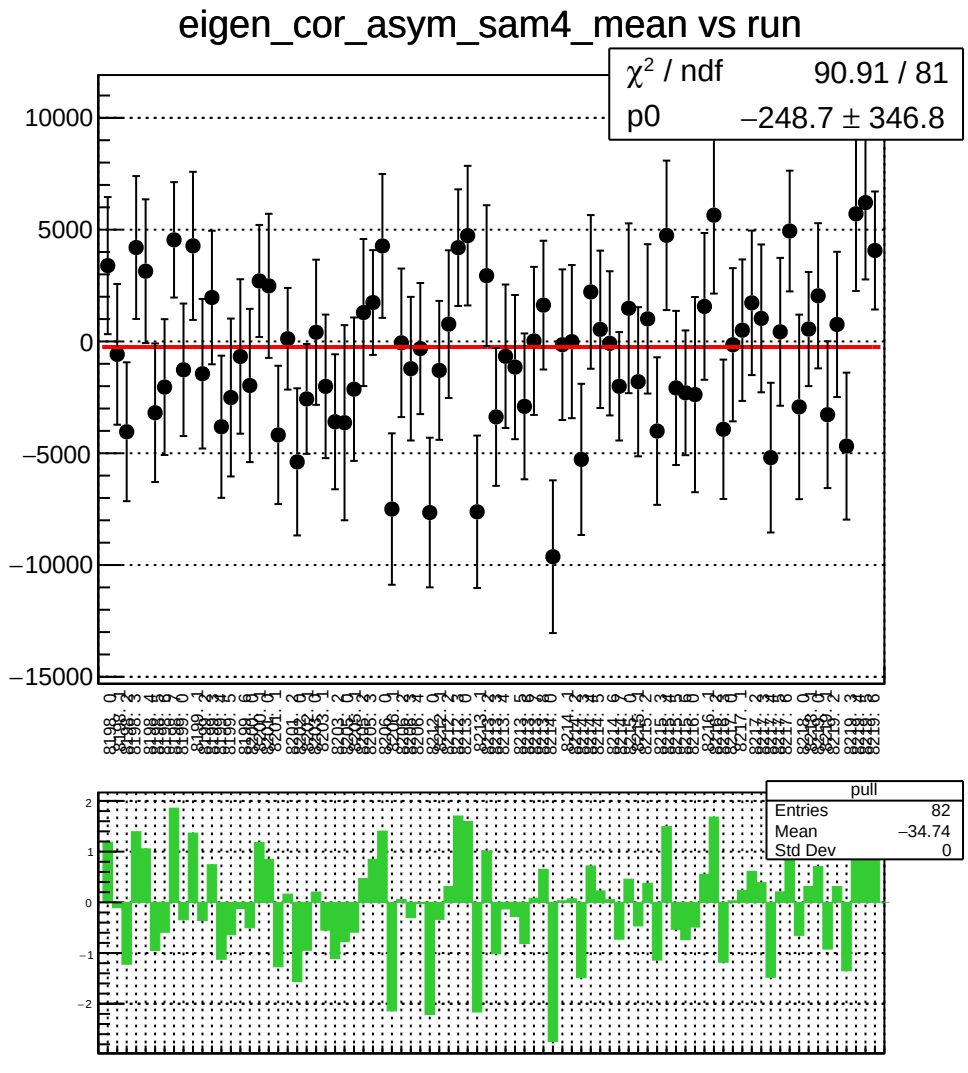

pull1D
Entries 82
Mean −0.02807
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

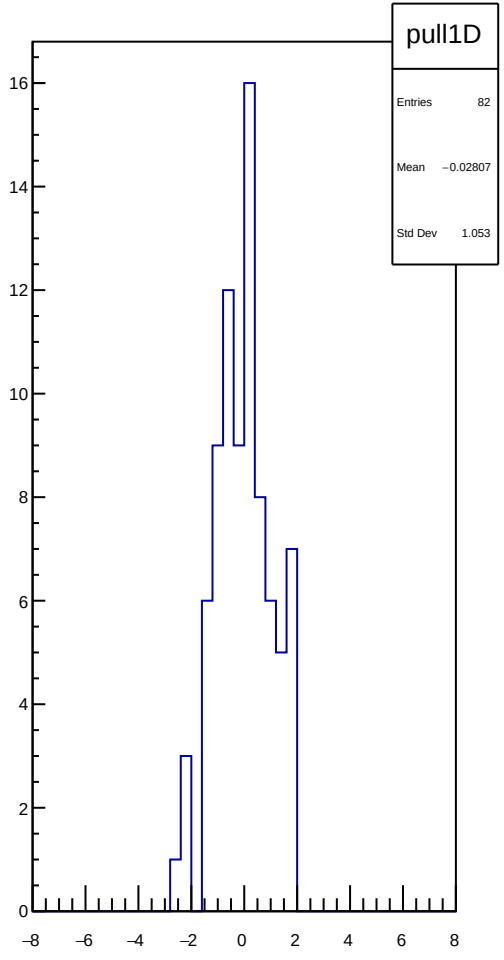

cor_asym_sam4_rms vs run
χ² / ndf 5536 / 81
p0 311.7 ± 0.2452
420
400
380
360
340
320
300
280

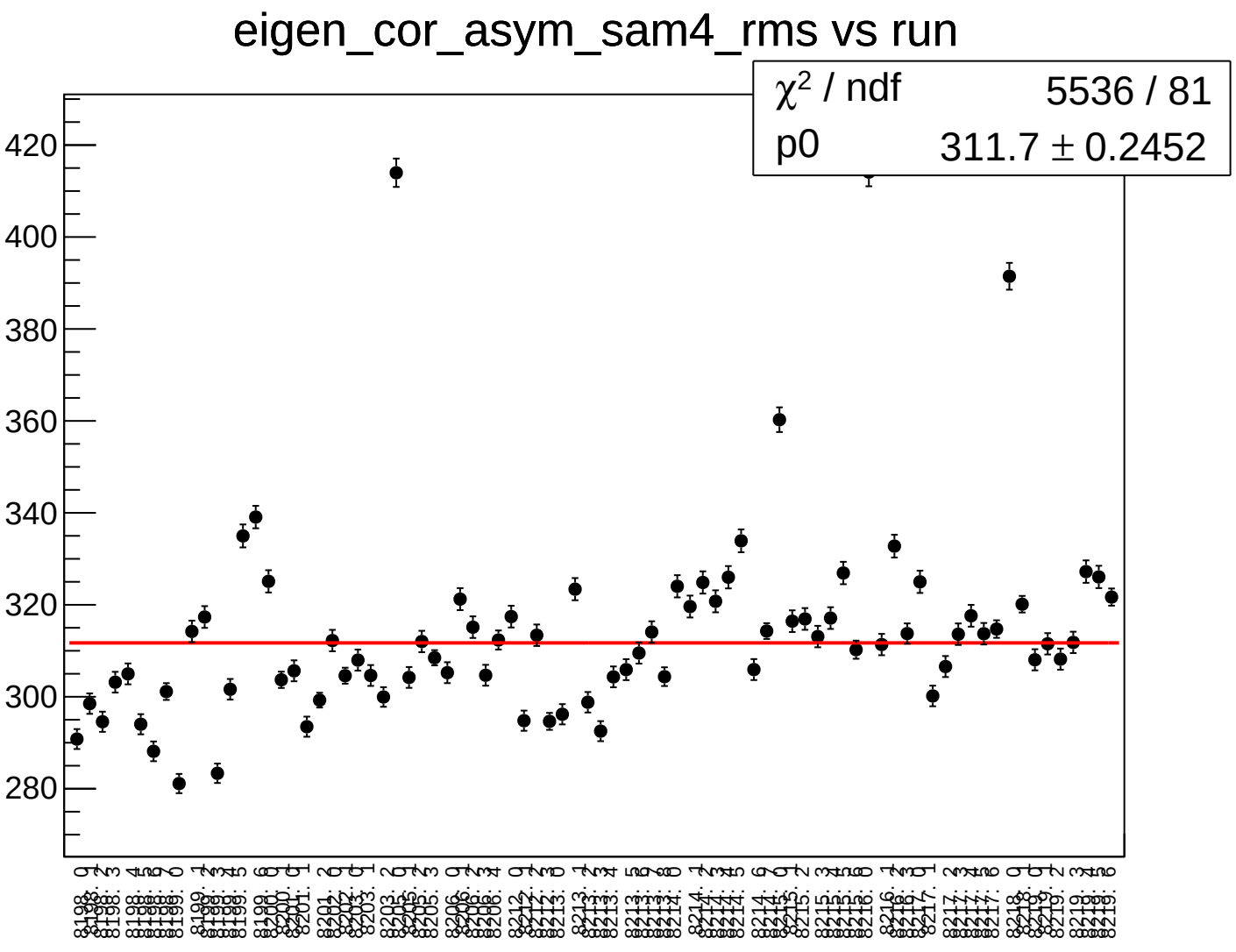

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 89.62 / 81
p0 −6633 ± 4935
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −643
Std Dev 0
3
2
1
0
−1
−2
−3

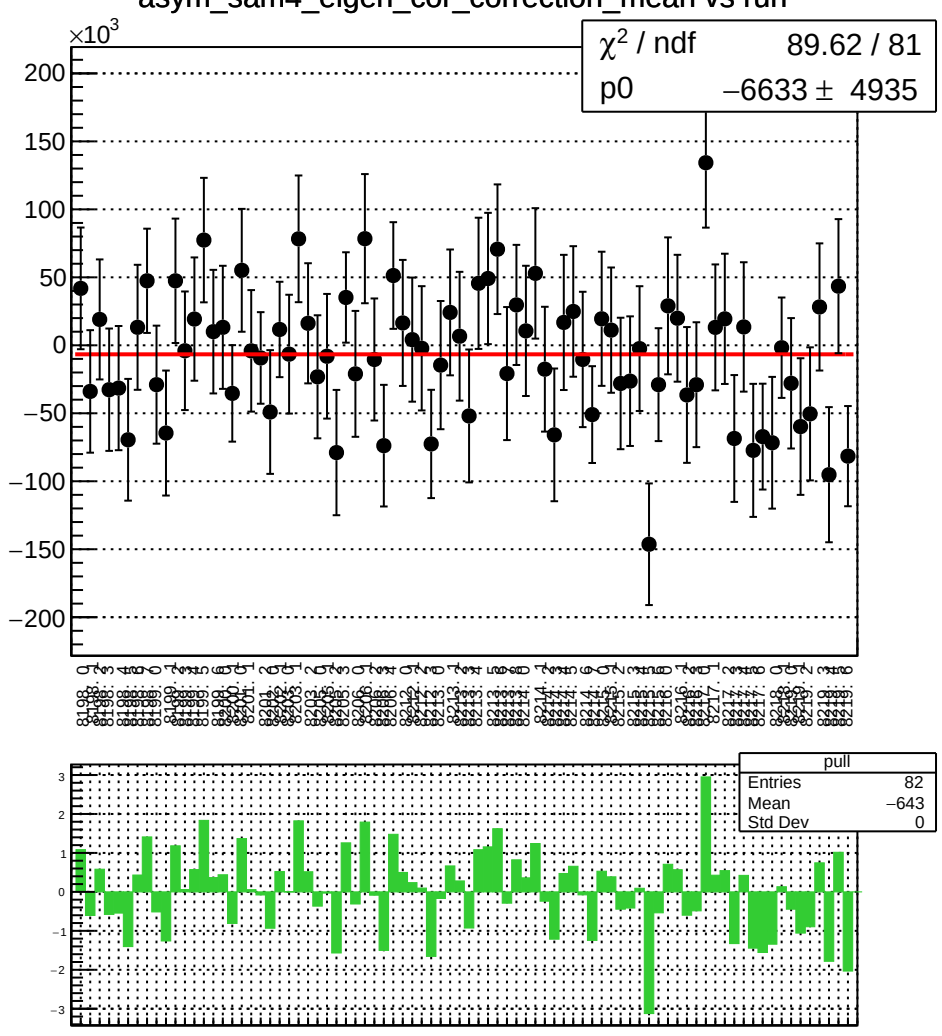

pull1D
Entries 82
Mean 0.007388
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

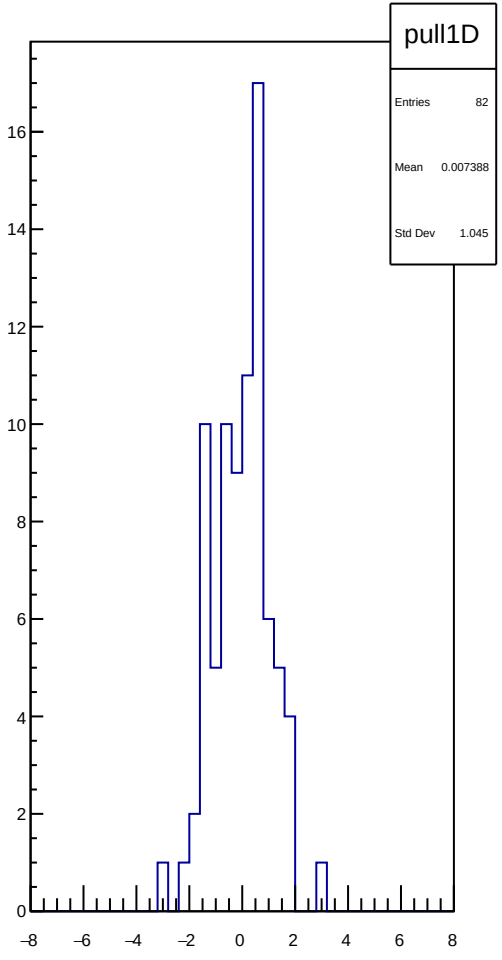

asym_sam4_cor_correction_rms vs run
χ² / ndf 2082 / 81
p0 4441 ± 3.49
4800
4700
4600
4500
4400
4300
4200
4100

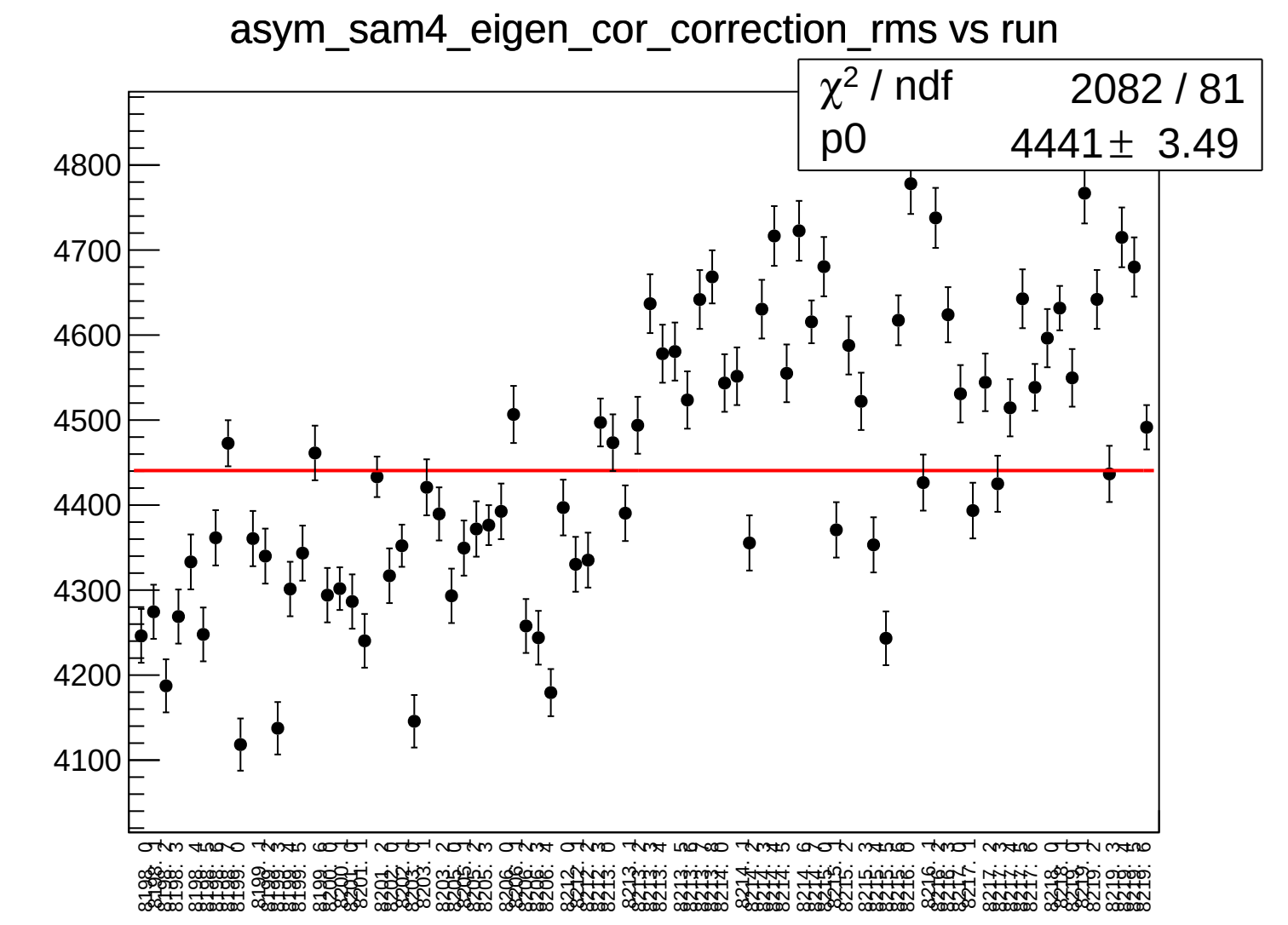

eigen_cor_asym_sam4_mean vs run
χ² / ndf 90.91 / 81
p0 −248.7 ± 346.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −34.74
Std Dev 0
2
1
0
−1
−2

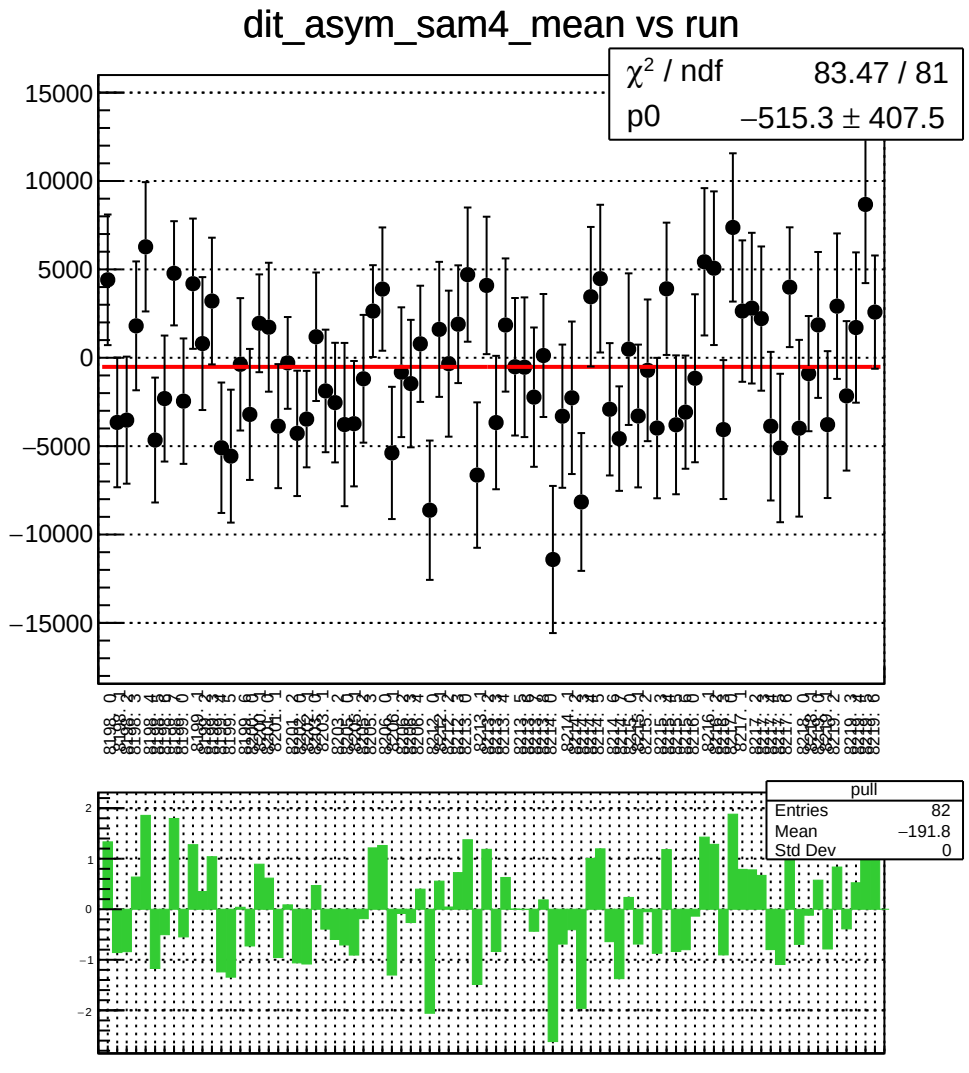

pull1D
Entries 82
Mean −0.02807
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

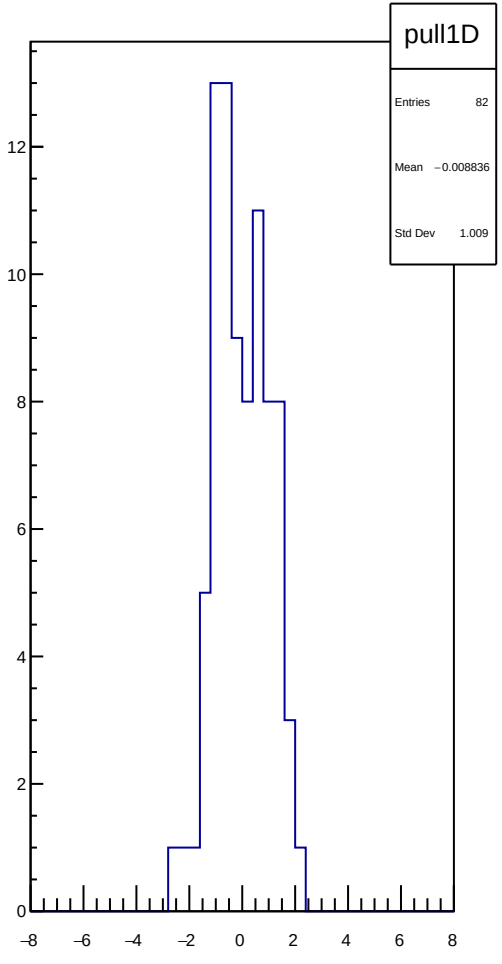

eigen_cor_asym_sam4_rms vs run
χ² / ndf 5536 / 81
p0 311.7 ± 0.2452
420
400
380
360
340
320
300
280

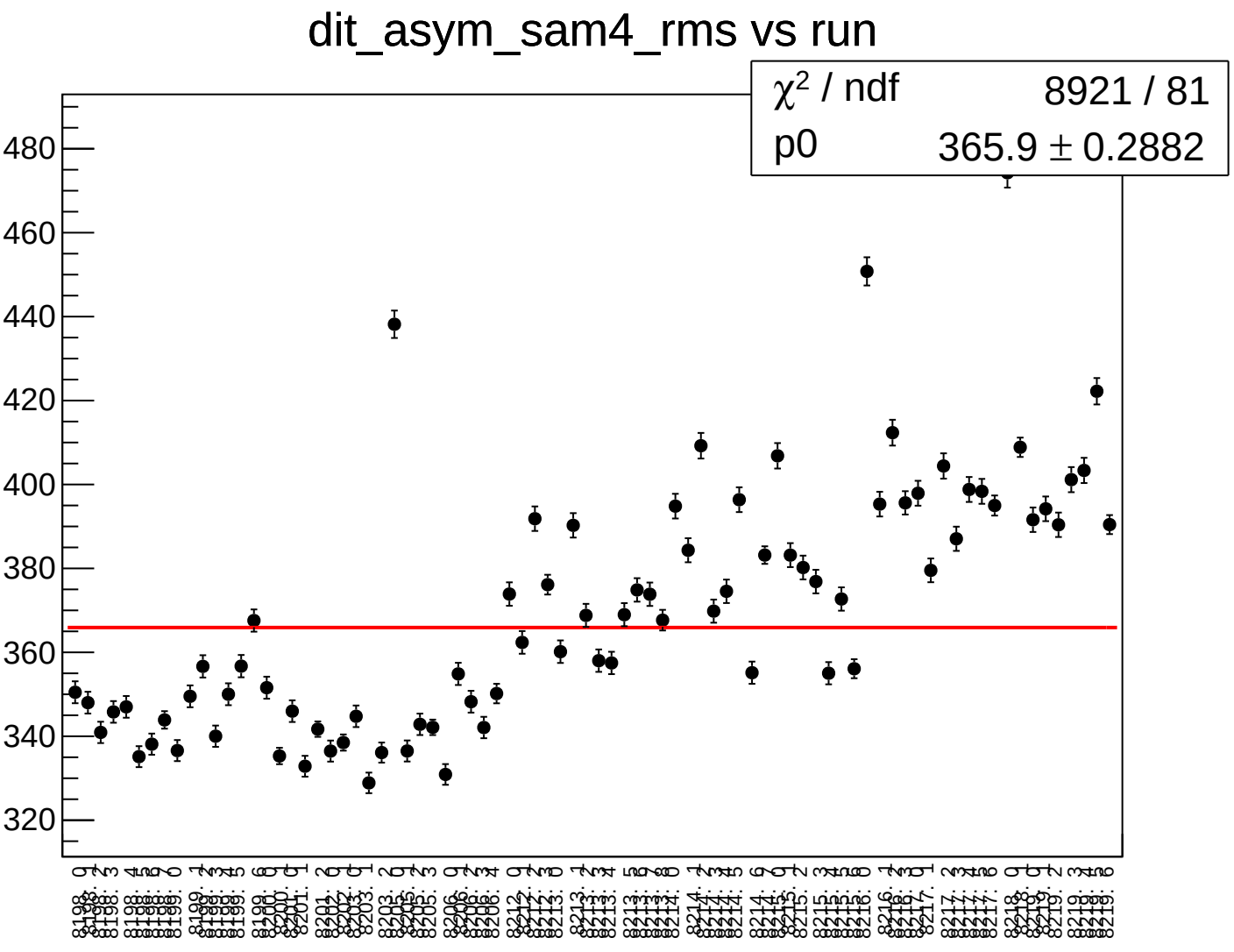

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.62 / 81
p0 −6633 ± 4935
pull
Entries 82
Mean −643
Std Dev 0

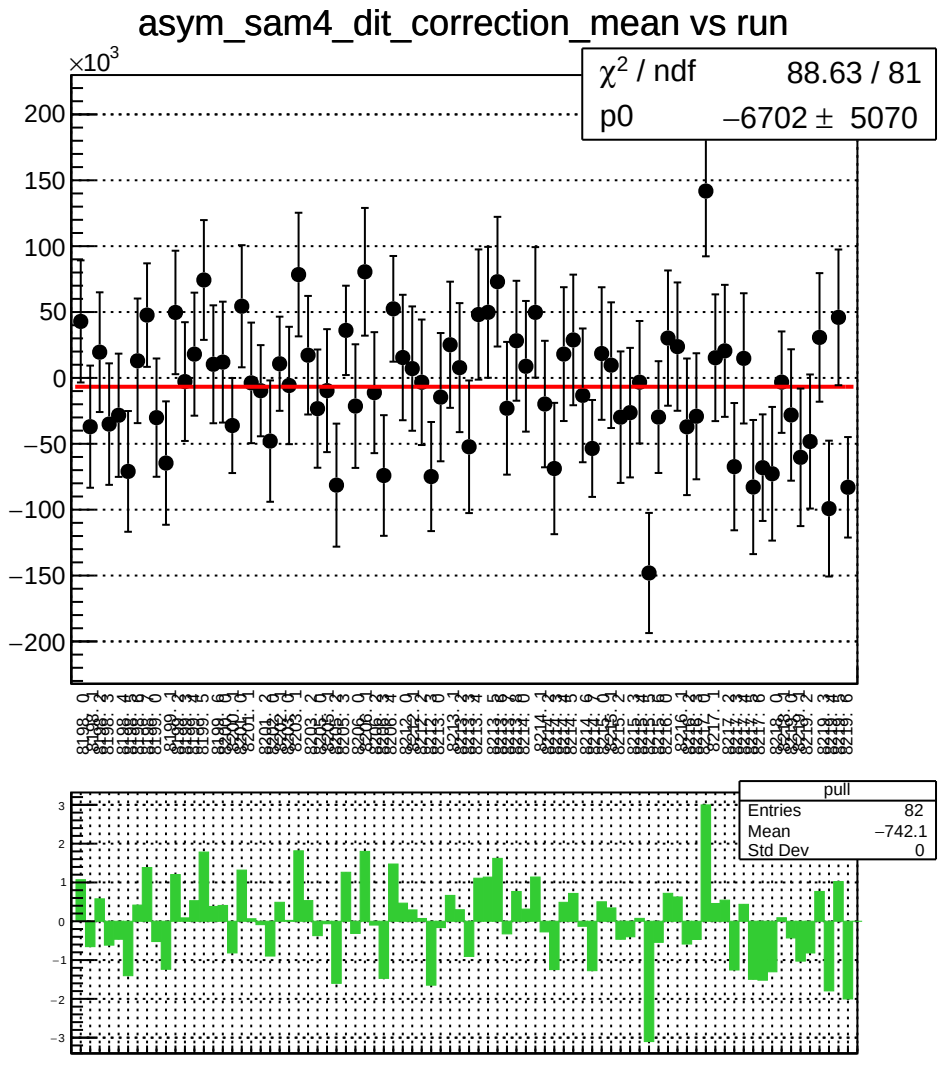

pull1D
Entries 82
Mean 0.007388
Std Dev 1.045

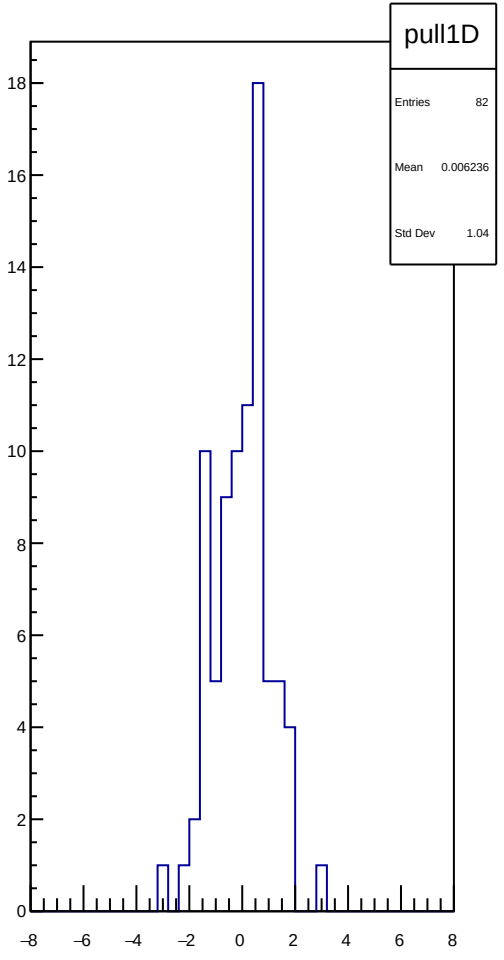

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 2082 / 81
p0 4441 ± 3.49
4800
4700
4600
4500
4400
4300
4200
4100

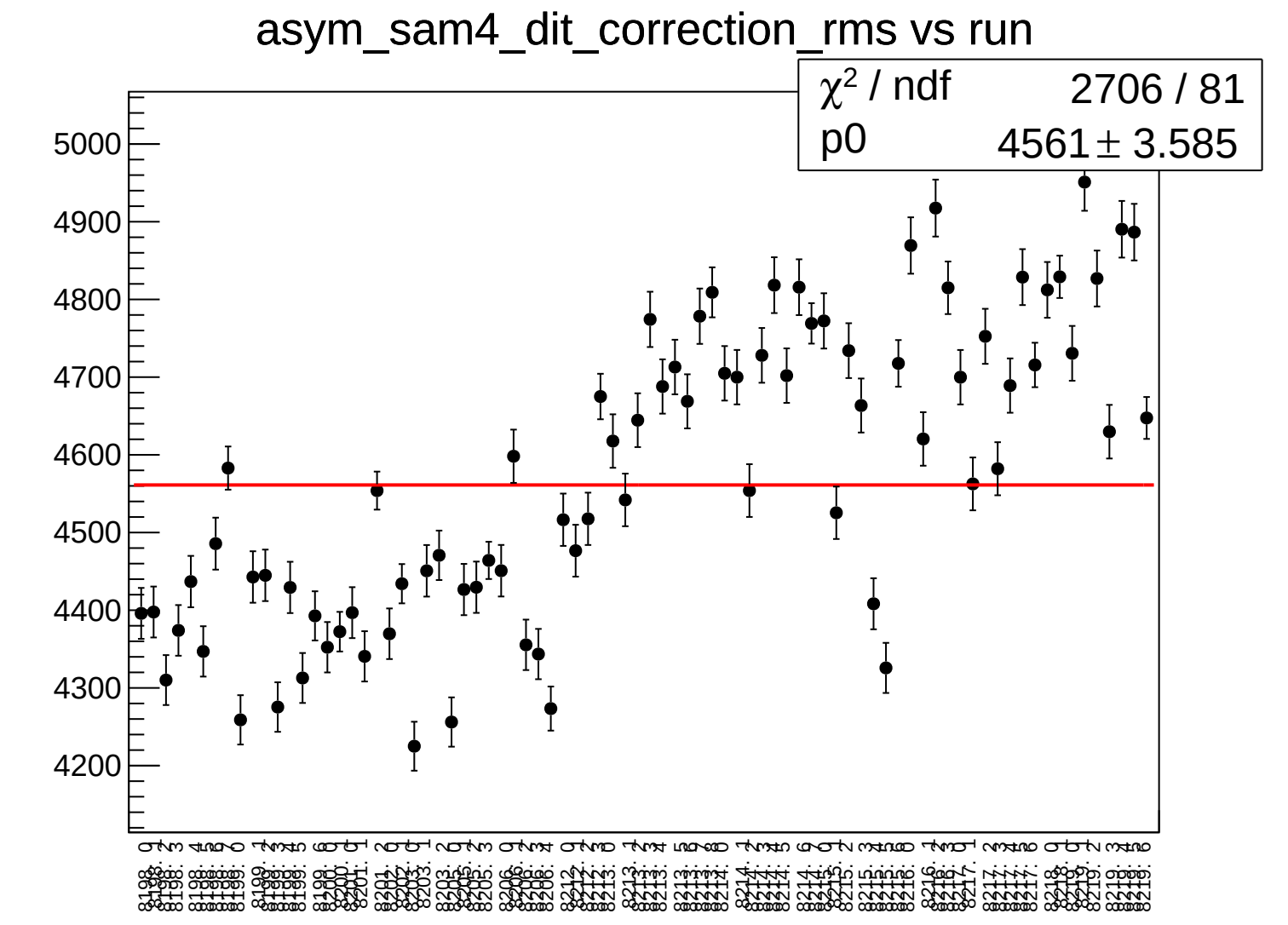

dit_asym_sam4_mean vs run
χ² / ndf 83.47 / 81
p0 −515.3 ± 407.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −191.8
Std Dev 0
2
1
0
−1
−2

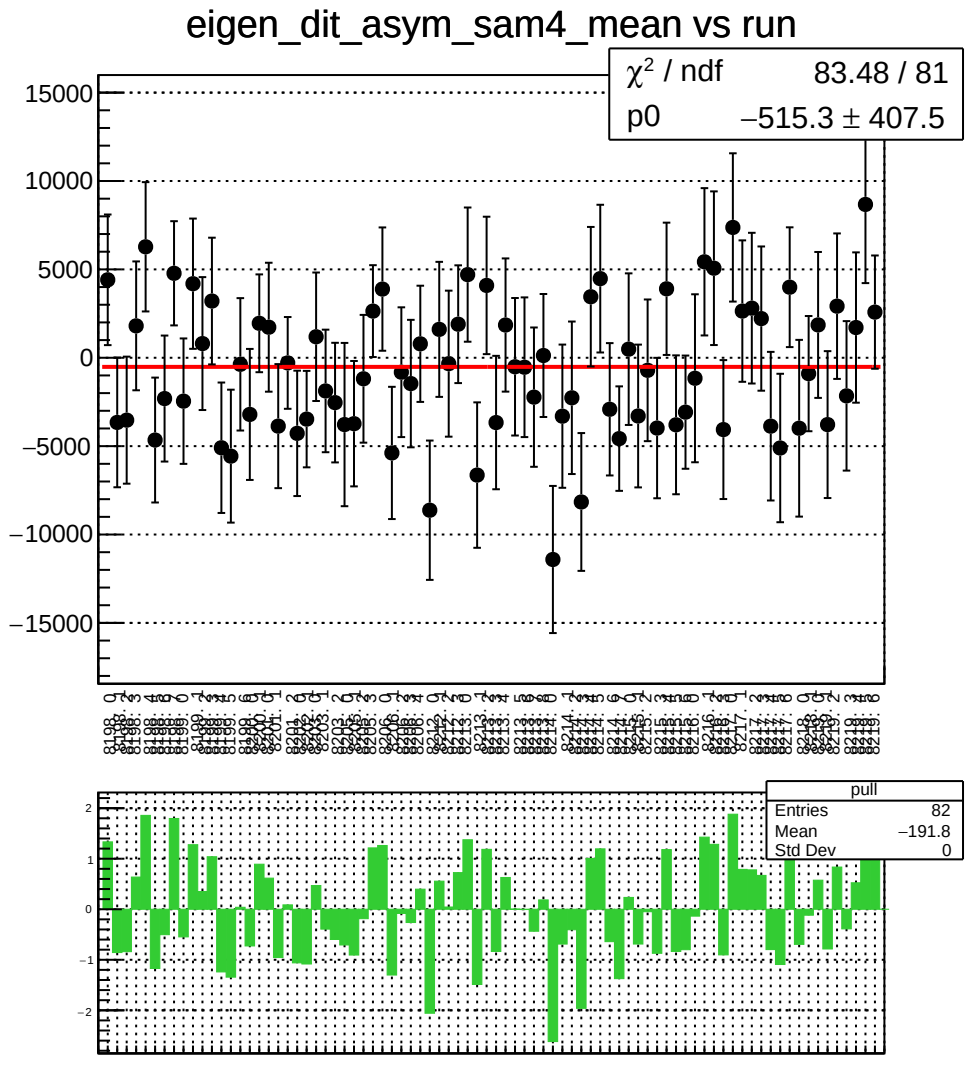

pull1D
Entries 82
Mean −0.008836
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

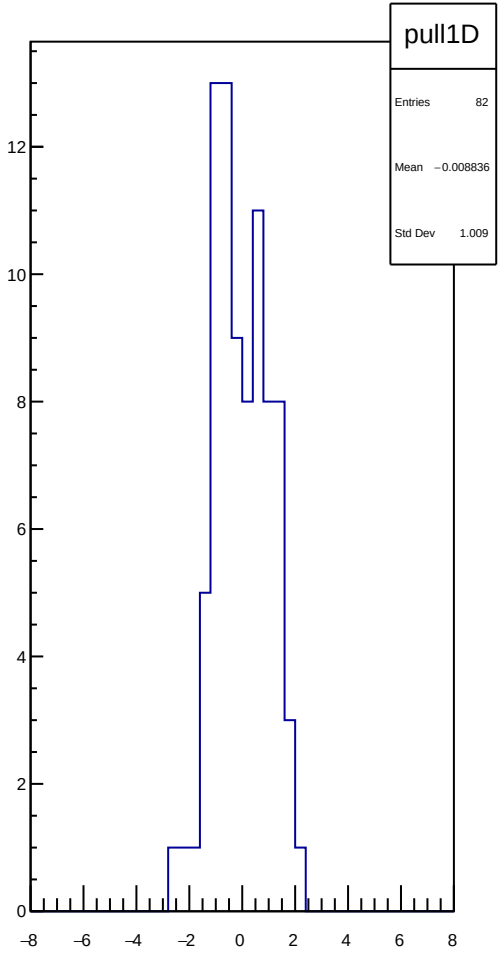

dit_asym_sam4_rms vs run
$\chi^2$ / ndf 8921 / 81
p0 365.9 ± 0.2882
480
460
440
420
400
380
360
340
320

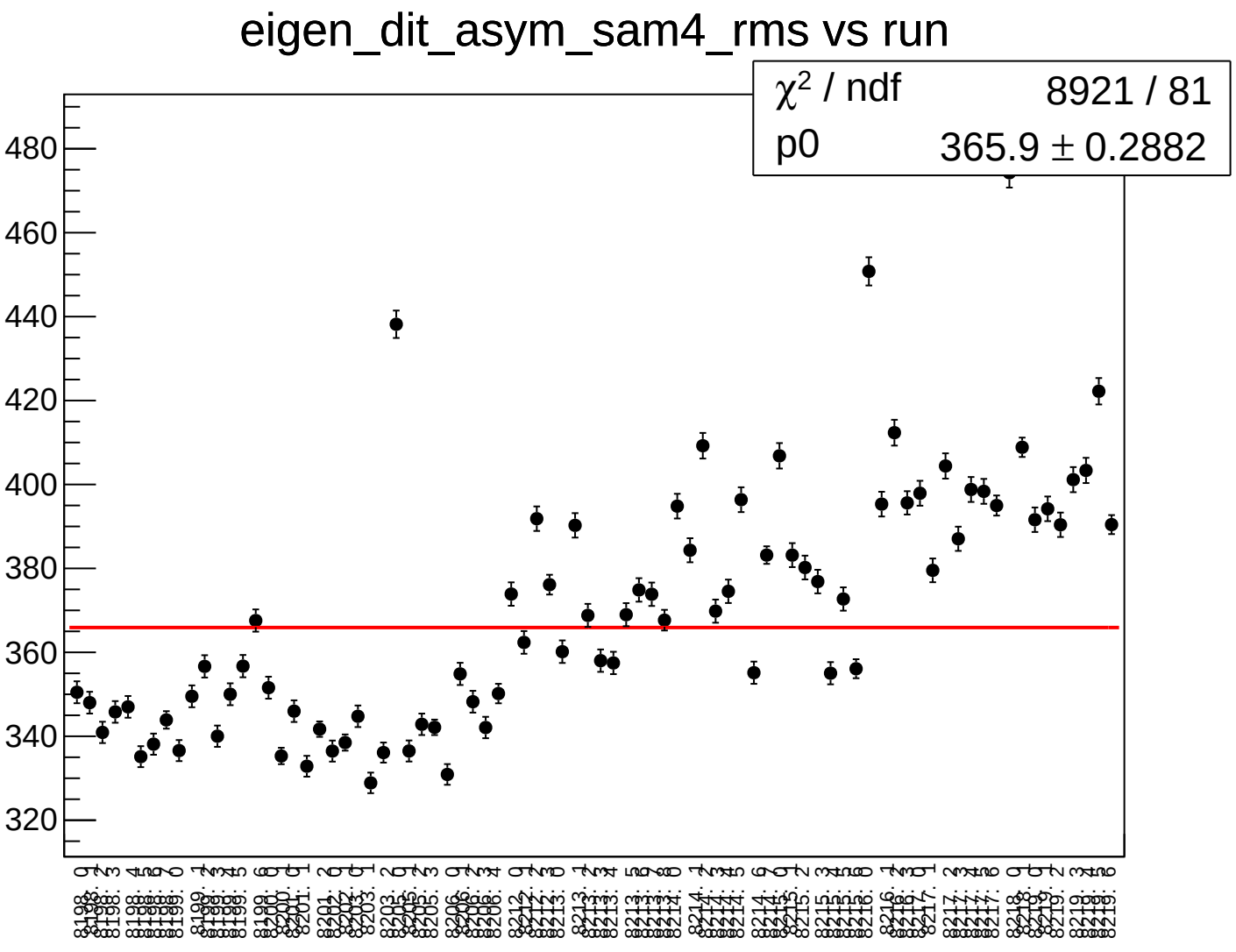

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 88.63 / 81
p0 −6702 ± 5070
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −742.1
Std Dev 0
3
2
1
0
−1
−2
−3

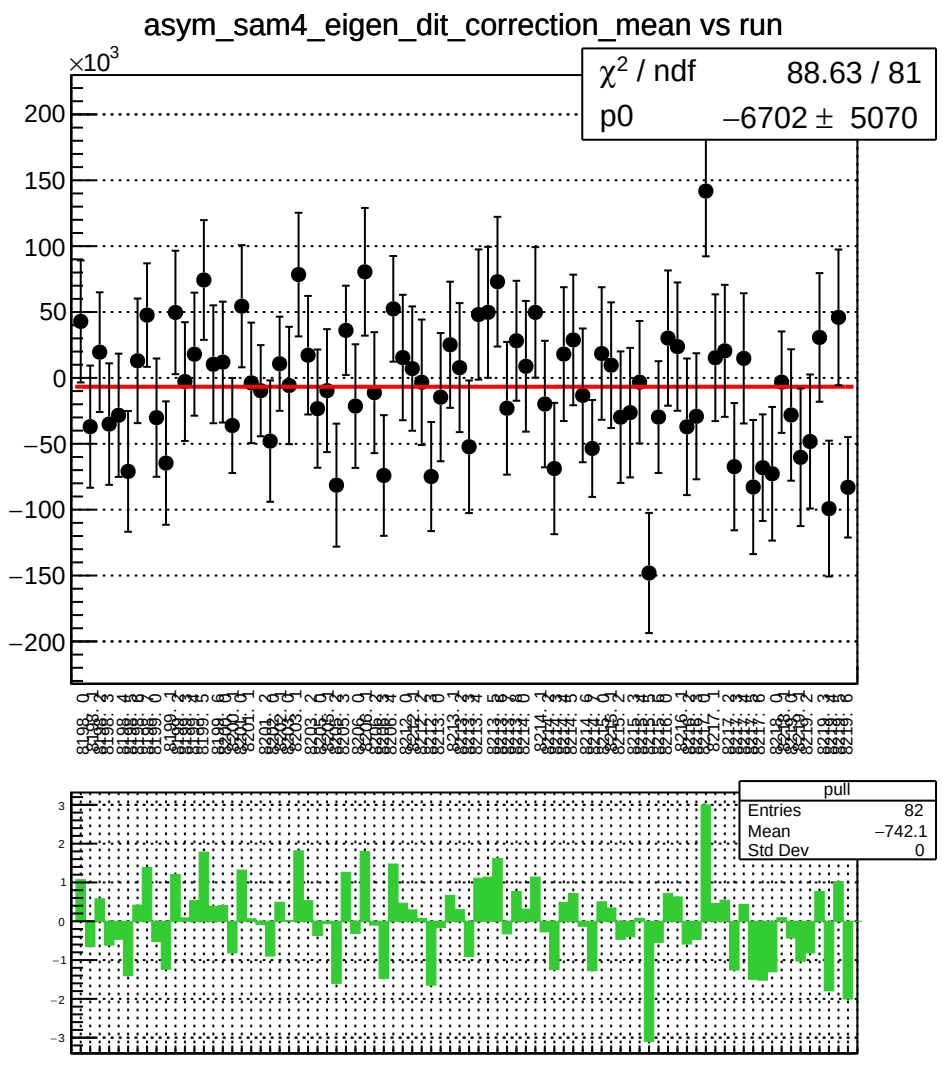

pull1D
Entries 82
Mean 0.006236
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

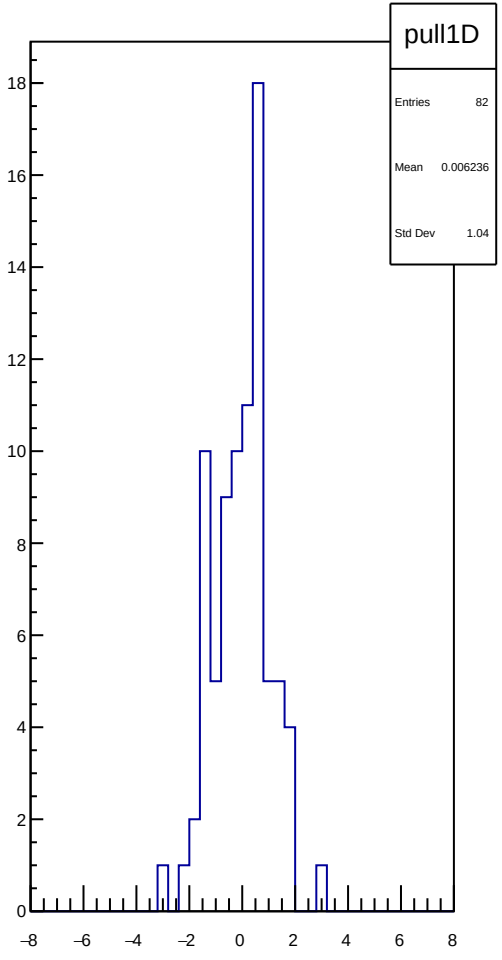

asym_sam4_dit_correction_rms vs run
χ² / ndf 2706 / 81
p0 4561 ± 3.585
5000
4900
4800
4700
4600
4500
4400
4300
4200

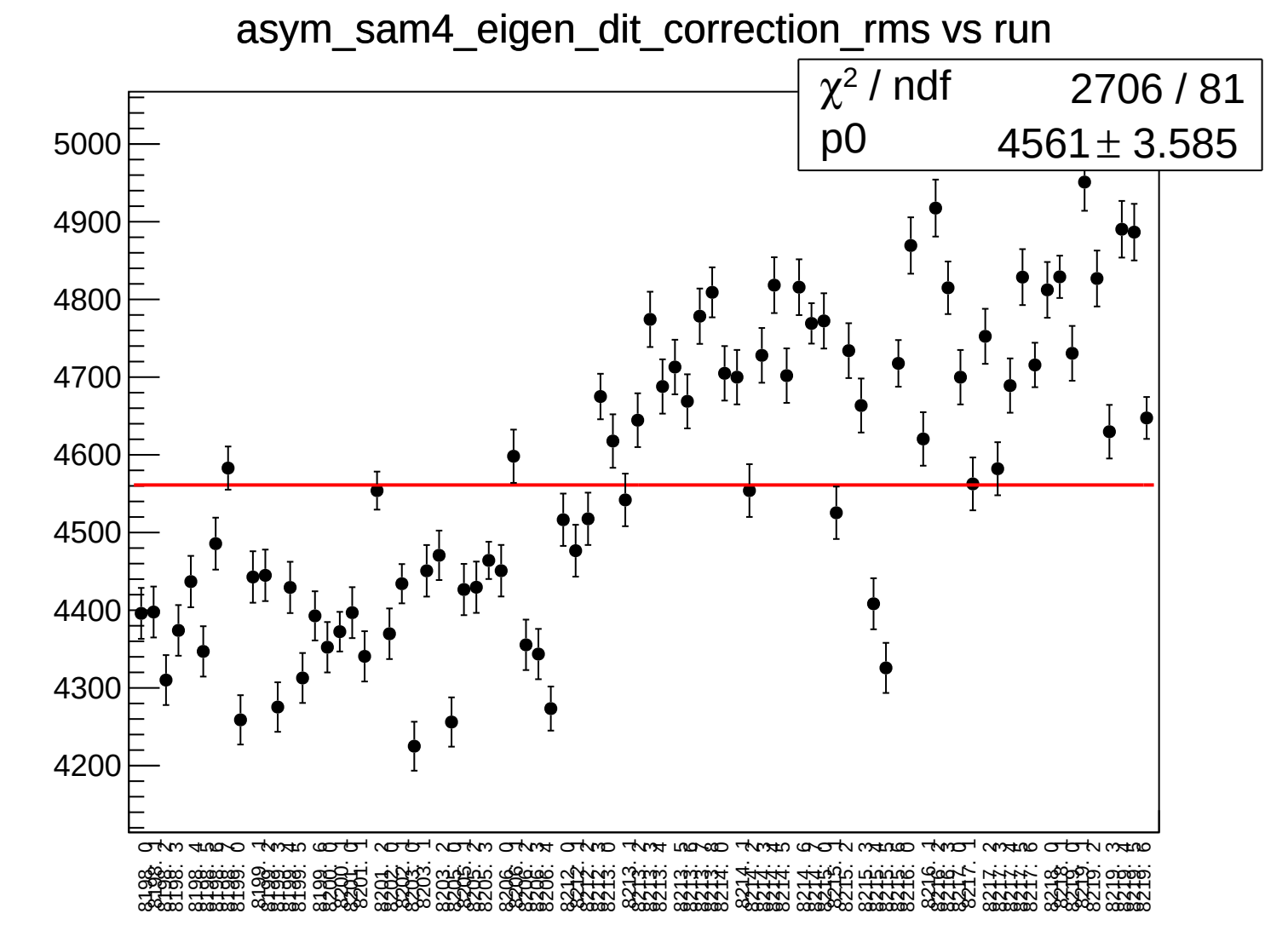

eigen_dit_asym_sam4_mean vs run
χ² / ndf 83.48 / 81
p0 −515.3 ± 407.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −191.8
Std Dev 0
2
1
0
−1
−2

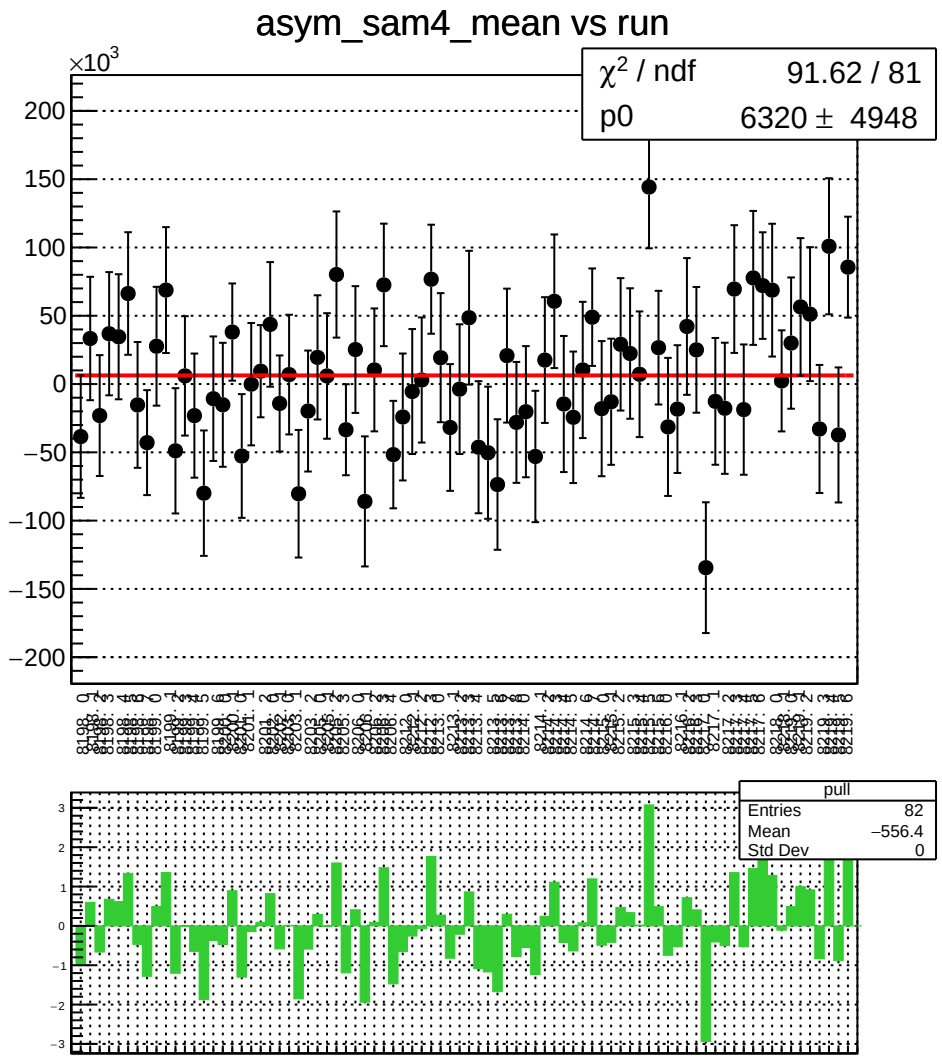

pull1D
Entries 82
Mean −0.008836
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

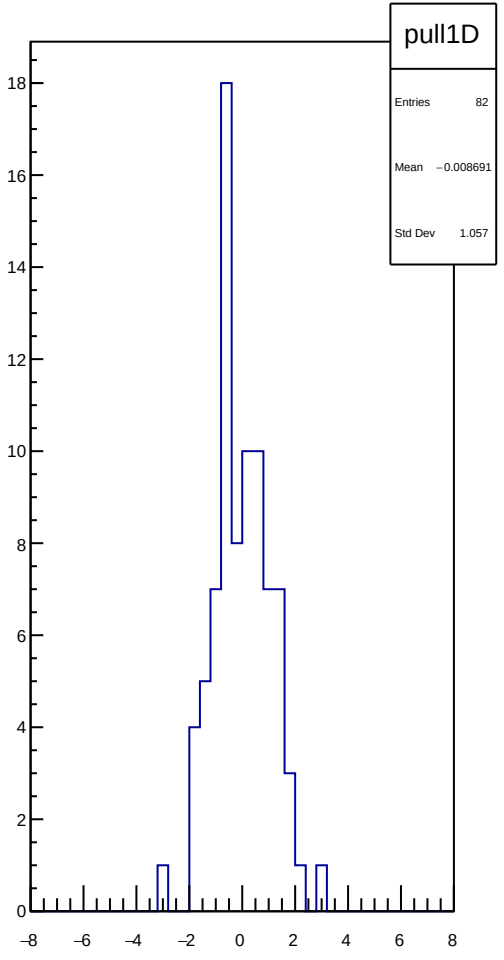

eigen_dit_asym_sam4_rms vs run
χ² / ndf 8921 / 81
p0 365.9 ± 0.2882
480
460
440
420
400
380
360
340
320

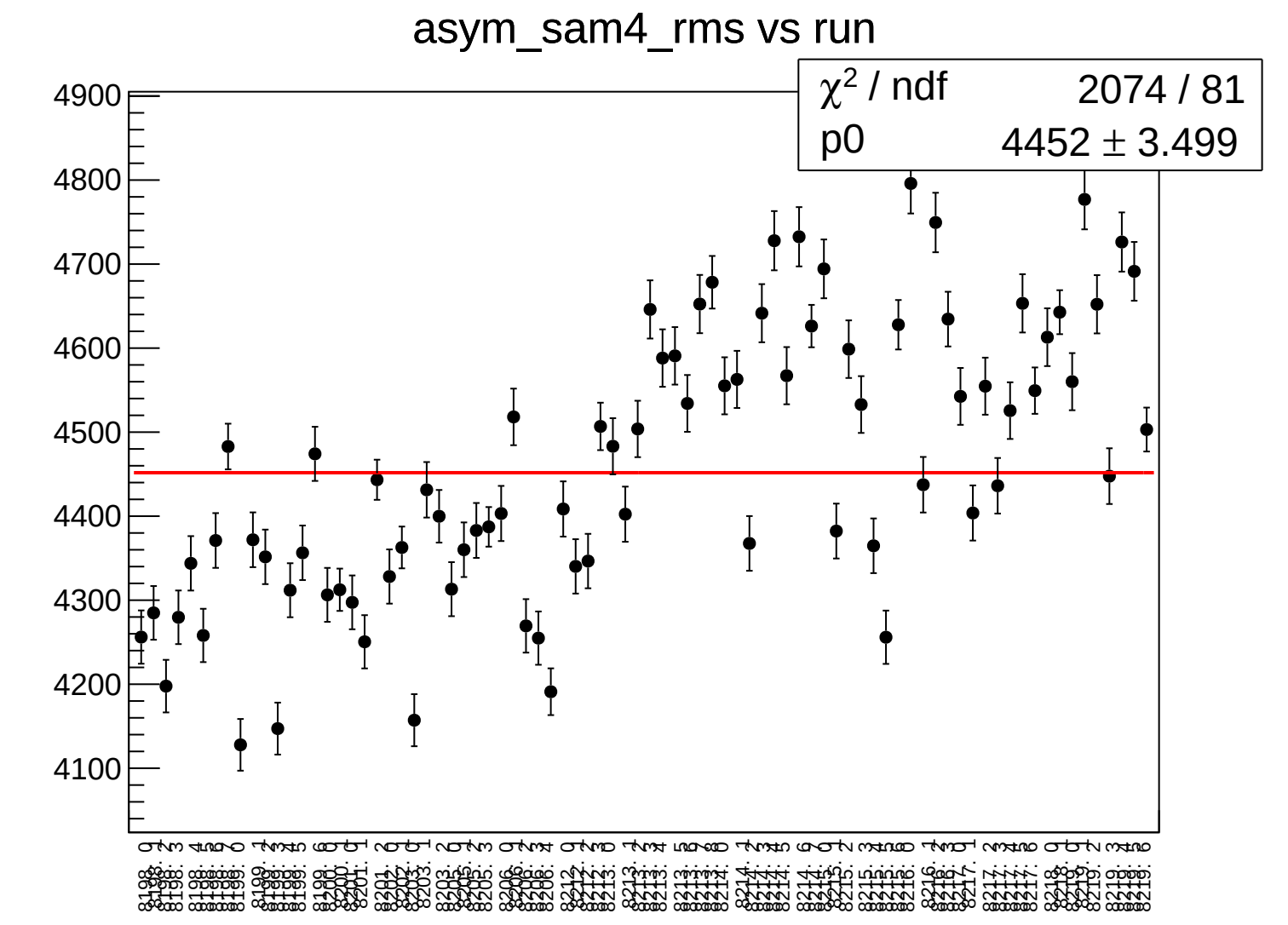

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.63 / 81
p0 −6702 ± 5070
pull
Entries 82
Mean −742.1
Std Dev 0

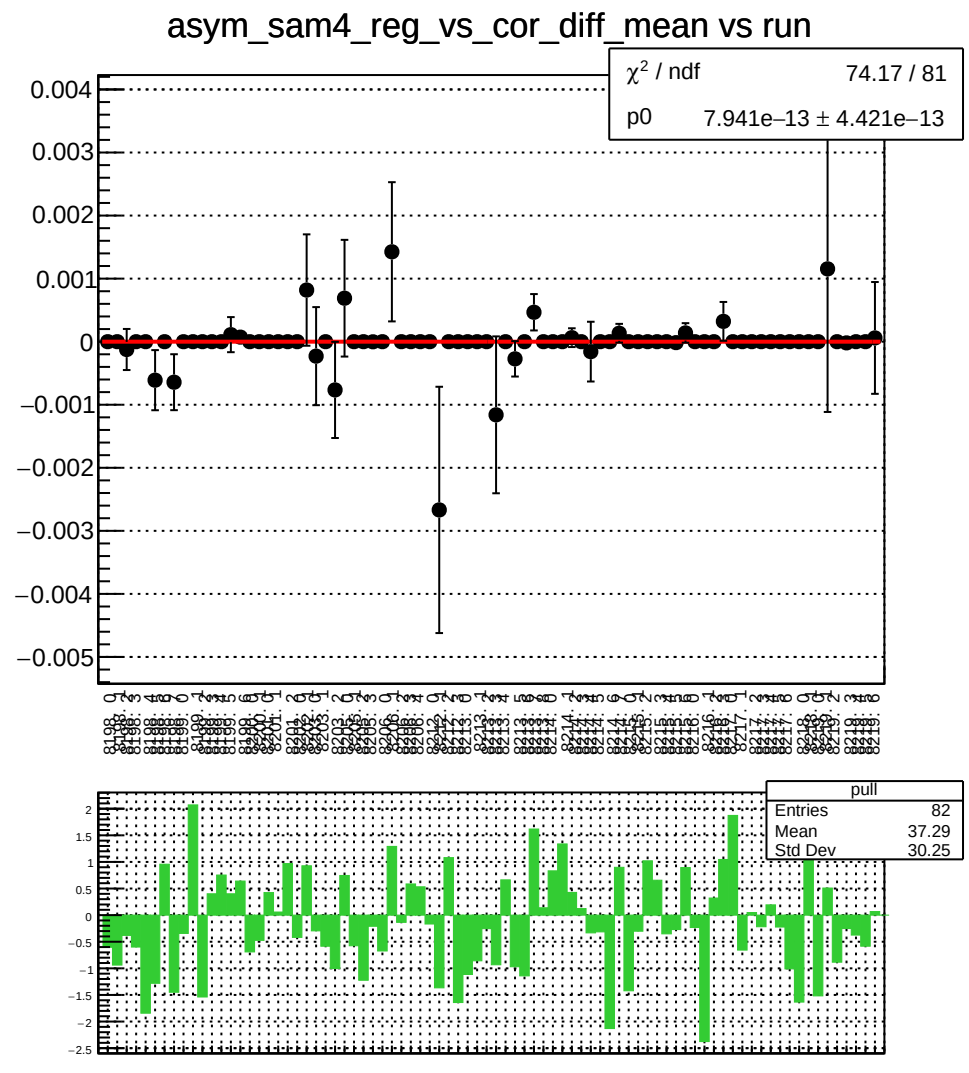

pull1D
Entries 82
Mean 0.006236
Std Dev 1.04

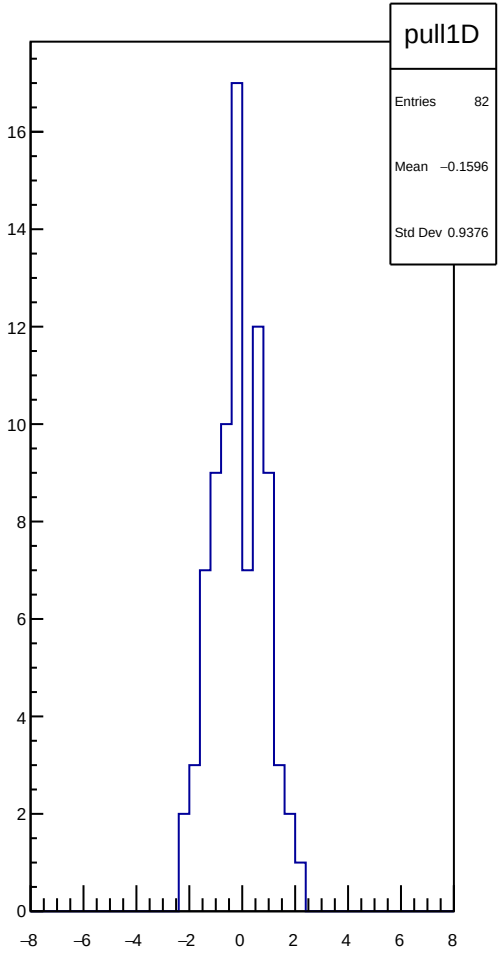

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2706 / 81
p0 4561 ± 3.585
5000
4900
4800
4700
4600
4500
4400
4300
4200

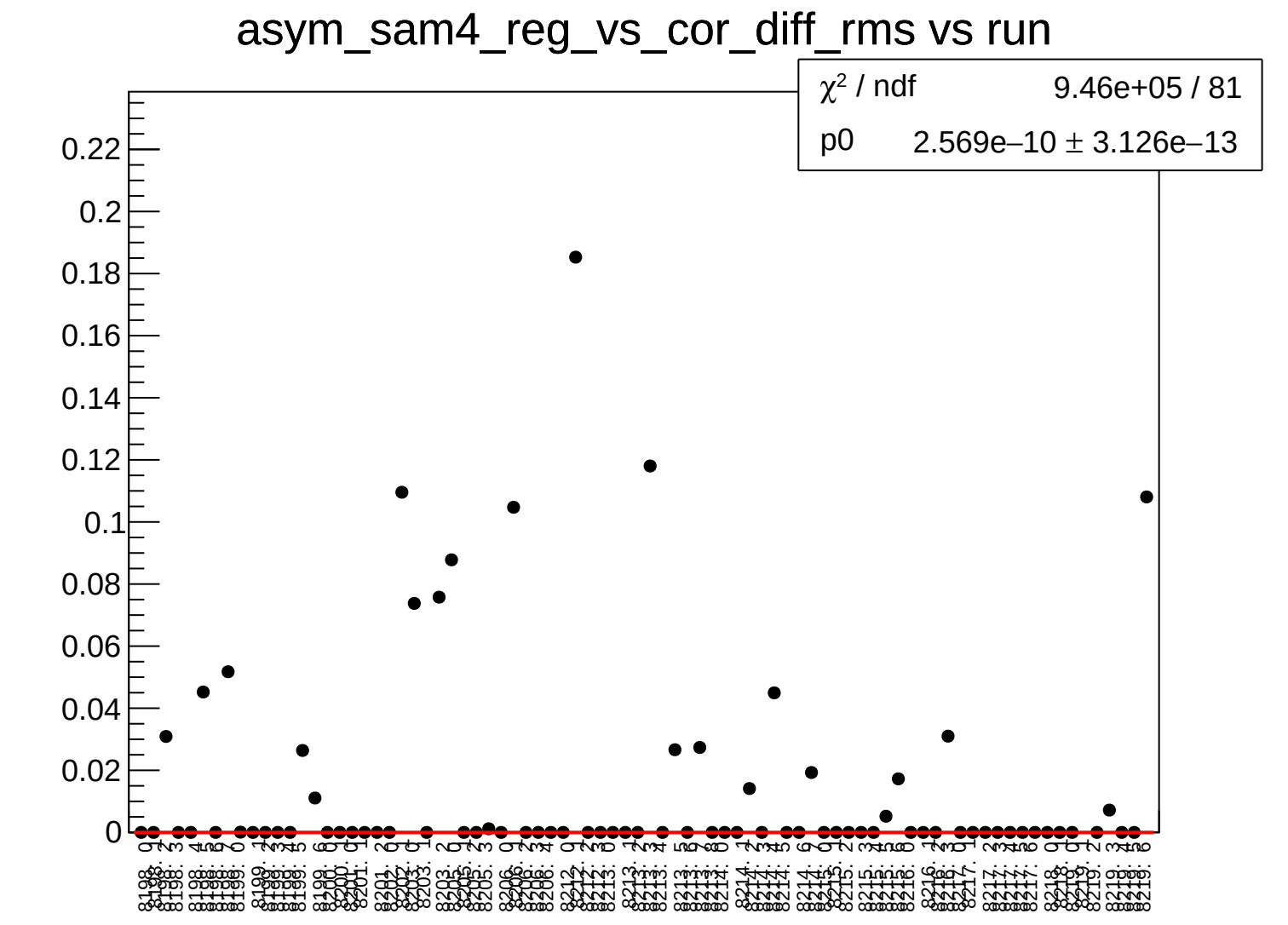

asym_sam4_mean vs run
×10^3
χ^2 / ndf 91.62 / 81
p0 6320 ± 4948
pull
Entries 82
Mean −556.4
Std Dev 0

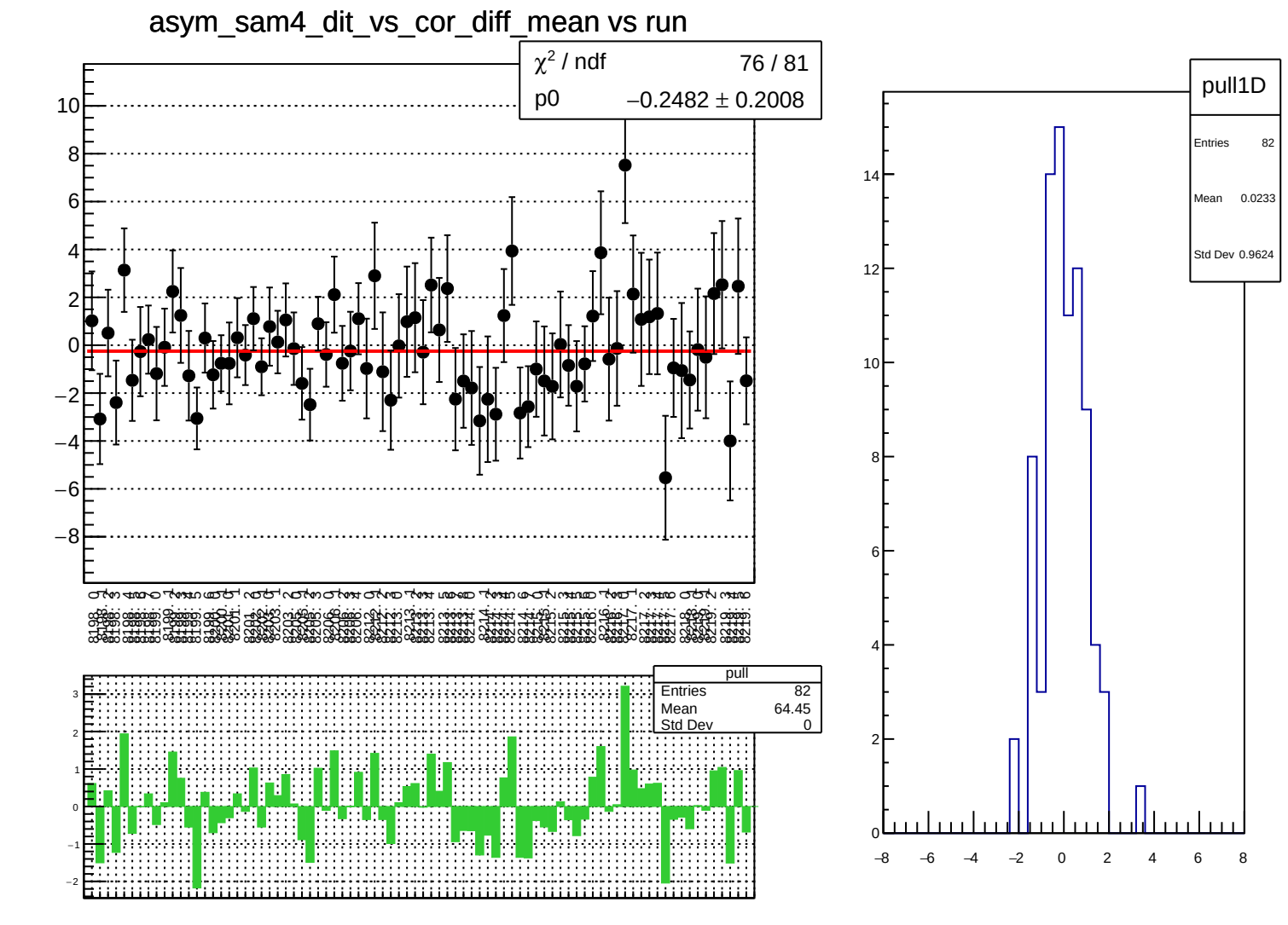

pull1D
Entries 82
Mean −0.008691
Std Dev 1.057

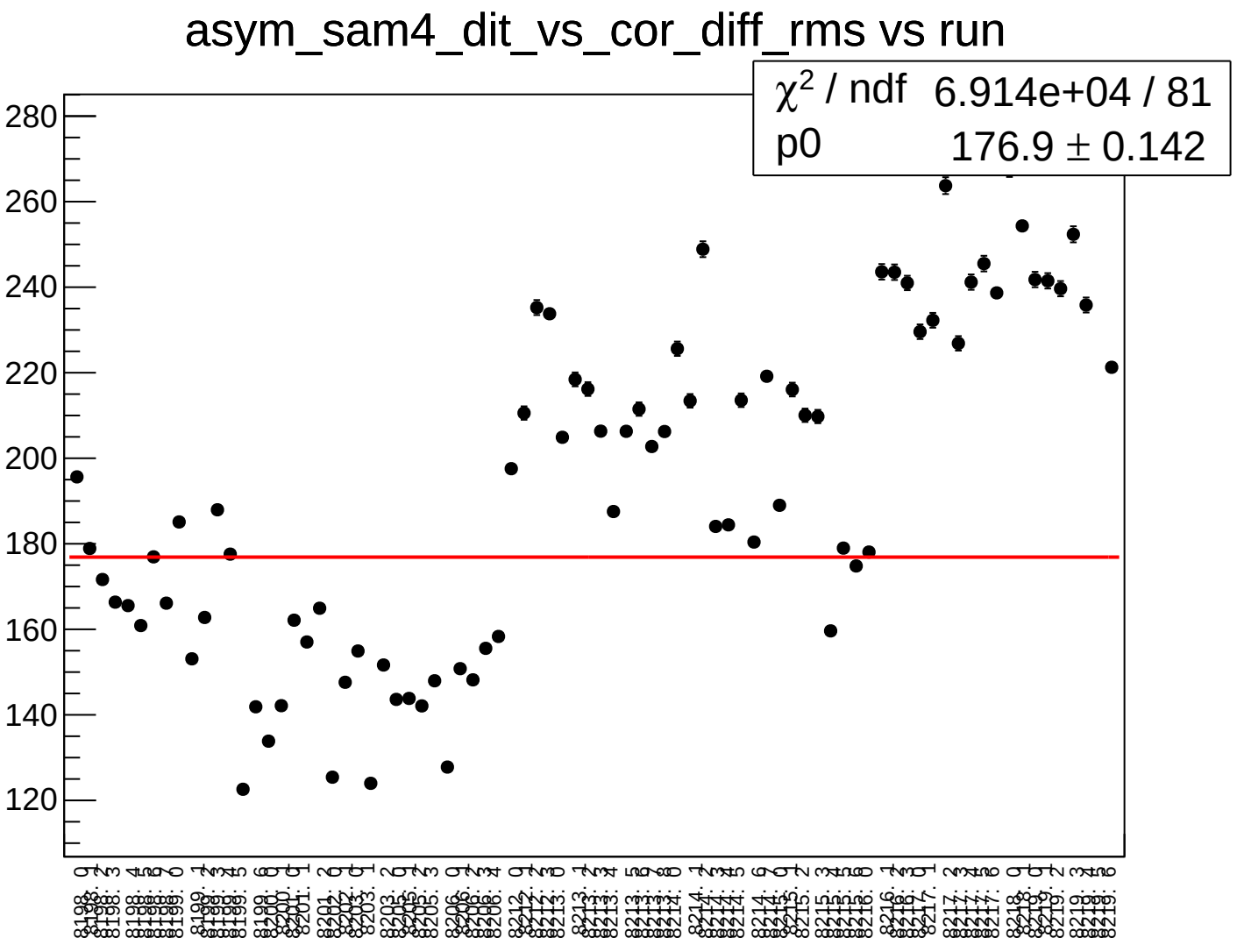

asym_sam4_rms vs run
χ² / ndf 2074 / 81
p0 4452 ± 3.499
4900
4800
4700
4600
4500
4400
4300
4200
4100


asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 74.17 / 81
p0 7.941e−13 ± 4.421e−13
pull
Entries 82
Mean 37.29
Std Dev 30.25

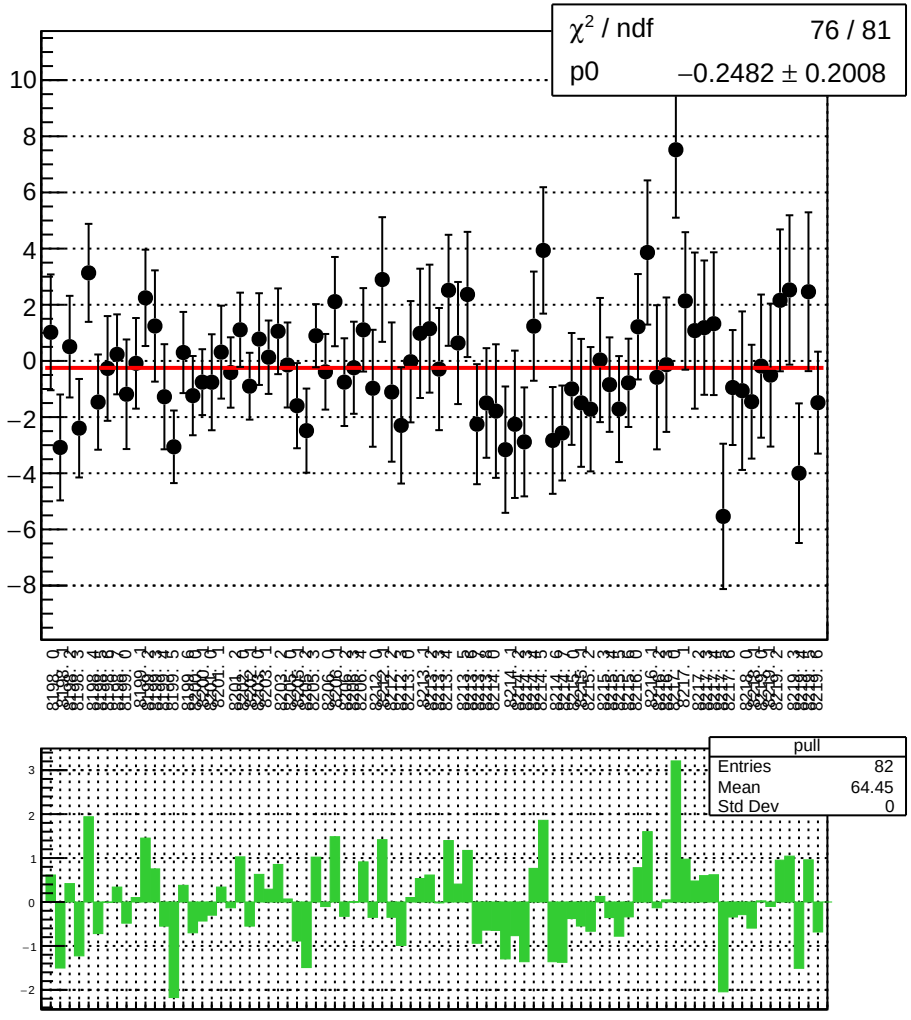

pull1D
Entries 82
Mean −0.1596
Std Dev 0.9376

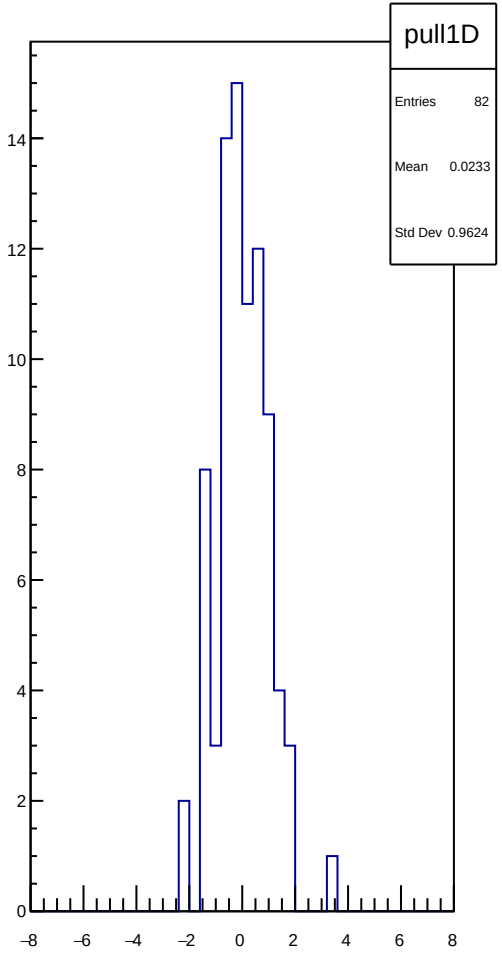

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.46e+05 / 81
p0 2.569e−10 ± 3.126e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

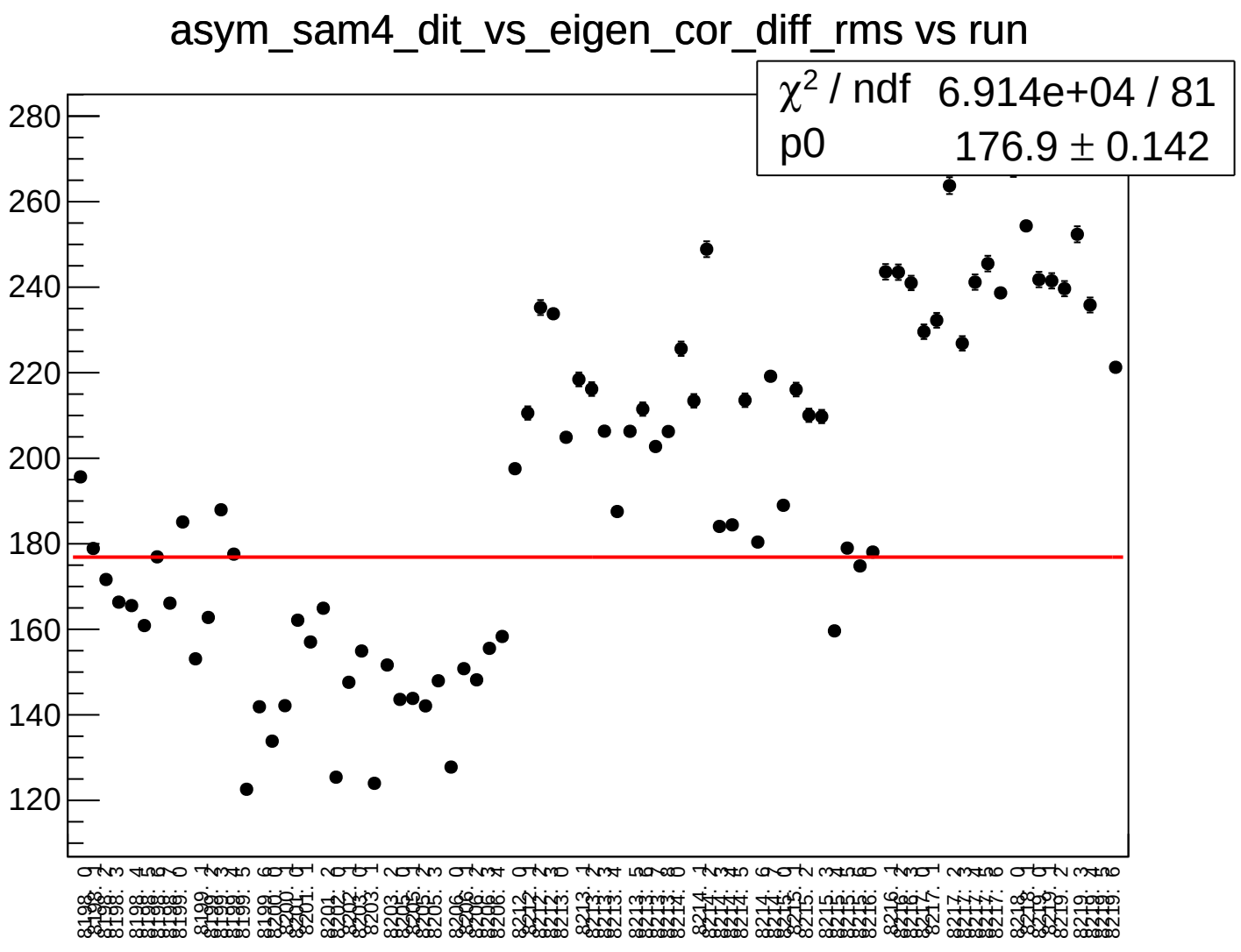

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 76 / 81
p0 −0.2482 ± 0.2008
pull
Entries 82
Mean 64.45
Std Dev 0
pull1D
Entries 82
Mean 0.0233
Std Dev 0.9624

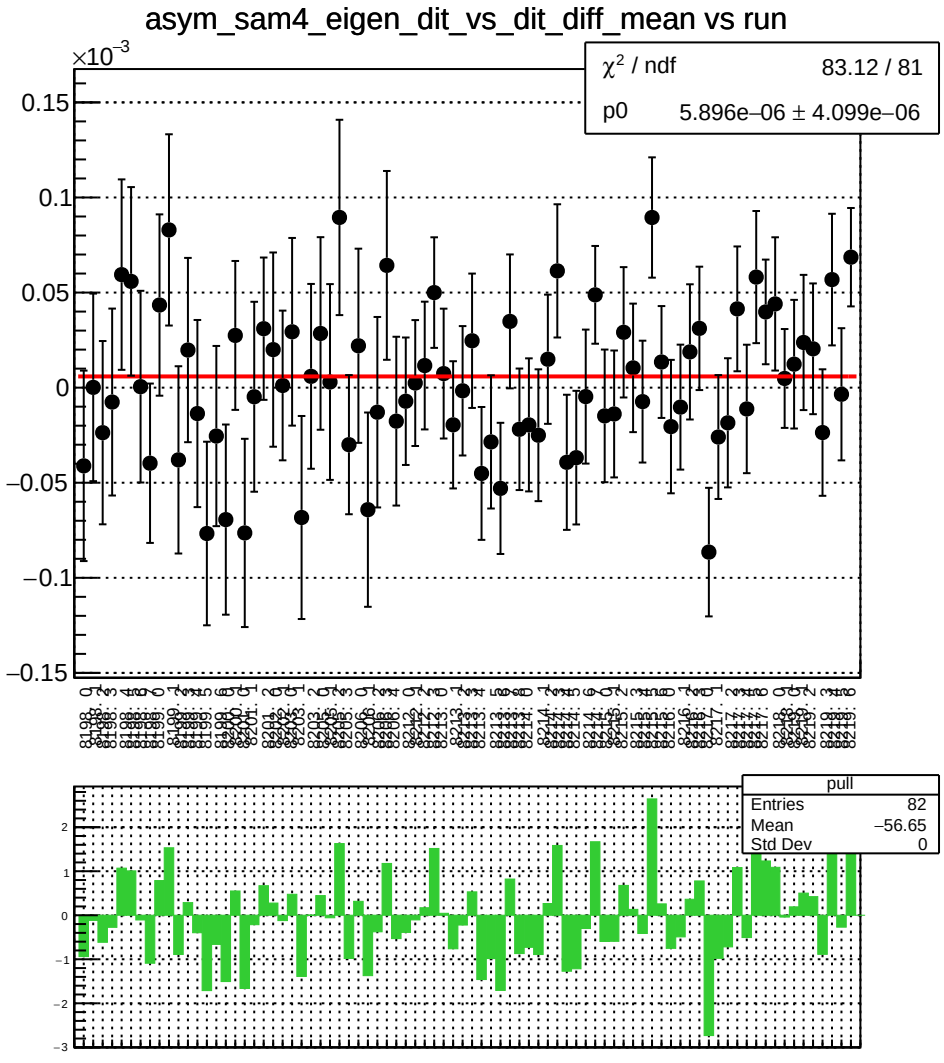

asym_sam4_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 6.914e+04 / 81
p0 176.9 ± 0.142
280
260
240
220
200
180
160
140
120

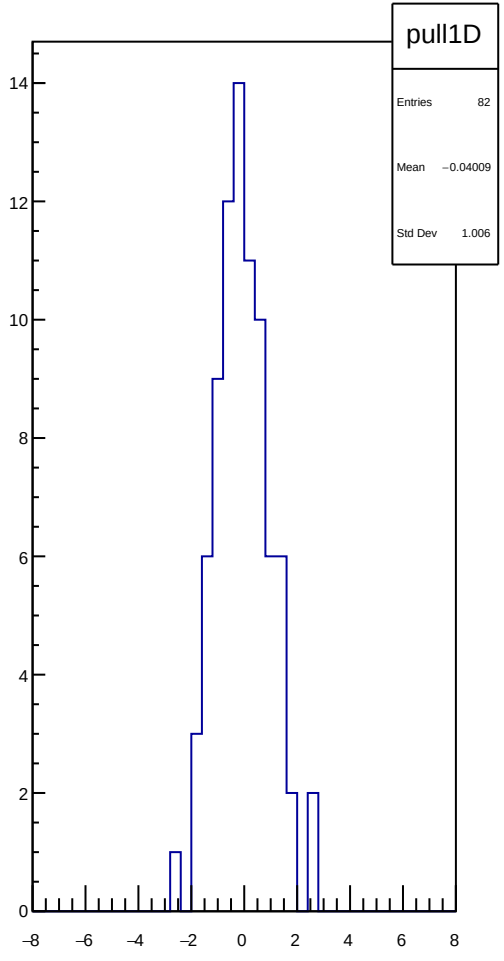
asym_sam4_dit_vs_eigen_cor_diff_mean vs run

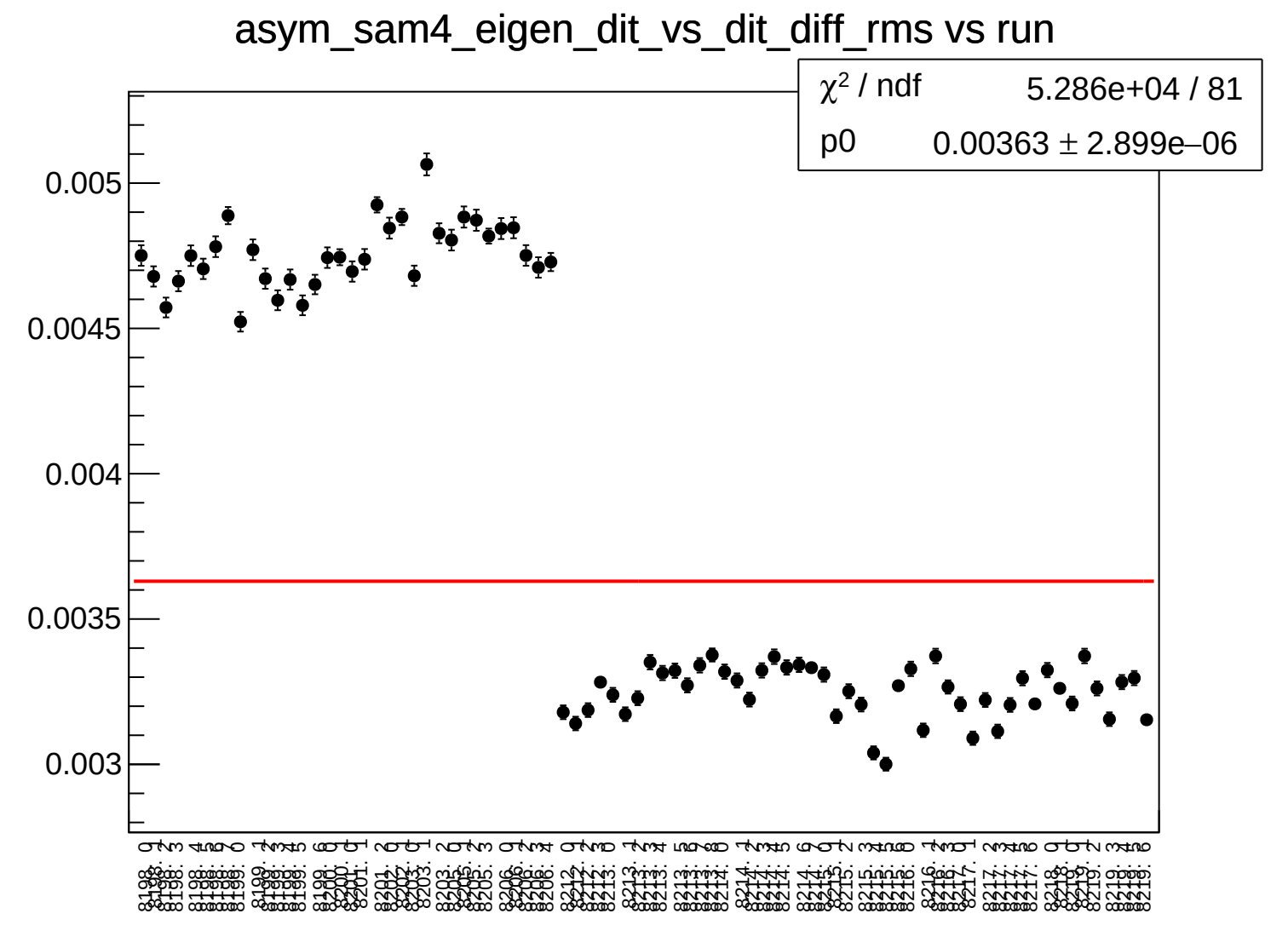


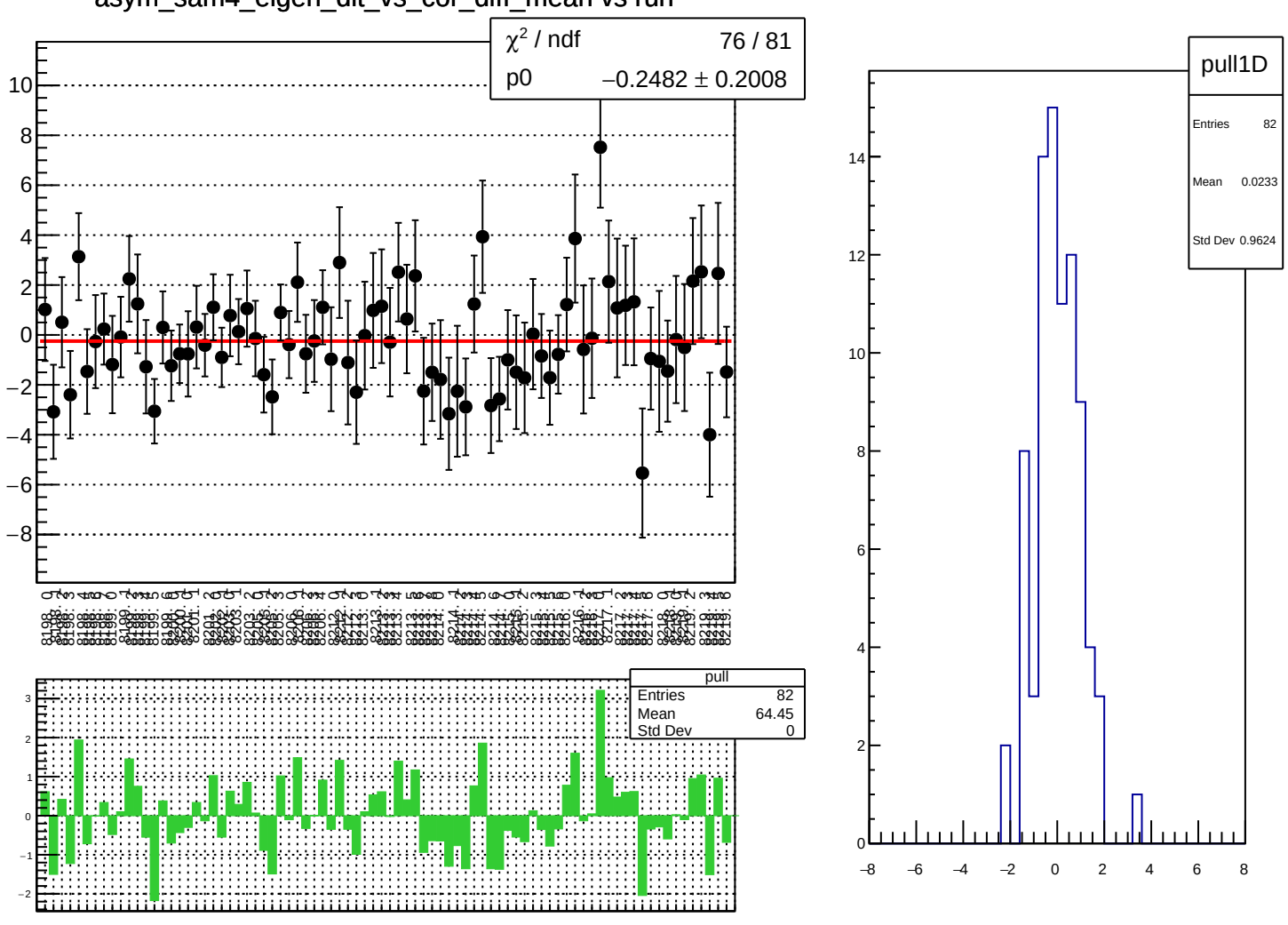



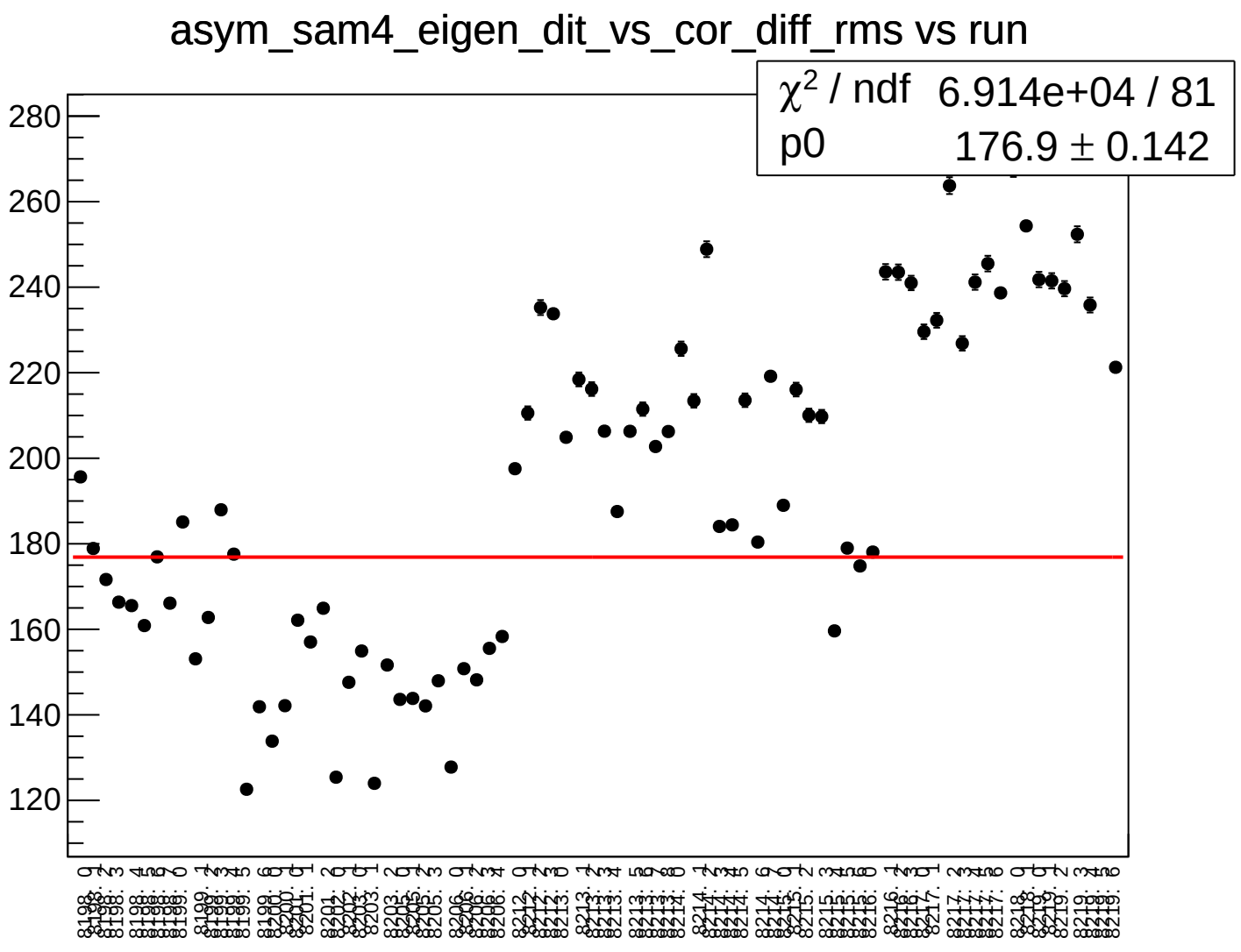

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.914e+04 / 81
p0 176.9 ± 0.142
280
260
240
220
200
180
160
140
120

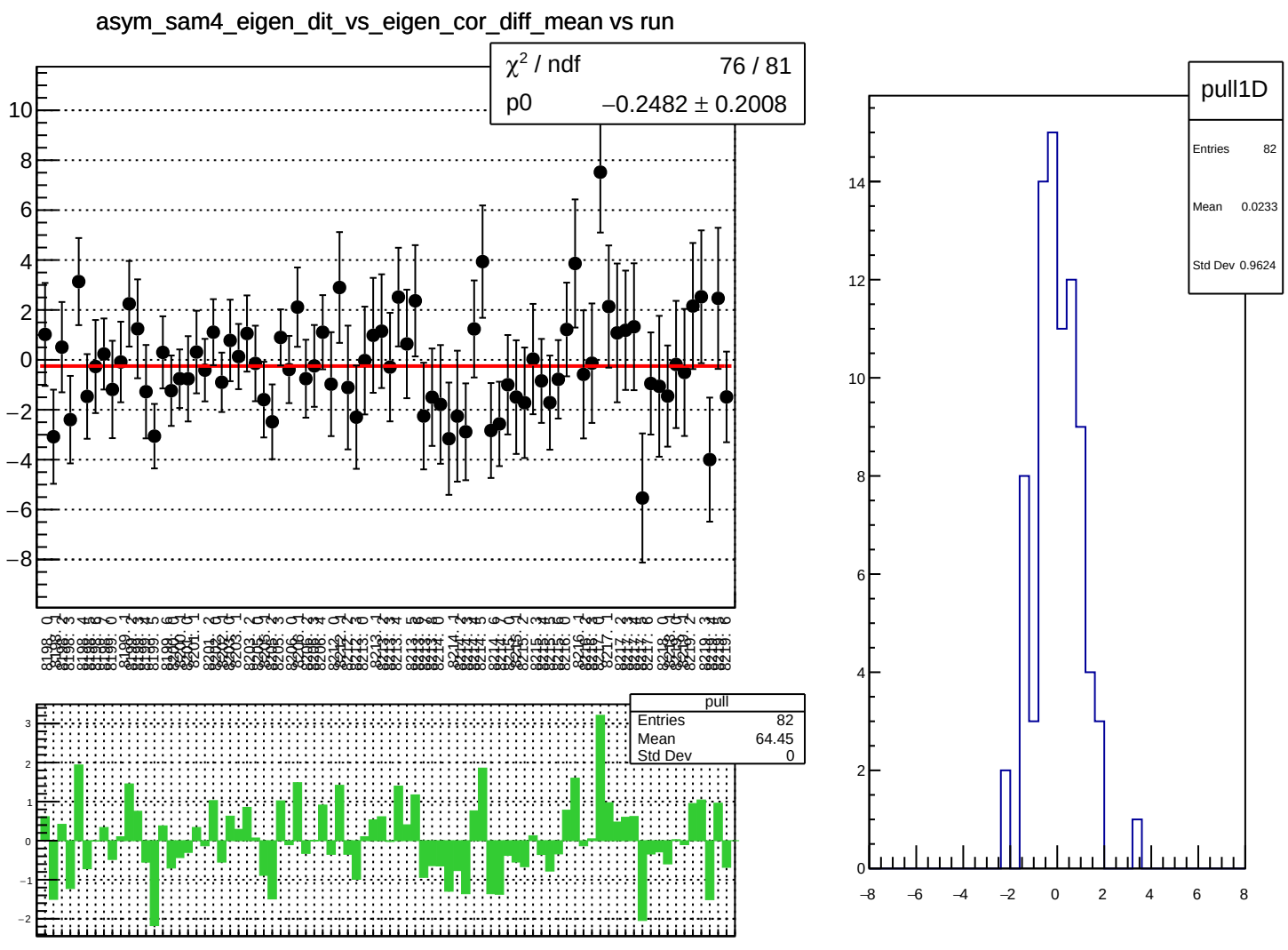

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.12 / 81
p0 5.896e−06 ± 4.099e−06
pull
Entries 82
Mean −56.65
Std Dev 0

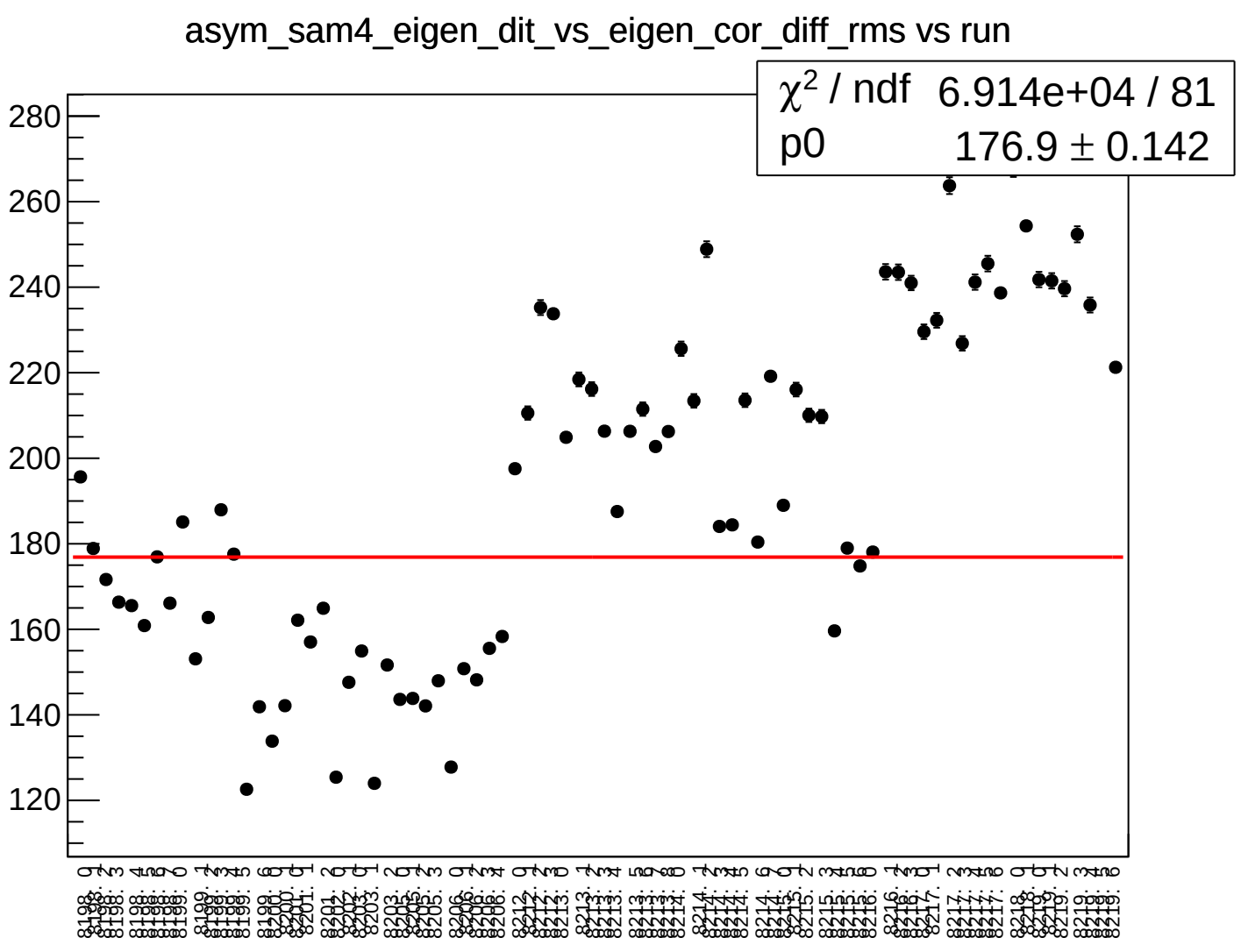

pull1D
Entries 82
Mean −0.04009
Std Dev 1.006

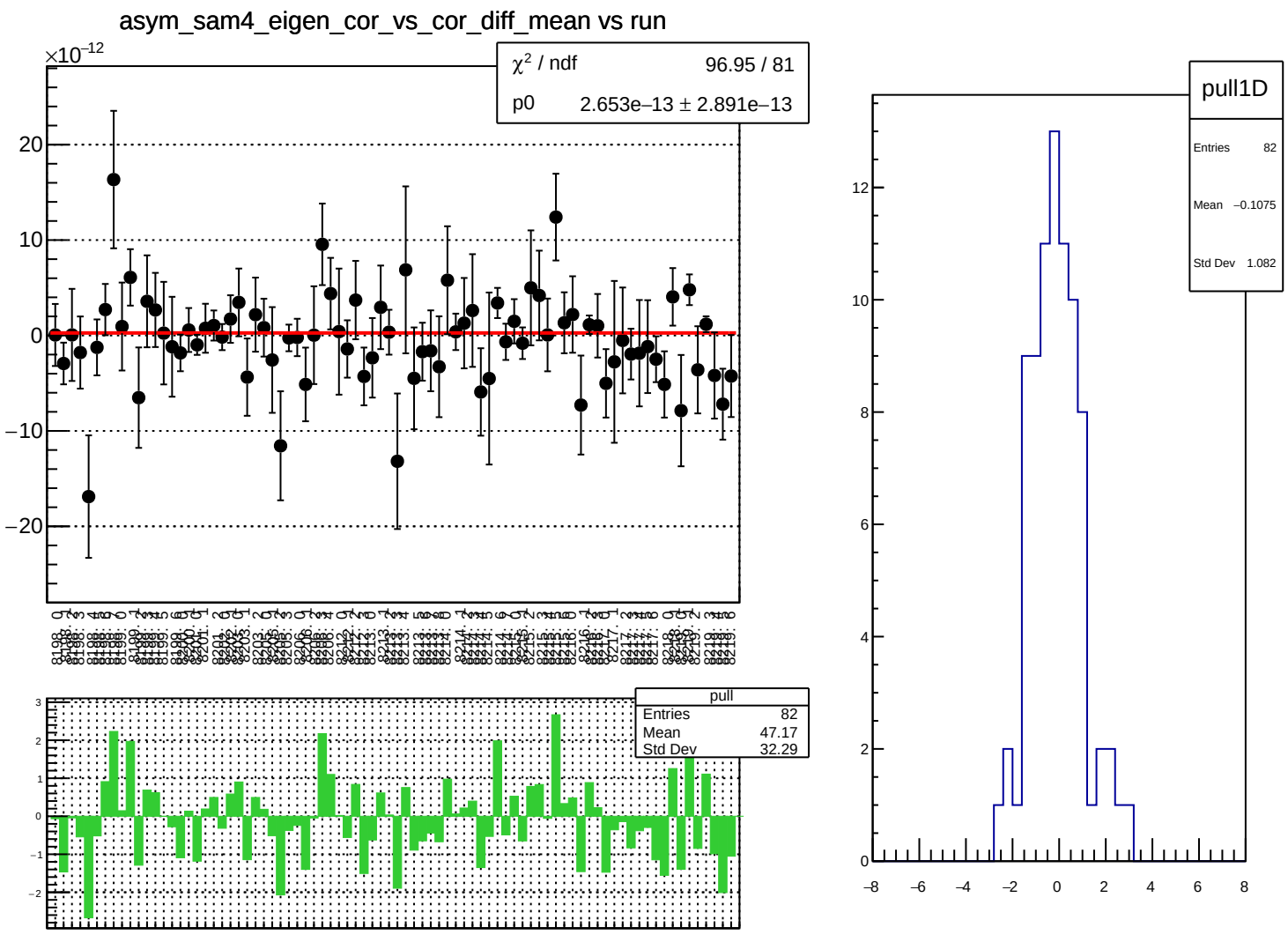

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.286e+04 / 81
p0 0.00363 ± 2.899e–06
0.005
0.0045
0.004
0.0035
0.003

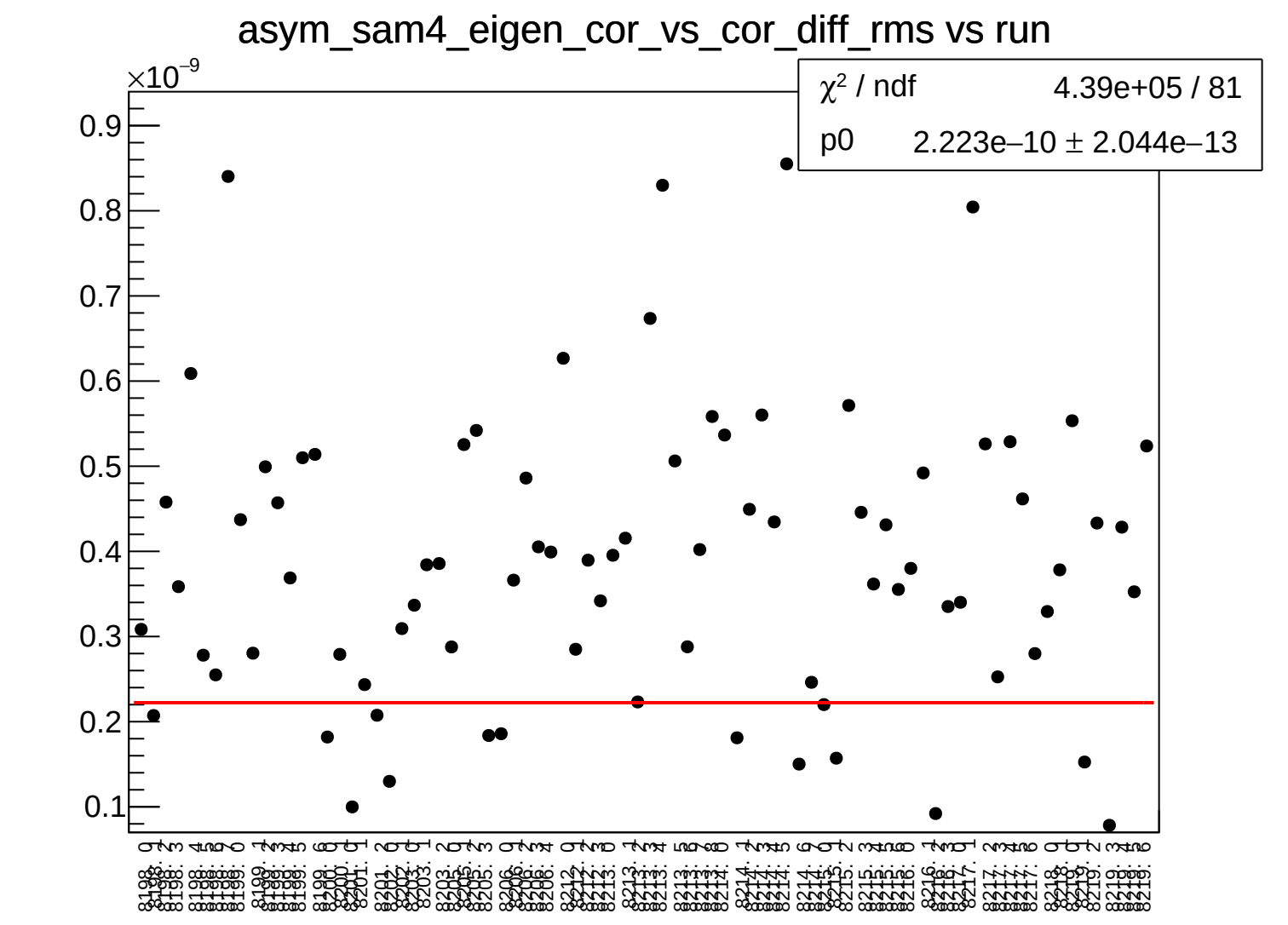

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76 / 81
p0 −0.2482 ± 0.2008
pull
Entries 82
Mean 64.45
Std Dev 0
pull1D
Entries 82
Mean 0.0233
Std Dev 0.9624

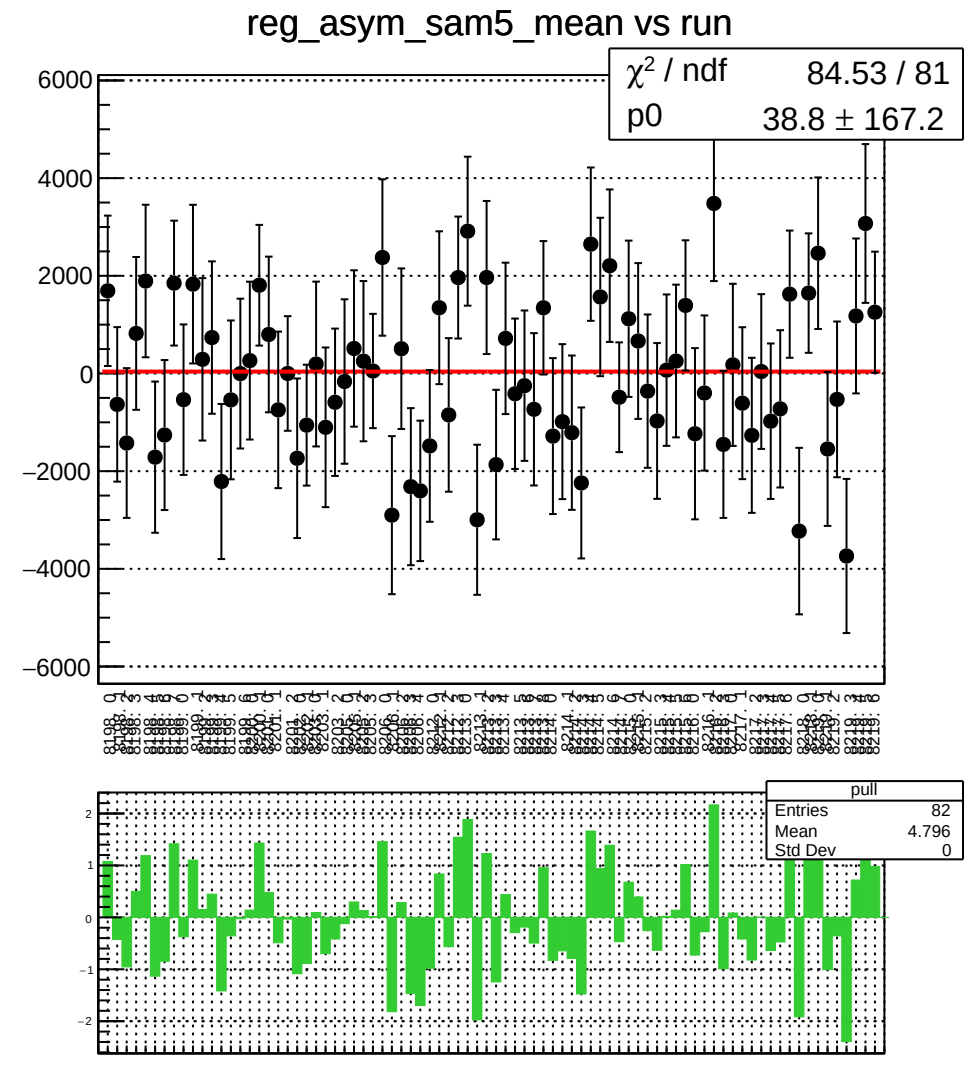

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.914e+04 / 81
p0 176.9 ± 0.142
280
260
240
220
200
180
160
140
120

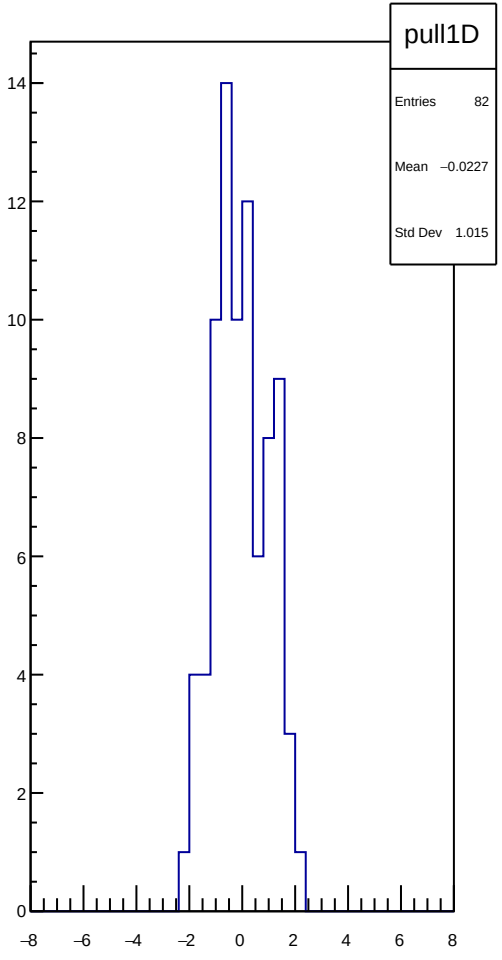

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76 / 81
p0 −0.2482 ± 0.2008
pull
Entries 82
Mean 64.45
Std Dev 0
pull1D
Entries 82
Mean 0.0233
Std Dev 0.9624

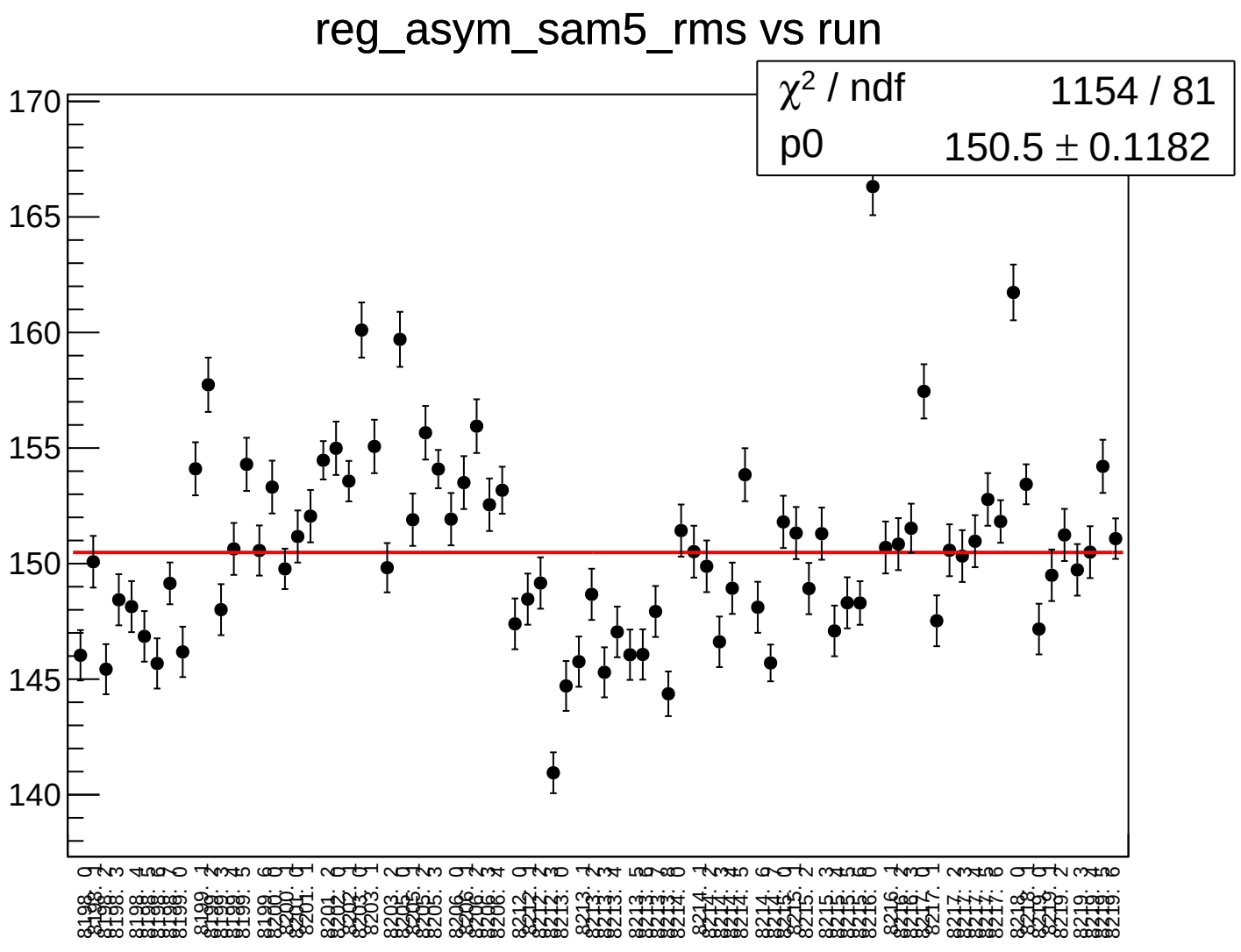

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.914e+04 / 81
p0 176.9 ± 0.142
280
260
240
220
200
180
160
140
120

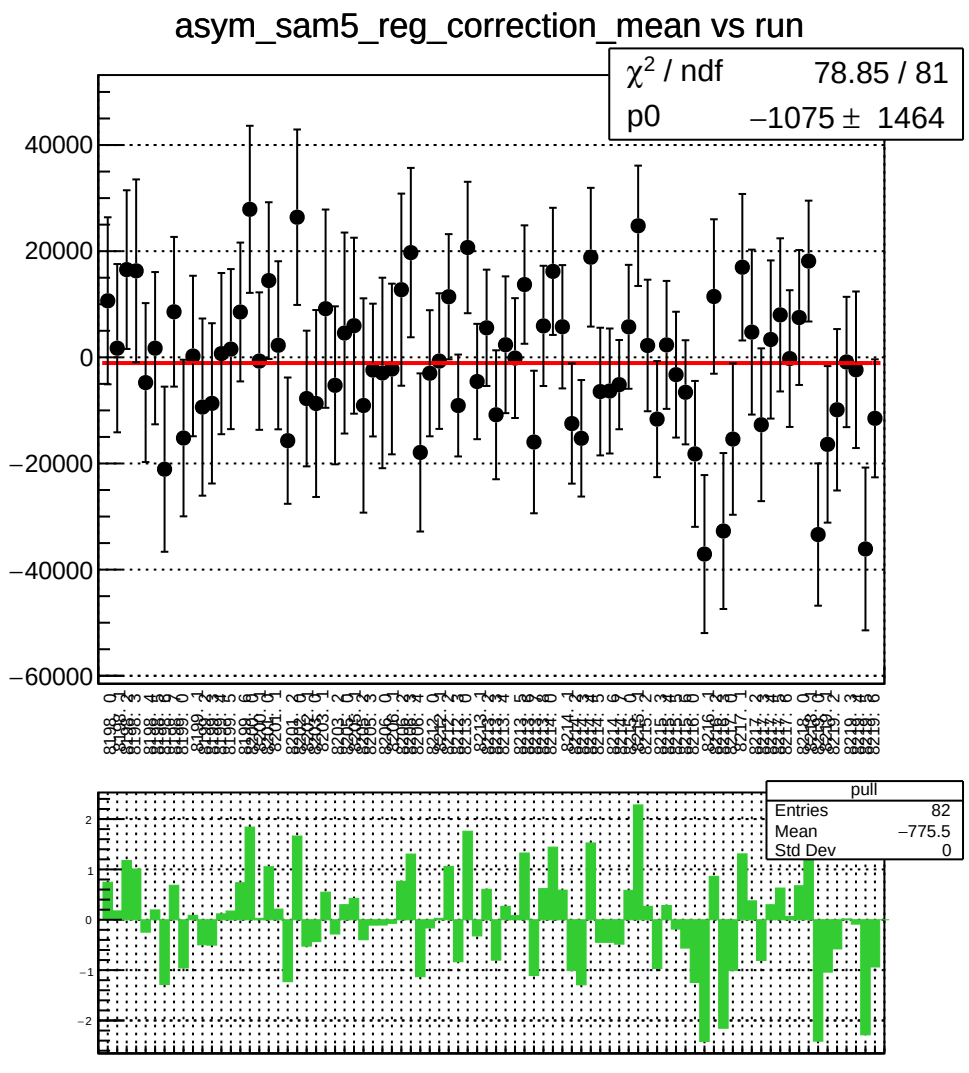

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.95 / 81
p0 2.653e−13 ± 2.891e−13
20
10
0
−10
−20
pull
Entries 82
Mean 47.17
Std Dev 32.29
3
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.1075
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

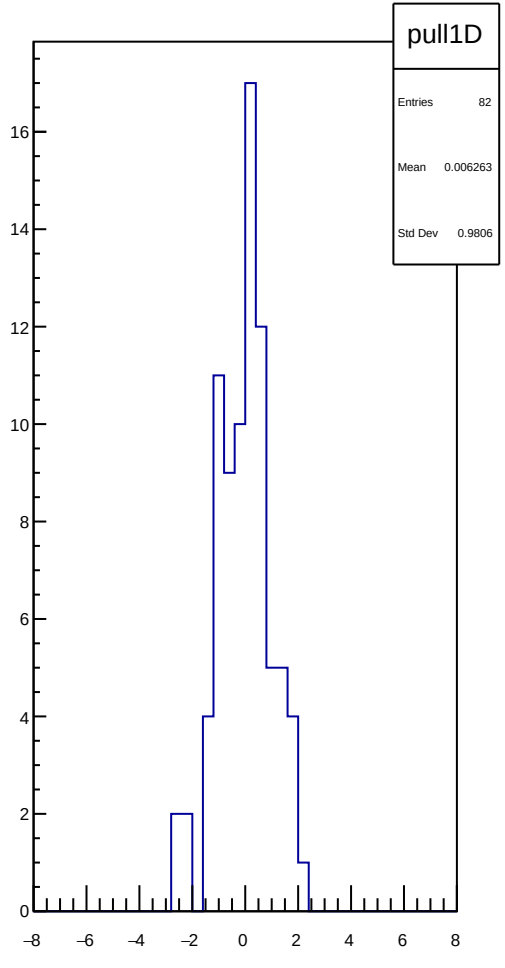

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.39e+05 / 81
p0 2.223e−10 ± 2.044e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

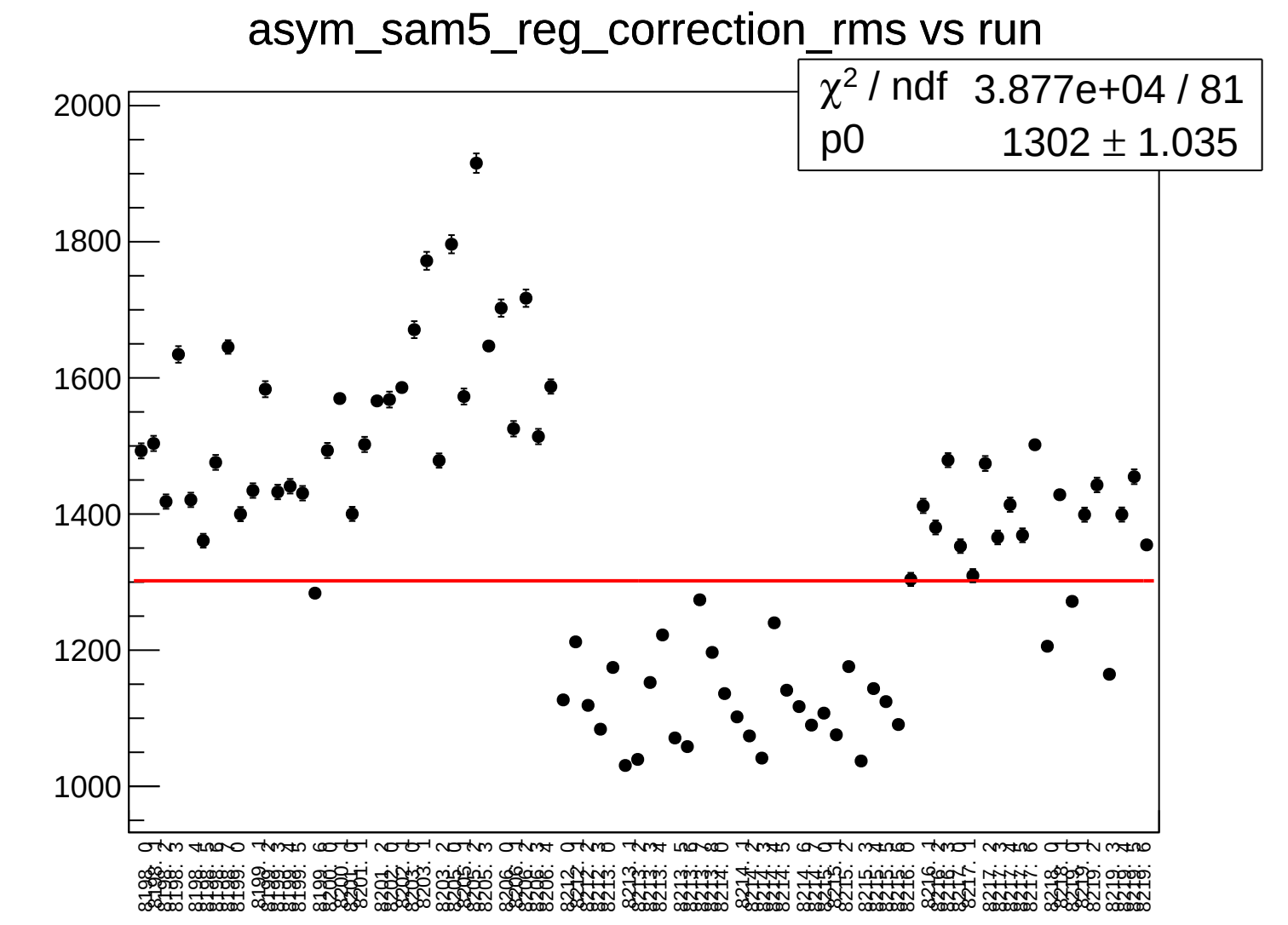

reg_asym_sam5_mean vs run
χ² / ndf 84.53 / 81
p0 38.8 ± 167.2
pull
Entries 82
Mean 4.796
Std Dev 0

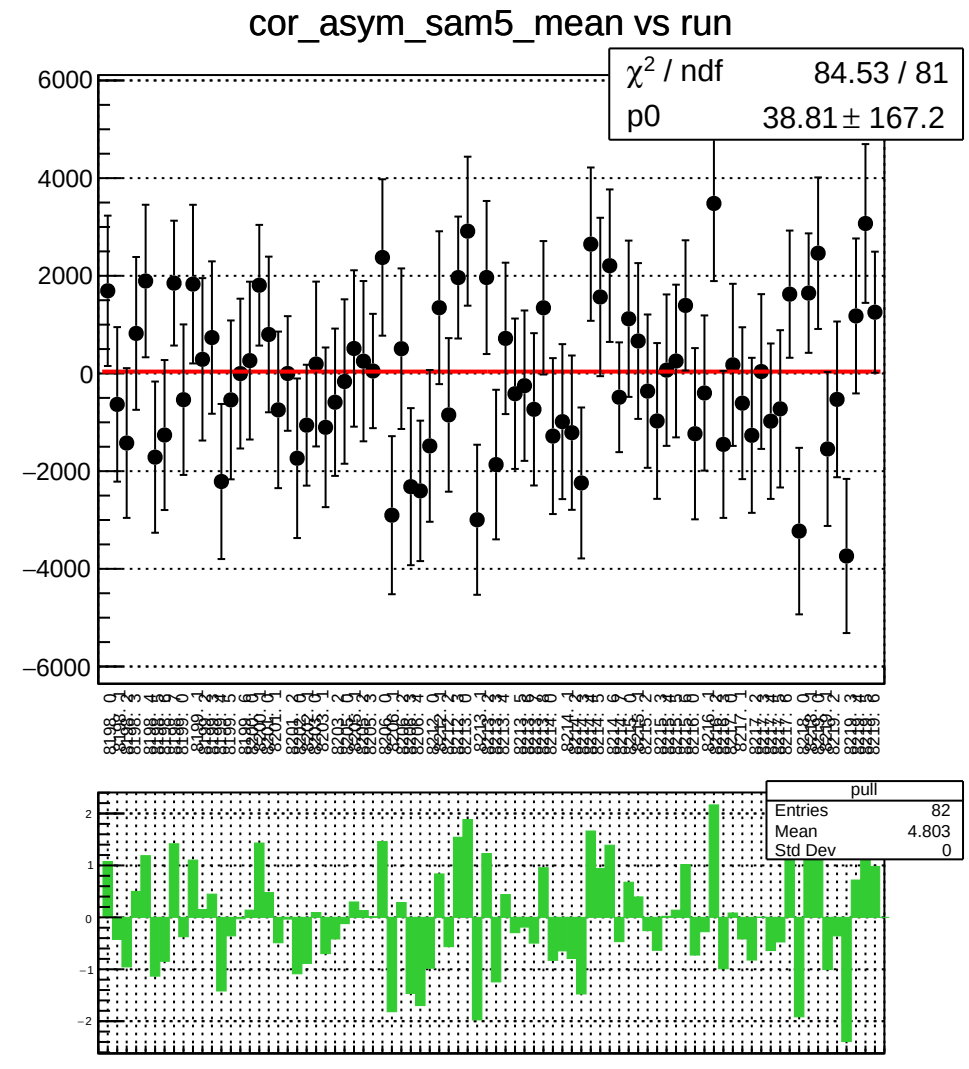

pull1D
Entries 82
Mean −0.0227
Std Dev 1.015

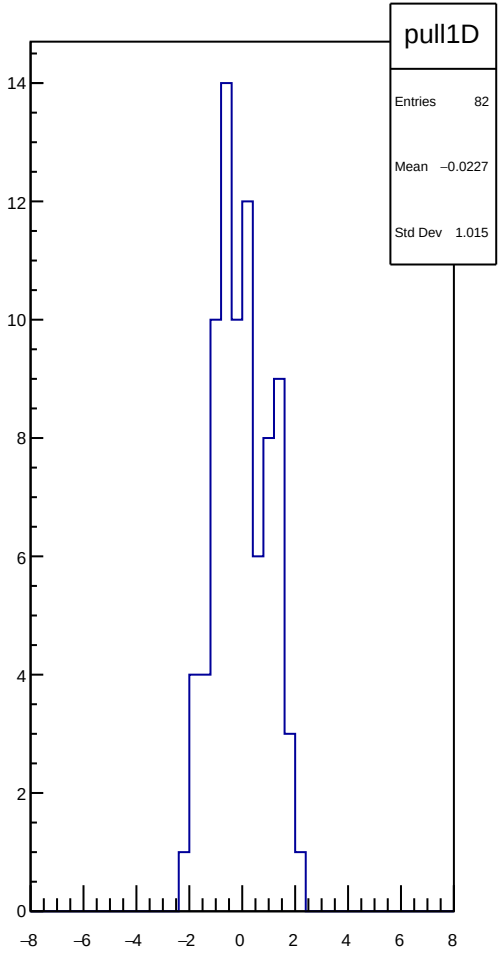

reg_asym_sam5_rms vs run
χ² / ndf 1154 / 81
p0 150.5 ± 0.1182
170
165
160
155
150
145
140

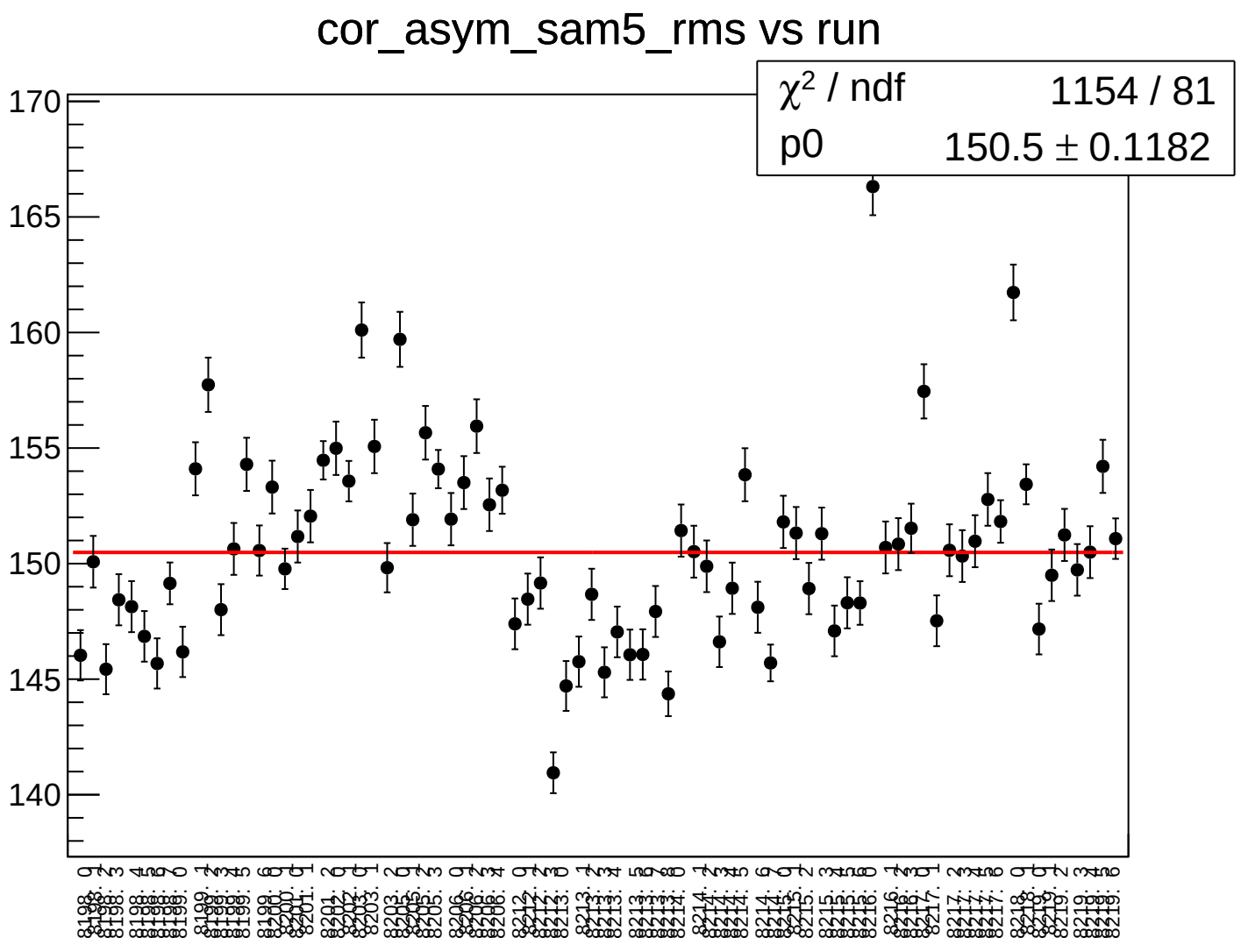

asym_sam5_reg_correction_mean vs run
χ² / ndf 78.85 / 81
p0 −1075 ± 1464
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −775.5
Std Dev 0
2
1
0
−1
−2

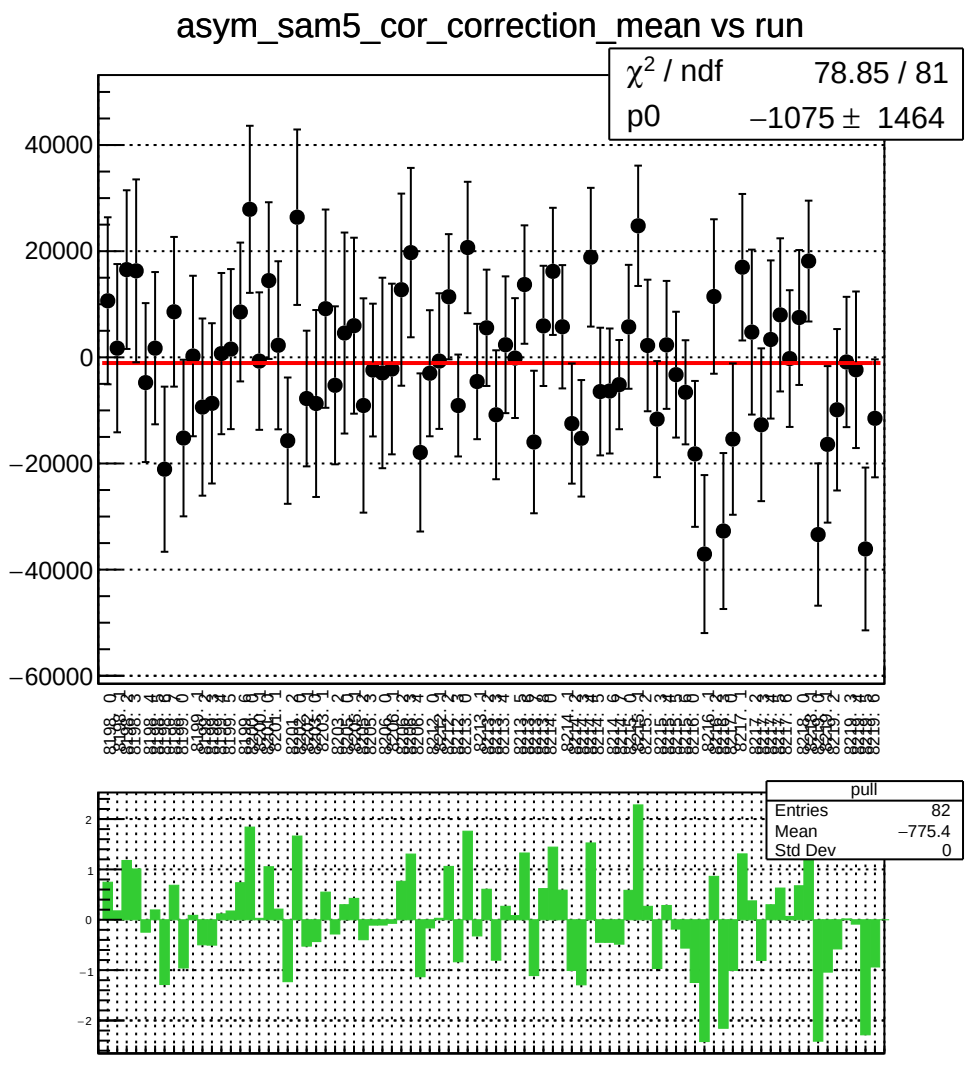

pull1D
Entries 82
Mean 0.006263
Std Dev 0.9806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

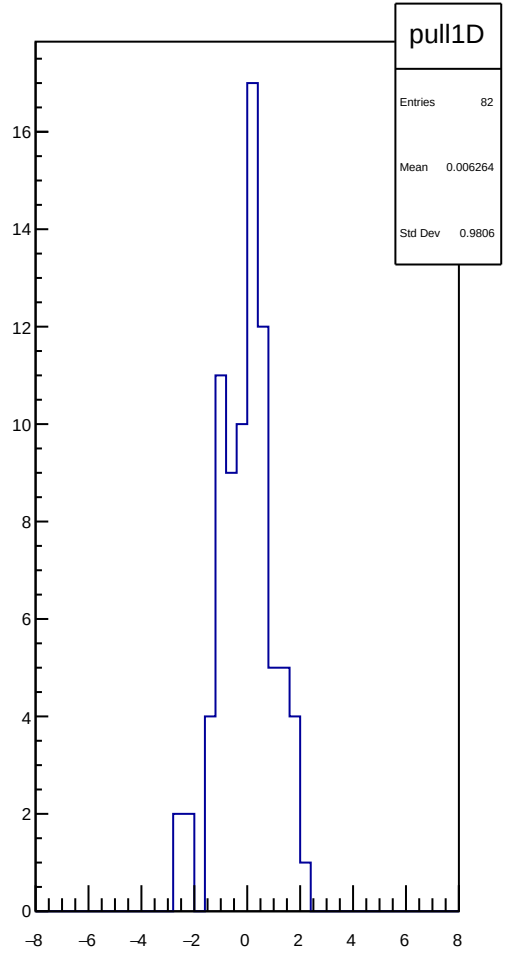

asym_sam5_reg_correction_rms vs run
χ² / ndf 3.877e+04 / 81
p0 1302 ± 1.035
2000
1800
1600
1400
1200
1000

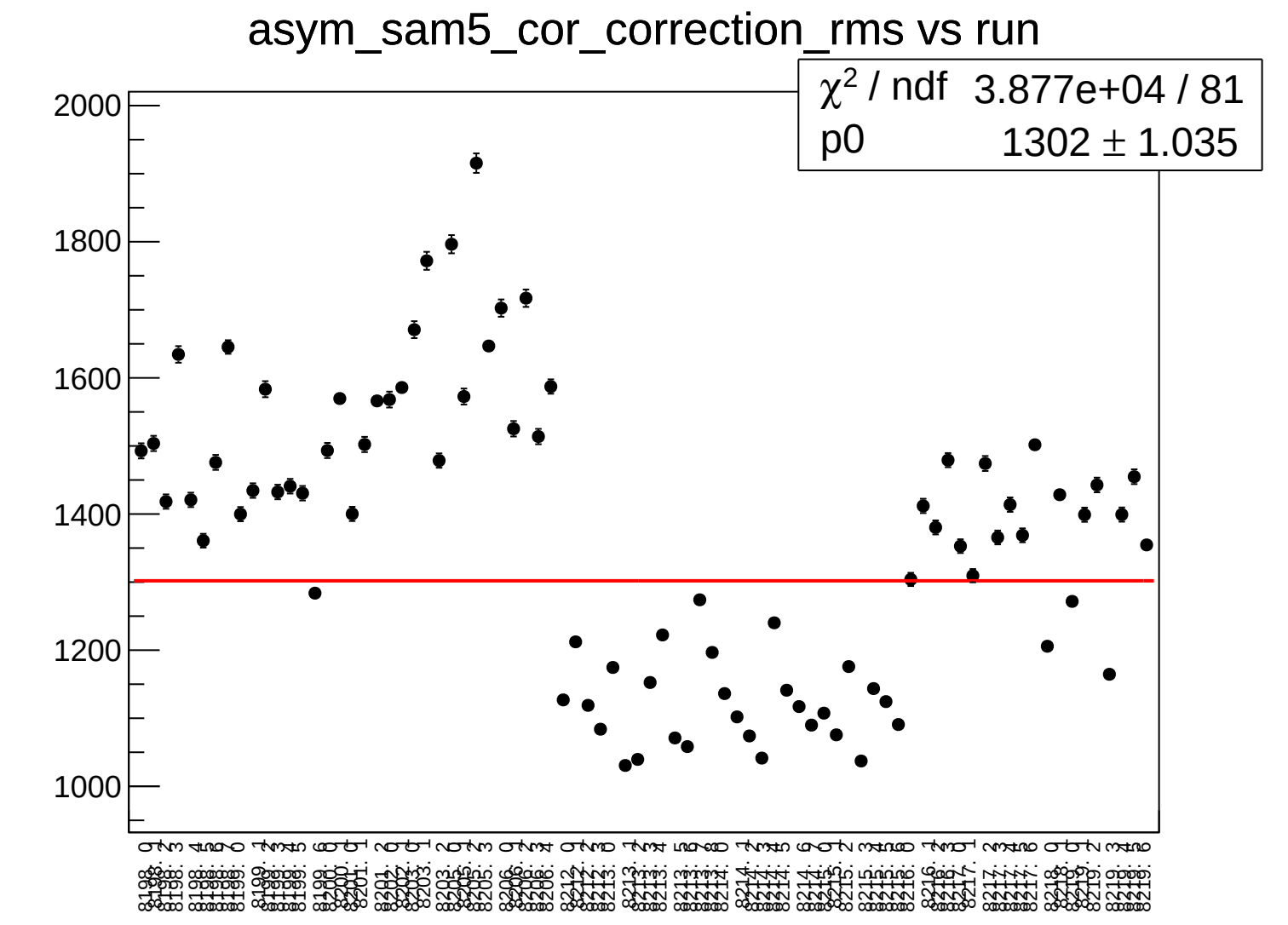

cor_asym_sam5_mean vs run
χ² / ndf 84.53 / 81
p0 38.81 ± 167.2
pull
Entries 82
Mean 4.803
Std Dev 0

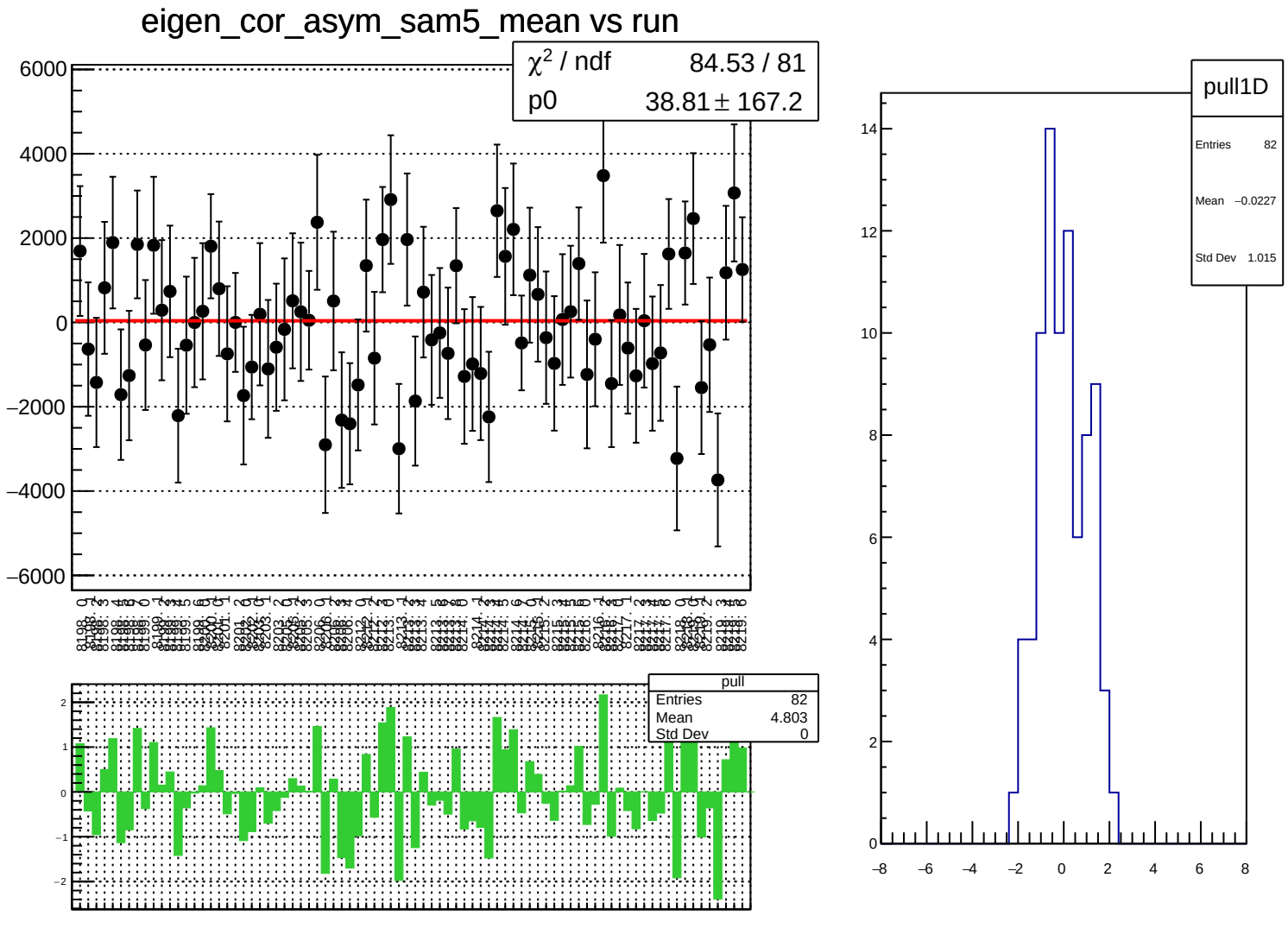

pull1D
Entries 82
Mean −0.0227
Std Dev 1.015

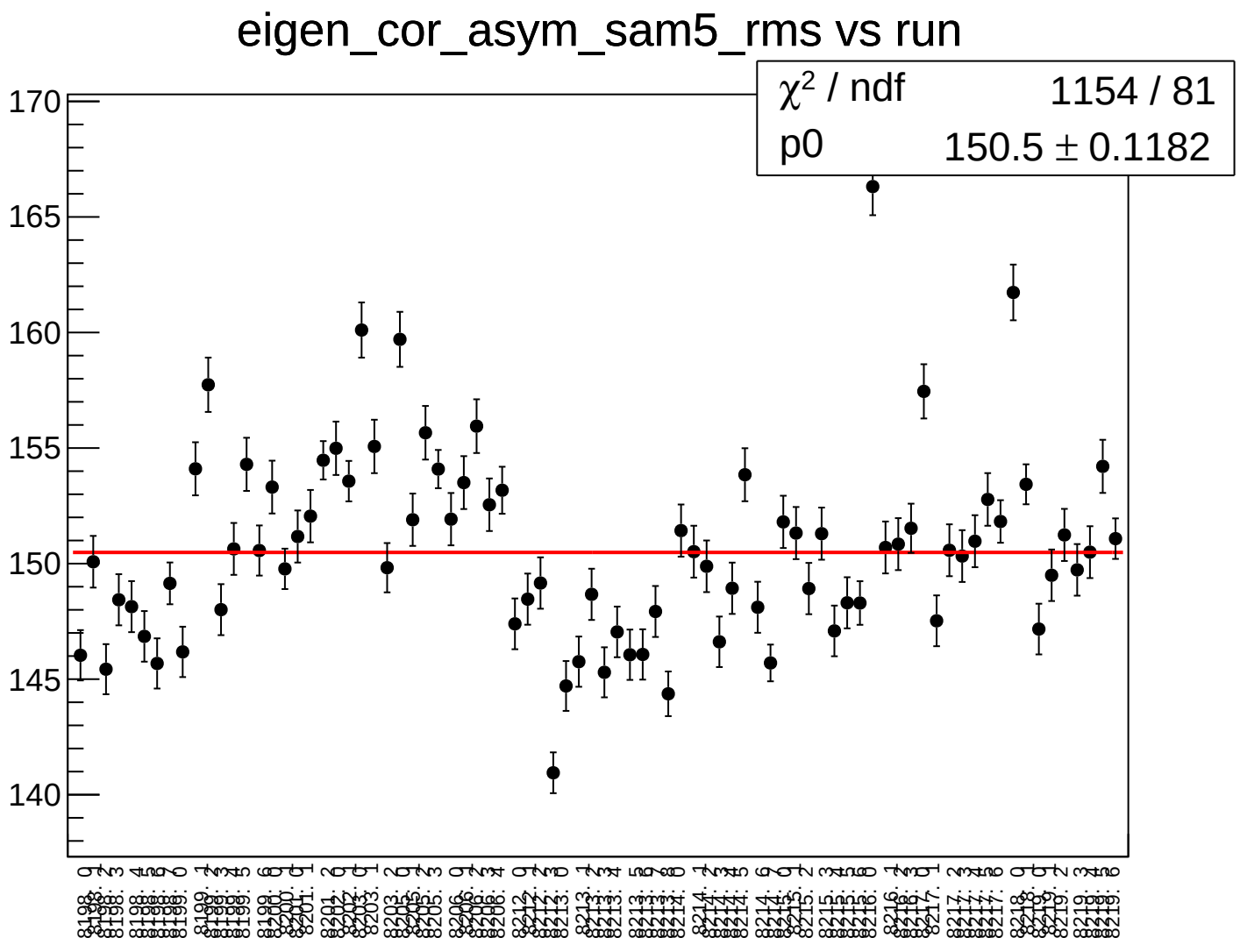

cor_asym_sam5_rms vs run
χ² / ndf 1154 / 81
p0 150.5 ± 0.1182
170
165
160
155
150
145
140

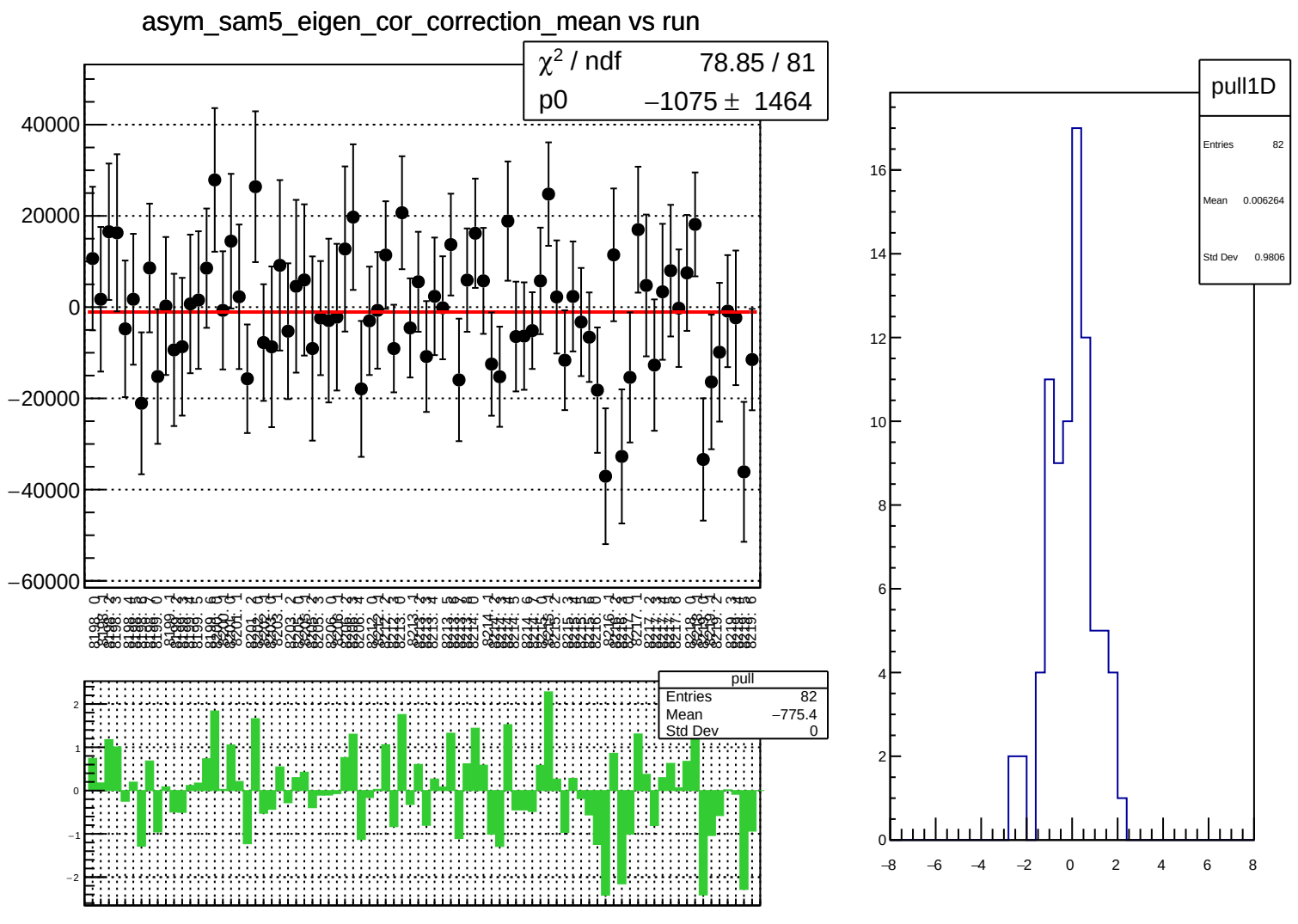

asym_sam5_cor_correction_mean vs run
χ² / ndf 78.85 / 81
p0 −1075 ± 1464
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −775.4
Std Dev 0
2
1
0
−1
−2

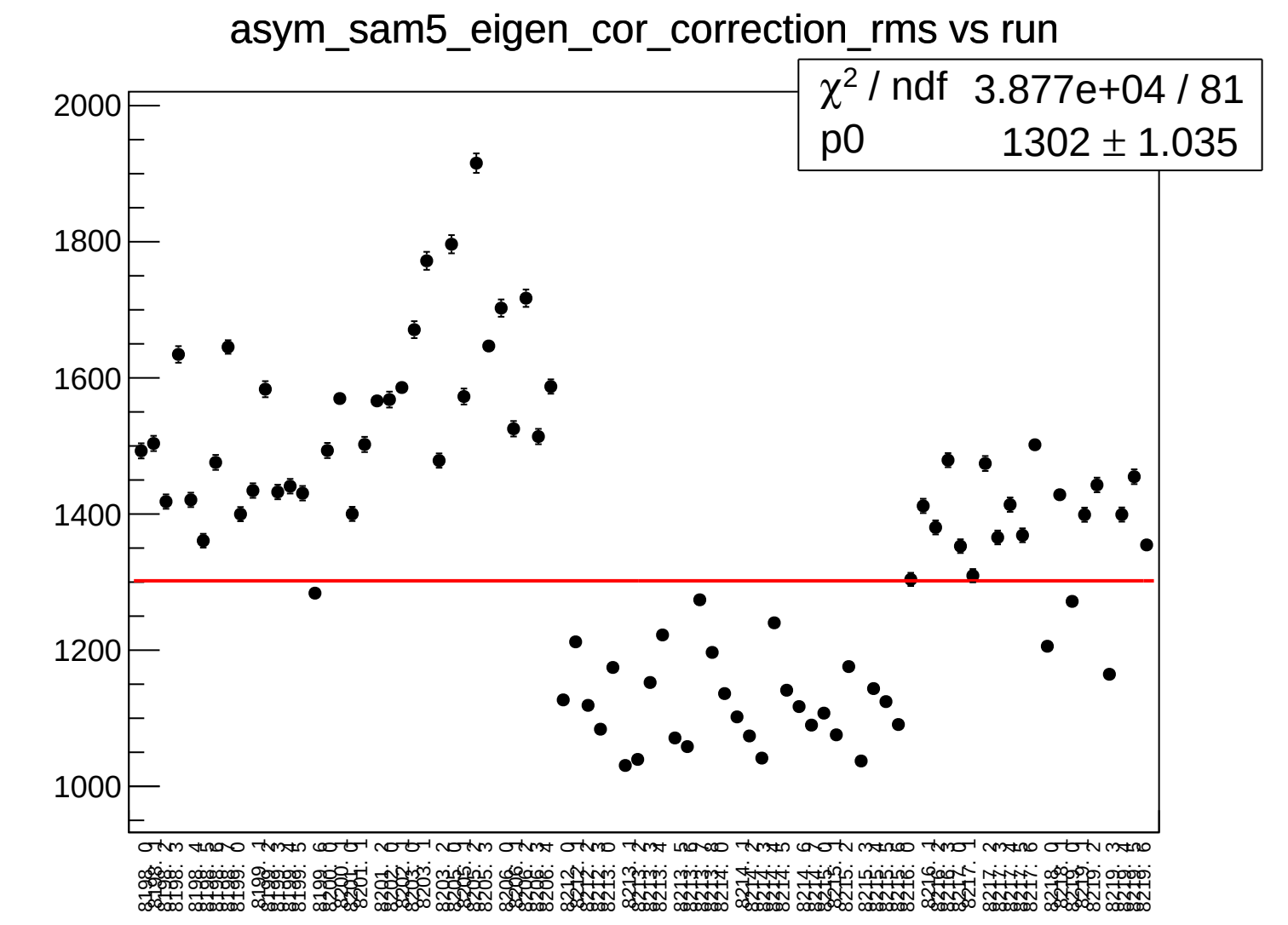

pull1D
Entries 82
Mean 0.006264
Std Dev 0.9806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

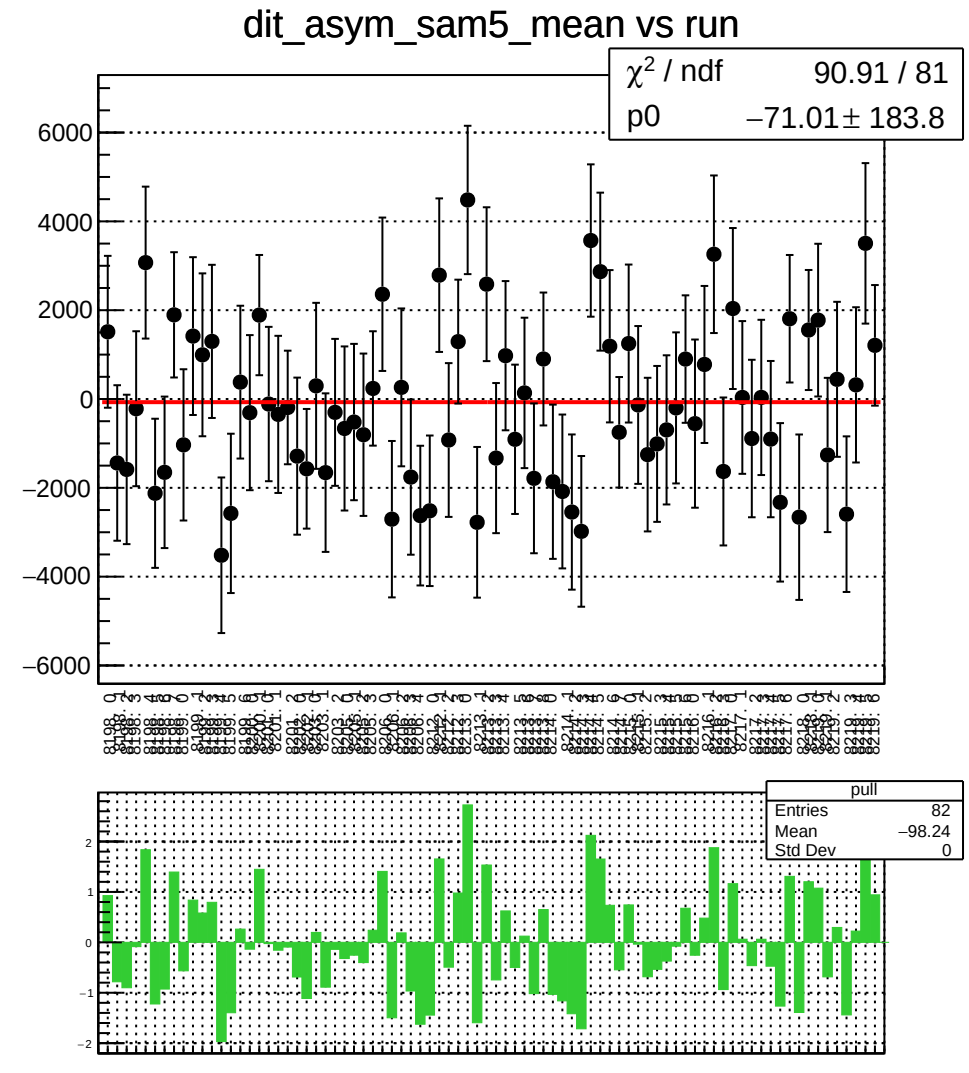

asym_sam5_cor_correction_rms vs run
χ² / ndf 3.877e+04 / 81
p0 1302 ± 1.035
2000
1800
1600
1400
1200
1000

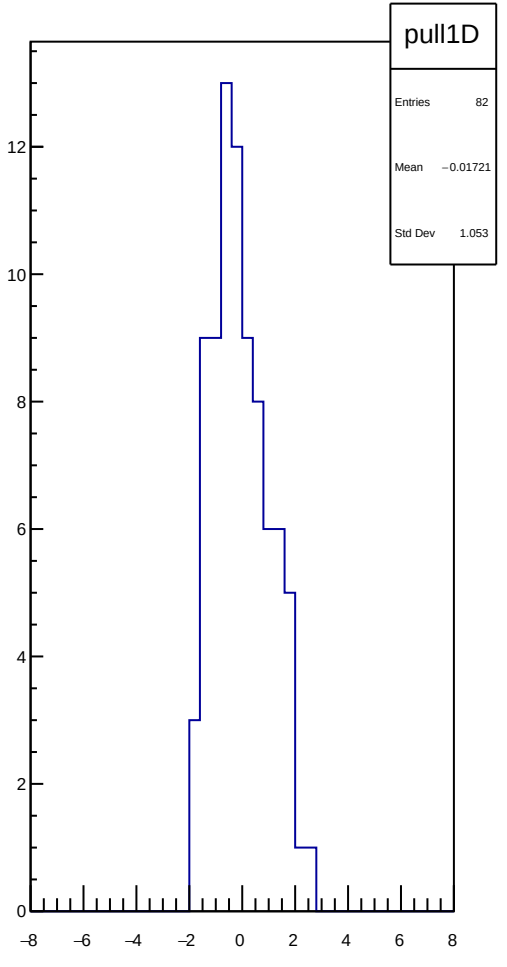

eigen_cor_asym_sam5_mean vs run
χ² / ndf 84.53 / 81
p0 38.81 ± 167.2
pull
Entries 82
Mean 4.803
Std Dev 0
pull1D
Entries 82
Mean −0.0227
Std Dev 1.015

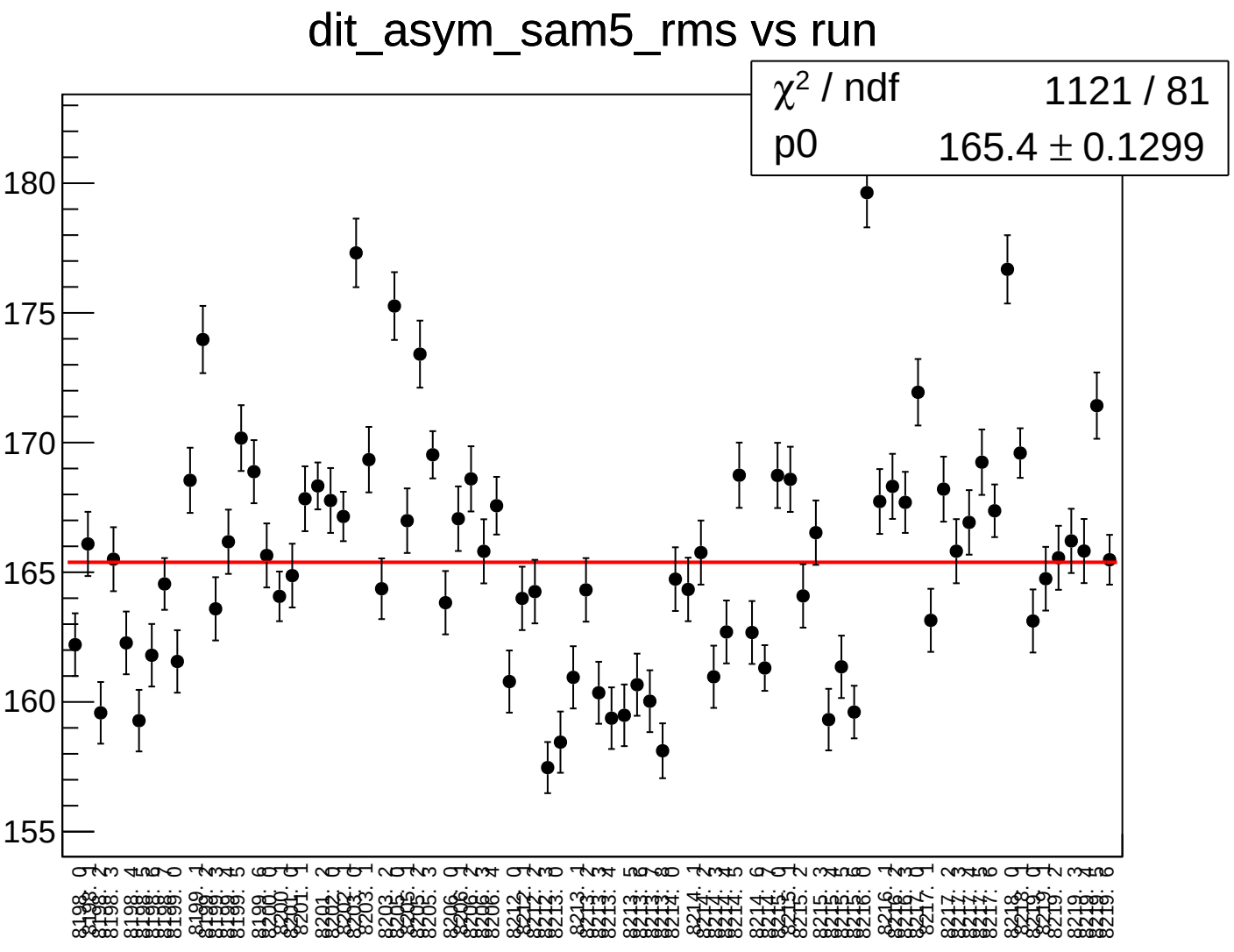

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1154 / 81
p0 150.5 ± 0.1182
170
165
160
155
150
145
140

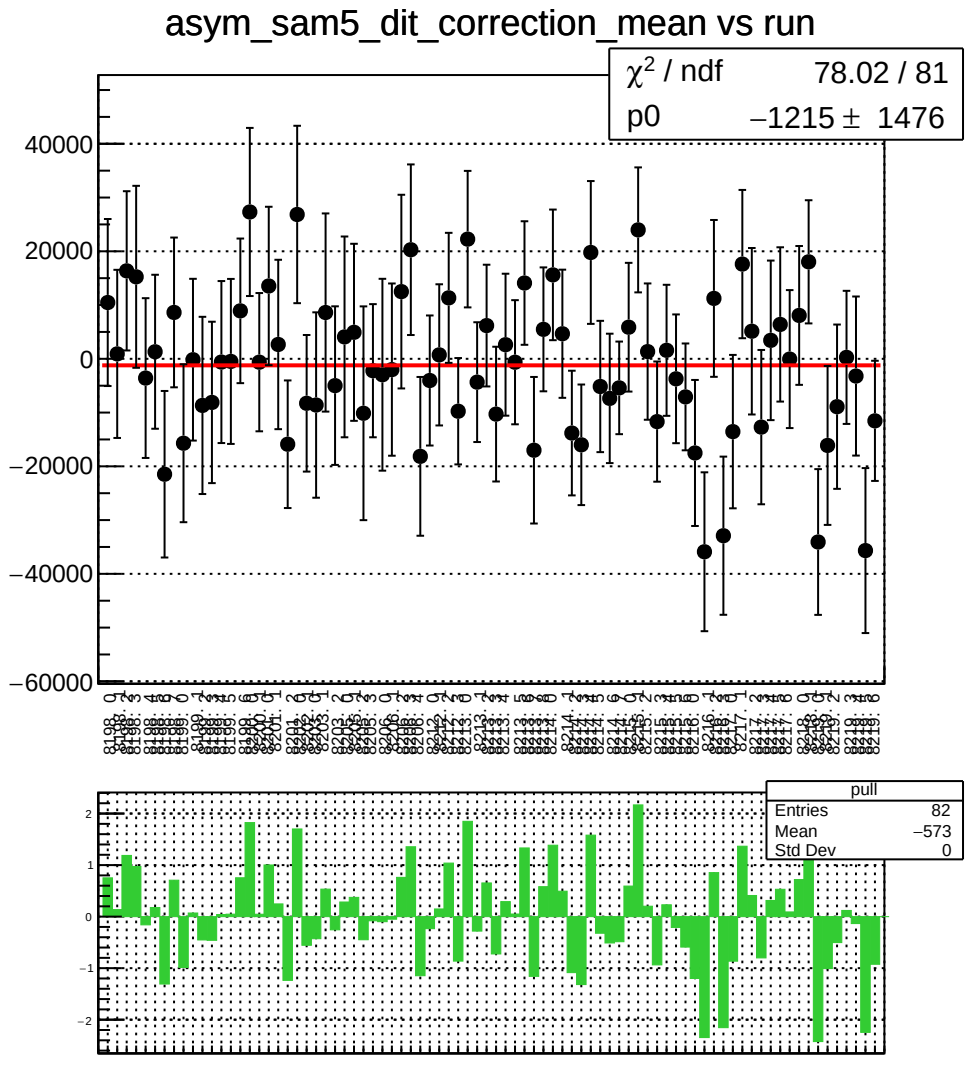

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 78.85 / 81
p0 −1075 ± 1464
pull
Entries 82
Mean −775.4
Std Dev 0
pull1D
Entries 82
Mean 0.006264
Std Dev 0.9806

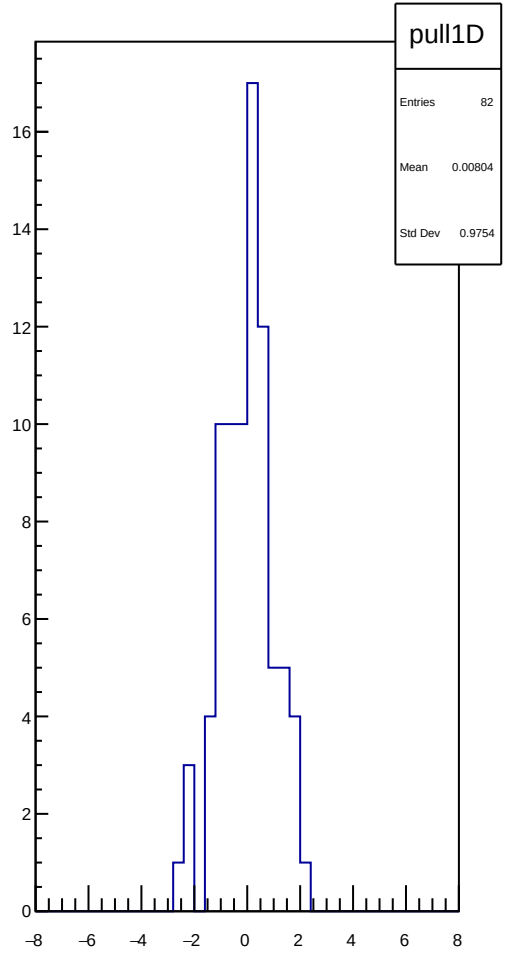

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 3.877e+04 / 81
p0 1302 ± 1.035
2000
1800
1600
1400
1200
1000

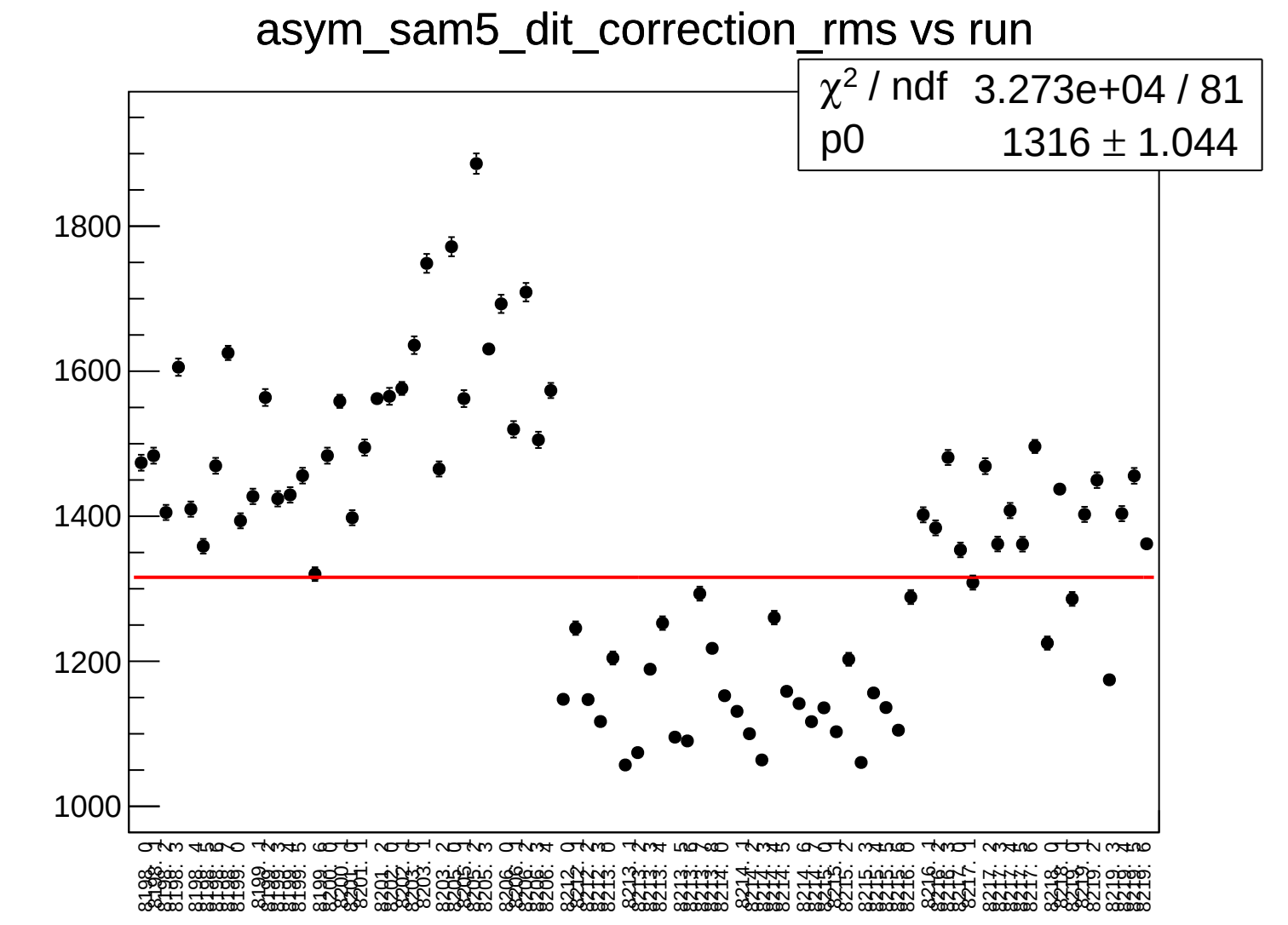

dit_asym_sam5_mean vs run
χ² / ndf 90.91 / 81
p0 −71.01± 183.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −98.24
Std Dev 0
2
1
0
−1
−2

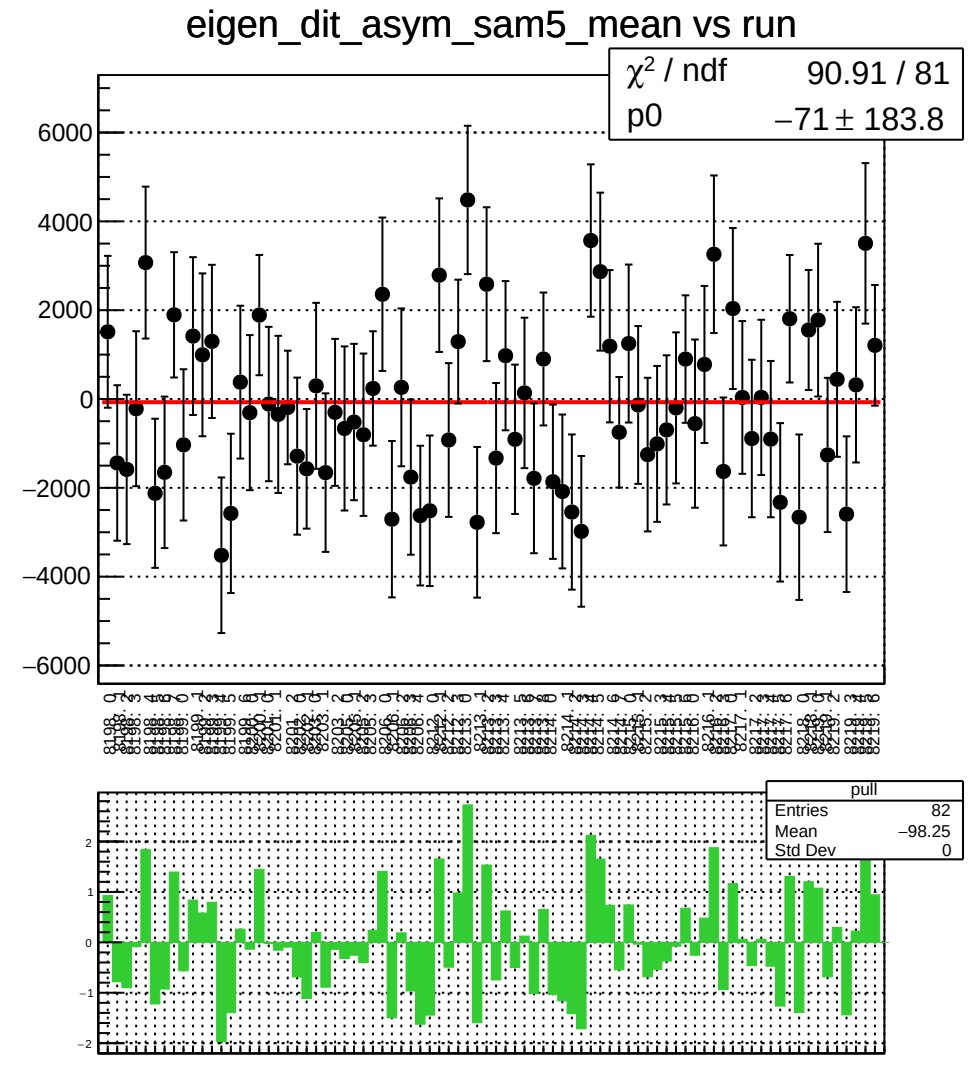

pull1D
Entries 82
Mean −0.01721
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

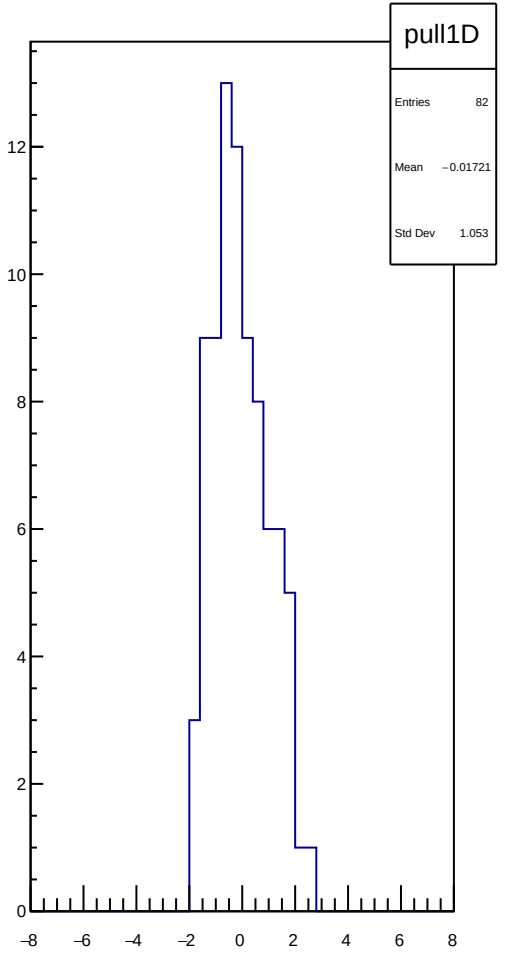

dit_asym_sam5_rms vs run
χ² / ndf 1121 / 81
p0 165.4 ± 0.1299
180
175
170
165
160
155

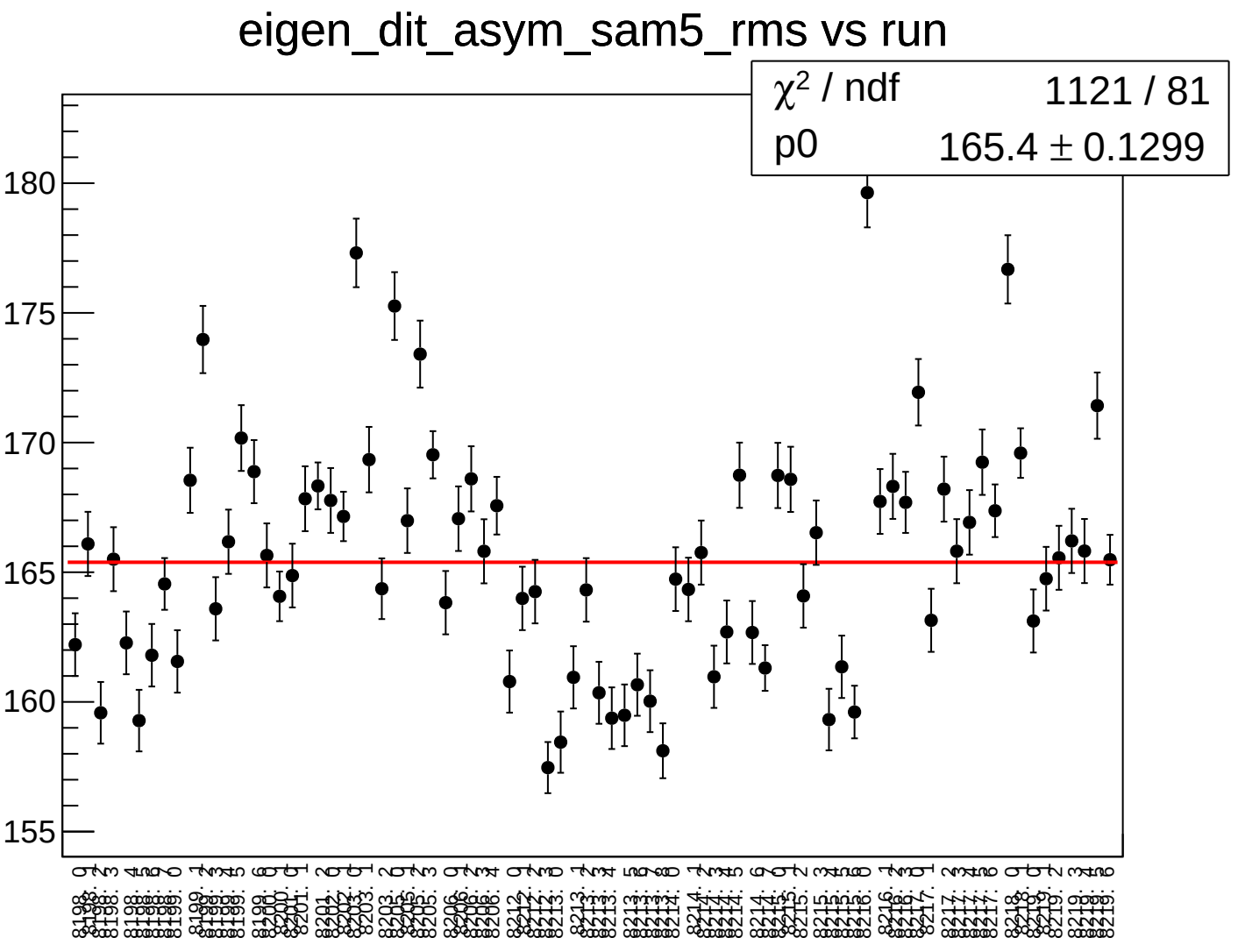

asym_sam5_dit_correction_mean vs run
χ² / ndf 78.02 / 81
p0 −1215 ± 1476
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −573
Std Dev 0
2
1
0
−1
−2

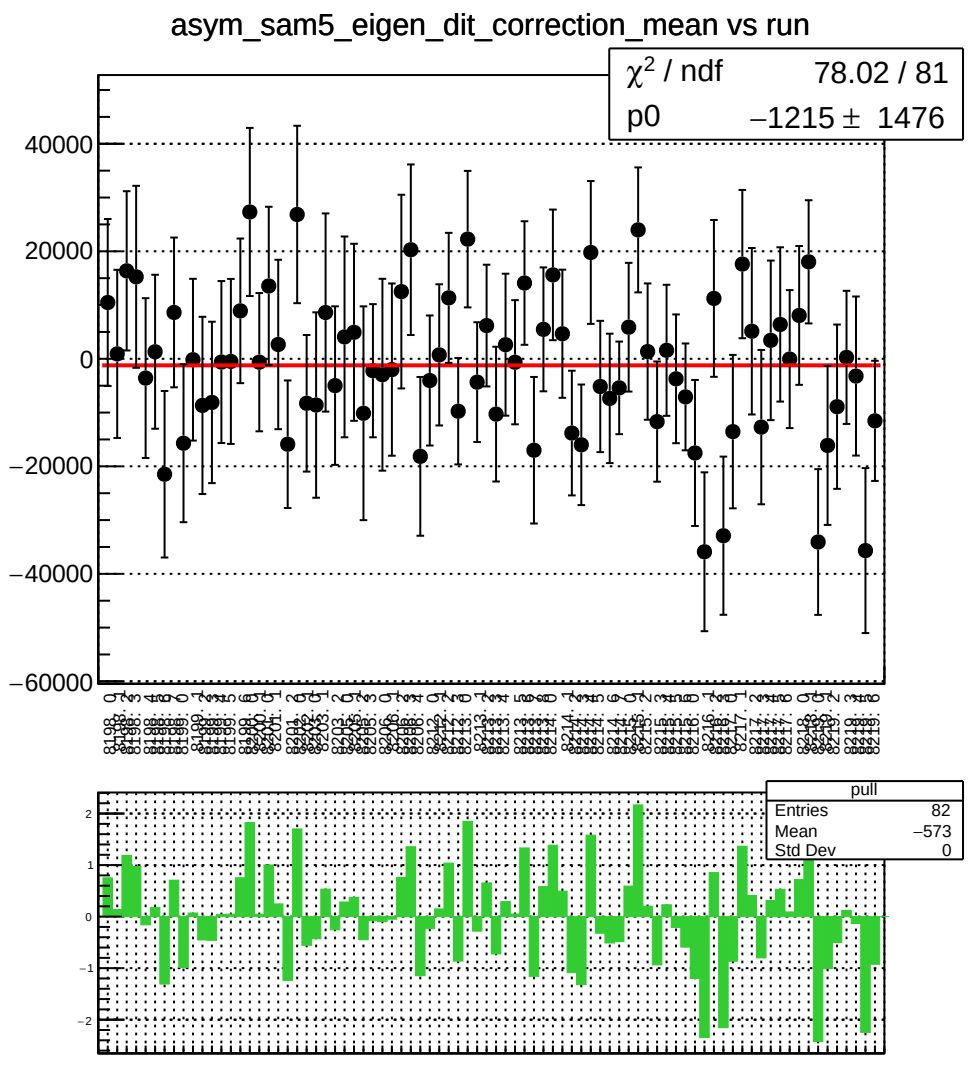

pull1D
Entries 82
Mean 0.00804
Std Dev 0.9754
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

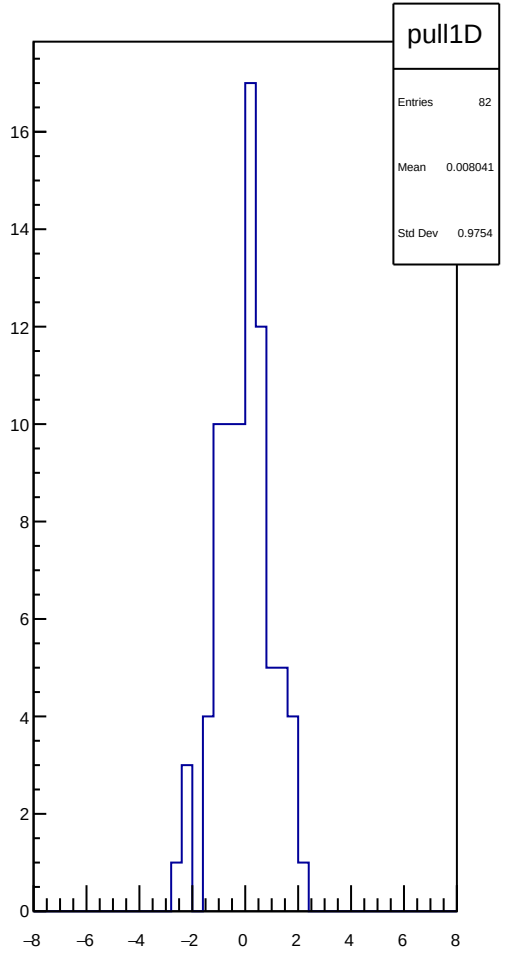

asym_sam5_dit_correction_rms vs run
χ² / ndf 3.273e+04 / 81
p0 1316 ± 1.044
1800
1600
1400
1200
1000

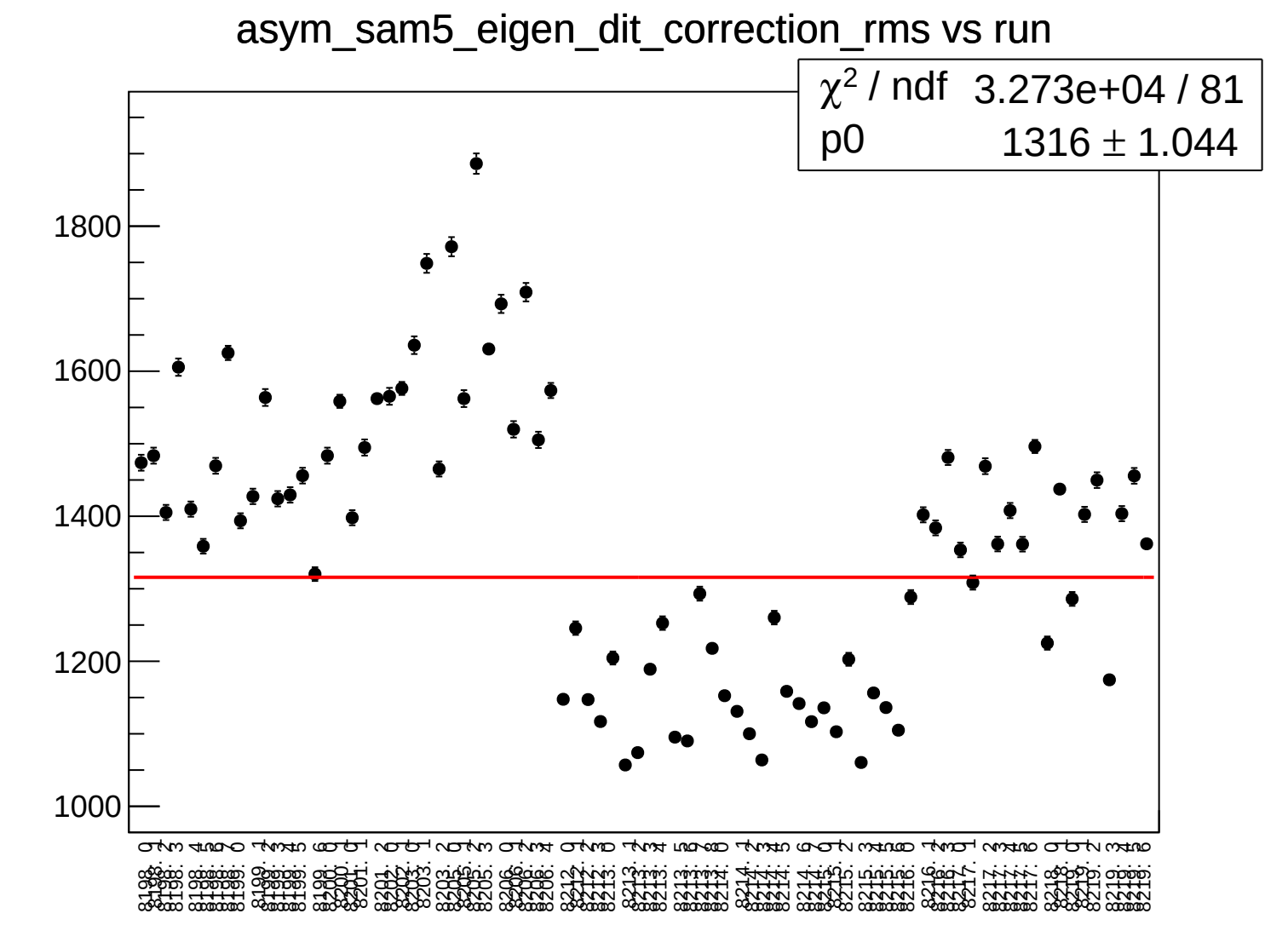

eigen_dit_asym_sam5_mean vs run
χ² / ndf 90.91 / 81
p0 −71 ± 183.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −98.25
Std Dev 0
2
1
0
−1
−2

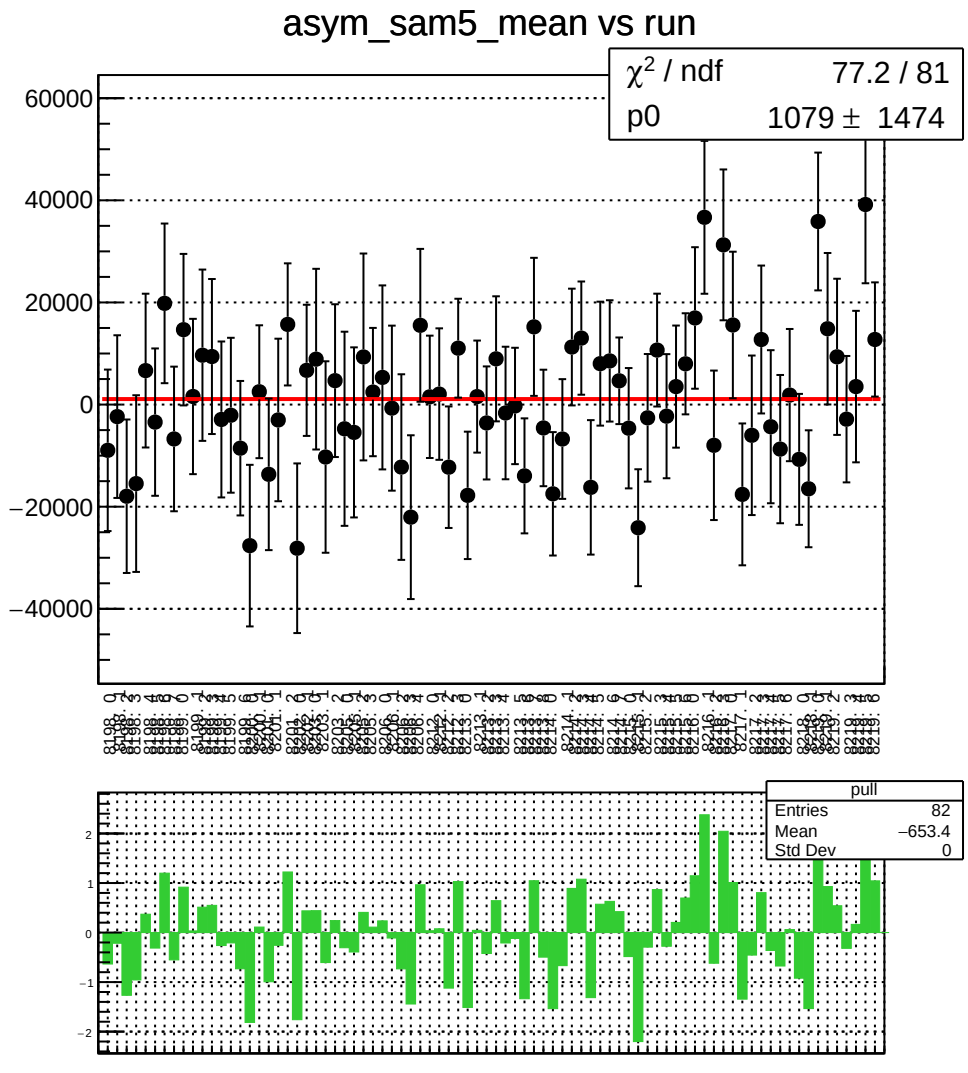

pull1D
Entries 82
Mean −0.01721
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

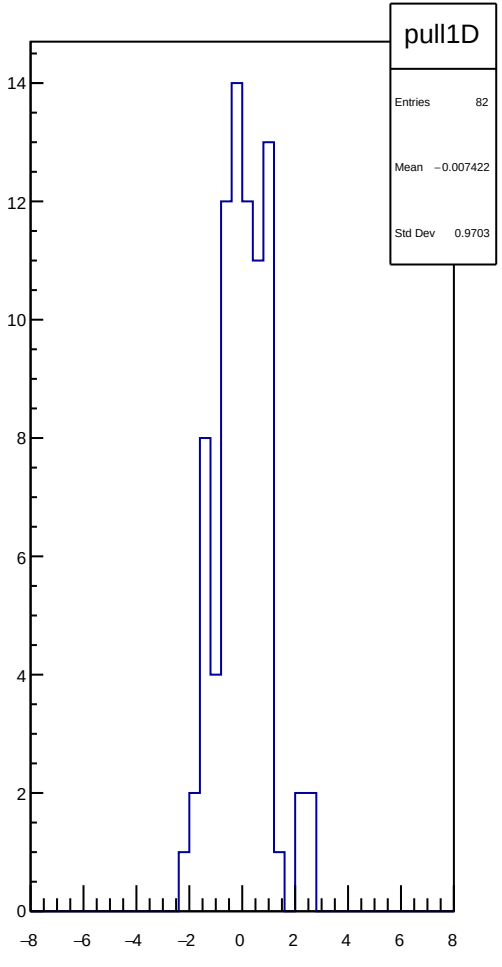

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1121 / 81
p0 165.4 ± 0.1299
180
175
170
165
160
155

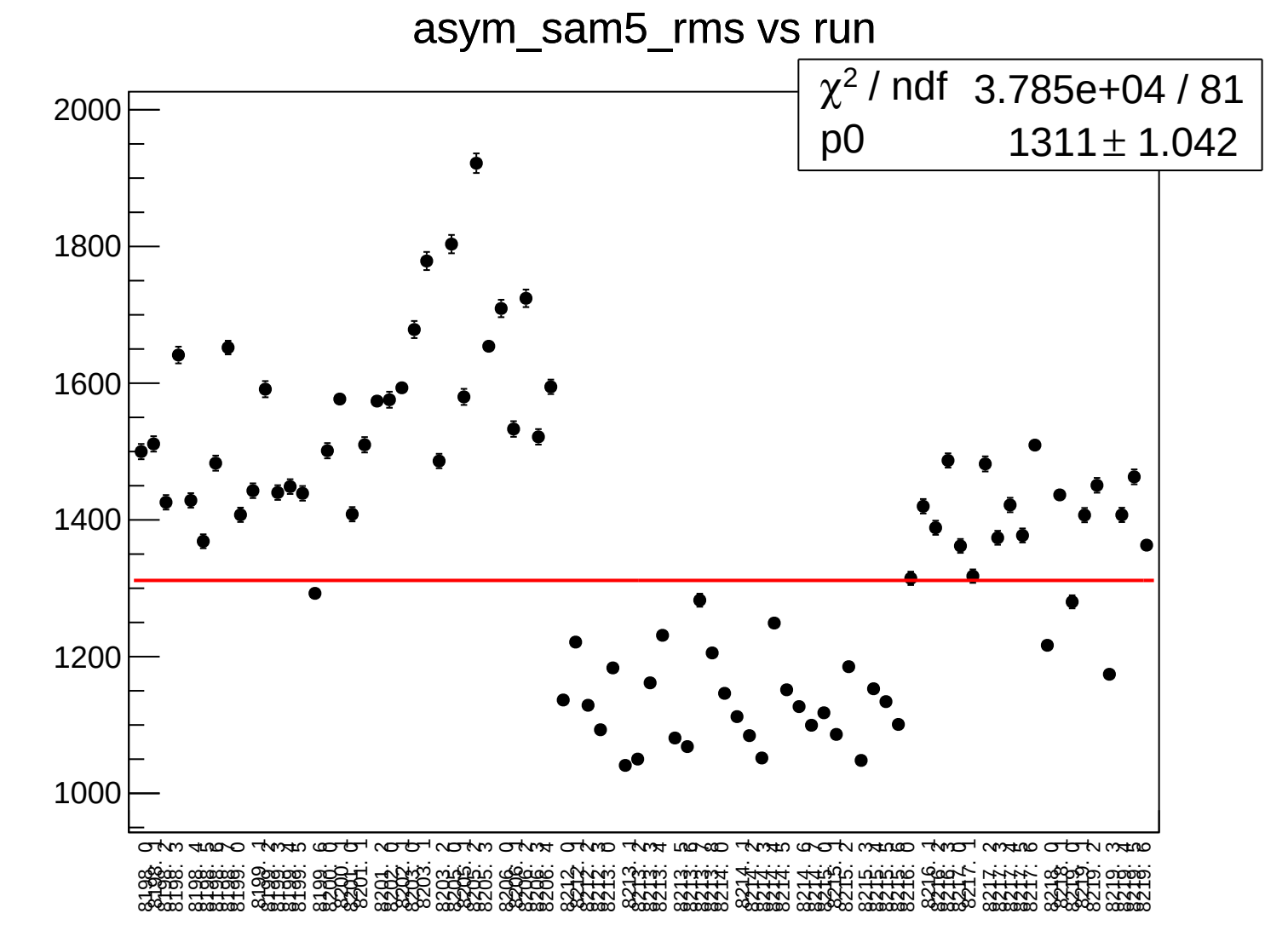

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 78.02 / 81
p0 −1215 ± 1476
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −573
Std Dev 0
2
1
0
−1
−2

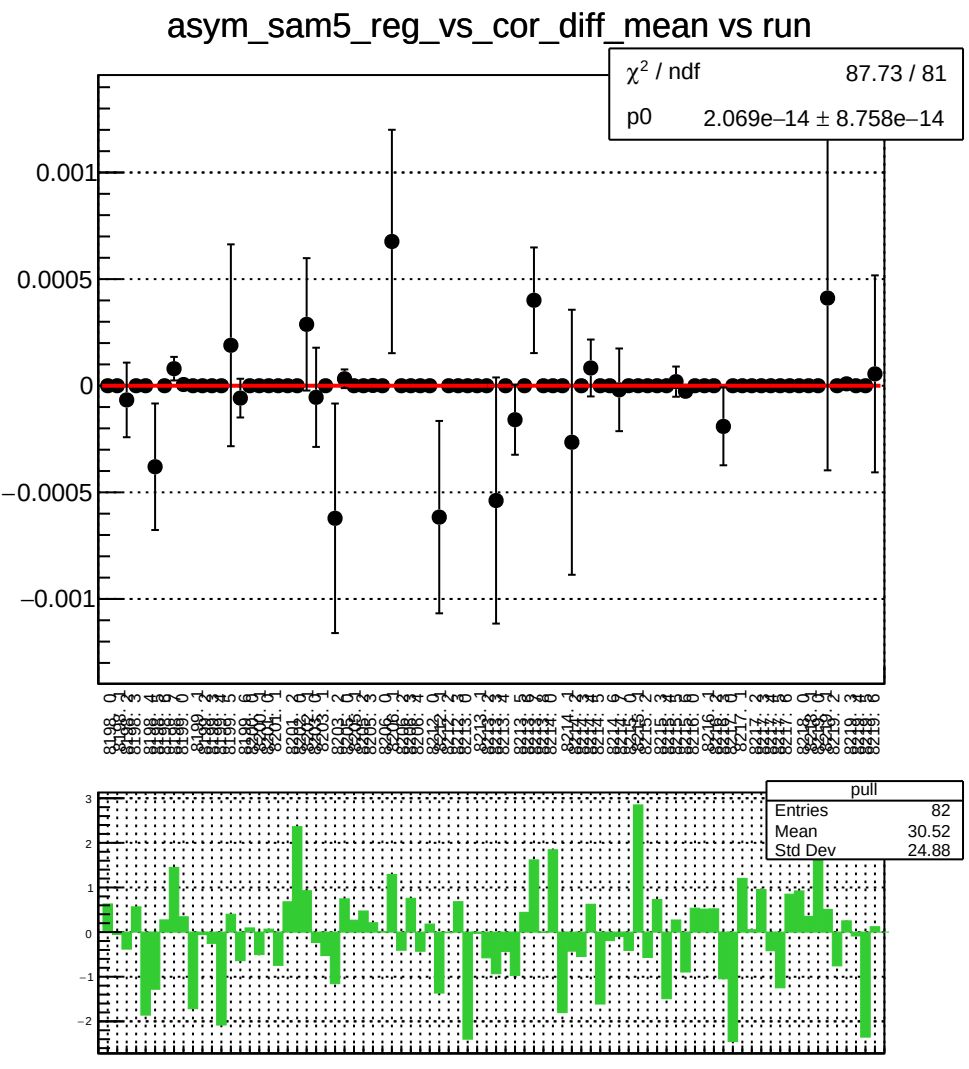

pull1D
Entries 82
Mean 0.008041
Std Dev 0.9754
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

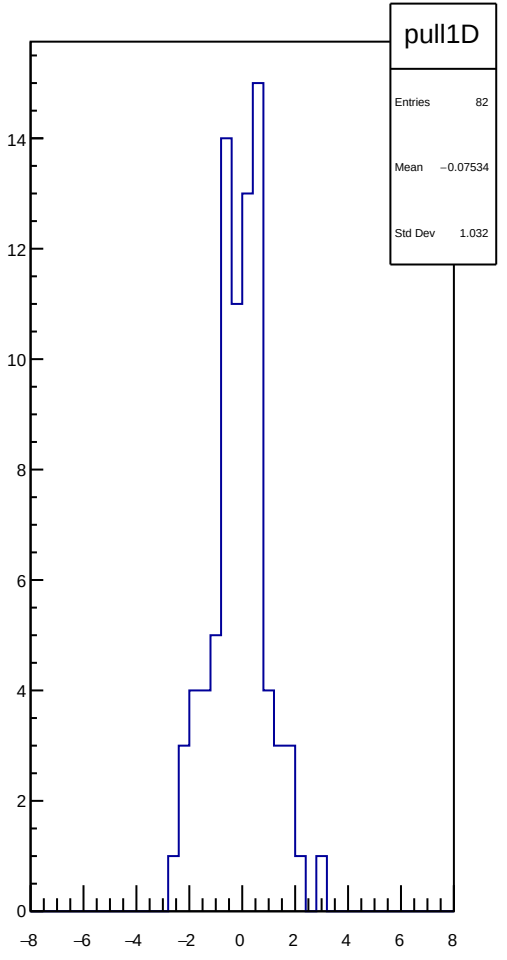

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 3.273e+04 / 81
p0 1316 ± 1.044
1800
1600
1400
1200
1000

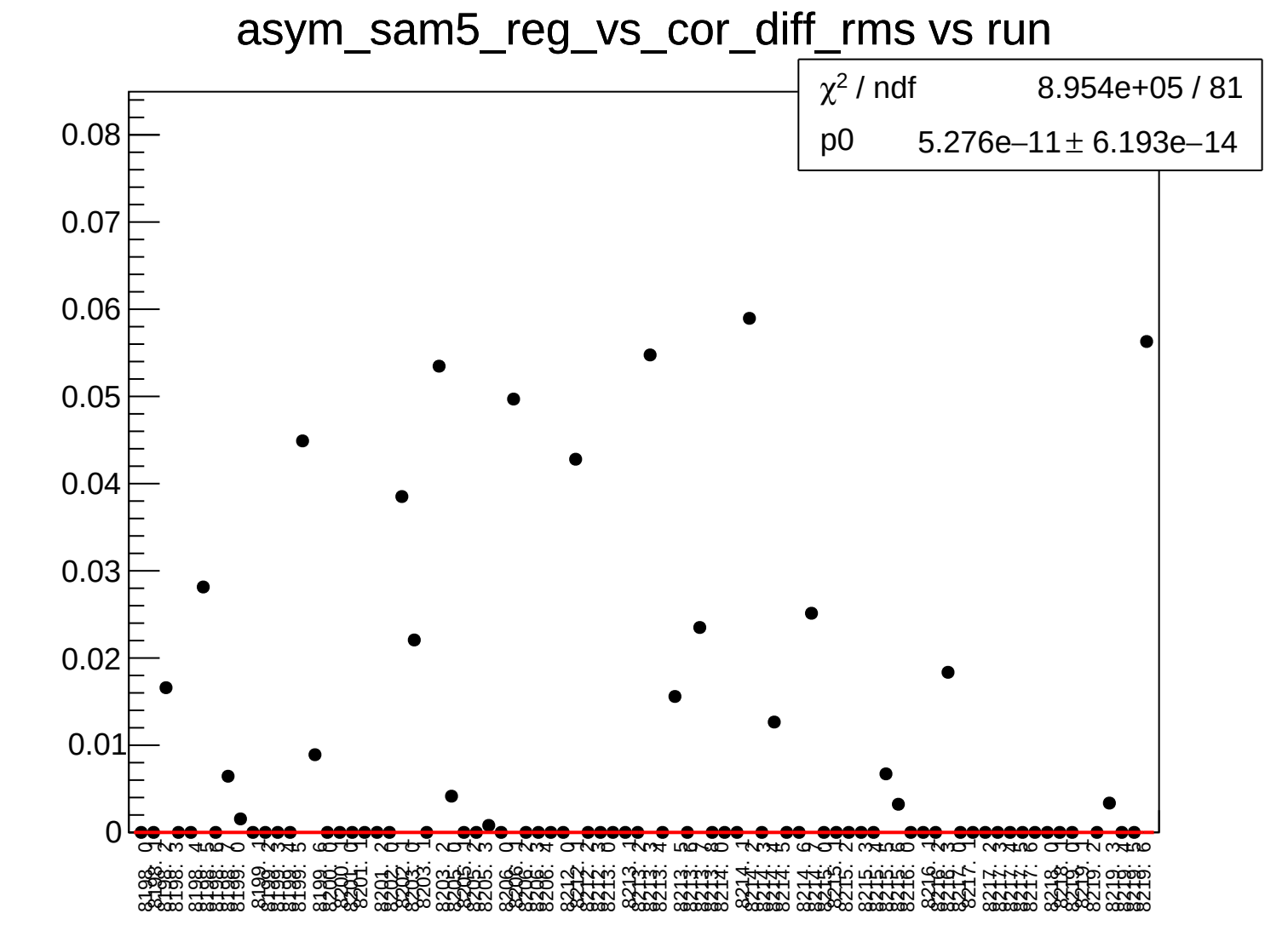

asym_sam5_mean vs run
χ² / ndf 77.2 / 81
p0 1079 ± 1474
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −653.4
Std Dev 0
2
1
0
−1
−2

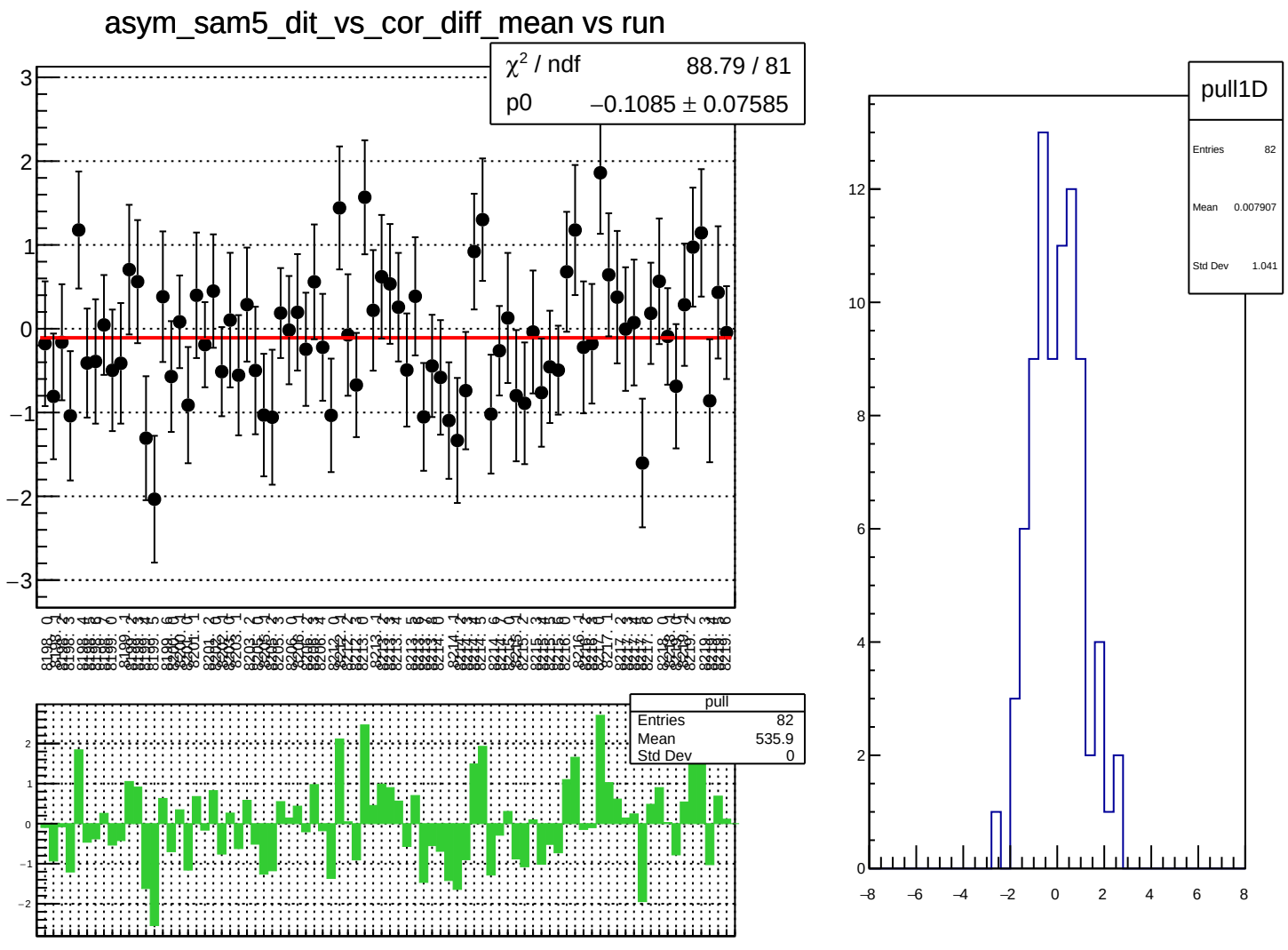

pull1D
Entries 82
Mean −0.007422
Std Dev 0.9703
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

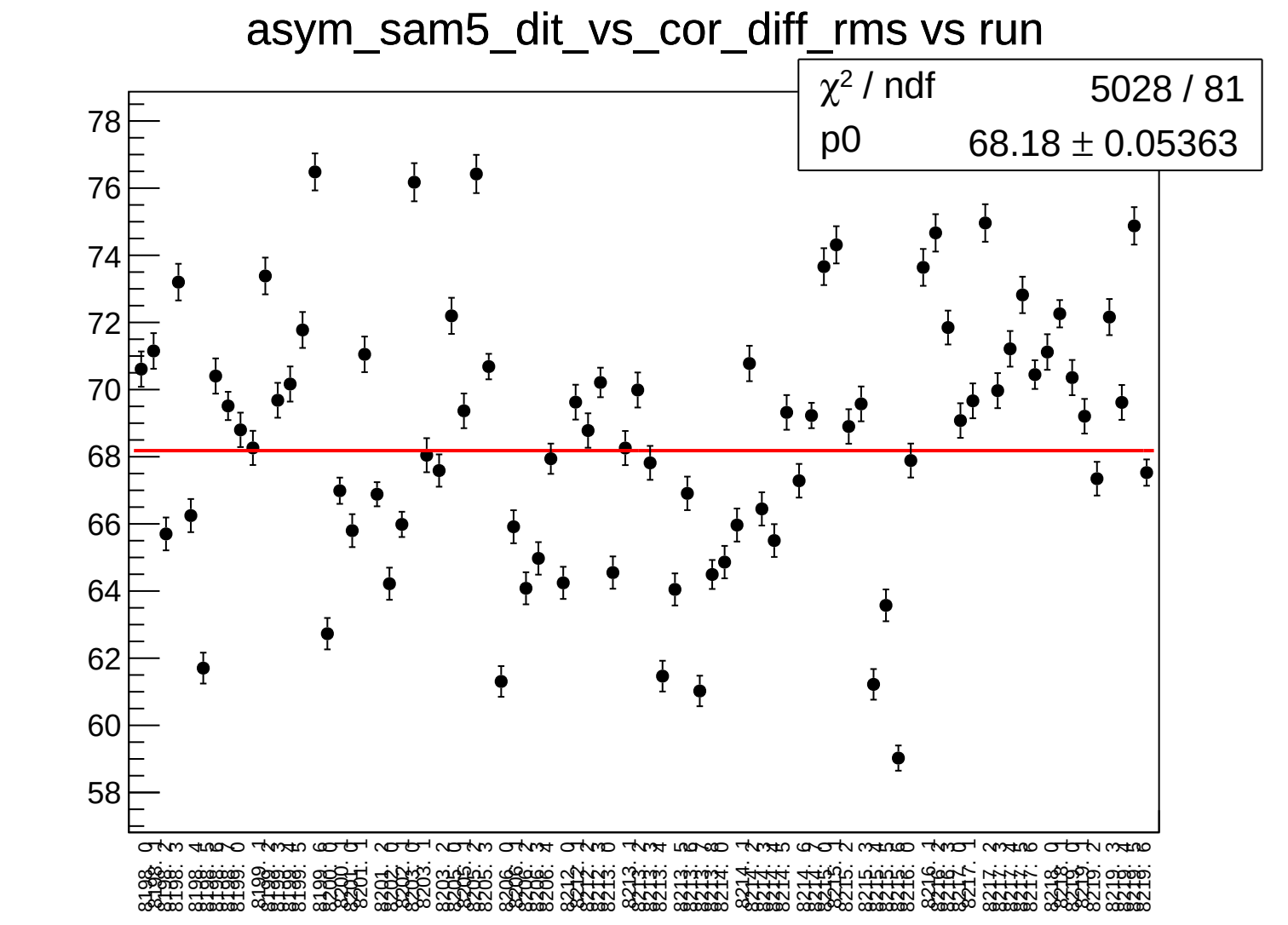

asym_sam5_rms vs run
χ² / ndf 3.785e+04 / 81
p0 1311 ± 1.042
2000
1800
1600
1400
1200
1000

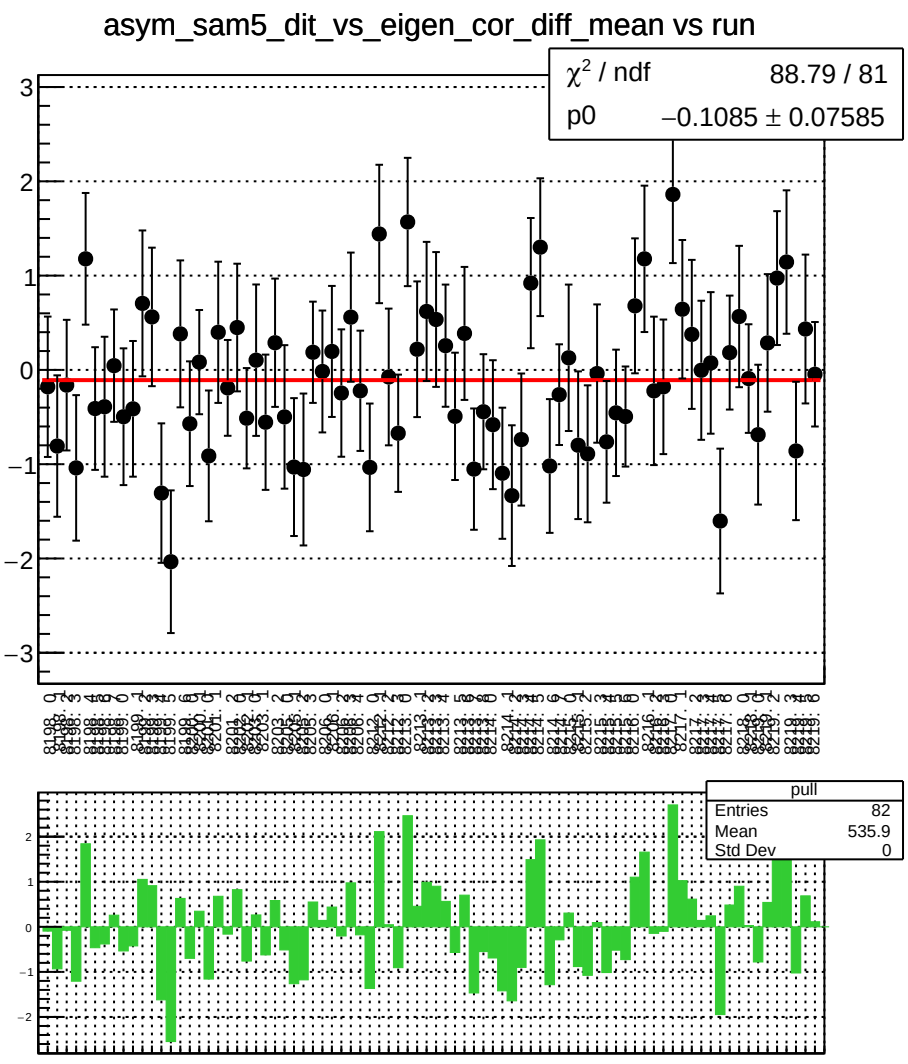

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 87.73 / 81
p0 2.069e−14 ± 8.758e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean 30.52
Std Dev 24.88

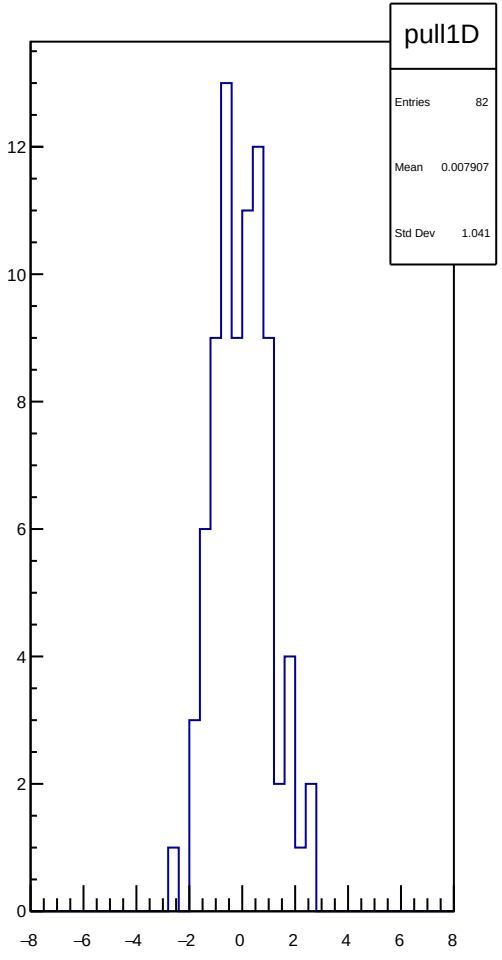

pull1D
Entries 82
Mean −0.07534
Std Dev 1.032

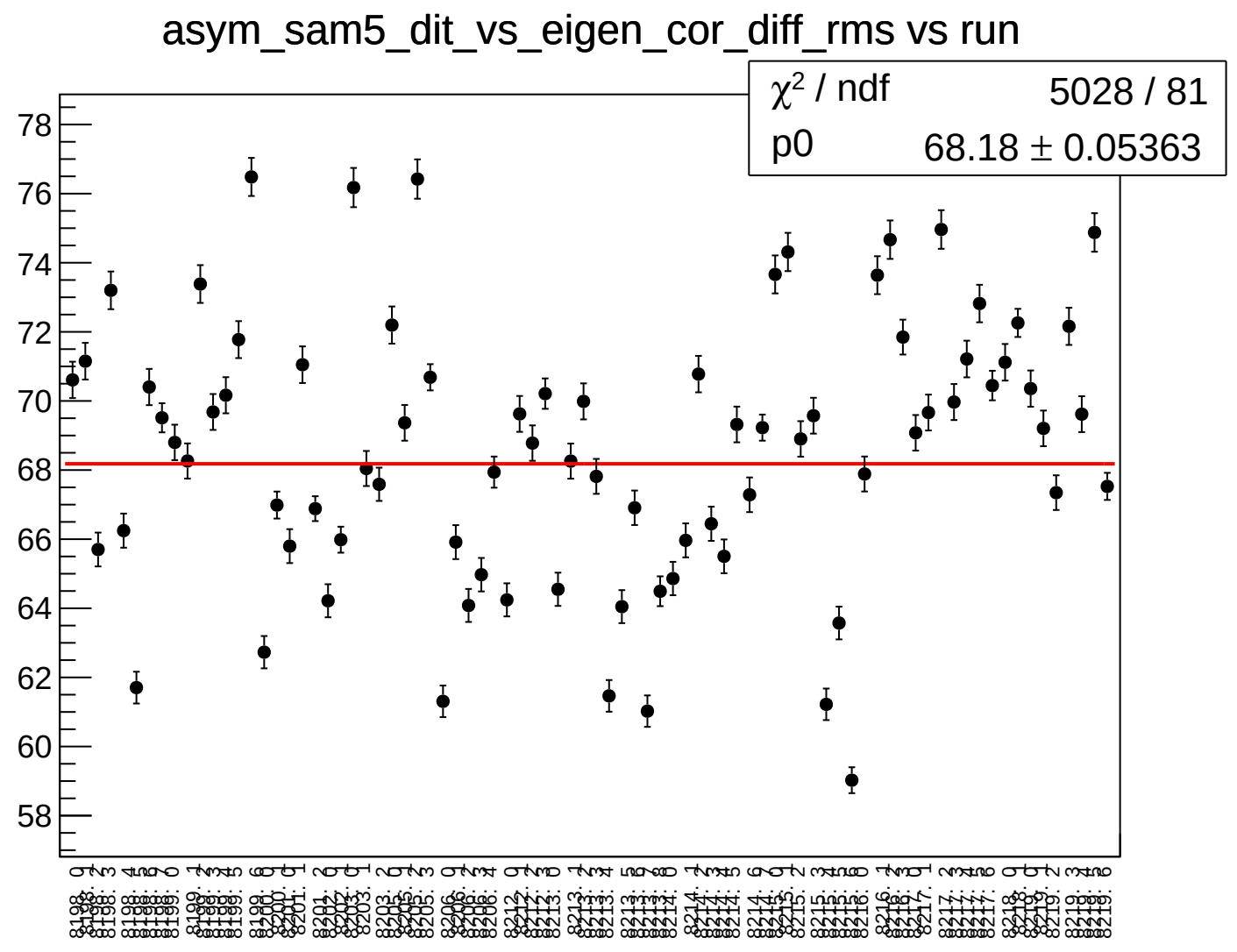

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 8.954e+05 / 81
p0 5.276e−11 ± 6.193e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

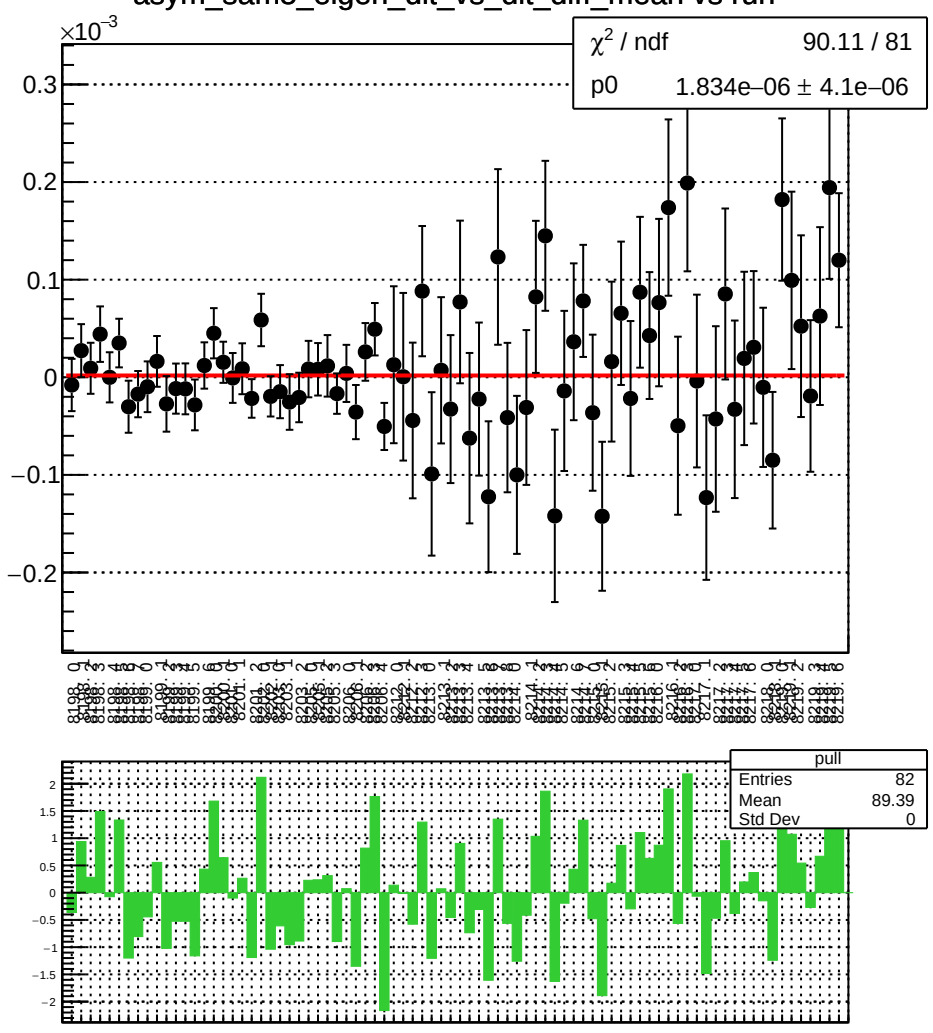

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 88.79 / 81
p0 −0.1085 ± 0.07585
pull
Entries 82
Mean 535.9
Std Dev 0
pull1D
Entries 82
Mean 0.007907
Std Dev 1.041

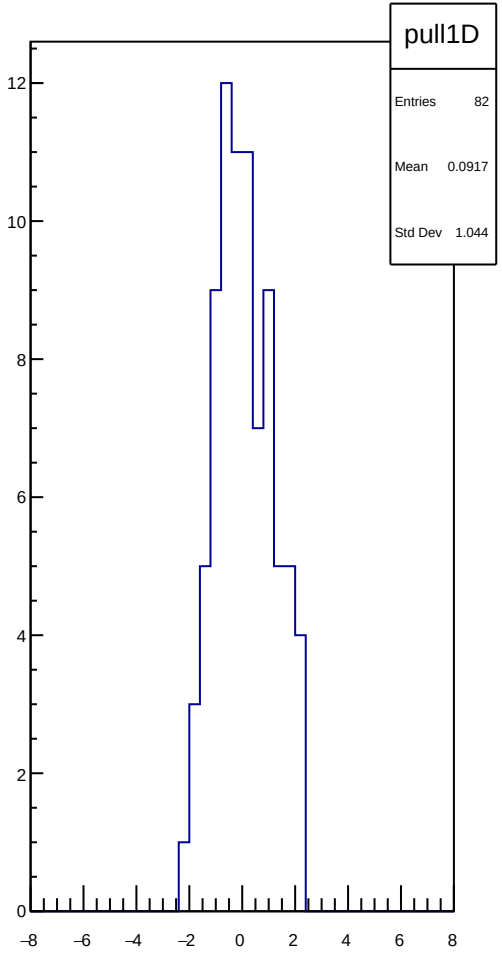

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 5028 / 81
p0 68.18 ± 0.05363
78
76
74
72
70
68
66
64
62
60
58

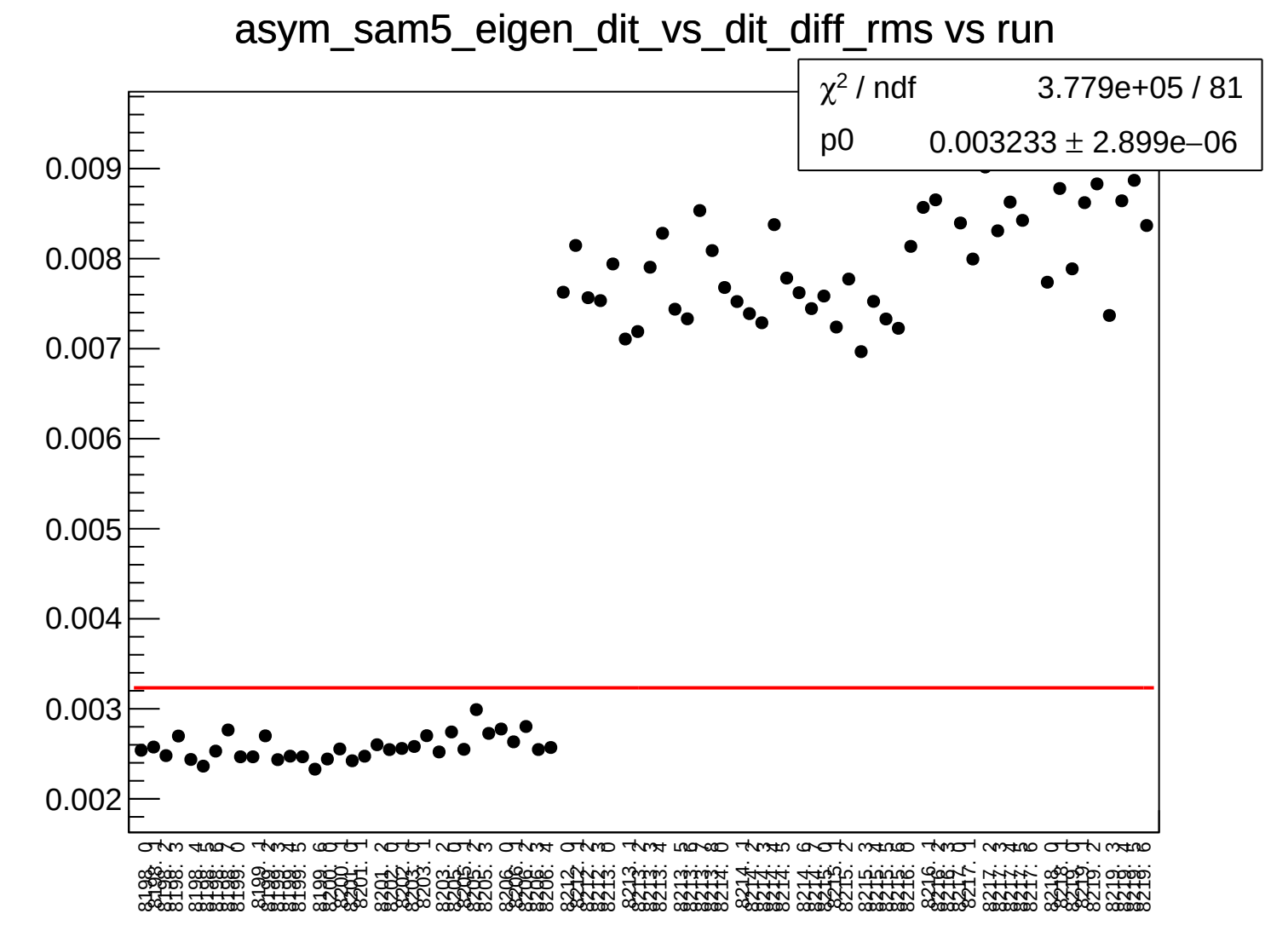

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.79 / 81
p0 −0.1085 ± 0.07585
pull
Entries 82
Mean 535.9
Std Dev 0

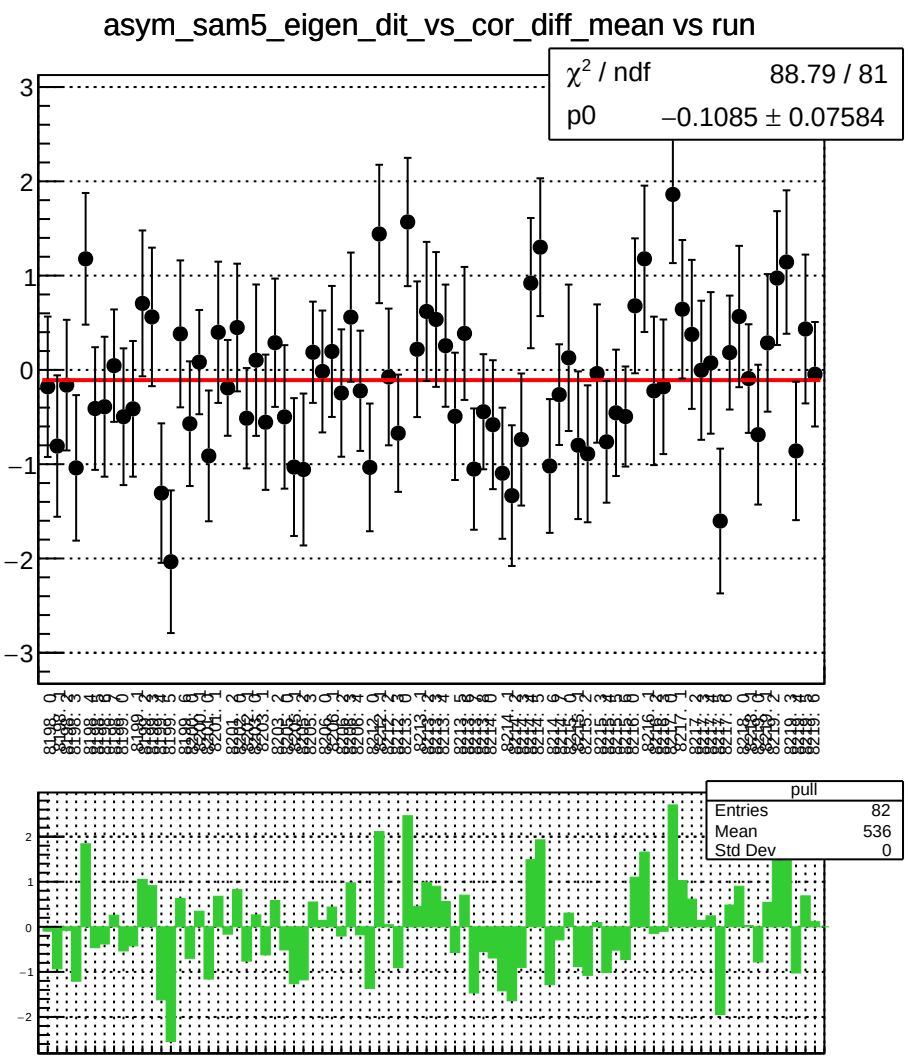

pull1D
Entries 82
Mean 0.007907
Std Dev 1.041

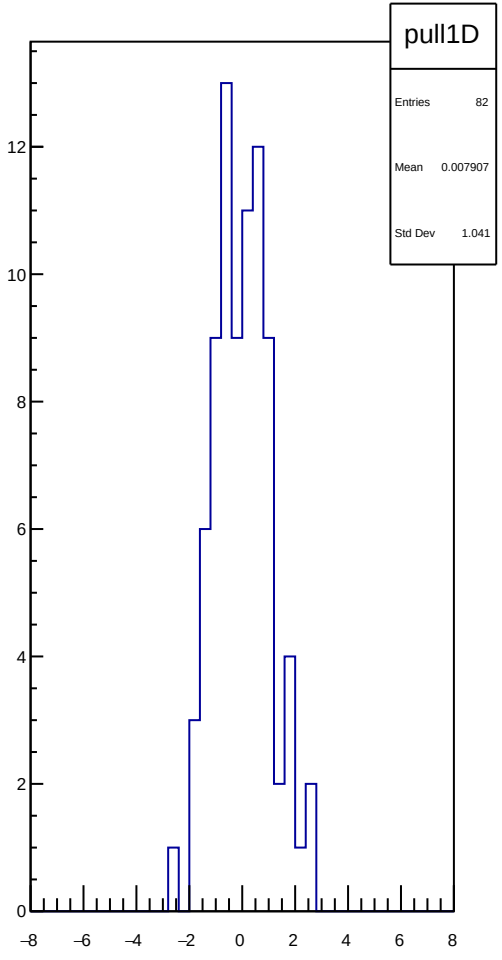

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5028 / 81
p0 68.18 ± 0.05363
78
76
74
72
70
68
66
64
62
60
58

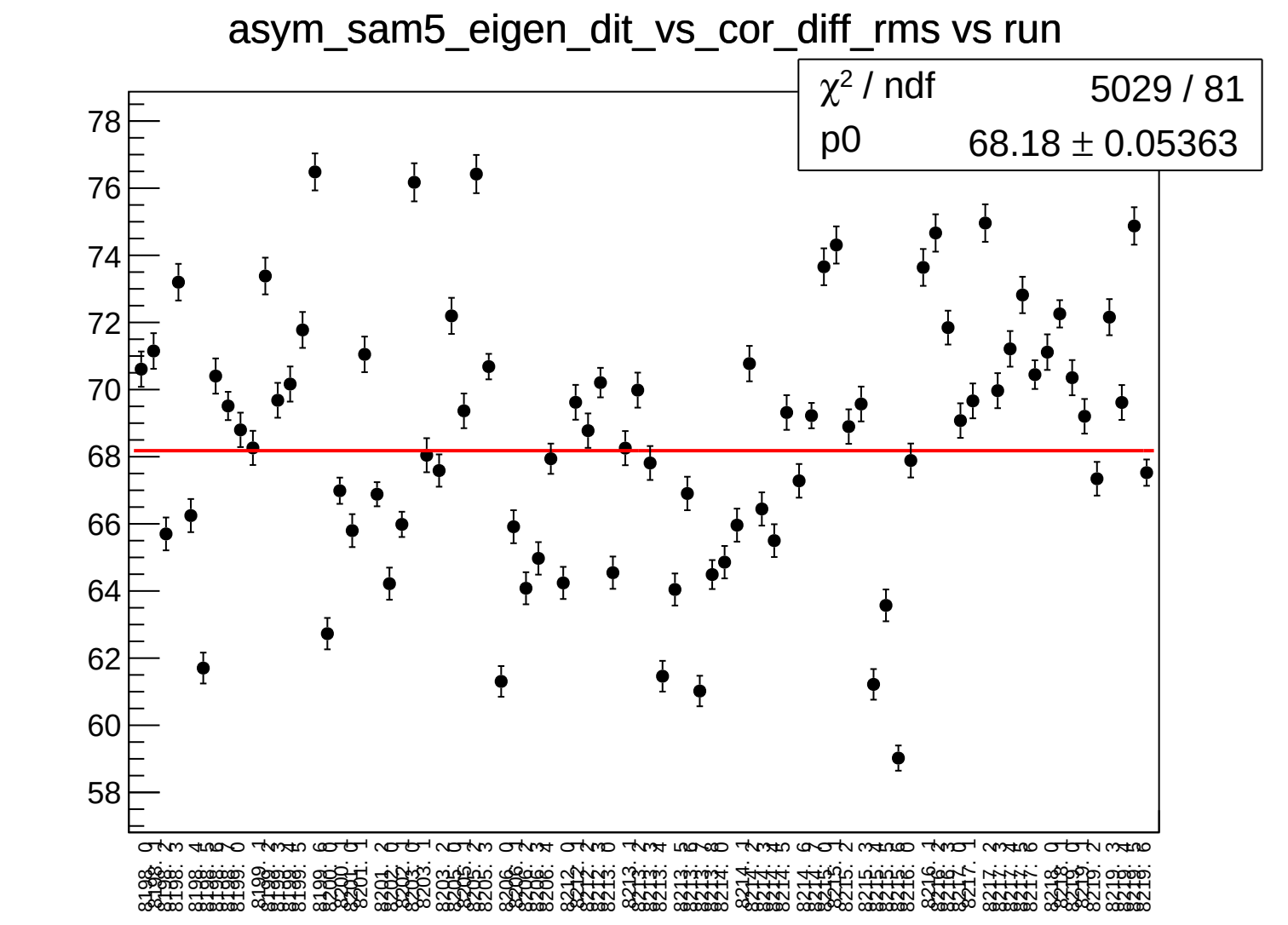

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.11 / 81
p0 1.834e−06 ± 4.1e−06
pull
Entries 82
Mean 89.39
Std Dev 0

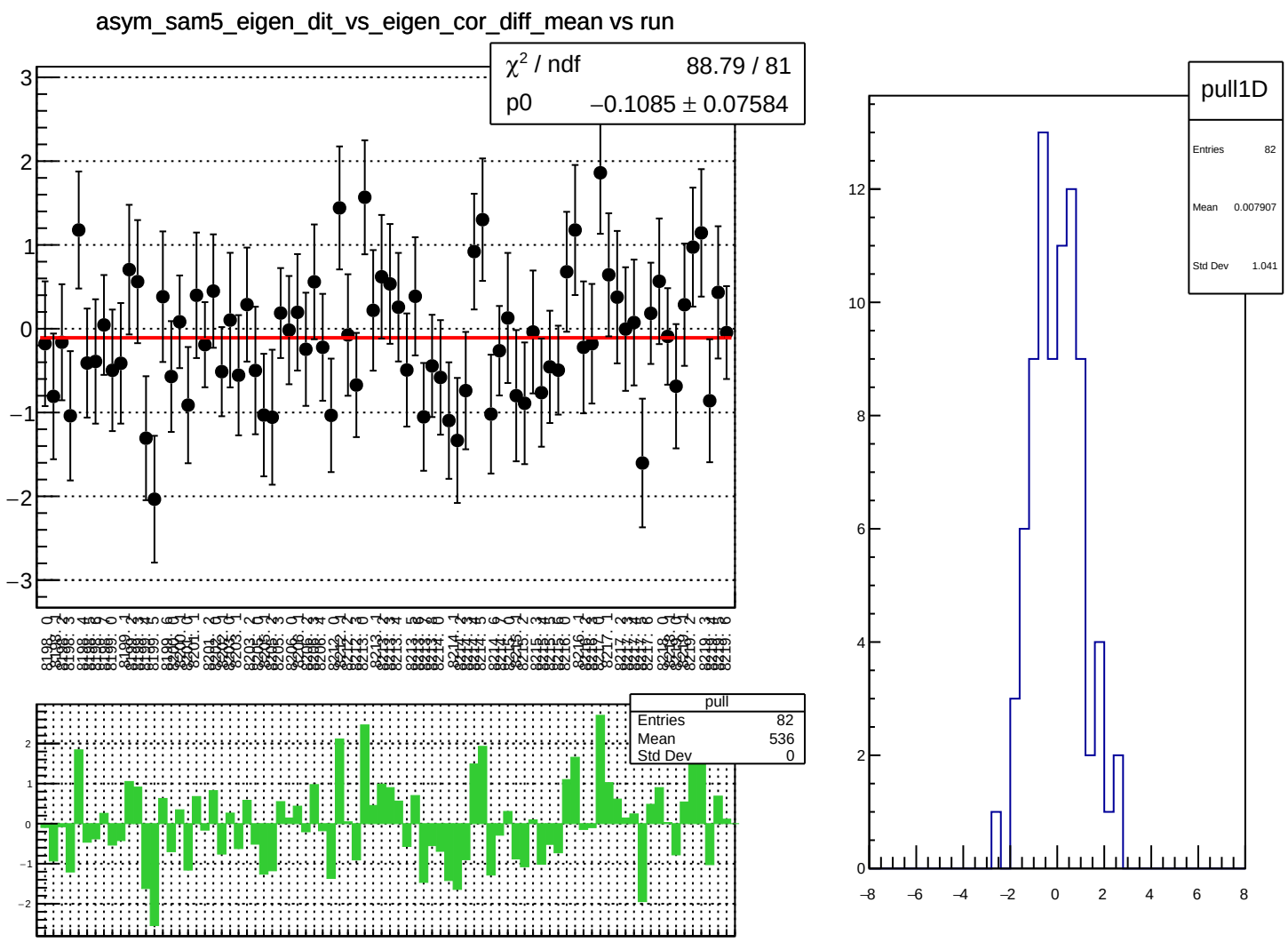

pull1D
Entries 82
Mean 0.0917
Std Dev 1.044

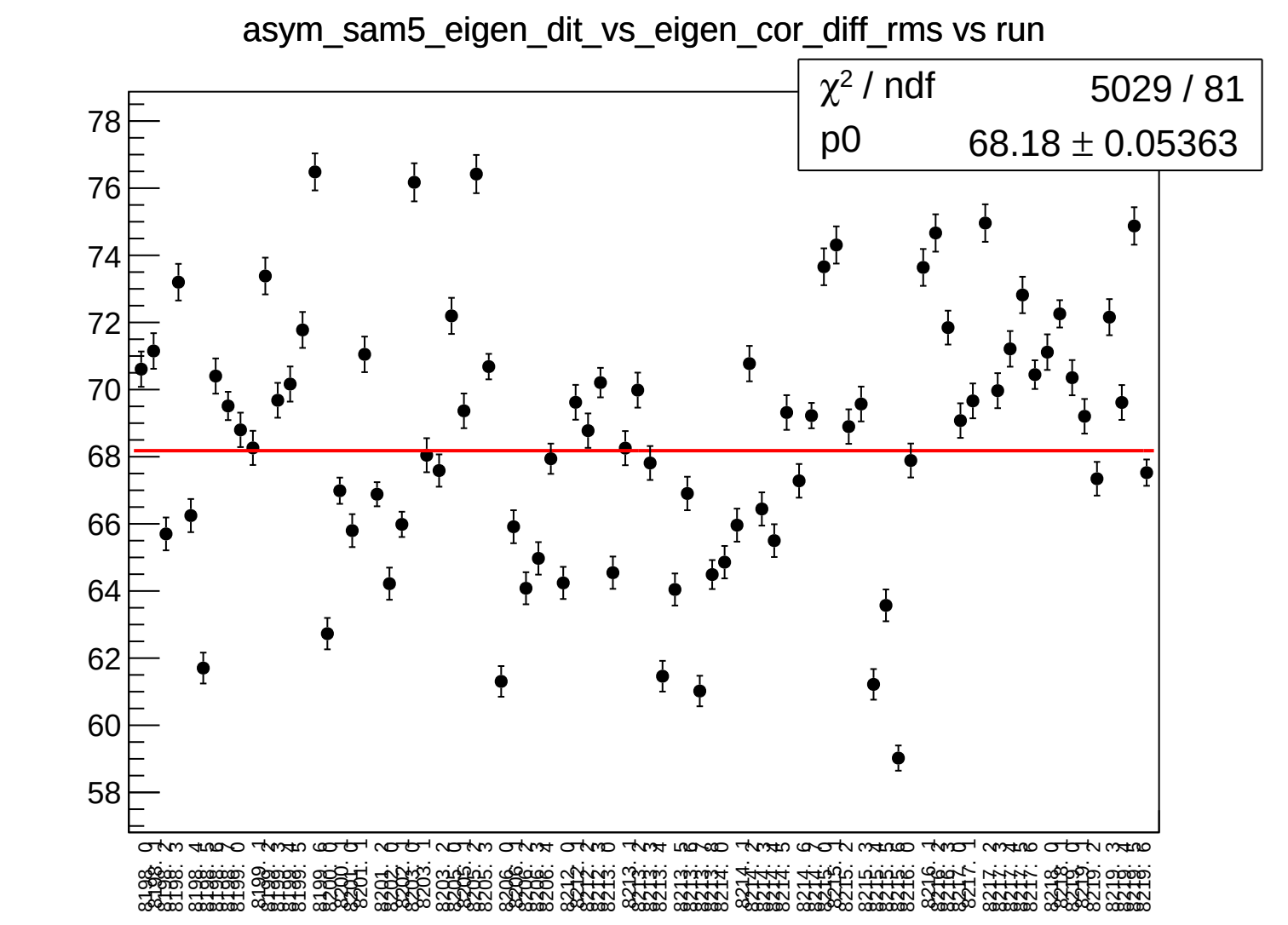

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.779e+05 / 81
p0 0.003233 ± 2.899e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

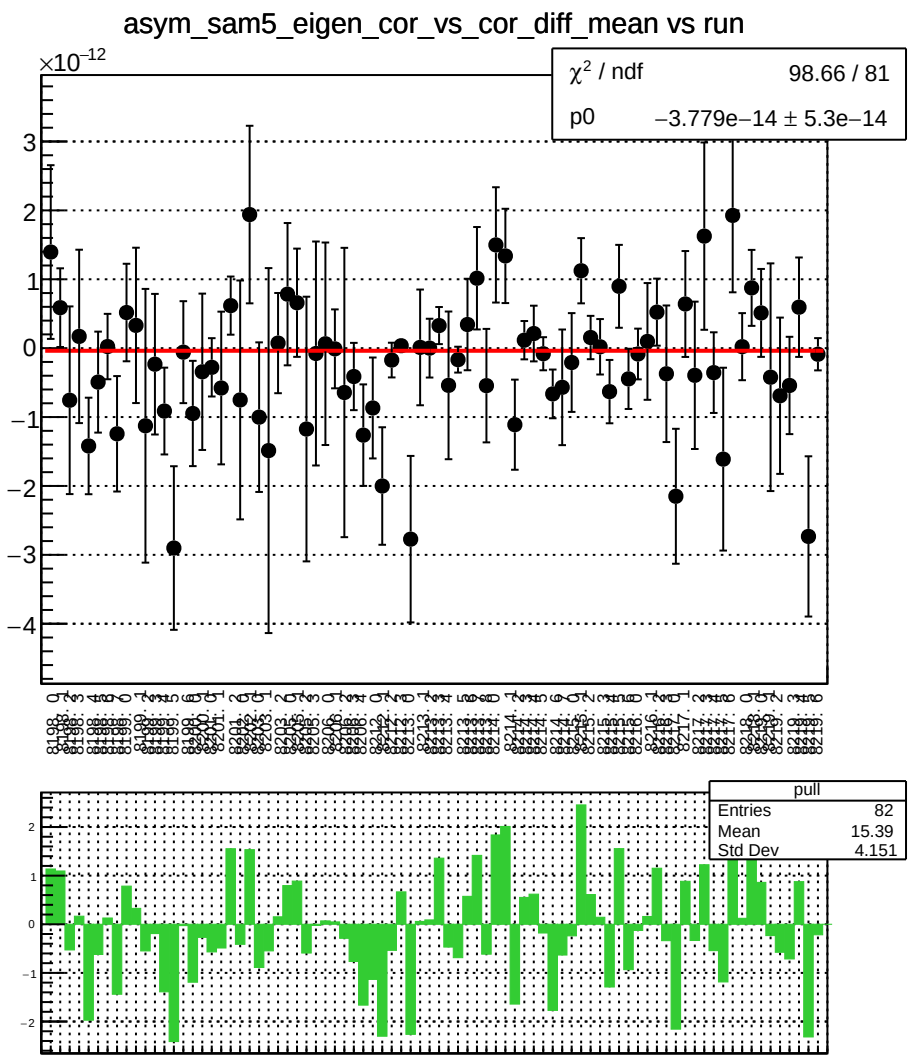

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.79 / 81
p0 −0.1085 ± 0.07584
pull
Entries 82
Mean 536
Std Dev 0

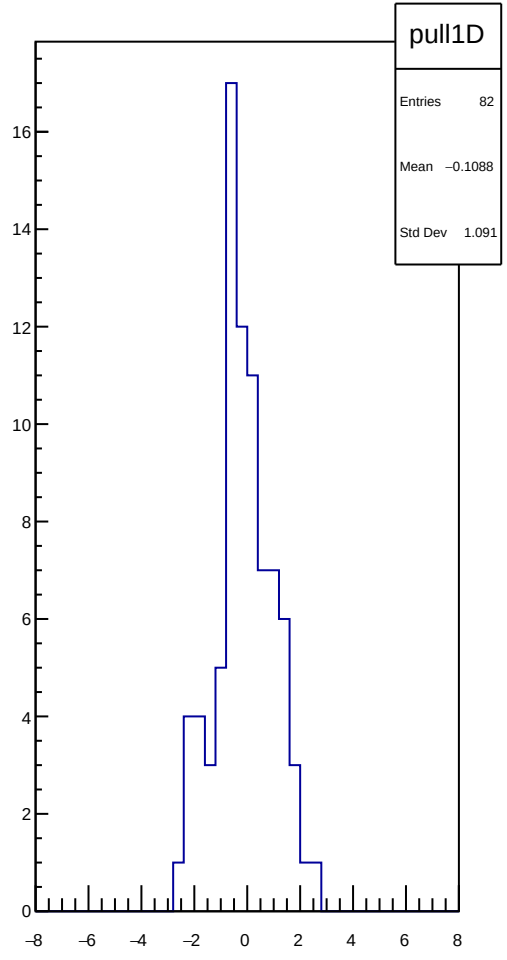

pull1D
Entries 82
Mean 0.007907
Std Dev 1.041

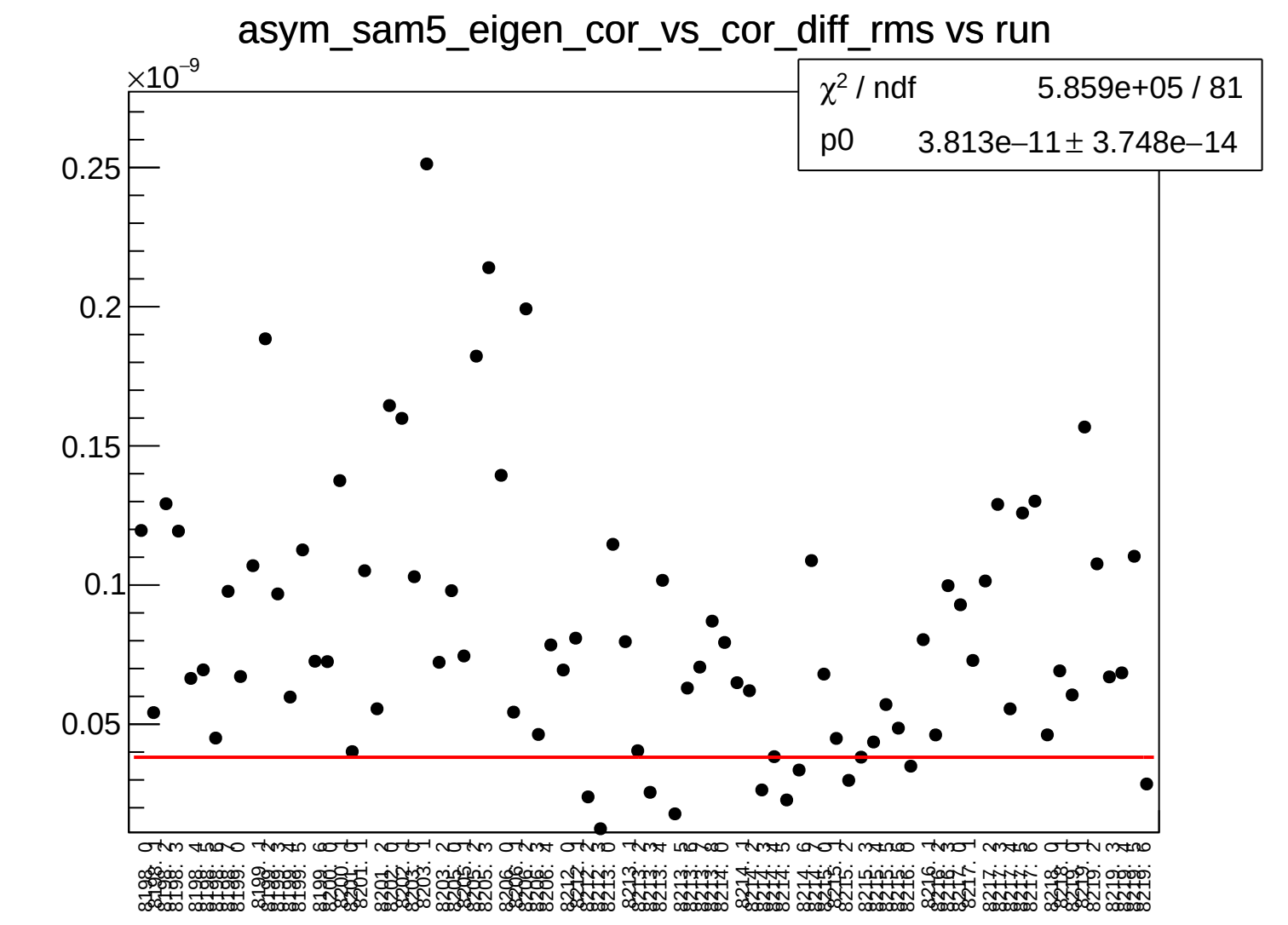

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5029 / 81
p0 68.18 ± 0.05363
78
76
74
72
70
68
66
64
62
60
58

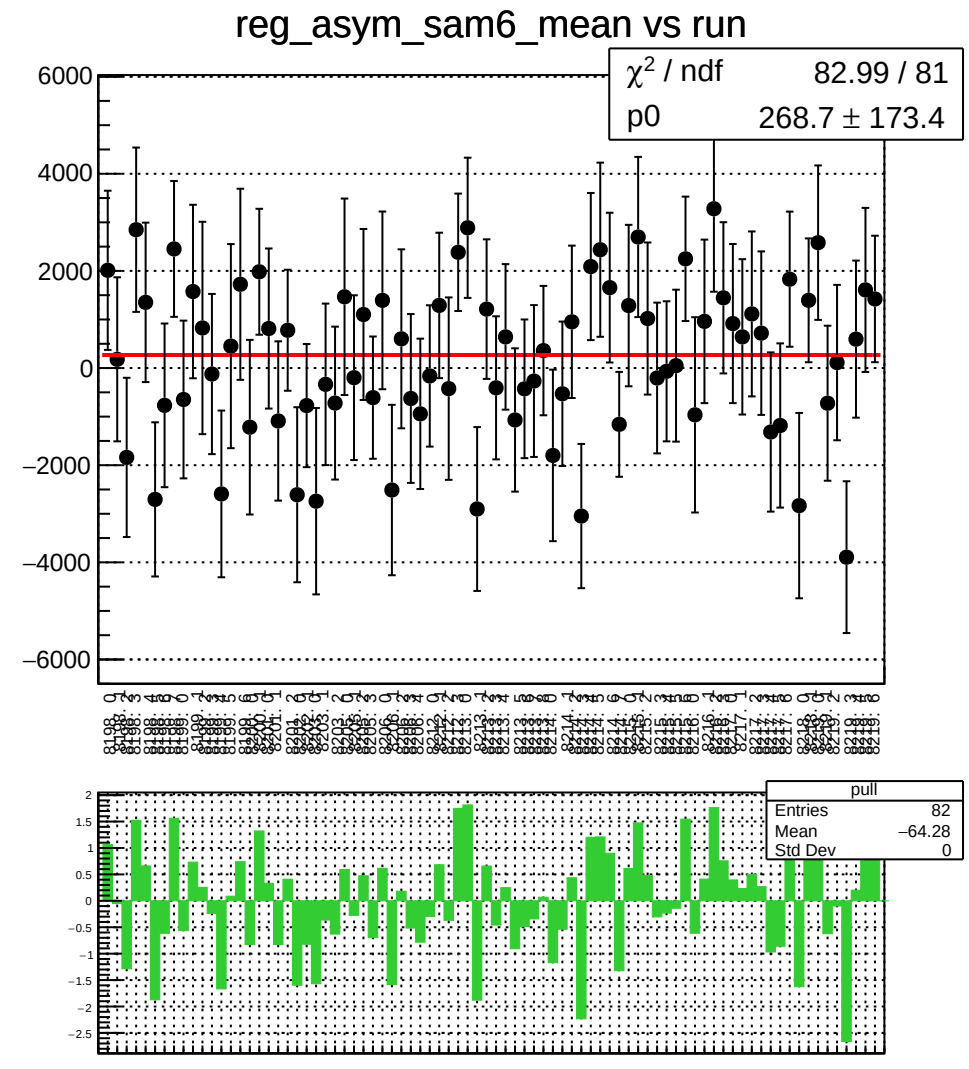

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.79 / 81
p0 −0.1085 ± 0.07584
pull
Entries 82
Mean 536
Std Dev 0
pull1D
Entries 82
Mean 0.007907
Std Dev 1.041

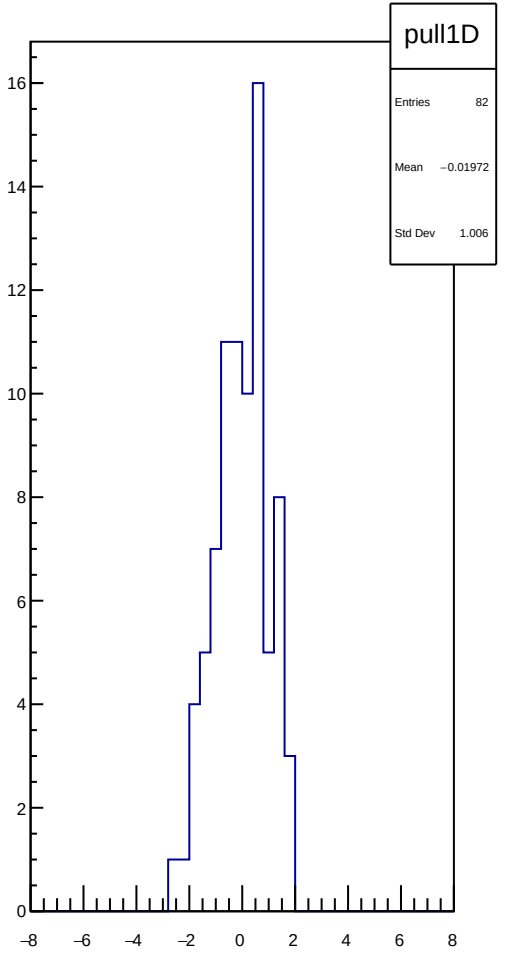

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5029 / 81
p0 68.18 ± 0.05363
78
76
74
72
70
68
66
64
62
60
58

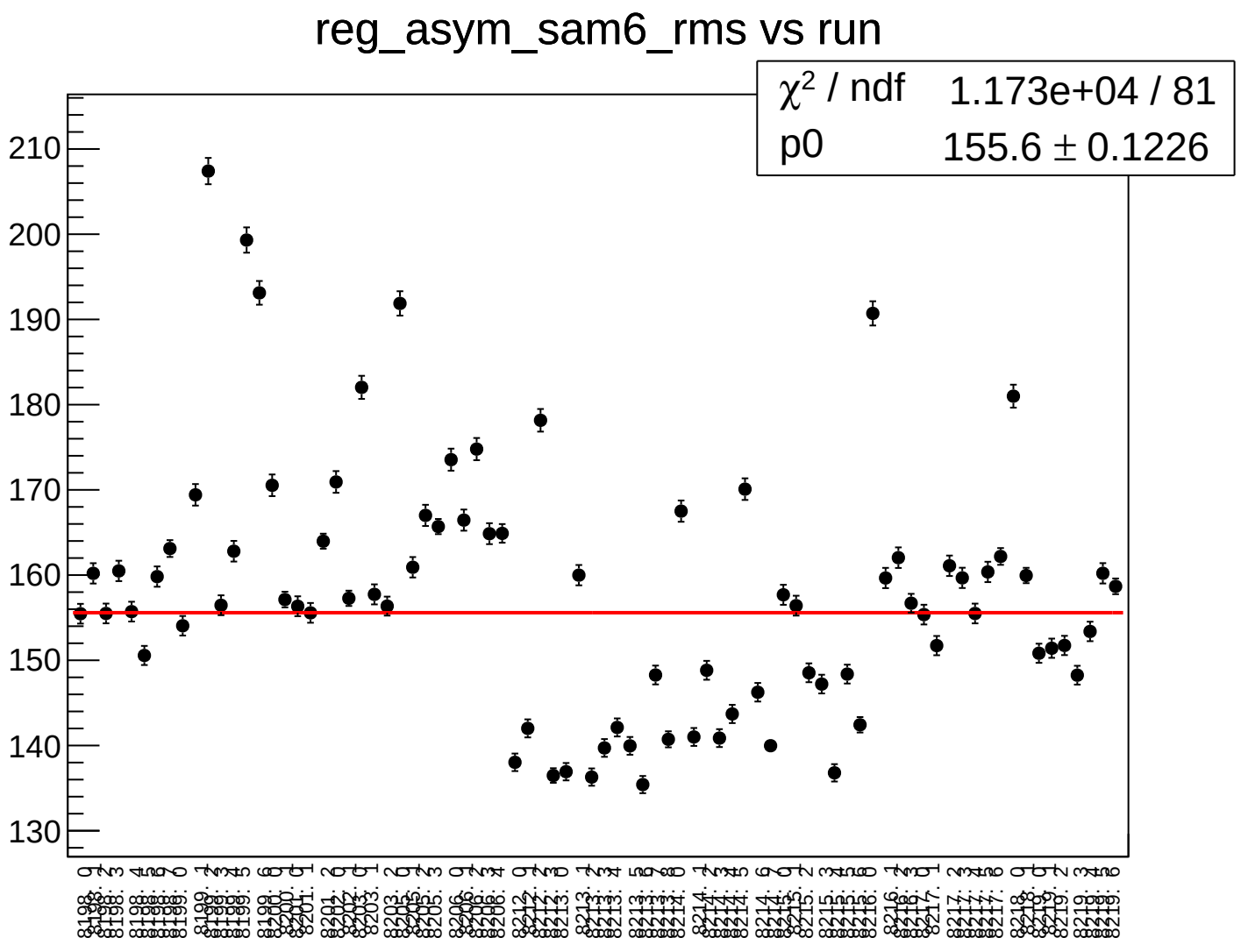

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.66 / 81
p0 −3.779e−14 ± 5.3e−14
pull
Entries 82
Mean 15.39
Std Dev 4.151

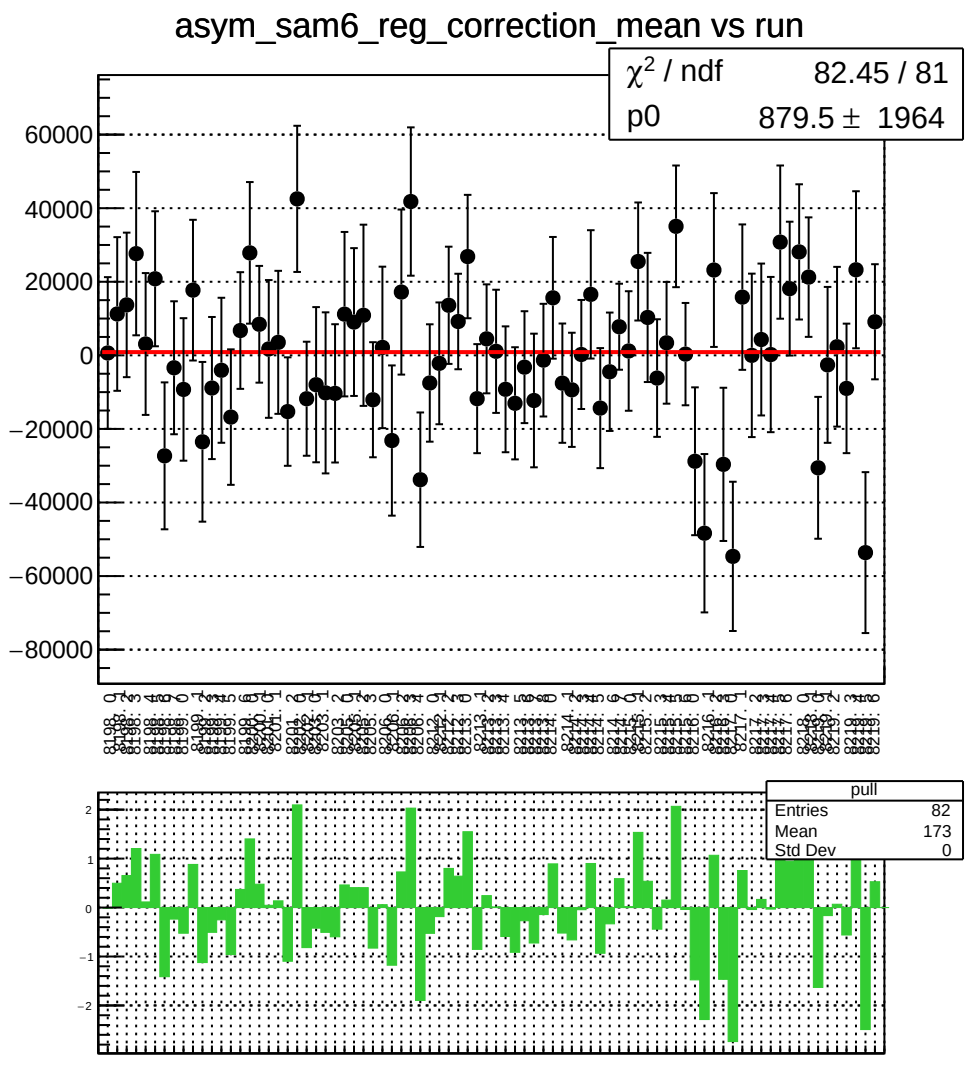

pull1D
Entries 82
Mean −0.1088
Std Dev 1.091

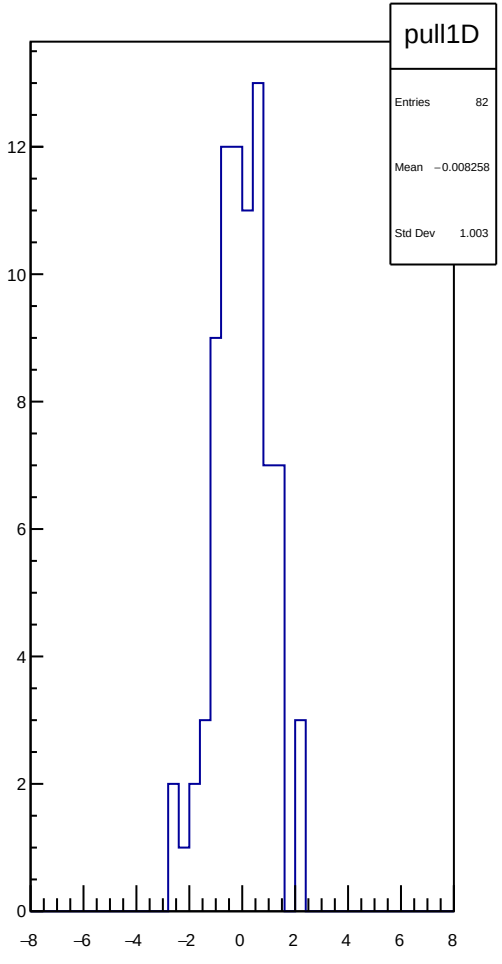

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.859e+05 / 81
p0 3.813e−11 ± 3.748e−14
0.25
0.2
0.15
0.1
0.05

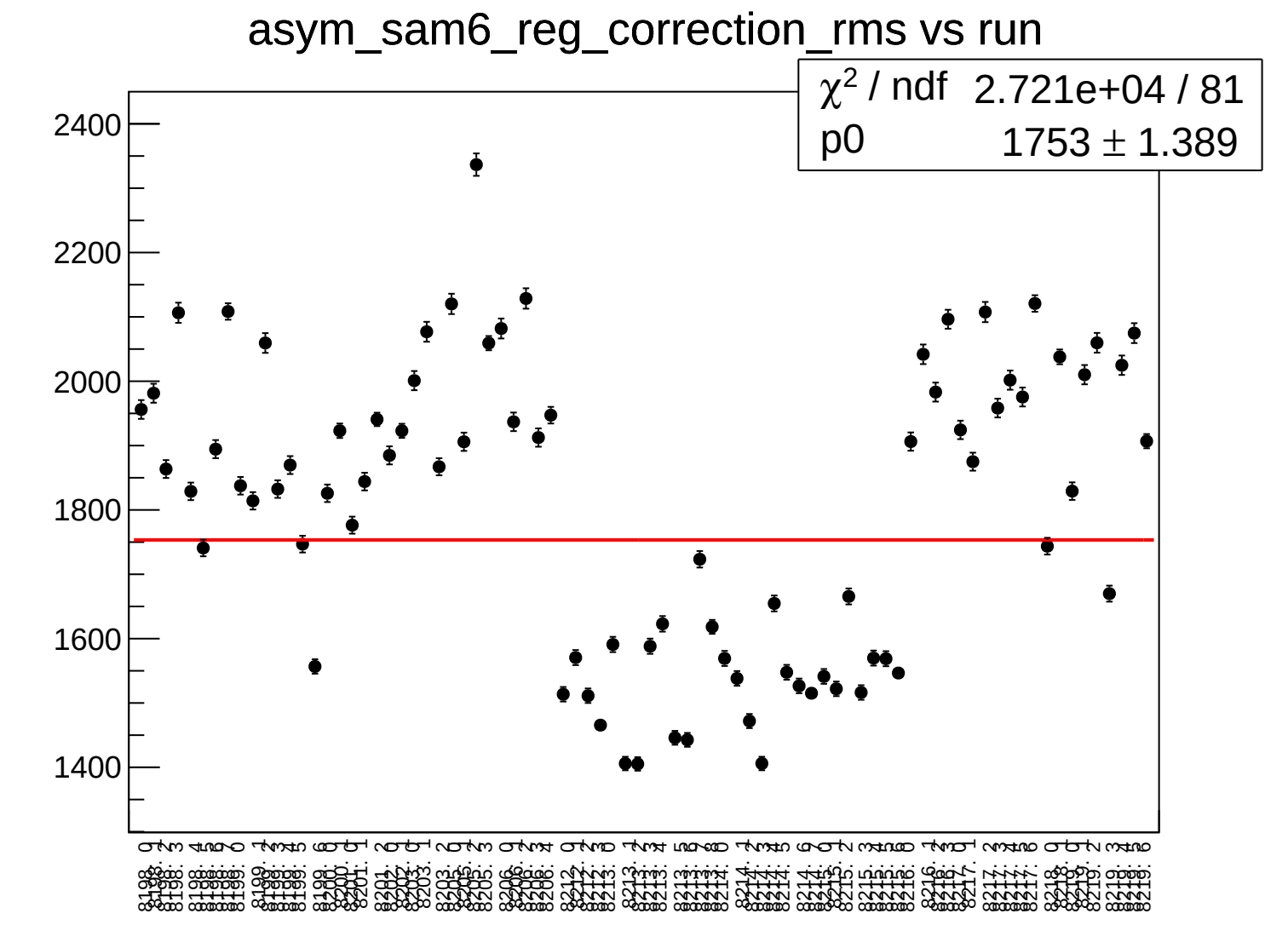

reg_asym_sam6_mean vs run
$\chi^2$ / ndf 82.99 / 81
p0 268.7 ± 173.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −64.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

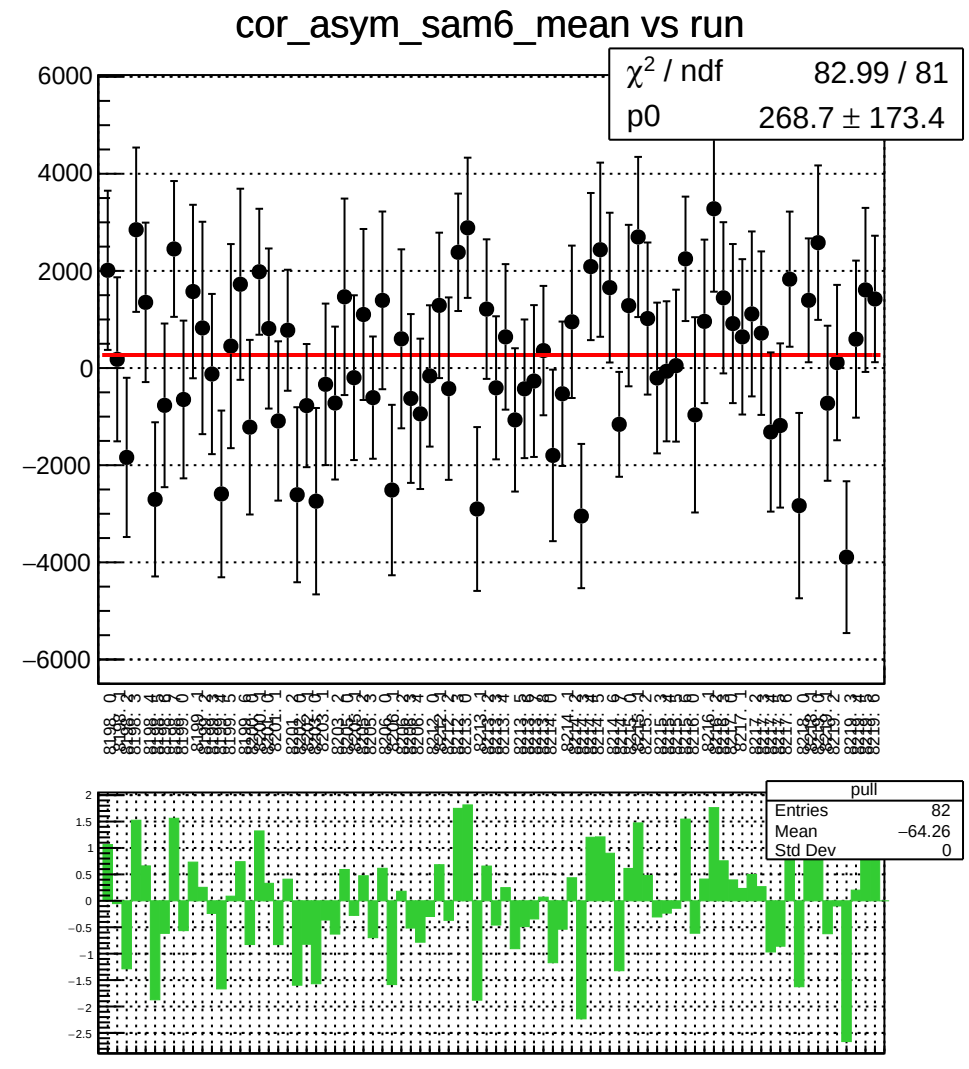

pull1D
Entries 82
Mean −0.01972
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

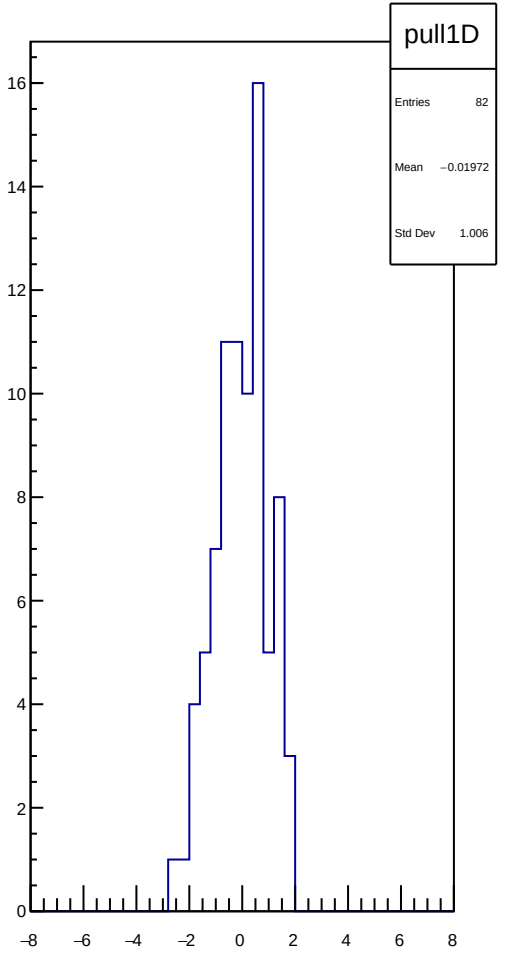

reg_asym_sam6_rms vs run
χ² / ndf 1.173e+04 / 81
p0 155.6 ± 0.1226
210
200
190
180
170
160
150
140
130

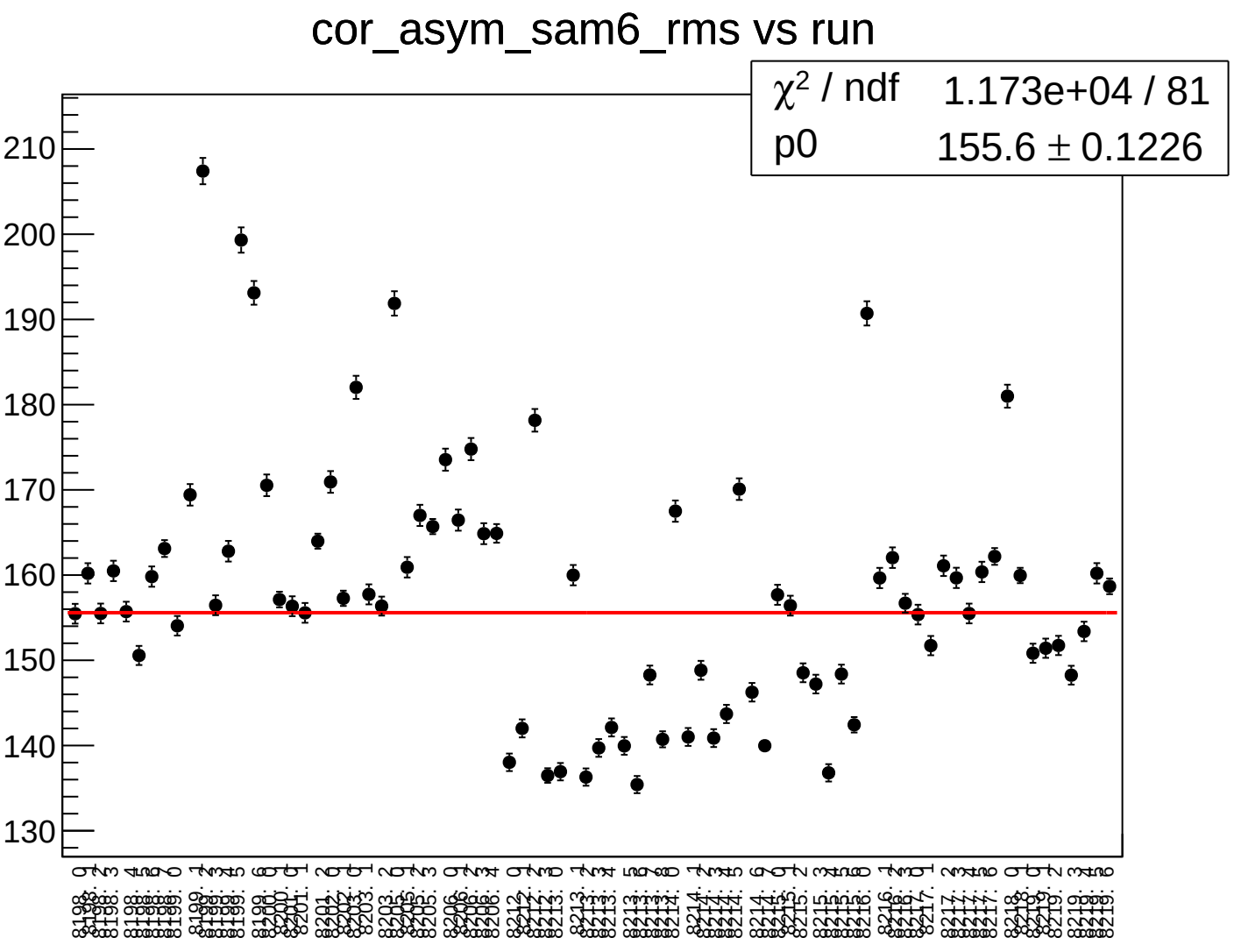

asym_sam6_reg_correction_mean vs run
χ² / ndf 82.45 / 81
p0 879.5 ± 1964
pull
Entries 82
Mean 173
Std Dev 0

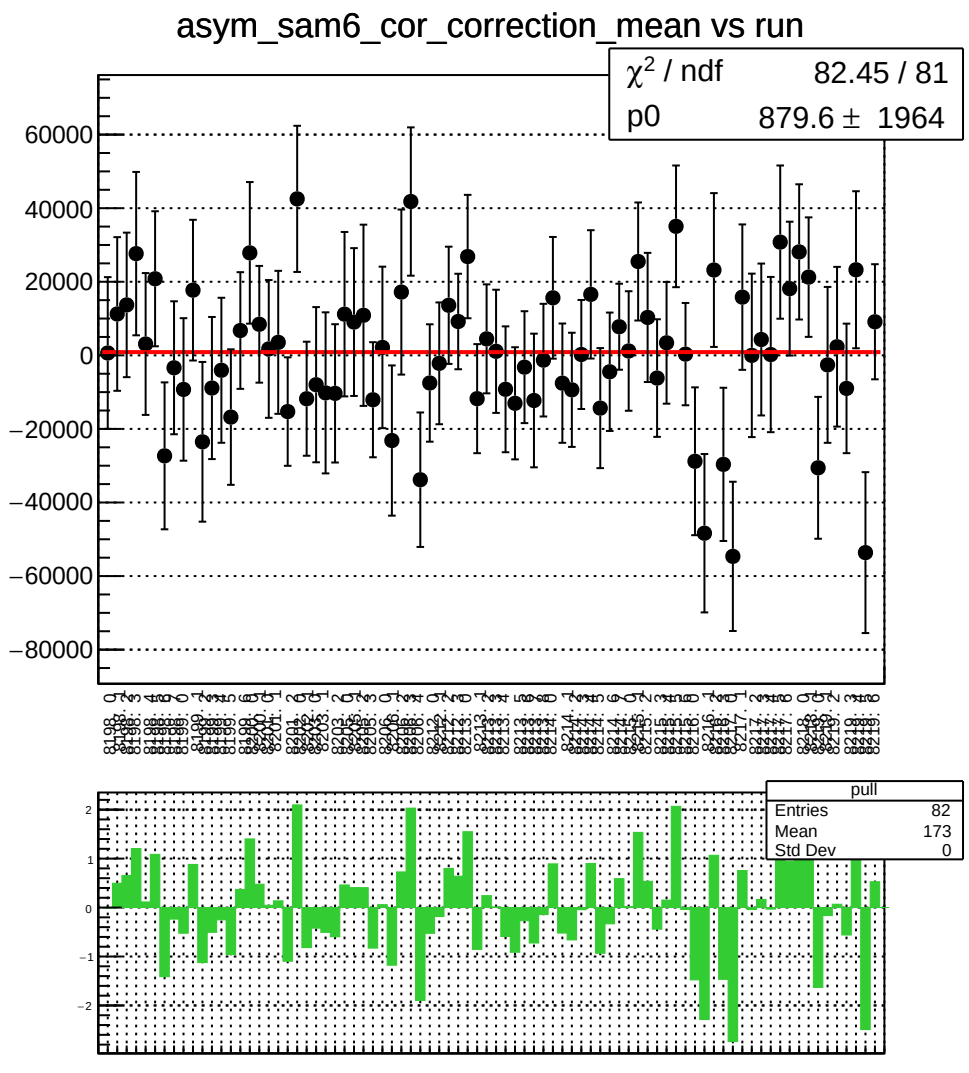

pull1D
Entries 82
Mean −0.008258
Std Dev 1.003

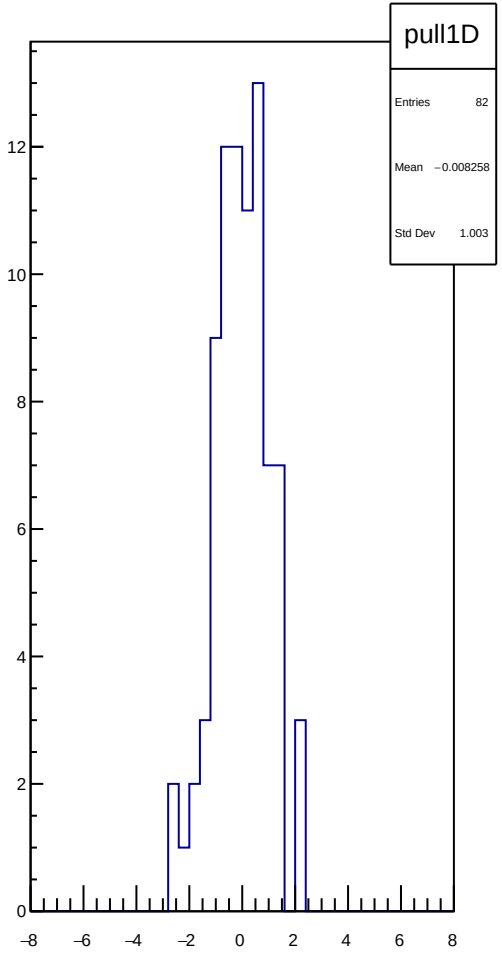

asym_sam6_reg_correction_rms vs run
χ² / ndf 2.721e+04 / 81
p0 1753 ± 1.389
2400
2200
2000
1800
1600
1400

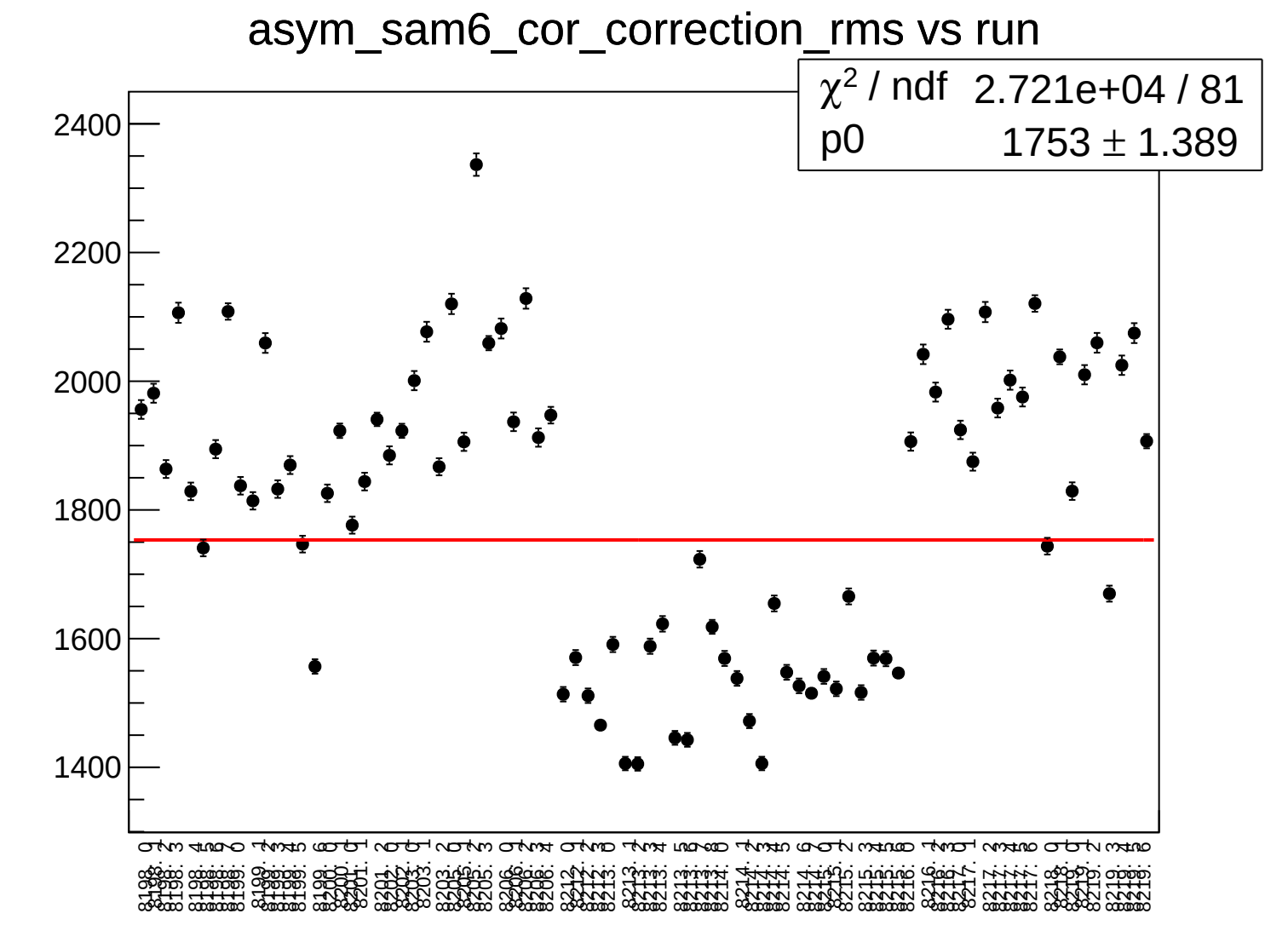

cor_asym_sam6_mean vs run
$\chi^2$ / ndf 82.99 / 81
p0 268.7 ± 173.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −64.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

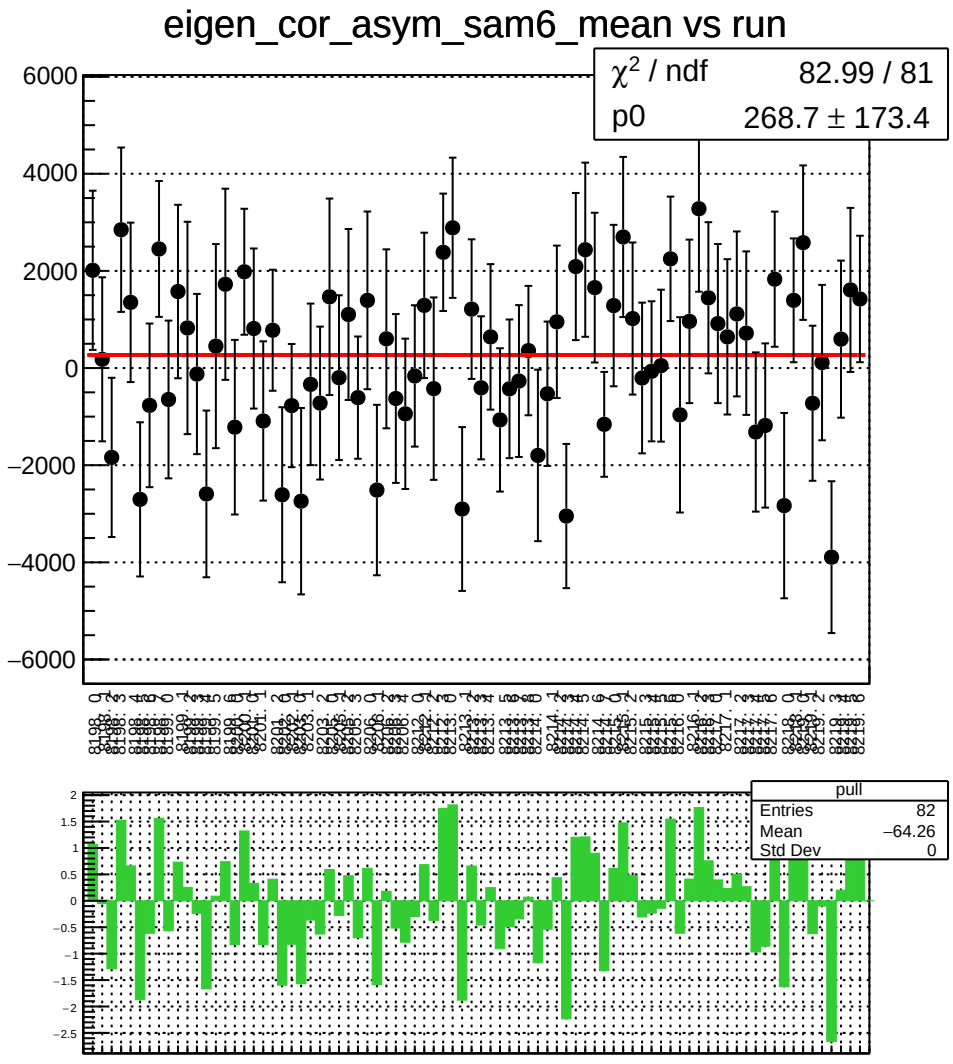

pull1D
Entries 82
Mean −0.01972
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

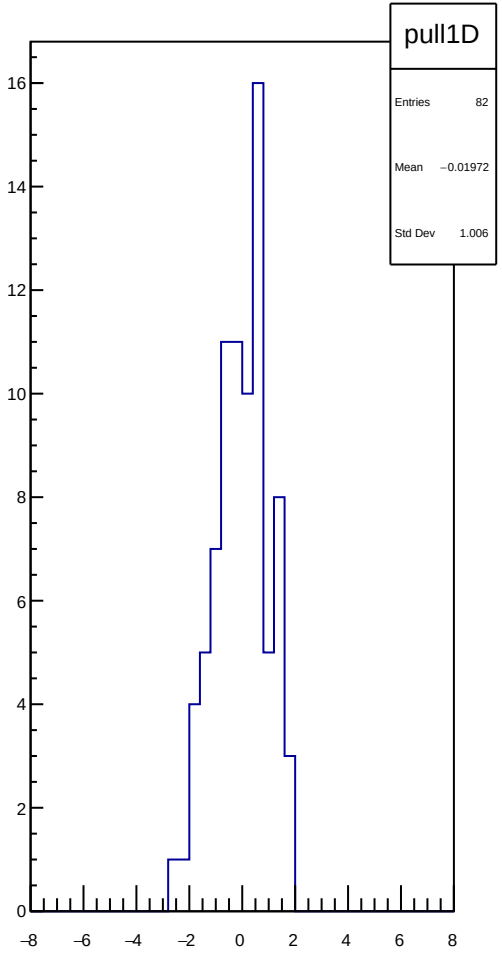

cor_asym_sam6_rms vs run
χ² / ndf 1.173e+04 / 81
p0 155.6 ± 0.1226
210
200
190
180
170
160
150
140
130

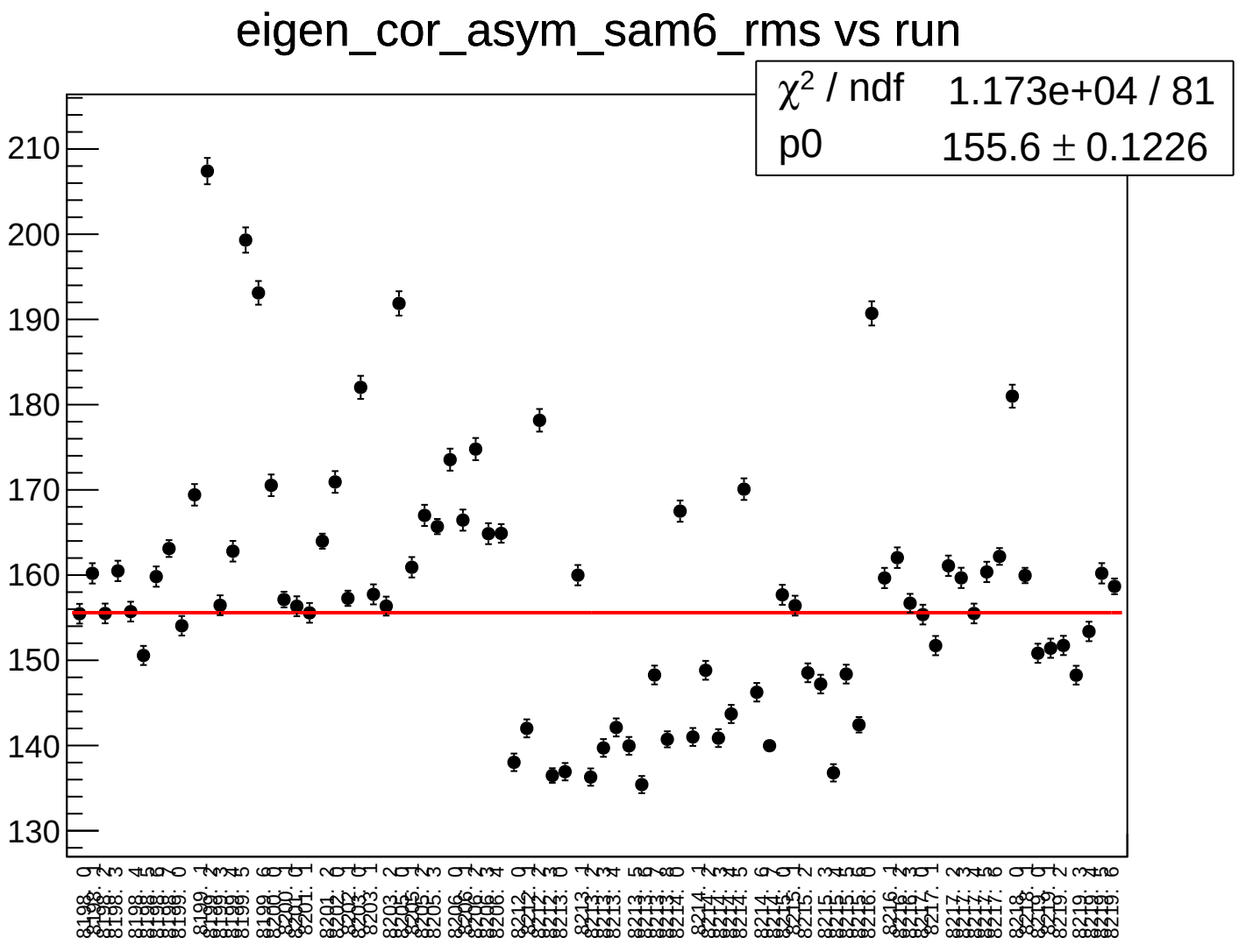

asym_sam6_cor_correction_mean vs run
χ² / ndf 82.45 / 81
p0 879.6 ± 1964
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 173
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 82
Mean −0.008258
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_cor_correction_rms vs run
χ² / ndf 2.721e+04 / 81
p0 1753 ± 1.389
2400
2200
2000
1800
1600
1400


eigen_cor_asym_sam6_mean vs run
$\chi^2$ / ndf 82.99 / 81
p0 268.7 ± 173.4
pull
Entries 82
Mean −64.26
Std Dev 0


pull1D
Entries 82
Mean −0.01972
Std Dev 1.006


eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.173e+04 / 81
p0 155.6 ± 0.1226
210
200
190
180
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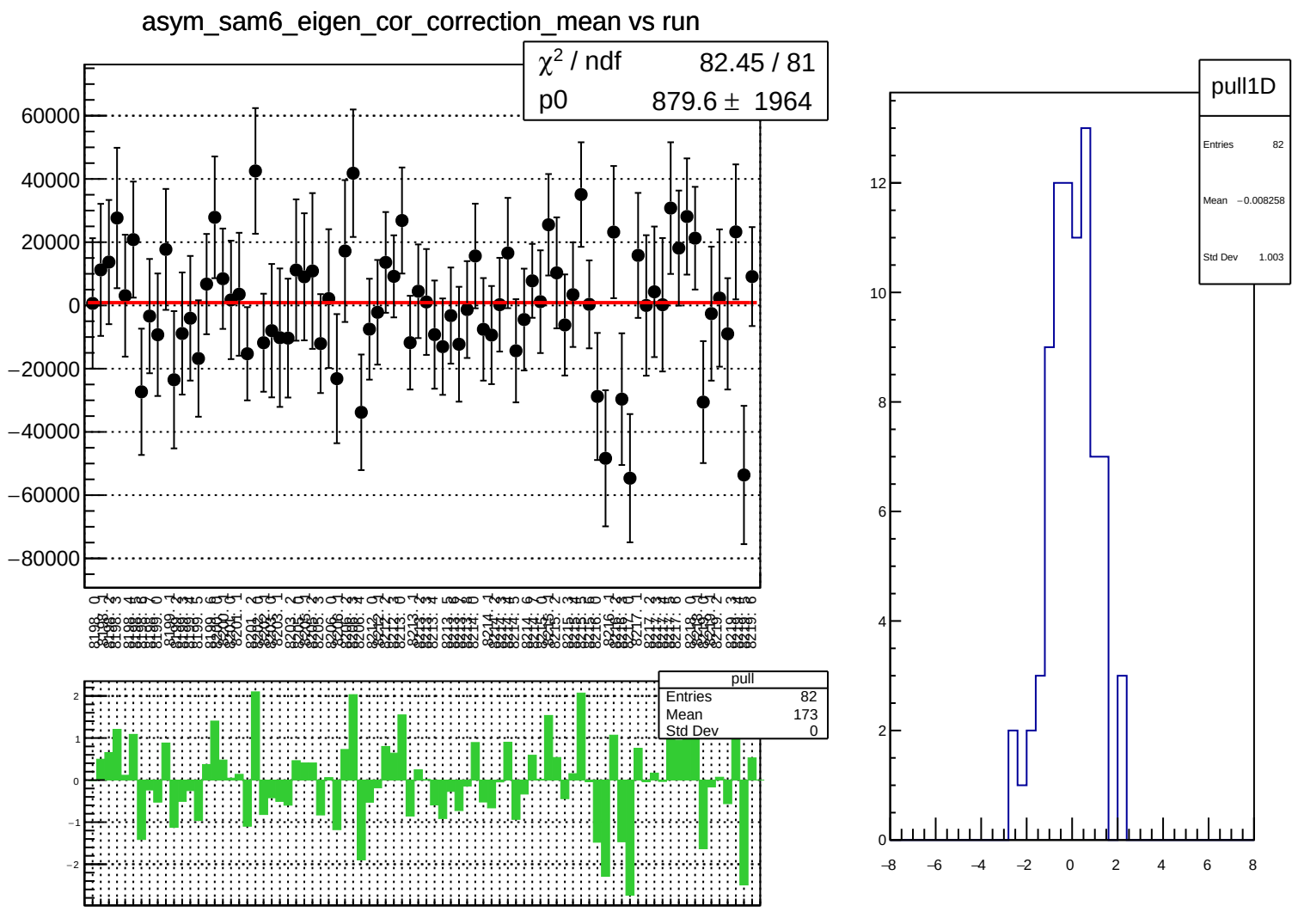
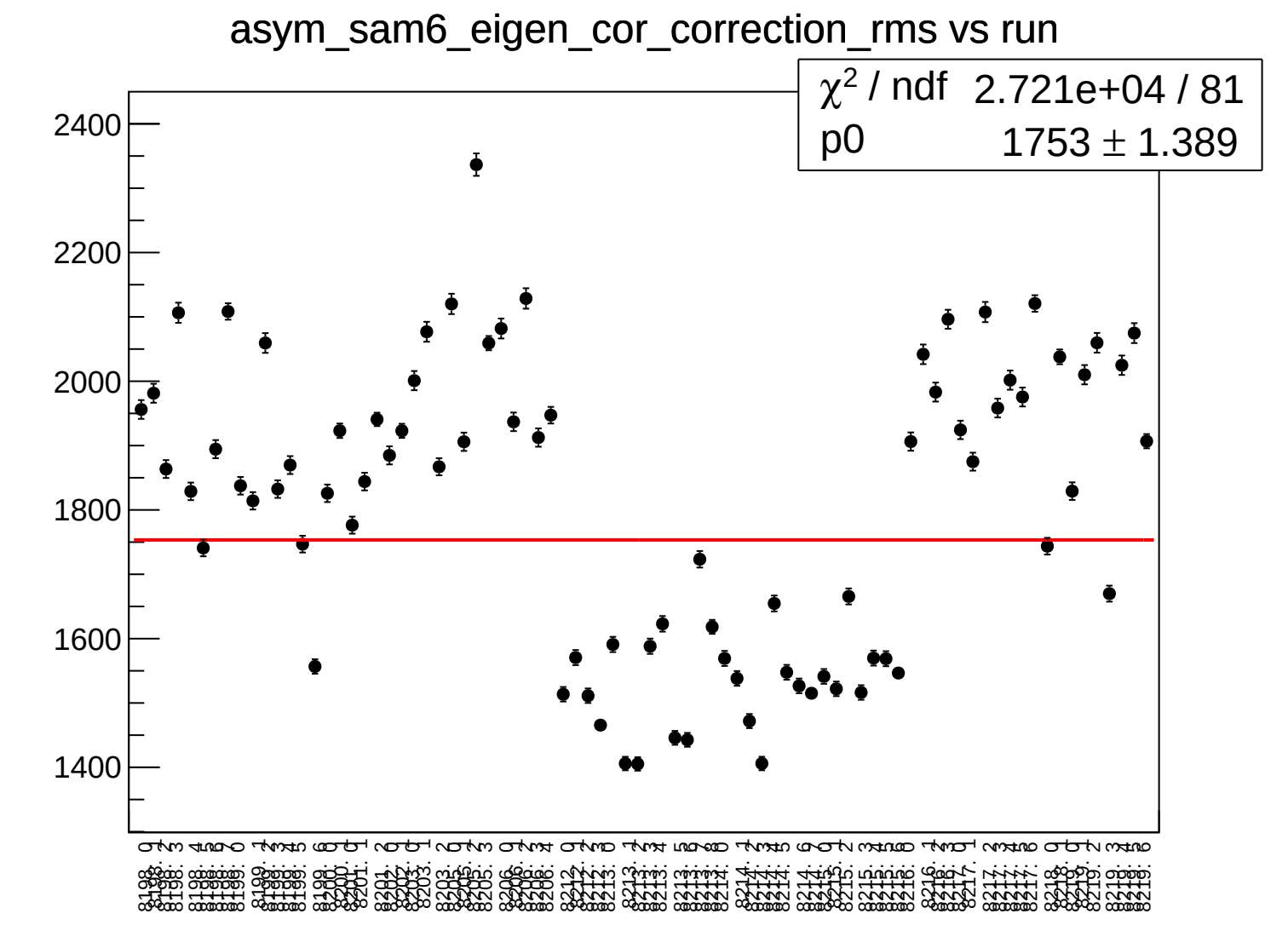
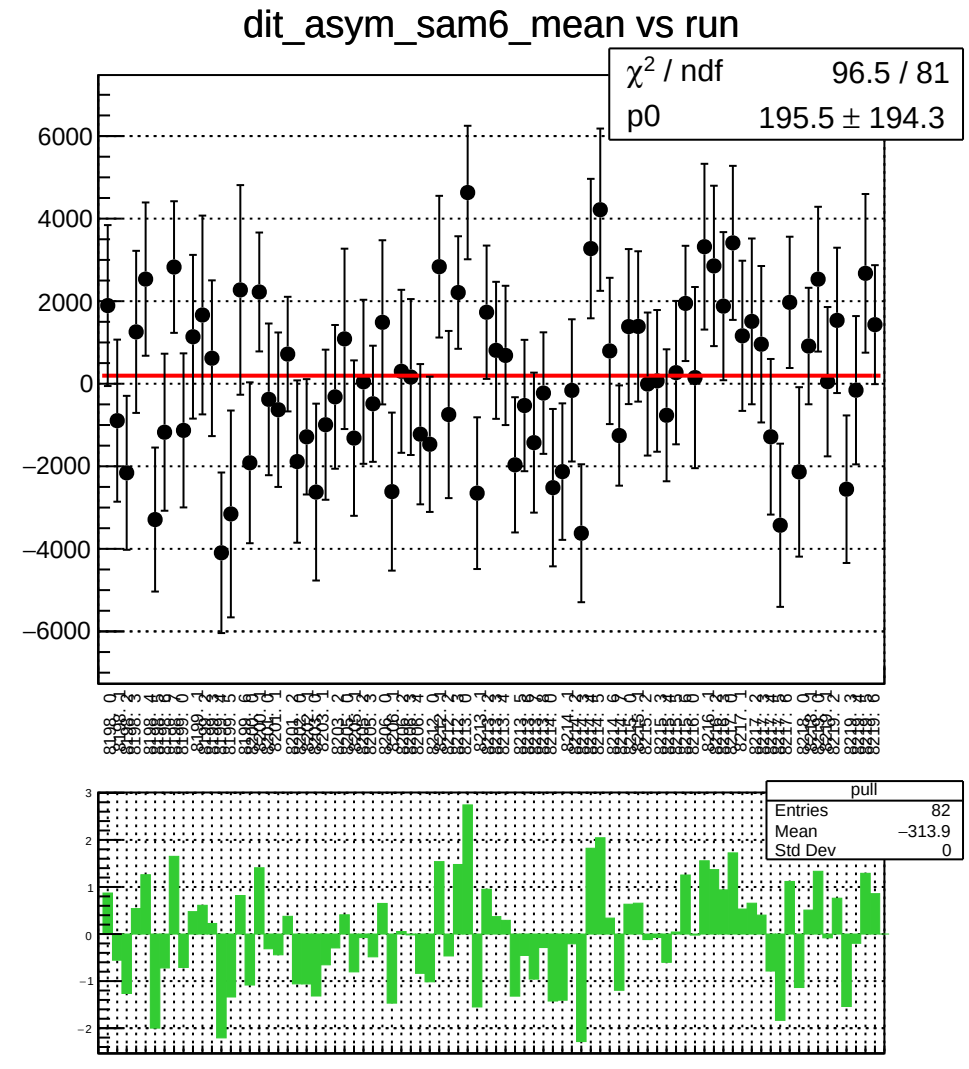
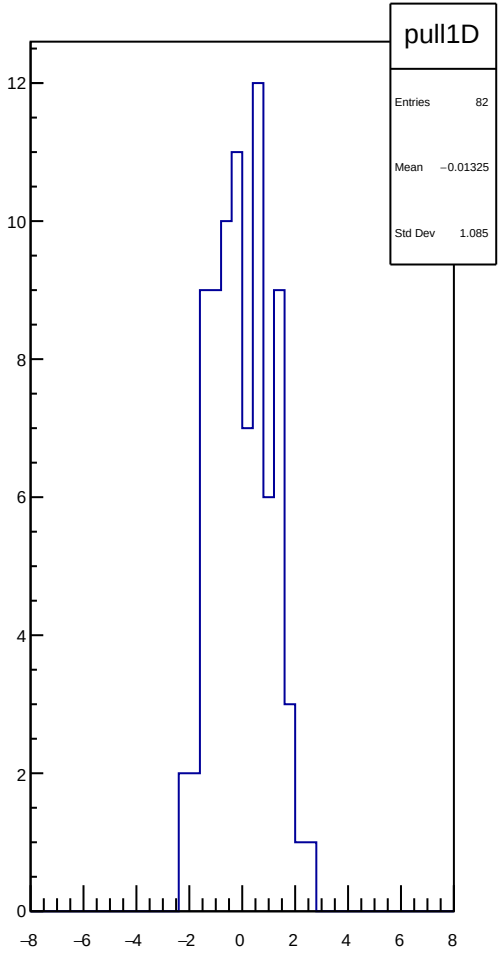
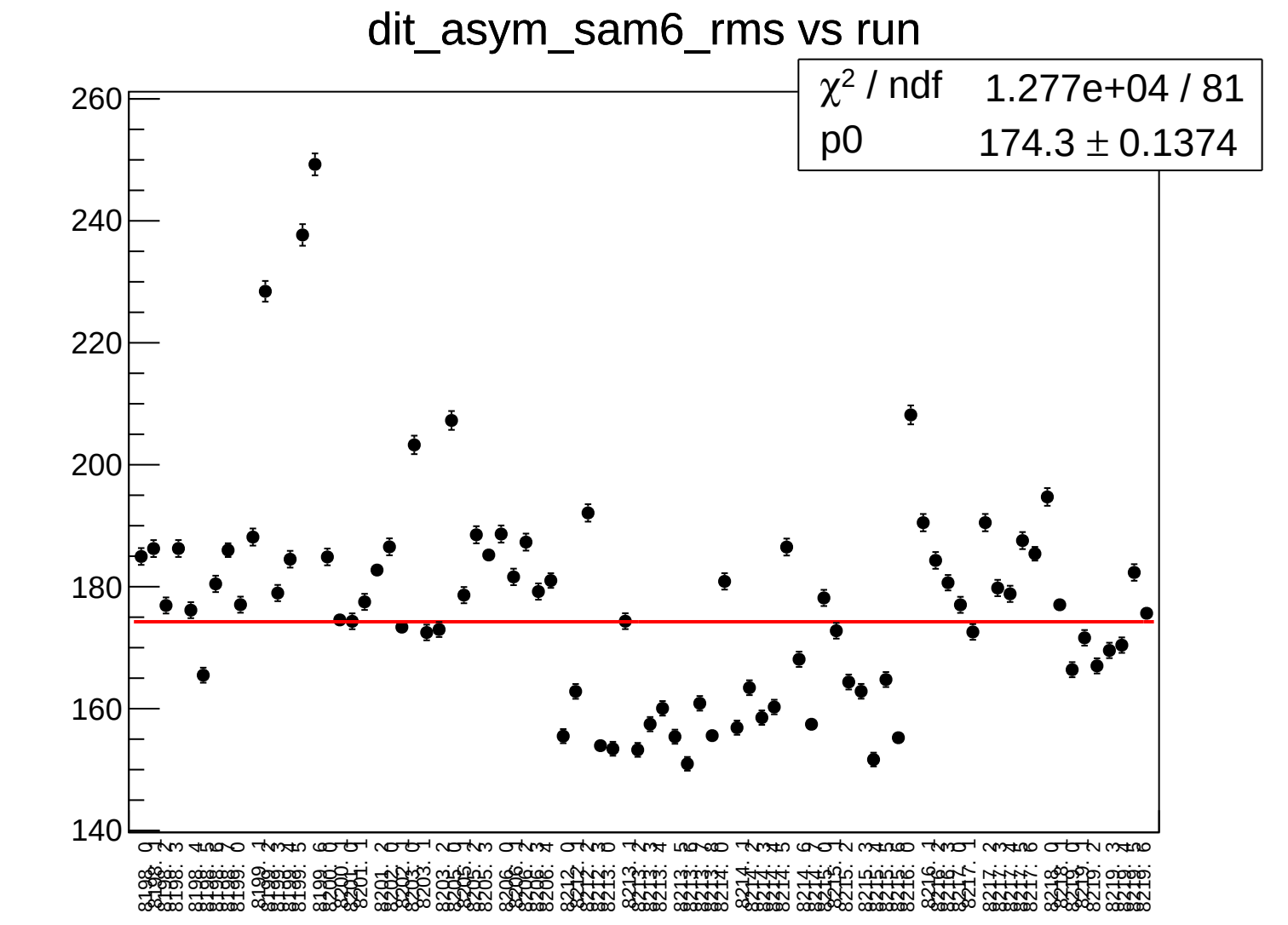
160
150
140
130

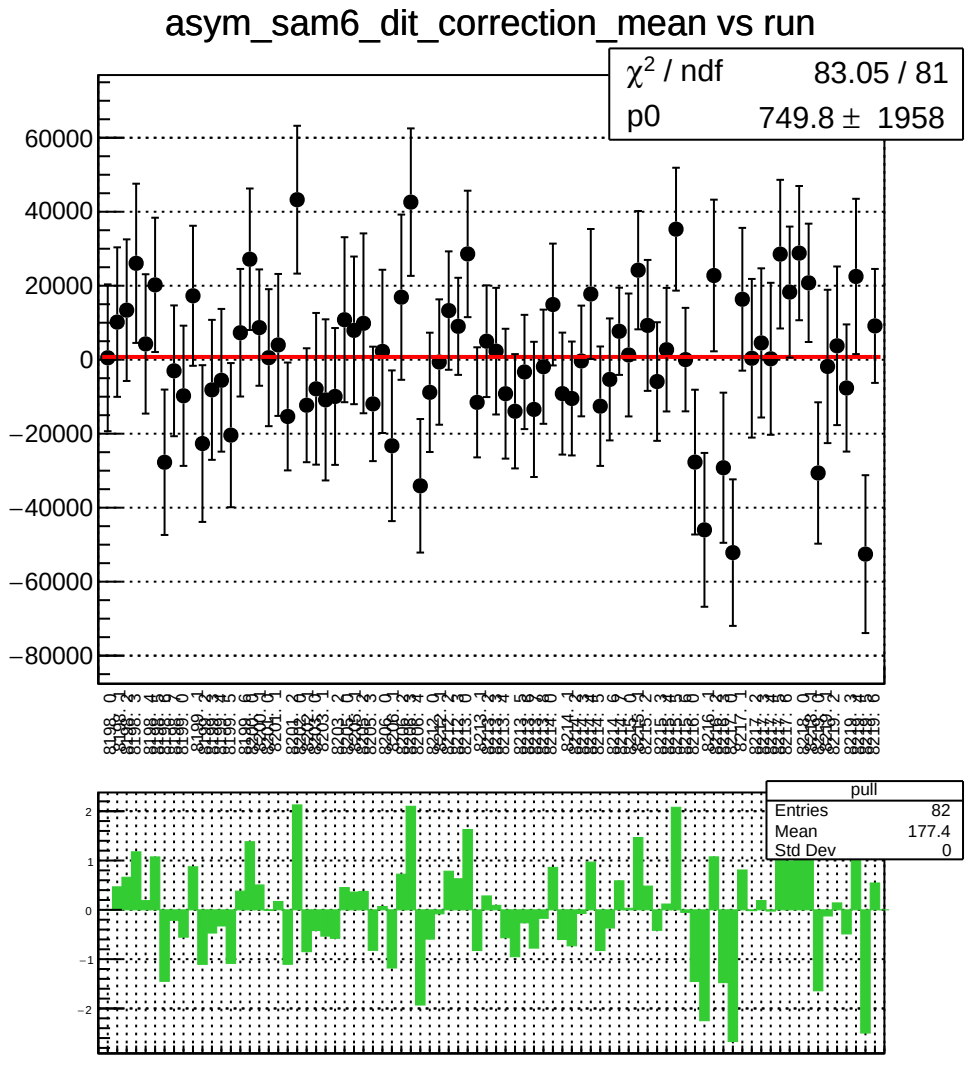

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 82.45 / 81
p0 879.6 ± 1964
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 173
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.008258
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

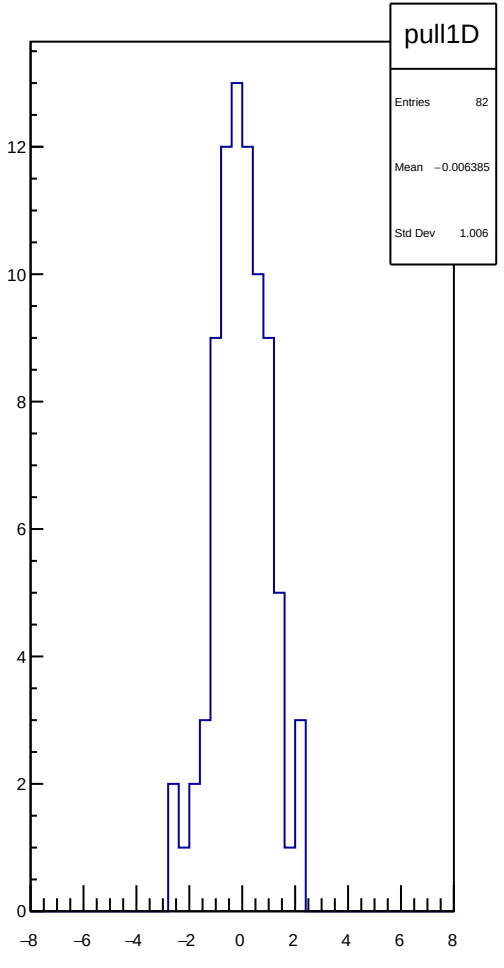

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 2.721e+04 / 81
p0 1753 ± 1.389
2400
2200
2000
1800
1600
1400

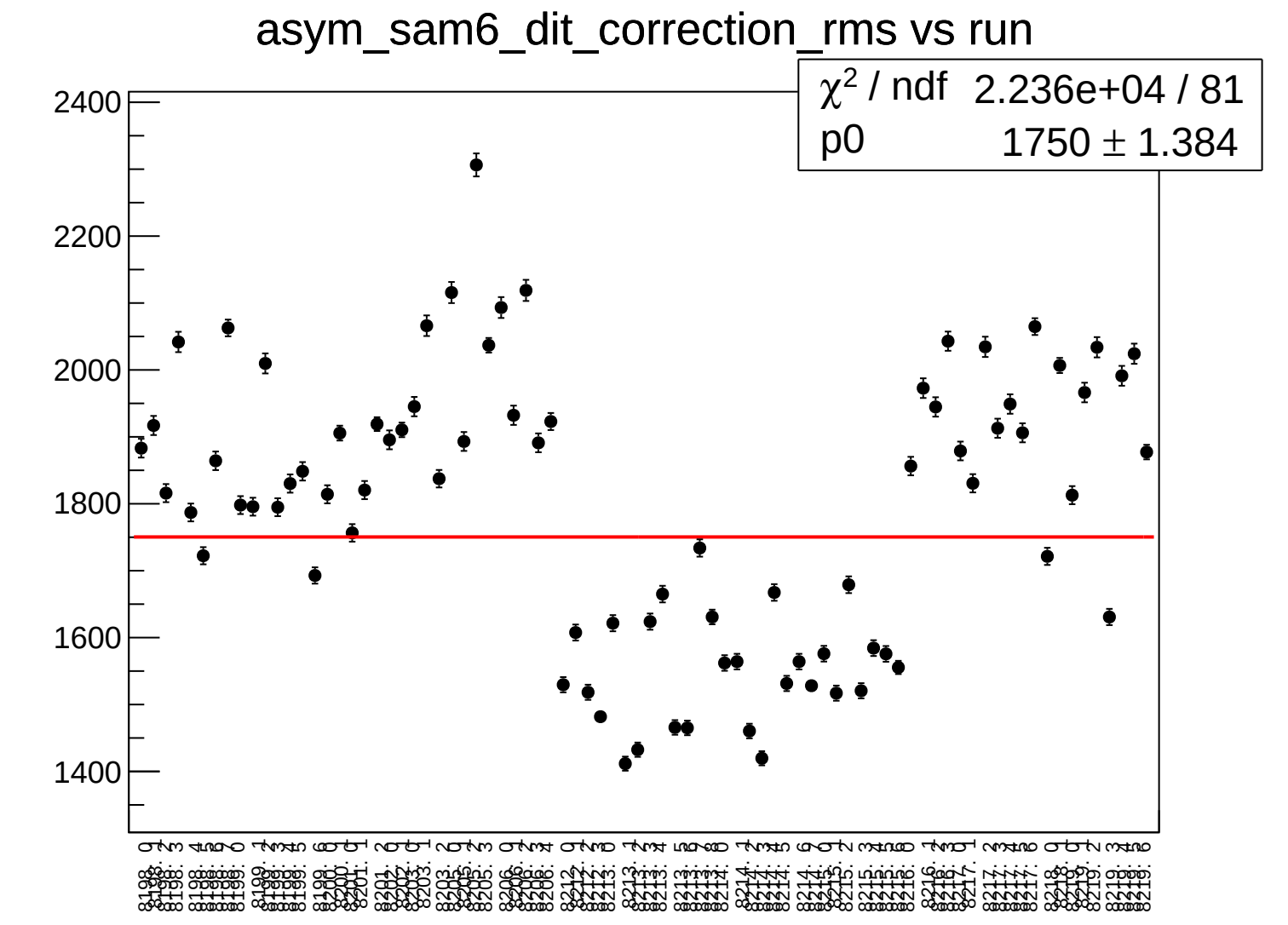

dit_asym_sam6_mean vs run
χ² / ndf 96.5 / 81
p0 195.5 ± 194.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −313.9
Std Dev 0
3
2
1
0
−1
−2

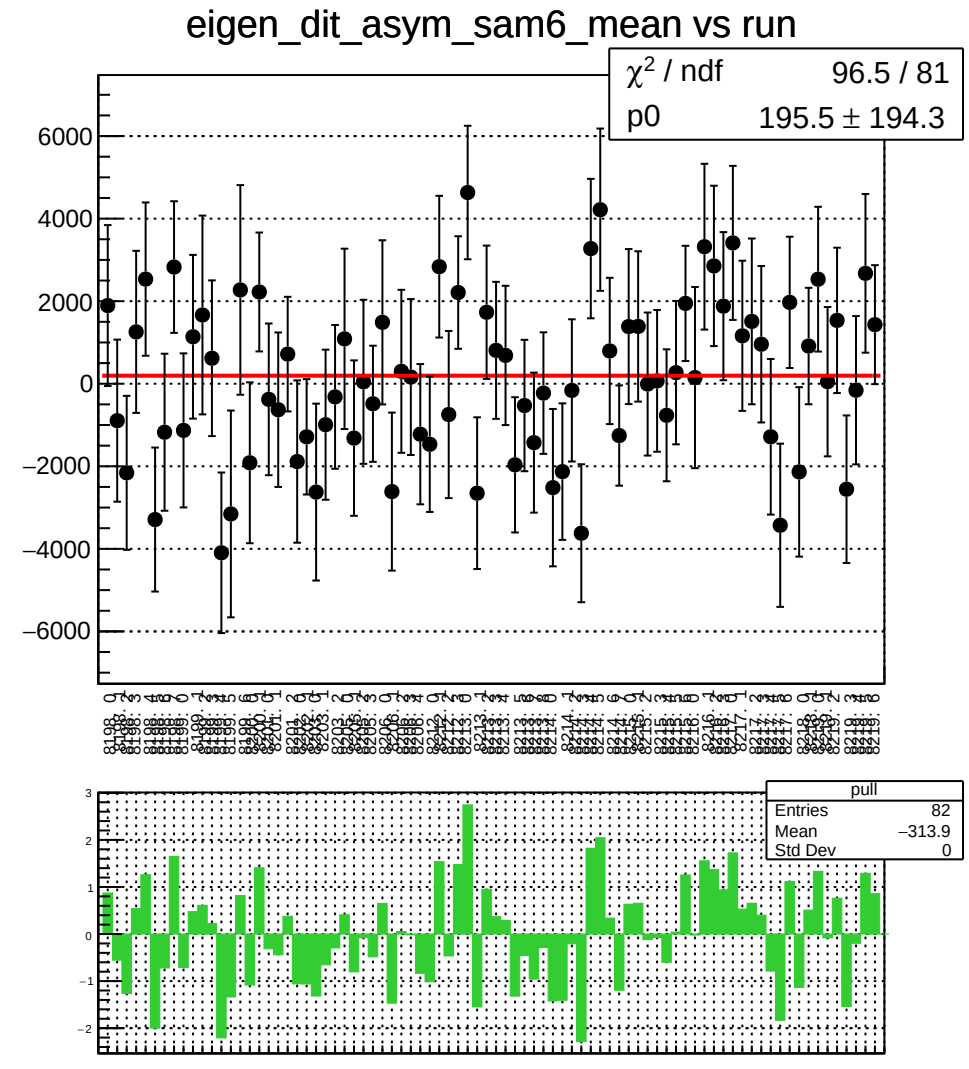

pull1D
Entries 82
Mean −0.01325
Std Dev 1.085
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

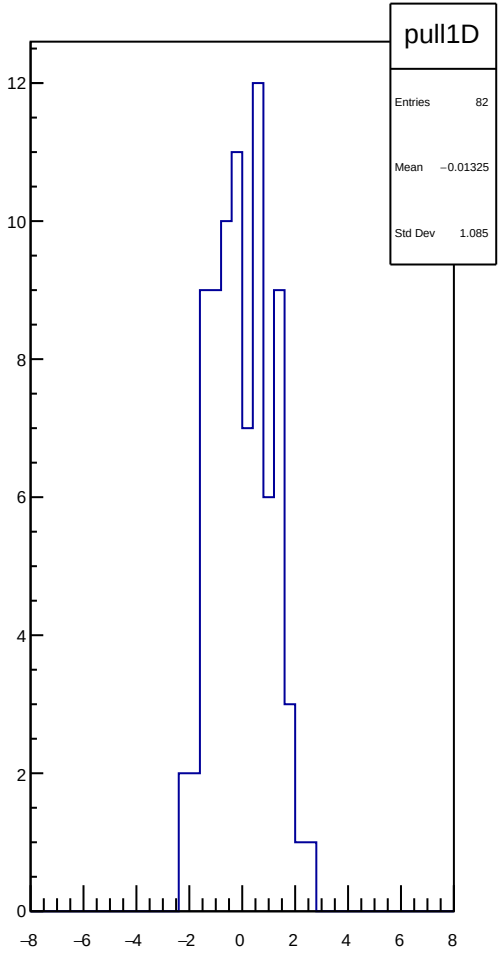

dit_asym_sam6_rms vs run
χ² / ndf 1.277e+04 / 81
p0 174.3 ± 0.1374
260
240
220
200
180
160
140

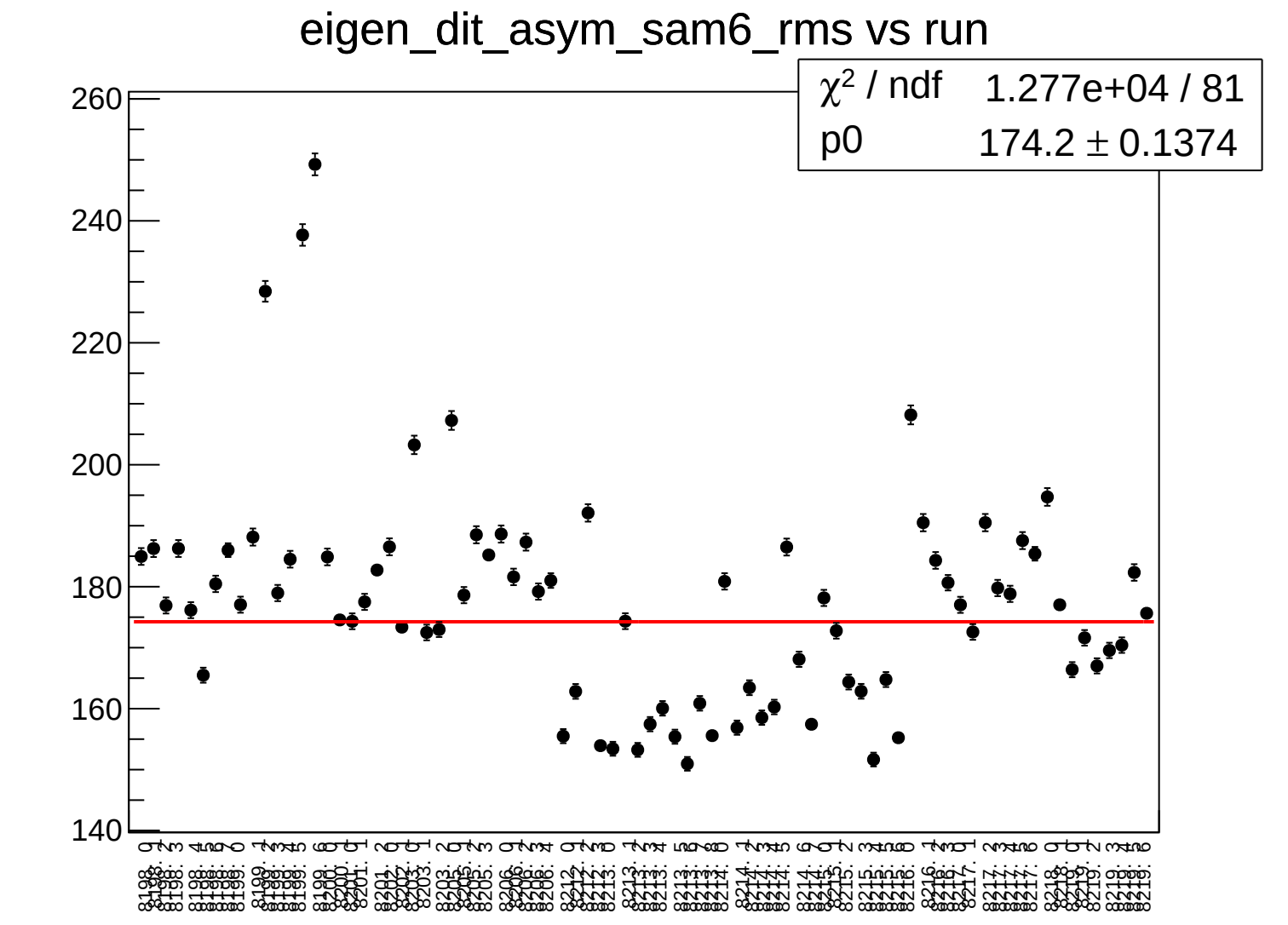

asym_sam6_dit_correction_mean vs run
χ² / ndf 83.05 / 81
p0 749.8 ± 1958
pull
Entries 82
Mean 177.4
Std Dev 0

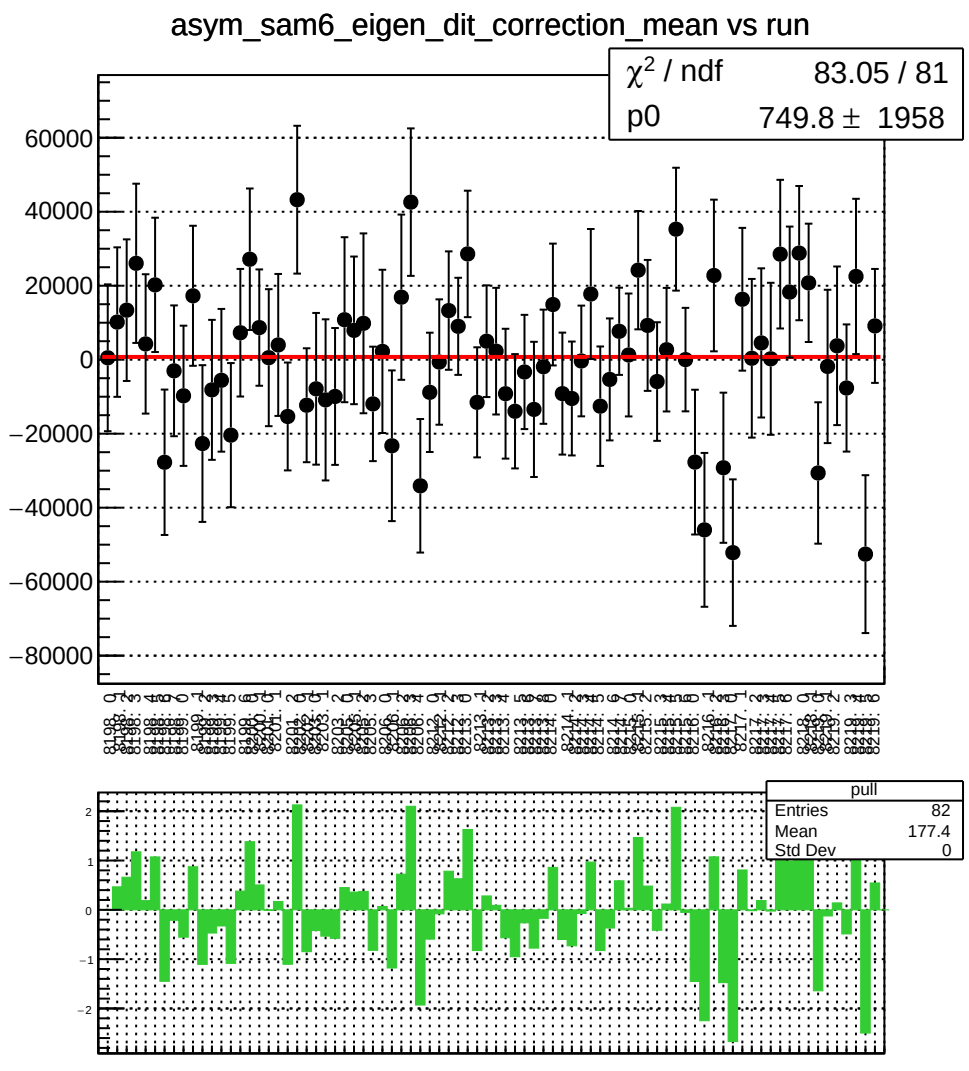

pull1D
Entries 82
Mean −0.006385
Std Dev 1.006

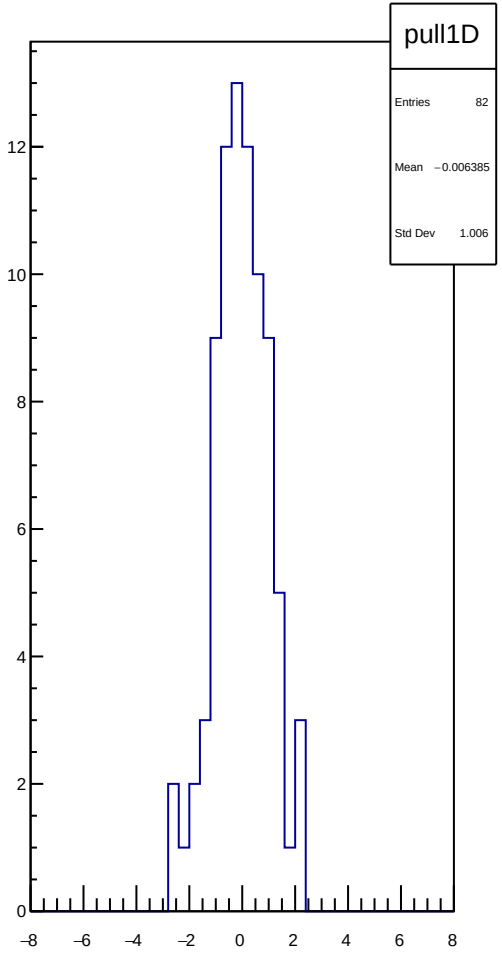

asym_sam6_dit_correction_rms vs run
χ² / ndf 2.236e+04 / 81
p0 1750 ± 1.384
2400
2200
2000
1800
1600
1400

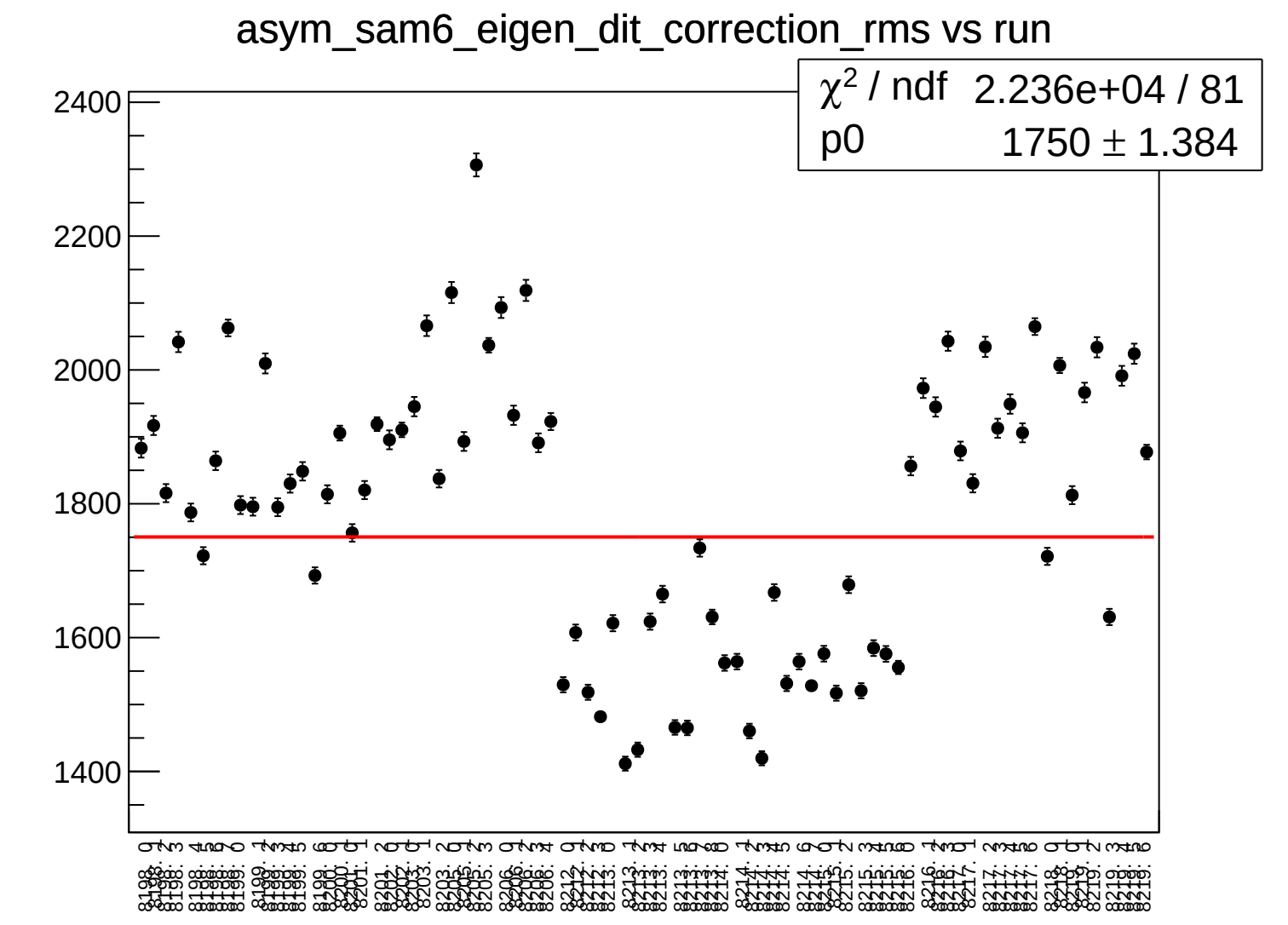

eigen_dit_asym_sam6_mean vs run
χ² / ndf 96.5 / 81
p0 195.5 ± 194.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −313.9
Std Dev 0
3
2
1
0
−1
−2

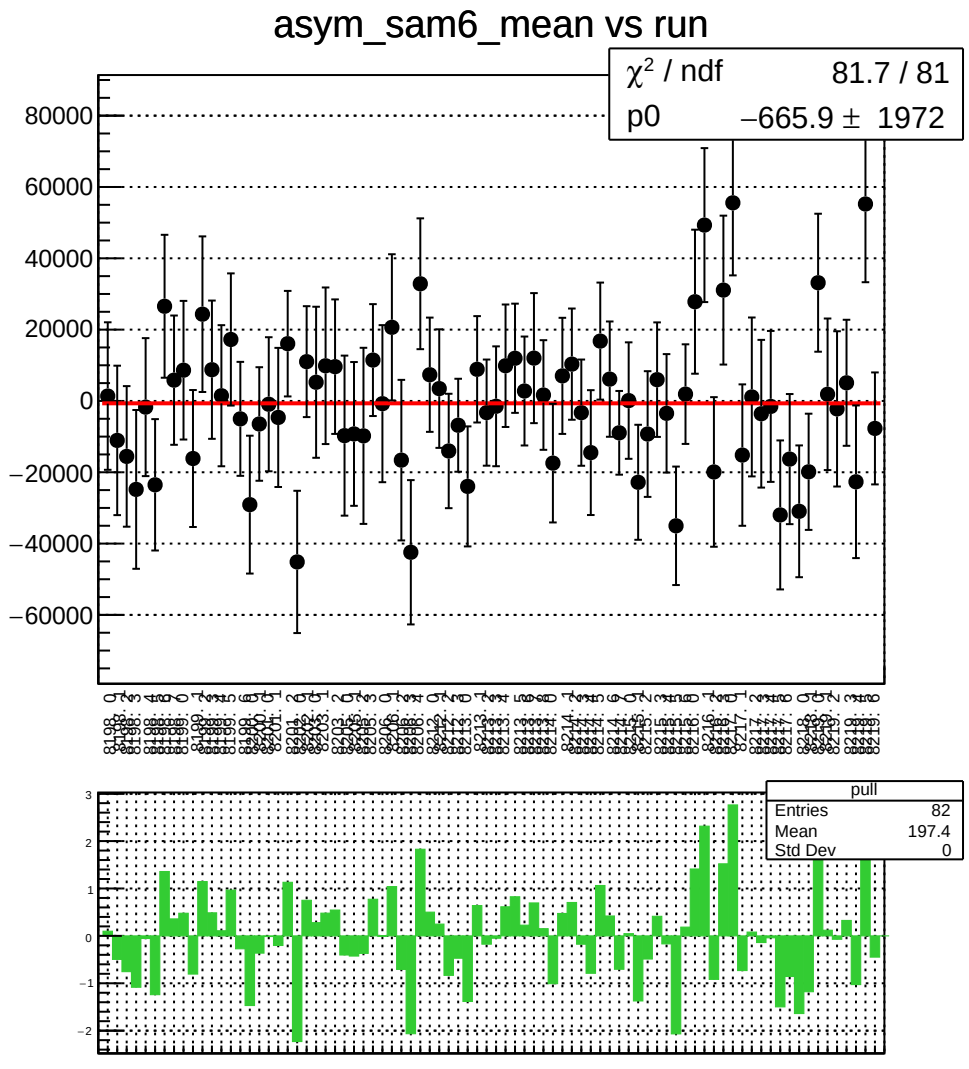

pull1D
Entries 82
Mean −0.01325
Std Dev 1.085
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

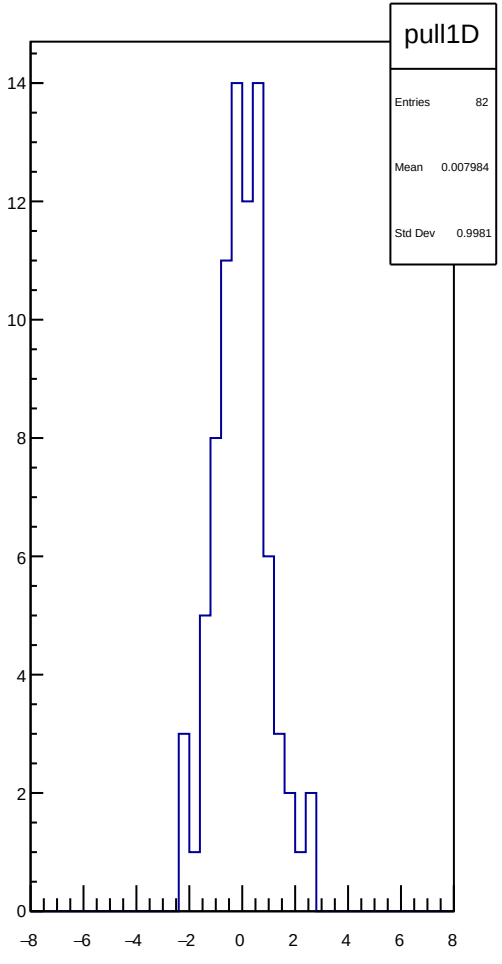

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1.277e+04 / 81
p0 174.2 ± 0.1374
260
240
220
200
180
160
140

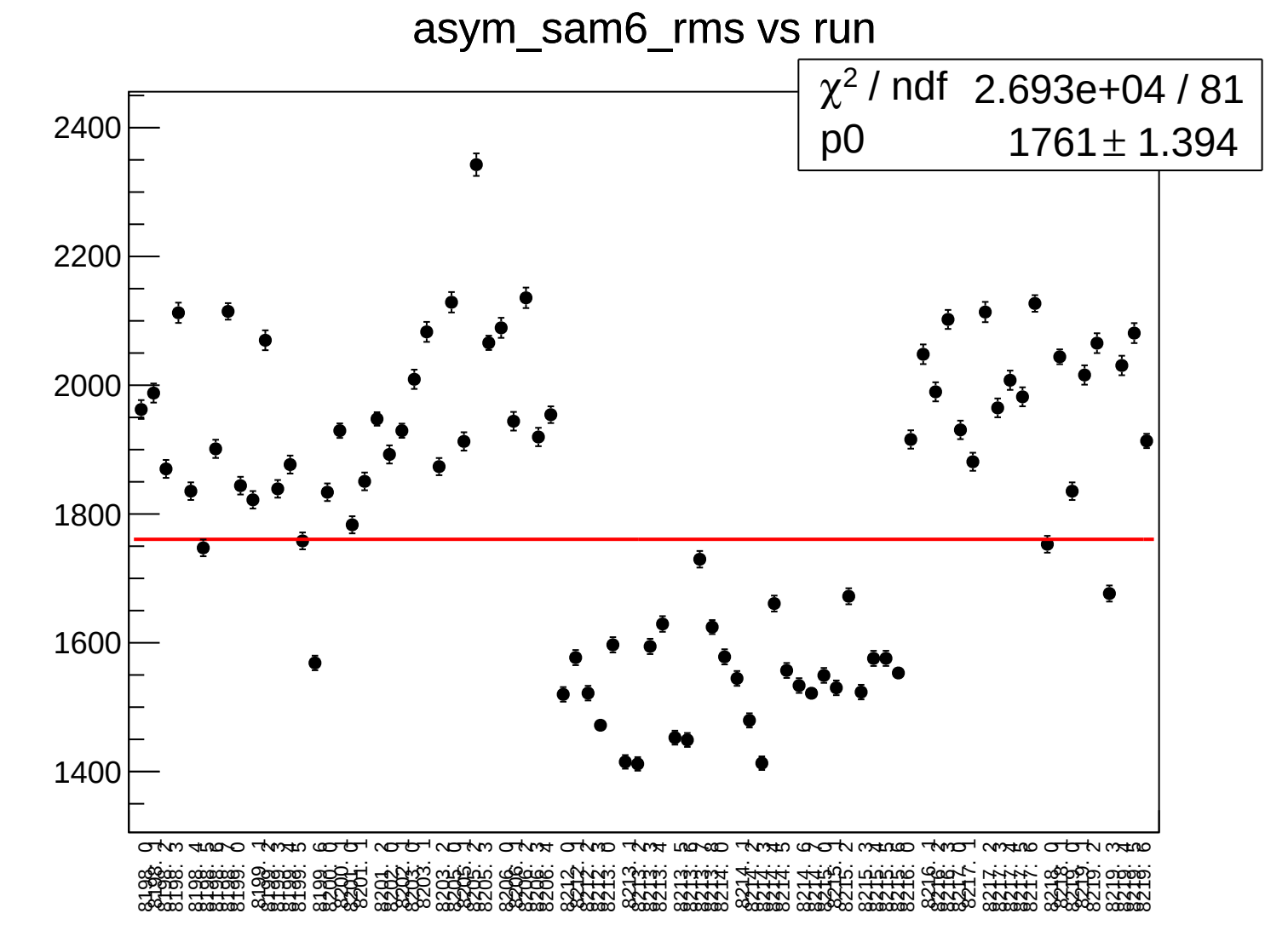

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 83.05 / 81
p0 749.8 ± 1958
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 177.4
Std Dev 0
2
1
0
−1
−2

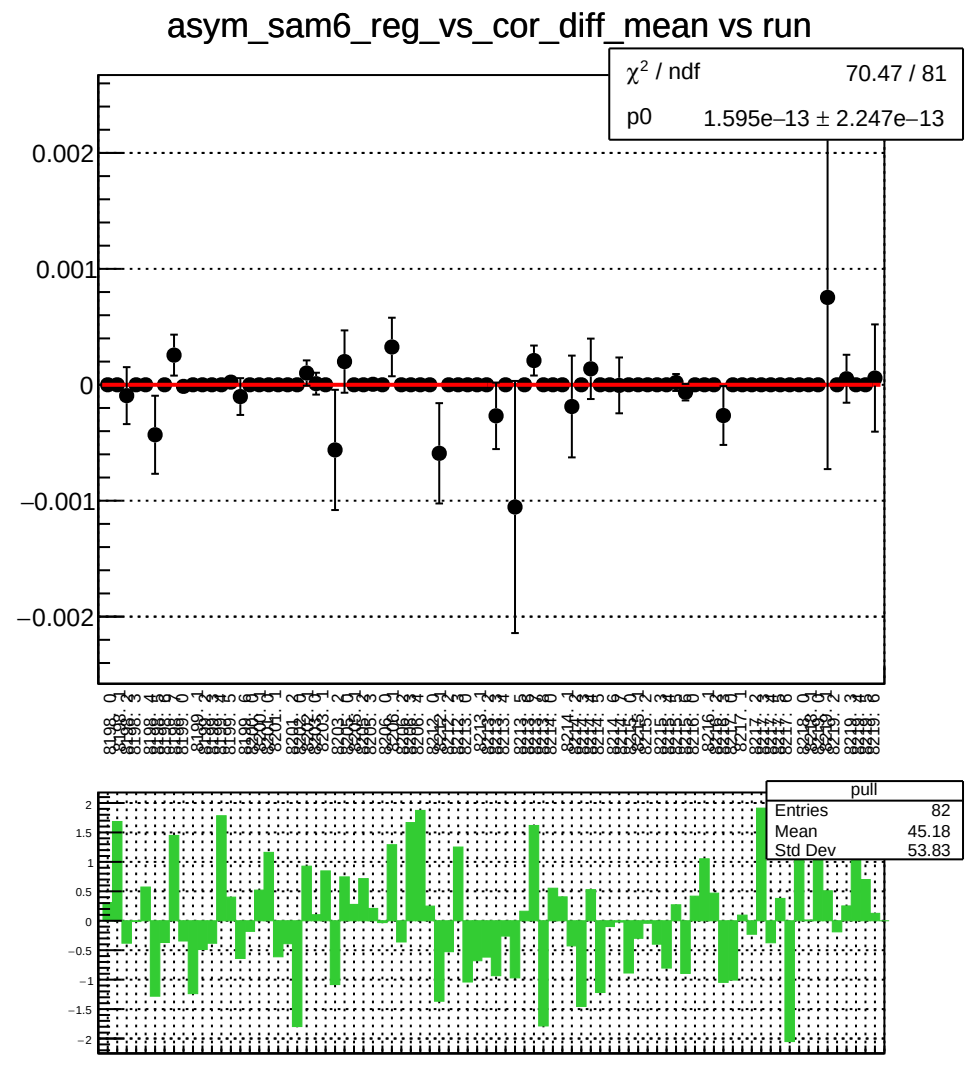

pull1D
Entries 82
Mean −0.006385
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

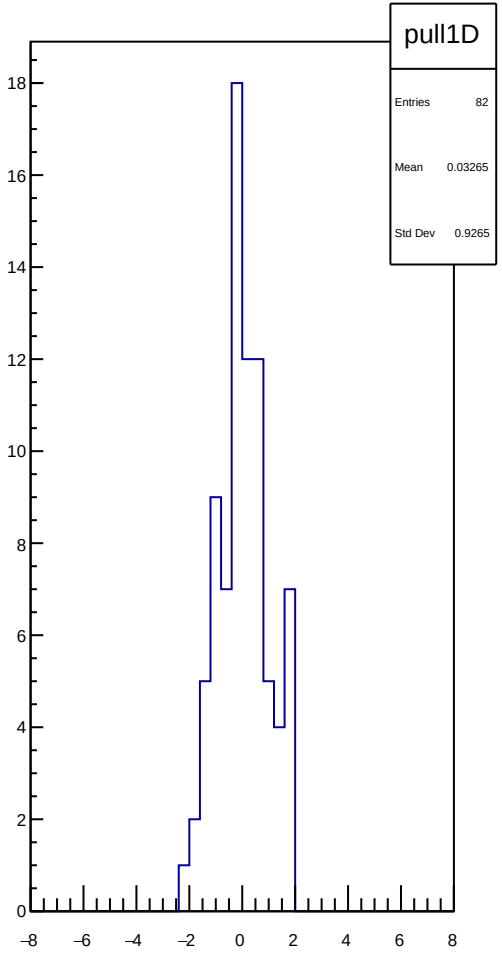

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 2.236e+04 / 81
p0 1750 ± 1.384
2400
2200
2000
1800
1600
1400

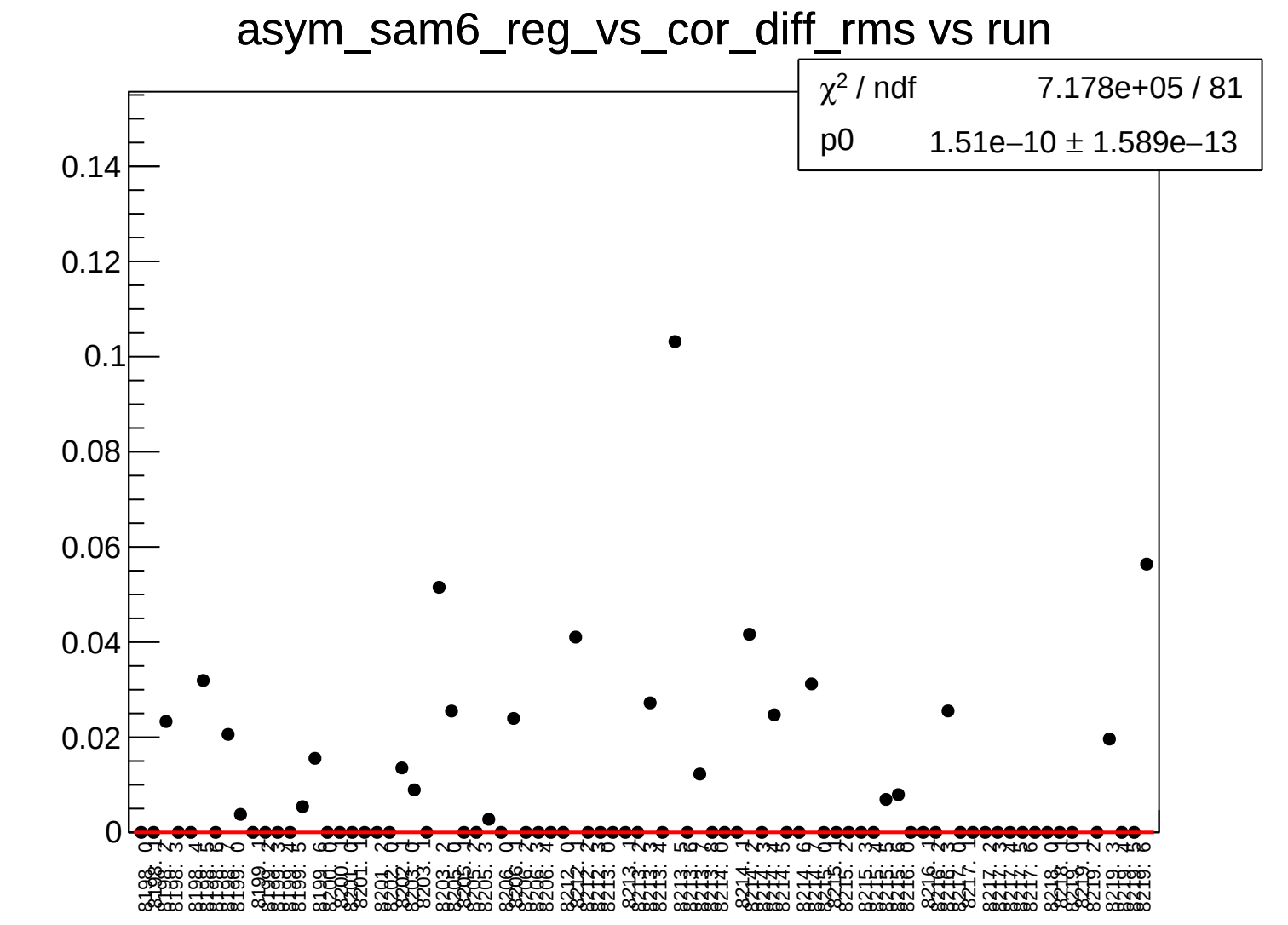

asym_sam6_mean vs run
χ² / ndf 81.7 / 81
p0 −665.9 ± 1972
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 197.4
Std Dev 0
3
2
1
0
−1
−2

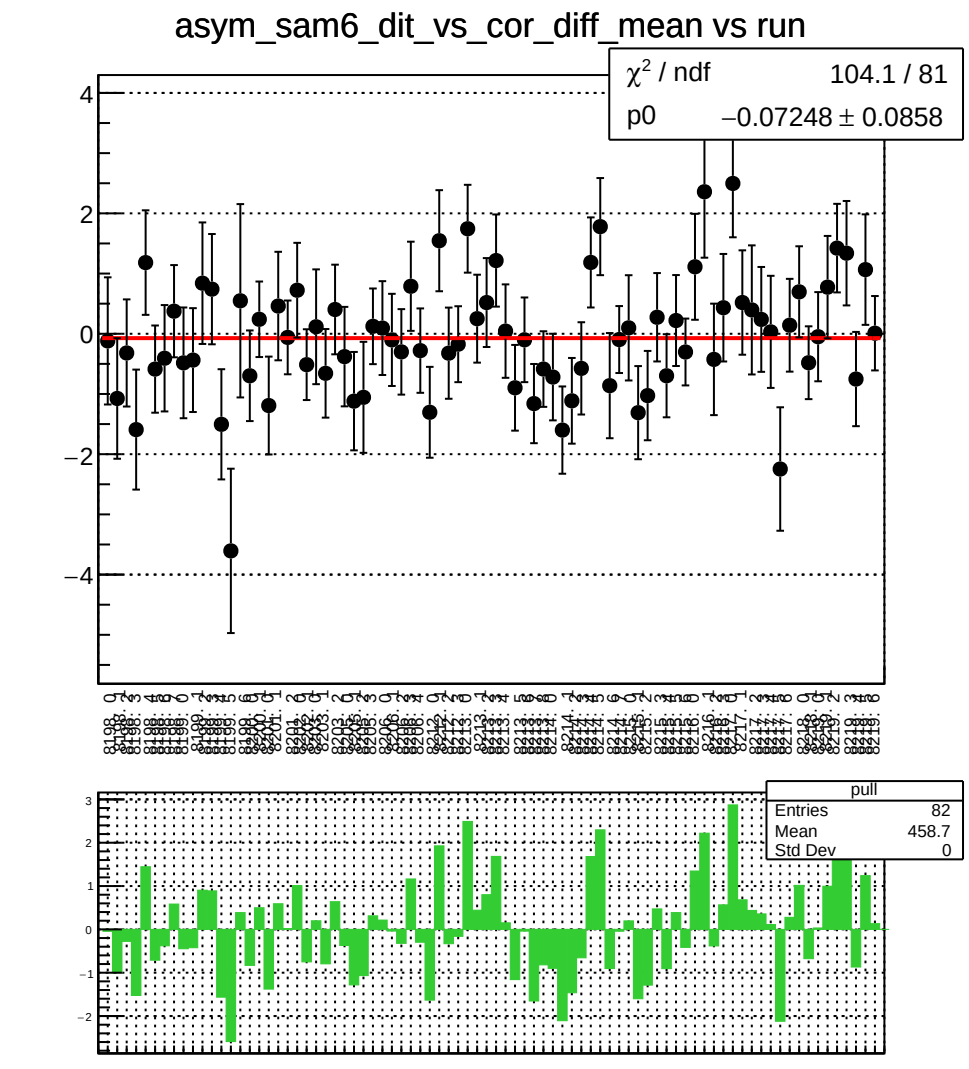

pull1D
Entries 82
Mean 0.007984
Std Dev 0.9981
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

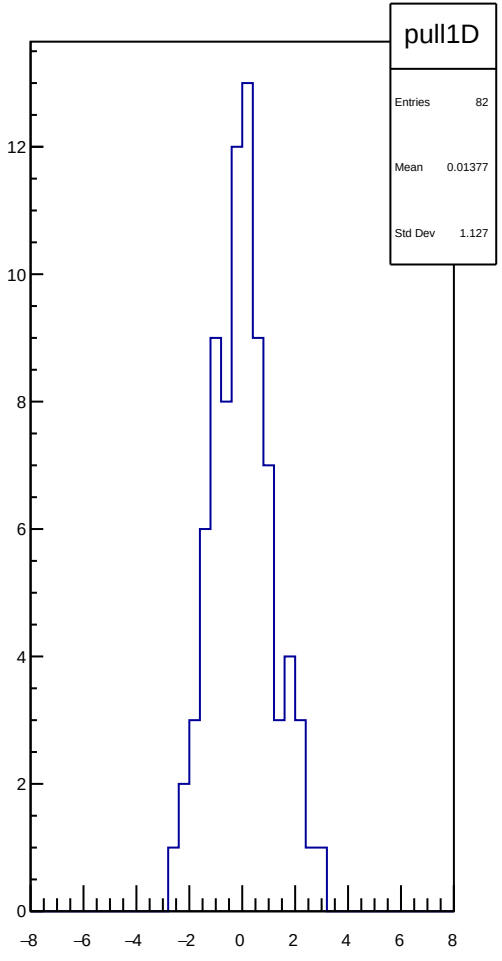

asym_sam6_rms vs run
χ² / ndf 2.693e+04 / 81
p0 1761 ± 1.394
2400
2200
2000
1800
1600
1400

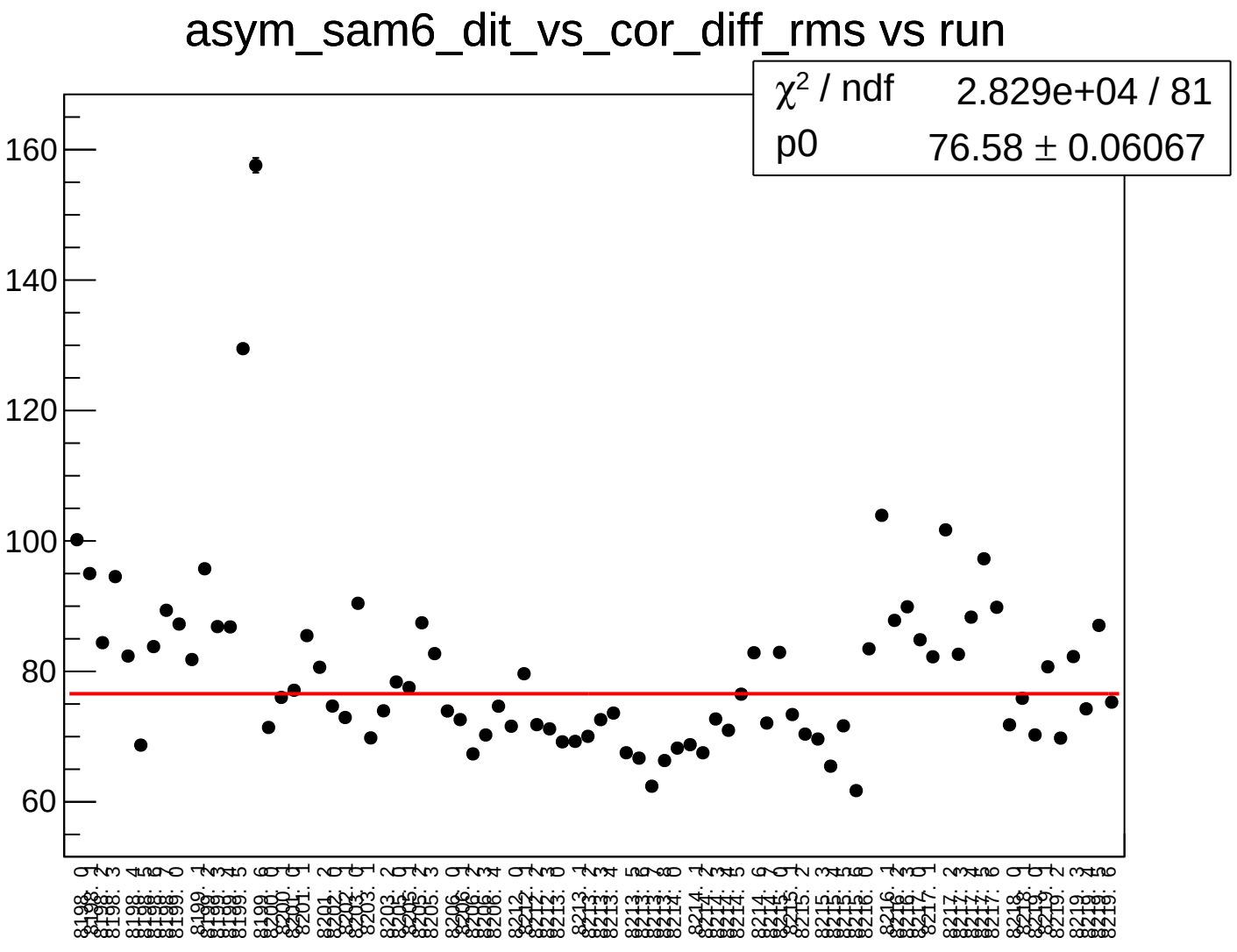

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 70.47 / 81
p0 1.595e−13 ± 2.247e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 82
Mean 45.18
Std Dev 53.83
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

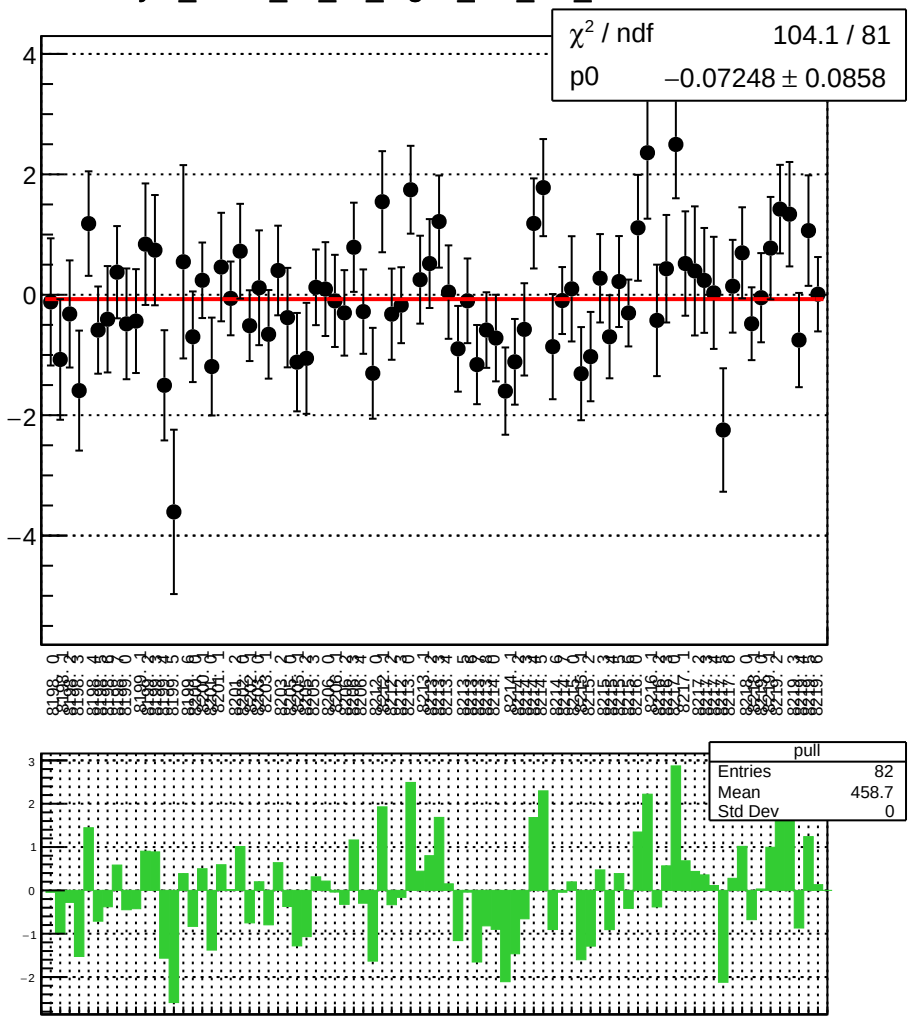

pull1D
Entries 82
Mean 0.03265
Std Dev 0.9265
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

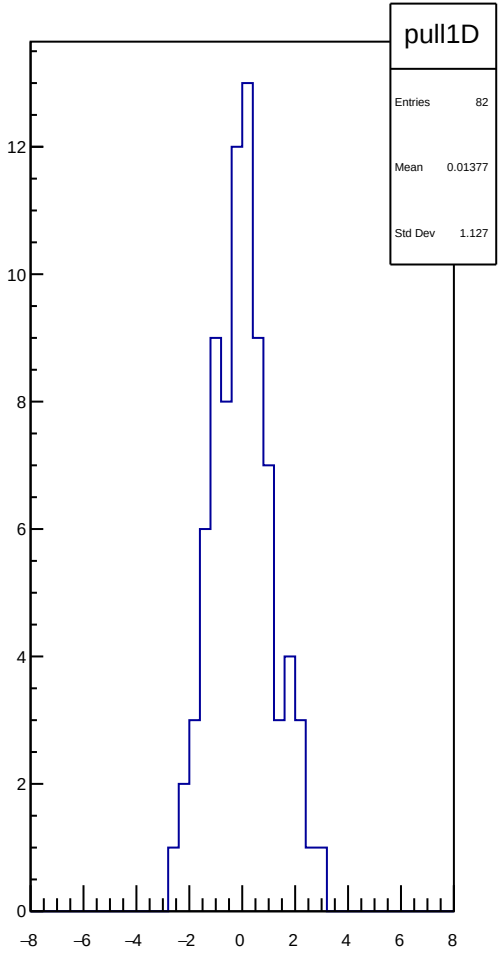

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 7.178e+05 / 81
p0 1.51e−10 ± 1.589e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

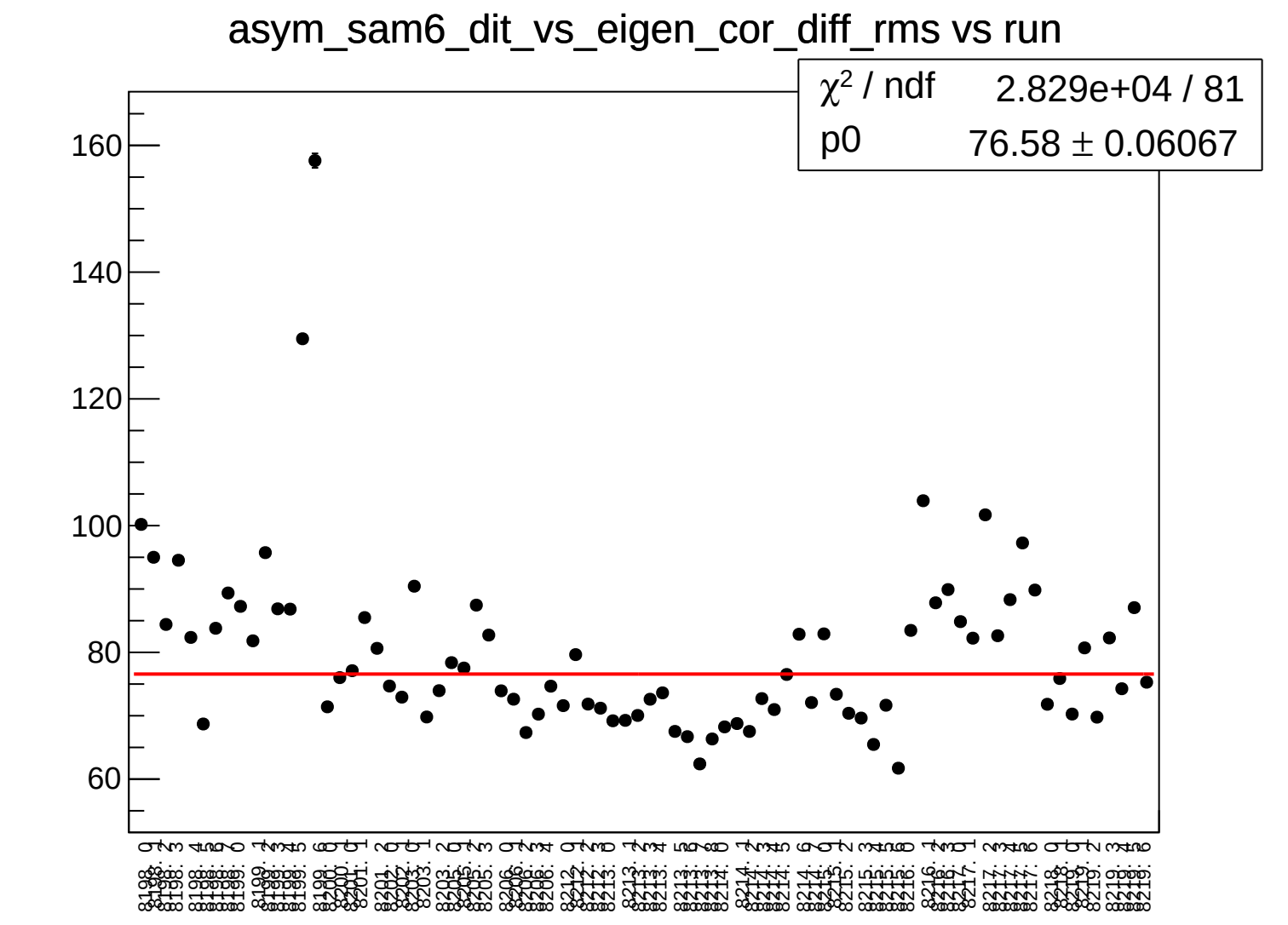

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 81
p0 −0.07248 ± 0.0858
pull
Entries 82
Mean 458.7
Std Dev 0

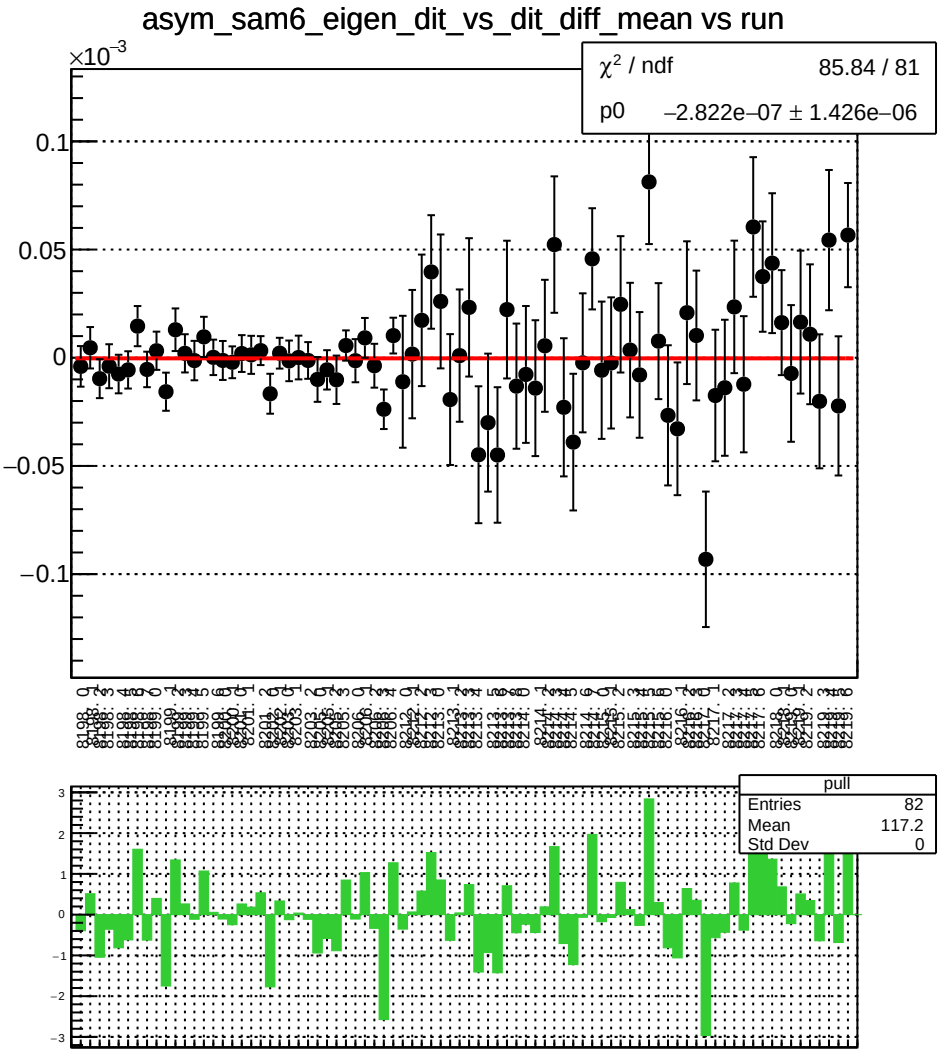

pull1D
Entries 82
Mean 0.01377
Std Dev 1.127

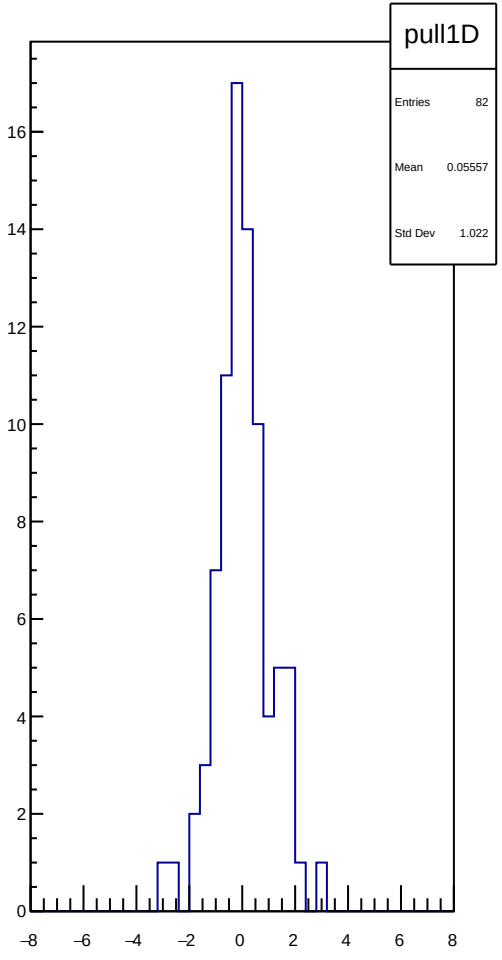

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 2.829e+04 / 81
p0 76.58 ± 0.06067
160
140
120
100
80
60

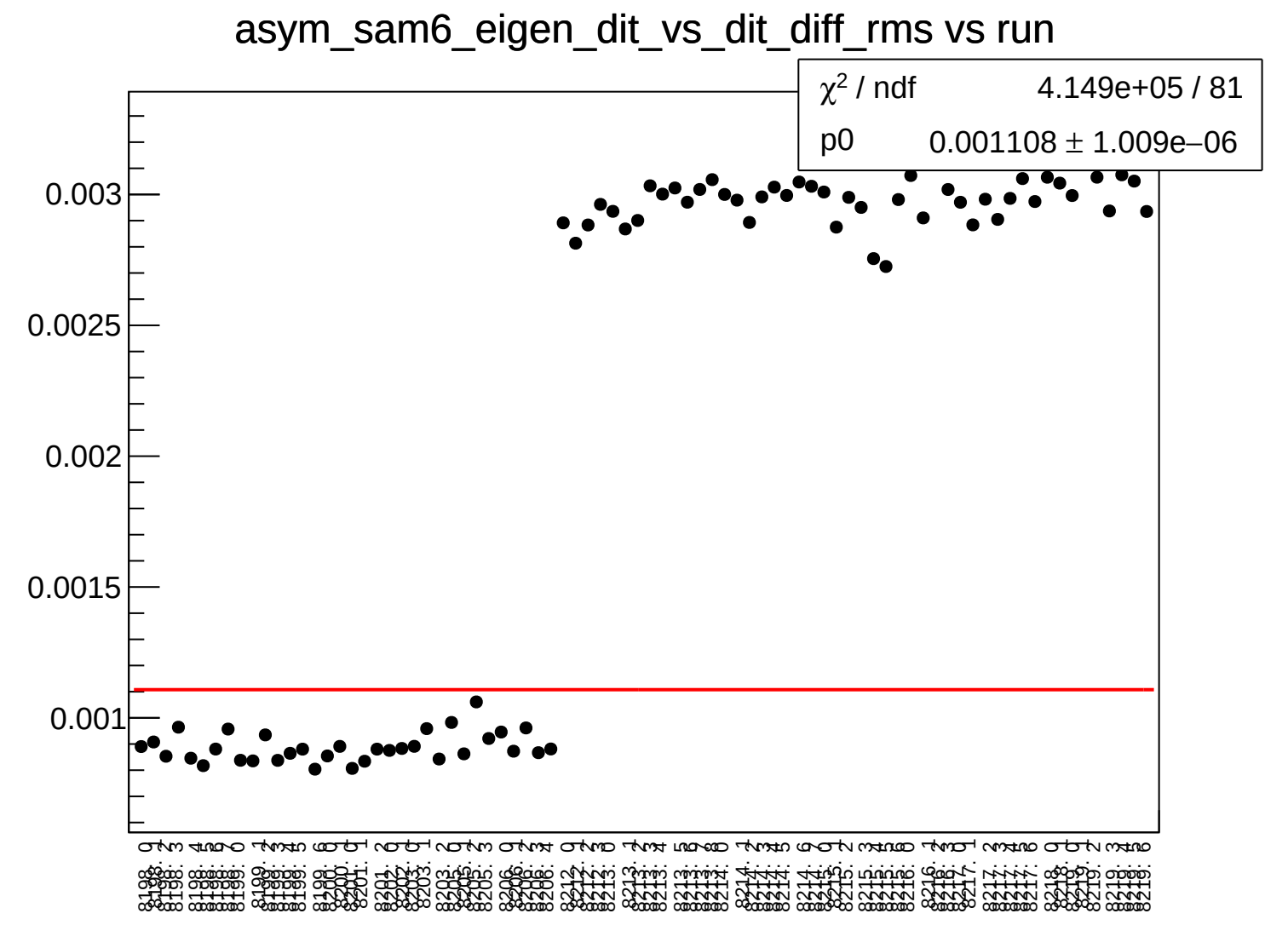

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 81
p0 −0.07248 ± 0.0858
pull
Entries 82
Mean 458.7
Std Dev 0

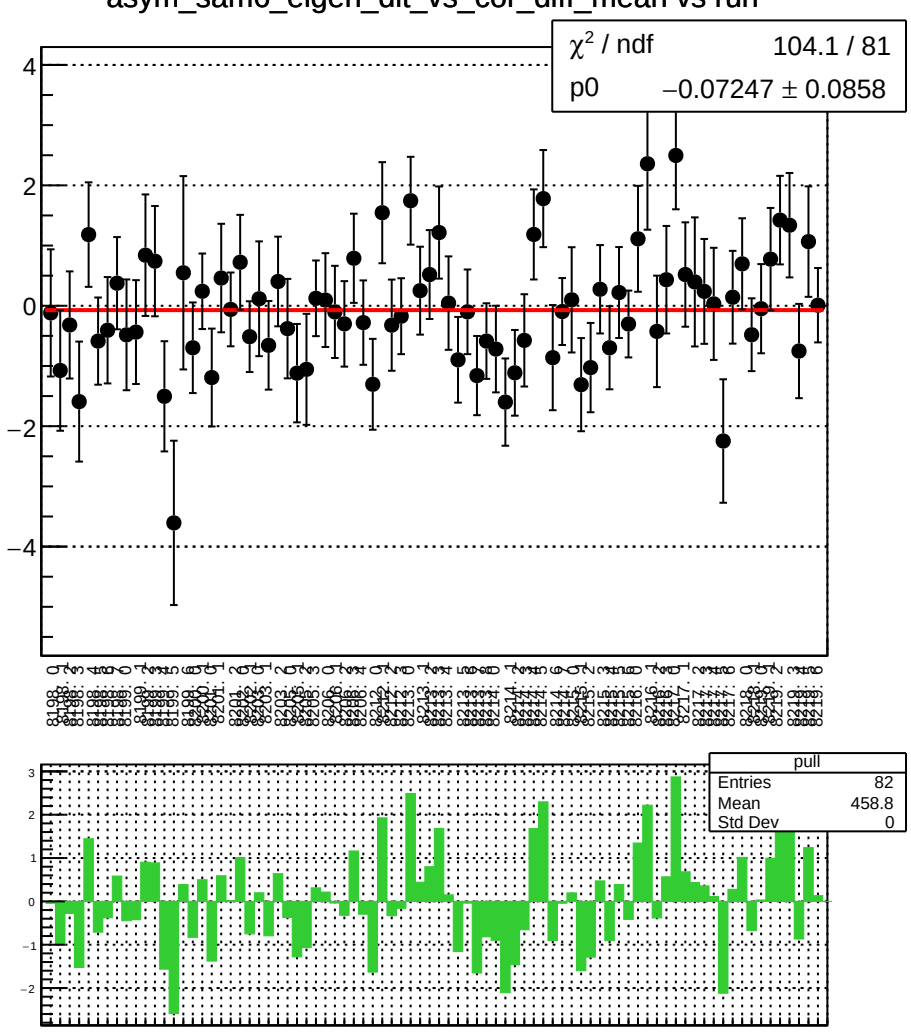

pull1D
Entries 82
Mean 0.01377
Std Dev 1.127

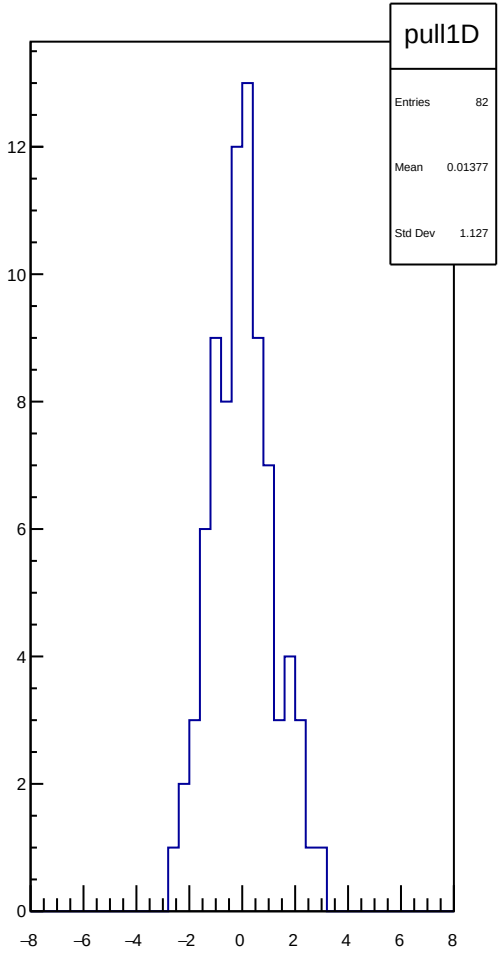

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.829e+04 / 81
p0 76.58 ± 0.06067
160
140
120
100
80
60

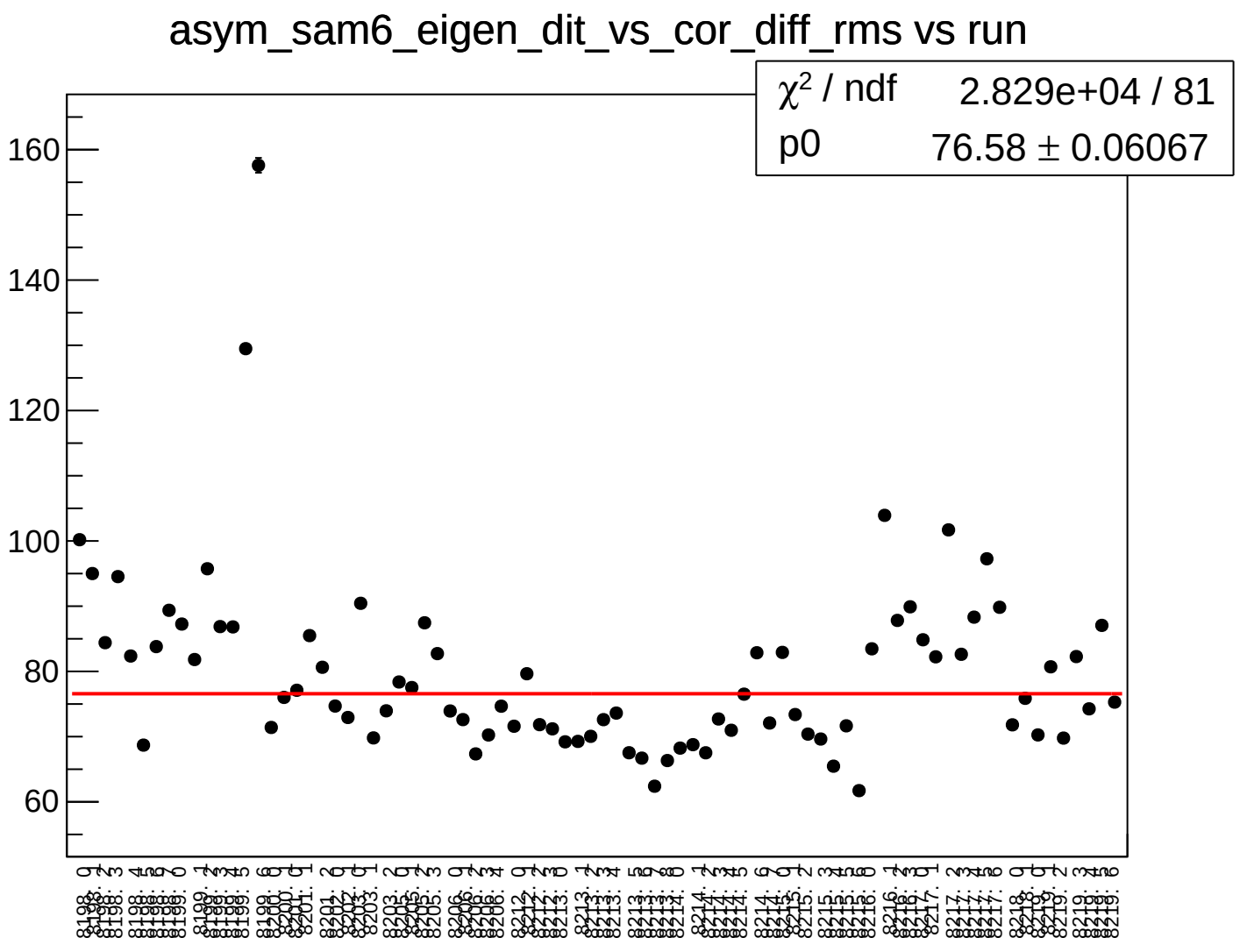

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.84 / 81
p0 −2.822e−07 ± 1.426e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean 117.2
Std Dev 0
3
2
1
0
−1
−2
−3

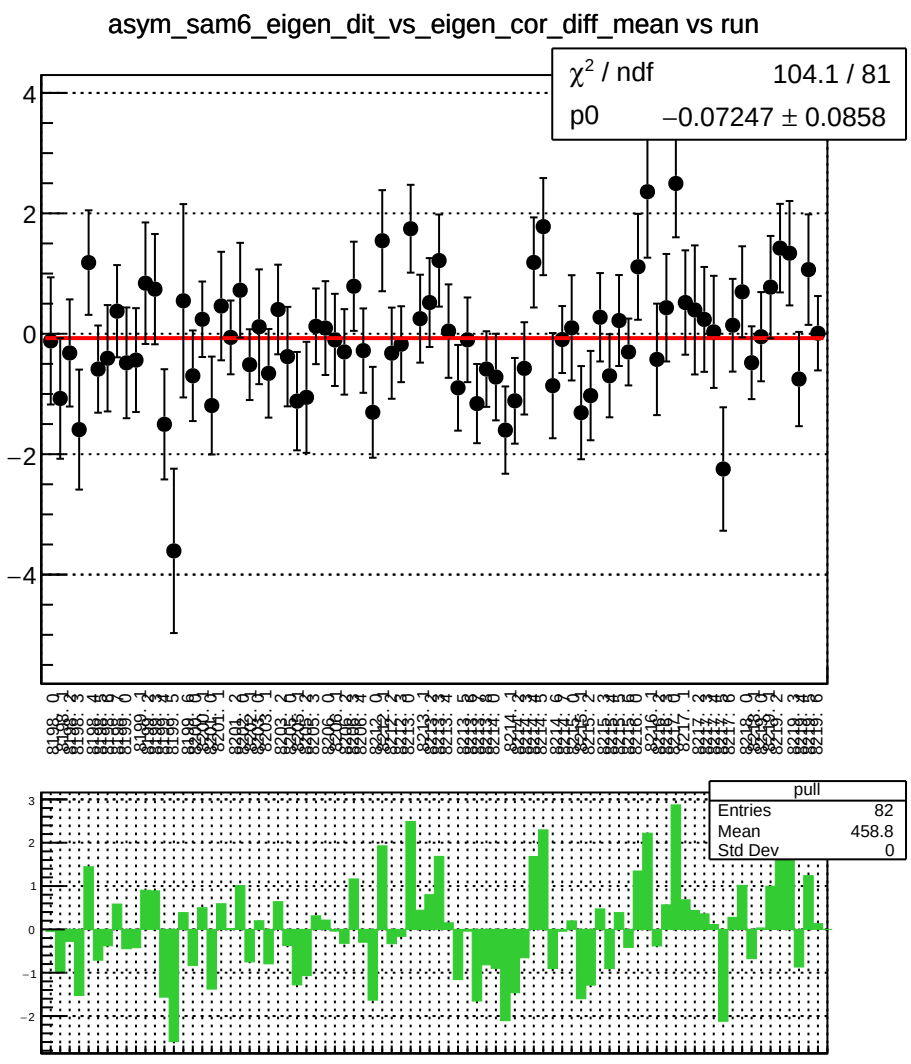

pull1D
Entries 82
Mean 0.05557
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

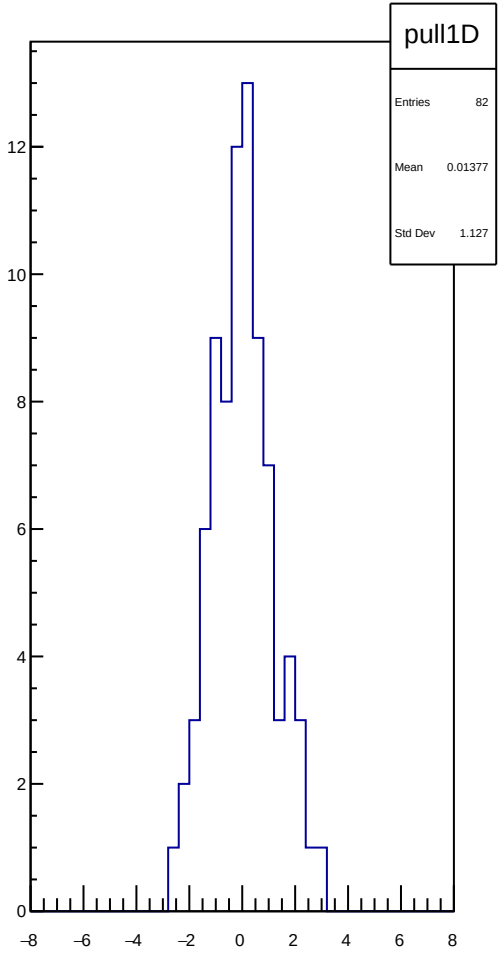

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.149e+05 / 81
p0 0.001108 ± 1.009e−06
0.003
0.0025
0.002
0.0015
0.001

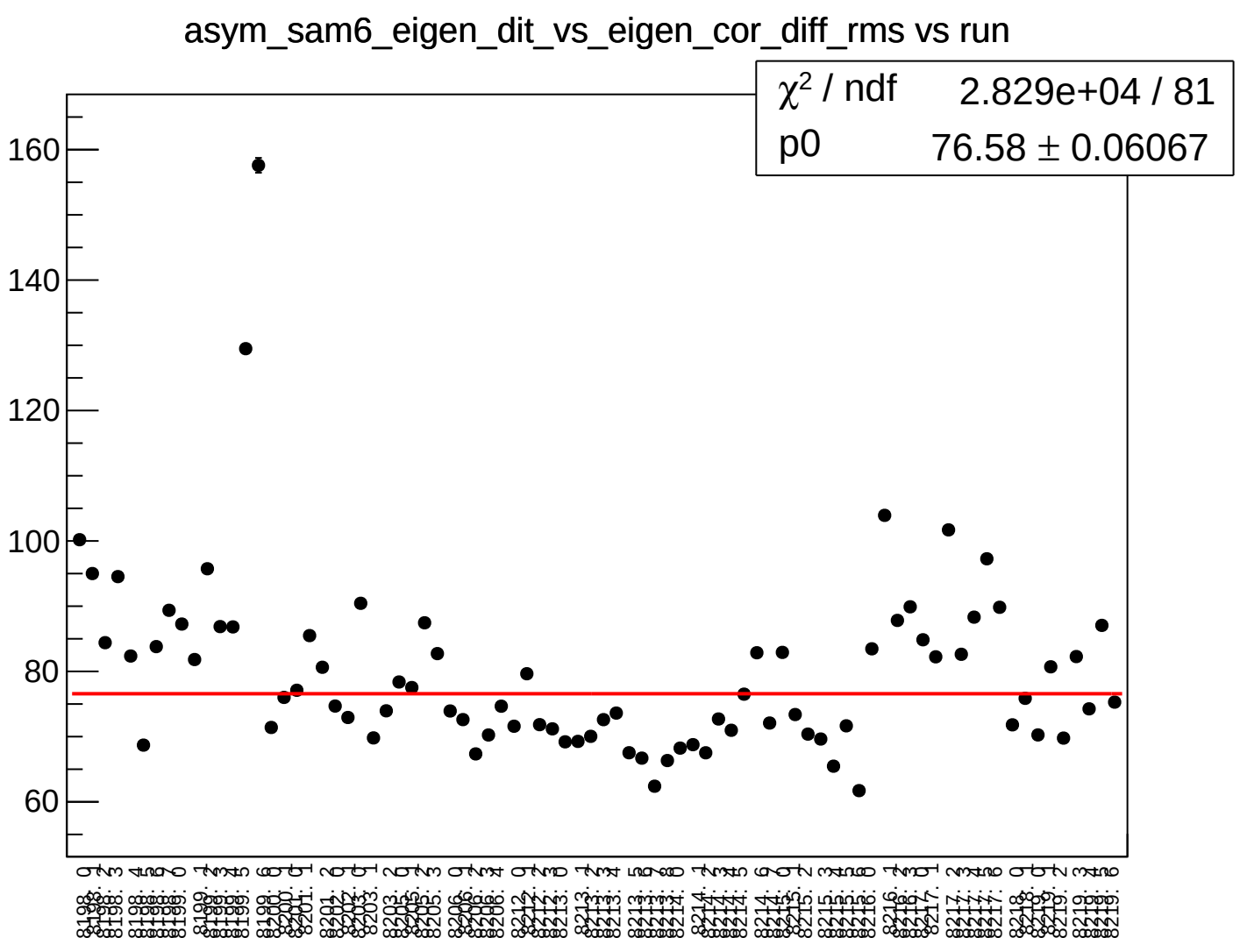

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 81
p0 −0.07247 ± 0.0858
pull
Entries 82
Mean 458.8
Std Dev 0

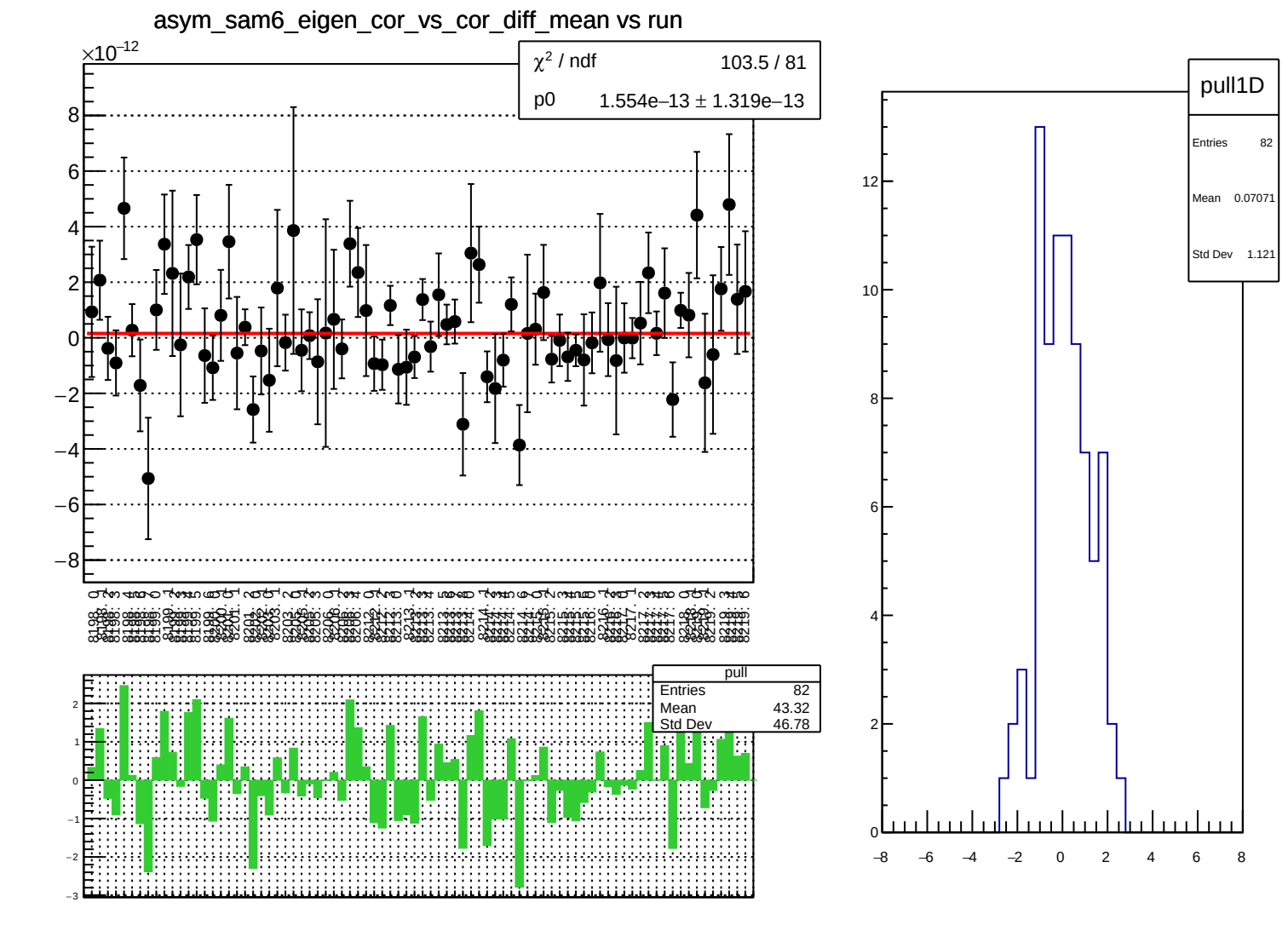

pull1D
Entries 82
Mean 0.01377
Std Dev 1.127

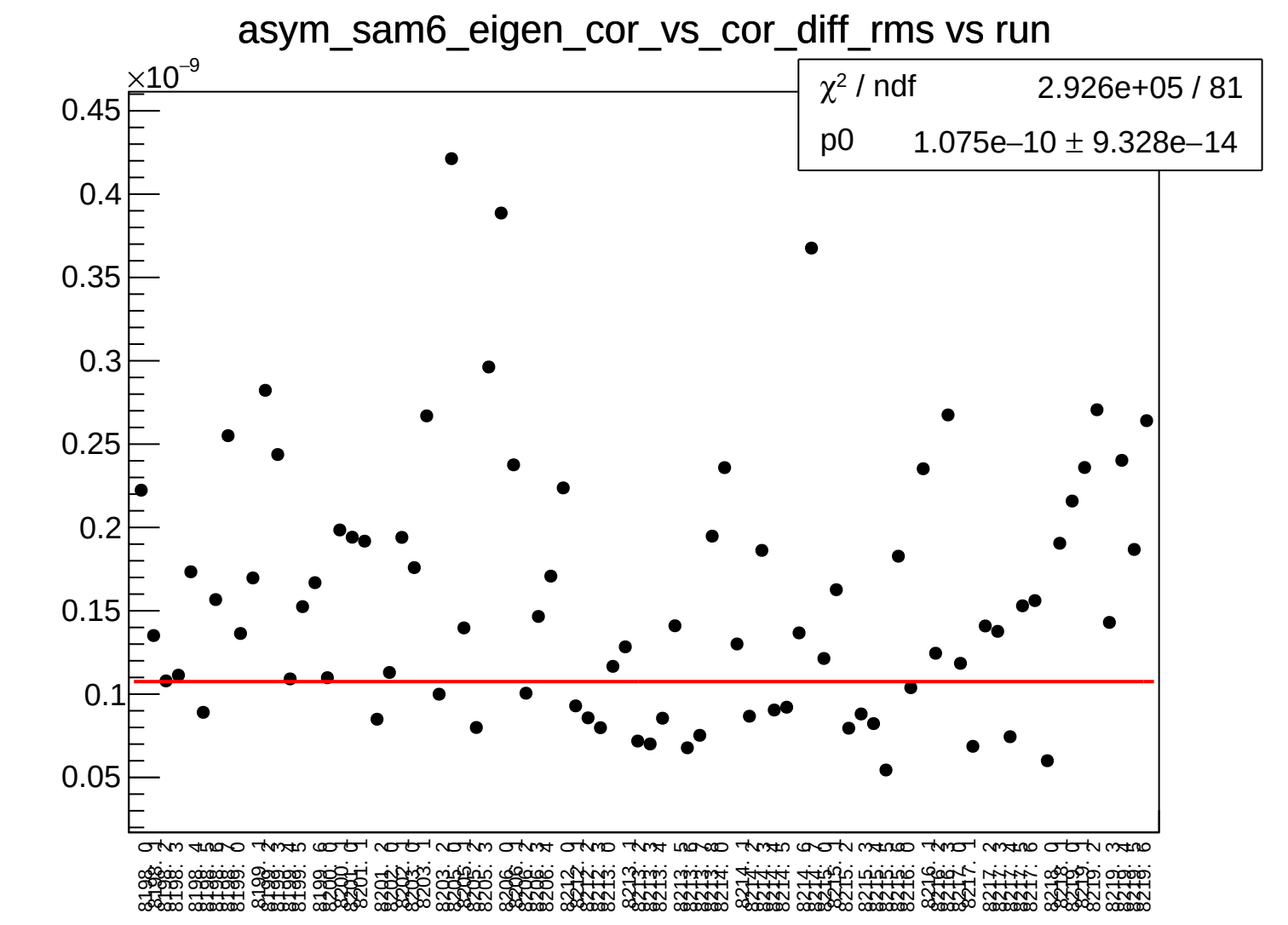

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.829e+04 / 81
p0 76.58 ± 0.06067
160
140
120
100
80
60

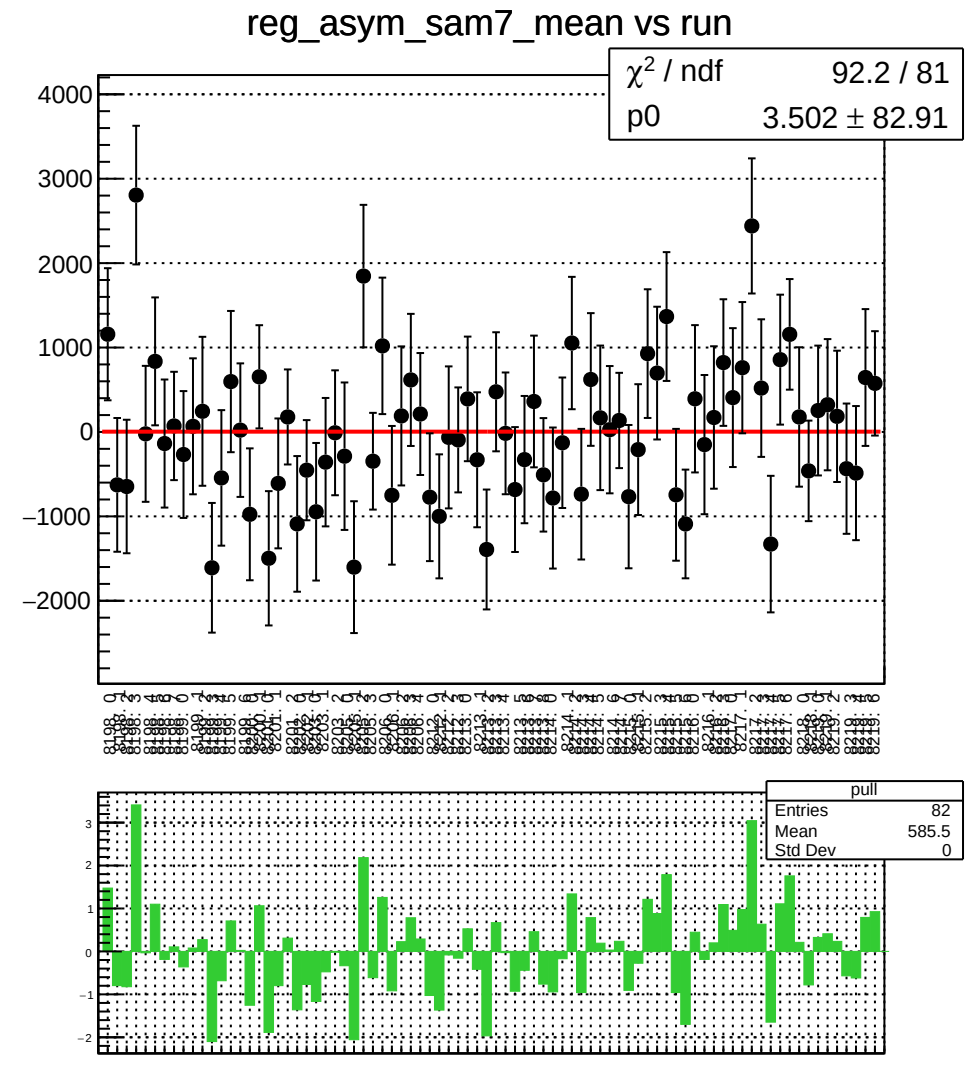

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 81
p0 −0.07247 ± 0.0858
pull
Entries 82
Mean 458.8
Std Dev 0

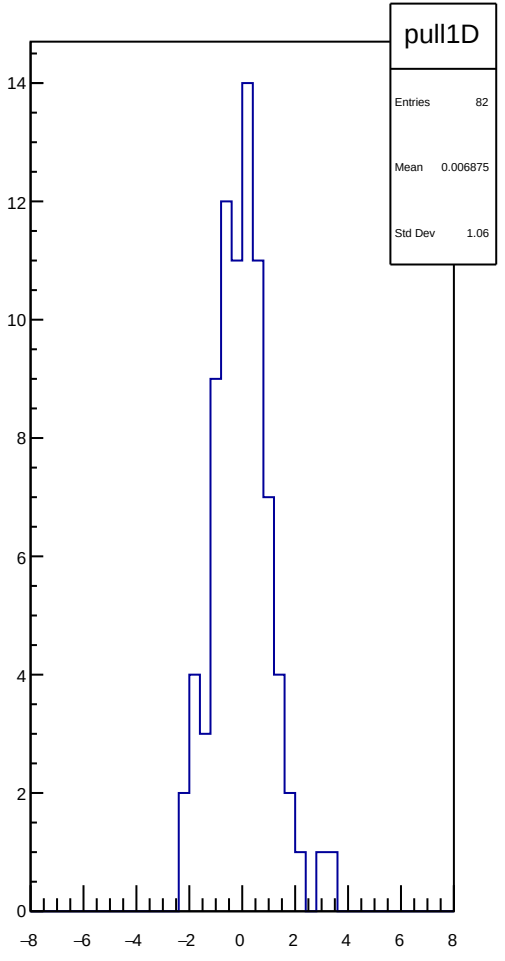

pull1D
Entries 82
Mean 0.01377
Std Dev 1.127

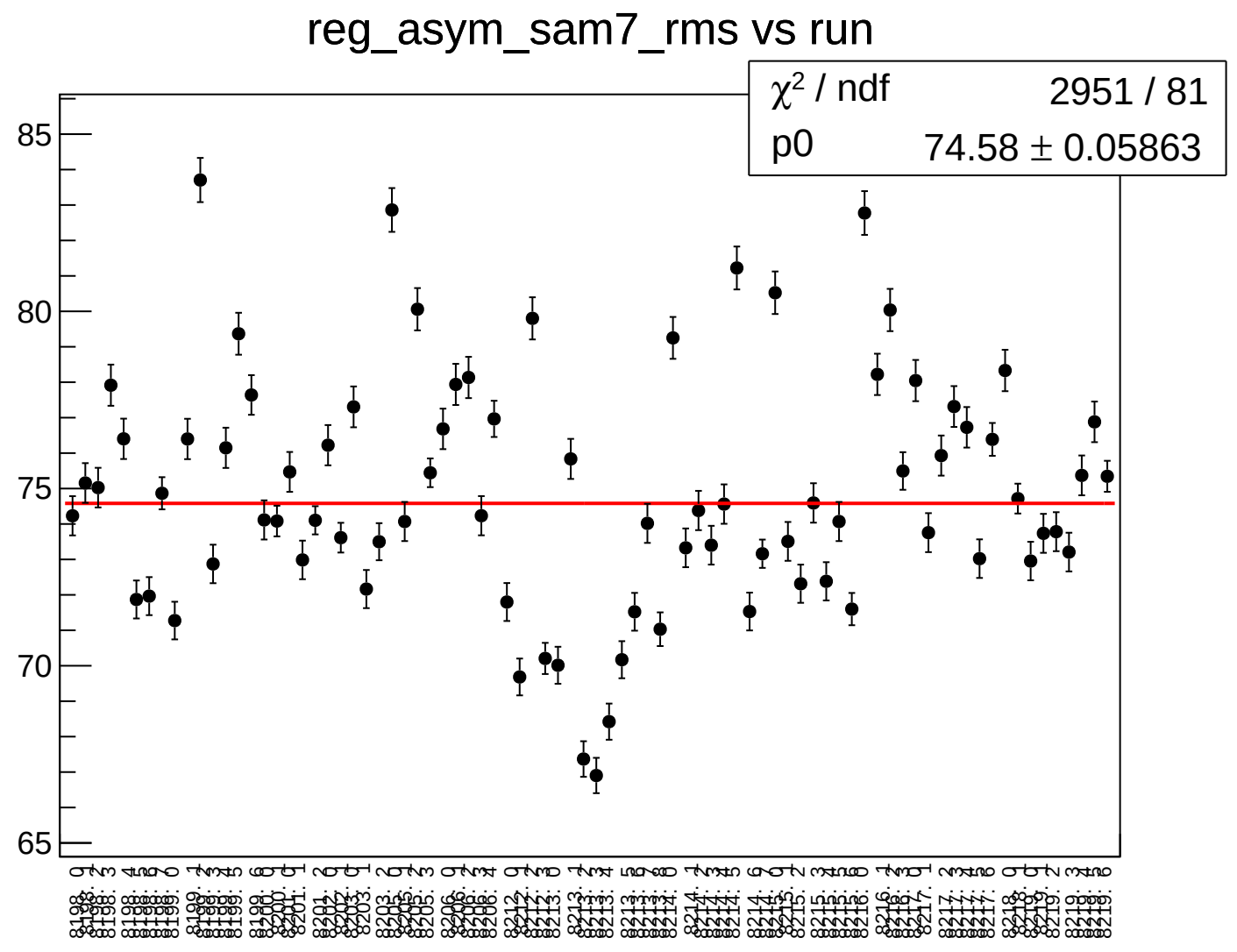

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.829e+04 / 81
p0 76.58 ± 0.06067
160
140
120
100
80
60

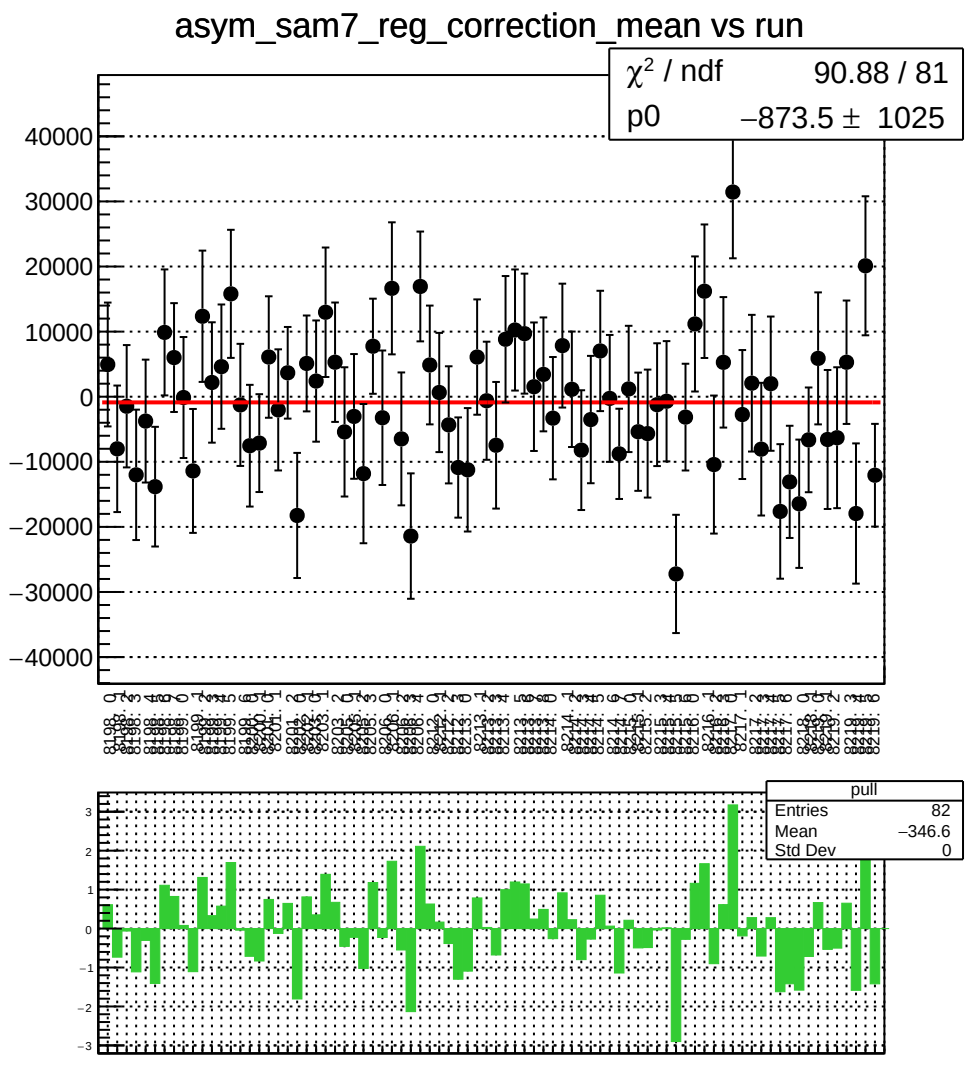

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.5 / 81
p0 1.554e−13 ± 1.319e−13
pull
Entries 82
Mean 43.32
Std Dev 46.78
pull1D
Entries 82
Mean 0.07071
Std Dev 1.121

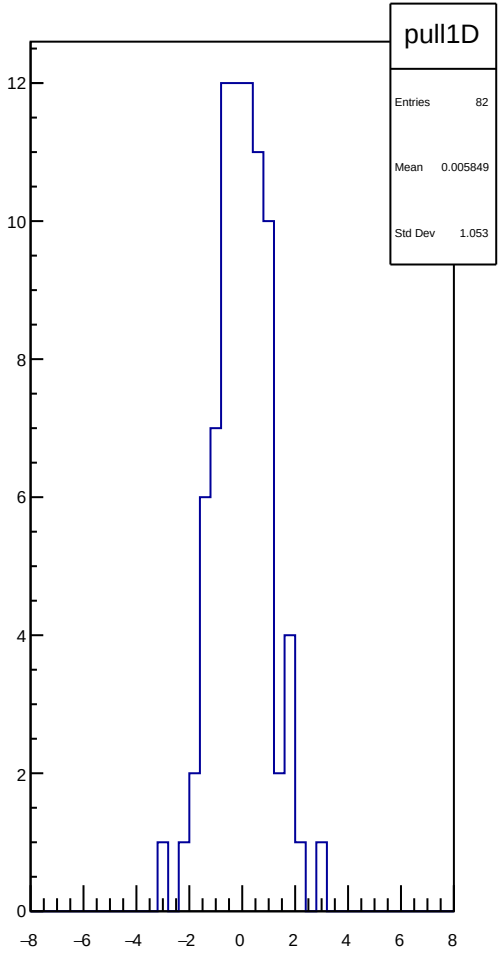

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.926e+05 / 81
p0 1.075e−10 ± 9.328e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

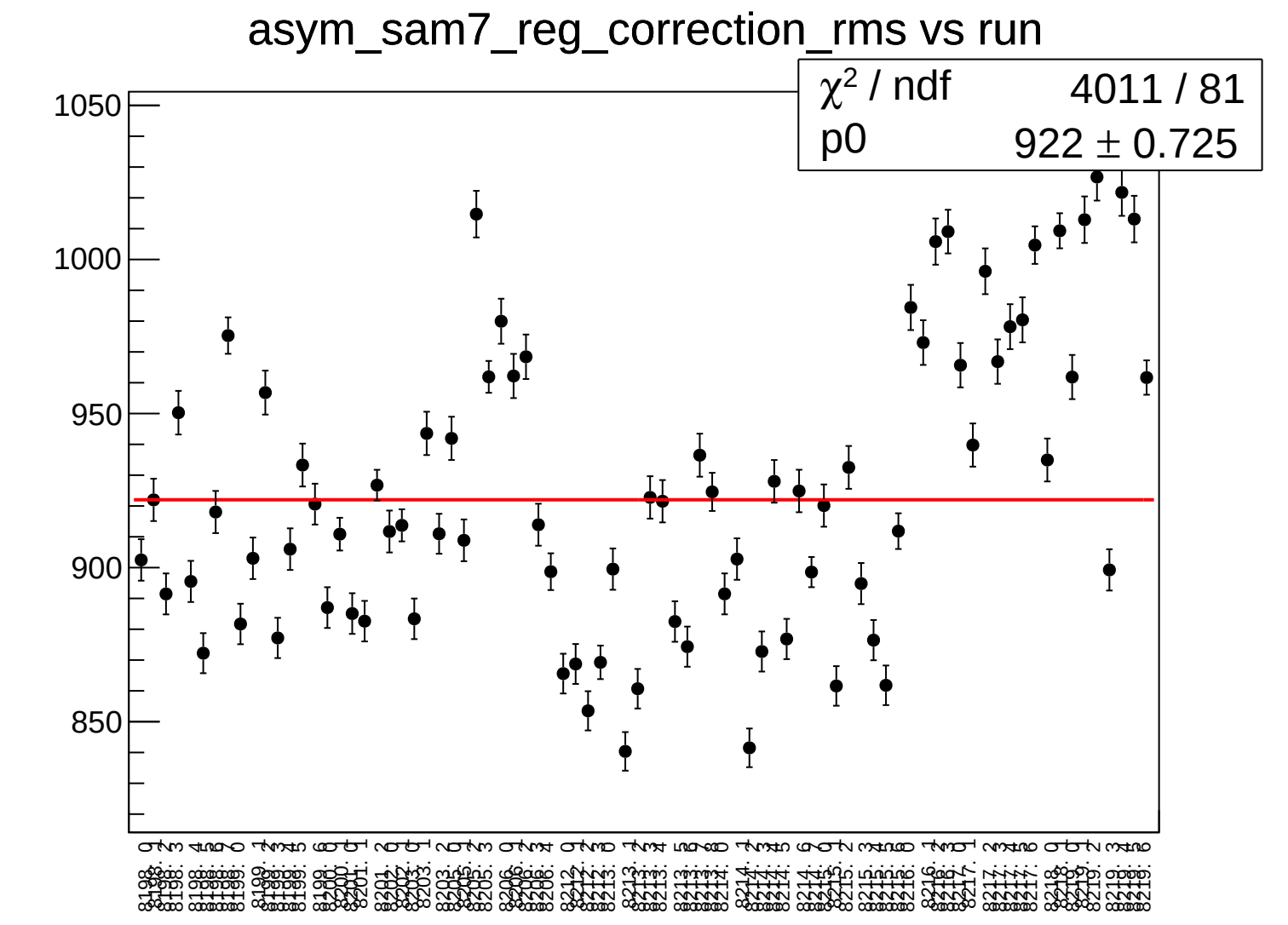

reg_asym_sam7_mean vs run
χ² / ndf 92.2 / 81
p0 3.502 ± 82.91
pull
Entries 82
Mean 585.5
Std Dev 0

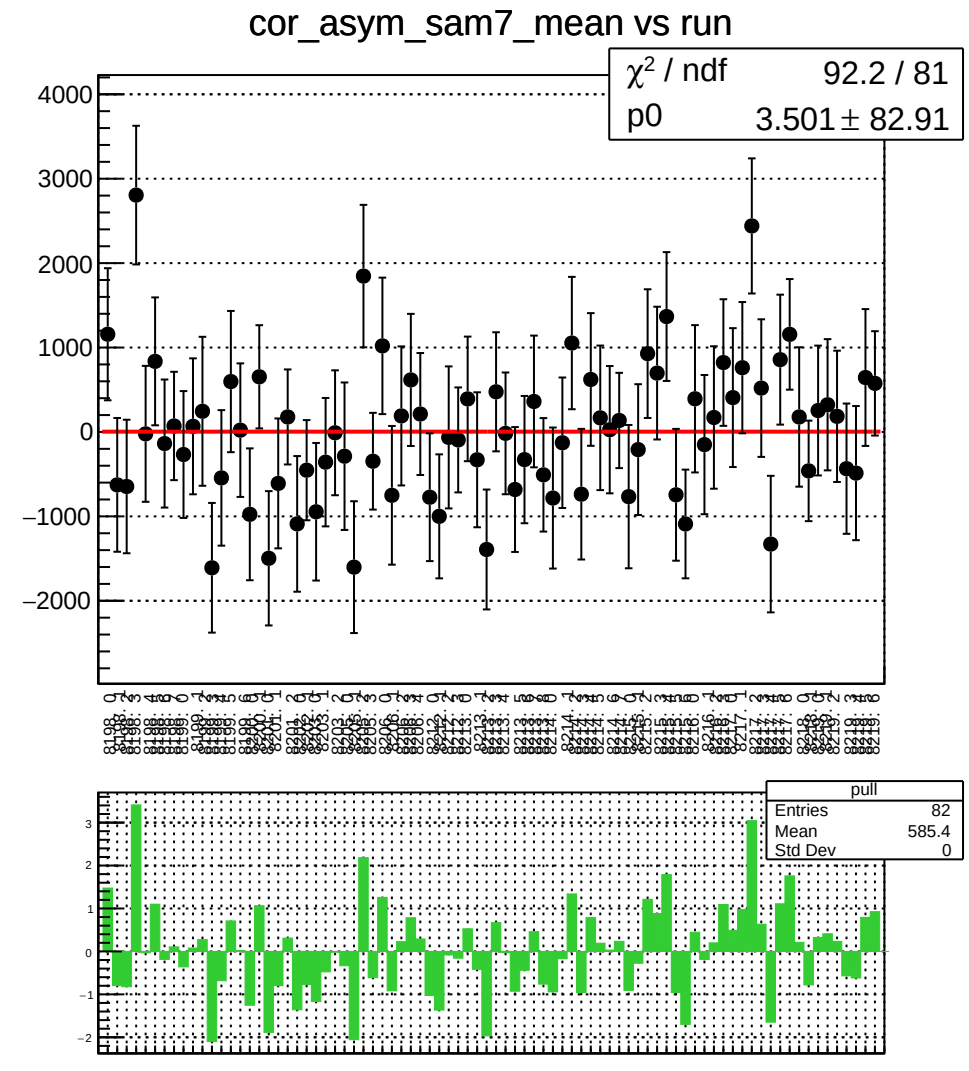

pull1D
Entries 82
Mean 0.006875
Std Dev 1.06

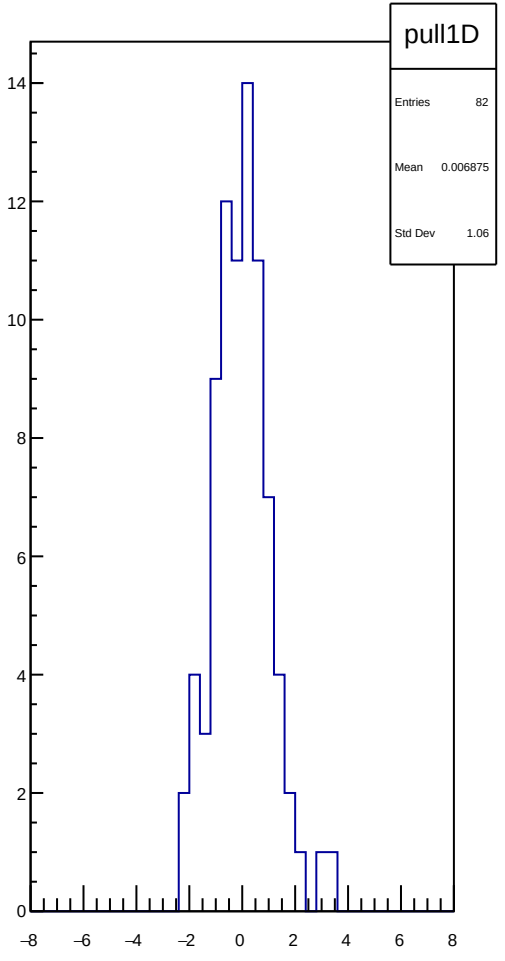

reg_asym_sam7_rms vs run
χ² / ndf 2951 / 81
p0 74.58 ± 0.05863
85
80
75
70
65

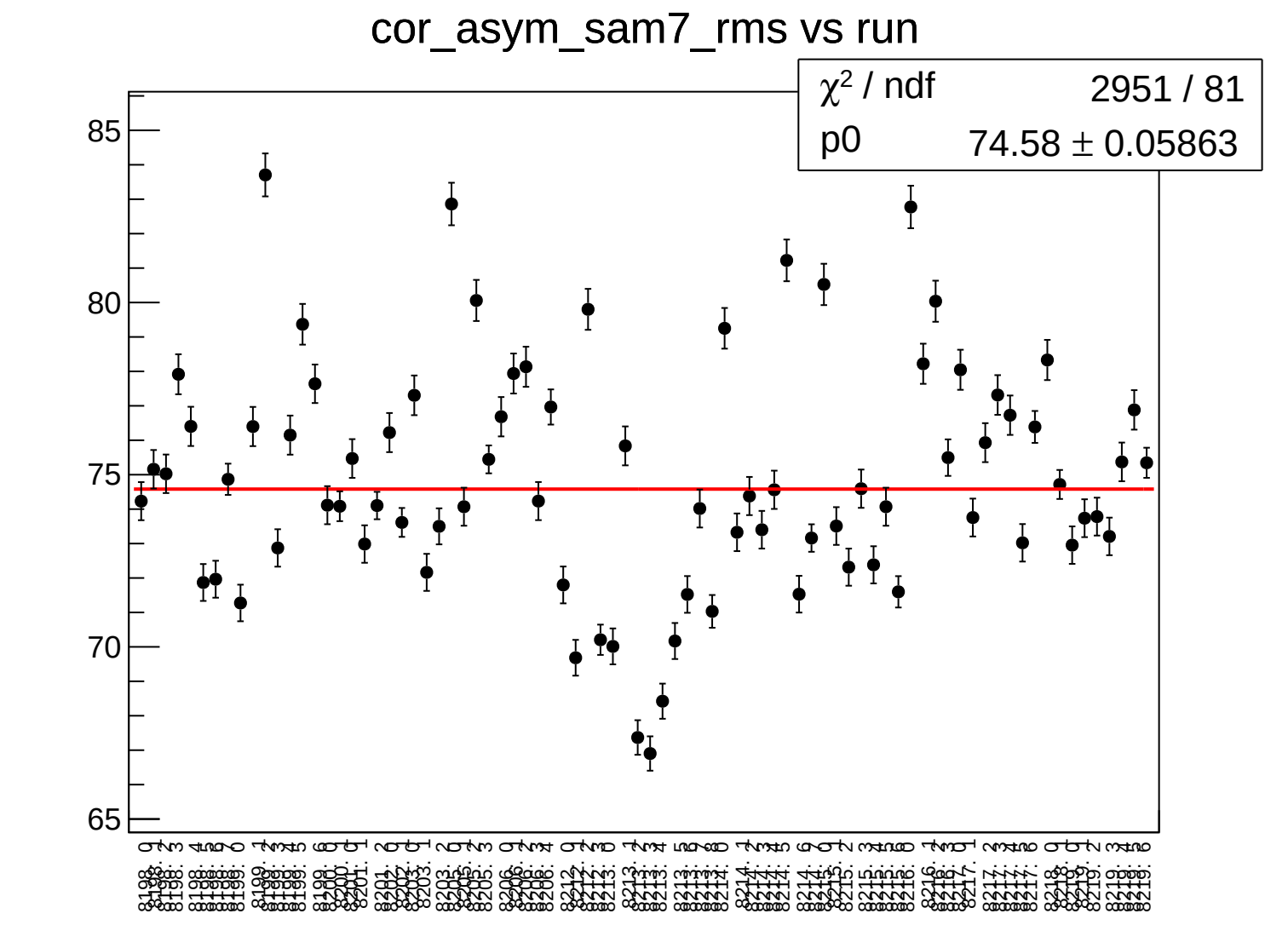

asym_sam7_reg_correction_mean vs run
χ² / ndf 90.88 / 81
p0 −873.5 ± 1025
pull
Entries 82
Mean −346.6
Std Dev 0

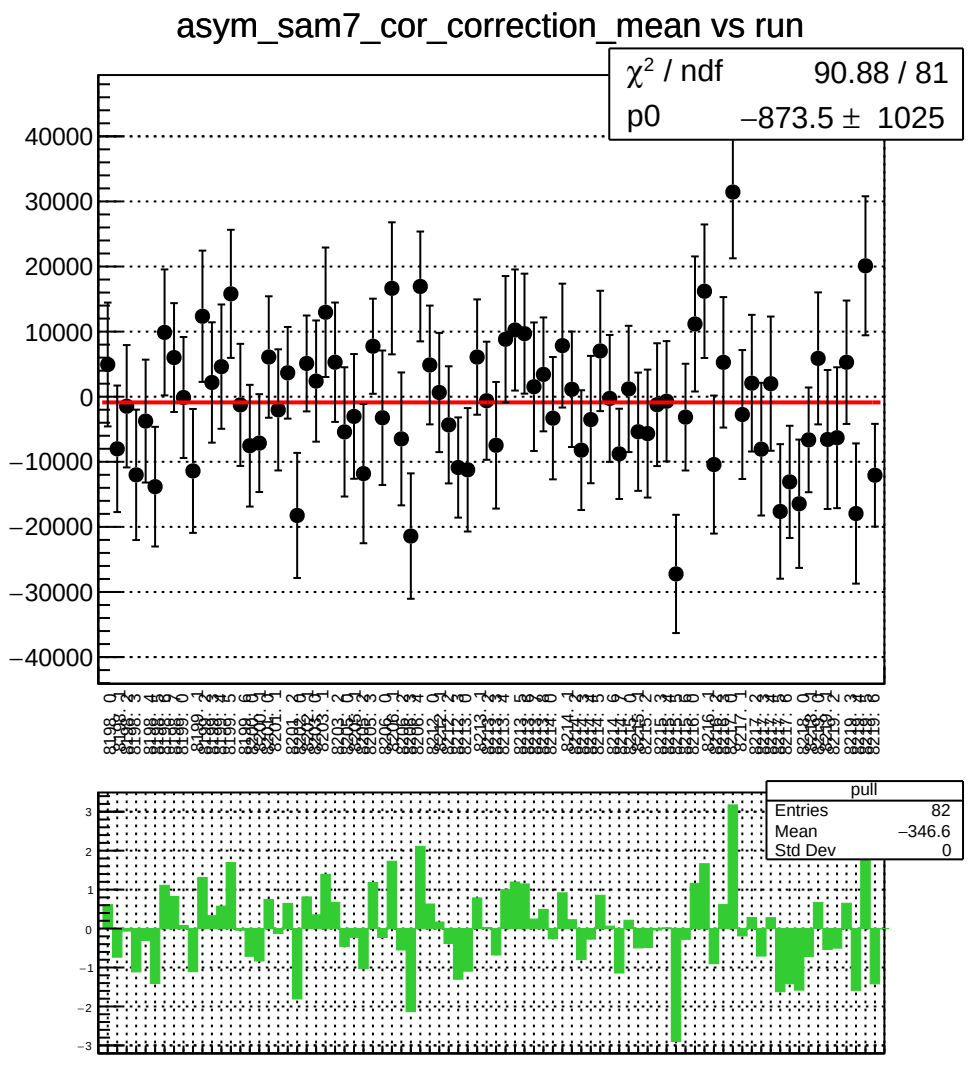

pull1D
Entries 82
Mean 0.005849
Std Dev 1.053

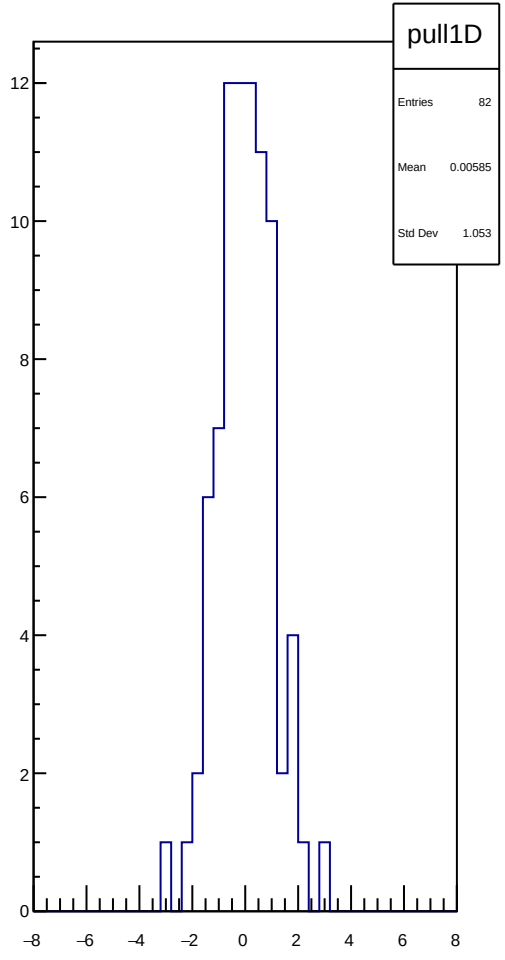

asym_sam7_reg_correction_rms vs run
χ² / ndf 4011 / 81
p0 922 ± 0.725
1050
1000
950
900
850

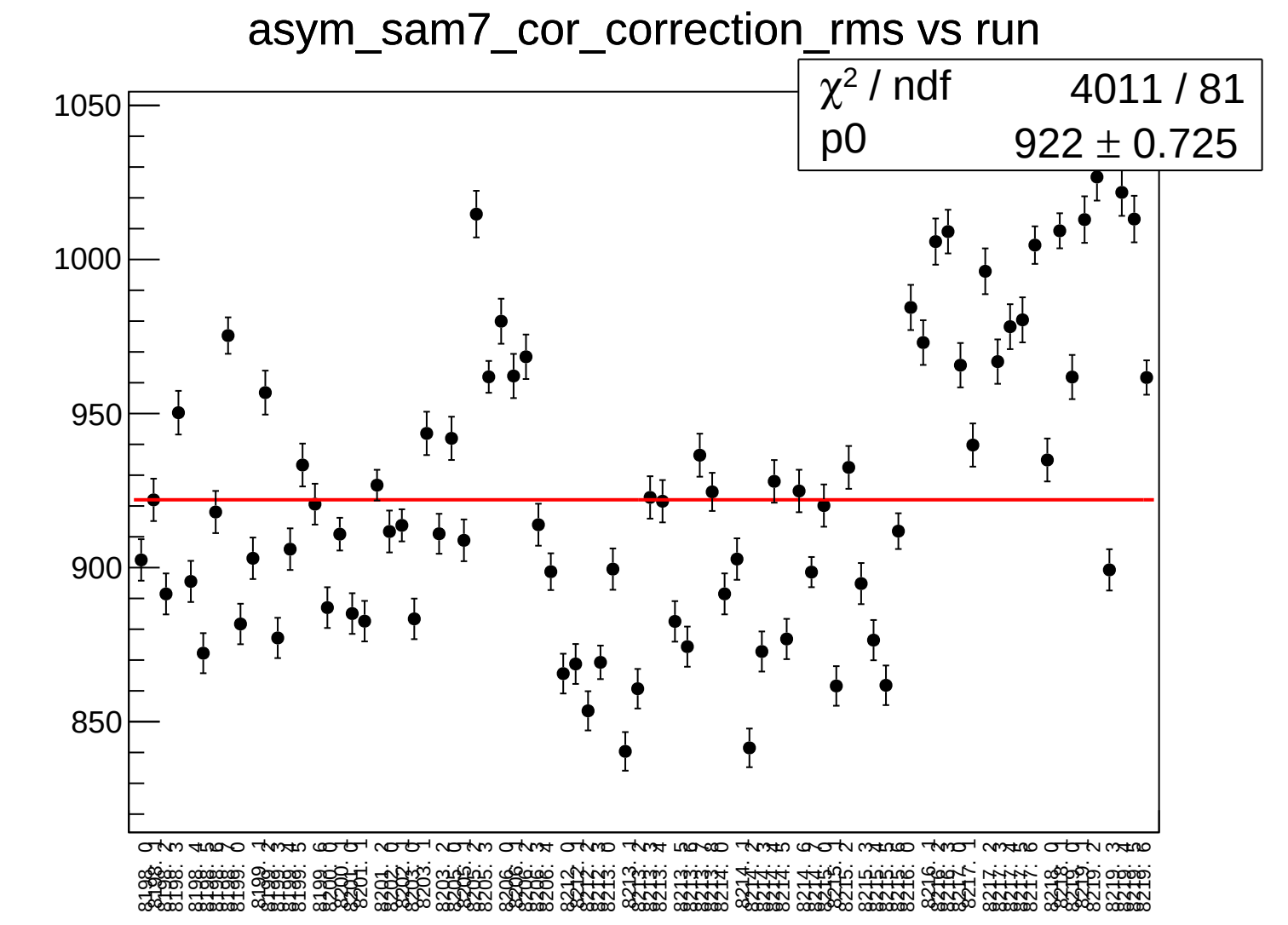

cor_asym_sam7_mean vs run
χ² / ndf 92.2 / 81
p0 3.501 ± 82.91
pull
Entries 82
Mean 585.4
Std Dev 0

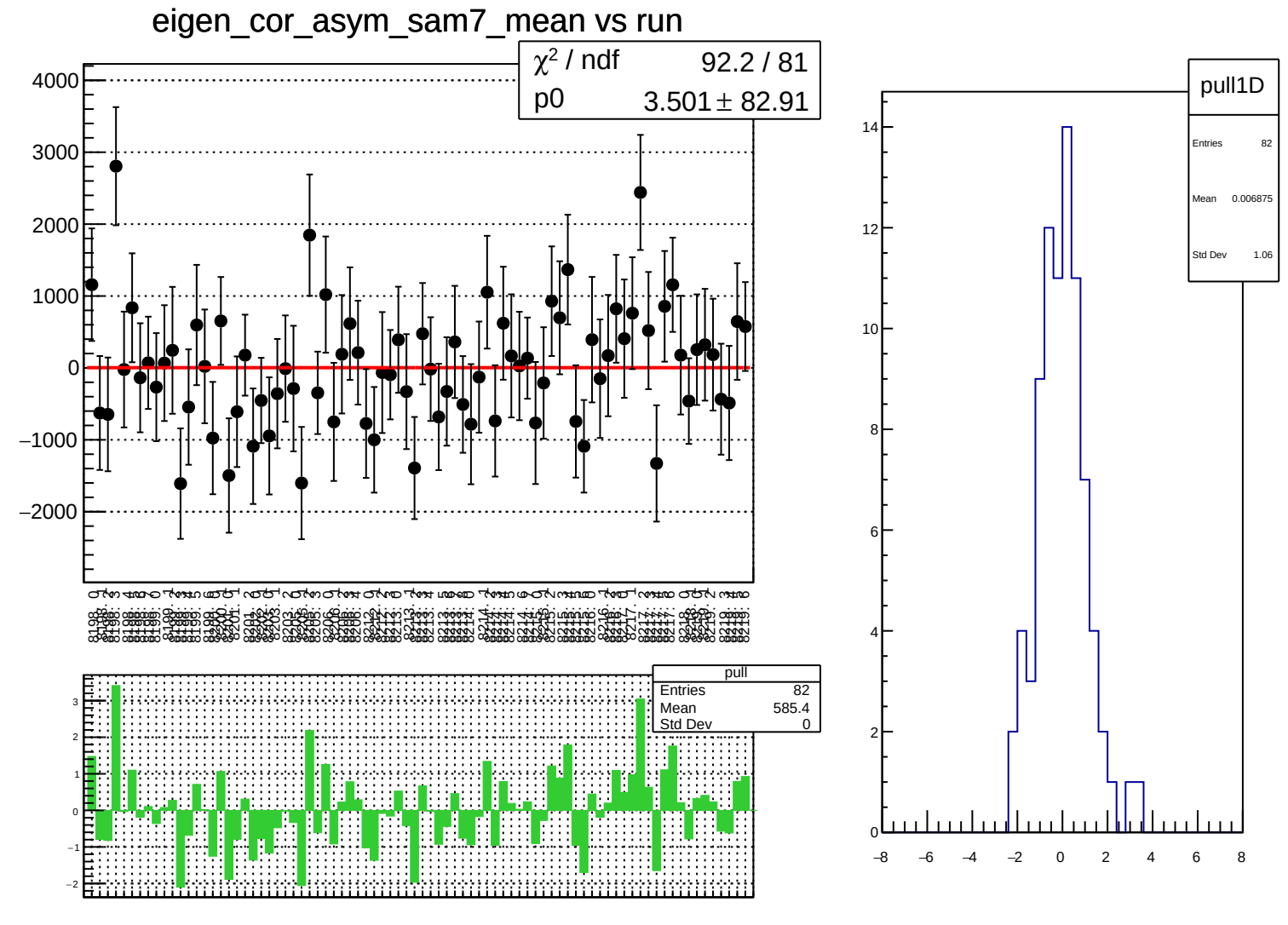

pull1D
Entries 82
Mean 0.006875
Std Dev 1.06

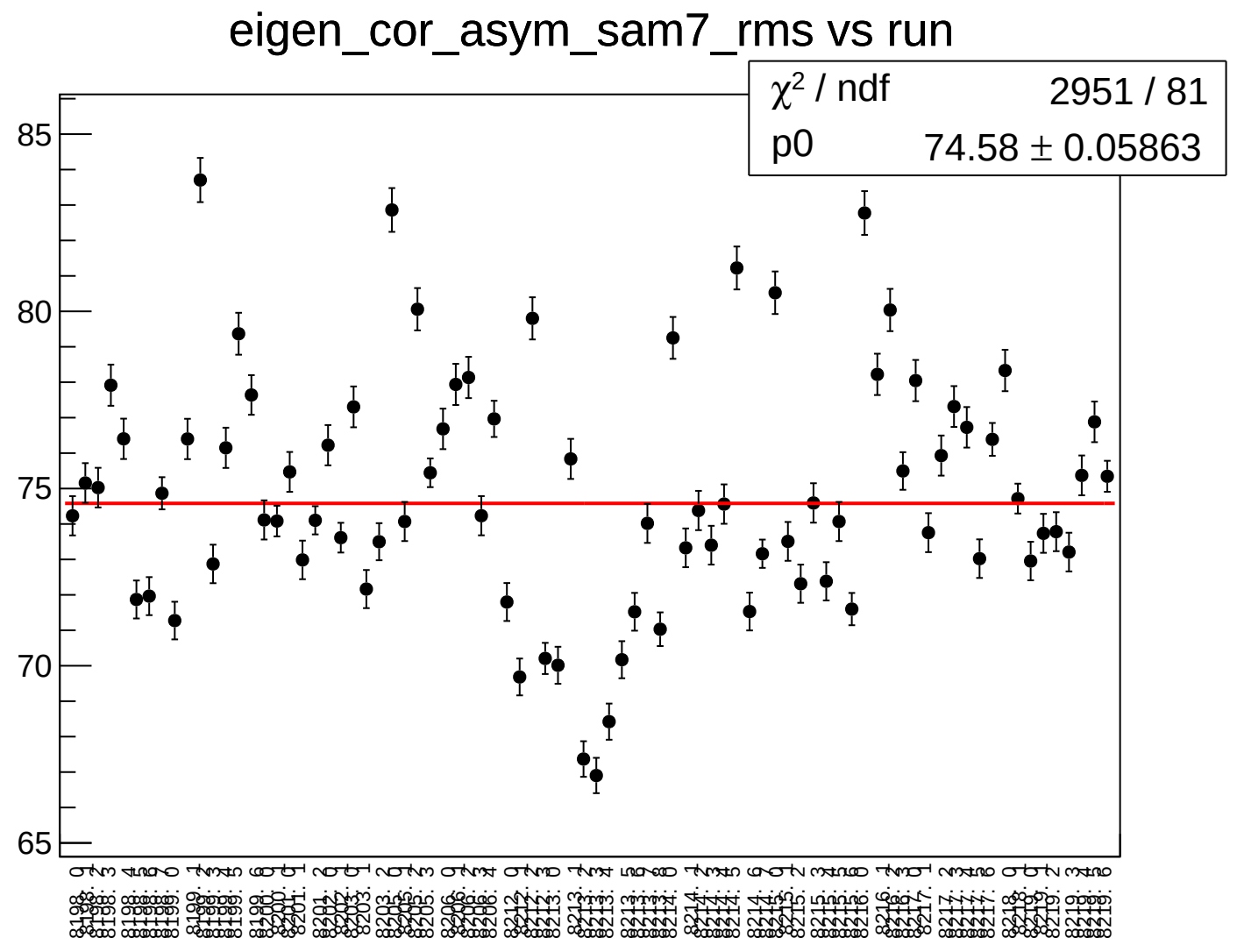

cor_asym_sam7_rms vs run
χ² / ndf 2951 / 81
p0 74.58 ± 0.05863
85
80
75
70
65

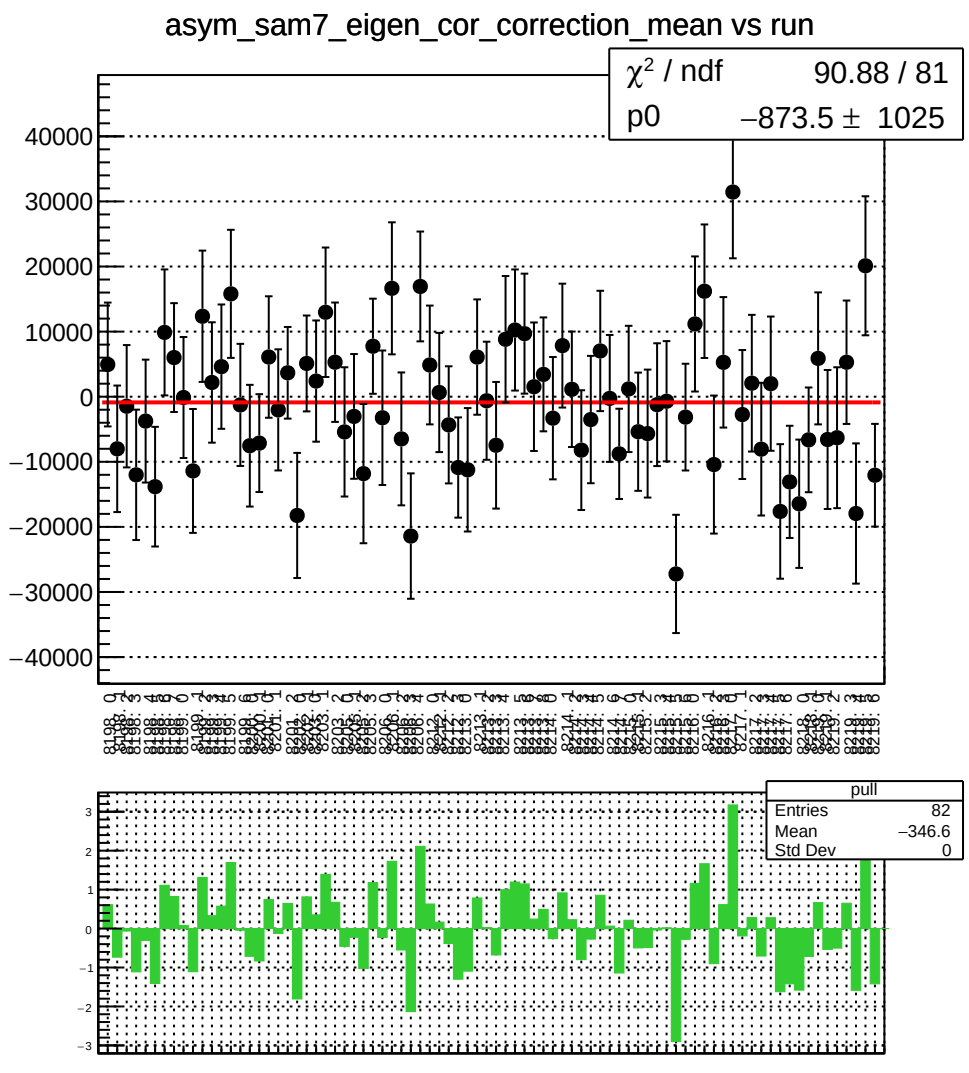

asym_sam7_cor_correction_mean vs run
χ² / ndf 90.88 / 81
p0 −873.5 ± 1025
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −346.6
Std Dev 0
3
2
1
0
−1
−2
−3

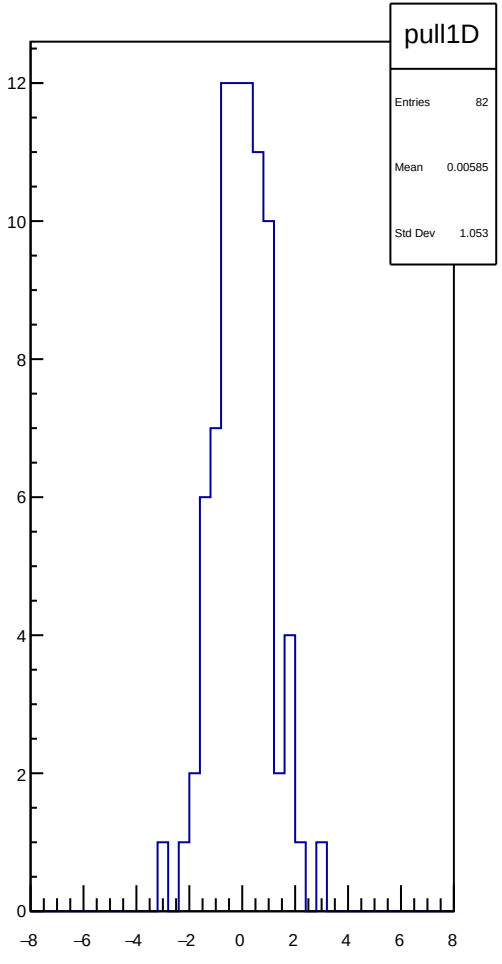

pull1D
Entries 82
Mean 0.00585
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

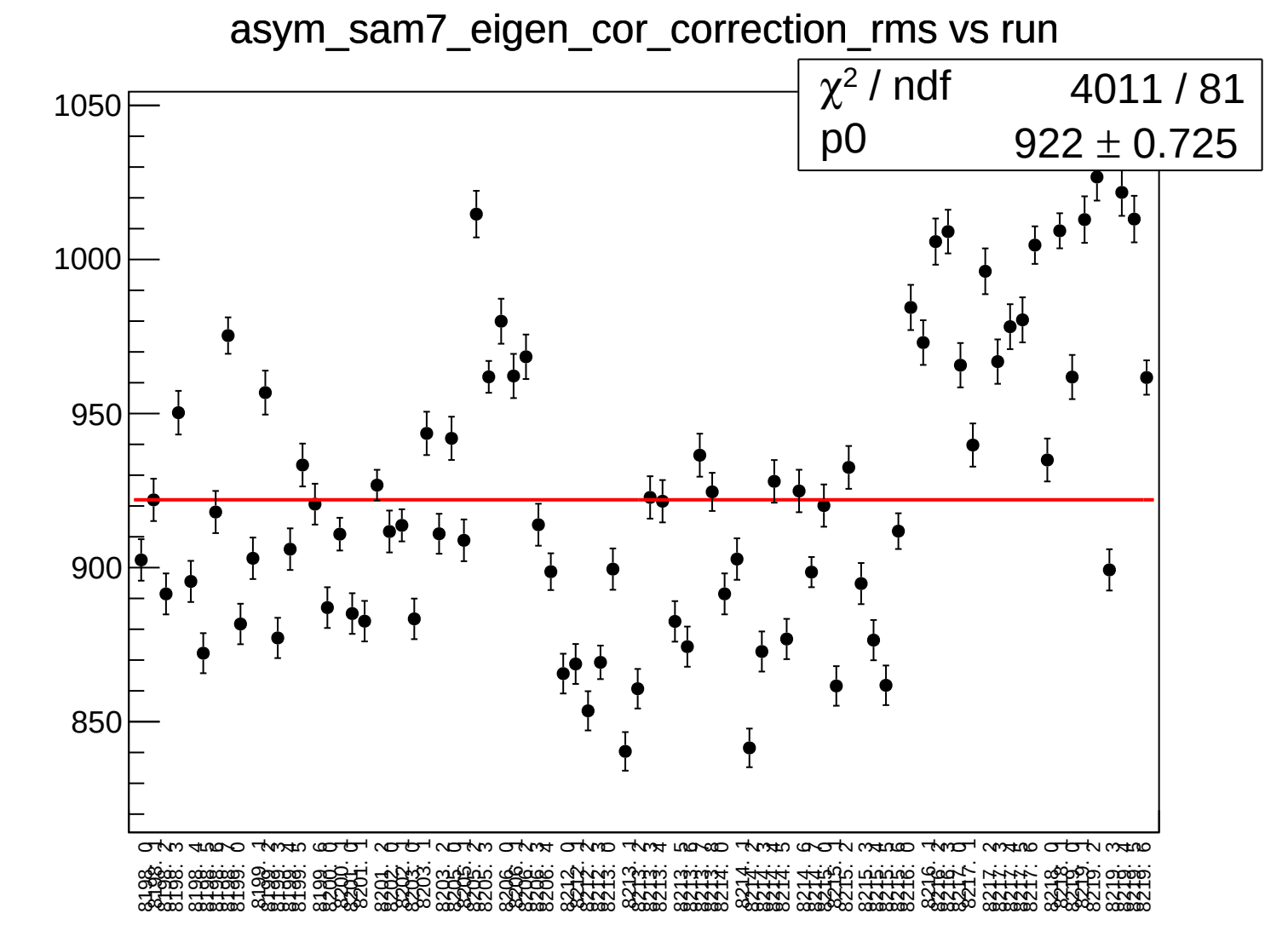

asym_sam7_cor_correction_rms vs run
χ² / ndf 4011 / 81
p0 922 ± 0.725
1050
1000
950
900
850

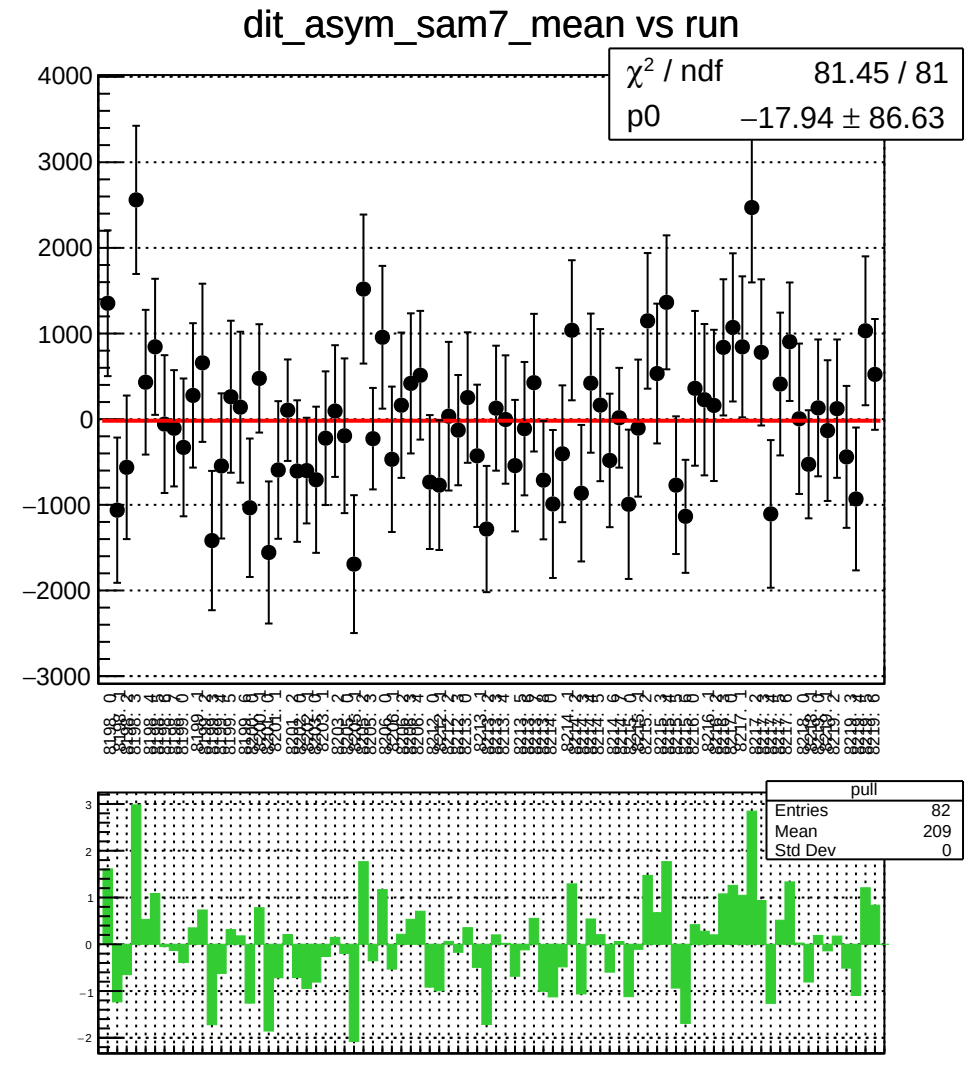

eigen_cor_asym_sam7_mean vs run
χ² / ndf 92.2 / 81
p0 3.501 ± 82.91
pull
Entries 82
Mean 585.4
Std Dev 0
pull1D
Entries 82
Mean 0.006875
Std Dev 1.06

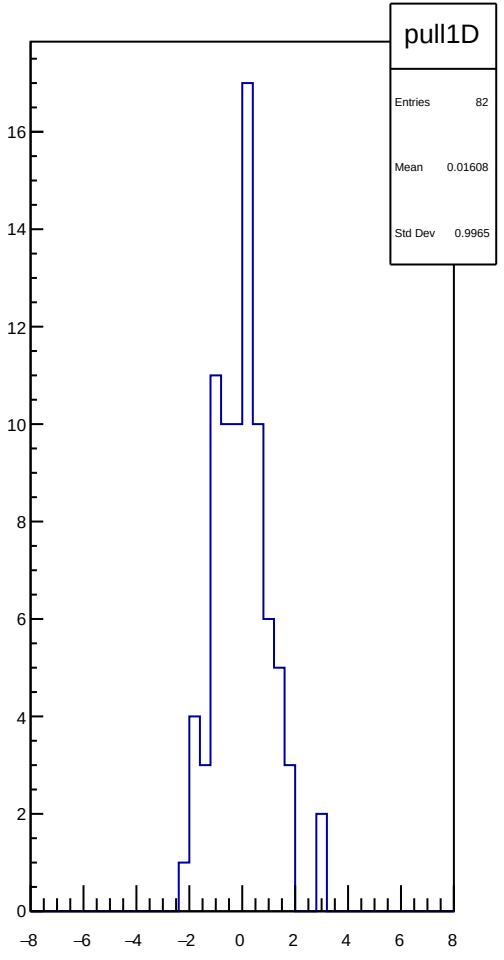

eigen_cor_asym_sam7_rms vs run
χ² / ndf 2951 / 81
p0 74.58 ± 0.05863
85
80
75
70
65

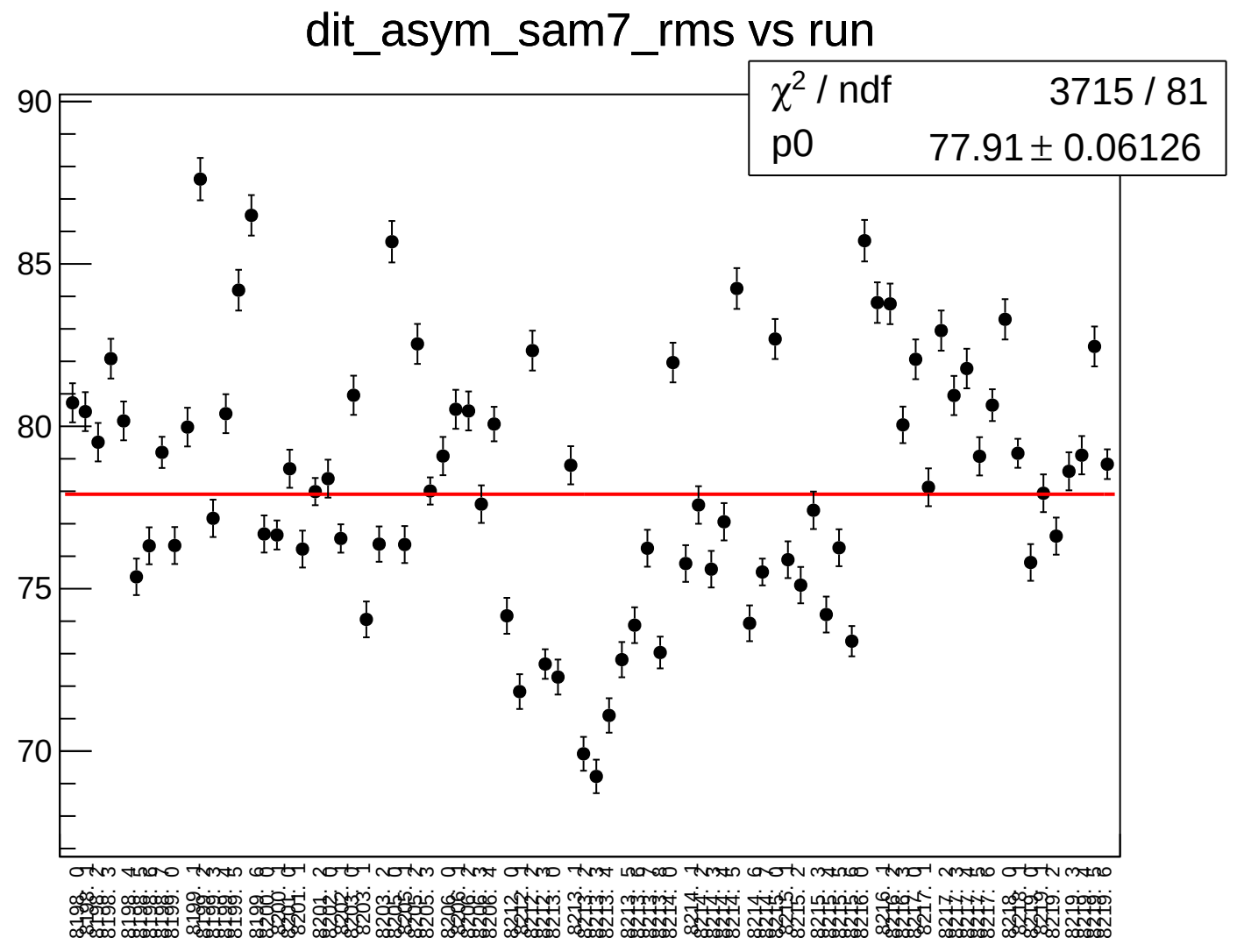

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 90.88 / 81
p0 −873.5 ± 1025
pull
Entries 82
Mean −346.6
Std Dev 0

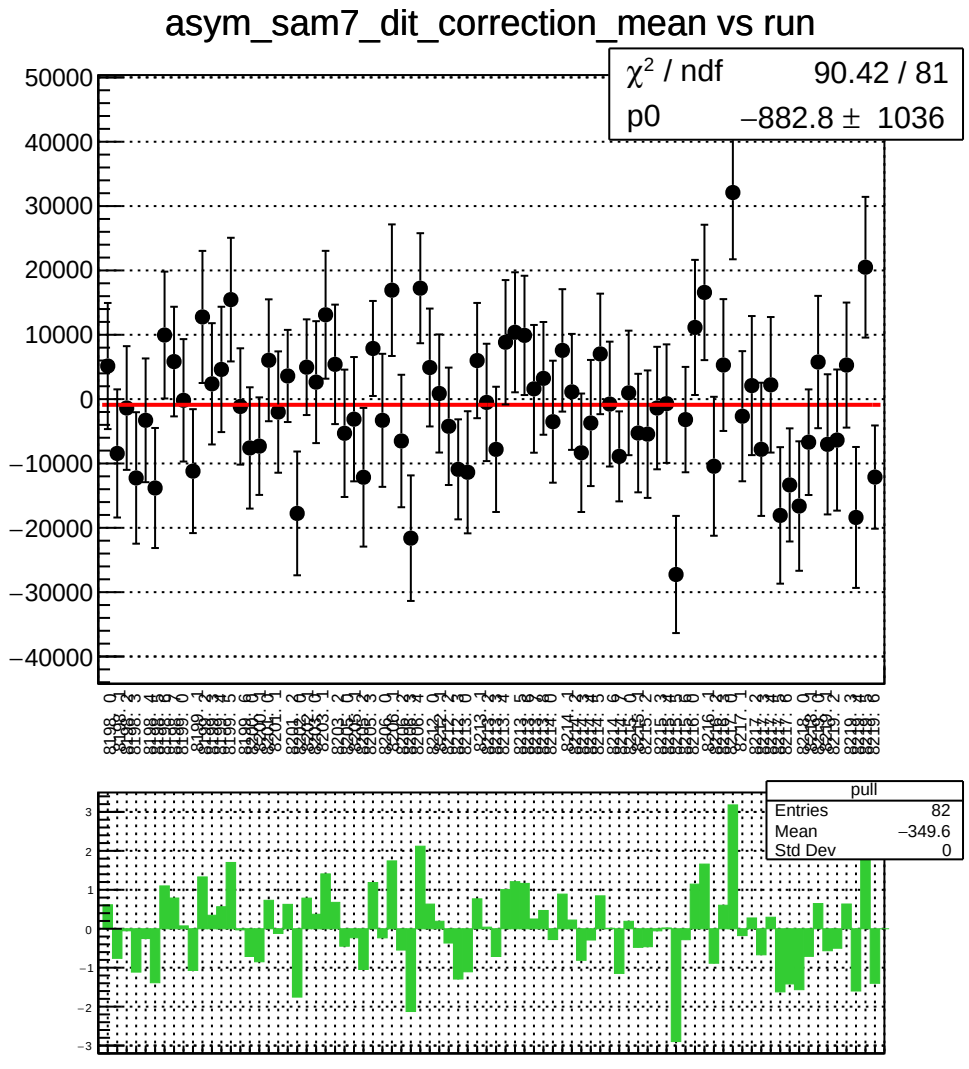

pull1D
Entries 82
Mean 0.00585
Std Dev 1.053

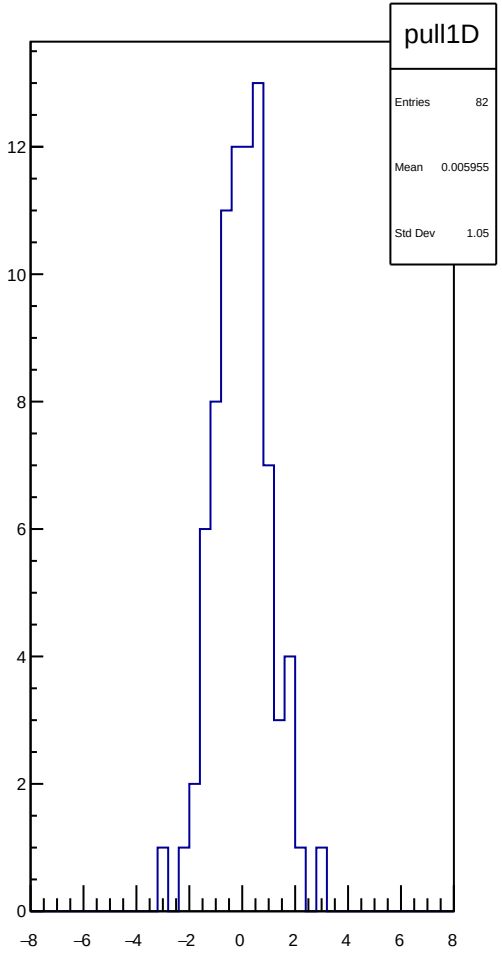

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 4011 / 81
p0 922 ± 0.725
1050
1000
950
900
850

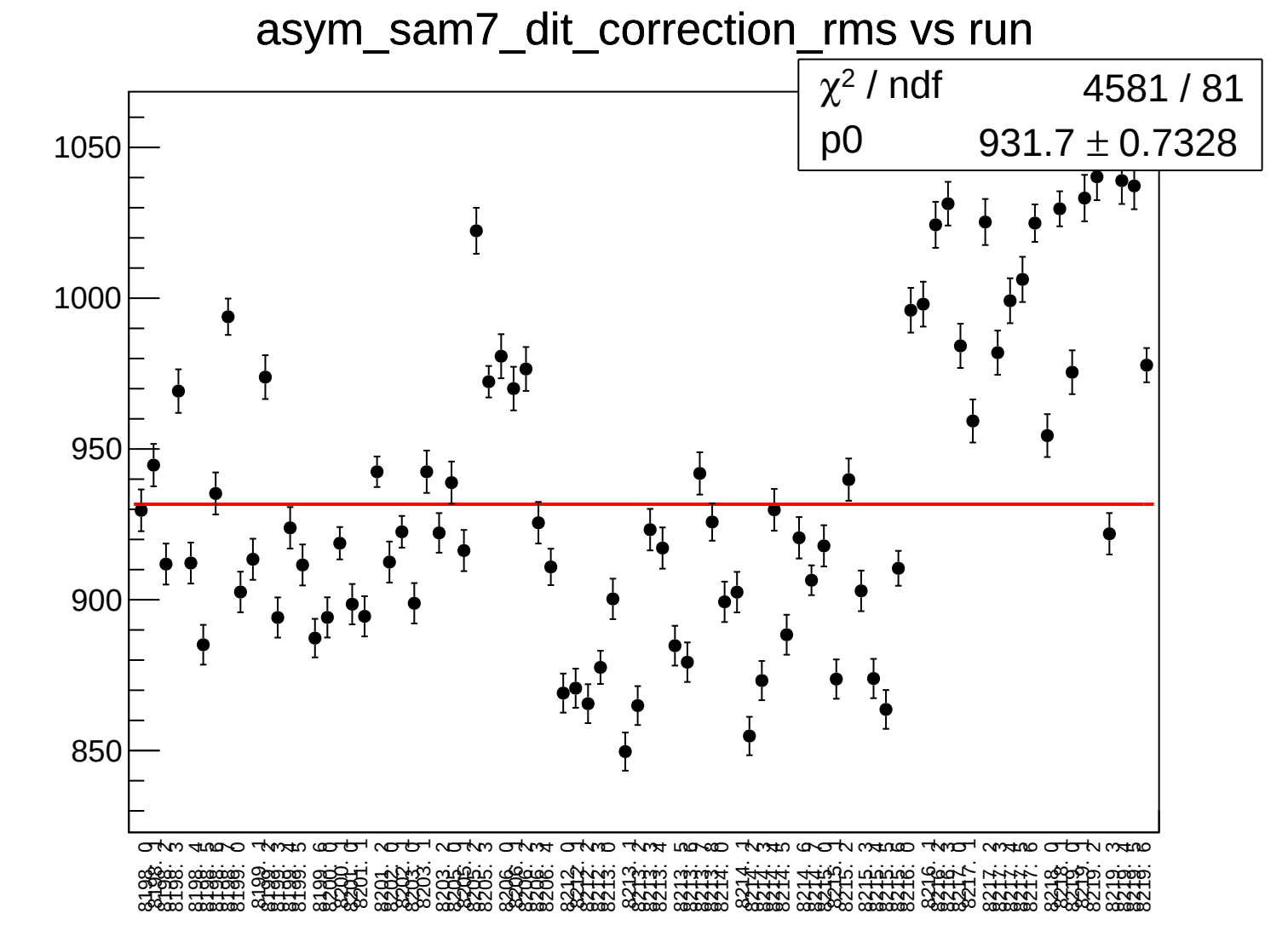

dit_asym_sam7_mean vs run
χ² / ndf 81.45 / 81
p0 −17.94 ± 86.63
pull
Entries 82
Mean 209
Std Dev 0

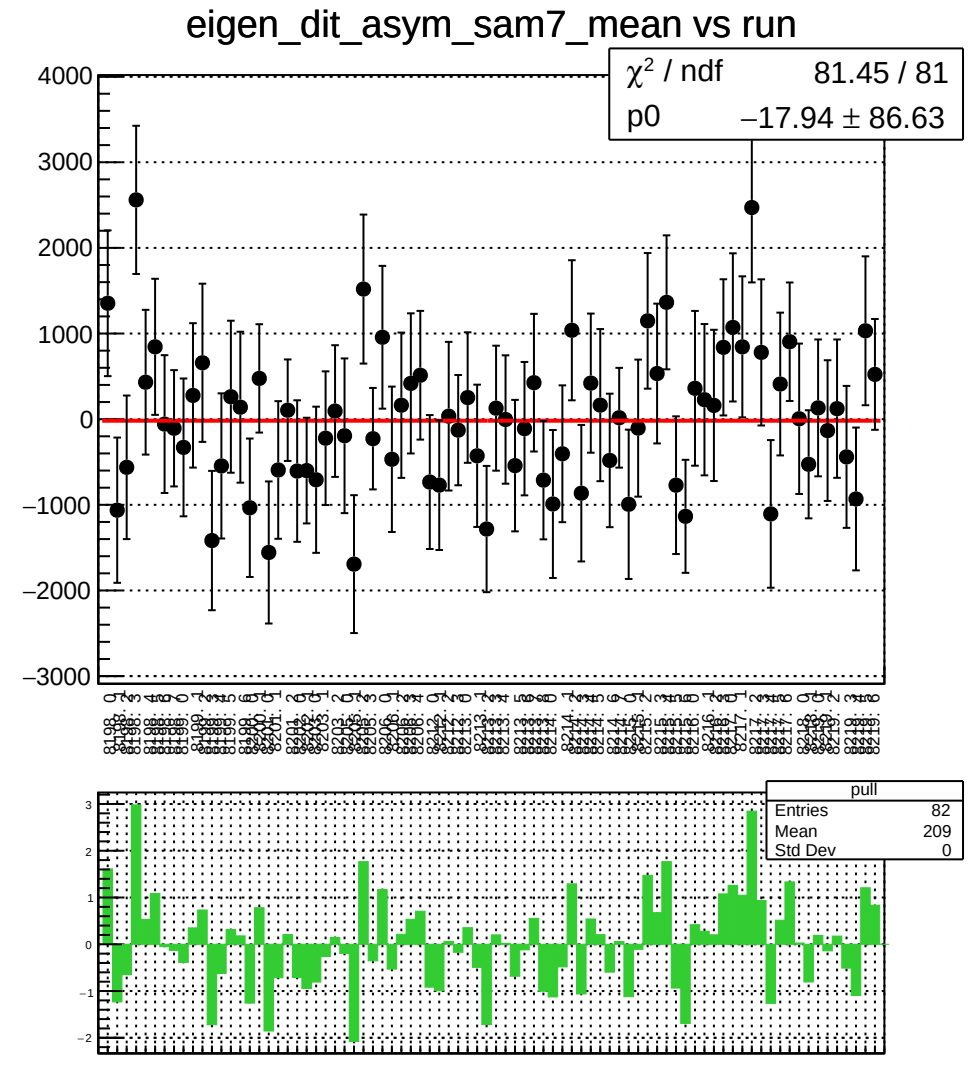

pull1D
Entries 82
Mean 0.01608
Std Dev 0.9965

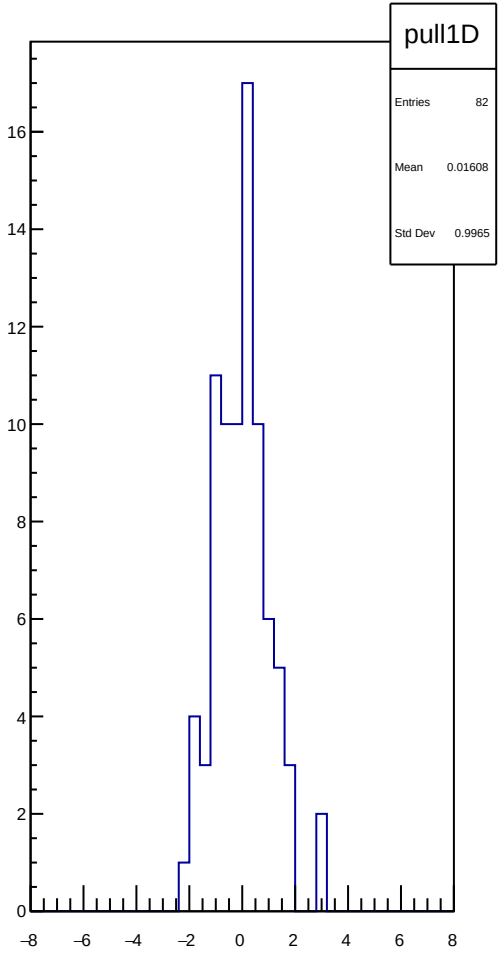

dit_asym_sam7_rms vs run
$\chi^2$ / ndf 3715 / 81
p0 77.91 ± 0.06126
90
85
80
75
70

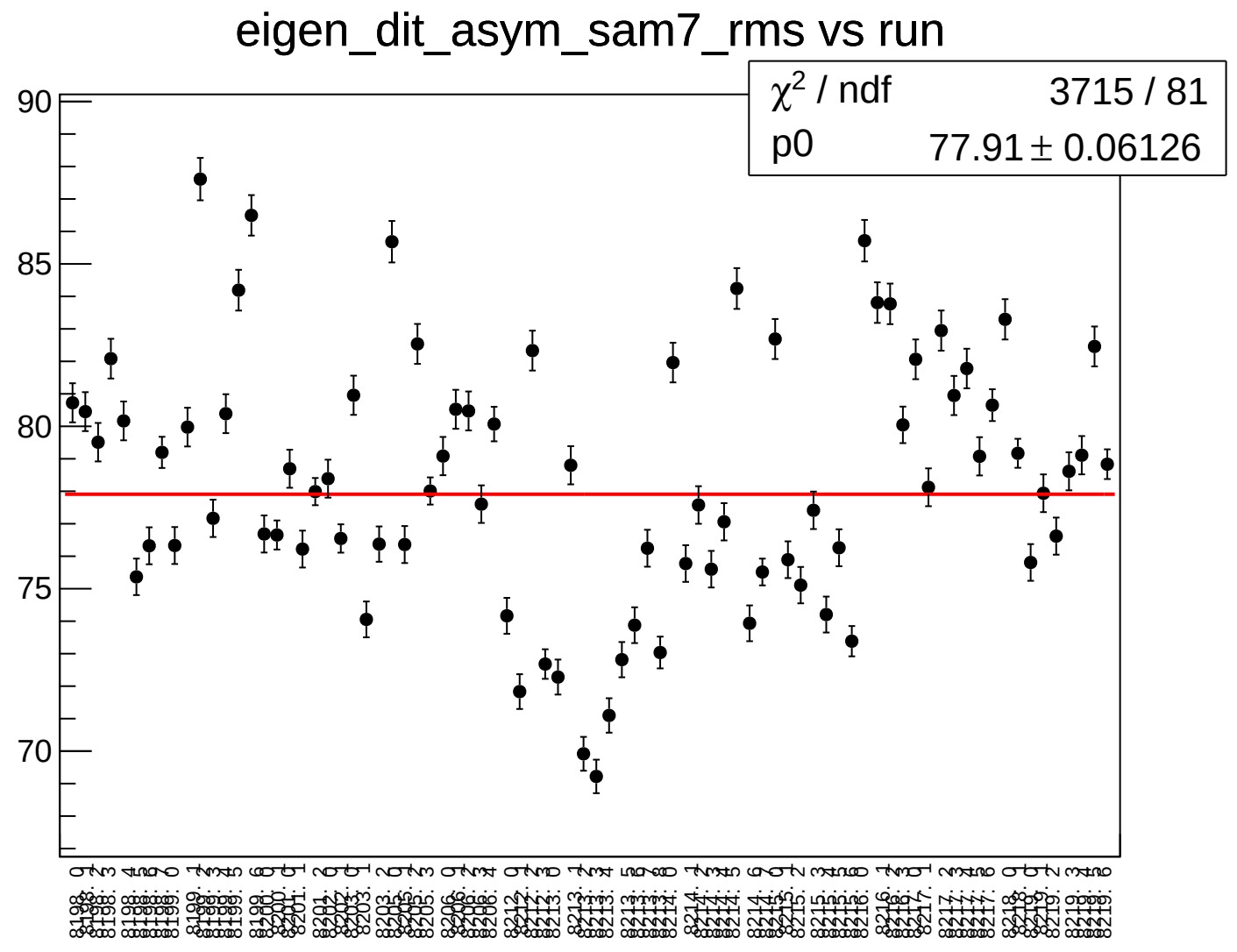

asym_sam7_dit_correction_mean vs run
χ² / ndf 90.42 / 81
p0 −882.8 ± 1036
pull
Entries 82
Mean −349.6
Std Dev 0

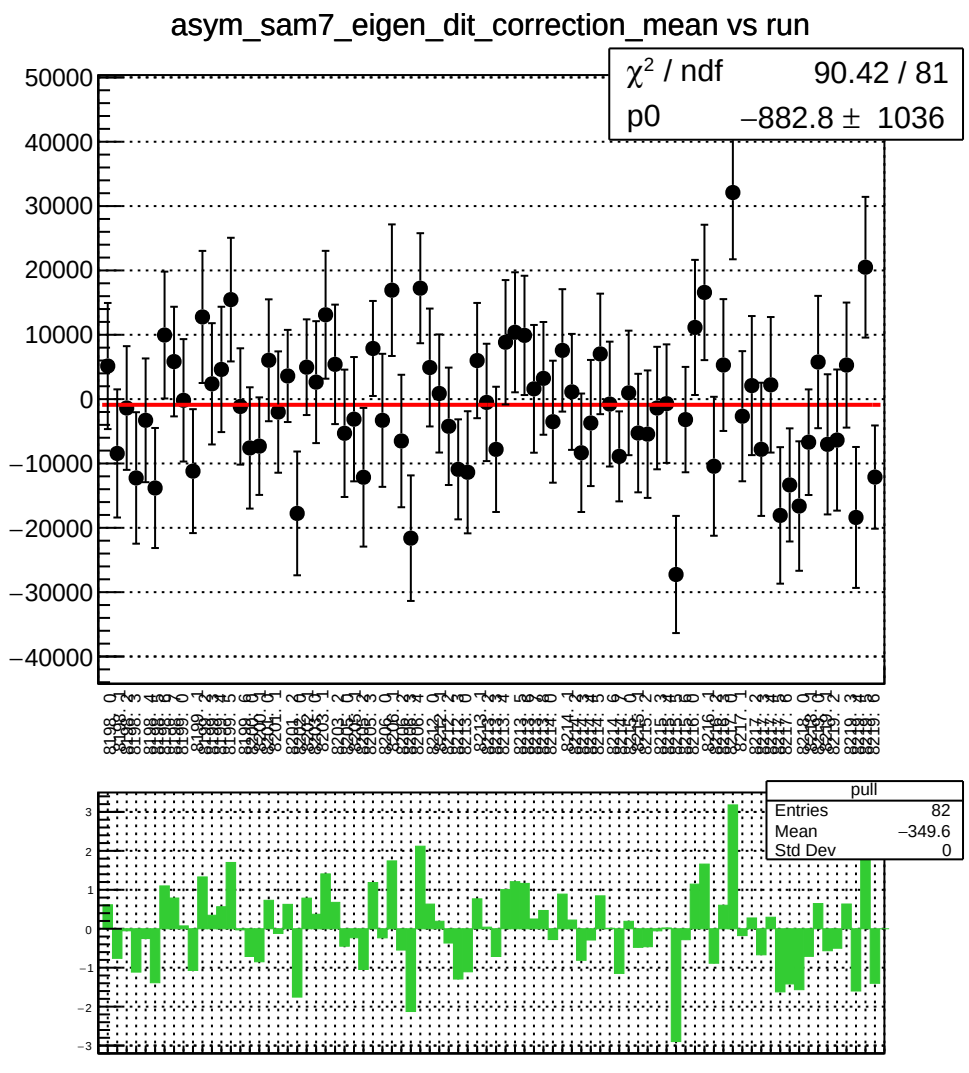

pull1D
Entries 82
Mean 0.005955
Std Dev 1.05

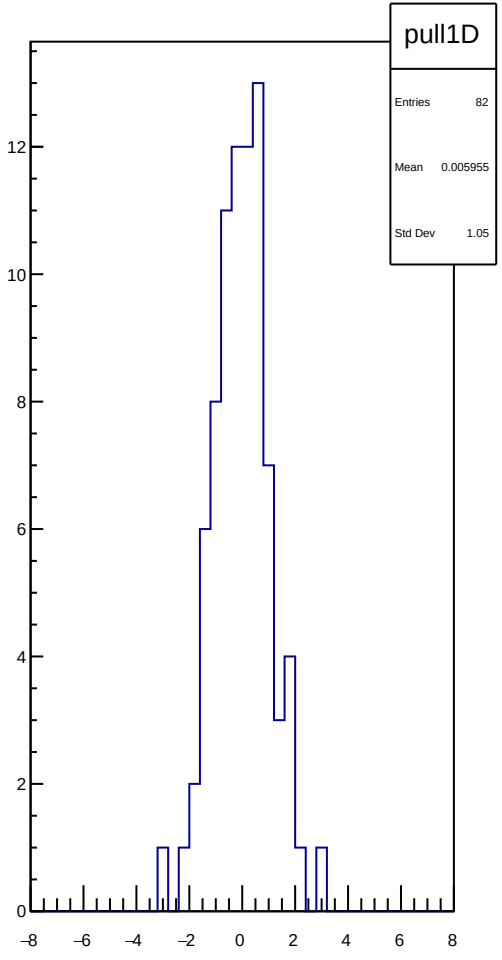

asym_sam7_dit_correction_rms vs run
χ² / ndf 4581 / 81
p0 931.7 ± 0.7328
1050
1000
950
900
850

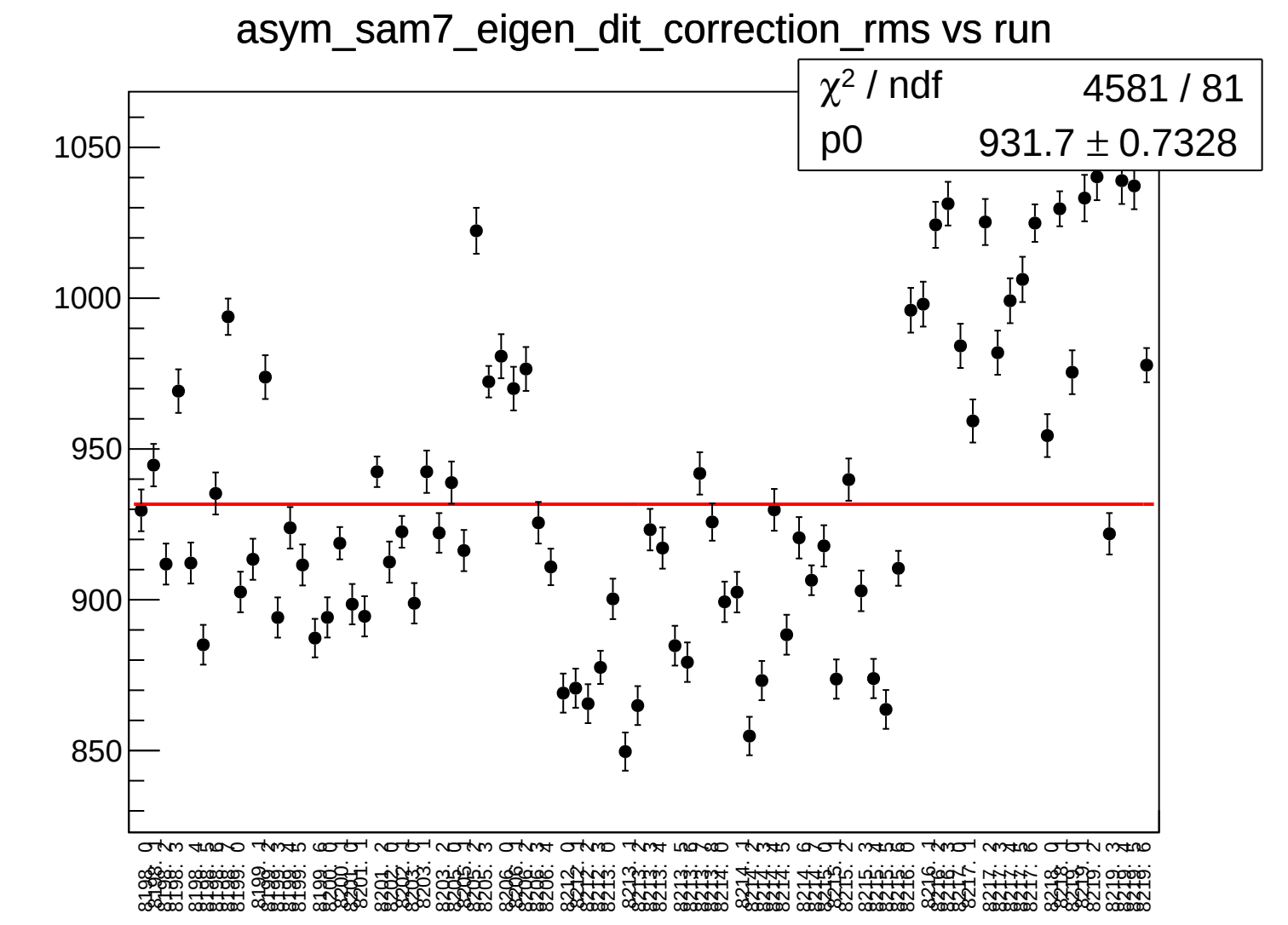

eigen_dit_asym_sam7_mean vs run
χ² / ndf 81.45 / 81
p0 −17.94 ± 86.63
pull
Entries 82
Mean 209
Std Dev 0

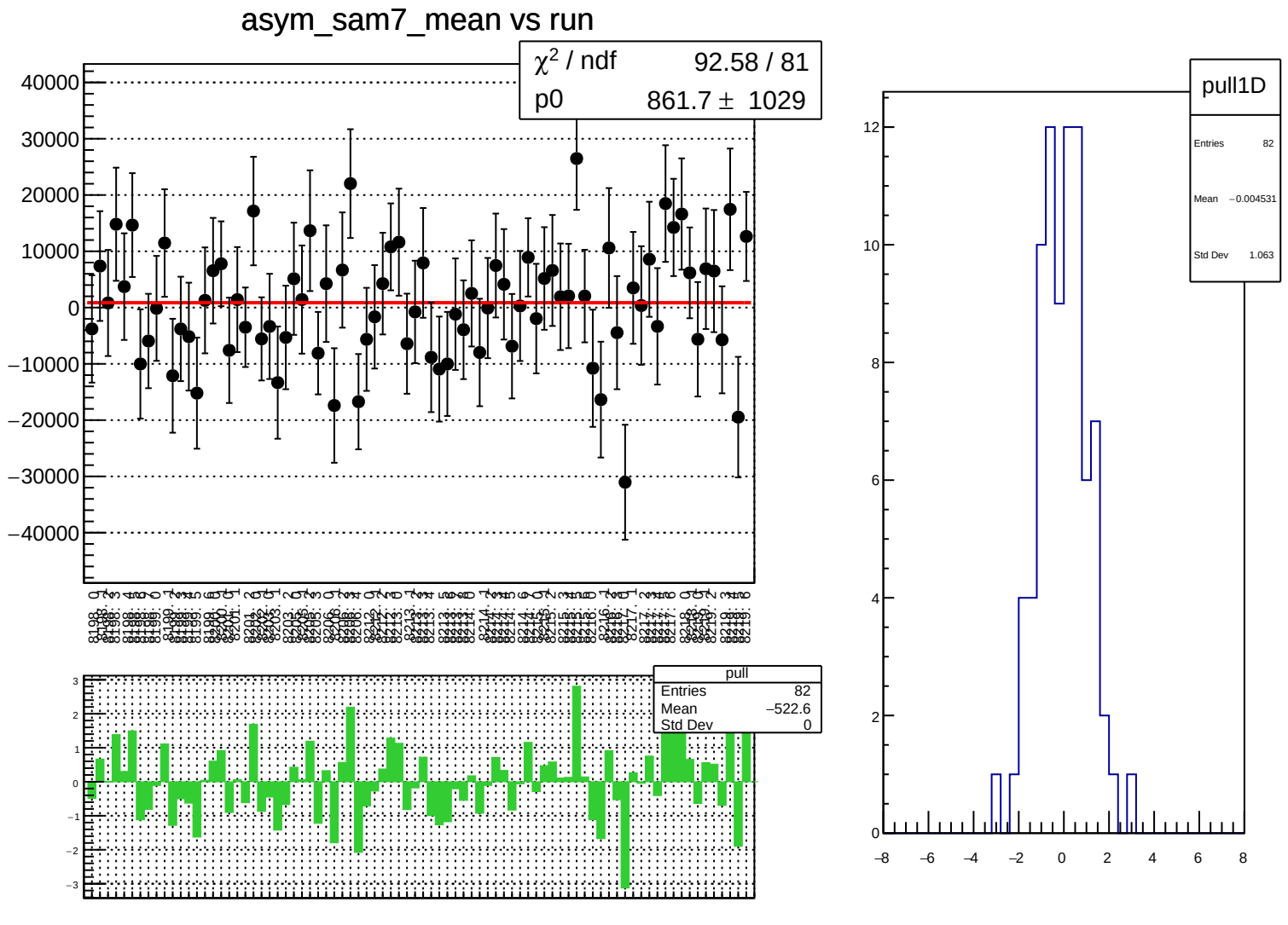

pull1D
Entries 82
Mean 0.01608
Std Dev 0.9965

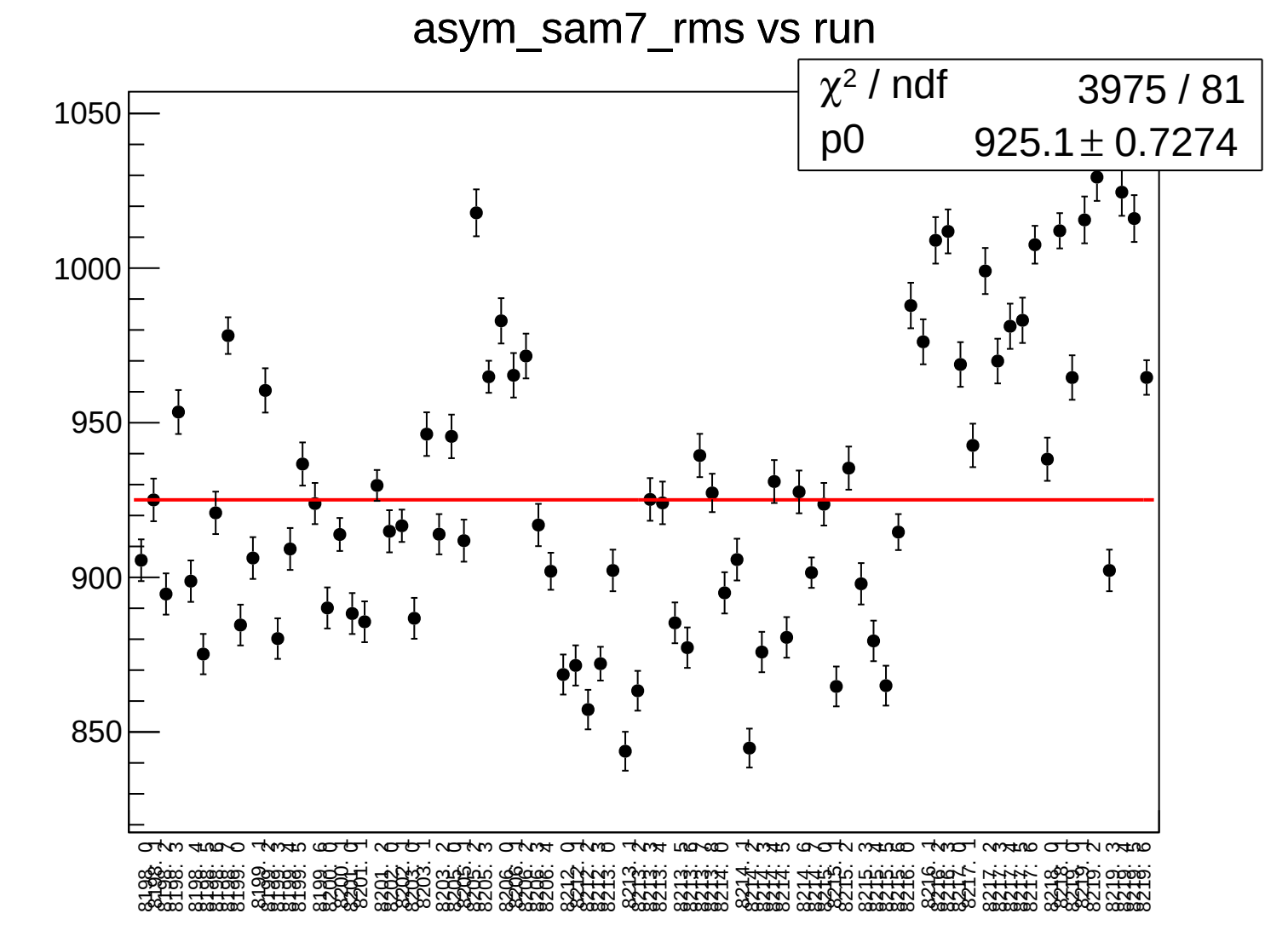

eigen_dit_asym_sam7_rms vs run
$\chi^2$ / ndf 3715 / 81
p0 77.91 ± 0.06126
90
85
80
75
70

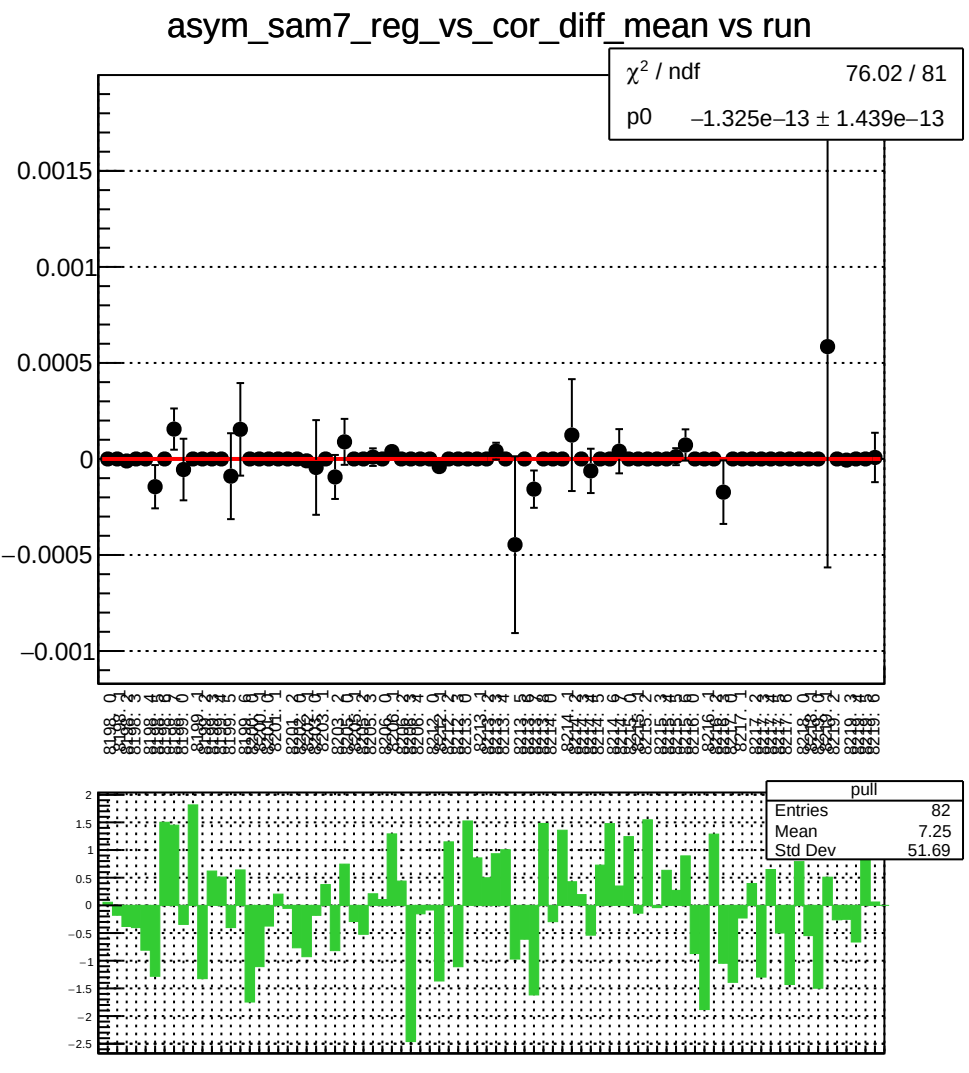

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 90.42 / 81
p0 −882.8 ± 1036
pull
Entries 82
Mean −349.6
Std Dev 0

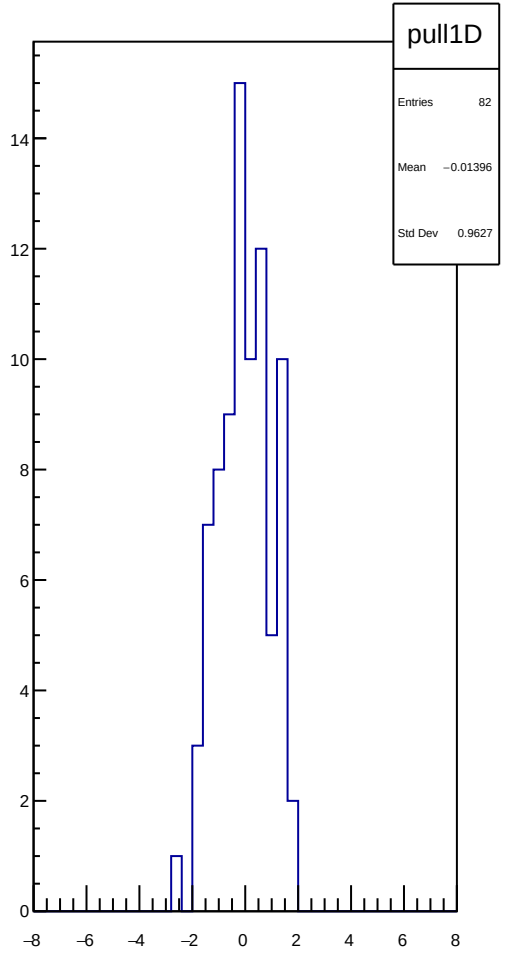

pull1D
Entries 82
Mean 0.005955
Std Dev 1.05

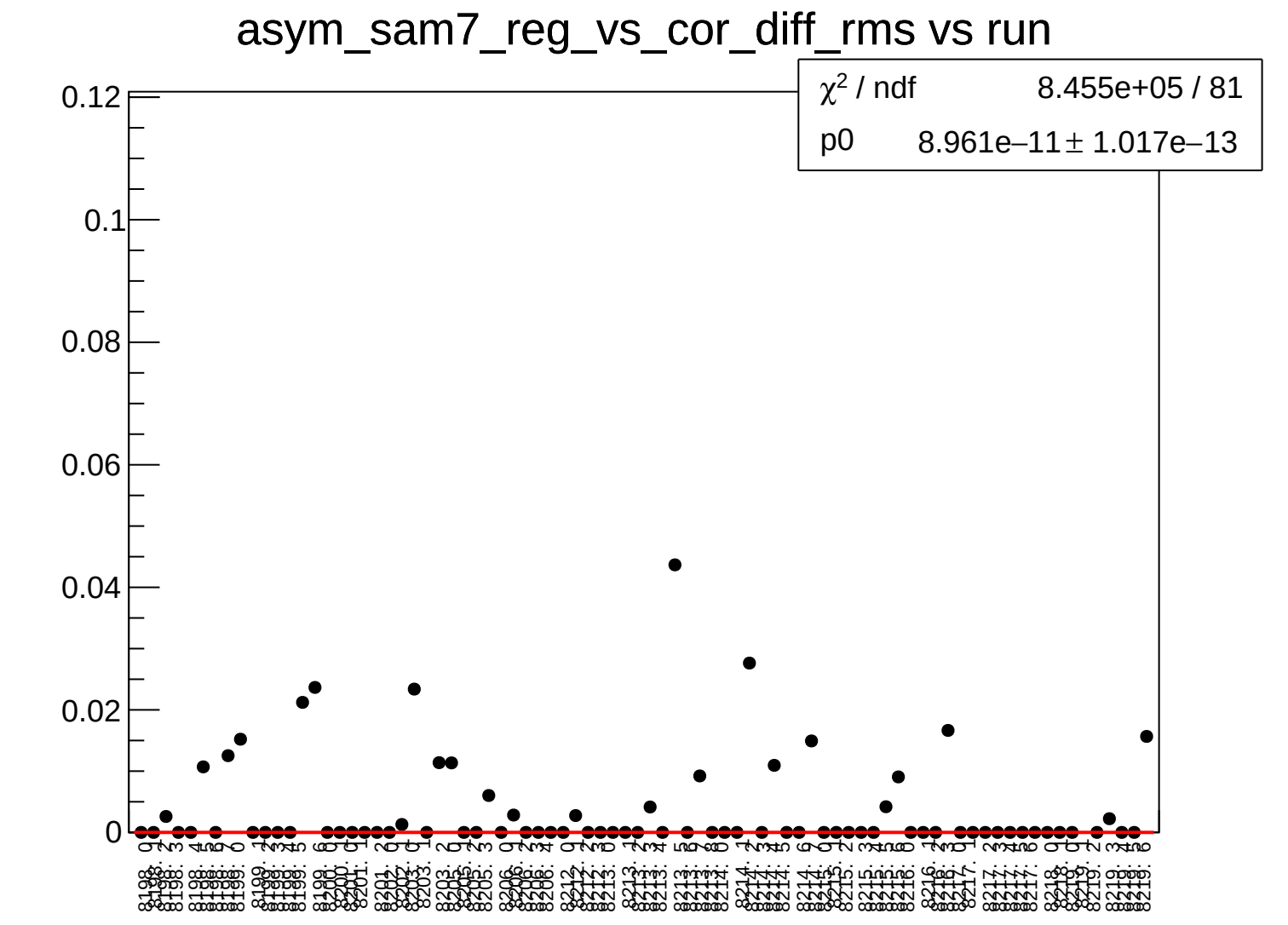

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 4581 / 81
p0 931.7 ± 0.7328
1050
1000
950
900
850

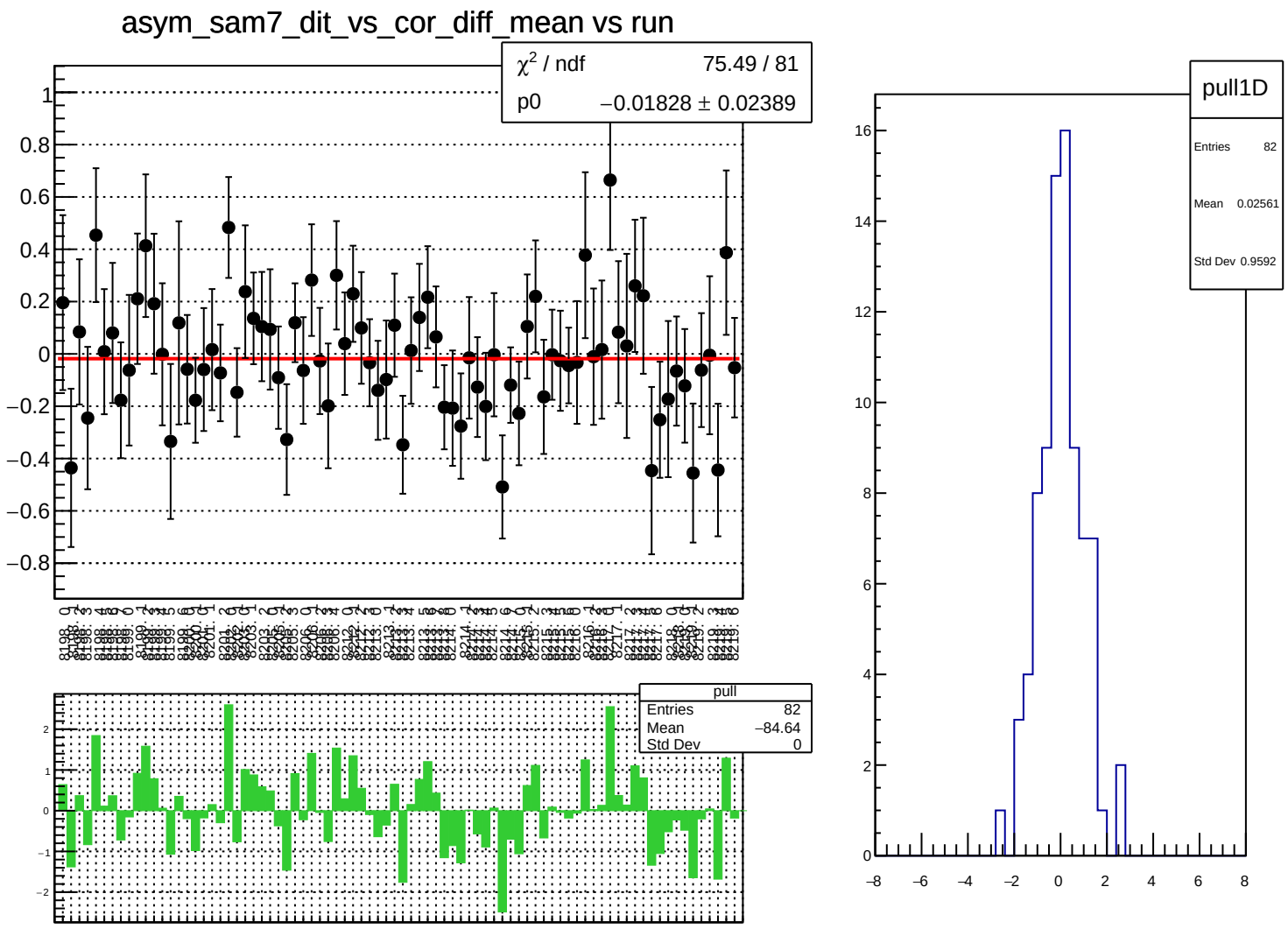

asym_sam7_mean vs run
χ² / ndf 92.58 / 81
p0 861.7 ± 1029
pull
Entries 82
Mean −522.6
Std Dev 0
pull1D
Entries 82
Mean −0.004531
Std Dev 1.063

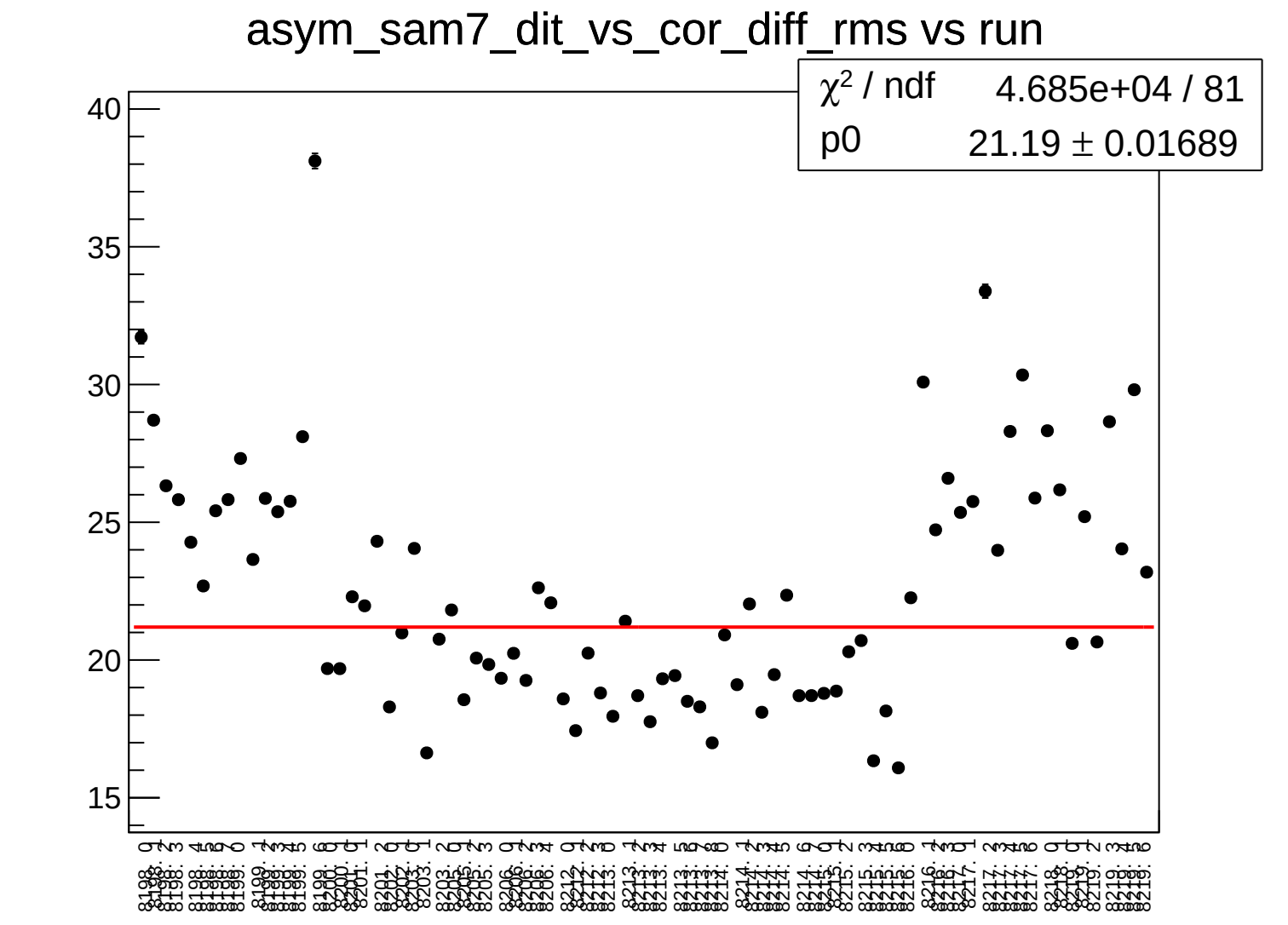

asym_sam7_rms vs run
χ² / ndf 3975 / 81
p0 925.1 ± 0.7274
1050
1000
950
900
850

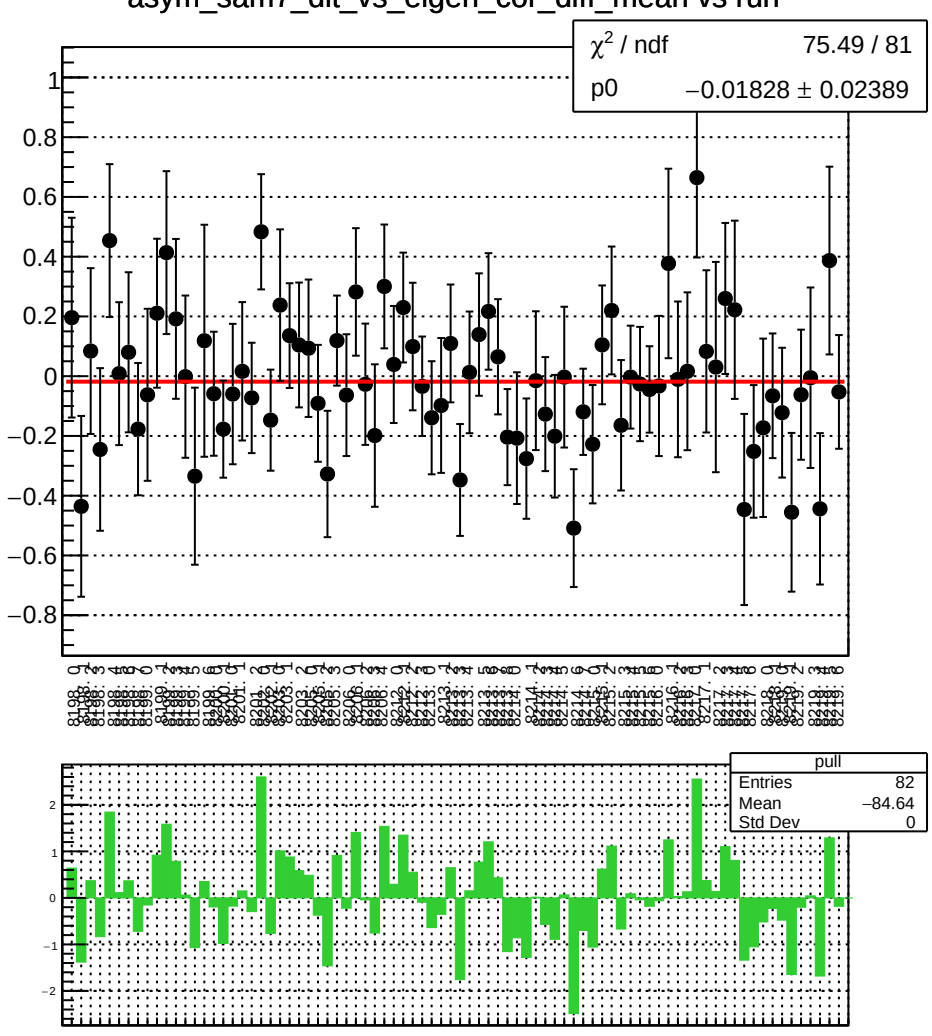

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 76.02 / 81
p0 −1.325e−13 ± 1.439e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean 7.25
Std Dev 51.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

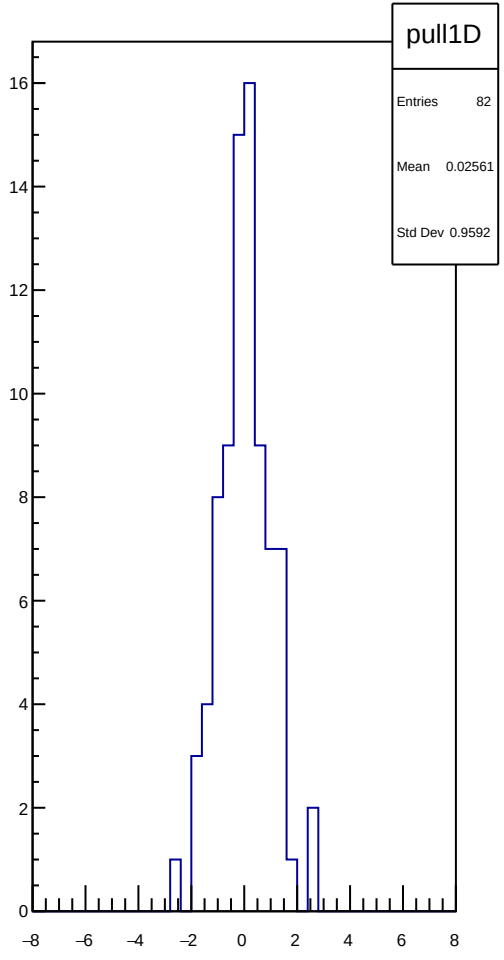

pull1D
Entries 82
Mean −0.01396
Std Dev 0.9627
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

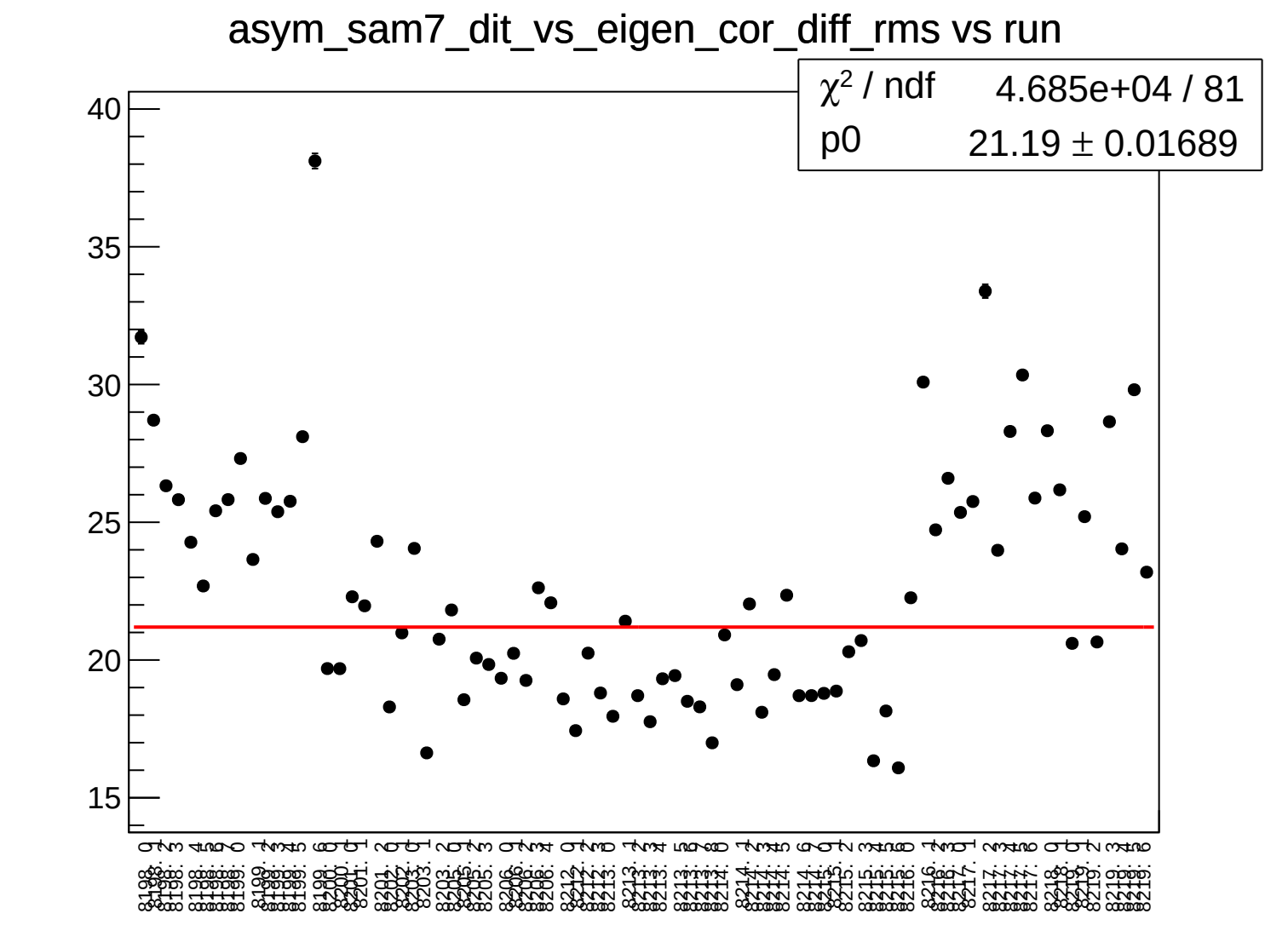

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 8.455e+05 / 81
p0 8.961e−11 ± 1.017e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

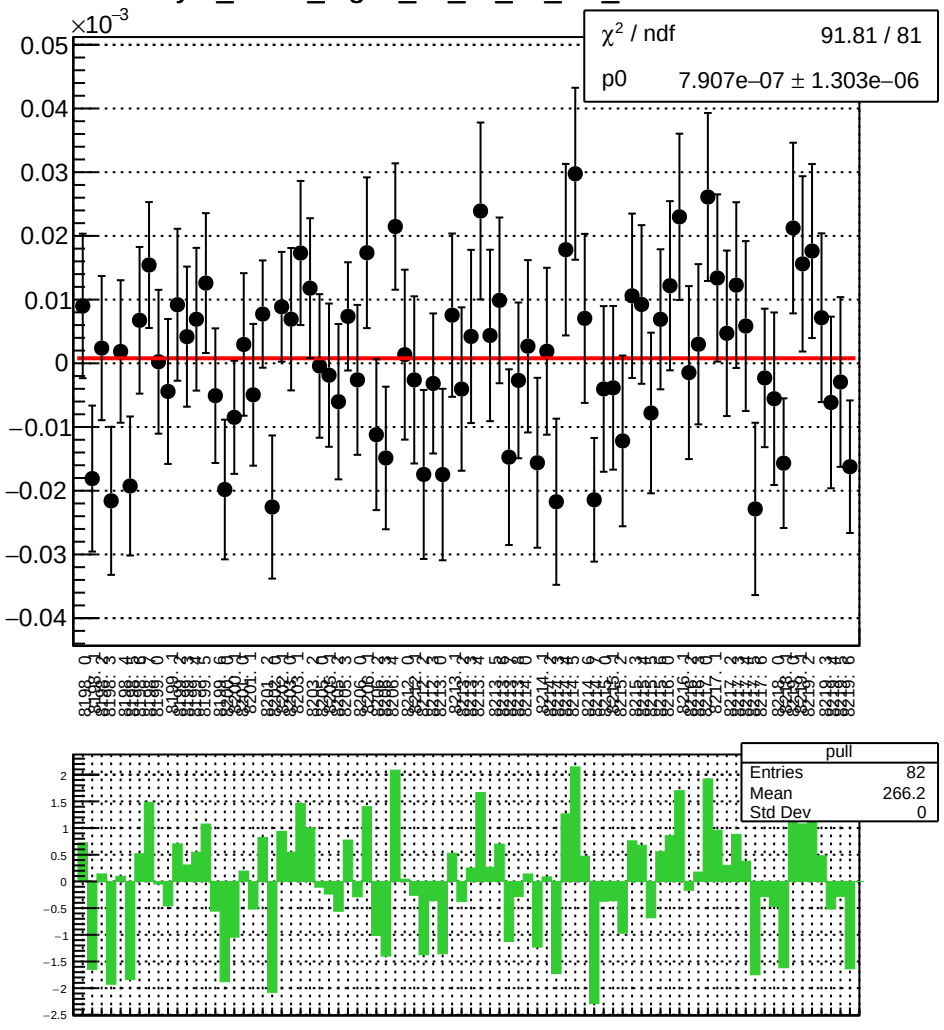

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 75.49 / 81
p0 −0.01828 ± 0.02389
pull
Entries 82
Mean −84.64
Std Dev 0
pull1D
Entries 82
Mean 0.02561
Std Dev 0.9592

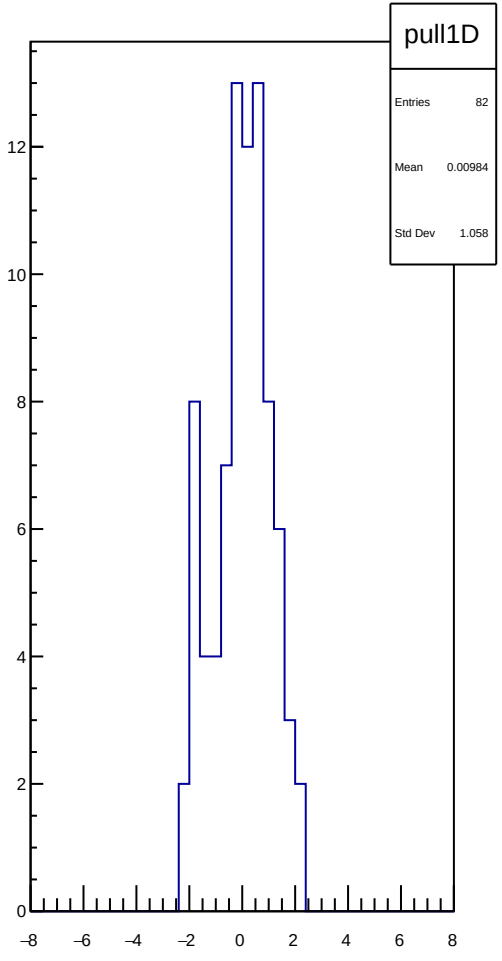

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 4.685e+04 / 81
p0 21.19 ± 0.01689
40
35
30
25
20
15

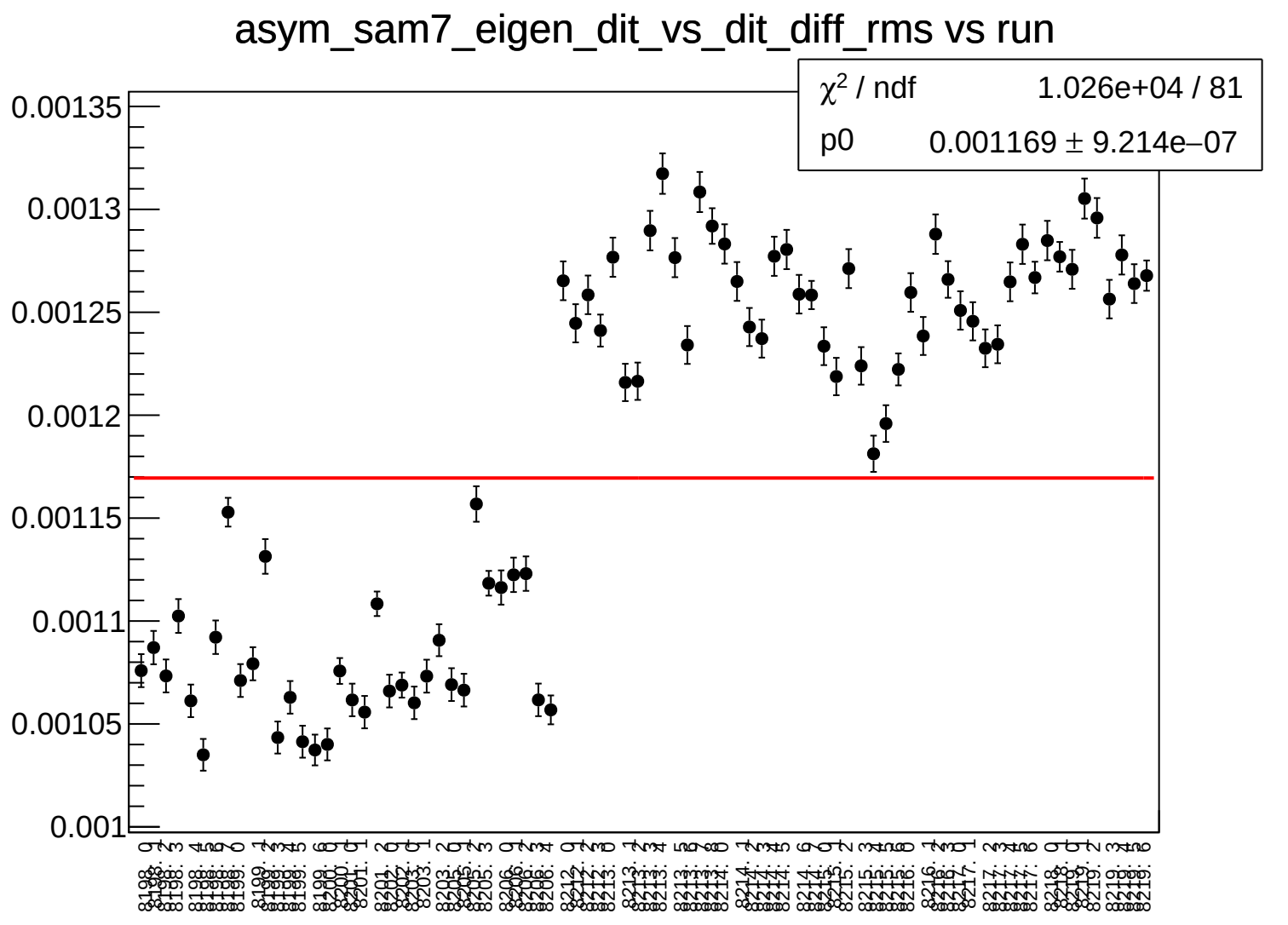

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.49 / 81
p0 −0.01828 ± 0.02389
pull
Entries 82
Mean −84.64
Std Dev 0

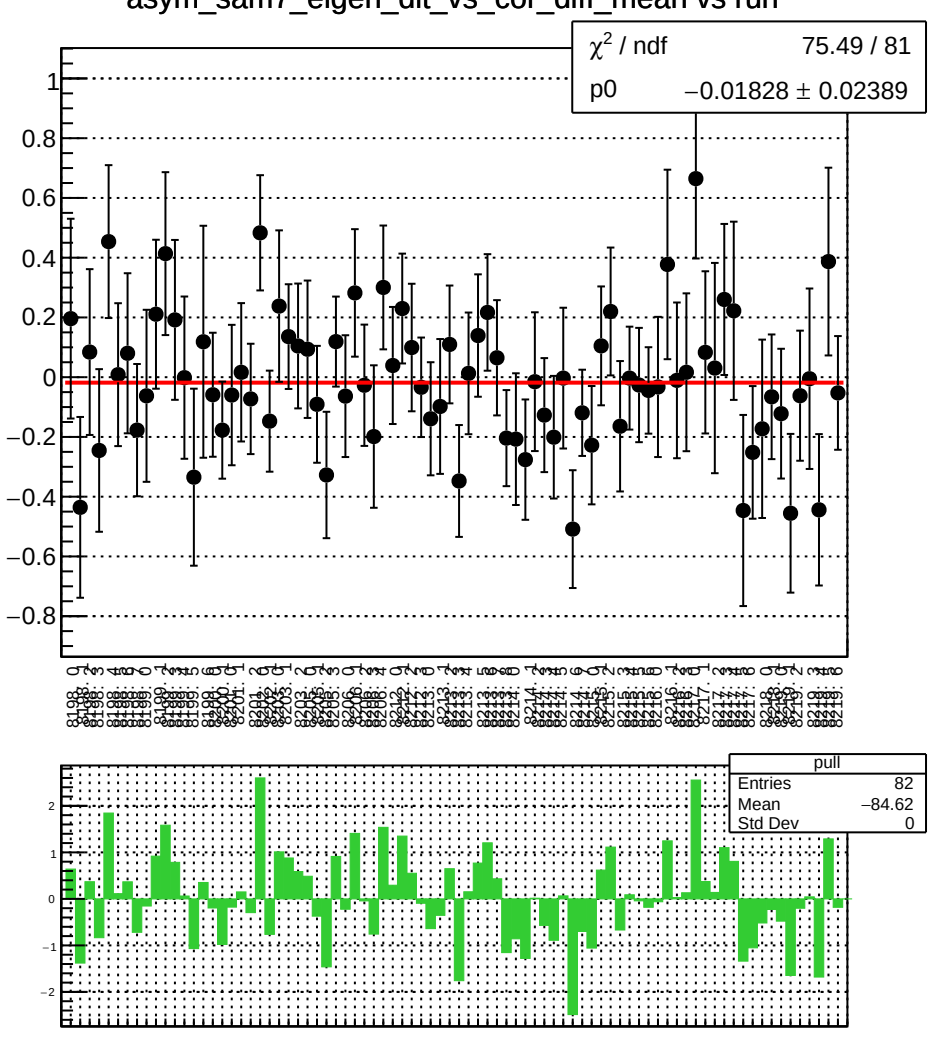

pull1D
Entries 82
Mean 0.02561
Std Dev 0.9592

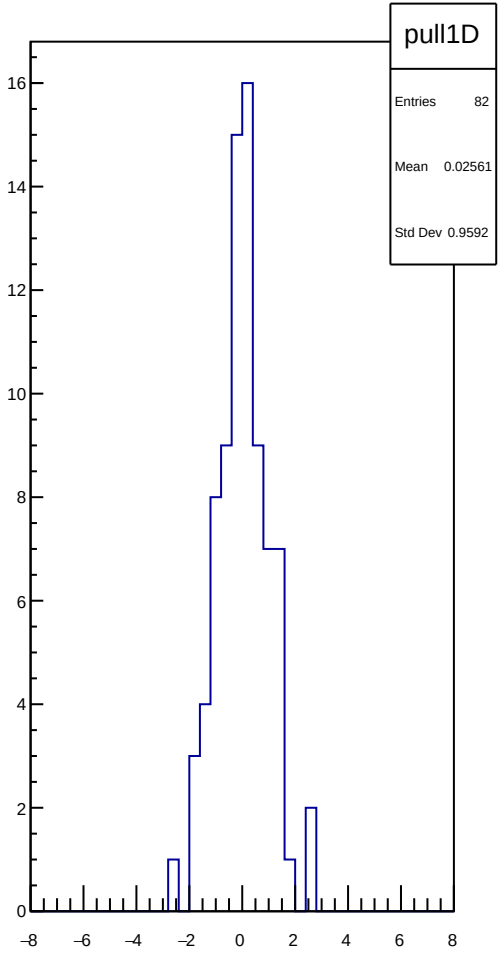

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.685e+04 / 81
p0 21.19 ± 0.01689
40
35
30
25
20
15

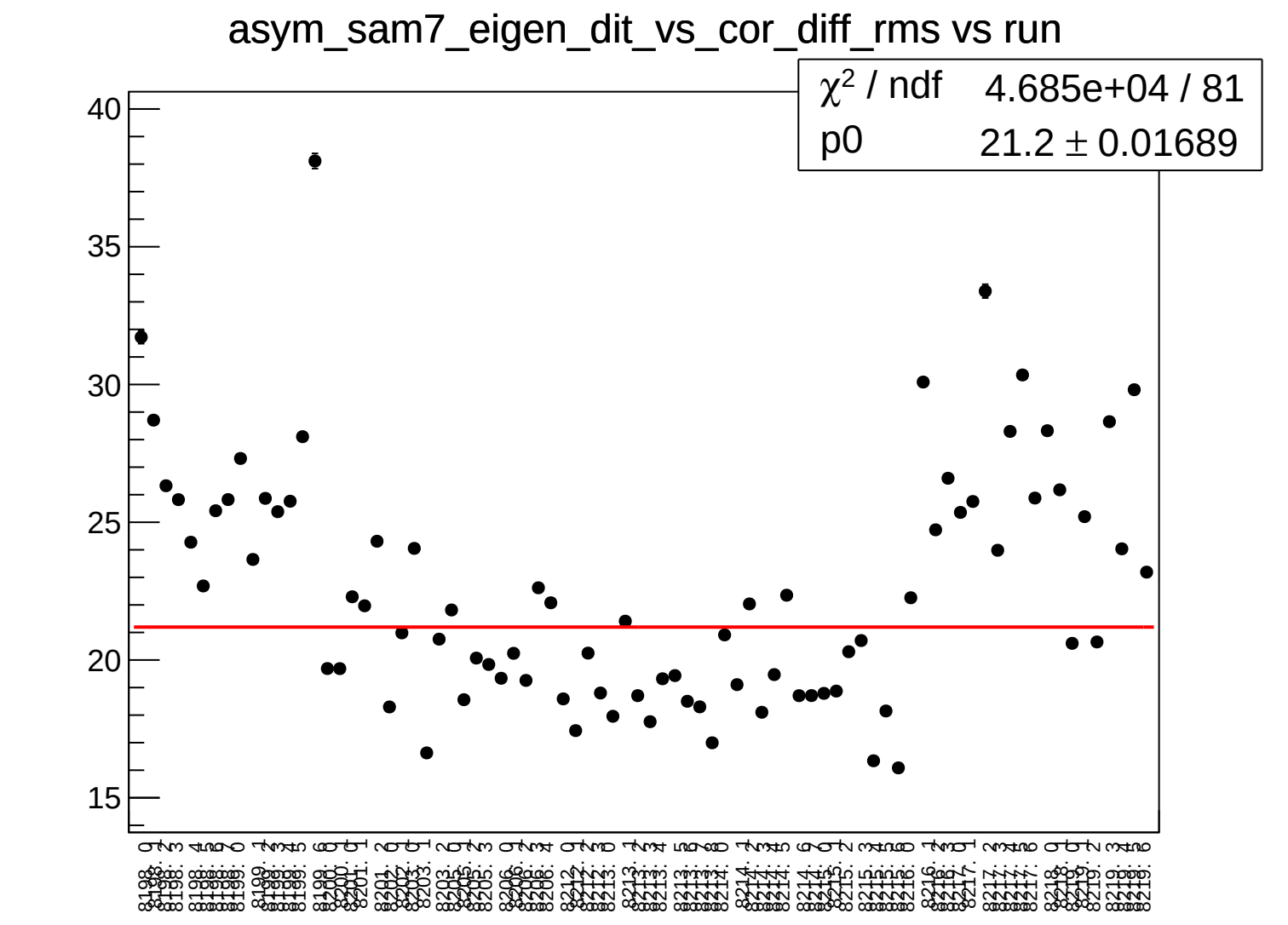

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.81 / 81
p0 7.907e−07 ± 1.303e−06
pull
Entries 82
Mean 266.2
Std Dev 0

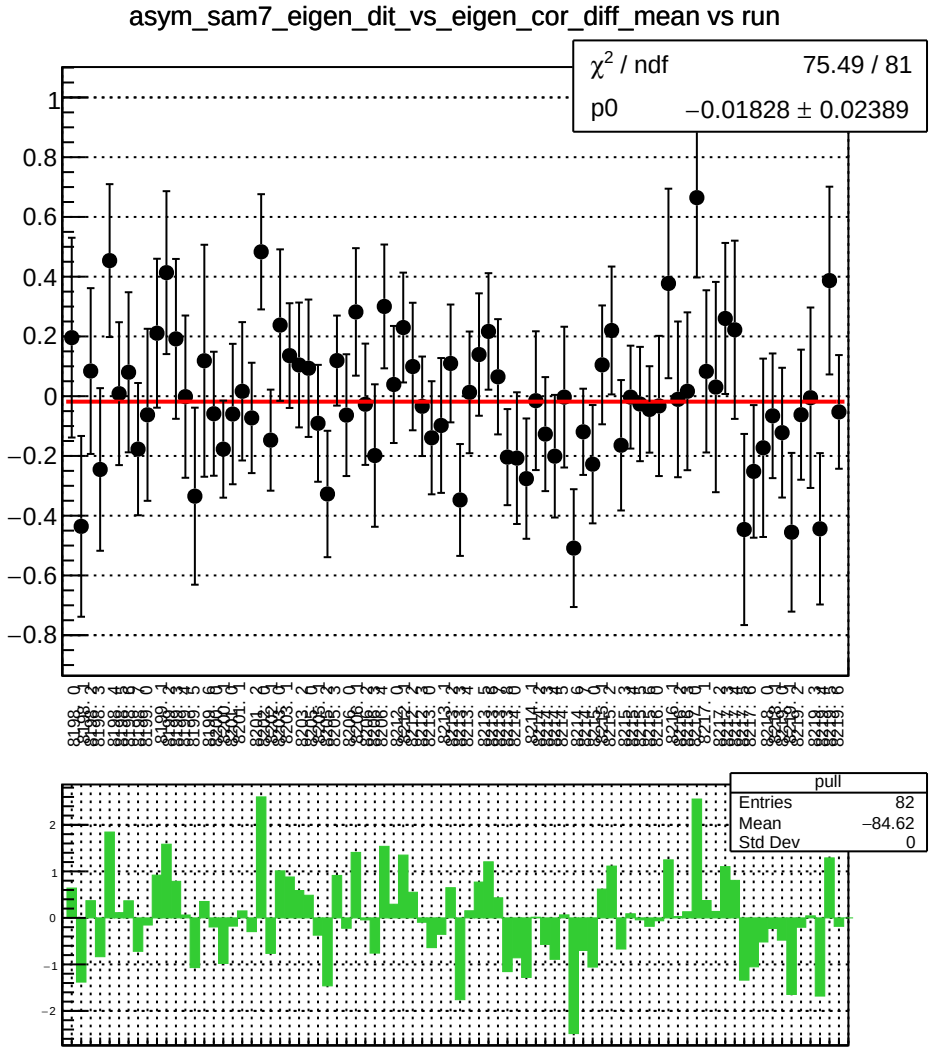

pull1D
Entries 82
Mean 0.00984
Std Dev 1.058

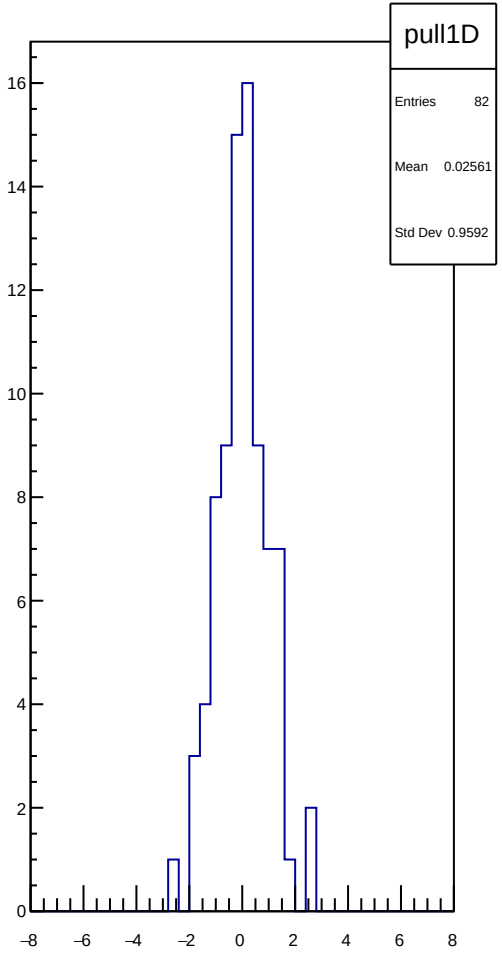

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.026e+04 / 81
p0 0.001169 ± 9.214e−07
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105
0.001

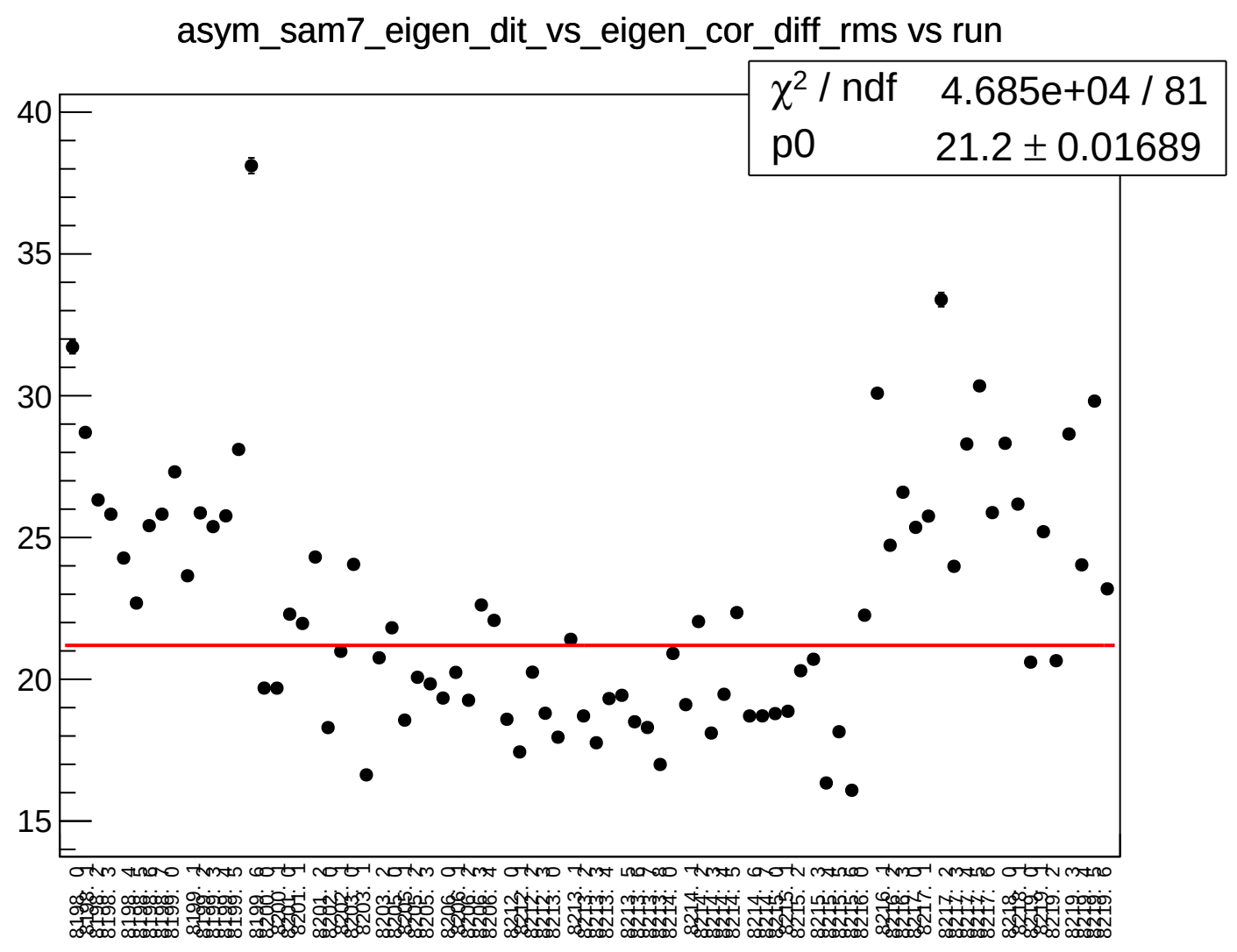

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.49 / 81
p0 −0.01828 ± 0.02389
pull
Entries 82
Mean −84.62
Std Dev 0

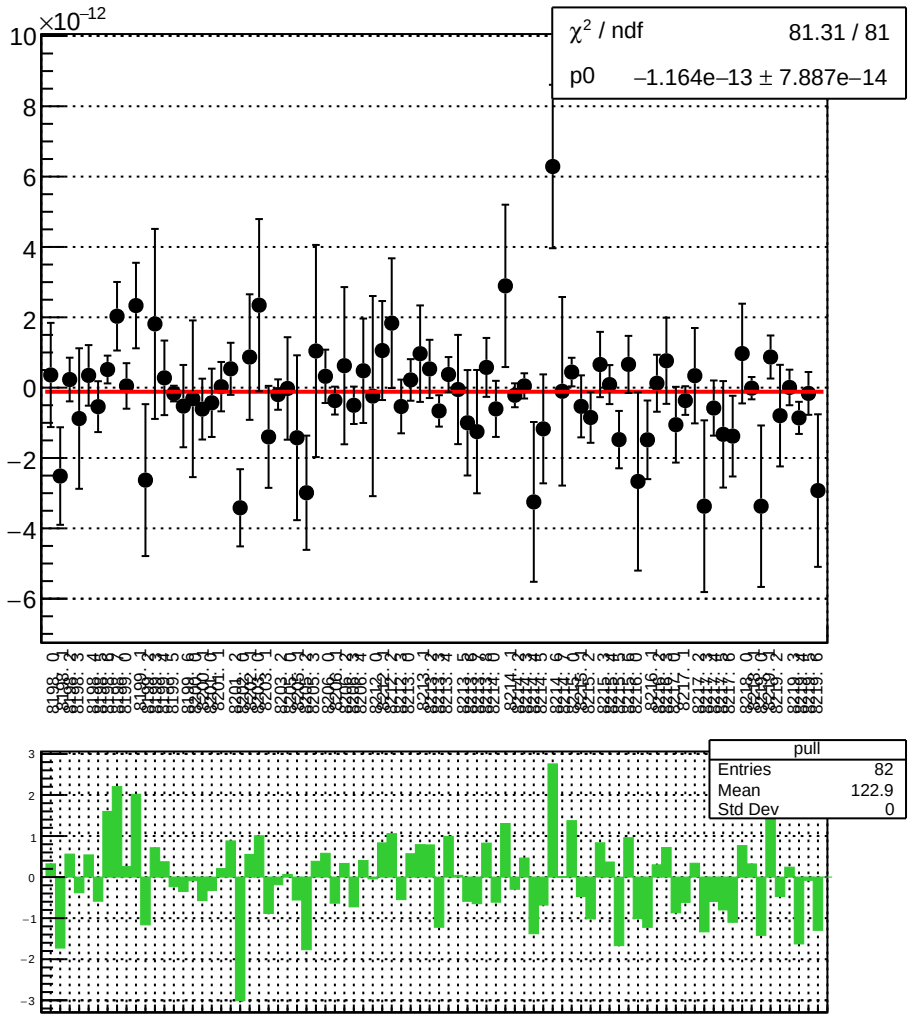

pull1D
Entries 82
Mean 0.02561
Std Dev 0.9592

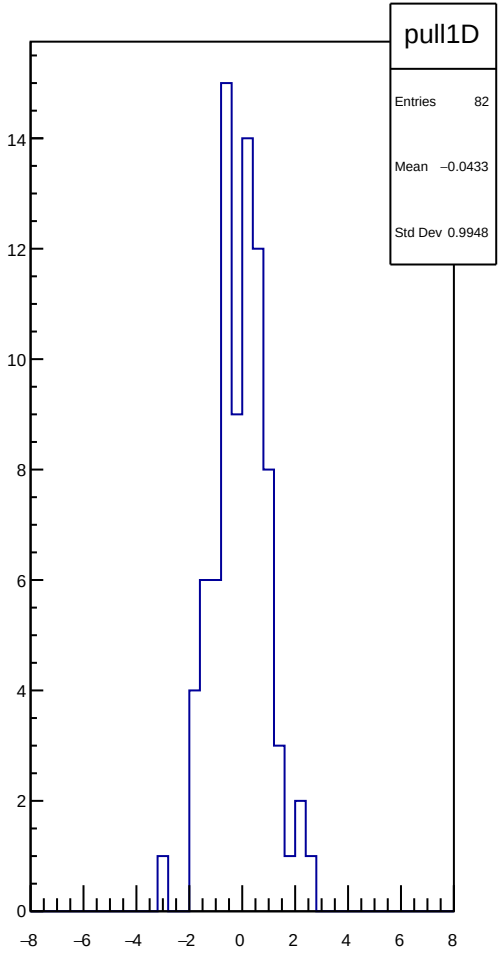

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.685e+04 / 81
p0 21.2 ± 0.01689
40
35
30
25
20
15

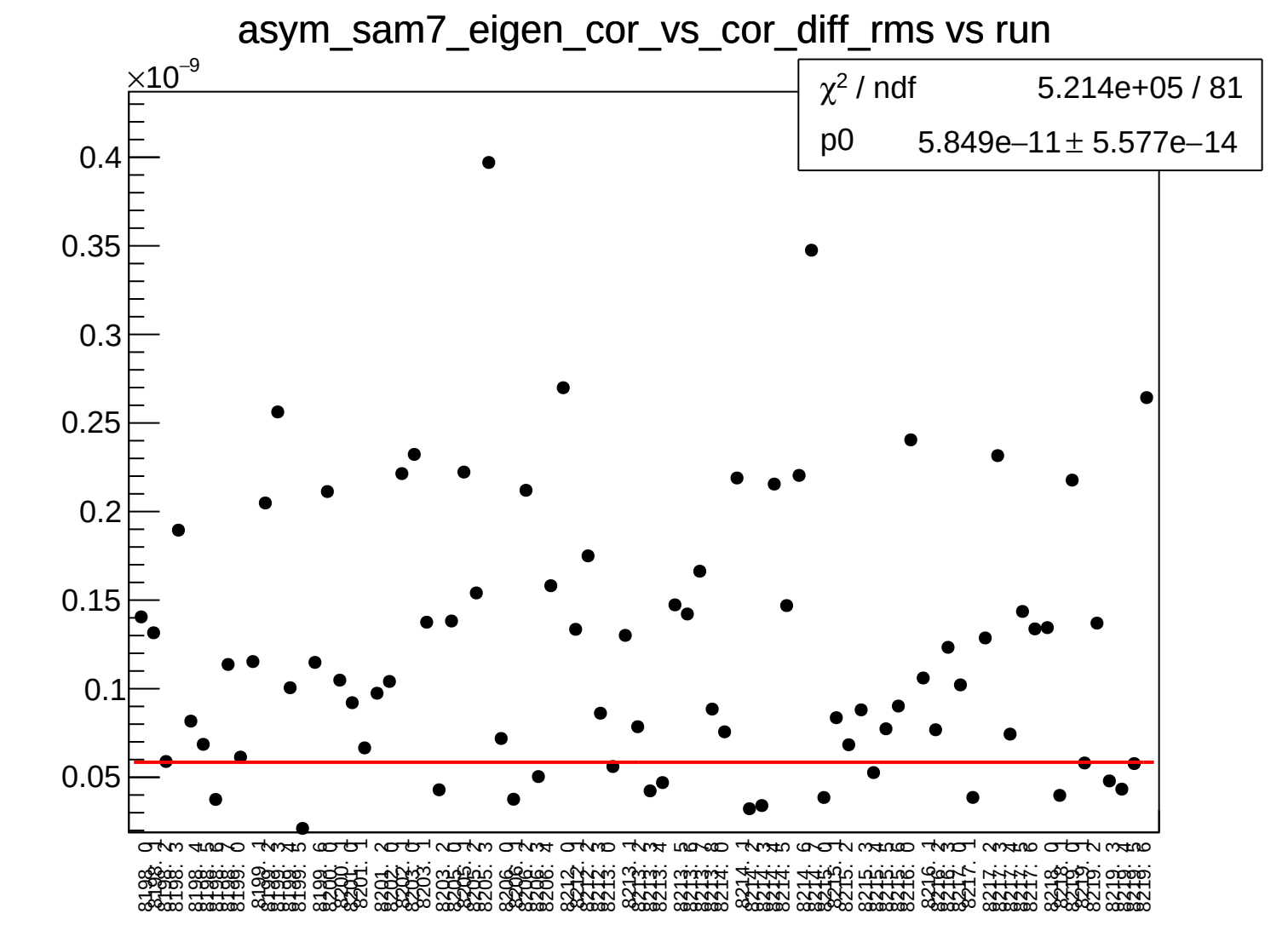

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.49 / 81
p0 −0.01828 ± 0.02389
pull
Entries 82
Mean −84.62
Std Dev 0

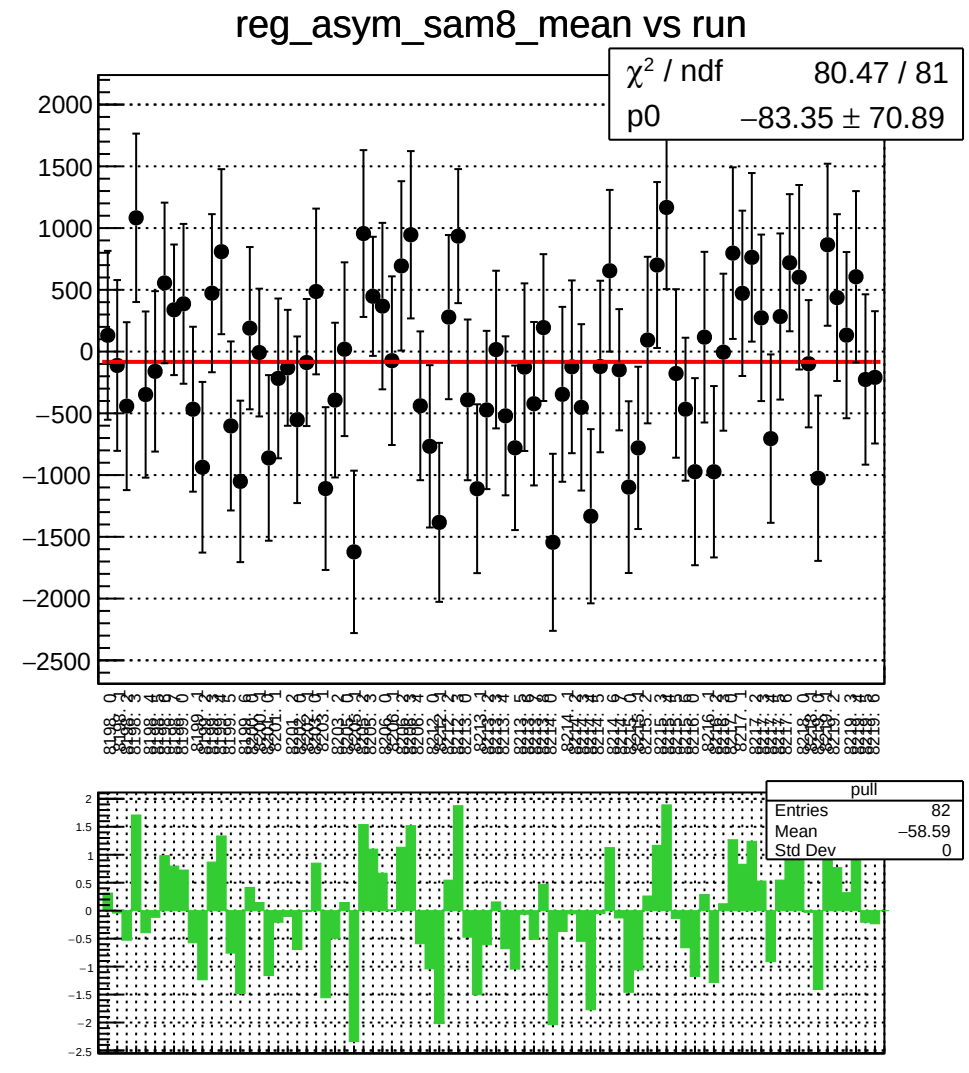

pull1D
Entries 82
Mean 0.02561
Std Dev 0.9592

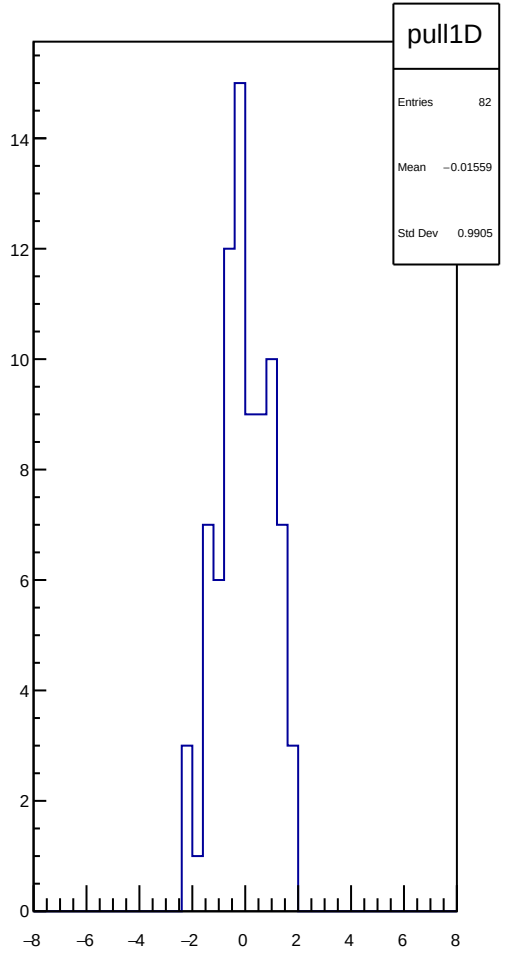

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.685e+04 / 81
p0 21.2 ± 0.01689
40
35
30
25
20
15

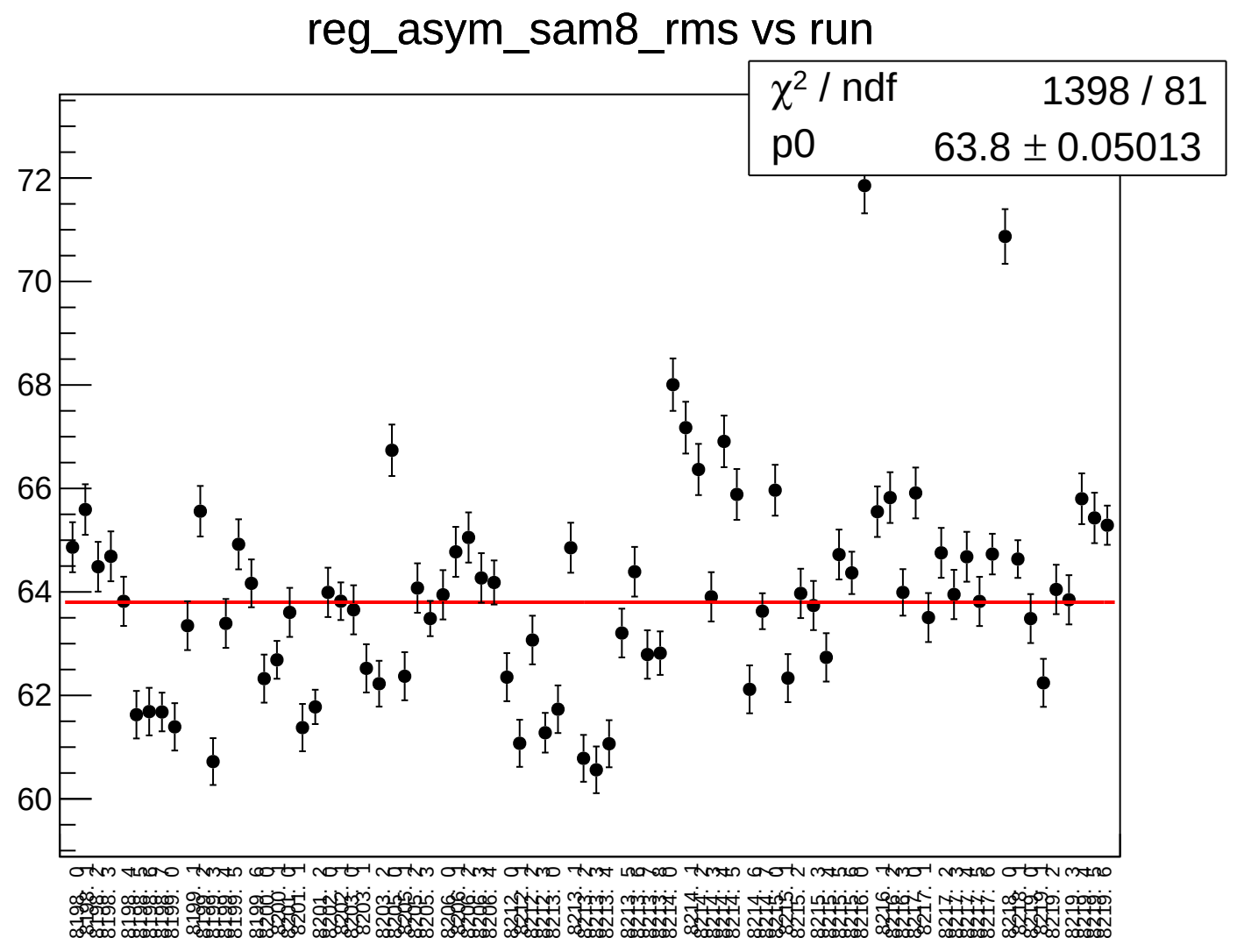

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.31 / 81
p0 −1.164e−13 ± 7.887e−14
pull
Entries 82
Mean 122.9
Std Dev 0

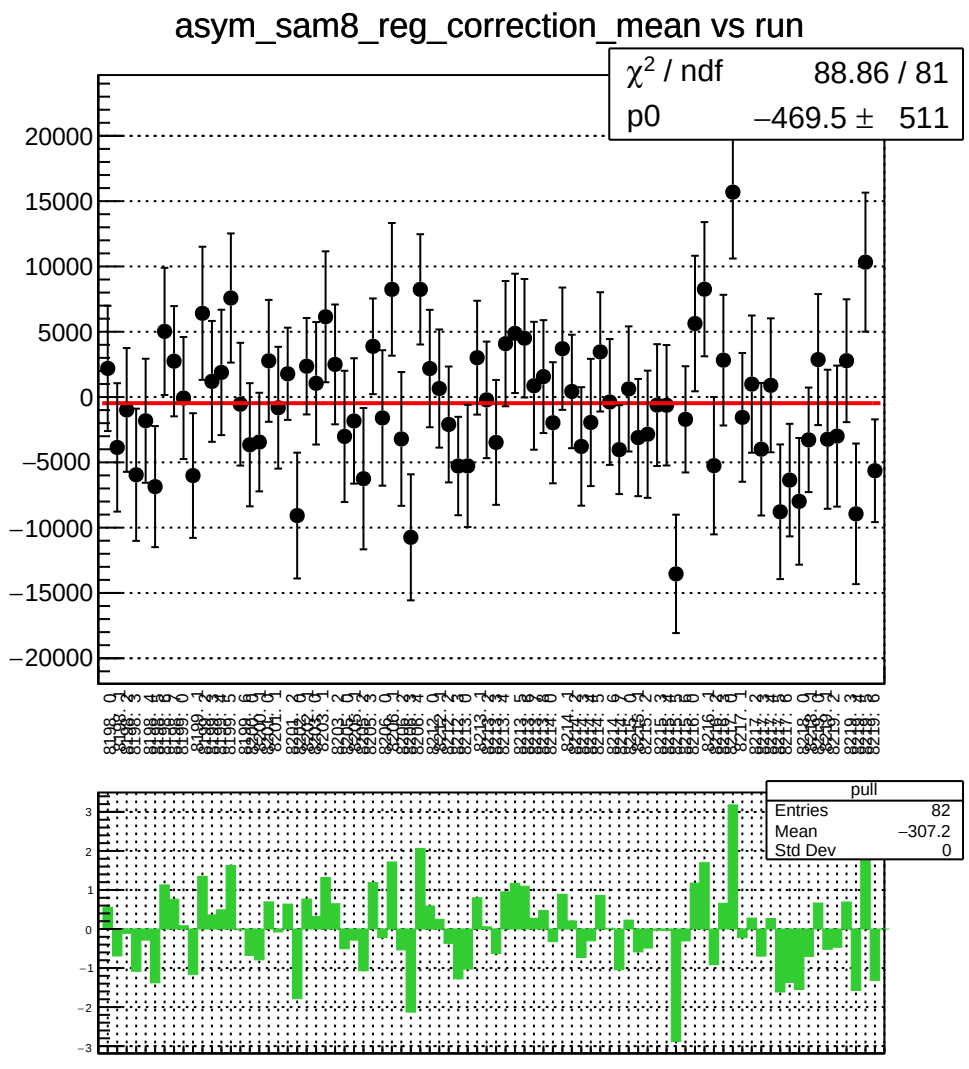

pull1D
Entries 82
Mean −0.0433
Std Dev 0.9948

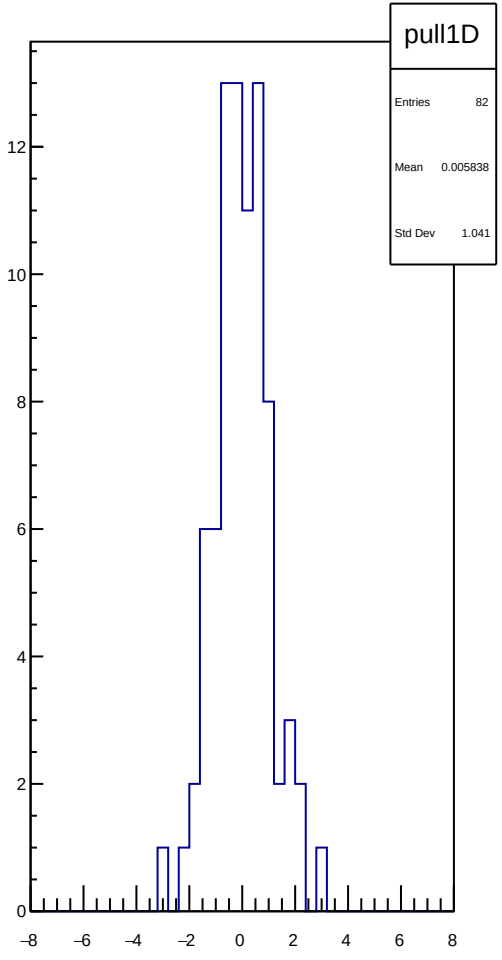

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.214e+05 / 81
p0 5.849e−11 ± 5.577e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

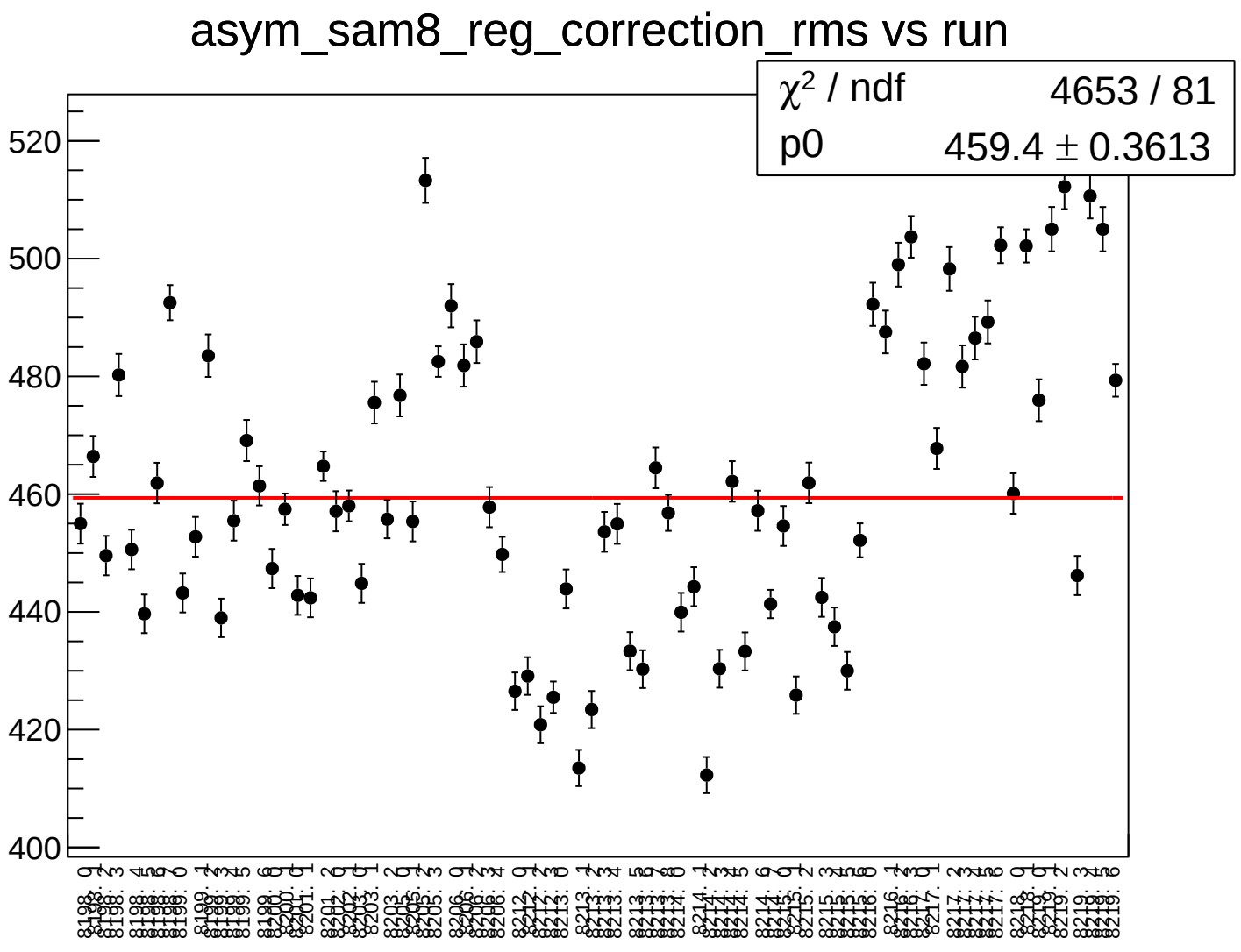

reg_asym_sam8_mean vs run
χ² / ndf 80.47 / 81
p0 −83.35 ± 70.89
pull
Entries 82
Mean −58.59
Std Dev 0

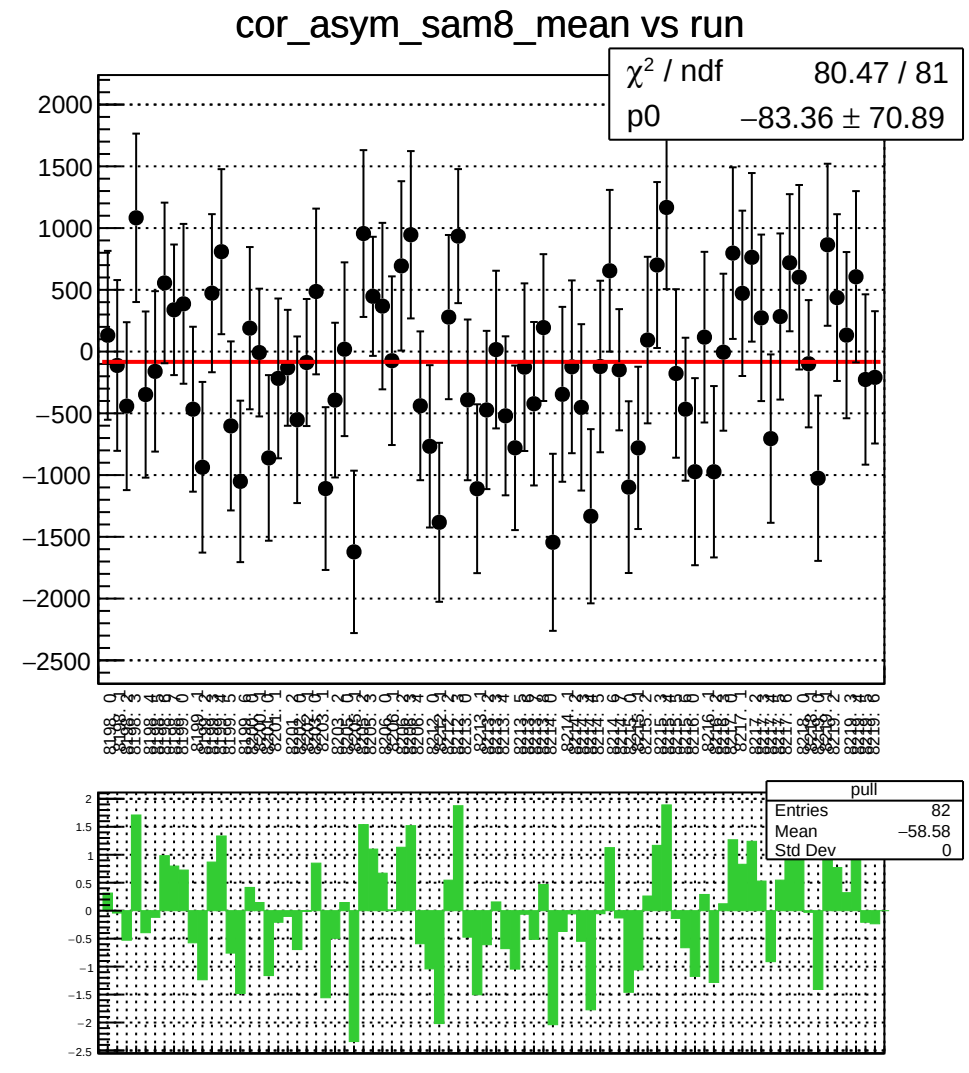

pull1D
Entries 82
Mean −0.01559
Std Dev 0.9905

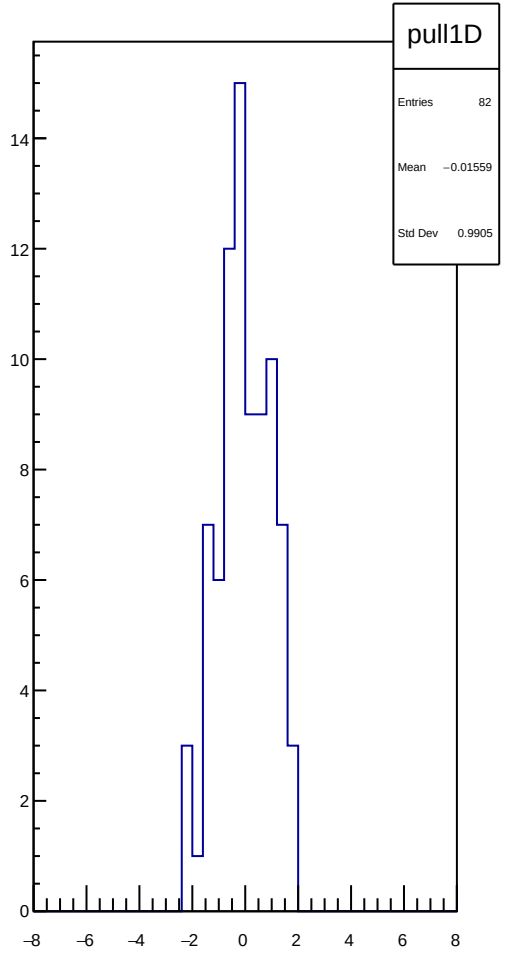

reg_asym_sam8_rms vs run
χ² / ndf 1398 / 81
p0 63.8 ± 0.05013
72
70
68
66
64
62
60

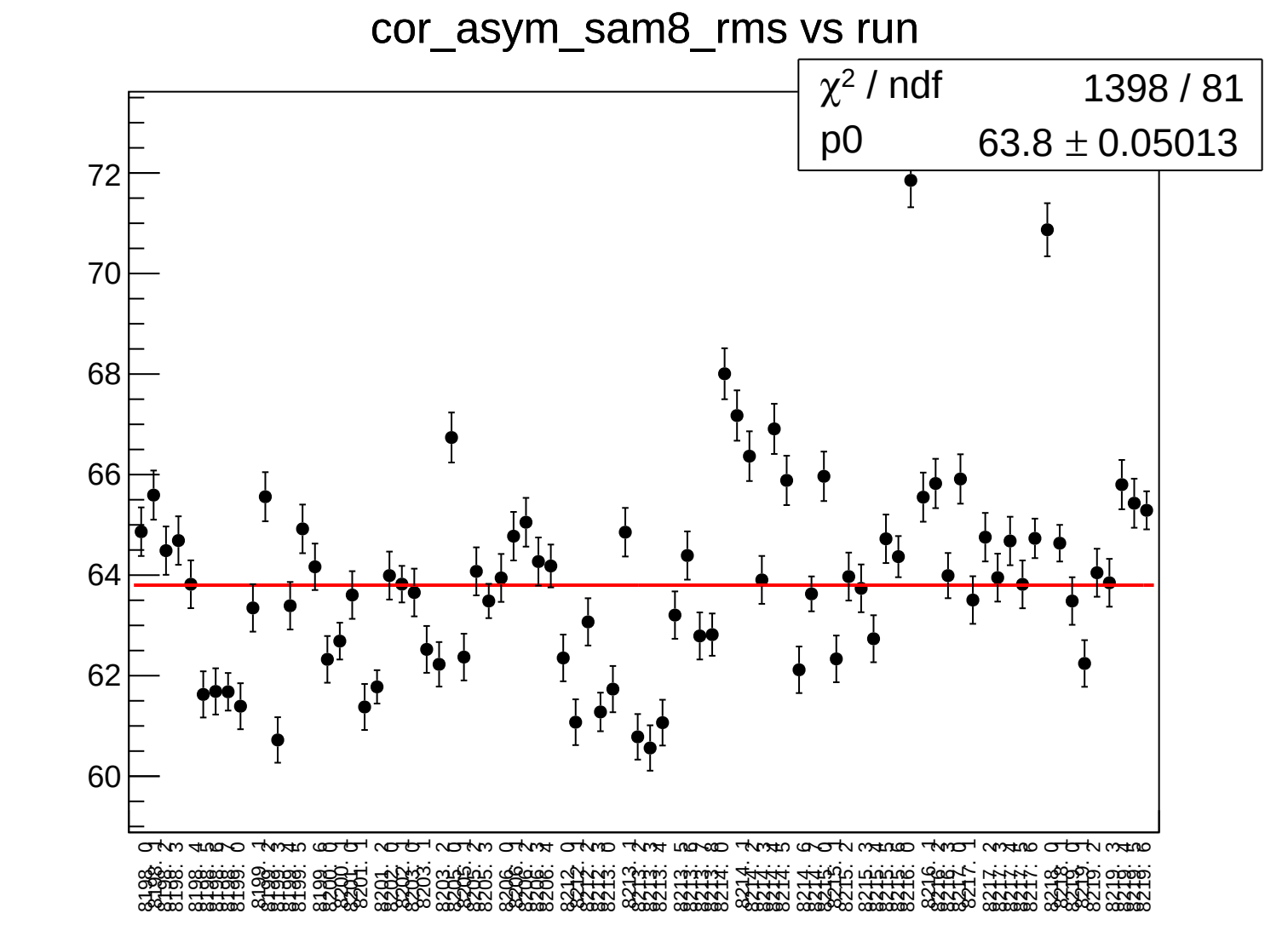

asym_sam8_reg_correction_mean vs run
χ² / ndf 88.86 / 81
p0 −469.5 ± 511
pull
Entries 82
Mean −307.2
Std Dev 0

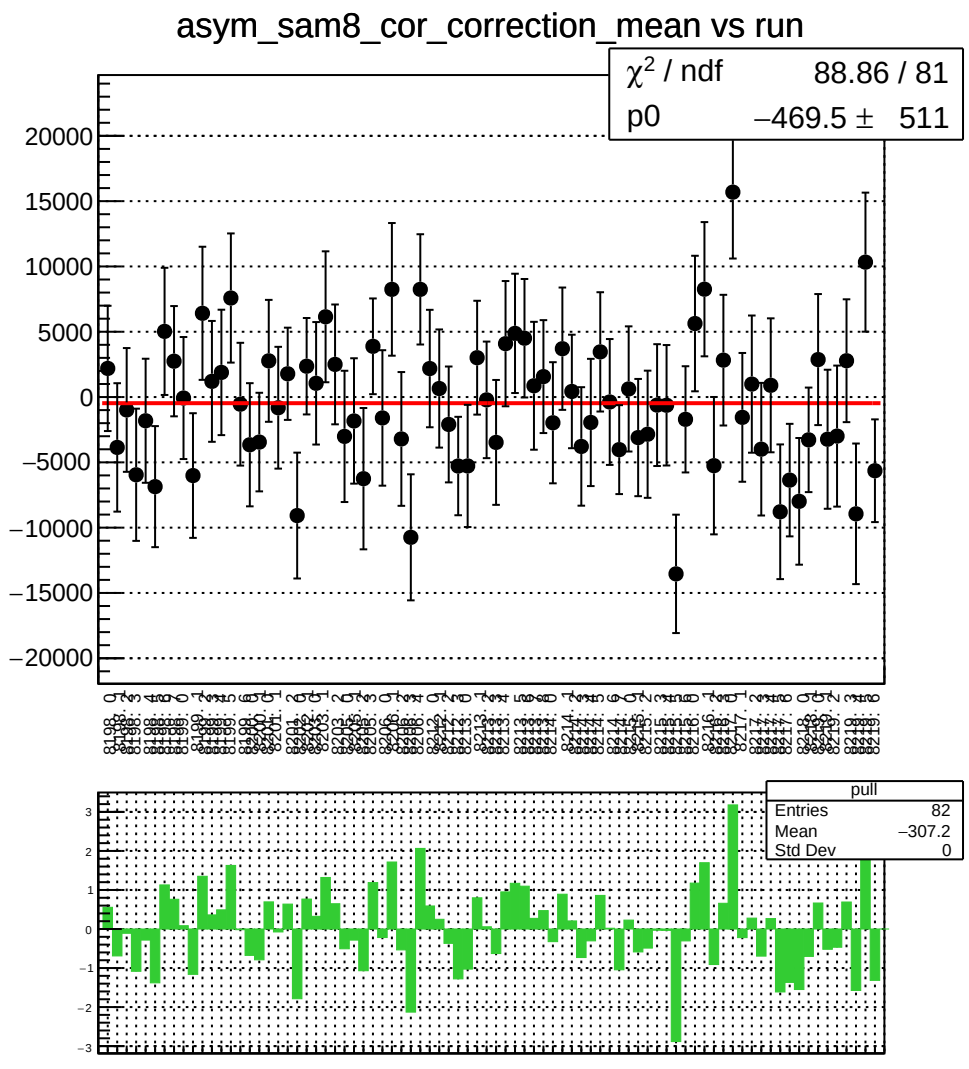

pull1D
Entries 82
Mean 0.005838
Std Dev 1.041

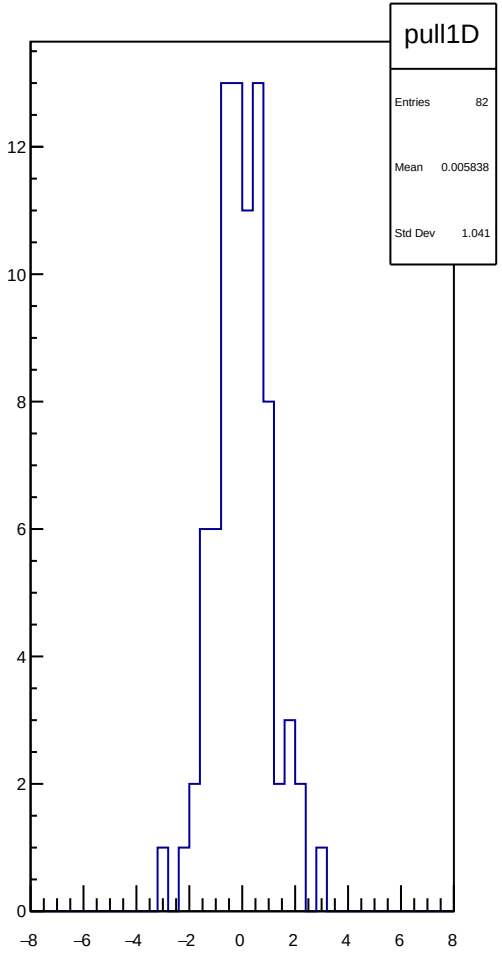

asym_sam8_reg_correction_rms vs run
χ² / ndf 4653 / 81
p0 459.4 ± 0.3613
520
500
480
460
440
420
400

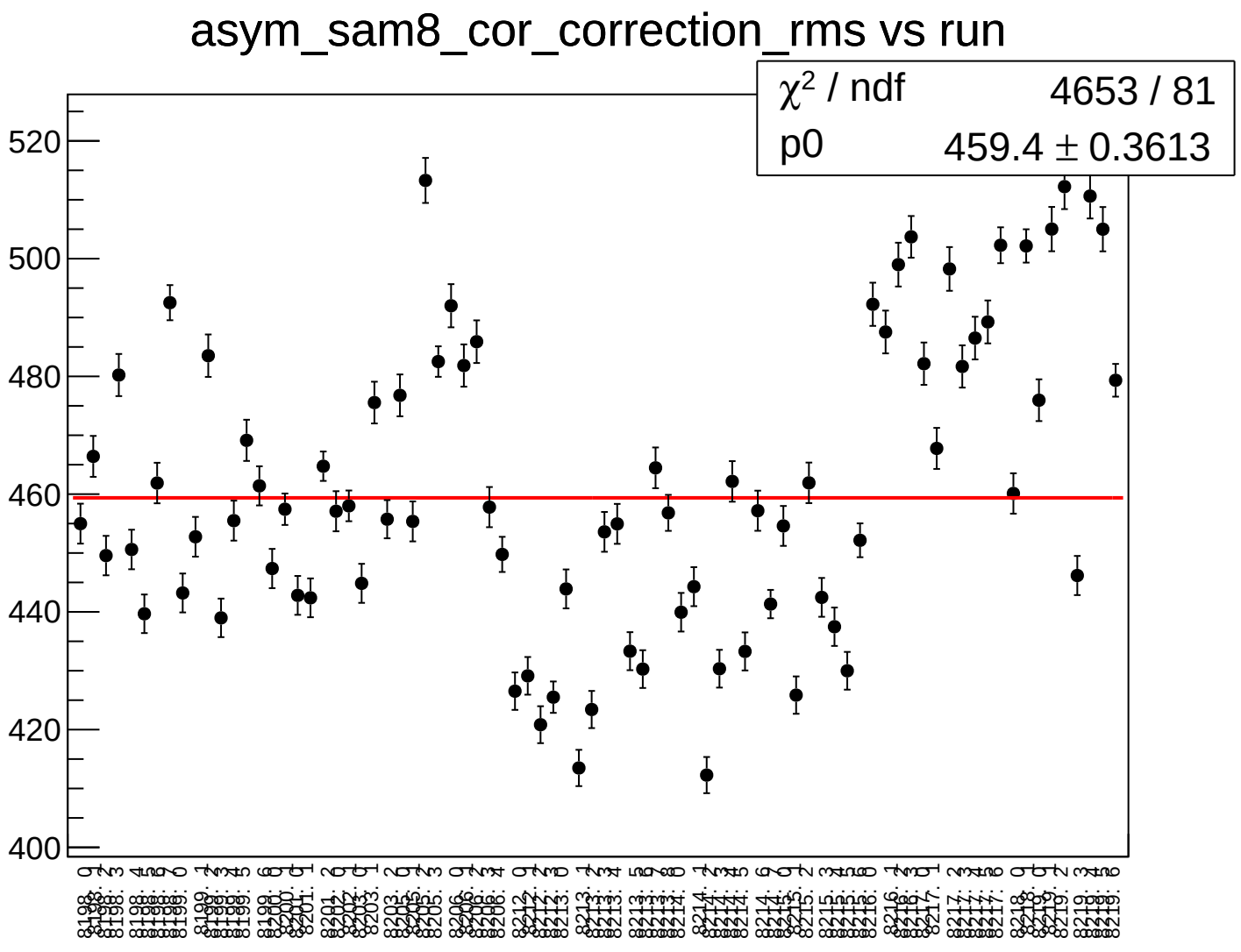

cor_asym_sam8_mean vs run
χ² / ndf 80.47 / 81
p0 −83.36 ± 70.89
pull
Entries 82
Mean −58.58
Std Dev 0

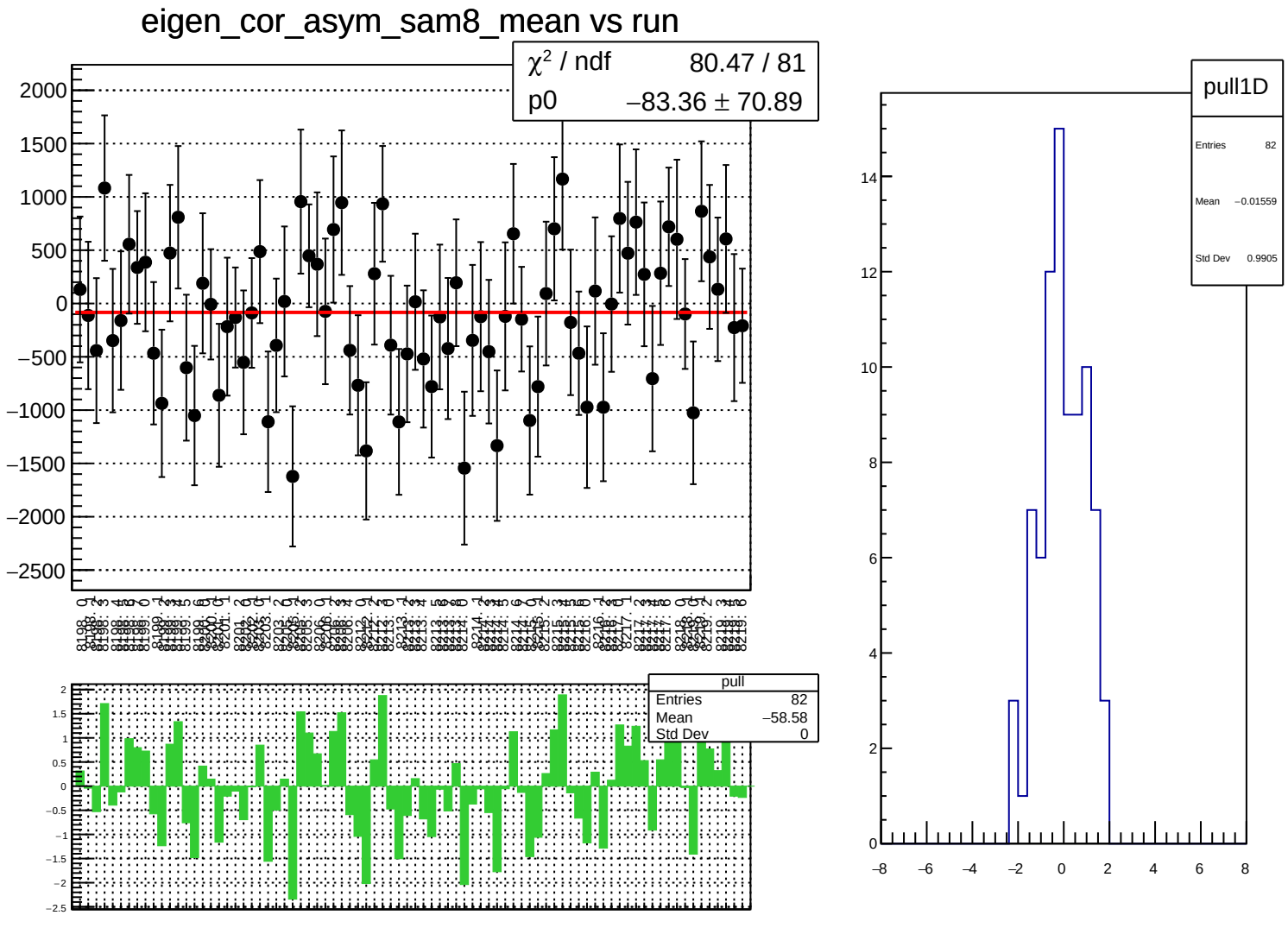

pull1D
Entries 82
Mean −0.01559
Std Dev 0.9905

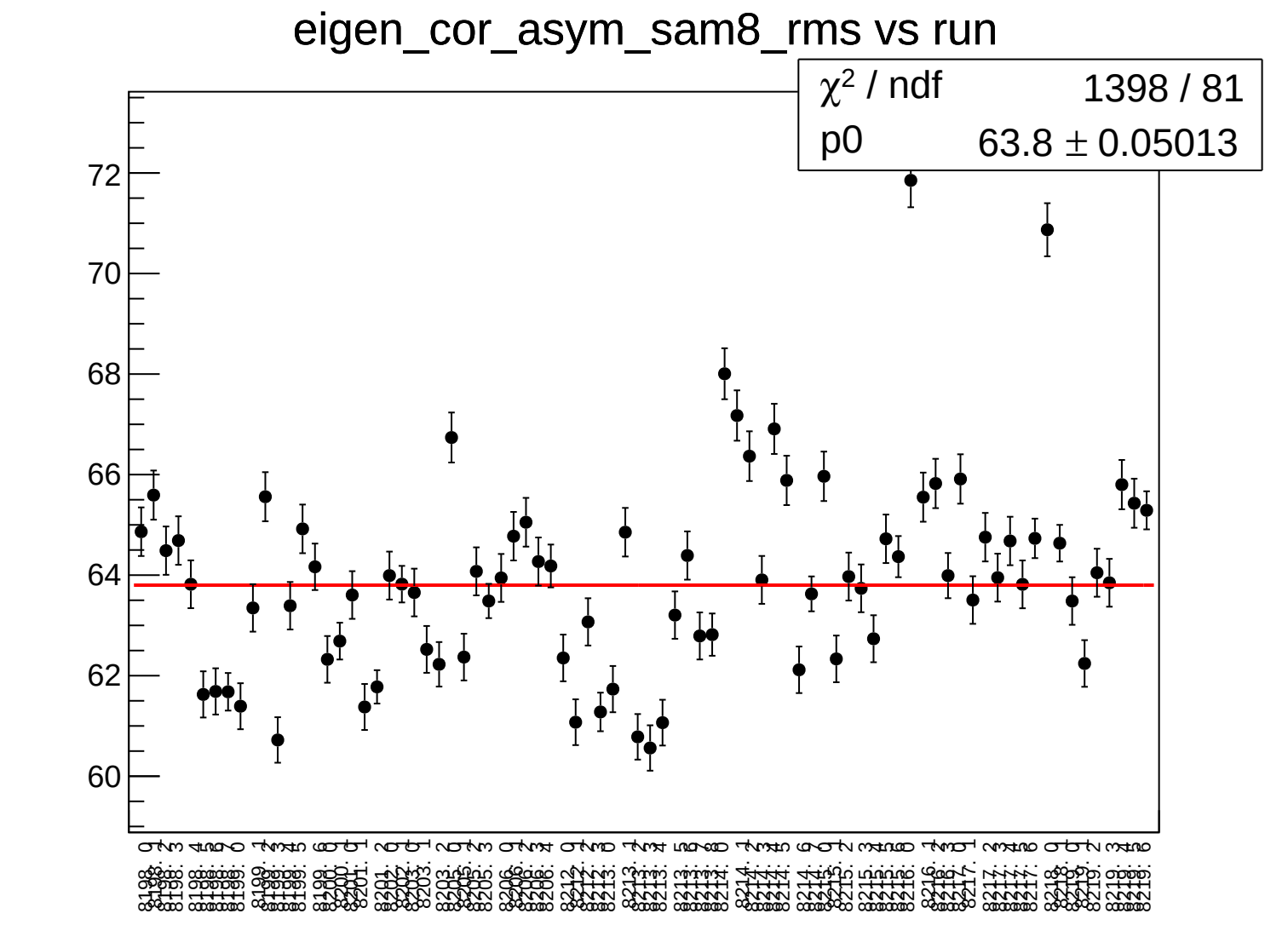

cor_asym_sam8_rms vs run
χ² / ndf 1398 / 81
p0 63.8 ± 0.05013
72
70
68
66
64
62
60

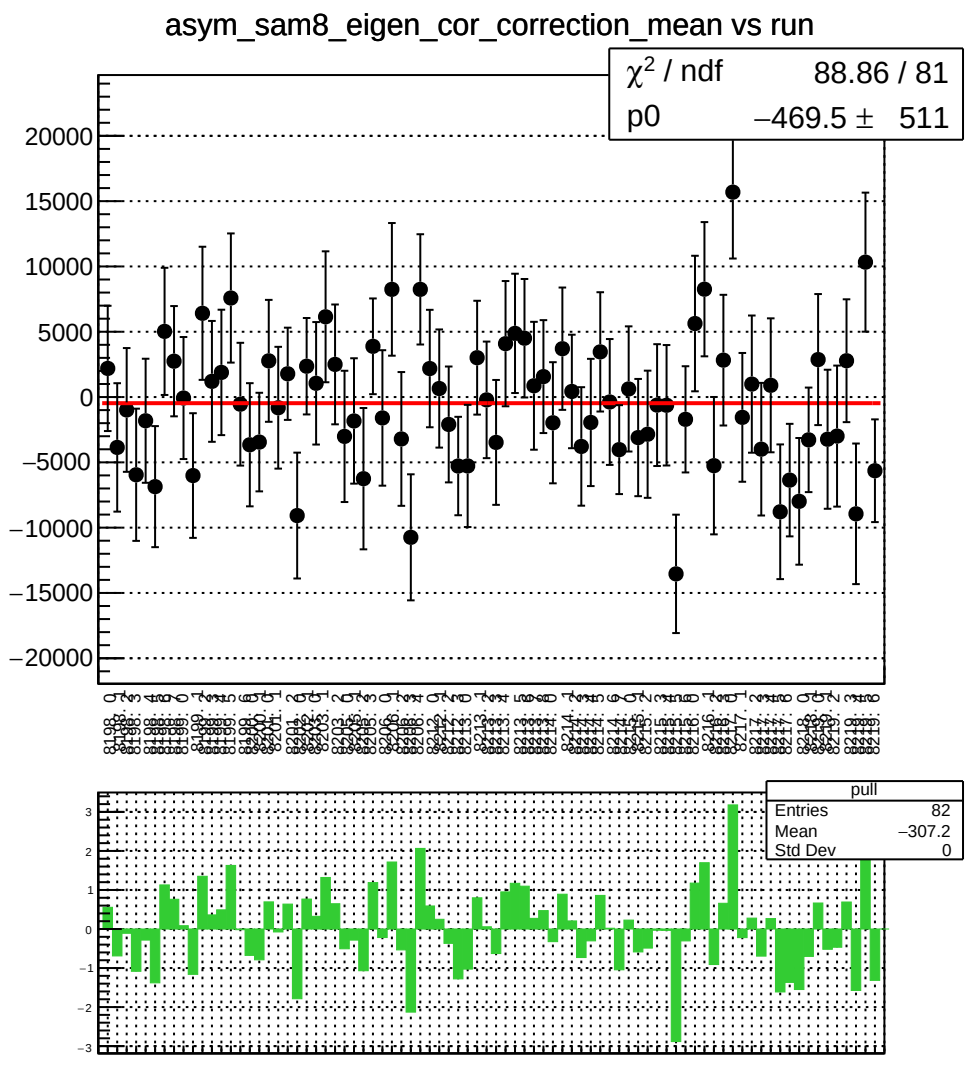

asym_sam8_cor_correction_mean vs run
χ² / ndf 88.86 / 81
p0 −469.5 ± 511
pull
Entries 82
Mean −307.2
Std Dev 0

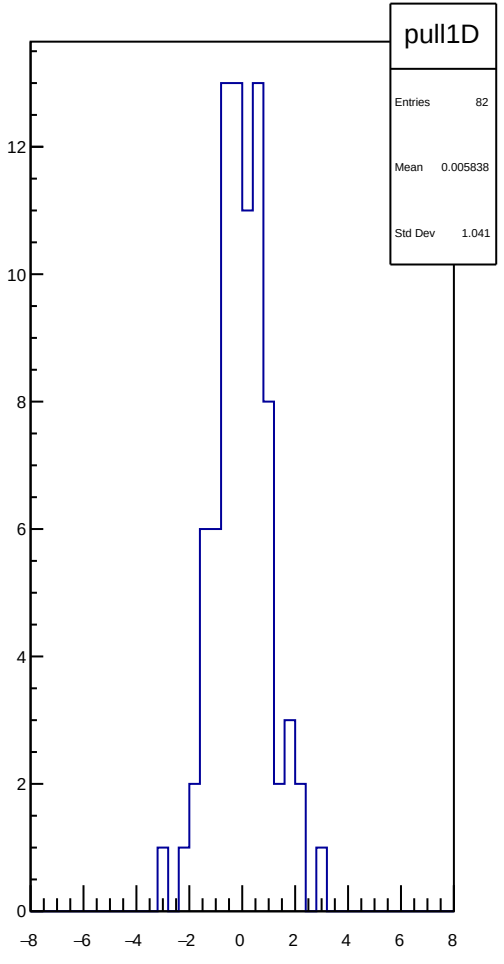

pull1D
Entries 82
Mean 0.005838
Std Dev 1.041

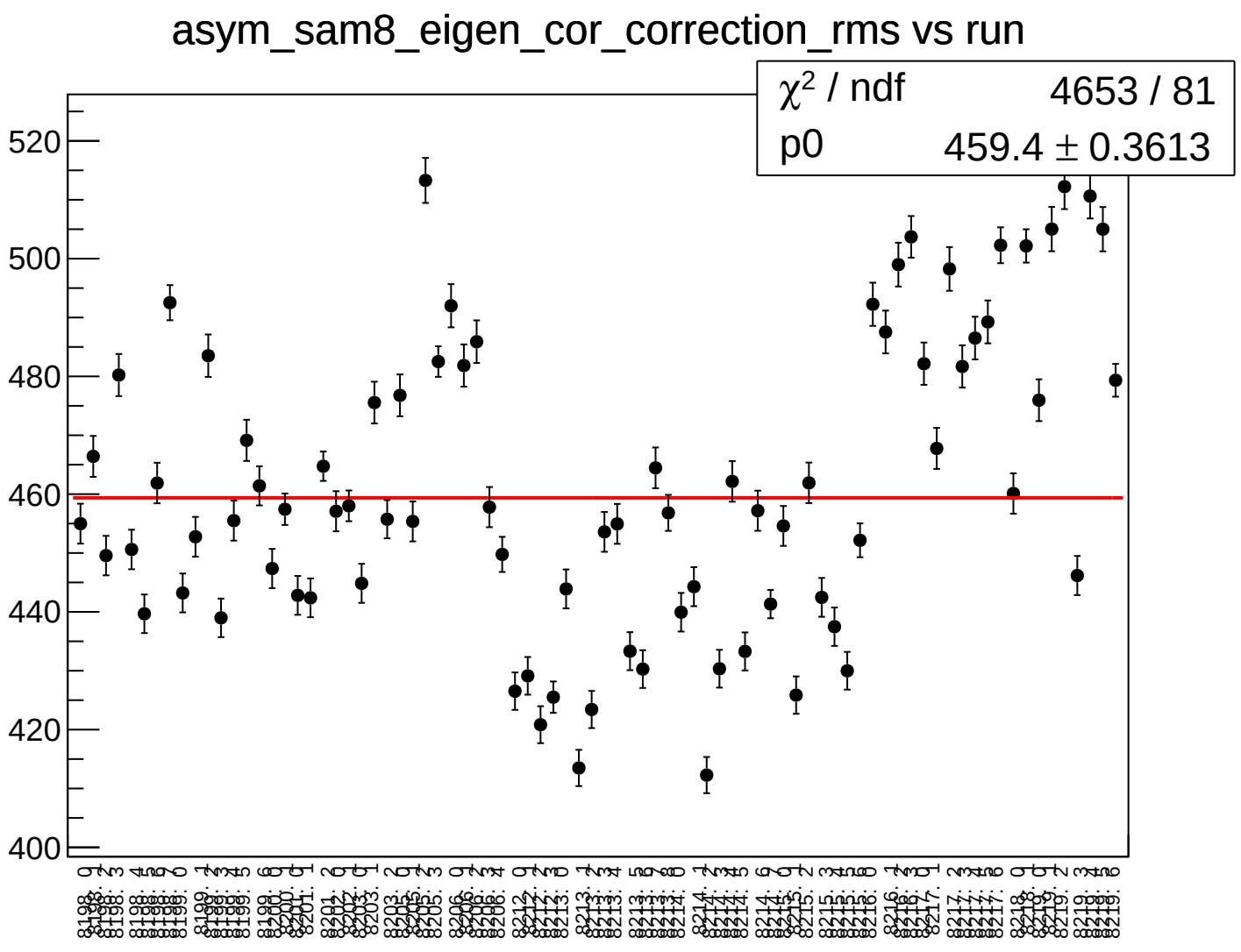

asym_sam8_cor_correction_rms vs run
χ² / ndf 4653 / 81
p0 459.4 ± 0.3613
520
500
480
460
440
420
400

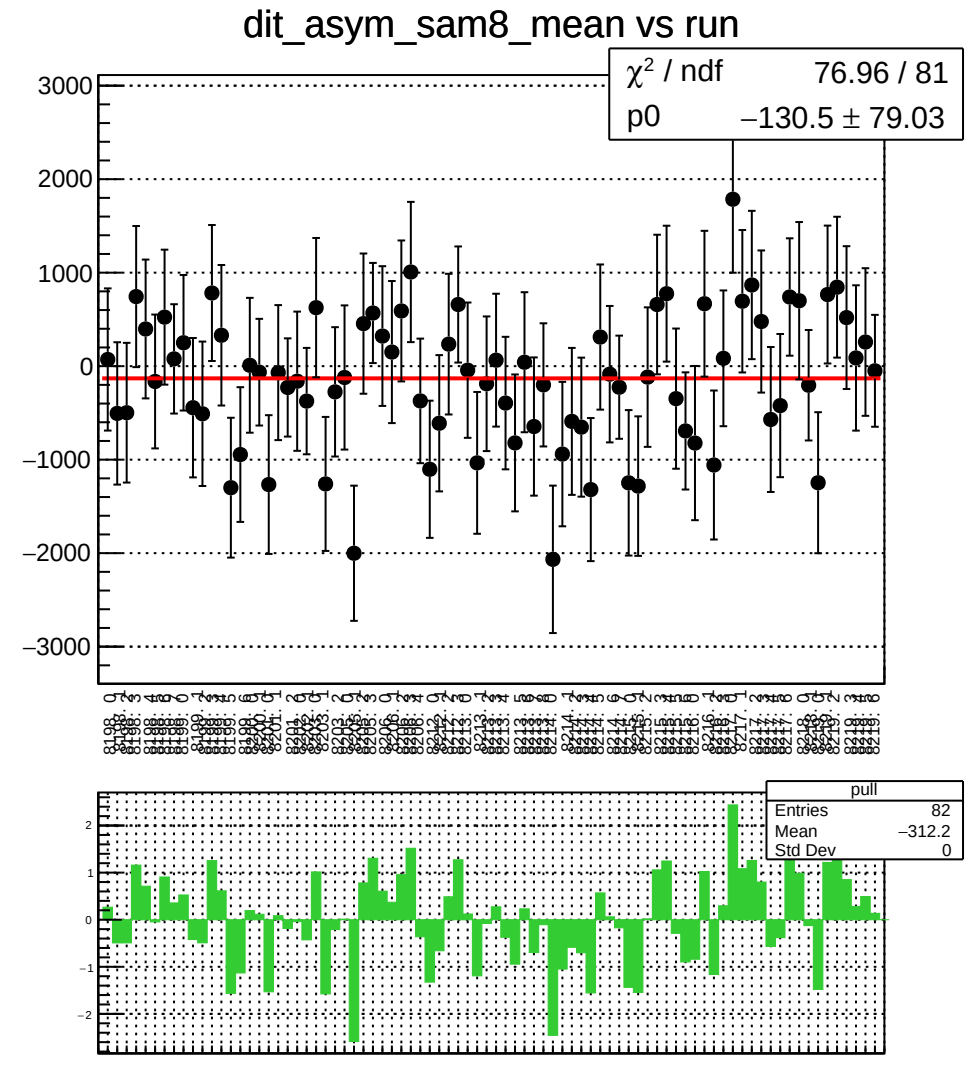

eigen_cor_asym_sam8_mean vs run
χ² / ndf 80.47 / 81
p0 −83.36 ± 70.89
pull
Entries 82
Mean −58.58
Std Dev 0
pull1D
Entries 82
Mean −0.01559
Std Dev 0.9905

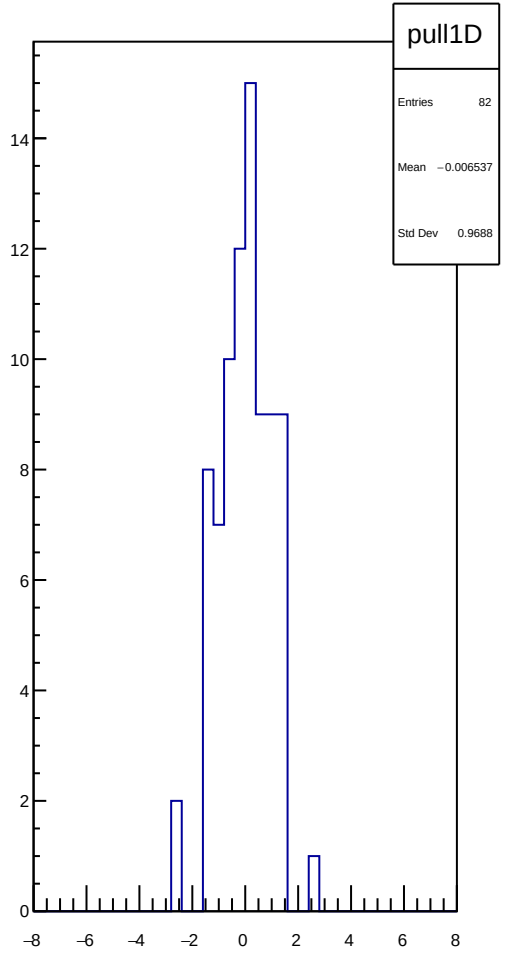

eigen_cor_asym_sam8_rms vs run
$\chi^2$ / ndf 1398 / 81
p0 63.8 ± 0.05013
72
70
68
66
64
62
60

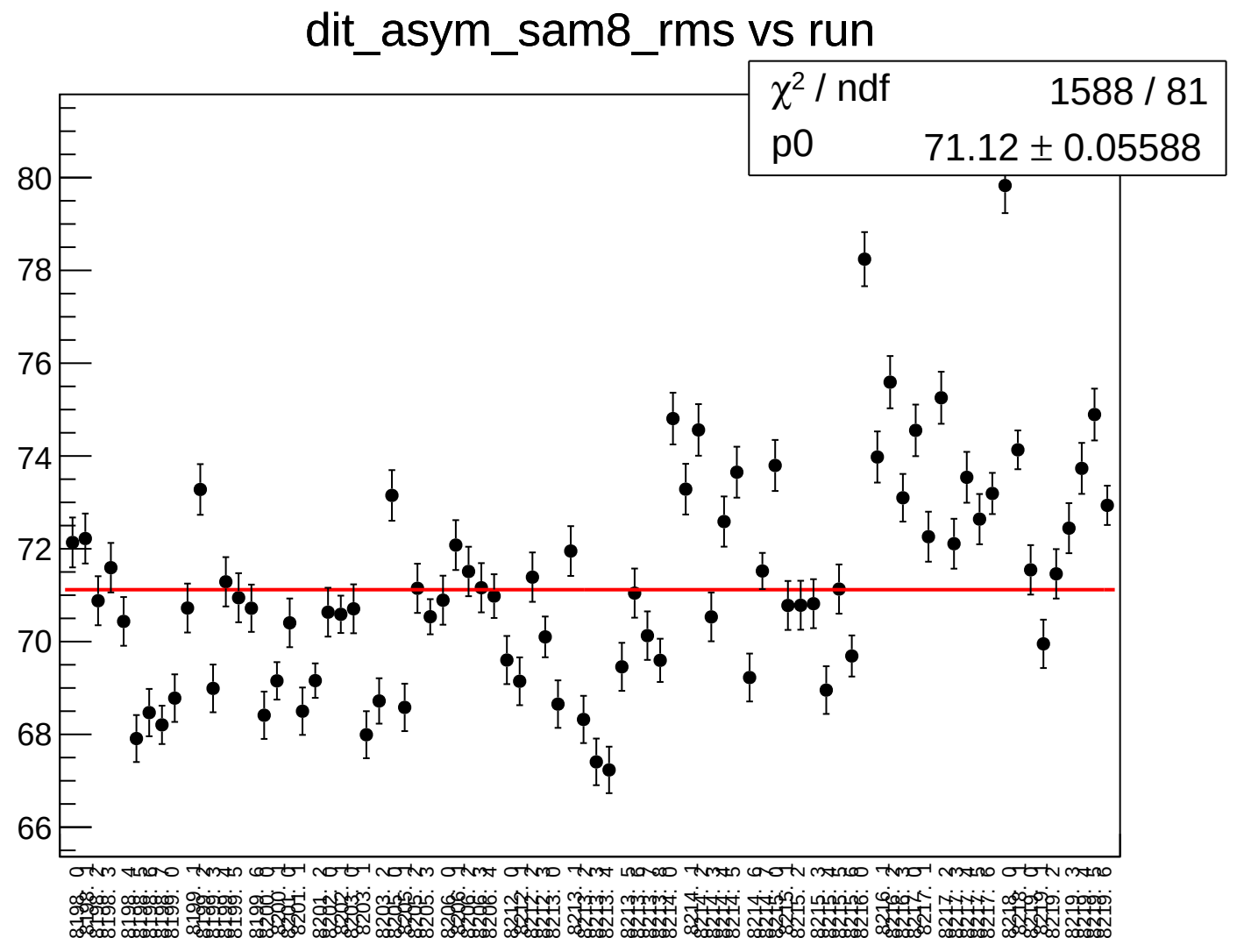

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 88.86 / 81
p0 −469.5 ± 511
pull
Entries 82
Mean −307.2
Std Dev 0

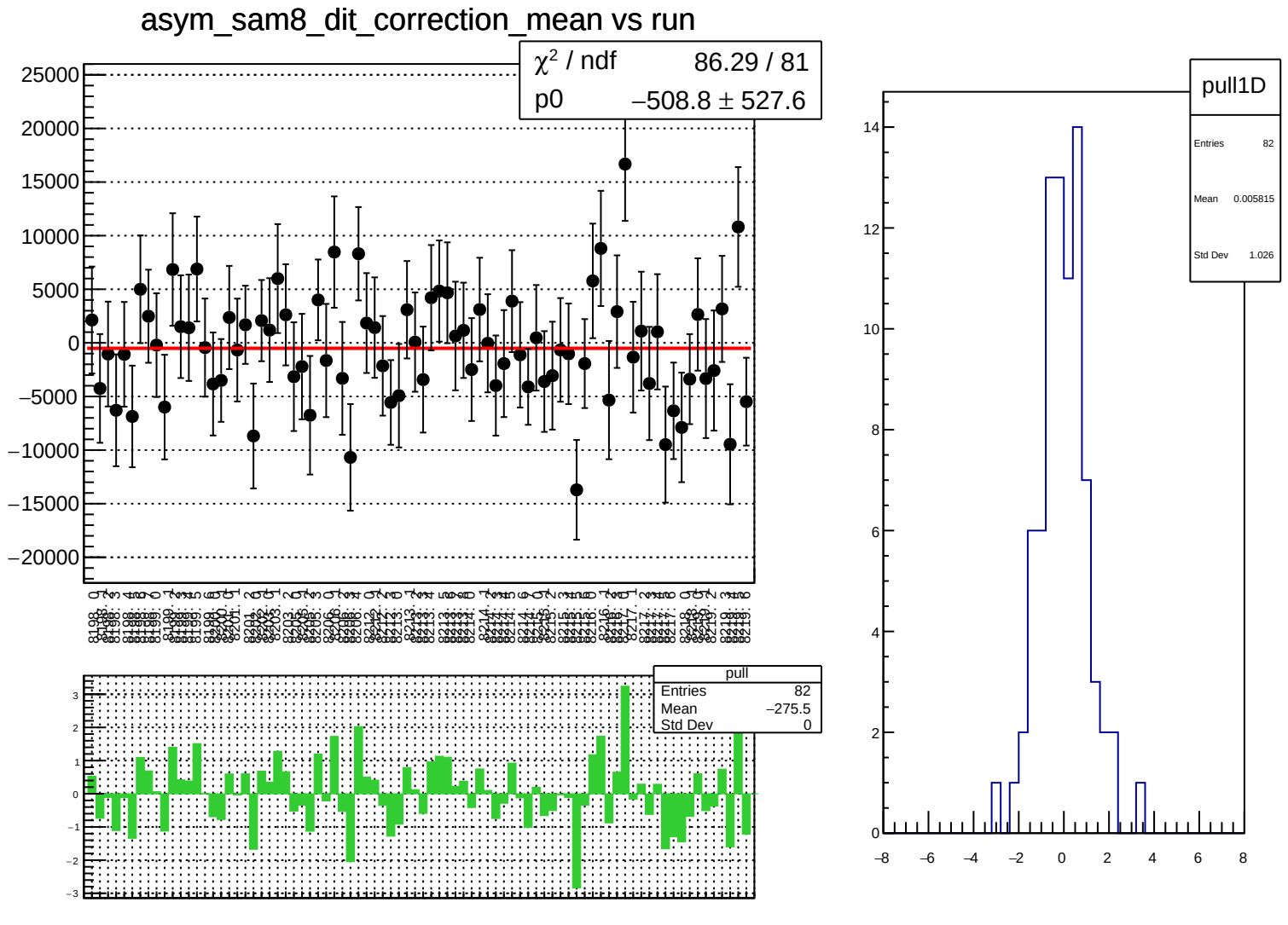

pull1D
Entries 82
Mean 0.005838
Std Dev 1.041

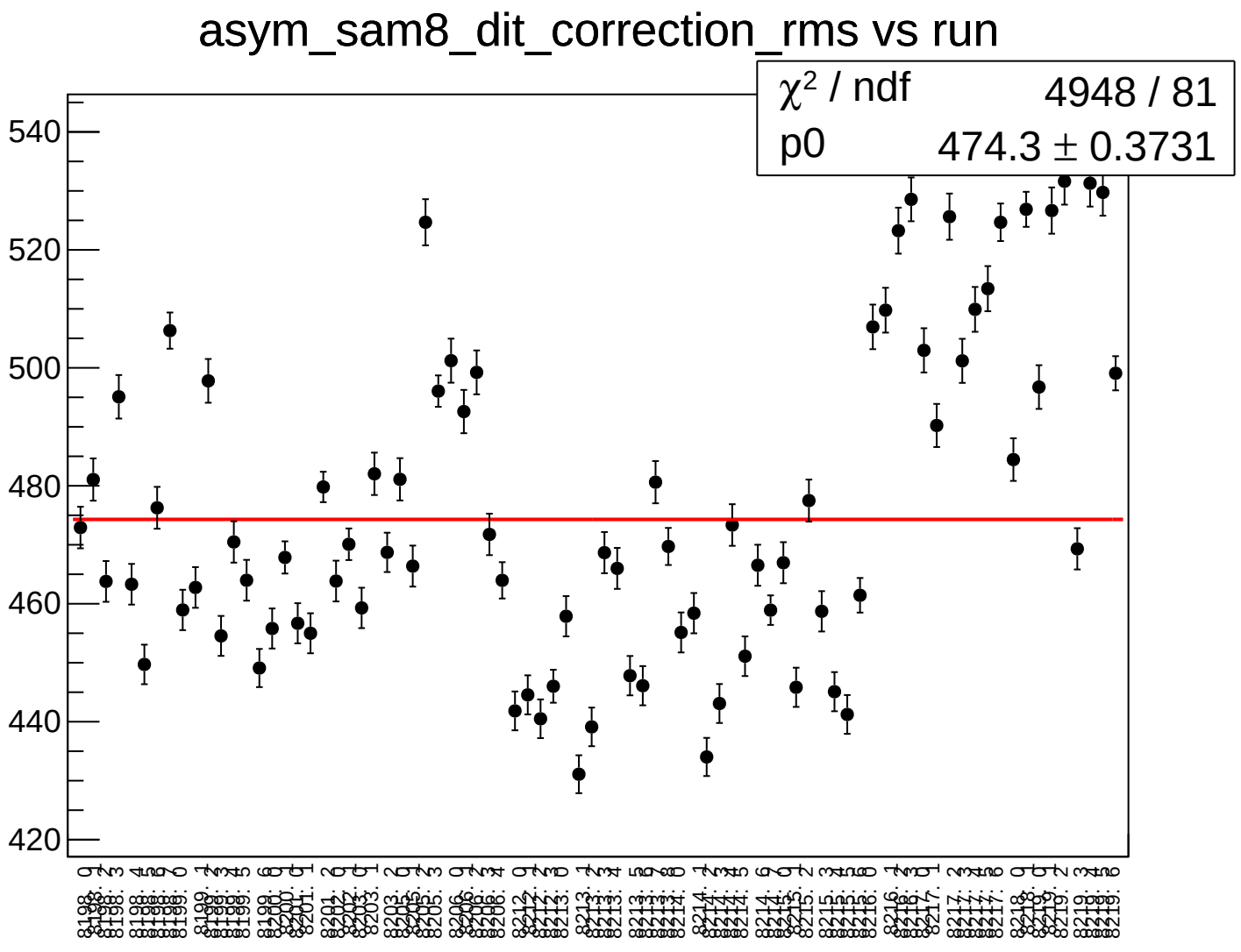

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 4653 / 81
p0 459.4 ± 0.3613
520
500
480
460
440
420
400

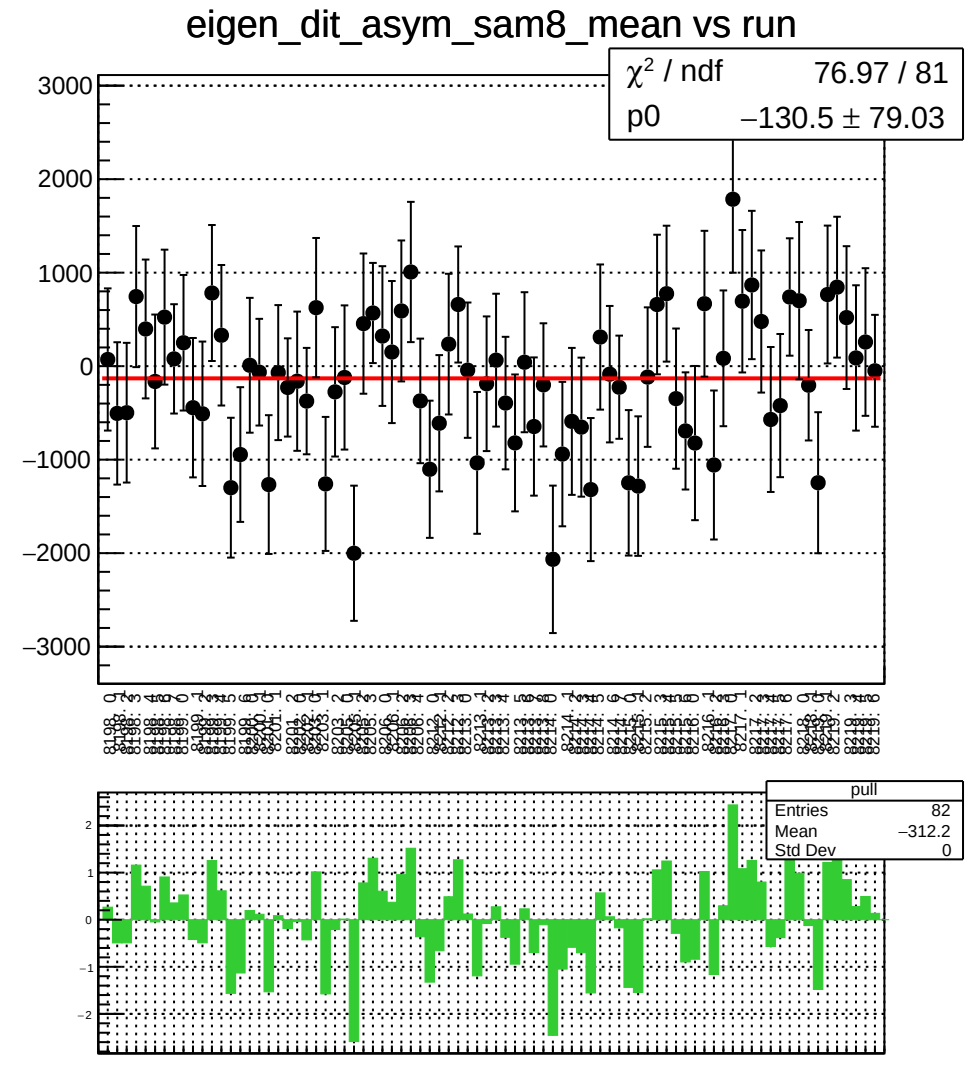

dit_asym_sam8_mean vs run
χ² / ndf 76.96 / 81
p0 −130.5 ± 79.03
pull
Entries 82
Mean −312.2
Std Dev 0

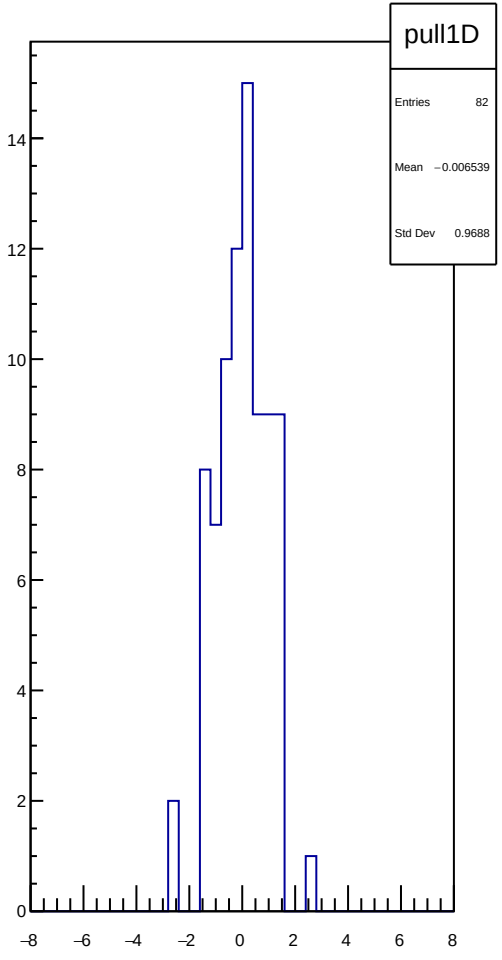

pull1D
Entries 82
Mean −0.006537
Std Dev 0.9688

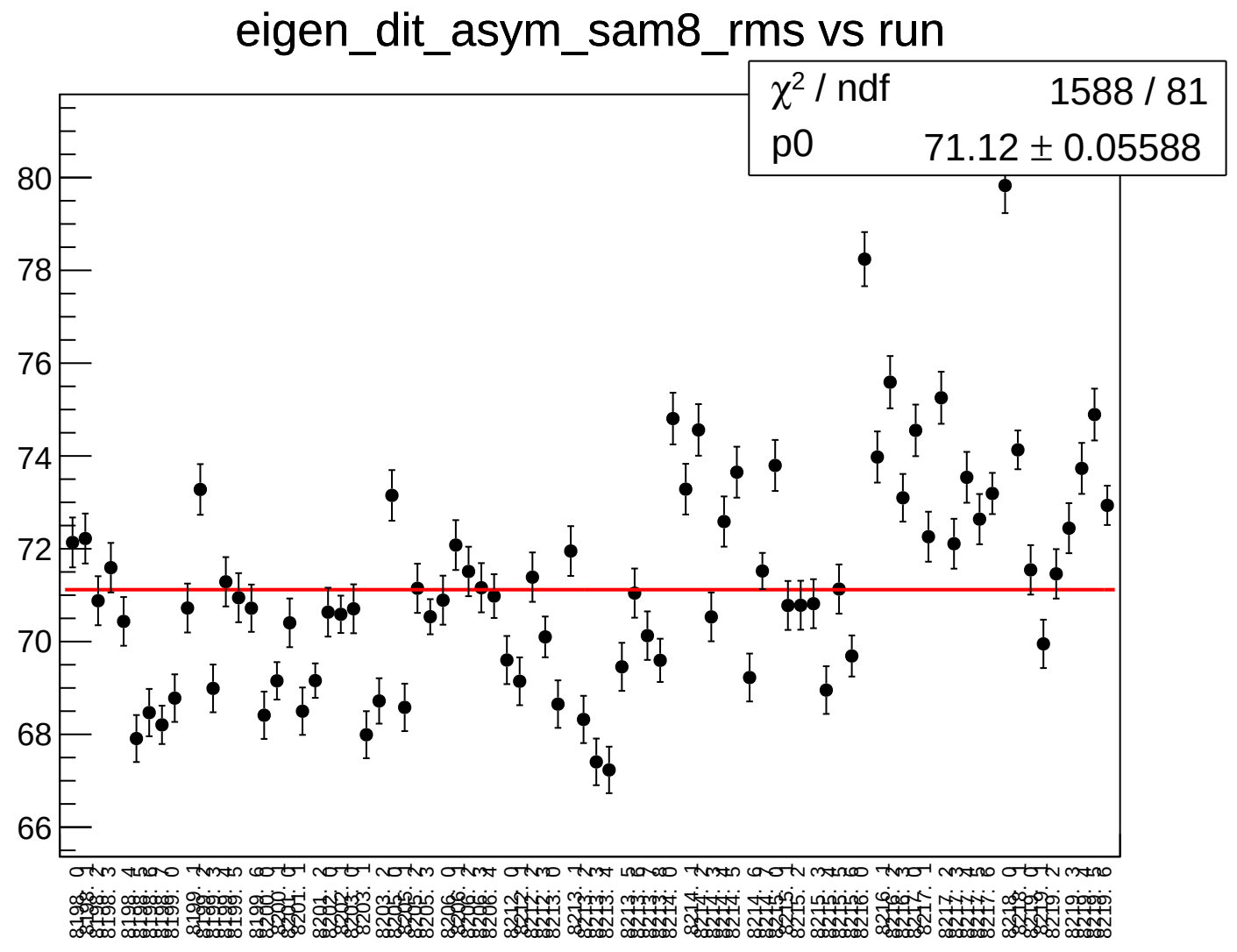

dit_asym_sam8_rms vs run
χ² / ndf 1588 / 81
p0 71.12 ± 0.05588
80
78
76
74
72
70
68
66

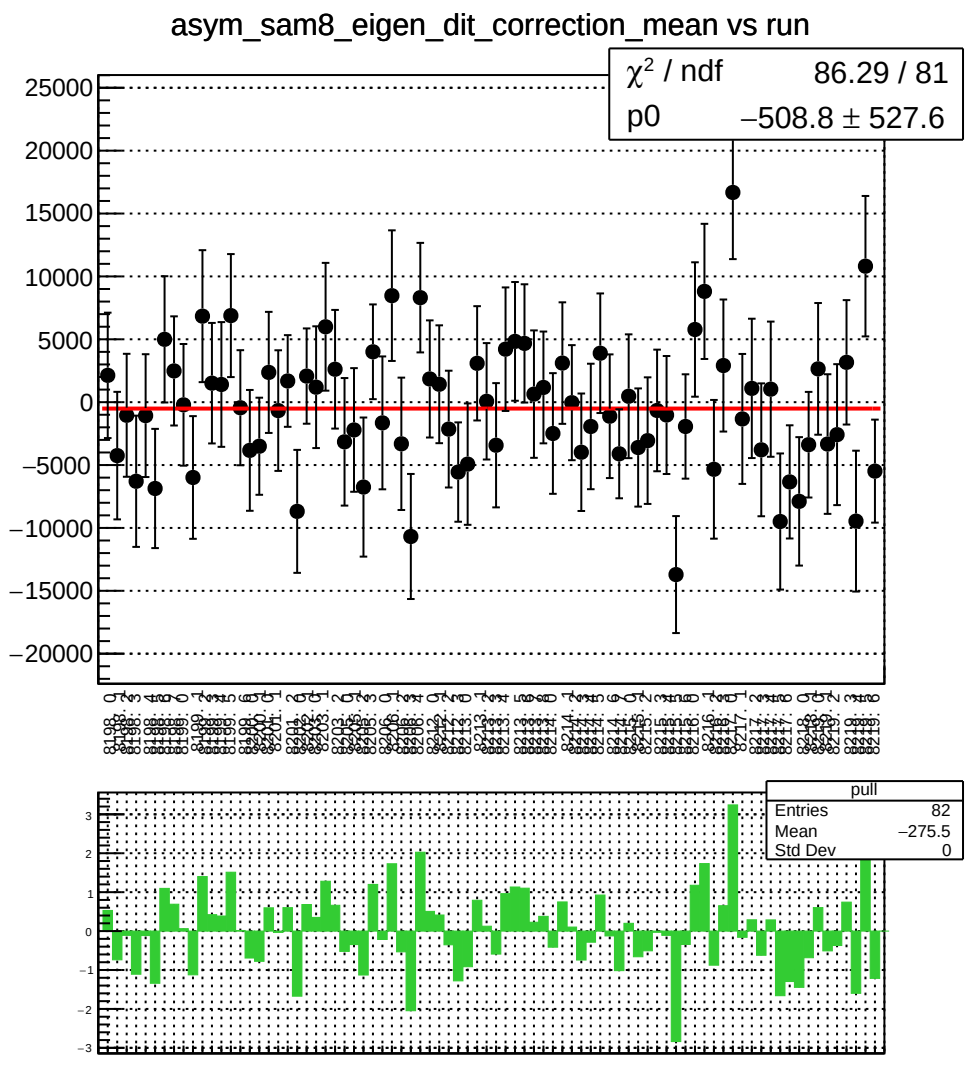

asym_sam8_dit_correction_mean vs run
χ² / ndf 86.29 / 81
p0 −508.8 ± 527.6
pull
Entries 82
Mean −275.5
Std Dev 0
pull1D
Entries 82
Mean 0.005815
Std Dev 1.026

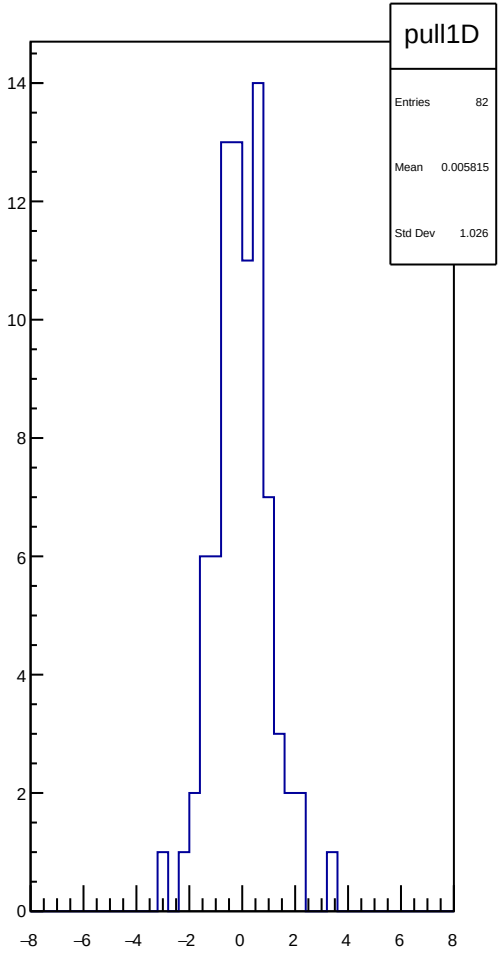

asym_sam8_dit_correction_rms vs run
χ² / ndf 4948 / 81
p0 474.3 ± 0.3731
540
520
500
480
460
440
420

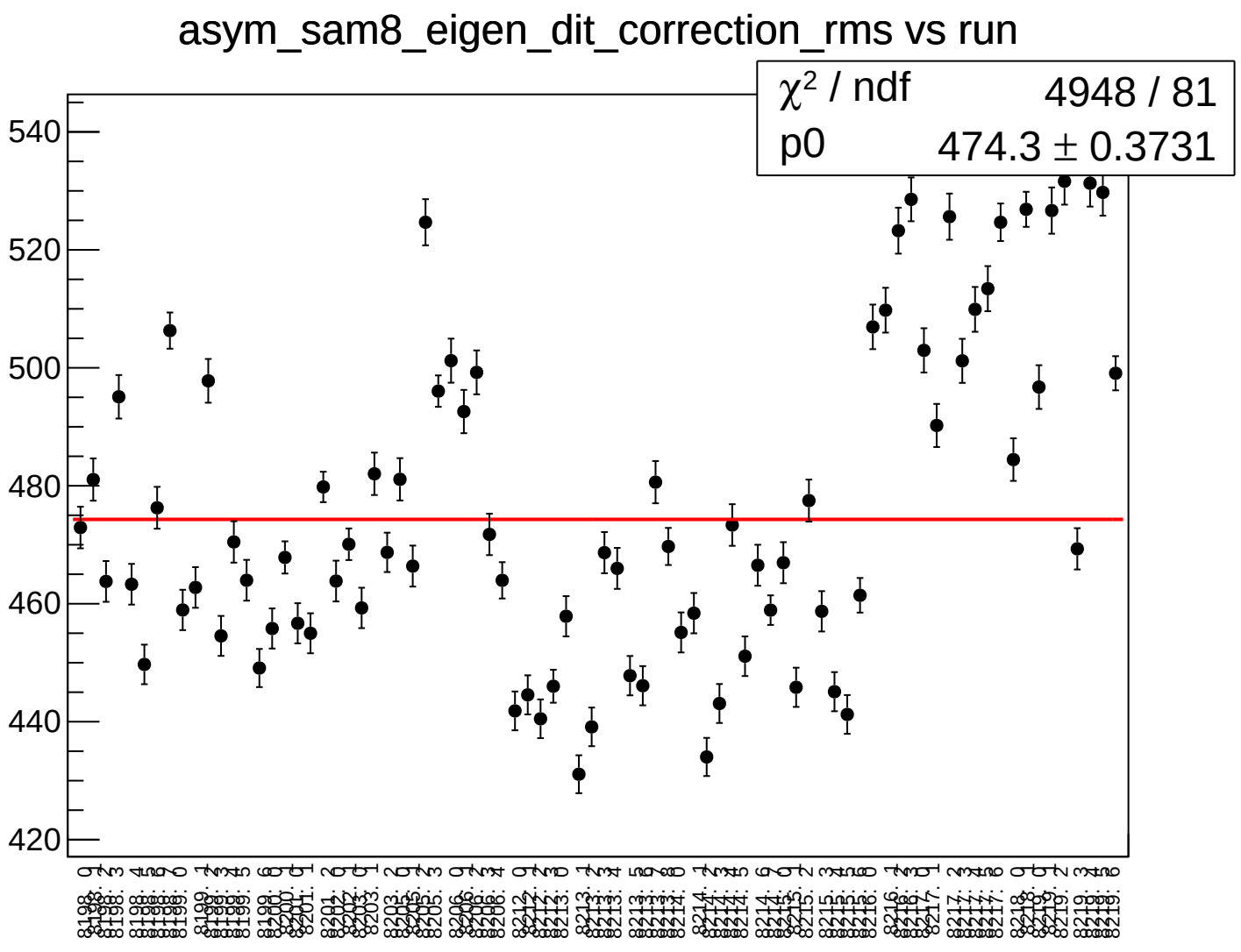

eigen_dit_asym_sam8_mean vs run
χ² / ndf 76.97 / 81
p0 −130.5 ± 79.03
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean −312.2
Std Dev 0
2
1
0
−1
−2

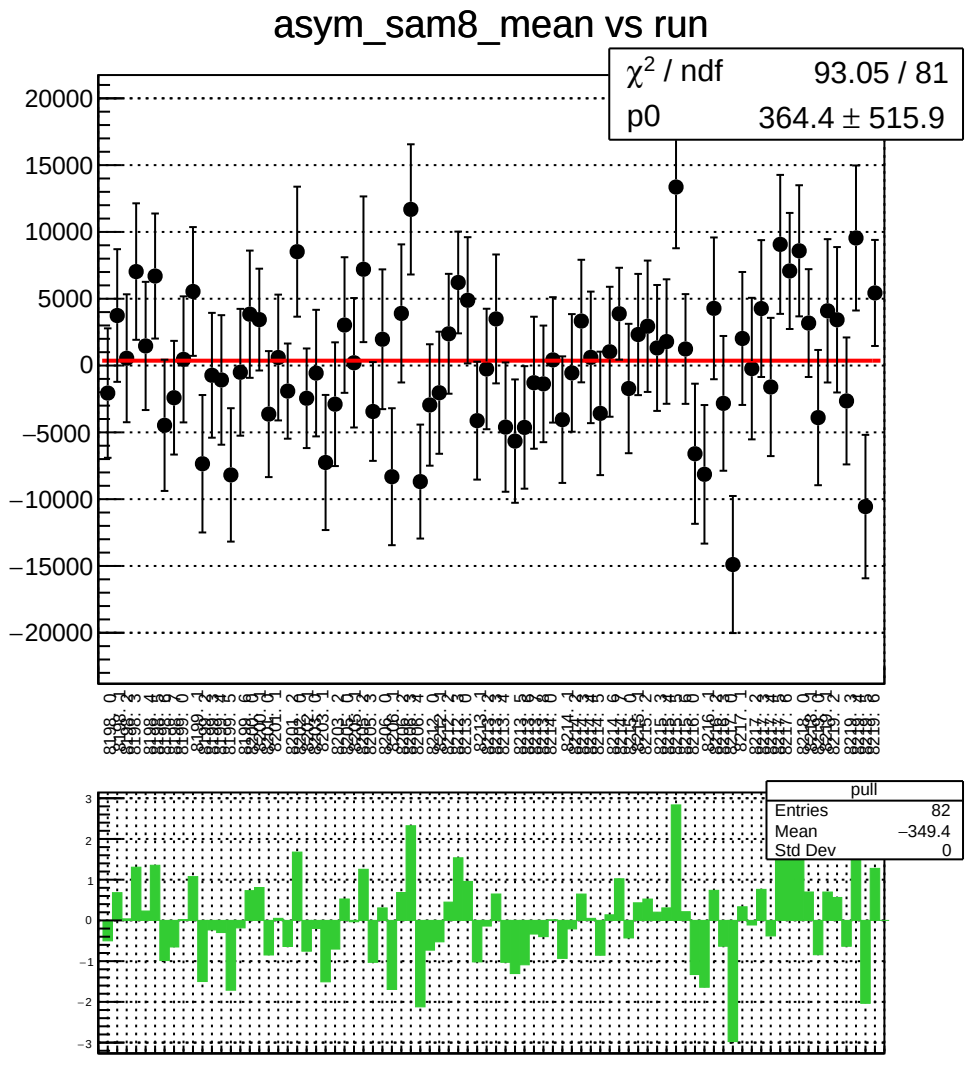

pull1D
Entries 82
Mean −0.006539
Std Dev 0.9688
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

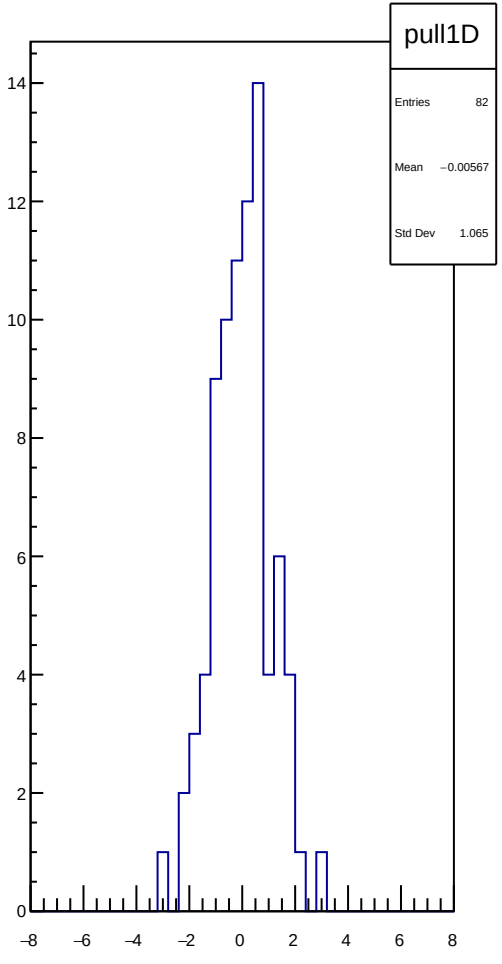

eigen_dit_asym_sam8_rms vs run
$\chi^2$ / ndf 1588 / 81
p0 71.12 ± 0.05588
80
78
76
74
72
70
68
66

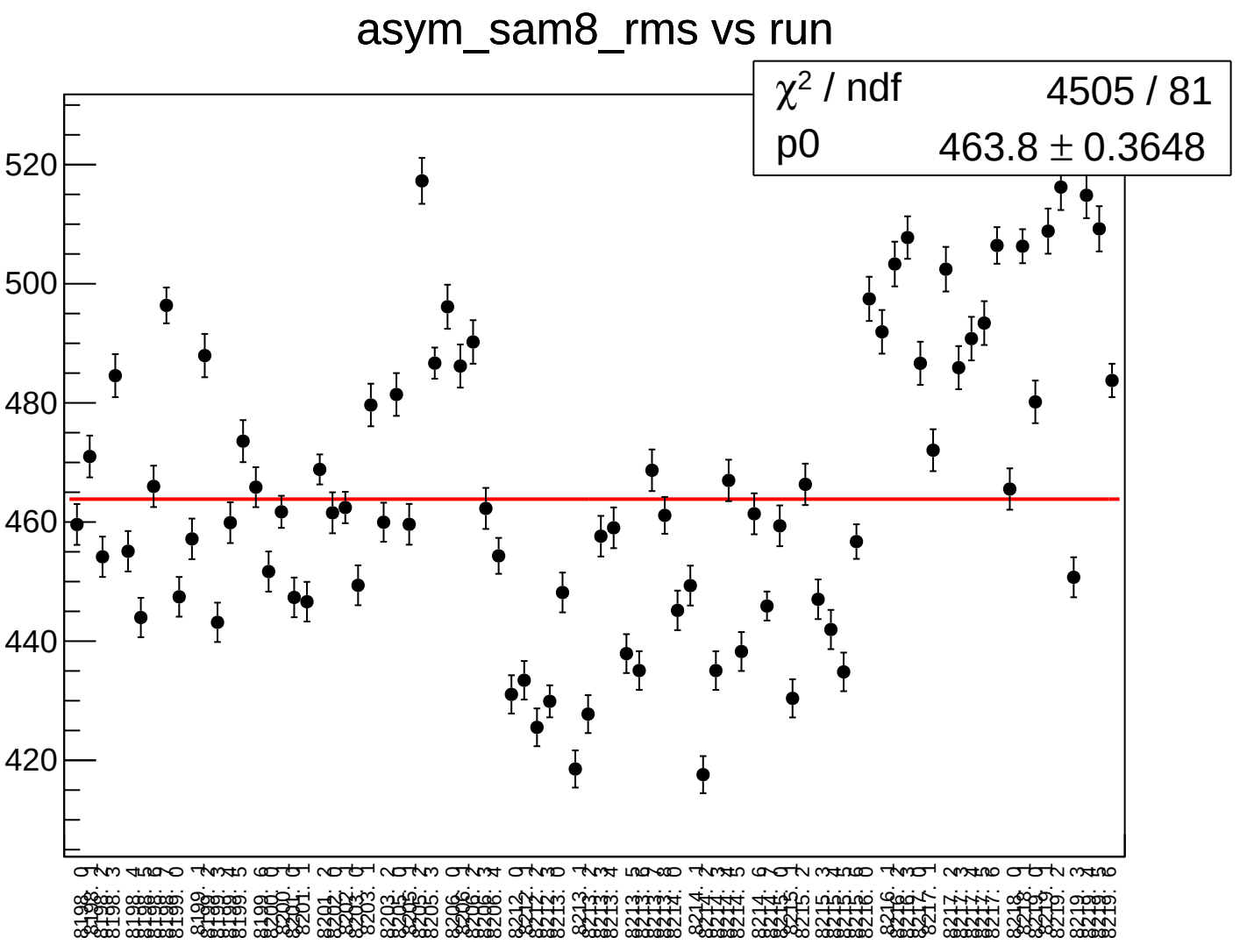

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 86.29 / 81
p0 −508.8 ± 527.6
pull
Entries 82
Mean −275.5
Std Dev 0

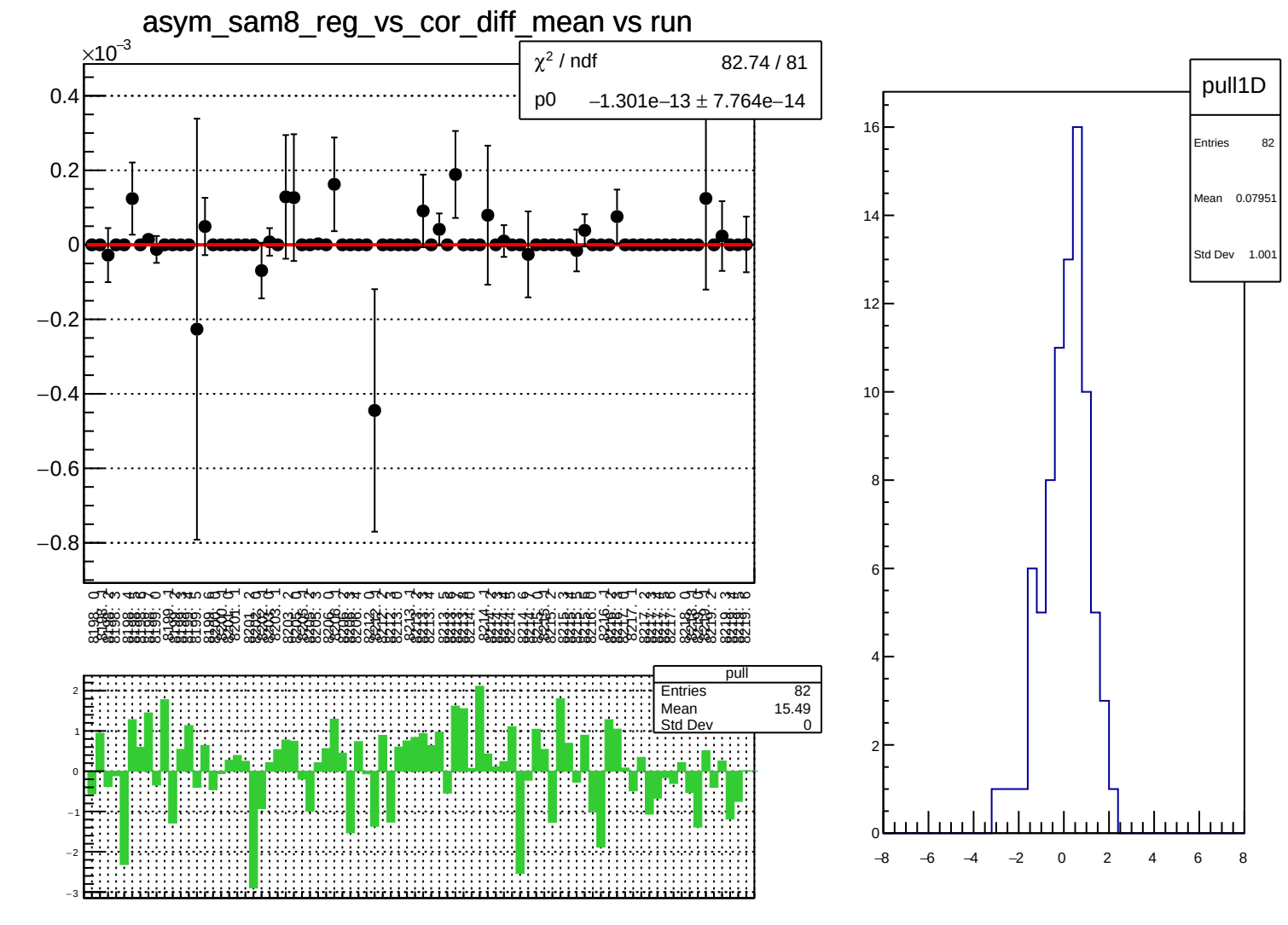

pull1D
Entries 82
Mean 0.005815
Std Dev 1.026

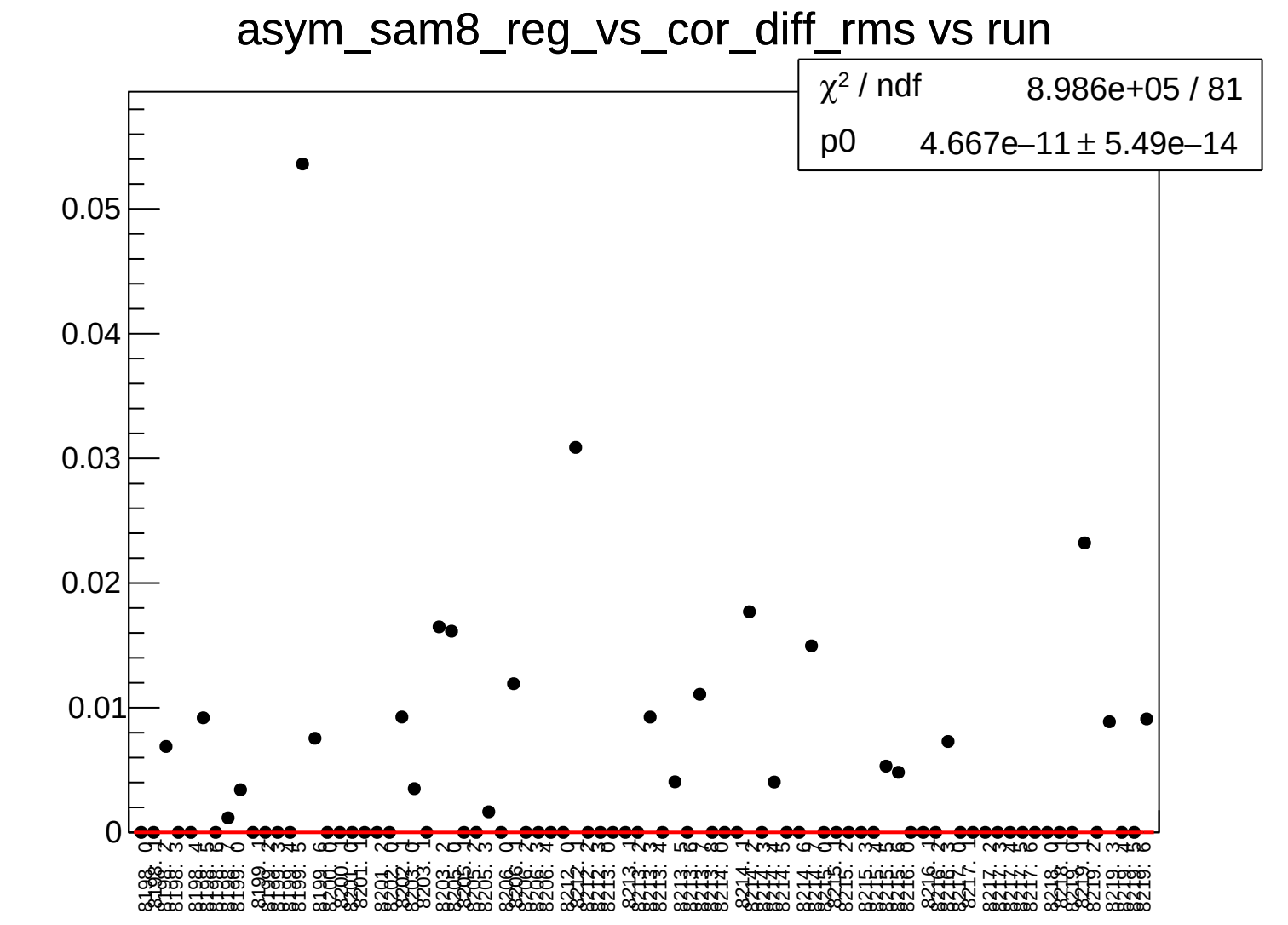

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 4948 / 81
p0 474.3 ± 0.3731
540
520
500
480
460
440
420

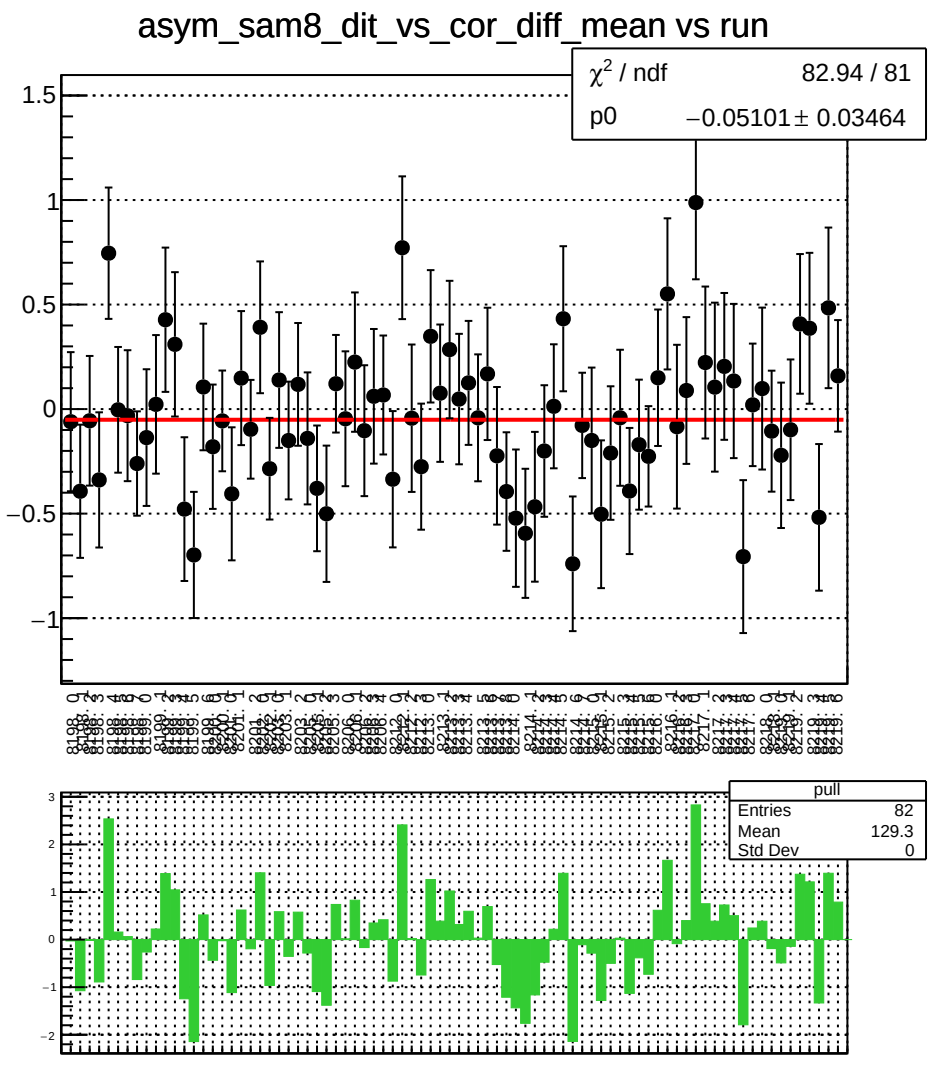

asym_sam8_mean vs run
χ² / ndf 93.05 / 81
p0 364.4 ± 515.9
pull
Entries 82
Mean −349.4
Std Dev 0

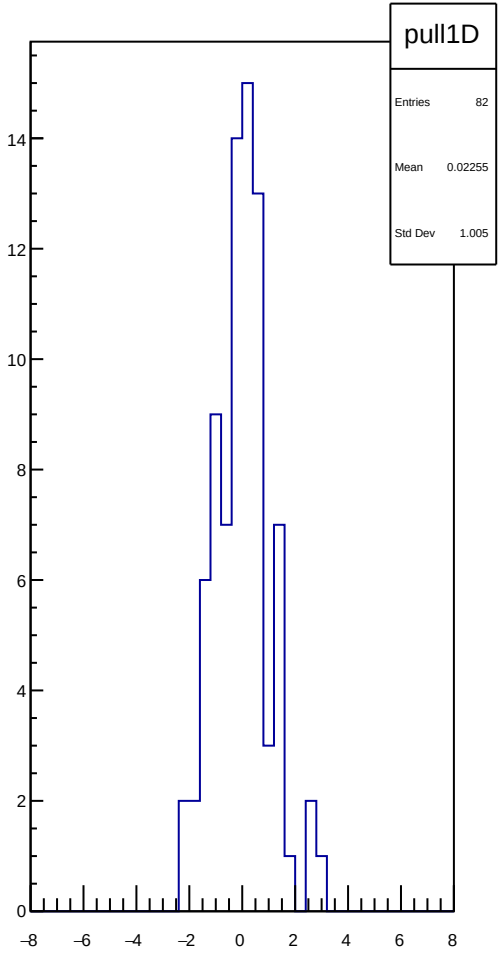

pull1D
Entries 82
Mean −0.00567
Std Dev 1.065

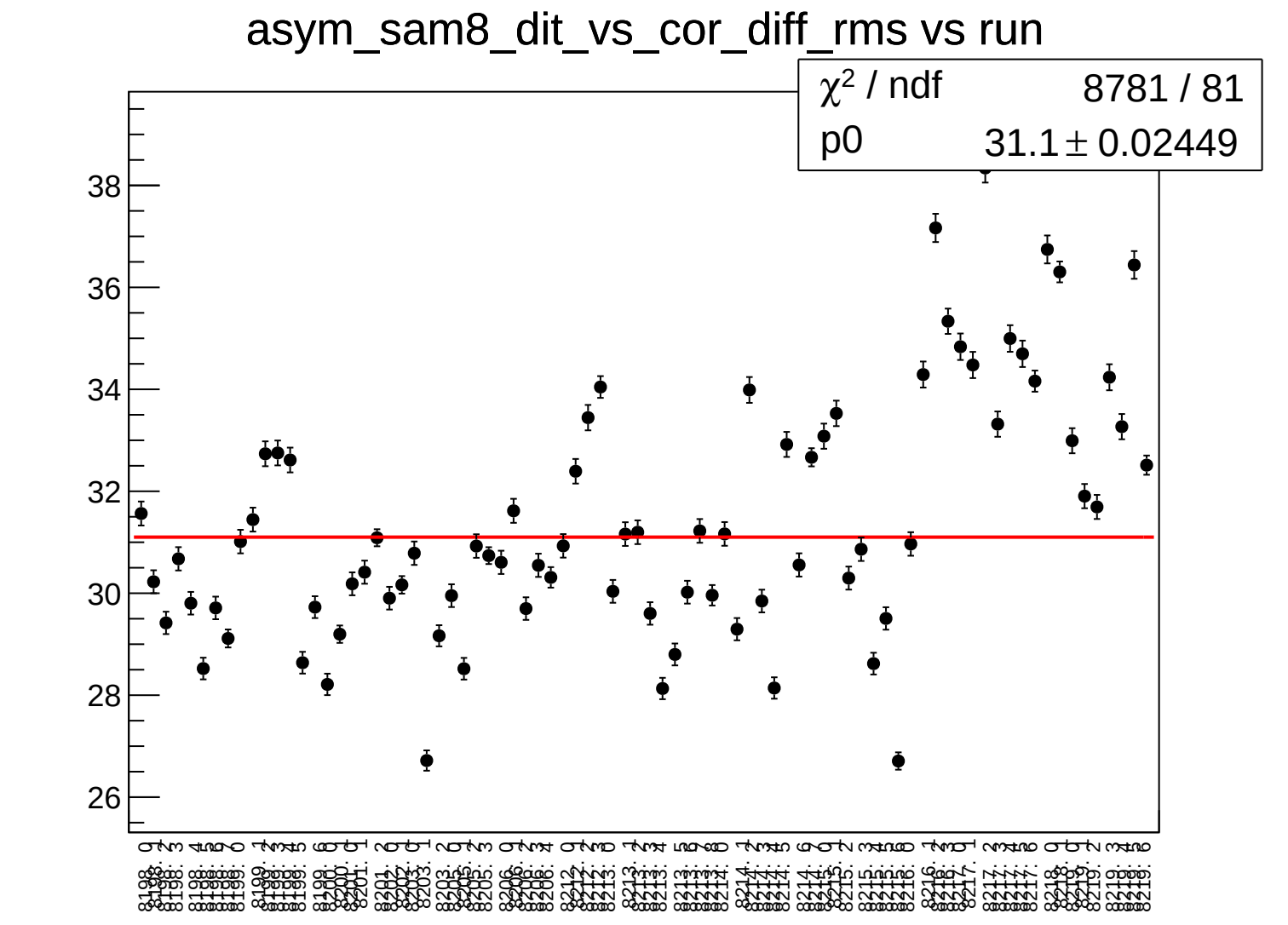

asym_sam8_rms vs run
χ² / ndf 4505 / 81
p0 463.8 ± 0.3648
520
500
480
460
440
420

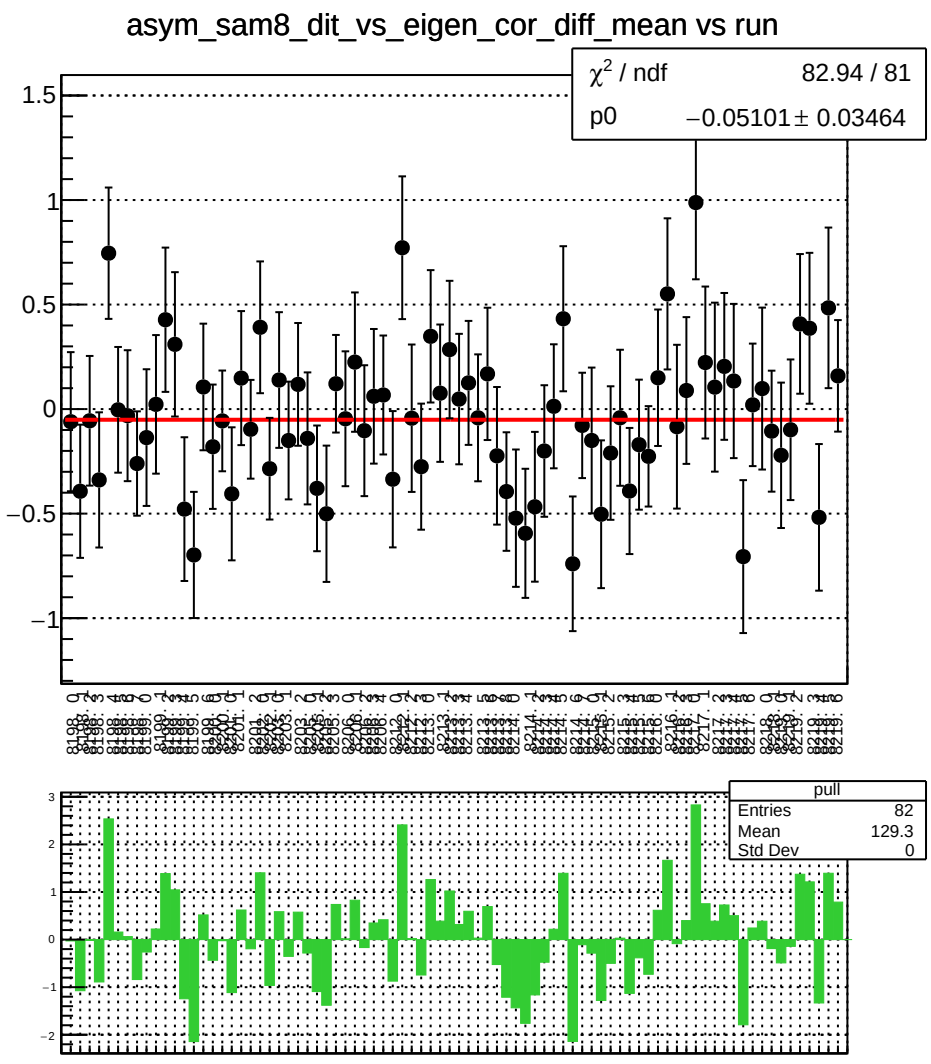

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 82.74 / 81
p0 −1.301e−13 ± 7.764e−14
pull
Entries 82
Mean 15.49
Std Dev 0
pull1D
Entries 82
Mean 0.07951
Std Dev 1.001

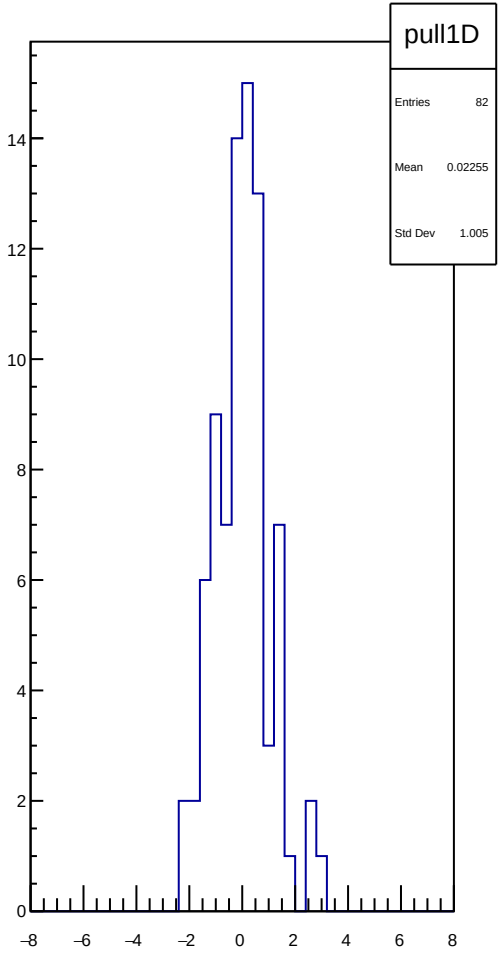

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 8.986e+05 / 81
p0 4.667e−11 ± 5.49e−14
0.05
0.04
0.03
0.02
0.01
0

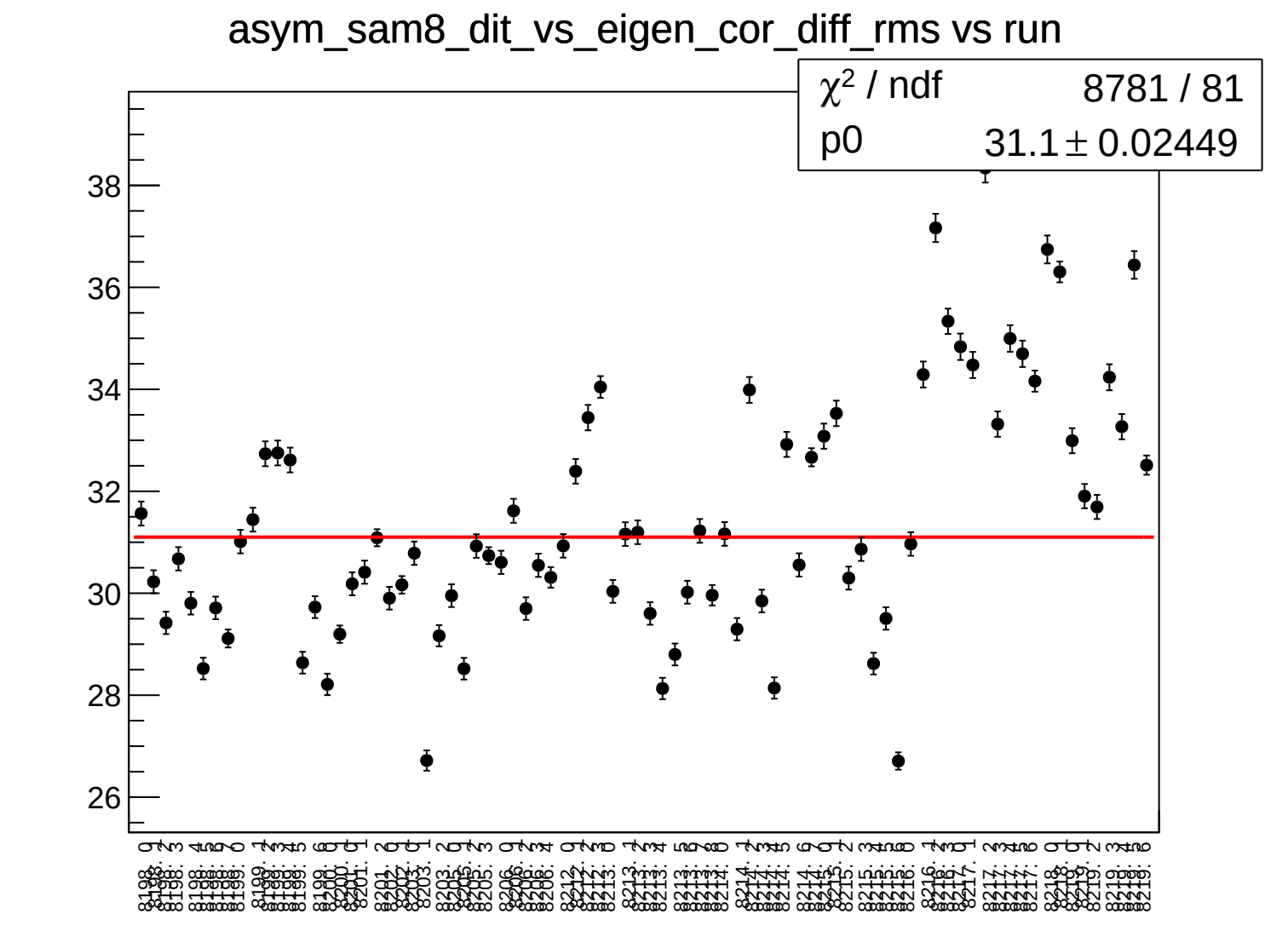

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 82.94 / 81
p0 −0.05101 ± 0.03464
pull
Entries 82
Mean 129.3
Std Dev 0

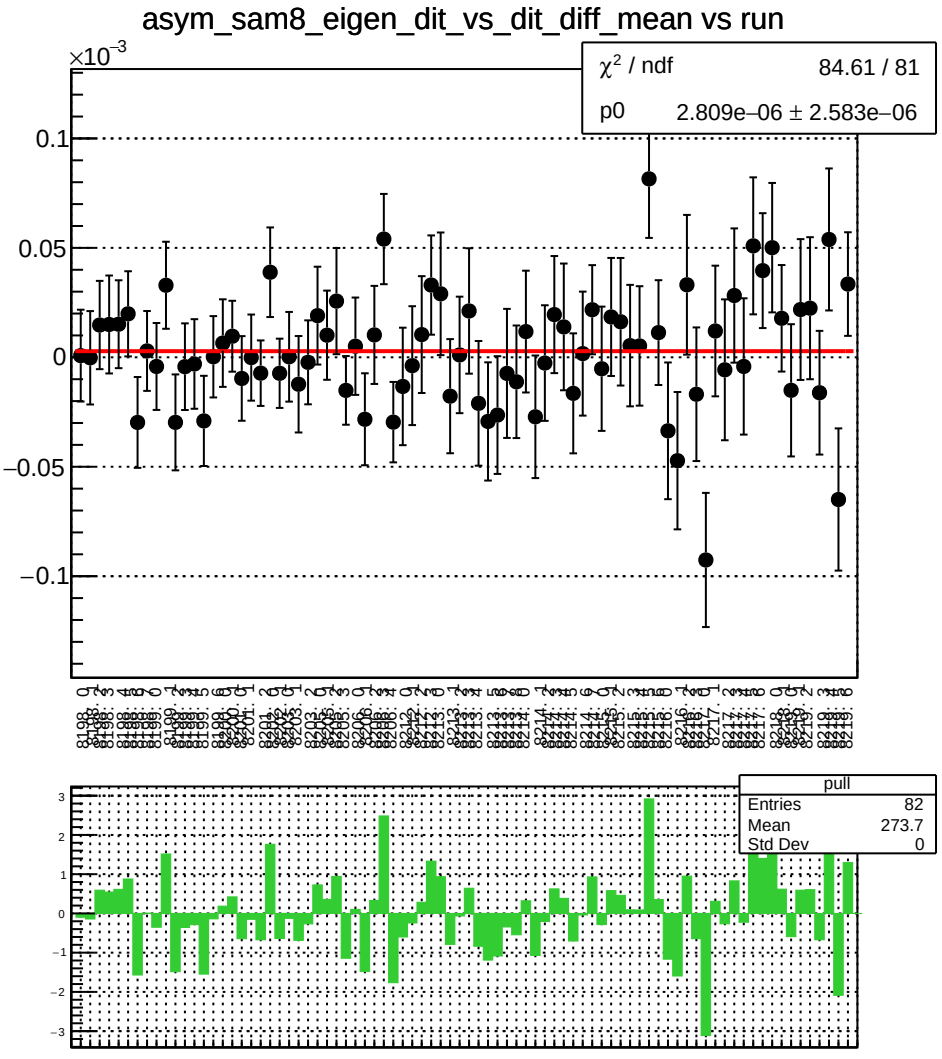

pull1D
Entries 82
Mean 0.02255
Std Dev 1.005

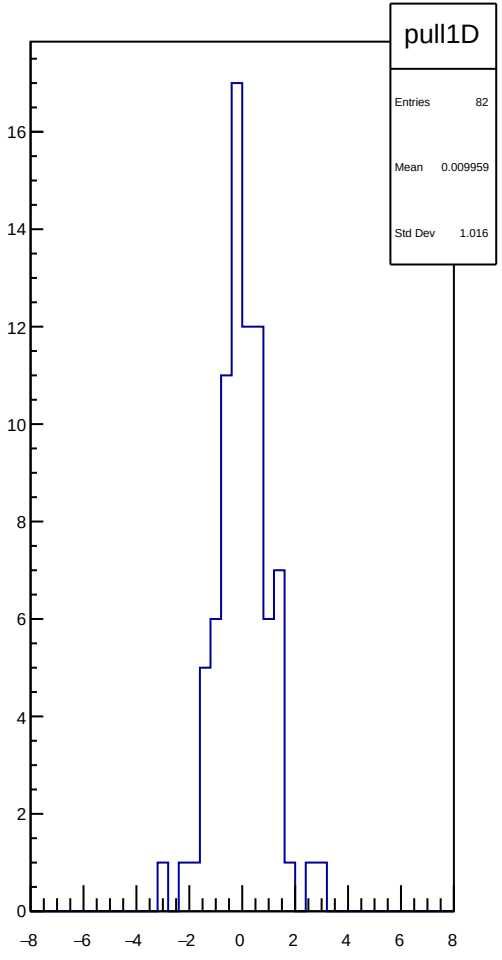

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 8781 / 81
p0 31.1 ± 0.02449
38
36
34
32
30
28
26

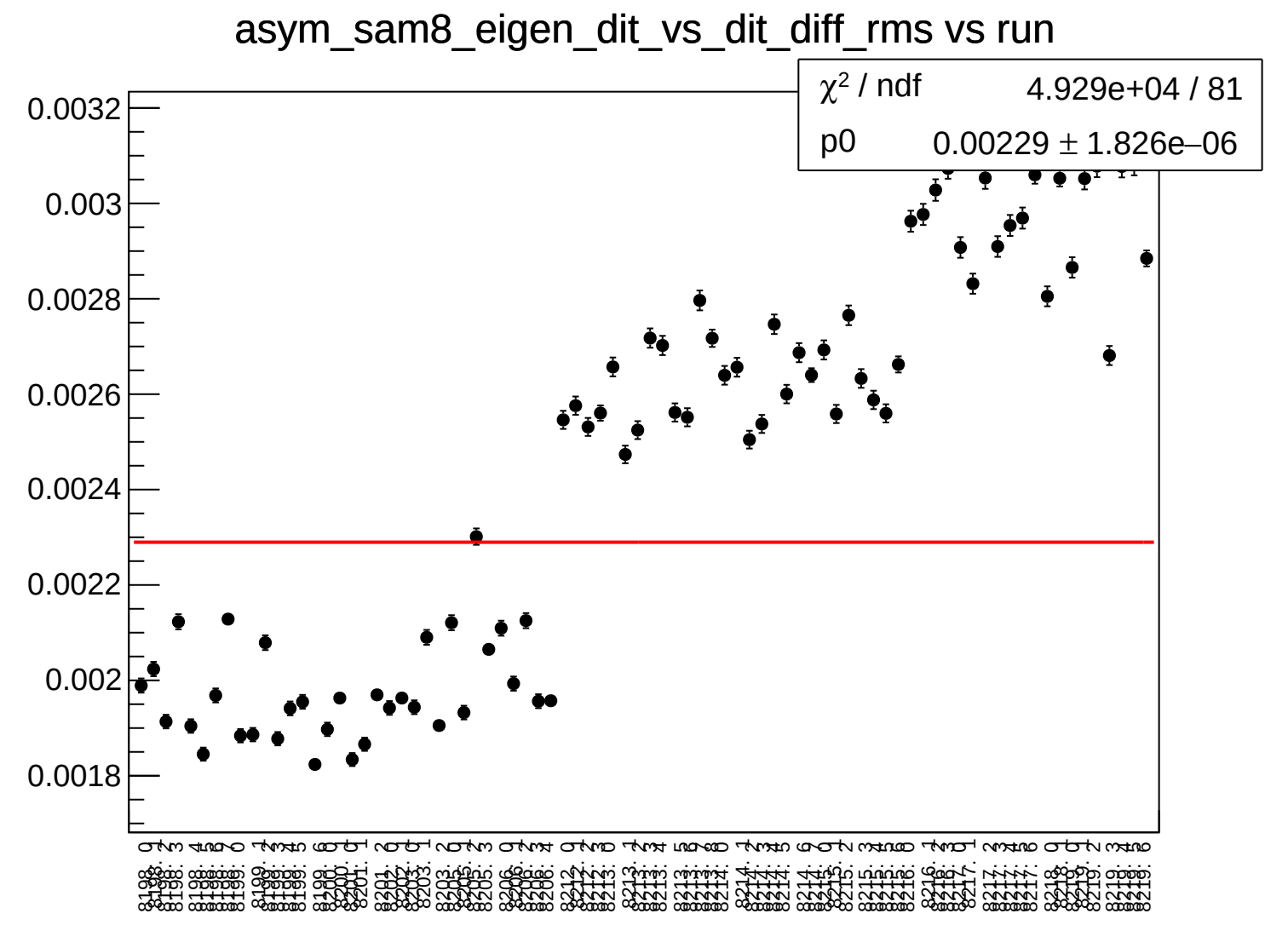

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.94 / 81
p0 −0.05101 ± 0.03464
pull
Entries 82
Mean 129.3
Std Dev 0

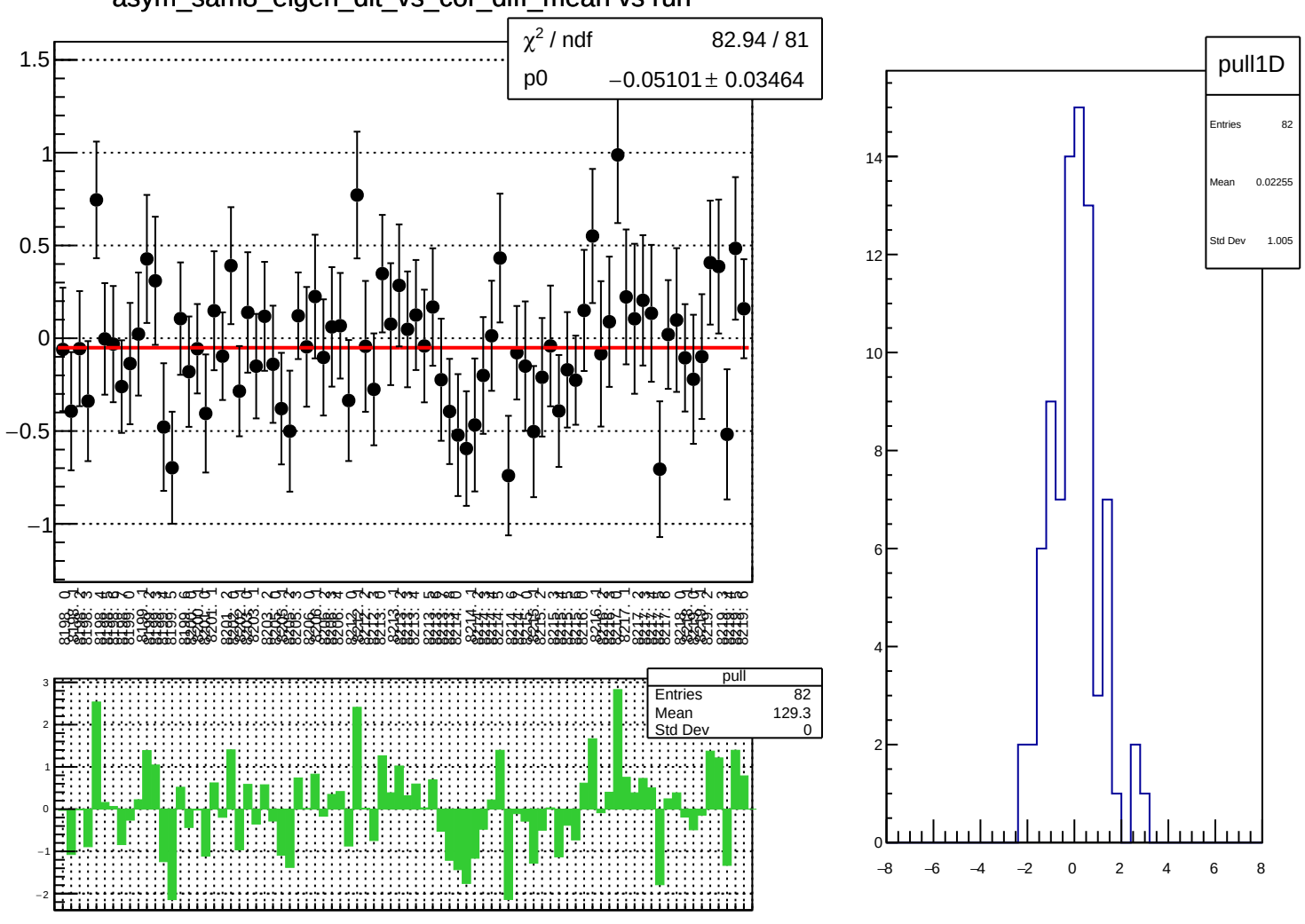

pull1D
Entries 82
Mean 0.02255
Std Dev 1.005

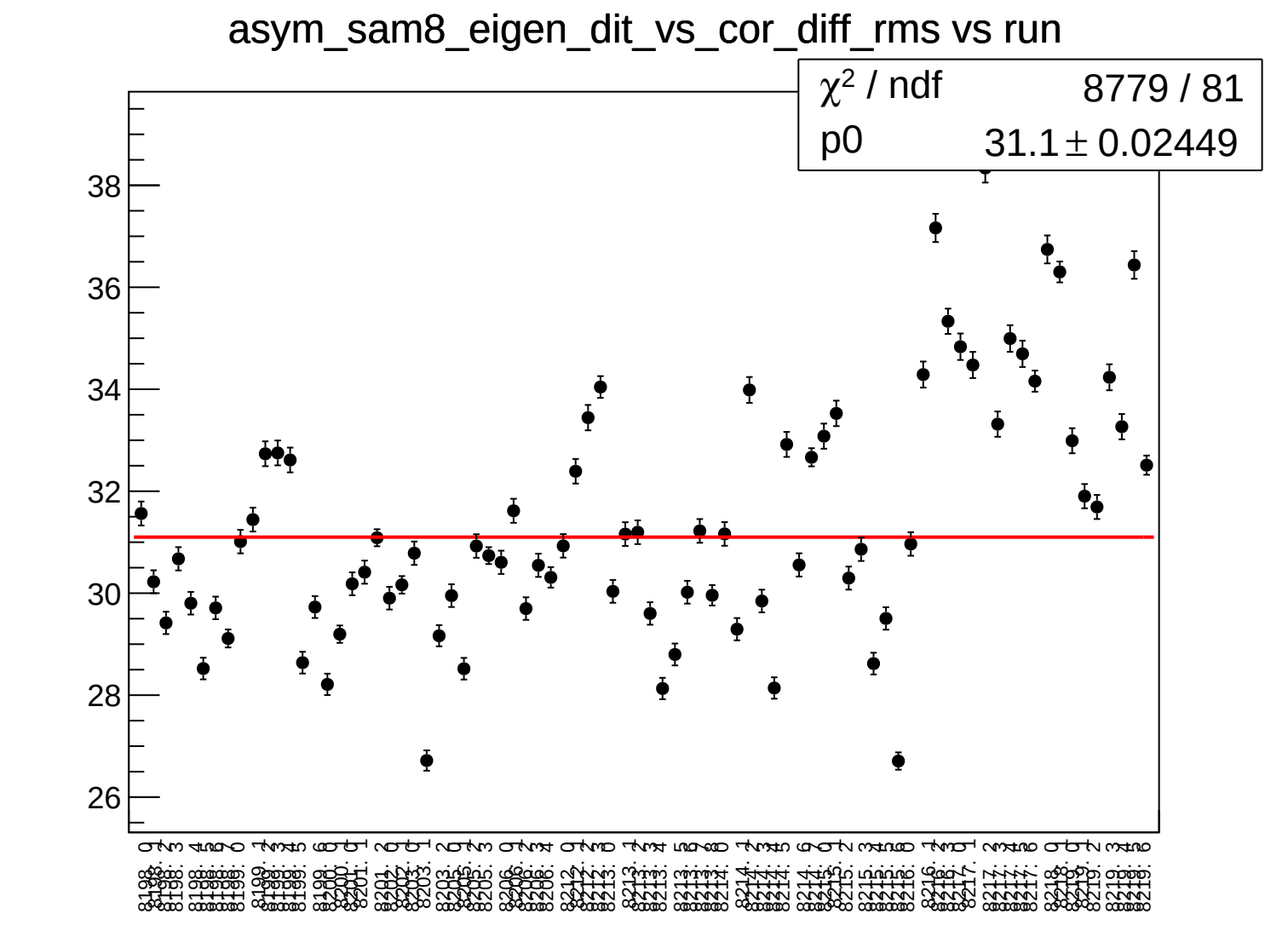

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8781 / 81
p0 31.1 ± 0.02449
38
36
34
32
30
28
26

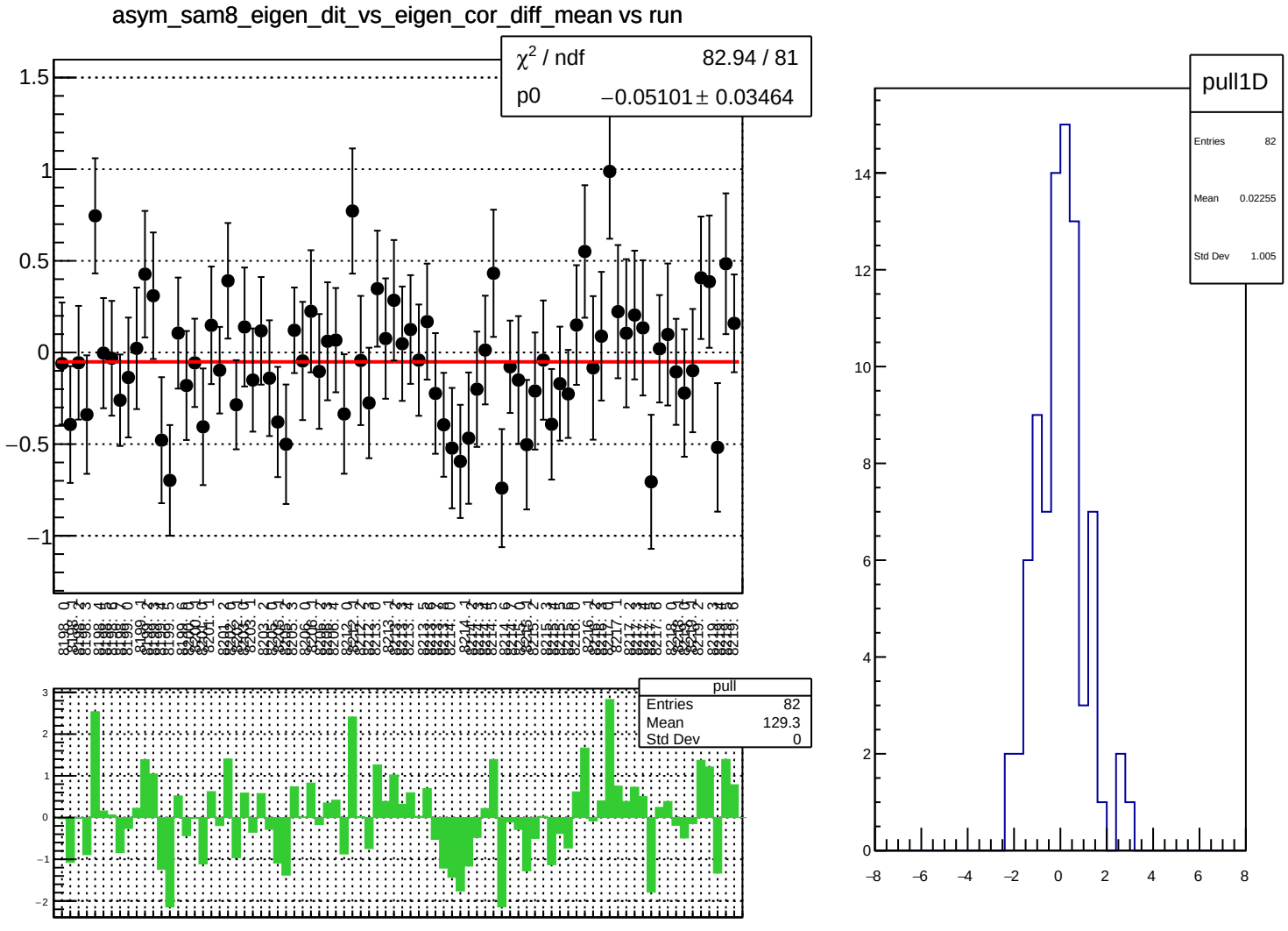

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.61 / 81
p0 2.809e−06 ± 2.583e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean 273.7
Std Dev 0
3
2
1
0
−1
−2
−3

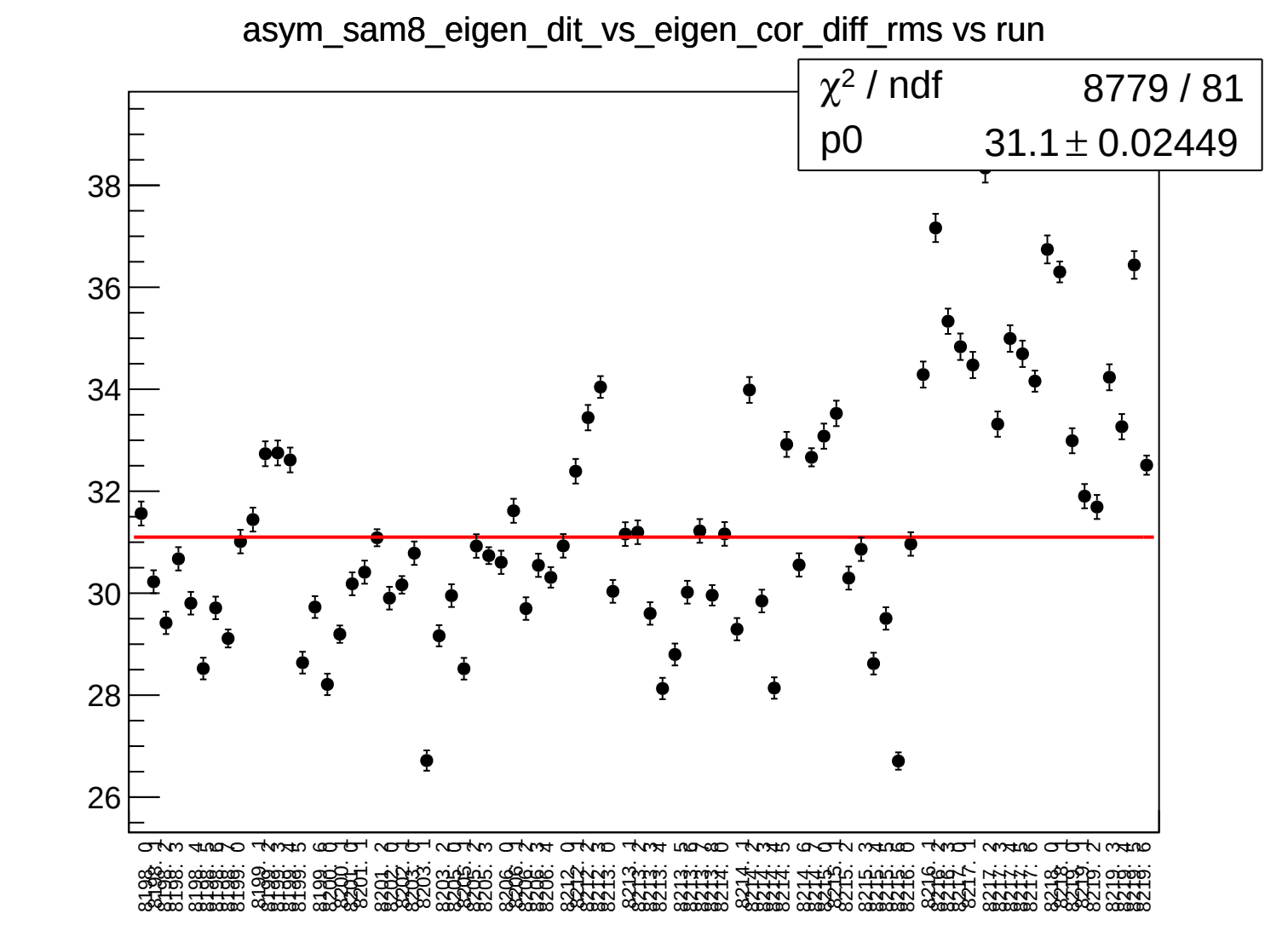

pull1D
Entries 82
Mean 0.009959
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

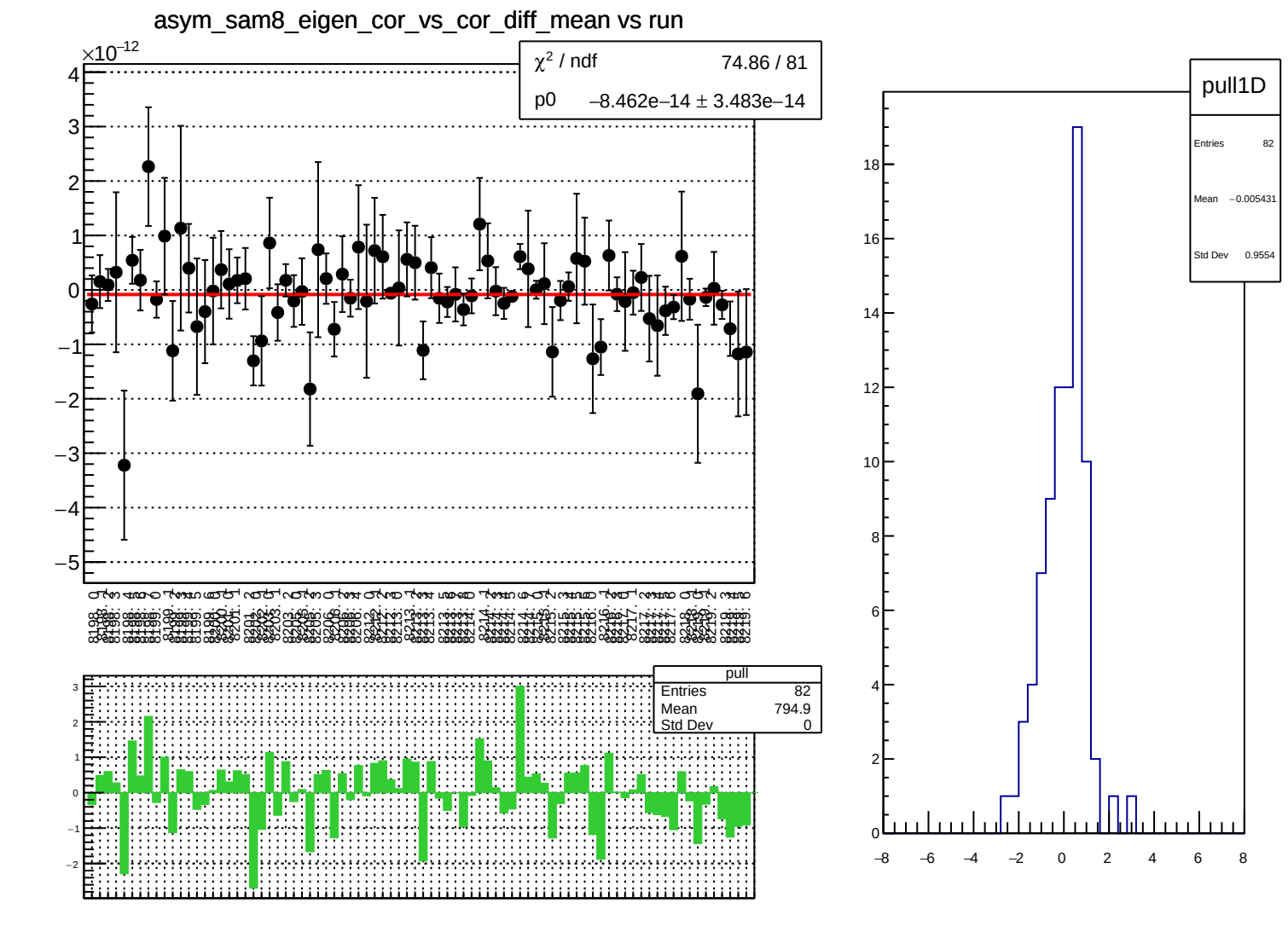

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.929e+04 / 81
p0 0.00229 ± 1.826e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

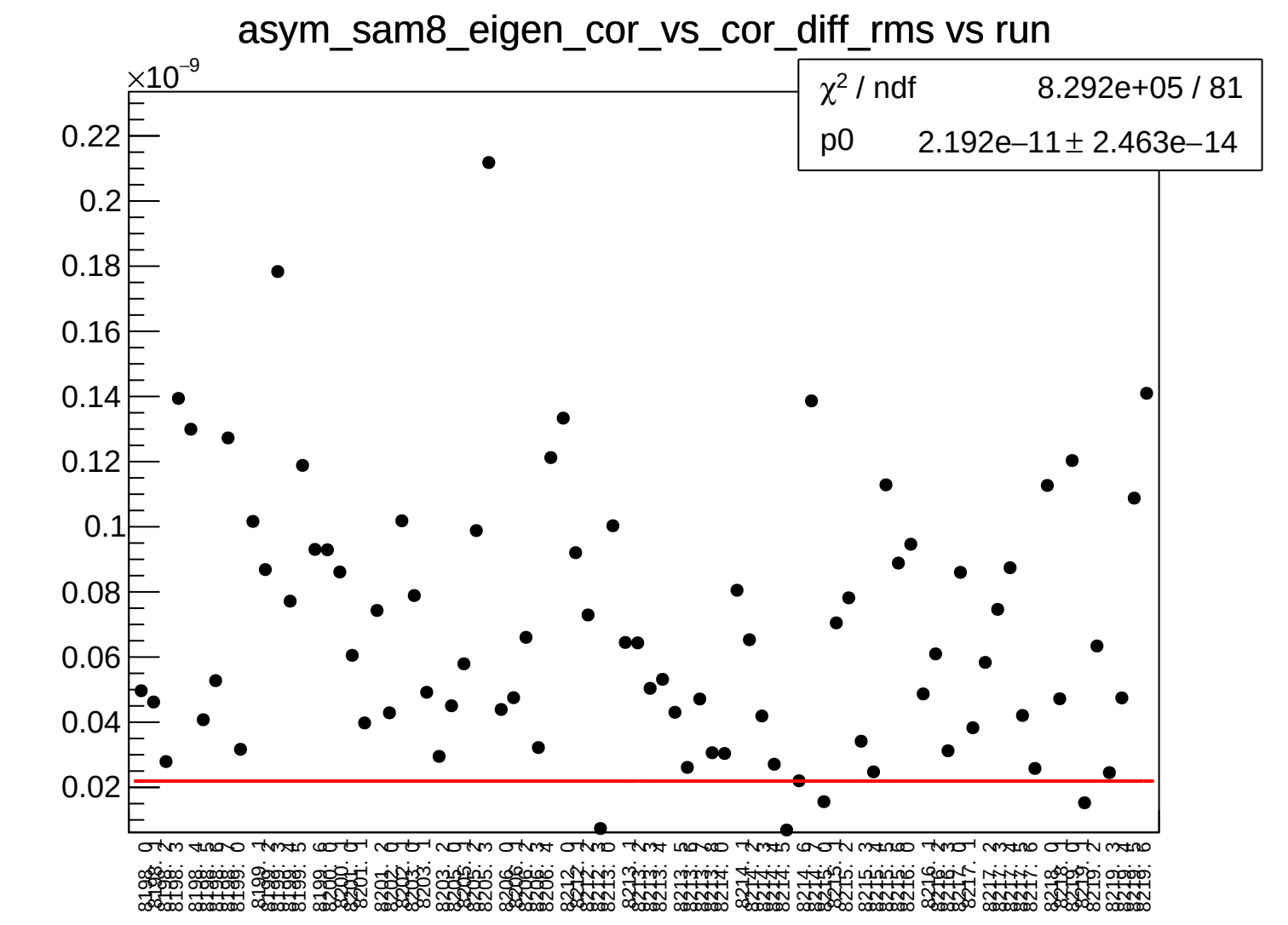

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.94 / 81
p0 −0.05101 ± 0.03464
pull
Entries 82
Mean 129.3
Std Dev 0
pull1D
Entries 82
Mean 0.02255
Std Dev 1.005

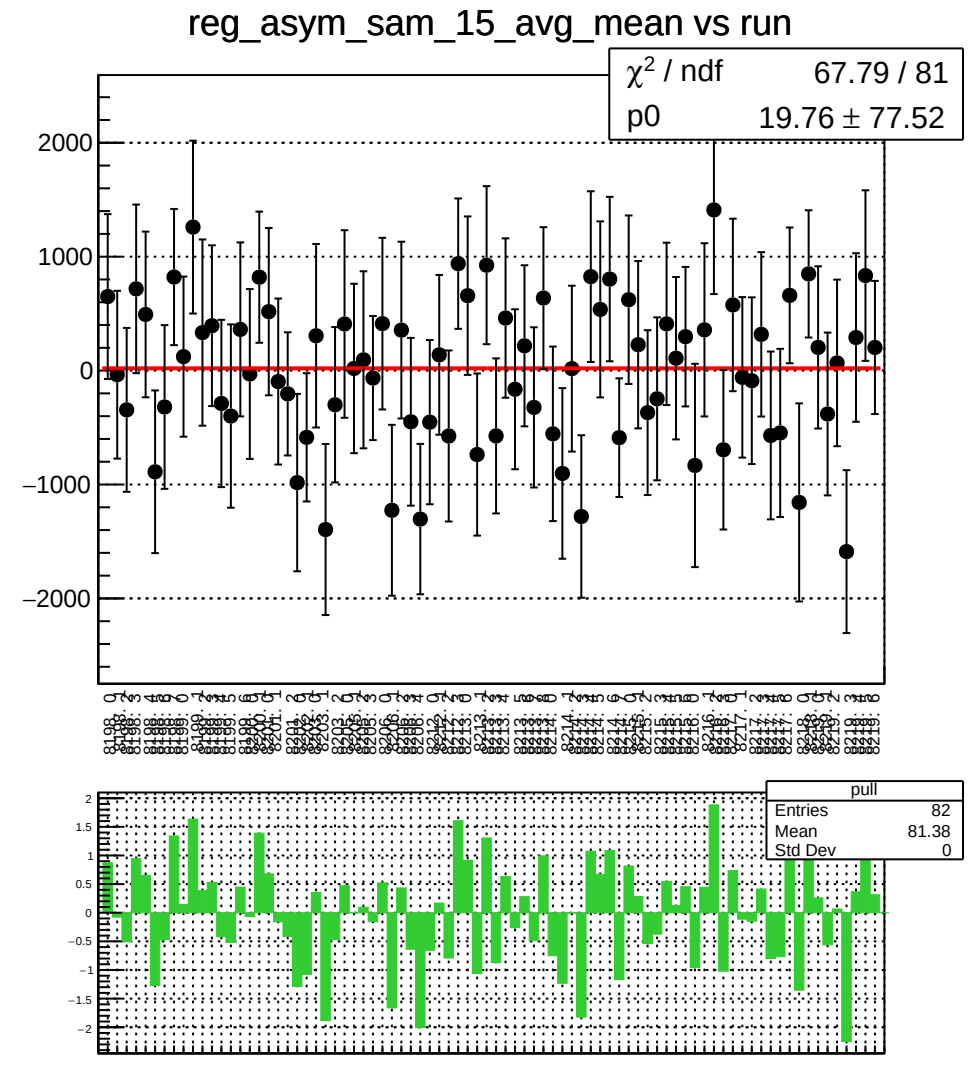

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8779 / 81
p0 31.1 ± 0.02449
38
36
34
32
30
28
26

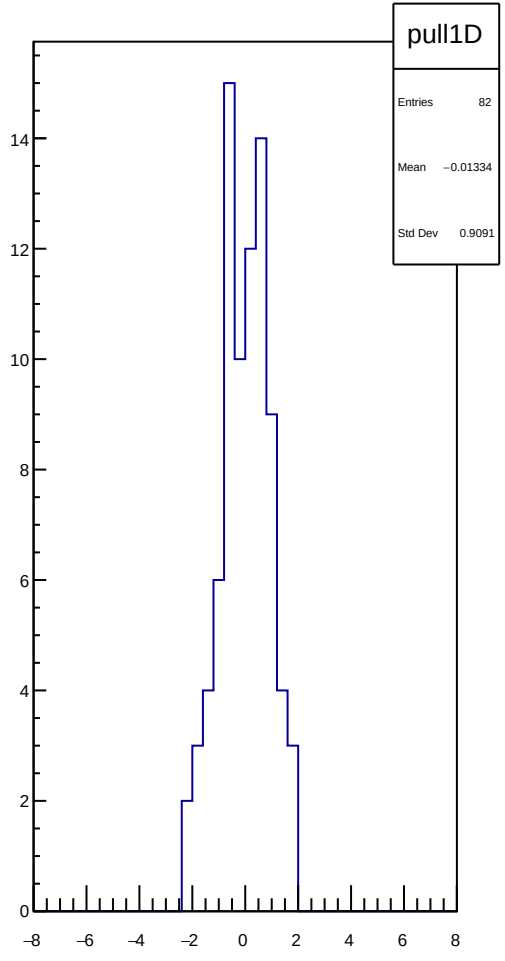

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.94 / 81
p0 −0.05101 ± 0.03464
pull
Entries 82
Mean 129.3
Std Dev 0
pull1D
Entries 82
Mean 0.02255
Std Dev 1.005

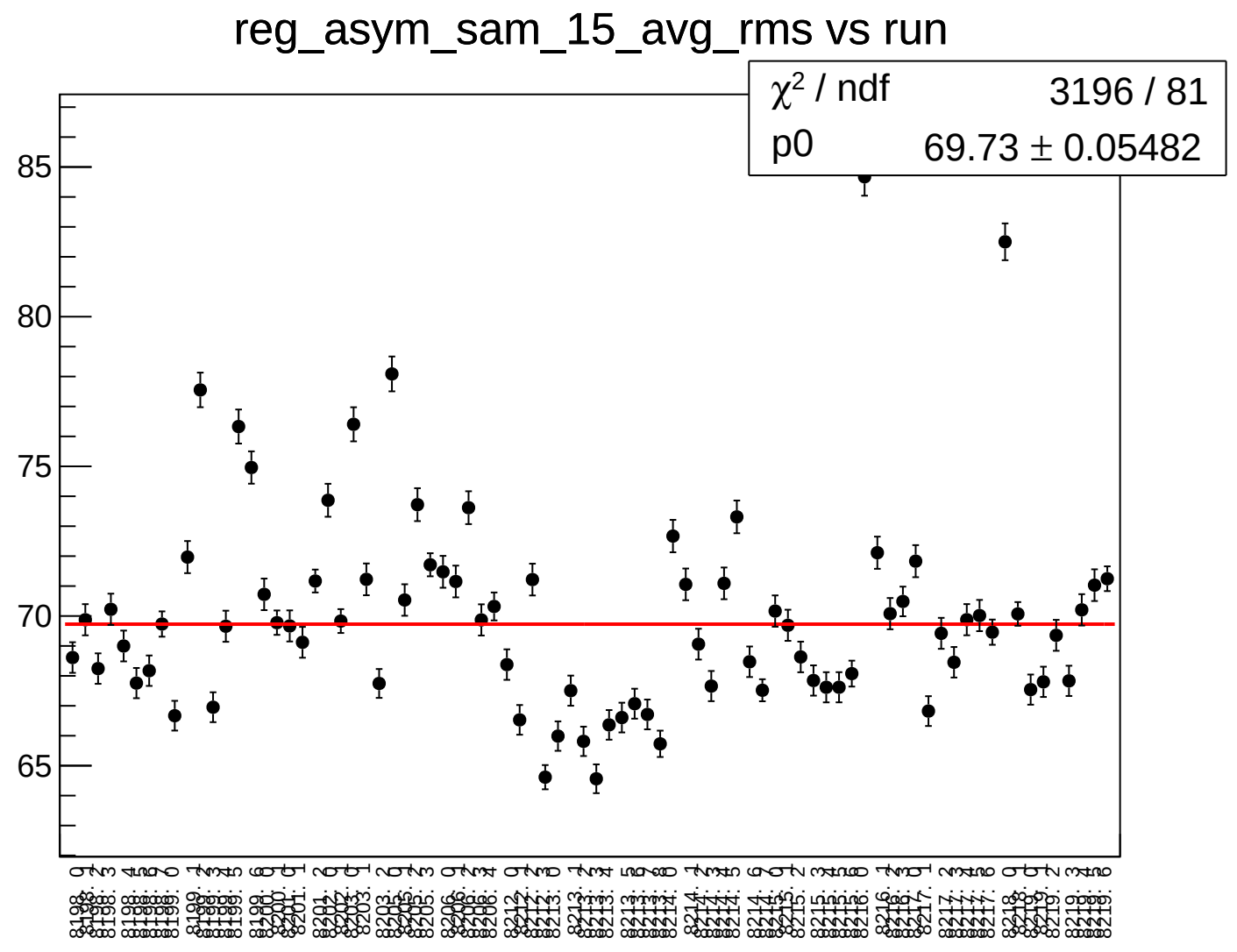

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8779 / 81
p0 31.1 ± 0.02449
38
36
34
32
30
28
26

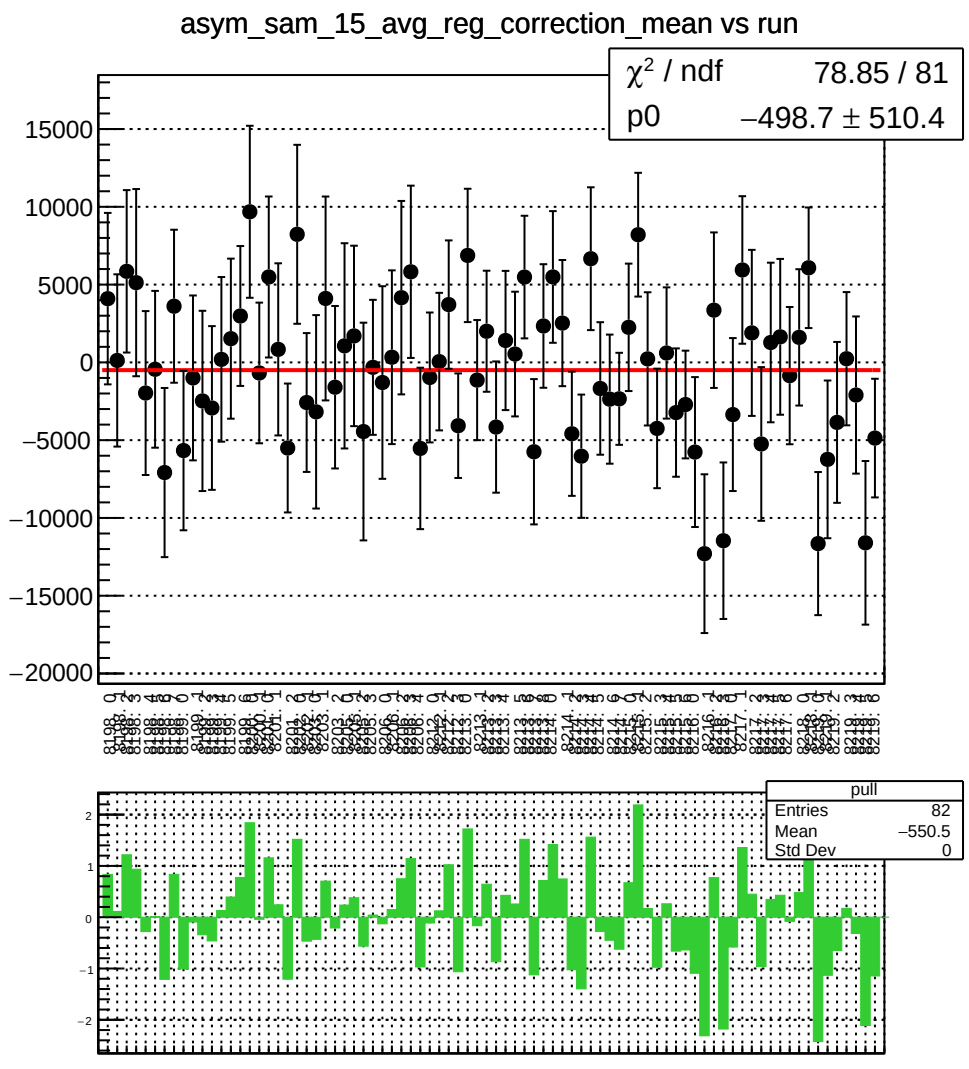

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.86 / 81
p0 −8.462e−14 ± 3.483e−14
pull
Entries 82
Mean 794.9
Std Dev 0
pull1D
Entries 82
Mean −0.005431
Std Dev 0.9554

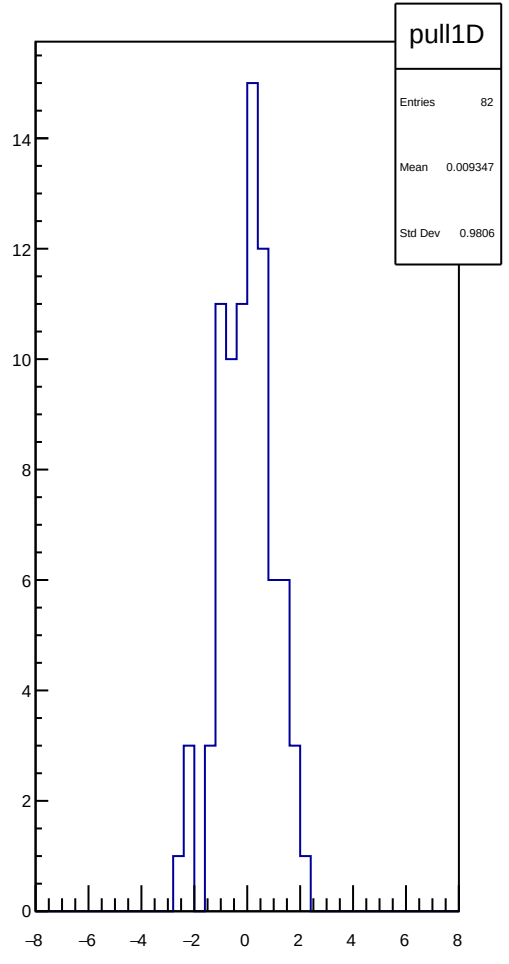

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.292e+05 / 81
p0 2.192e−11 ± 2.463e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

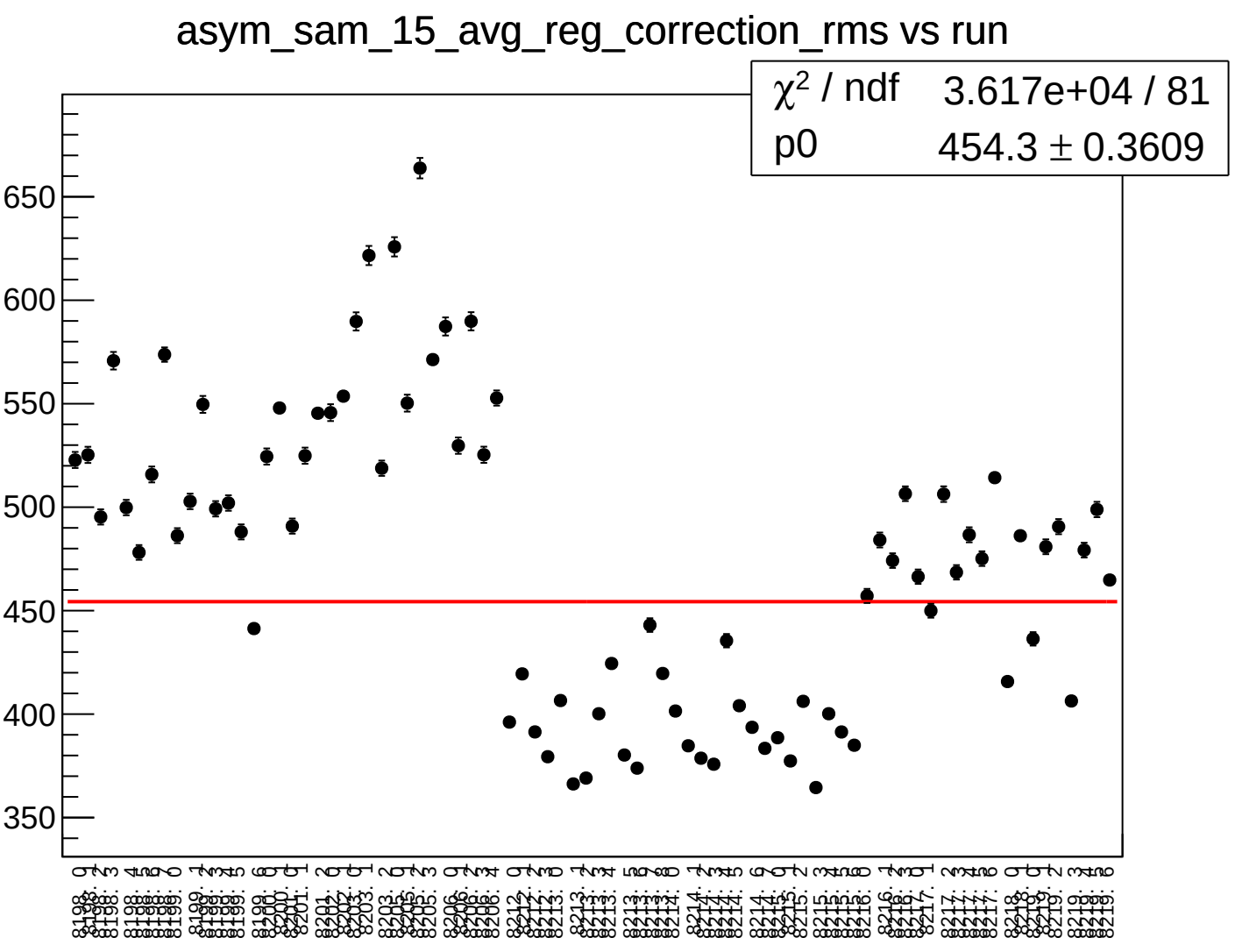

reg_asym_sam_15_avg_mean vs run
χ² / ndf 67.79 / 81
p0 19.76 ± 77.52
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 81.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

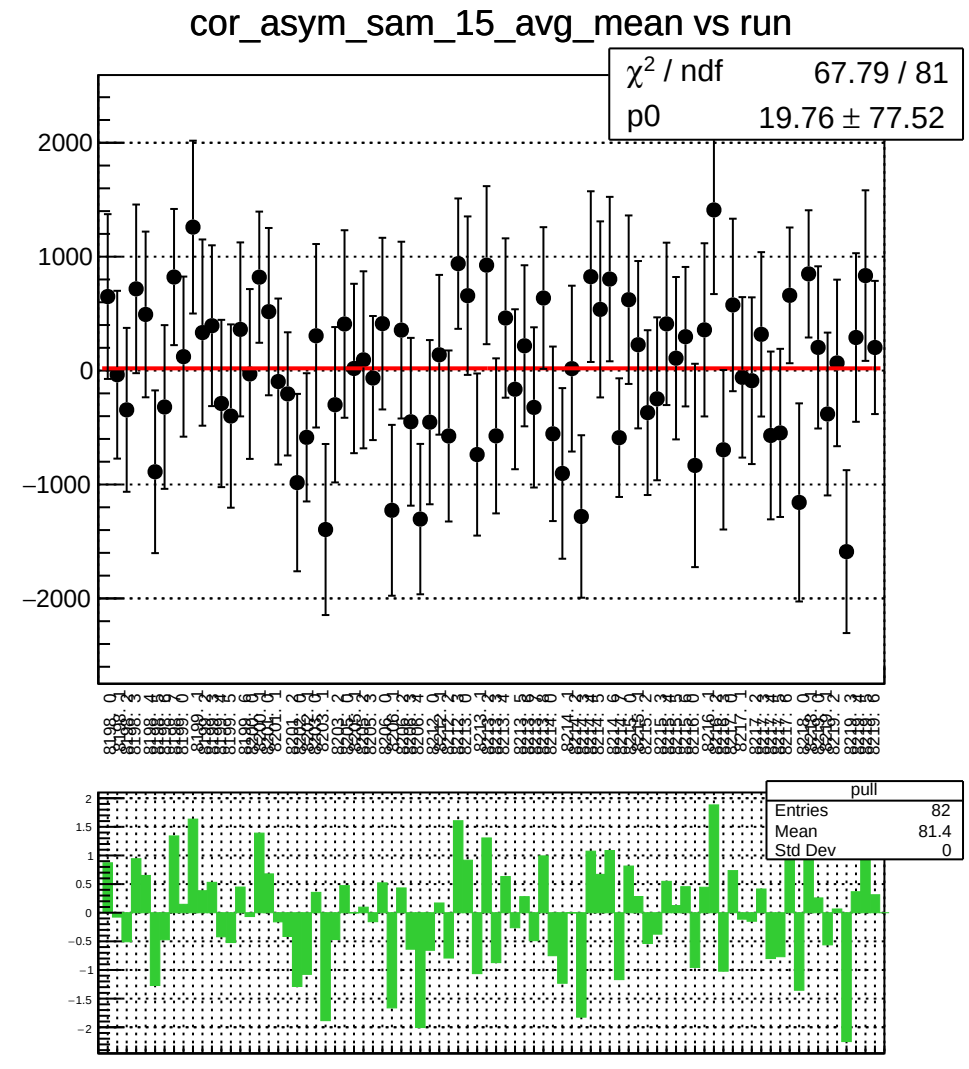

pull1D
Entries 82
Mean −0.01334
Std Dev 0.9091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

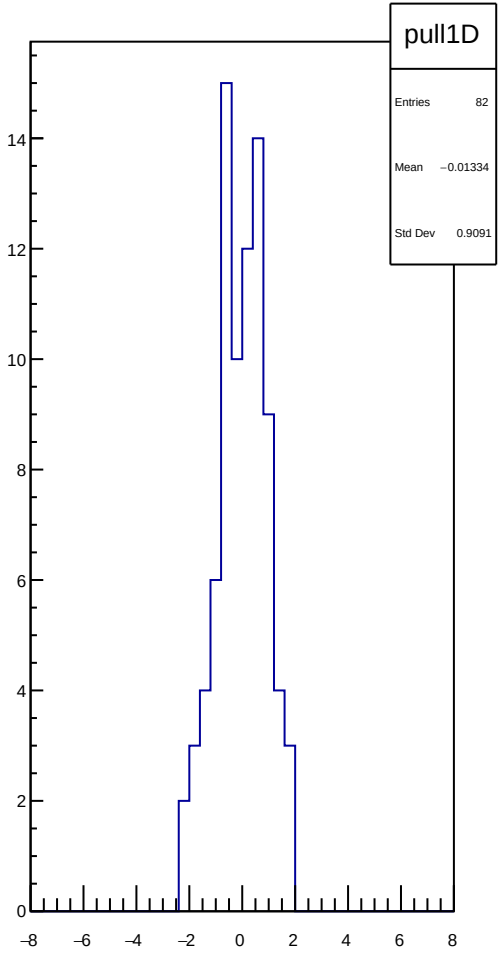

reg_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 3196 / 81
p0 69.73 ± 0.05482
85
80
75
70
65

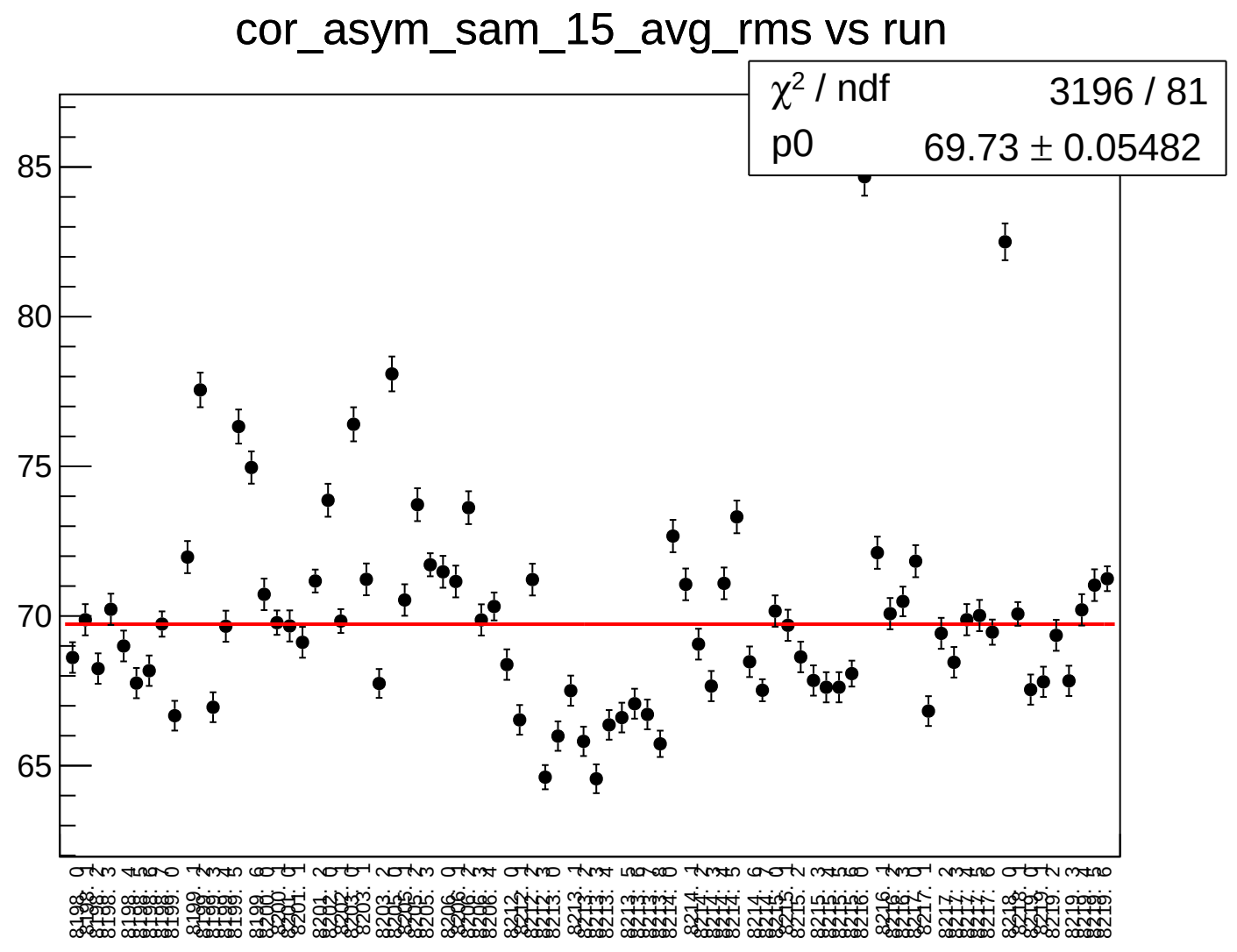

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 78.85 / 81
p0 −498.7 ± 510.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean −550.5
Std Dev 0
2
1
0
−1
−2

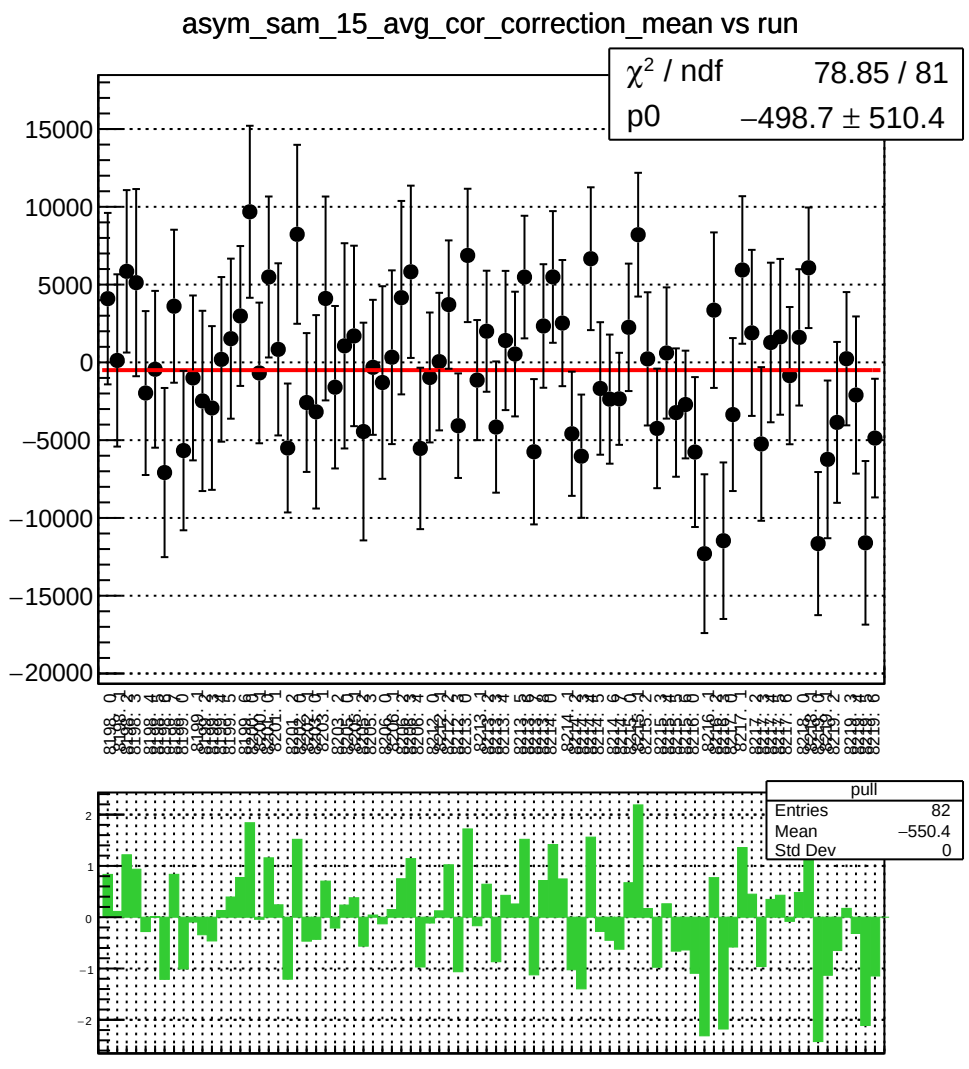

pull1D
Entries 82
Mean 0.009347
Std Dev 0.9806
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

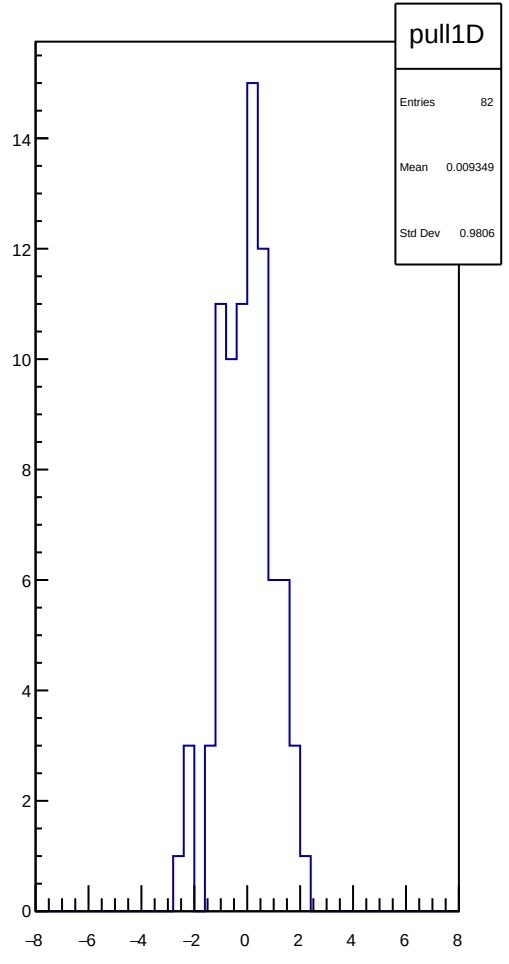

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 3.617e+04 / 81
p0 454.3 ± 0.3609
650
600
550
500
450
400
350

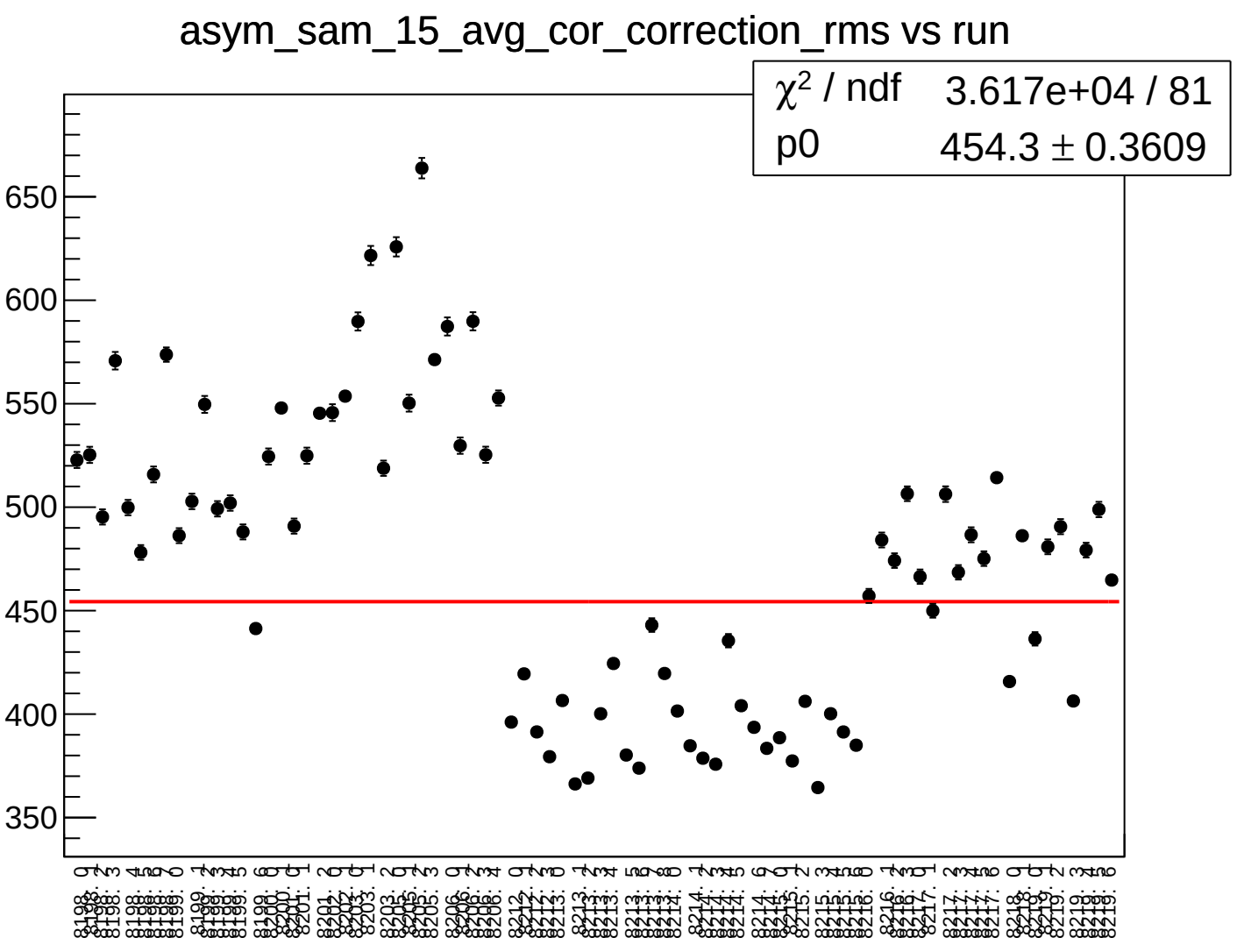

cor_asym_sam_15_avg_mean vs run
χ² / ndf 67.79 / 81
p0 19.76 ± 77.52
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 81.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

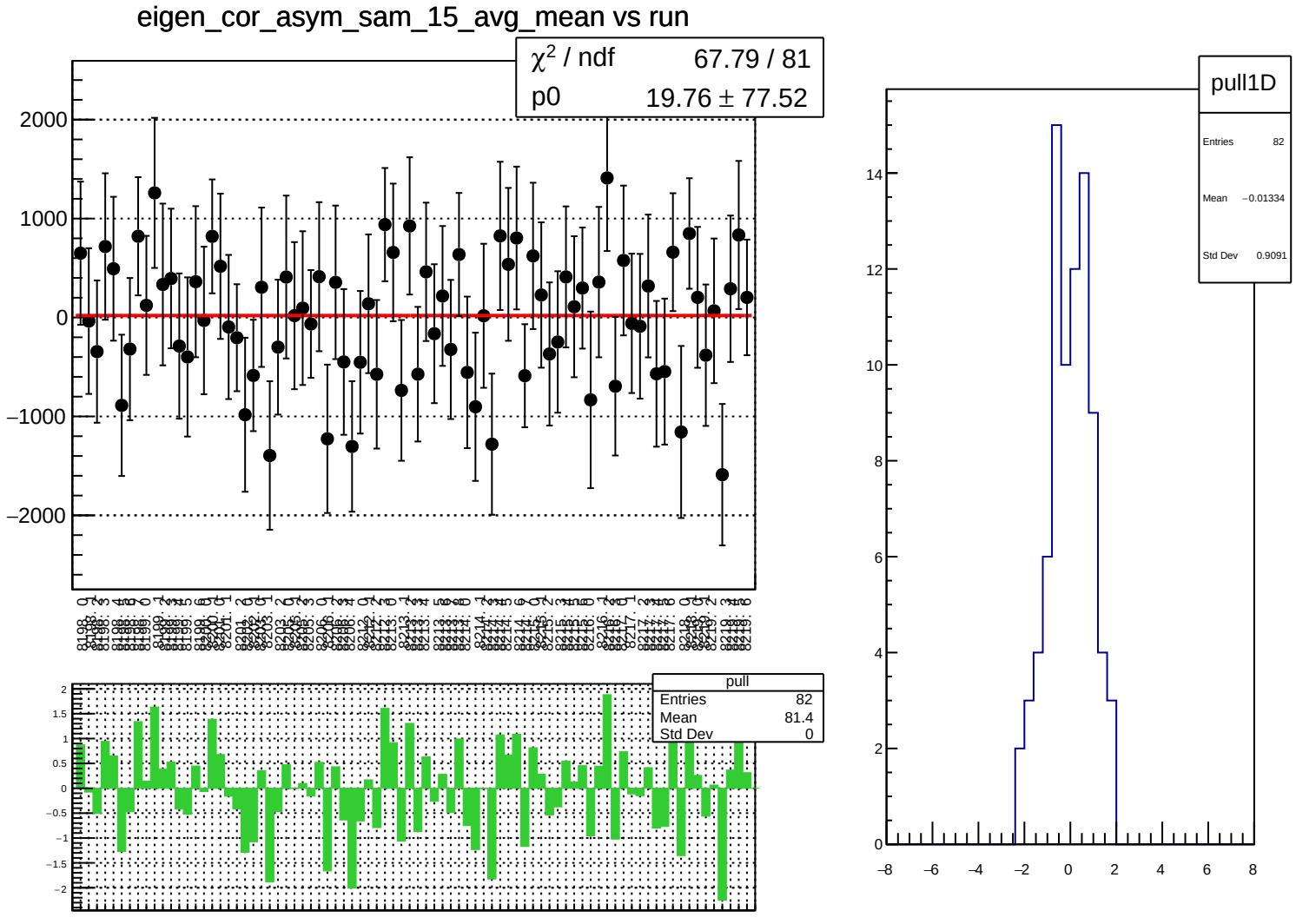

pull1D
Entries 82
Mean −0.01334
Std Dev 0.9091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

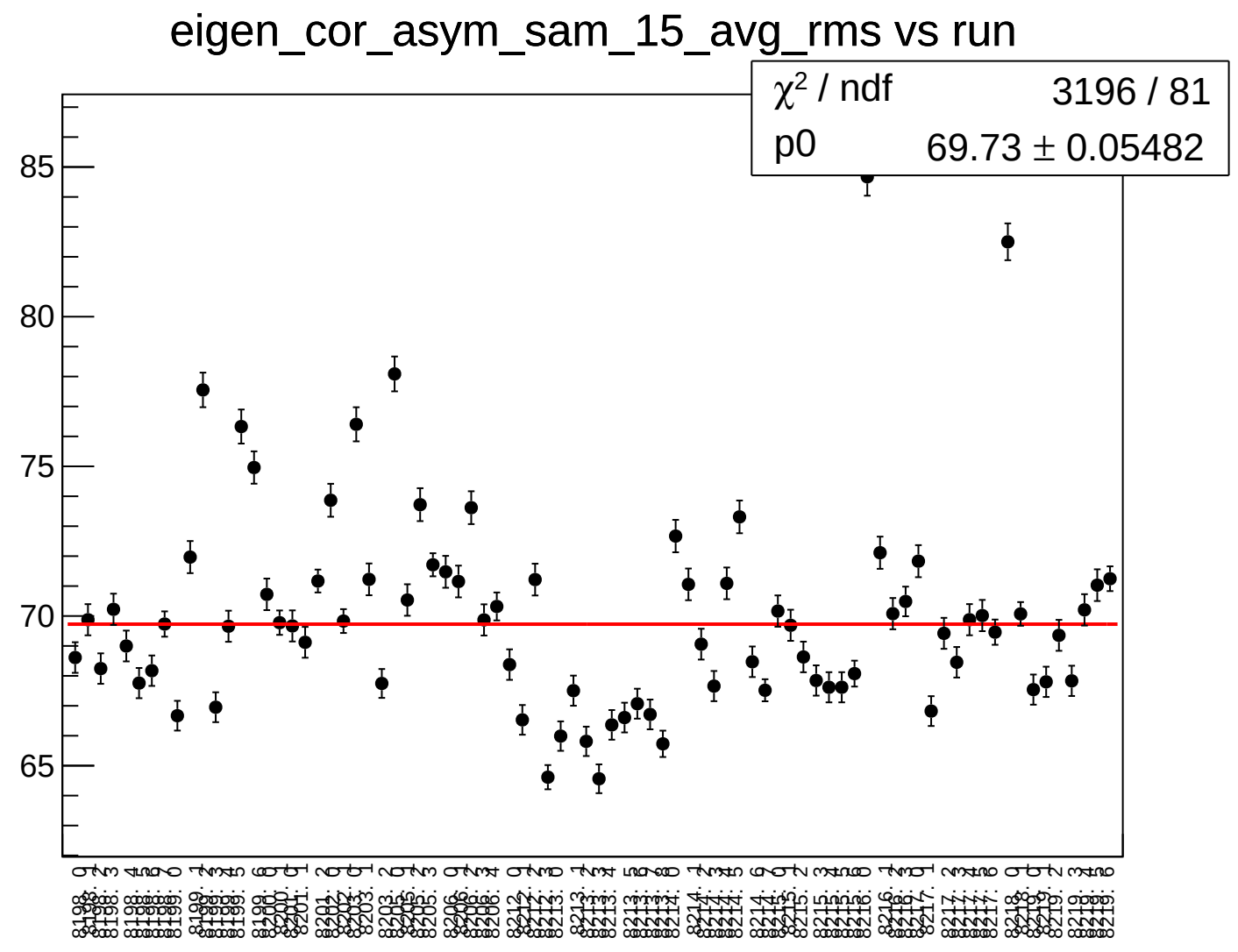

cor_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 3196 / 81
p0 69.73 ± 0.05482
85
80
75
70
65

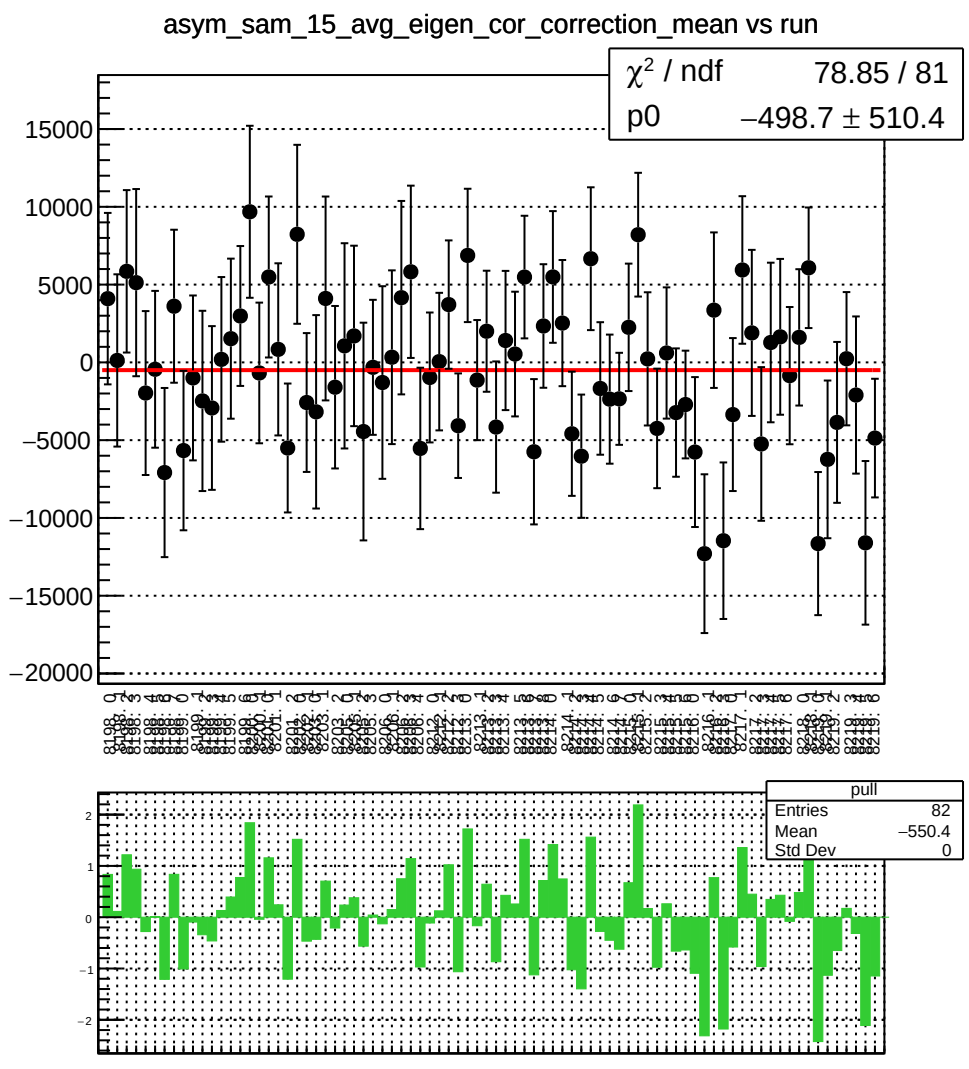

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 78.85 / 81
p0 −498.7 ± 510.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean −550.4
Std Dev 0
2
1
0
−1
−2

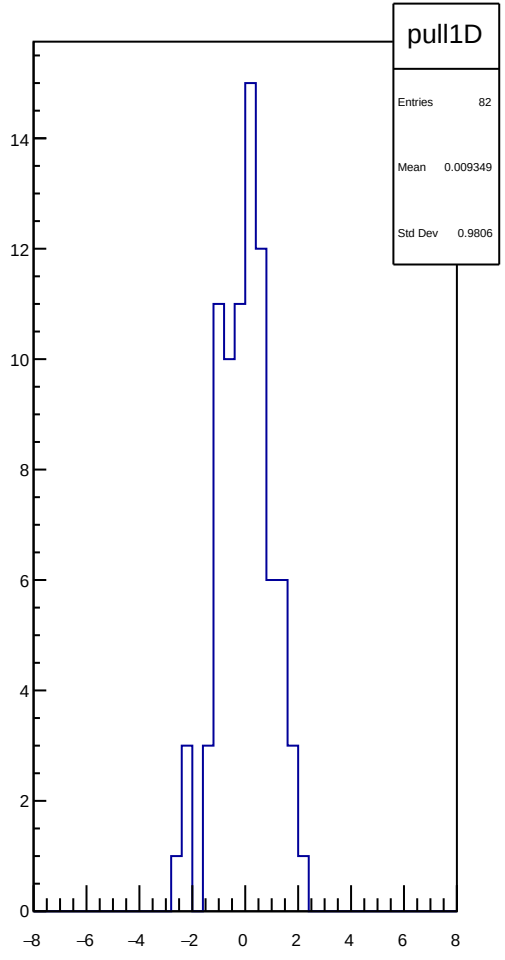

pull1D
Entries 82
Mean 0.009349
Std Dev 0.9806
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 3.617e+04 / 81
p0 454.3 ± 0.3609
650
600
550
500
450
400
350


eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 67.79 / 81
p0 19.76 ± 77.52
pull
Entries 82
Mean 81.4
Std Dev 0
pull1D
Entries 82
Mean −0.01334
Std Dev 0.9091


eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 3196 / 81
p0 69.73 ± 0.05482
85
80
75
70
65


asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.85 / 81
p0 −498.7 ± 510.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean −550.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 82
Mean 0.009349
Std Dev 0.9806
14
12
10
8
6
4
2
0
−8
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−4
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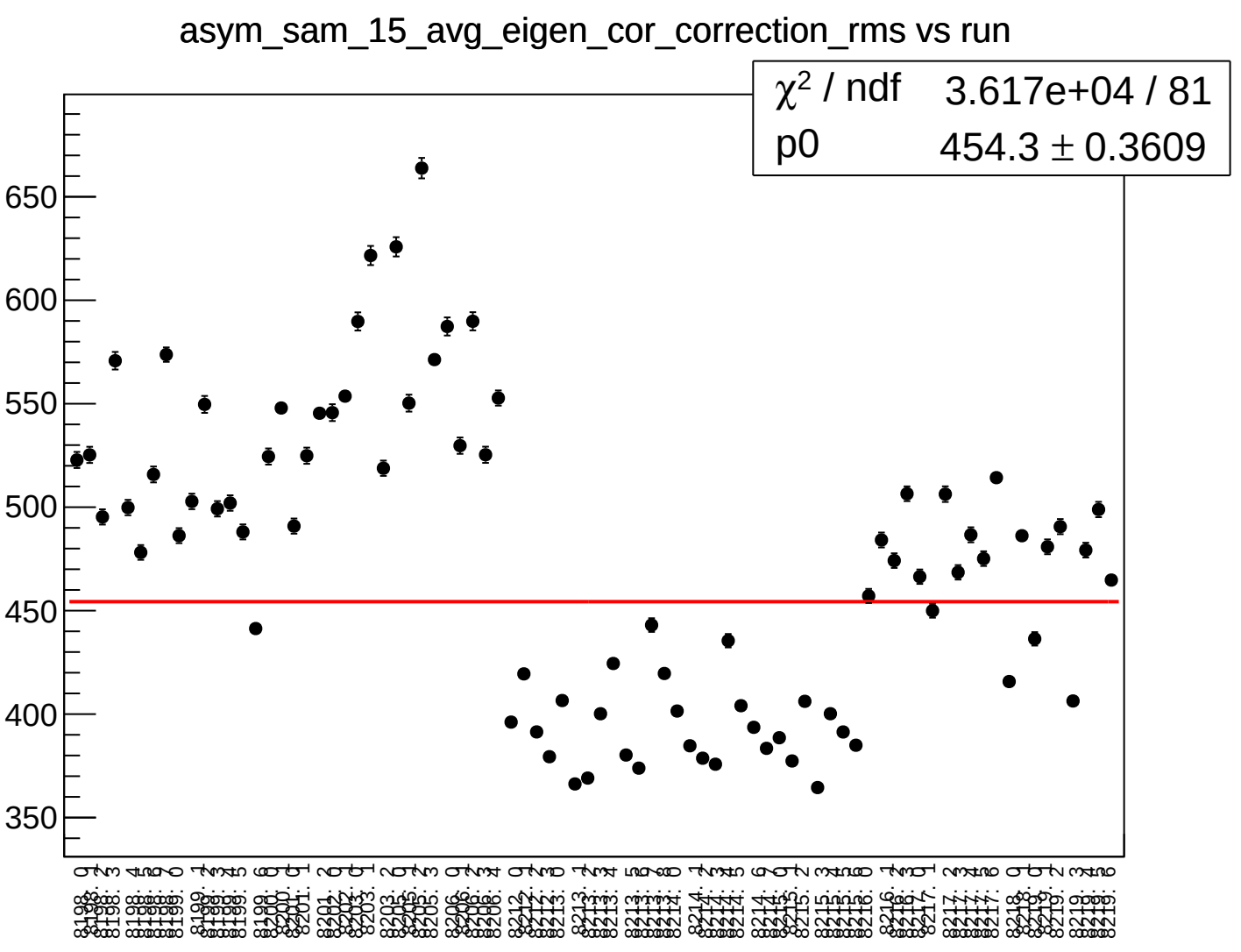
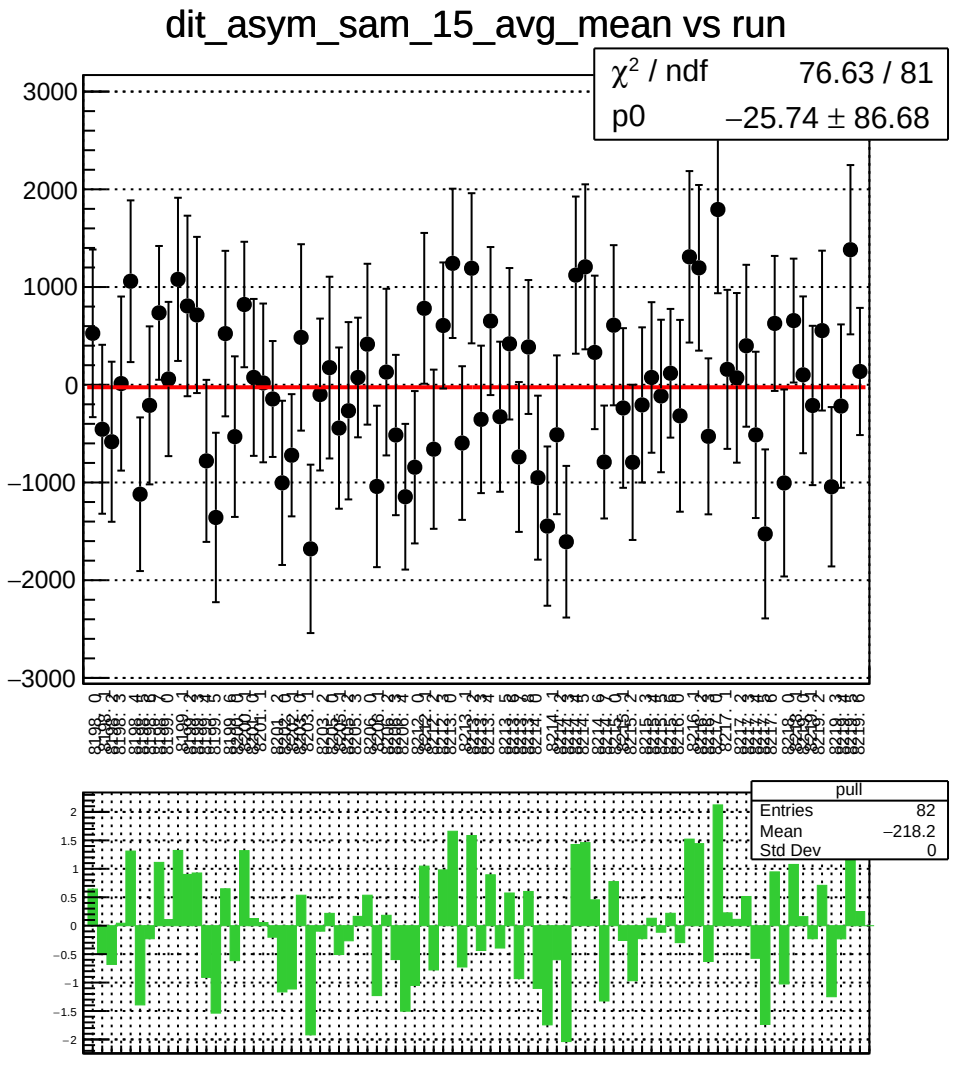
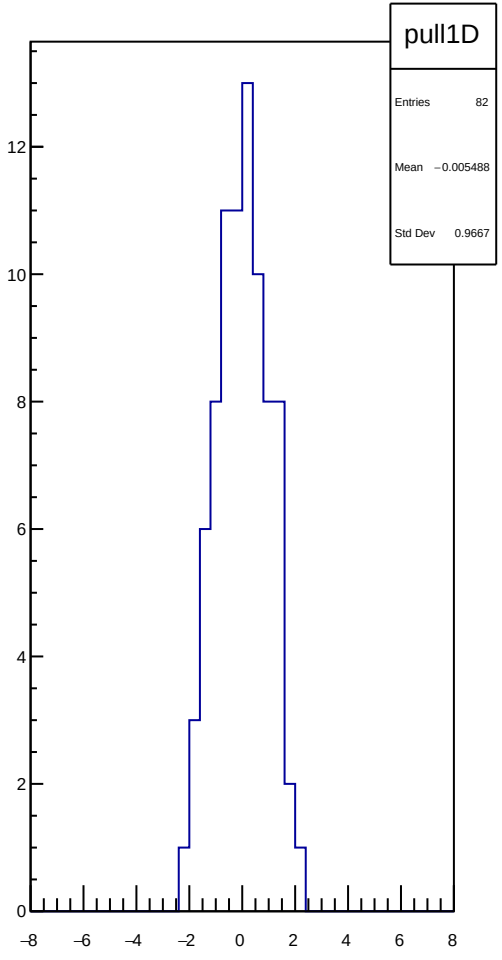
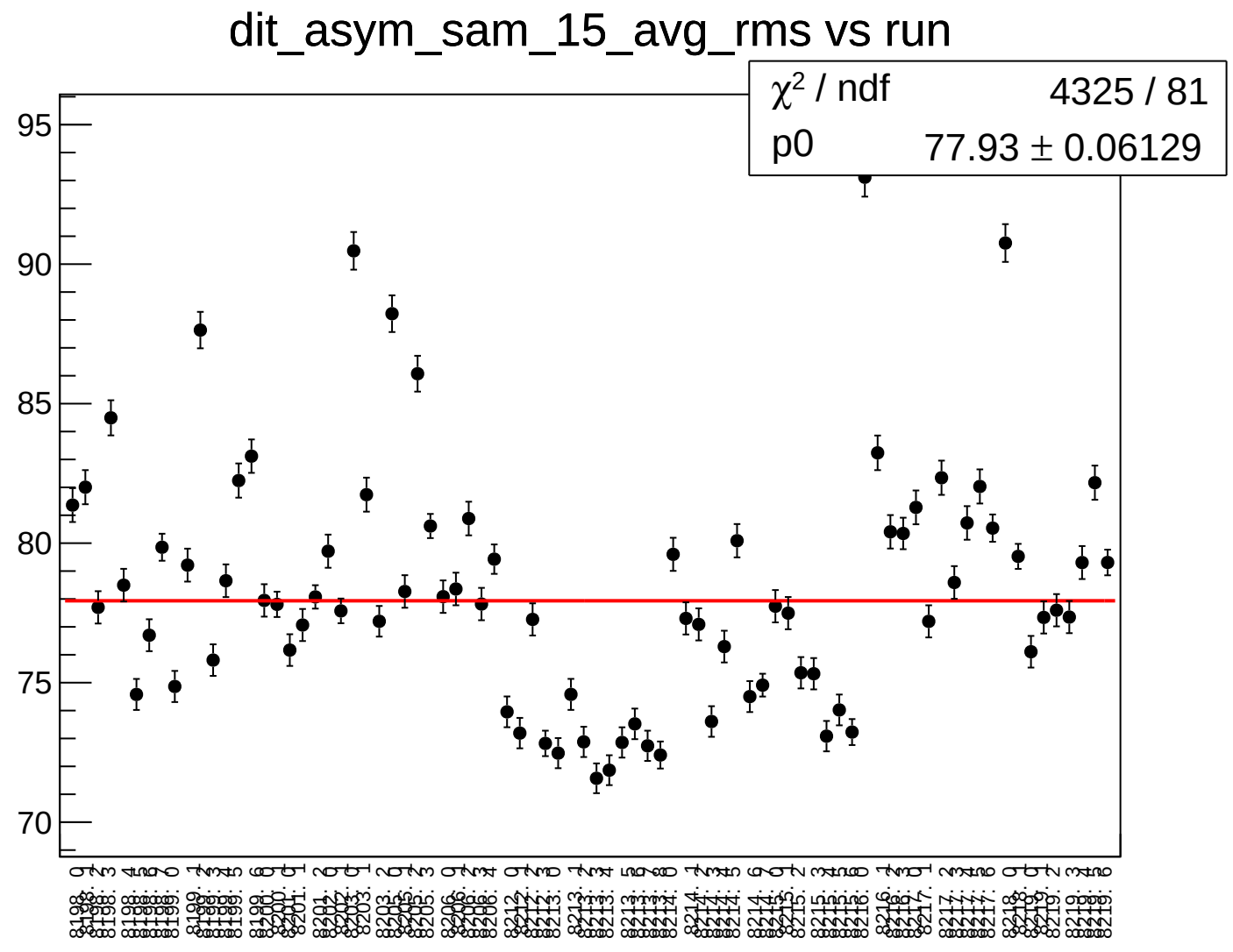
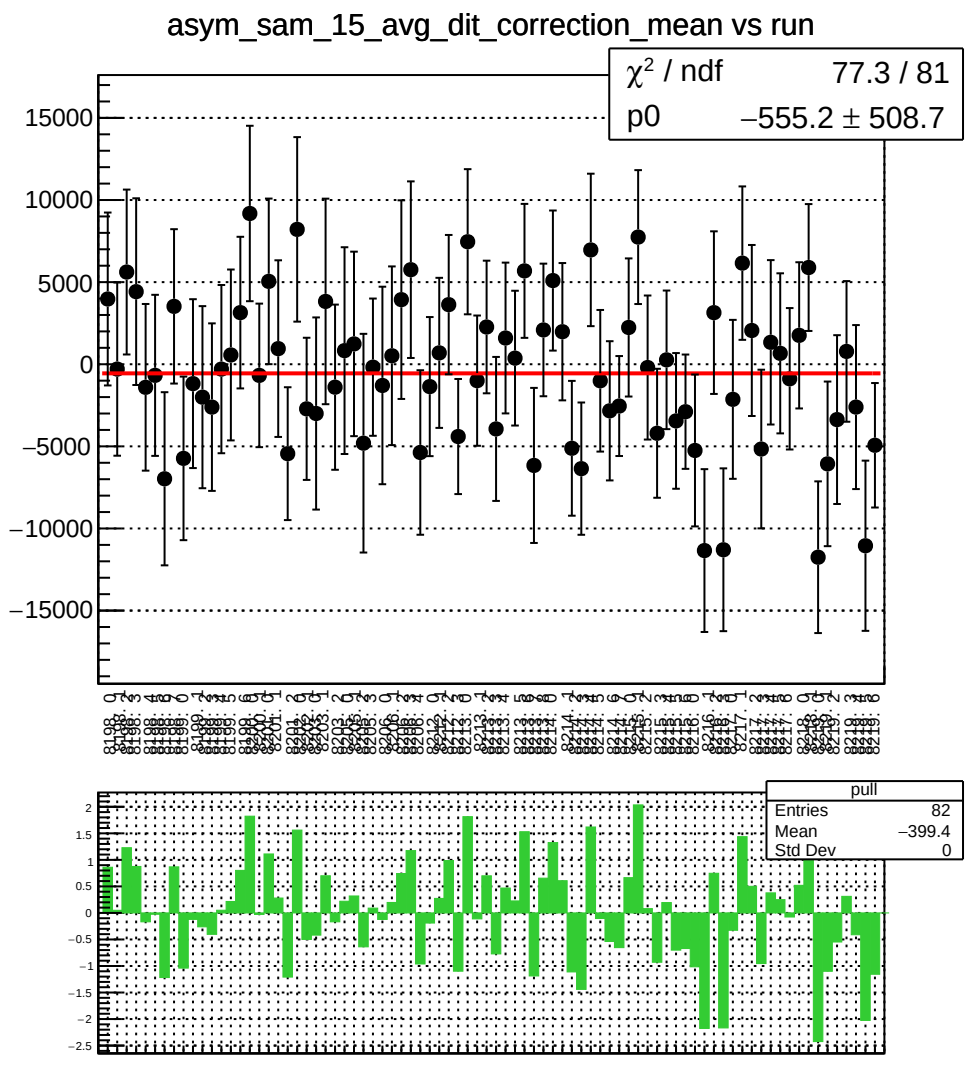
2
4
6
8

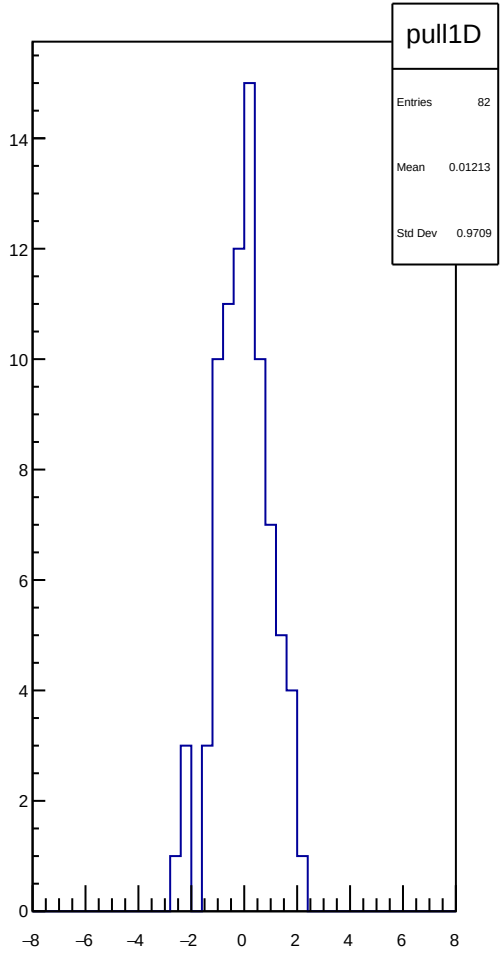

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.617e+04 / 81
p0 454.3 ± 0.3609
650
600
550
500
450
400
350

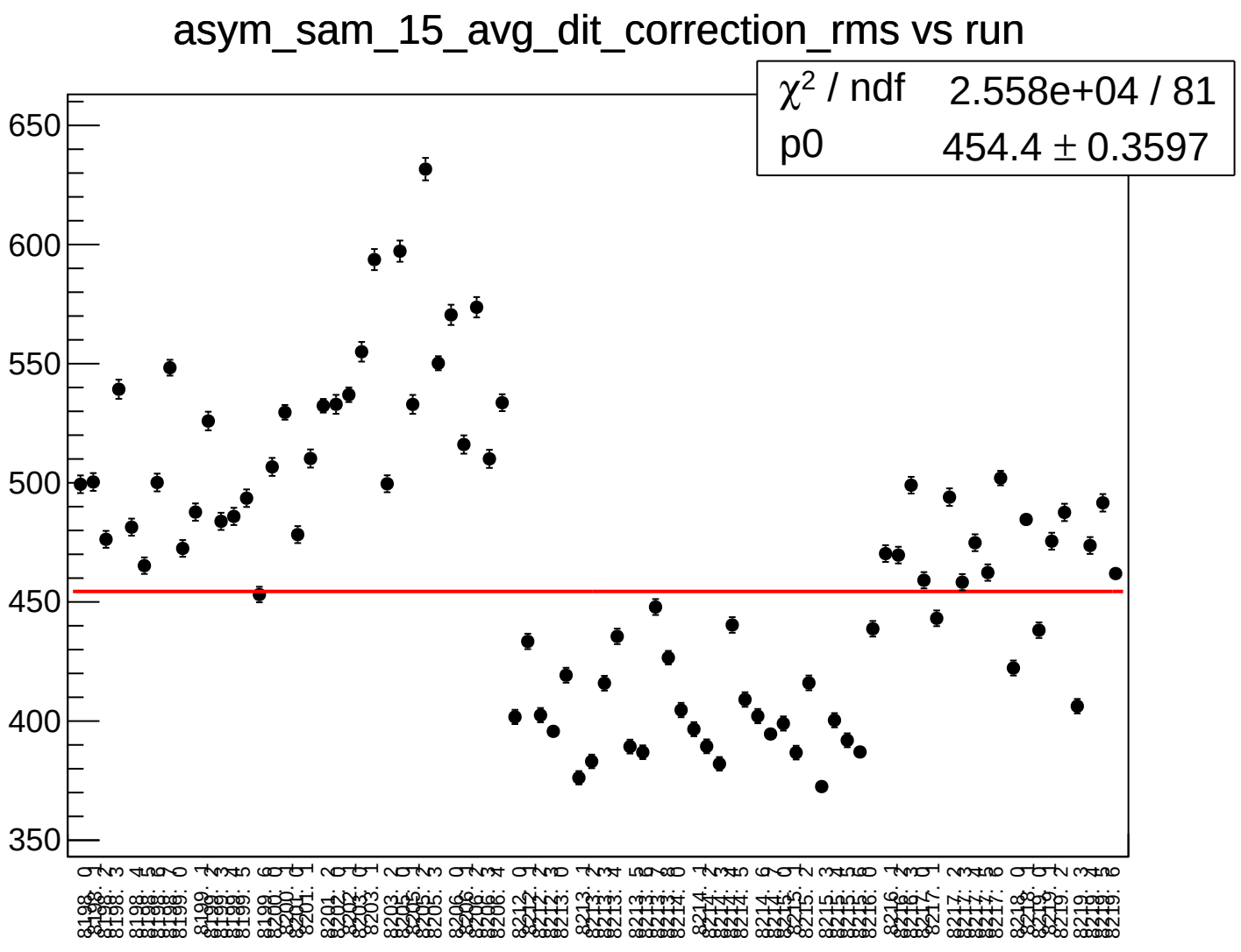

dit_asym_sam_15_avg_mean vs run
χ² / ndf 76.63 / 81
p0 −25.74 ± 86.68
pull
Entries 82
Mean −218.2
Std Dev 0

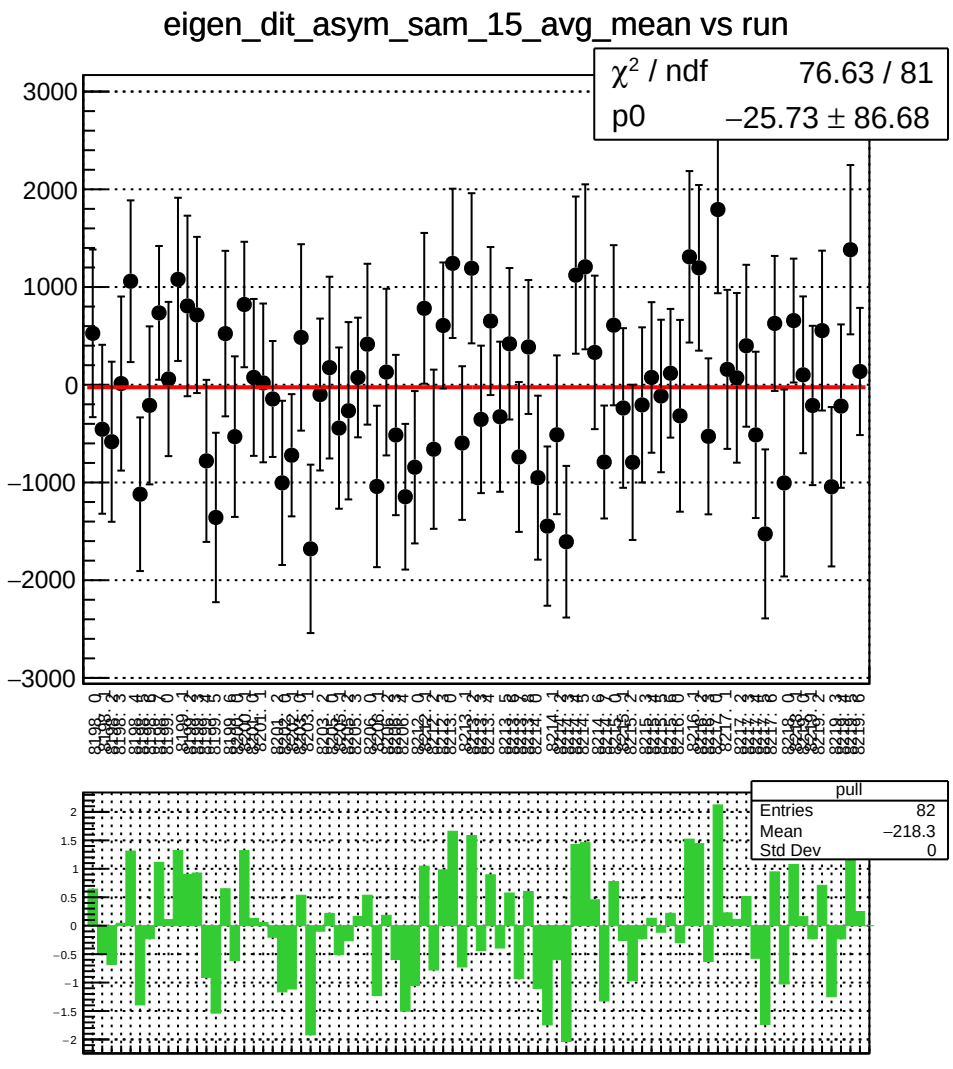

pull1D
Entries 82
Mean −0.005488
Std Dev 0.9667

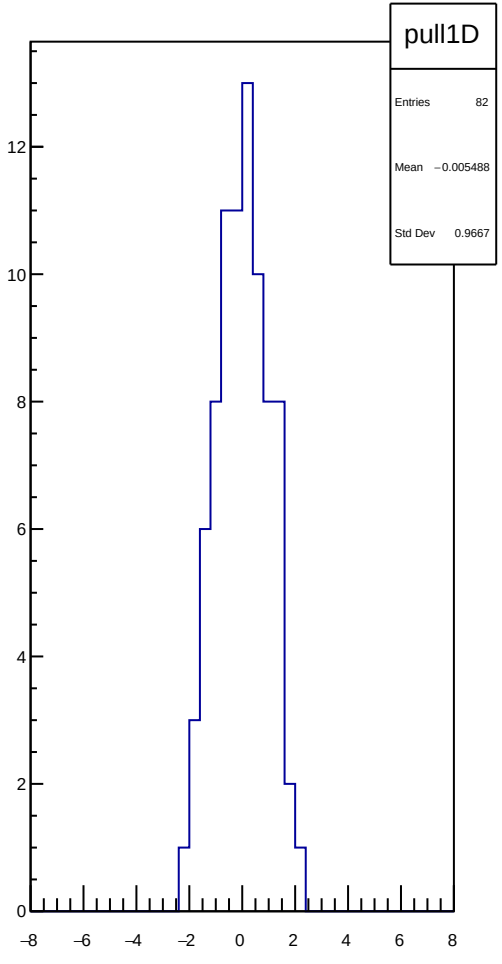

dit_asym_sam_15_avg_rms vs run
χ² / ndf 4325 / 81
p0 77.93 ± 0.06129
95
90
85
80
75
70

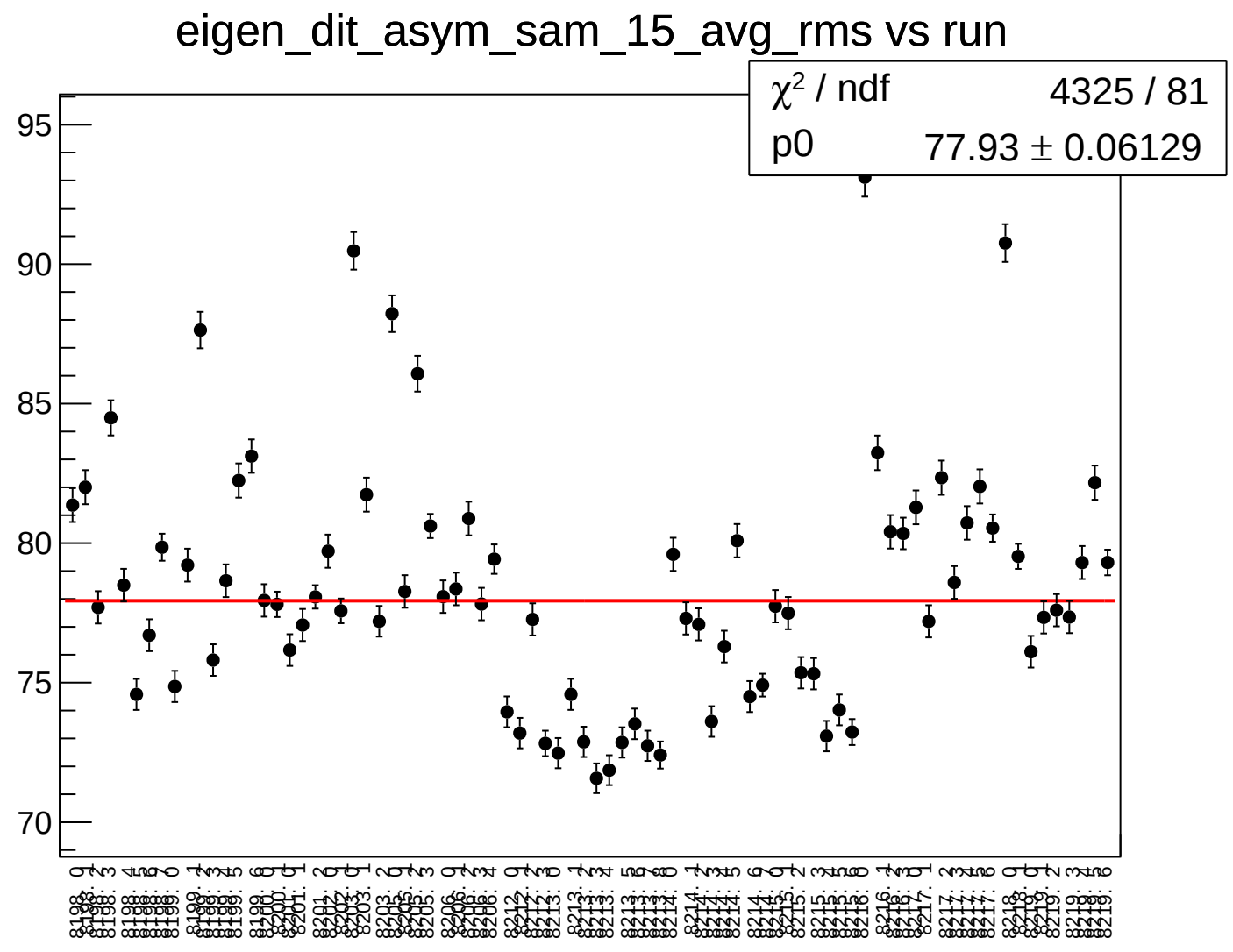

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 77.3 / 81
p0 −555.2 ± 508.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −399.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

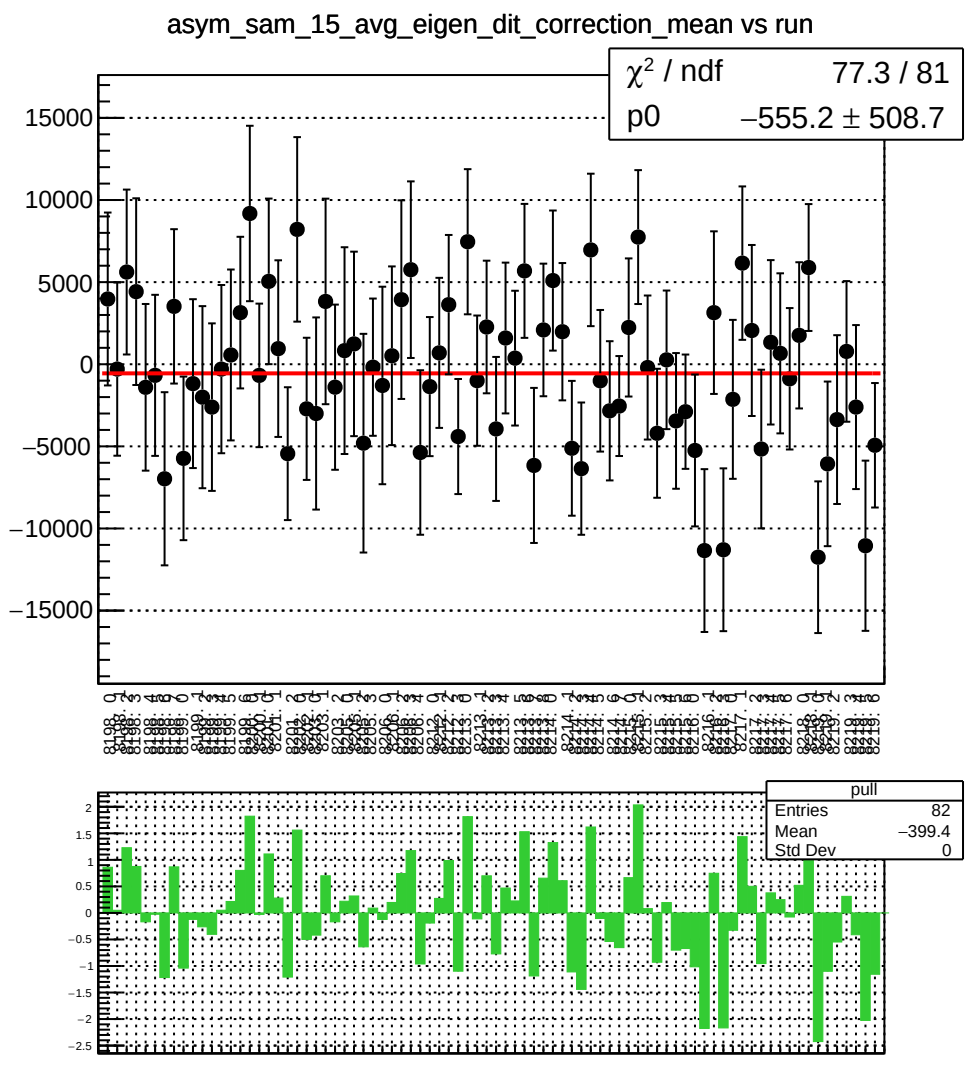

pull1D
Entries 82
Mean 0.01213
Std Dev 0.9709
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

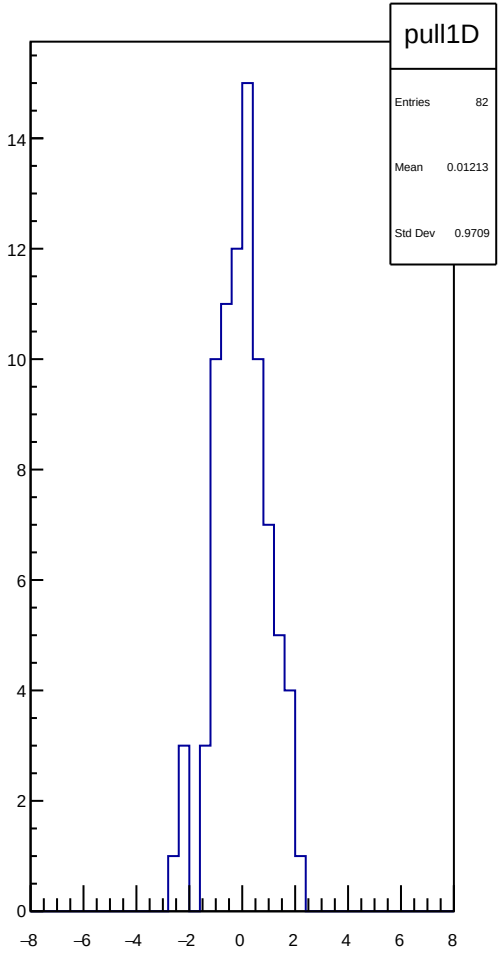

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 2.558e+04 / 81
p0 454.4 ± 0.3597
650
600
550
500
450
400
350

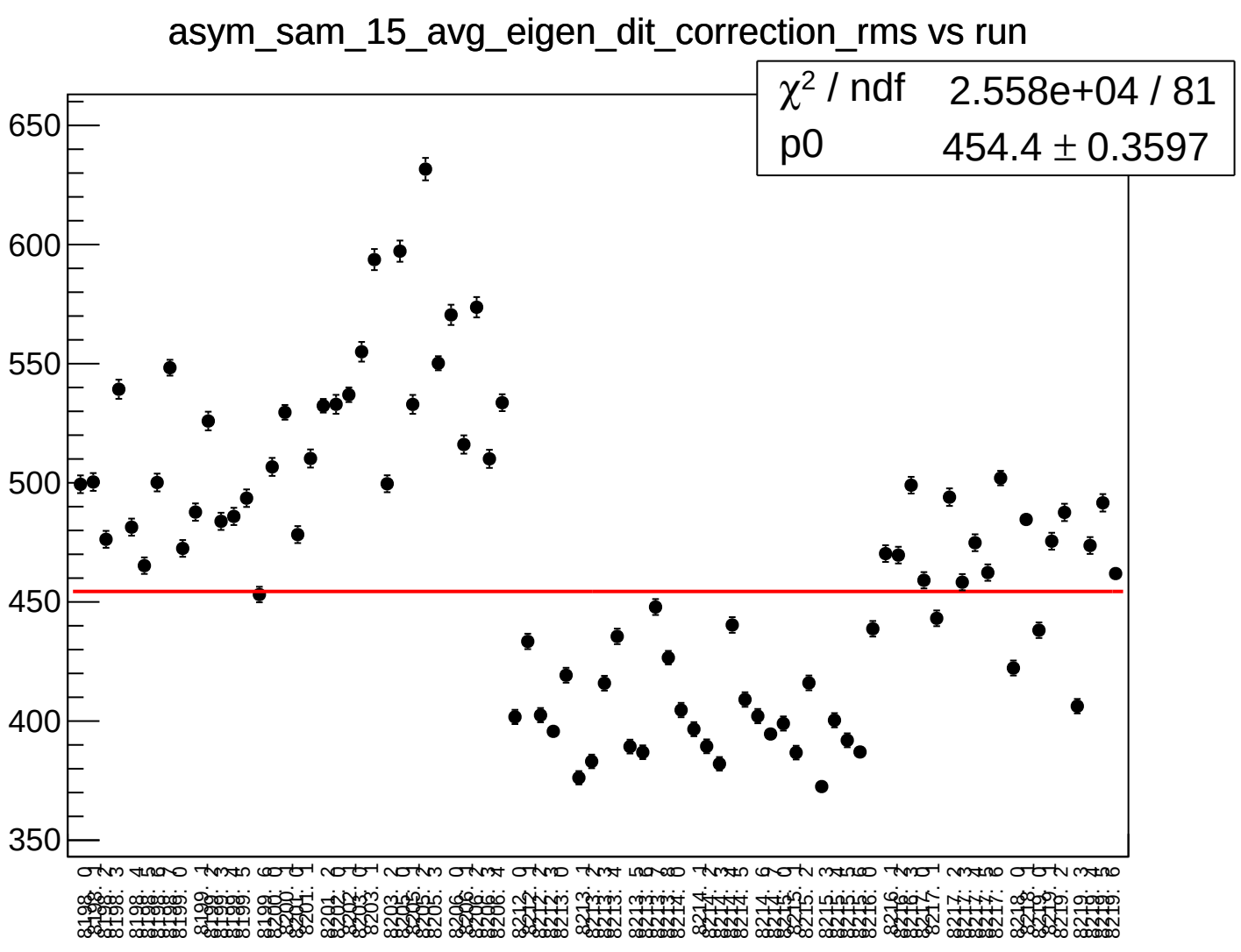

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 76.63 / 81
p0 −25.73 ± 86.68
pull
Entries 82
Mean −218.3
Std Dev 0

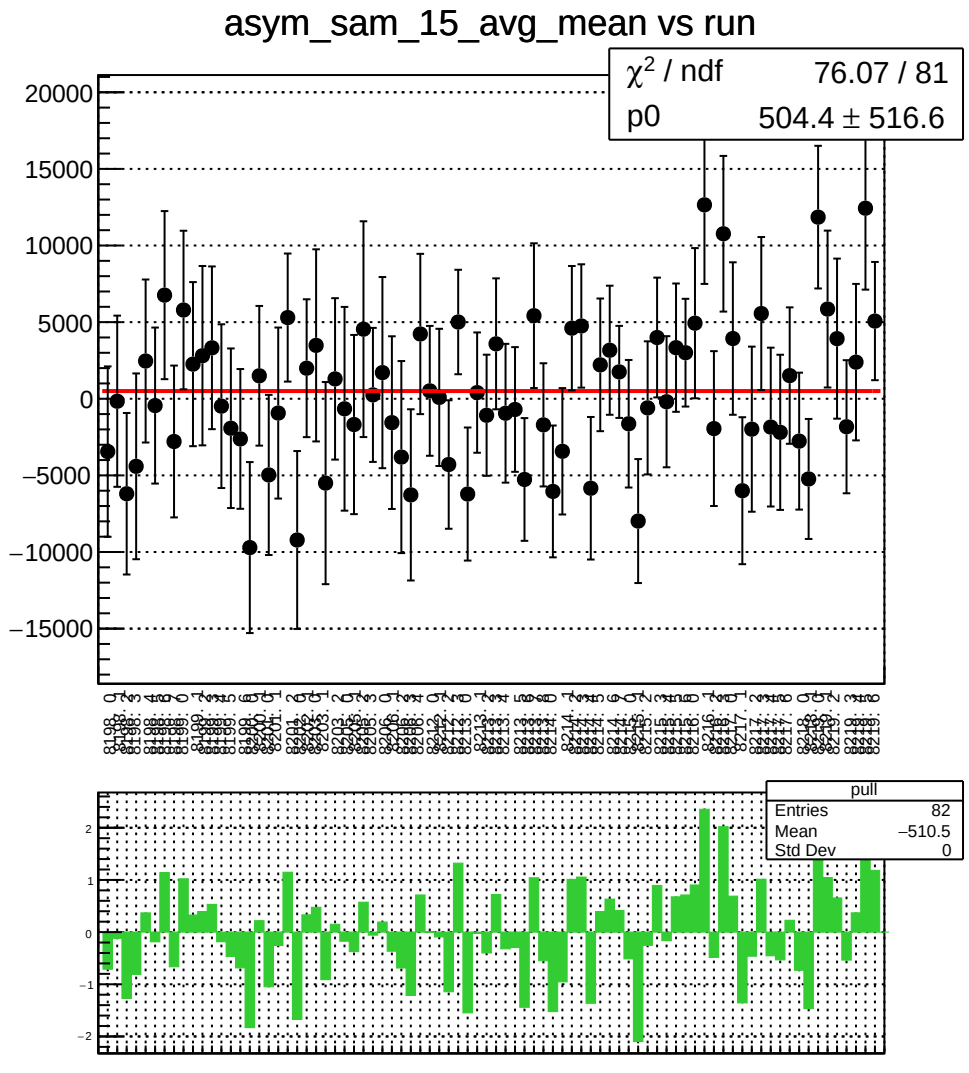

pull1D
Entries 82
Mean −0.005488
Std Dev 0.9667

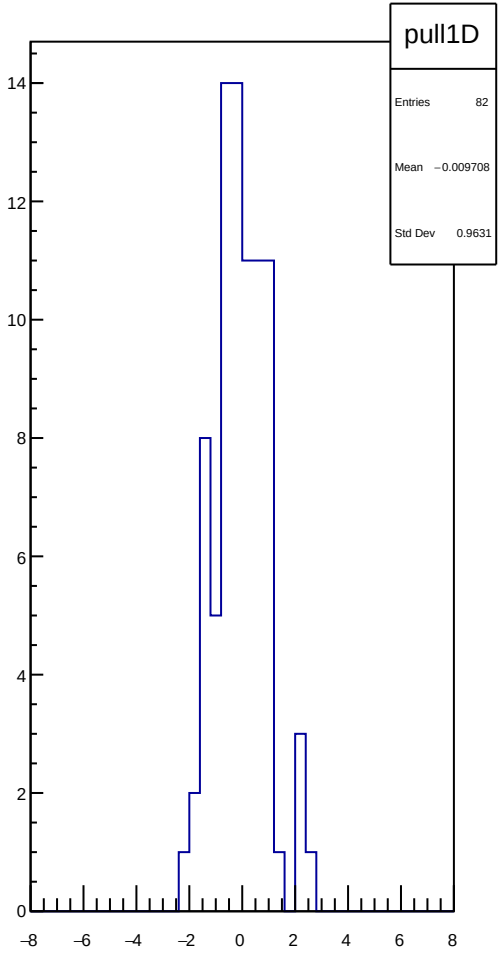

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 4325 / 81
p0 77.93 ± 0.06129
95
90
85
80
75
70

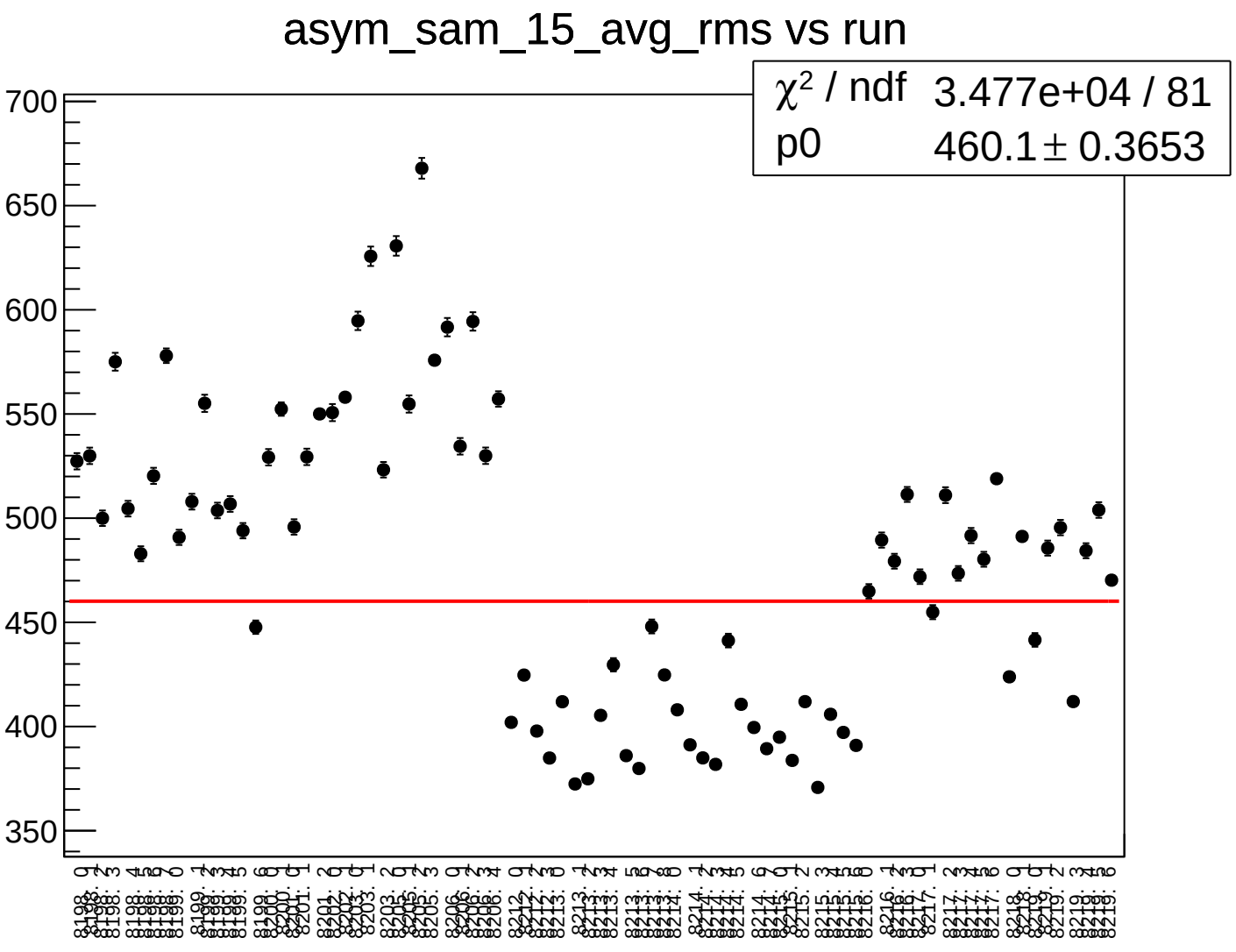

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.3 / 81
p0 −555.2 ± 508.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −399.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

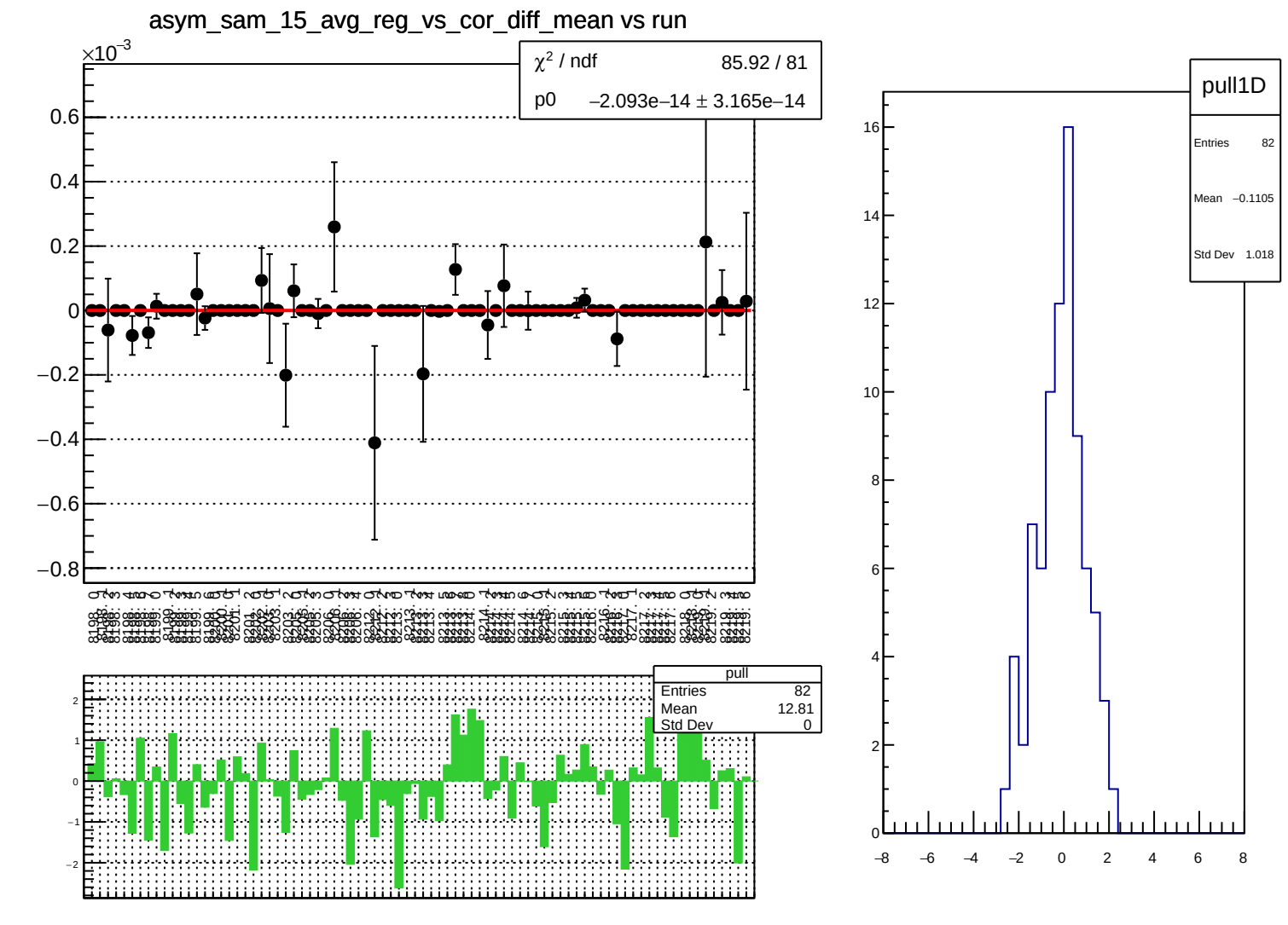

pull1D
Entries 82
Mean 0.01213
Std Dev 0.9709
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

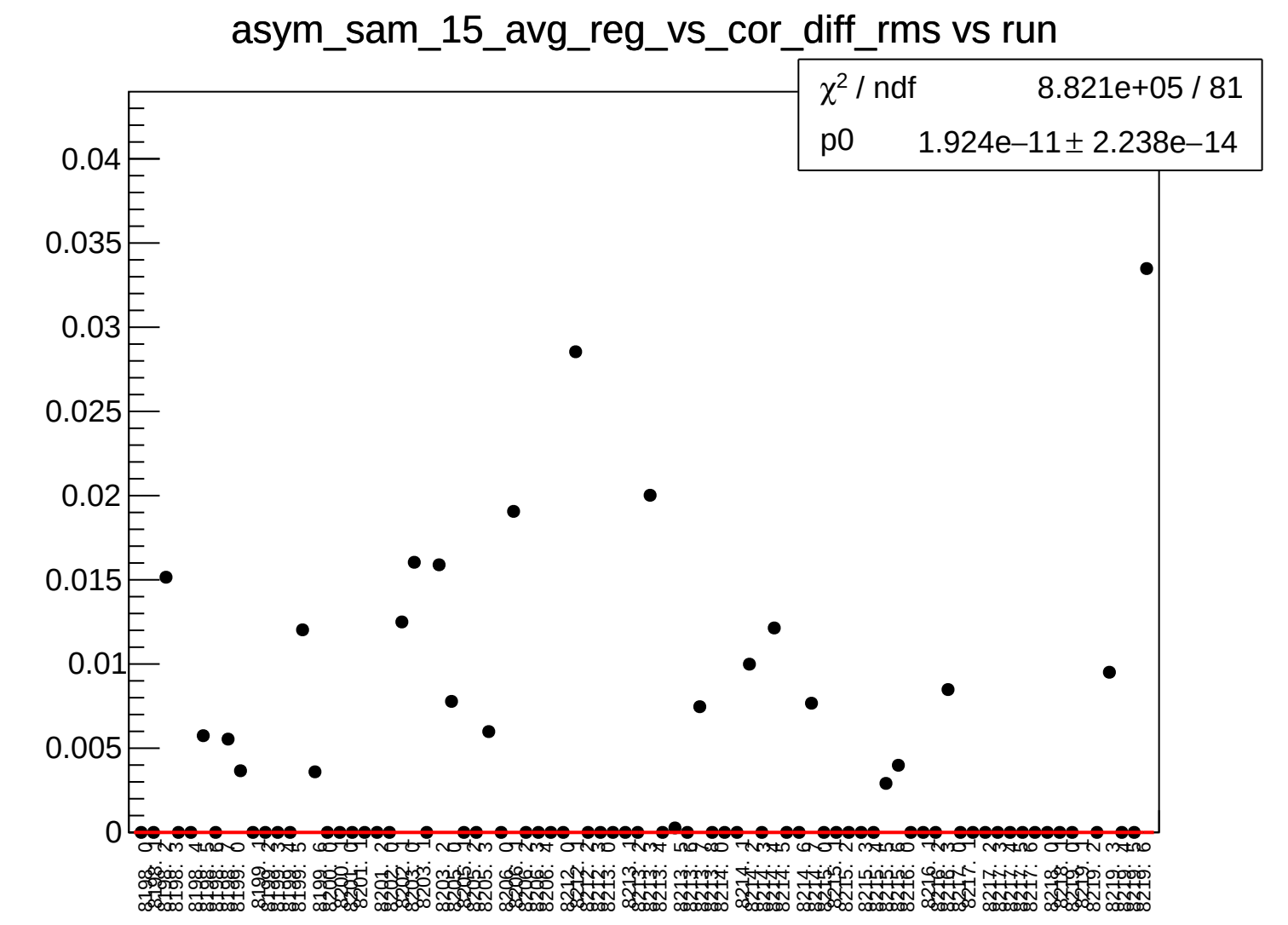

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.558e+04 / 81
p0 454.4 ± 0.3597
650
600
550
500
450
400
350

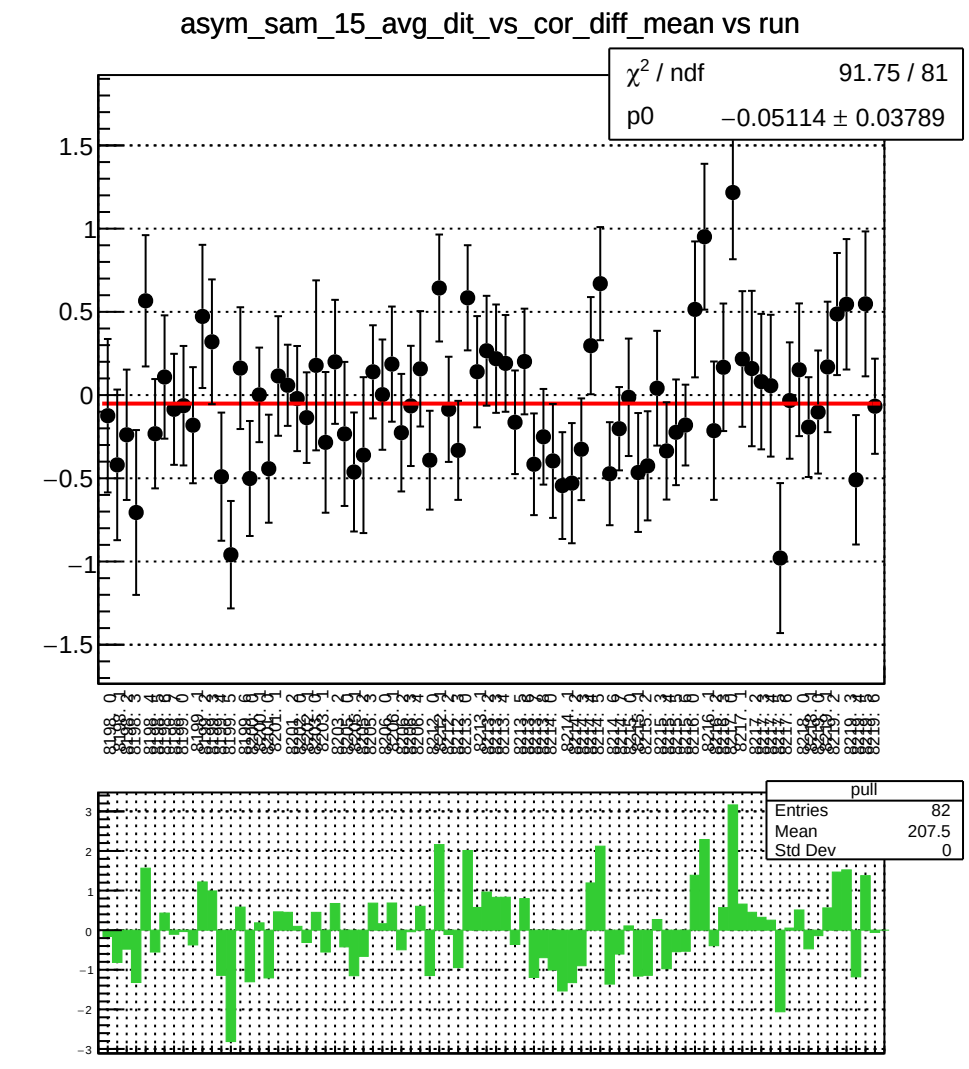

asym_sam_15_avg_mean vs run
χ² / ndf 76.07 / 81
p0 504.4 ± 516.6
pull
Entries 82
Mean −510.5
Std Dev 0

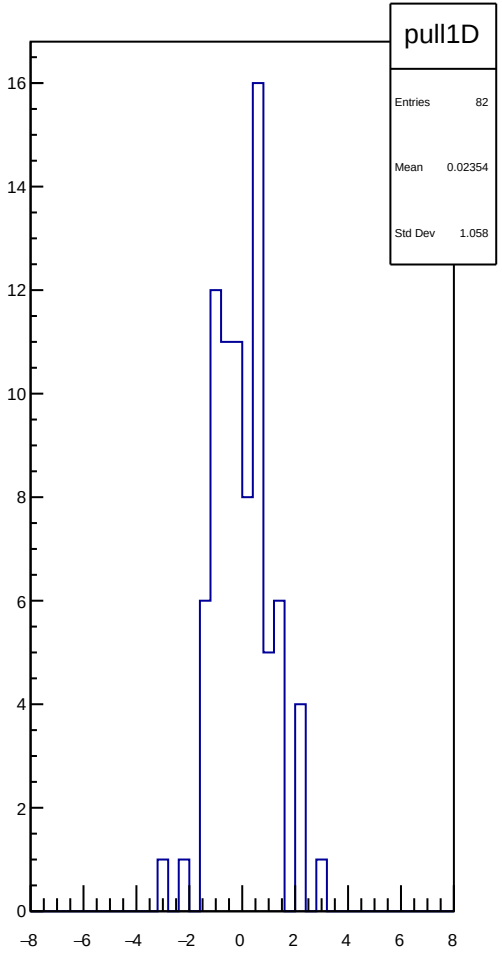

pull1D
Entries 82
Mean −0.009708
Std Dev 0.9631

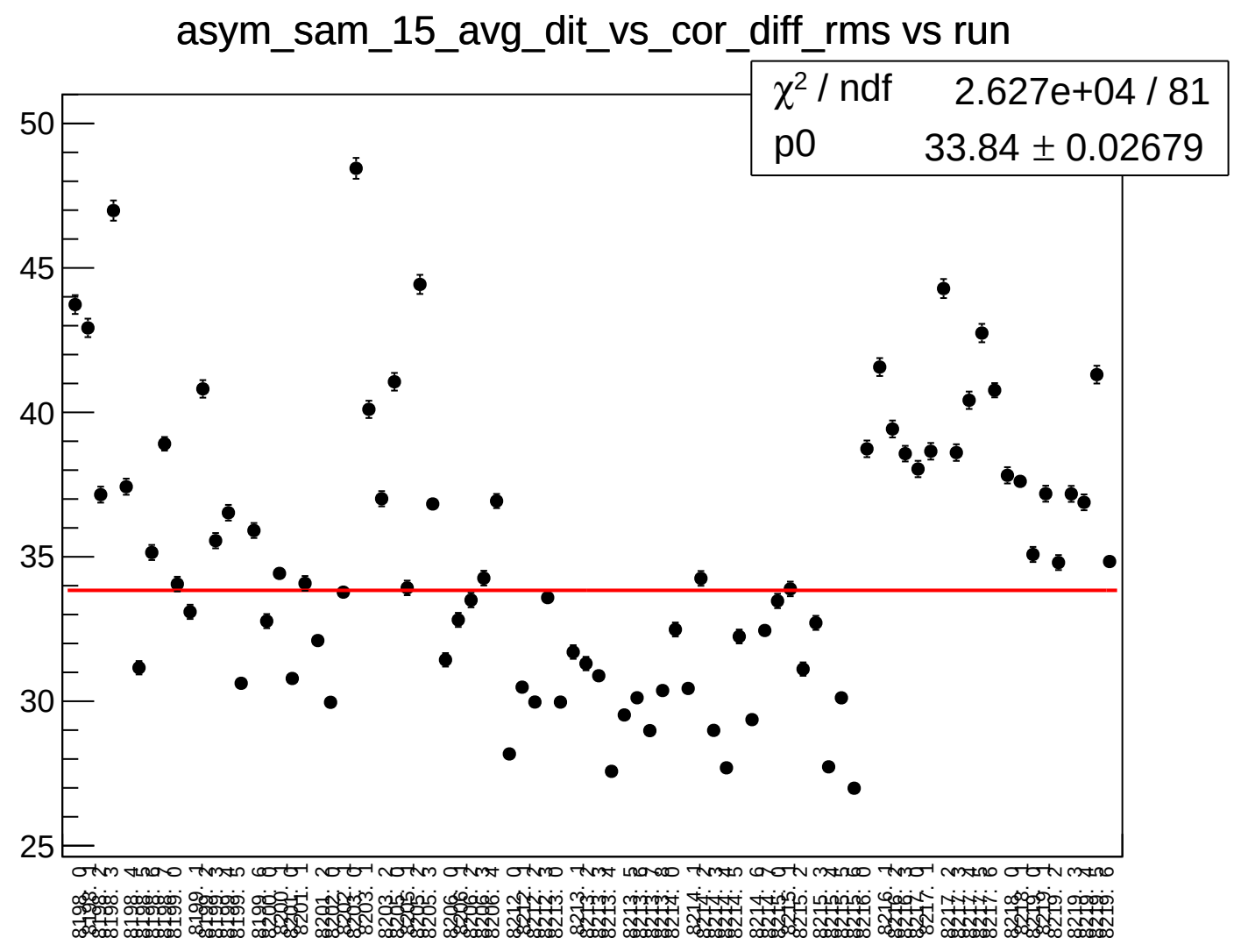

asym_sam_15_avg_rms vs run
χ² / ndf 3.477e+04 / 81
p0 460.1 ± 0.3653
700
650
600
550
500
450
400
350

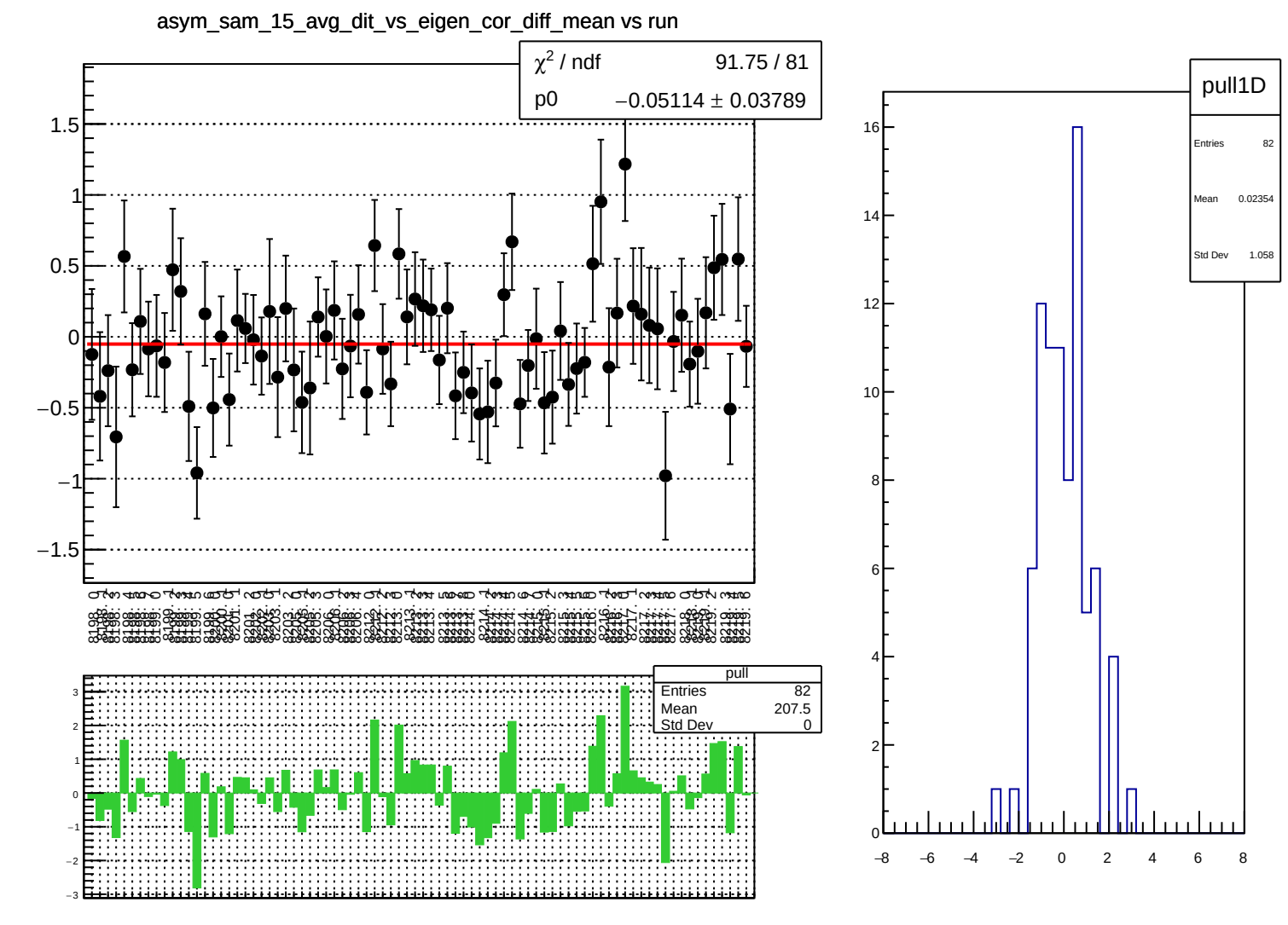

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 85.92 / 81
p0 −2.093e−14 ± 3.165e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 82
Mean 12.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.1105
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

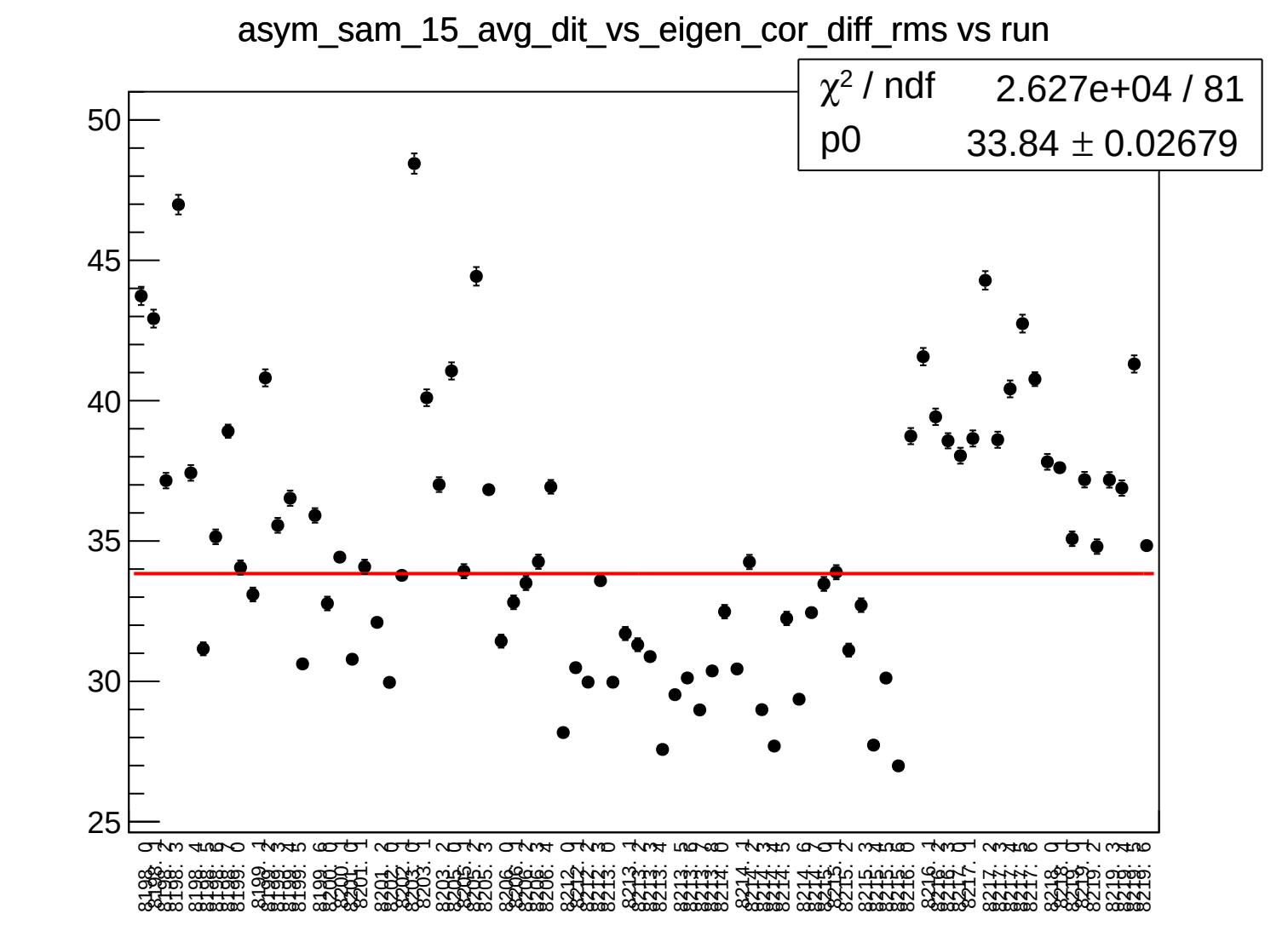

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.821e+05 / 81
p0 1.924e−11 ± 2.238e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

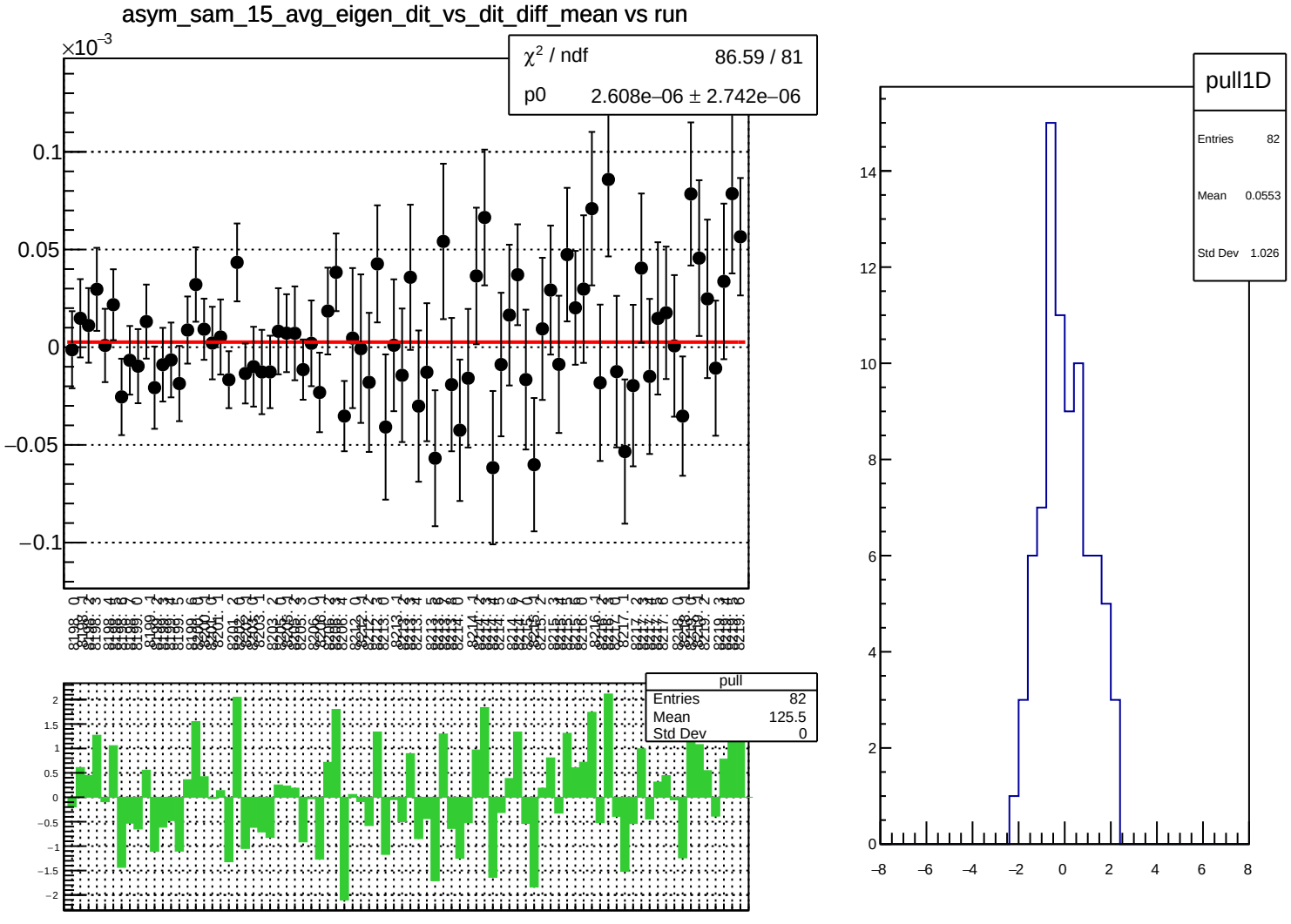

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.75 / 81
p0 −0.05114 ± 0.03789
pull
Entries 82
Mean 207.5
Std Dev 0

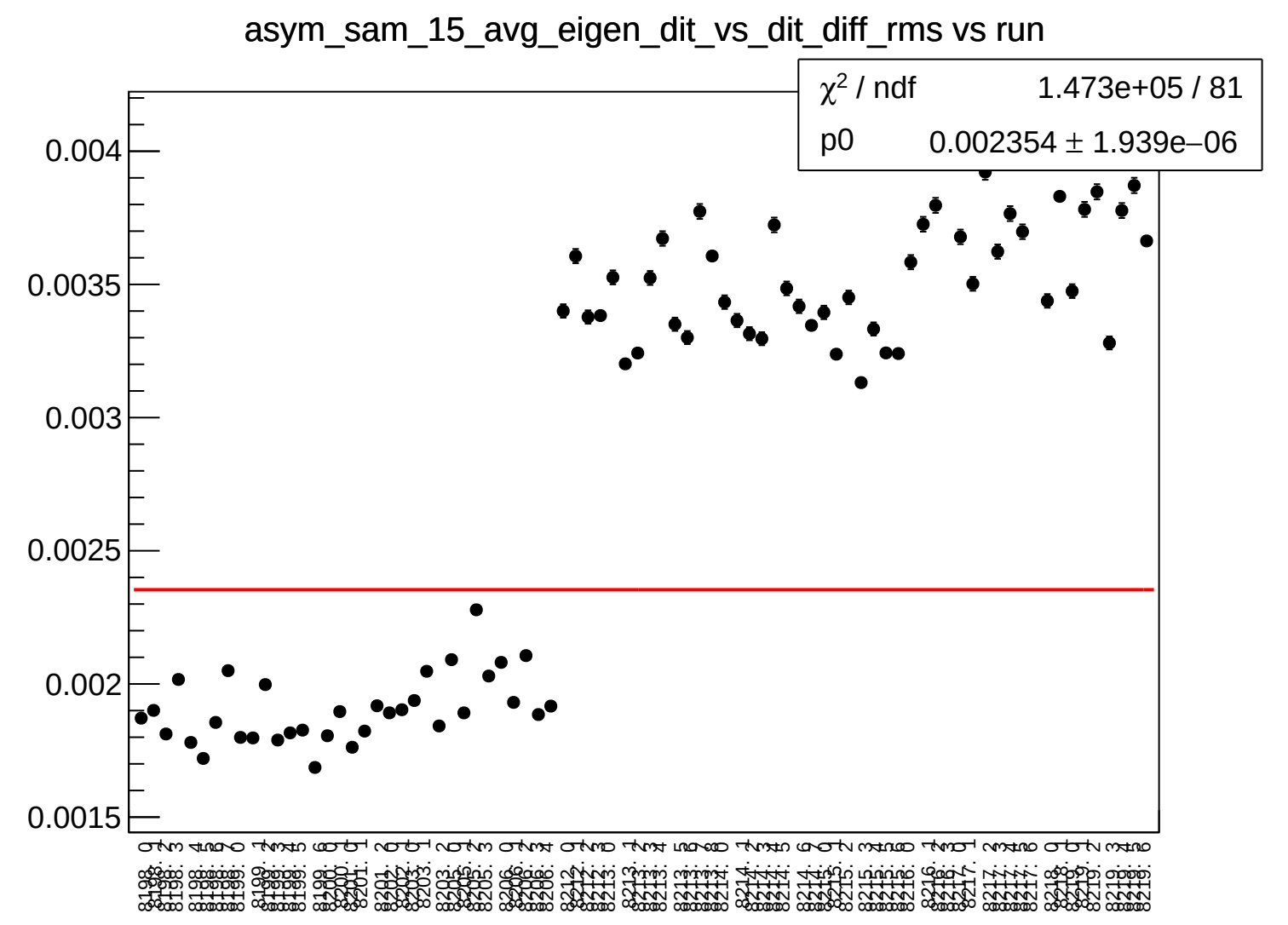

pull1D
Entries 82
Mean 0.02354
Std Dev 1.058

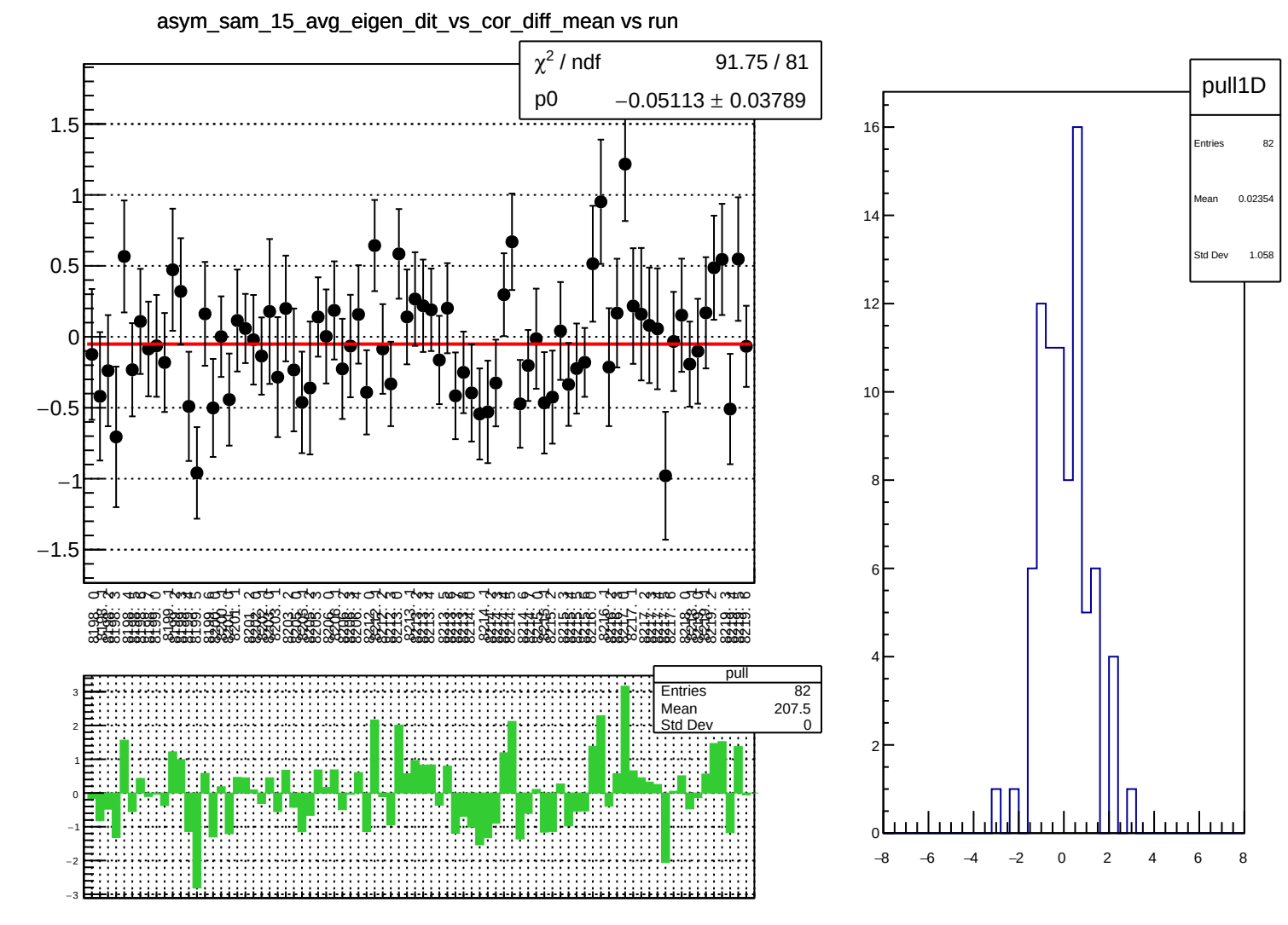

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.627e+04 / 81
p0 33.84 ± 0.02679
50
45
40
35
30
25

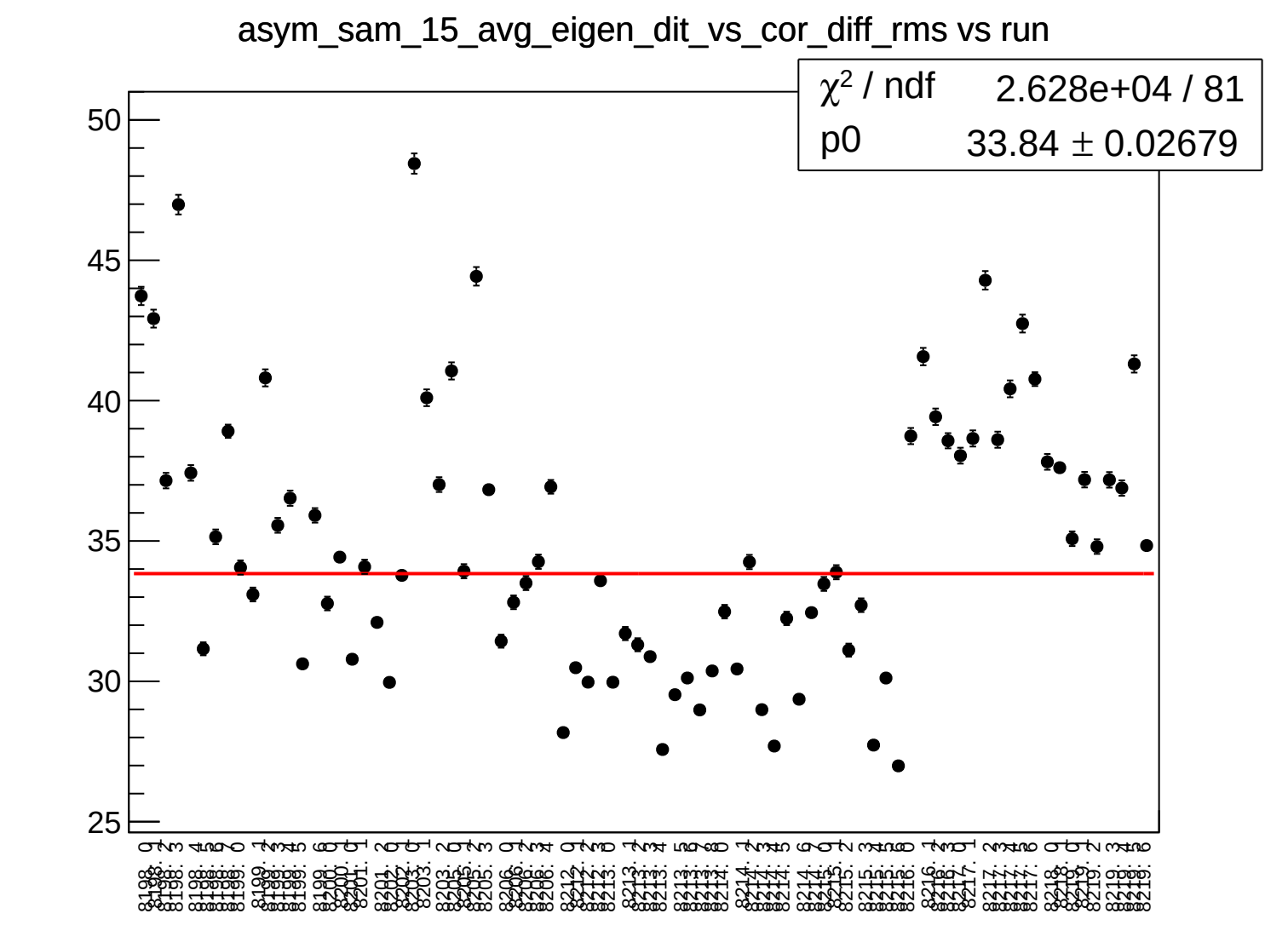

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.75 / 81
p0 −0.05114 ± 0.03789
pull
Entries 82
Mean 207.5
Std Dev 0
pull1D
Entries 82
Mean 0.02354
Std Dev 1.058

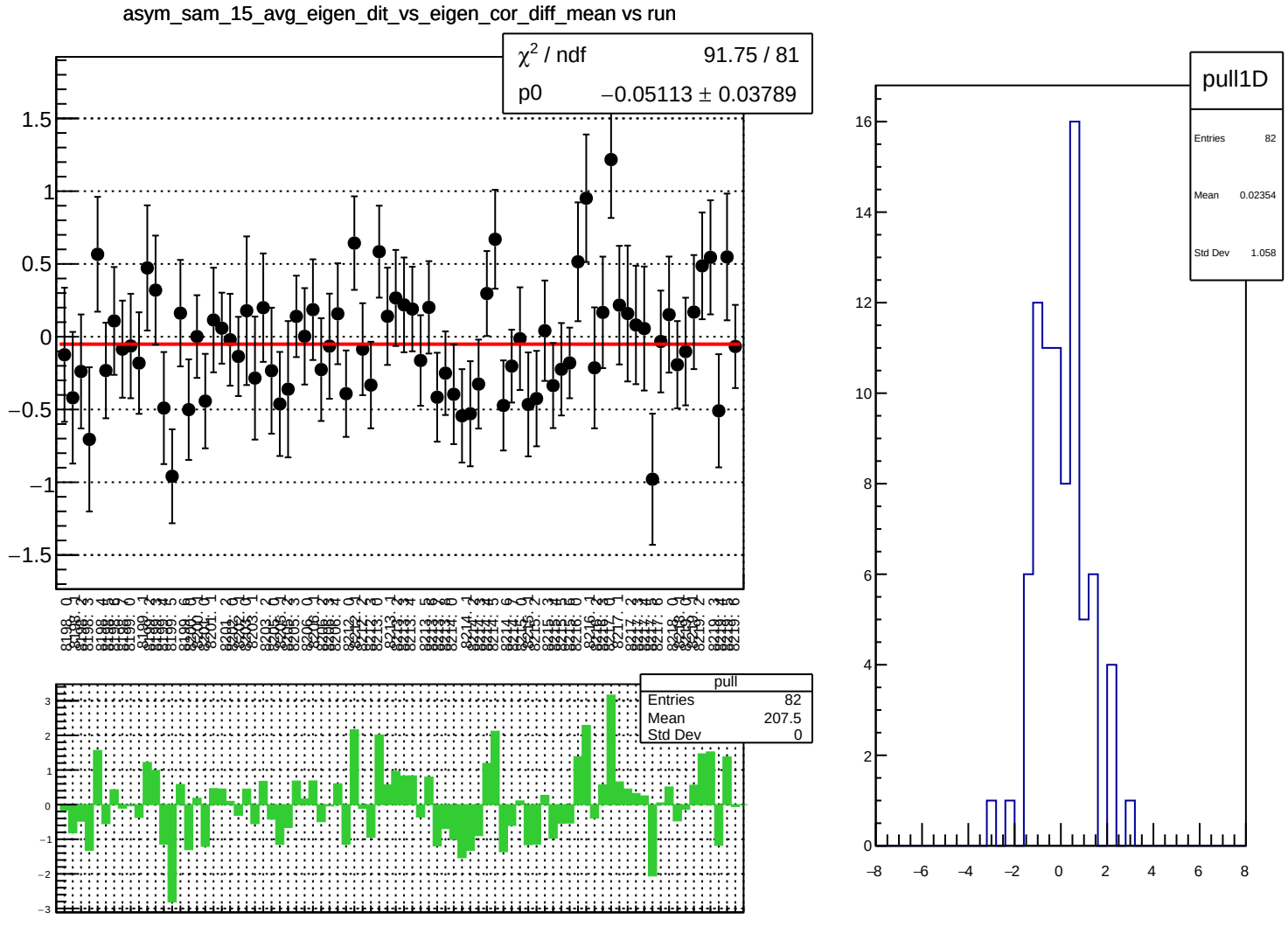

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.627e+04 / 81
p0 33.84 ± 0.02679
50
45
40
35
30
25

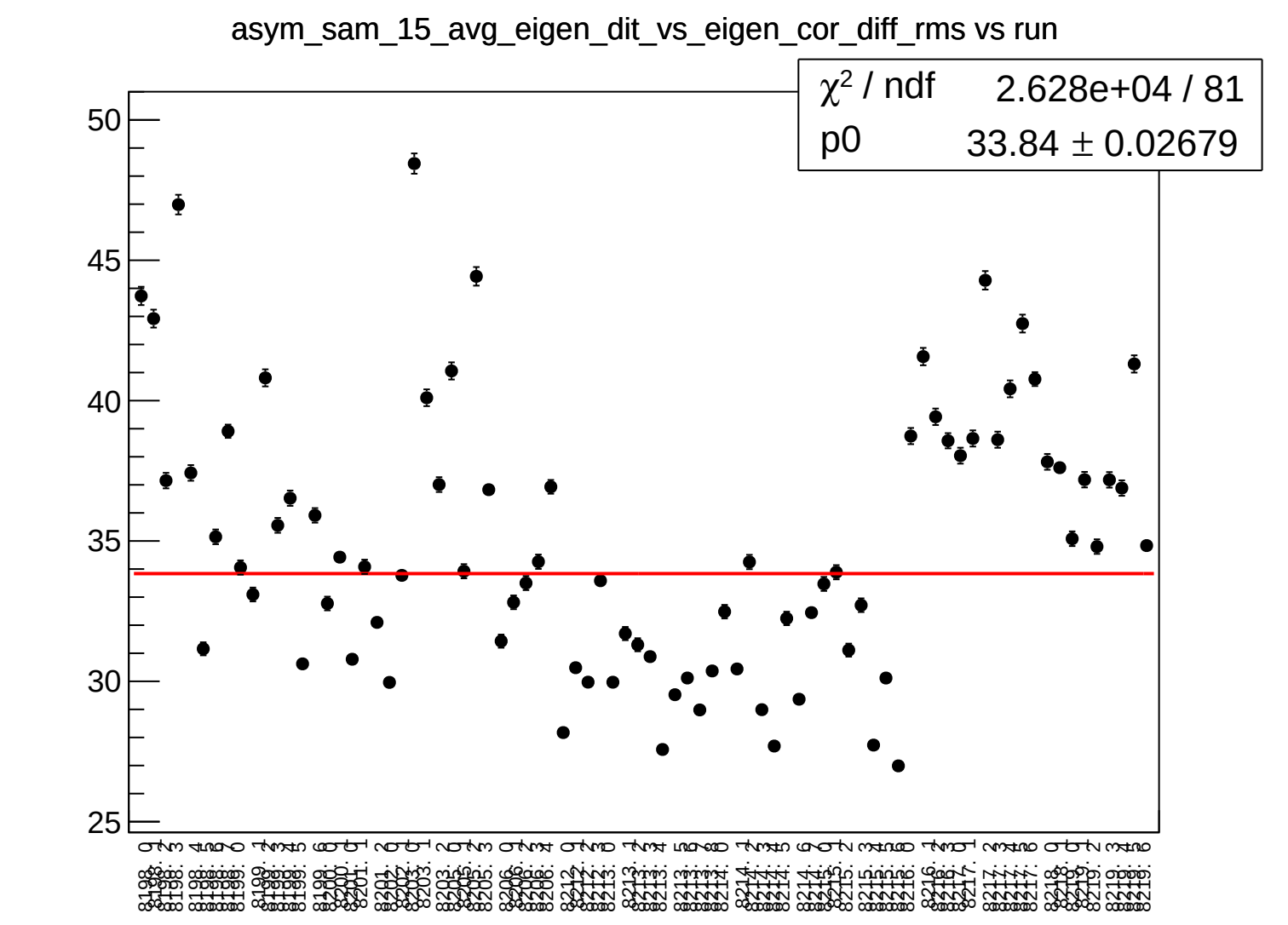

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.59 / 81
p0 2.608e−06 ± 2.742e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean 125.5
Std Dev 0
pull1D
Entries 82
Mean 0.0553
Std Dev 1.026

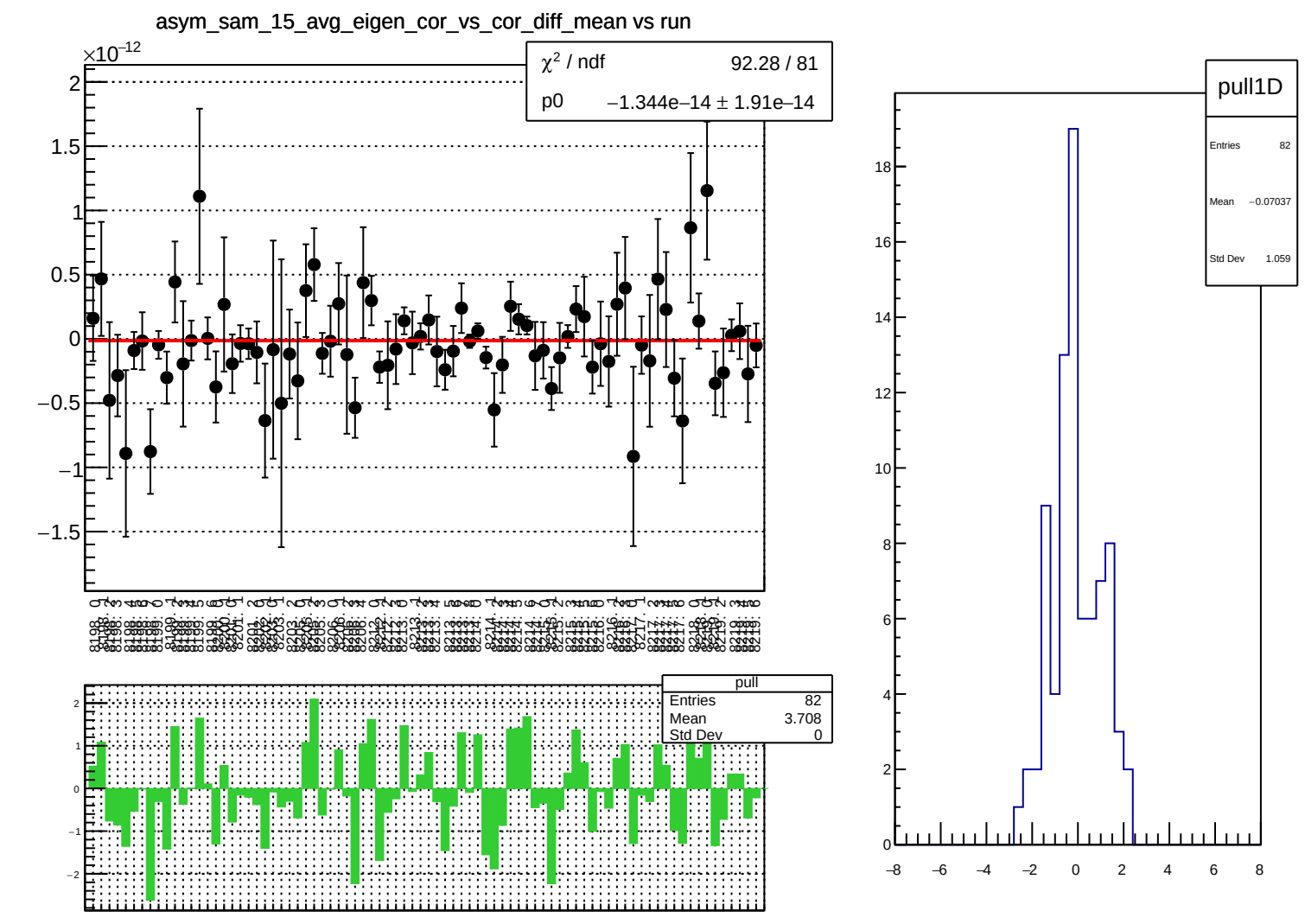

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.473e+05 / 81
p0 0.002354 ± 1.939e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

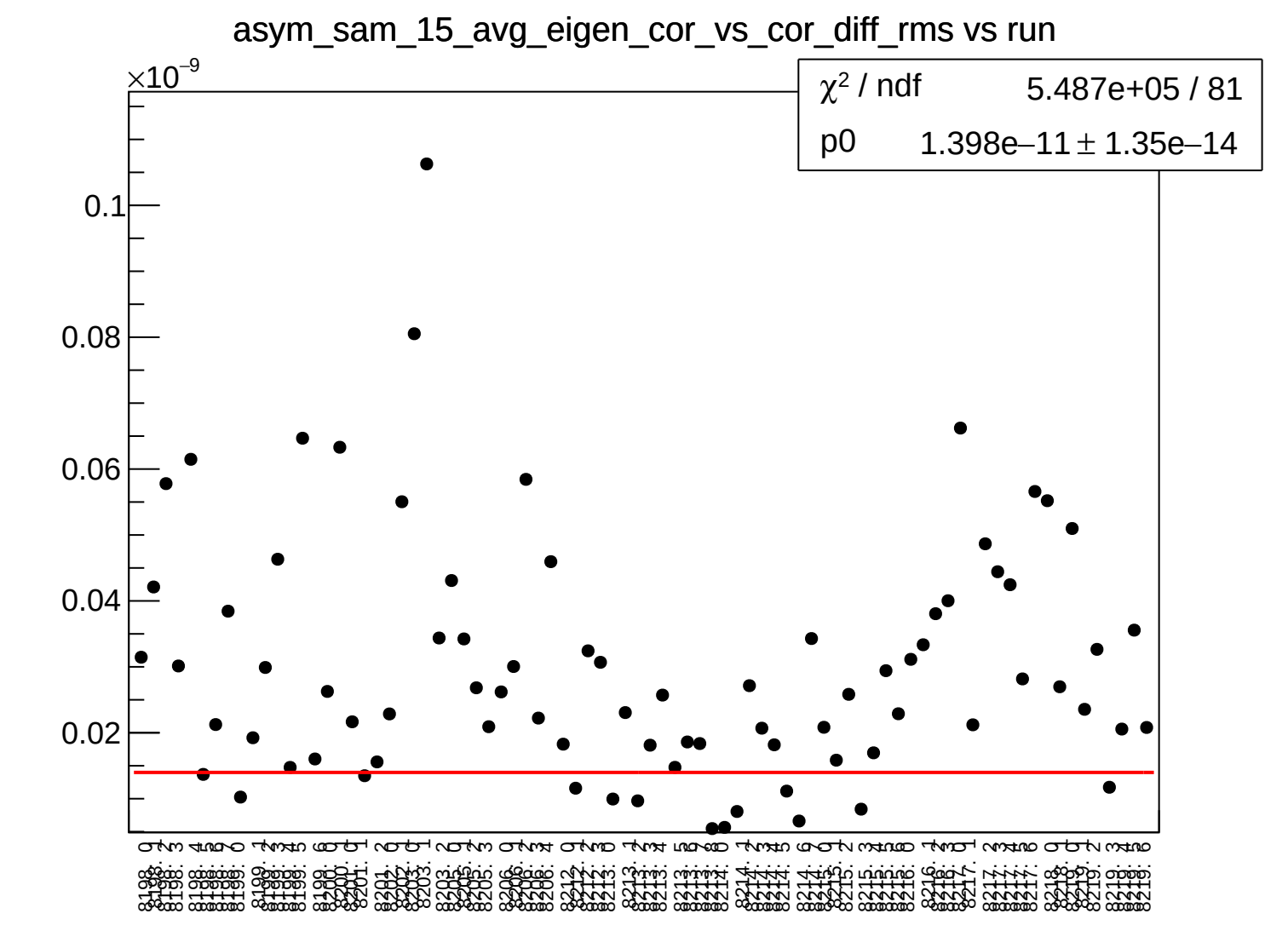

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.75 / 81
p0 −0.05113 ± 0.03789
pull
Entries 82
Mean 207.5
Std Dev 0
pull1D
Entries 82
Mean 0.02354
Std Dev 1.058

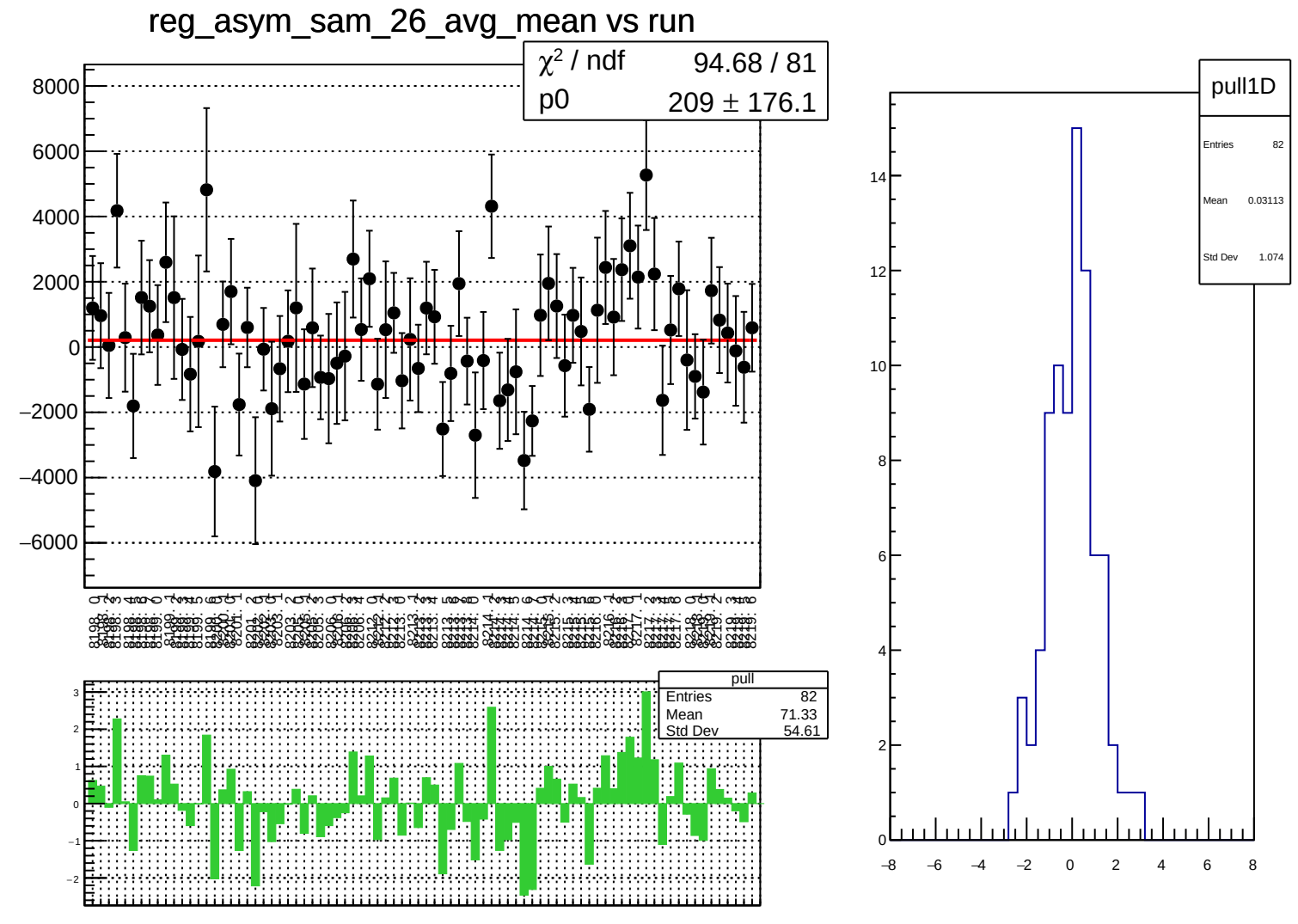

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.628e+04 / 81
p0 33.84 ± 0.02679
50
45
40
35
30
25

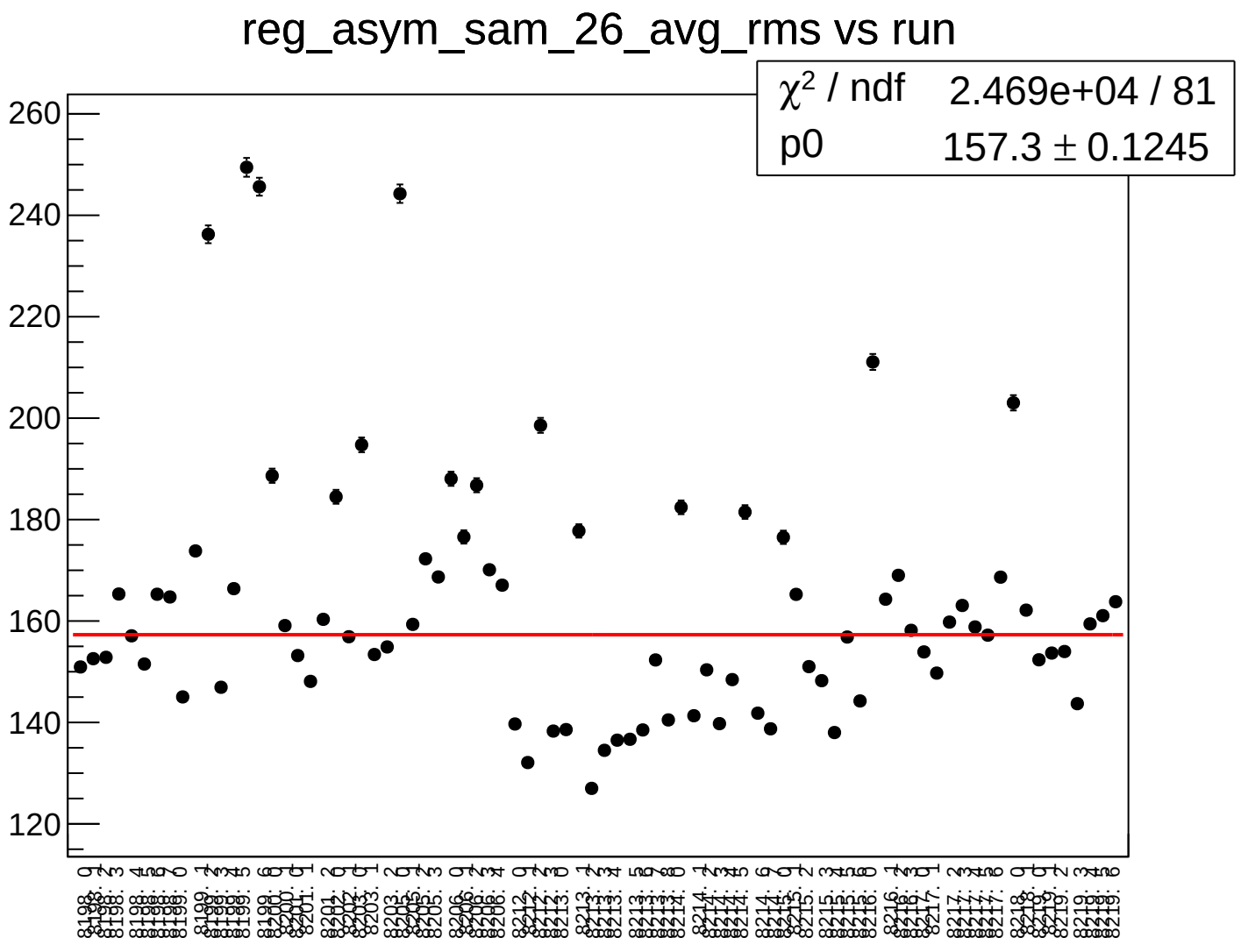

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.75 / 81
p0 −0.05113 ± 0.03789
pull
Entries 82
Mean 207.5
Std Dev 0
pull1D
Entries 82
Mean 0.02354
Std Dev 1.058

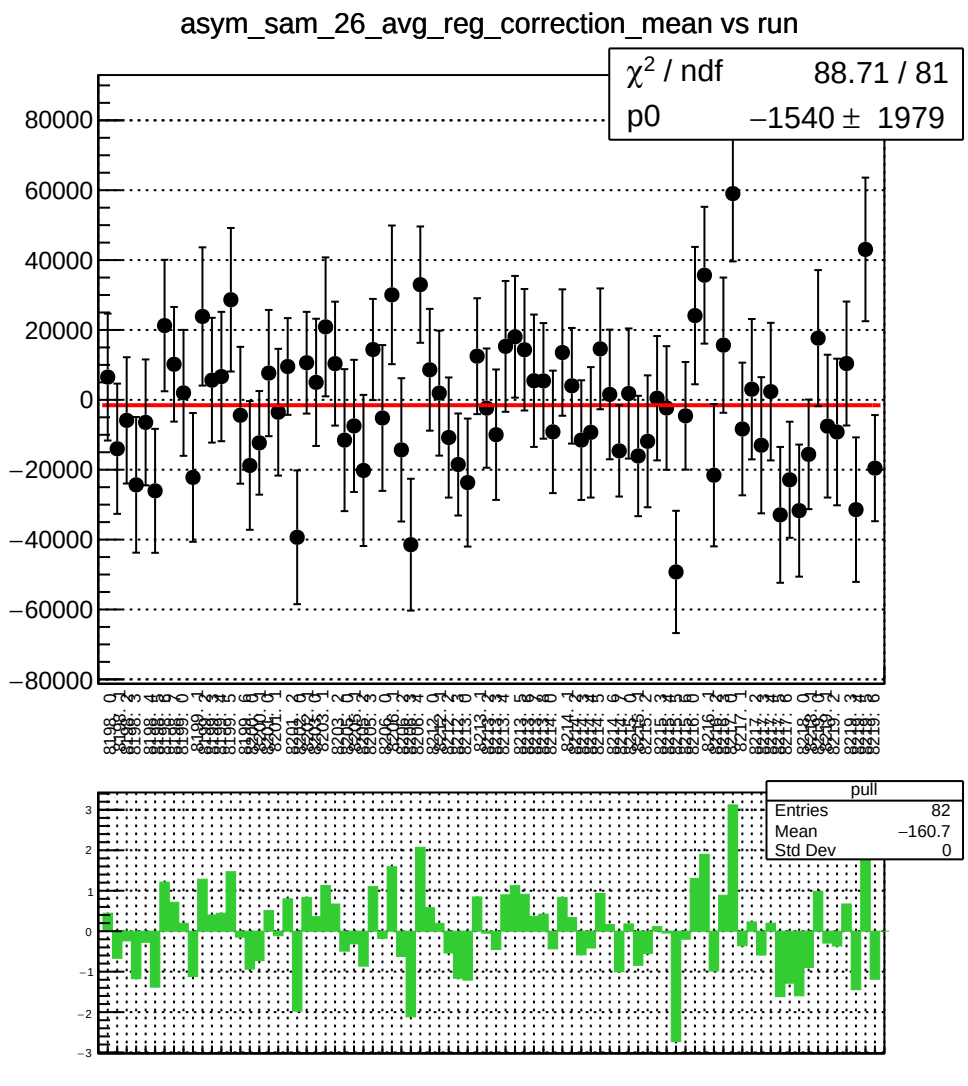

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.628e+04 / 81
p0 33.84 ± 0.02679
50
45
40
35
30
25

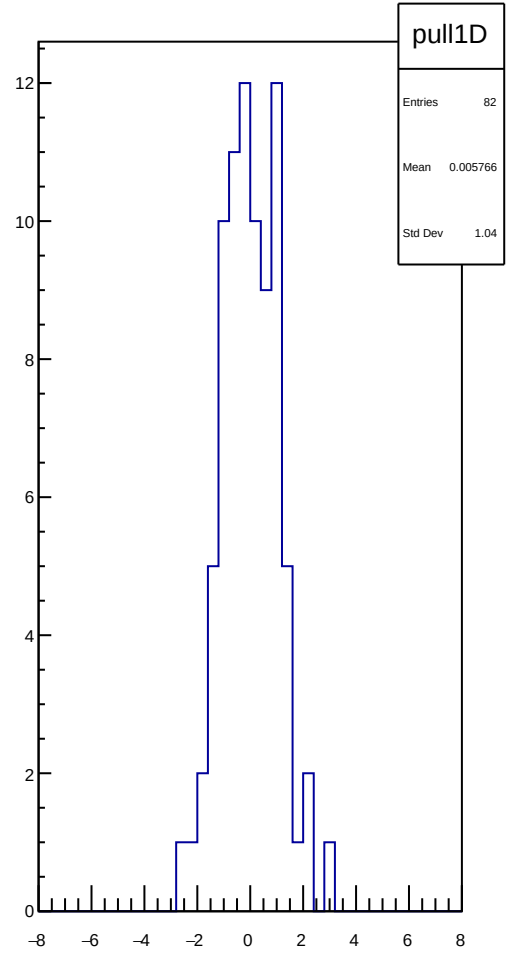

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.28 / 81
p0 −1.344e−14 ± 1.91e−14
pull
Entries 82
Mean 3.708
Std Dev 0
pull1D
Entries 82
Mean −0.07037
Std Dev 1.059

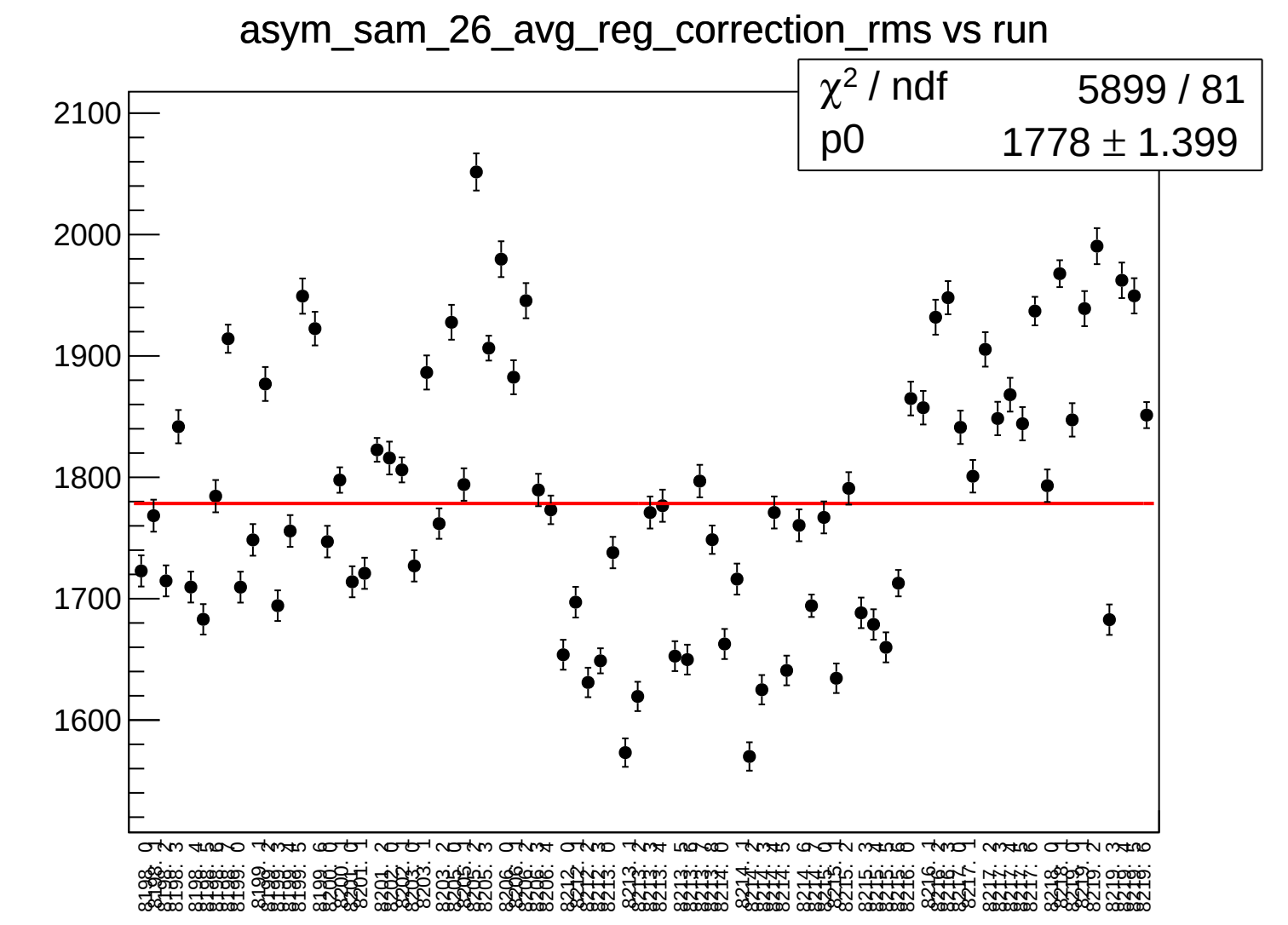

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.487e+05 / 81
p0 1.398e−11 ± 1.35e−14
0.1
0.08
0.06
0.04
0.02

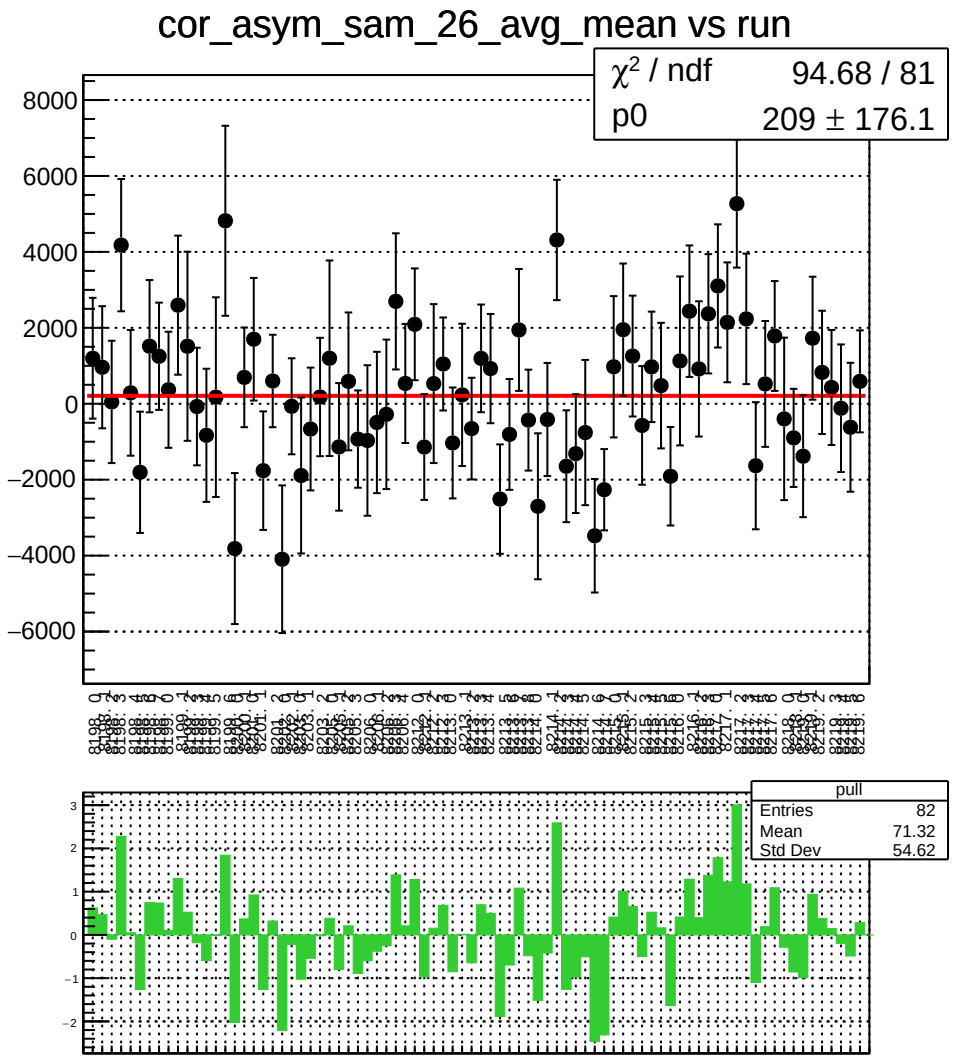

reg_asym_sam_26_avg_mean vs run
χ² / ndf 94.68 / 81
p0 209 ± 176.1
pull
Entries 82
Mean 71.33
Std Dev 54.61
pull1D
Entries 82
Mean 0.03113
Std Dev 1.074

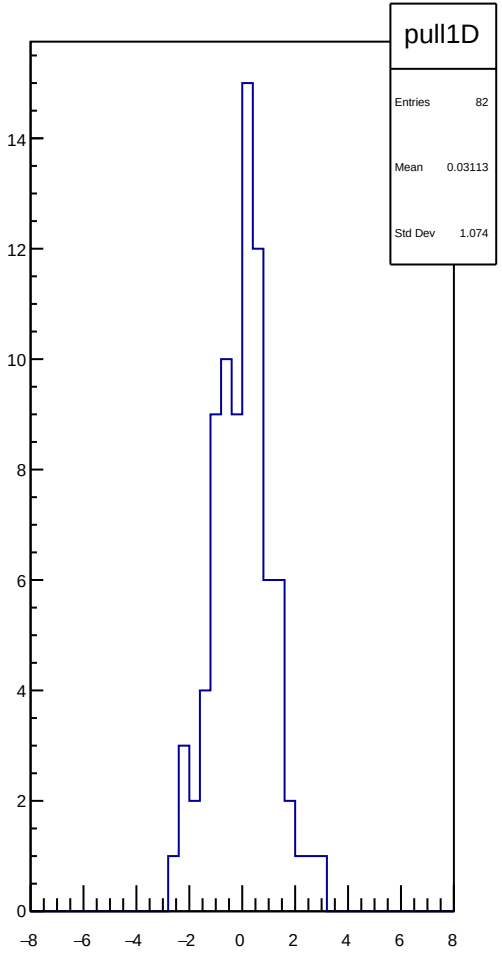

reg_asym_sam_26_avg_rms vs run
χ² / ndf 2.469e+04 / 81
p0 157.3 ± 0.1245
260
240
220
200
180
160
140
120

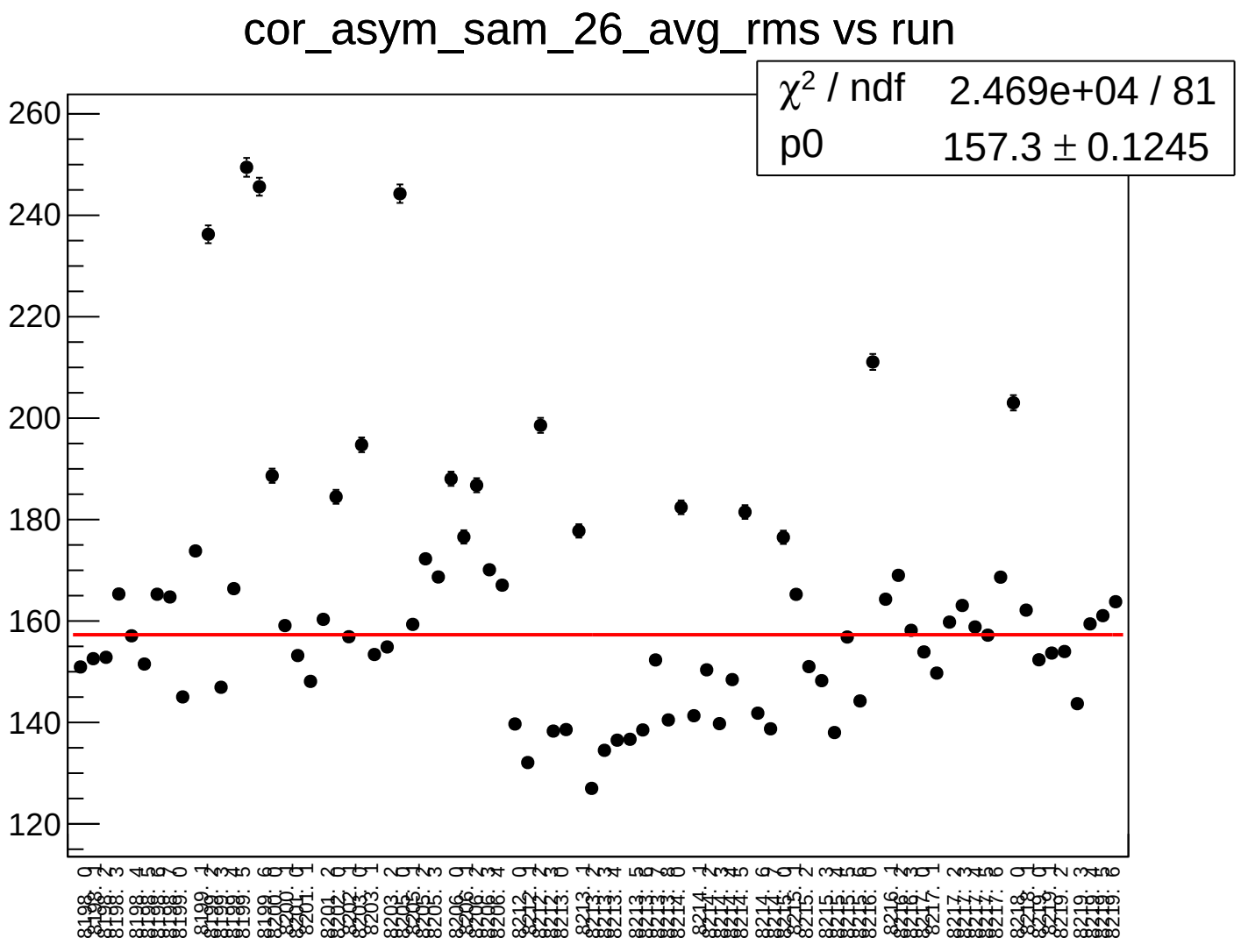

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 88.71 / 81
p0 −1540 ± 1979
pull
Entries 82
Mean −160.7
Std Dev 0

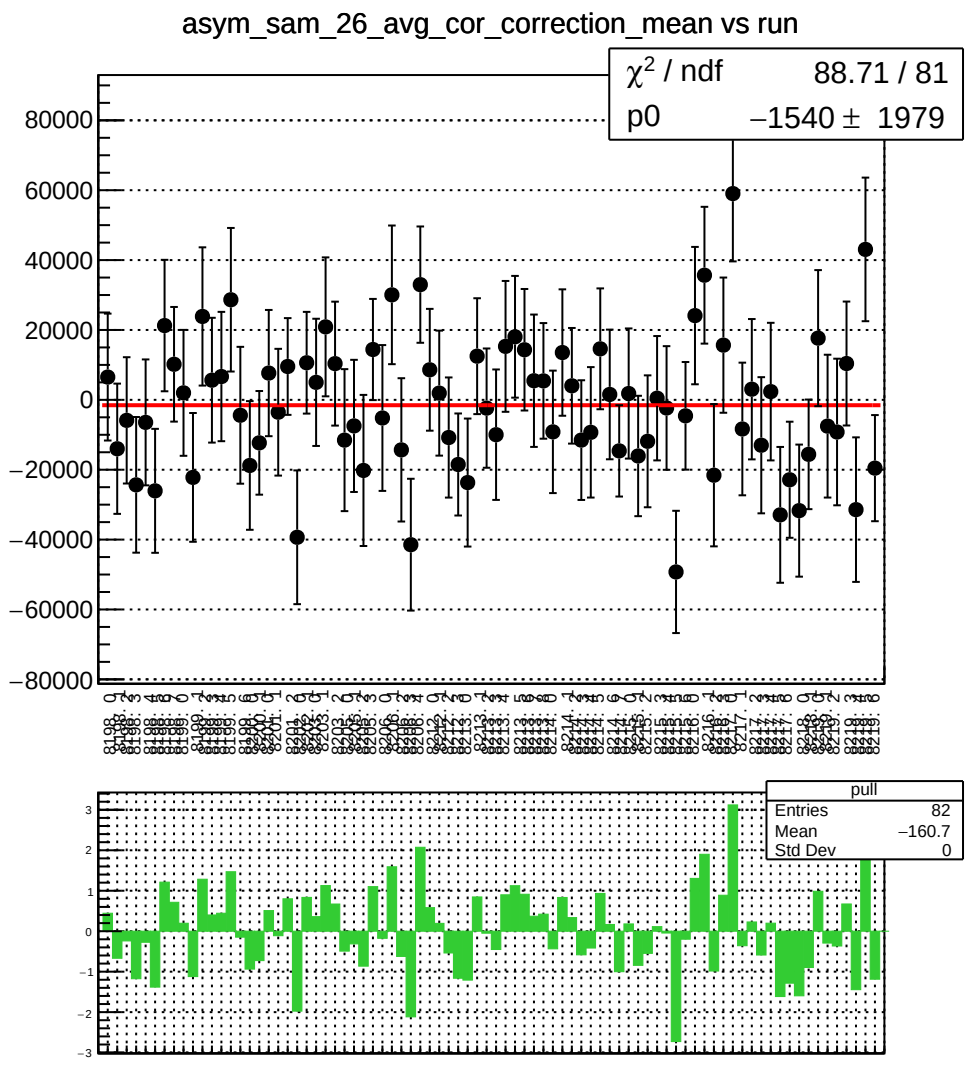

pull1D
Entries 82
Mean 0.005766
Std Dev 1.04

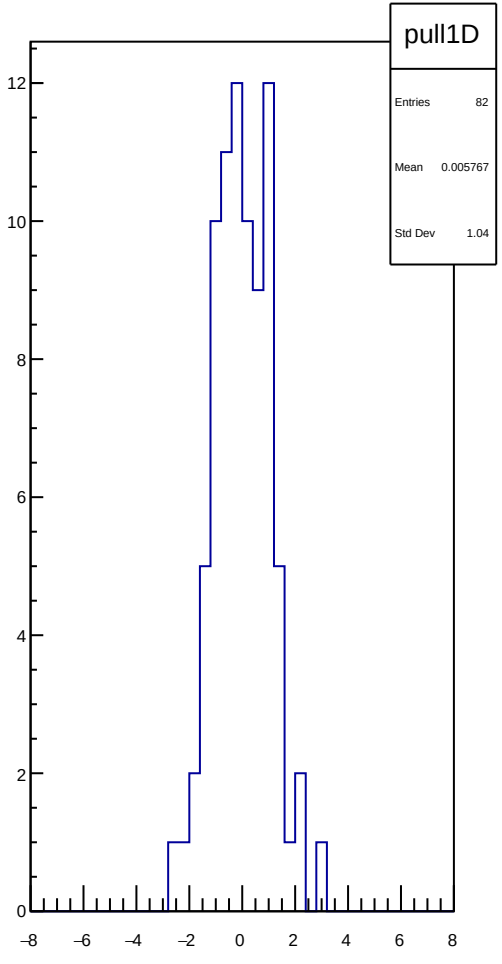

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 5899 / 81
p0 1778 ± 1.399
2100
2000
1900
1800
1700
1600

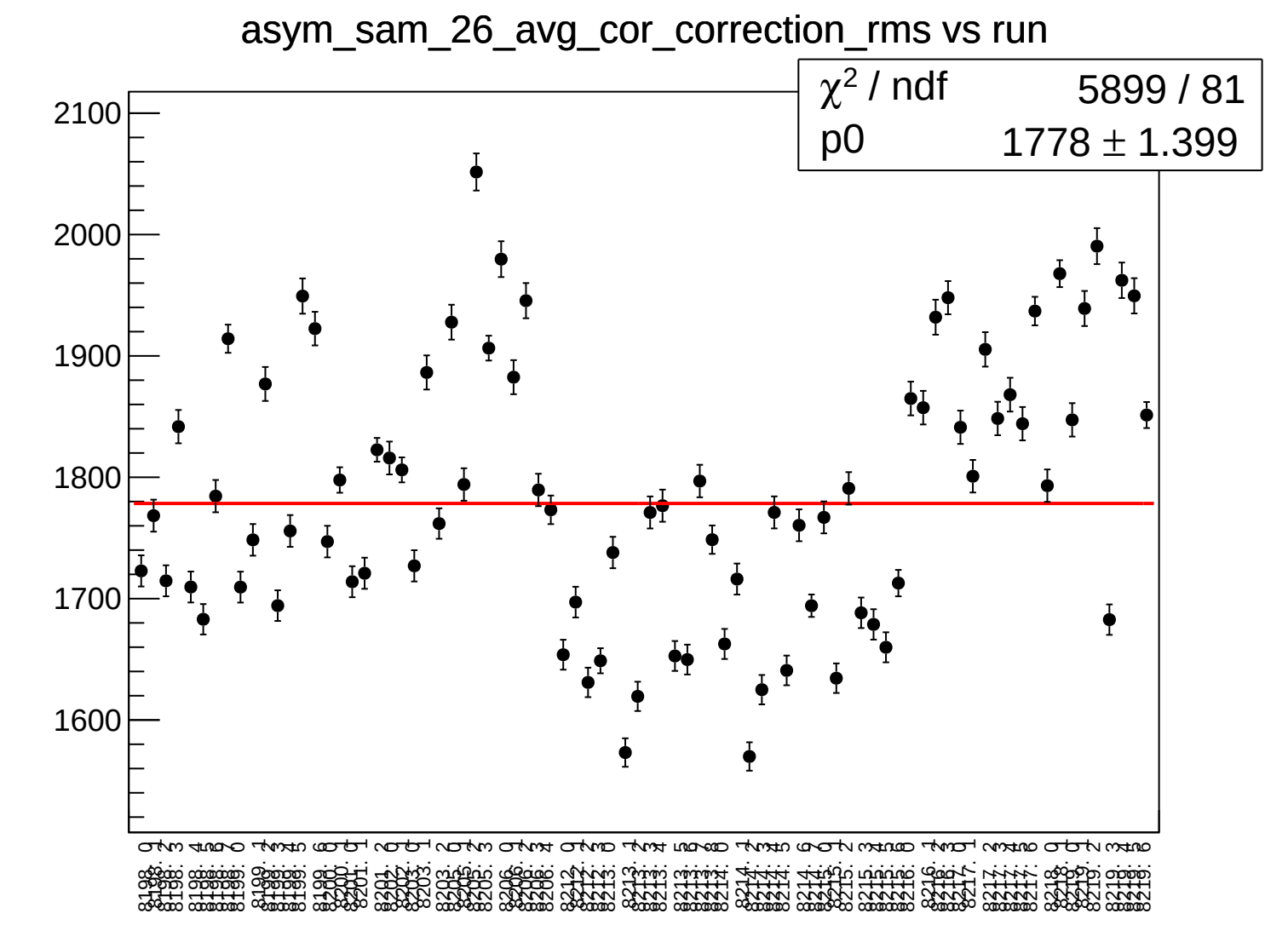

cor_asym_sam_26_avg_mean vs run
χ² / ndf 94.68 / 81
p0 209 ± 176.1
pull
Entries 82
Mean 71.32
Std Dev 54.62

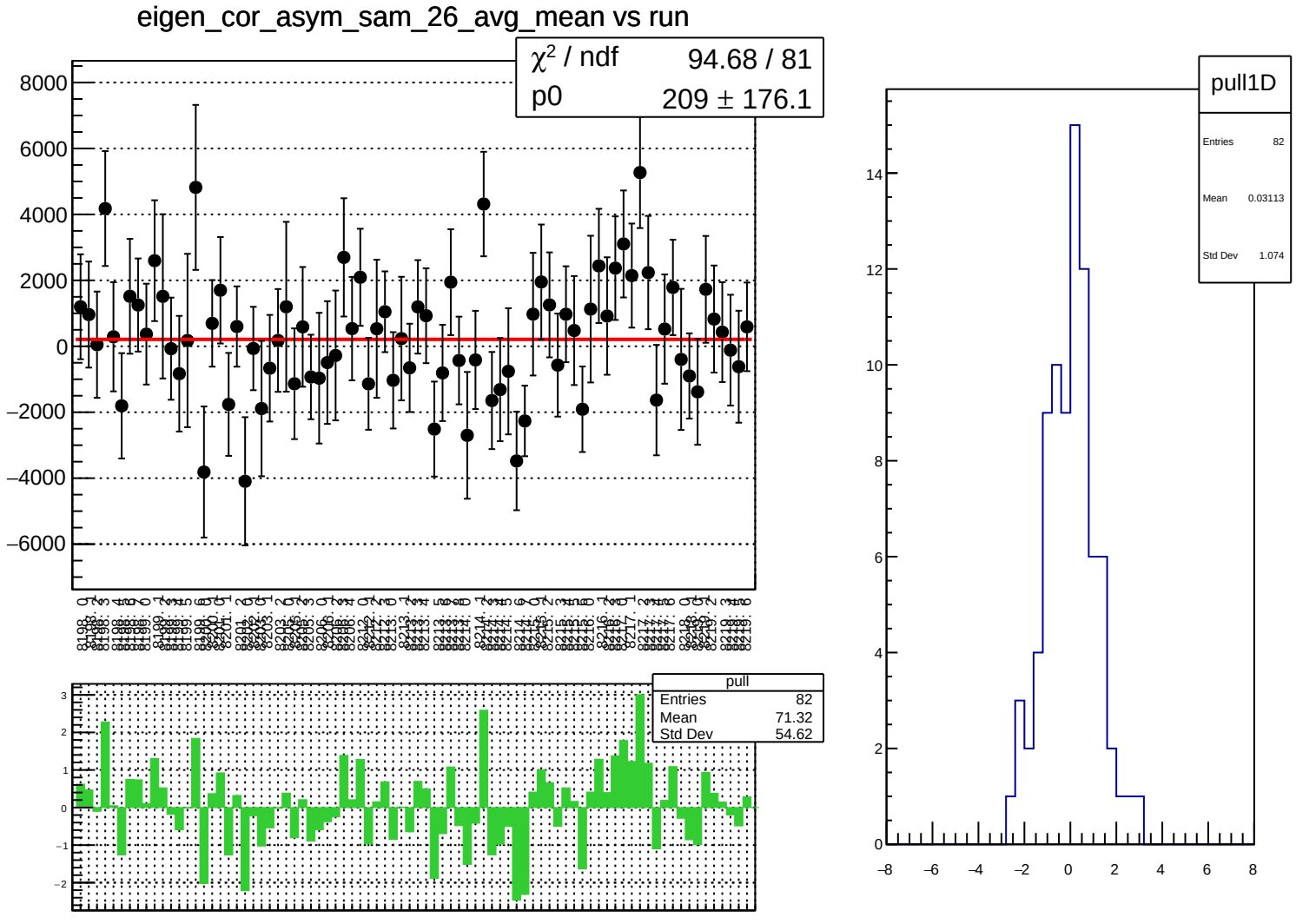

pull1D
Entries 82
Mean 0.03113
Std Dev 1.074

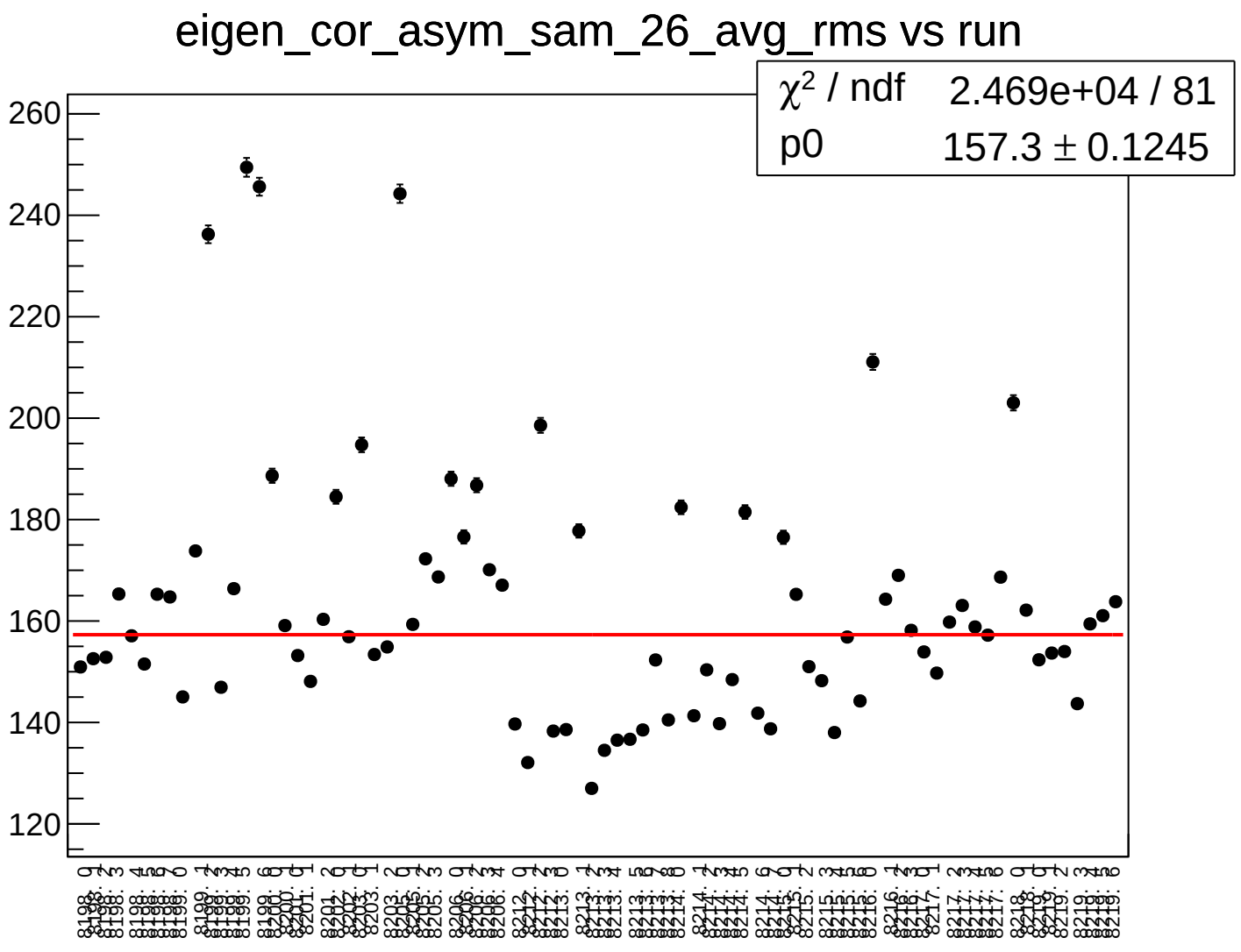

cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.469e+04 / 81
p0 157.3 ± 0.1245
260
240
220
200
180
160
140
120

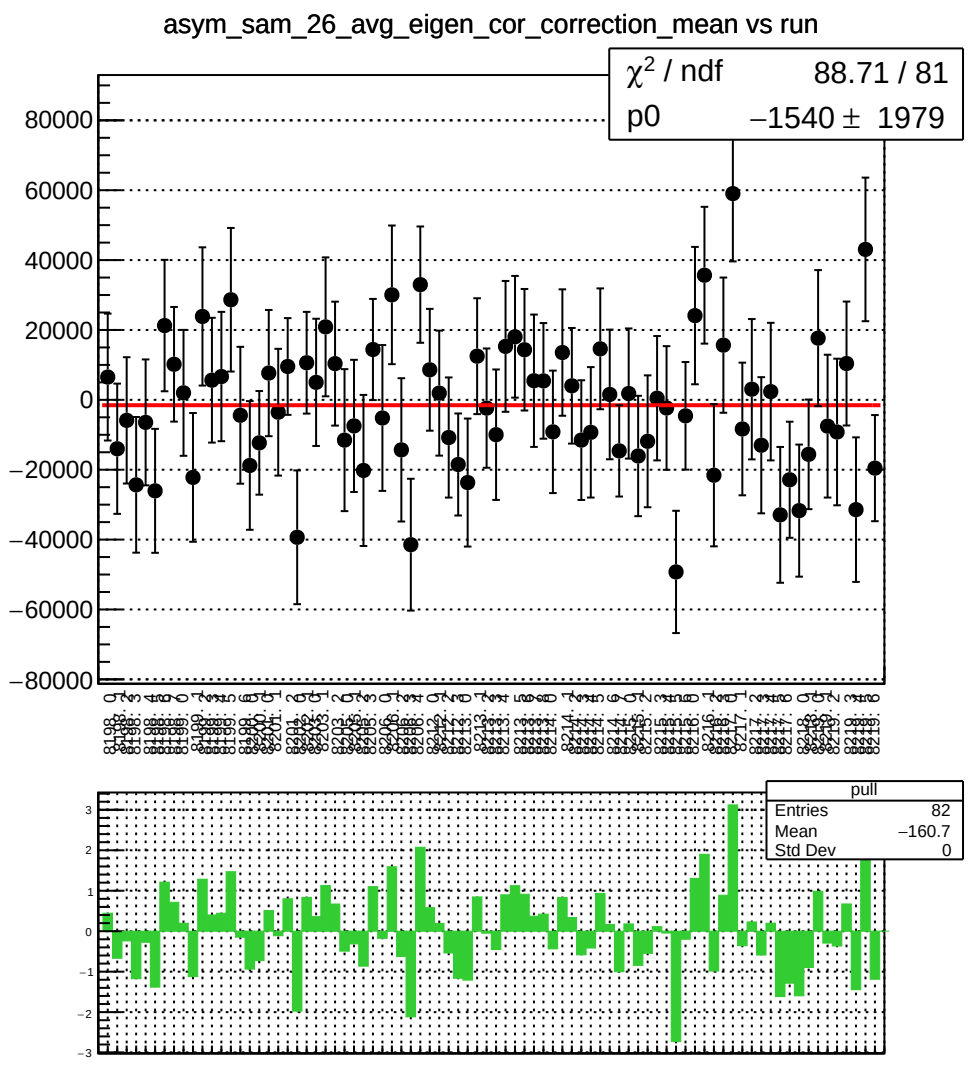

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 88.71 / 81
p0 −1540 ± 1979
pull
Entries 82
Mean −160.7
Std Dev 0

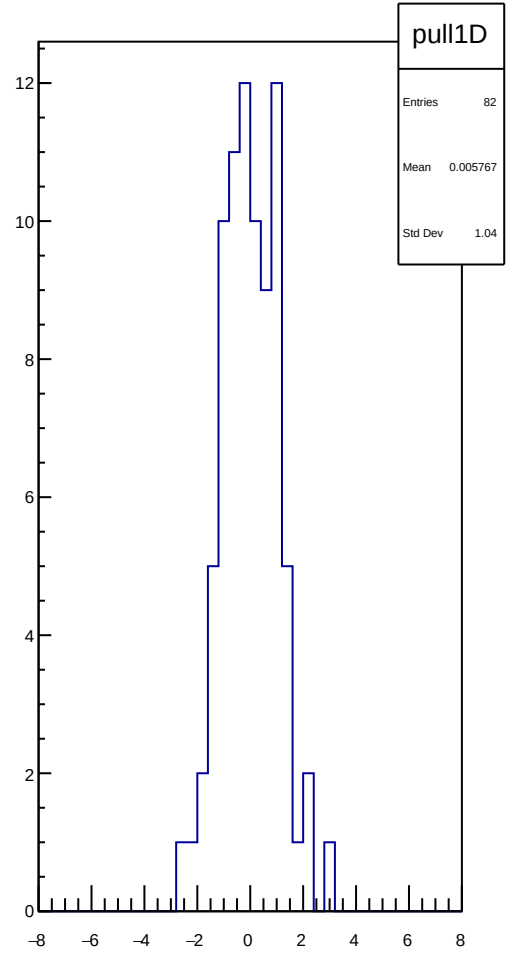

pull1D
Entries 82
Mean 0.005767
Std Dev 1.04

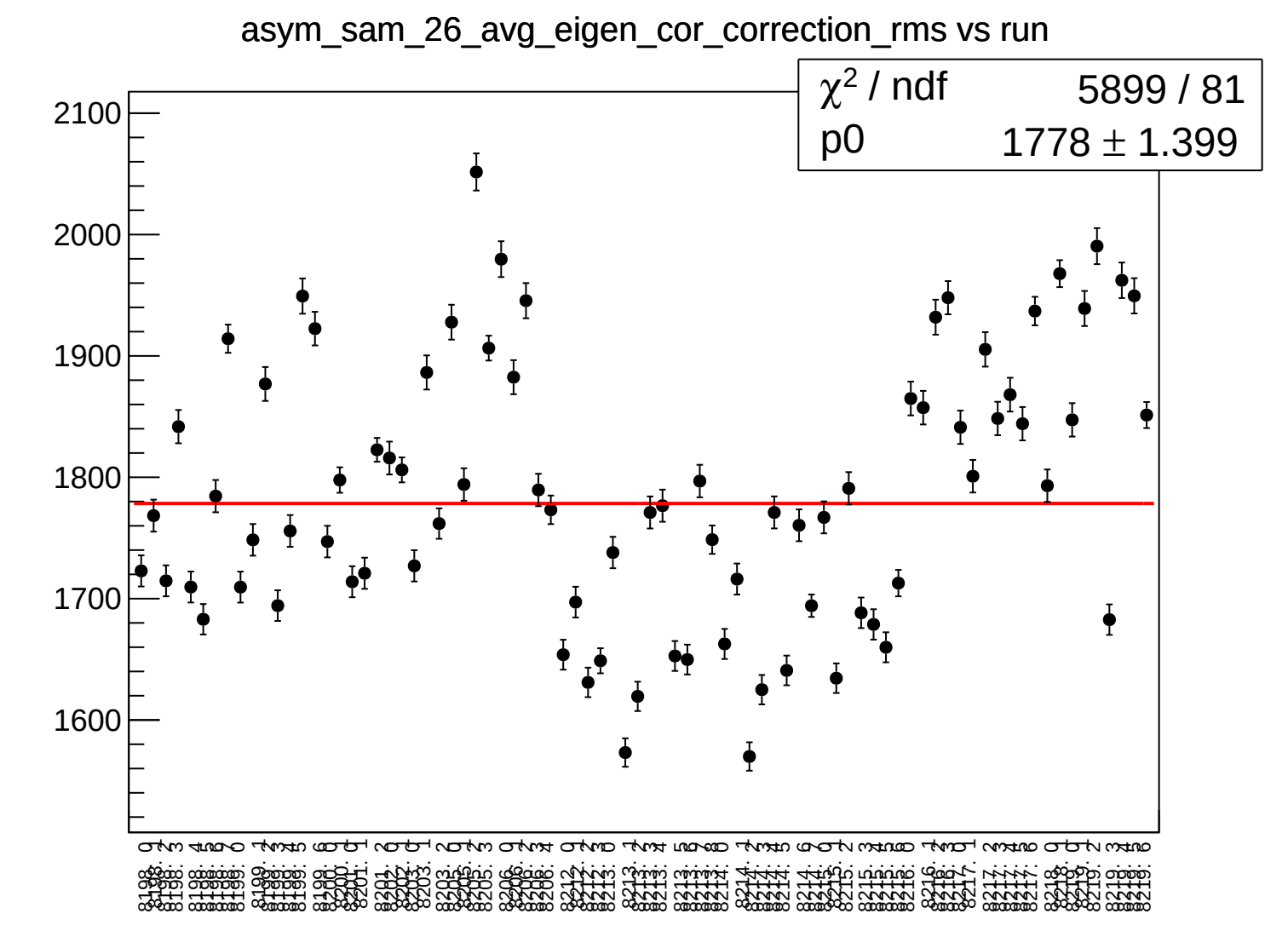

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 5899 / 81
p0 1778 ± 1.399
2100
2000
1900
1800
1700
1600

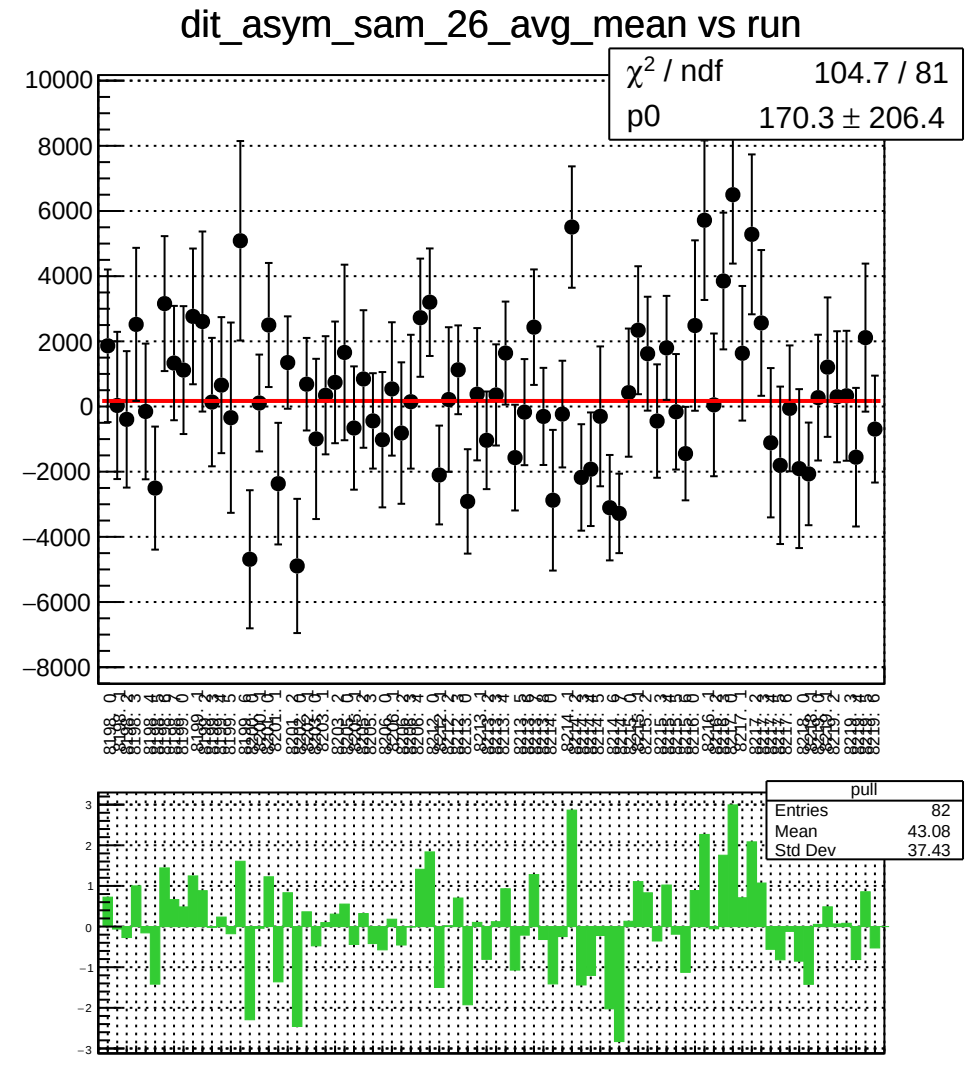

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 94.68 / 81
p0 209 ± 176.1
pull
Entries 82
Mean 71.32
Std Dev 54.62
pull1D
Entries 82
Mean 0.03113
Std Dev 1.074

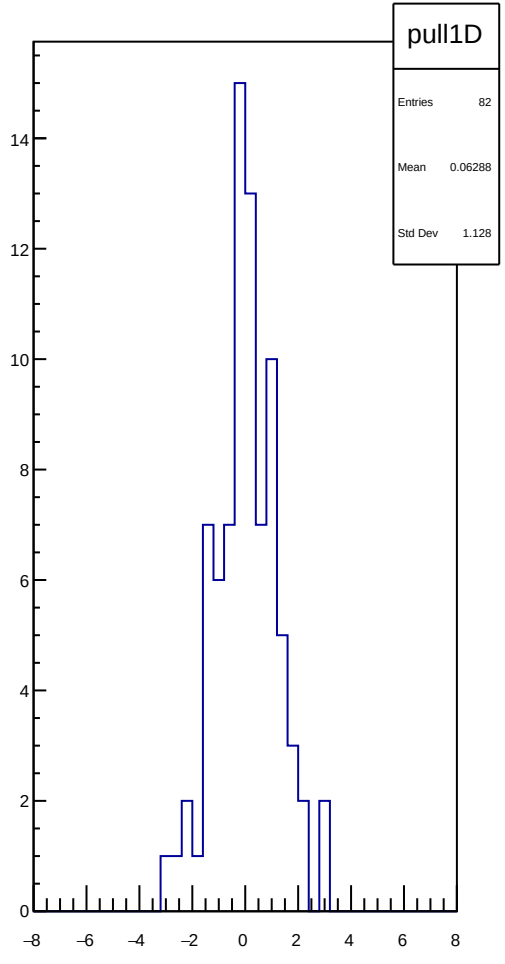

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.469e+04 / 81
p0 157.3 ± 0.1245
260
240
220
200
180
160
140
120

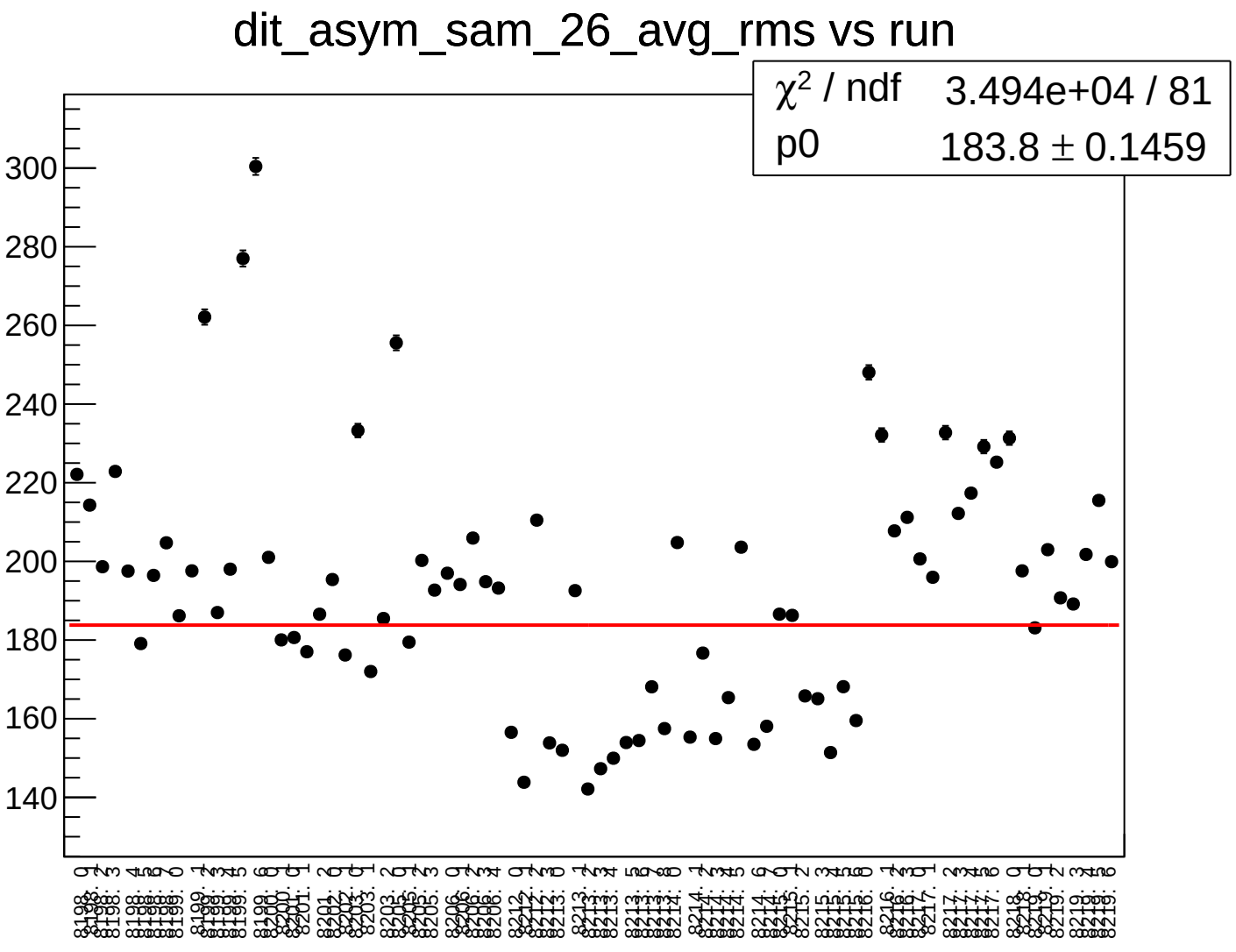

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.71 / 81
p0 −1540 ± 1979
pull
Entries 82
Mean −160.7
Std Dev 0

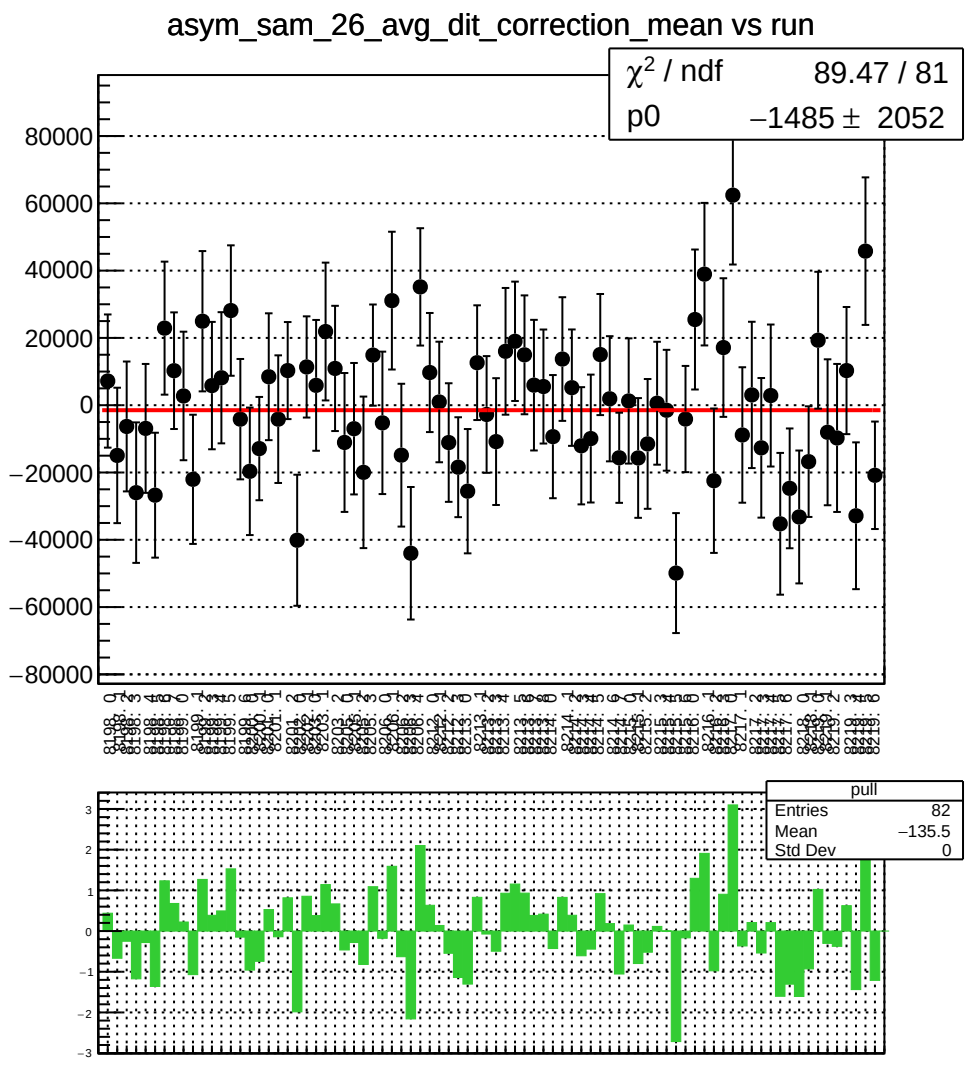

pull1D
Entries 82
Mean 0.005767
Std Dev 1.04

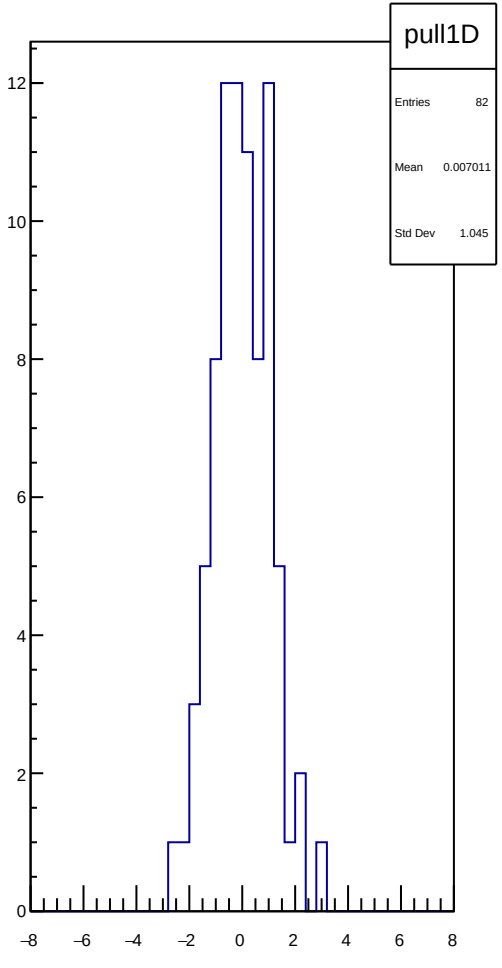

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 5899 / 81
p0 1778 ± 1.399
2100
2000
1900
1800
1700
1600

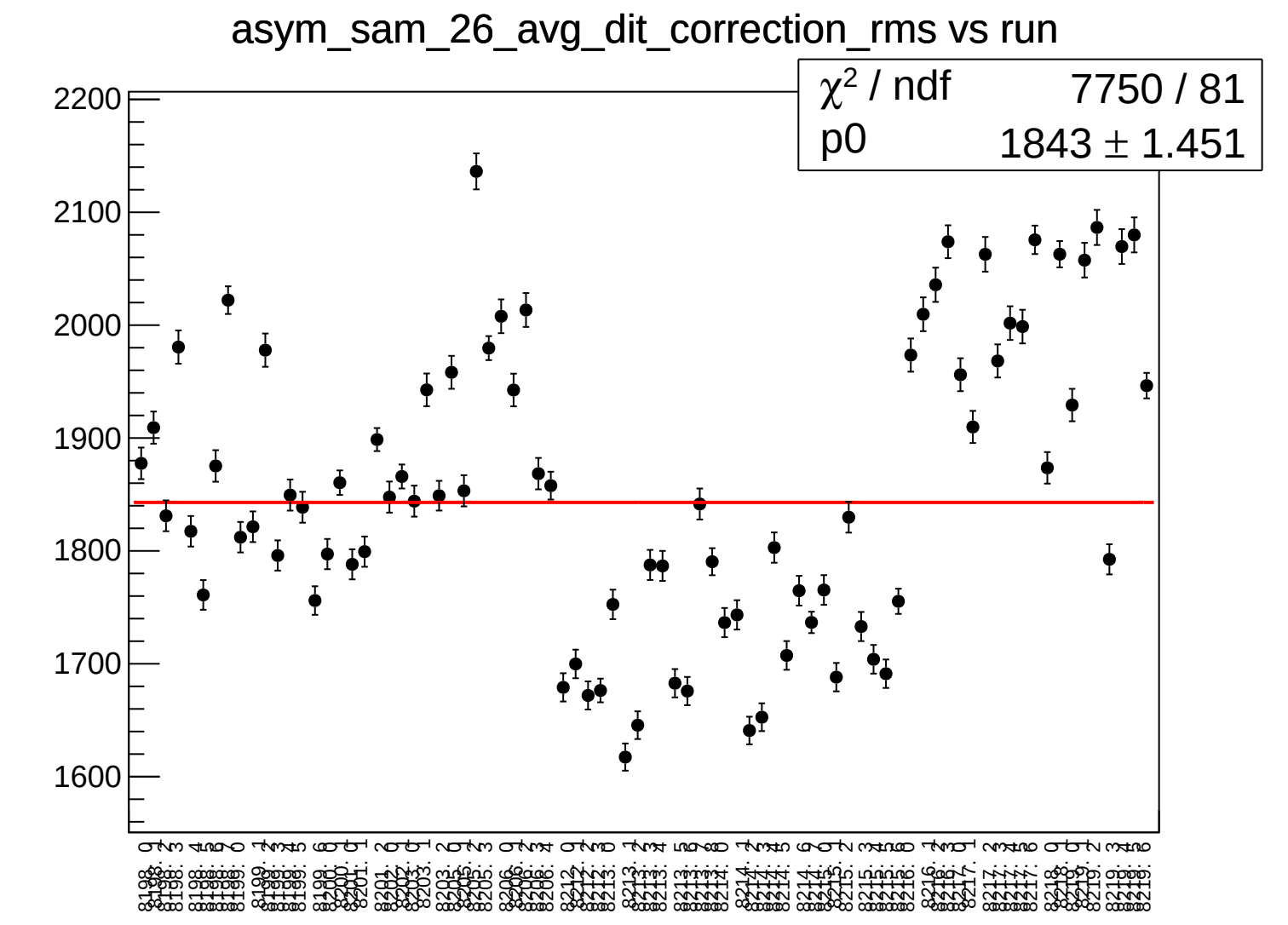

dit_asym_sam_26_avg_mean vs run
χ² / ndf 104.7 / 81
p0 170.3 ± 206.4
pull
Entries 82
Mean 43.08
Std Dev 37.43

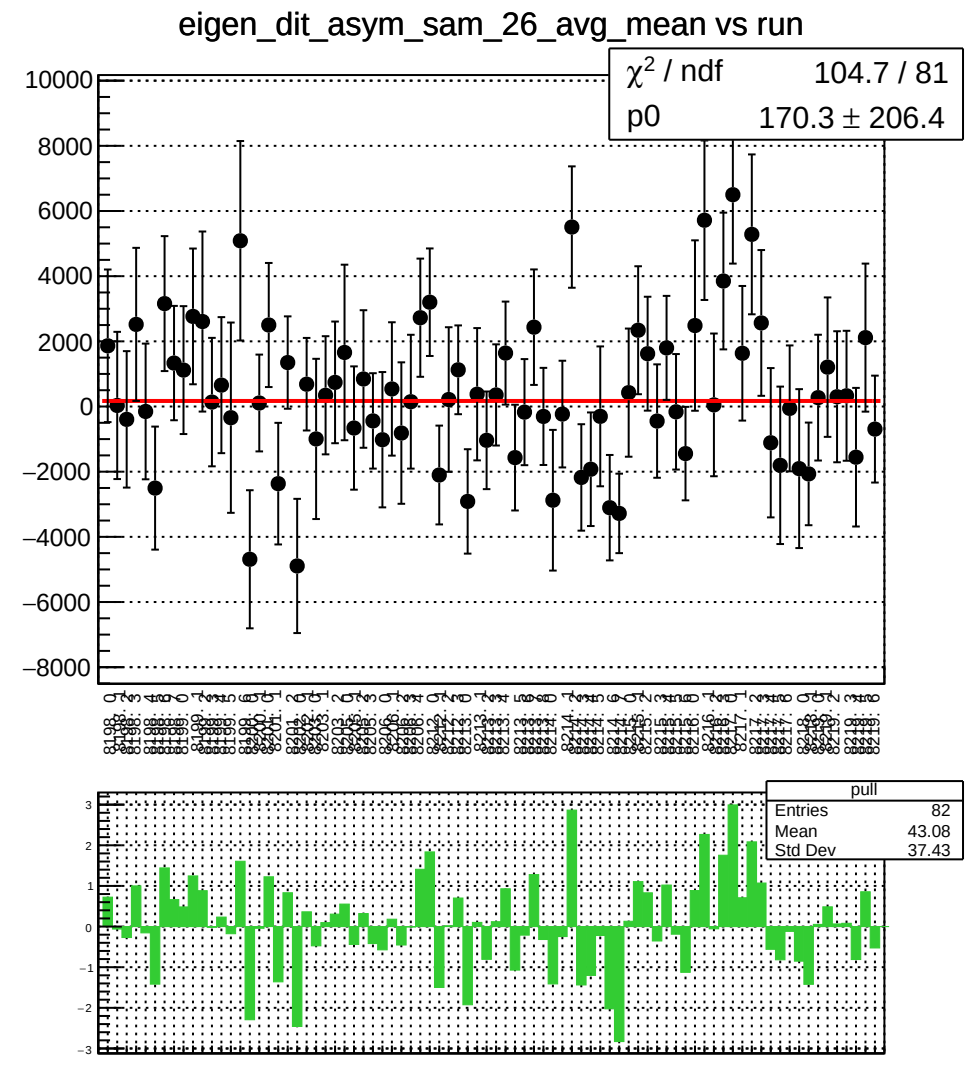

pull1D
Entries 82
Mean 0.06288
Std Dev 1.128

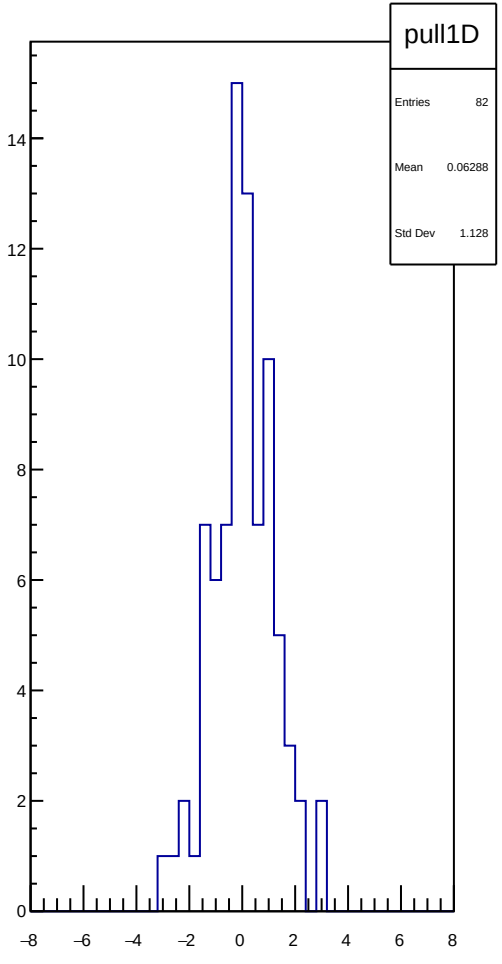

dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.494e+04 / 81
p0 183.8 ± 0.1459
300
280
260
240
220
200
180
160
140

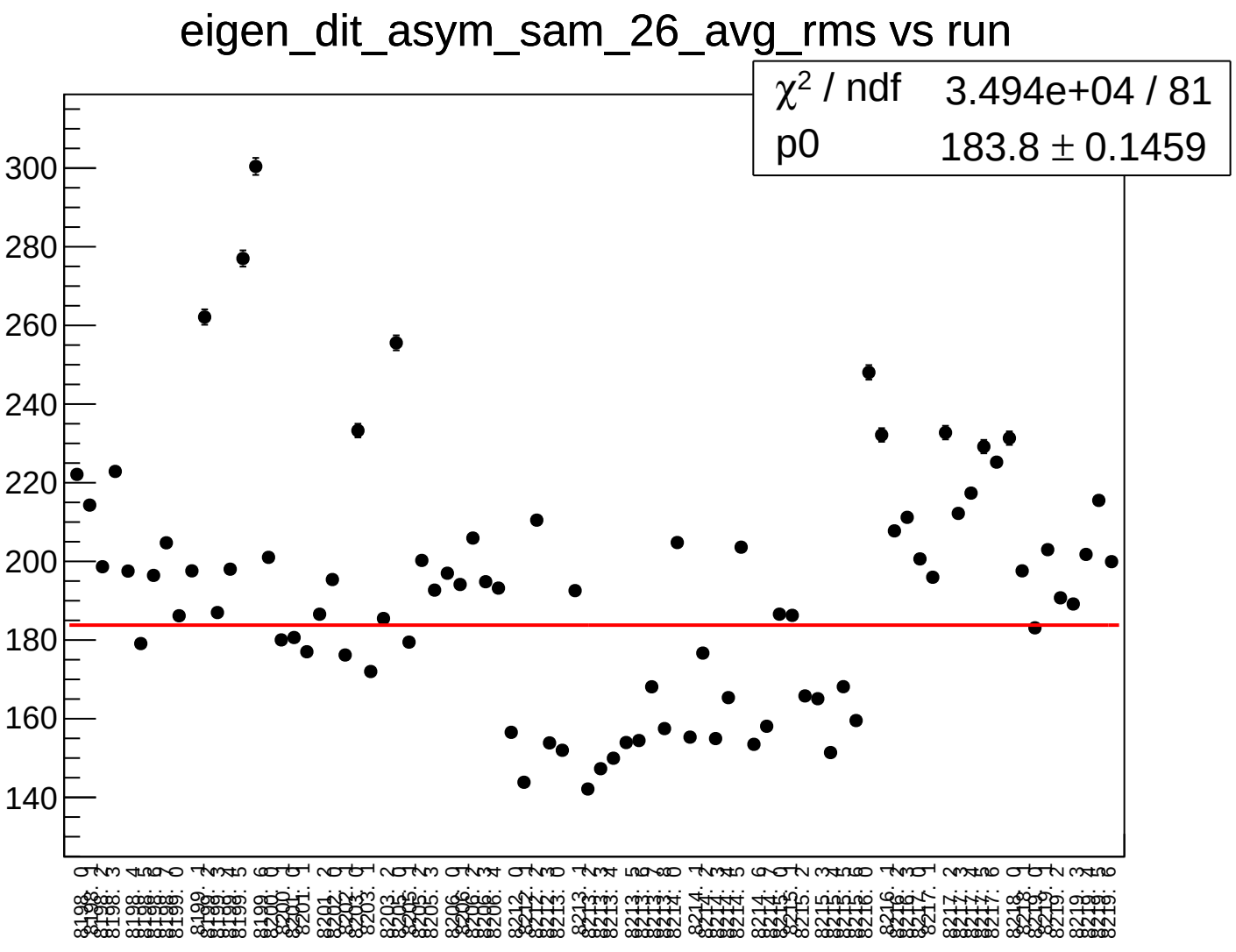

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 89.47 / 81
p0 −1485 ± 2052
pull
Entries 82
Mean −135.5
Std Dev 0

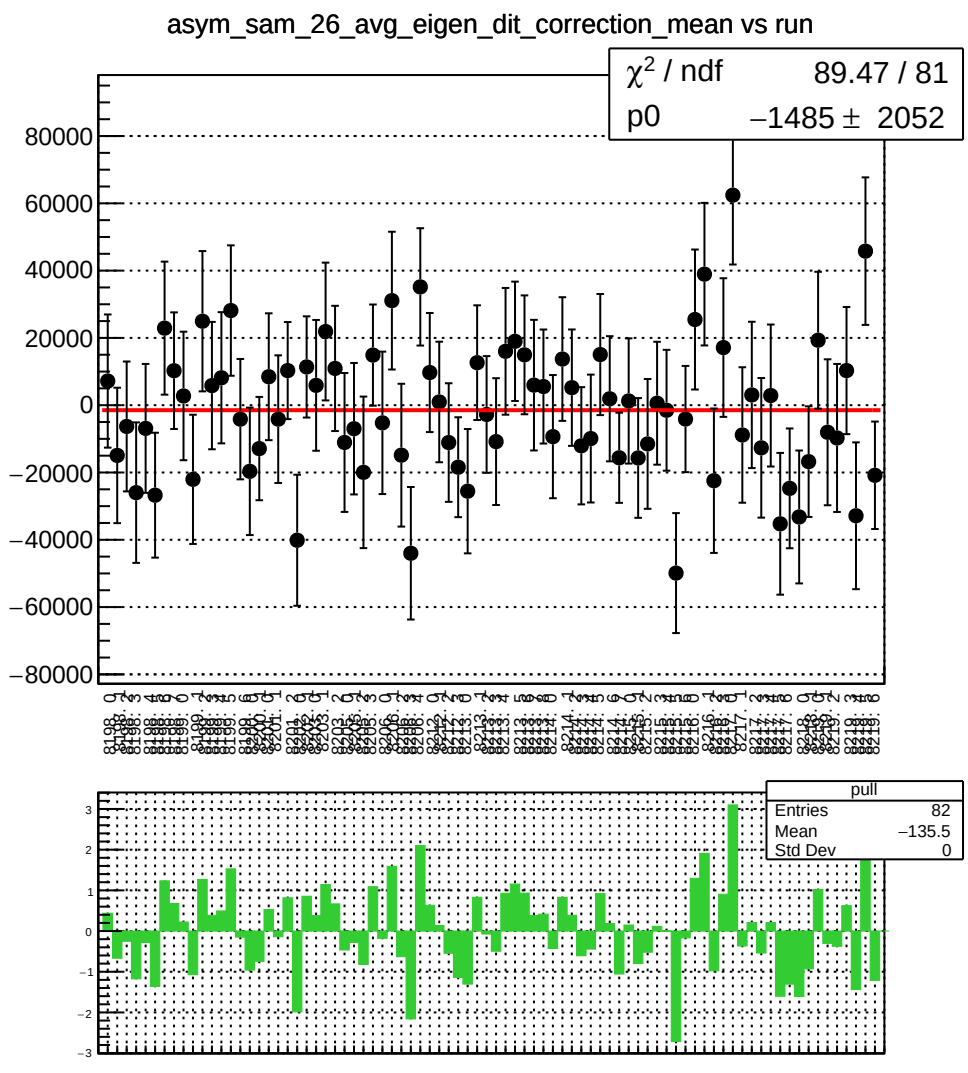

pull1D
Entries 82
Mean 0.007011
Std Dev 1.045

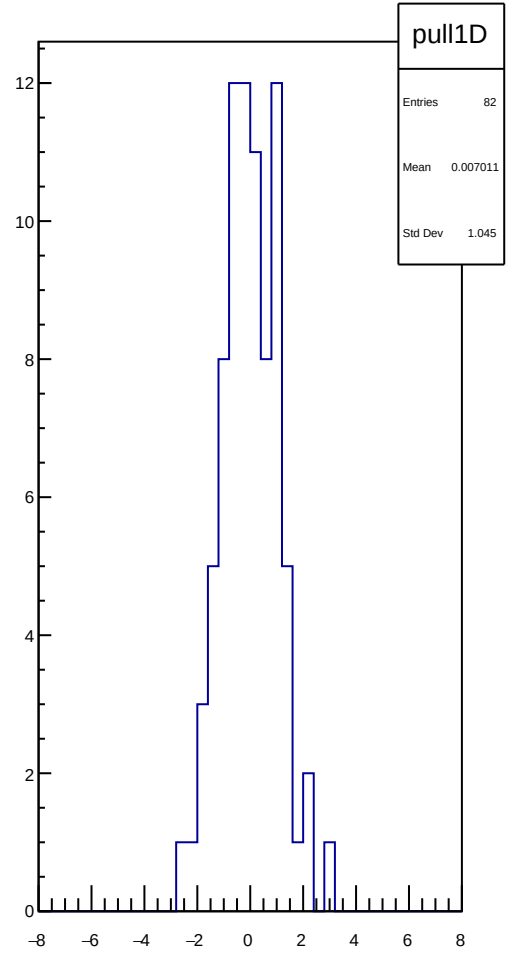

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 7750 / 81
p0 1843 ± 1.451
2200
2100
2000
1900
1800
1700
1600

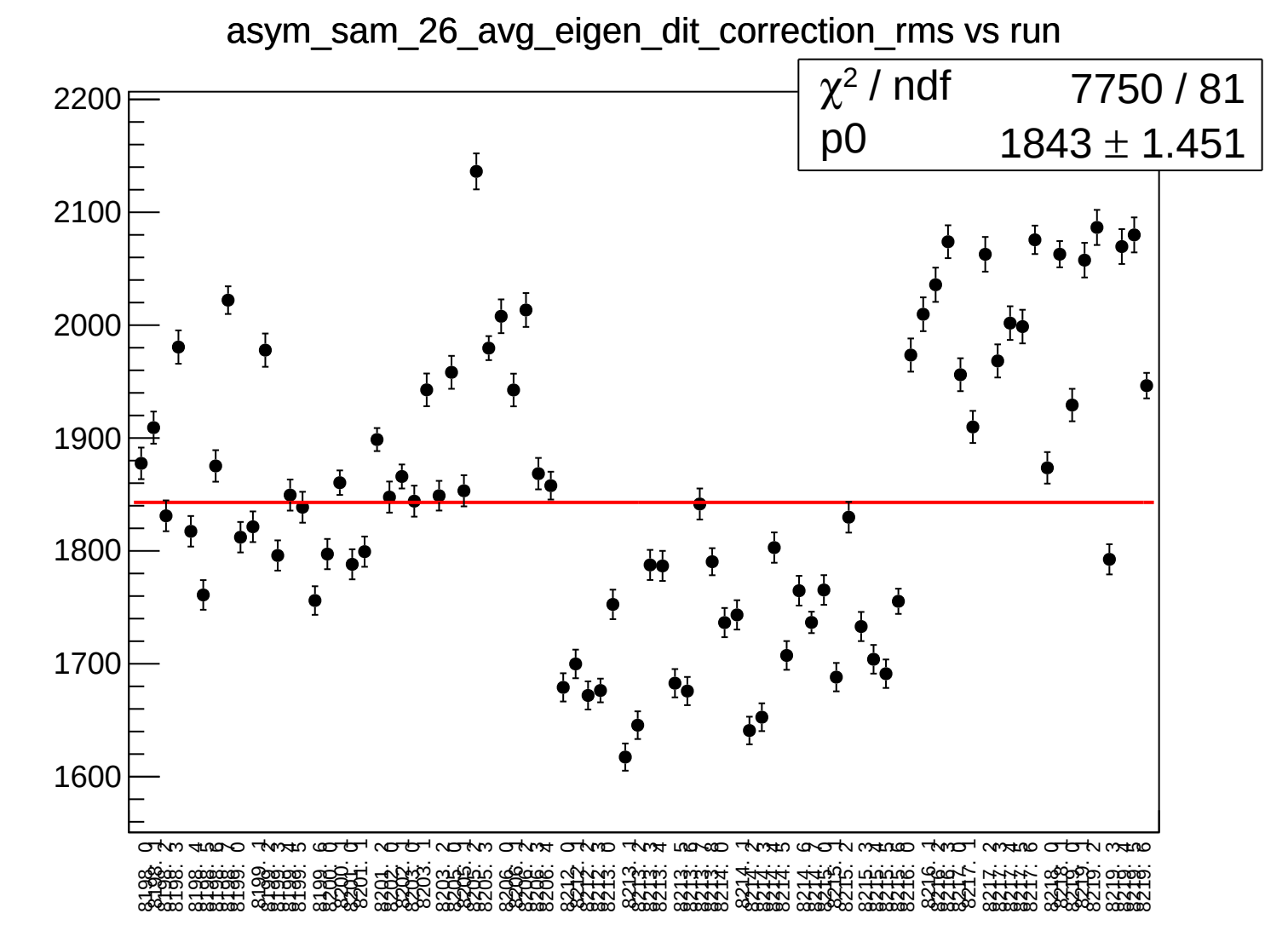

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 104.7 / 81
p0 170.3 ± 206.4
pull
Entries 82
Mean 43.08
Std Dev 37.43

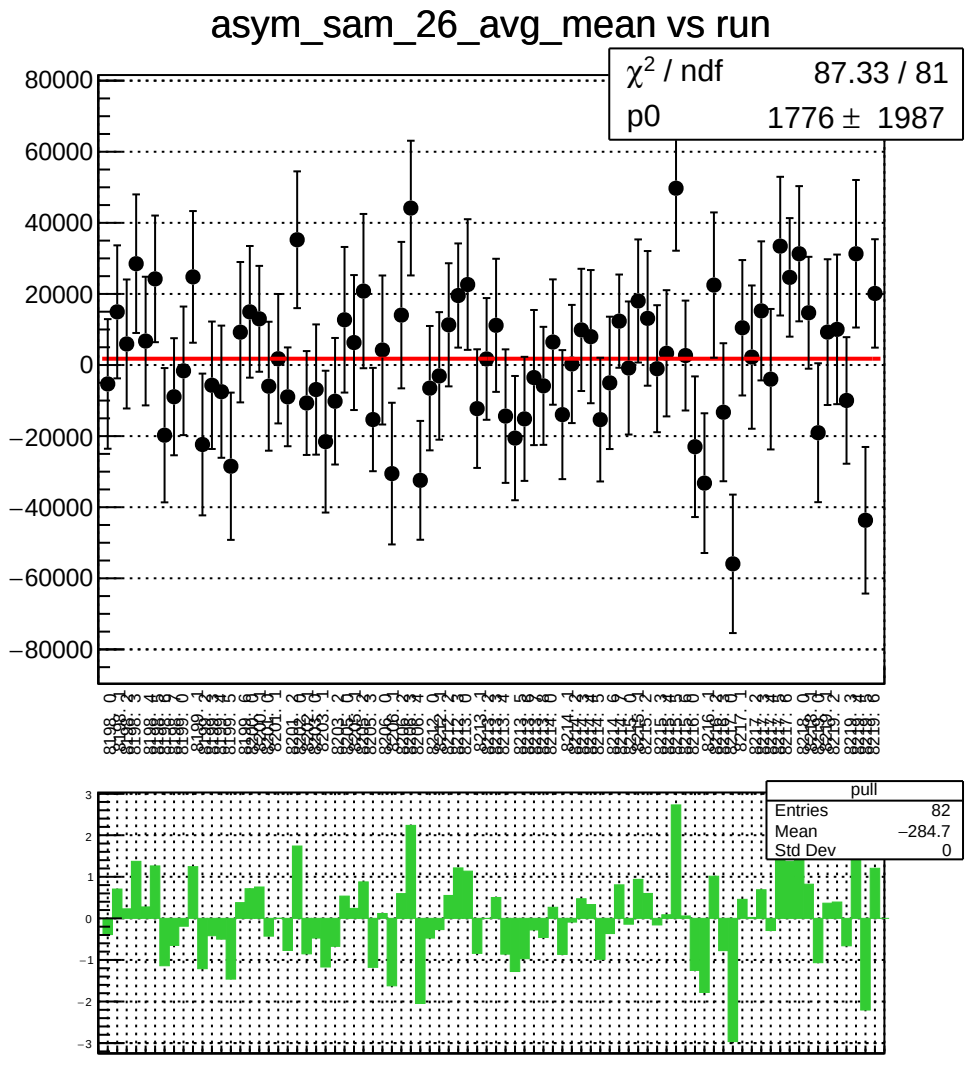

pull1D
Entries 82
Mean 0.06288
Std Dev 1.128

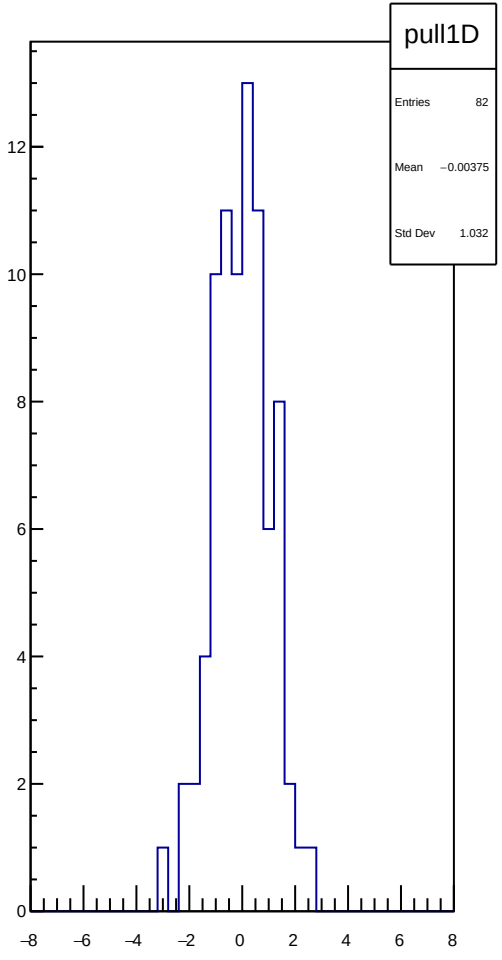

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.494e+04 / 81
p0 183.8 ± 0.1459
300
280
260
240
220
200
180
160
140

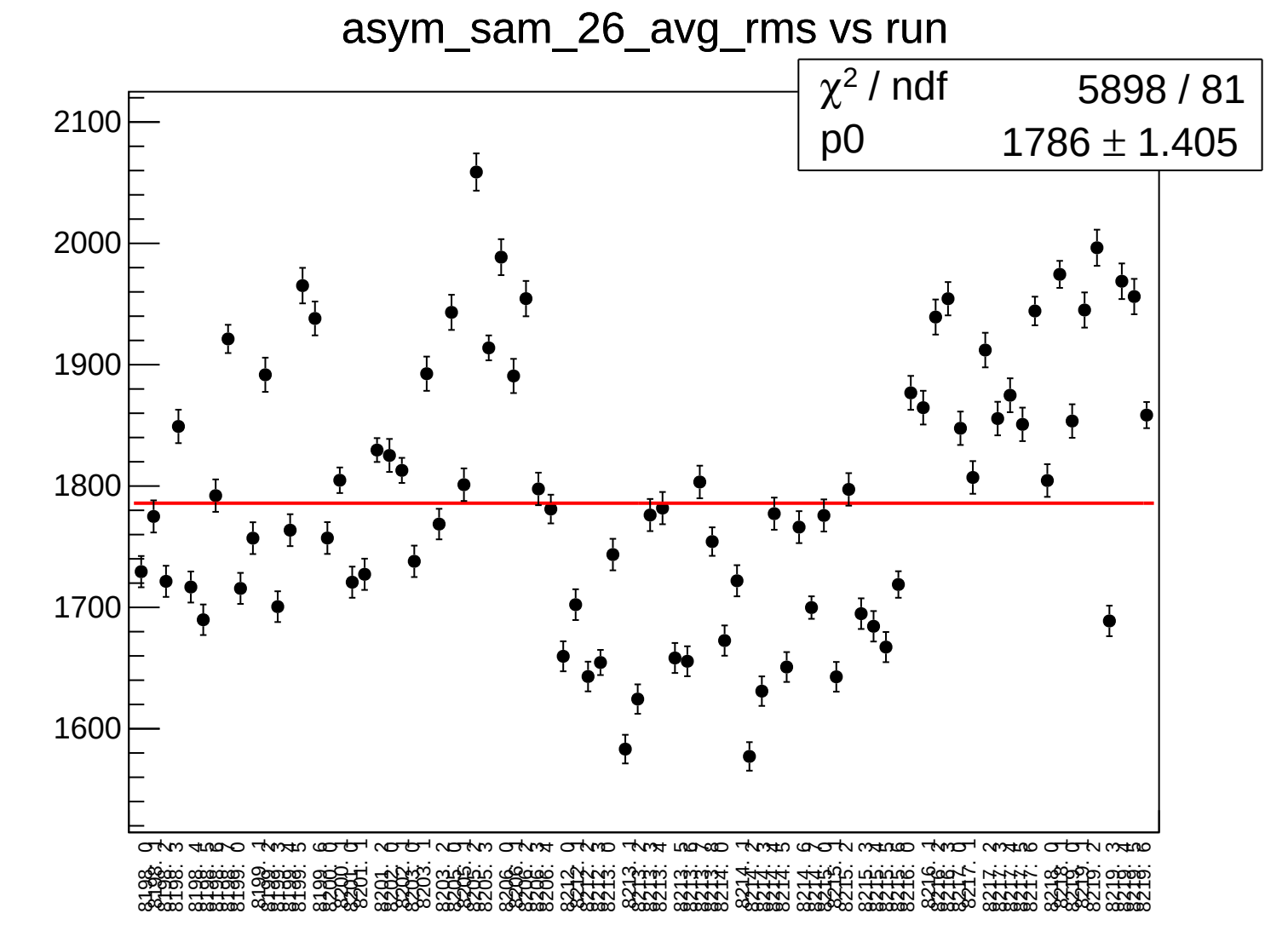

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.47 / 81
p0 −1485 ± 2052
pull
Entries 82
Mean −135.5
Std Dev 0

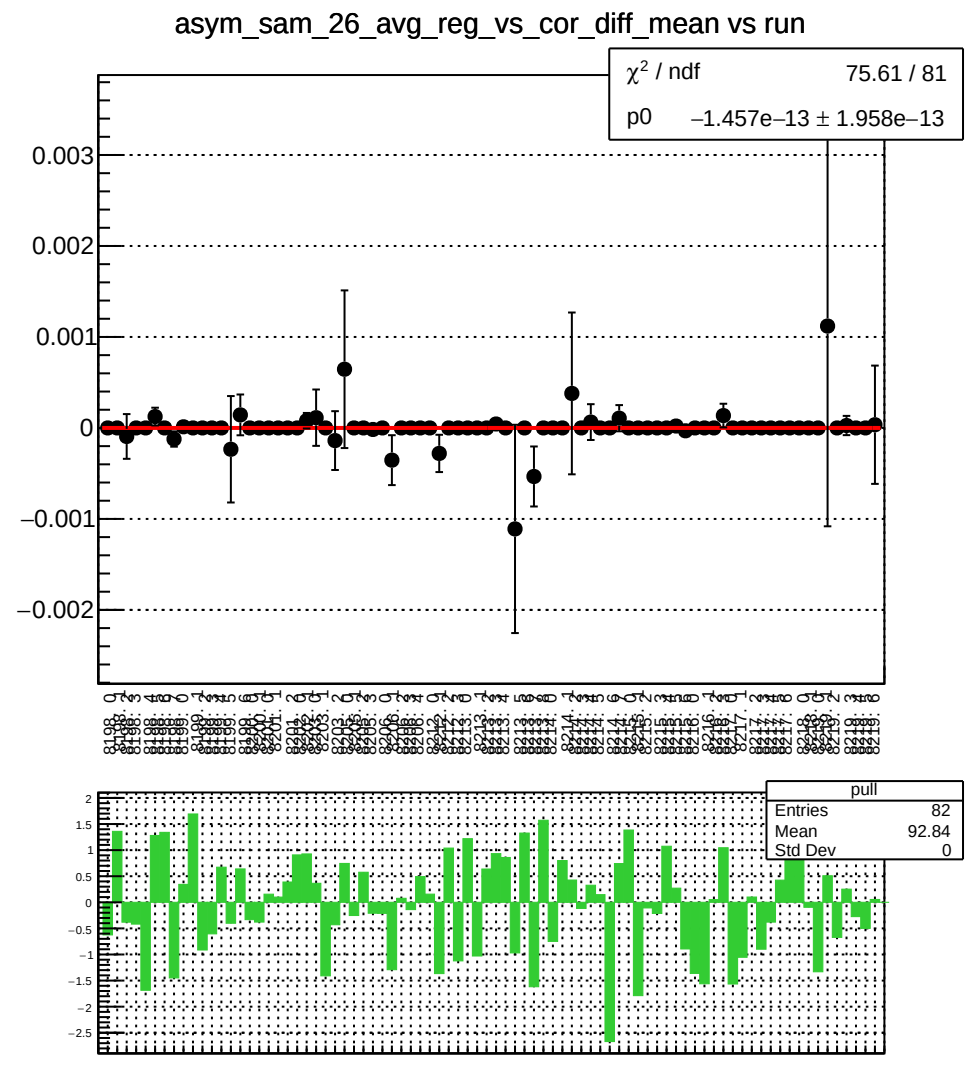

pull1D
Entries 82
Mean 0.007011
Std Dev 1.045

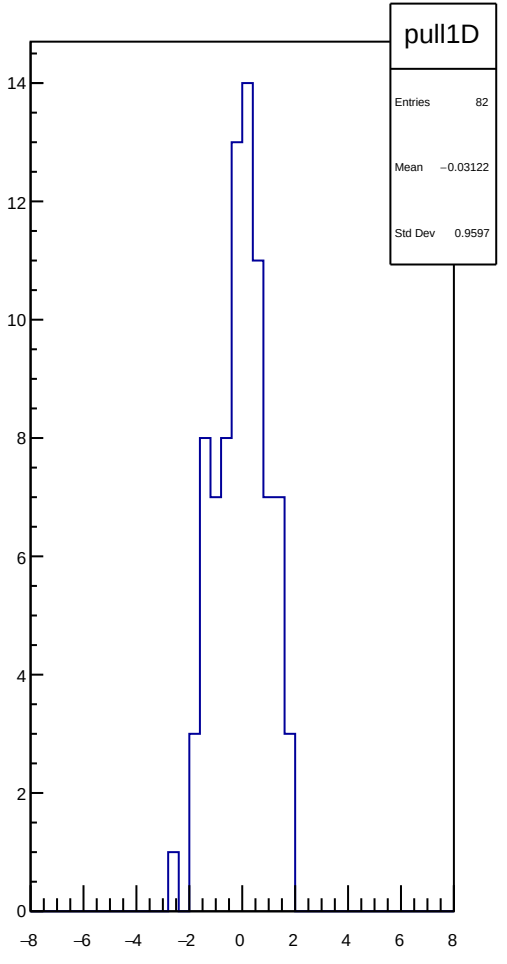

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 7750 / 81
p0 1843 ± 1.451
2200
2100
2000
1900
1800
1700
1600

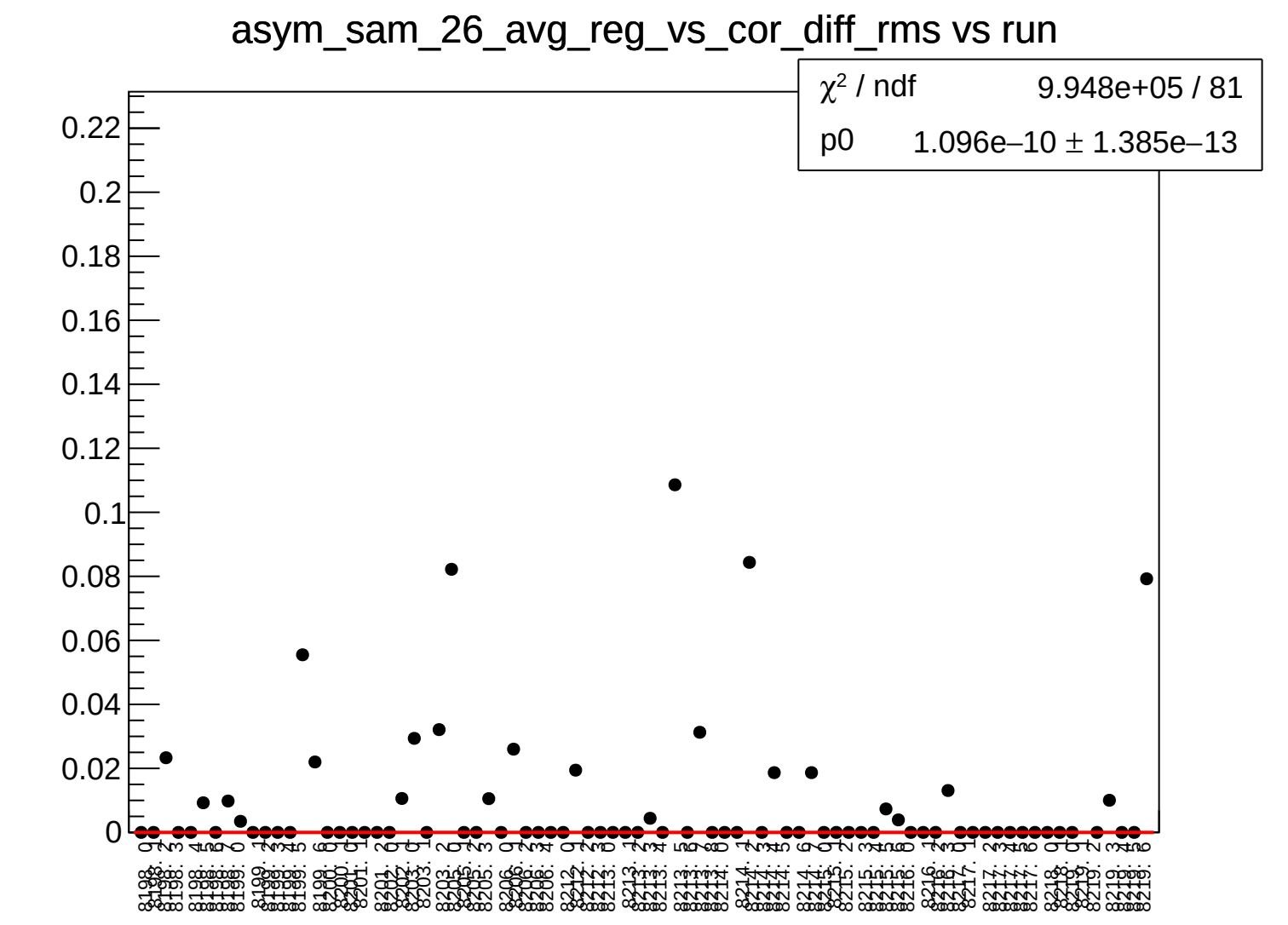

asym_sam_26_avg_mean vs run
χ² / ndf 87.33 / 81
p0 1776 ± 1987
pull
Entries 82
Mean −284.7
Std Dev 0

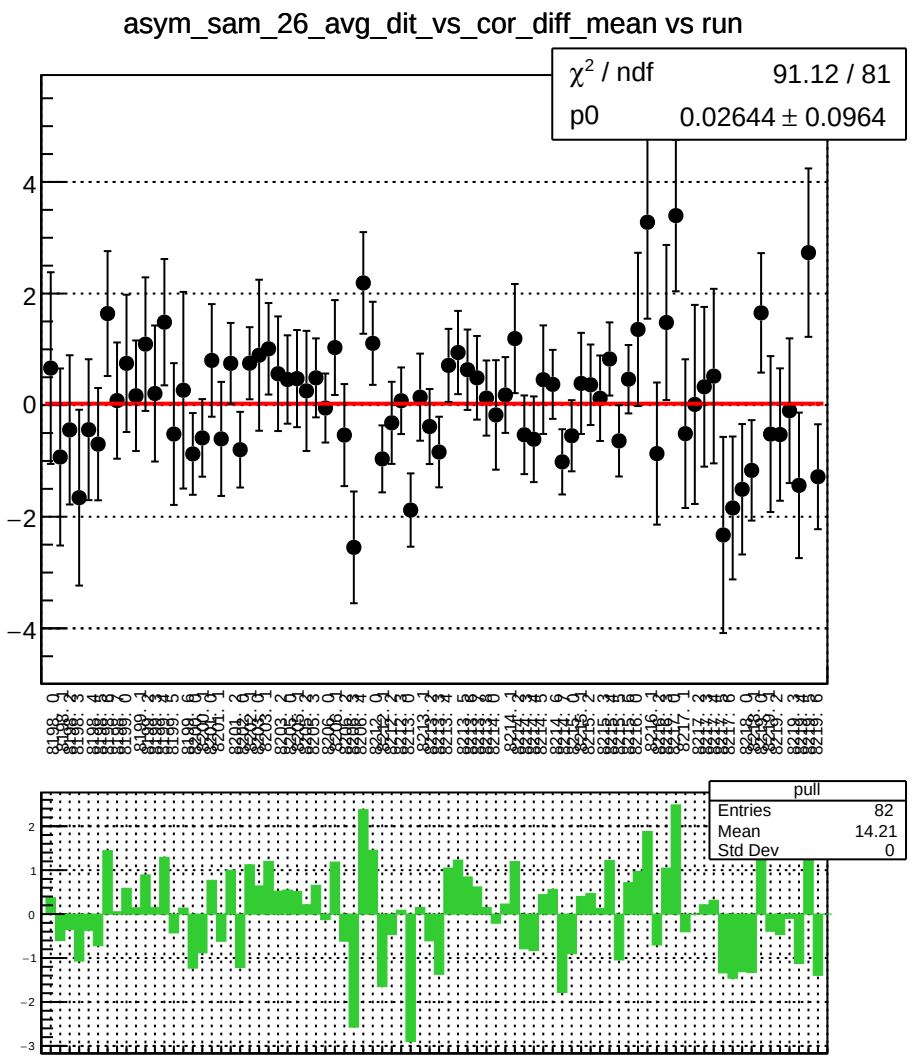

pull1D
Entries 82
Mean −0.00375
Std Dev 1.032

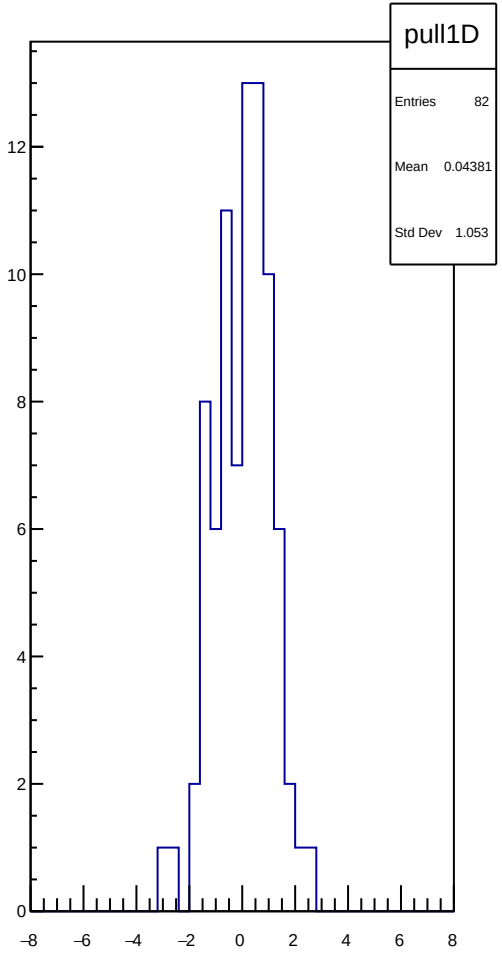

asym_sam_26_avg_rms vs run
χ² / ndf 5898 / 81
p0 1786 ± 1.405
2100
2000
1900
1800
1700
1600

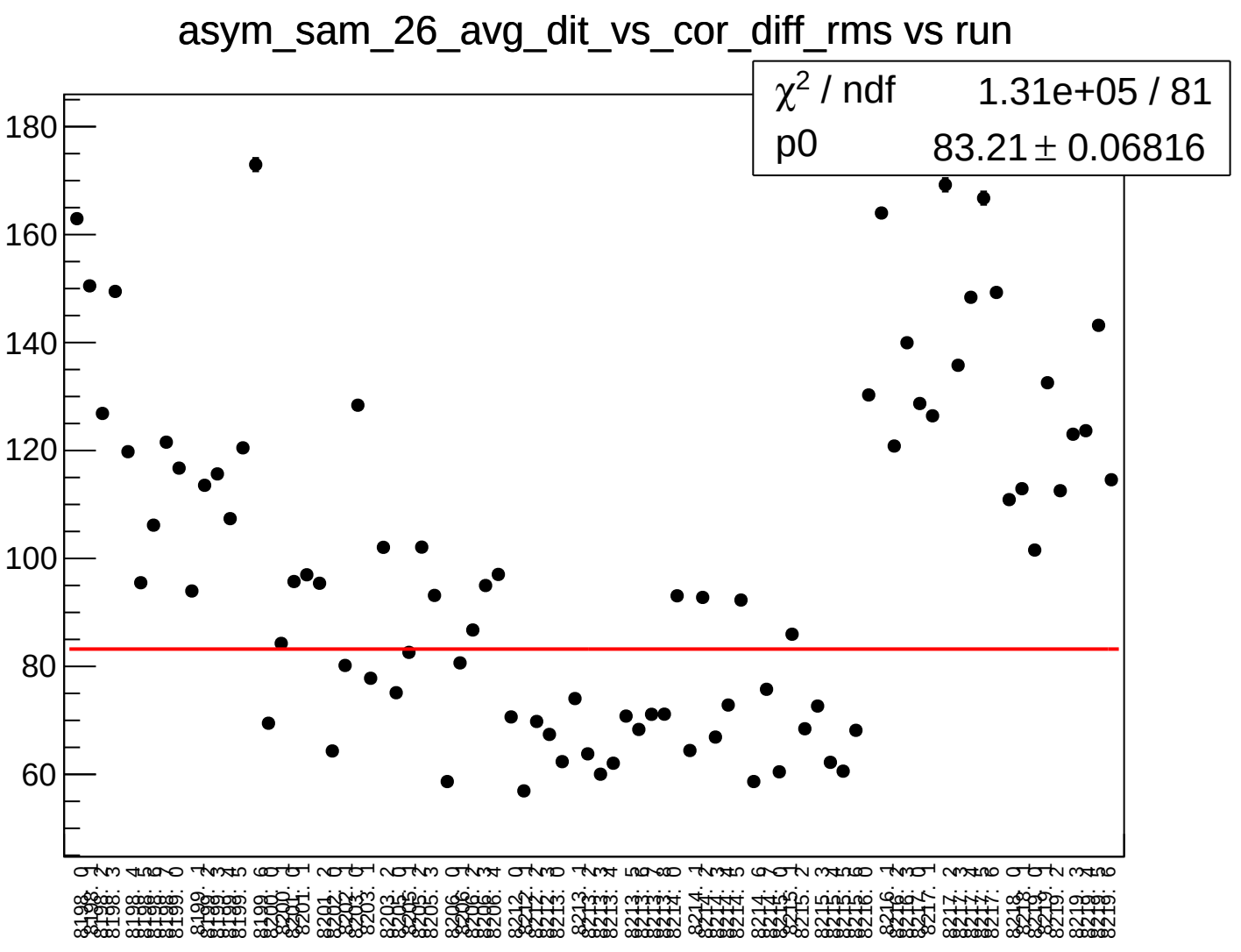

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.61 / 81
p0 −1.457e−13 ± 1.958e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 82
Mean 92.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

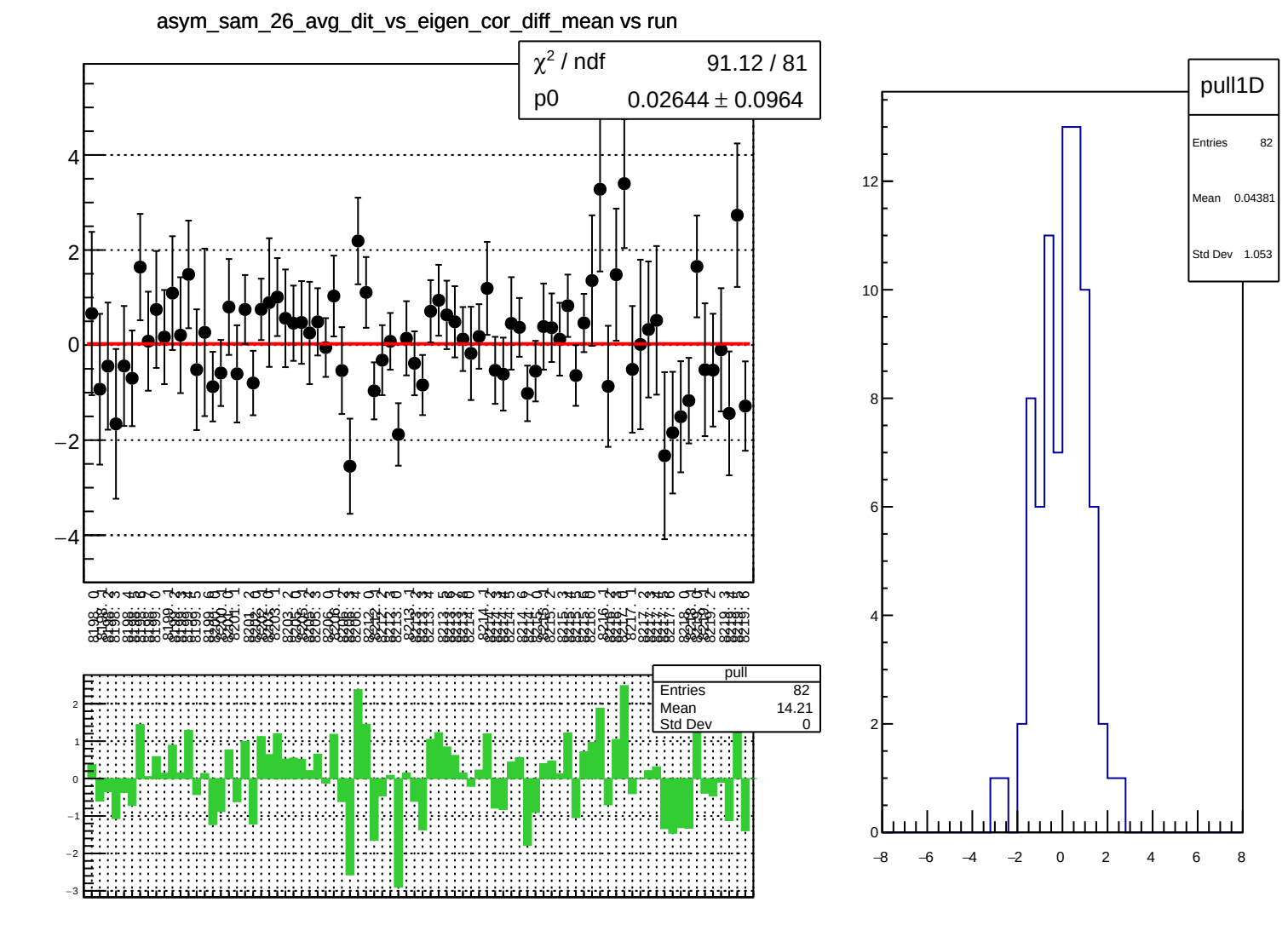

pull1D
Entries 82
Mean −0.03122
Std Dev 0.9597
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

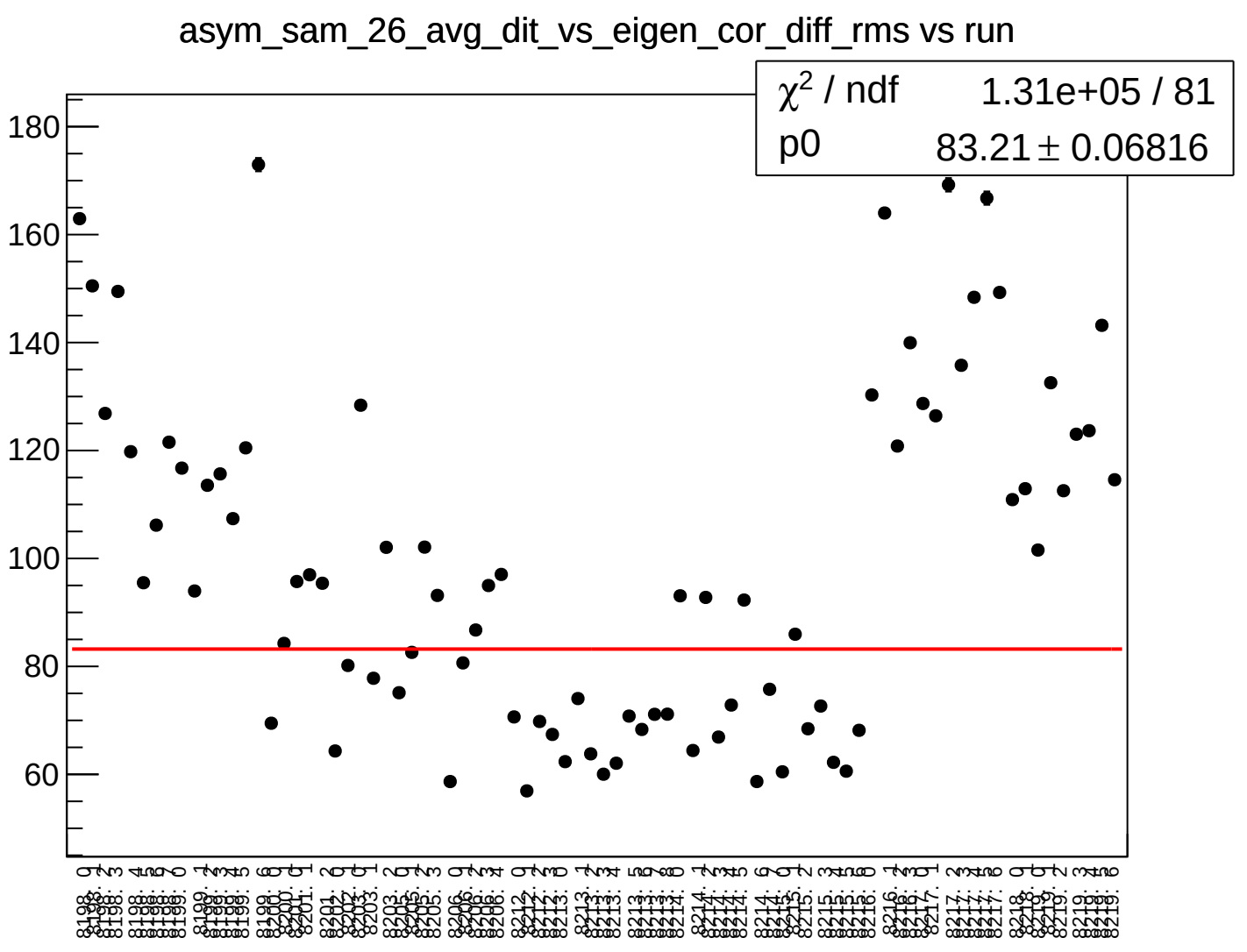

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.948e+05 / 81
p0 1.096e−10 ± 1.385e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

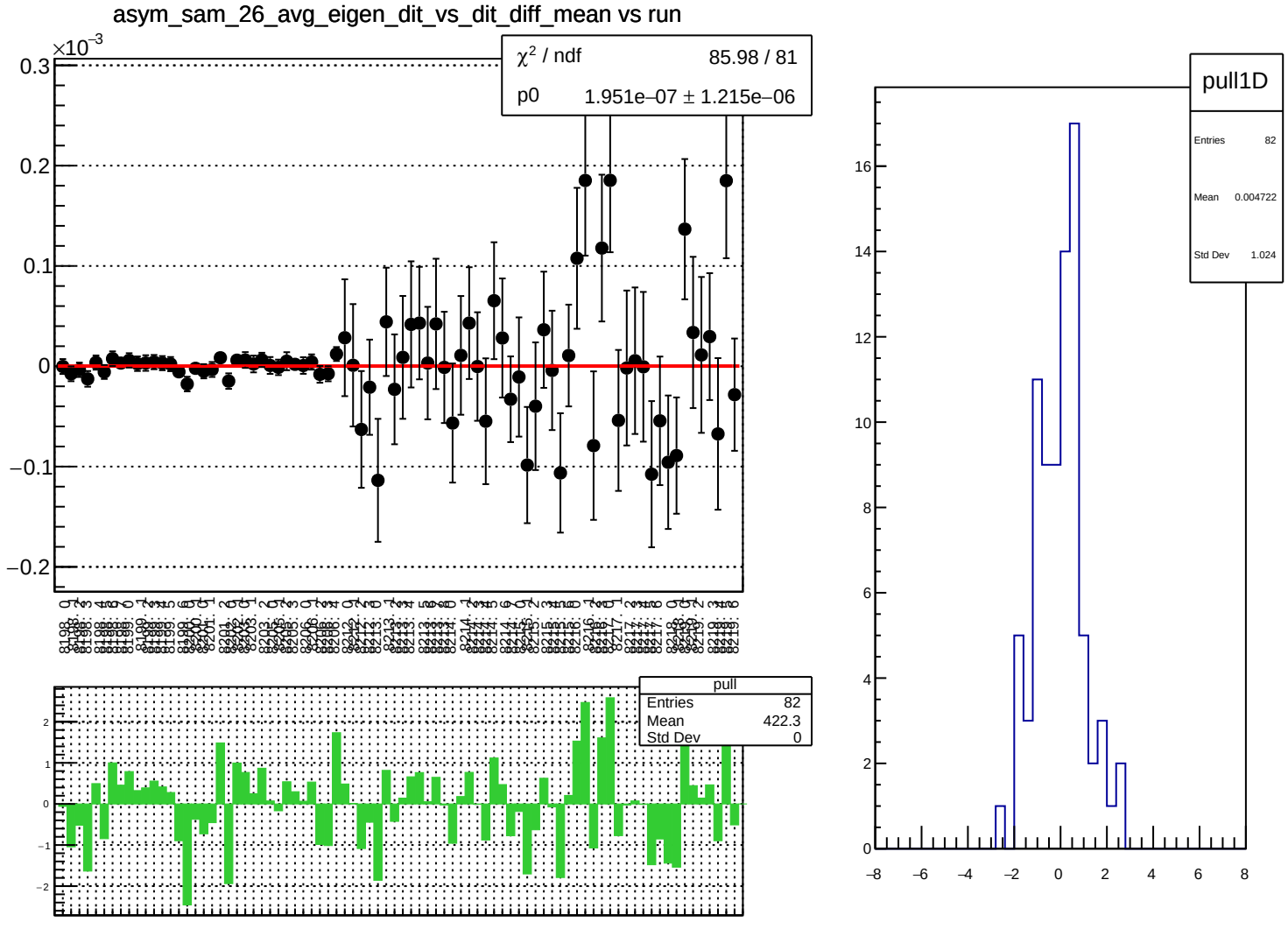

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.12 / 81
p0 0.02644 ± 0.0964
pull
Entries 82
Mean 14.21
Std Dev 0

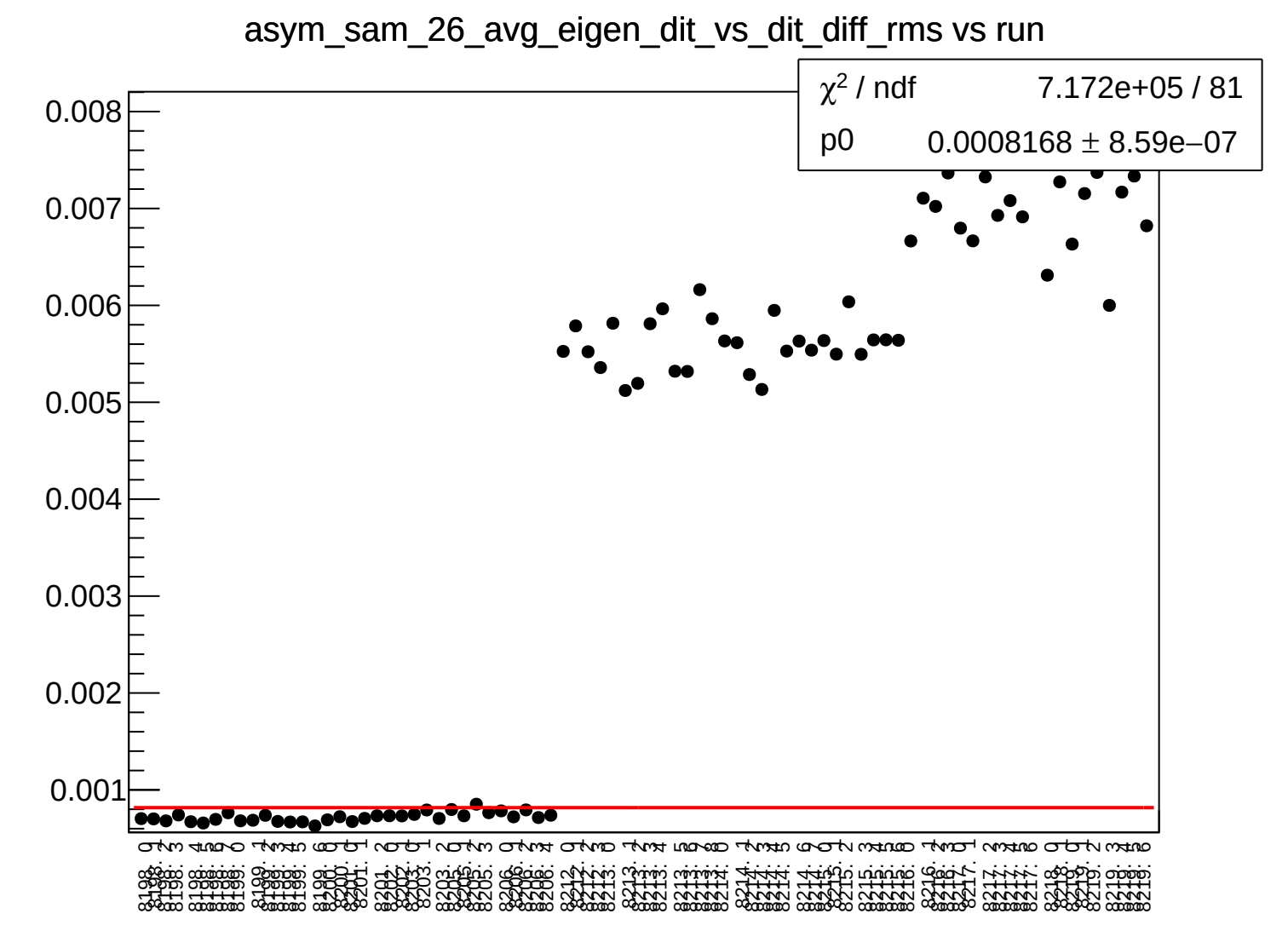

pull1D
Entries 82
Mean 0.04381
Std Dev 1.053

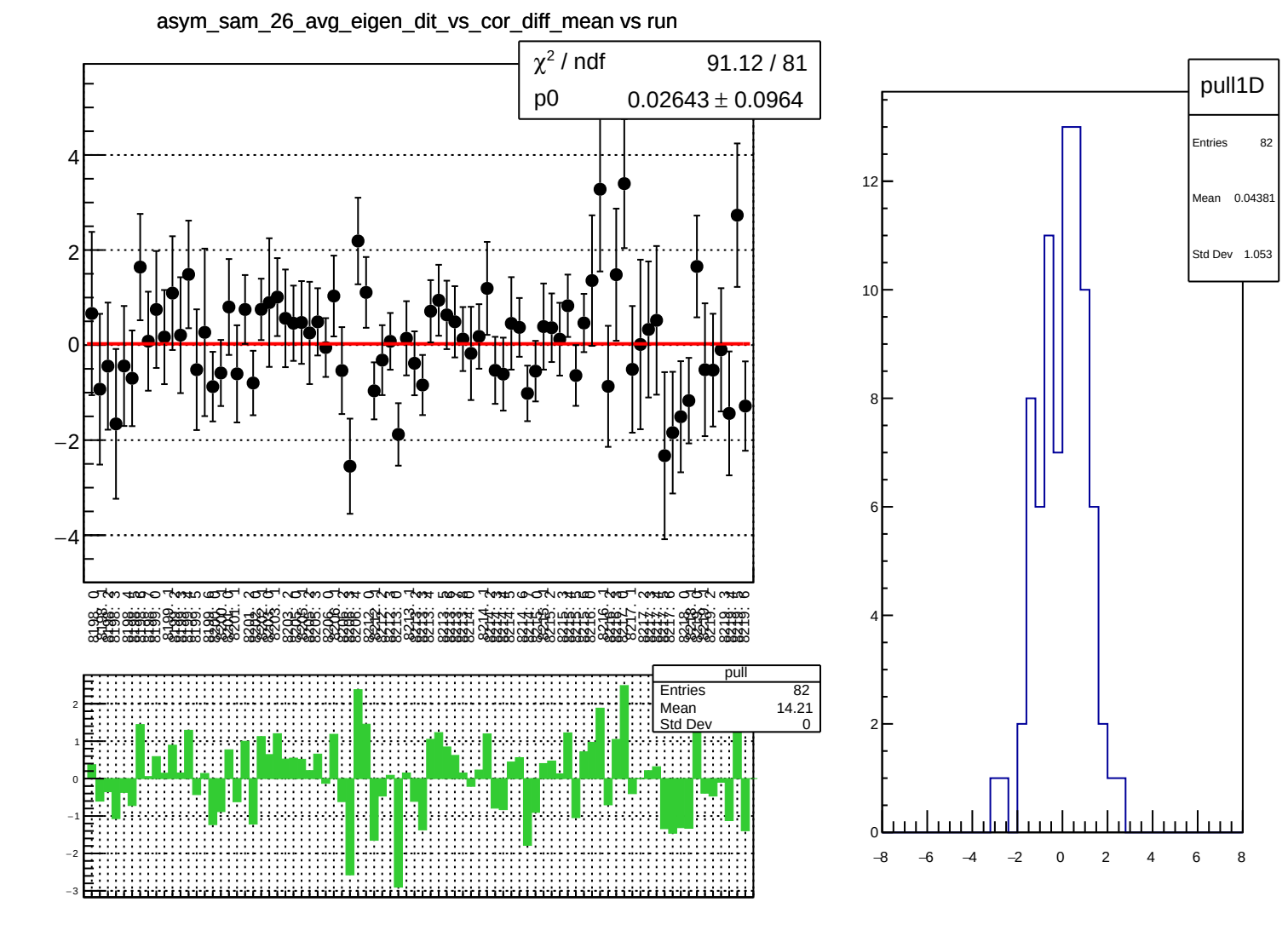

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.31e+05 / 81
p0 83.21 ± 0.06816
180
160
140
120
100
80
60

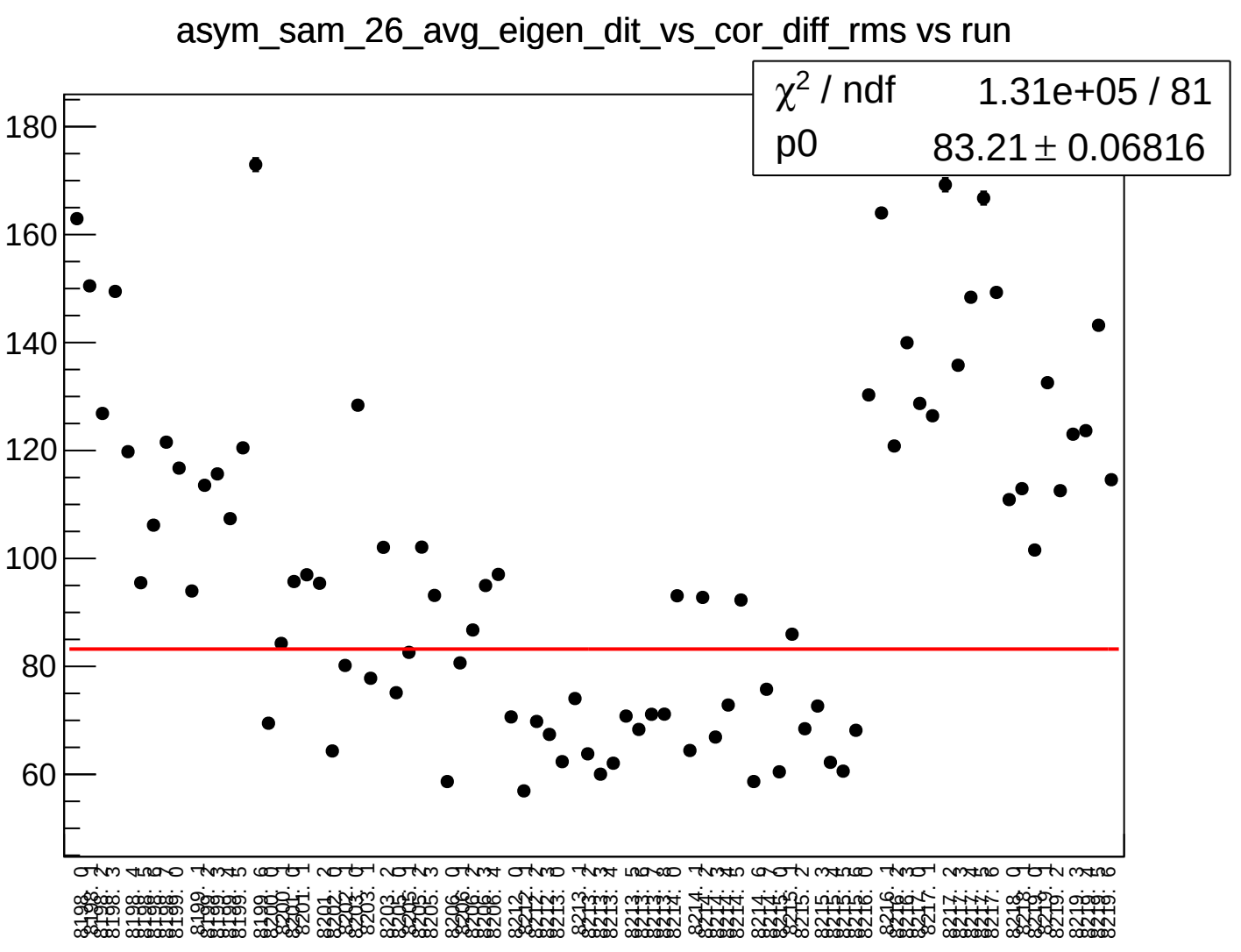

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.12 / 81
p0 0.02644 ± 0.0964
pull
Entries 82
Mean 14.21
Std Dev 0
pull1D
Entries 82
Mean 0.04381
Std Dev 1.053

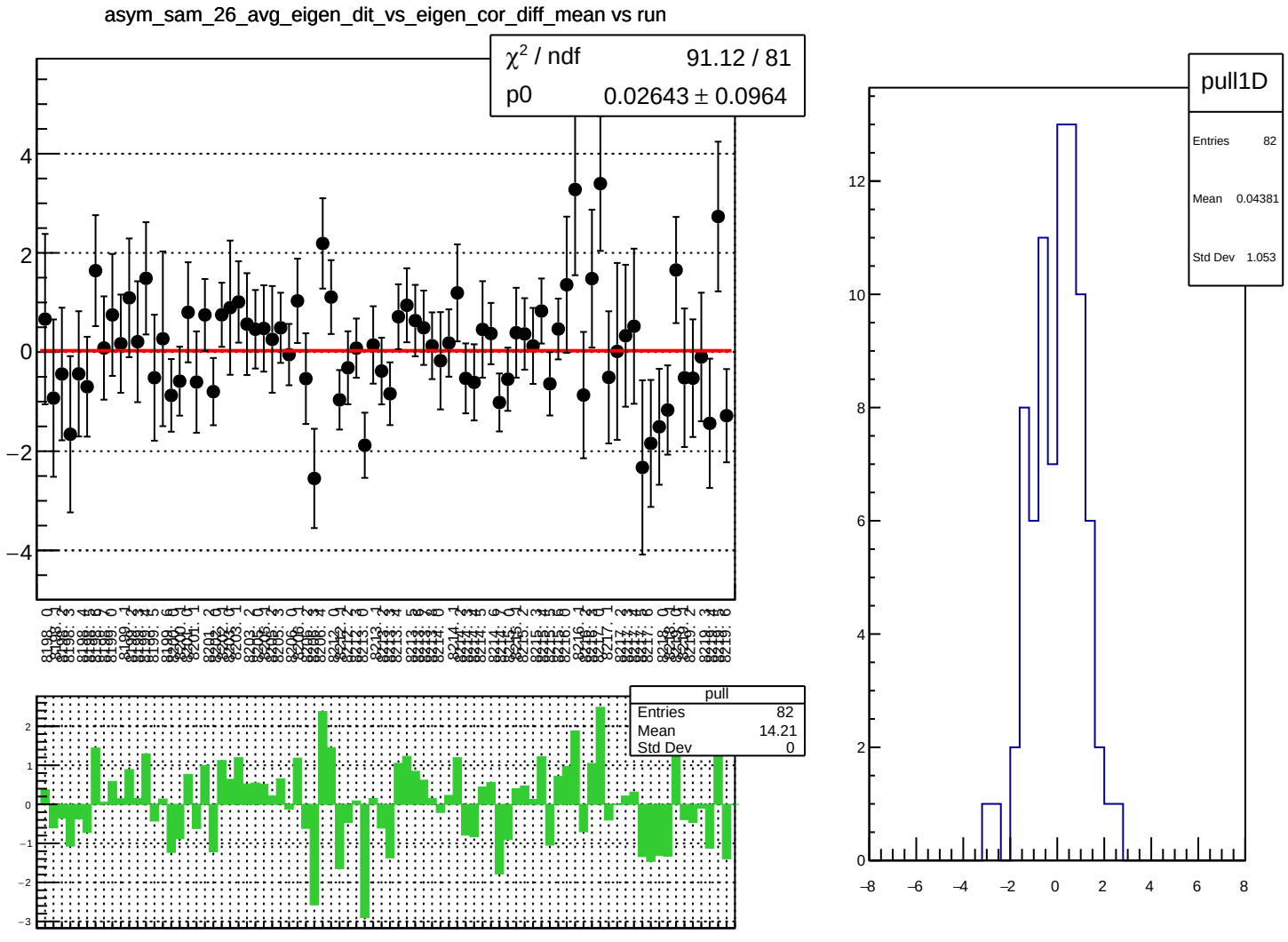

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.31e+05 / 81
p0 83.21 ± 0.06816
180
160
140
120
100
80
60

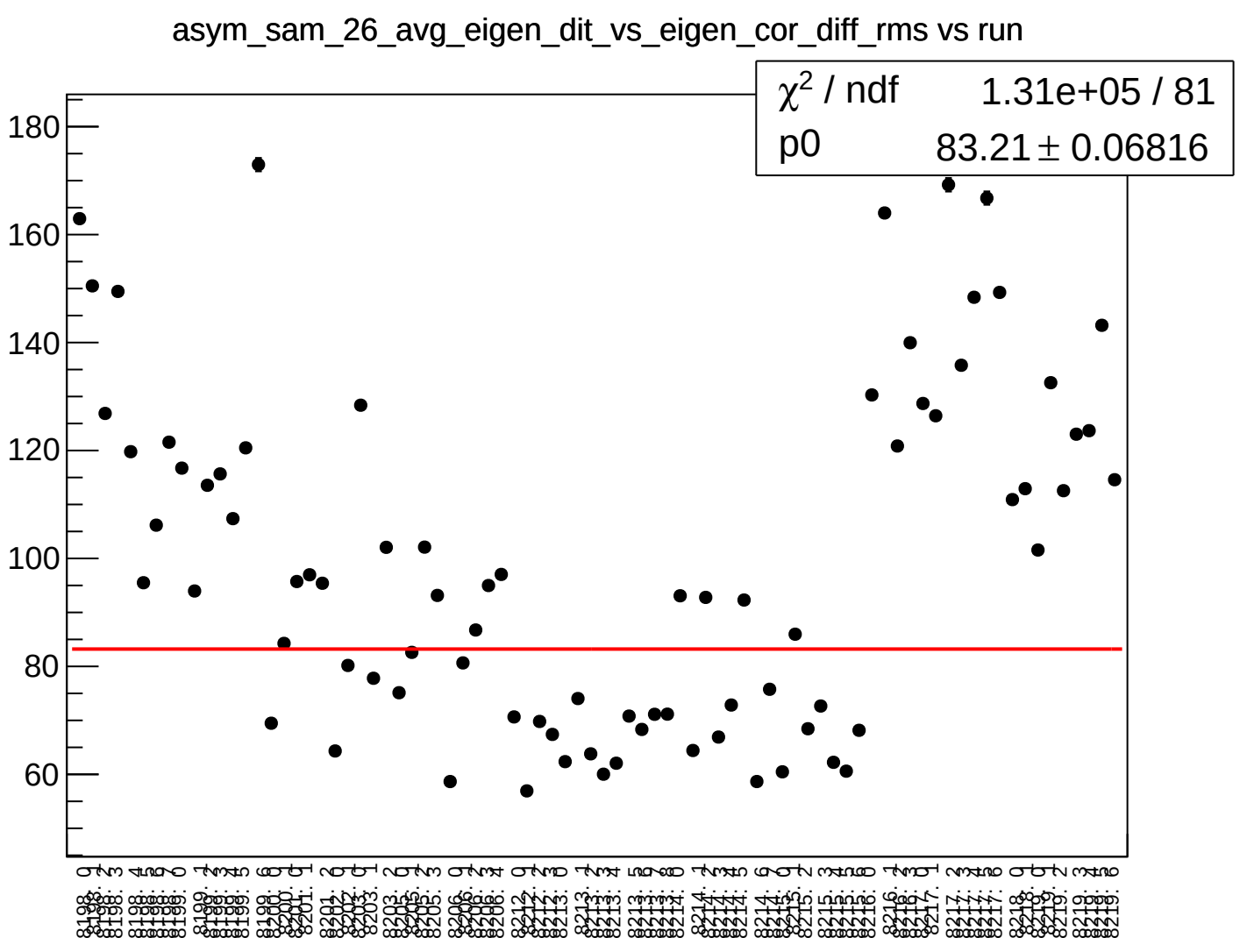

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.98 / 81
p0 1.951e−07 ± 1.215e−06
pull
Entries 82
Mean 422.3
Std Dev 0
pull1D
Entries 82
Mean 0.004722
Std Dev 1.024

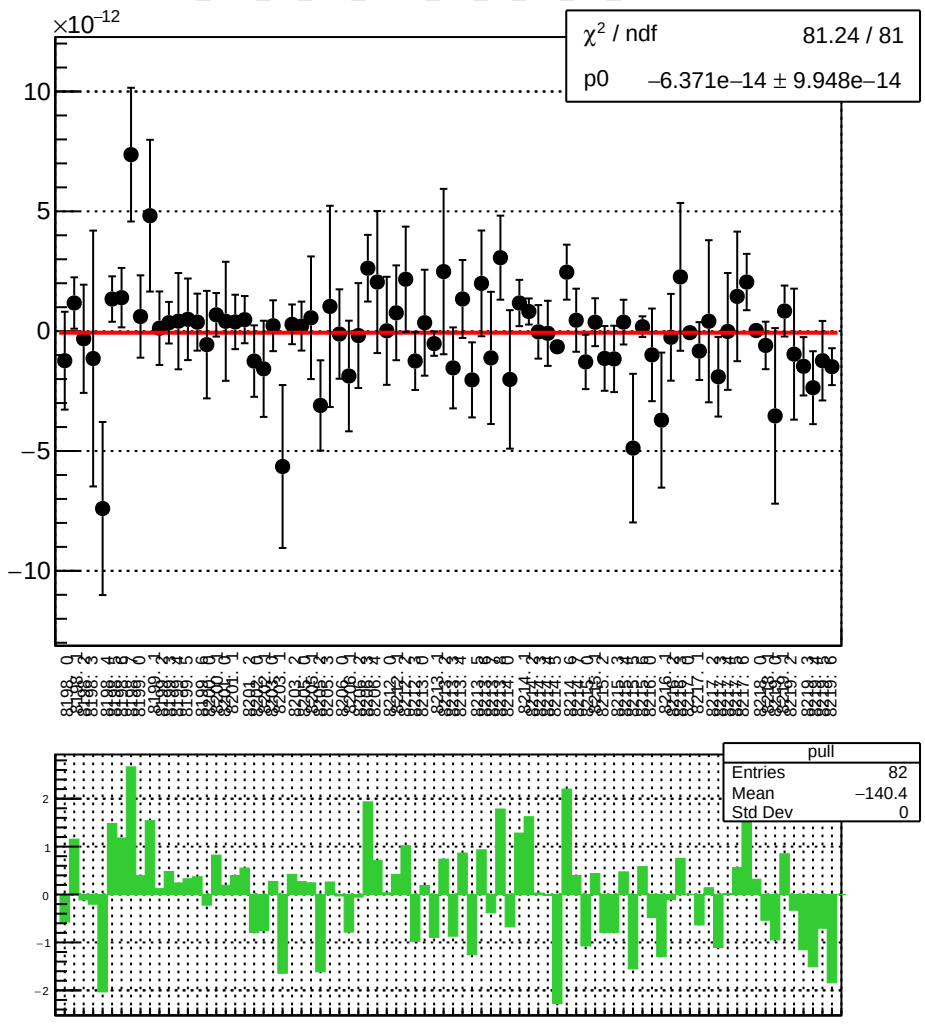

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.172e+05 / 81
p0 0.0008168 ± 8.59e−07
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

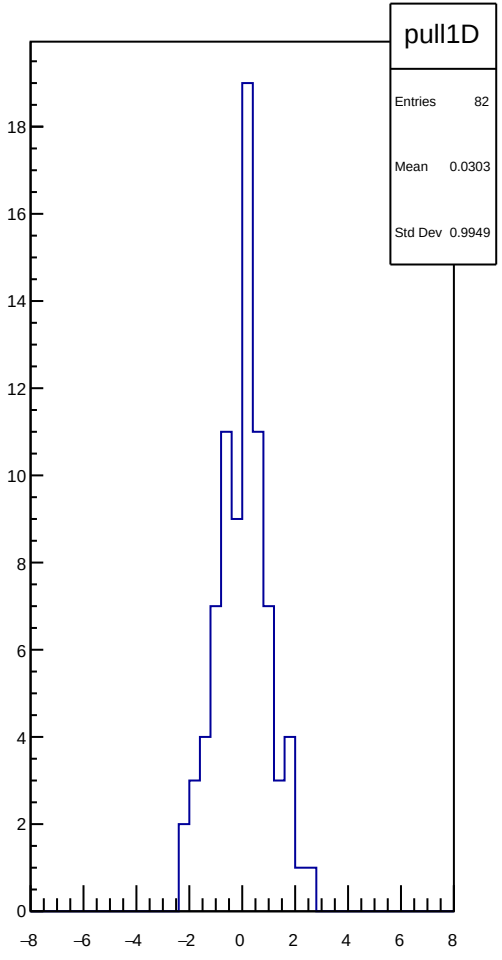

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.12 / 81
p0 0.02643 ± 0.0964
pull
Entries 82
Mean 14.21
Std Dev 0
pull1D
Entries 82
Mean 0.04381
Std Dev 1.053

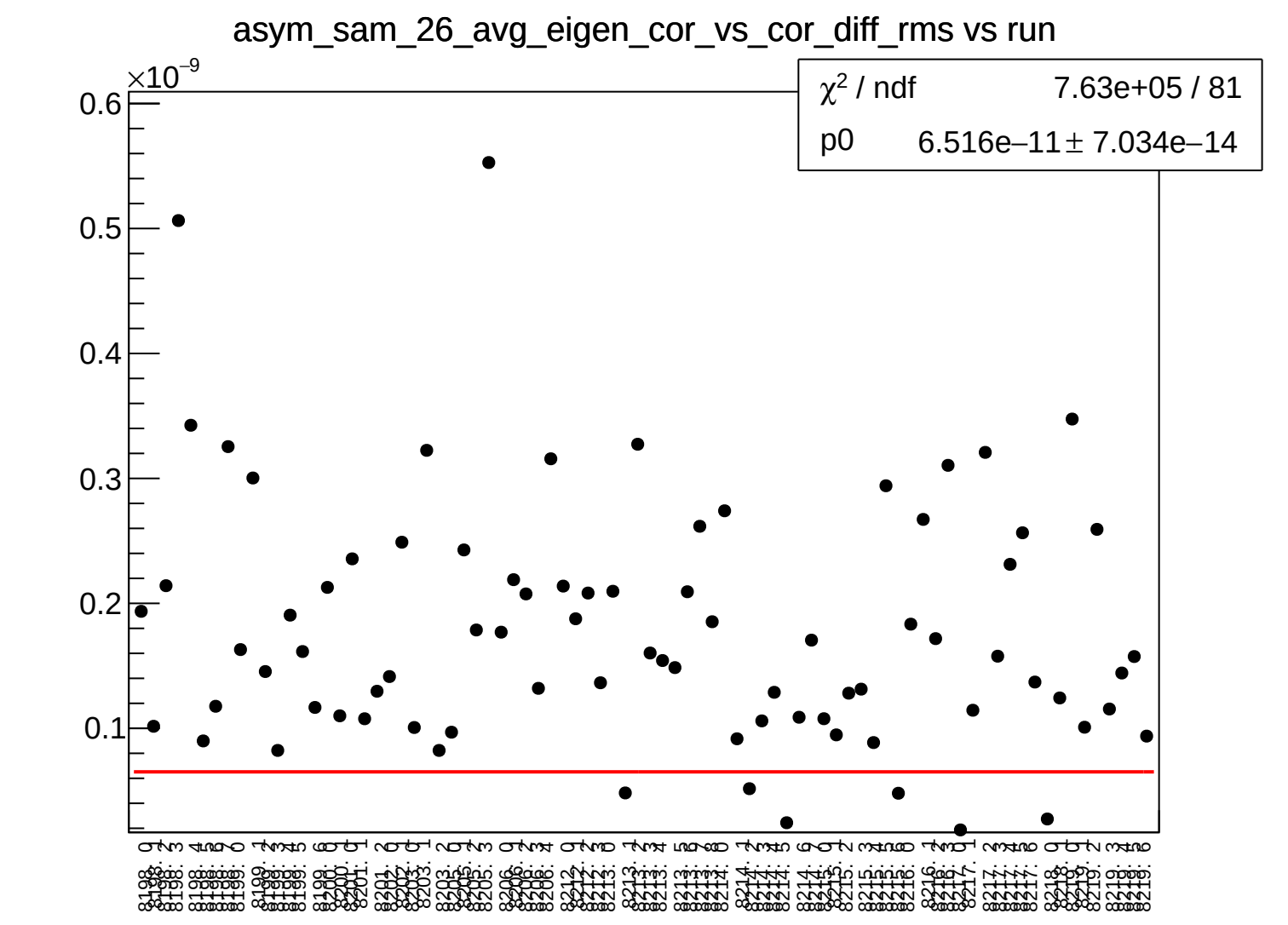

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.31e+05 / 81
p0 83.21 ± 0.06816
180
160
140
120
100
80
60

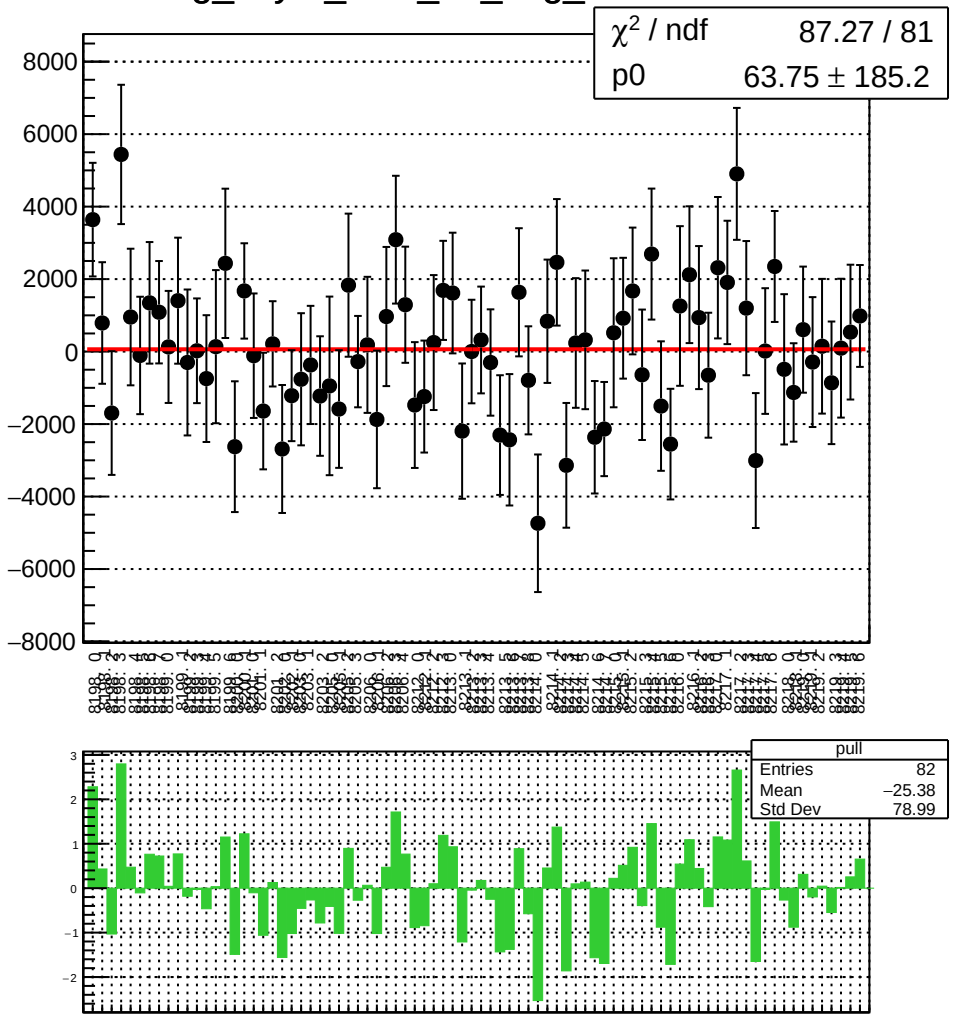

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.12 / 81
p0 0.02643 ± 0.0964
pull
Entries 82
Mean 14.21
Std Dev 0
pull1D
Entries 82
Mean 0.04381
Std Dev 1.053

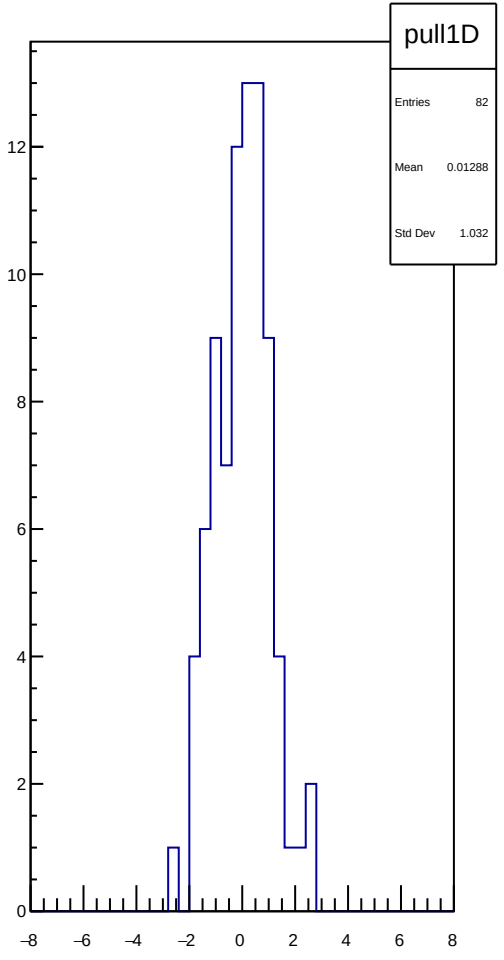

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.31e+05 / 81
p0 83.21 ± 0.06816
180
160
140
120
100
80
60

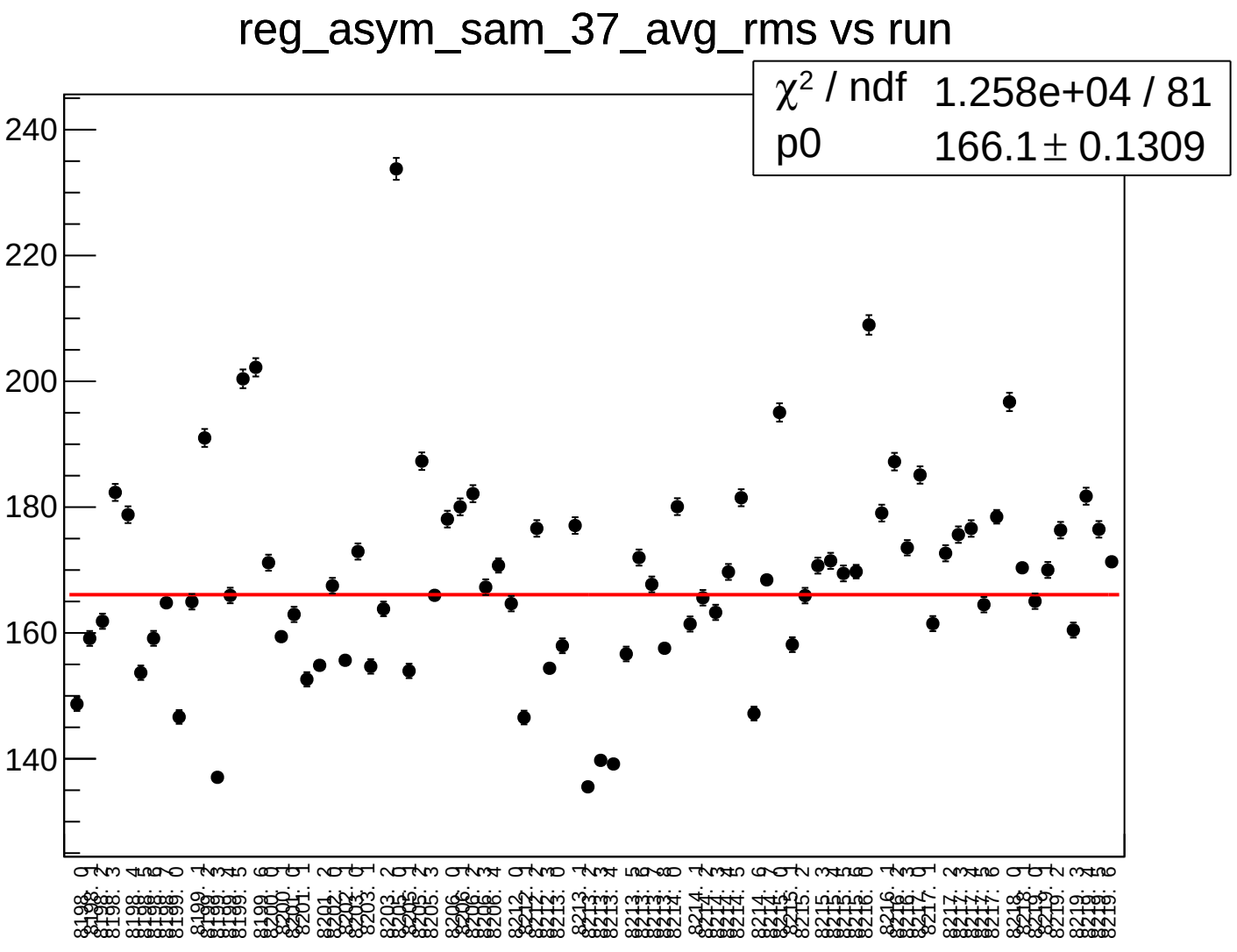

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.24 / 81
p0 −6.371e−14 ± 9.948e−14
pull
Entries 82
Mean −140.4
Std Dev 0

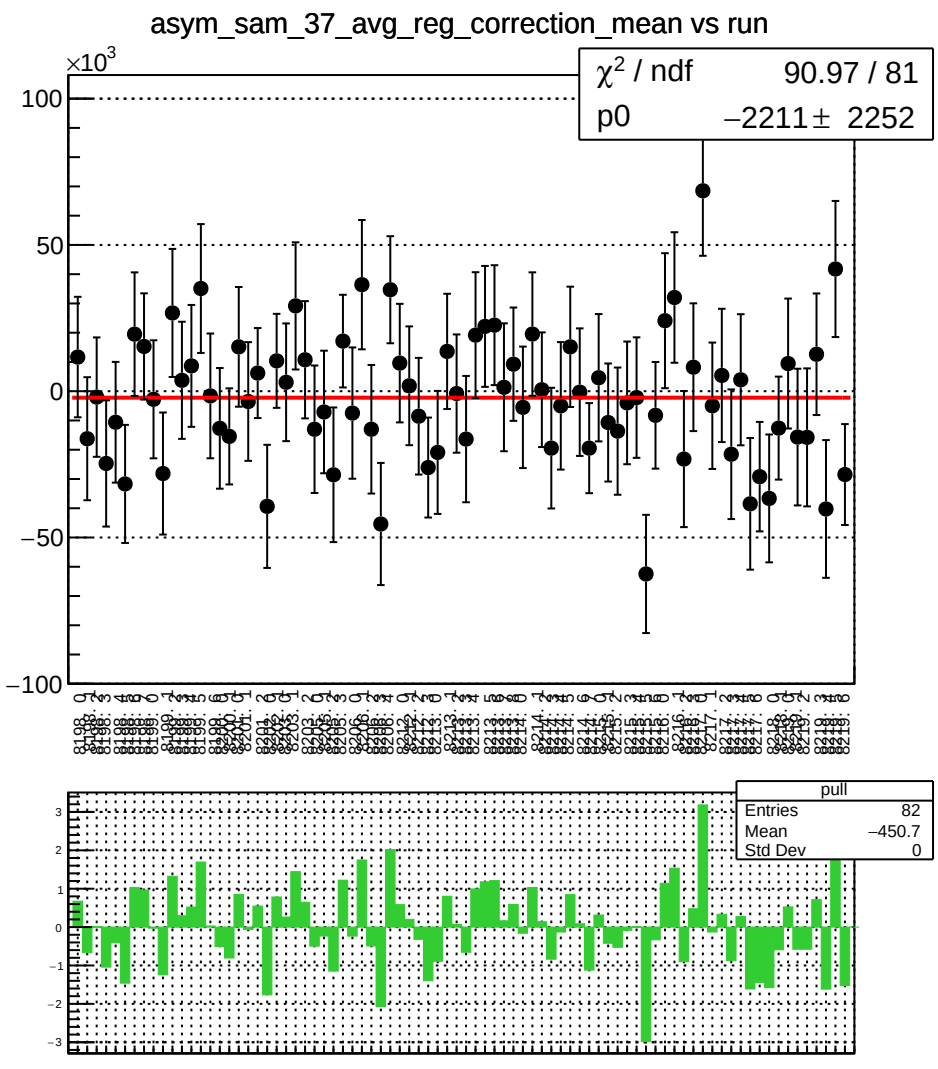

pull1D
Entries 82
Mean 0.0303
Std Dev 0.9949

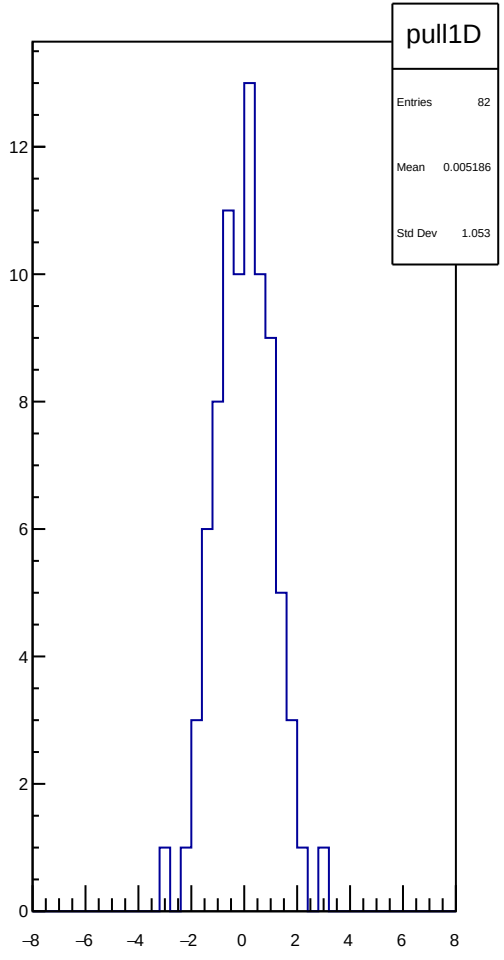

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.63e+05 / 81
p0 6.516e−11 ± 7.034e−14
0.6
0.5
0.4
0.3
0.2
0.1

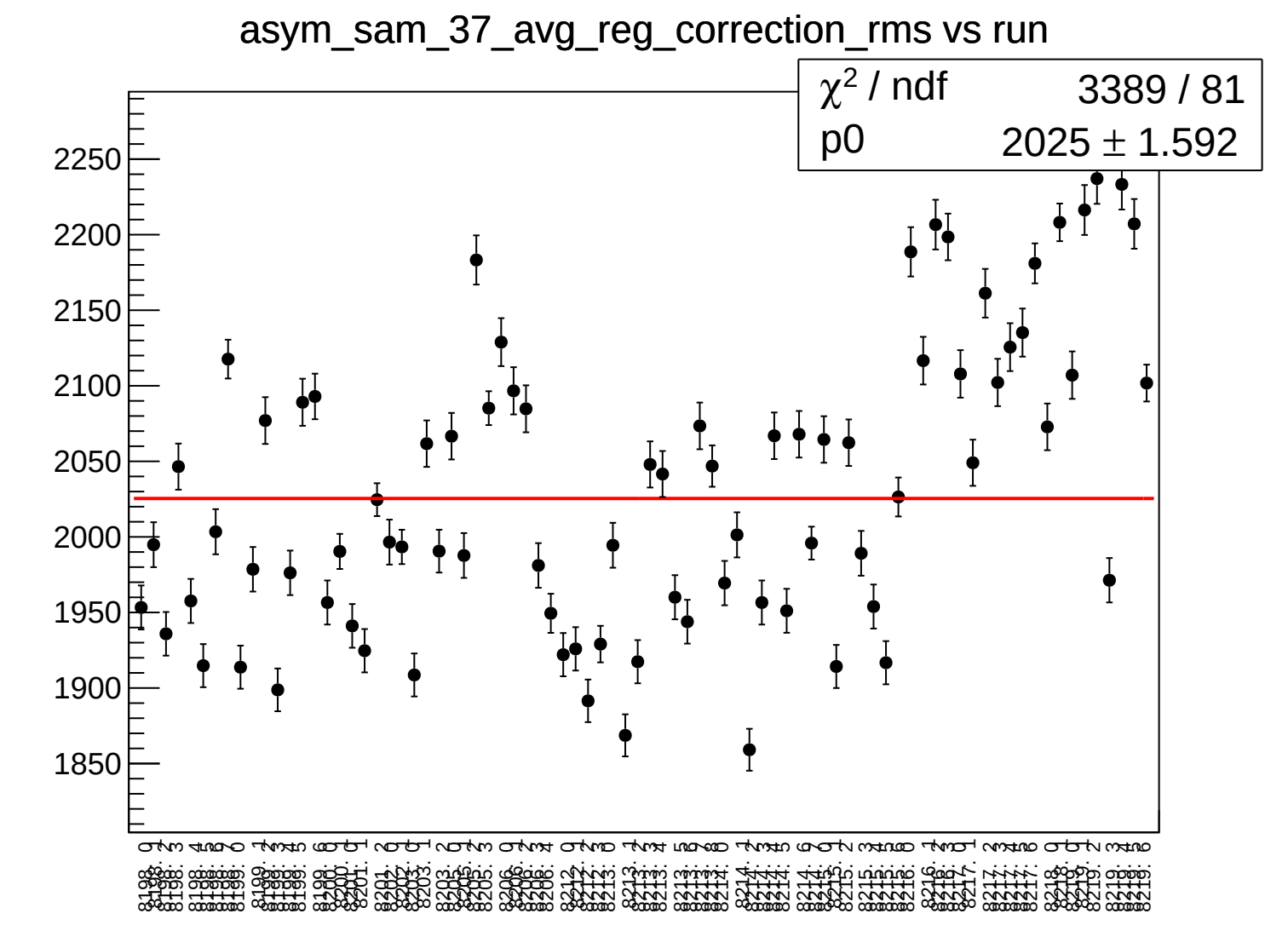

reg_asym_sam_37_avg_mean vs run
χ² / ndf 87.27 / 81
p0 63.75 ± 185.2
pull
Entries 82
Mean −25.38
Std Dev 78.99

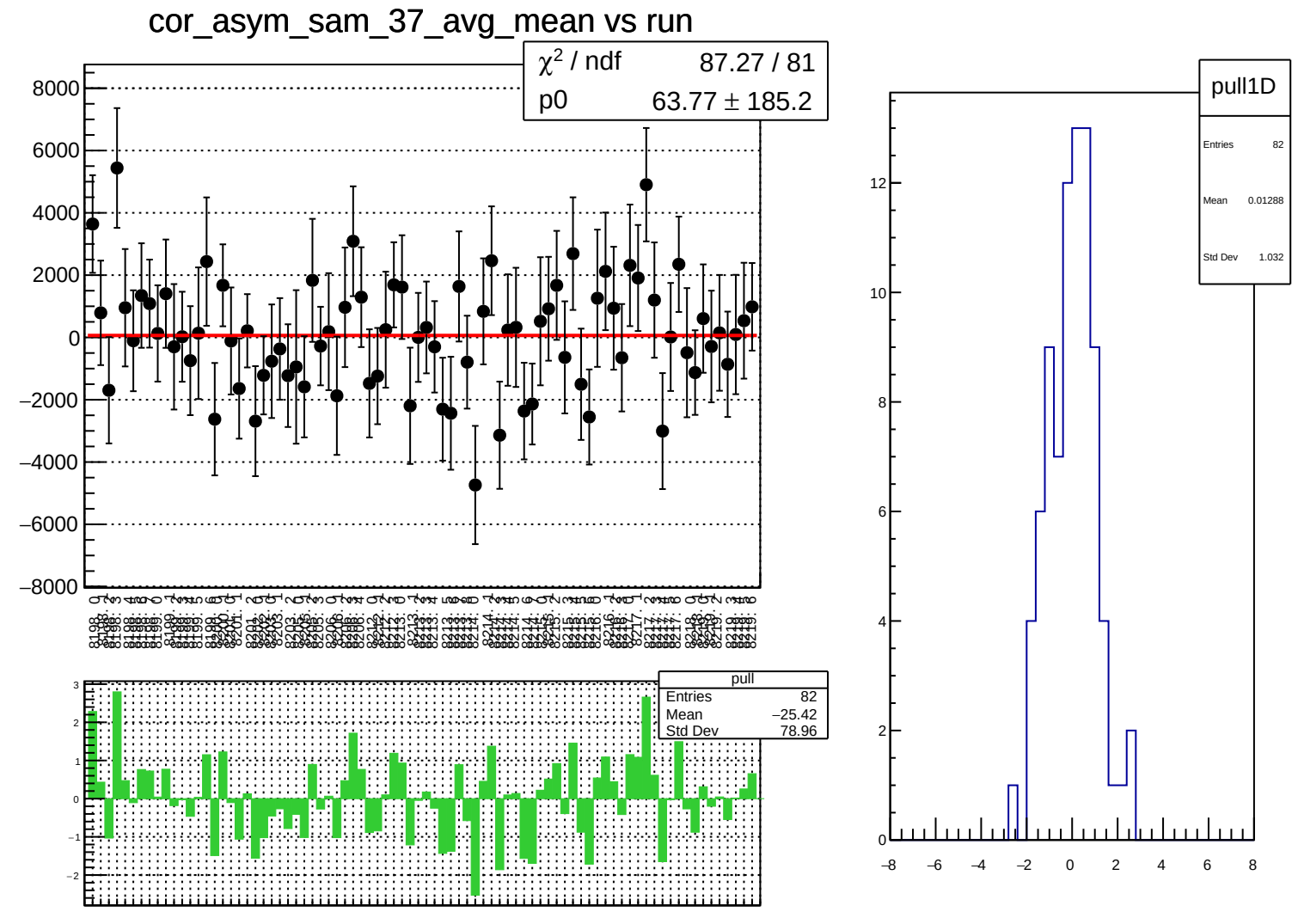

pull1D
Entries 82
Mean 0.01288
Std Dev 1.032

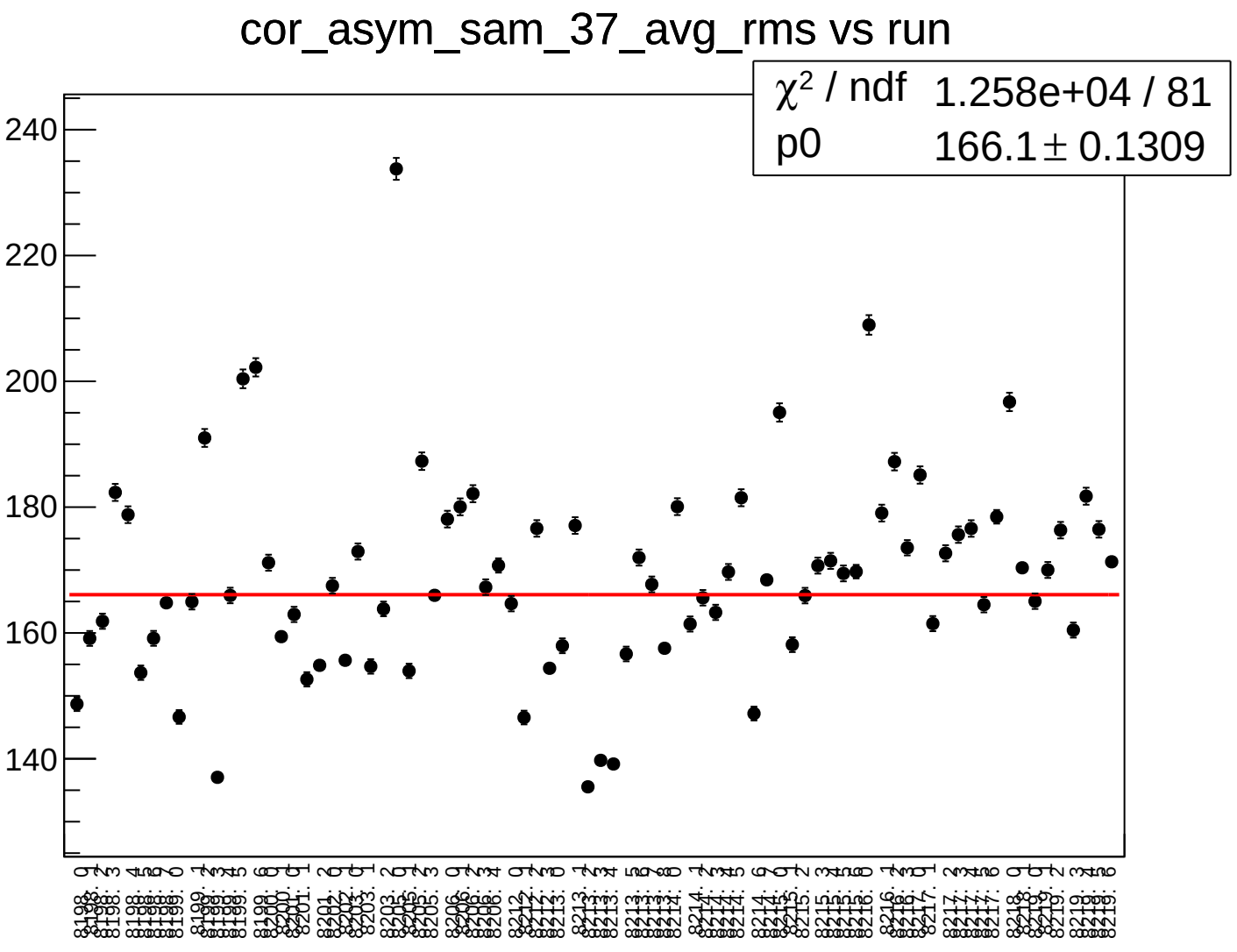

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.258e+04 / 81
p0 166.1 ± 0.1309
240
220
200
180
160
140

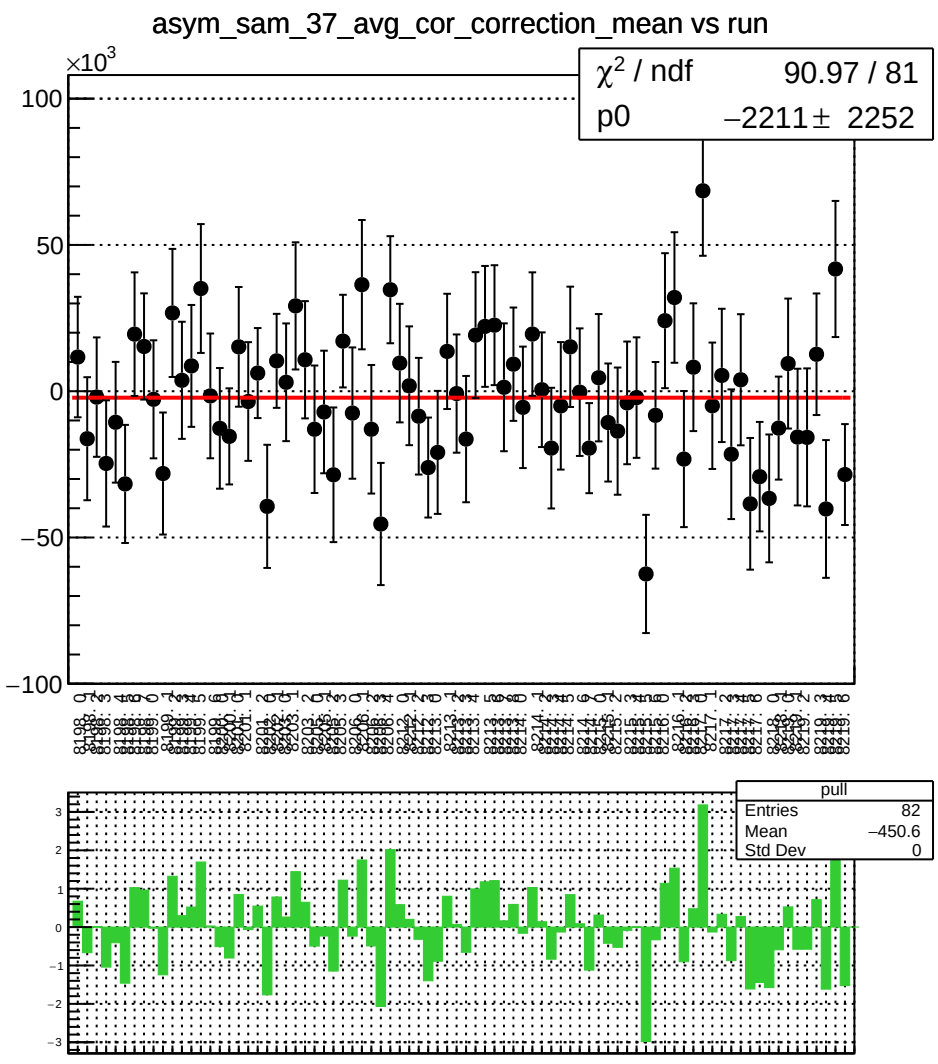

asym_sam_37_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.97 / 81
p0 −2211 ± 2252
100
50
0
−50
−100
pull
Entries 82
Mean −450.7
Std Dev 0
3
2
1
0
−1
−2
−3

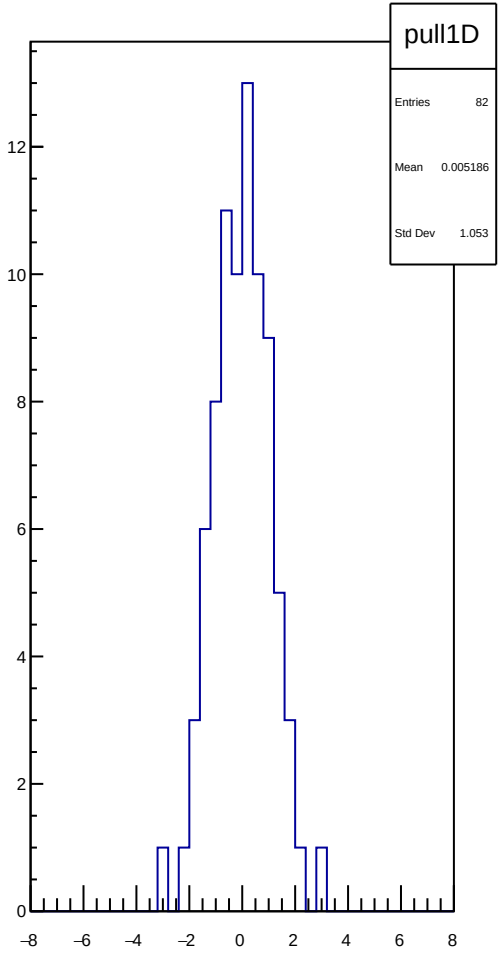

pull1D
Entries 82
Mean 0.005186
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

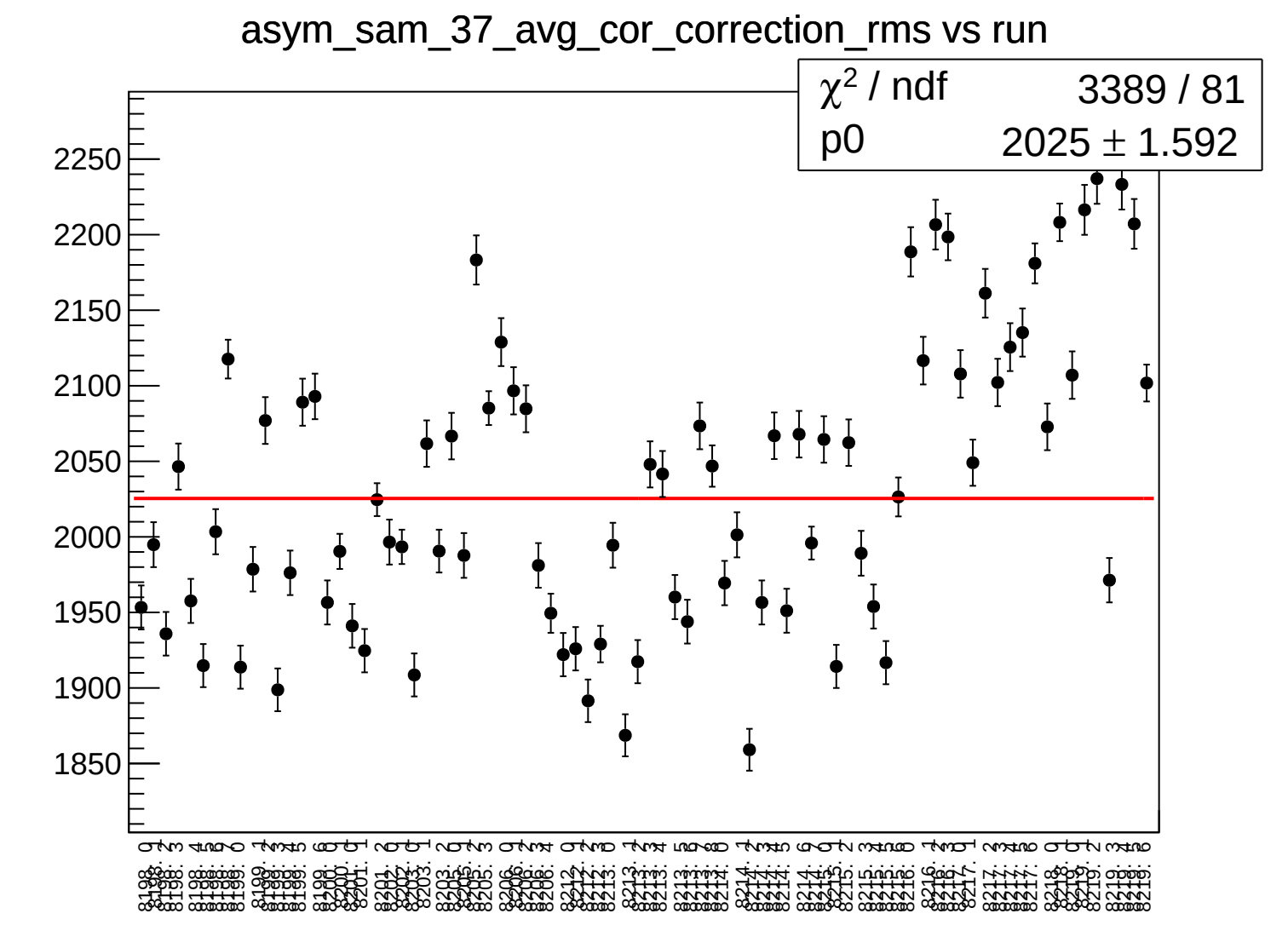

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 3389 / 81
p0 2025 ± 1.592
2250
2200
2150
2100
2050
2000
1950
1900
1850

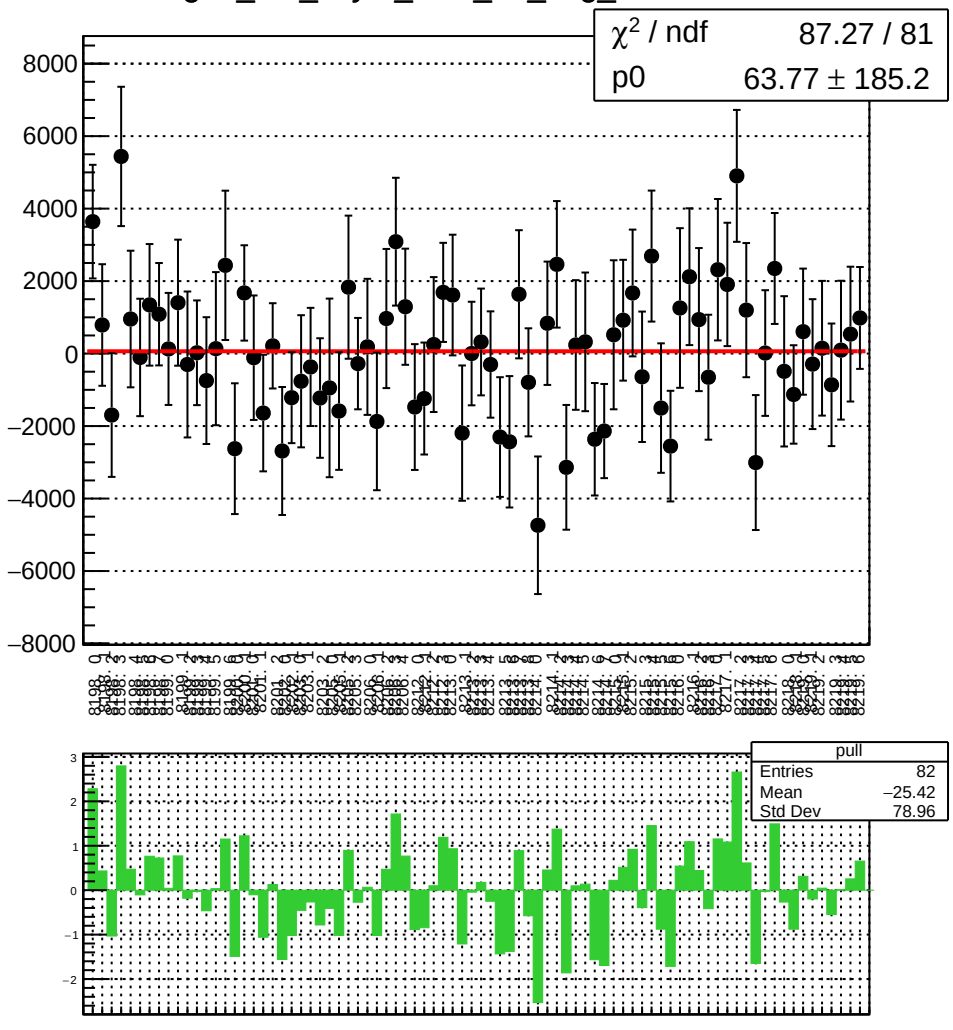

cor_asym_sam_37_avg_mean vs run
χ² / ndf 87.27 / 81
p0 63.77 ± 185.2
pull
Entries 82
Mean −25.42
Std Dev 78.96
pull1D
Entries 82
Mean 0.01288
Std Dev 1.032

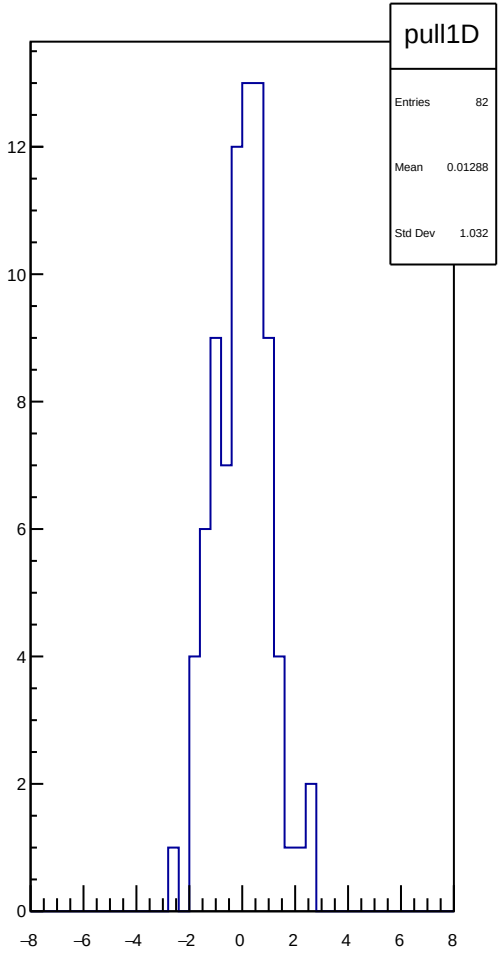

cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.258e+04 / 81
p0 166.1 ± 0.1309
240
220
200
180
160
140

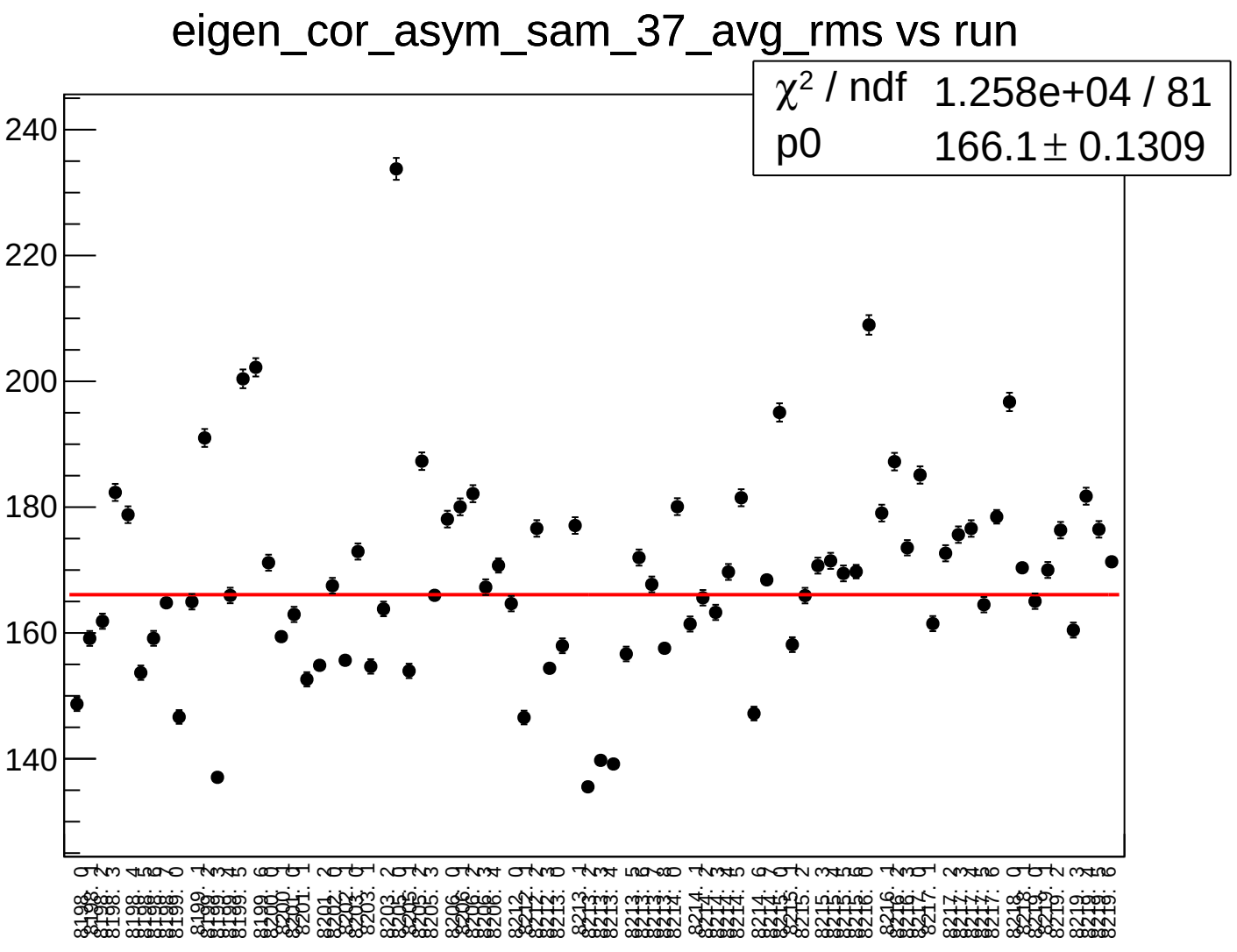

asym_sam_37_avg_cor_correction_mean vs run
×10^3
χ² / ndf 90.97 / 81
p0 −2211 ± 2252
100
50
0
−50
−100
pull
Entries 82
Mean −450.6
Std Dev 0
3
2
1
0
−1
−2
−3

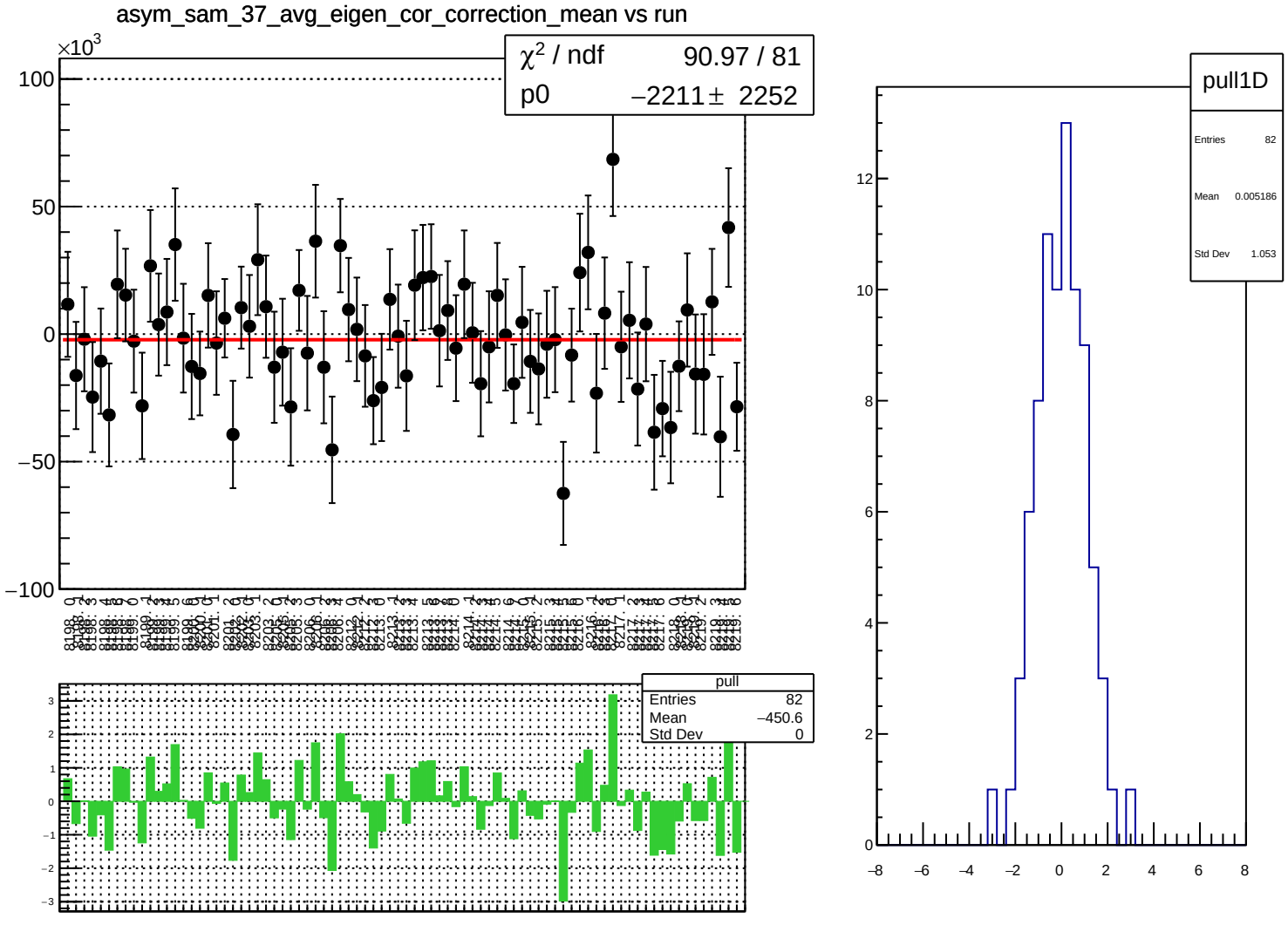

pull1D
Entries 82
Mean 0.005186
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

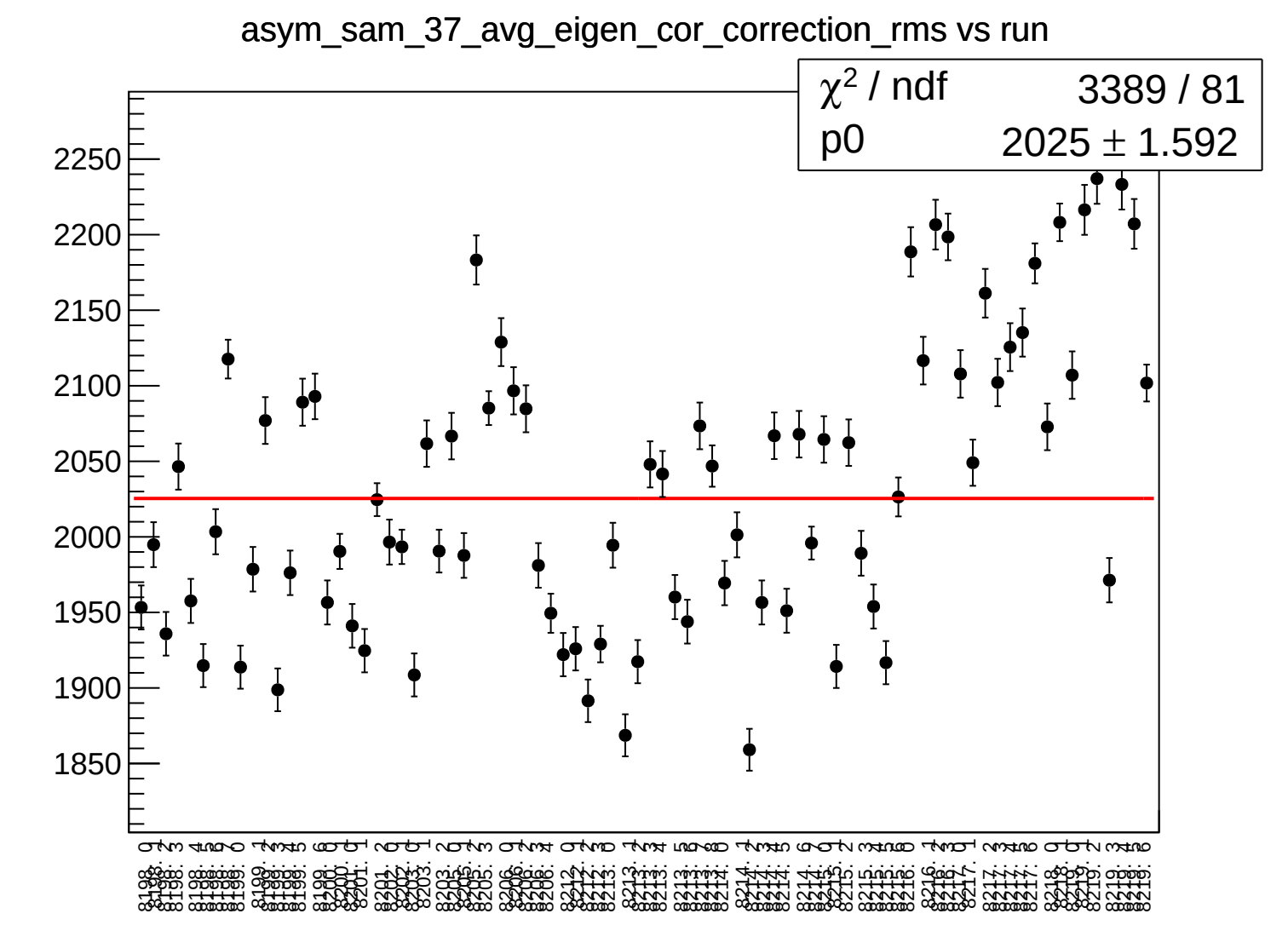

asym_sam_37_avg_cor_correction_rms vs run
$\chi^2$ / ndf 3389 / 81
p0 2025 ± 1.592
2250
2200
2150
2100
2050
2000
1950
1900
1850

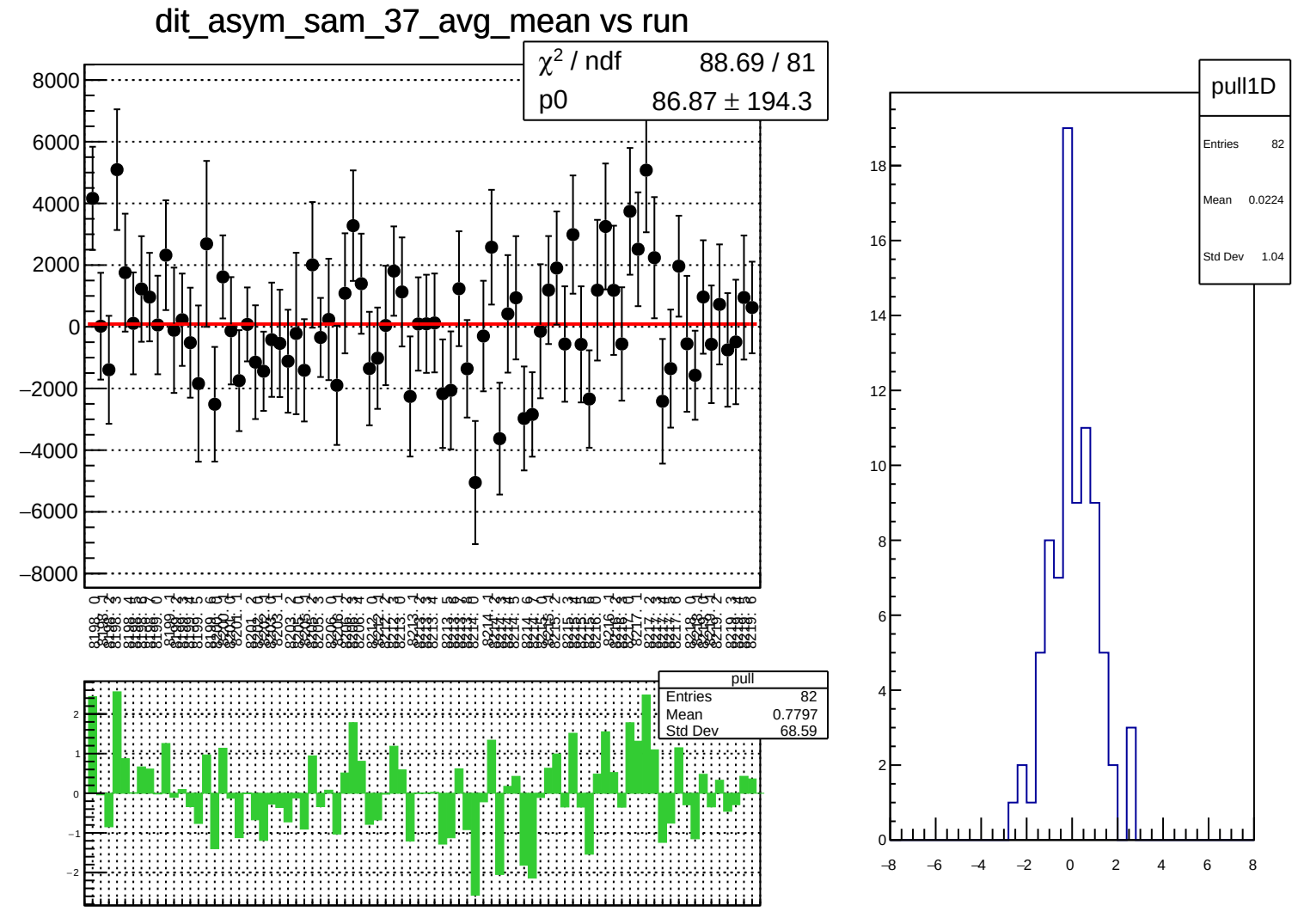

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 87.27 / 81
p0 63.77 ± 185.2
pull
Entries 82
Mean −25.42
Std Dev 78.96

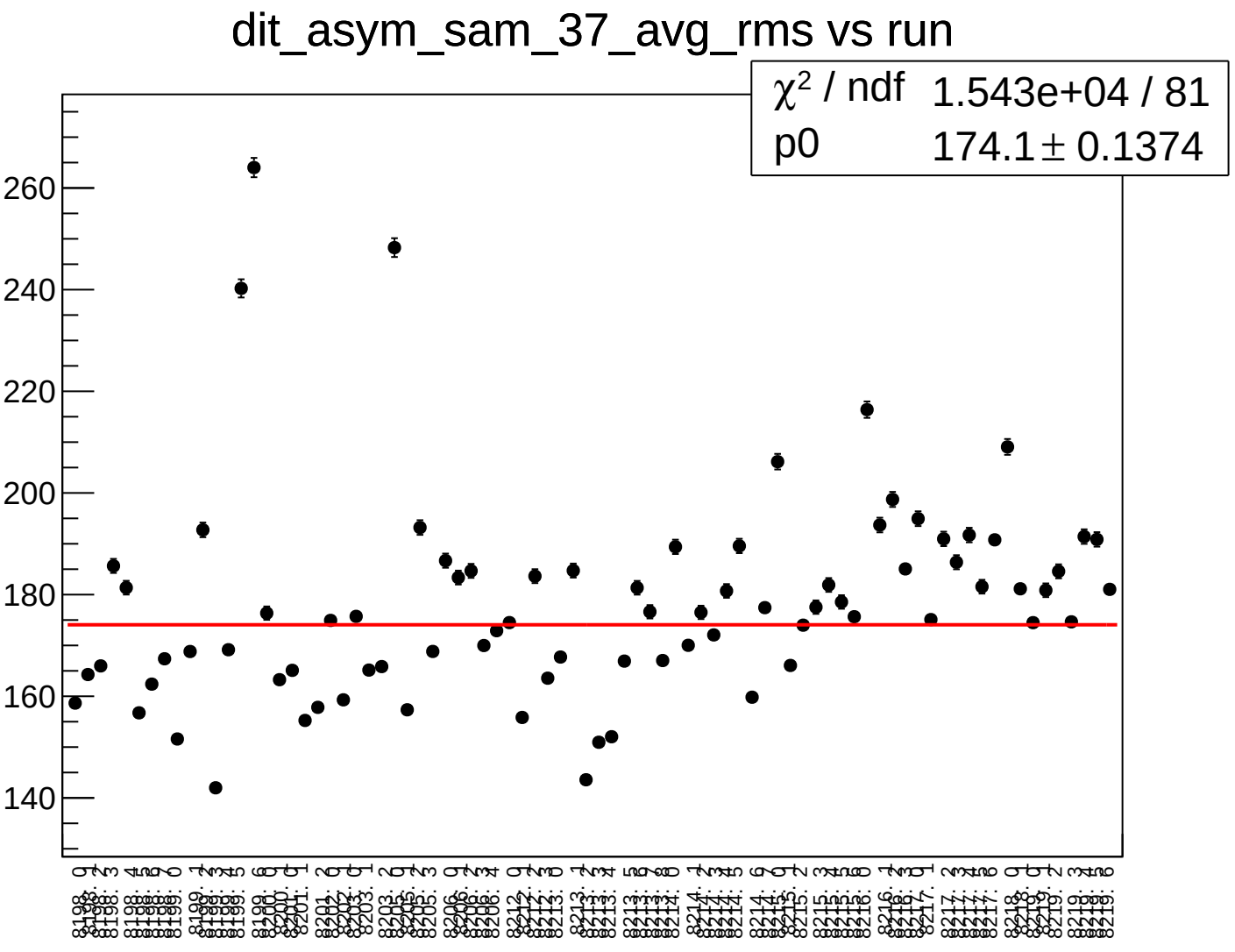

pull1D
Entries 82
Mean 0.01288
Std Dev 1.032

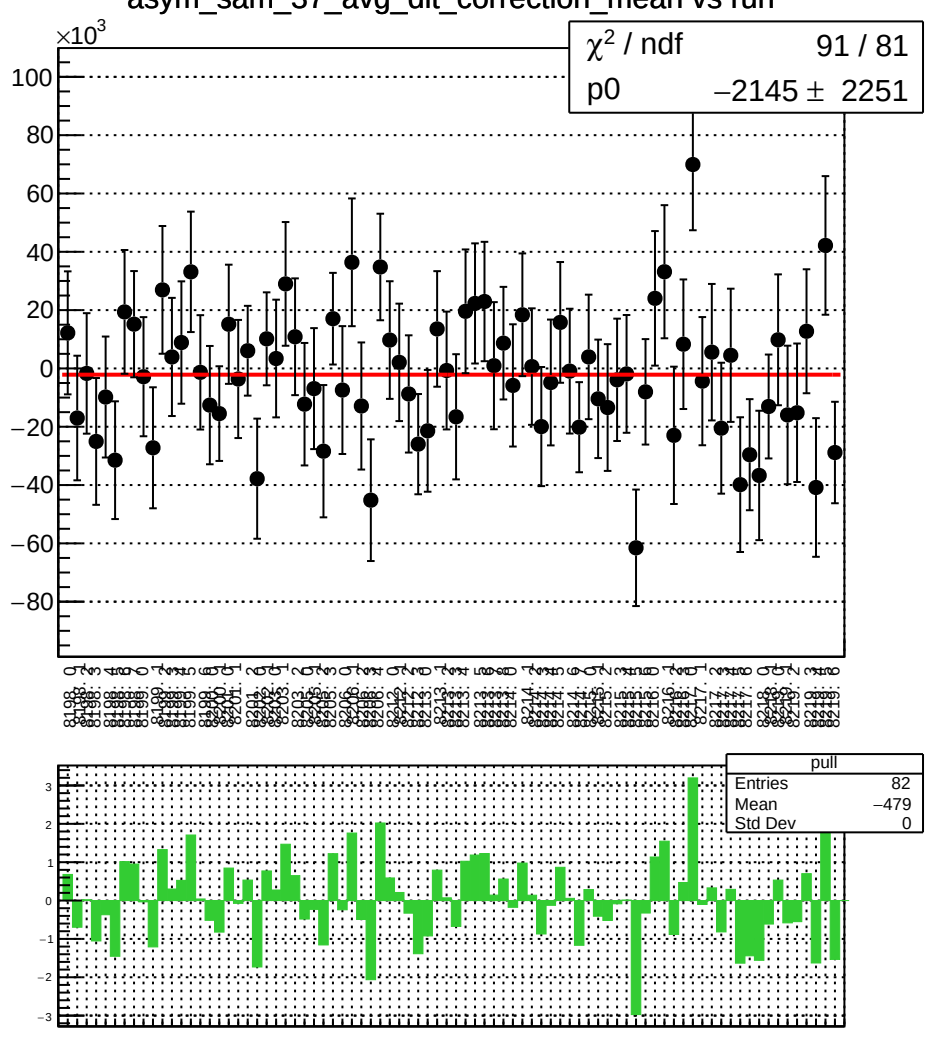

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.258e+04 / 81
p0 166.1 ± 0.1309
240
220
200
180
160
140

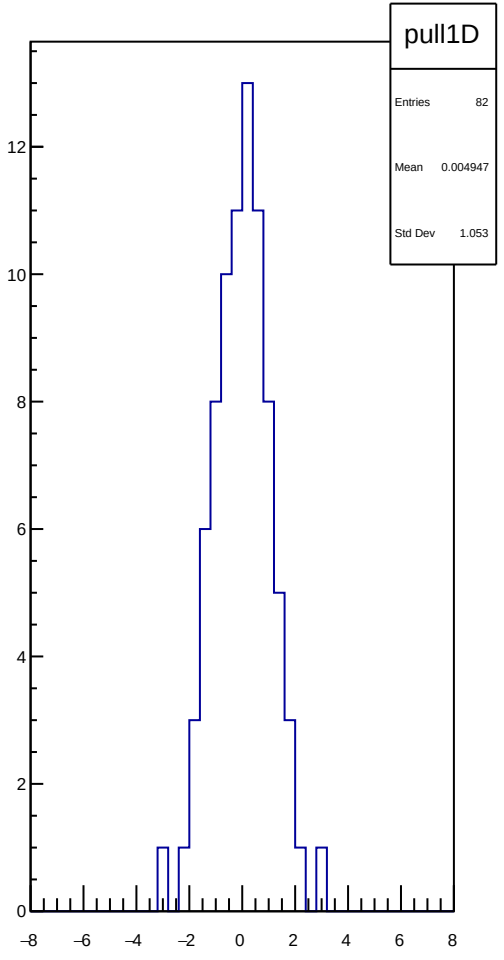

asym_sam_37_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.97 / 81
p0 −2211 ± 2252
100
50
0
−50
−100
pull
Entries 82
Mean −450.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.005186
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

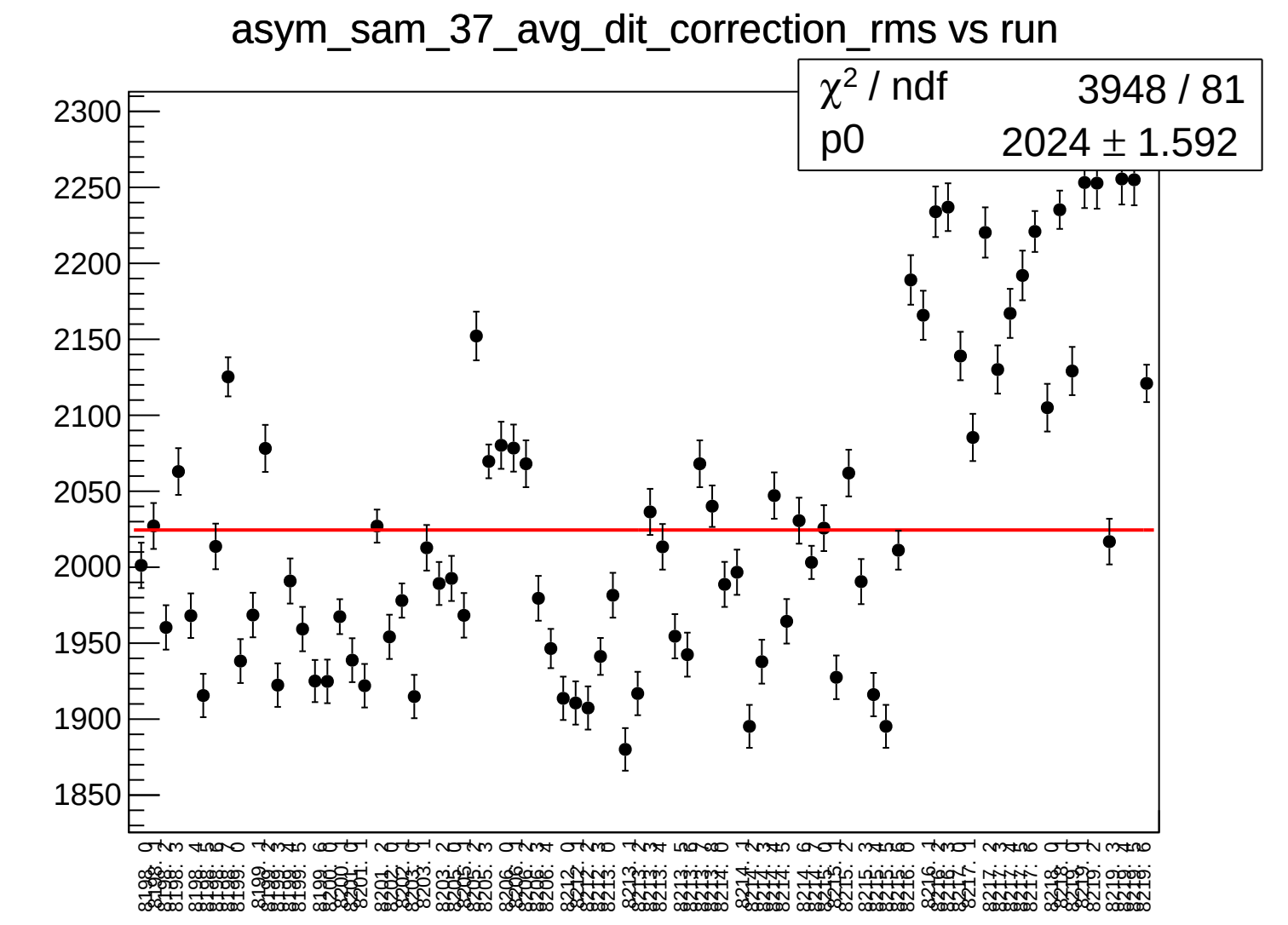

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 3389 / 81
p0 2025 ± 1.592
2250
2200
2150
2100
2050
2000
1950
1900
1850

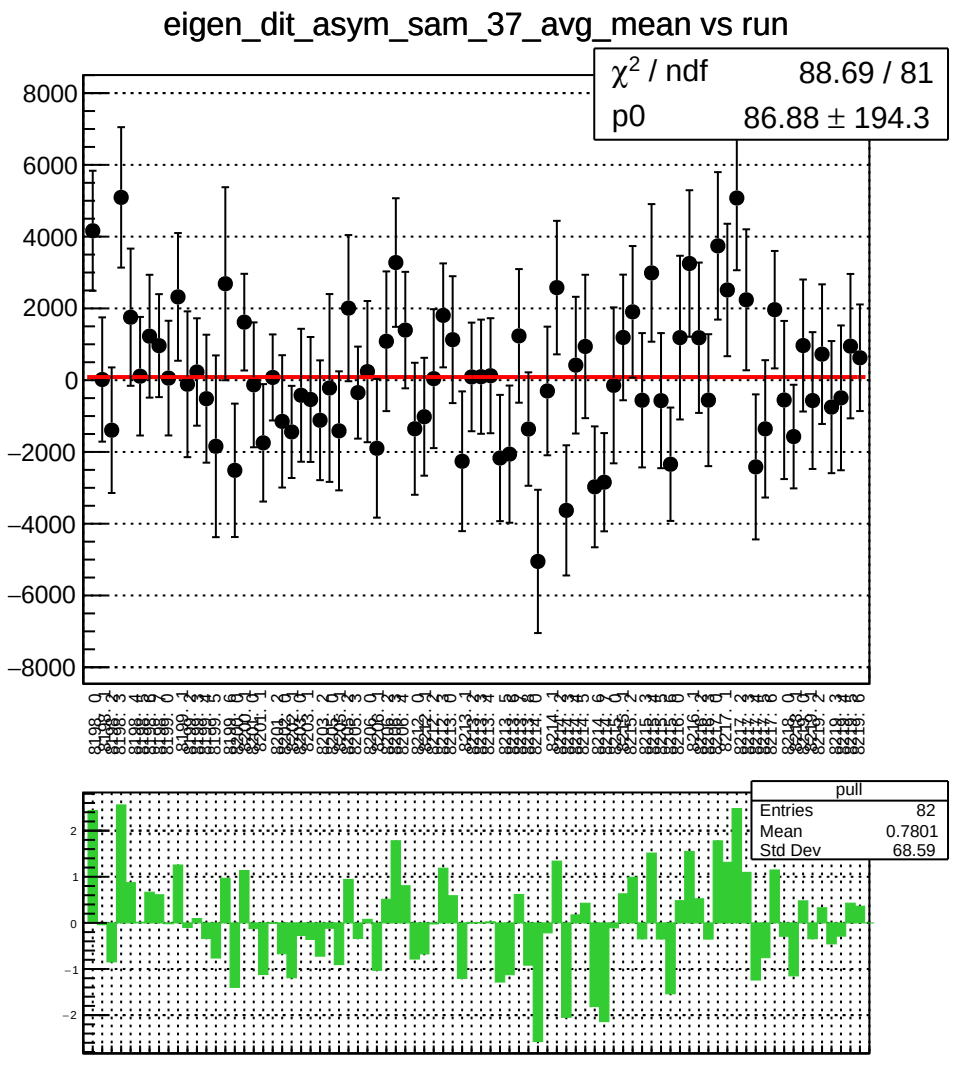

dit_asym_sam_37_avg_mean vs run
χ² / ndf 88.69 / 81
p0 86.87 ± 194.3
pull
Entries 82
Mean 0.7797
Std Dev 68.59
pull1D
Entries 82
Mean 0.0224
Std Dev 1.04

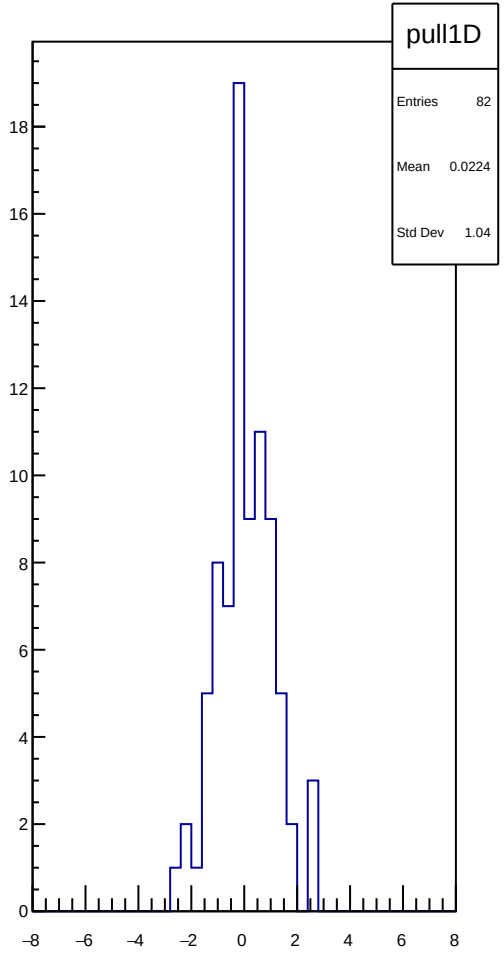

dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.543e+04 / 81
p0 174.1 ± 0.1374
260
240
220
200
180
160
140

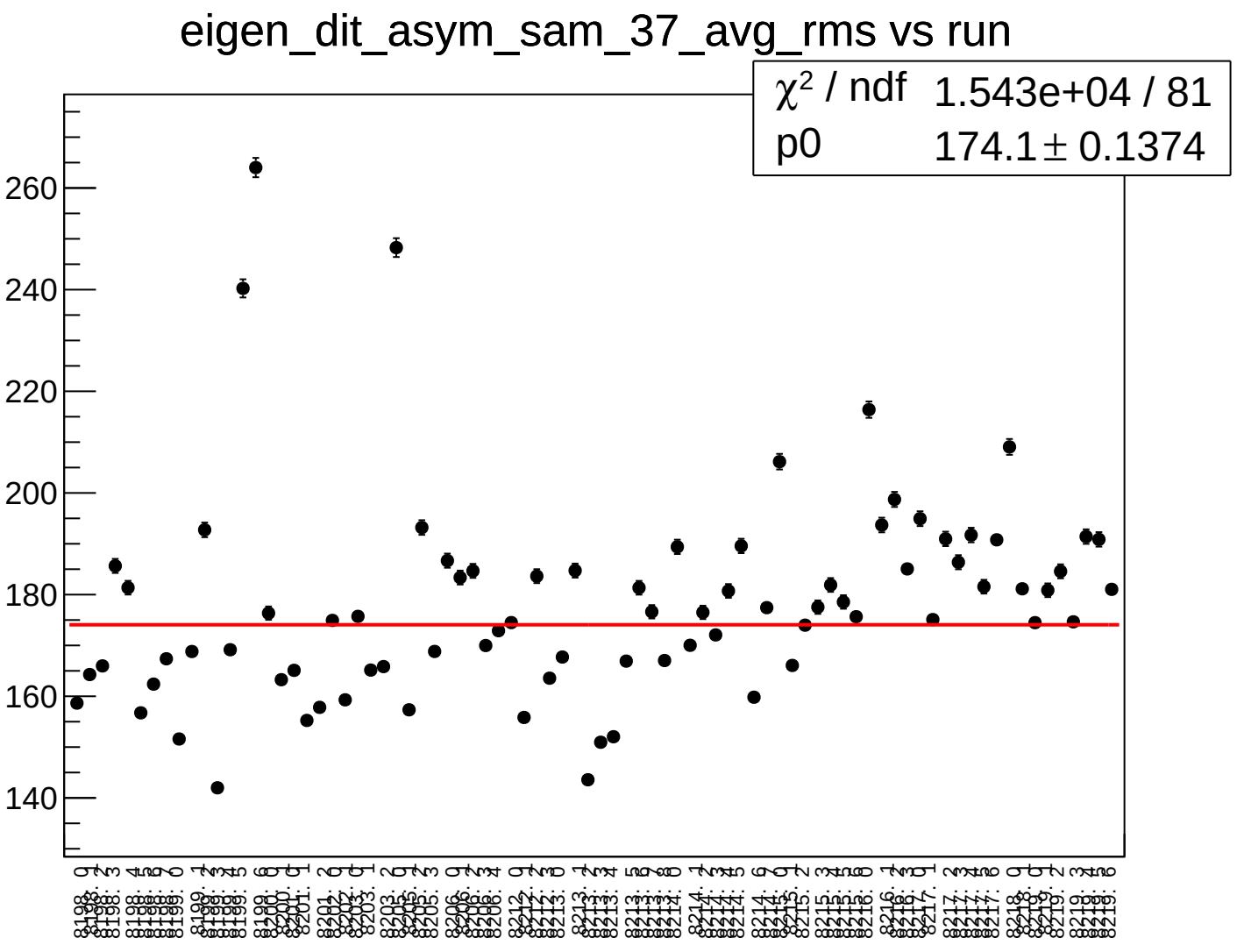

asym_sam_37_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91 / 81
p0 −2145 ± 2251
pull
Entries 82
Mean −479
Std Dev 0

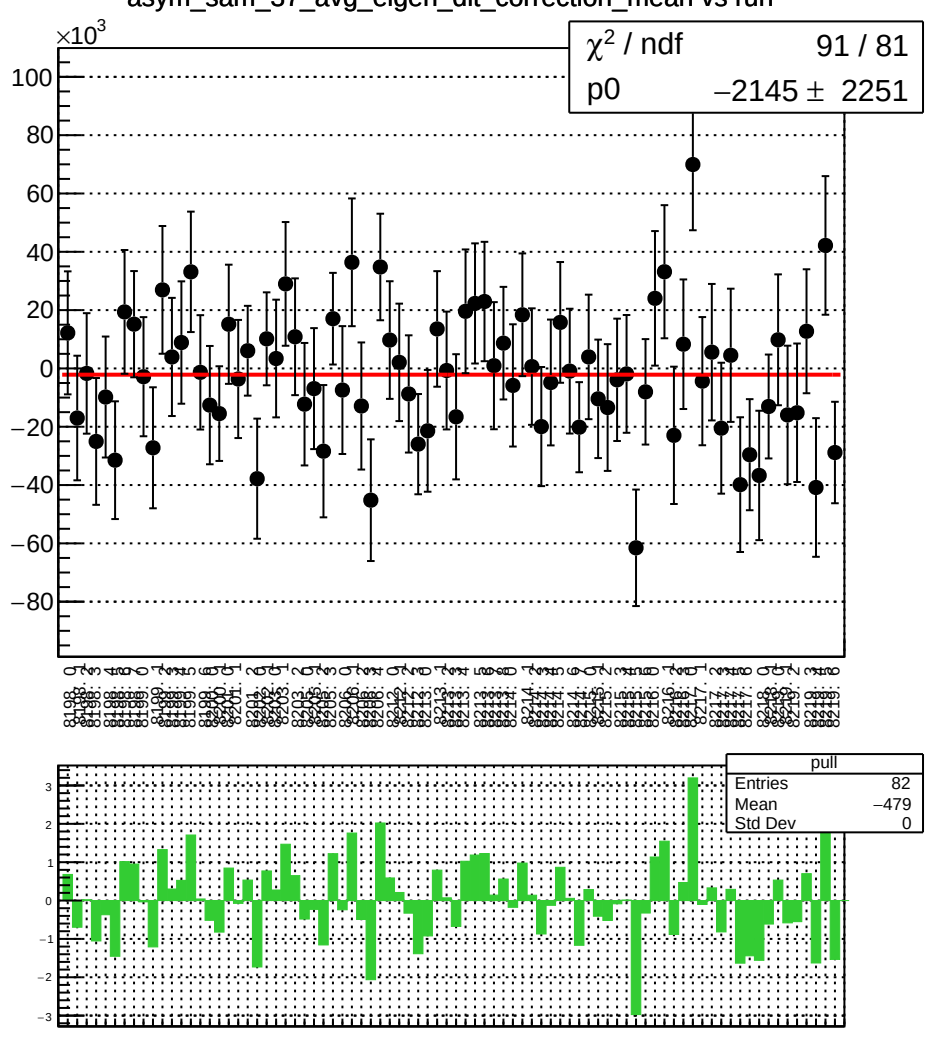

pull1D
Entries 82
Mean 0.004947
Std Dev 1.053

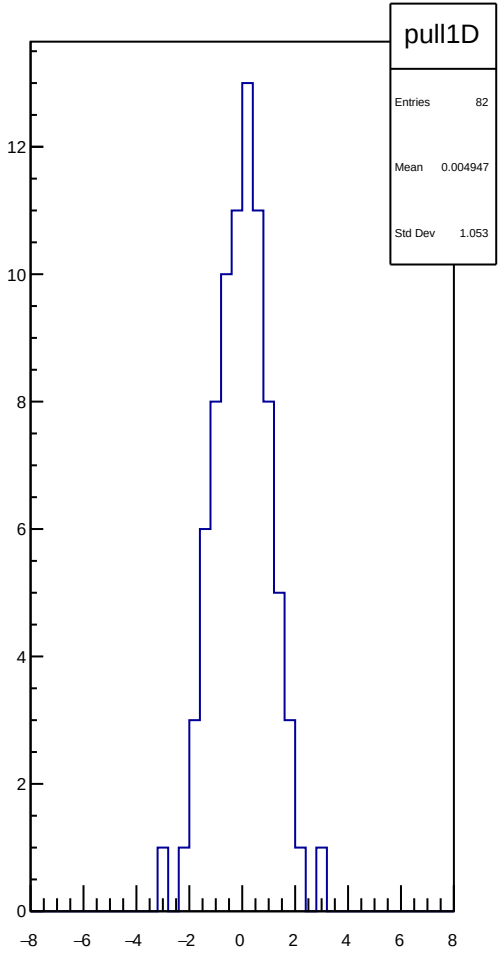

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 3948 / 81
p0 2024 ± 1.592
2300
2250
2200
2150
2100
2050
2000
1950
1900
1850

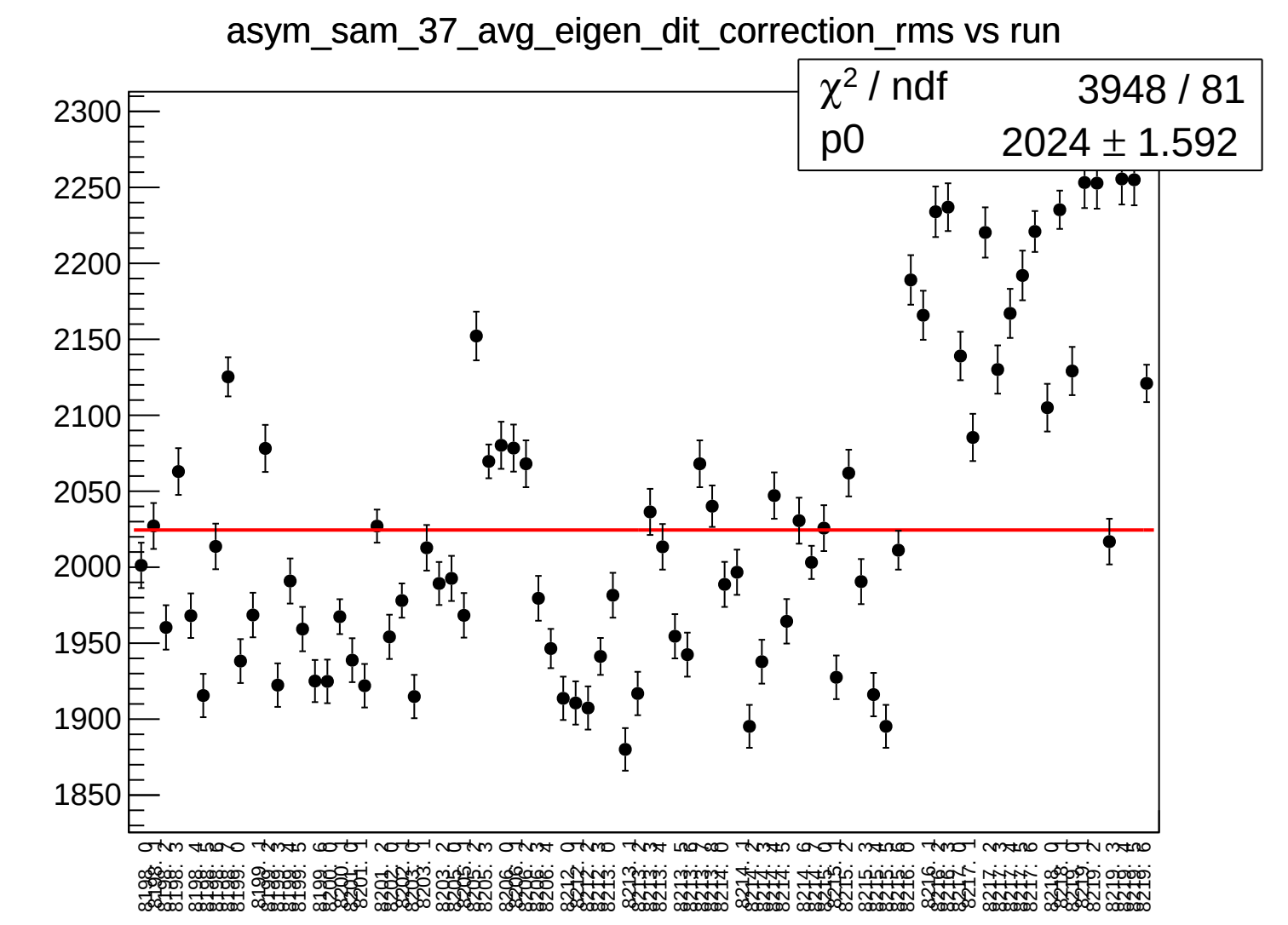

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 88.69 / 81
p0 86.88 ± 194.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 82
Mean 0.7801
Std Dev 68.59
2
1
0
−1
−2

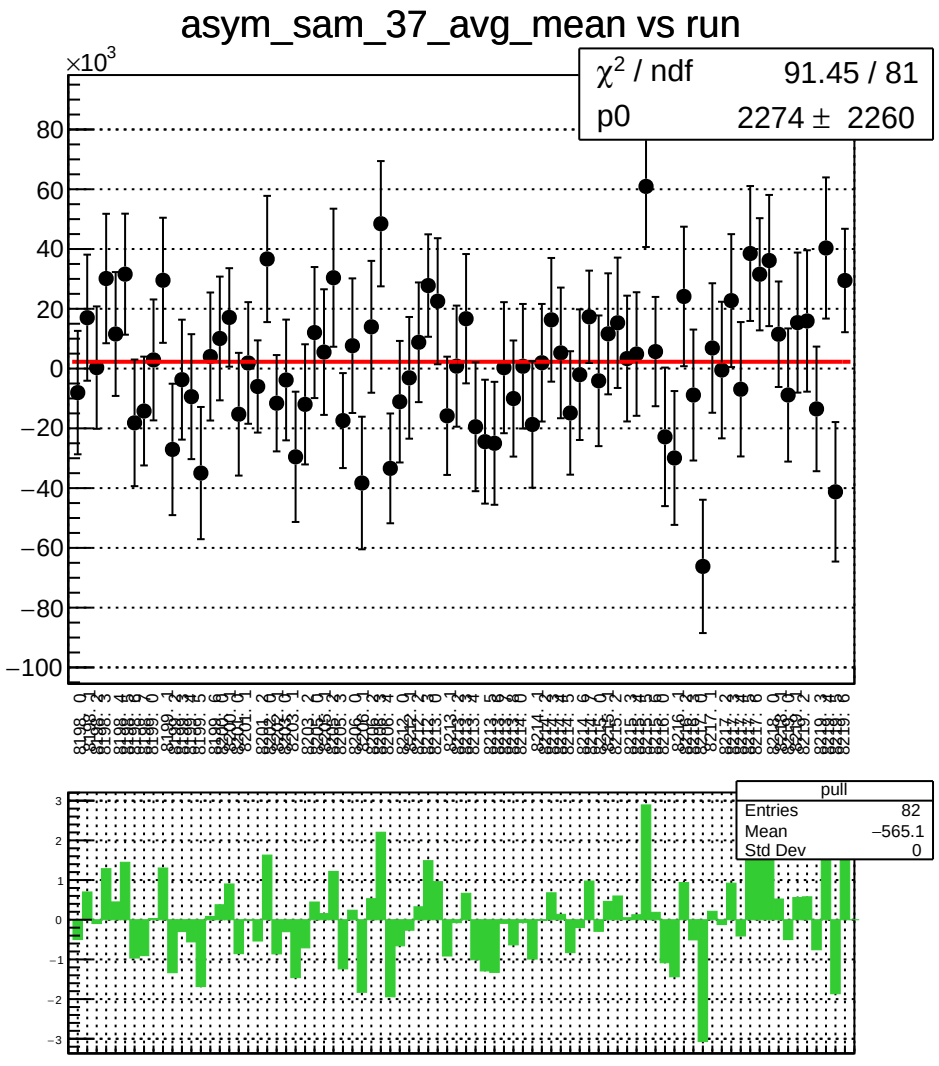

pull1D
Entries 82
Mean 0.0224
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

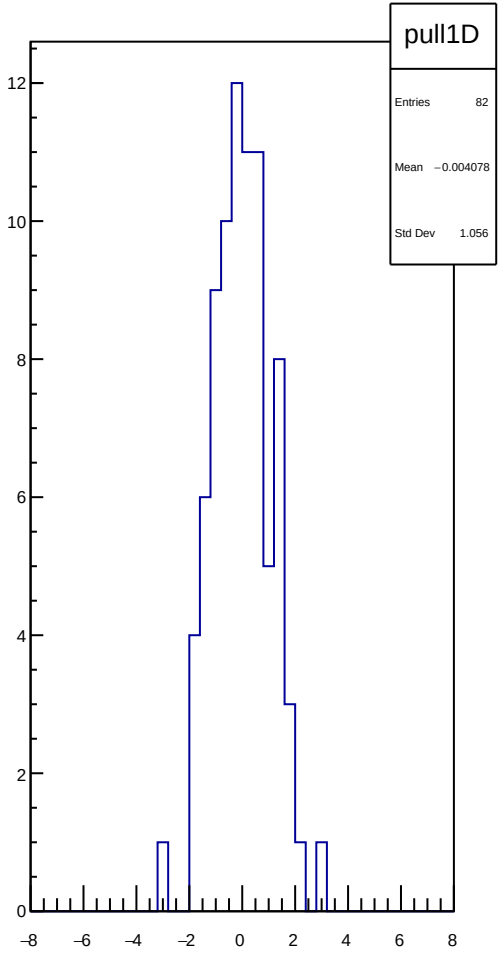

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.543e+04 / 81
p0 174.1 ± 0.1374
260
240
220
200
180
160
140

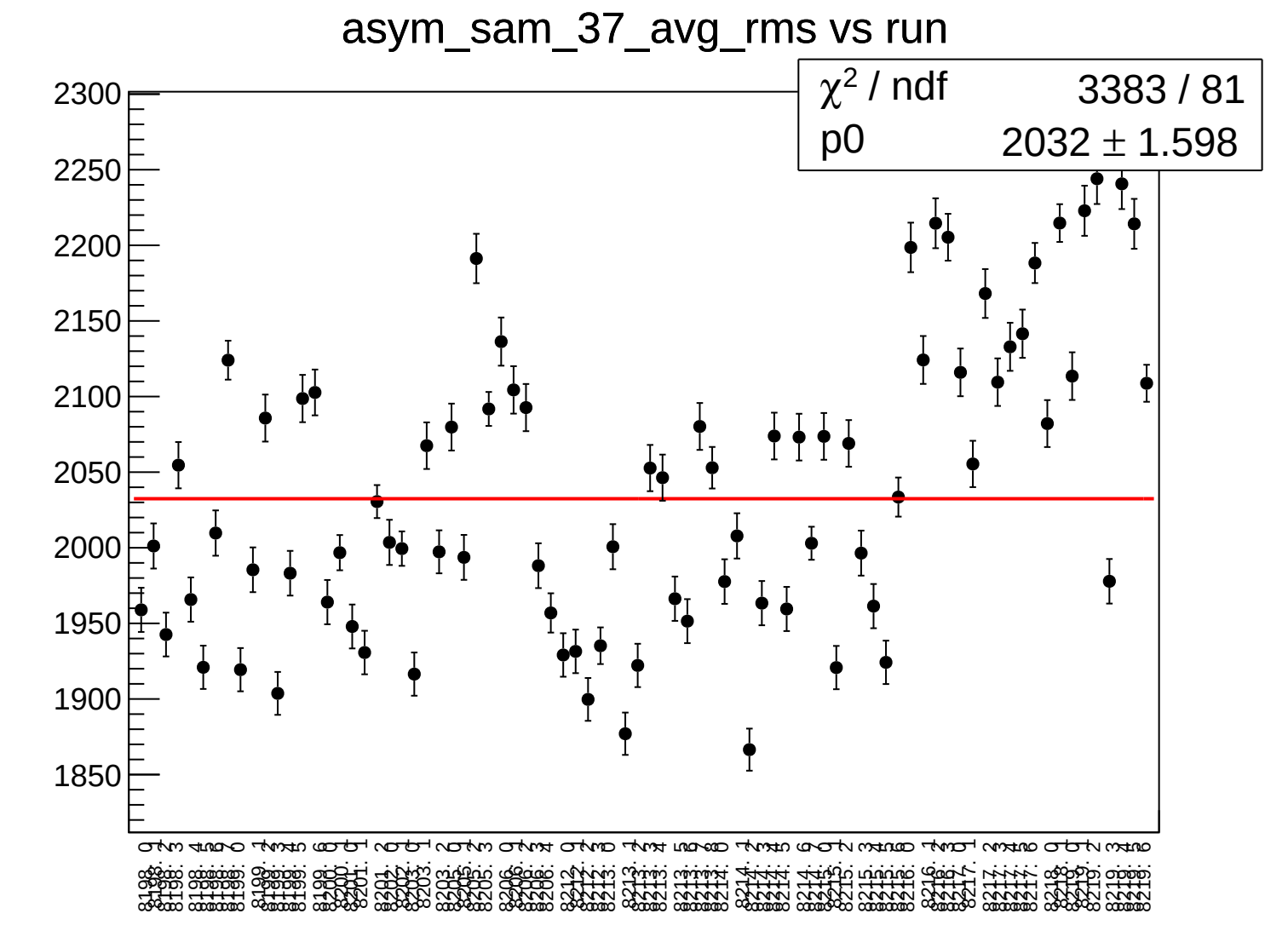

asym_sam_37_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91 / 81
p0 −2145 ± 2251
pull
Entries 82
Mean −479
Std Dev 0

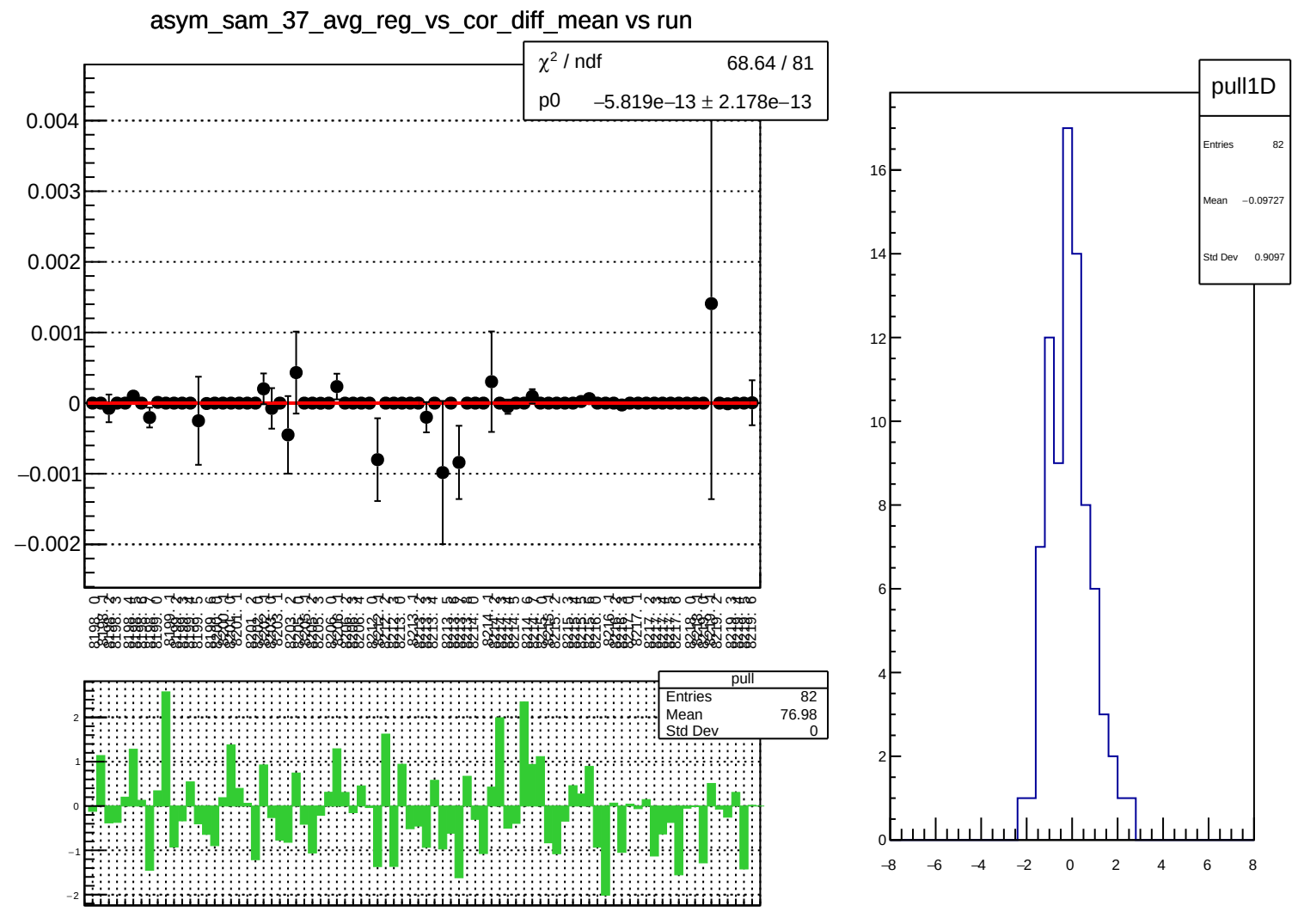

pull1D
Entries 82
Mean 0.004947
Std Dev 1.053

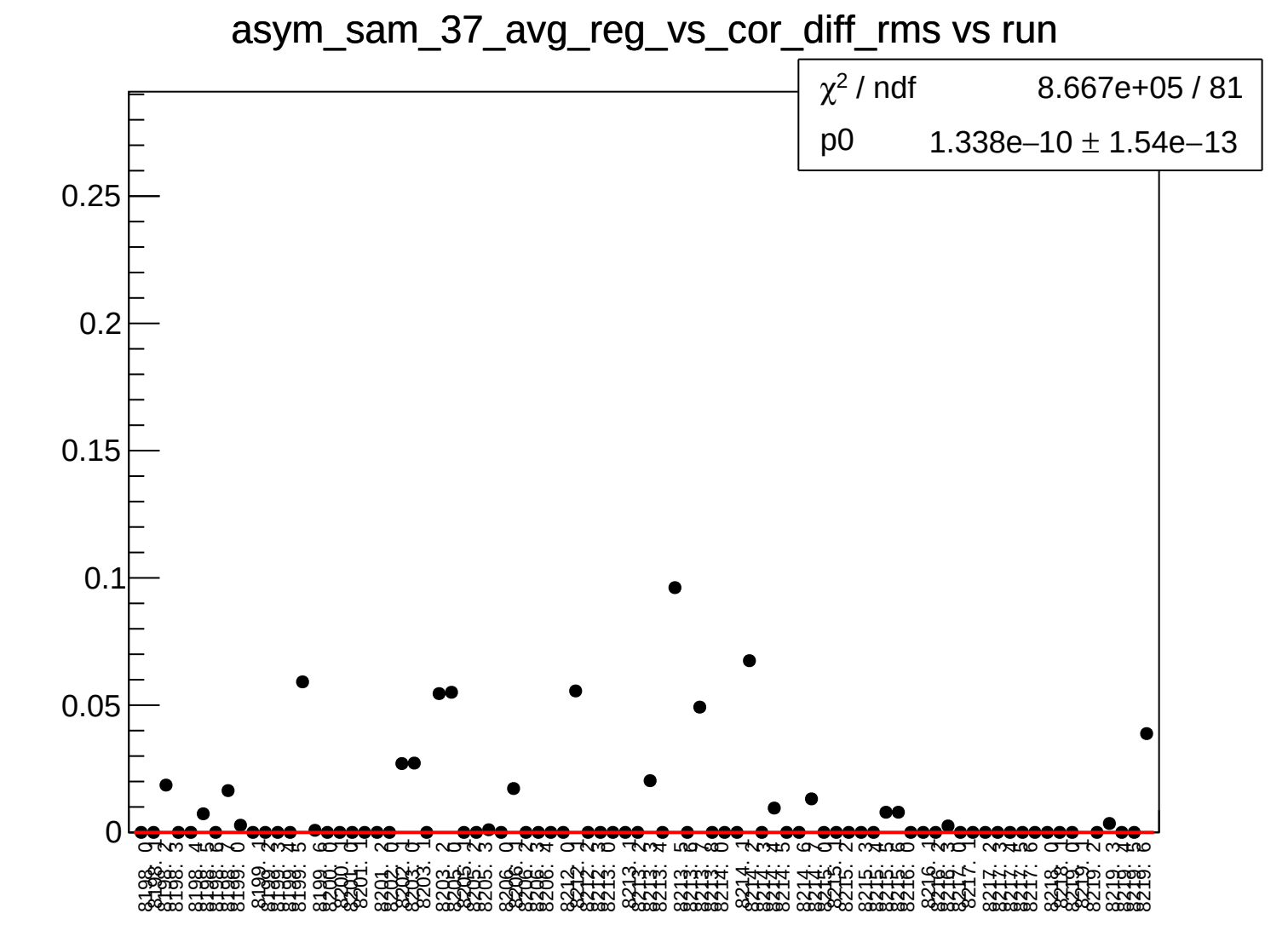

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 3948 / 81
p0 2024 ± 1.592
2300
2250
2200
2150
2100
2050
2000
1950
1900
1850

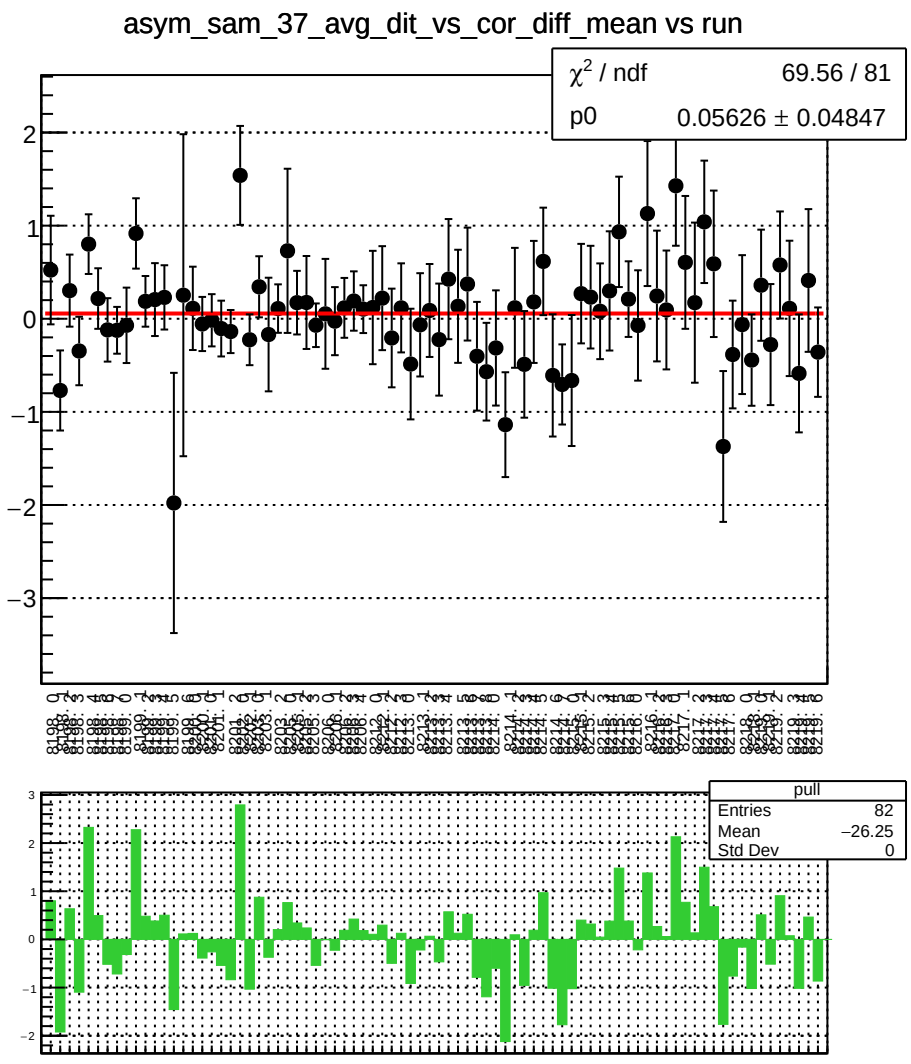

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 91.45 / 81
p0 2274 ± 2260
pull
Entries 82
Mean −565.1
Std Dev 0

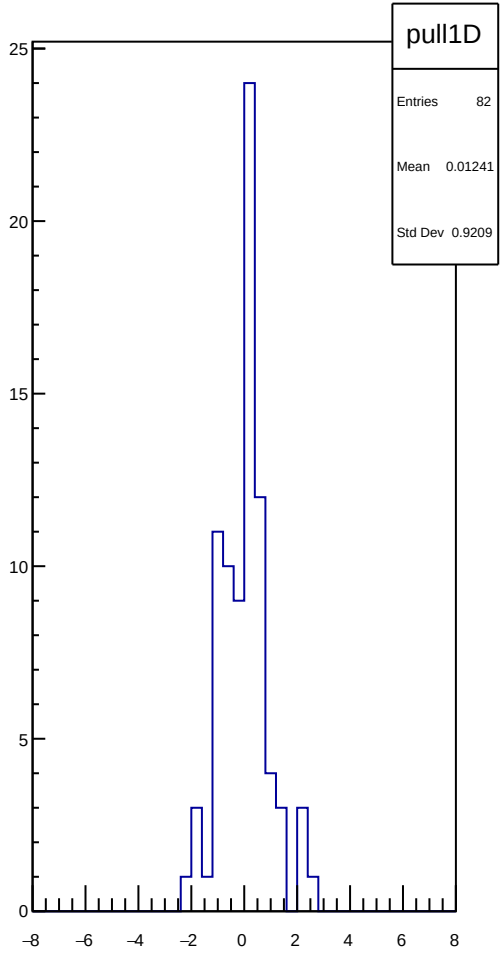

pull1D
Entries 82
Mean −0.004078
Std Dev 1.056

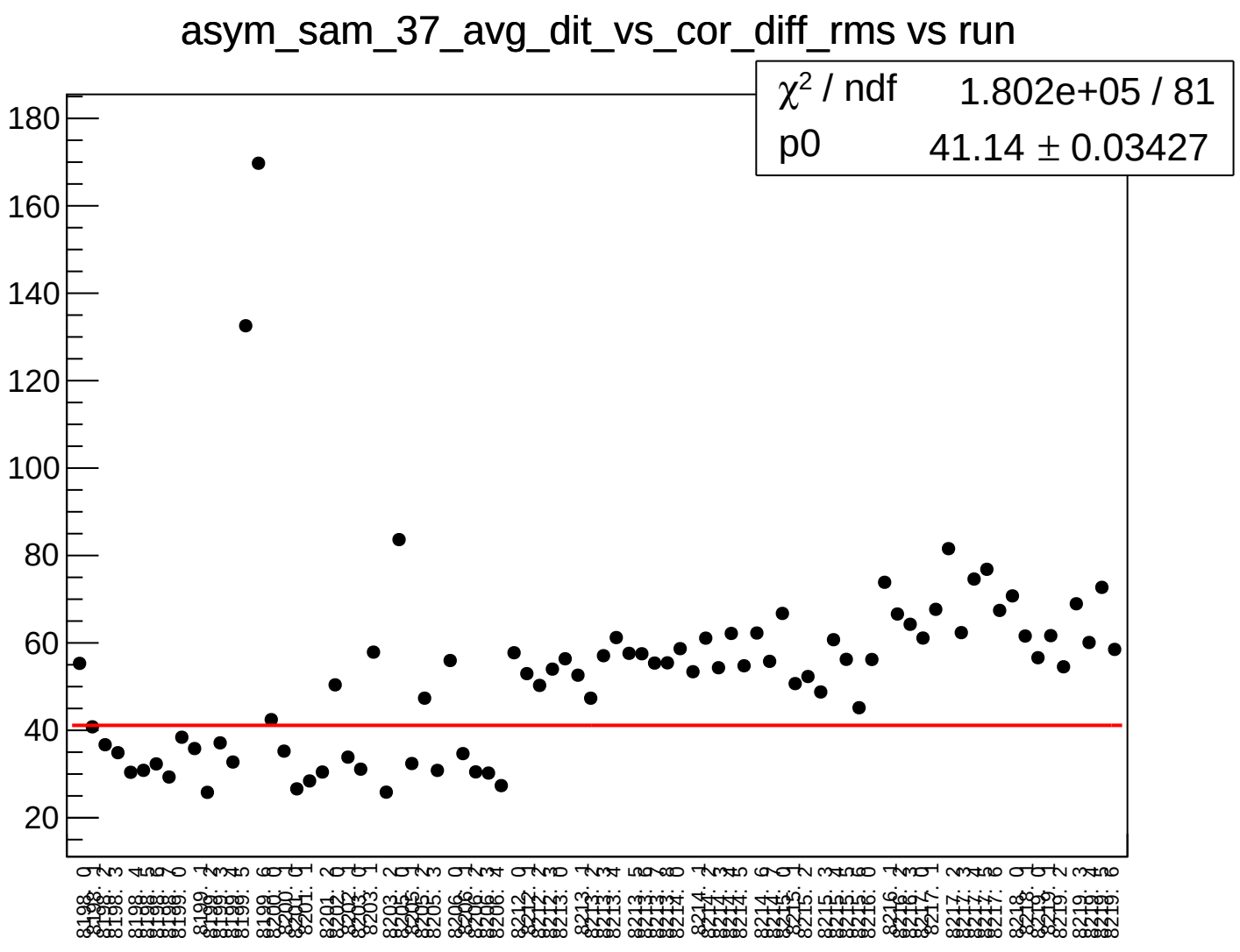

asym_sam_37_avg_rms vs run
χ² / ndf 3383 / 81
p0 2032 ± 1.598
2300
2250
2200
2150
2100
2050
2000
1950
1900
1850

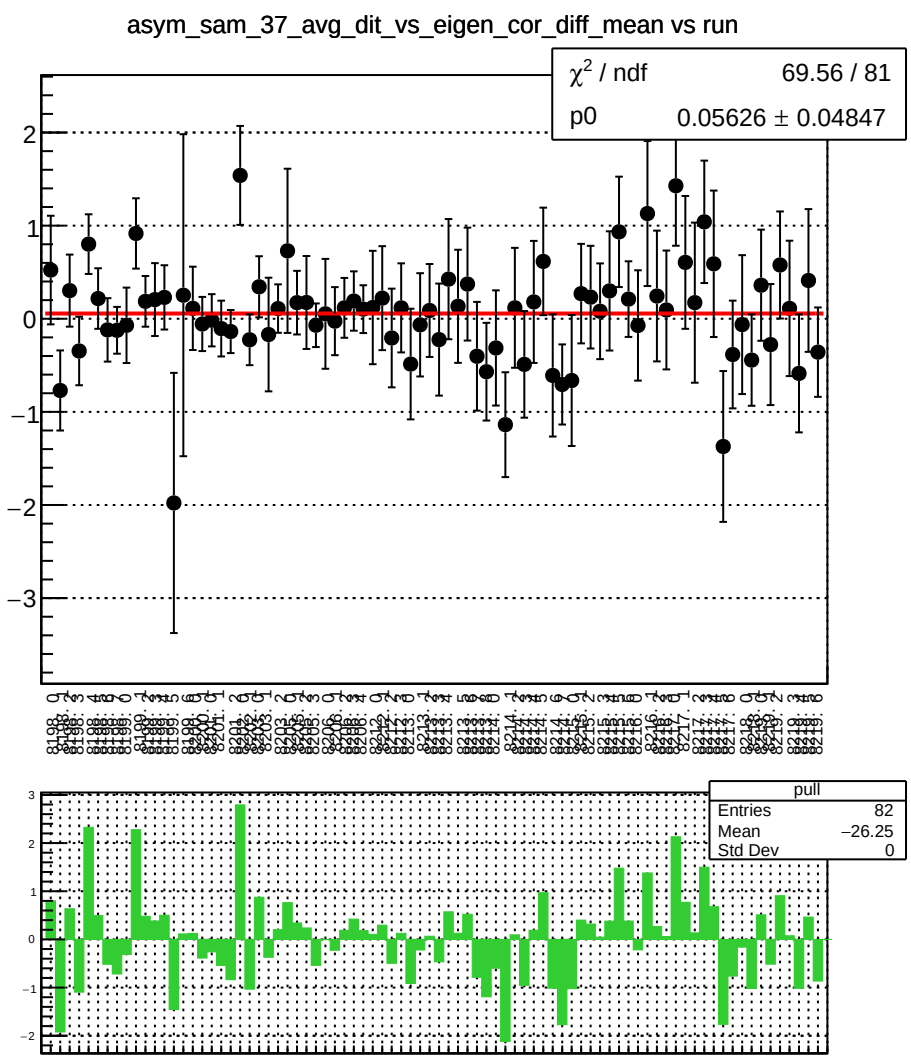

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.64 / 81
p0 −5.819e−13 ± 2.178e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 82
Mean 76.98
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.09727
Std Dev 0.9097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

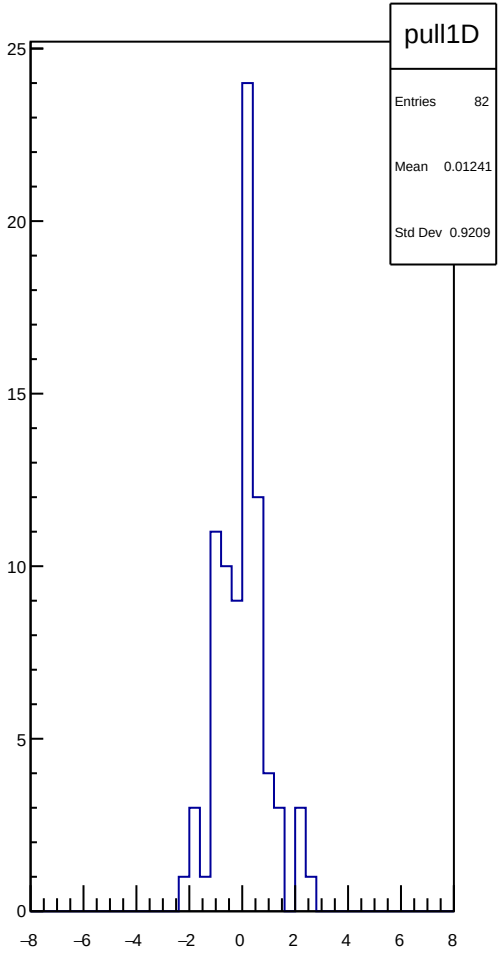

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.667e+05 / 81
p0 1.338e−10 ± 1.54e−13
0.25
0.2
0.15
0.1
0.05
0

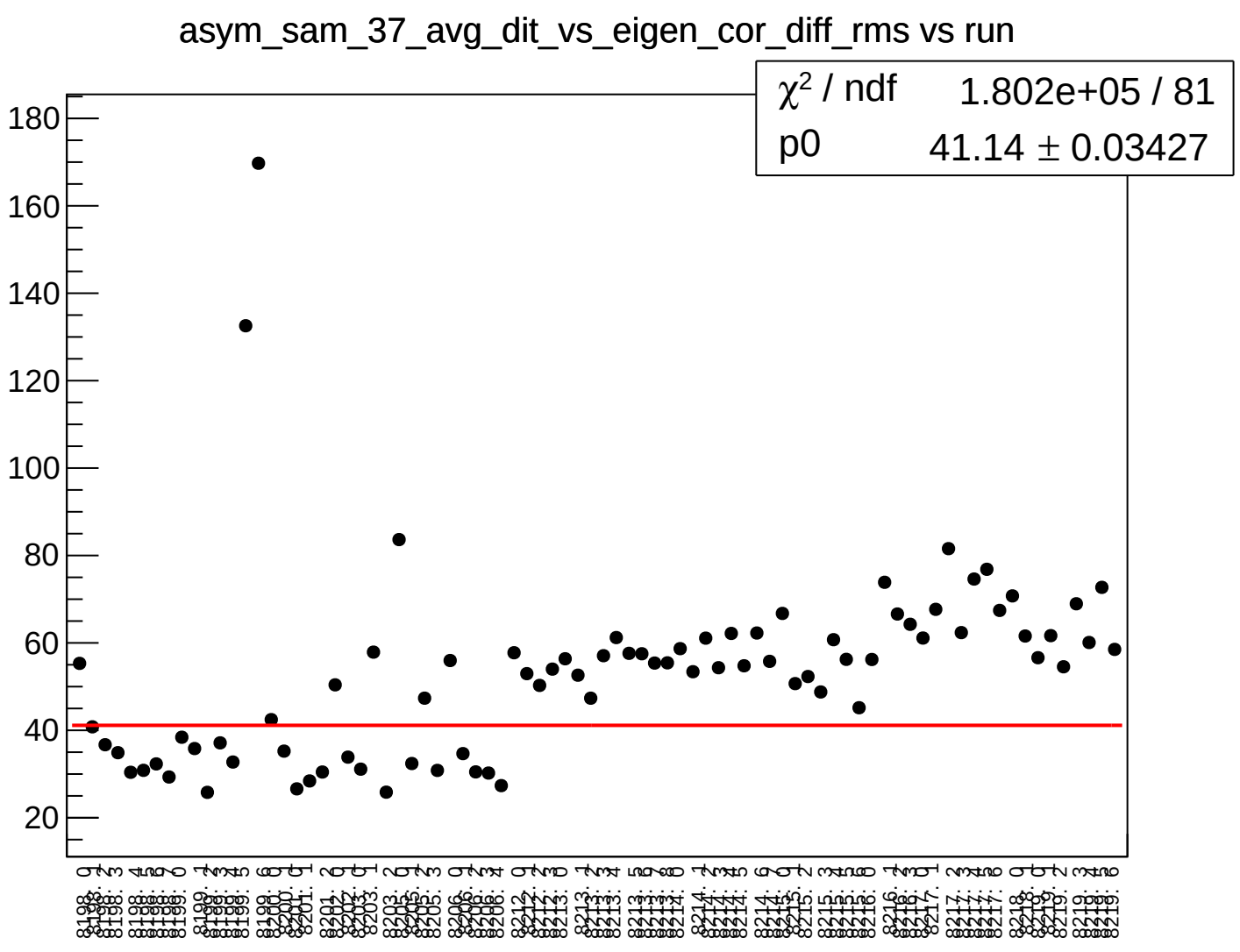

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.56 / 81
p0 0.05626 ± 0.04847
pull
Entries 82
Mean −26.25
Std Dev 0

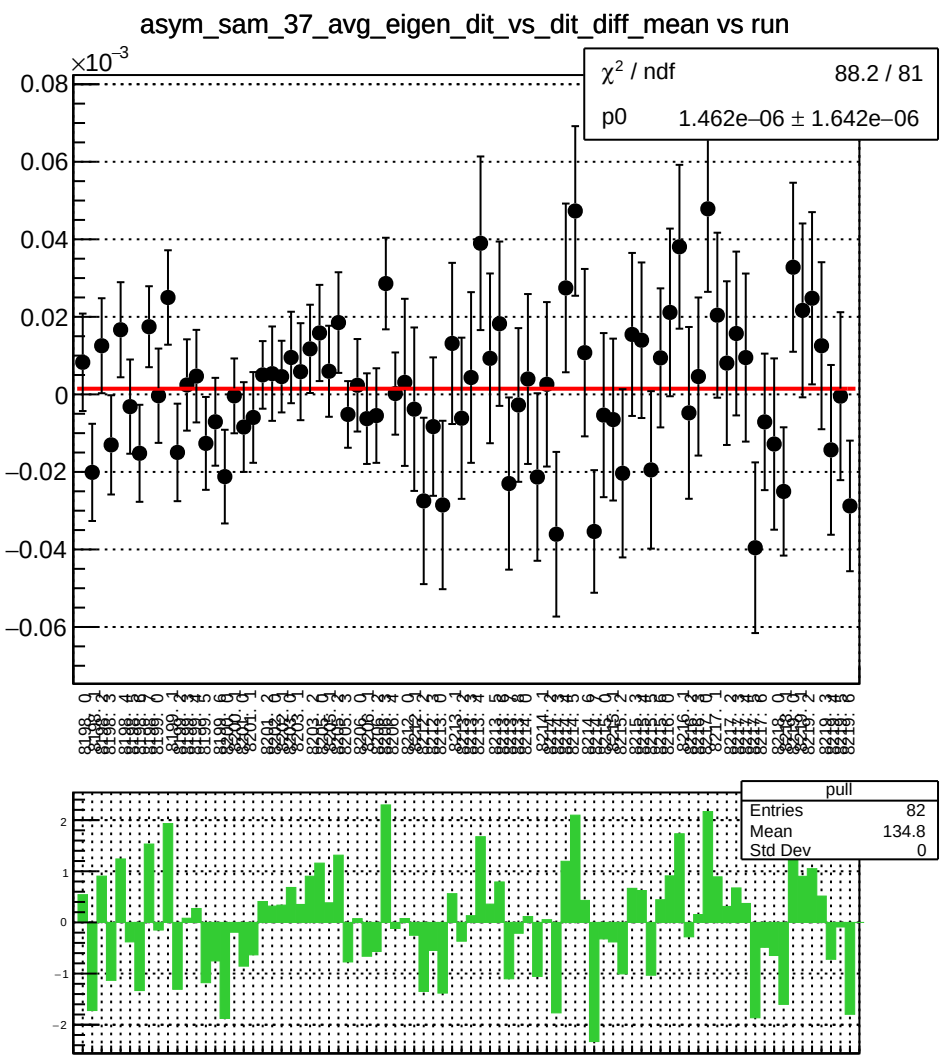

pull1D
Entries 82
Mean 0.01241
Std Dev 0.9209

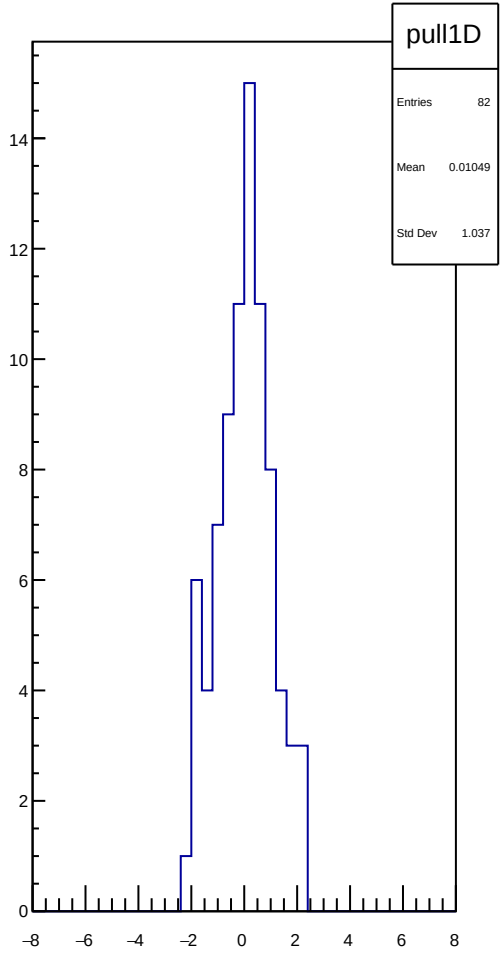

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.802e+05 / 81
p0 41.14 ± 0.03427
180
160
140
120
100
80
60
40
20

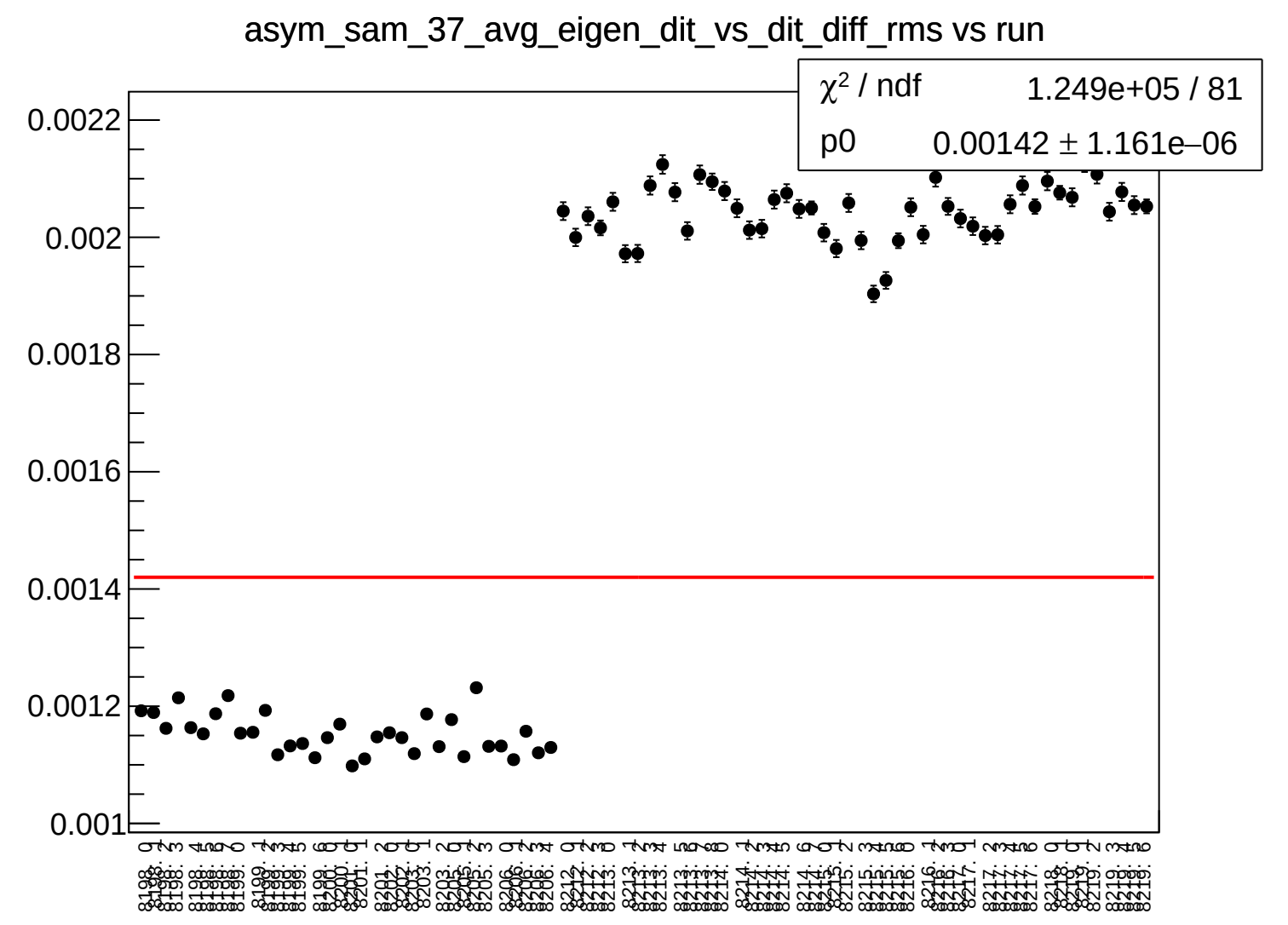

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.56 / 81
p0 0.05626 ± 0.04847
pull
Entries 82
Mean −26.25
Std Dev 0

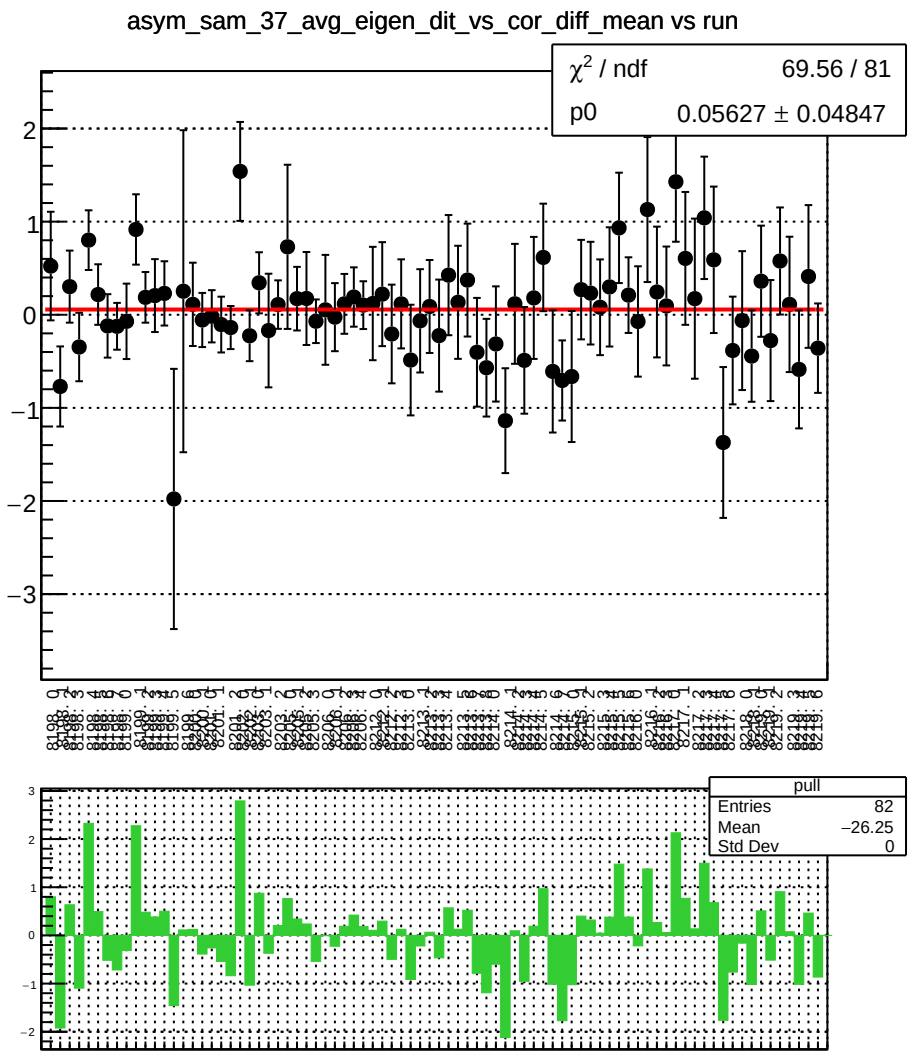

pull1D
Entries 82
Mean 0.01241
Std Dev 0.9209

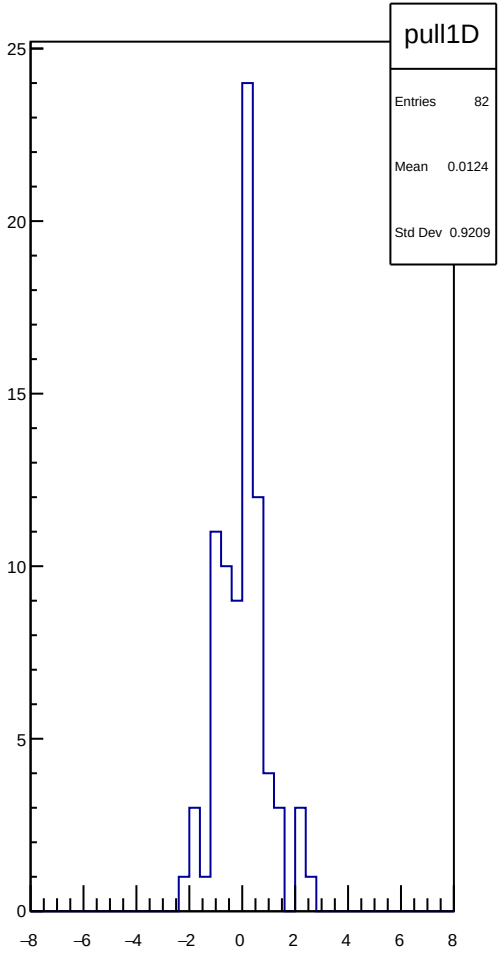

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.802e+05 / 81
p0 41.14 ± 0.03427
180
160
140
120
100
80
60
40
20

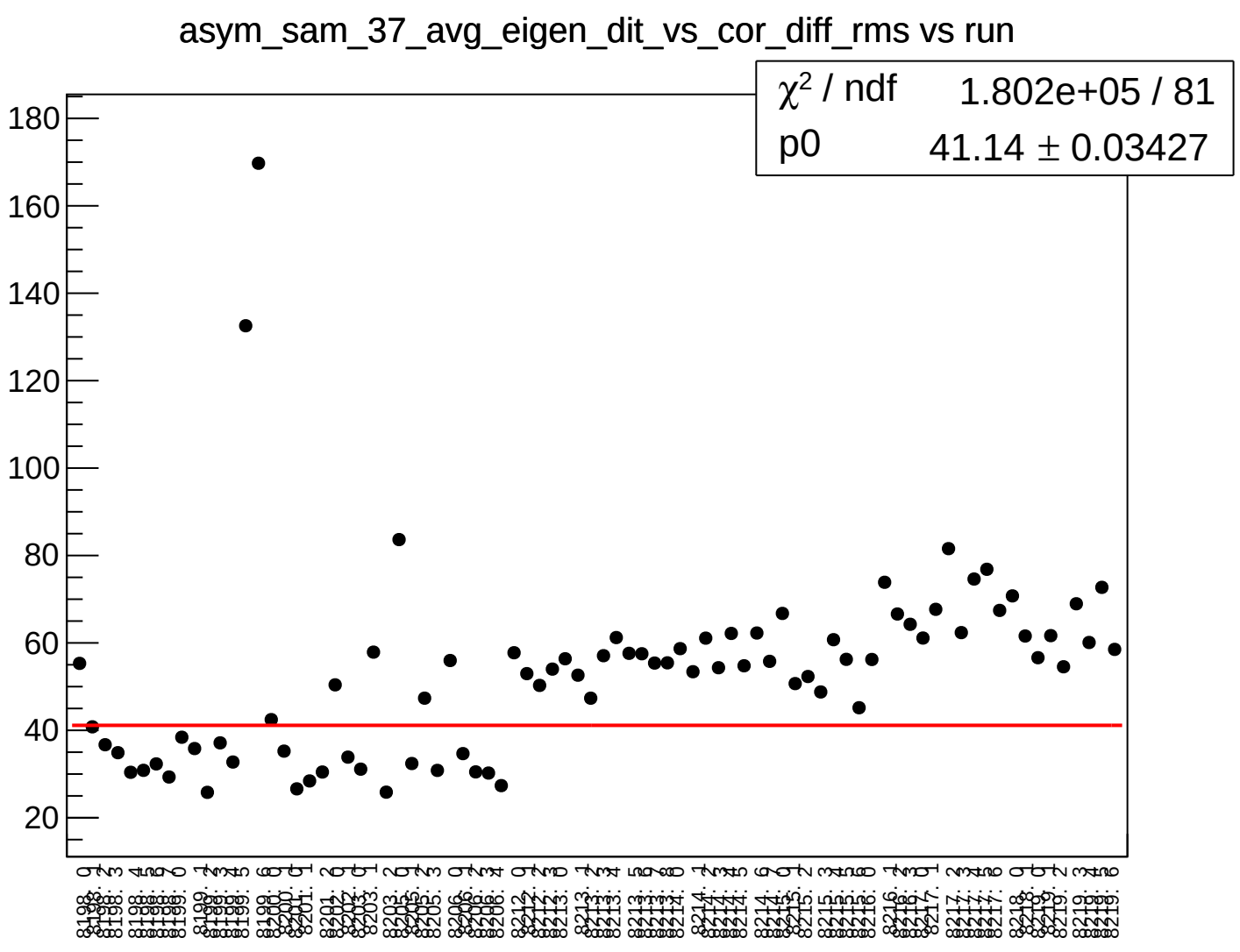

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.2 / 81
p0 1.462e−06 ± 1.642e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 82
Mean 134.8
Std Dev 0
2
1
0
−1
−2

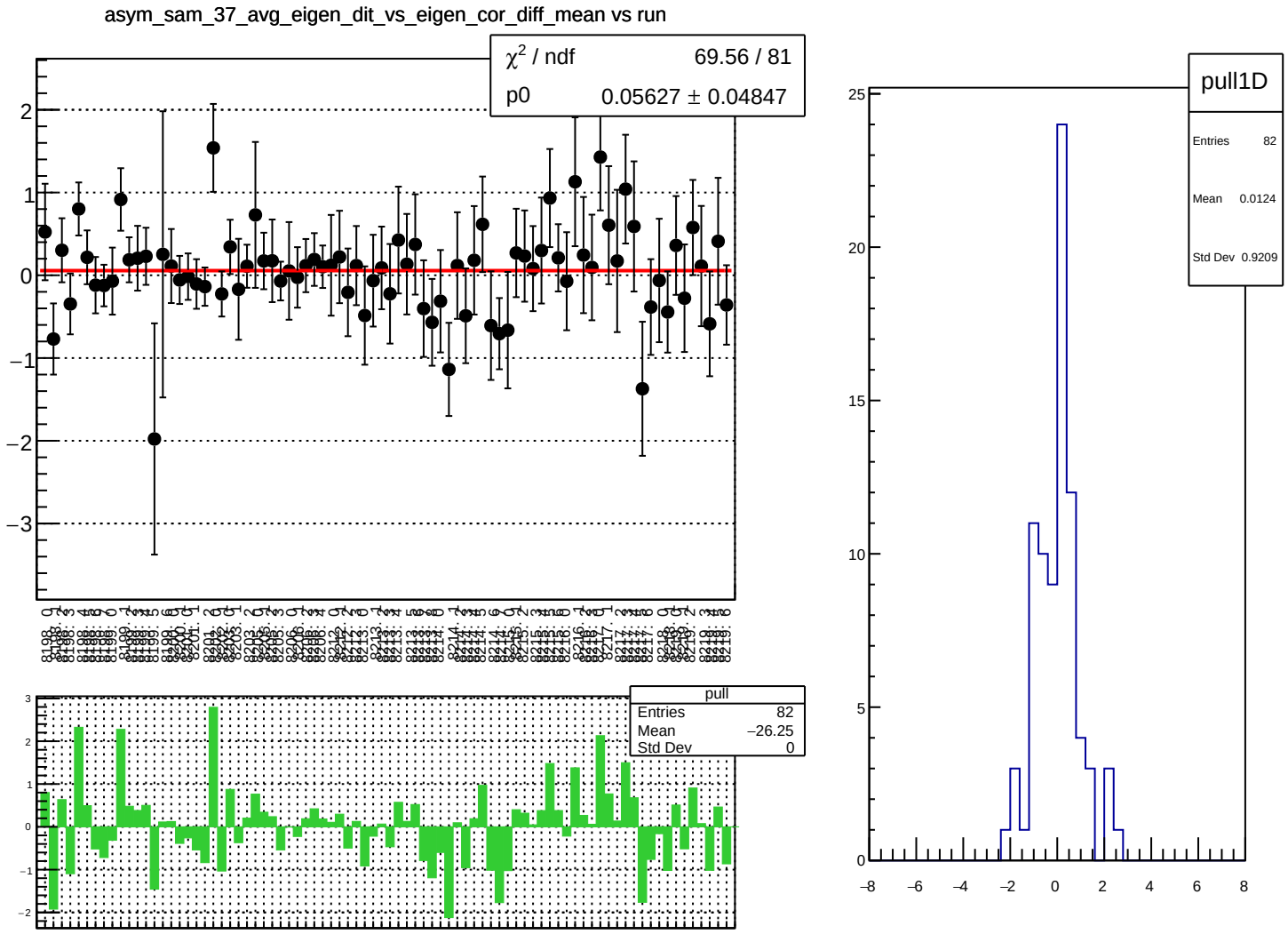

pull1D
Entries 82
Mean 0.01049
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

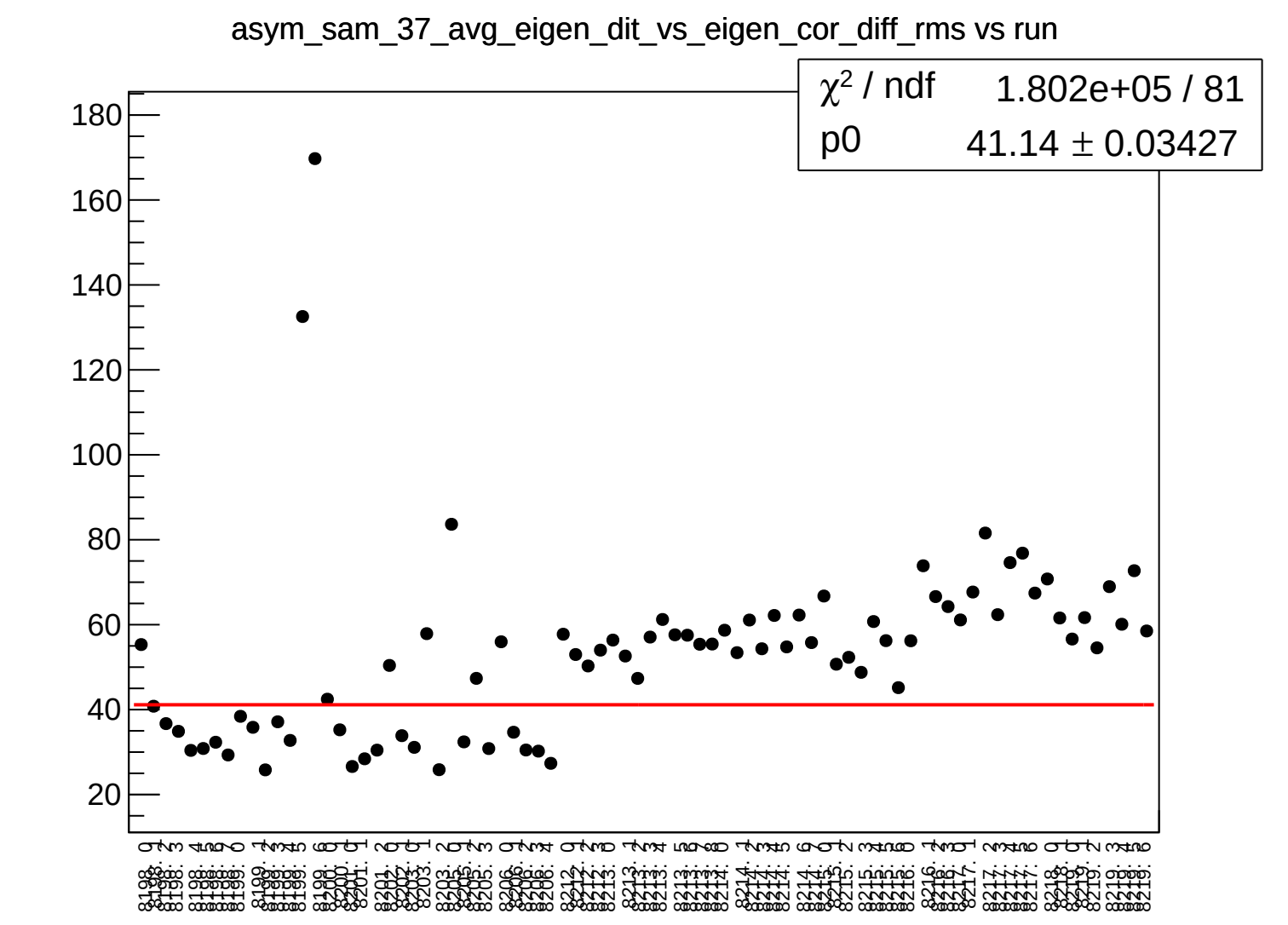

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.249e+05 / 81
p0 0.00142 ± 1.161e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

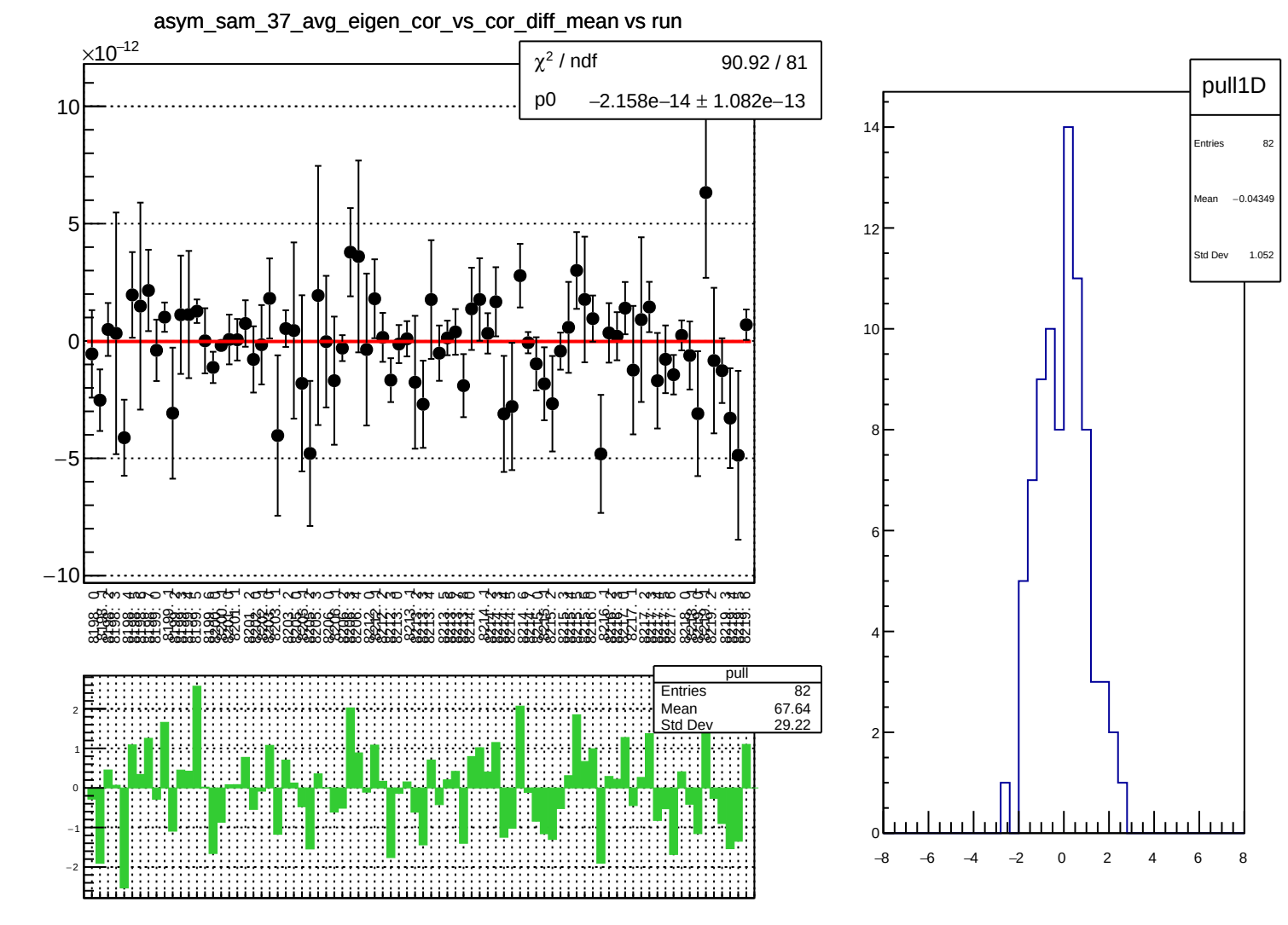

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.56 / 81
p0 0.05627 ± 0.04847
pull
Entries 82
Mean −26.25
Std Dev 0

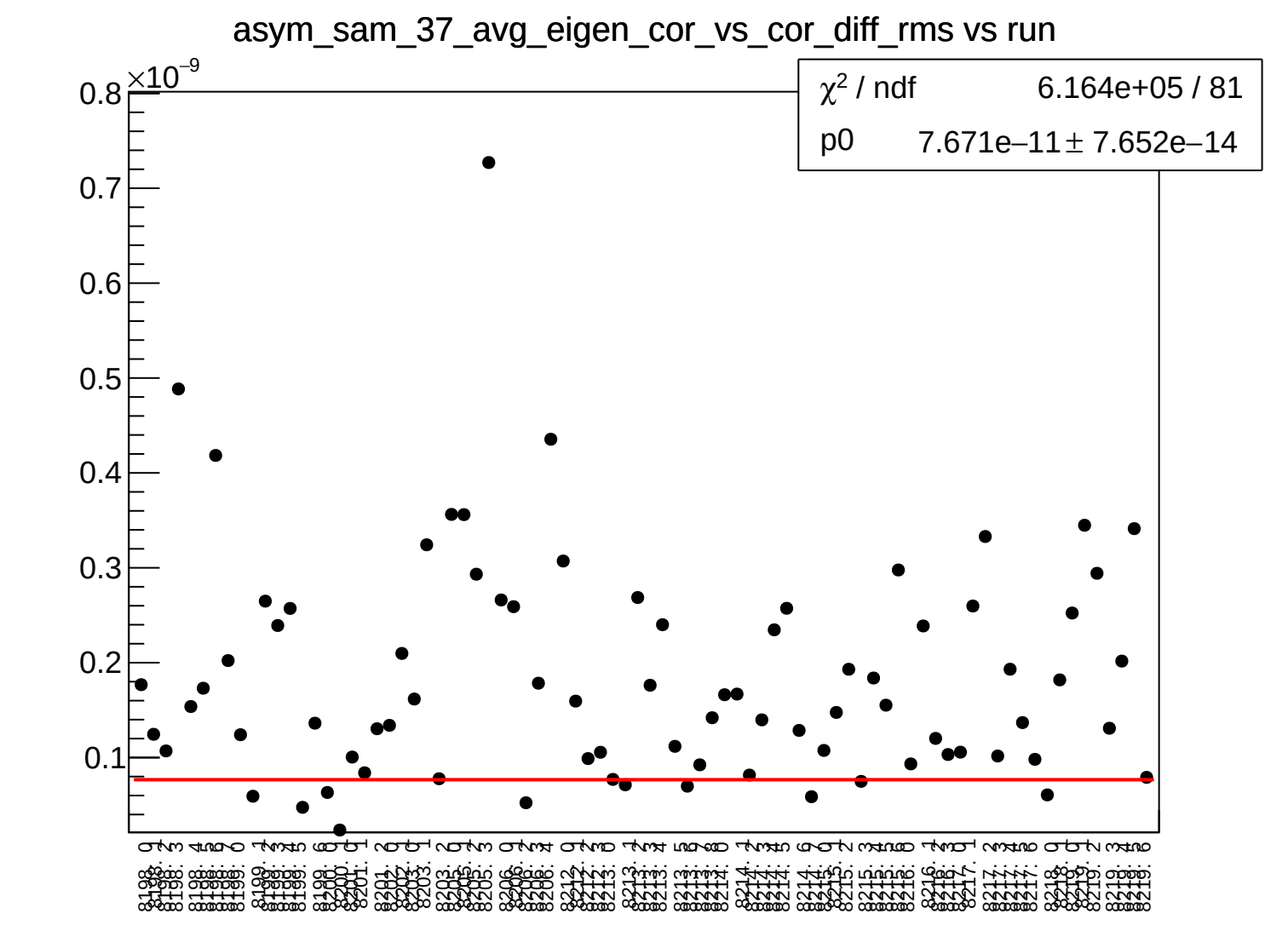

pull1D
Entries 82
Mean 0.0124
Std Dev 0.9209

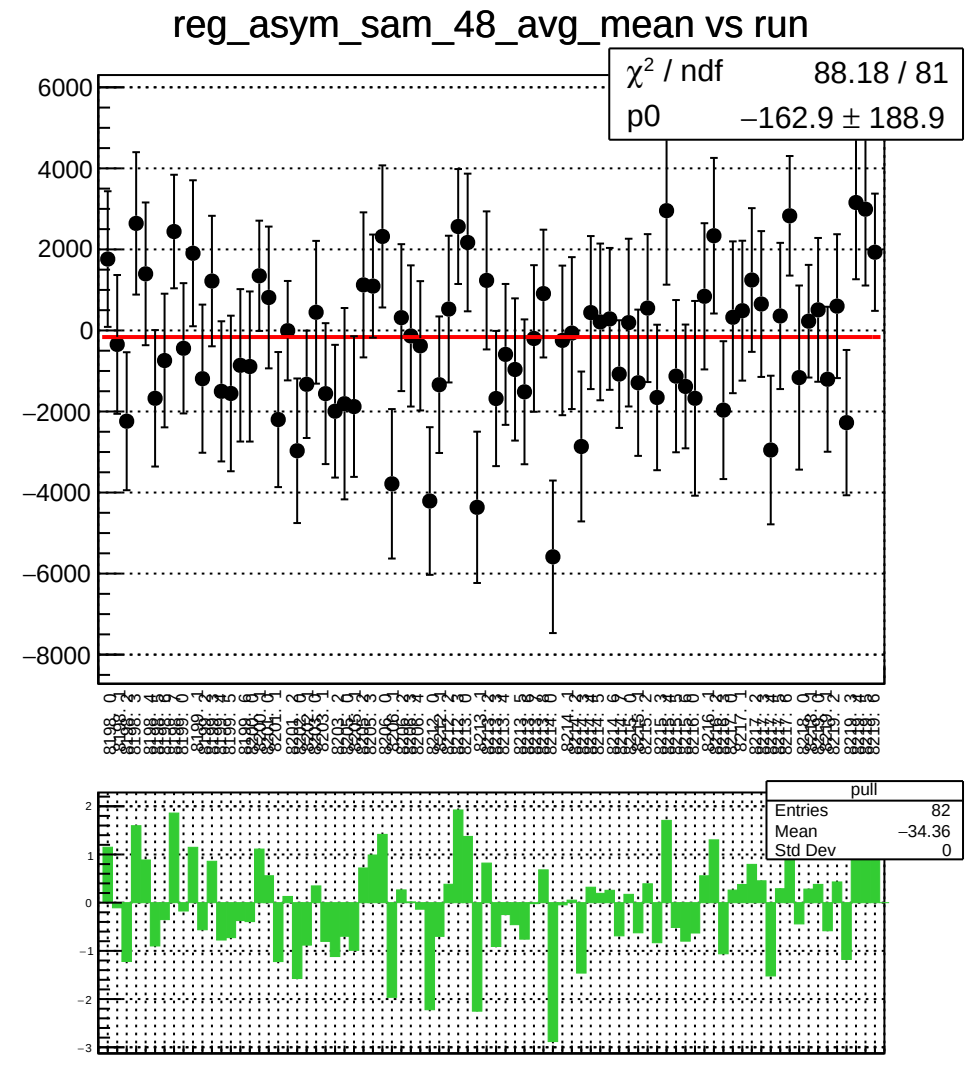

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.802e+05 / 81
p0 41.14 ± 0.03427
180
160
140
120
100
80
60
40
20

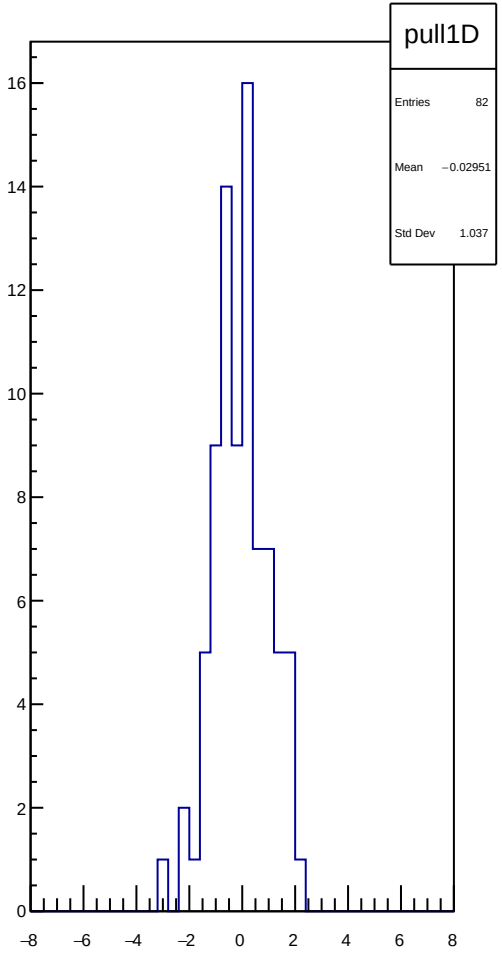

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.56 / 81
p0 0.05627 ± 0.04847
pull
Entries 82
Mean −26.25
Std Dev 0
pull1D
Entries 82
Mean 0.0124
Std Dev 0.9209

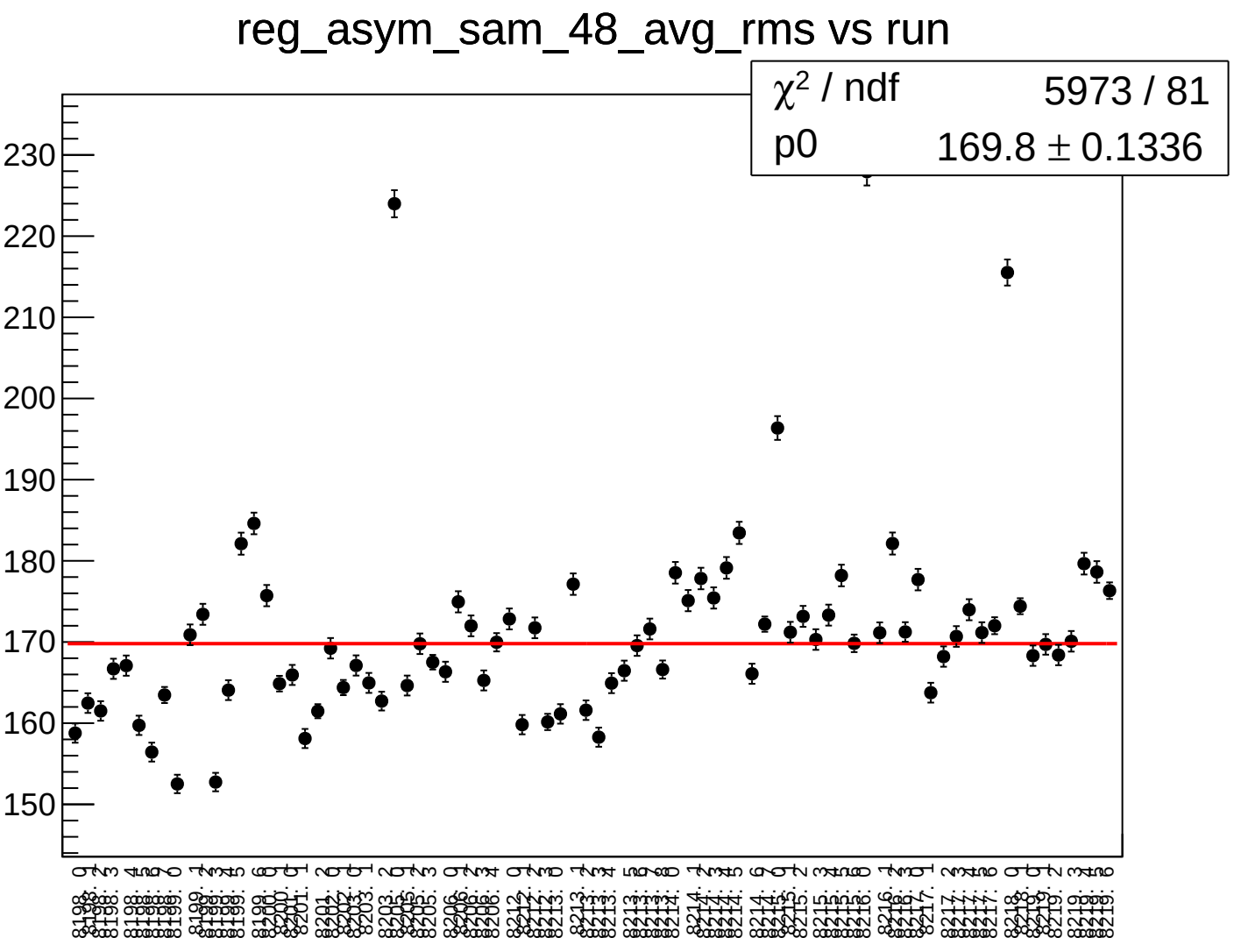

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.802e+05 / 81
p0 41.14 ± 0.03427
180
160
140
120
100
80
60
40
20

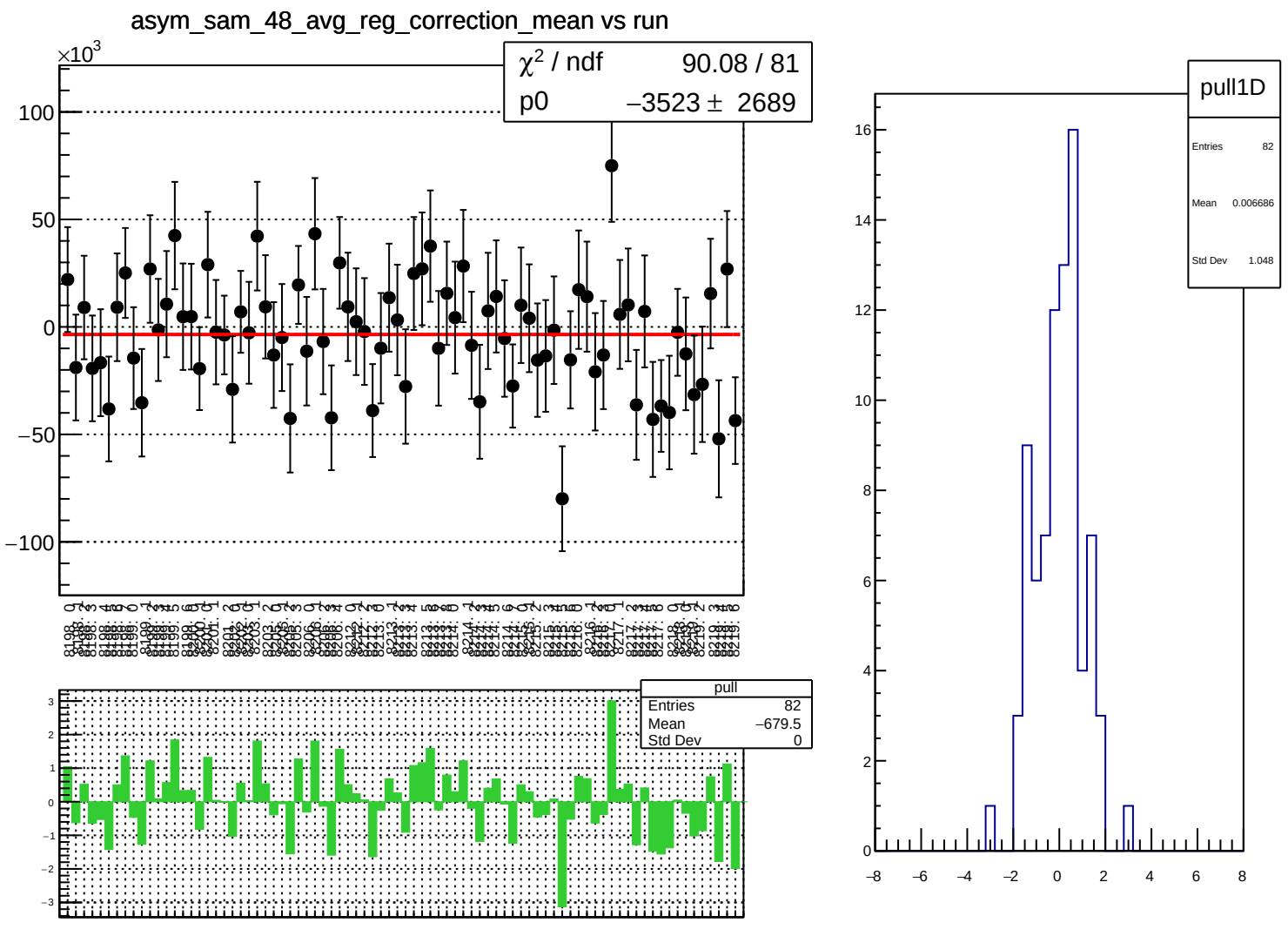

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.92 / 81
p0 −2.158e−14 ± 1.082e−13
pull
Entries 82
Mean 67.64
Std Dev 29.22
pull1D
Entries 82
Mean −0.04349
Std Dev 1.052

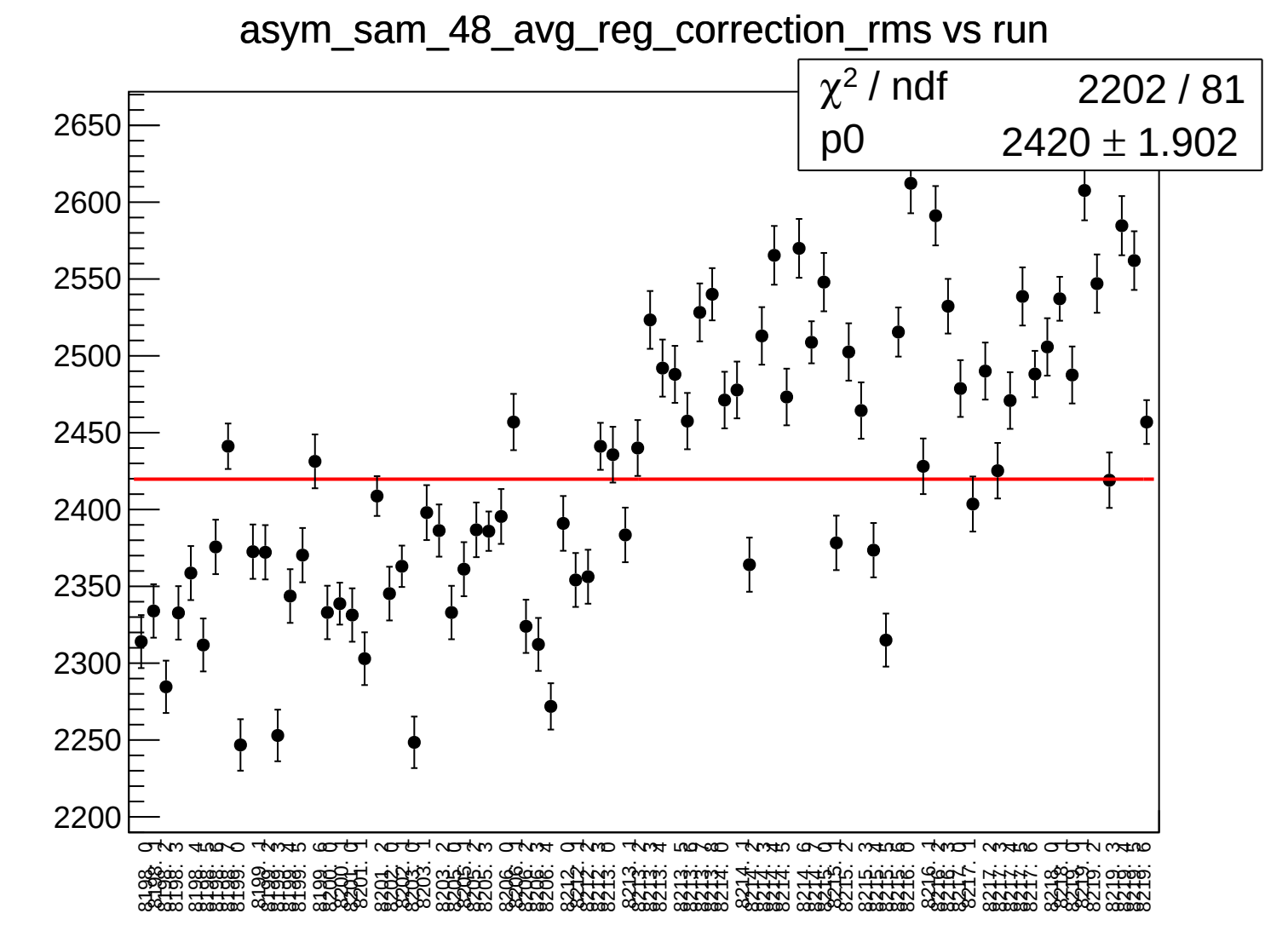

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 6.164e+05 / 81
p0 7.671e−11 ± 7.652e−14

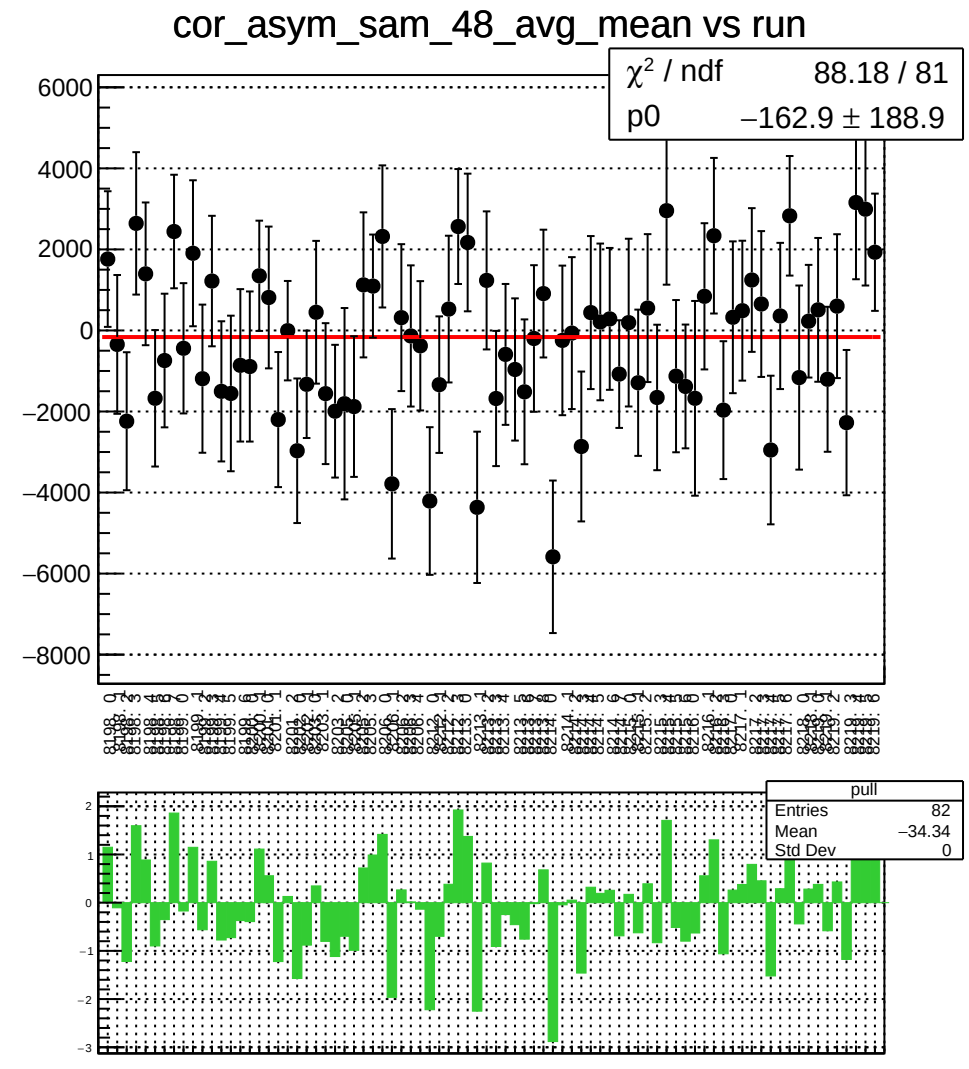

reg_asym_sam_48_avg_mean vs run
χ² / ndf 88.18 / 81
p0 −162.9 ± 188.9
pull
Entries 82
Mean −34.36
Std Dev 0

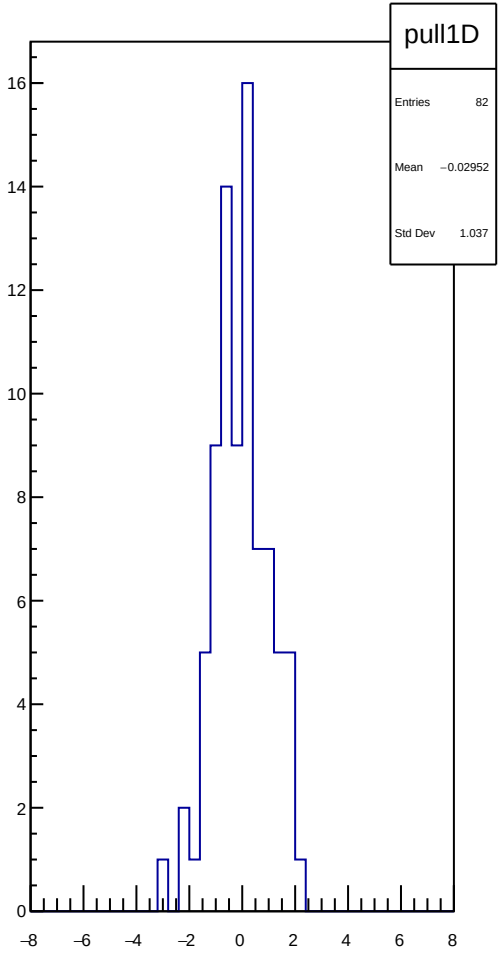

pull1D
Entries 82
Mean −0.02951
Std Dev 1.037

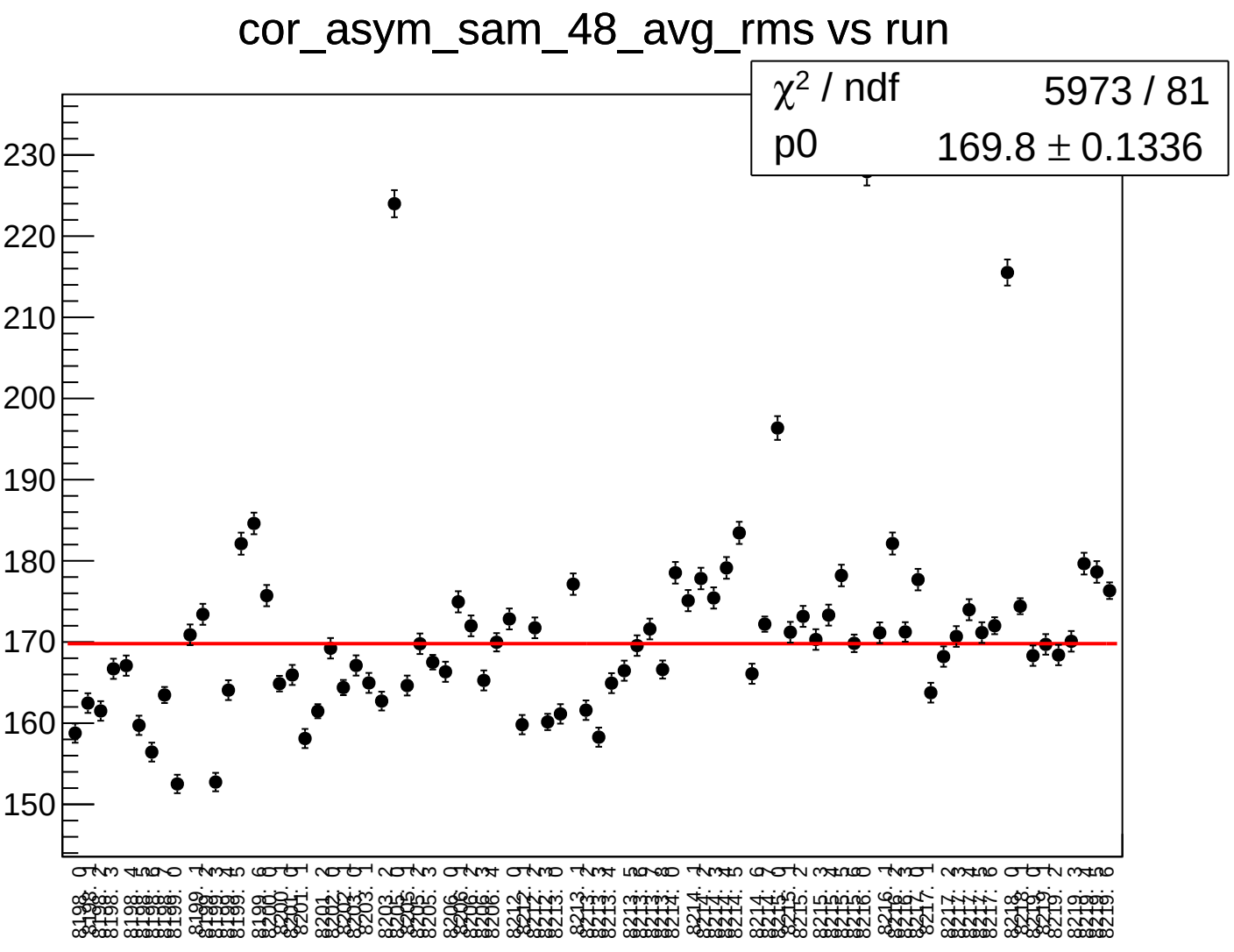

reg_asym_sam_48_avg_rms vs run
$\chi^2$ / ndf 5973 / 81
p0 169.8 ± 0.1336
230
220
210
200
190
180
170
160
150

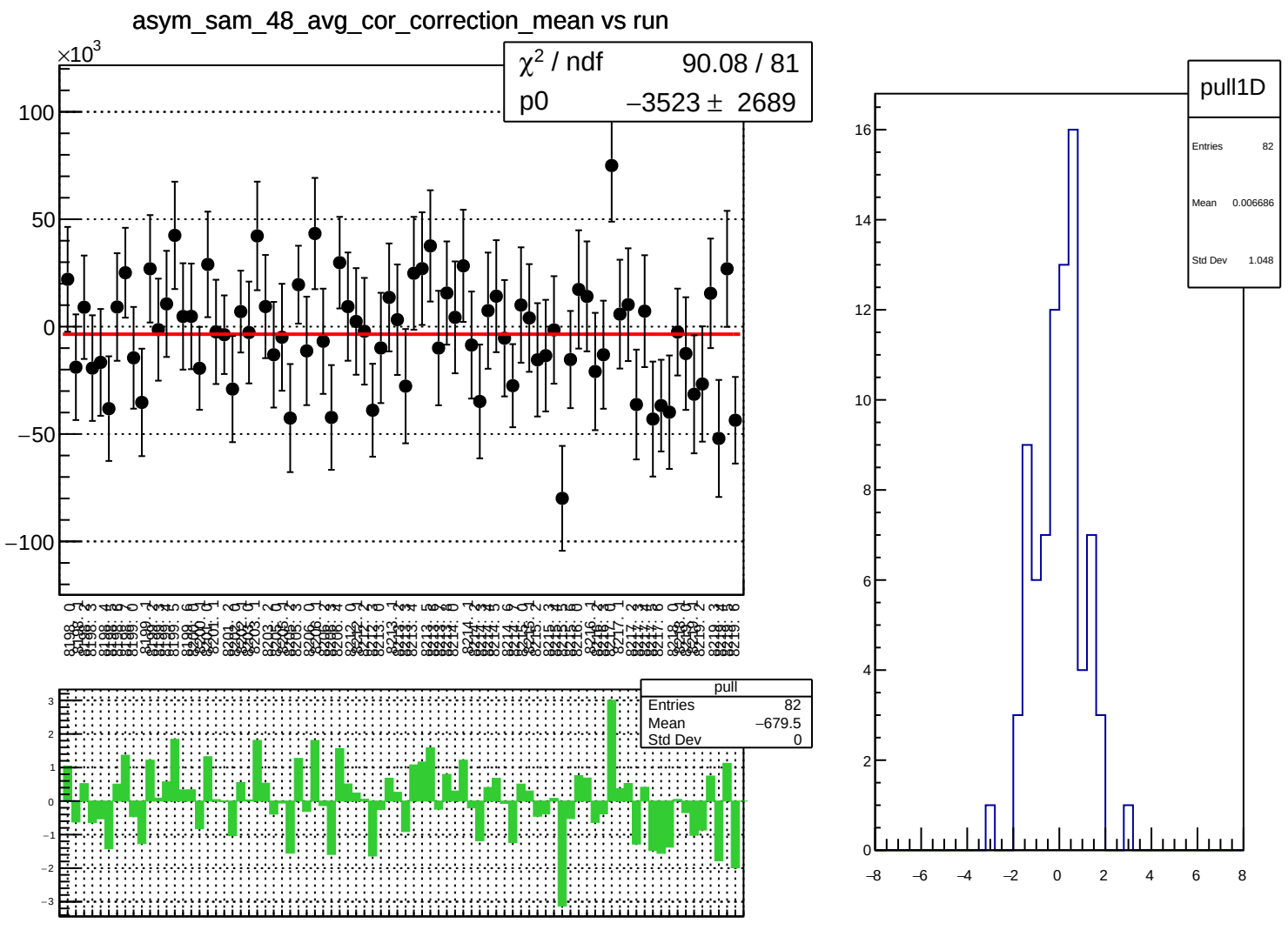

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.08 / 81
p0 −3523 ± 2689
100
50
0
−50
−100
pull
Entries 82
Mean −679.5
Std Dev 0
pull1D
Entries 82
Mean 0.006686
Std Dev 1.048

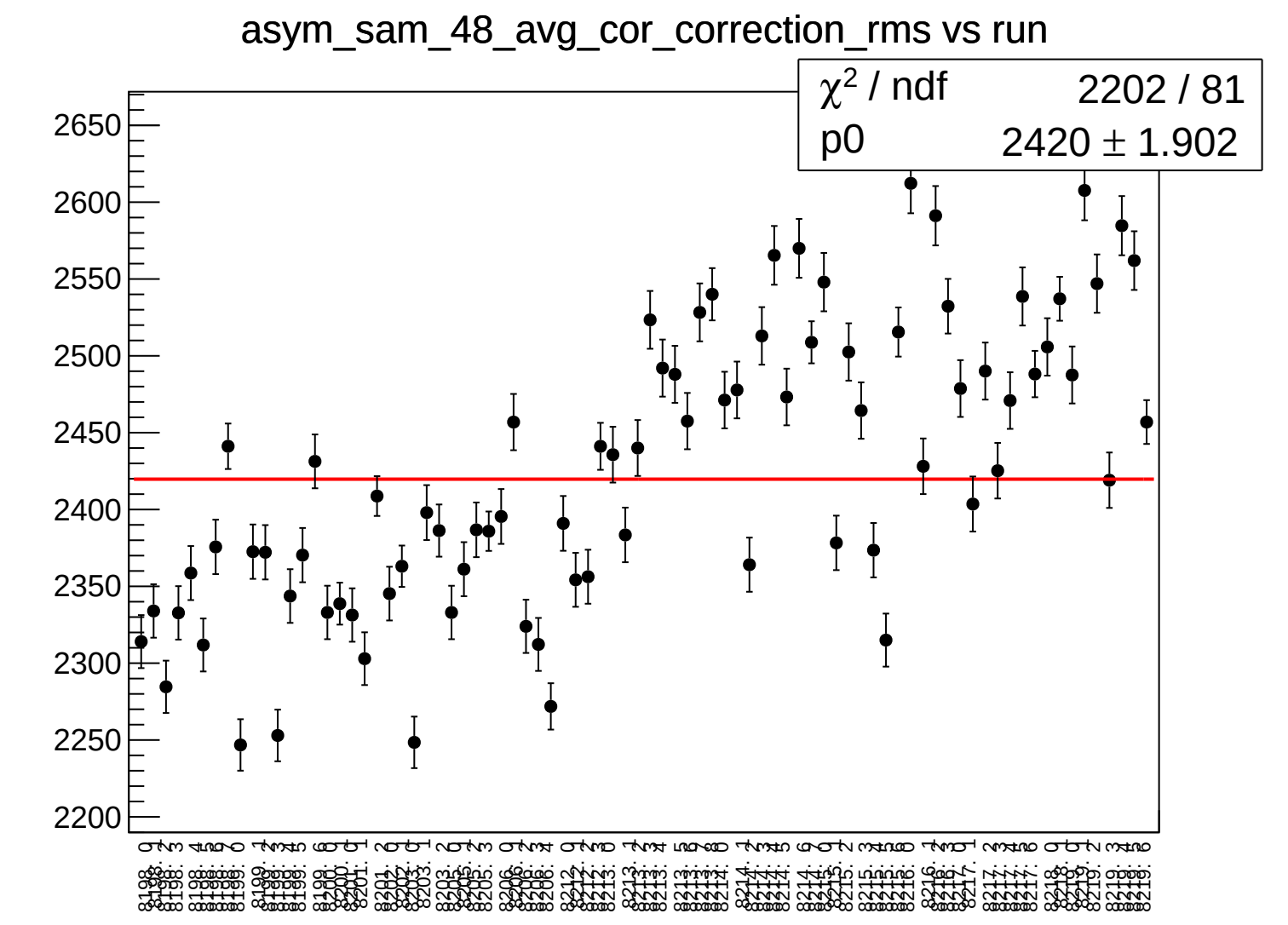

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 2202 / 81
p0 2420 ± 1.902
2650
2600
2550
2500
2450
2400
2350
2300
2250
2200

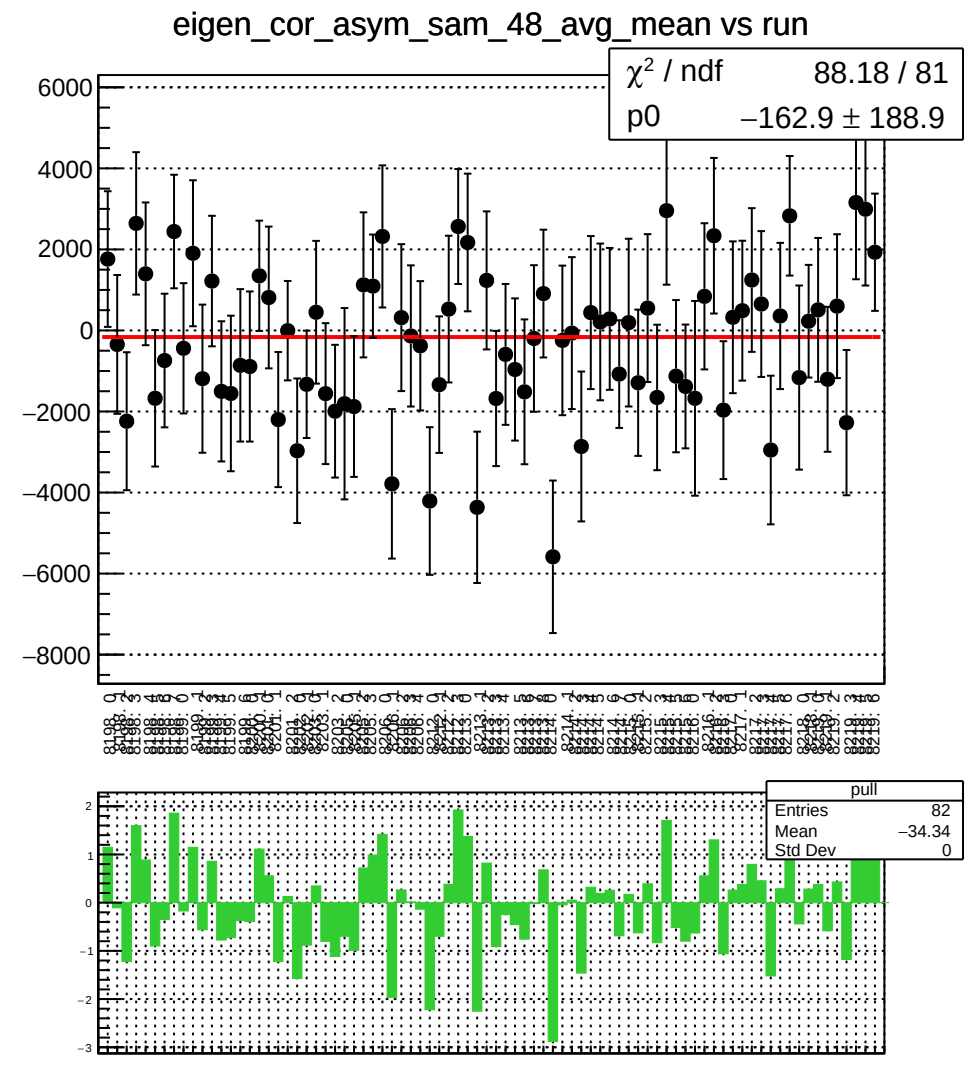

cor_asym_sam_48_avg_mean vs run
χ² / ndf 88.18 / 81
p0 −162.9 ± 188.9
pull
Entries 82
Mean −34.34
Std Dev 0

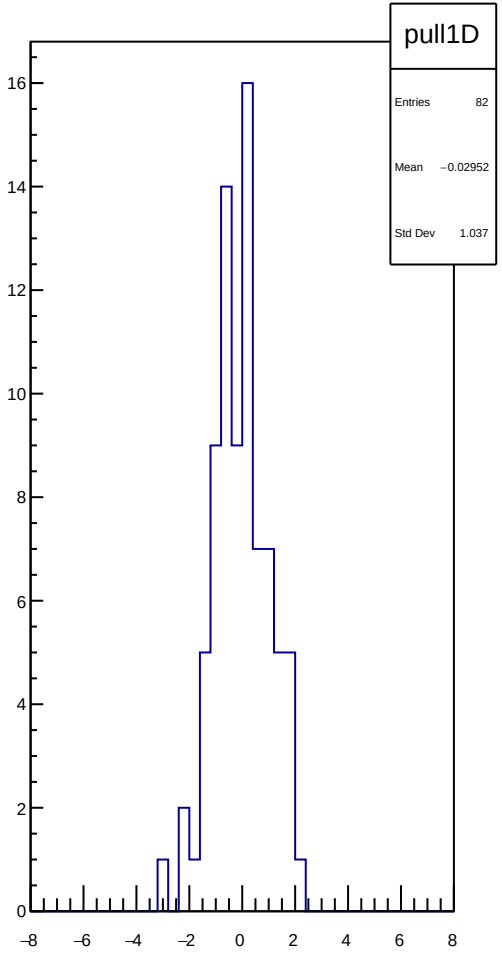

pull1D
Entries 82
Mean −0.02952
Std Dev 1.037

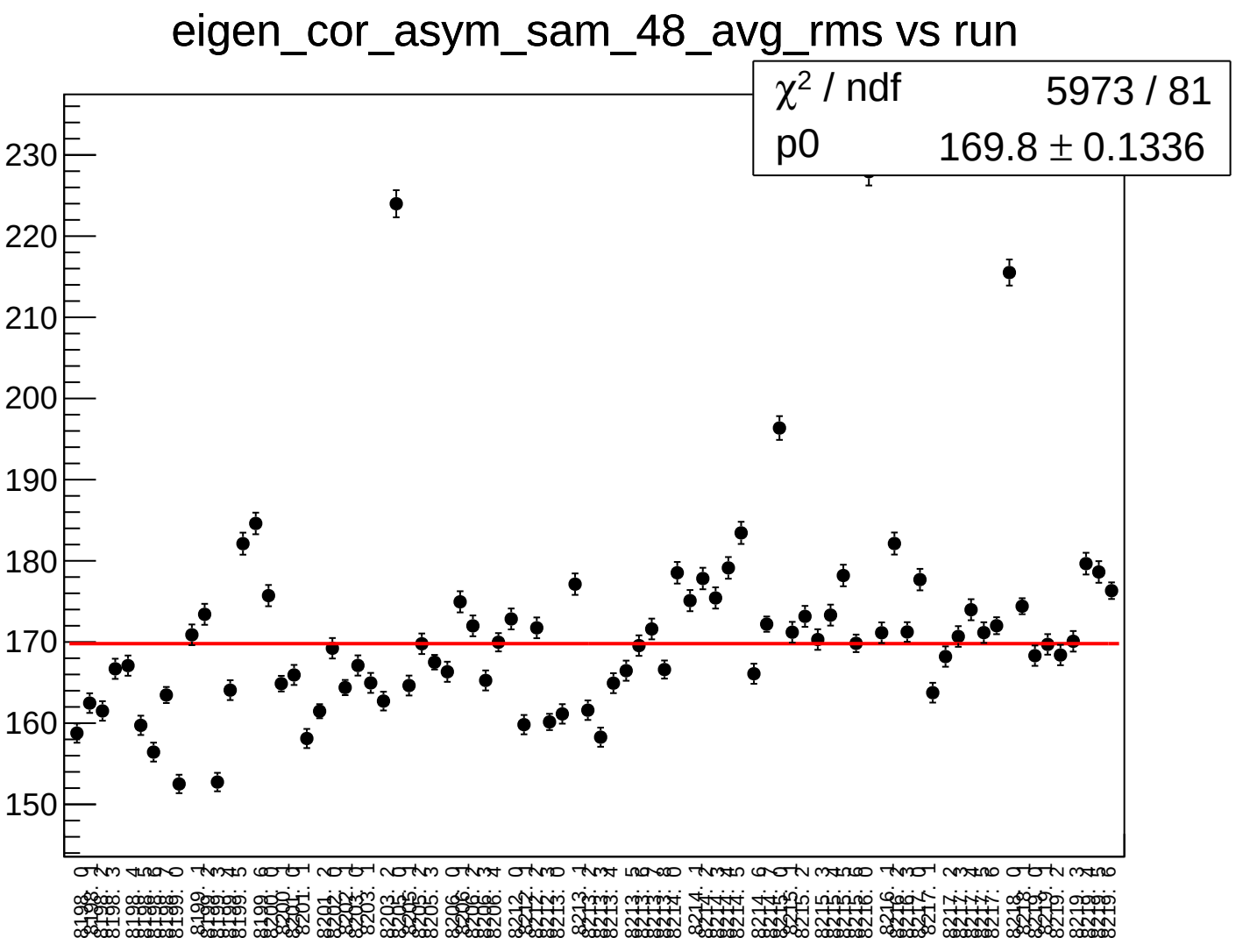

cor_asym_sam_48_avg_rms vs run
$\chi^2$ / ndf 5973 / 81
p0 169.8 ± 0.1336
230
220
210
200
190
180
170
160
150

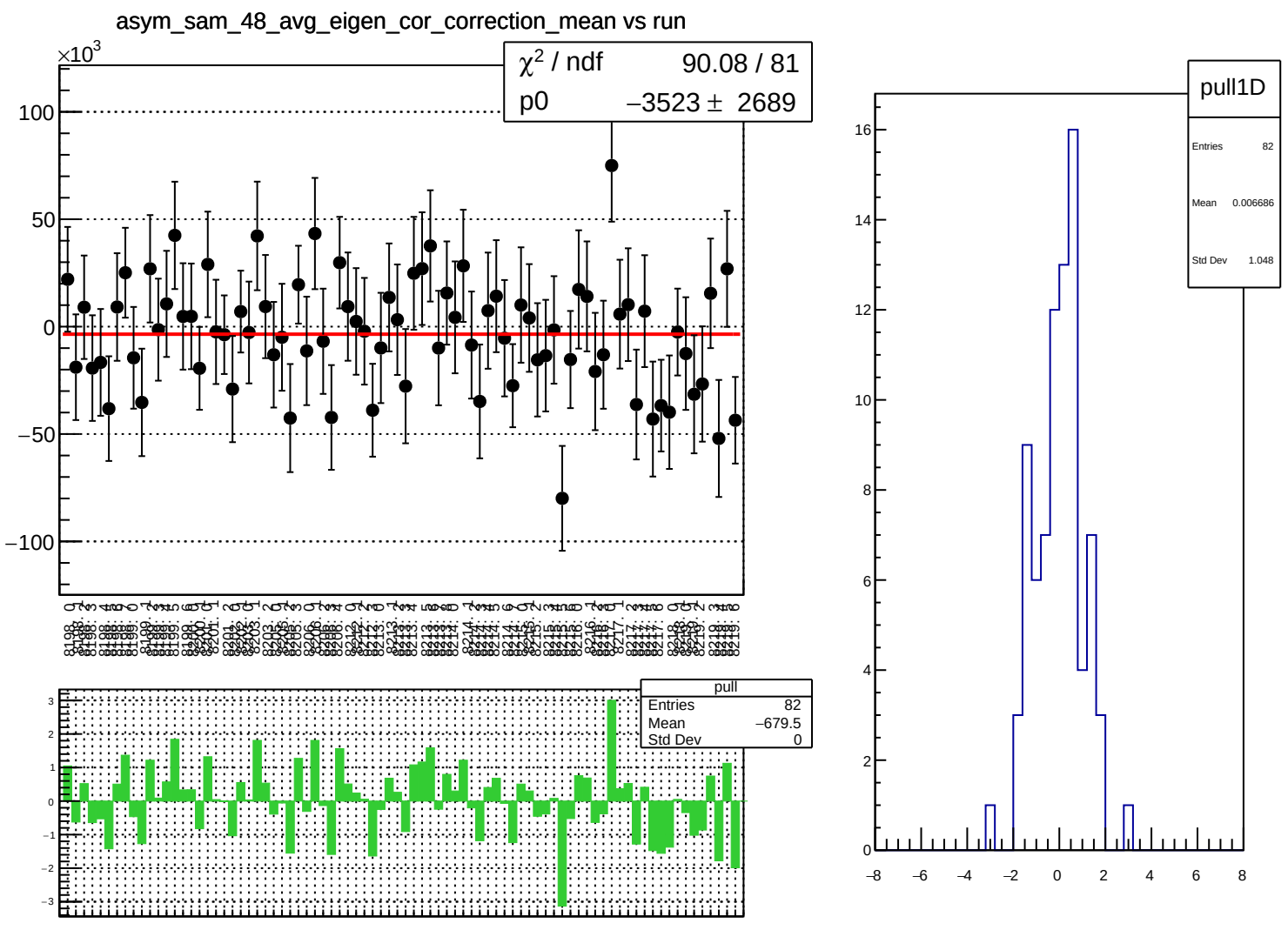

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 90.08 / 81
p0 −3523 ± 2689
100
50
0
−50
−100
pull
Entries 82
Mean −679.5
Std Dev 0
pull1D
Entries 82
Mean 0.006686
Std Dev 1.048

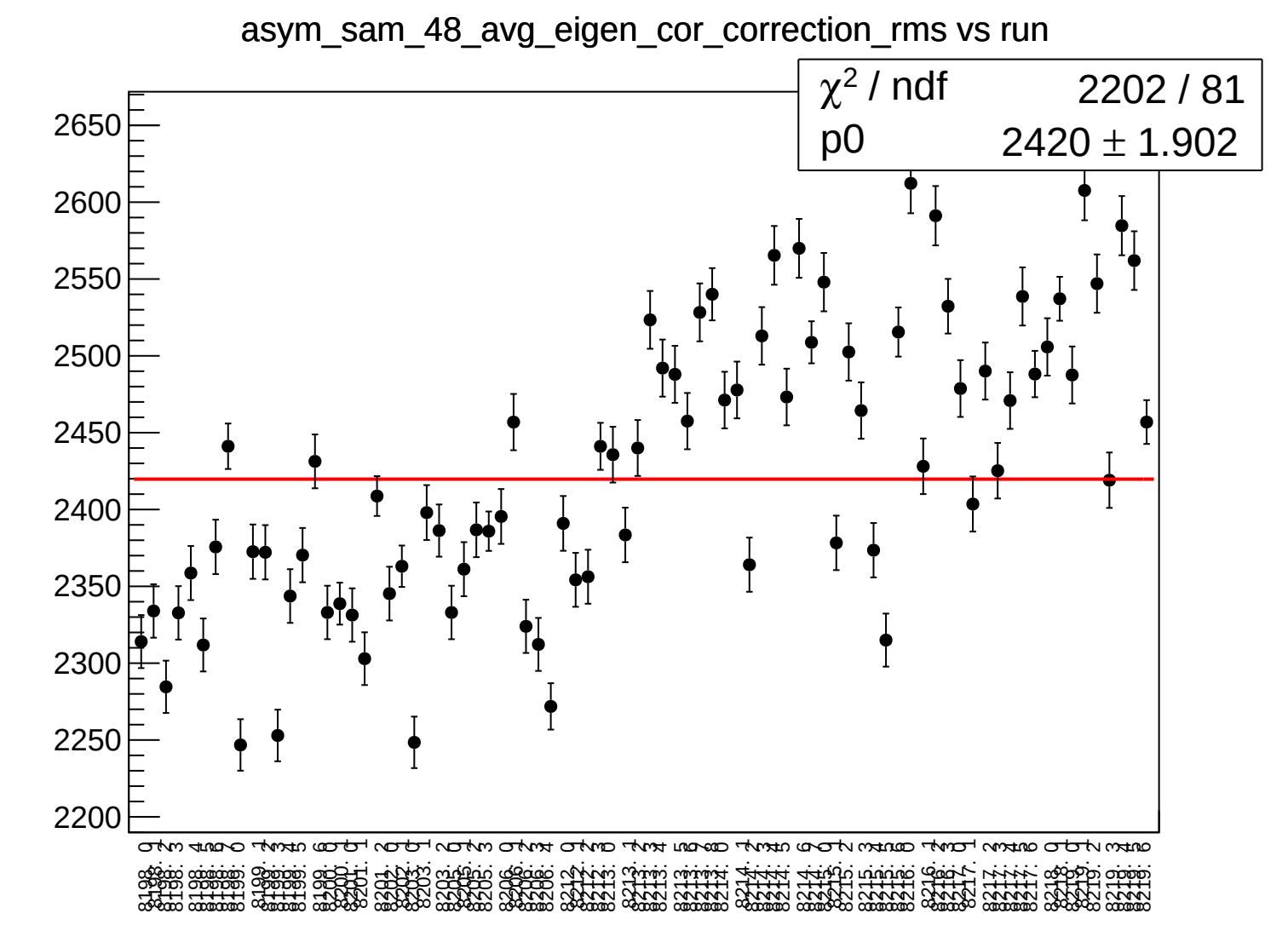

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 2202 / 81
p0 2420 ± 1.902
2650
2600
2550
2500
2450
2400
2350
2300
2250
2200

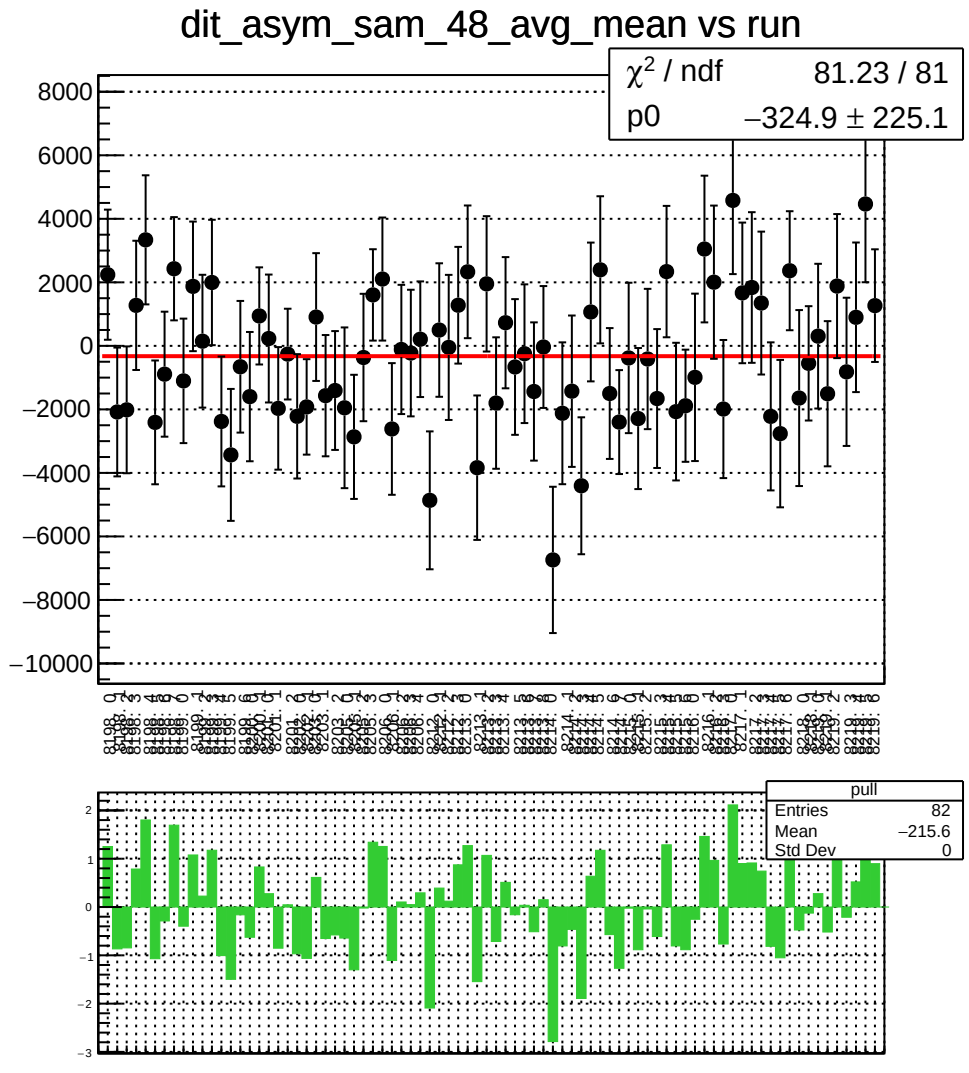

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 88.18 / 81
p0 −162.9 ± 188.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 82
Mean −34.34
Std Dev 0
2
1
0
−1
−2
−3

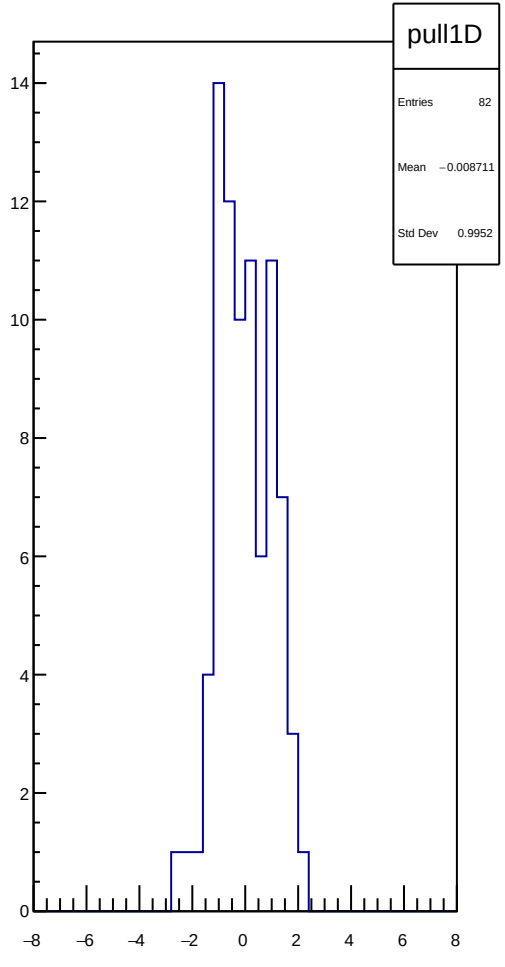

pull1D
Entries 82
Mean −0.02952
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

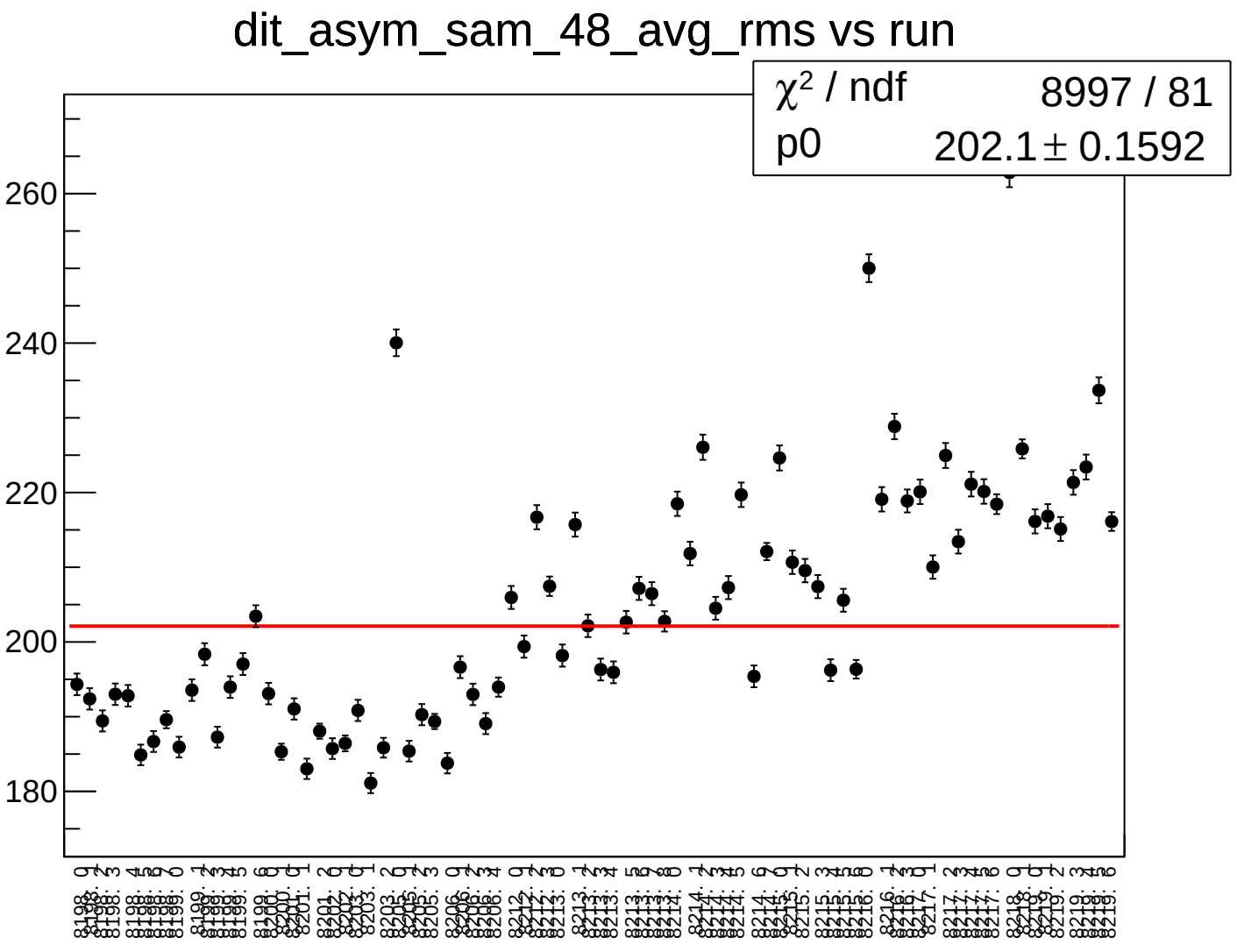

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 5973 / 81
p0 169.8 ± 0.1336
230
220
210
200
190
180
170
160
150

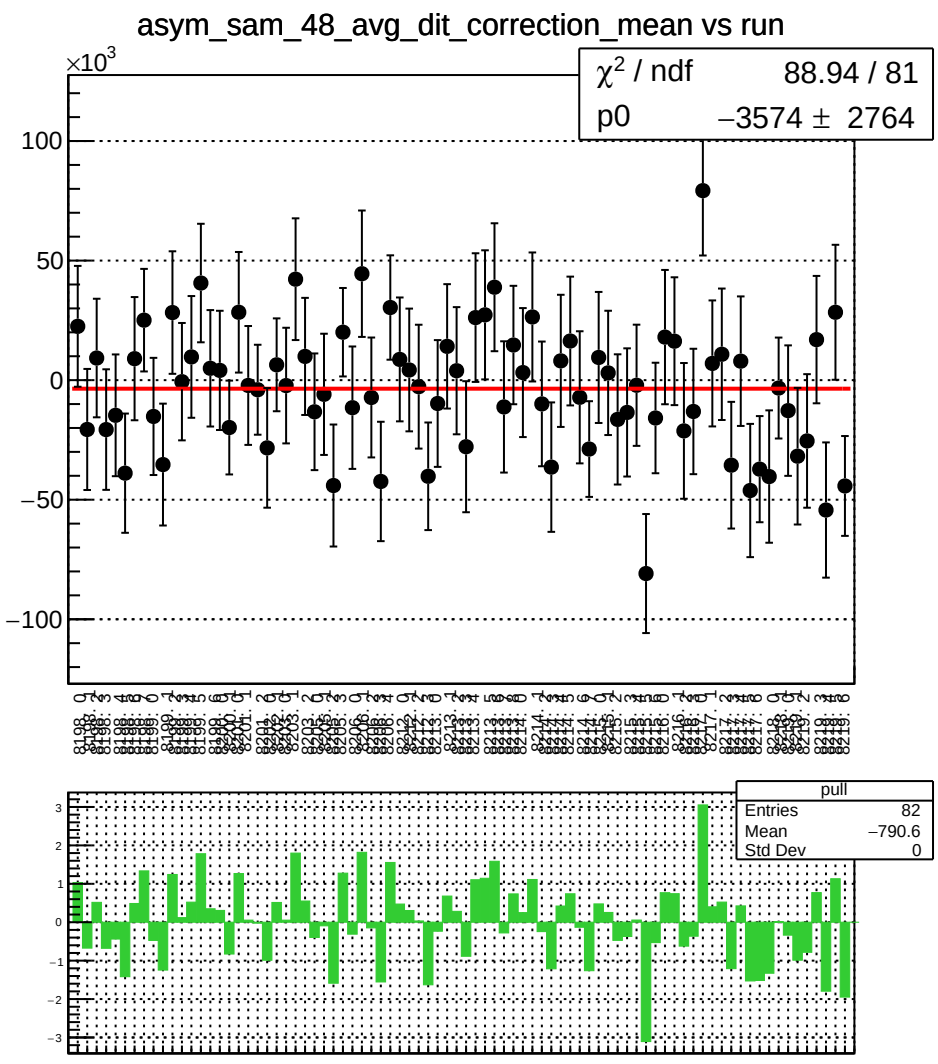

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.08 / 81
p0 −3523 ± 2689
100
50
0
−50
−100
pull
Entries 82
Mean −679.5
Std Dev 0
pull1D
Entries 82
Mean 0.006686
Std Dev 1.048

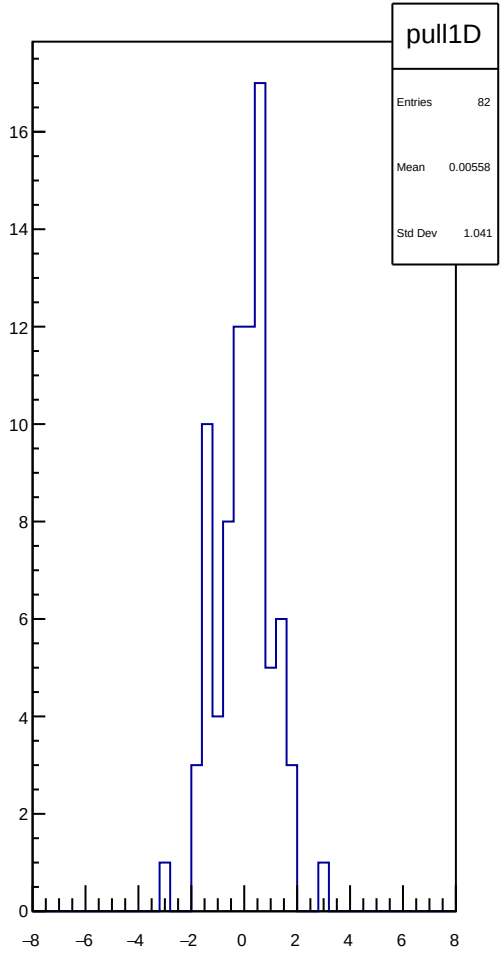

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 2202 / 81
p0 2420 ± 1.902
2650
2600
2550
2500
2450
2400
2350
2300
2250
2200

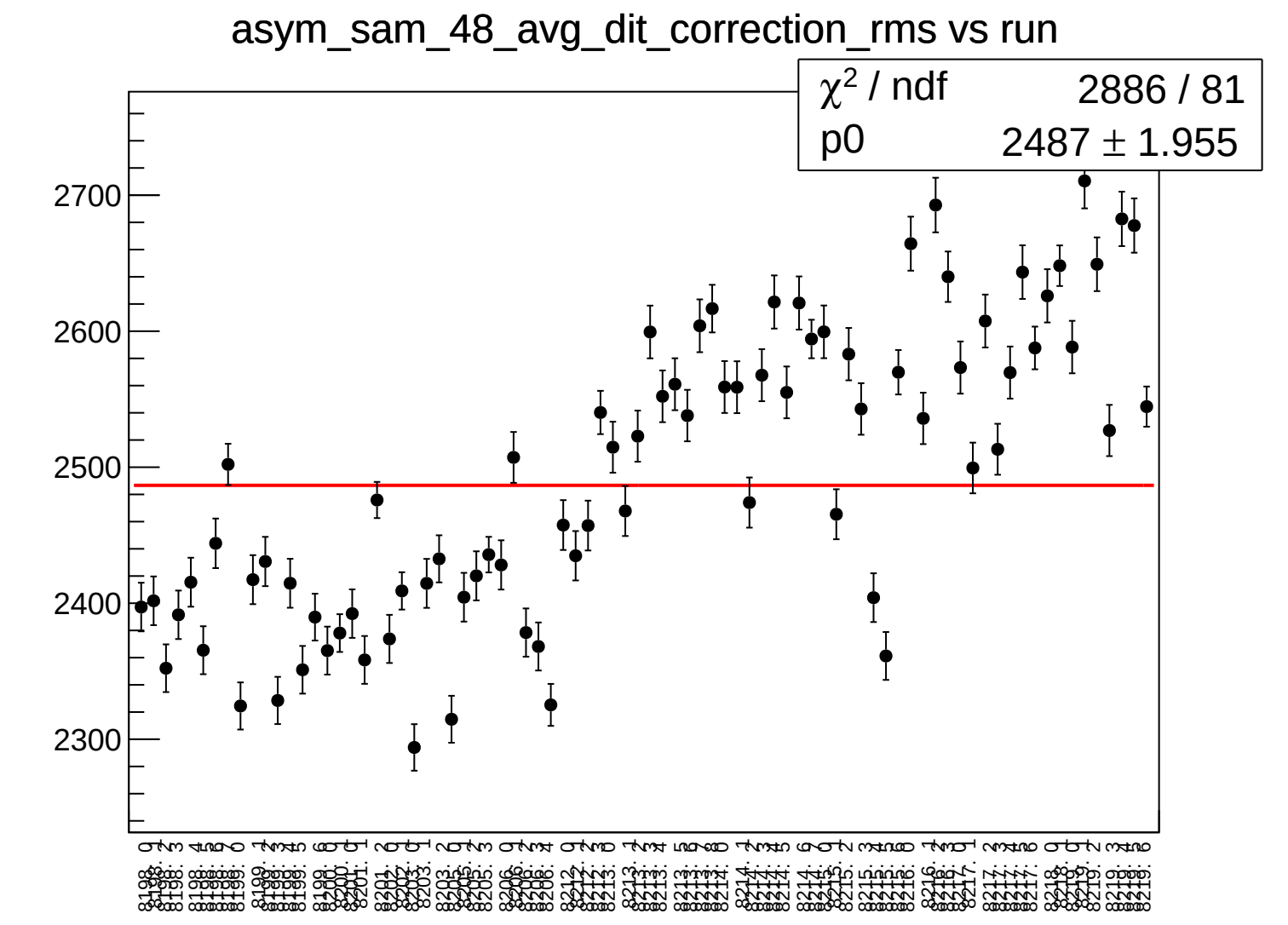

dit_asym_sam_48_avg_mean vs run
χ² / ndf 81.23 / 81
p0 −324.9 ± 225.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 82
Mean −215.6
Std Dev 0
2
1
0
−1
−2
−3

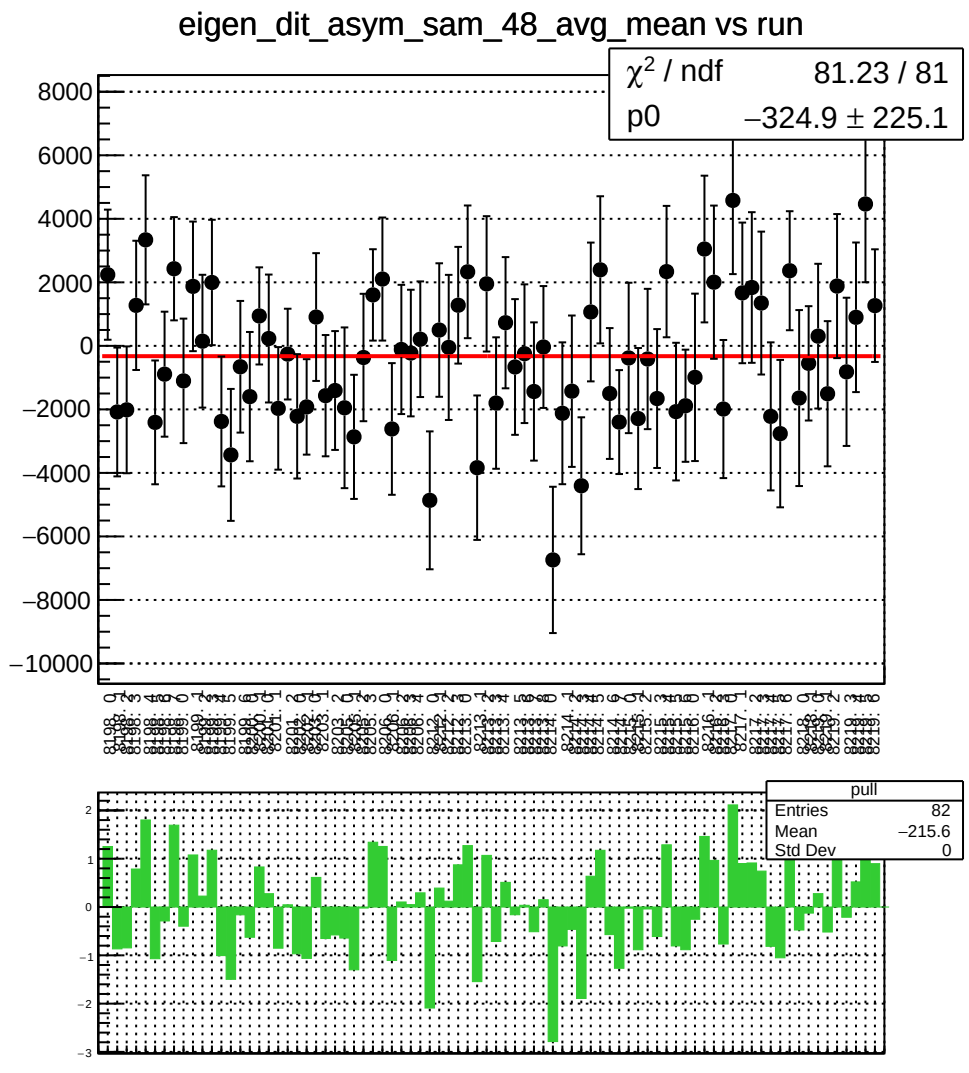

pull1D
Entries 82
Mean −0.008711
Std Dev 0.9952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

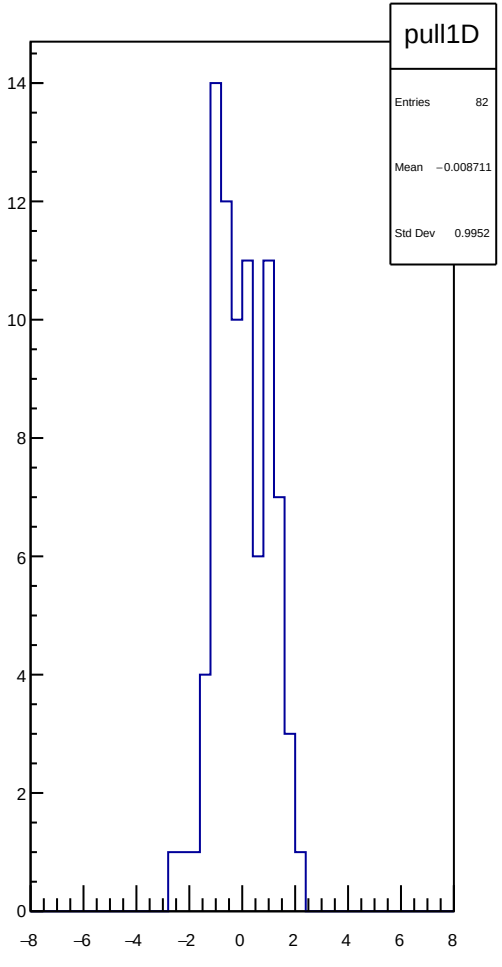

dit_asym_sam_48_avg_rms vs run
χ² / ndf 8997 / 81
p0 202.1 ± 0.1592
260
240
220
200
180

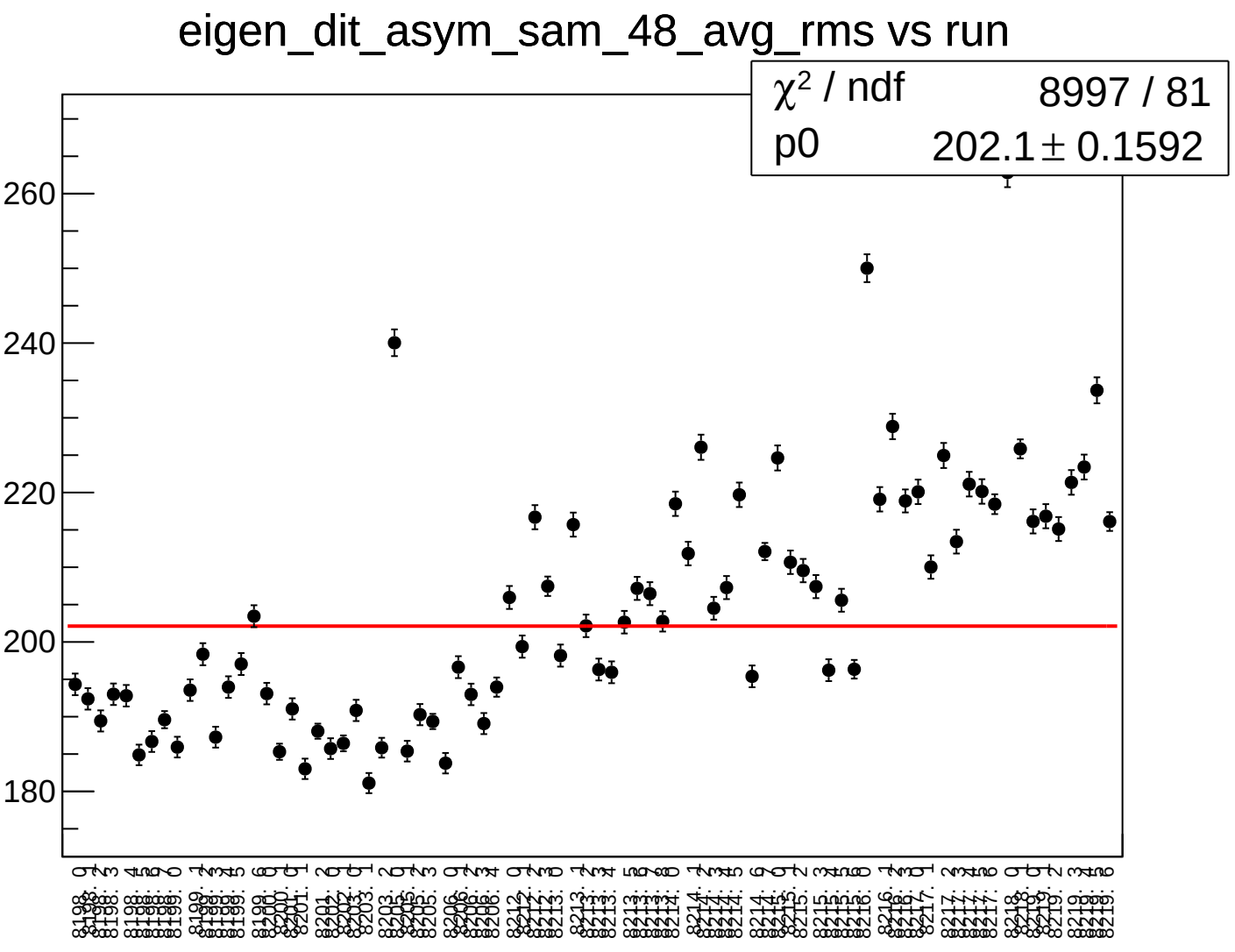

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.94 / 81
p0 −3574 ± 2764
100
50
0
−50
−100
pull
Entries 82
Mean −790.6
Std Dev 0
3
2
1
0
−1
−2
−3

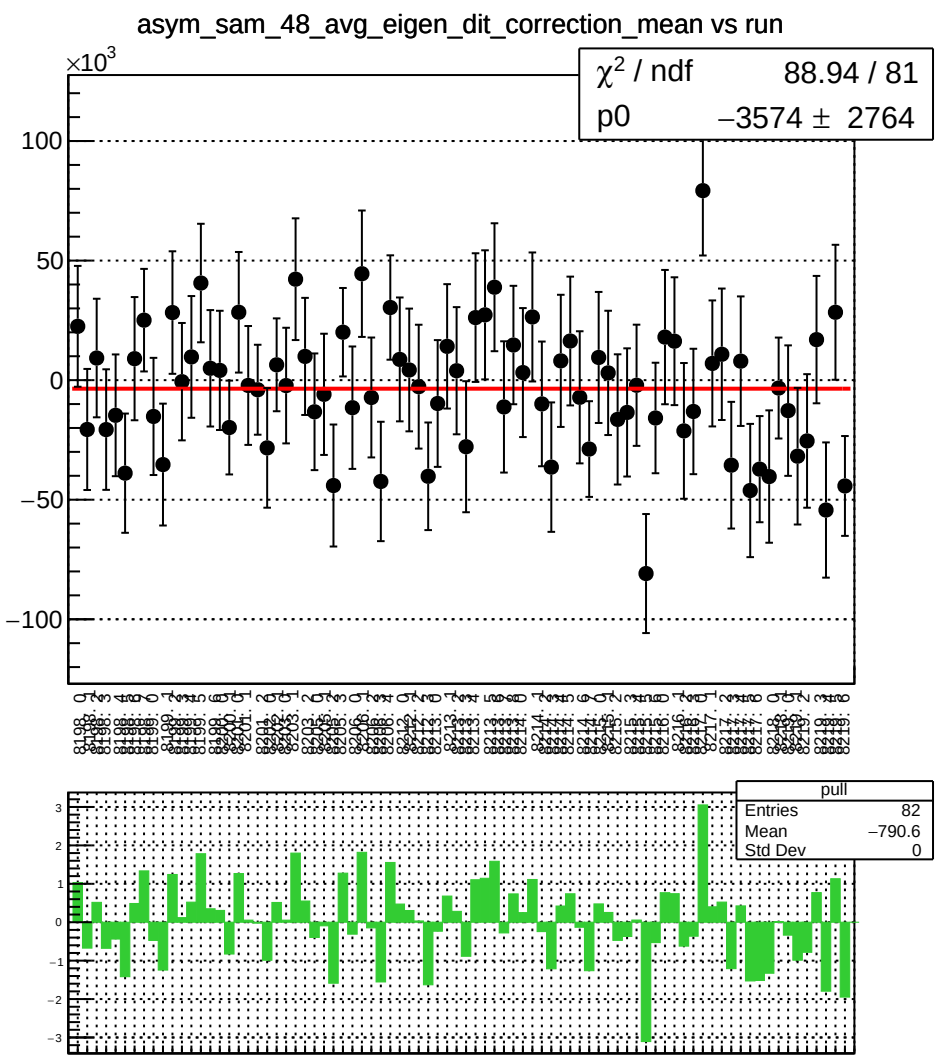

pull1D
Entries 82
Mean 0.00558
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

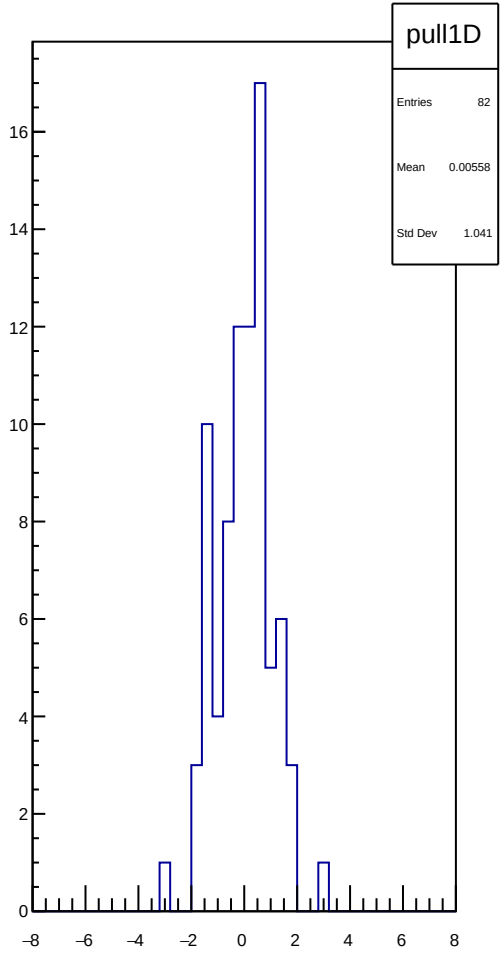

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2886 / 81
p0 2487 ± 1.955
2700
2600
2500
2400
2300

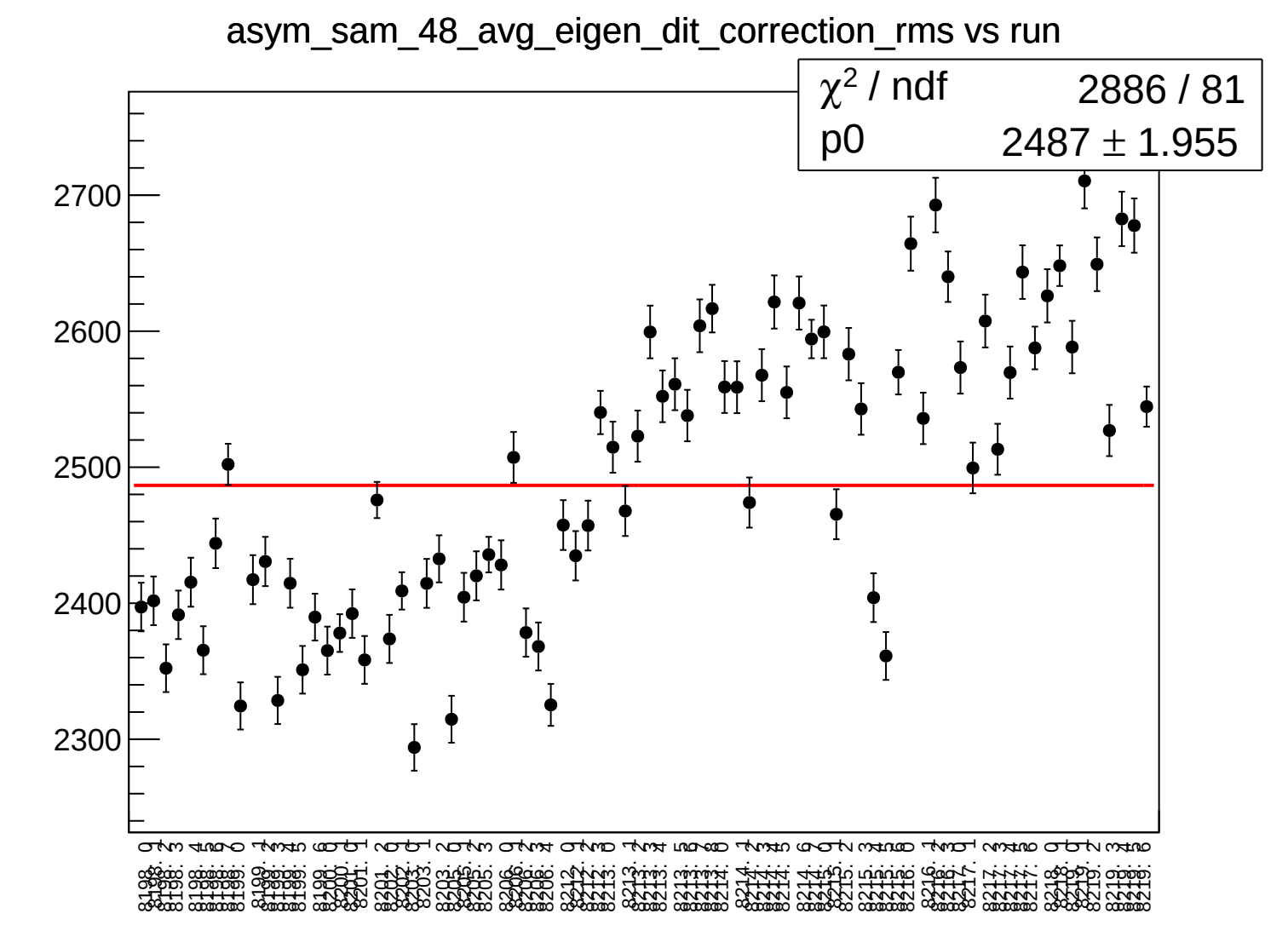

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 81.23 / 81
p0 −324.9 ± 225.1
pull
Entries 82
Mean −215.6
Std Dev 0

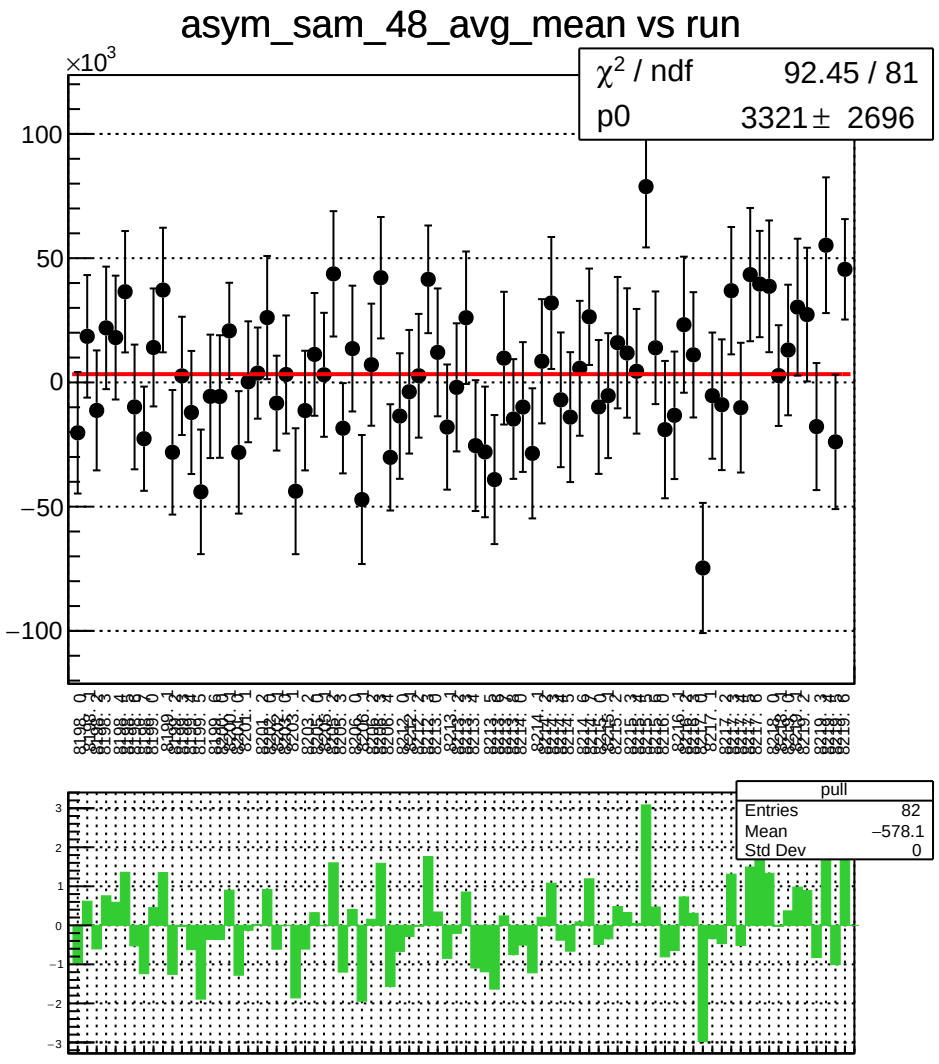

pull1D
Entries 82
Mean −0.008711
Std Dev 0.9952

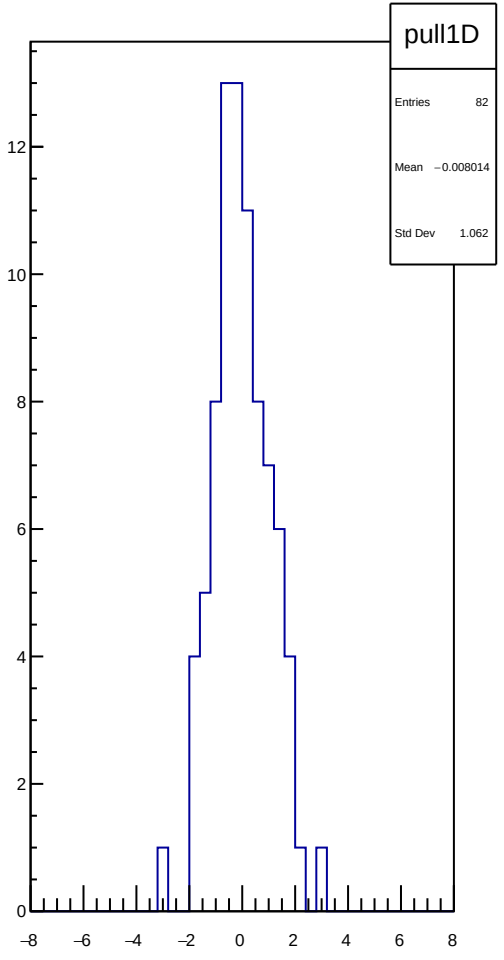

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 8997 / 81
p0 202.1 ± 0.1592
260
240
220
200
180

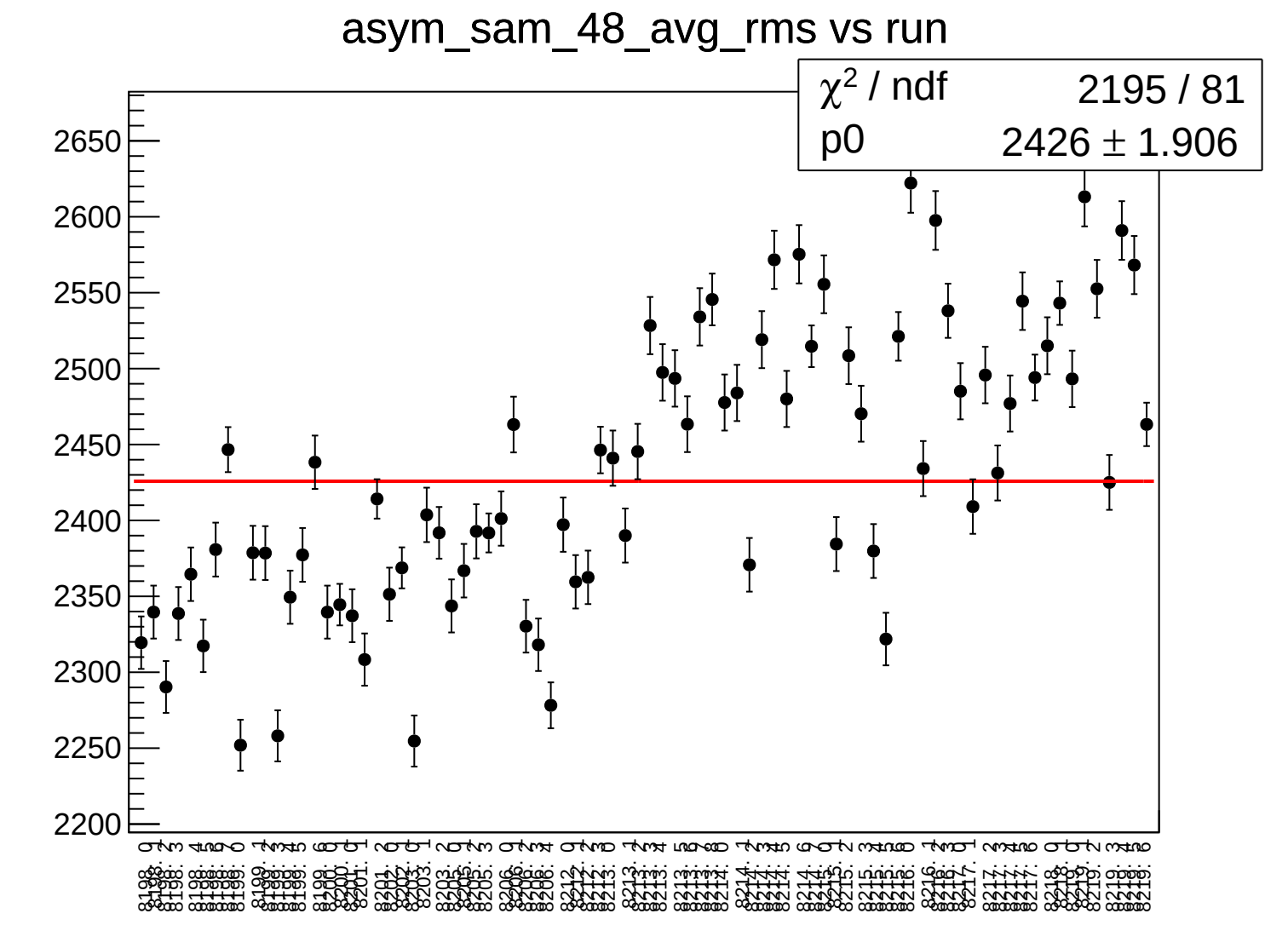

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.94 / 81
p0 −3574 ± 2764
100
50
0
−50
−100
pull
Entries 82
Mean −790.6
Std Dev 0
3
2
1
0
−1
−2
−3

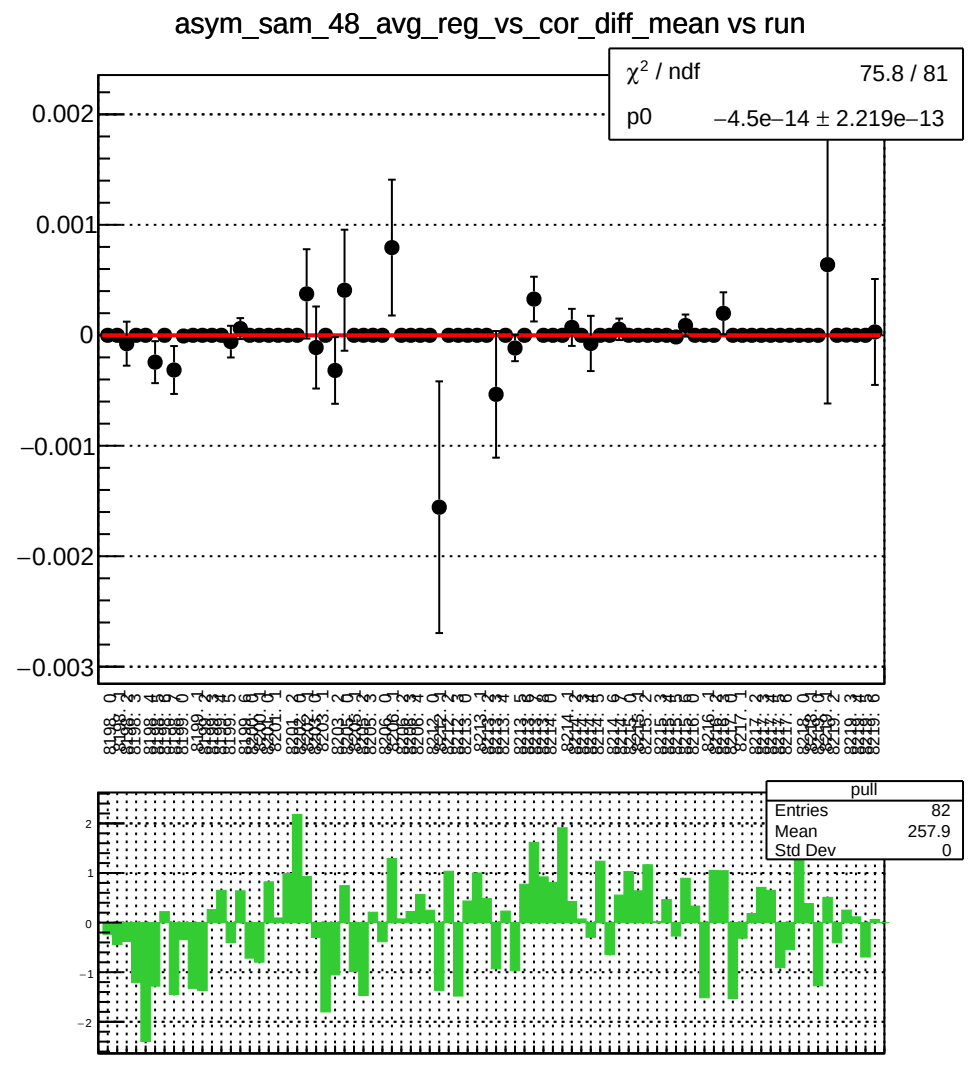

pull1D
Entries 82
Mean 0.00558
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

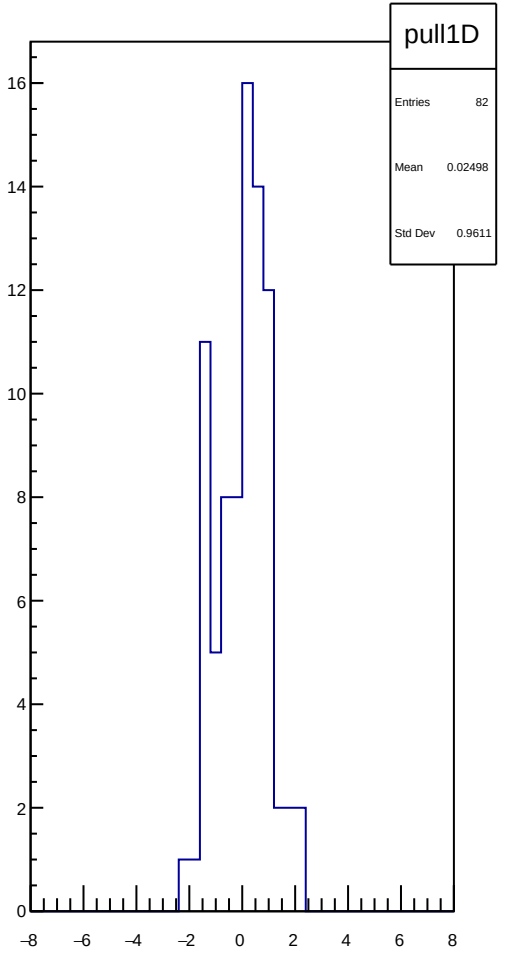

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2886 / 81
p0 2487 ± 1.955
2700
2600
2500
2400
2300

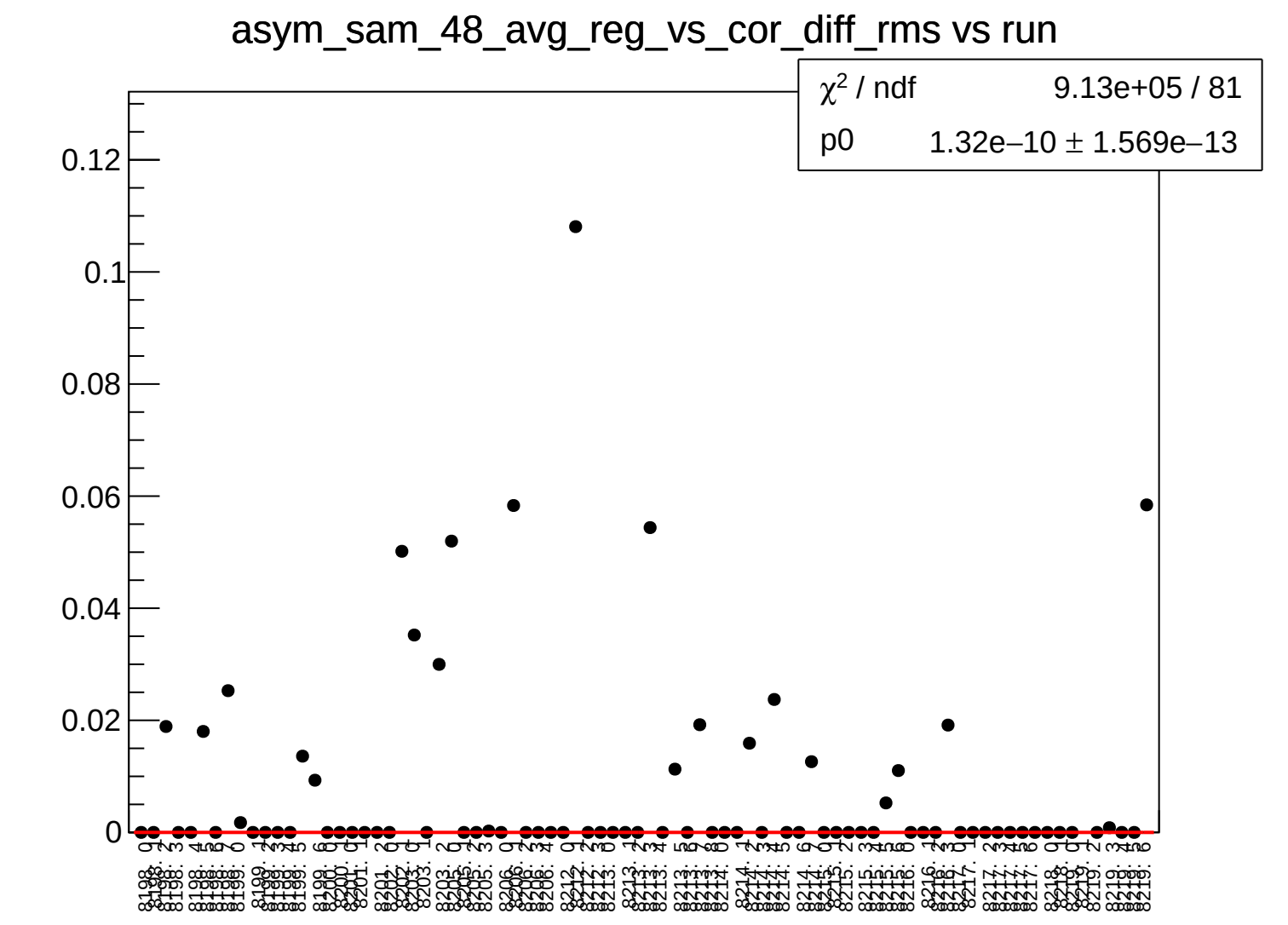

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 92.45 / 81
p0 3321 ± 2696
100
50
0
−50
−100
pull
Entries 82
Mean −578.1
Std Dev 0
3
2
1
0
−1
−2
−3

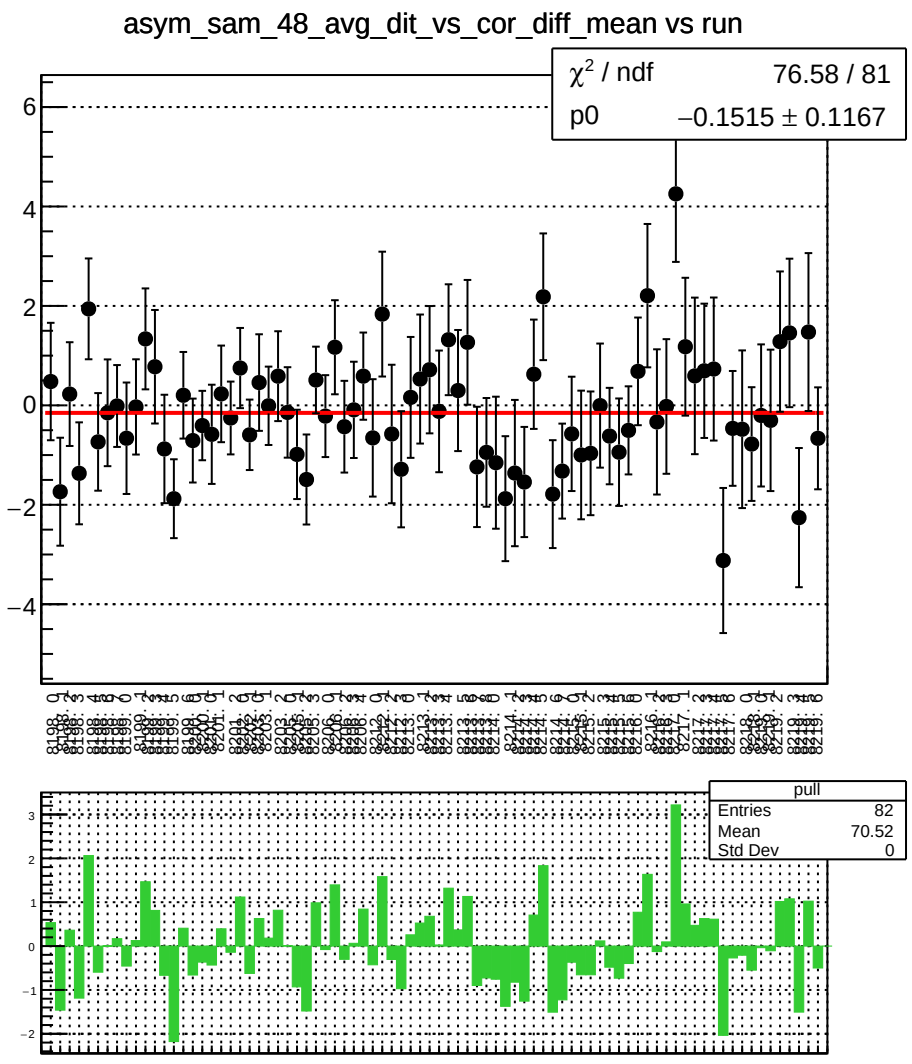

pull1D
Entries 82
Mean −0.008014
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

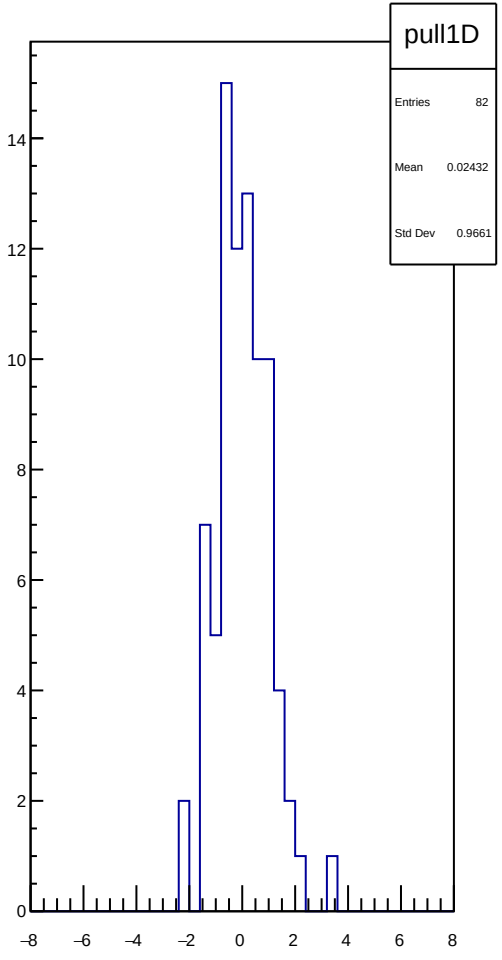

asym_sam_48_avg_rms vs run
χ² / ndf 2195 / 81
p0 2426 ± 1.906
2650
2600
2550
2500
2450
2400
2350
2300
2250
2200

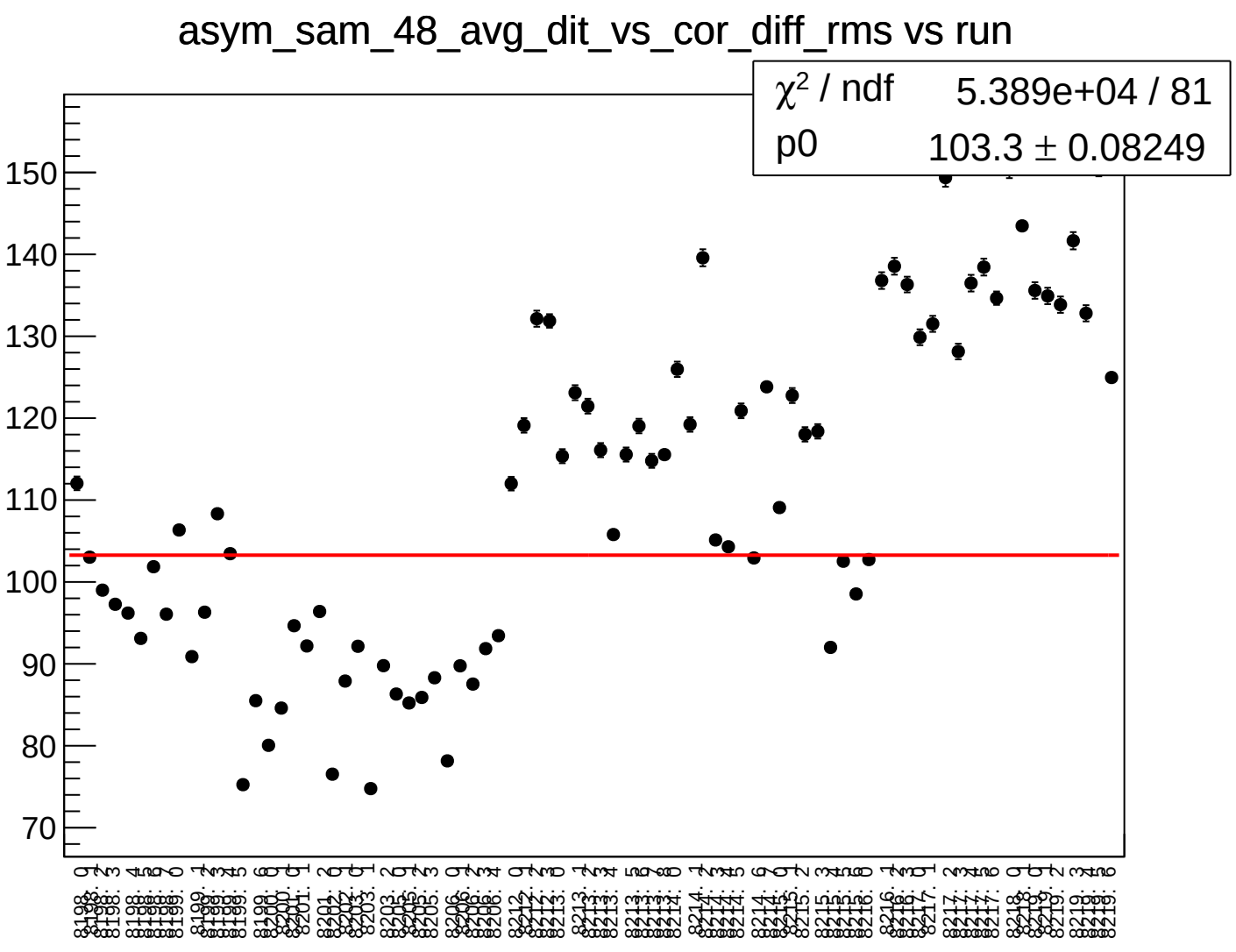

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.8 / 81
p0 −4.5e−14 ± 2.219e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 82
Mean 257.9
Std Dev 0
2
1
0
−1
−2

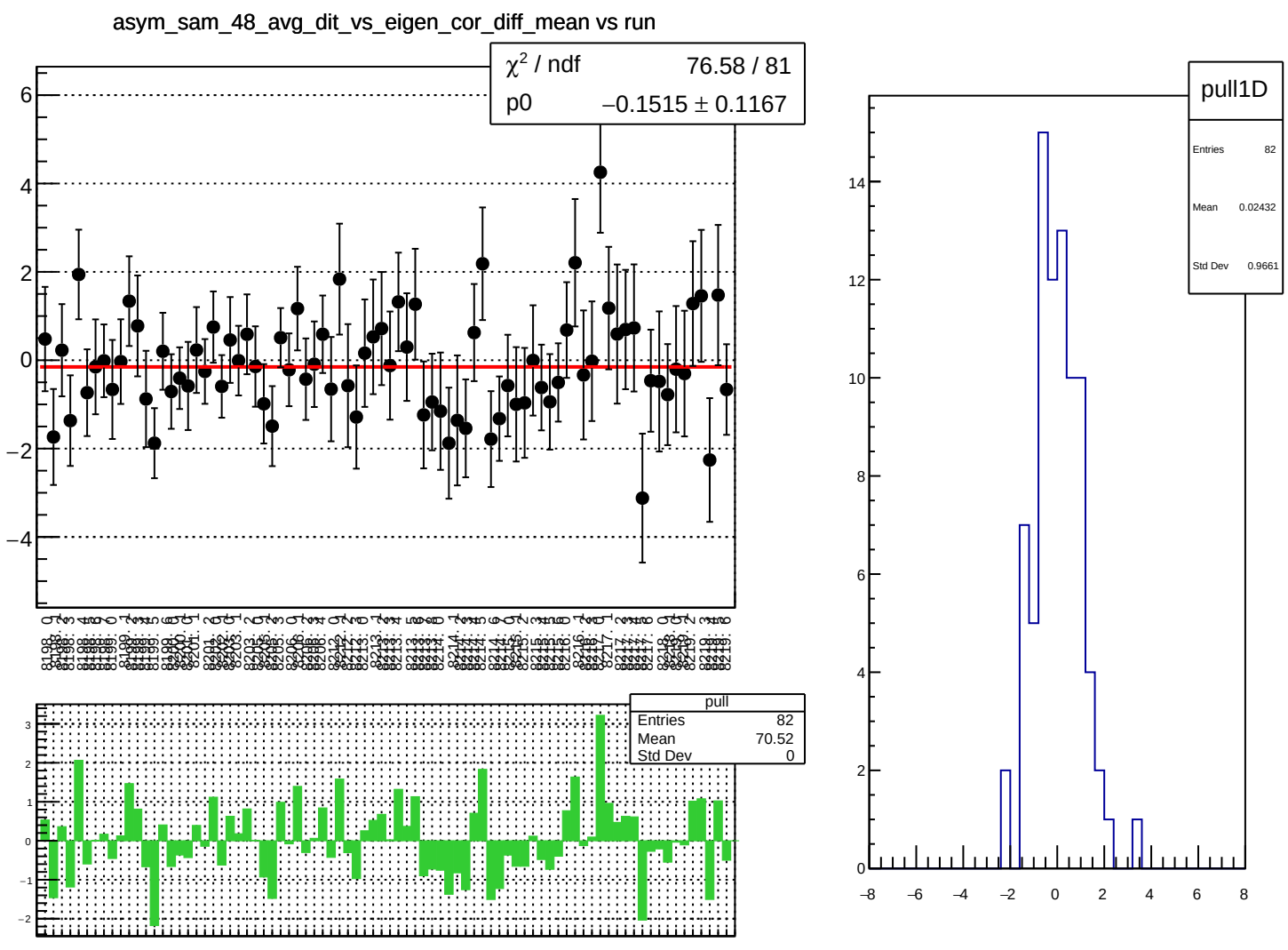

pull1D
Entries 82
Mean 0.02498
Std Dev 0.9611
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

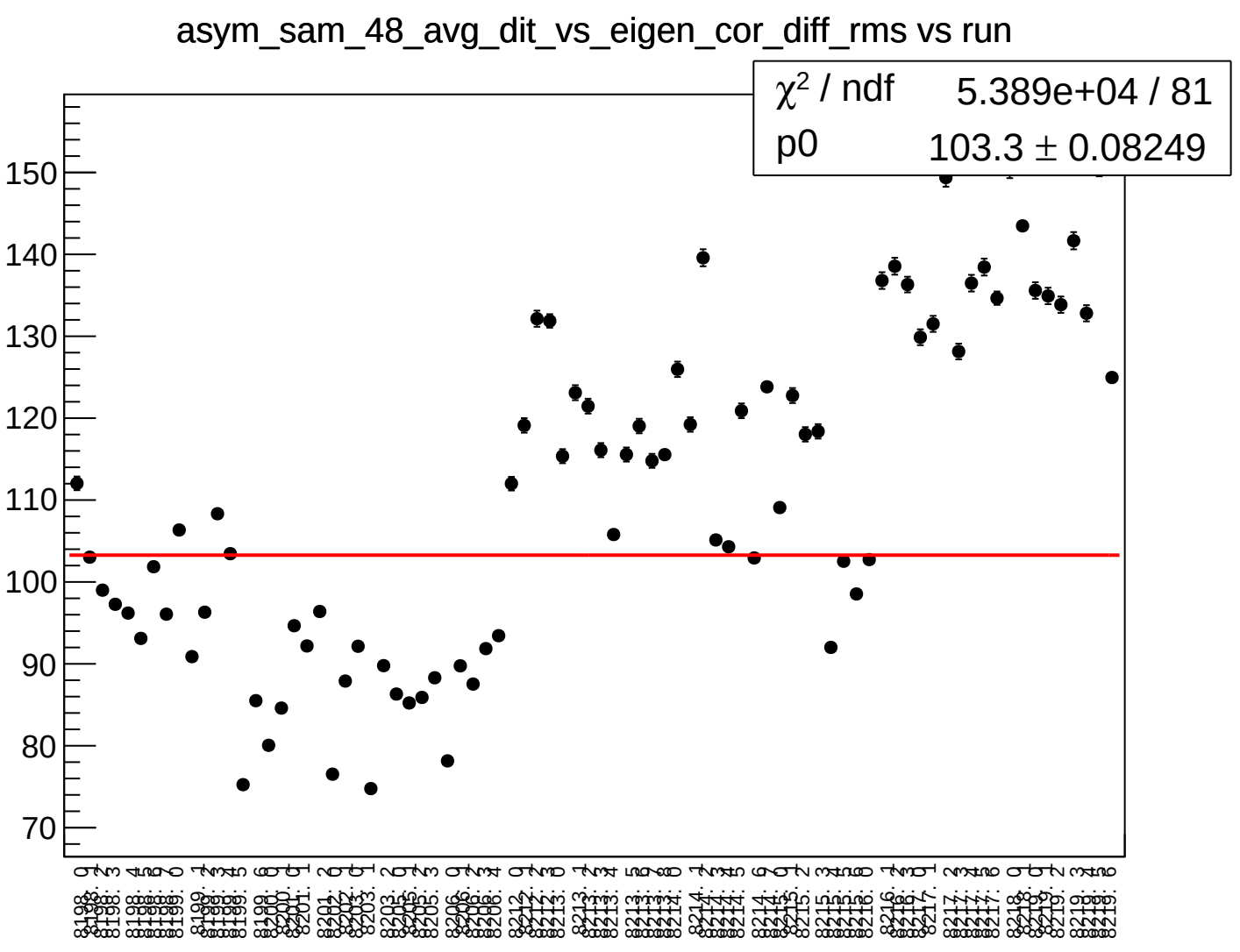

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.13e+05 / 81
p0 1.32e−10 ± 1.569e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

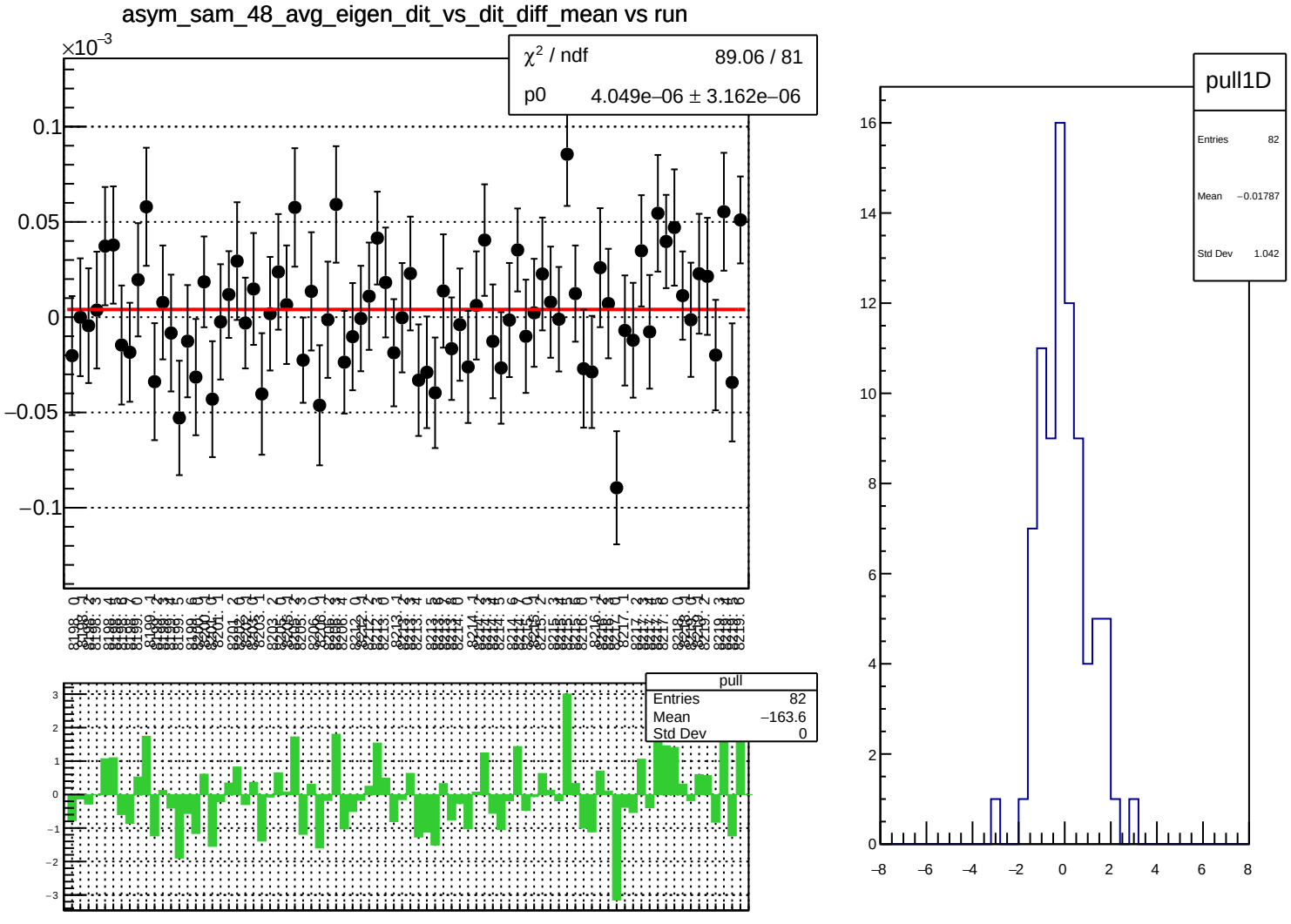

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.58 / 81
p0 −0.1515 ± 0.1167
pull
Entries 82
Mean 70.52
Std Dev 0

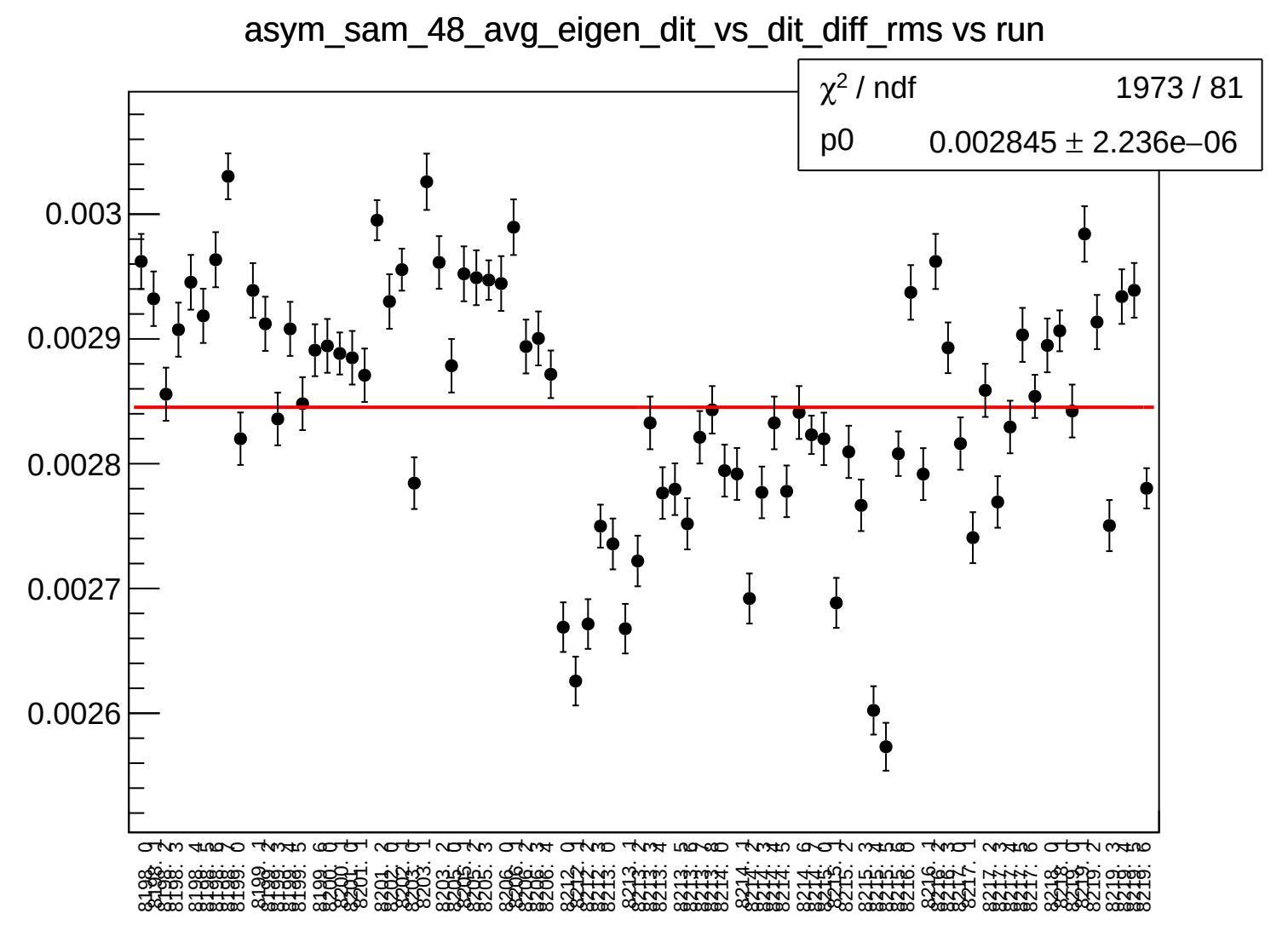

pull1D
Entries 82
Mean 0.02432
Std Dev 0.9661

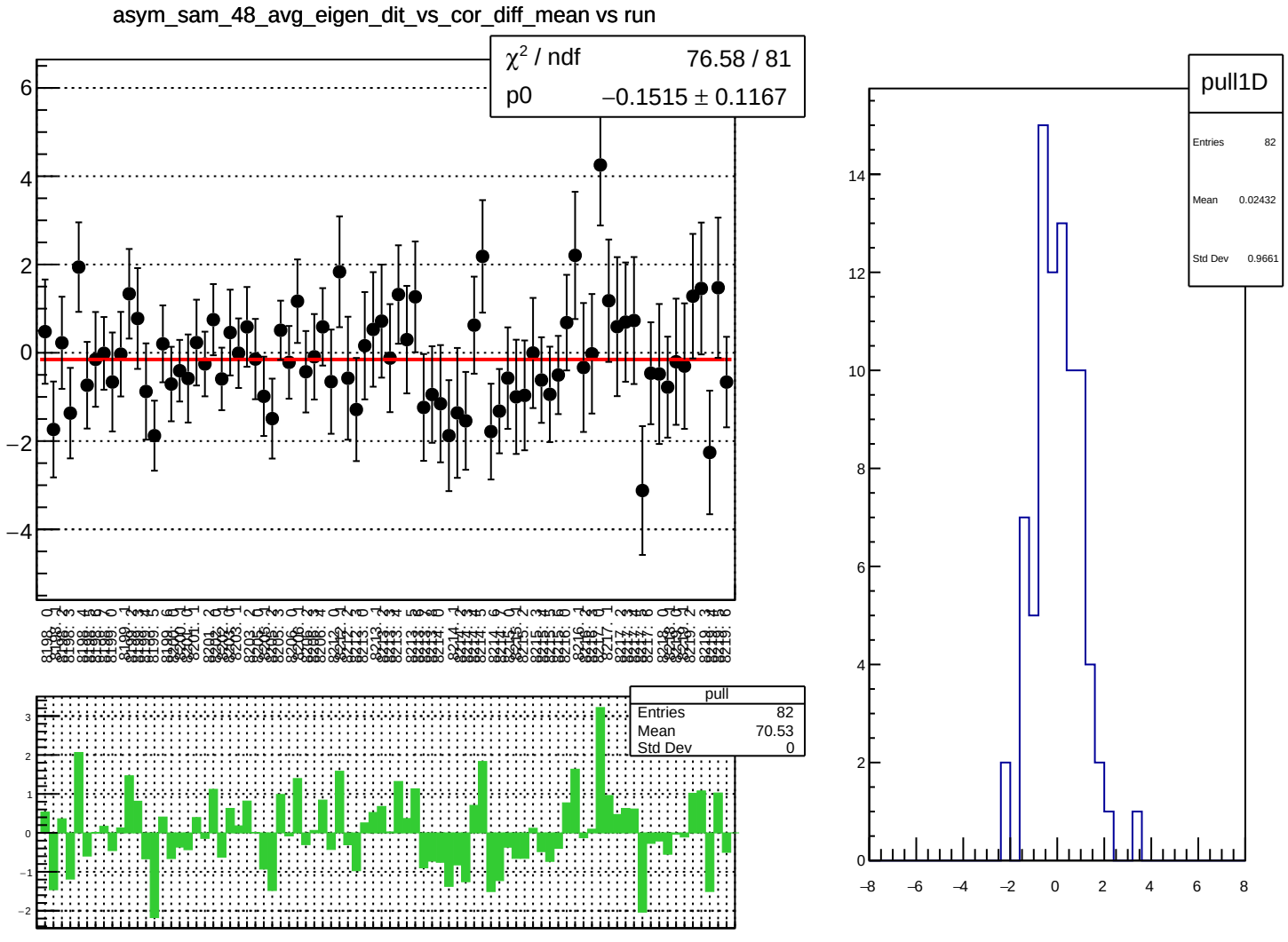

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.389e+04 / 81
p0 103.3 ± 0.08249
150
140
130
120
110
100
90
80
70

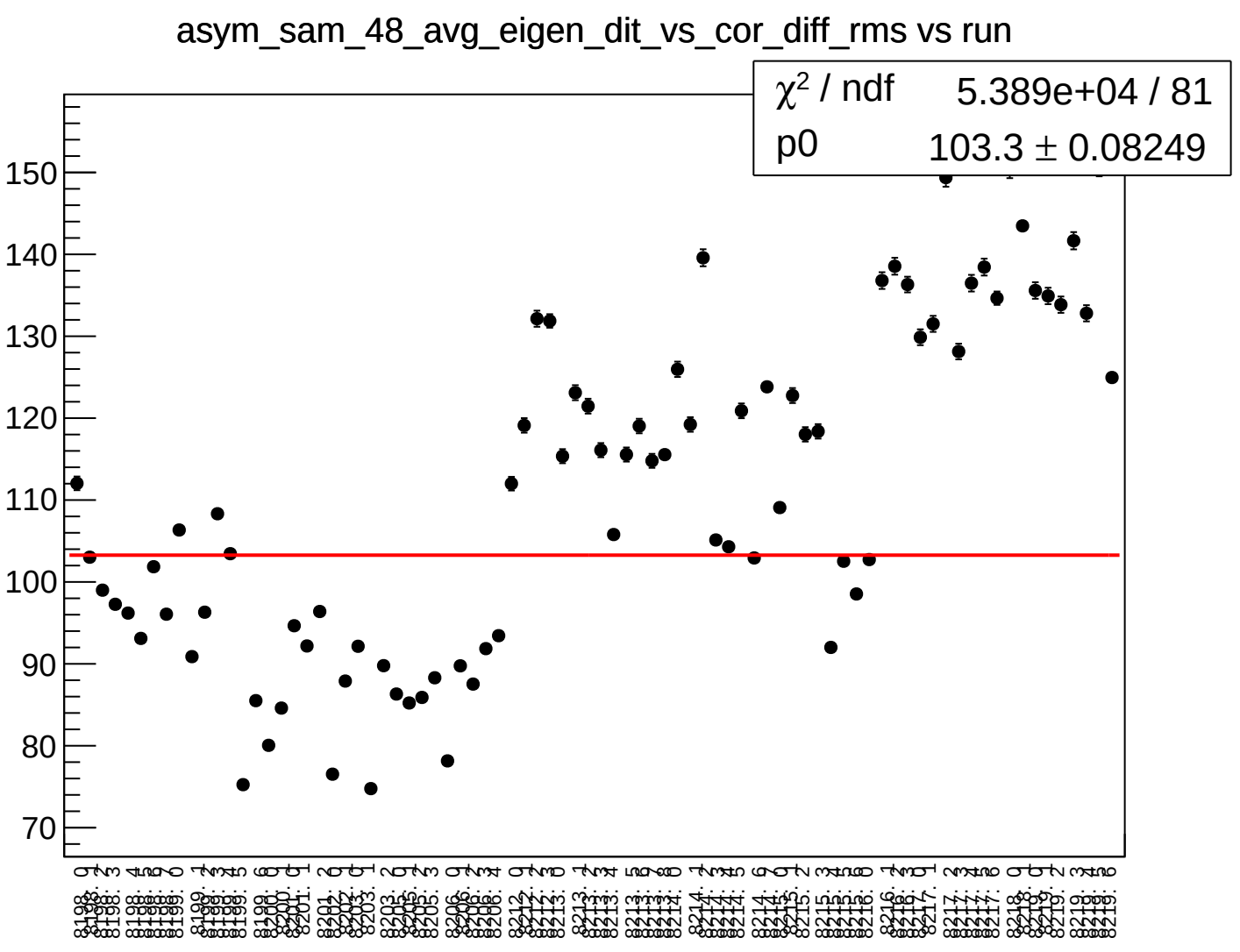

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.58 / 81
p0 −0.1515 ± 0.1167
pull
Entries 82
Mean 70.52
Std Dev 0
pull1D
Entries 82
Mean 0.02432
Std Dev 0.9661

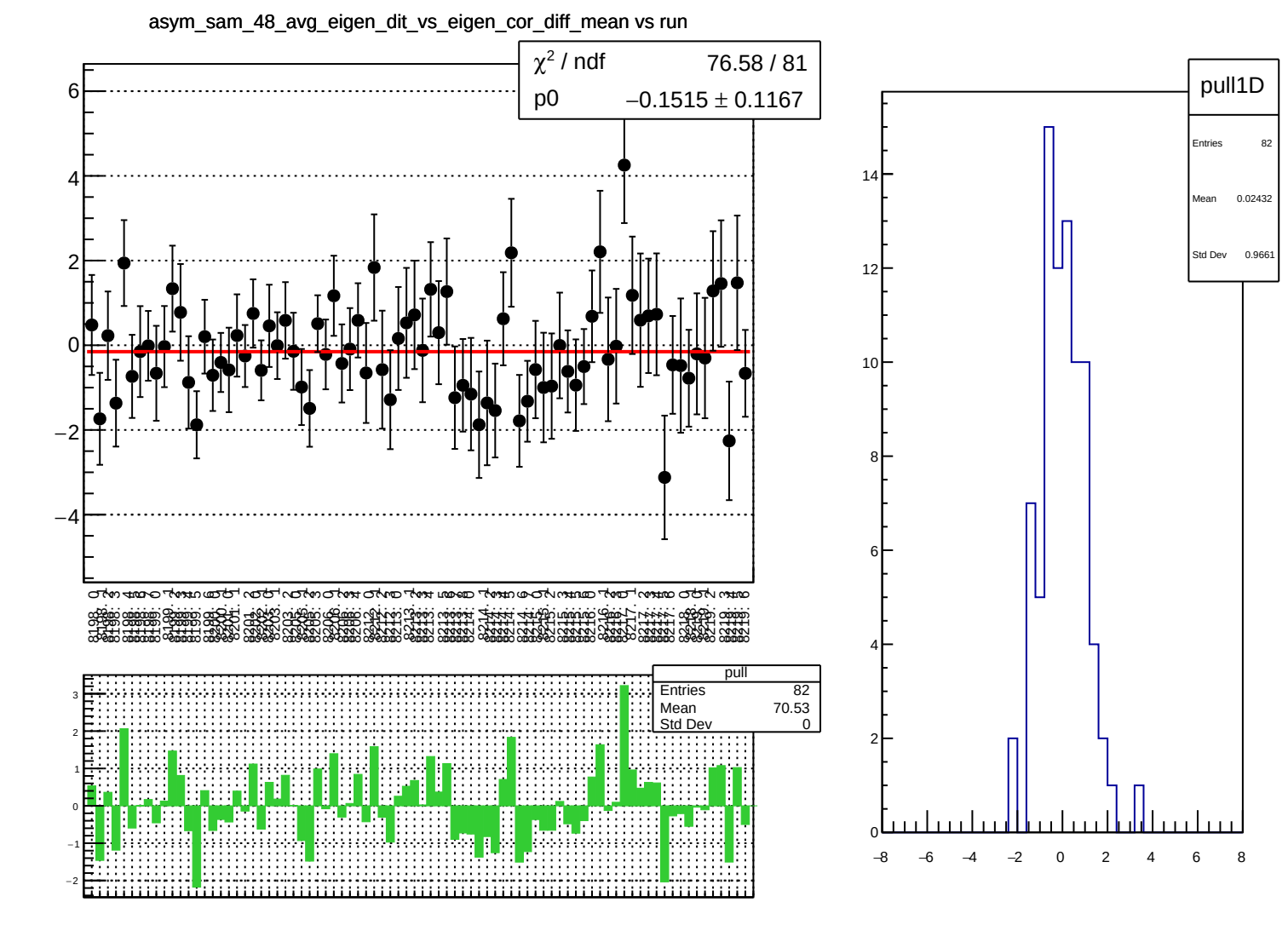

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.389e+04 / 81
p0 103.3 ± 0.08249
150
140
130
120
110
100
90
80
70

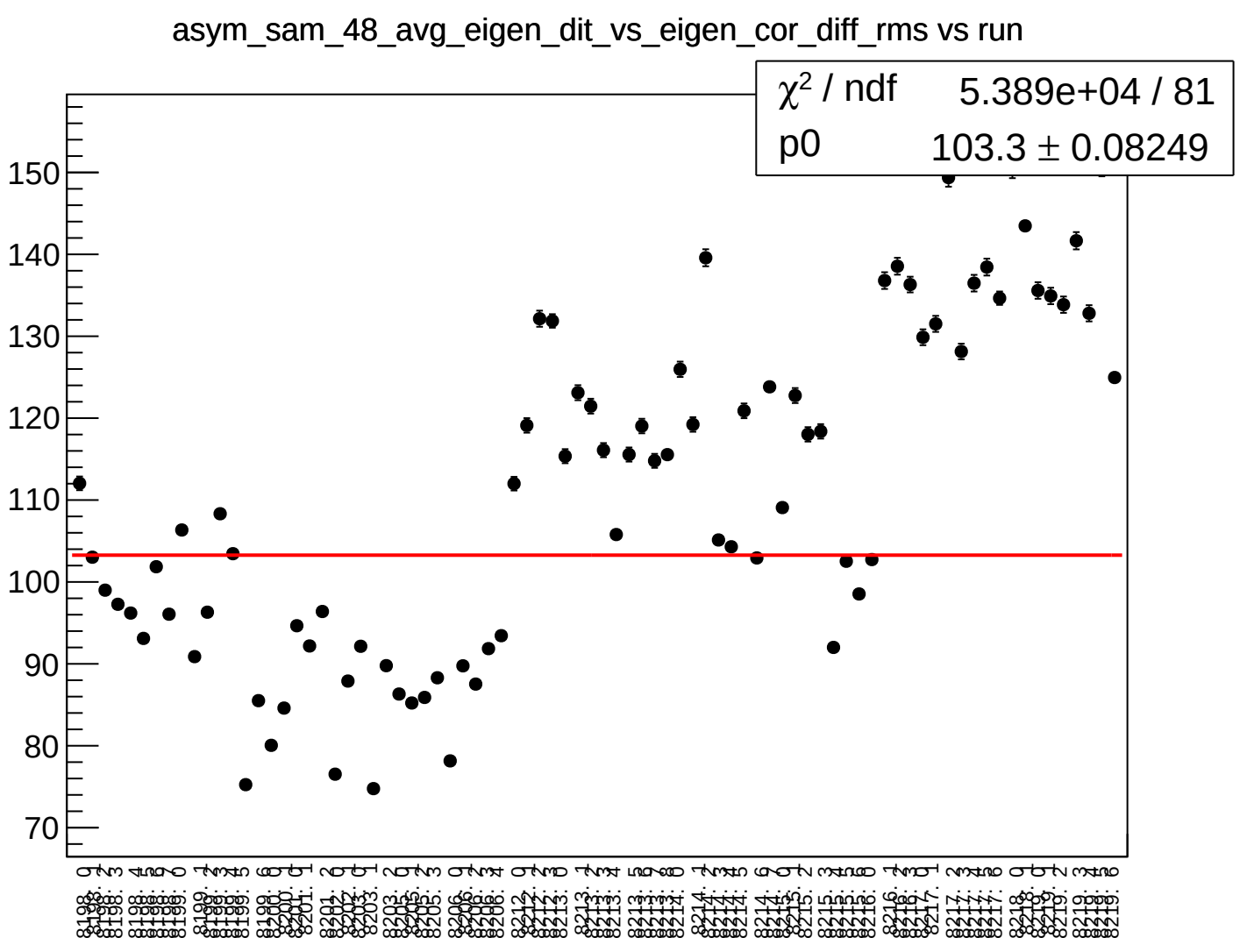

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.06 / 81
p0 4.049e−06 ± 3.162e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean −163.6
Std Dev 0
pull1D
Entries 82
Mean −0.01787
Std Dev 1.042

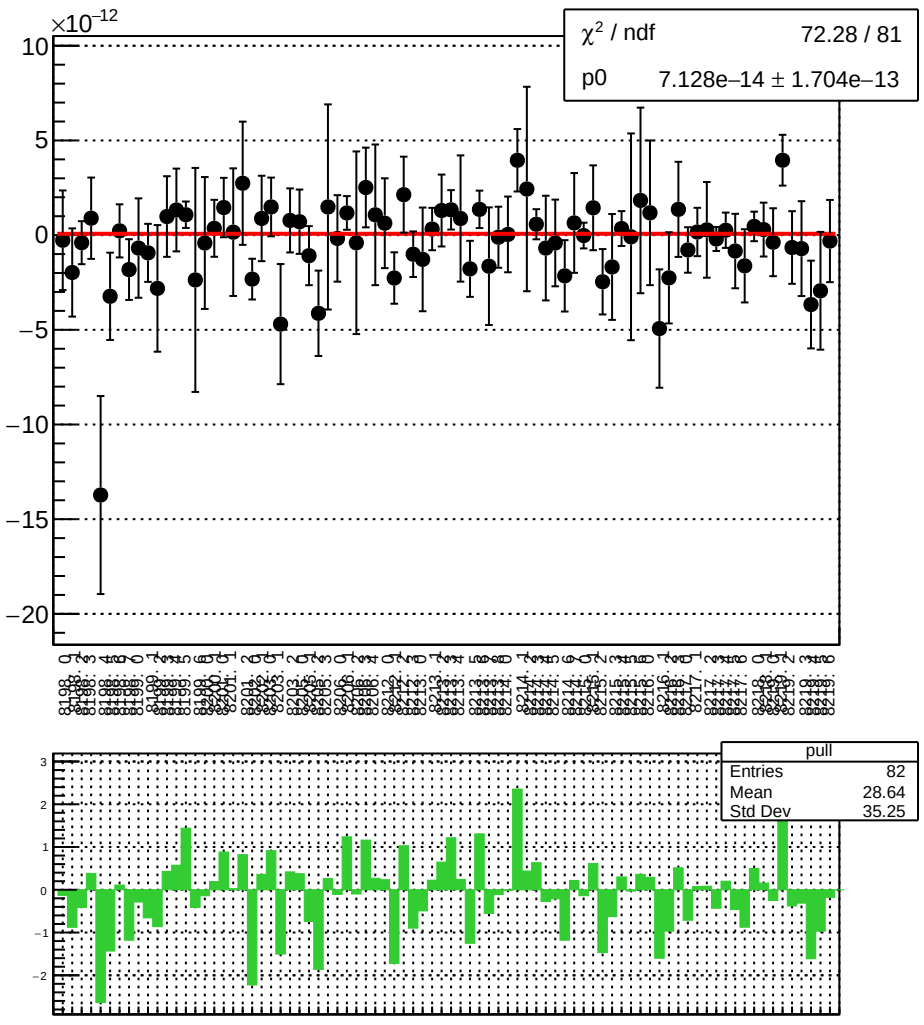

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1973 / 81
p0 0.002845 ± 2.236e−06
0.003
0.0029
0.0028
0.0027
0.0026

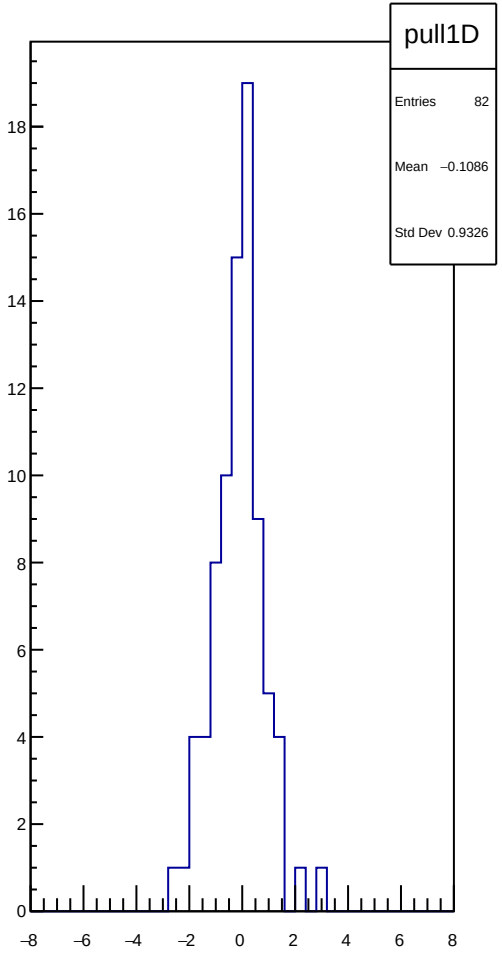

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.58 / 81
p0 −0.1515 ± 0.1167
pull
Entries 82
Mean 70.53
Std Dev 0
pull1D
Entries 82
Mean 0.02432
Std Dev 0.9661

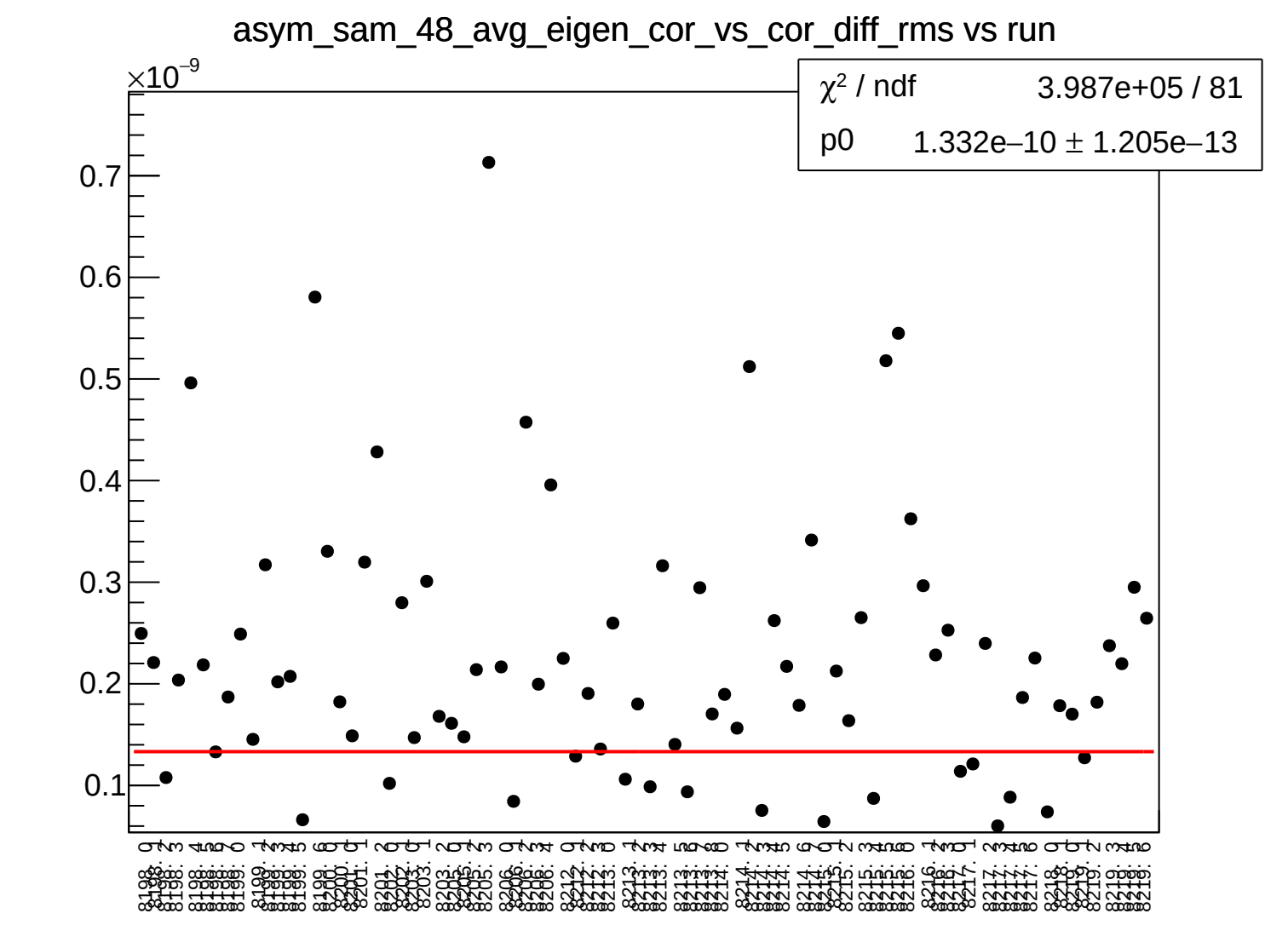

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.389e+04 / 81
p0 103.3 ± 0.08249
150
140
130
120
110
100
90
80
70

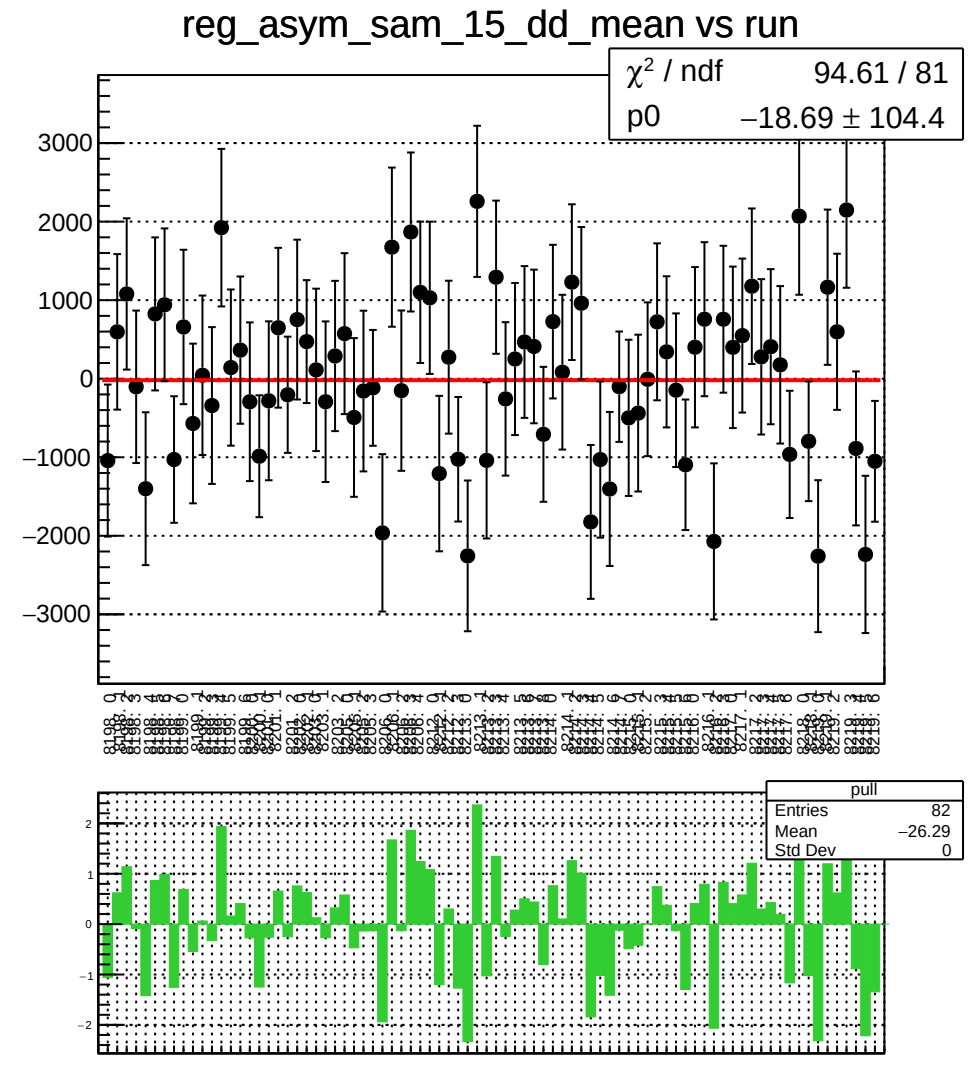

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.58 / 81
p0 −0.1515 ± 0.1167
pull
Entries 82
Mean 70.53
Std Dev 0
pull1D
Entries 82
Mean 0.02432
Std Dev 0.9661

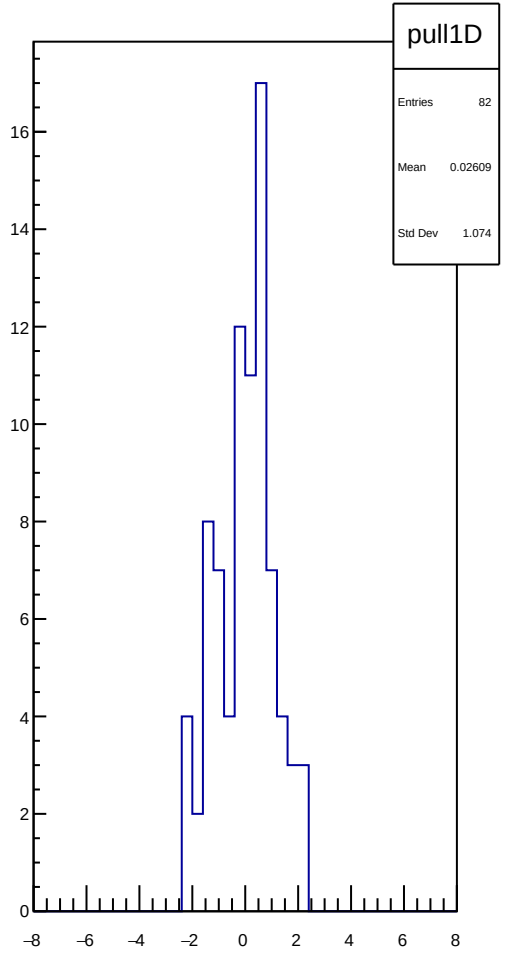

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.389e+04 / 81
p0 103.3 ± 0.08249
150
140
130
120
110
100
90
80
70

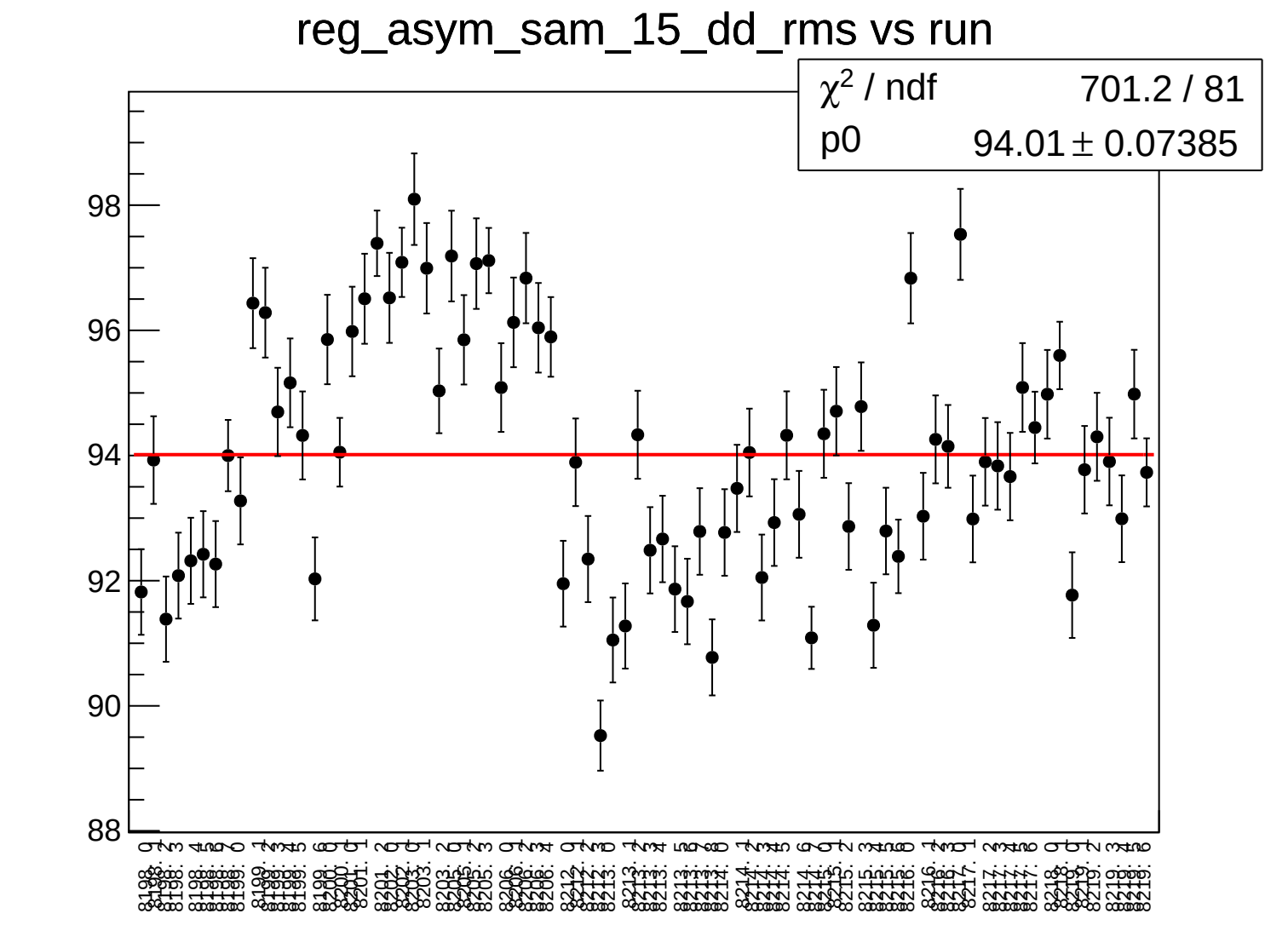

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.28 / 81
p0 7.128e−14 ± 1.704e−13
pull
Entries 82
Mean 28.64
Std Dev 35.25

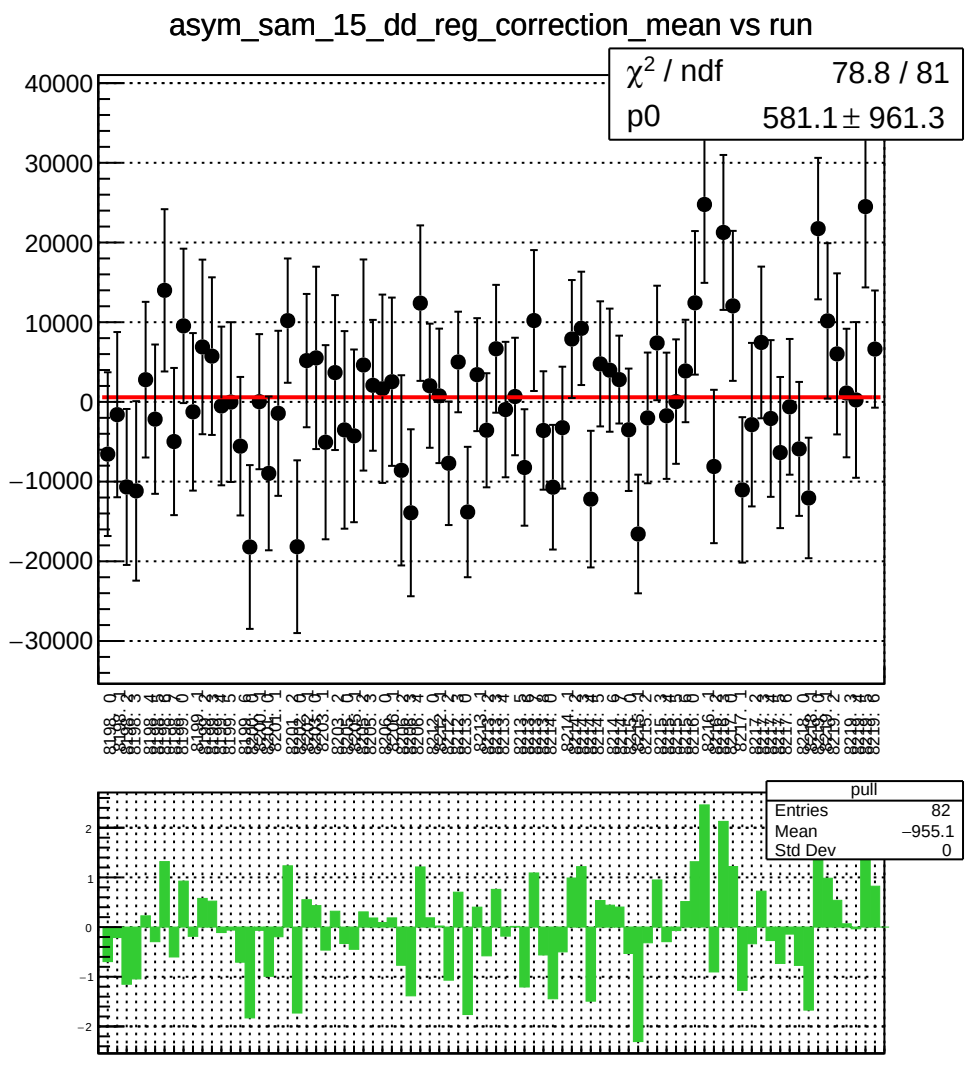

pull1D
Entries 82
Mean −0.1086
Std Dev 0.9326

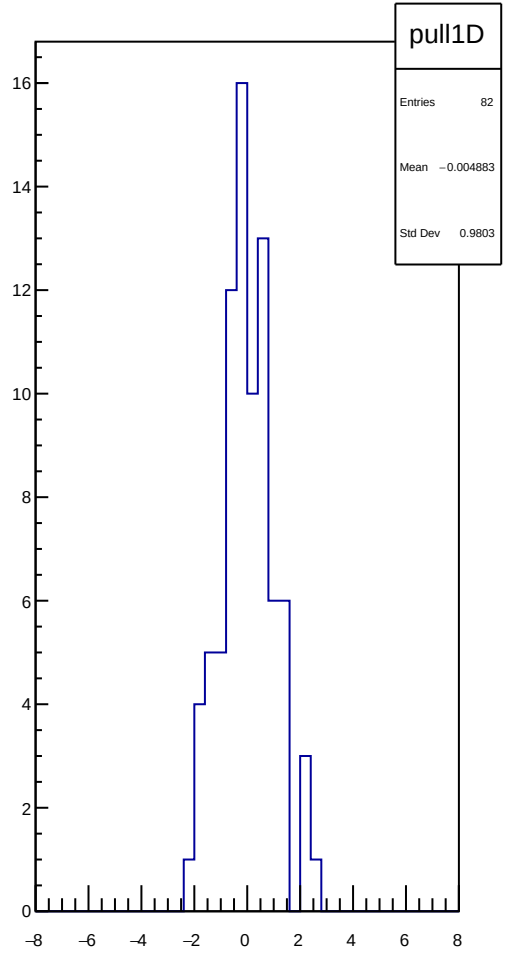

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.987e+05 / 81
p0 1.332e−10 ± 1.205e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

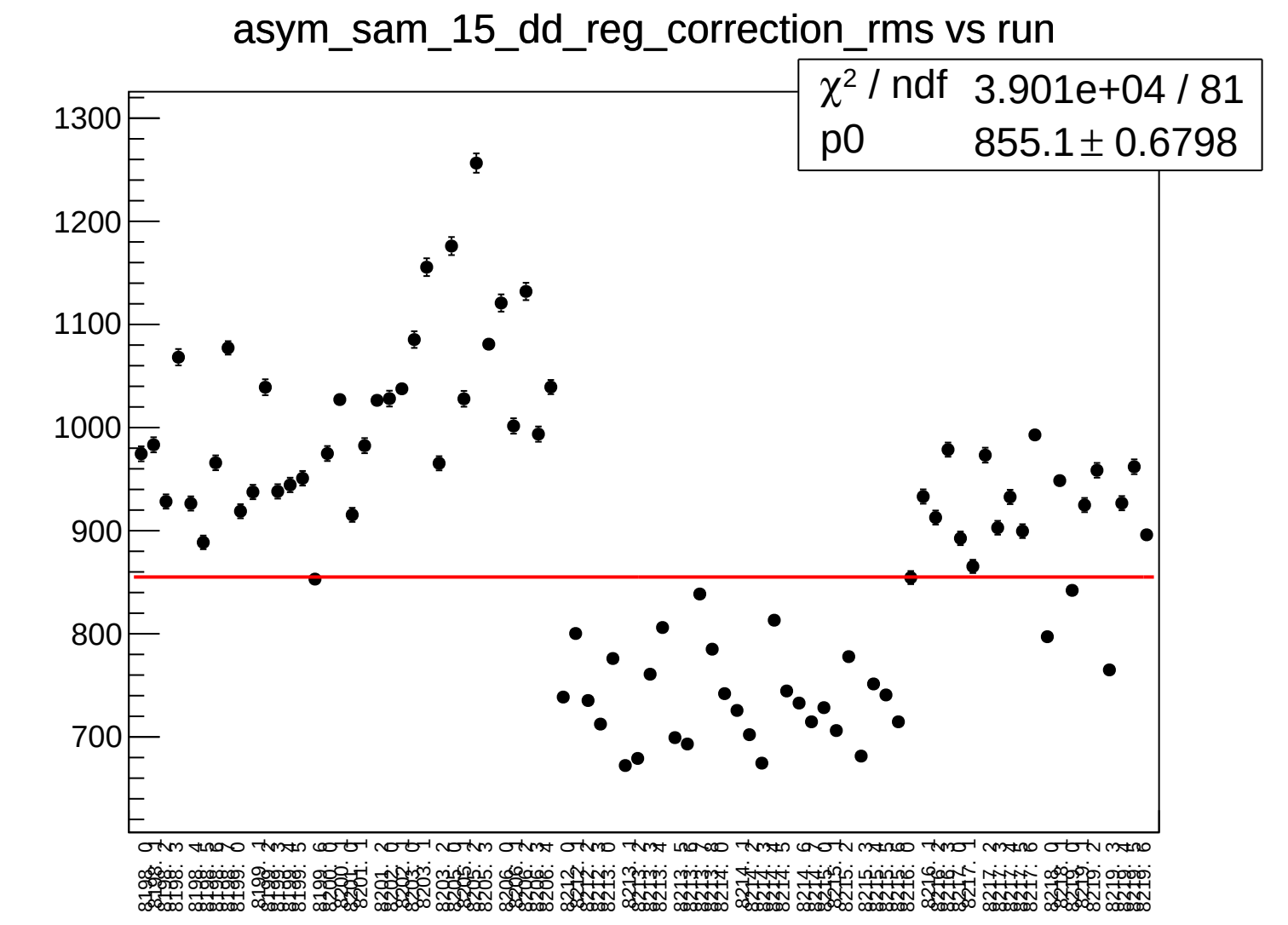

reg_asym_sam_15_dd_mean vs run
χ² / ndf 94.61 / 81
p0 −18.69 ± 104.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean −26.29
Std Dev 0
2
1
0
−1
−2

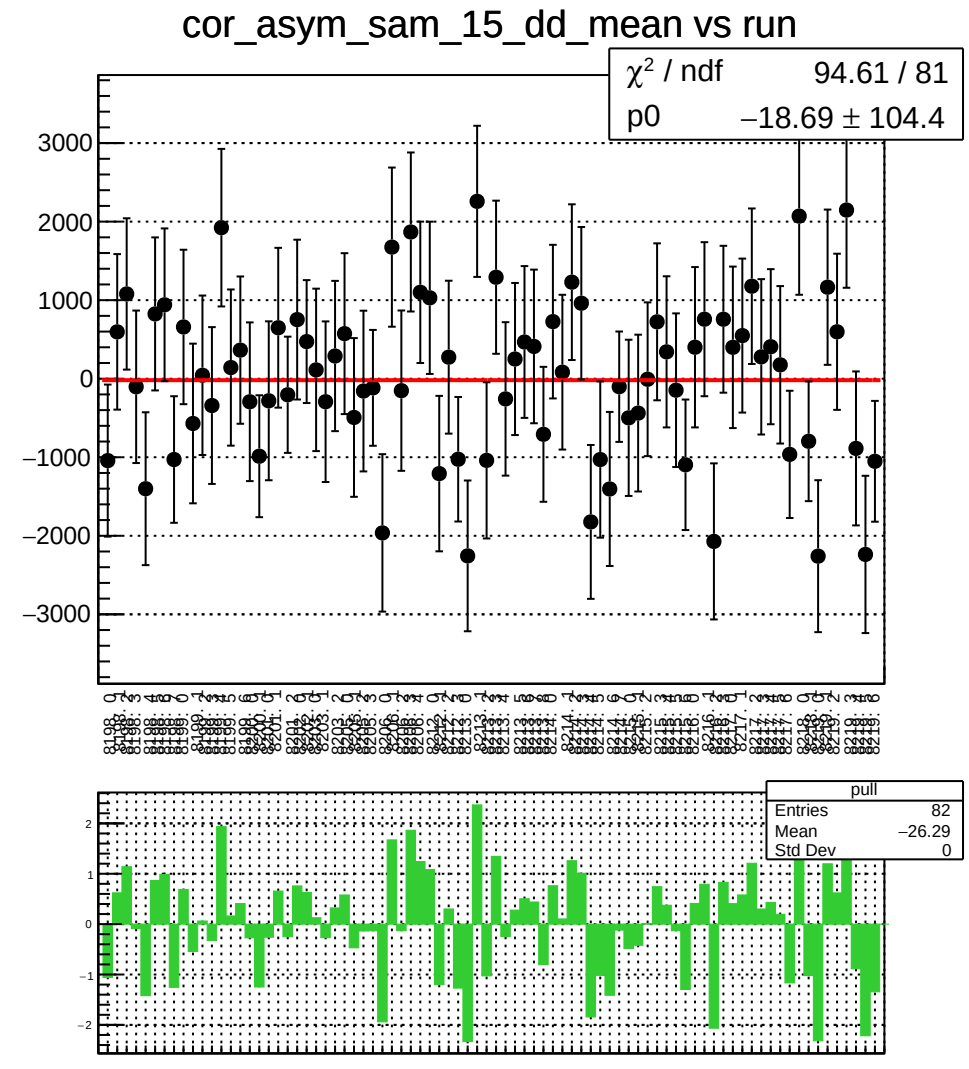

pull1D
Entries 82
Mean 0.02609
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

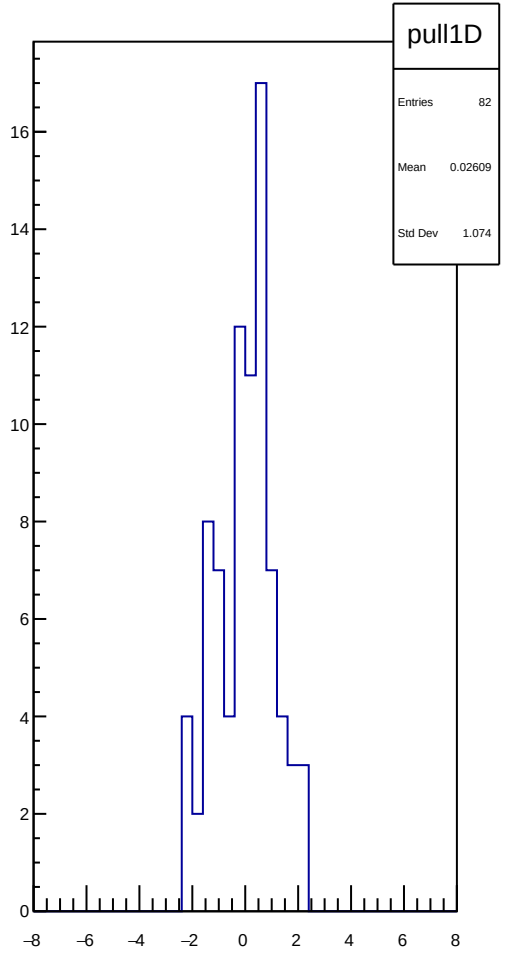

reg_asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 701.2 / 81
p0 94.01 ± 0.07385
98
96
94
92
90
88

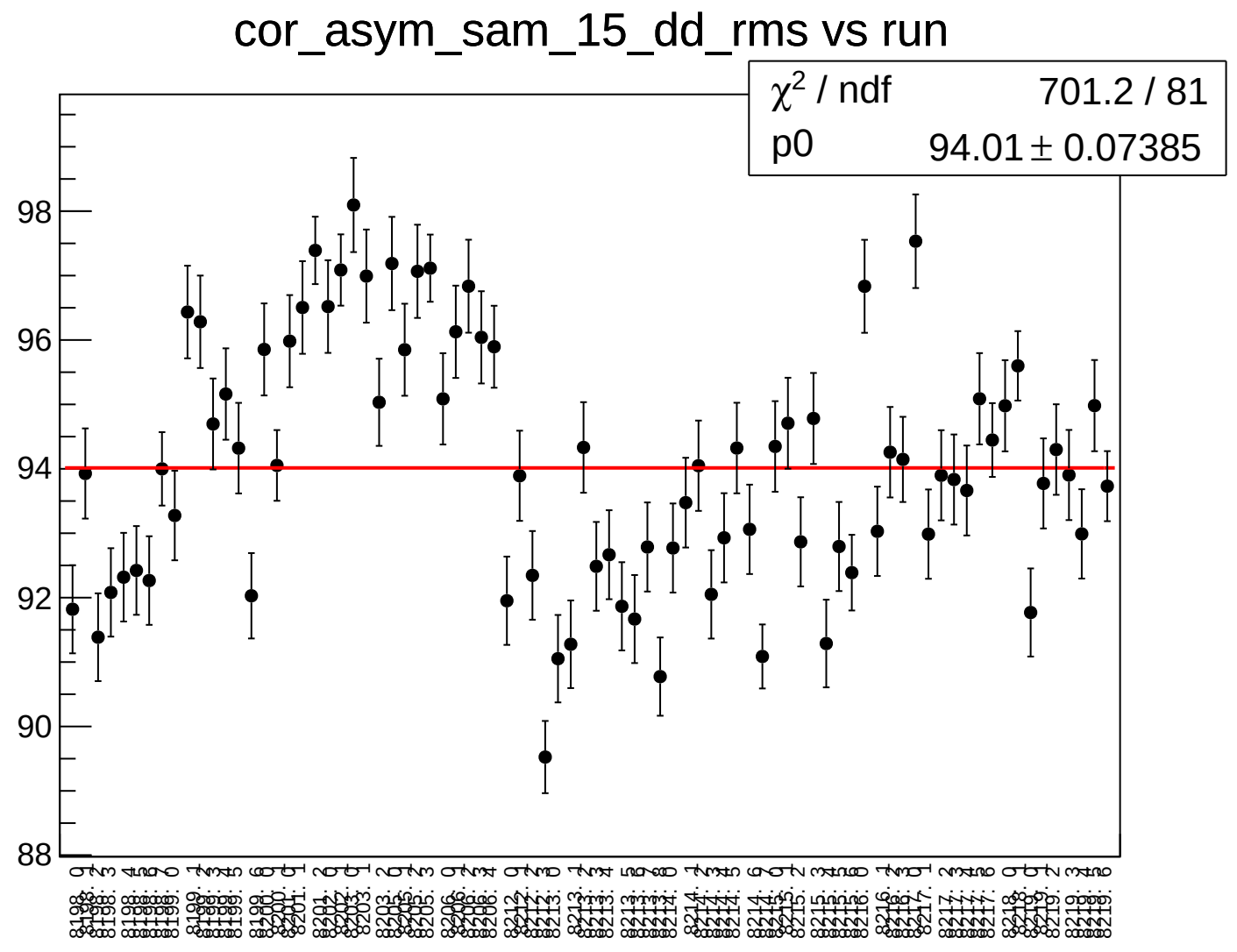

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 78.8 / 81
p0 581.1 ± 961.3
pull
Entries 82
Mean −955.1
Std Dev 0

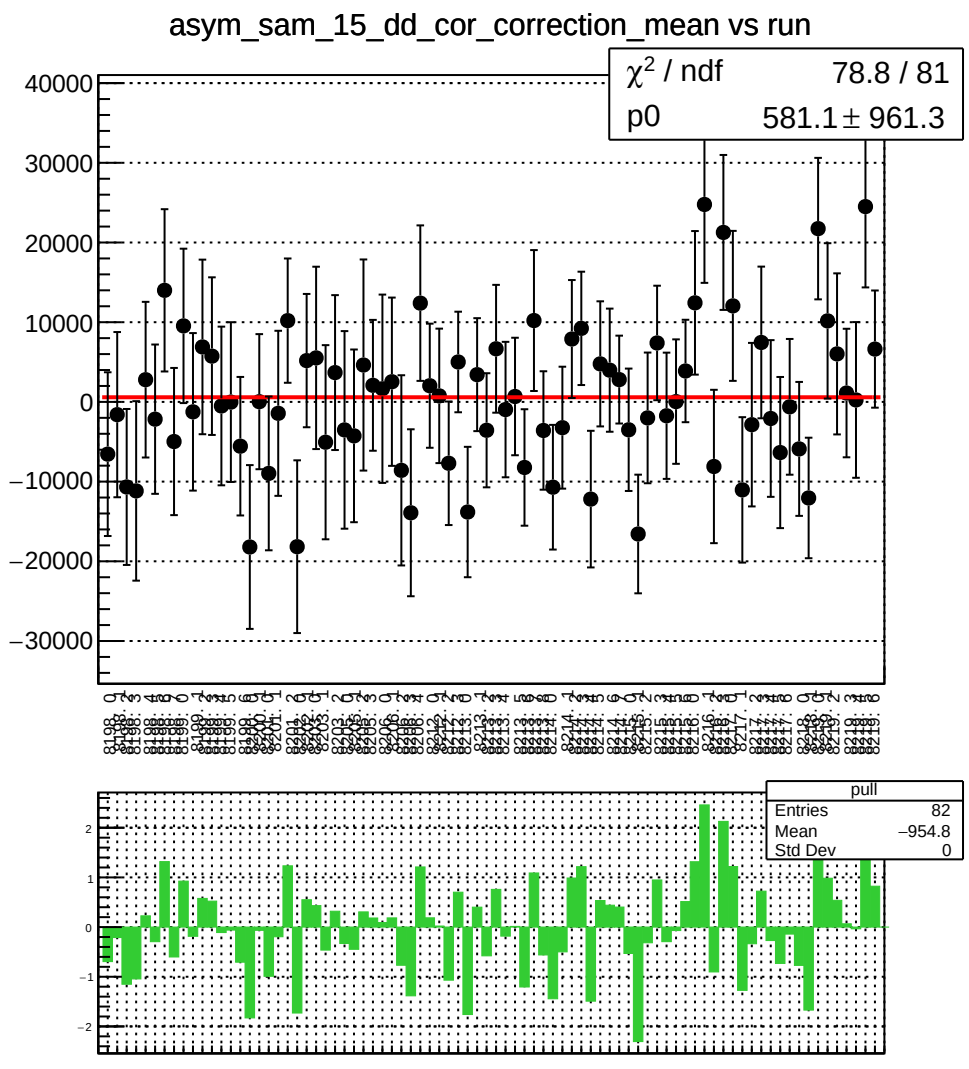

pull1D
Entries 82
Mean −0.004883
Std Dev 0.9803

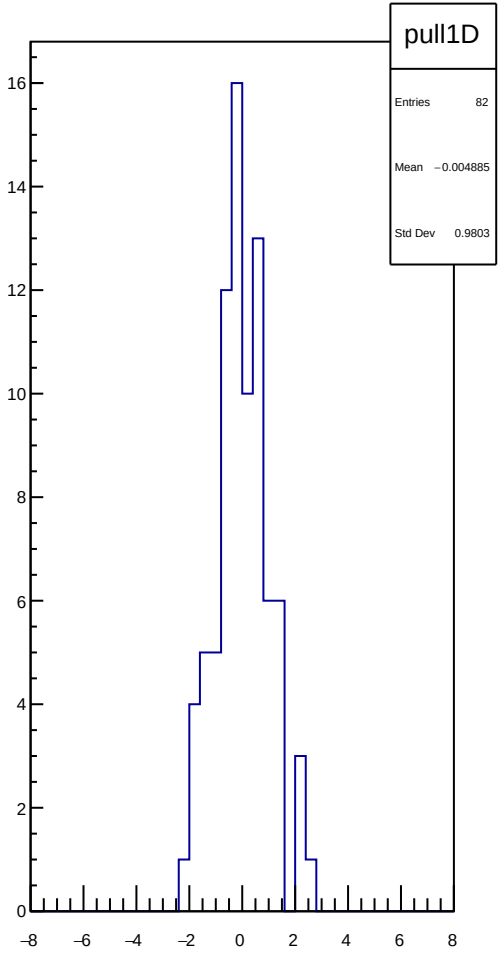

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 3.901e+04 / 81
p0 855.1 ± 0.6798
1300
1200
1100
1000
900
800
700

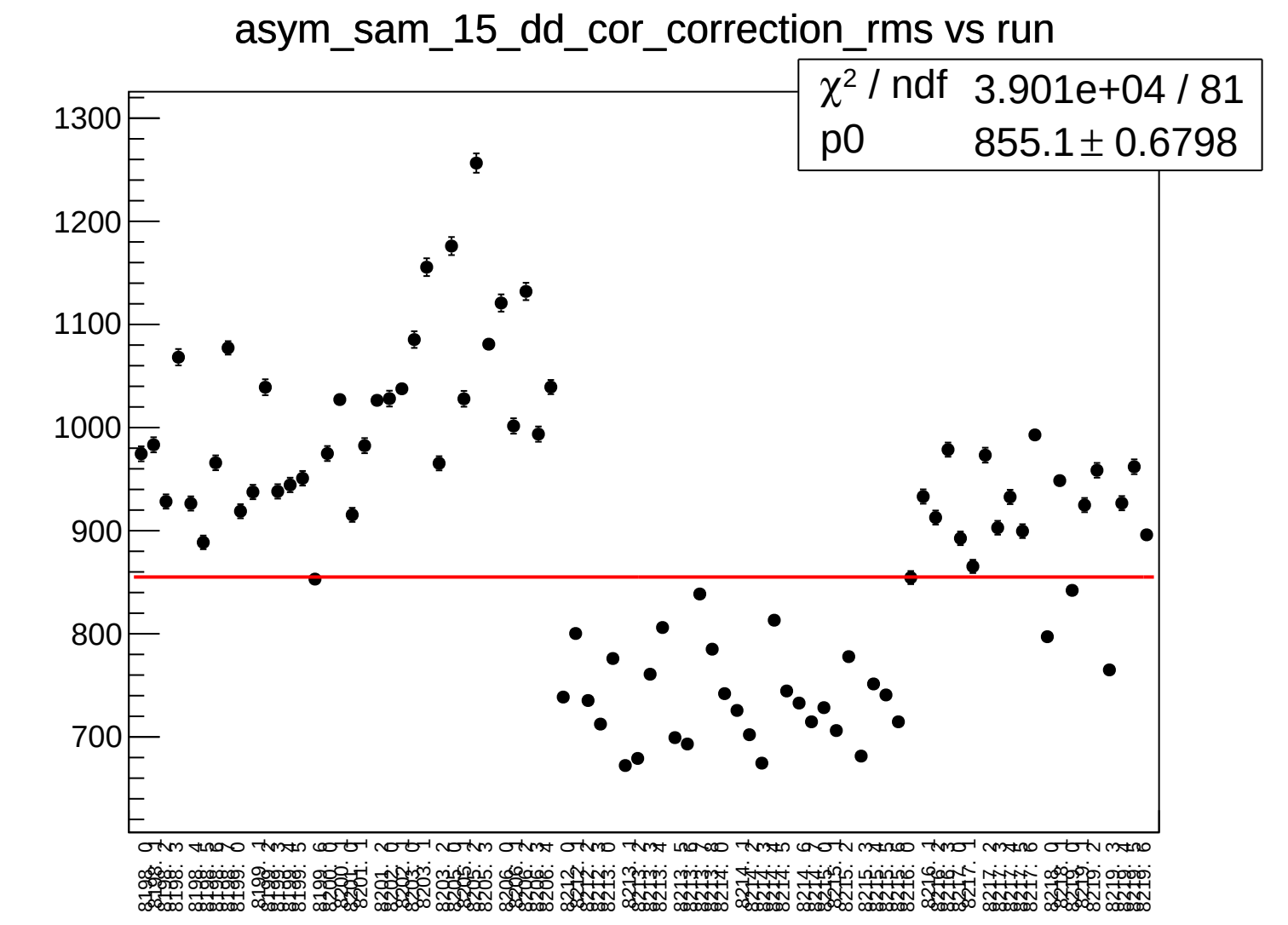

cor_asym_sam_15_dd_mean vs run
χ² / ndf 94.61 / 81
p0 −18.69 ± 104.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean −26.29
Std Dev 0
2
1
0
−1
−2

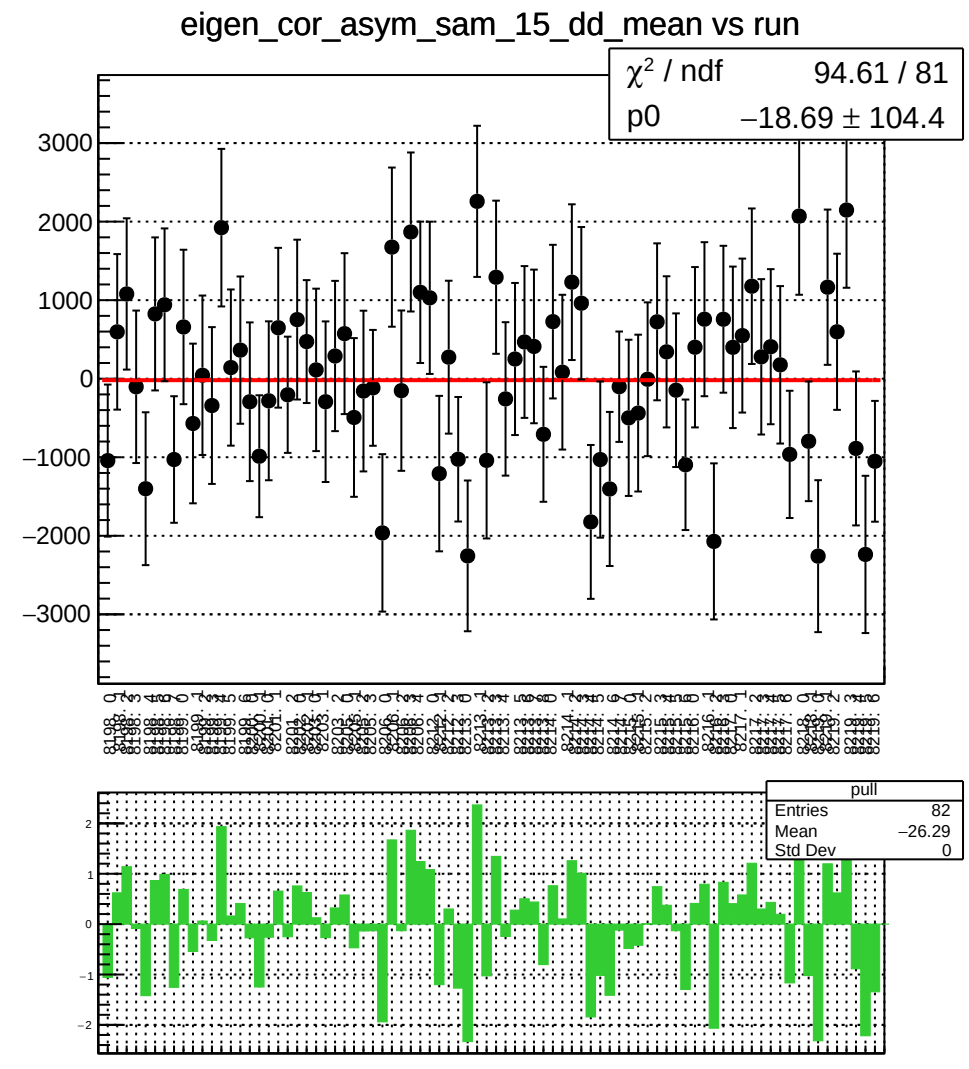

pull1D
Entries 82
Mean 0.02609
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

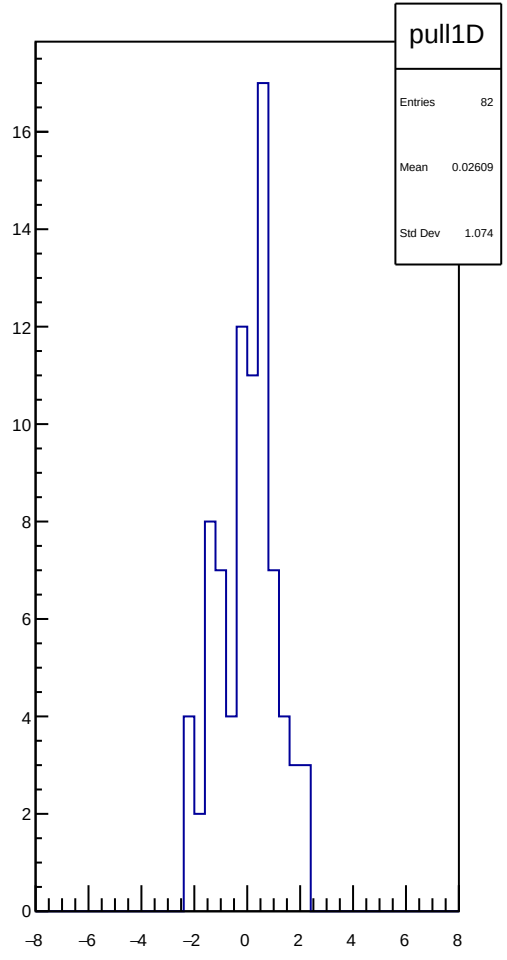

cor_asym_sam_15_dd_rms vs run
χ² / ndf 701.2 / 81
p0 94.01 ± 0.07385
98
96
94
92
90
88

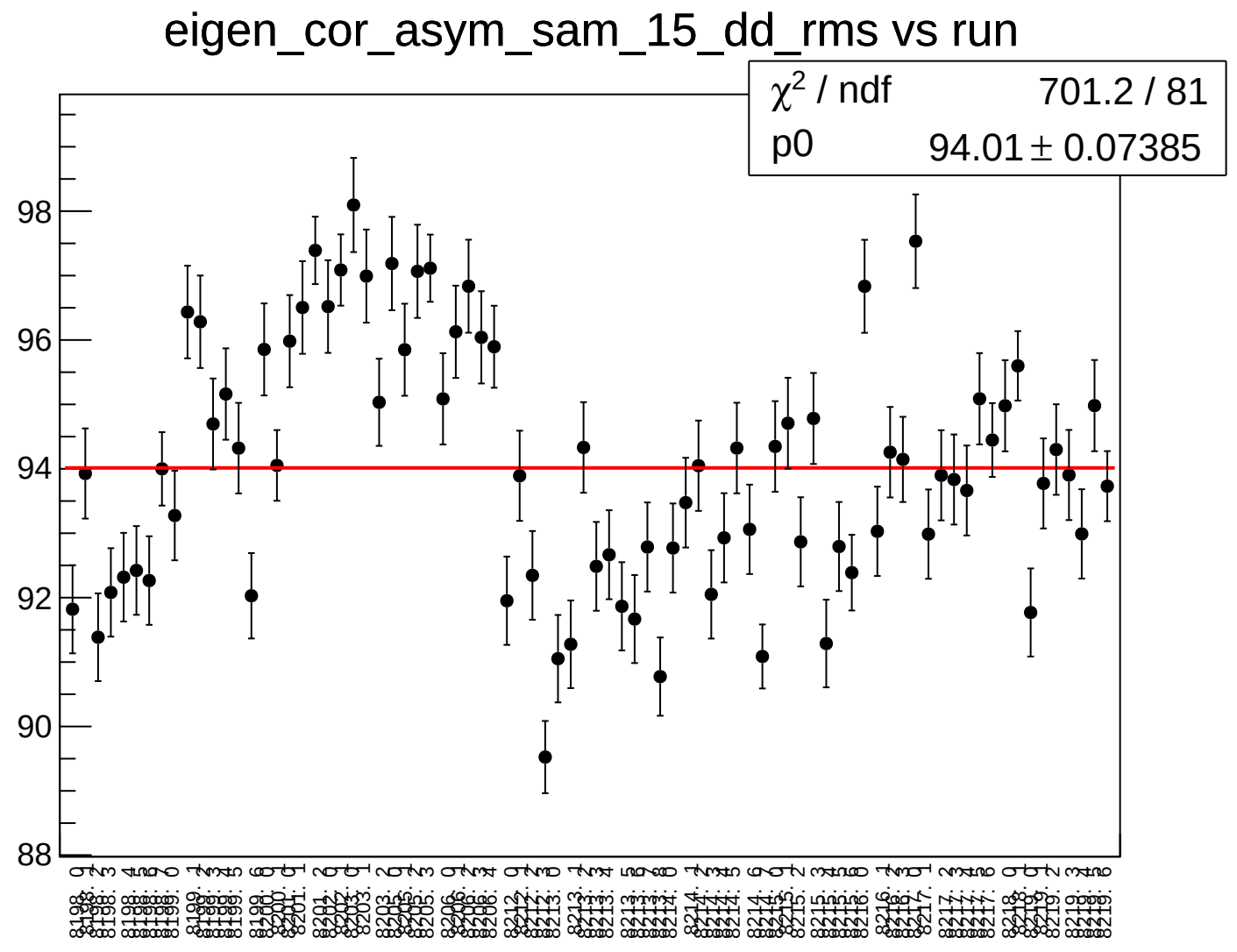

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 78.8 / 81
p0 581.1 ± 961.3
pull
Entries 82
Mean −954.8
Std Dev 0

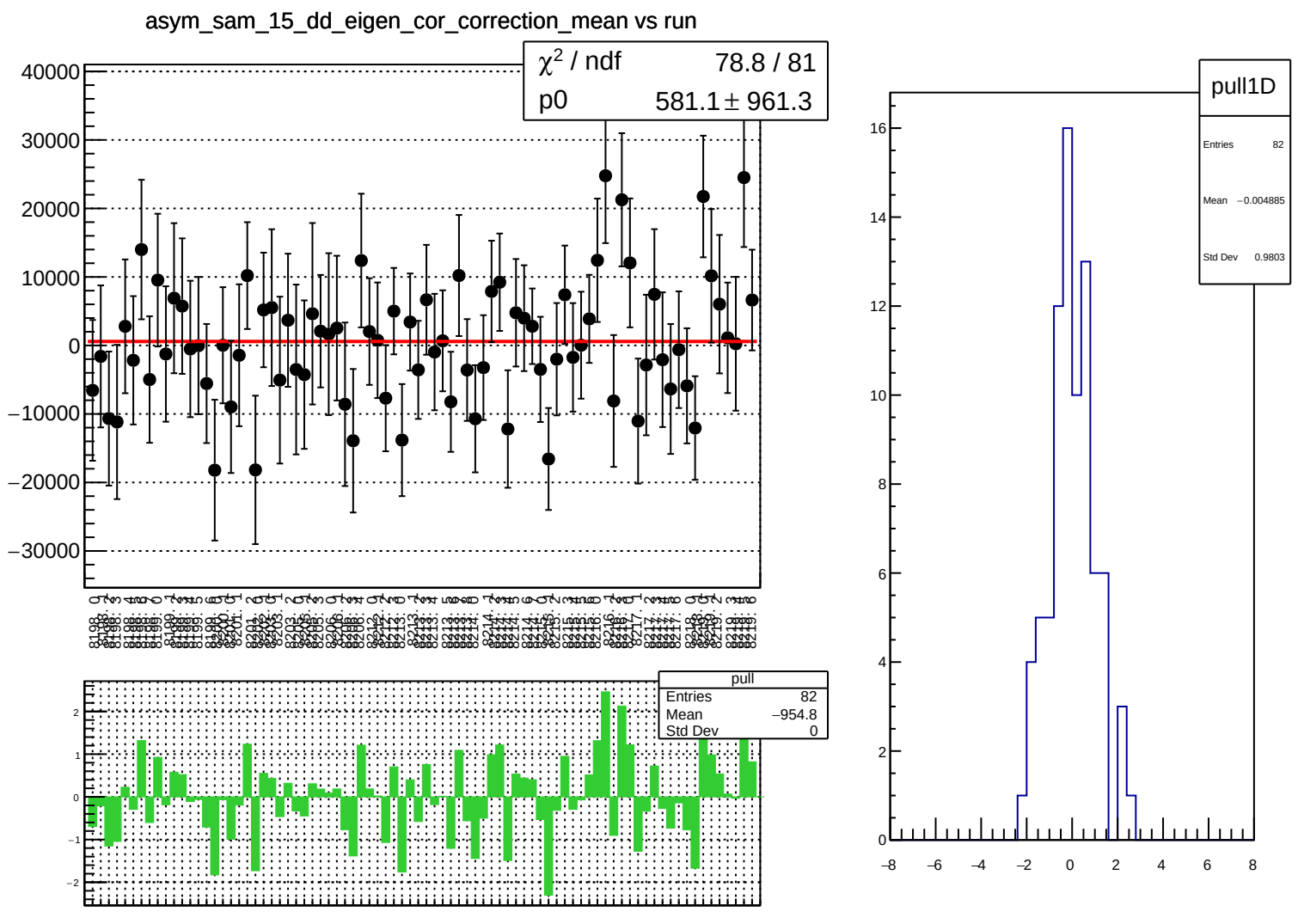

pull1D
Entries 82
Mean −0.004885
Std Dev 0.9803

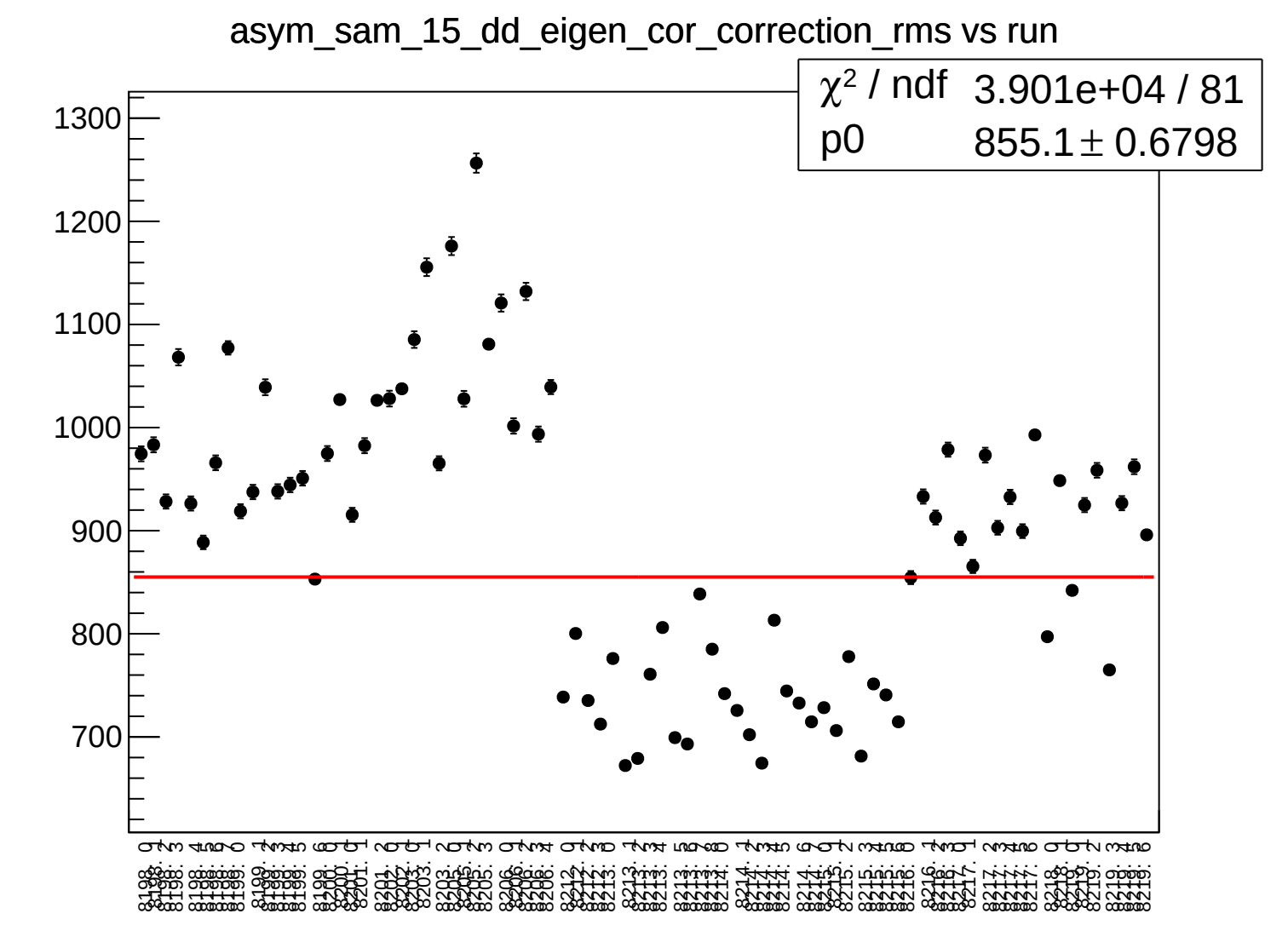

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 3.901e+04 / 81
p0 855.1 ± 0.6798
1300
1200
1100
1000
900
800
700

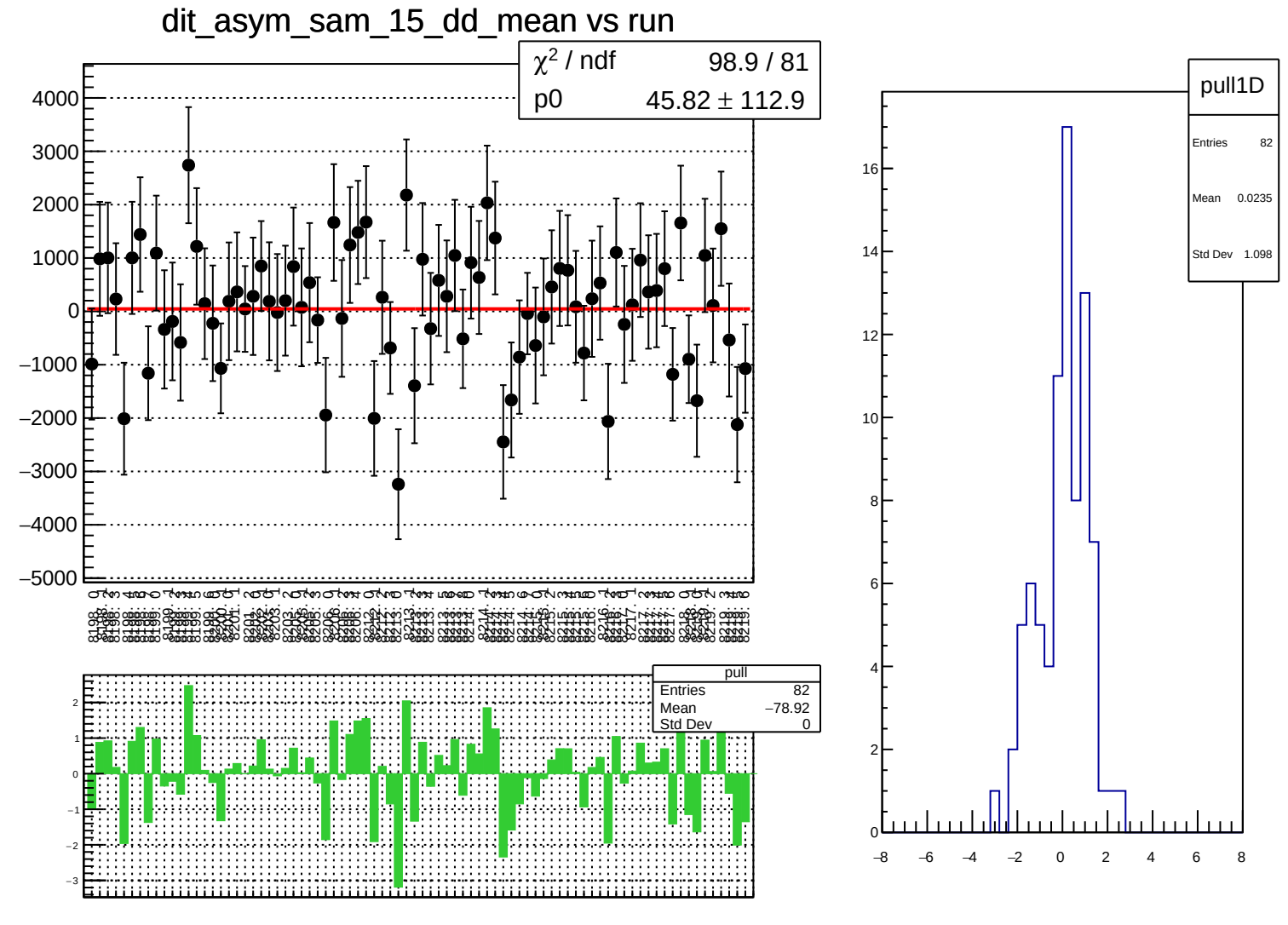

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 94.61 / 81
p0 −18.69 ± 104.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean −26.29
Std Dev 0
2
1
0
−1
−2

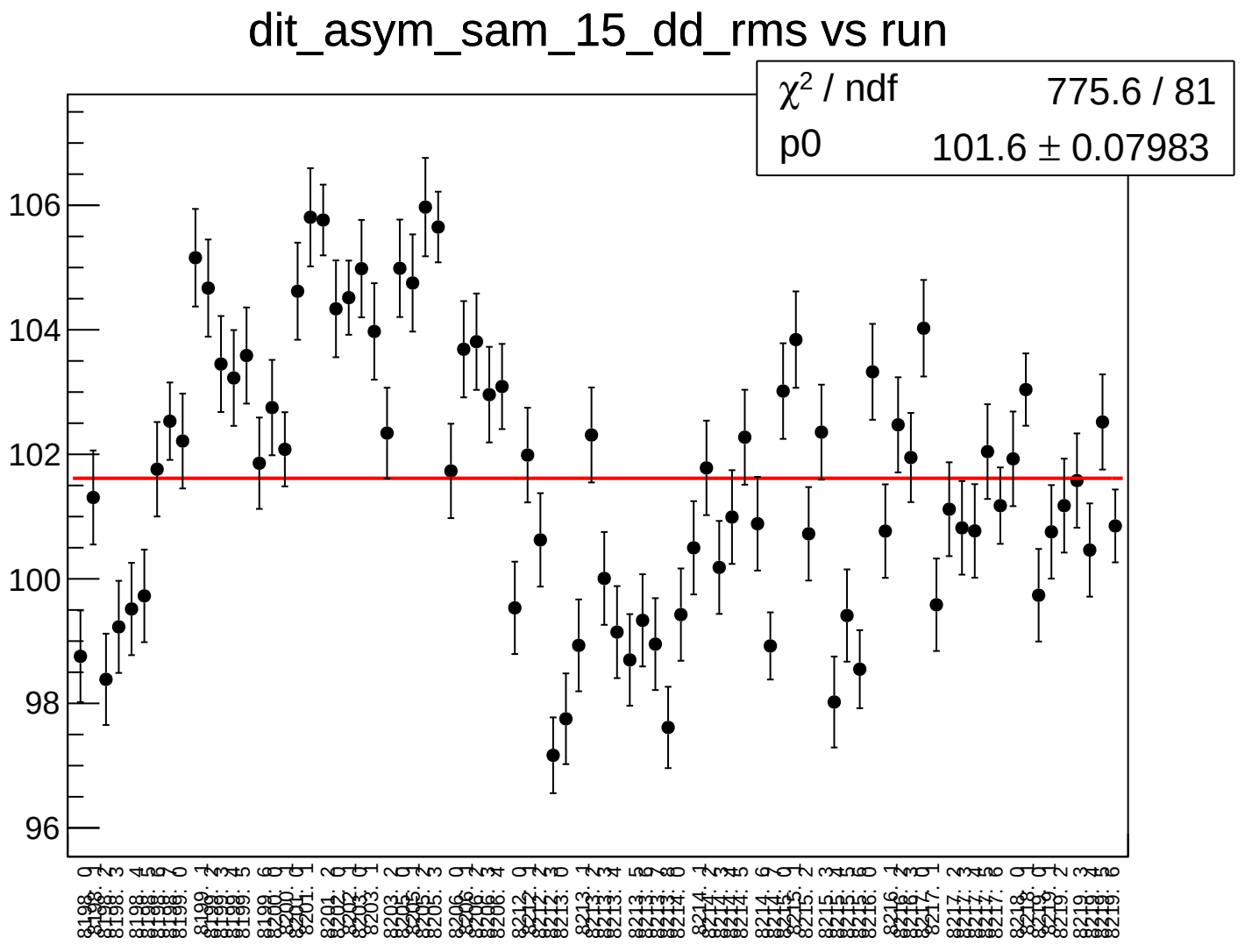

pull1D
Entries 82
Mean 0.02609
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

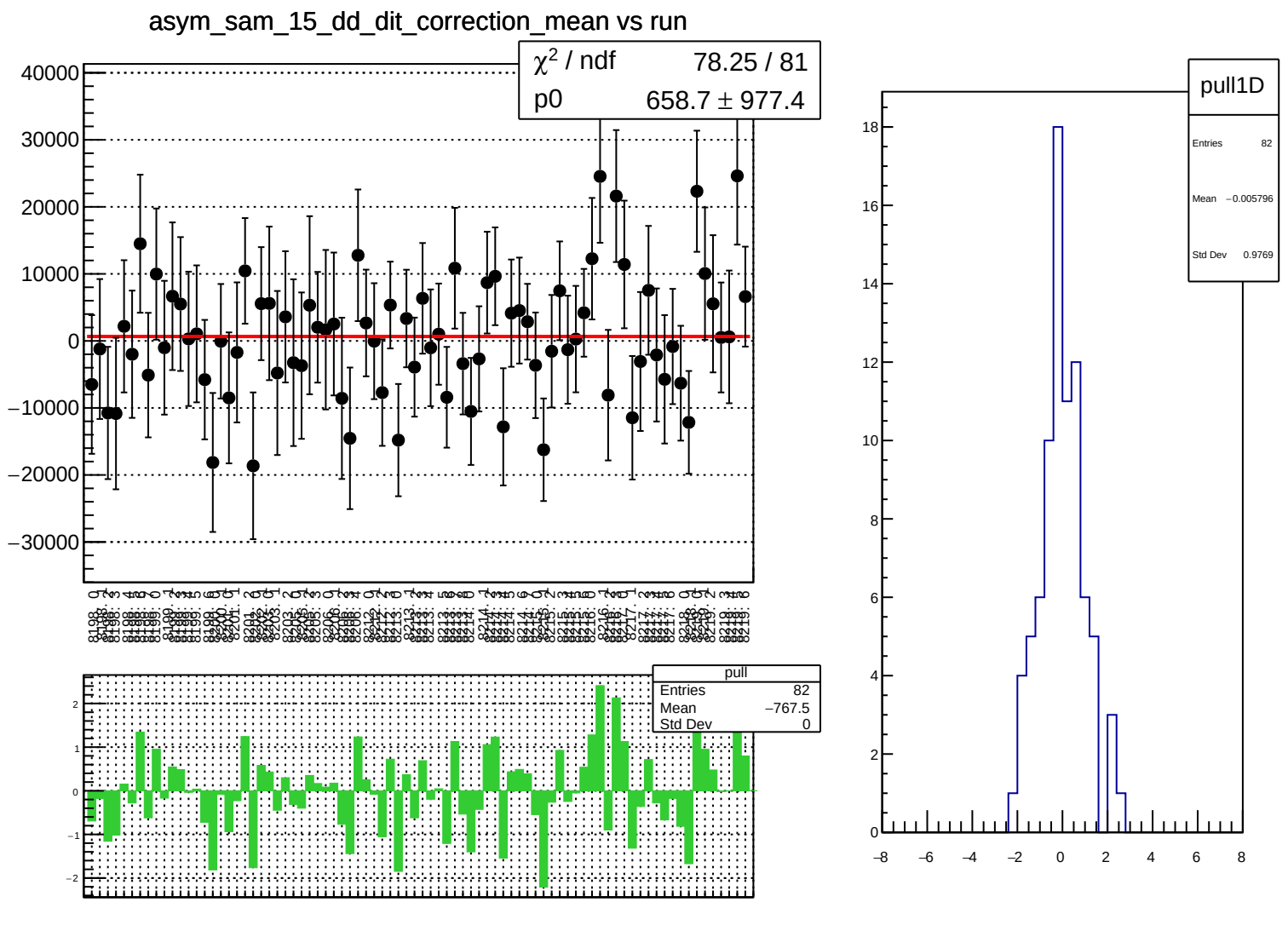

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 701.2 / 81
p0 94.01 ± 0.07385
98
96
94
92
90
88

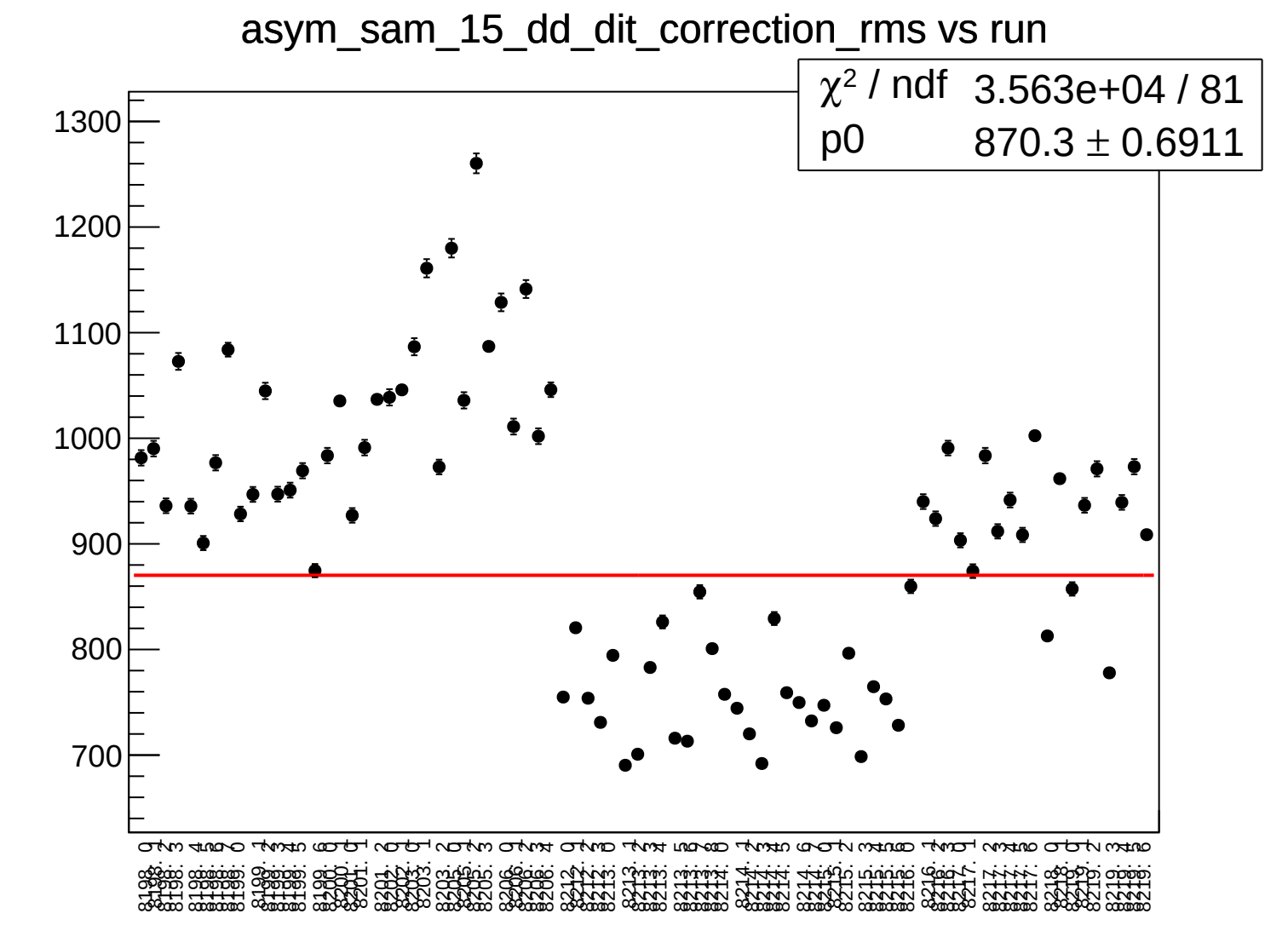

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.8 / 81
p0 581.1 ± 961.3
pull
Entries 82
Mean −954.8
Std Dev 0
pull1D
Entries 82
Mean −0.004885
Std Dev 0.9803

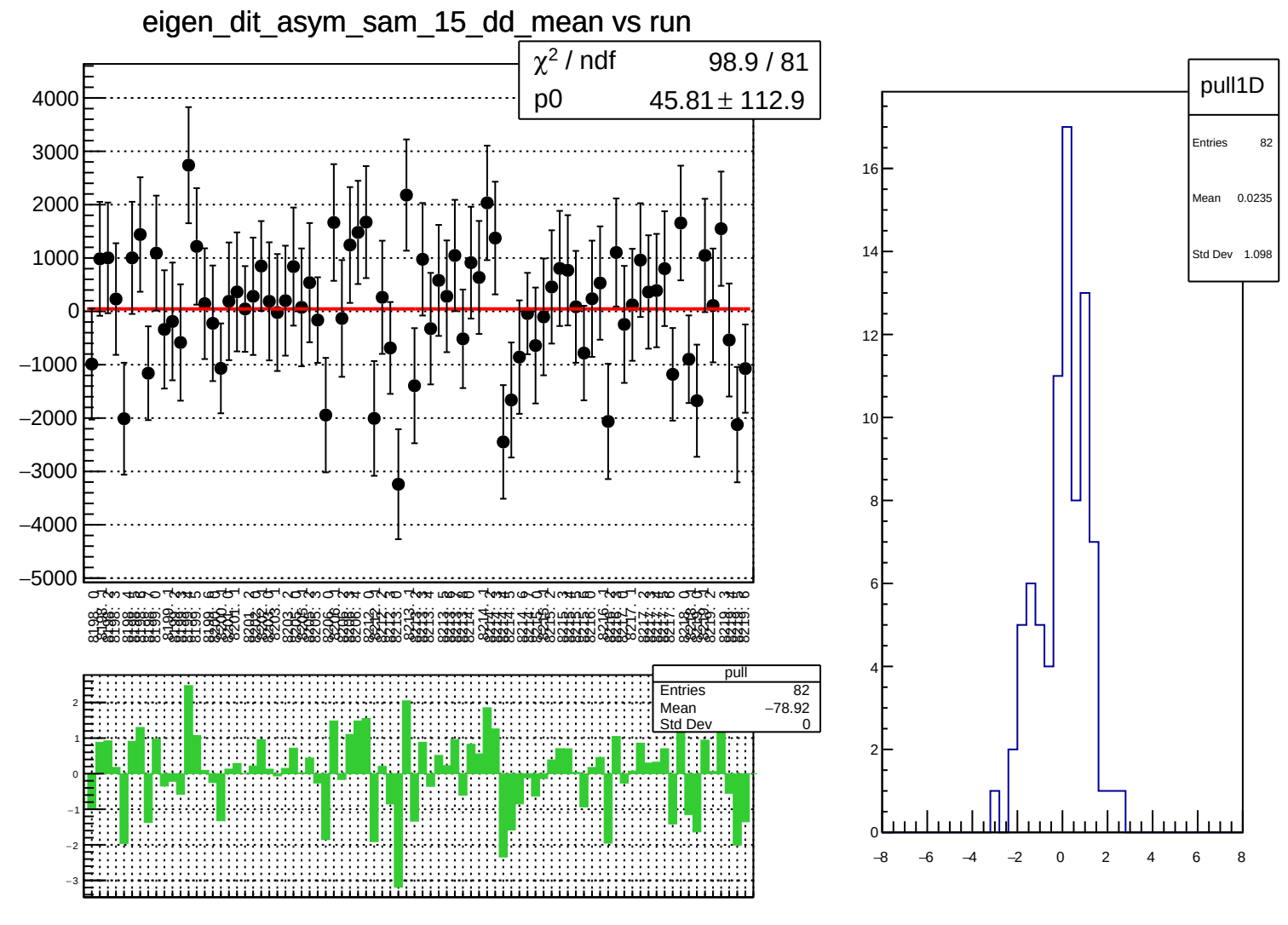

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.901e+04 / 81
p0 855.1 ± 0.6798
1300
1200
1100
1000
900
800
700

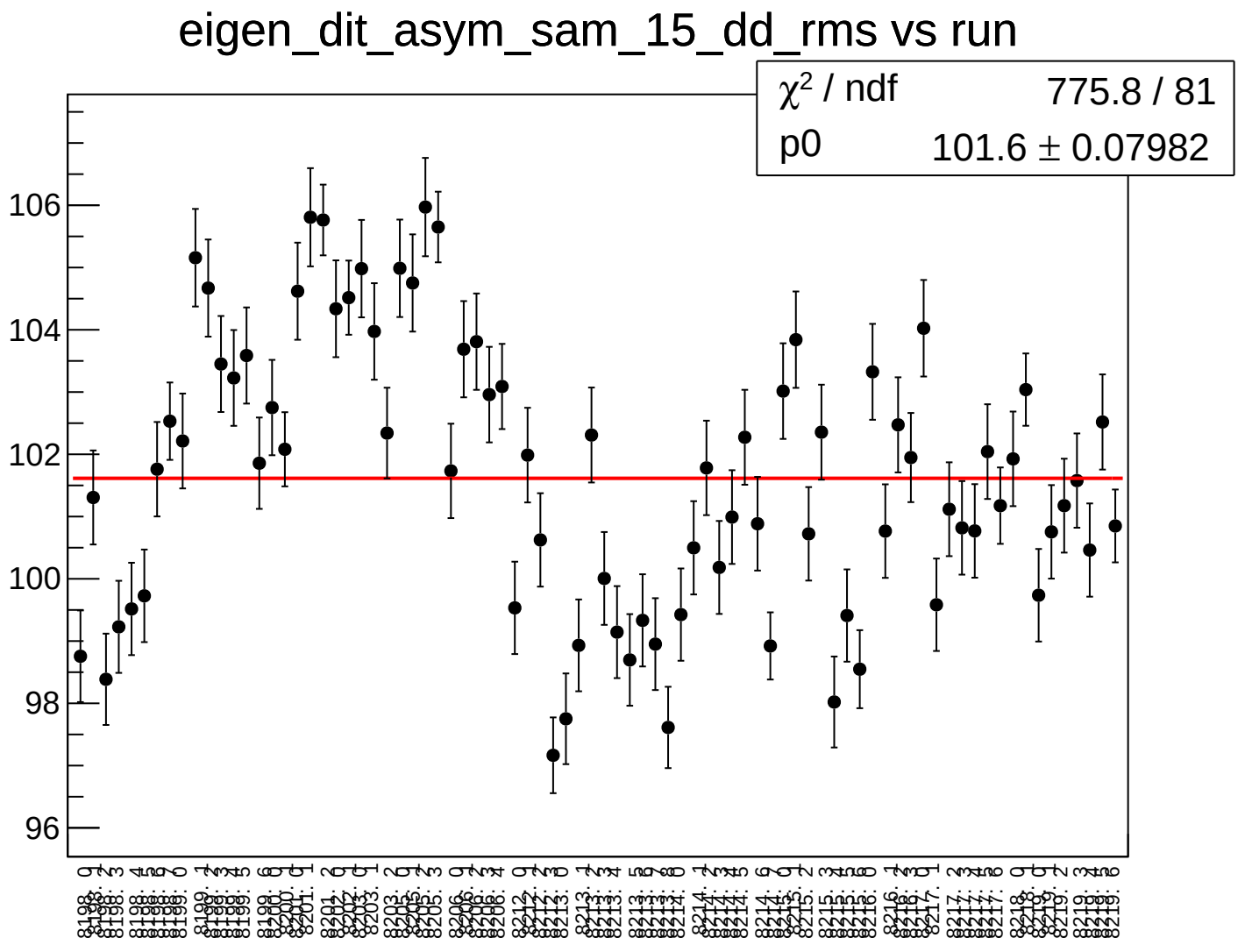

dit_asym_sam_15_dd_mean vs run
χ² / ndf 98.9 / 81
p0 45.82 ± 112.9
pull
Entries 82
Mean −78.92
Std Dev 0
pull1D
Entries 82
Mean 0.0235
Std Dev 1.098

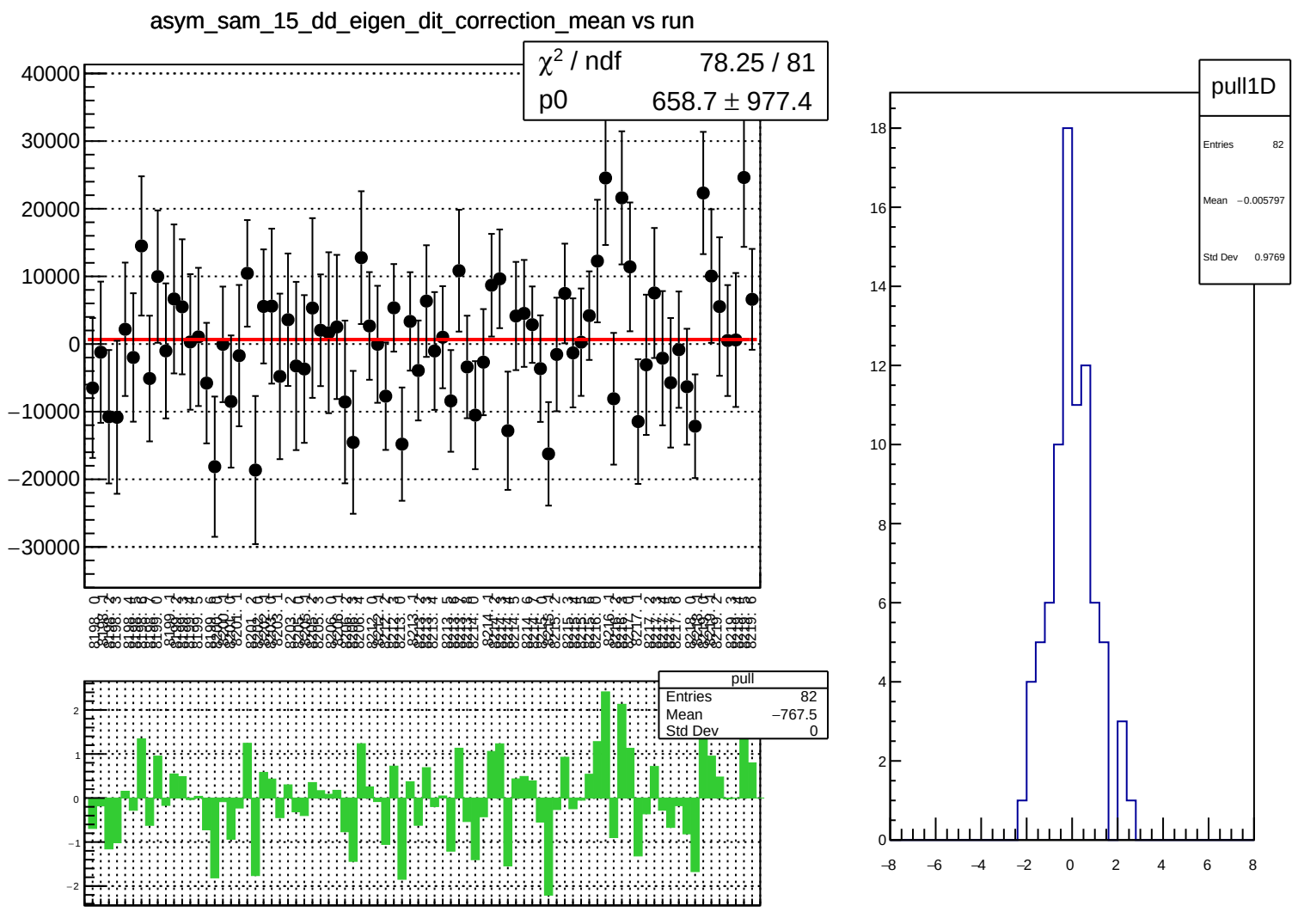

dit_asym_sam_15_dd_rms vs run
χ² / ndf 775.6 / 81
p0 101.6 ± 0.07983
106
104
102
100
98
96

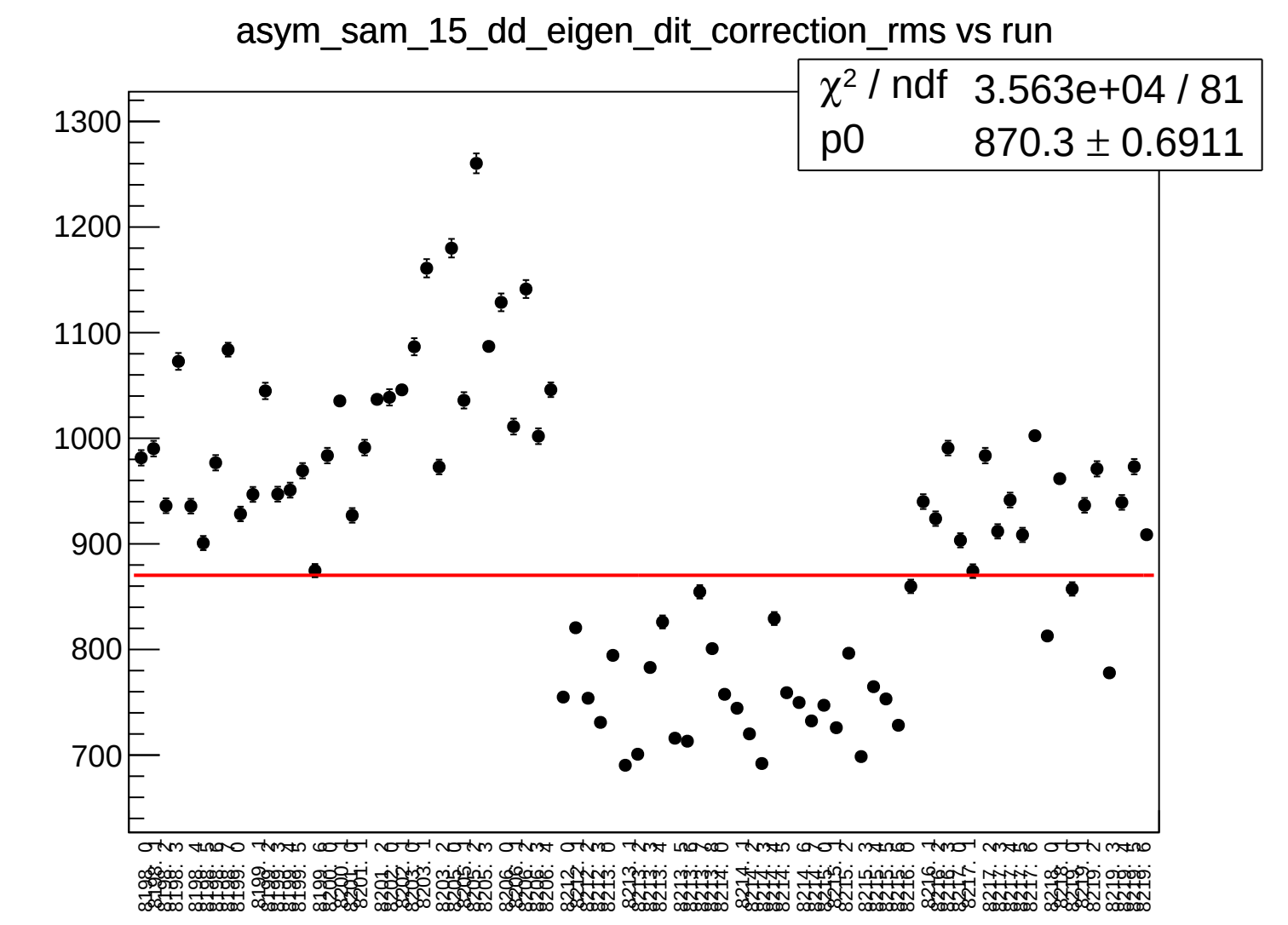

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 78.25 / 81
p0 658.7 ± 977.4
pull
Entries 82
Mean −767.5
Std Dev 0
pull1D
Entries 82
Mean −0.005796
Std Dev 0.9769

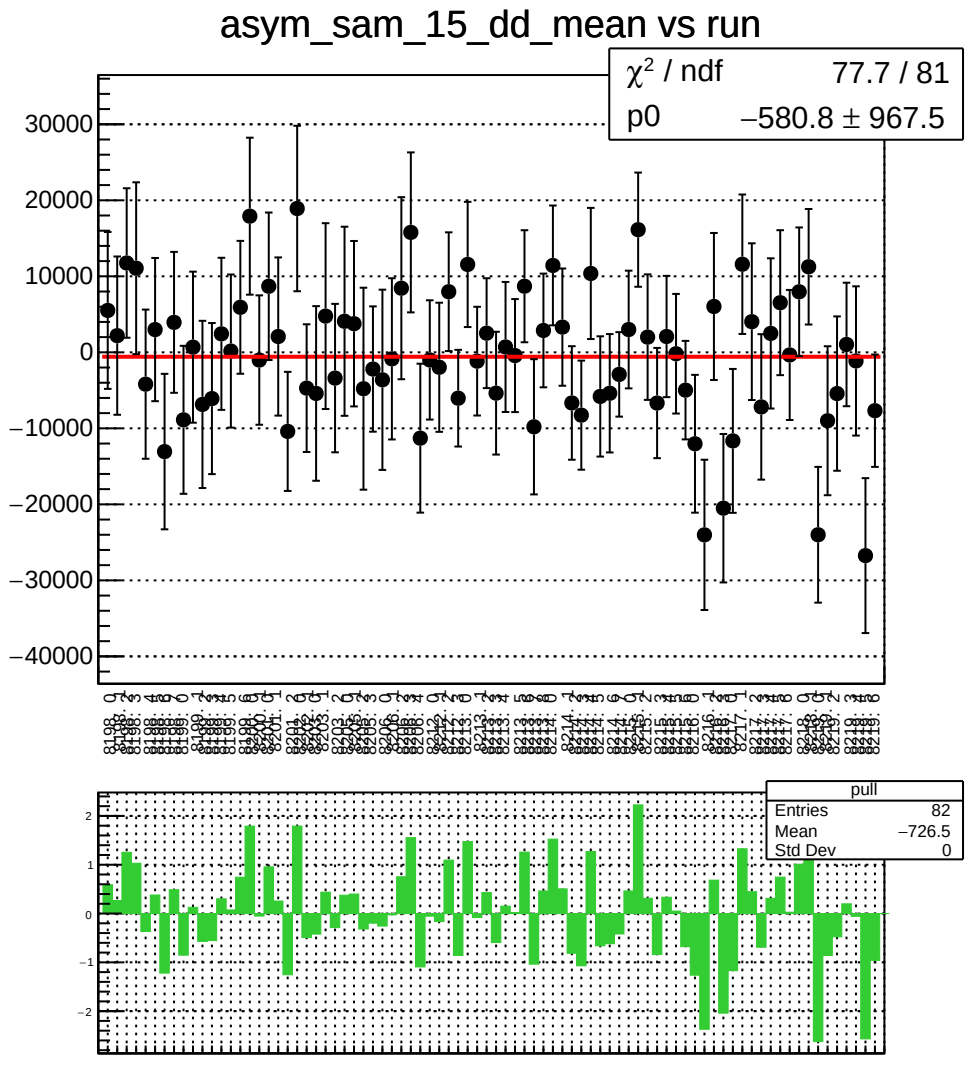

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 3.563e+04 / 81
p0 870.3 ± 0.6911
1300
1200
1100
1000
900
800
700

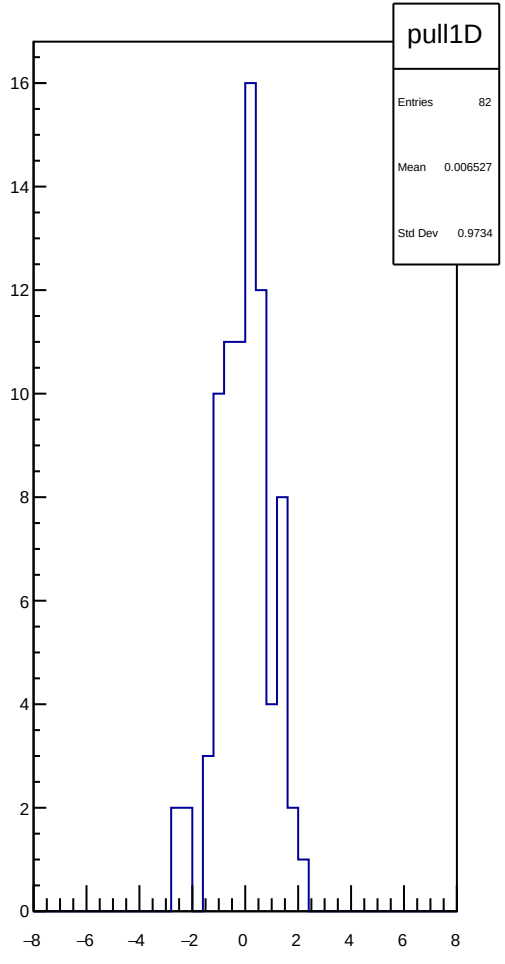

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 98.9 / 81
p0 45.81 ± 112.9
pull
Entries 82
Mean −78.92
Std Dev 0
pull1D
Entries 82
Mean 0.0235
Std Dev 1.098

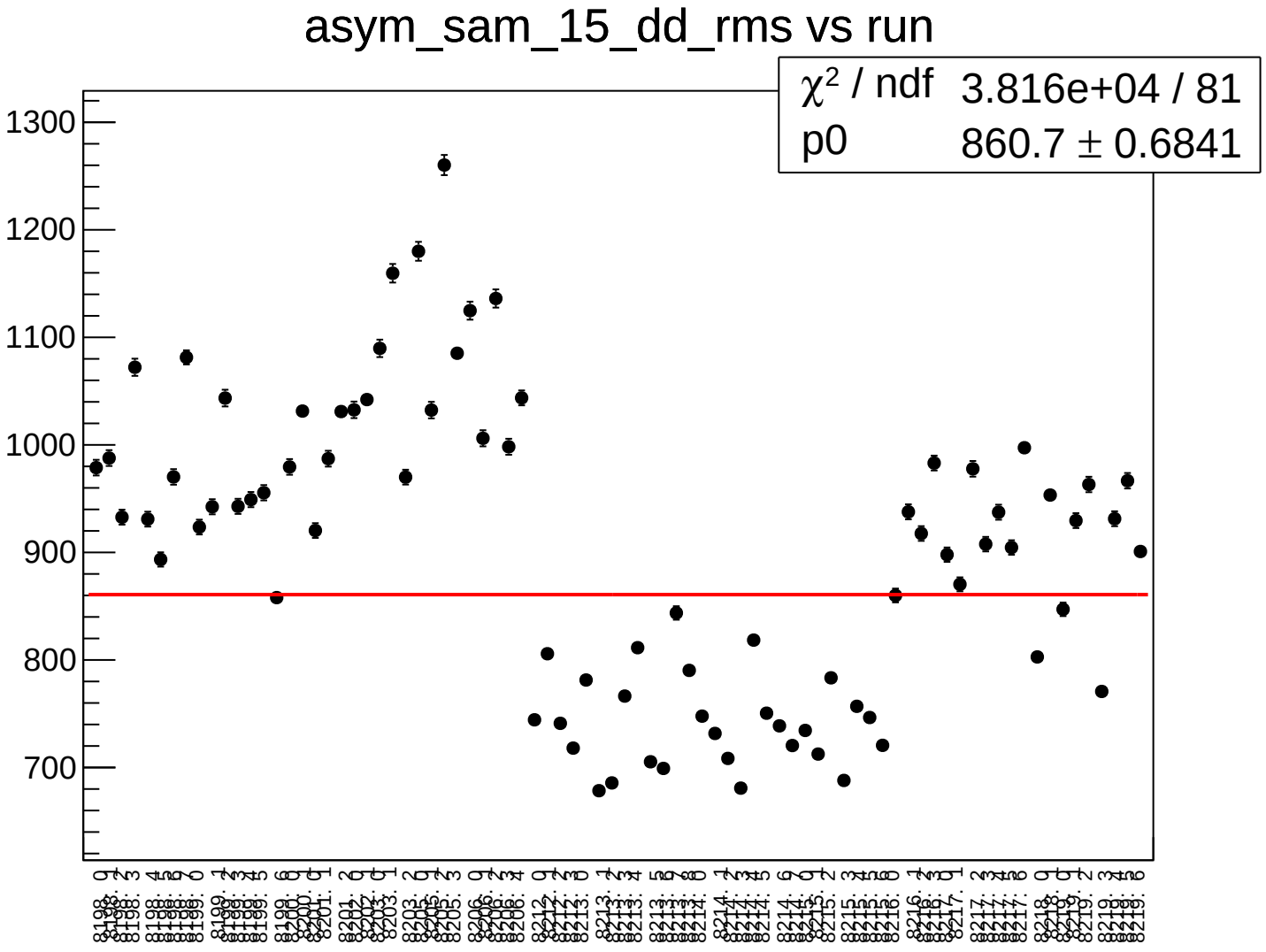

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 775.8 / 81
p0 101.6 ± 0.07982
106
104
102
100
98
96

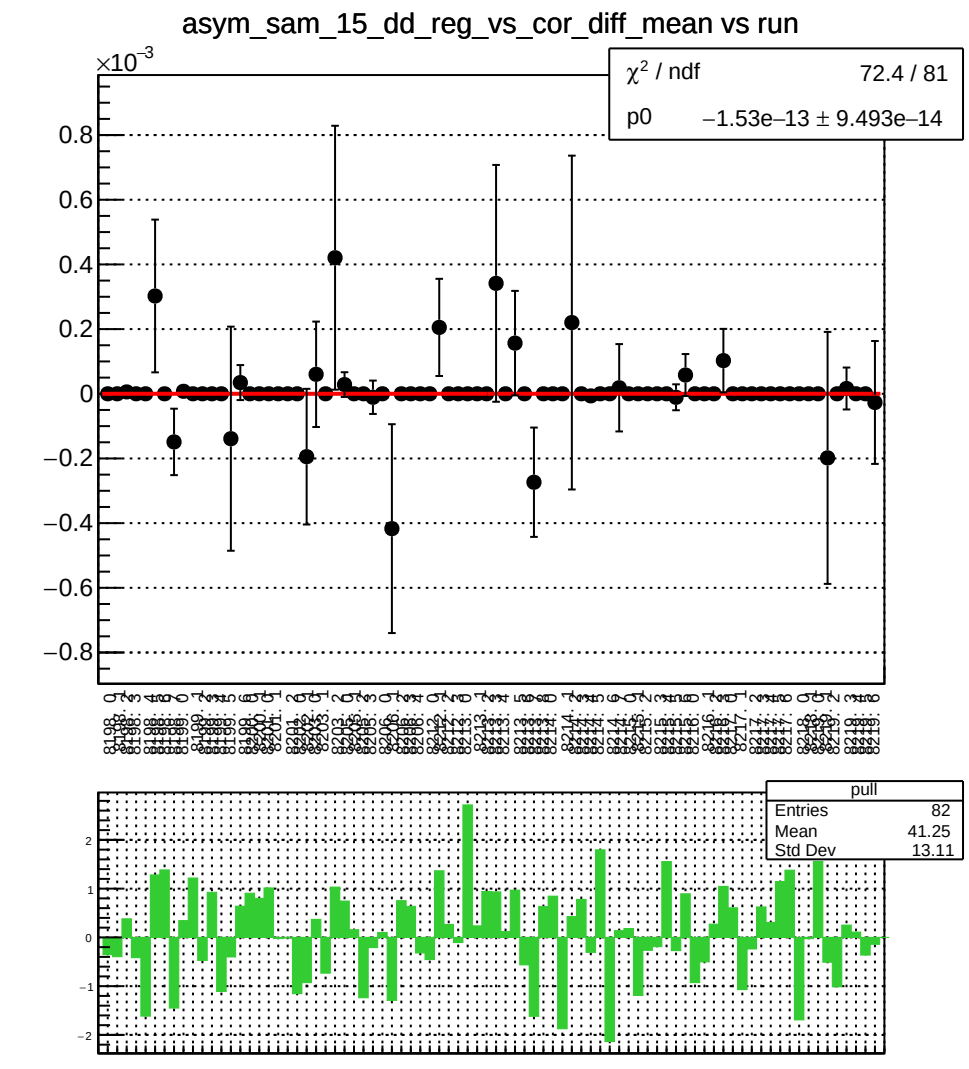

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.25 / 81
p0 658.7 ± 977.4
pull
Entries 82
Mean −767.5
Std Dev 0
pull1D
Entries 82
Mean −0.005797
Std Dev 0.9769

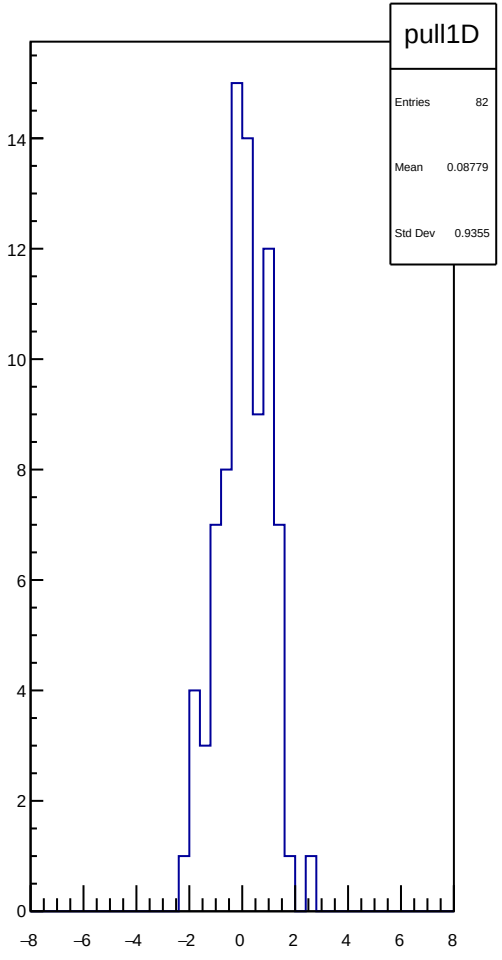

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.563e+04 / 81
p0 870.3 ± 0.6911
1300
1200
1100
1000
900
800
700

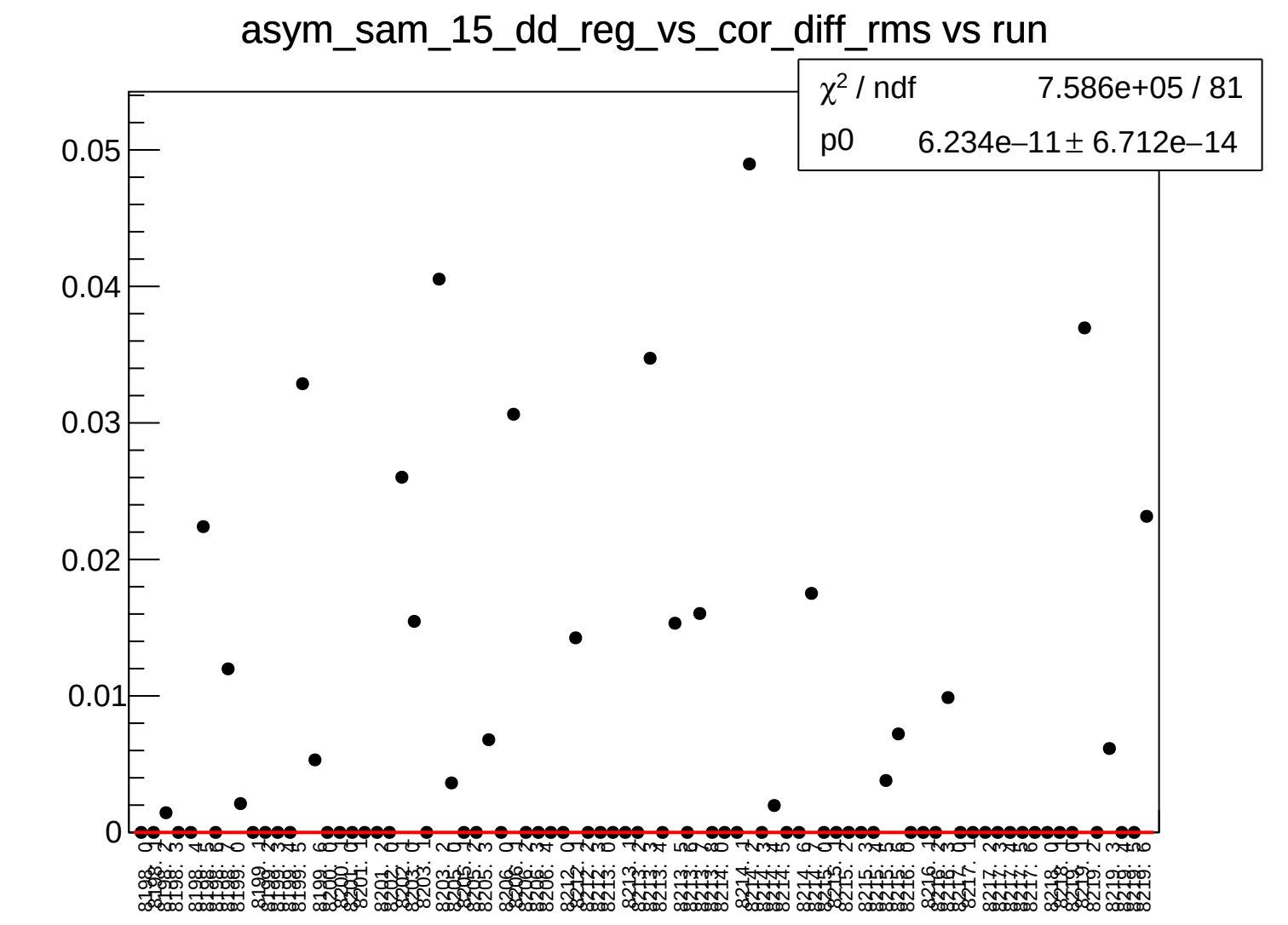

asym_sam_15_dd_mean vs run
χ² / ndf 77.7 / 81
p0 −580.8 ± 967.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −726.5
Std Dev 0
2
1
0
−1
−2

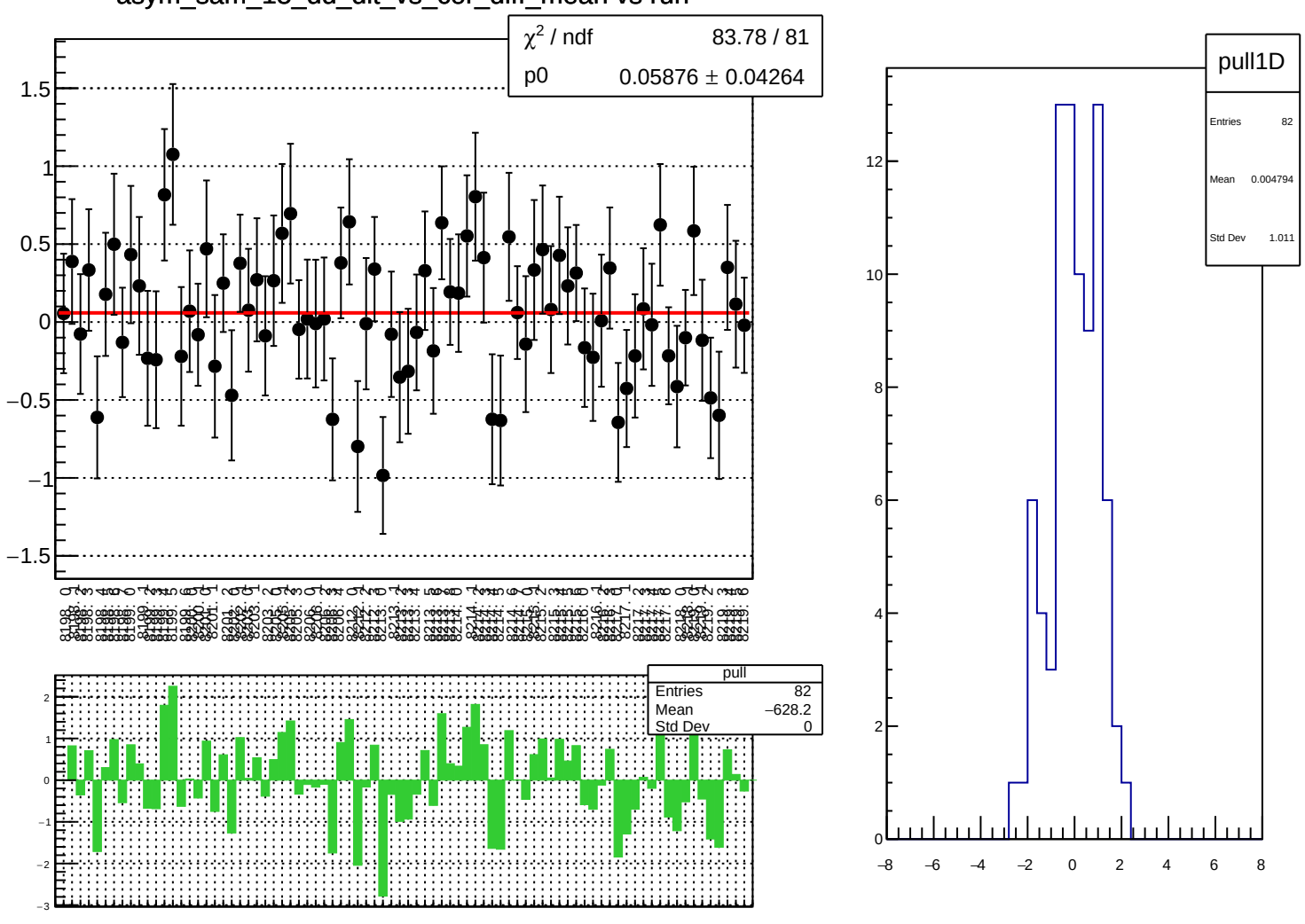

pull1D
Entries 82
Mean 0.006527
Std Dev 0.9734
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

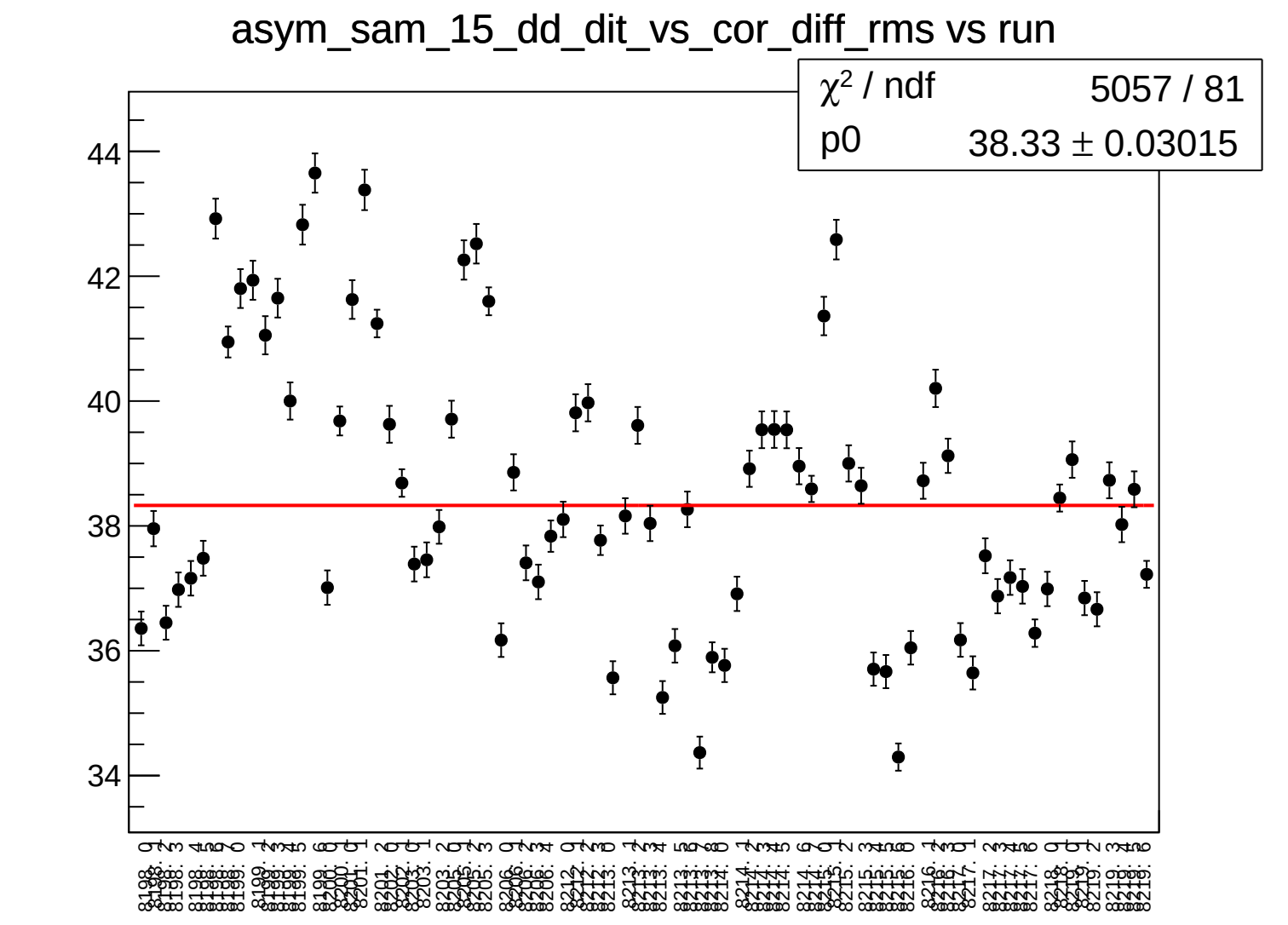

asym_sam_15_dd_rms vs run
χ² / ndf 3.816e+04 / 81
p0 860.7 ± 0.6841
1300
1200
1100
1000
900
800
700

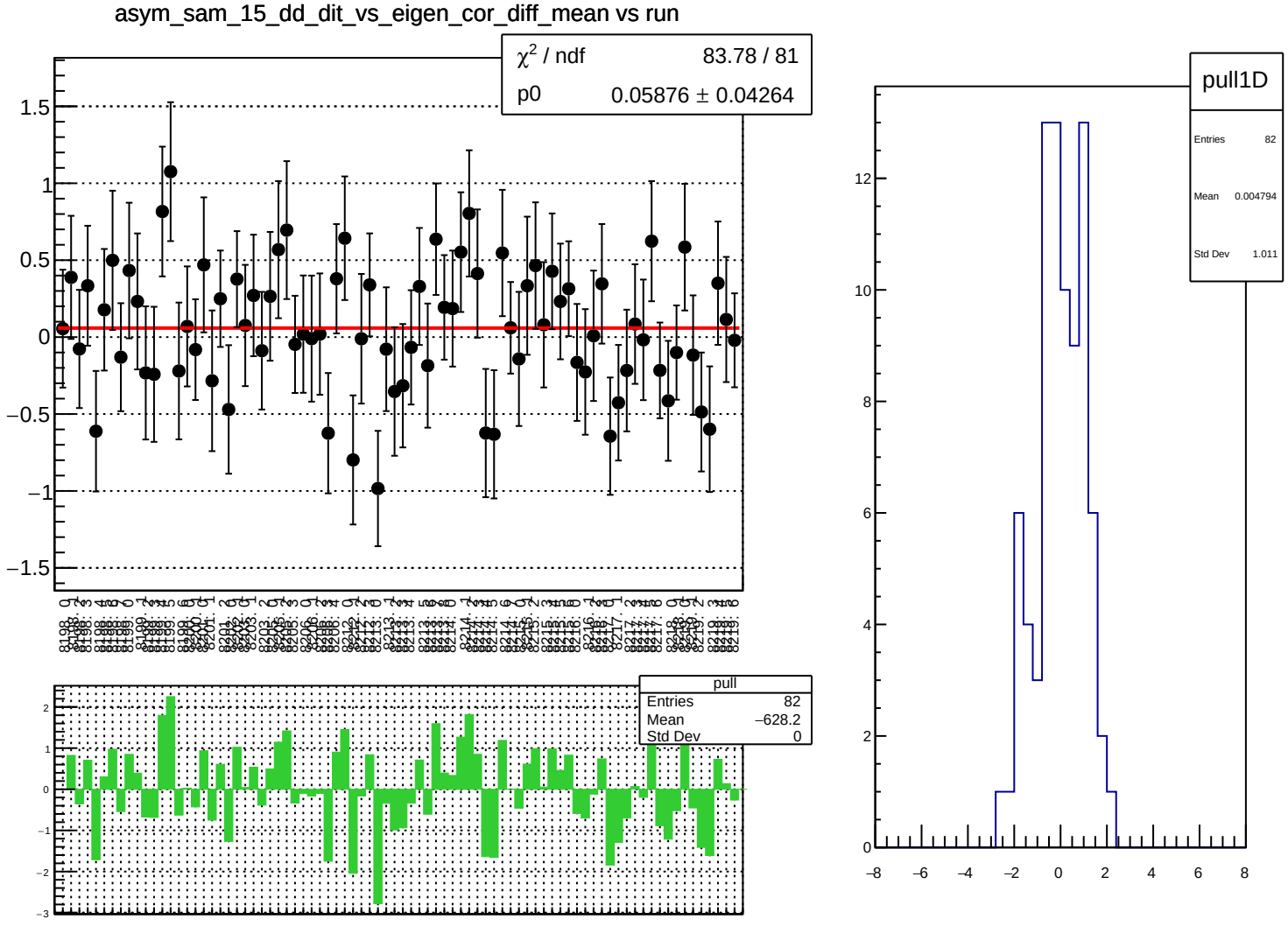

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.4 / 81
p0 −1.53e−13 ± 9.493e−14
×10⁻³
pull
Entries 82
Mean 41.25
Std Dev 13.11

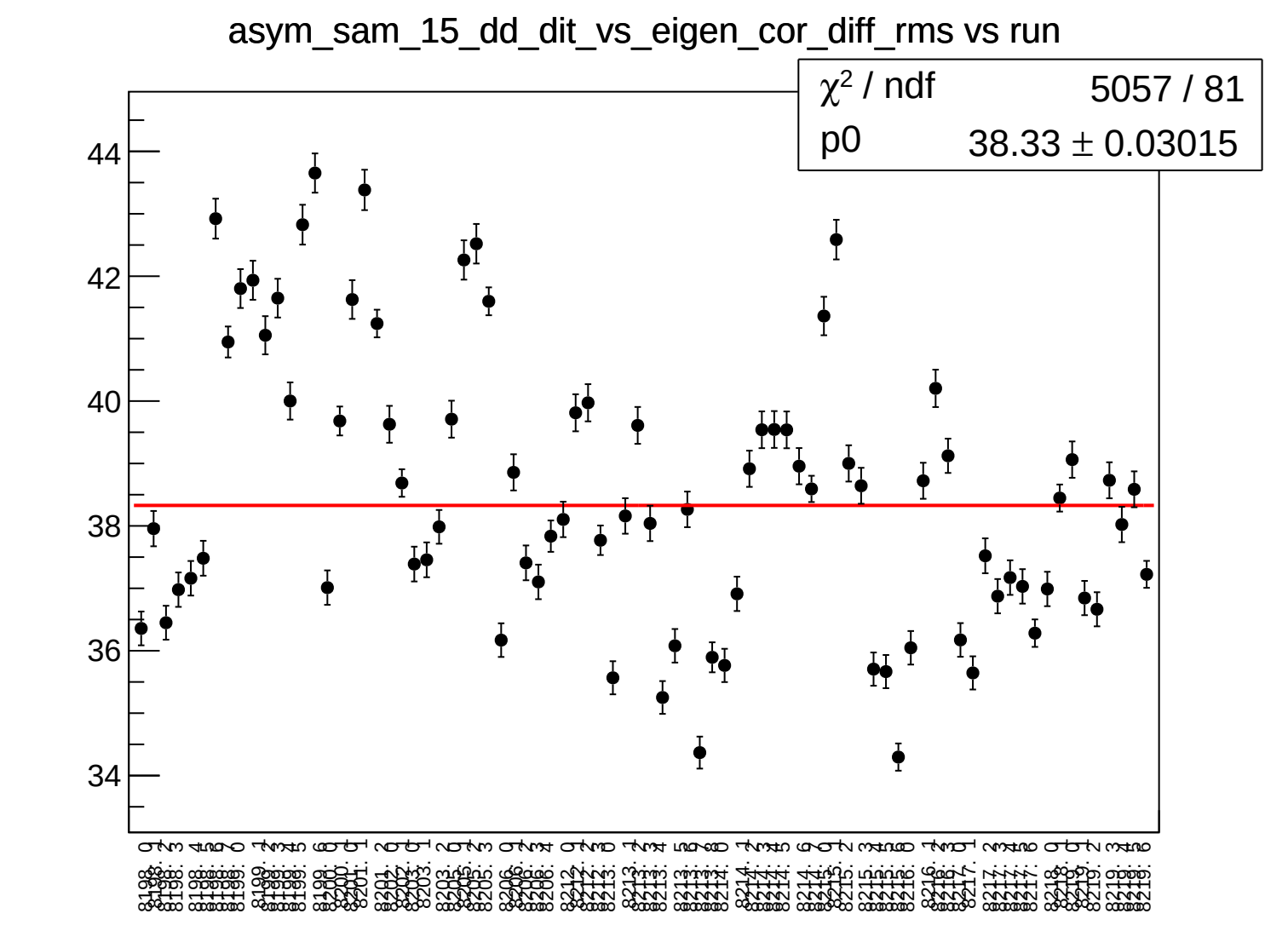

pull1D
Entries 82
Mean 0.08779
Std Dev 0.9355

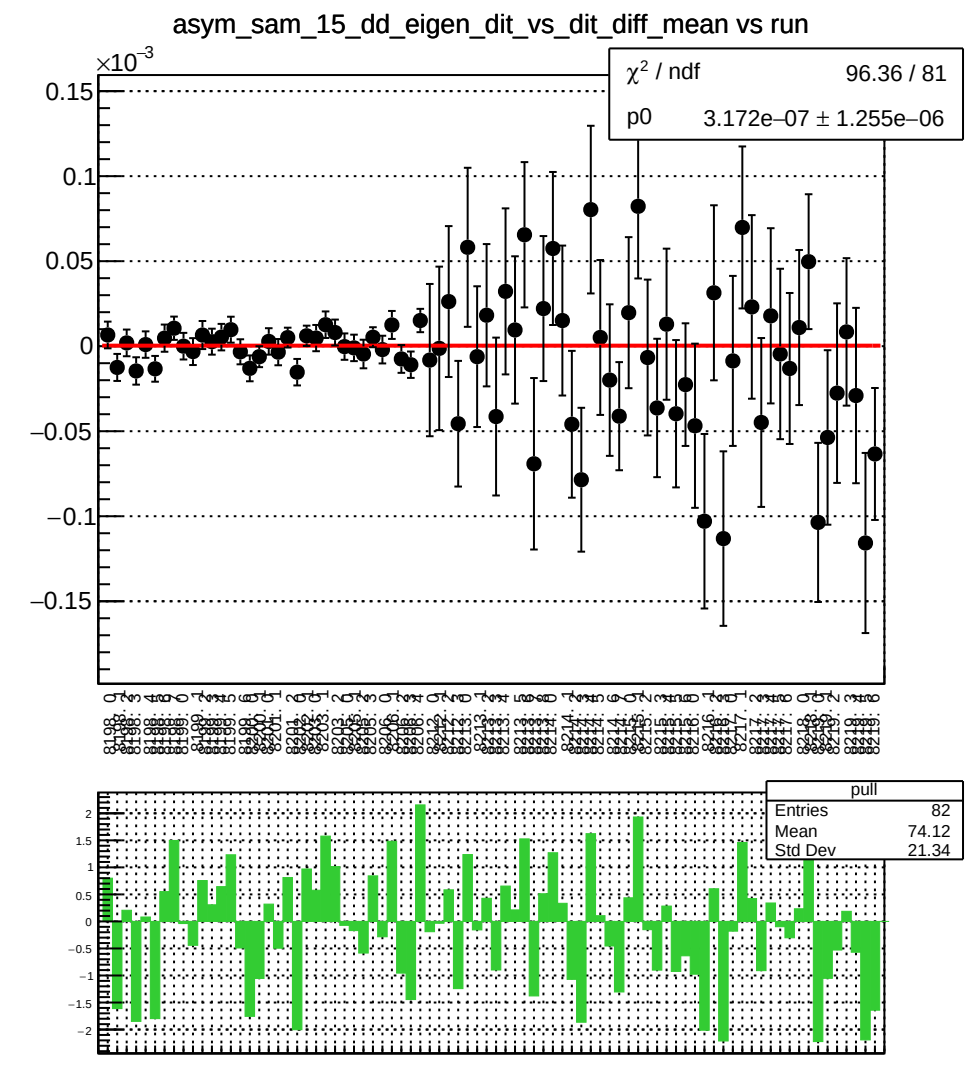

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.586e+05 / 81
p0 6.234e−11 ± 6.712e−14
0.05
0.04
0.03
0.02
0.01
0

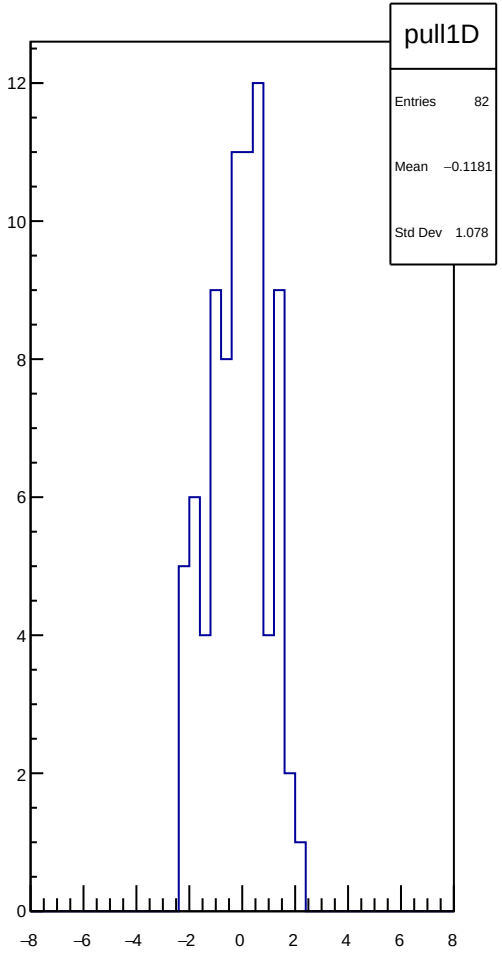

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.78 / 81
p0 0.05876 ± 0.04264
pull
Entries 82
Mean −628.2
Std Dev 0
pull1D
Entries 82
Mean 0.004794
Std Dev 1.011

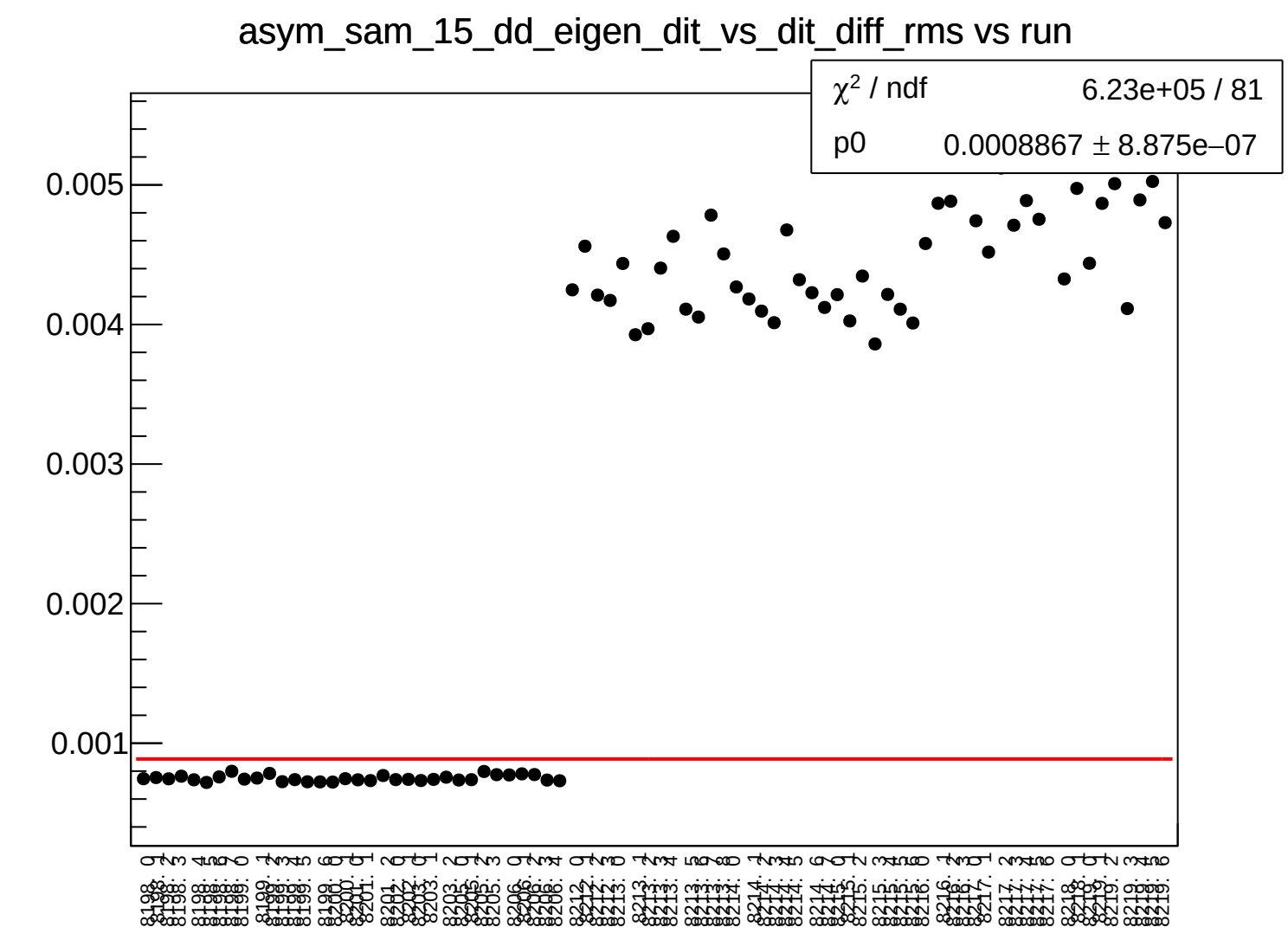

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5057 / 81
p0 38.33 ± 0.03015
44
42
40
38
36
34

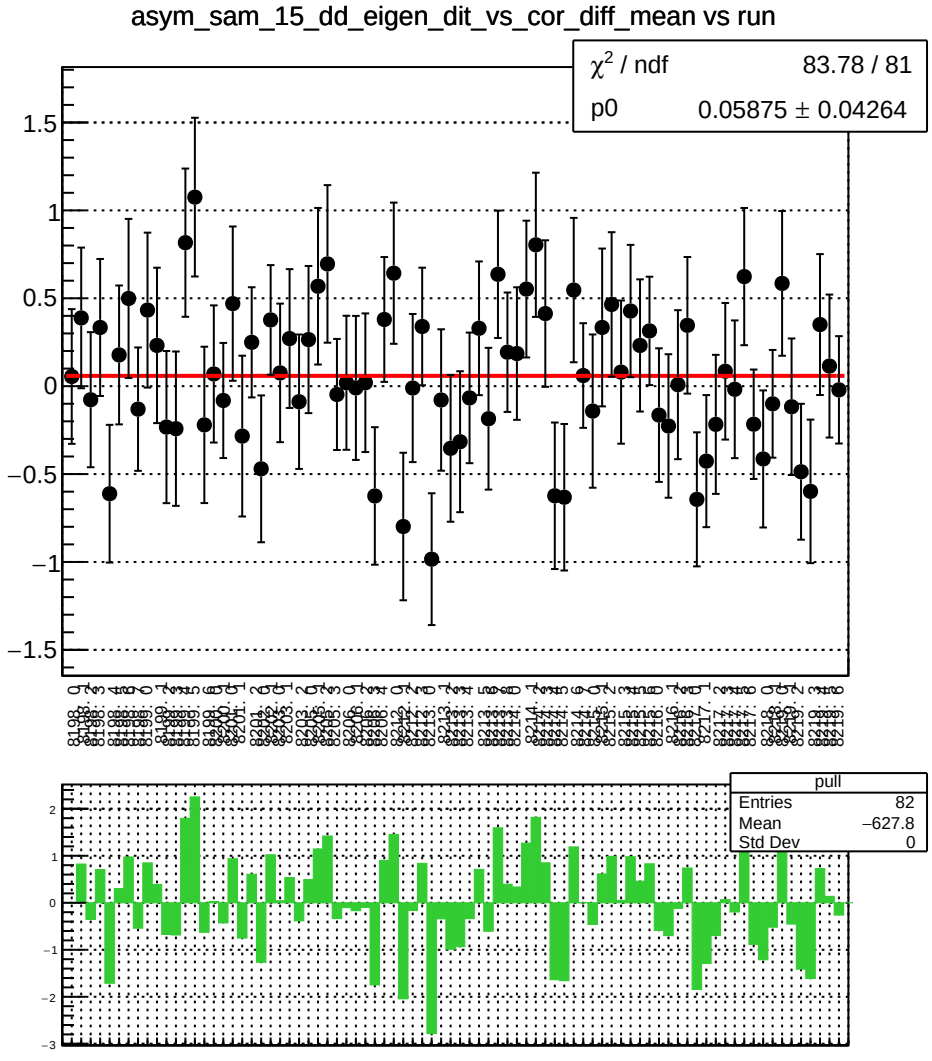

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.78 / 81
p0 0.05876 ± 0.04264
pull
Entries 82
Mean −628.2
Std Dev 0
pull1D
Entries 82
Mean 0.004794
Std Dev 1.011

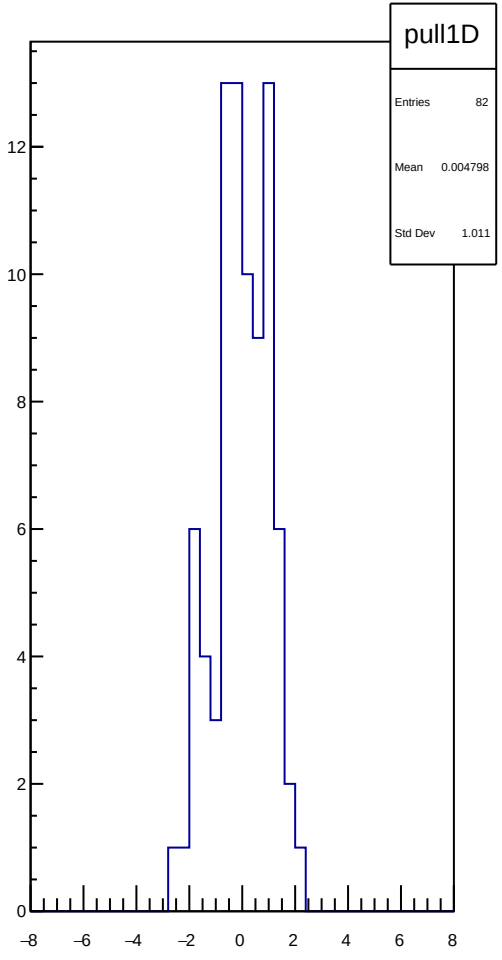

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5057 / 81
p0 38.33 ± 0.03015
44
42
40
38
36
34

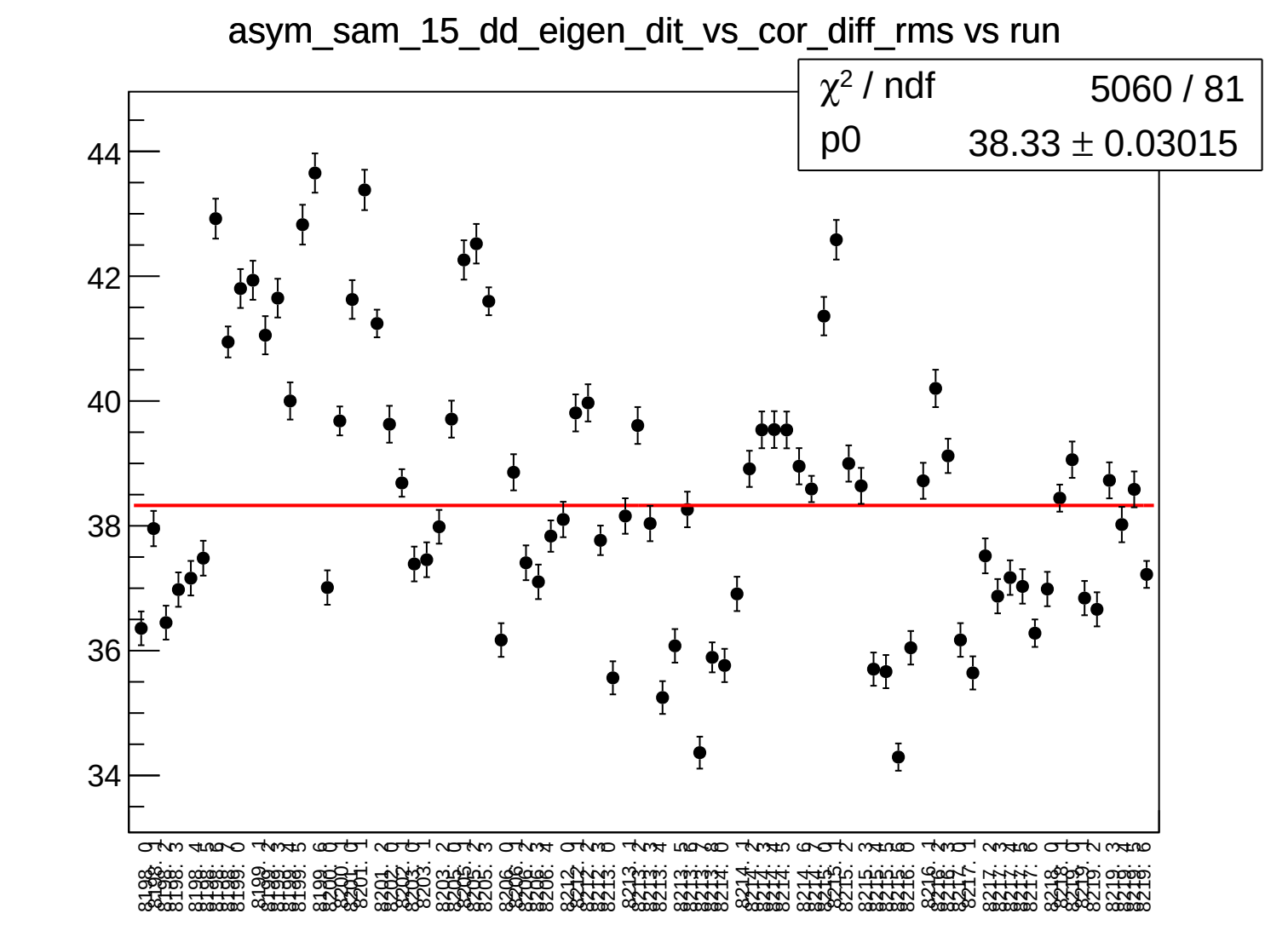

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.36 / 81
p0 3.172e−07 ± 1.255e−06
pull
Entries 82
Mean 74.12
Std Dev 21.34

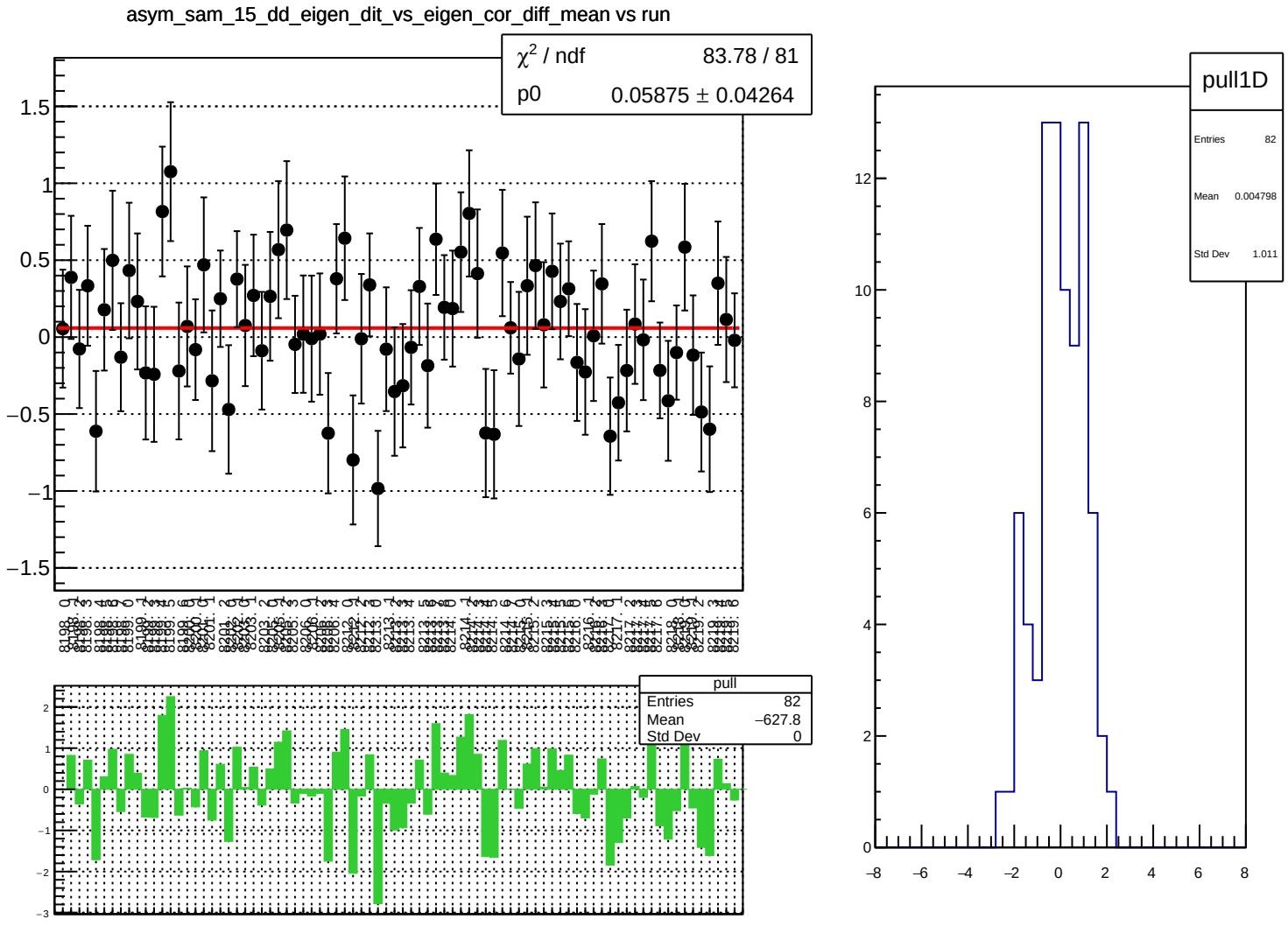

pull1D
Entries 82
Mean −0.1181
Std Dev 1.078

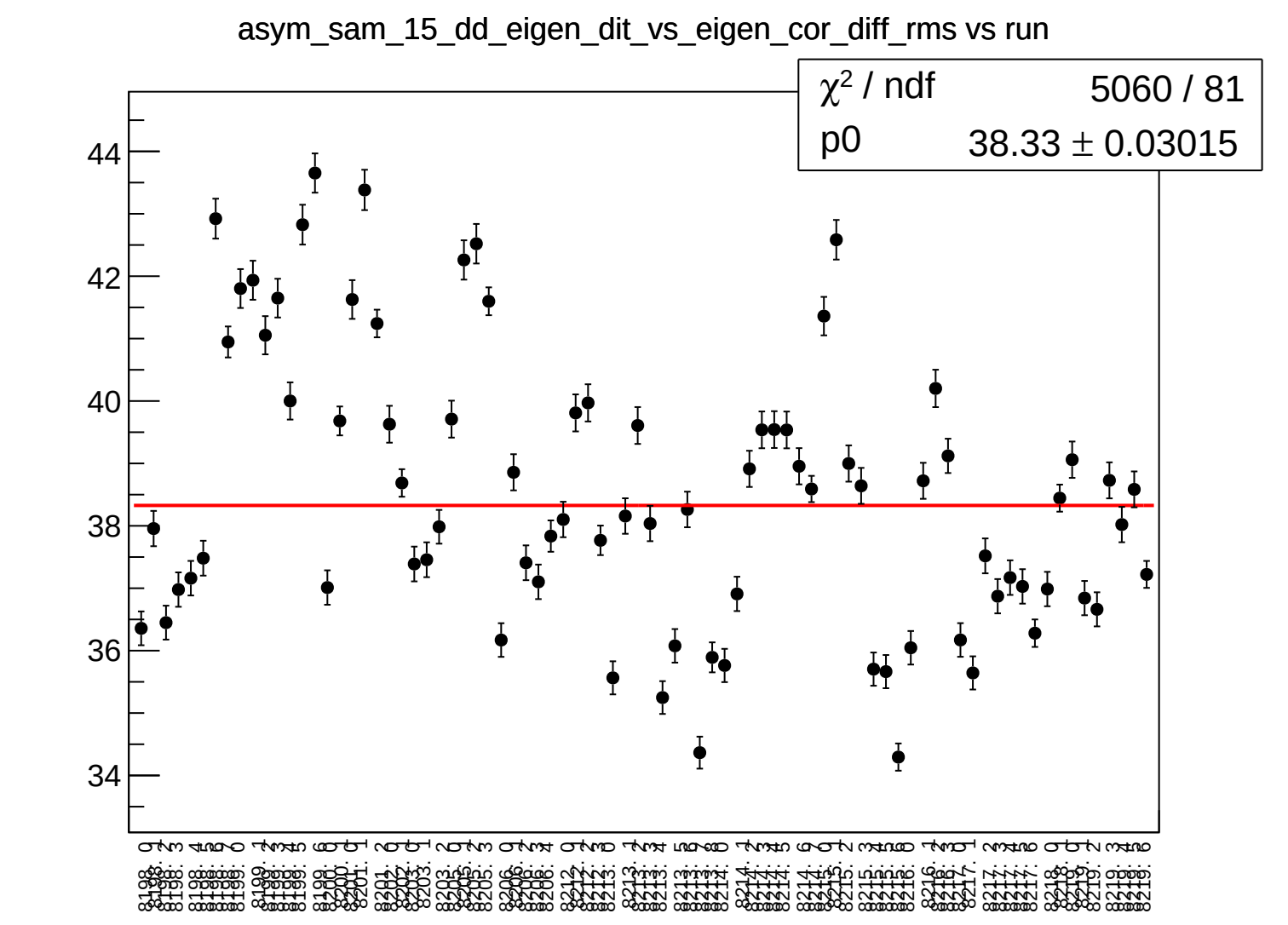

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.23e+05 / 81
p0 0.0008867 ± 8.875e−07
0.005
0.004
0.003
0.002
0.001

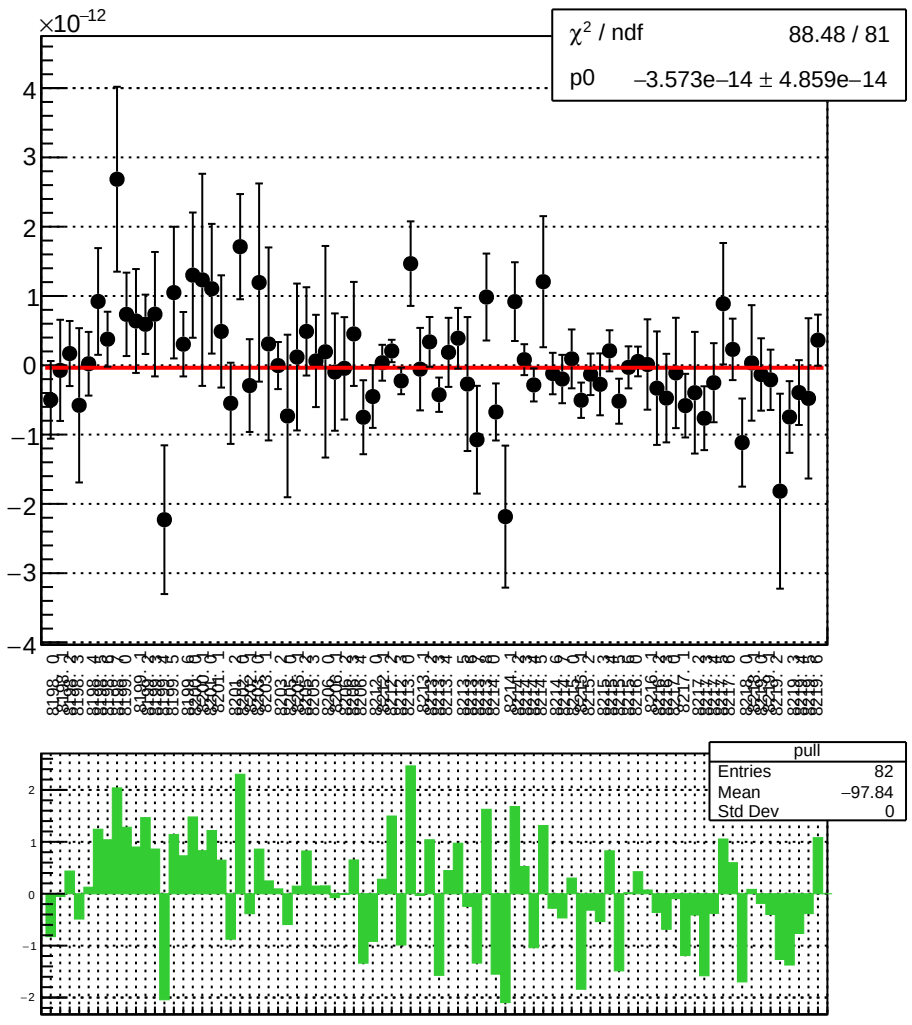

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.78 / 81
p0 0.05875 ± 0.04264
pull
Entries 82
Mean −627.8
Std Dev 0

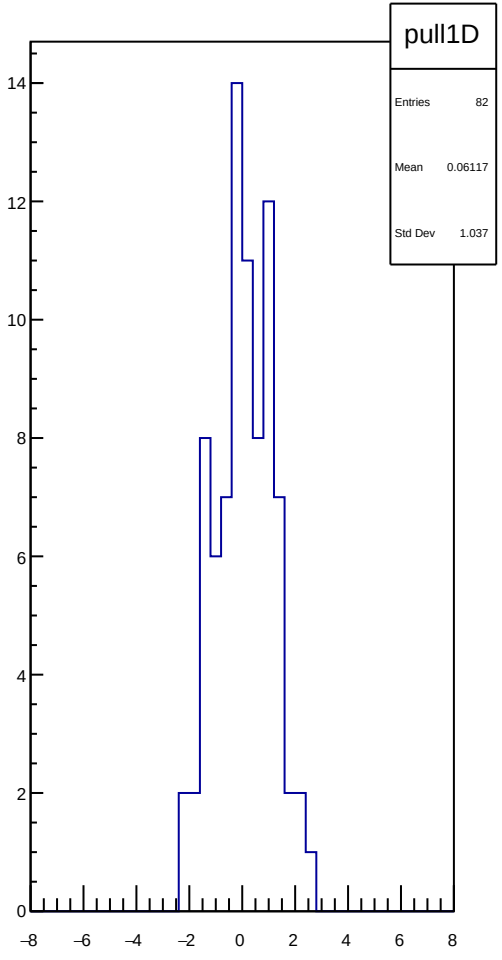

pull1D
Entries 82
Mean 0.004798
Std Dev 1.011

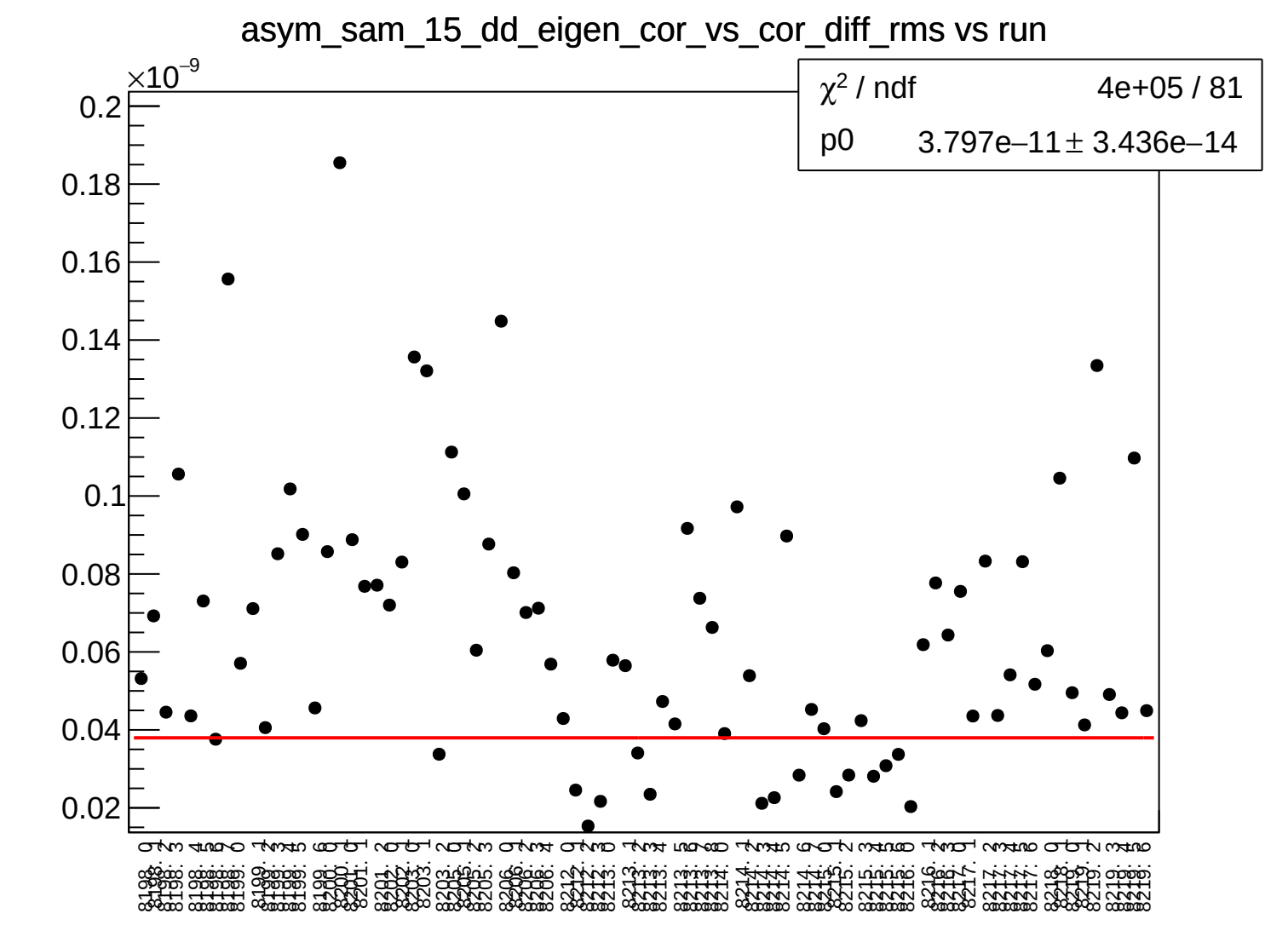

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5060 / 81
p0 38.33 ± 0.03015
44
42
40
38
36
34

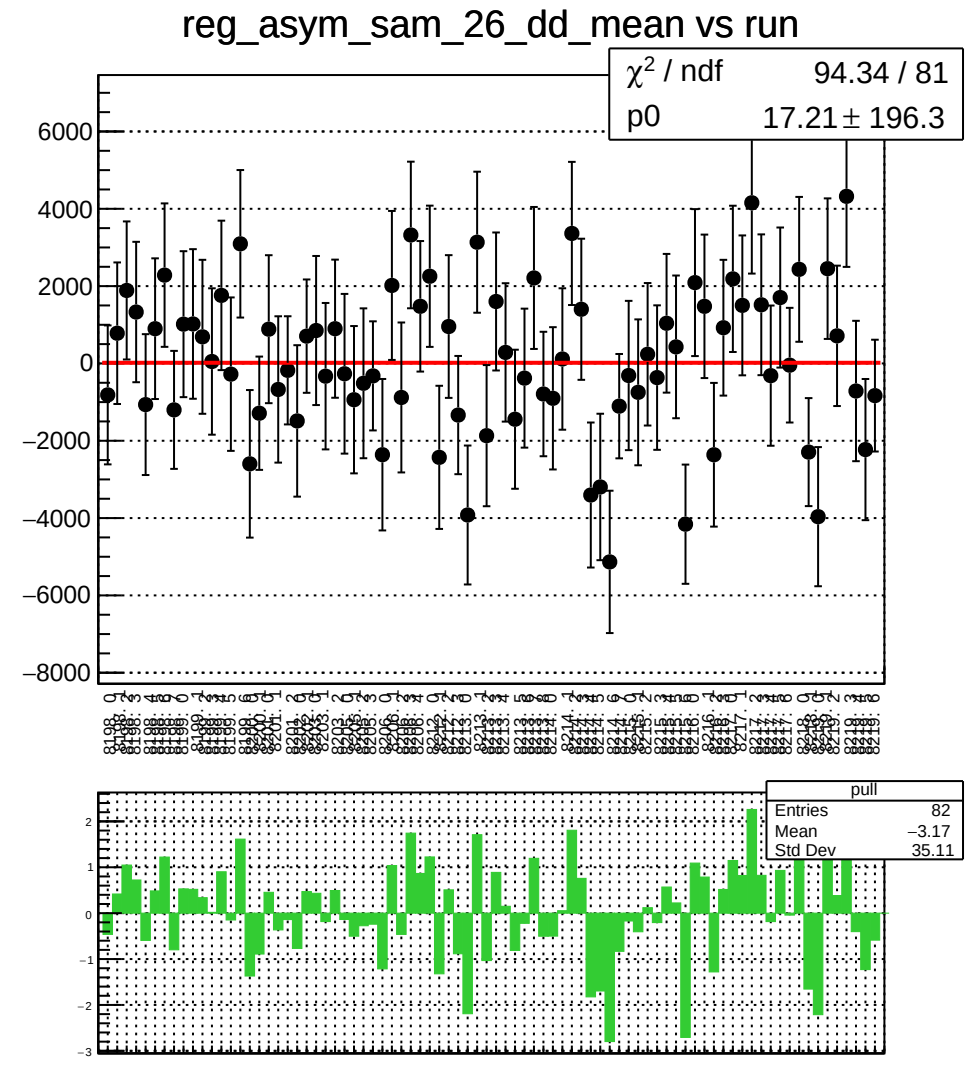

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.78 / 81
p0 0.05875 ± 0.04264
pull
Entries 82
Mean −627.8
Std Dev 0
pull1D
Entries 82
Mean 0.004798
Std Dev 1.011

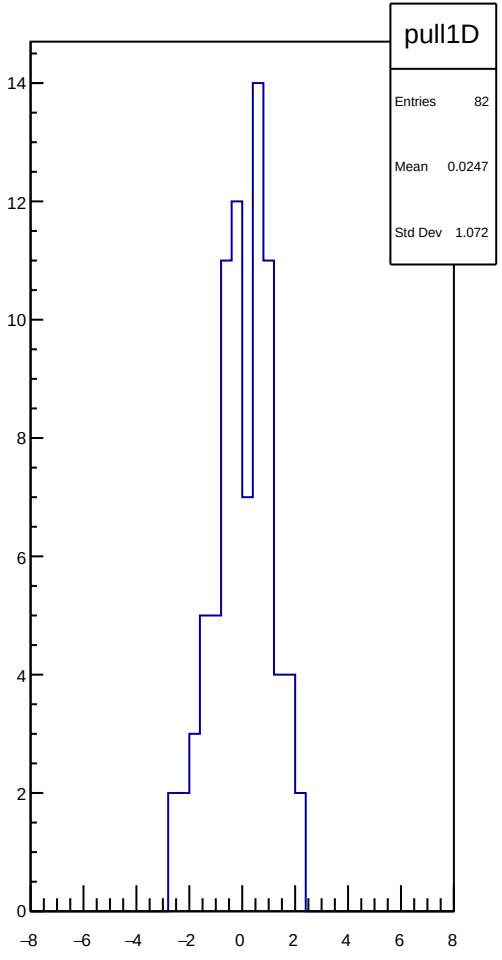

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5060 / 81
p0 38.33 ± 0.03015
44
42
40
38
36
34

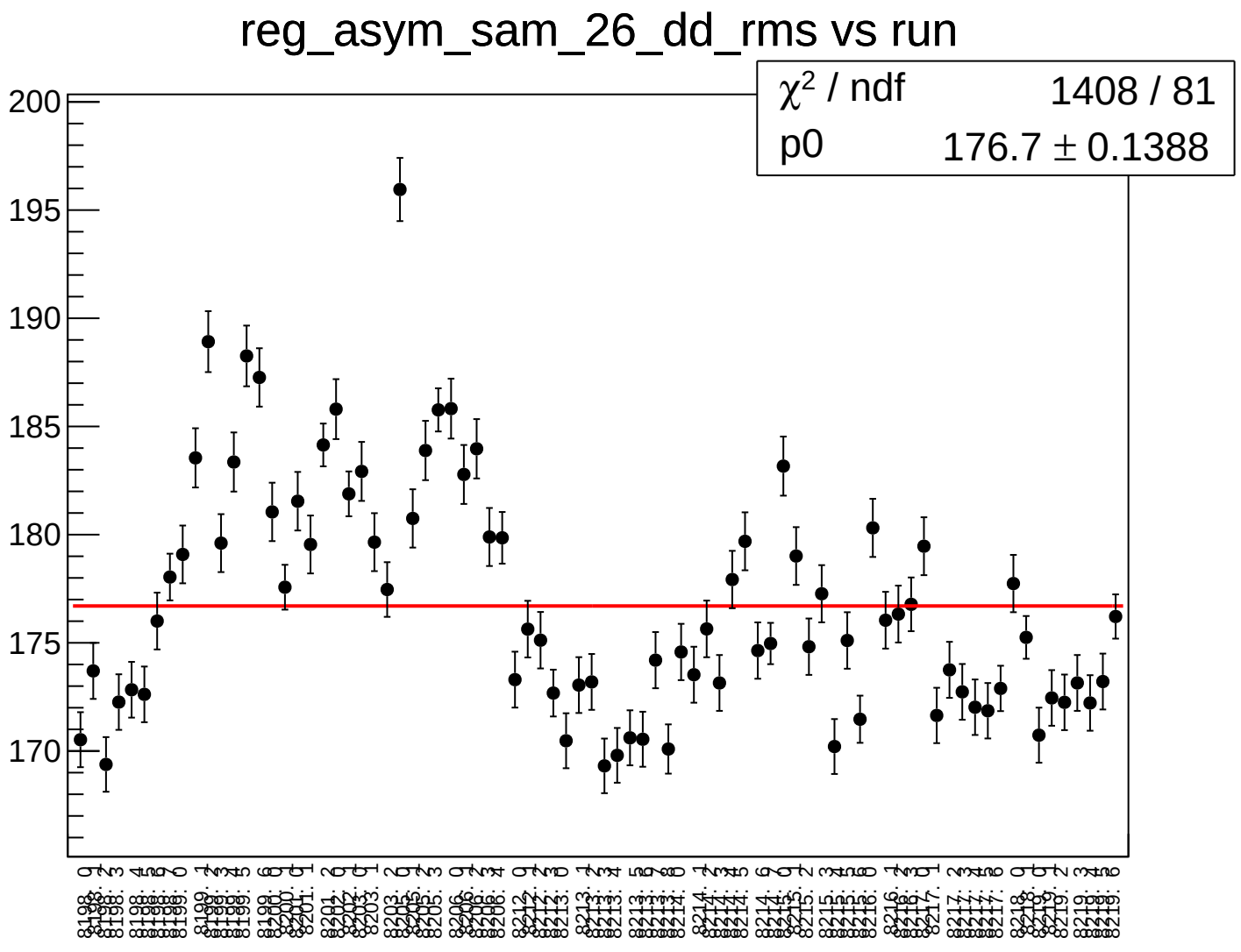

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.48 / 81
p0 −3.573e−14 ± 4.859e−14
pull
Entries 82
Mean −97.84
Std Dev 0

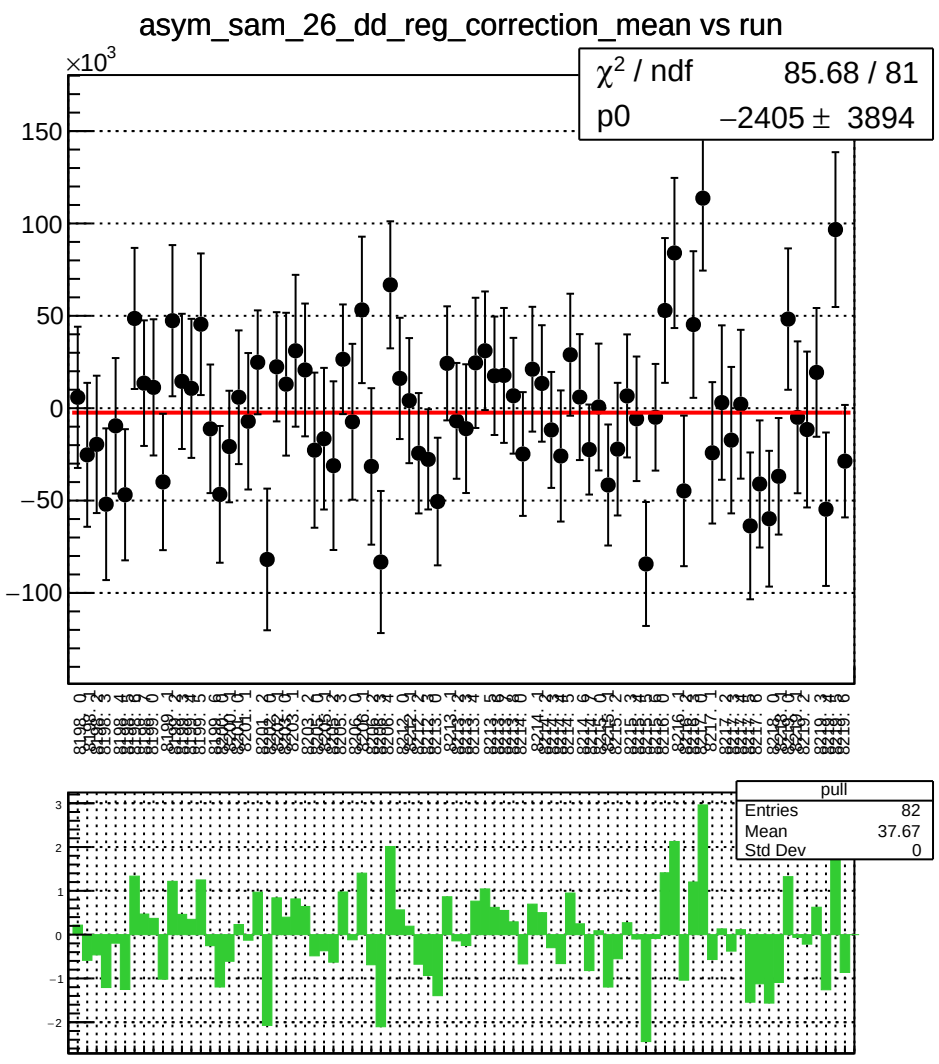

pull1D
Entries 82
Mean 0.06117
Std Dev 1.037

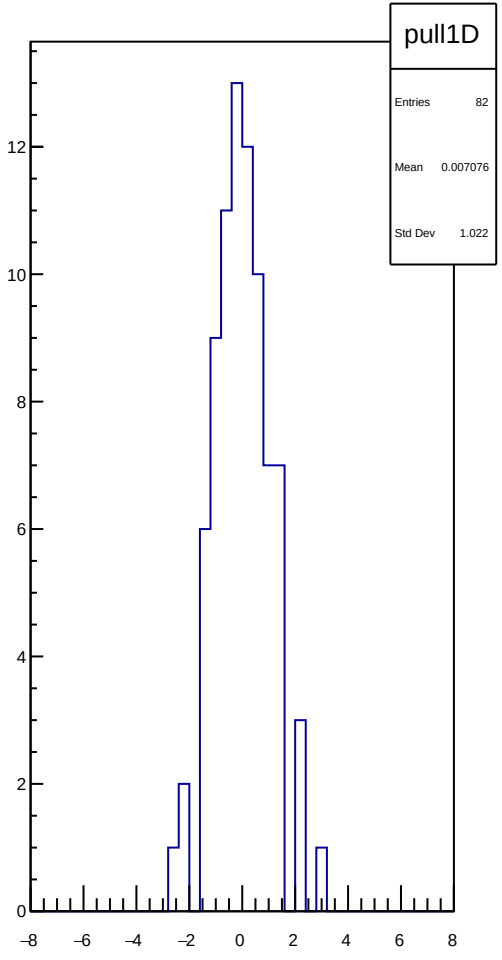

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4e+05 / 81
p0 3.797e−11 ± 3.436e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

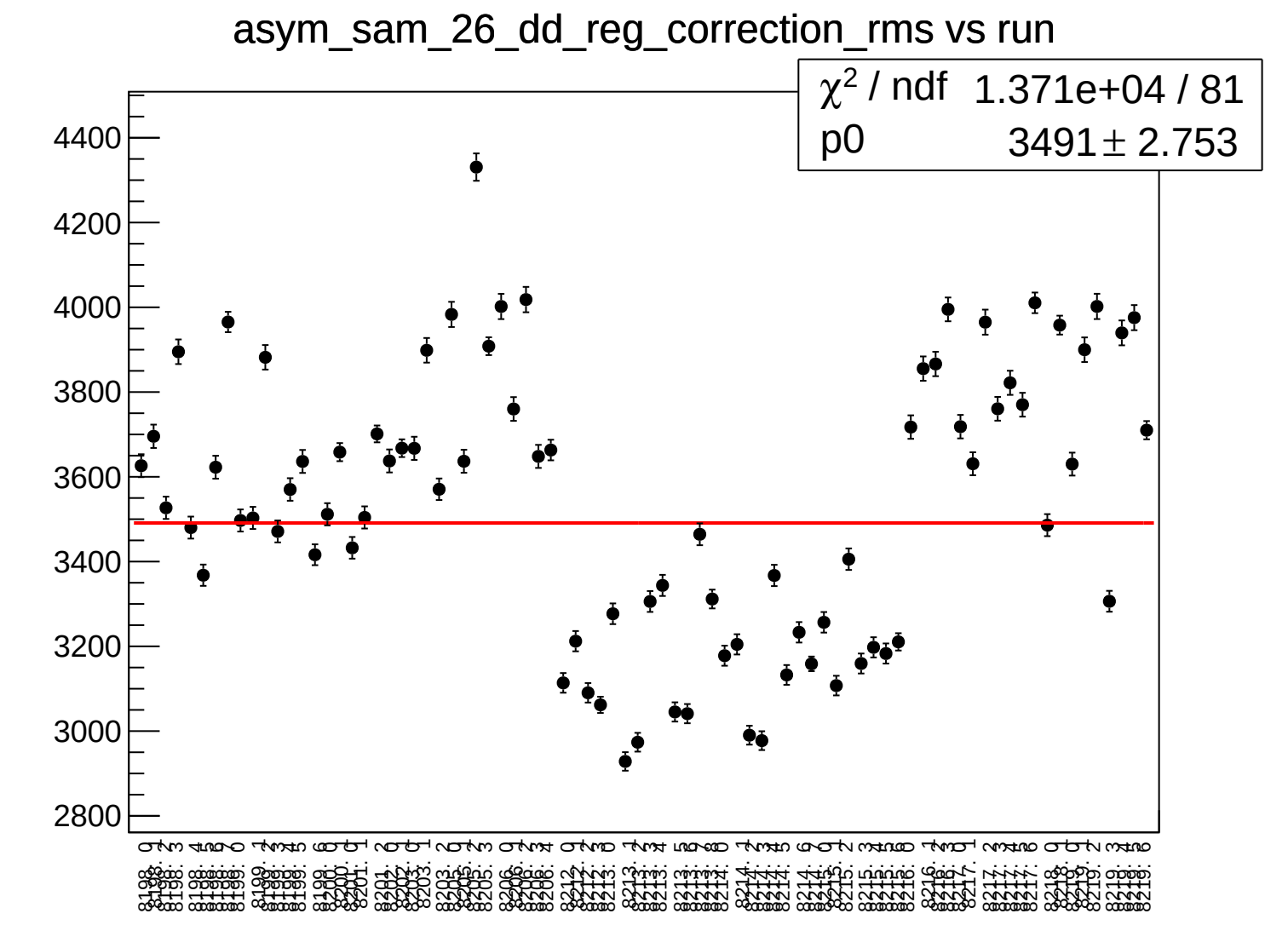

reg_asym_sam_26_dd_mean vs run
χ² / ndf 94.34 / 81
p0 17.21 ± 196.3
pull
Entries 82
Mean −3.17
Std Dev 35.11

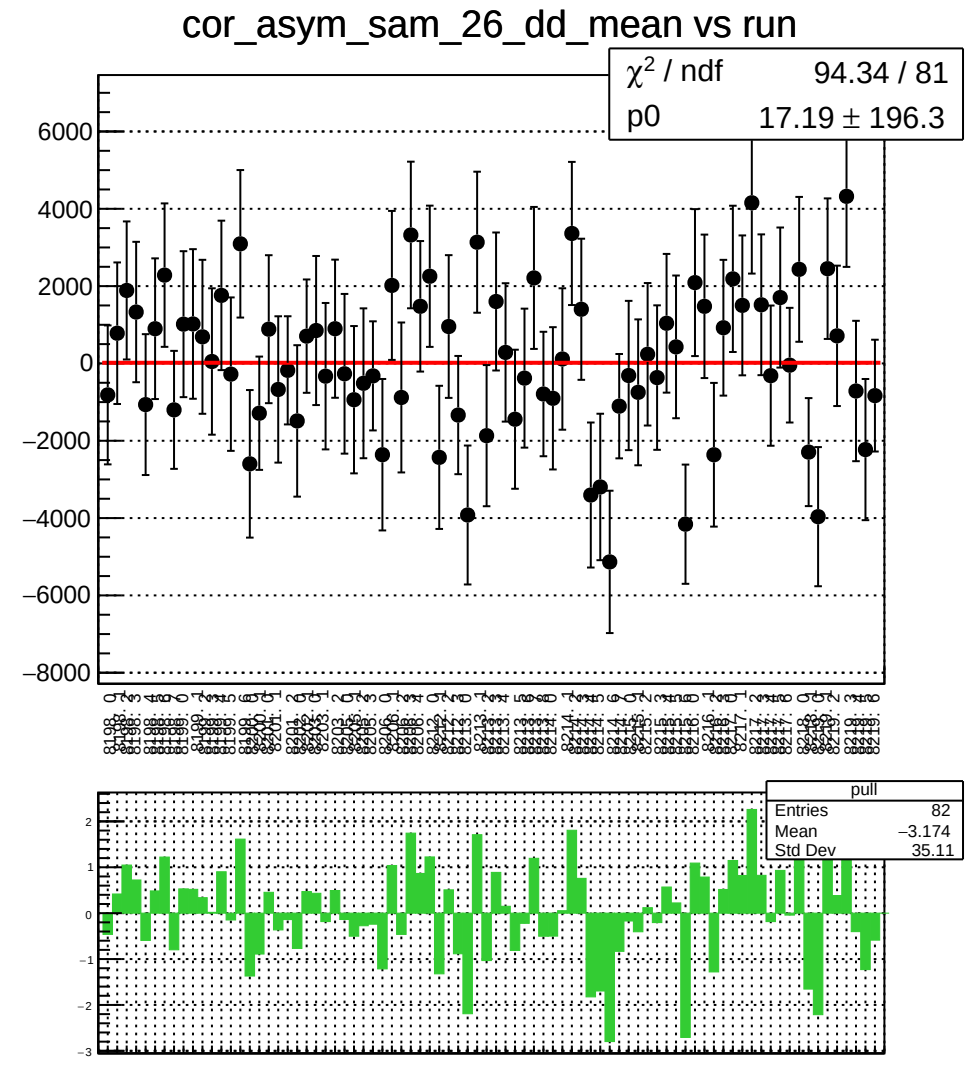

pull1D
Entries 82
Mean 0.0247
Std Dev 1.072

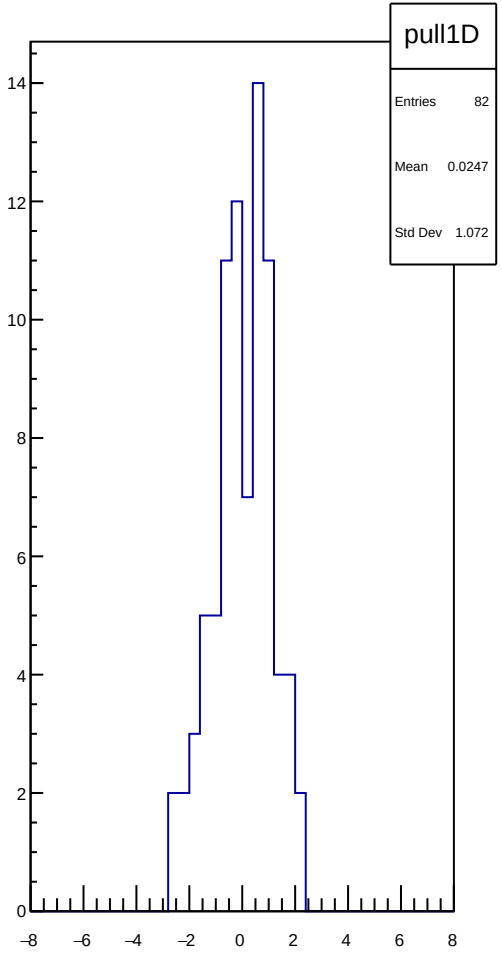

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1408 / 81
p0 176.7 ± 0.1388
200
195
190
185
180
175
170

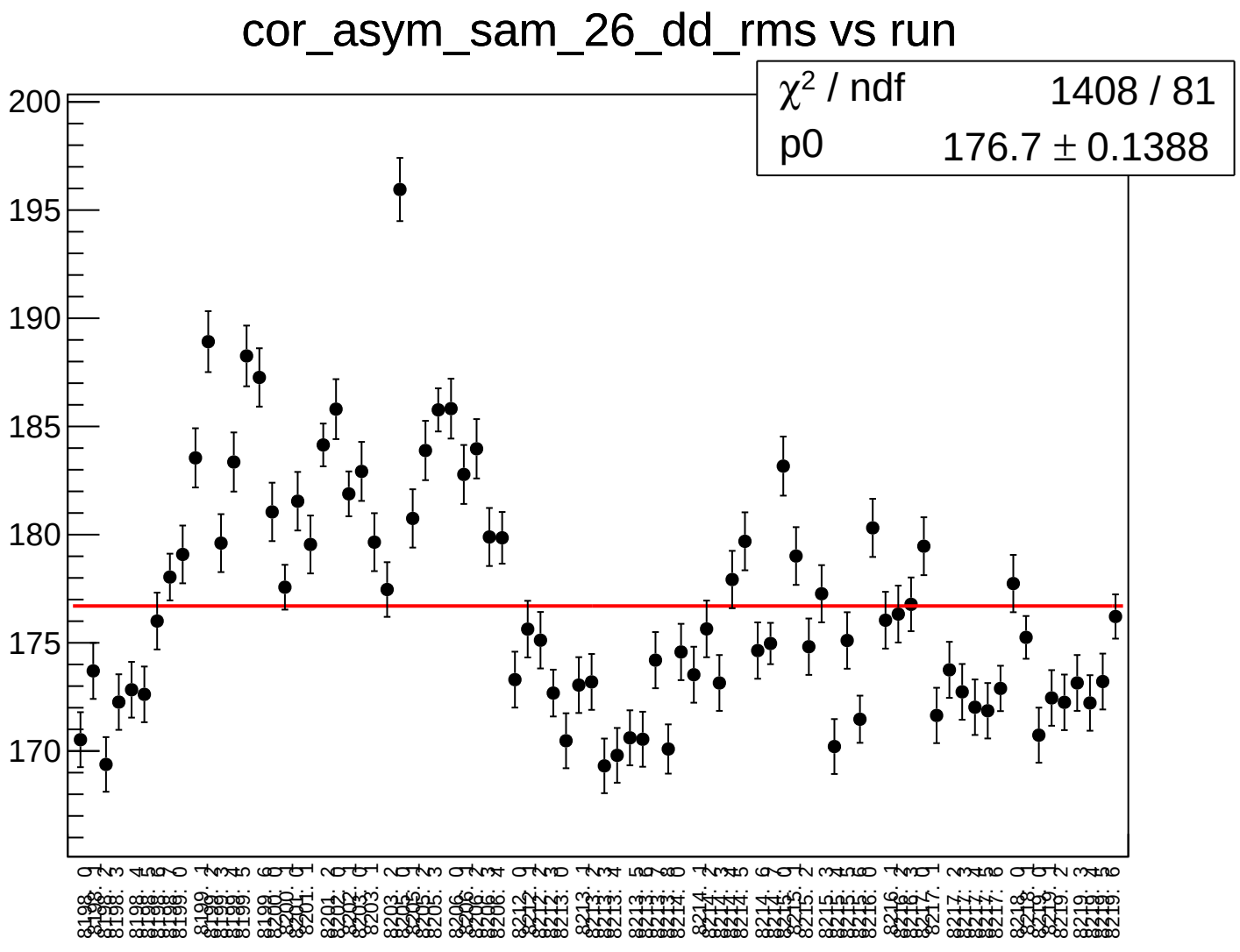

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.68 / 81
p0 −2405 ± 3894
150
100
50
0
−50
−100
pull
Entries 82
Mean 37.67
Std Dev 0
3
2
1
0
−1
−2

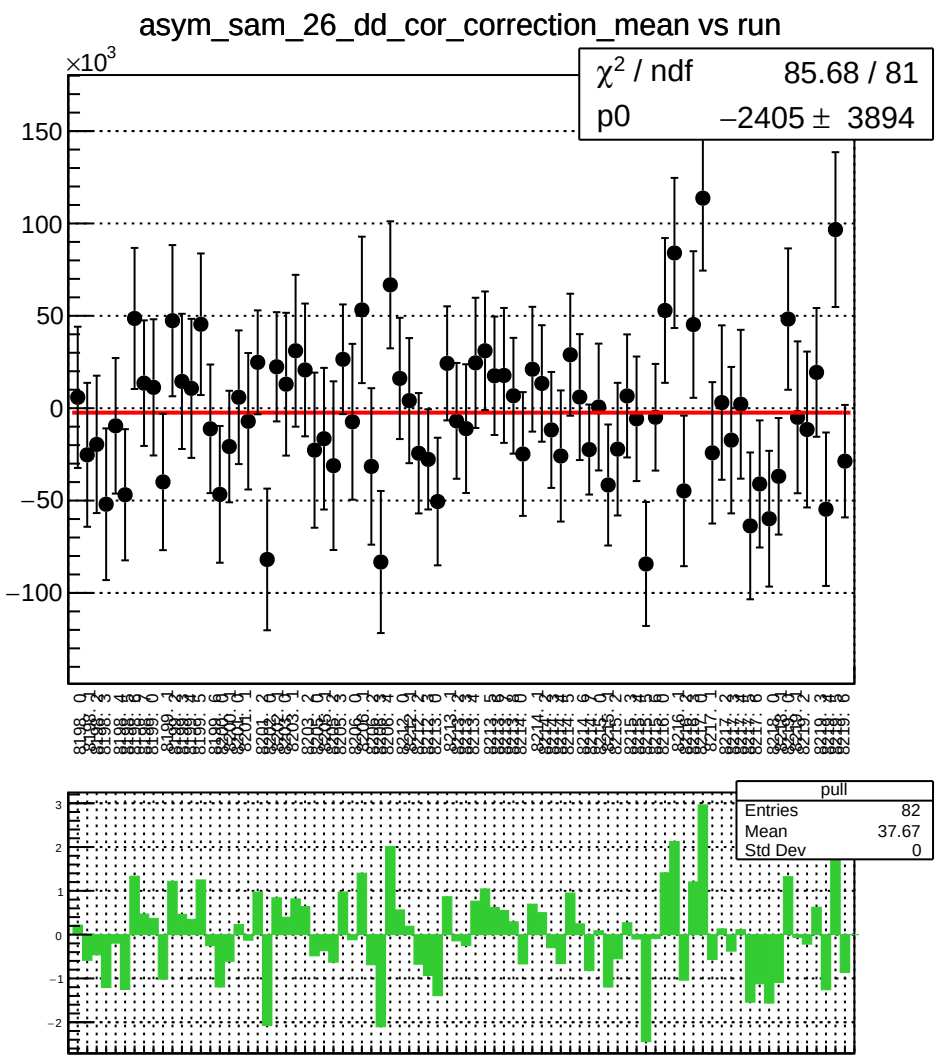

pull1D
Entries 82
Mean 0.007076
Std Dev 1.022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

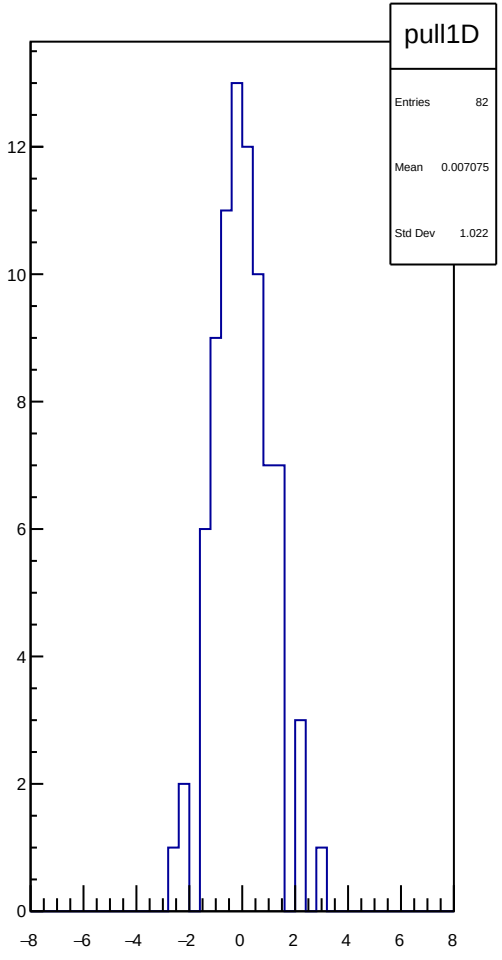

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 1.371e+04 / 81
p0 3491 ± 2.753
4400
4200
4000
3800
3600
3400
3200
3000
2800


cor_asym_sam_26_dd_mean vs run
χ² / ndf 94.34 / 81
p0 17.19 ± 196.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 82
Mean −3.174
Std Dev 35.11
2
1
0
−1
−2
−3


pull1D
Entries 82
Mean 0.0247
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_26_dd_rms vs run
χ² / ndf 1408 / 81
p0 176.7 ± 0.1388
200
195
190
185
180
175
170


asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 85.68 / 81
p0 −2405 ± 3894
150
100
50
0
−50
−100
pull
Entries 82
Mean 37.67
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 82
Mean 0.007075
Std Dev 1.022
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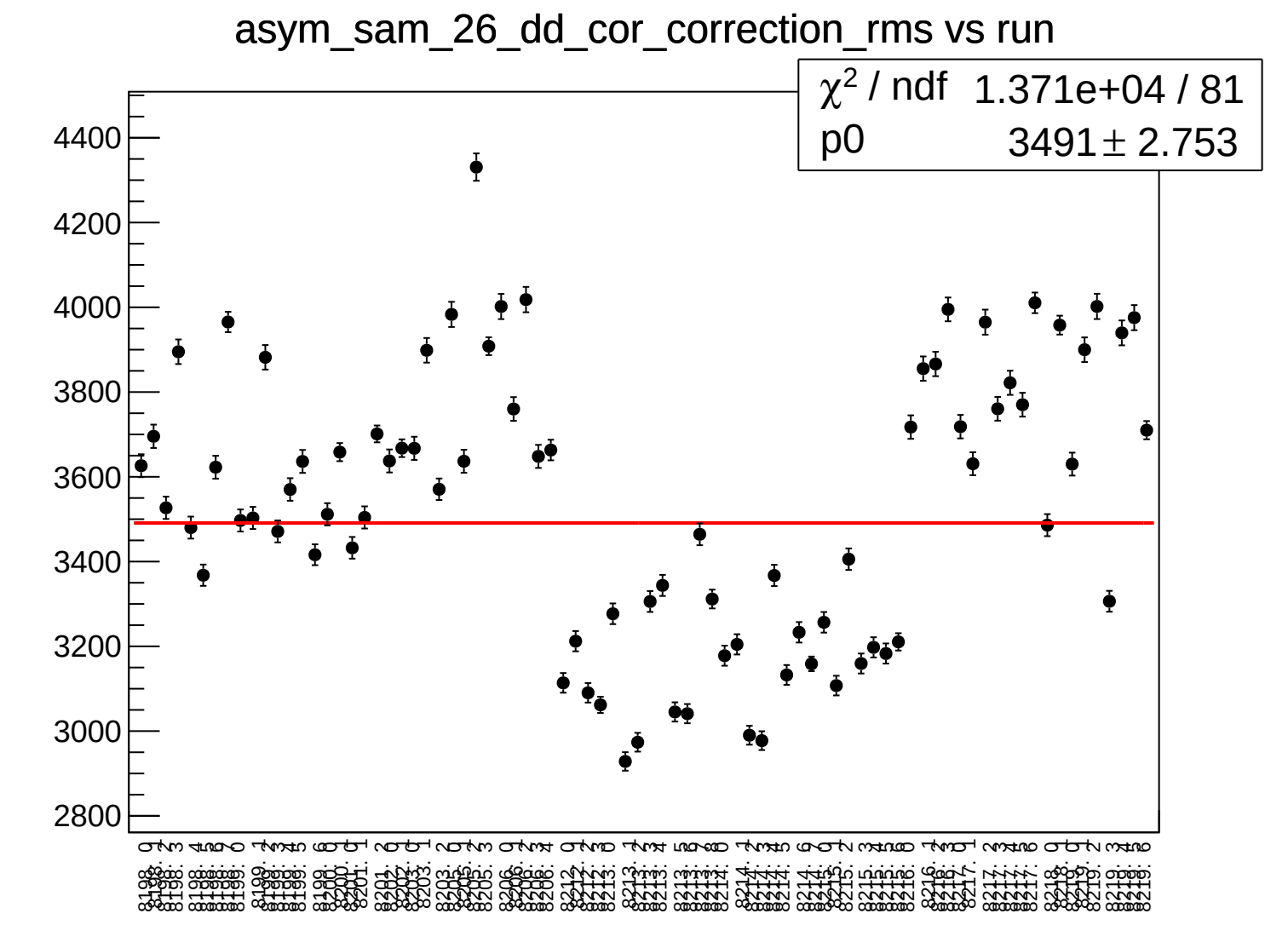
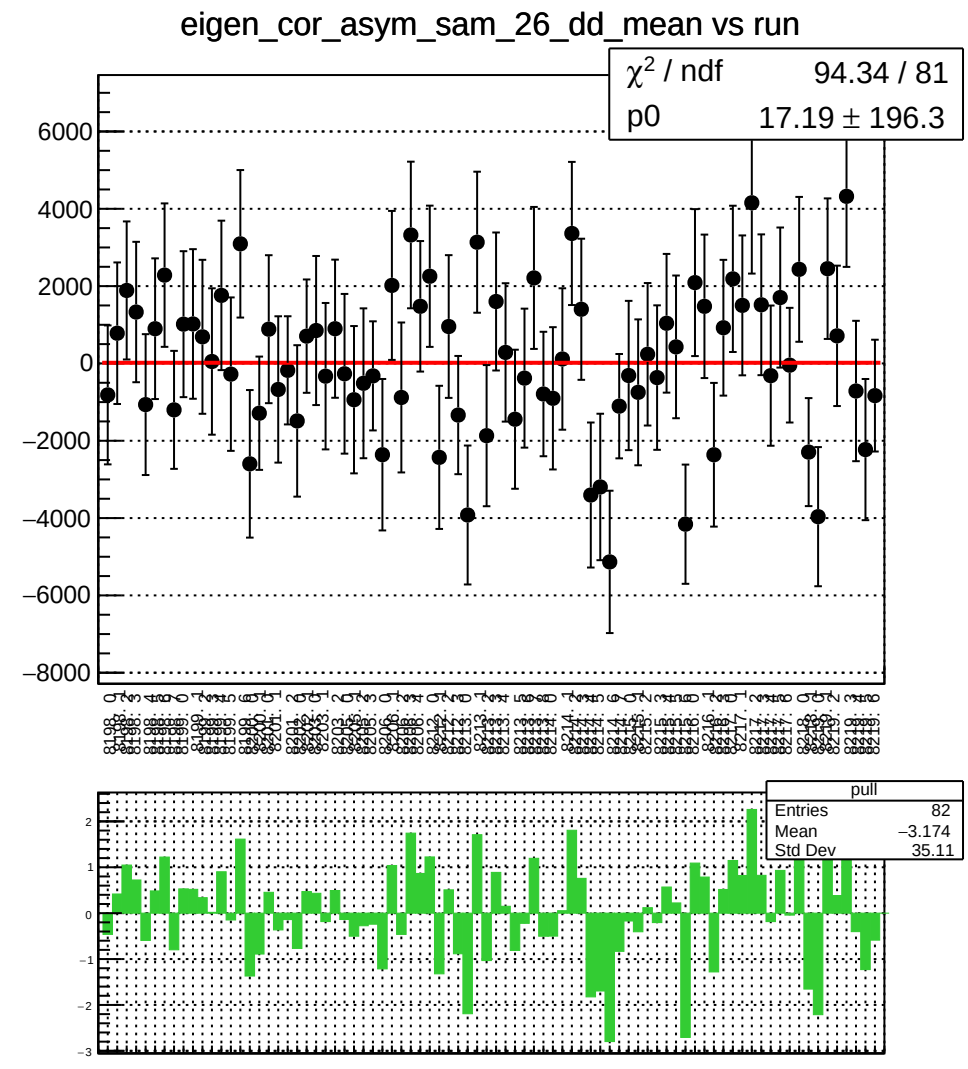
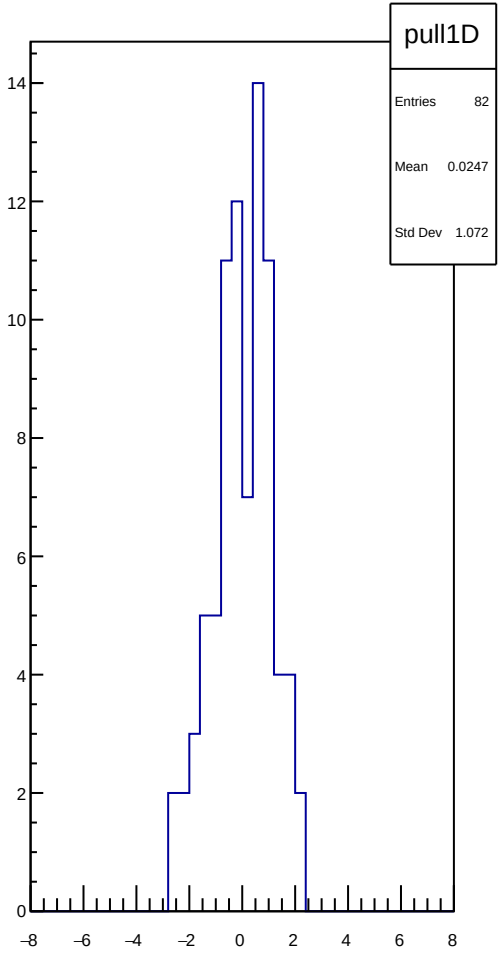
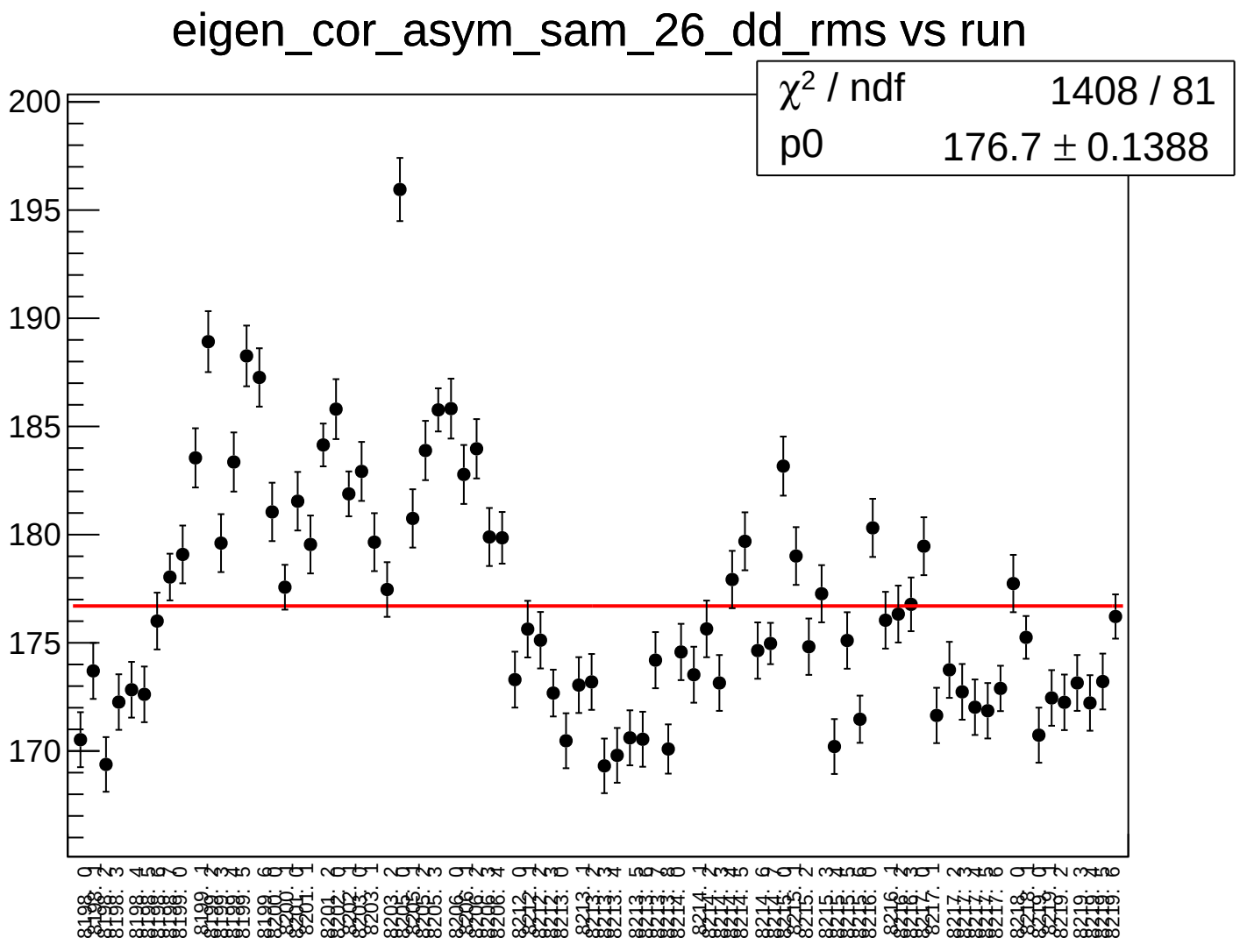
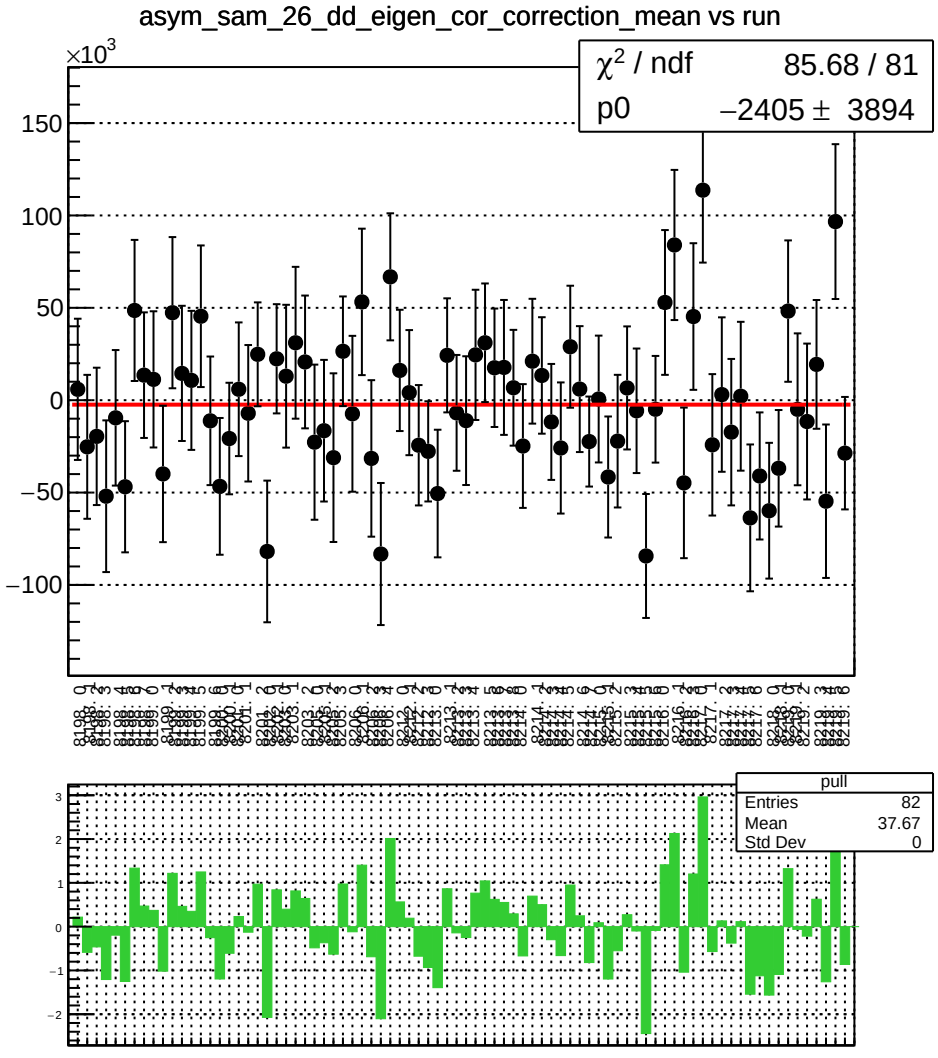
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

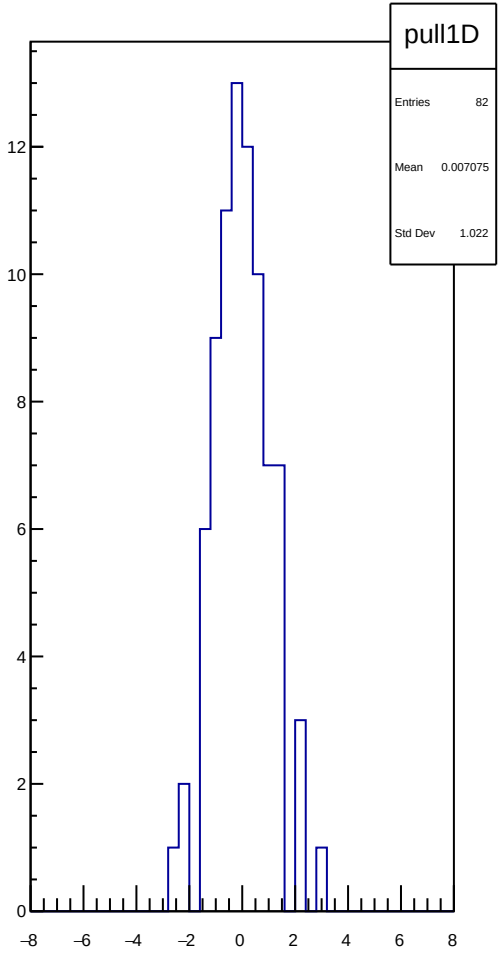

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 1.371e+04 / 81
p0 3491 ± 2.753
4400
4200
4000
3800
3600
3400
3200
3000
2800

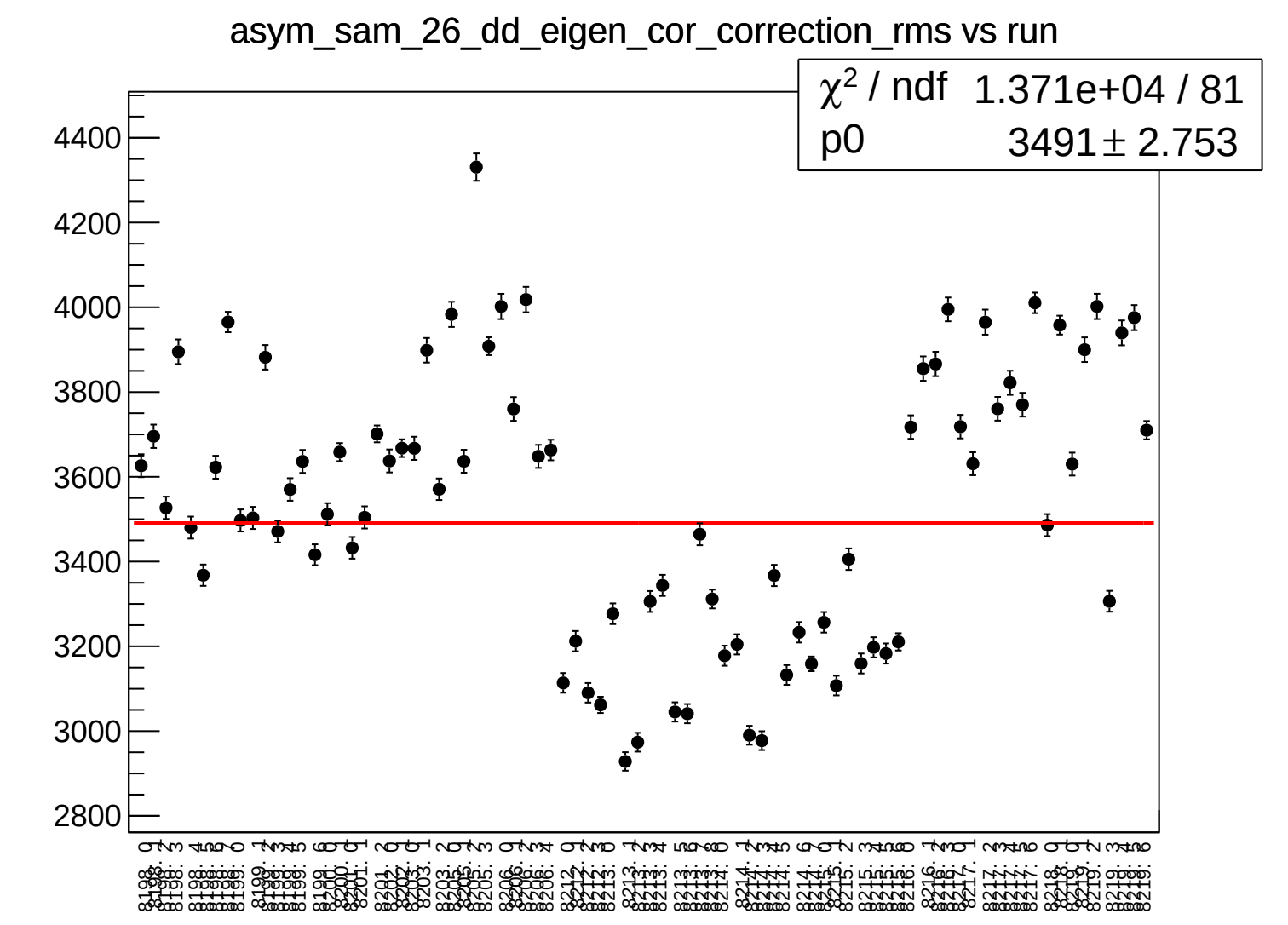

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 94.34 / 81
p0 17.19 ± 196.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 82
Mean −3.174
Std Dev 35.11
2
1
0
−1
−2
−3

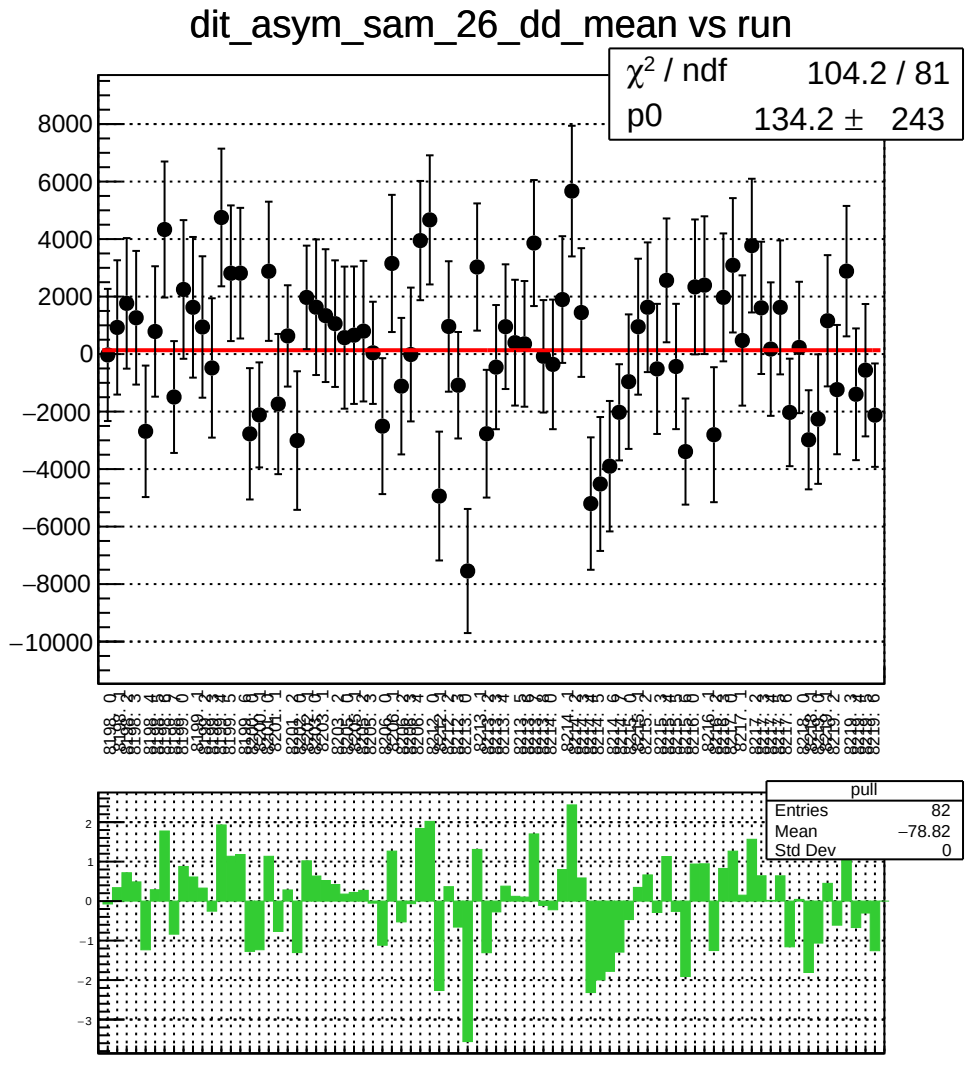

pull1D
Entries 82
Mean 0.0247
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

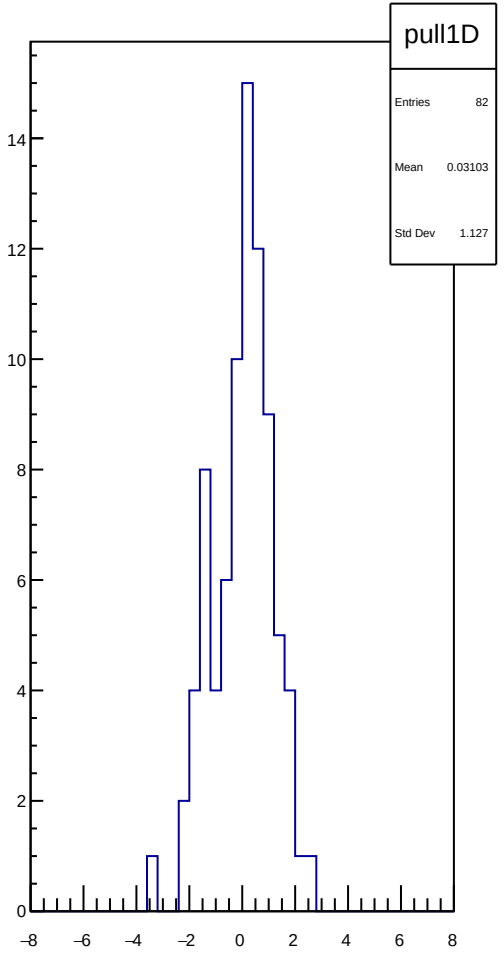

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1408 / 81
p0 176.7 ± 0.1388
200
195
190
185
180
175
170

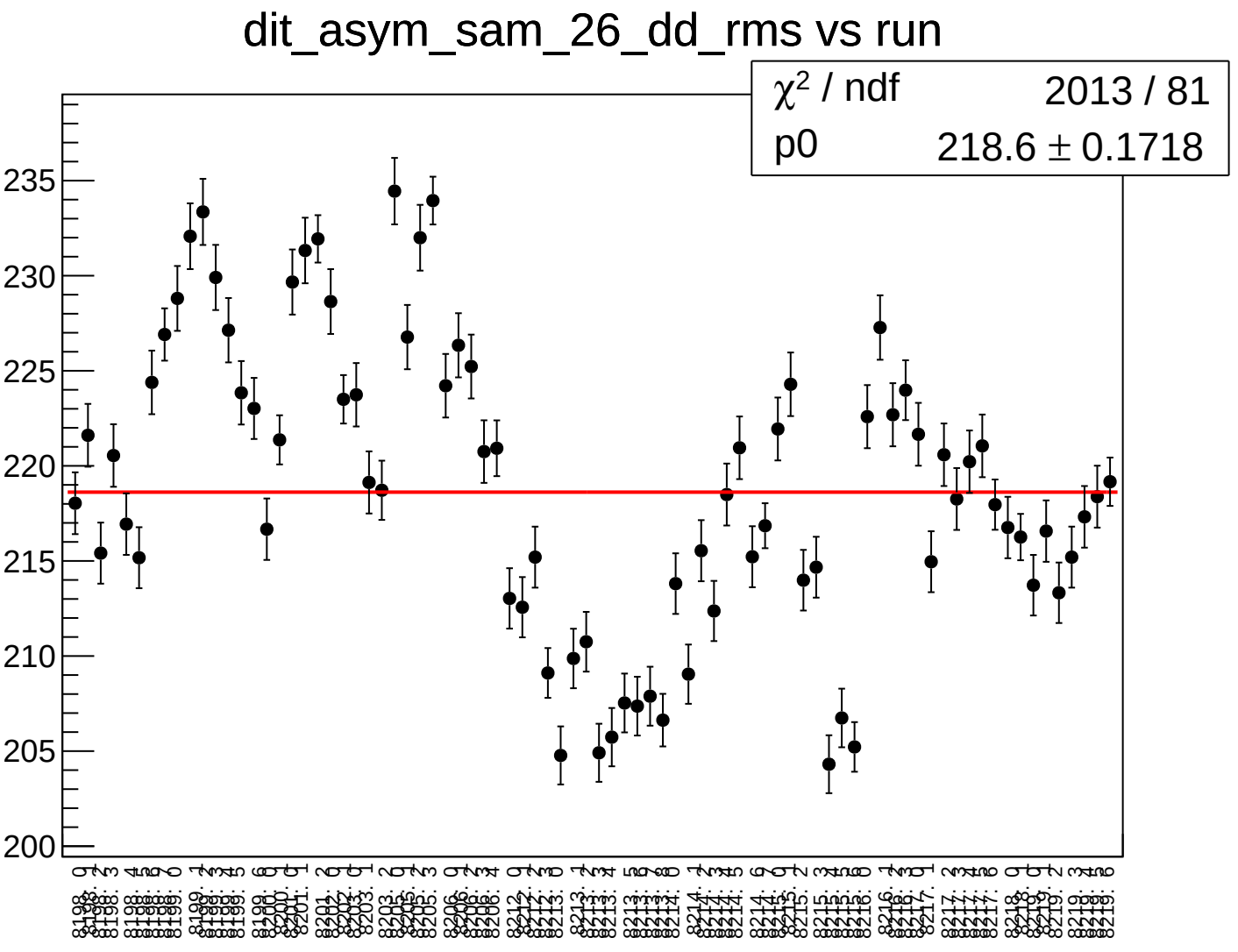

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.68 / 81
p0 −2405 ± 3894
150
100
50
0
−50
−100
pull
Entries 82
Mean 37.67
Std Dev 0
3
2
1
0
−1
−2

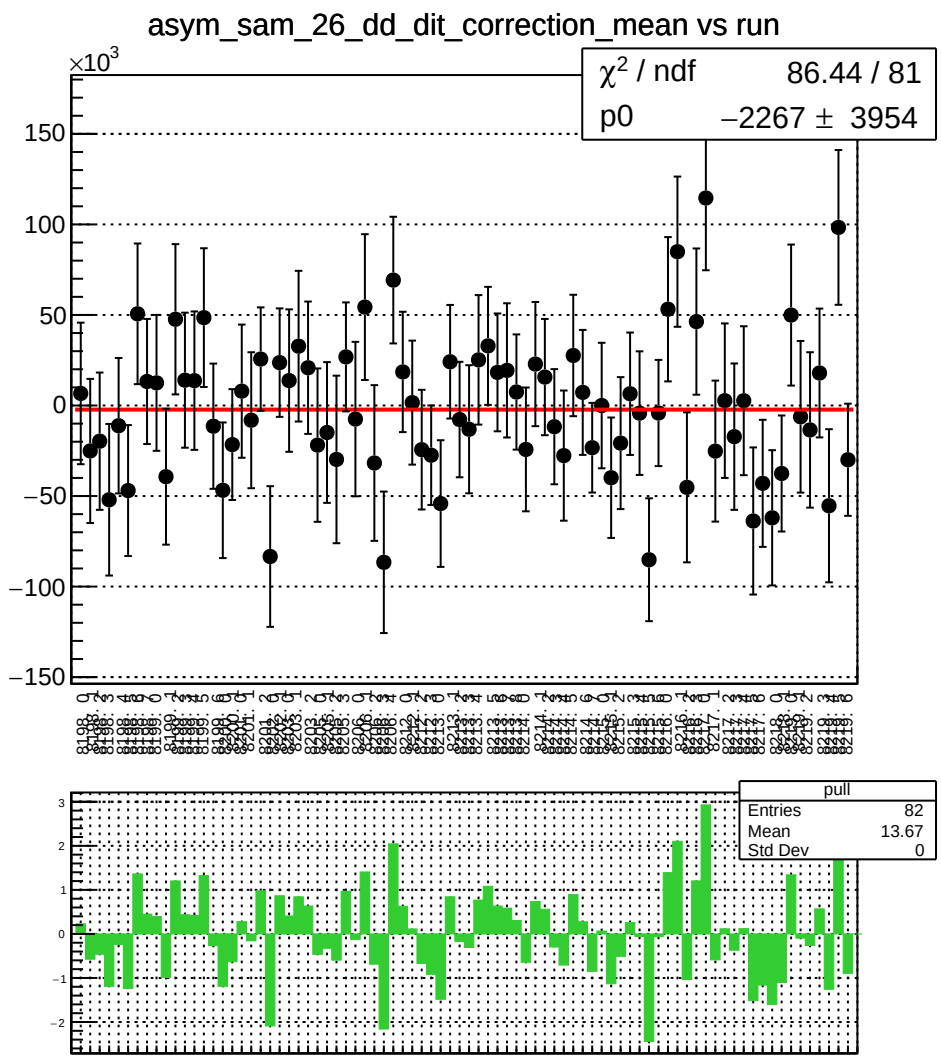

pull1D
Entries 82
Mean 0.007075
Std Dev 1.022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

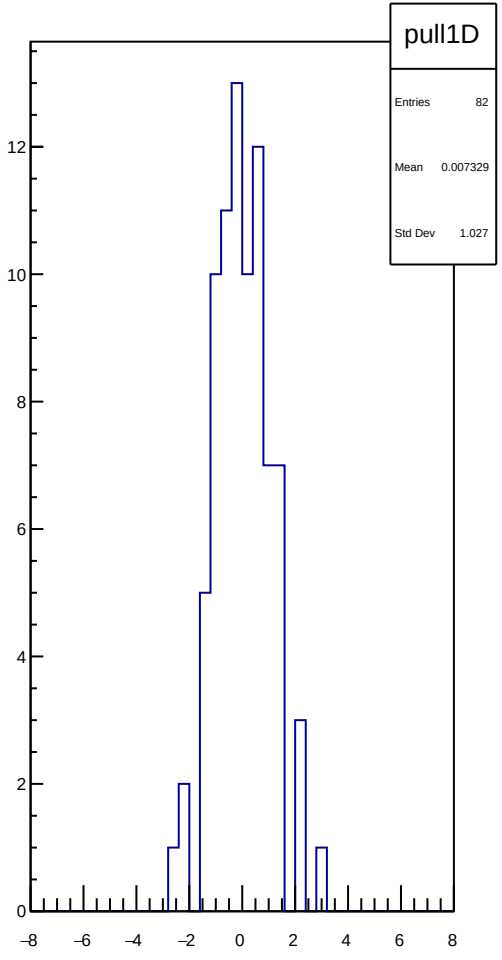

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.371e+04 / 81
p0 3491 ± 2.753
4400
4200
4000
3800
3600
3400
3200
3000
2800

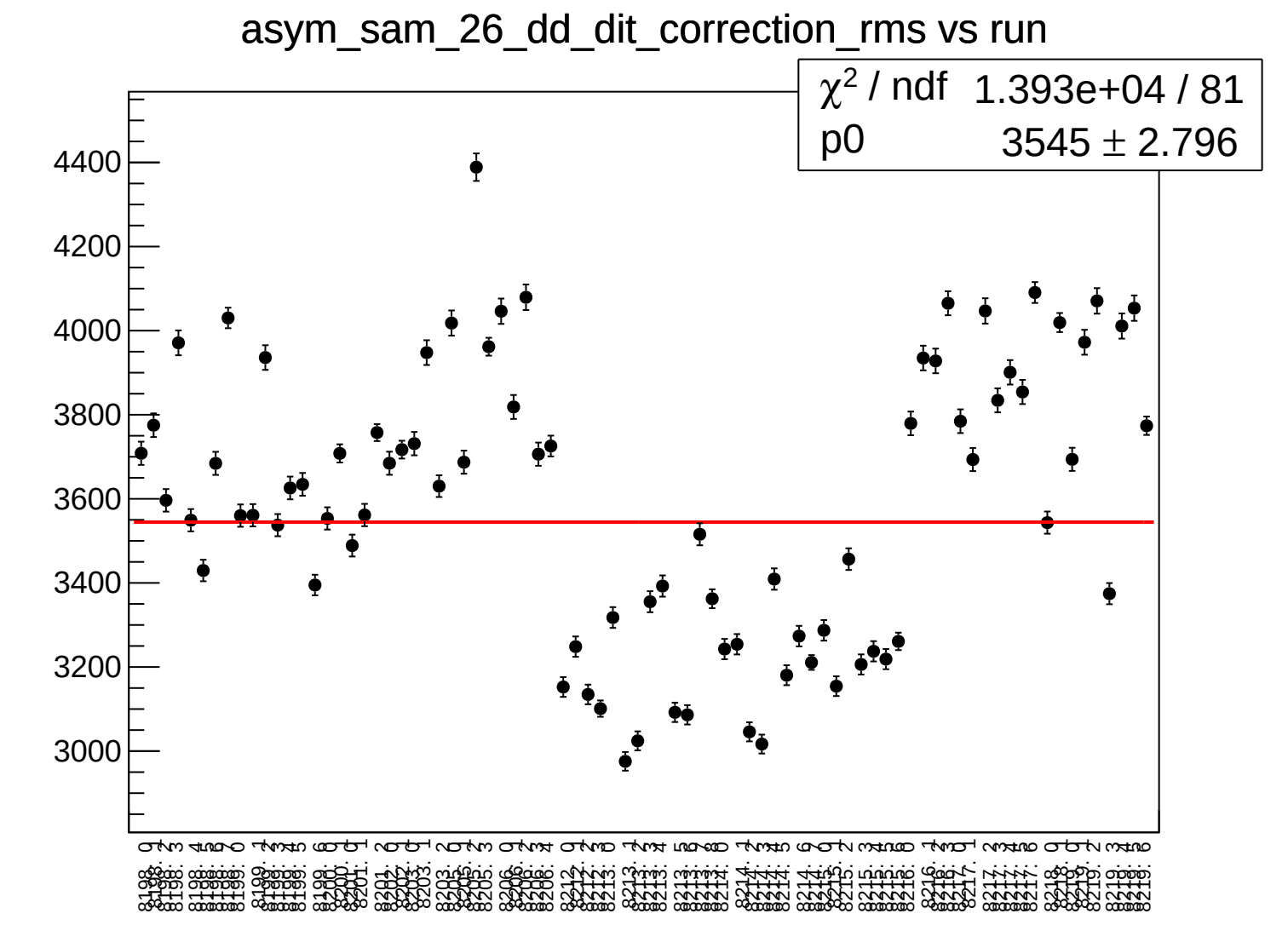

dit_asym_sam_26_dd_mean vs run
χ² / ndf 104.2 / 81
p0 134.2 ± 243
pull
Entries 82
Mean −78.82
Std Dev 0

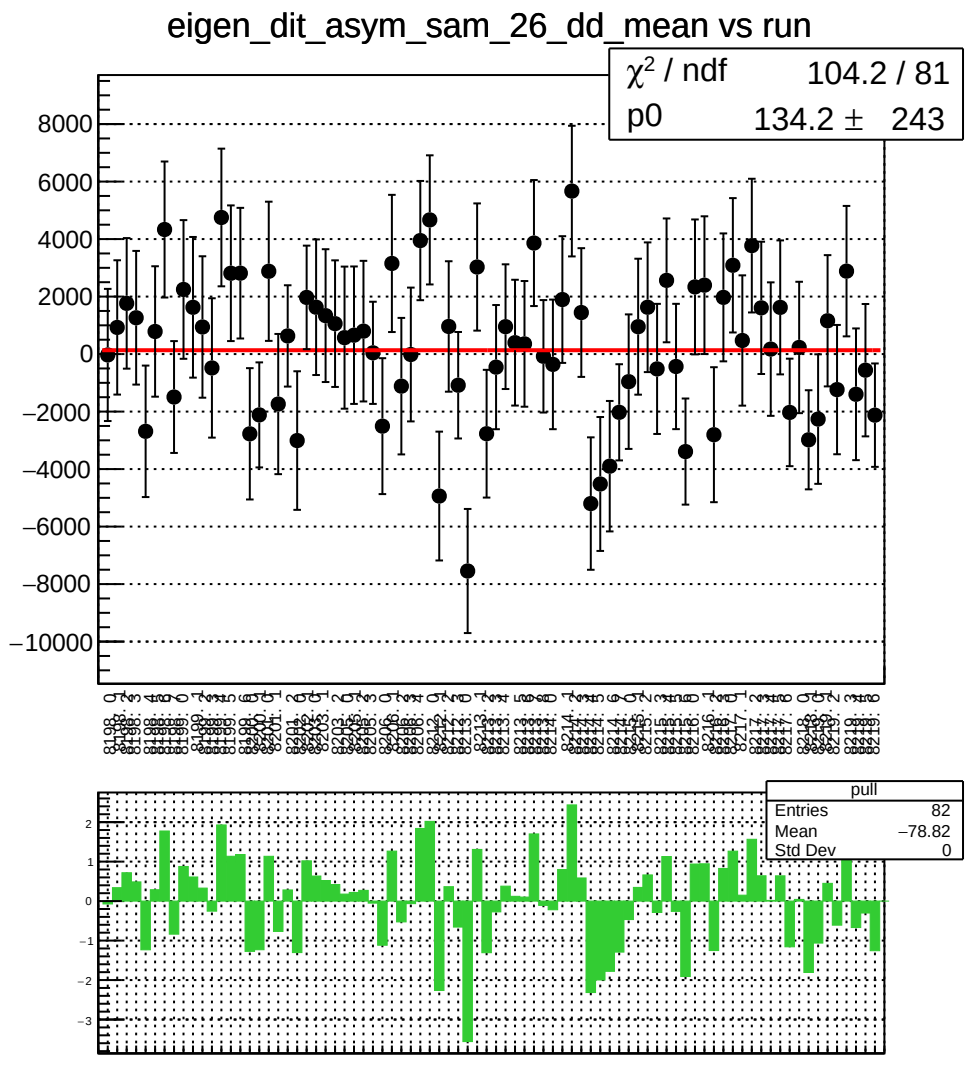

pull1D
Entries 82
Mean 0.03103
Std Dev 1.127

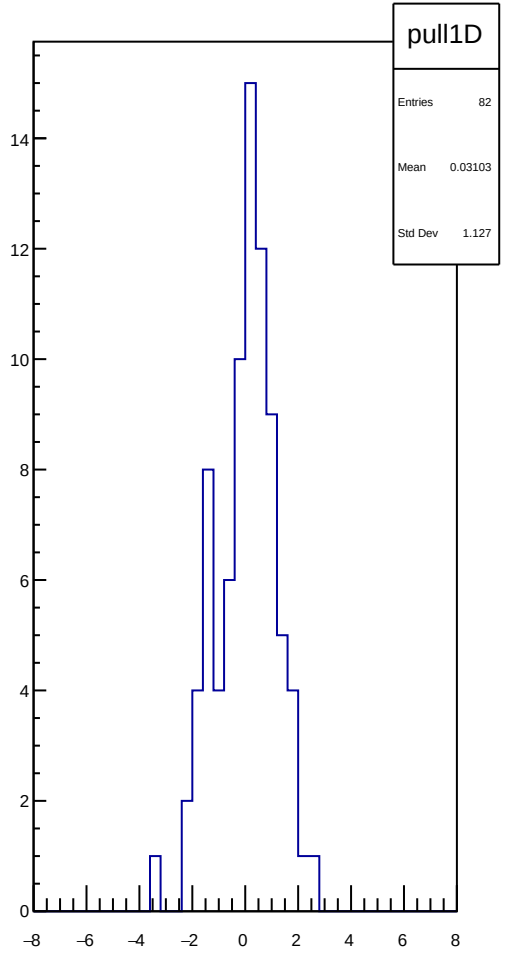

dit_asym_sam_26_dd_rms vs run
χ² / ndf 2013 / 81
p0 218.6 ± 0.1718
235
230
225
220
215
210
205
200

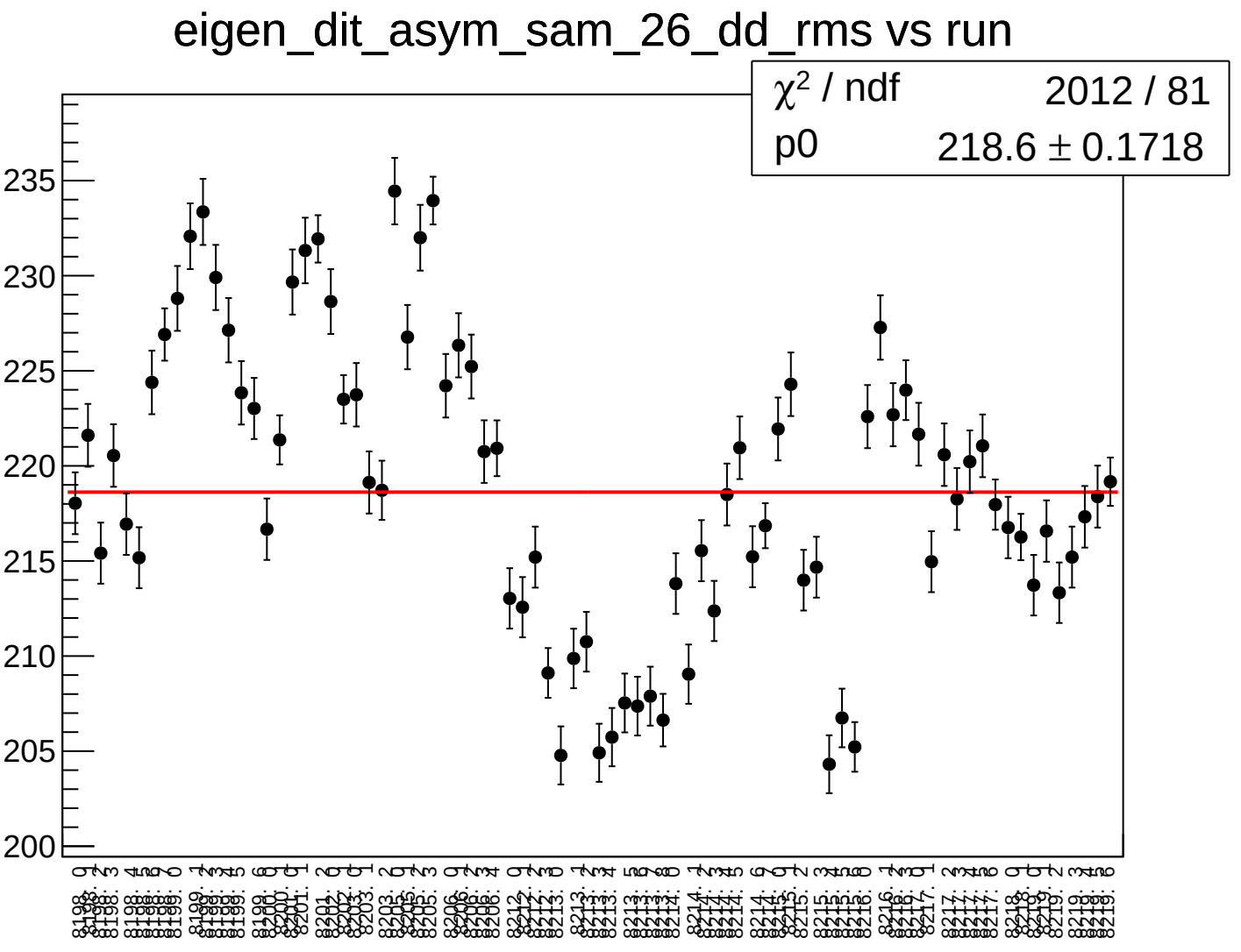

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.44 / 81
p0 −2267 ± 3954
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 13.67
Std Dev 0
3
2
1
0
−1
−2

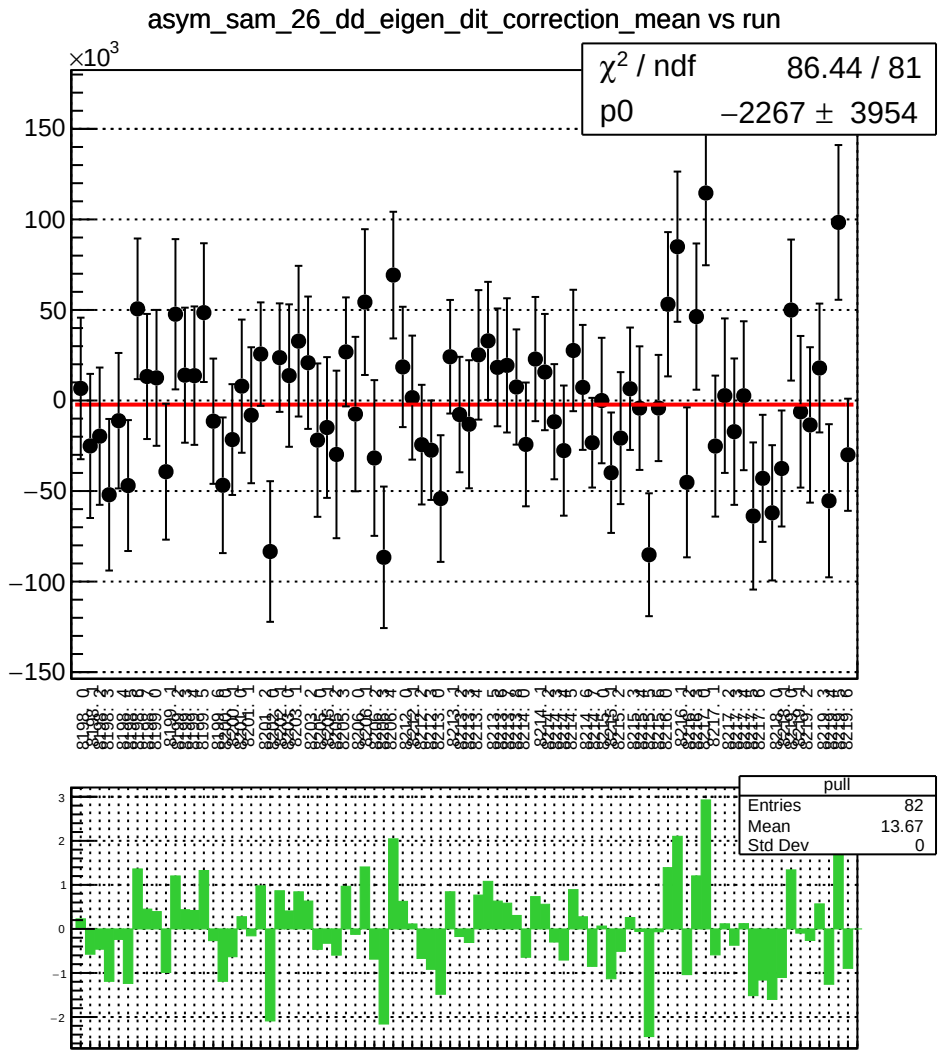

pull1D
Entries 82
Mean 0.007329
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

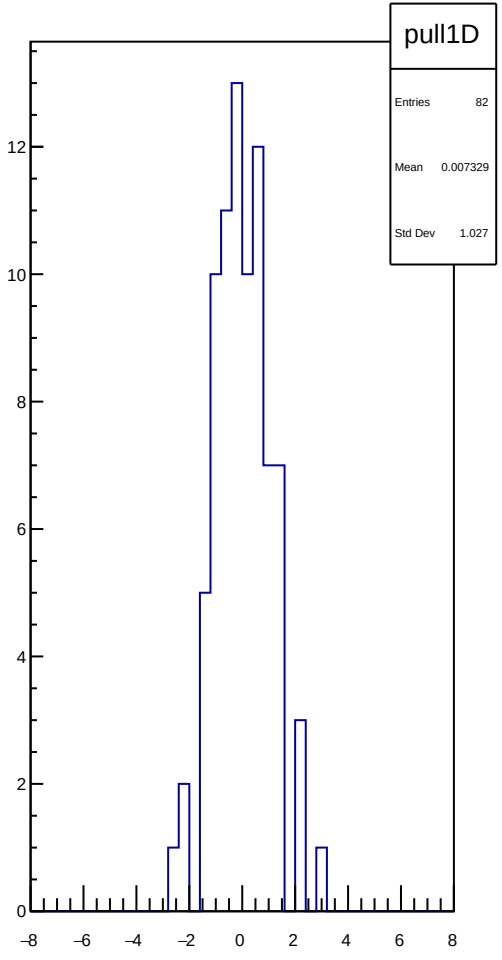

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1.393e+04 / 81
p0 3545 ± 2.796
4400
4200
4000
3800
3600
3400
3200
3000

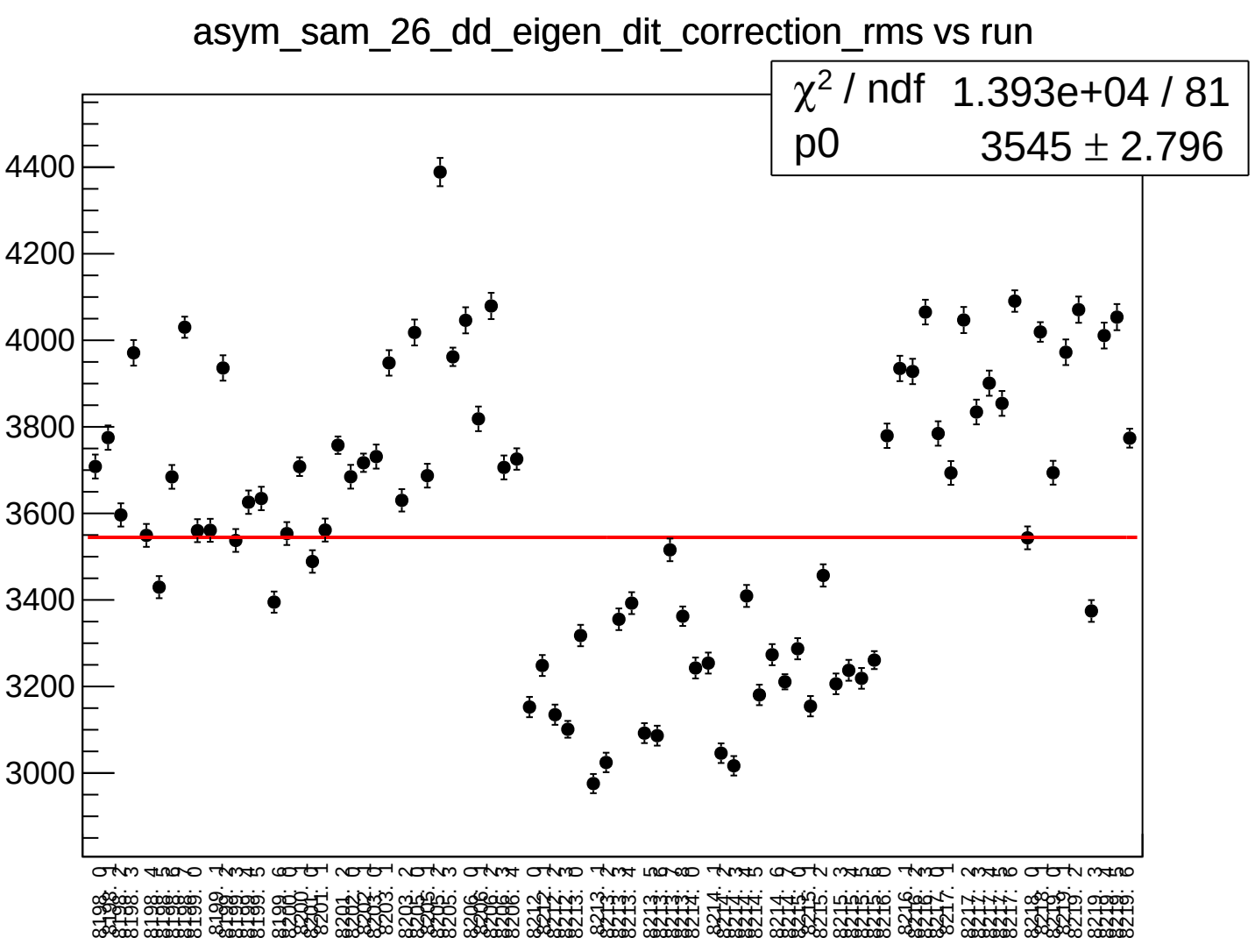

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 104.2 / 81
p0 134.2 ± 243
pull
Entries 82
Mean −78.82
Std Dev 0

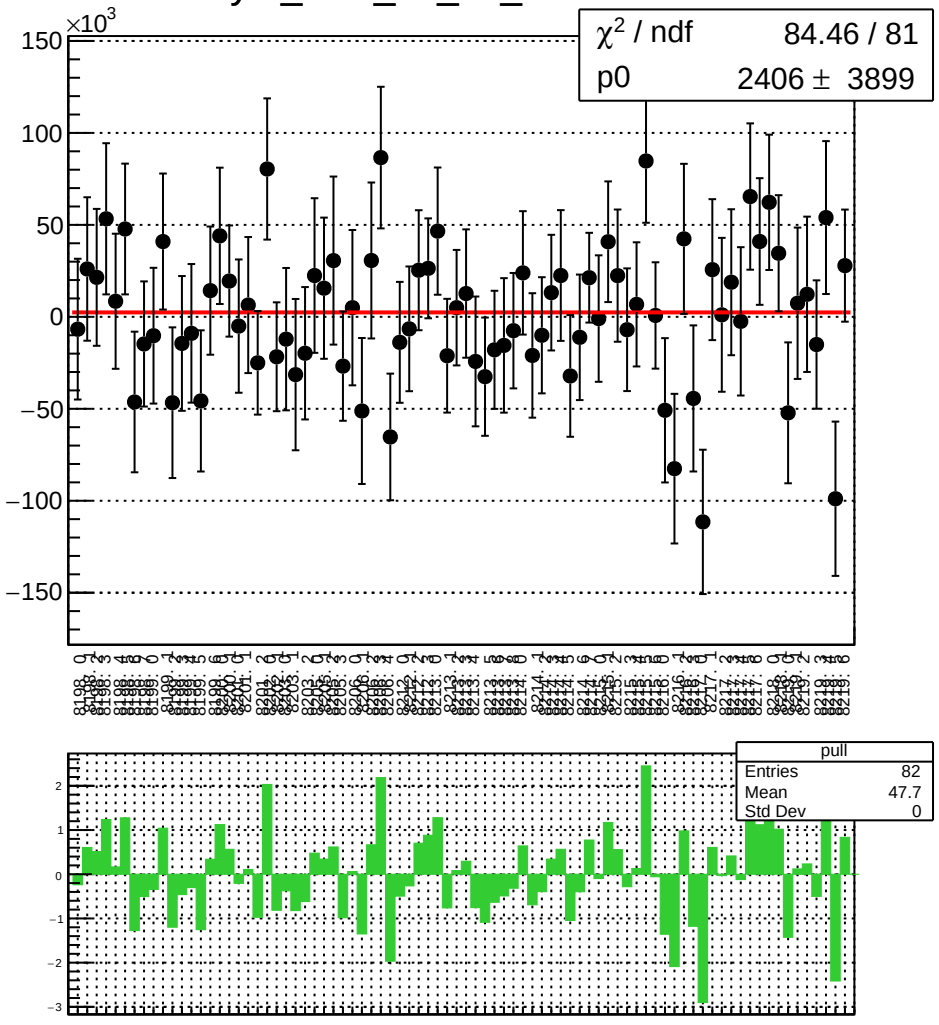

pull1D
Entries 82
Mean 0.03103
Std Dev 1.127

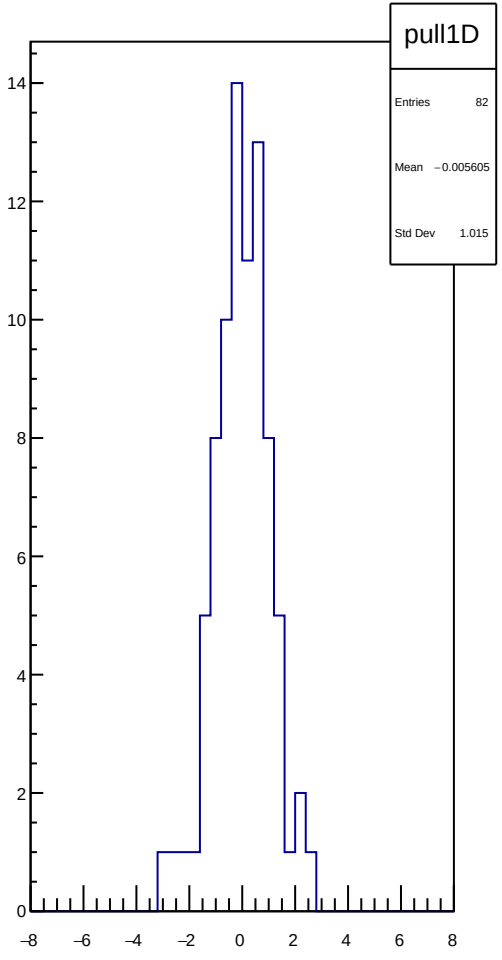

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 2012 / 81
p0 218.6 ± 0.1718
235
230
225
220
215
210
205
200

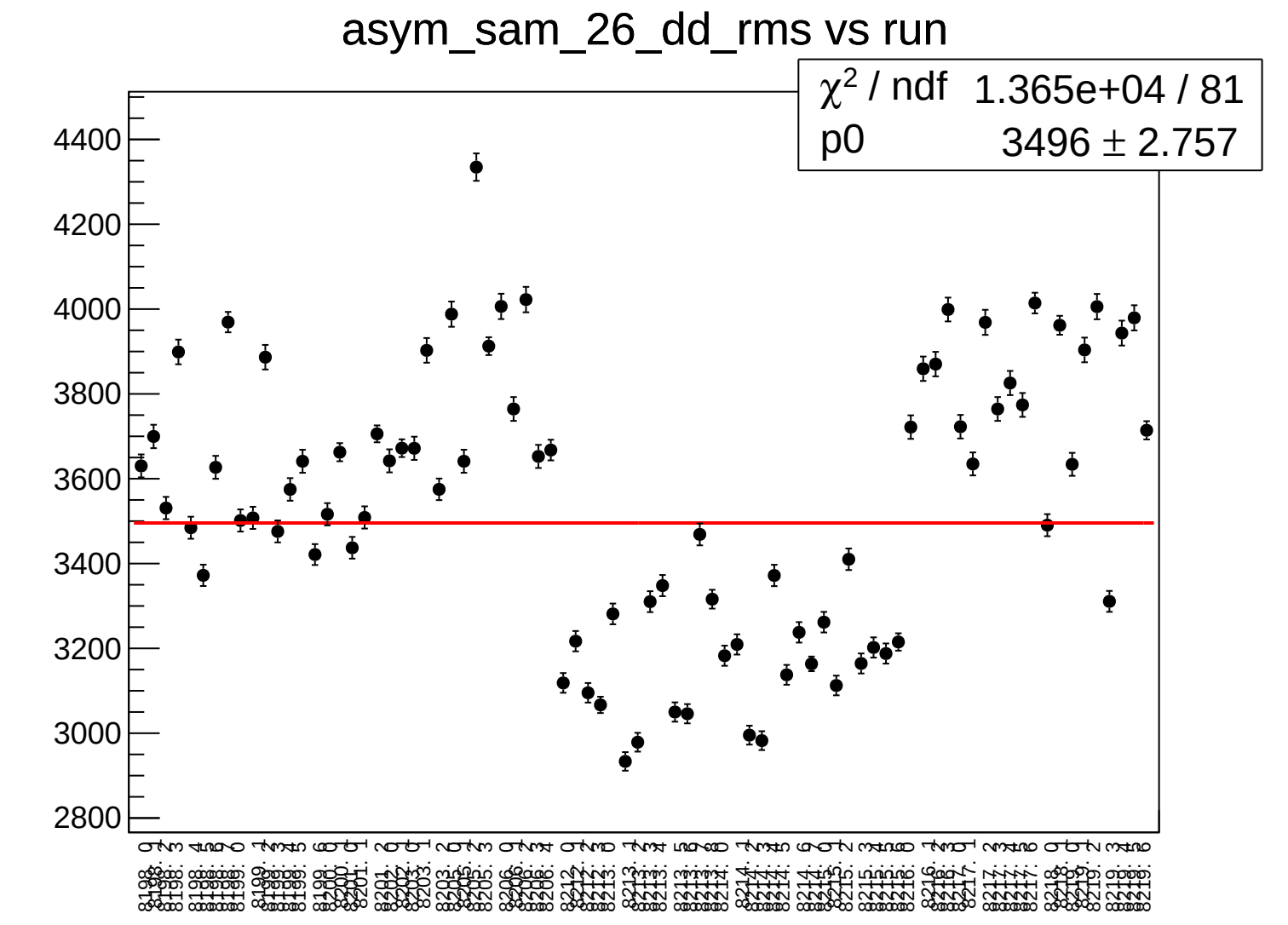

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.44 / 81
p0 −2267 ± 3954
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 13.67
Std Dev 0
3
2
1
0
−1
−2

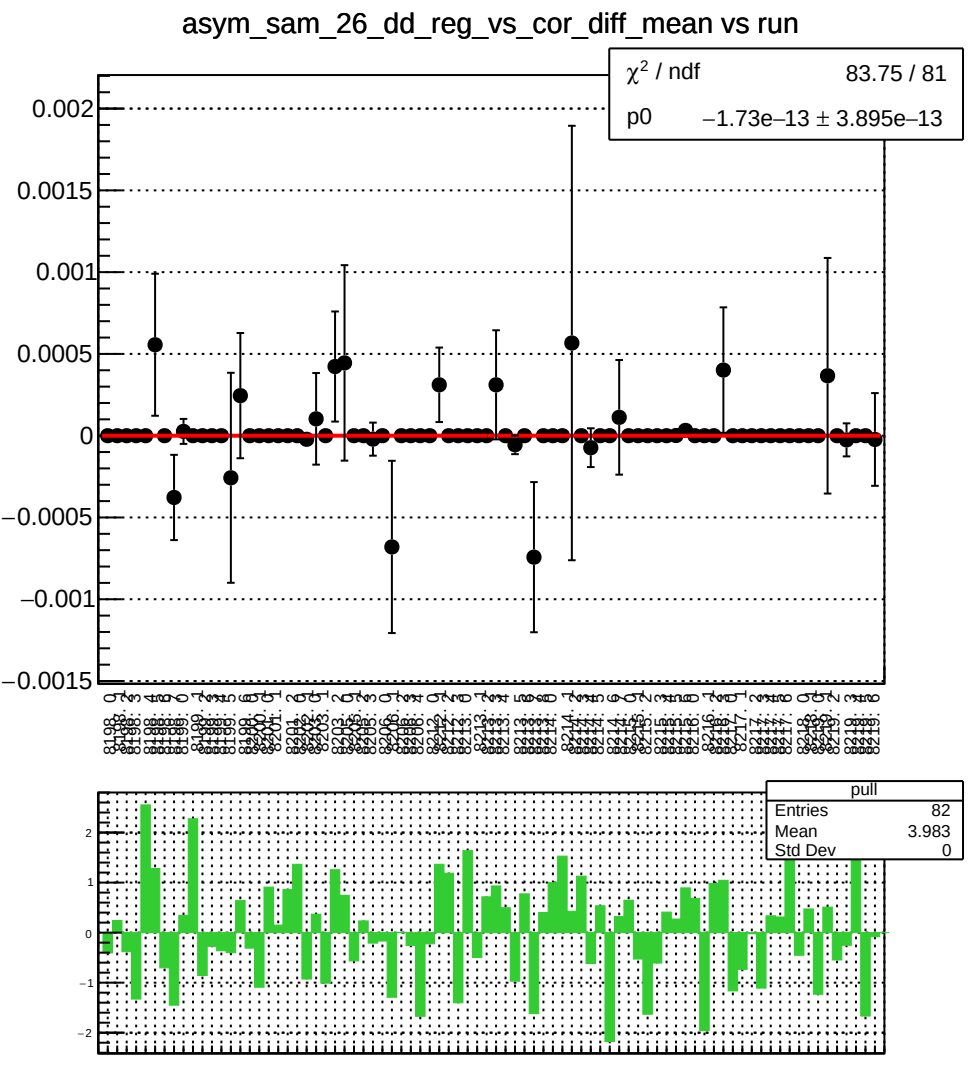

pull1D
Entries 82
Mean 0.007329
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

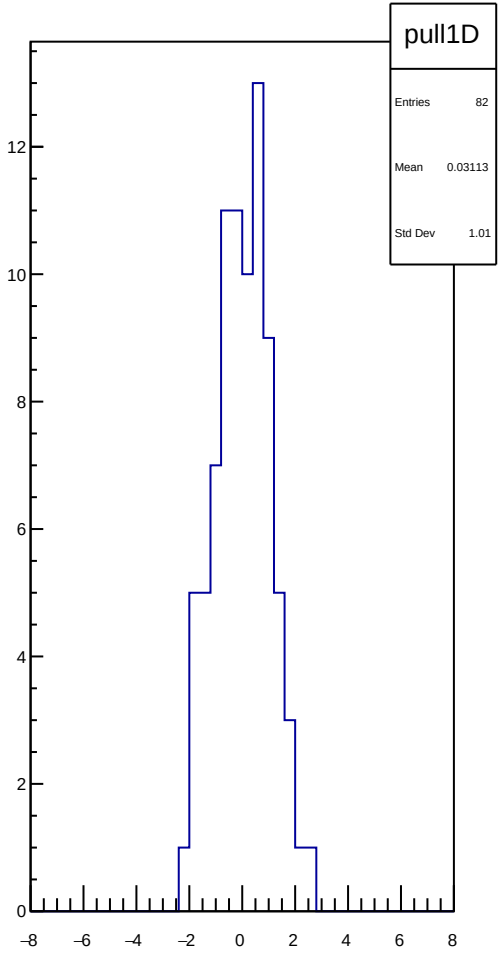

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.393e+04 / 81
p0 3545 ± 2.796
4400
4200
4000
3800
3600
3400
3200
3000

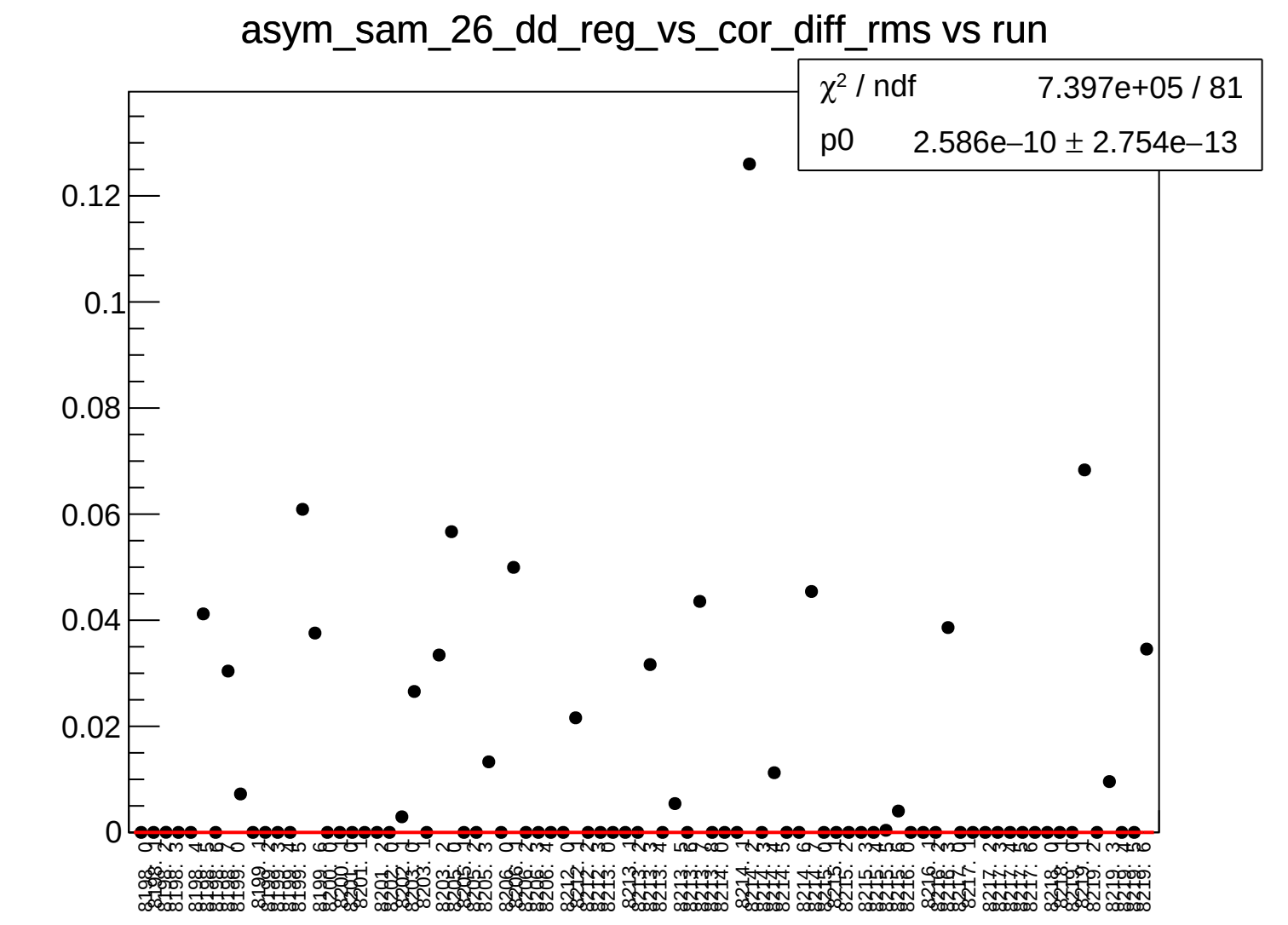

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 84.46 / 81
p0 2406 ± 3899
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 47.7
Std Dev 0
2
1
0
−1
−2
−3

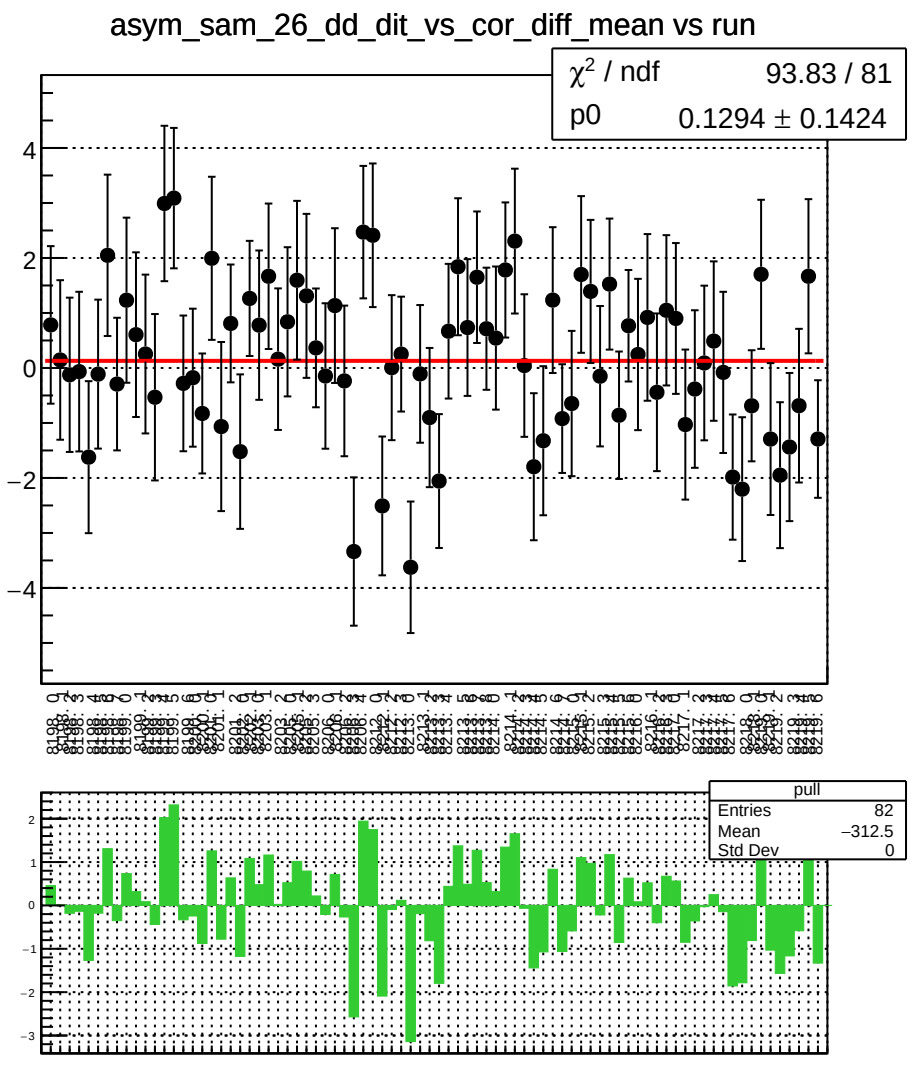

pull1D
Entries 82
Mean −0.005605
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

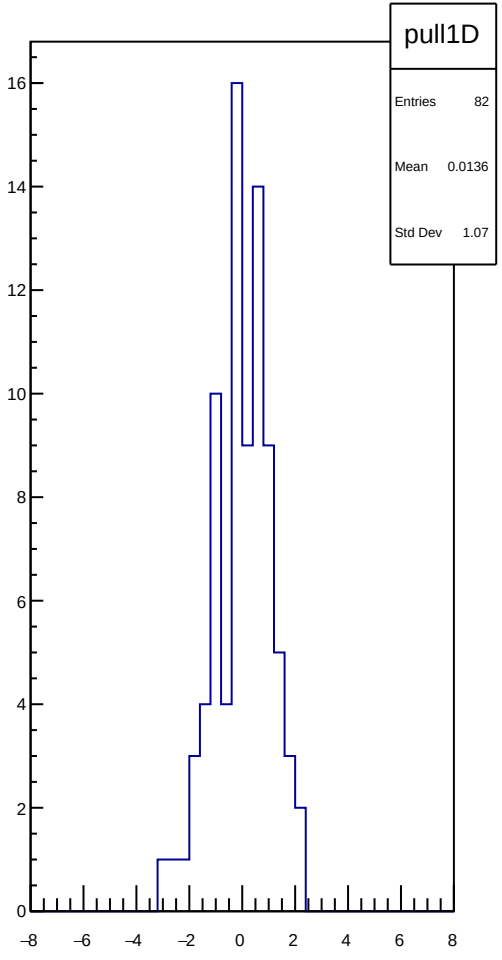

asym_sam_26_dd_rms vs run
χ² / ndf 1.365e+04 / 81
p0 3496 ± 2.757
4400
4200
4000
3800
3600
3400
3200
3000
2800

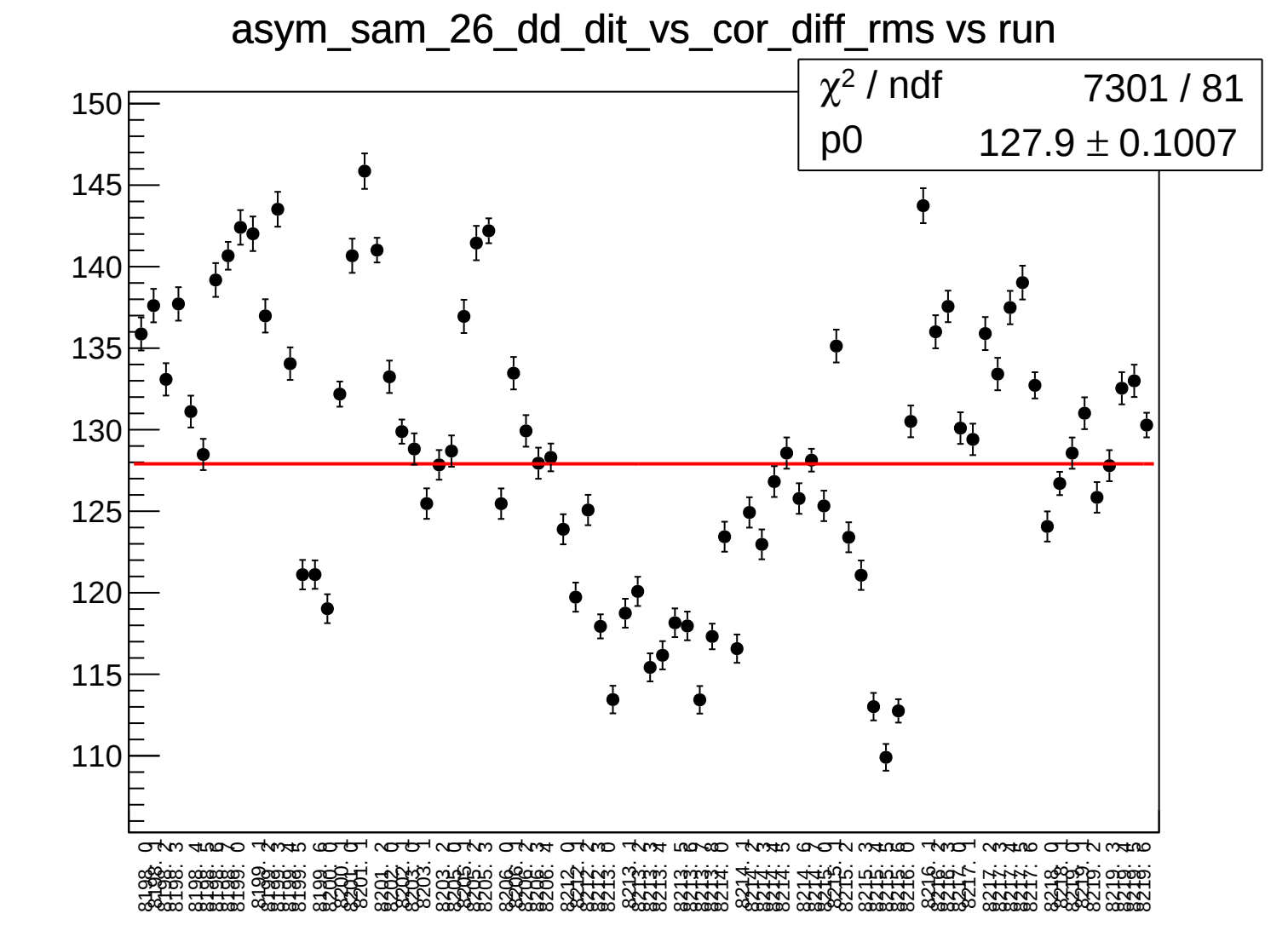

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.75 / 81
p0 −1.73e−13 ± 3.895e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean 3.983
Std Dev 0
2
1
0
−1
−2

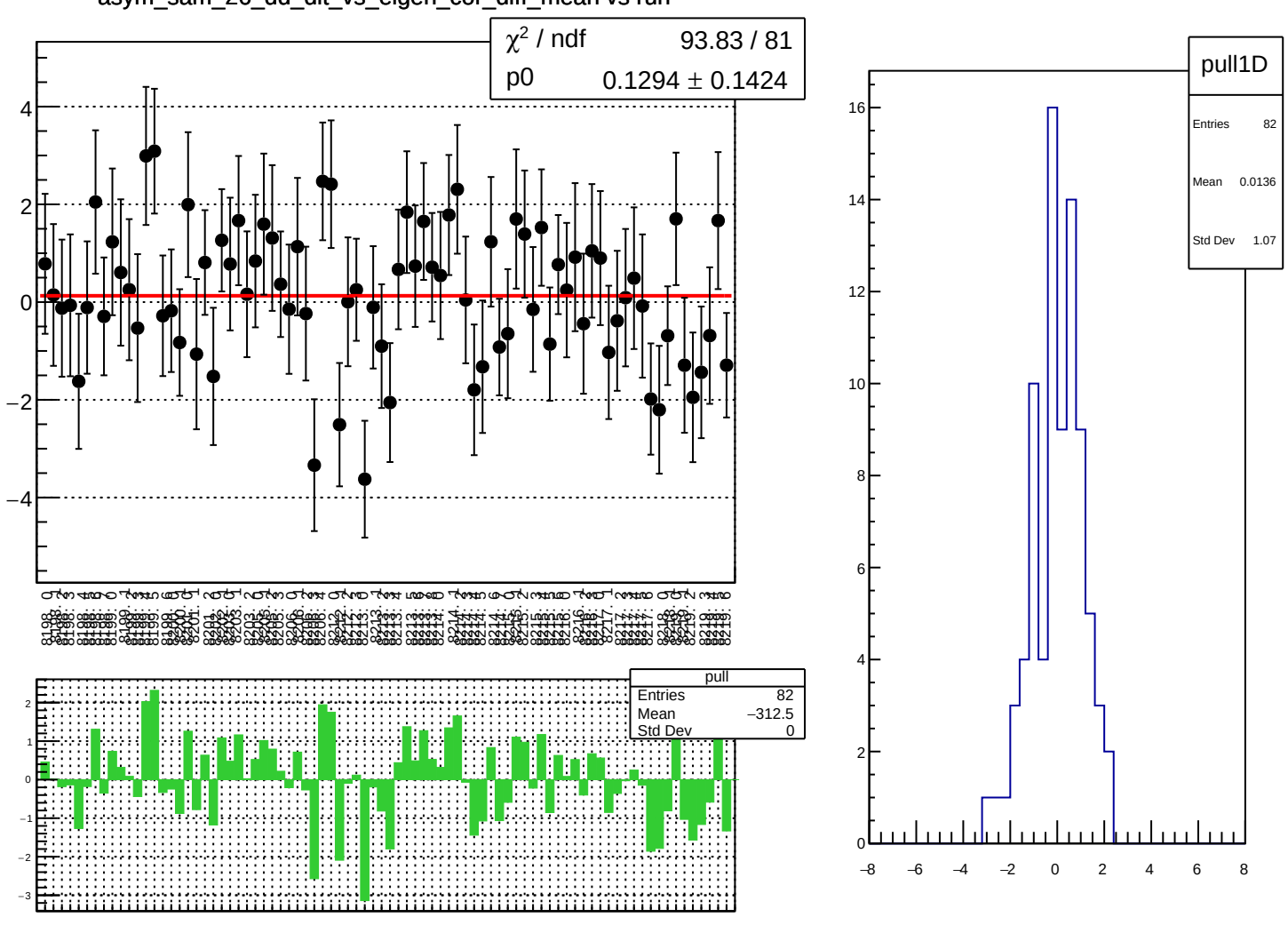

pull1D
Entries 82
Mean 0.03113
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

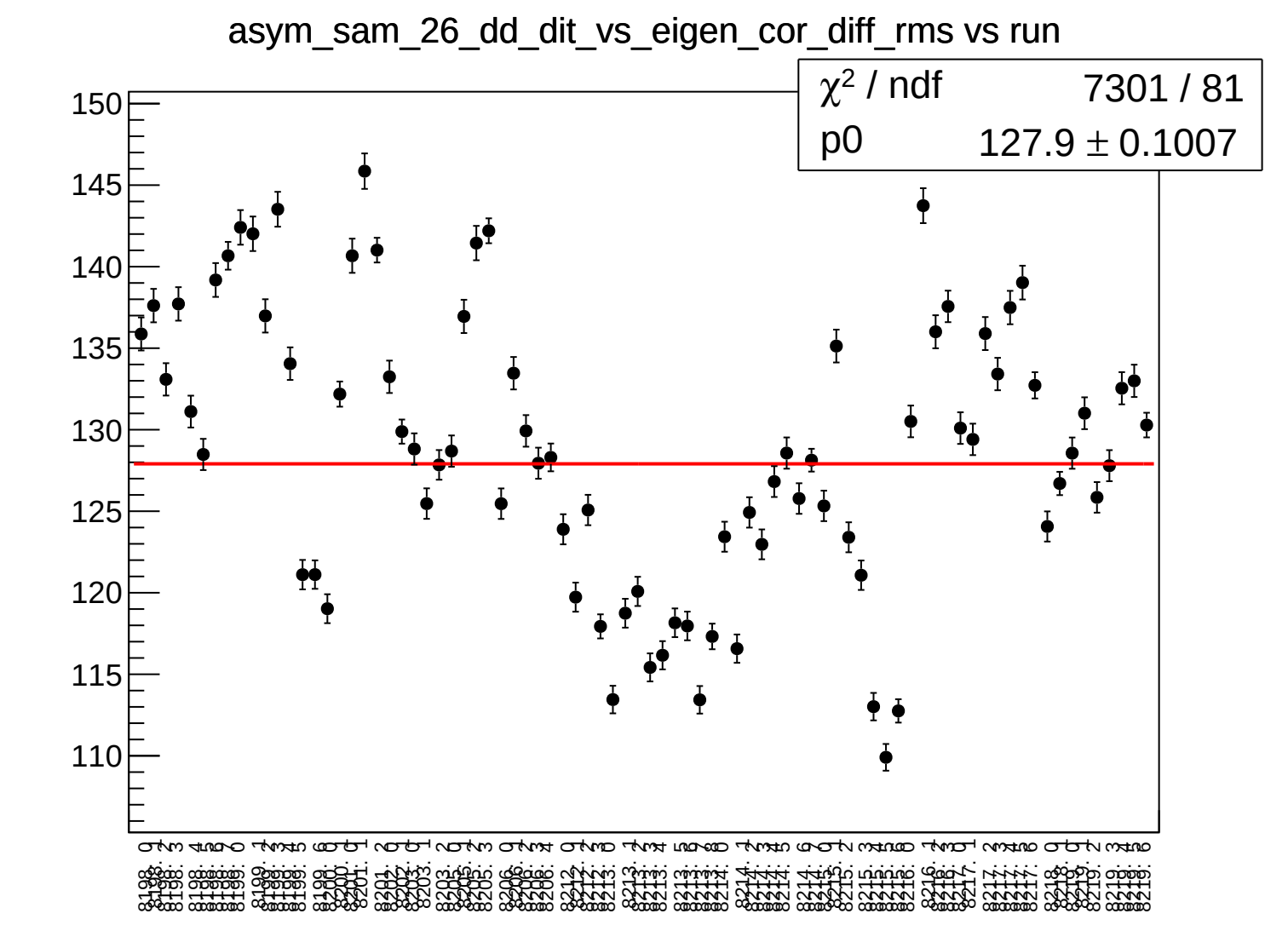

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.397e+05 / 81
p0 2.586e−10 ± 2.754e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

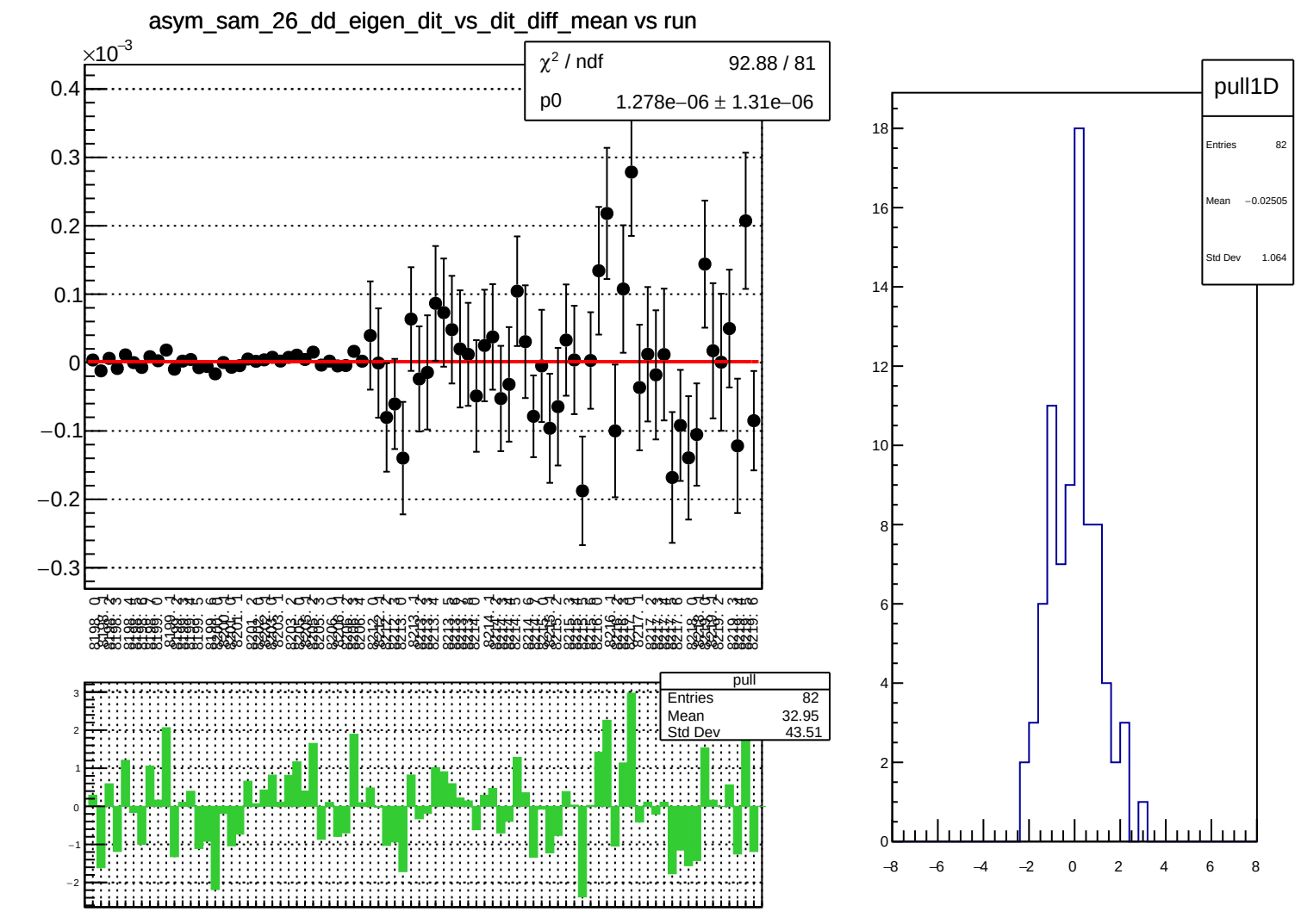

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.83 / 81
p0 0.1294 ± 0.1424
pull
Entries 82
Mean −312.5
Std Dev 0

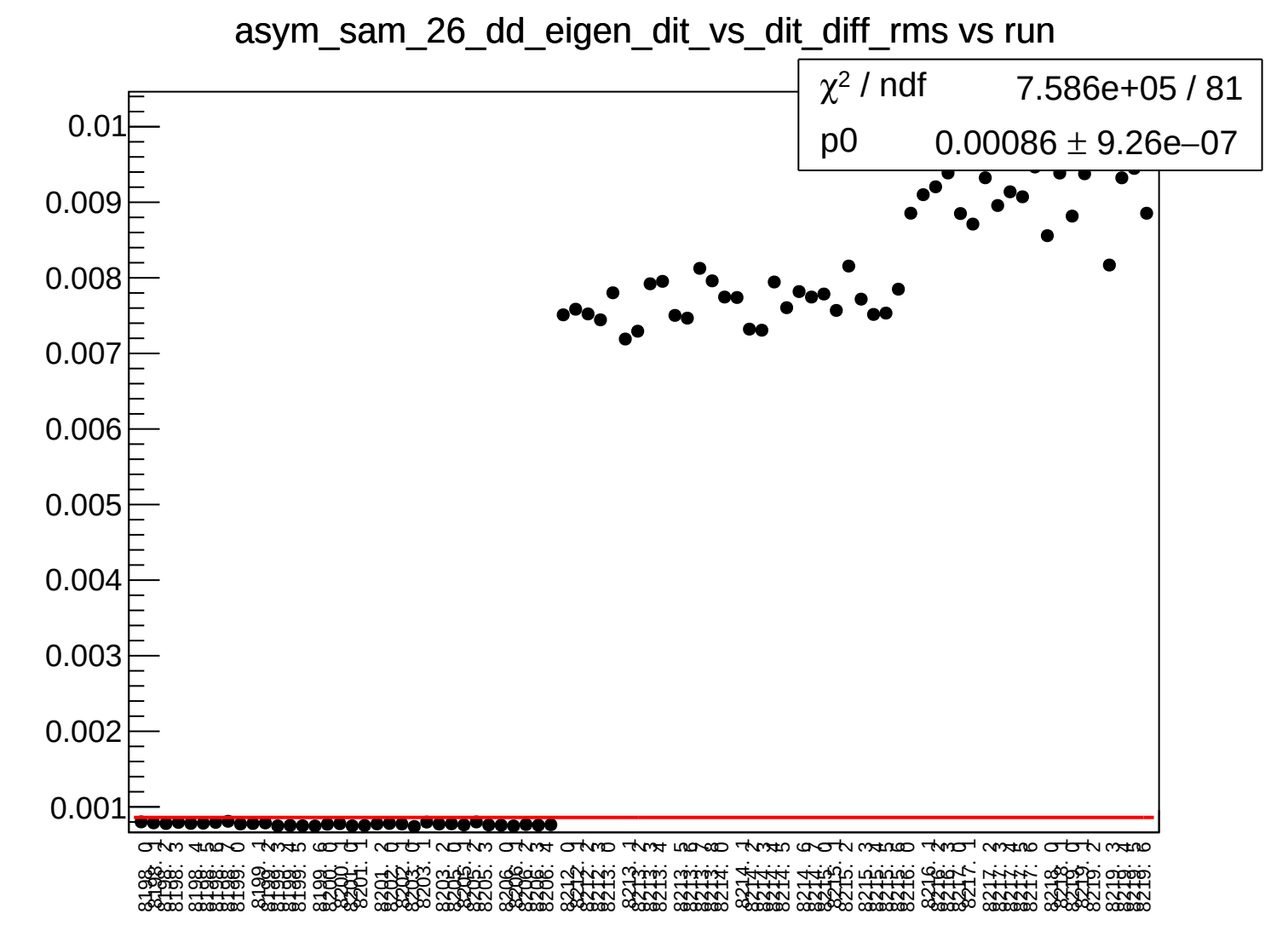

pull1D
Entries 82
Mean 0.0136
Std Dev 1.07

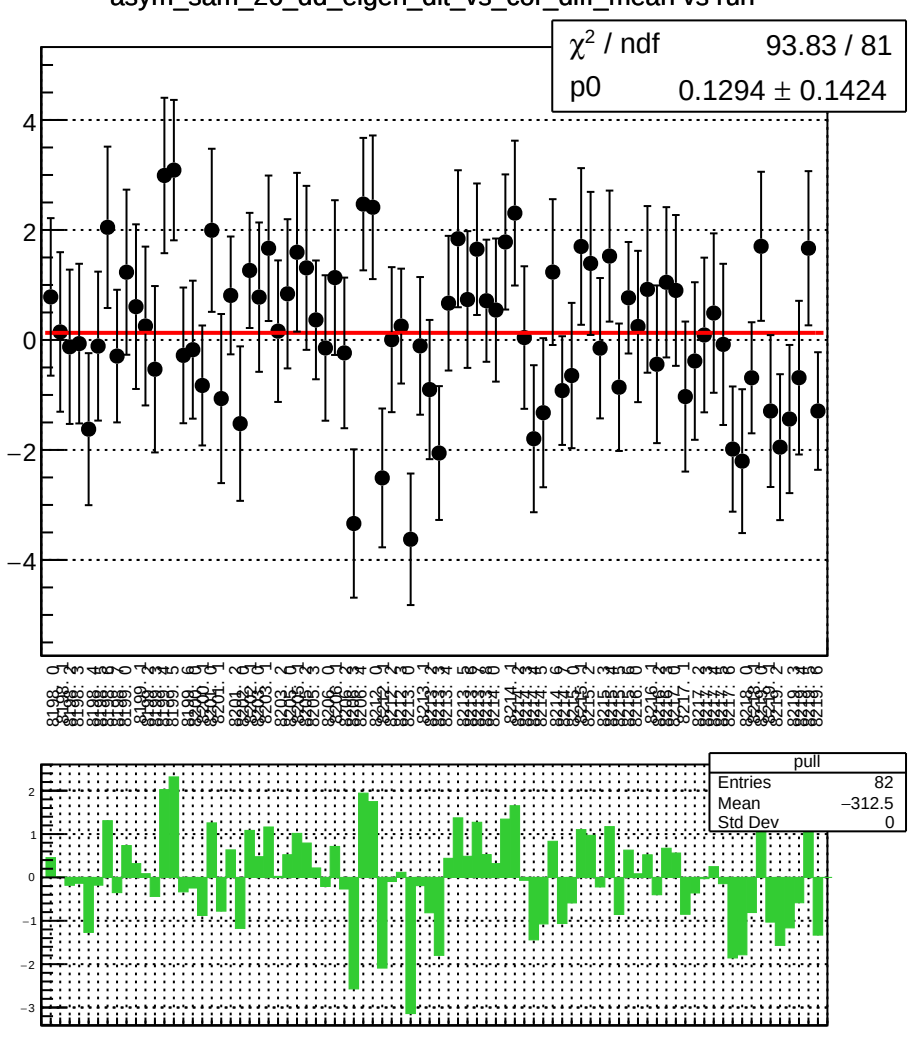

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7301 / 81
p0 127.9 ± 0.1007
150
145
140
135
130
125
120
115
110

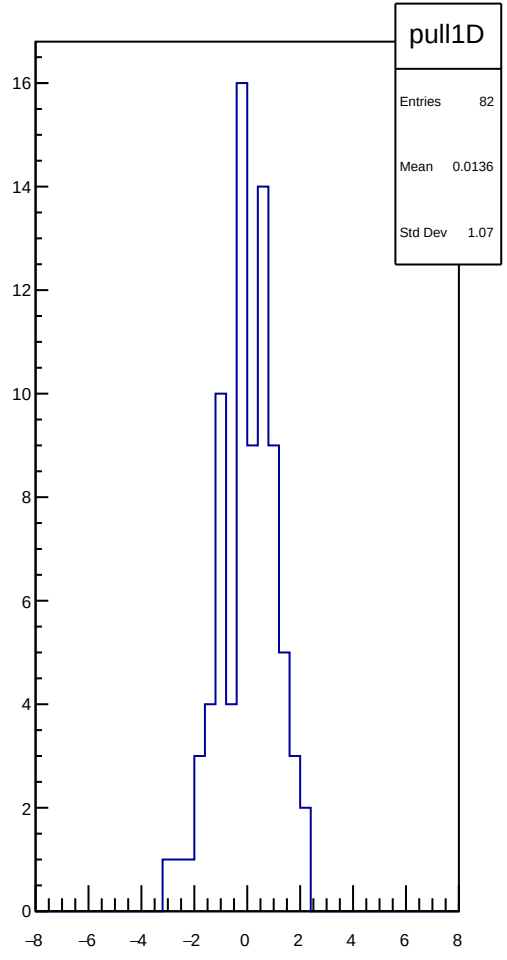

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.83 / 81
p0 0.1294 ± 0.1424
pull
Entries 82
Mean −312.5
Std Dev 0
pull1D
Entries 82
Mean 0.0136
Std Dev 1.07

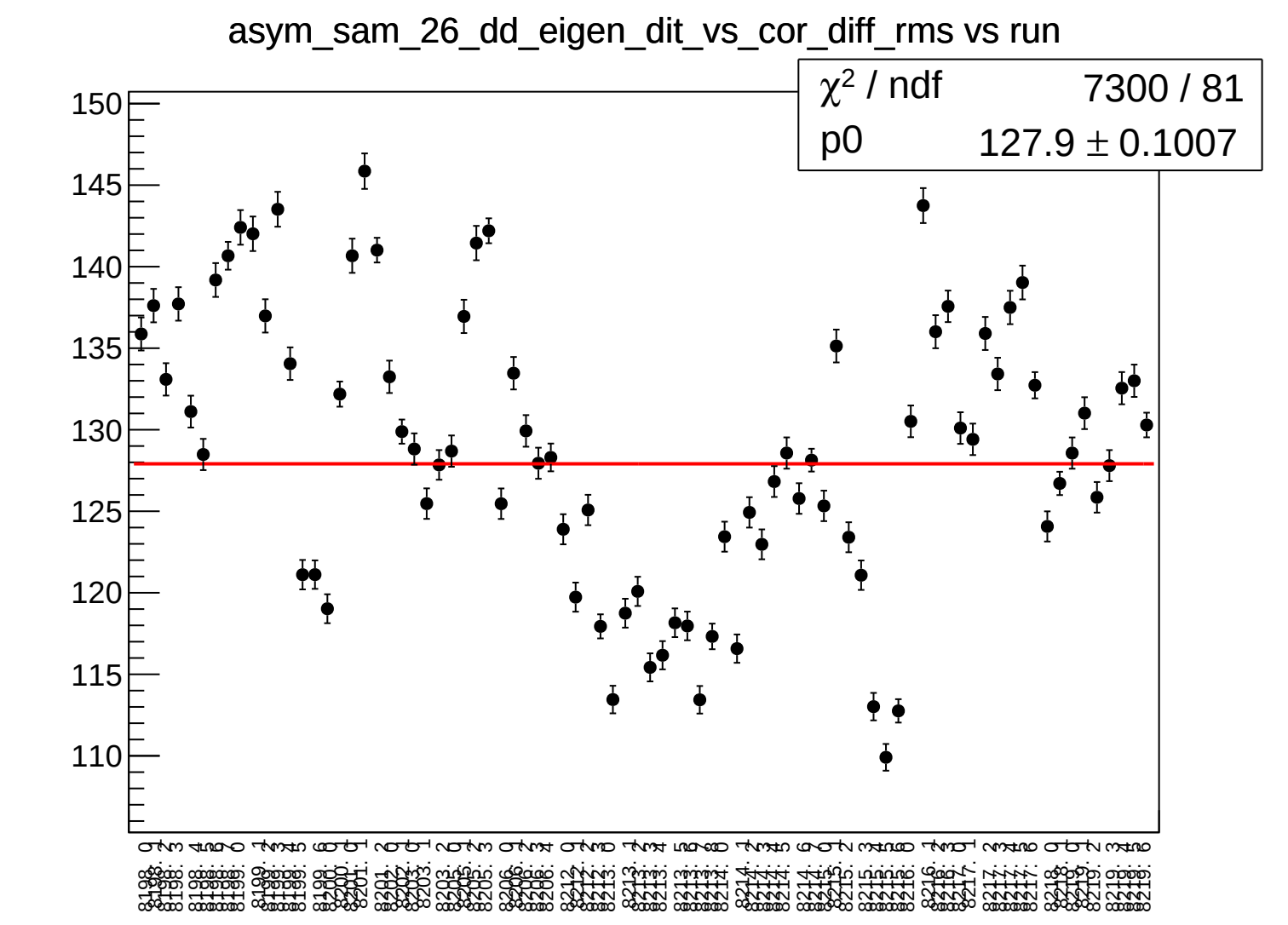

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7301 / 81
p0 127.9 ± 0.1007
150
145
140
135
130
125
120
115
110

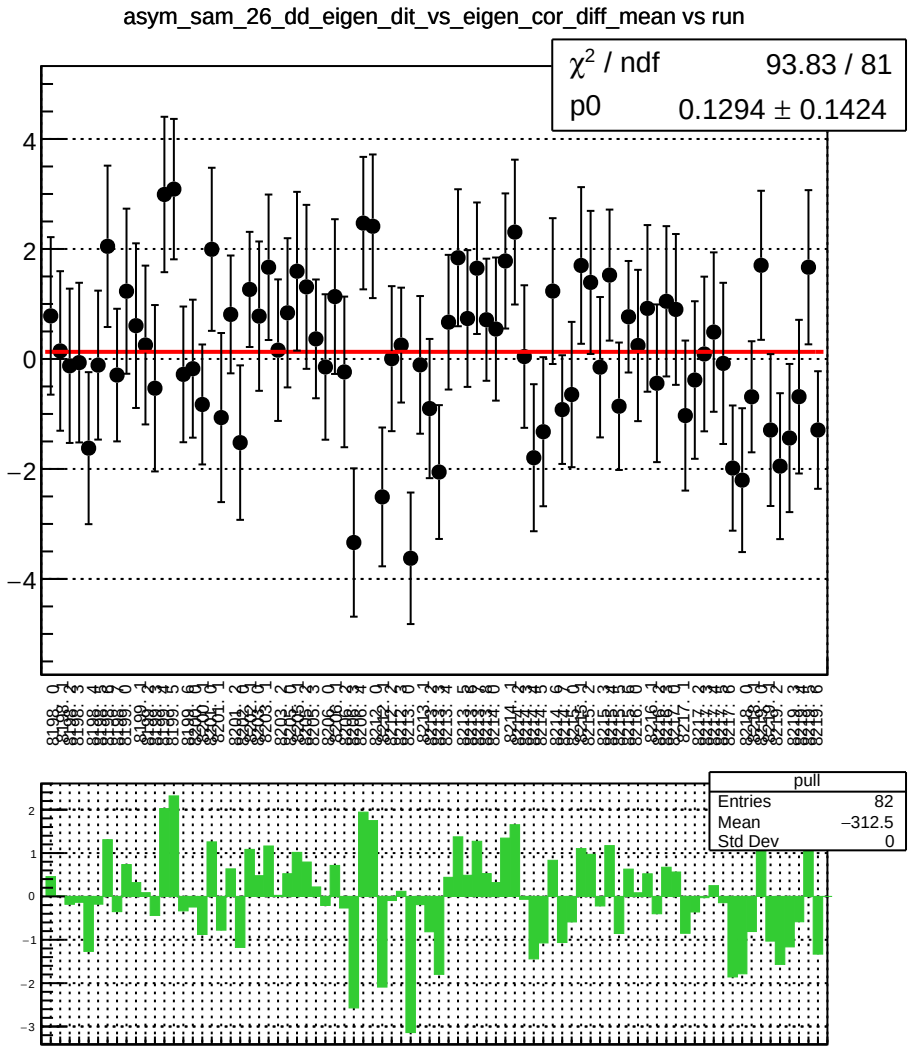

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.88 / 81
p0 1.278e−06 ± 1.31e−06
pull
Entries 82
Mean 32.95
Std Dev 43.51
pull1D
Entries 82
Mean −0.02505
Std Dev 1.064

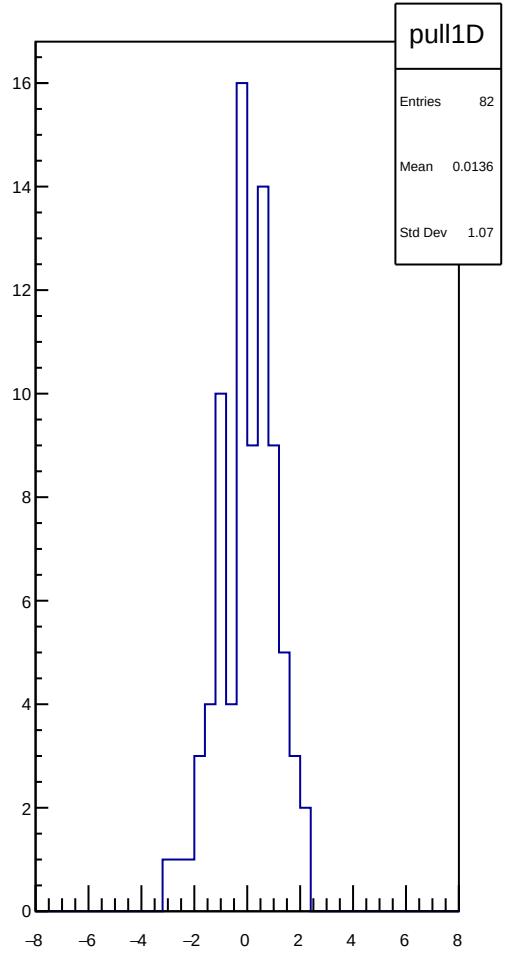

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.586e+05 / 81
p0 0.00086 ± 9.26e−07
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

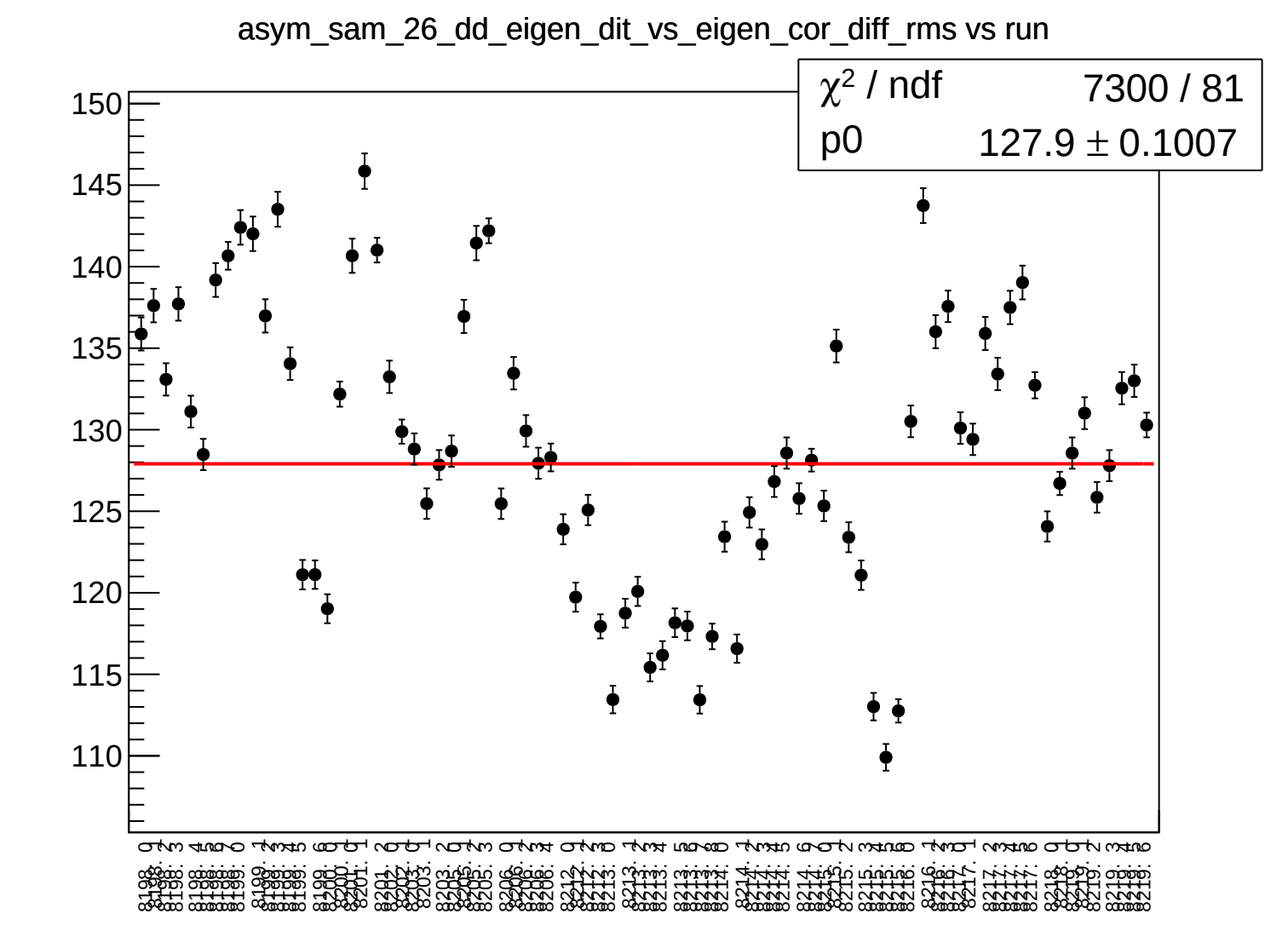

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.83 / 81
p0 0.1294 ± 0.1424
pull
Entries 82
Mean −312.5
Std Dev 0

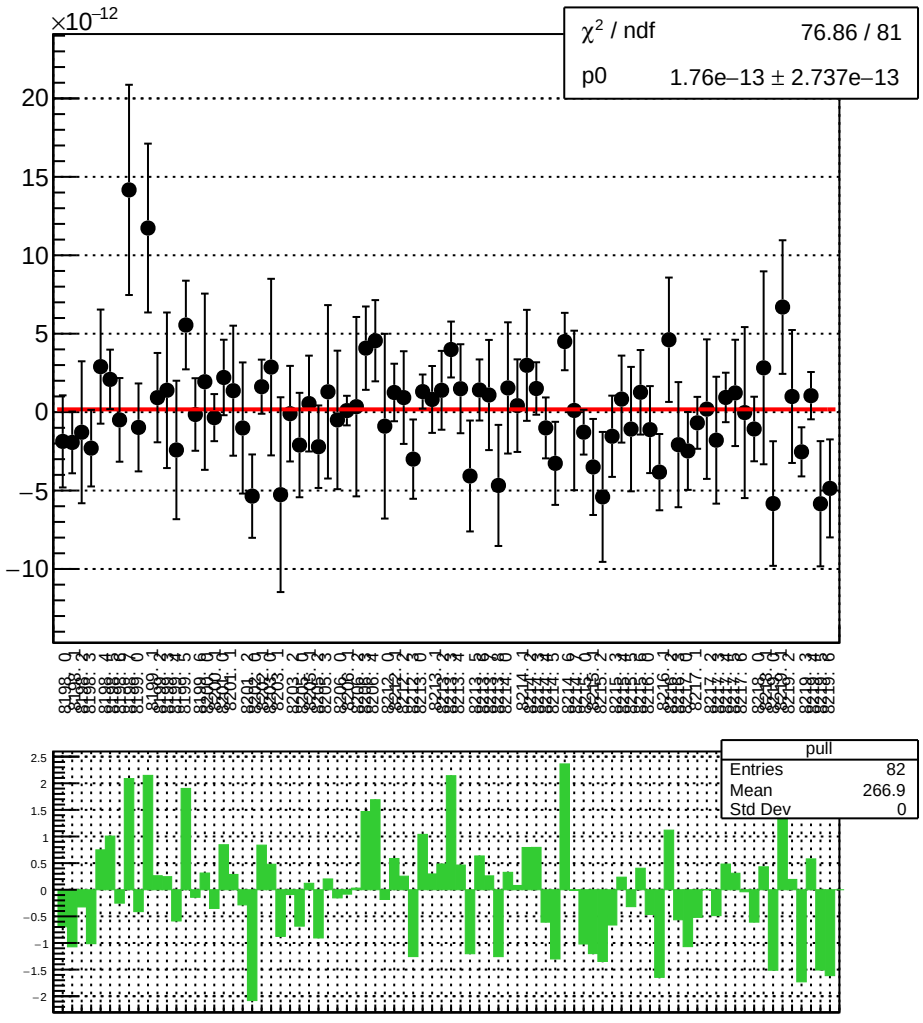

pull1D
Entries 82
Mean 0.0136
Std Dev 1.07

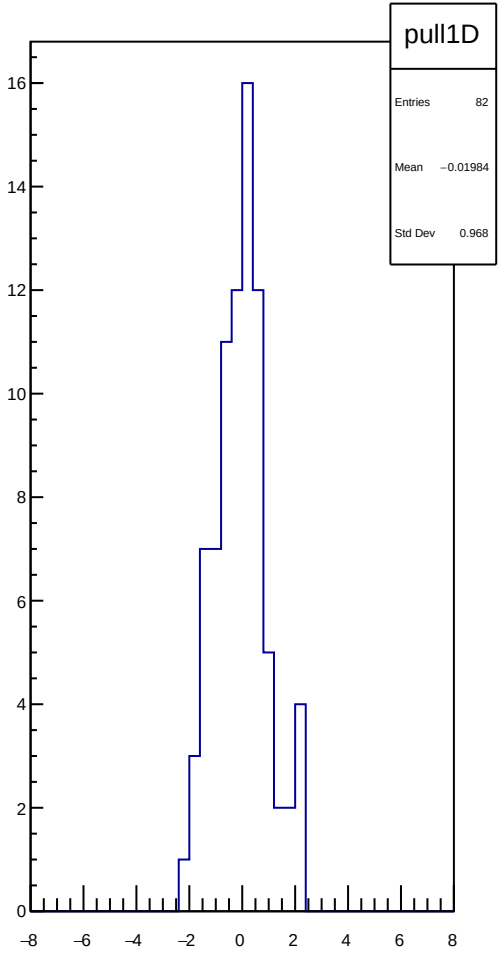

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7300 / 81
p0 127.9 ± 0.1007
150
145
140
135
130
125
120
115
110

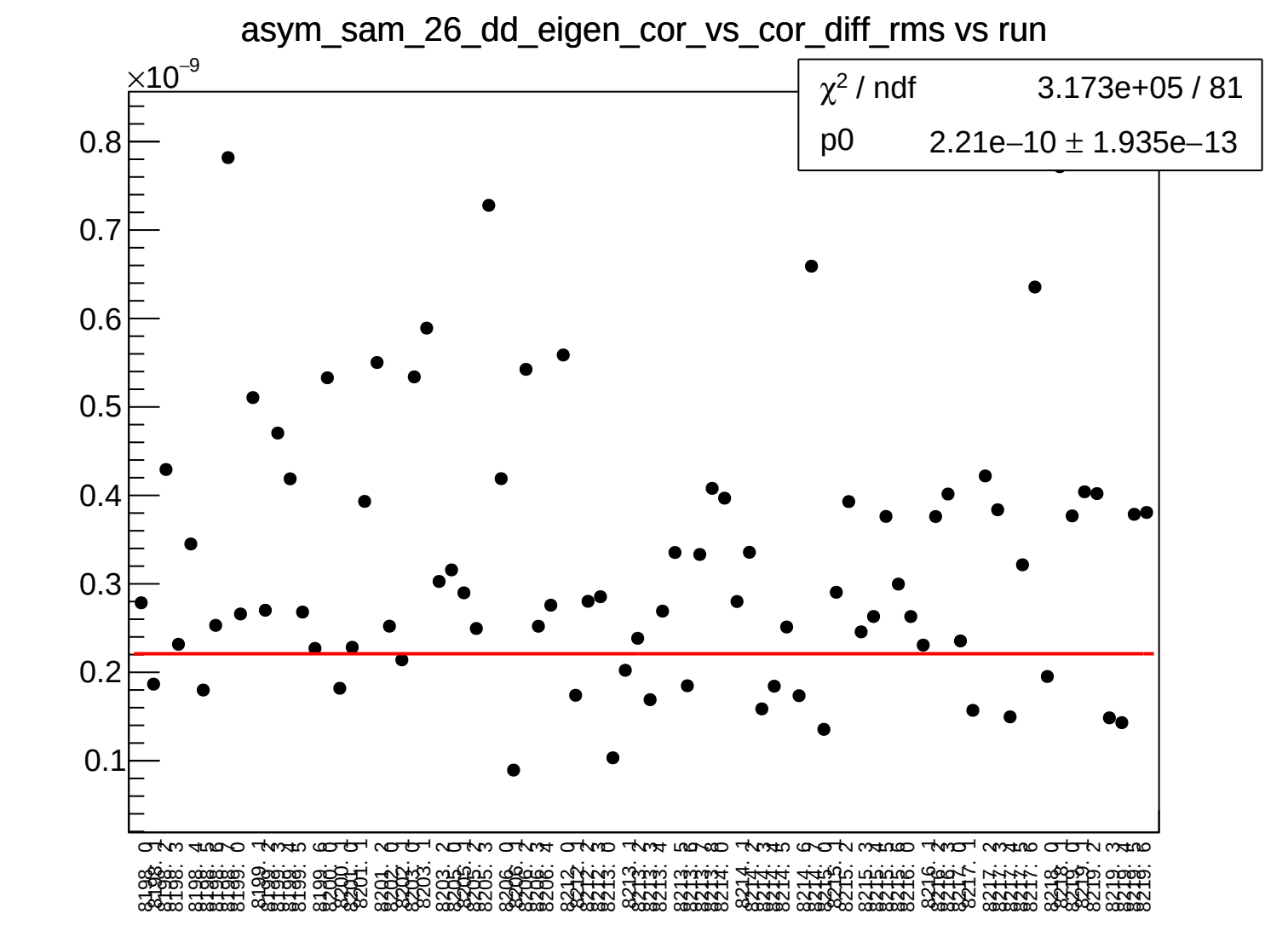

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.83 / 81
p0 0.1294 ± 0.1424
pull
Entries 82
Mean −312.5
Std Dev 0

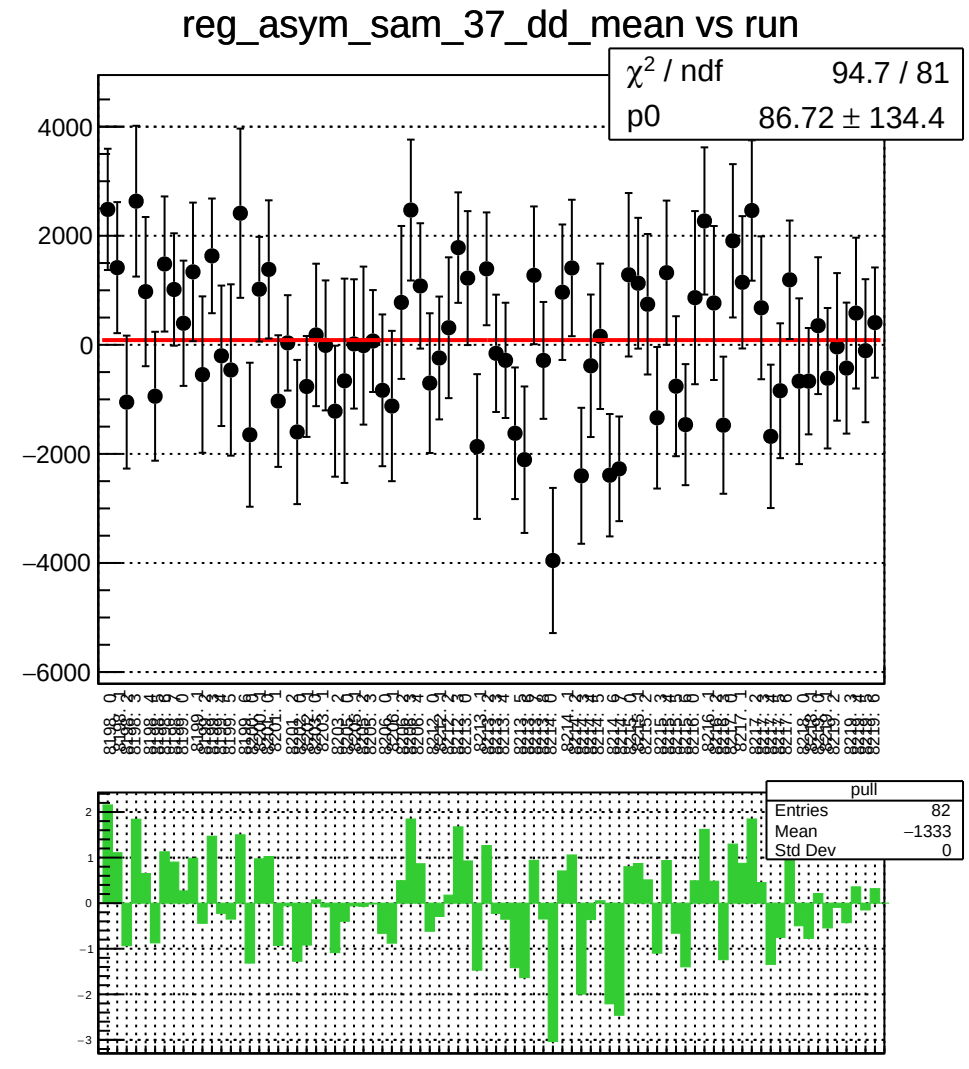

pull1D
Entries 82
Mean 0.0136
Std Dev 1.07

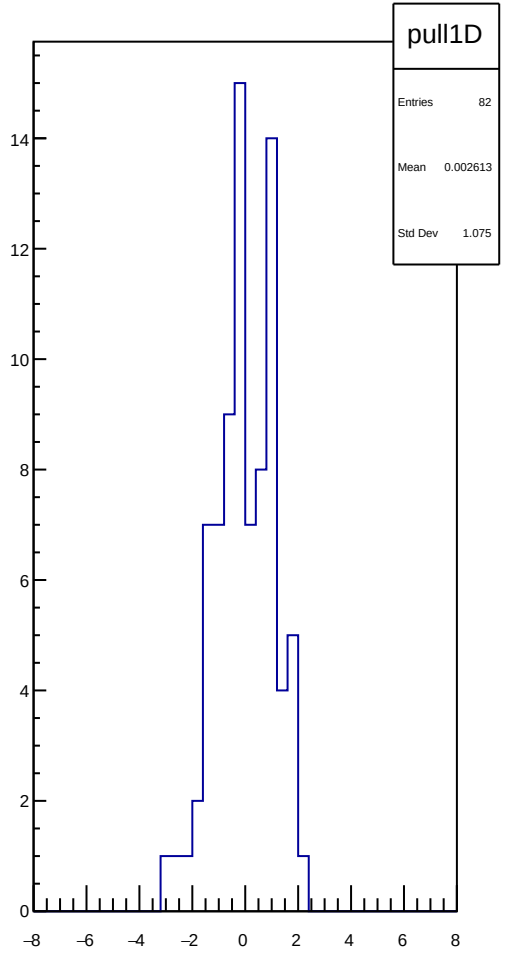

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7300 / 81
p0 127.9 ± 0.1007
150
145
140
135
130
125
120
115
110

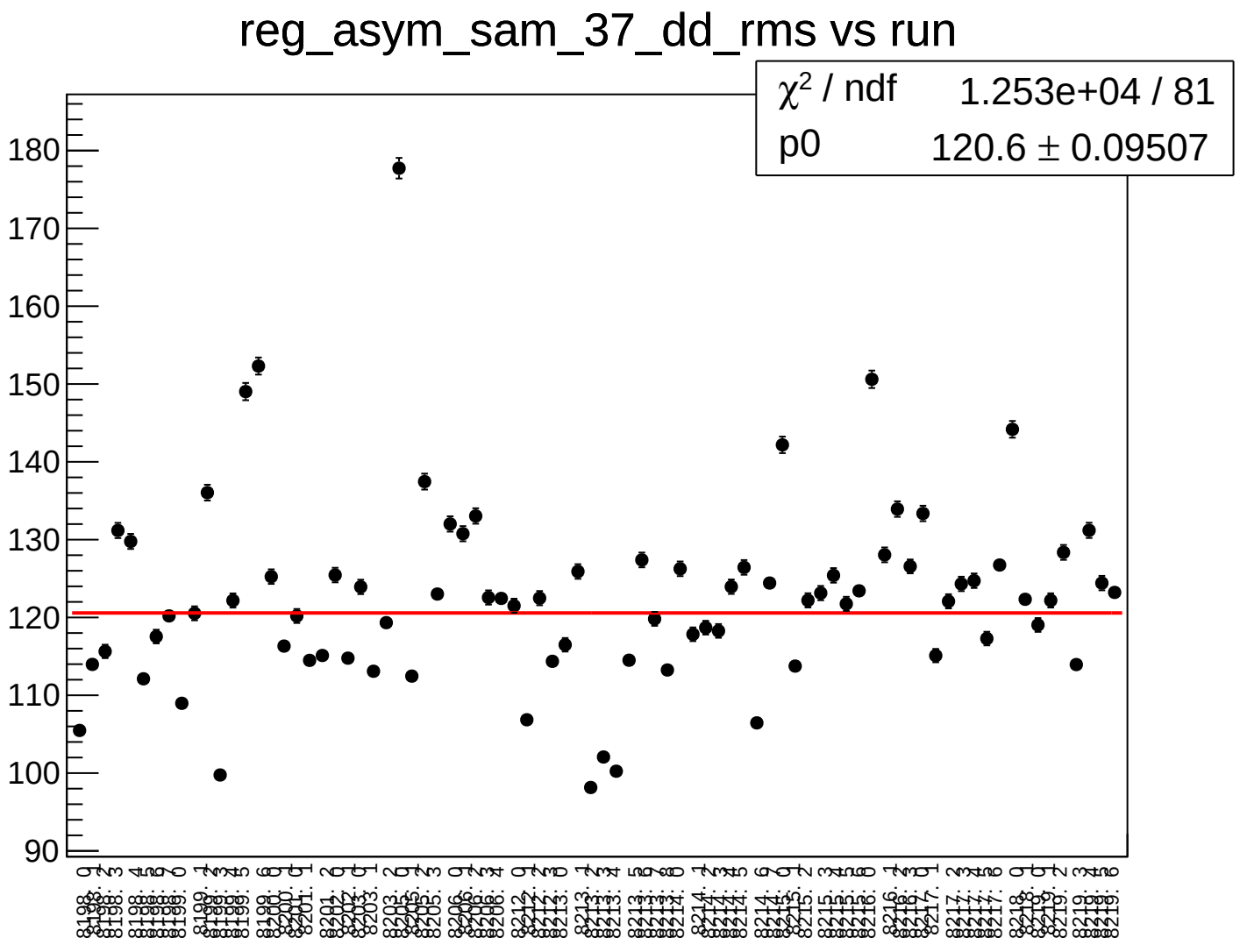

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.86 / 81
p0 1.76e−13 ± 2.737e−13
pull
Entries 82
Mean 266.9
Std Dev 0

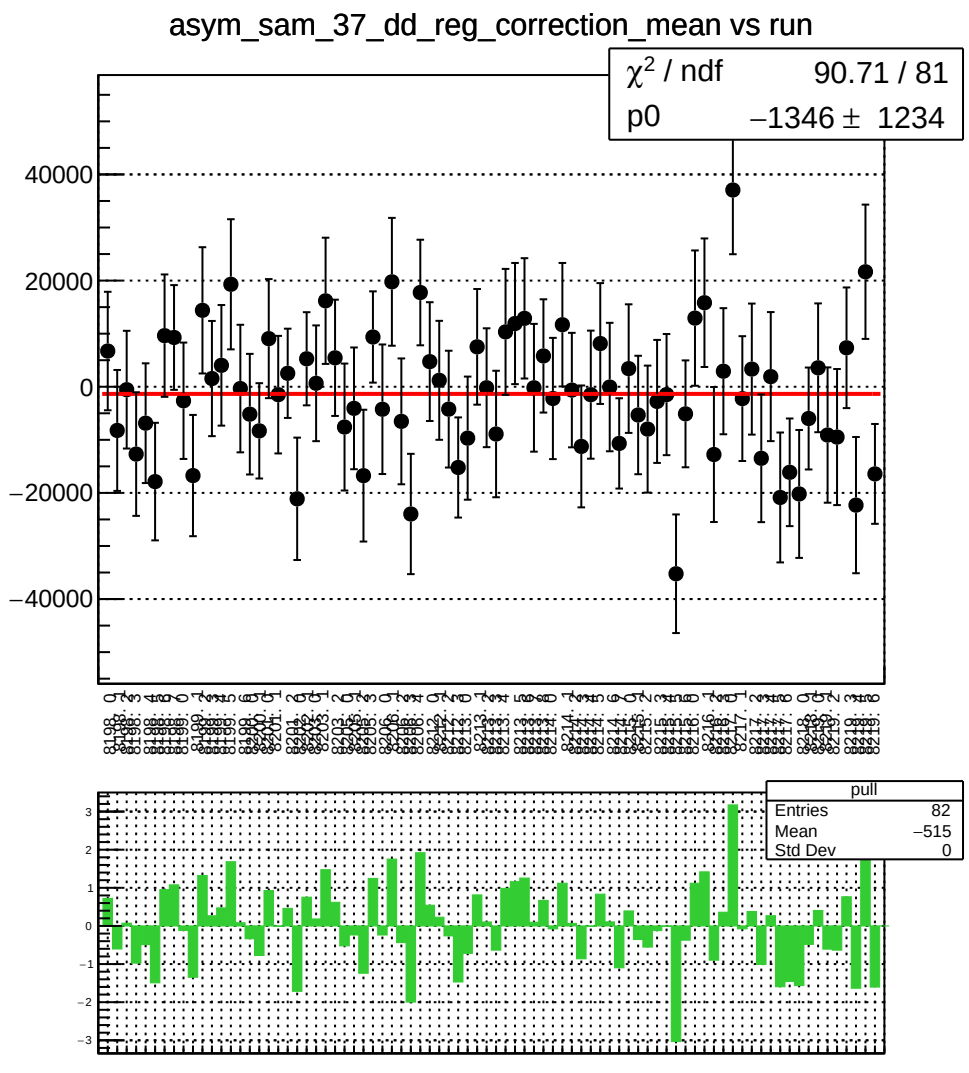

pull1D
Entries 82
Mean −0.01984
Std Dev 0.968

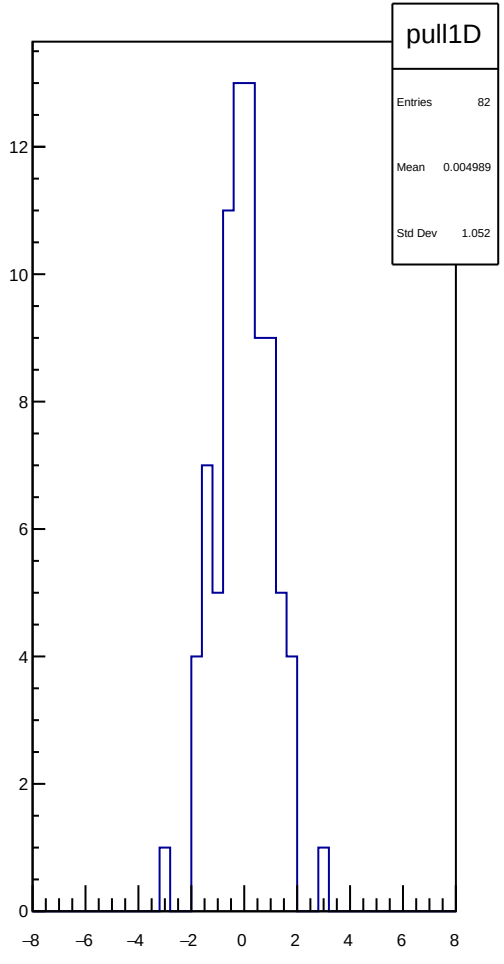

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.173e+05 / 81
p0 2.21e−10 ± 1.935e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

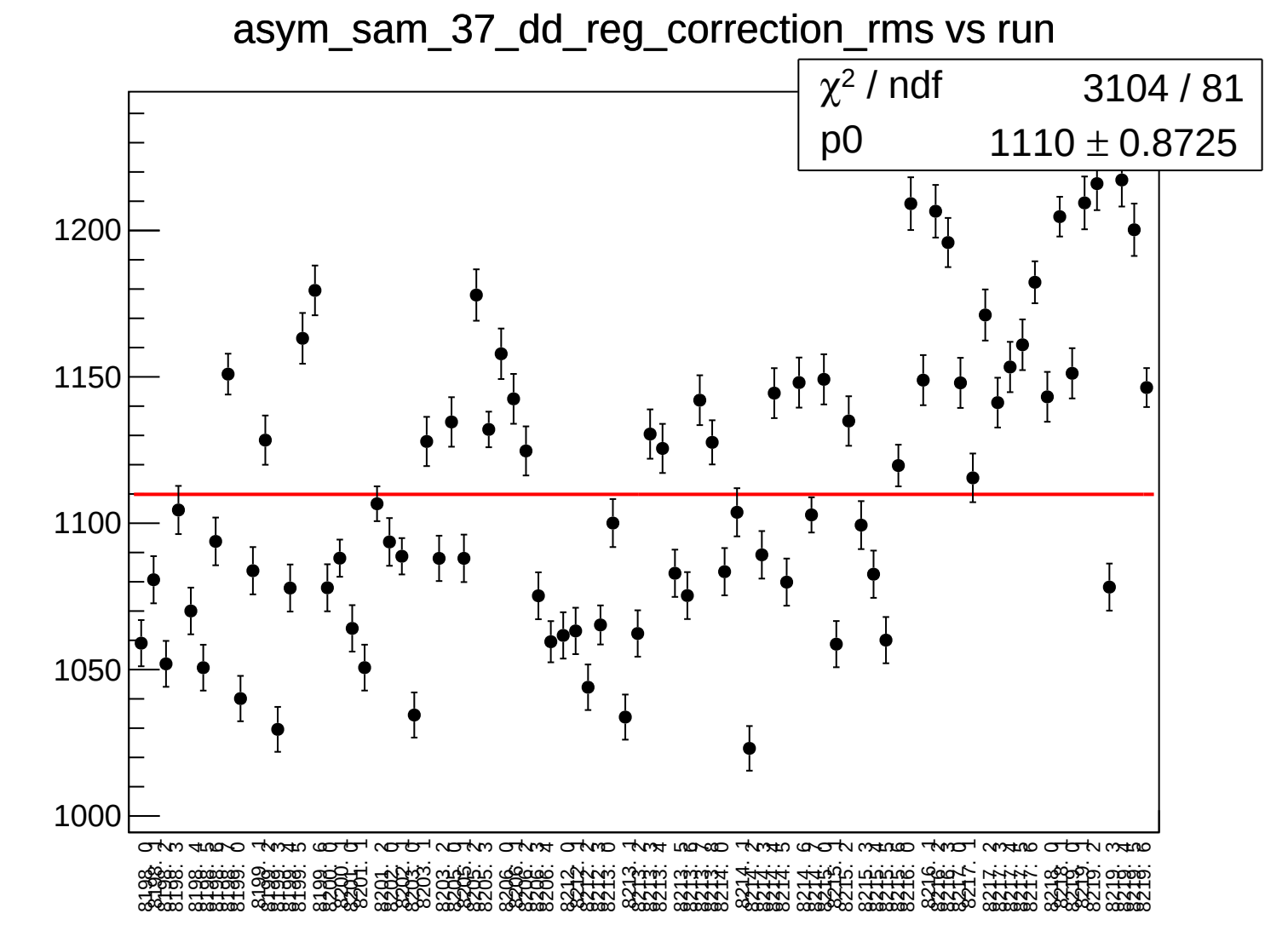

reg_asym_sam_37_dd_mean vs run
χ² / ndf 94.7 / 81
p0 86.72 ± 134.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −1333
Std Dev 0
2
1
0
−1
−2
−3

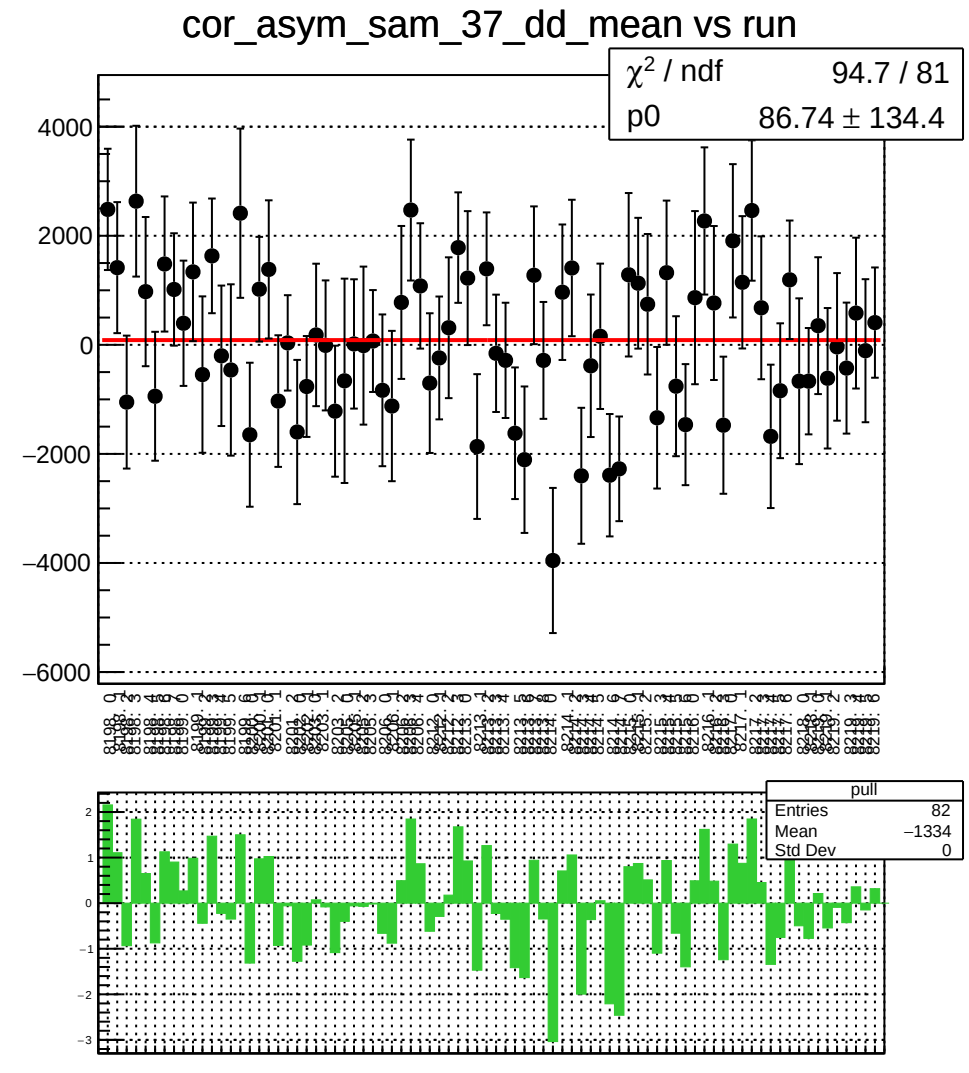

pull1D
Entries 82
Mean 0.002613
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

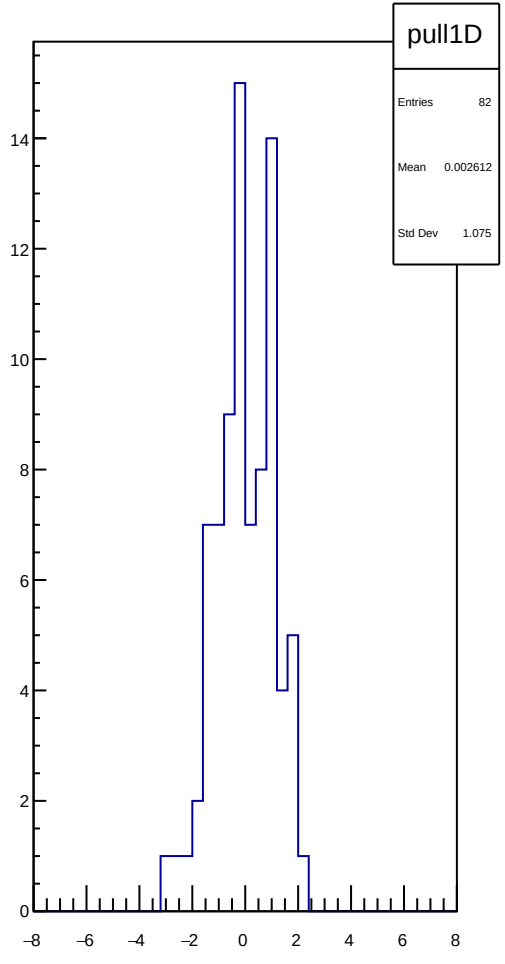

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.253e+04 / 81
p0 120.6 ± 0.09507
180
170
160
150
140
130
120
110
100
90

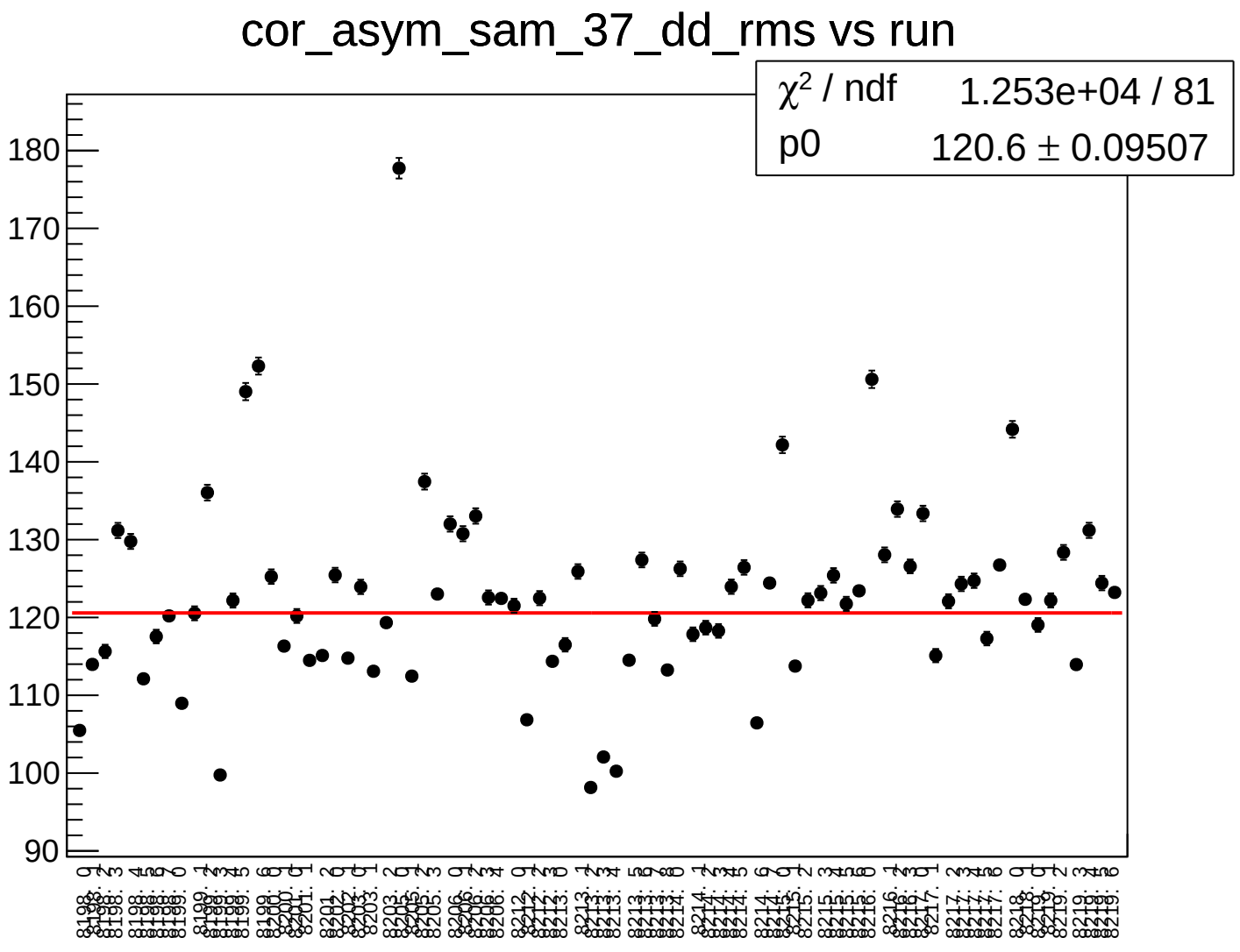

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 90.71 / 81
p0 −1346 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −515
Std Dev 0
3
2
1
0
−1
−2
−3

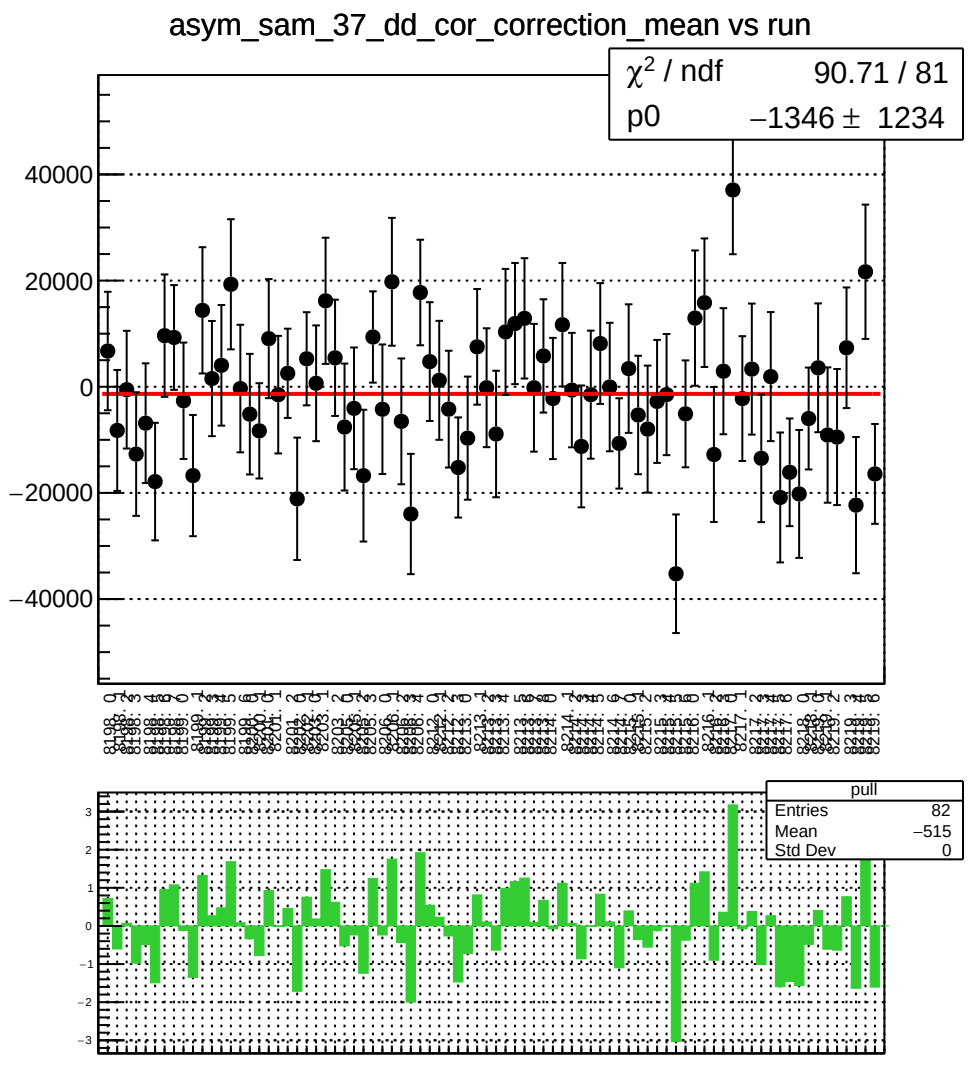

pull1D
Entries 82
Mean 0.004989
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

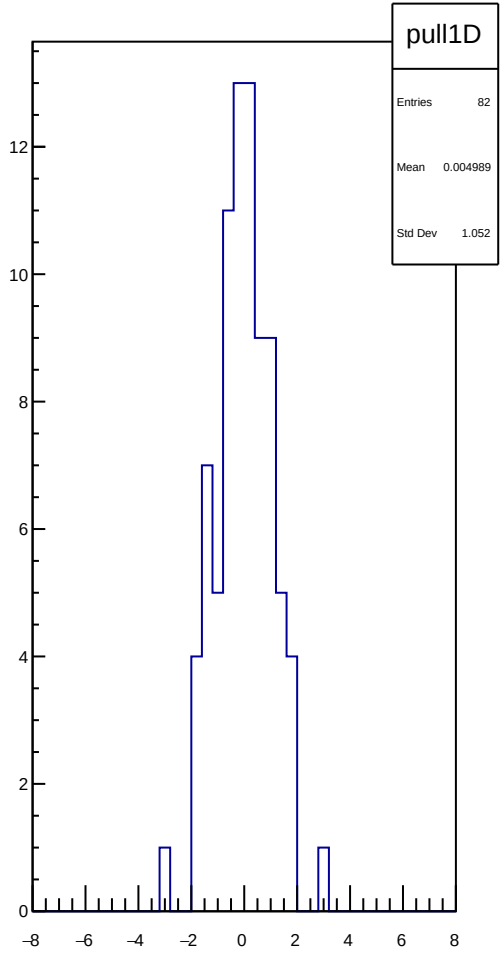

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 3104 / 81
p0 1110 ± 0.8725
1200
1150
1100
1050
1000

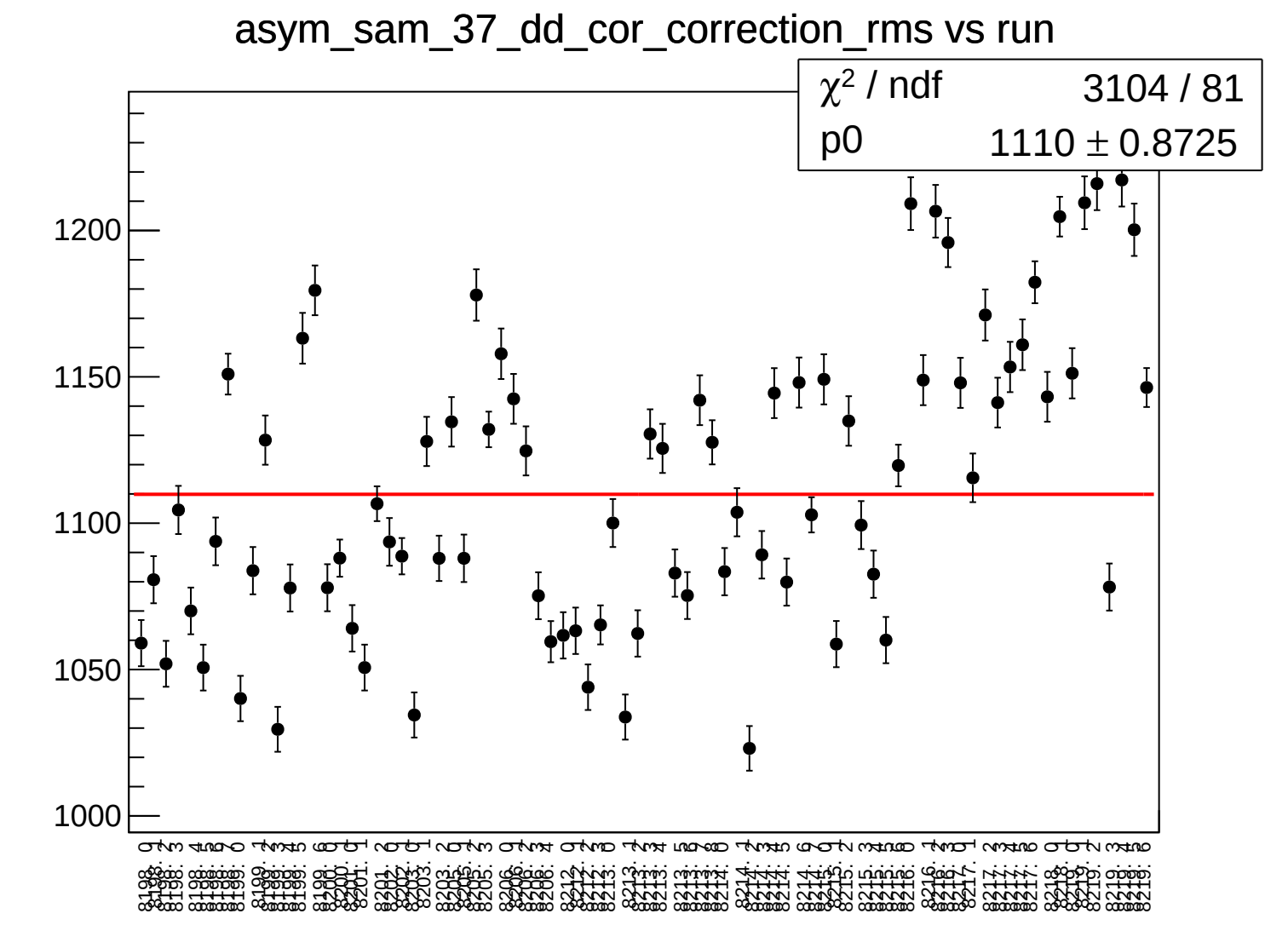

cor_asym_sam_37_dd_mean vs run
χ² / ndf 94.7 / 81
p0 86.74 ± 134.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −1334
Std Dev 0
2
1
0
−1
−2
−3

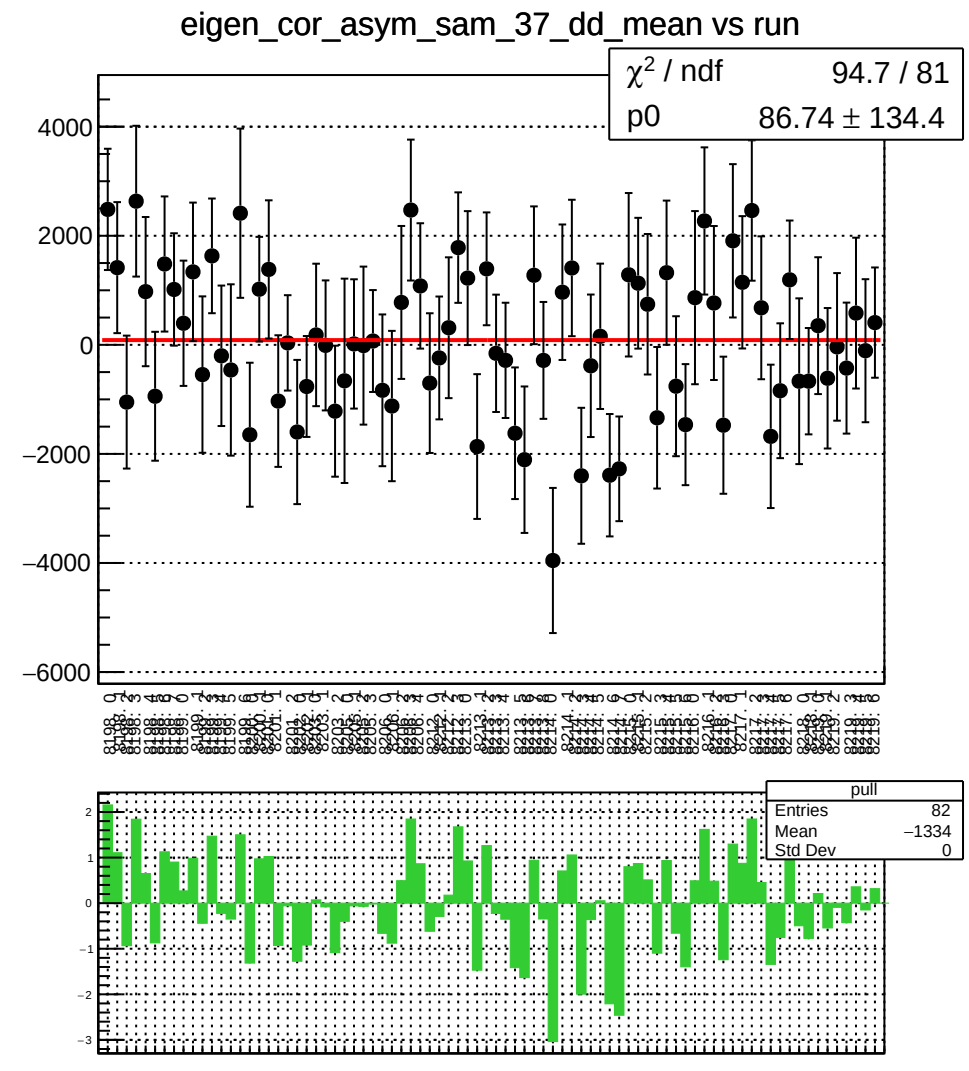

pull1D
Entries 82
Mean 0.002612
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

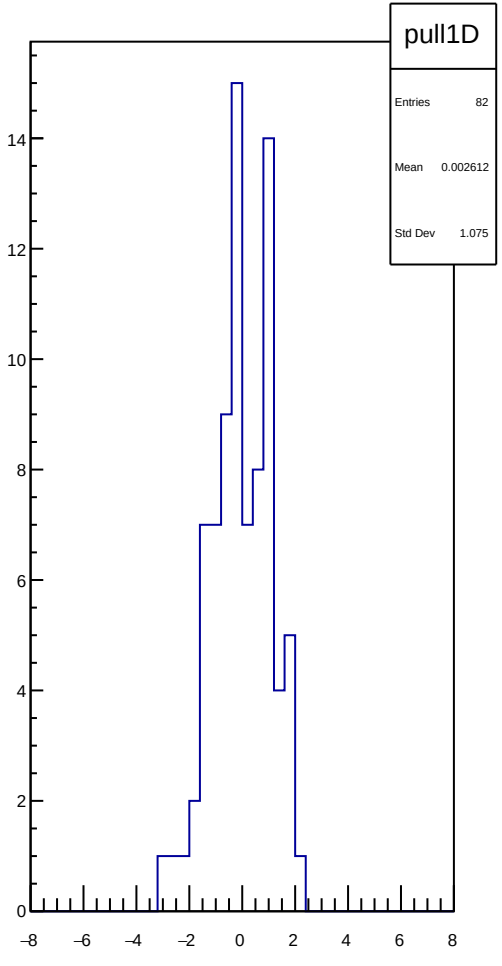

cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.253e+04 / 81
p0 120.6 ± 0.09507
180
170
160
150
140
130
120
110
100
90

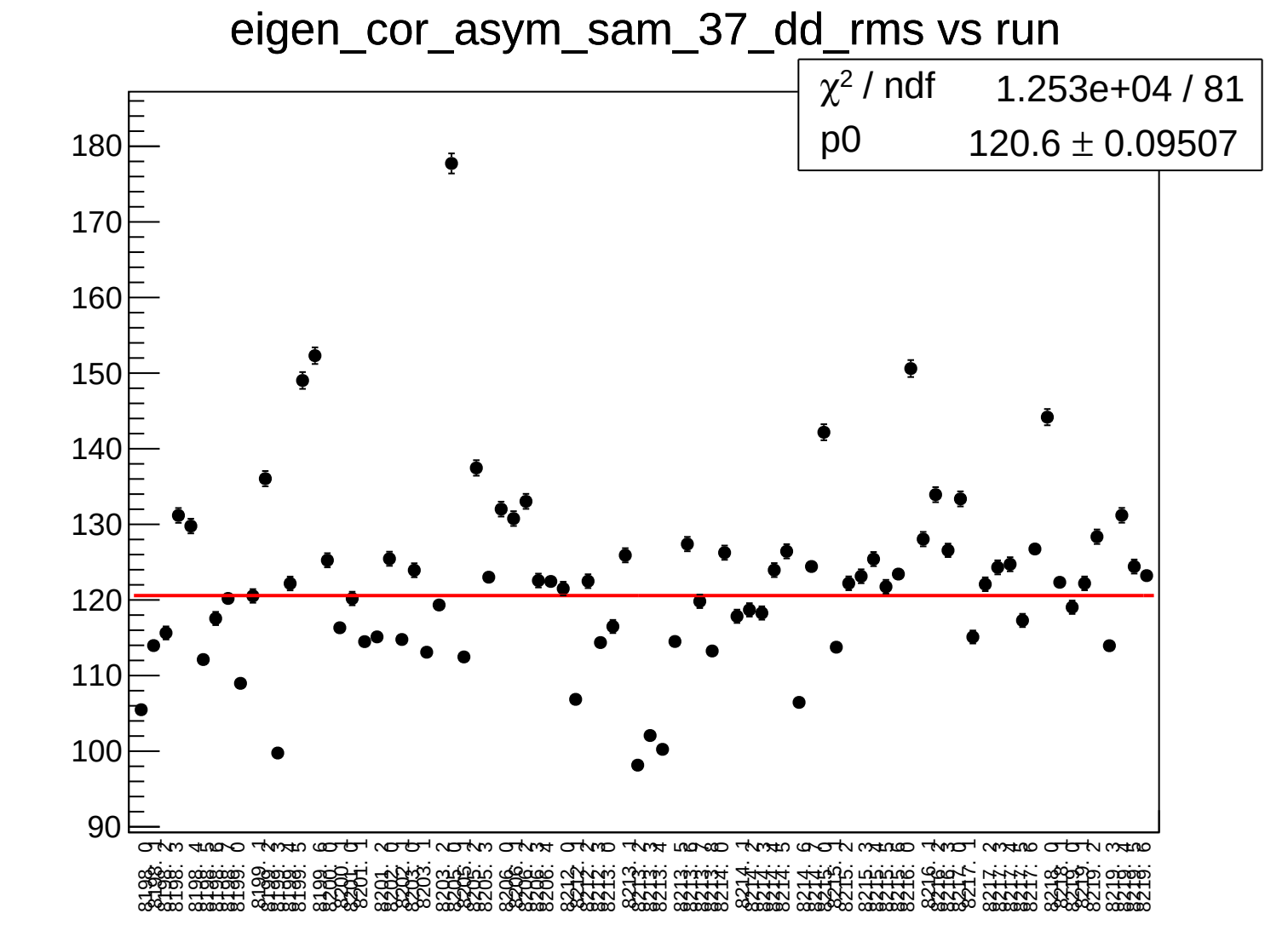

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 90.71 / 81
p0 −1346 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −515
Std Dev 0
3
2
1
0
−1
−2
−3

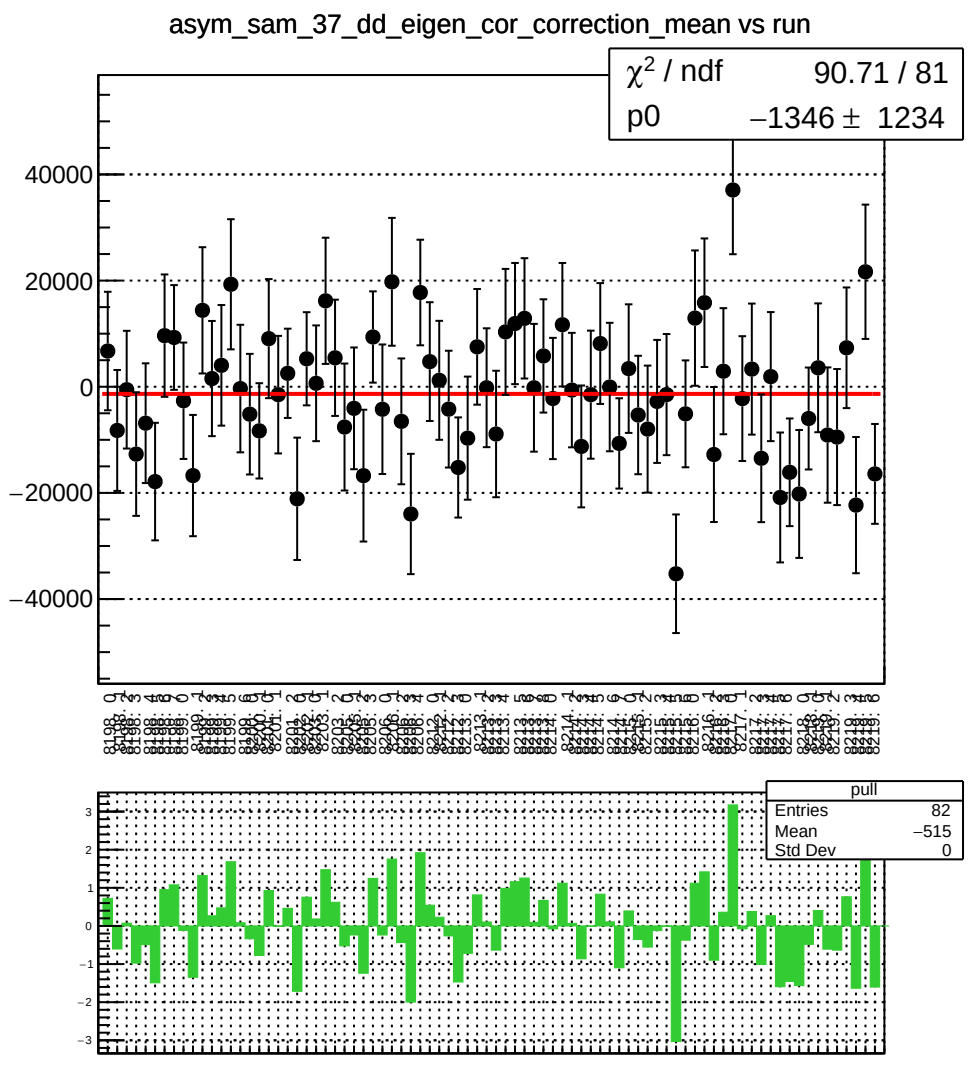

pull1D
Entries 82
Mean 0.004989
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

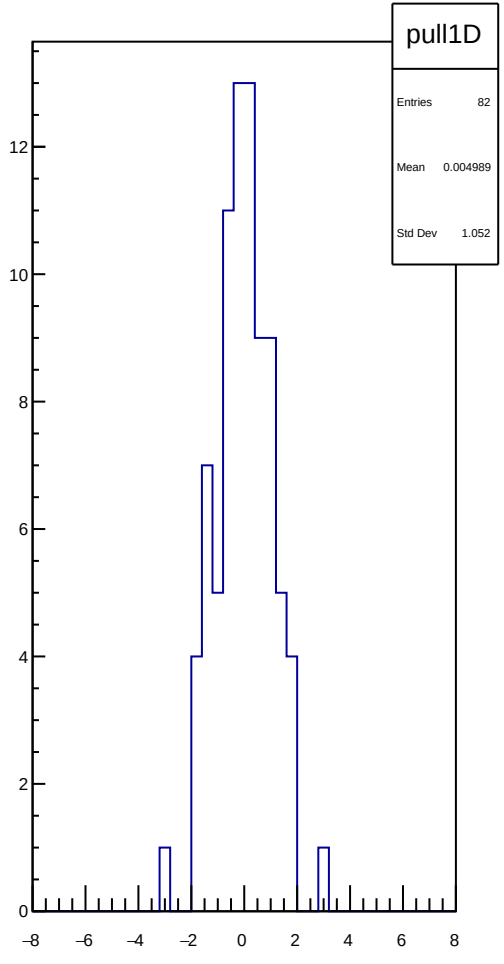

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 3104 / 81
p0 1110 ± 0.8725
1200
1150
1100
1050
1000

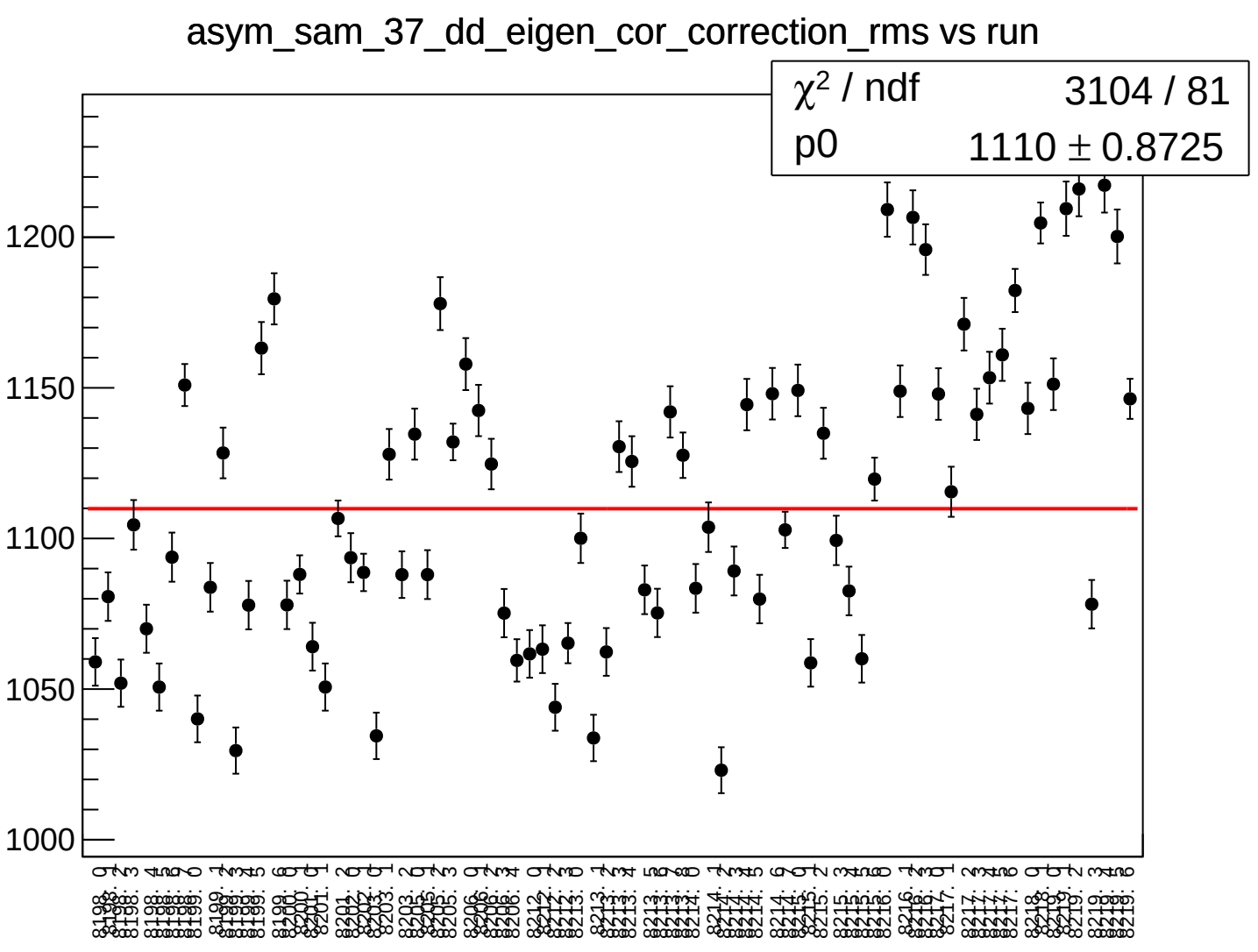

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 94.7 / 81
p0 86.74 ± 134.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −1334
Std Dev 0
2
1
0
−1
−2
−3

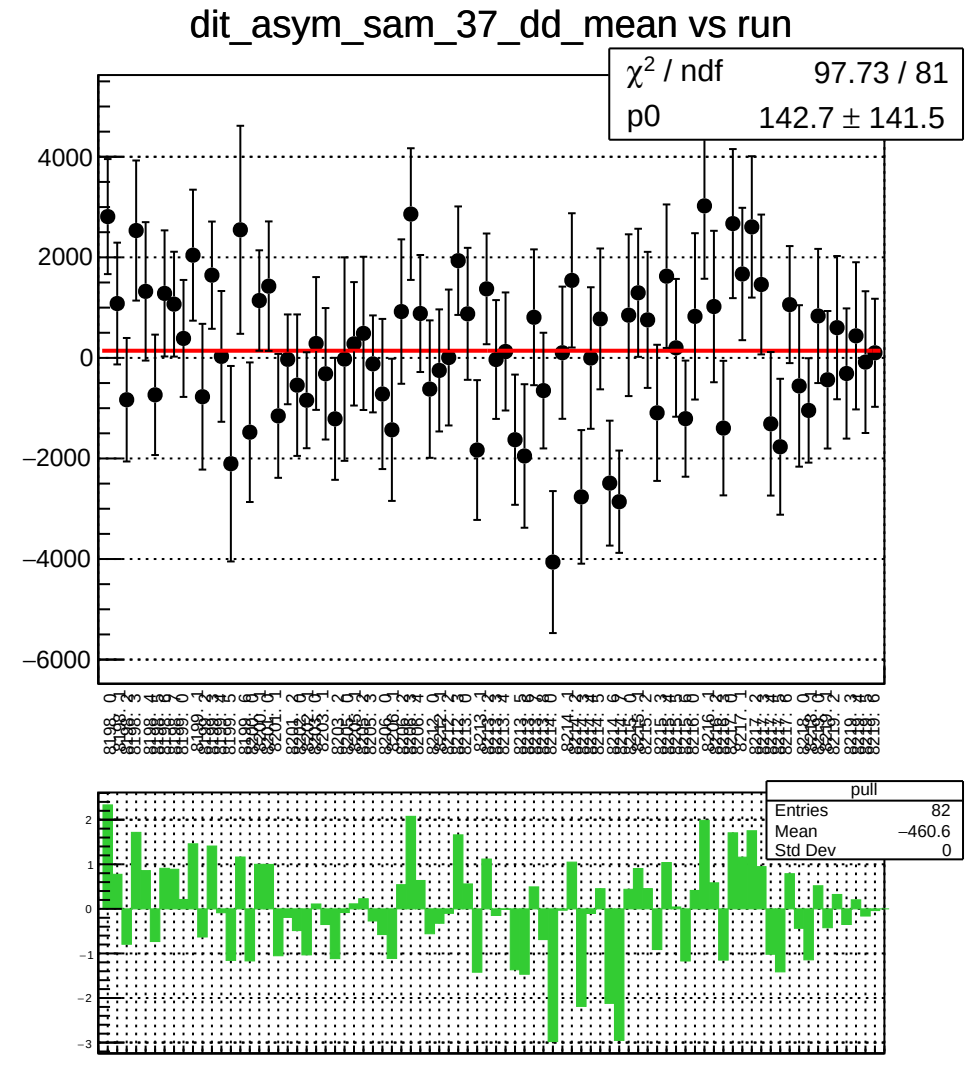

pull1D
Entries 82
Mean 0.002612
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

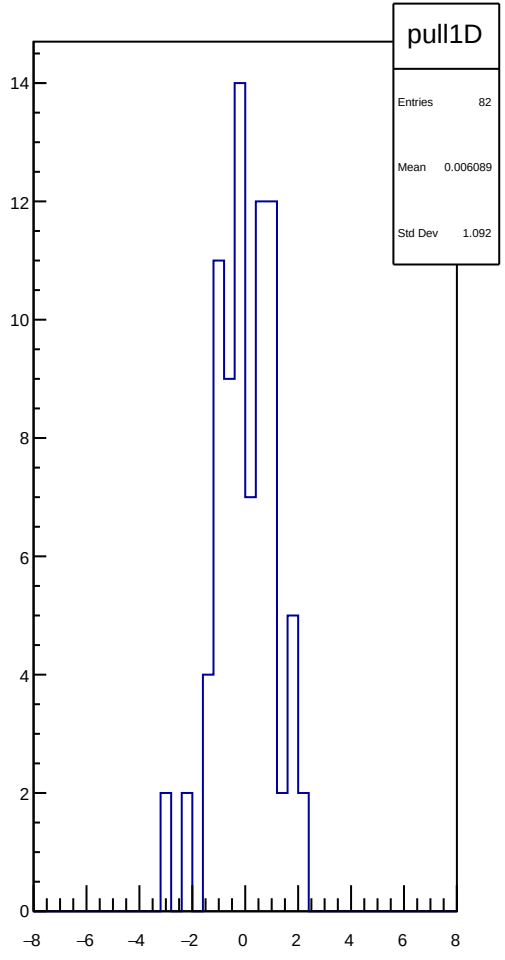

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.253e+04 / 81
p0 120.6 ± 0.09507
180
170
160
150
140
130
120
110
100
90

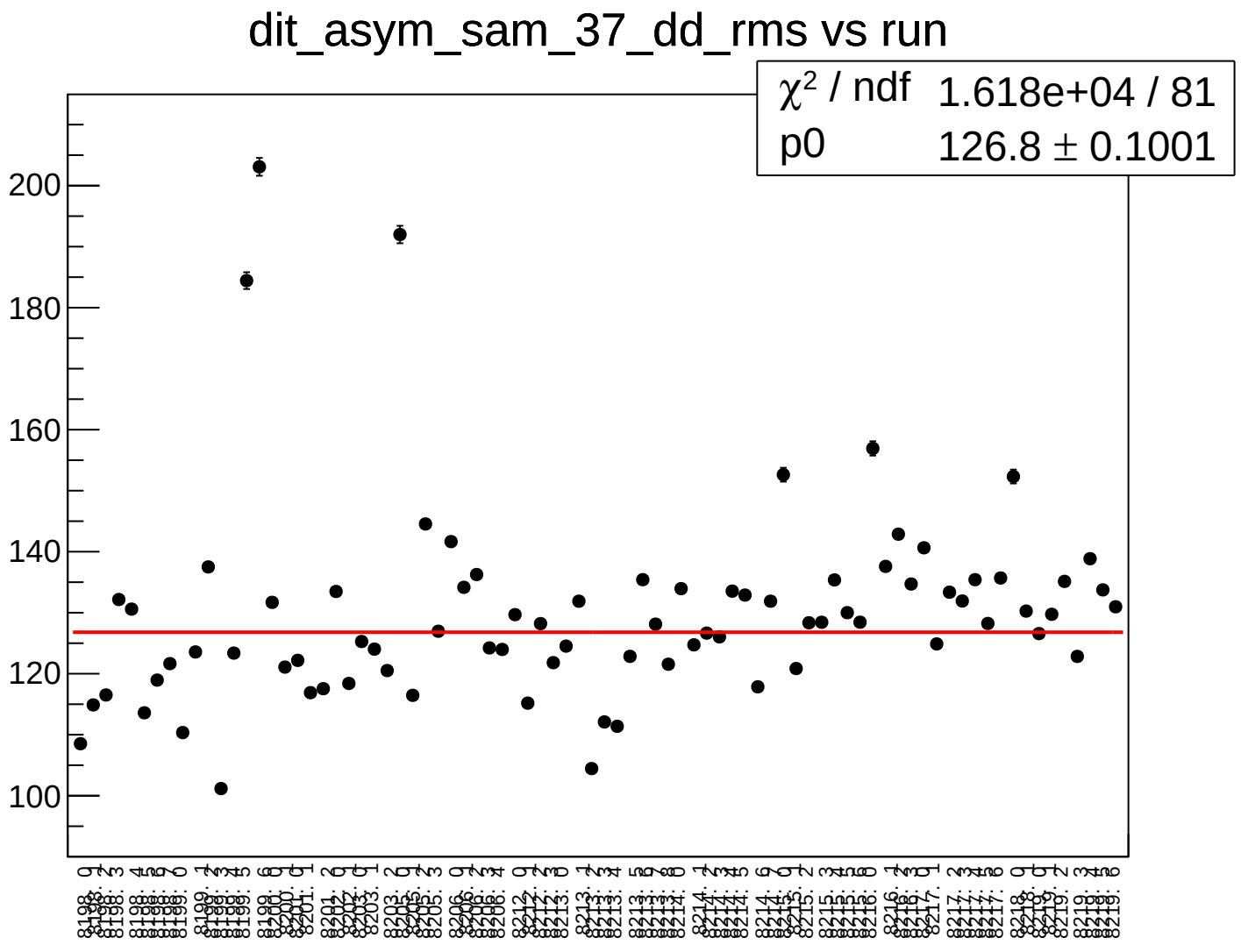

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.71 / 81
p0 −1346 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −515
Std Dev 0
3
2
1
0
−1
−2
−3

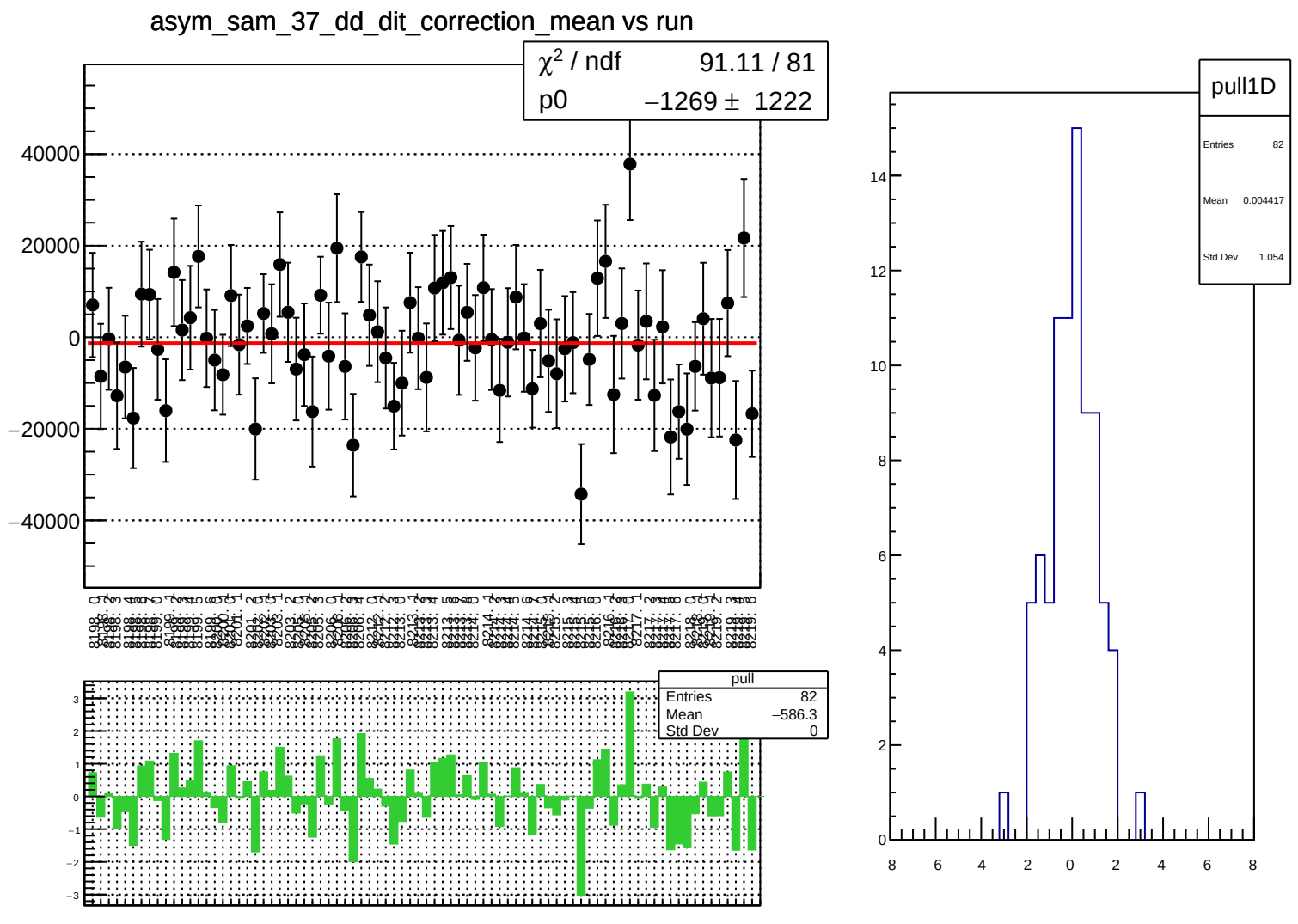

pull1D
Entries 82
Mean 0.004989
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

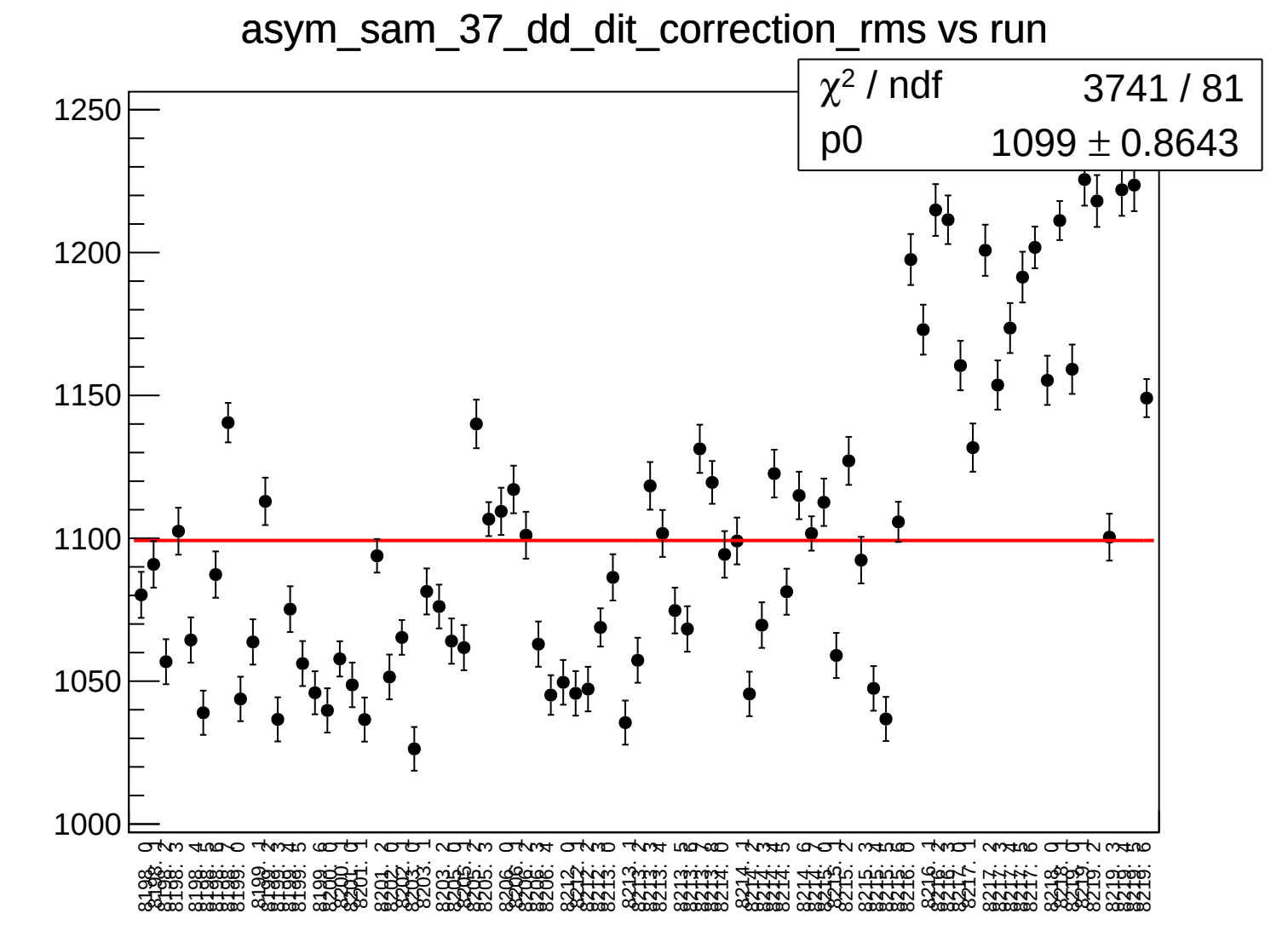

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 3104 / 81
p0 1110 ± 0.8725
1200
1150
1100
1050
1000

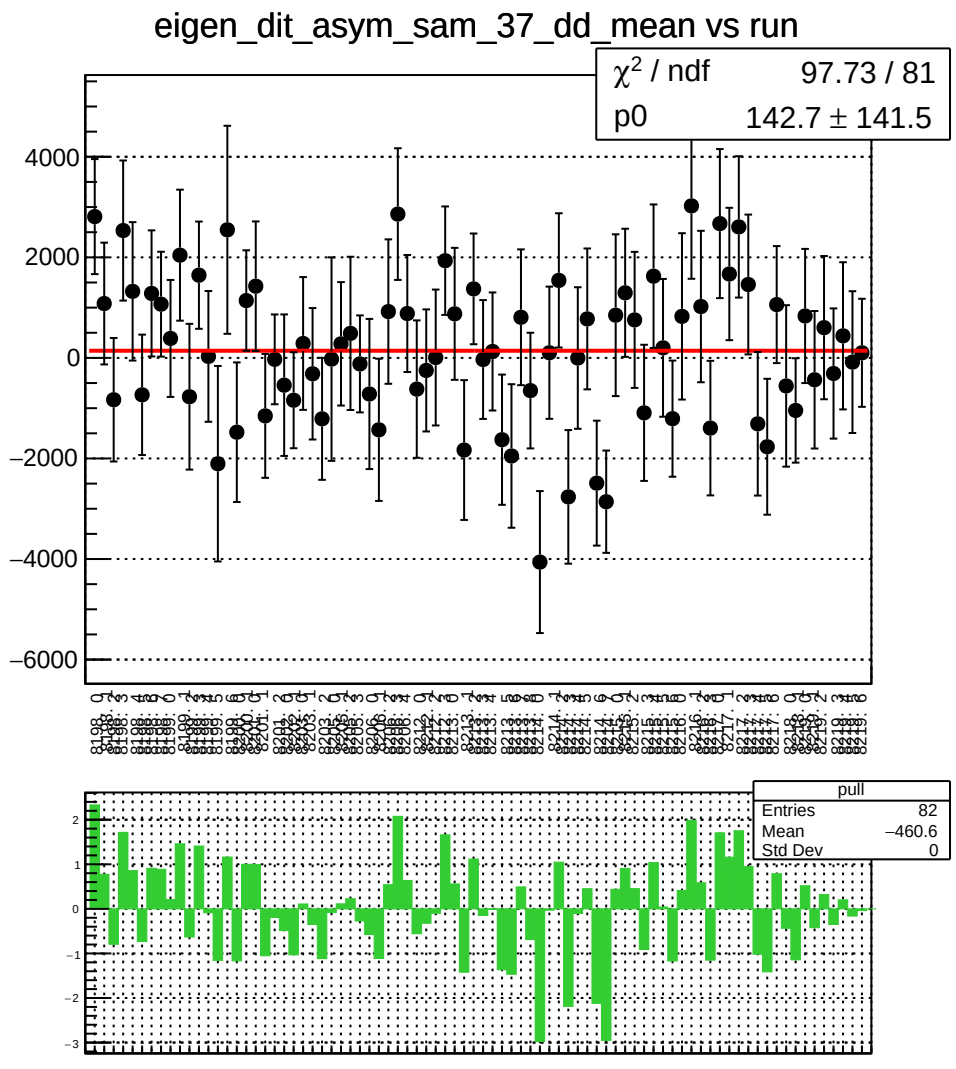

dit_asym_sam_37_dd_mean vs run
χ² / ndf 97.73 / 81
p0 142.7 ± 141.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −460.6
Std Dev 0
2
1
0
−1
−2
−3

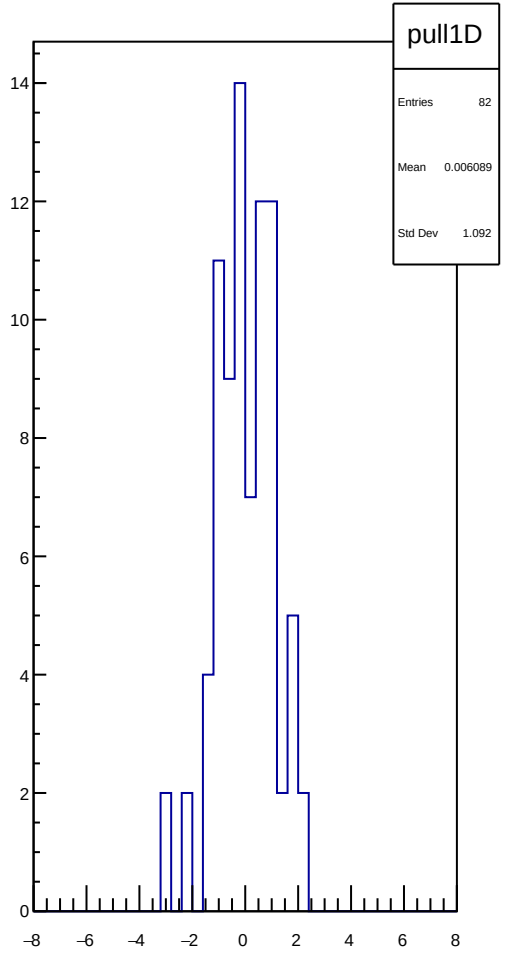

pull1D
Entries 82
Mean 0.006089
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

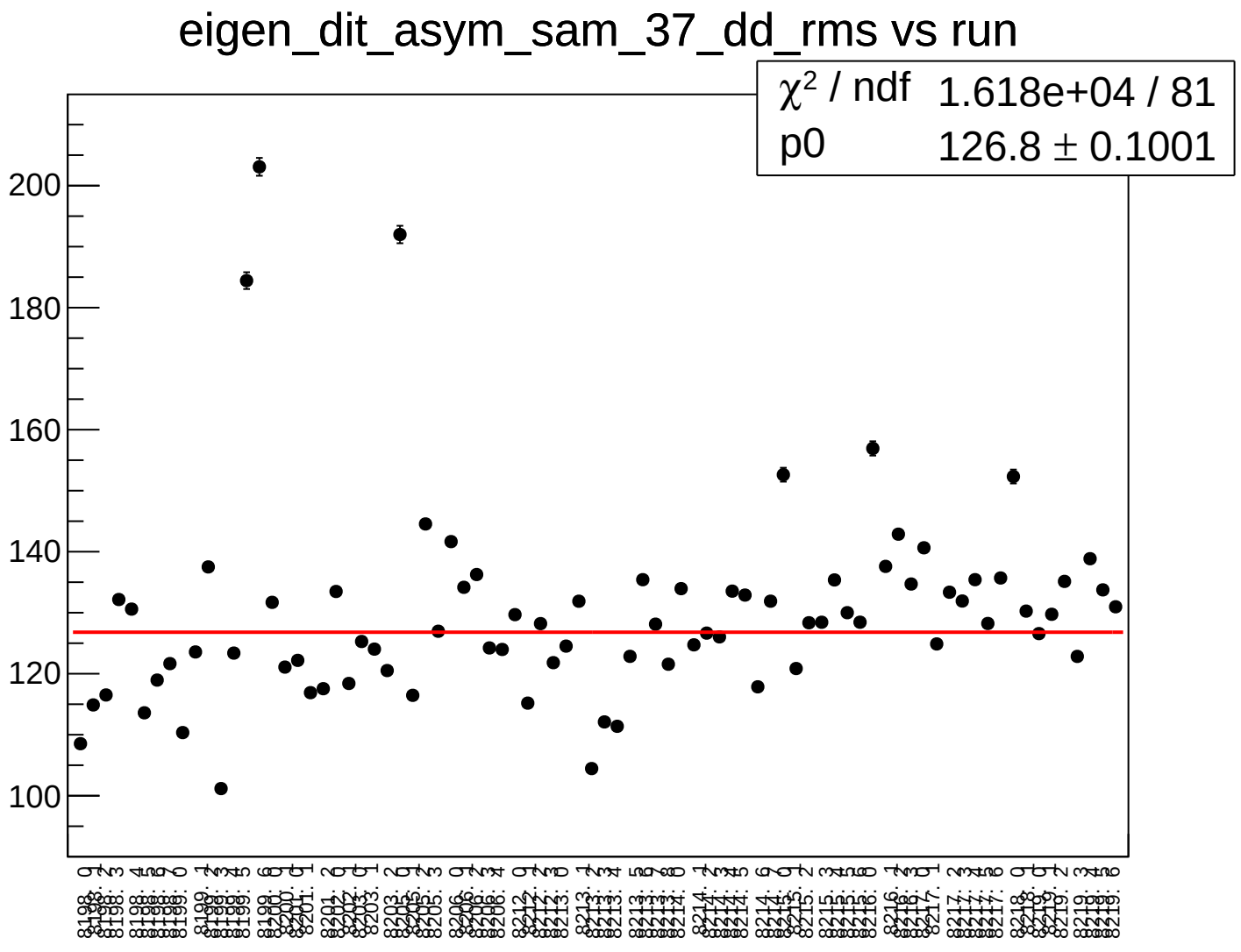

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.618e+04 / 81
p0 126.8 ± 0.1001
200
180
160
140
120
100

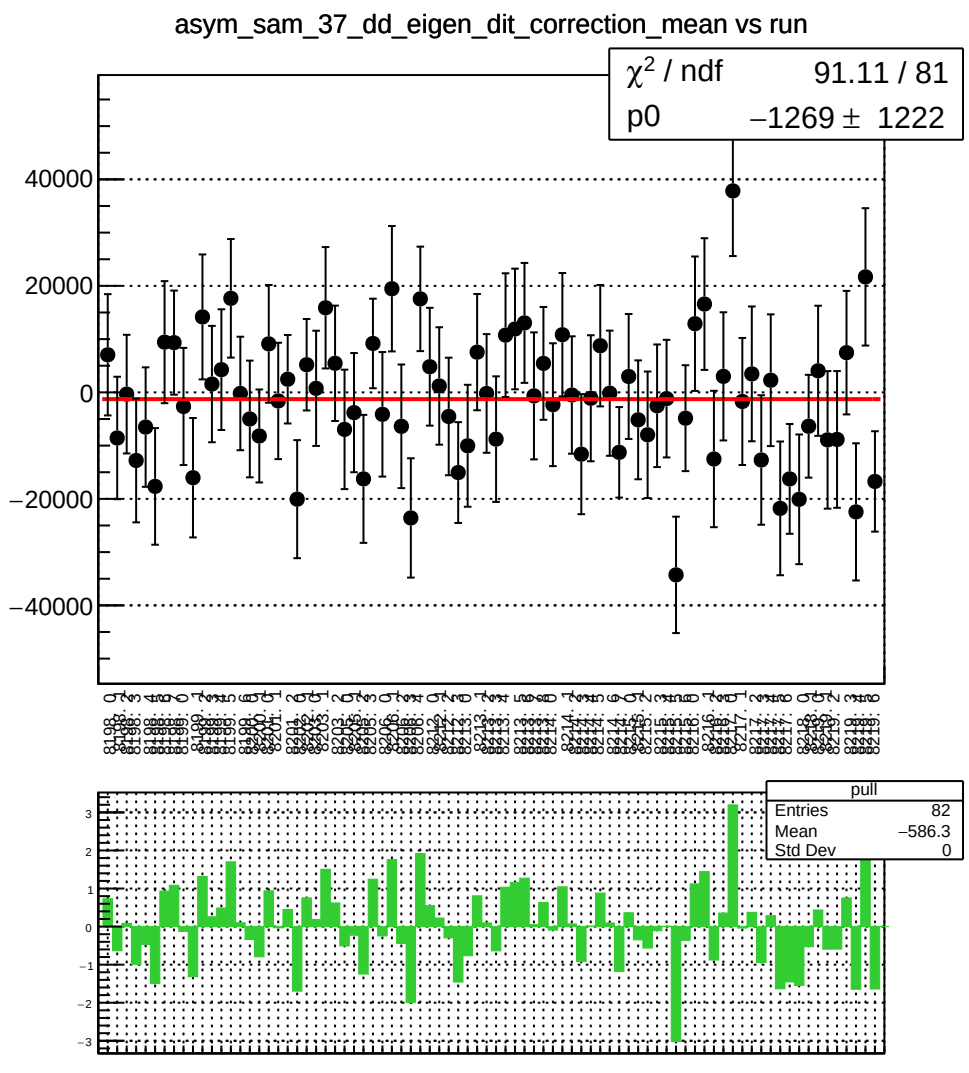

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 91.11 / 81
p0 −1269 ± 1222
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −586.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.004417
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

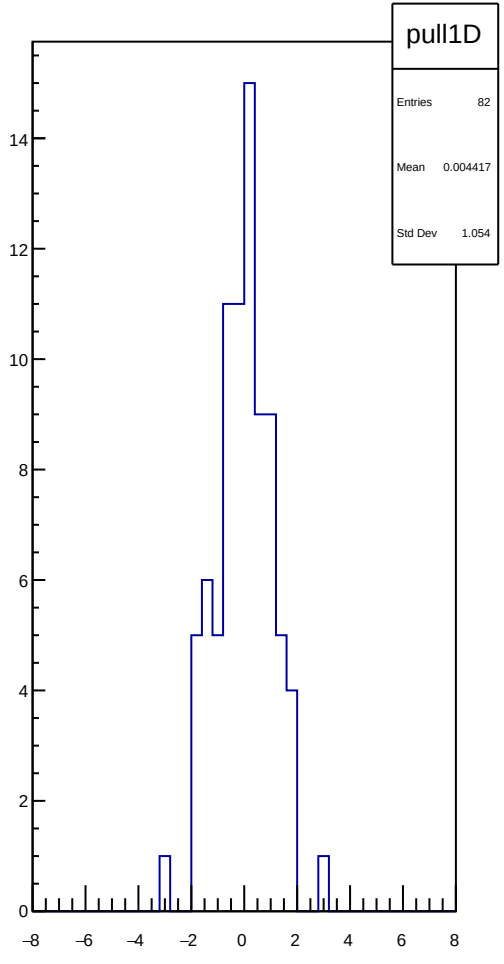

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 3741 / 81
p0 1099 ± 0.8643
1250
1200
1150
1100
1050
1000

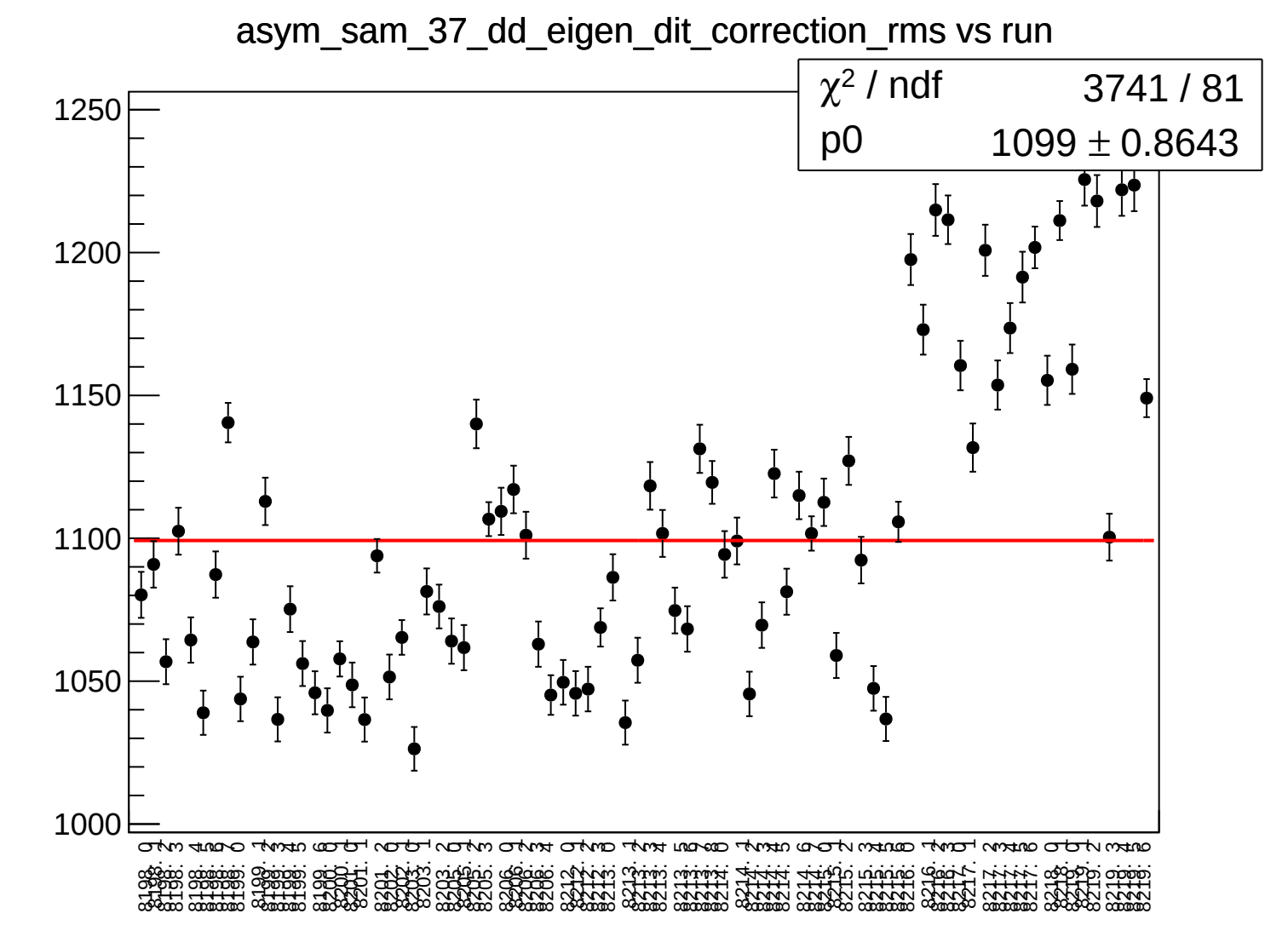

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 97.73 / 81
p0 142.7 ± 141.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −460.6
Std Dev 0
2
1
0
−1
−2
−3

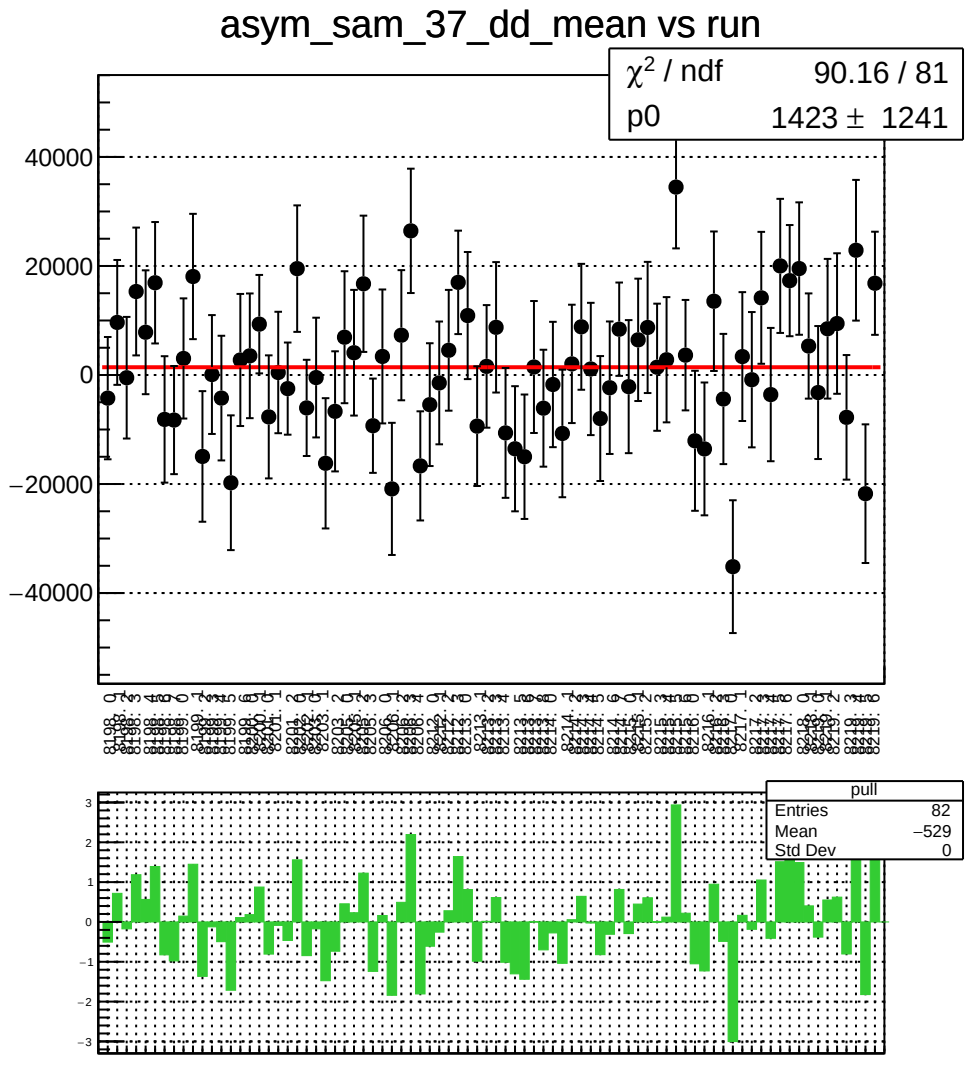

pull1D
Entries 82
Mean 0.006089
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

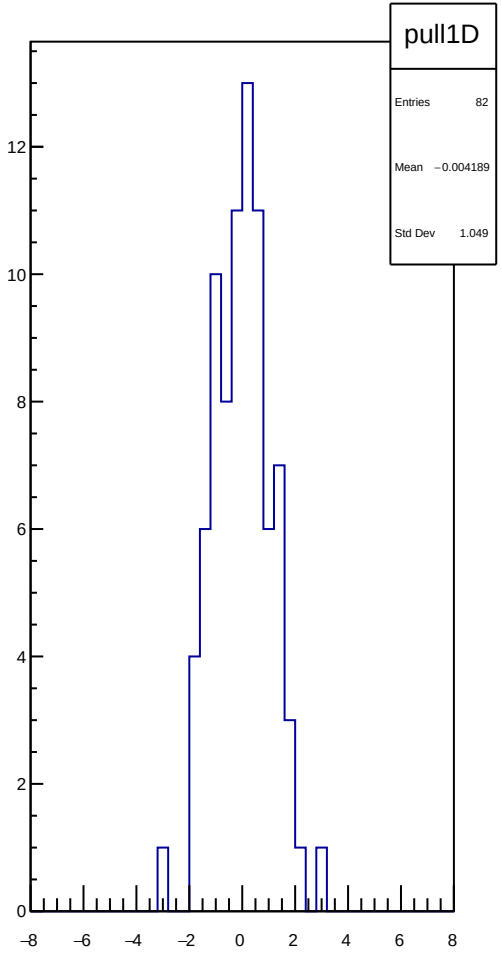

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.618e+04 / 81
p0 126.8 ± 0.1001
200
180
160
140
120
100

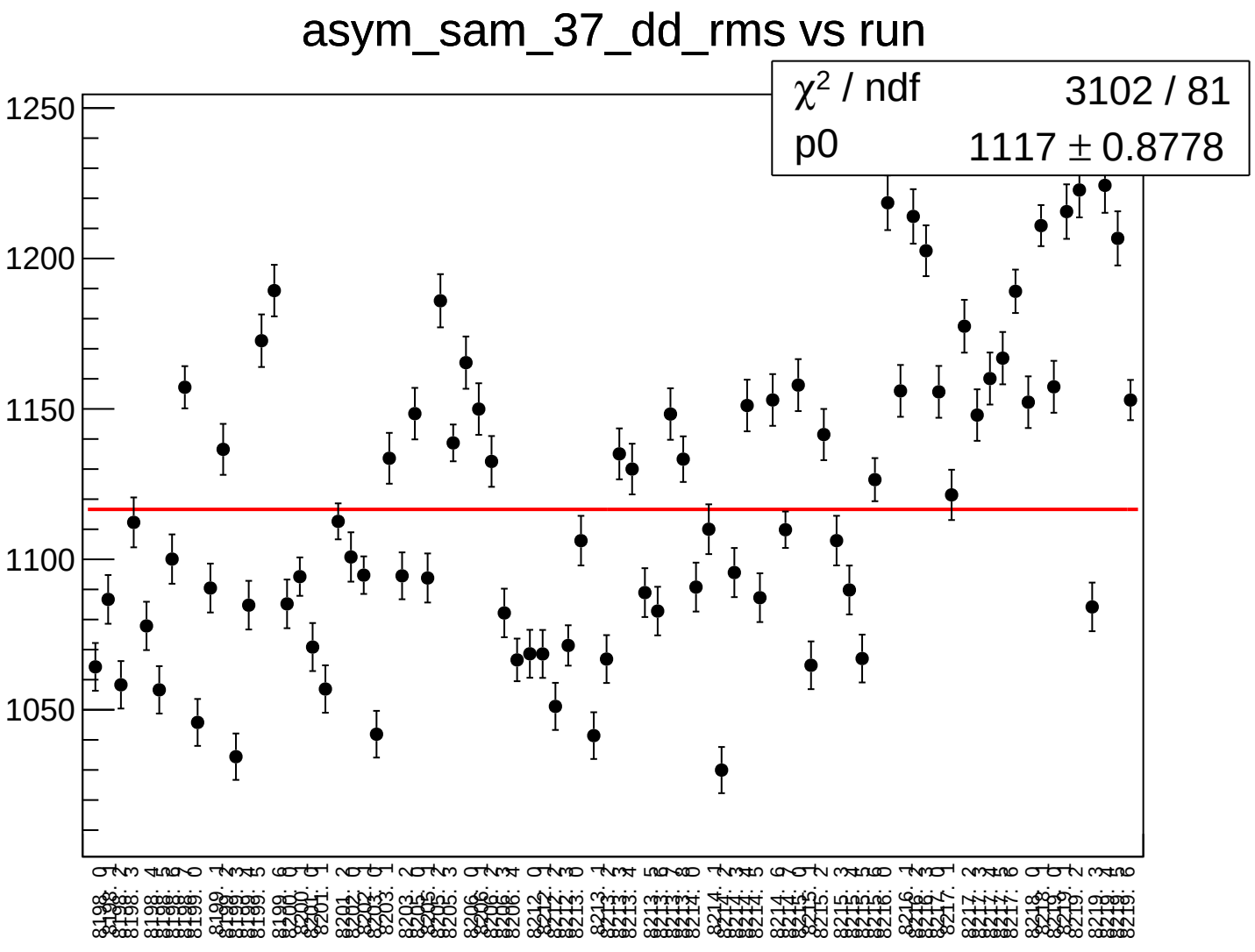

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.11 / 81
p0 −1269 ± 1222
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −586.3
Std Dev 0
3
2
1
0
−1
−2
−3

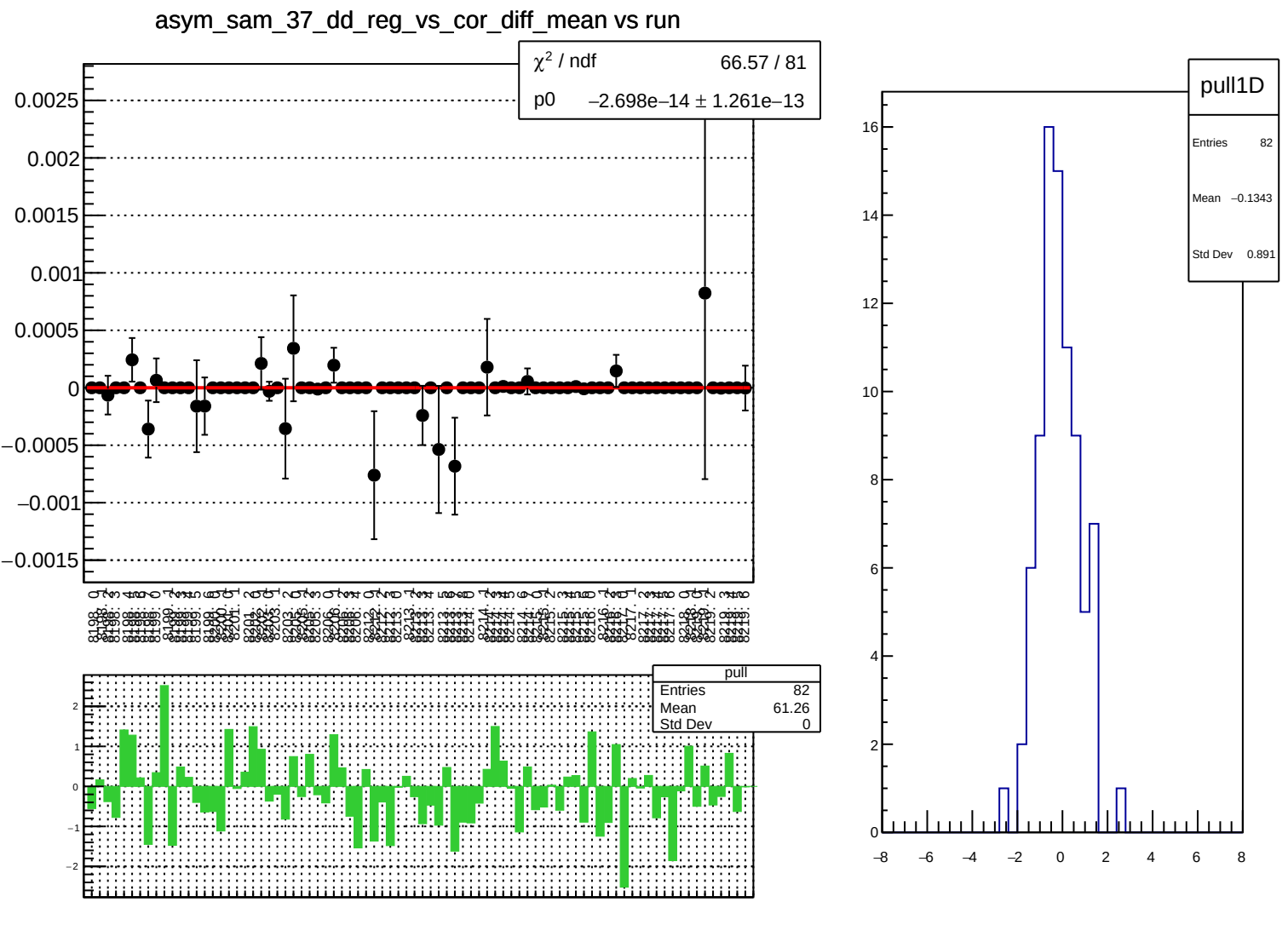

pull1D
Entries 82
Mean 0.004417
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

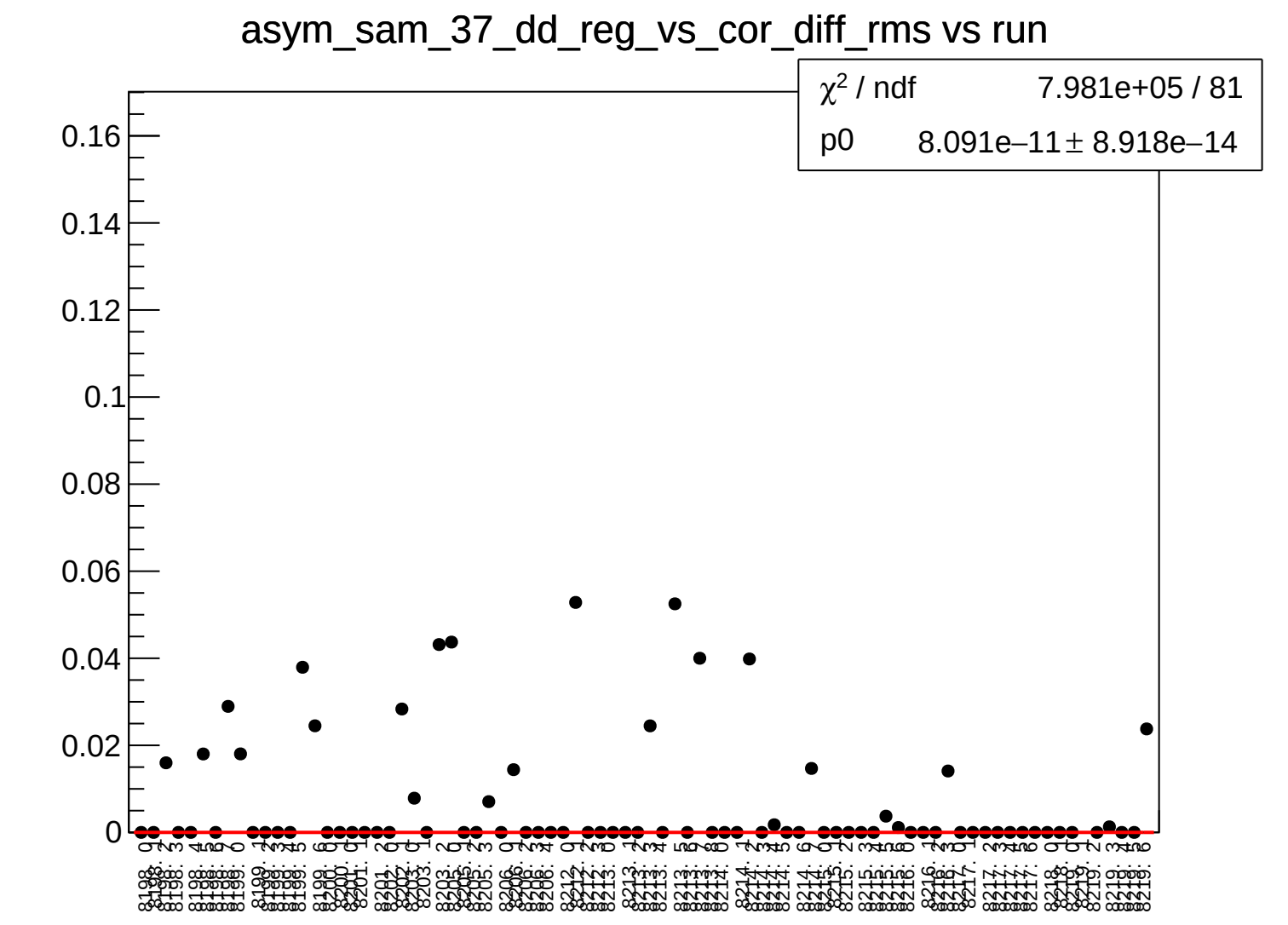

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3741 / 81
p0 1099 ± 0.8643
1250
1200
1150
1100
1050
1000

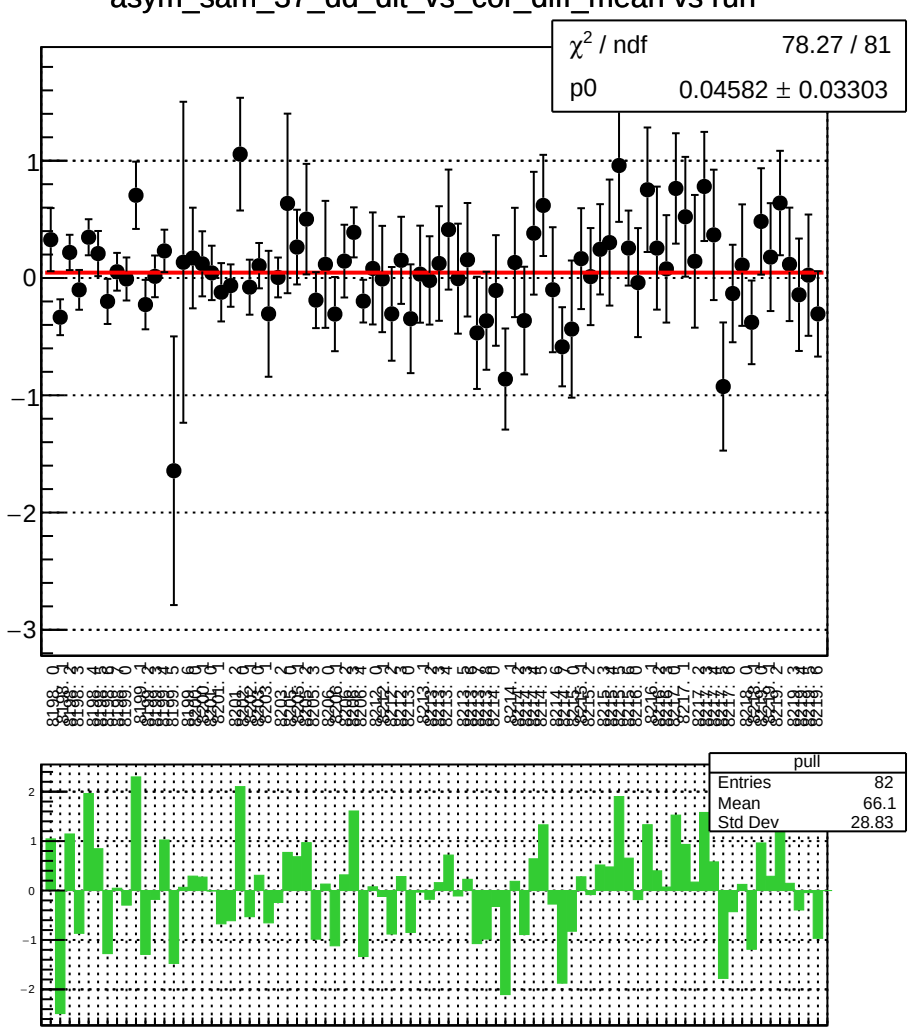

asym_sam_37_dd_mean vs run
χ² / ndf 90.16 / 81
p0 1423 ± 1241
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −529
Std Dev 0
3
2
1
0
−1
−2
−3

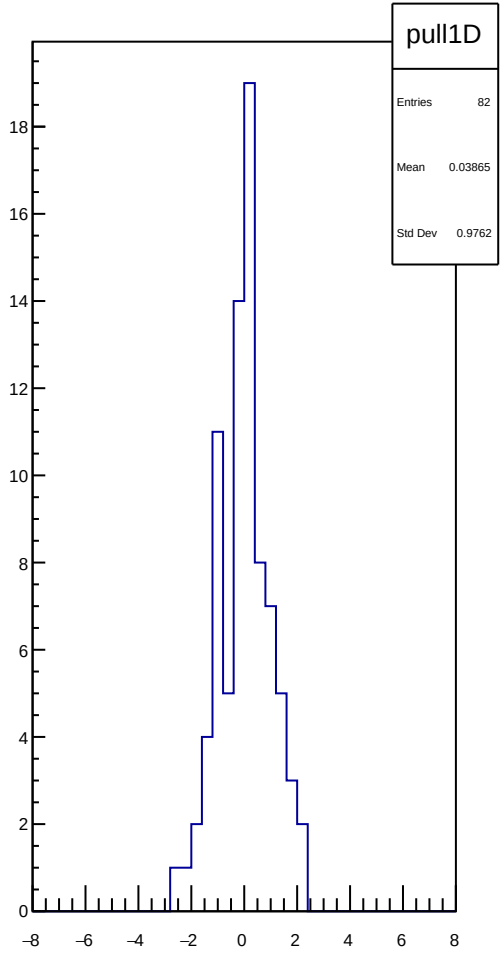

pull1D
Entries 82
Mean −0.004189
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

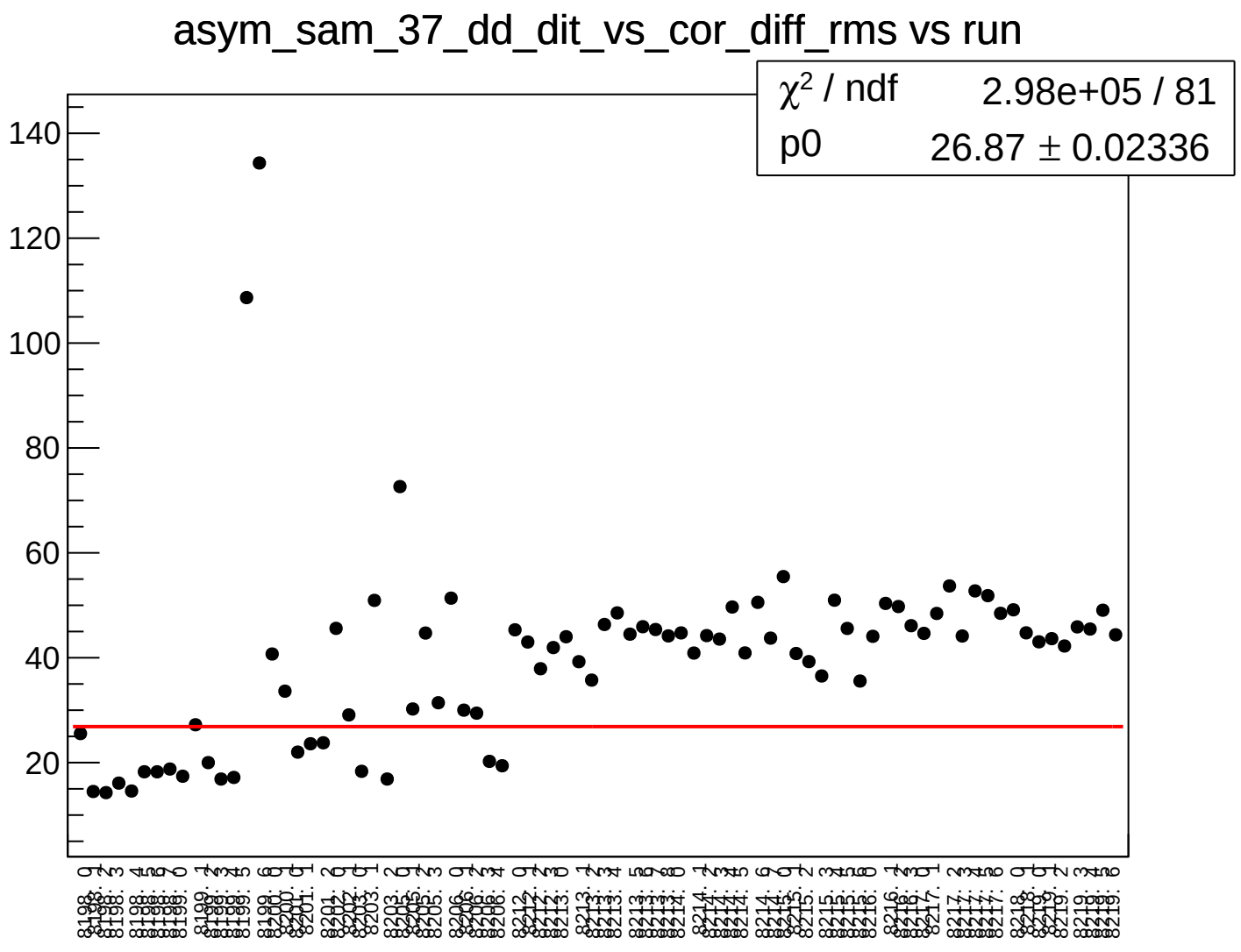

asym_sam_37_dd_rms vs run
χ² / ndf 3102 / 81
p0 1117 ± 0.8778
1250
1200
1150
1100
1050

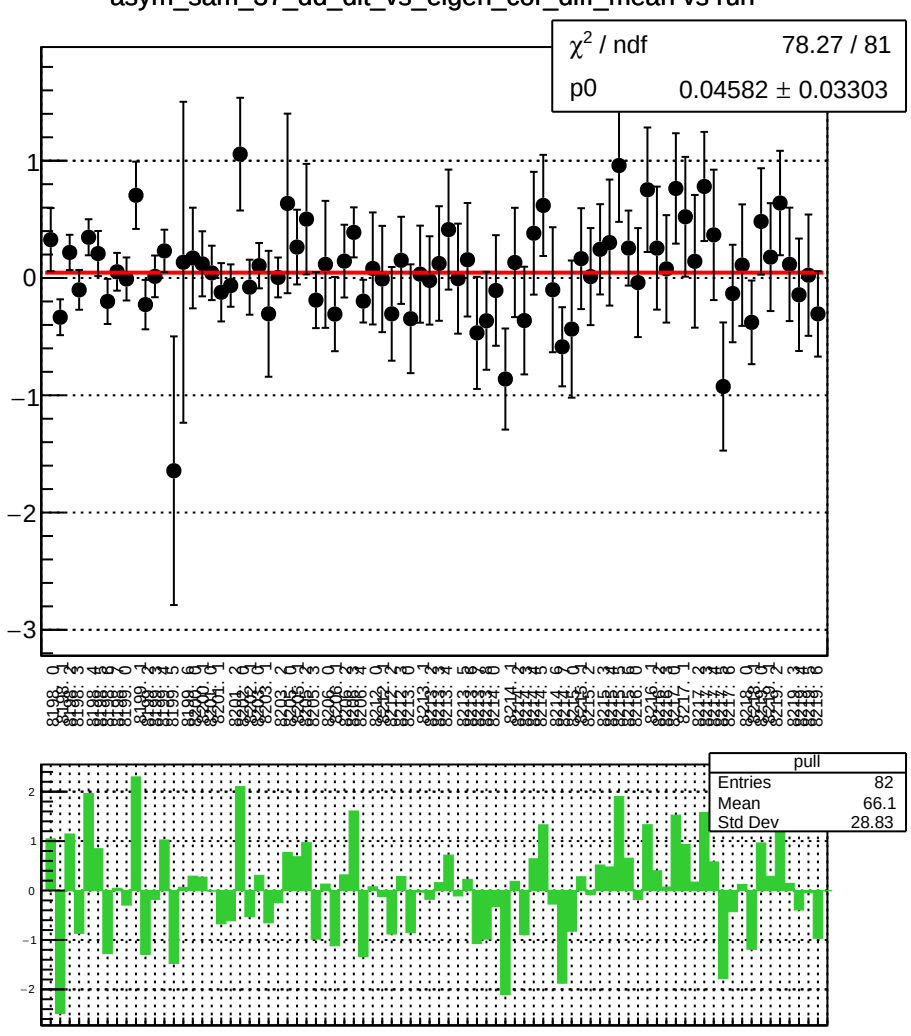

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.57 / 81
p0 −2.698e−14 ± 1.261e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean 61.26
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.1343
Std Dev 0.891
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

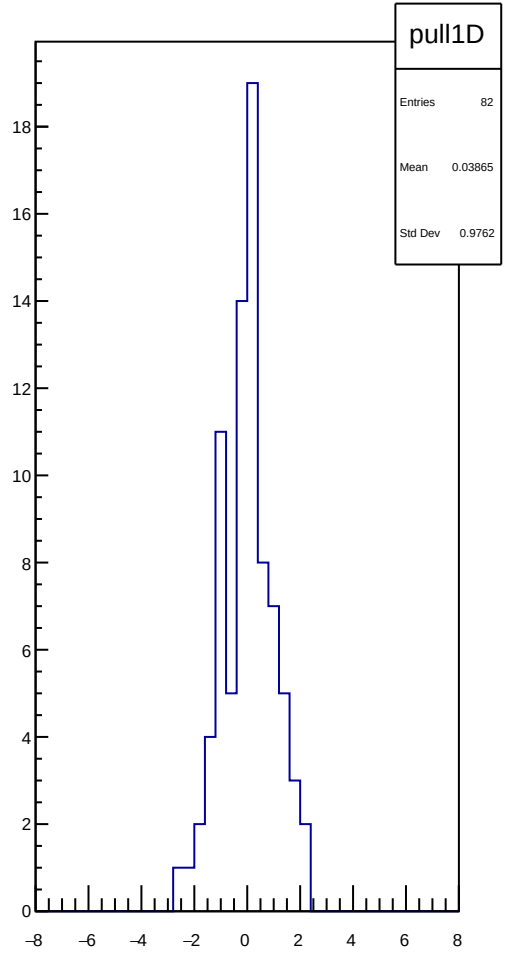

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.981e+05 / 81
p0 8.091e−11 ± 8.918e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

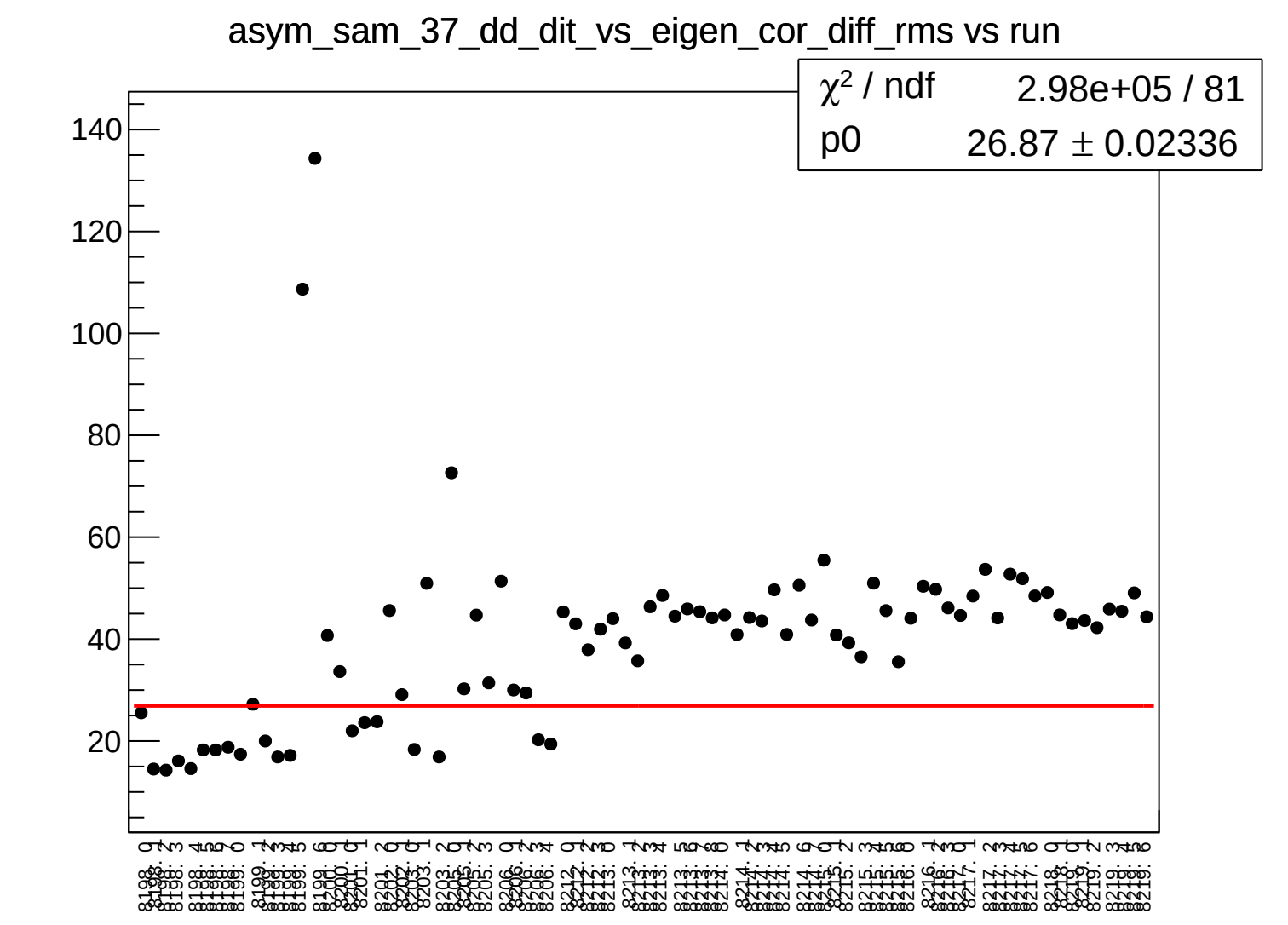

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.27 / 81
p0 0.04582 ± 0.03303
pull
Entries 82
Mean 66.1
Std Dev 28.83

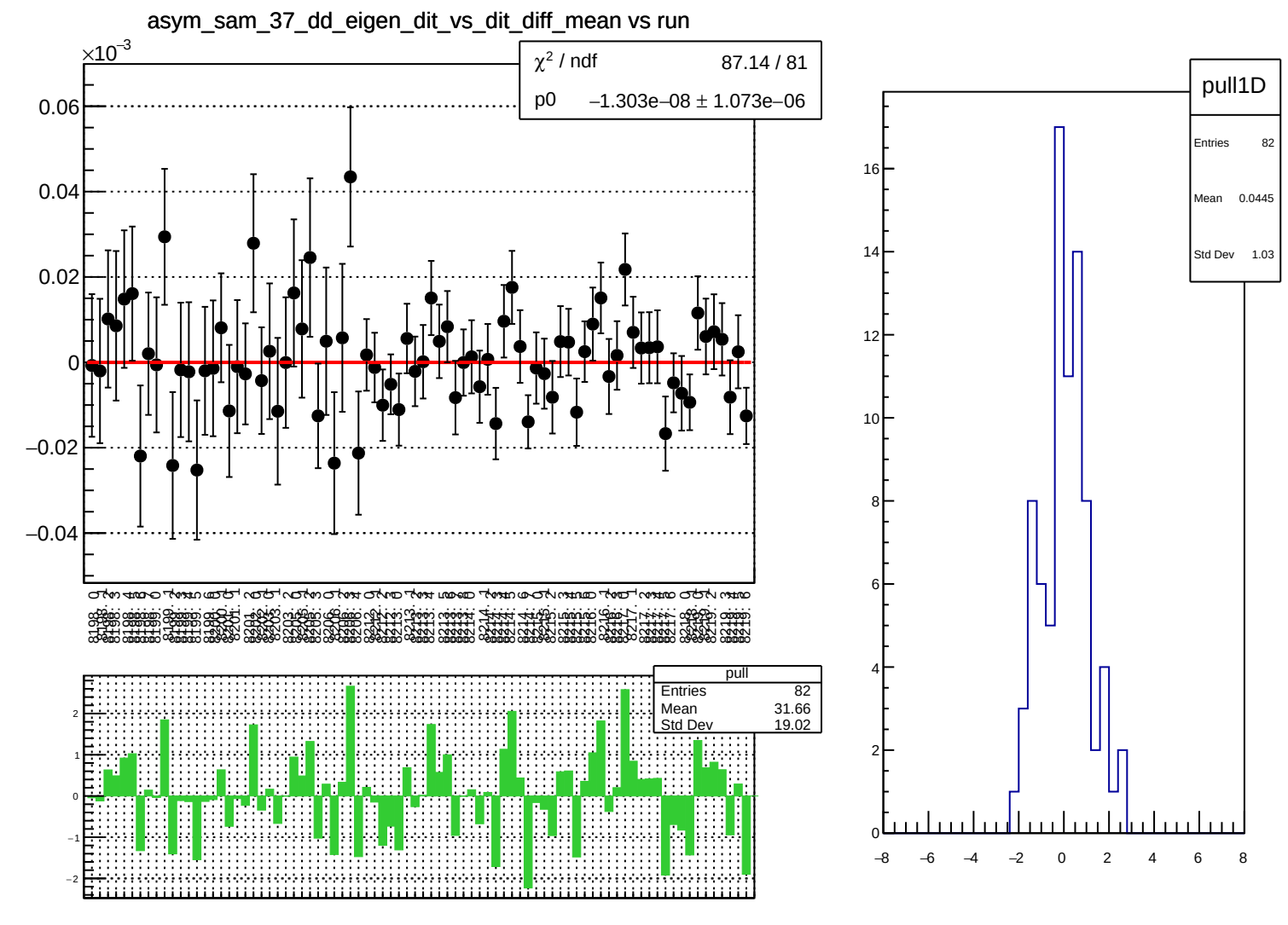

pull1D
Entries 82
Mean 0.03865
Std Dev 0.9762

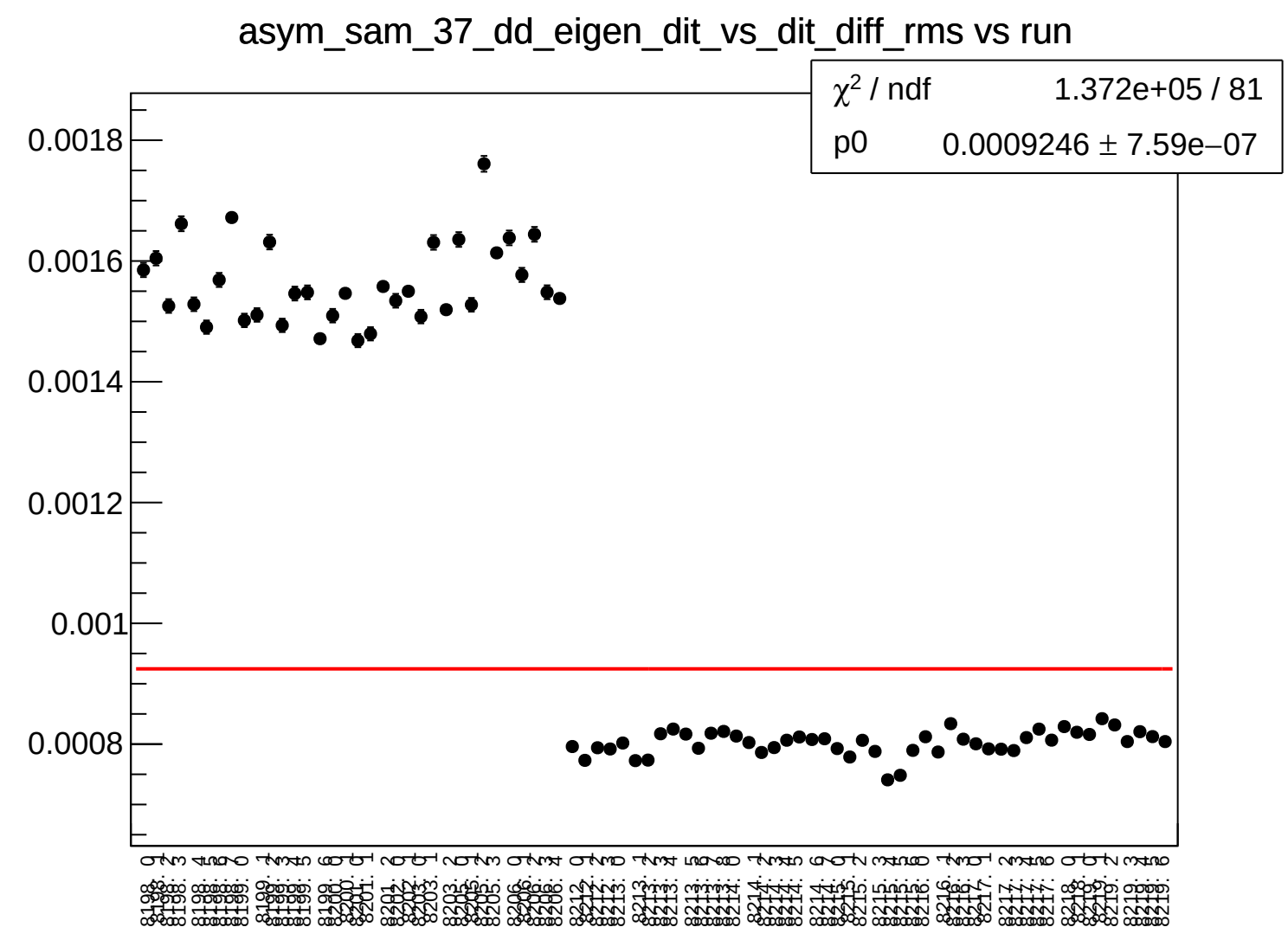

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.98e+05 / 81
p0 26.87 ± 0.02336
140
120
100
80
60
40
20

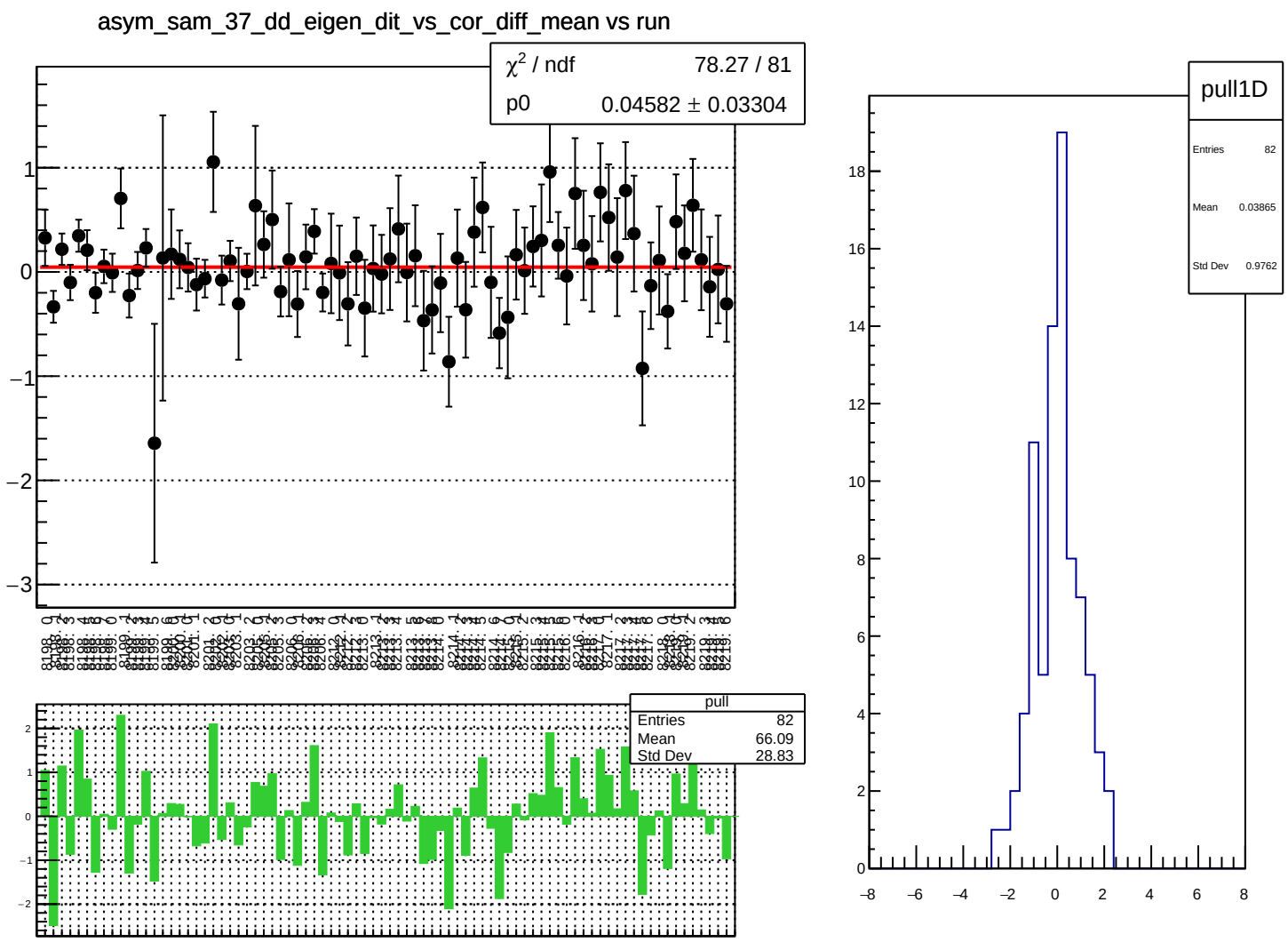

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.27 / 81
p0 0.04582 ± 0.03303
pull
Entries 82
Mean 66.1
Std Dev 28.83

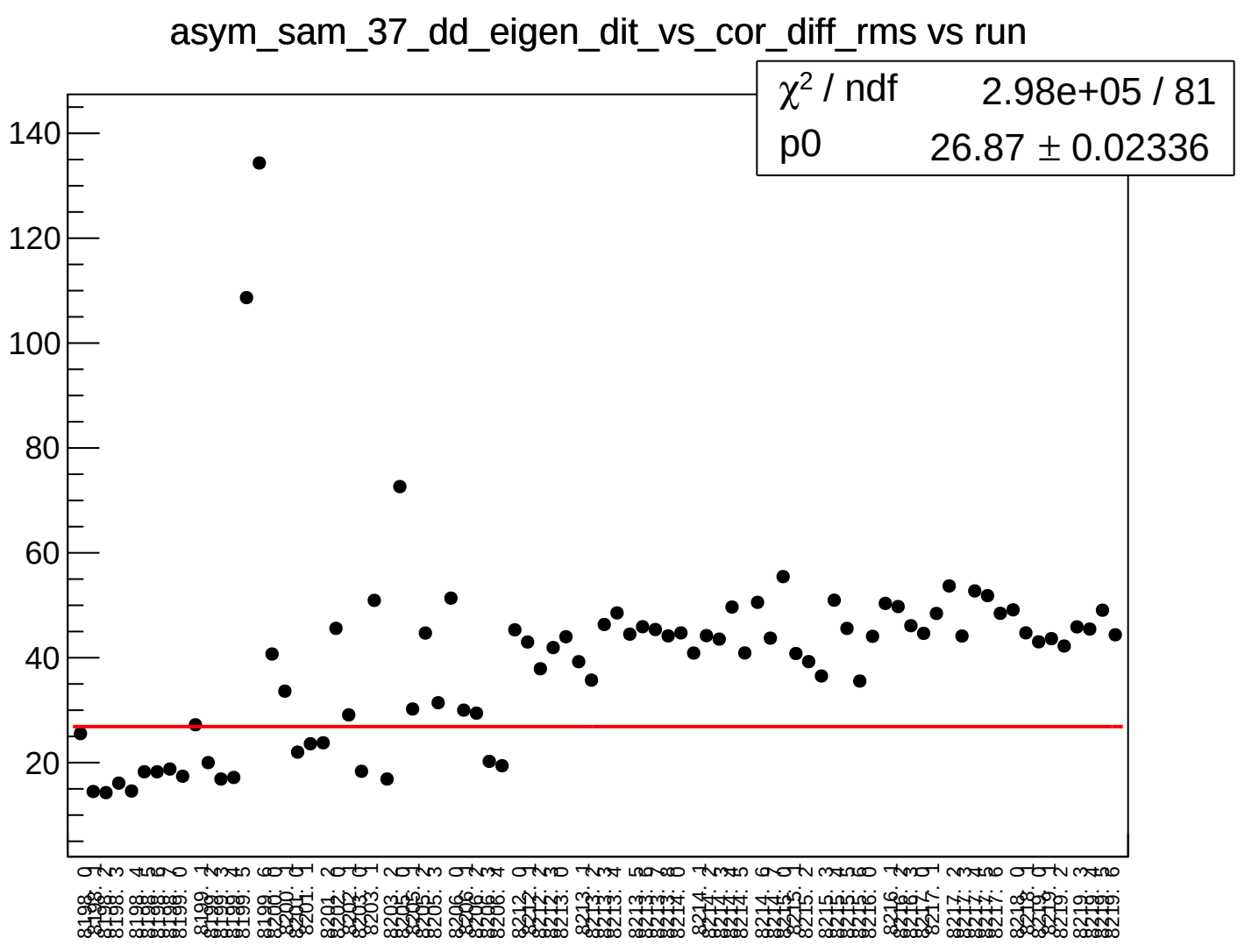

pull1D
Entries 82
Mean 0.03865
Std Dev 0.9762

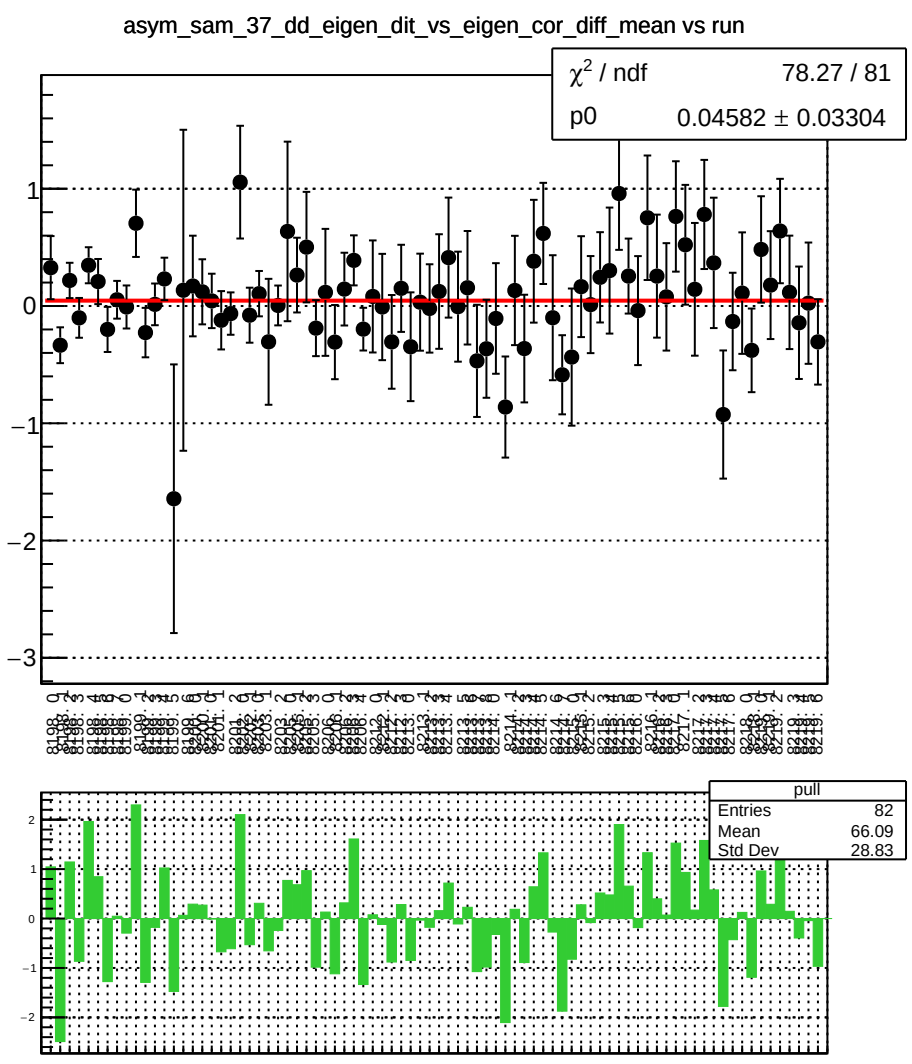

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.98e+05 / 81
p0 26.87 ± 0.02336
140
120
100
80
60
40
20

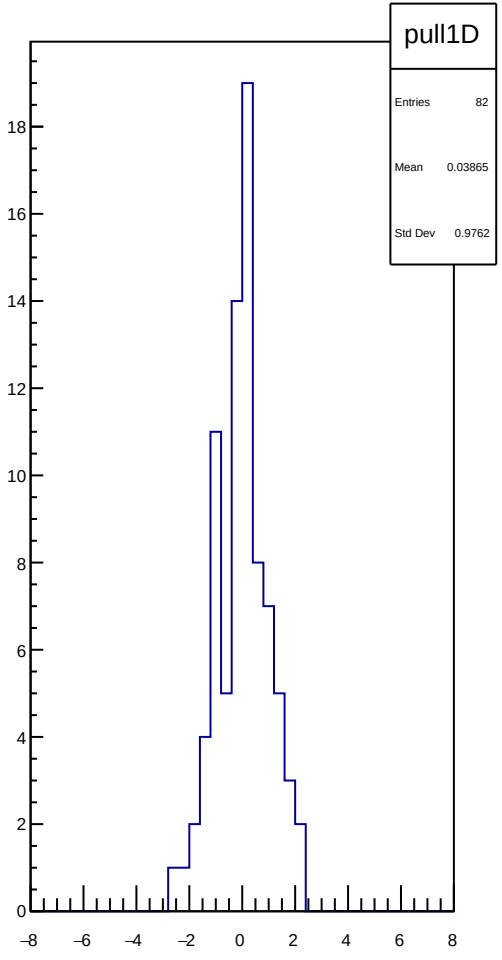

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 87.14 / 81
p0 −1.303e−08 ± 1.073e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 82
Mean 31.66
Std Dev 19.02
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.0445
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

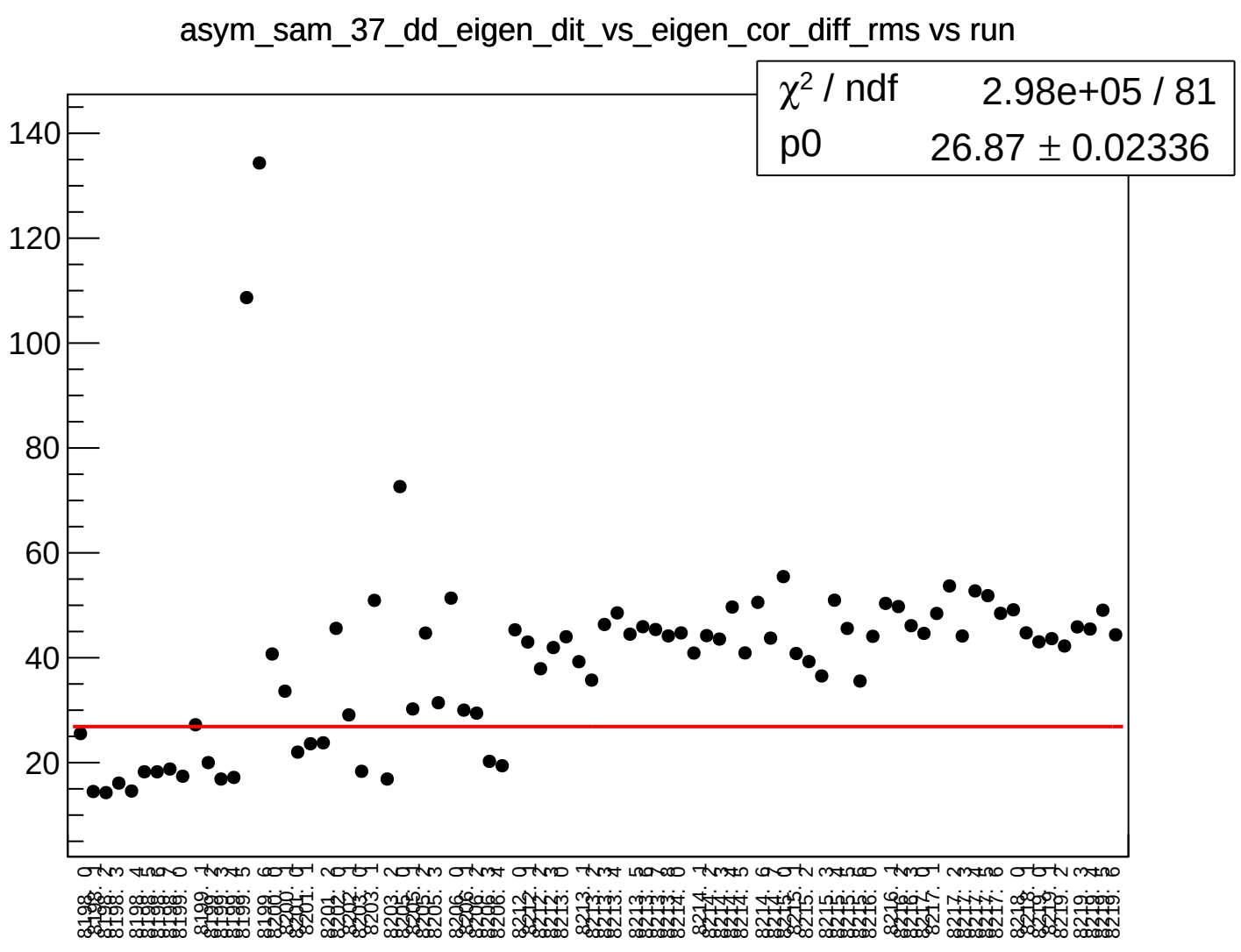

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.372e+05 / 81
p0 0.0009246 ± 7.59e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

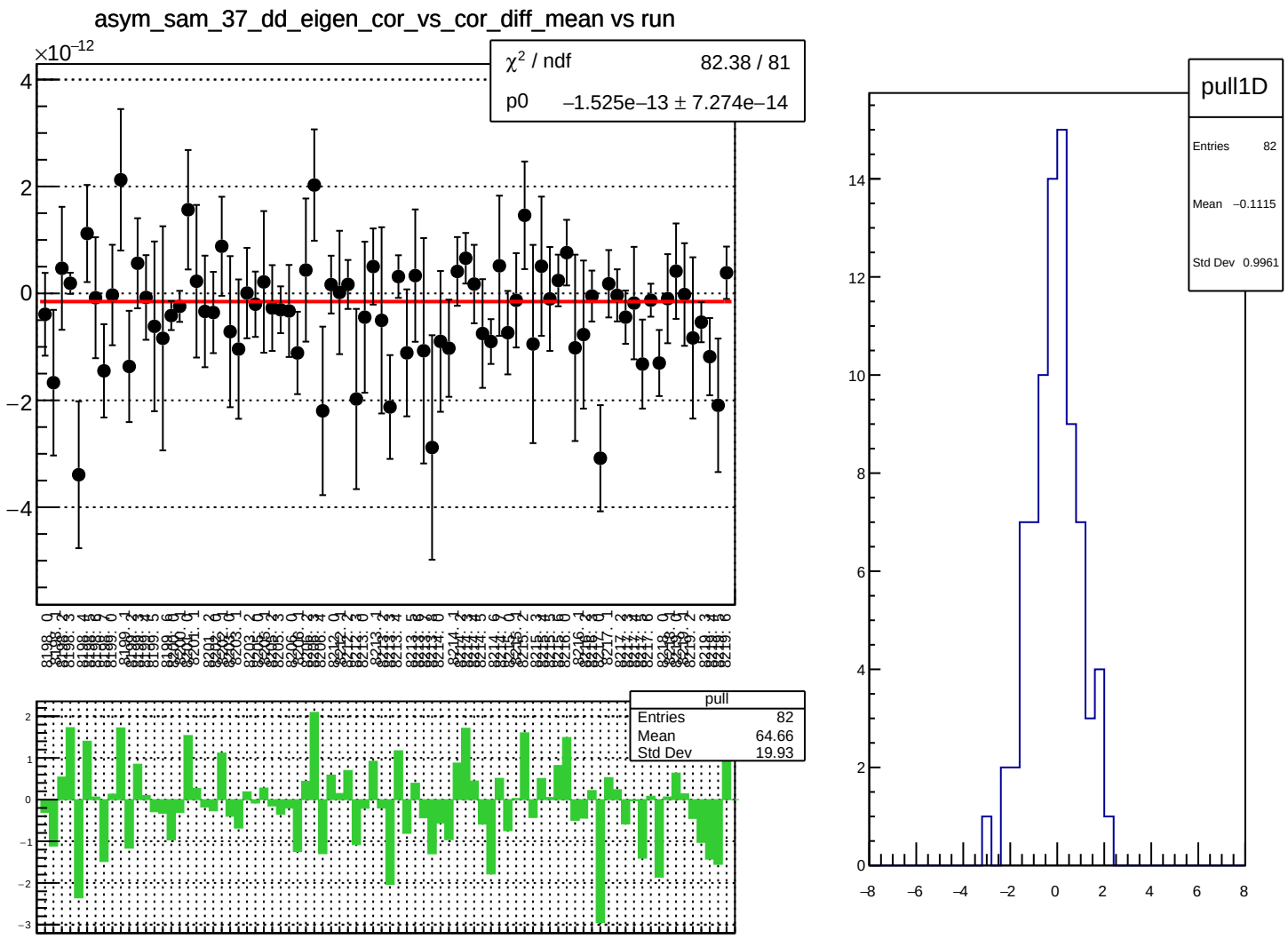

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.27 / 81
p0 0.04582 ± 0.03304
pull
Entries 82
Mean 66.09
Std Dev 28.83
pull1D
Entries 82
Mean 0.03865
Std Dev 0.9762

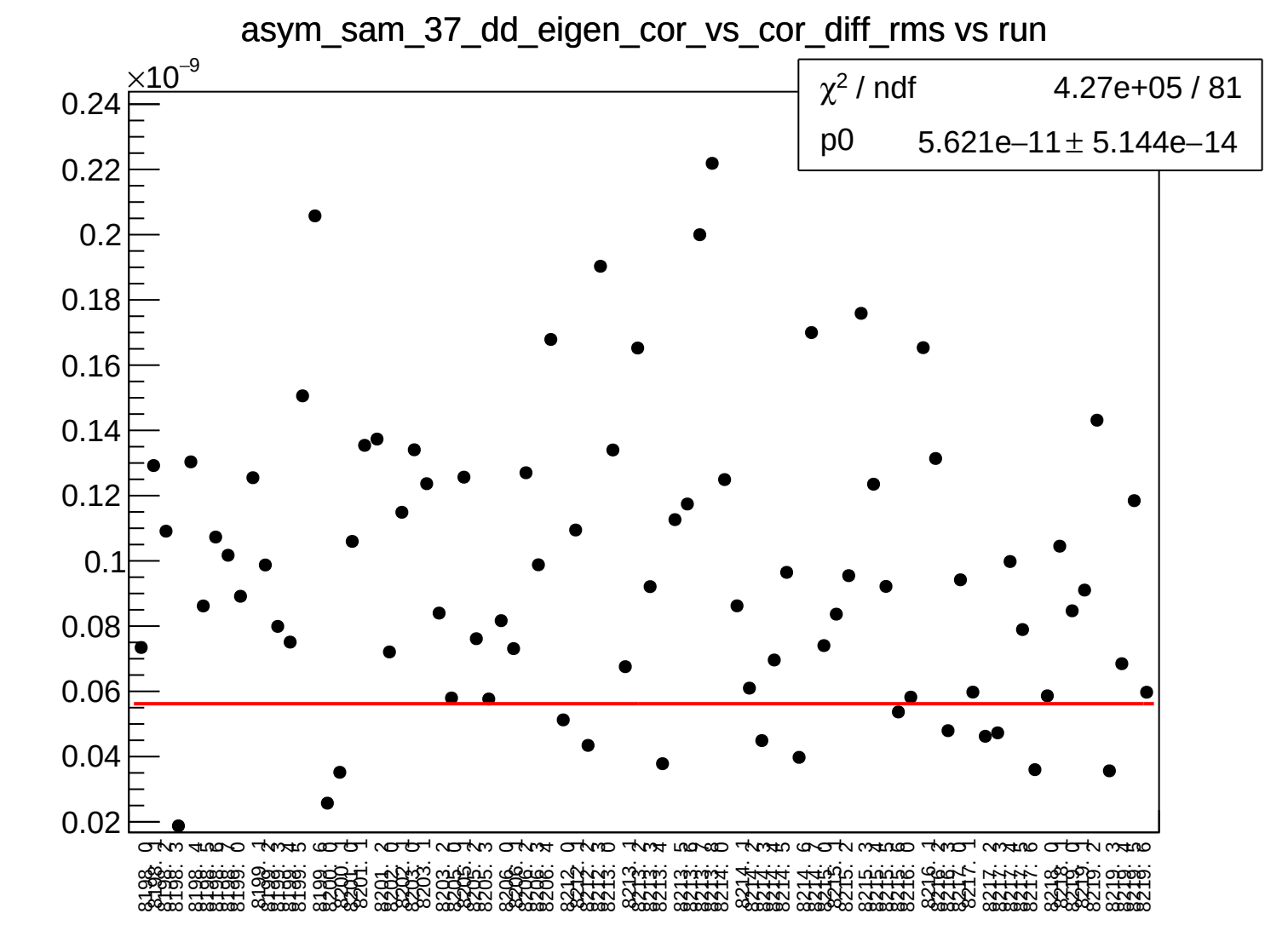

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.98e+05 / 81
p0 26.87 ± 0.02336
140
120
100
80
60
40
20

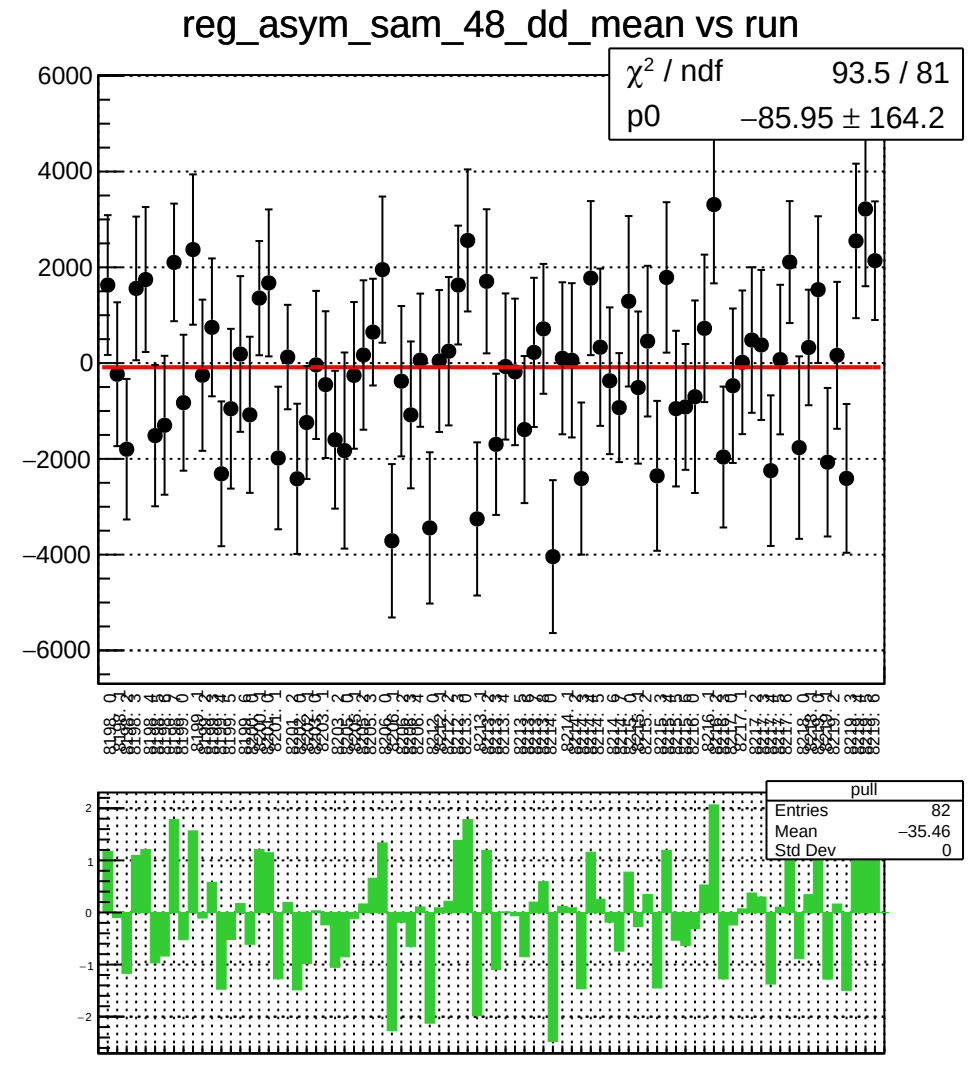

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.27 / 81
p0 0.04582 ± 0.03304
pull
Entries 82
Mean 66.09
Std Dev 28.83

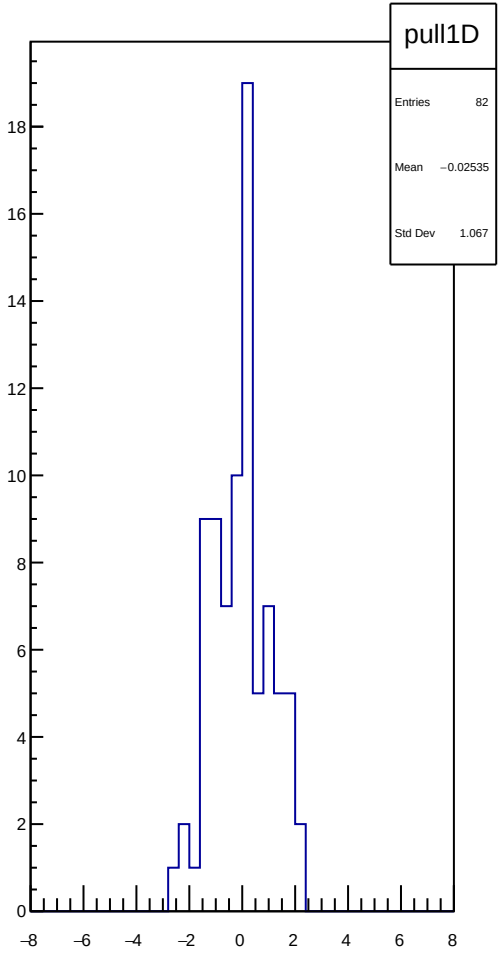

pull1D
Entries 82
Mean 0.03865
Std Dev 0.9762

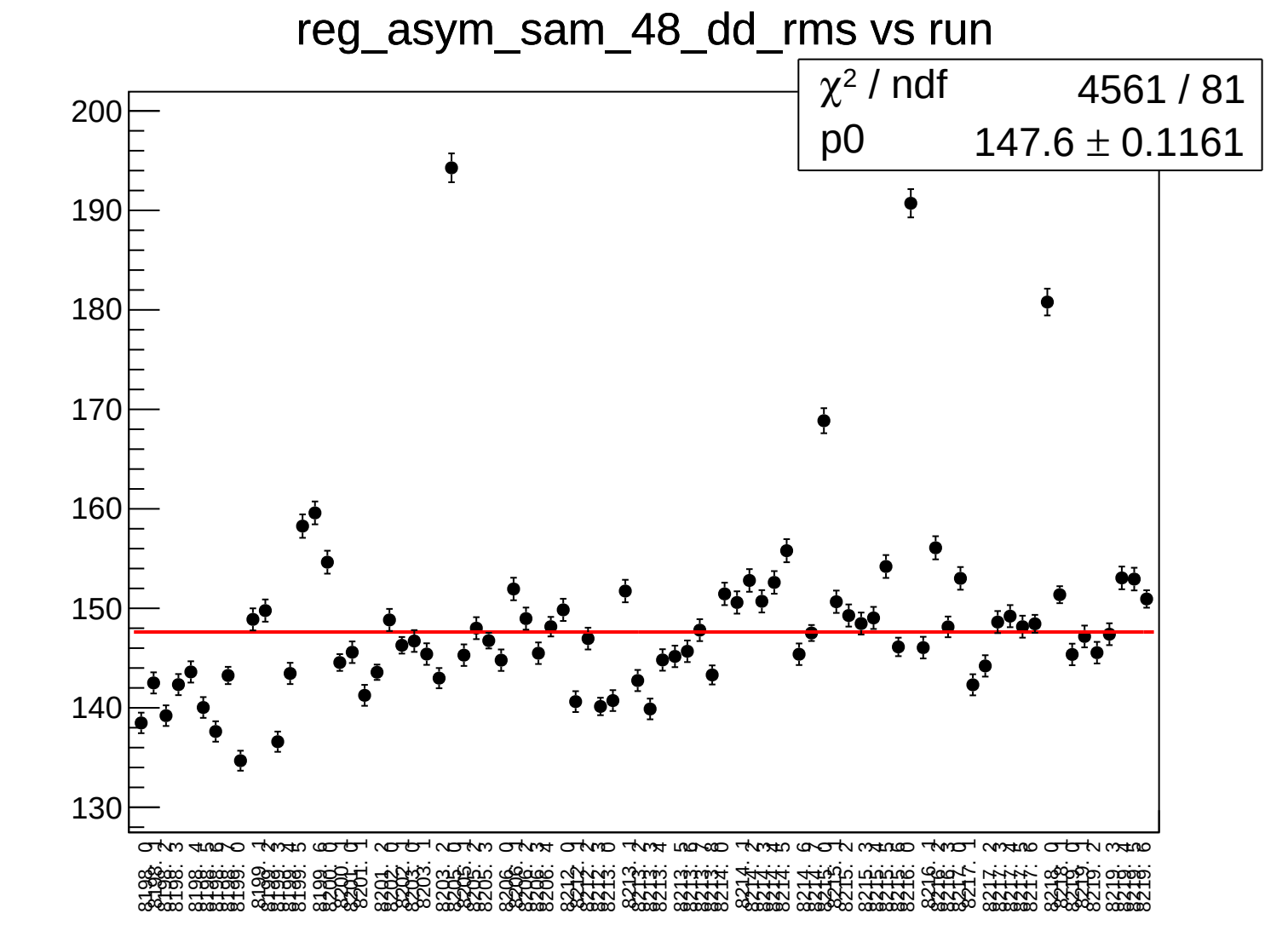

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.98e+05 / 81
p0 26.87 ± 0.02336
140
120
100
80
60
40
20

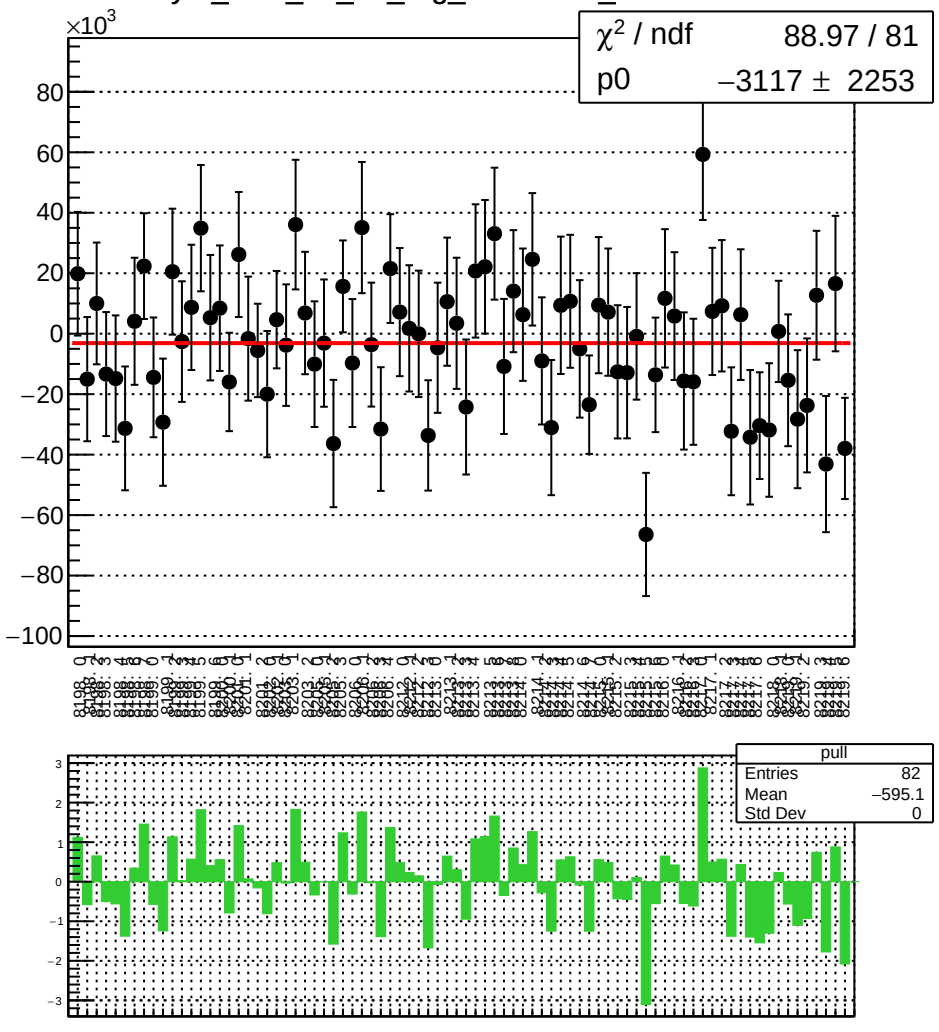

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.38 / 81
p0 −1.525e−13 ± 7.274e−14
pull
Entries 82
Mean 64.66
Std Dev 19.93
pull1D
Entries 82
Mean −0.1115
Std Dev 0.9961

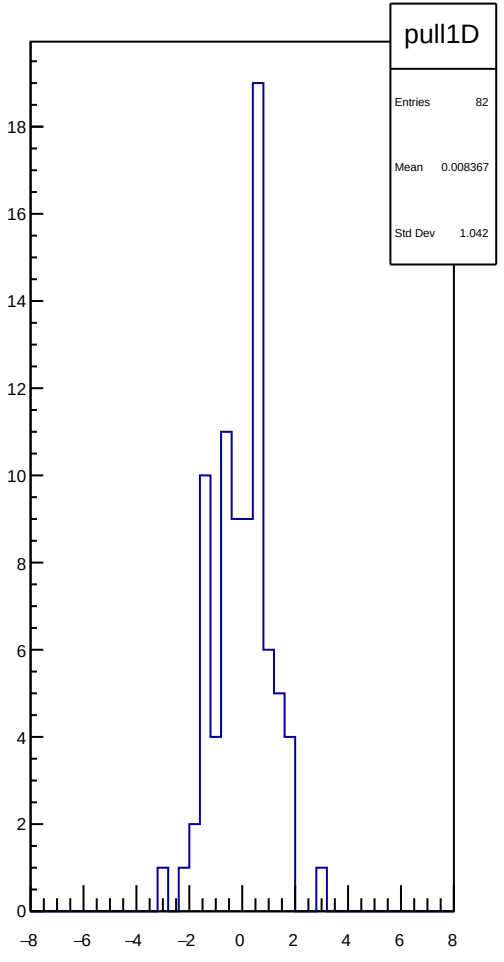

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.27e+05 / 81
p0 5.621e−11 ± 5.144e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

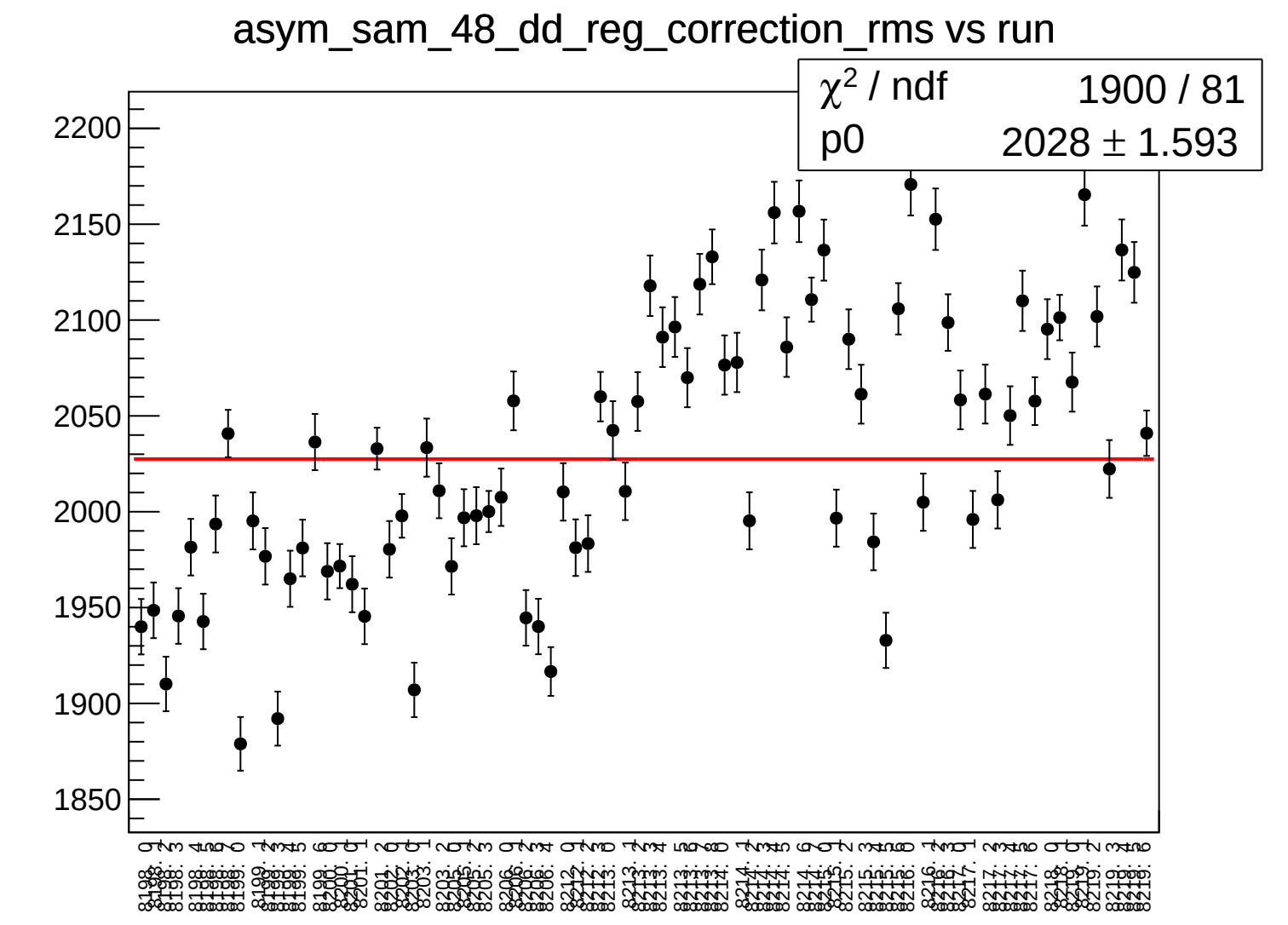

reg_asym_sam_48_dd_mean vs run
χ² / ndf 93.5 / 81
p0 −85.95 ± 164.2
pull
Entries 82
Mean −35.46
Std Dev 0

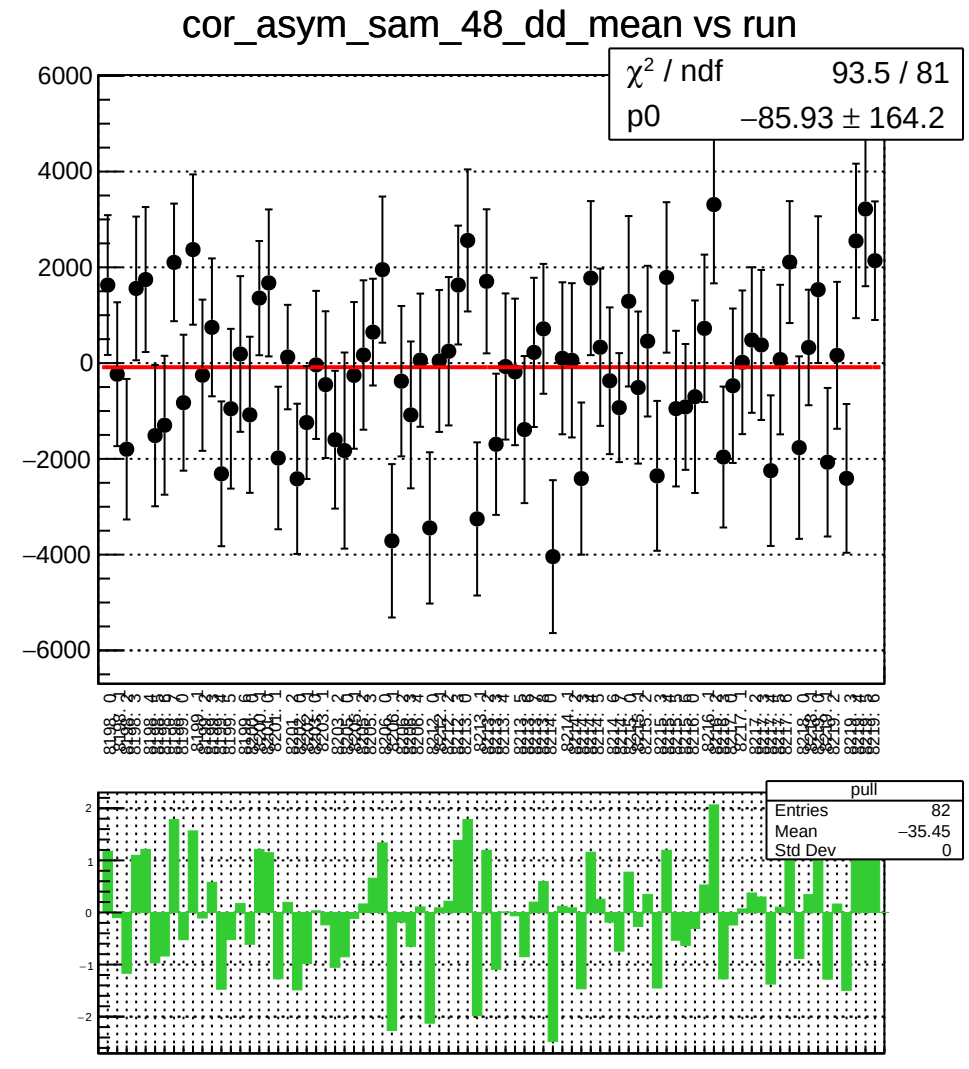

pull1D
Entries 82
Mean −0.02535
Std Dev 1.067

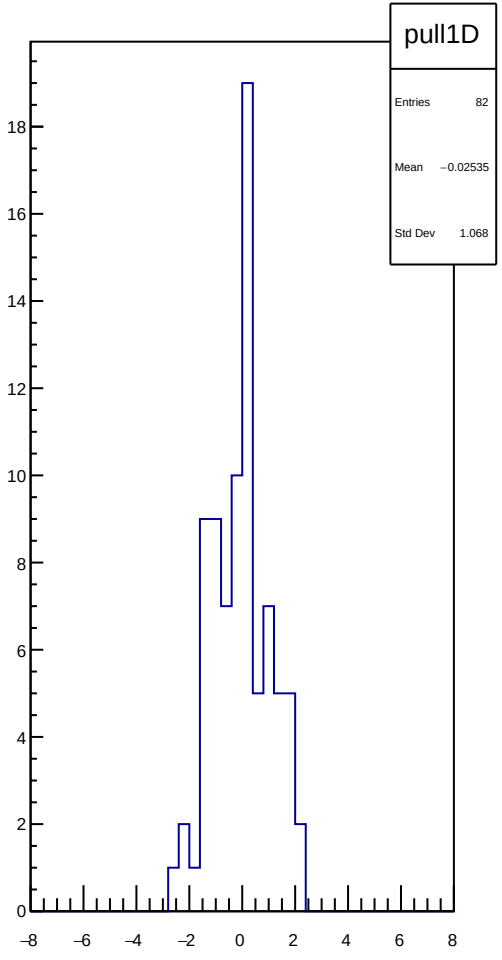

reg_asym_sam_48_dd_rms vs run
χ² / ndf 4561 / 81
p0 147.6 ± 0.1161
200
190
180
170
160
150
140
130

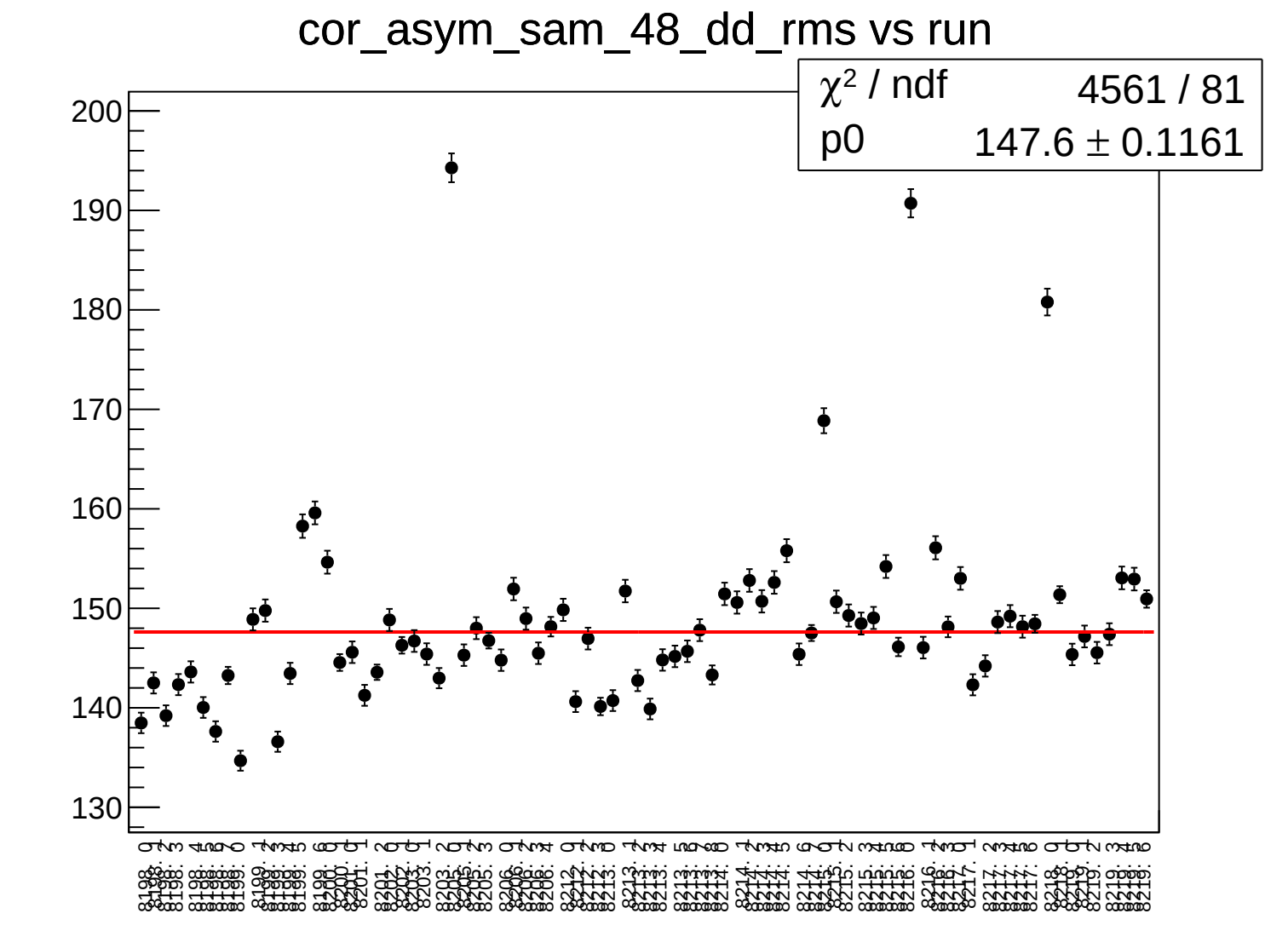

asym_sam_48_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 88.97 / 81
p0 −3117 ± 2253
pull
Entries 82
Mean −595.1
Std Dev 0

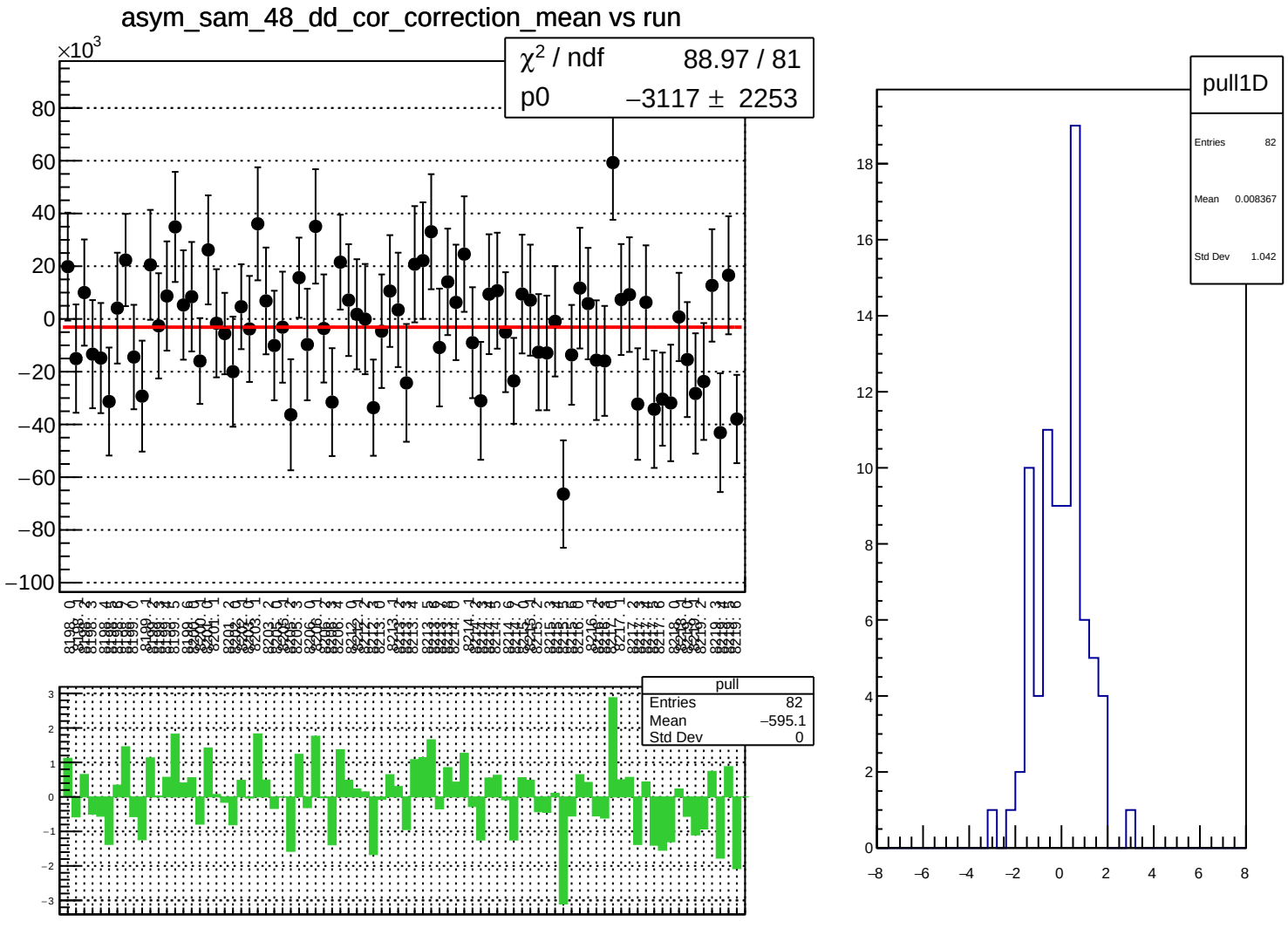

pull1D
Entries 82
Mean 0.008367
Std Dev 1.042

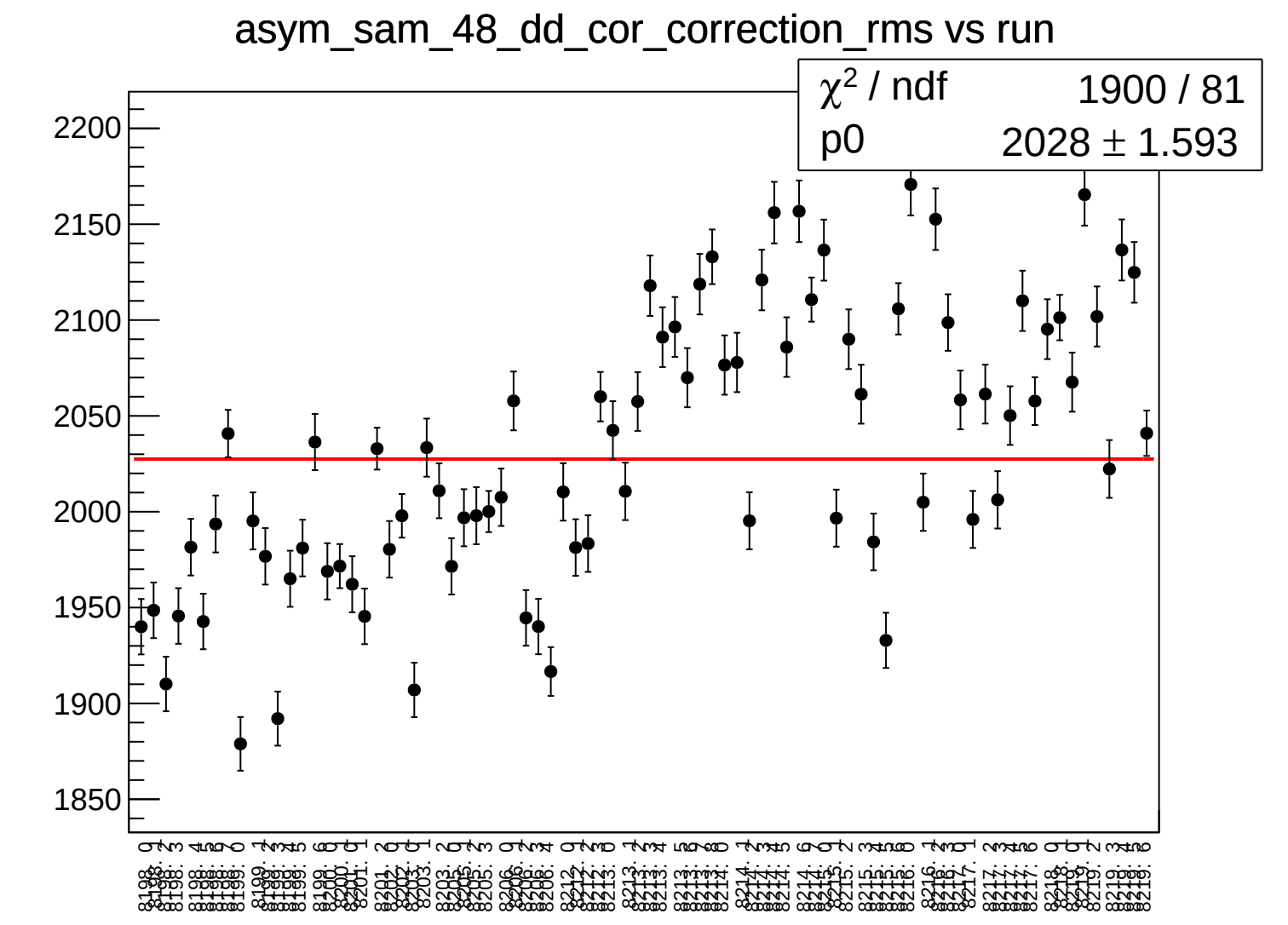

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1900 / 81
p0 2028 ± 1.593
2200
2150
2100
2050
2000
1950
1900
1850

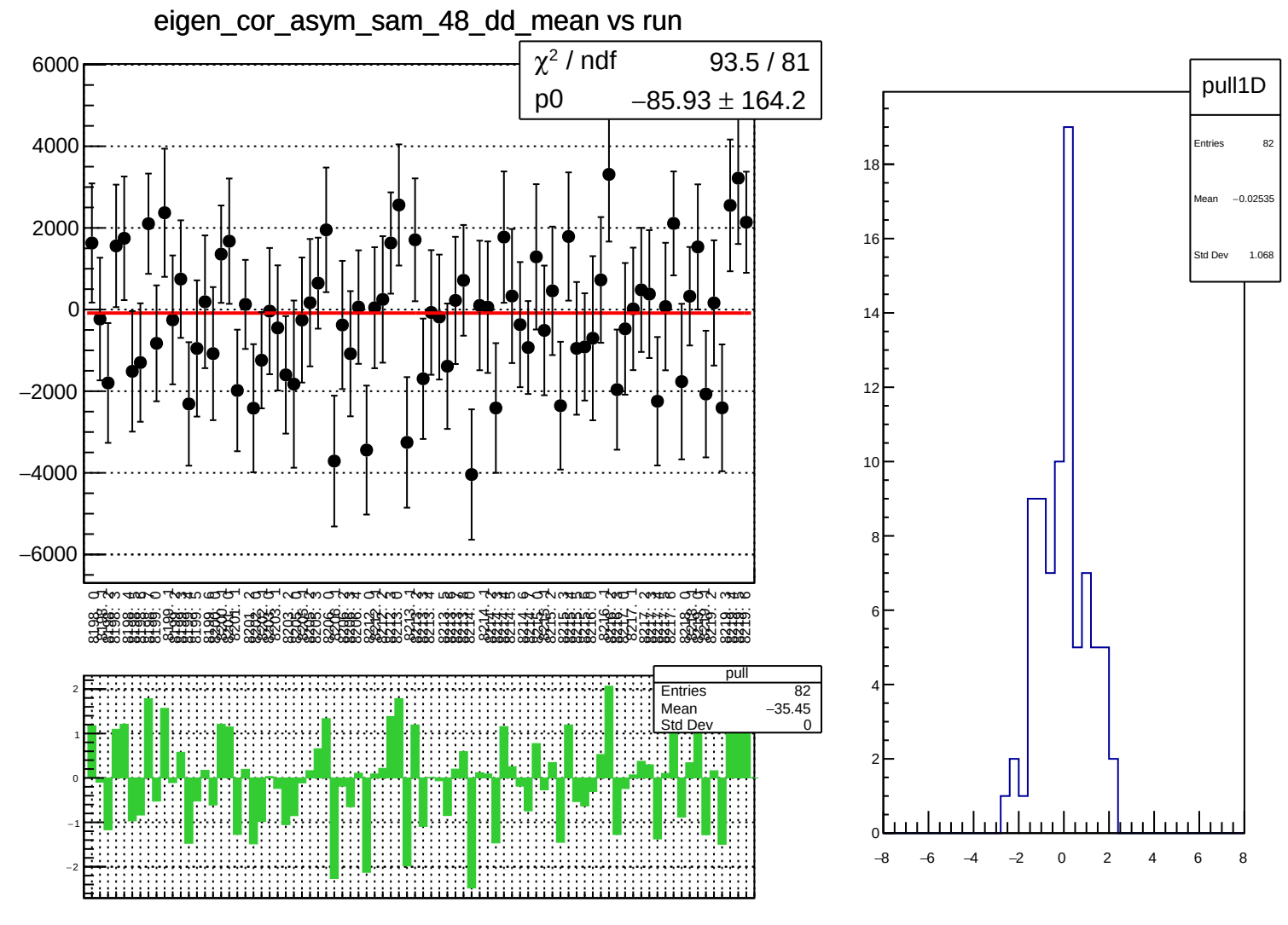

cor_asym_sam_48_dd_mean vs run
χ² / ndf 93.5 / 81
p0 −85.93 ± 164.2
pull
Entries 82
Mean −35.45
Std Dev 0

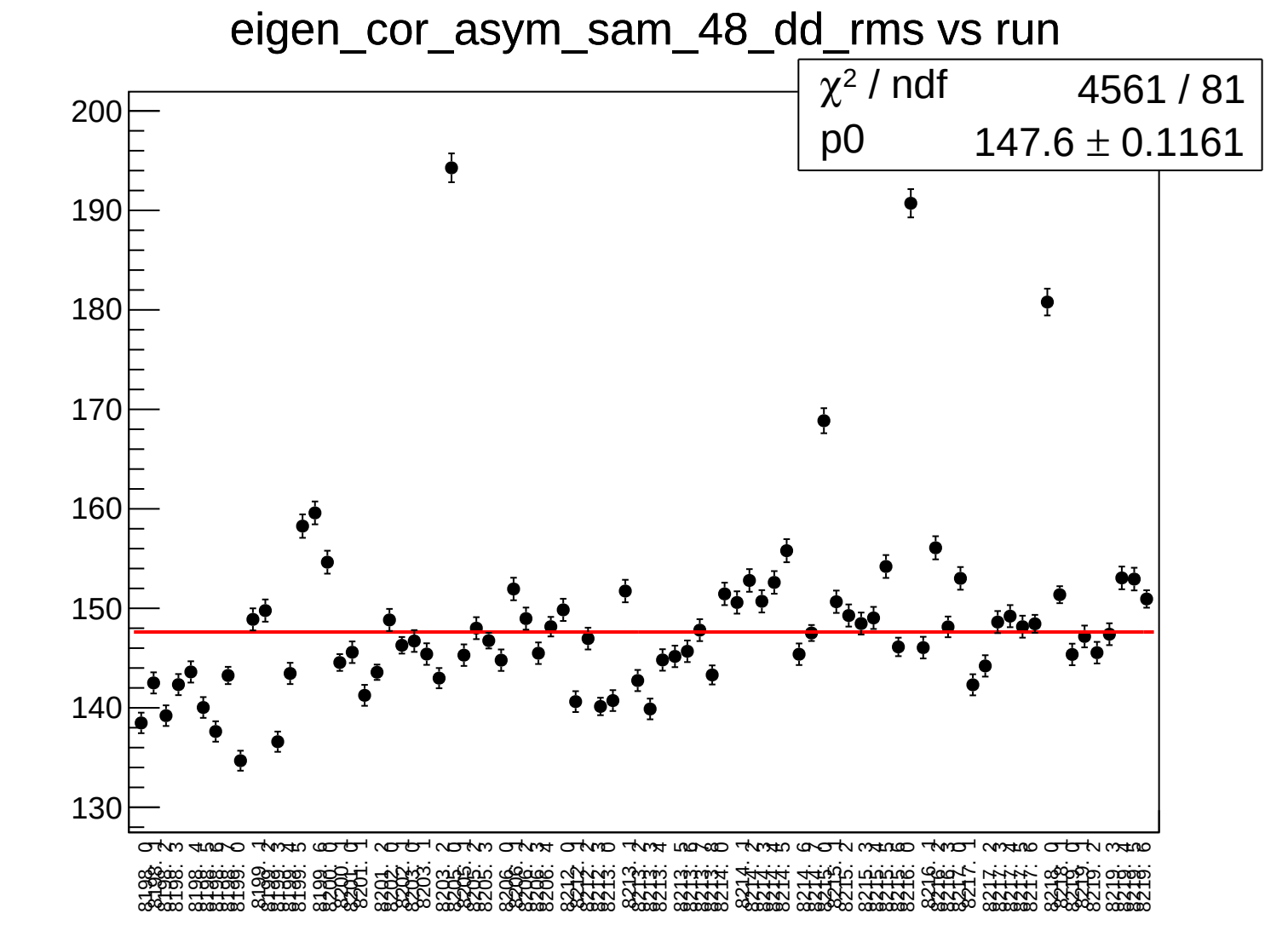

pull1D
Entries 82
Mean −0.02535
Std Dev 1.068

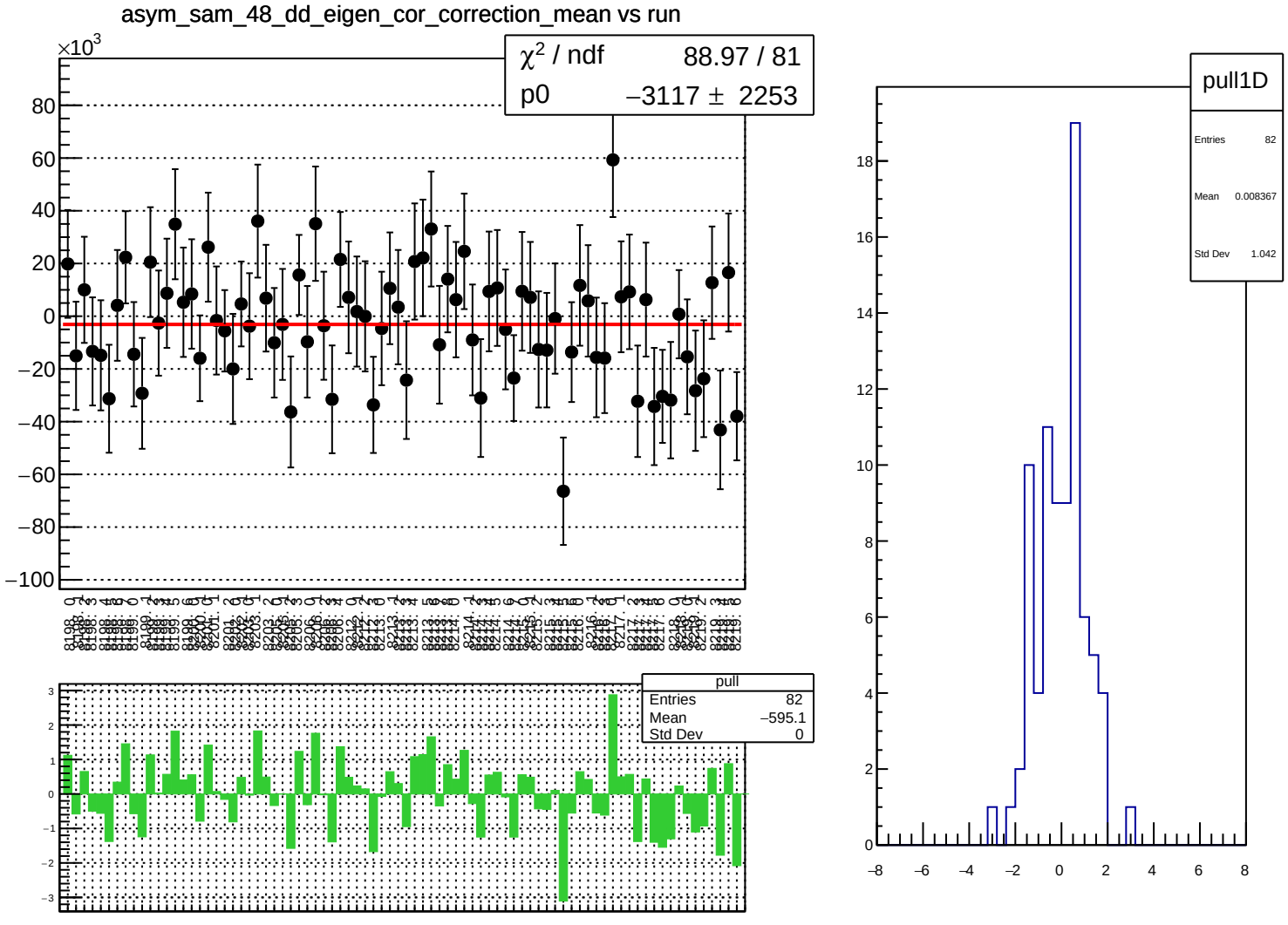

cor_asym_sam_48_dd_rms vs run
χ² / ndf 4561 / 81
p0 147.6 ± 0.1161
200
190
180
170
160
150
140
130

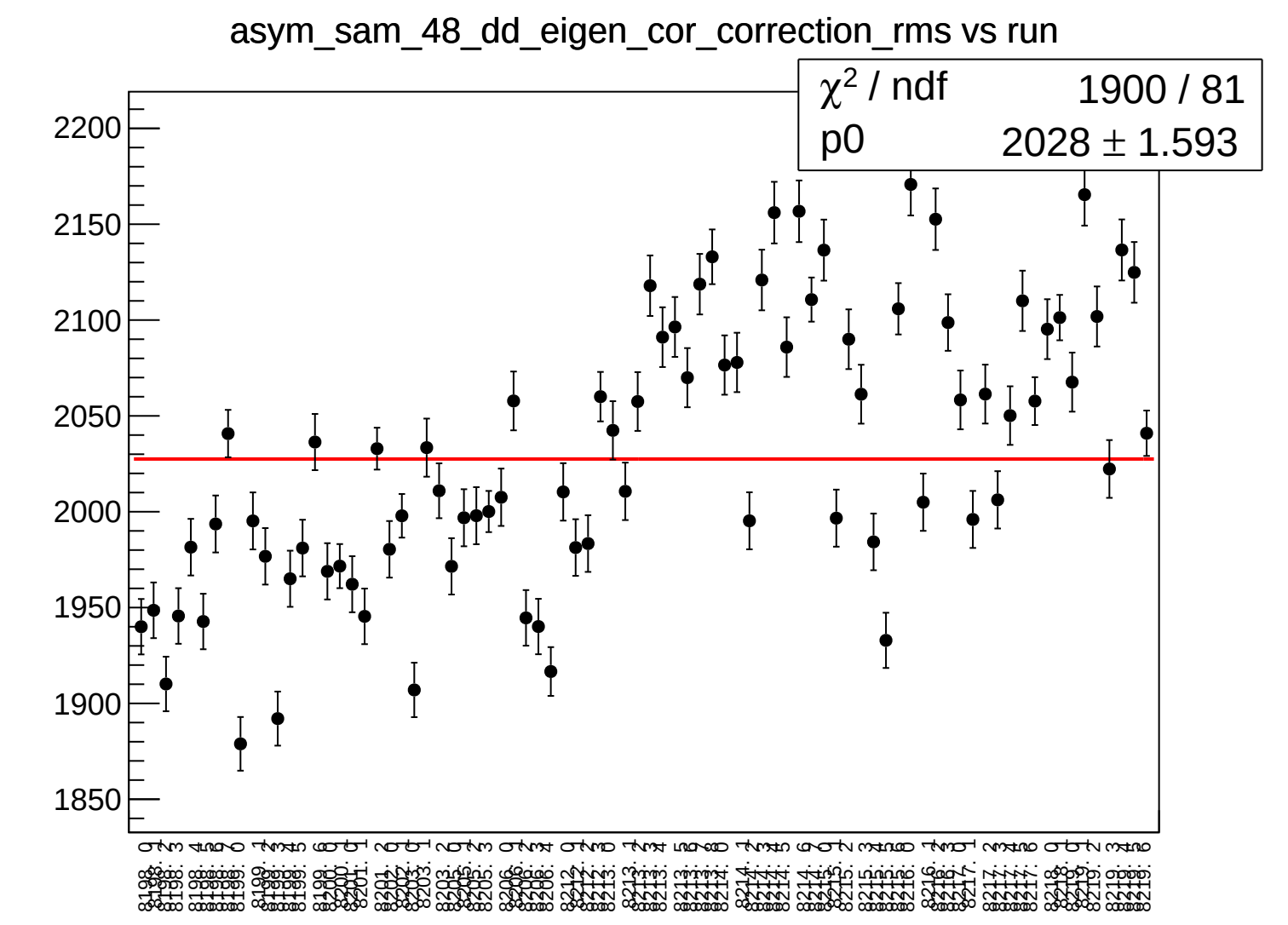

asym_sam_48_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 88.97 / 81
p0 −3117 ± 2253
pull
Entries 82
Mean −595.1
Std Dev 0
pull1D
Entries 82
Mean 0.008367
Std Dev 1.042

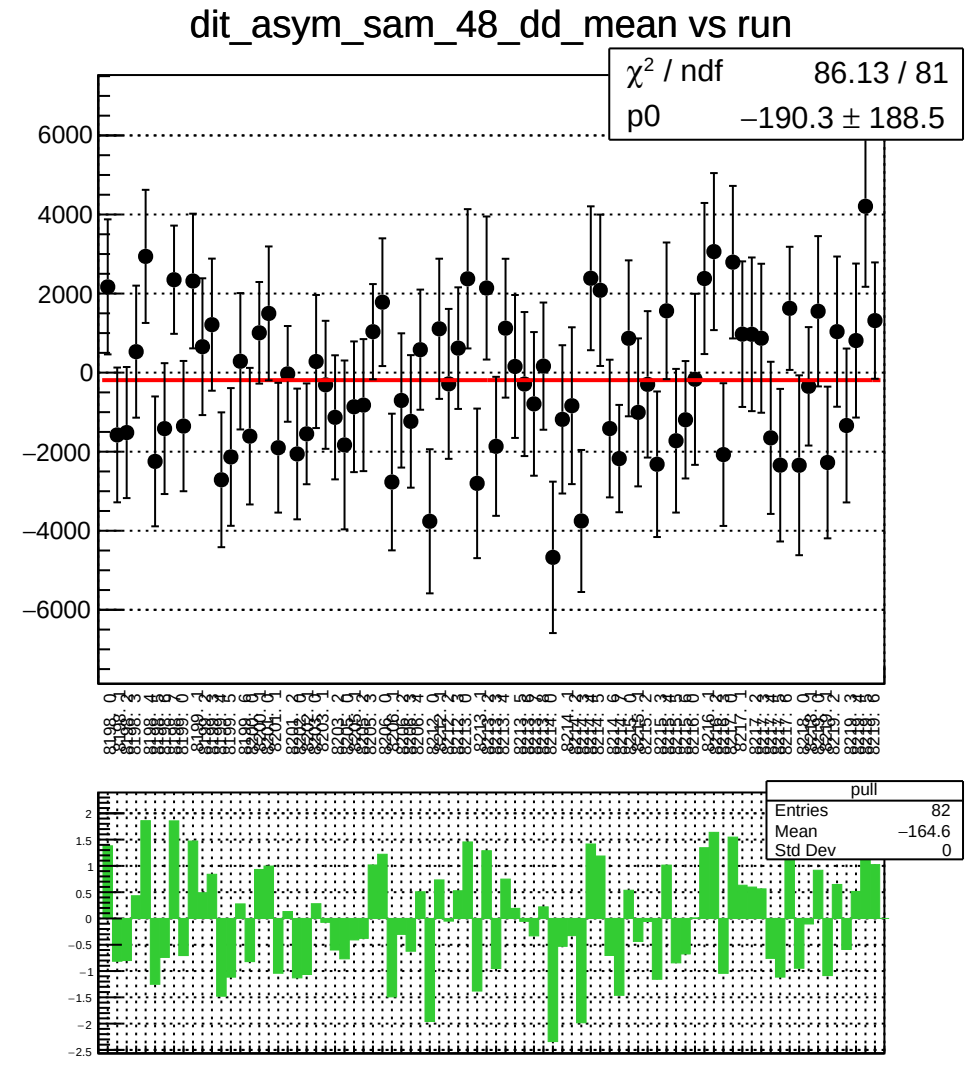

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1900 / 81
p0 2028 ± 1.593
2200
2150
2100
2050
2000
1950
1900
1850

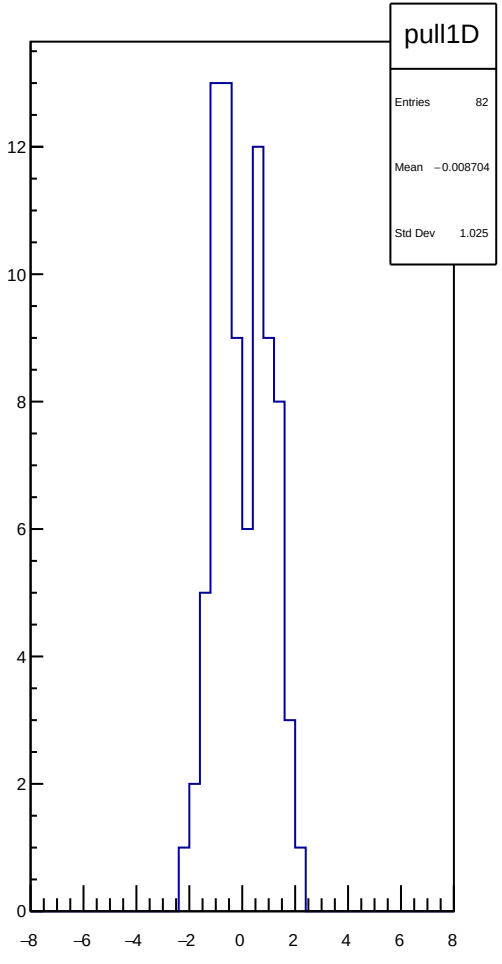

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 93.5 / 81
p0 −85.93 ± 164.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −35.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.02535
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

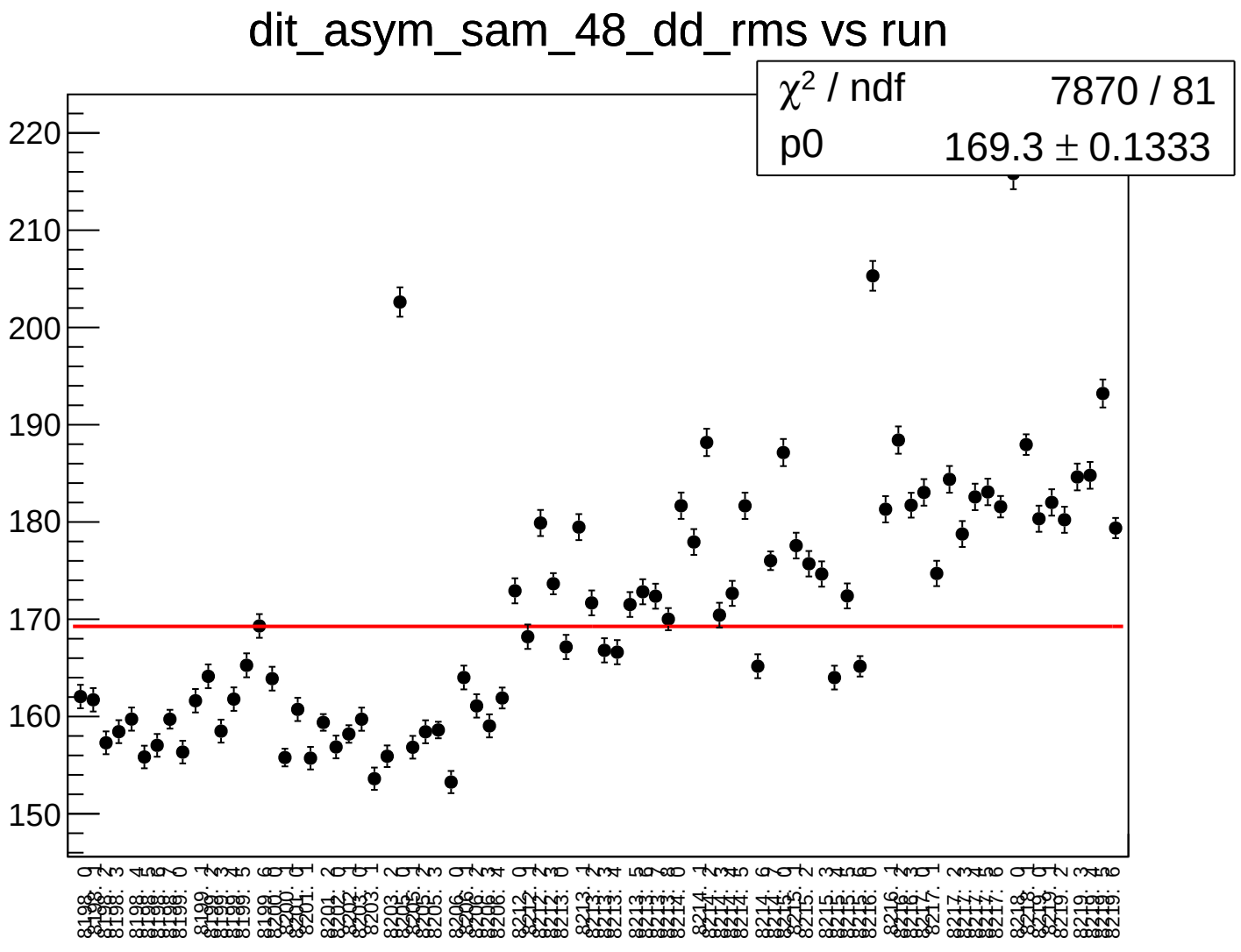

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 4561 / 81
p0 147.6 ± 0.1161
200
190
180
170
160
150
140
130

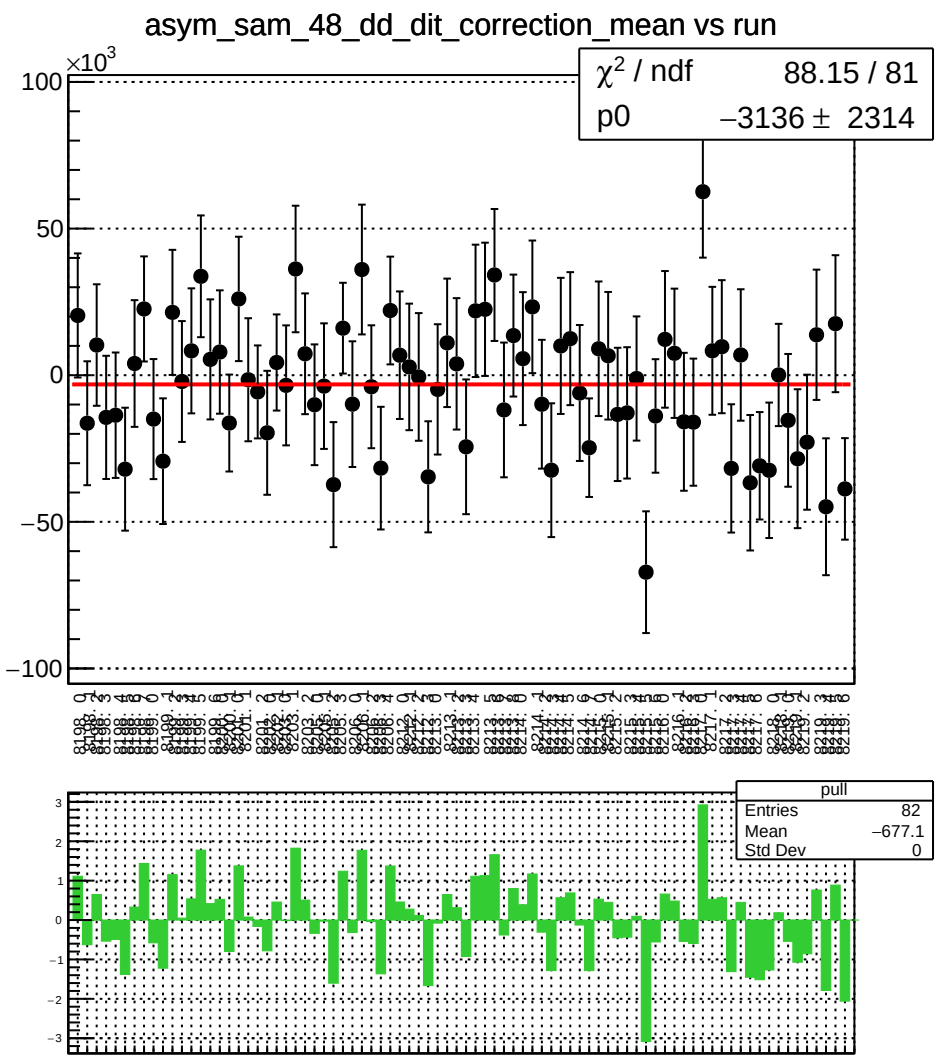

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 88.97 / 81
p0 −3117 ± 2253
pull
Entries 82
Mean −595.1
Std Dev 0
pull1D
Entries 82
Mean 0.008367
Std Dev 1.042

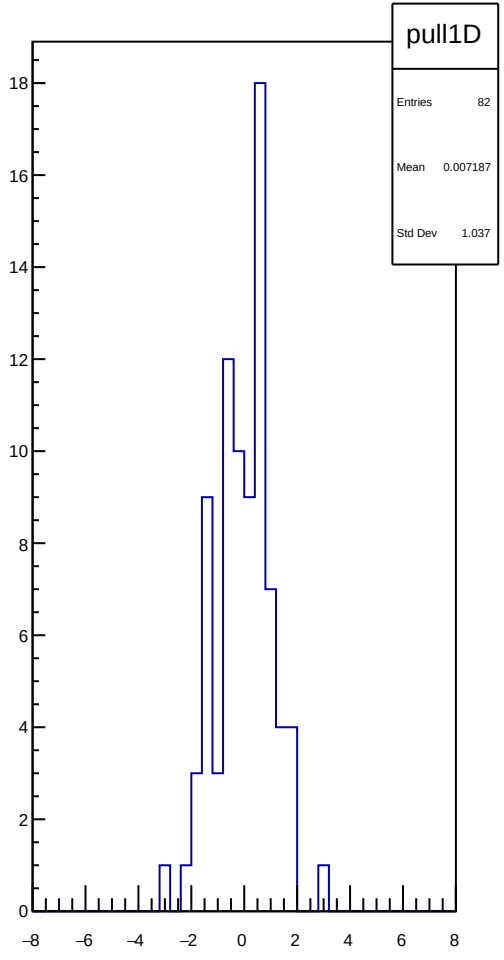

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1900 / 81
p0 2028 ± 1.593
2200
2150
2100
2050
2000
1950
1900
1850

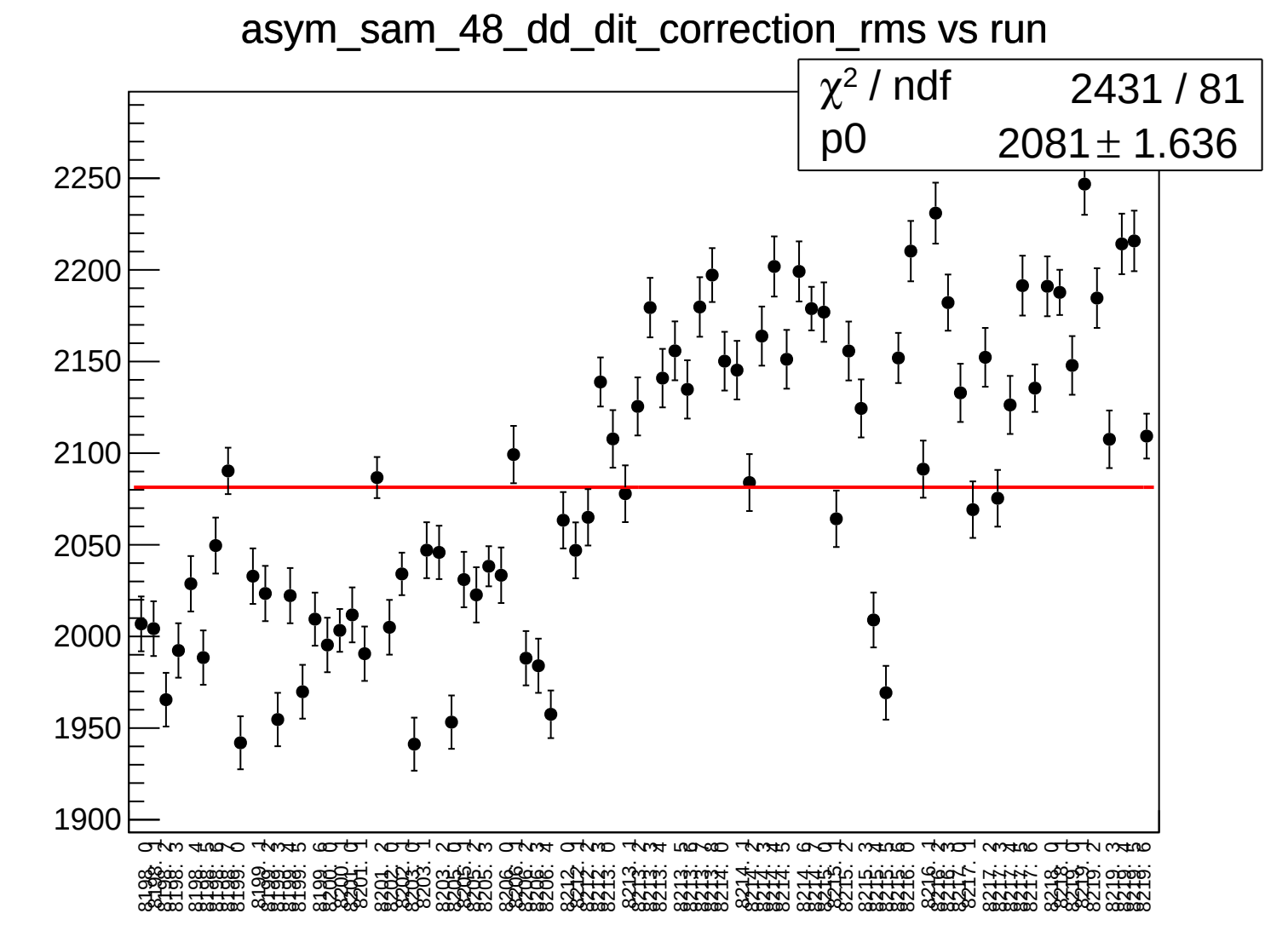

dit_asym_sam_48_dd_mean vs run
χ² / ndf 86.13 / 81
p0 −190.3 ± 188.5
pull
Entries 82
Mean −164.6
Std Dev 0

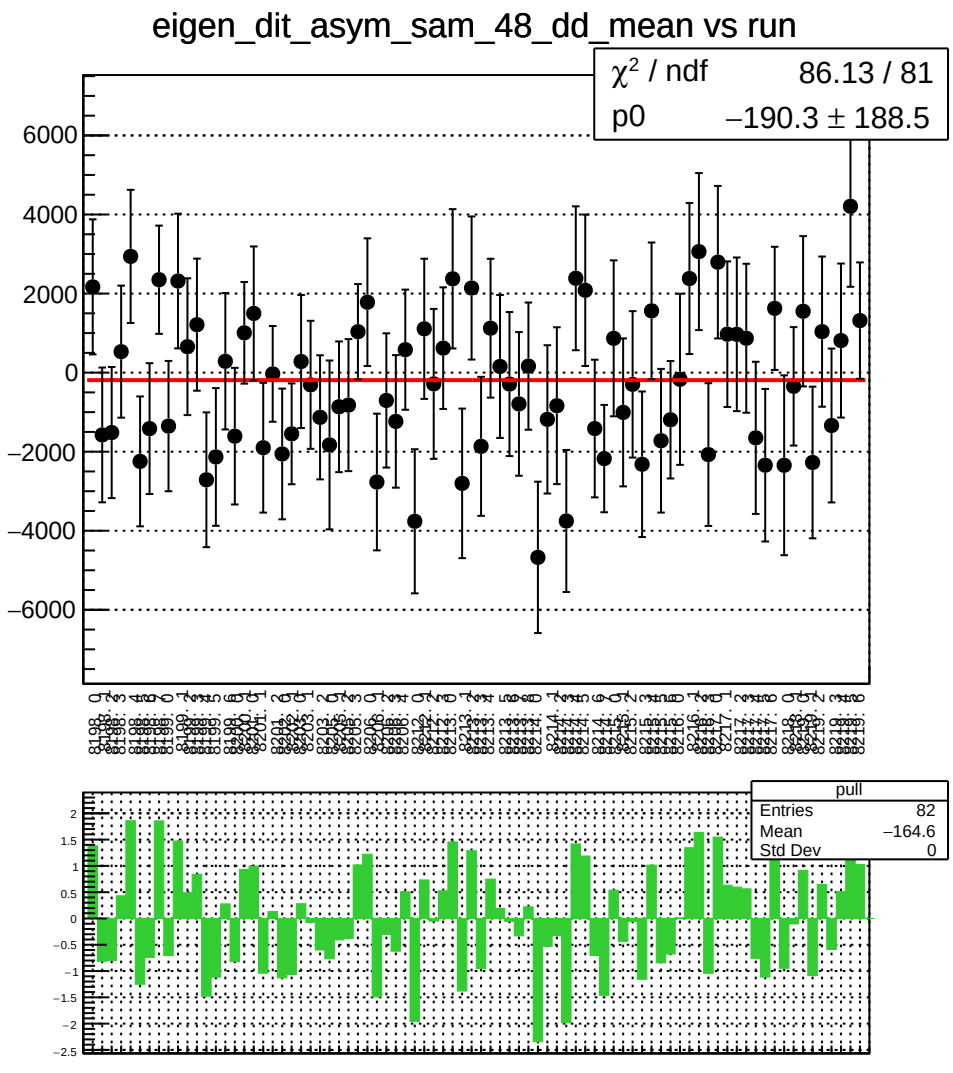

pull1D
Entries 82
Mean −0.008704
Std Dev 1.025

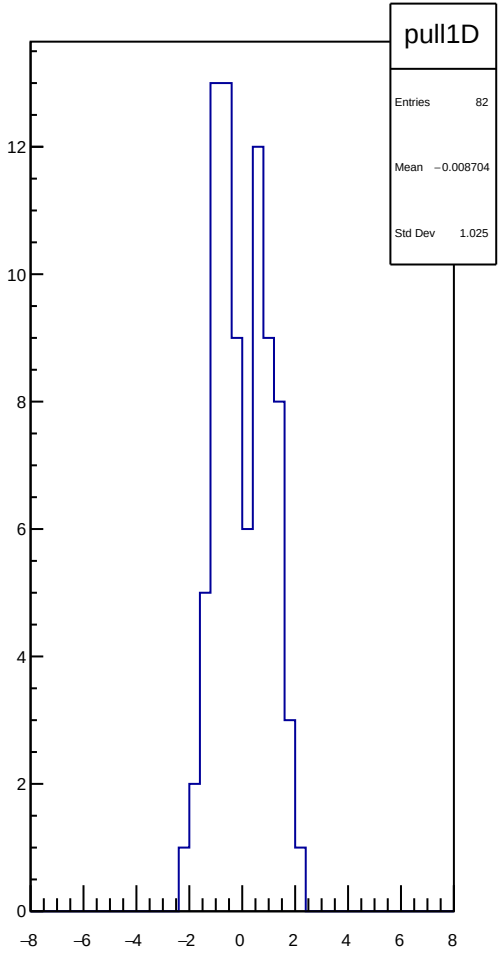

dit_asym_sam_48_dd_rms vs run
χ² / ndf 7870 / 81
p0 169.3 ± 0.1333
220
210
200
190
180
170
160
150

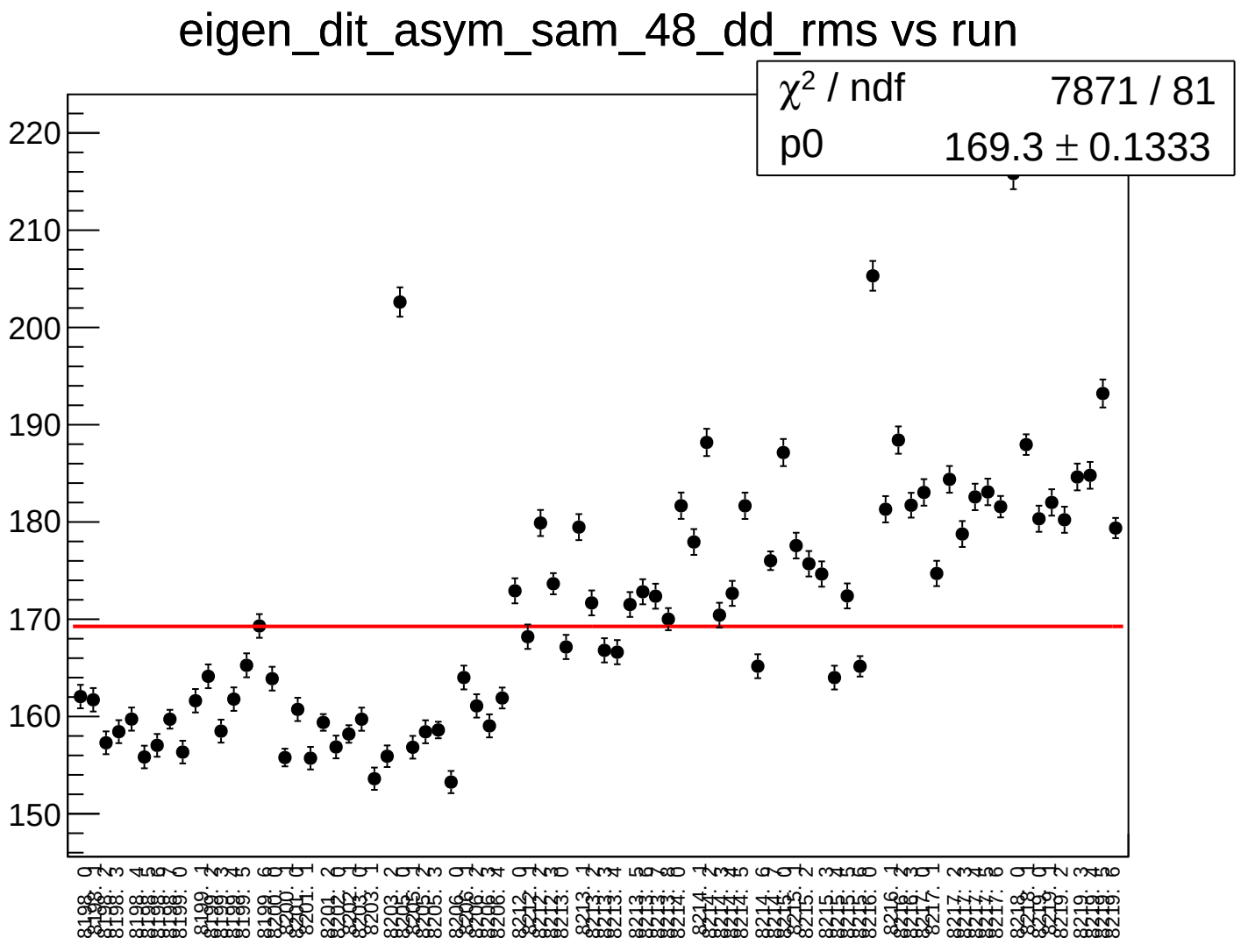

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.15 / 81
p0 −3136 ± 2314
100
50
0
−50
−100
pull
Entries 82
Mean −677.1
Std Dev 0
3
2
1
0
−1
−2
−3

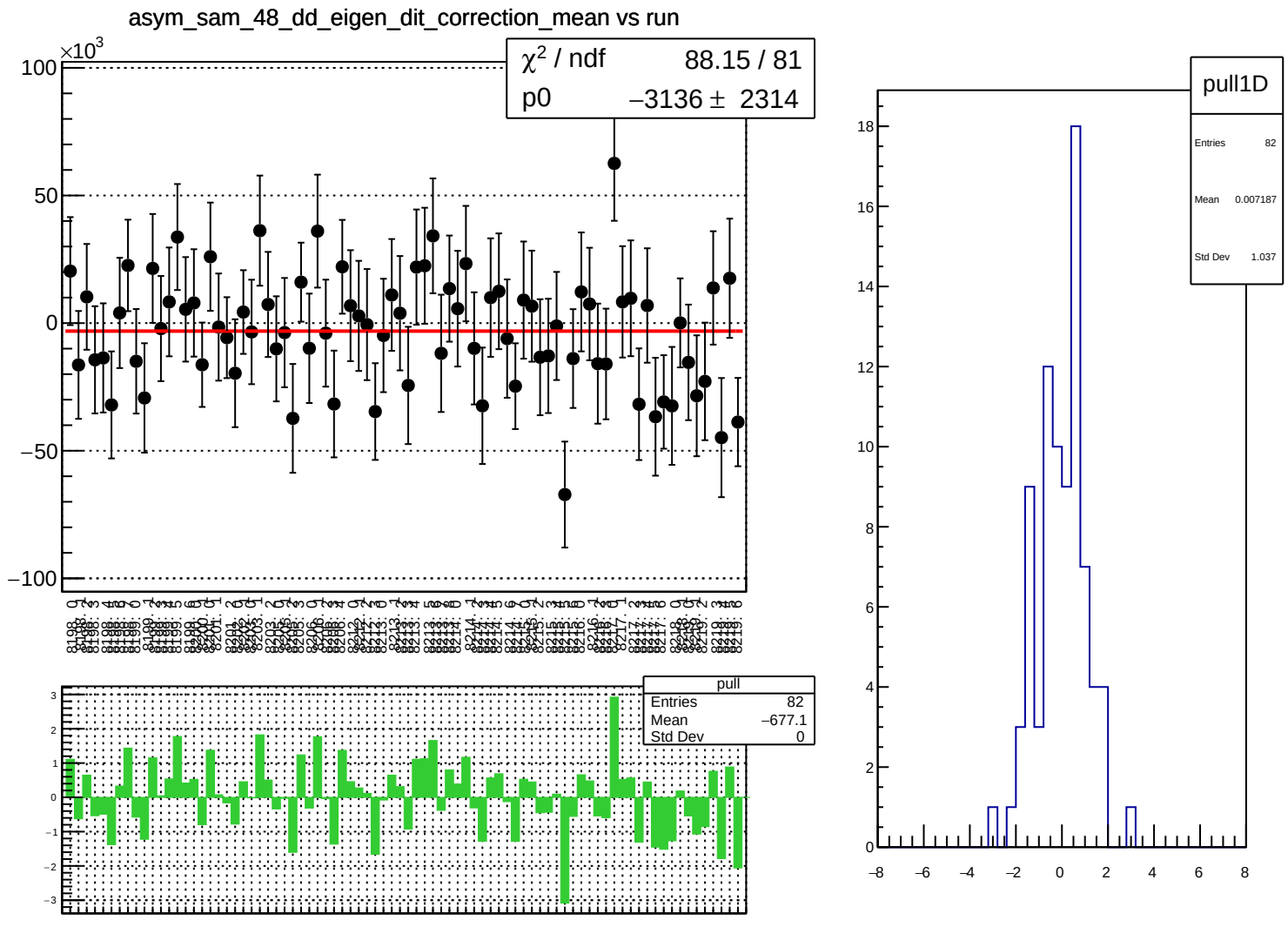

pull1D
Entries 82
Mean 0.007187
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

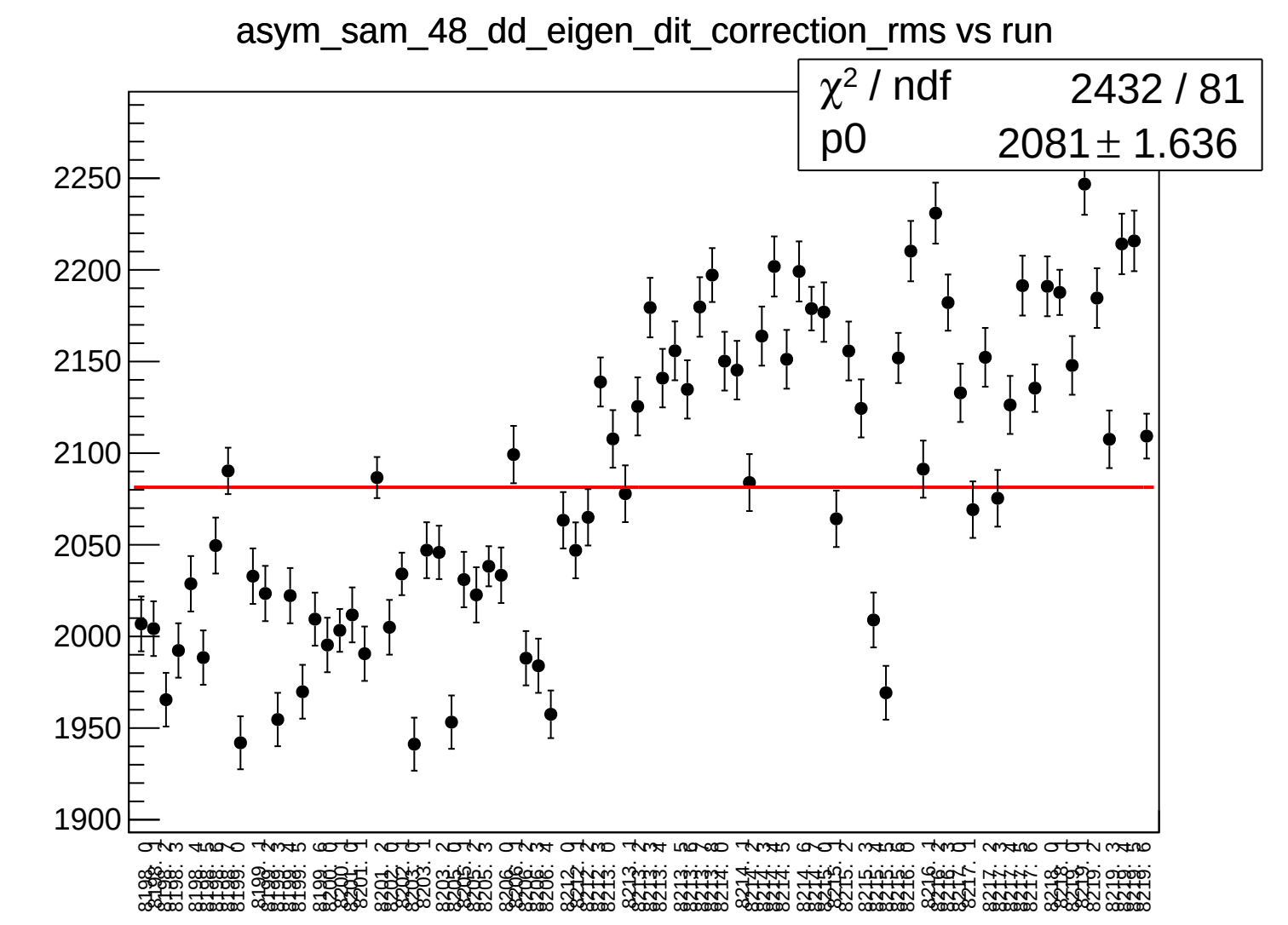

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2431 / 81
p0 2081 ± 1.636
2250
2200
2150
2100
2050
2000
1950
1900

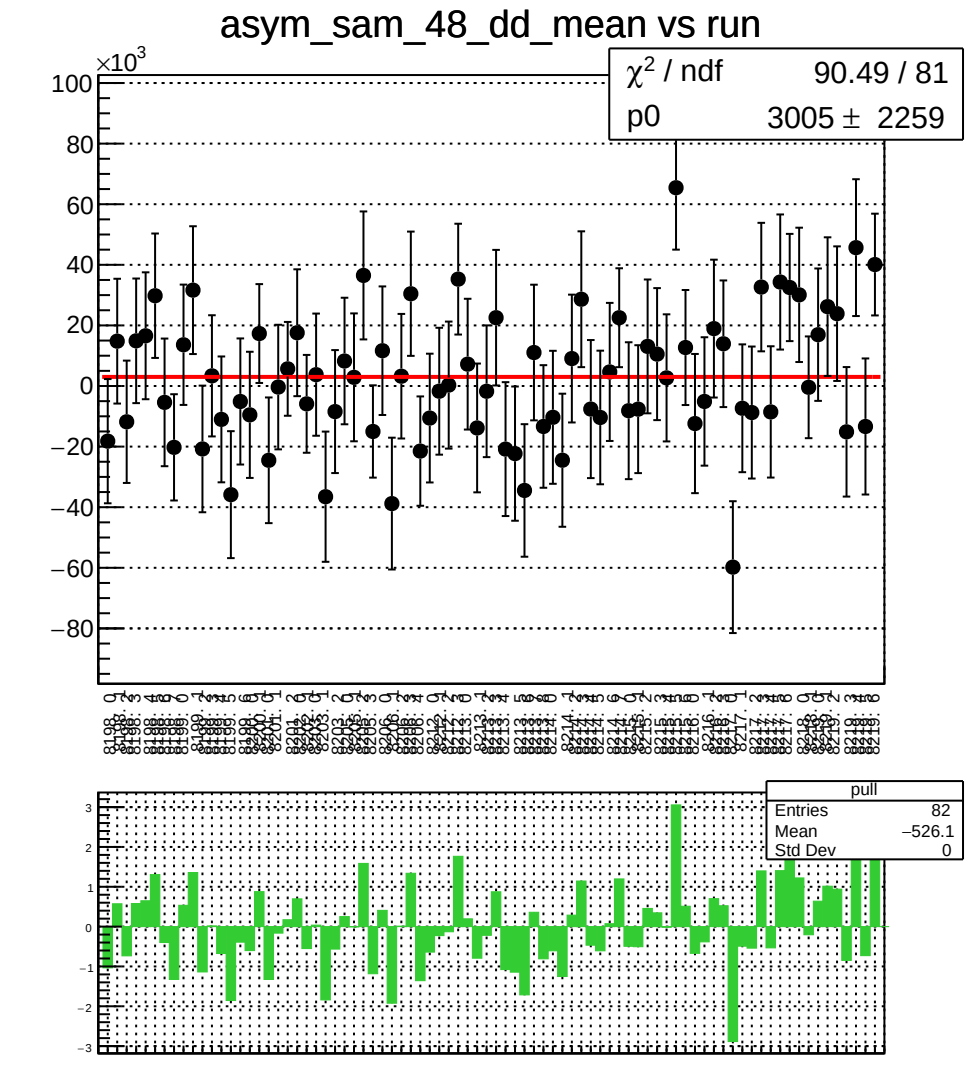

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 86.13 / 81
p0 −190.3 ± 188.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −164.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

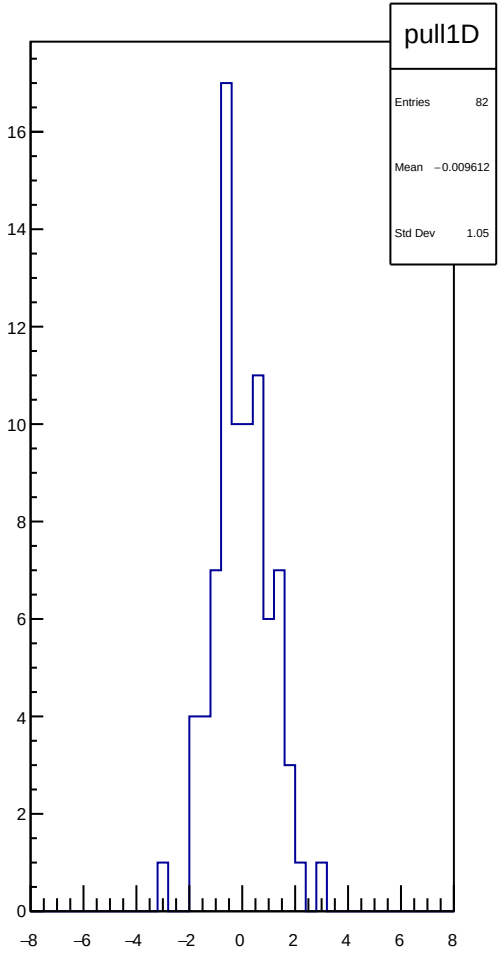

pull1D
Entries 82
Mean −0.008704
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

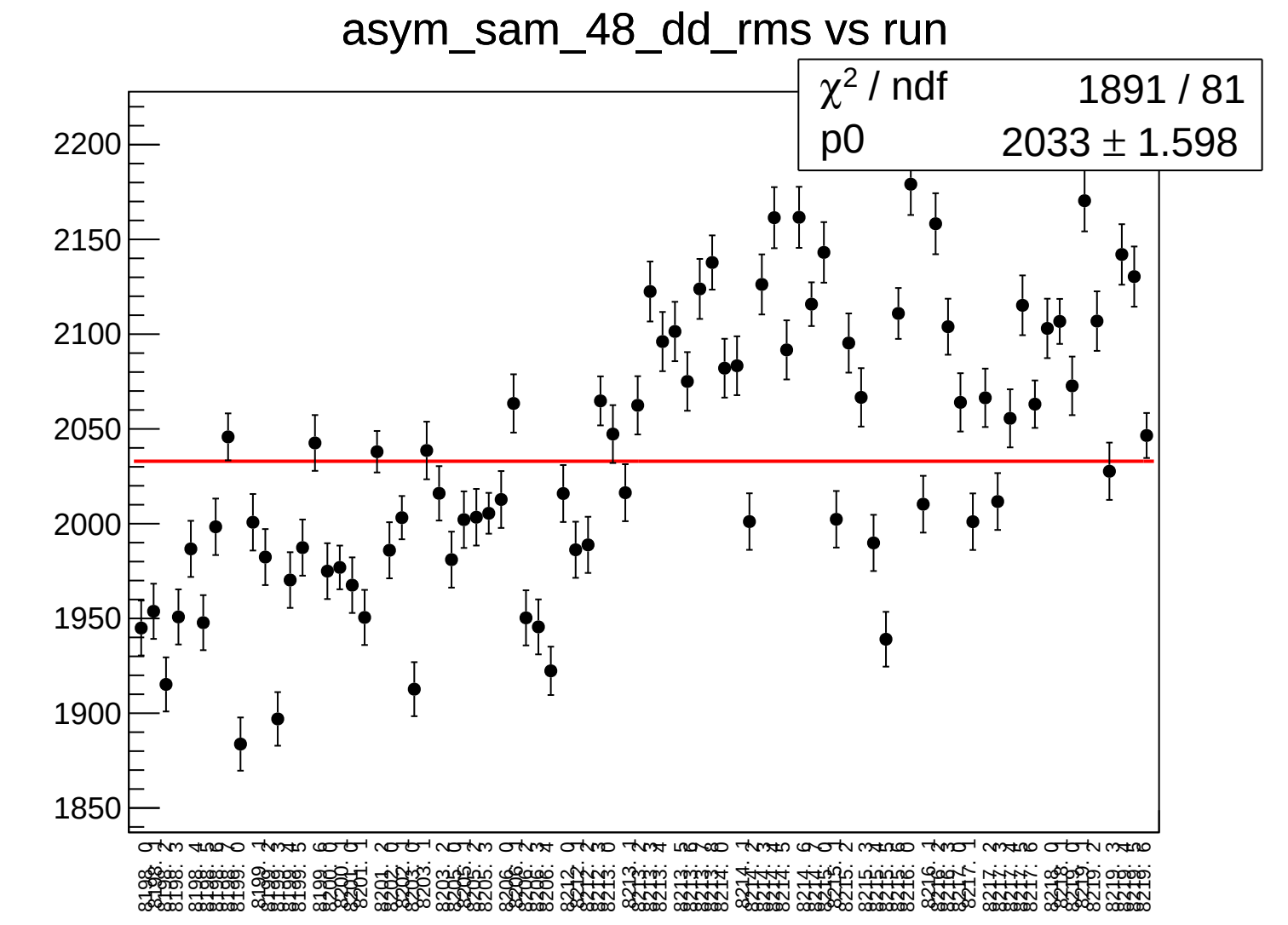

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 7871 / 81
p0 169.3 ± 0.1333
220
210
200
190
180
170
160
150

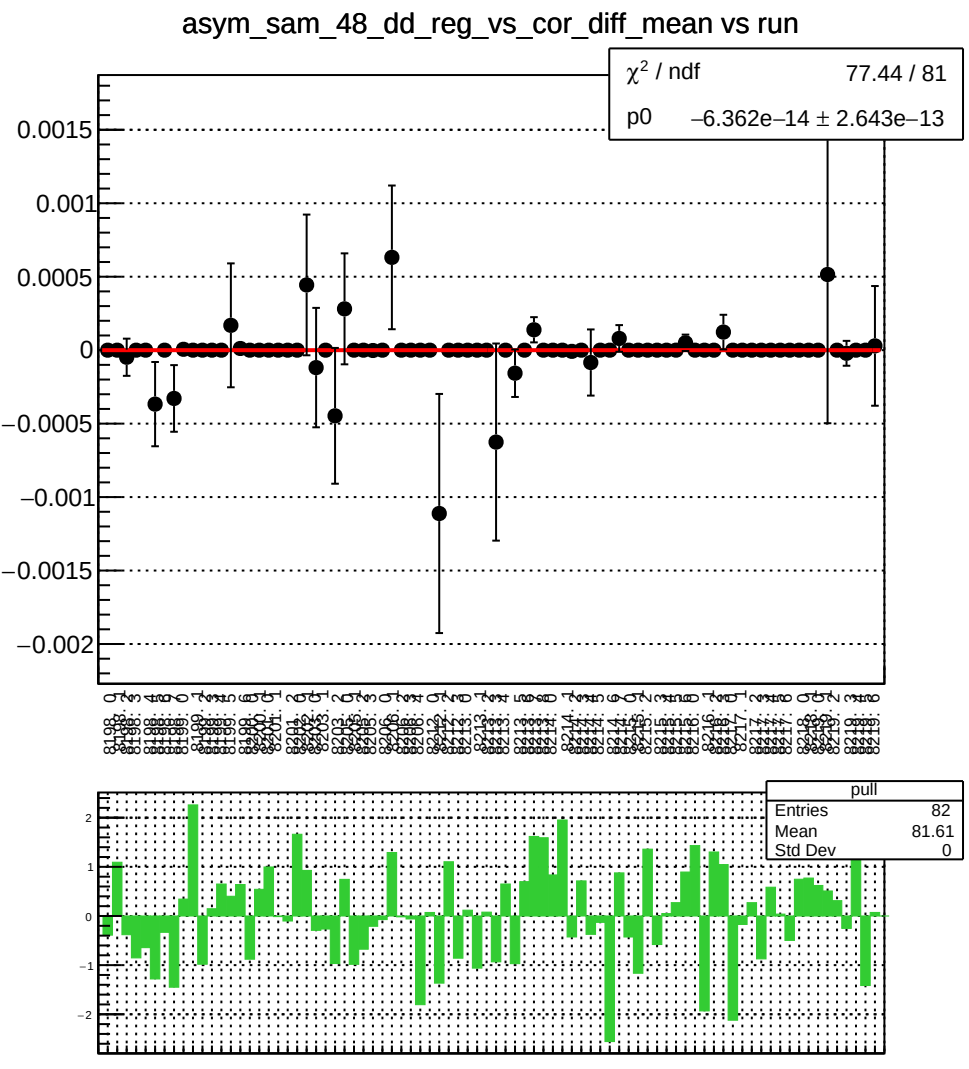

asym_sam_48_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.15 / 81
p0 −3136 ± 2314
100
50
0
−50
−100
pull
Entries 82
Mean −677.1
Std Dev 0
pull1D
Entries 82
Mean 0.007187
Std Dev 1.037

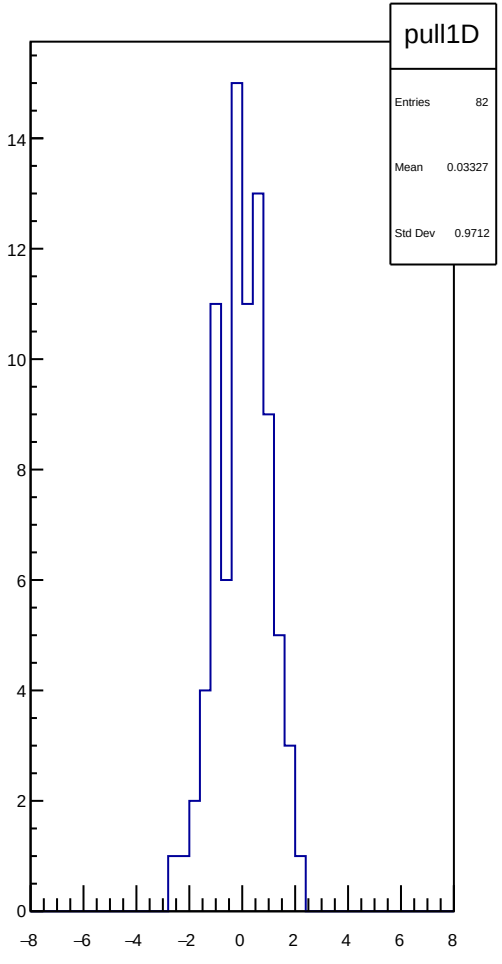

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2432 / 81
p0 2081 ± 1.636
2250
2200
2150
2100
2050
2000
1950
1900

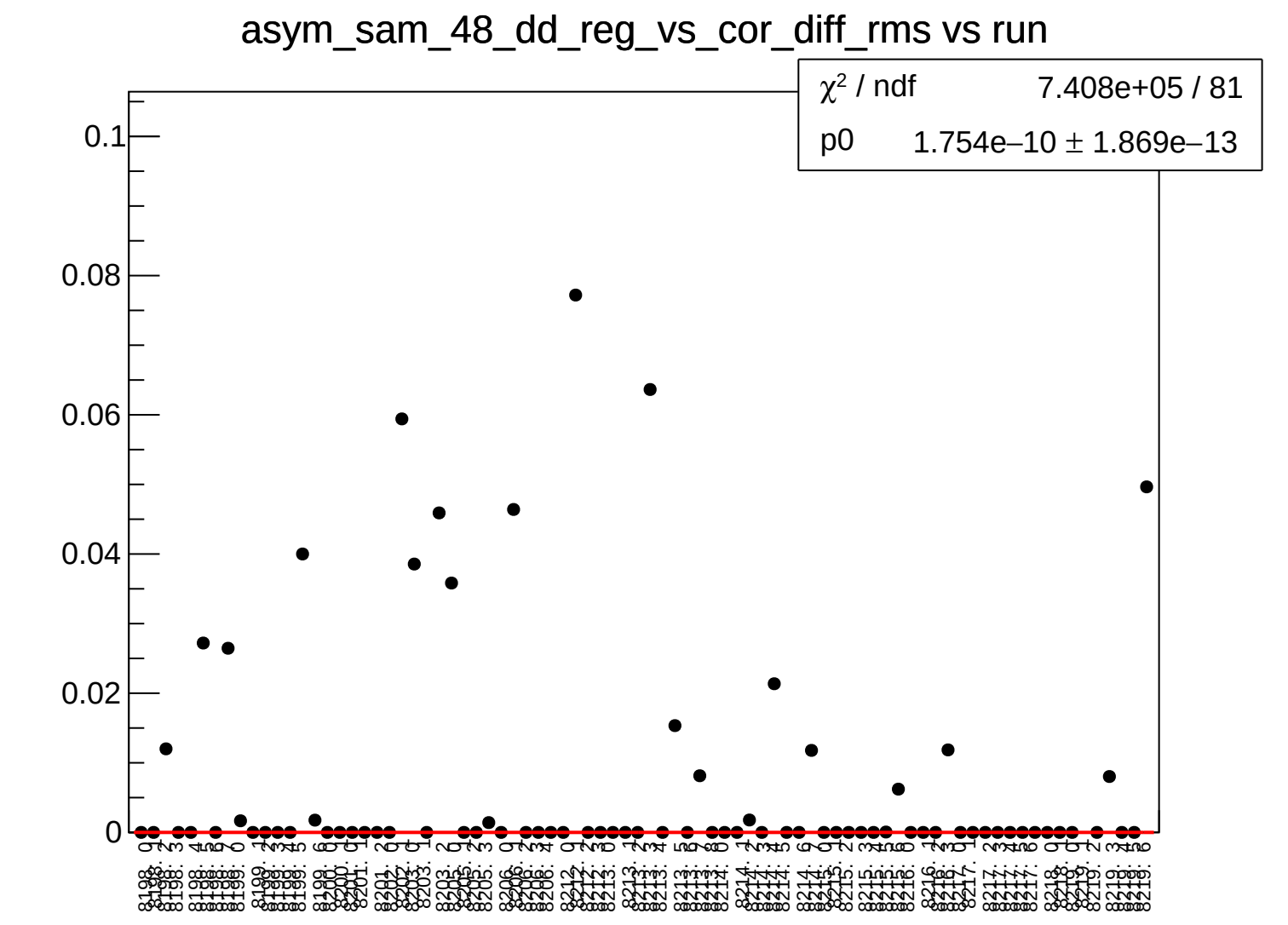

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 90.49 / 81
p0 3005 ± 2259
pull
Entries 82
Mean −526.1
Std Dev 0

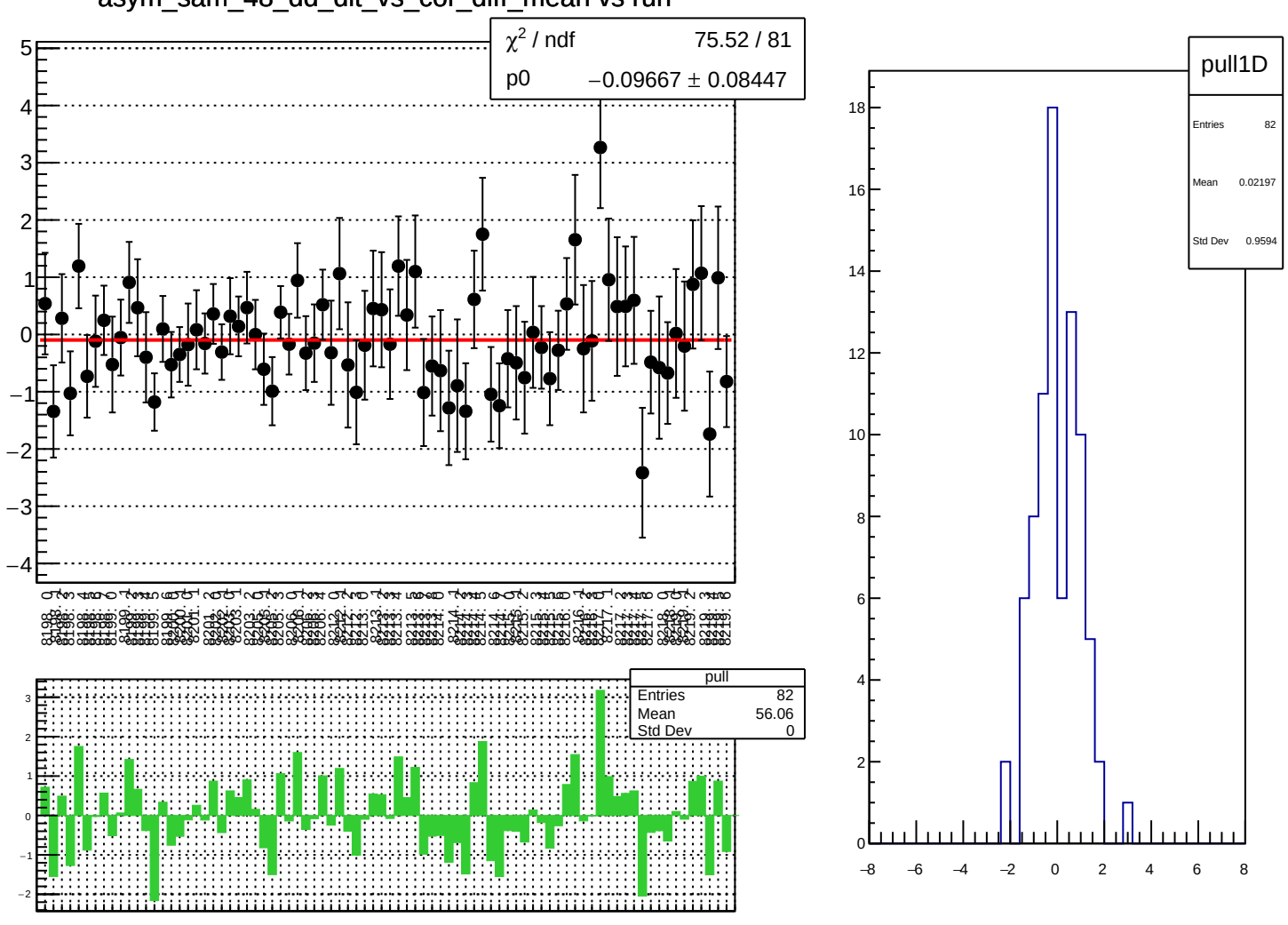

pull1D
Entries 82
Mean −0.009612
Std Dev 1.05

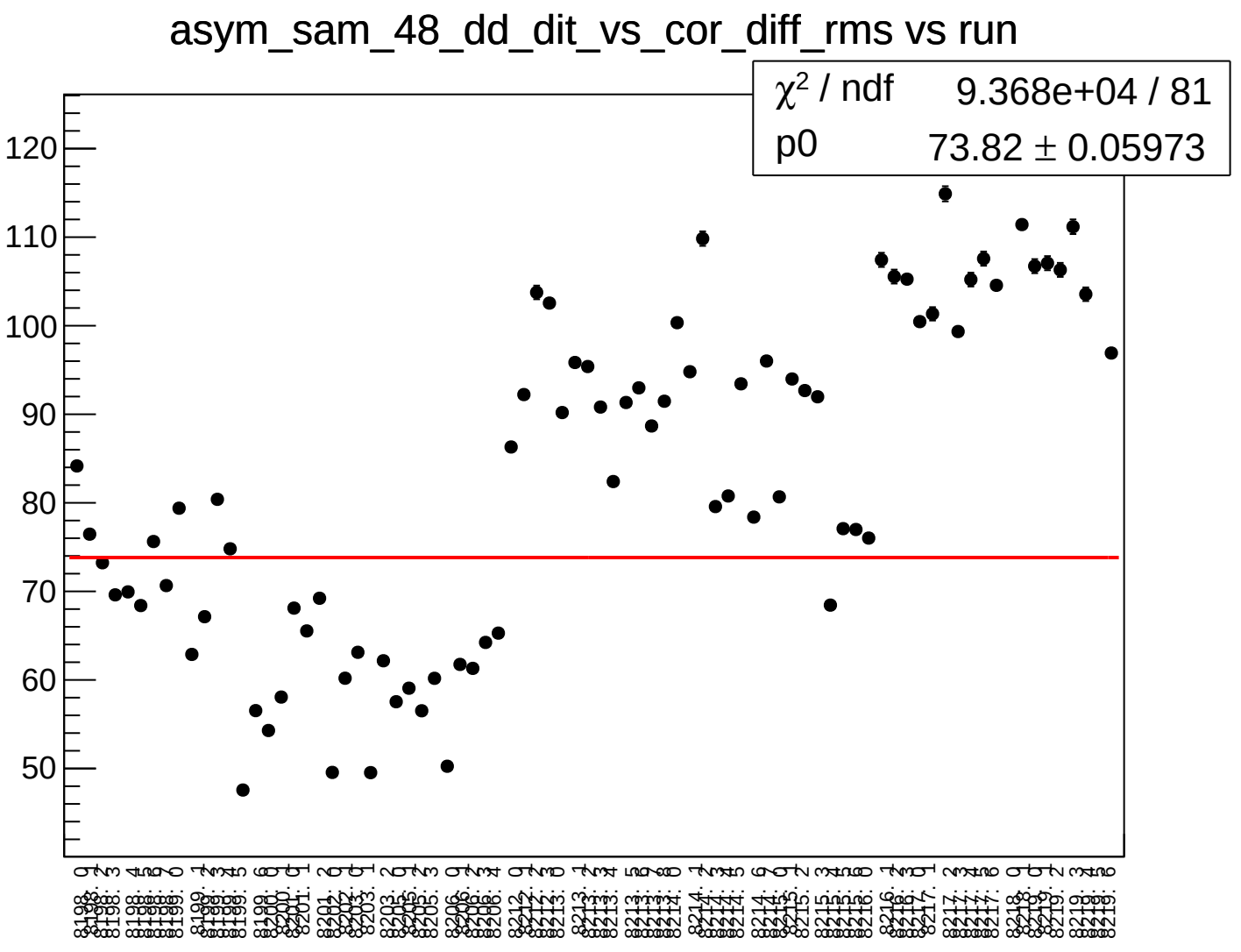

asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 1891 / 81
p0 2033 ± 1.598
2200
2150
2100
2050
2000
1950
1900
1850

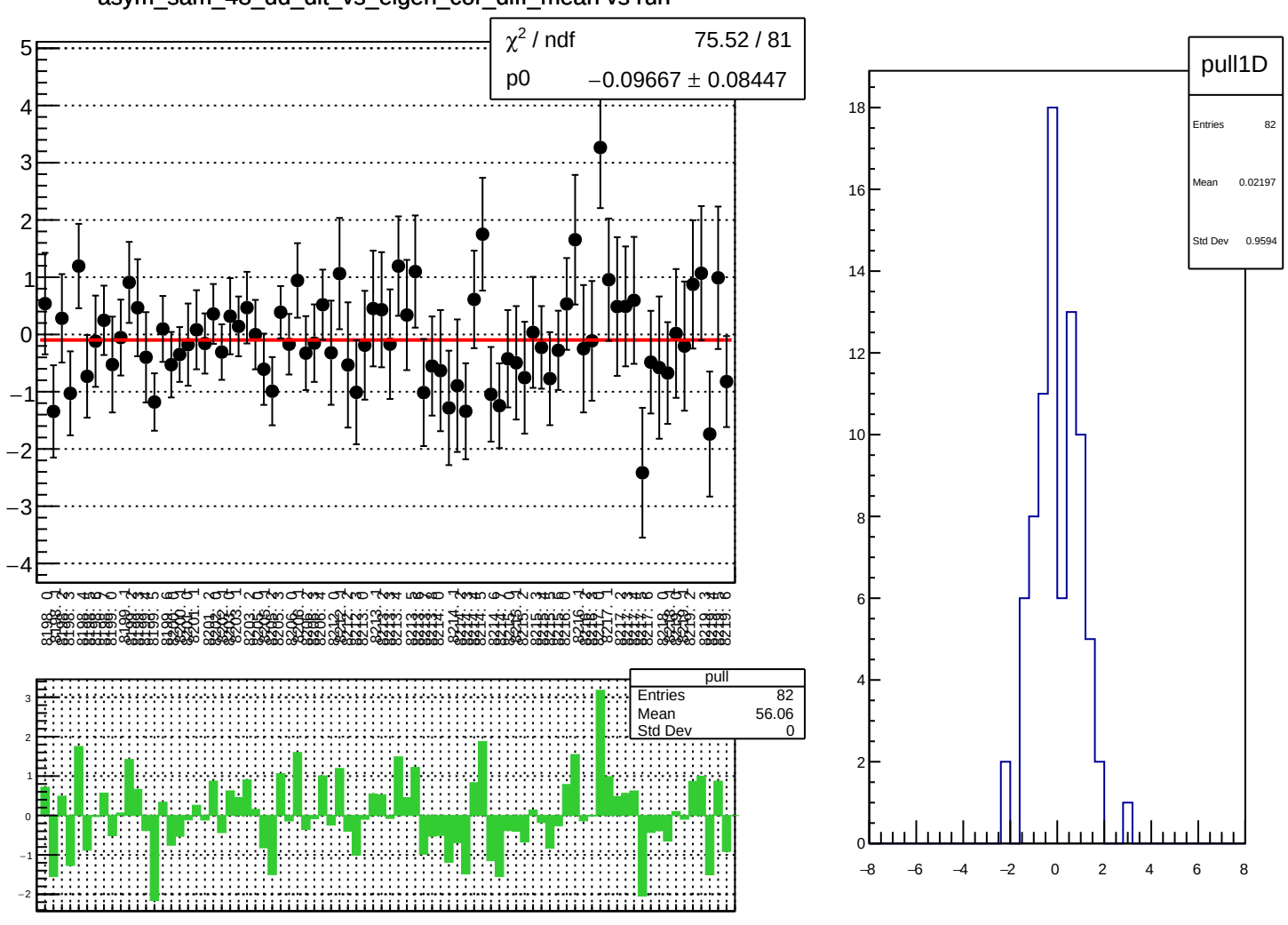

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.44 / 81
p0 −6.362e−14 ± 2.643e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 82
Mean 81.61
Std Dev 0

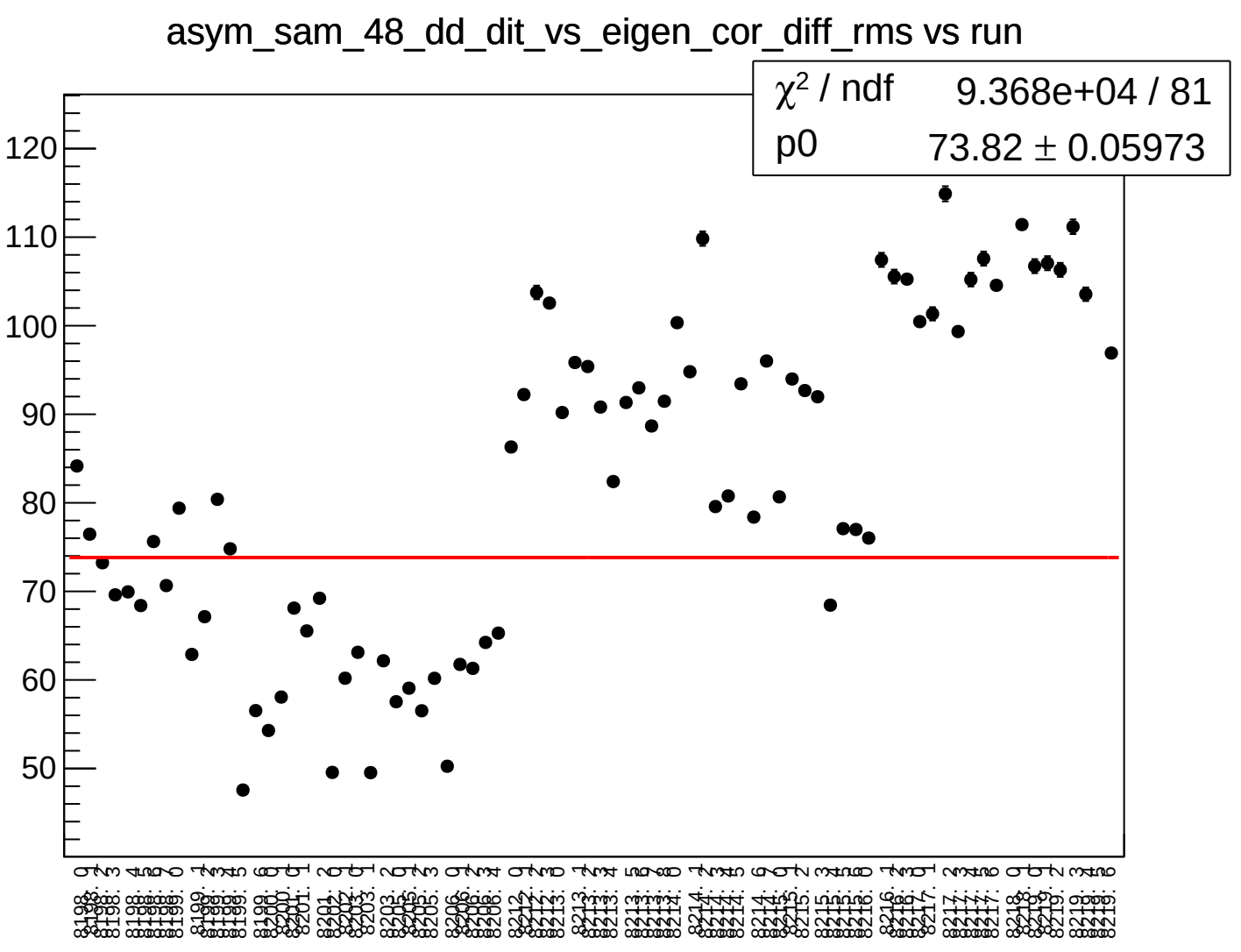

pull1D
Entries 82
Mean 0.03327
Std Dev 0.9712
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

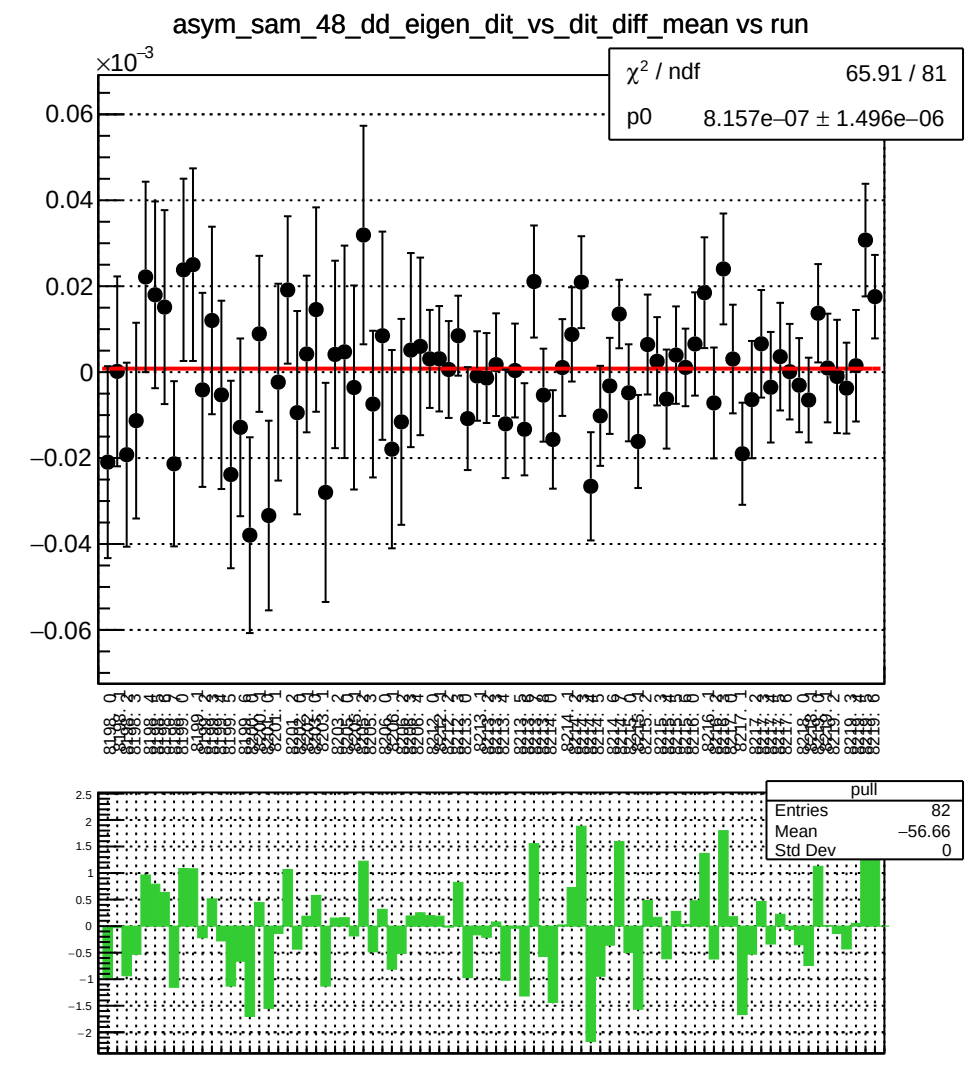

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.408e+05 / 81
p0 1.754e−10 ± 1.869e−13
0.1
0.08
0.06
0.04
0.02
0

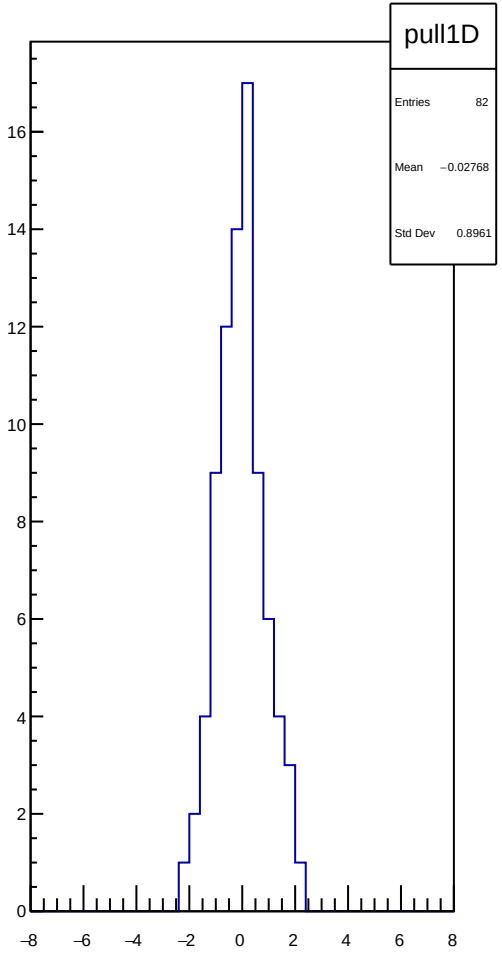

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.52 / 81
p0 −0.09667 ± 0.08447
pull
Entries 82
Mean 56.06
Std Dev 0
pull1D
Entries 82
Mean 0.02197
Std Dev 0.9594

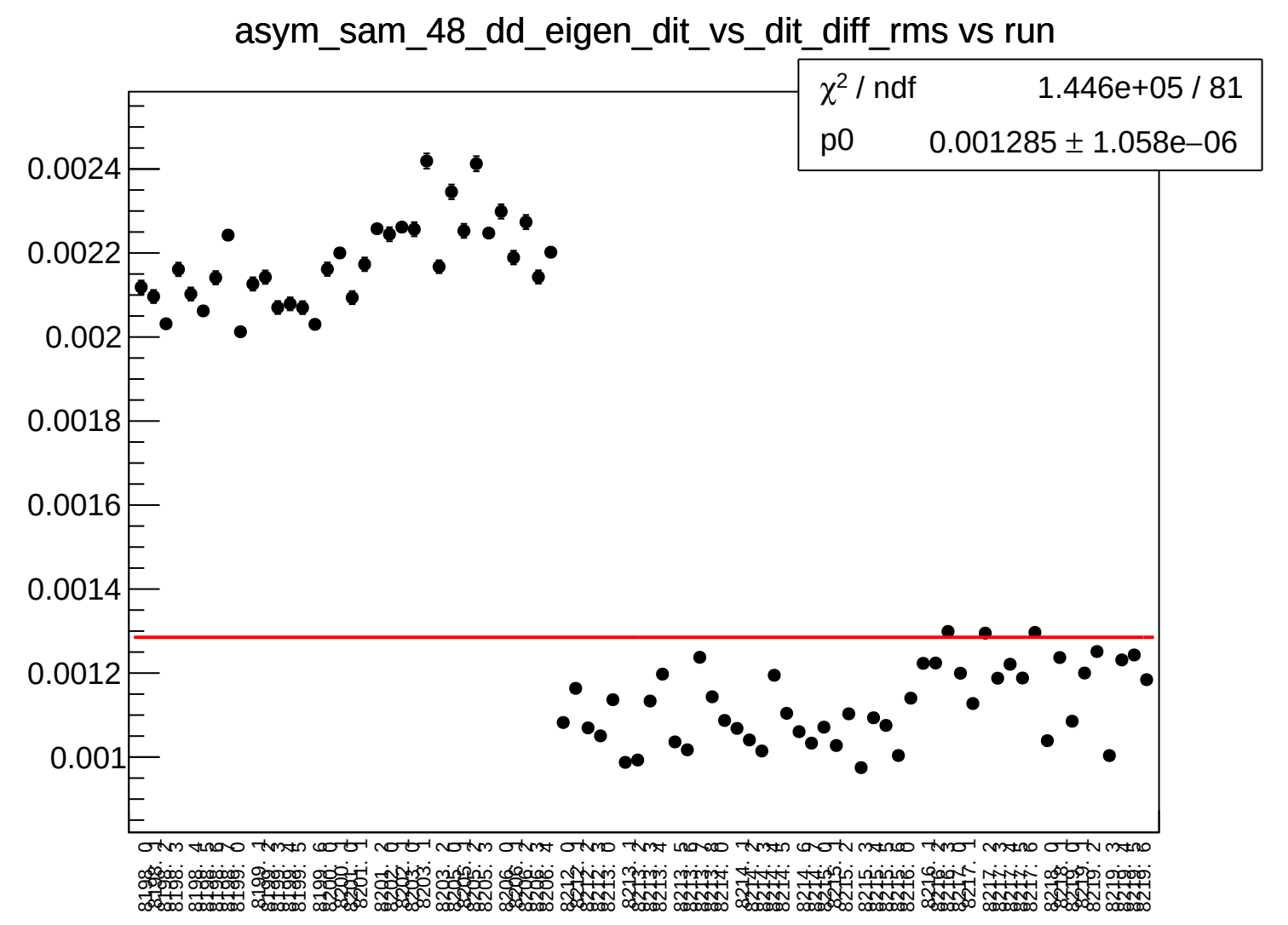

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.368e+04 / 81
p0 73.82 ± 0.05973
120
110
100
90
80
70
60
50

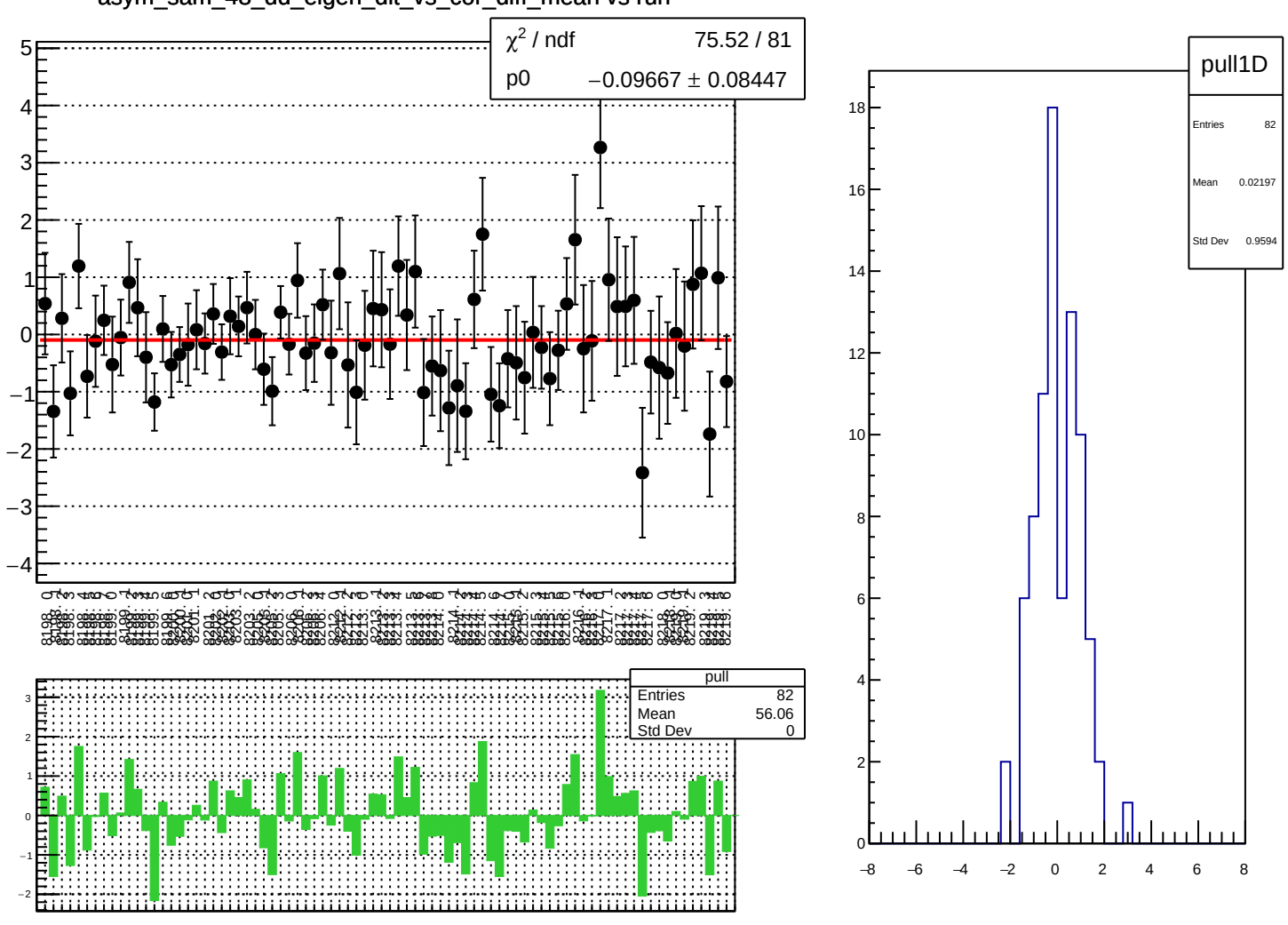

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.52 / 81
p0 −0.09667 ± 0.08447
pull
Entries 82
Mean 56.06
Std Dev 0
pull1D
Entries 82
Mean 0.02197
Std Dev 0.9594

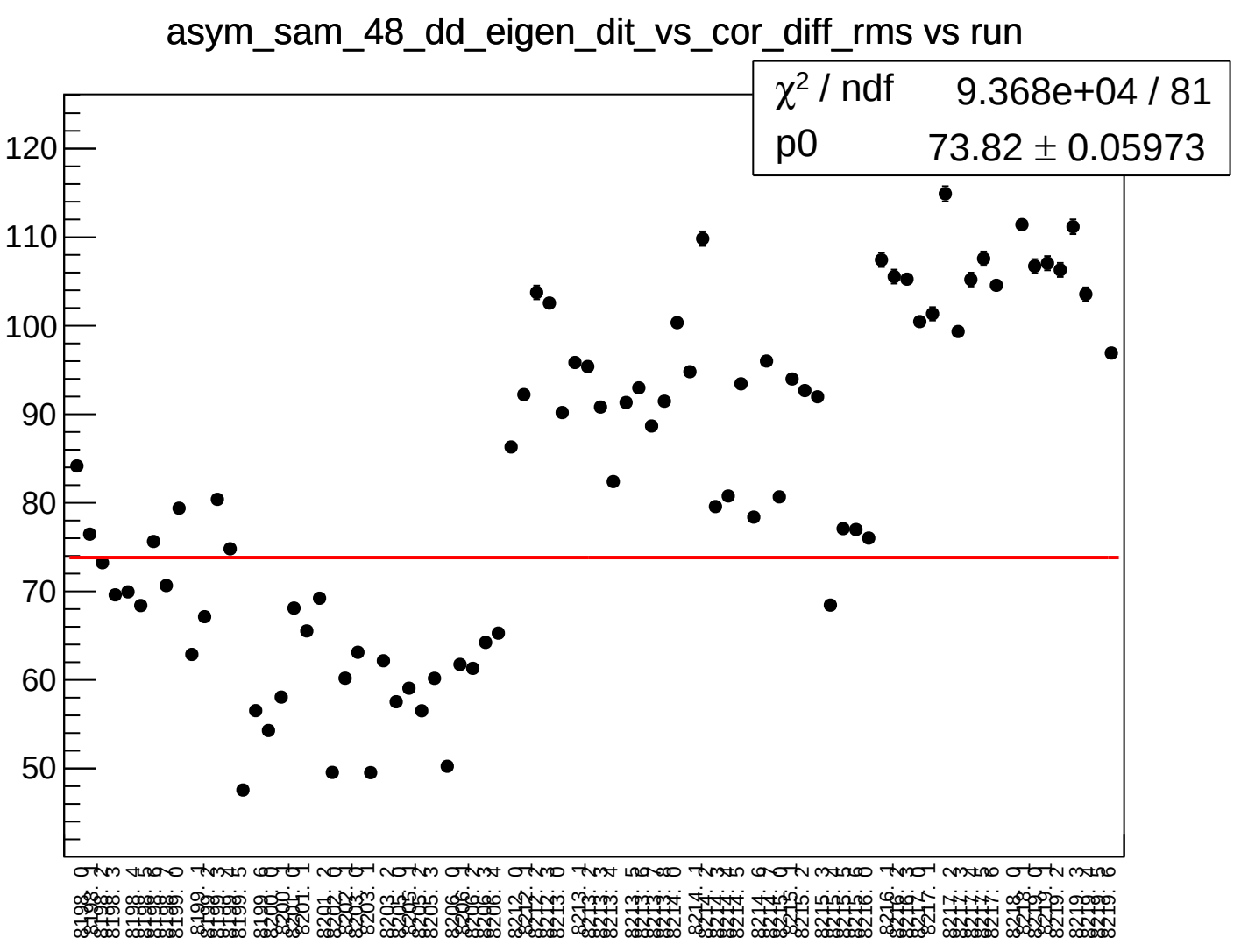

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.368e+04 / 81
p0 73.82 ± 0.05973
120
110
100
90
80
70
60
50

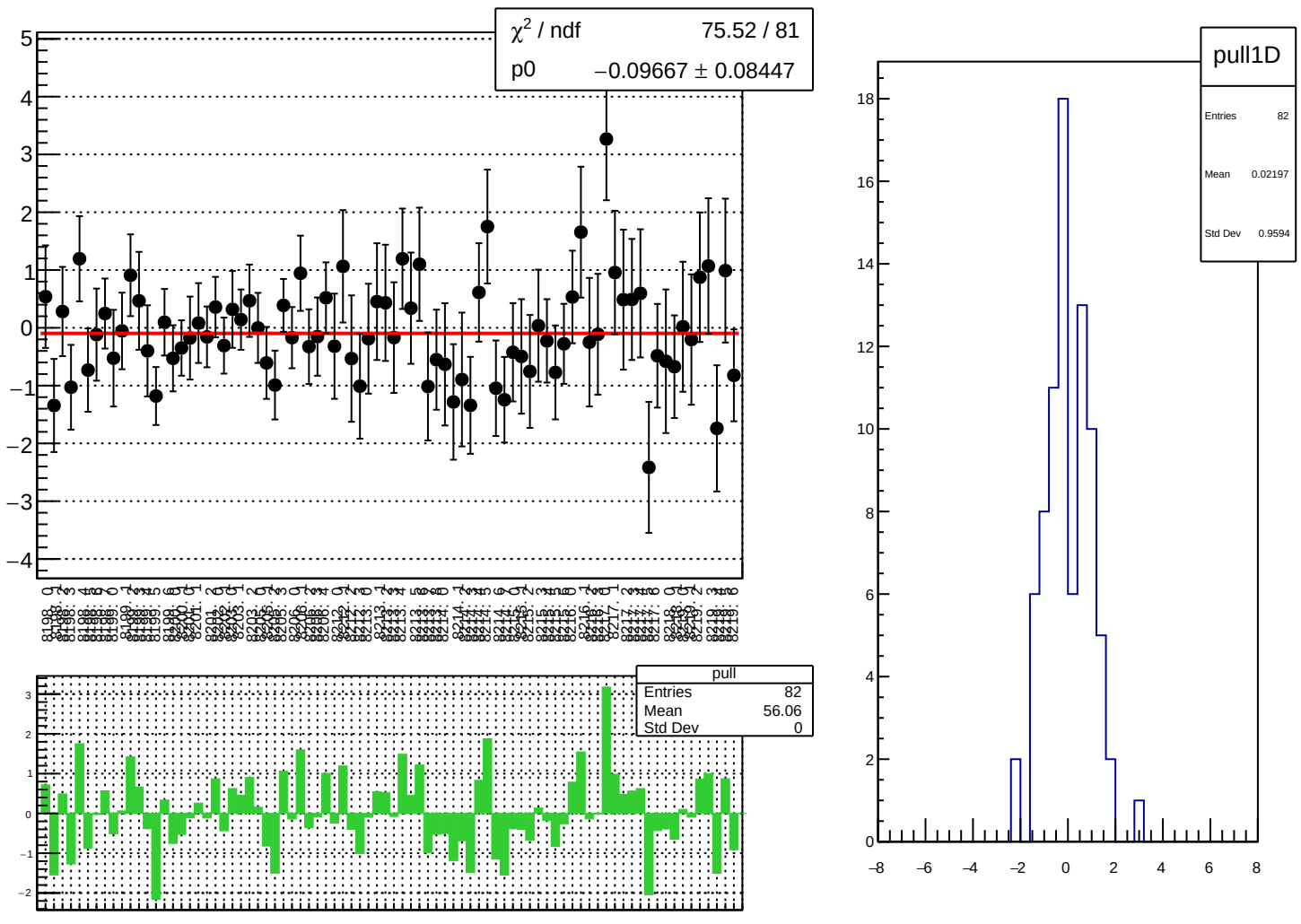

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.91 / 81
p0 8.157e−07 ± 1.496e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 82
Mean −56.66
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

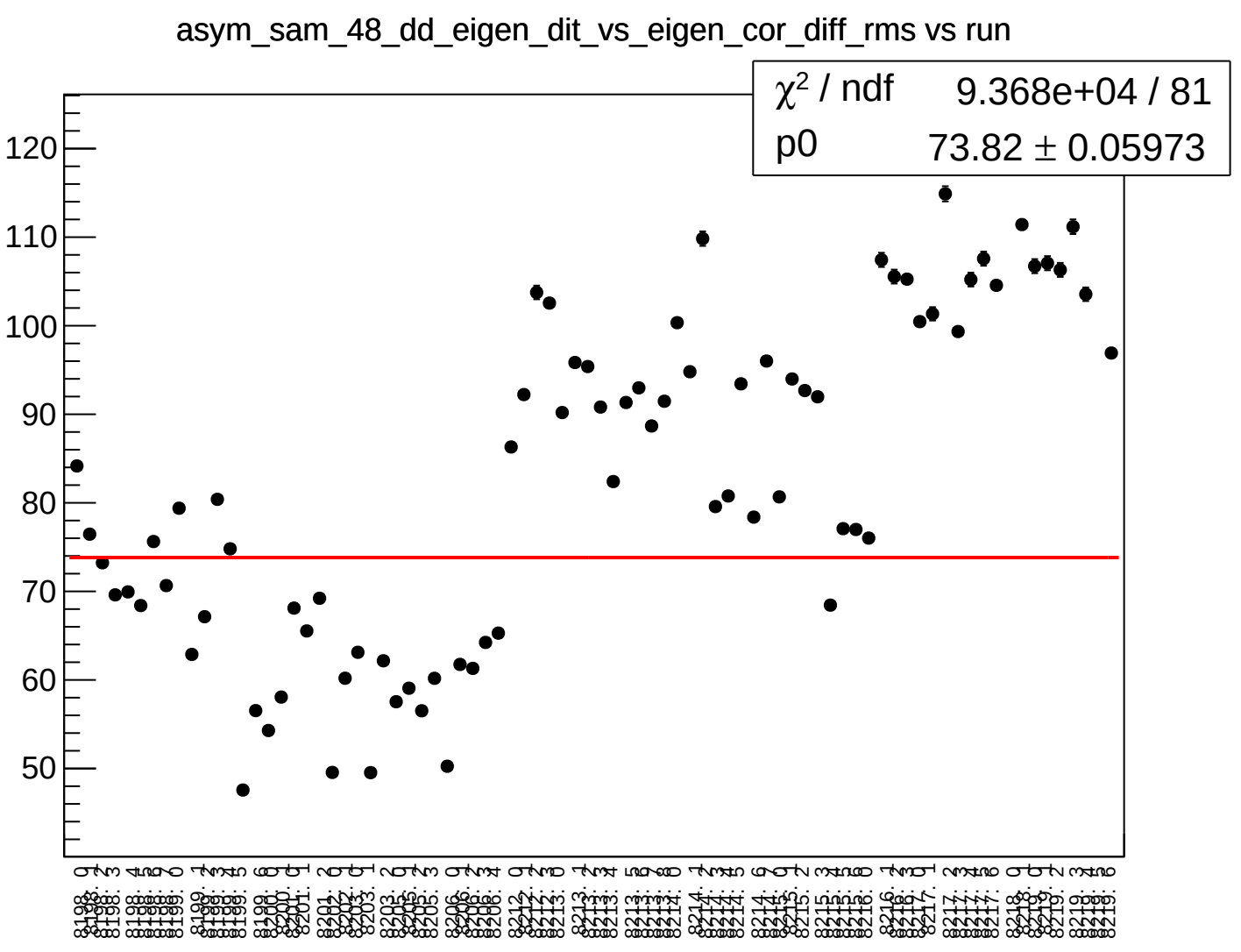

pull1D
Entries 82
Mean −0.02768
Std Dev 0.8961
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

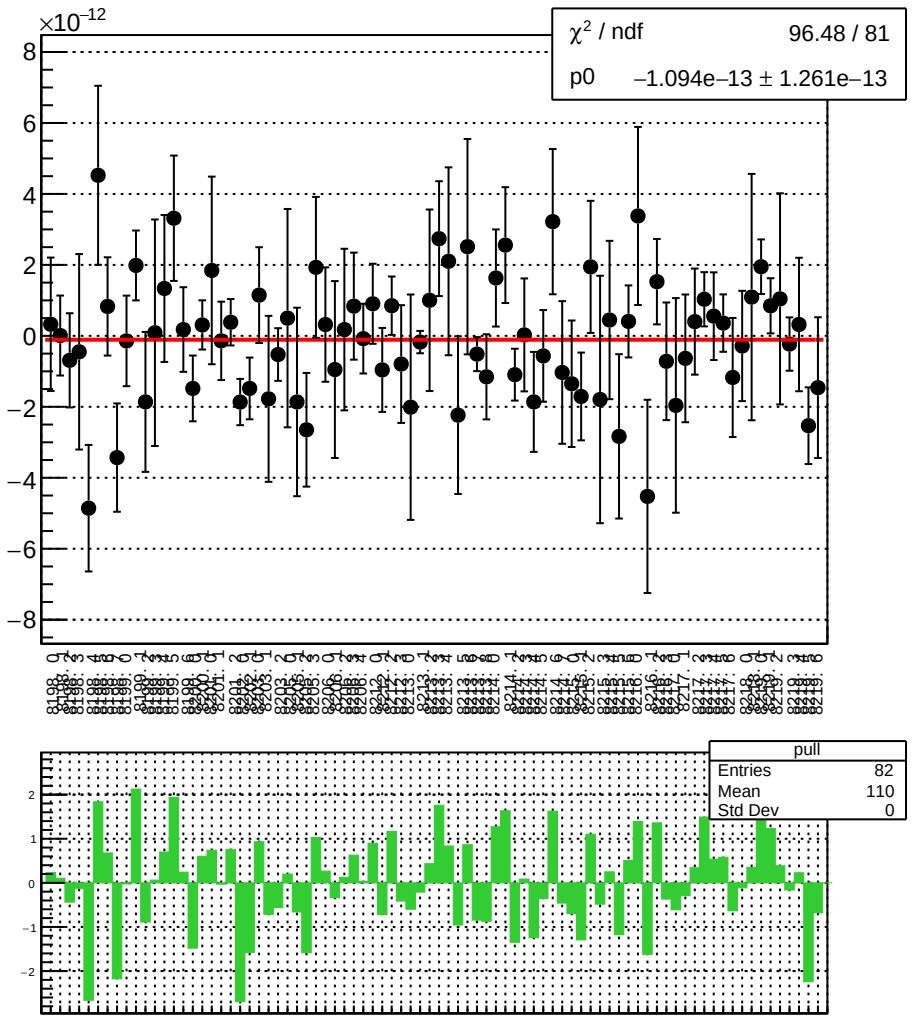

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.446e+05 / 81
p0 0.001285 ± 1.058e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

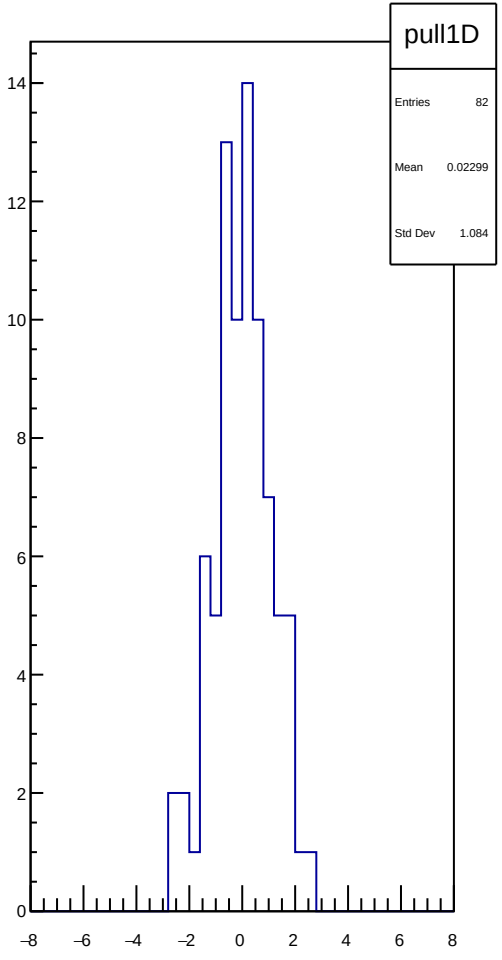

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.52 / 81
p0 −0.09667 ± 0.08447
pull
Entries 82
Mean 56.06
Std Dev 0
pull1D
Entries 82
Mean 0.02197
Std Dev 0.9594

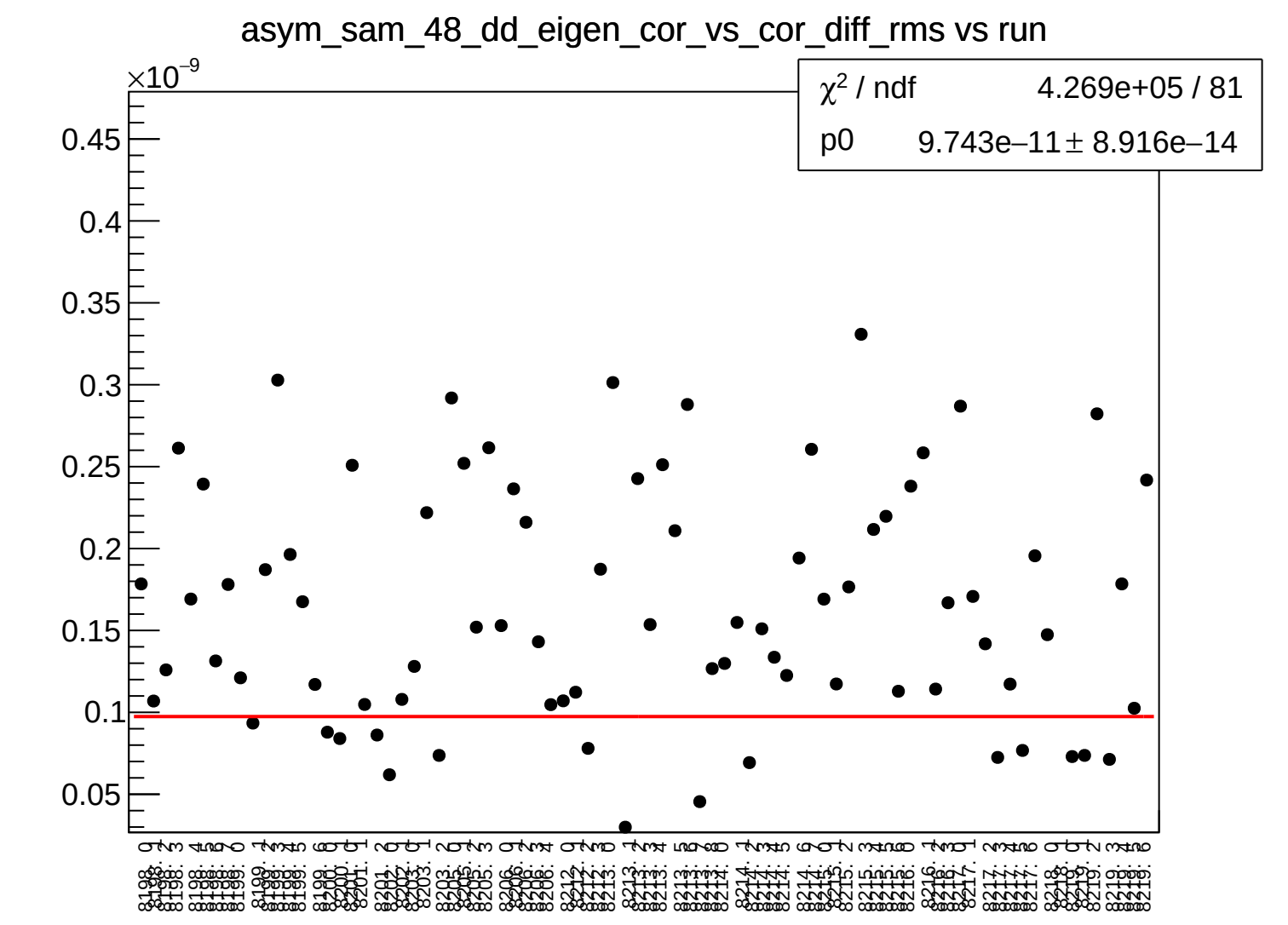

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 9.368e+04 / 81
p0 73.82 ± 0.05973
120
110
100
90
80
70
60
50

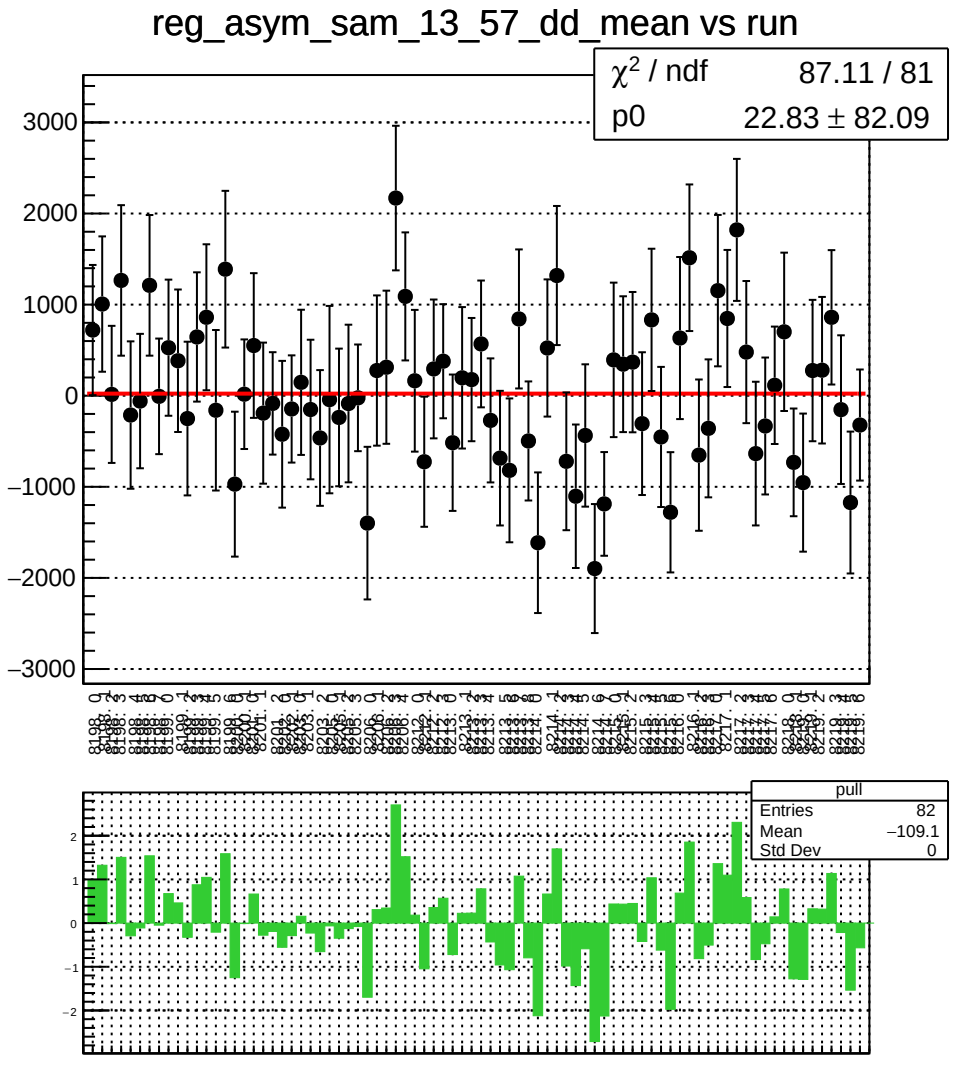

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.52 / 81
p0 −0.09667 ± 0.08447
pull
Entries 82
Mean 56.06
Std Dev 0
pull1D
Entries 82
Mean 0.02197
Std Dev 0.9594

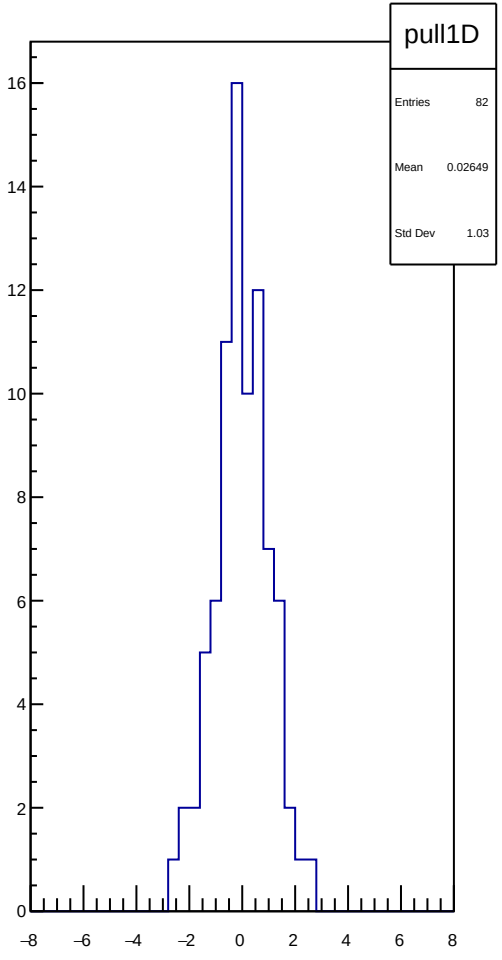

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.368e+04 / 81
p0 73.82 ± 0.05973
120
110
100
90
80
70
60
50

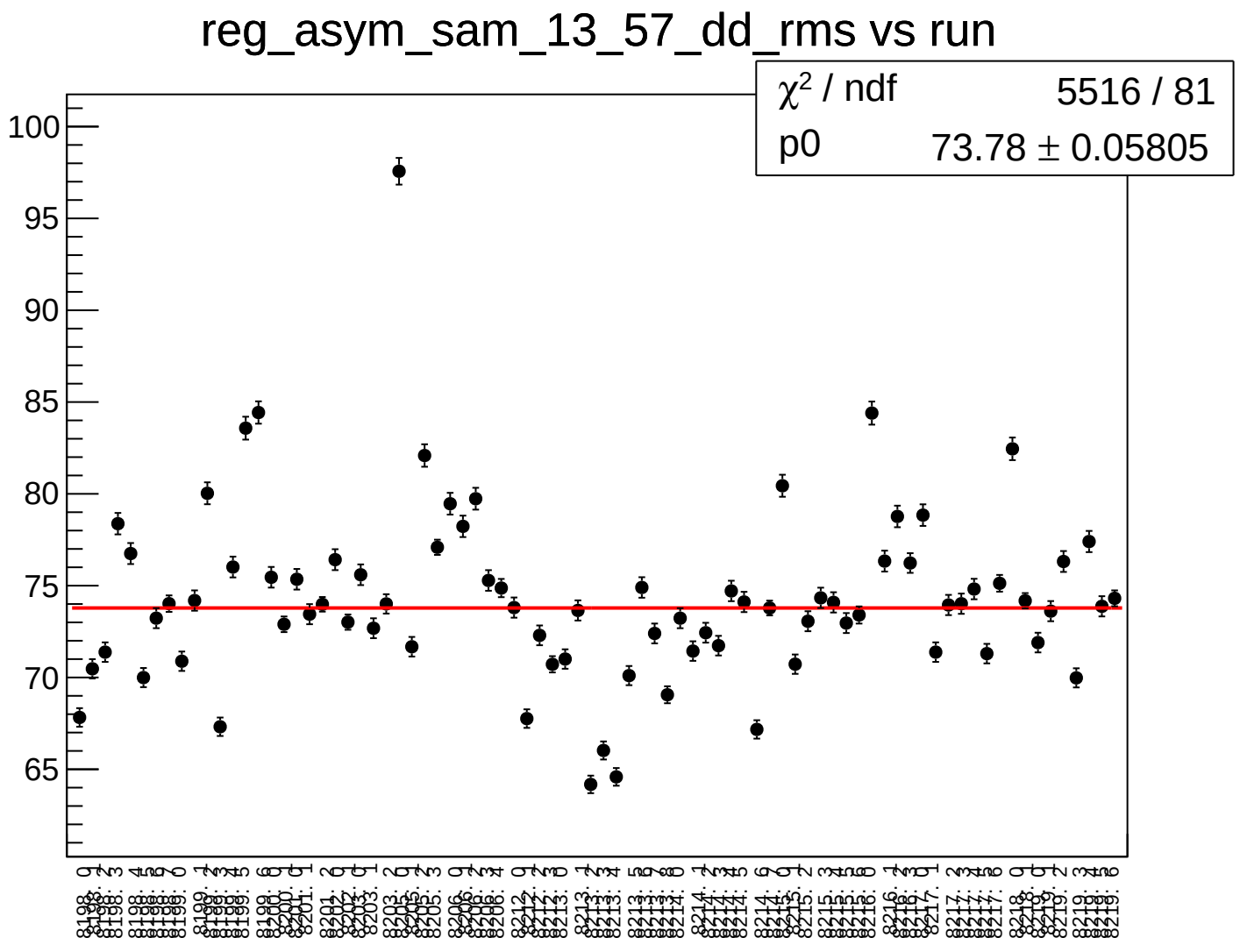

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.48 / 81
p0 −1.094e−13 ± 1.261e−13
pull
Entries 82
Mean 110
Std Dev 0

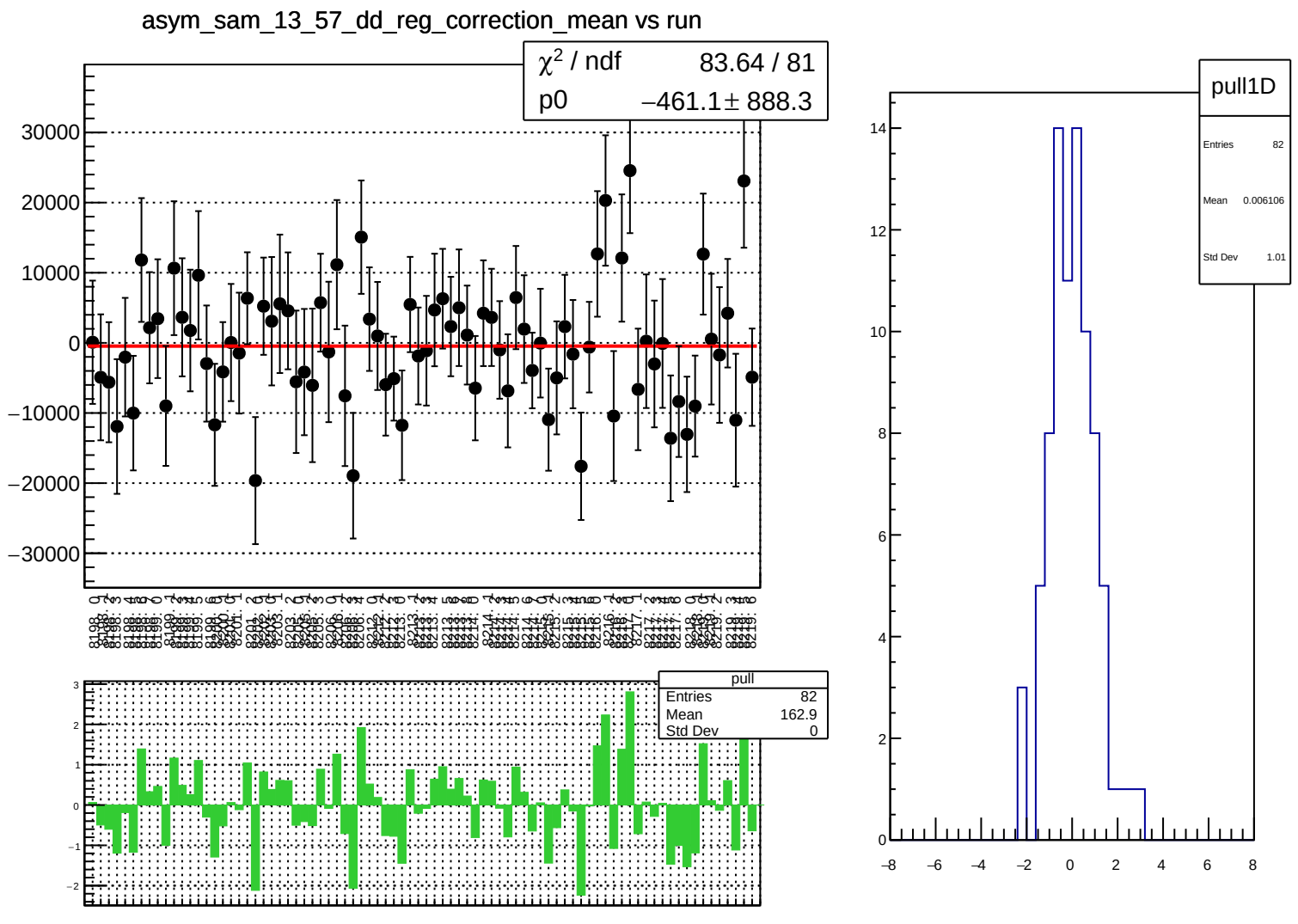

pull1D
Entries 82
Mean 0.02299
Std Dev 1.084

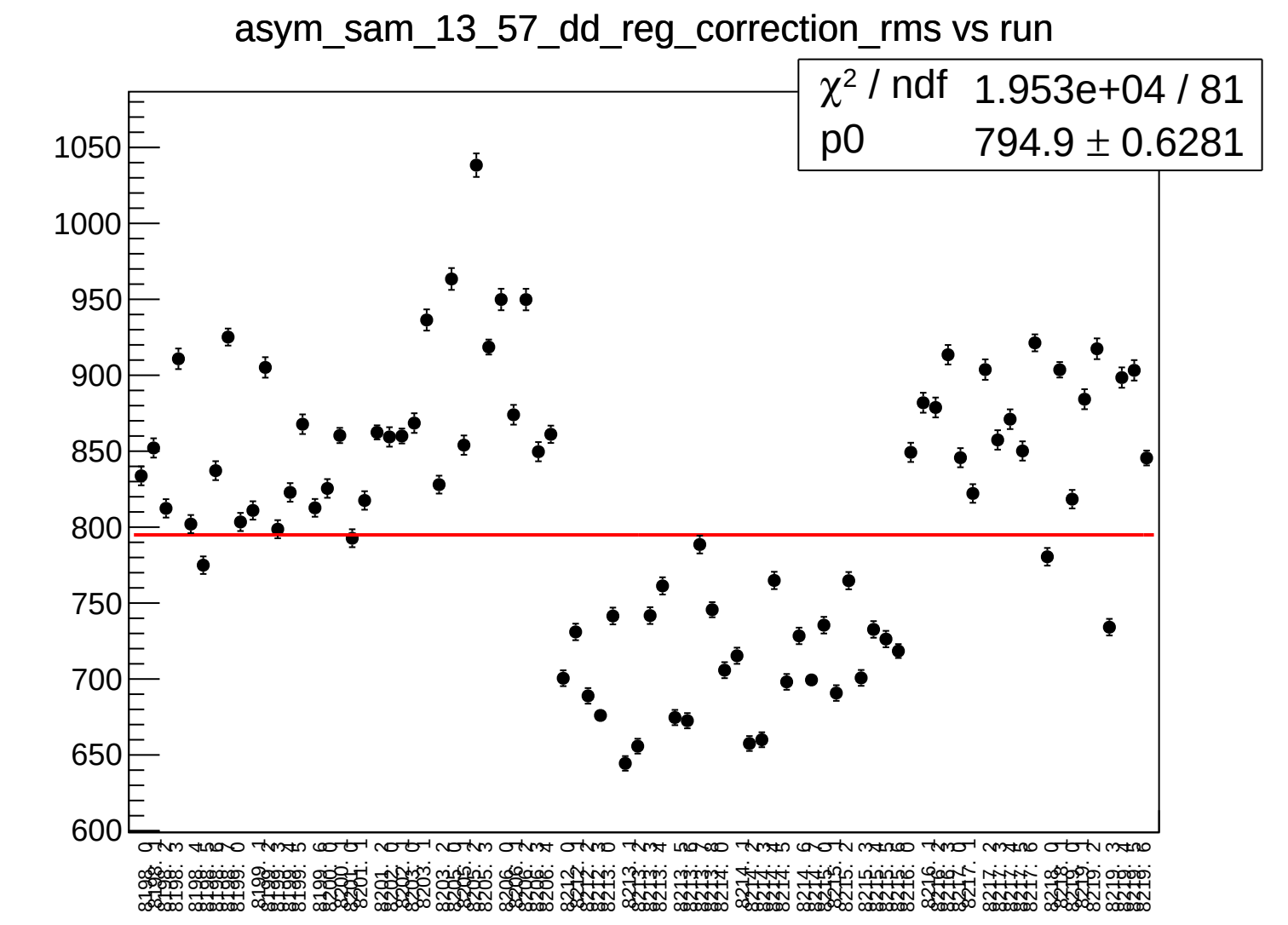

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.269e+05 / 81
p0 9.743e−11 ± 8.916e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

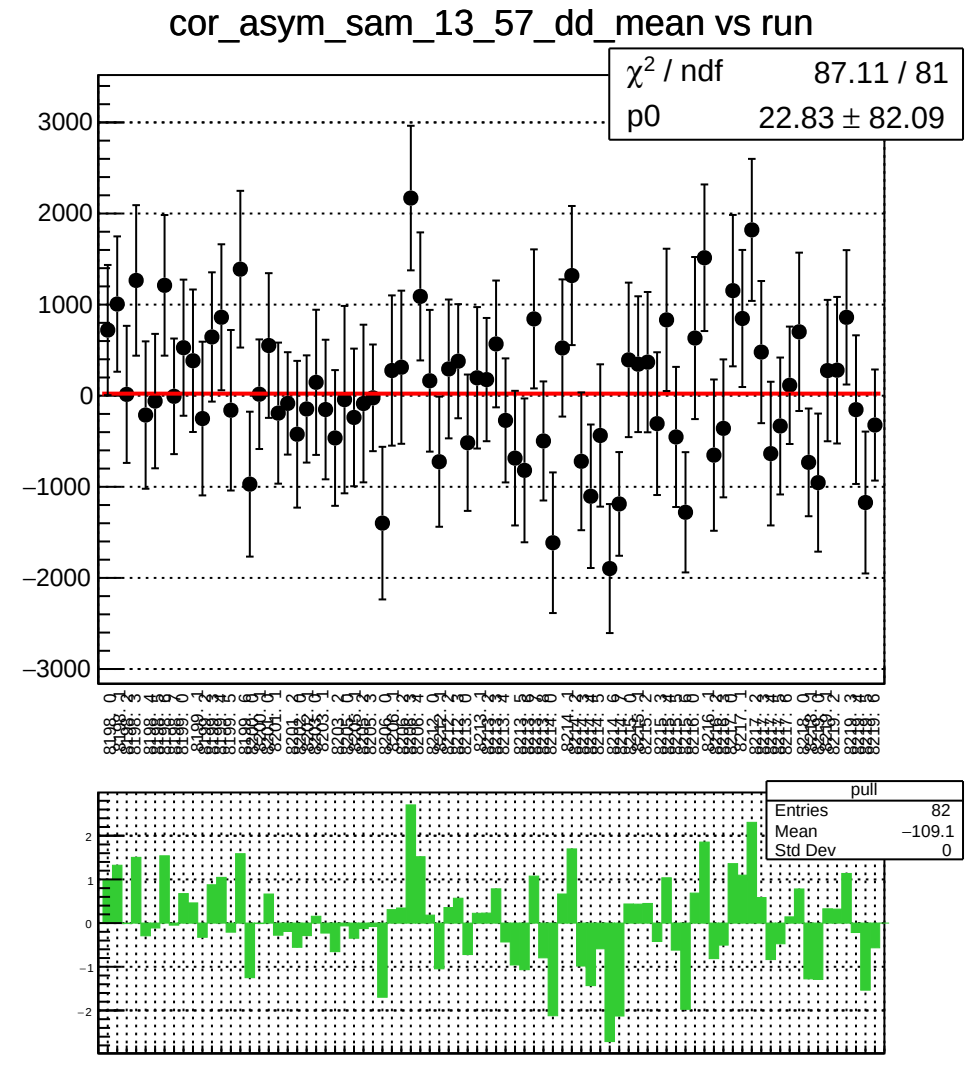

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.11 / 81
p0 22.83 ± 82.09
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean −109.1
Std Dev 0
2
1
0
−1
−2

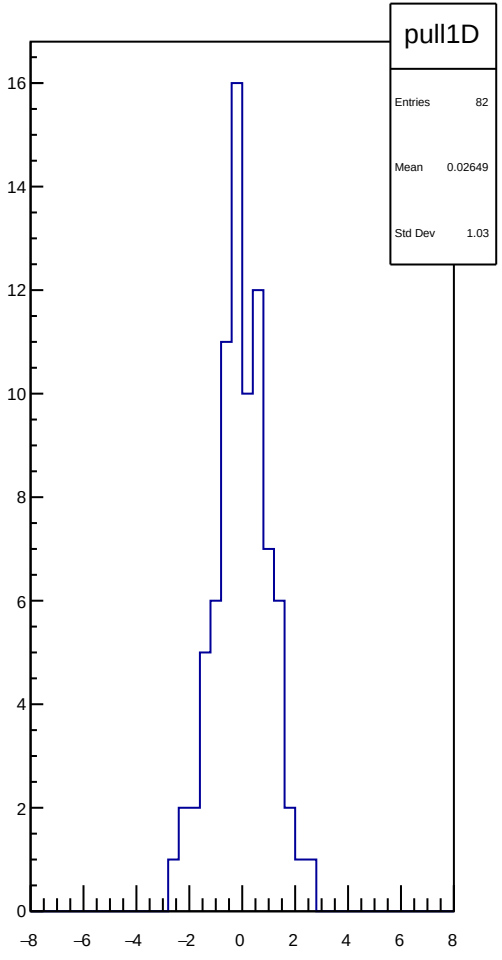

pull1D
Entries 82
Mean 0.02649
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

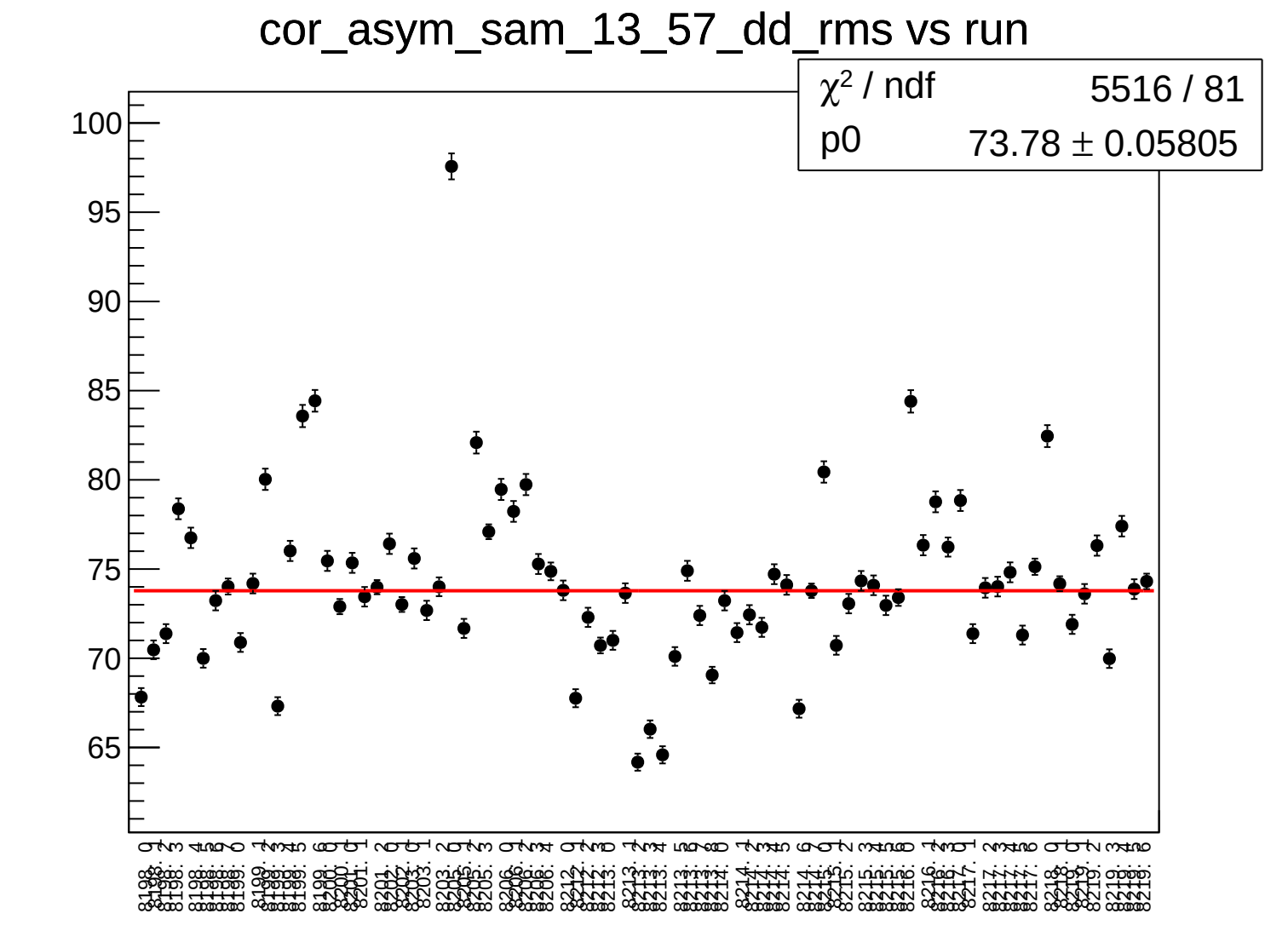

reg_asym_sam_13_57_dd_rms vs run
$\chi^2$ / ndf 5516 / 81
p0 73.78 ± 0.05805
100
95
90
85
80
75
70
65

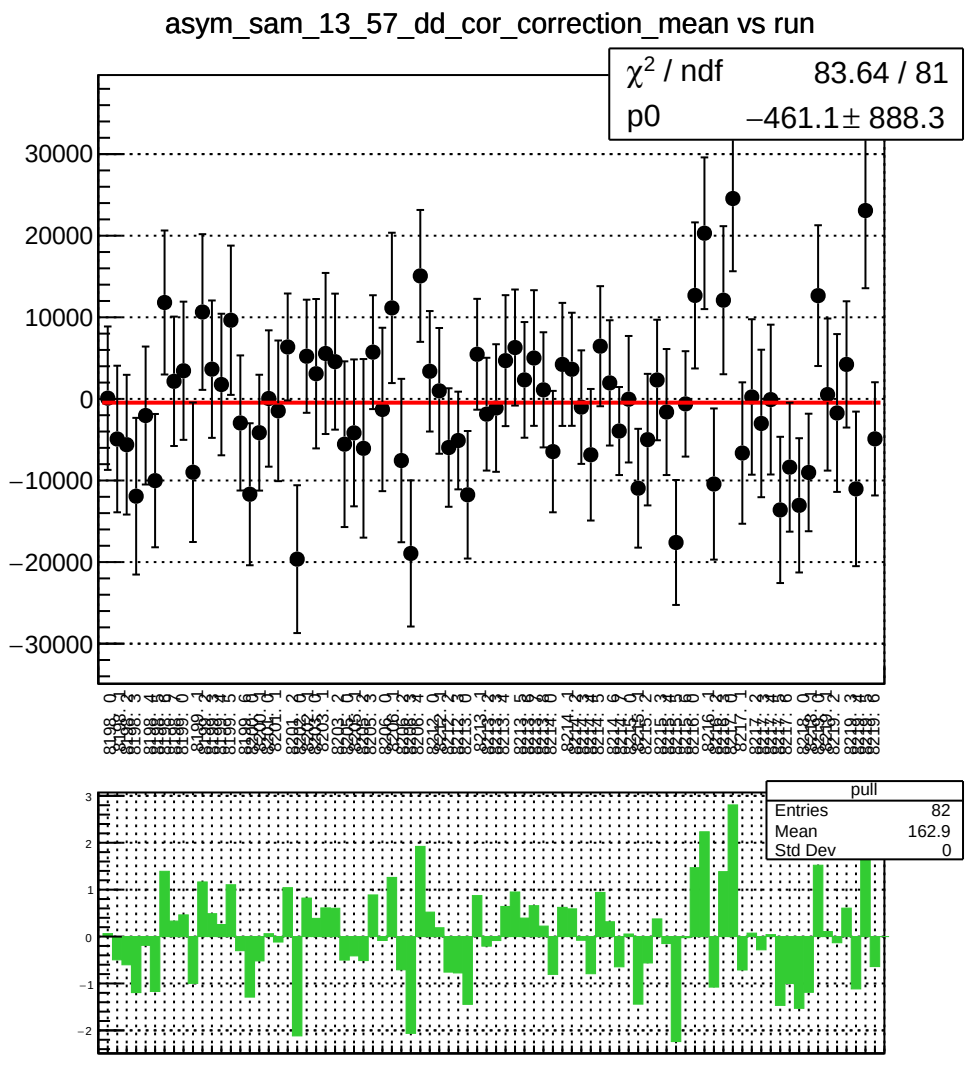

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 83.64 / 81
p0 −461.1± 888.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 162.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.006106
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

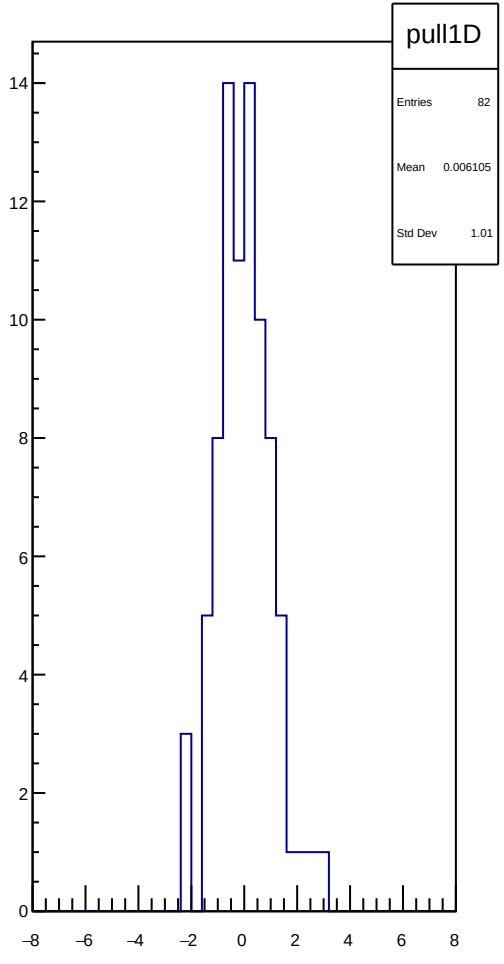

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 1.953e+04 / 81
p0 794.9 ± 0.6281
1050
1000
950
900
850
800
750
700
650
600


cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.11 / 81
p0 22.83 ± 82.09
pull
Entries 82
Mean −109.1
Std Dev 0


pull1D
Entries 82
Mean 0.02649
Std Dev 1.03


cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 5516 / 81
p0 73.78 ± 0.05805
100
95
90
85
80
75
70
65


asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 83.64 / 81
p0 −461.1± 888.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 162.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 82
Mean 0.006105
Std Dev 1.01
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12
10
8
6
4
2
0
−8
−6
−4
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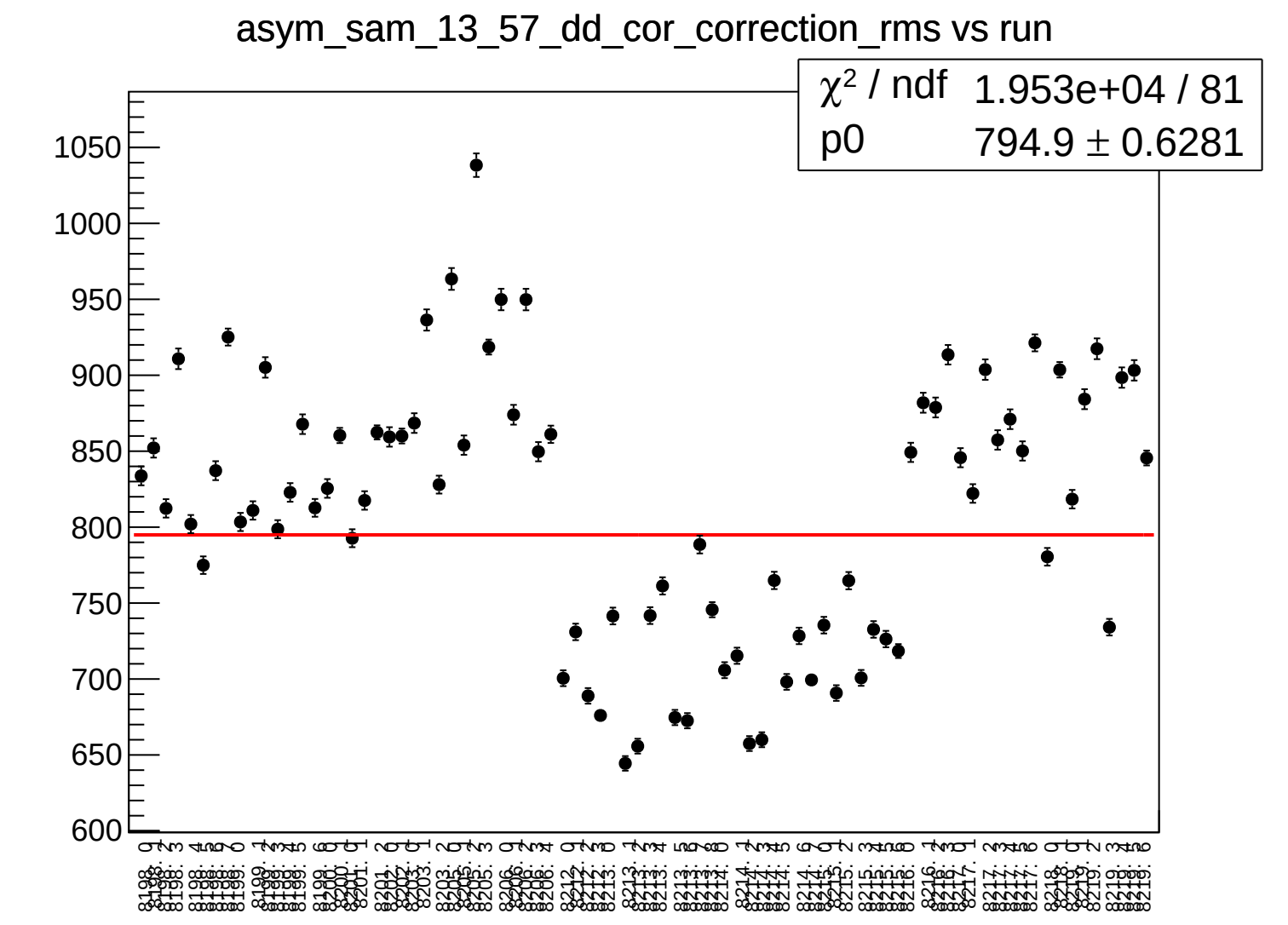
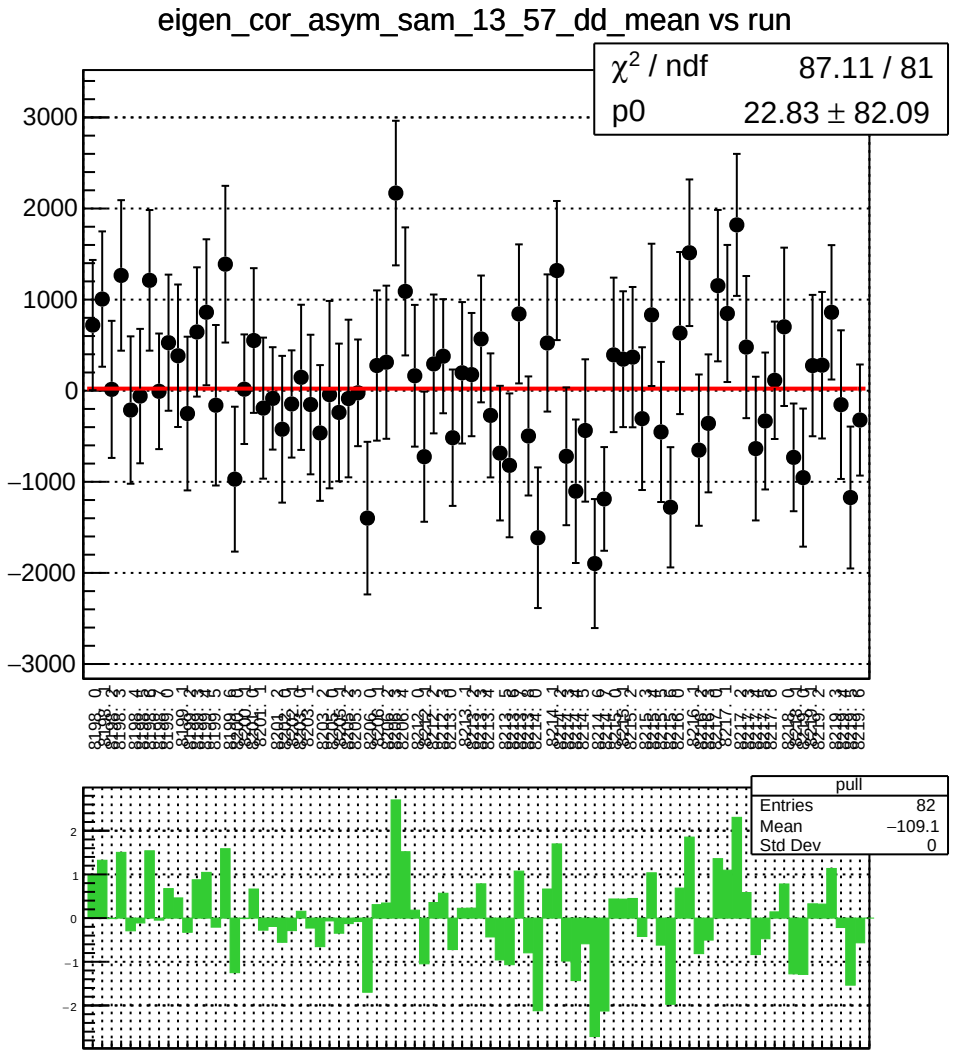
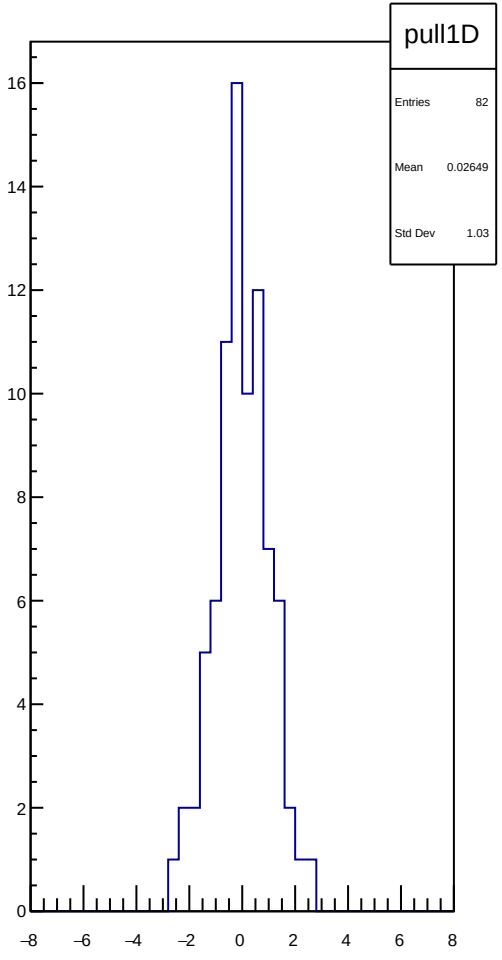
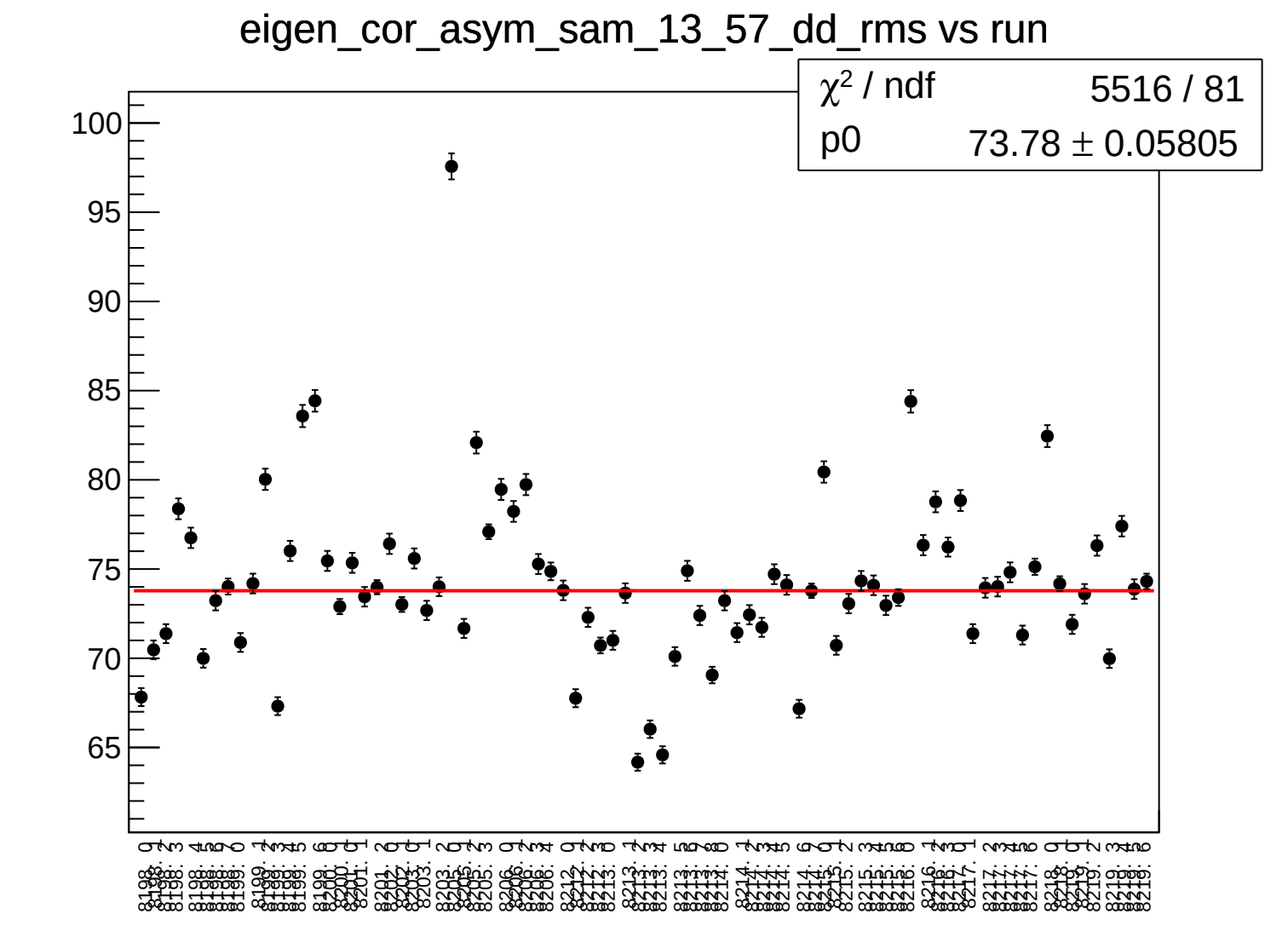
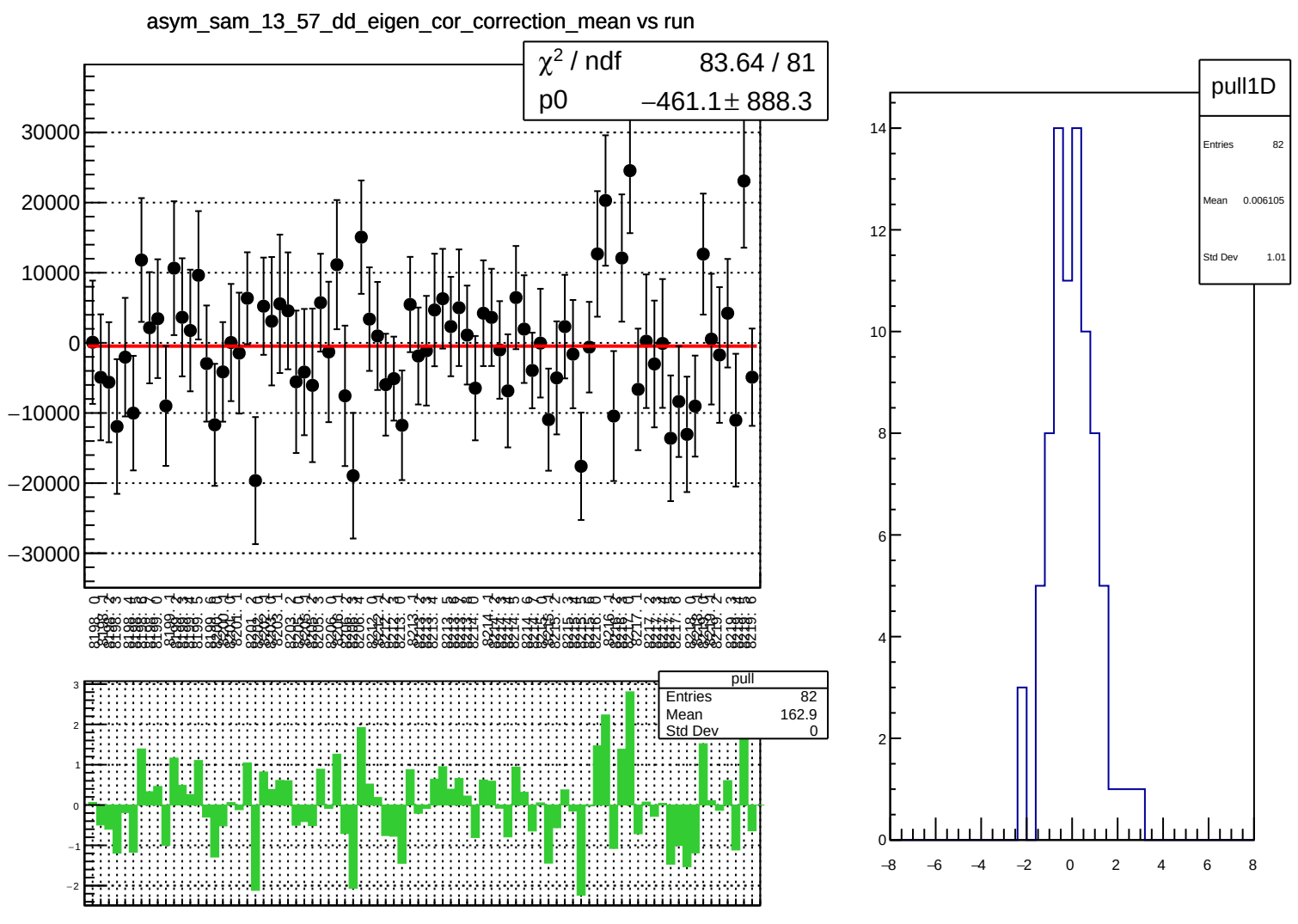
2
4
6
8

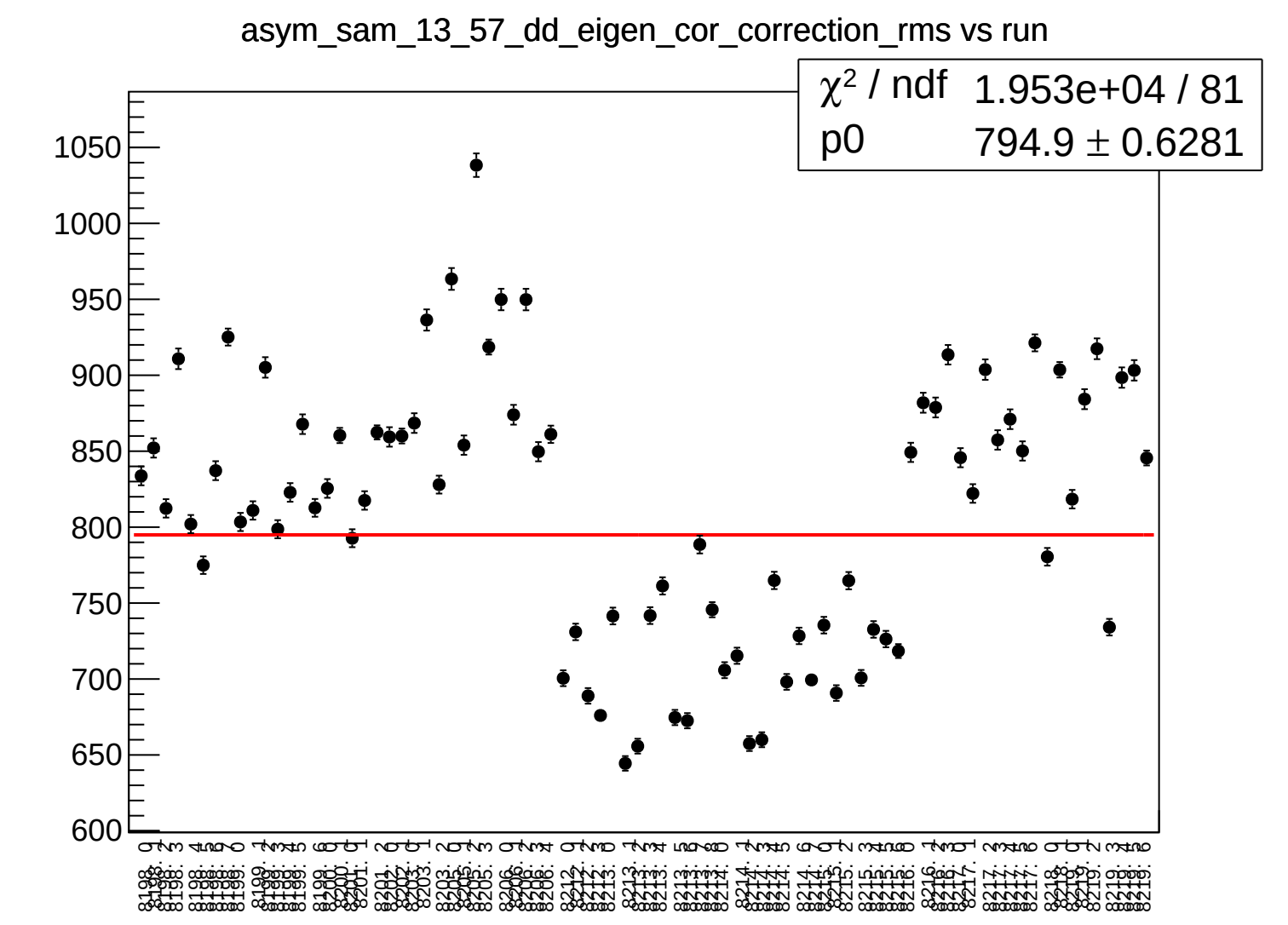

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1.953e+04 / 81
p0 794.9 ± 0.6281
1050
1000
950
900
850
800
750
700
650
600

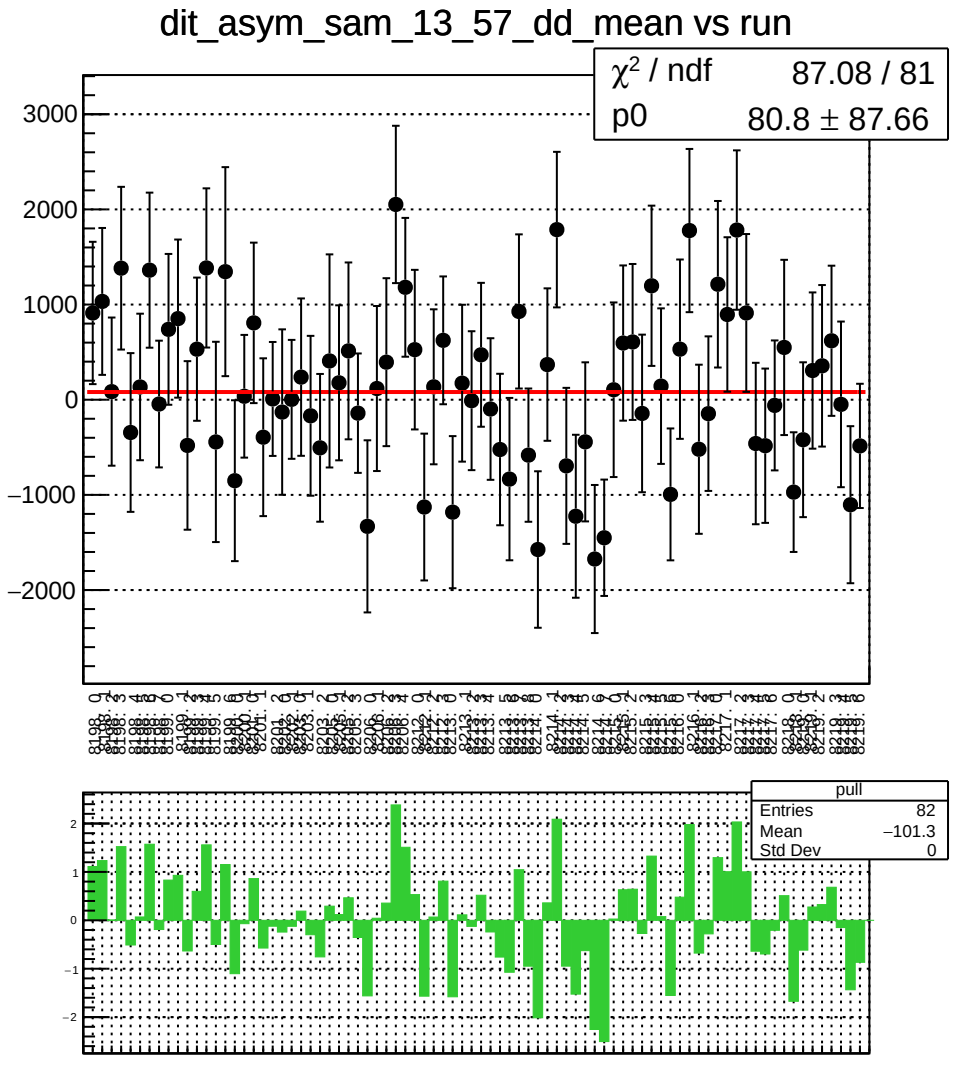

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.11 / 81
p0 22.83 ± 82.09
pull
Entries 82
Mean −109.1
Std Dev 0

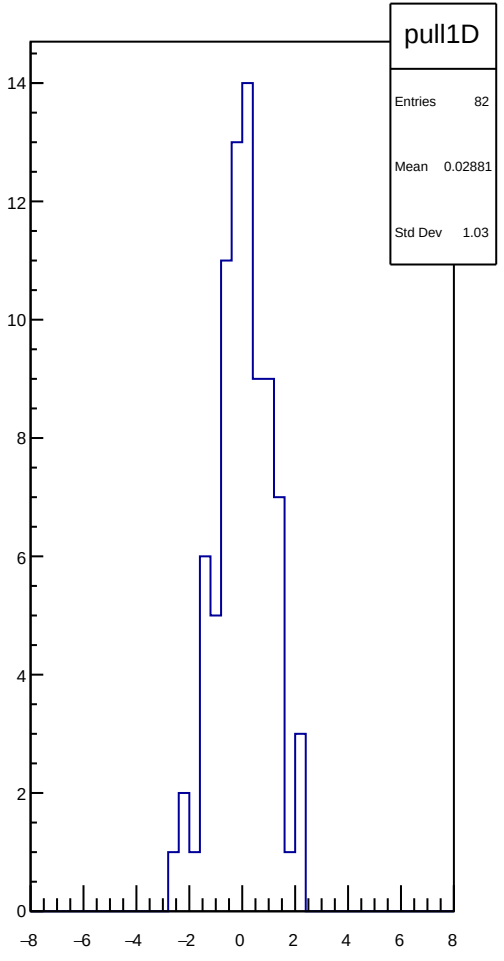

pull1D
Entries 82
Mean 0.02649
Std Dev 1.03


eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 5516 / 81
p0 73.78 ± 0.05805
100
95
90
85
80
75
70
65


asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.64 / 81
p0 −461.1± 888.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 162.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.006105
Std Dev 1.01
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 1.953e+04 / 81
p0 794.9 ± 0.6281
1050
1000
950
900
850
800
750
700
650
600


dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.08 / 81
p0 80.8 ± 87.66
3000
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −101.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 82
Mean 0.02881
Std Dev 1.03
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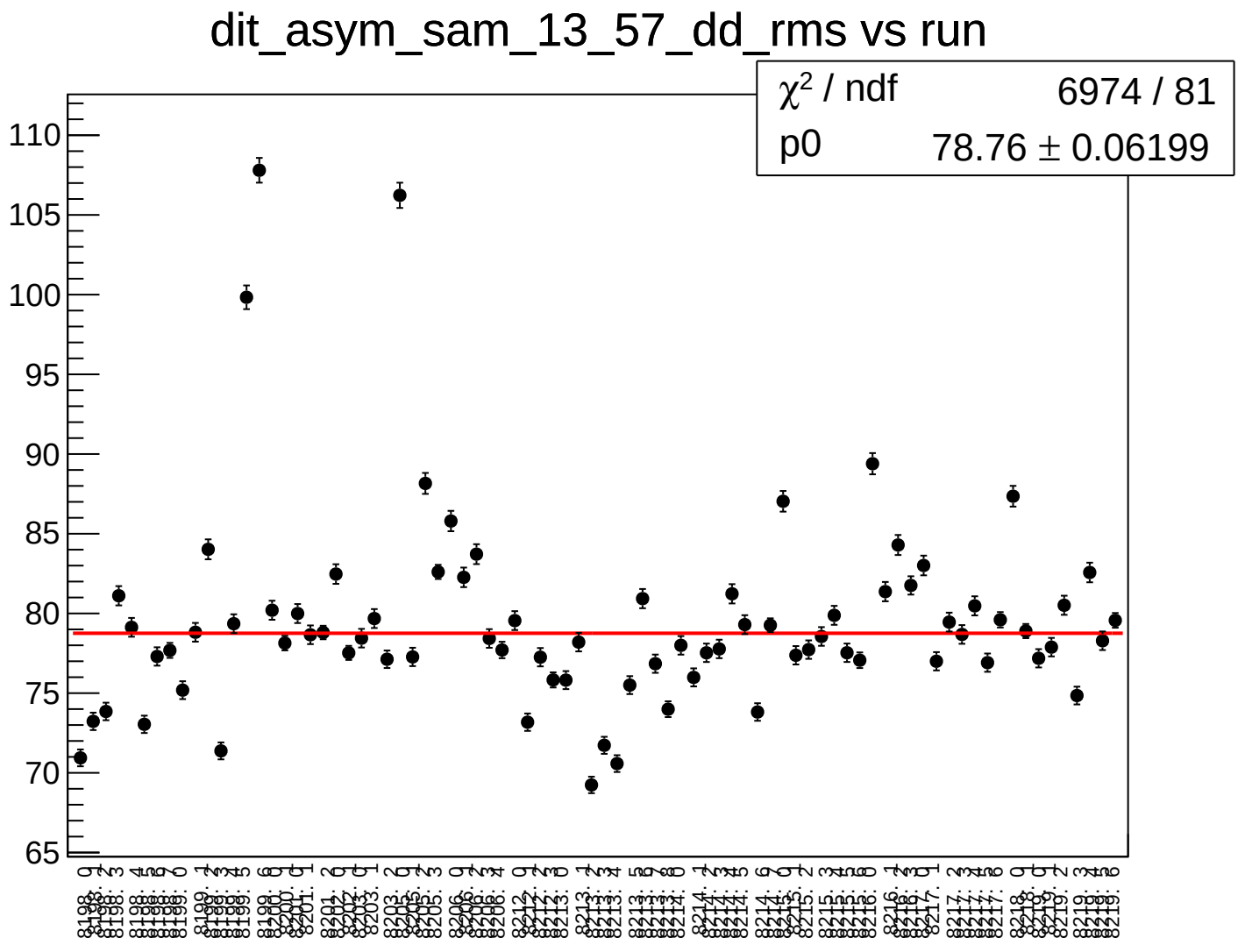
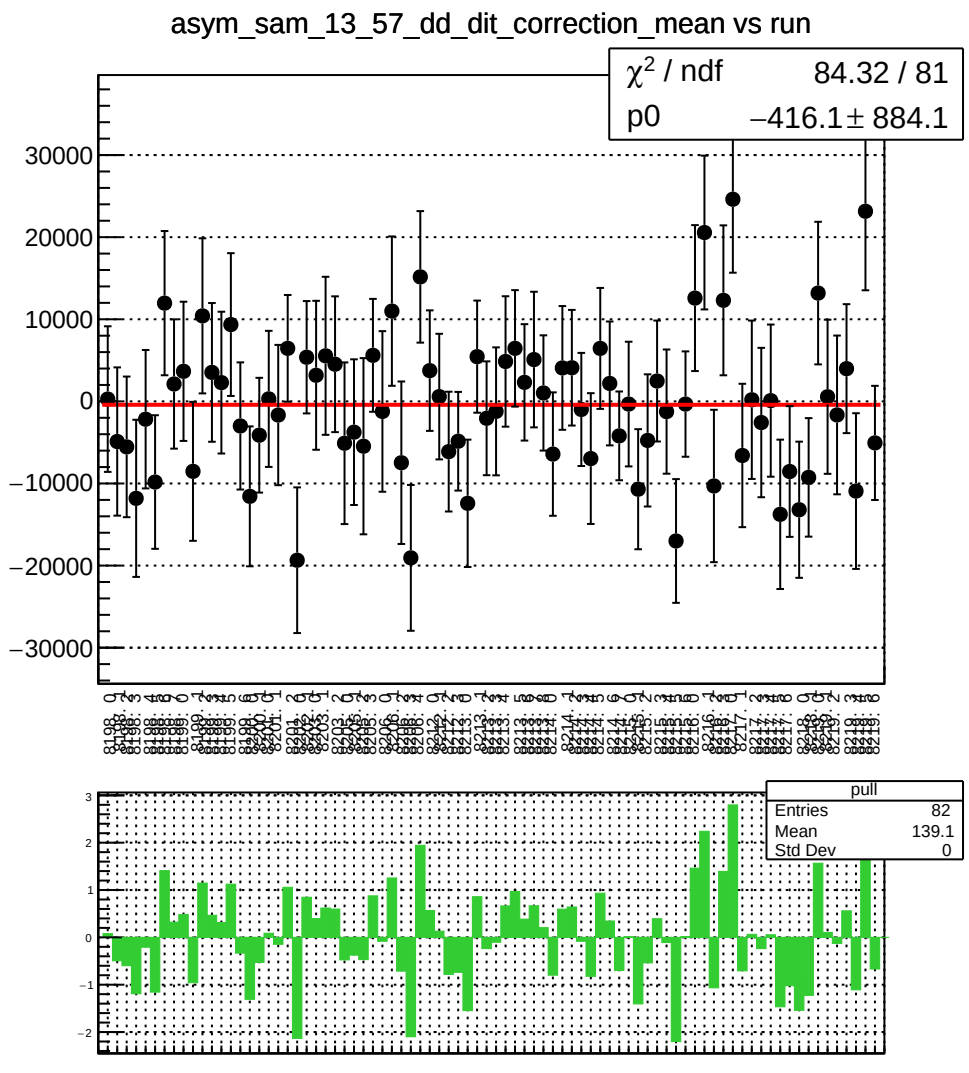
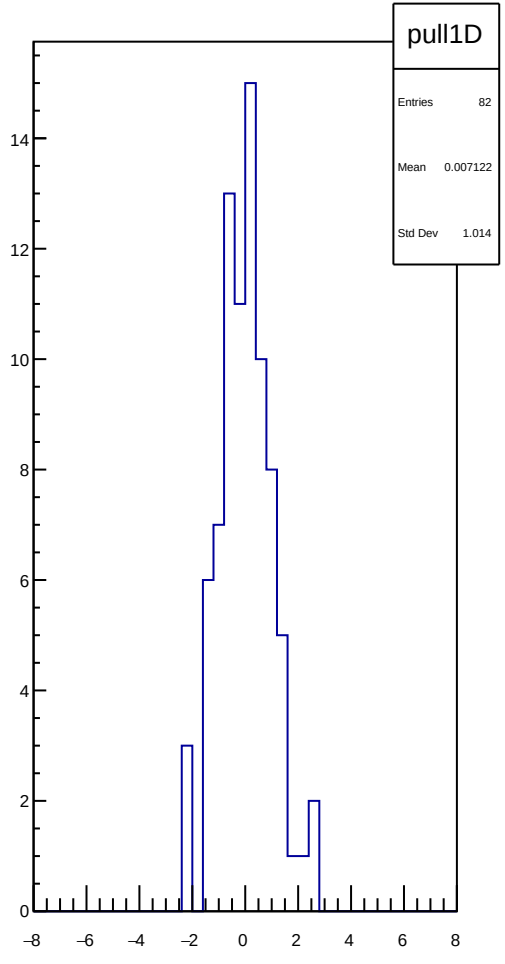
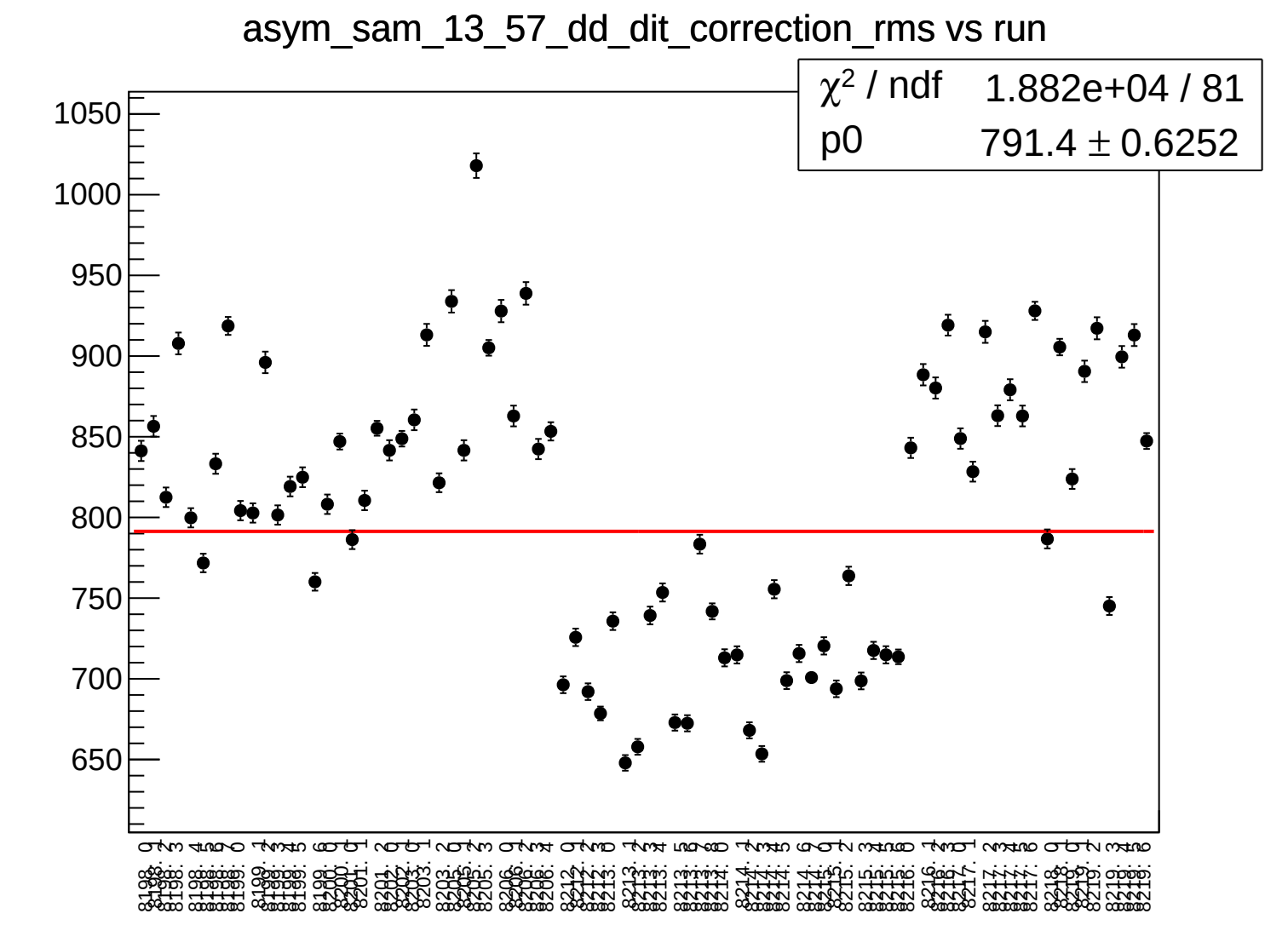
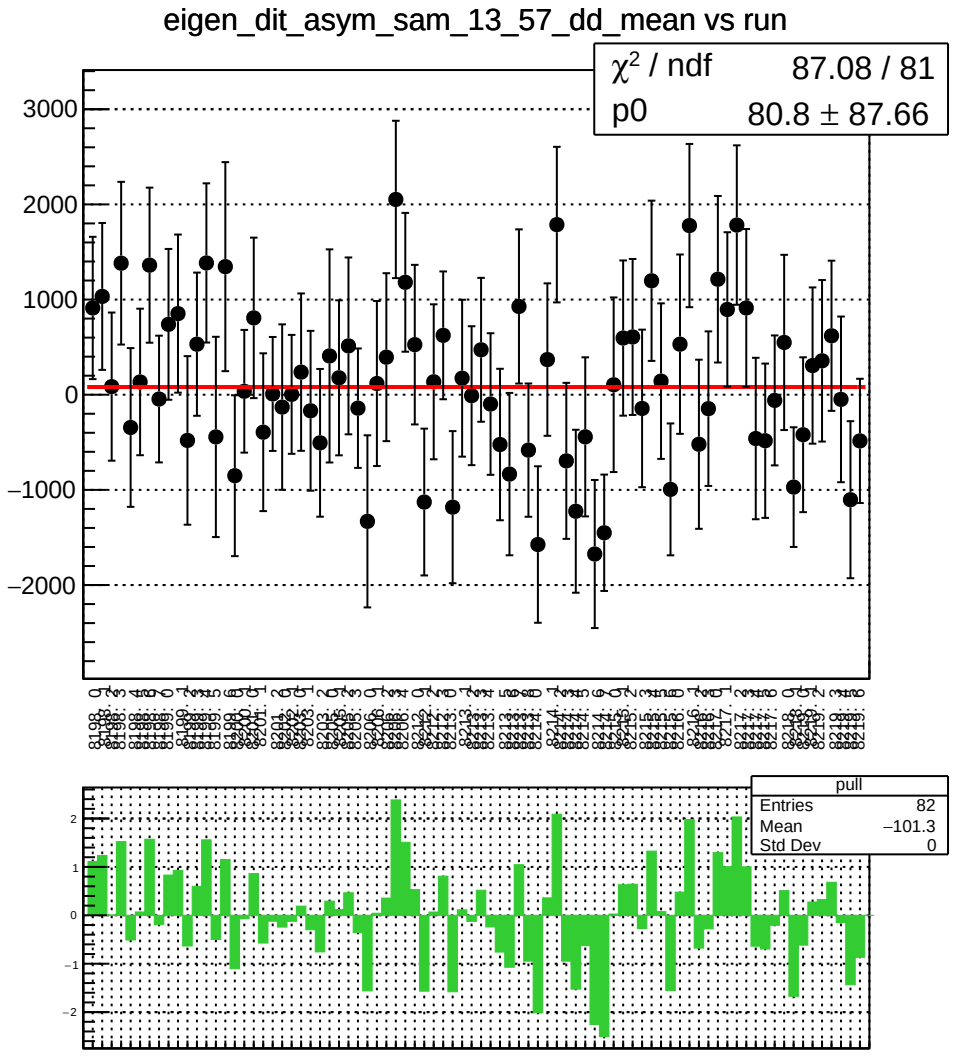
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

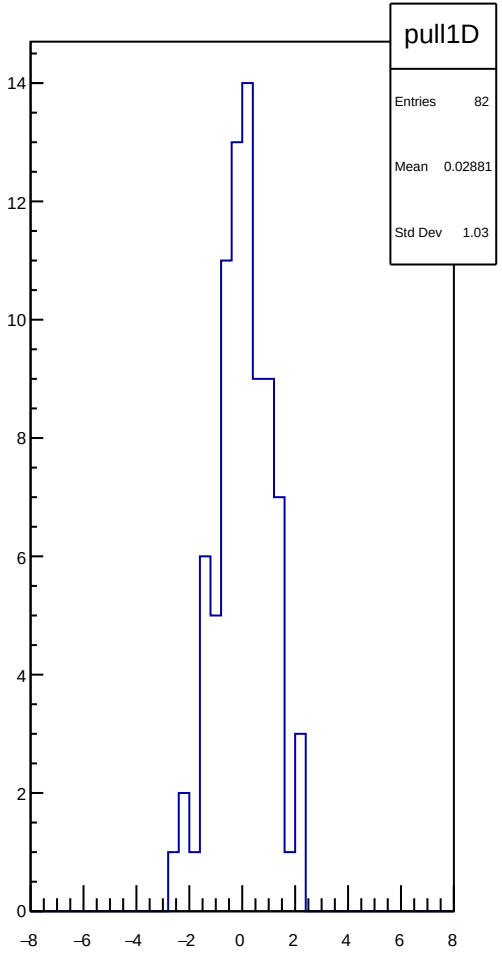

dit_asym_sam_13_57_dd_rms vs run
$\chi^2$ / ndf 6974 / 81
p0 78.76 ± 0.06199
110
105
100
95
90
85
80
75
70
65

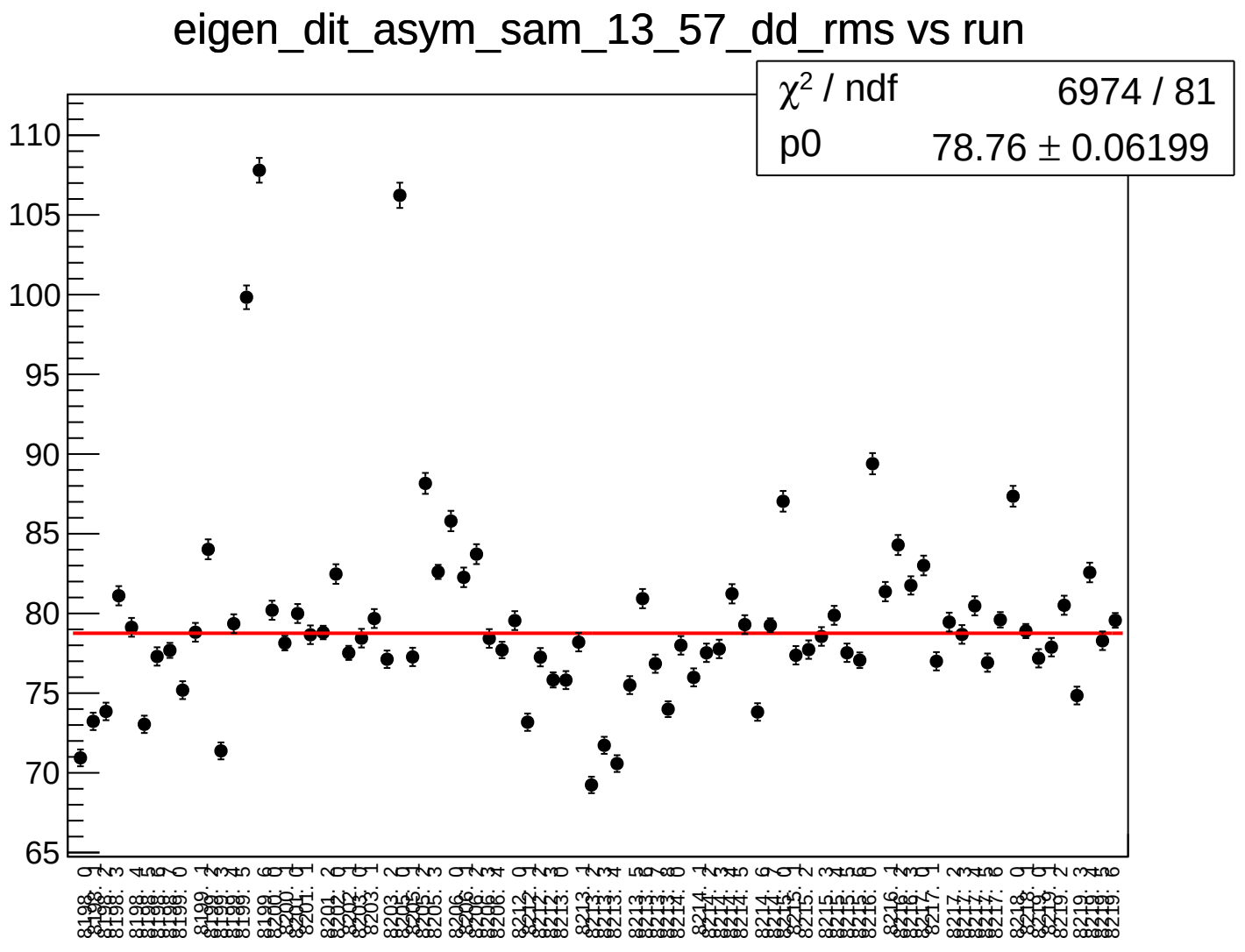

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 84.32 / 81
p0 −416.1 ± 884.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 139.1
Std Dev 0
3
2
1
0
−1
−2

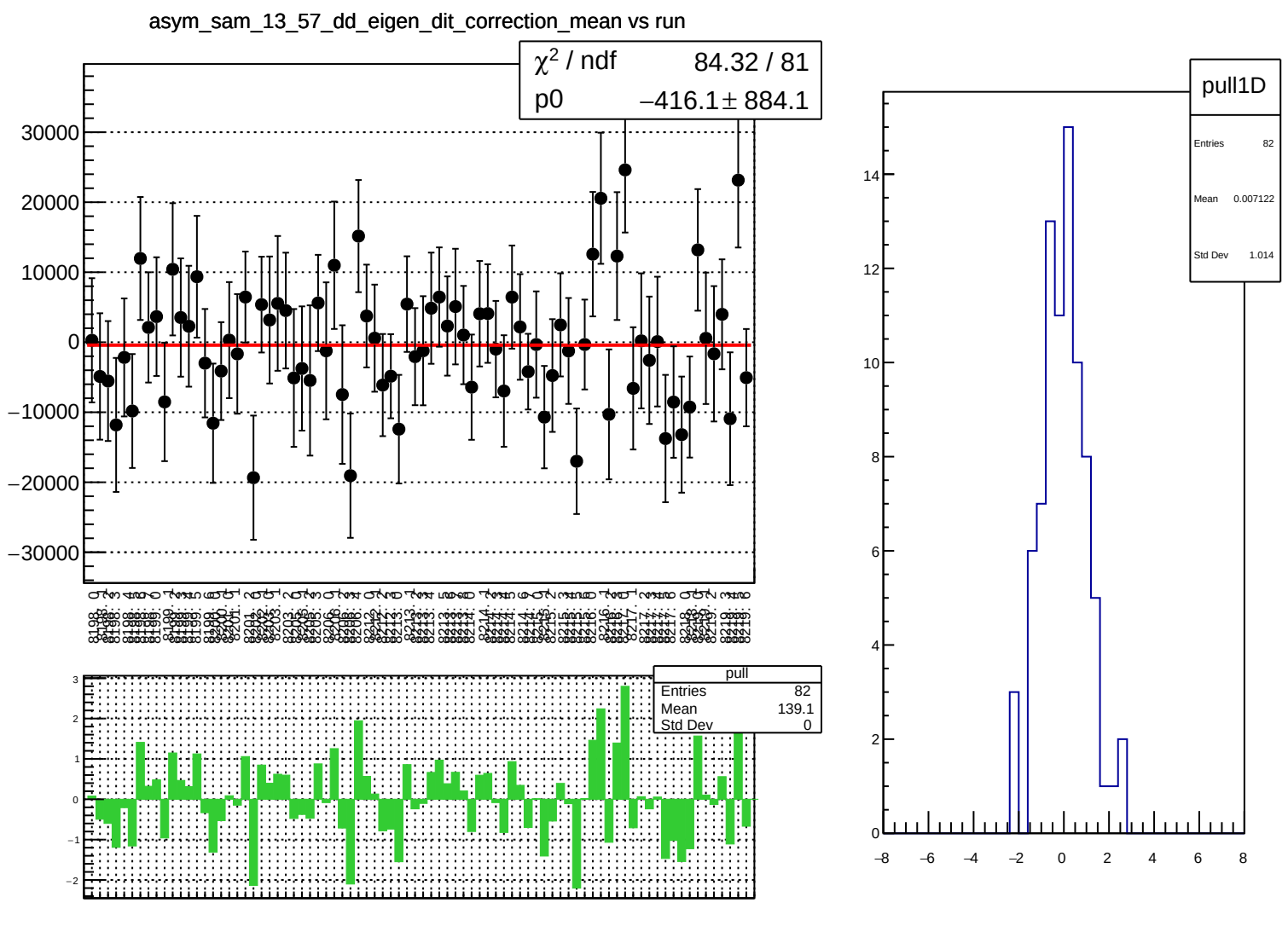

pull1D
Entries 82
Mean 0.007122
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

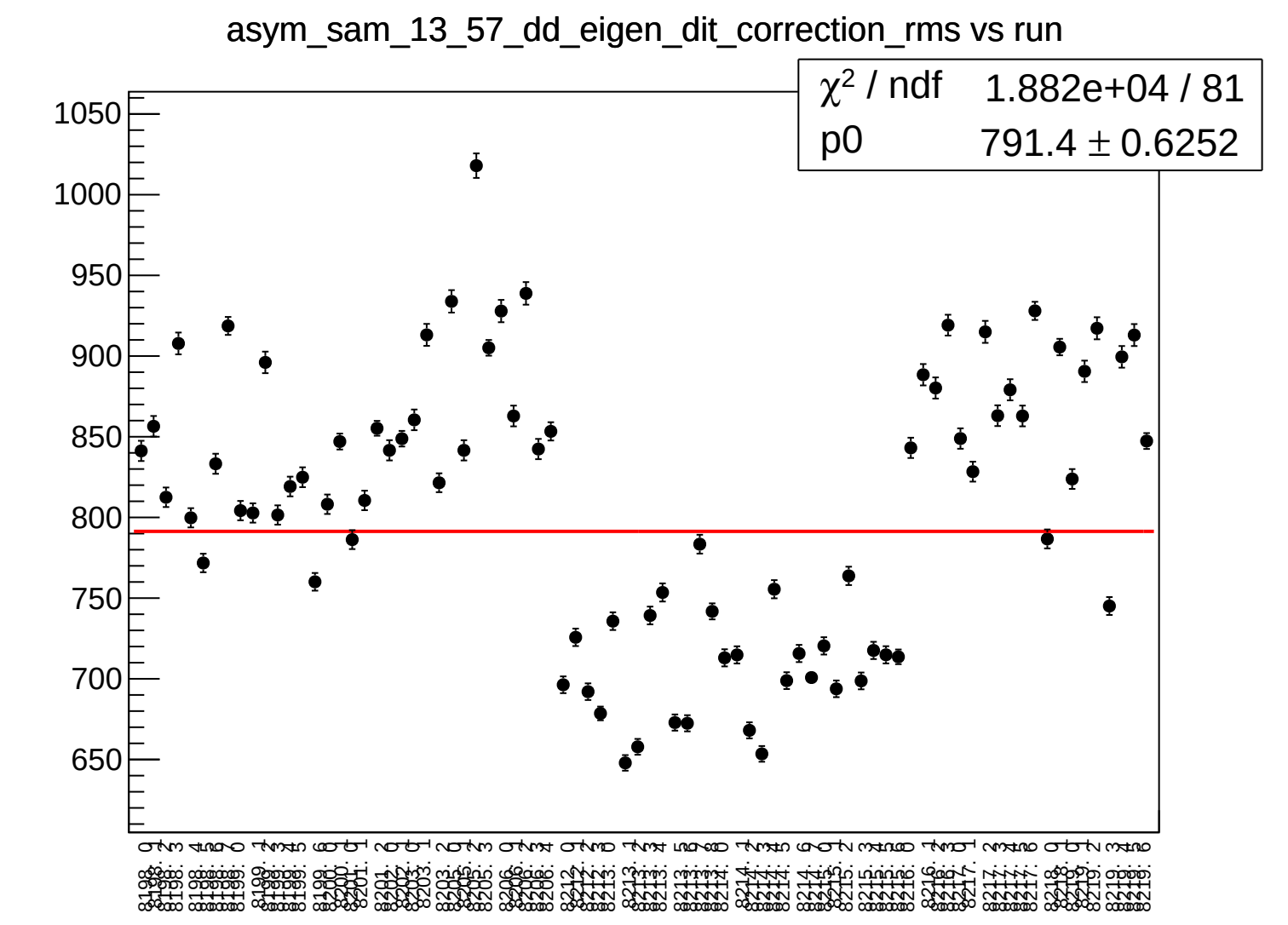

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1.882e+04 / 81
p0 791.4 ± 0.6252
1050
1000
950
900
850
800
750
700
650

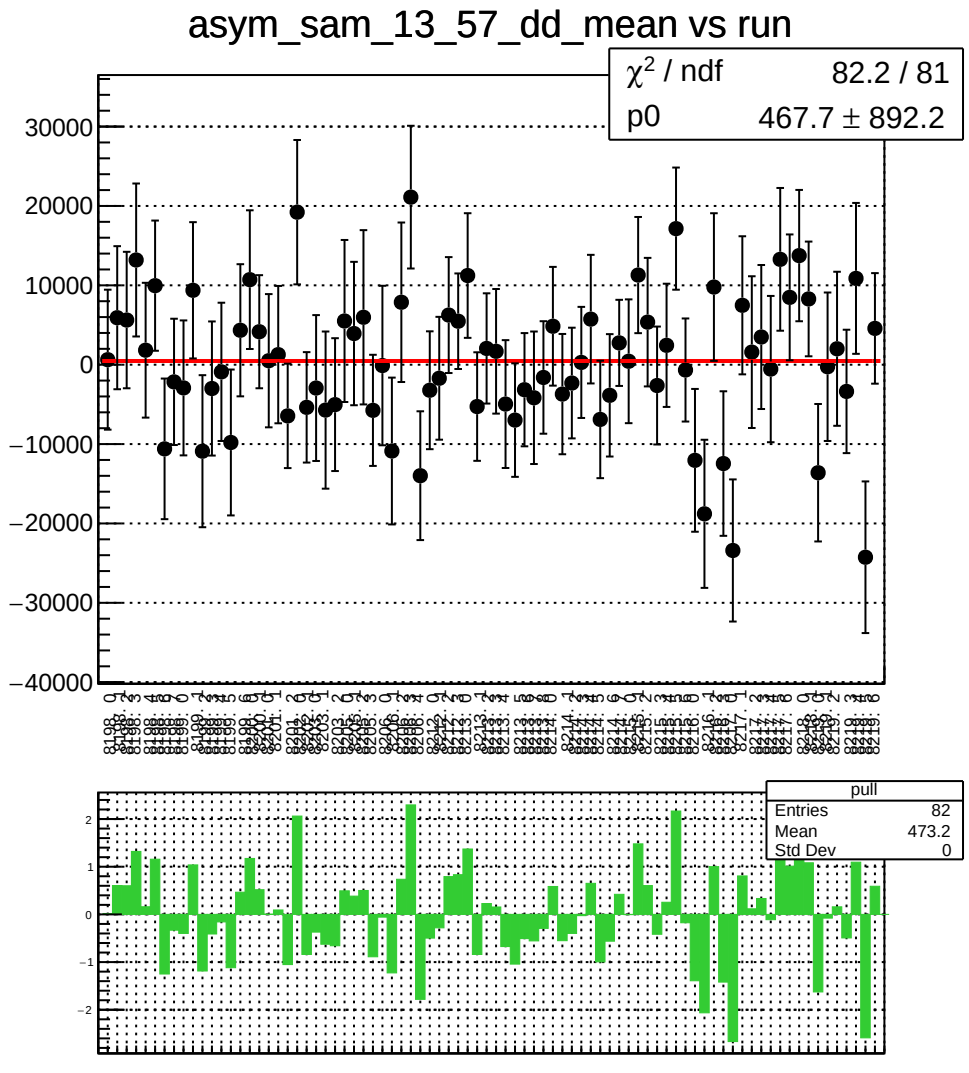

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.08 / 81
p0 80.8 ± 87.66
3000
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −101.3
Std Dev 0
2
1
0
−1
−2

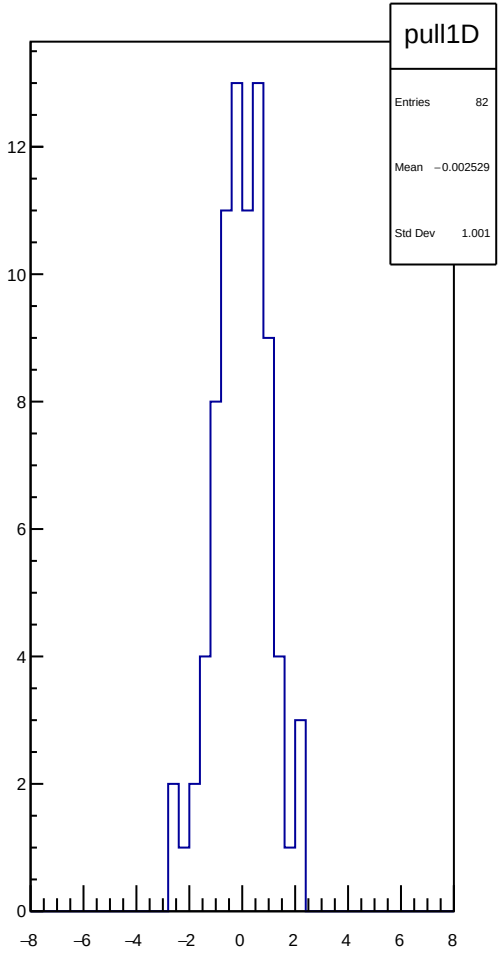

pull1D
Entries 82
Mean 0.02881
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

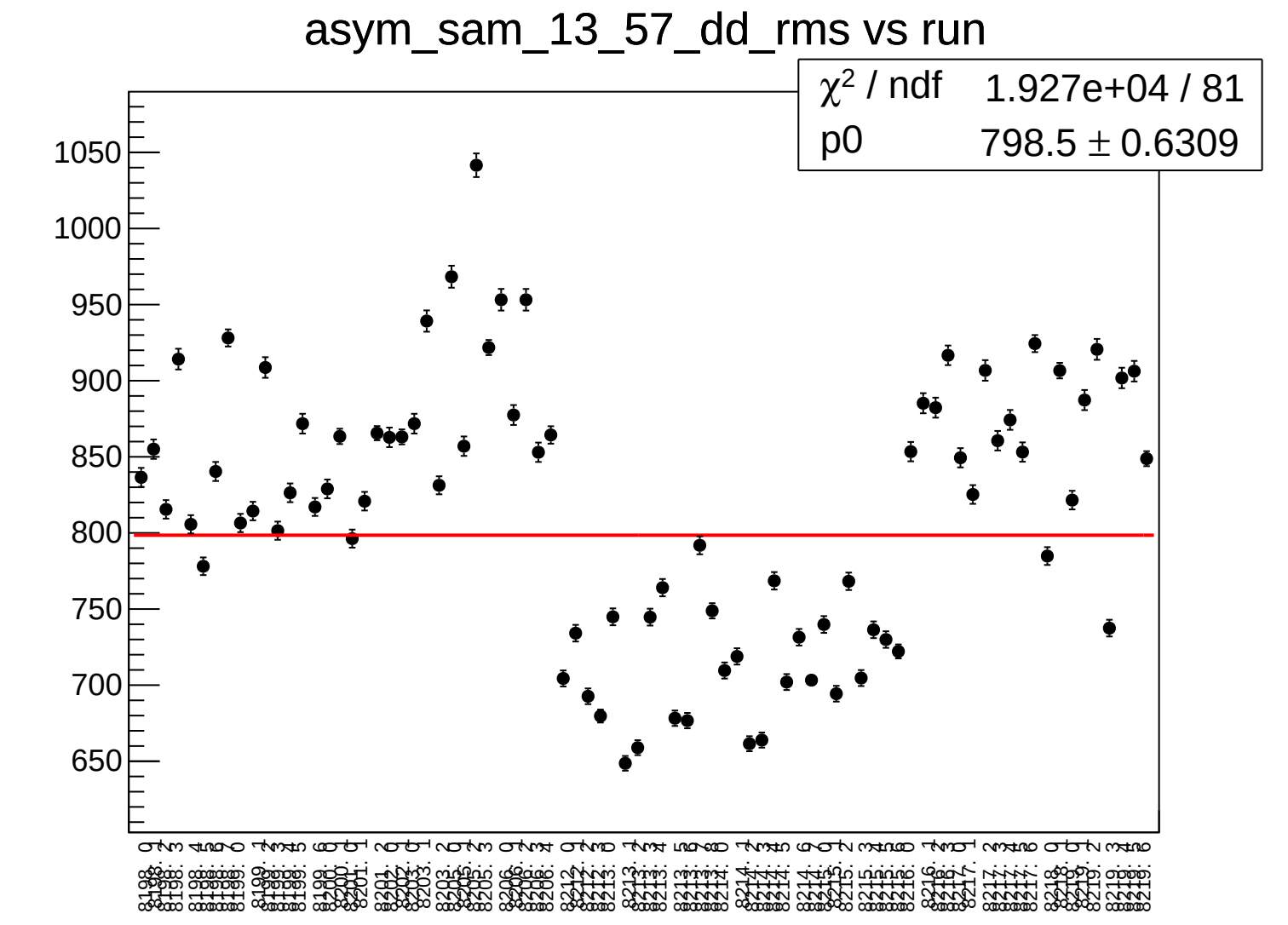

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 6974 / 81
p0 78.76 ± 0.06199
110
105
100
95
90
85
80
75
70
65

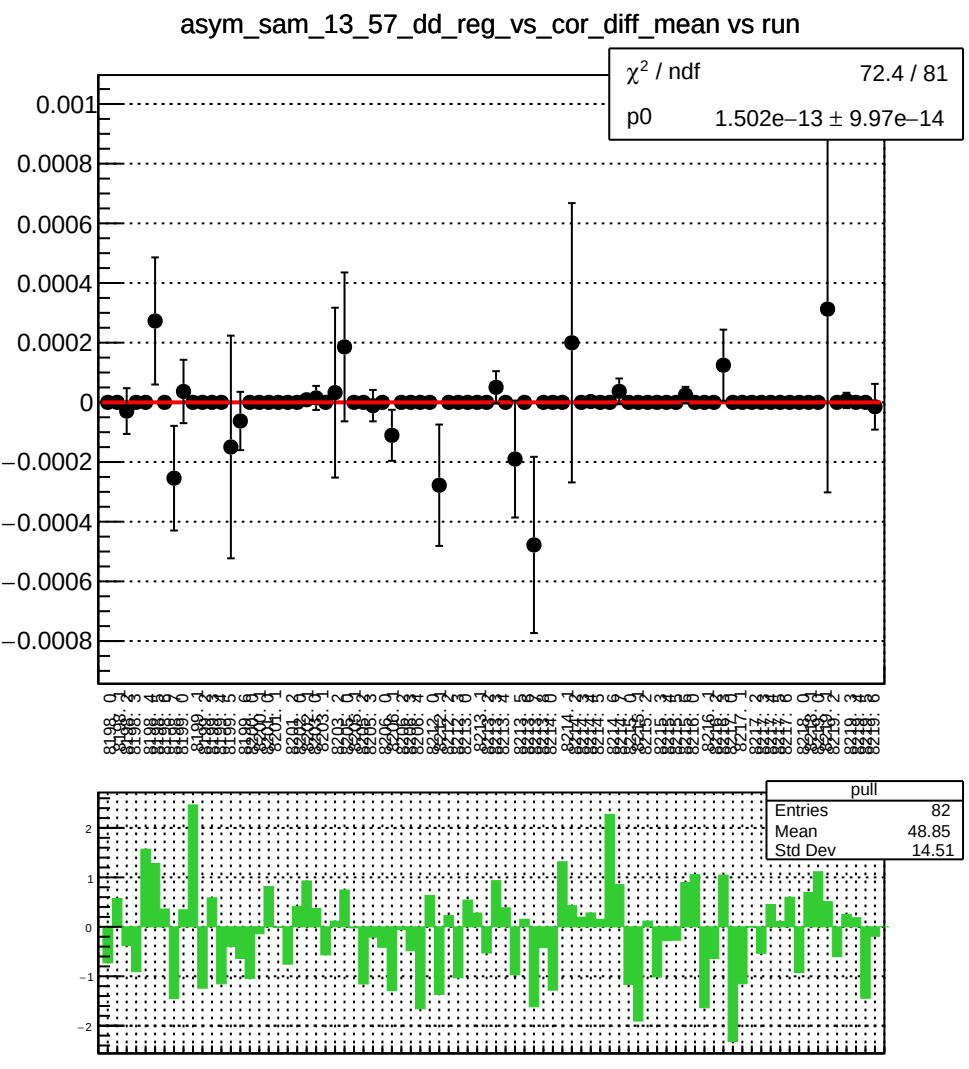

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.32 / 81
p0 −416.1 ± 884.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 139.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.007122
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

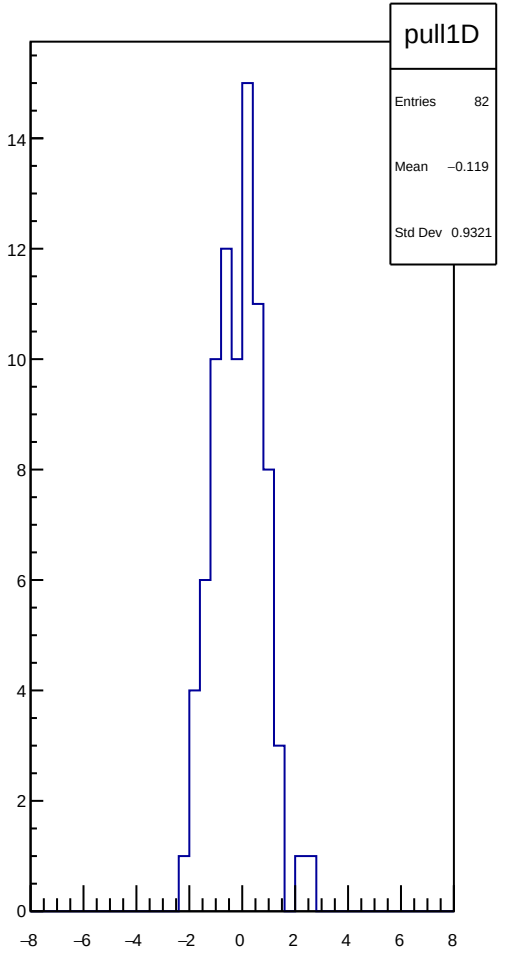

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.882e+04 / 81
p0 791.4 ± 0.6252
1050
1000
950
900
850
800
750
700
650

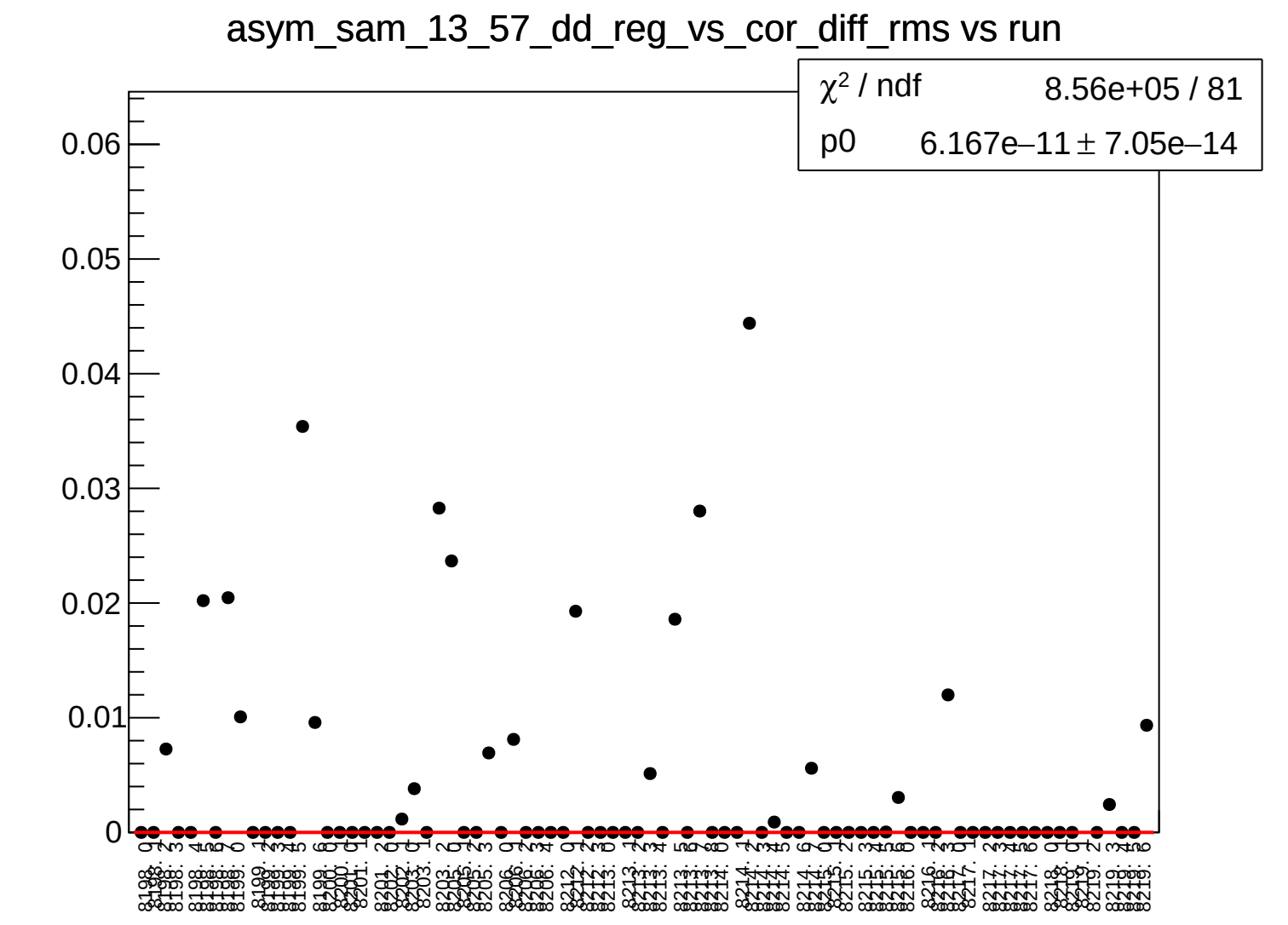

asym_sam_13_57_dd_mean vs run
χ² / ndf 82.2 / 81
p0 467.7 ± 892.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean 473.2
Std Dev 0
2
1
0
−1
−2

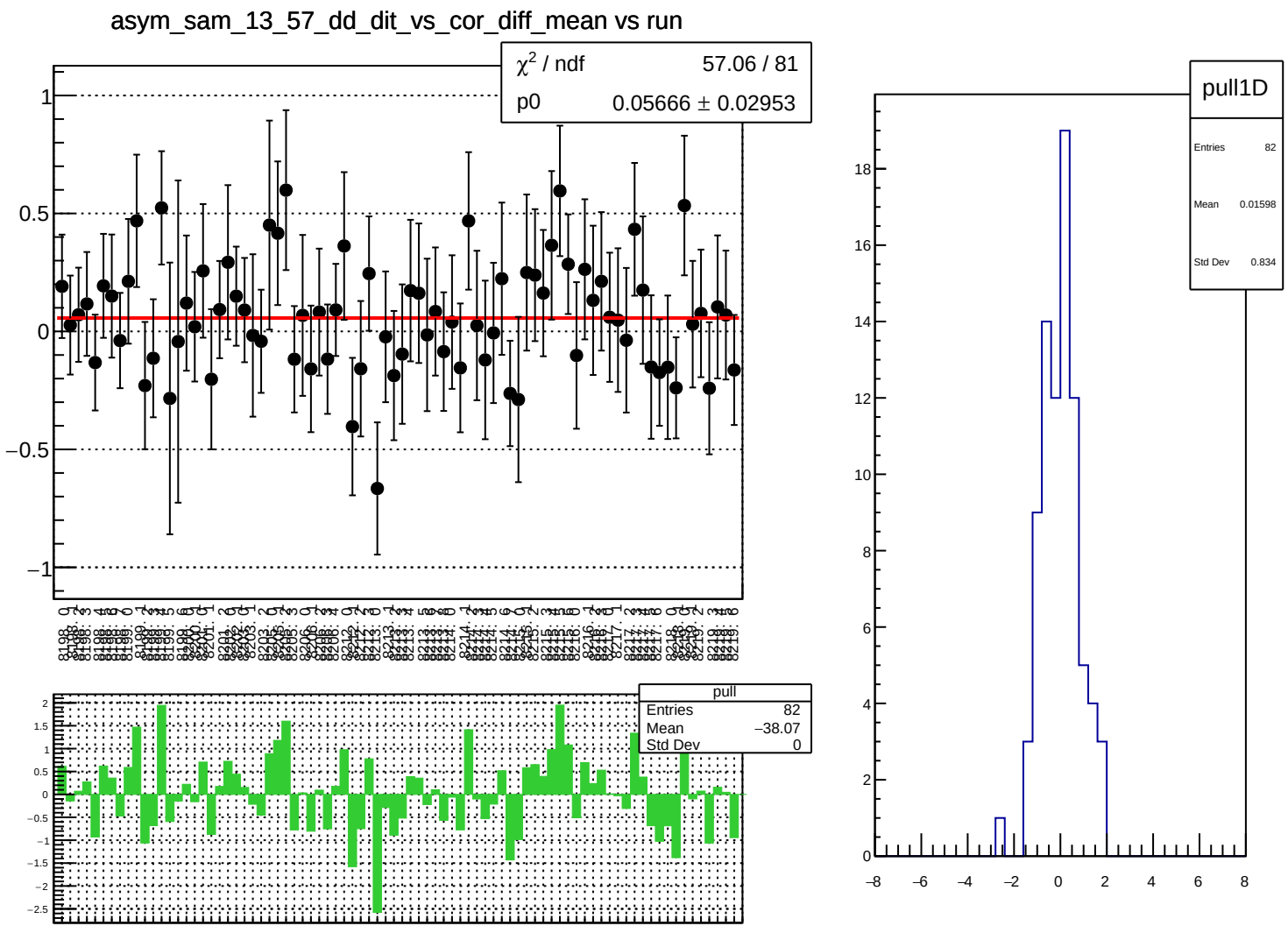

pull1D
Entries 82
Mean −0.002529
Std Dev 1.001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

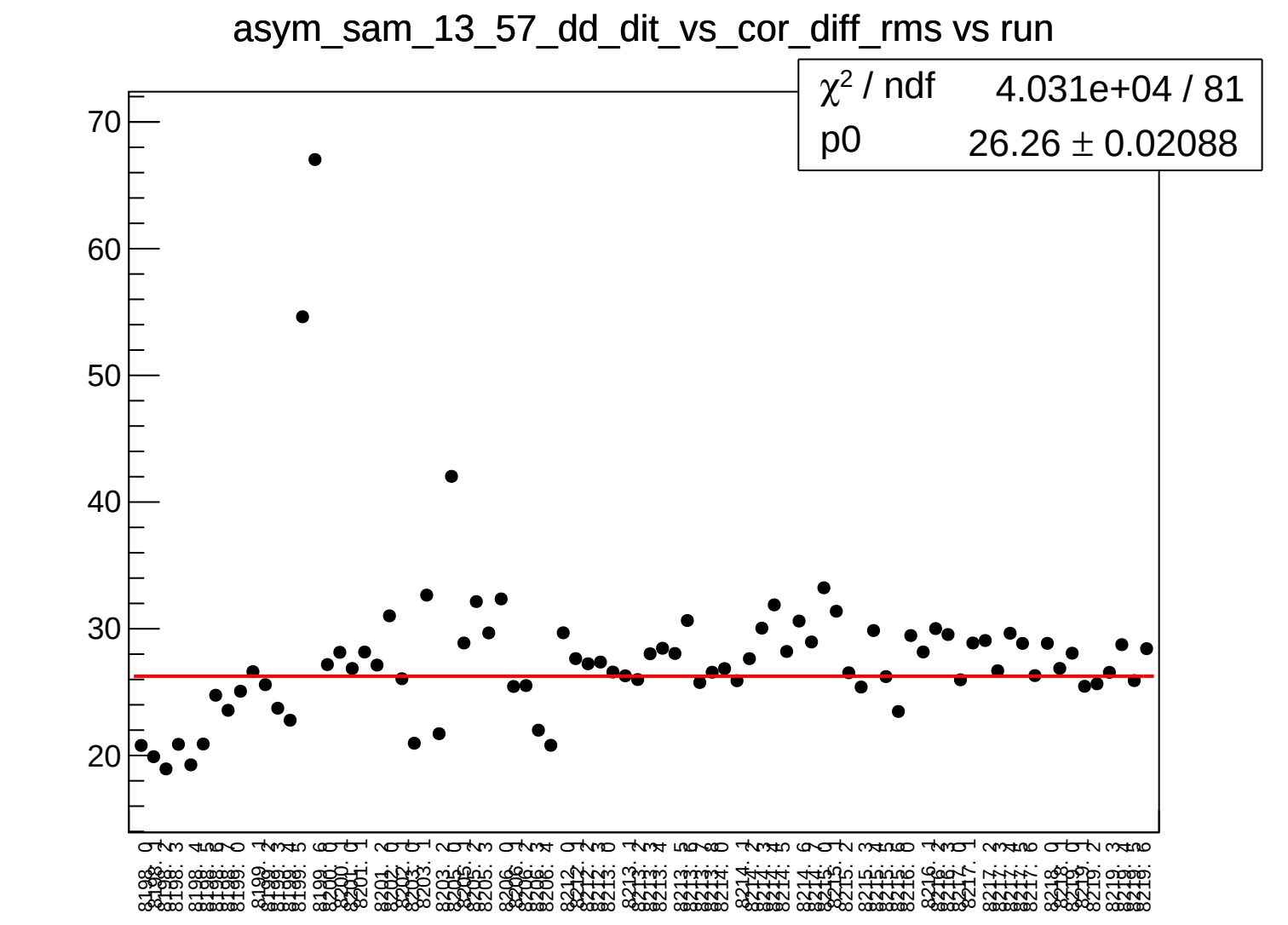

asym_sam_13_57_dd_rms vs run
χ² / ndf 1.927e+04 / 81
p0 798.5 ± 0.6309
1050
1000
950
900
850
800
750
700
650

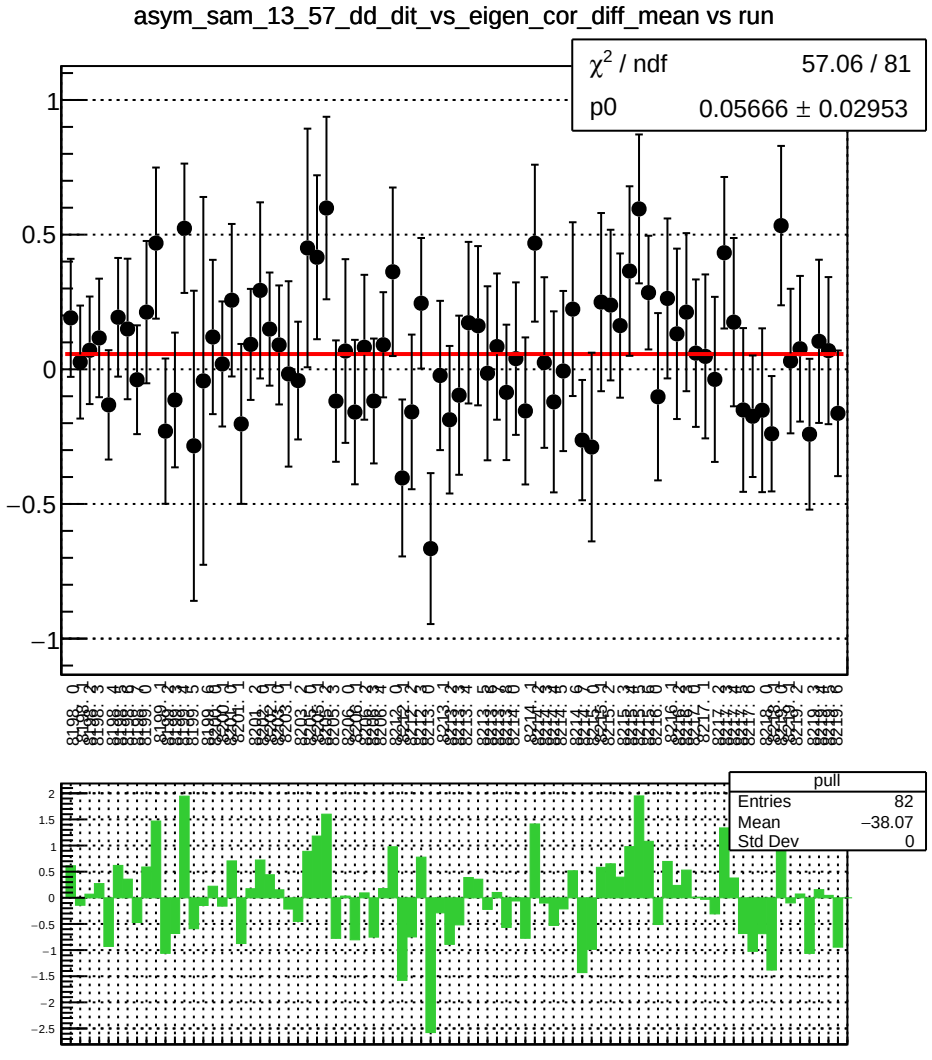

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.4 / 81
p0 1.502e−13 ± 9.97e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 82
Mean 48.85
Std Dev 14.51
2
1
0
−1
−2

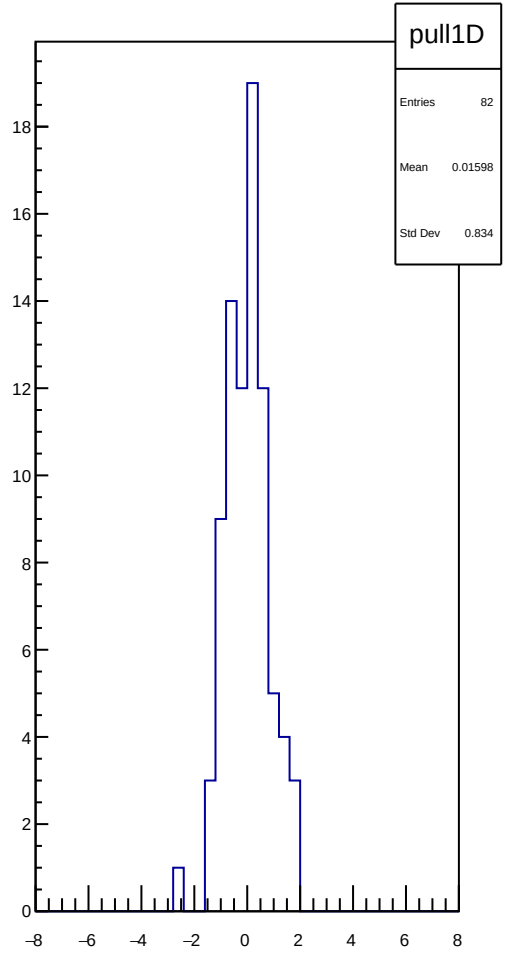

pull1D
Entries 82
Mean −0.119
Std Dev 0.9321
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

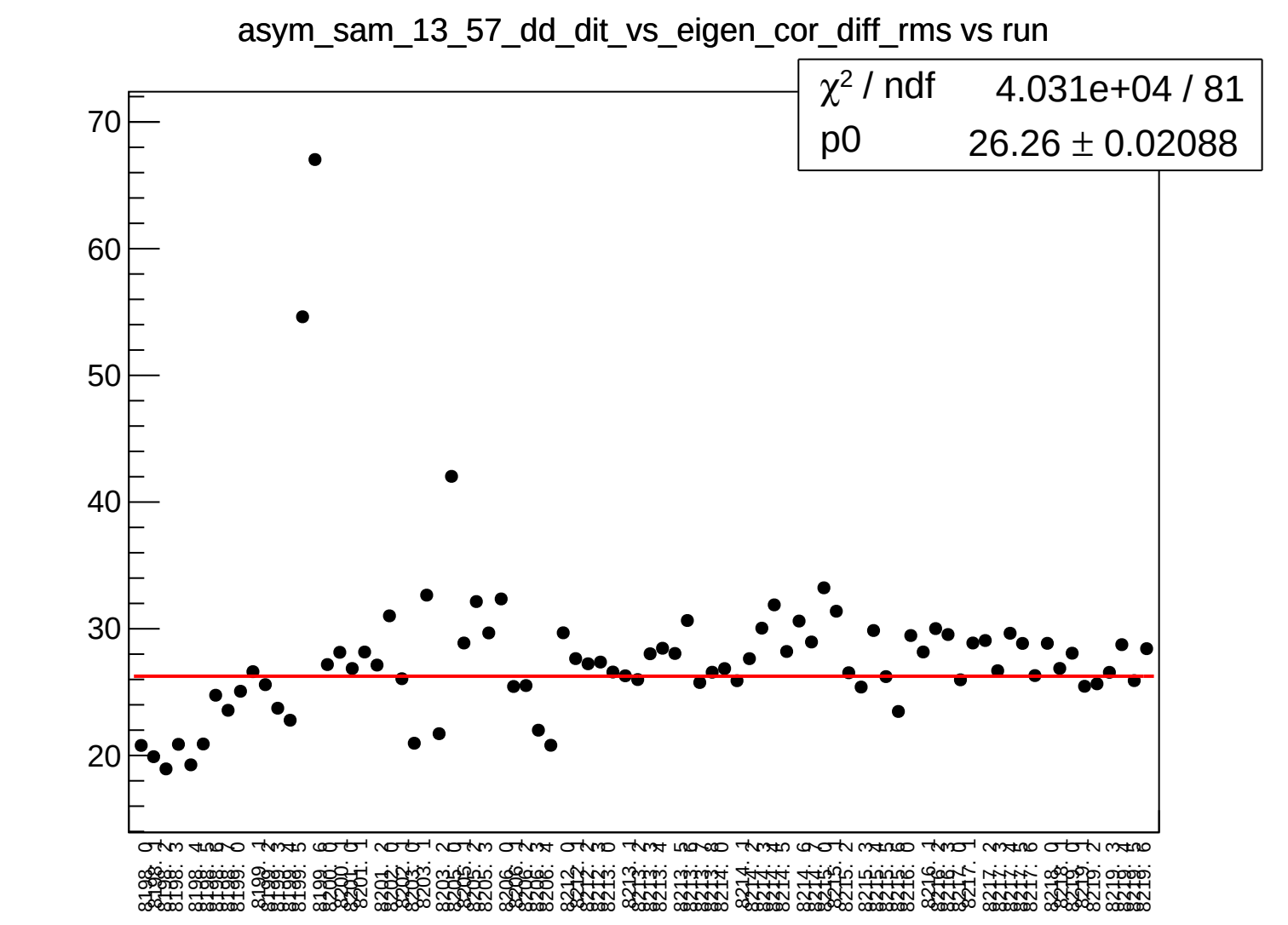

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.56e+05 / 81
p0 6.167e−11 ± 7.05e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

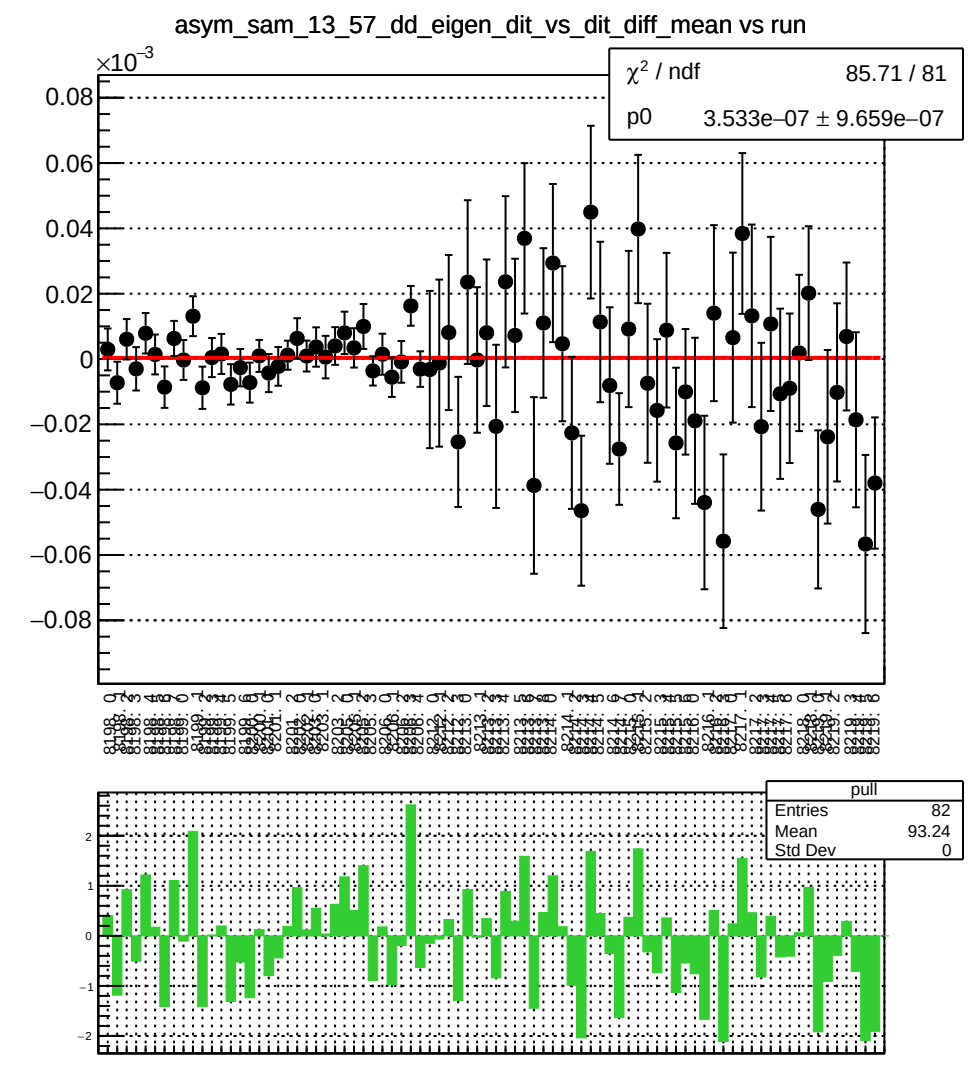

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 57.06 / 81
p0 0.05666 ± 0.02953
pull
Entries 82
Mean −38.07
Std Dev 0
pull1D
Entries 82
Mean 0.01598
Std Dev 0.834

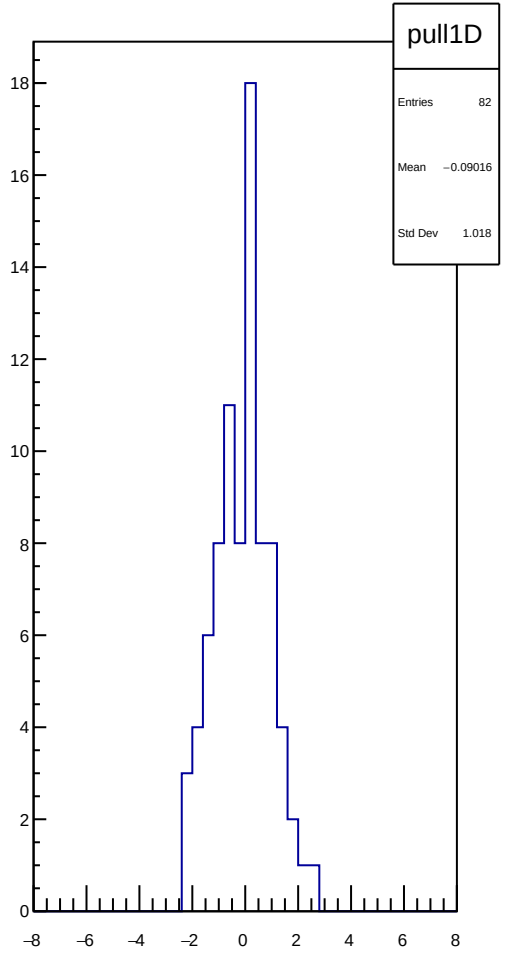

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.031e+04 / 81
p0 26.26 ± 0.02088
70
60
50
40
30
20

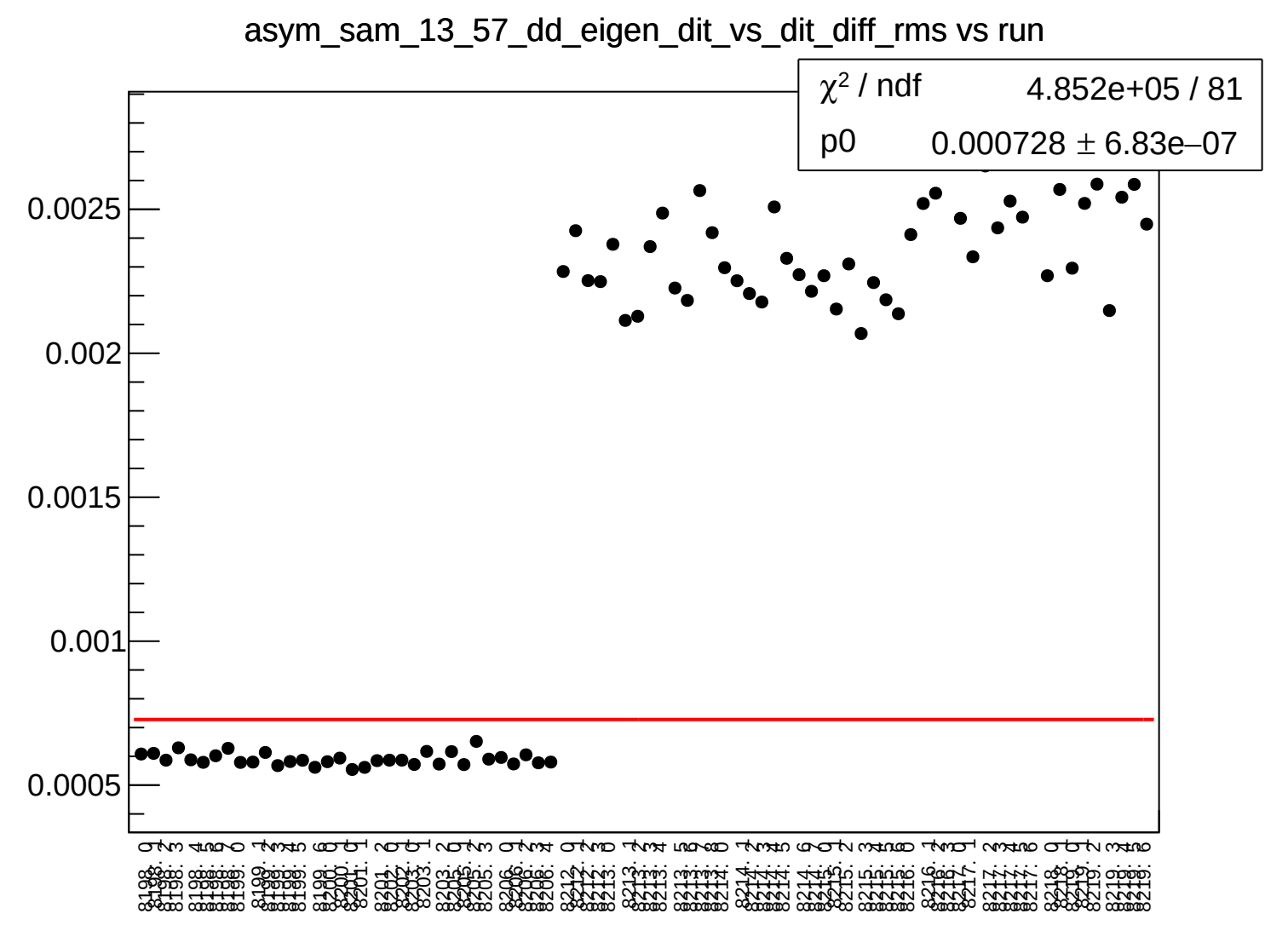

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.06 / 81
p0 0.05666 ± 0.02953
pull
Entries 82
Mean −38.07
Std Dev 0

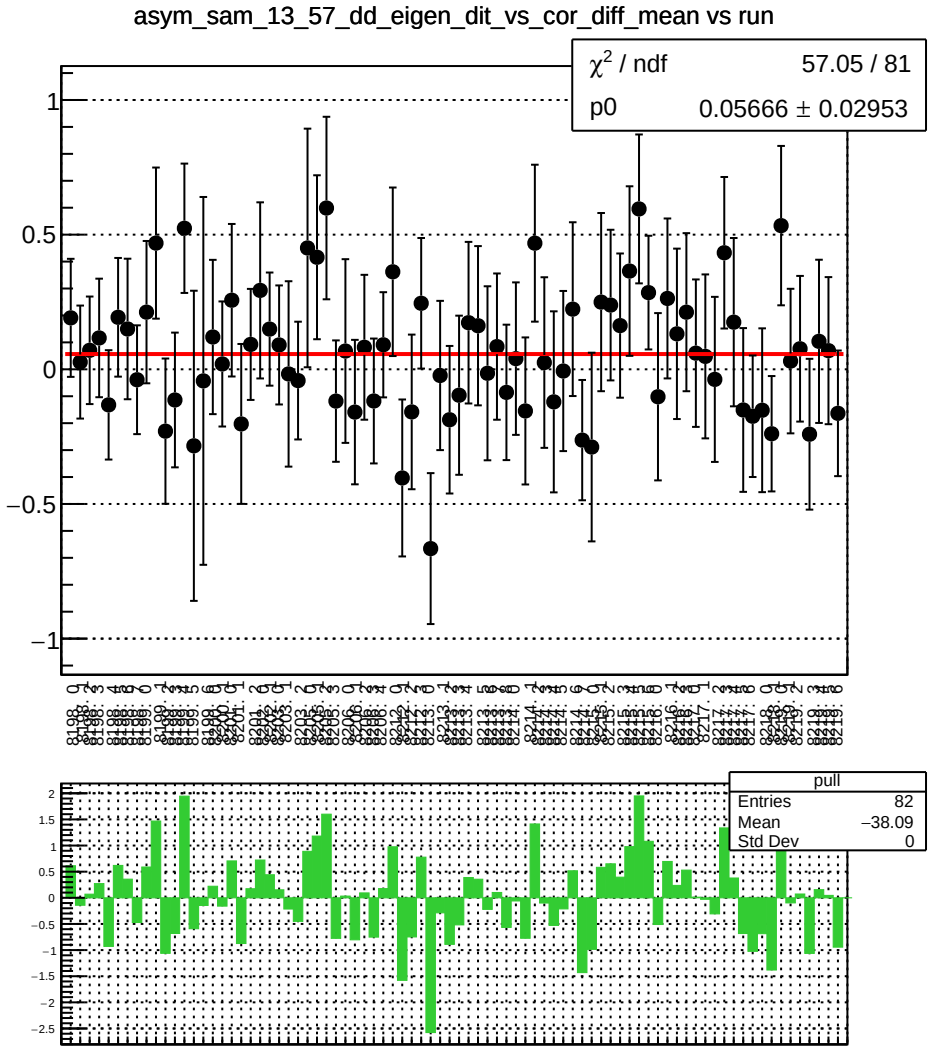

pull1D
Entries 82
Mean 0.01598
Std Dev 0.834

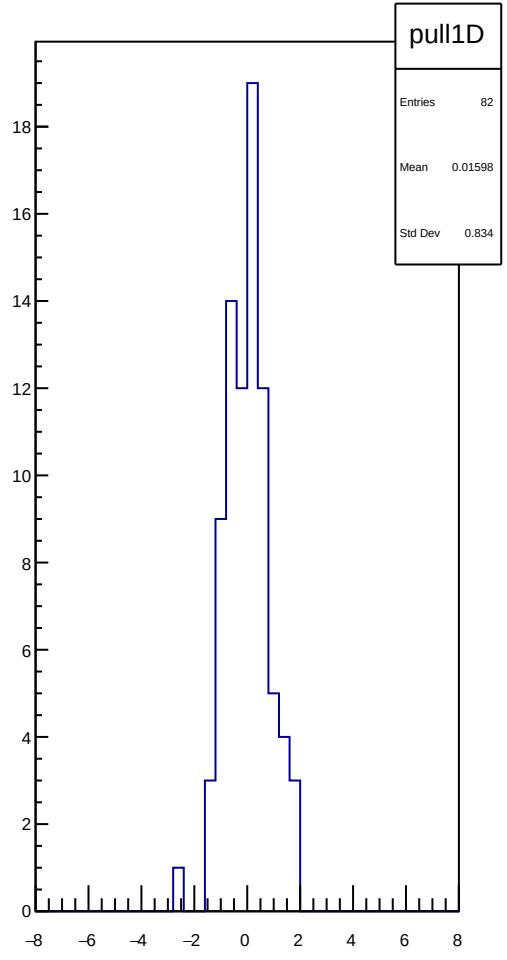

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.031e+04 / 81
p0 26.26 ± 0.02088
70
60
50
40
30
20

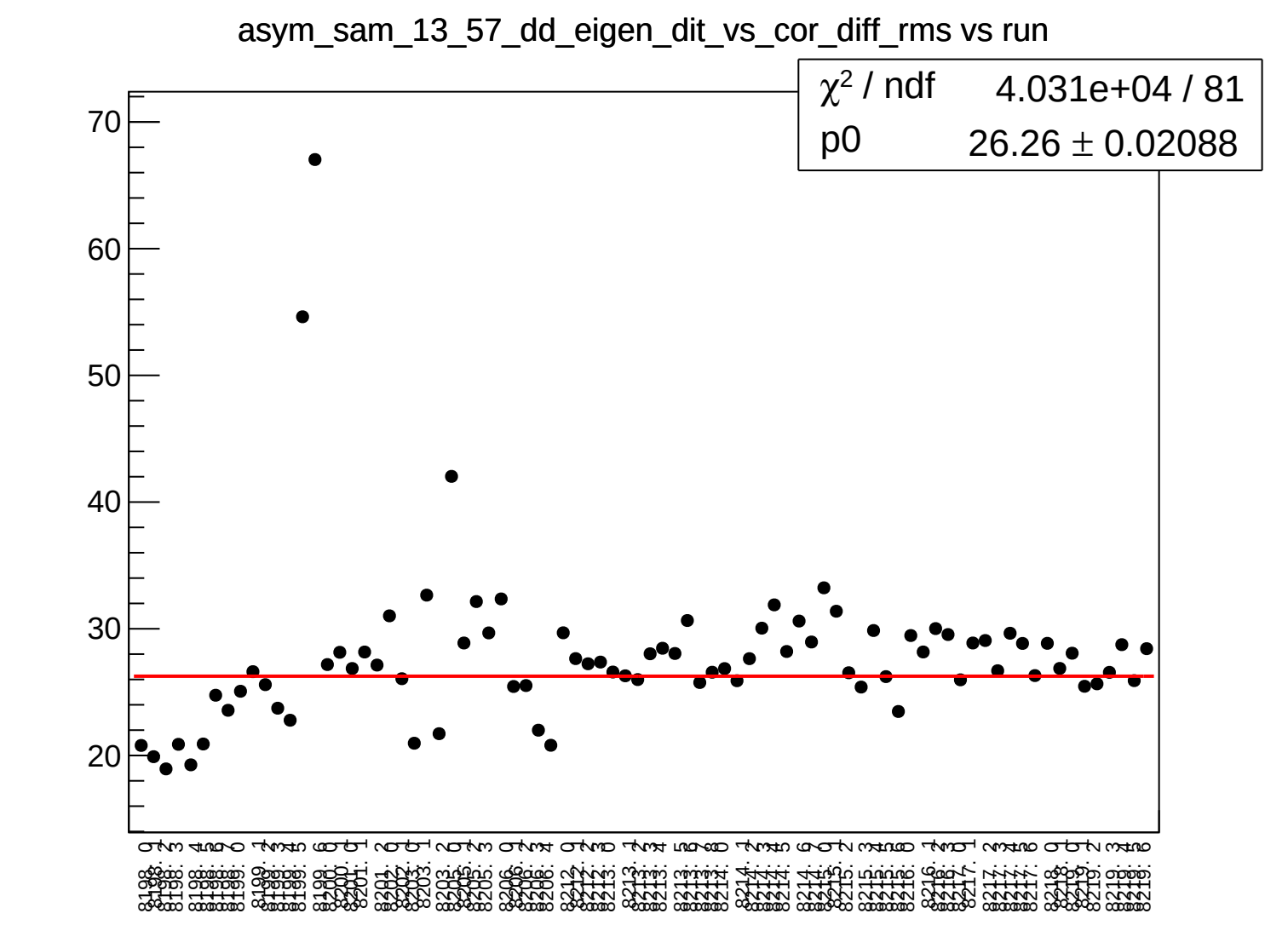

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 85.71 / 81
p0 3.533e−07 ± 9.659e−07
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 82
Mean 93.24
Std Dev 0
2
1
0
−1
−2

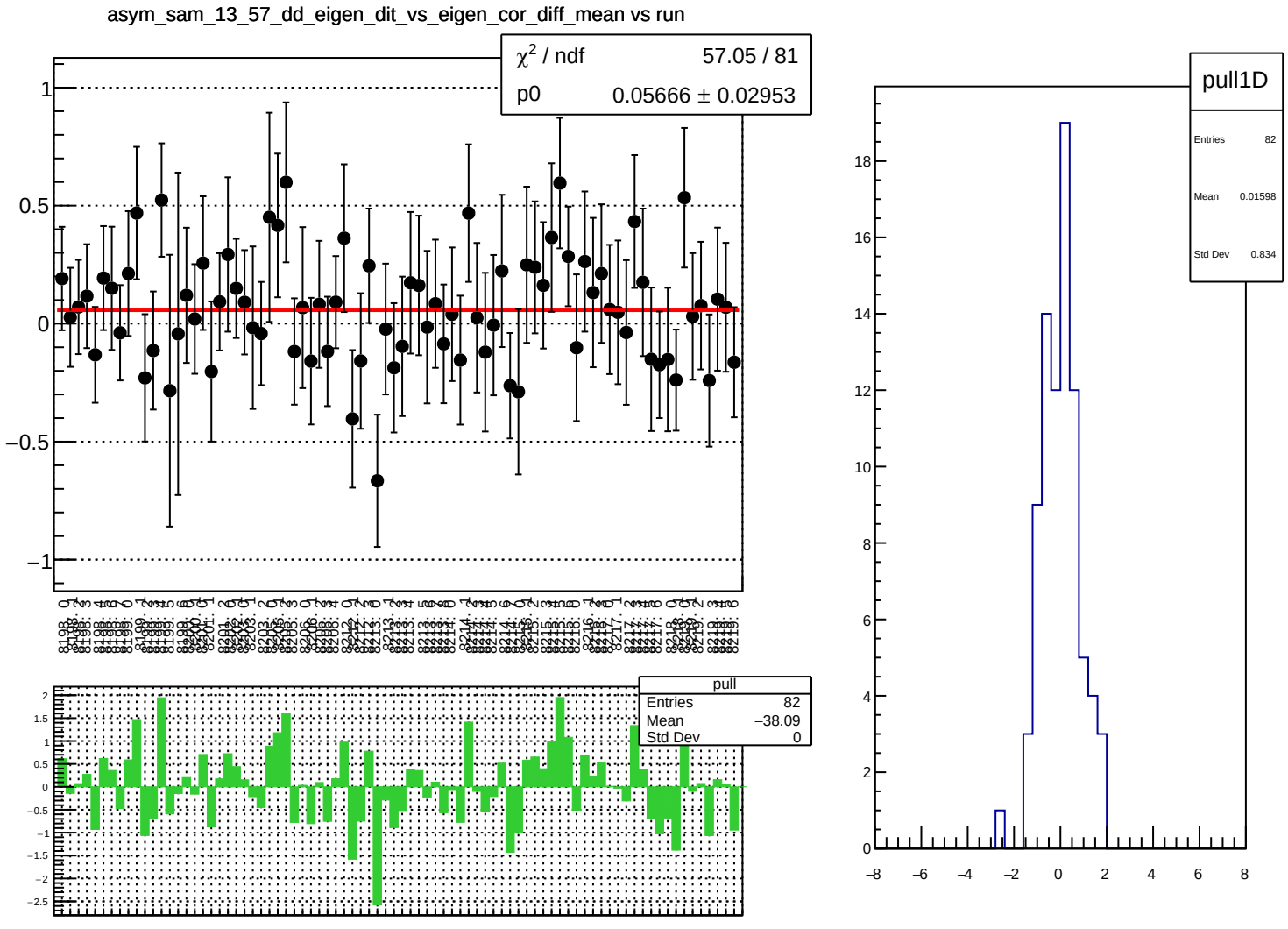

pull1D
Entries 82
Mean −0.09016
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

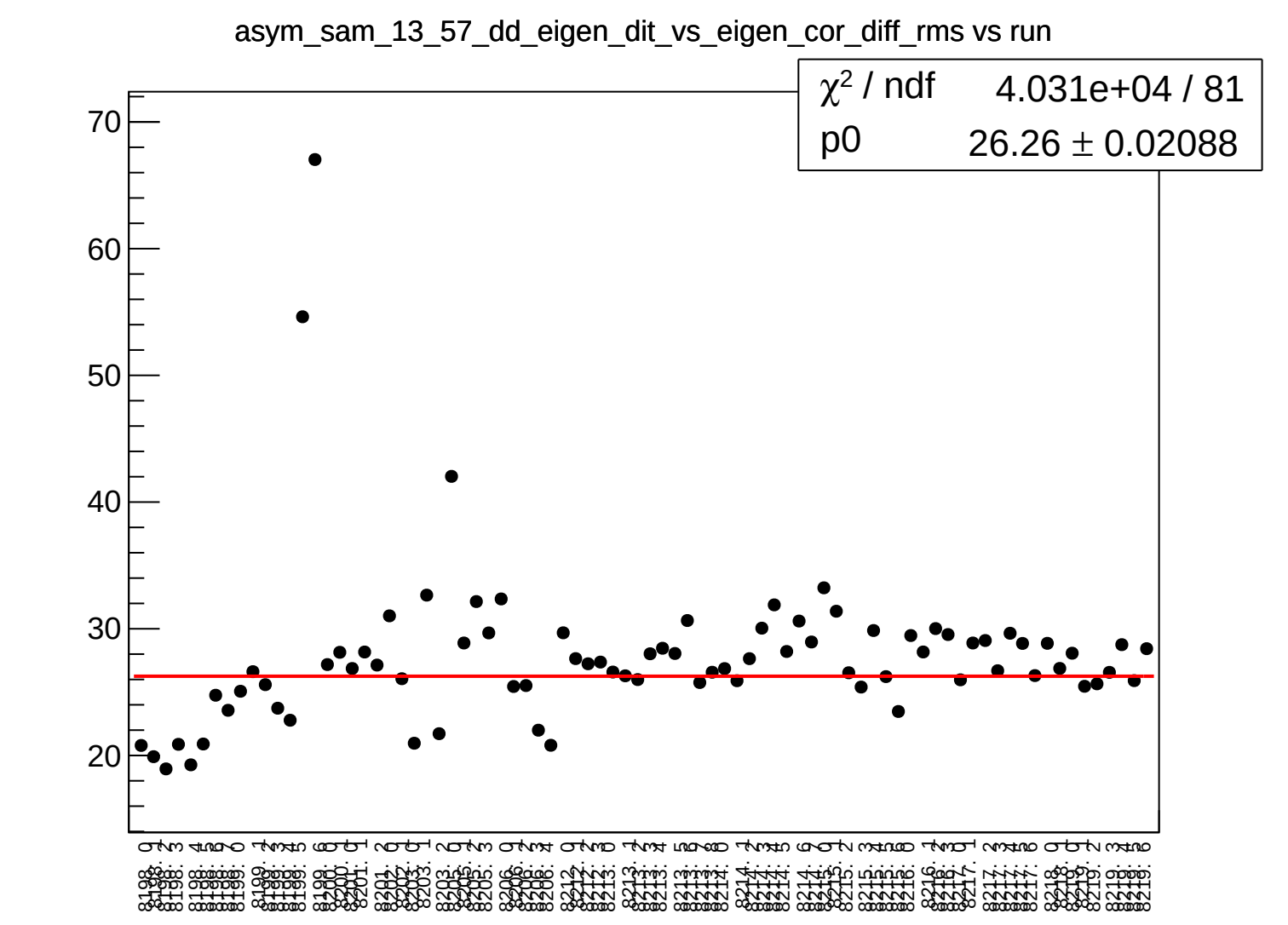

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.852e+05 / 81
p0 0.000728 ± 6.83e–07
0.0025
0.002
0.0015
0.001
0.0005

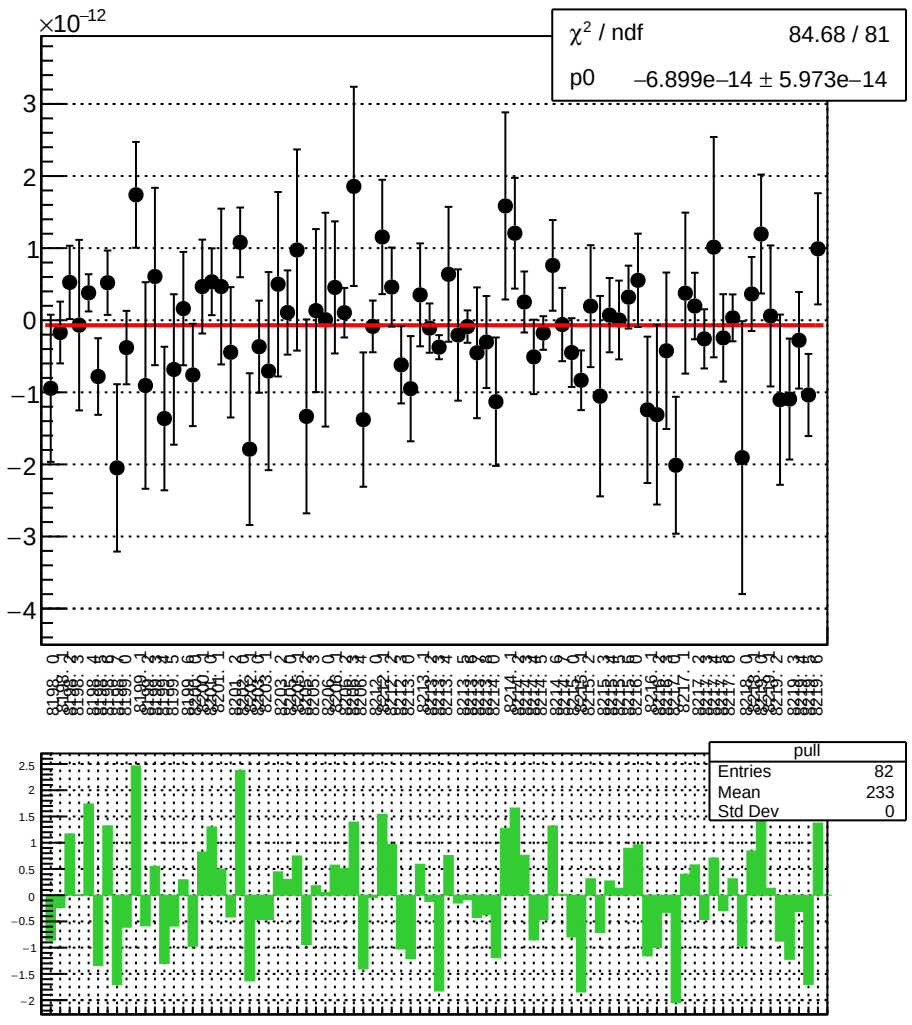

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.05 / 81
p0 0.05666 ± 0.02953
pull
Entries 82
Mean −38.09
Std Dev 0

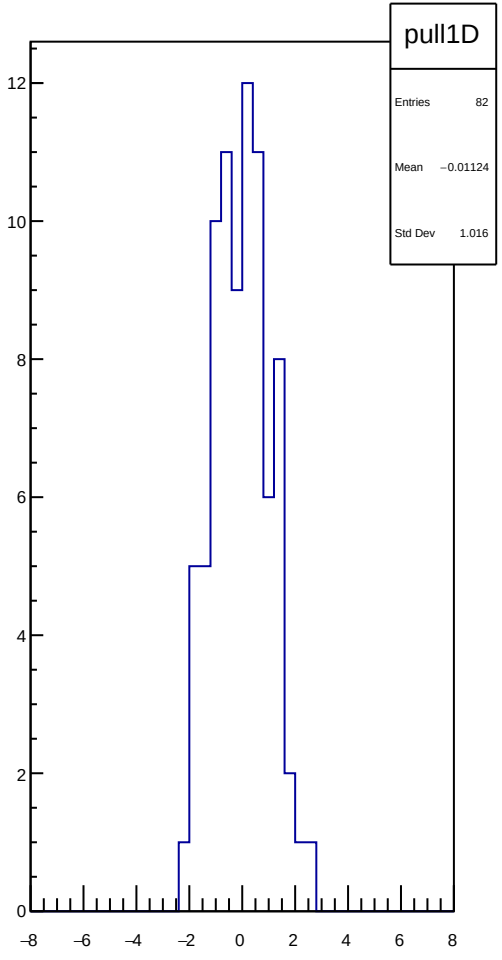

pull1D
Entries 82
Mean 0.01598
Std Dev 0.834

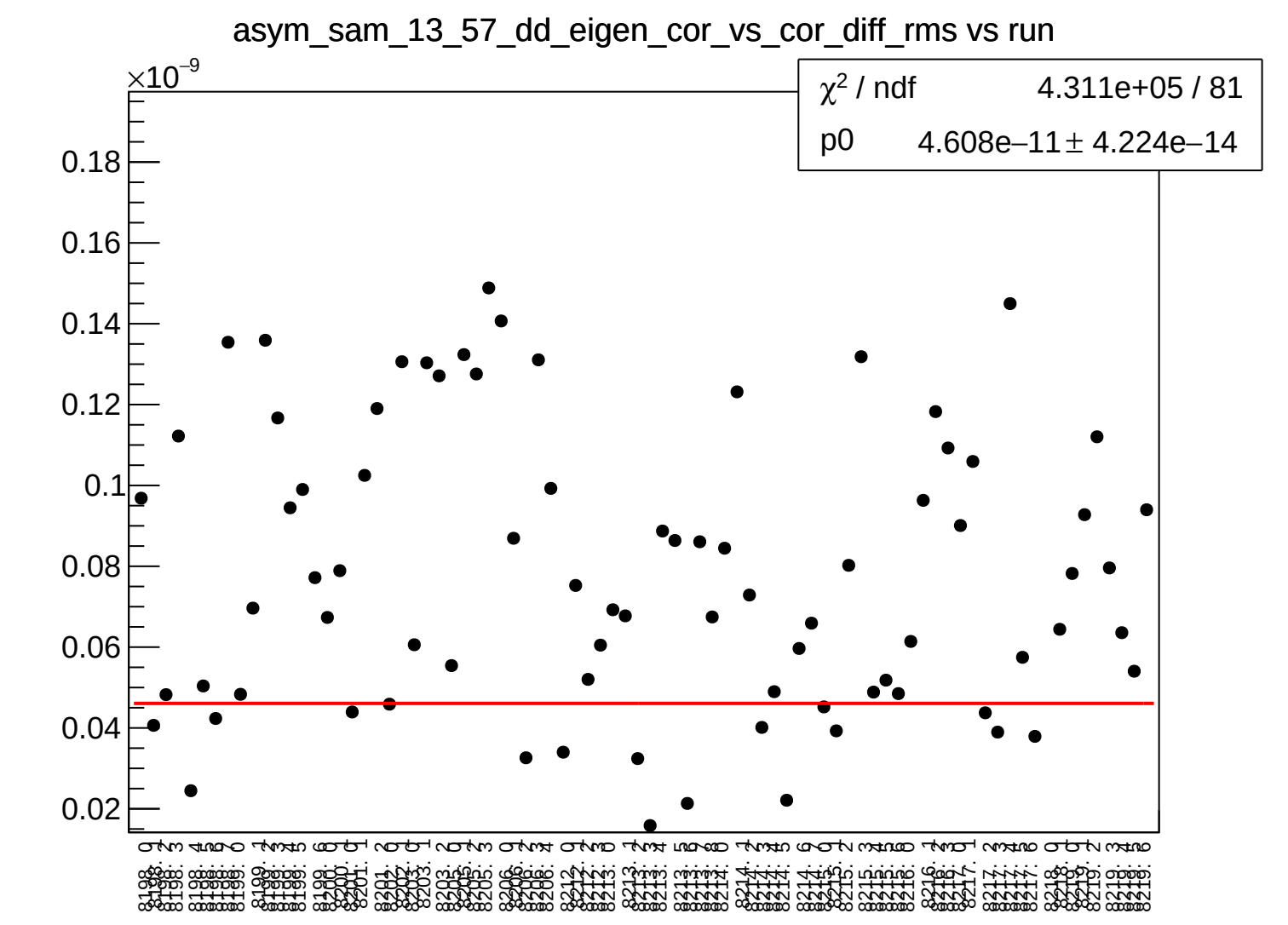

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.031e+04 / 81
p0 26.26 ± 0.02088
70
60
50
40
30
20

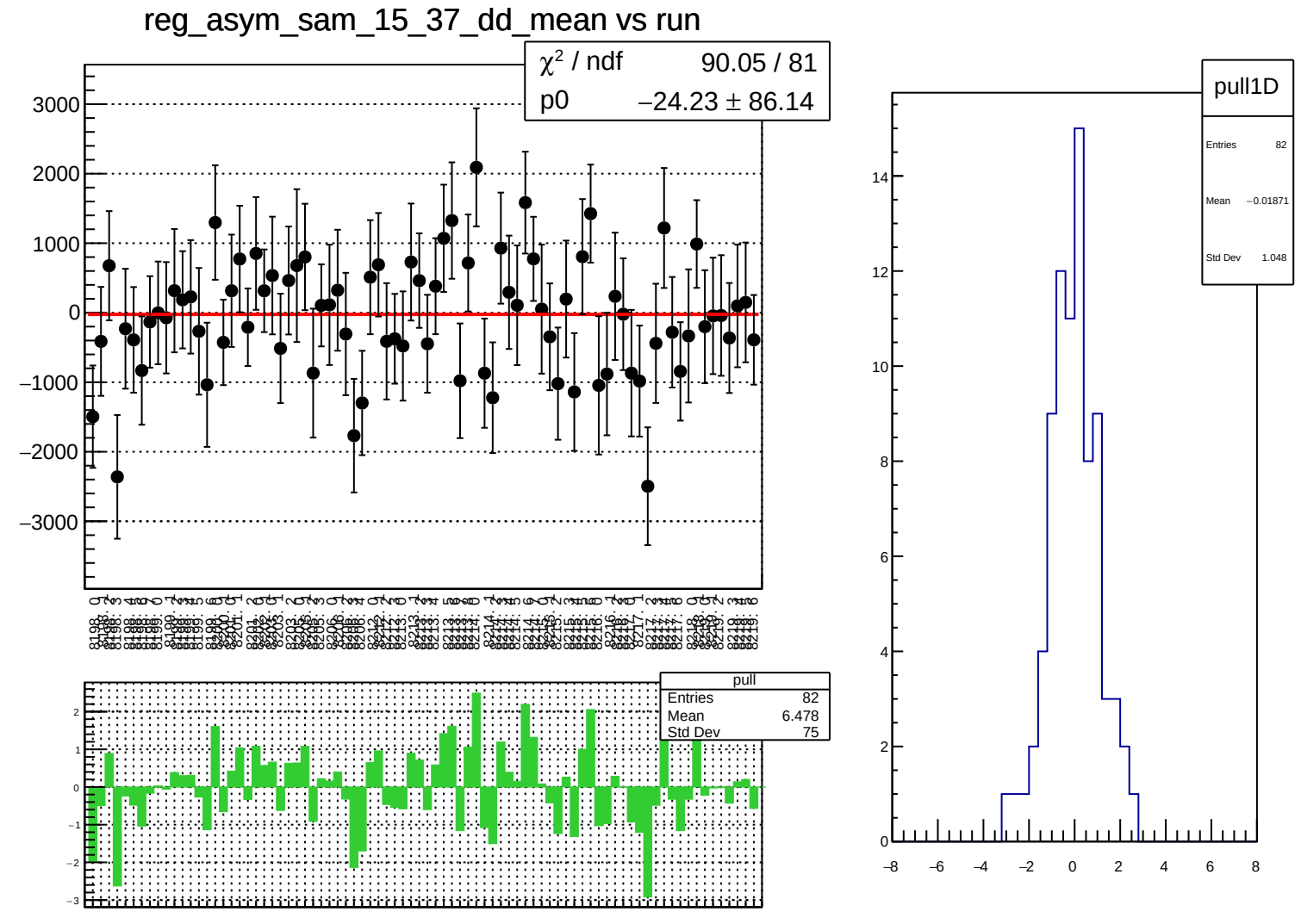

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.05 / 81
p0 0.05666 ± 0.02953
pull
Entries 82
Mean −38.09
Std Dev 0
pull1D
Entries 82
Mean 0.01598
Std Dev 0.834

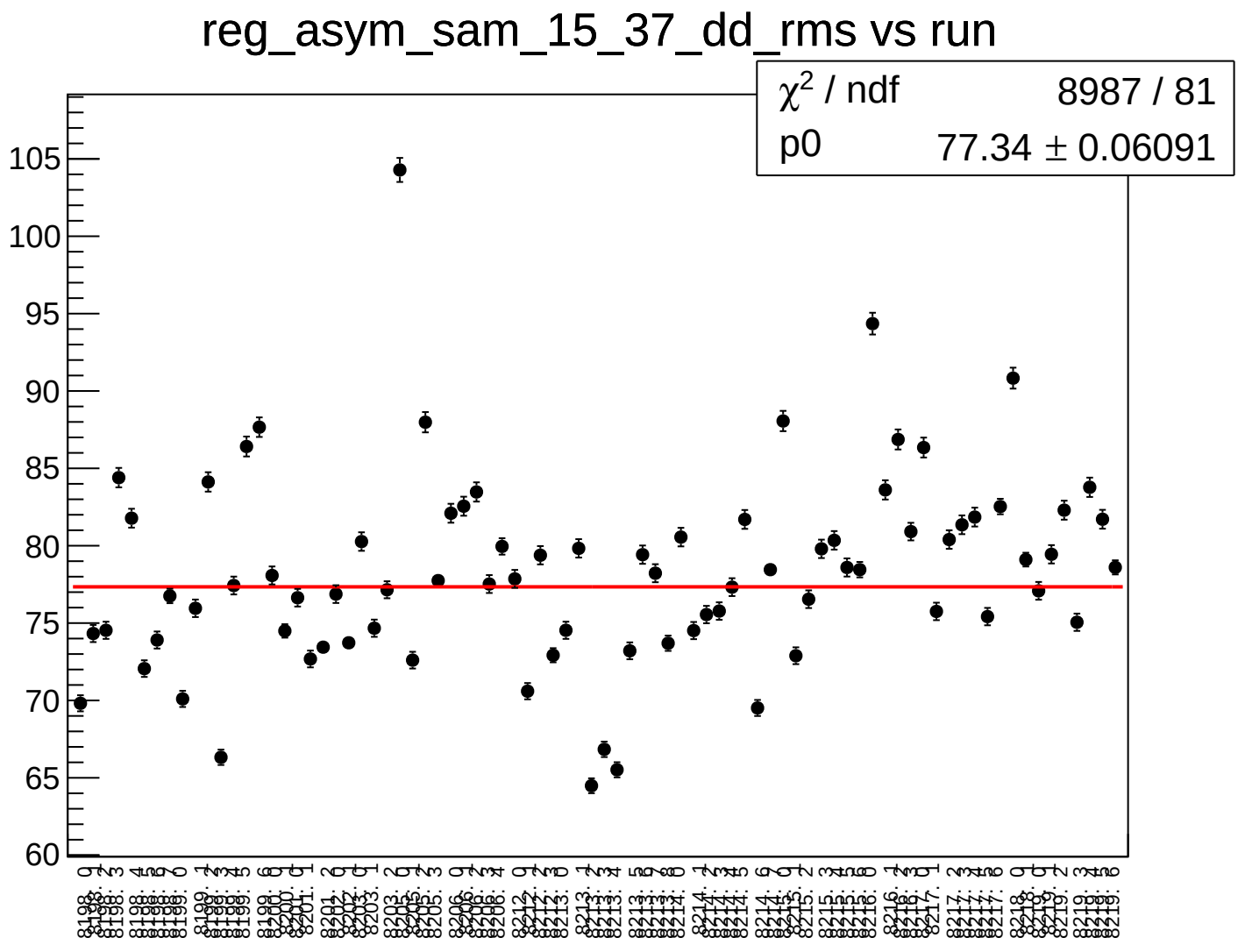

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.031e+04 / 81
p0 26.26 ± 0.02088
70
60
50
40
30
20

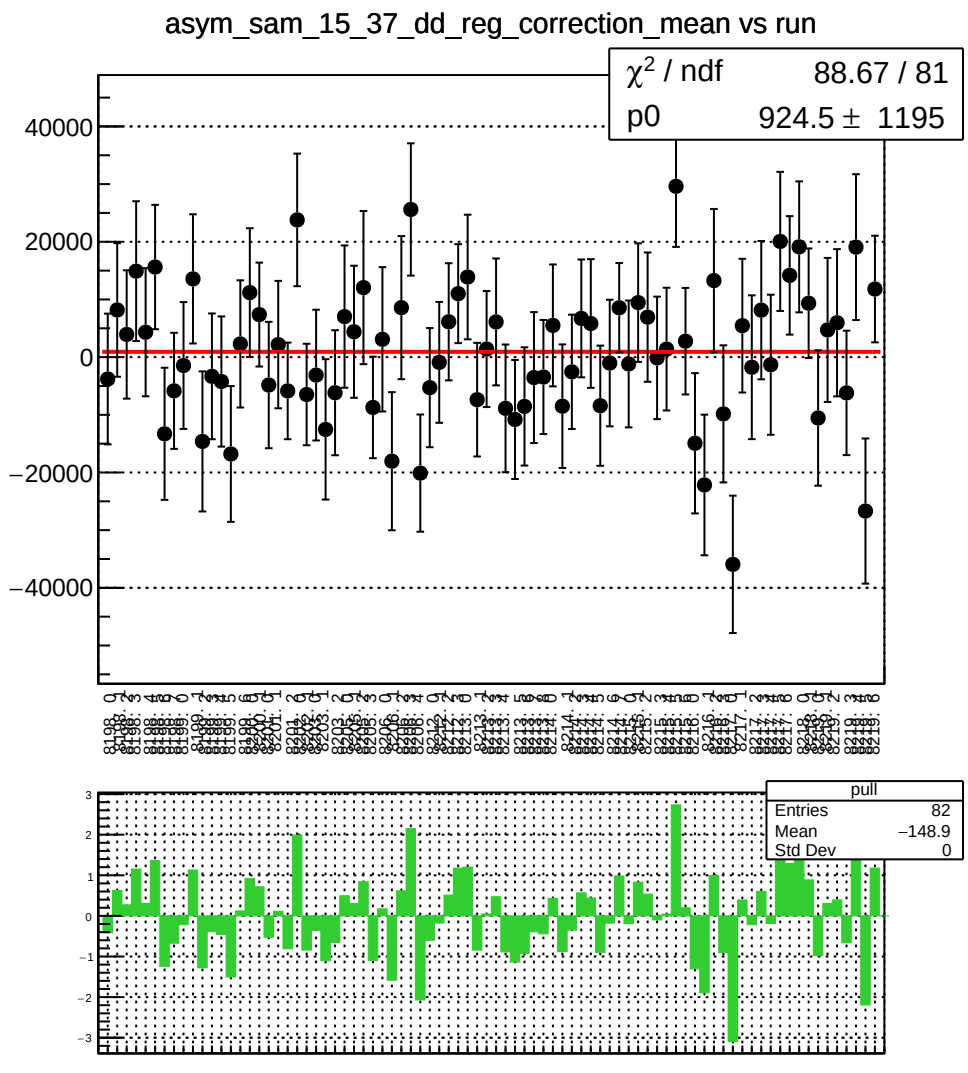

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.68 / 81
p0 −6.899e−14 ± 5.973e−14
pull
Entries 82
Mean 233
Std Dev 0

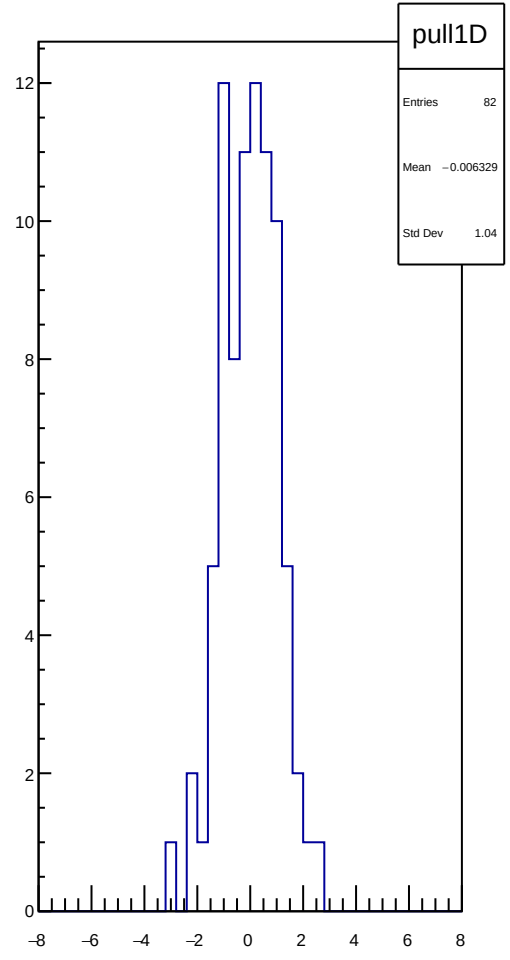

pull1D
Entries 82
Mean −0.01124
Std Dev 1.016

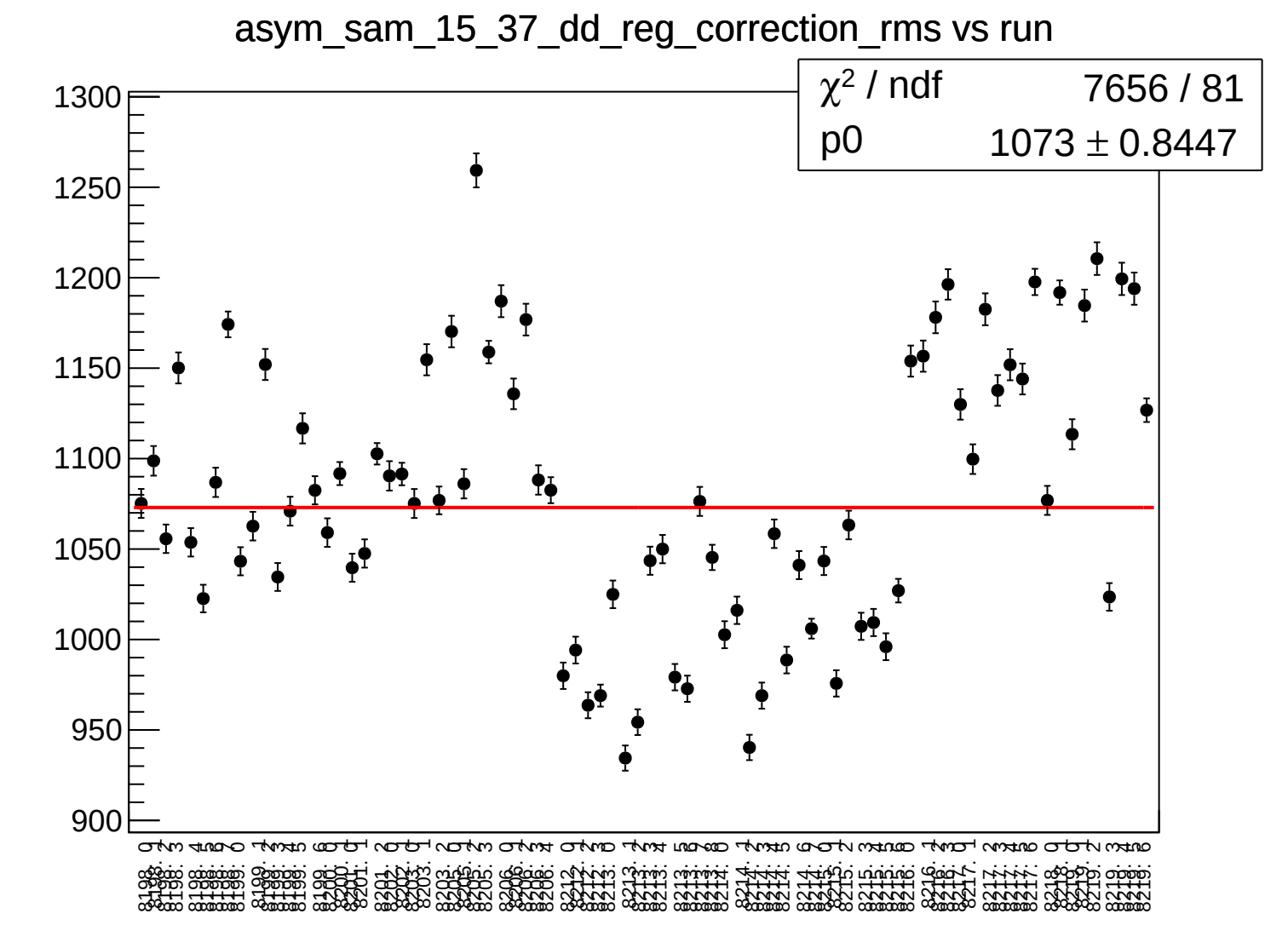

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.311e+05 / 81
p0 4.608e−11 ± 4.224e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

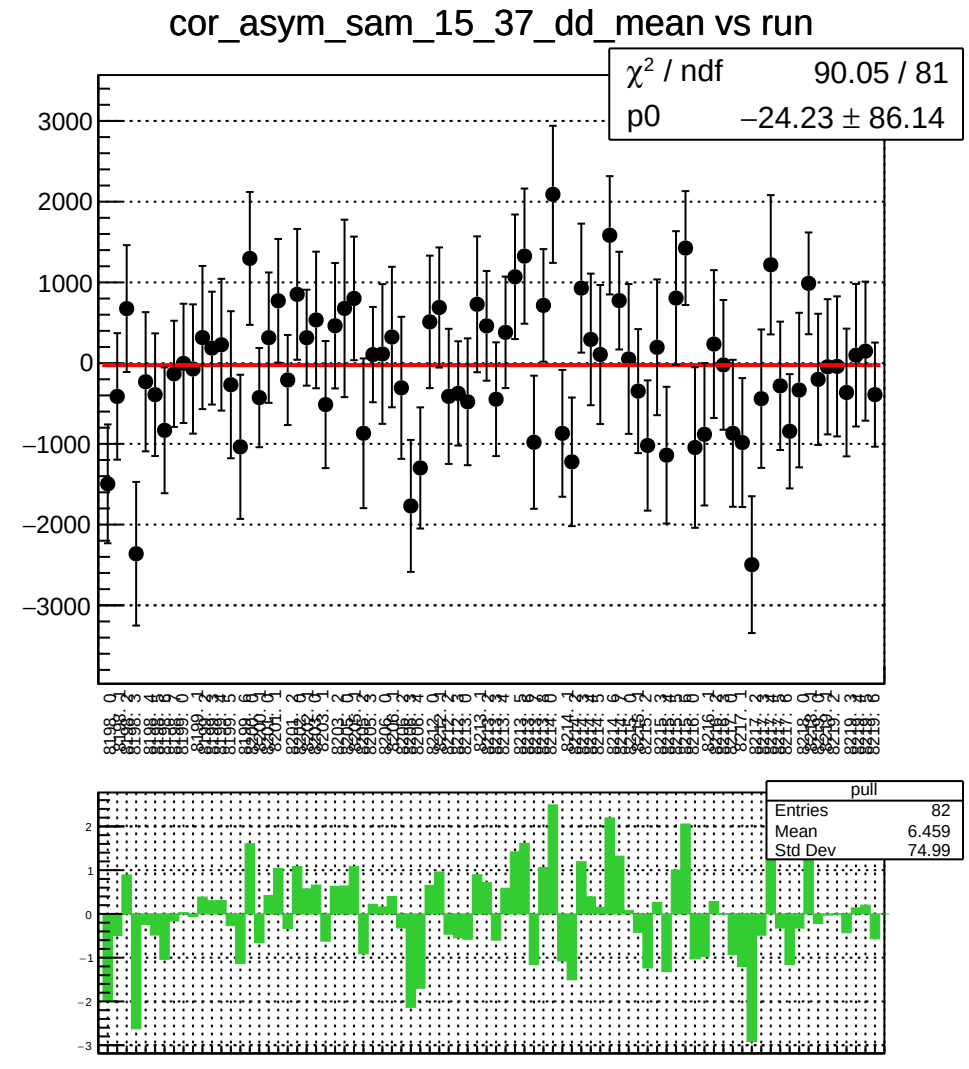

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 90.05 / 81
p0 −24.23 ± 86.14
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean 6.478
Std Dev 75
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.01871
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

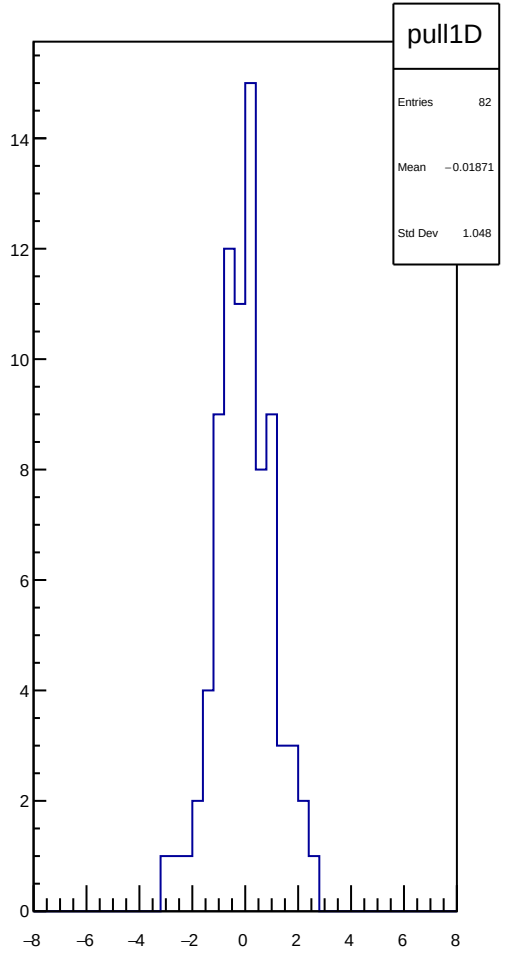

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 8987 / 81
p0 77.34 ± 0.06091
105
100
95
90
85
80
75
70
65
60

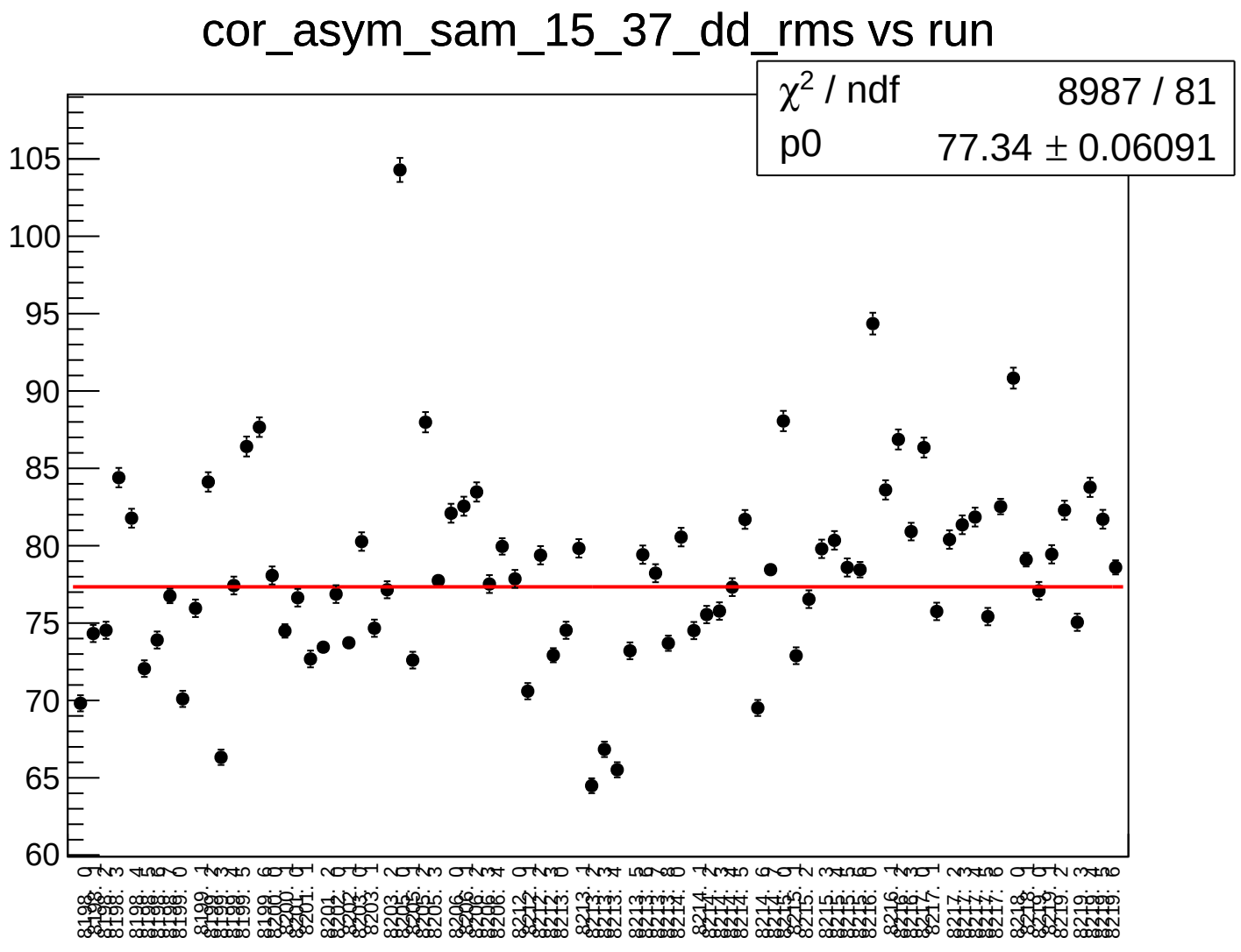

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 88.67 / 81
p0 924.5 ± 1195
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −148.9
Std Dev 0
3
2
1
0
−1
−2
−3

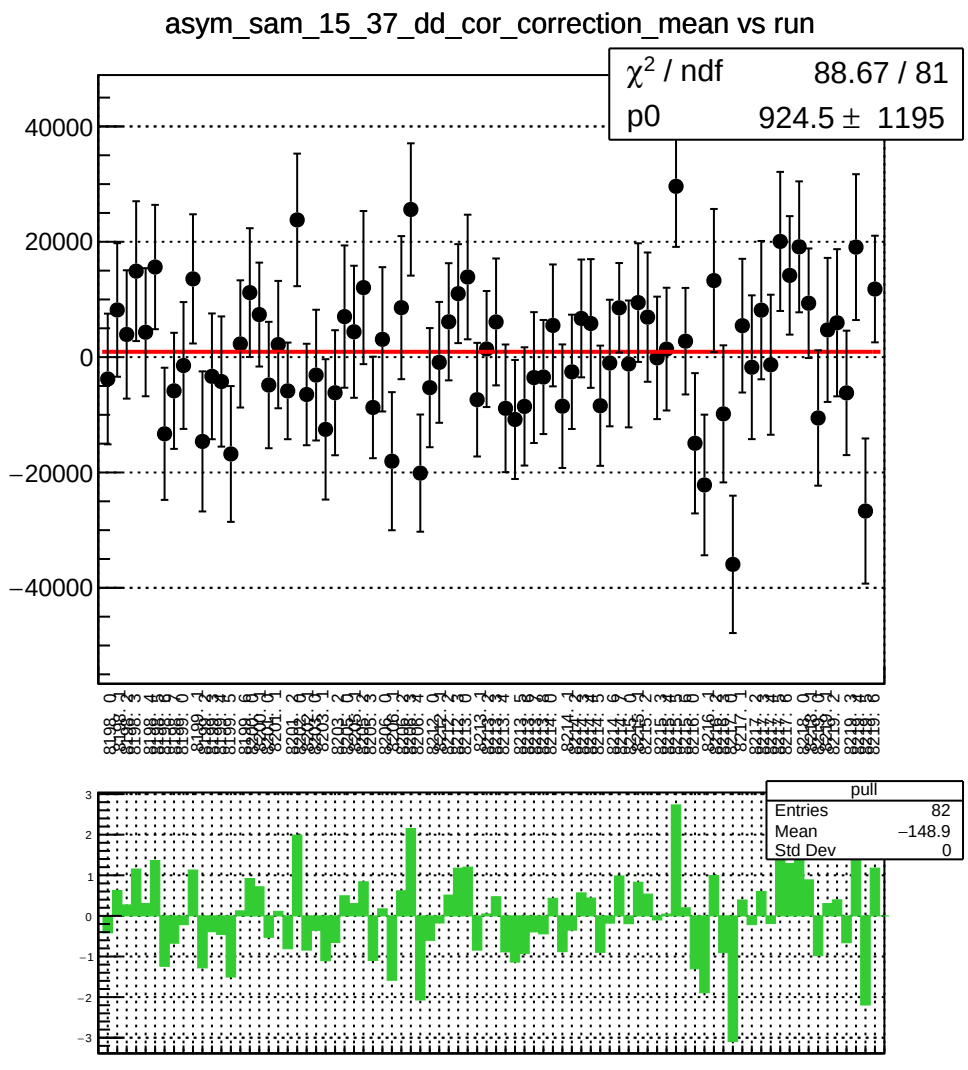

pull1D
Entries 82
Mean −0.006329
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

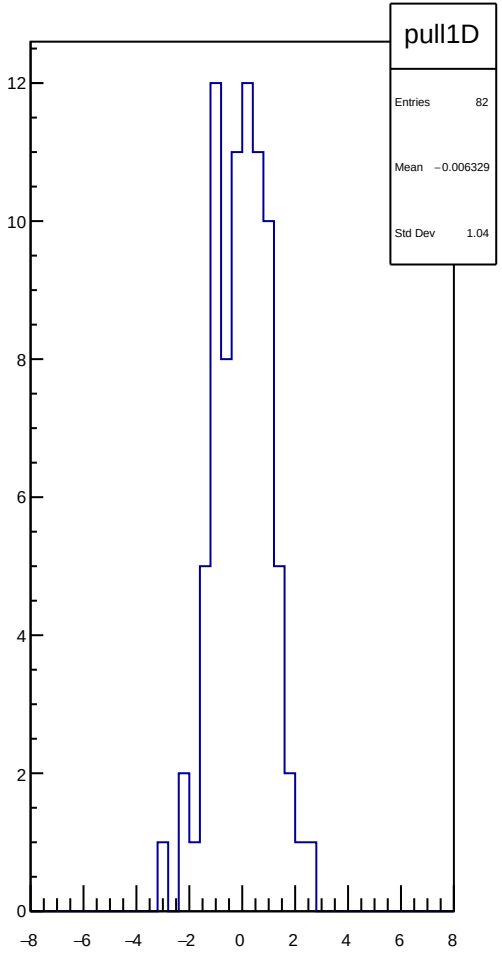

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 7656 / 81
p0 1073 ± 0.8447
1300
1250
1200
1150
1100
1050
1000
950
900

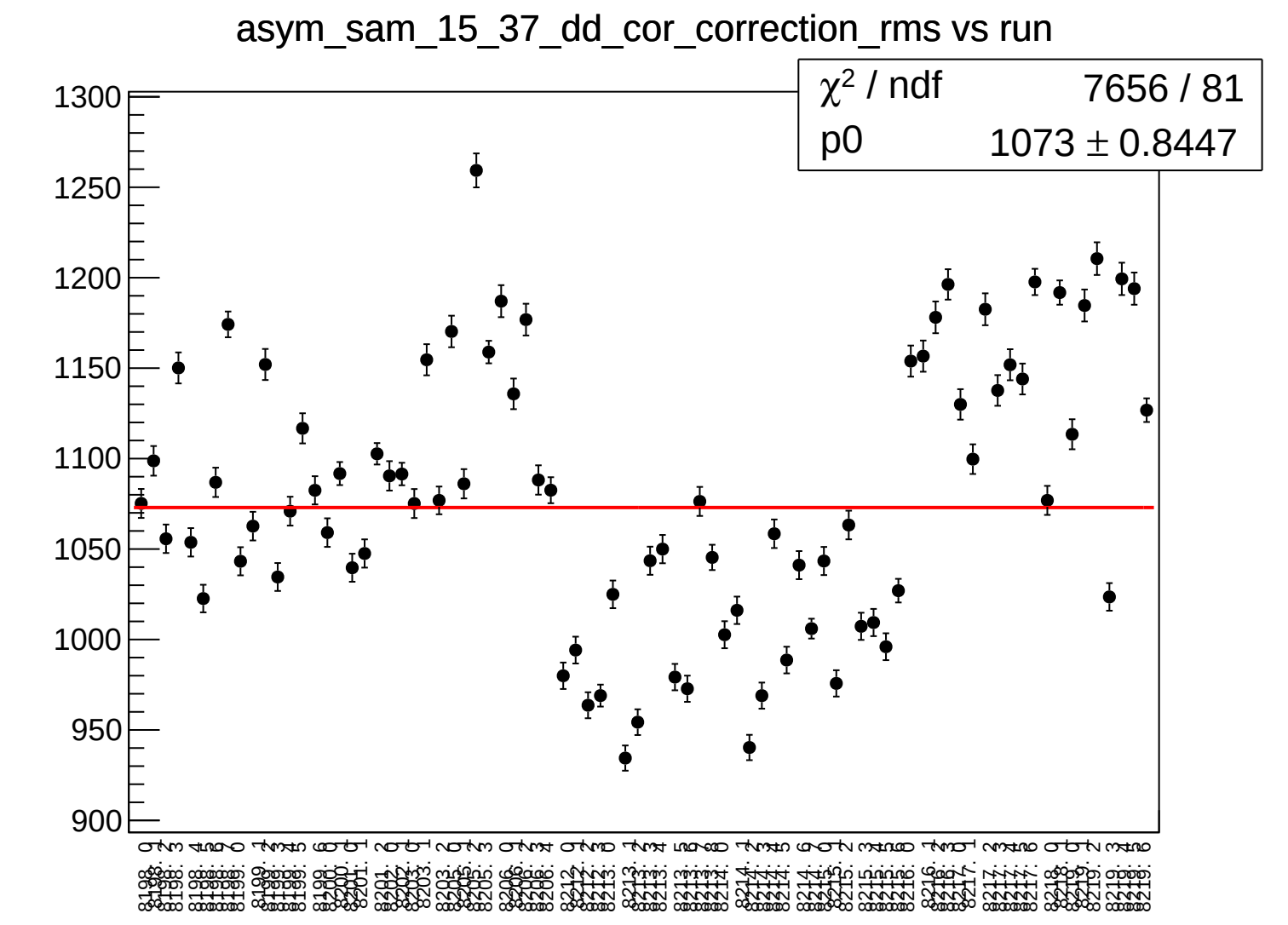

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 90.05 / 81
p0 −24.23 ± 86.14
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean 6.459
Std Dev 74.99
2
1
0
−1
−2
−3

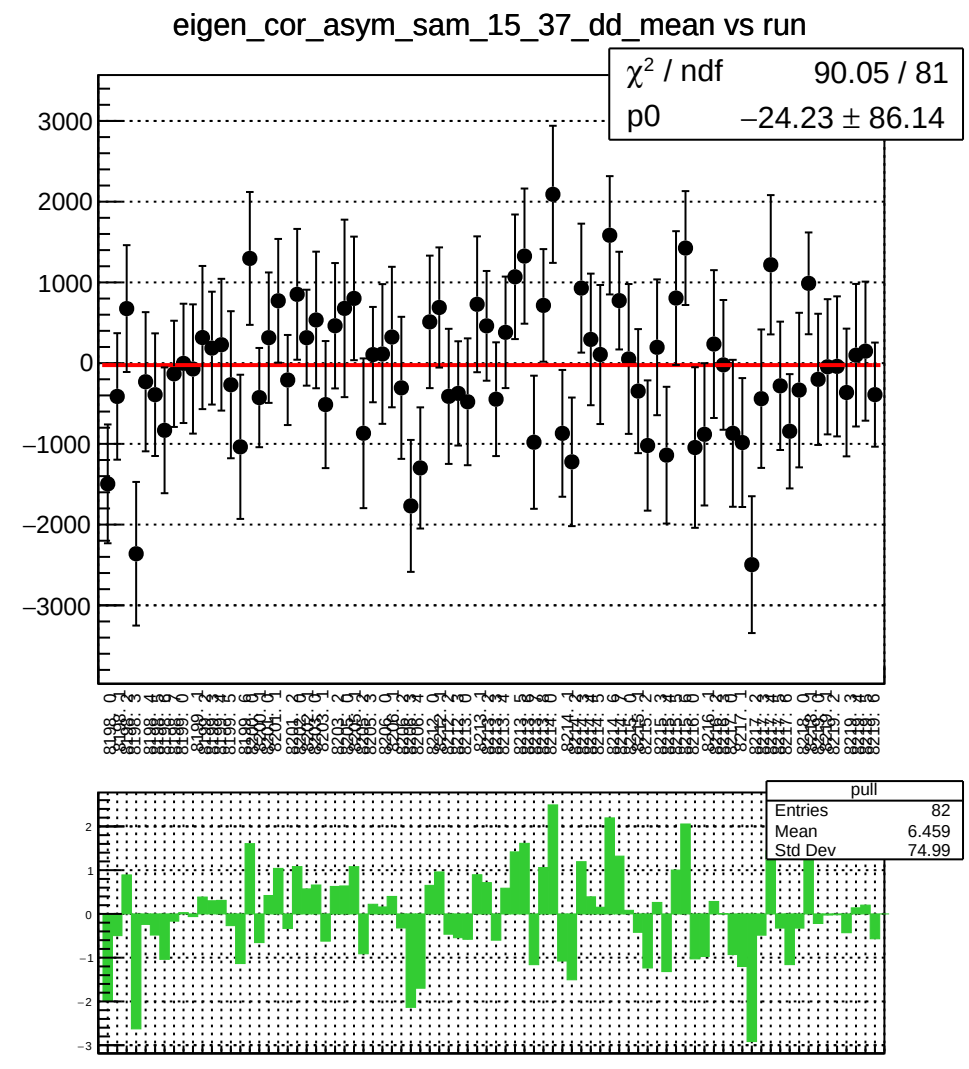

pull1D
Entries 82
Mean −0.01871
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

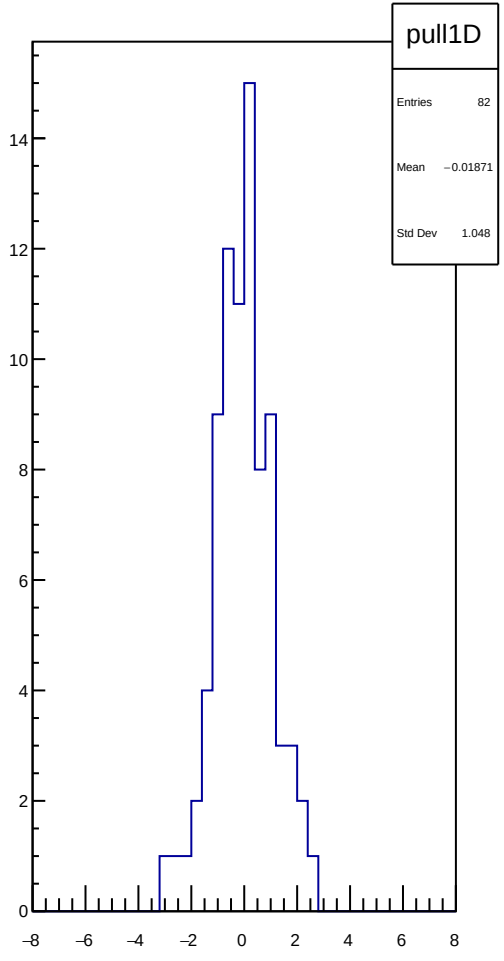

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 8987 / 81
p0 77.34 ± 0.06091
105
100
95
90
85
80
75
70
65
60

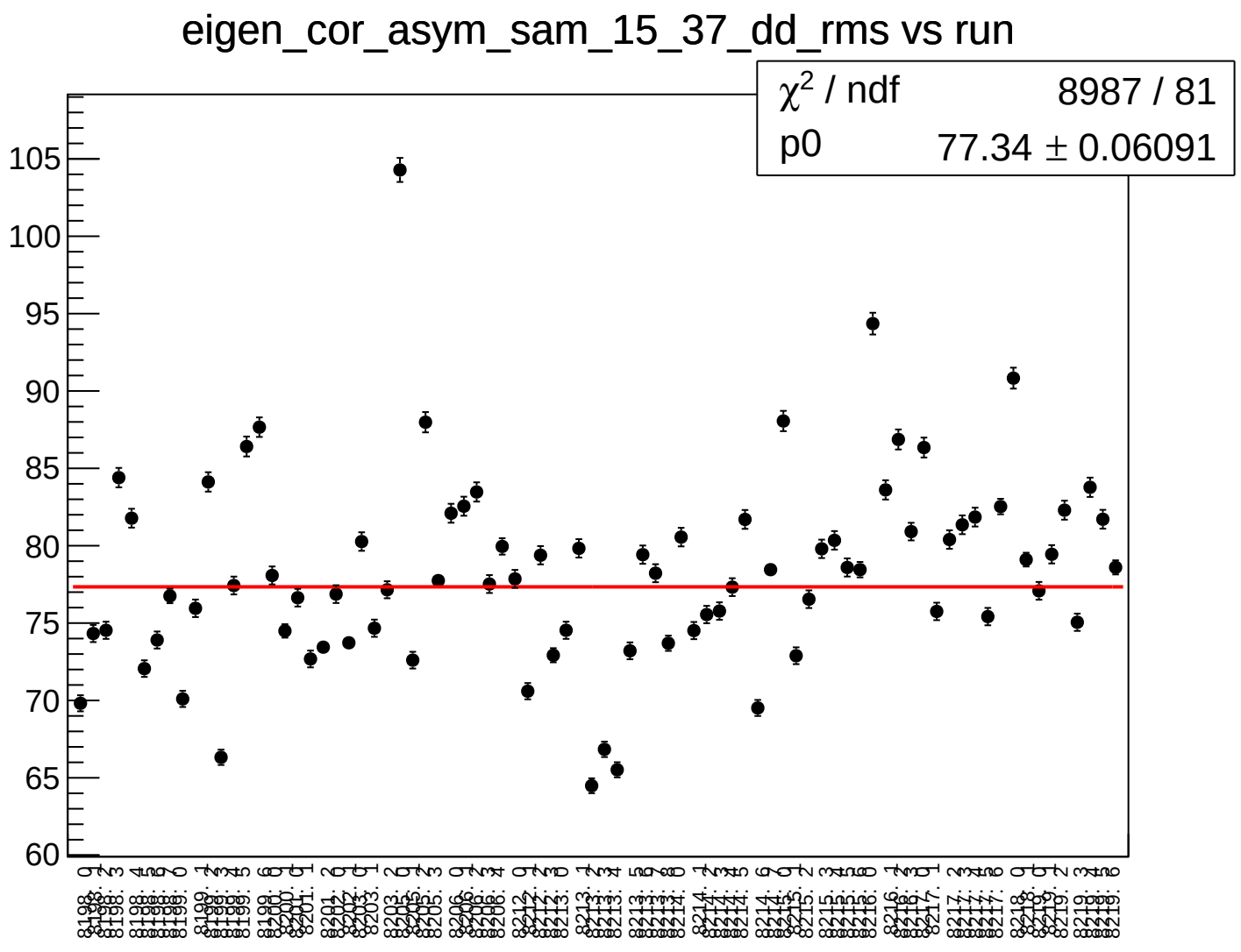

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 88.67 / 81
p0 924.5 ± 1195
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −148.9
Std Dev 0
3
2
1
0
−1
−2
−3

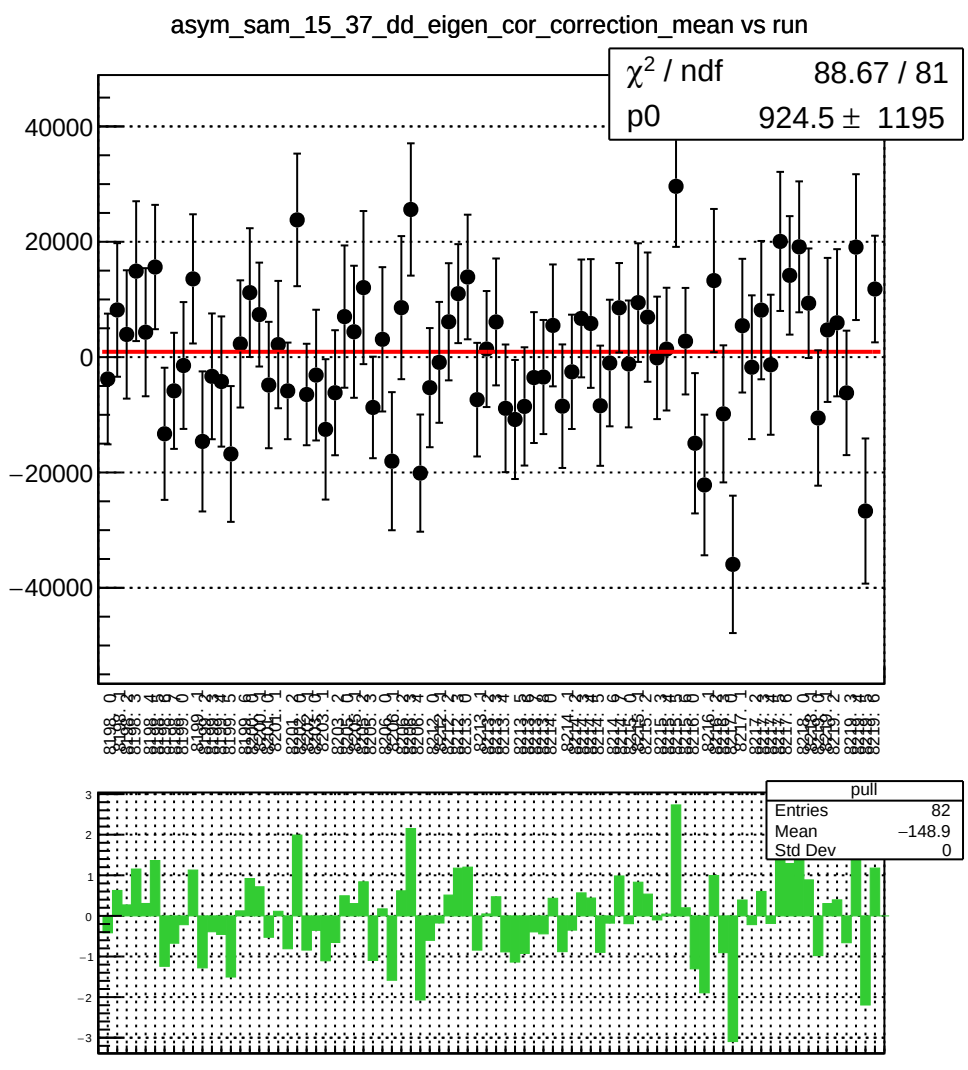

pull1D
Entries 82
Mean −0.006329
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

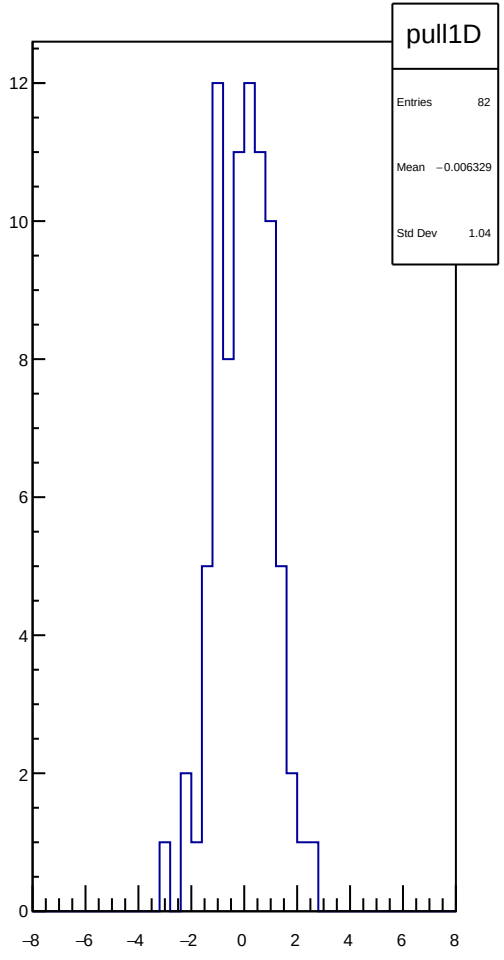

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 7656 / 81
p0 1073 ± 0.8447
1300
1250
1200
1150
1100
1050
1000
950
900

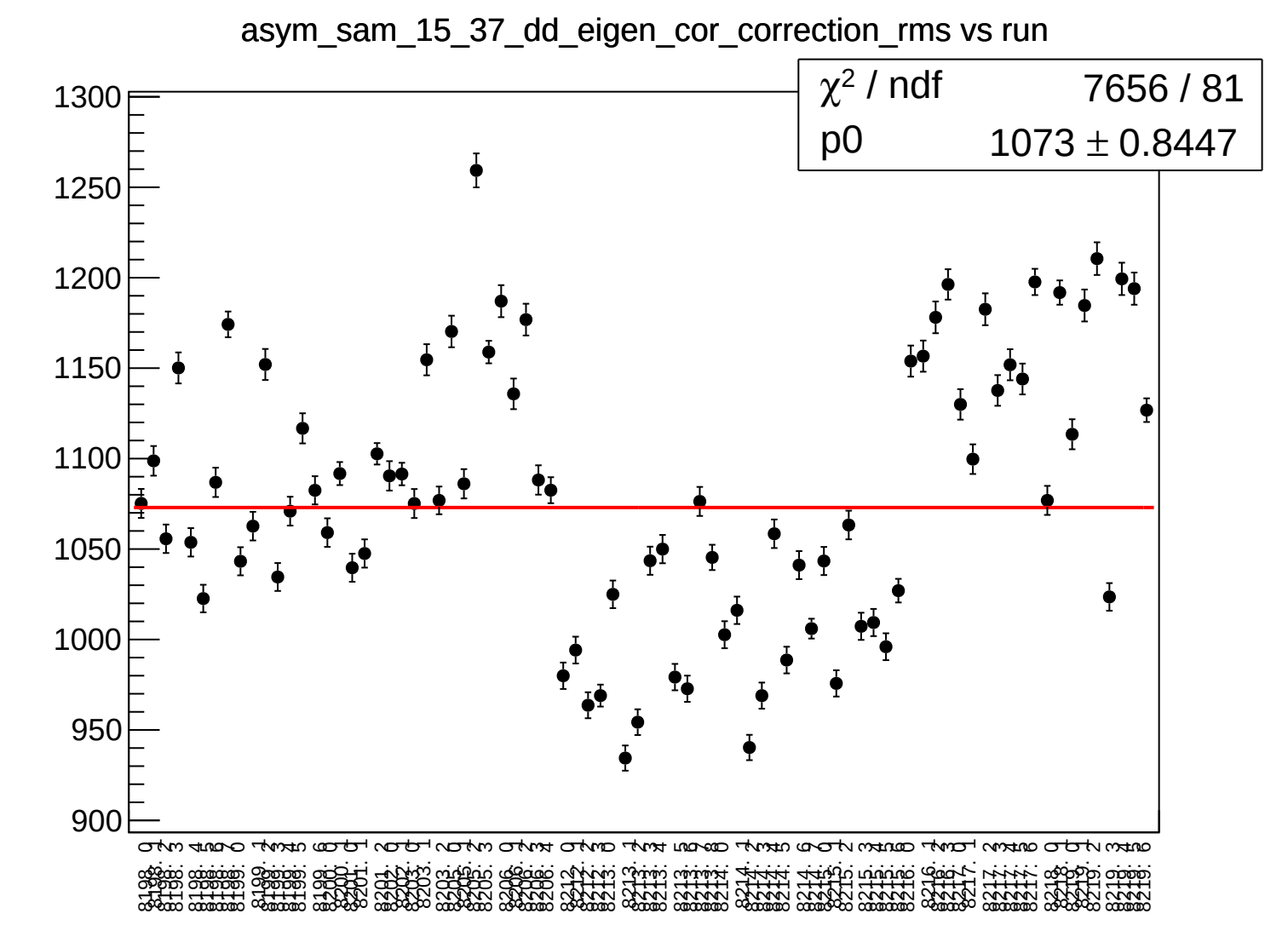

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 90.05 / 81
p0 −24.23 ± 86.14
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean 6.459
Std Dev 74.99
2
1
0
−1
−2
−3

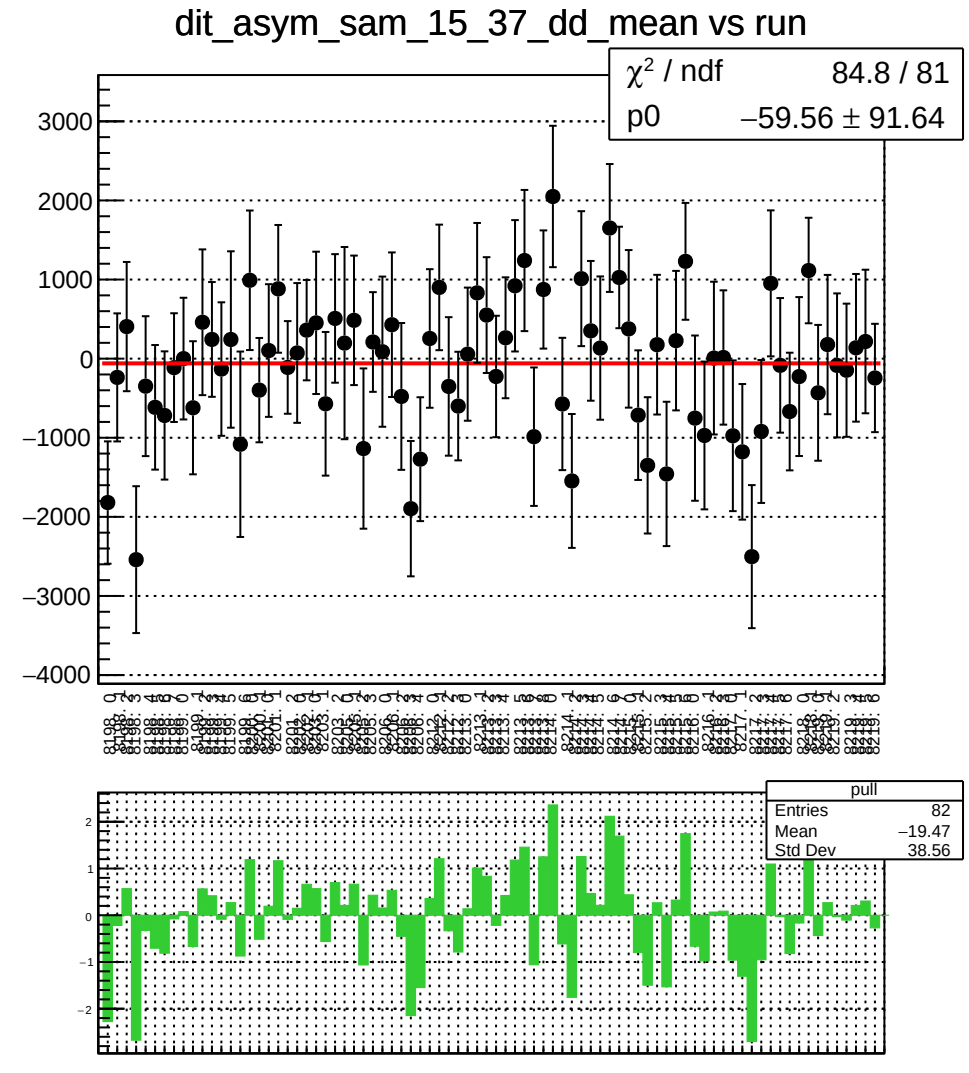

pull1D
Entries 82
Mean −0.01871
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

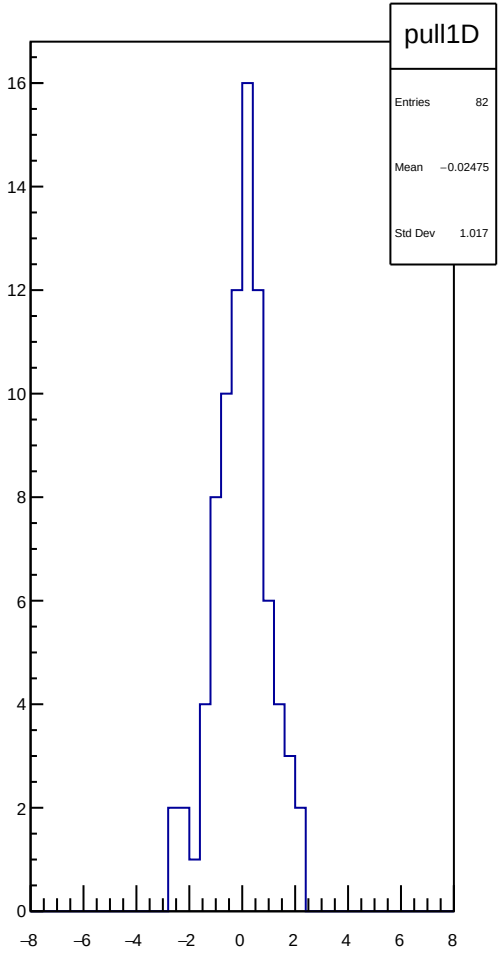

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 8987 / 81
p0 77.34 ± 0.06091
105
100
95
90
85
80
75
70
65
60

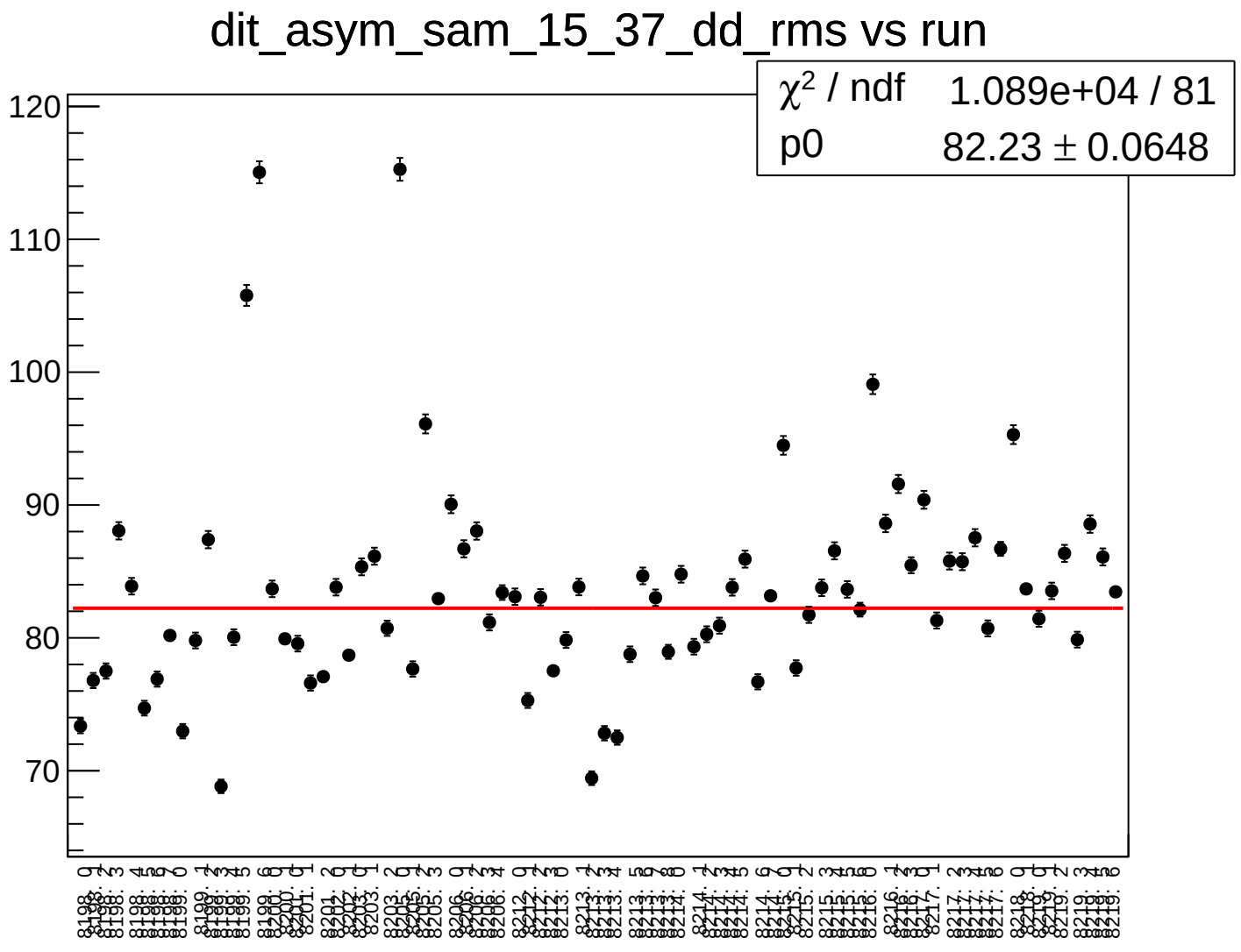

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.67 / 81
p0 924.5 ± 1195
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −148.9
Std Dev 0
3
2
1
0
−1
−2
−3

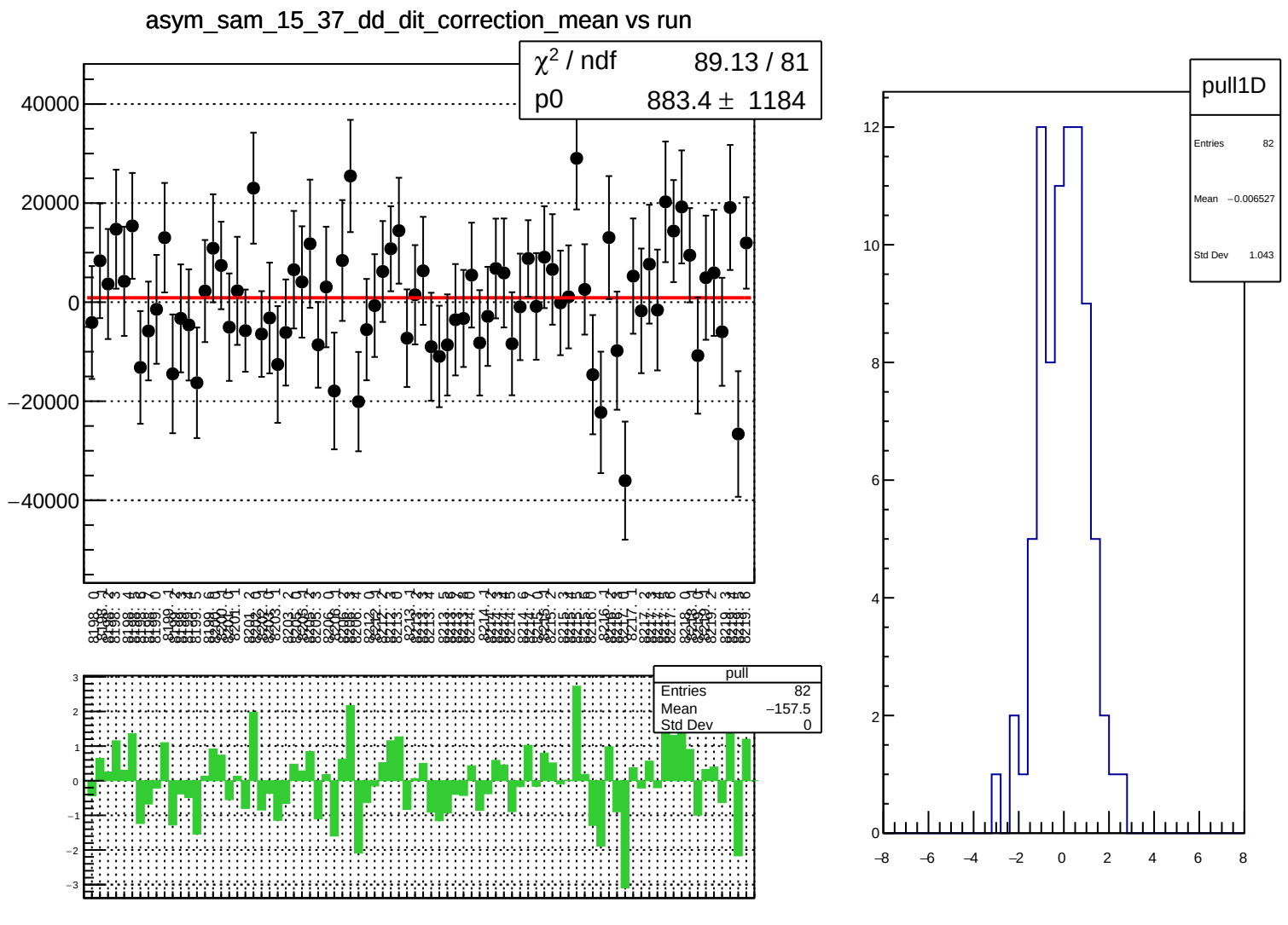

pull1D
Entries 82
Mean −0.006329
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

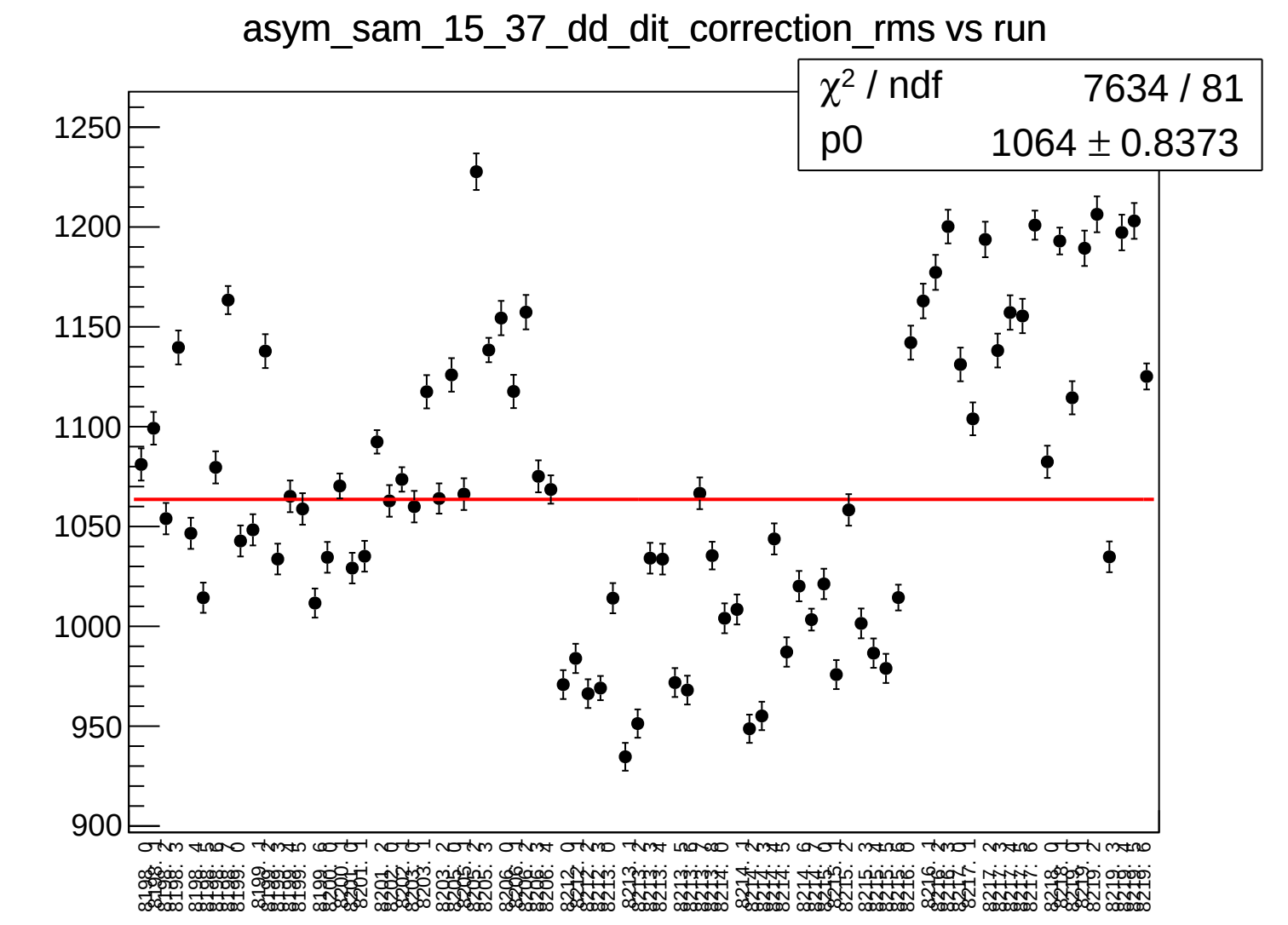

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 7656 / 81
p0 1073 ± 0.8447
1300
1250
1200
1150
1100
1050
1000
950
900

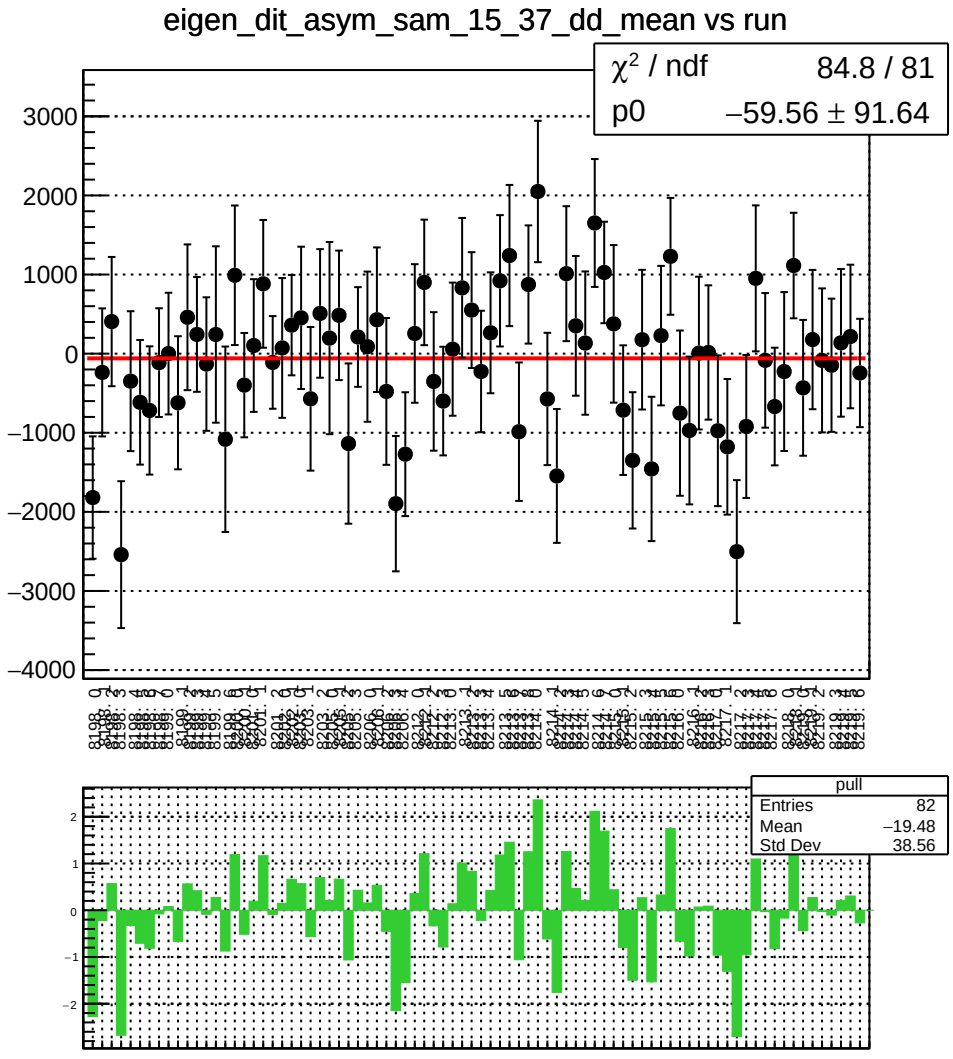

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 84.8 / 81
p0 −59.56 ± 91.64
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 82
Mean −19.47
Std Dev 38.56
2
1
0
−1
−2

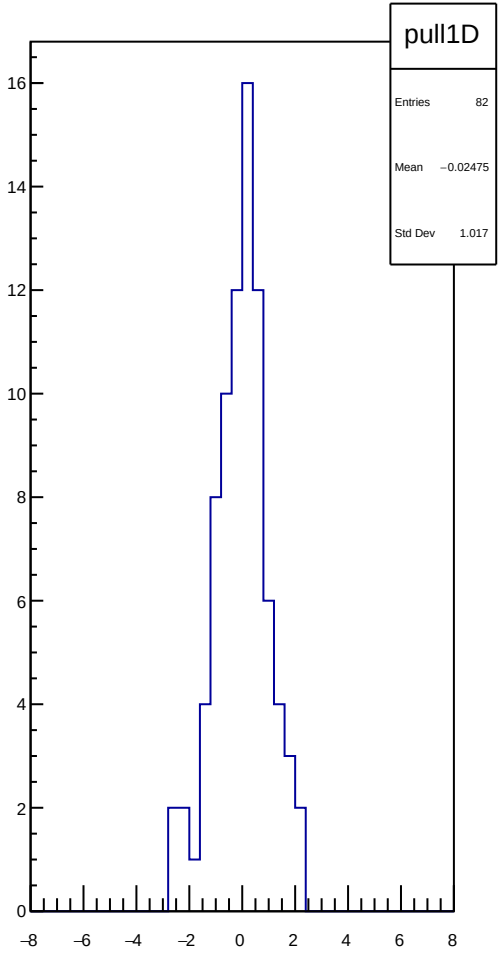

pull1D
Entries 82
Mean −0.02475
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

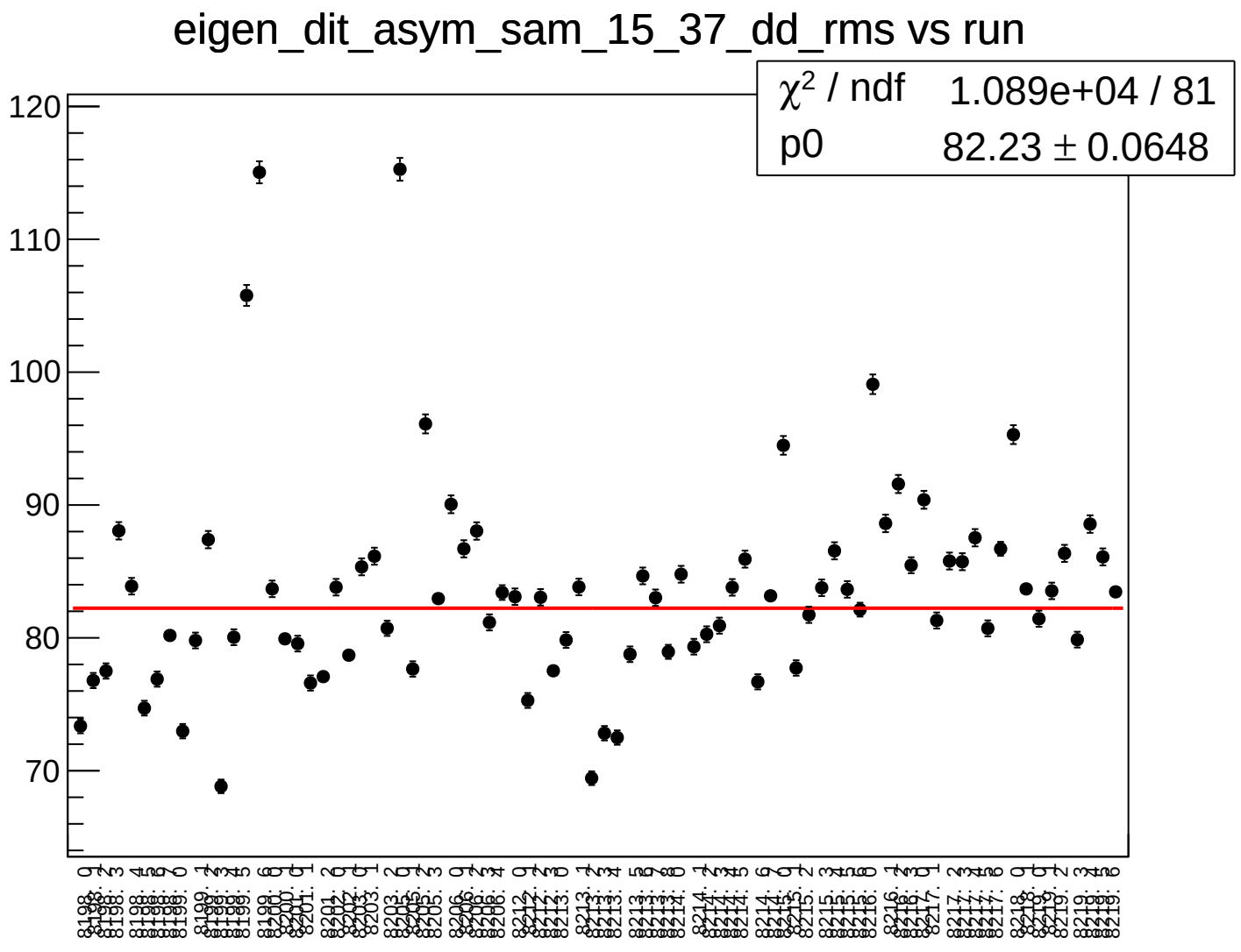

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.089e+04 / 81
p0 82.23 ± 0.0648
120
110
100
90
80
70

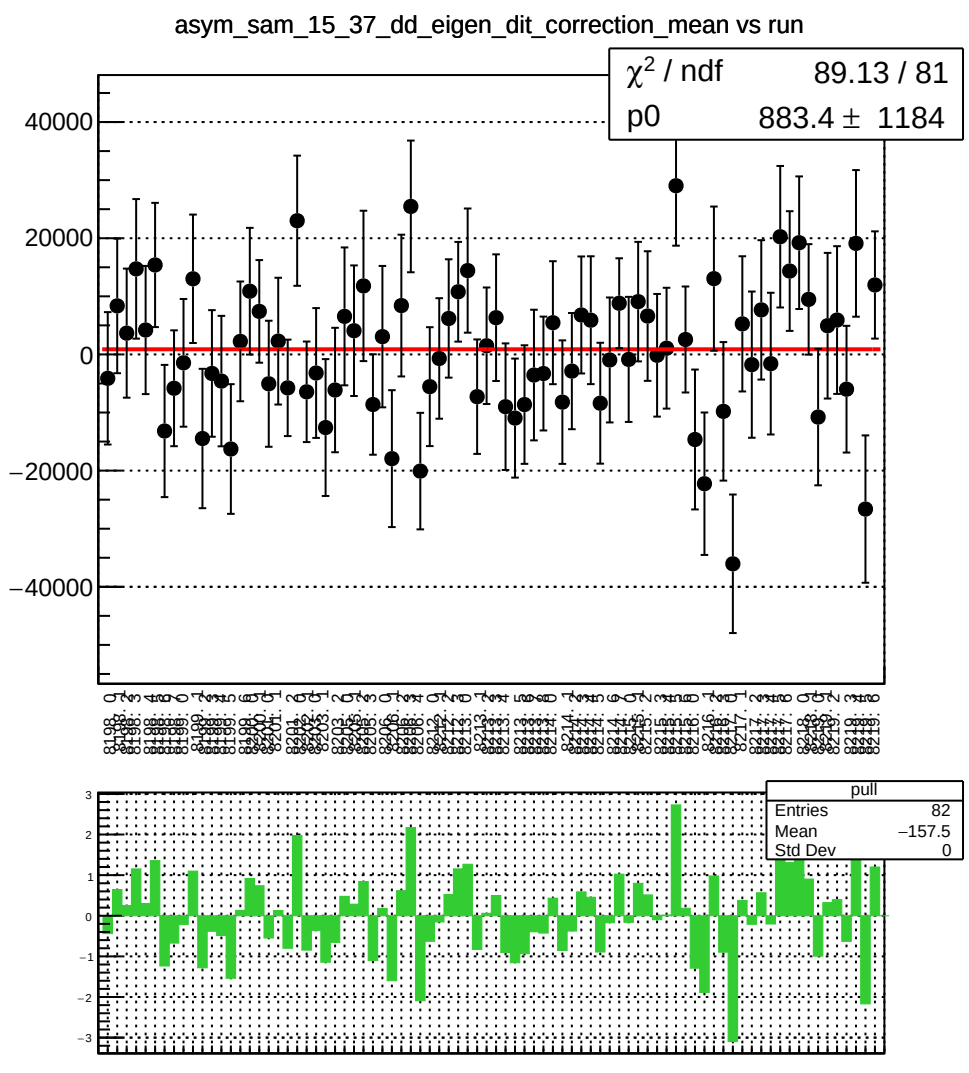

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 89.13 / 81
p0 883.4 ± 1184
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −157.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.006527
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

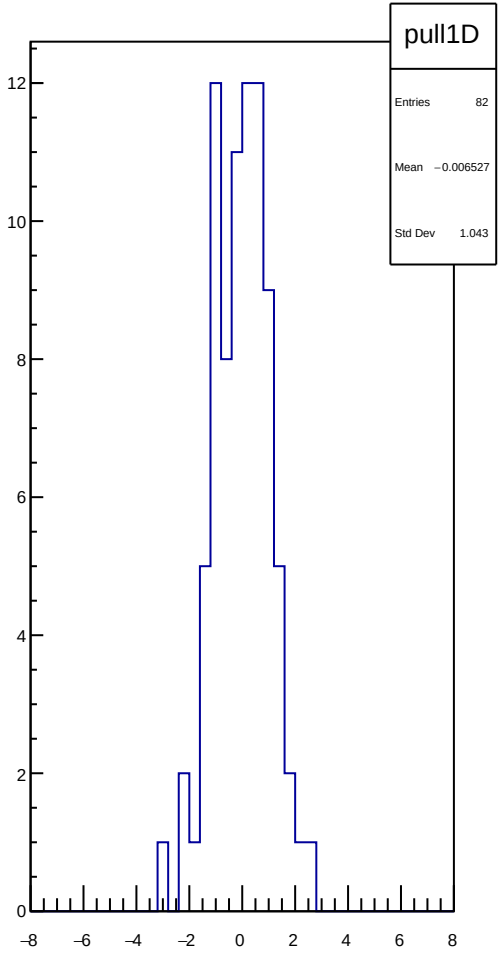

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 7634 / 81
p0 1064 ± 0.8373
1250
1200
1150
1100
1050
1000
950
900

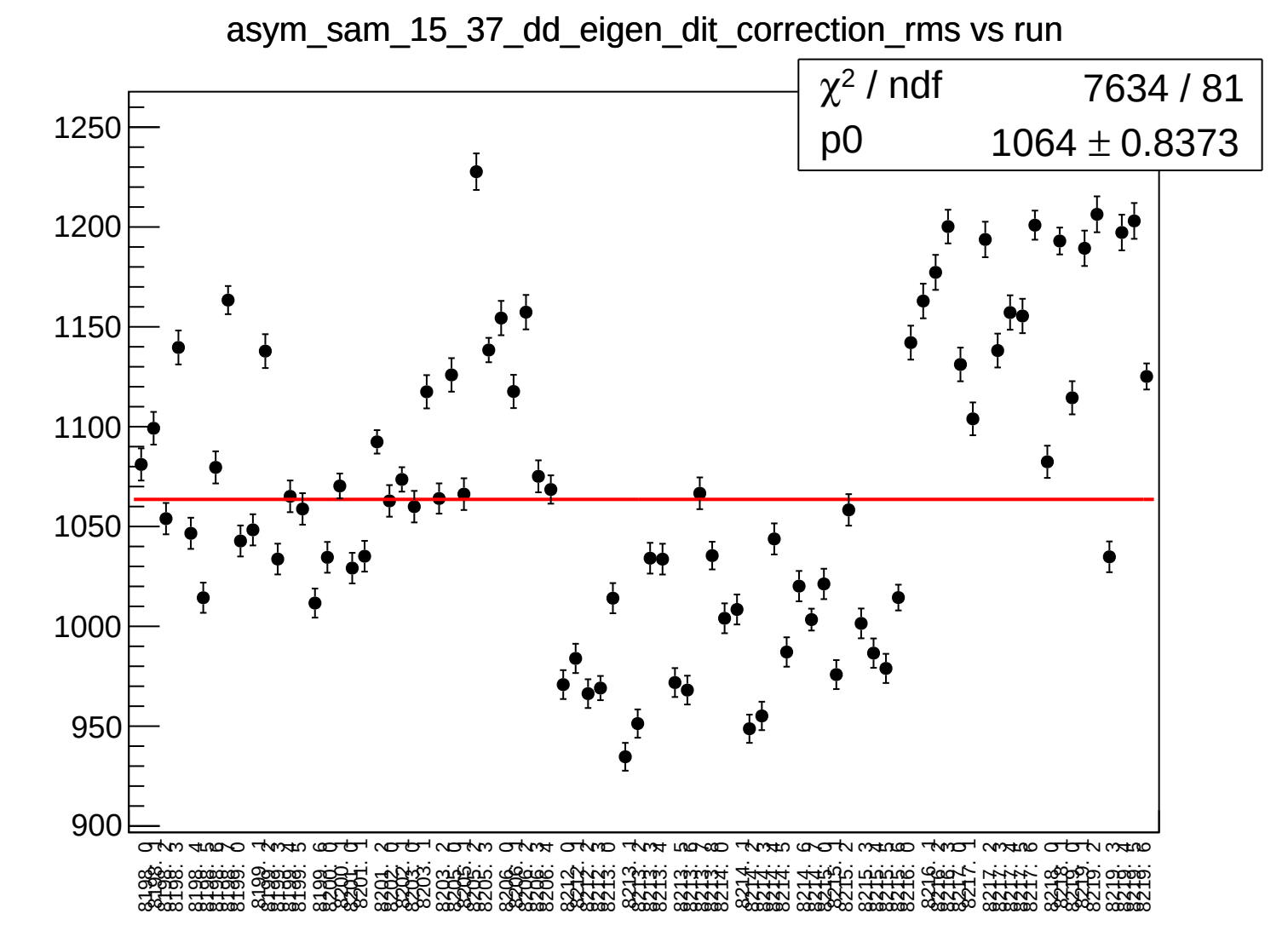

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 84.8 / 81
p0 −59.56 ± 91.64
pull
Entries 82
Mean −19.48
Std Dev 38.56

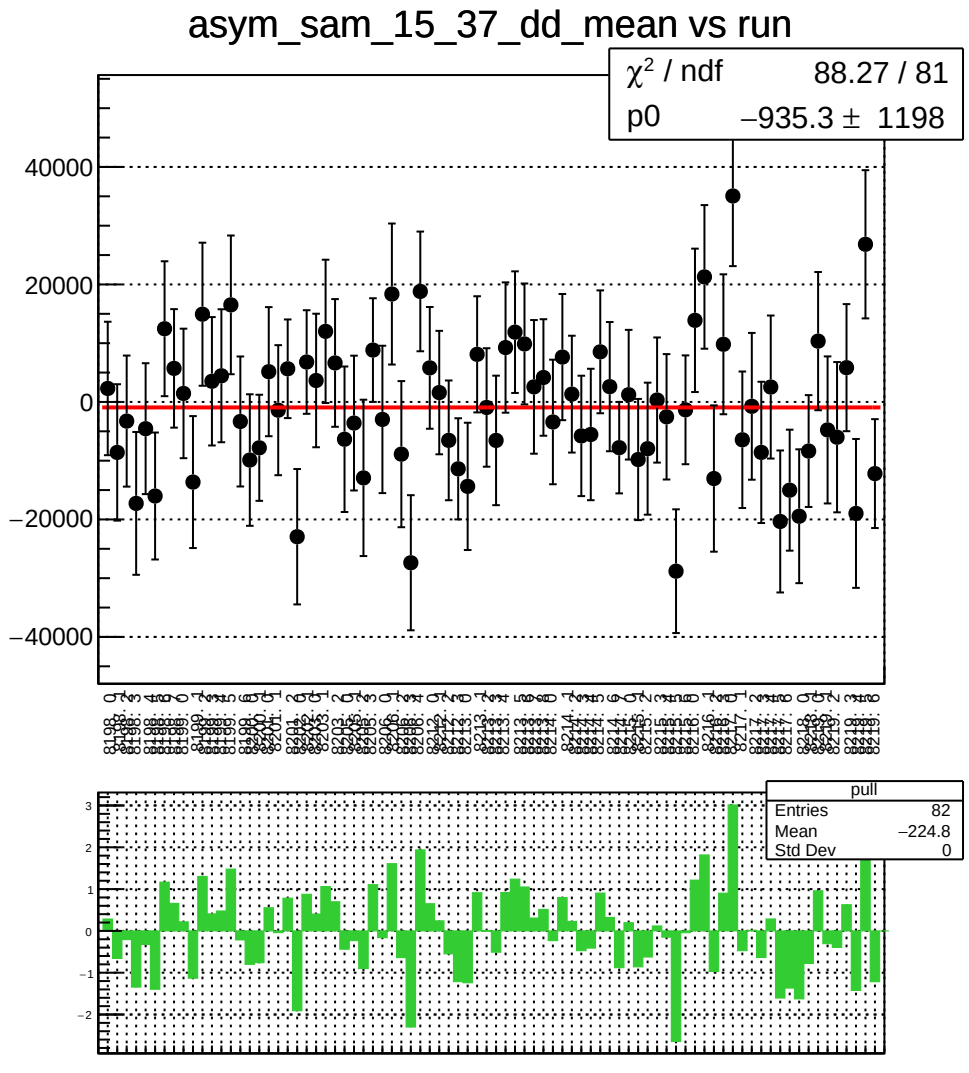

pull1D
Entries 82
Mean −0.02475
Std Dev 1.017

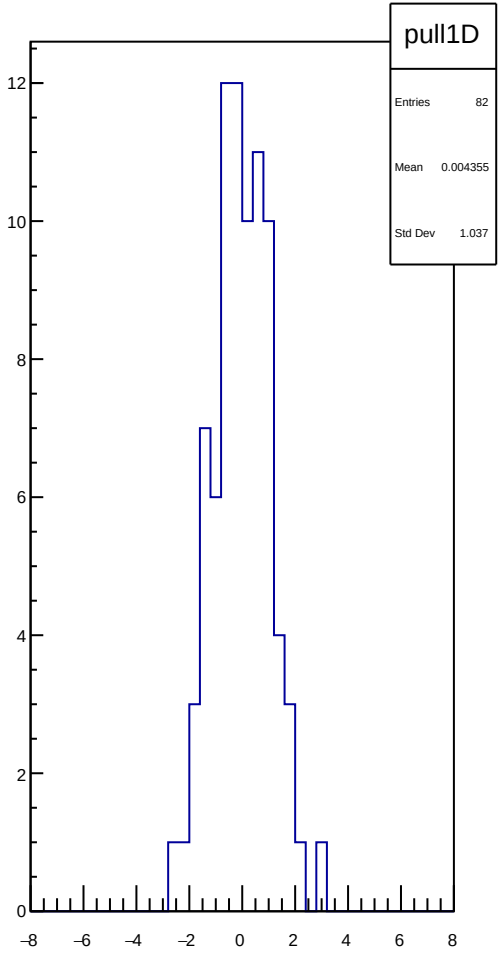

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.089e+04 / 81
p0 82.23 ± 0.0648
120
110
100
90
80
70

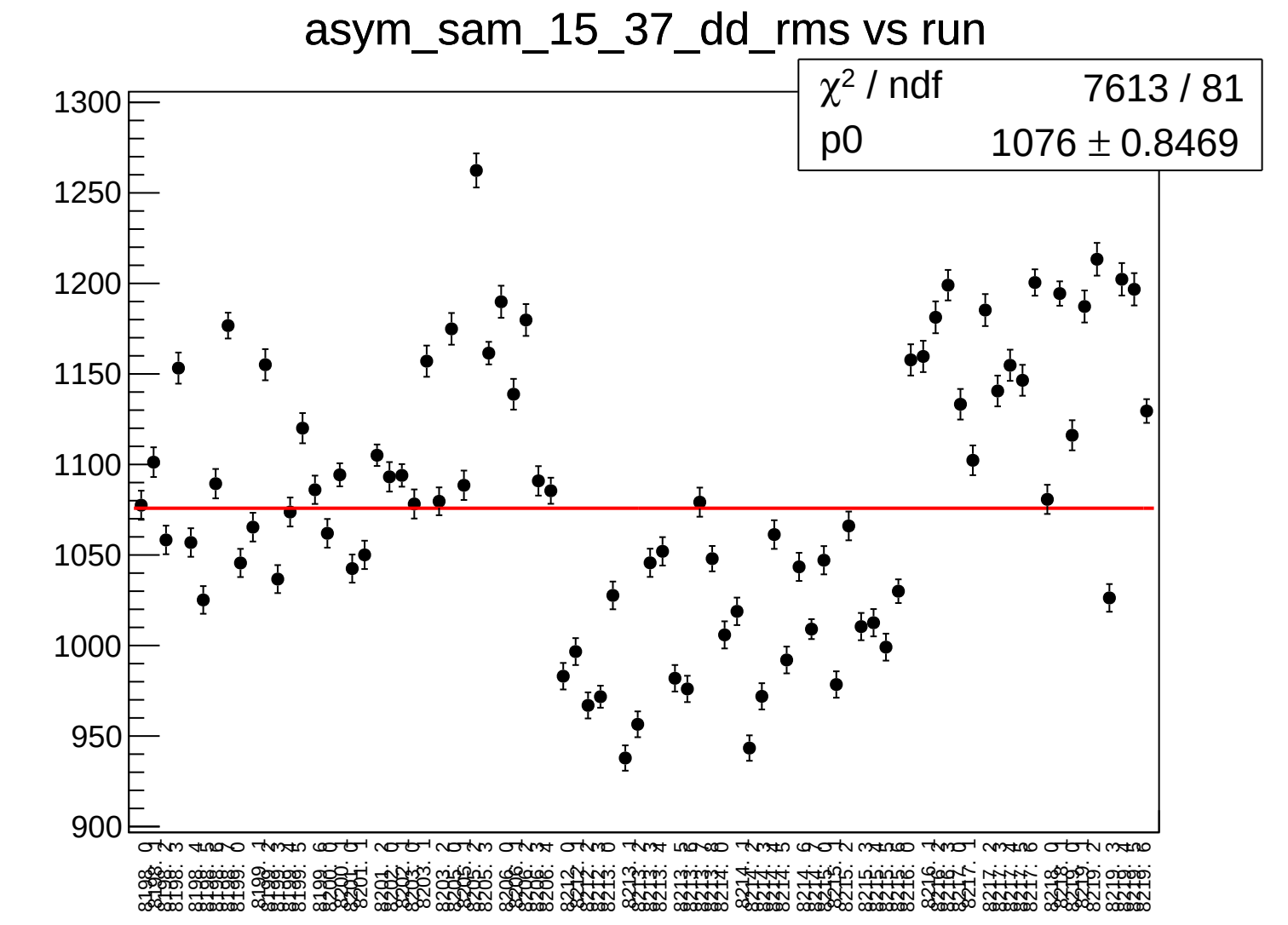

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.13 / 81
p0 883.4 ± 1184
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −157.5
Std Dev 0
3
2
1
0
−1
−2
−3

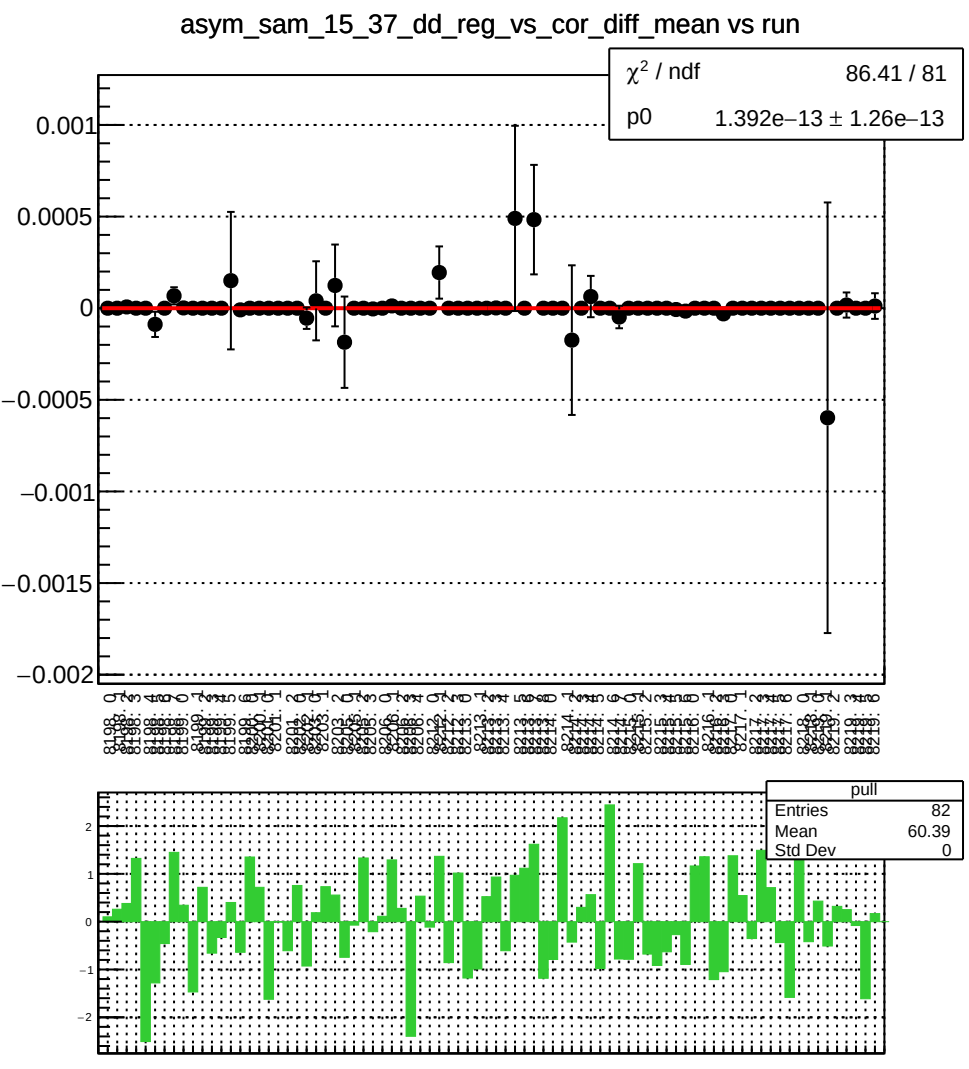

pull1D
Entries 82
Mean −0.006527
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

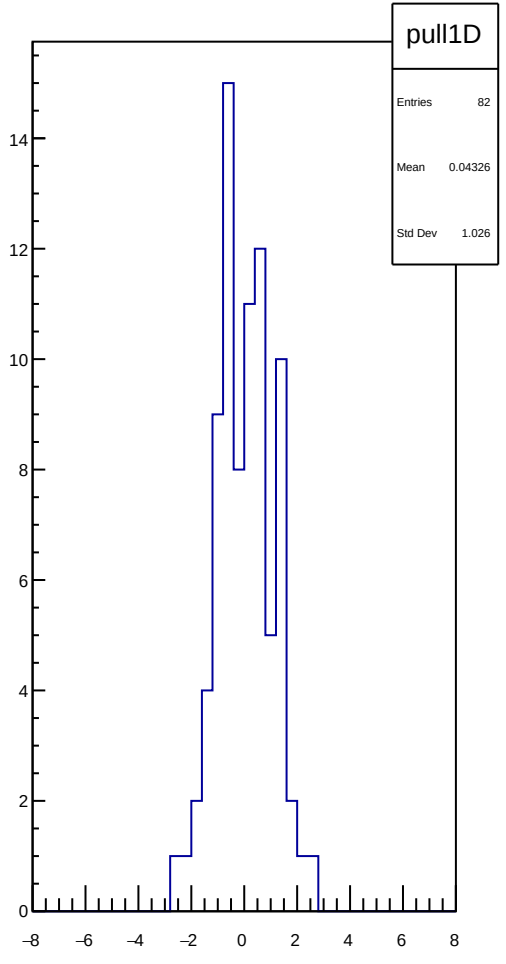

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 7634 / 81
p0 1064 ± 0.8373
1250
1200
1150
1100
1050
1000
950
900

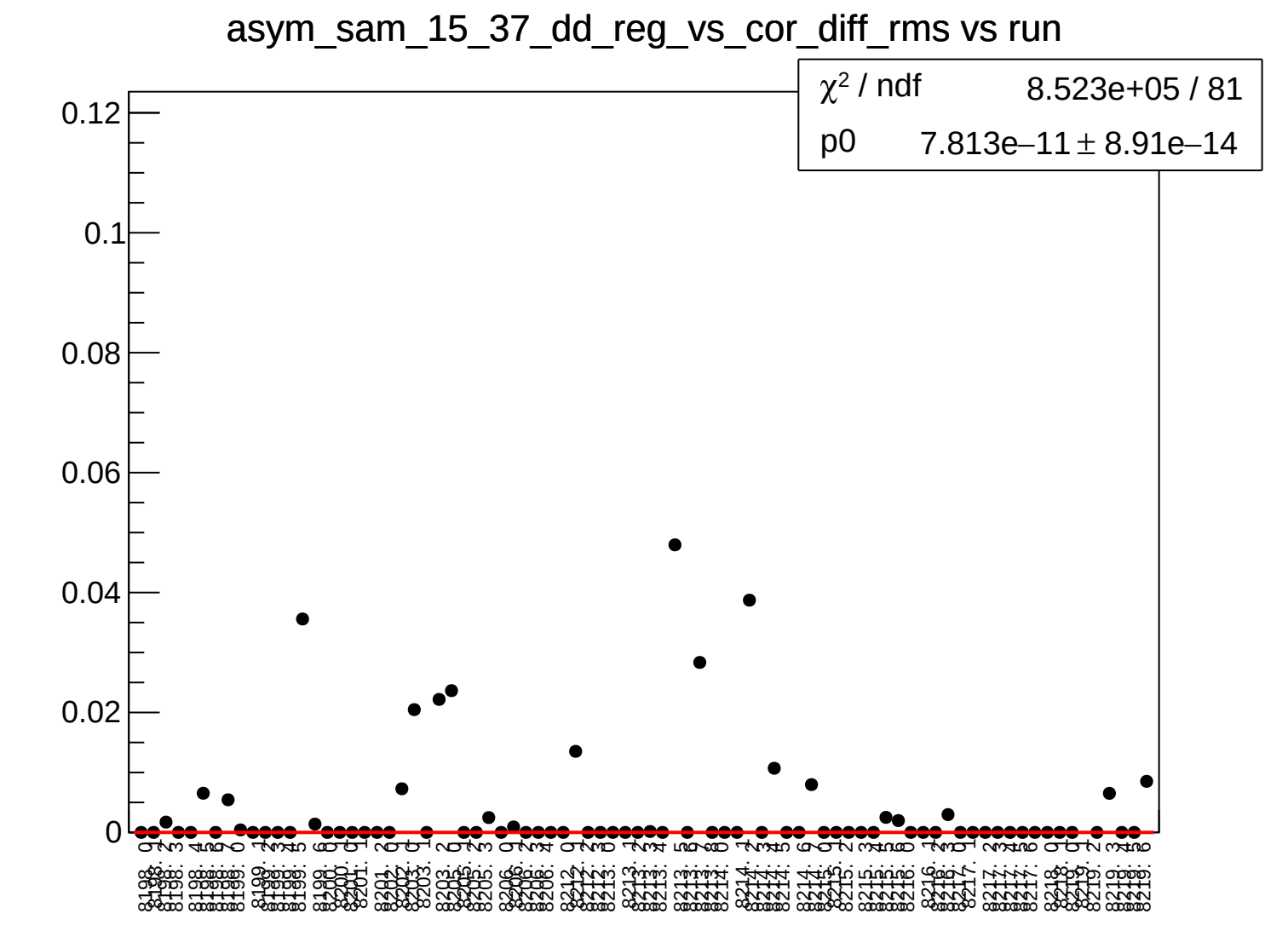

asym_sam_15_37_dd_mean vs run
χ² / ndf 88.27 / 81
p0 −935.3 ± 1198
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −224.8
Std Dev 0
3
2
1
0
−1
−2

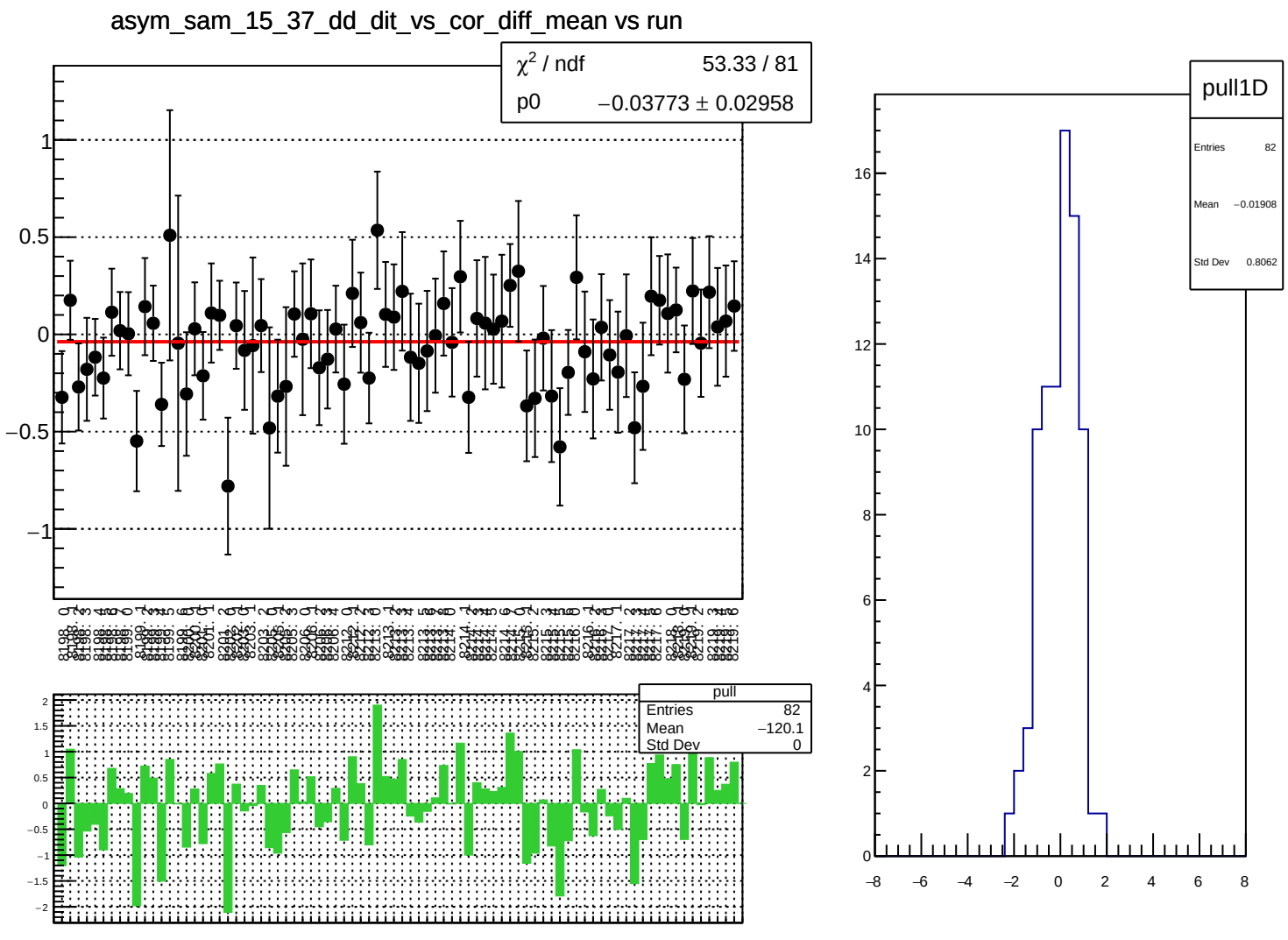

pull1D
Entries 82
Mean 0.004355
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

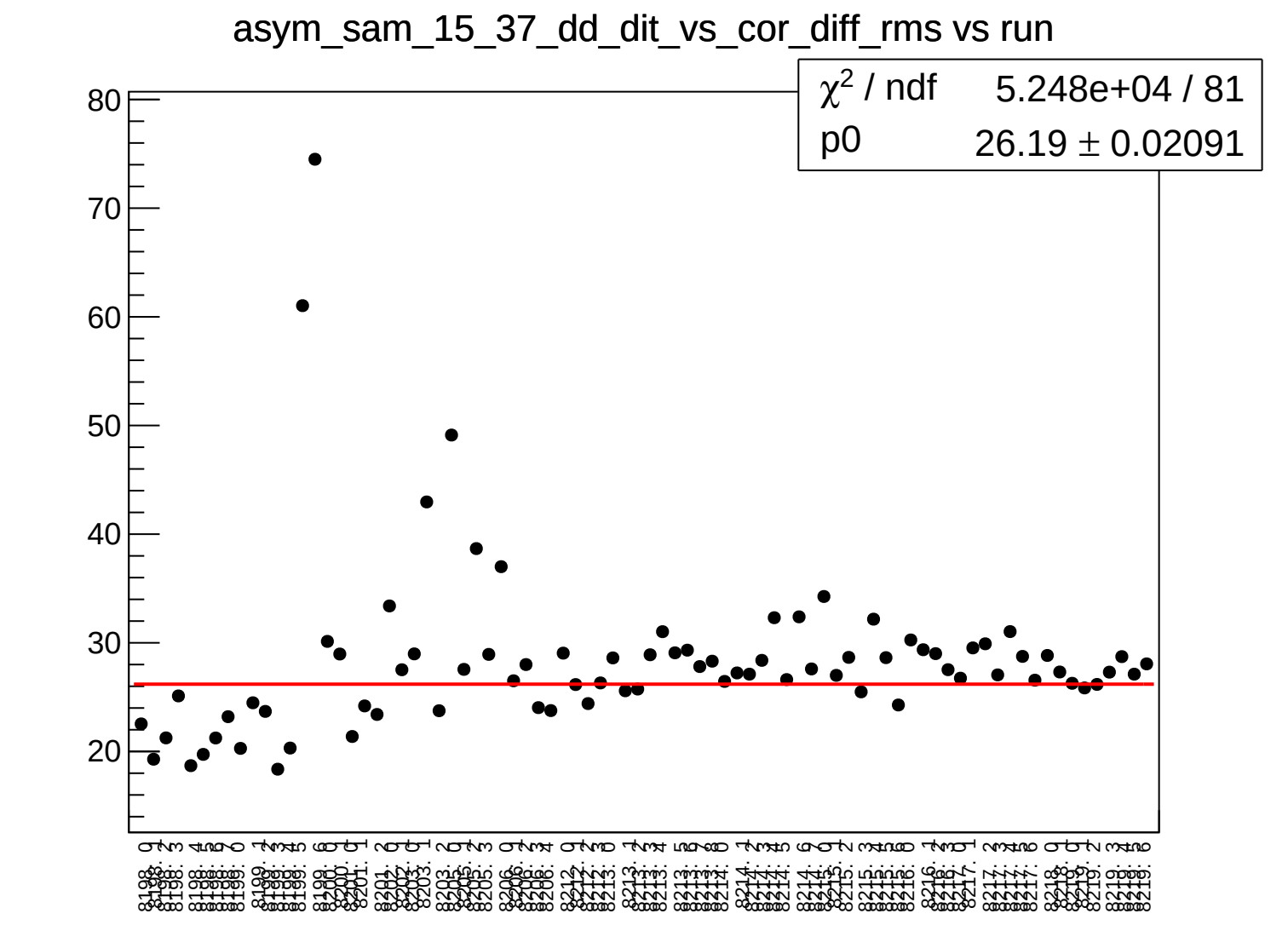

asym_sam_15_37_dd_rms vs run
χ² / ndf 7613 / 81
p0 1076 ± 0.8469
1300
1250
1200
1150
1100
1050
1000
950
900

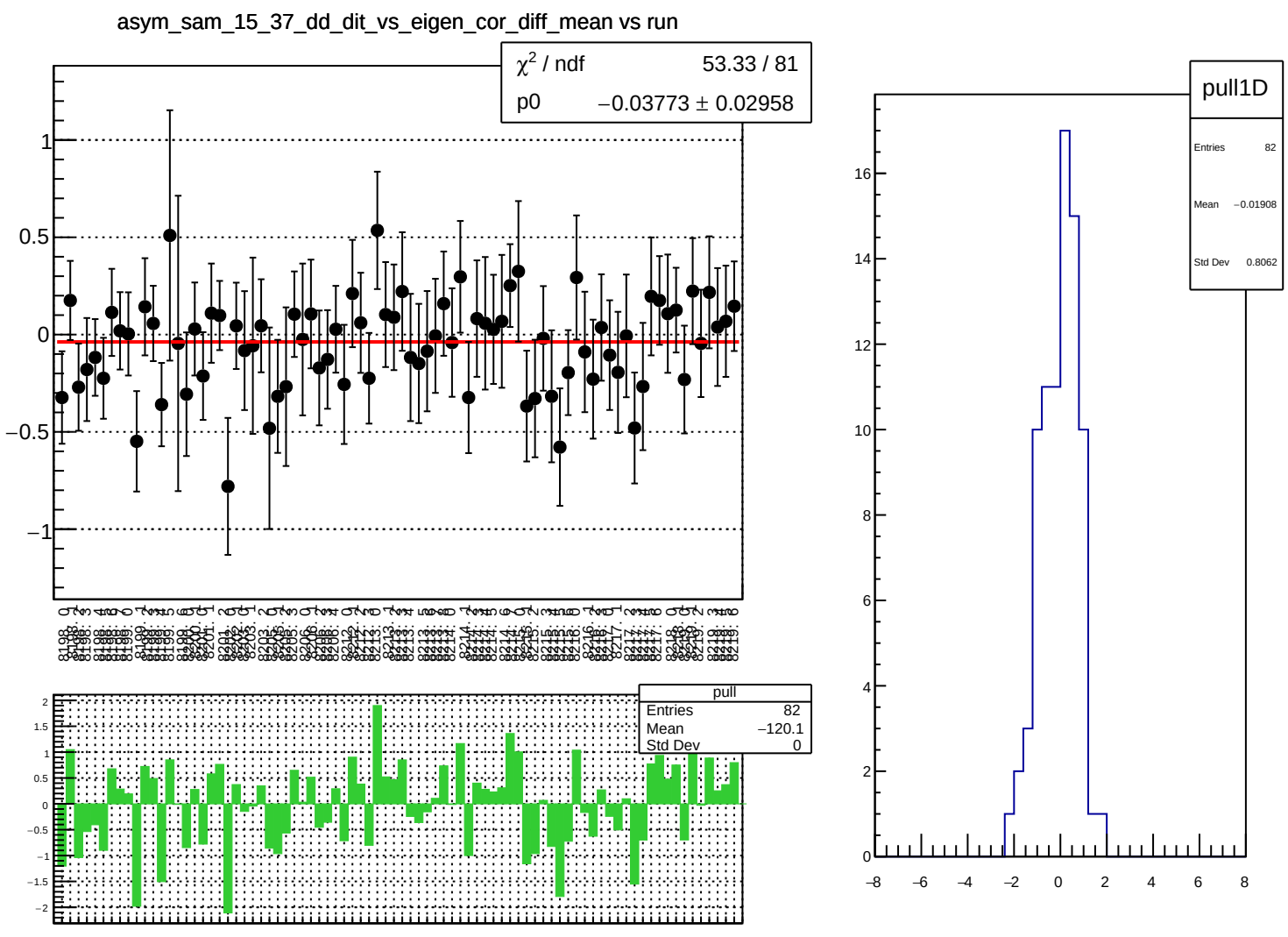

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.41 / 81
p0 1.392e−13 ± 1.26e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 82
Mean 60.39
Std Dev 0
2
1
0
−1
−2

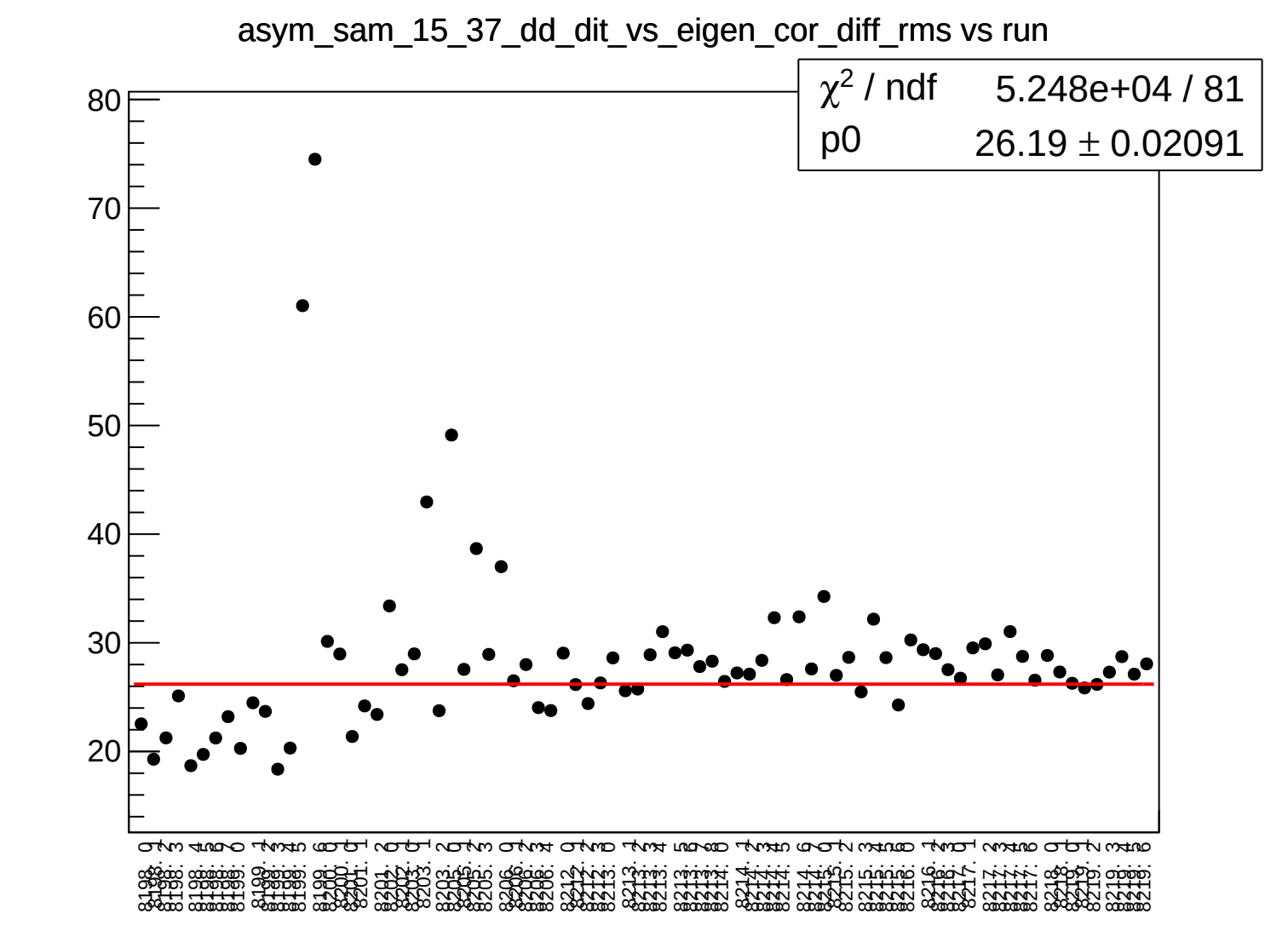

pull1D
Entries 82
Mean 0.04326
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

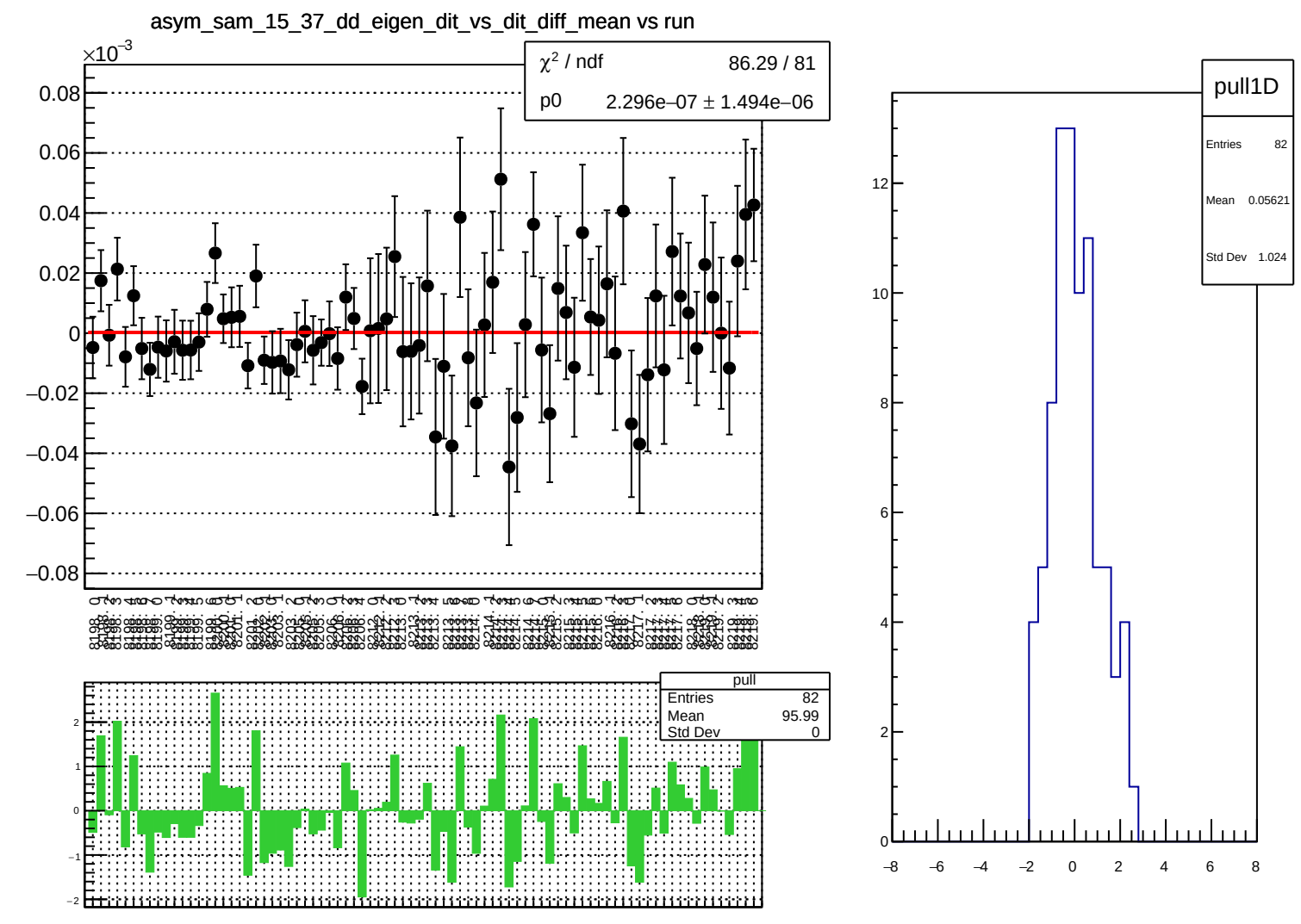

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.523e+05 / 81
p0 7.813e−11 ± 8.91e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

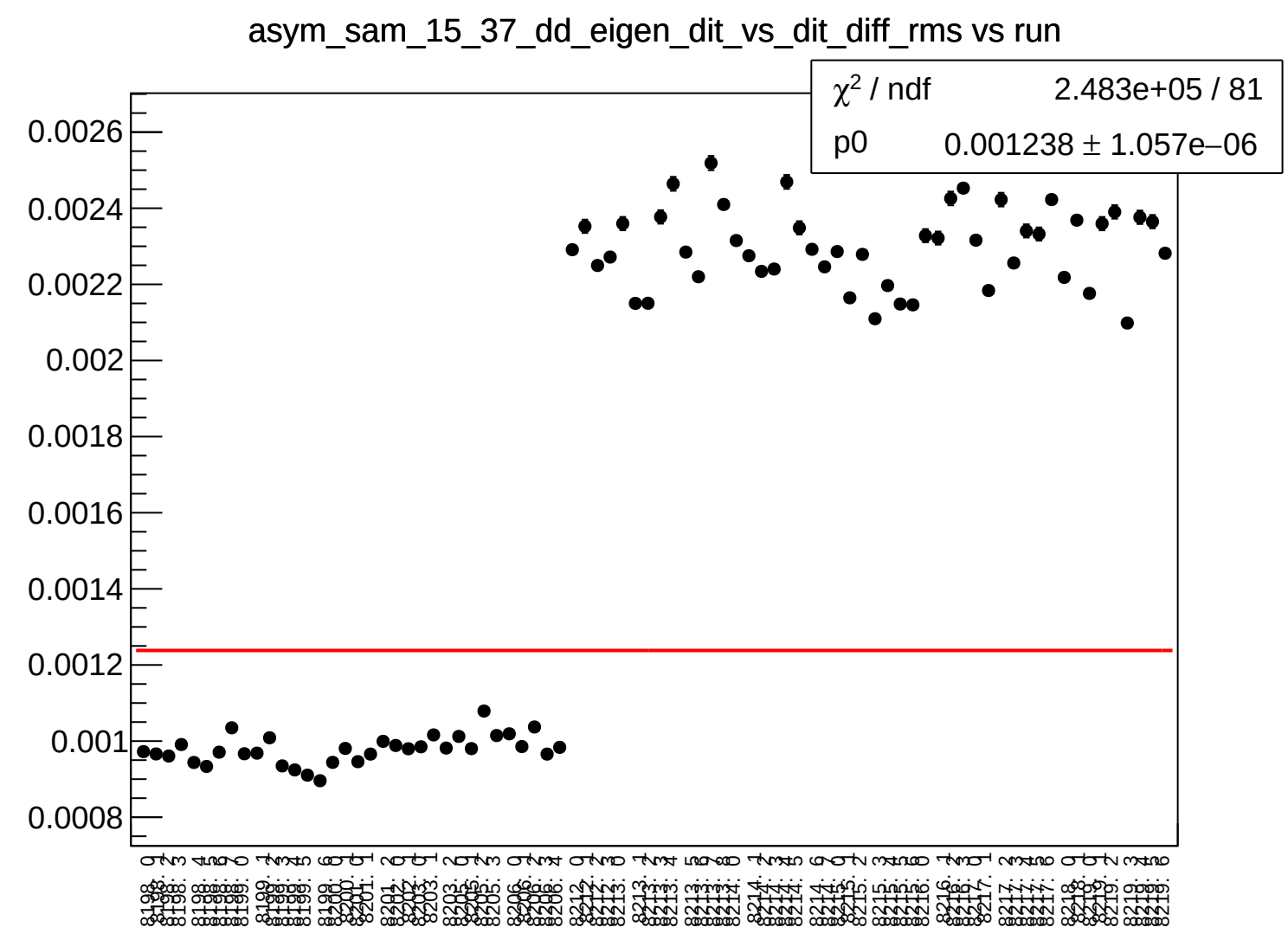

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 53.33 / 81
p0 −0.03773 ± 0.02958
pull
Entries 82
Mean −120.1
Std Dev 0
pull1D
Entries 82
Mean −0.01908
Std Dev 0.8062

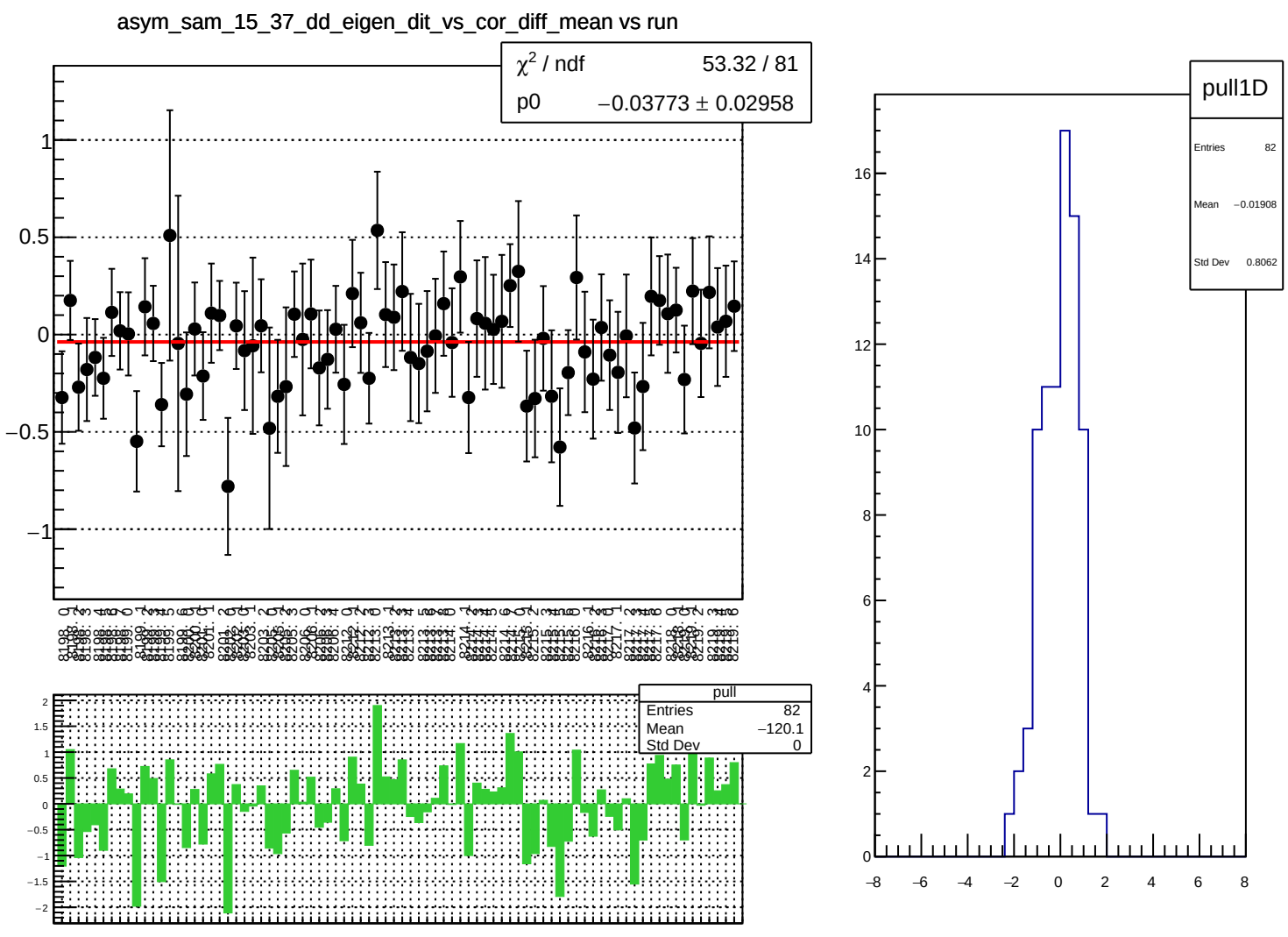

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.248e+04 / 81
p0 26.19 ± 0.02091
80
70
60
50
40
30
20

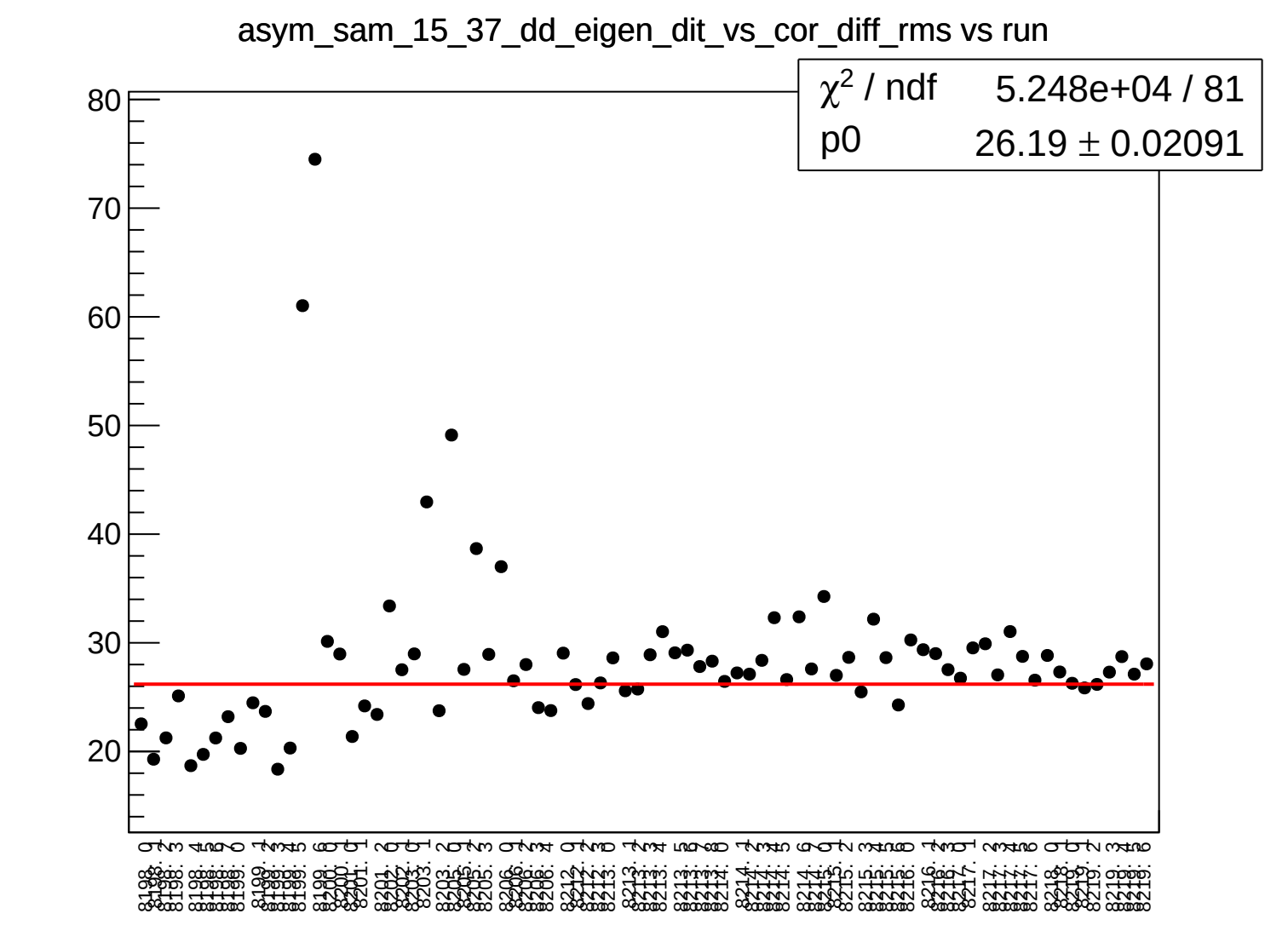

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.33 / 81
p0 −0.03773 ± 0.02958
pull
Entries 82
Mean −120.1
Std Dev 0
pull1D
Entries 82
Mean −0.01908
Std Dev 0.8062

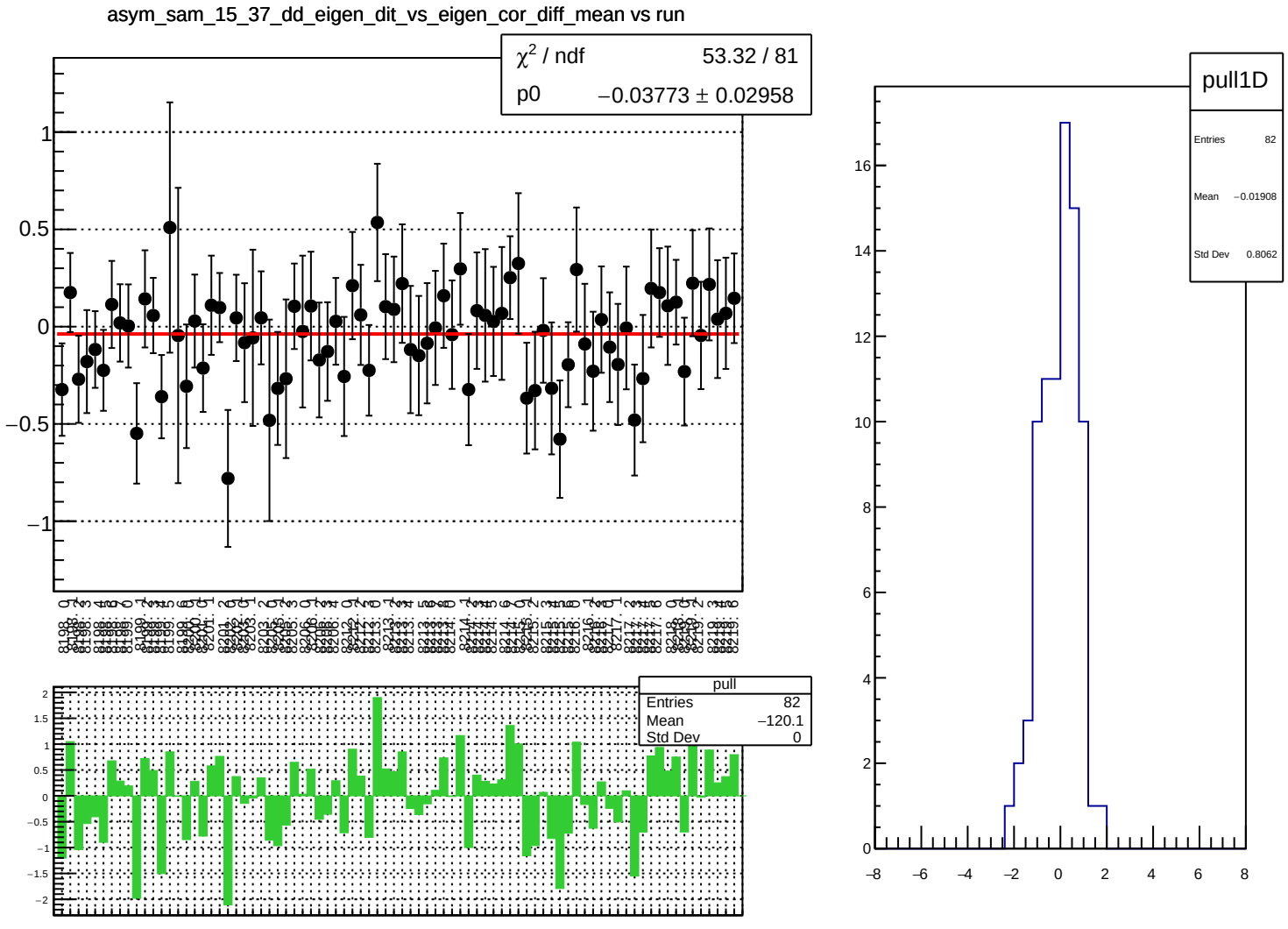

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.248e+04 / 81
p0 26.19 ± 0.02091
80
70
60
50
40
30
20

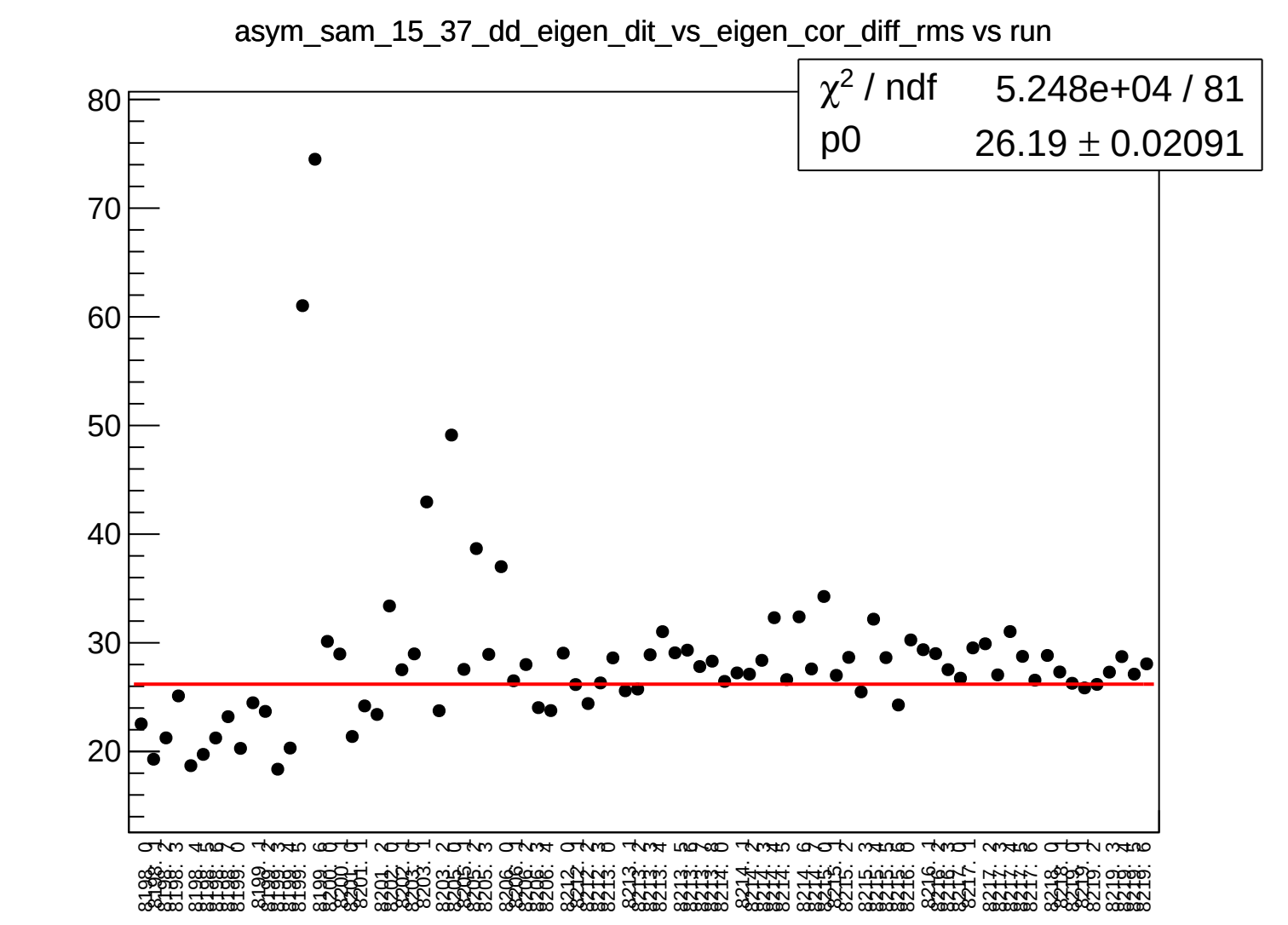

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.29 / 81
p0 2.296e−07 ± 1.494e−06
pull
Entries 82
Mean 95.99
Std Dev 0
pull1D
Entries 82
Mean 0.05621
Std Dev 1.024

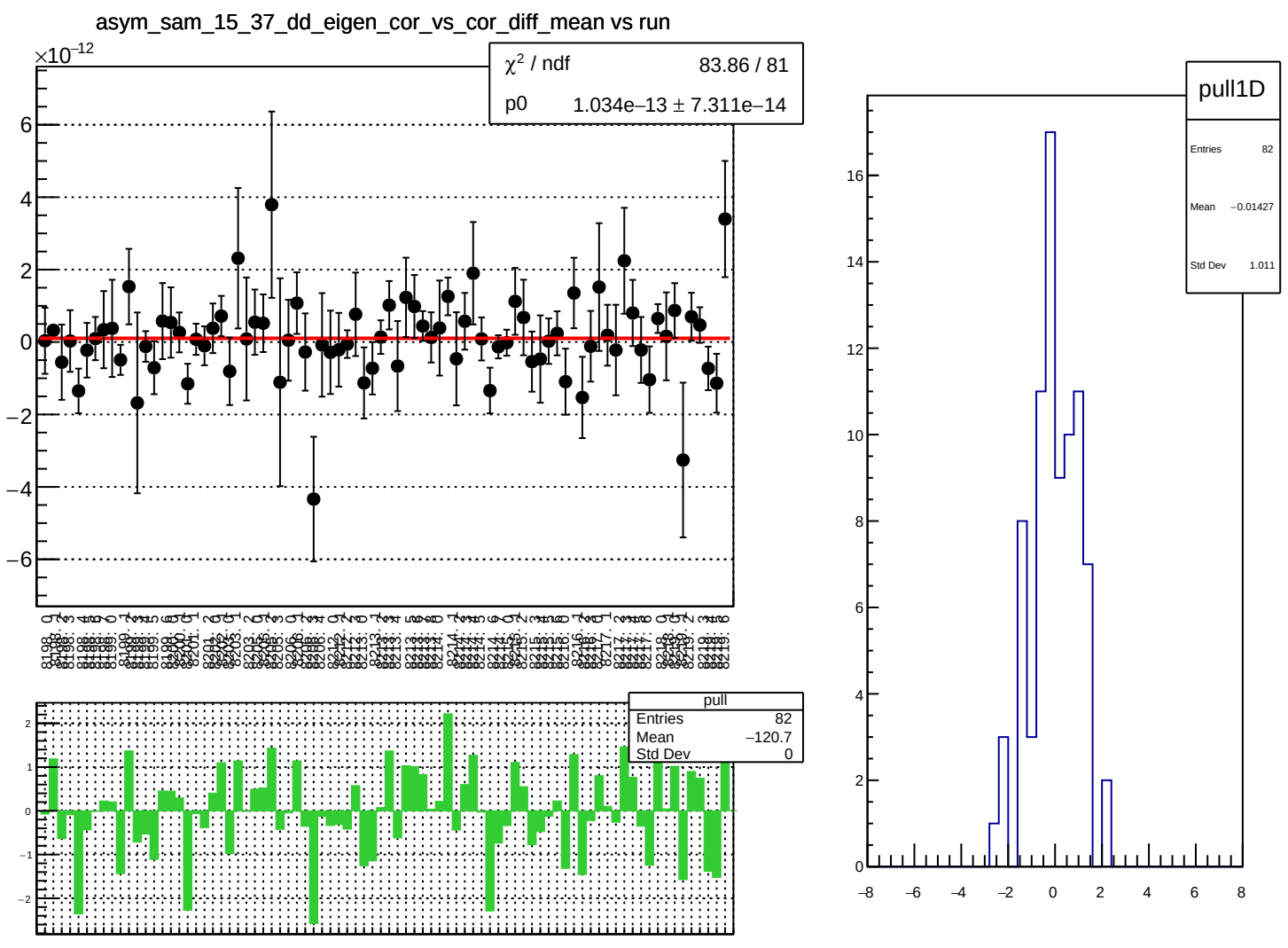

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.483e+05 / 81
p0 0.001238 ± 1.057e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

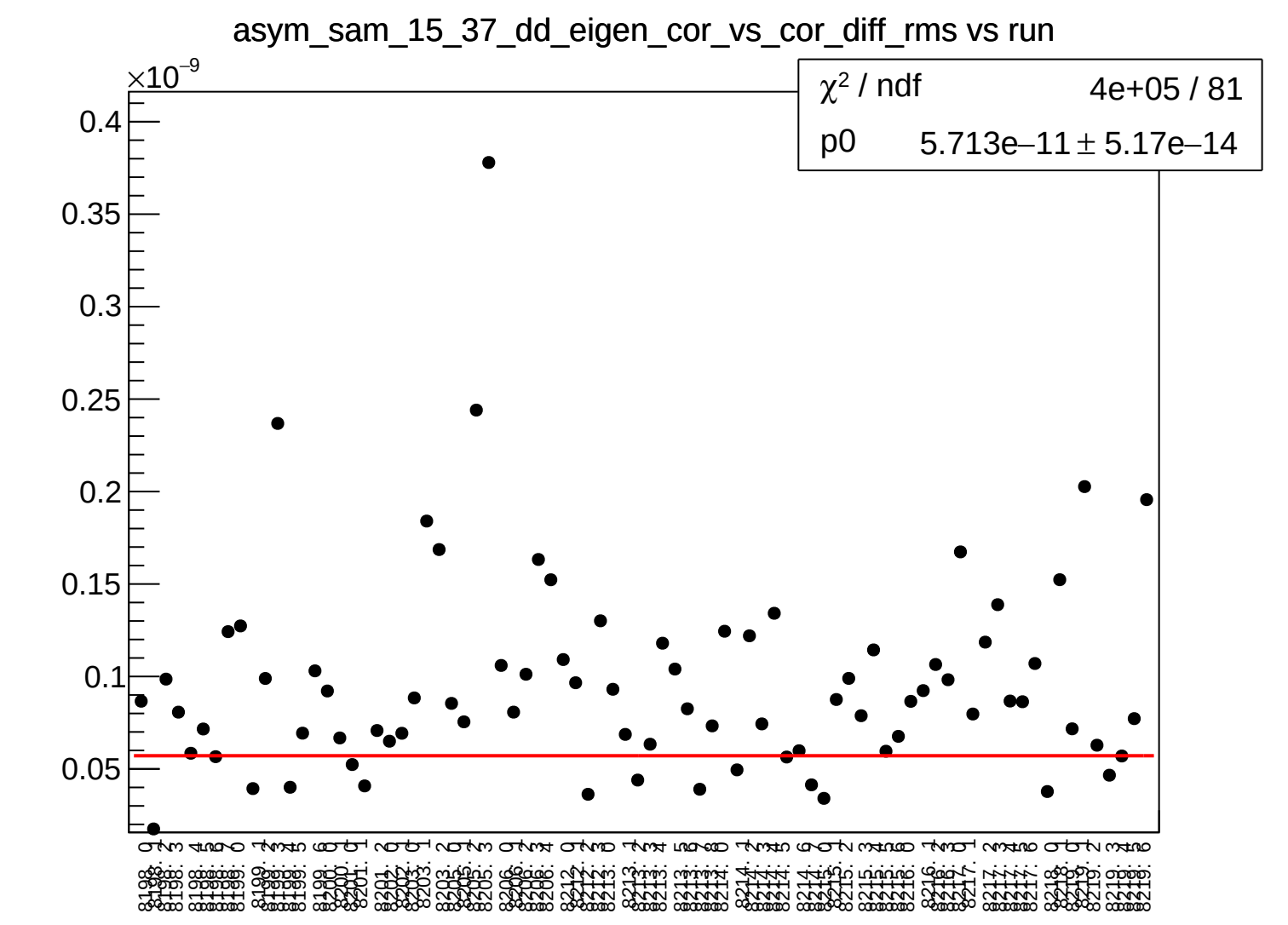

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 53.32 / 81
p0 −0.03773 ± 0.02958
pull
Entries 82
Mean −120.1
Std Dev 0
pull1D
Entries 82
Mean −0.01908
Std Dev 0.8062

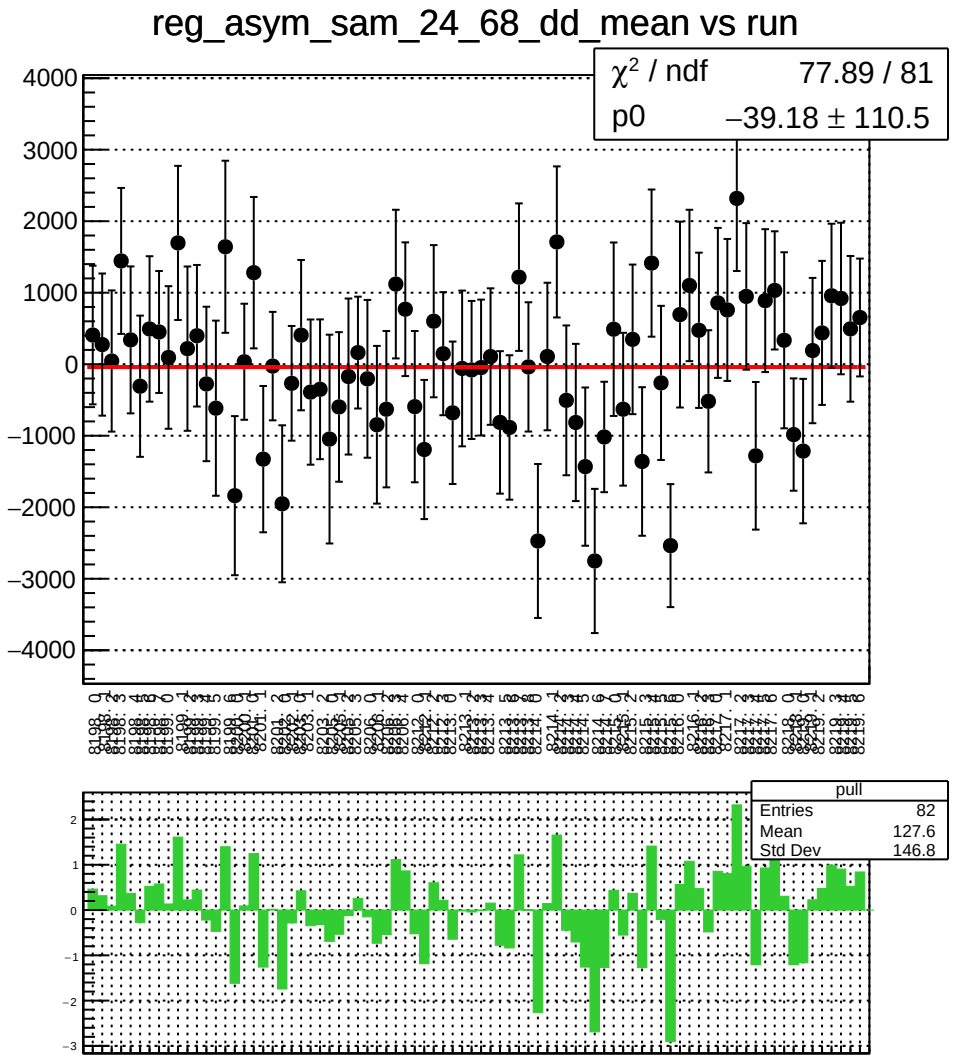

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.248e+04 / 81
p0 26.19 ± 0.02091
80
70
60
50
40
30
20

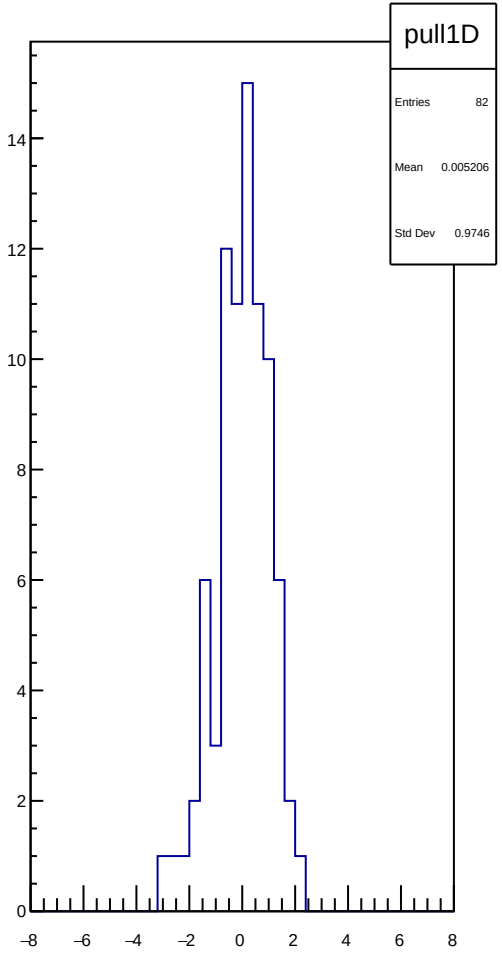

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.32 / 81
p0 −0.03773 ± 0.02958
pull
Entries 82
Mean −120.1
Std Dev 0
pull1D
Entries 82
Mean −0.01908
Std Dev 0.8062

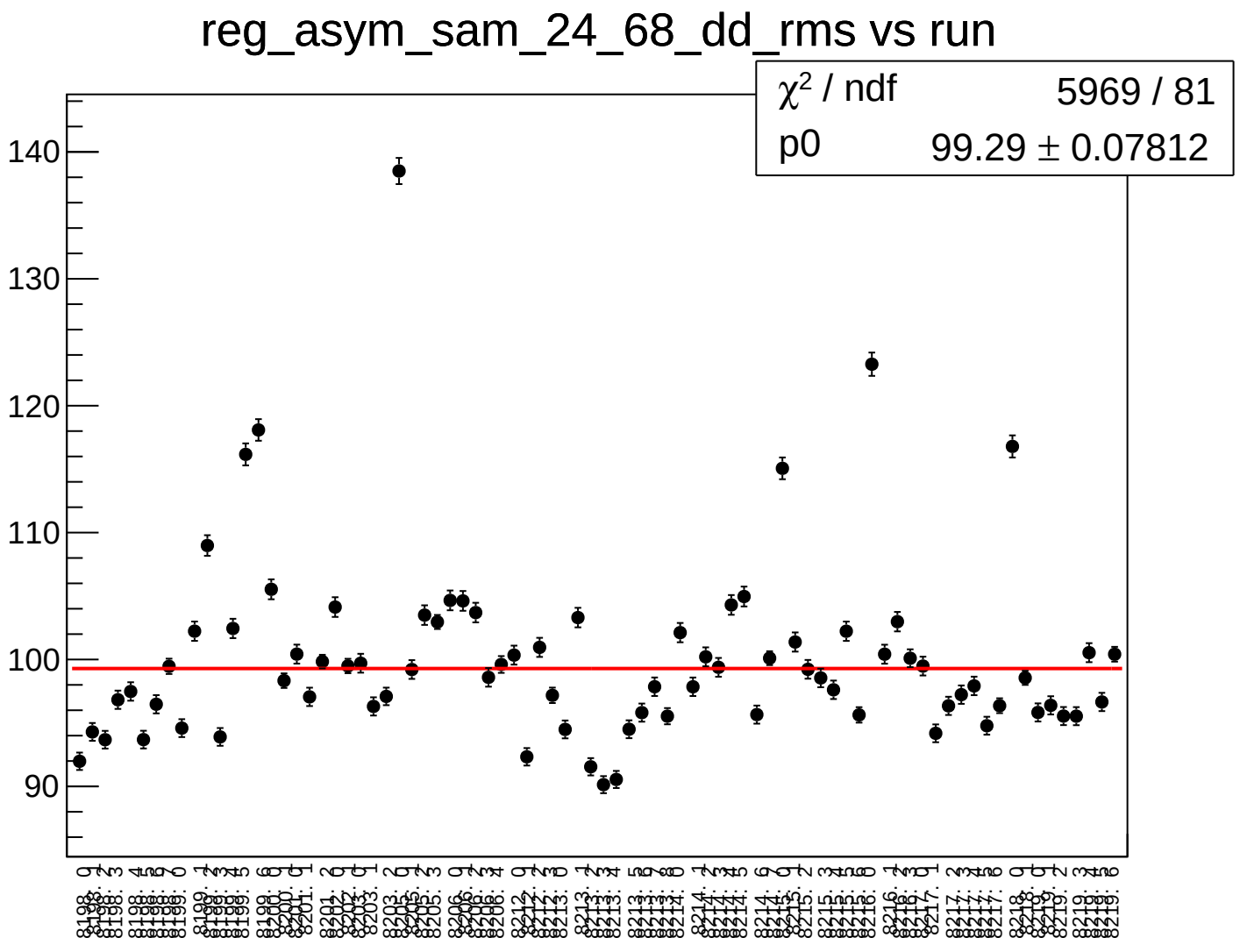

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.248e+04 / 81
p0 26.19 ± 0.02091
80
70
60
50
40
30
20

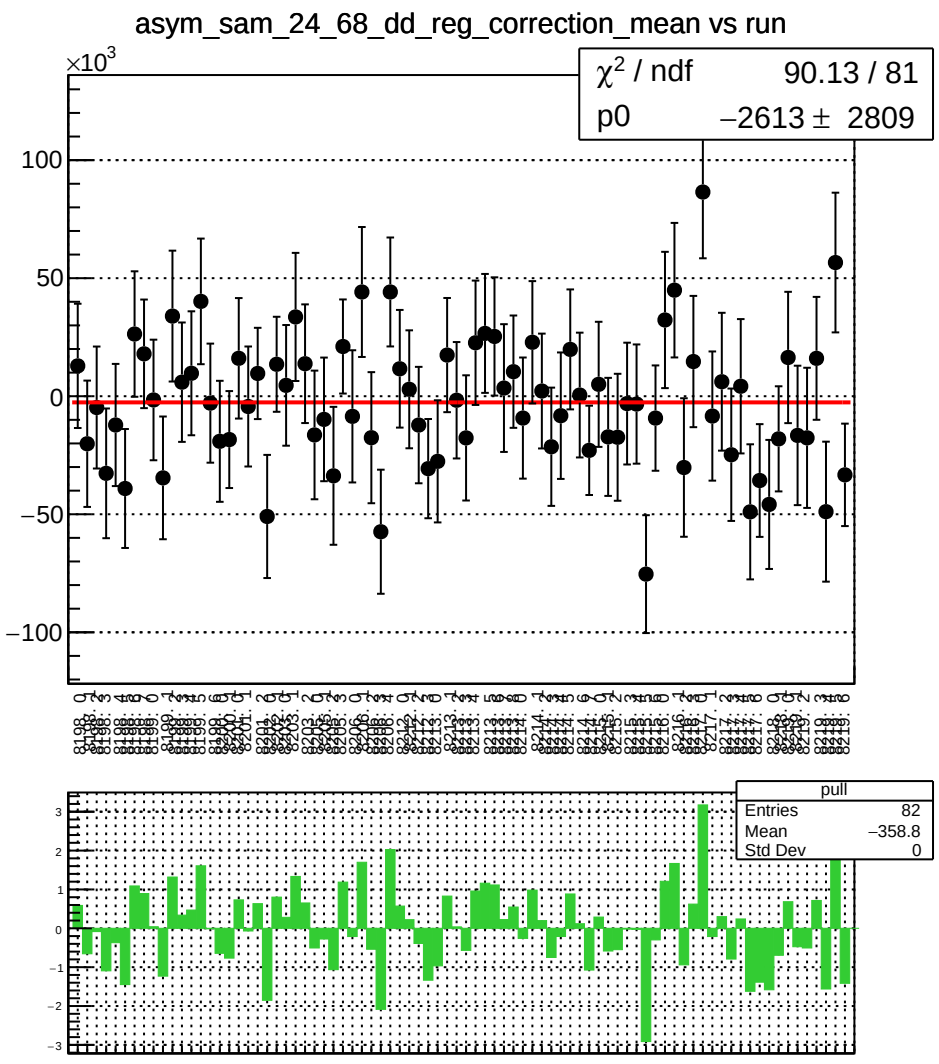

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.86 / 81
p0 1.034e−13 ± 7.311e−14
pull
Entries 82
Mean −120.7
Std Dev 0
pull1D
Entries 82
Mean −0.01427
Std Dev 1.011

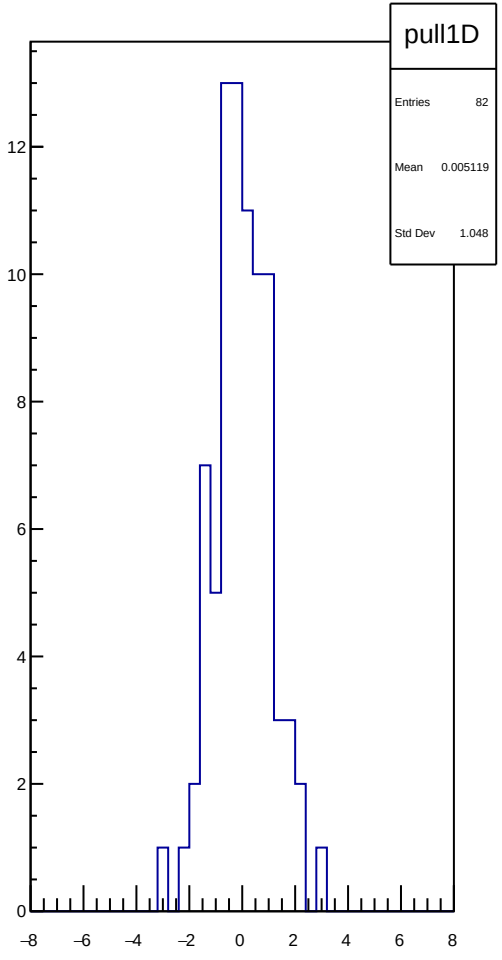

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4e+05 / 81
p0 5.713e−11 ± 5.17e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

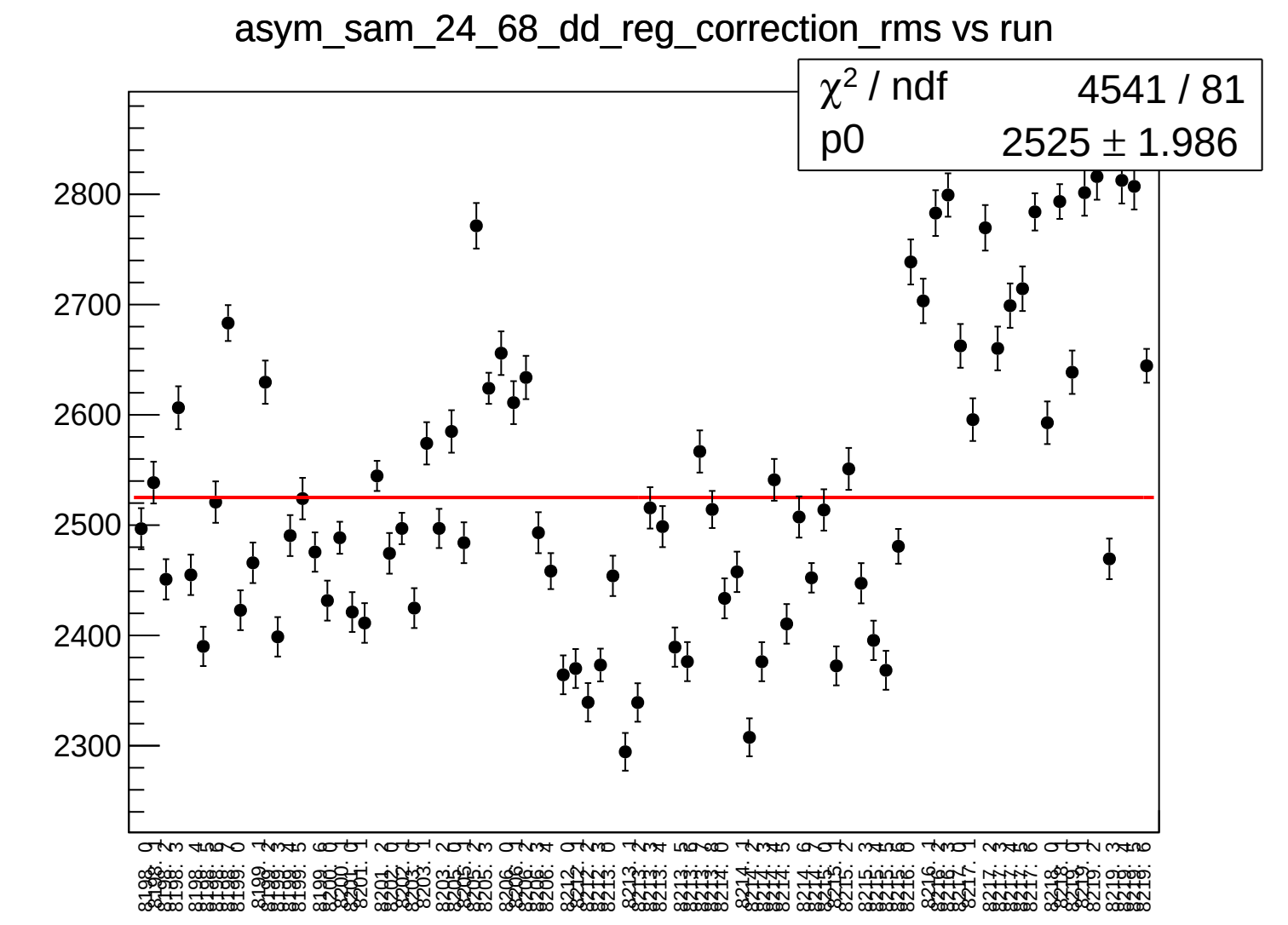

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 77.89 / 81
p0 −39.18 ± 110.5
pull
Entries 82
Mean 127.6
Std Dev 146.8

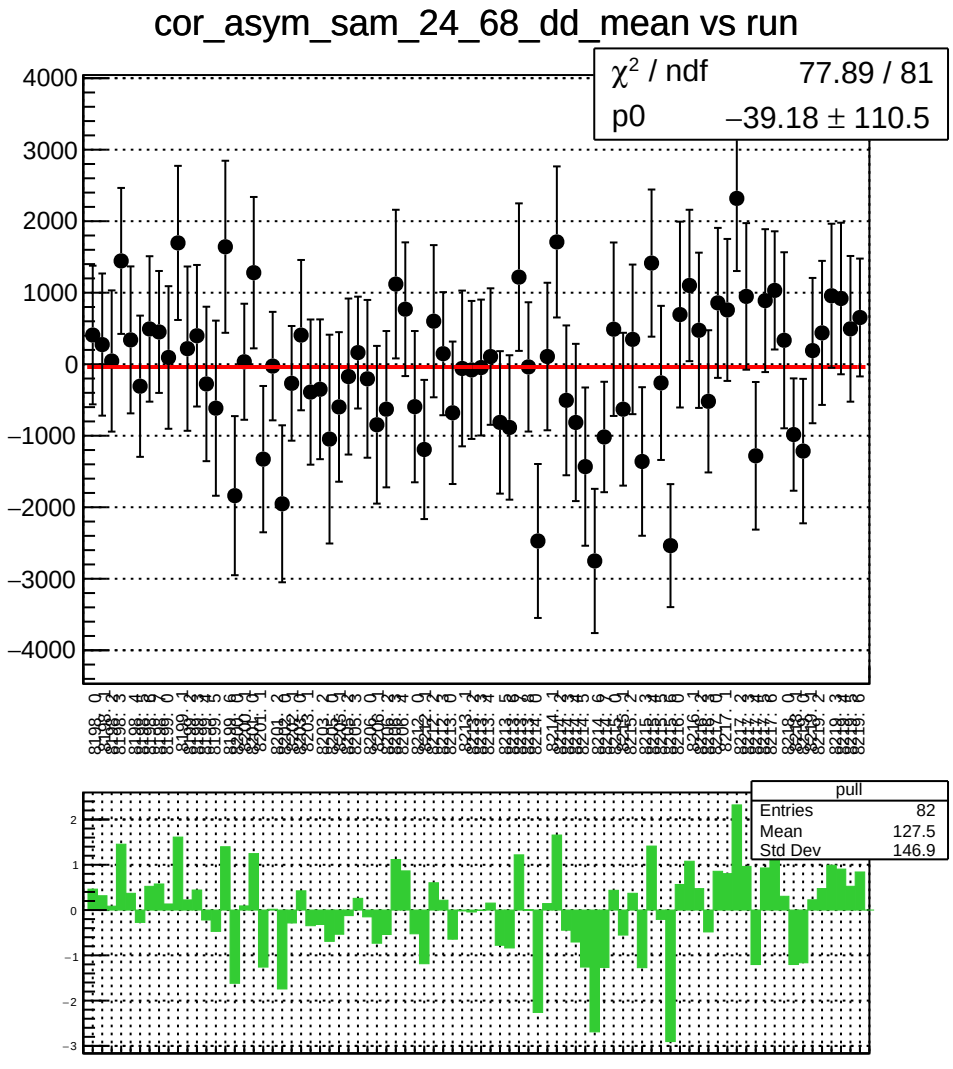

pull1D
Entries 82
Mean 0.005206
Std Dev 0.9746

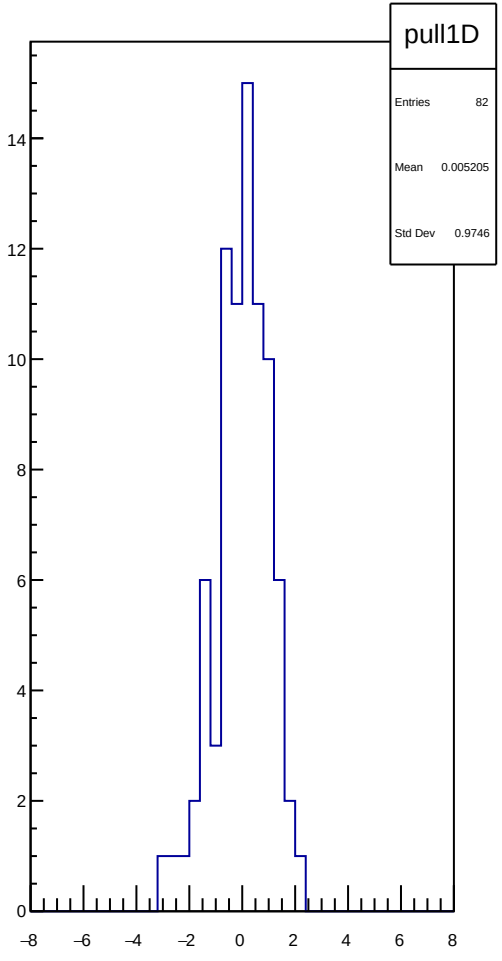

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 5969 / 81
p0 99.29 ± 0.07812
140
130
120
110
100
90

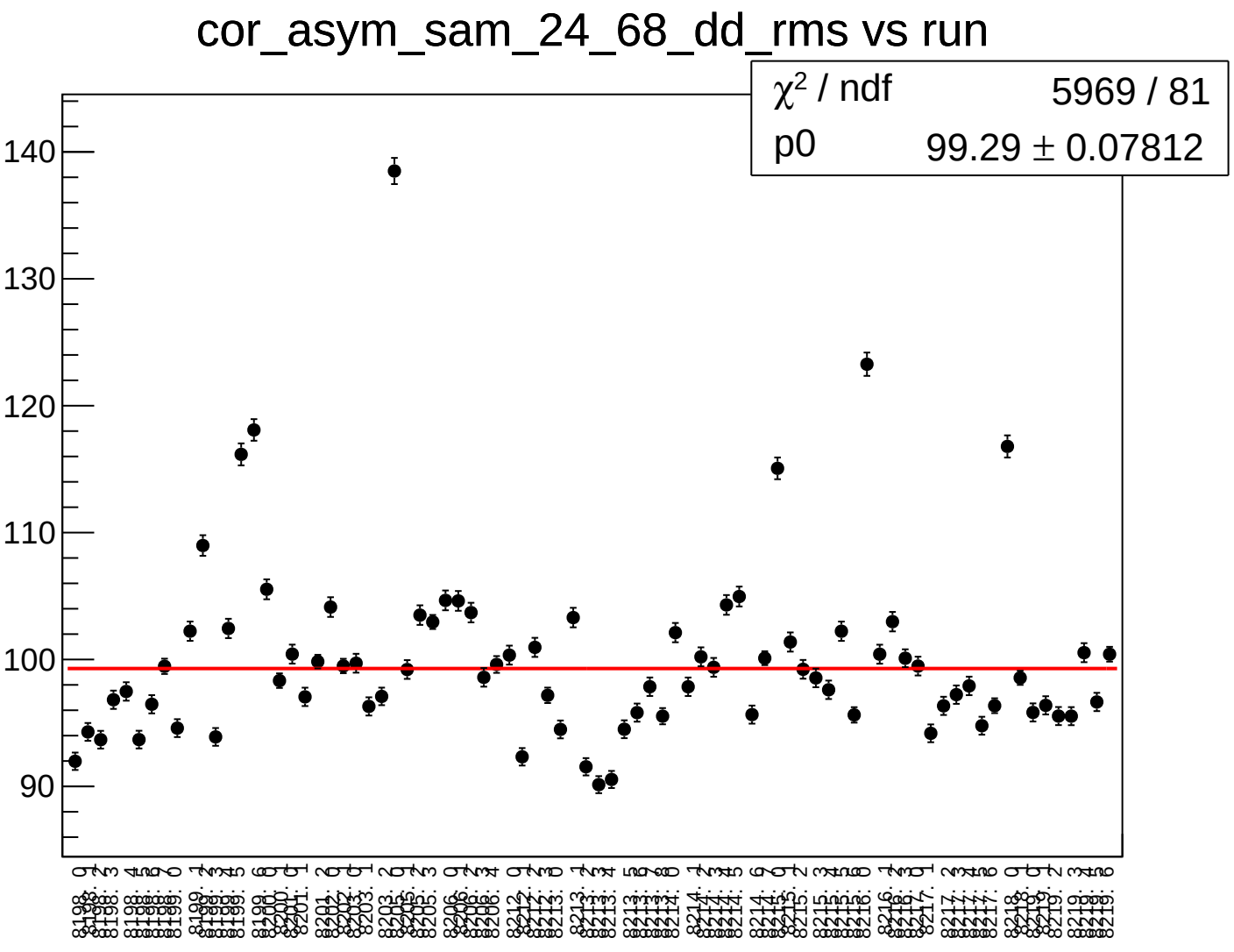

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 90.13 / 81
p0 −2613 ± 2809
100
50
0
−50
−100
pull
Entries 82
Mean −358.8
Std Dev 0
3
2
1
0
−1
−2
−3

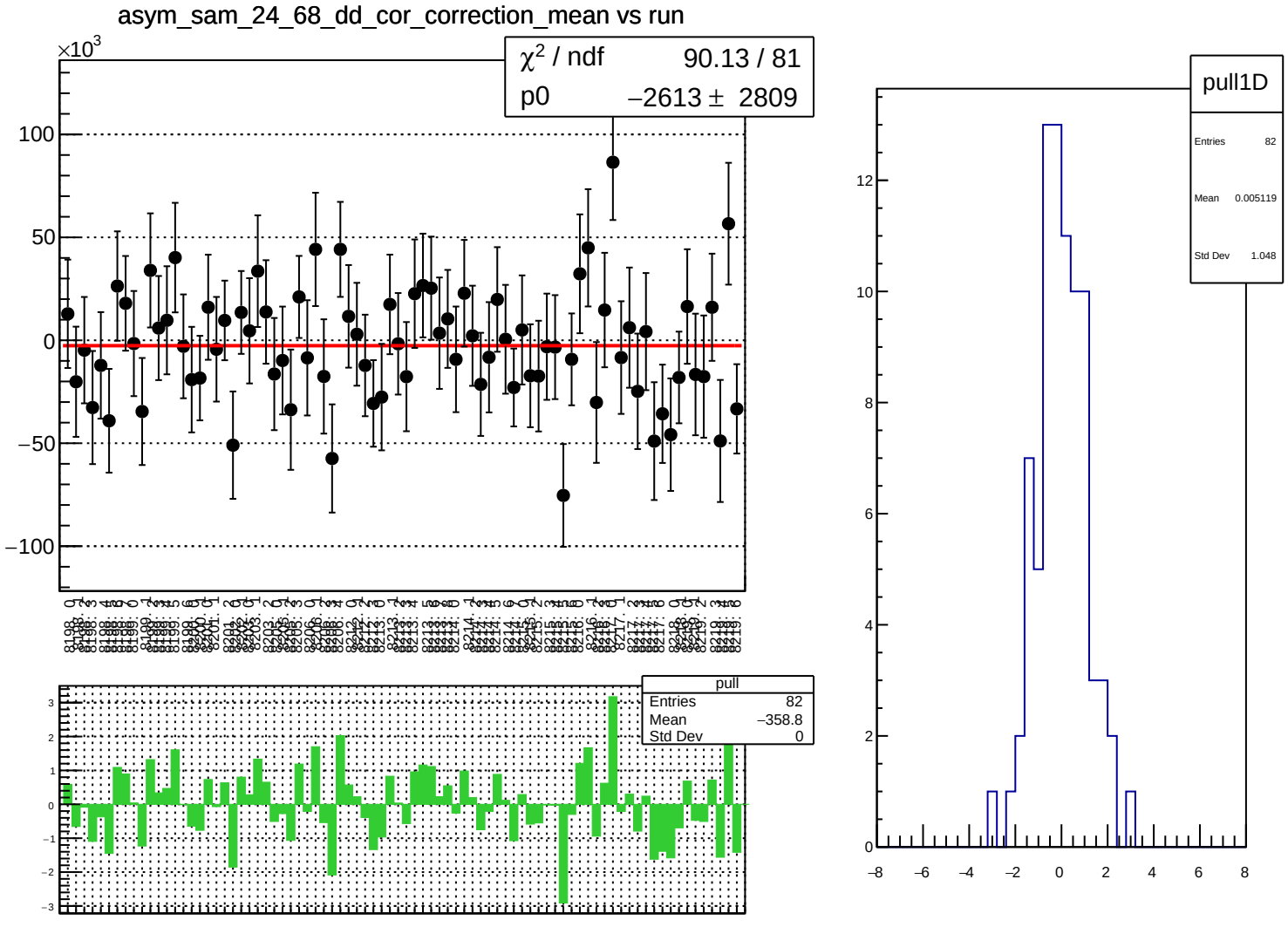

pull1D
Entries 82
Mean 0.005119
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

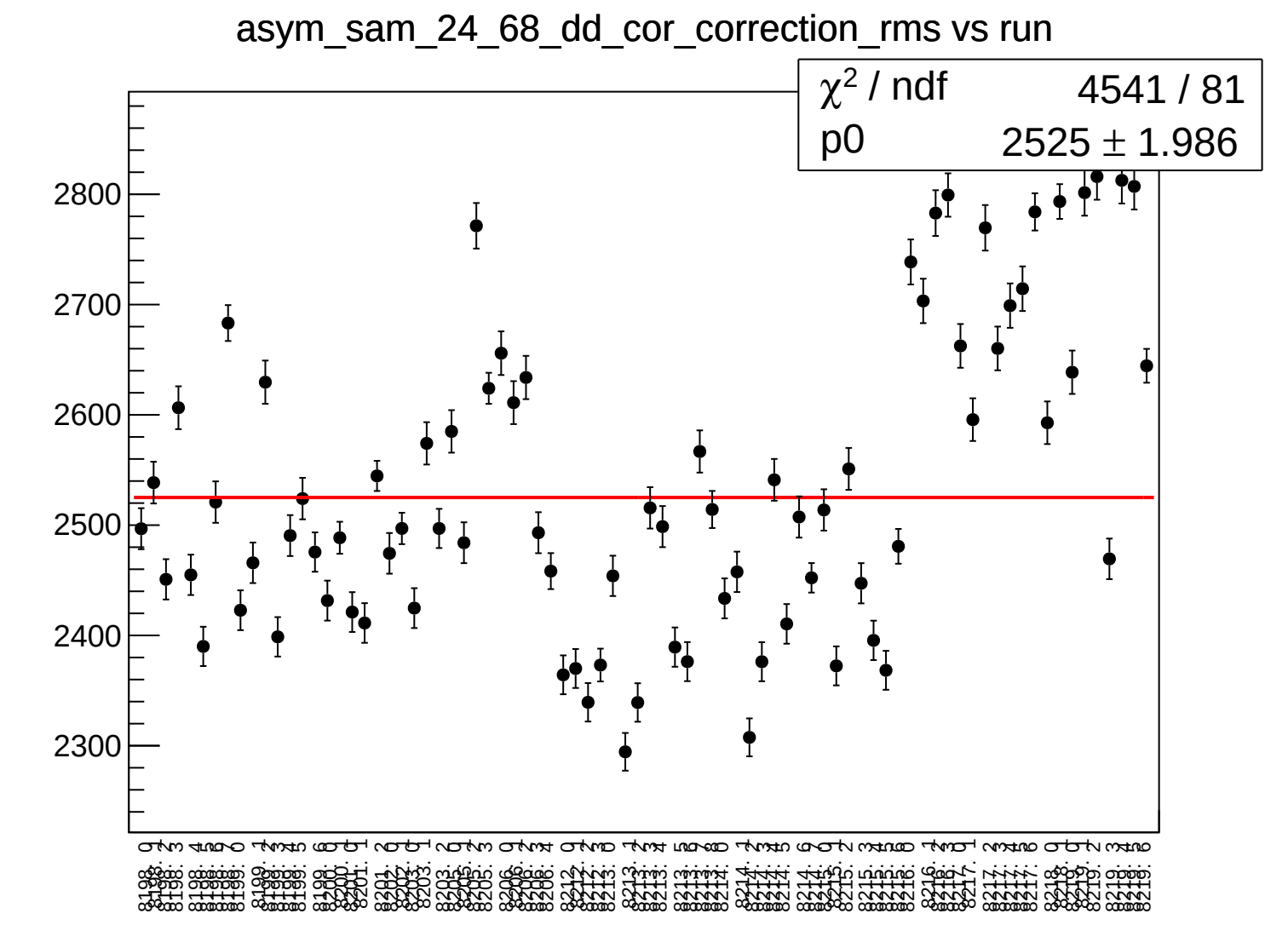

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 4541 / 81
p0 2525 ± 1.986
2800
2700
2600
2500
2400
2300

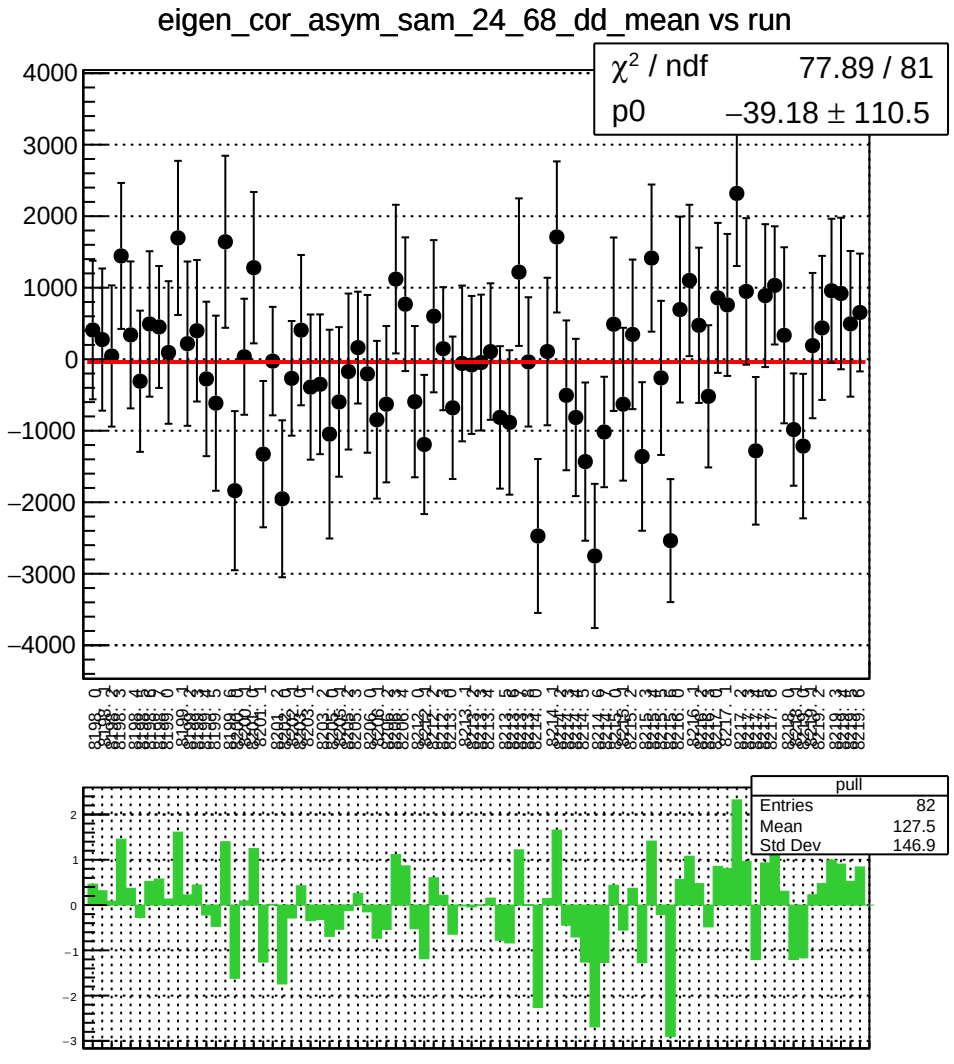

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 77.89 / 81
p0 −39.18 ± 110.5
pull
Entries 82
Mean 127.5
Std Dev 146.9

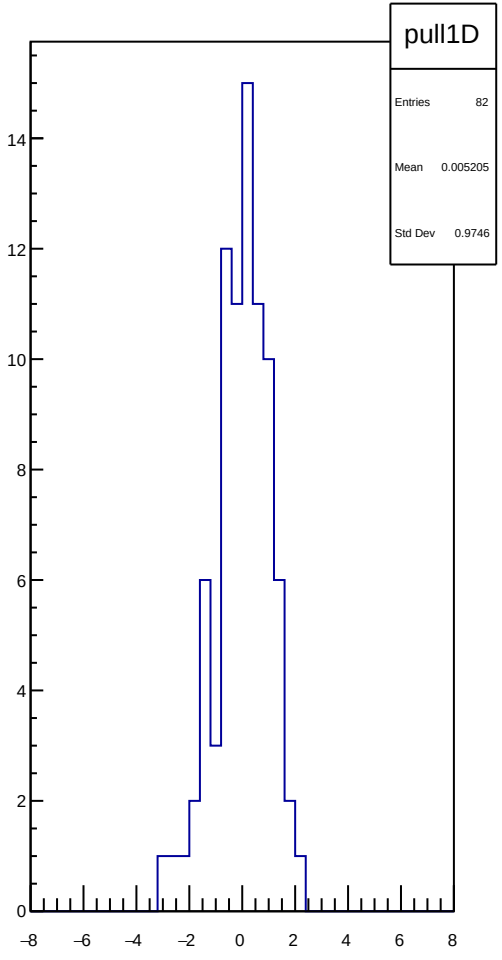

pull1D
Entries 82
Mean 0.005205
Std Dev 0.9746

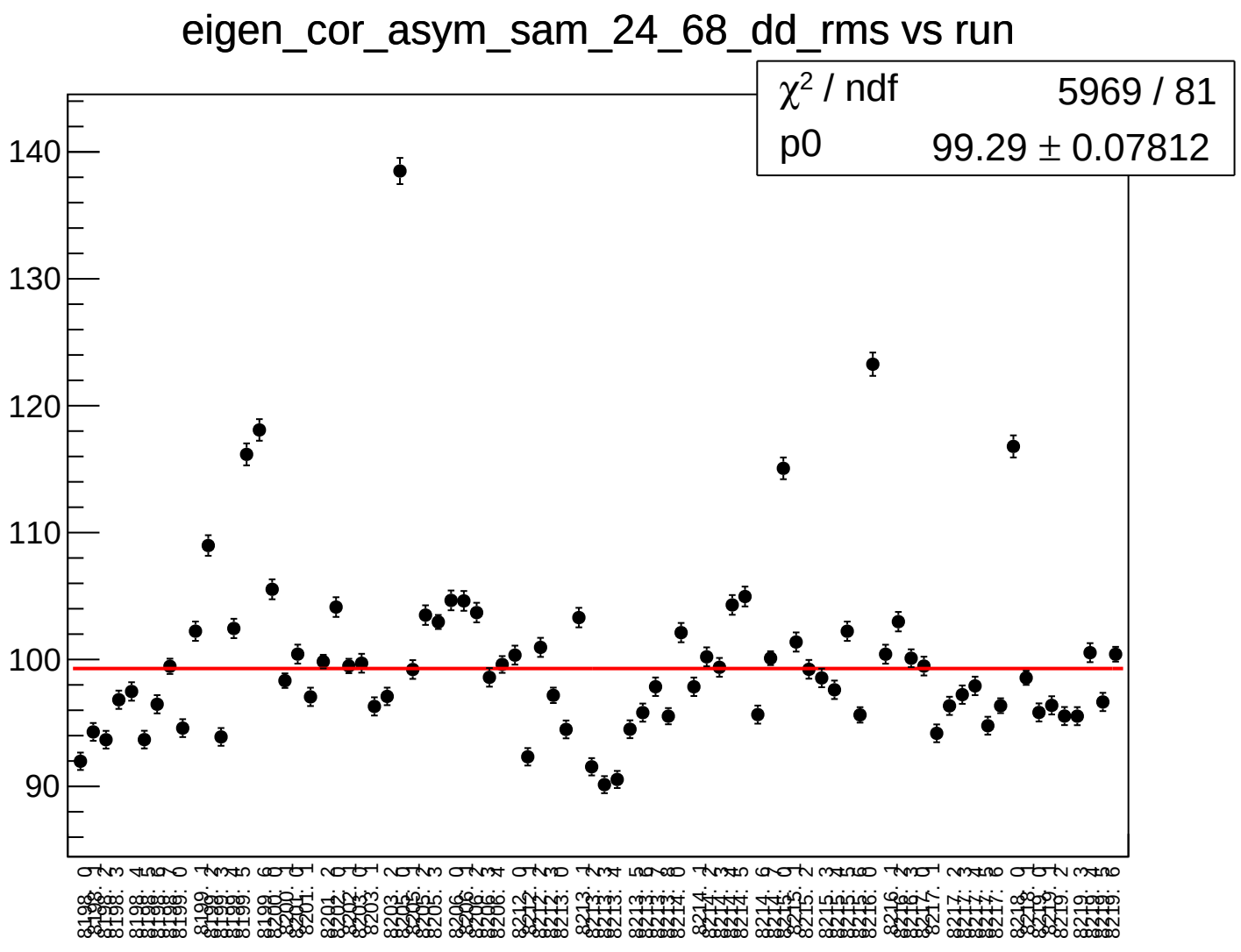

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 5969 / 81
p0 99.29 ± 0.07812
140
130
120
110
100
90

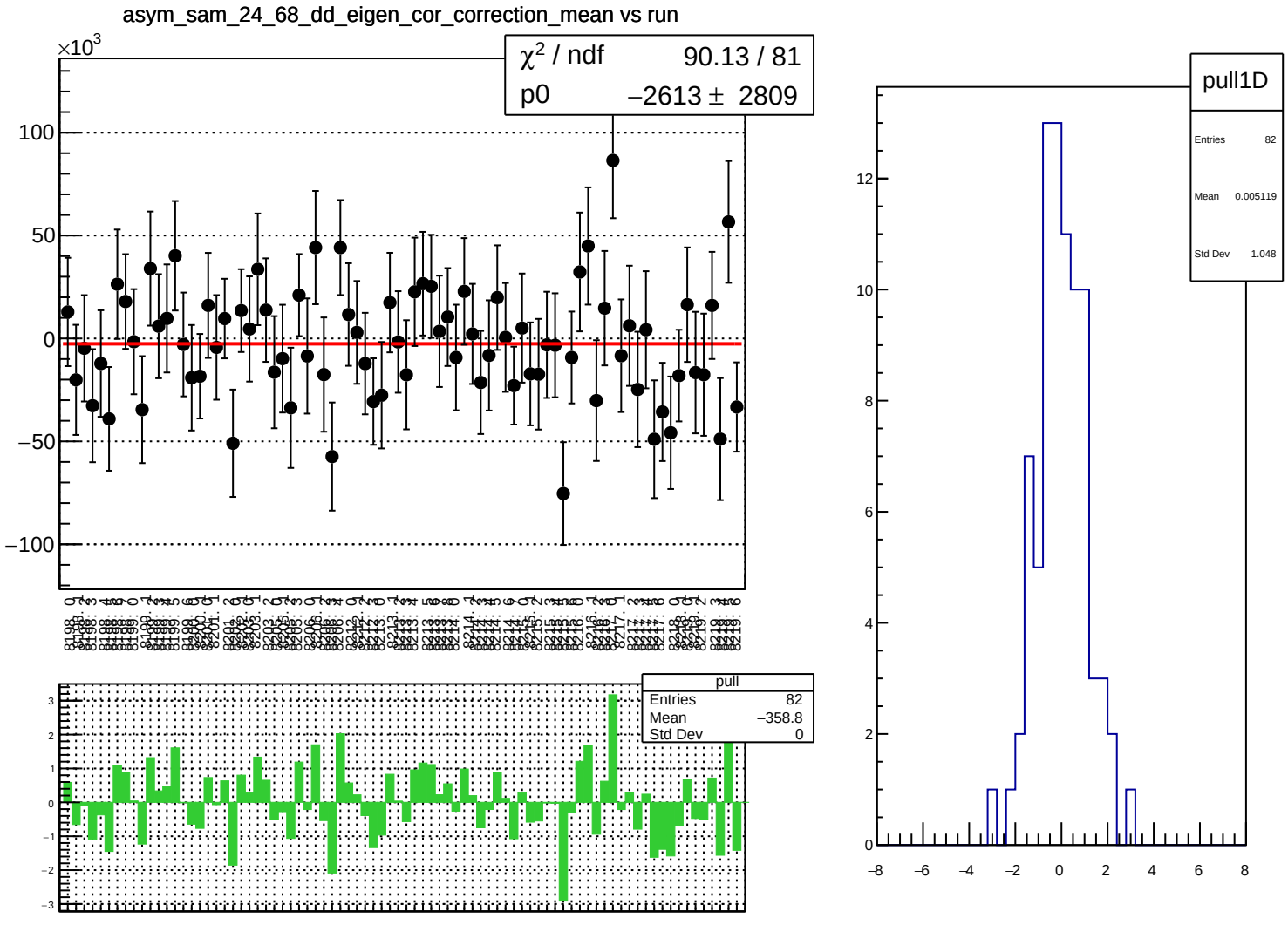

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 90.13 / 81
p0 −2613 ± 2809
100
50
0
−50
−100
pull
Entries 82
Mean −358.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.005119
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

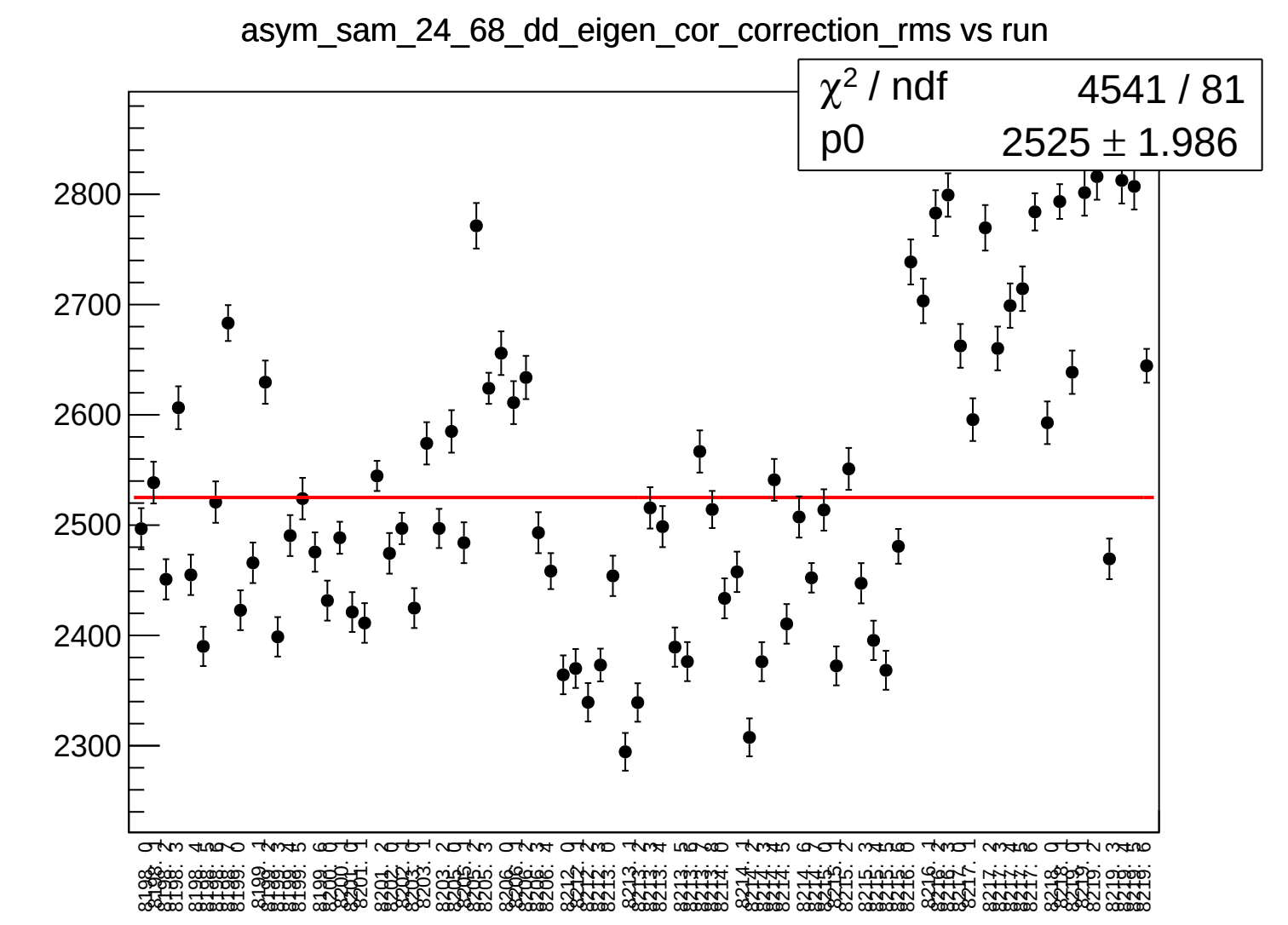

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 4541 / 81
p0 2525 ± 1.986
2800
2700
2600
2500
2400
2300

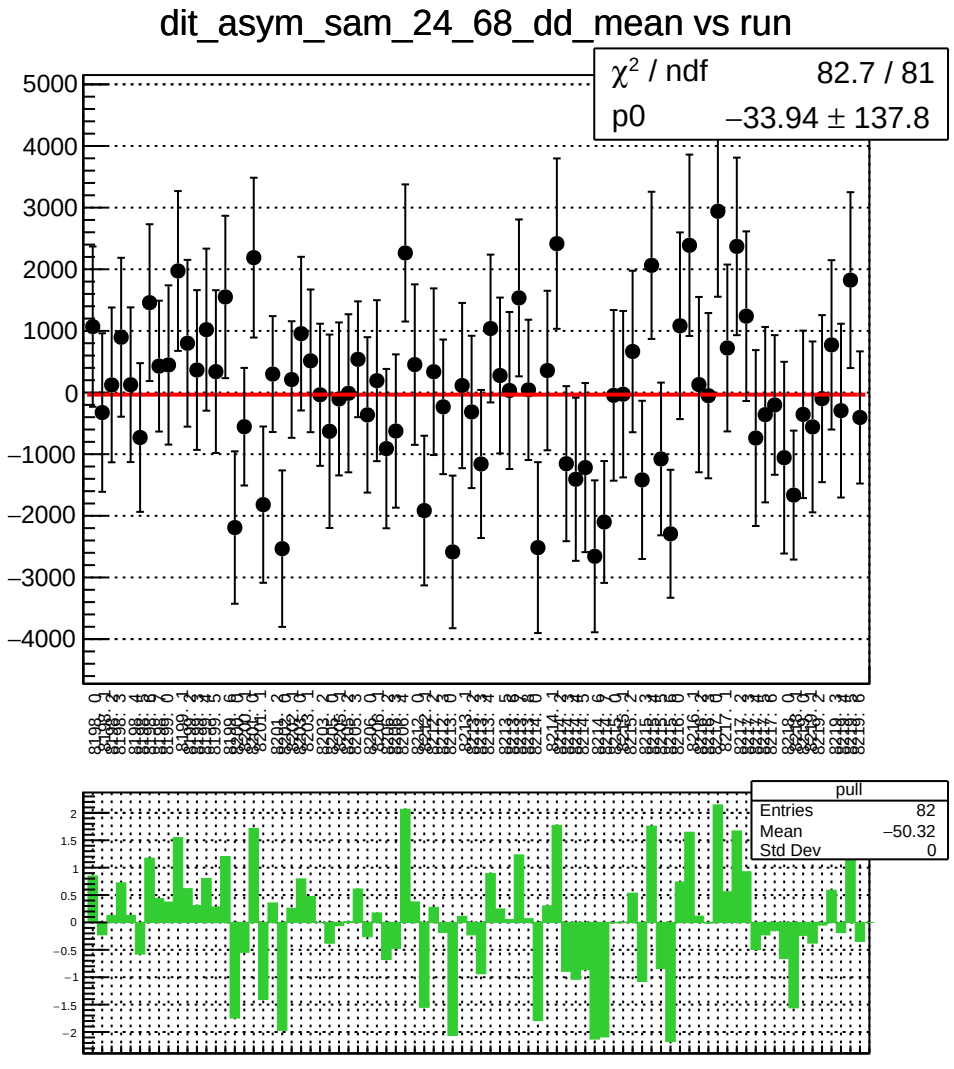

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 77.89 / 81
p0 −39.18 ± 110.5
pull
Entries 82
Mean 127.5
Std Dev 146.9

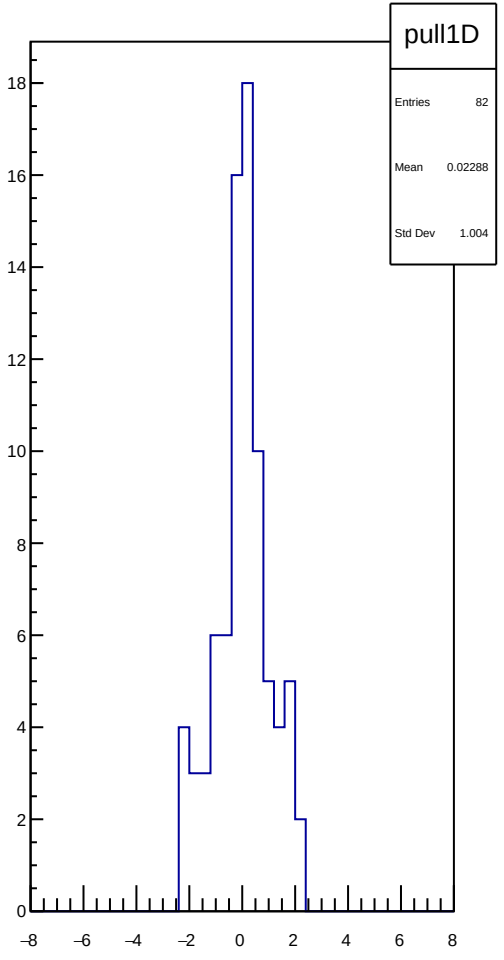

pull1D
Entries 82
Mean 0.005205
Std Dev 0.9746

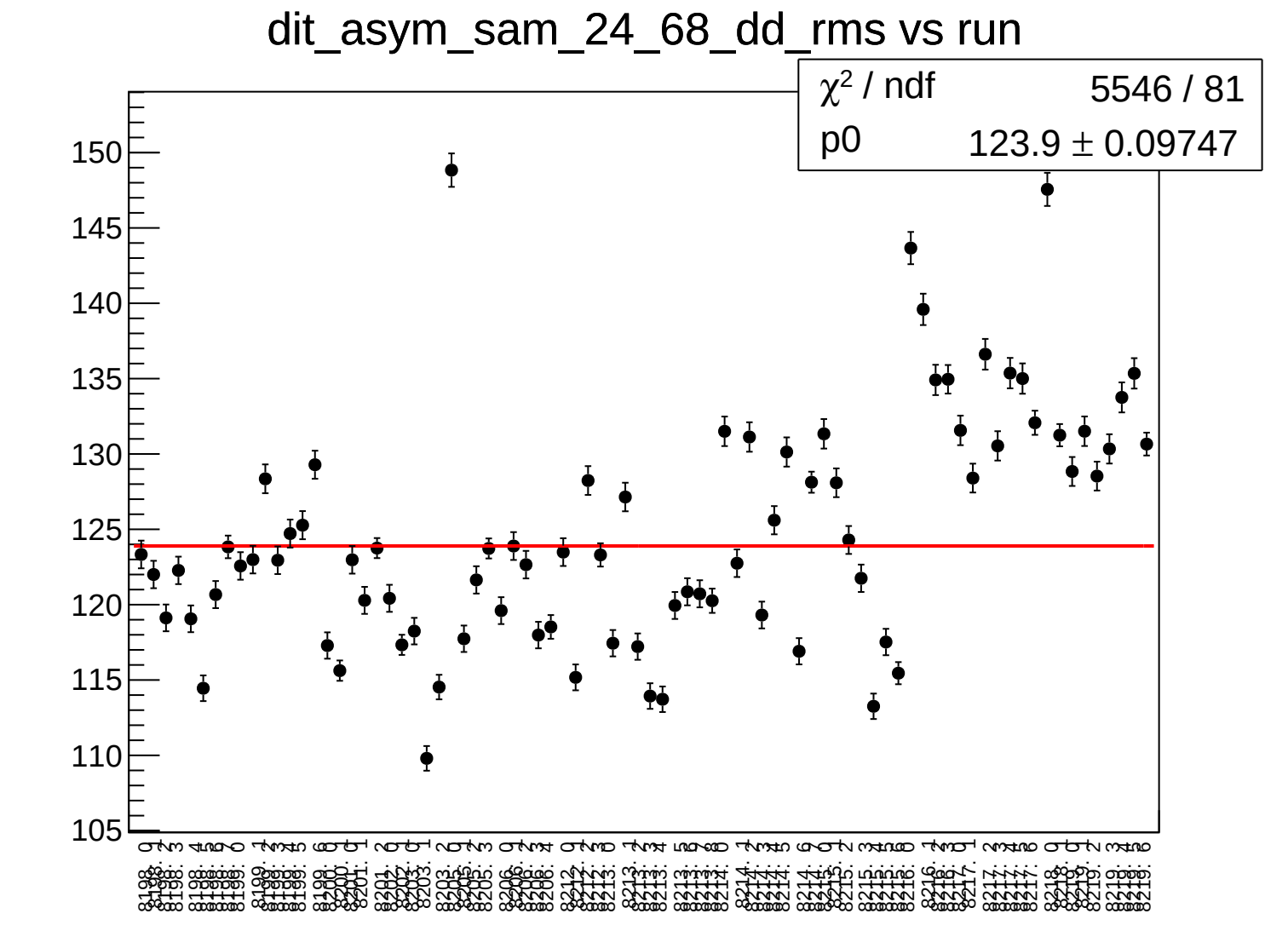

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 5969 / 81
p0 99.29 ± 0.07812
140
130
120
110
100
90

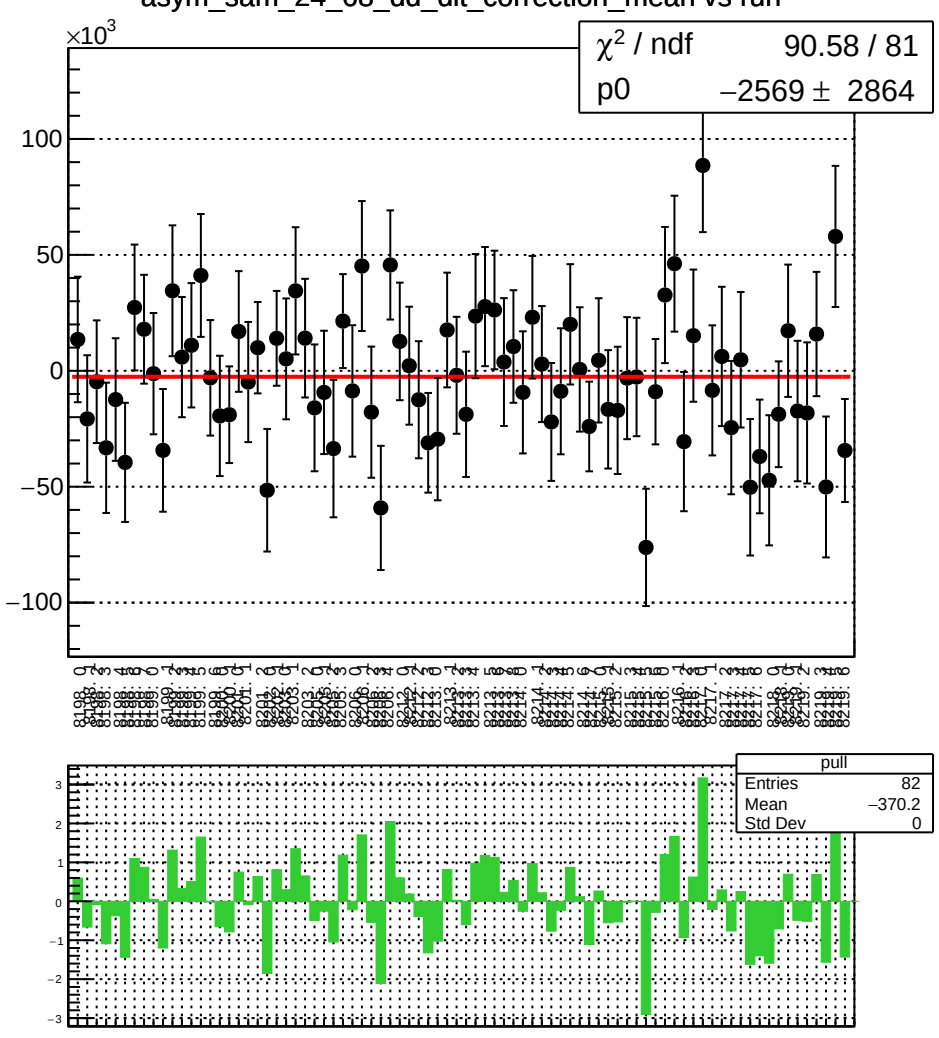

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.13 / 81
p0 −2613 ± 2809
100
50
0
−50
−100
pull
Entries 82
Mean −358.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.005119
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

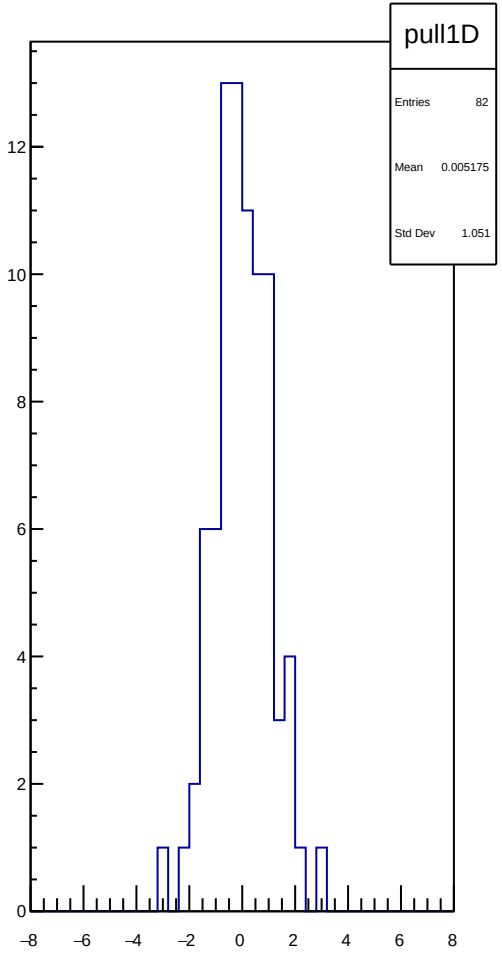

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 4541 / 81
p0 2525 ± 1.986
2800
2700
2600
2500
2400
2300

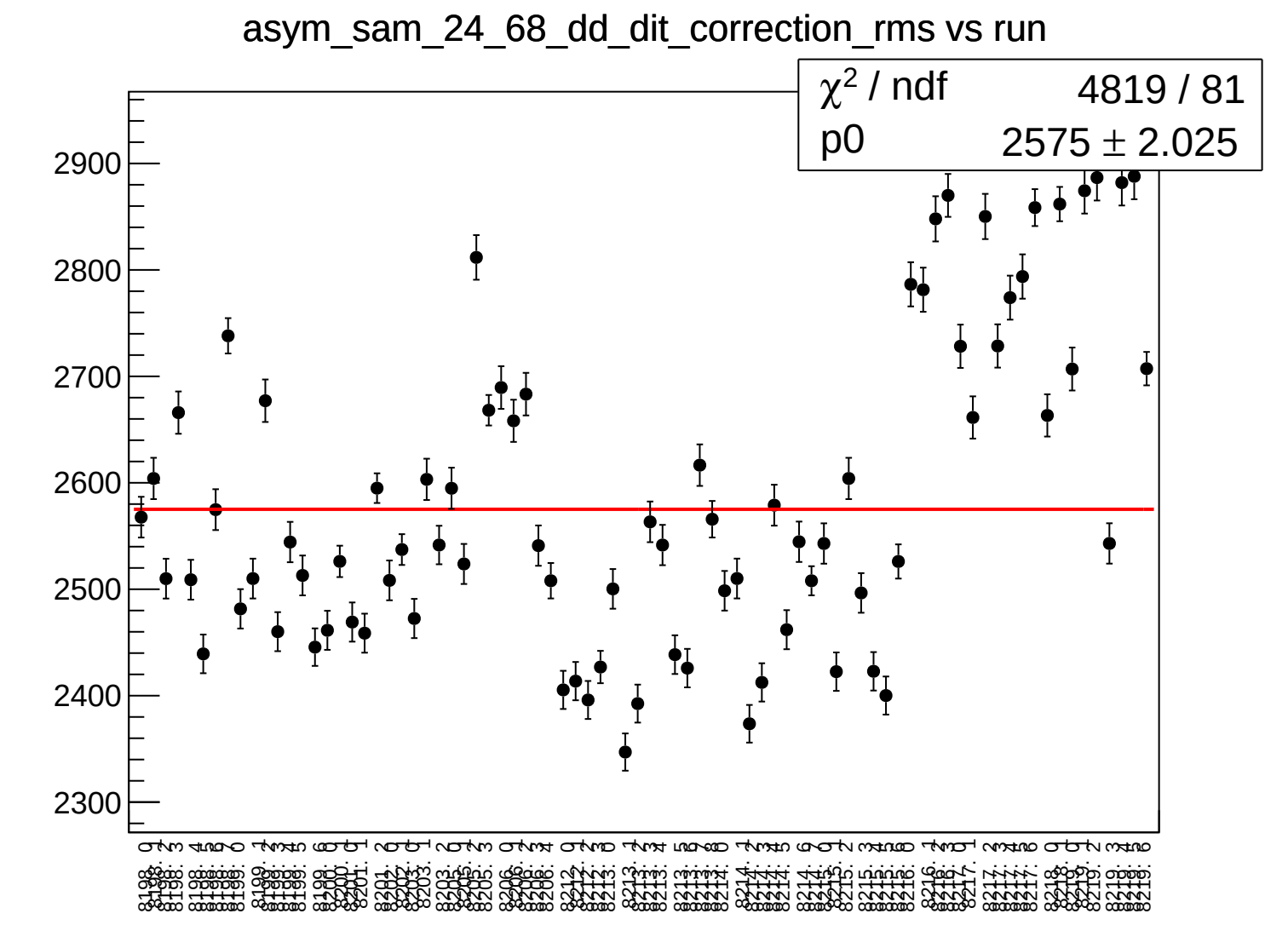

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 82.7 / 81
p0 −33.94 ± 137.8
pull
Entries 82
Mean −50.32
Std Dev 0

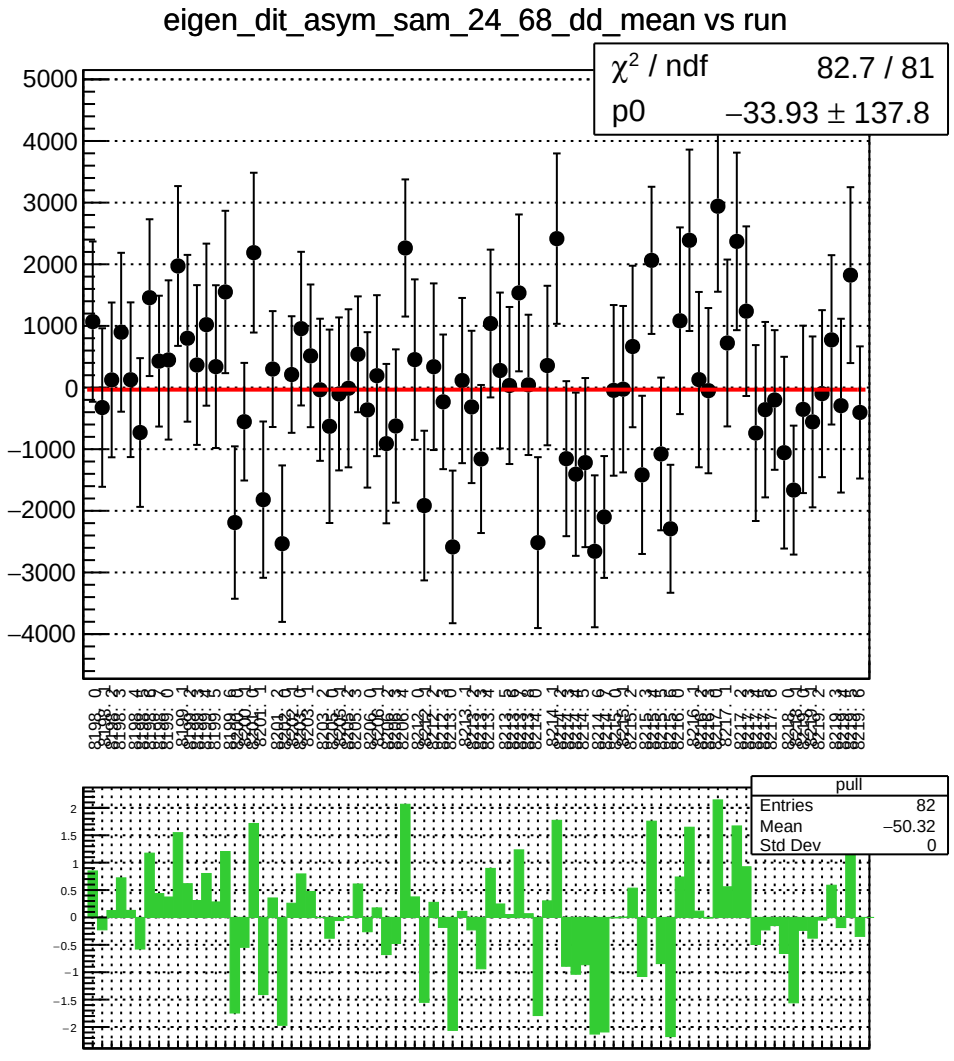

pull1D
Entries 82
Mean 0.02288
Std Dev 1.004

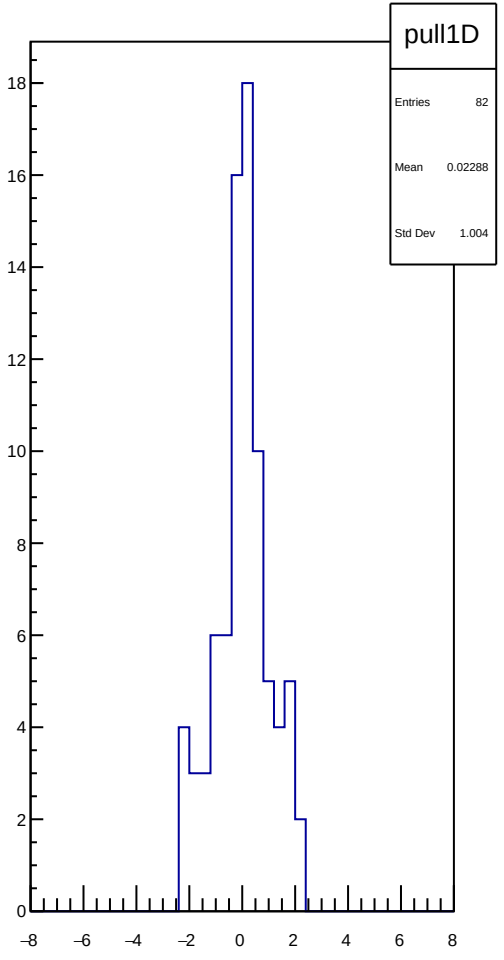

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 5546 / 81
p0 123.9 ± 0.09747
150
145
140
135
130
125
120
115
110
105

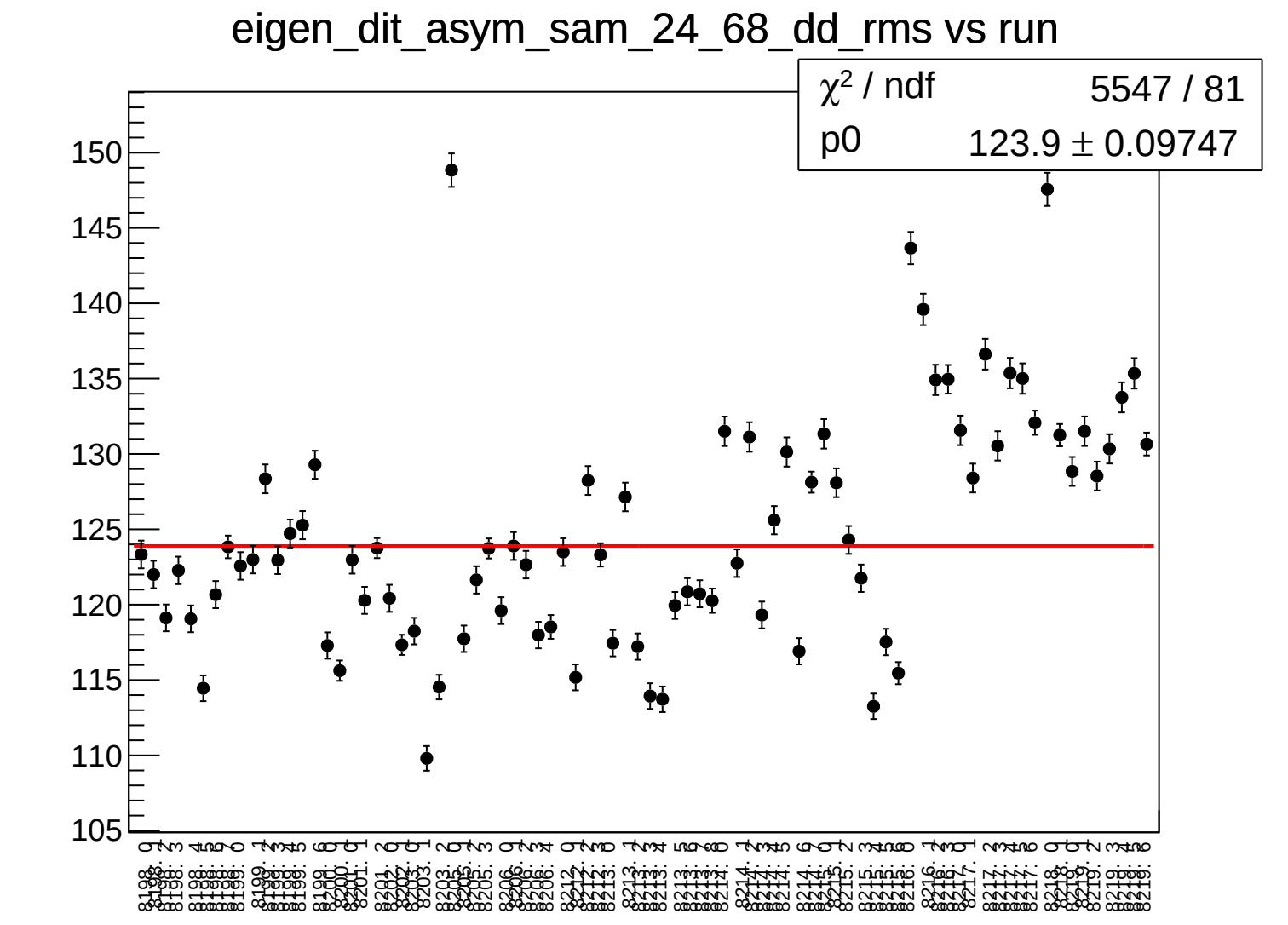

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 90.58 / 81
p0 −2569 ± 2864
100
50
0
−50
−100
pull
Entries 82
Mean −370.2
Std Dev 0
3
2
1
0
−1
−2
−3

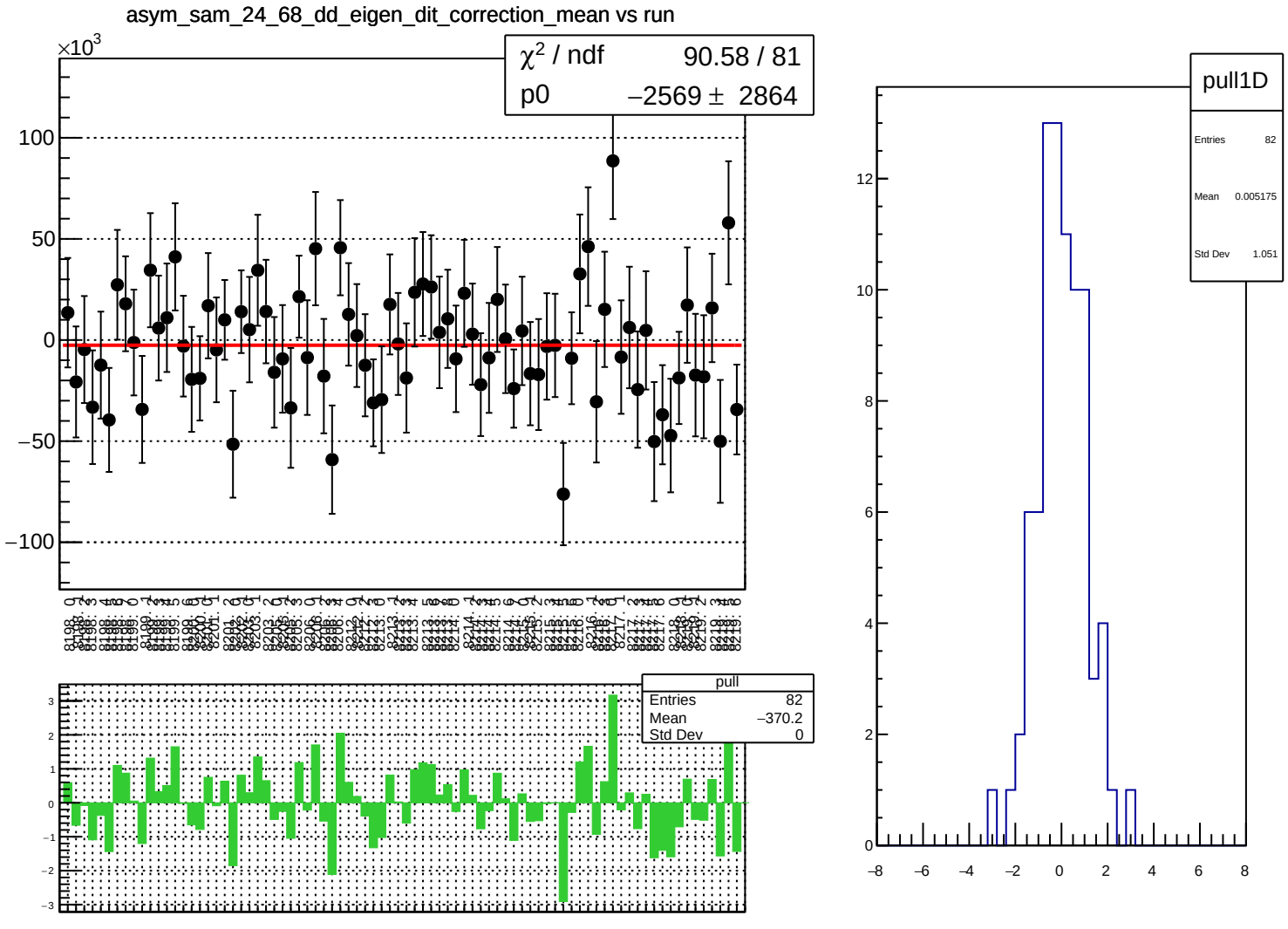

pull1D
Entries 82
Mean 0.005175
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

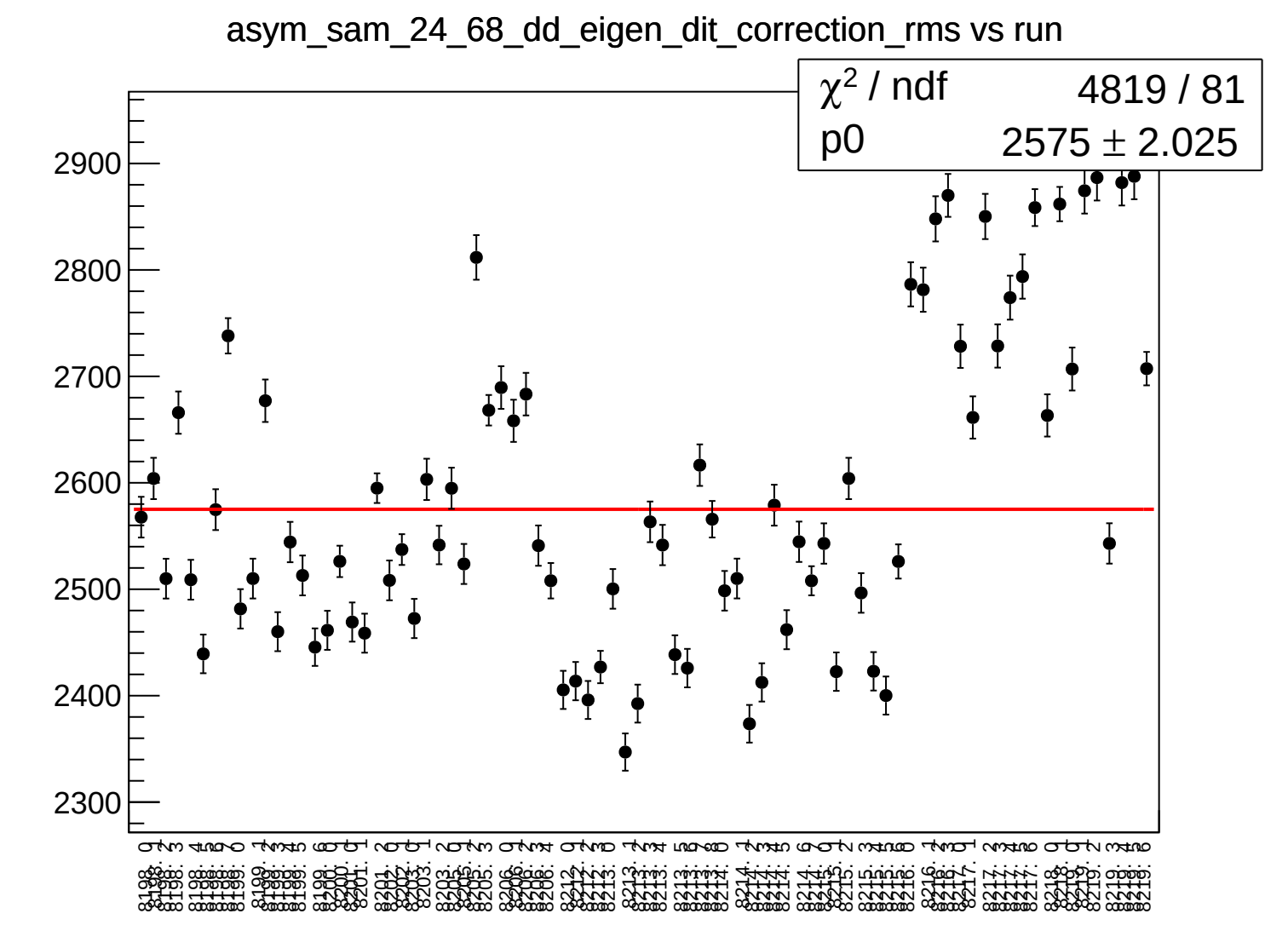

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 4819 / 81
p0 2575 ± 2.025
2900
2800
2700
2600
2500
2400
2300

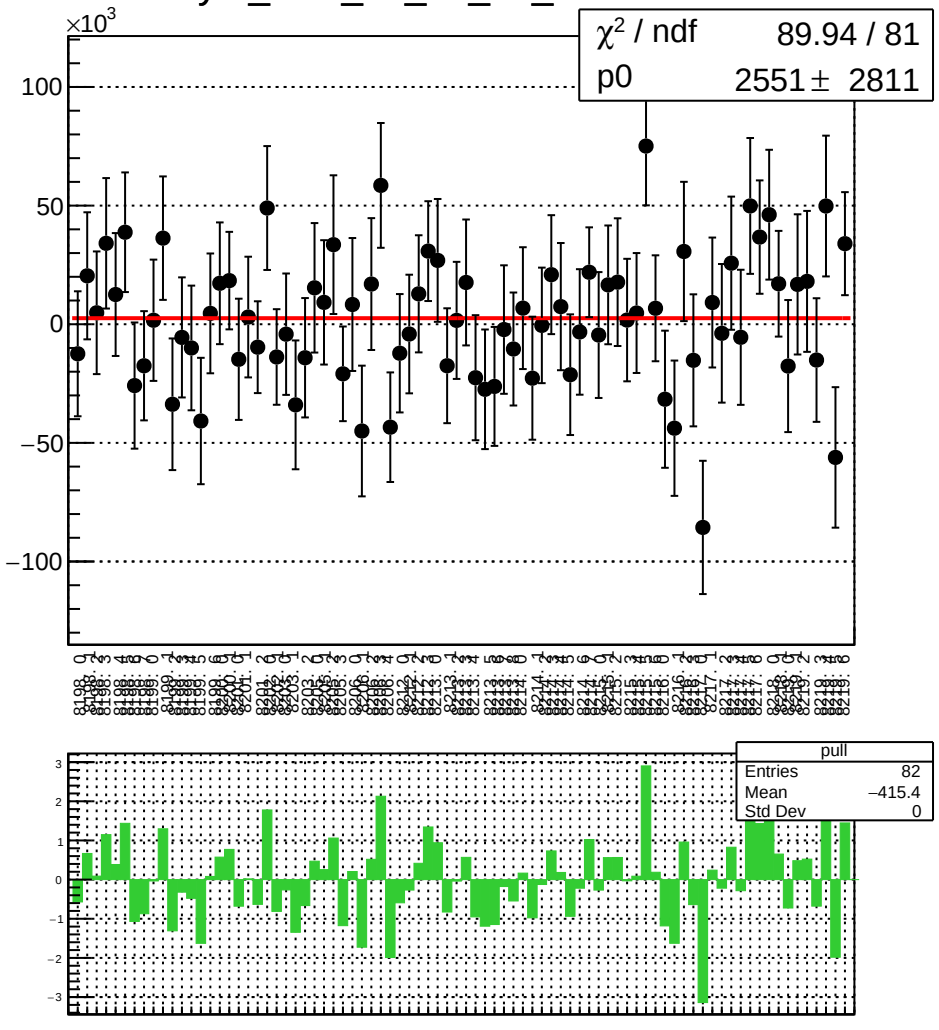

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 82.7 / 81
p0 −33.93 ± 137.8
pull
Entries 82
Mean −50.32
Std Dev 0

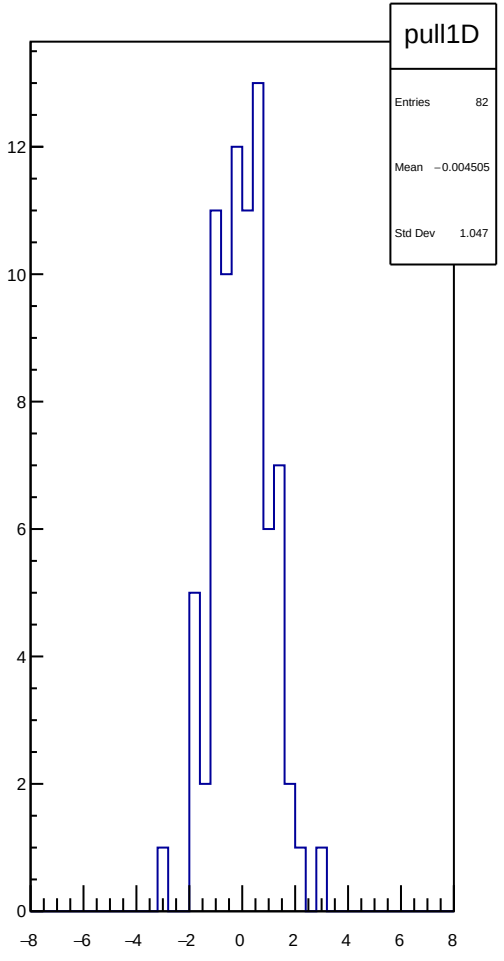

pull1D
Entries 82
Mean 0.02288
Std Dev 1.004

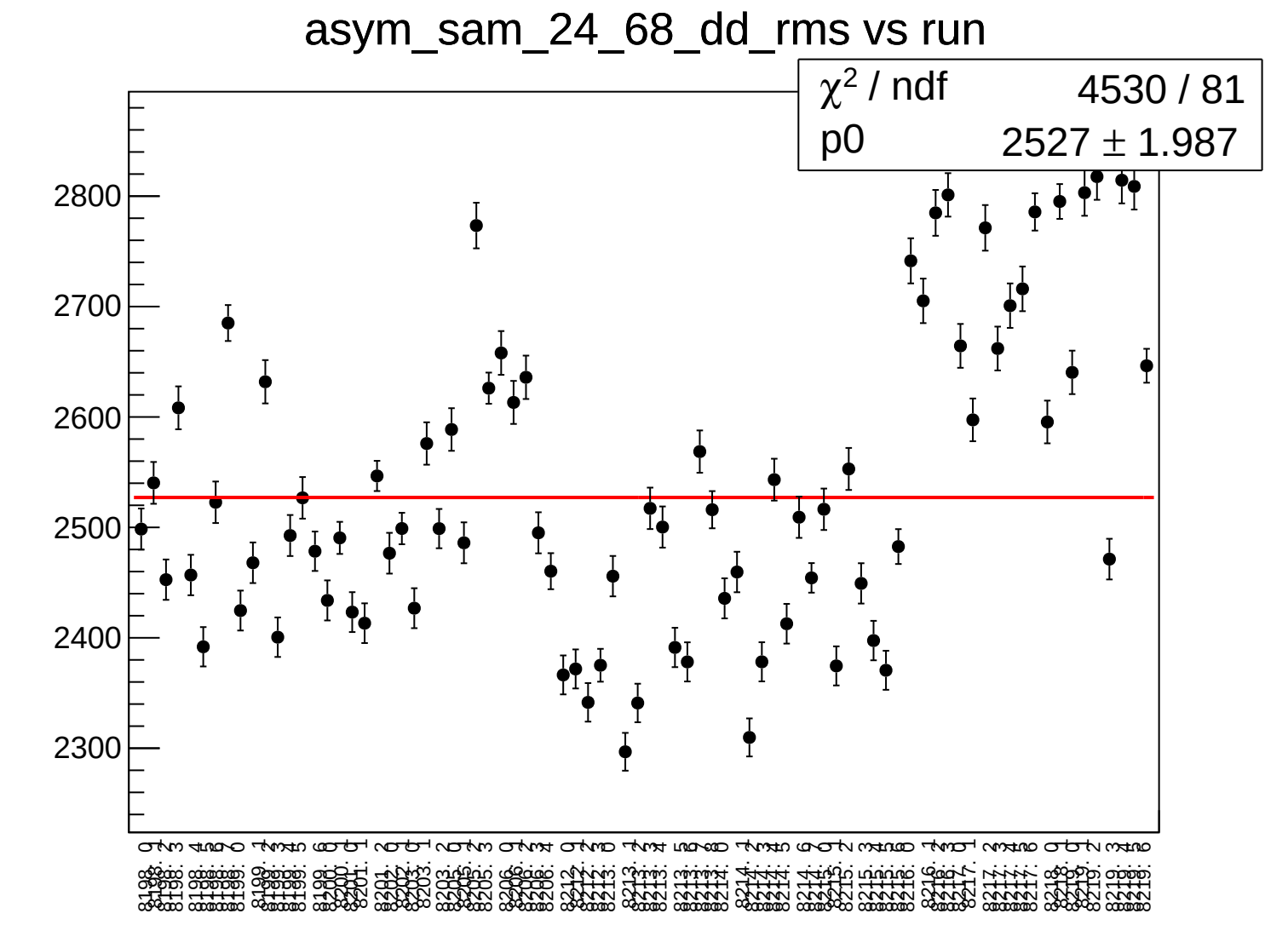

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 5547 / 81
p0 123.9 ± 0.09747
150
145
140
135
130
125
120
115
110
105

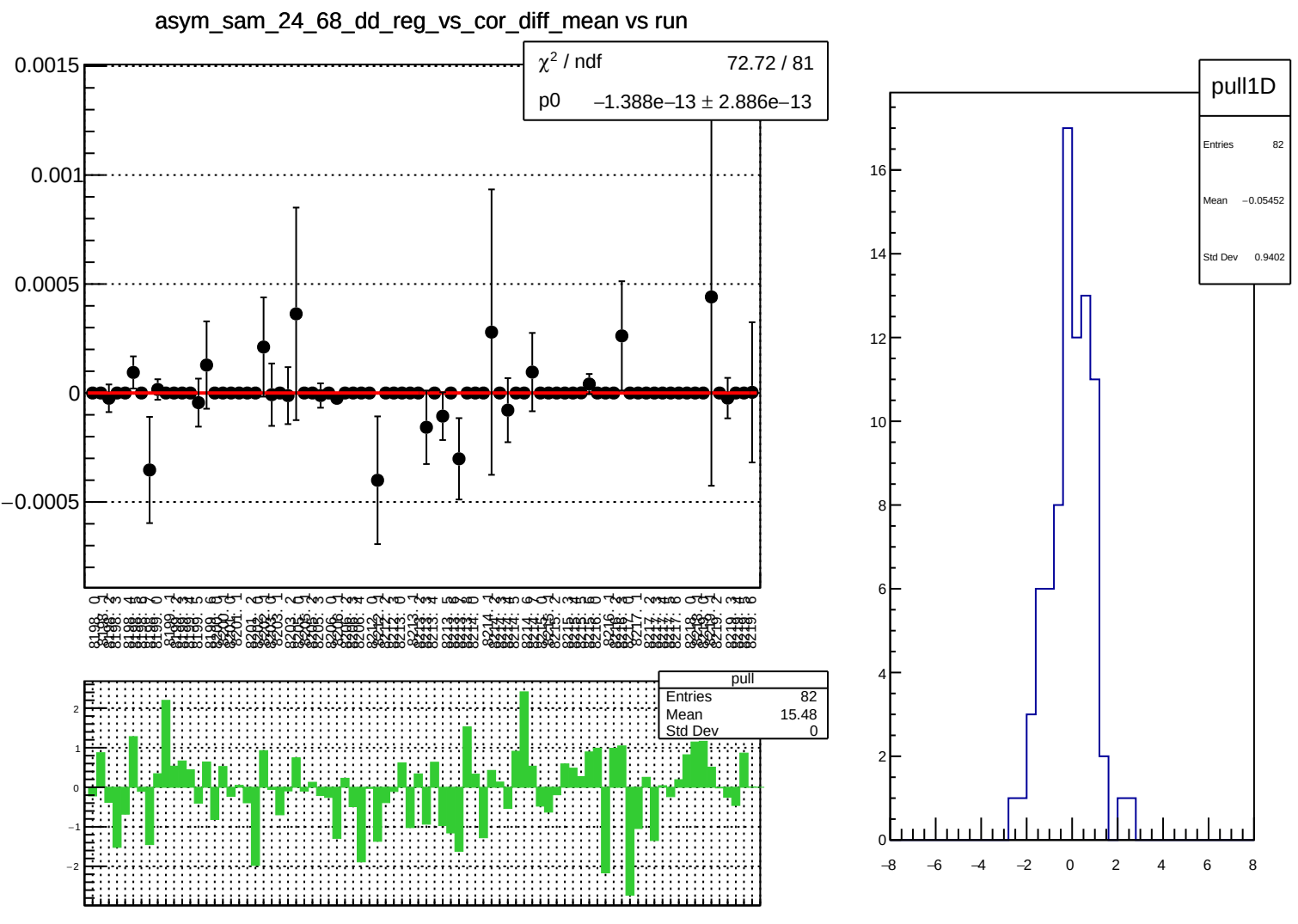

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.58 / 81
p0 −2569 ± 2864
100
50
0
−50
−100
pull
Entries 82
Mean −370.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.005175
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

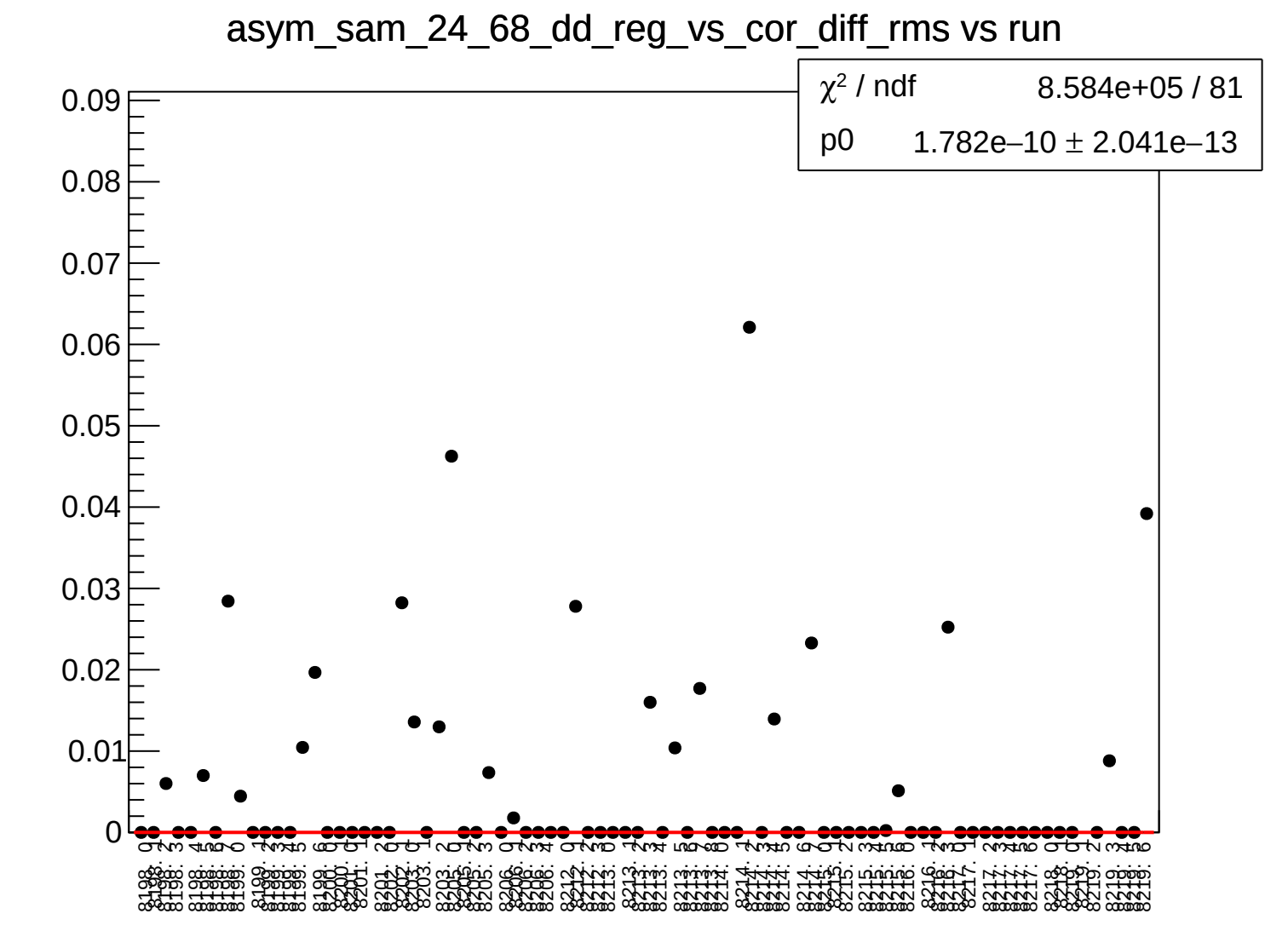

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 4819 / 81
p0 2575 ± 2.025
2900
2800
2700
2600
2500
2400
2300

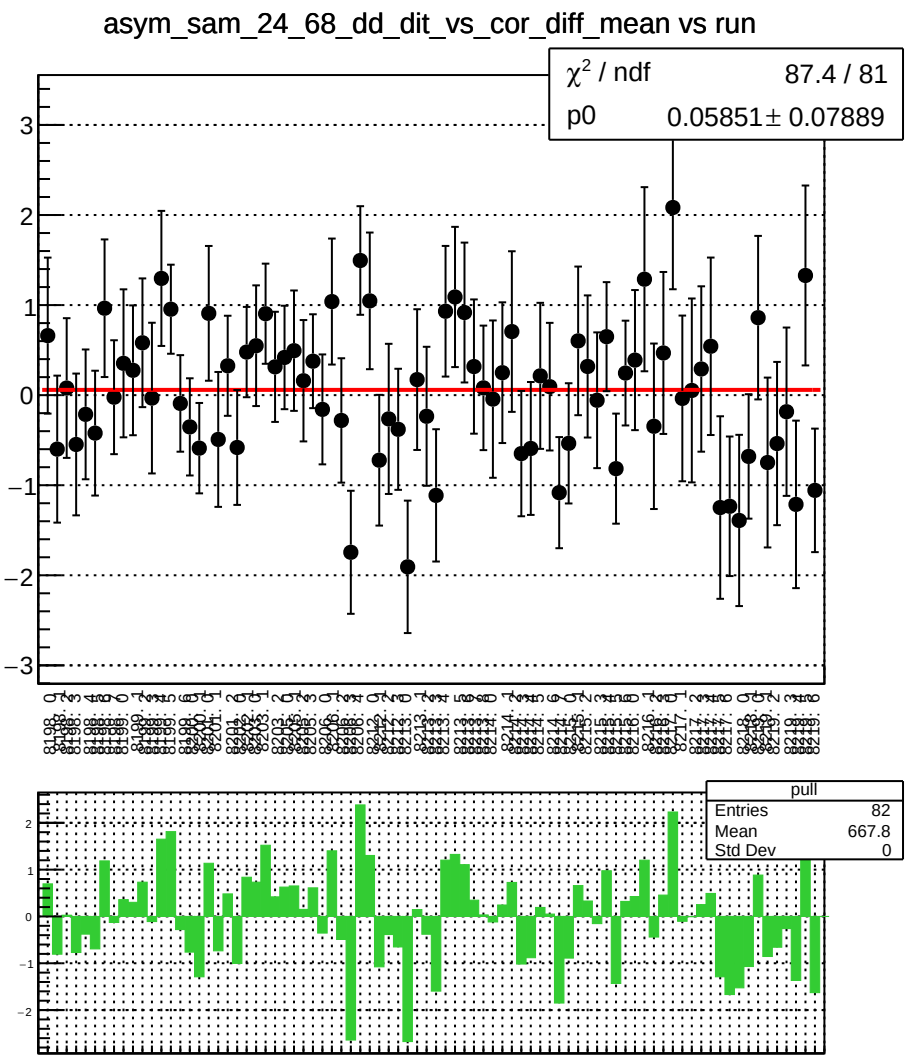

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 89.94 / 81
p0 2551 ± 2811
100
50
0
−50
−100
pull
Entries 82
Mean −415.4
Std Dev 0
3
2
1
0
−1
−2
−3

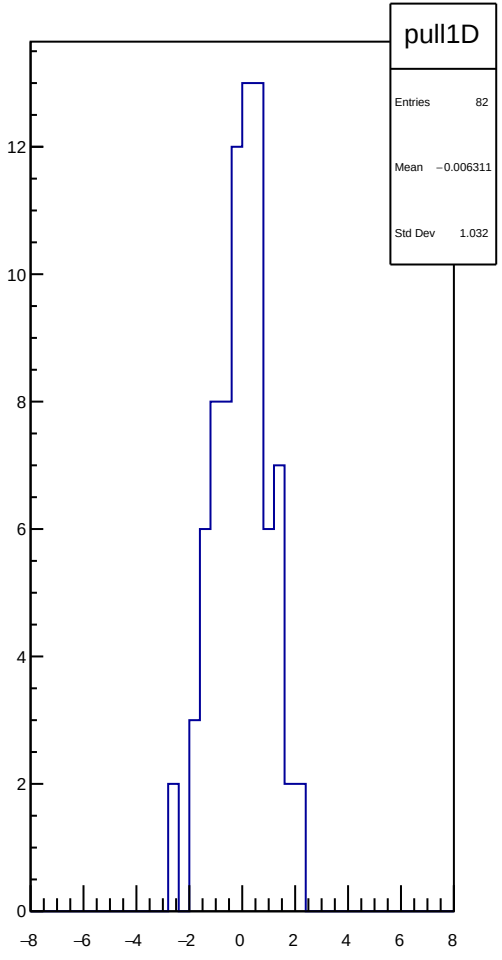

pull1D
Entries 82
Mean −0.004505
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

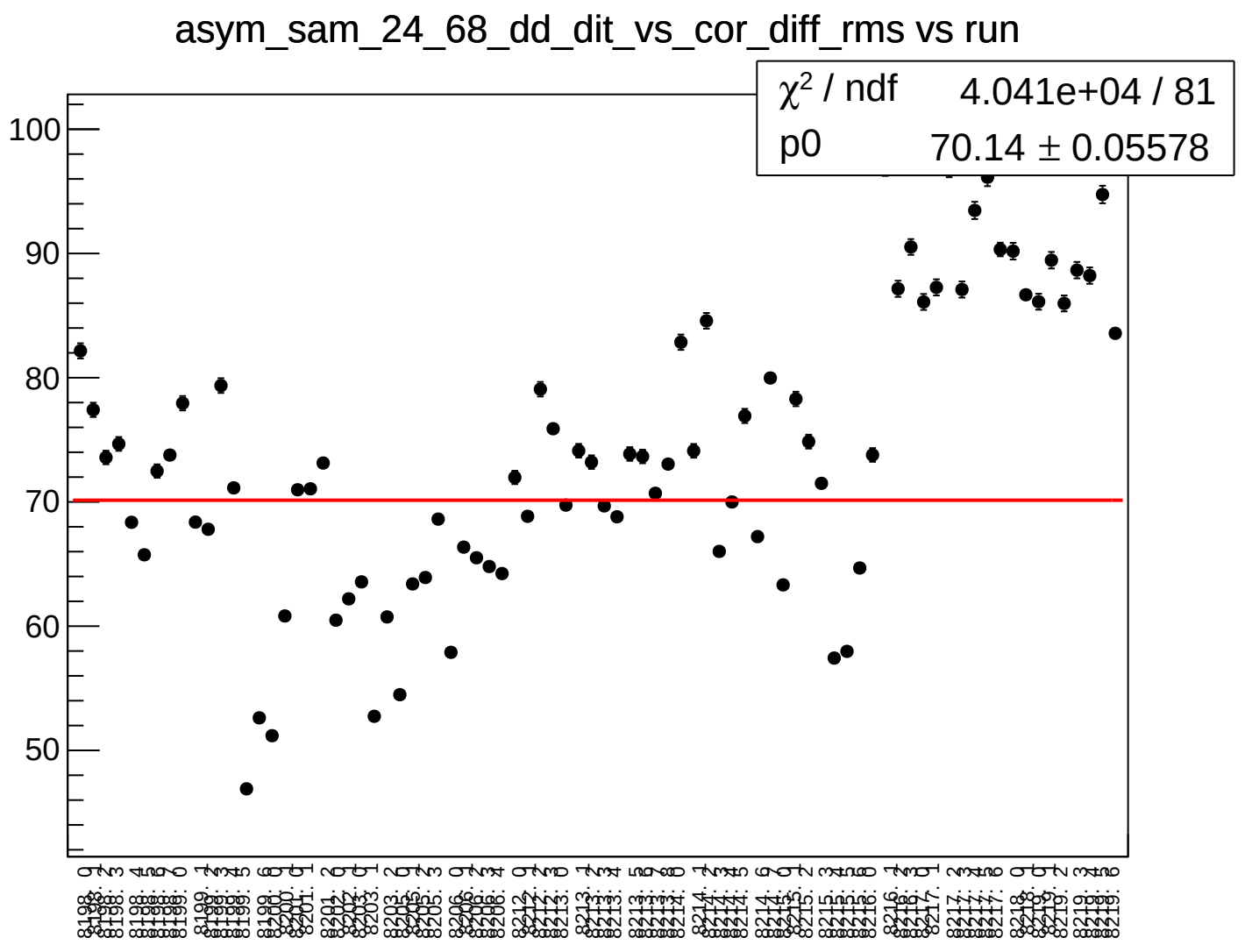

asym_sam_24_68_dd_rms vs run
χ² / ndf 4530 / 81
p0 2527 ± 1.987
2800
2700
2600
2500
2400
2300

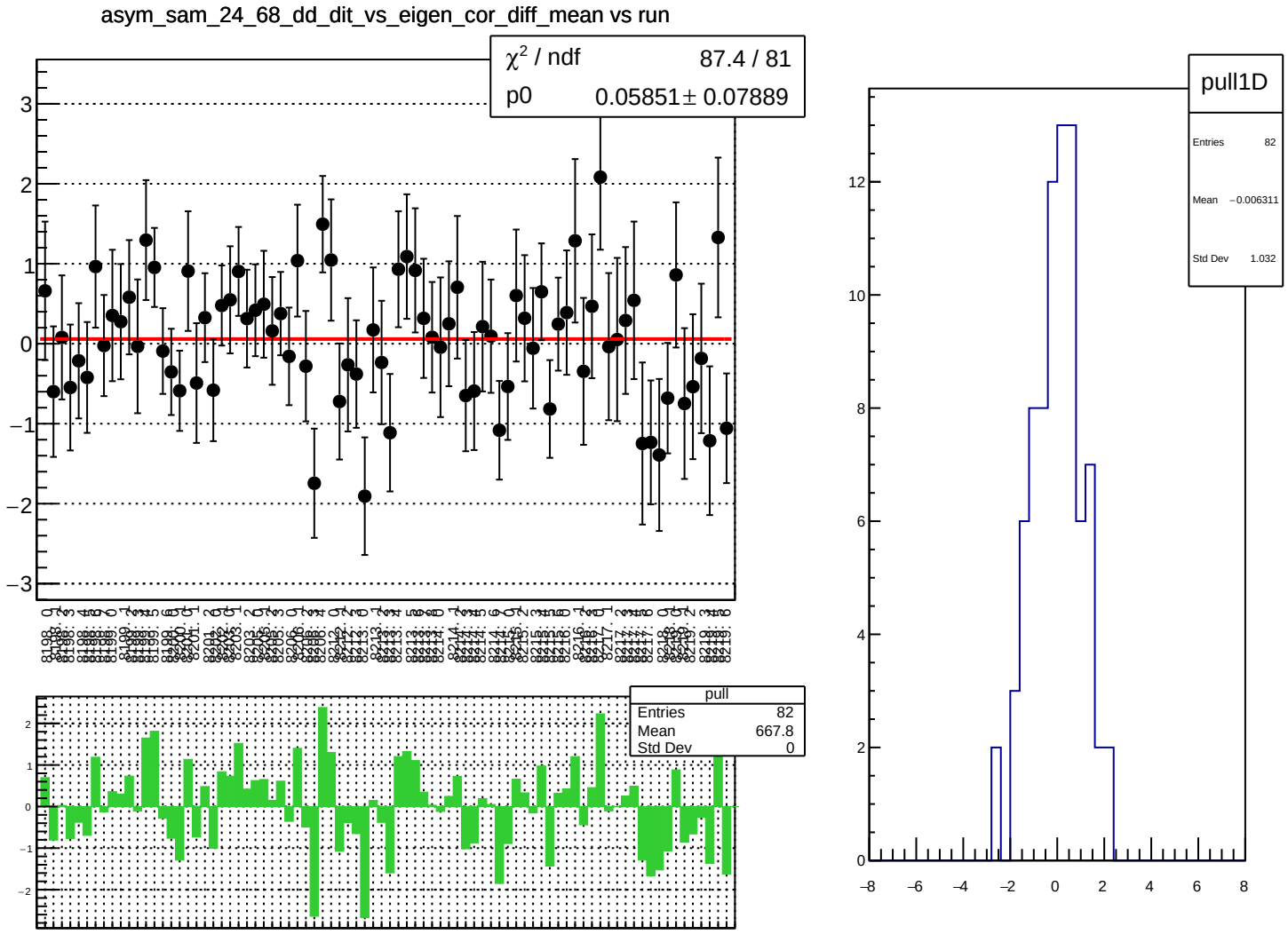

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.72 / 81
p0 −1.388e−13 ± 2.886e−13
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 82
Mean 15.48
Std Dev 0
pull1D
Entries 82
Mean −0.05452
Std Dev 0.9402

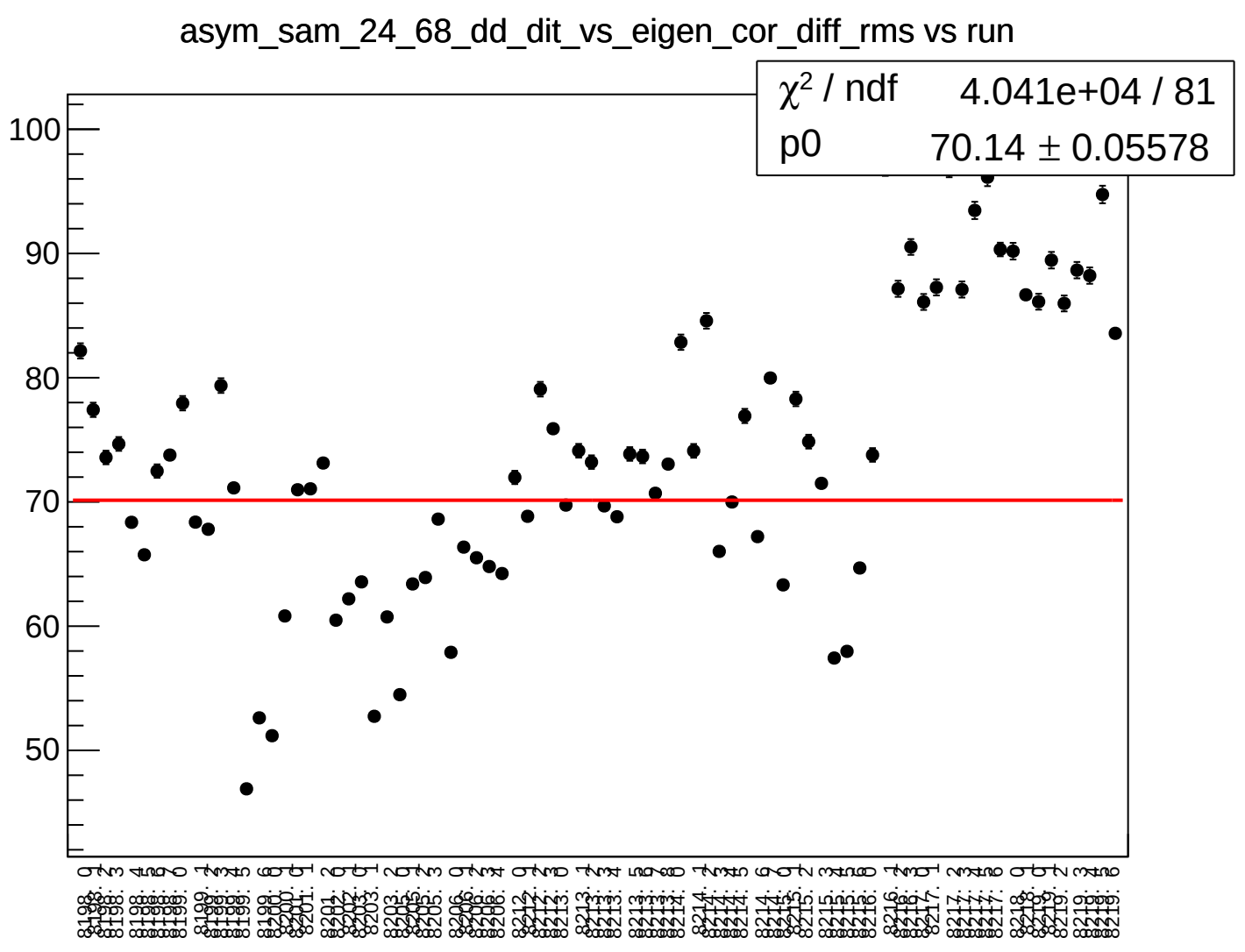

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.584e+05 / 81
p0 1.782e−10 ± 2.041e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

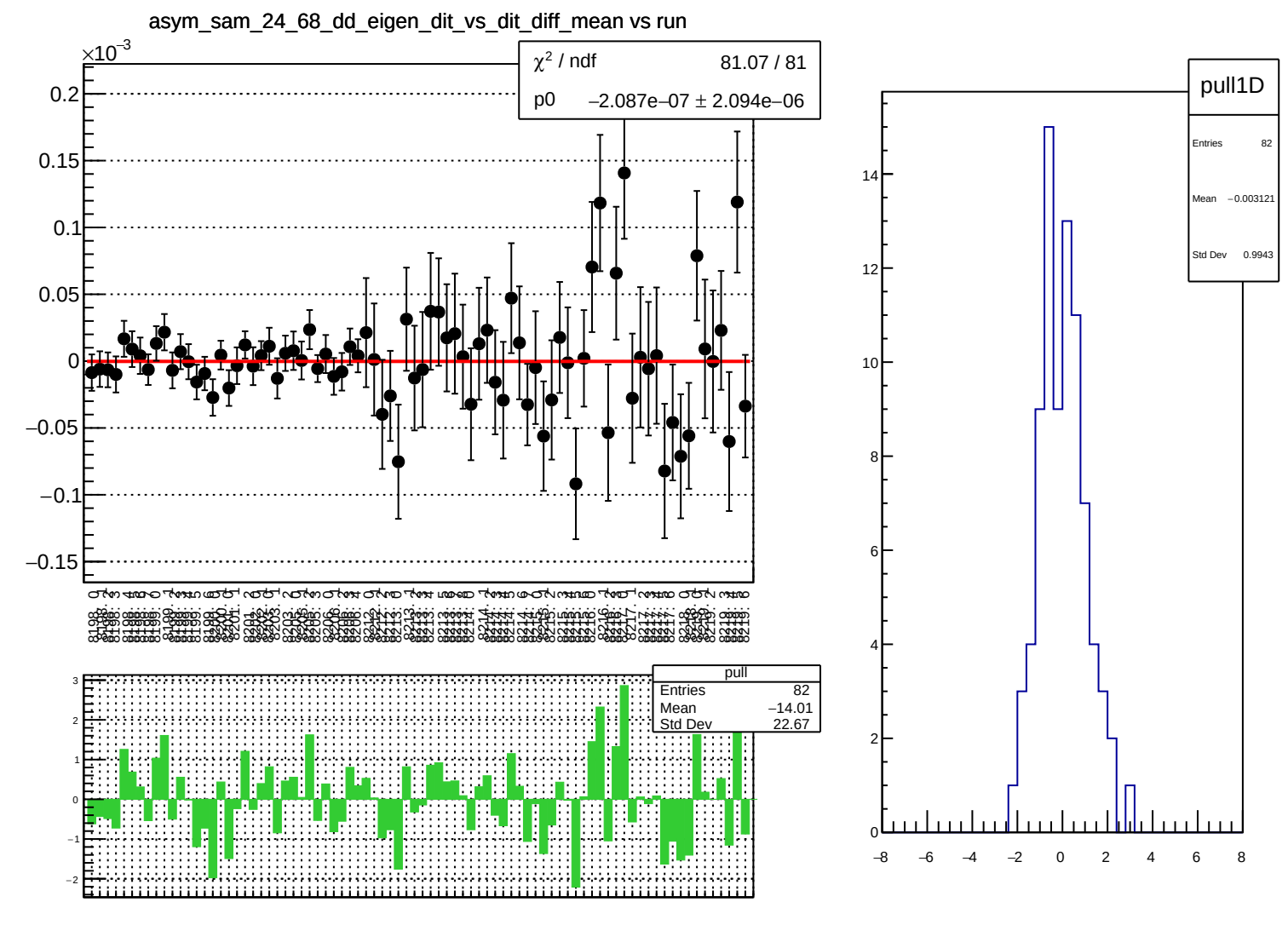

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.4 / 81
p0 0.05851 ± 0.07889
pull
Entries 82
Mean 667.8
Std Dev 0

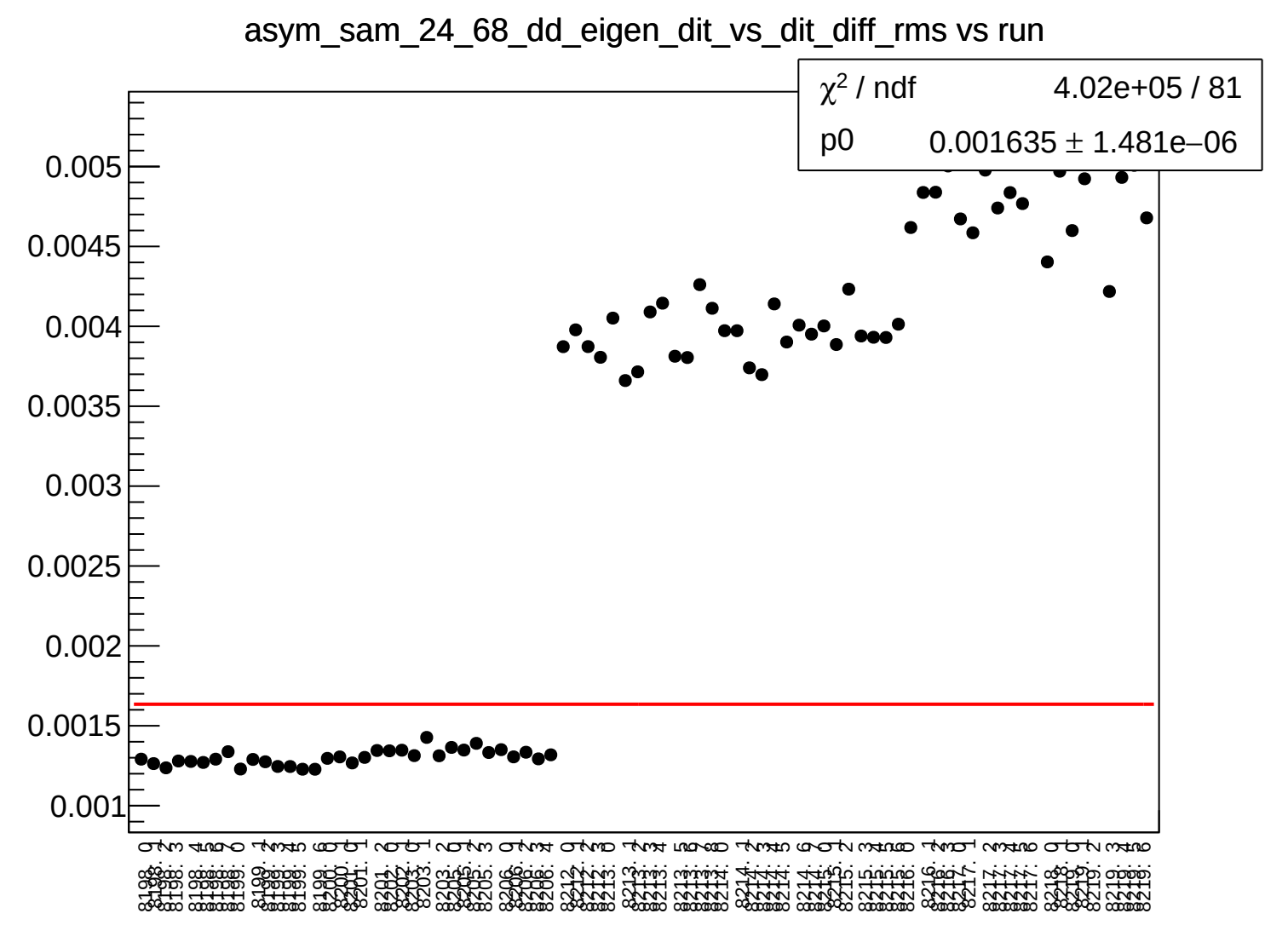

pull1D
Entries 82
Mean −0.006311
Std Dev 1.032

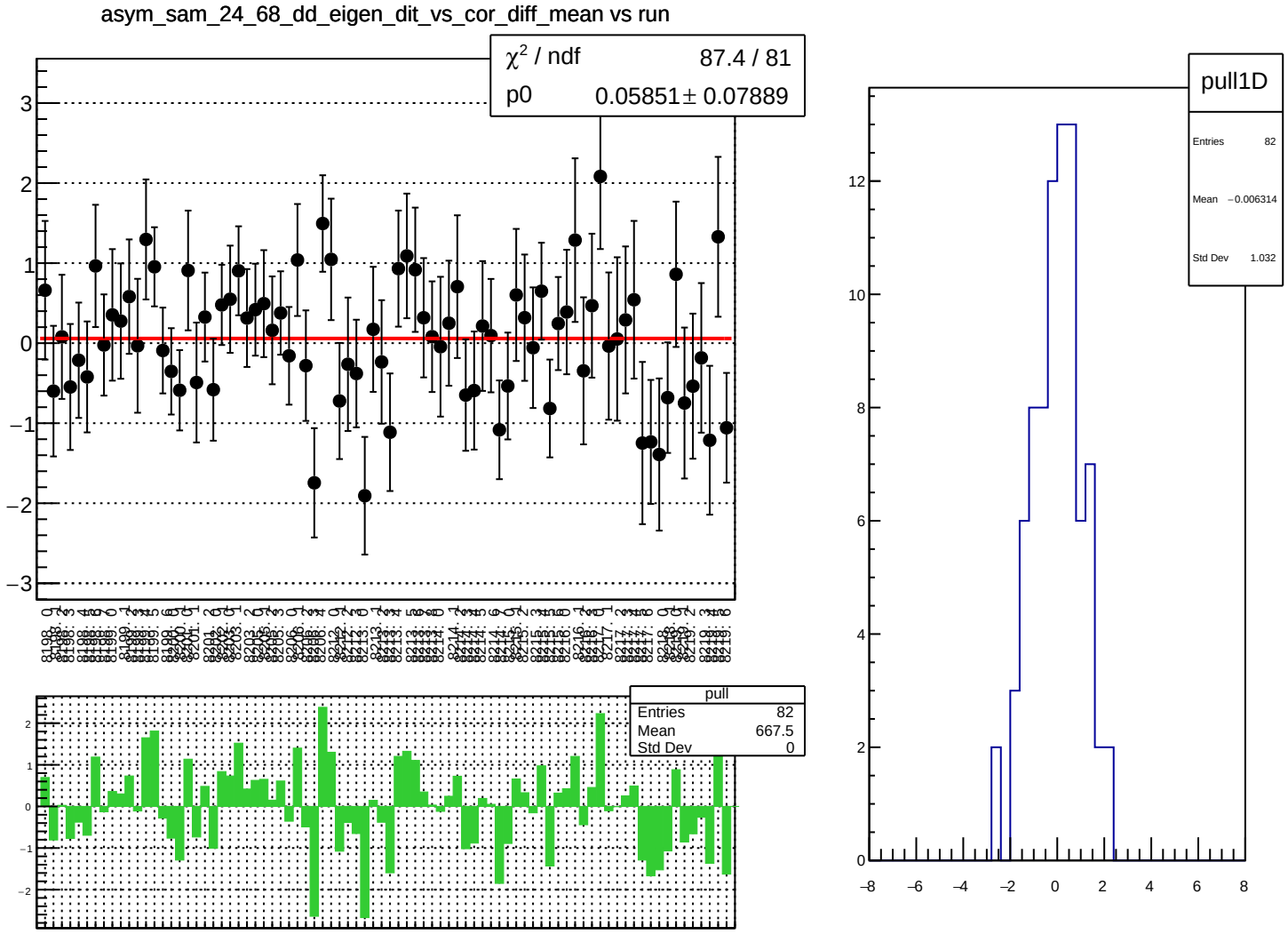

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.041e+04 / 81
p0 70.14 ± 0.05578
100
90
80
70
60
50

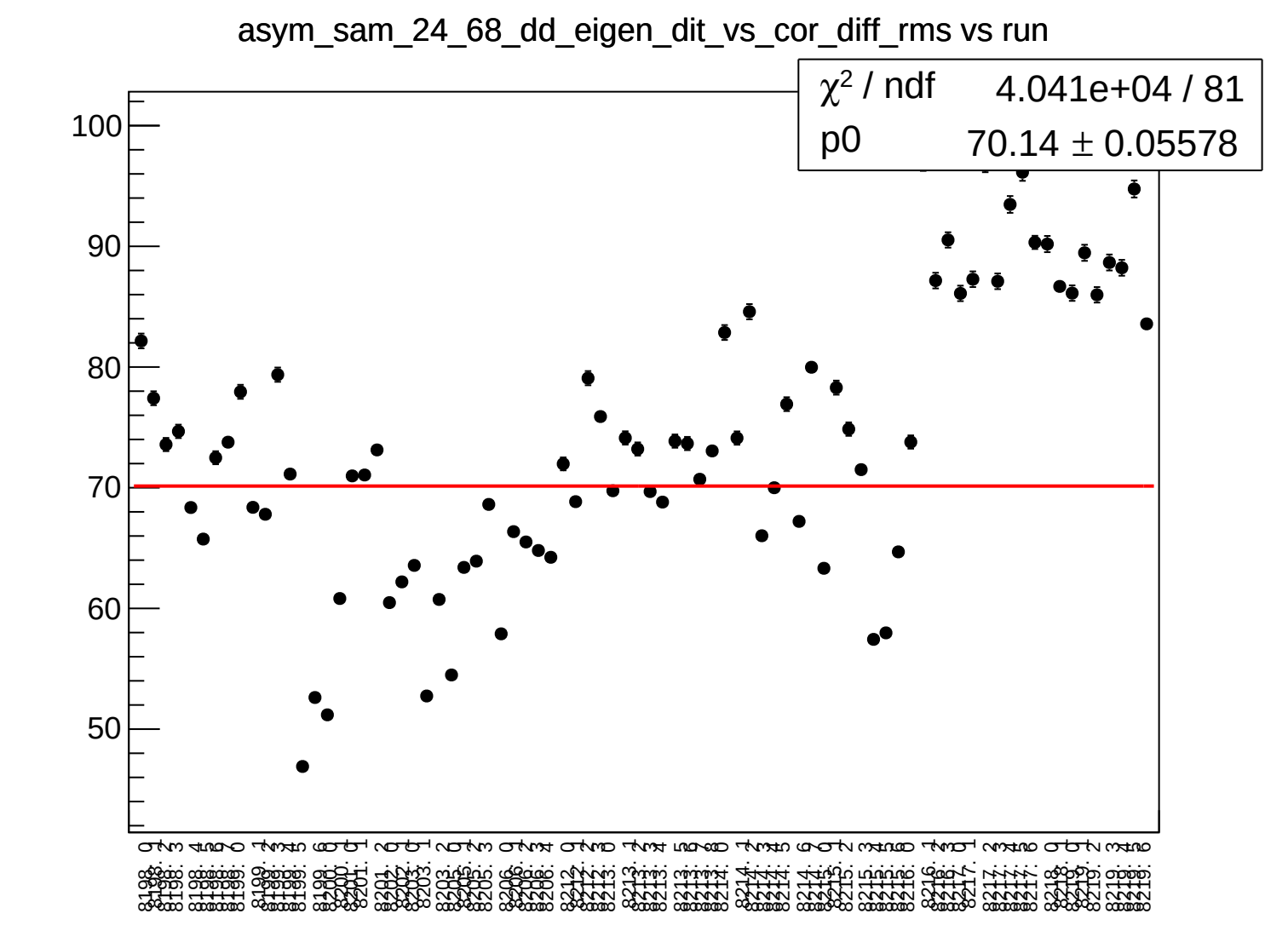

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.4 / 81
p0 0.05851 ± 0.07889
pull
Entries 82
Mean 667.8
Std Dev 0
pull1D
Entries 82
Mean −0.006311
Std Dev 1.032

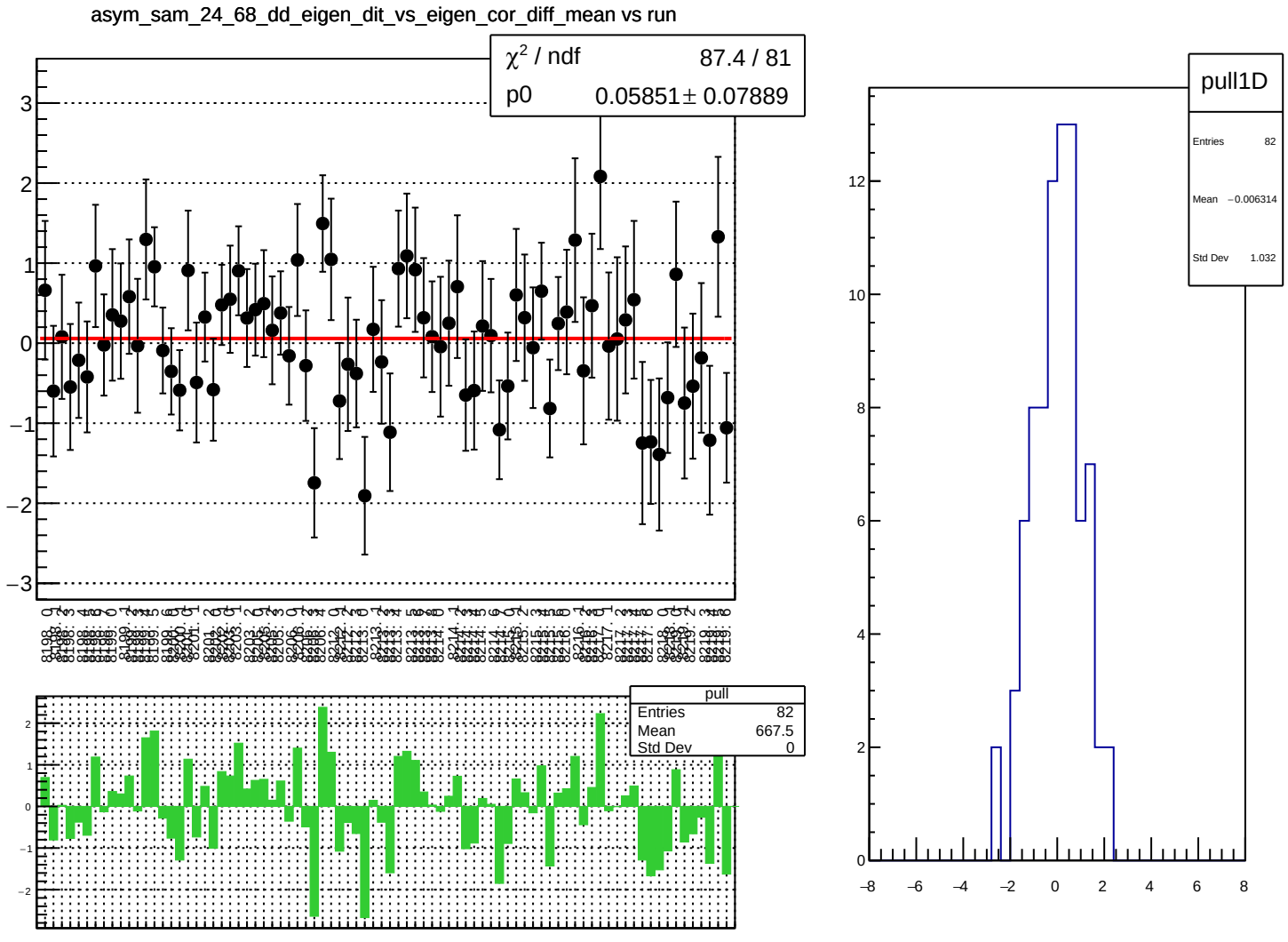

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.041e+04 / 81
p0 70.14 ± 0.05578
100
90
80
70
60
50

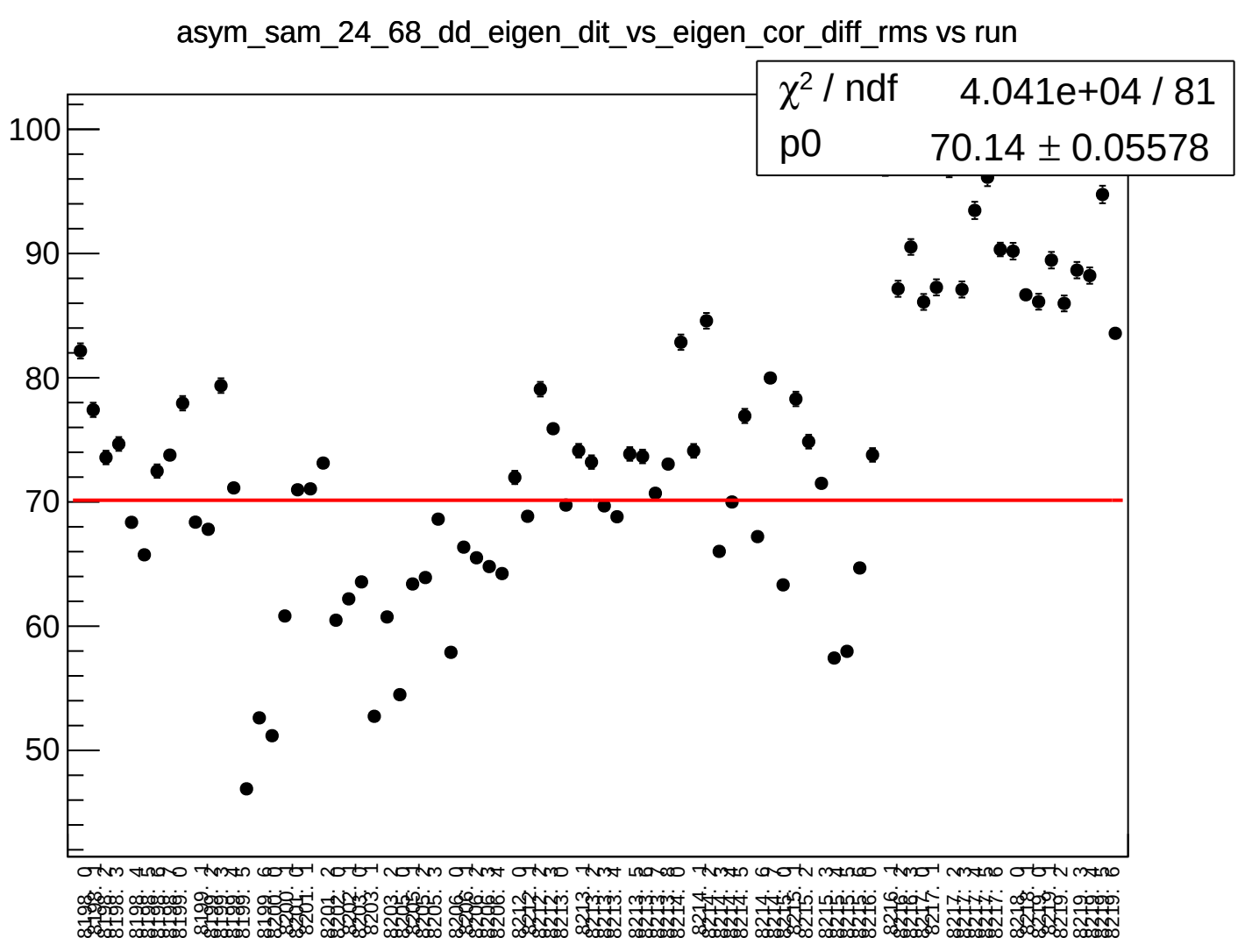

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.07 / 81
p0 −2.087e−07 ± 2.094e−06
pull
Entries 82
Mean −14.01
Std Dev 22.67
pull1D
Entries 82
Mean −0.003121
Std Dev 0.9943

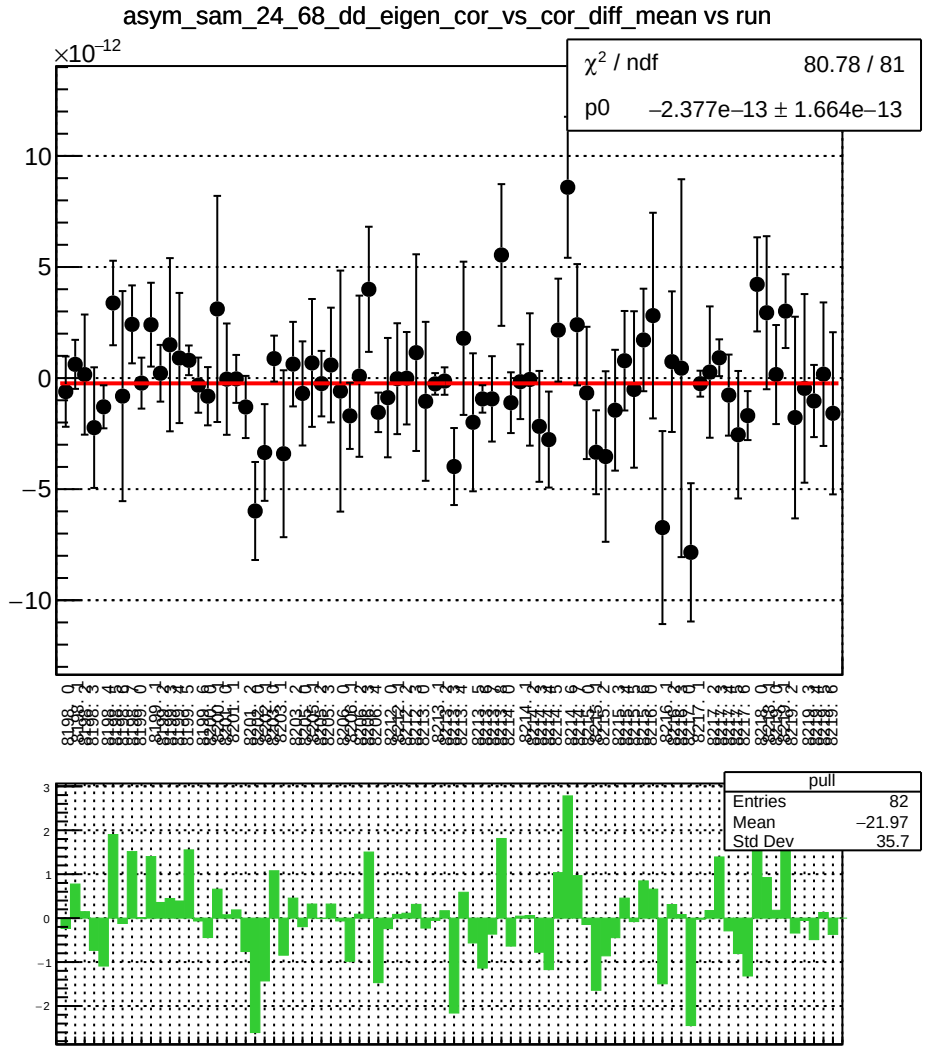

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.02e+05 / 81
p0 0.001635 ± 1.481e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

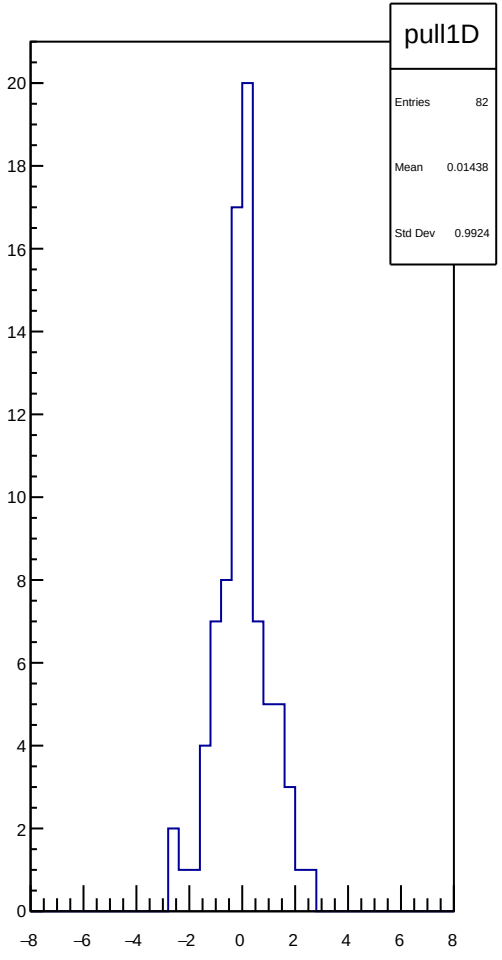

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.4 / 81
p0 0.05851 ± 0.07889
pull
Entries 82
Mean 667.5
Std Dev 0
pull1D
Entries 82
Mean −0.006314
Std Dev 1.032

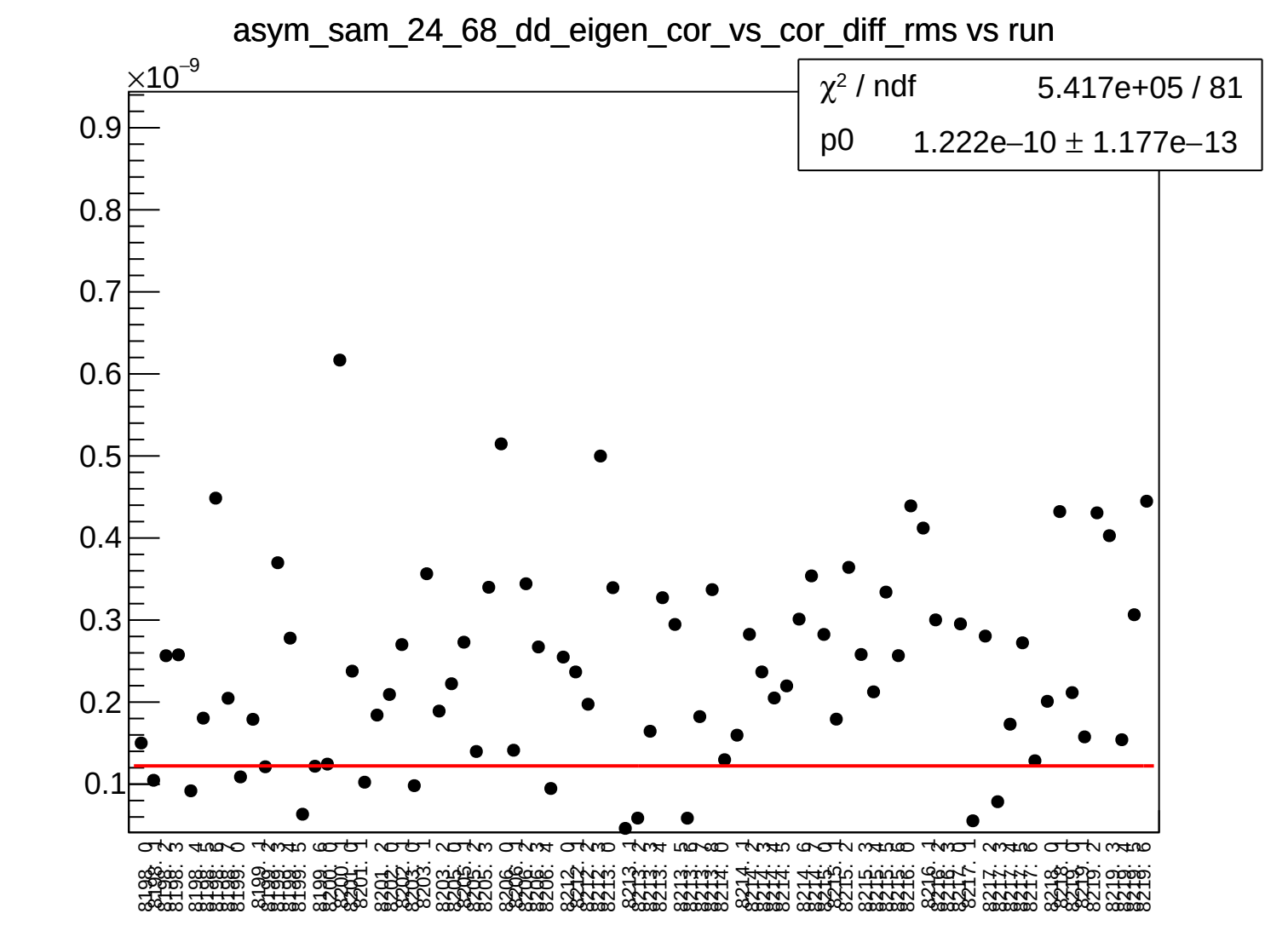

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.041e+04 / 81
p0 70.14 ± 0.05578
100
90
80
70
60
50

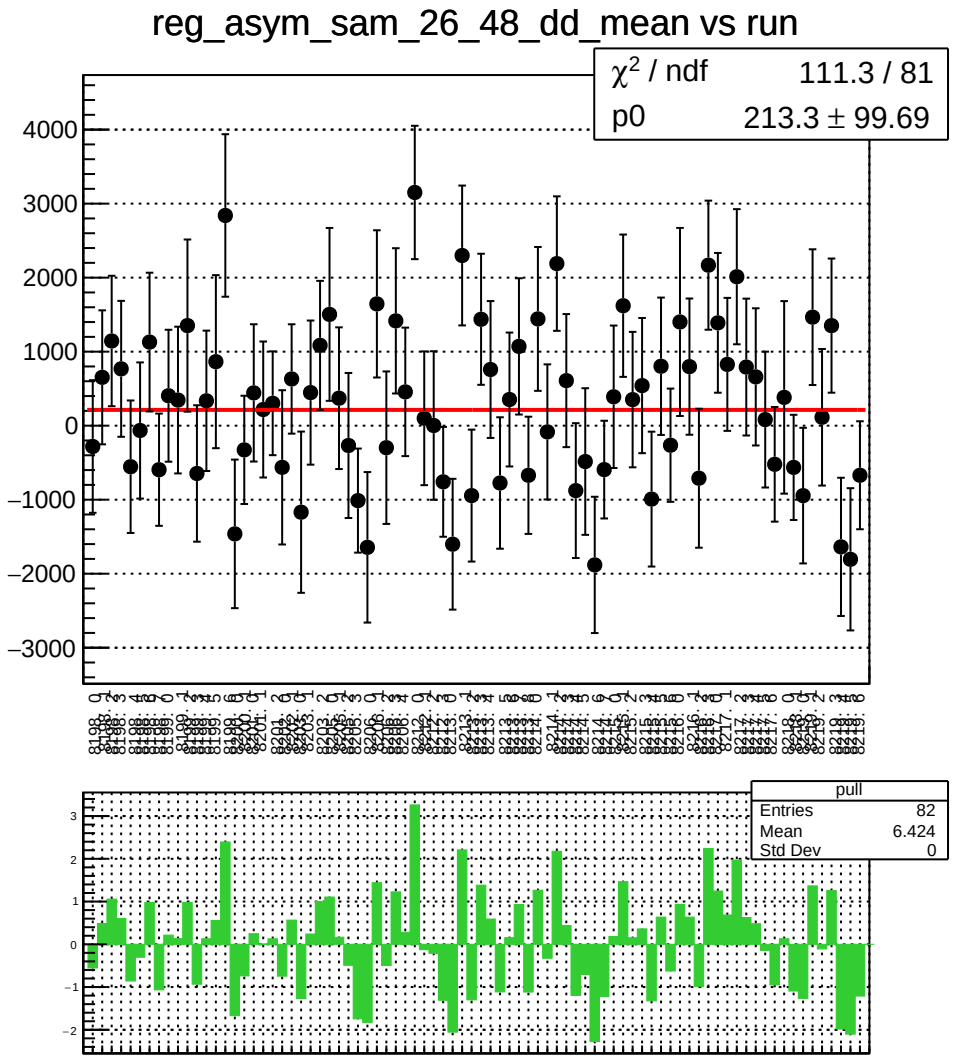

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.4 / 81
p0 0.05851 ± 0.07889
pull
Entries 82
Mean 667.5
Std Dev 0
pull1D
Entries 82
Mean −0.006314
Std Dev 1.032

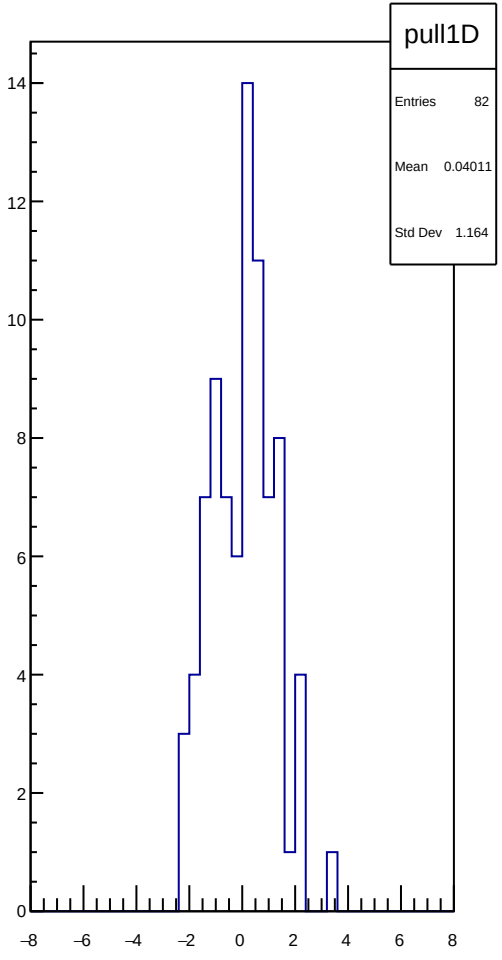

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.041e+04 / 81
p0 70.14 ± 0.05578
100
90
80
70
60
50

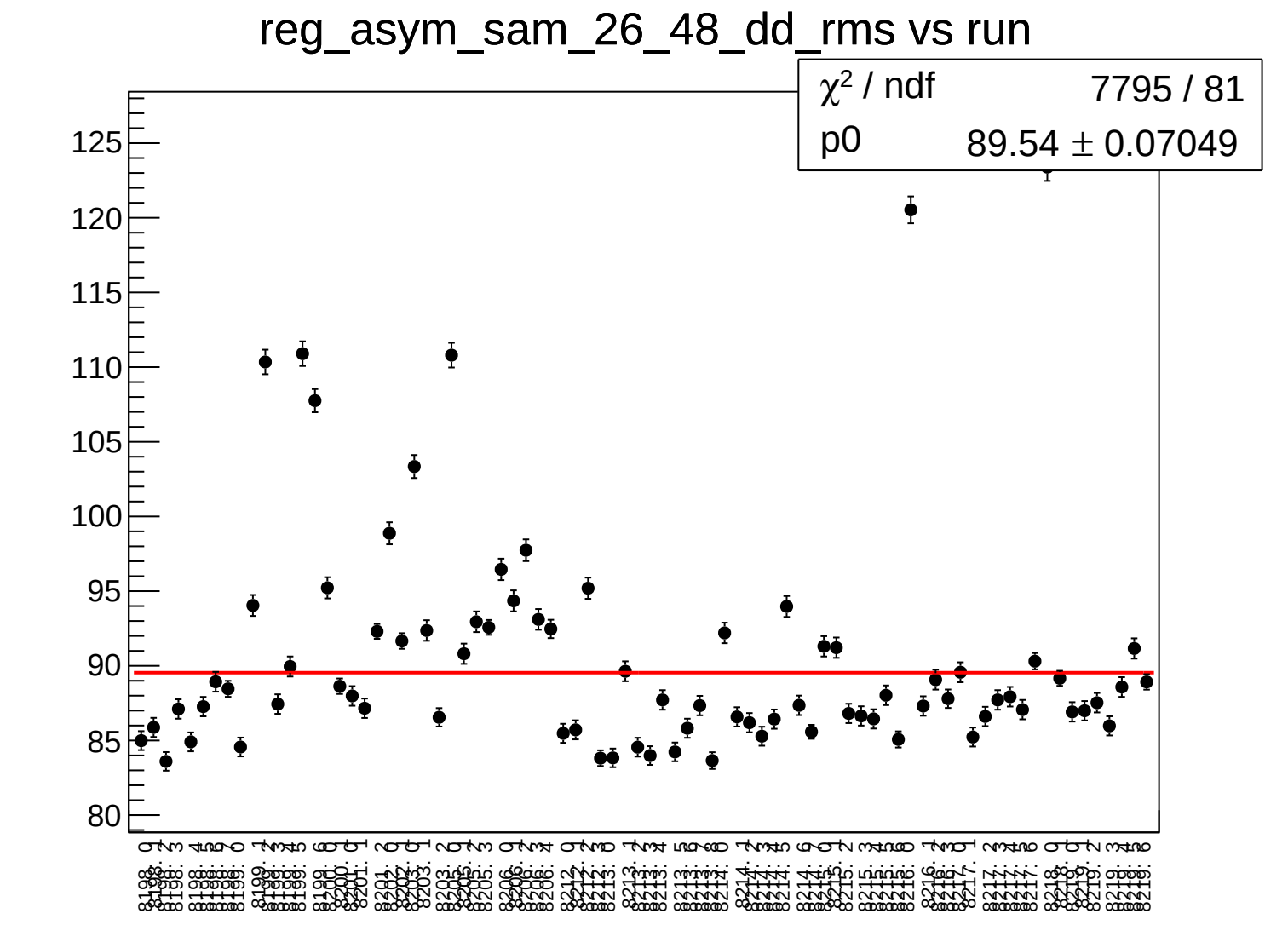

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.78 / 81
p0 −2.377e−13 ± 1.664e−13
pull
Entries 82
Mean −21.97
Std Dev 35.7

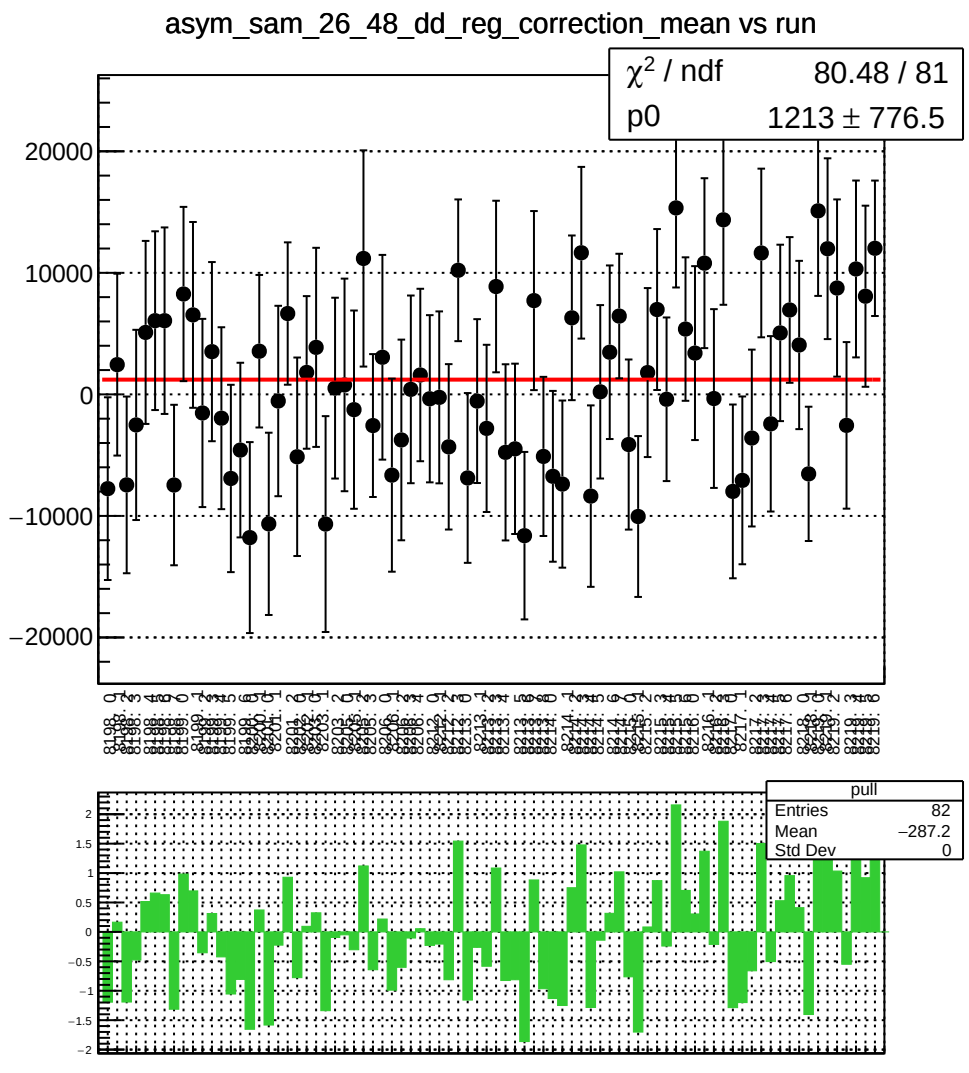

pull1D
Entries 82
Mean 0.01438
Std Dev 0.9924

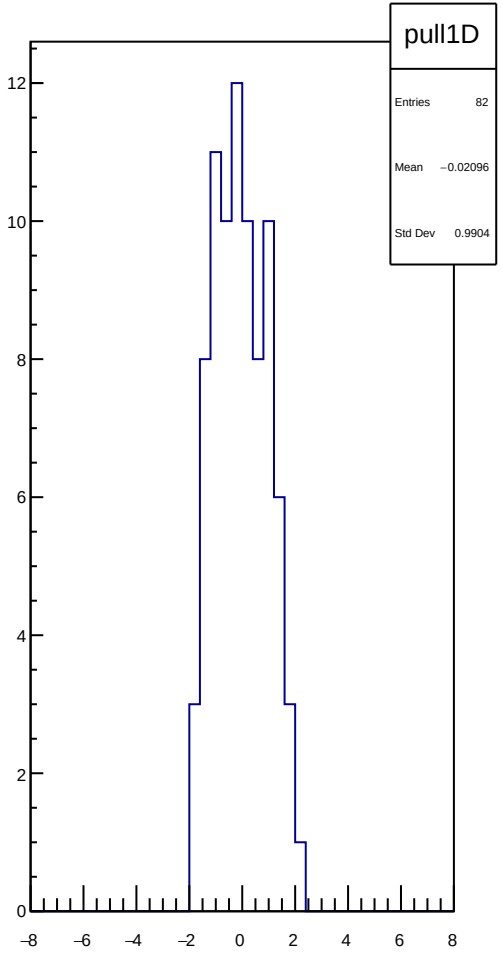

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.417e+05 / 81
p0 1.222e−10 ± 1.177e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

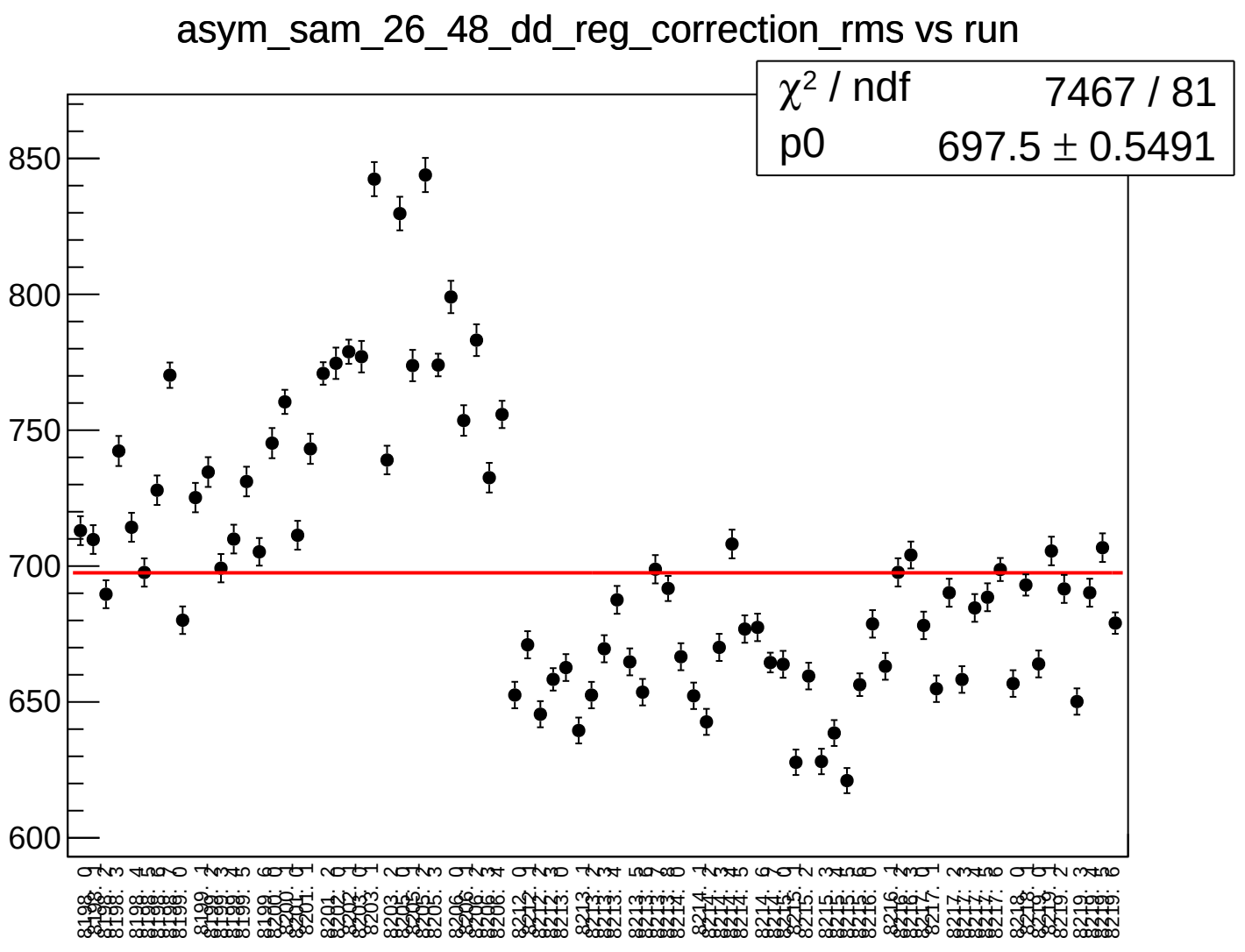

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 111.3 / 81
p0 213.3 ± 99.69
pull
Entries 82
Mean 6.424
Std Dev 0

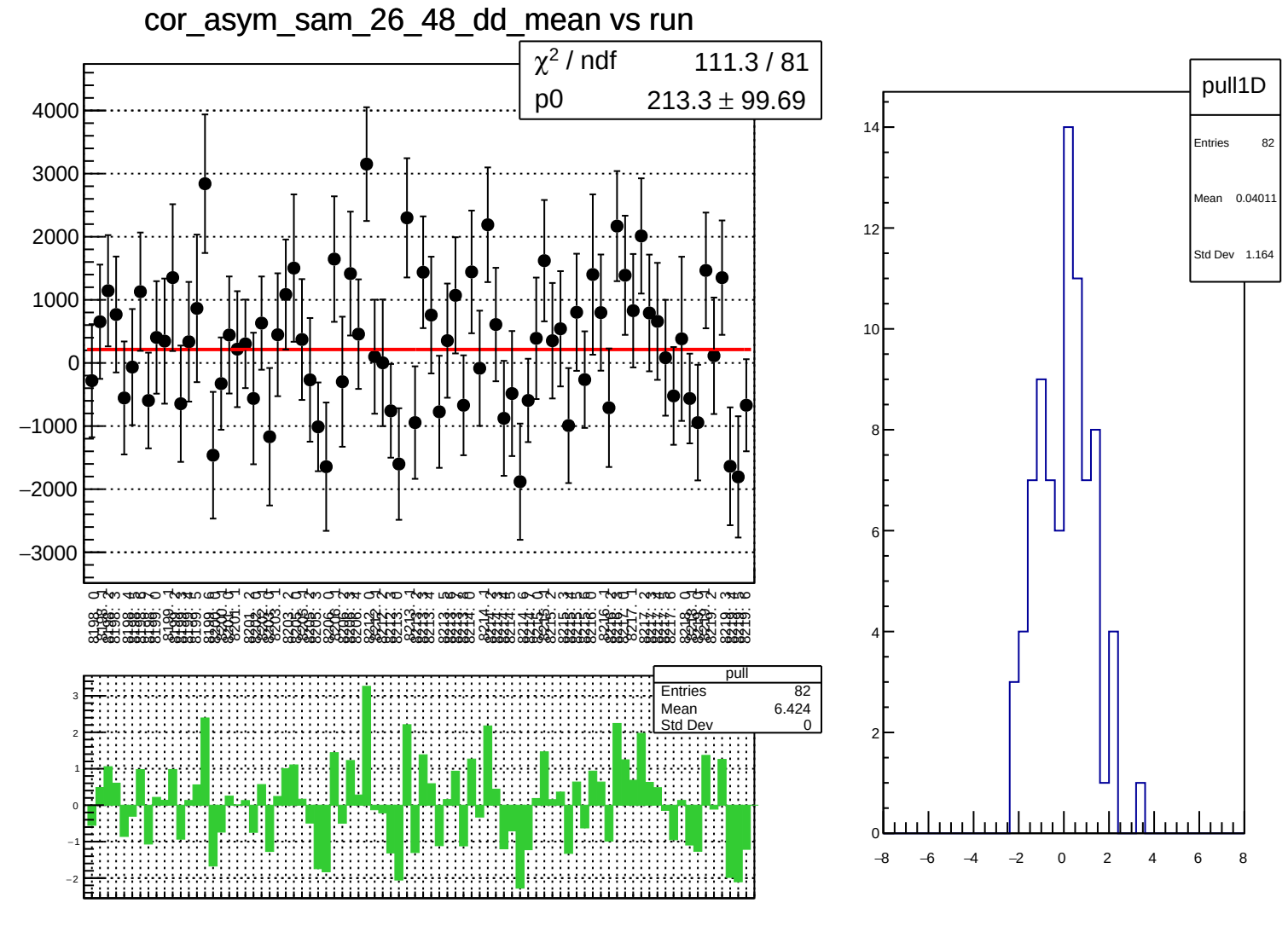

pull1D
Entries 82
Mean 0.04011
Std Dev 1.164

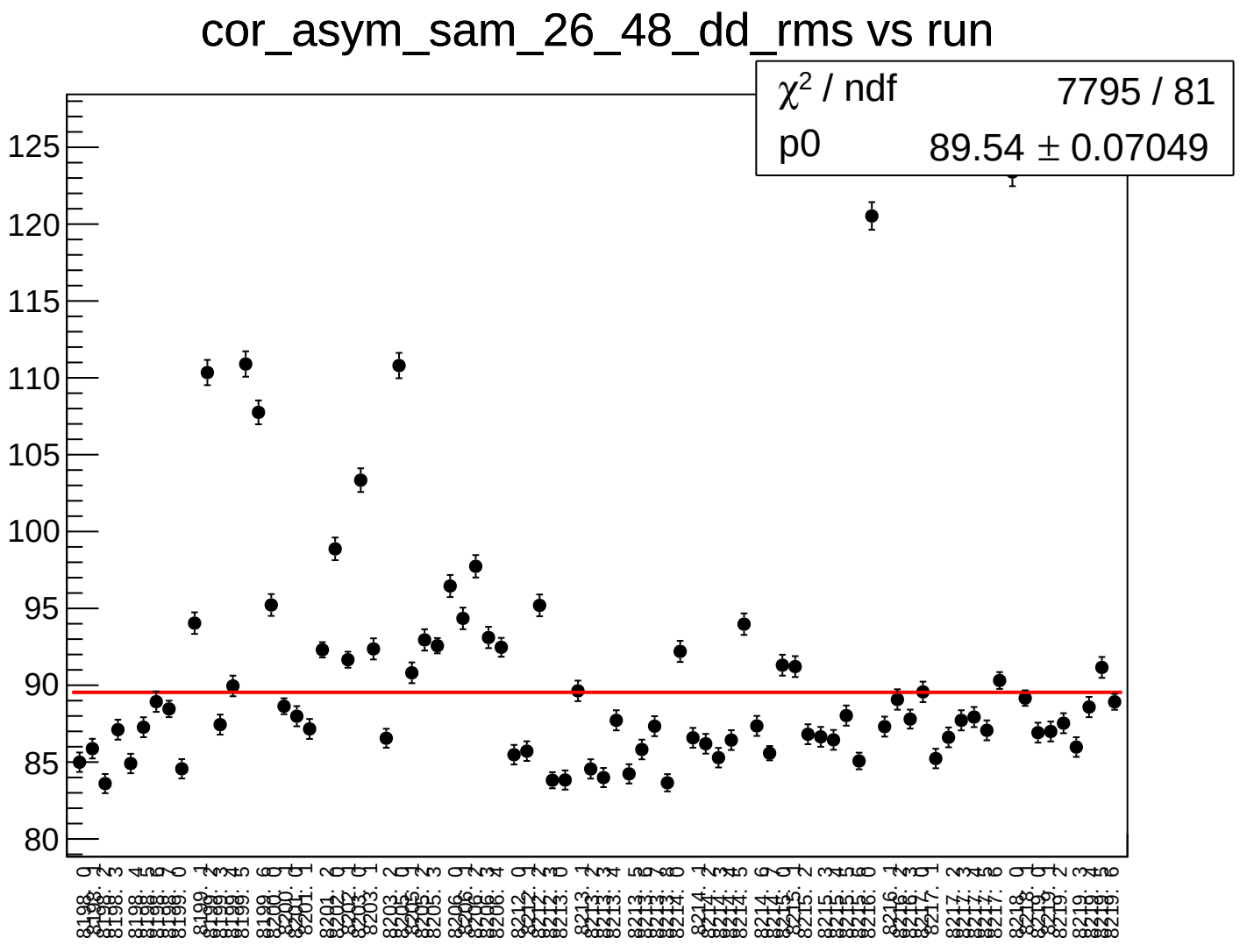

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 7795 / 81
p0 89.54 ± 0.07049
125
120
115
110
105
100
95
90
85
80

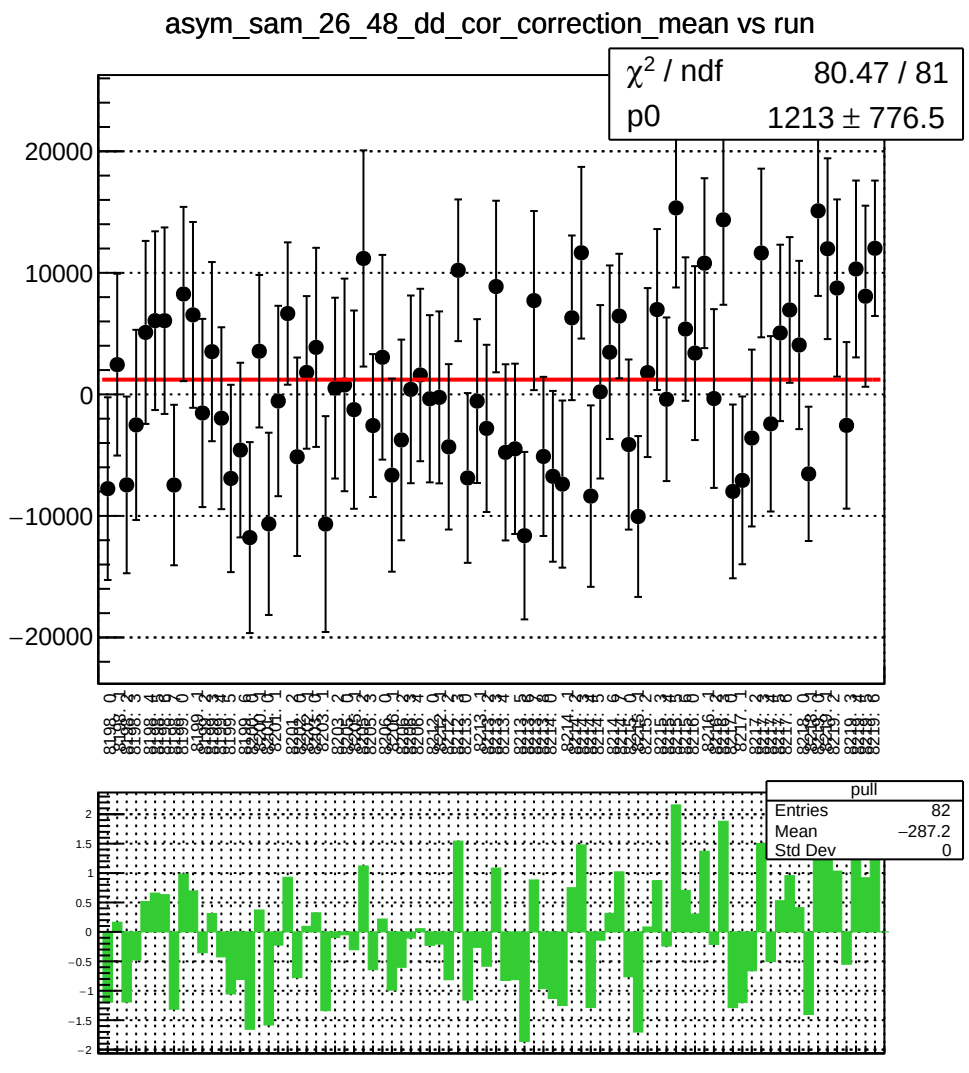

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 80.48 / 81
p0 1213 ± 776.5
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −287.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

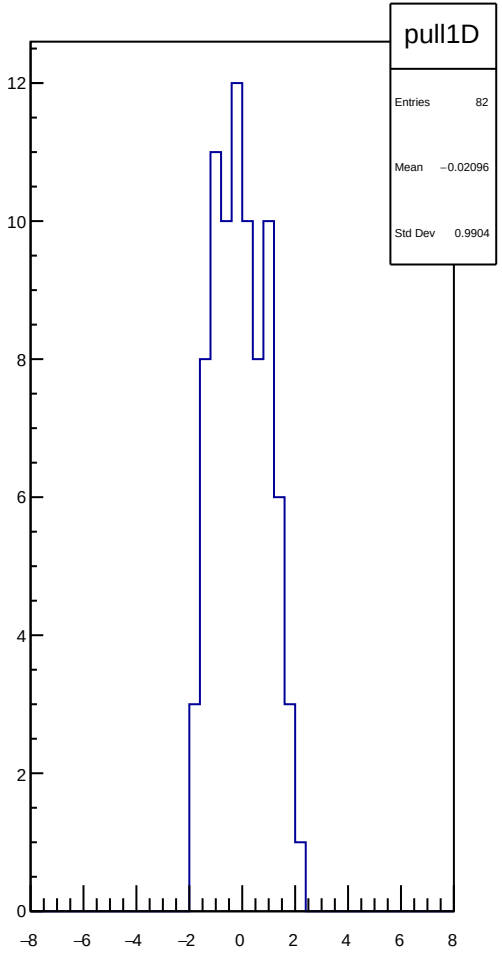

pull1D
Entries 82
Mean −0.02096
Std Dev 0.9904
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 7467 / 81
p0 697.5 ± 0.5491
850
800
750
700
650
600


cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 111.3 / 81
p0 213.3 ± 99.69
pull
Entries 82
Mean 6.424
Std Dev 0
pull1D
Entries 82
Mean 0.04011
Std Dev 1.164


cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 7795 / 81
p0 89.54 ± 0.07049
125
120
115
110
105
100
95
90
85
80


asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 80.47 / 81
p0 1213 ± 776.5
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −287.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.02096
Std Dev 0.9904
12
10
8
6
4
2
0
−8
−6
−4
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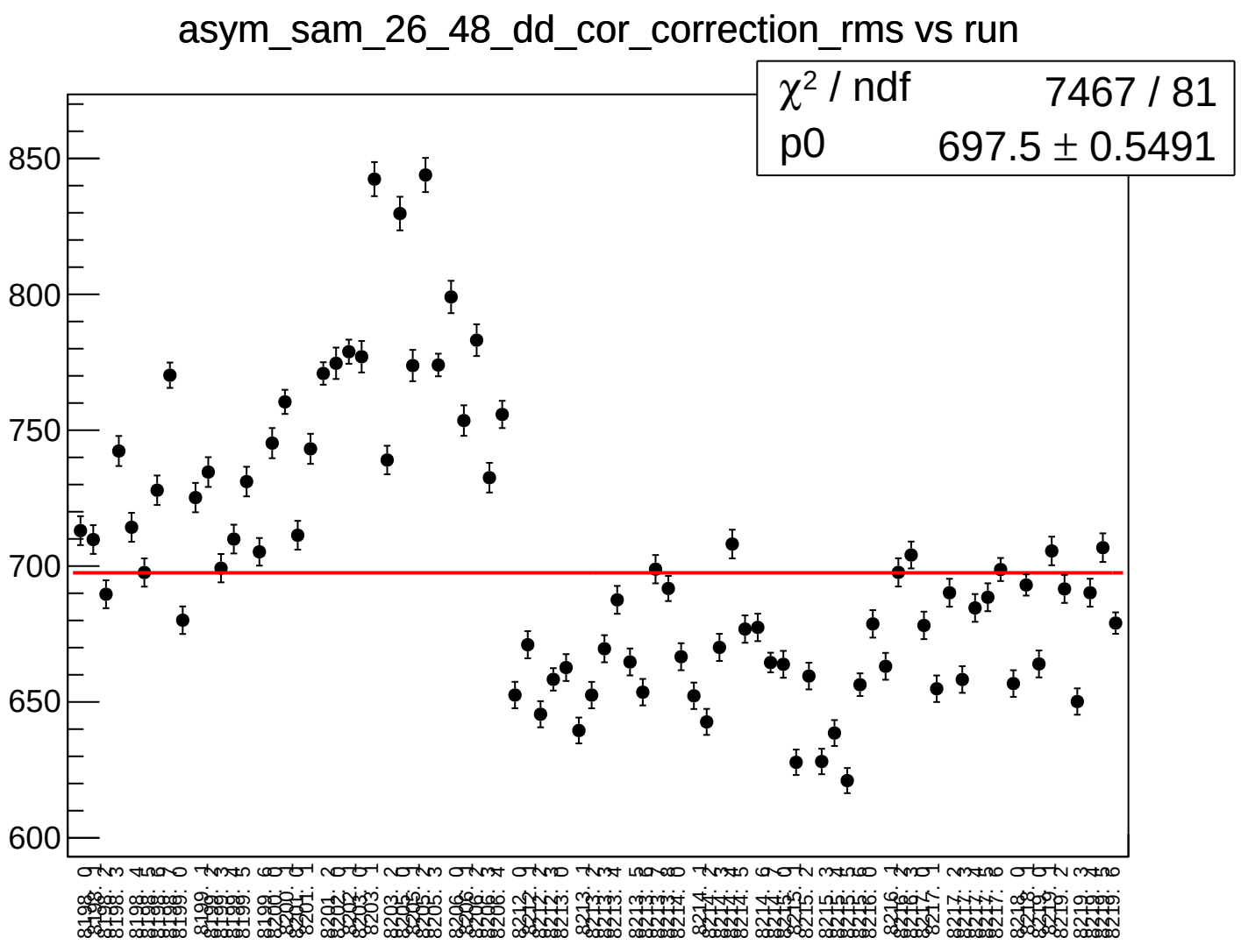
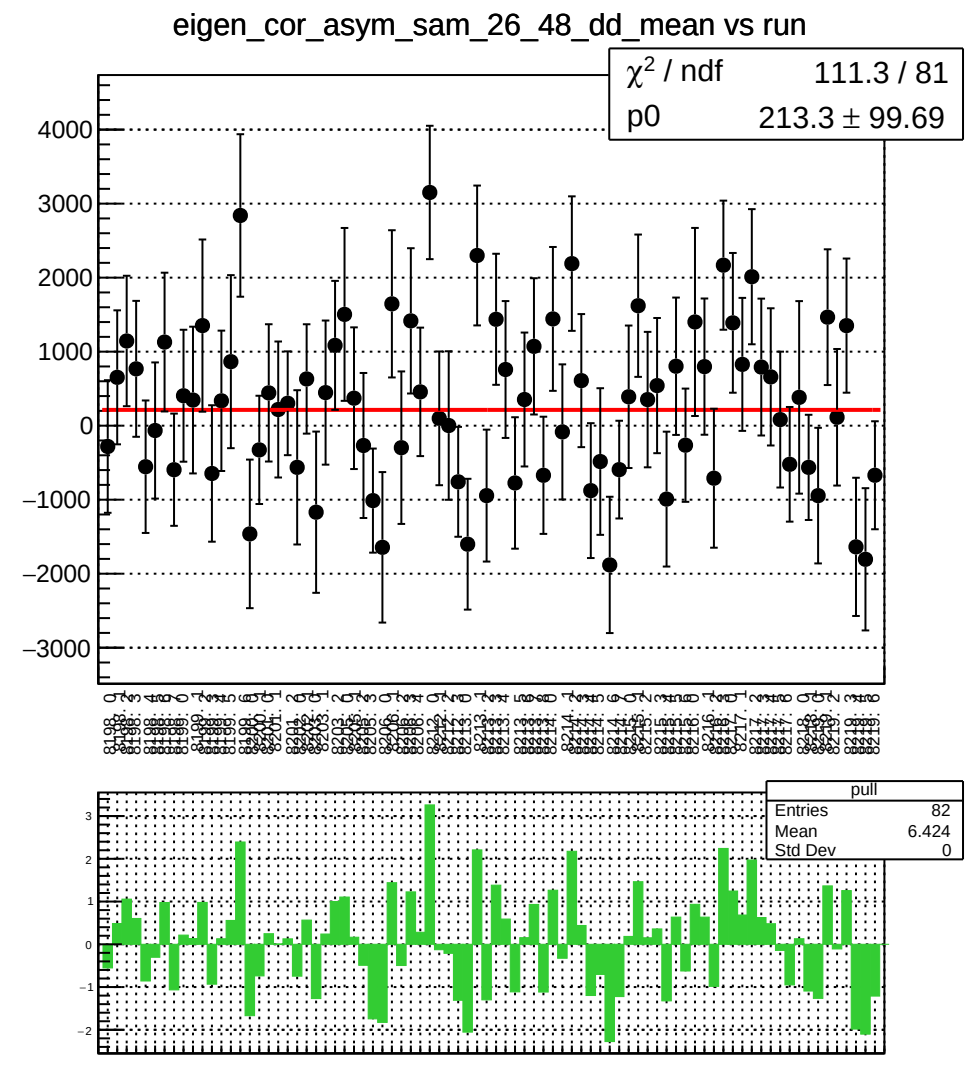
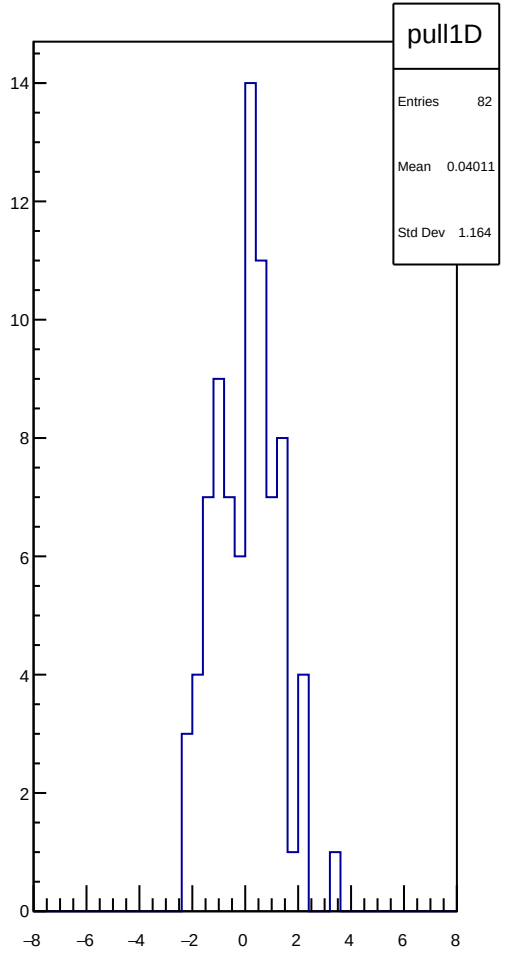
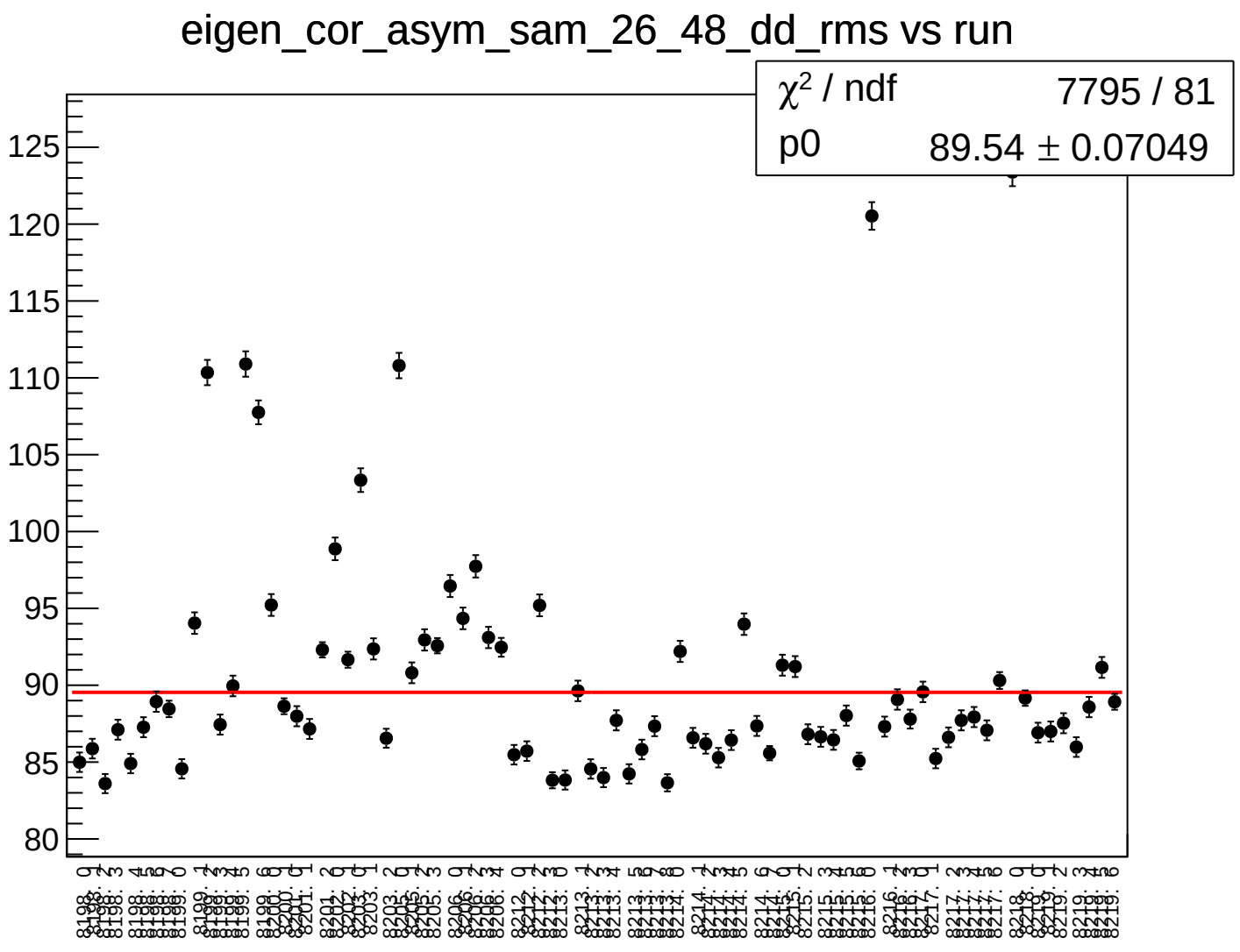
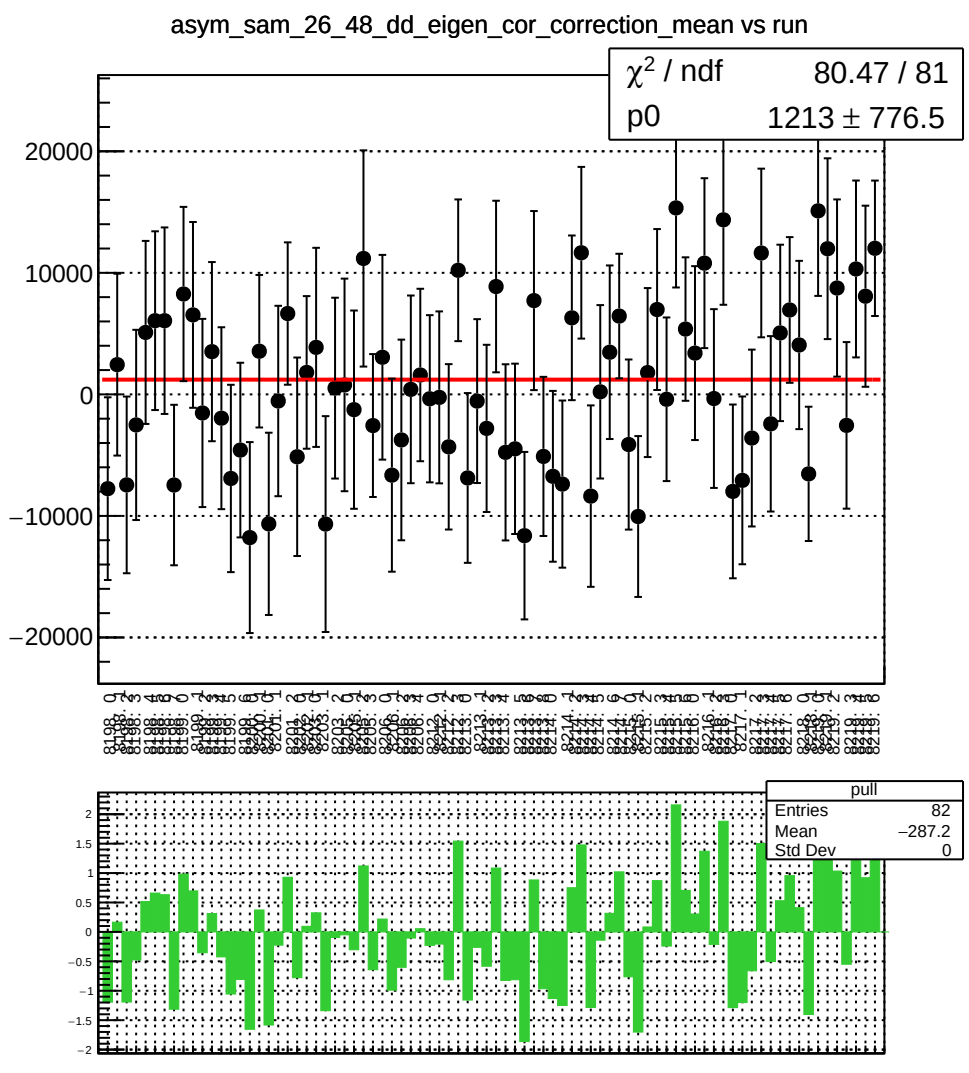
0
2
4
6
8

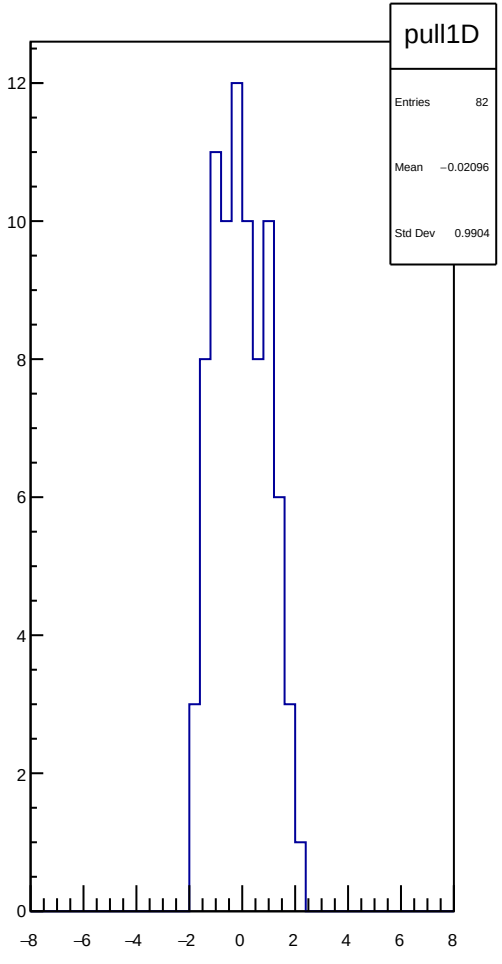

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 7467 / 81
p0 697.5 ± 0.5491
850
800
750
700
650
600


eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 111.3 / 81
p0 213.3 ± 99.69
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean 6.424
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 82
Mean 0.04011
Std Dev 1.164
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 7795 / 81
p0 89.54 ± 0.07049
125
120
115
110
105
100
95
90
85
80


asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.47 / 81
p0 1213 ± 776.5
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −287.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 82
Mean −0.02096
Std Dev 0.9904
12
10
8
6
4
2
0
−8
−6
−4
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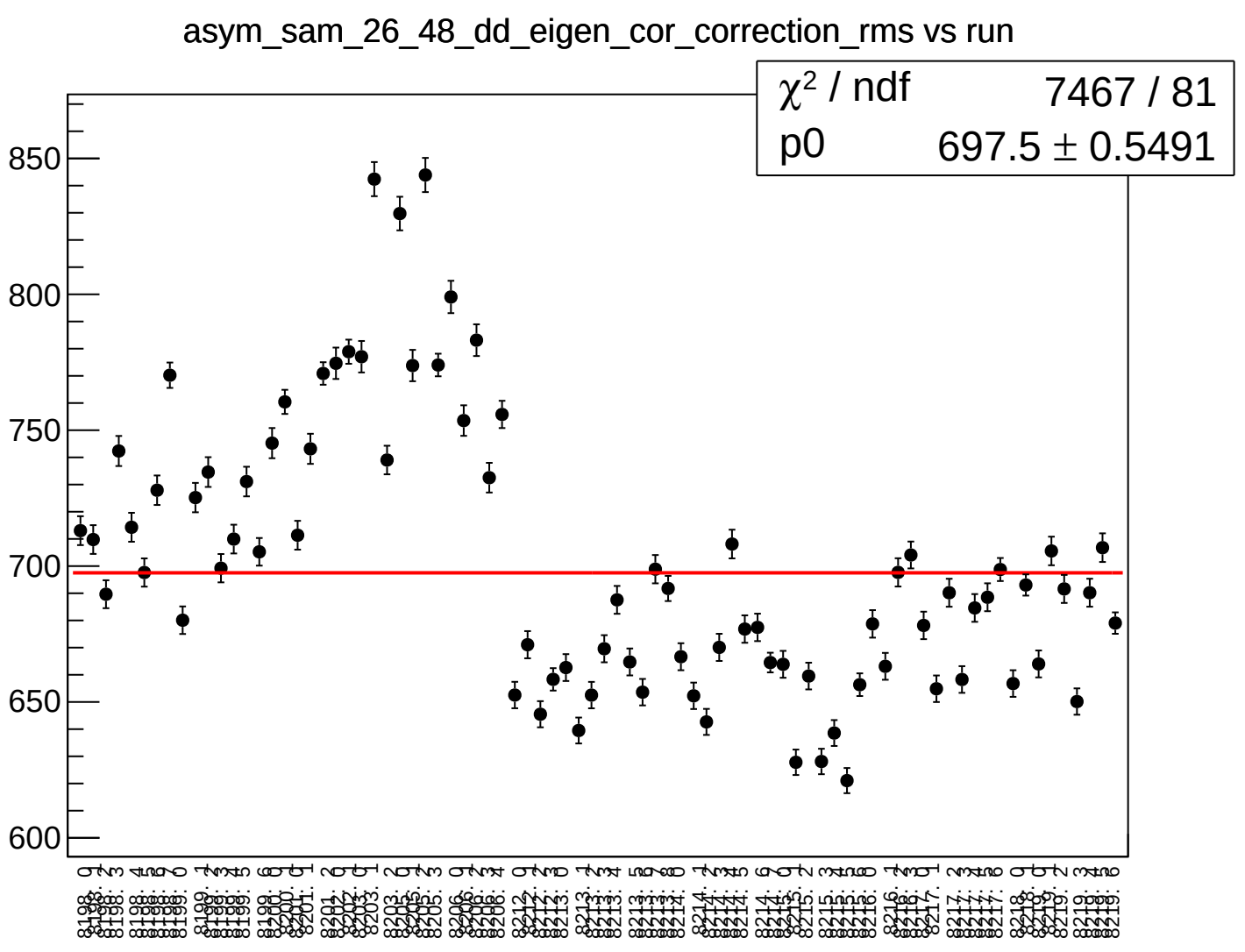
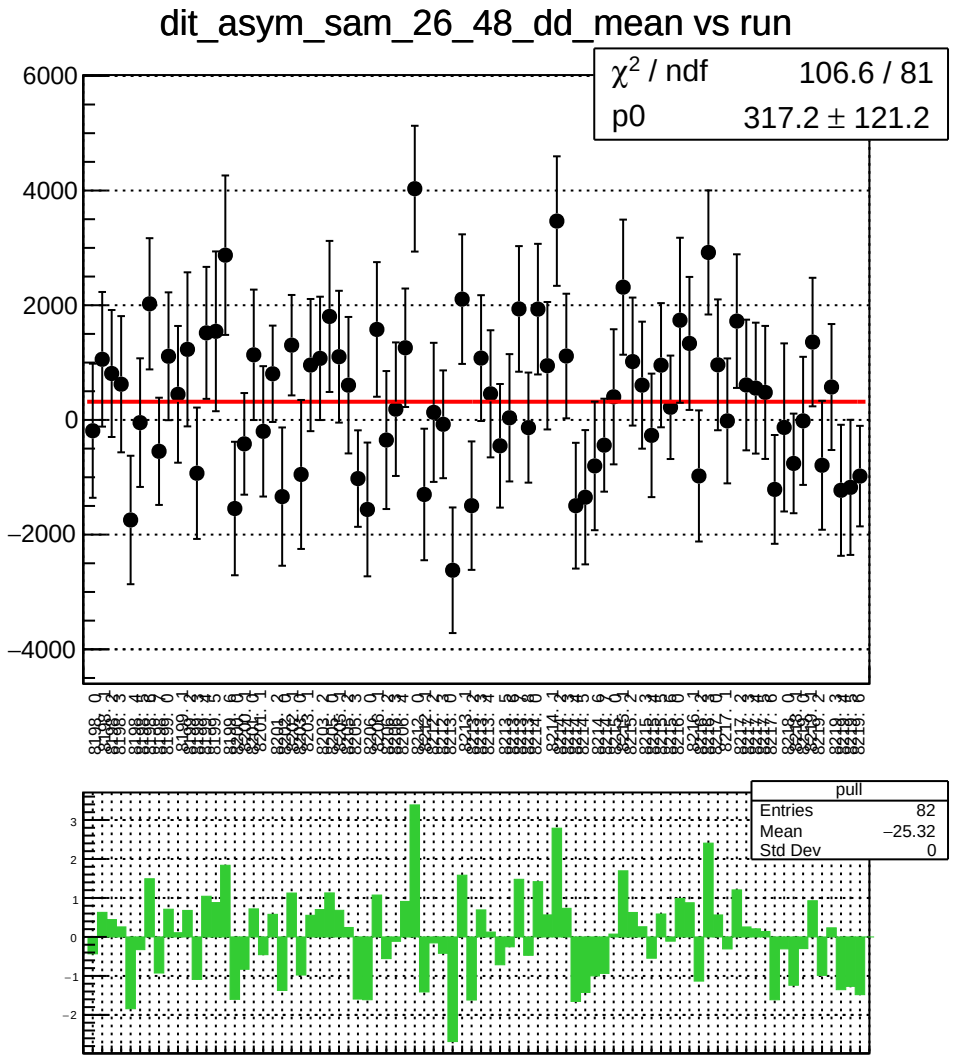
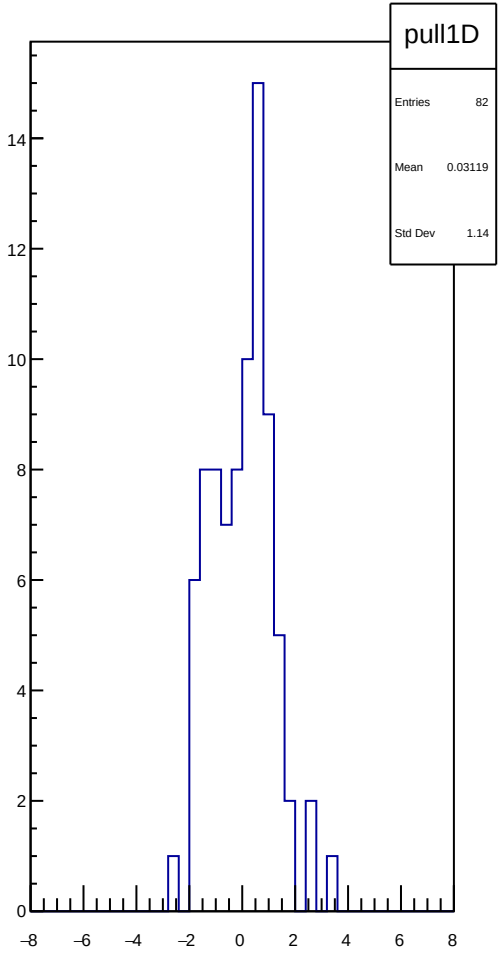
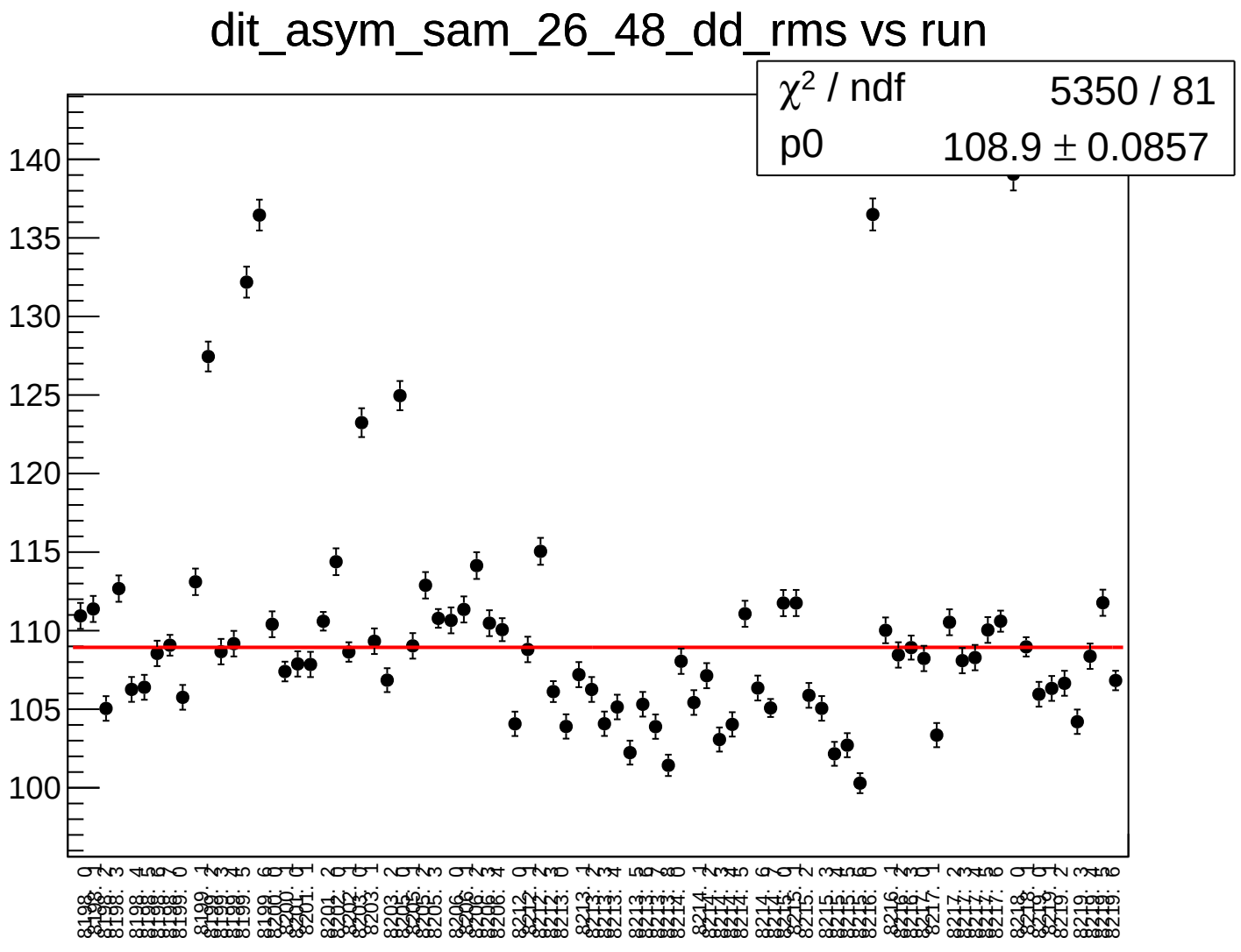
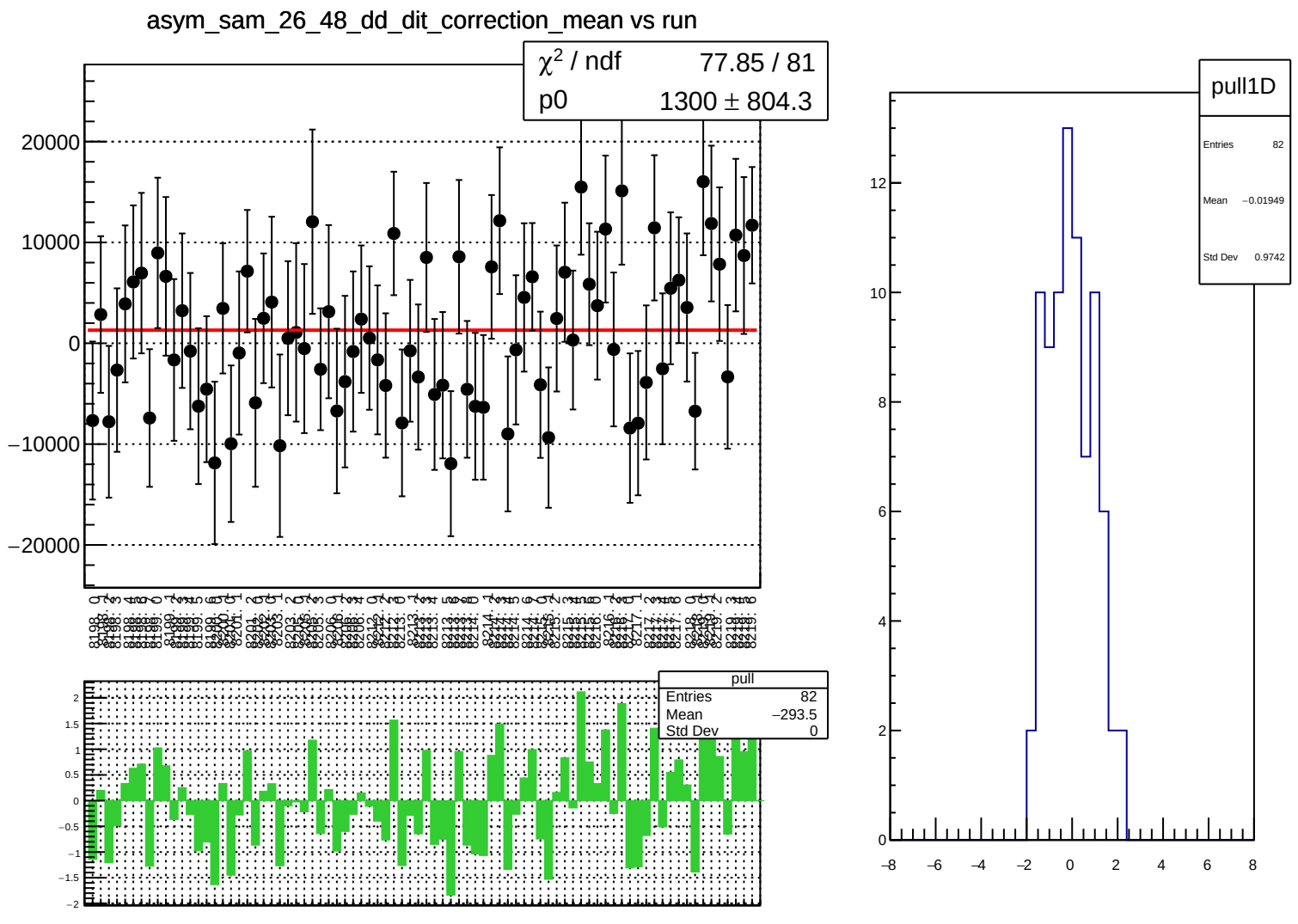
0
2
4
6
8

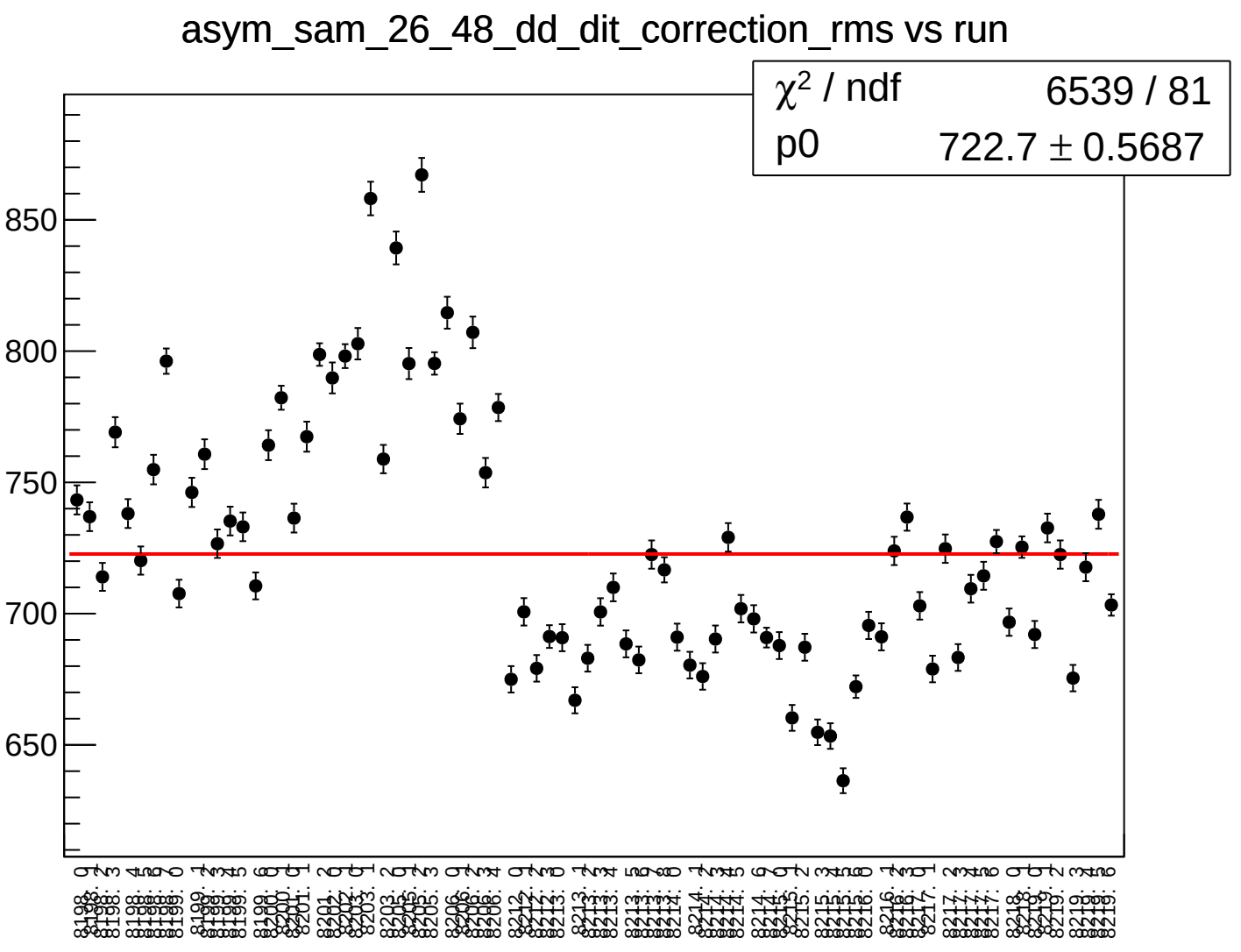

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7467 / 81
p0 697.5 ± 0.5491
850
800
750
700
650
600

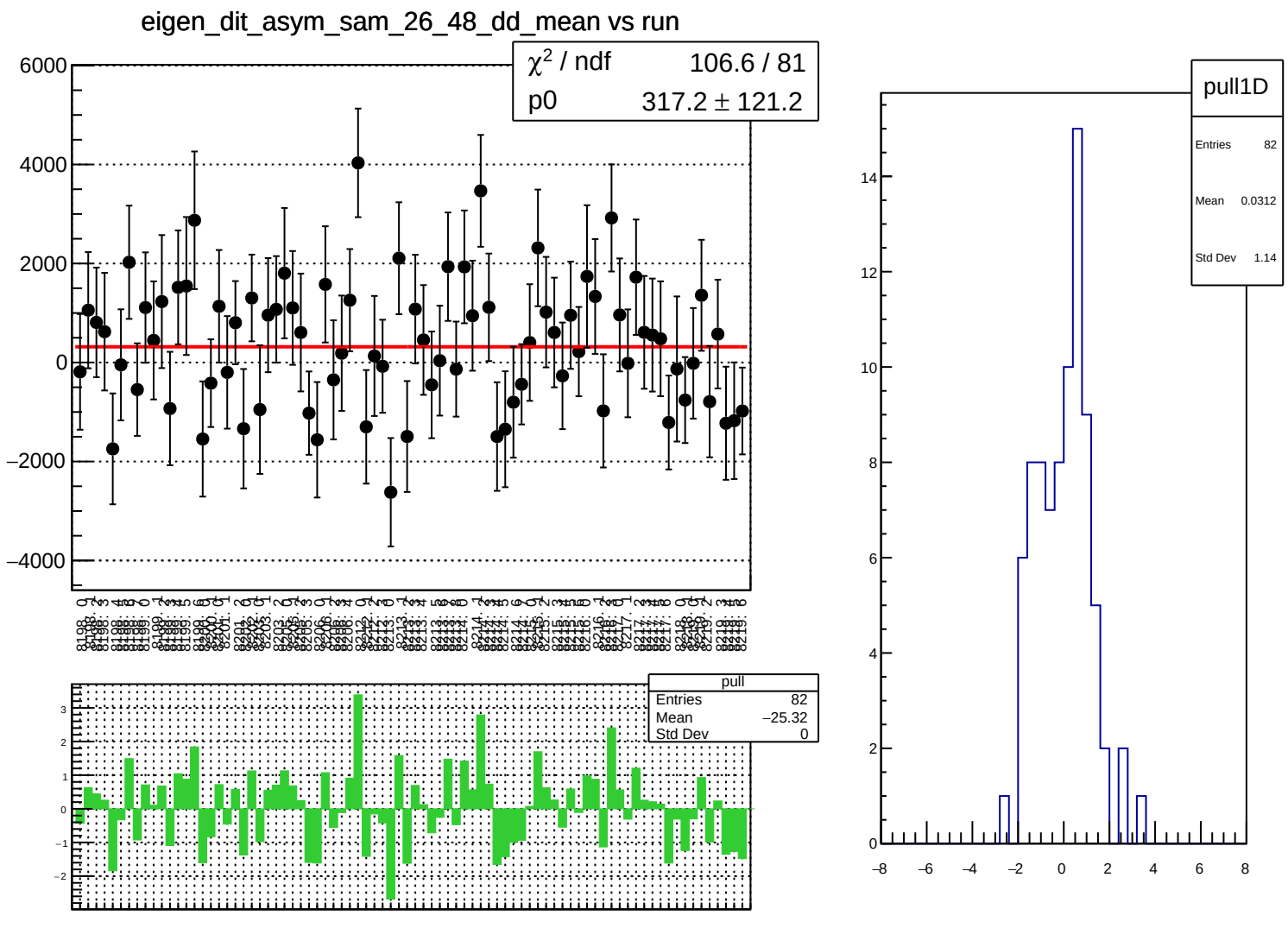

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 106.6 / 81
p0 317.2 ± 121.2
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −25.32
Std Dev 0
3
2
1
0
−1
−2

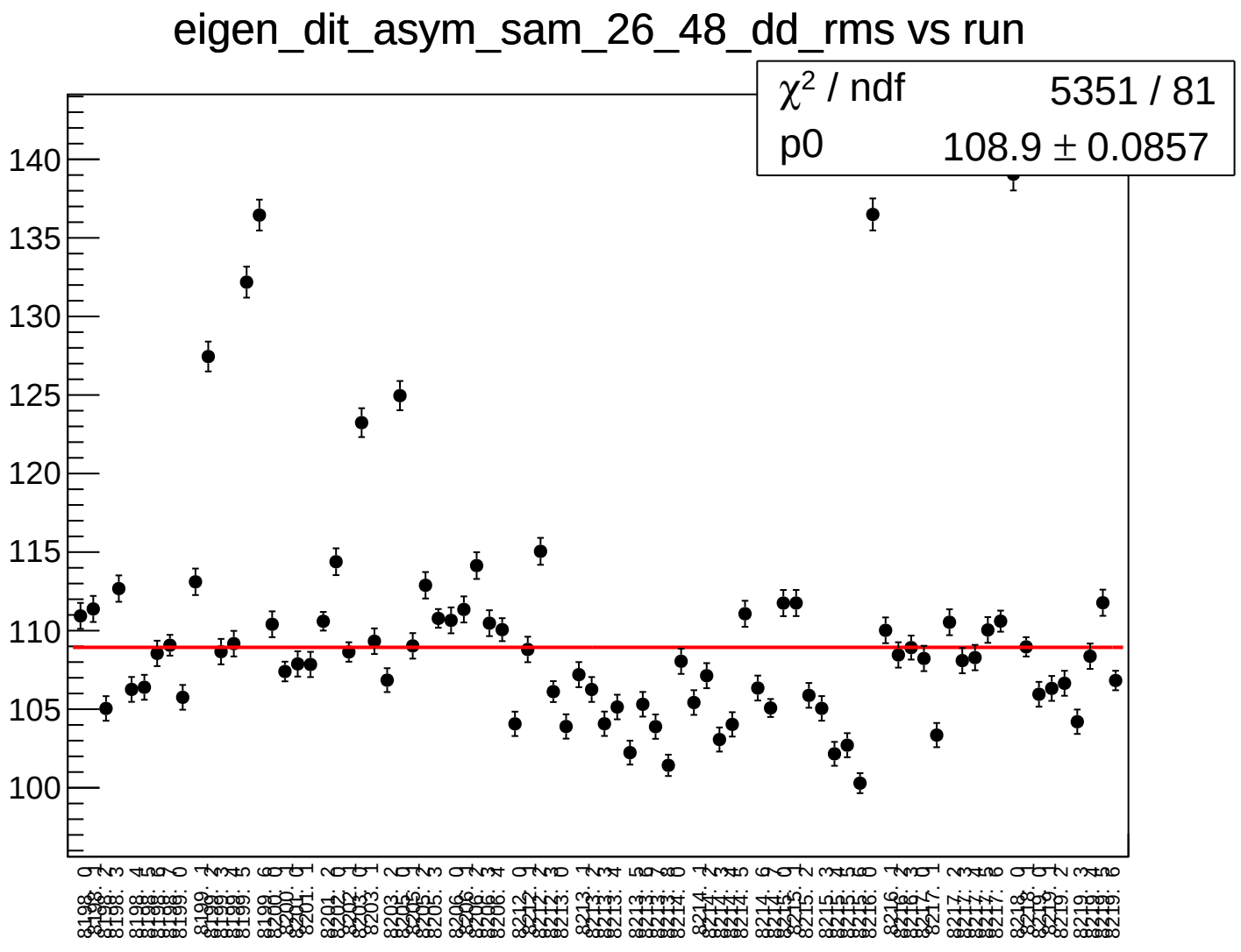

pull1D
Entries 82
Mean 0.03119
Std Dev 1.14
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

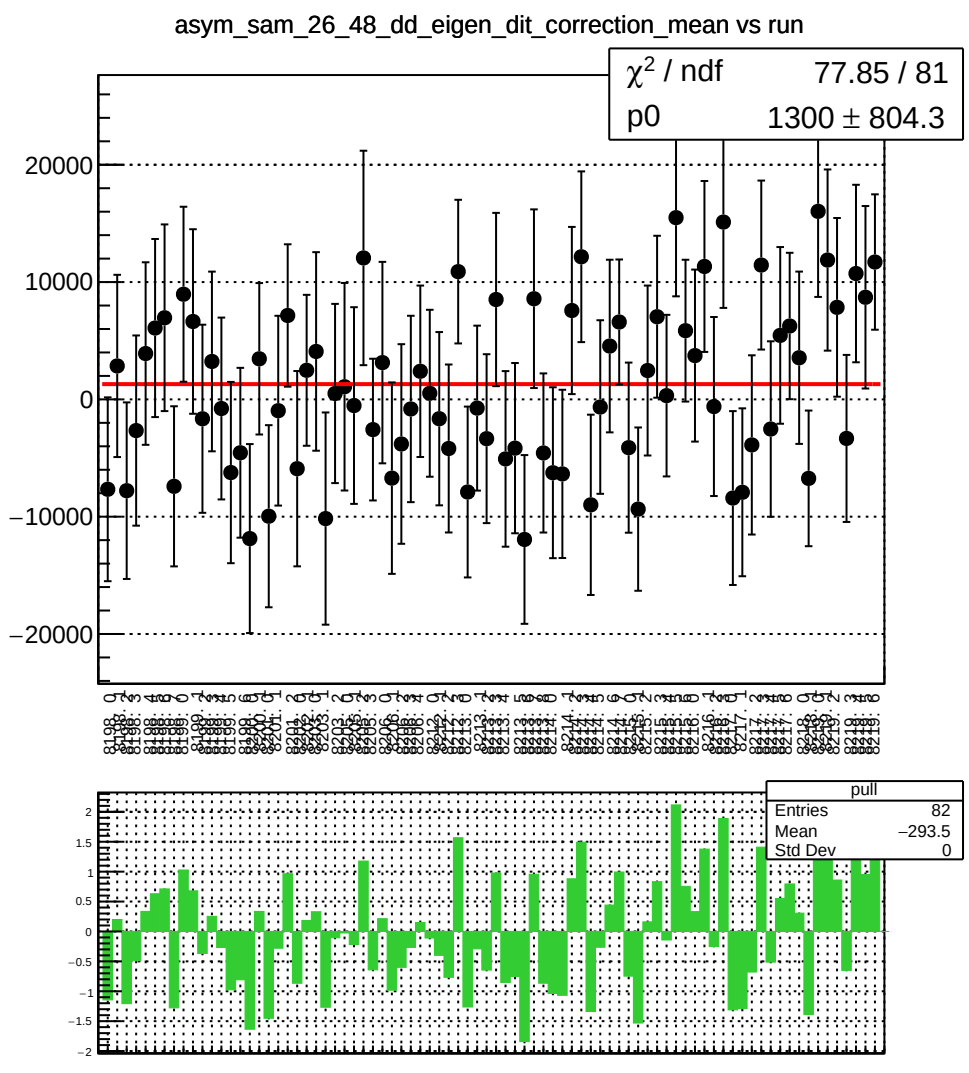

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 5350 / 81
p0 108.9 ± 0.0857
140
135
130
125
120
115
110
105
100

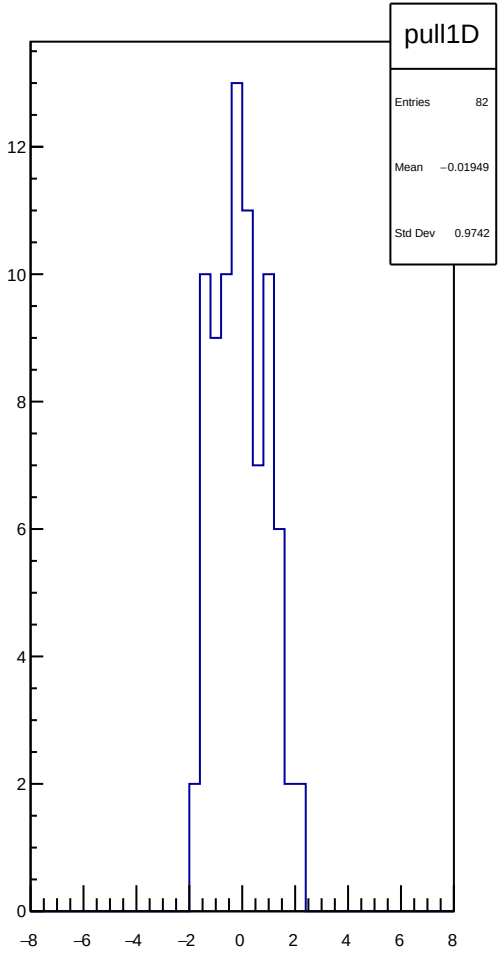

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 77.85 / 81
p0 1300 ± 804.3
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −293.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.01949
Std Dev 0.9742
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

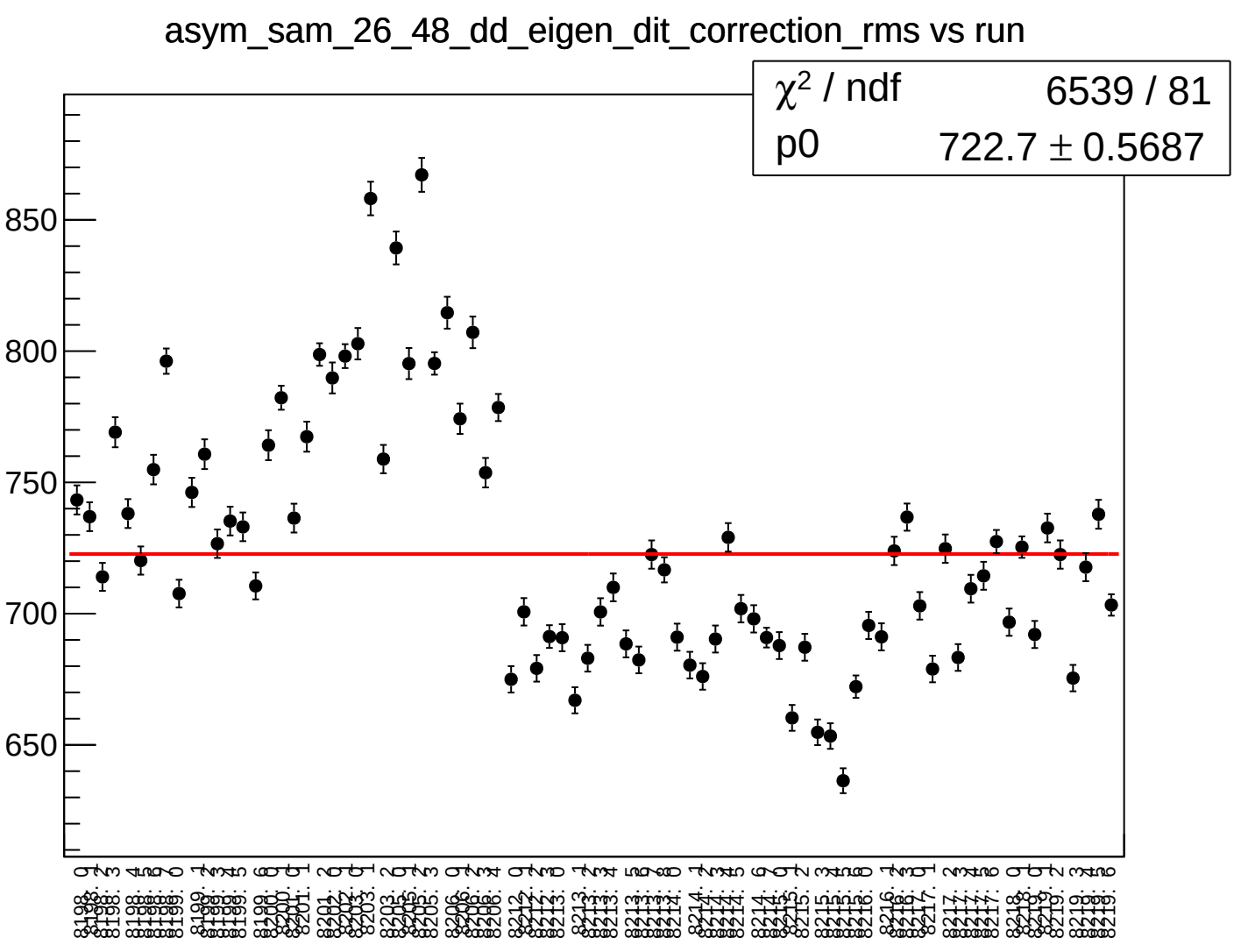

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 6539 / 81
p0 722.7 ± 0.5687
850
800
750
700
650

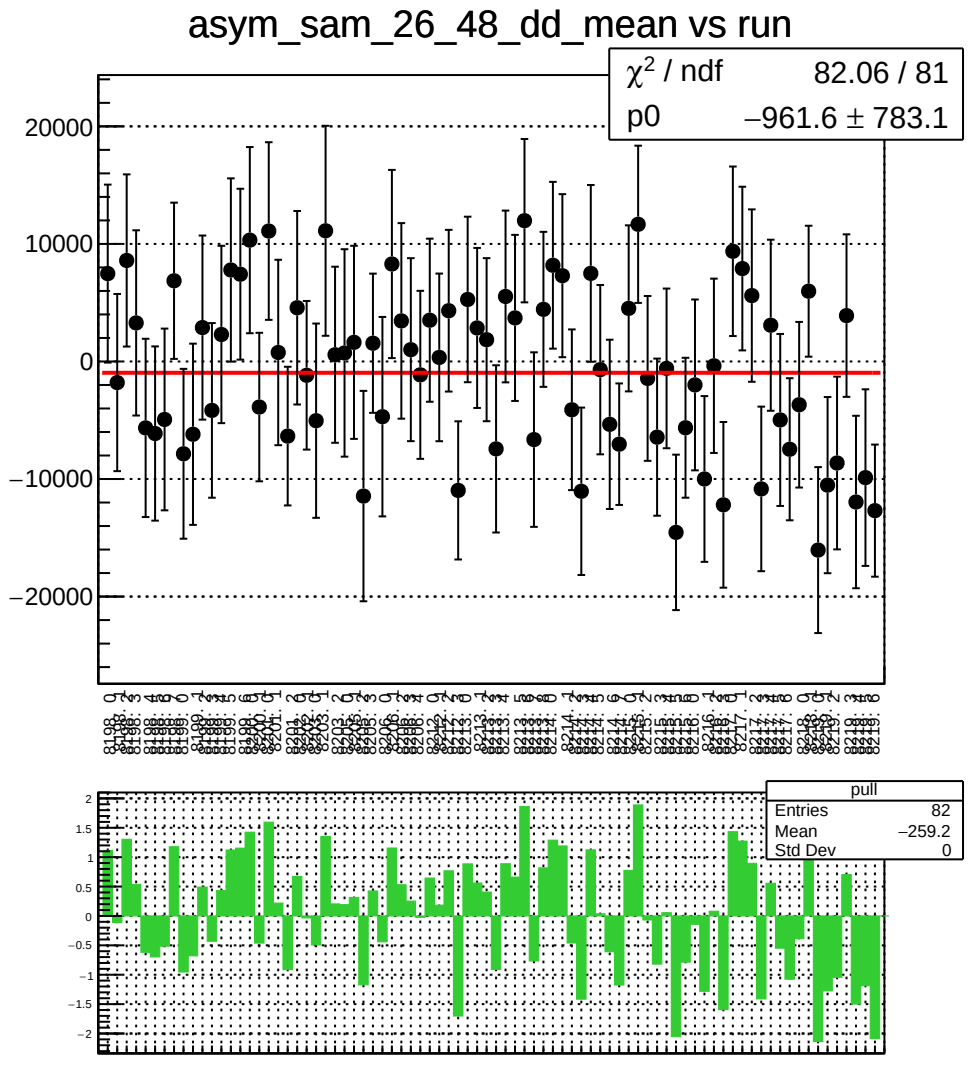

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 106.6 / 81
p0 317.2 ± 121.2
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −25.32
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.0312
Std Dev 1.14
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

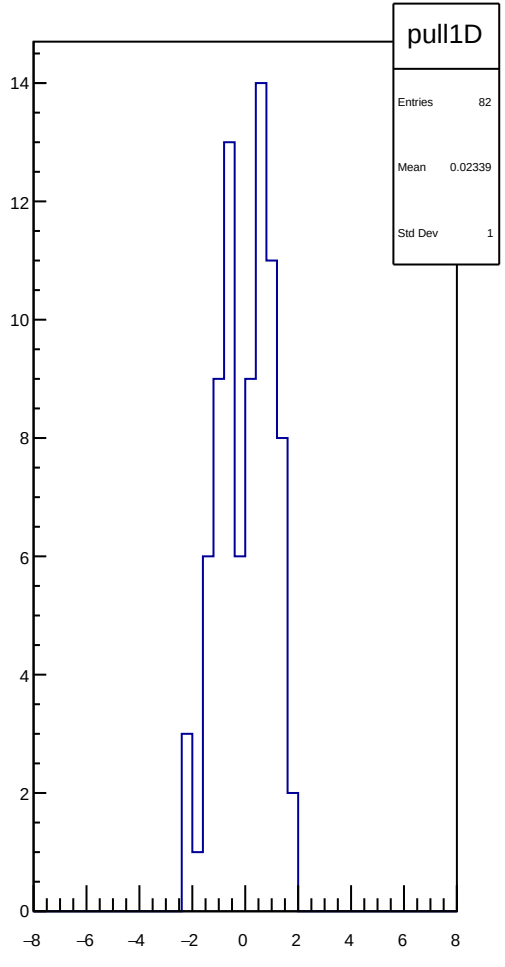

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 5351 / 81
p0 108.9 ± 0.0857
140
135
130
125
120
115
110
105
100

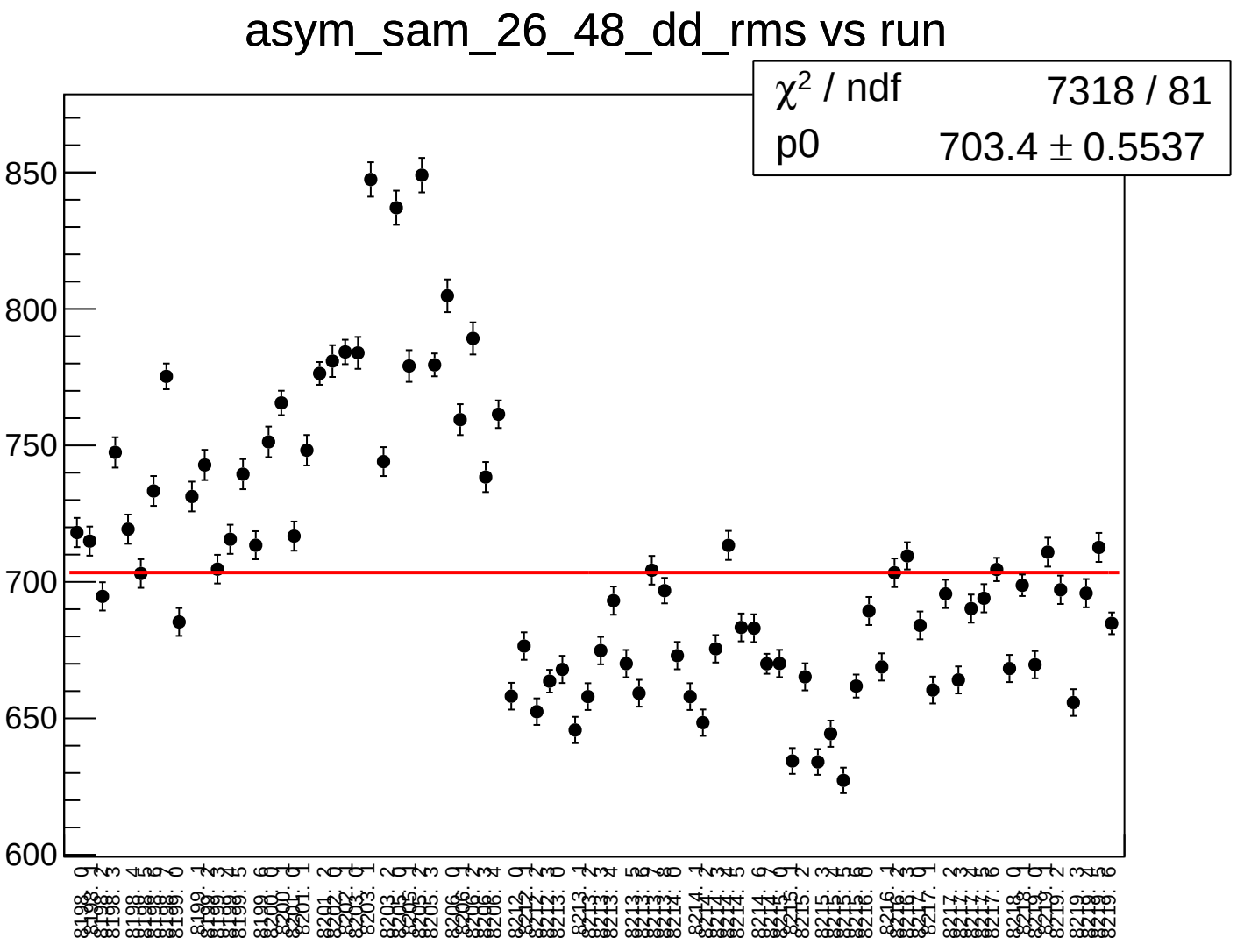

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.85 / 81
p0 1300 ± 804.3
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −293.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

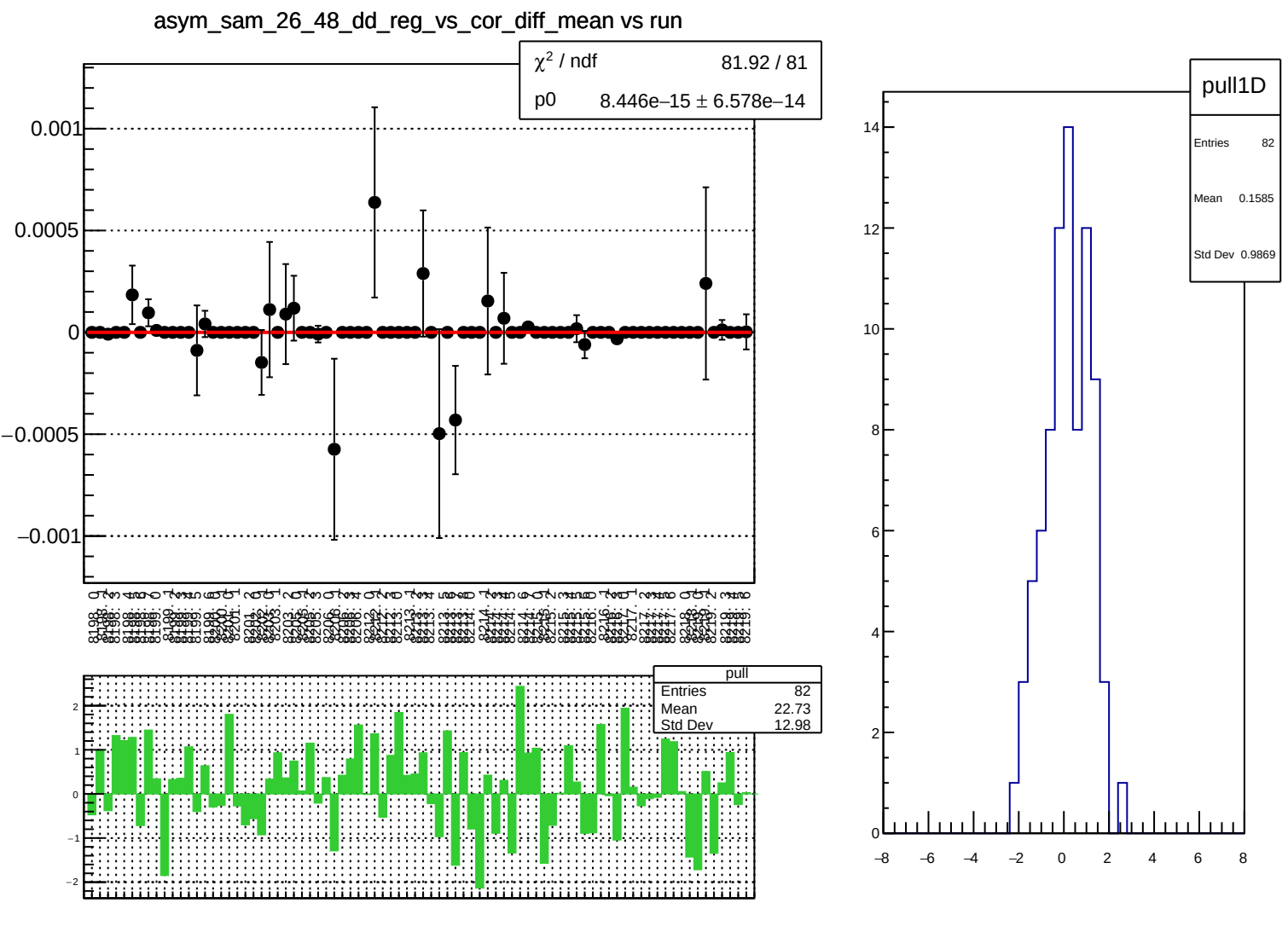

pull1D
Entries 82
Mean −0.01949
Std Dev 0.9742
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

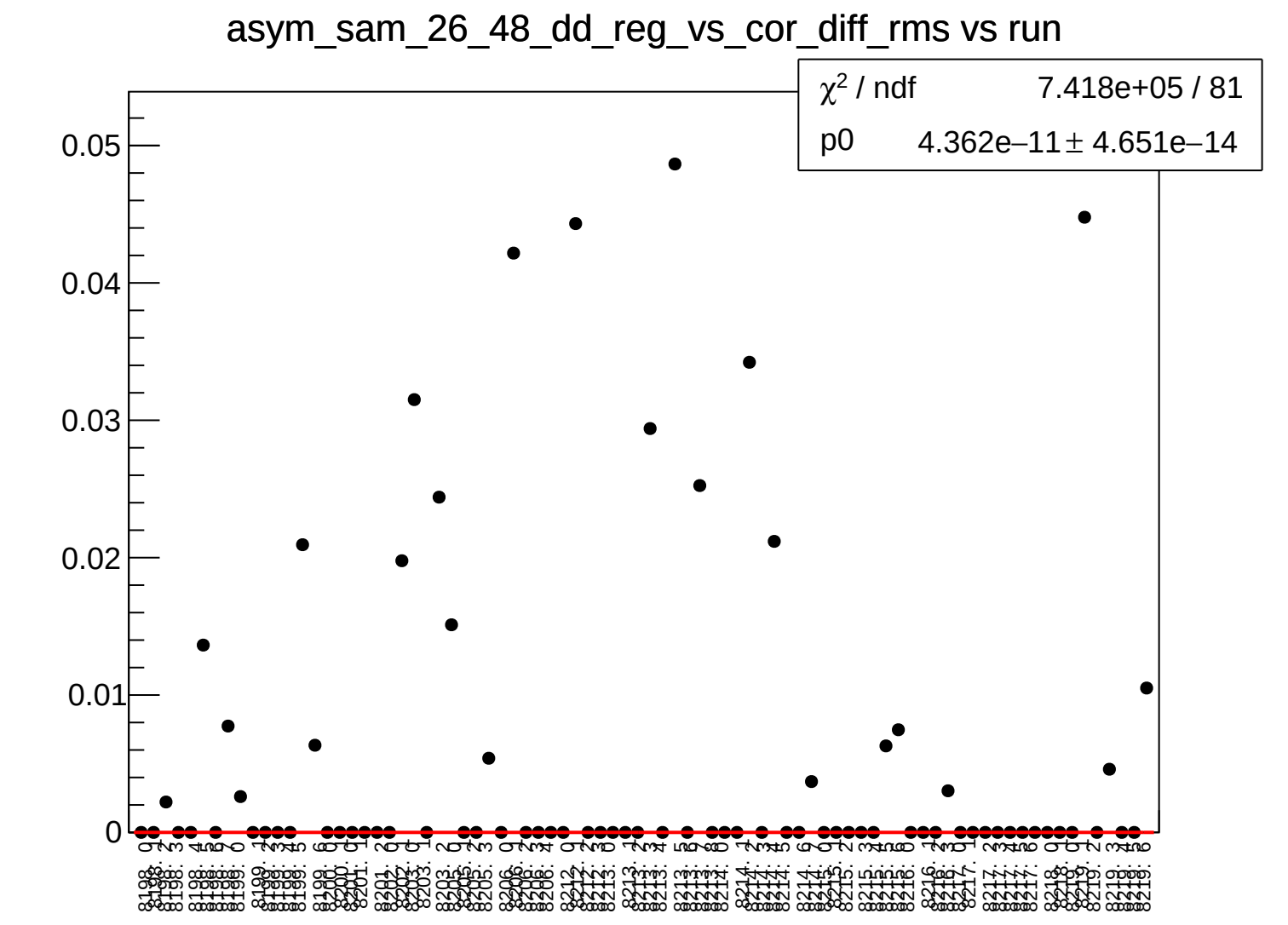

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 6539 / 81
p0 722.7 ± 0.5687
850
800
750
700
650

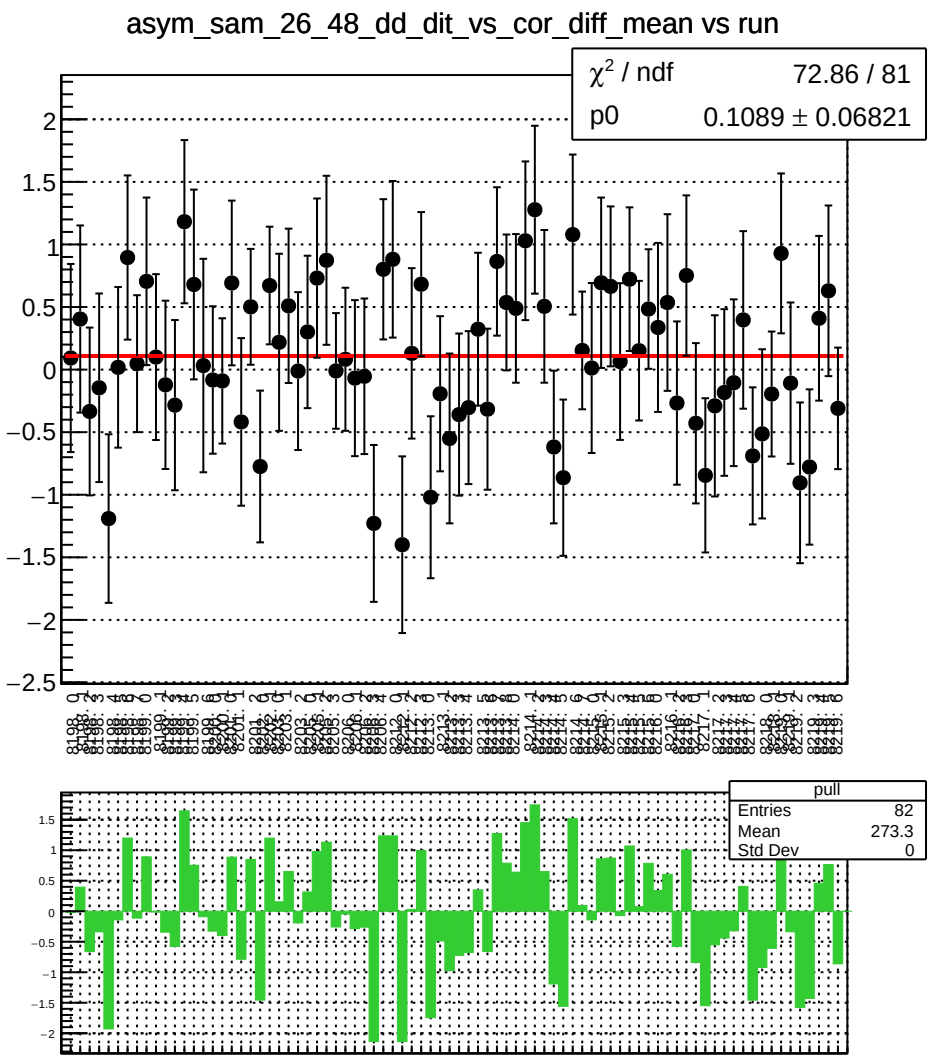

asym_sam_26_48_dd_mean vs run
χ² / ndf 82.06 / 81
p0 −961.6 ± 783.1
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −259.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

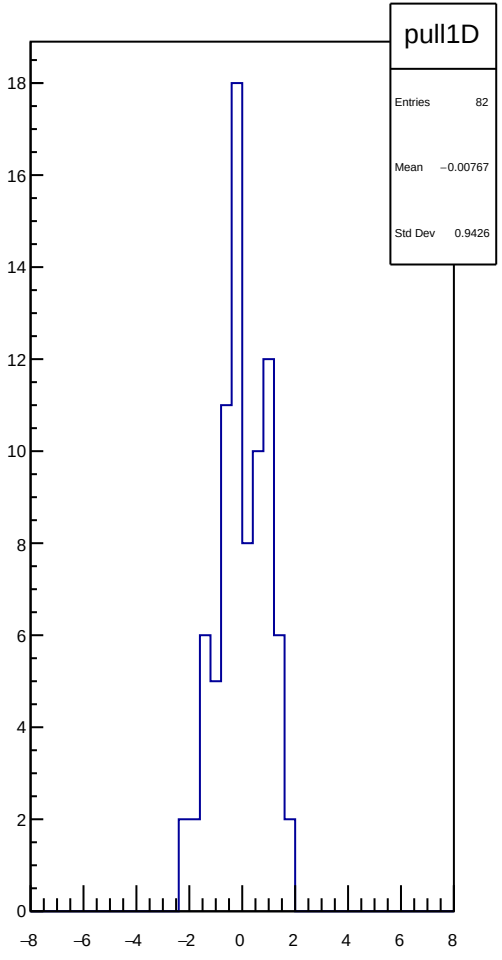

pull1D
Entries 82
Mean 0.02339
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

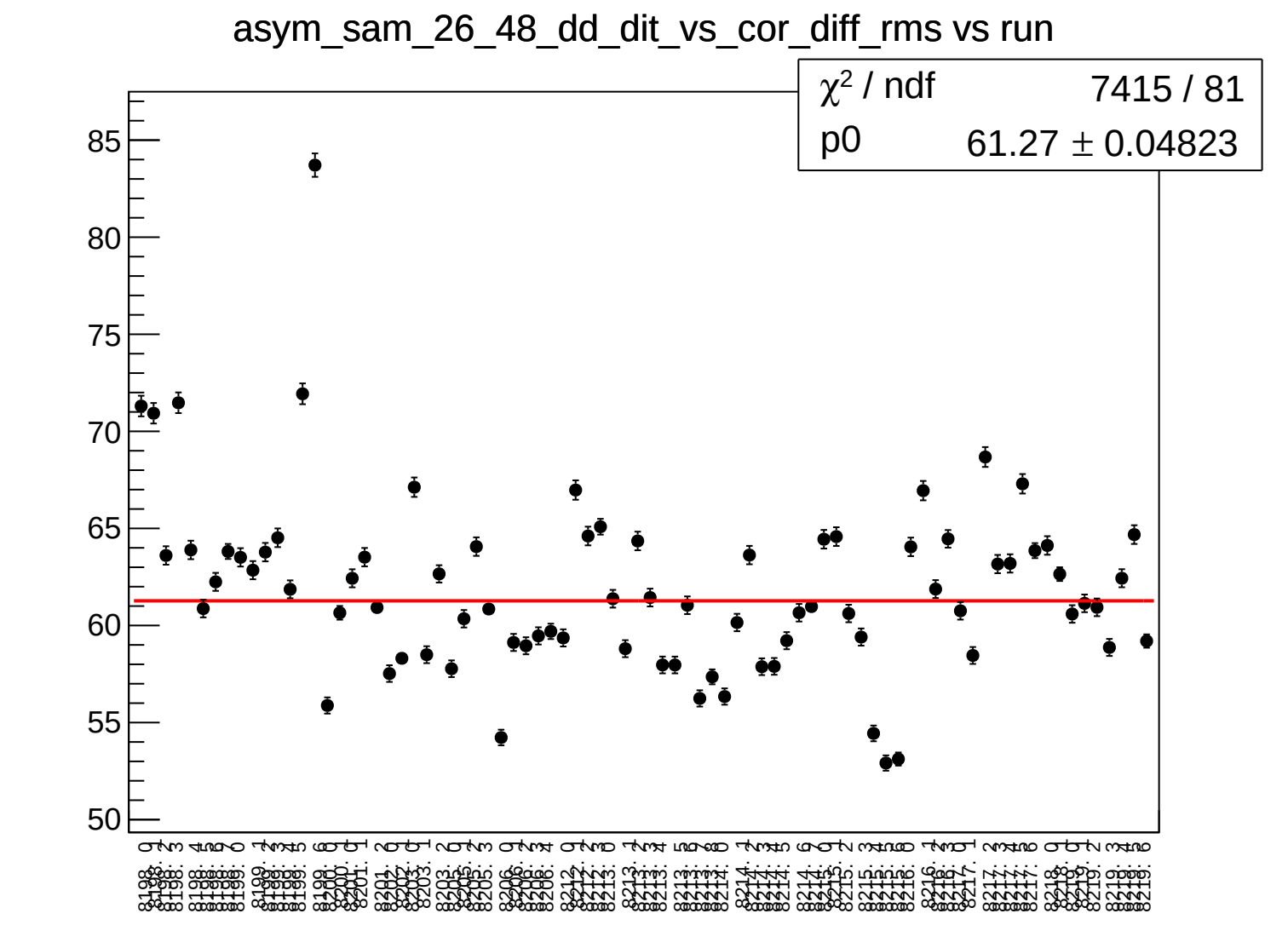

asym_sam_26_48_dd_rms vs run
χ² / ndf 7318 / 81
p0 703.4 ± 0.5537
850
800
750
700
650
600

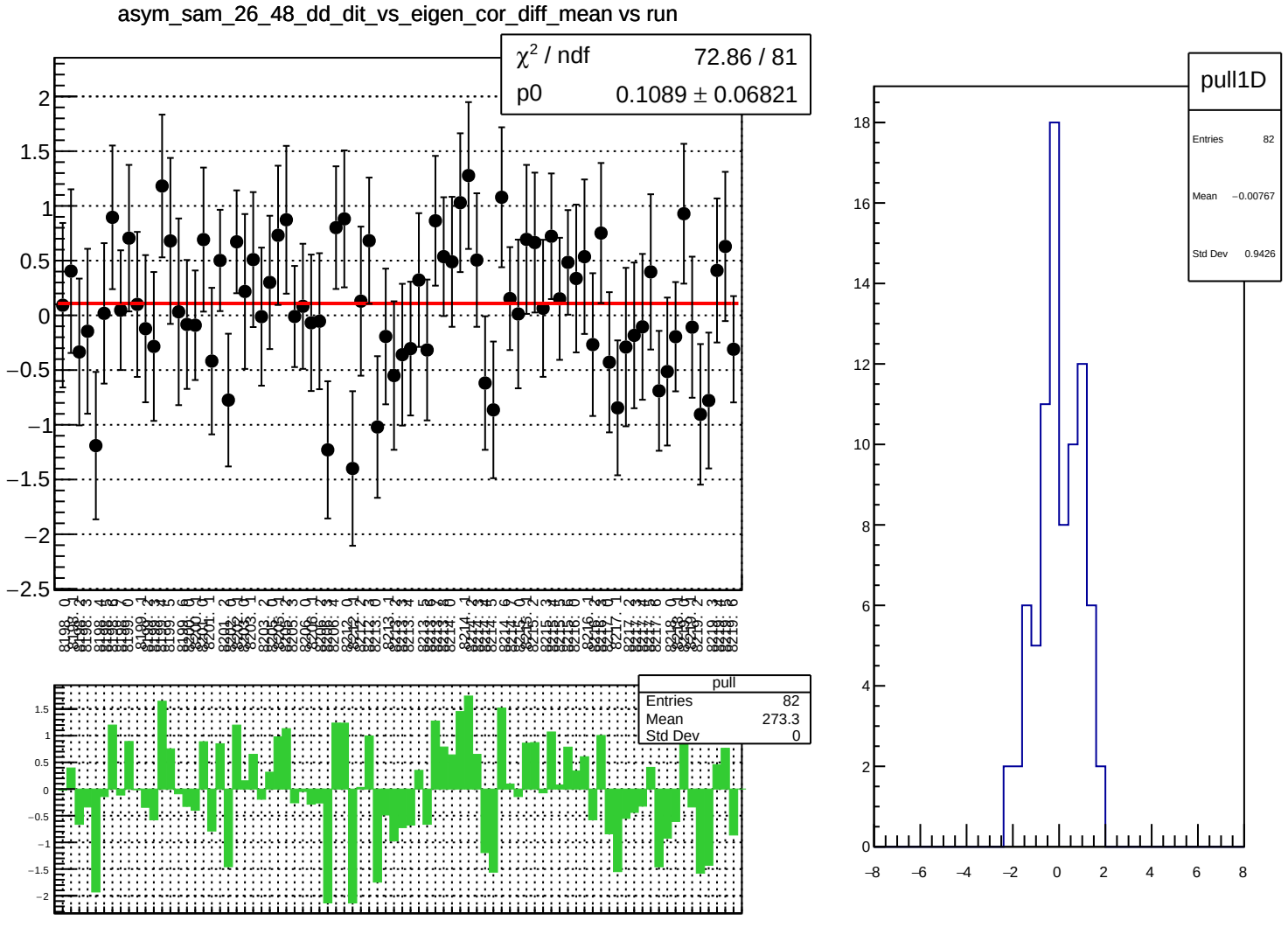

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.92 / 81
p0 8.446e−15 ± 6.578e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean 22.73
Std Dev 12.98
pull1D
Entries 82
Mean 0.1585
Std Dev 0.9869

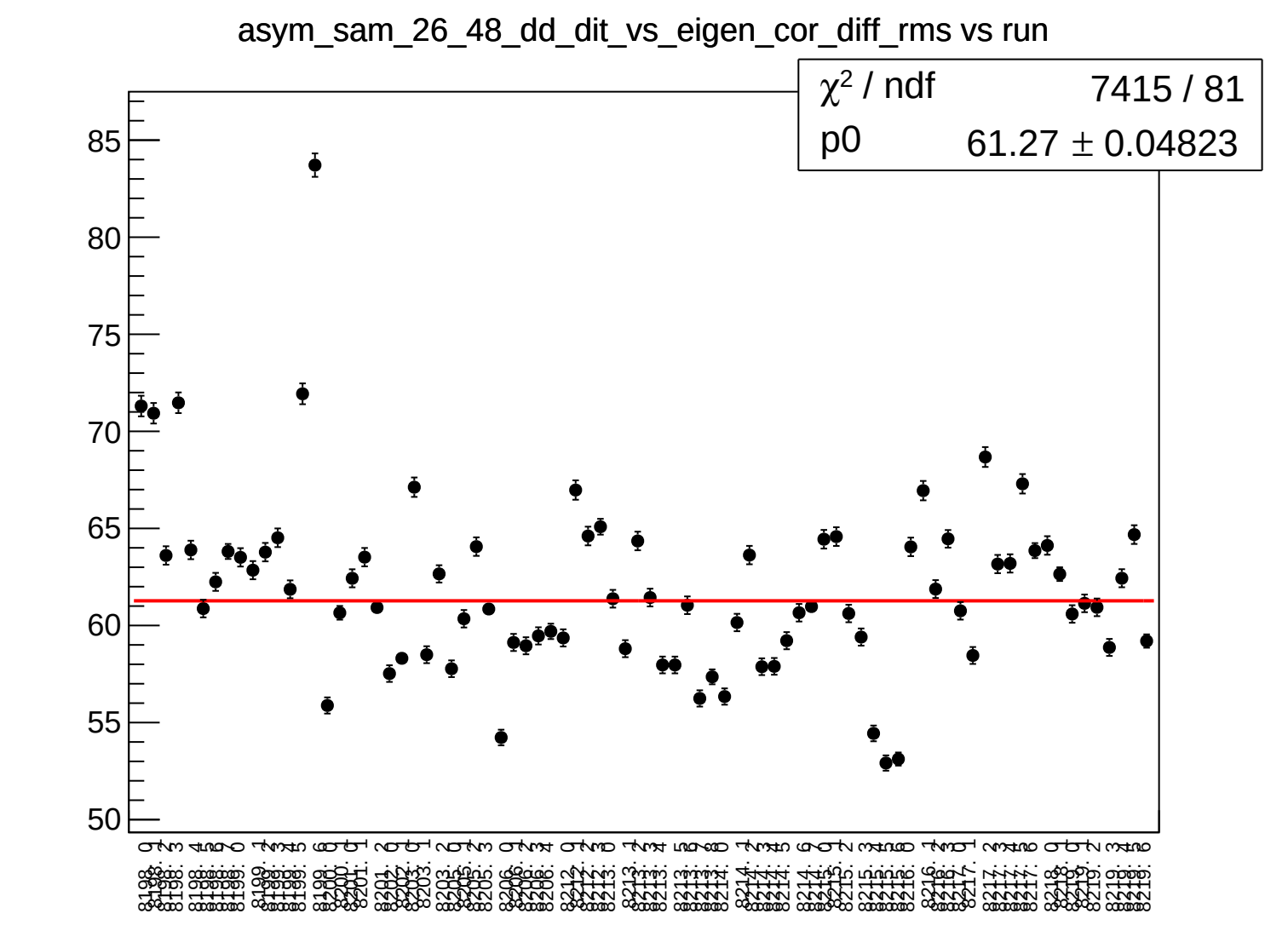

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.418e+05 / 81
p0 4.362e−11 ± 4.651e−14
0.05
0.04
0.03
0.02
0.01
0

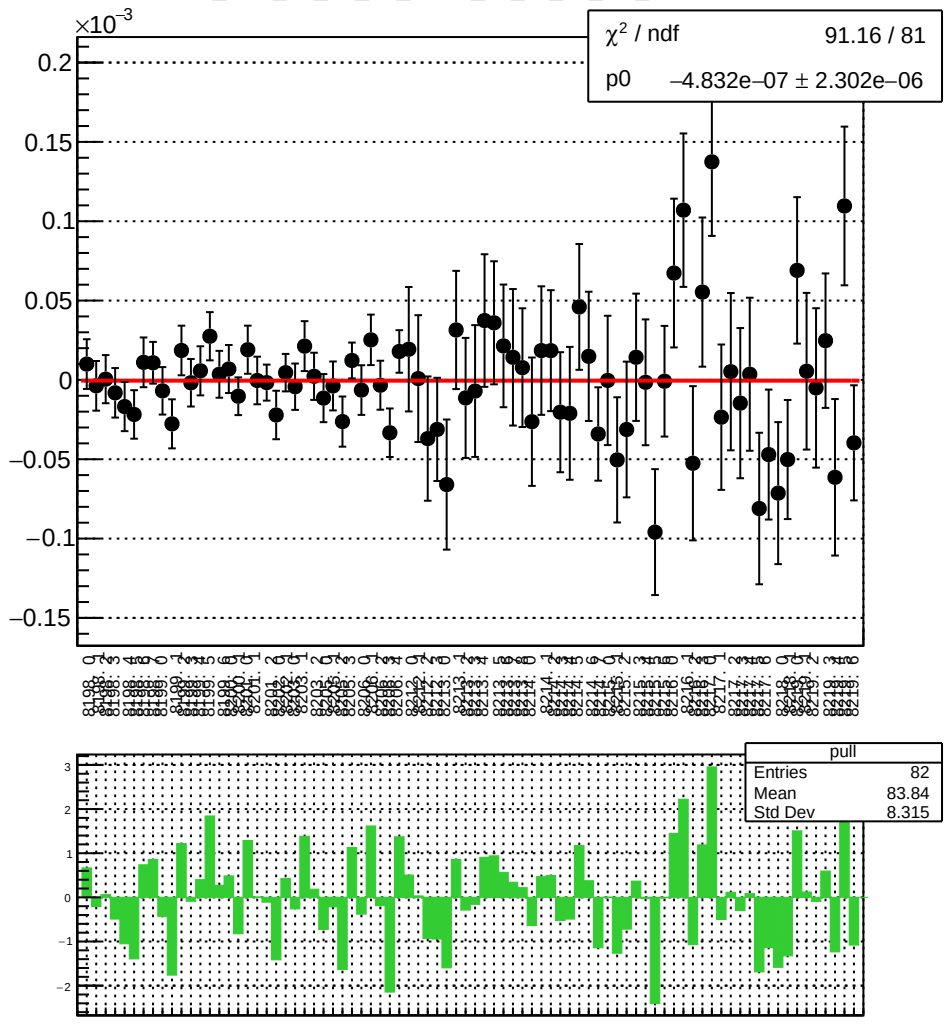

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.86 / 81
p0 0.1089 ± 0.06821
pull
Entries 82
Mean 273.3
Std Dev 0

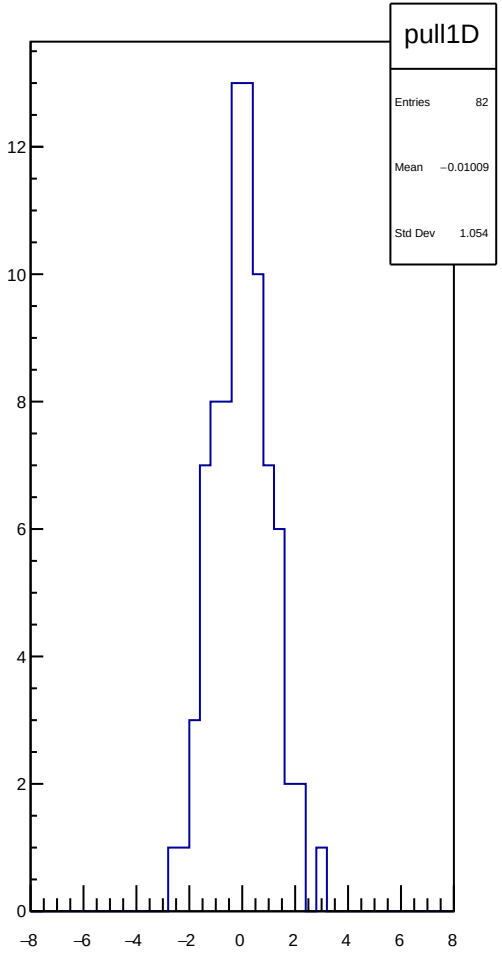

pull1D
Entries 82
Mean −0.00767
Std Dev 0.9426

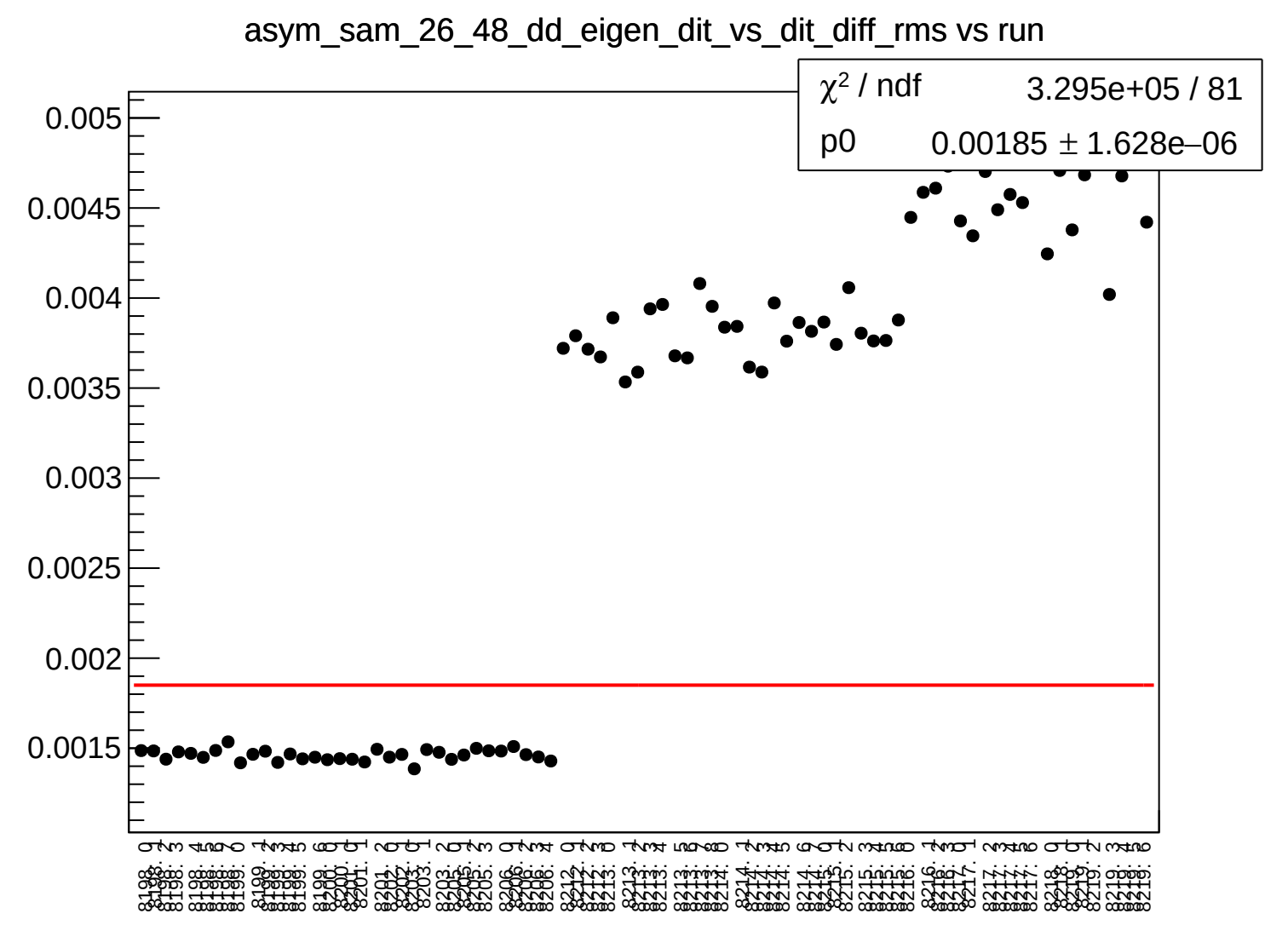

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7415 / 81
p0 61.27 ± 0.04823
85
80
75
70
65
60
55
50

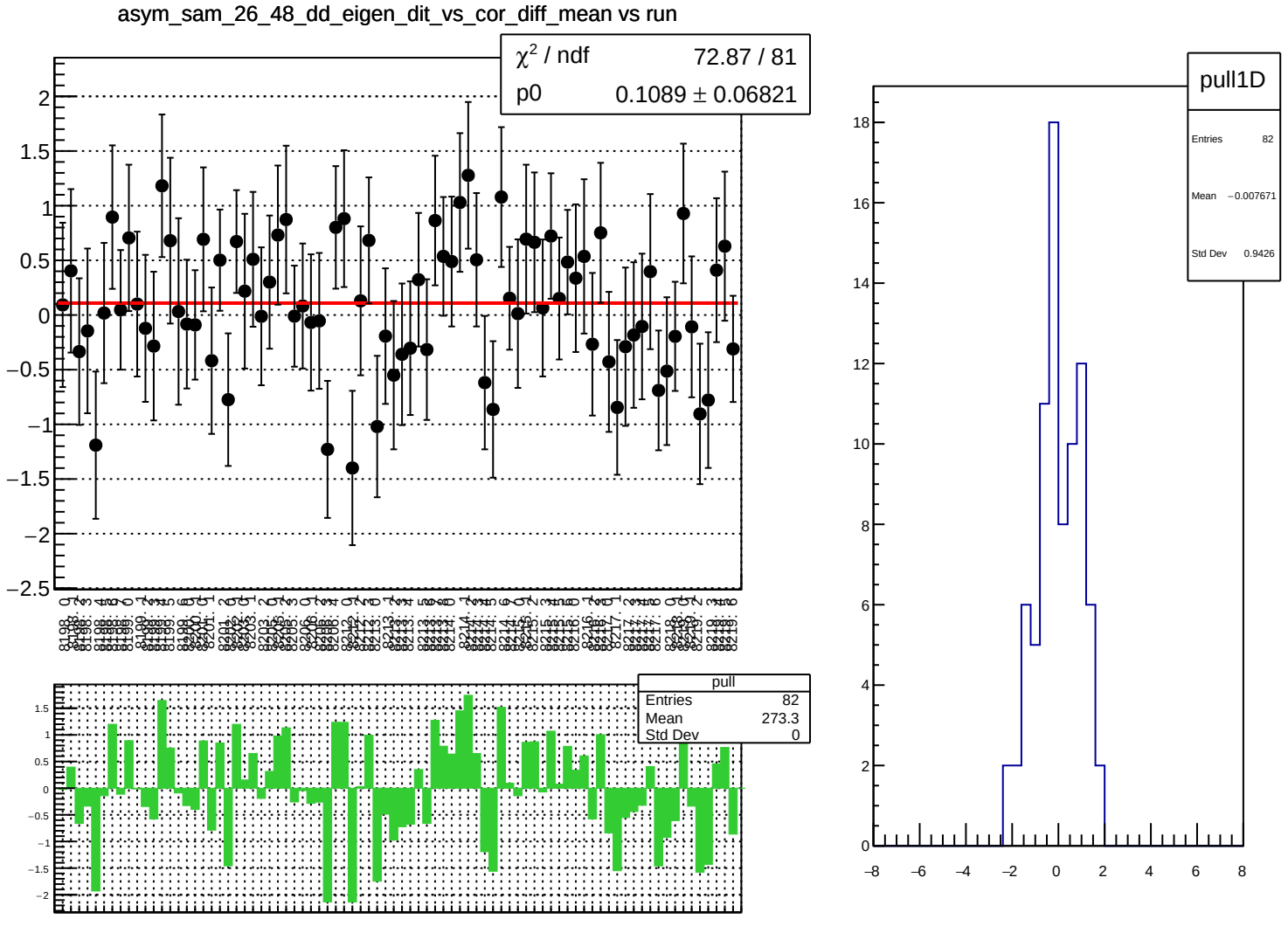

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.86 / 81
p0 0.1089 ± 0.06821
pull
Entries 82
Mean 273.3
Std Dev 0
pull1D
Entries 82
Mean −0.00767
Std Dev 0.9426

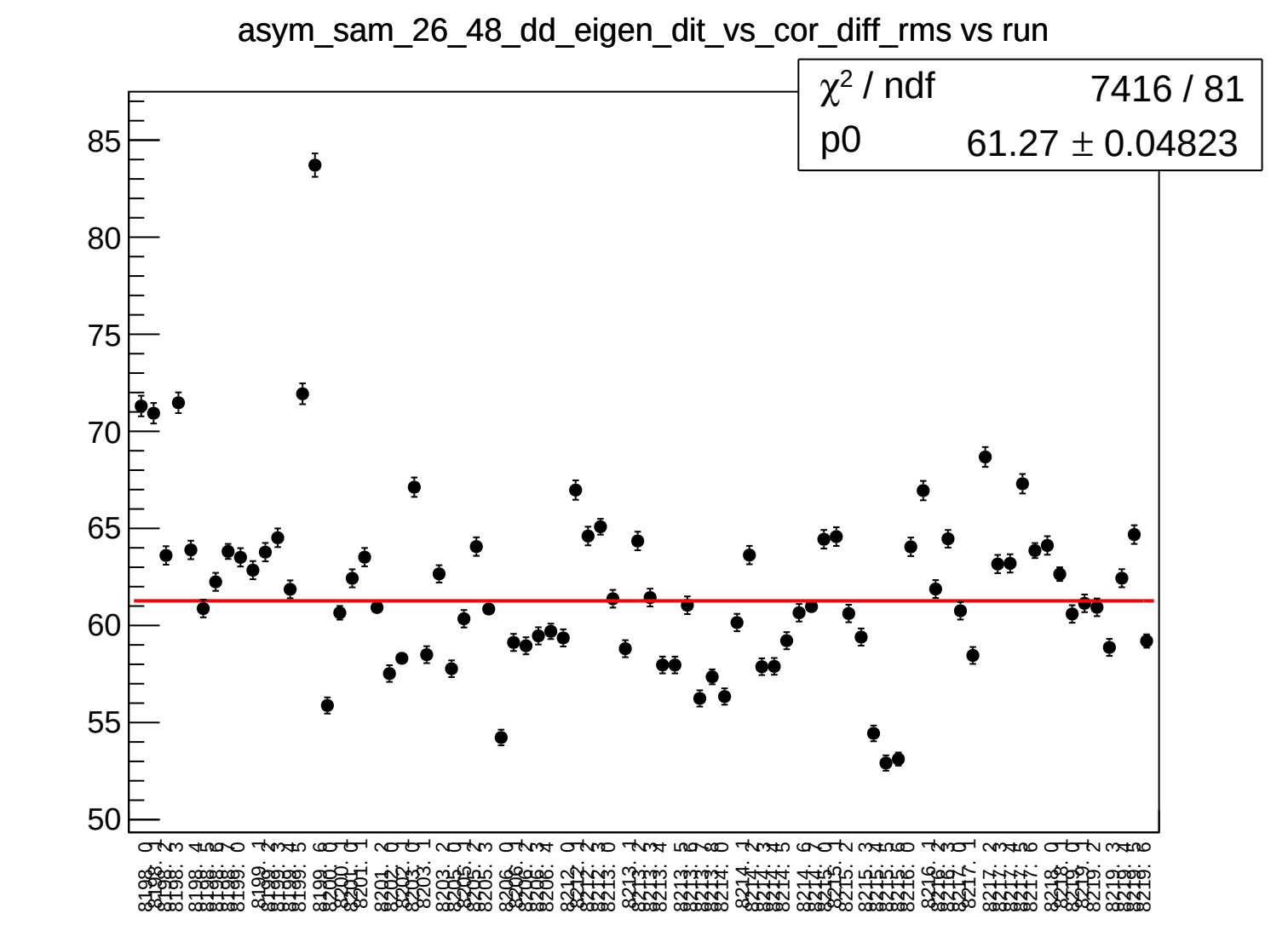

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7415 / 81
p0 61.27 ± 0.04823
85
80
75
70
65
60
55
50

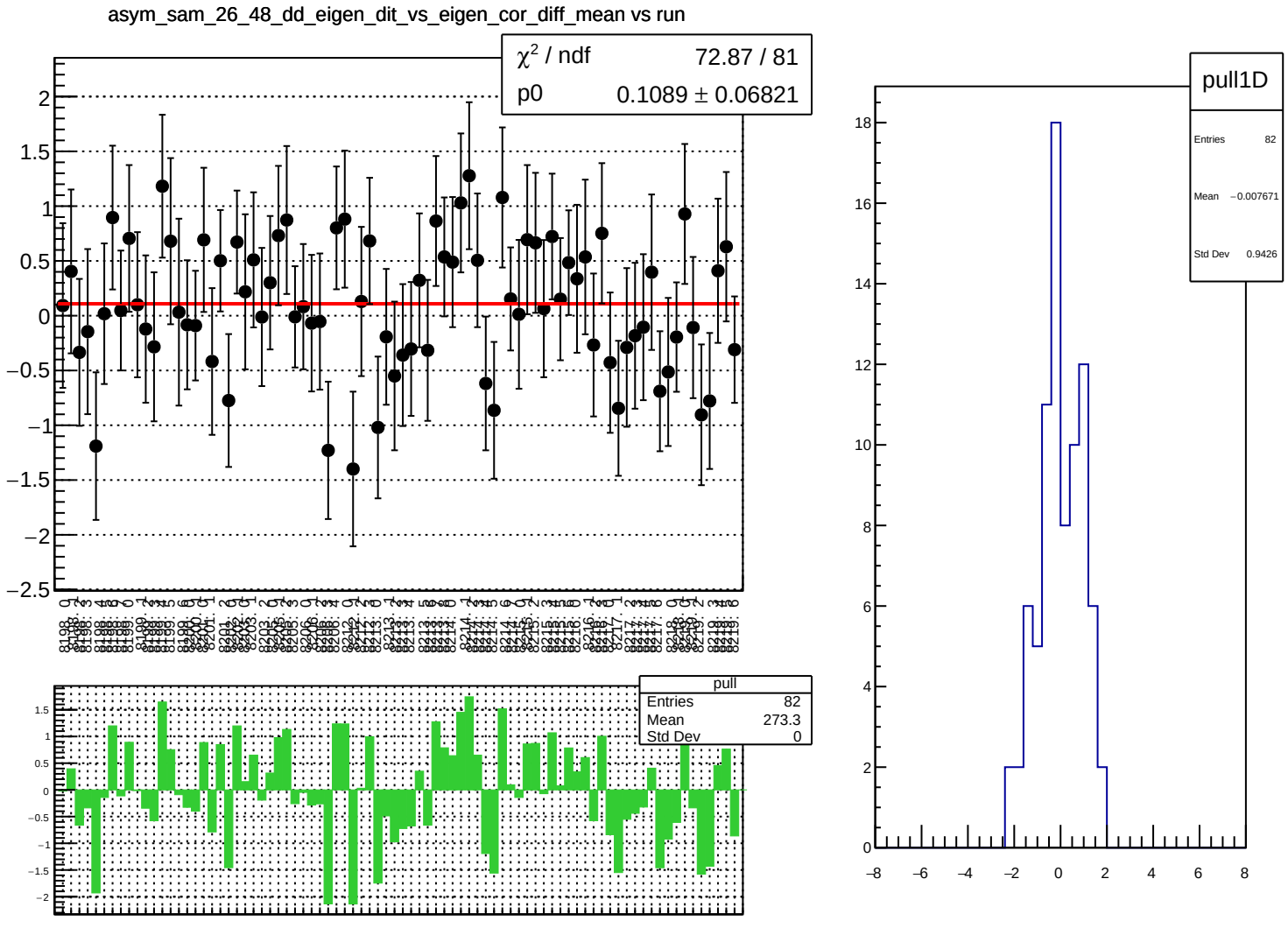

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.16 / 81
p0 −4.832e−07 ± 2.302e−06
pull
Entries 82
Mean 83.84
Std Dev 8.315

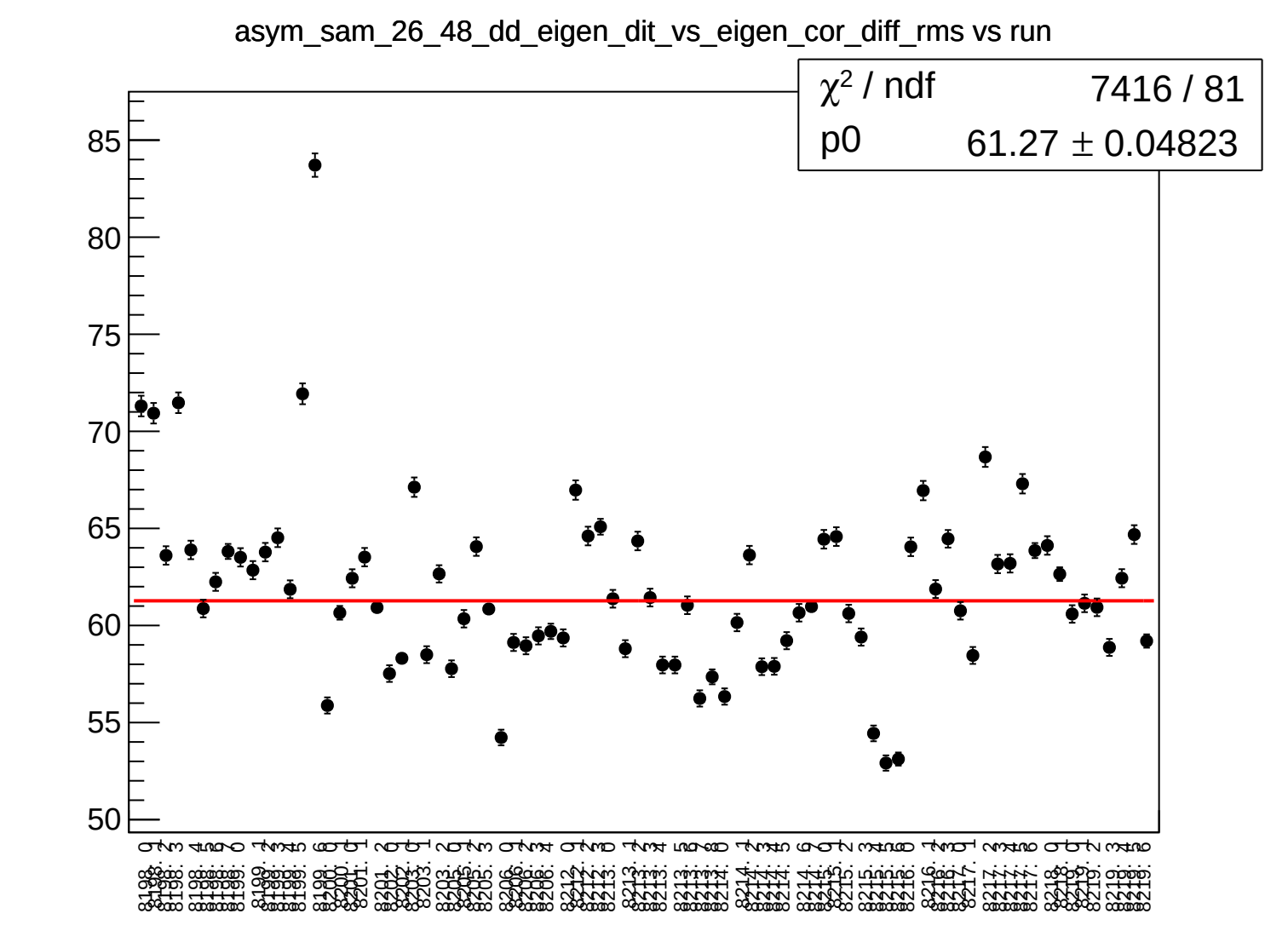

pull1D
Entries 82
Mean −0.01009
Std Dev 1.054

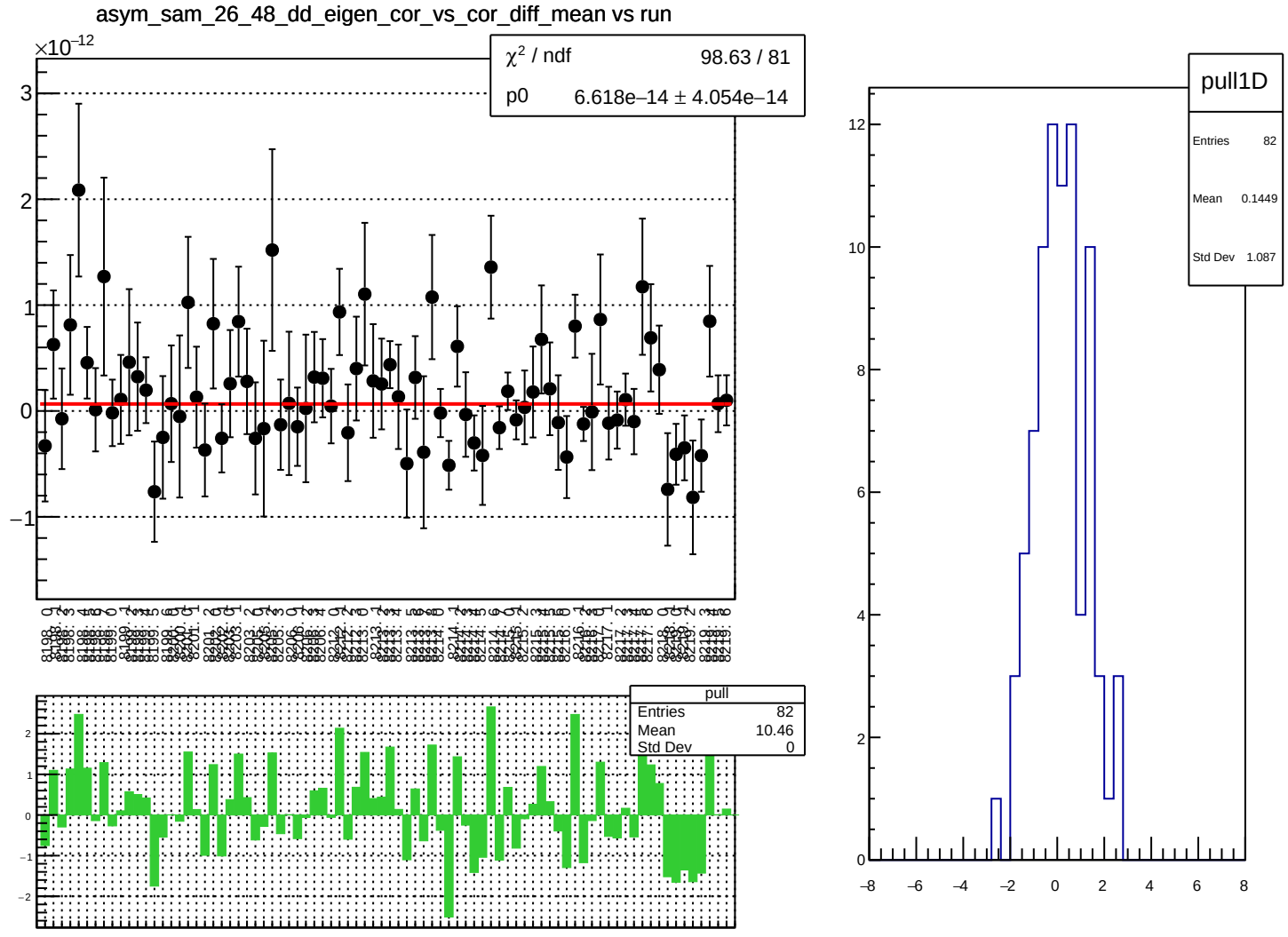

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.295e+05 / 81
p0 0.00185 ± 1.628e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

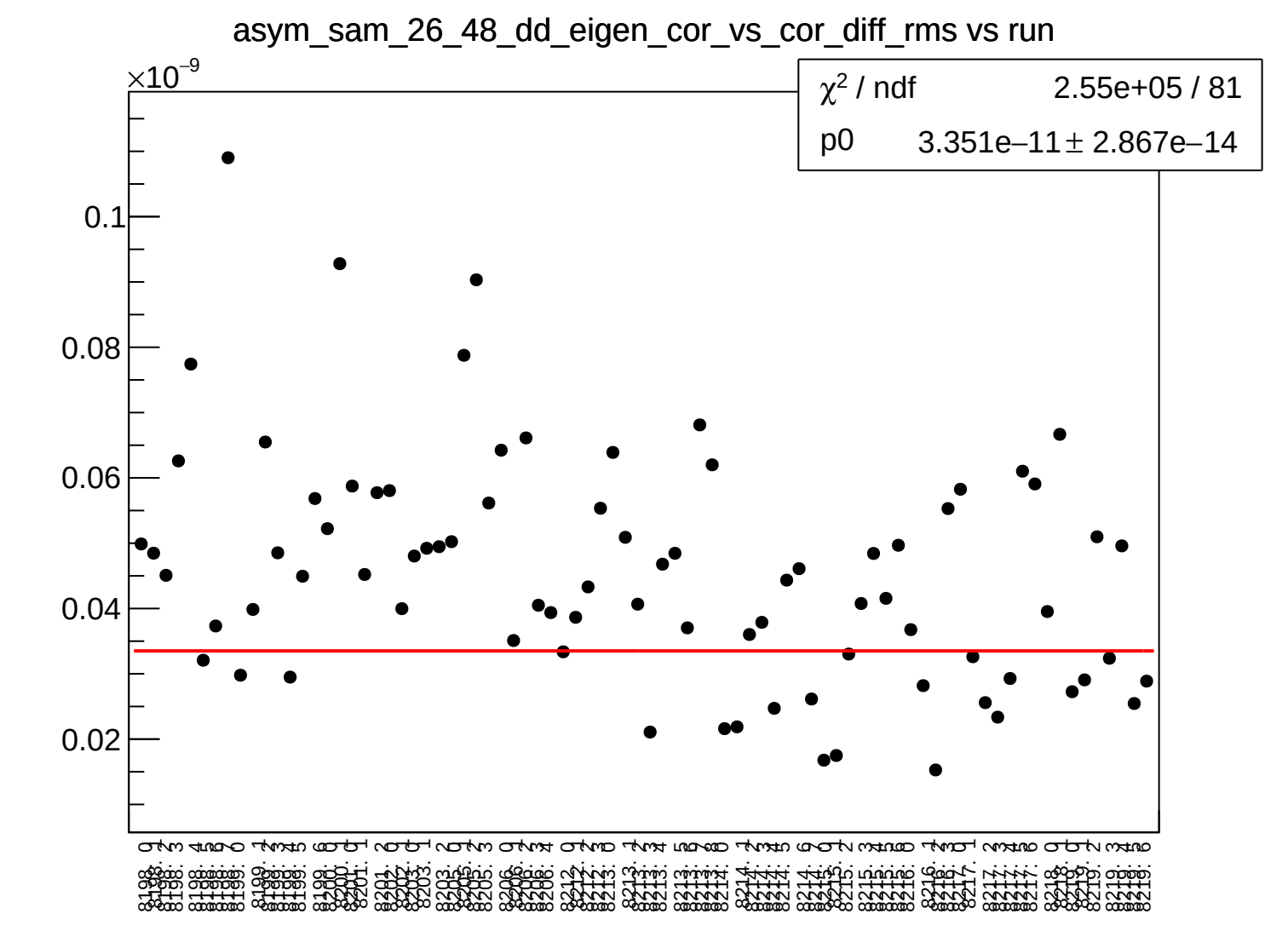

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.87 / 81
p0 0.1089 ± 0.06821
pull
Entries 82
Mean 273.3
Std Dev 0
pull1D
Entries 82
Mean −0.007671
Std Dev 0.9426

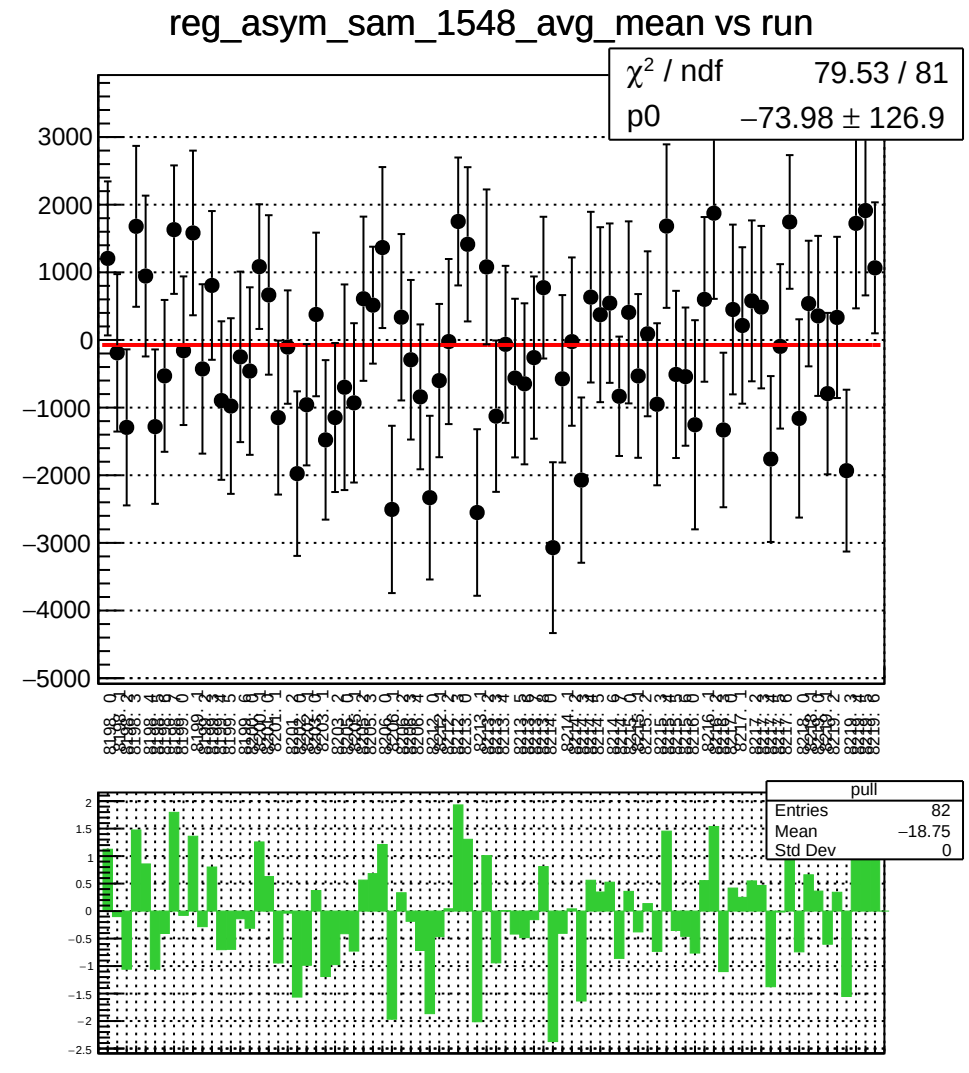

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7416 / 81
p0 61.27 ± 0.04823
85
80
75
70
65
60
55
50

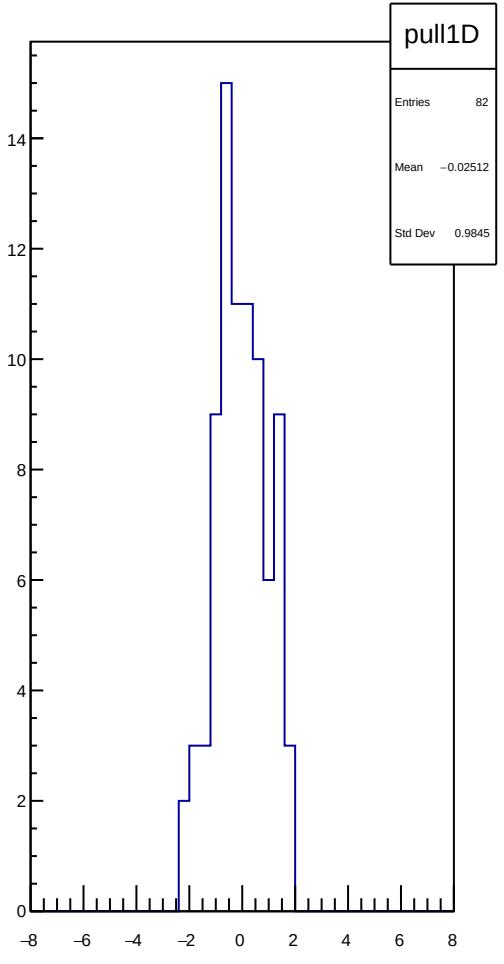

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.87 / 81
p0 0.1089 ± 0.06821
pull
Entries 82
Mean 273.3
Std Dev 0
pull1D
Entries 82
Mean −0.007671
Std Dev 0.9426

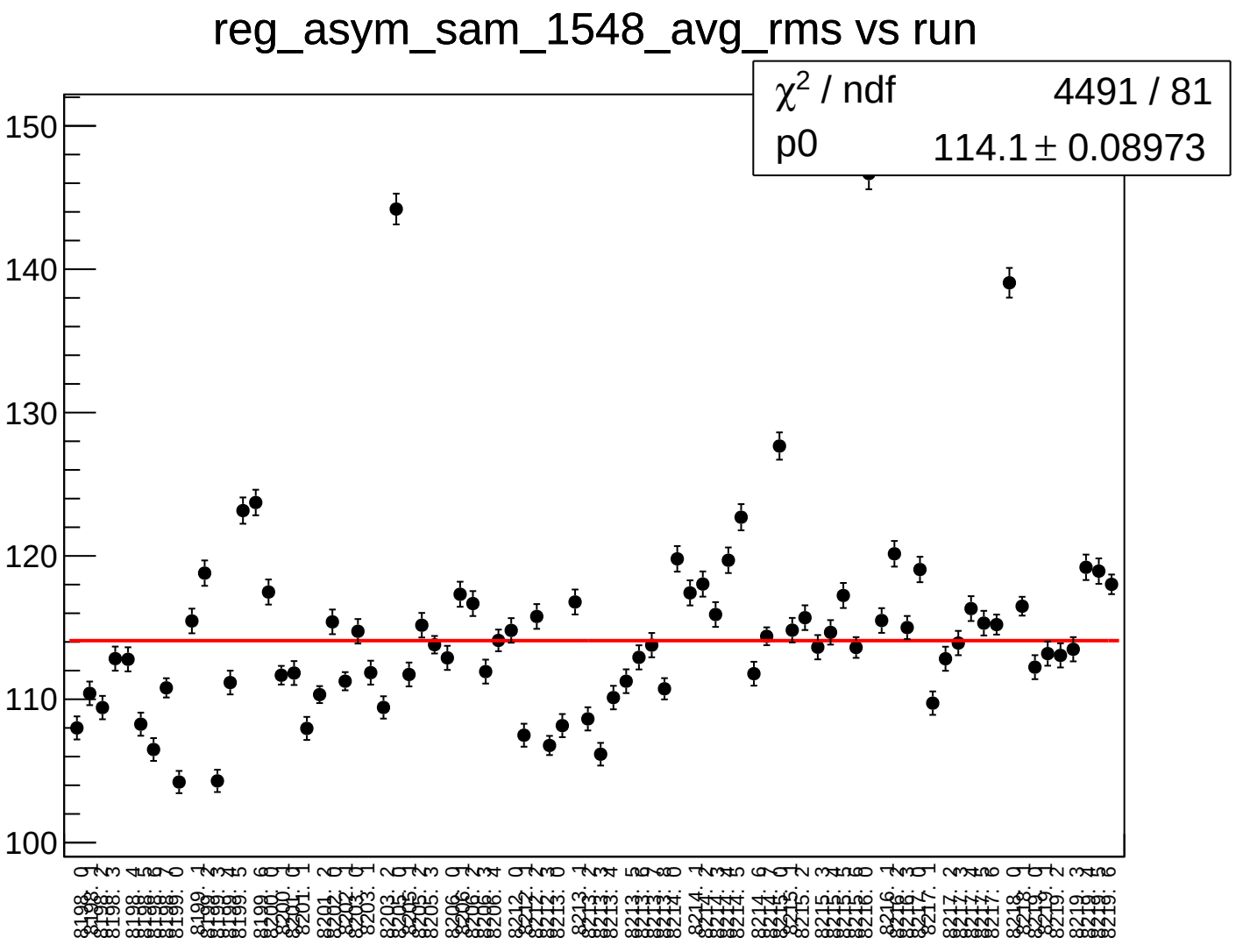

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7416 / 81
p0 61.27 ± 0.04823
85
80
75
70
65
60
55
50

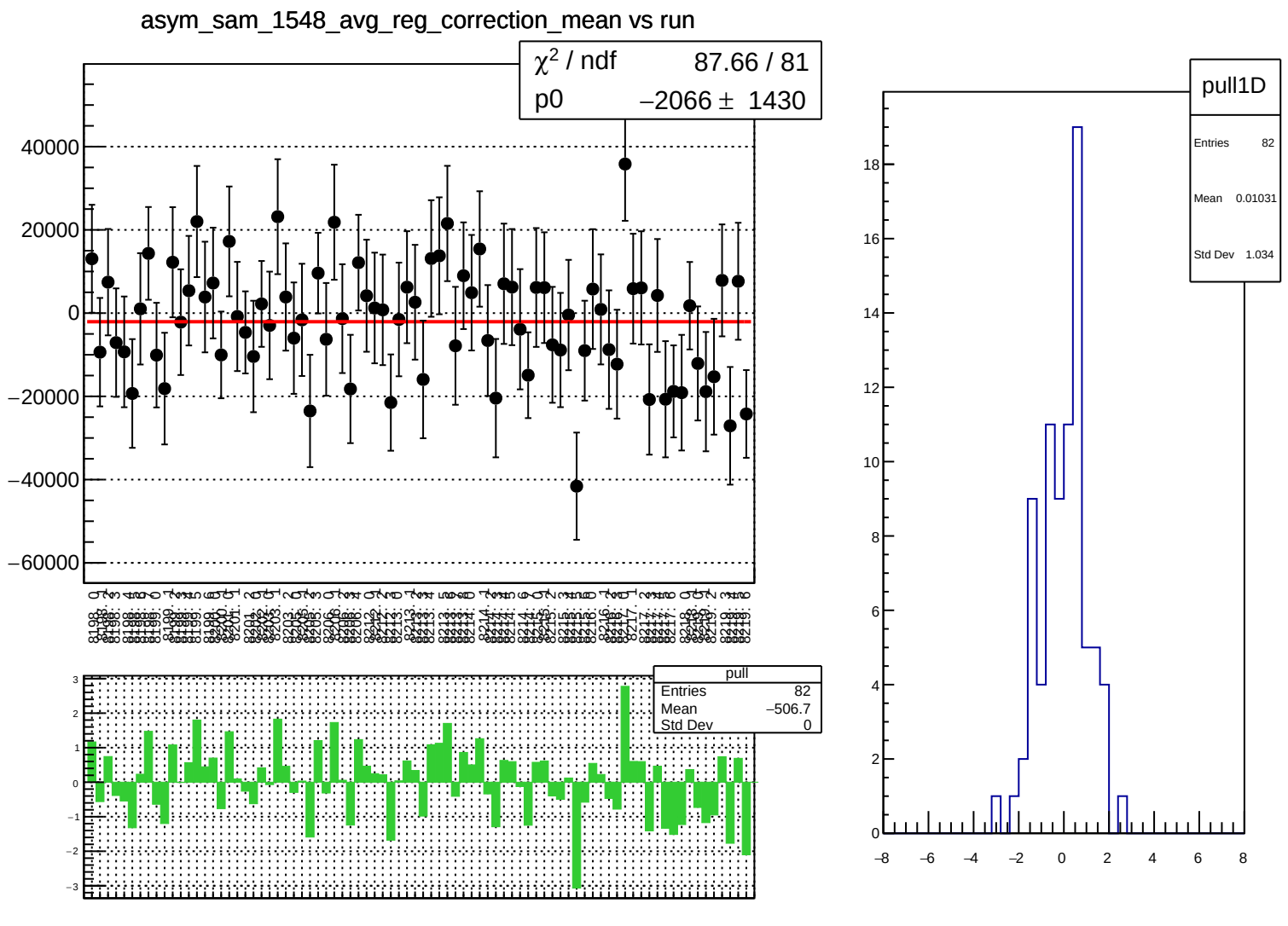

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.63 / 81
p0 6.618e−14 ± 4.054e−14
pull
Entries 82
Mean 10.46
Std Dev 0
pull1D
Entries 82
Mean 0.1449
Std Dev 1.087

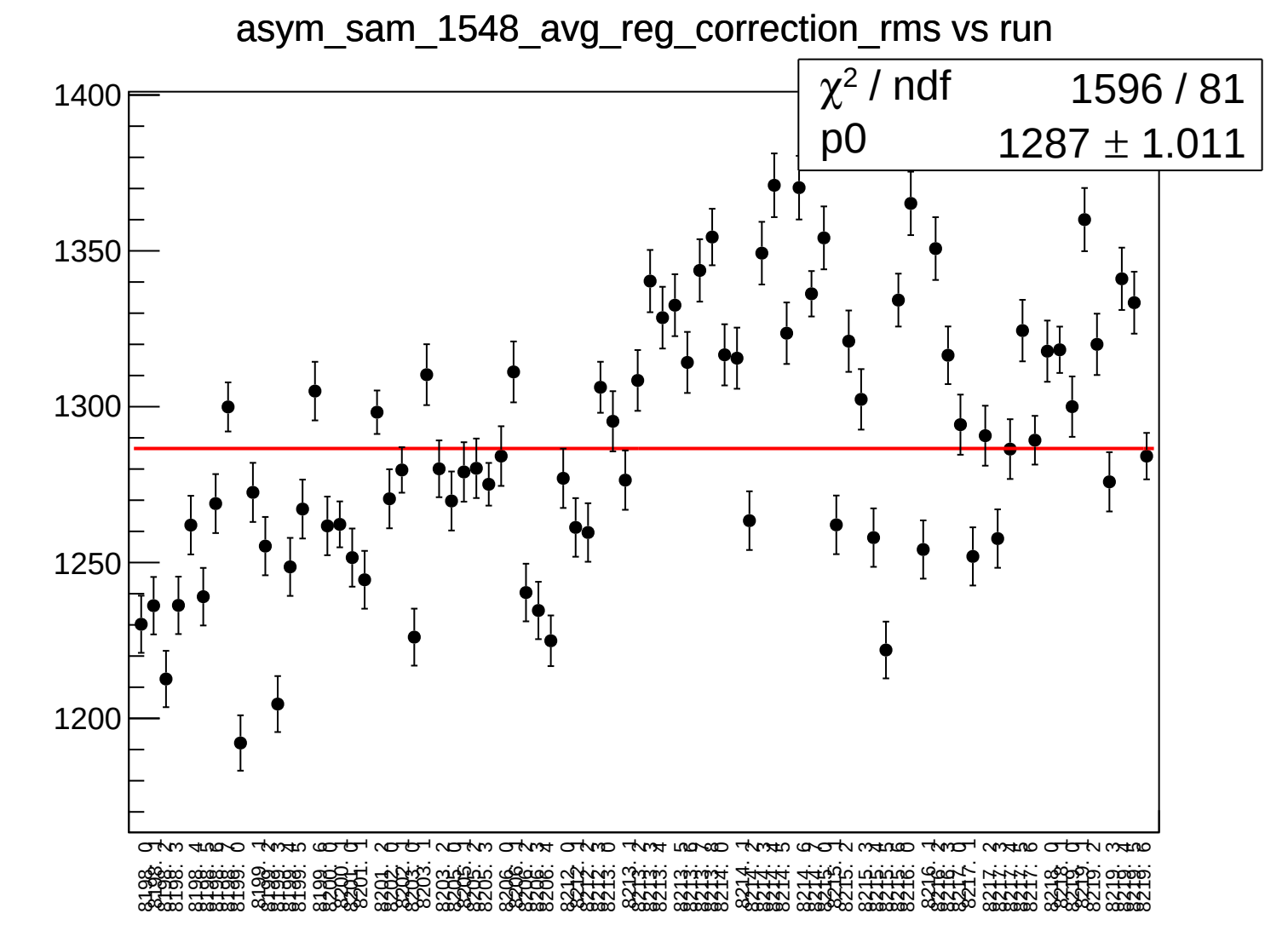

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.55e+05 / 81
p0 3.351e−11 ± 2.867e−14
0.1
0.08
0.06
0.04
0.02

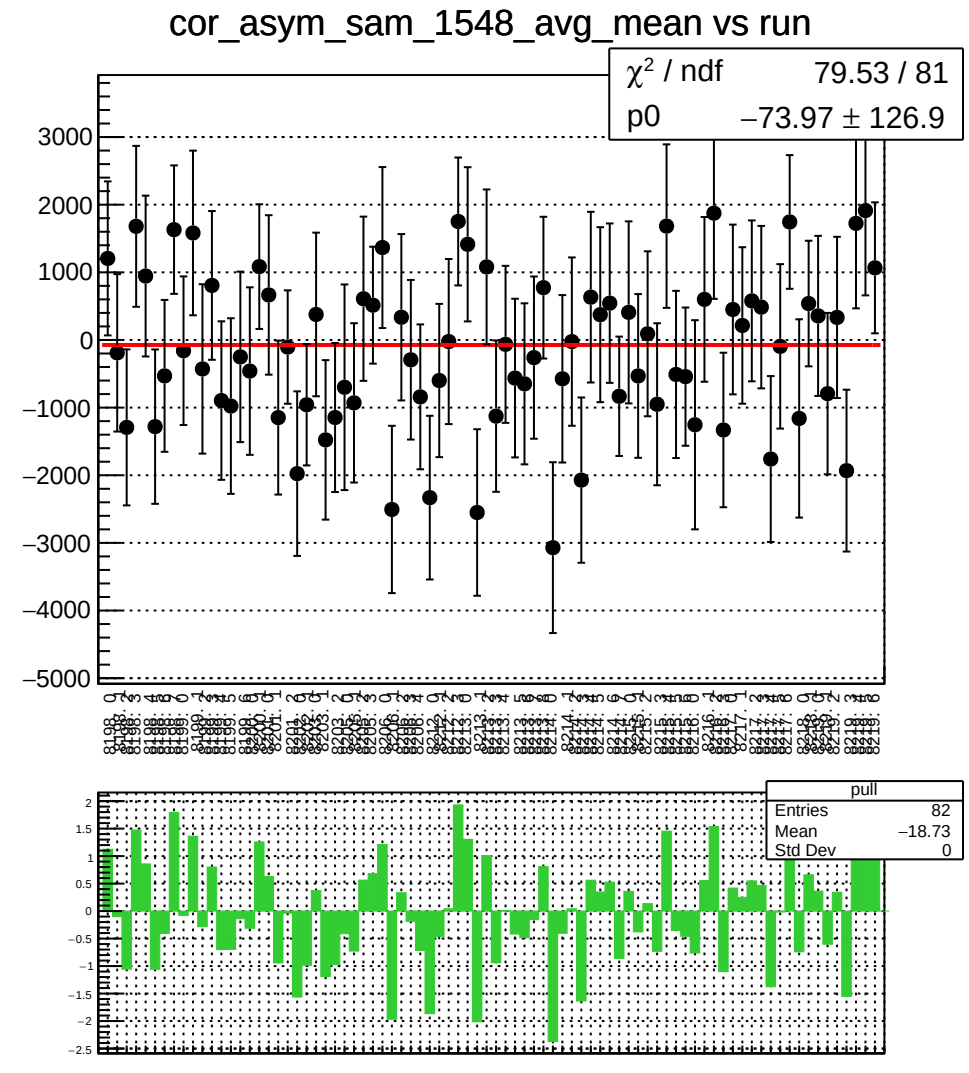

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 79.53 / 81
p0 −73.98 ± 126.9
pull
Entries 82
Mean −18.75
Std Dev 0

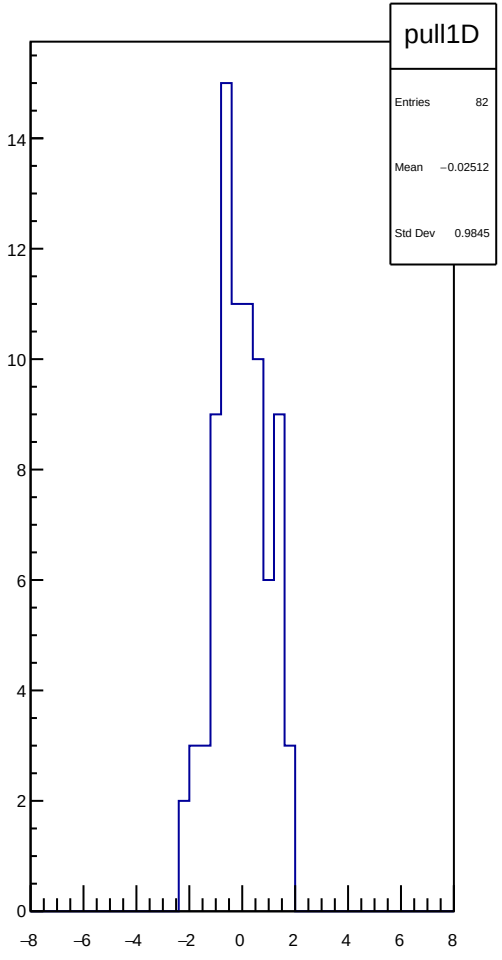

pull1D
Entries 82
Mean −0.02512
Std Dev 0.9845

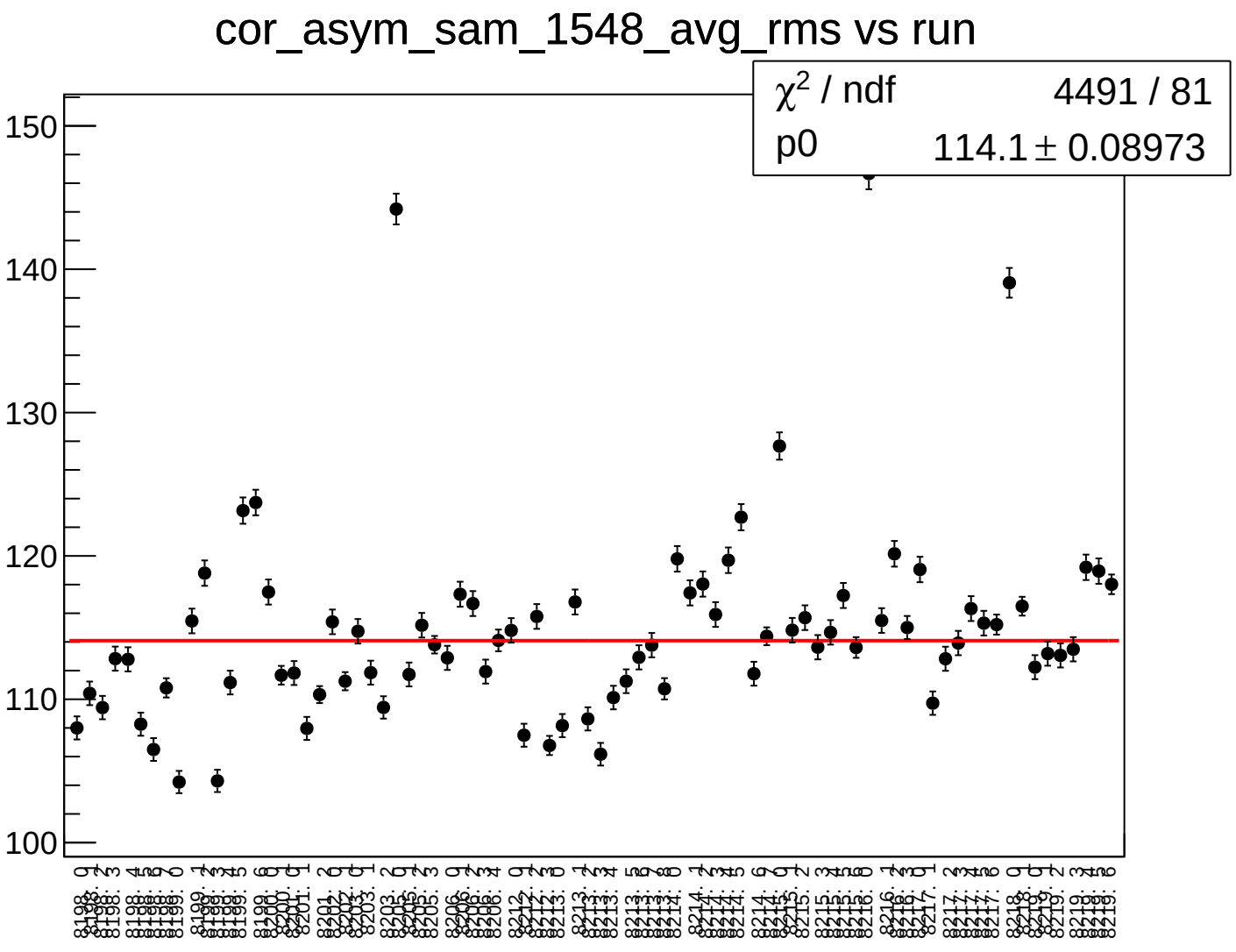

reg_asym_sam_1548_avg_rms vs run
$\chi^2$ / ndf 4491 / 81
p0 114.1 ± 0.08973
150
140
130
120
110
100

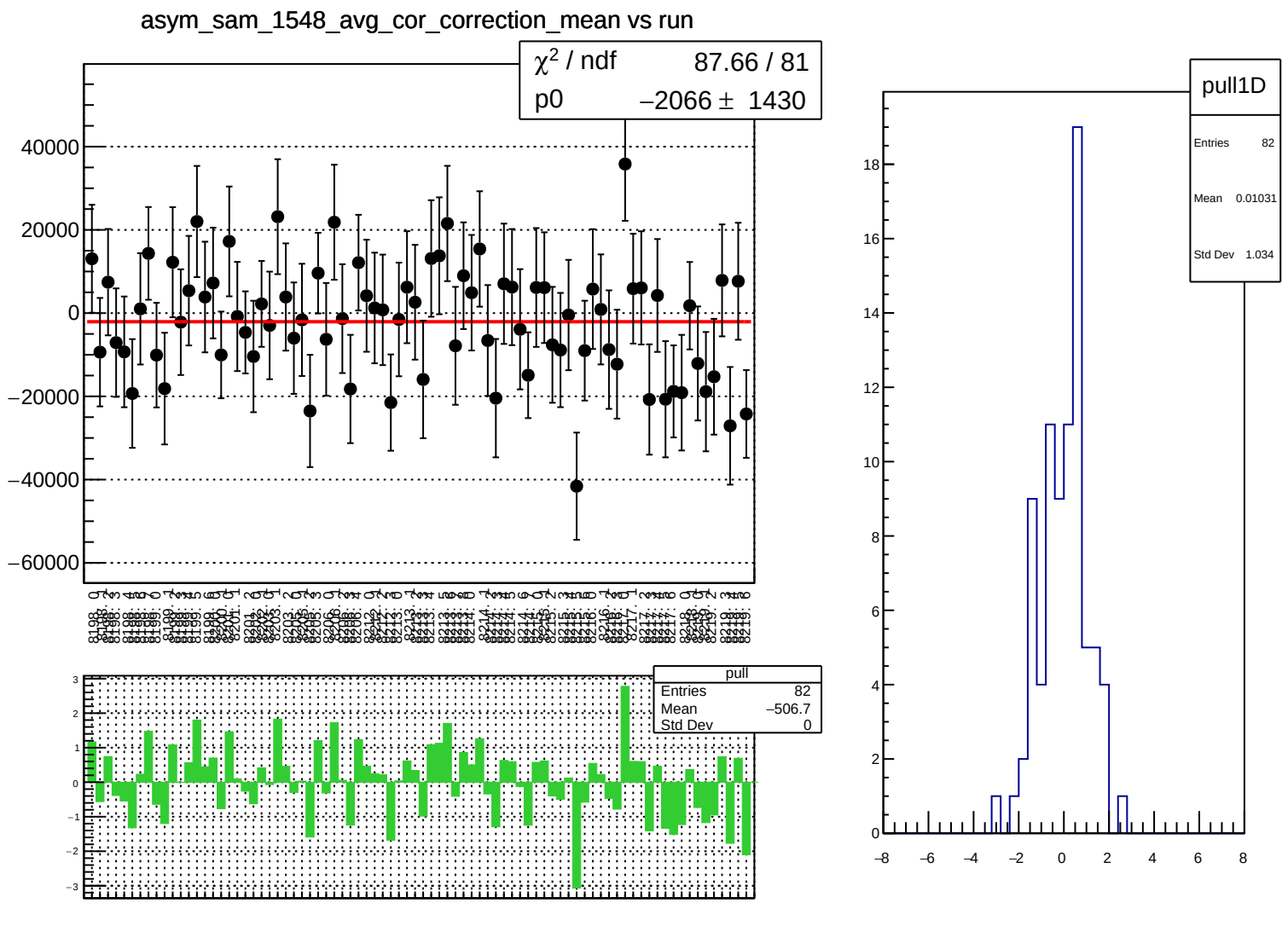

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 87.66 / 81
p0 −2066 ± 1430
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −506.7
Std Dev 0
pull1D
Entries 82
Mean 0.01031
Std Dev 1.034

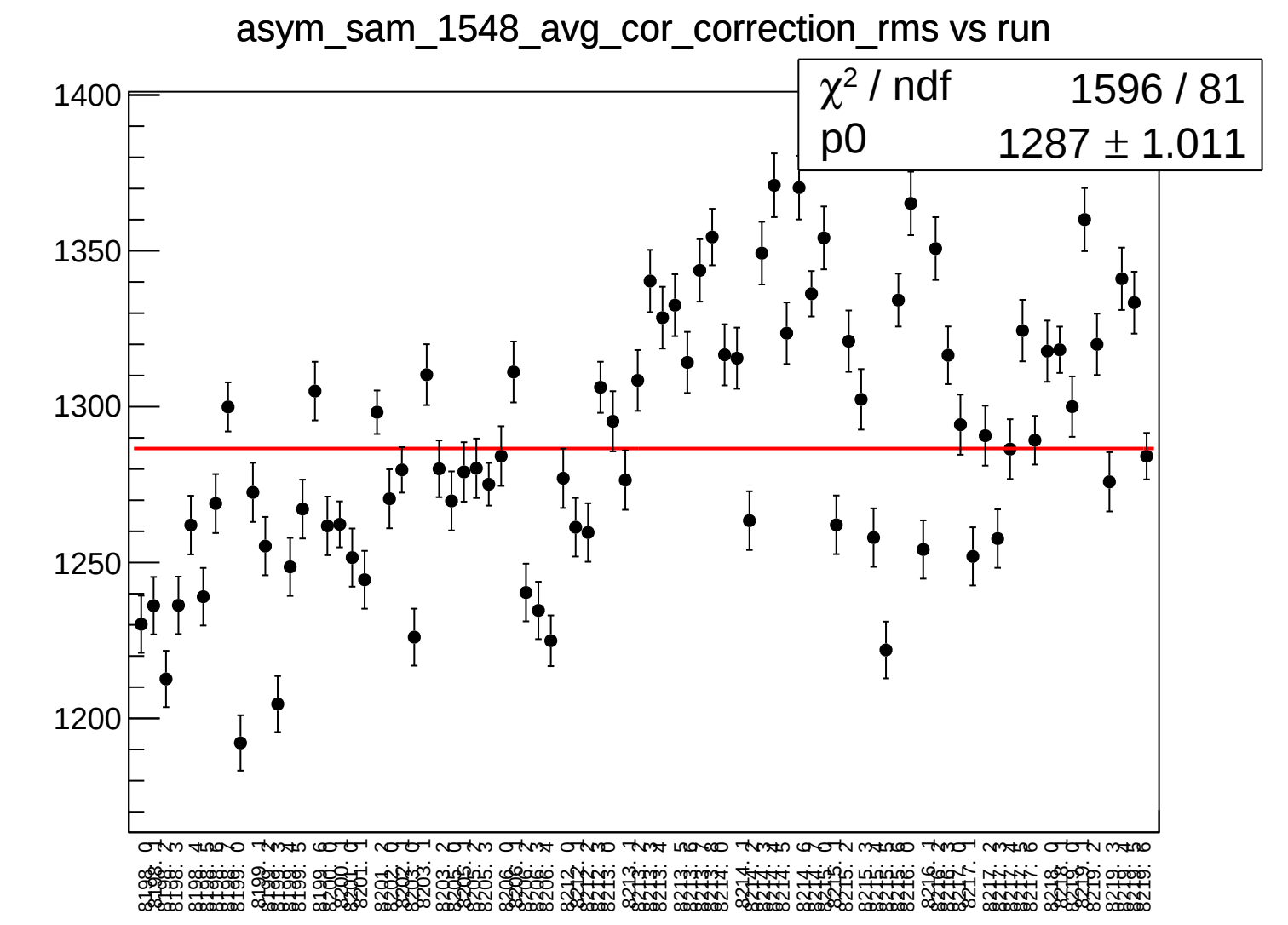

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1596 / 81
p0 1287 ± 1.011
1400
1350
1300
1250
1200

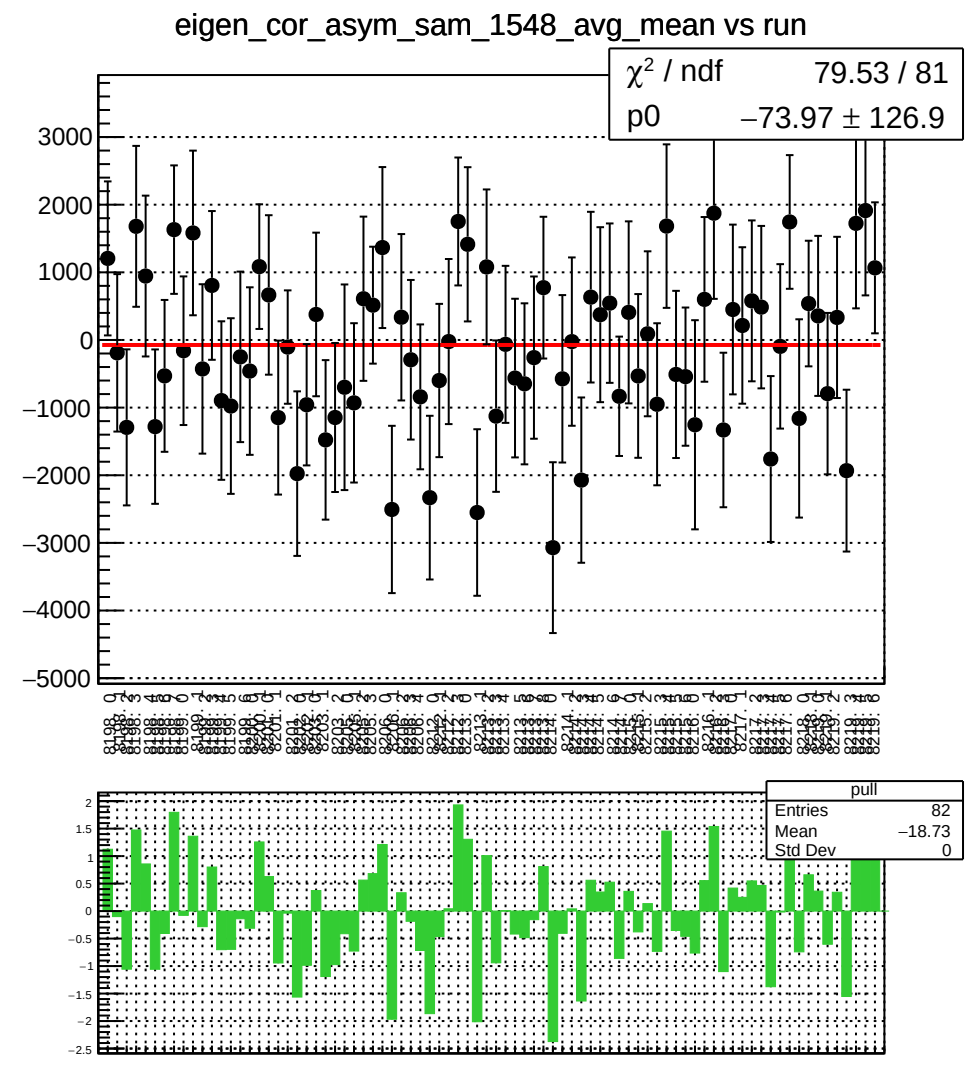

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 79.53 / 81
p0 −73.97 ± 126.9
pull
Entries 82
Mean −18.73
Std Dev 0

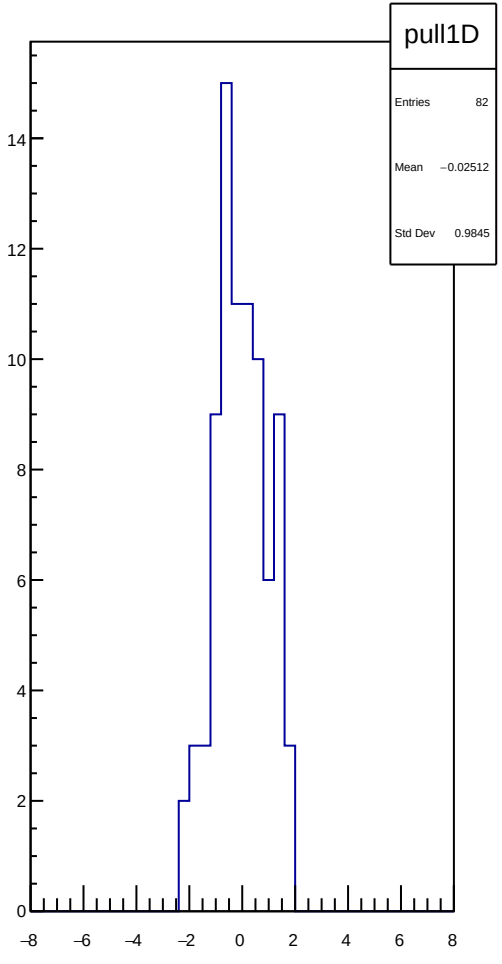

pull1D
Entries 82
Mean −0.02512
Std Dev 0.9845

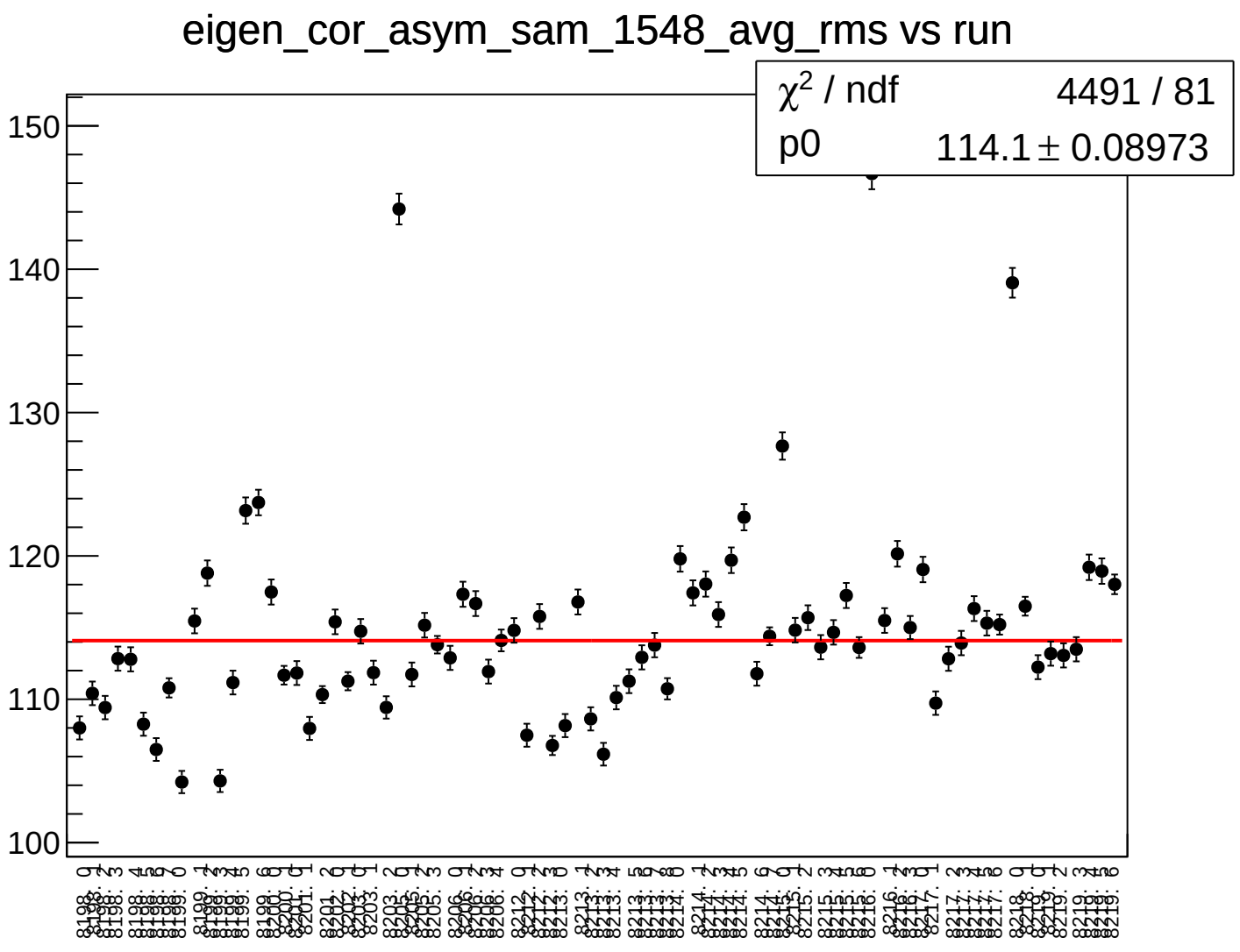

cor_asym_sam_1548_avg_rms vs run
$\chi^2$ / ndf 4491 / 81
p0 114.1 ± 0.08973
150
140
130
120
110
100

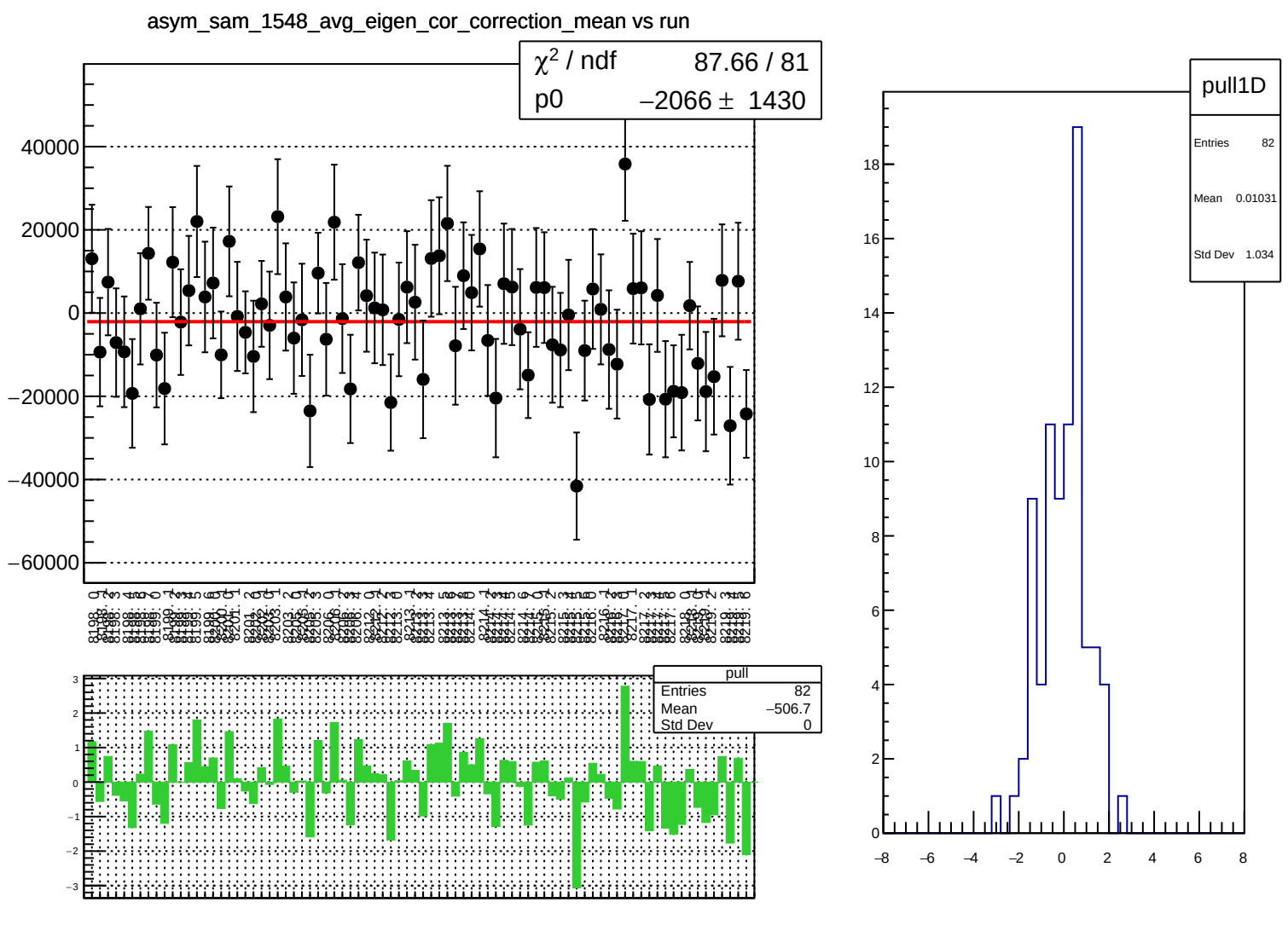

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 87.66 / 81
p0 −2066 ± 1430
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −506.7
Std Dev 0
pull1D
Entries 82
Mean 0.01031
Std Dev 1.034

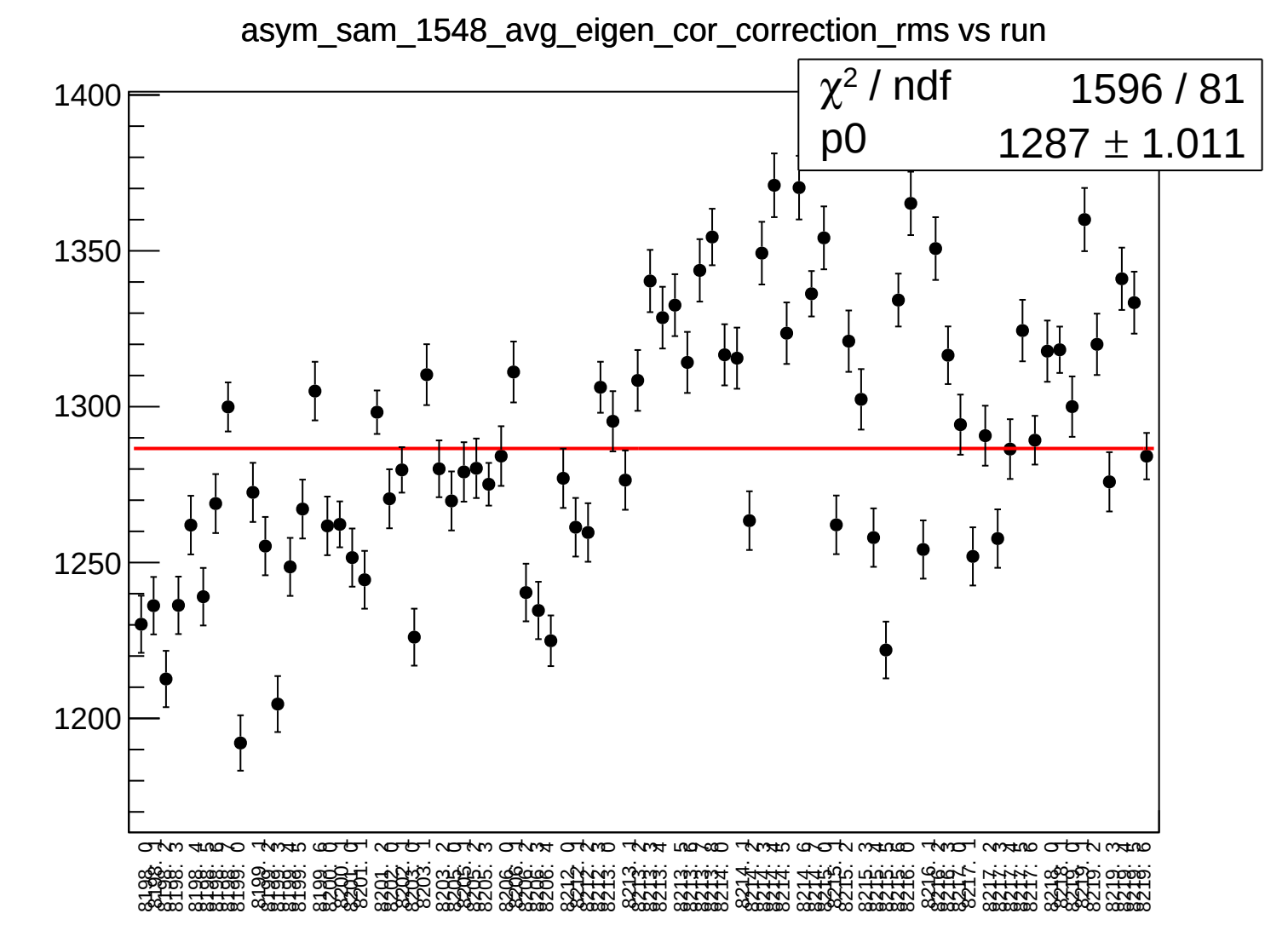

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1596 / 81
p0 1287 ± 1.011
1400
1350
1300
1250
1200

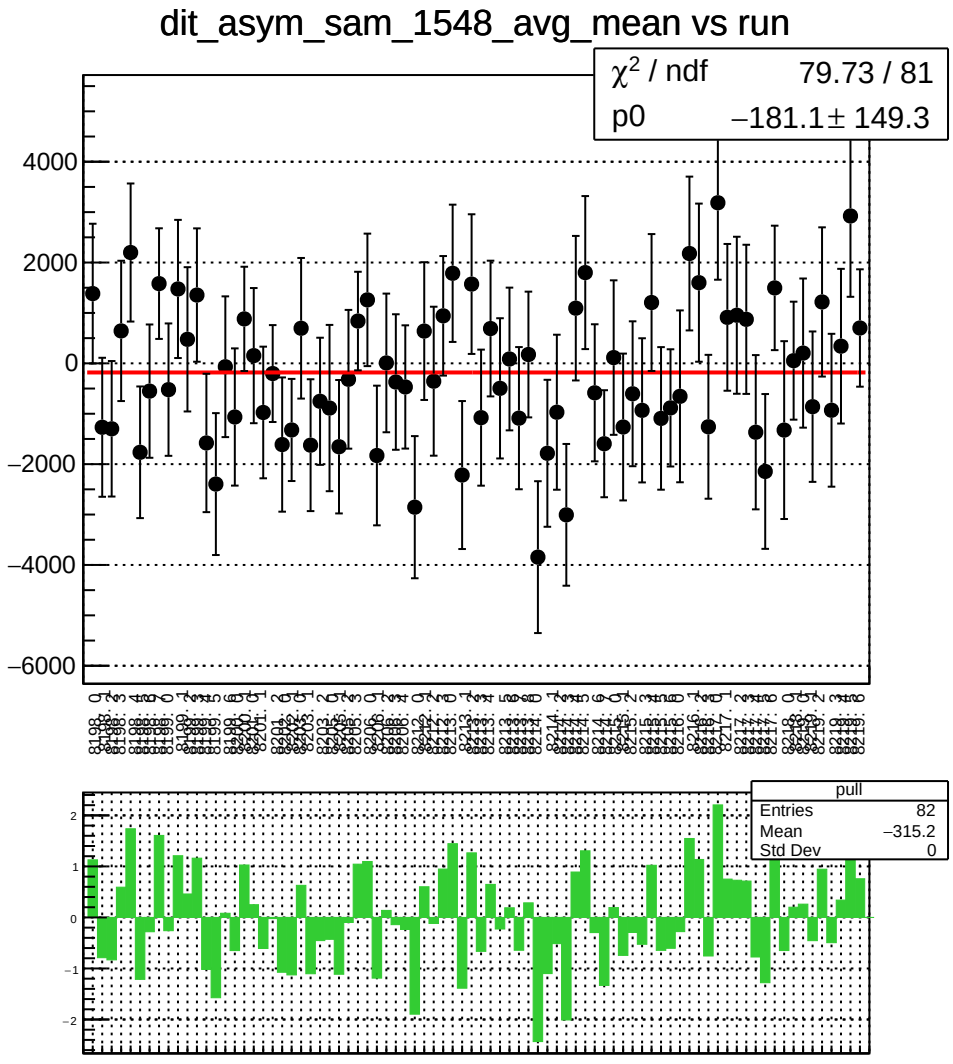

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 79.53 / 81
p0 −73.97 ± 126.9
pull
Entries 82
Mean −18.73
Std Dev 0

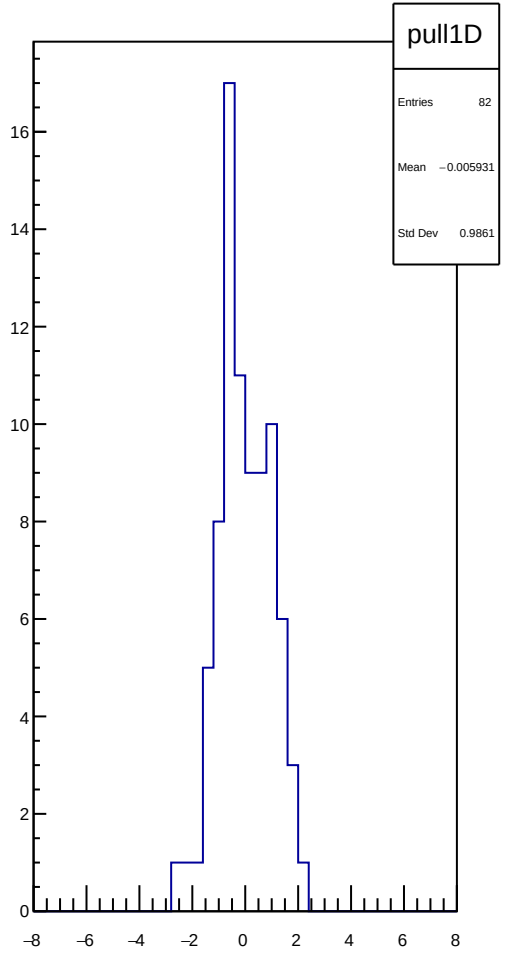

pull1D
Entries 82
Mean −0.02512
Std Dev 0.9845

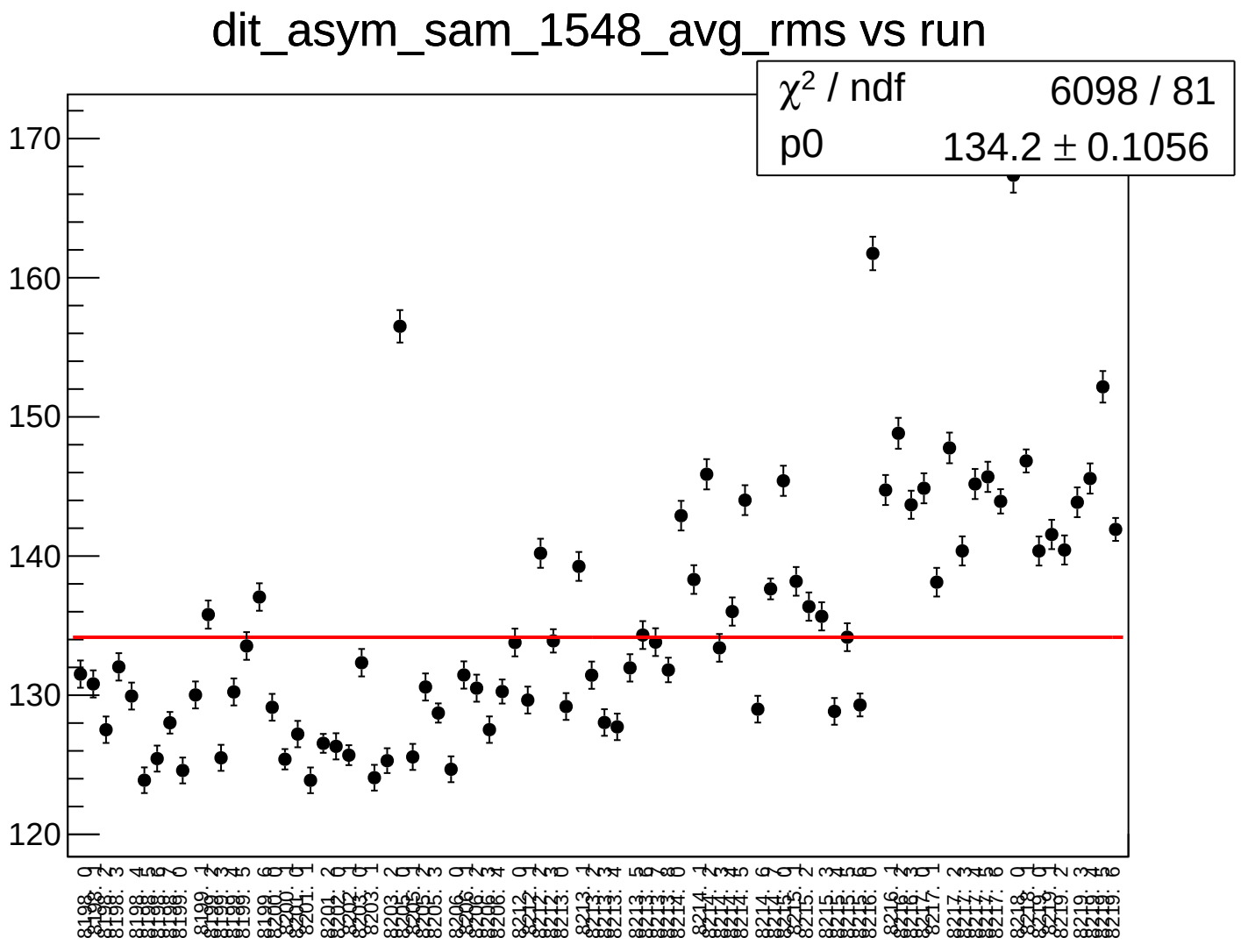

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 4491 / 81
p0 114.1 ± 0.08973
150
140
130
120
110
100

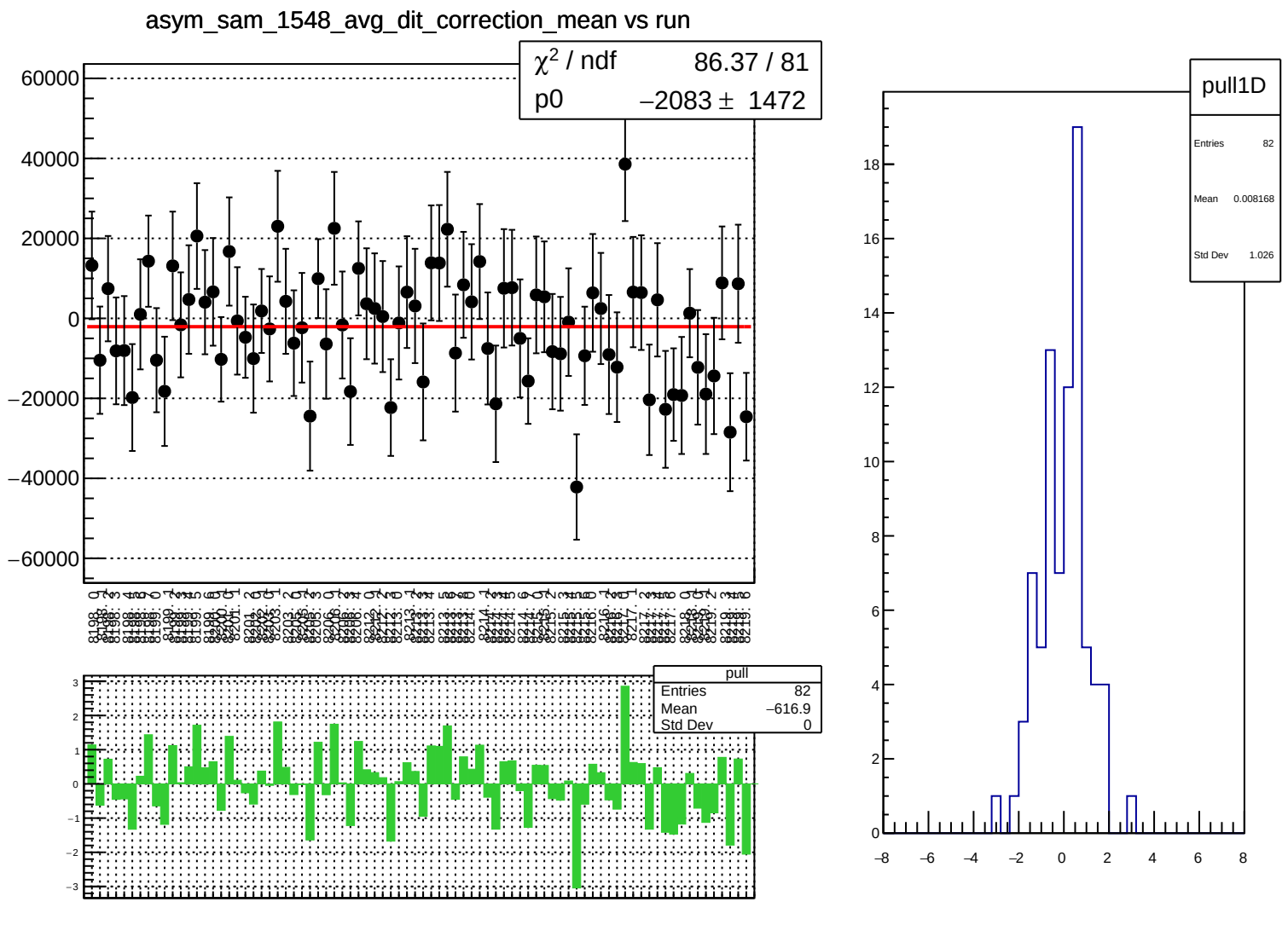

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.66 / 81
p0 −2066 ± 1430
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −506.7
Std Dev 0
pull1D
Entries 82
Mean 0.01031
Std Dev 1.034

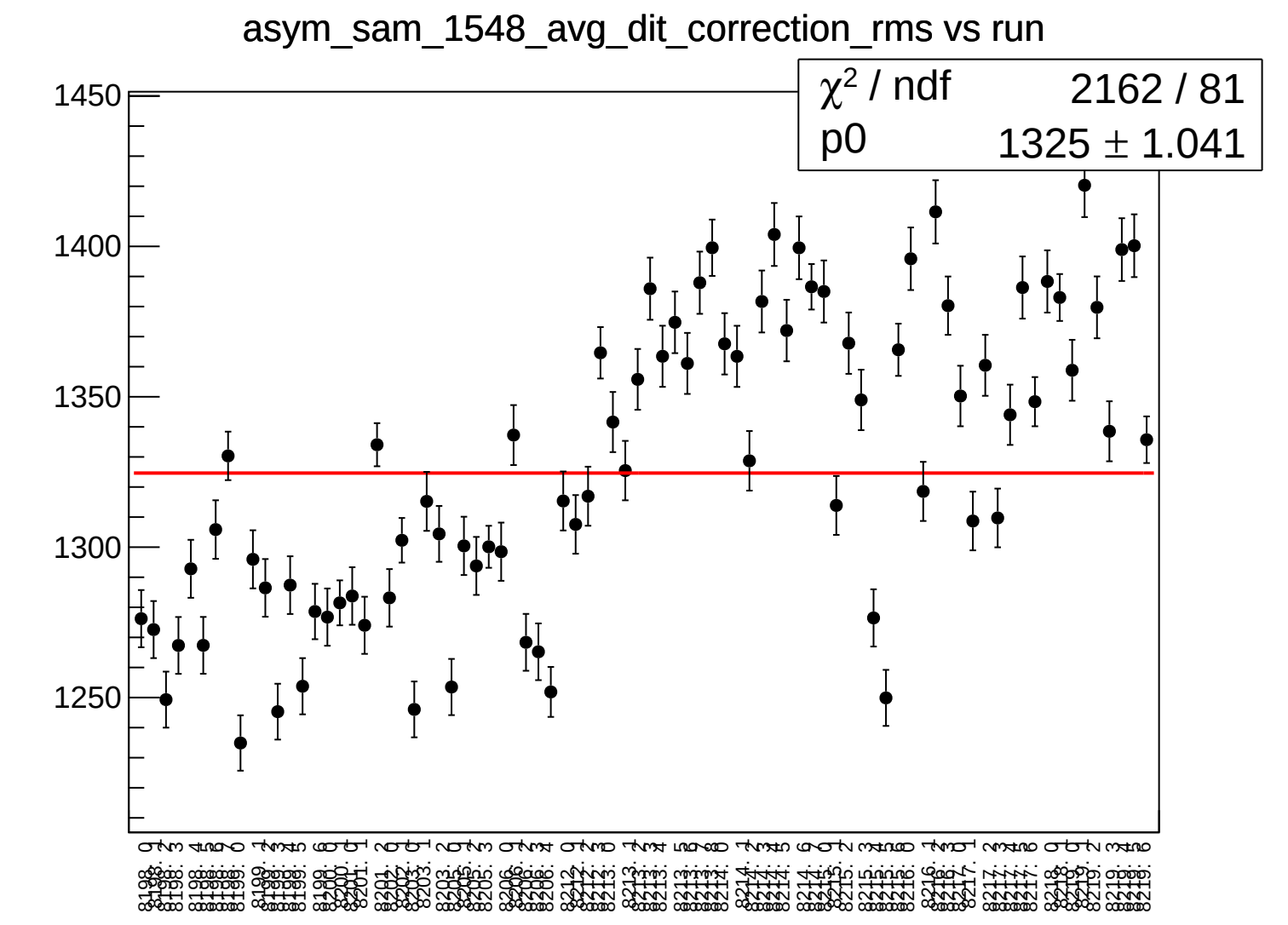

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1596 / 81
p0 1287 ± 1.011
1400
1350
1300
1250
1200

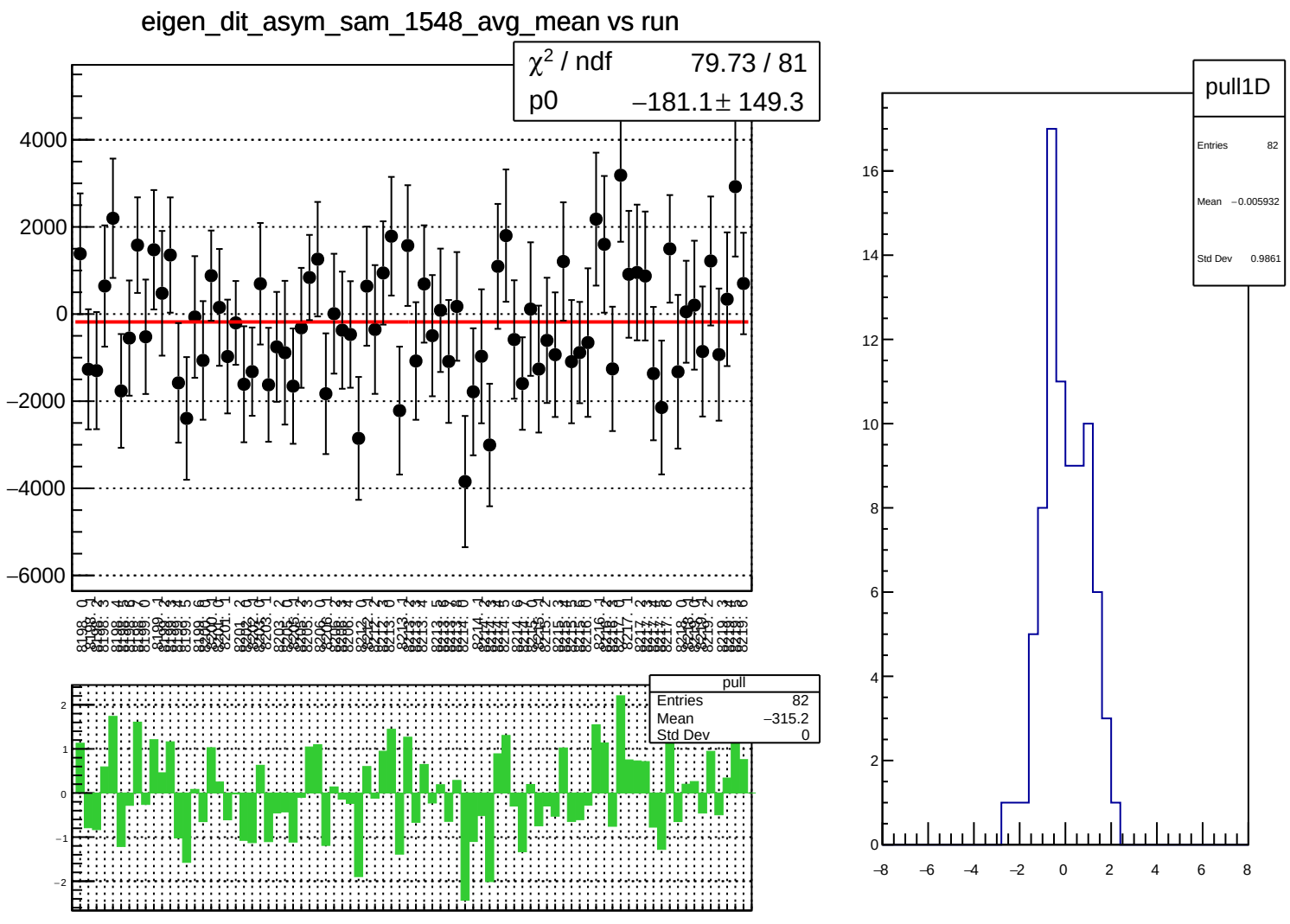

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 79.73 / 81
p0 −181.1± 149.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −315.2
Std Dev 0
2
1
0
−1
−2

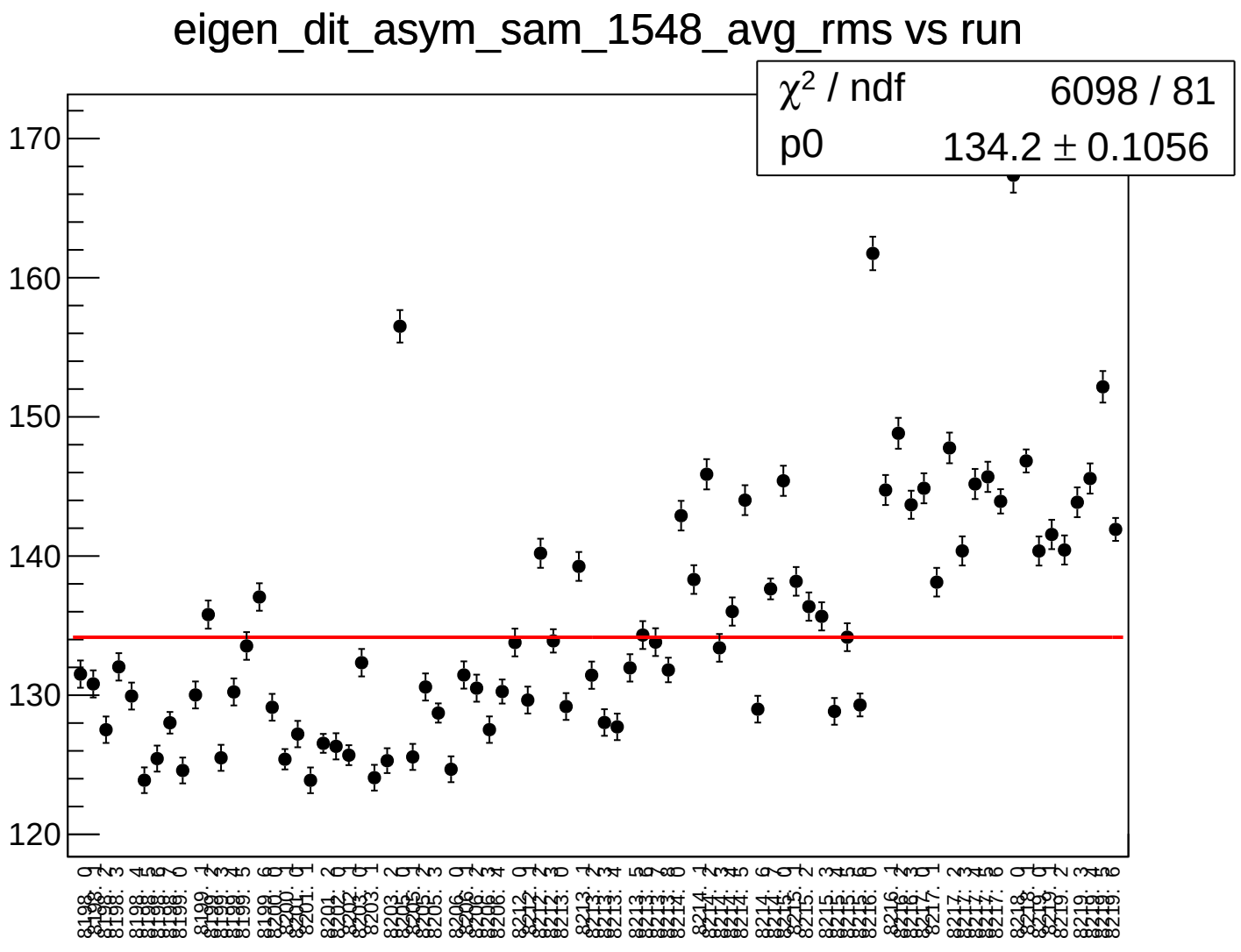

pull1D
Entries 82
Mean −0.005931
Std Dev 0.9861
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

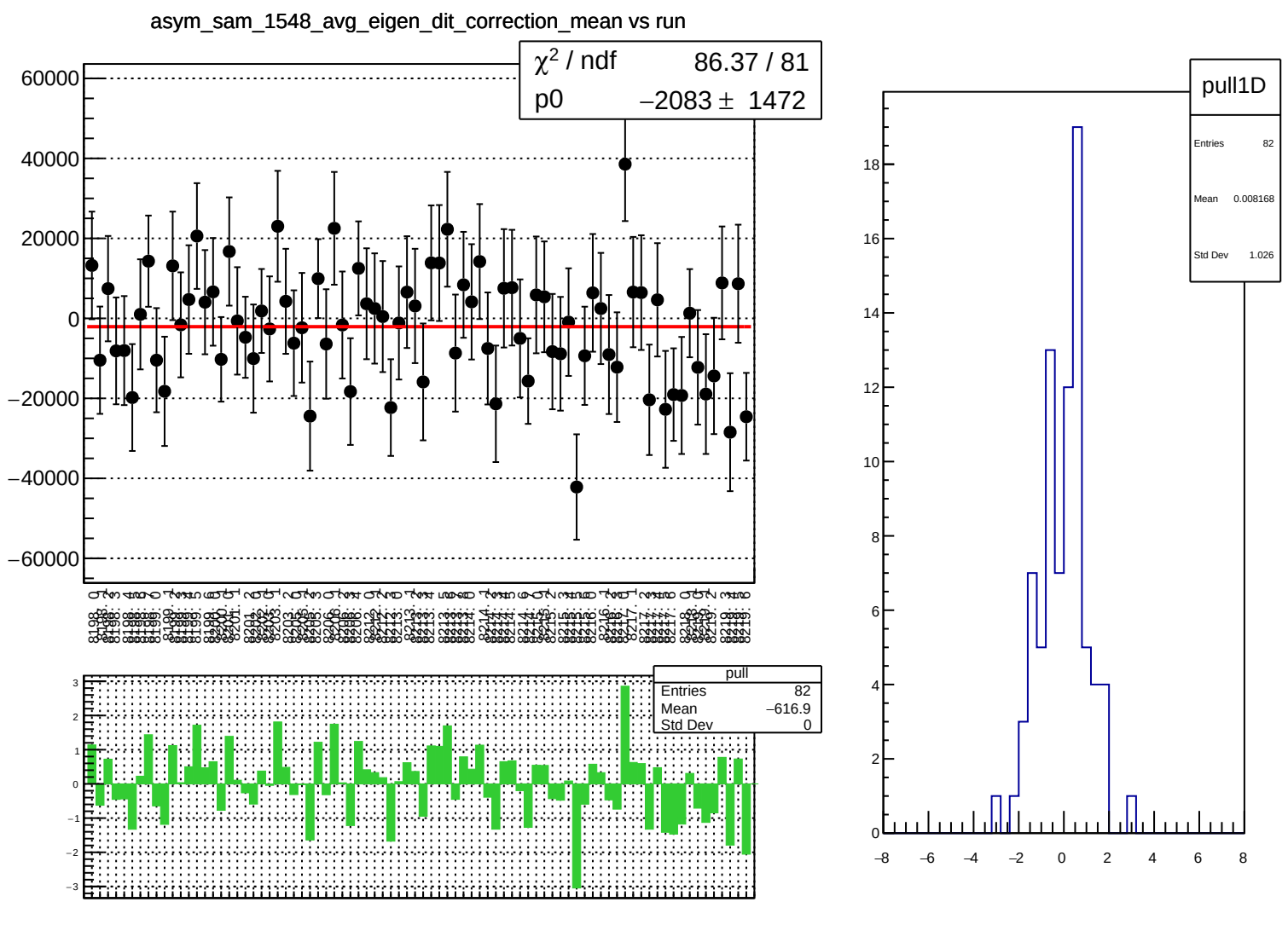

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 6098 / 81
p0 134.2 ± 0.1056
170
160
150
140
130
120

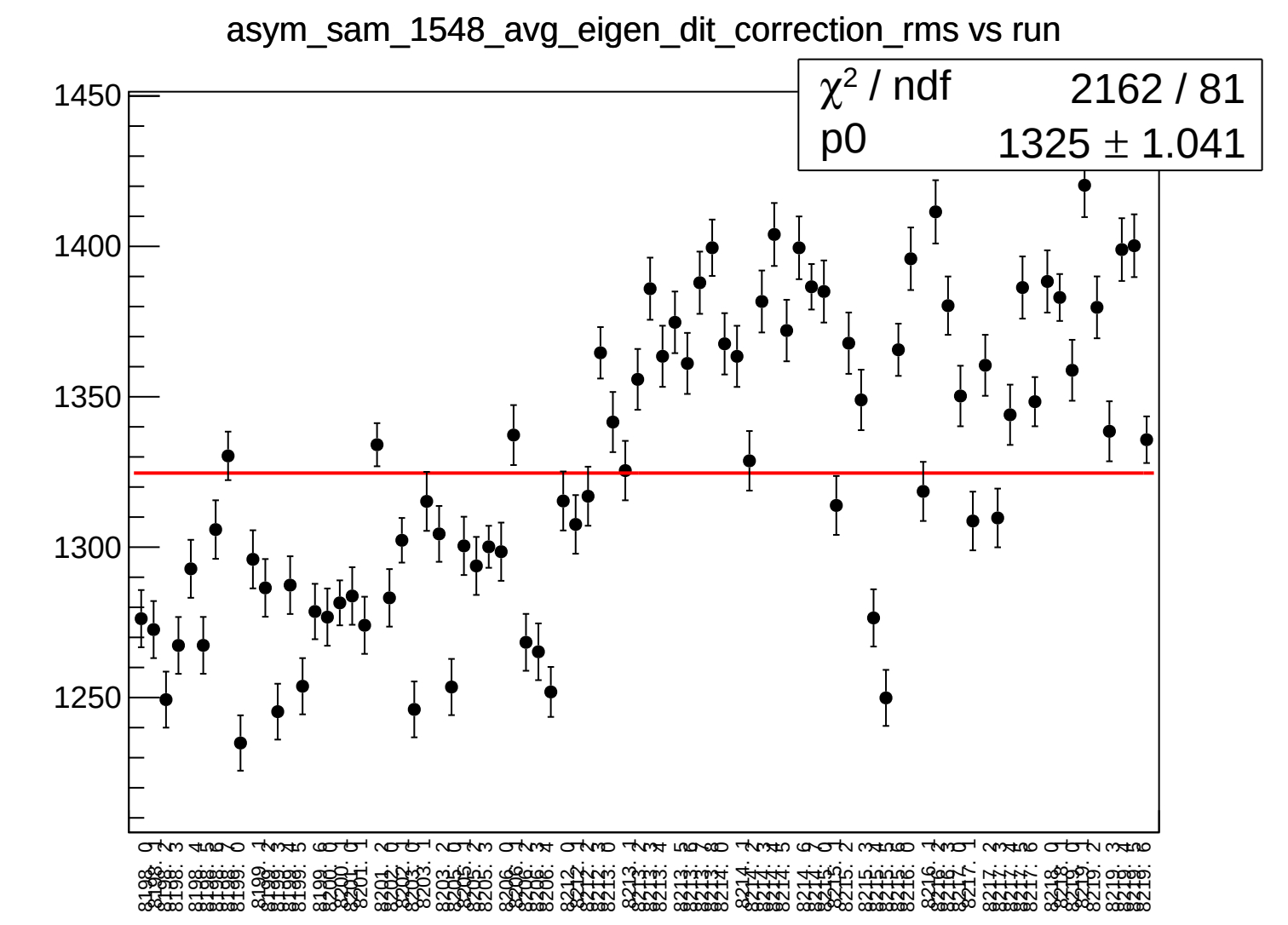

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 86.37 / 81
p0 −2083 ± 1472
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −616.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.008168
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

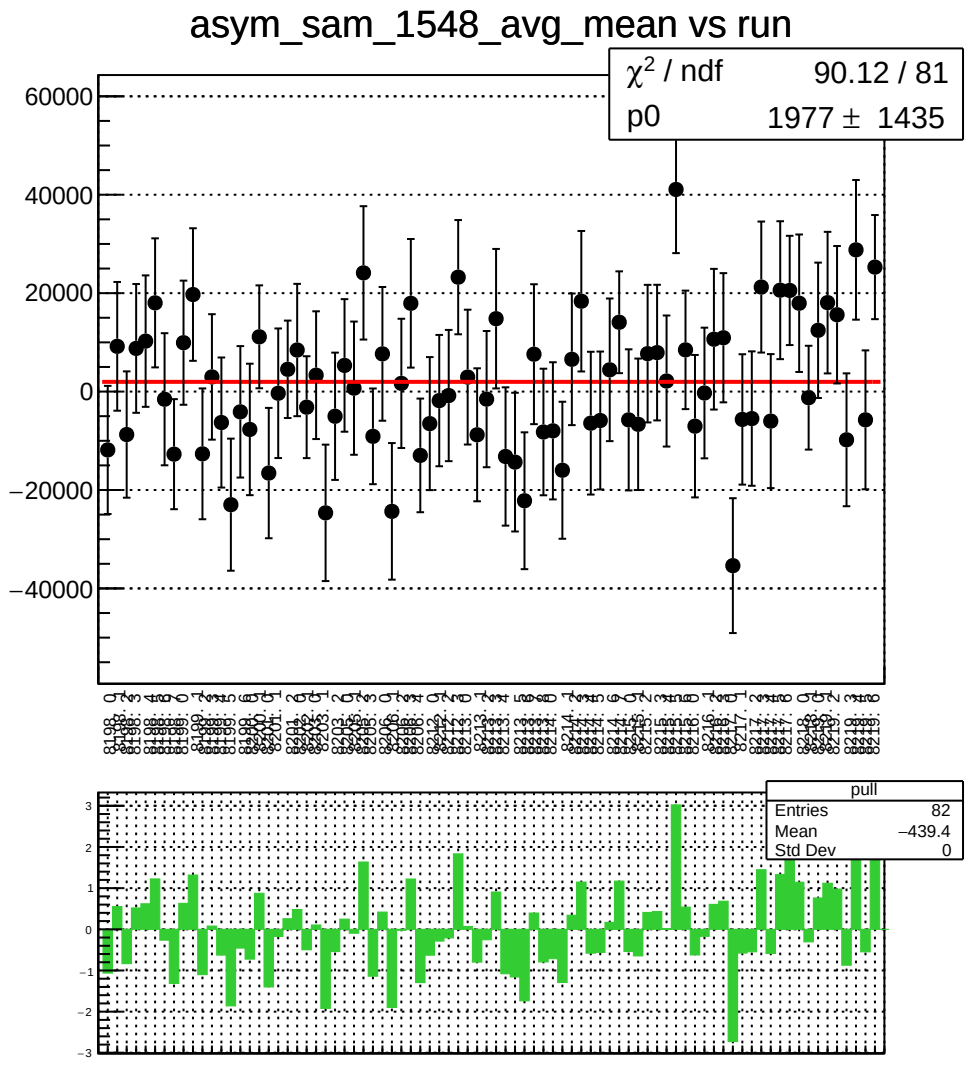

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 2162 / 81
p0 1325 ± 1.041
1450
1400
1350
1300
1250

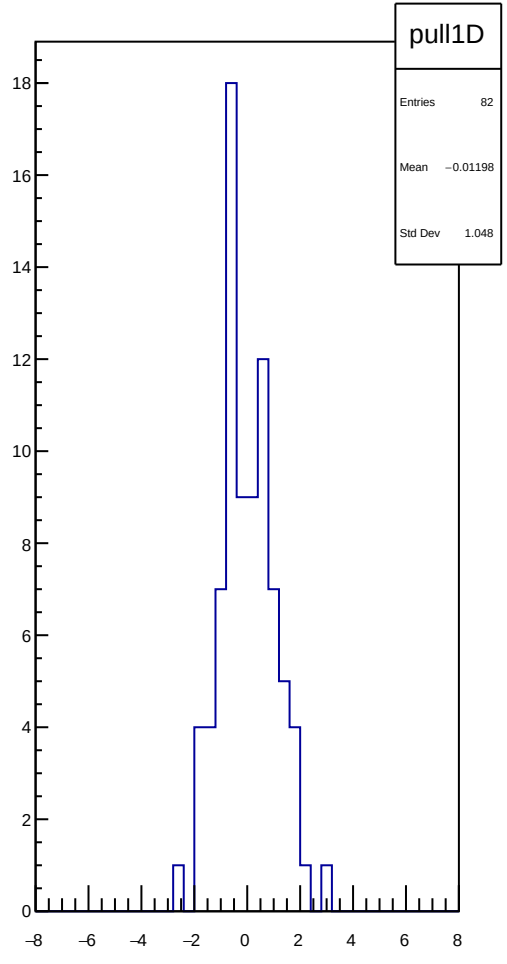

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 79.73 / 81
p0 −181.1± 149.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −315.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.005932
Std Dev 0.9861
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

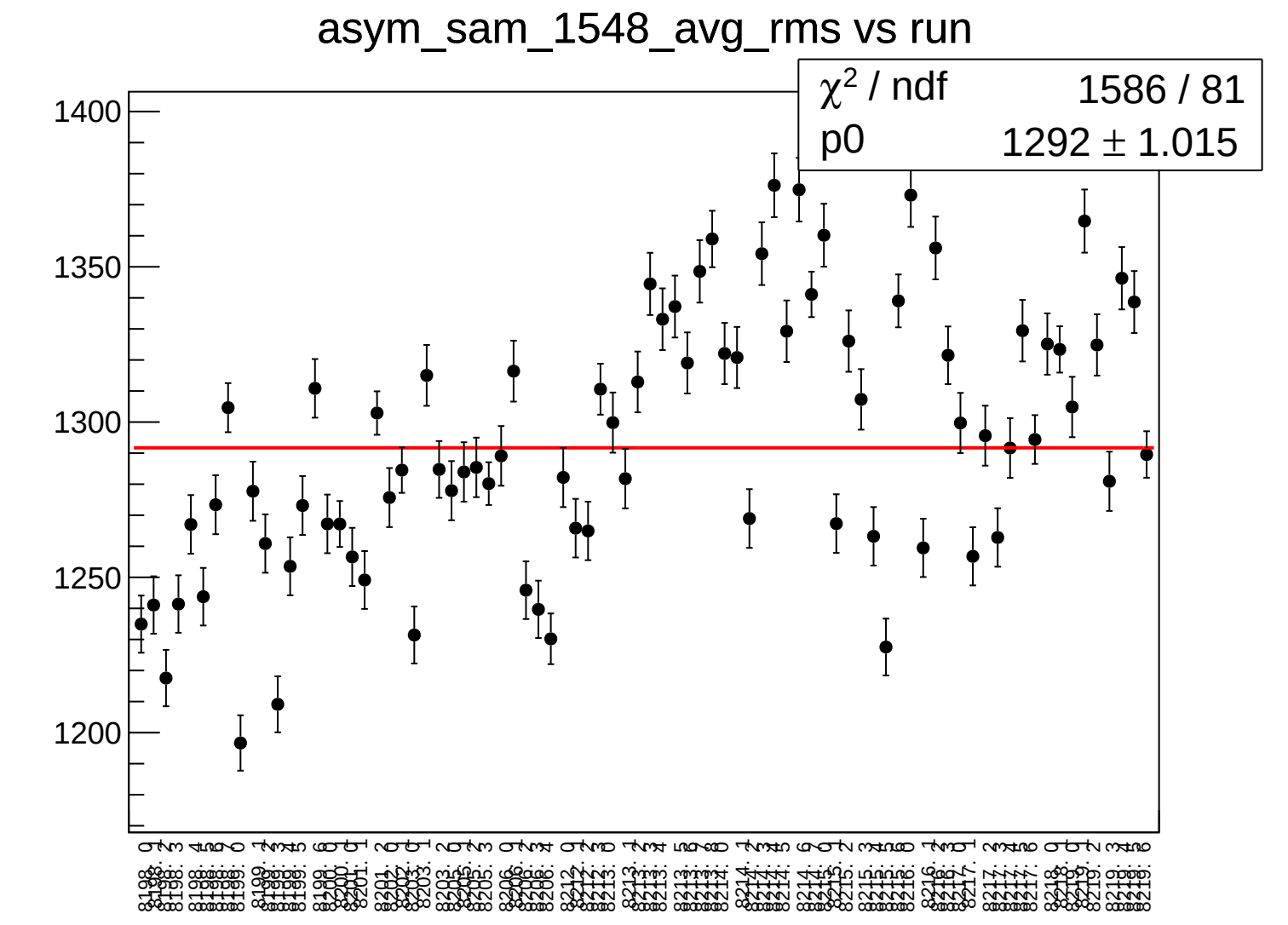

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 6098 / 81
p0 134.2 ± 0.1056
170
160
150
140
130
120

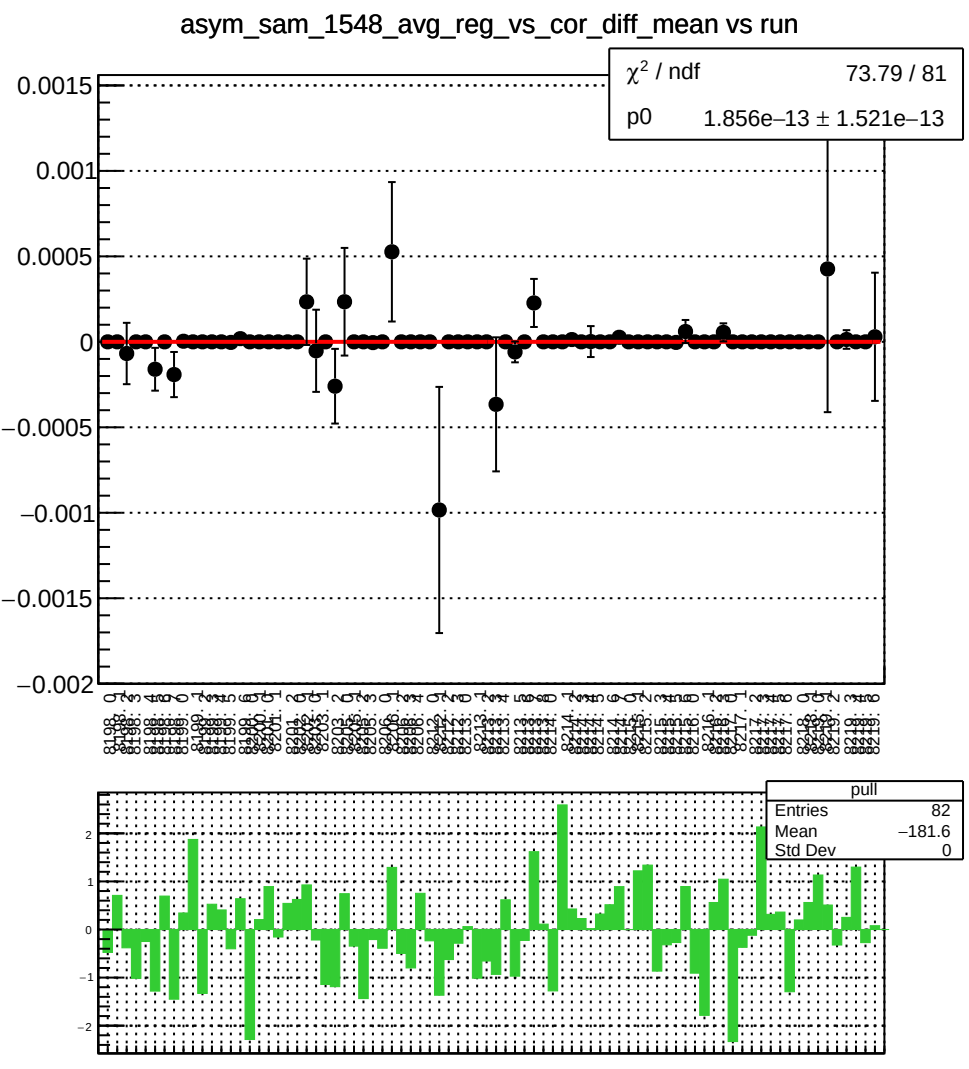

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.37 / 81
p0 −2083 ± 1472
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −616.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.008168
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

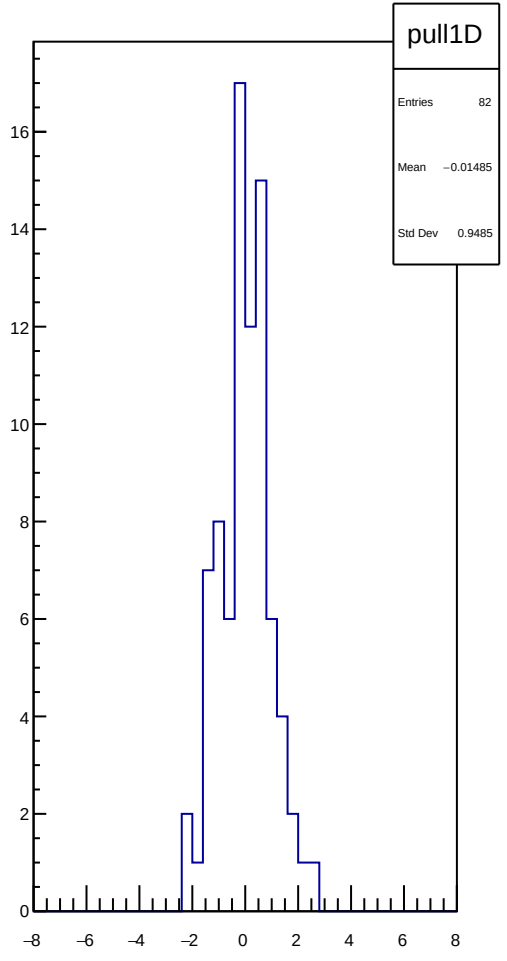

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 2162 / 81
p0 1325 ± 1.041
1450
1400
1350
1300
1250

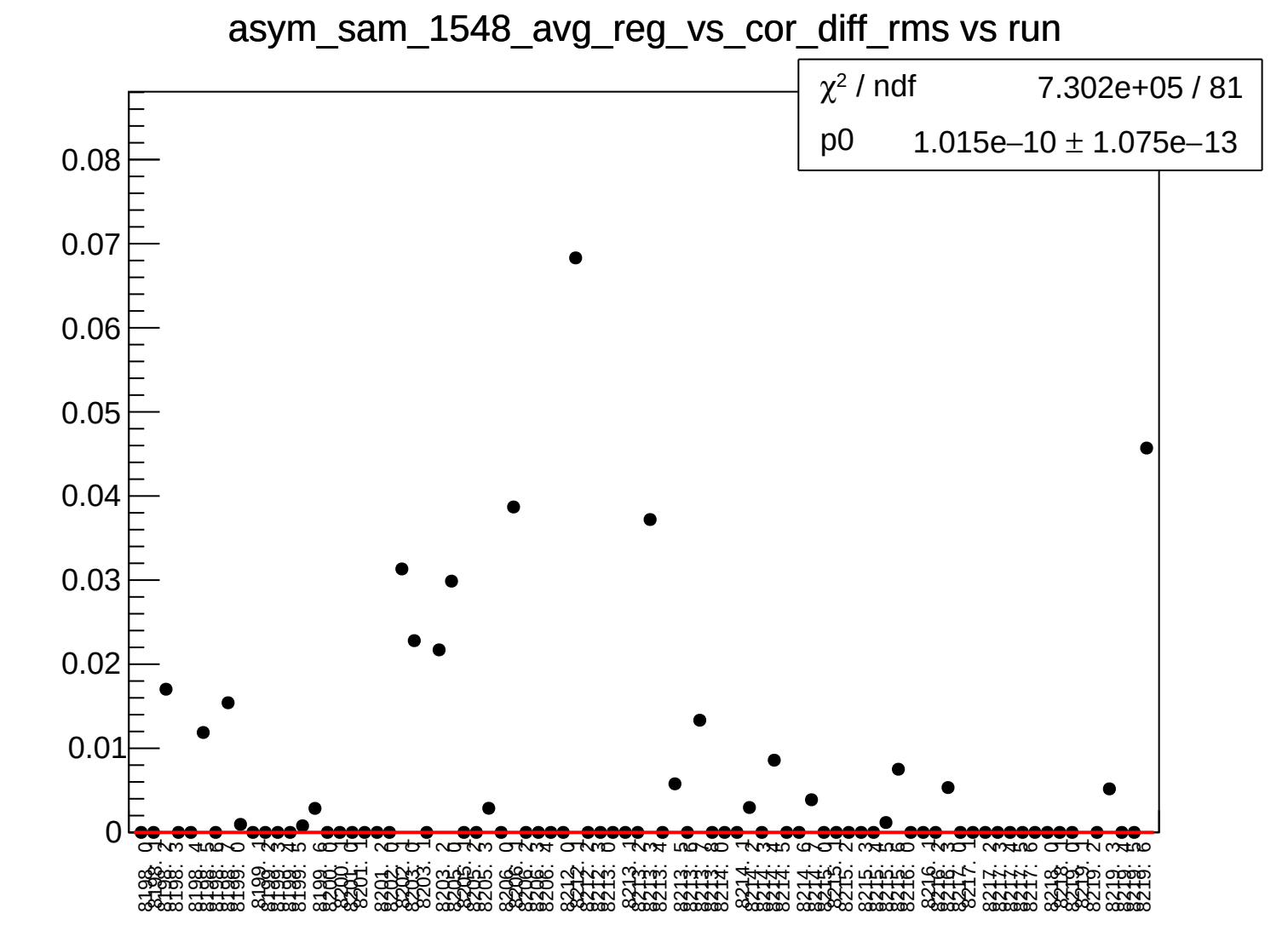

asym_sam_1548_avg_mean vs run
χ² / ndf 90.12 / 81
p0 1977 ± 1435
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −439.4
Std Dev 0
3
2
1
0
−1
−2
−3

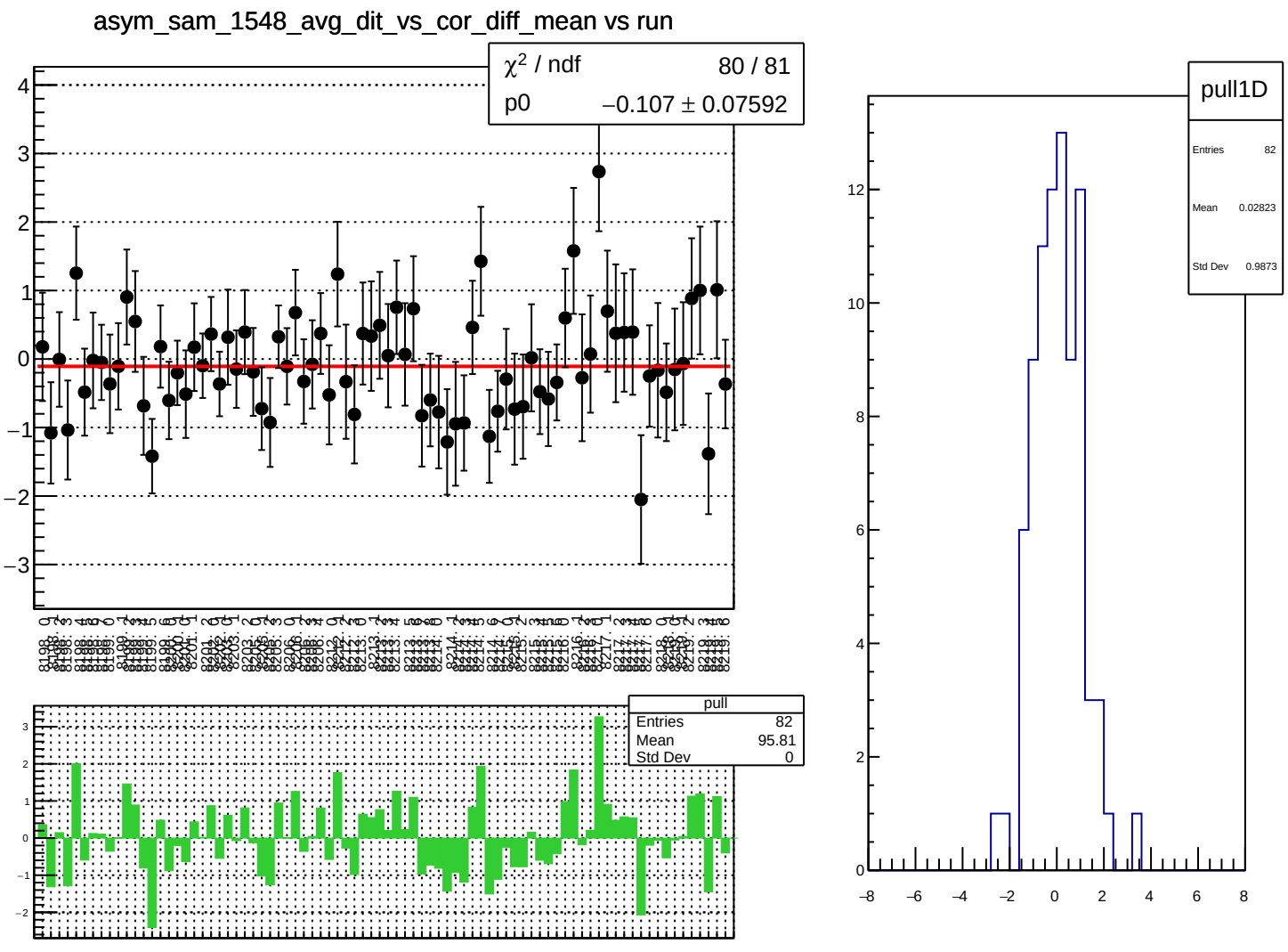

pull1D
Entries 82
Mean −0.01198
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

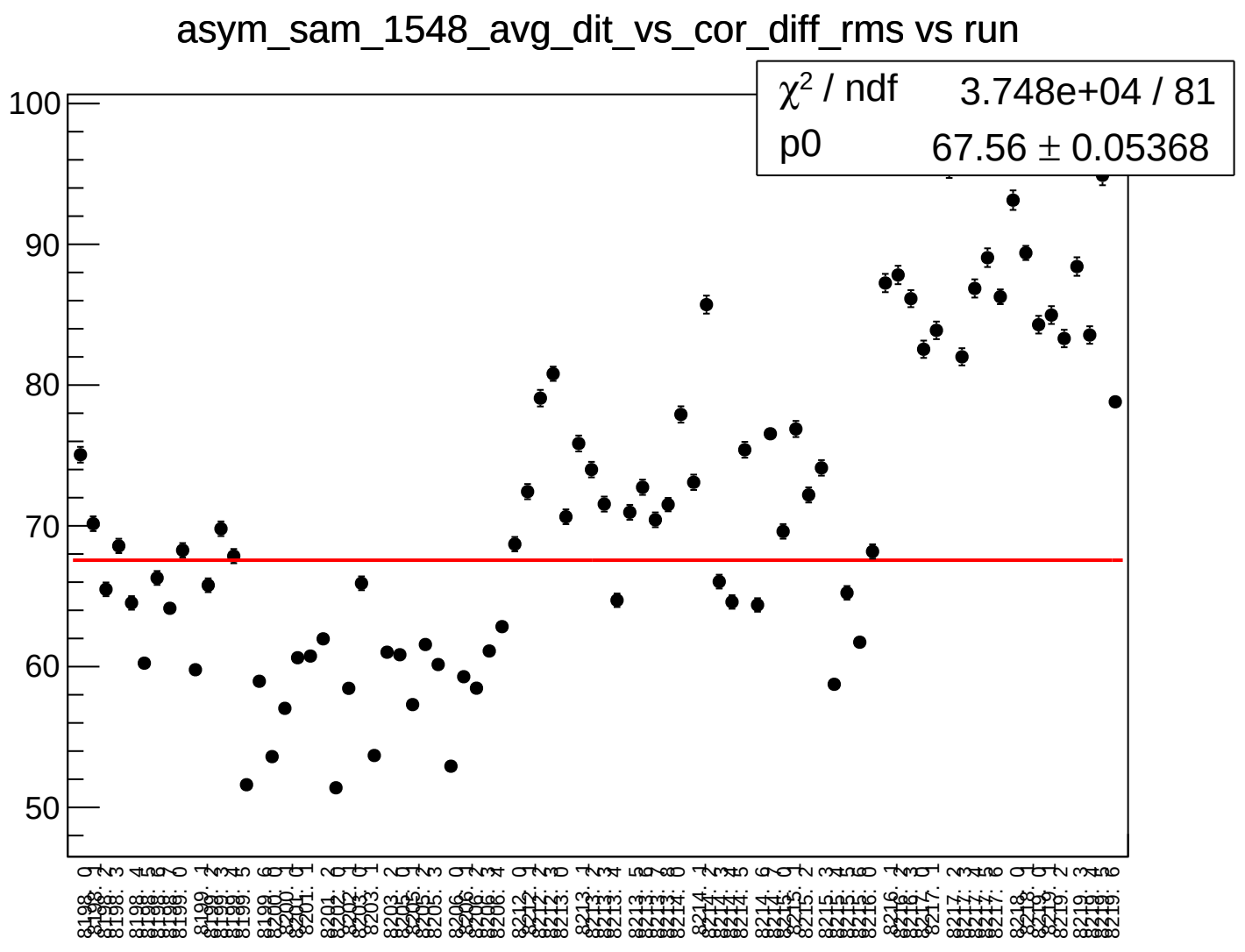

asym_sam_1548_avg_rms vs run
χ² / ndf 1586 / 81
p0 1292 ± 1.015
1400
1350
1300
1250
1200

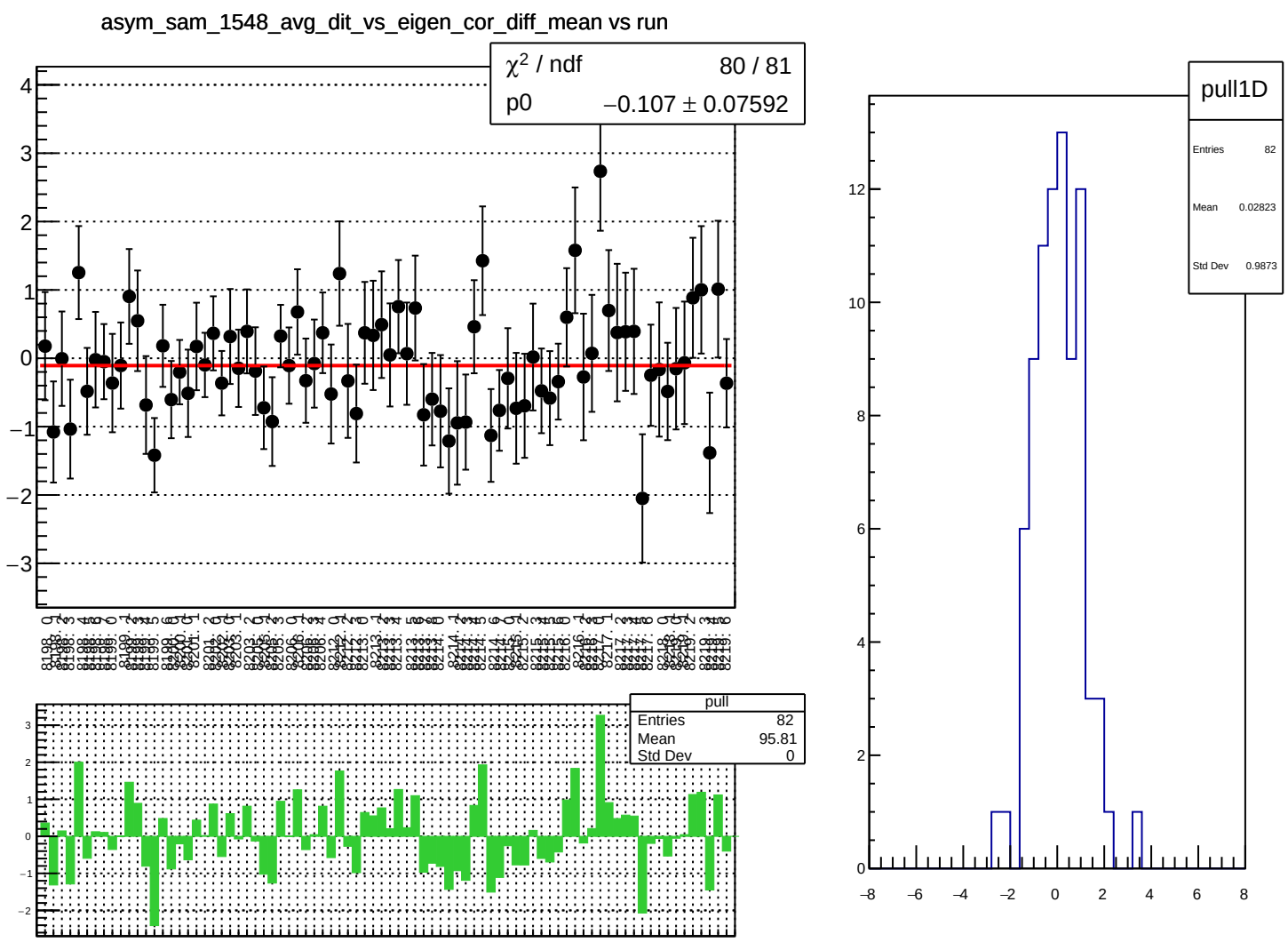

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.79 / 81
p0 1.856e−13 ± 1.521e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 82
Mean −181.6
Std Dev 0
2
1
0
−1
−2

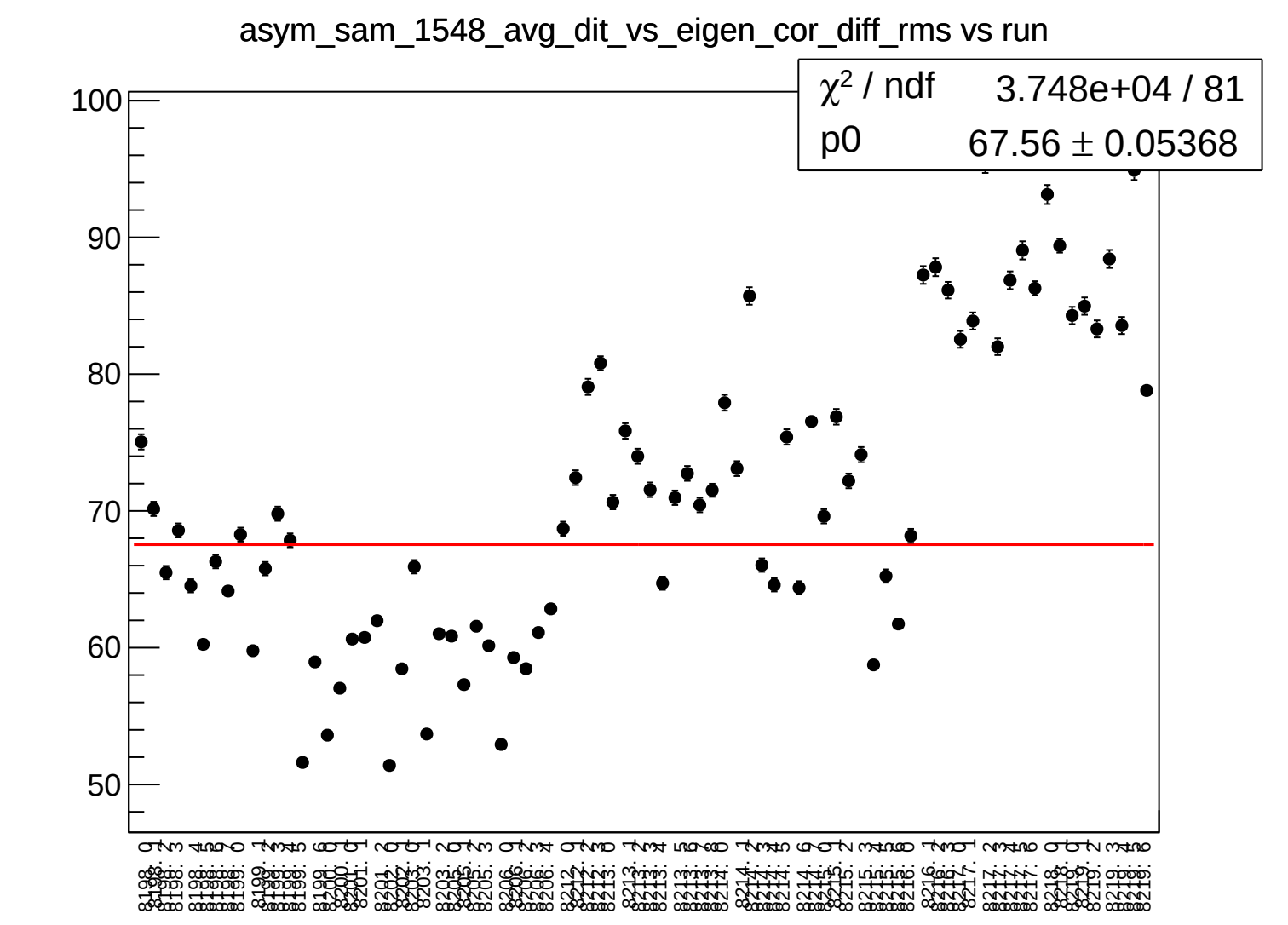

pull1D
Entries 82
Mean −0.01485
Std Dev 0.9485
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

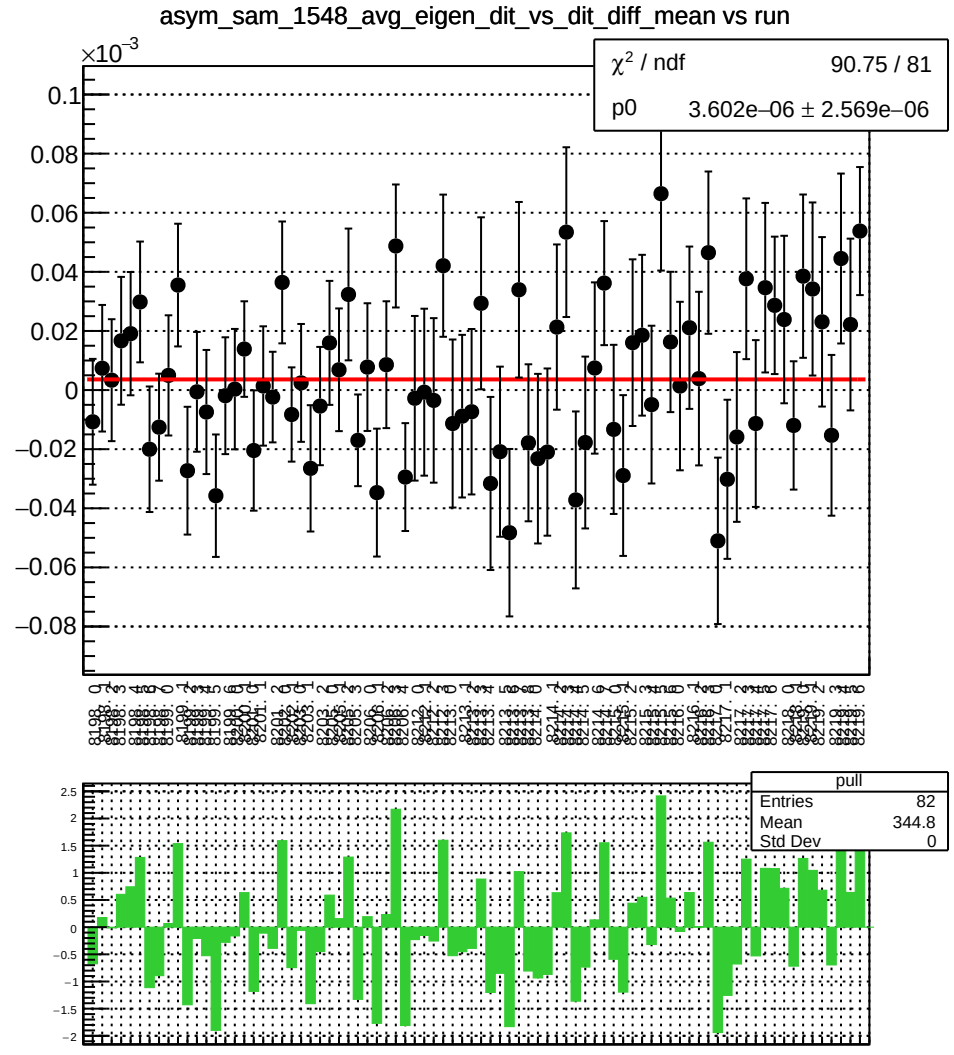

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.302e+05 / 81
p0 1.015e−10 ± 1.075e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

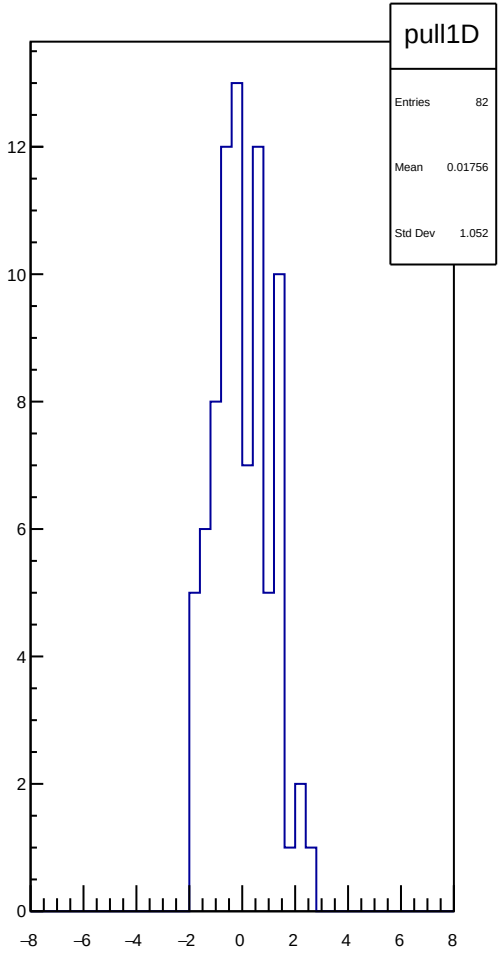

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80 / 81
p0 −0.107 ± 0.07592
pull
Entries 82
Mean 95.81
Std Dev 0
pull1D
Entries 82
Mean 0.02823
Std Dev 0.9873

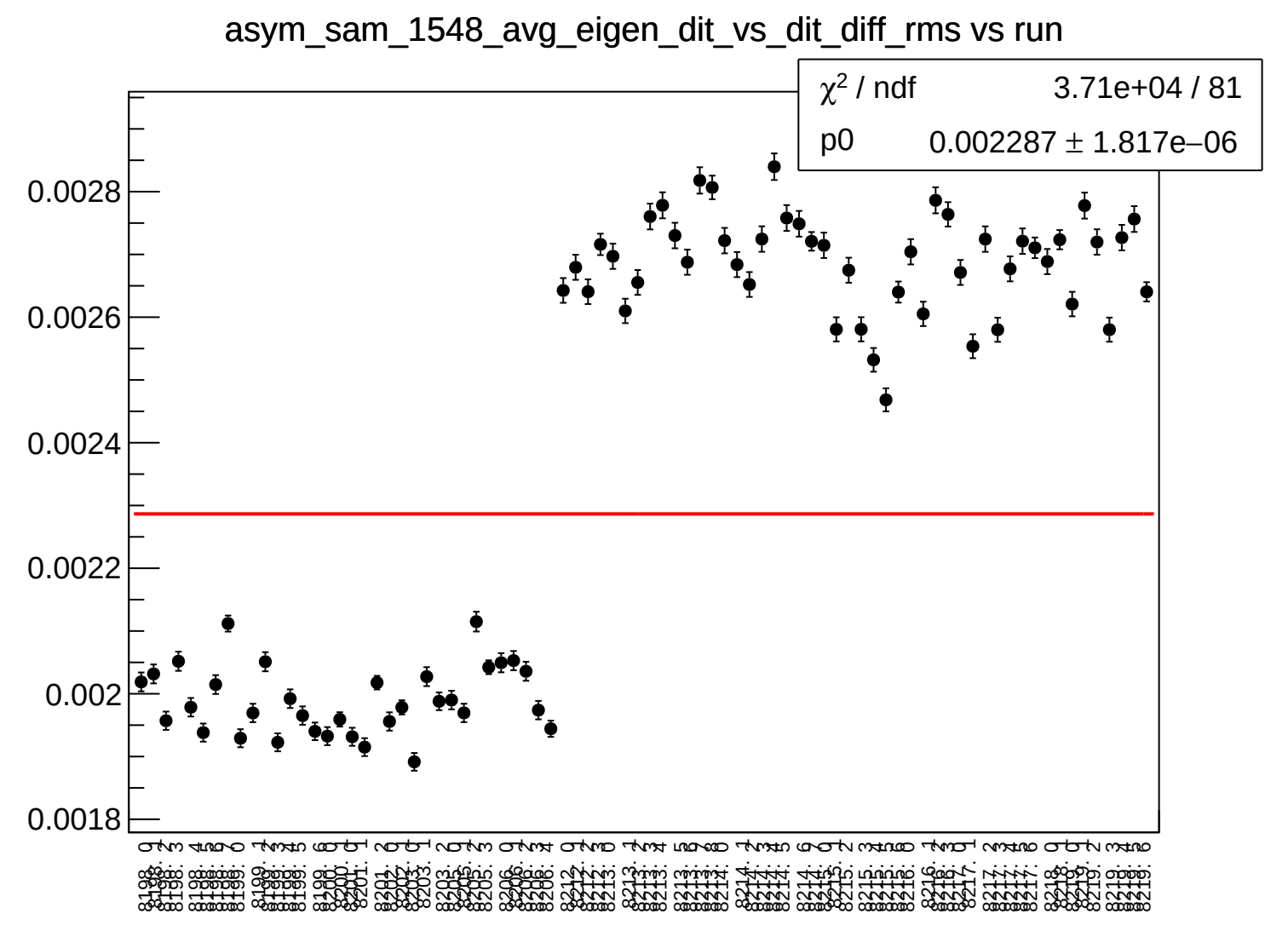

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.748e+04 / 81
p0 67.56 ± 0.05368
100
90
80
70
60
50


asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80 / 81
p0 −0.107 ± 0.07592
pull
Entries 82
Mean 95.81
Std Dev 0
pull1D
Entries 82
Mean 0.02823
Std Dev 0.9873

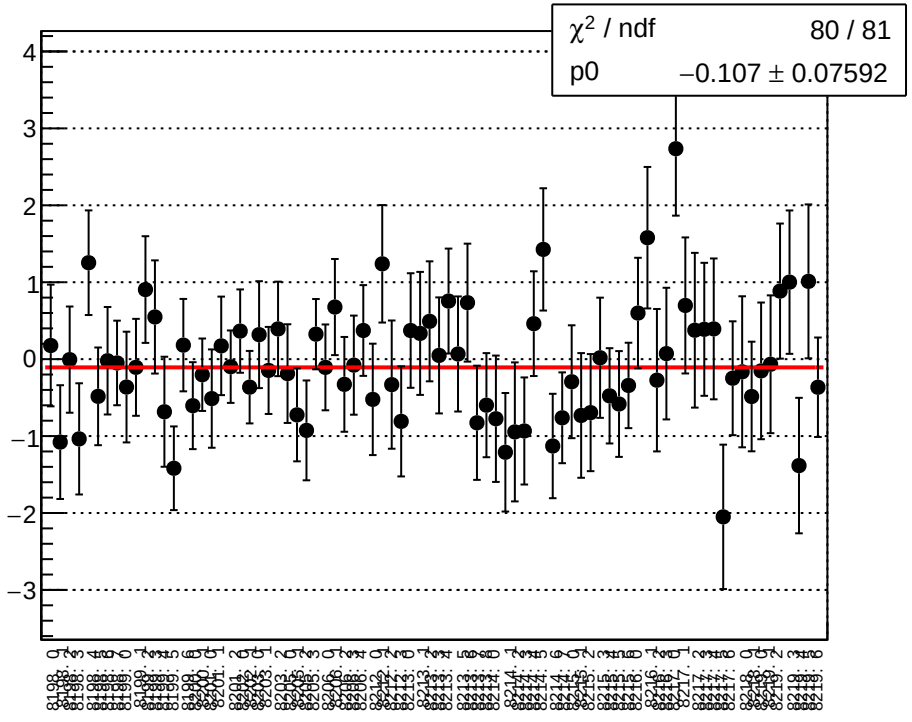

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.748e+04 / 81
p0 67.56 ± 0.05368
100
90
80
70
60
50

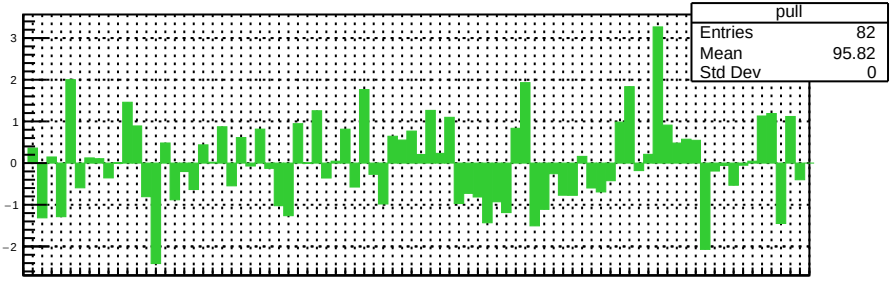

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 90.75 / 81
p0 3.602e−06 ± 2.569e−06
pull
Entries 82
Mean 344.8
Std Dev 0

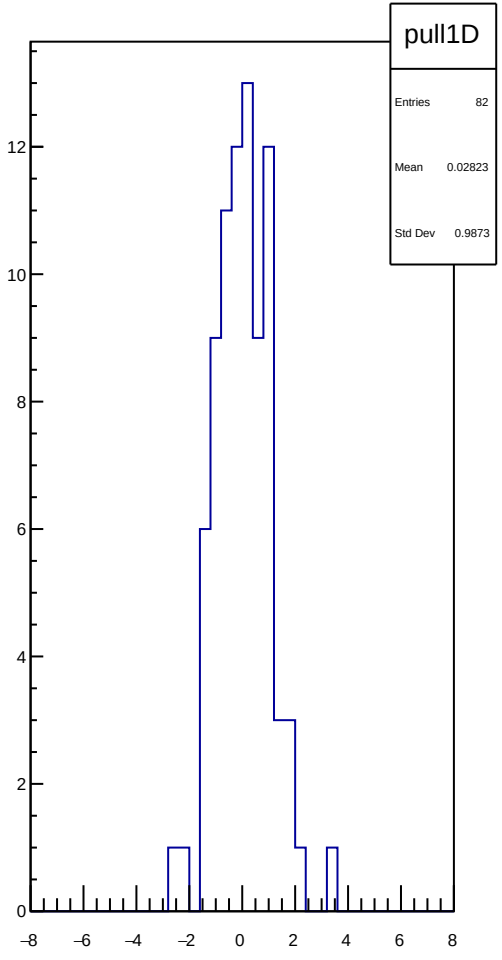

pull1D
Entries 82
Mean 0.01756
Std Dev 1.052

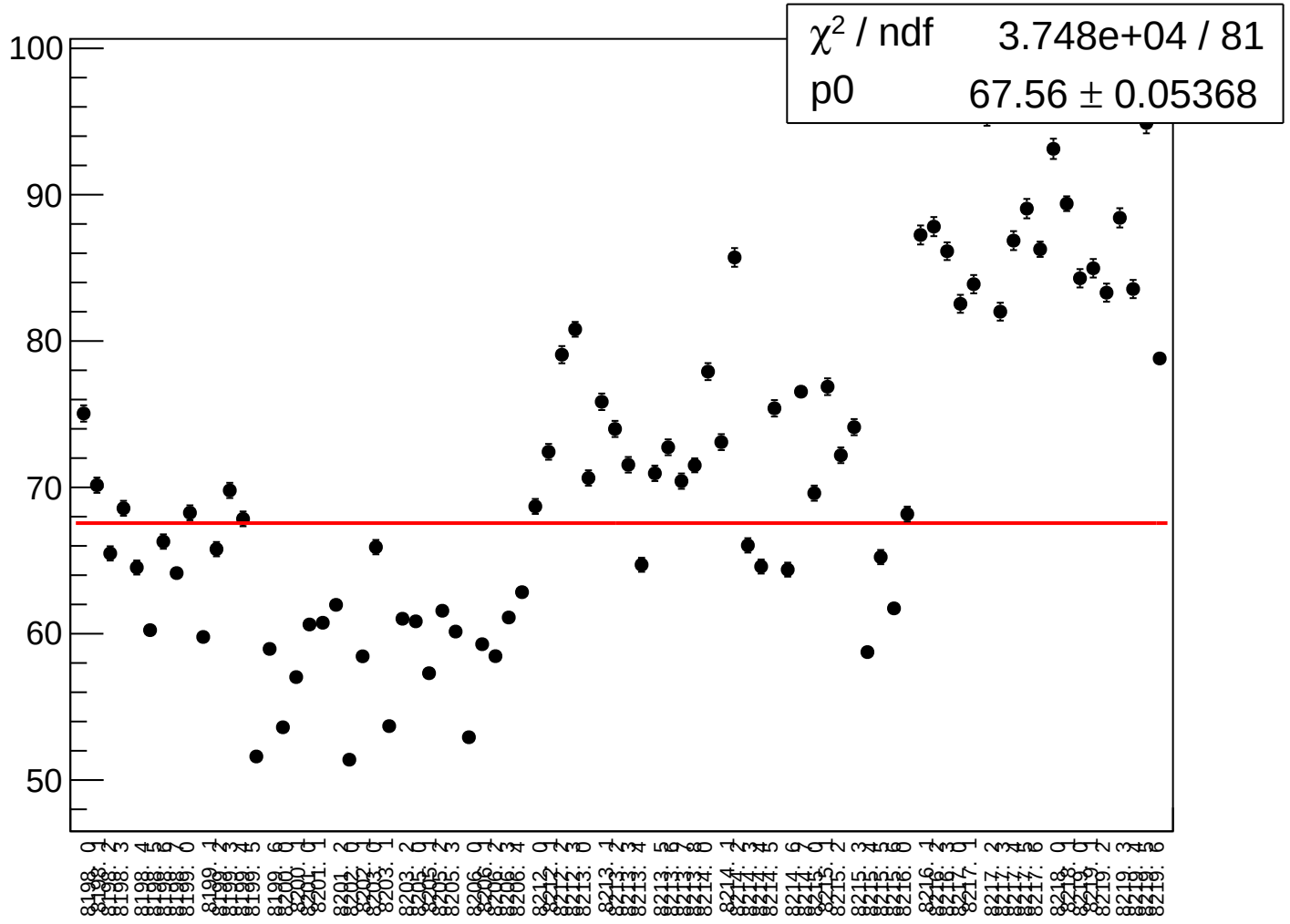

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.71e+04 / 81
p0 0.002287 ± 1.817e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run

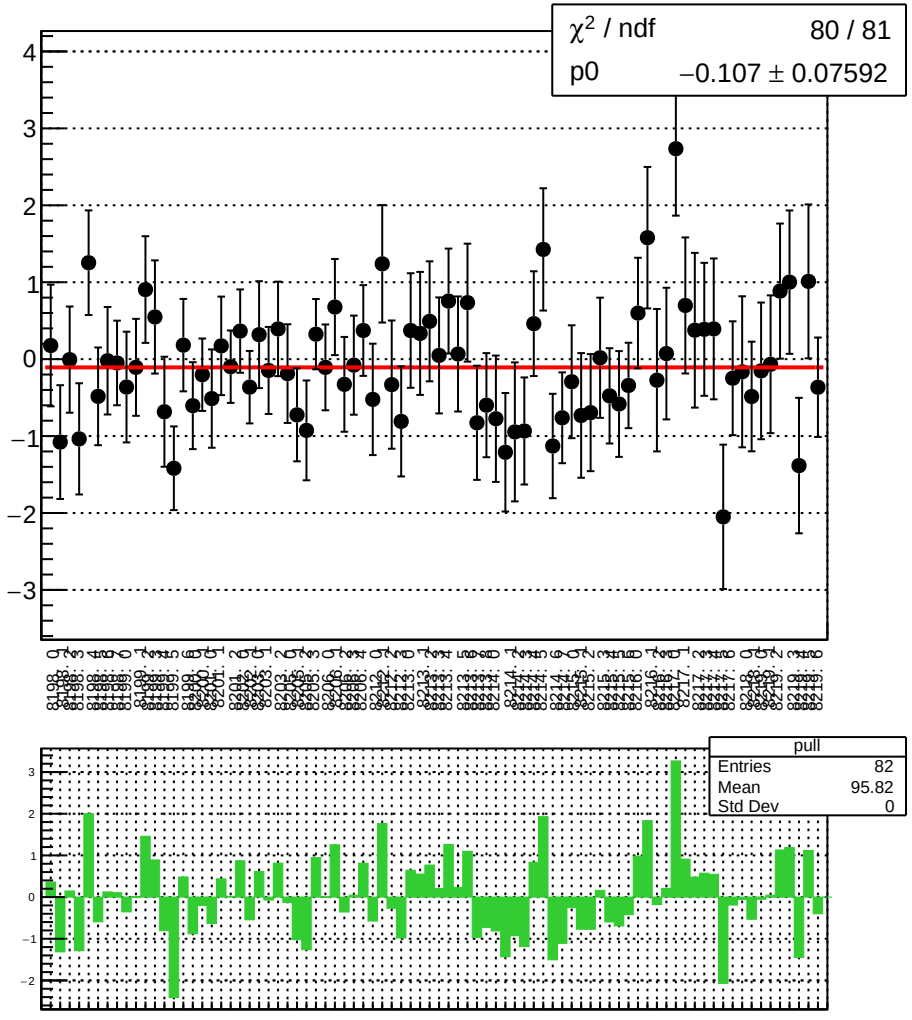


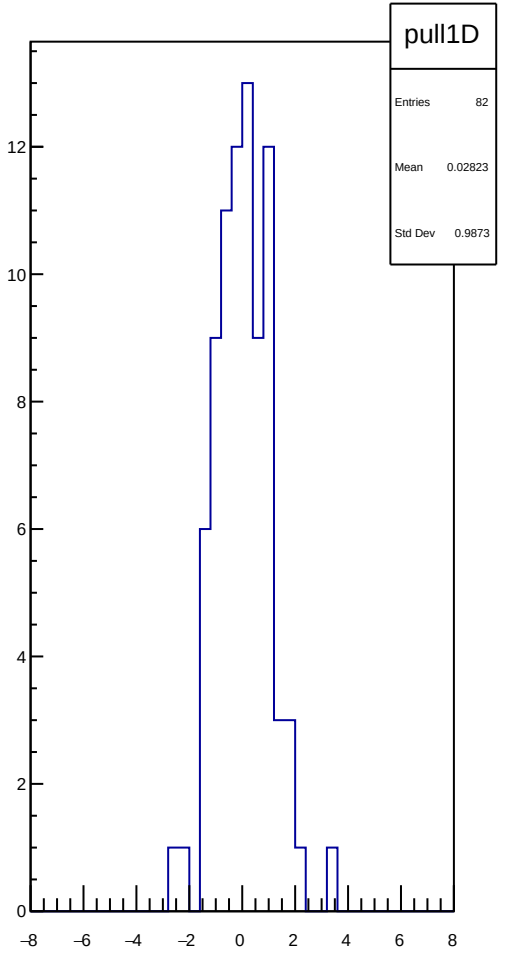



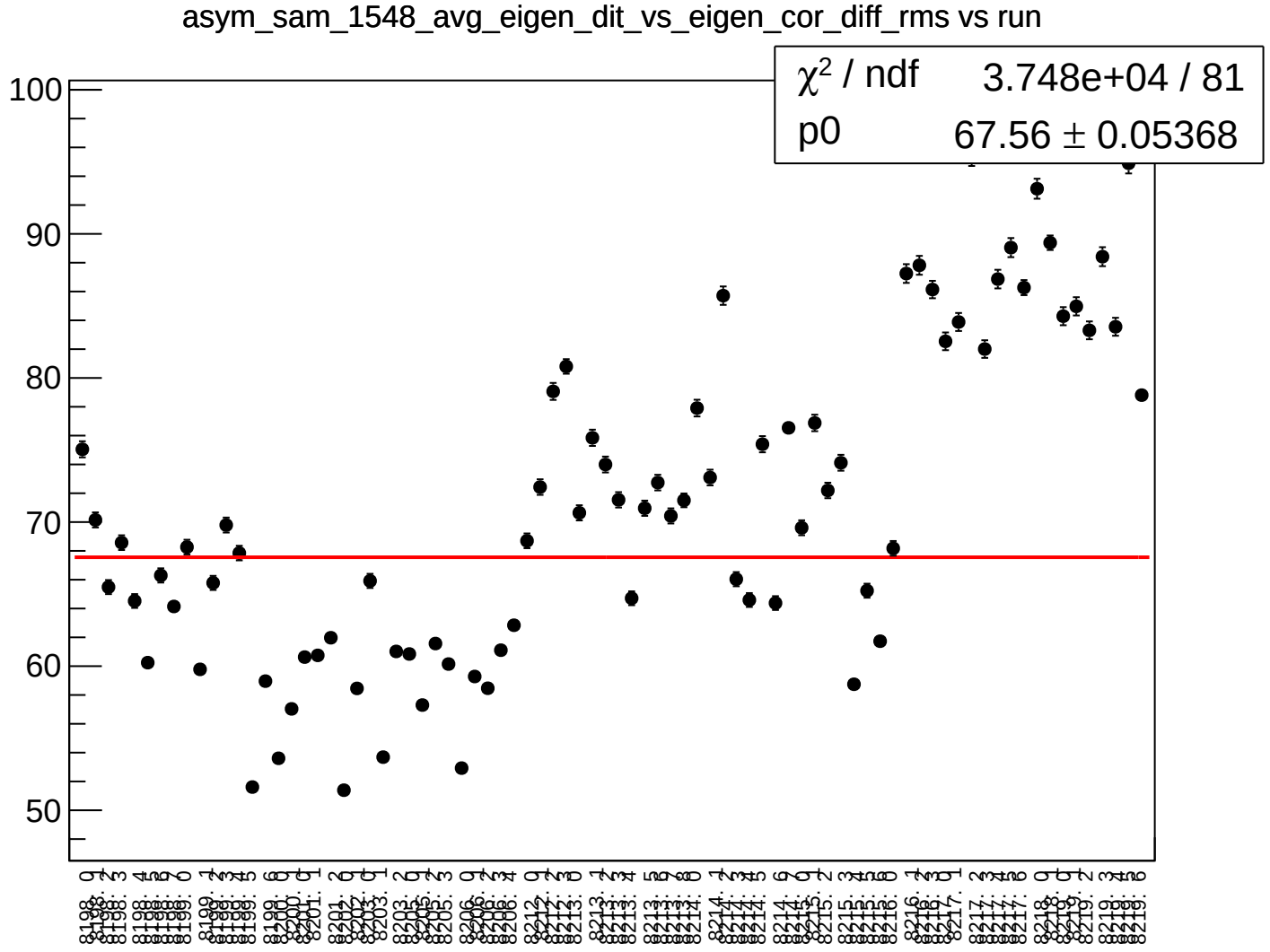



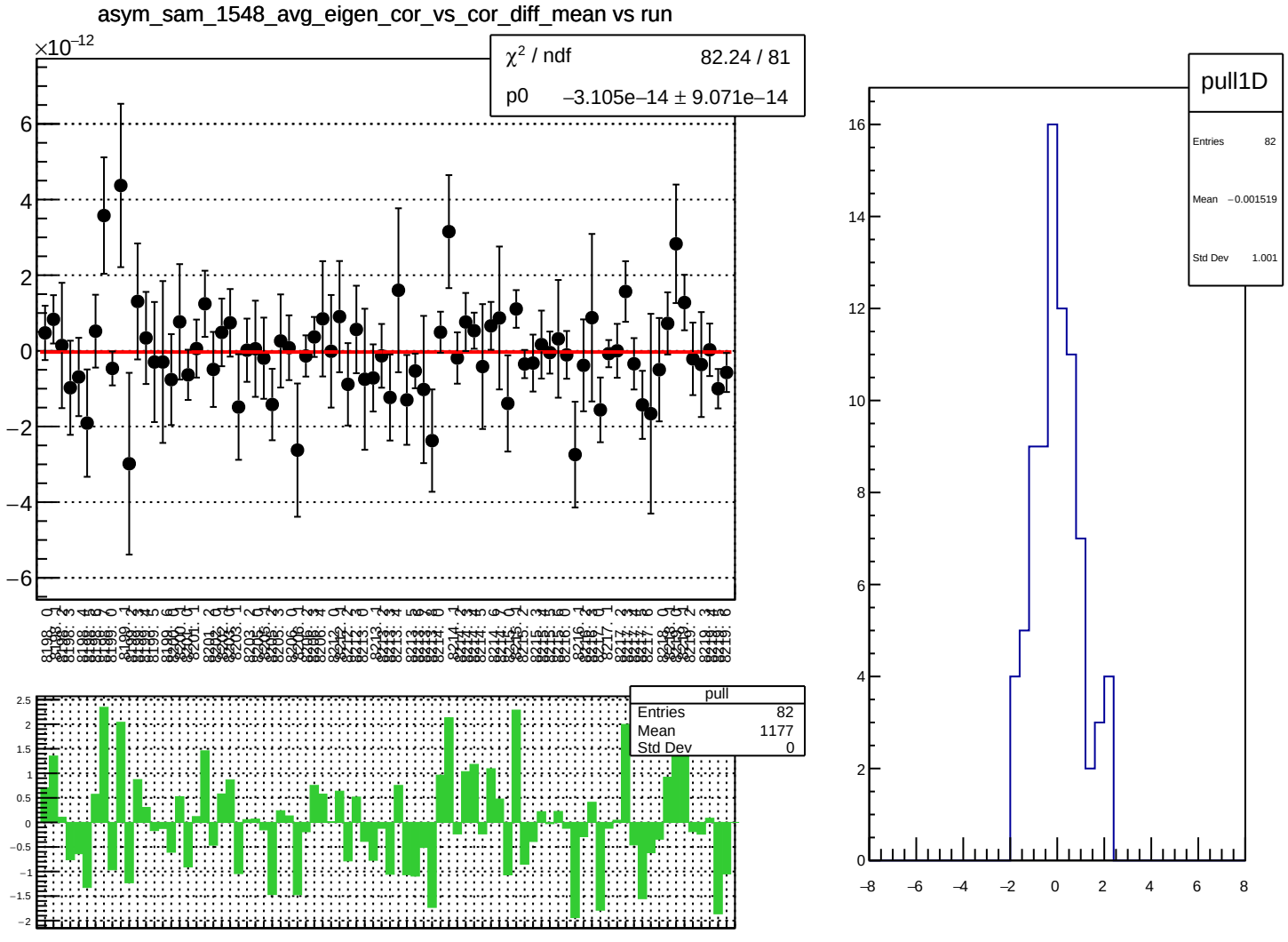

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.748e+04 / 81
p0 67.56 ± 0.05368
100
90
80
70
60
50

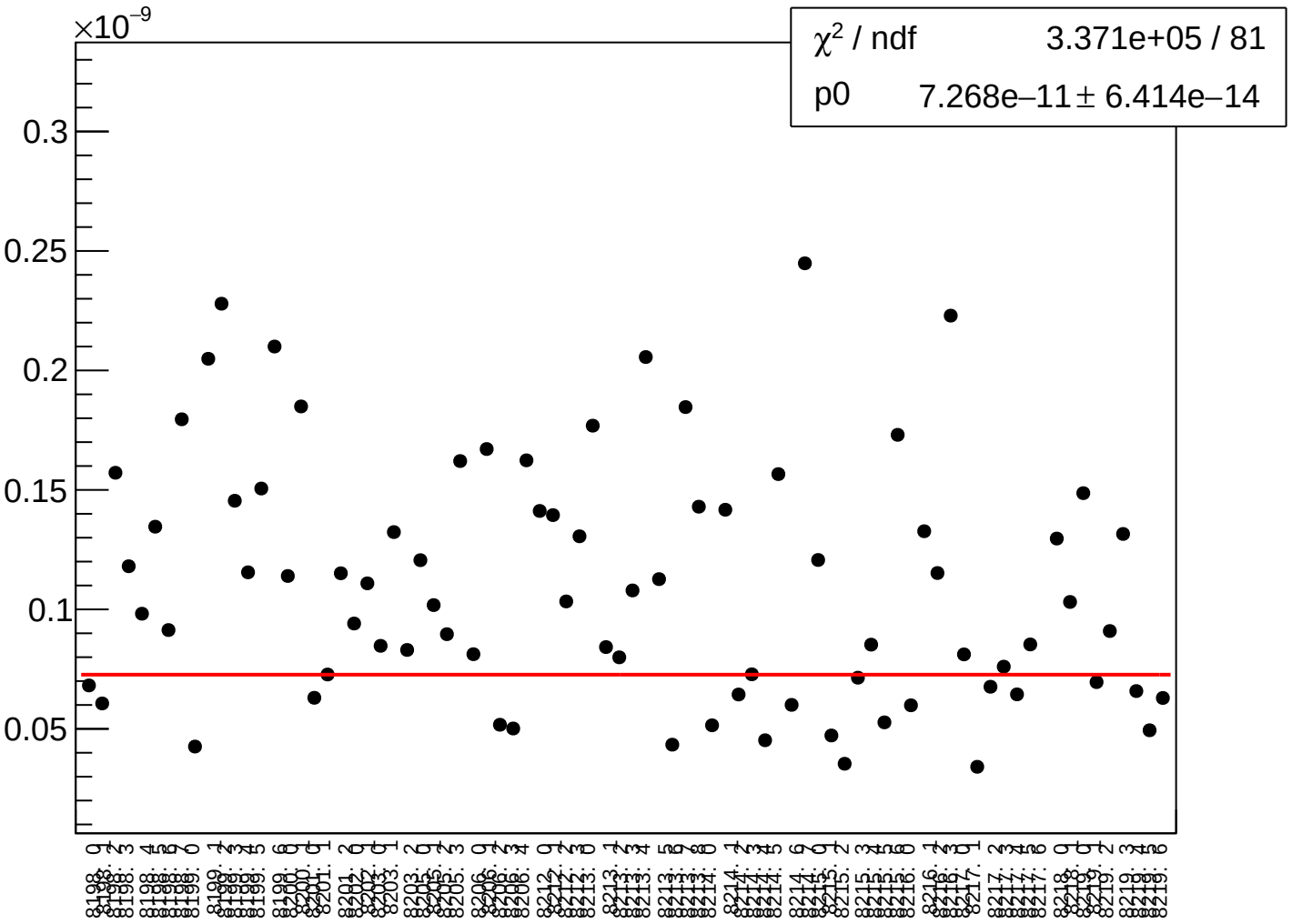
asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

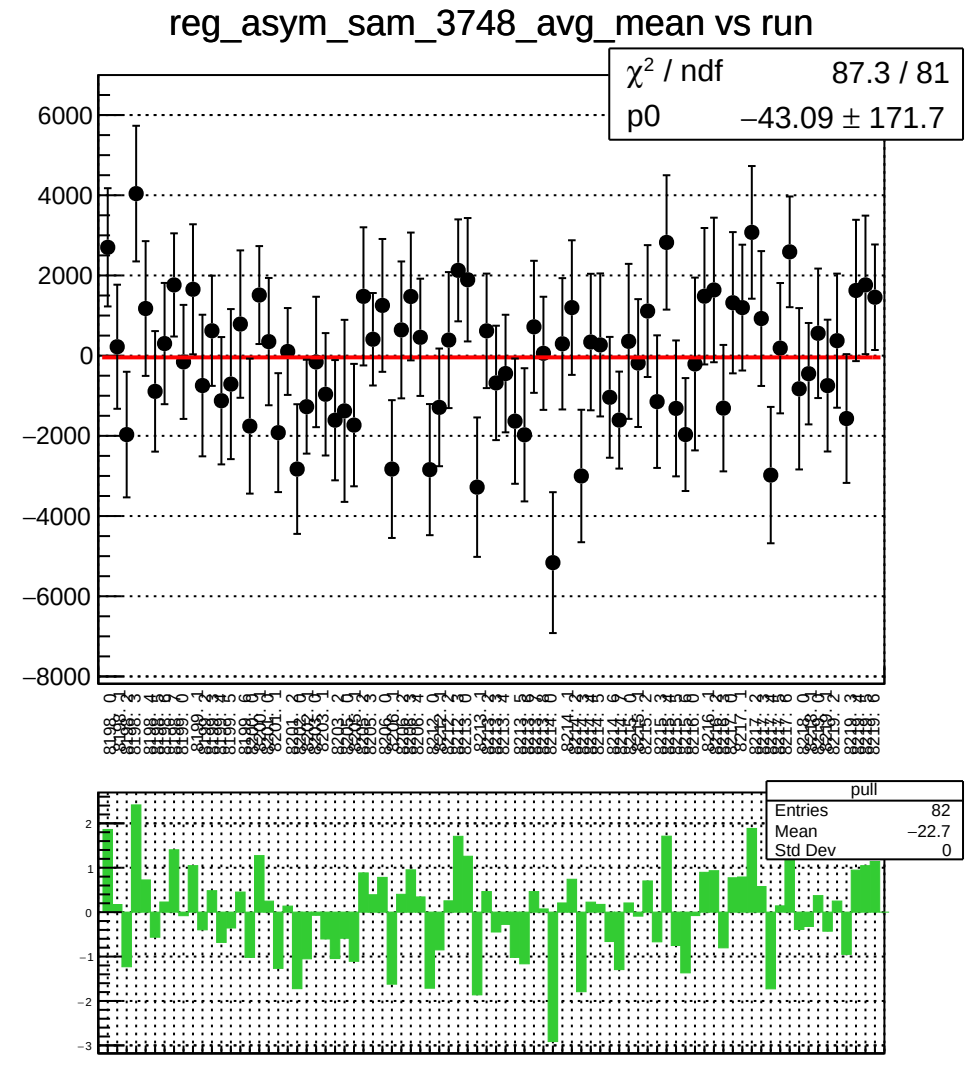


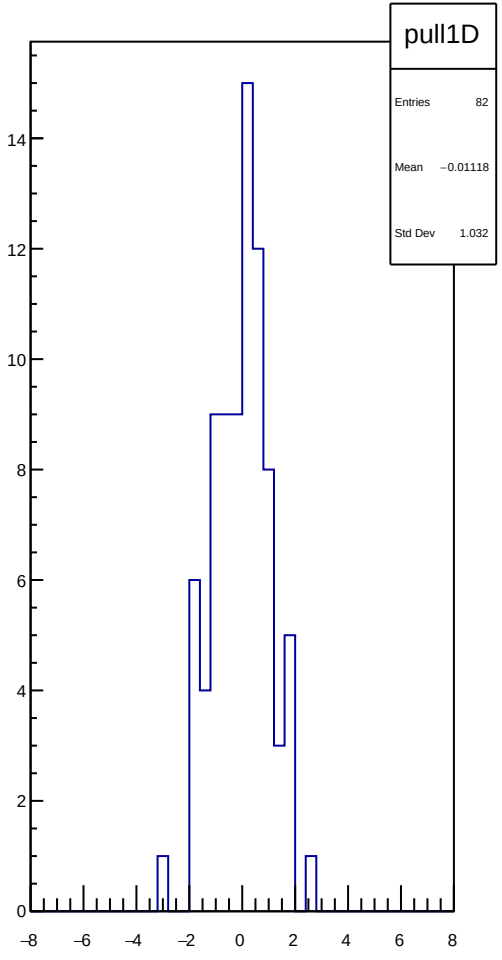



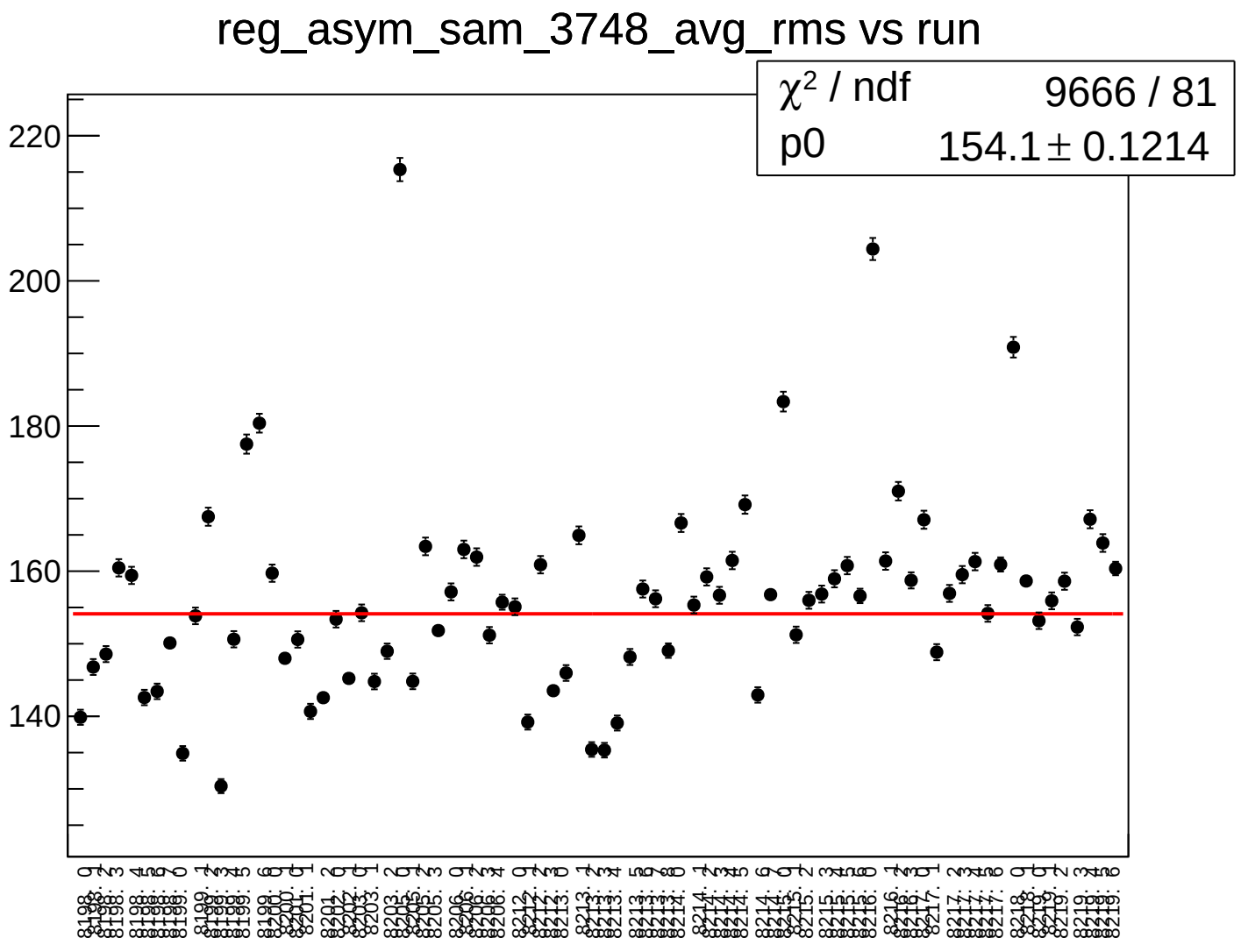

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.748e+04 / 81
p0 67.56 ± 0.05368
100
90
80
70
60
50

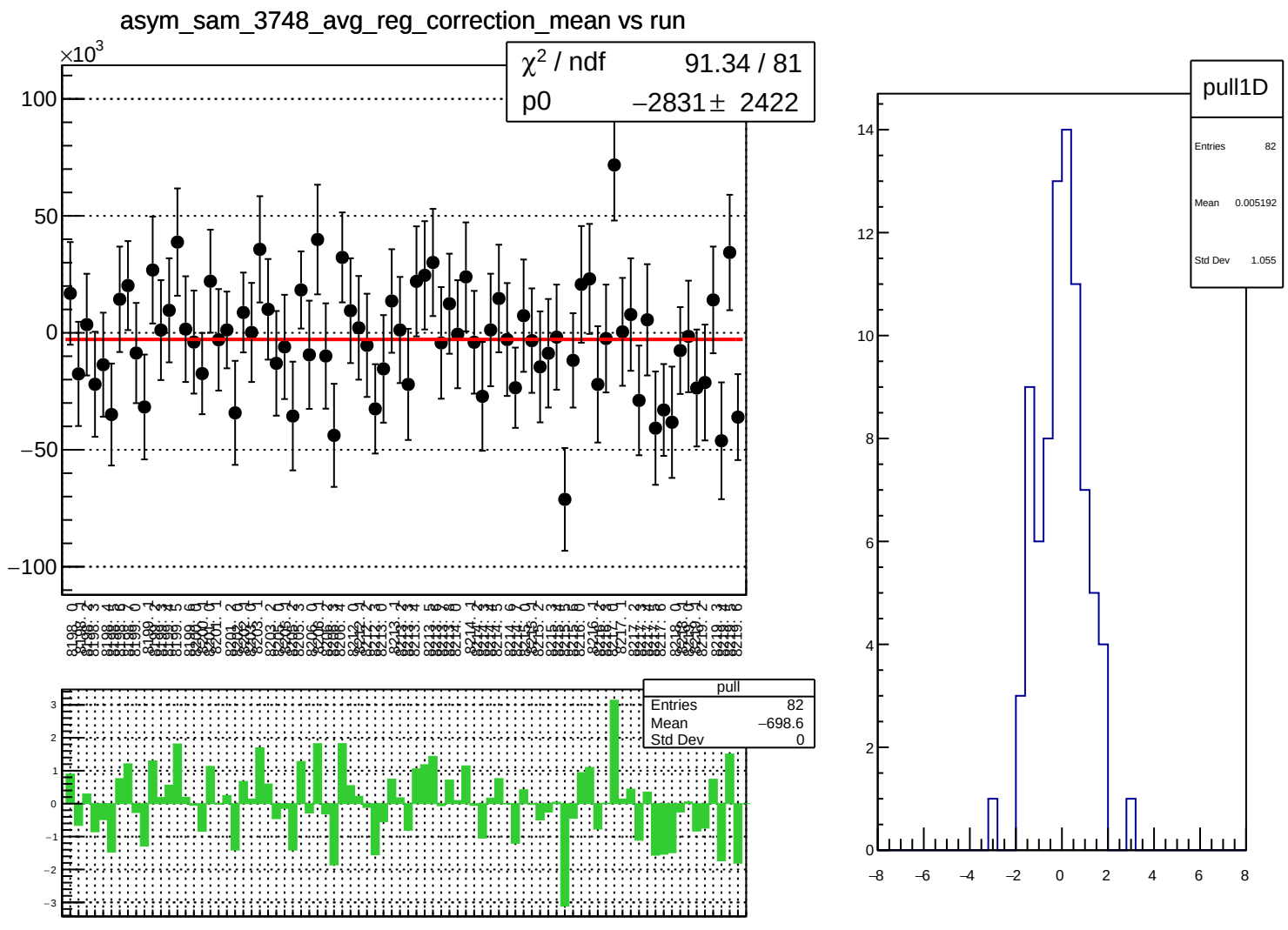

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.24 / 81
p0 −3.105e−14 ± 9.071e−14
pull
Entries 82
Mean 1177
Std Dev 0
pull1D
Entries 82
Mean −0.001519
Std Dev 1.001

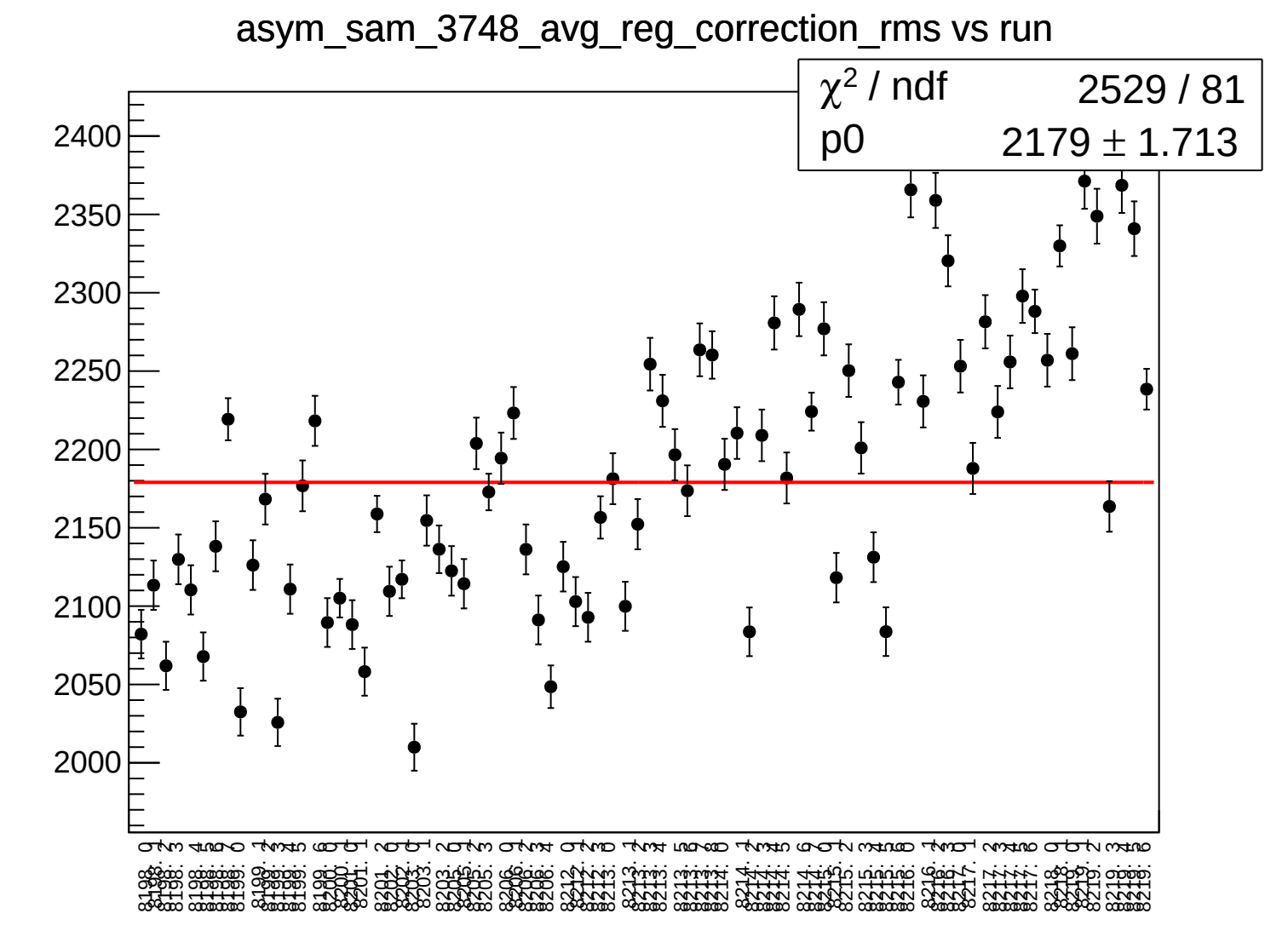

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.371e+05 / 81
p0 7.268e−11 ± 6.414e−14
0.3
0.25
0.2
0.15
0.1
0.05

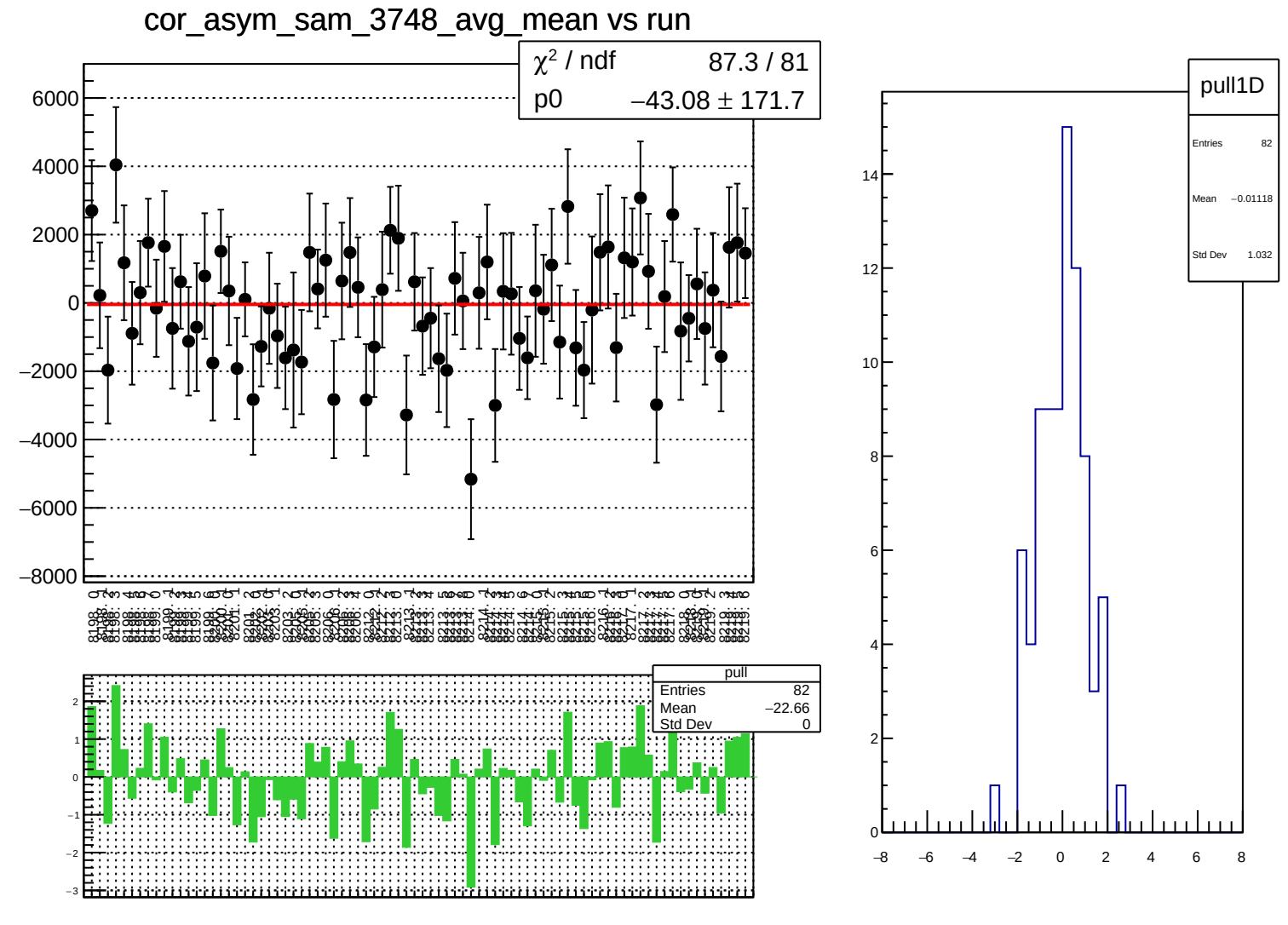

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 87.3 / 81
p0 −43.09 ± 171.7
pull
Entries 82
Mean −22.7
Std Dev 0

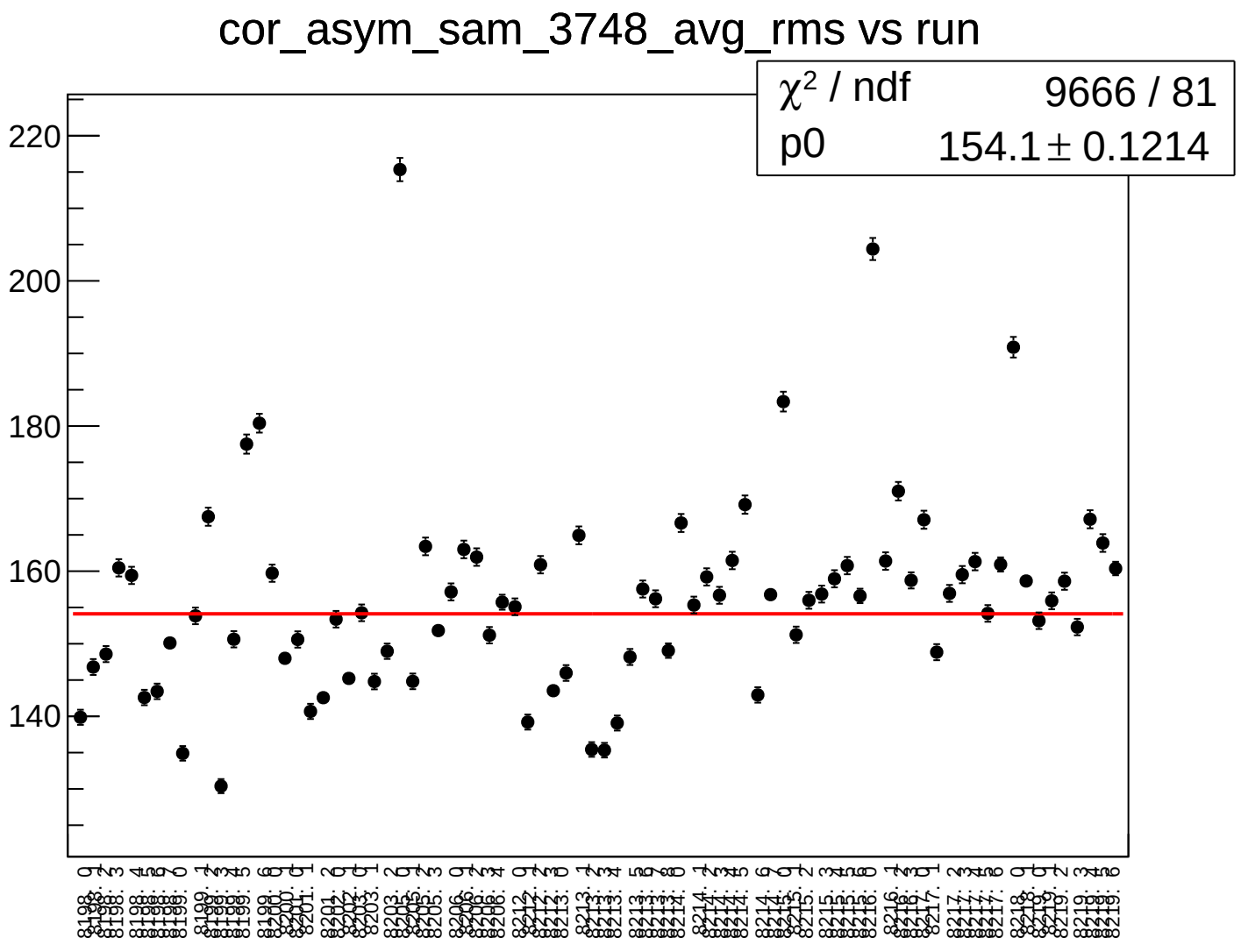

pull1D
Entries 82
Mean −0.01118
Std Dev 1.032

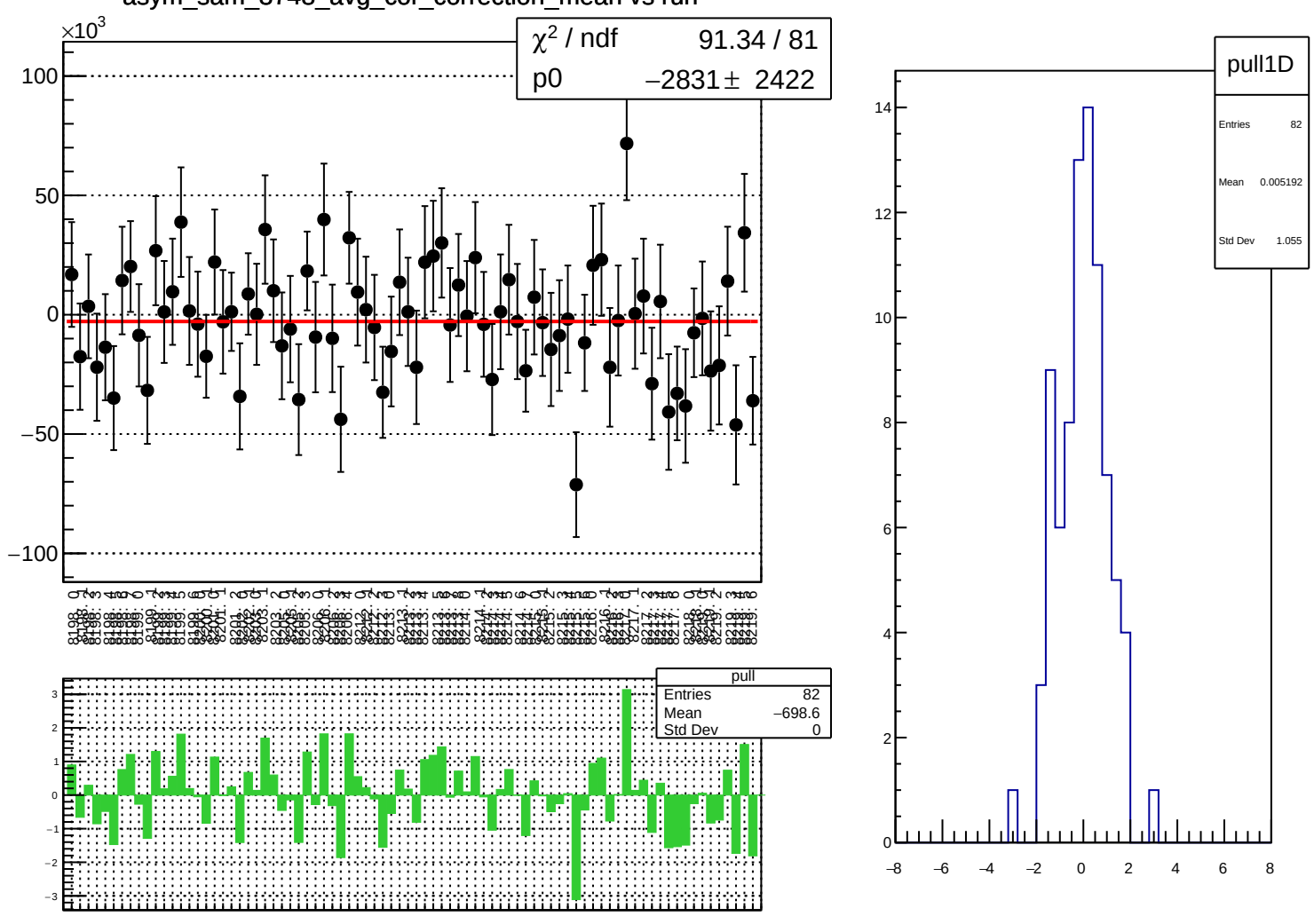

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 9666 / 81
p0 154.1 ± 0.1214
220
200
180
160
140

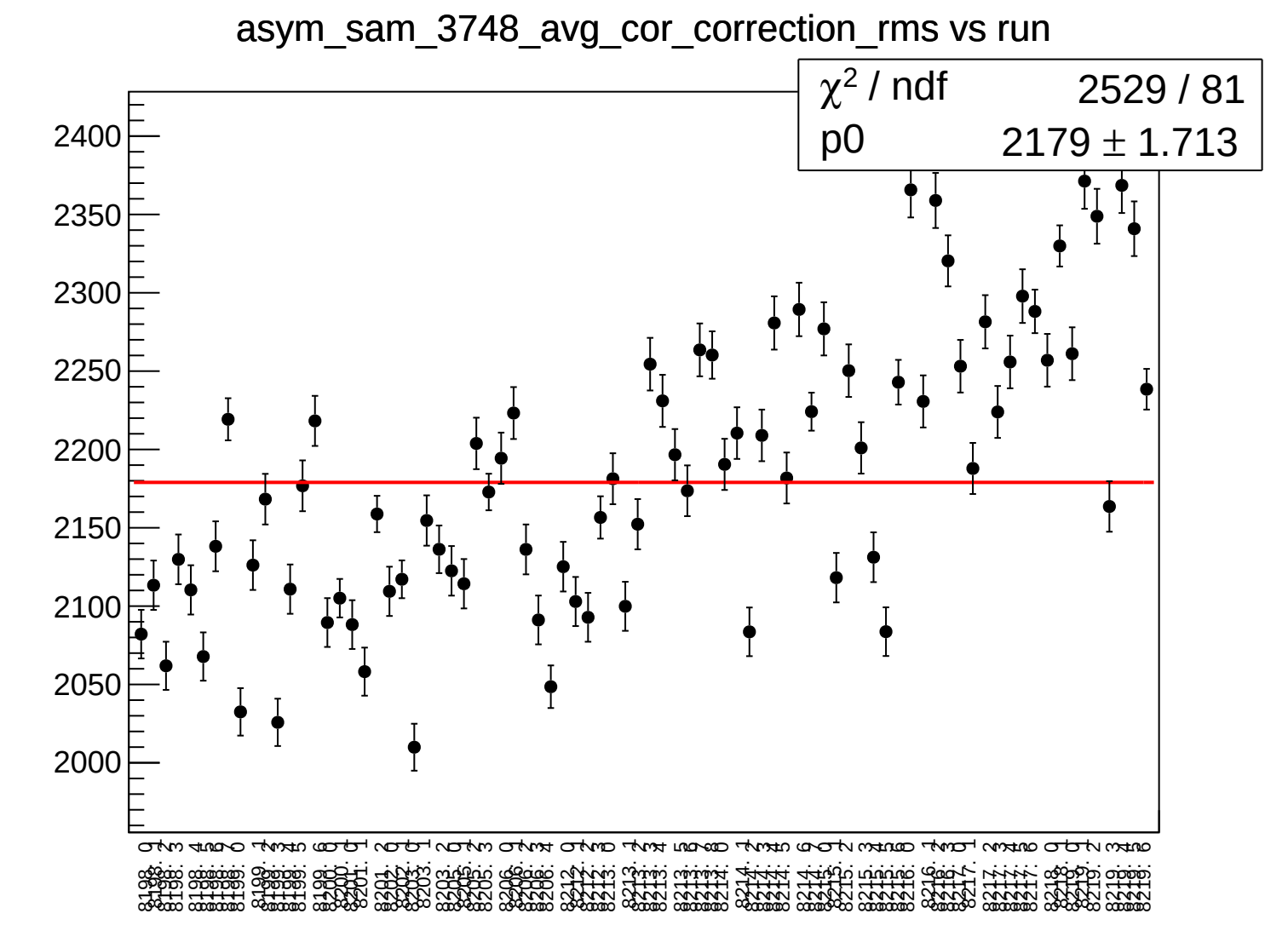

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ² / ndf 91.34 / 81
p0 −2831 ± 2422
pull
Entries 82
Mean −698.6
Std Dev 0
pull1D
Entries 82
Mean 0.005192
Std Dev 1.055

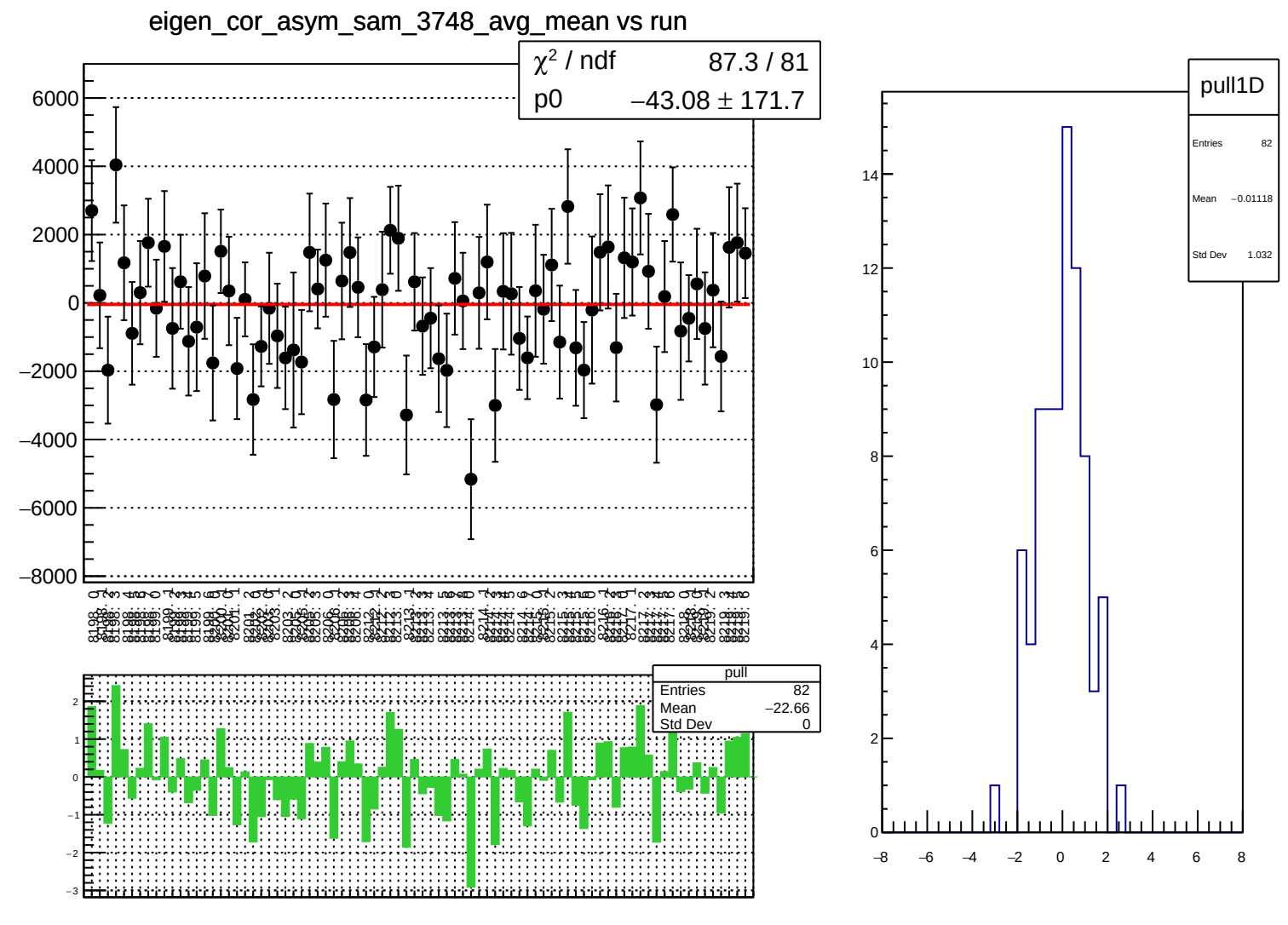

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 2529 / 81
p0 2179 ± 1.713
2400
2350
2300
2250
2200
2150
2100
2050
2000

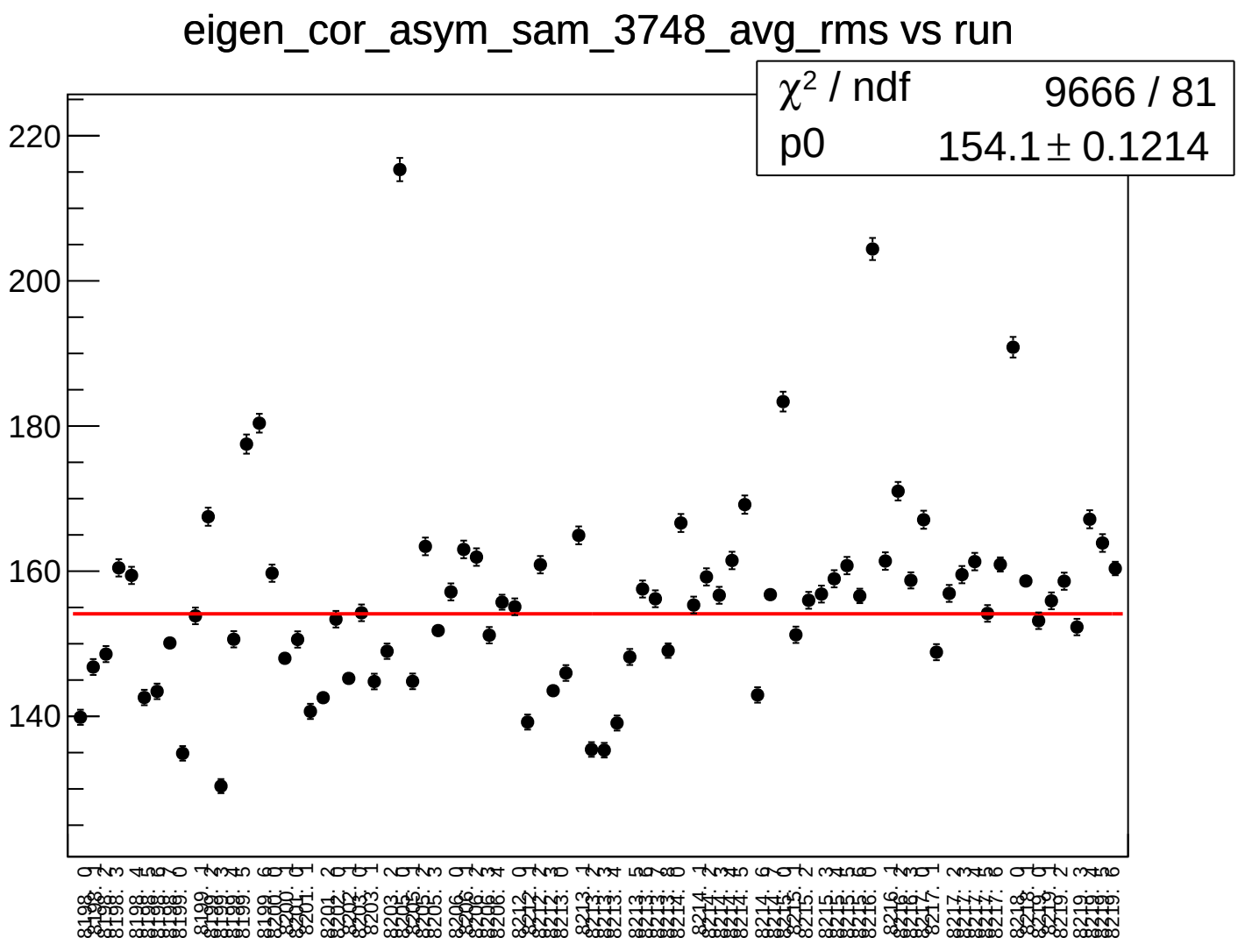

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 87.3 / 81
p0 −43.08 ± 171.7
pull
Entries 82
Mean −22.66
Std Dev 0
pull1D
Entries 82
Mean −0.01118
Std Dev 1.032

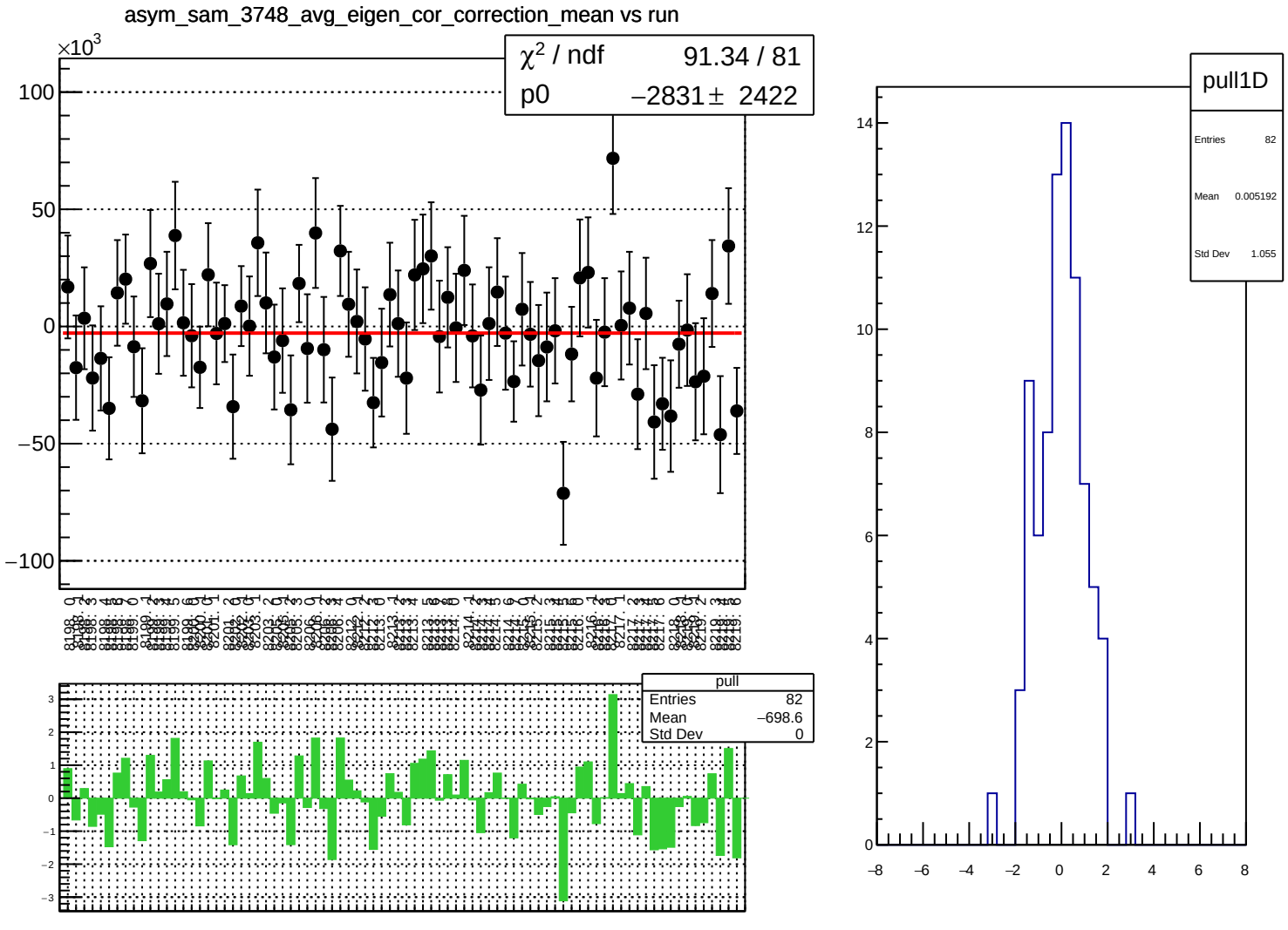

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 9666 / 81
p0 154.1 ± 0.1214
220
200
180
160
140

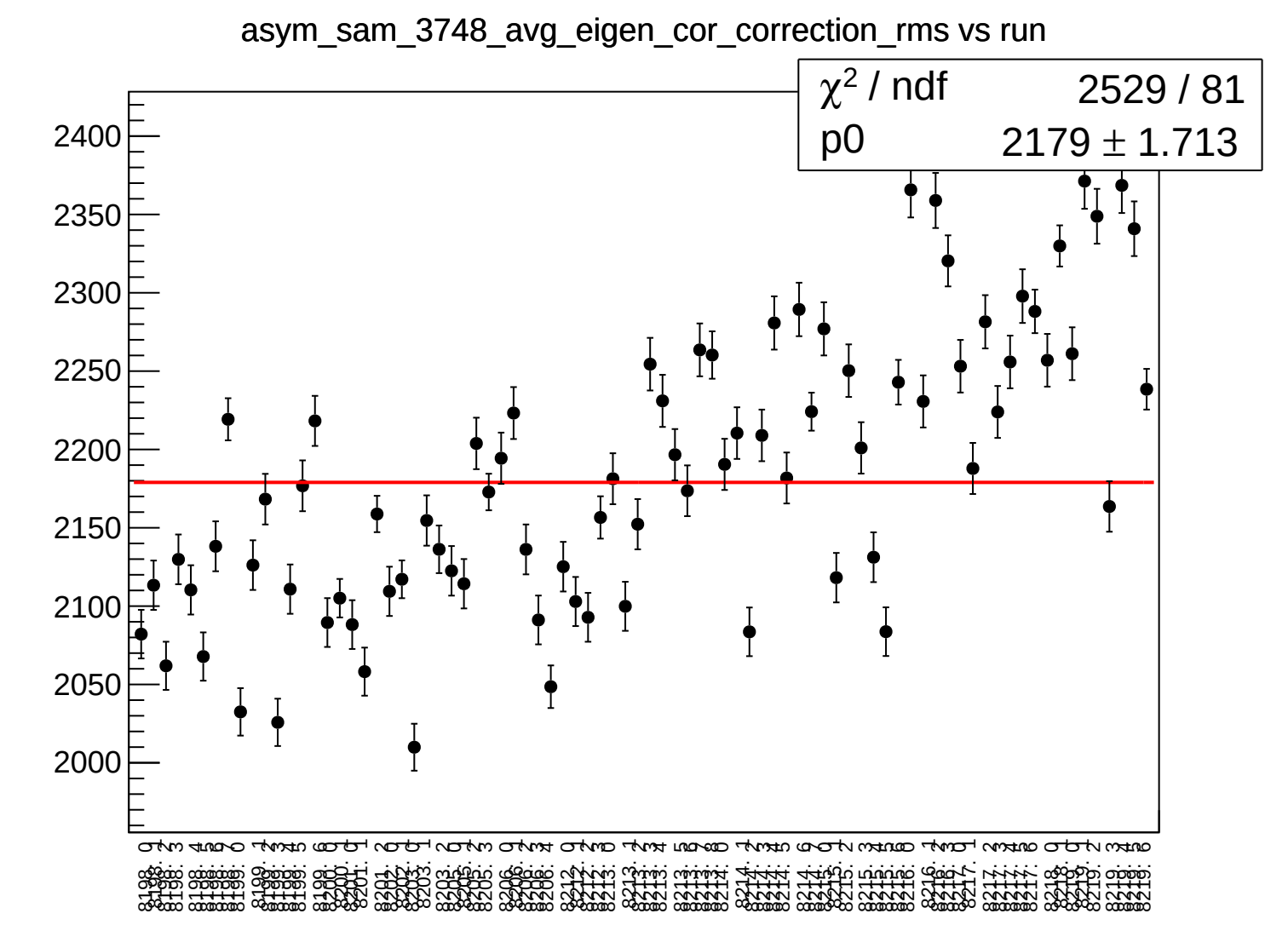

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 91.34 / 81
p0 −2831 ± 2422
100
50
0
−50
−100
pull
Entries 82
Mean −698.6
Std Dev 0
pull1D
Entries 82
Mean 0.005192
Std Dev 1.055

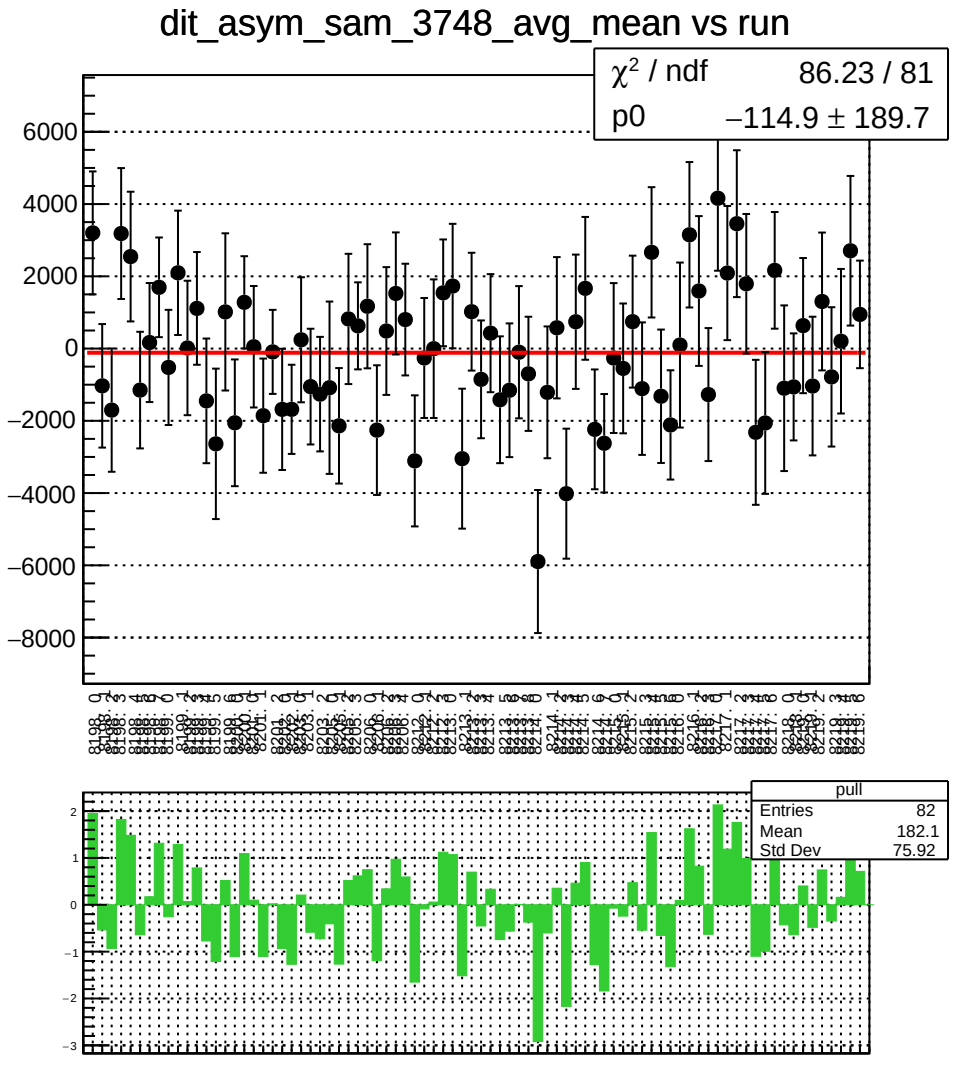

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 2529 / 81
p0 2179 ± 1.713
2400
2350
2300
2250
2200
2150
2100
2050
2000

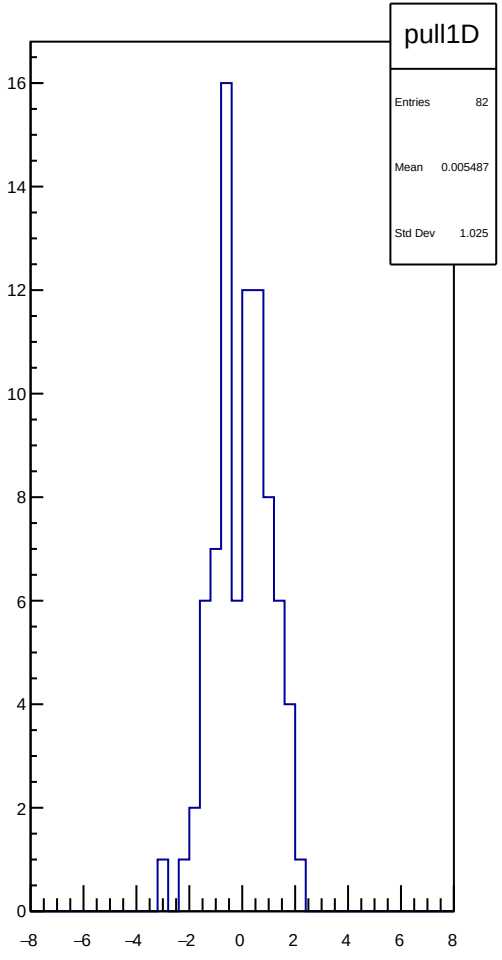

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 87.3 / 81
p0 −43.08 ± 171.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 82
Mean −22.66
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.01118
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

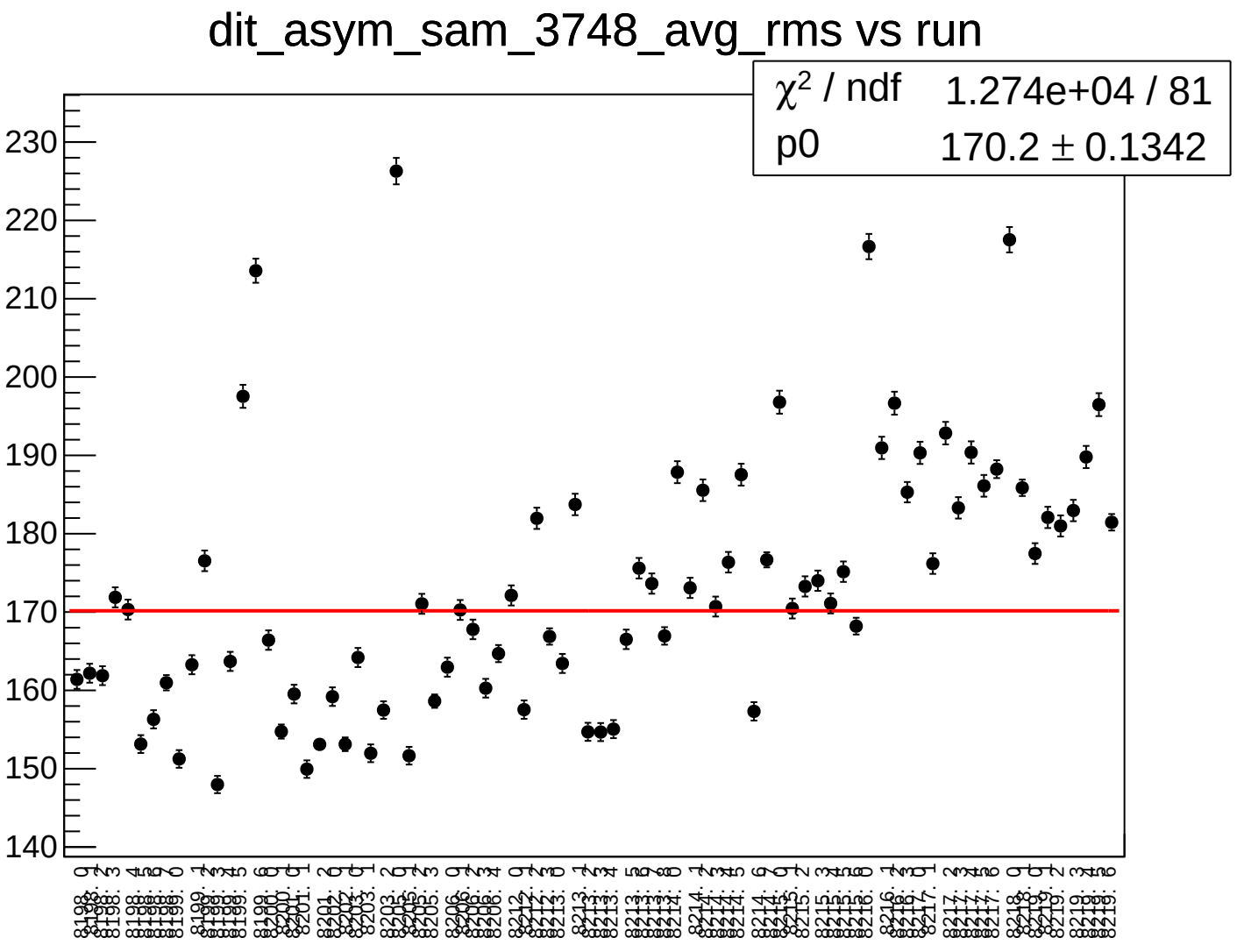

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 9666 / 81
p0 154.1 ± 0.1214
220
200
180
160
140

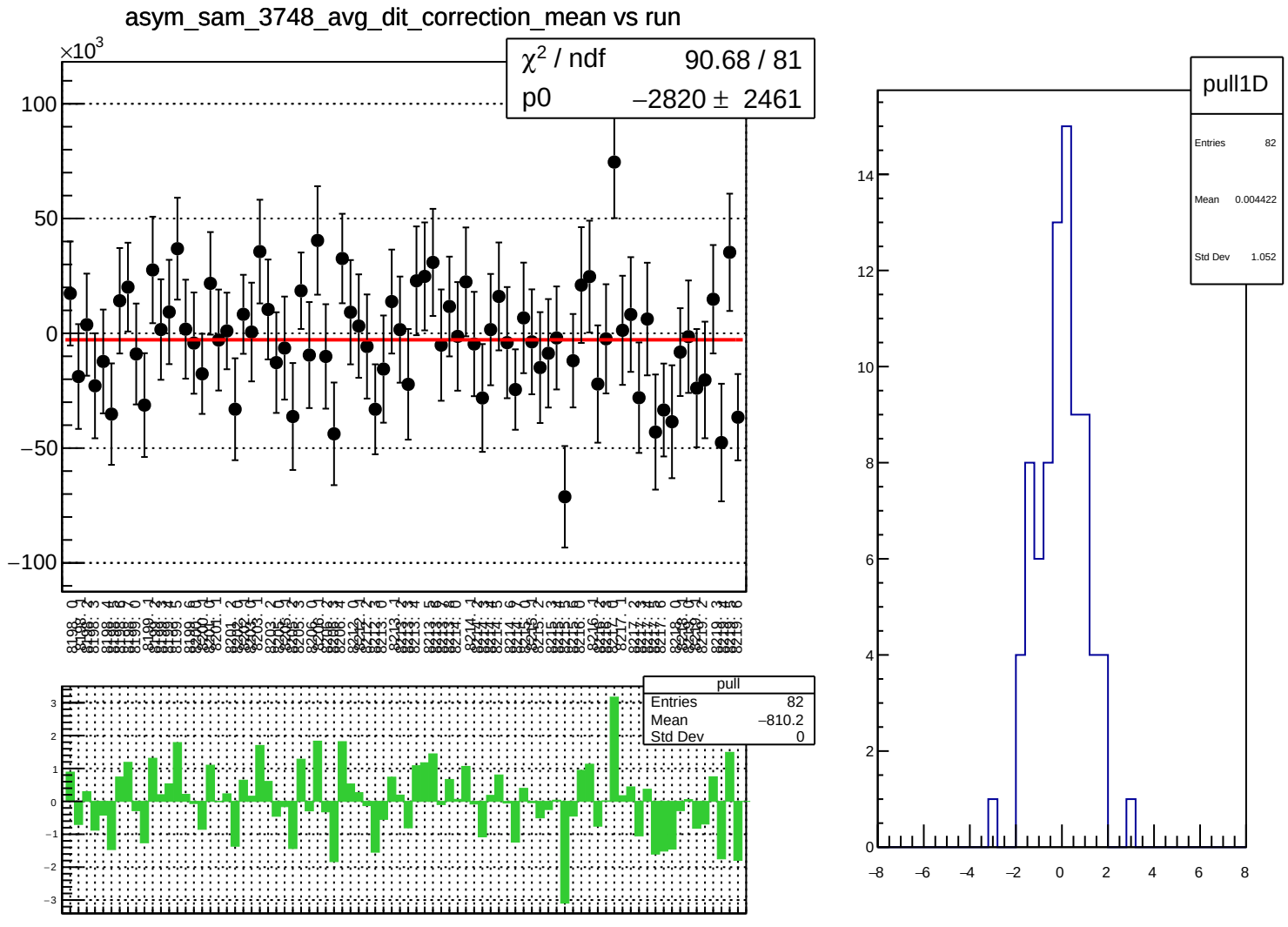

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.34 / 81
p0 −2831 ± 2422
pull
Entries 82
Mean −698.6
Std Dev 0
pull1D
Entries 82
Mean 0.005192
Std Dev 1.055

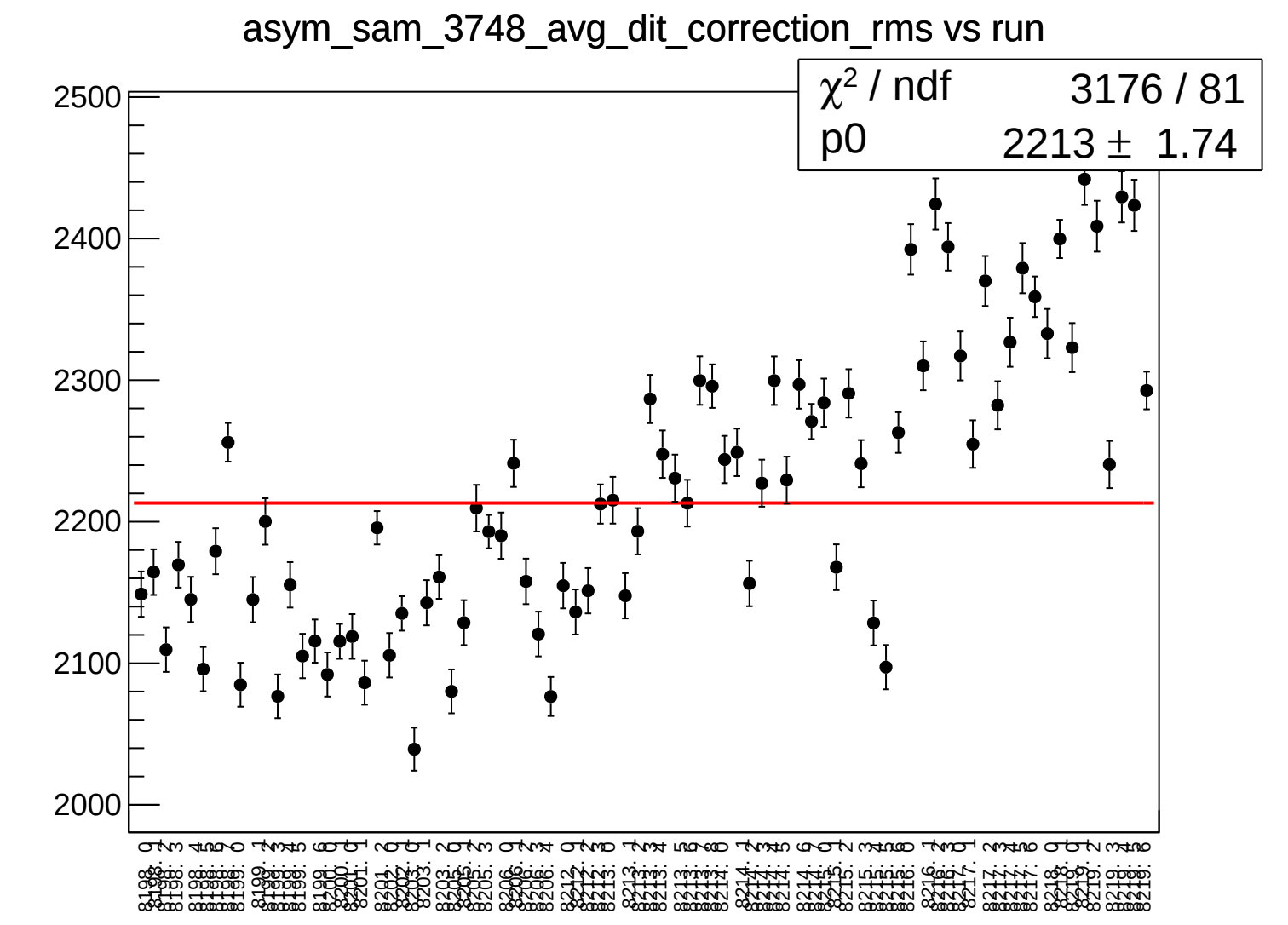

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 2529 / 81
p0 2179 ± 1.713
2400
2350
2300
2250
2200
2150
2100
2050
2000

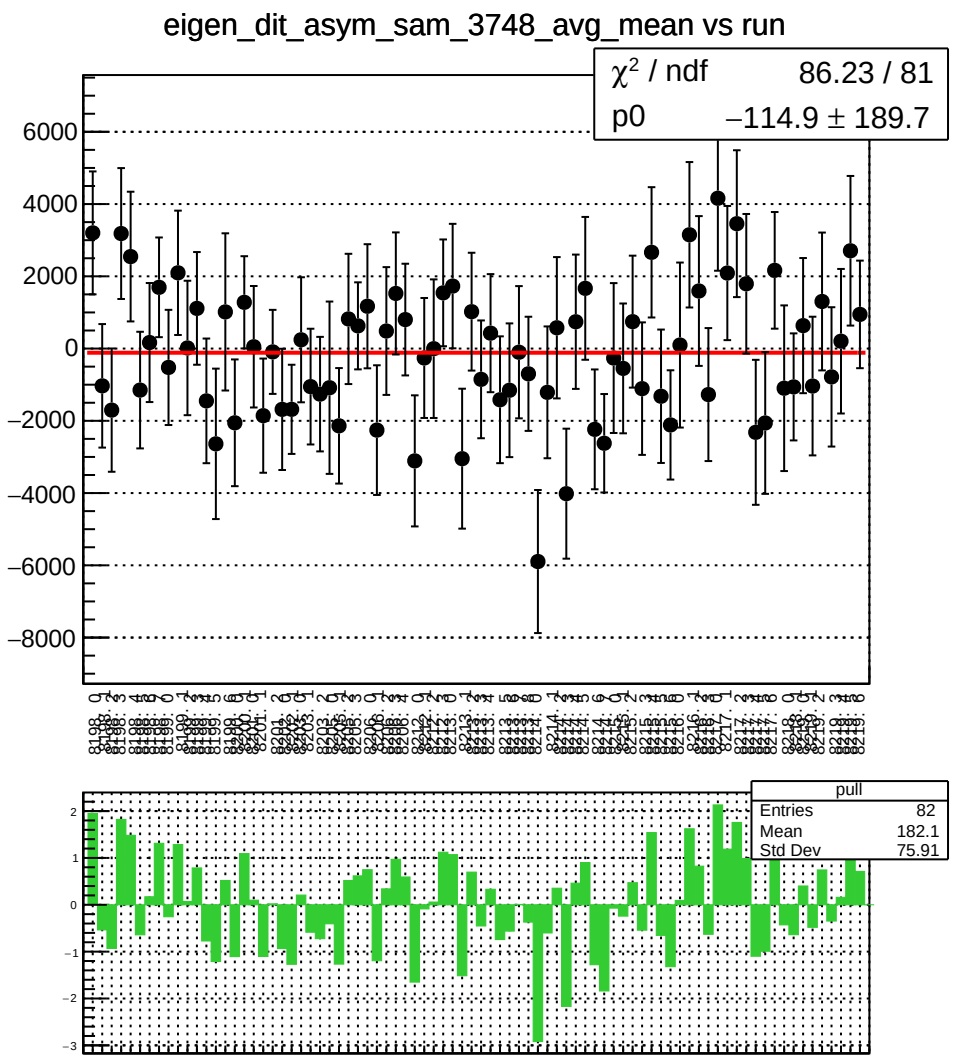

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 86.23 / 81
p0 −114.9 ± 189.7
pull
Entries 82
Mean 182.1
Std Dev 75.92

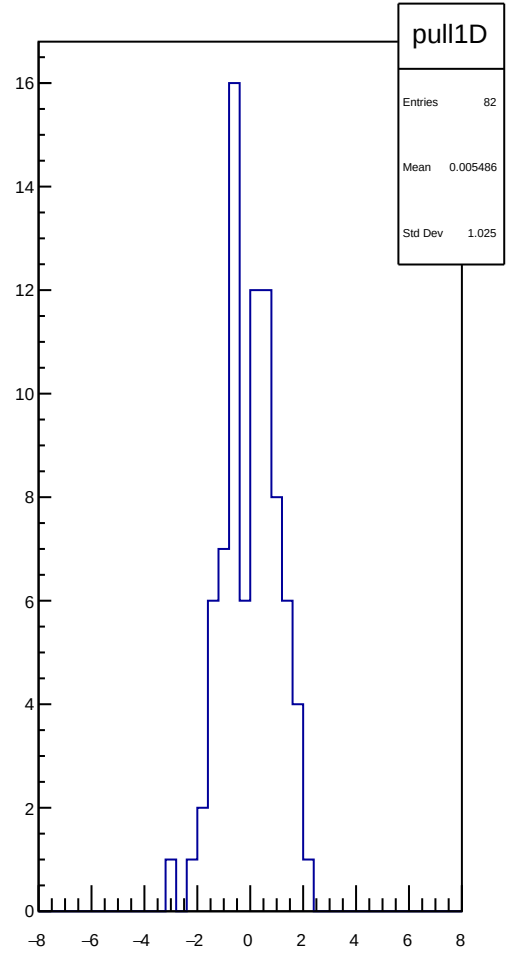

pull1D
Entries 82
Mean 0.005487
Std Dev 1.025

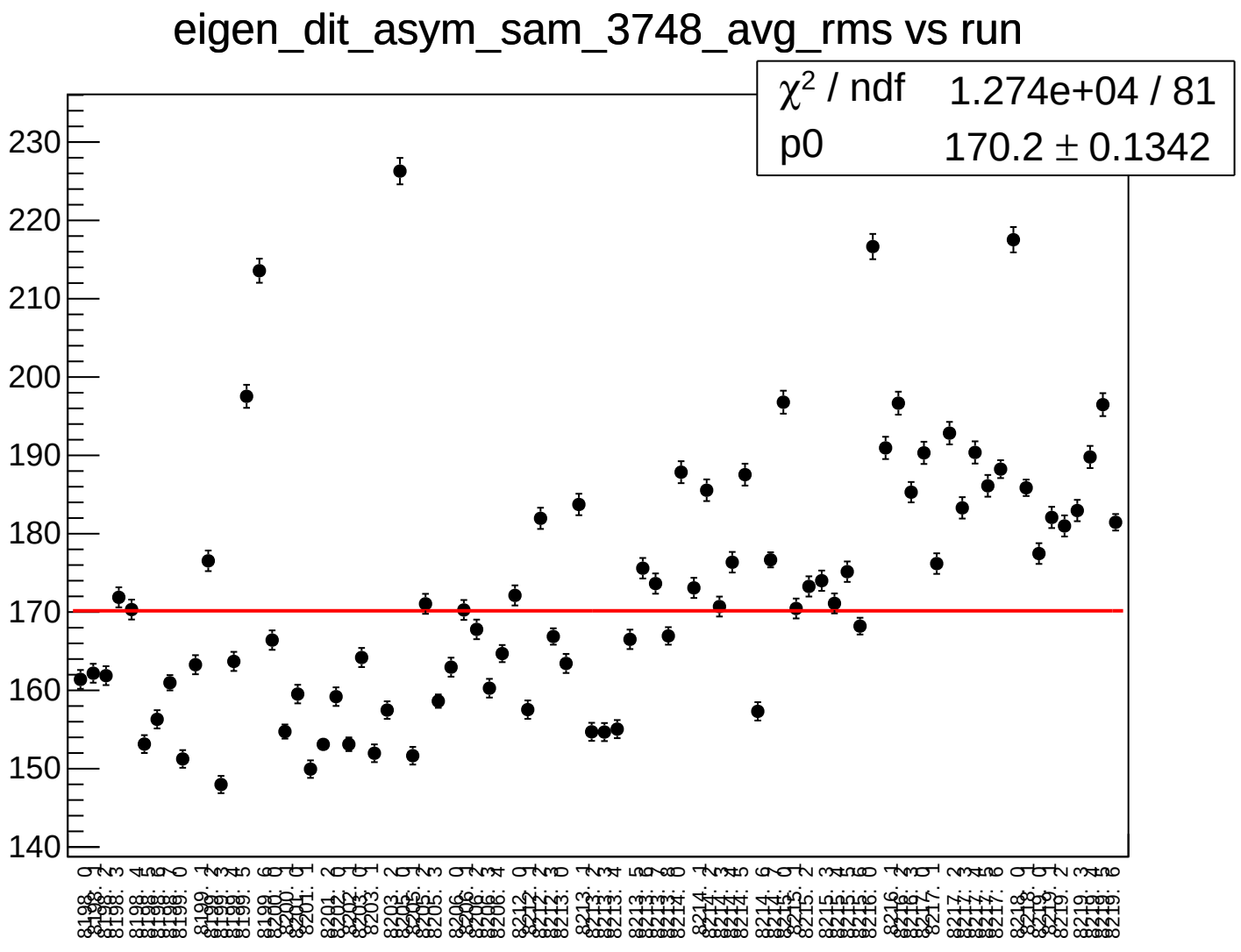

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.274e+04 / 81
p0 170.2 ± 0.1342
230
220
210
200
190
180
170
160
150
140

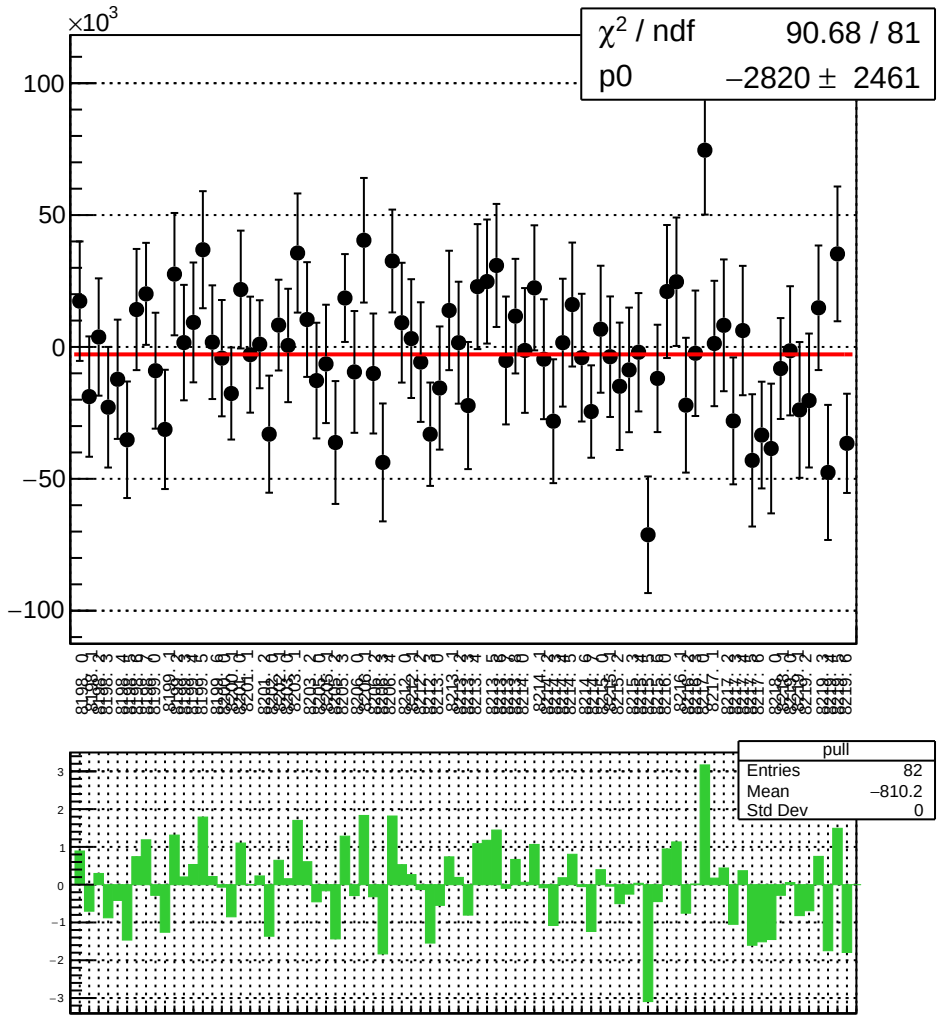

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.68 / 81
p0 −2820 ± 2461
100
50
0
−50
−100
pull
Entries 82
Mean −810.2
Std Dev 0
pull1D
Entries 82
Mean 0.004422
Std Dev 1.052

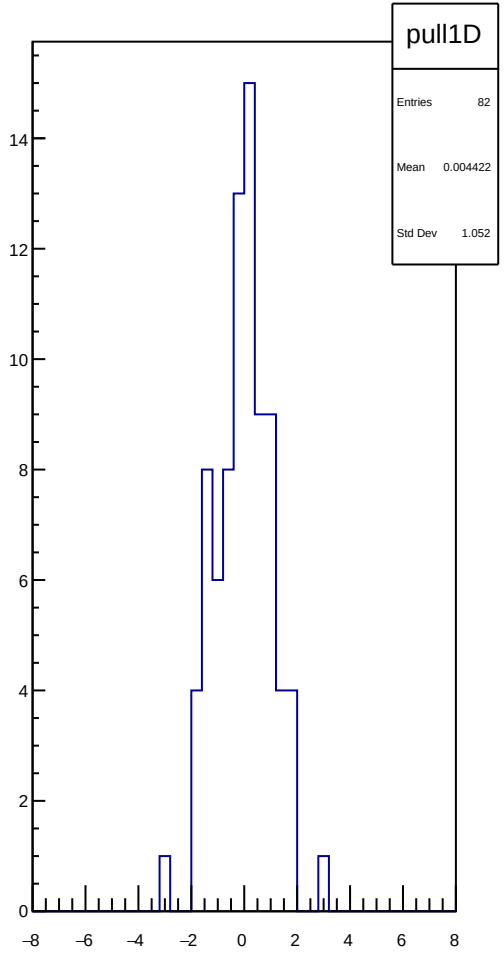

asym_sam_3748_avg_dit_correction_rms vs run
χ2 / ndf 3176 / 81
p0 2213 ± 1.74
2500
2400
2300
2200
2100
2000

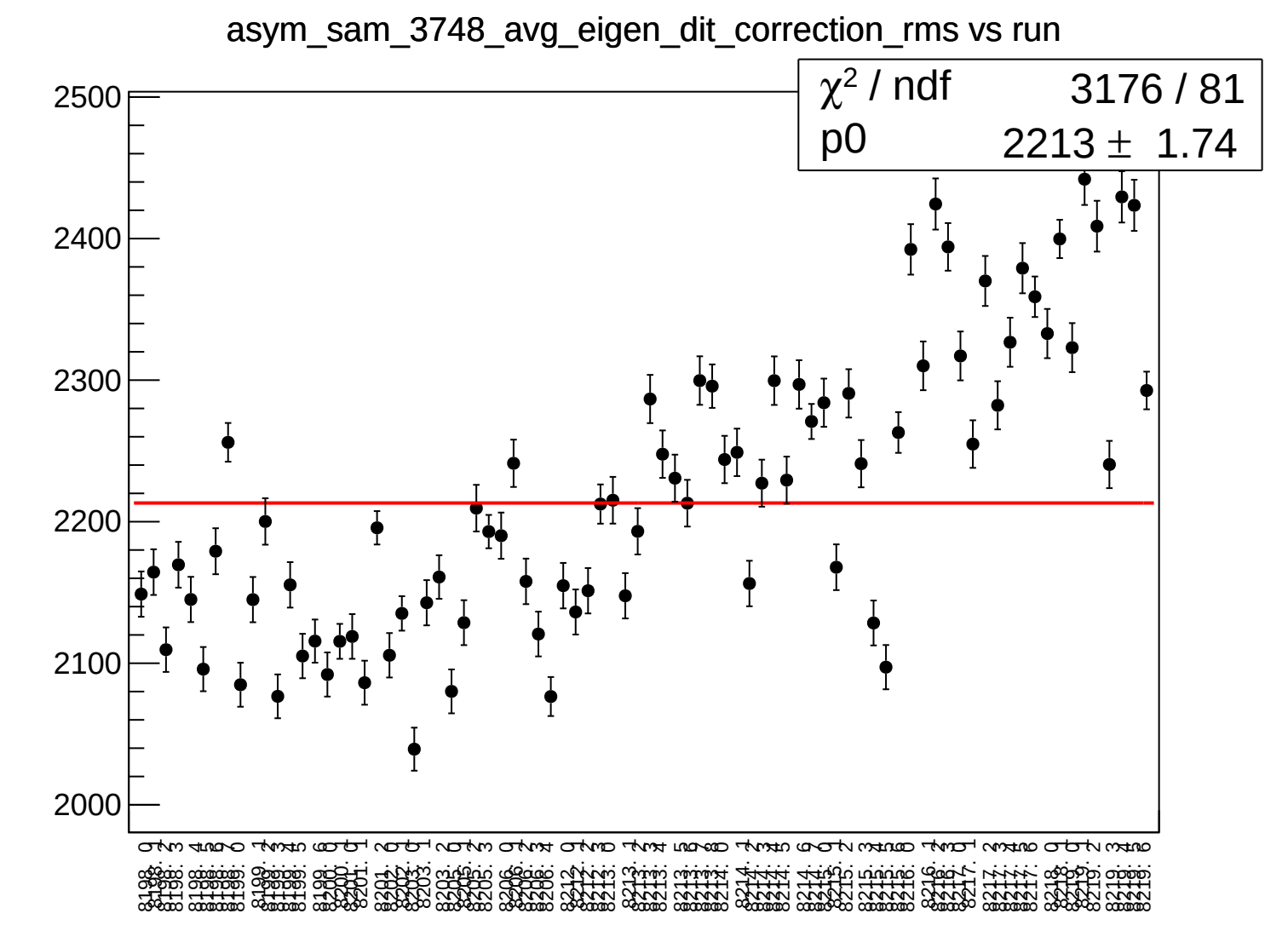

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 86.23 / 81
p0 −114.9 ± 189.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 82
Mean 182.1
Std Dev 75.91
2
1
0
−1
−2
−3

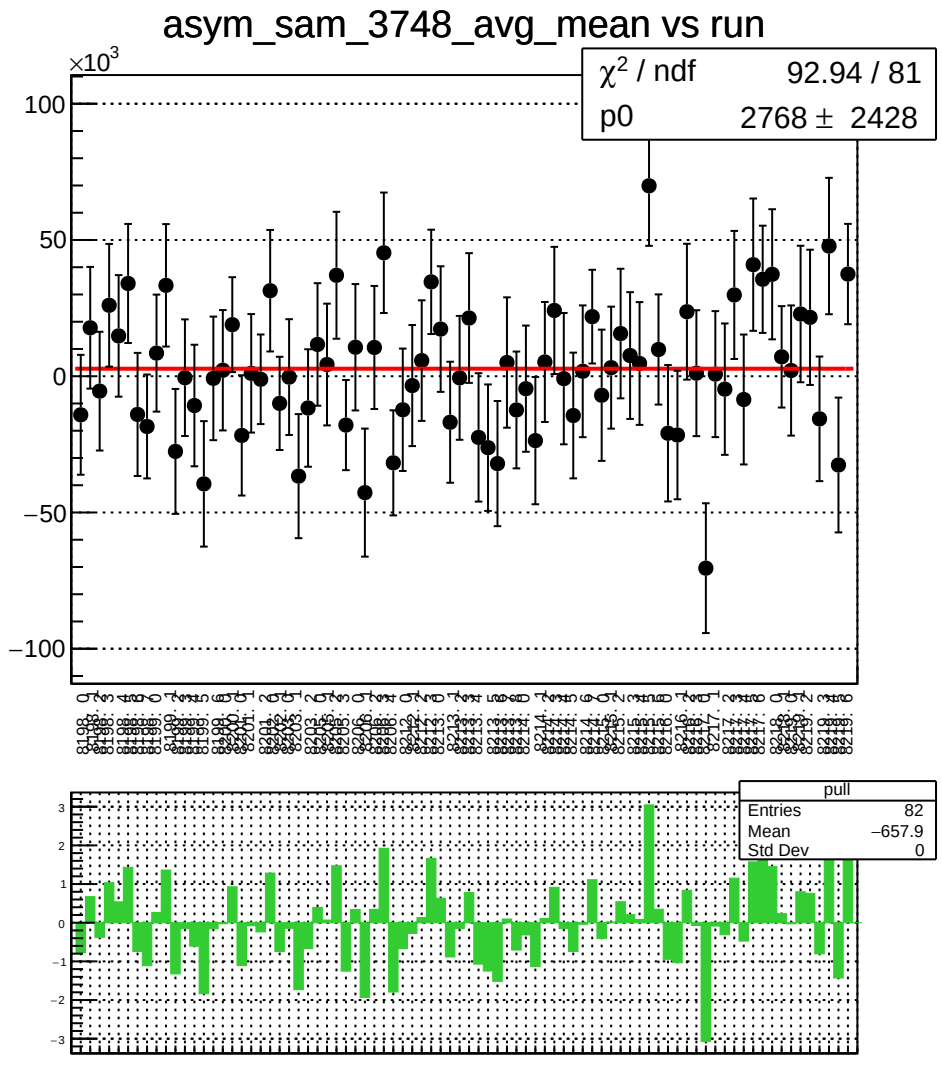

pull1D
Entries 82
Mean 0.005486
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

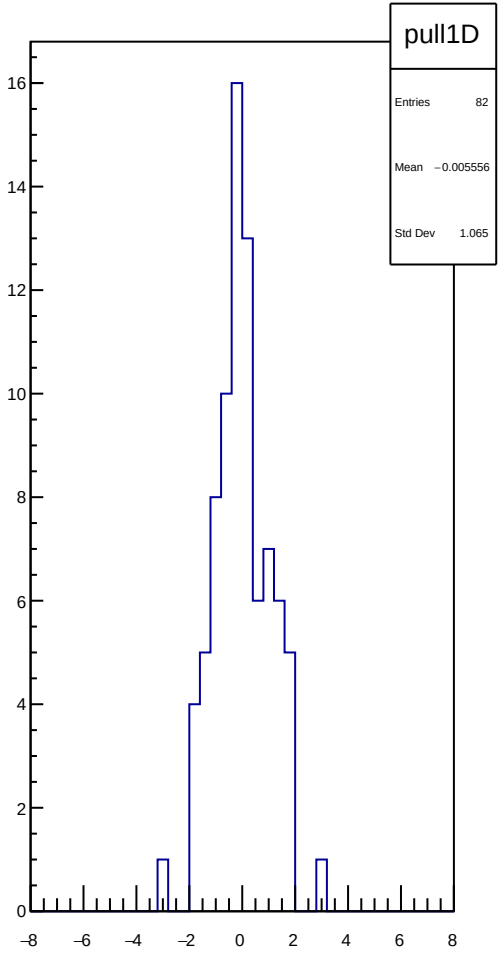

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.274e+04 / 81
p0 170.2 ± 0.1342
230
220
210
200
190
180
170
160
150
140

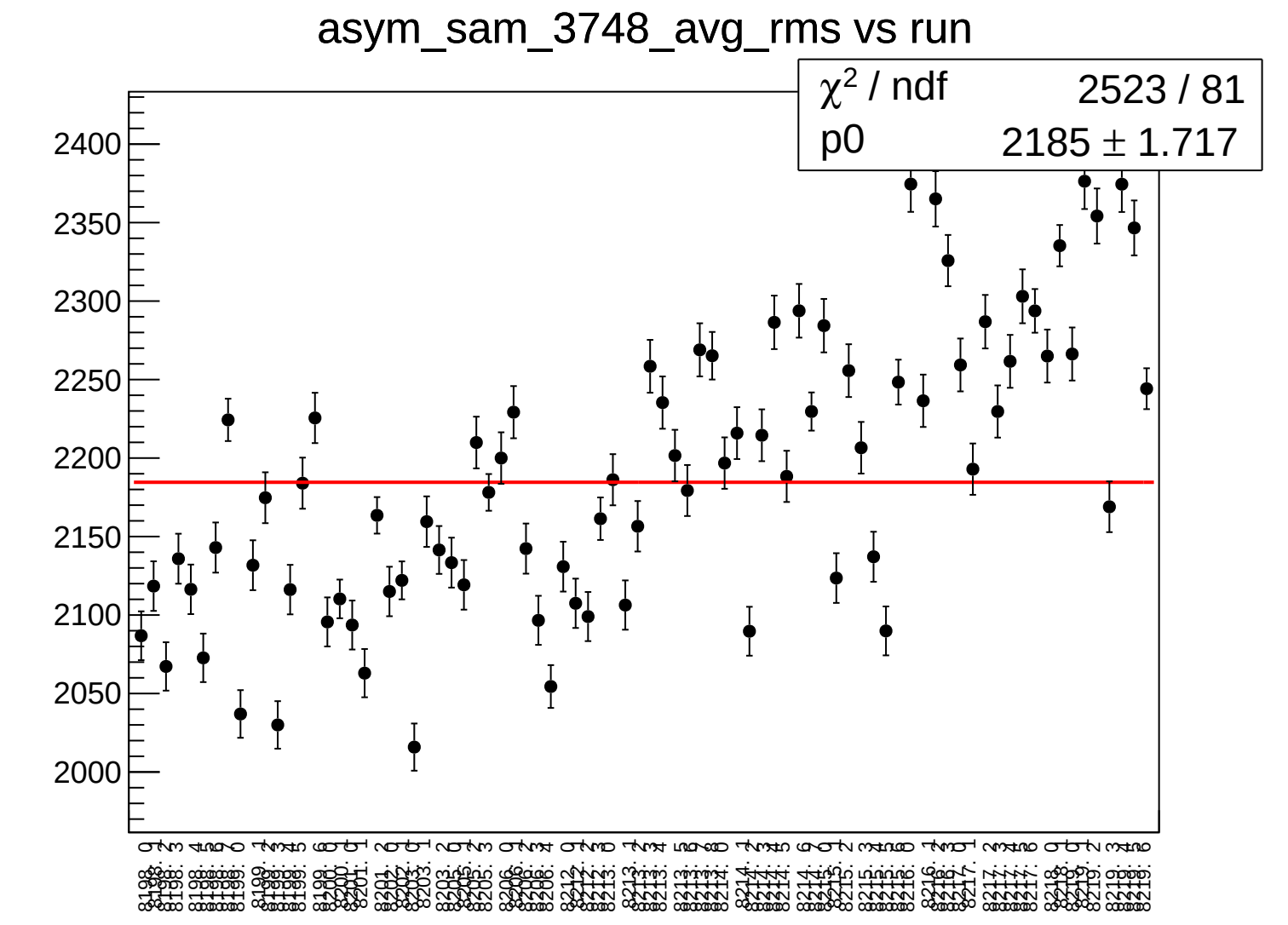

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.68 / 81
p0 −2820 ± 2461
100
50
0
−50
−100
pull
Entries 82
Mean −810.2
Std Dev 0
3
2
1
0
−1
−2
−3

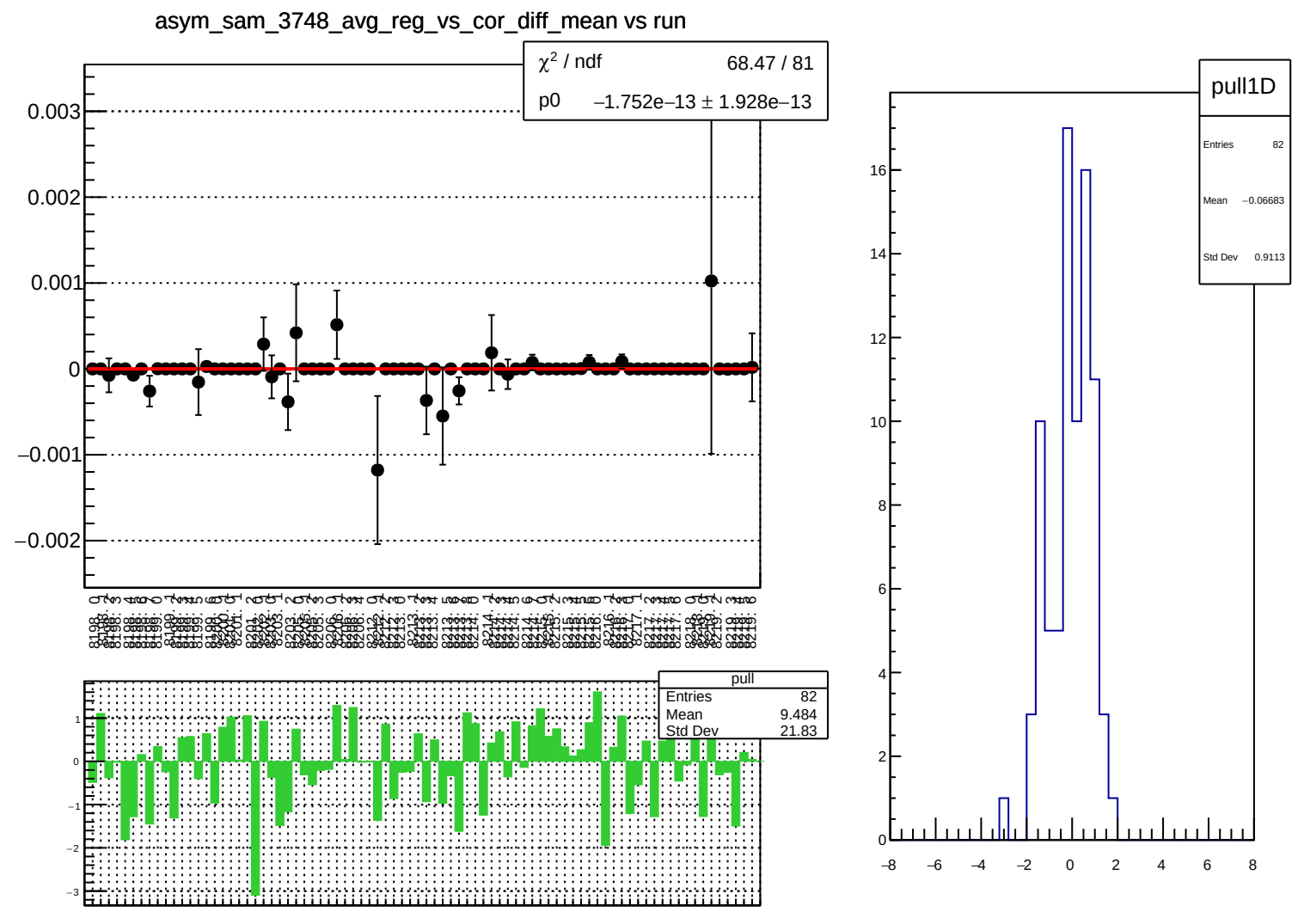

pull1D
Entries 82
Mean 0.004422
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

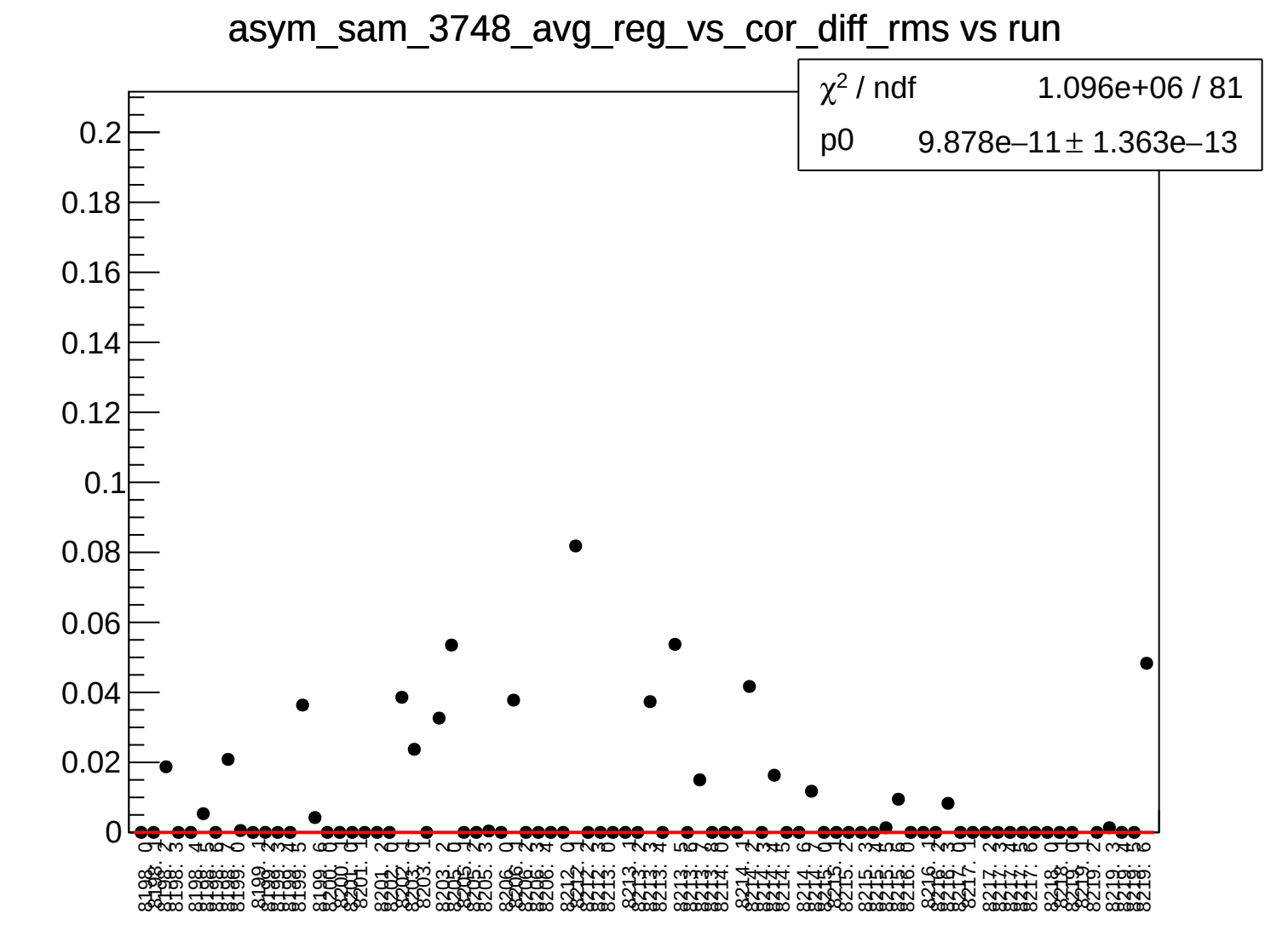

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 3176 / 81
p0 2213 ± 1.74
2500
2400
2300
2200
2100
2000

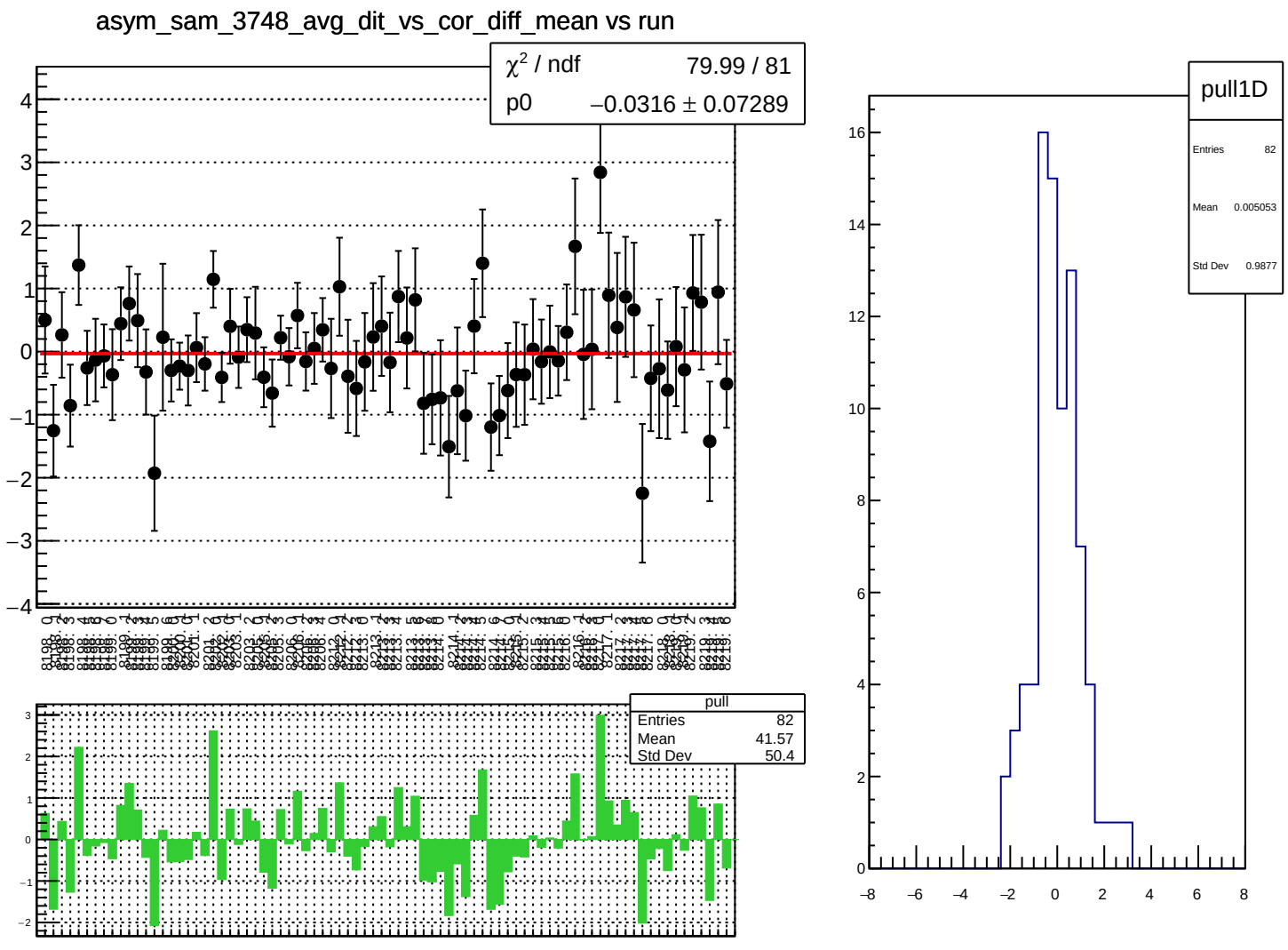

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 92.94 / 81
p0 2768 ± 2428
100
50
0
−50
−100
pull
Entries 82
Mean −657.9
Std Dev 0
3
2
1
0
−1
−2
−3

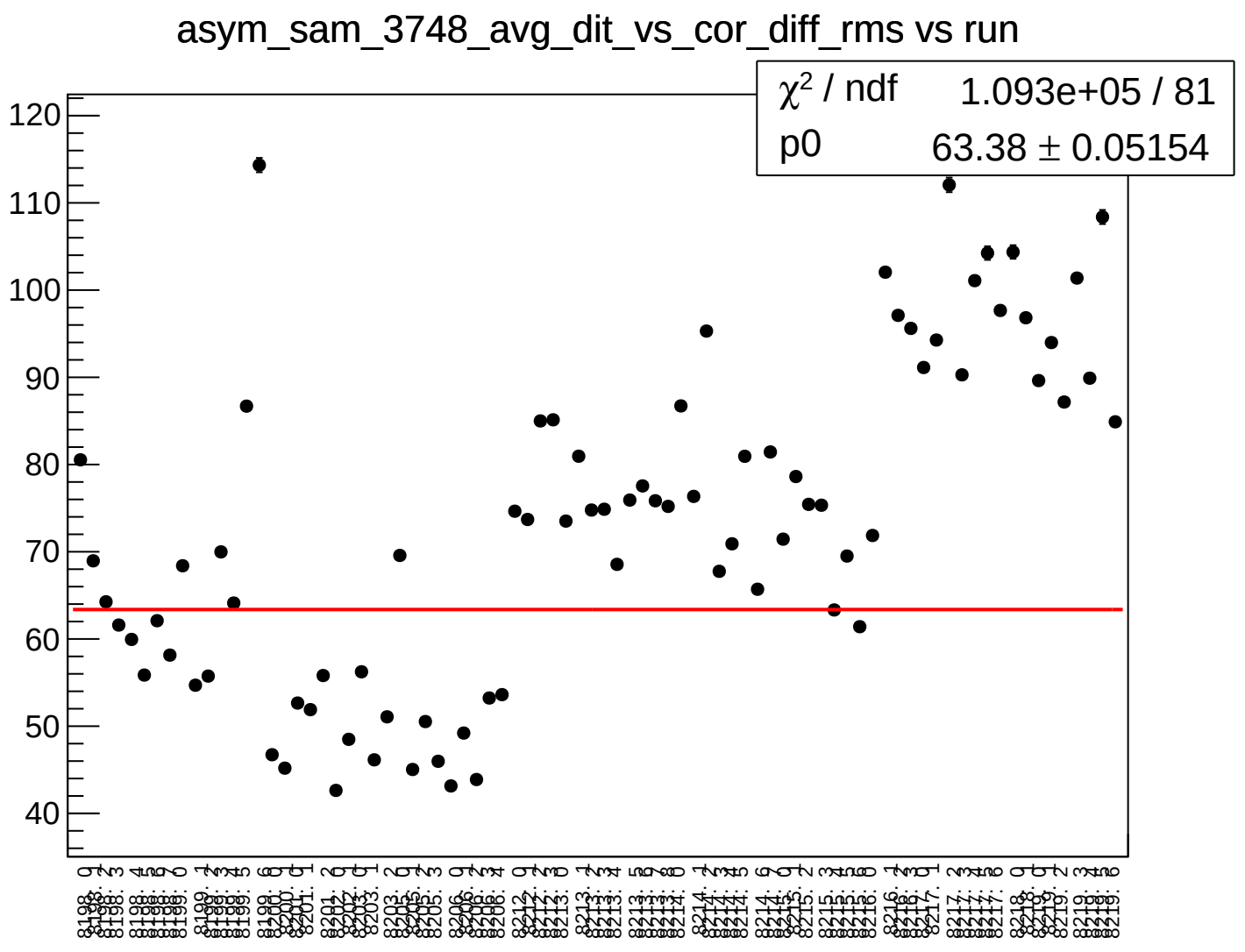

pull1D
Entries 82
Mean −0.005556
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

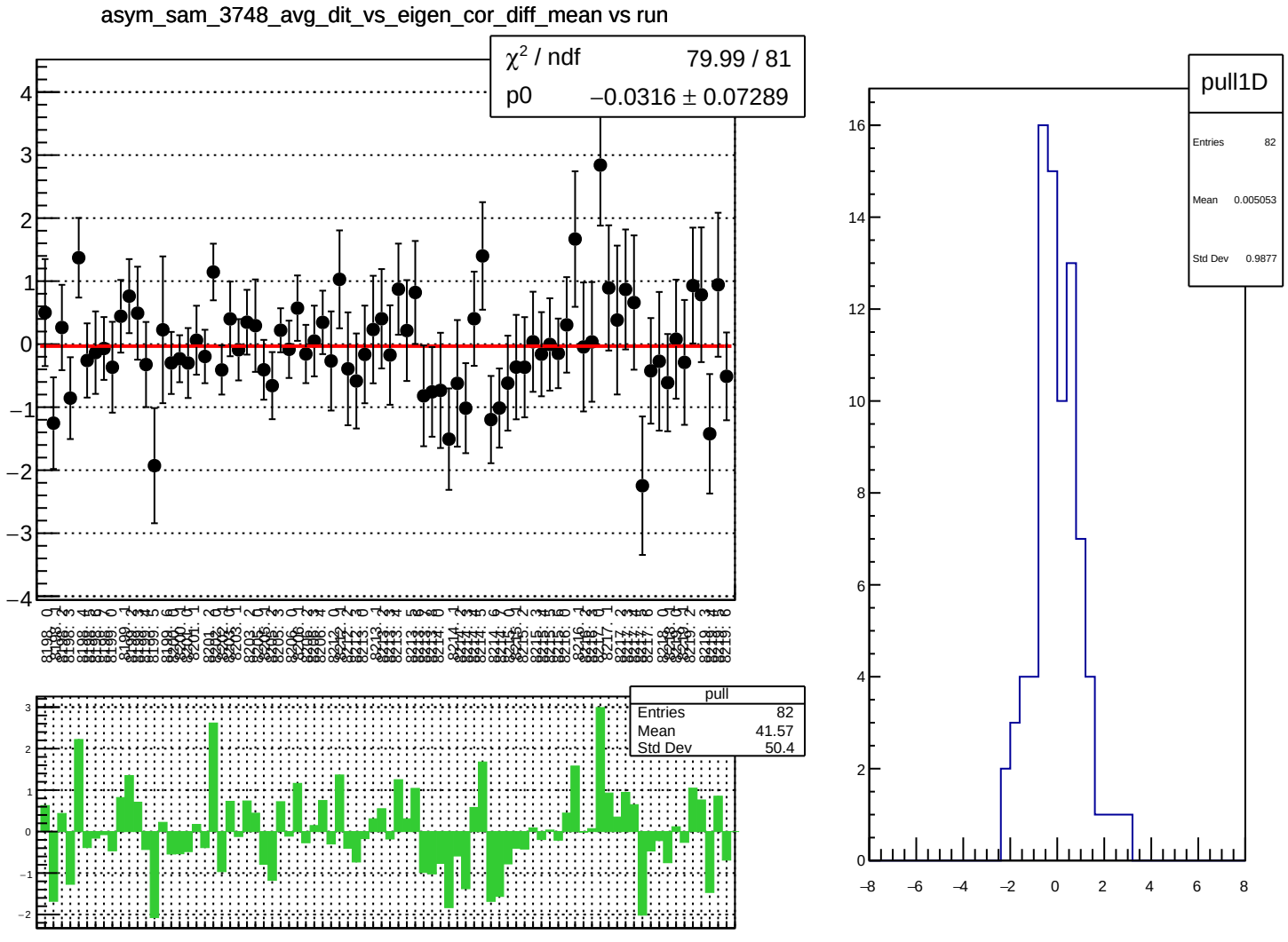

asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 2523 / 81
p0 2185 ± 1.717
2400
2350
2300
2250
2200
2150
2100
2050
2000

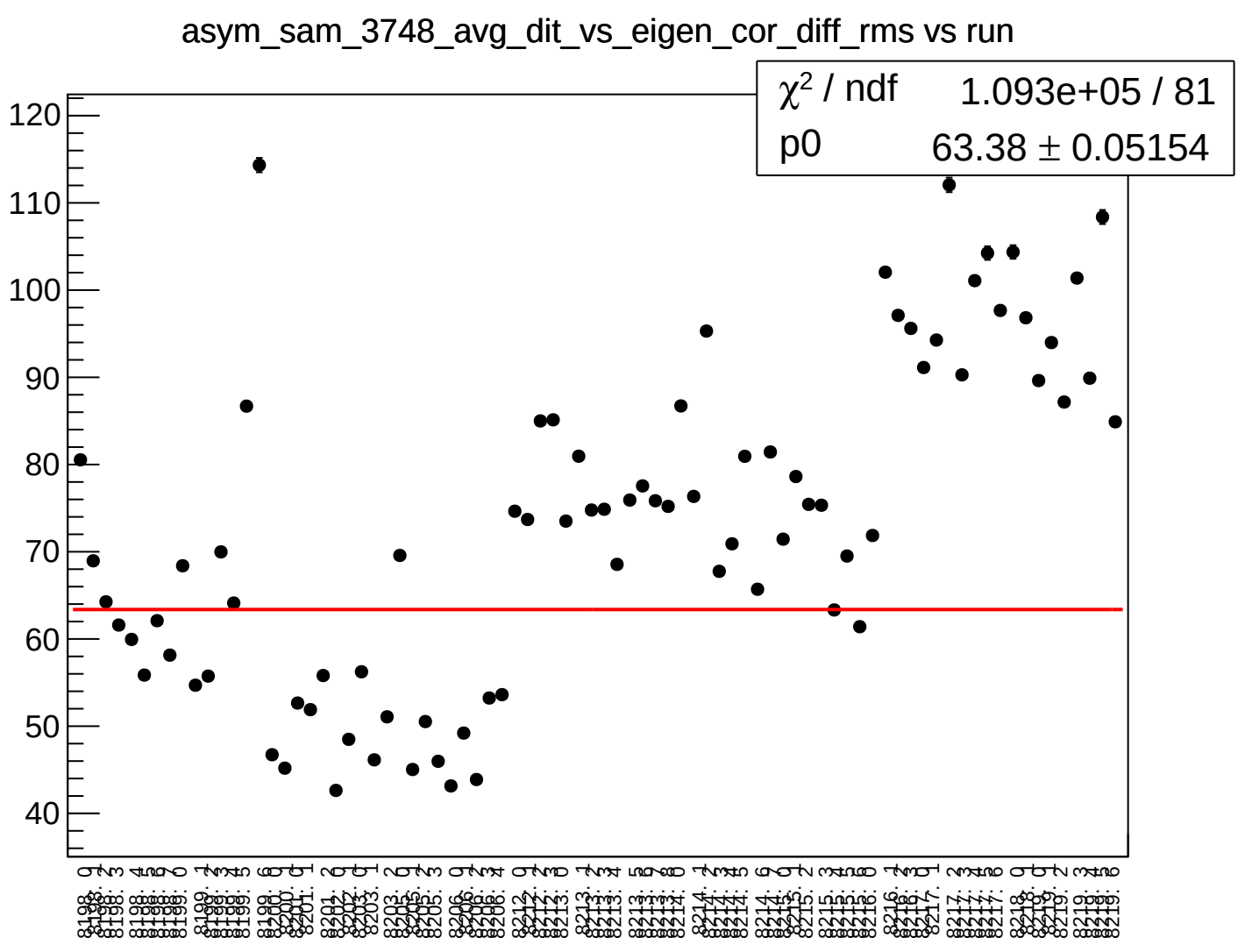

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.47 / 81
p0 −1.752e−13 ± 1.928e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 82
Mean 9.484
Std Dev 21.83
pull1D
Entries 82
Mean −0.06683
Std Dev 0.9113

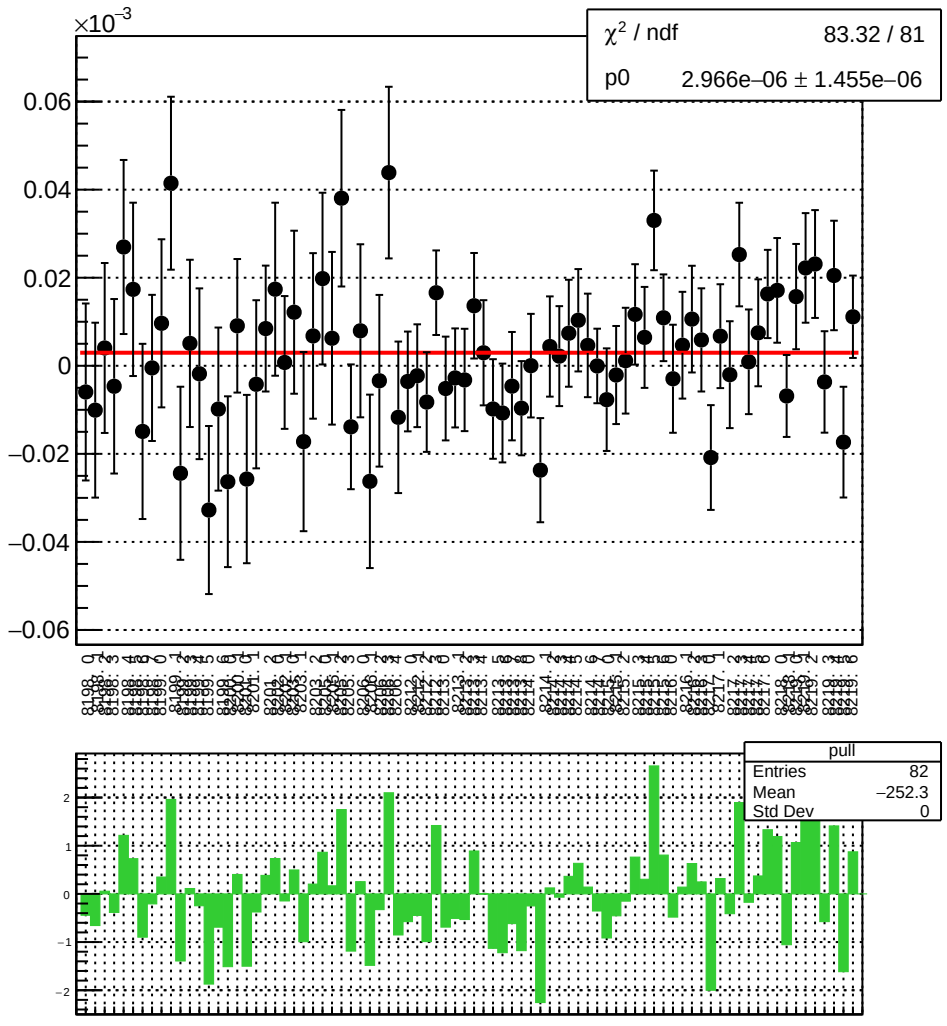

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.096e+06 / 81
p0 9.878e−11 ± 1.363e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

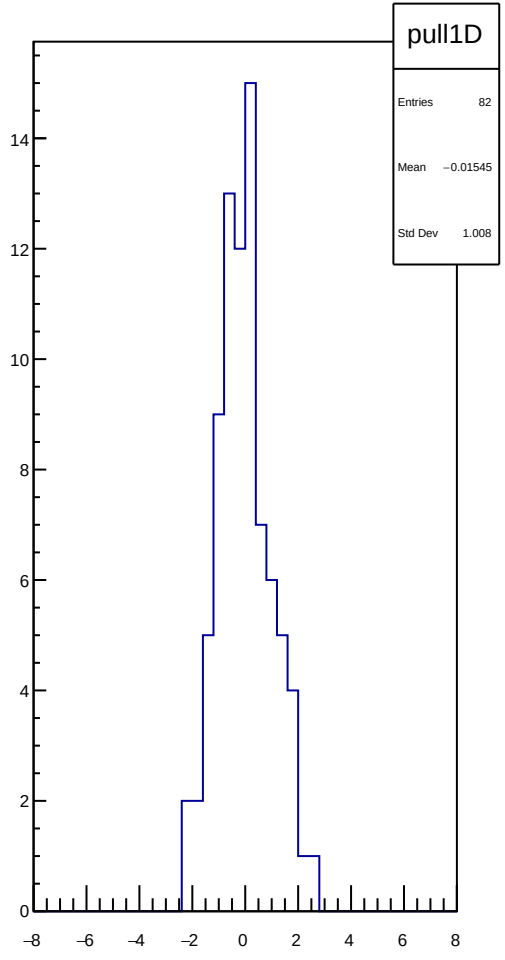

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.99 / 81
p0 −0.0316 ± 0.07289
pull
Entries 82
Mean 41.57
Std Dev 50.4
pull1D
Entries 82
Mean 0.005053
Std Dev 0.9877

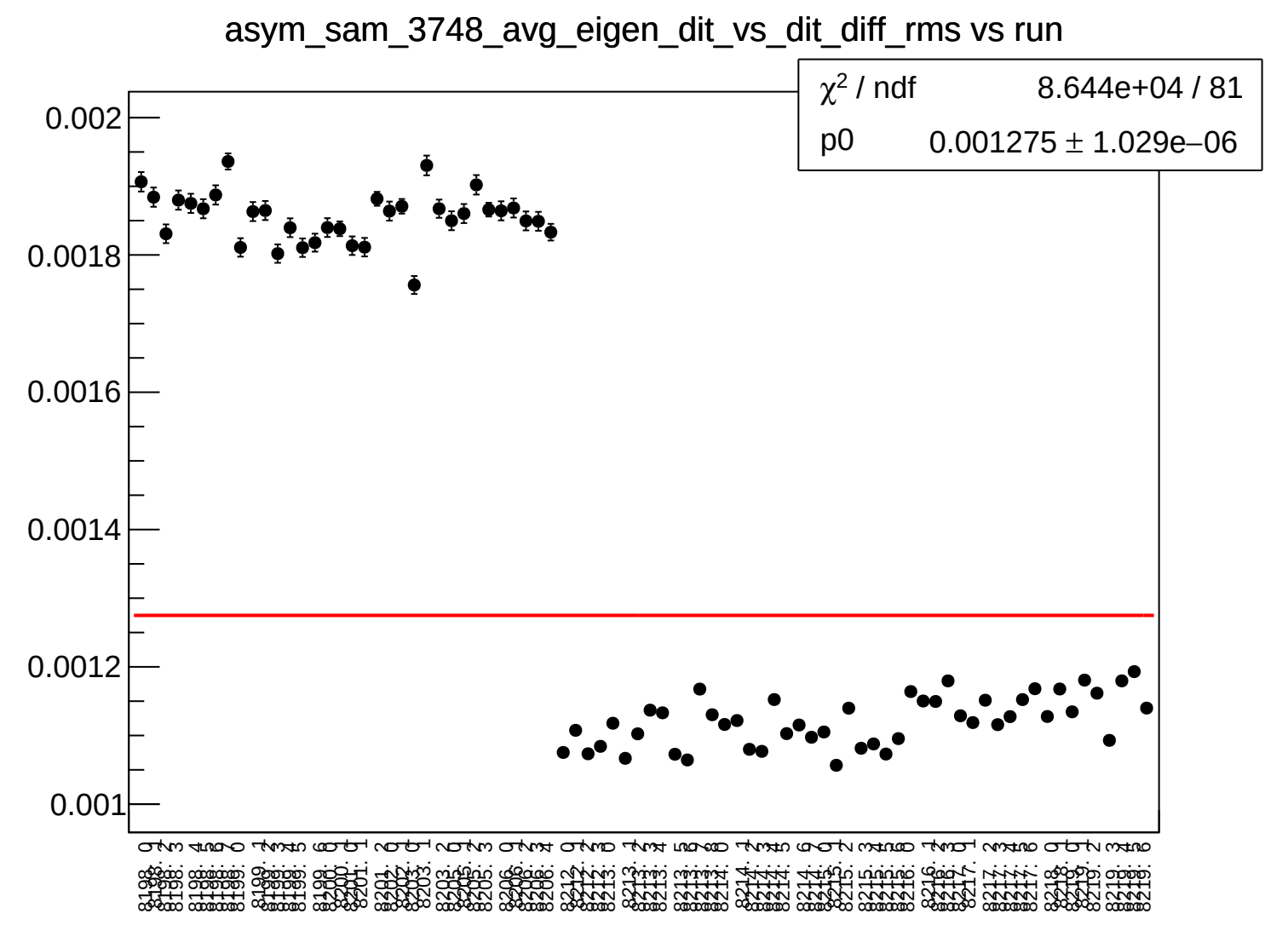

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 81
p0 63.38 ± 0.05154
120
110
100
90
80
70
60
50
40

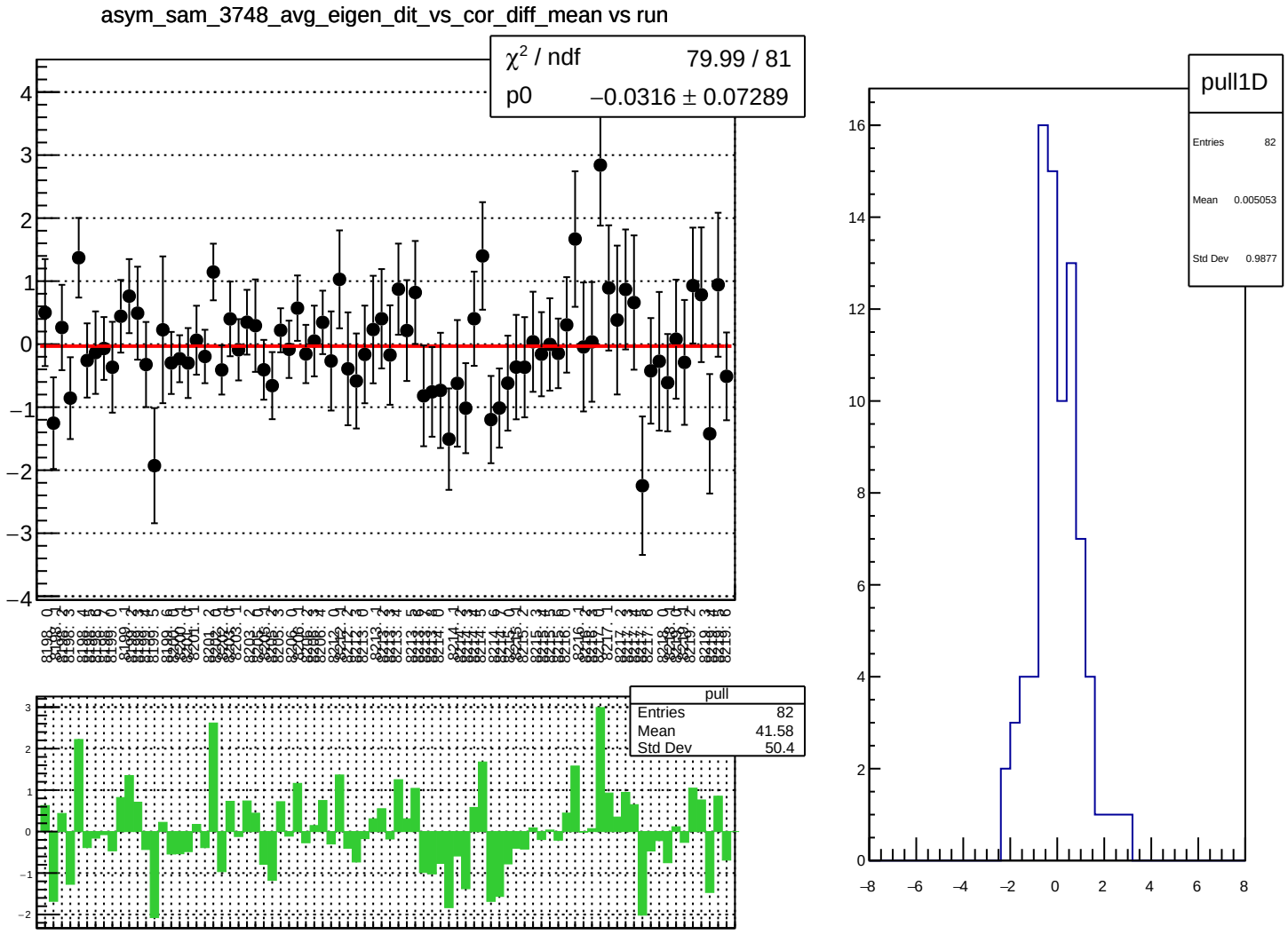

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.99 / 81
p0 −0.0316 ± 0.07289
pull
Entries 82
Mean 41.57
Std Dev 50.4
pull1D
Entries 82
Mean 0.005053
Std Dev 0.9877

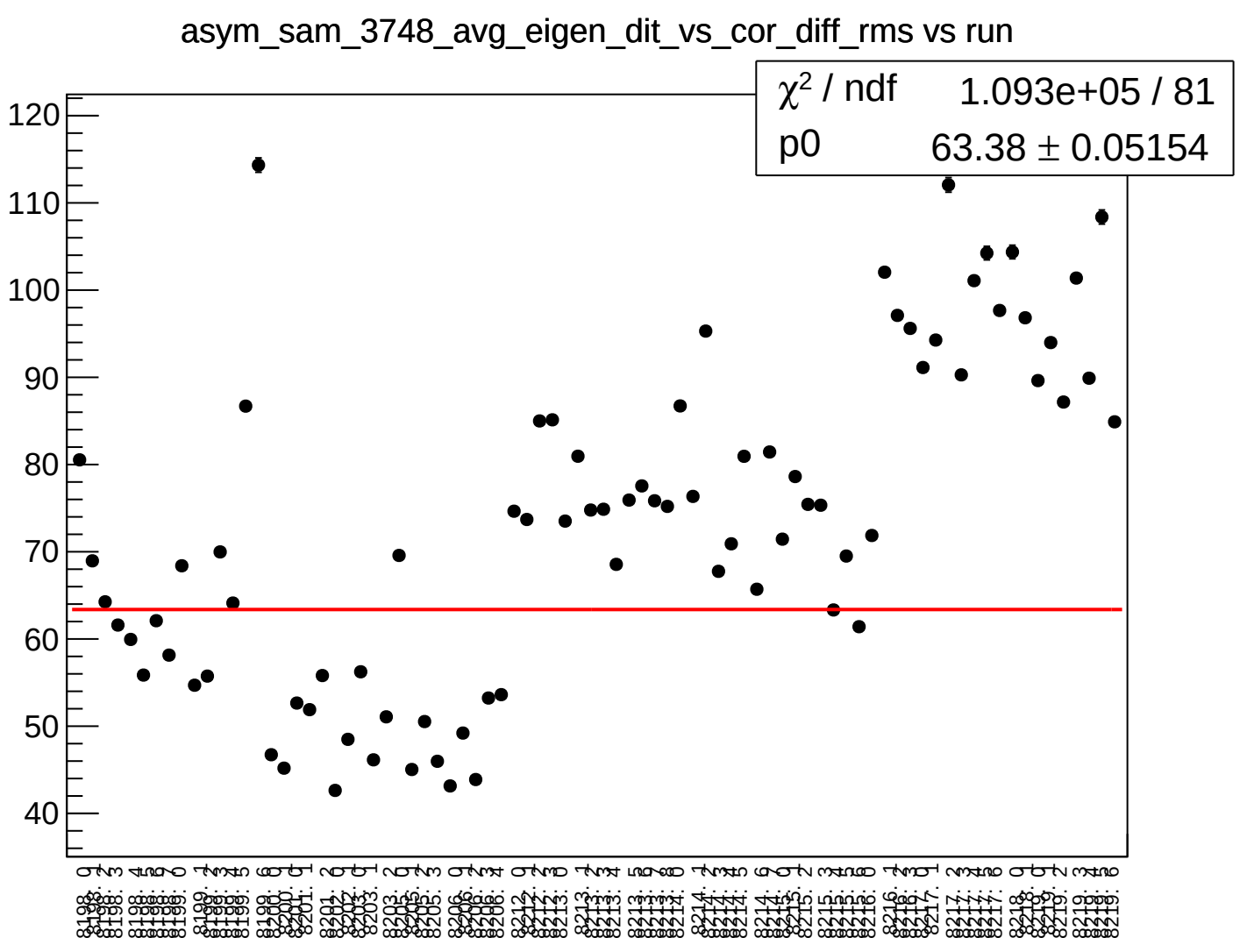

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 81
p0 63.38 ± 0.05154
120
110
100
90
80
70
60
50
40

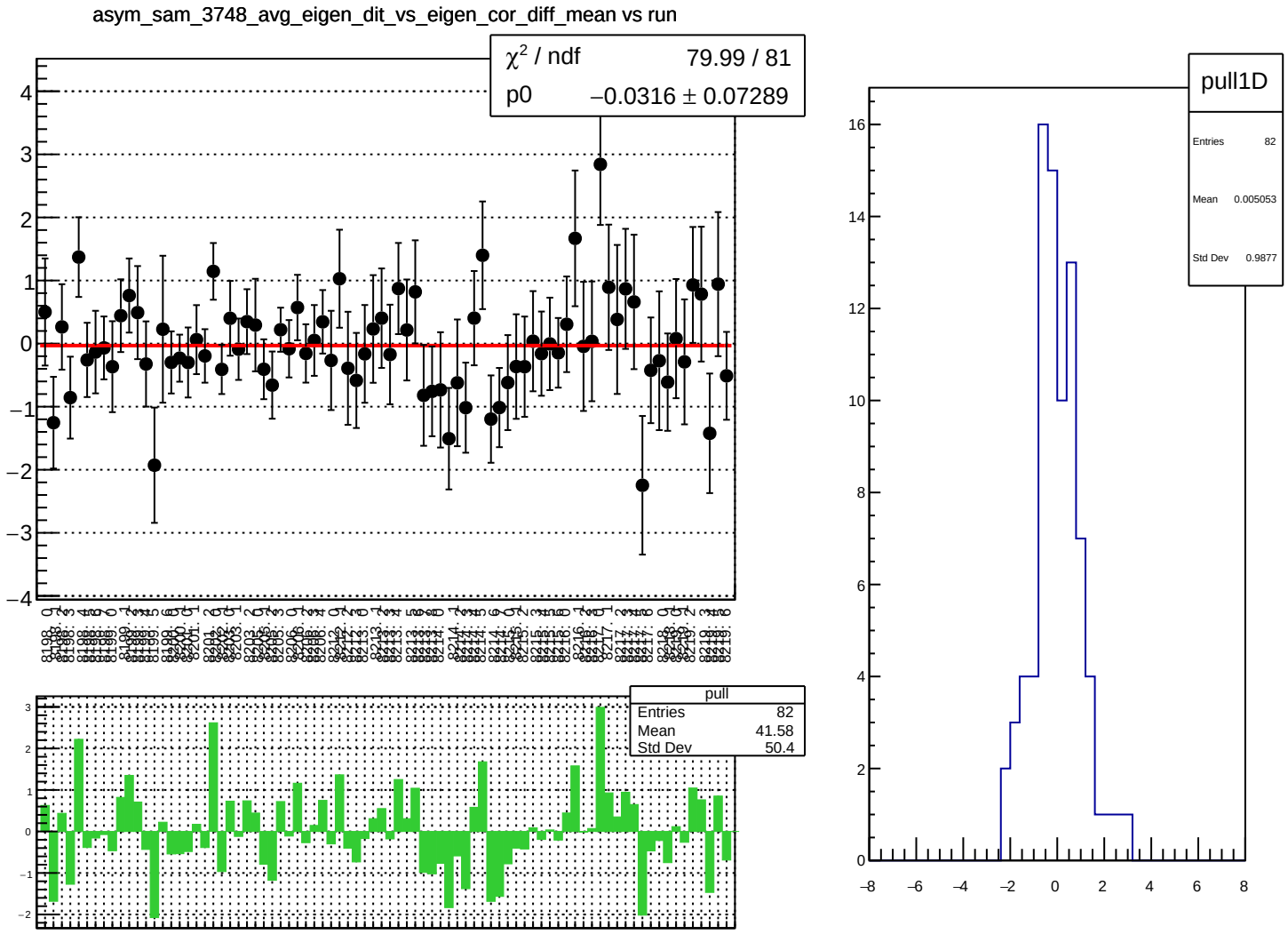

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.32 / 81
p0 2.966e−06 ± 1.455e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 82
Mean −252.3
Std Dev 0
2
1
0
−1
−2

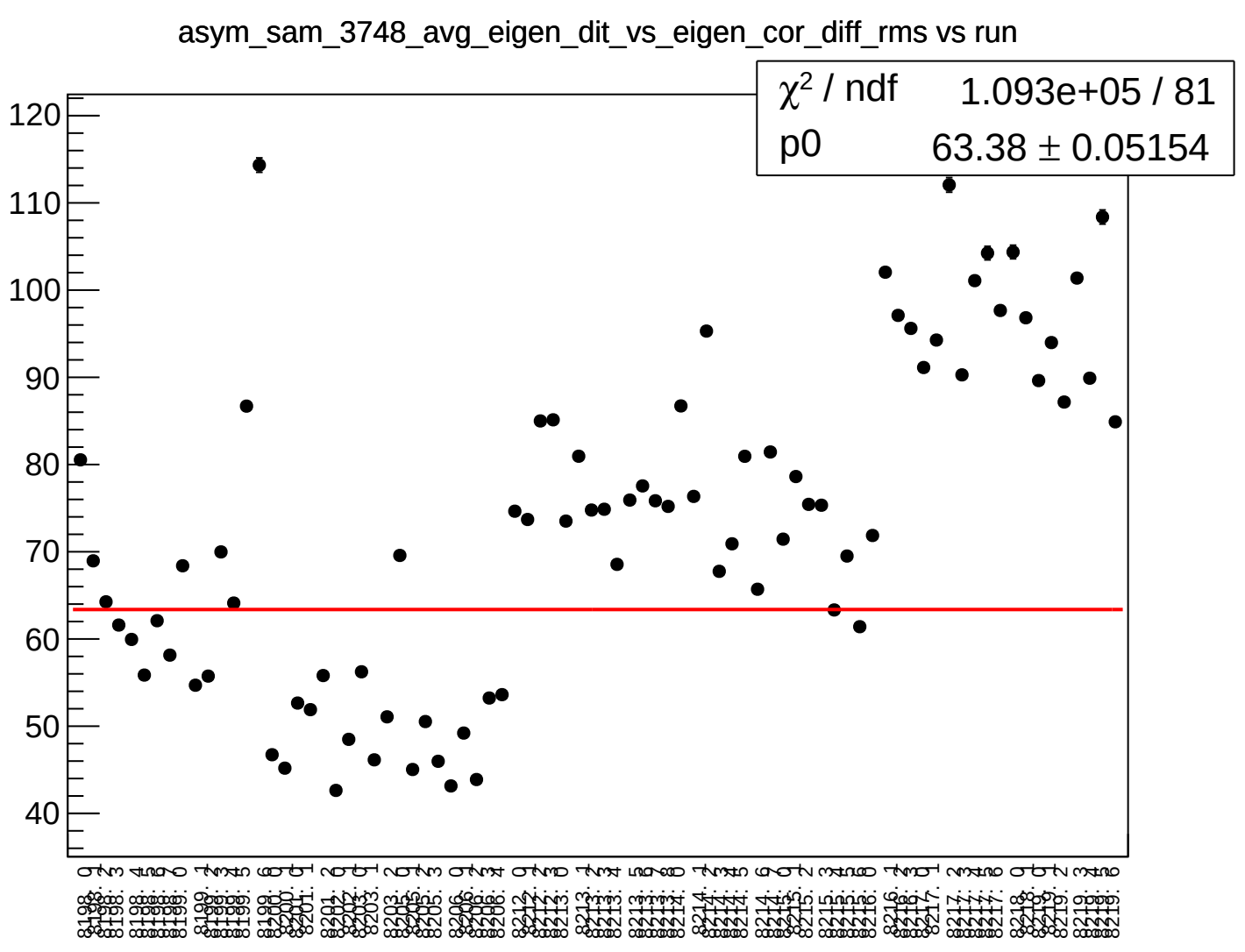

pull1D
Entries 82
Mean −0.01545
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

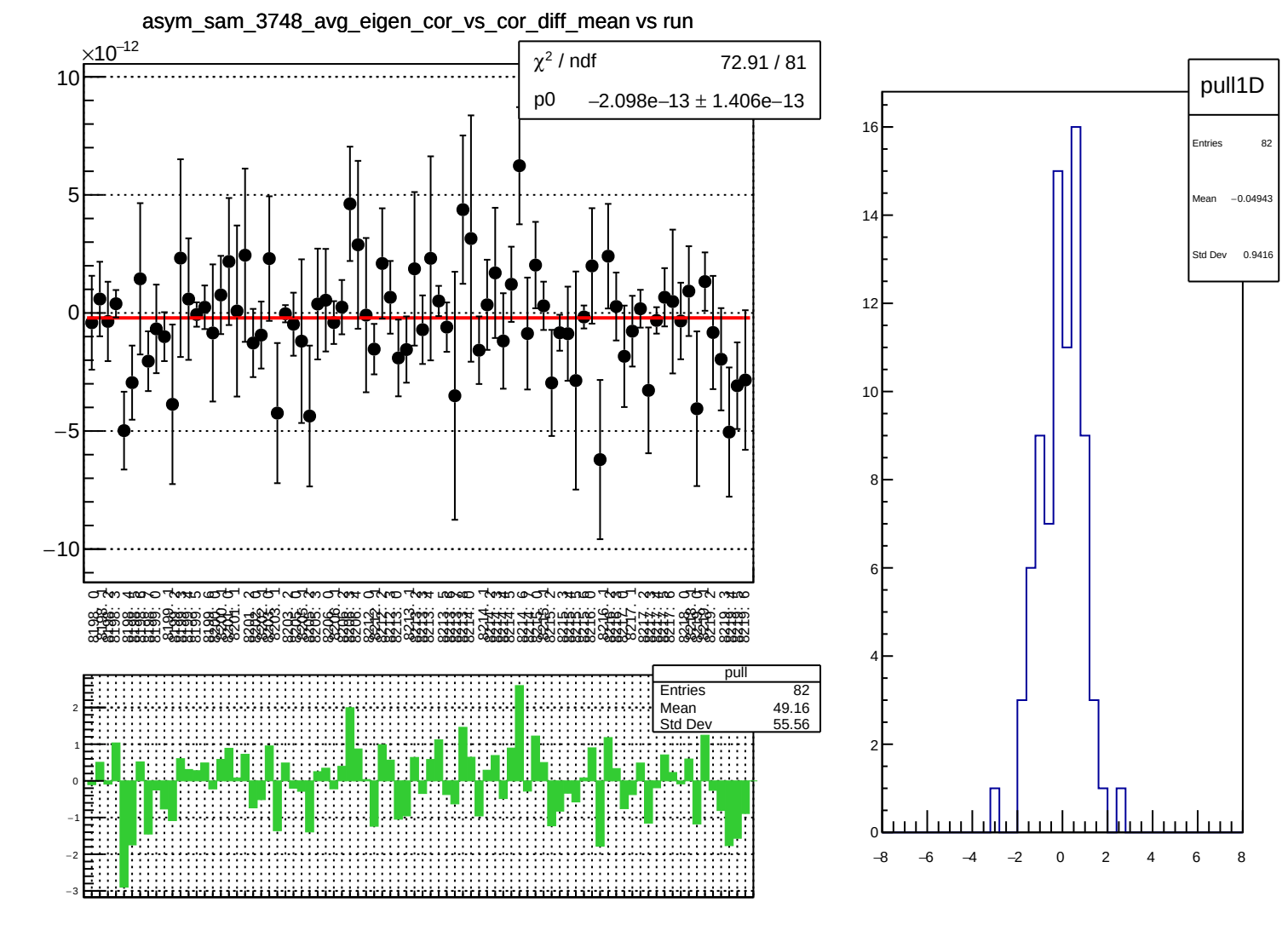

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.644e+04 / 81
p0 0.001275 ± 1.029e−06
0.002
0.0018
0.0016
0.0014
0.0012
0.001

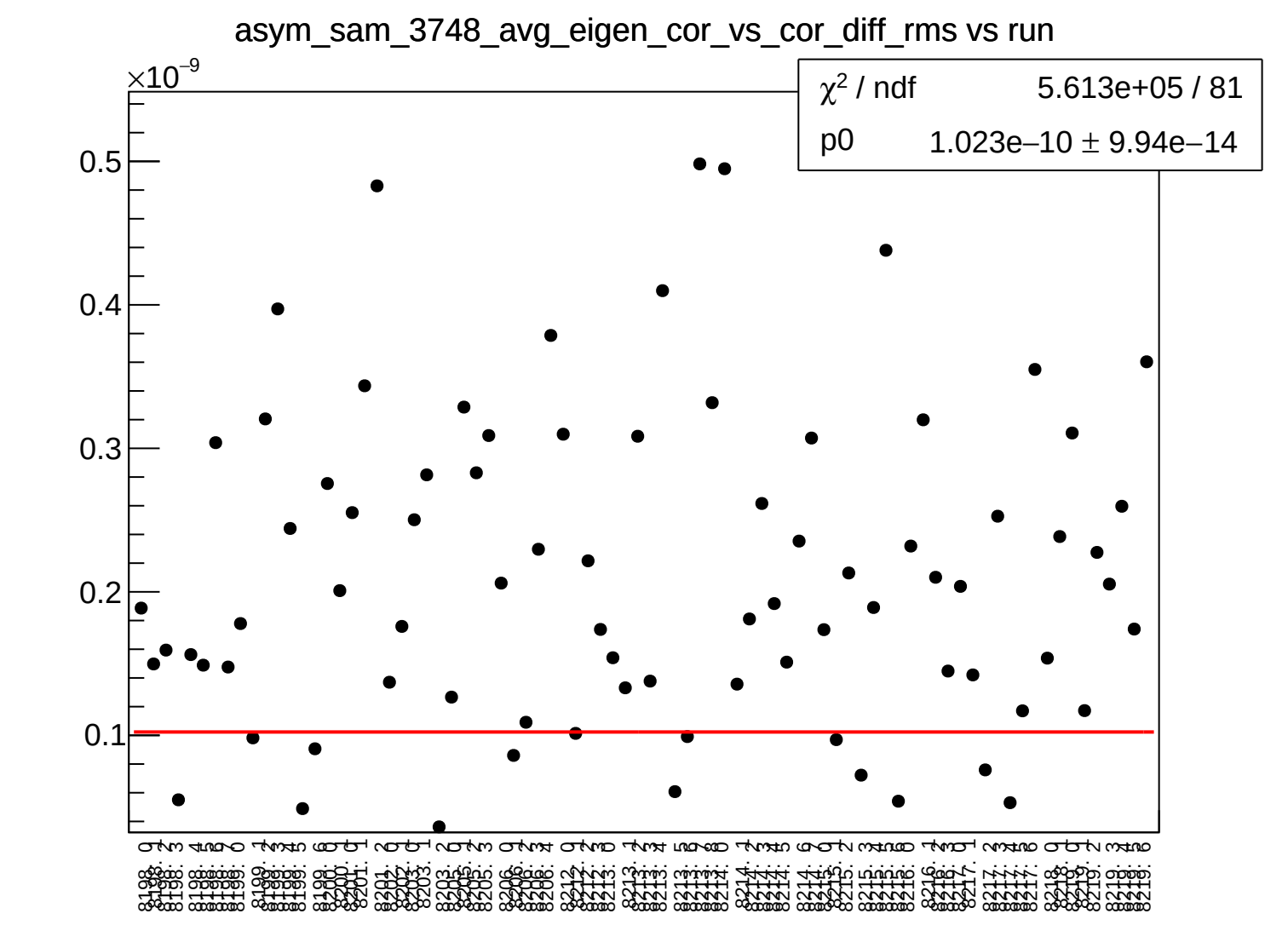

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.99 / 81
p0 −0.0316 ± 0.07289
pull
Entries 82
Mean 41.58
Std Dev 50.4
pull1D
Entries 82
Mean 0.005053
Std Dev 0.9877

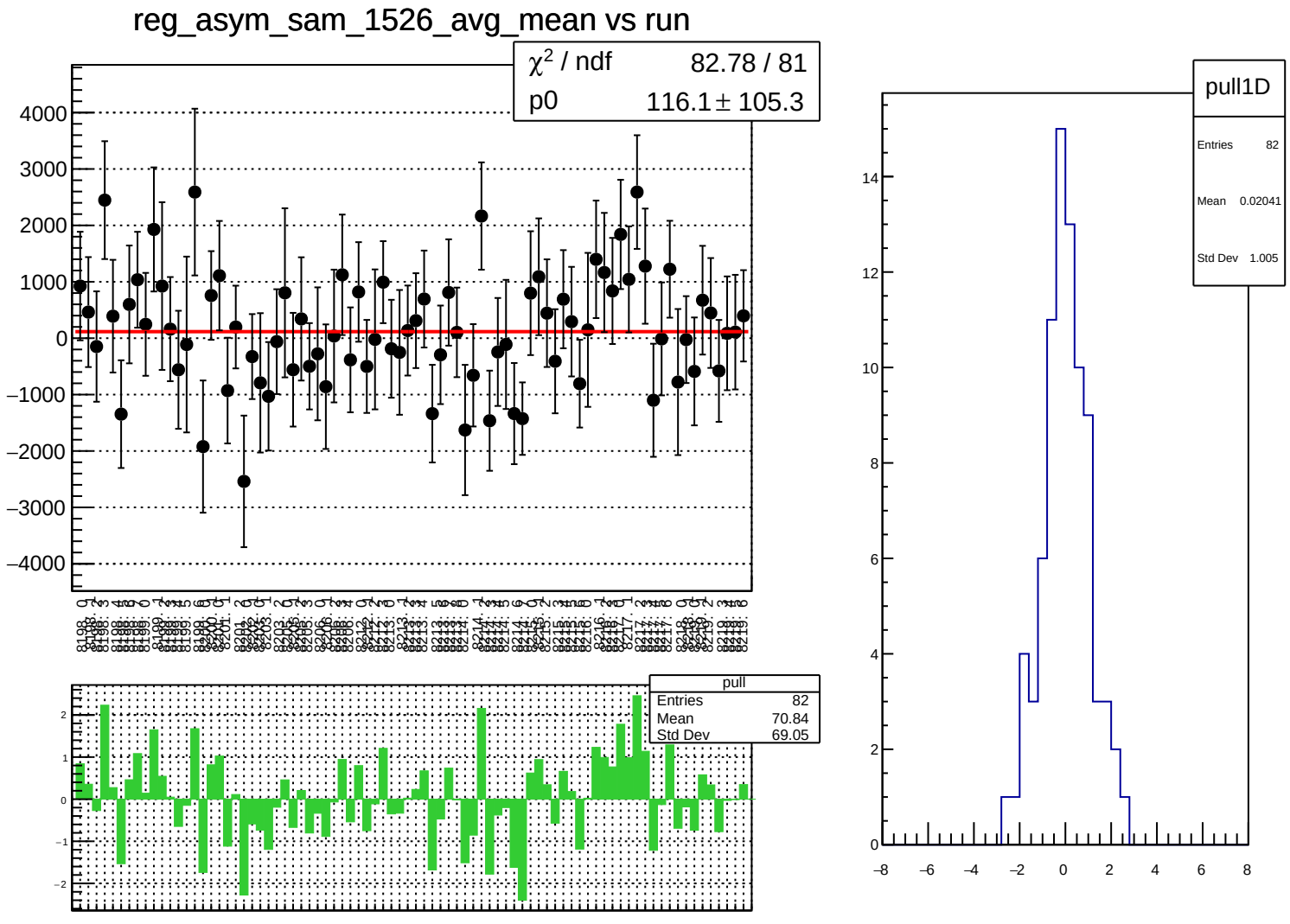

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 81
p0 63.38 ± 0.05154
120
110
100
90
80
70
60
50
40

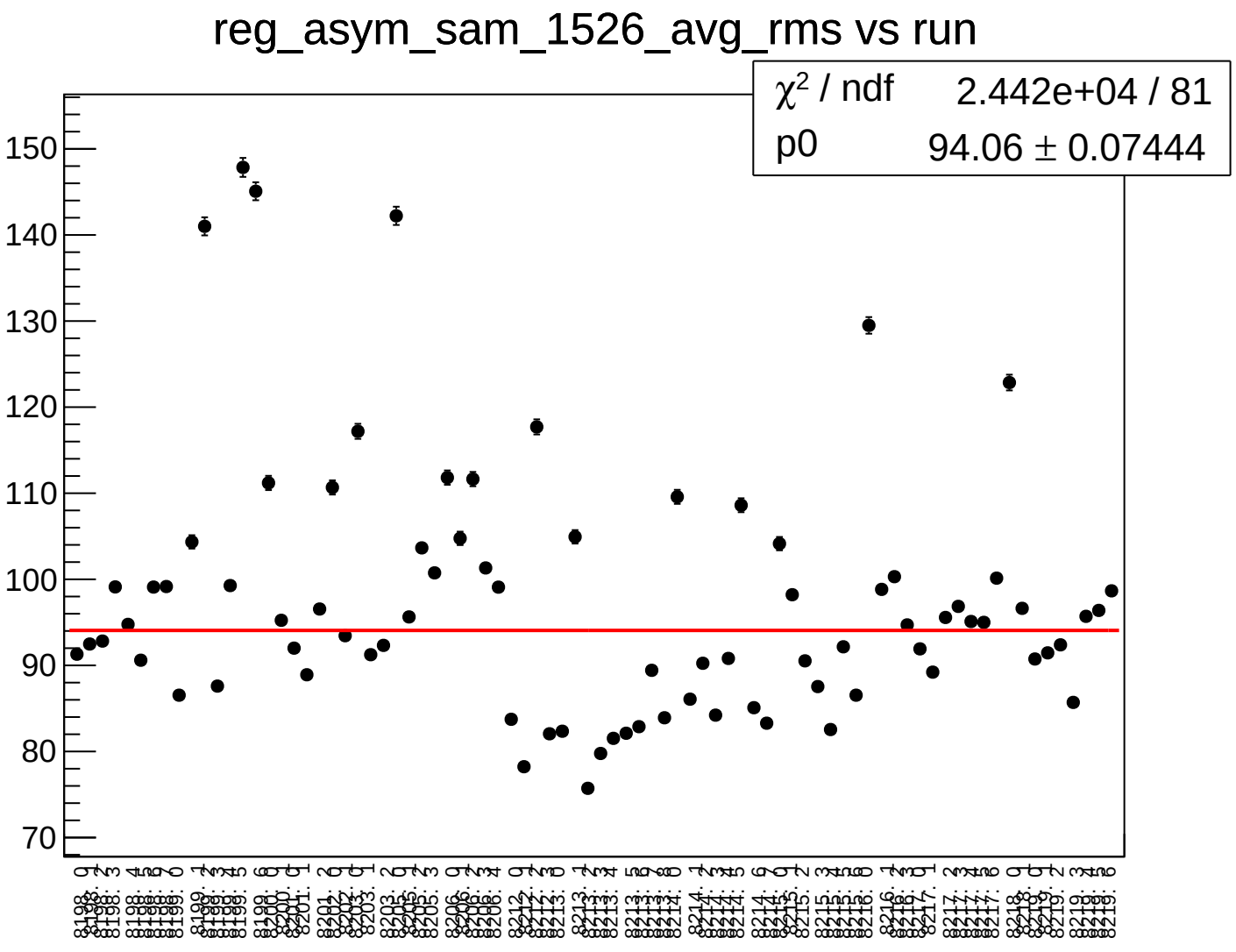

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.99 / 81
p0 −0.0316 ± 0.07289
pull
Entries 82
Mean 41.58
Std Dev 50.4
pull1D
Entries 82
Mean 0.005053
Std Dev 0.9877

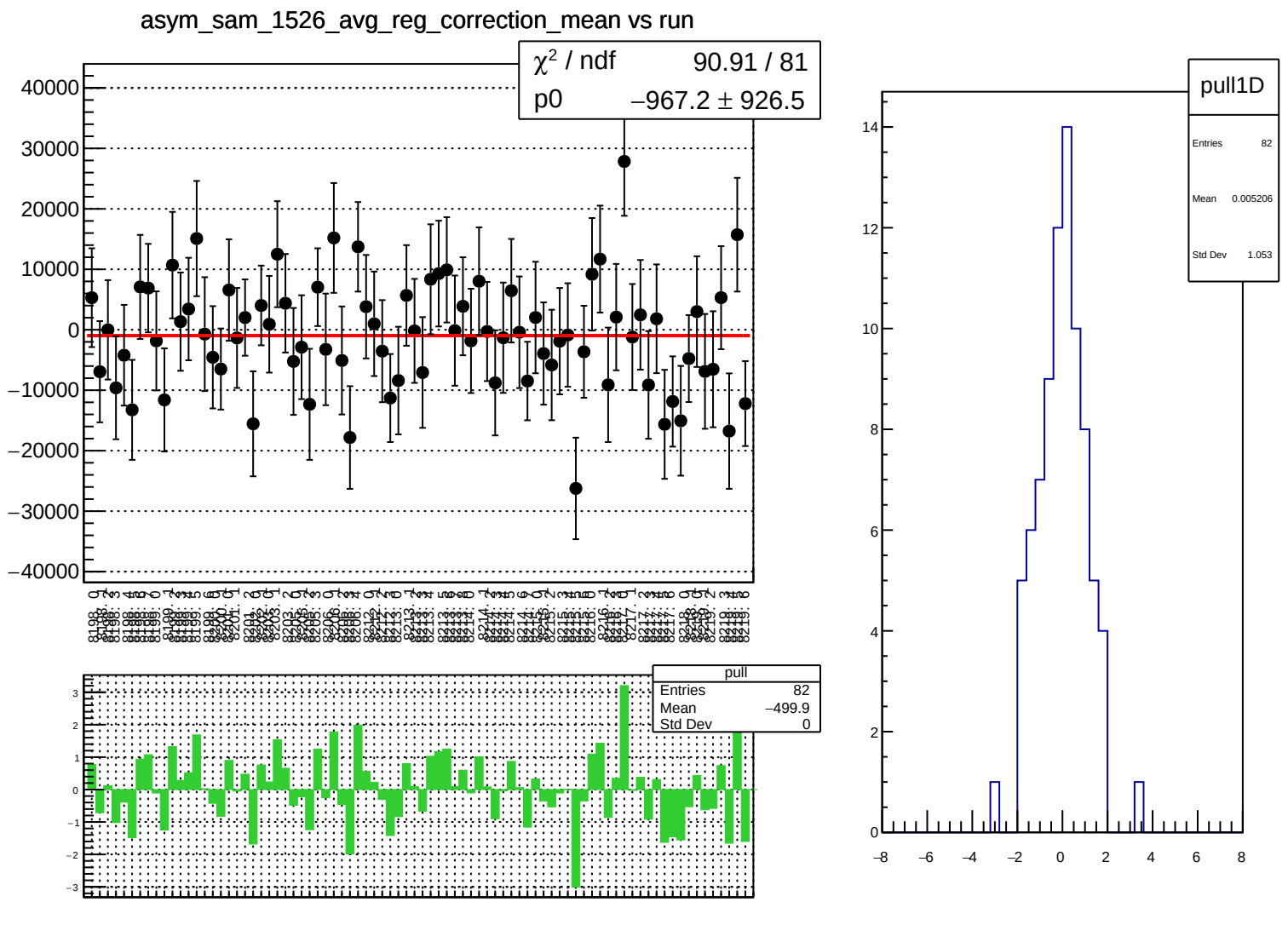

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 81
p0 63.38 ± 0.05154
120
110
100
90
80
70
60
50
40

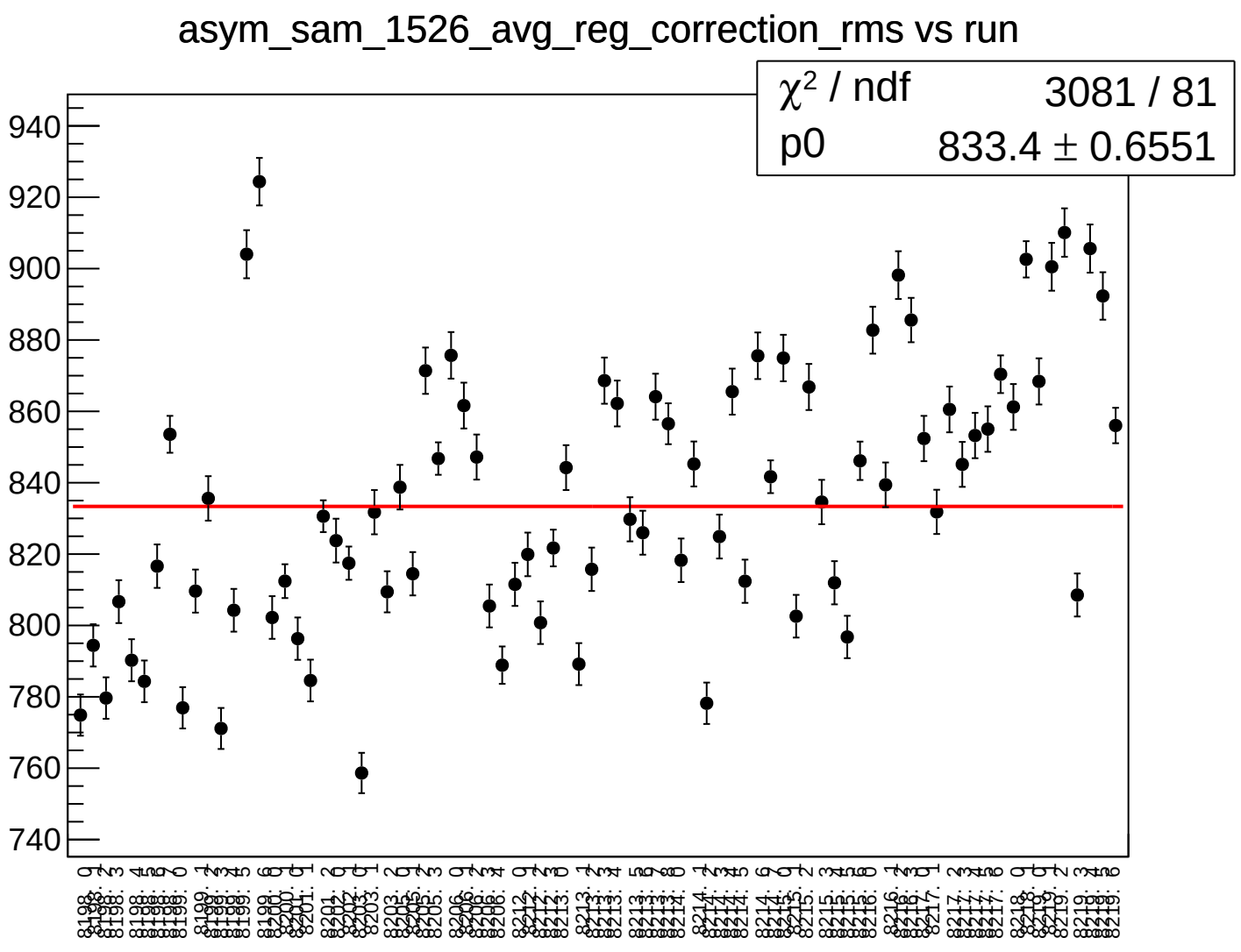

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.91 / 81
p0 −2.098e−13 ± 1.406e−13
pull
Entries 82
Mean 49.16
Std Dev 55.56
pull1D
Entries 82
Mean −0.04943
Std Dev 0.9416

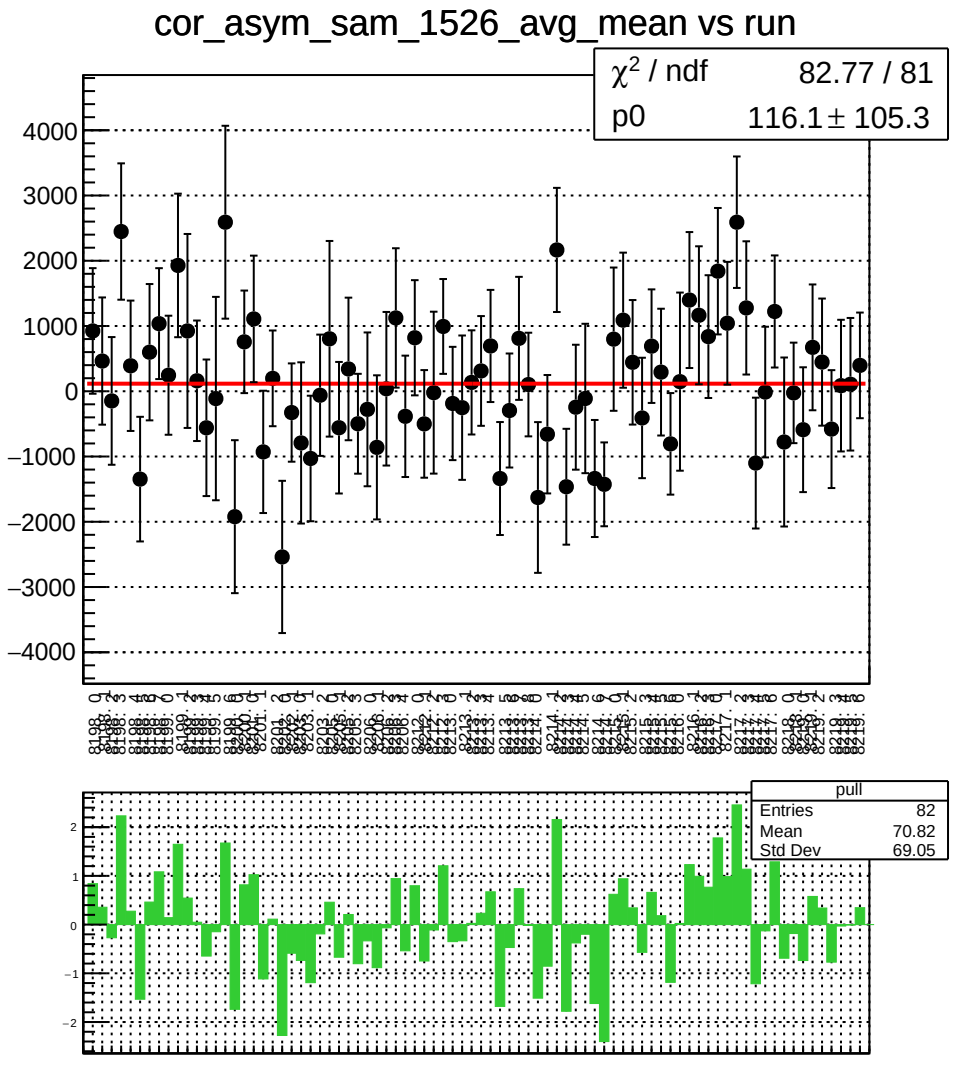

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.613e+05 / 81
p0 1.023e−10 ± 9.94e−14
0.5
0.4
0.3
0.2
0.1

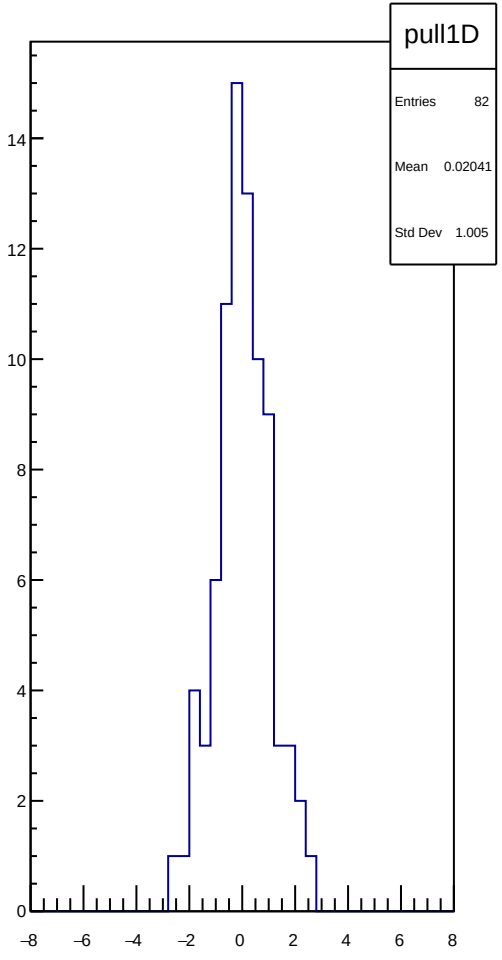

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 82.78 / 81
p0 116.1 ± 105.3
pull
Entries 82
Mean 70.84
Std Dev 69.05
pull1D
Entries 82
Mean 0.02041
Std Dev 1.005

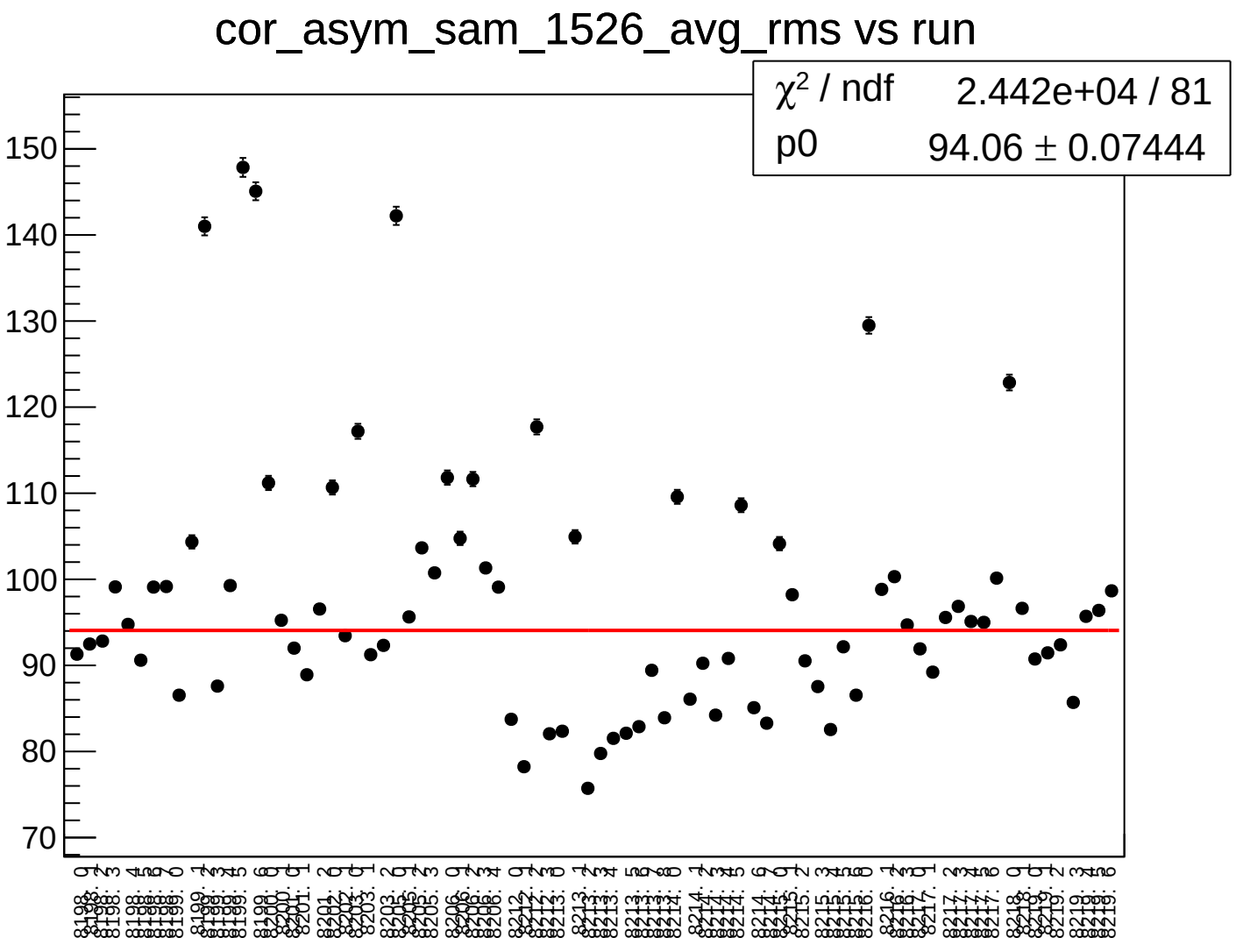

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 2.442e+04 / 81
p0 94.06 ± 0.07444
150
140
130
120
110
100
90
80
70

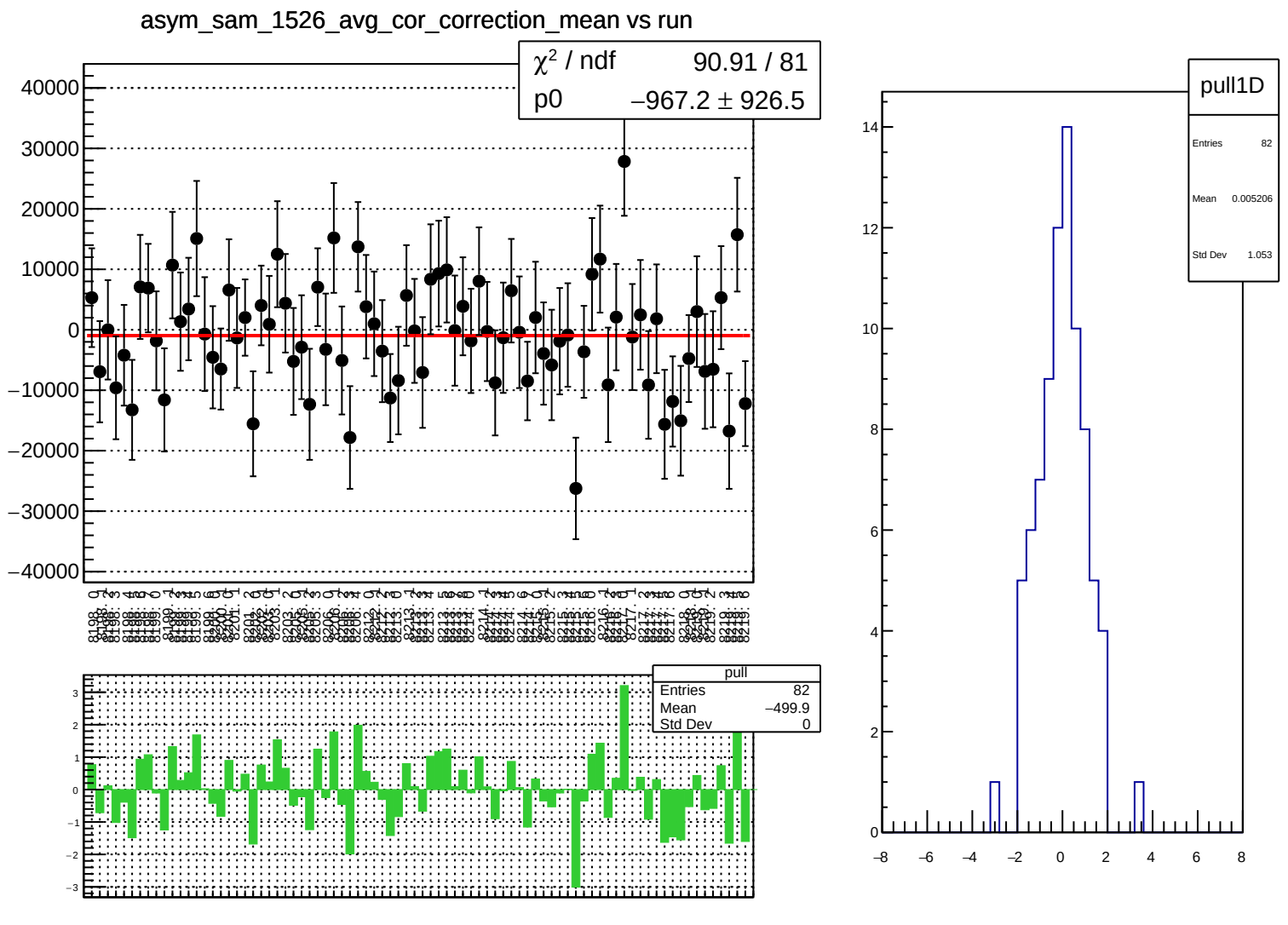

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 90.91 / 81
p0 −967.2 ± 926.5
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −499.9
Std Dev 0
pull1D
Entries 82
Mean 0.005206
Std Dev 1.053

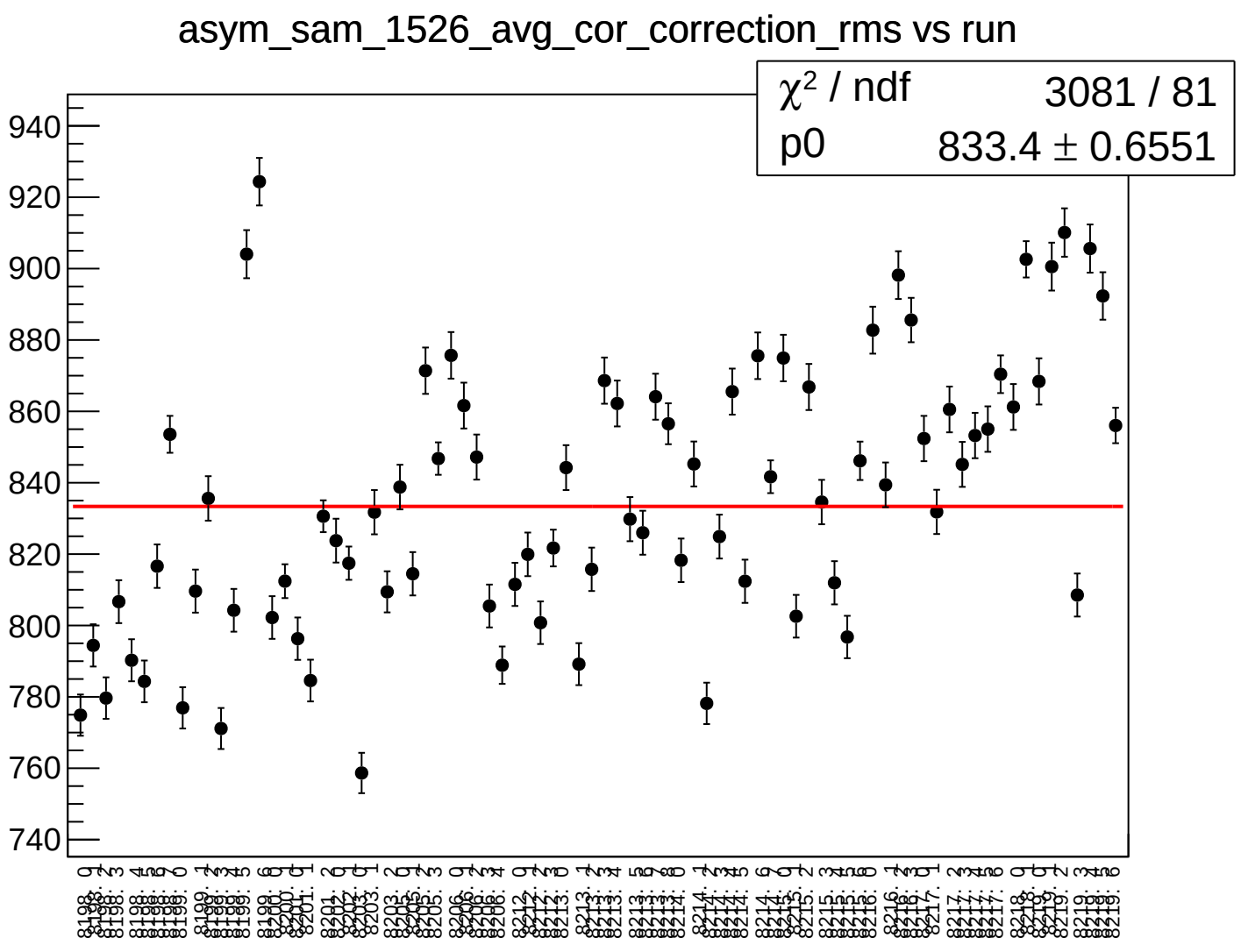

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 3081 / 81
p0 833.4 ± 0.6551
940
920
900
880
860
840
820
800
780
760
740

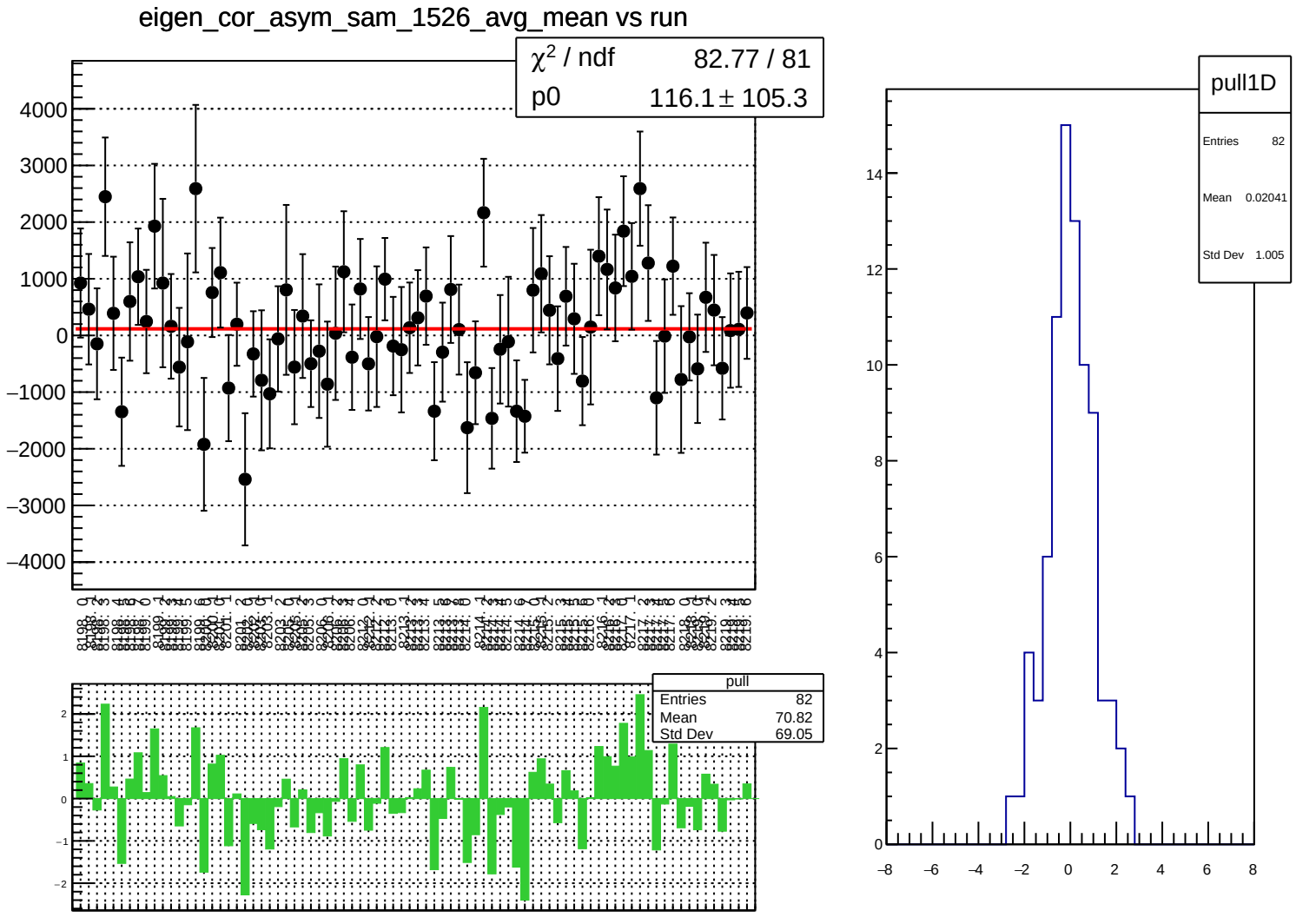

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 82.77 / 81
p0 116.1 ± 105.3
pull
Entries 82
Mean 70.82
Std Dev 69.05

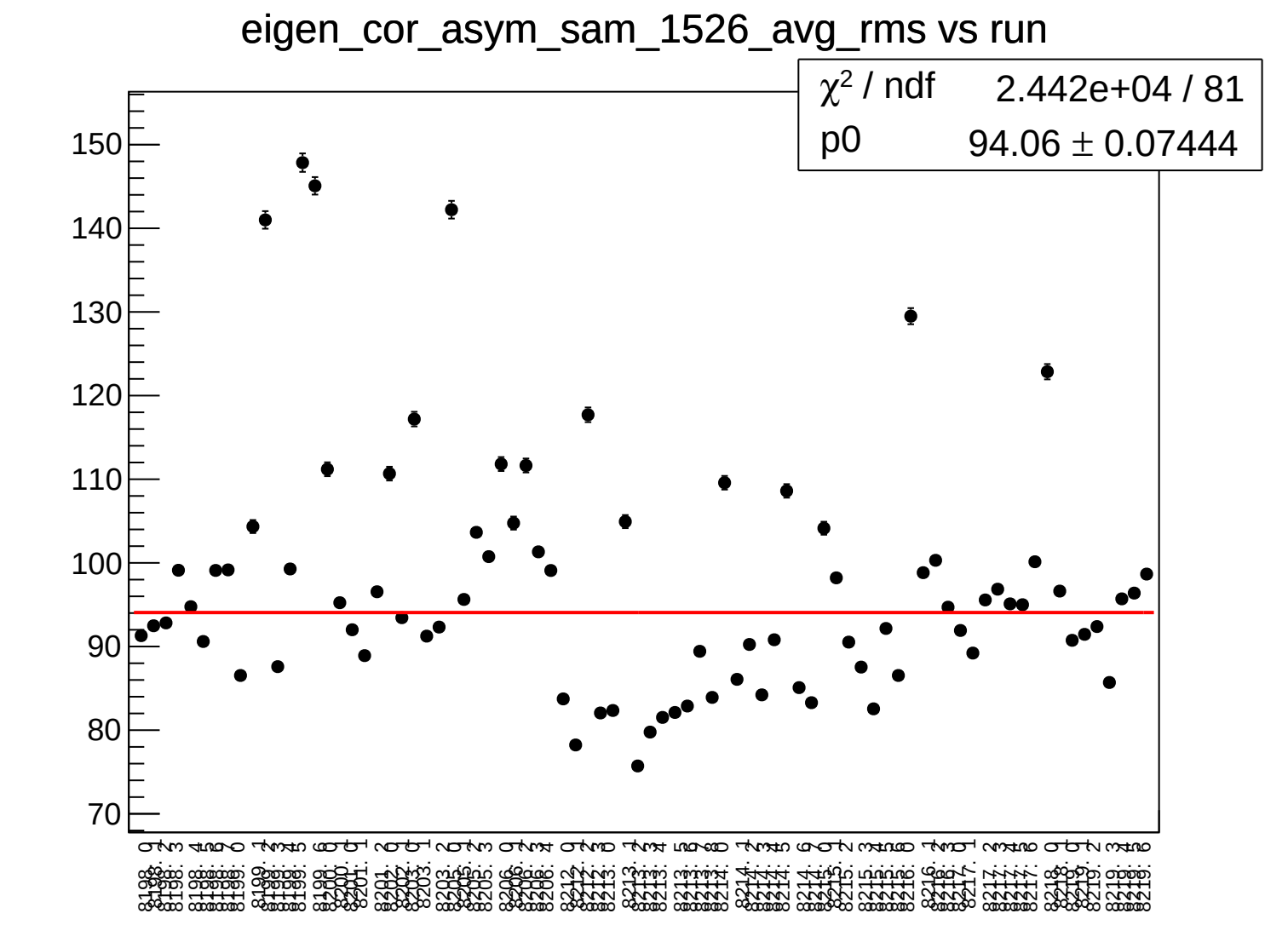

pull1D
Entries 82
Mean 0.02041
Std Dev 1.005

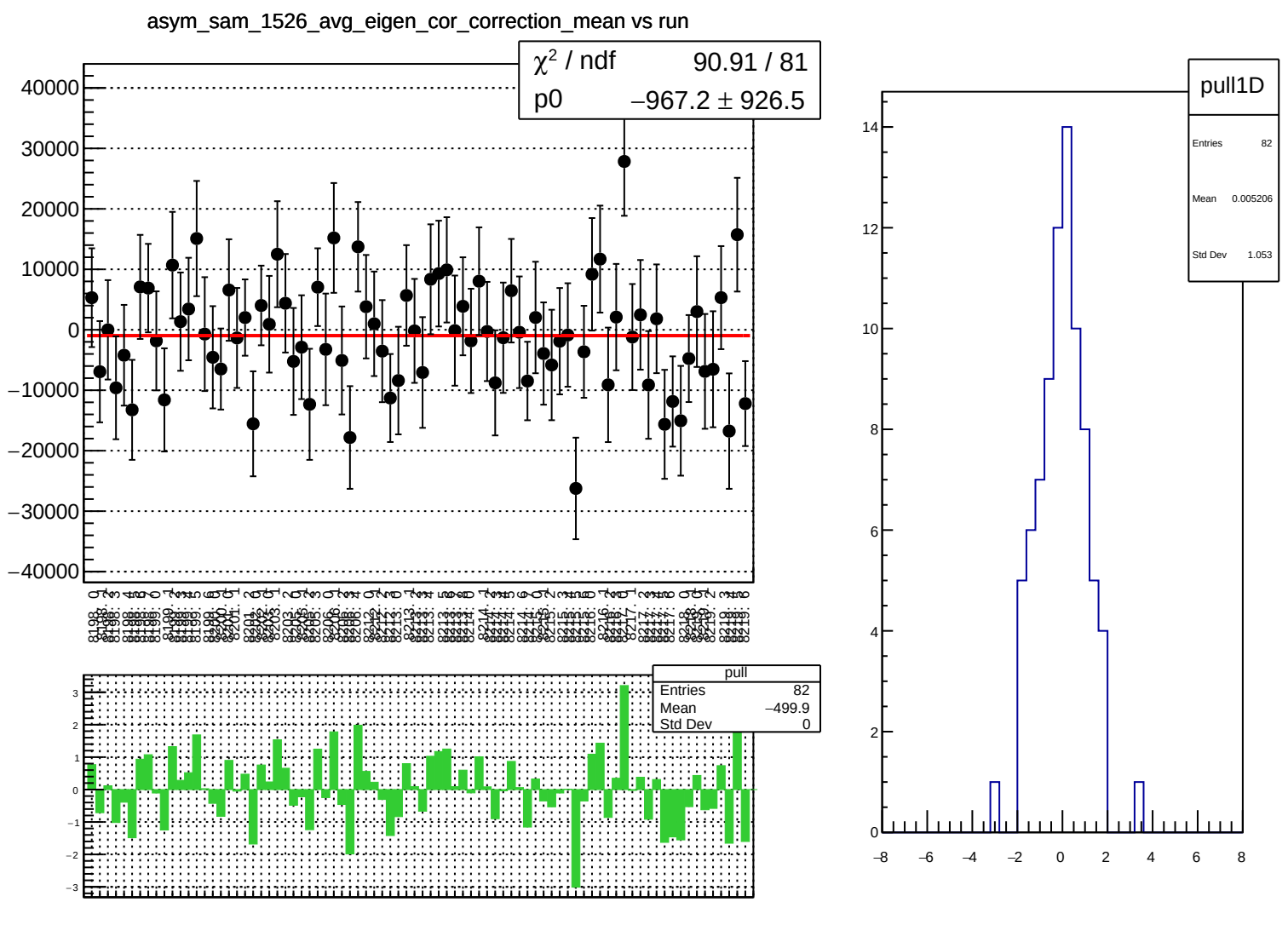

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 2.442e+04 / 81
p0 94.06 ± 0.07444
150
140
130
120
110
100
90
80
70

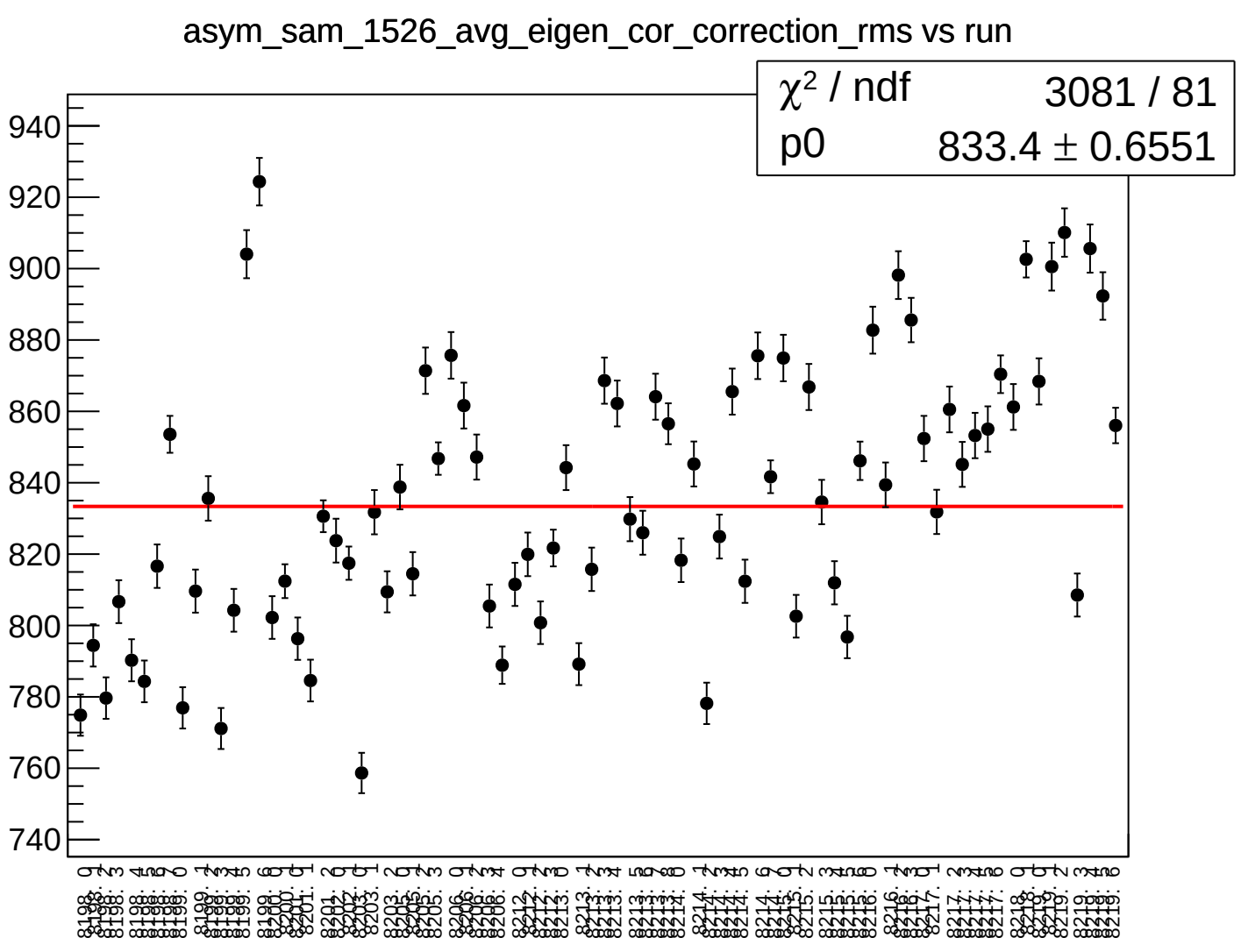

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 90.91 / 81
p0 −967.2 ± 926.5
pull
Entries 82
Mean −499.9
Std Dev 0
pull1D
Entries 82
Mean 0.005206
Std Dev 1.053

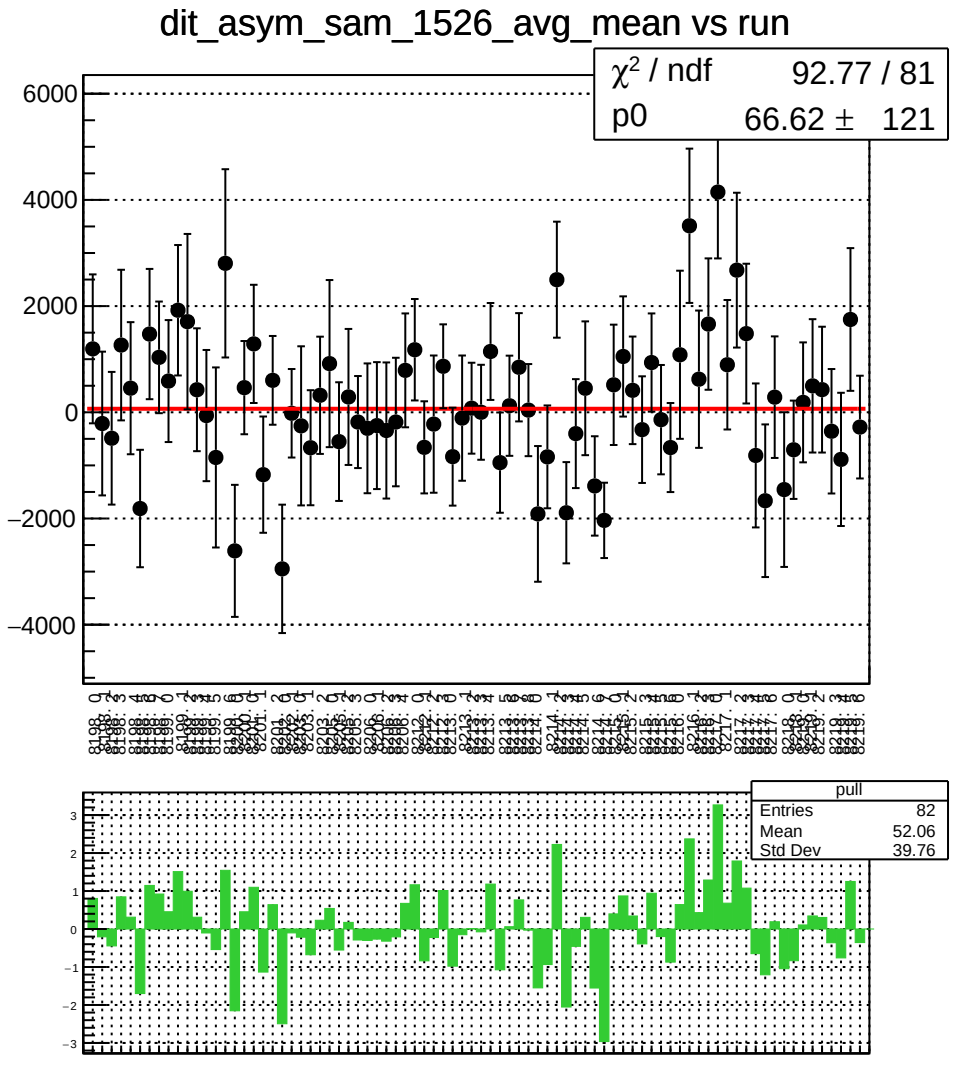

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 3081 / 81
p0 833.4 ± 0.6551
940
920
900
880
860
840
820
800
780
760
740

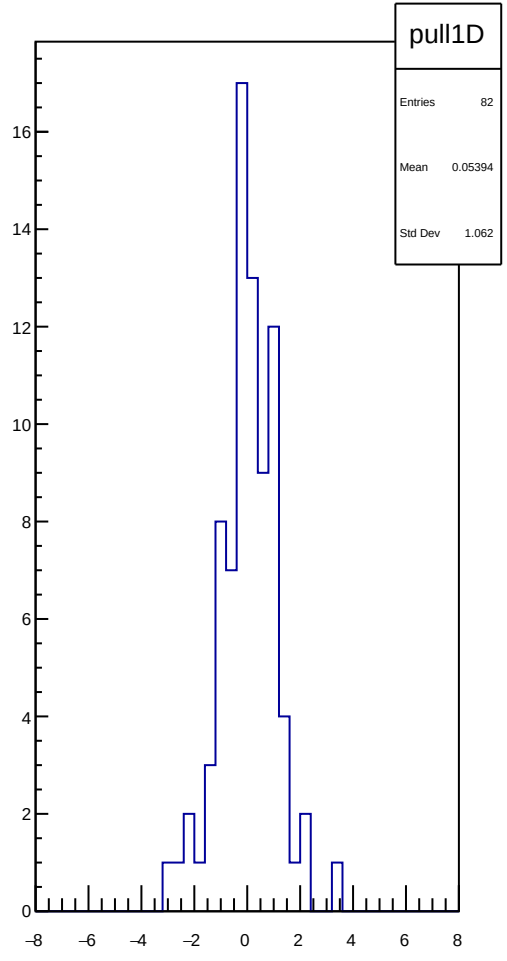

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 82.77 / 81
p0 116.1 ± 105.3
pull
Entries 82
Mean 70.82
Std Dev 69.05
pull1D
Entries 82
Mean 0.02041
Std Dev 1.005

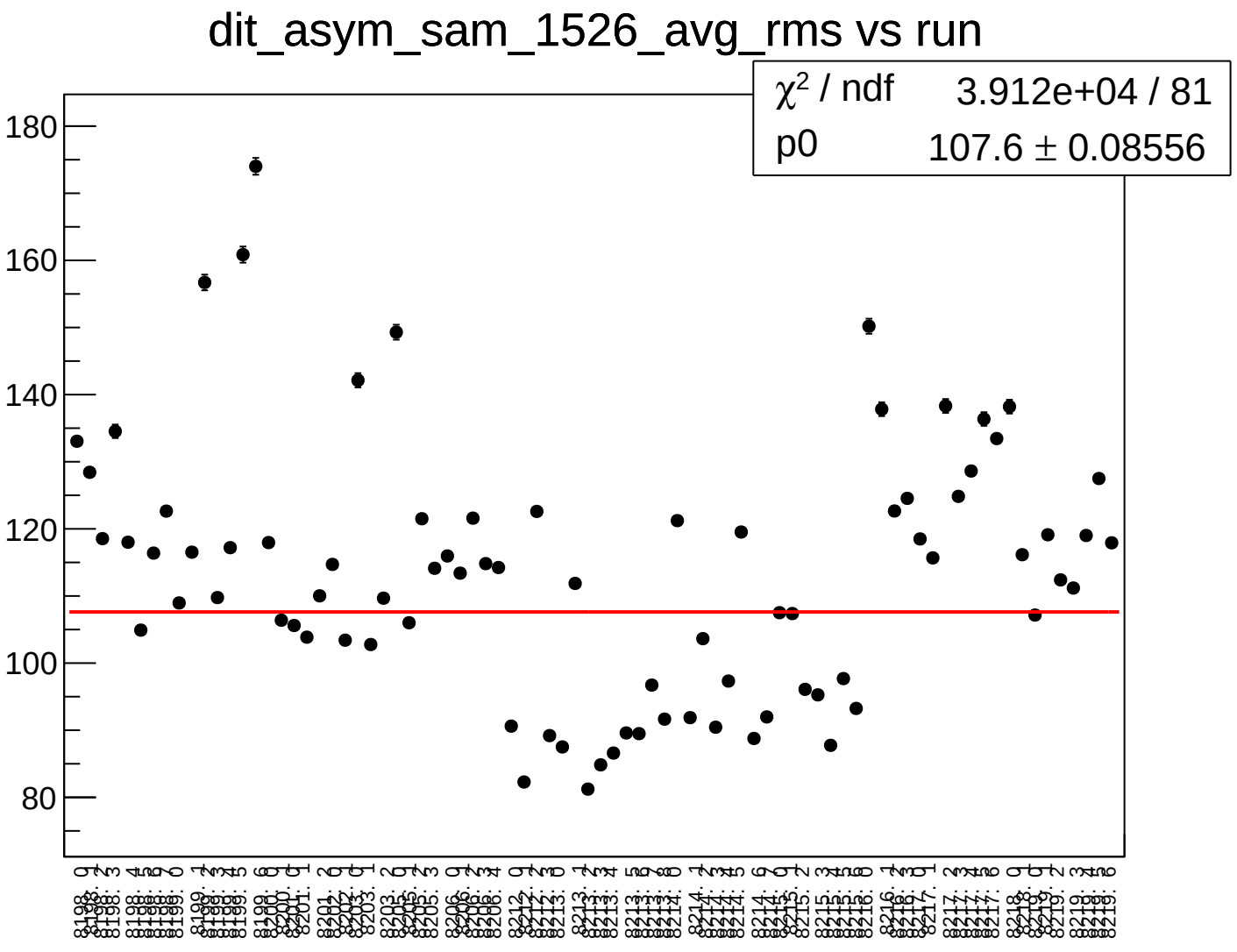

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 2.442e+04 / 81
p0 94.06 ± 0.07444
150
140
130
120
110
100
90
80
70

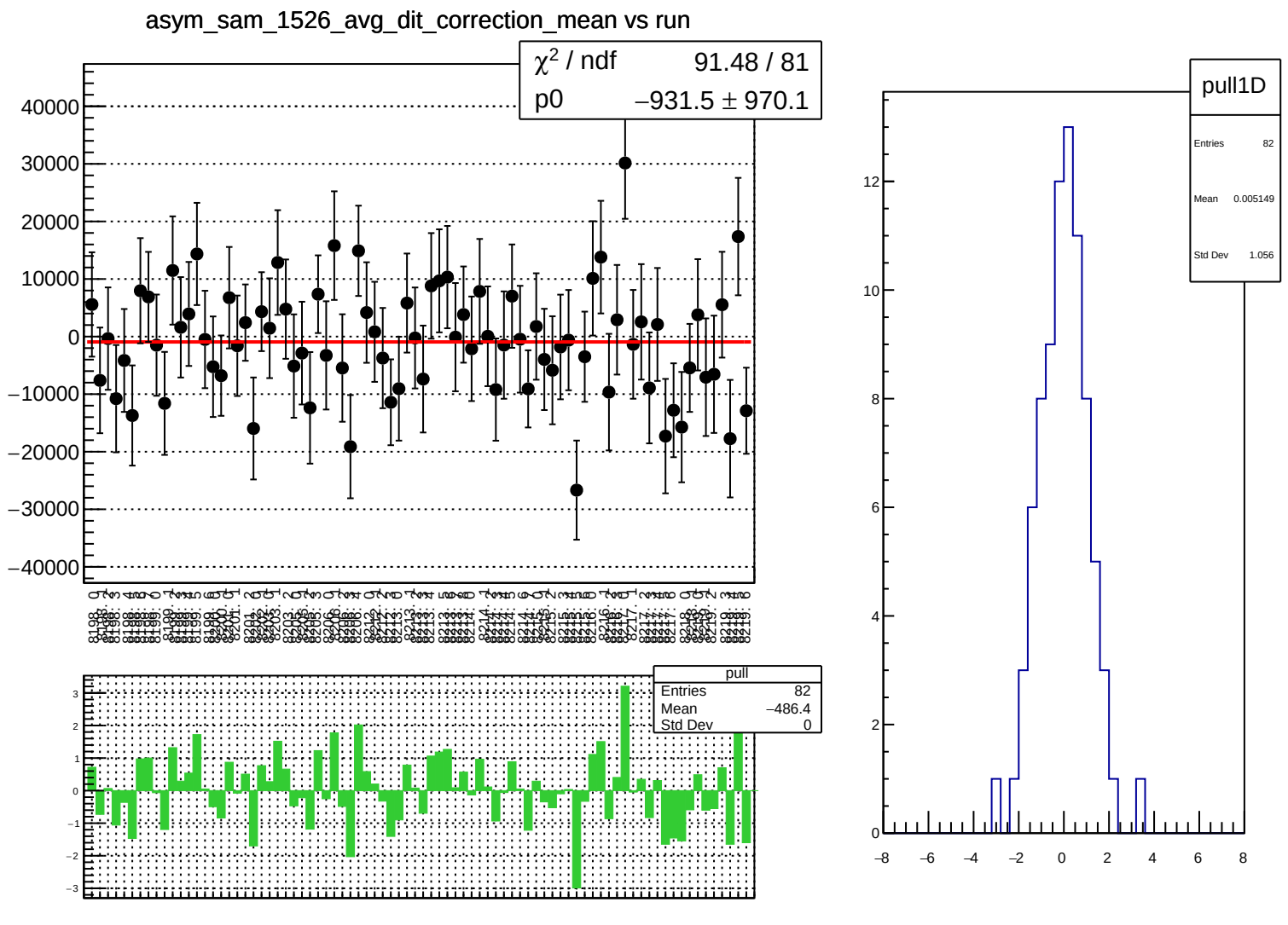

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.91 / 81
p0 −967.2 ± 926.5
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −499.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.005206
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

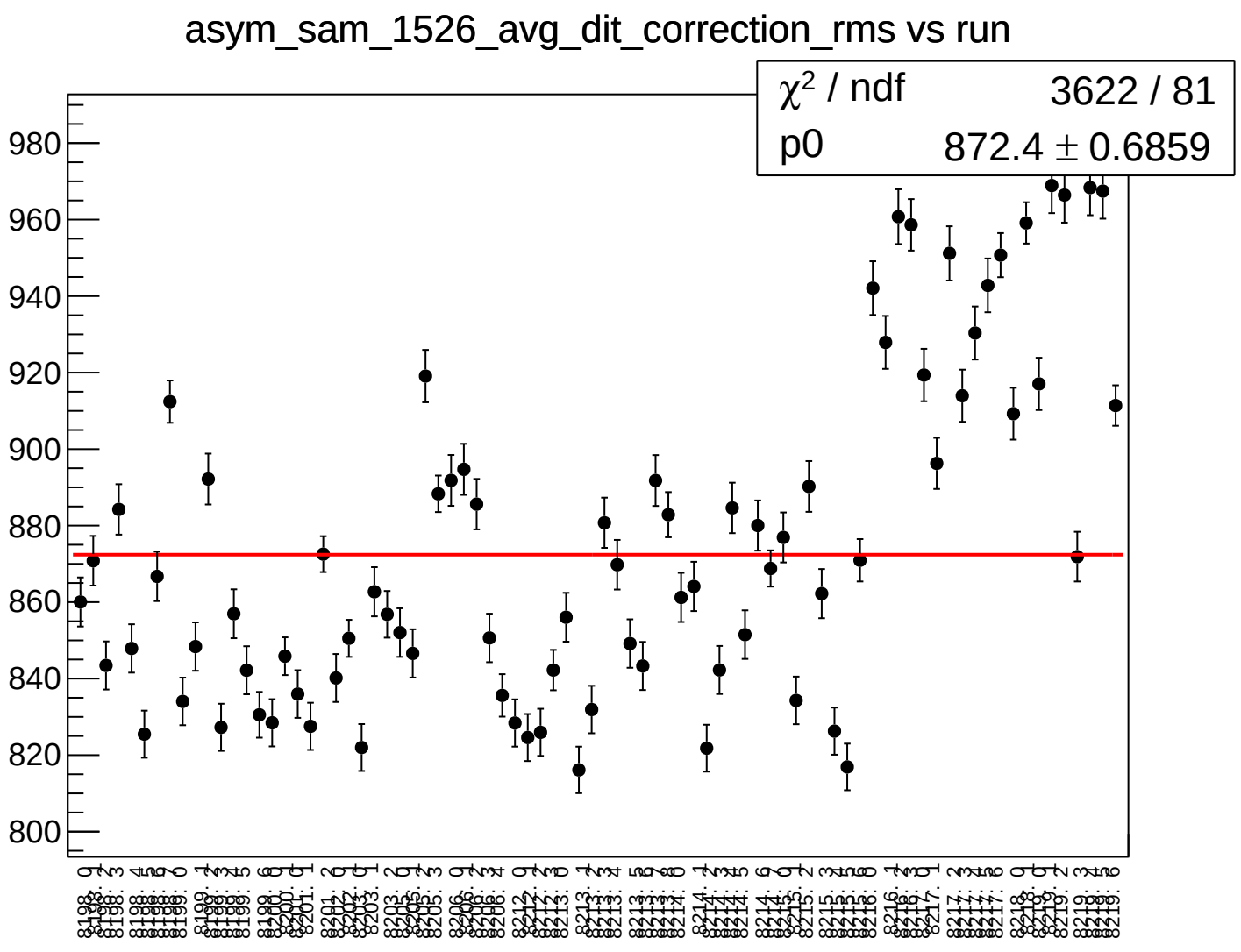

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 3081 / 81
p0 833.4 ± 0.6551
940
920
900
880
860
840
820
800
780
760
740

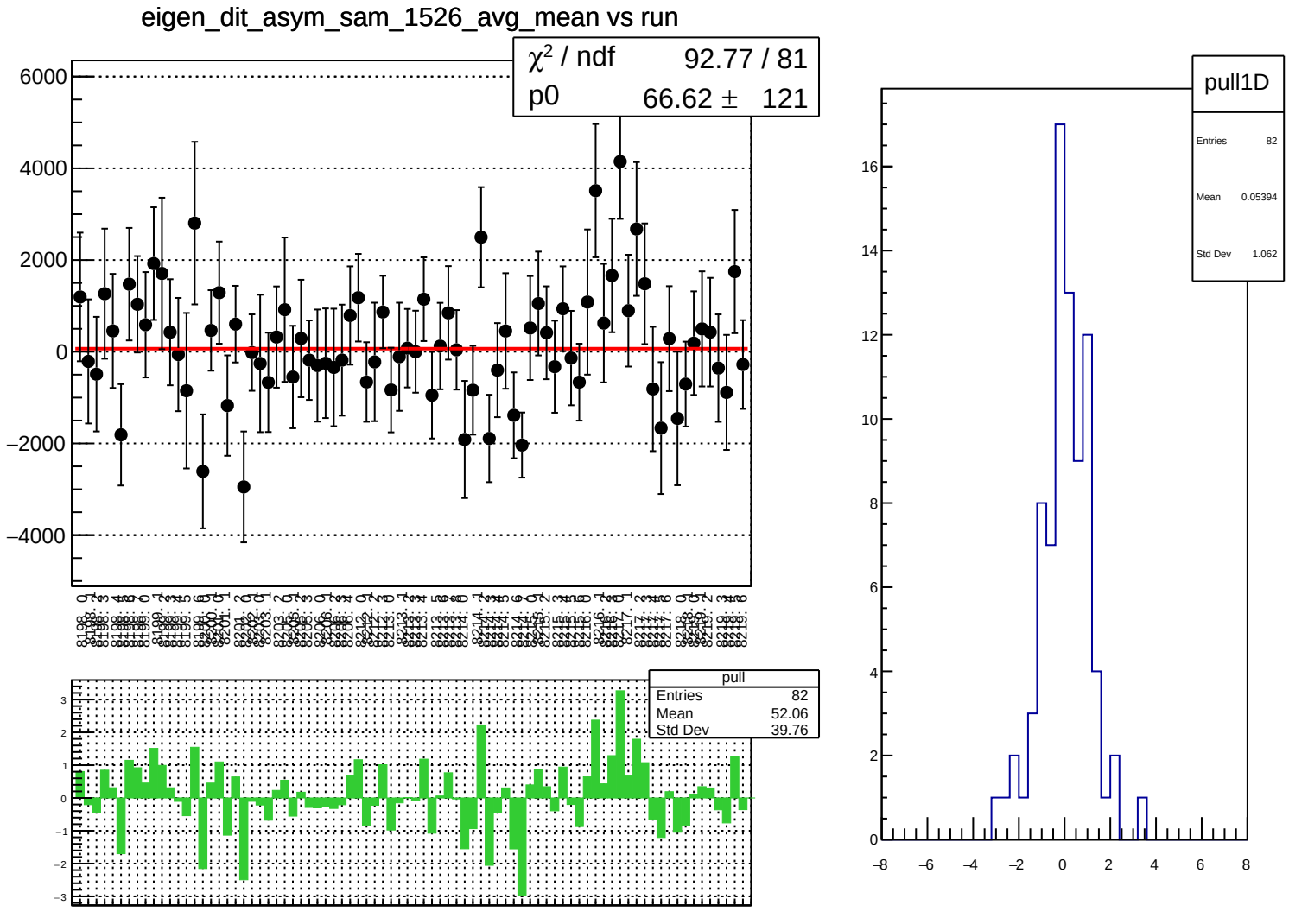

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 92.77 / 81
p0 66.62 ± 121
pull
Entries 82
Mean 52.06
Std Dev 39.76

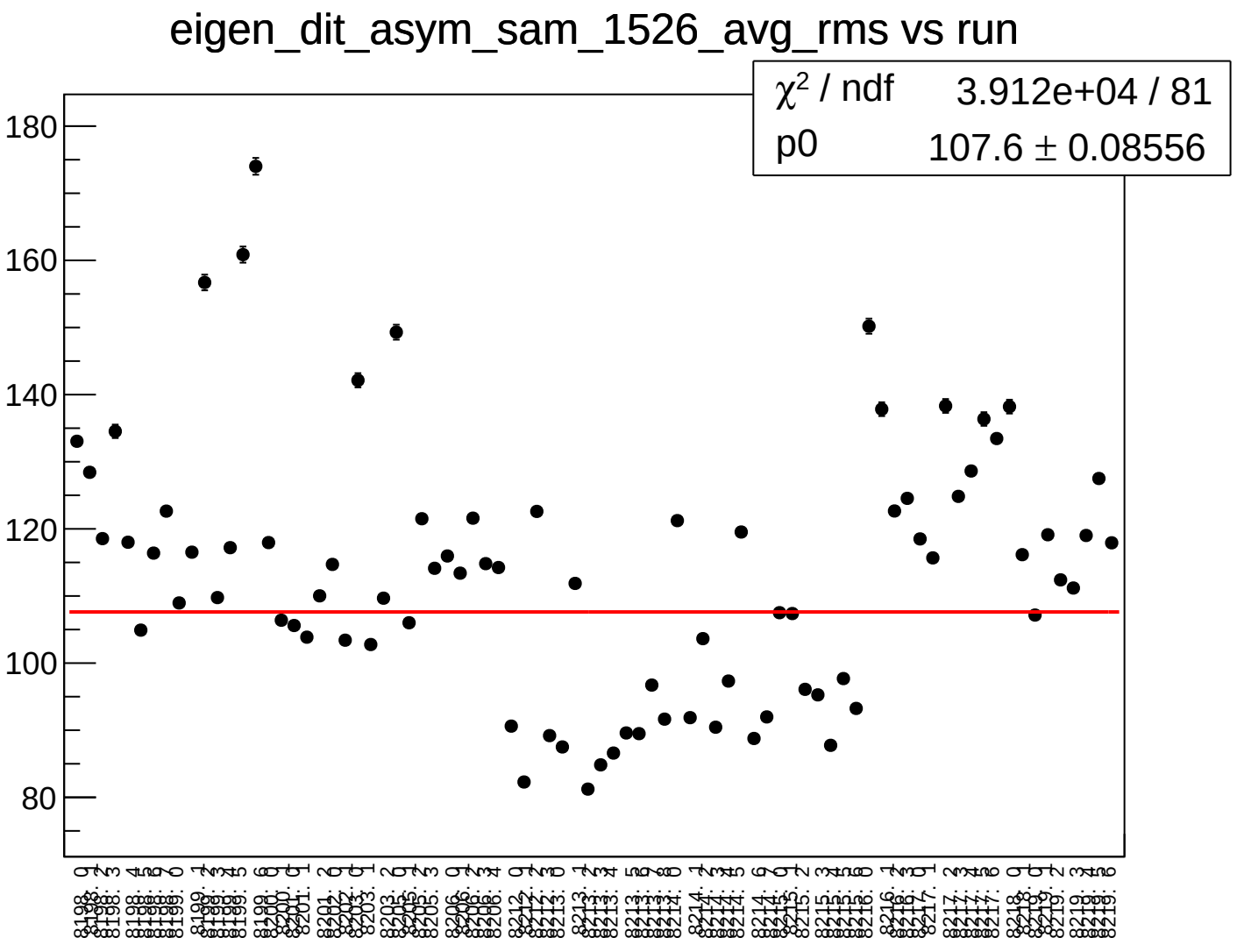

pull1D
Entries 82
Mean 0.05394
Std Dev 1.062

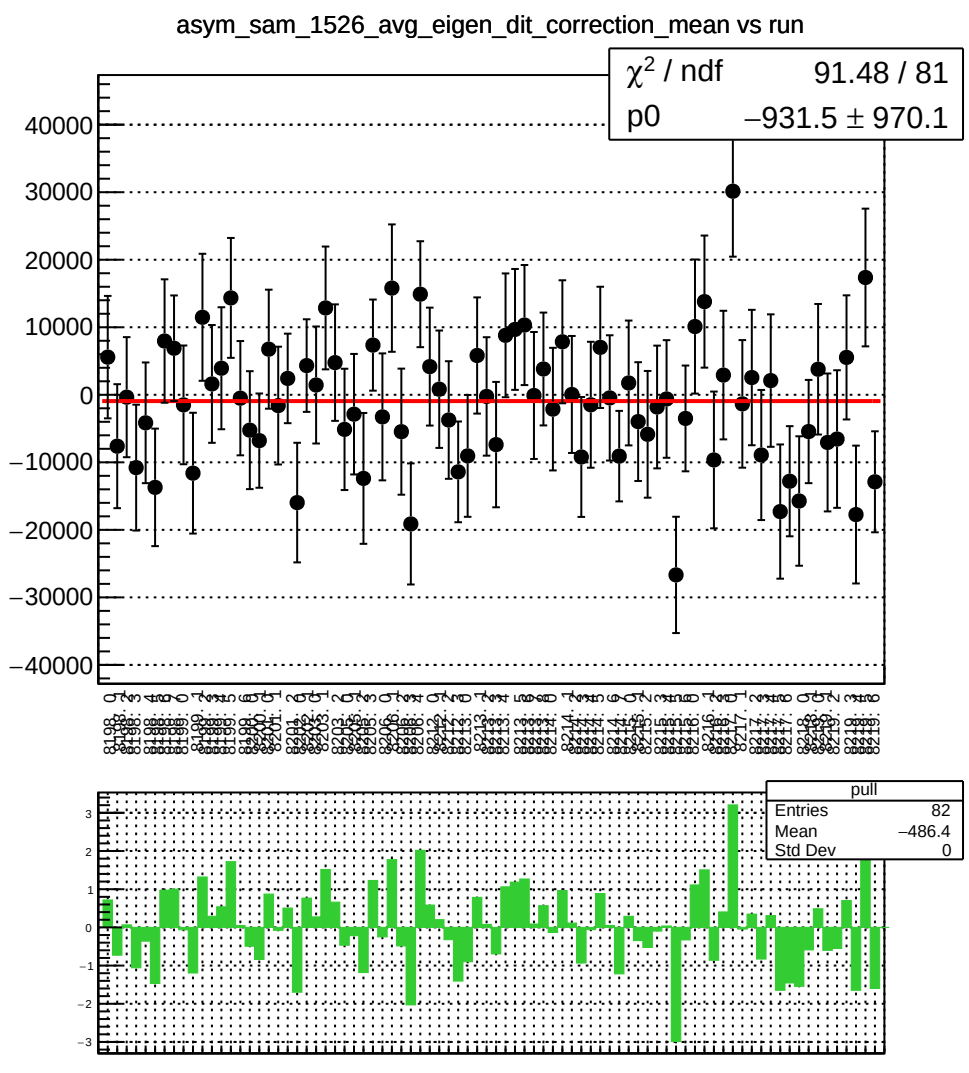

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.912e+04 / 81
p0 107.6 ± 0.08556
180
160
140
120
100
80

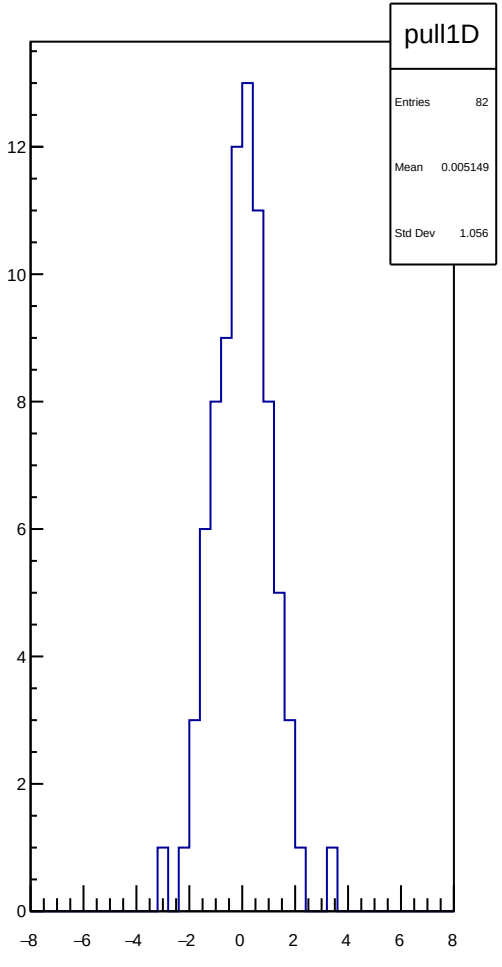

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 91.48 / 81
p0 −931.5 ± 970.1
pull
Entries 82
Mean −486.4
Std Dev 0
pull1D
Entries 82
Mean 0.005149
Std Dev 1.056

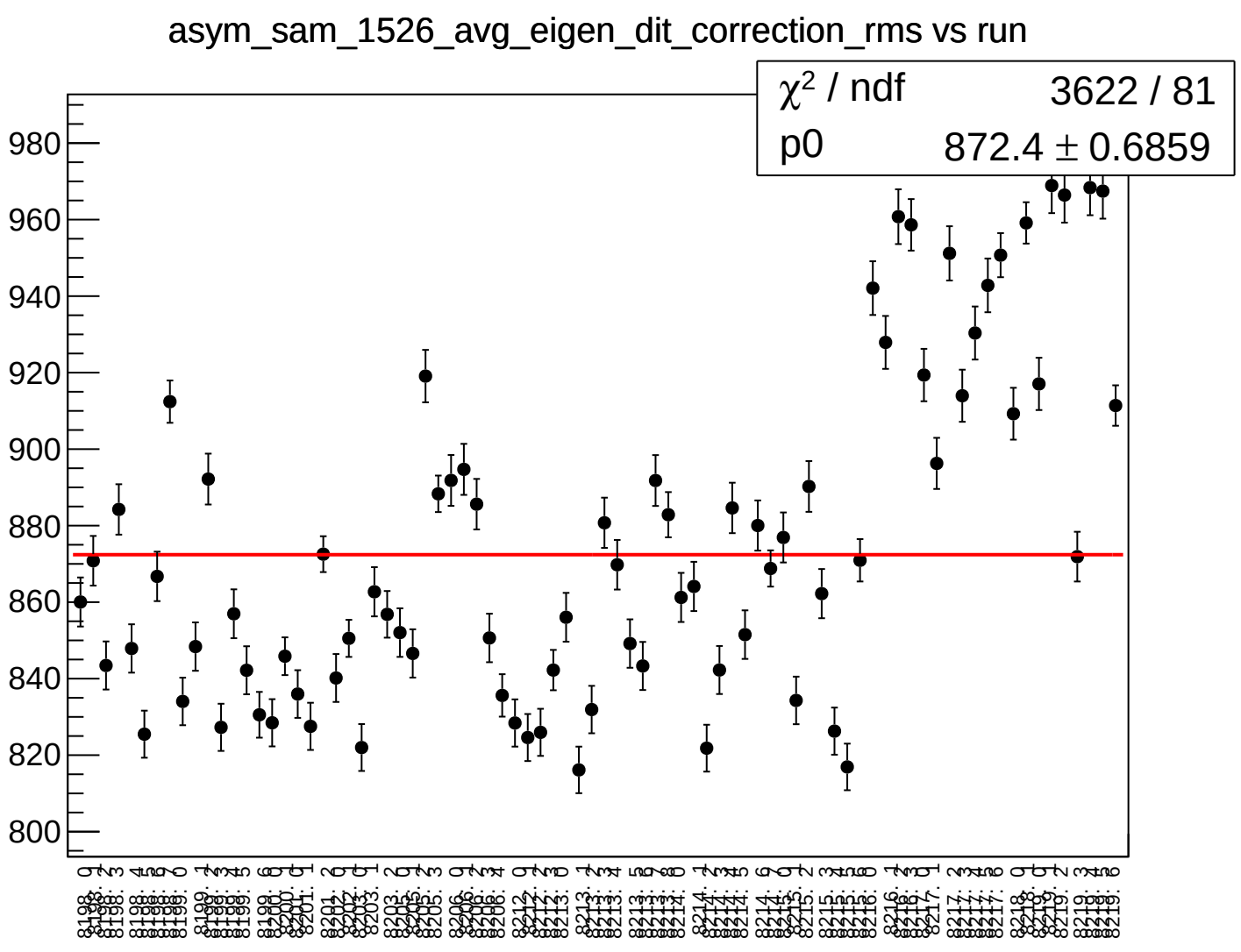

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 3622 / 81
p0 872.4 ± 0.6859
980
960
940
920
900
880
860
840
820
800

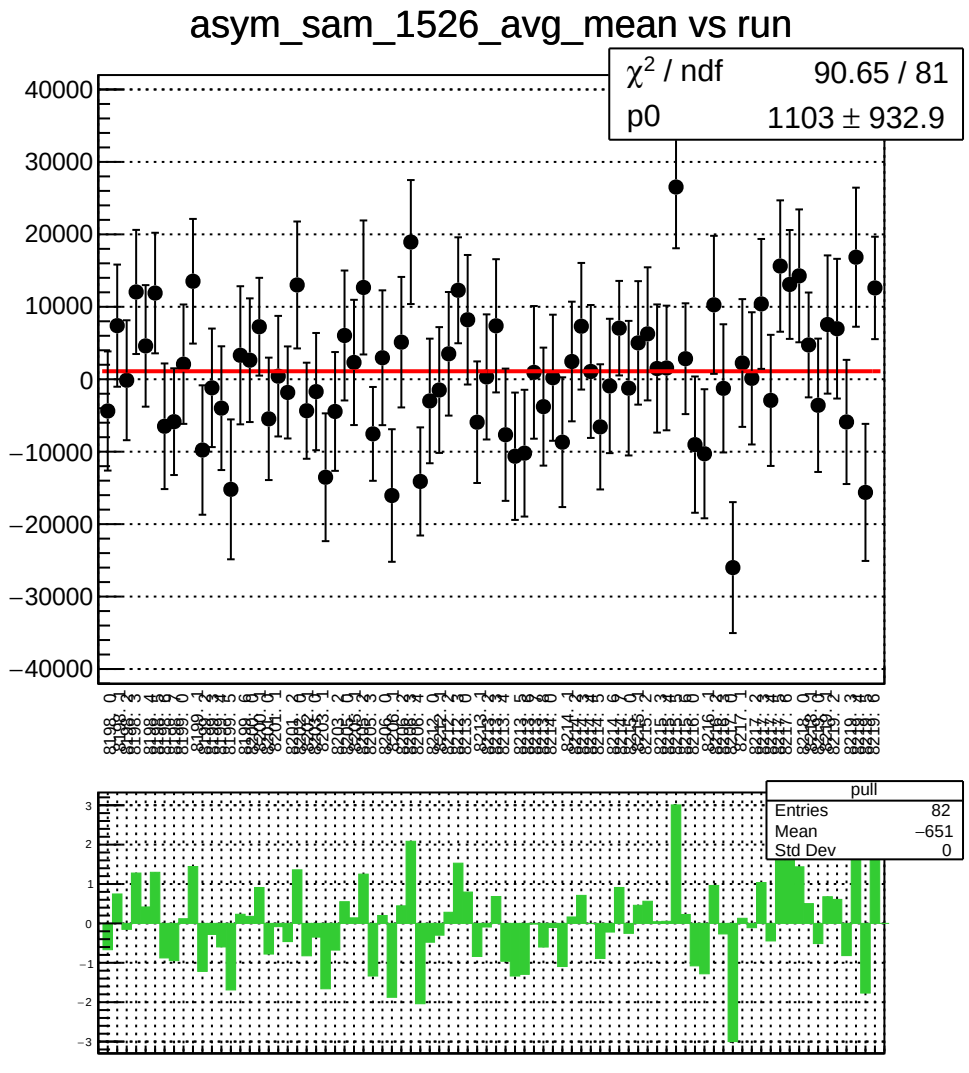

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 92.77 / 81
p0 66.62 ± 121
6000
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 52.06
Std Dev 39.76
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.05394
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

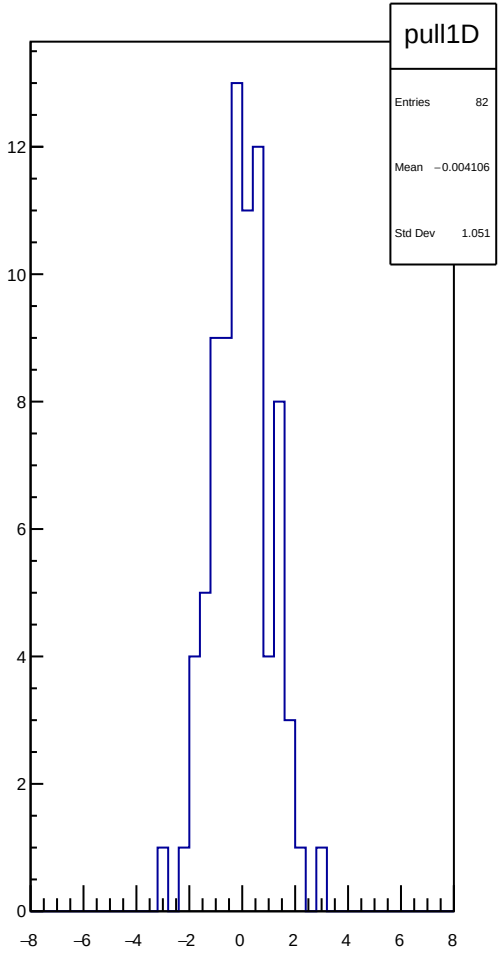

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.912e+04 / 81
p0 107.6 ± 0.08556
180
160
140
120
100
80

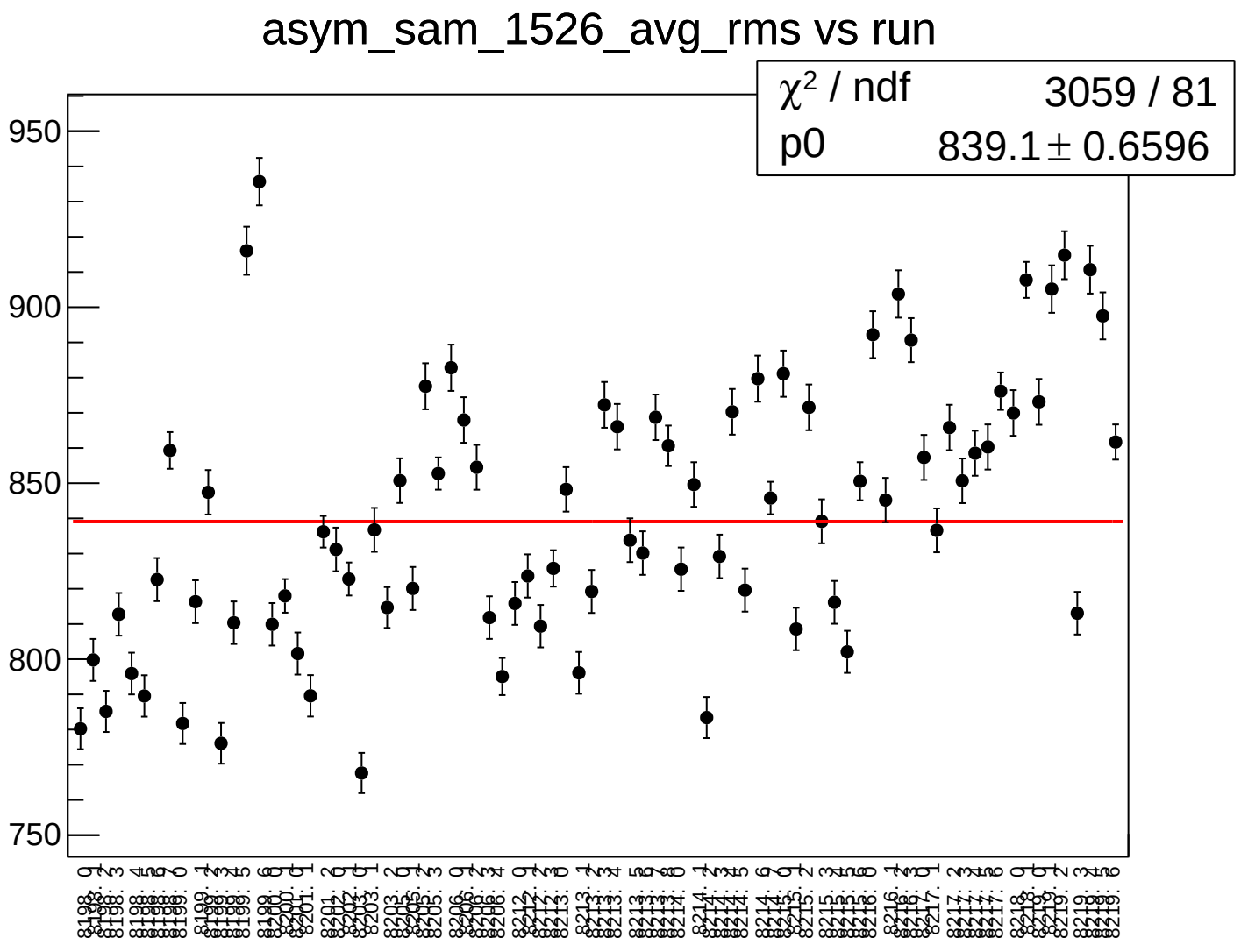

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.48 / 81
p0 −931.5 ± 970.1
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −486.4
Std Dev 0
3
2
1
0
−1
−2
−3

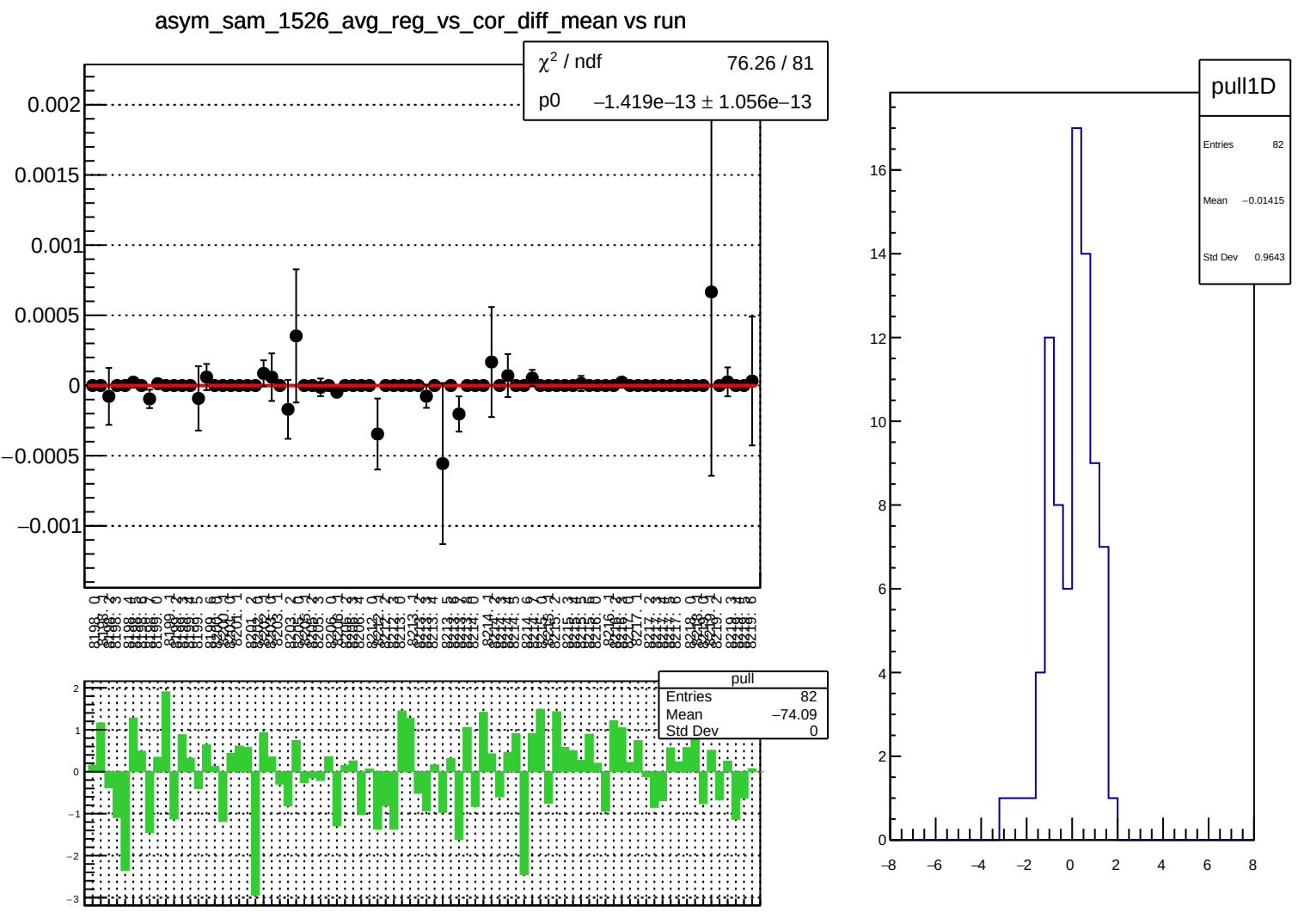

pull1D
Entries 82
Mean 0.005149
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

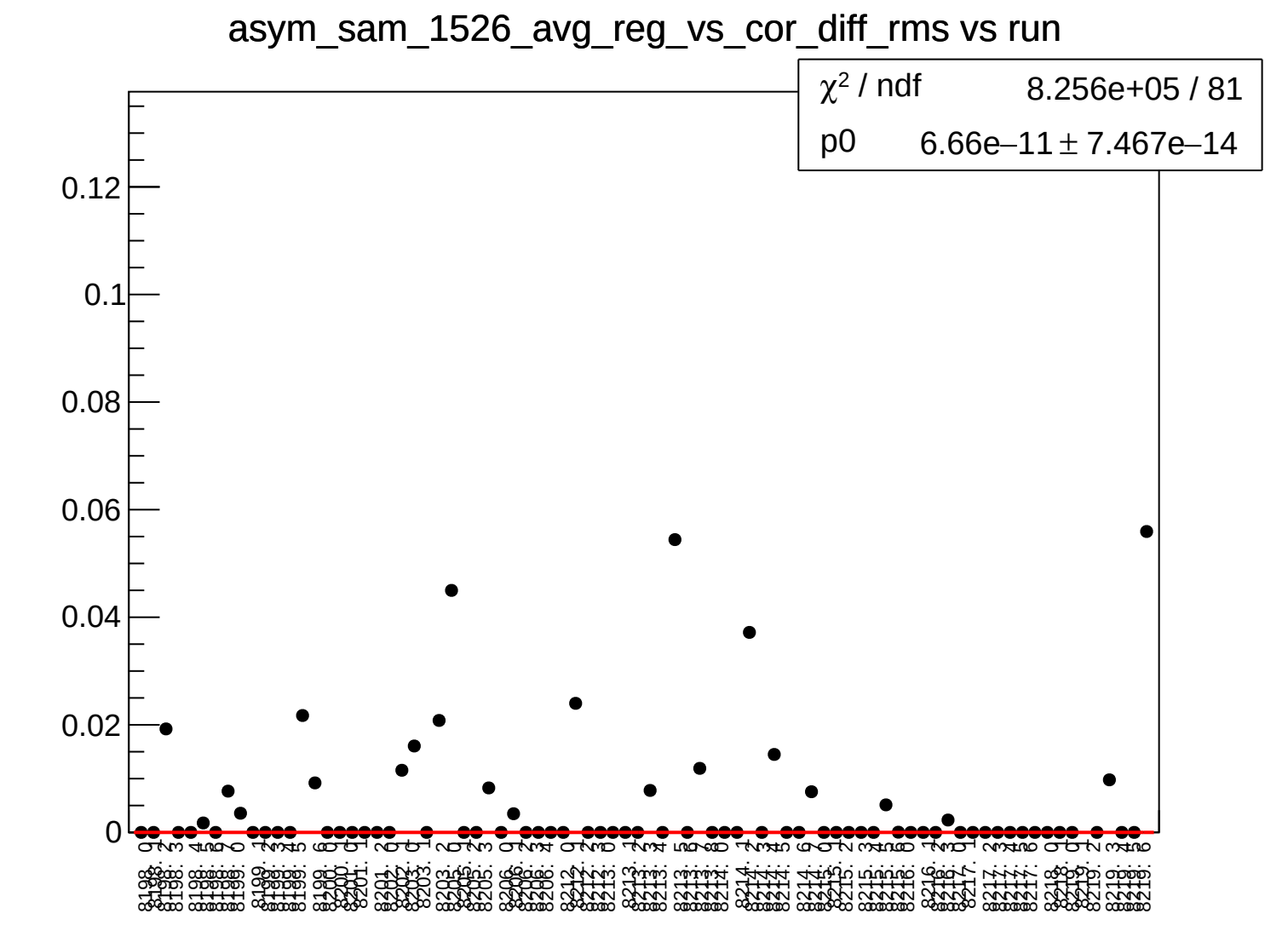

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 3622 / 81
p0 872.4 ± 0.6859
980
960
940
920
900
880
860
840
820
800

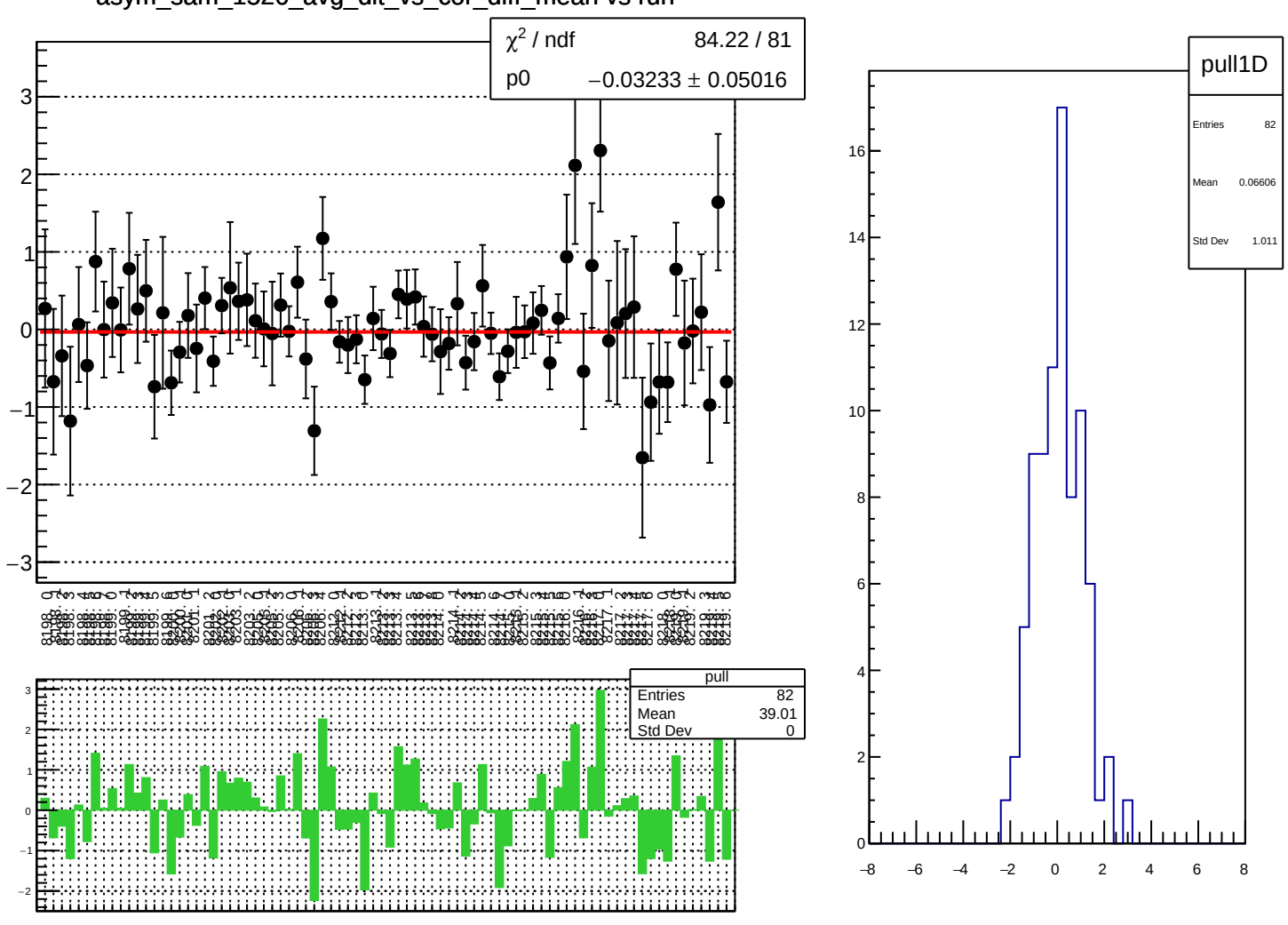

asym_sam_1526_avg_mean vs run
χ² / ndf 90.65 / 81
p0 1103 ± 932.9
pull
Entries 82
Mean −651
Std Dev 0

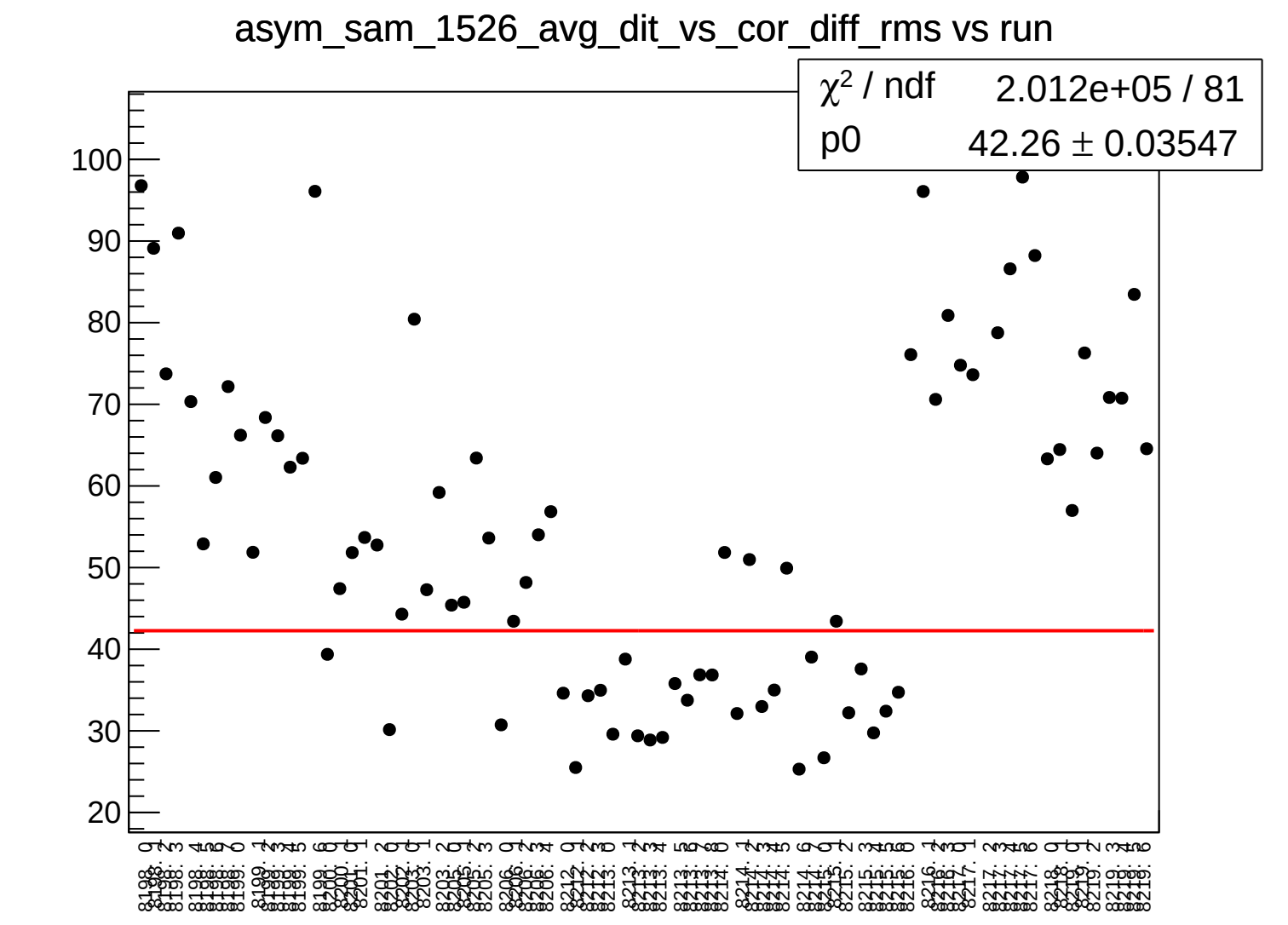

pull1D
Entries 82
Mean −0.004106
Std Dev 1.051

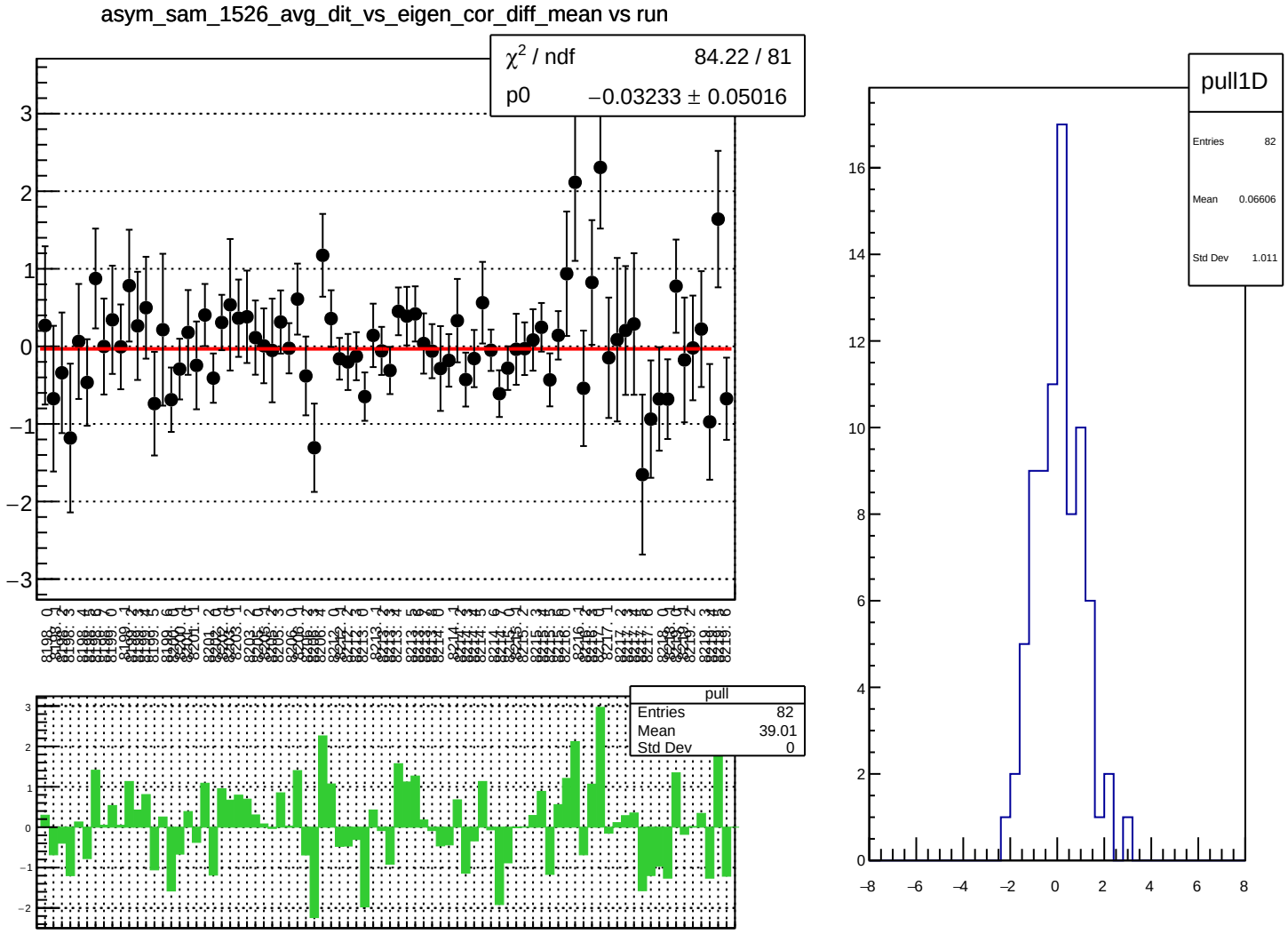

asym_sam_1526_avg_rms vs run
χ² / ndf 3059 / 81
p0 839.1 ± 0.6596
950
900
850
800
750

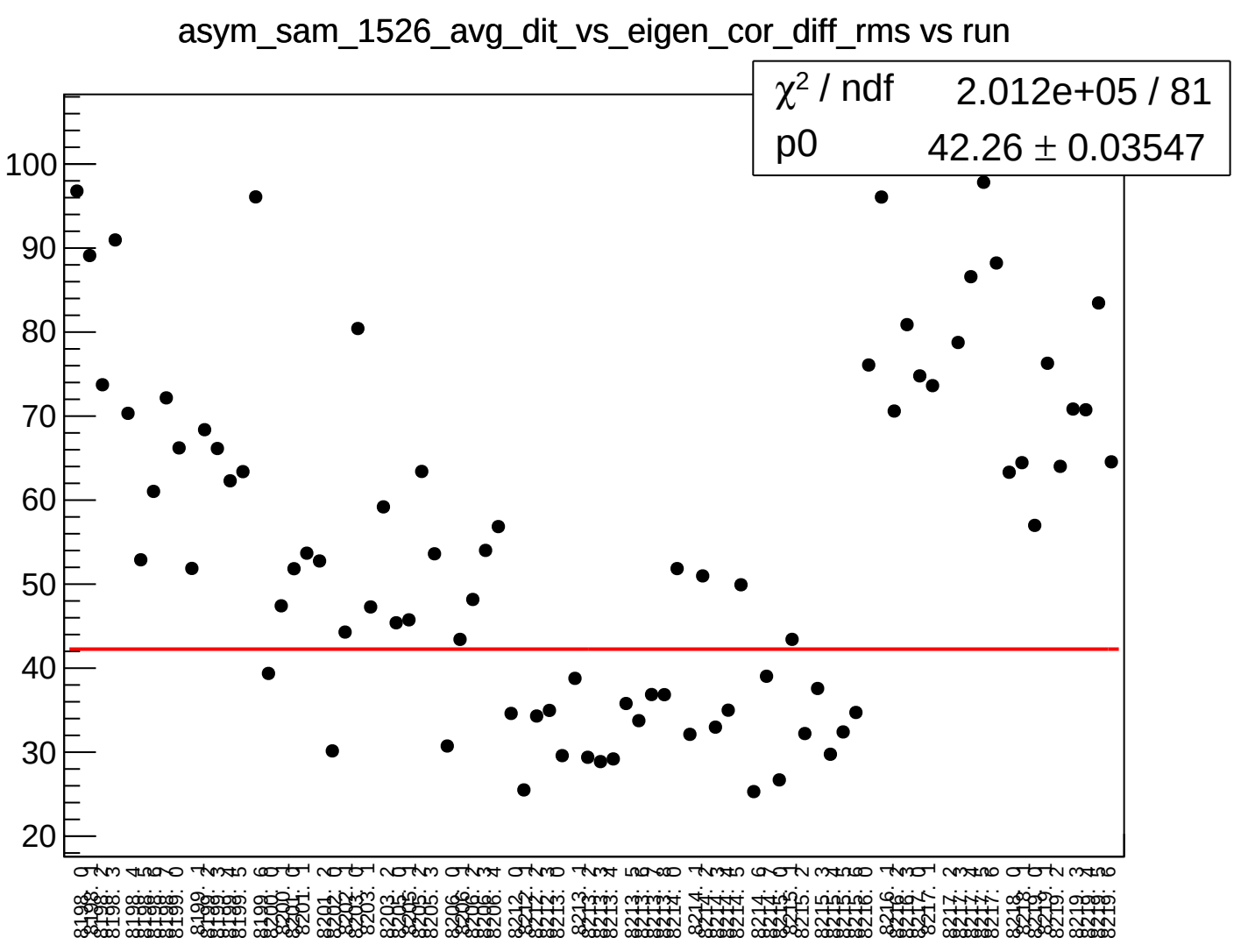

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.26 / 81
p0 −1.419e−13 ± 1.056e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean −74.09
Std Dev 0
pull1D
Entries 82
Mean −0.01415
Std Dev 0.9643

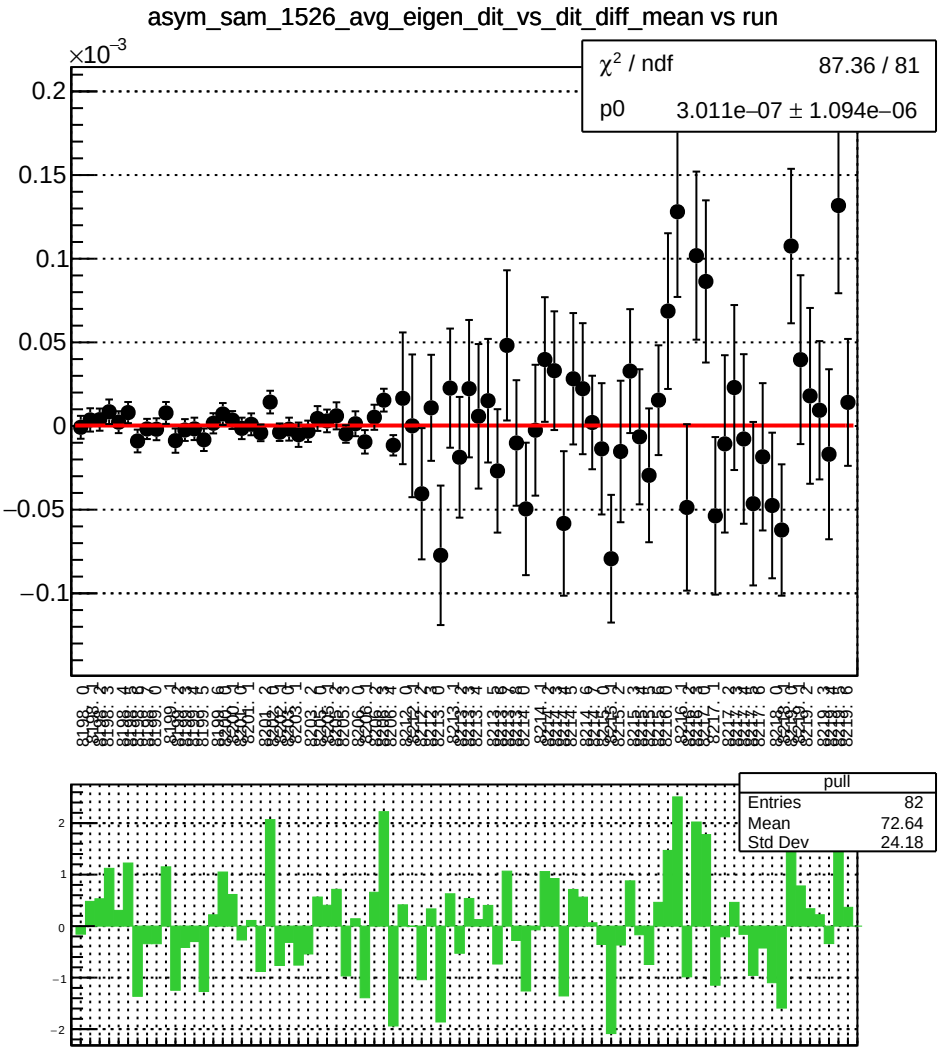

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.256e+05 / 81
p0 6.66e−11 ± 7.467e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

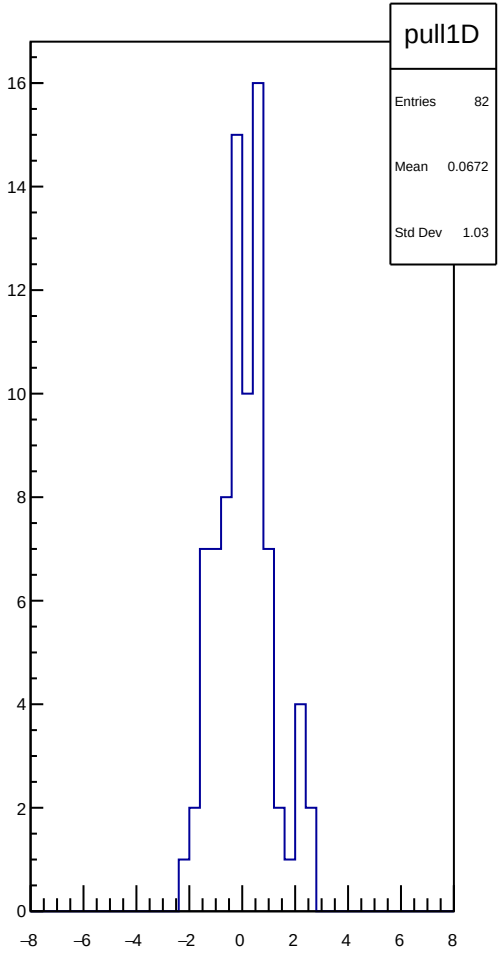

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.22 / 81
p0 −0.03233 ± 0.05016
pull
Entries 82
Mean 39.01
Std Dev 0
pull1D
Entries 82
Mean 0.06606
Std Dev 1.011

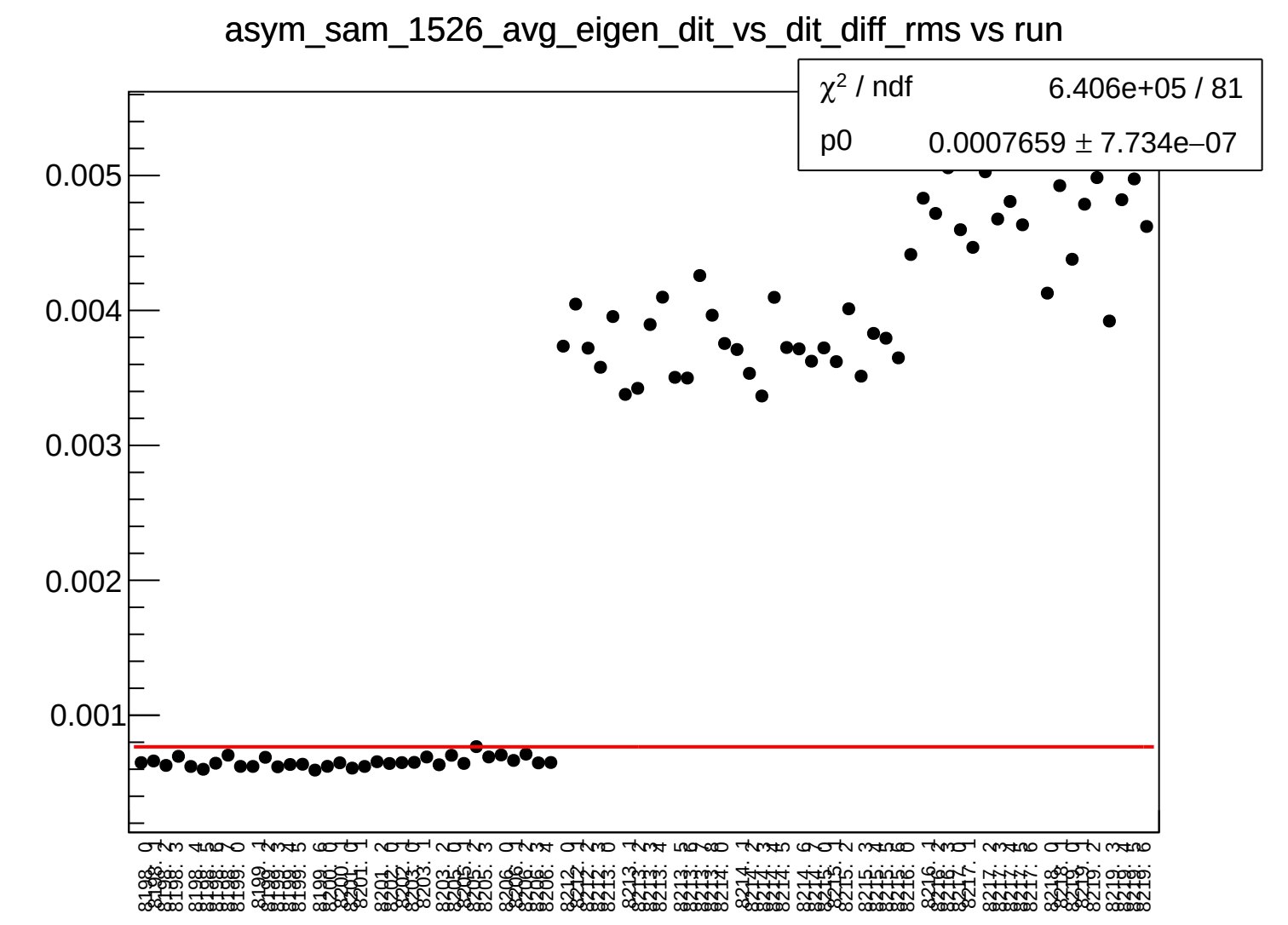

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.012e+05 / 81
p0 42.26 ± 0.03547
100
90
80
70
60
50
40
30
20

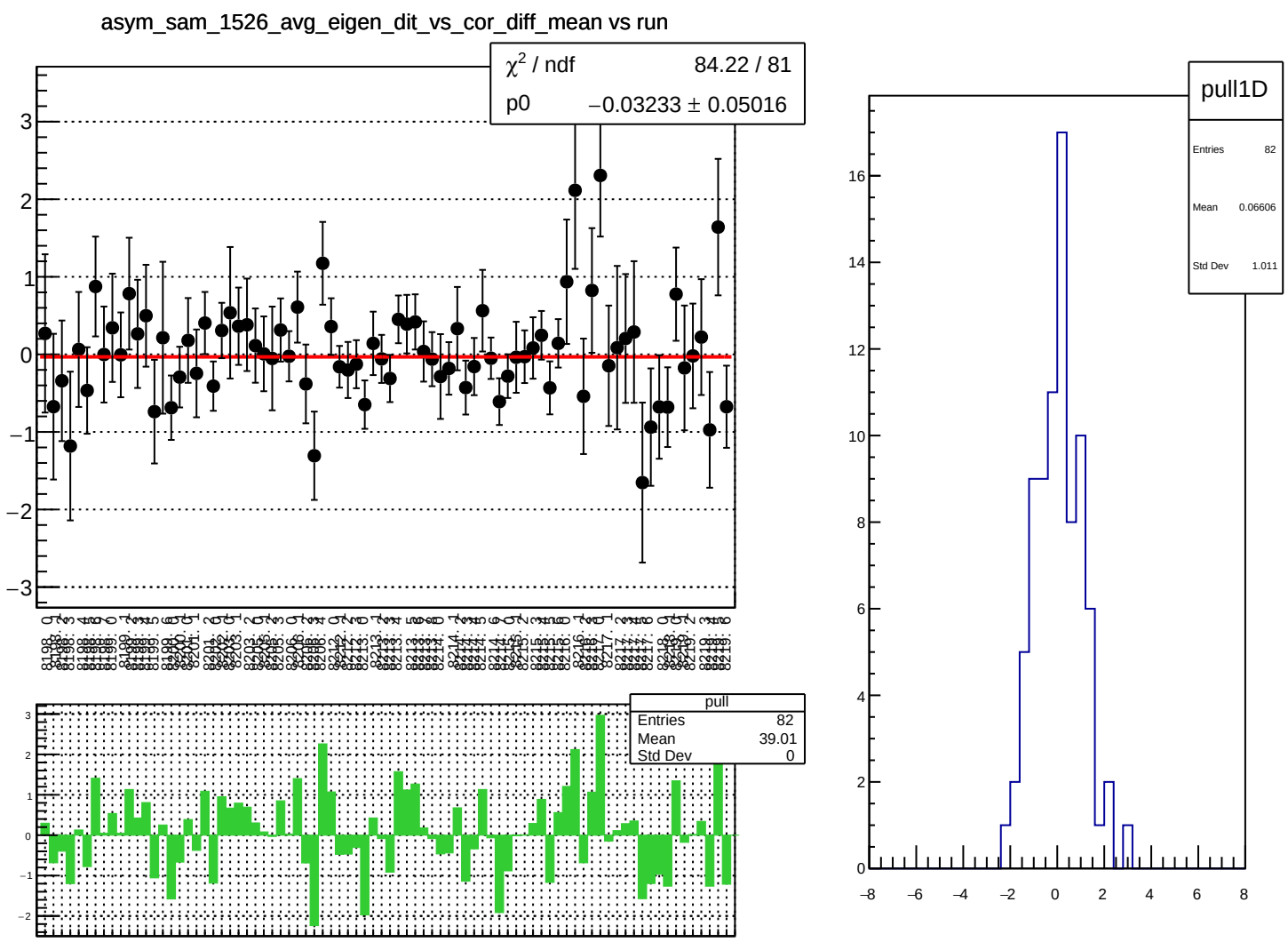

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.22 / 81
p0 −0.03233 ± 0.05016
pull
Entries 82
Mean 39.01
Std Dev 0
pull1D
Entries 82
Mean 0.06606
Std Dev 1.011

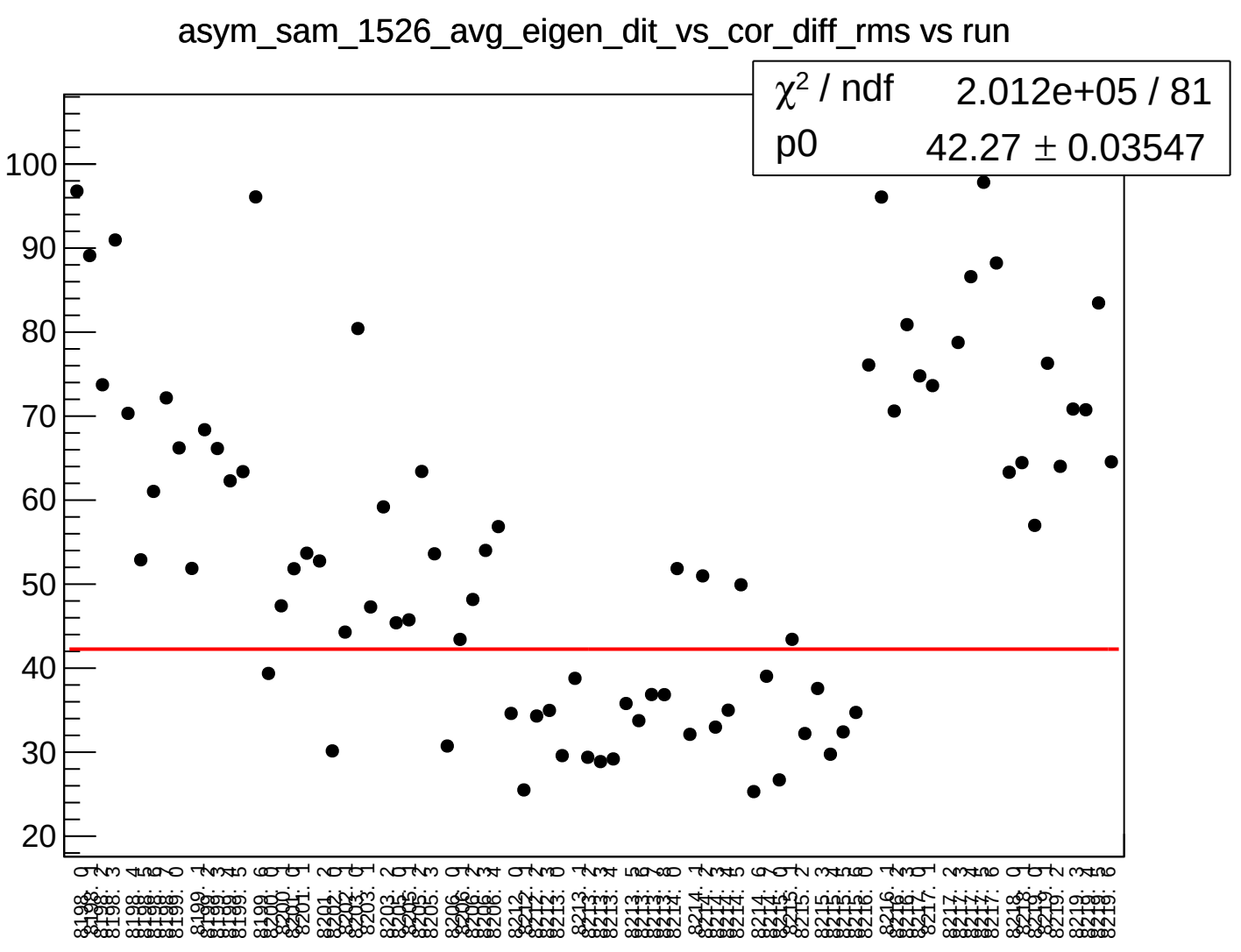

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 2.012e+05 / 81
p0 42.26 ± 0.03547
100
90
80
70
60
50
40
30
20

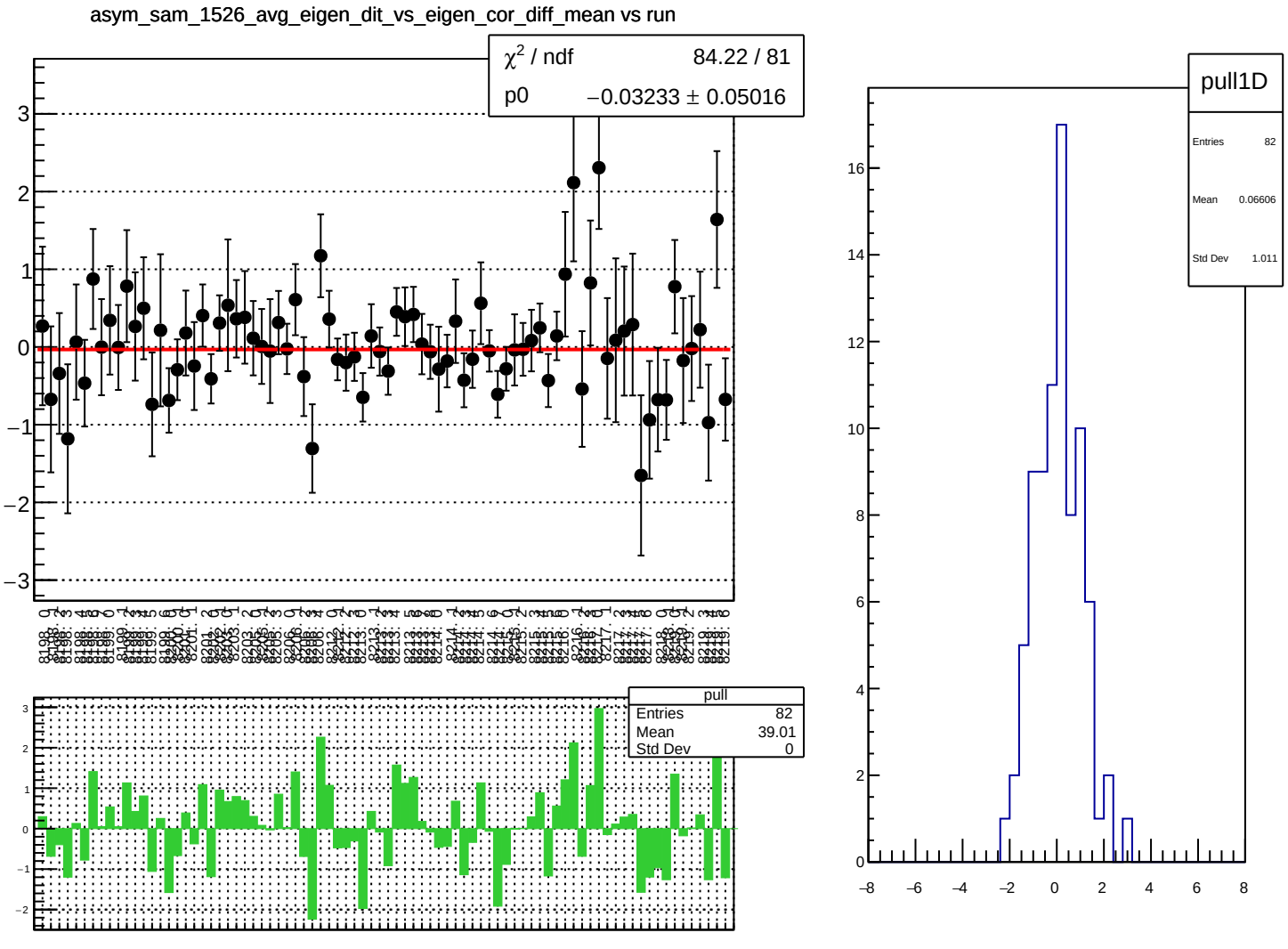

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.36 / 81
p0 3.011e−07 ± 1.094e−06
pull
Entries 82
Mean 72.64
Std Dev 24.18

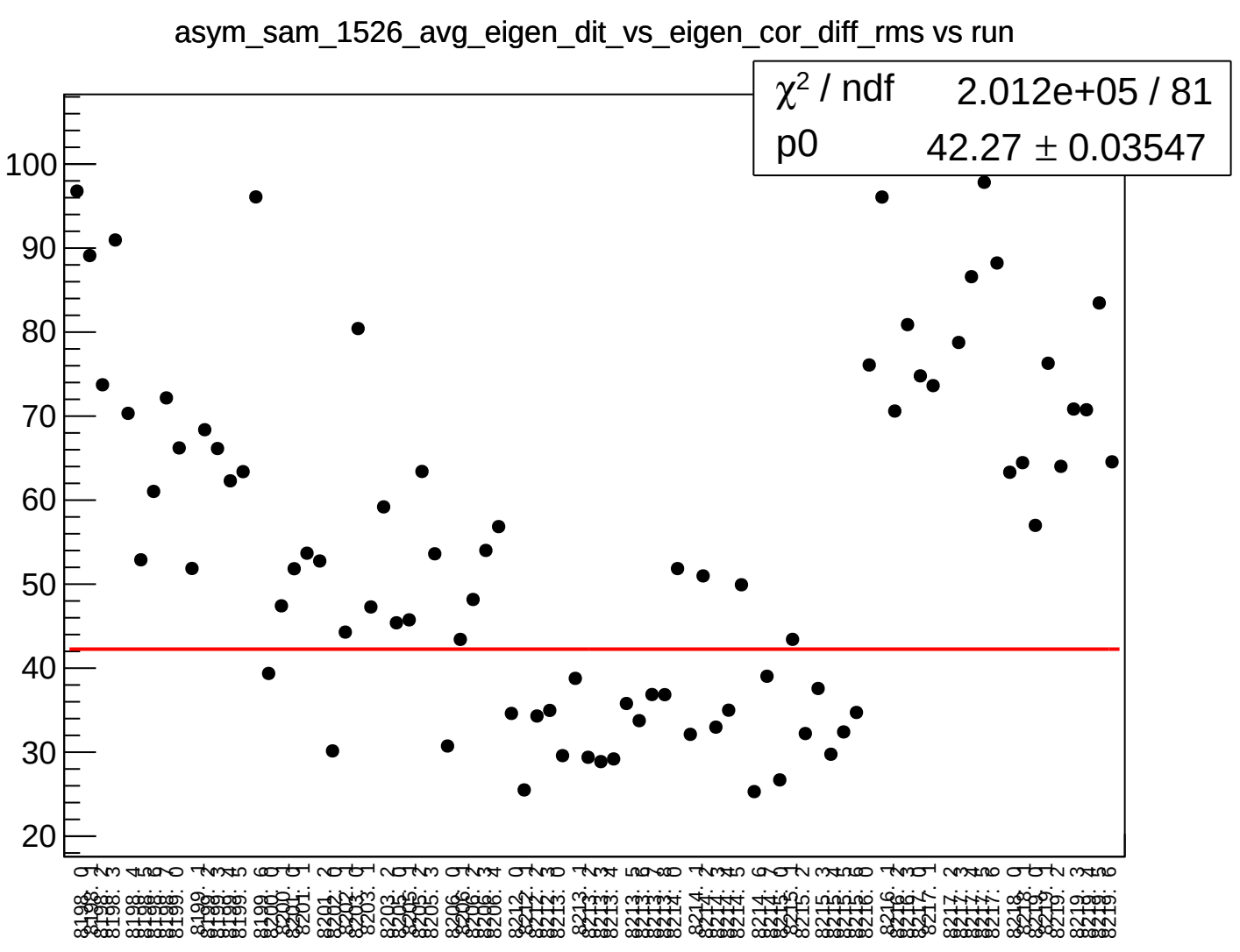

pull1D
Entries 82
Mean 0.0672
Std Dev 1.03

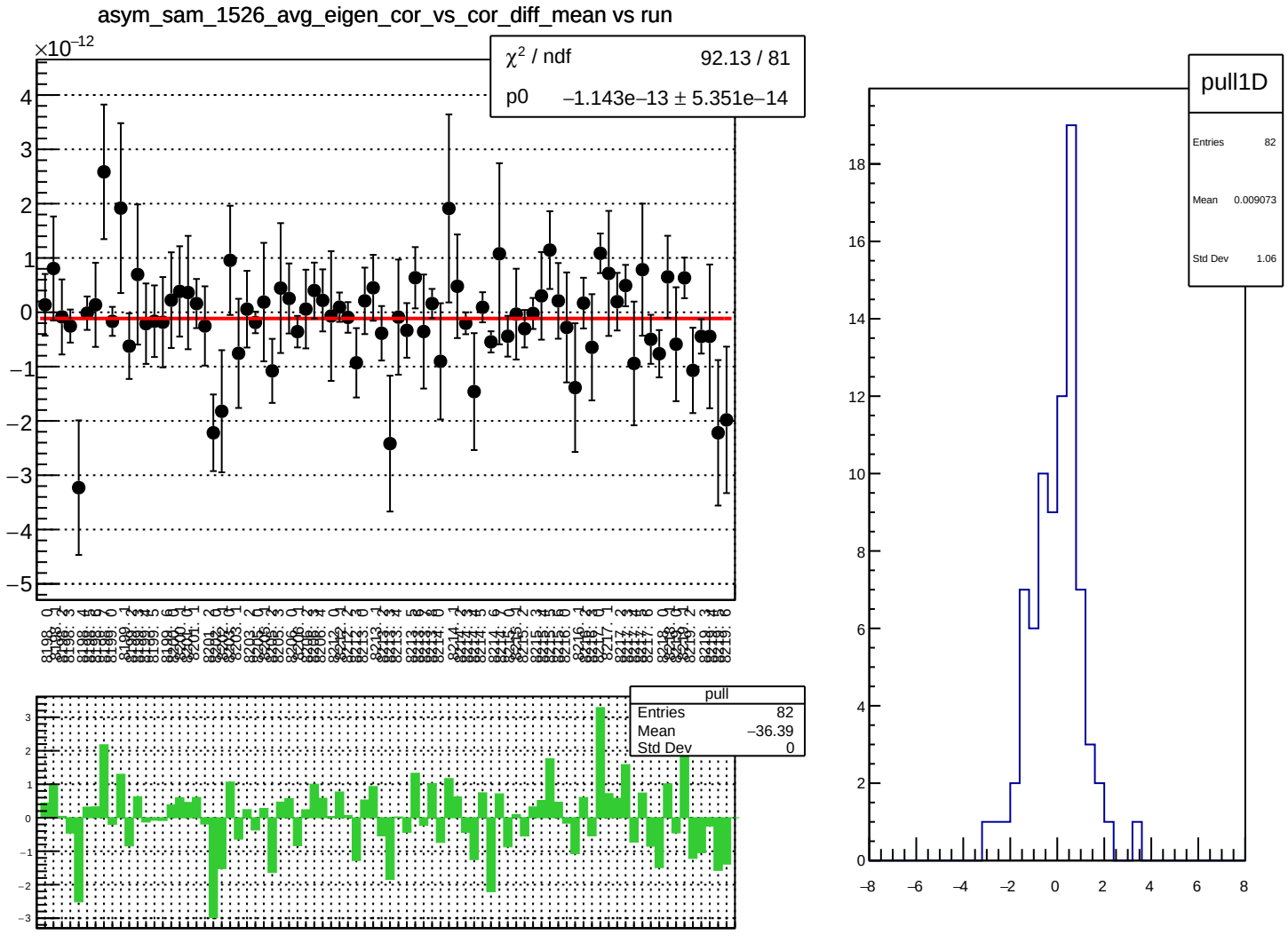

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.406e+05 / 81
p0 0.0007659 ± 7.734e−07
0.005
0.004
0.003
0.002
0.001

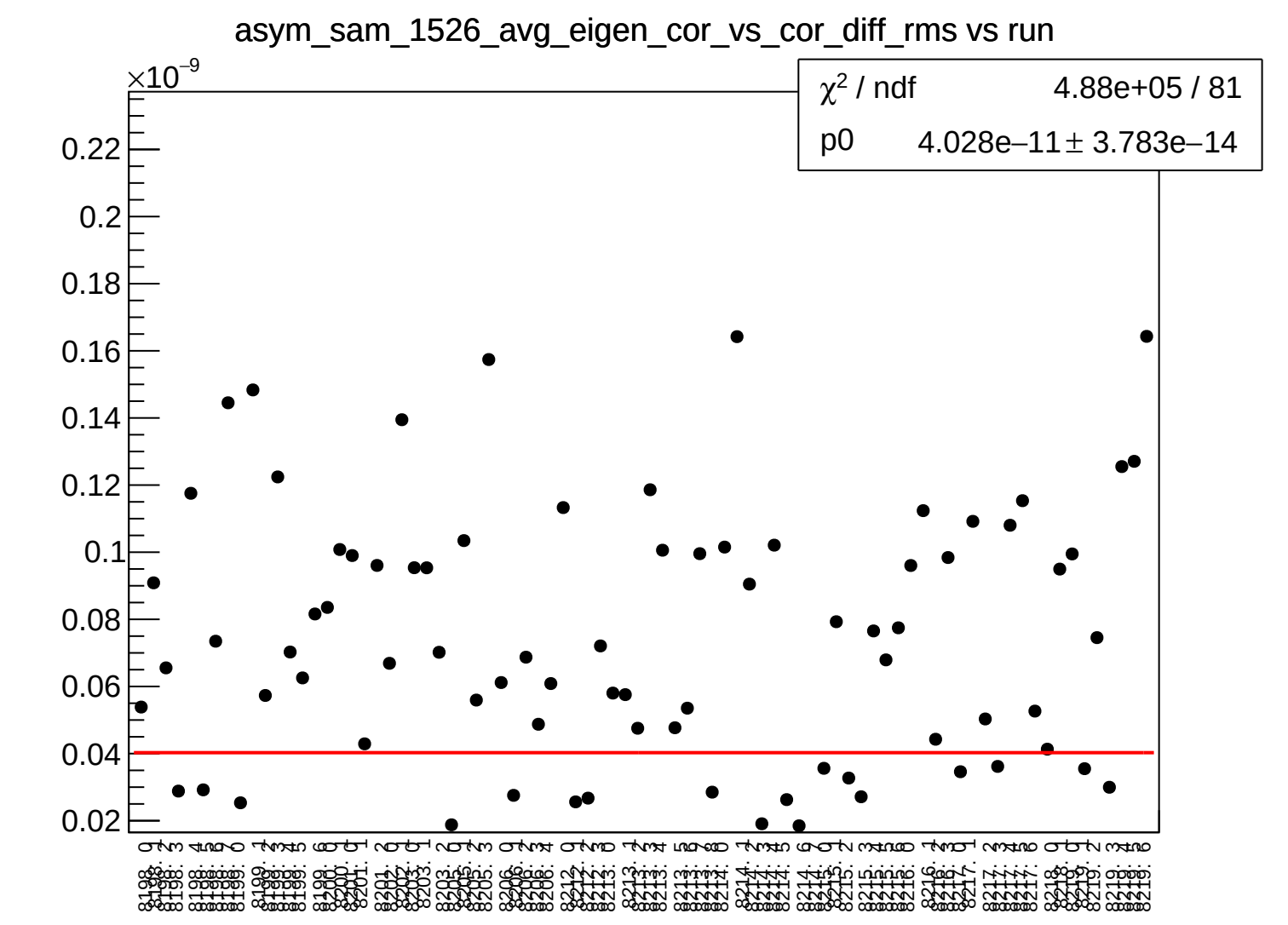

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.22 / 81
p0 −0.03233 ± 0.05016
pull
Entries 82
Mean 39.01
Std Dev 0
pull1D
Entries 82
Mean 0.06606
Std Dev 1.011

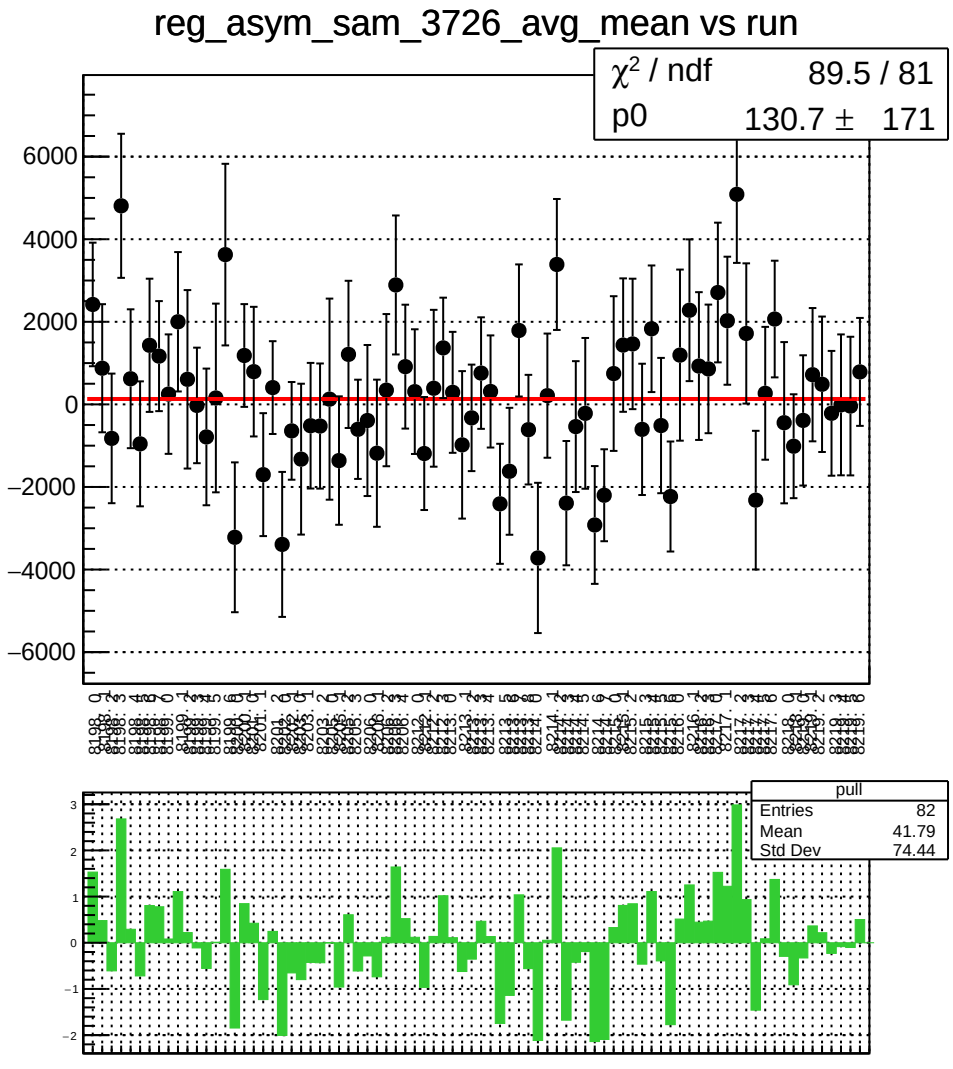

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.012e+05 / 81
p0 42.27 ± 0.03547
100
90
80
70
60
50
40
30
20

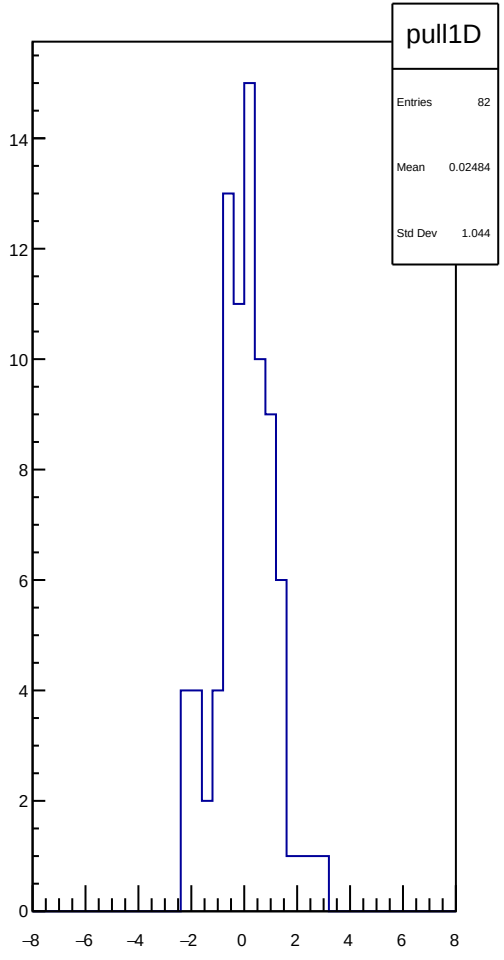

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.22 / 81
p0 −0.03233 ± 0.05016
pull
Entries 82
Mean 39.01
Std Dev 0
pull1D
Entries 82
Mean 0.06606
Std Dev 1.011

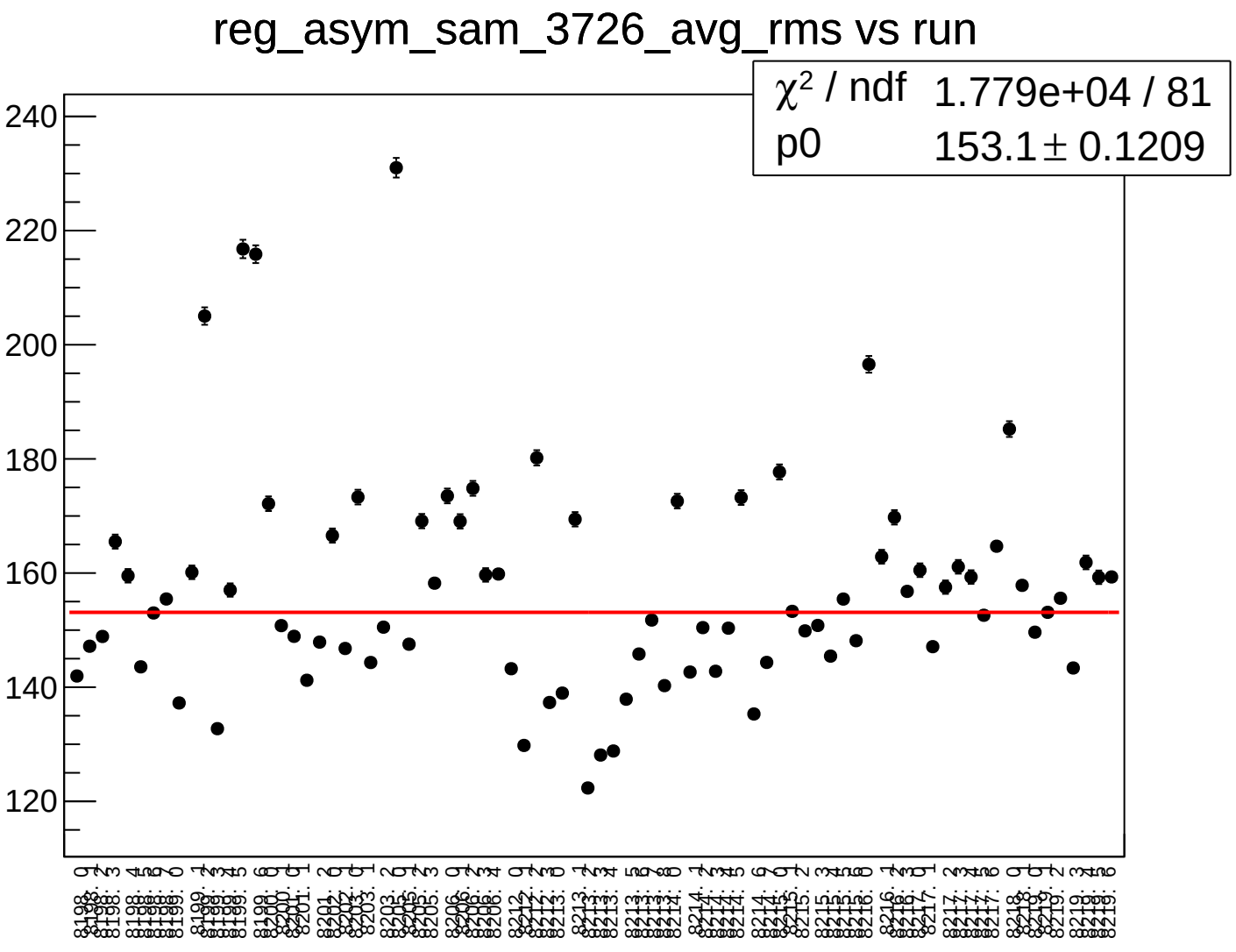

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.012e+05 / 81
p0 42.27 ± 0.03547
100
90
80
70
60
50
40
30
20

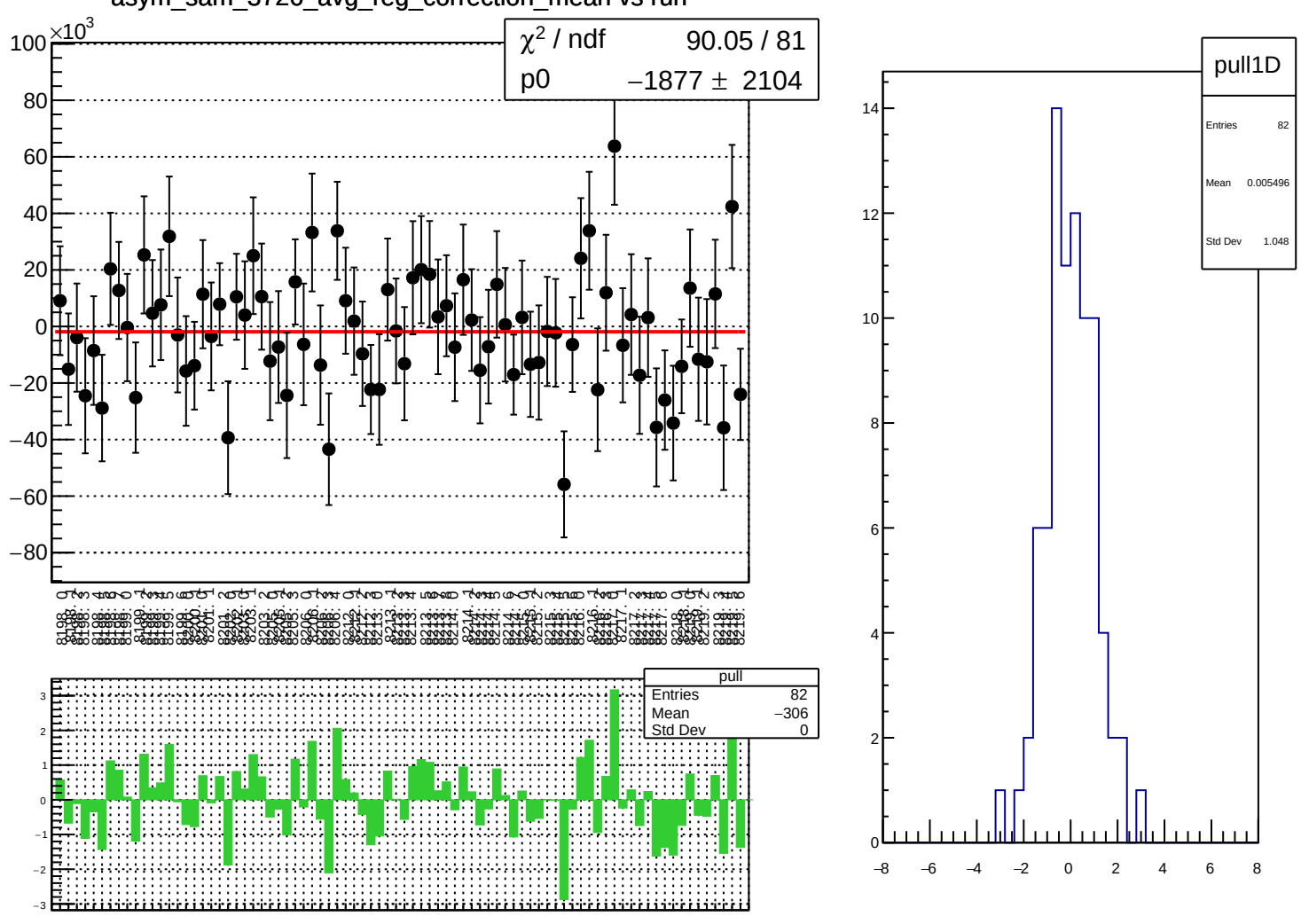

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.13 / 81
p0 −1.143e−13 ± 5.351e−14
pull
Entries 82
Mean −36.39
Std Dev 0
pull1D
Entries 82
Mean 0.009073
Std Dev 1.06

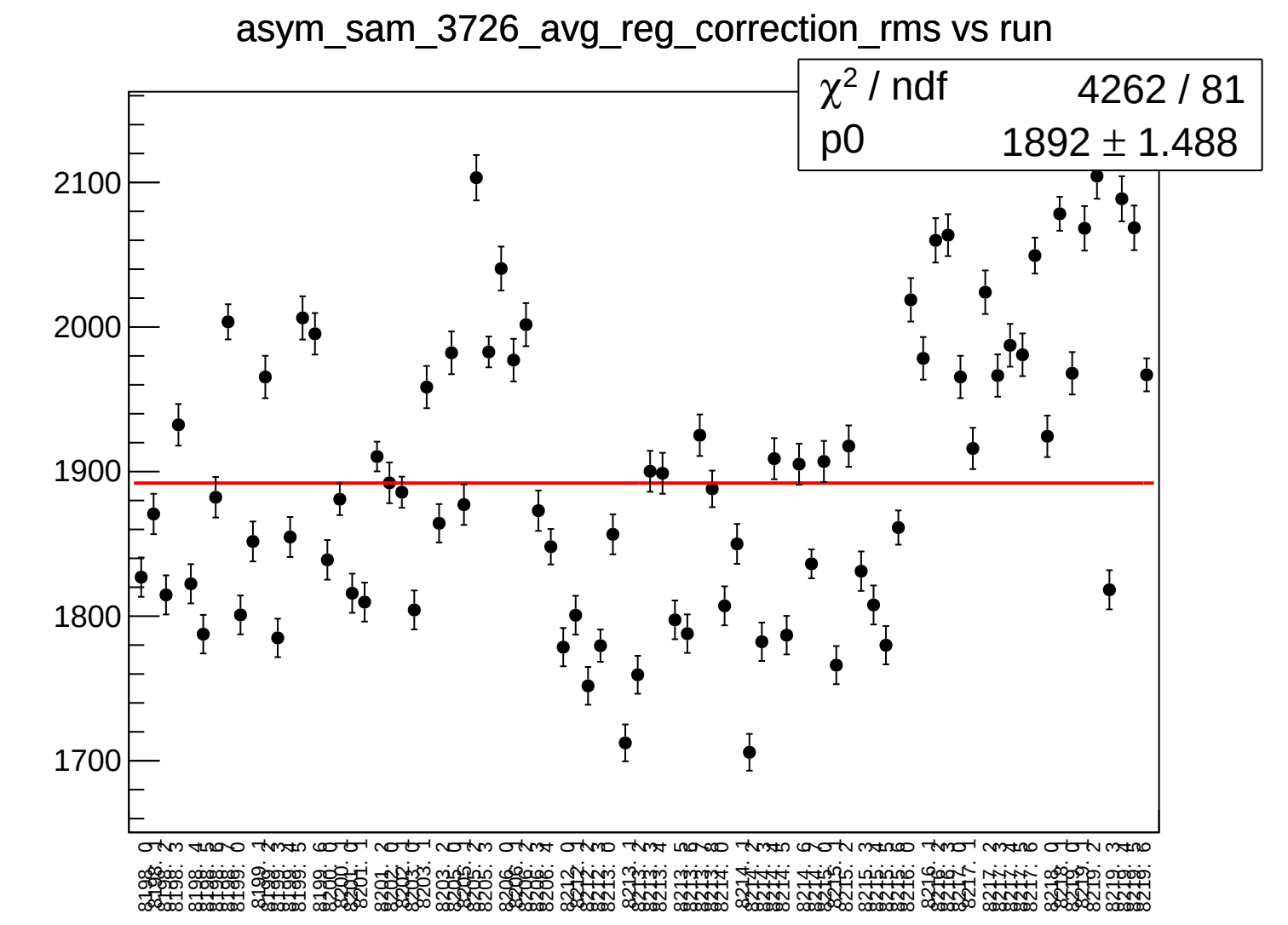

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.88e+05 / 81
p0 4.028e−11 ± 3.783e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

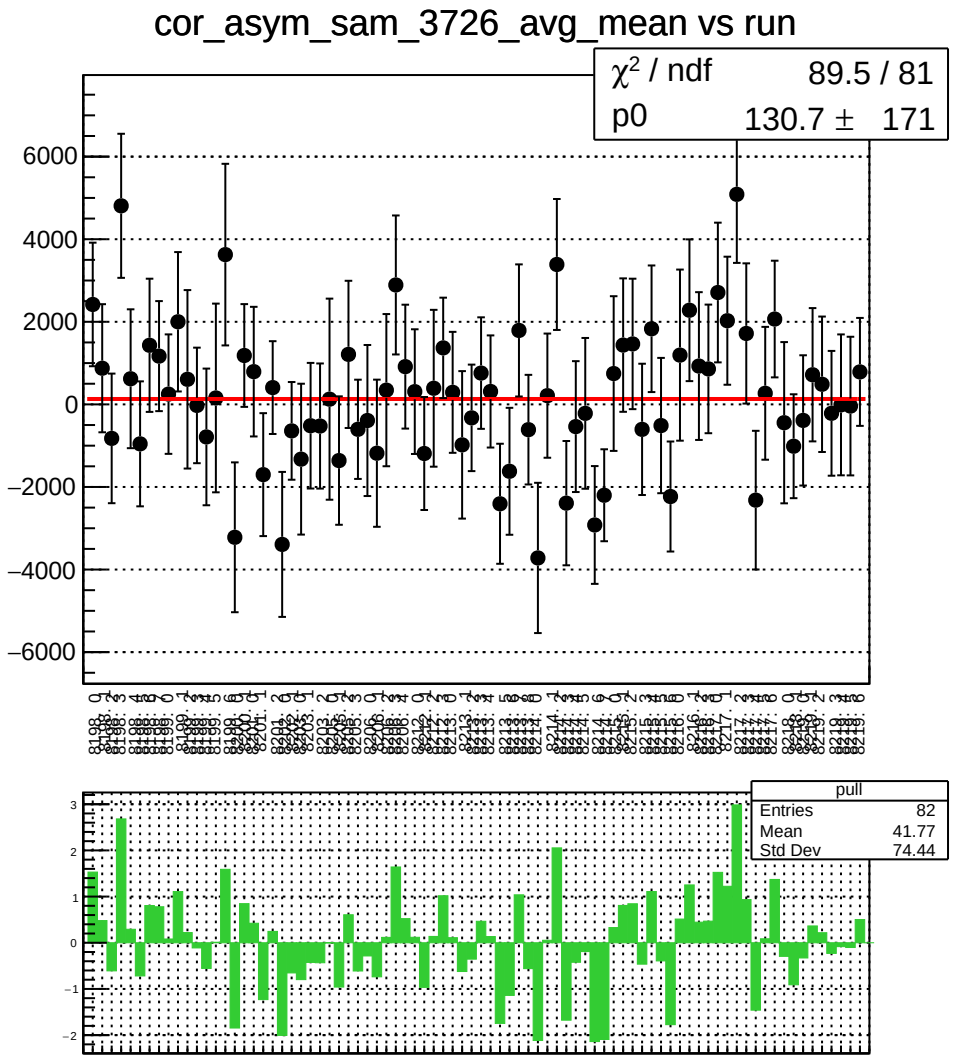

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 89.5 / 81
p0 130.7 ± 171
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean 41.79
Std Dev 74.44
3
2
1
0
−1
−2

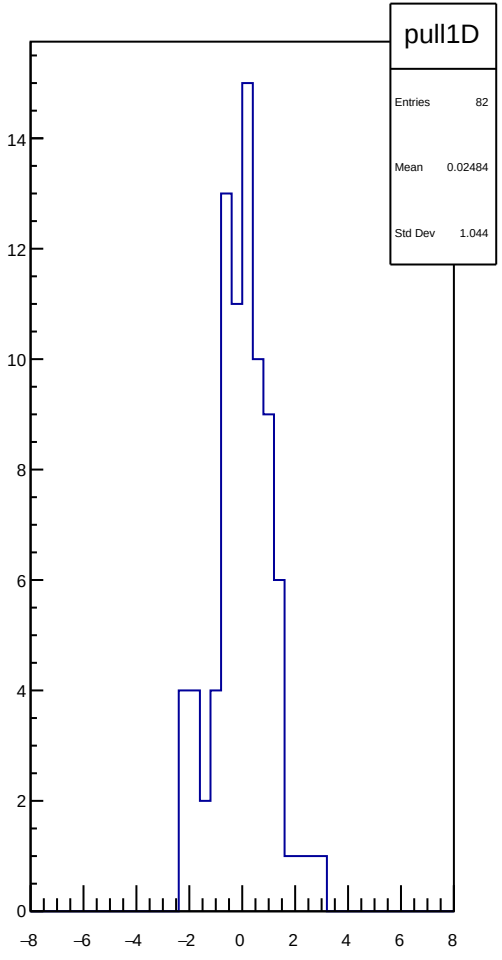

pull1D
Entries 82
Mean 0.02484
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

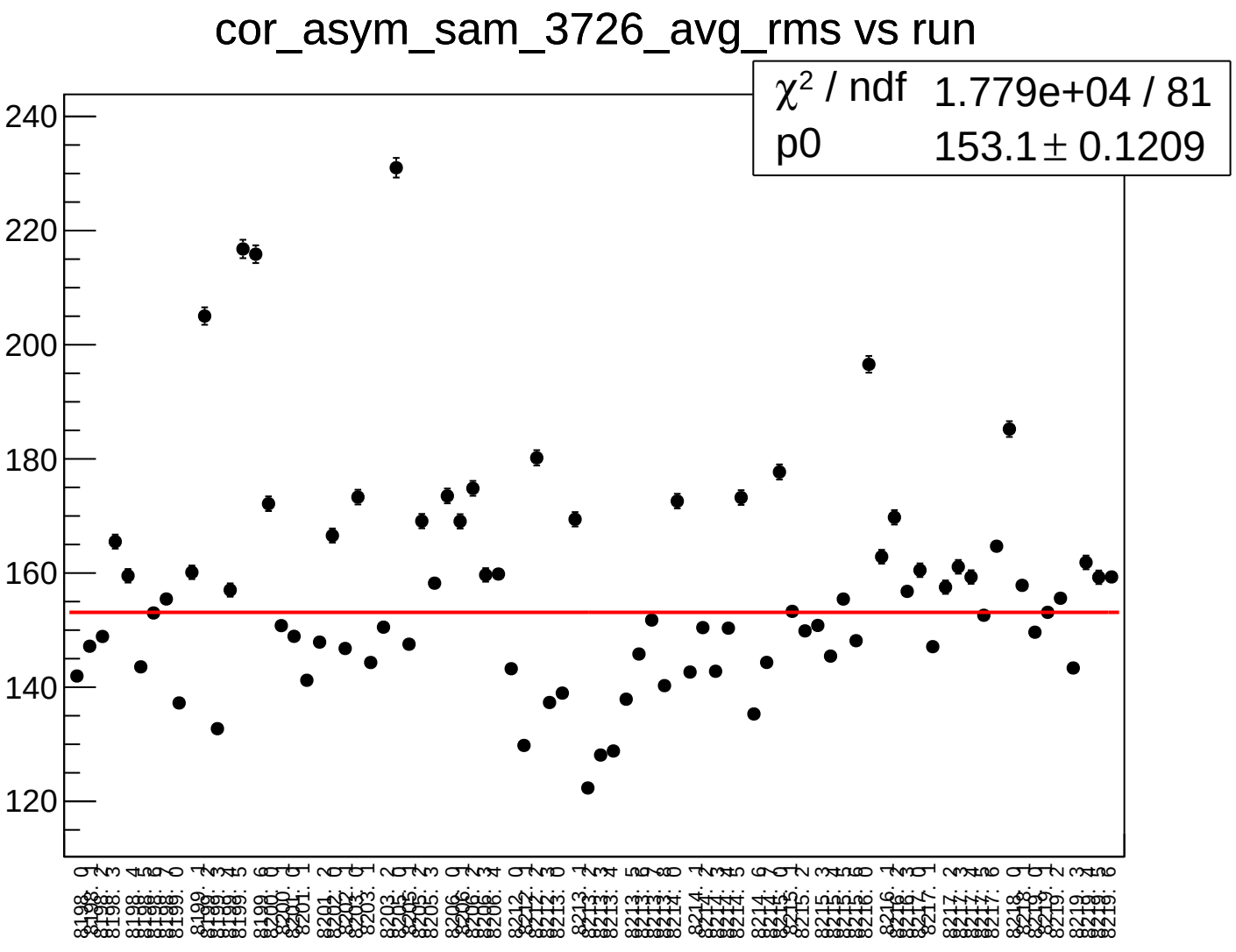

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.779e+04 / 81
p0 153.1 ± 0.1209
240
220
200
180
160
140
120

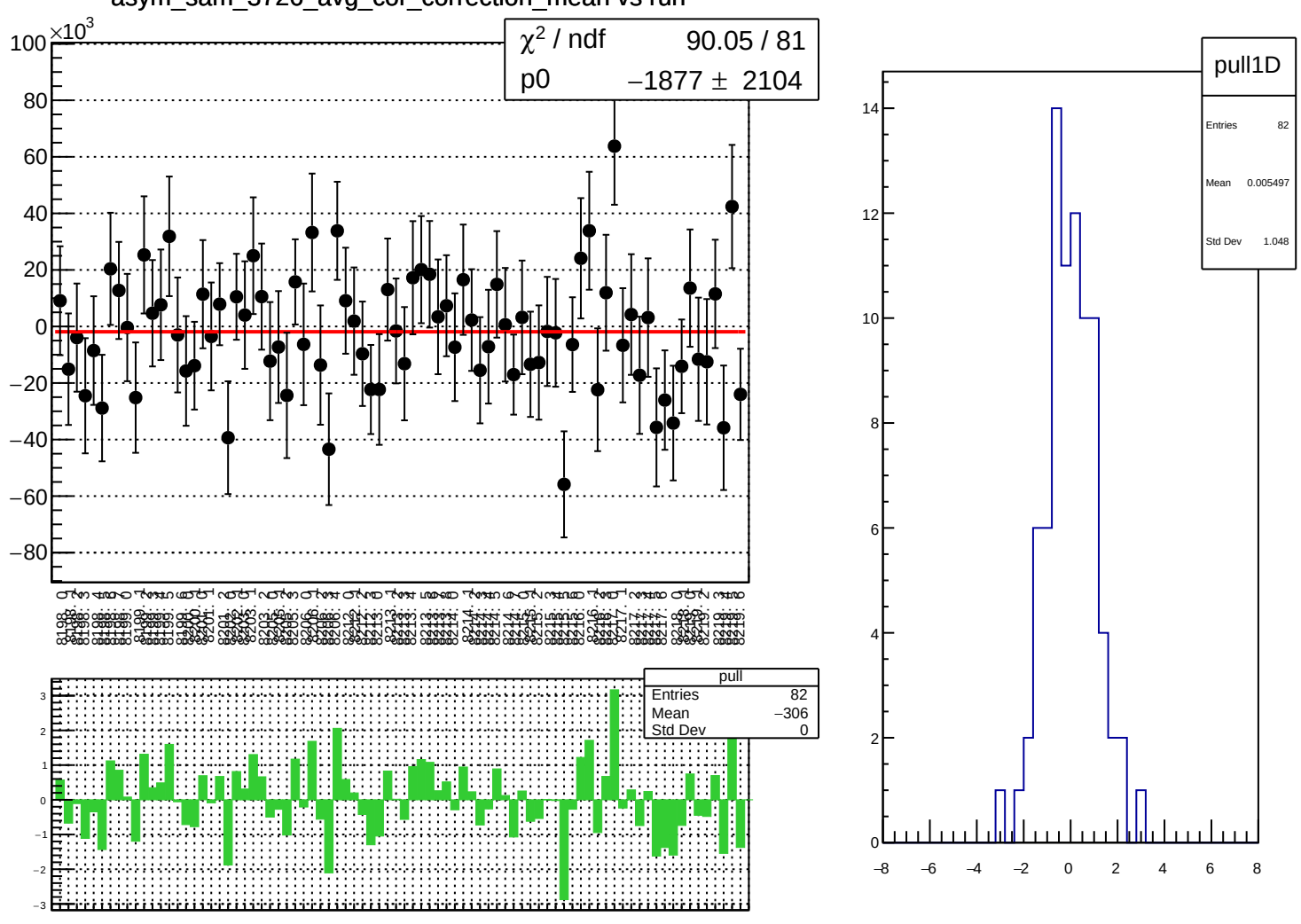

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 90.05 / 81
p0 −1877 ± 2104
×10³
pull
Entries 82
Mean −306
Std Dev 0
pull1D
Entries 82
Mean 0.005496
Std Dev 1.048

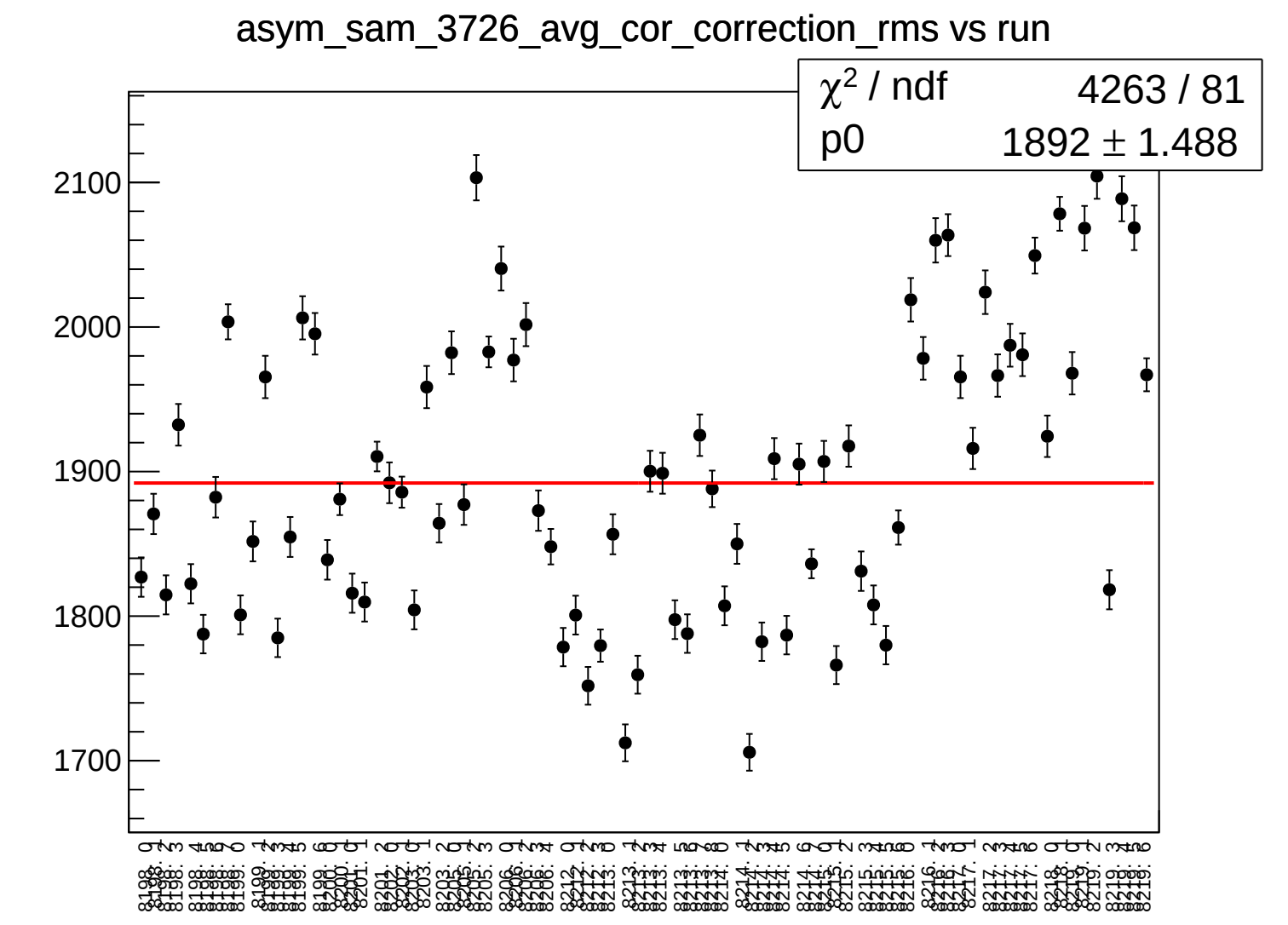

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 4262 / 81
p0 1892 ± 1.488
2100
2000
1900
1800
1700

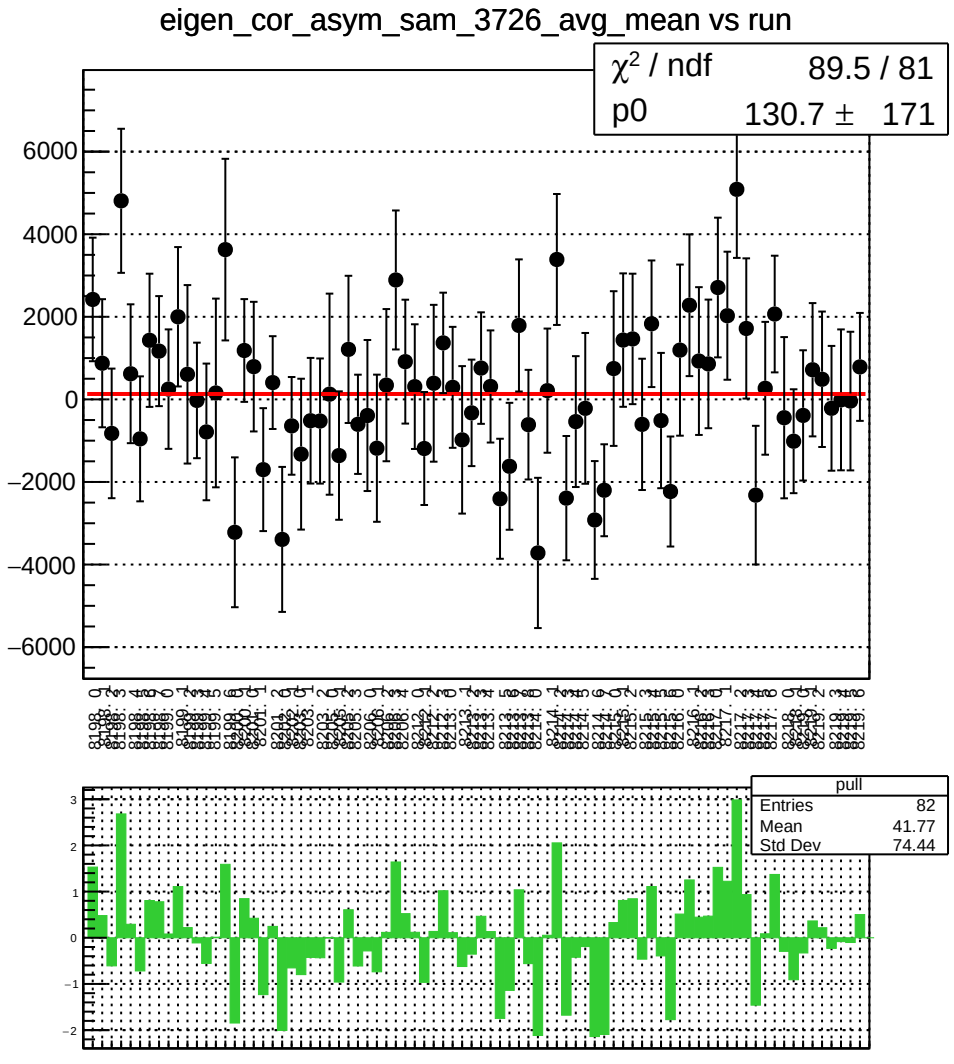

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 89.5 / 81
p0 130.7 ± 171
pull
Entries 82
Mean 41.77
Std Dev 74.44

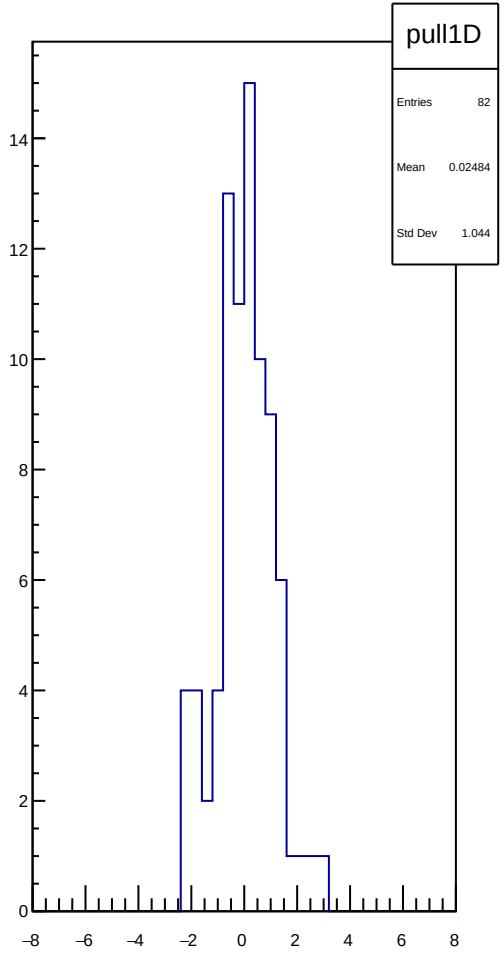

pull1D
Entries 82
Mean 0.02484
Std Dev 1.044

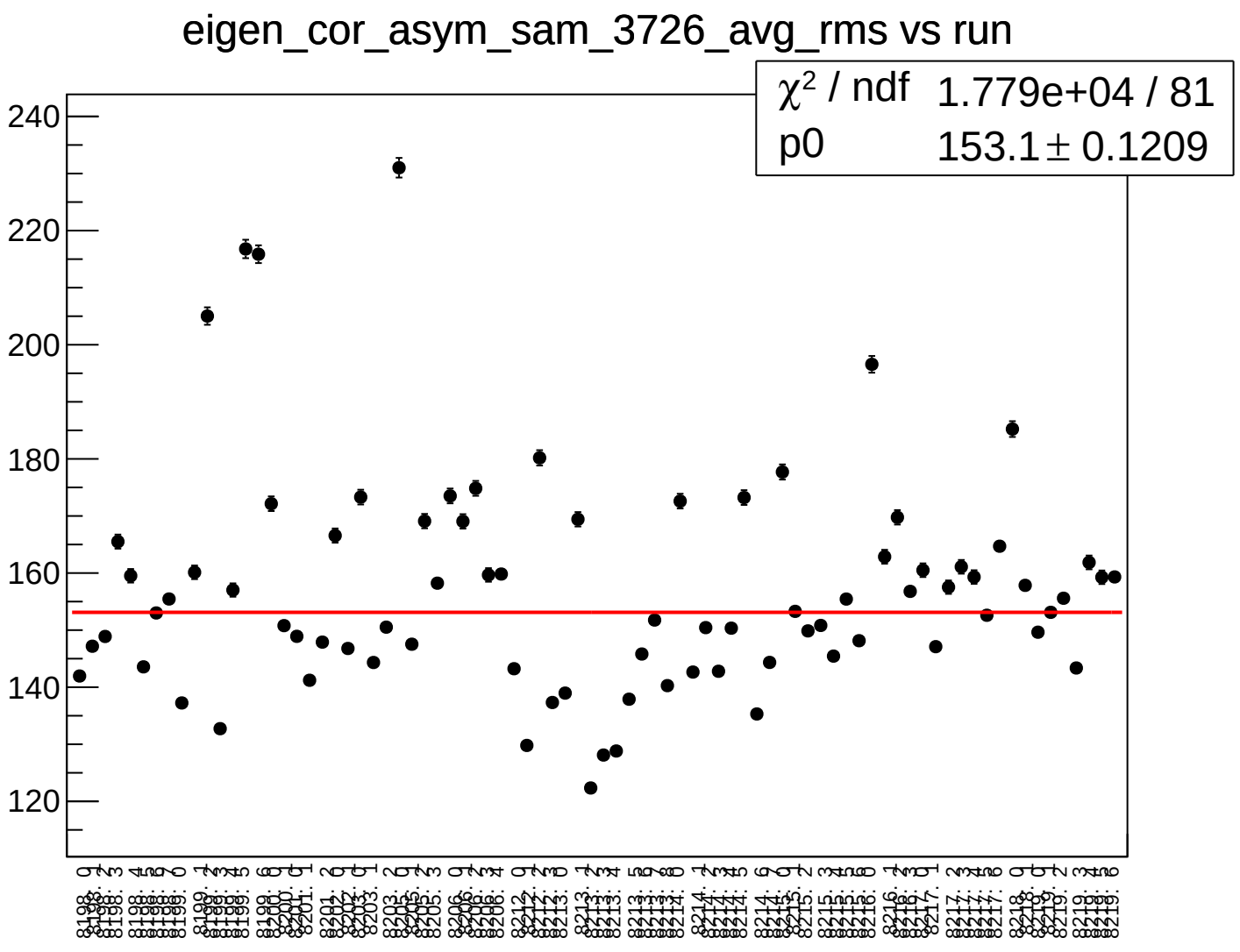

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.779e+04 / 81
p0 153.1 ± 0.1209
240
220
200
180
160
140
120

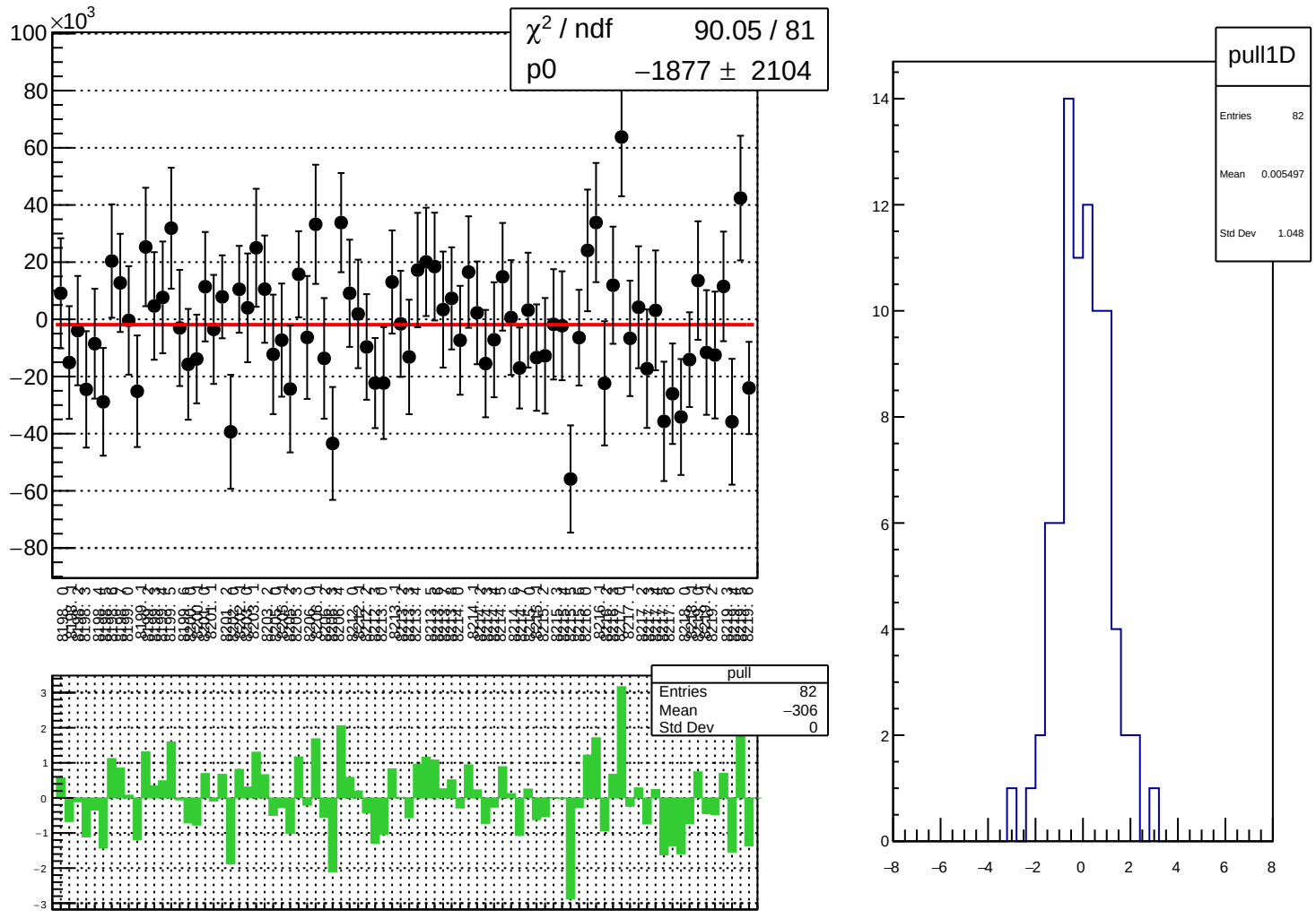

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 90.05 / 81
p0 −1877 ± 2104
×10³
pull
Entries 82
Mean −306
Std Dev 0
pull1D
Entries 82
Mean 0.005497
Std Dev 1.048

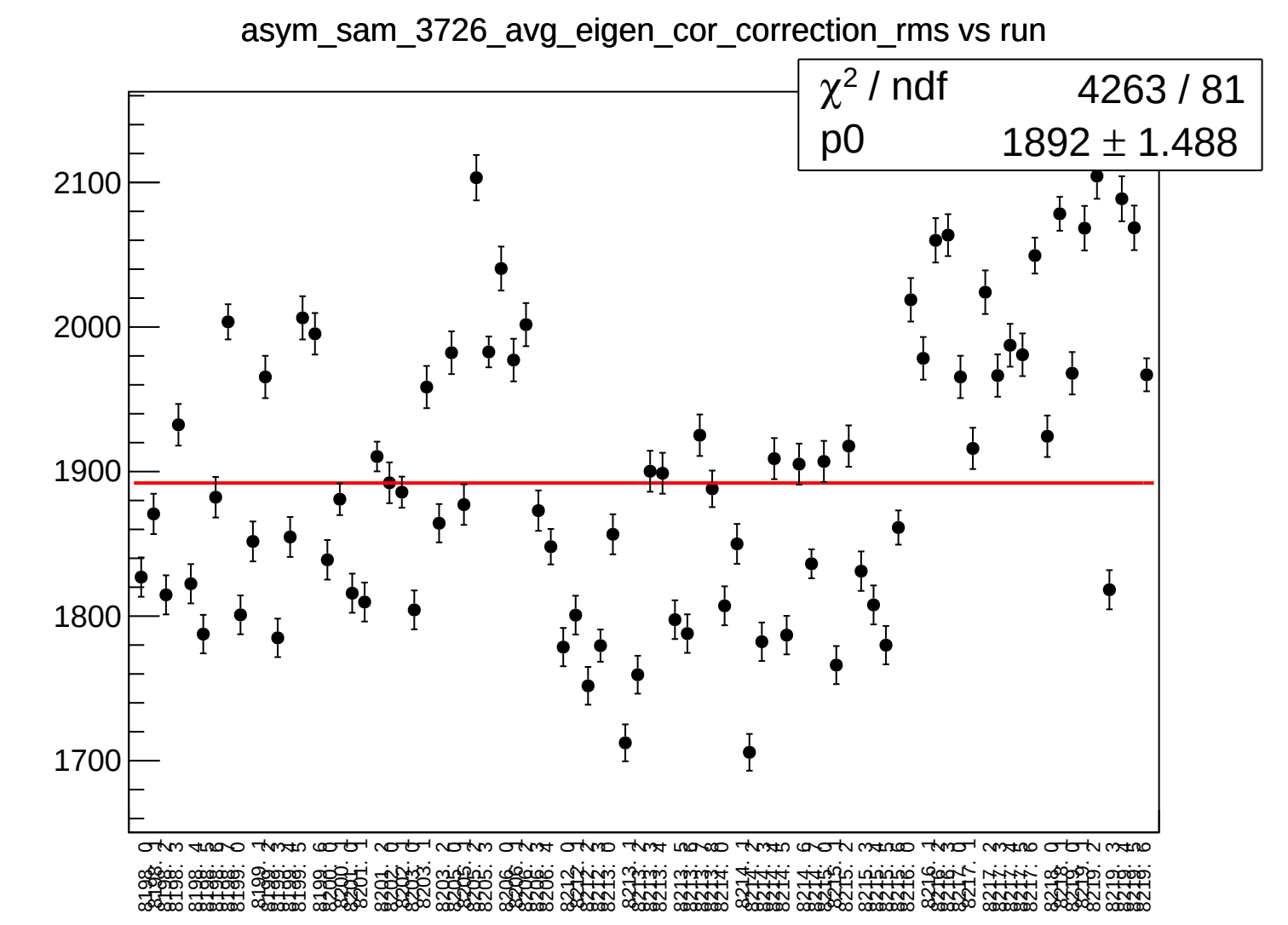

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 4263 / 81
p0 1892 ± 1.488
2100
2000
1900
1800
1700

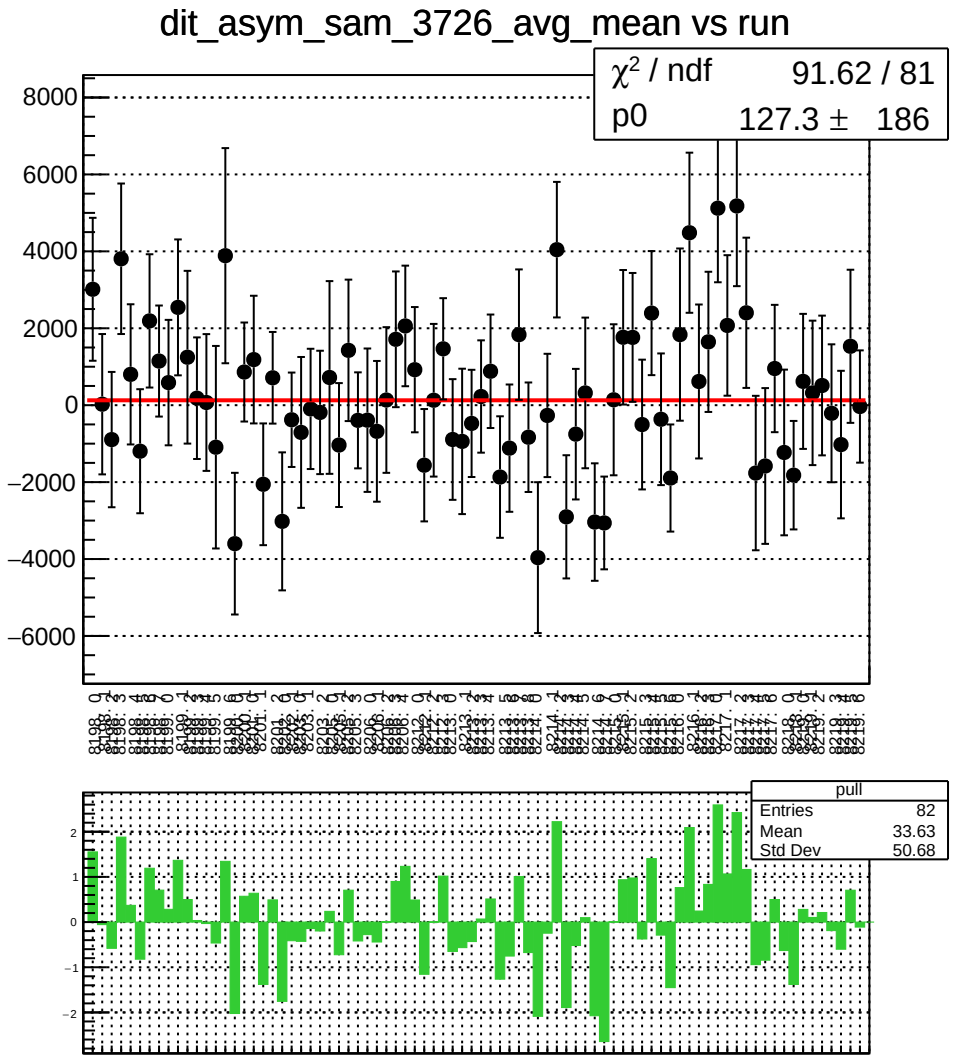

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 89.5 / 81
p0 130.7 ± 171
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean 41.77
Std Dev 74.44
3
2
1
0
−1
−2

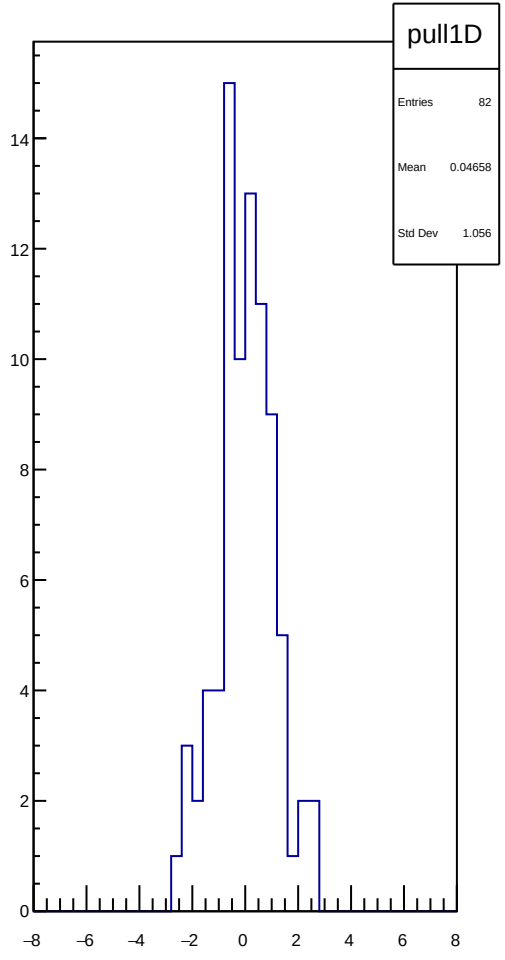

pull1D
Entries 82
Mean 0.02484
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

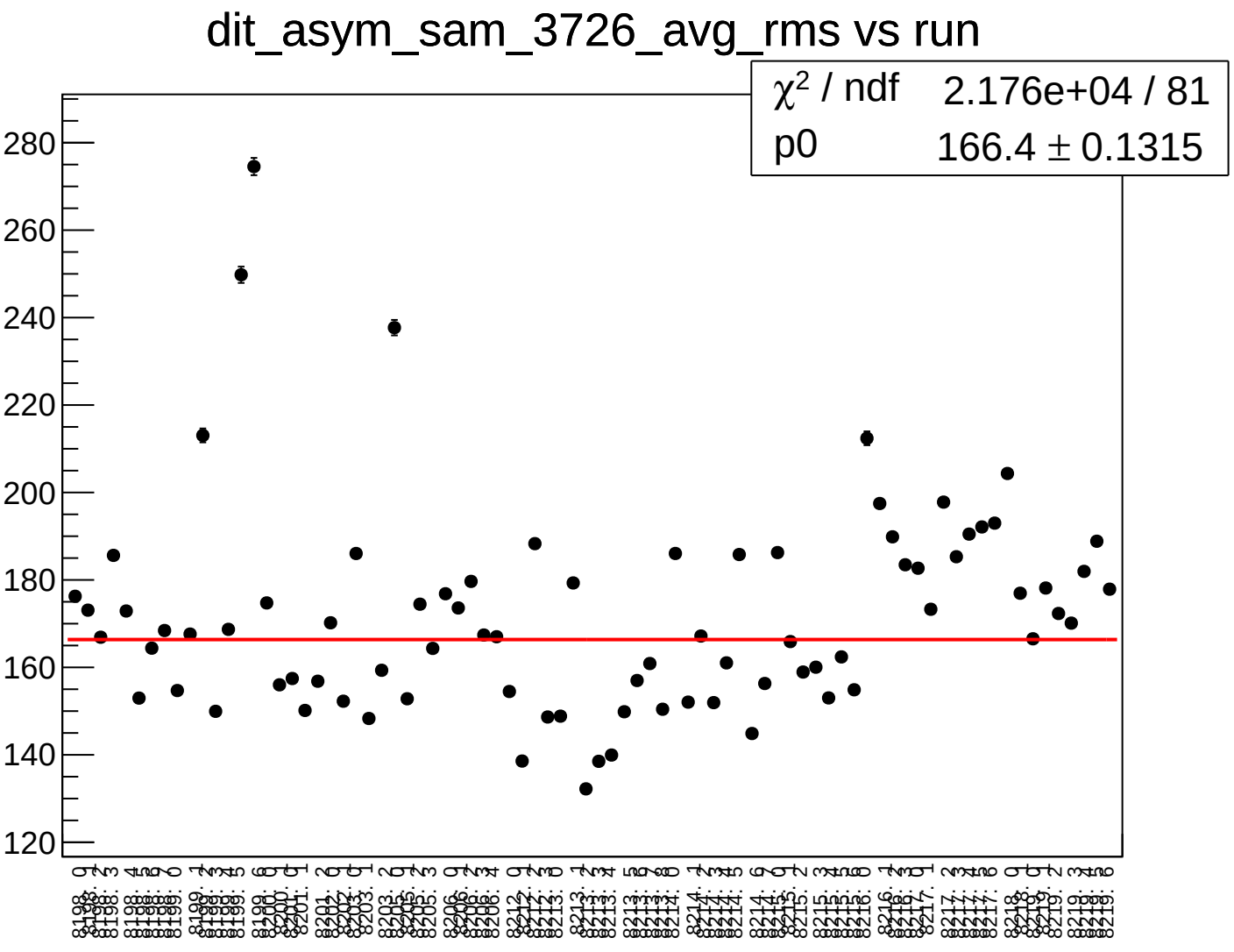

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.779e+04 / 81
p0 153.1 ± 0.1209
240
220
200
180
160
140
120

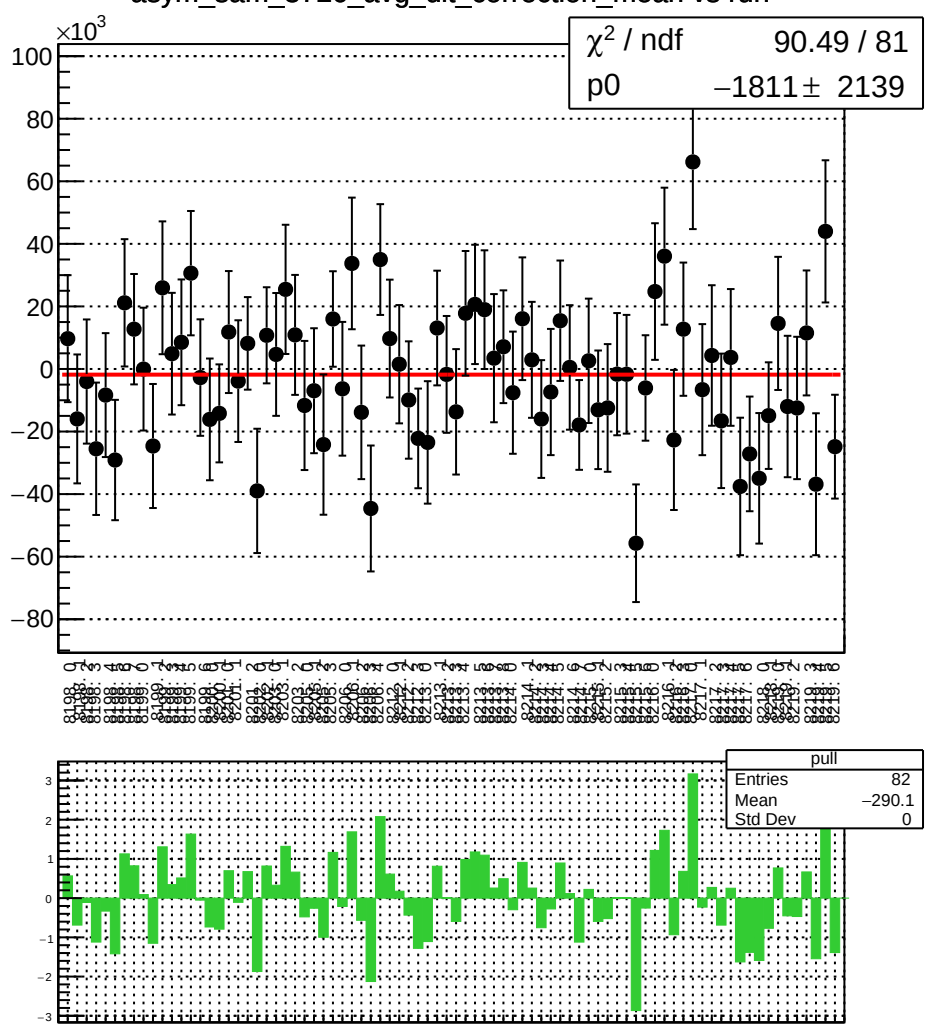

asym_sam_3726_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.05 / 81
p0 −1877 ± 2104
pull
Entries 82
Mean −306
Std Dev 0
pull1D
Entries 82
Mean 0.005497
Std Dev 1.048

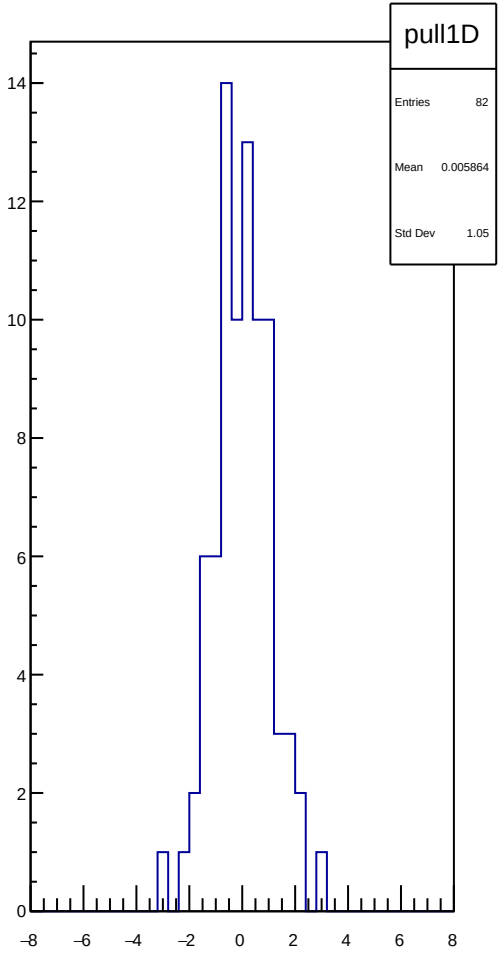

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 4263 / 81
p0 1892 ± 1.488
2100
2000
1900
1800
1700

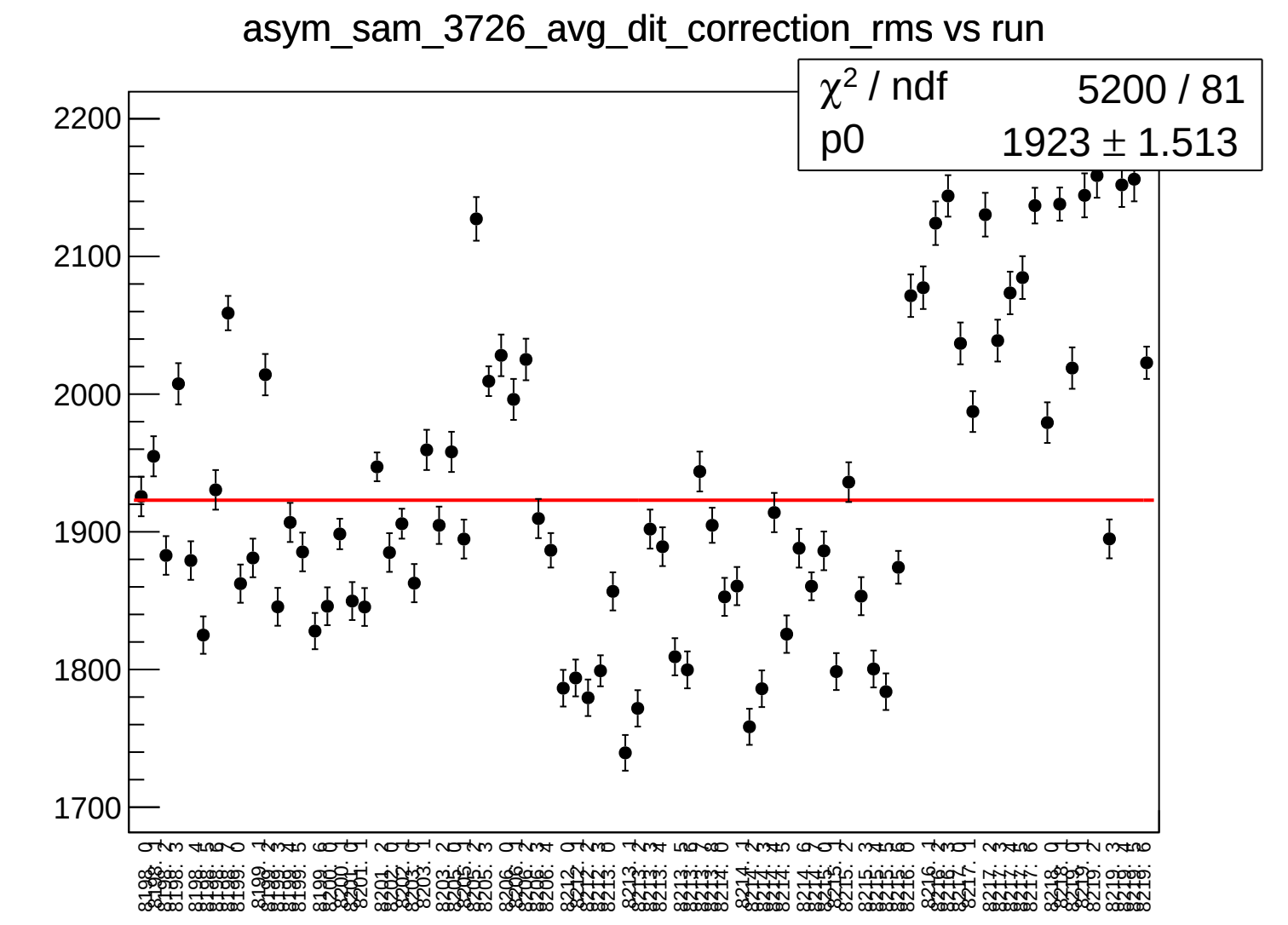

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 91.62 / 81
p0 127.3 ± 186
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean 33.63
Std Dev 50.68
2
1
0
−1
−2

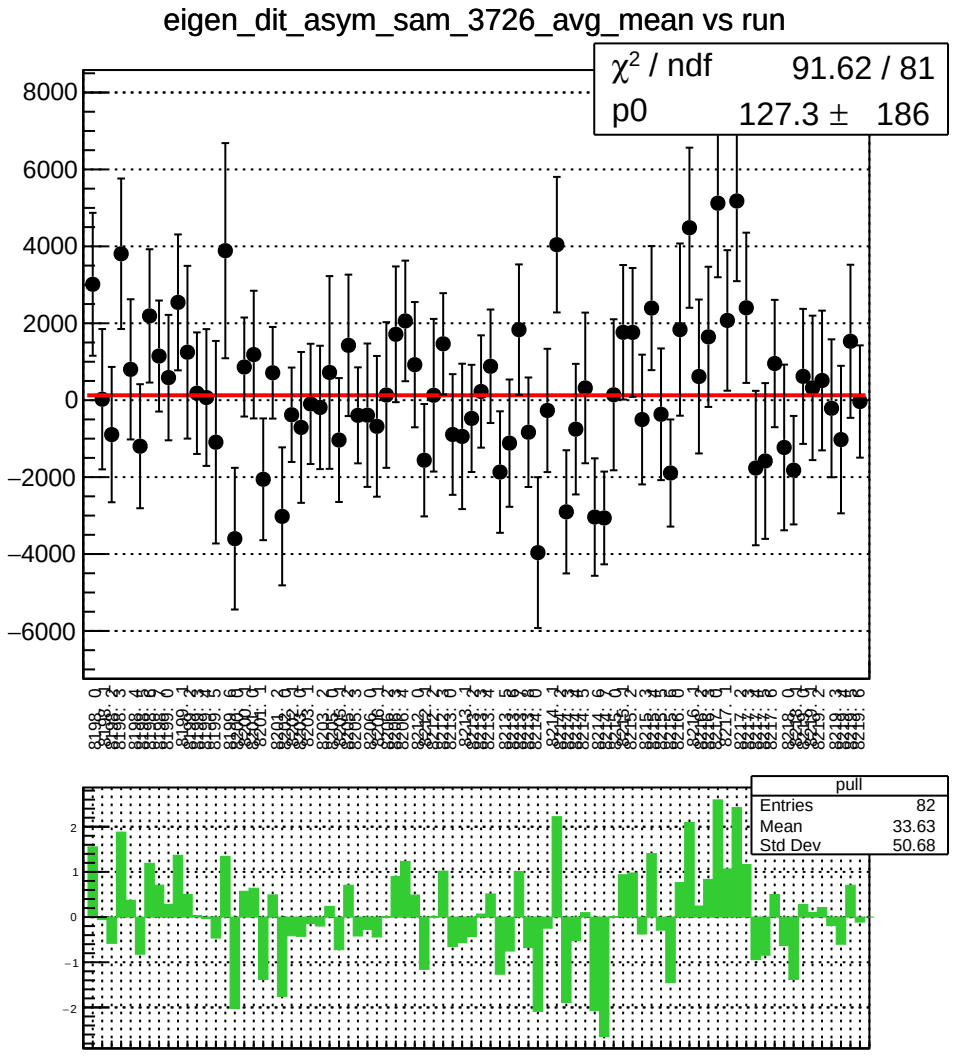

pull1D
Entries 82
Mean 0.04658
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

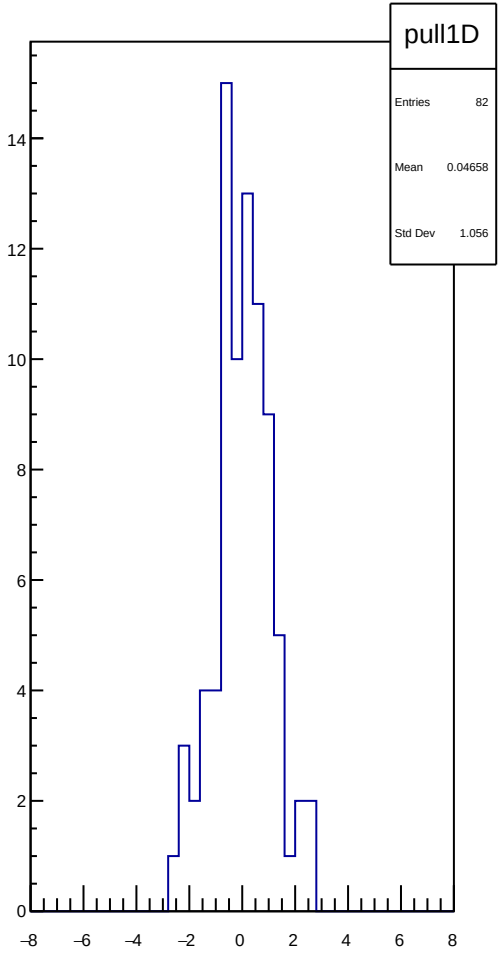

dit_asym_sam_3726_avg_rms vs run
$\chi^2$ / ndf 2.176e+04 / 81
p0 166.4 ± 0.1315
280
260
240
220
200
180
160
140
120

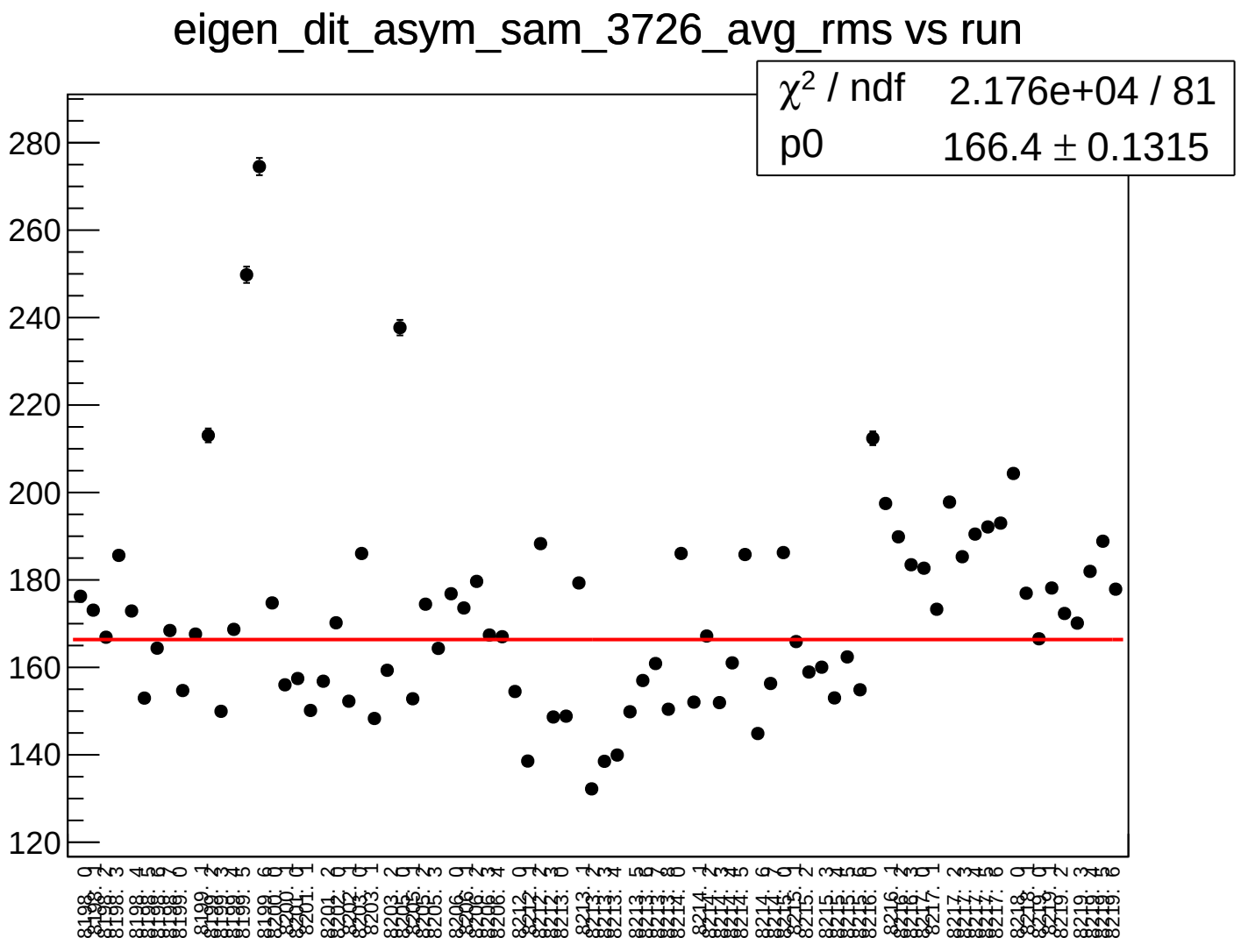

asym_sam_3726_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.49 / 81
p0 −1811 ± 2139
pull
Entries 82
Mean −290.1
Std Dev 0

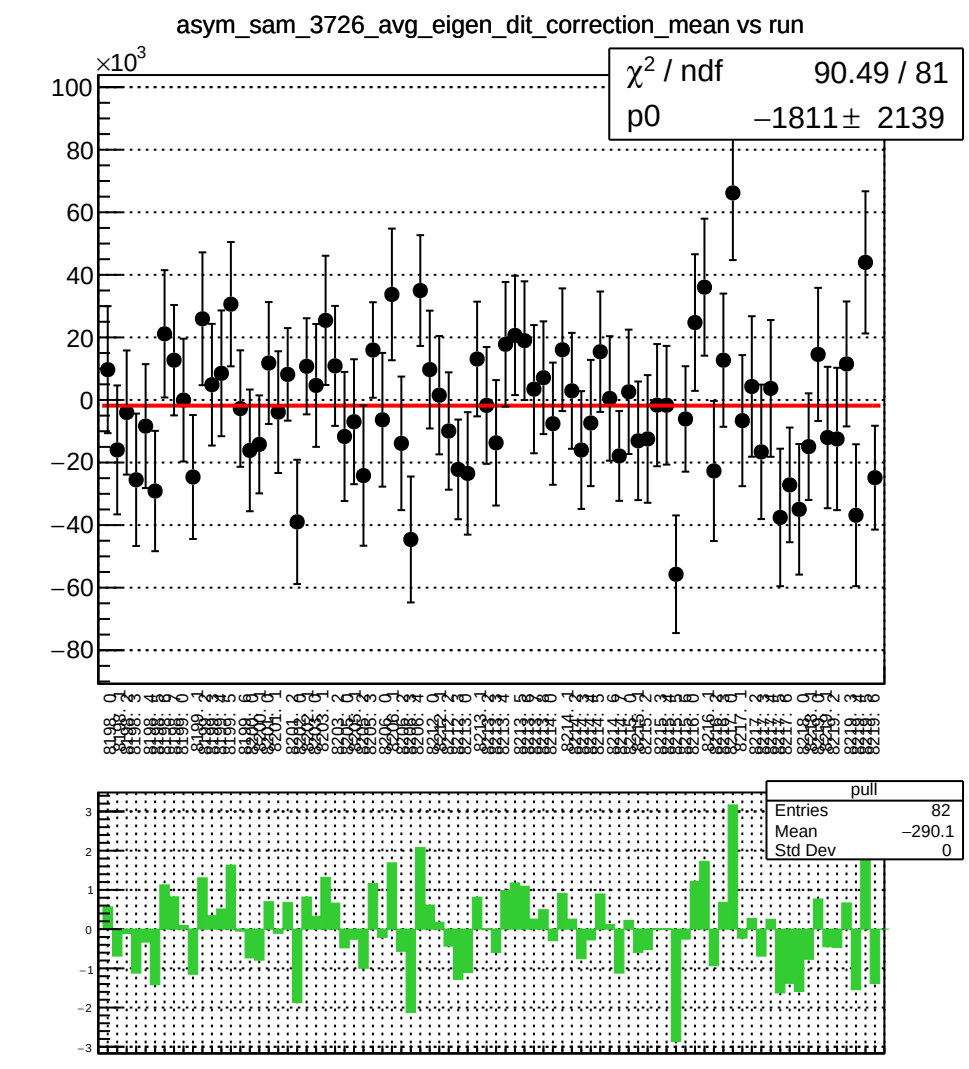

pull1D
Entries 82
Mean 0.005864
Std Dev 1.05

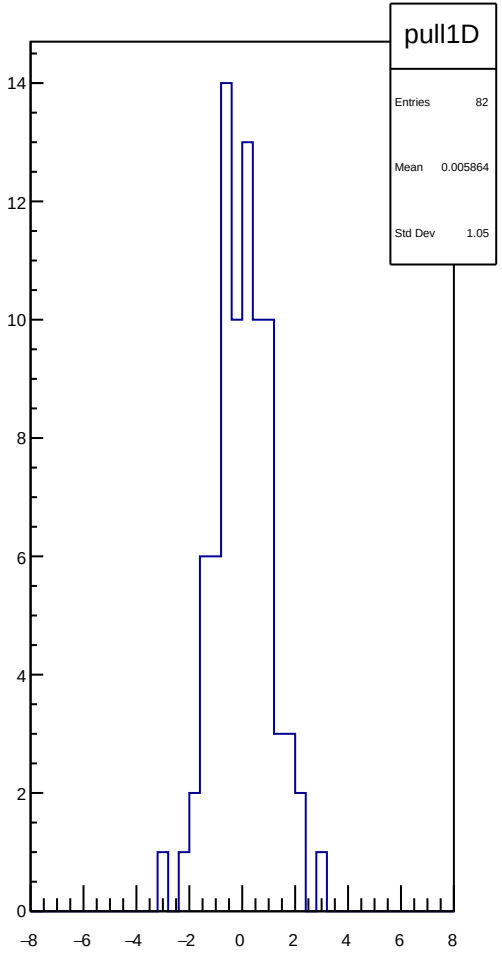

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 5200 / 81
p0 1923 ± 1.513
2200
2100
2000
1900
1800
1700

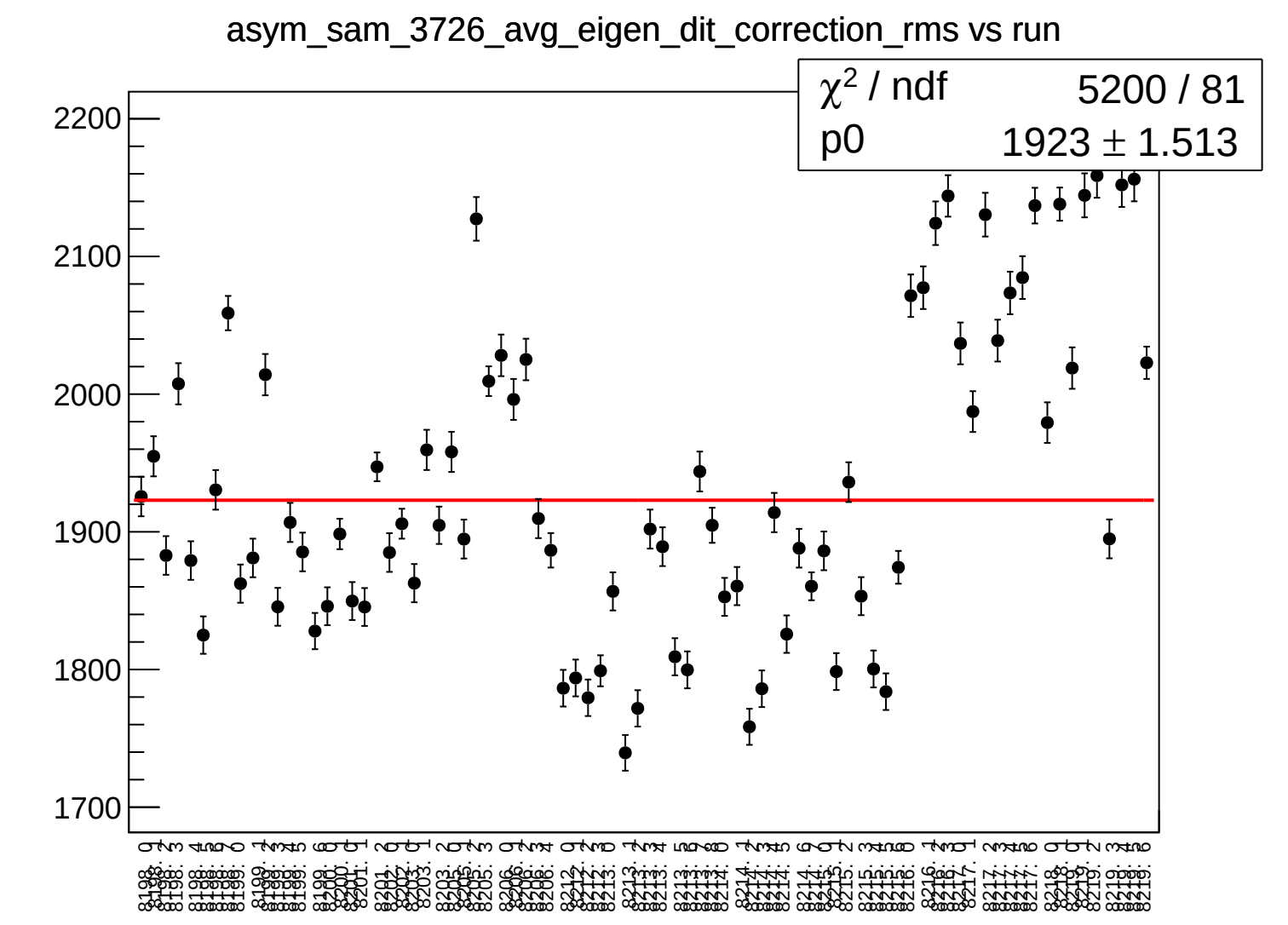

eigen_dit_asym_sam_3726_avg_mean vs run
$\chi^2$ / ndf 91.62 / 81
p0 127.3 ± 186
pull
Entries 82
Mean 33.63
Std Dev 50.68

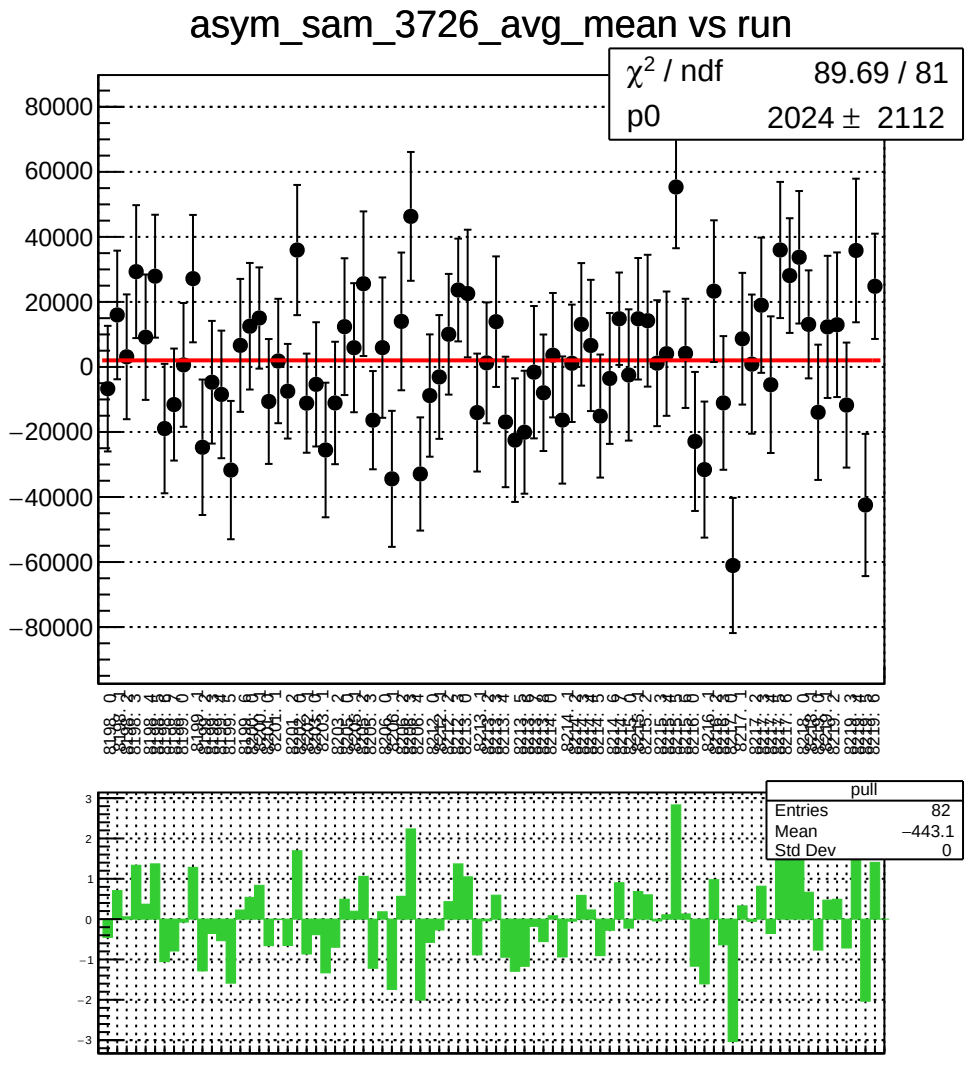

pull1D
Entries 82
Mean 0.04658
Std Dev 1.056

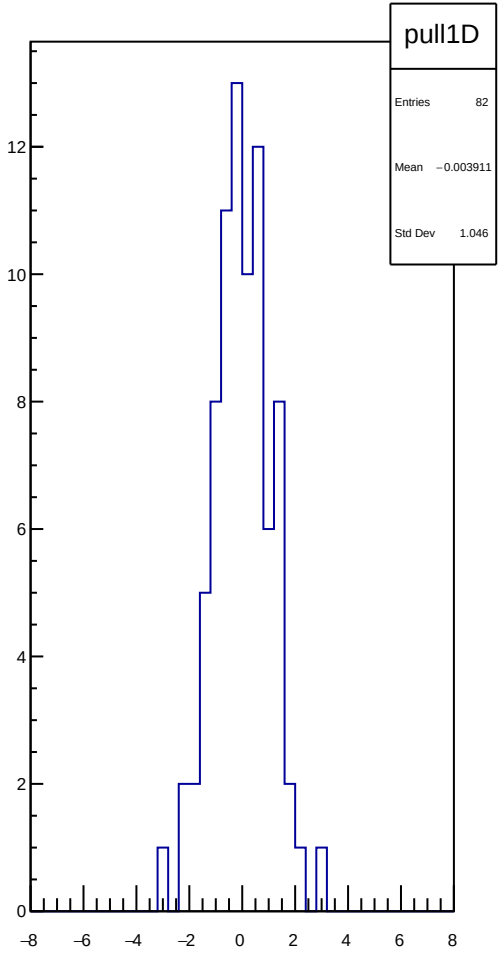

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.176e+04 / 81
p0 166.4 ± 0.1315
280
260
240
220
200
180
160
140
120

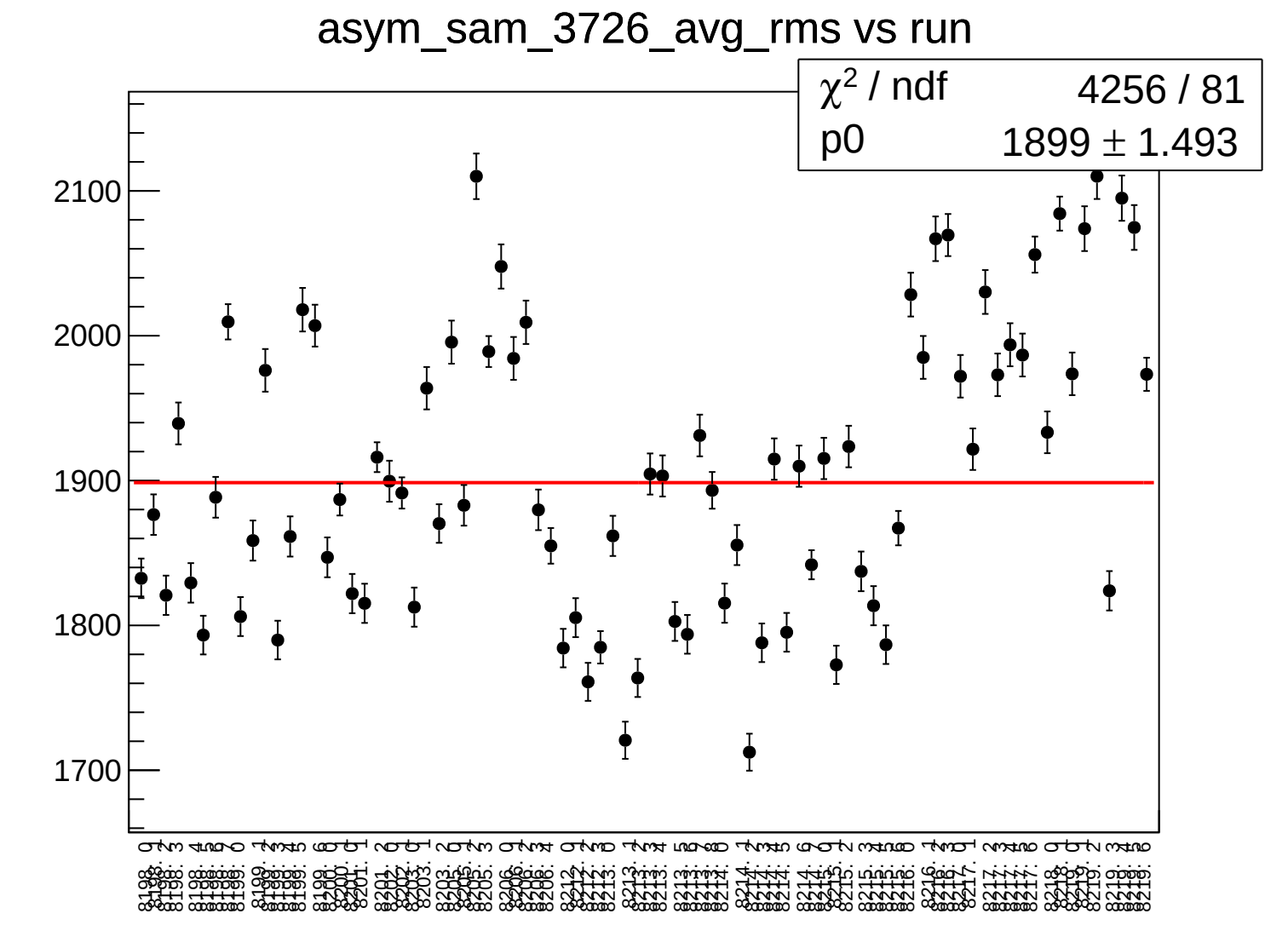

asym_sam_3726_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.49 / 81
p0 −1811 ± 2139
pull
Entries 82
Mean −290.1
Std Dev 0

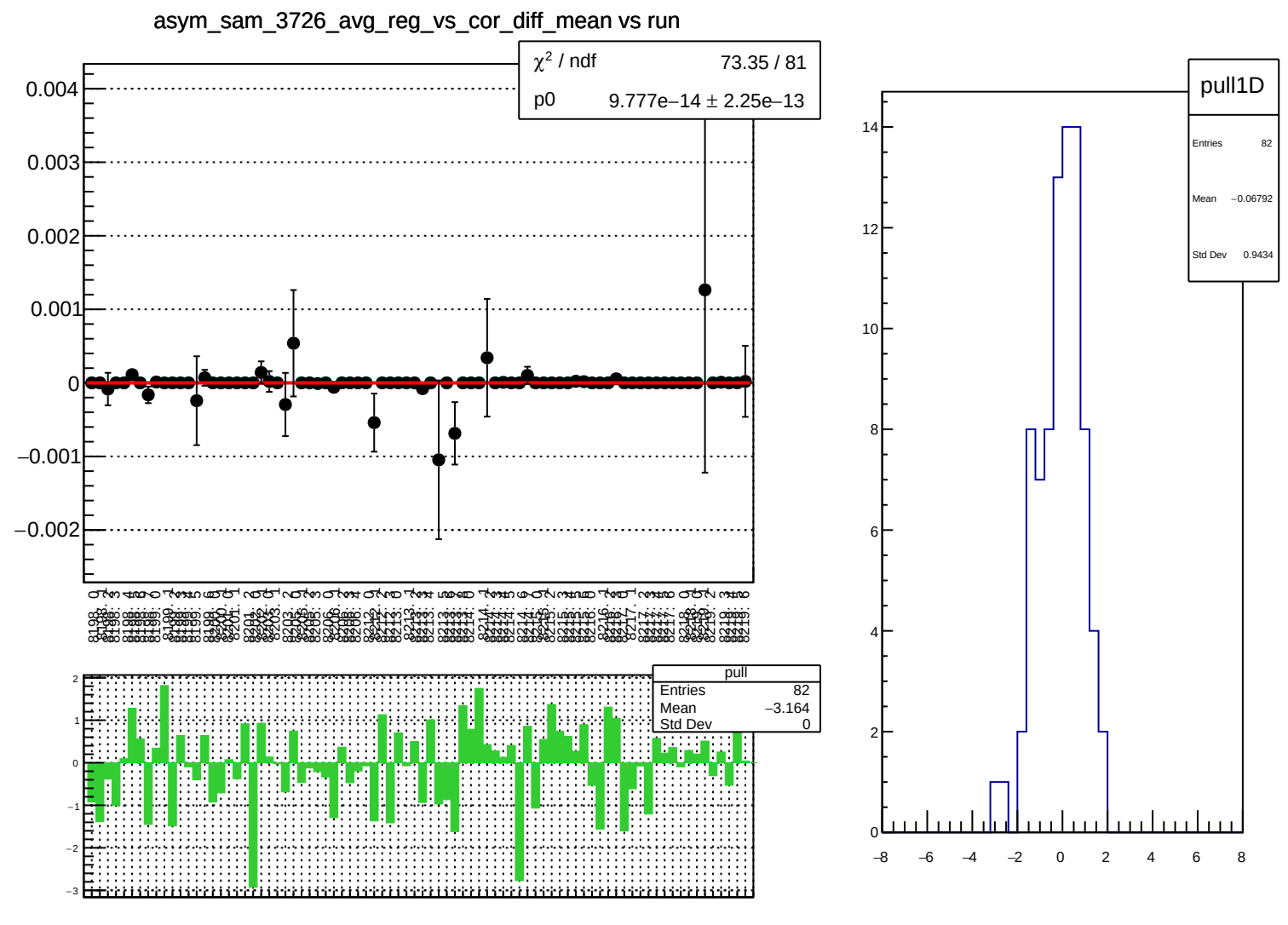

pull1D
Entries 82
Mean 0.005864
Std Dev 1.05

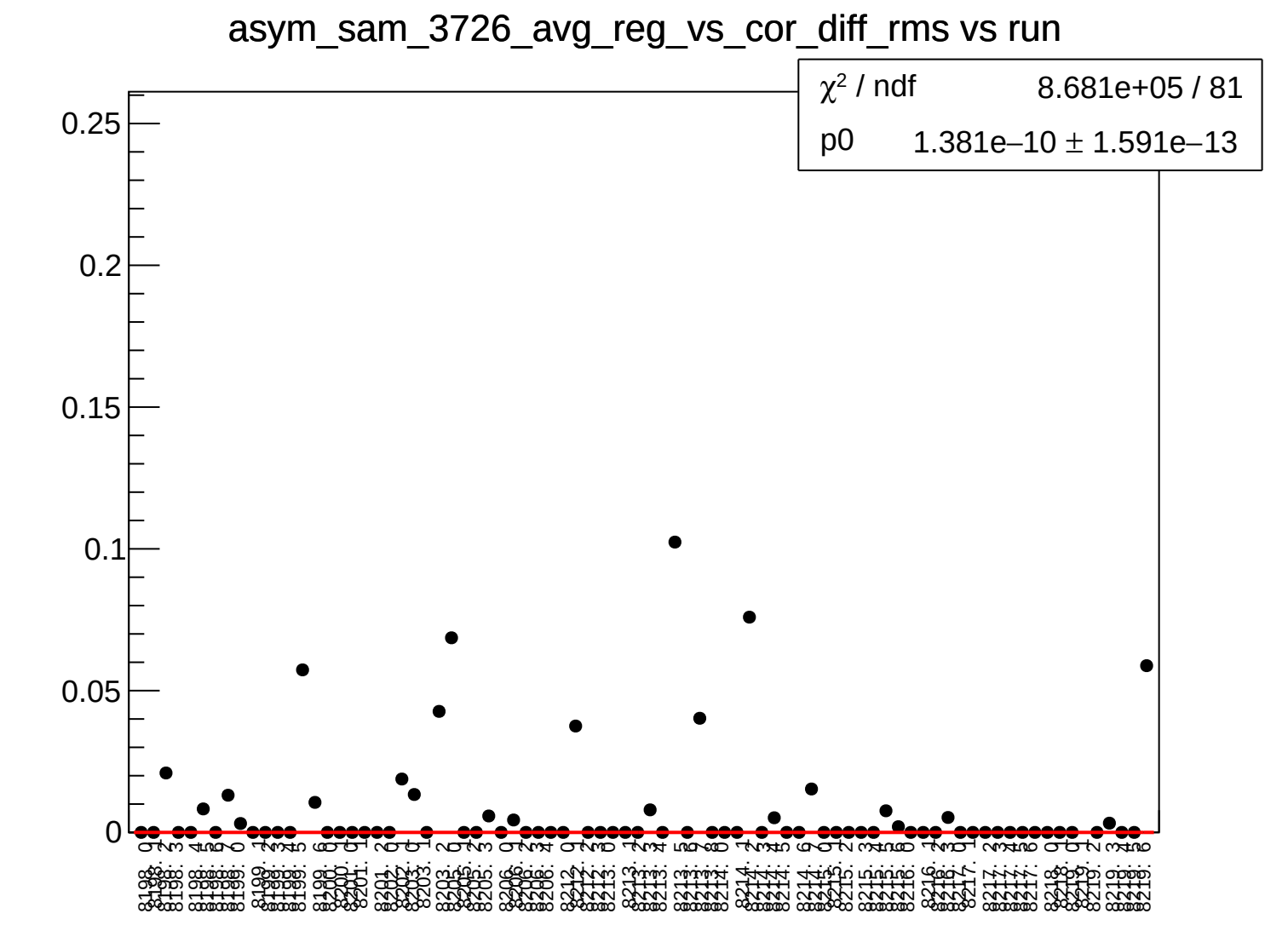

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 5200 / 81
p0 1923 ± 1.513
2200
2100
2000
1900
1800
1700

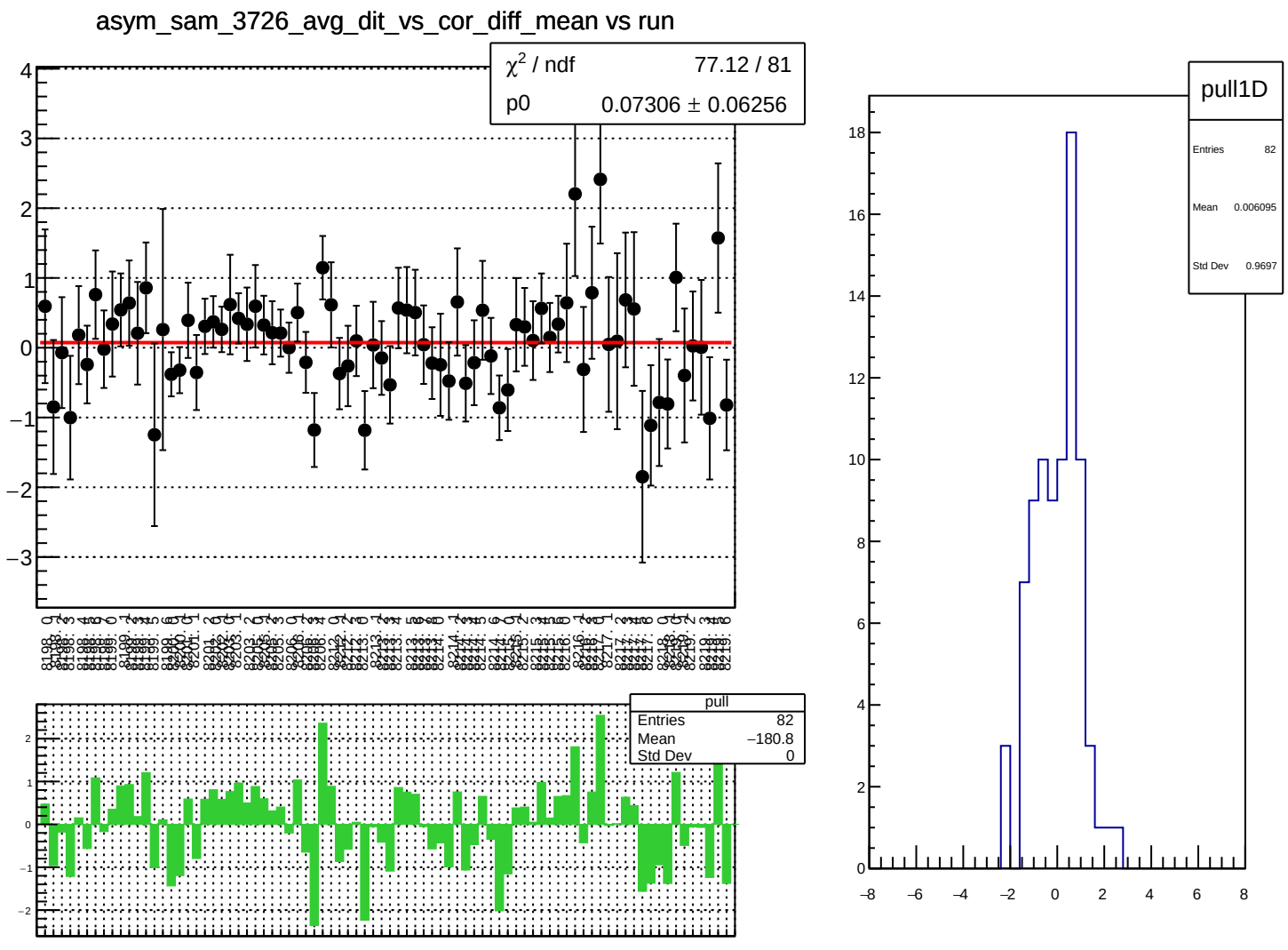

asym_sam_3726_avg_mean vs run
χ² / ndf 89.69 / 81
p0 2024 ± 2112
pull
Entries 82
Mean −443.1
Std Dev 0

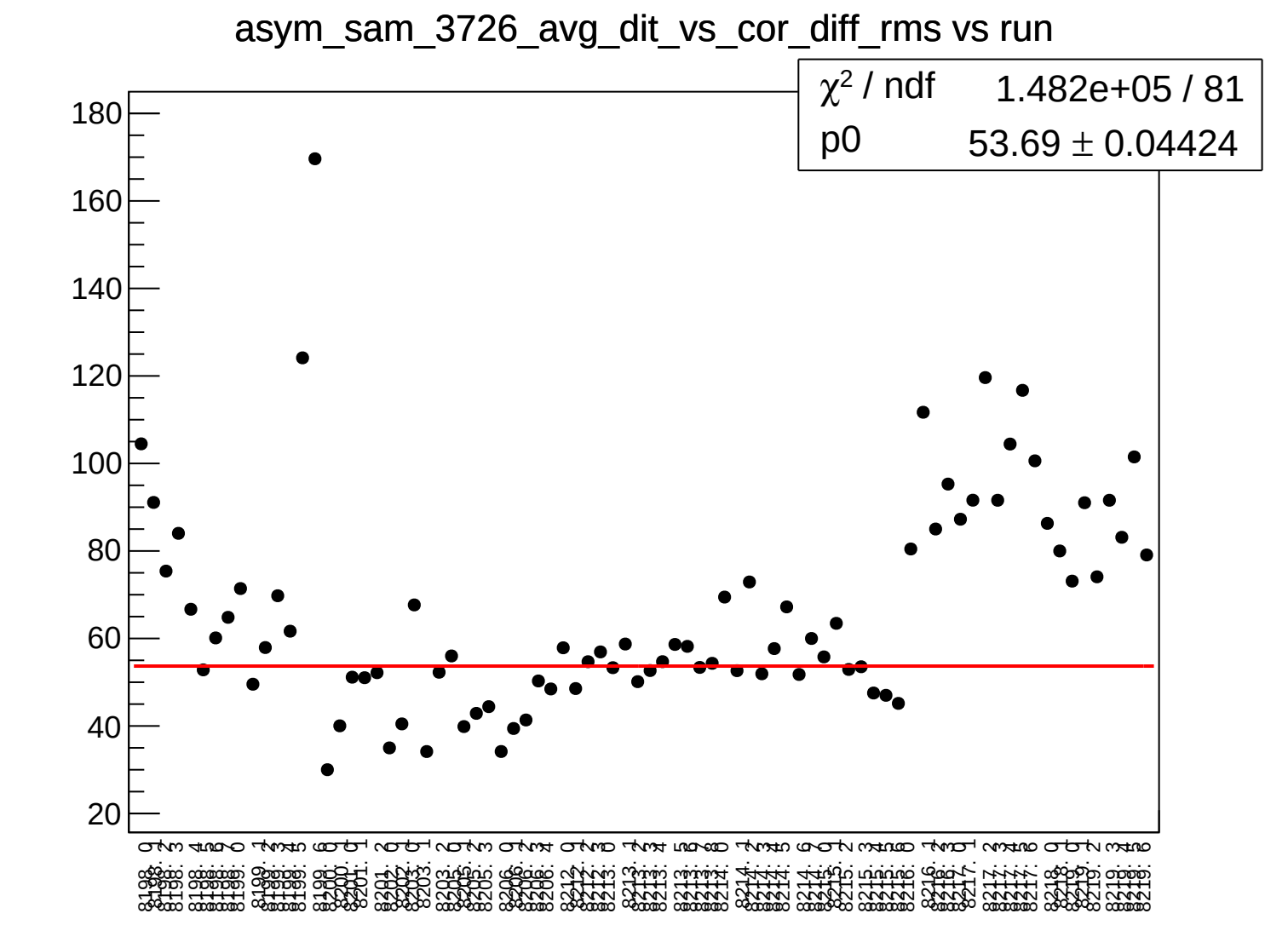

pull1D
Entries 82
Mean −0.003911
Std Dev 1.046

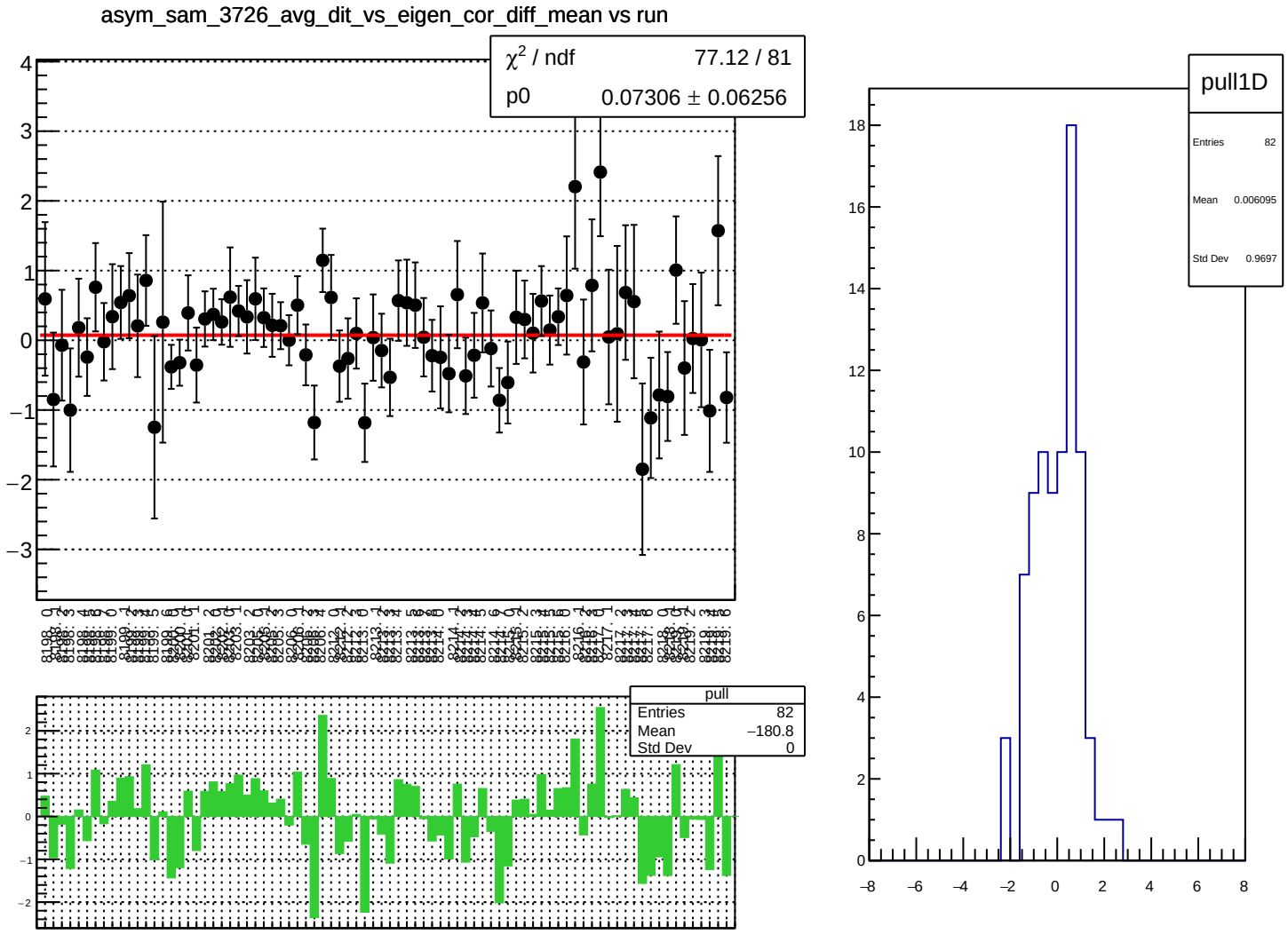

asym_sam_3726_avg_rms vs run
χ² / ndf 4256 / 81
p0 1899 ± 1.493
2100
2000
1900
1800
1700

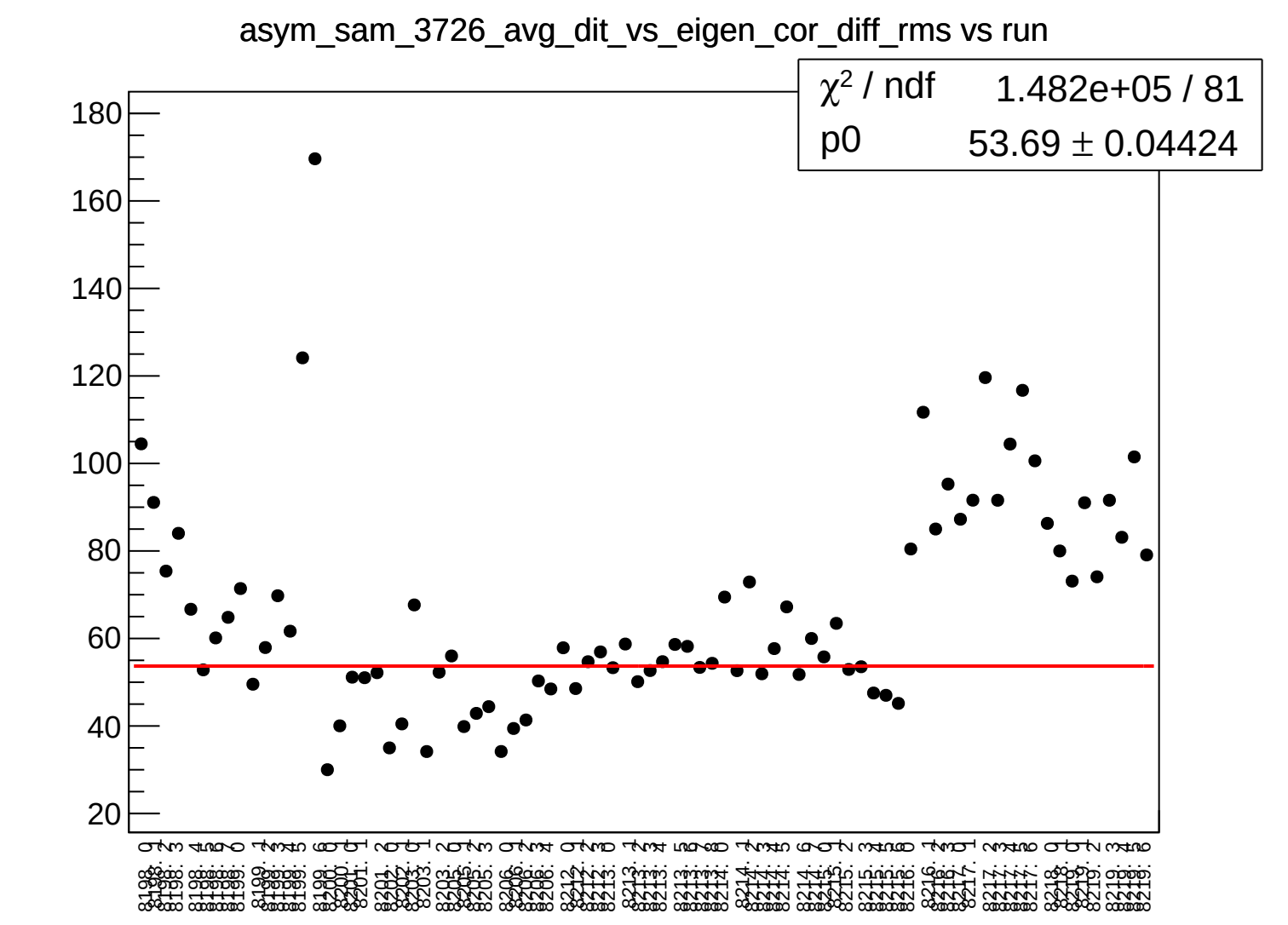

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.35 / 81
p0 9.777e−14 ± 2.25e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 82
Mean −3.164
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.06792
Std Dev 0.9434
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

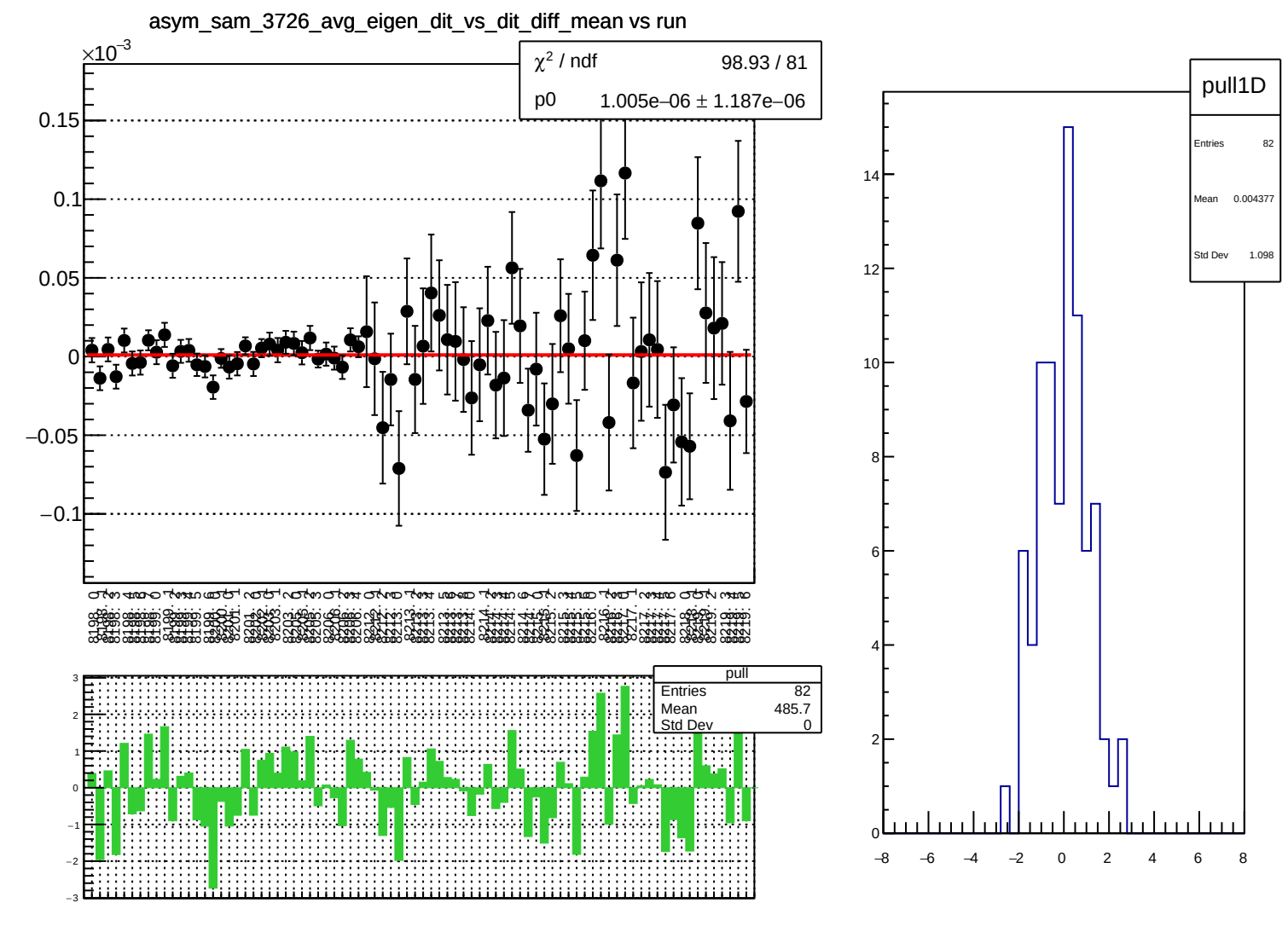

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.681e+05 / 81
p0 1.381e−10 ± 1.591e−13
0.25
0.2
0.15
0.1
0.05
0

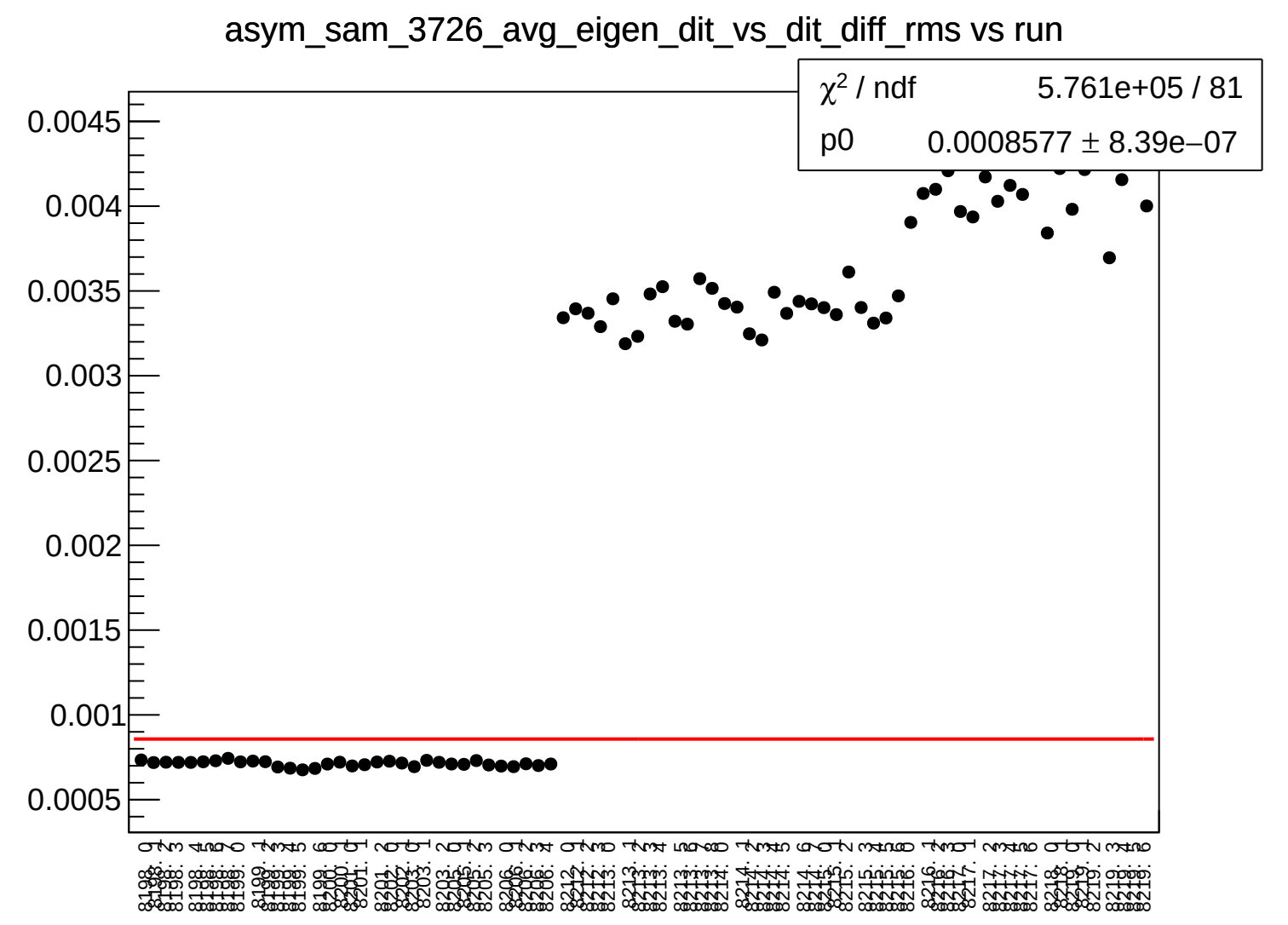

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.12 / 81
p0 0.07306 ± 0.06256
pull
Entries 82
Mean −180.8
Std Dev 0
pull1D
Entries 82
Mean 0.006095
Std Dev 0.9697

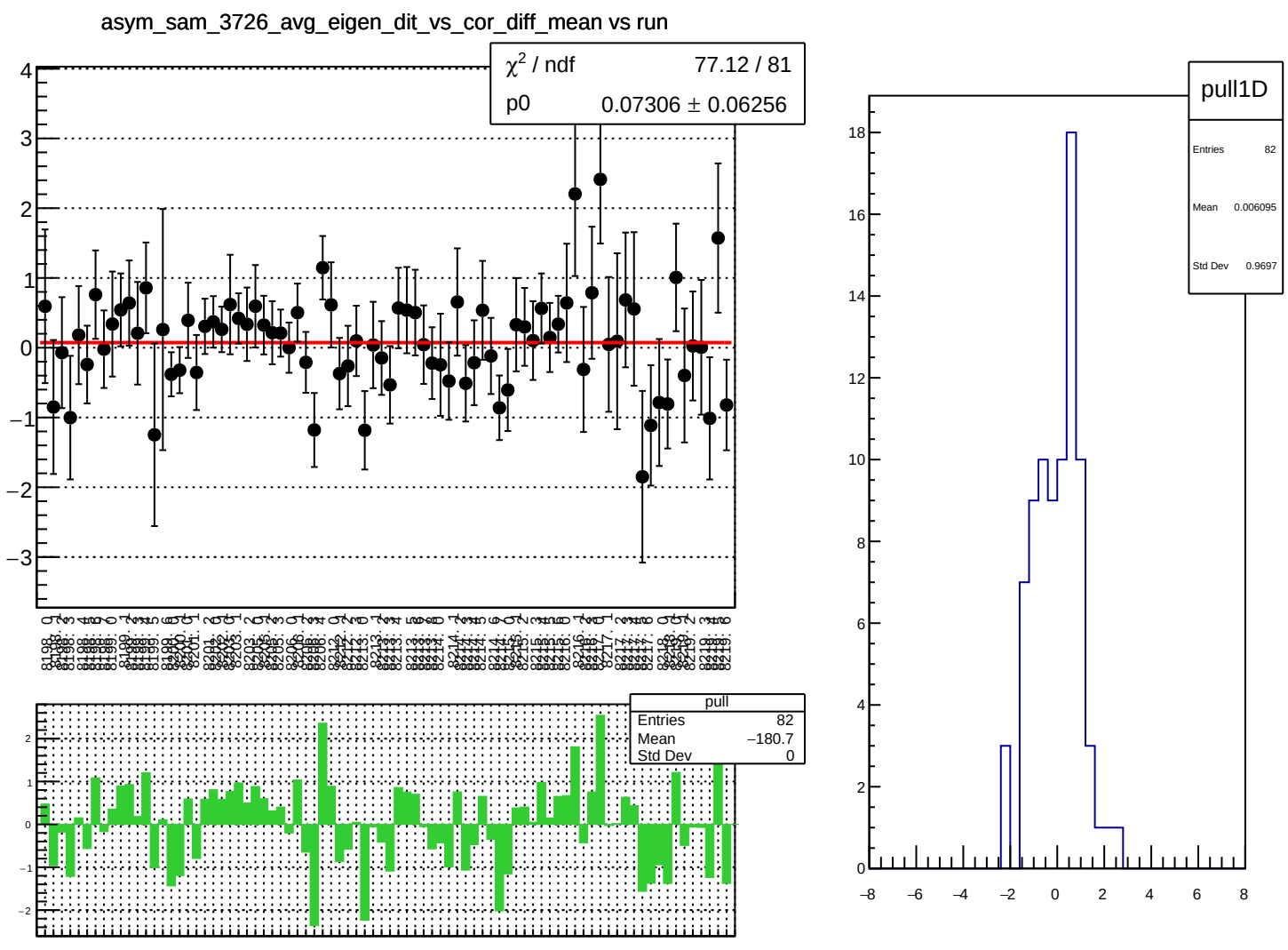

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.482e+05 / 81
p0 53.69 ± 0.04424
180
160
140
120
100
80
60
40
20

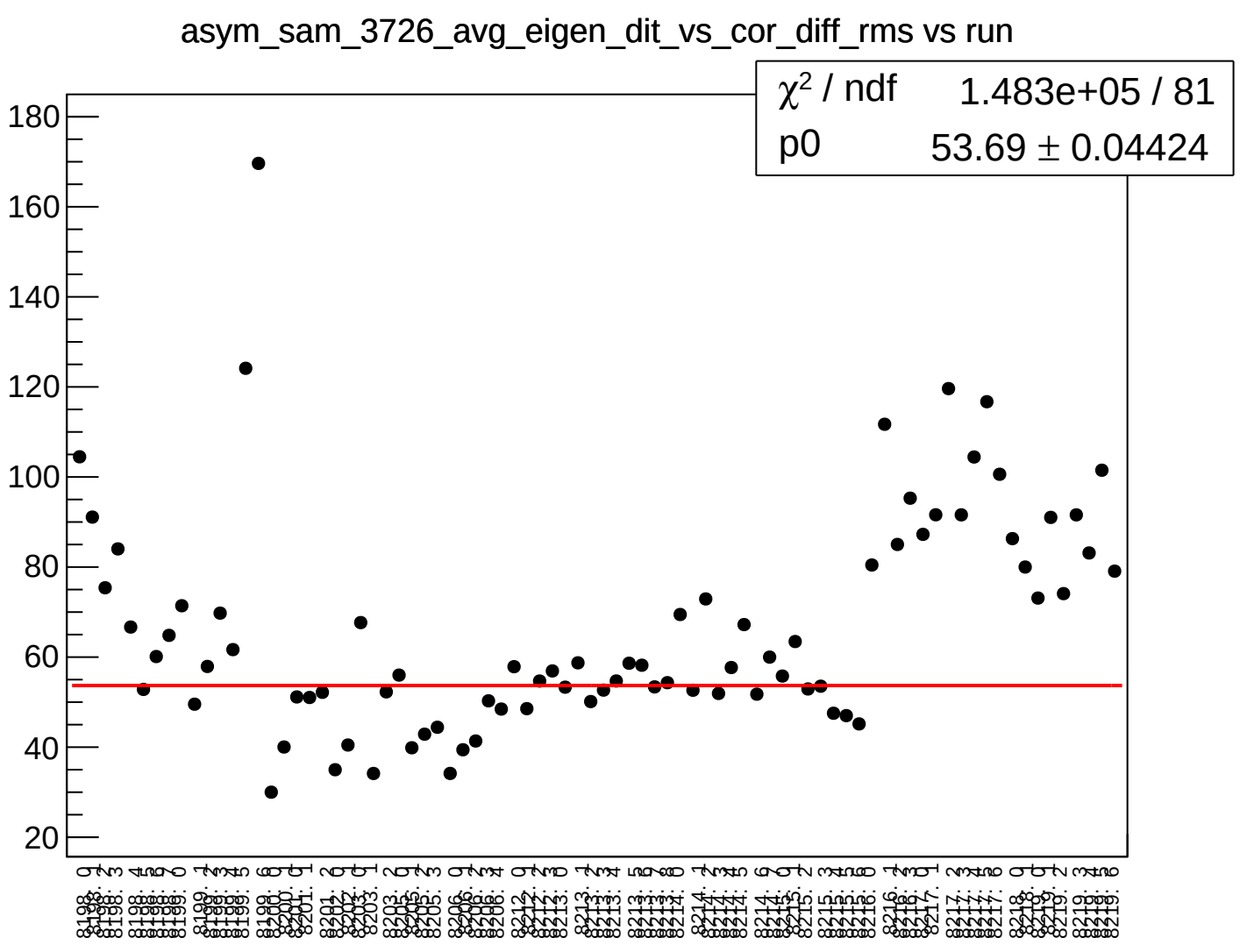

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.12 / 81
p0 0.07306 ± 0.06256
pull
Entries 82
Mean −180.8
Std Dev 0
pull1D
Entries 82
Mean 0.006095
Std Dev 0.9697

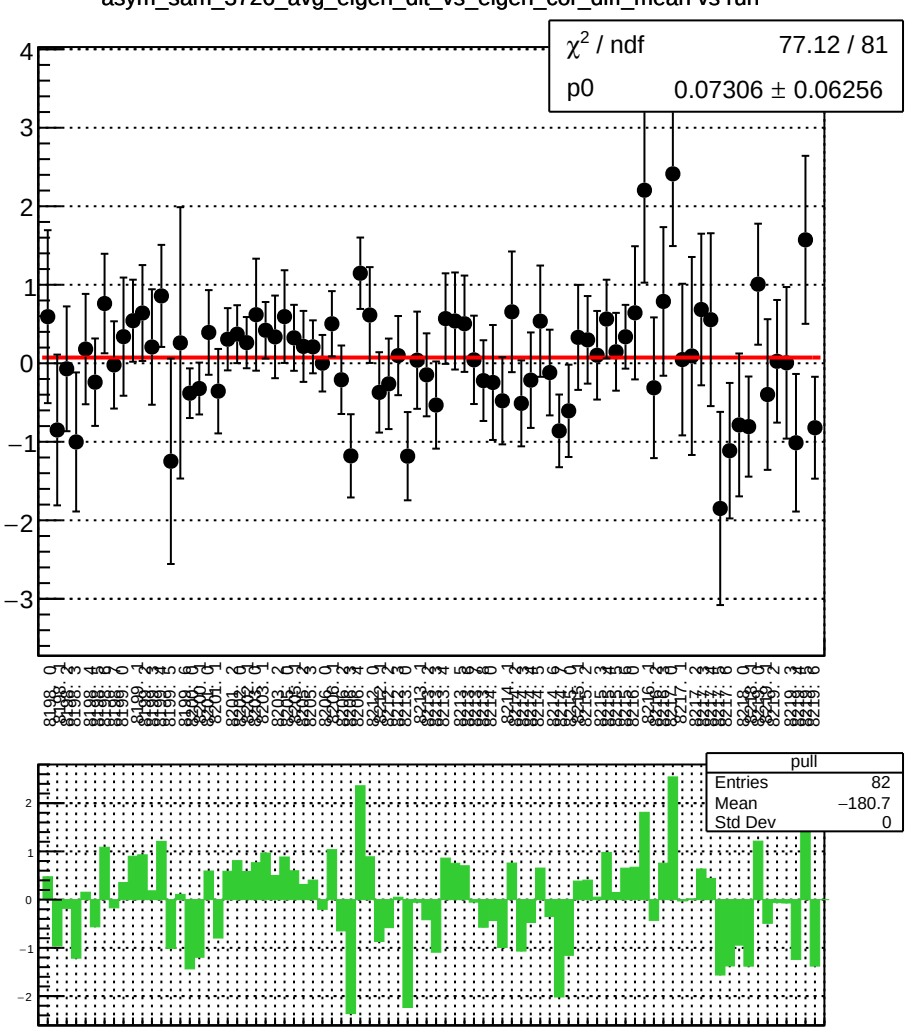

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.482e+05 / 81
p0 53.69 ± 0.04424
180
160
140
120
100
80
60
40
20

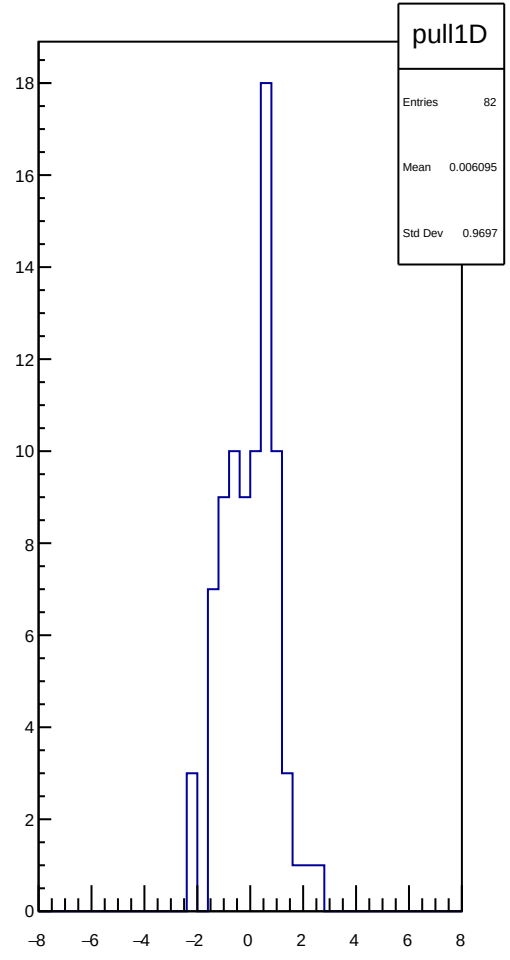

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.93 / 81
p0 1.005e−06 ± 1.187e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 82
Mean 485.7
Std Dev 0
pull1D
Entries 82
Mean 0.004377
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

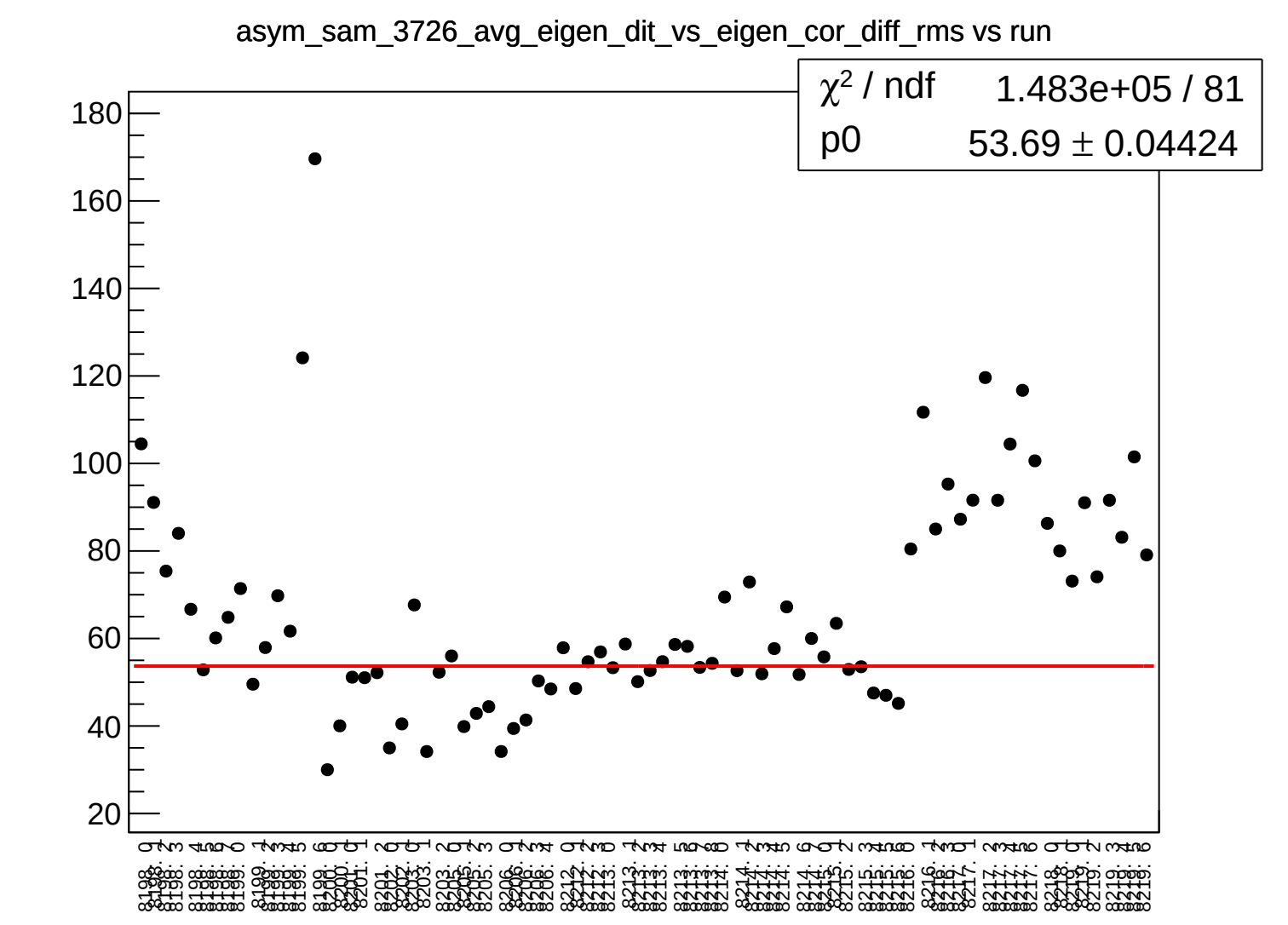

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.761e+05 / 81
p0 0.0008577 ± 8.39e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

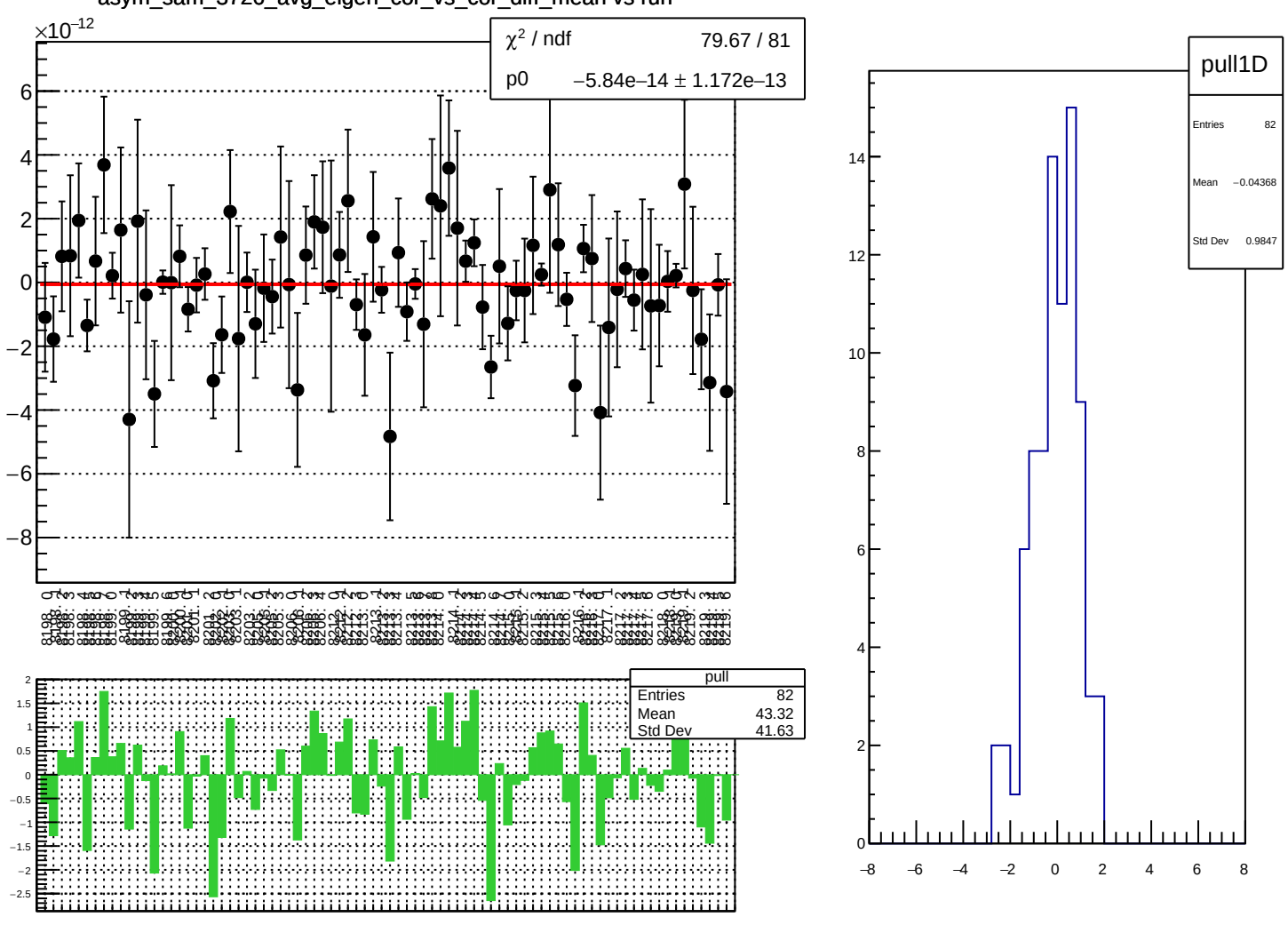

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.12 / 81
p0 0.07306 ± 0.06256
pull
Entries 82
Mean −180.7
Std Dev 0
pull1D
Entries 82
Mean 0.006095
Std Dev 0.9697

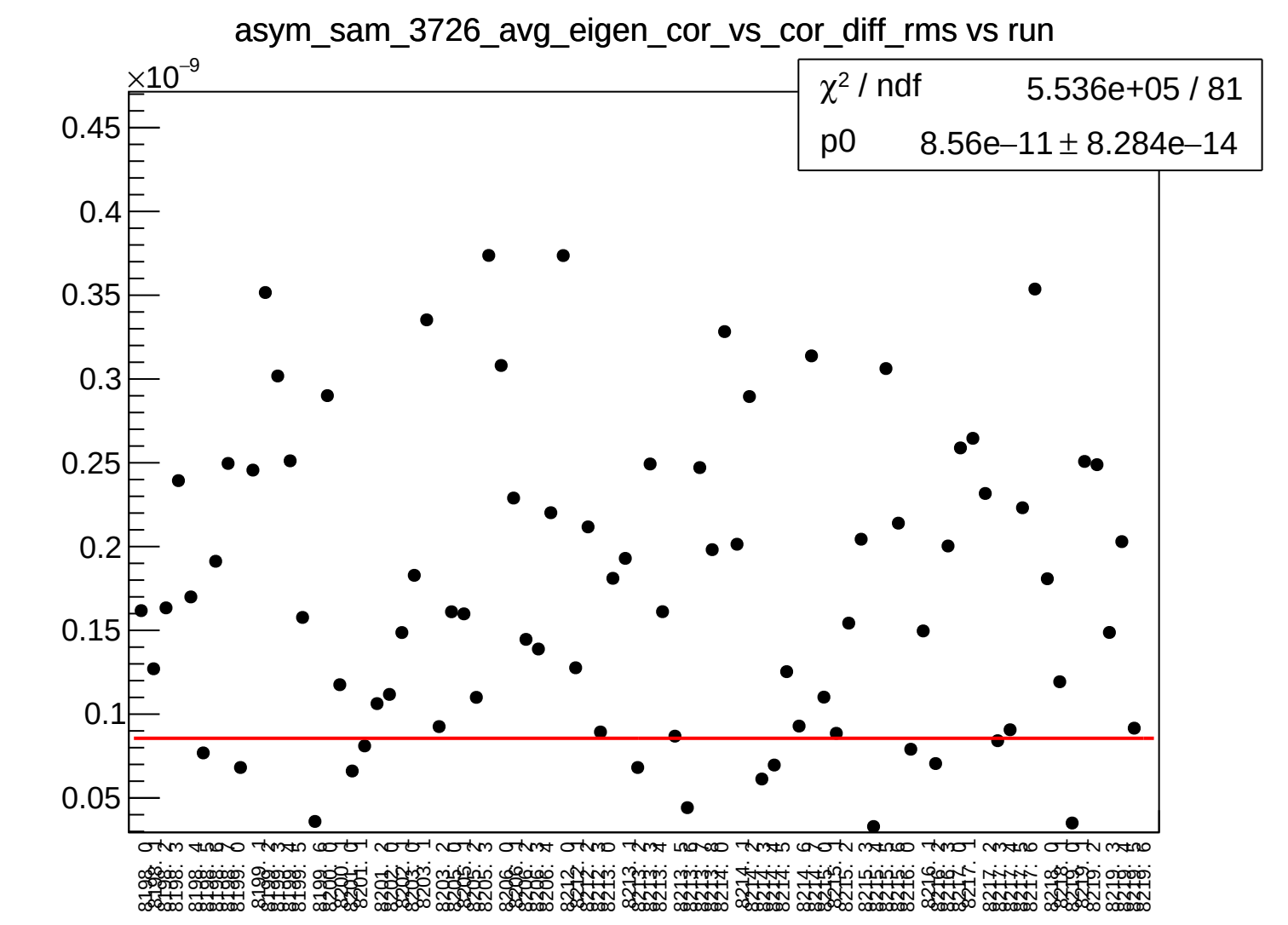

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.483e+05 / 81
p0 53.69 ± 0.04424
180
160
140
120
100
80
60
40
20

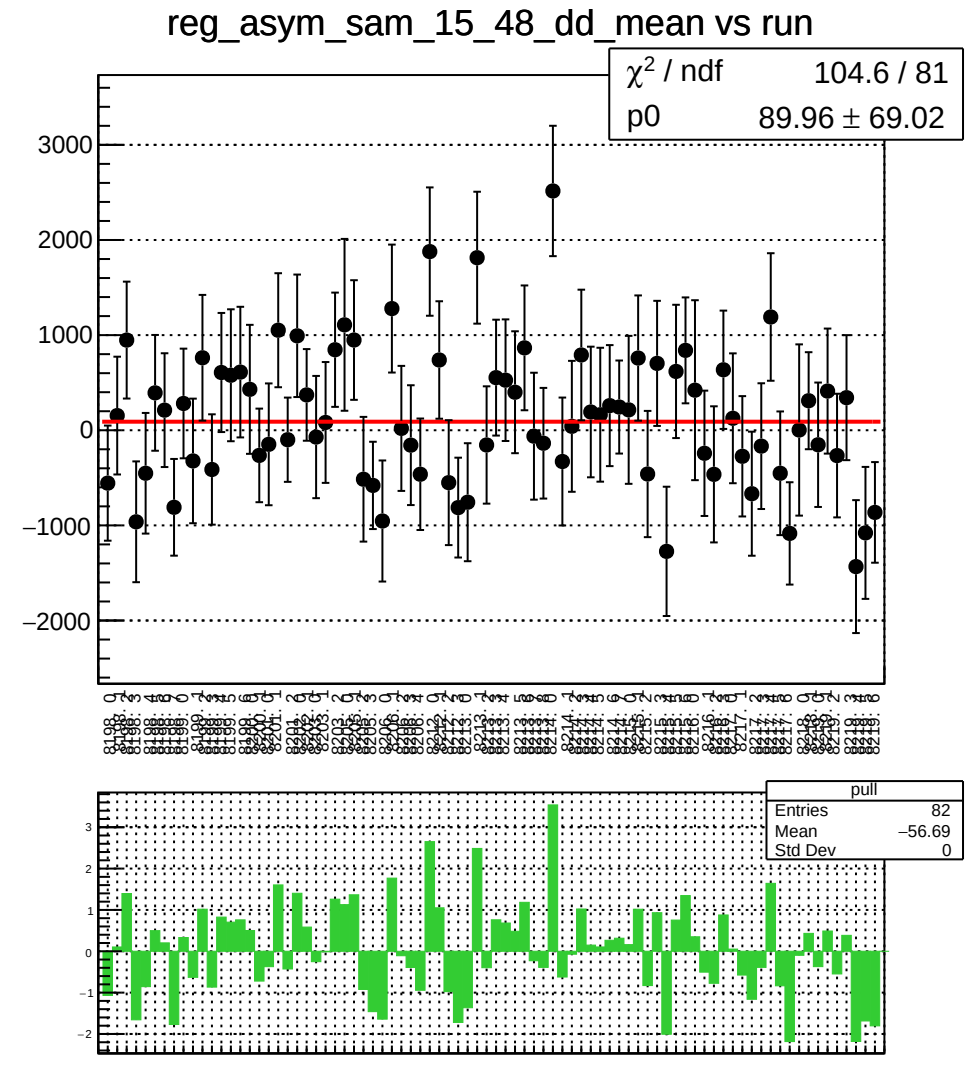

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.12 / 81
p0 0.07306 ± 0.06256
pull
Entries 82
Mean −180.7
Std Dev 0

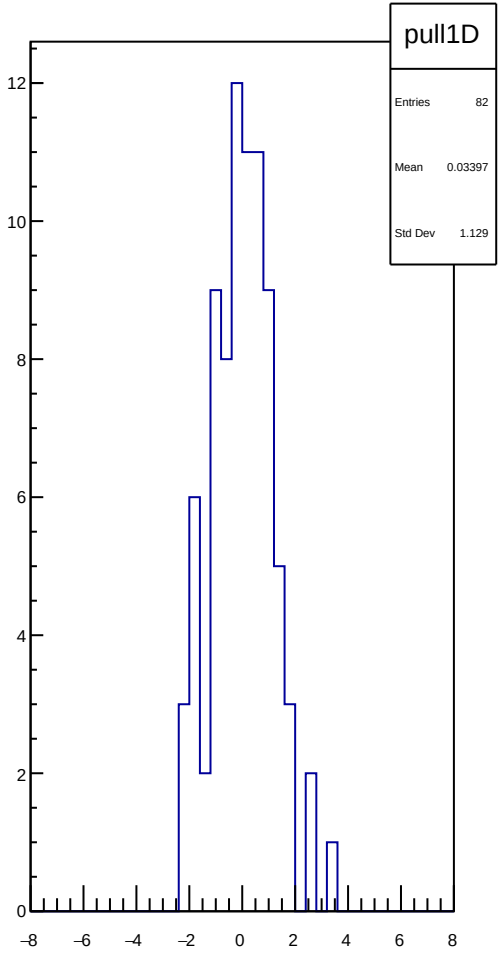

pull1D
Entries 82
Mean 0.006095
Std Dev 0.9697

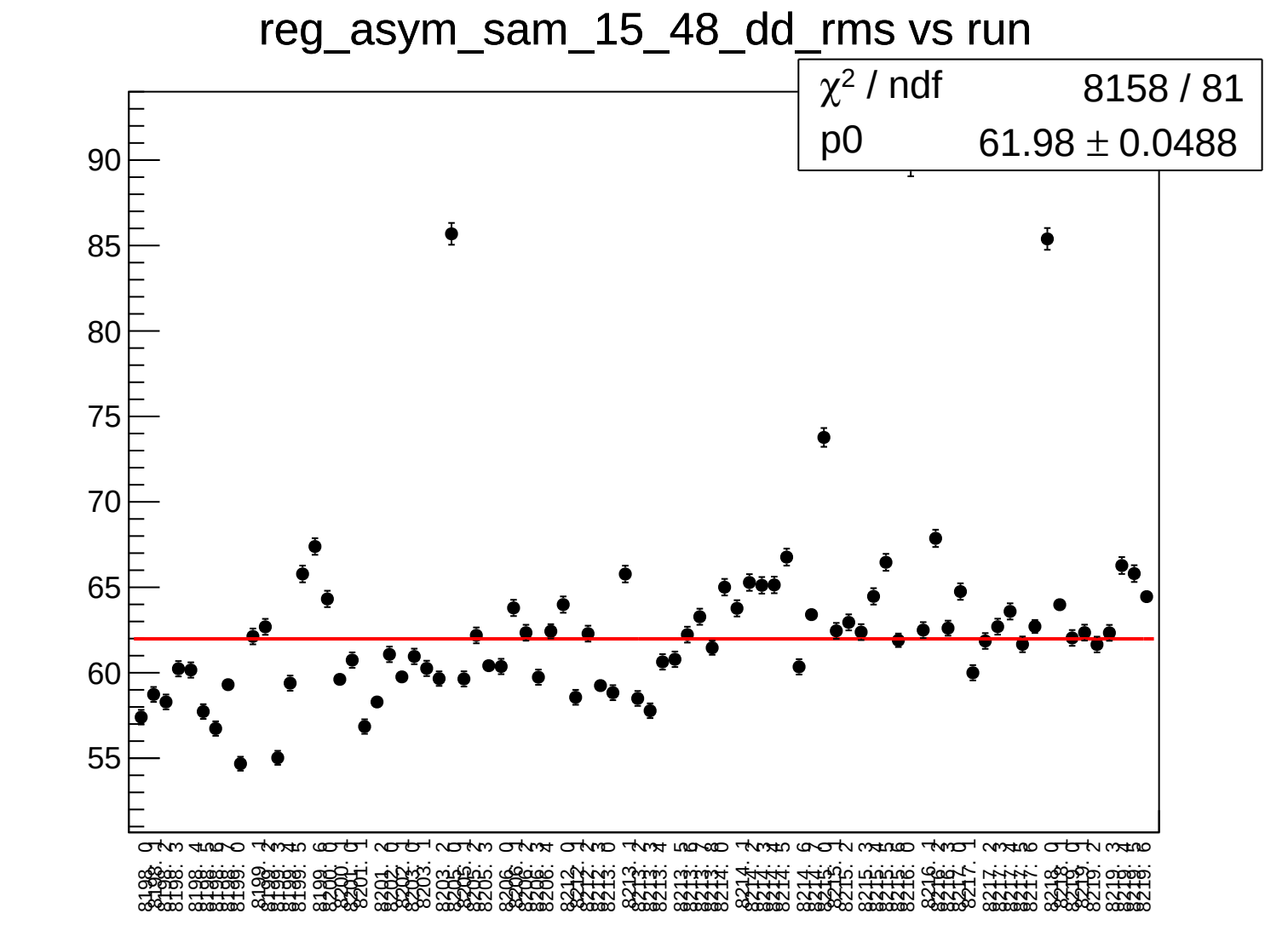

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.483e+05 / 81
p0 53.69 ± 0.04424
180
160
140
120
100
80
60
40
20

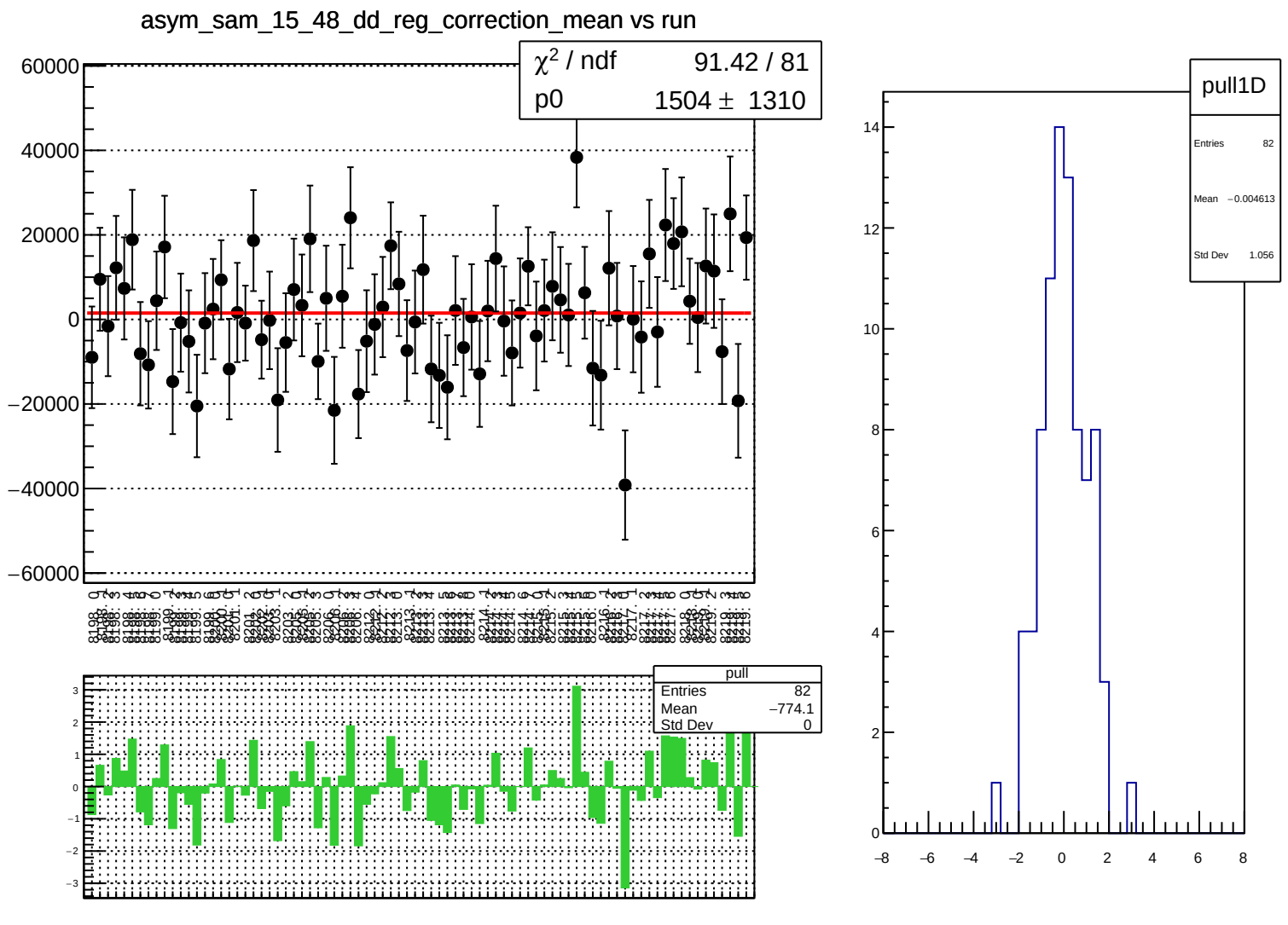

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 79.67 / 81
p0 −5.84e−14 ± 1.172e−13
pull
Entries 82
Mean 43.32
Std Dev 41.63
pull1D
Entries 82
Mean −0.04368
Std Dev 0.9847

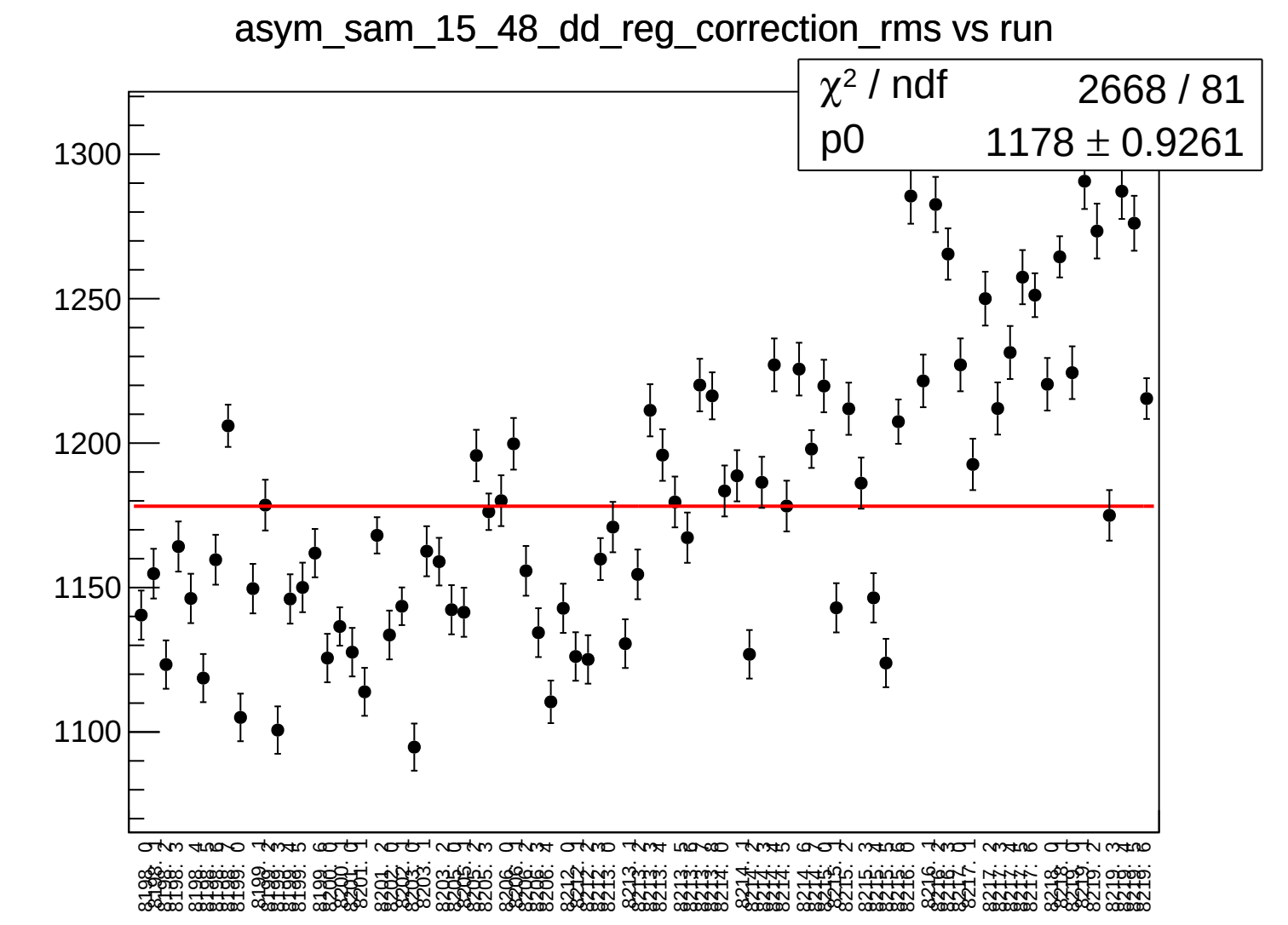

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.536e+05 / 81
p0 8.56e−11 ± 8.284e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

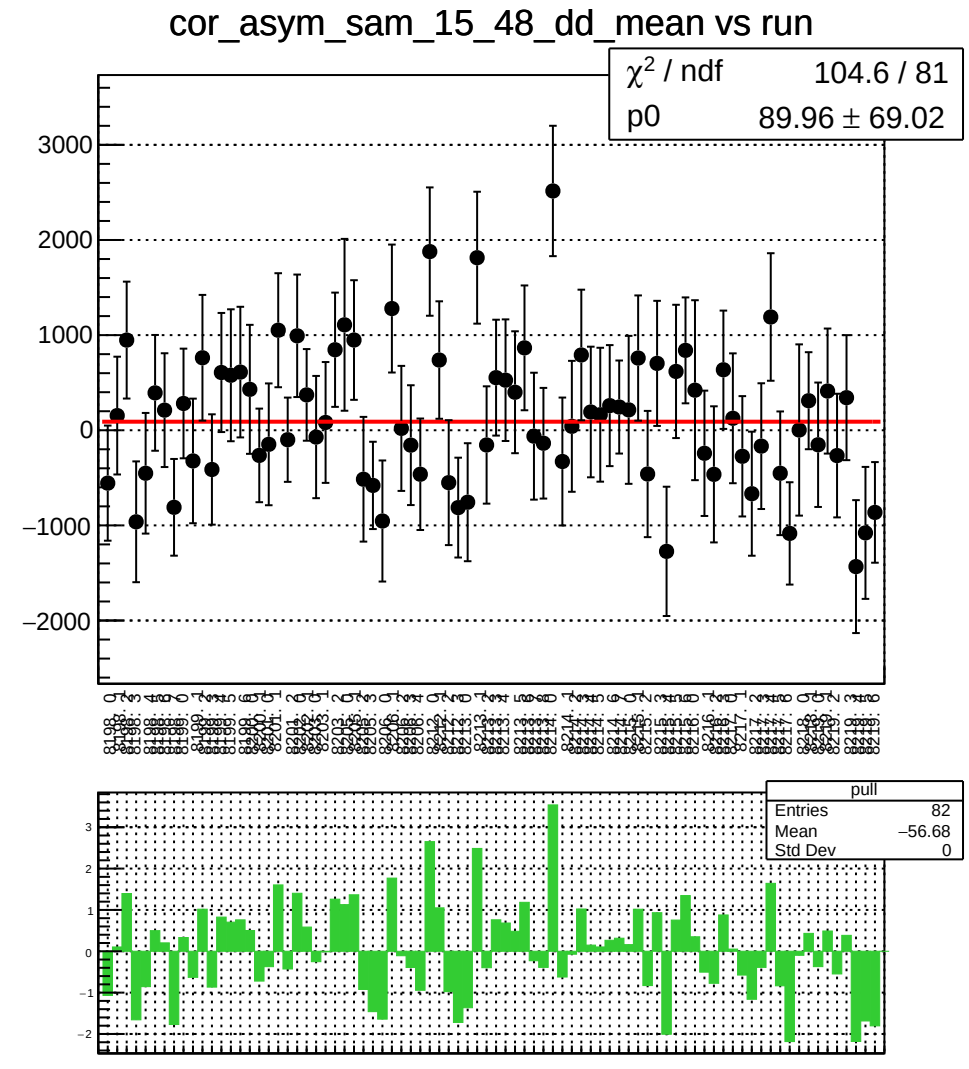

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 104.6 / 81
p0 89.96 ± 69.02
3000
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −56.69
Std Dev 0
3
2
1
0
−1
−2

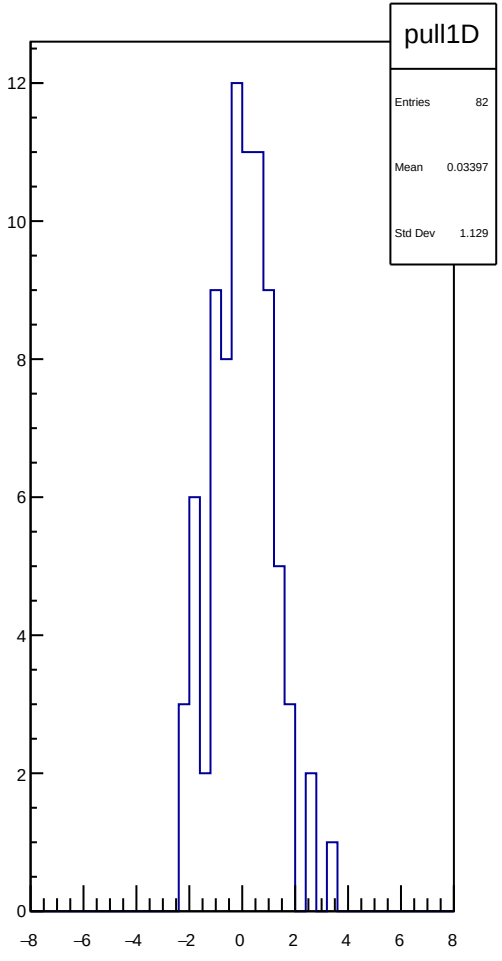

pull1D
Entries 82
Mean 0.03397
Std Dev 1.129
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

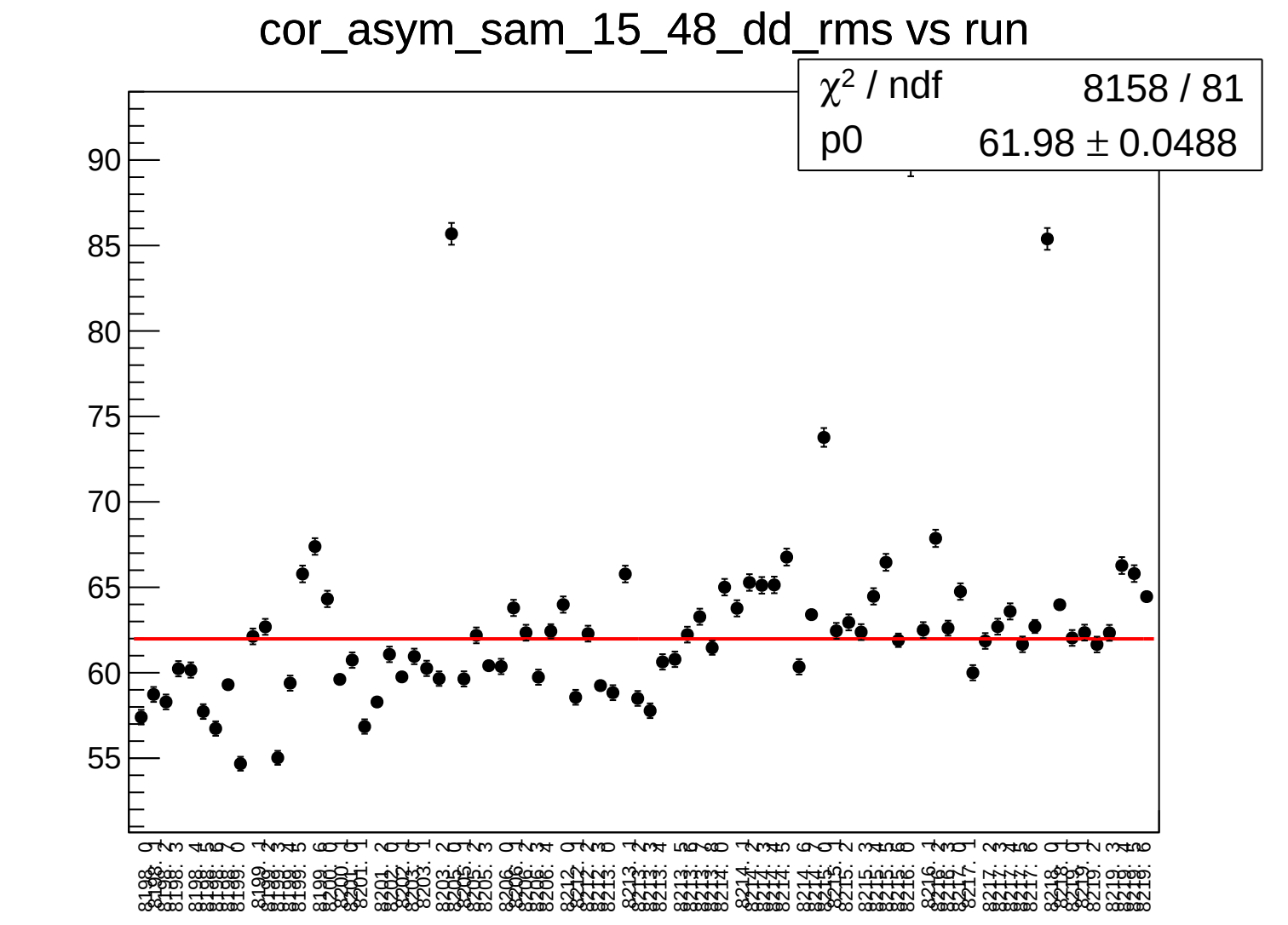

reg_asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 8158 / 81
p0 61.98 ± 0.0488
90
85
80
75
70
65
60
55

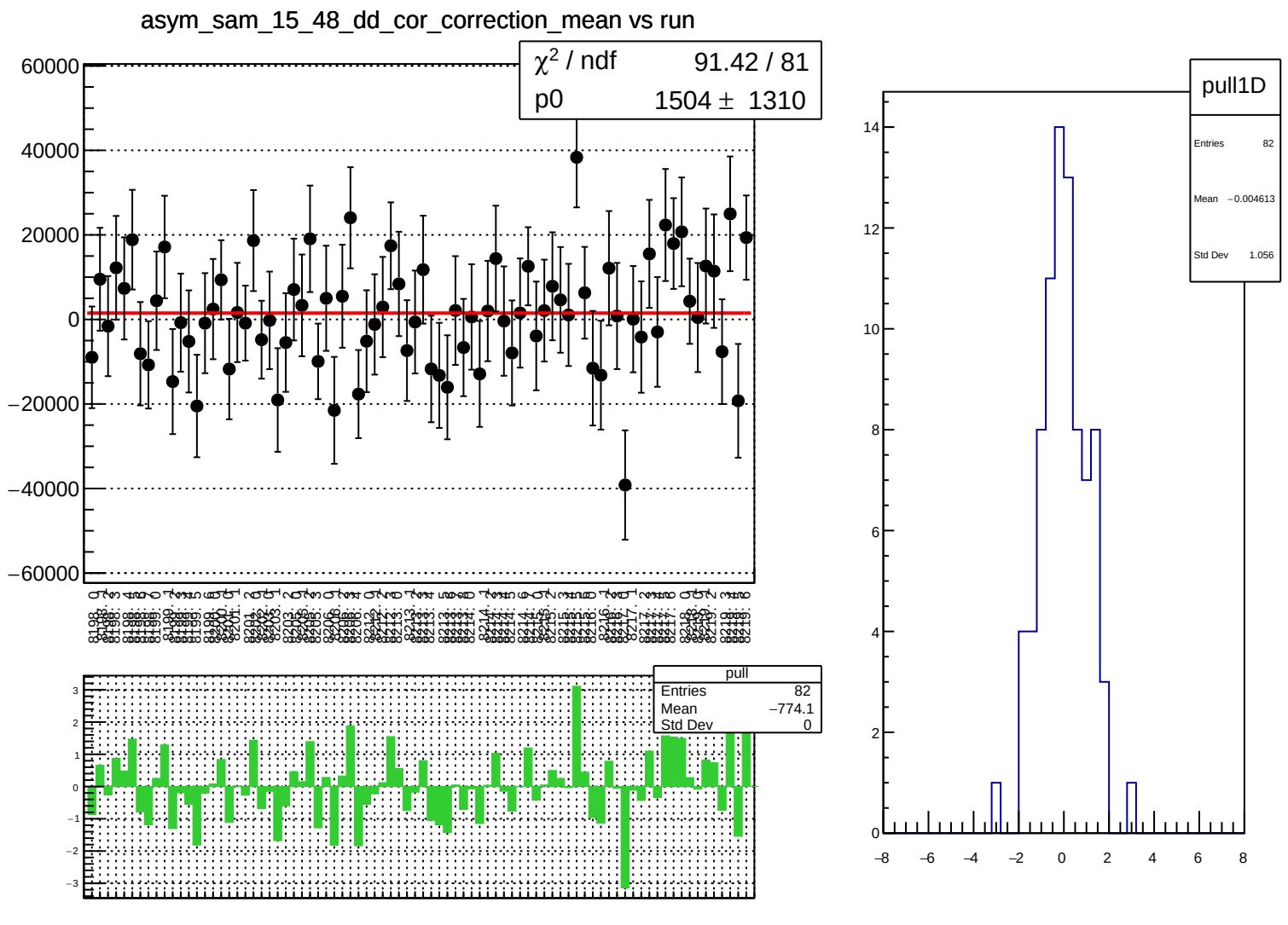

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 91.42 / 81
p0 1504 ± 1310
pull
Entries 82
Mean −774.1
Std Dev 0
pull1D
Entries 82
Mean −0.004613
Std Dev 1.056

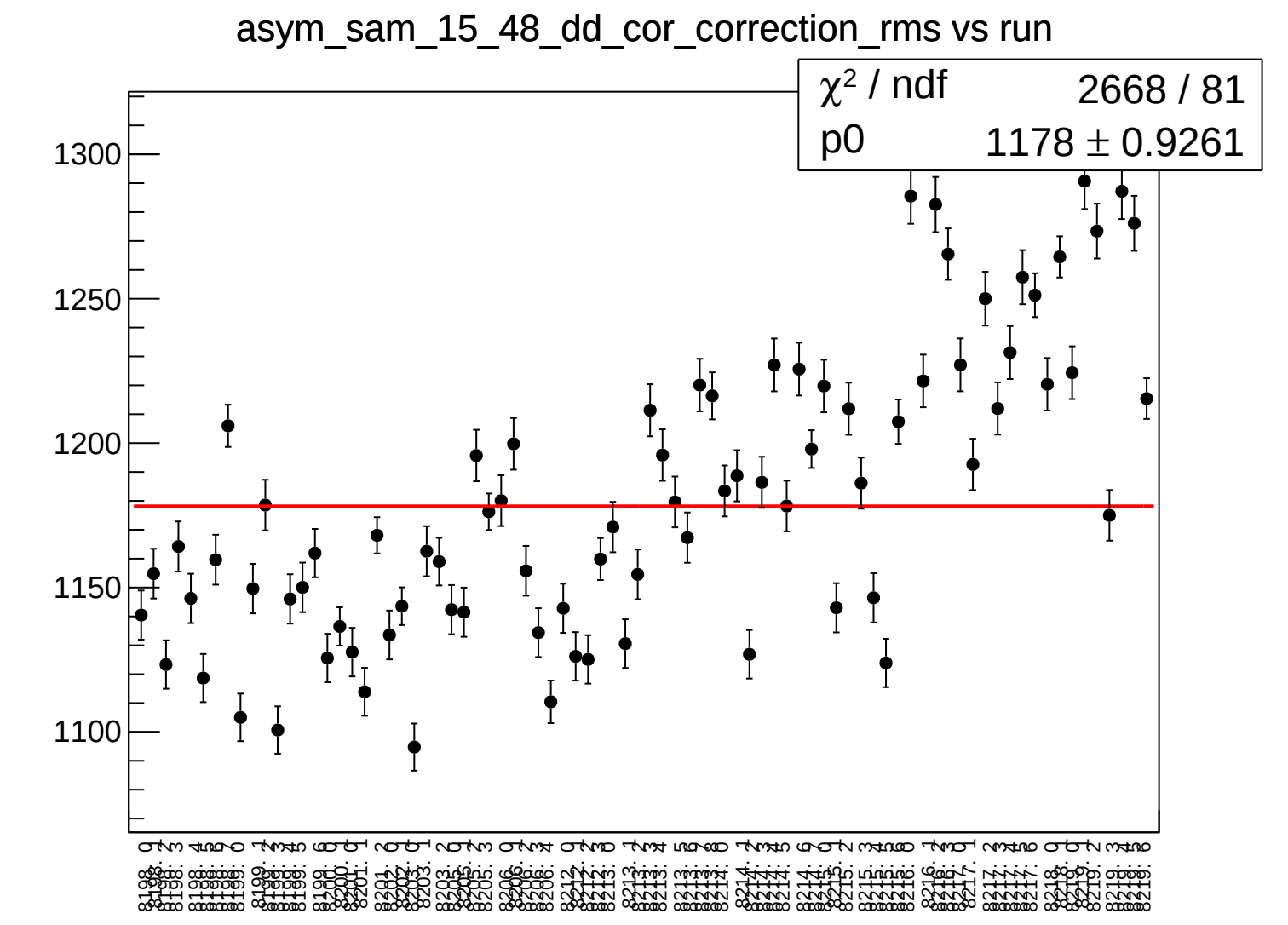

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 2668 / 81
p0 1178 ± 0.9261
1300
1250
1200
1150
1100

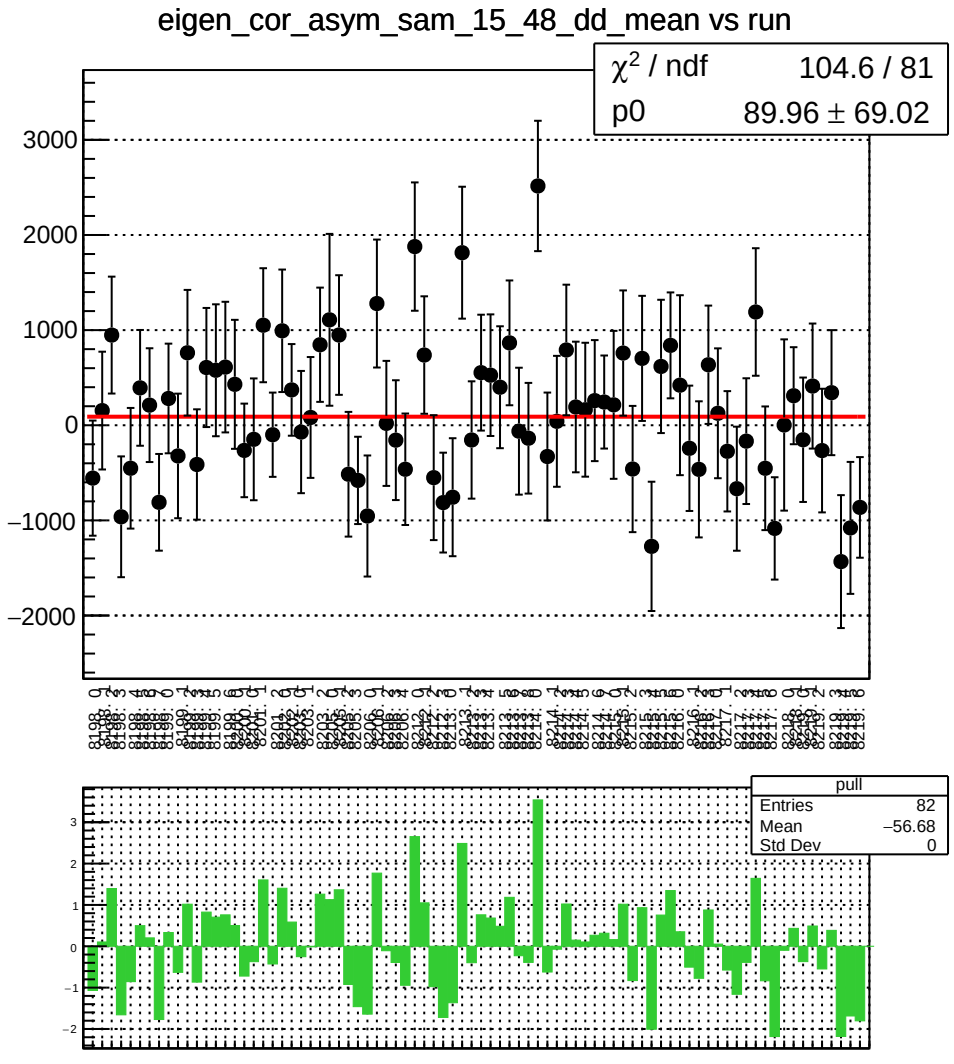

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 104.6 / 81
p0 89.96 ± 69.02
3000
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −56.68
Std Dev 0
3
2
1
0
−1
−2

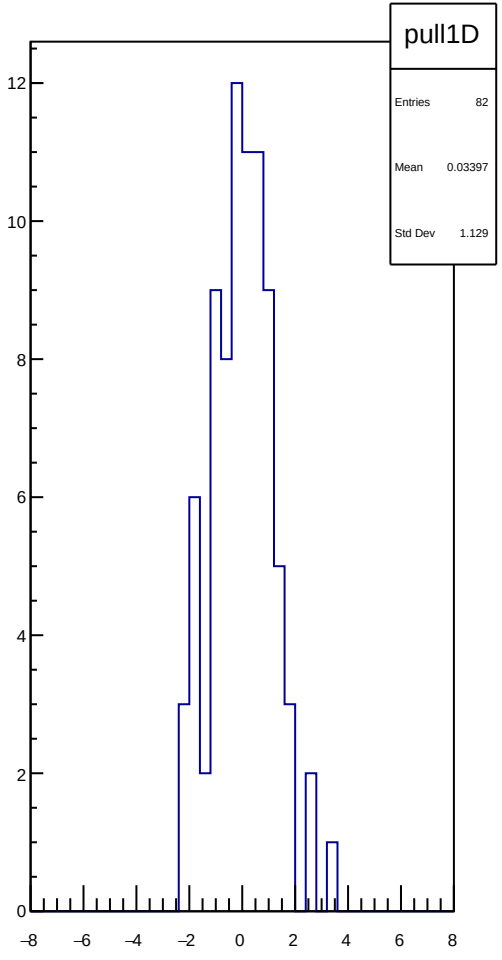

pull1D
Entries 82
Mean 0.03397
Std Dev 1.129
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

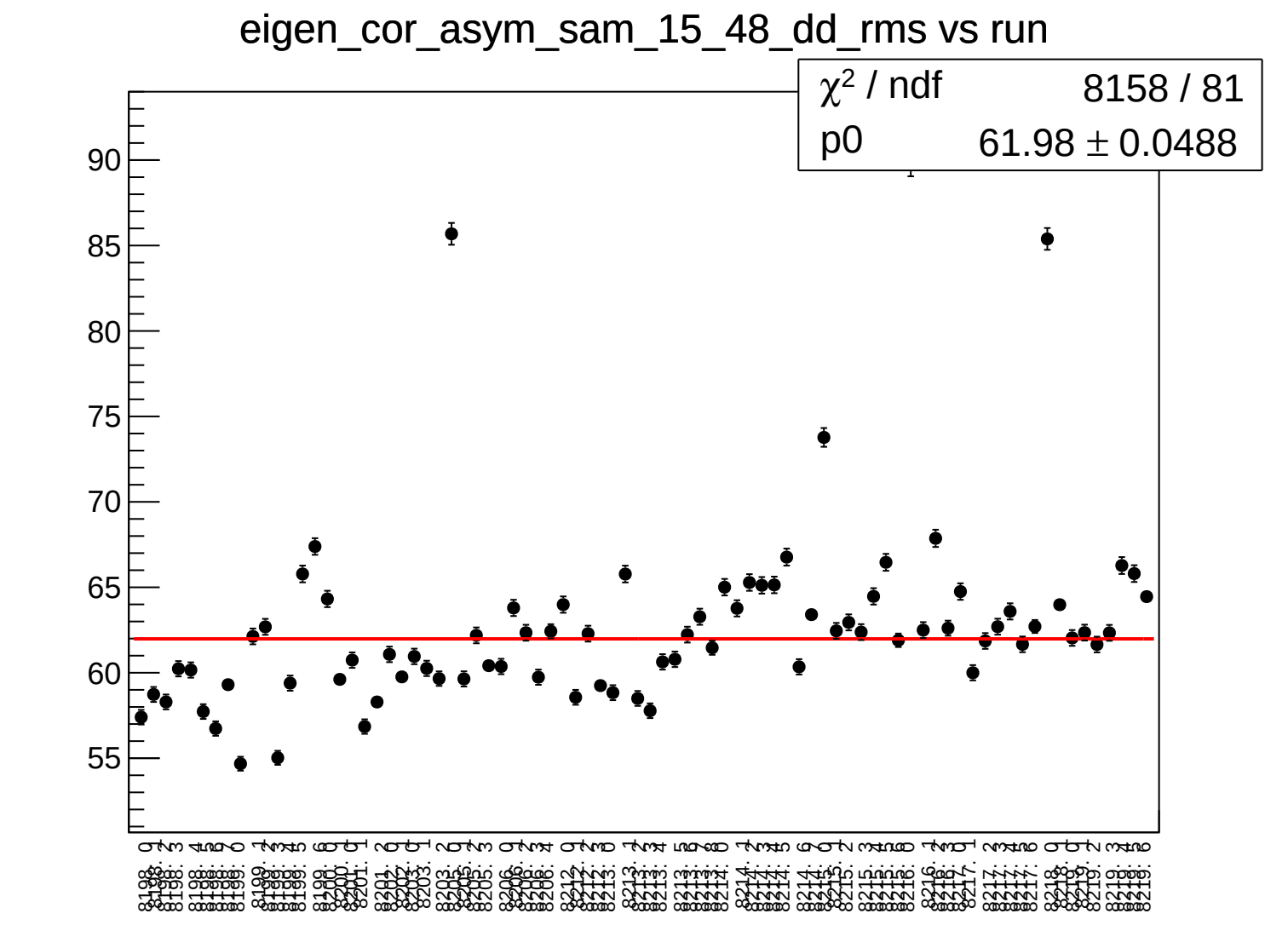

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 8158 / 81
p0 61.98 ± 0.0488
90
85
80
75
70
65
60
55

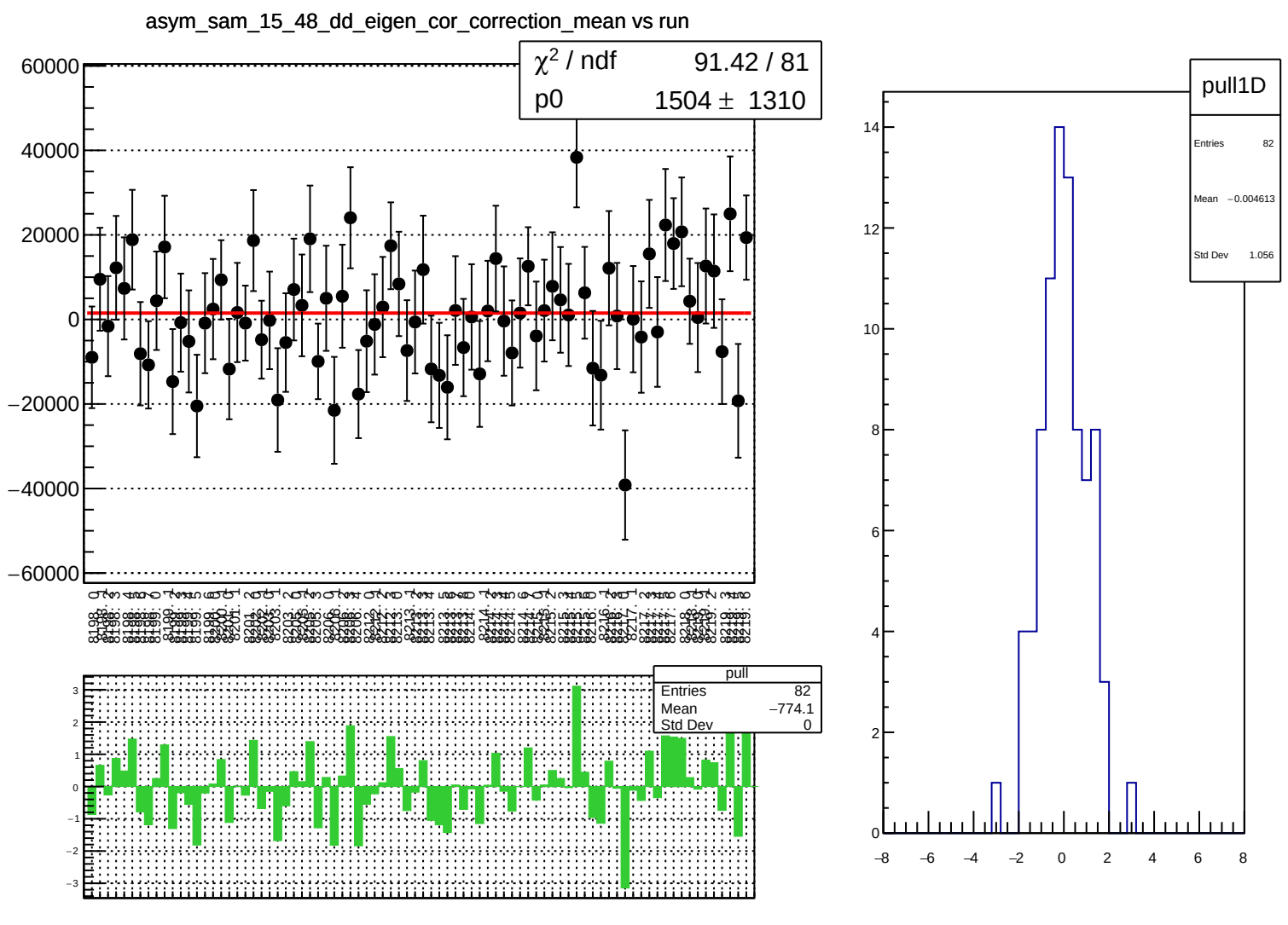

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 91.42 / 81
p0 1504 ± 1310
pull
Entries 82
Mean −774.1
Std Dev 0
pull1D
Entries 82
Mean −0.004613
Std Dev 1.056

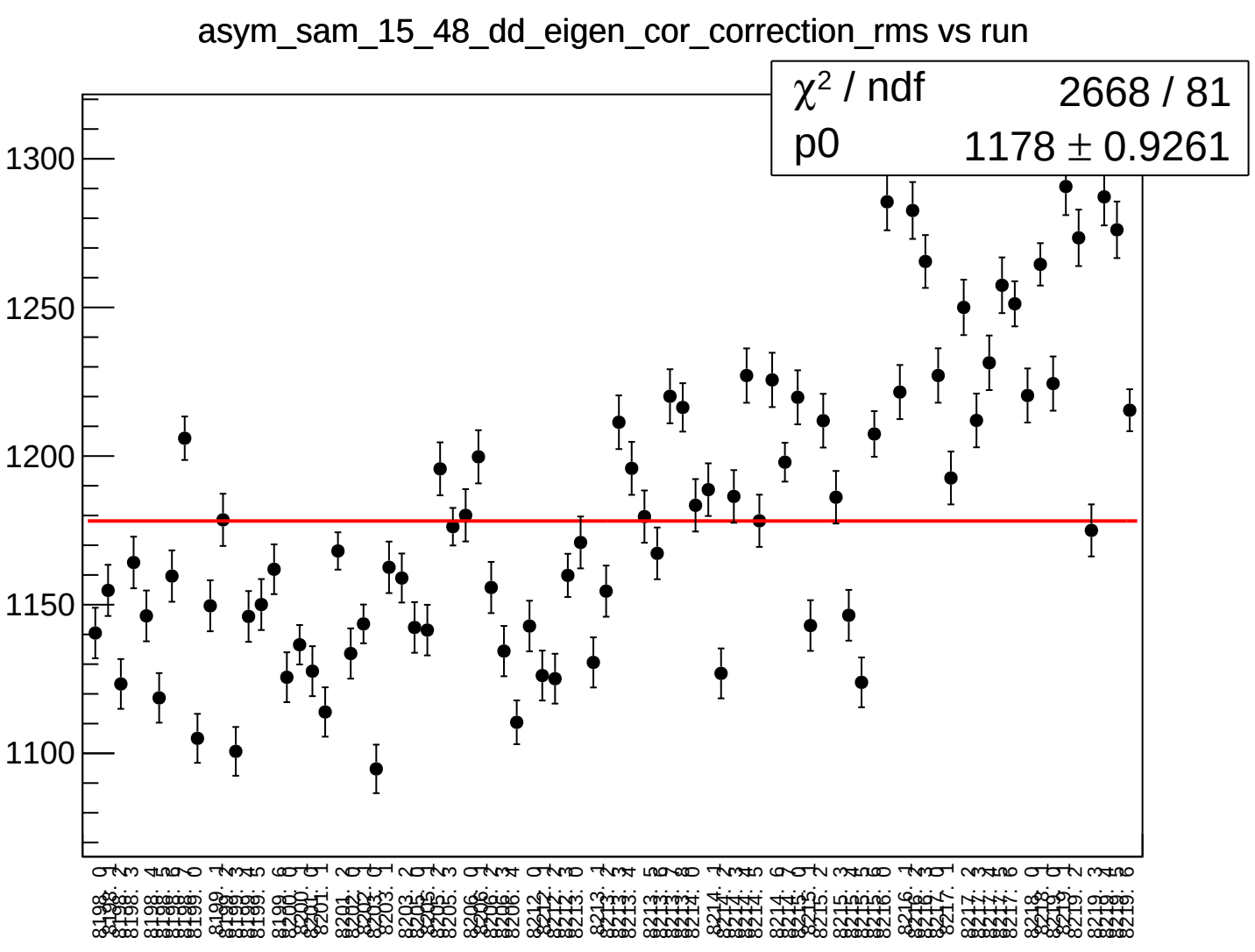

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 2668 / 81
p0 1178 ± 0.9261
1300
1250
1200
1150
1100

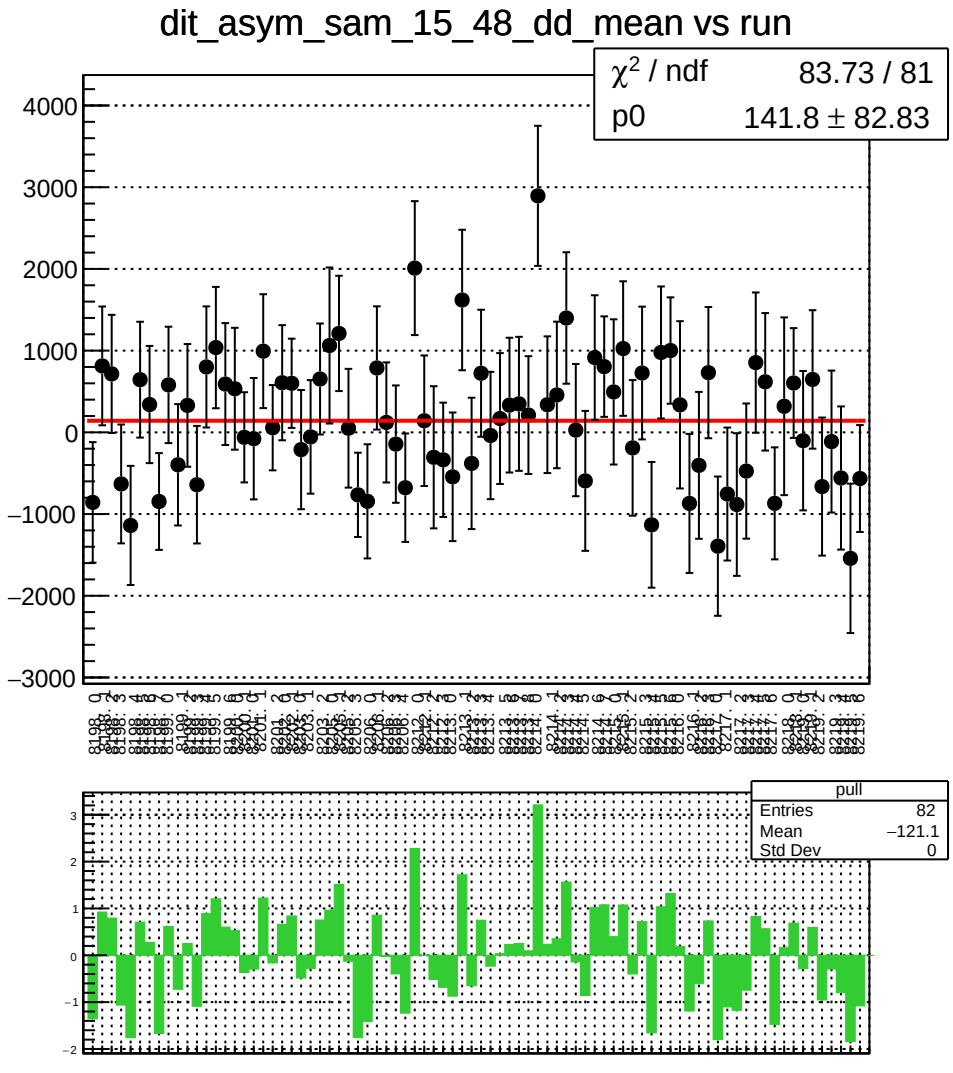

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 104.6 / 81
p0 89.96 ± 69.02
3000
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −56.68
Std Dev 0
3
2
1
0
−1
−2

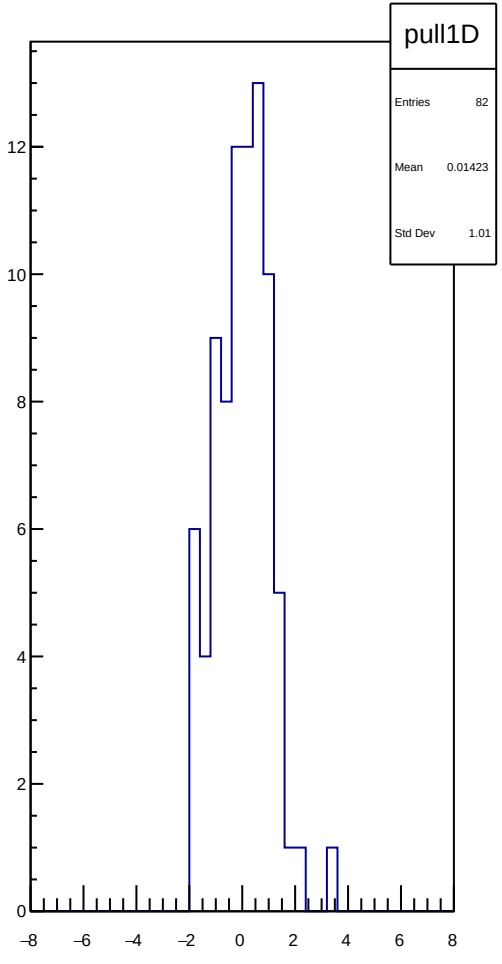

pull1D
Entries 82
Mean 0.03397
Std Dev 1.129
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

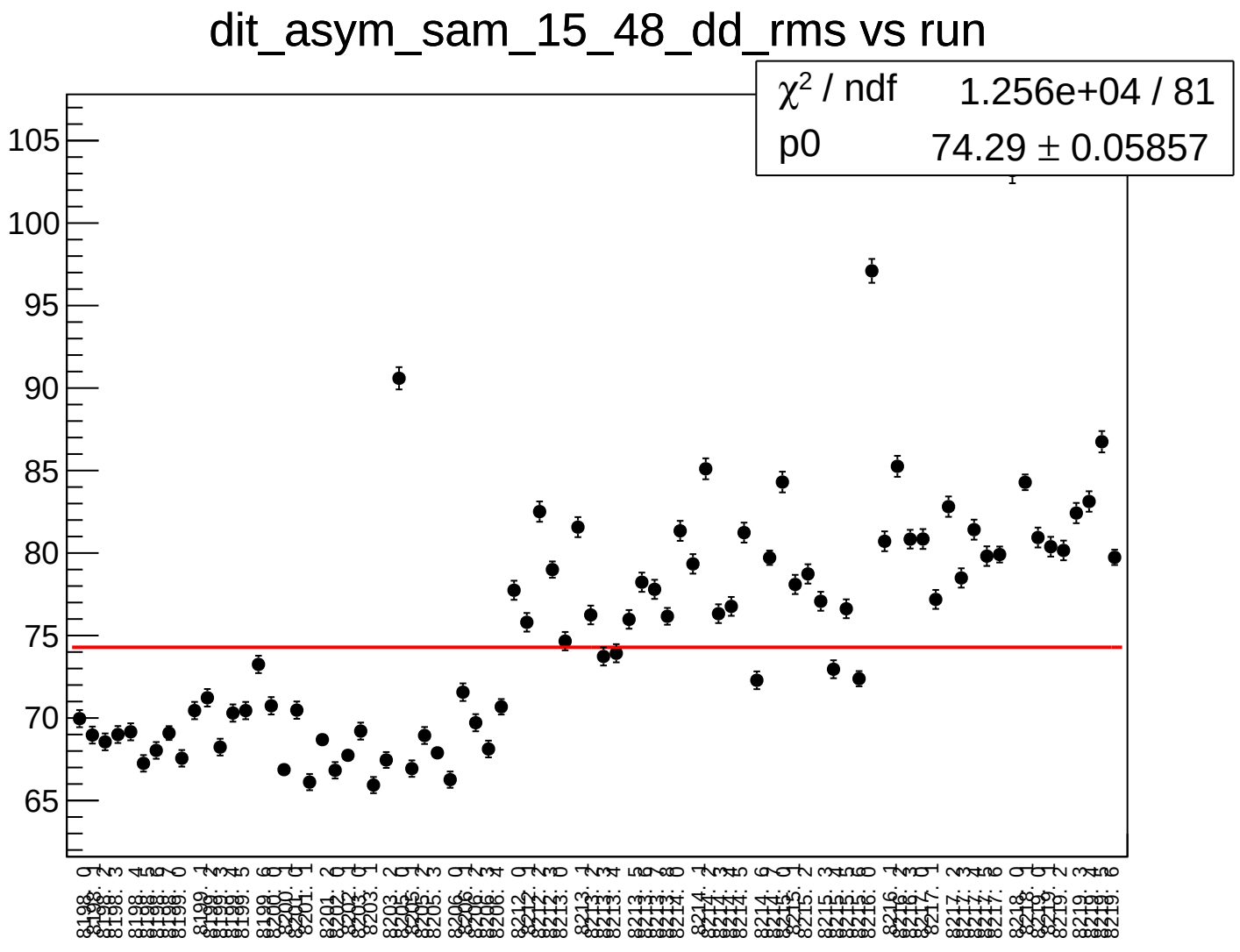

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 8158 / 81
p0 61.98 ± 0.0488
90
85
80
75
70
65
60
55

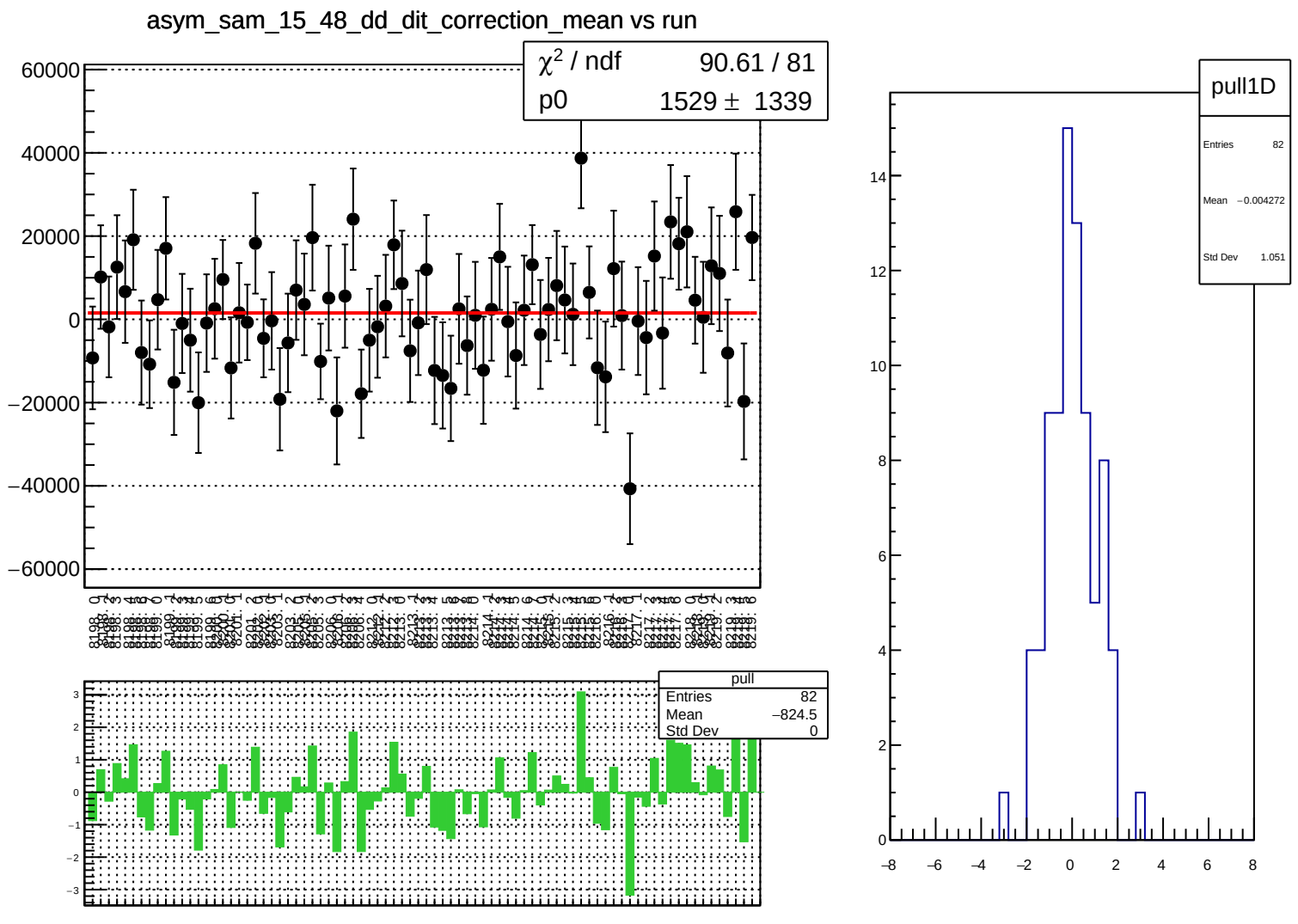

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.42 / 81
p0 1504 ± 1310
pull
Entries 82
Mean −774.1
Std Dev 0
pull1D
Entries 82
Mean −0.004613
Std Dev 1.056

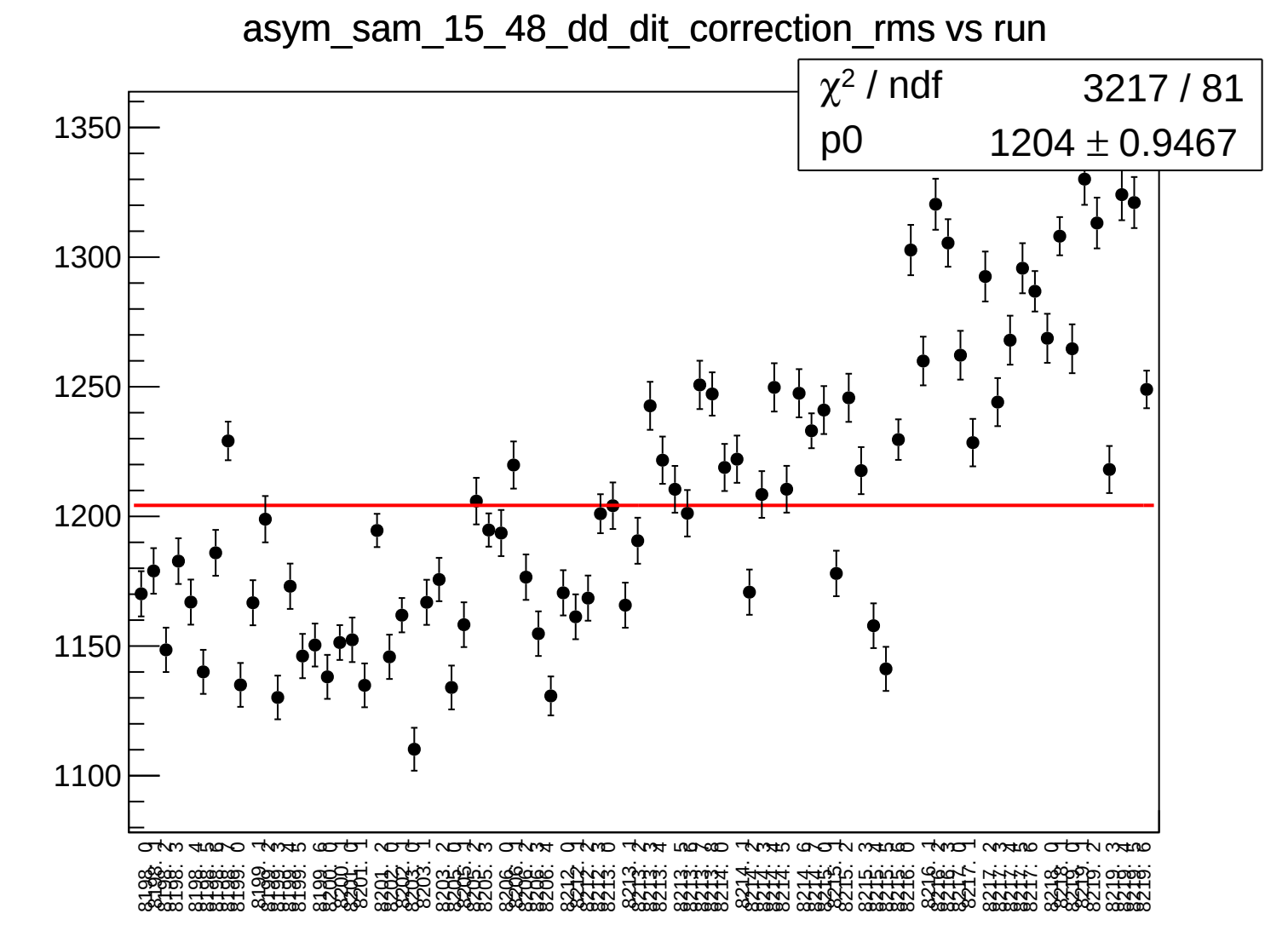

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2668 / 81
p0 1178 ± 0.9261
1300
1250
1200
1150
1100

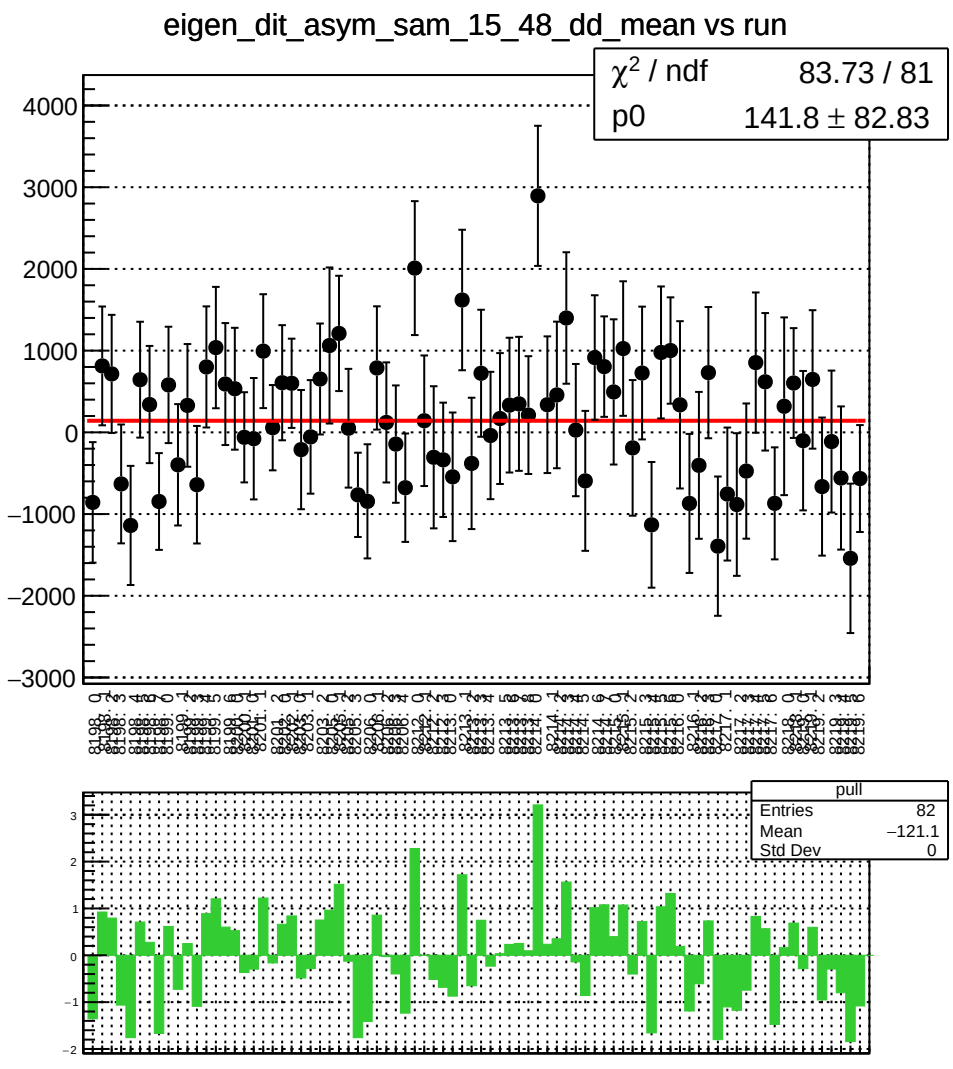

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 83.73 / 81
p0 141.8 ± 82.83
pull
Entries 82
Mean −121.1
Std Dev 0

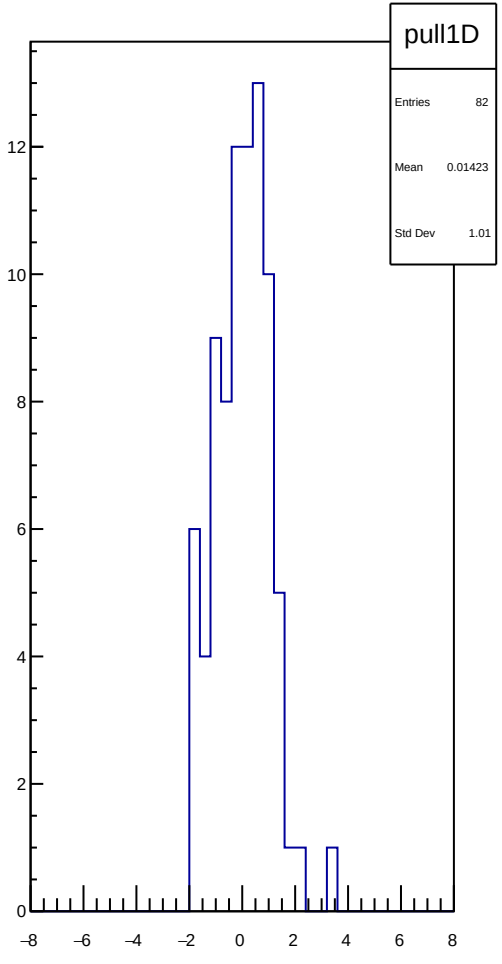

pull1D
Entries 82
Mean 0.01423
Std Dev 1.01

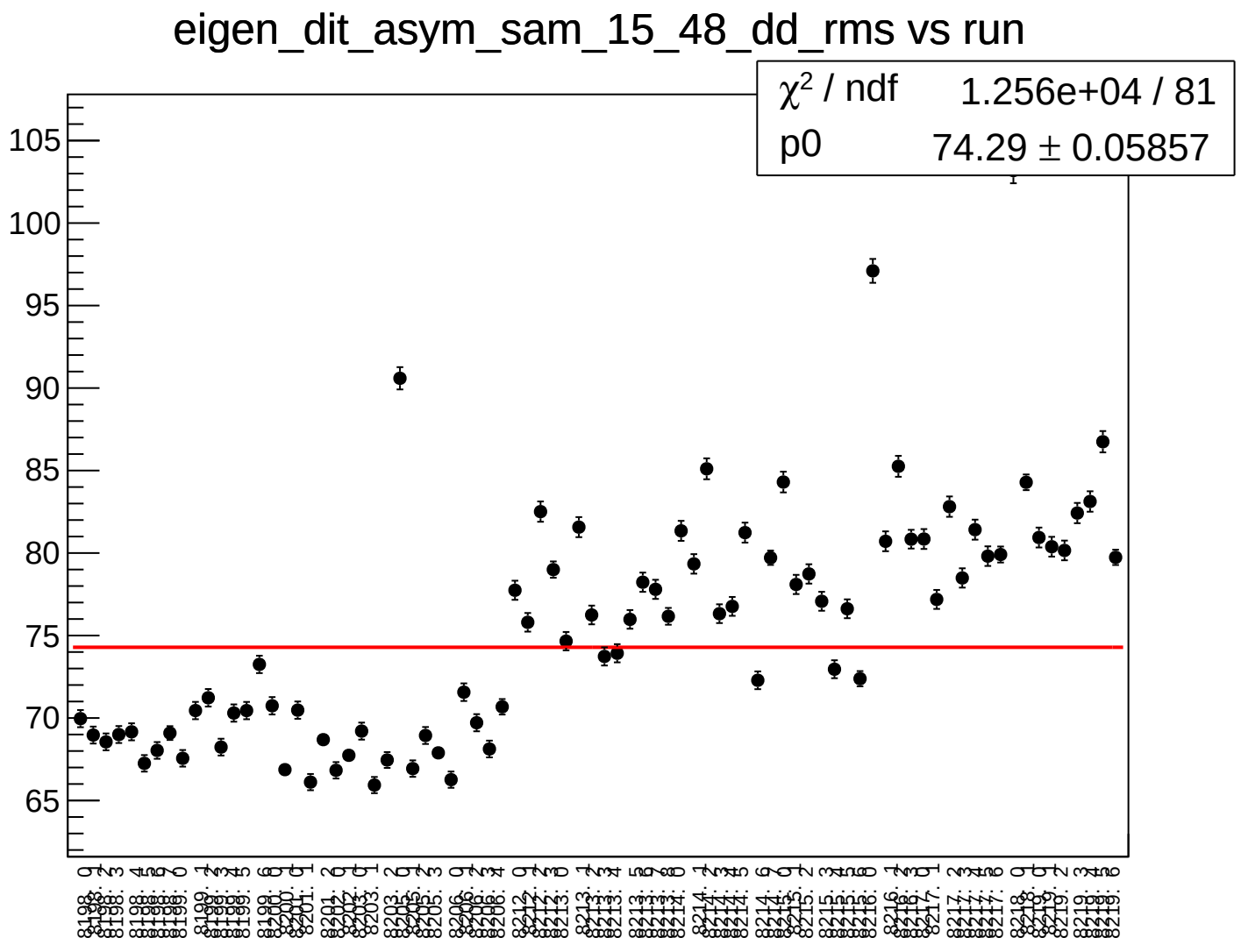

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.256e+04 / 81
p0 74.29 ± 0.05857
105
100
95
90
85
80
75
70
65

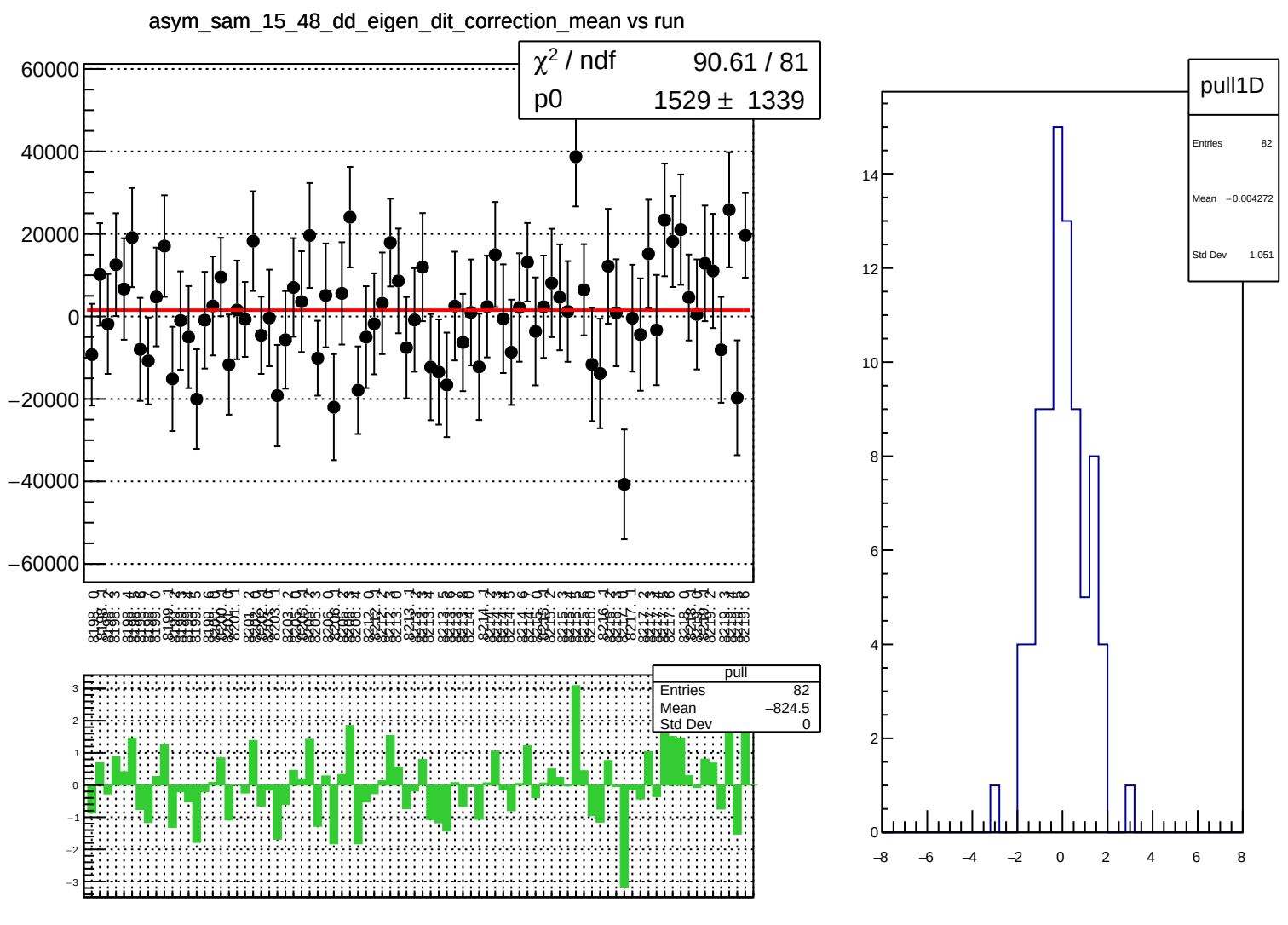

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 90.61 / 81
p0 1529 ± 1339
pull
Entries 82
Mean −824.5
Std Dev 0
pull1D
Entries 82
Mean −0.004272
Std Dev 1.051

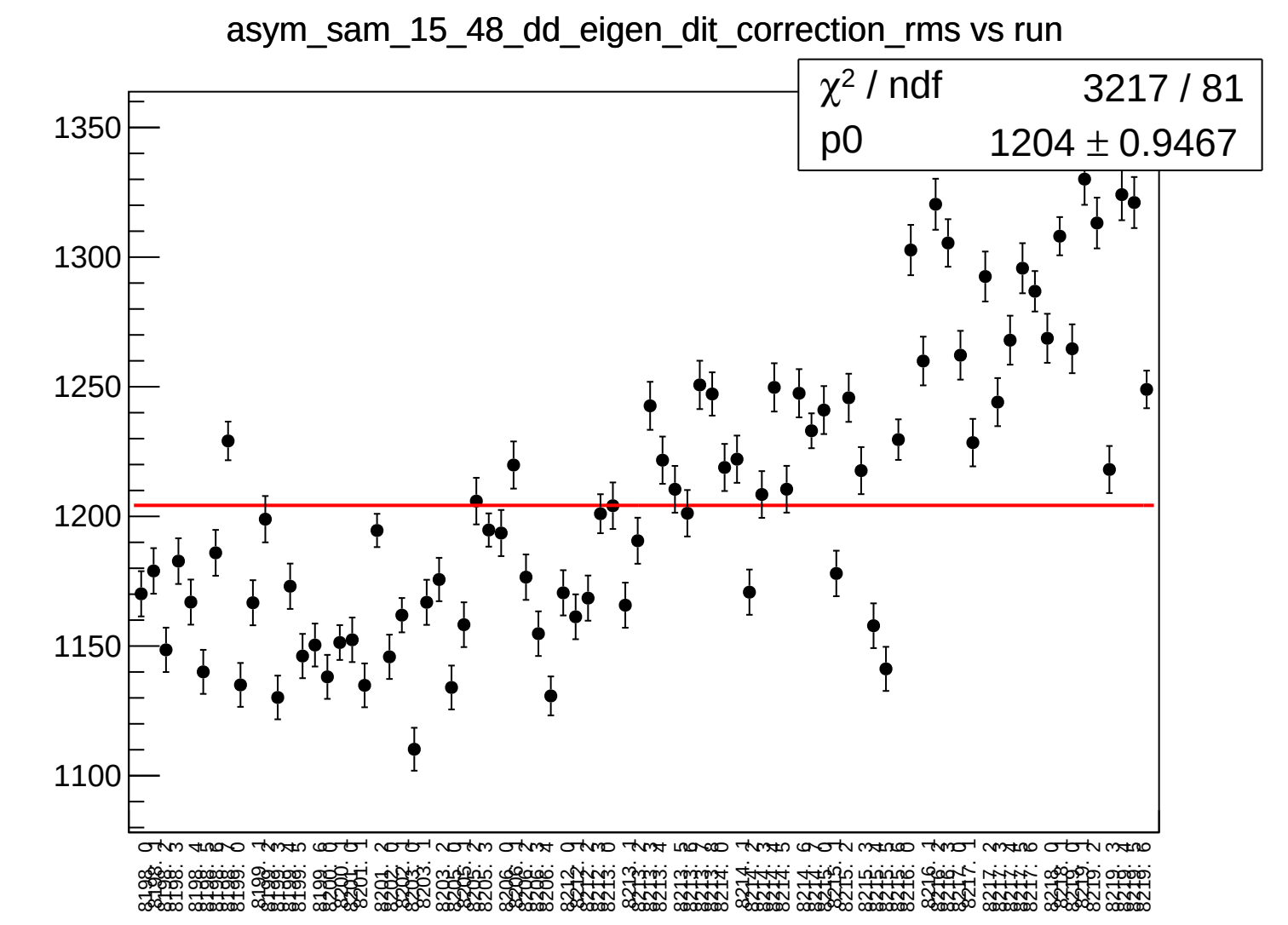

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 3217 / 81
p0 1204 ± 0.9467
1350
1300
1250
1200
1150
1100

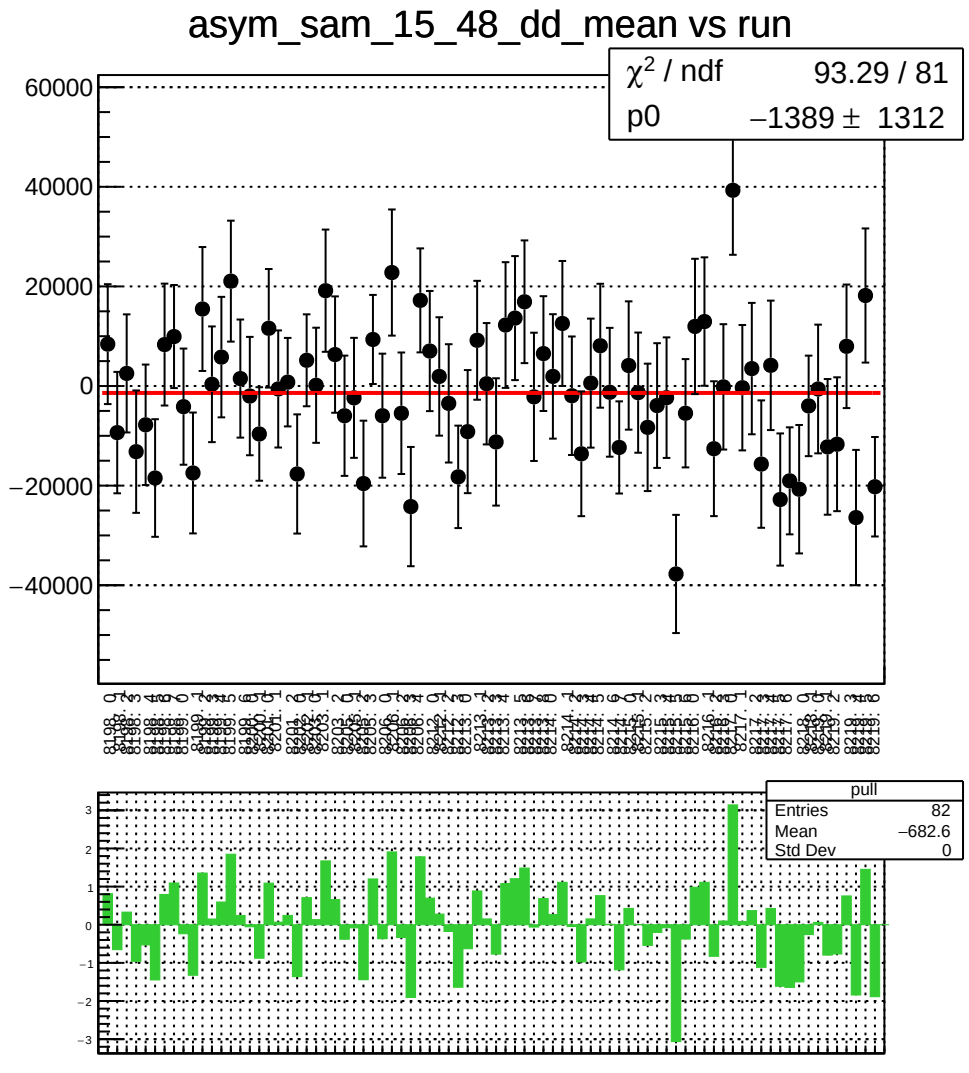

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 83.73 / 81
p0 141.8 ± 82.83
pull
Entries 82
Mean −121.1
Std Dev 0

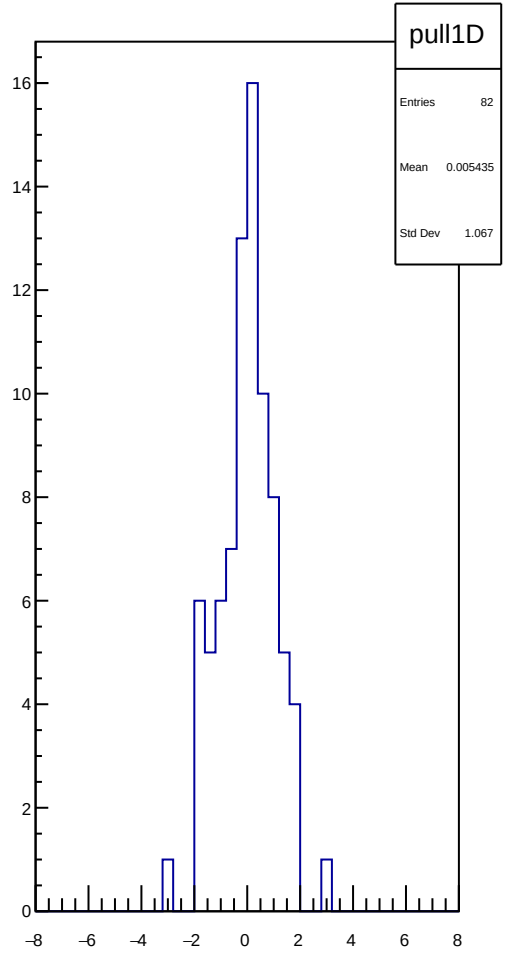

pull1D
Entries 82
Mean 0.01423
Std Dev 1.01

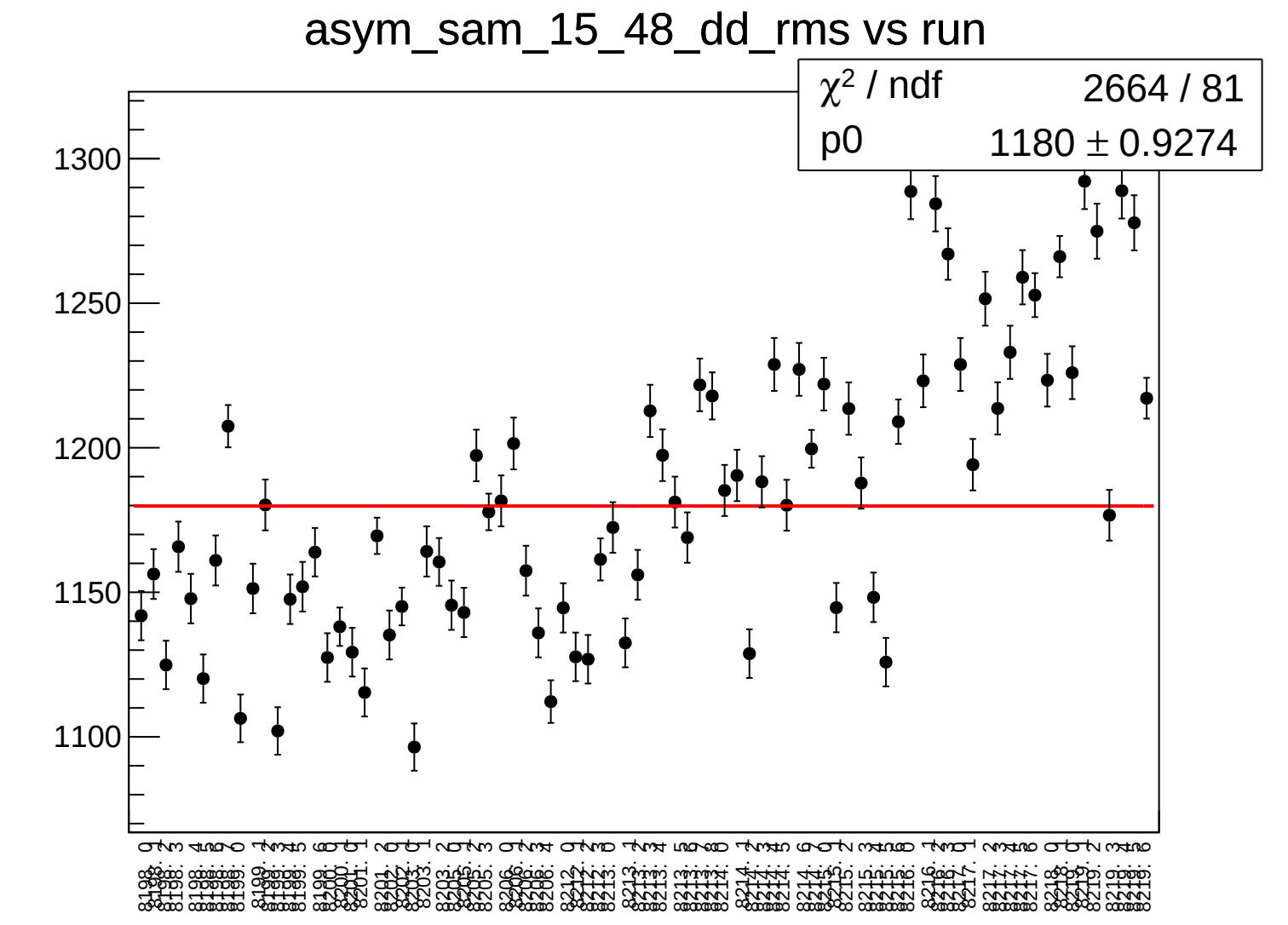

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.256e+04 / 81
p0 74.29 ± 0.05857
105
100
95
90
85
80
75
70
65

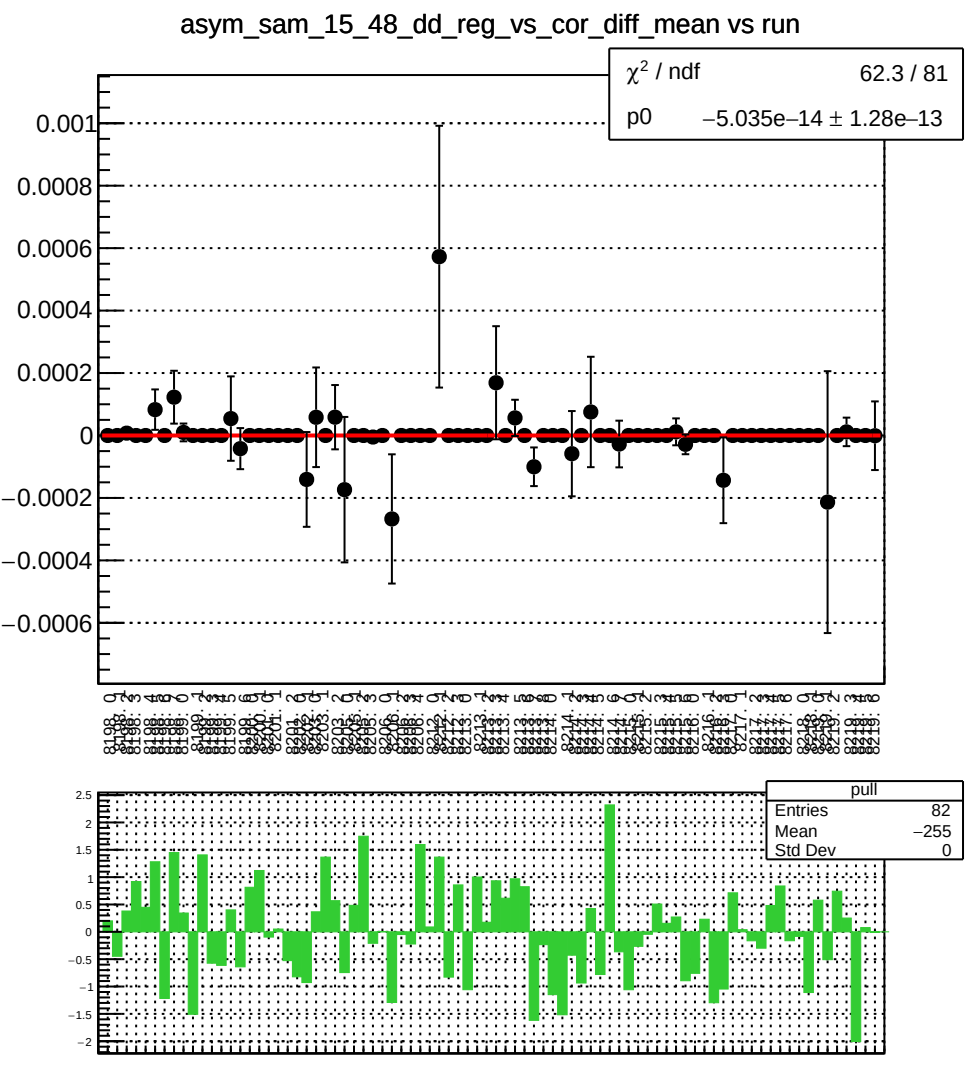

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.61 / 81
p0 1529 ± 1339
pull
Entries 82
Mean −824.5
Std Dev 0
pull1D
Entries 82
Mean −0.004272
Std Dev 1.051

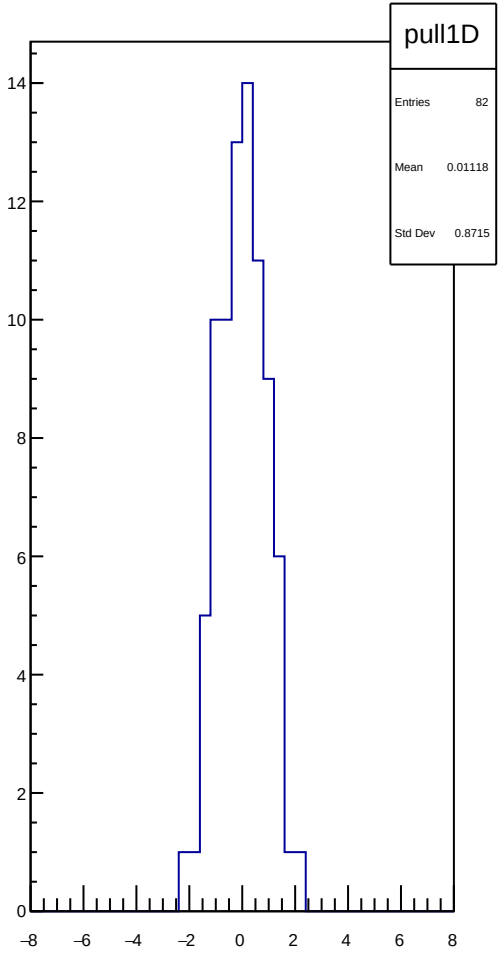

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3217 / 81
p0 1204 ± 0.9467
1350
1300
1250
1200
1150
1100

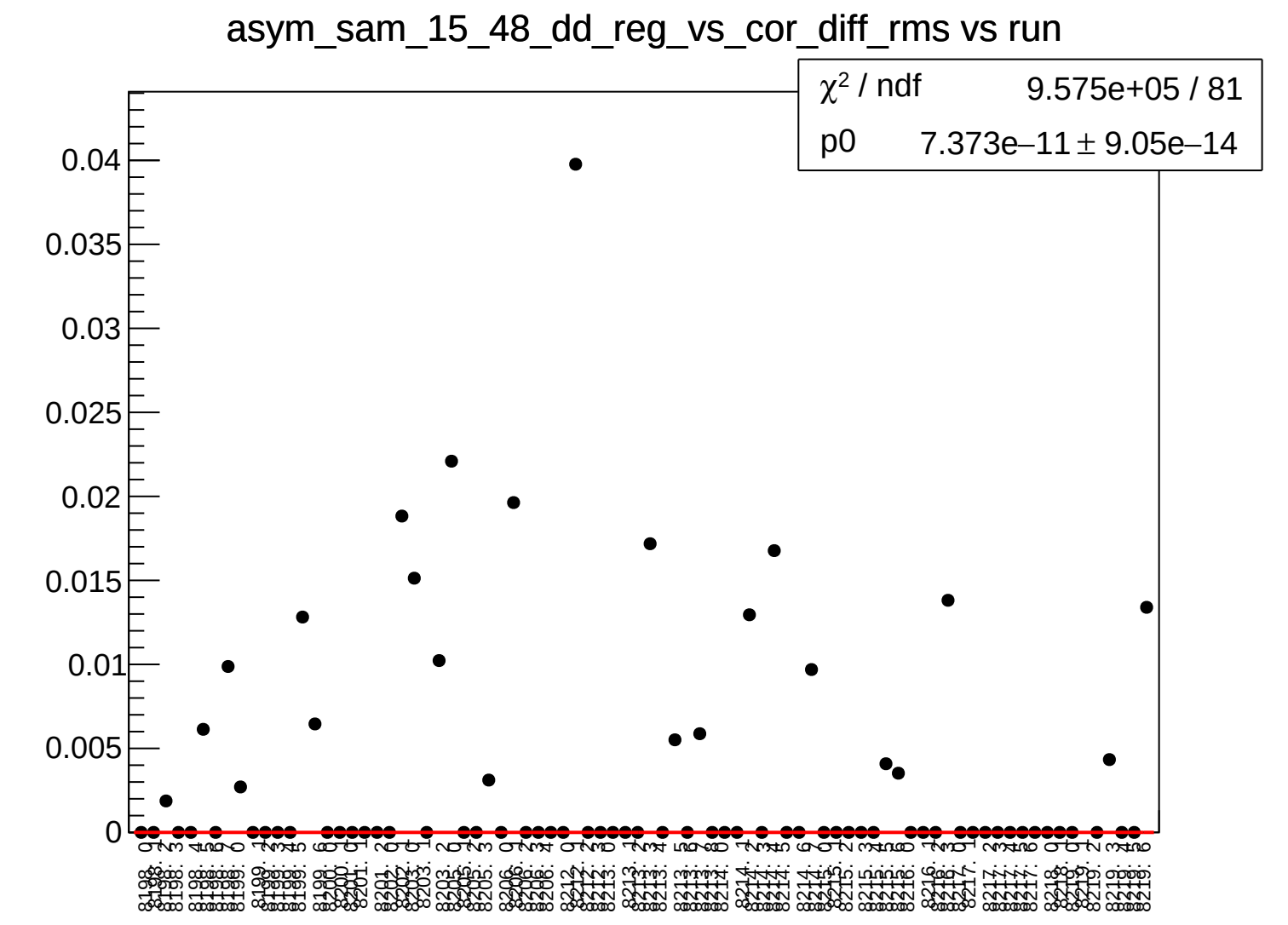

asym_sam_15_48_dd_mean vs run
χ² / ndf 93.29 / 81
p0 −1389 ± 1312
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −682.6
Std Dev 0
3
2
1
0
−1
−2
−3

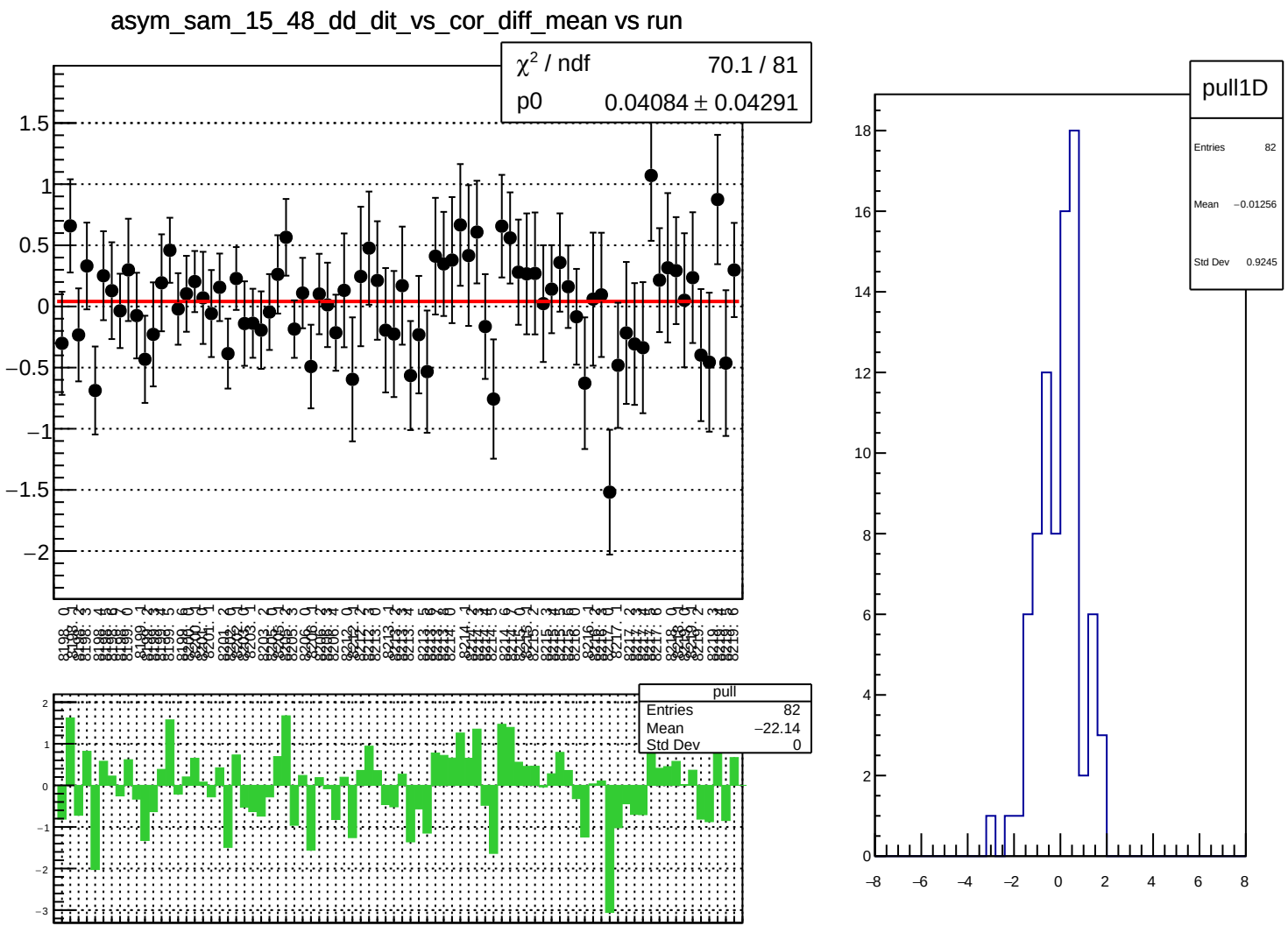

pull1D
Entries 82
Mean 0.005435
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

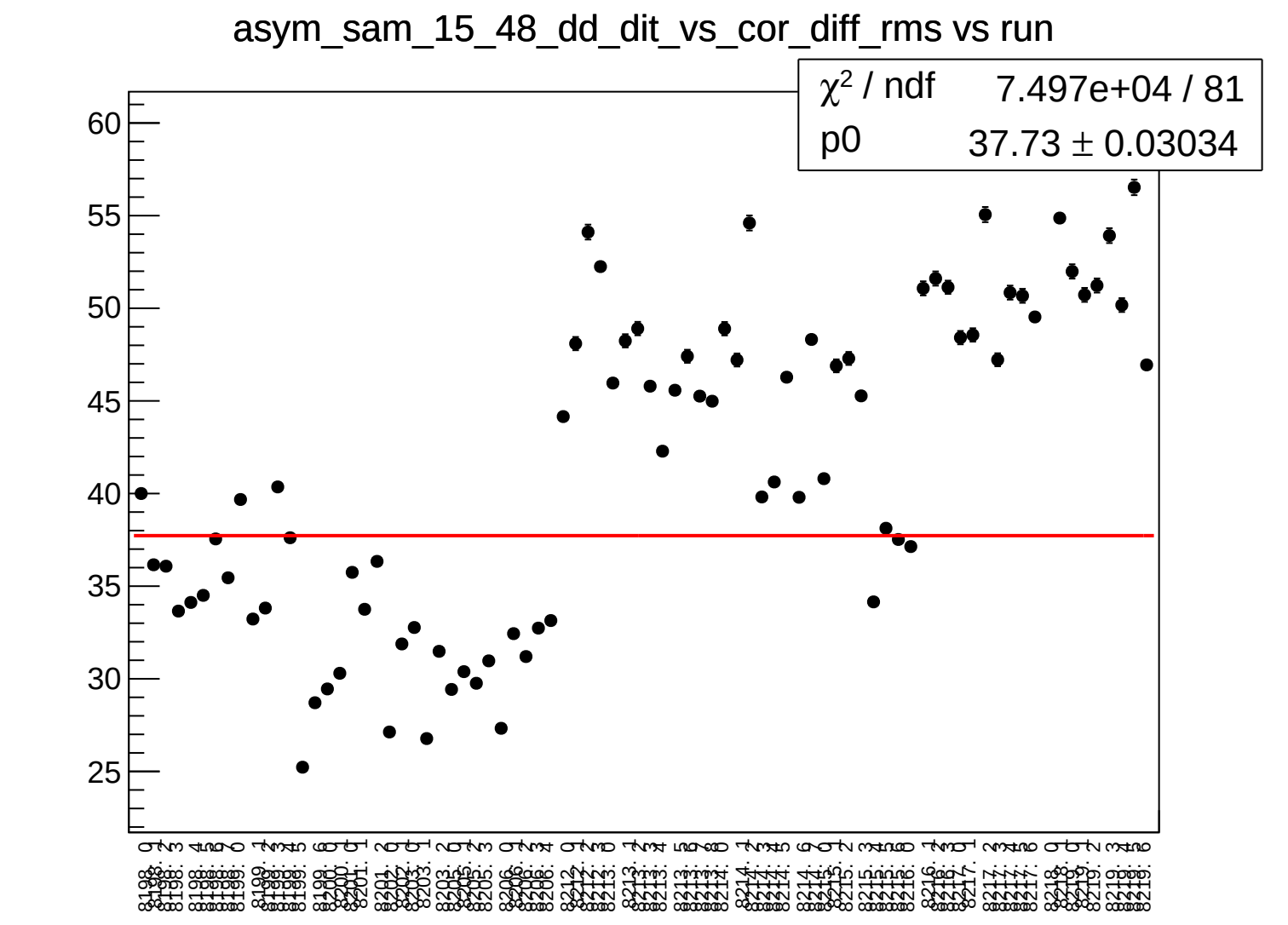

asym_sam_15_48_dd_rms vs run
χ² / ndf 2664 / 81
p0 1180 ± 0.9274
1300
1250
1200
1150
1100

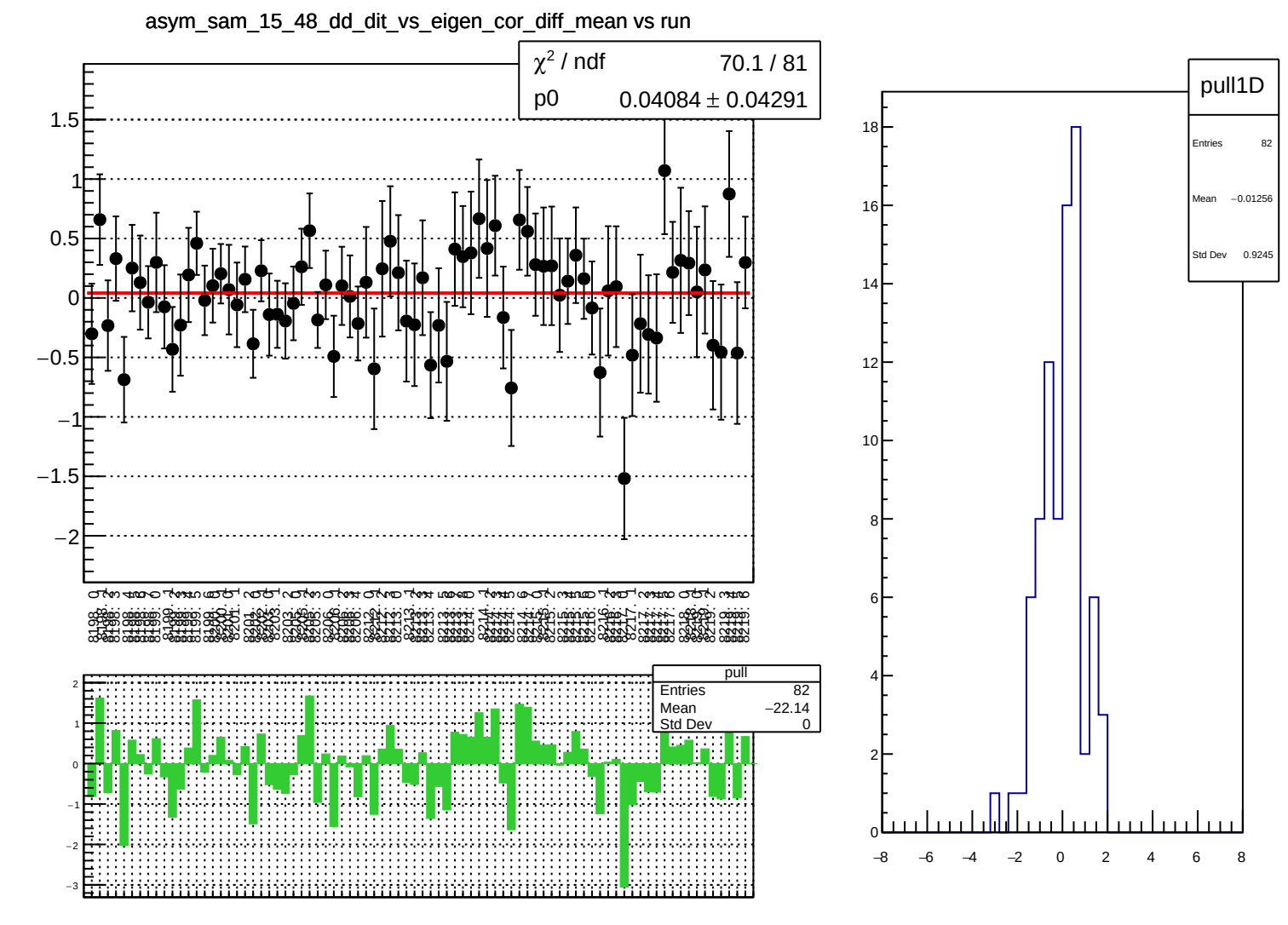

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 62.3 / 81
p0 −5.035e−14 ± 1.28e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 82
Mean −255
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

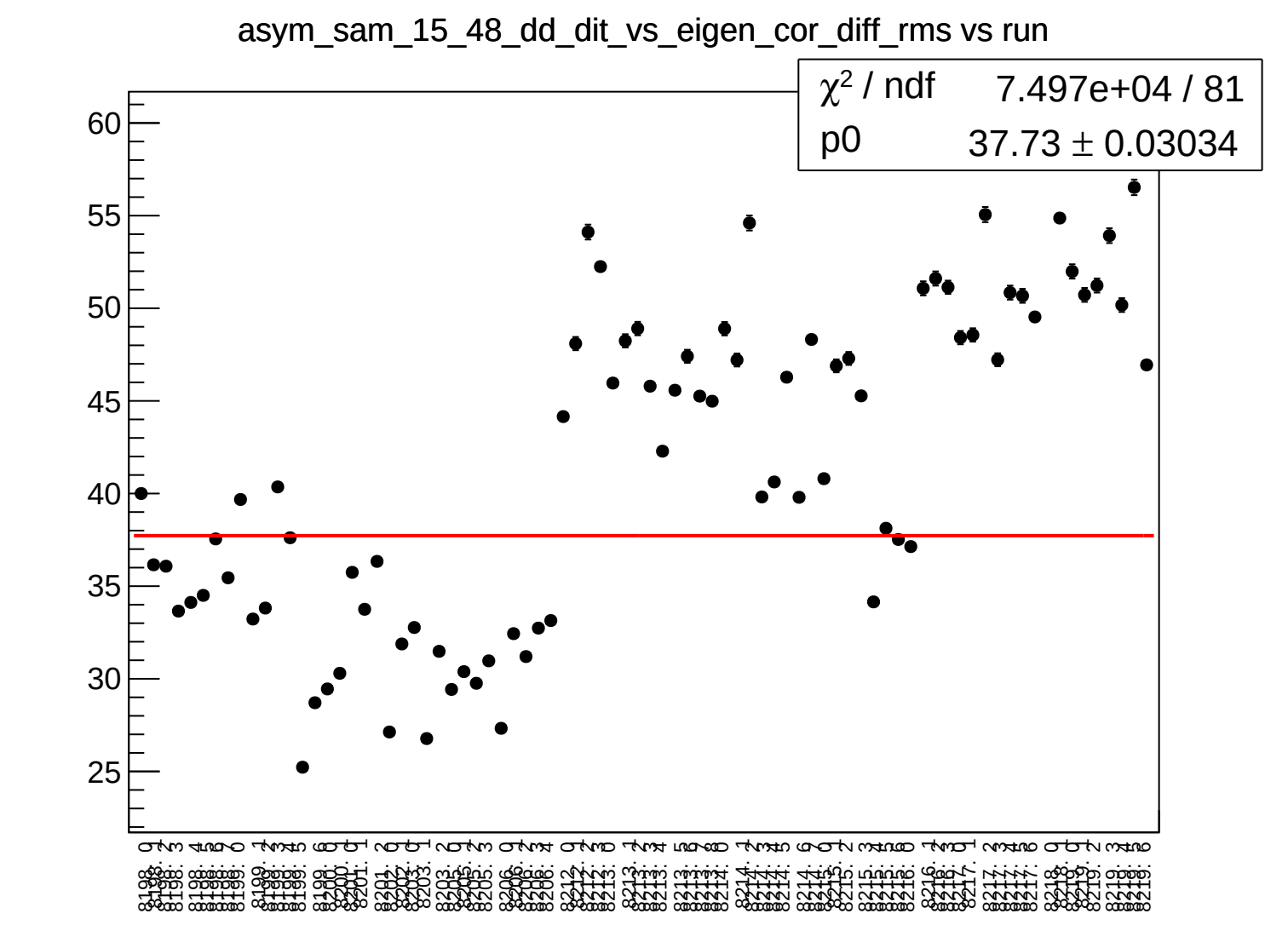

pull1D
Entries 82
Mean 0.01118
Std Dev 0.8715
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

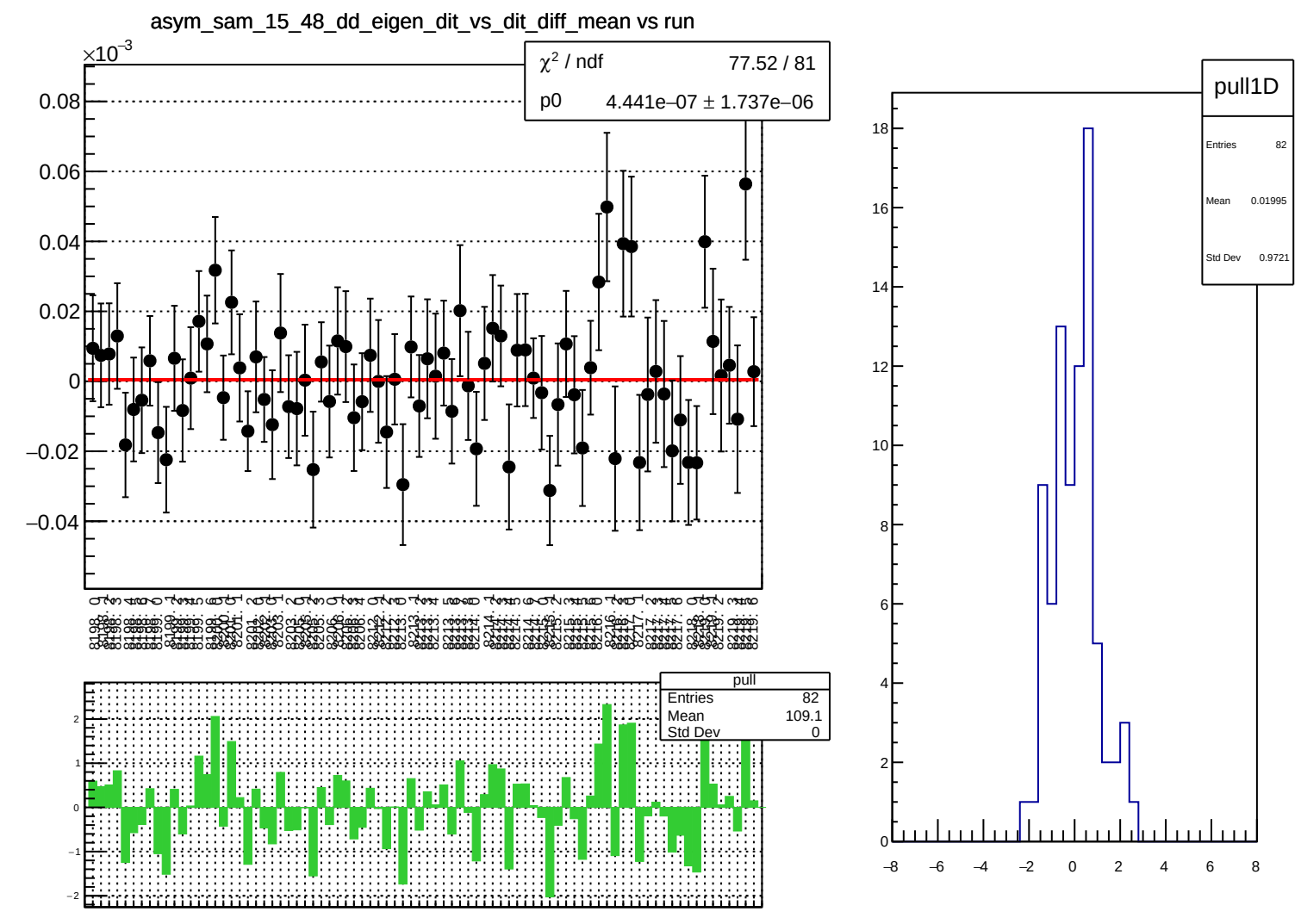

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.575e+05 / 81
p0 7.373e−11 ± 9.05e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

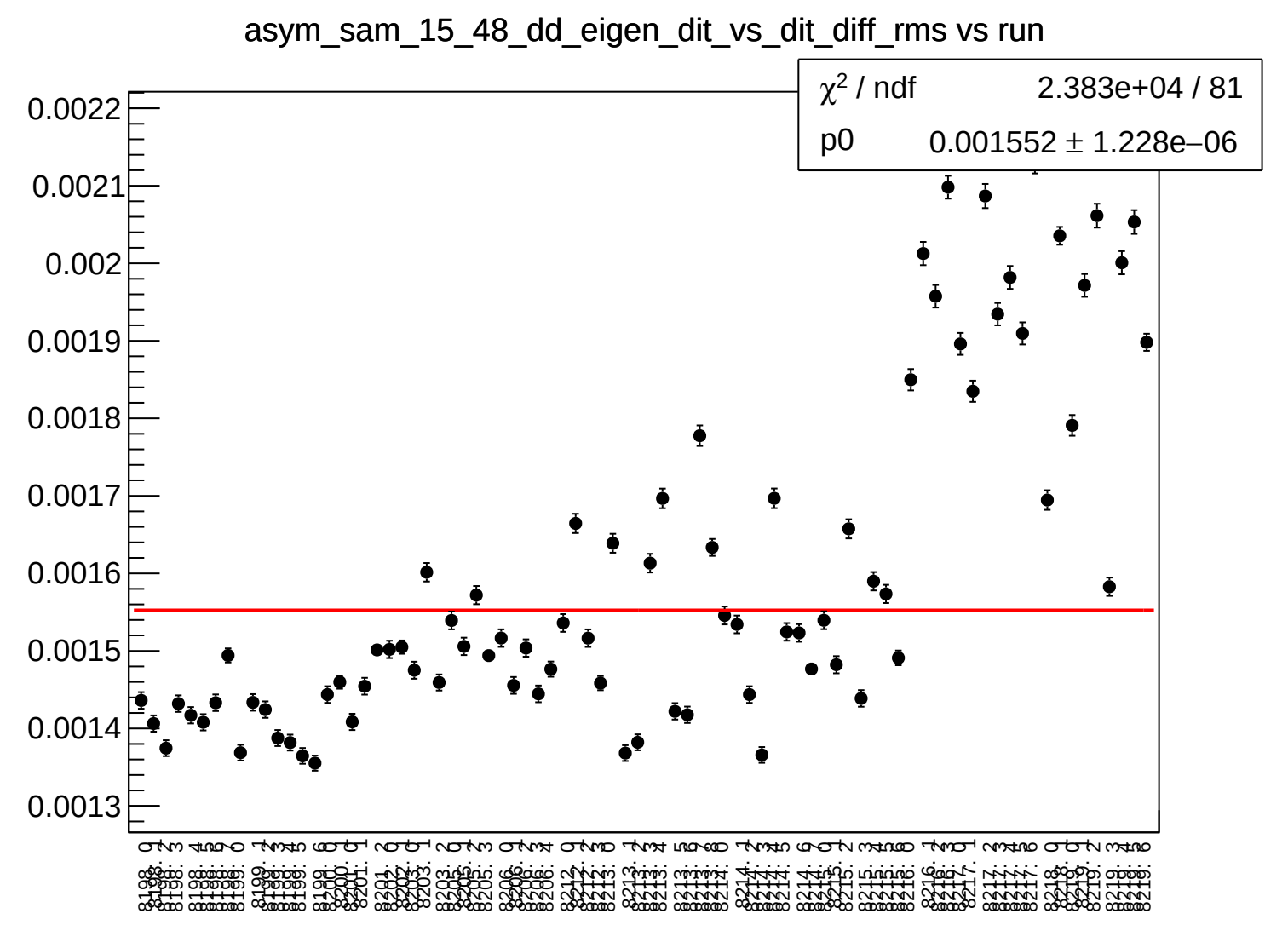

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.1 / 81
p0 0.04084 ± 0.04291
pull
Entries 82
Mean −22.14
Std Dev 0
pull1D
Entries 82
Mean −0.01256
Std Dev 0.9245

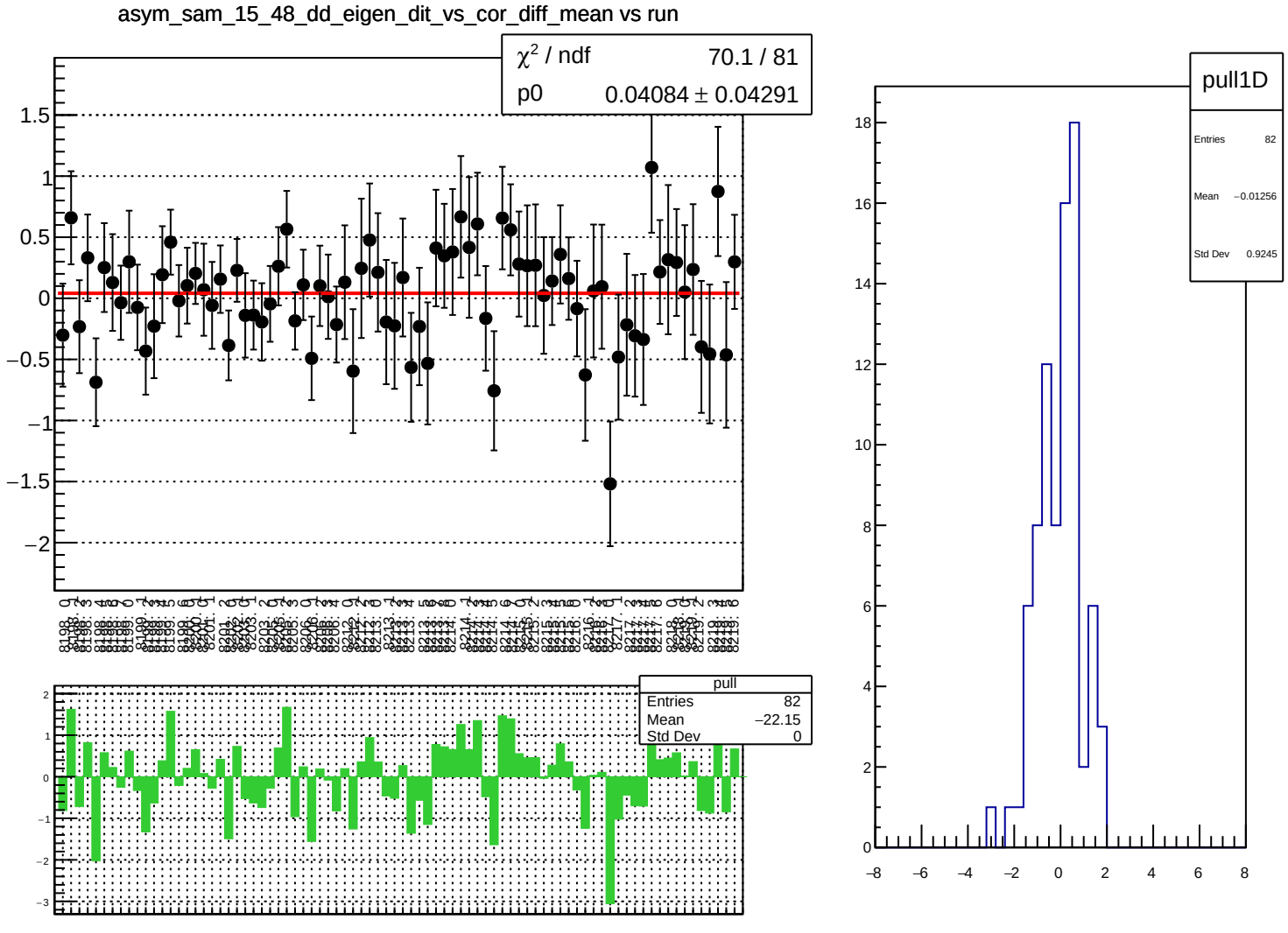

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.497e+04 / 81
p0 37.73 ± 0.03034
60
55
50
45
40
35
30
25

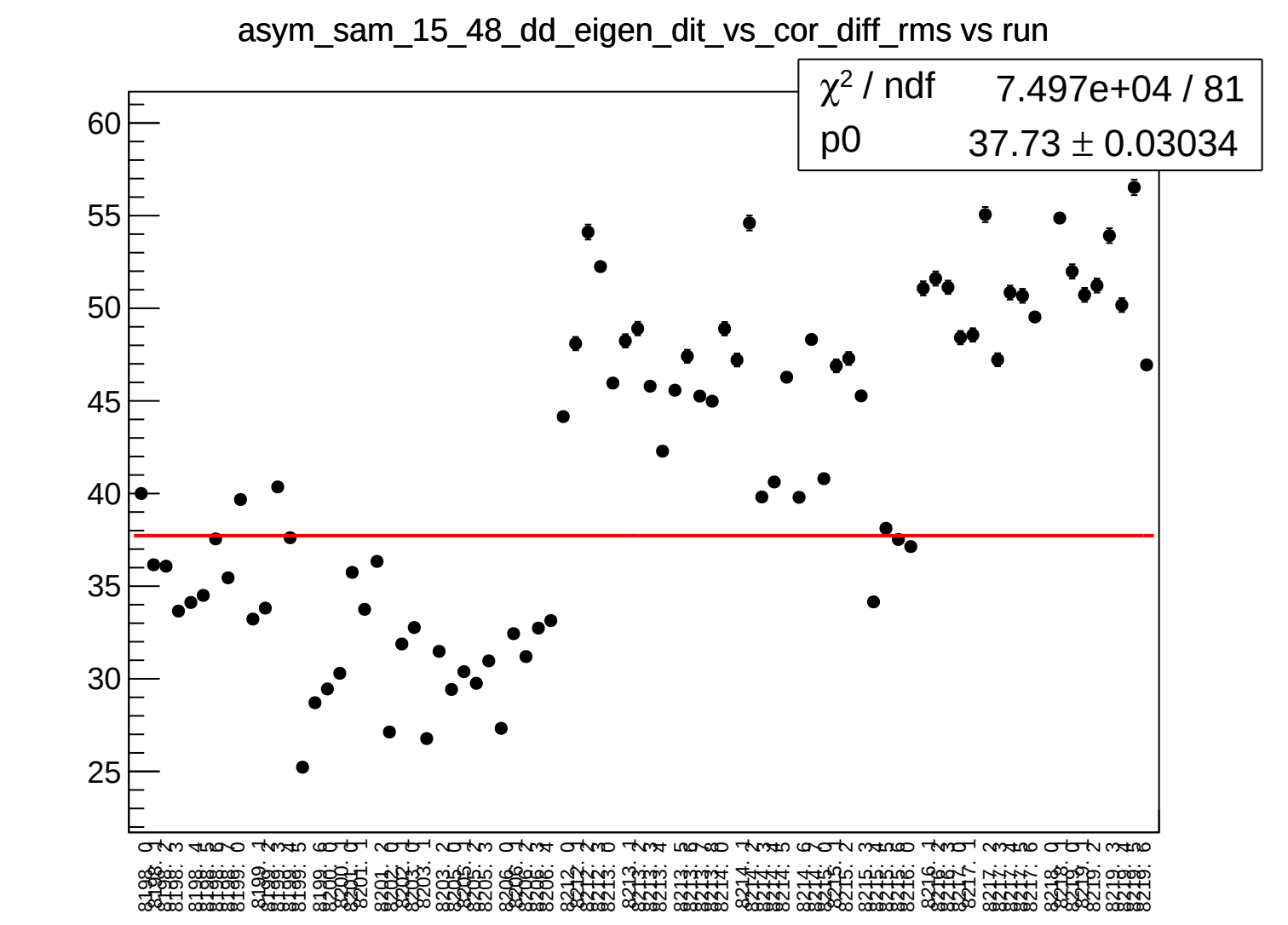

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.1 / 81
p0 0.04084 ± 0.04291
pull
Entries 82
Mean −22.14
Std Dev 0
pull1D
Entries 82
Mean −0.01256
Std Dev 0.9245

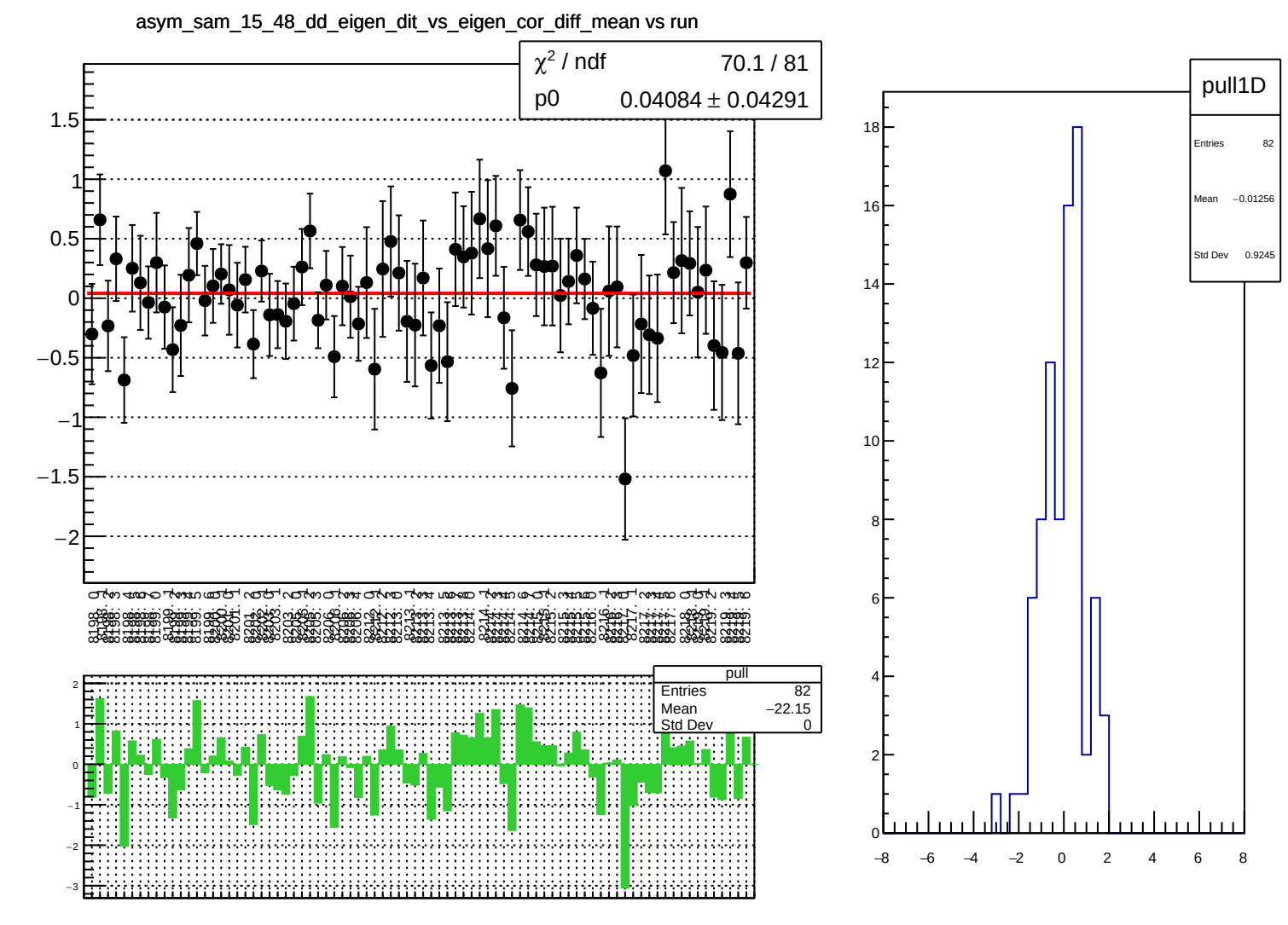

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.497e+04 / 81
p0 37.73 ± 0.03034
60
55
50
45
40
35
30
25

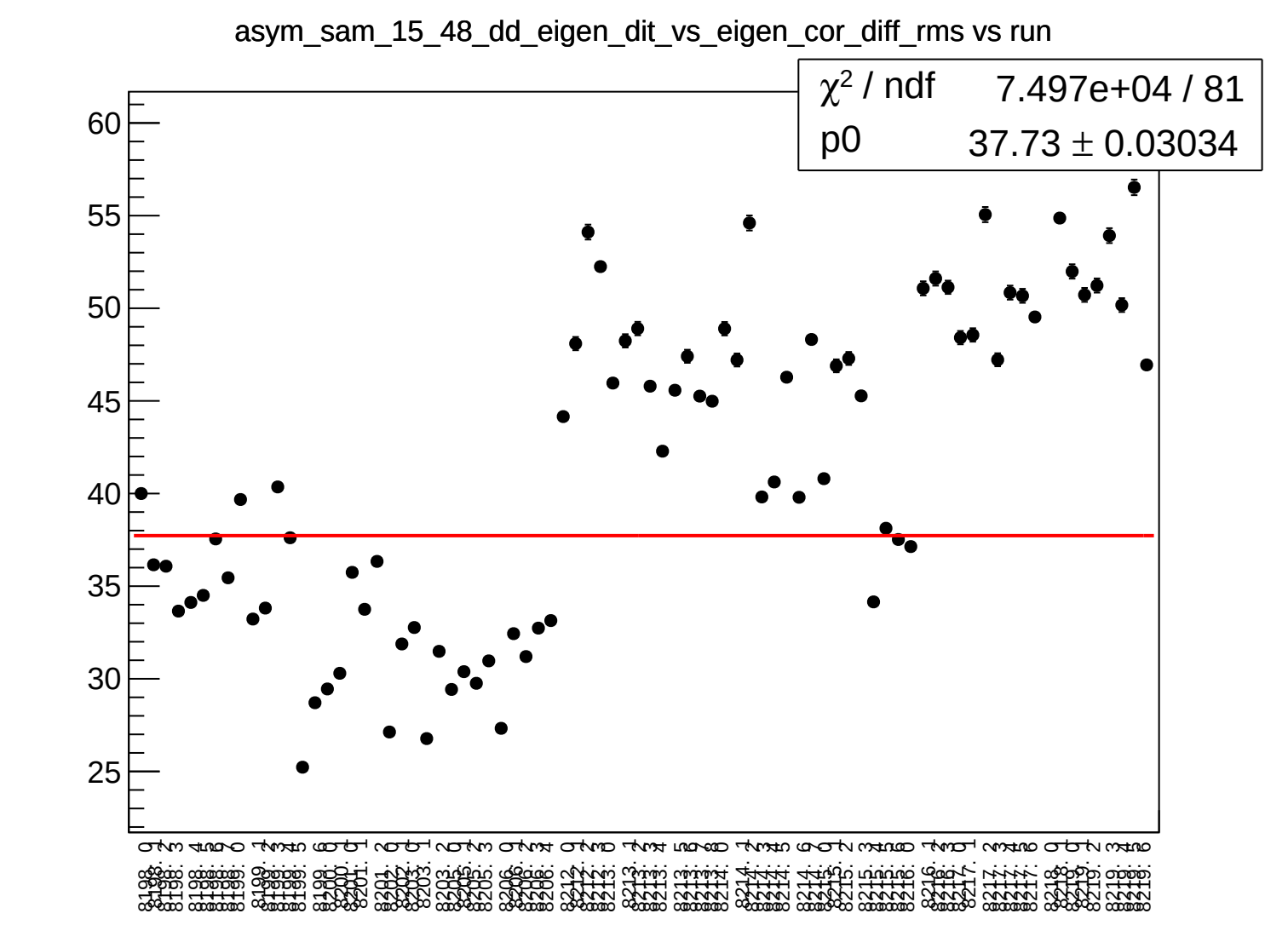

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.52 / 81
p0 4.441e−07 ± 1.737e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 82
Mean 109.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01995
Std Dev 0.9721
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

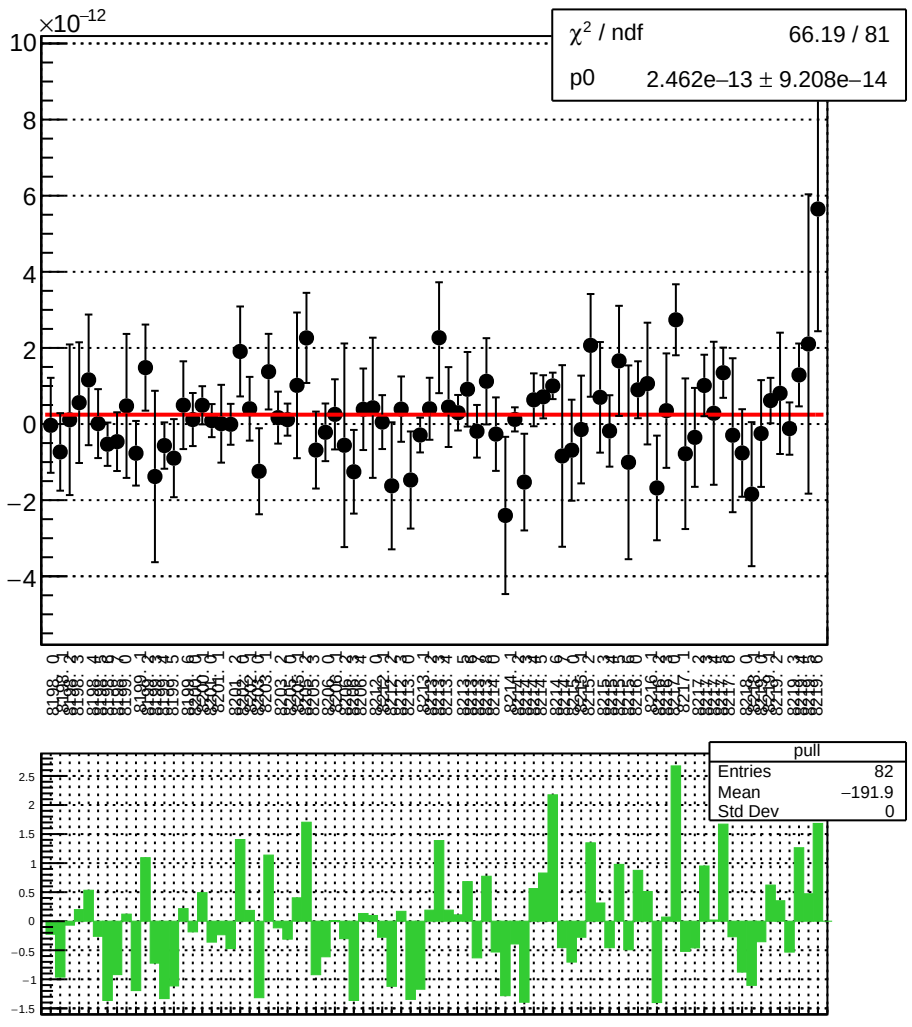

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.383e+04 / 81
p0 0.001552 ± 1.228e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

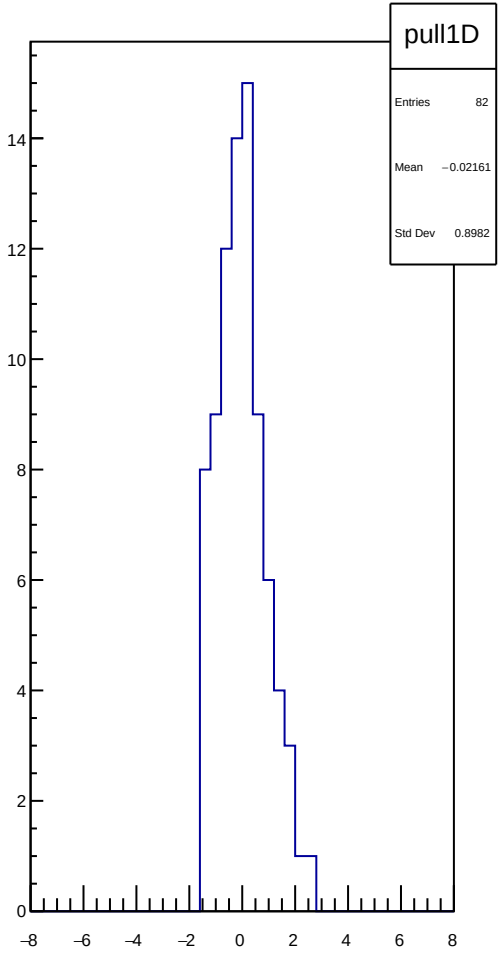

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.1 / 81
p0 0.04084 ± 0.04291
pull
Entries 82
Mean −22.15
Std Dev 0
pull1D
Entries 82
Mean −0.01256
Std Dev 0.9245

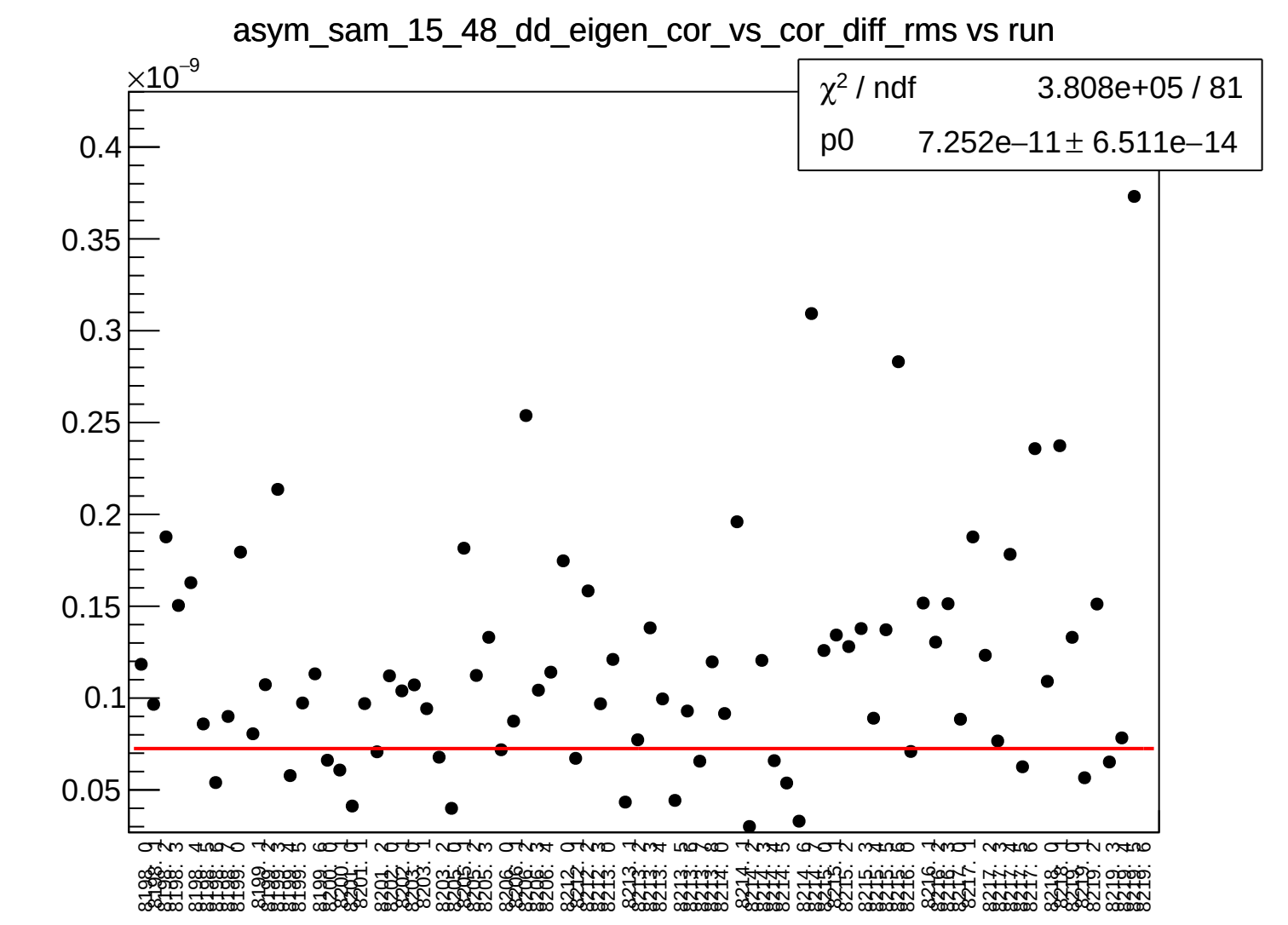

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.497e+04 / 81
p0 37.73 ± 0.03034
60
55
50
45
40
35
30
25

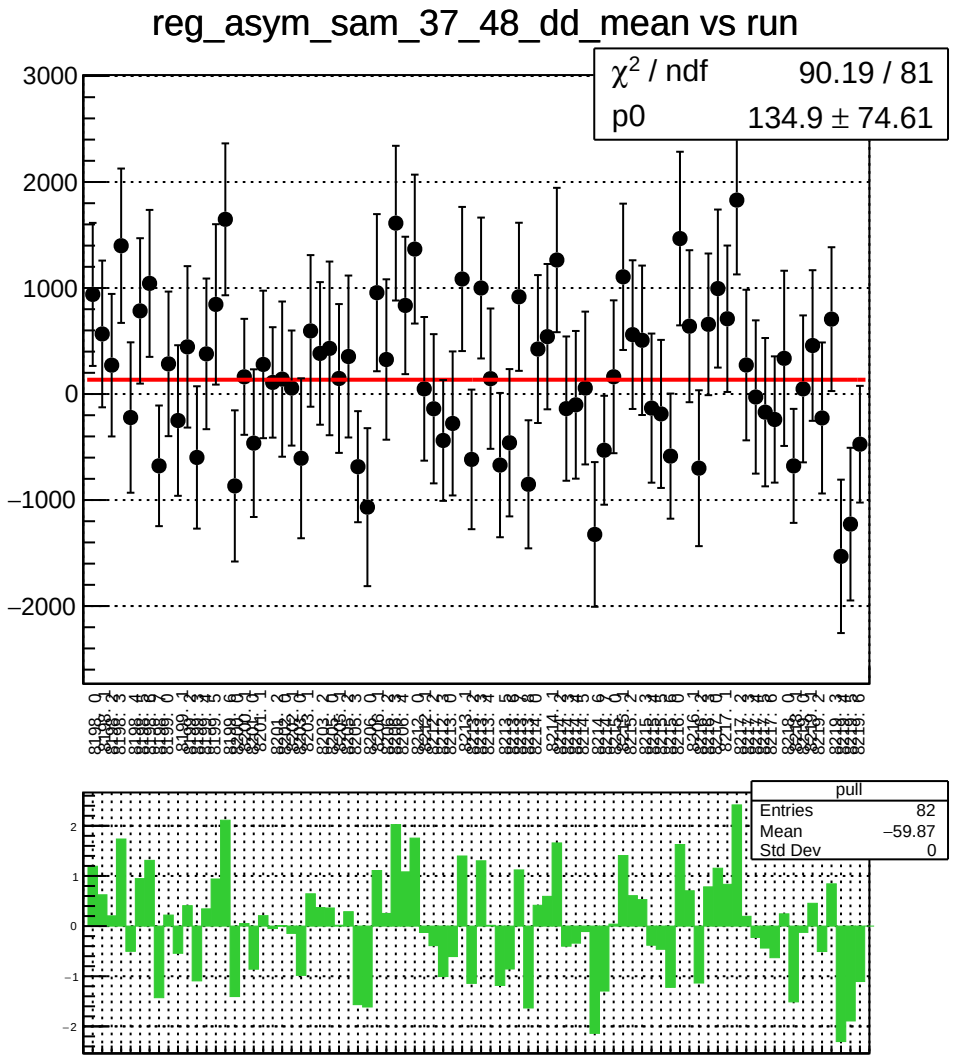

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.1 / 81
p0 0.04084 ± 0.04291
pull
Entries 82
Mean −22.15
Std Dev 0
pull1D
Entries 82
Mean −0.01256
Std Dev 0.9245

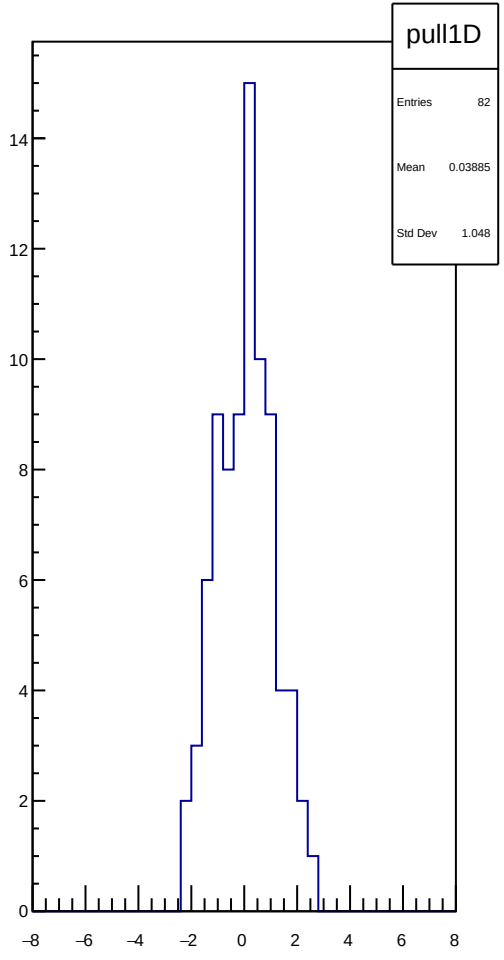

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.497e+04 / 81
p0 37.73 ± 0.03034
60
55
50
45
40
35
30
25

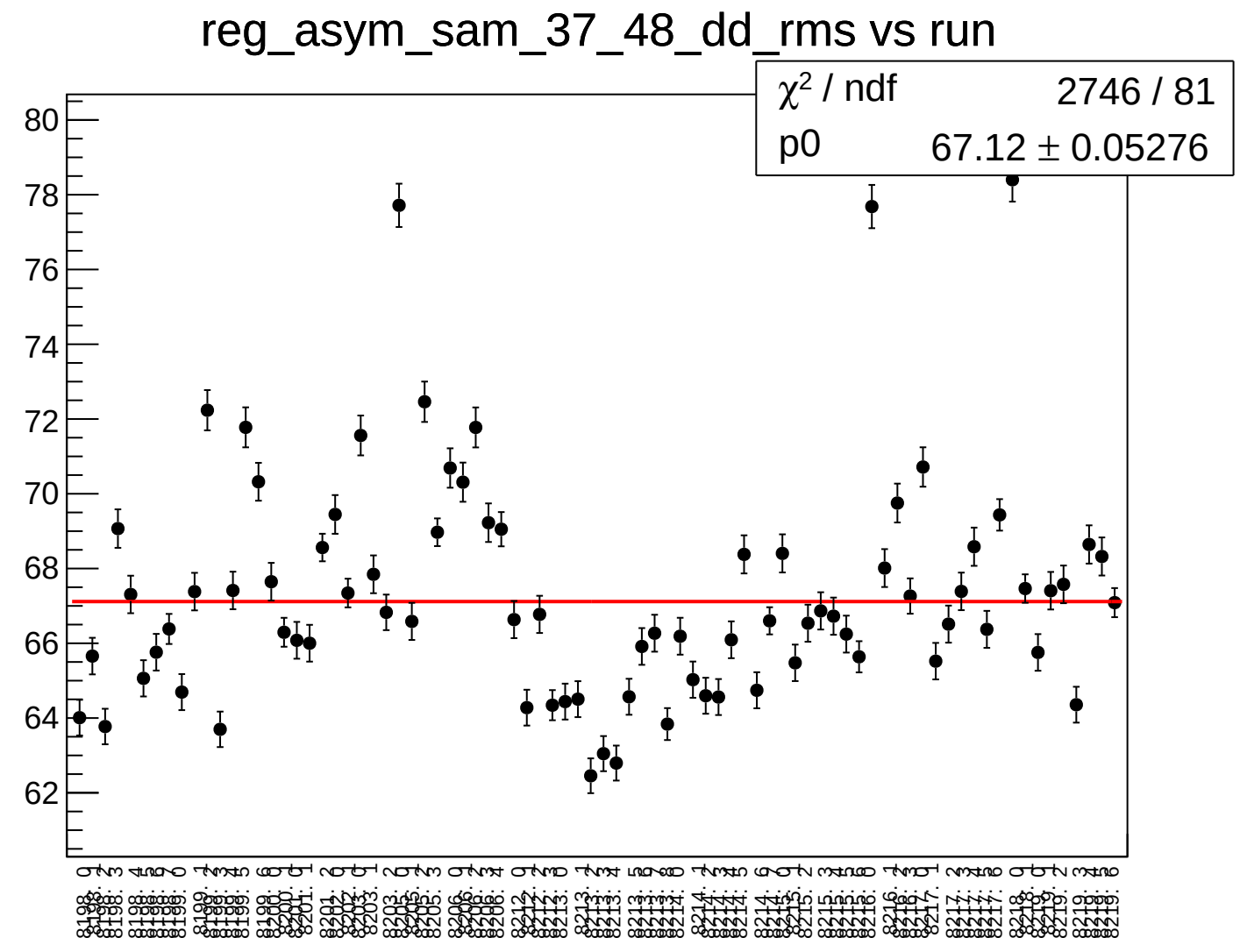

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.19 / 81
p0 2.462e−13 ± 9.208e−14
pull
Entries 82
Mean −191.9
Std Dev 0

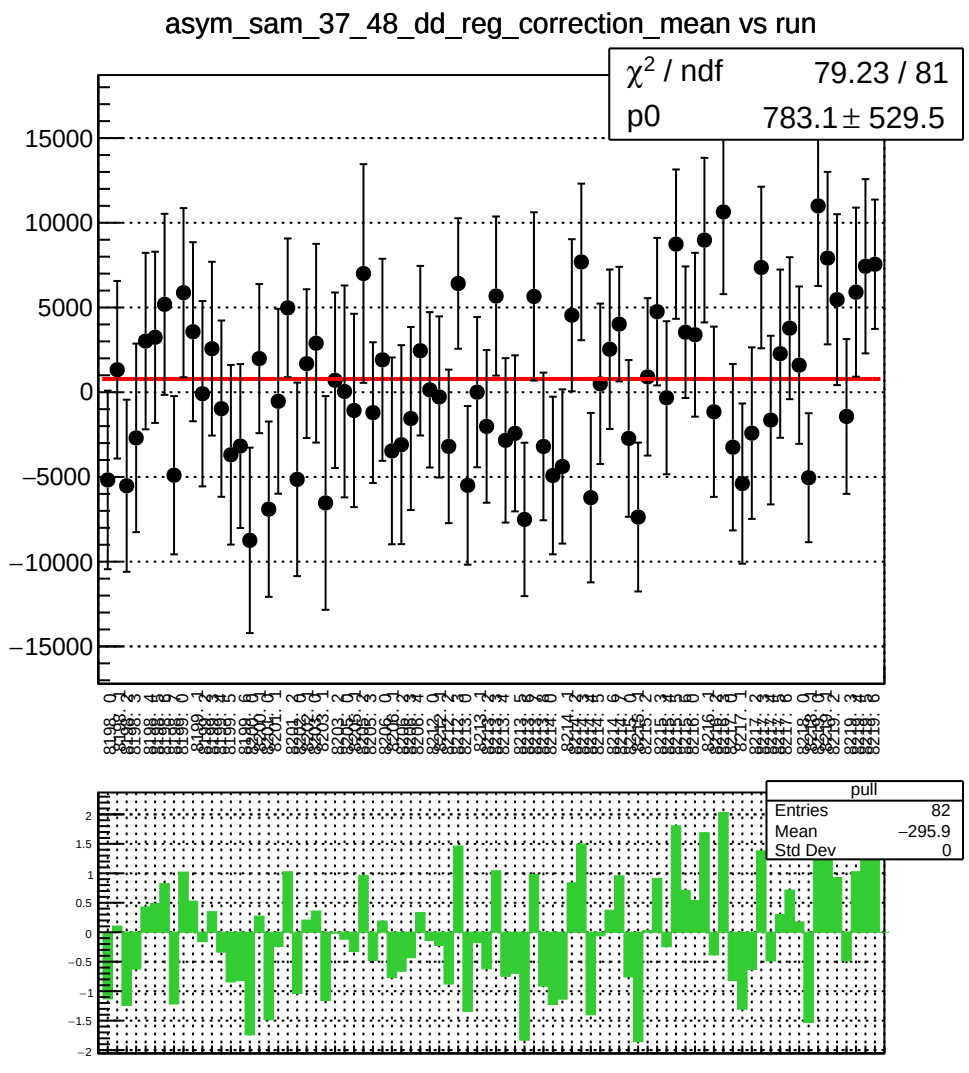

pull1D
Entries 82
Mean −0.02161
Std Dev 0.8982

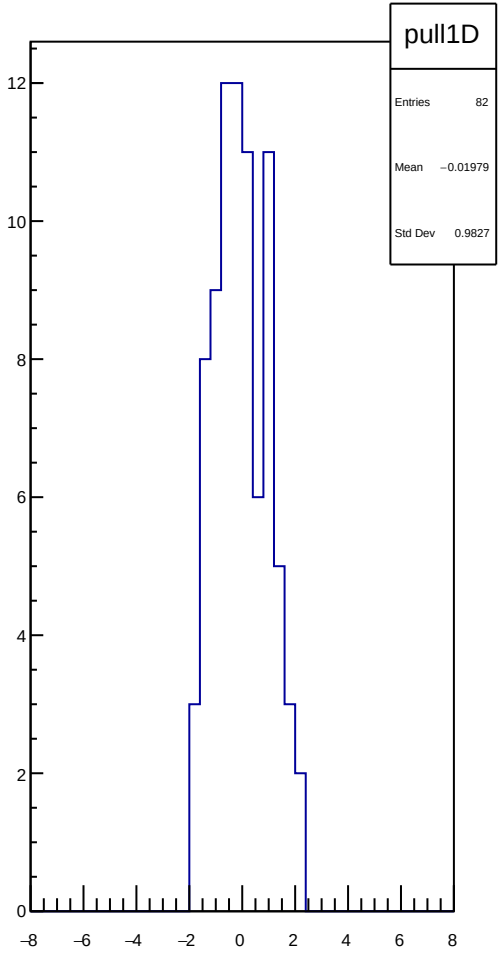

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.808e+05 / 81
p0 7.252e−11 ± 6.511e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

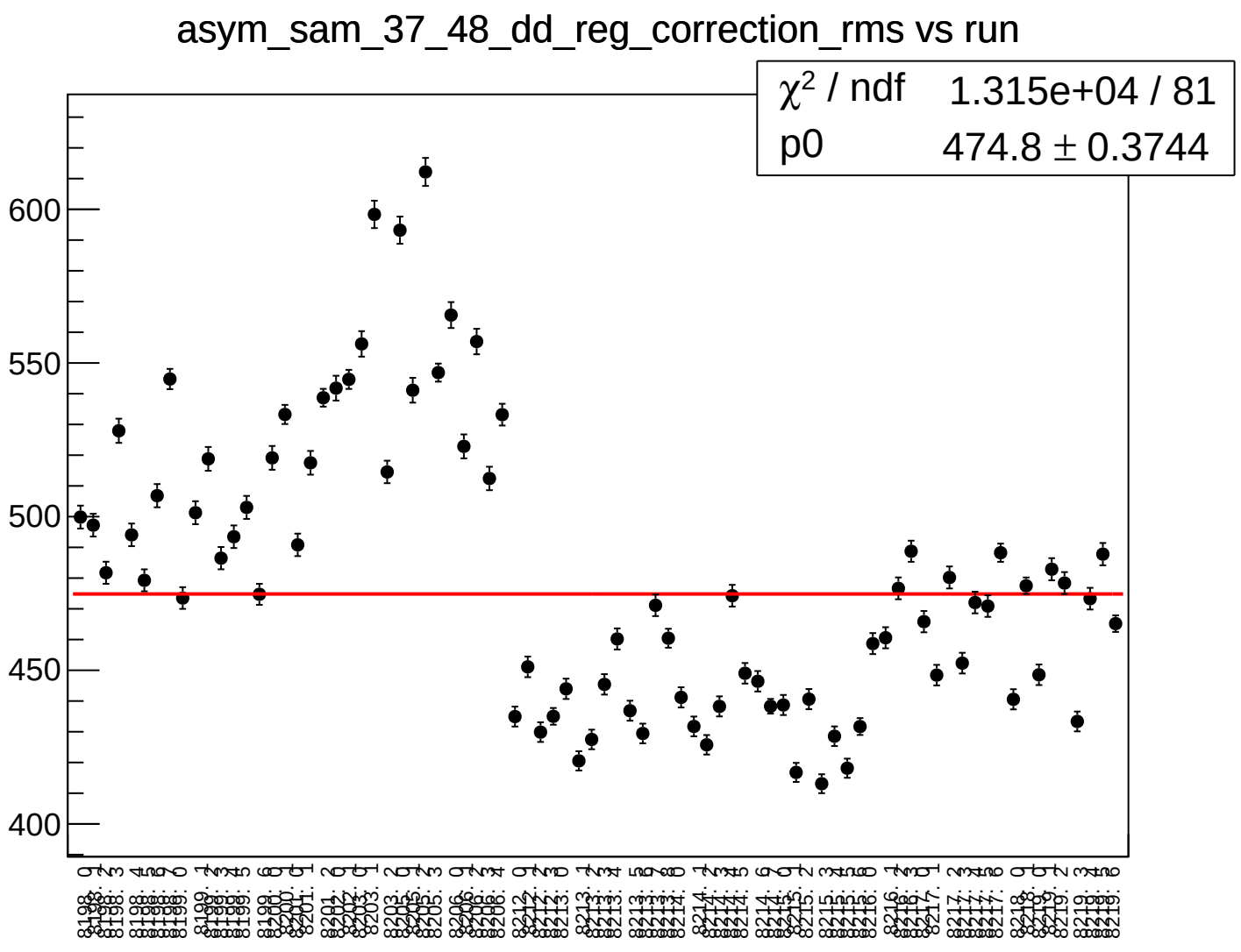

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.19 / 81
p0 134.9 ± 74.61
3000
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −59.87
Std Dev 0
2
1
0
−1
−2

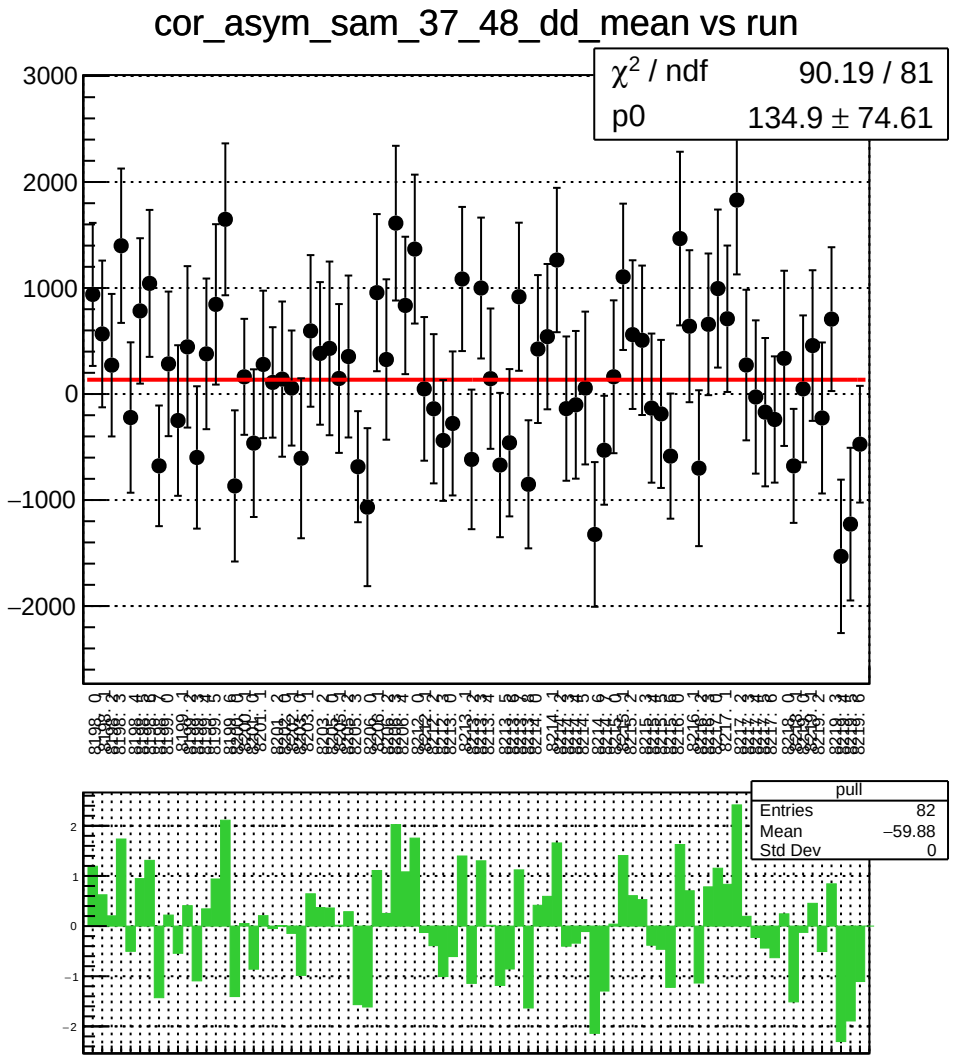

pull1D
Entries 82
Mean 0.03885
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

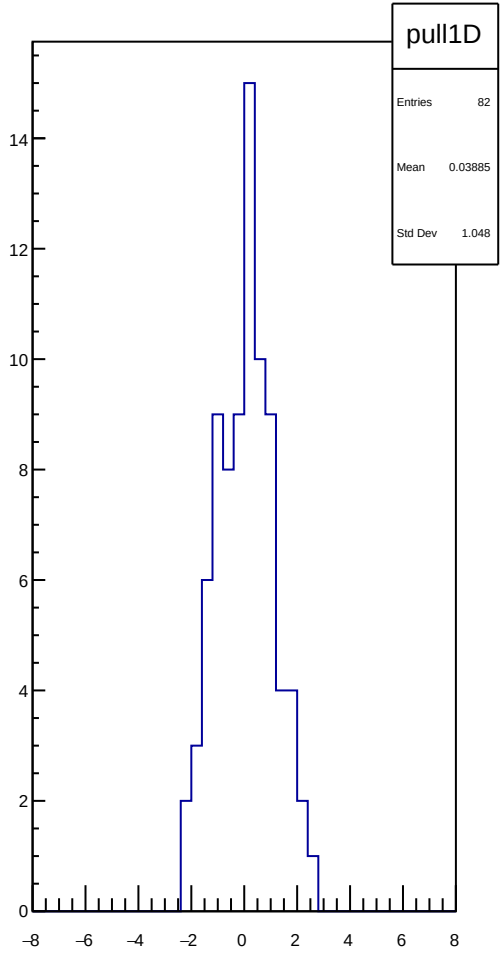

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 2746 / 81
p0 67.12 ± 0.05276
80
78
76
74
72
70
68
66
64
62

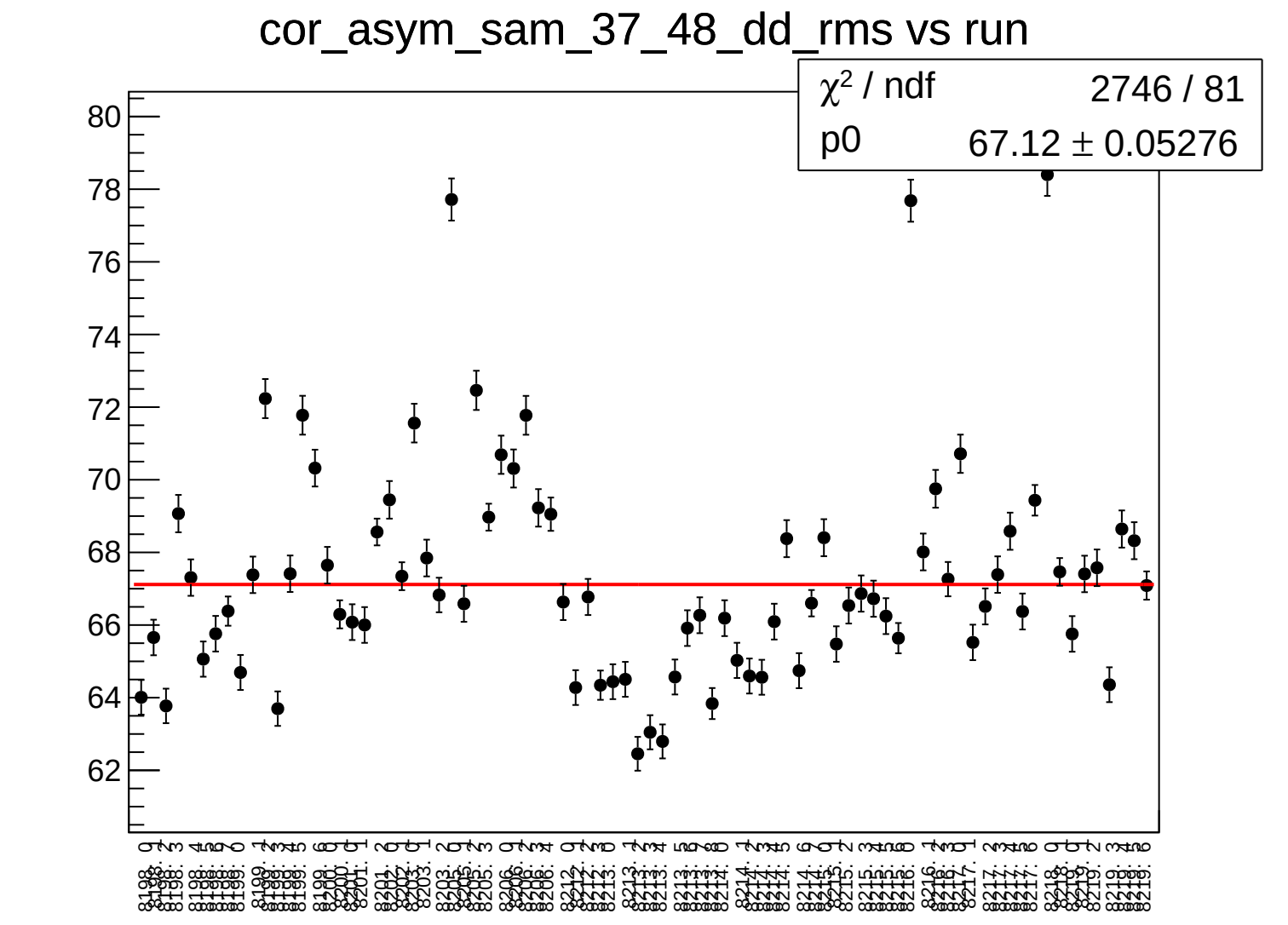

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 79.23 / 81
p0 783.1 ± 529.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −295.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

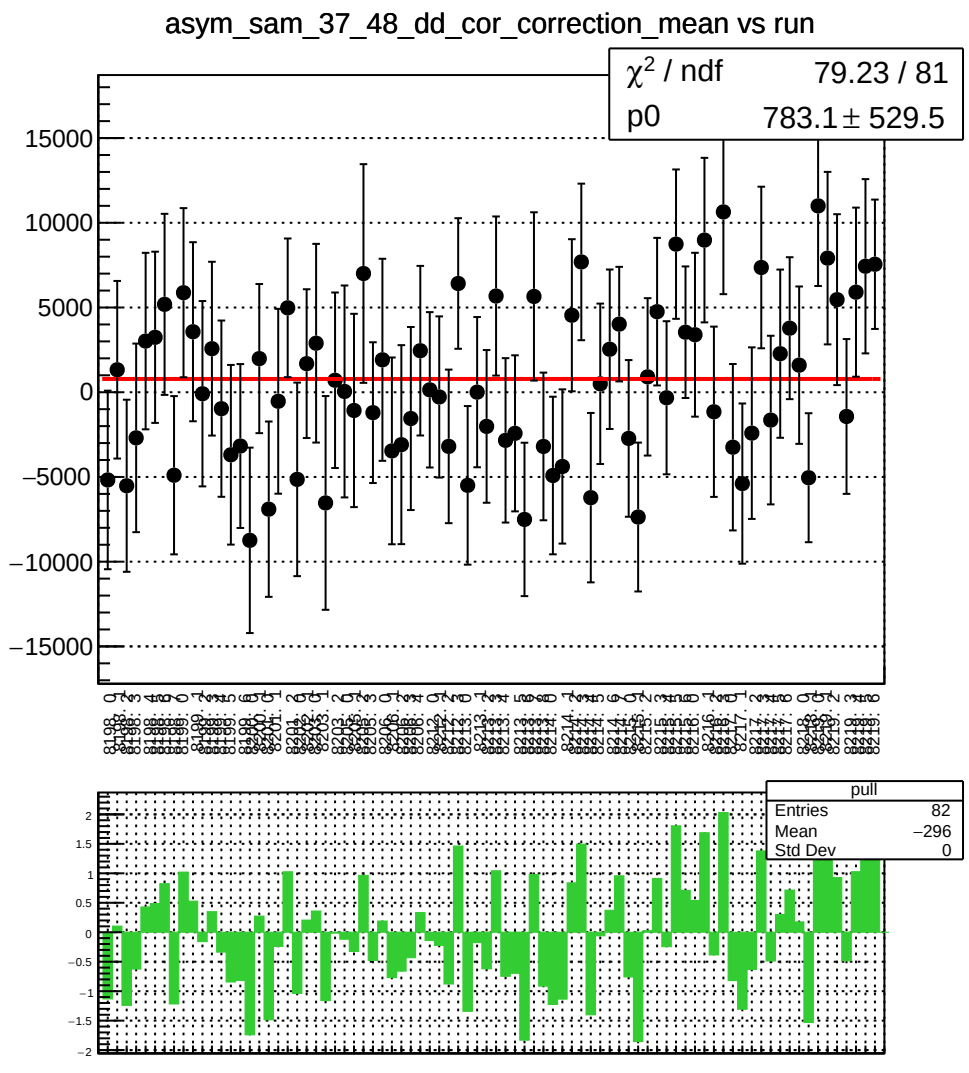

pull1D
Entries 82
Mean −0.01979
Std Dev 0.9827
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

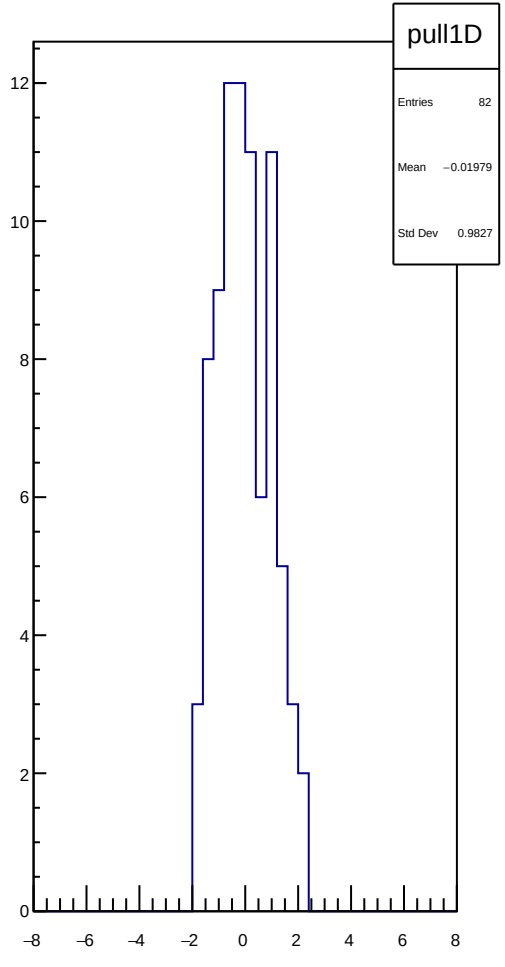

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1.315e+04 / 81
p0 474.8 ± 0.3744
600
550
500
450
400

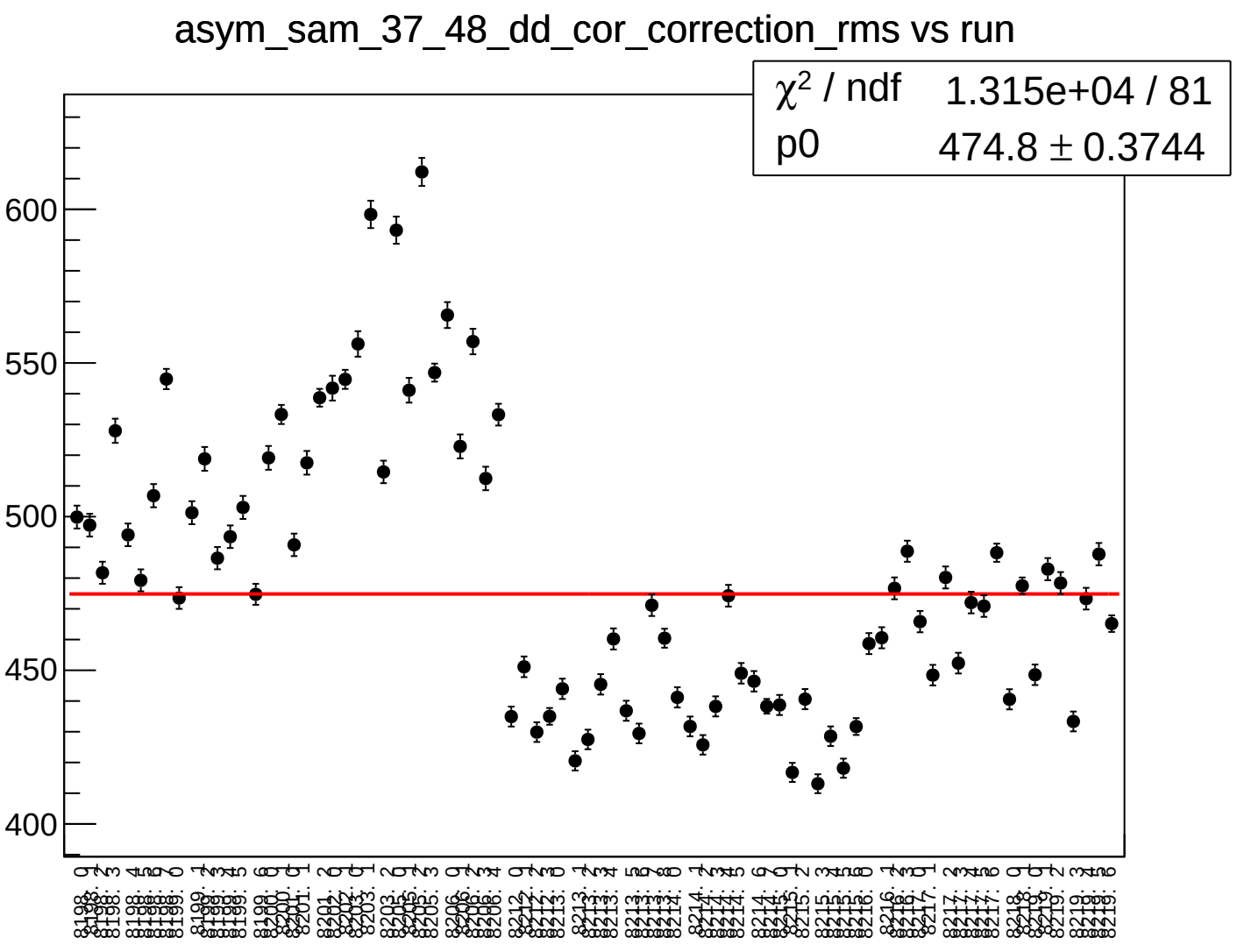

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.19 / 81
p0 134.9 ± 74.61
3000
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −59.88
Std Dev 0
2
1
0
−1
−2

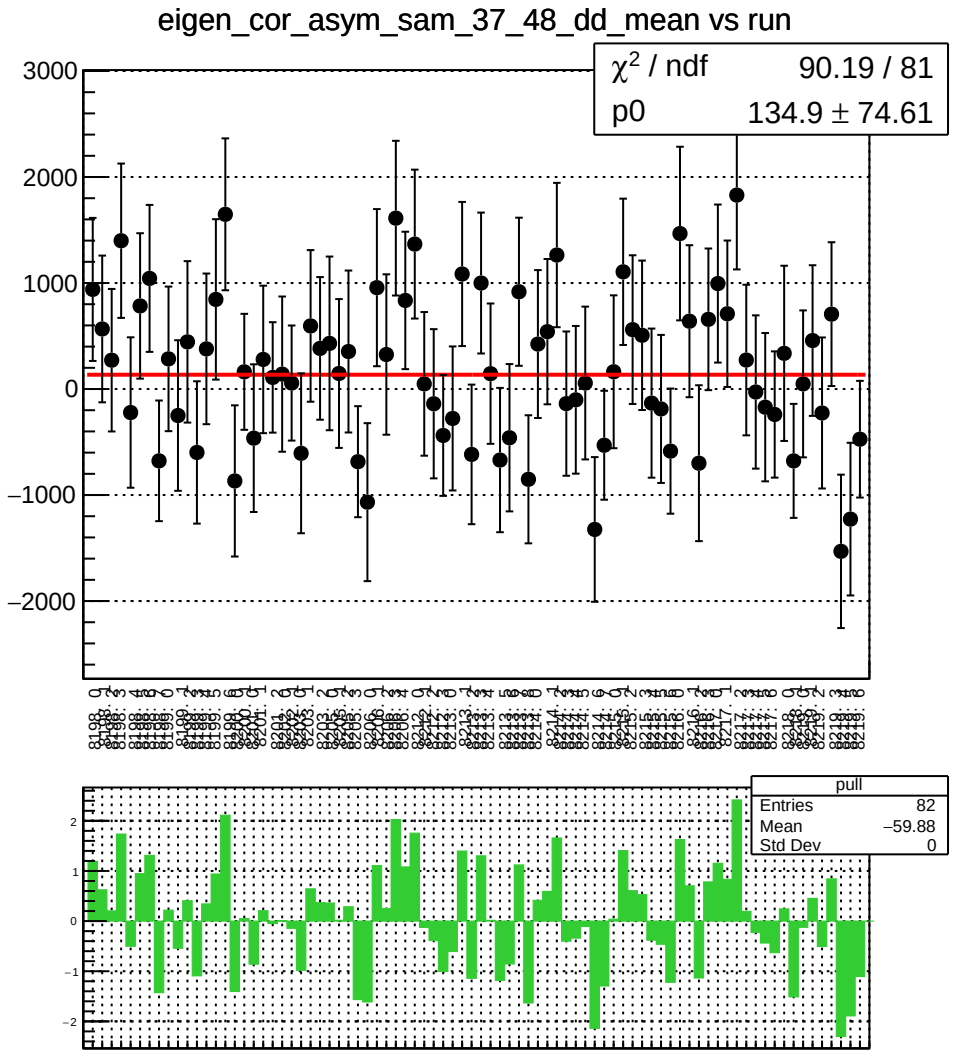

pull1D
Entries 82
Mean 0.03885
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

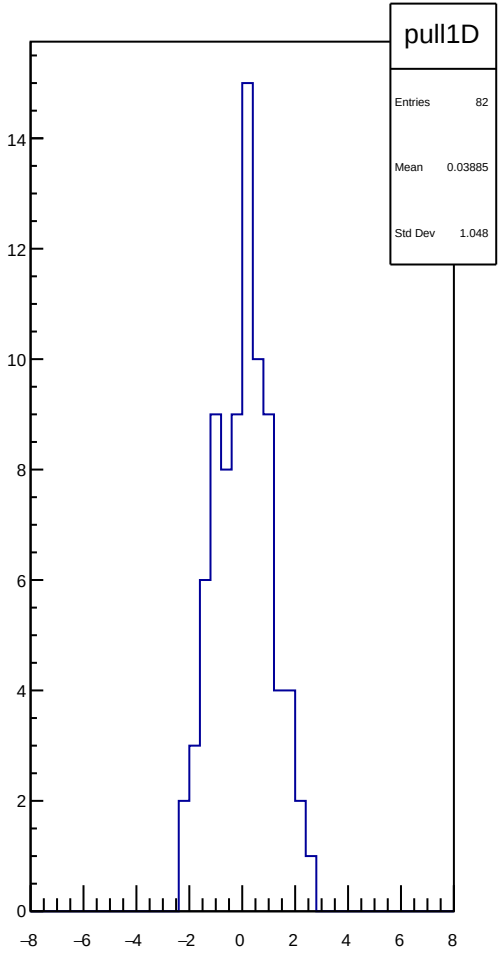

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2746 / 81
p0 67.12 ± 0.05276
80
78
76
74
72
70
68
66
64
62

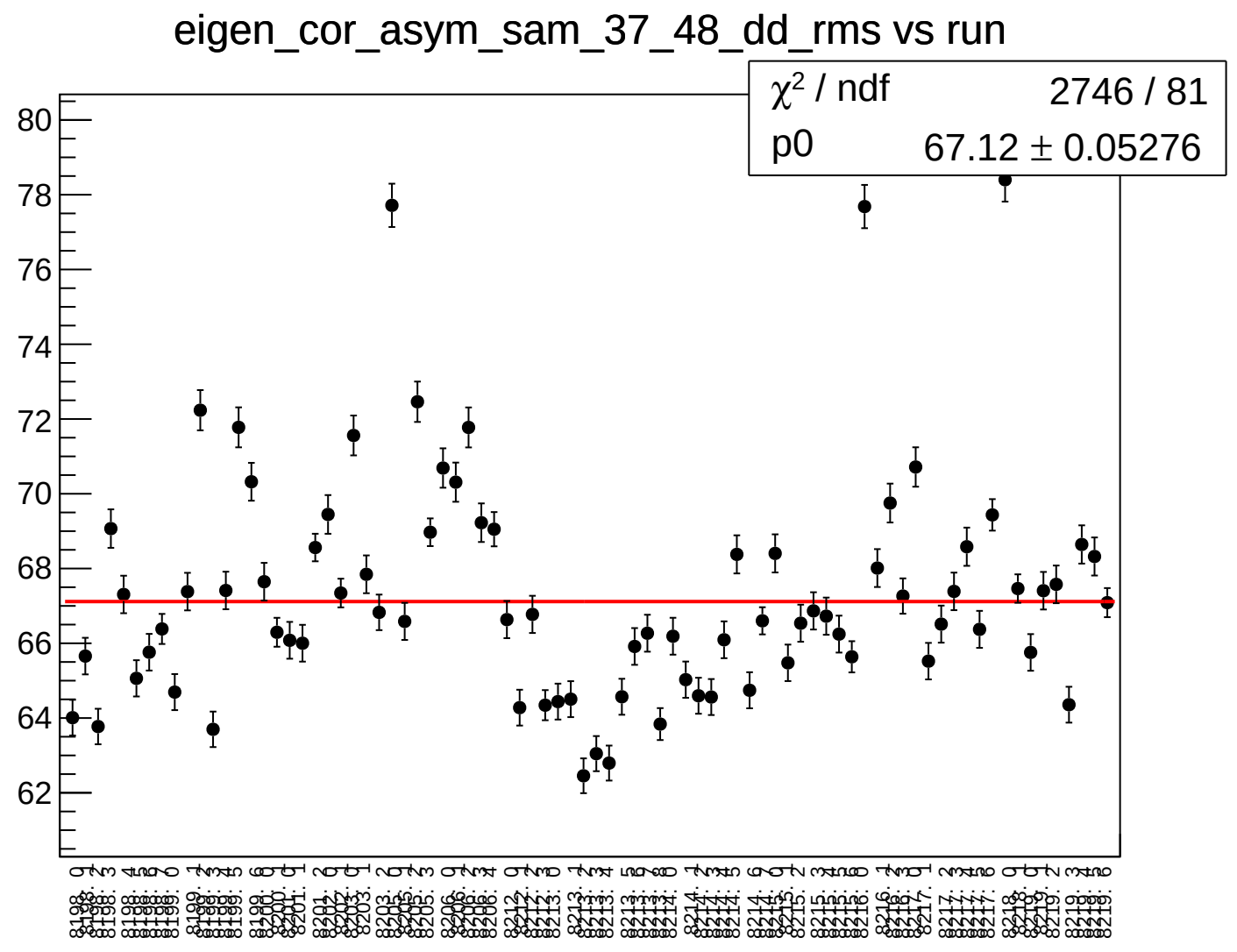

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 79.23 / 81
p0 783.1 ± 529.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −296
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

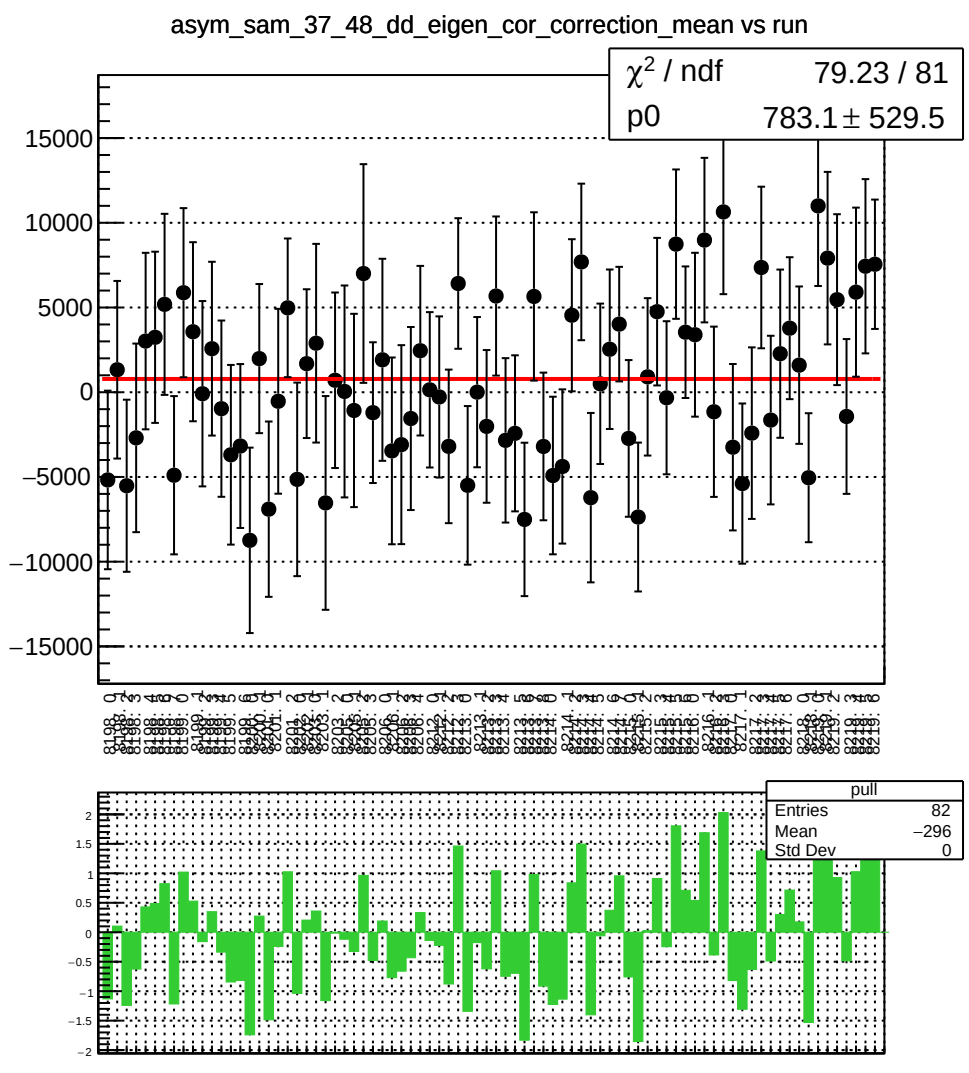

pull1D
Entries 82
Mean −0.01979
Std Dev 0.9827
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

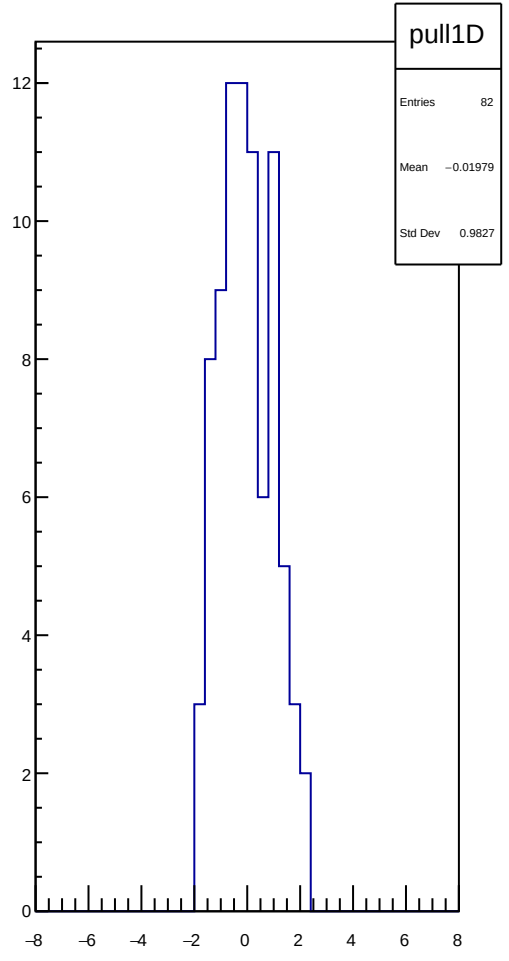

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1.315e+04 / 81
p0 474.8 ± 0.3744
600
550
500
450
400

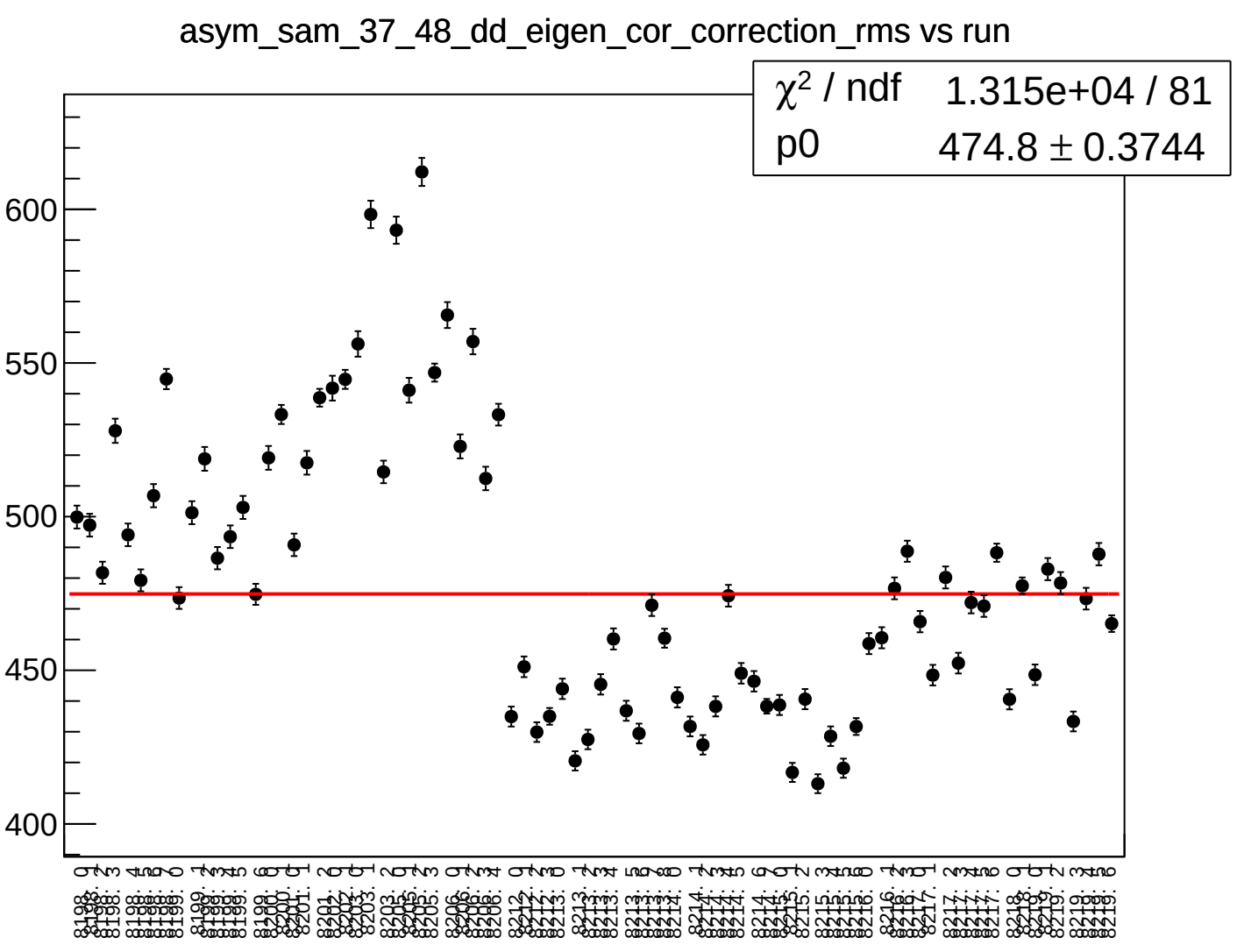

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.19 / 81
p0 134.9 ± 74.61
pull
Entries 82
Mean −59.88
Std Dev 0

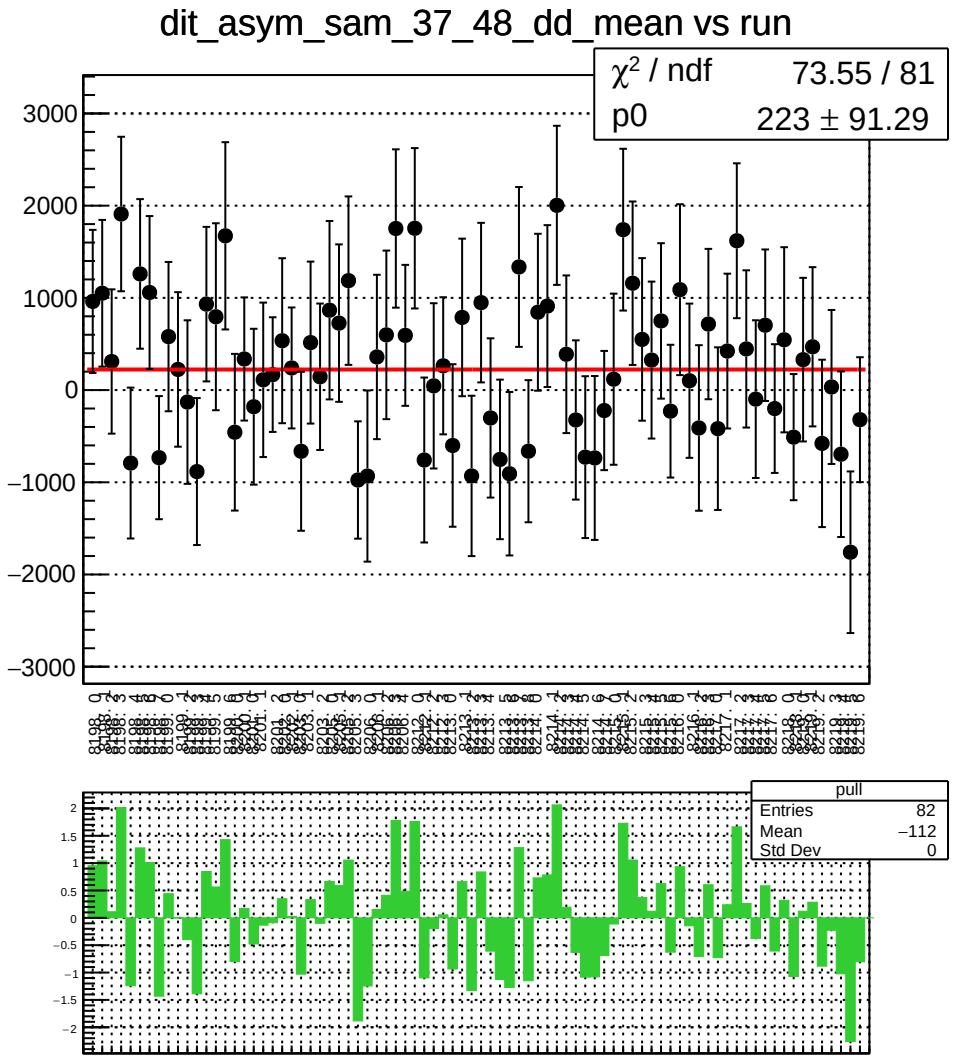

pull1D
Entries 82
Mean 0.03885
Std Dev 1.048

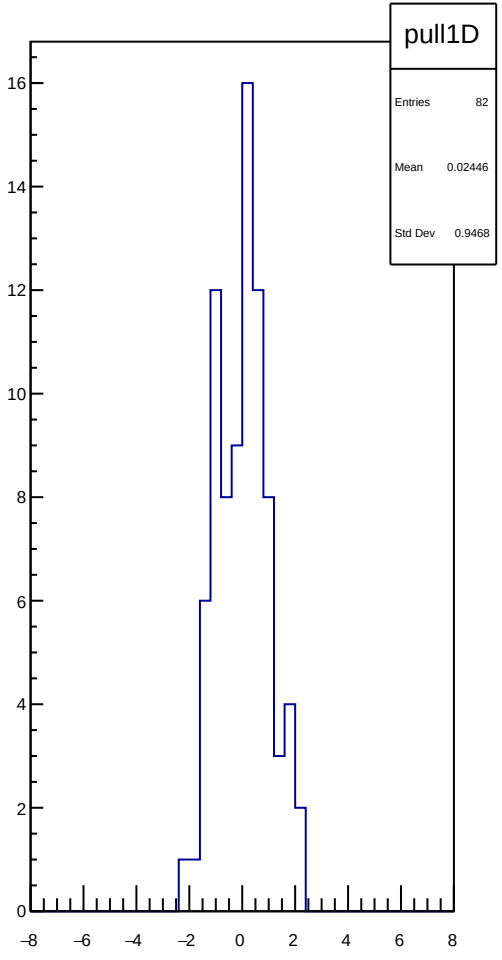

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2746 / 81
p0 67.12 ± 0.05276
80
78
76
74
72
70
68
66
64
62

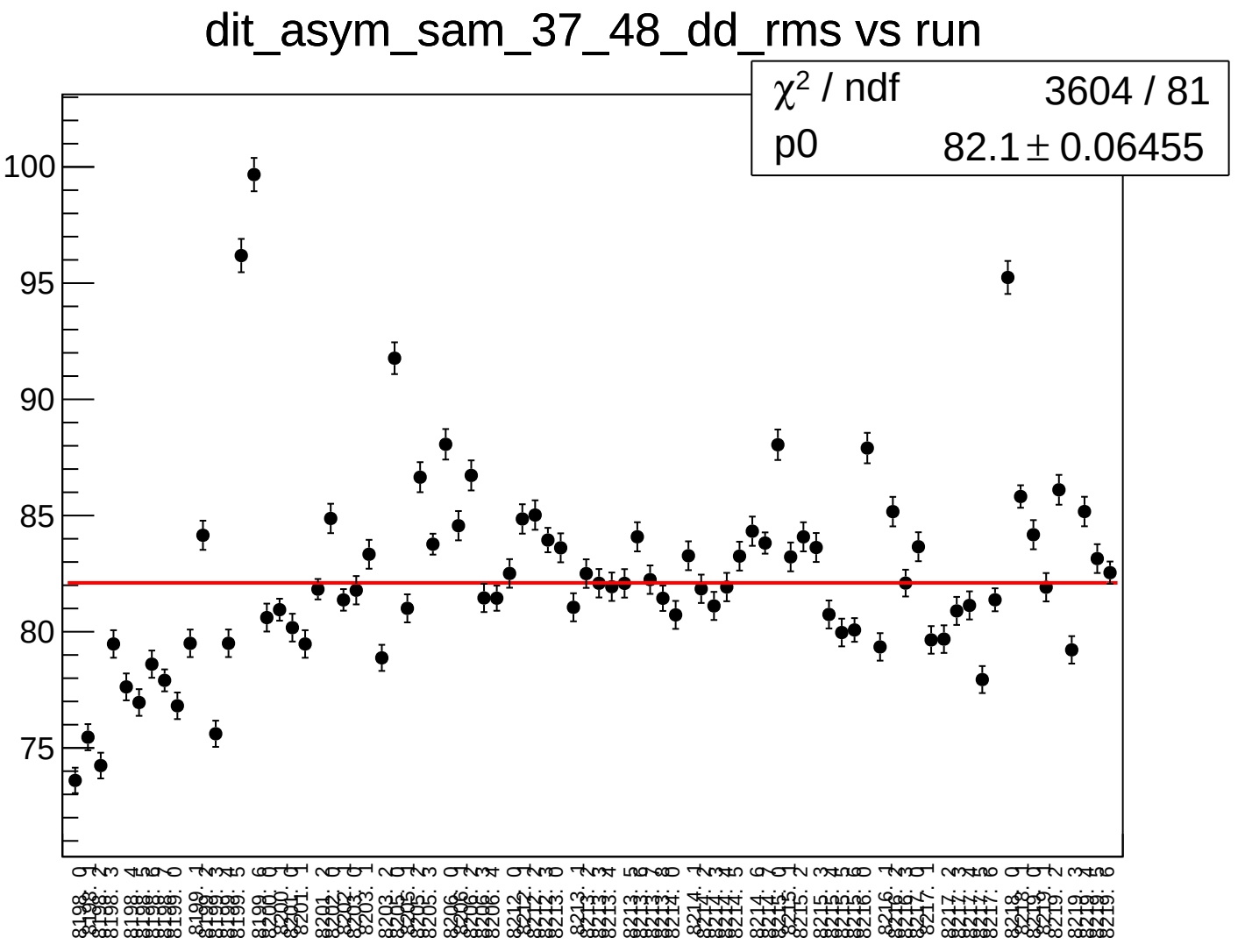

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.23 / 81
p0 783.1 ± 529.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −296
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

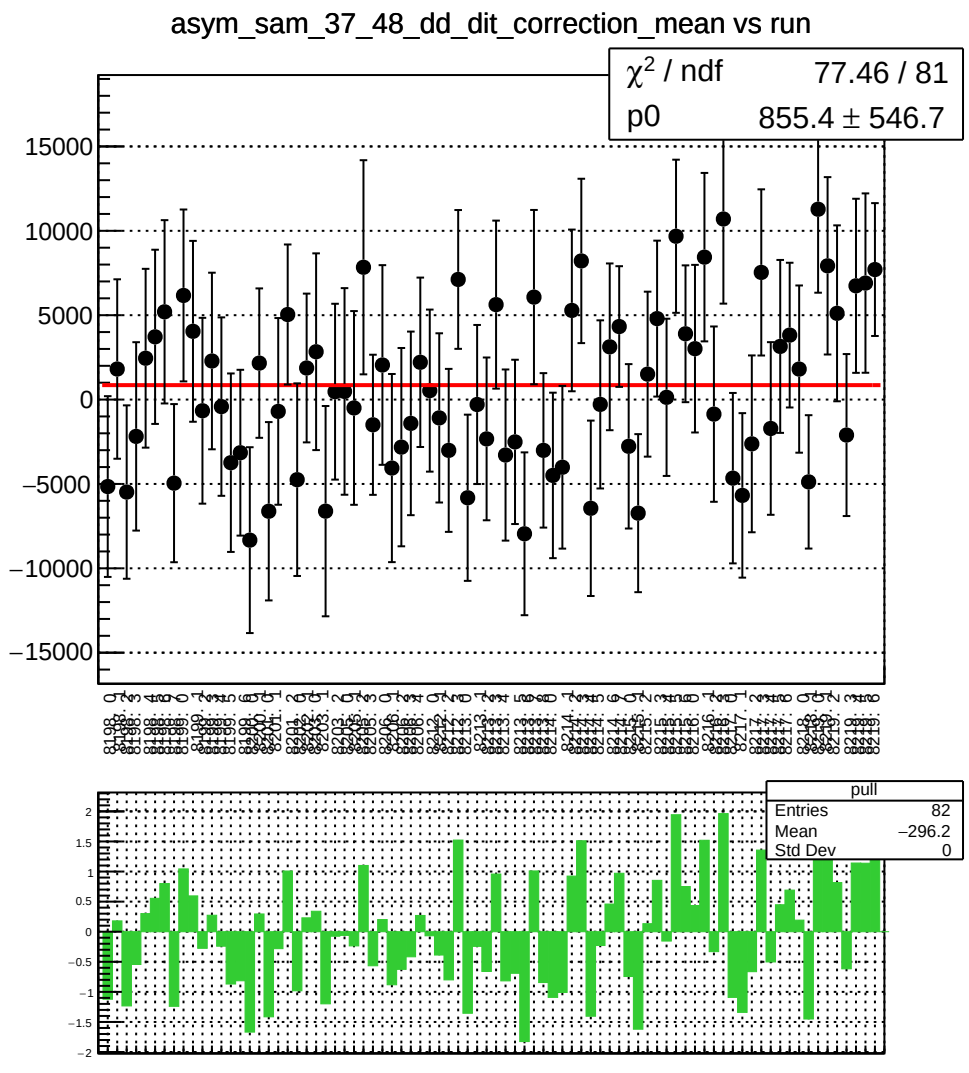

pull1D
Entries 82
Mean −0.01979
Std Dev 0.9827
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

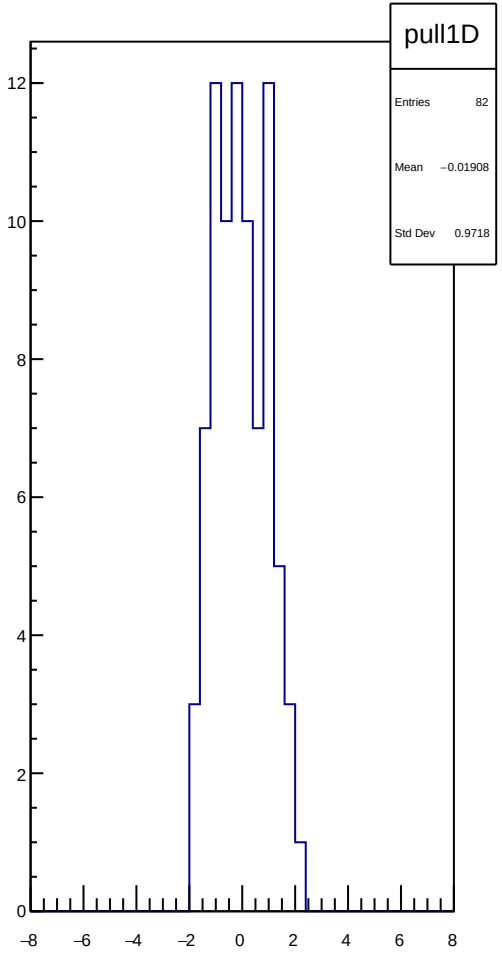

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.315e+04 / 81
p0 474.8 ± 0.3744
600
550
500
450
400

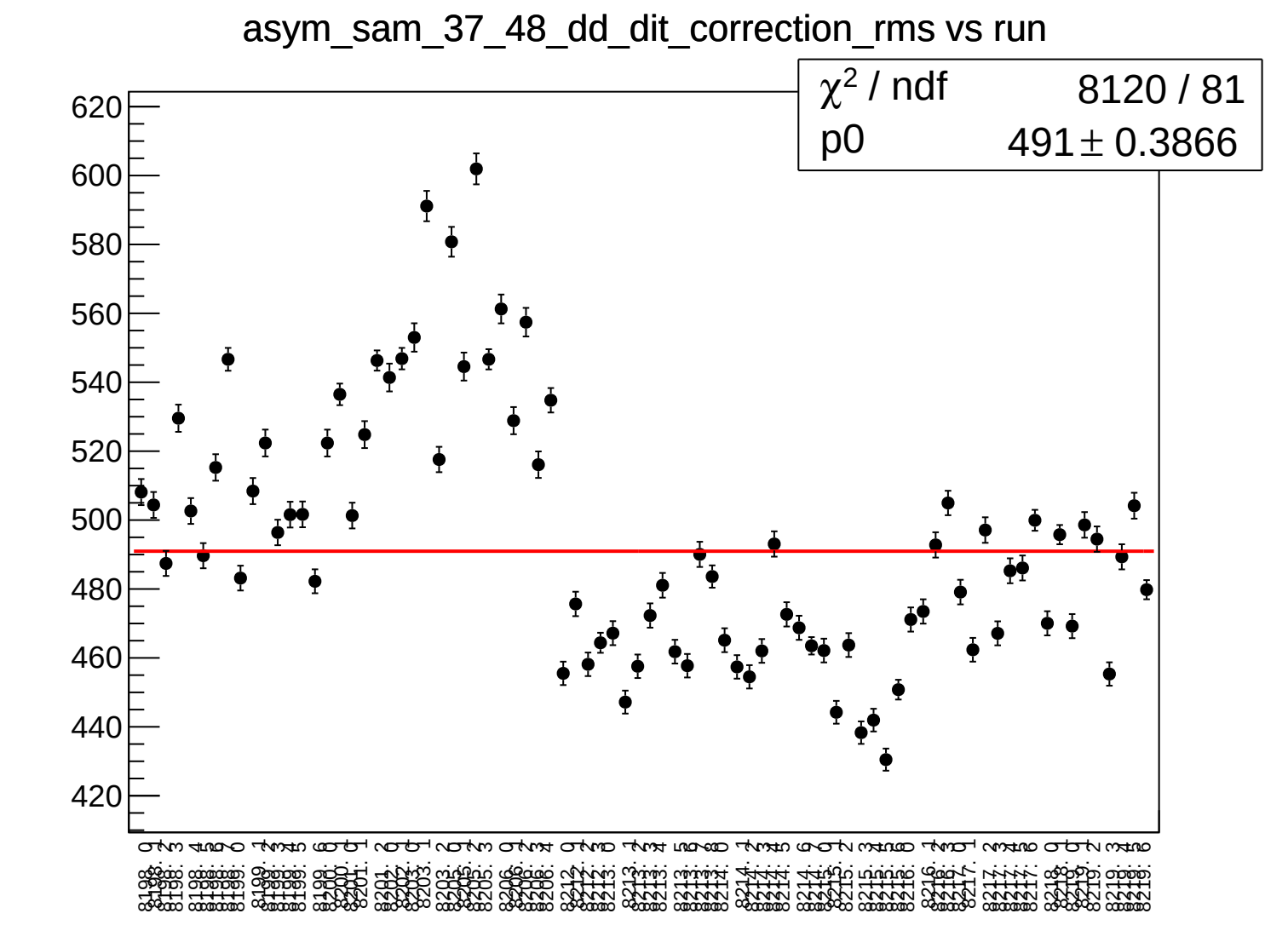

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 73.55 / 81
p0 223 ± 91.29
pull
Entries 82
Mean −112
Std Dev 0

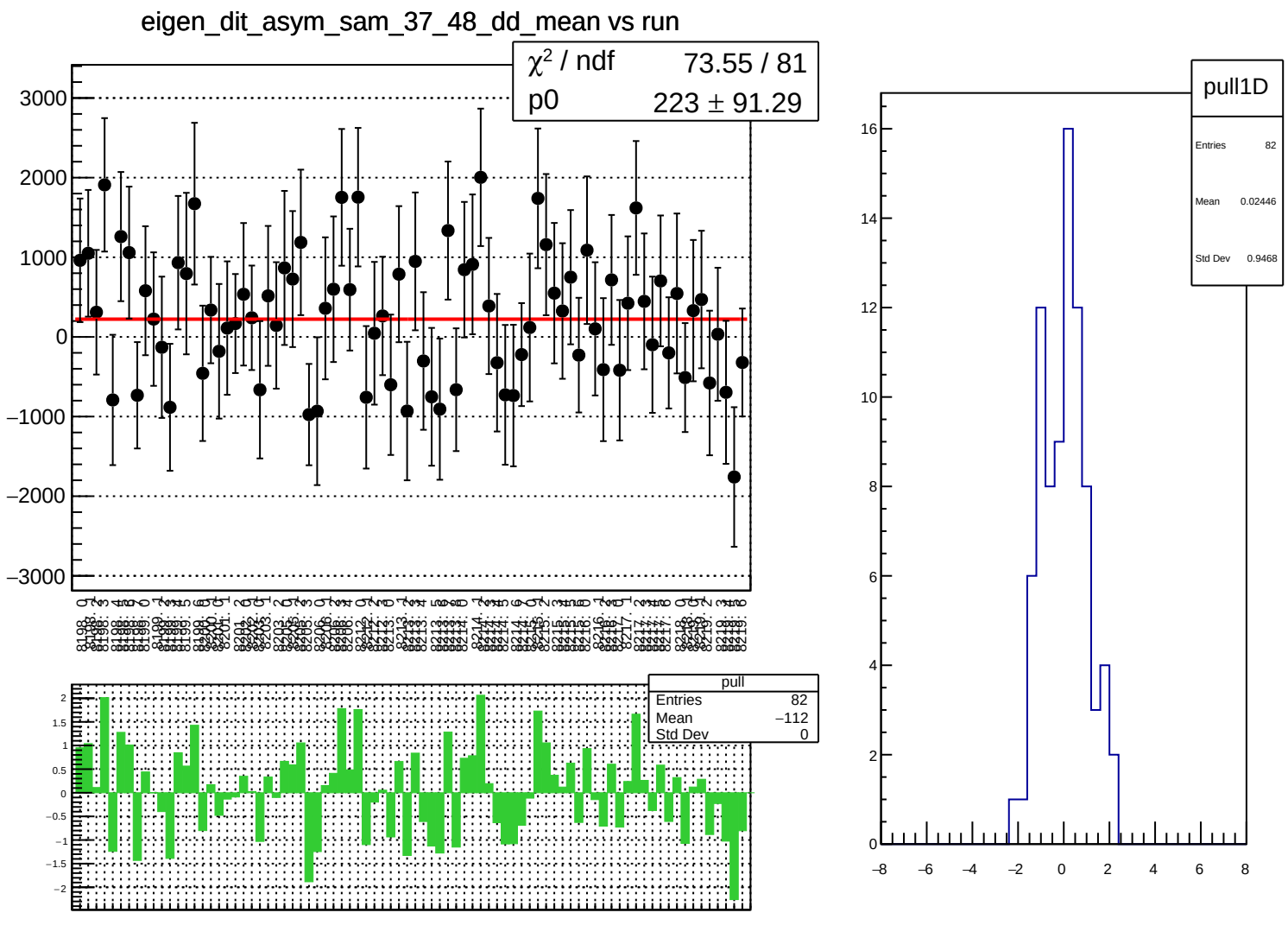

pull1D
Entries 82
Mean 0.02446
Std Dev 0.9468

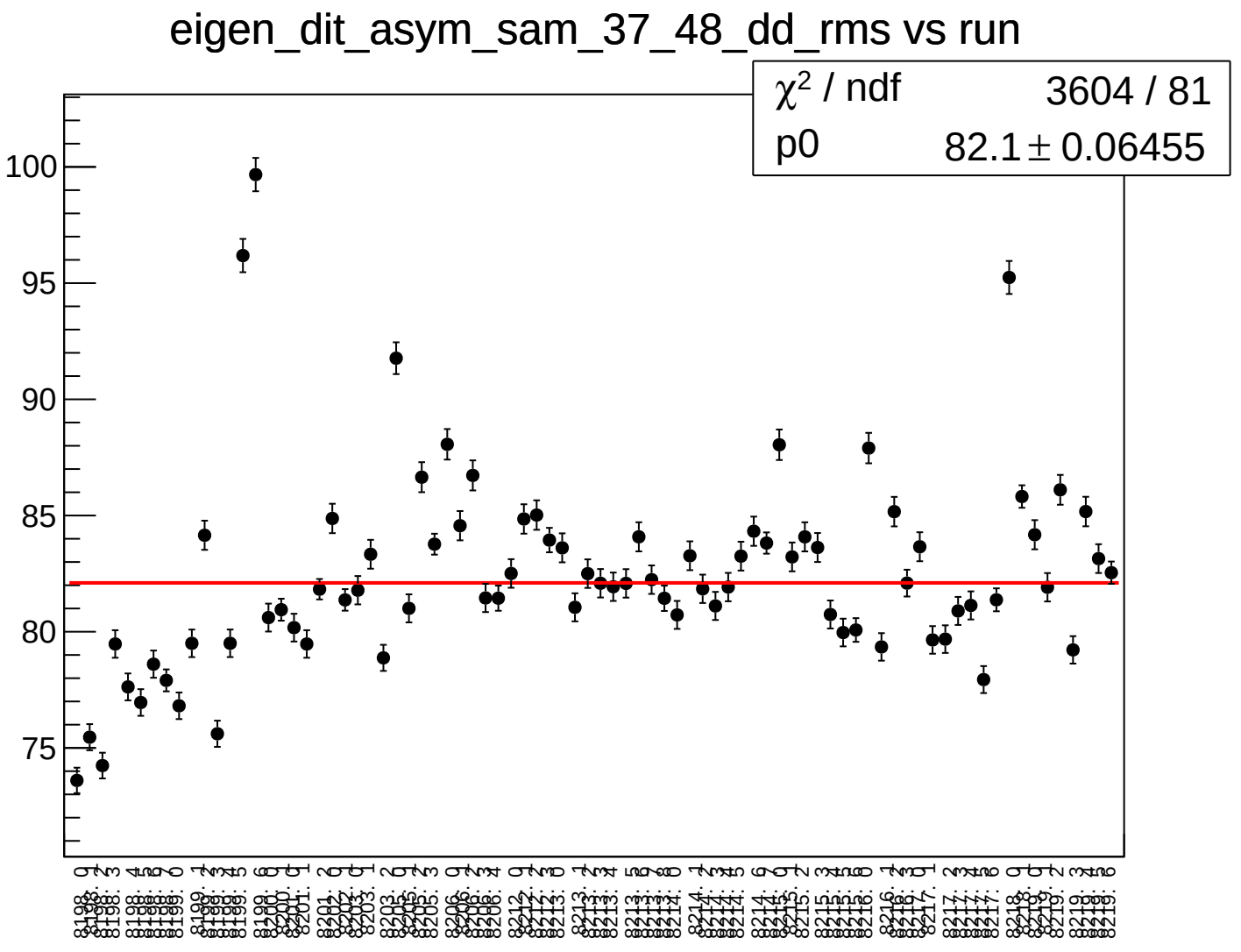

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 3604 / 81
p0 82.1 ± 0.06455
100
95
90
85
80
75

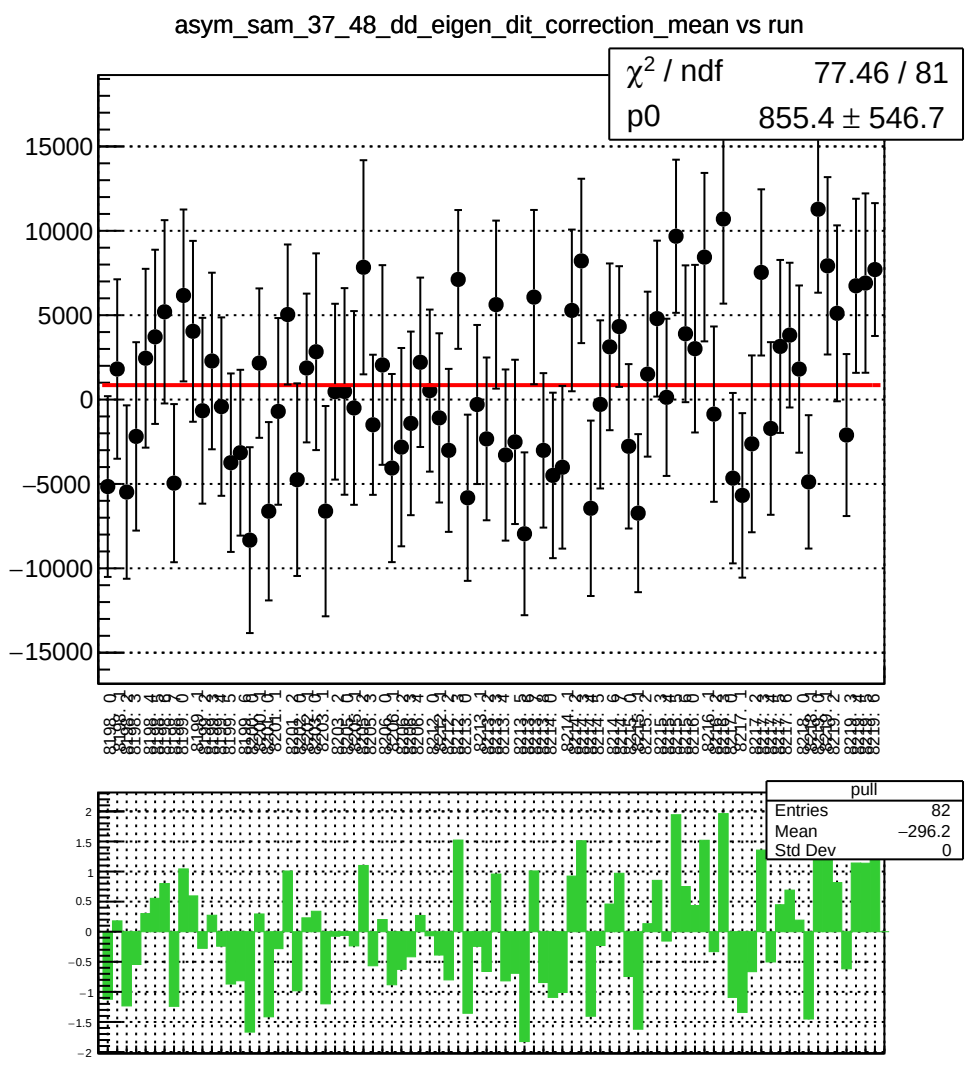

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 77.46 / 81
p0 855.4 ± 546.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −296.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

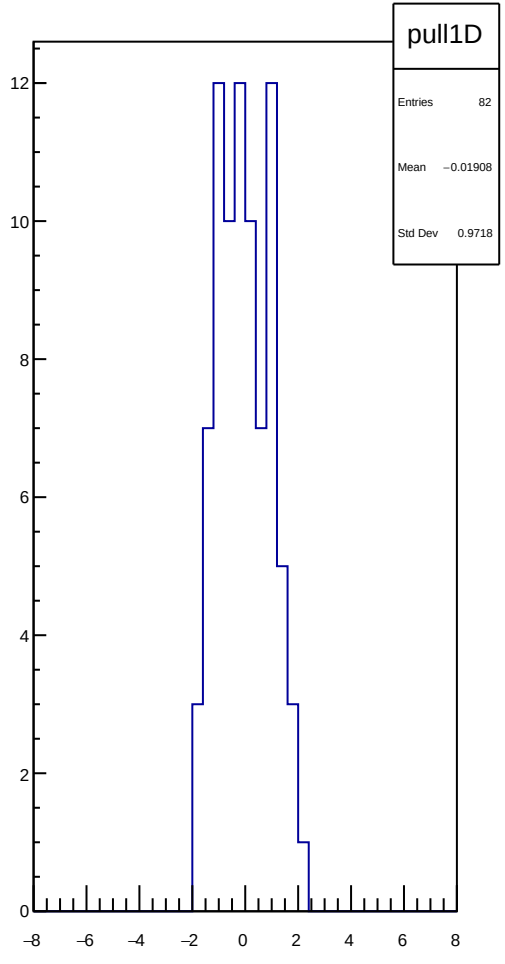

pull1D
Entries 82
Mean −0.01908
Std Dev 0.9718
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

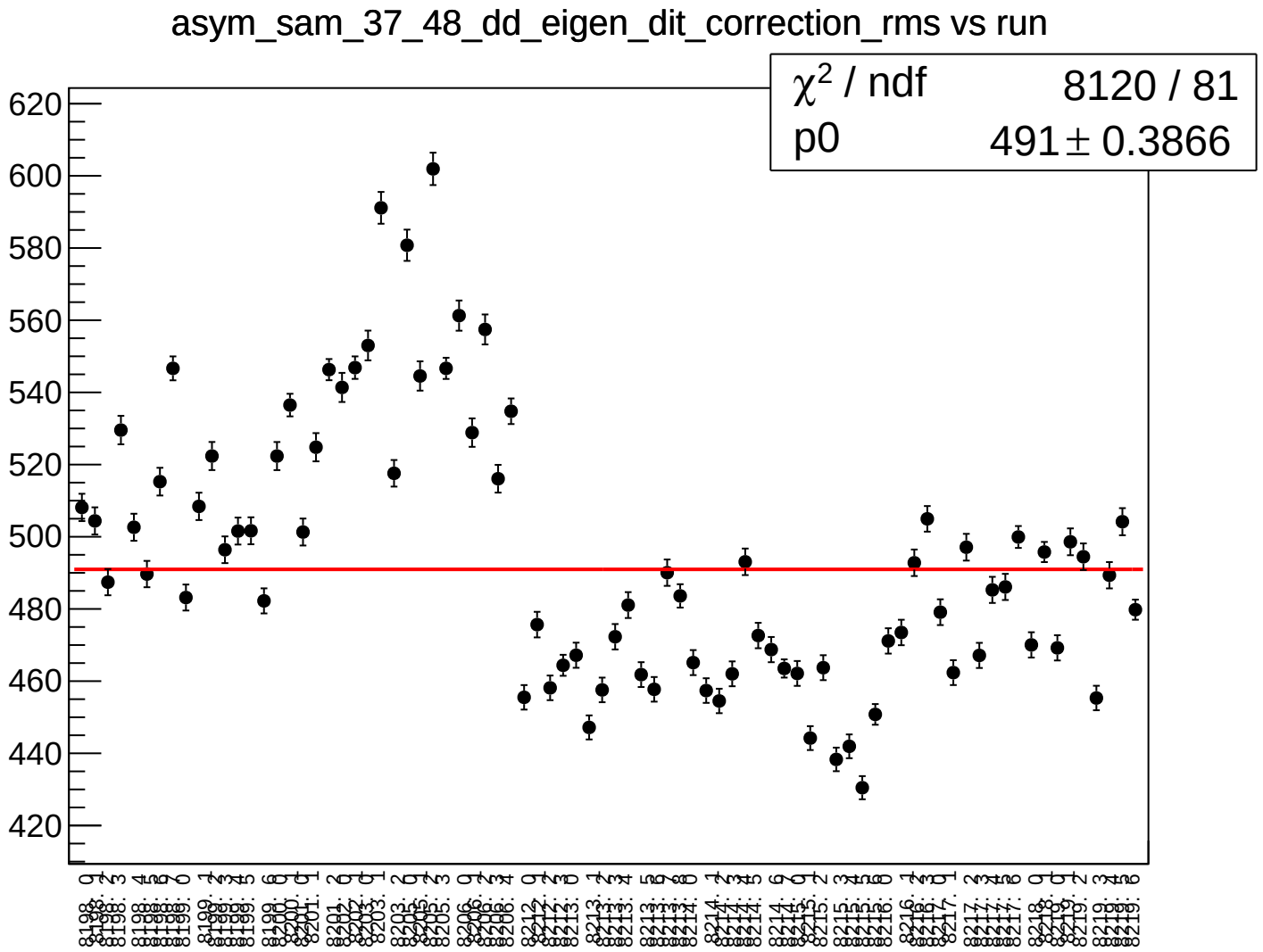

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 8120 / 81
p0 491 ± 0.3866
620
600
580
560
540
520
500
480
460
440
420

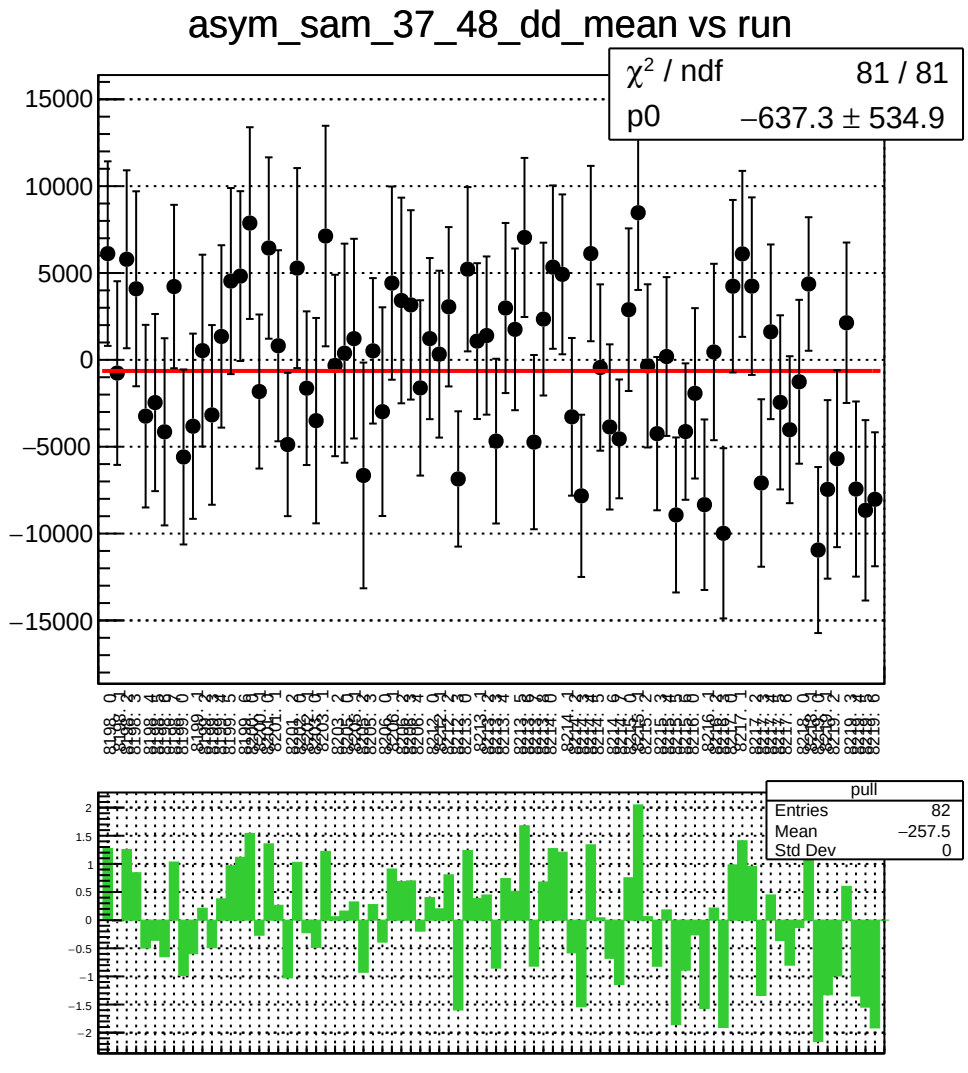

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 73.55 / 81
p0 223 ± 91.29
pull
Entries 82
Mean −112
Std Dev 0
pull1D
Entries 82
Mean 0.02446
Std Dev 0.9468

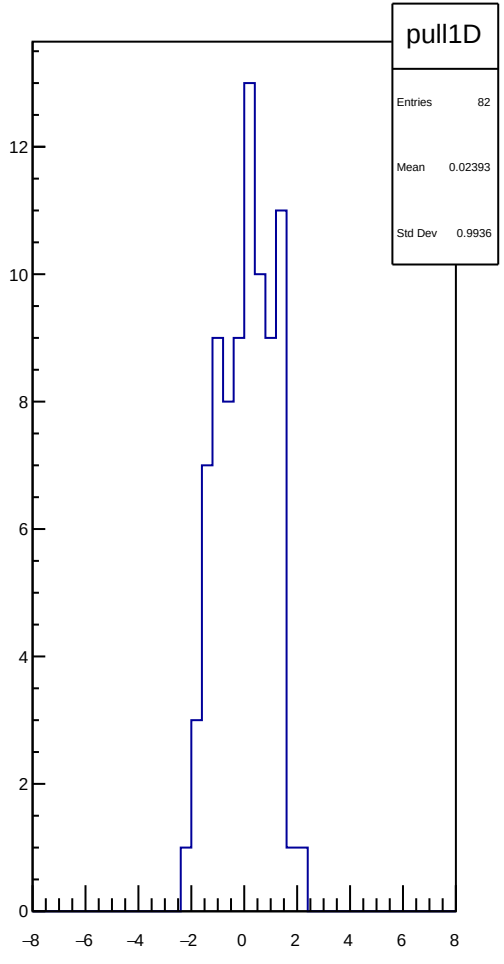

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 3604 / 81
p0 82.1 ± 0.06455
100
95
90
85
80
75

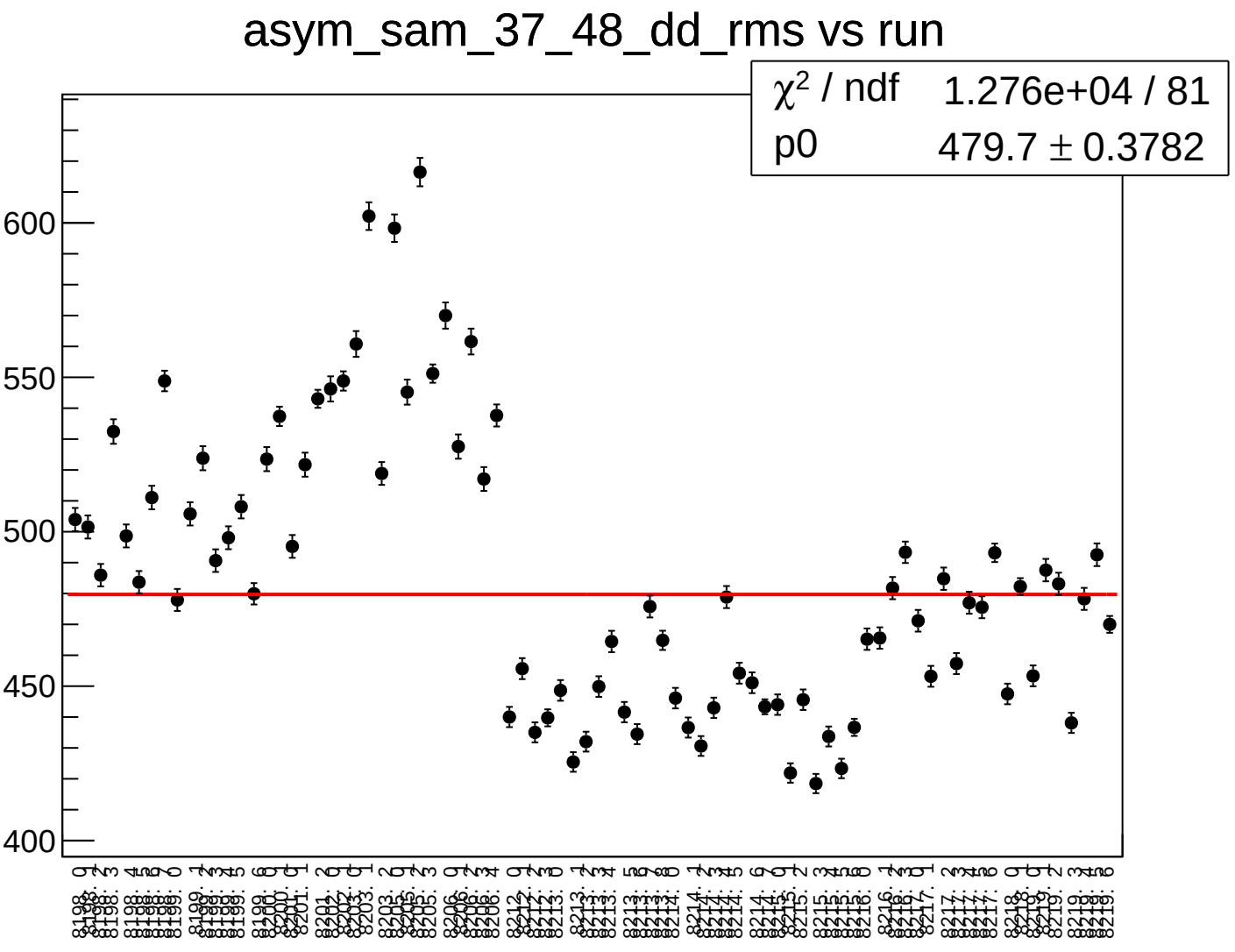

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.46 / 81
p0 855.4 ± 546.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −296.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

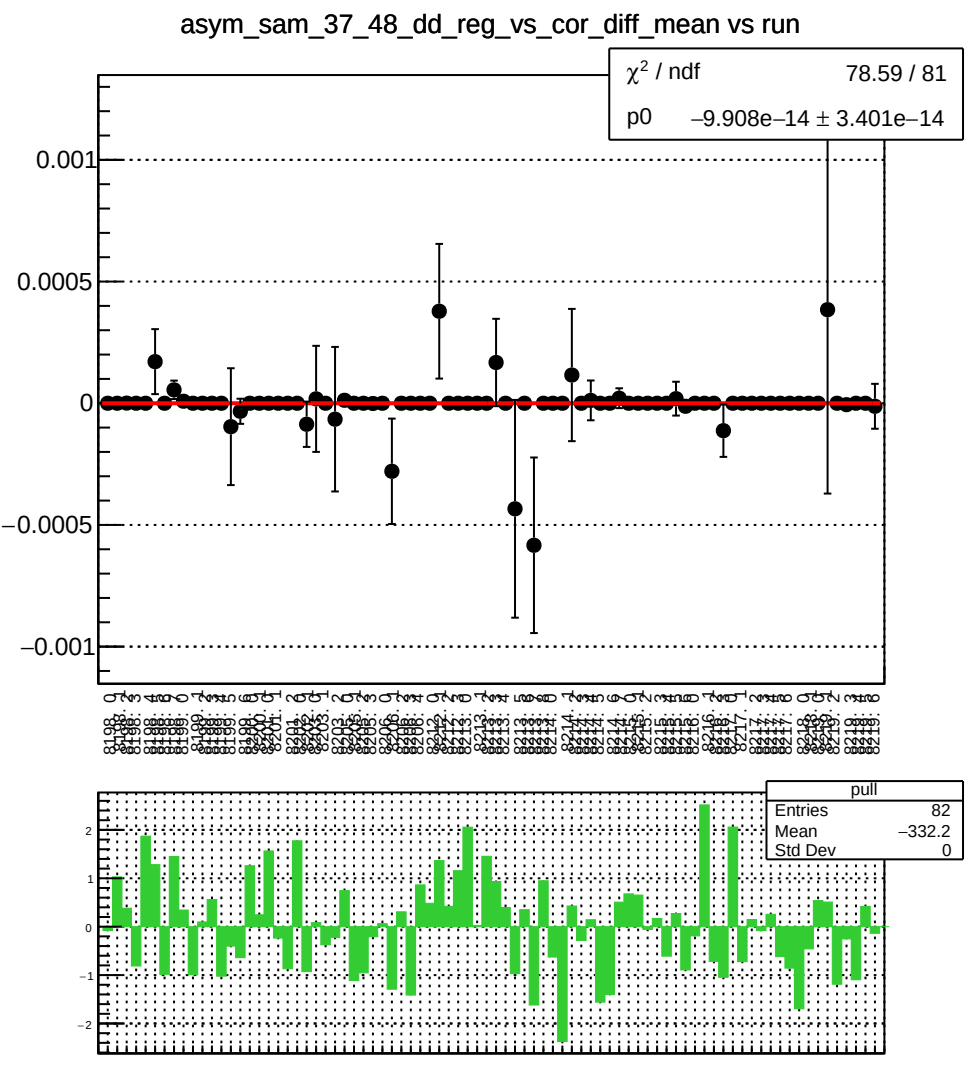

pull1D
Entries 82
Mean −0.01908
Std Dev 0.9718
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

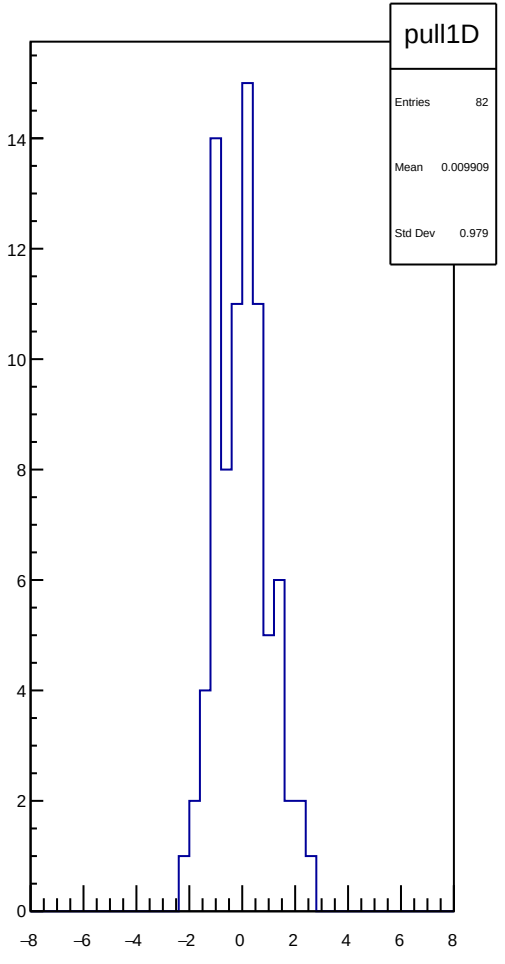

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 8120 / 81
p0 491 ± 0.3866
620
600
580
560
540
520
500
480
460
440
420

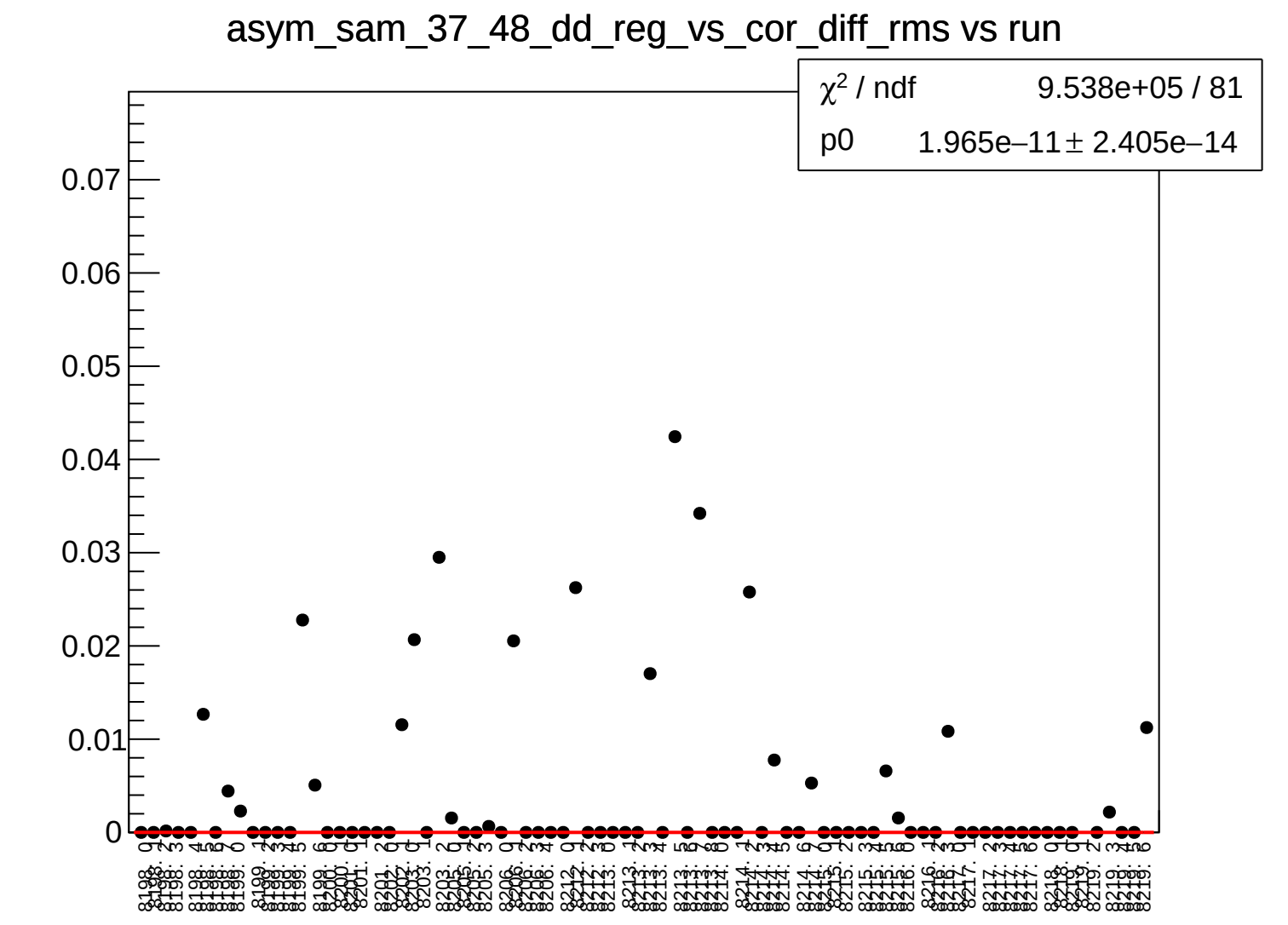

asym_sam_37_48_dd_mean vs run
χ² / ndf 81 / 81
p0 −637.3 ± 534.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −257.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

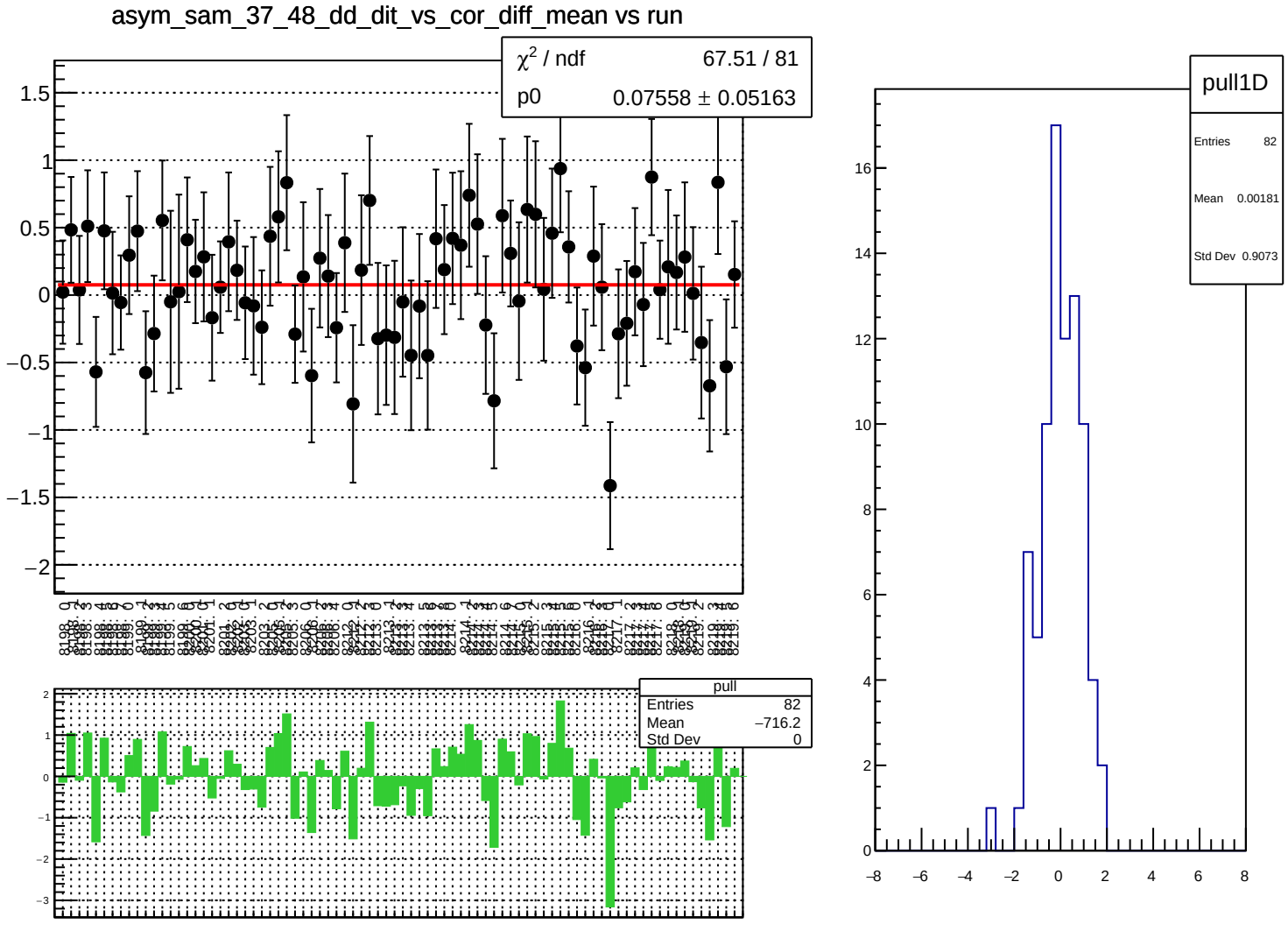

pull1D
Entries 82
Mean 0.02393
Std Dev 0.9936
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

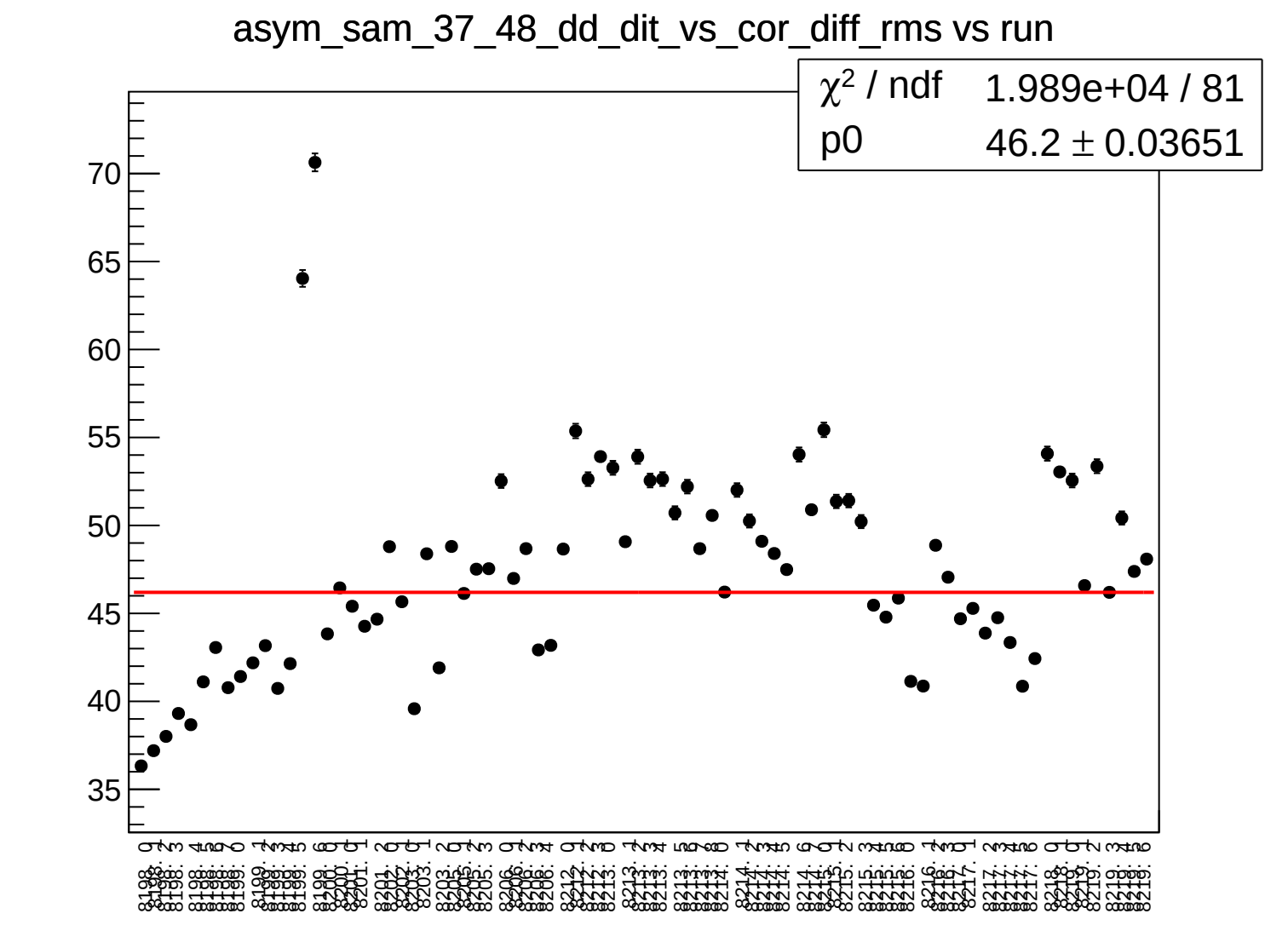

asym_sam_37_48_dd_rms vs run
$\chi^2$ / ndf 1.276e+04 / 81
p0 479.7 ± 0.3782
600
550
500
450
400

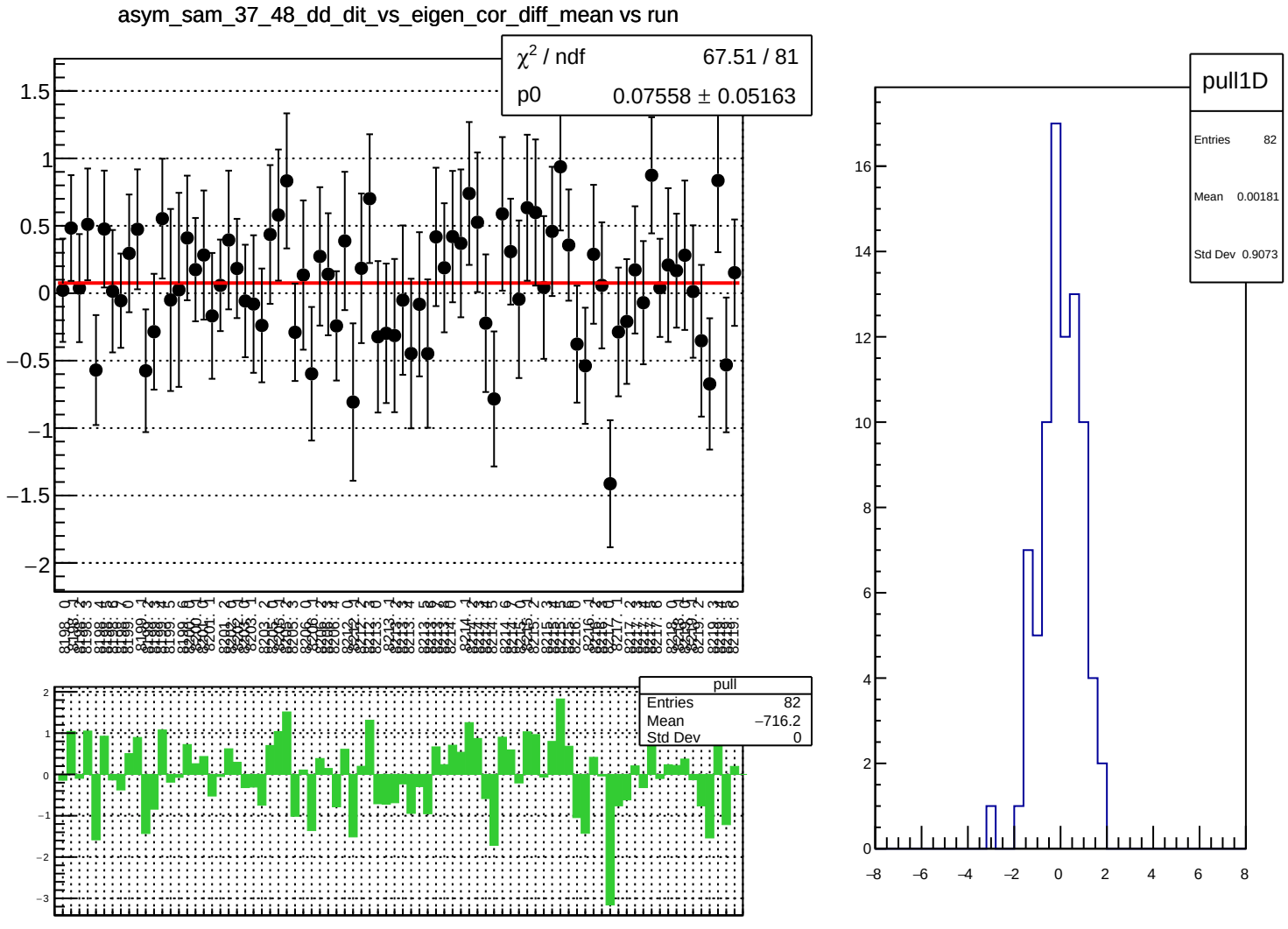

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.59 / 81
p0 −9.908e−14 ± 3.401e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean −332.2
Std Dev 0
2
1
0
−1
−2

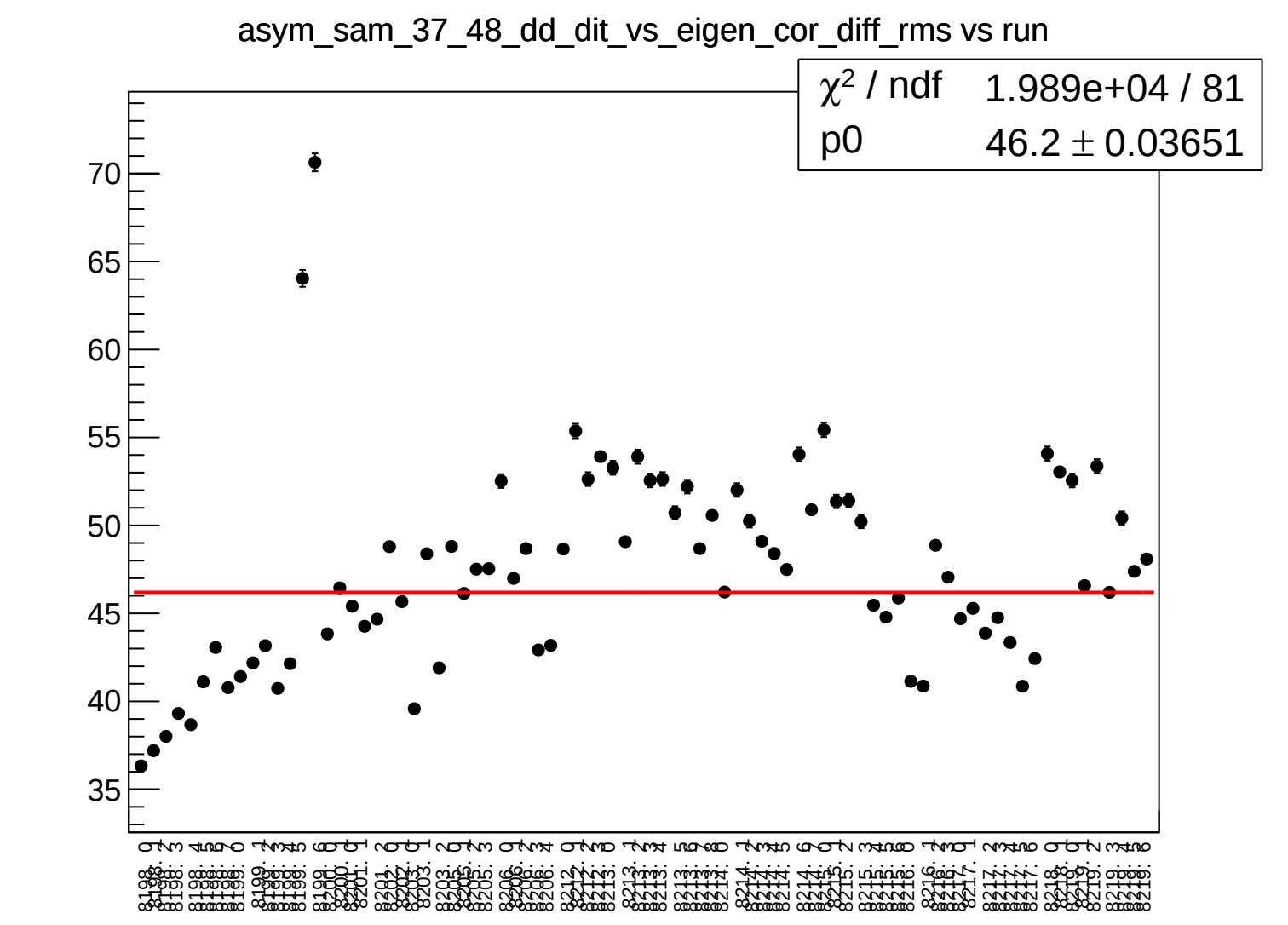

pull1D
Entries 82
Mean 0.009909
Std Dev 0.979
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

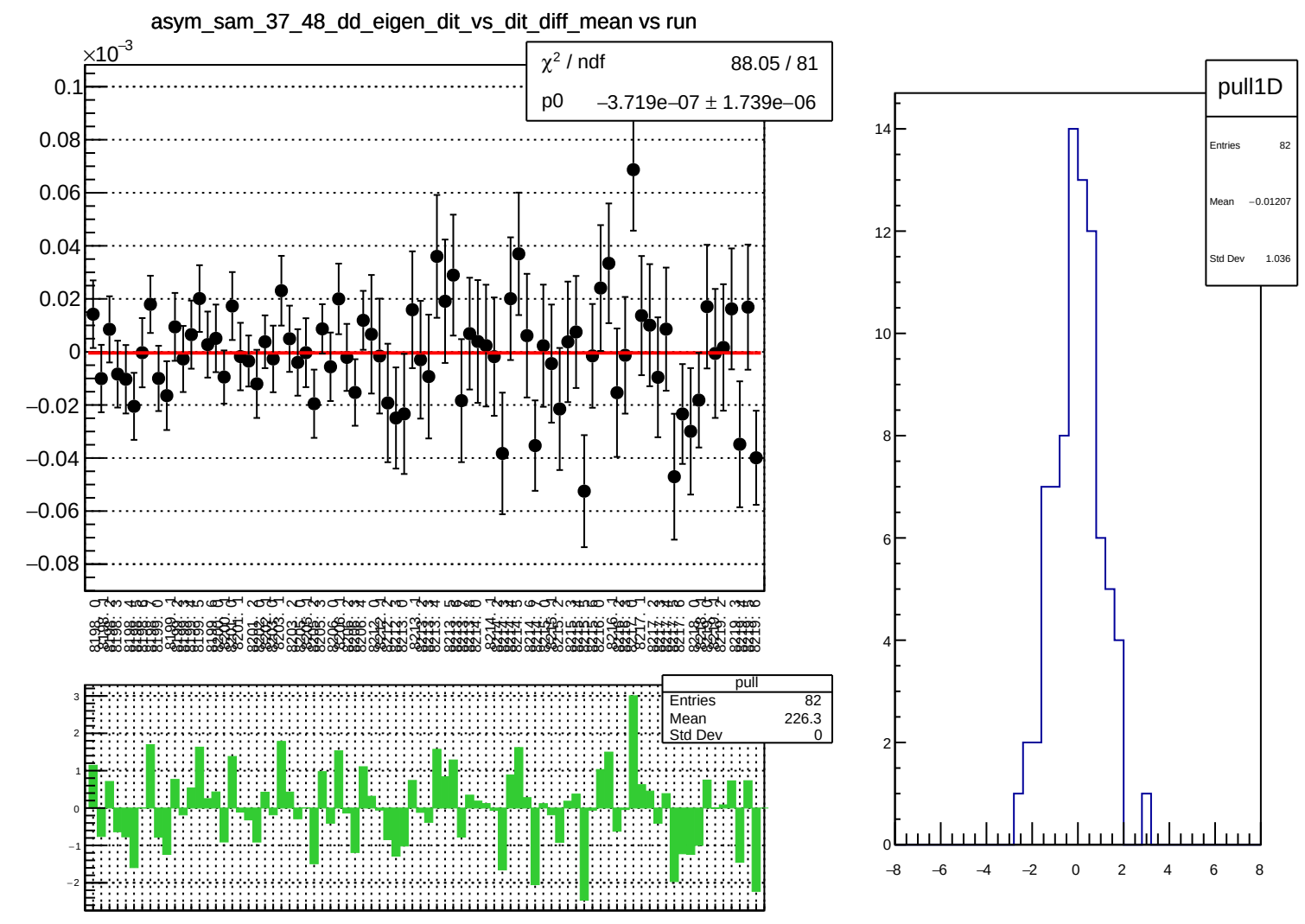

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.538e+05 / 81
p0 1.965e−11 ± 2.405e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

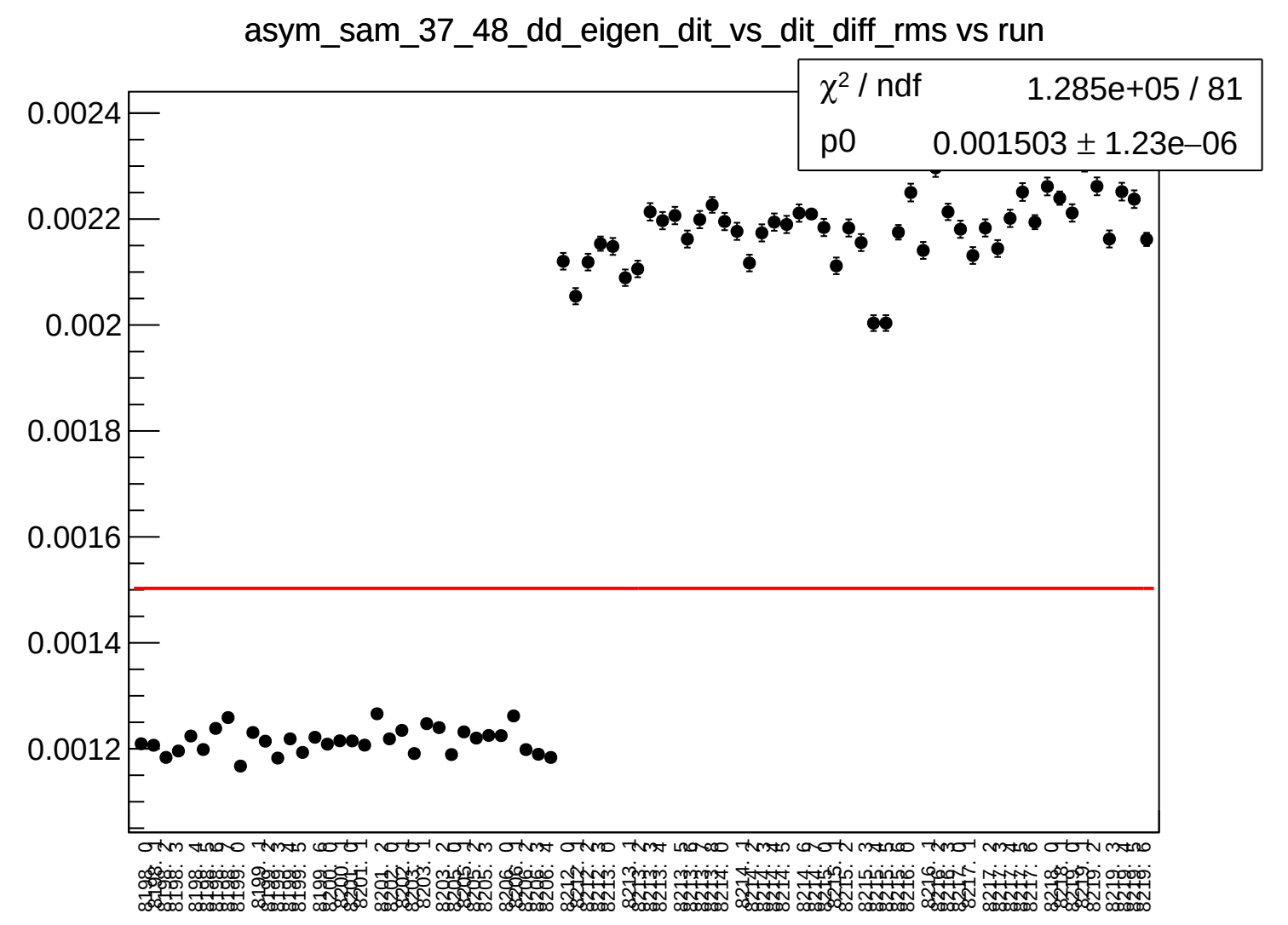

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.51 / 81
p0 0.07558 ± 0.05163
pull
Entries 82
Mean −716.2
Std Dev 0
pull1D
Entries 82
Mean 0.00181
Std Dev 0.9073

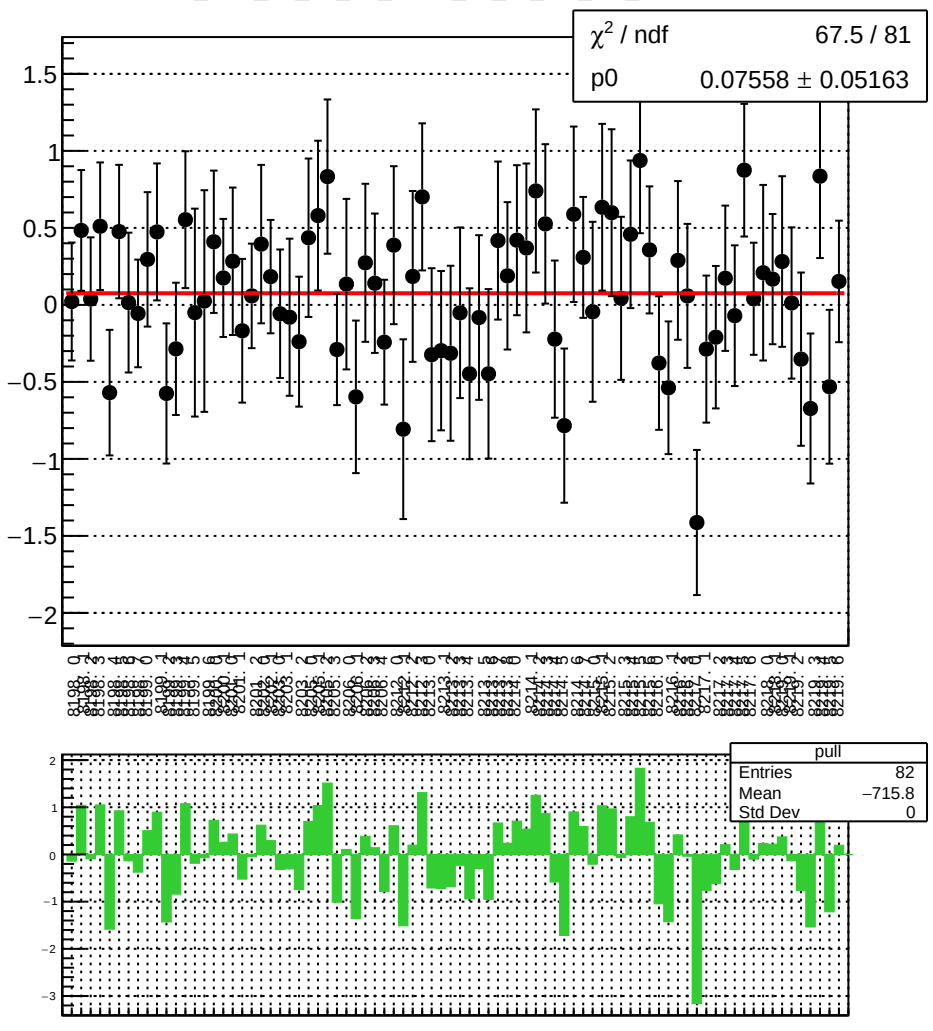

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.989e+04 / 81
p0 46.2 ± 0.03651
70
65
60
55
50
45
40
35

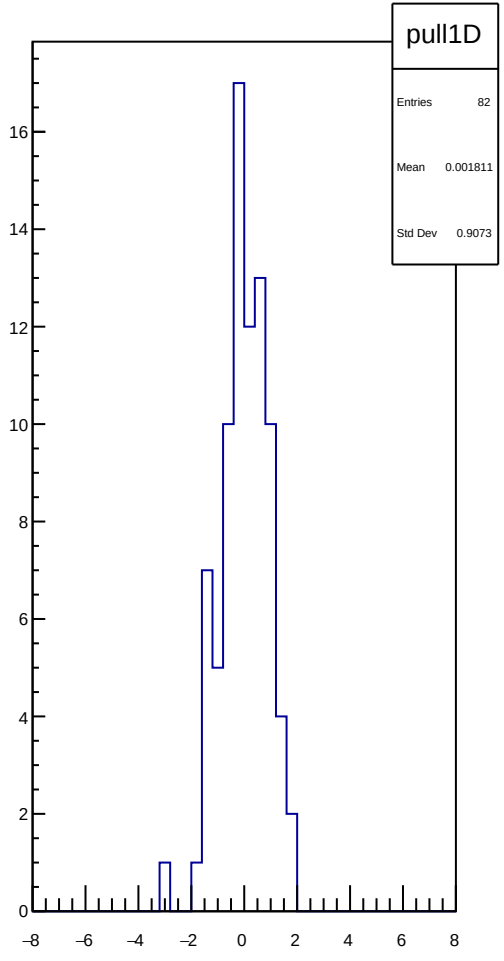

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.51 / 81
p0 0.07558 ± 0.05163
pull
Entries 82
Mean −716.2
Std Dev 0
pull1D
Entries 82
Mean 0.00181
Std Dev 0.9073

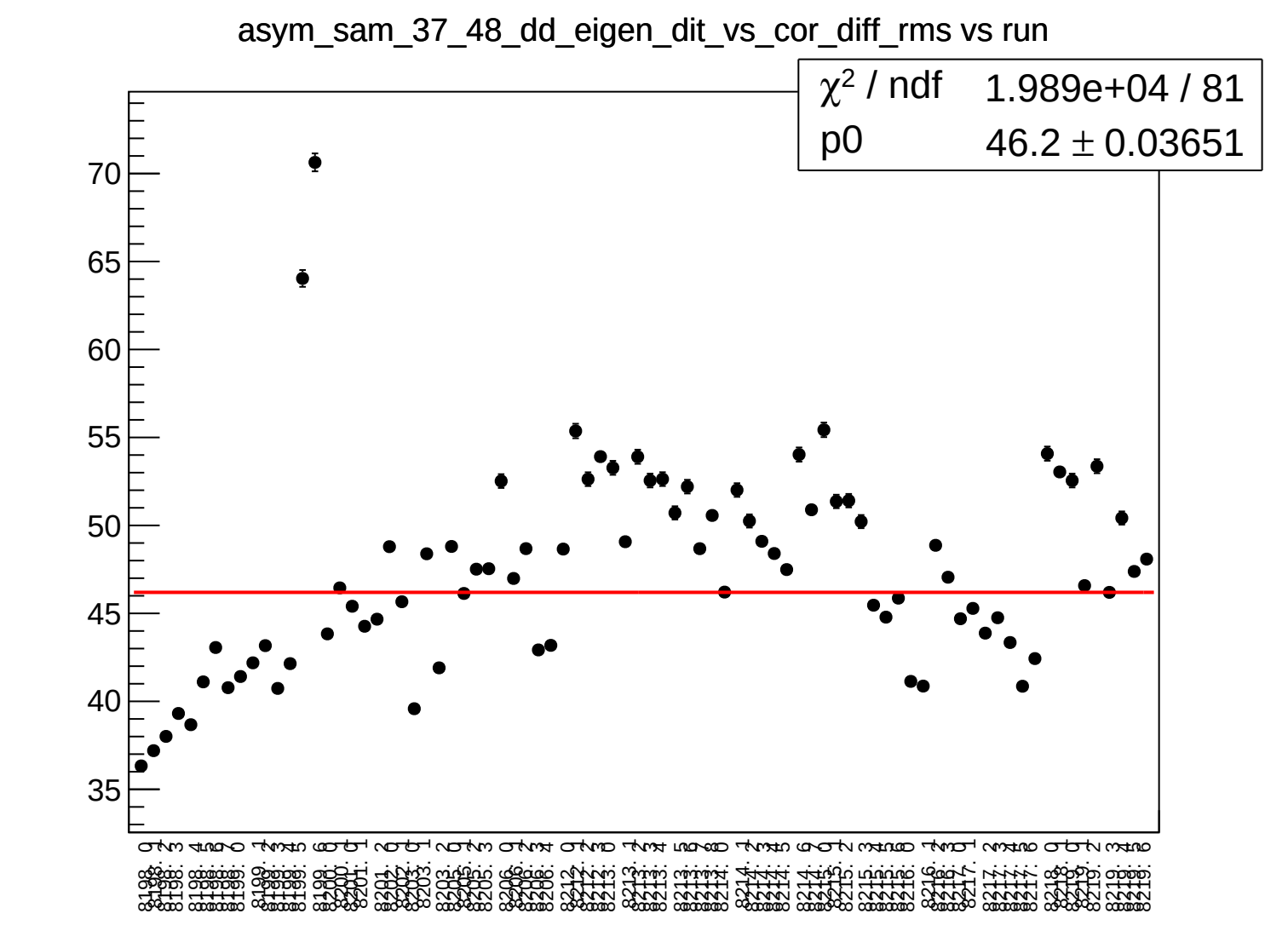

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.989e+04 / 81
p0 46.2 ± 0.03651
70
65
60
55
50
45
40
35

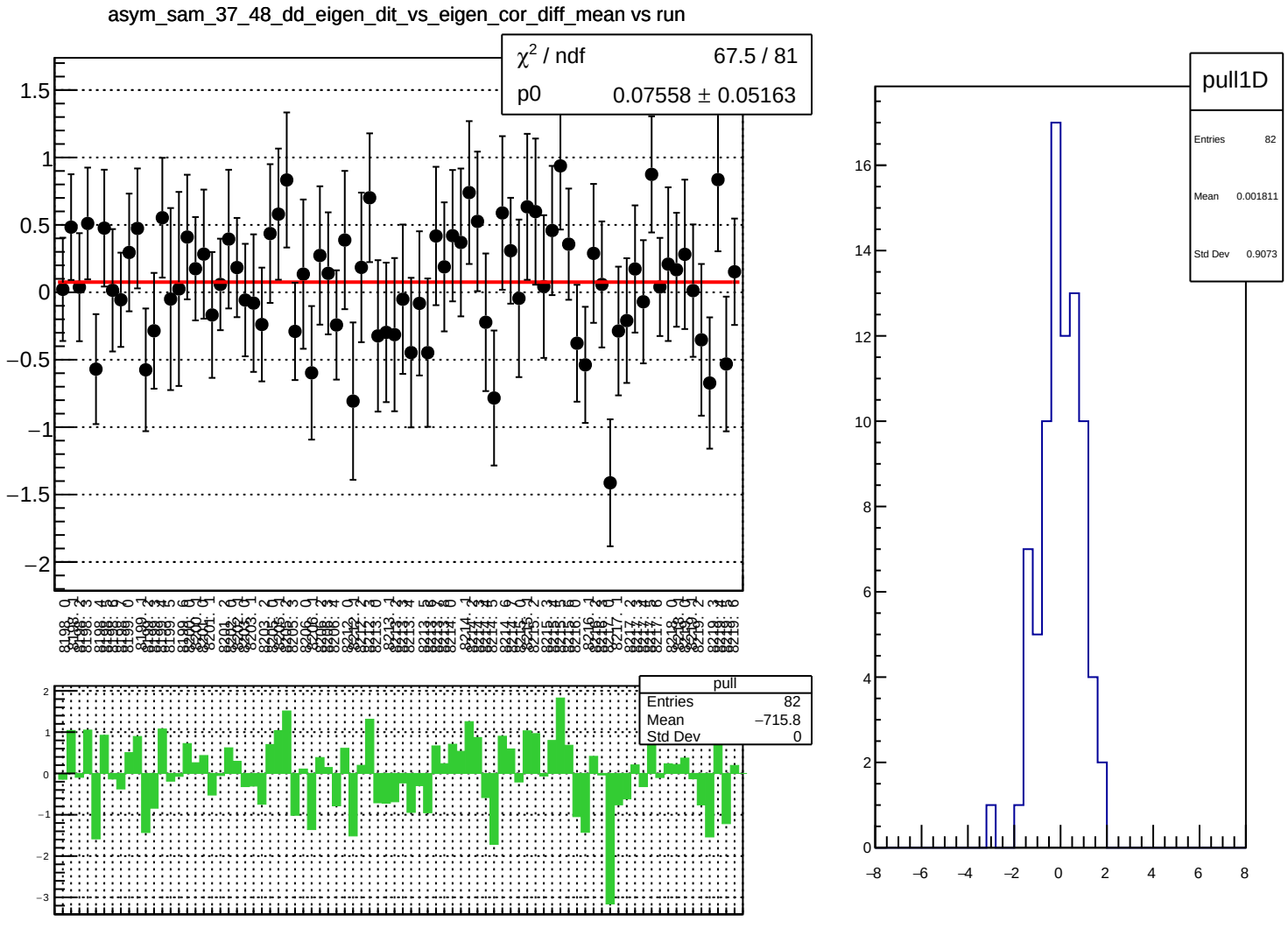

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 88.05 / 81
p0 −3.719e−07 ± 1.739e−06
pull
Entries 82
Mean 226.3
Std Dev 0
pull1D
Entries 82
Mean −0.01207
Std Dev 1.036

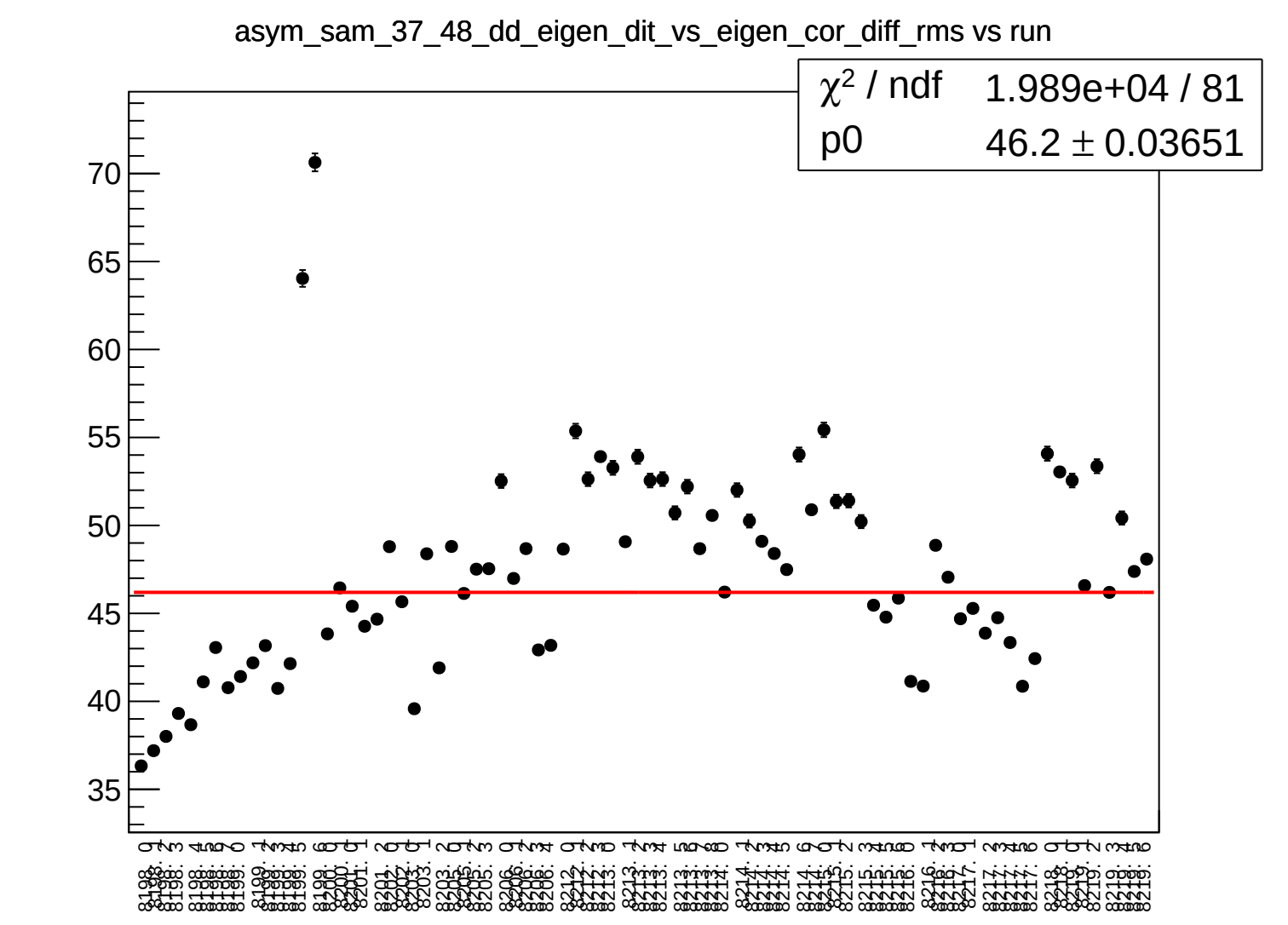

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.285e+05 / 81
p0 0.001503 ± 1.23e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

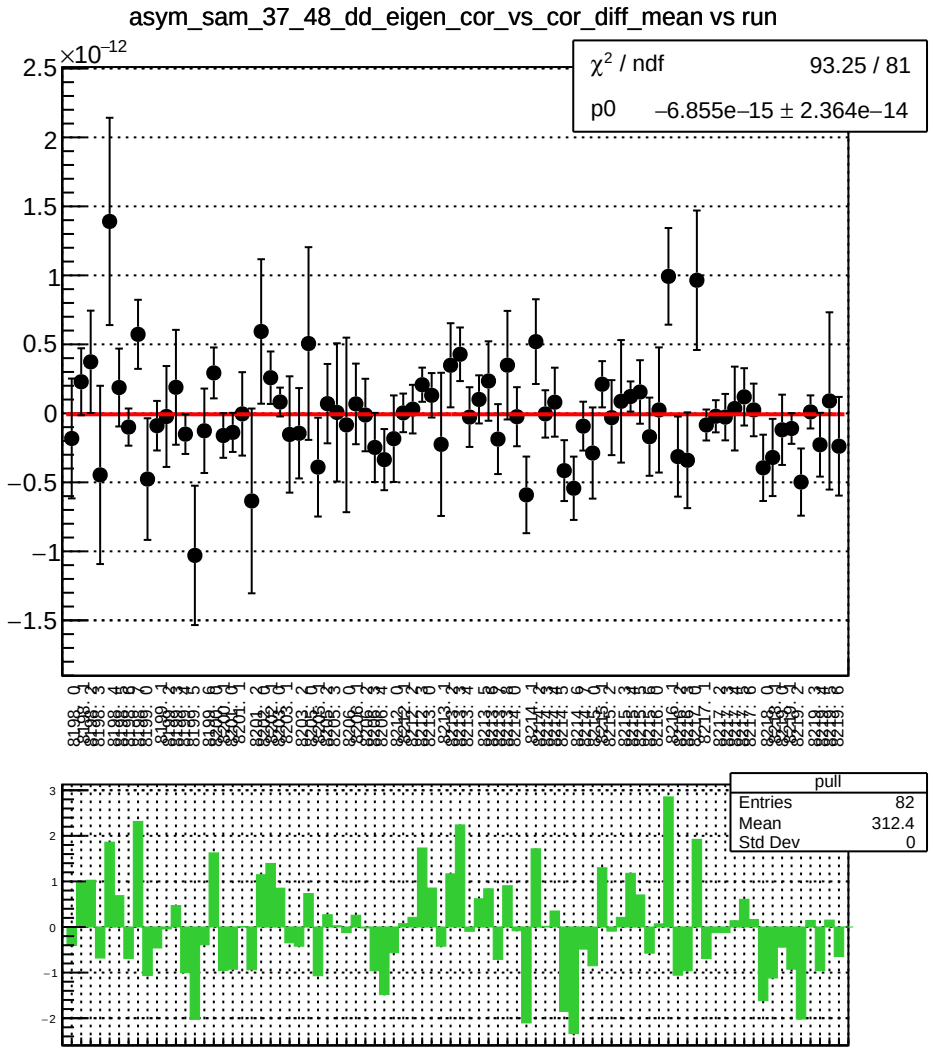

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.5 / 81
p0 0.07558 ± 0.05163
pull
Entries 82
Mean −715.8
Std Dev 0

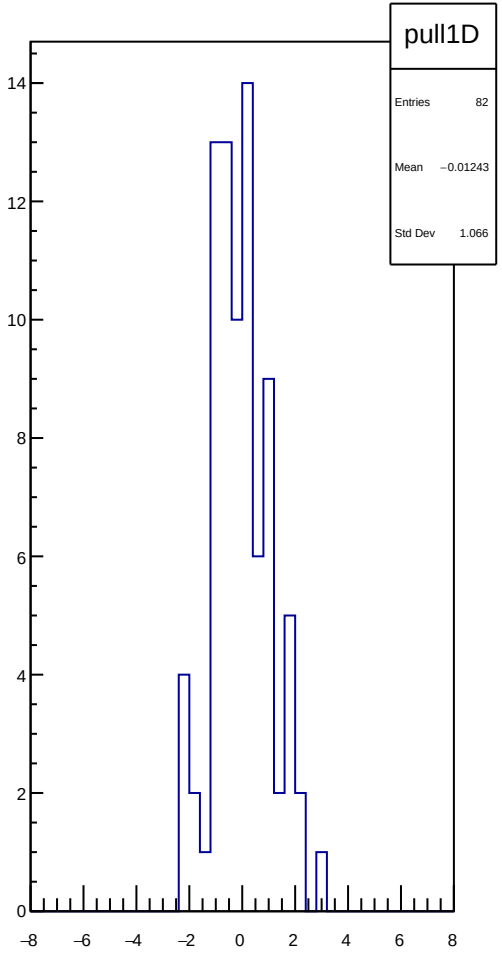

pull1D
Entries 82
Mean 0.001811
Std Dev 0.9073

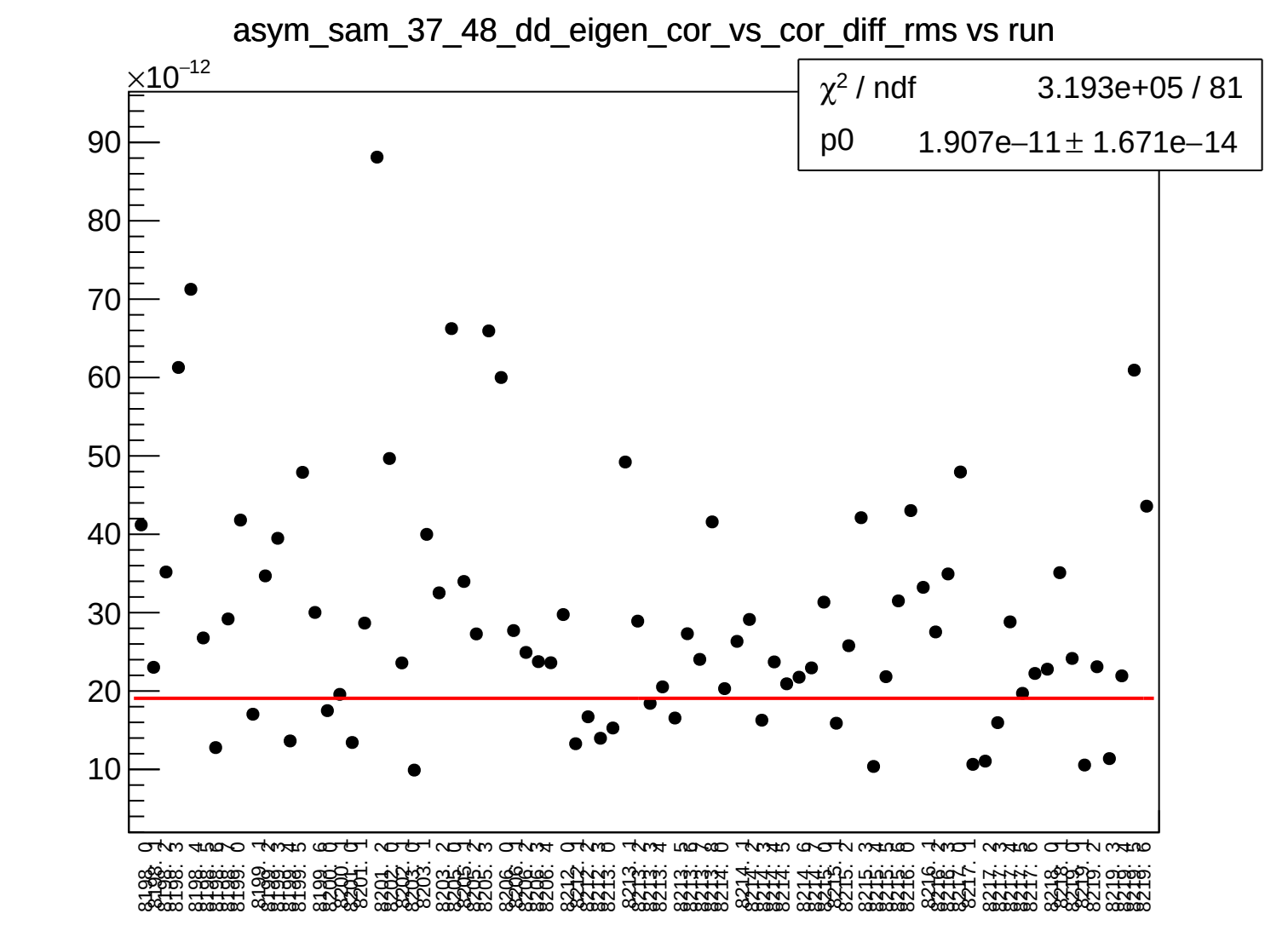

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.989e+04 / 81
p0 46.2 ± 0.03651
70
65
60
55
50
45
40
35

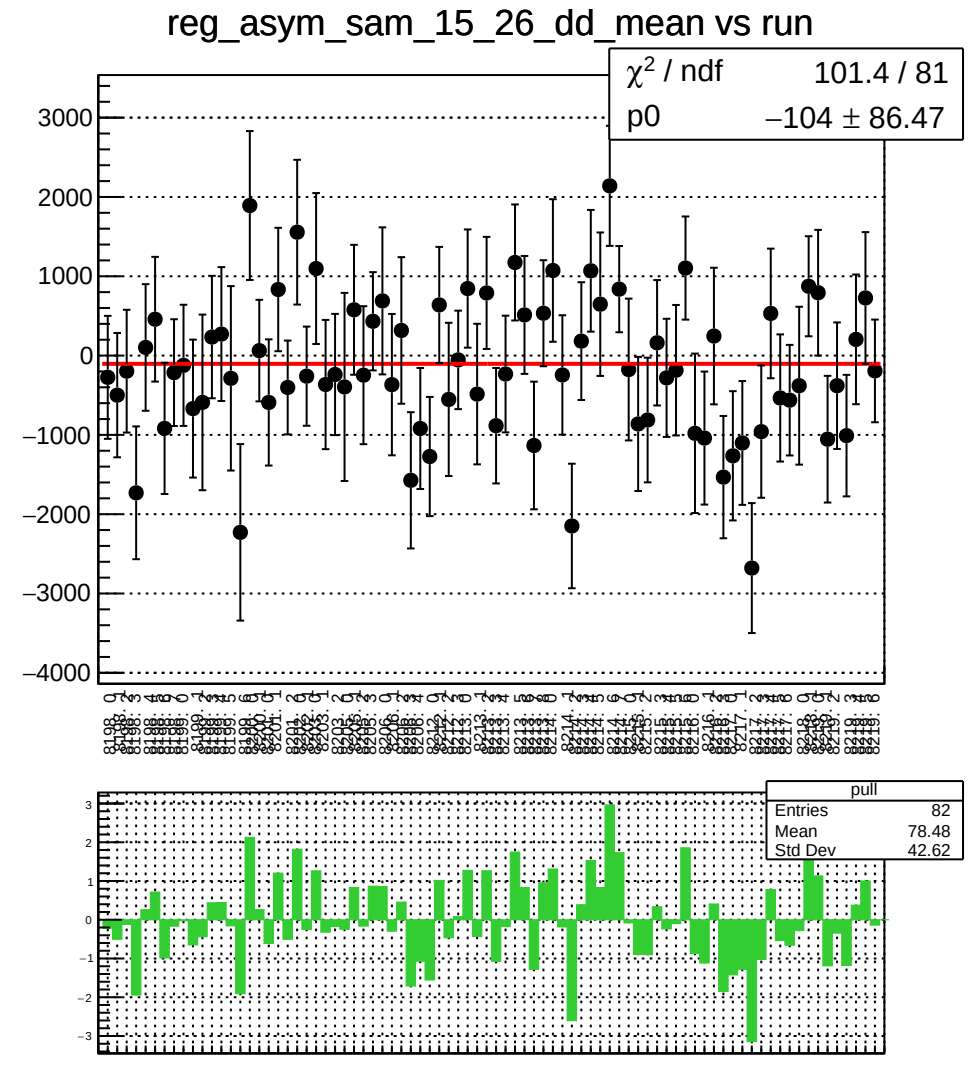

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.5 / 81
p0 0.07558 ± 0.05163
pull
Entries 82
Mean −715.8
Std Dev 0
pull1D
Entries 82
Mean 0.001811
Std Dev 0.9073

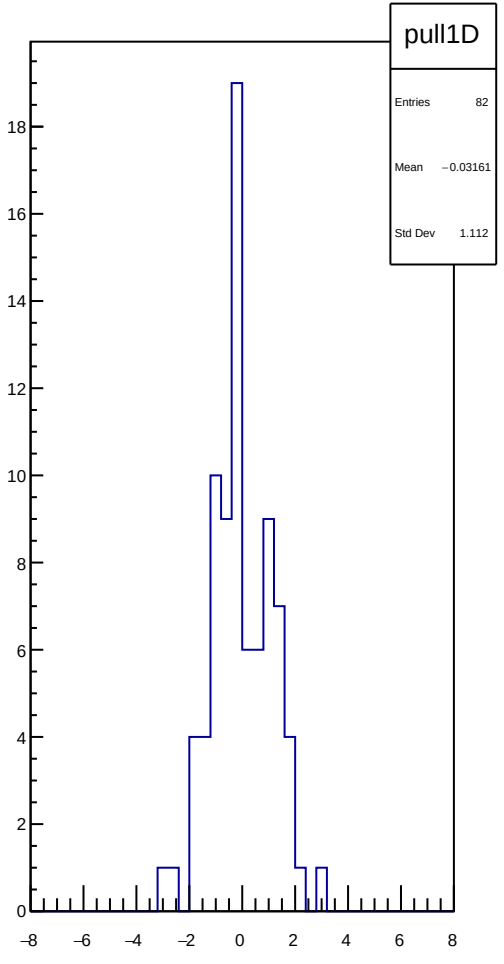

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.989e+04 / 81
p0 46.2 ± 0.03651
70
65
60
55
50
45
40
35

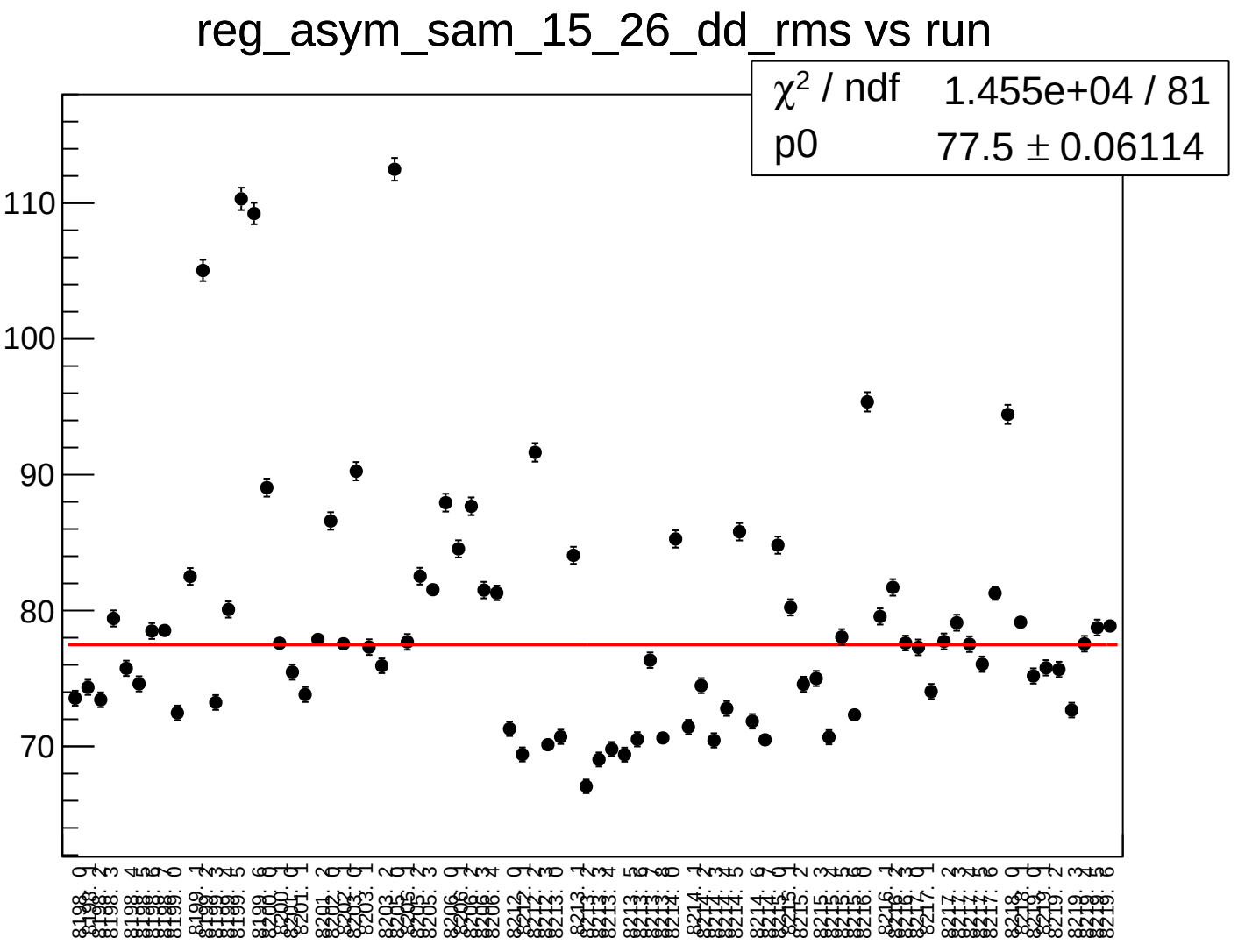

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.25 / 81
p0 −6.855e−15 ± 2.364e−14
pull
Entries 82
Mean 312.4
Std Dev 0

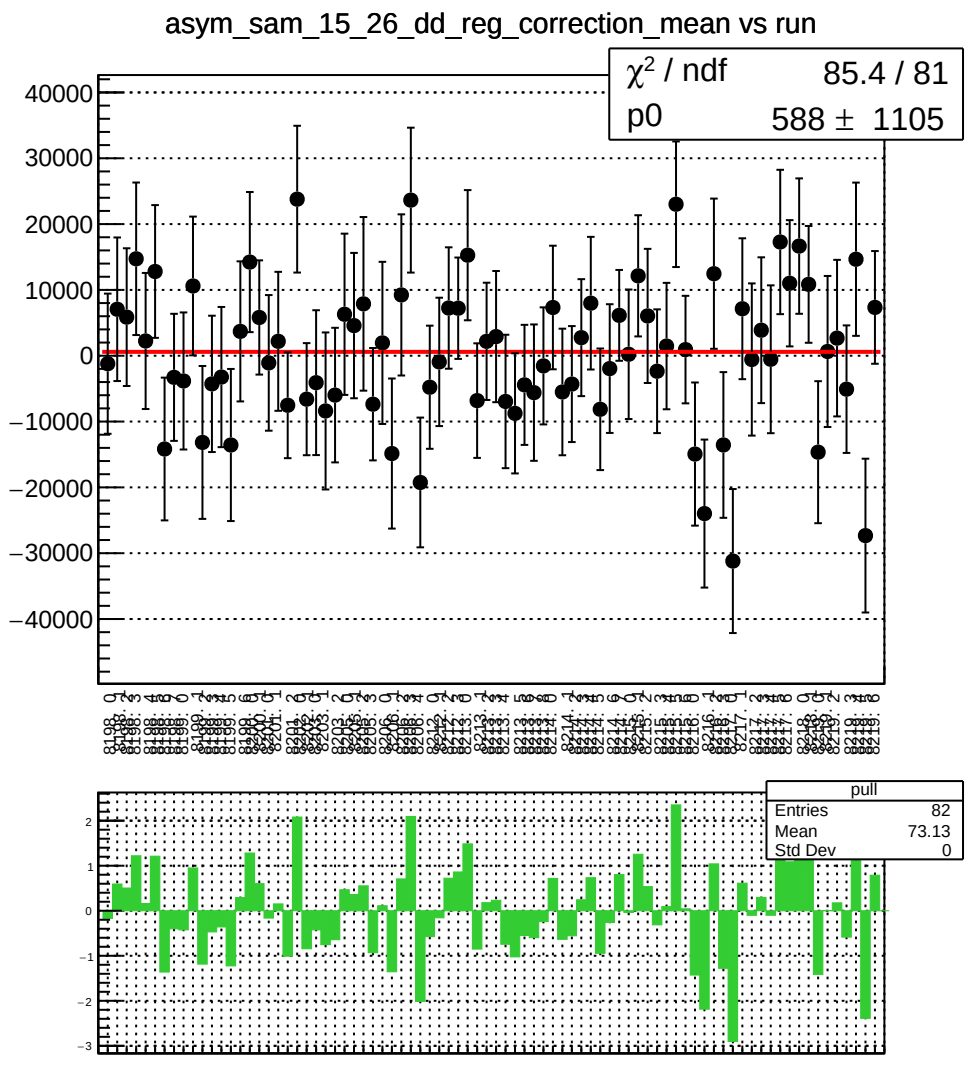

pull1D
Entries 82
Mean −0.01243
Std Dev 1.066

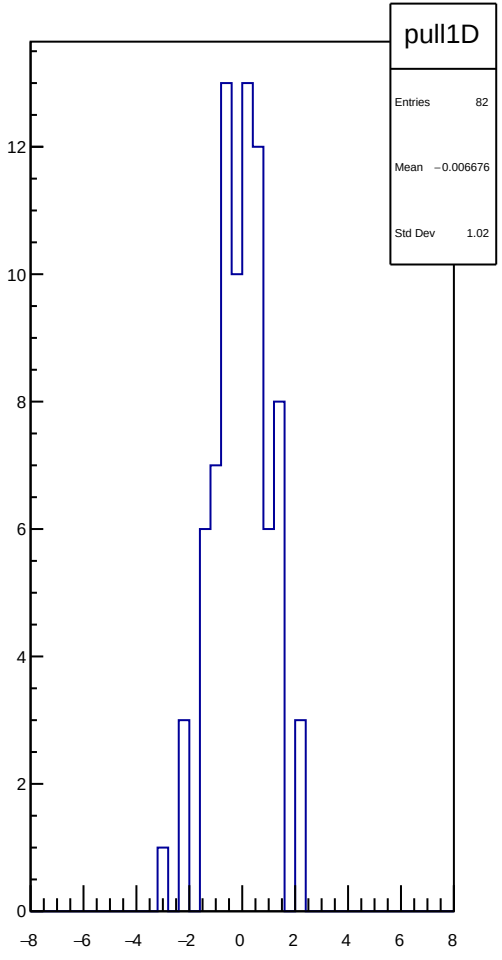

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.193e+05 / 81
p0 1.907e−11 ± 1.671e−14
90
80
70
60
50
40
30
20
10

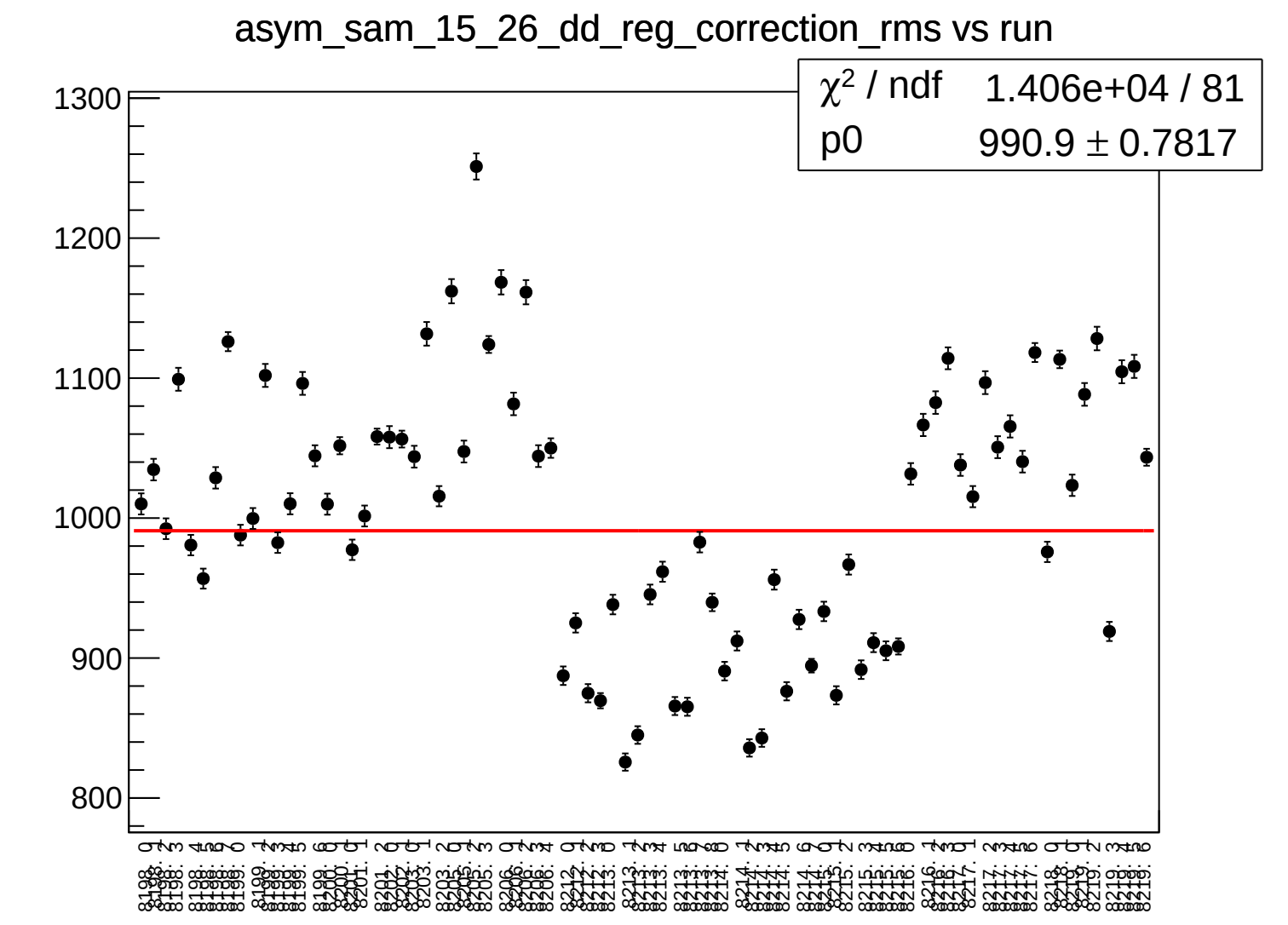

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 101.4 / 81
p0 −104 ± 86.47
pull
Entries 82
Mean 78.48
Std Dev 42.62

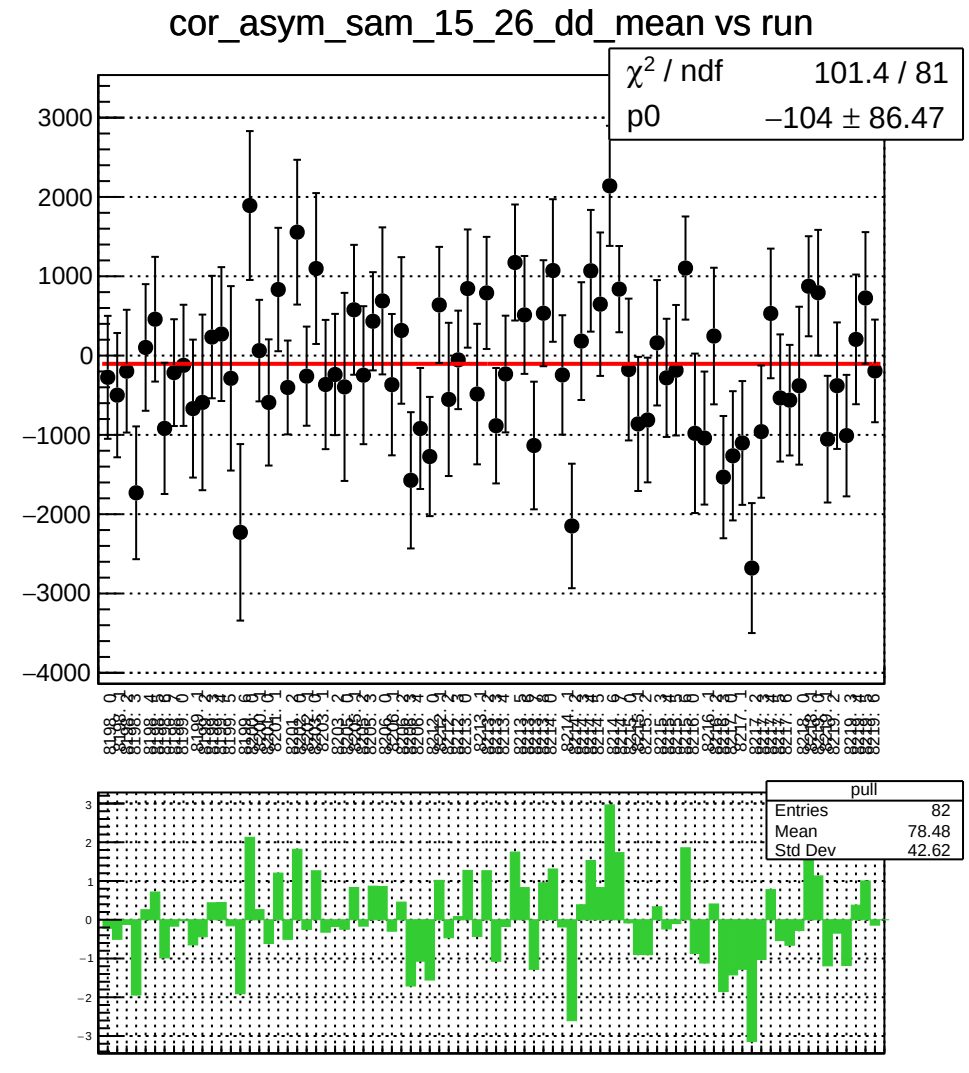

pull1D
Entries 82
Mean −0.03161
Std Dev 1.112

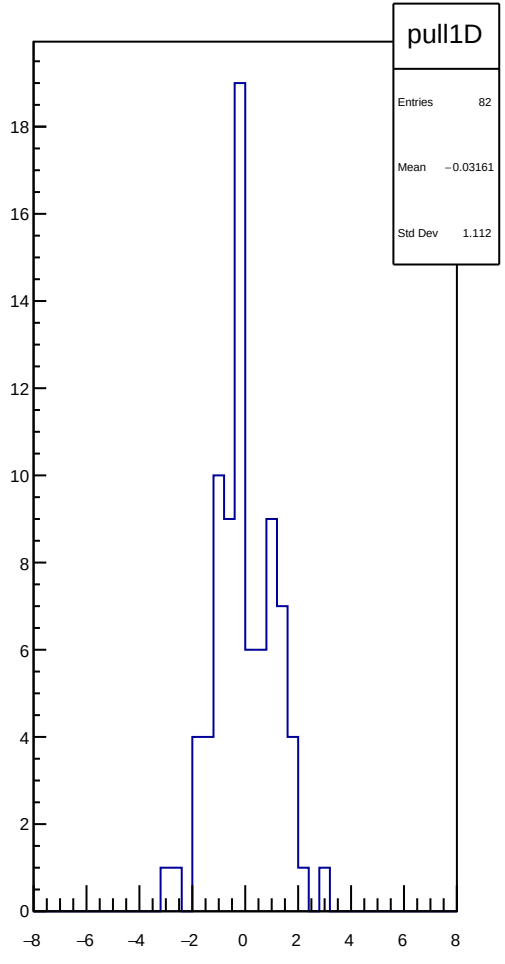

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.455e+04 / 81
p0 77.5 ± 0.06114
110
100
90
80
70

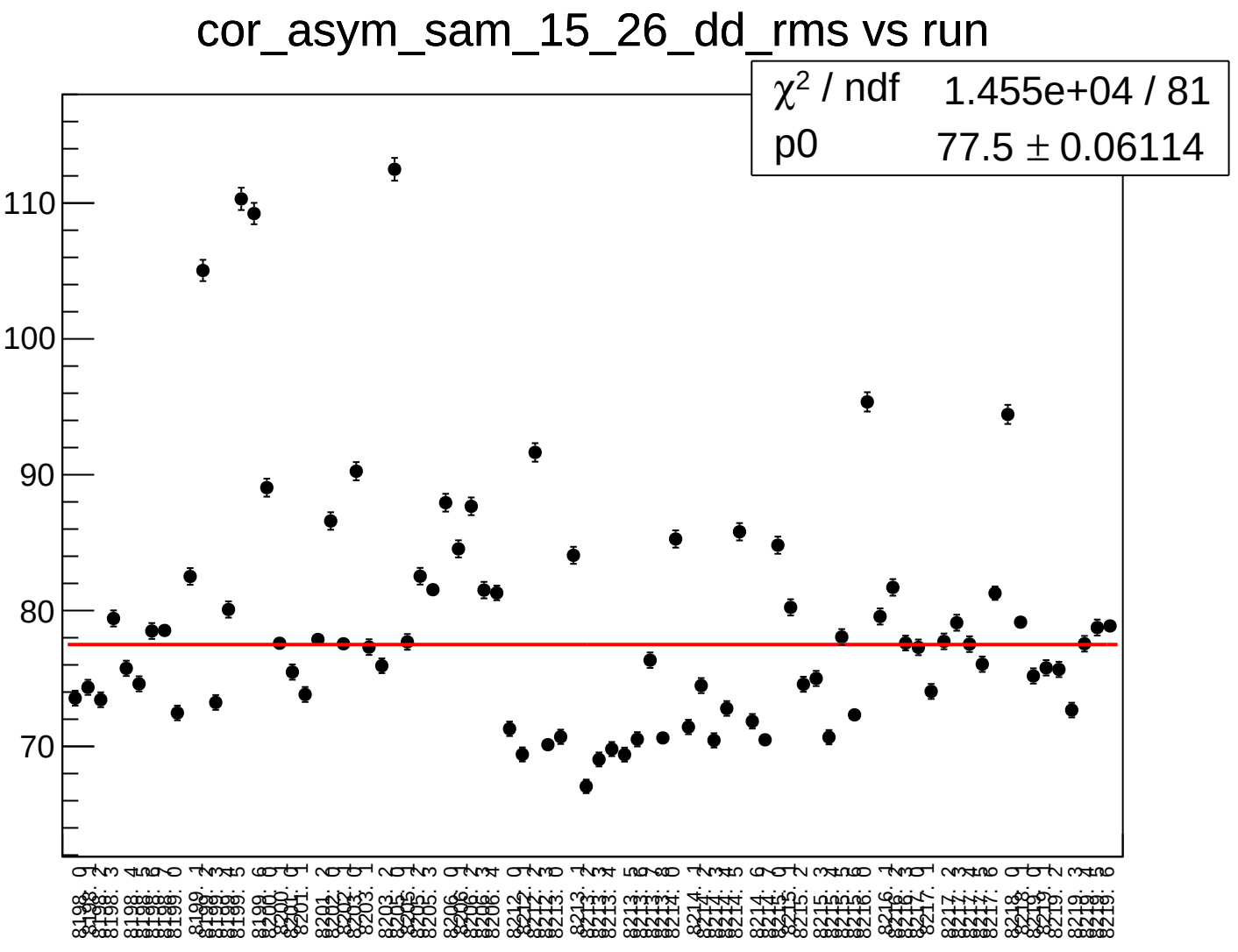

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 85.4 / 81
p0 588 ± 1105
pull
Entries 82
Mean 73.13
Std Dev 0

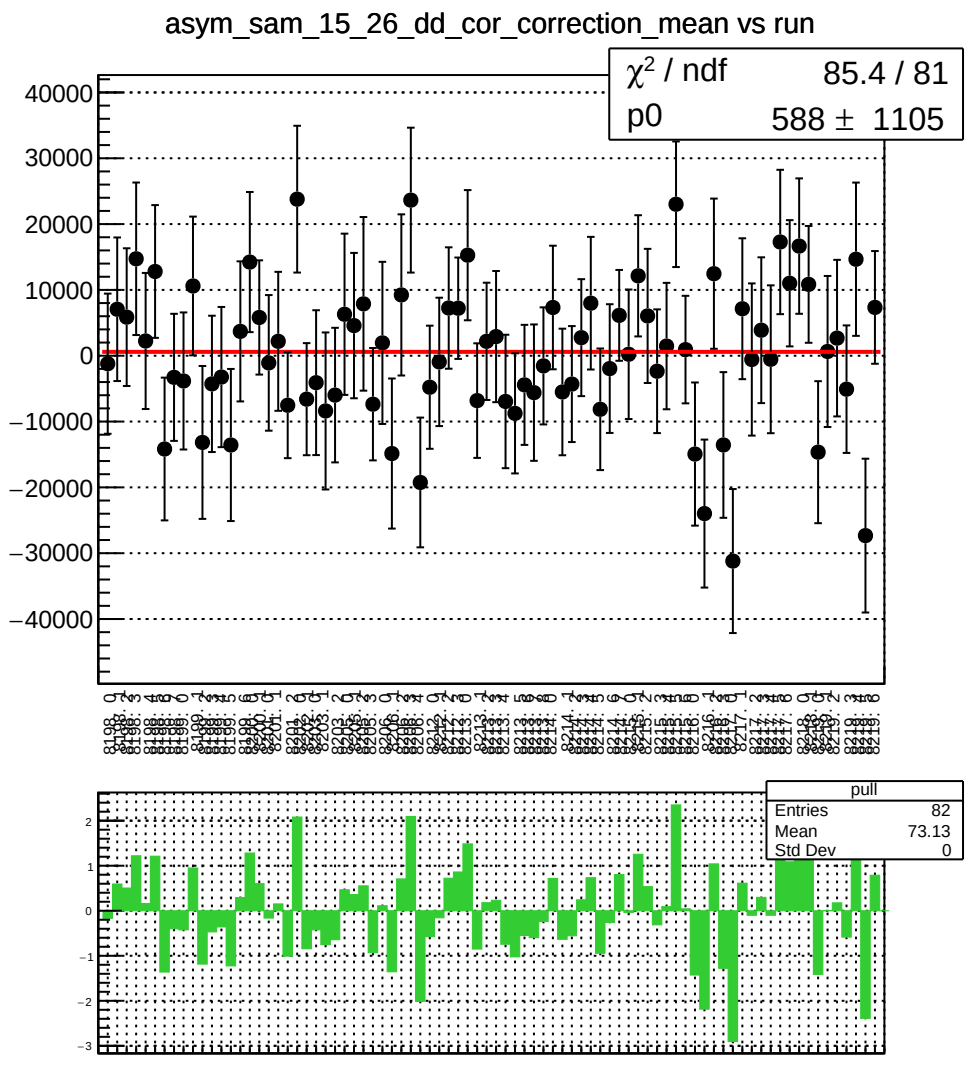

pull1D
Entries 82
Mean −0.006676
Std Dev 1.02

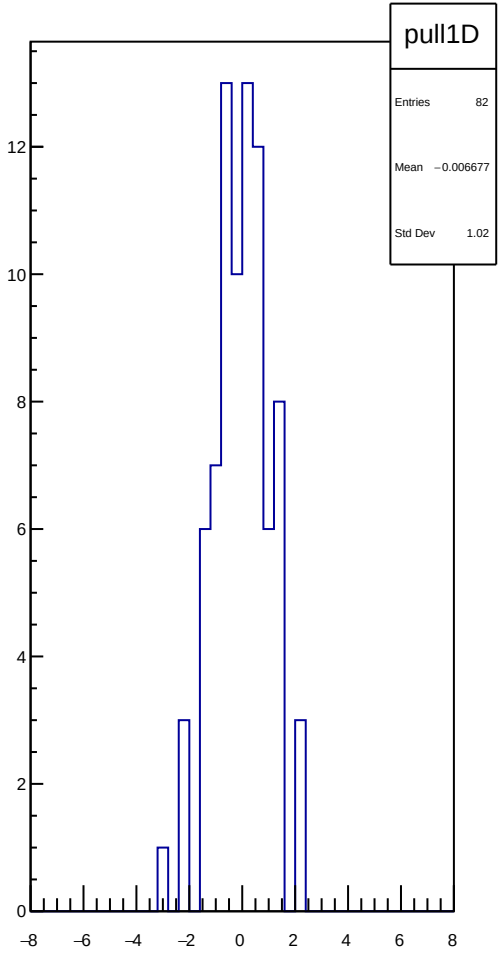

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.406e+04 / 81
p0 990.9 ± 0.7817
1300
1200
1100
1000
900
800

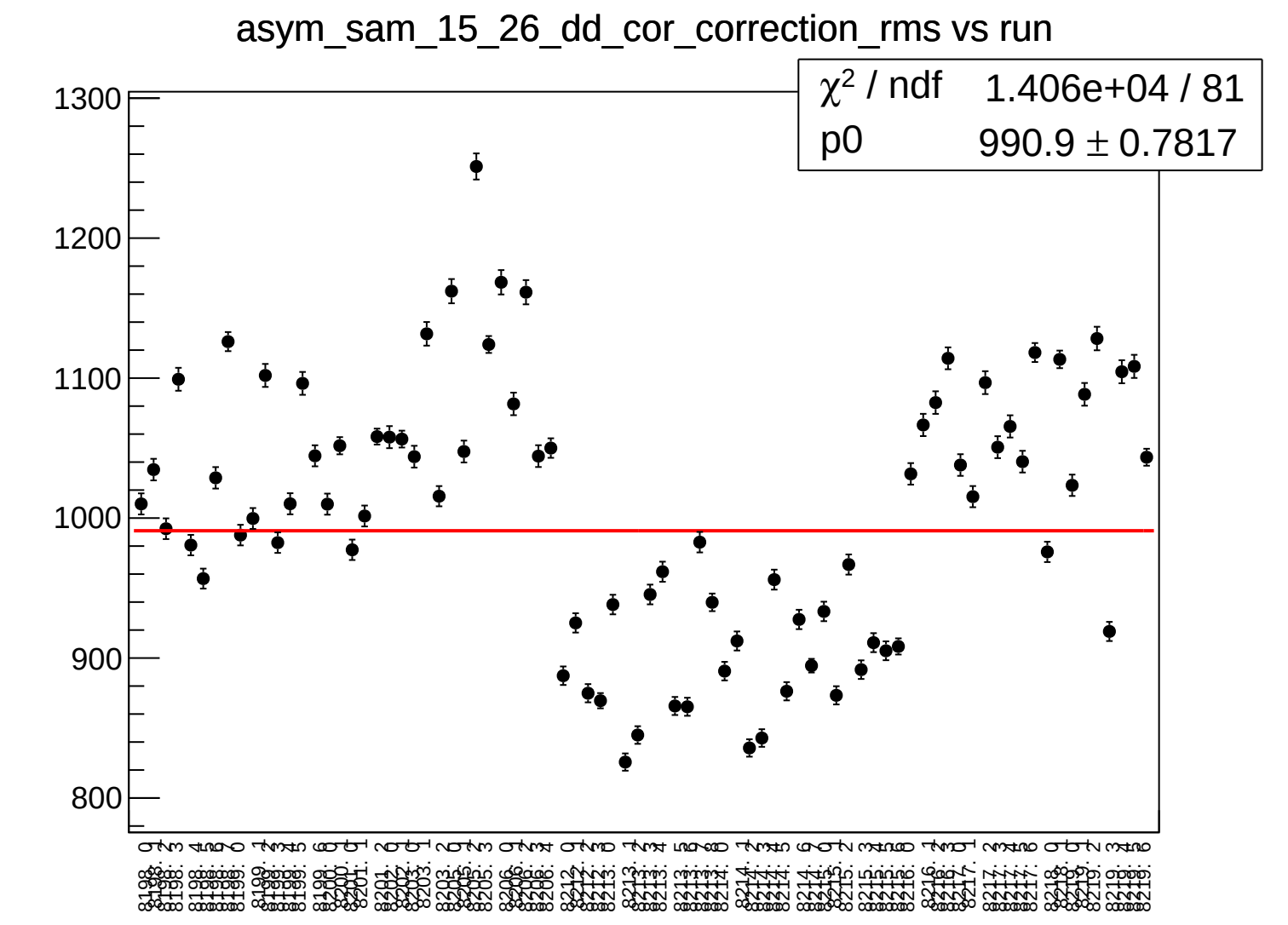

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 101.4 / 81
p0 −104 ± 86.47
pull
Entries 82
Mean 78.48
Std Dev 42.62

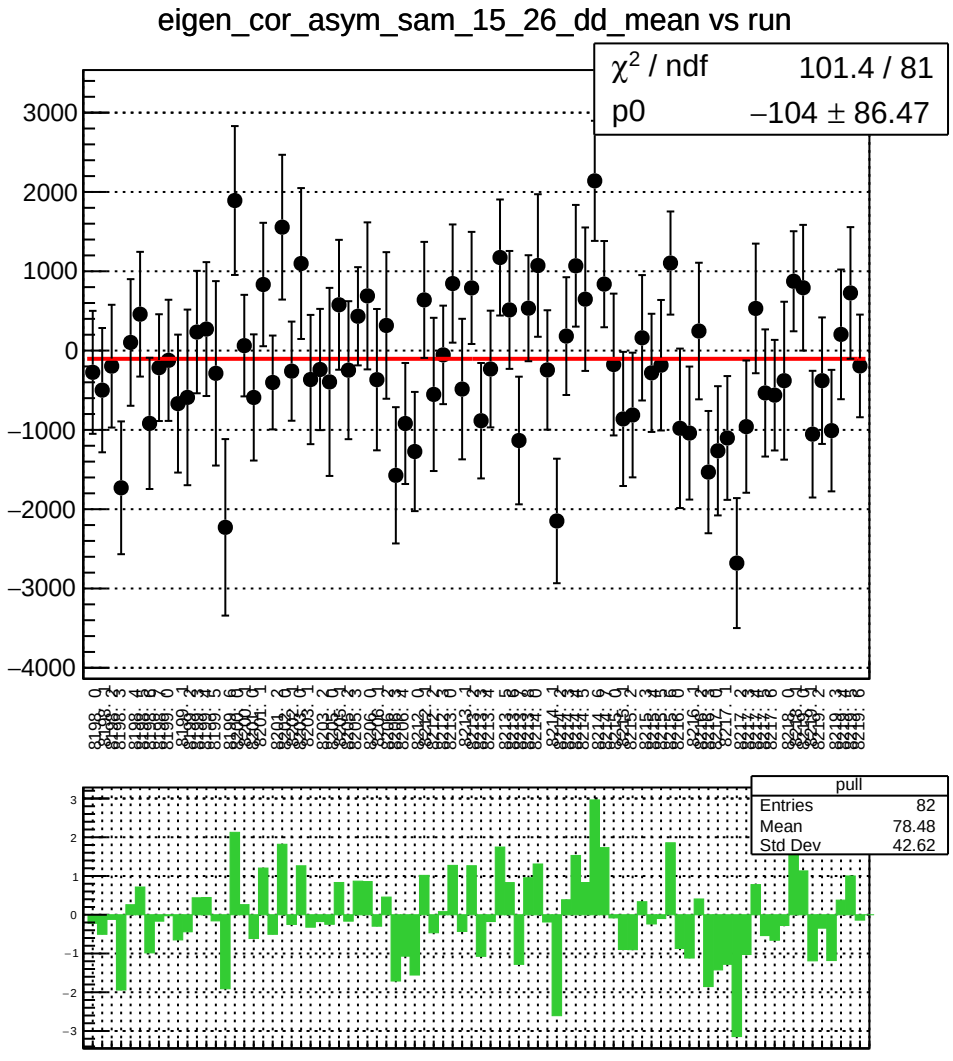

pull1D
Entries 82
Mean −0.03161
Std Dev 1.112

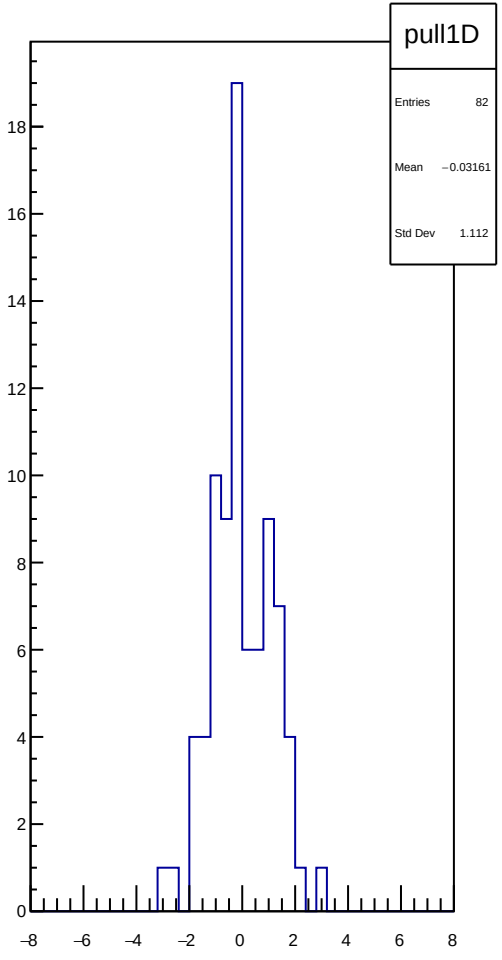

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.455e+04 / 81
p0 77.5 ± 0.06114
110
100
90
80
70

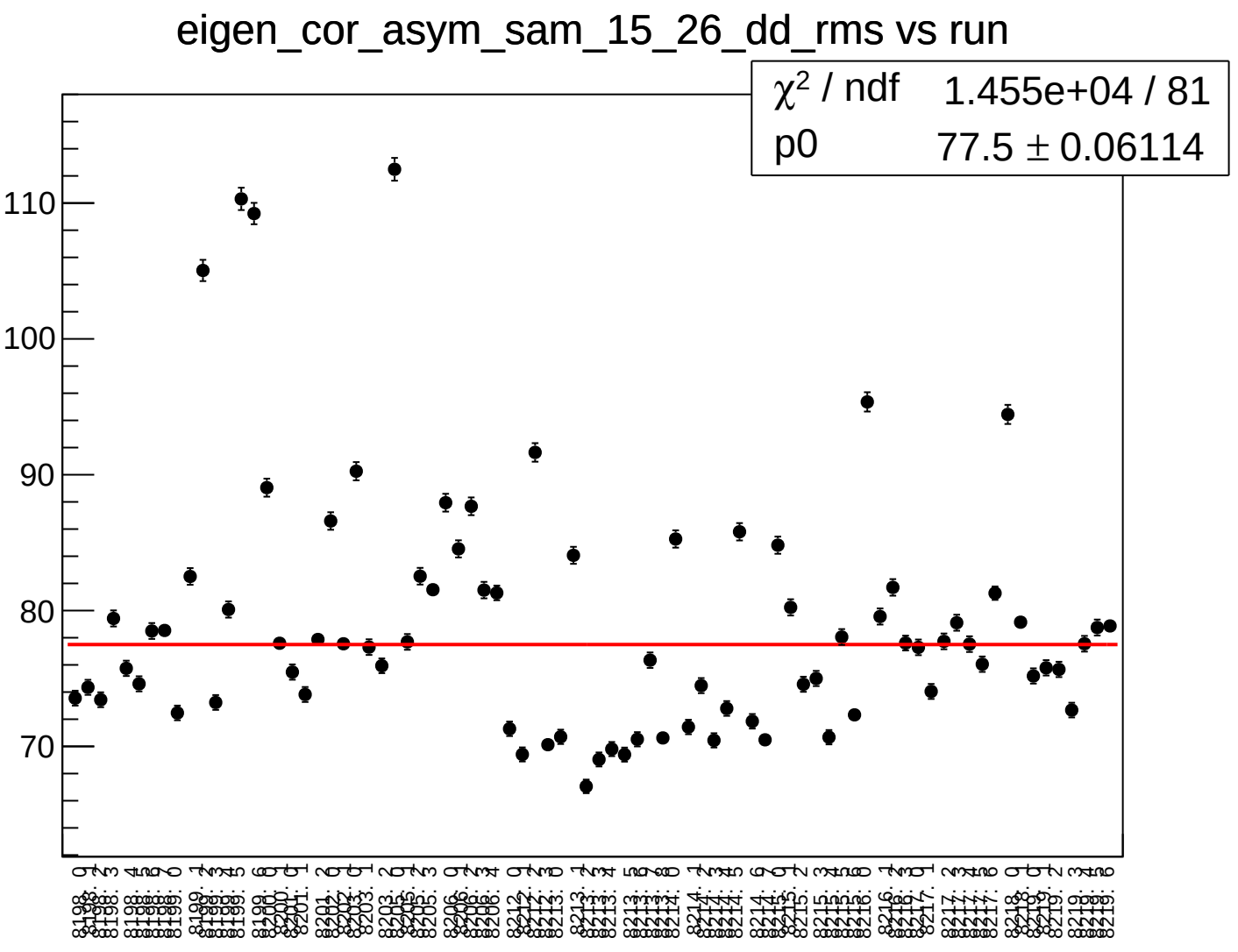

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 85.4 / 81
p0 588 ± 1105
pull
Entries 82
Mean 73.13
Std Dev 0

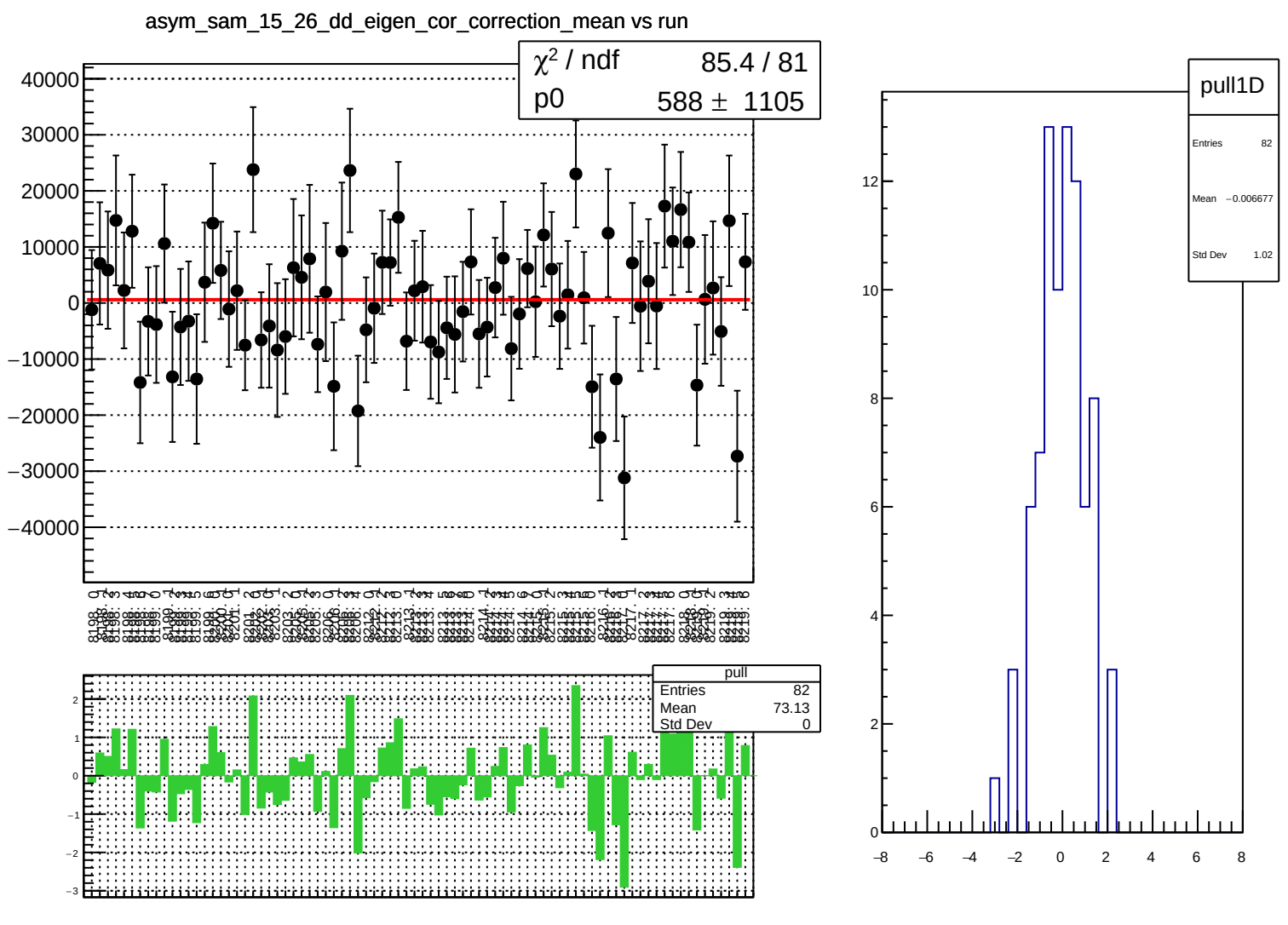

pull1D
Entries 82
Mean −0.006677
Std Dev 1.02

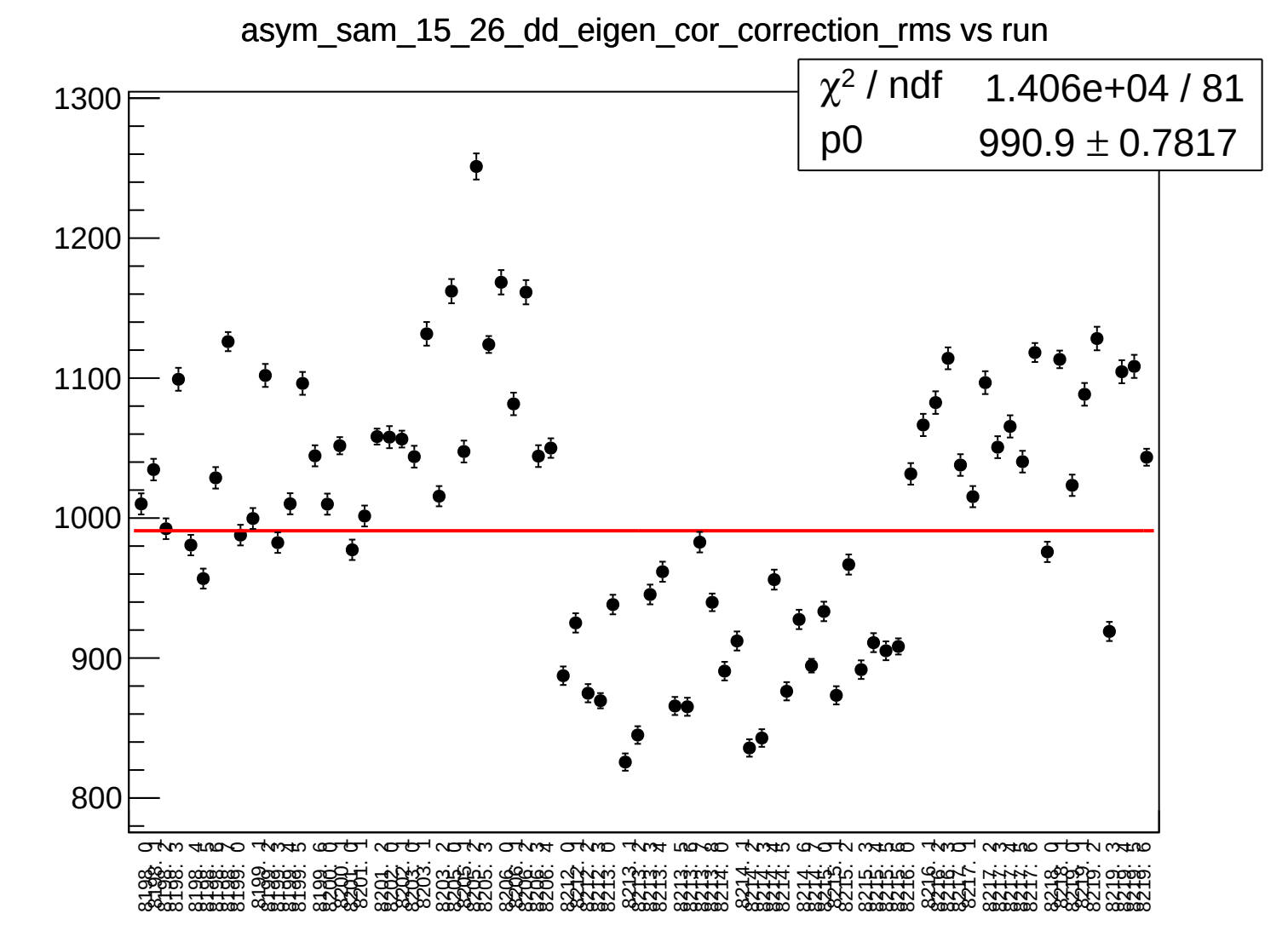

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.406e+04 / 81
p0 990.9 ± 0.7817
1300
1200
1100
1000
900
800

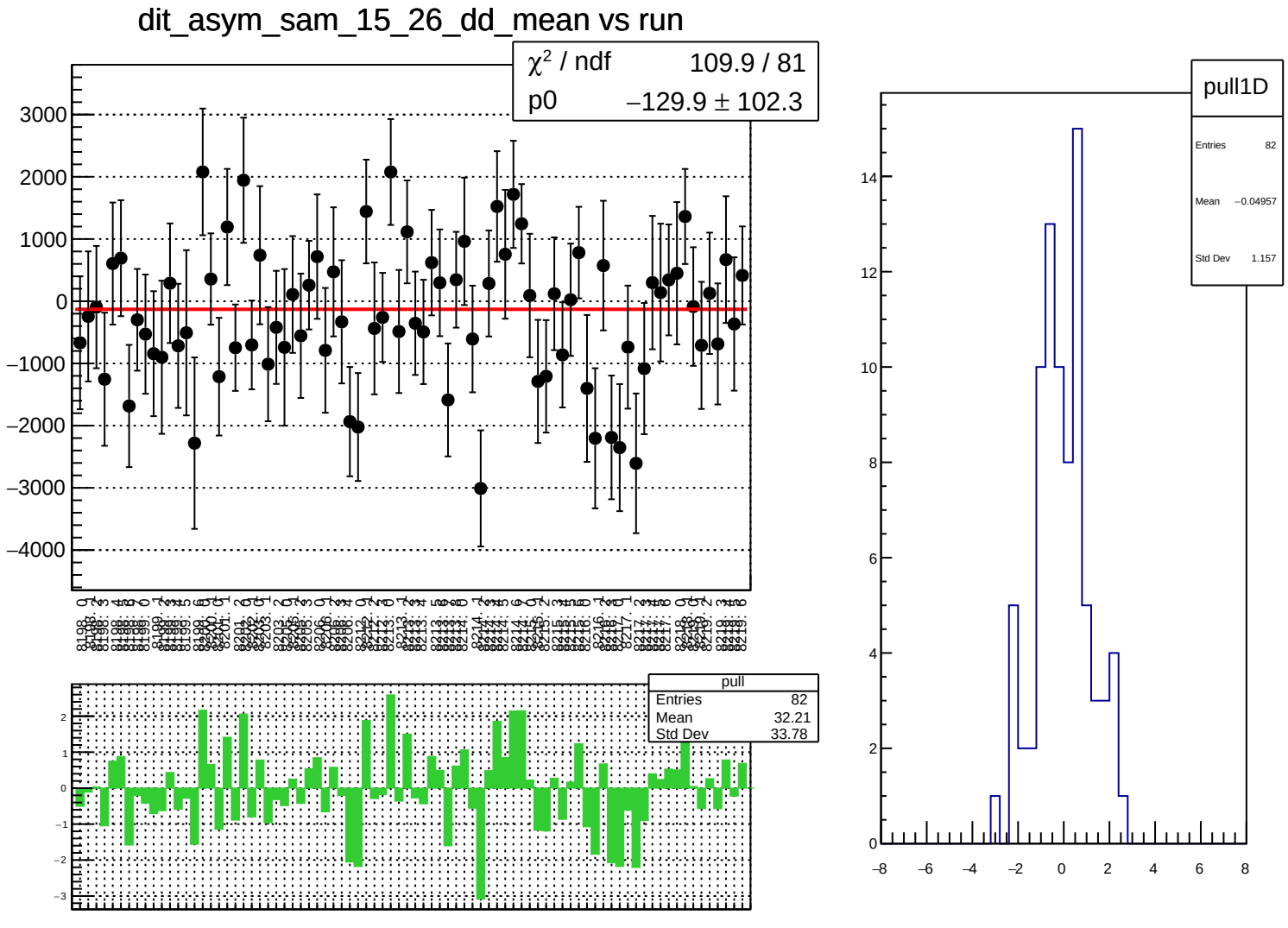

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 101.4 / 81
p0 −104 ± 86.47
pull
Entries 82
Mean 78.48
Std Dev 42.62

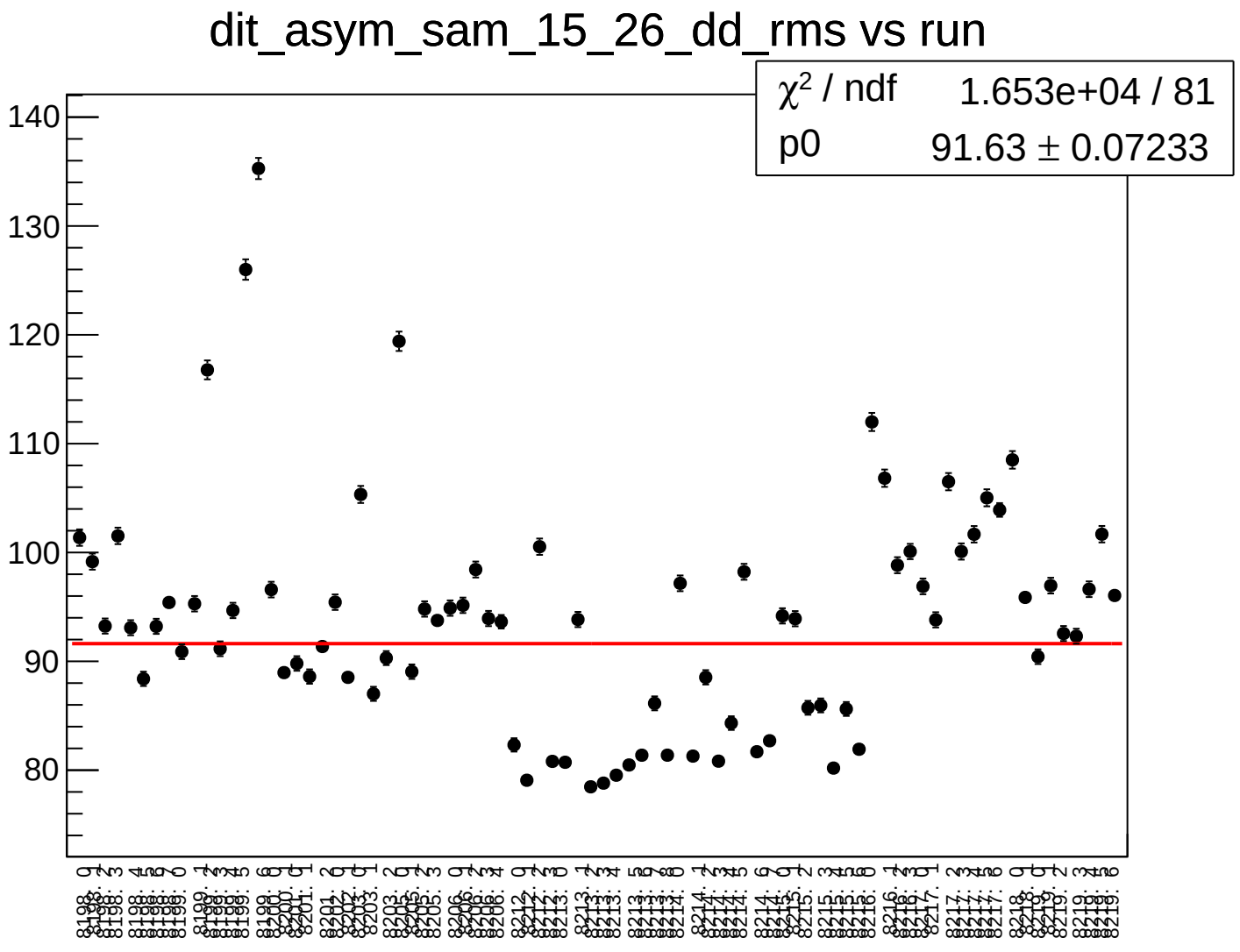

pull1D
Entries 82
Mean −0.03161
Std Dev 1.112

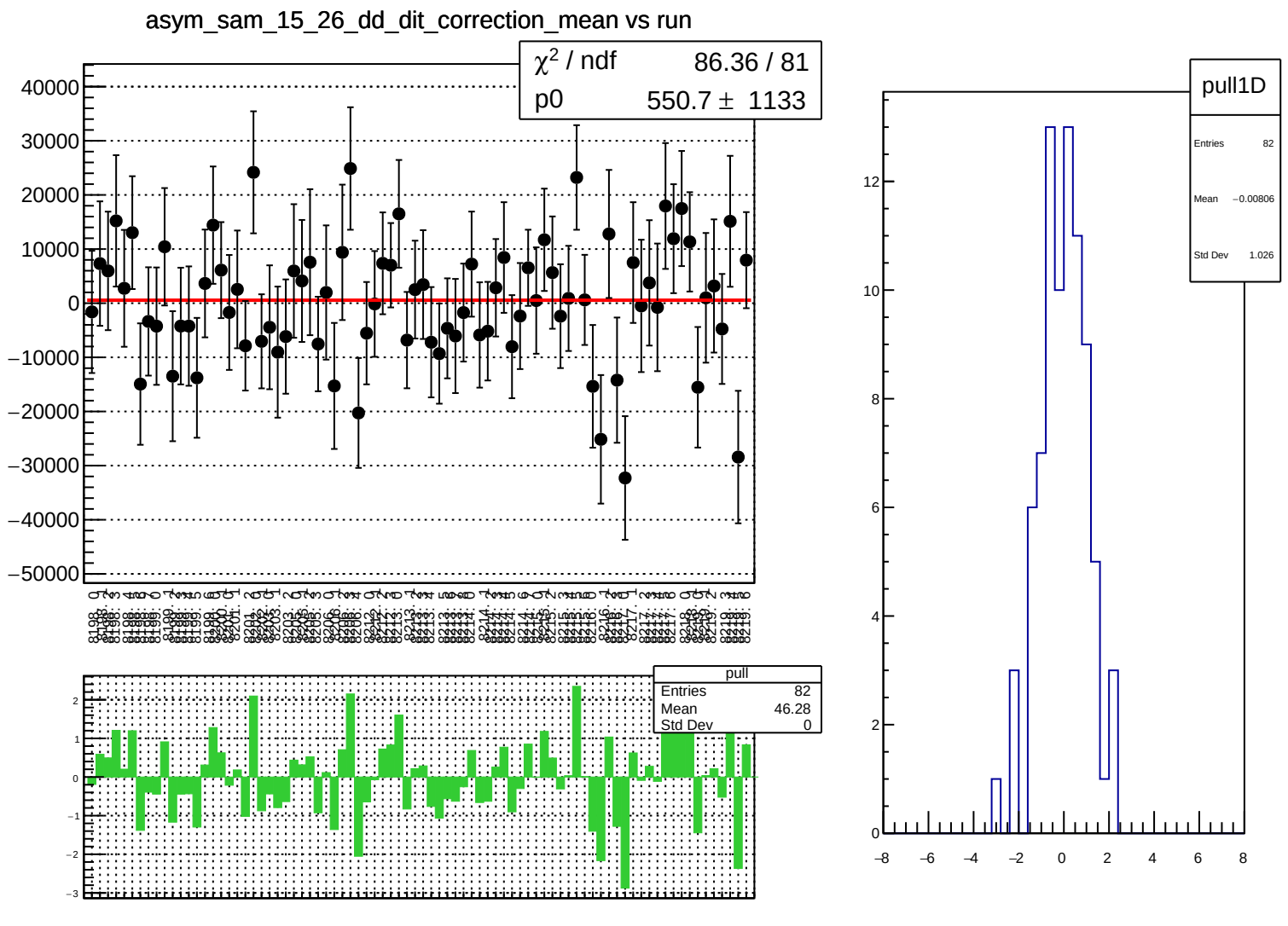

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.455e+04 / 81
p0 77.5 ± 0.06114
110
100
90
80
70

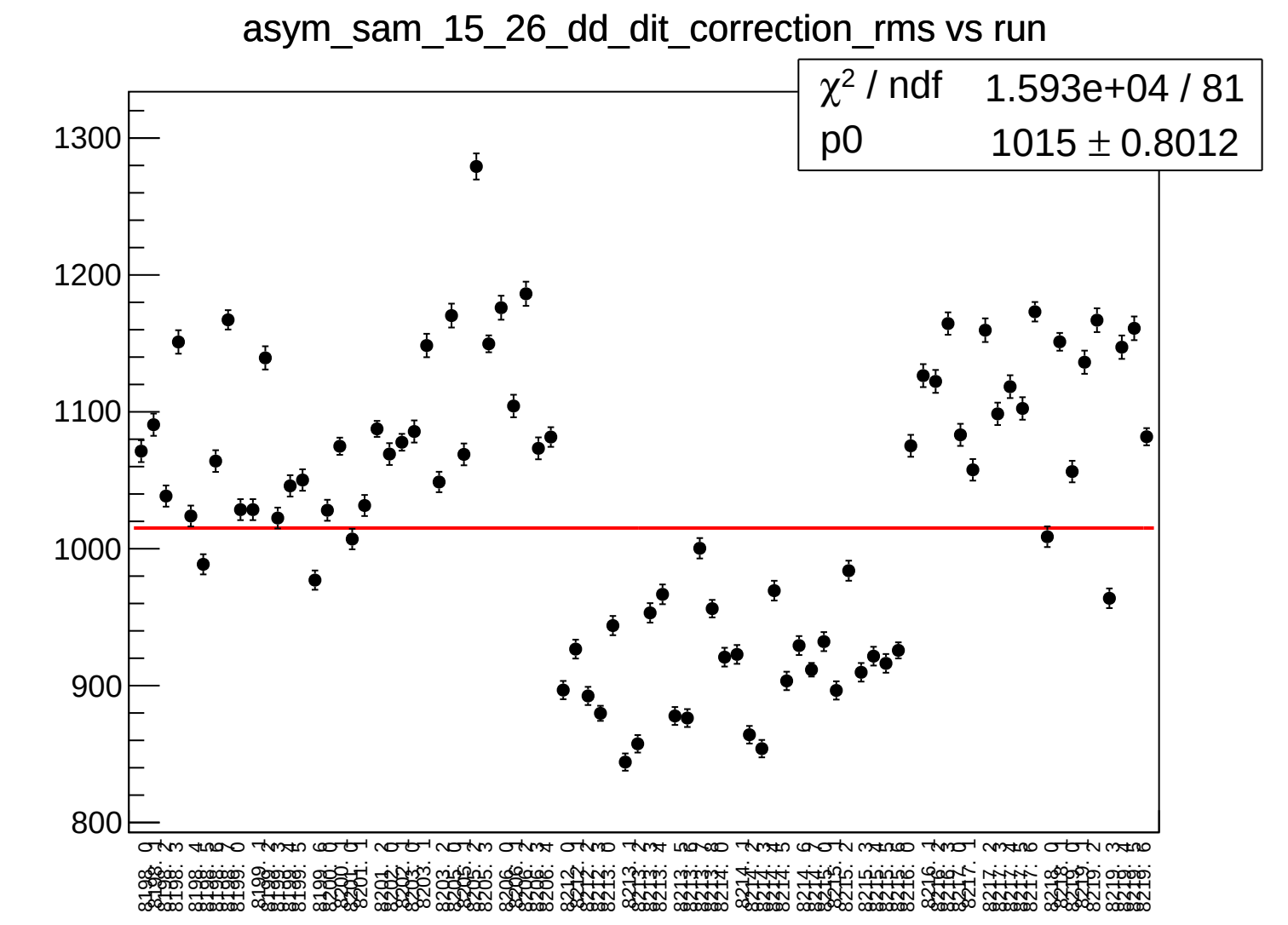

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.4 / 81
p0 588 ± 1105
pull
Entries 82
Mean 73.13
Std Dev 0
pull1D
Entries 82
Mean −0.006677
Std Dev 1.02

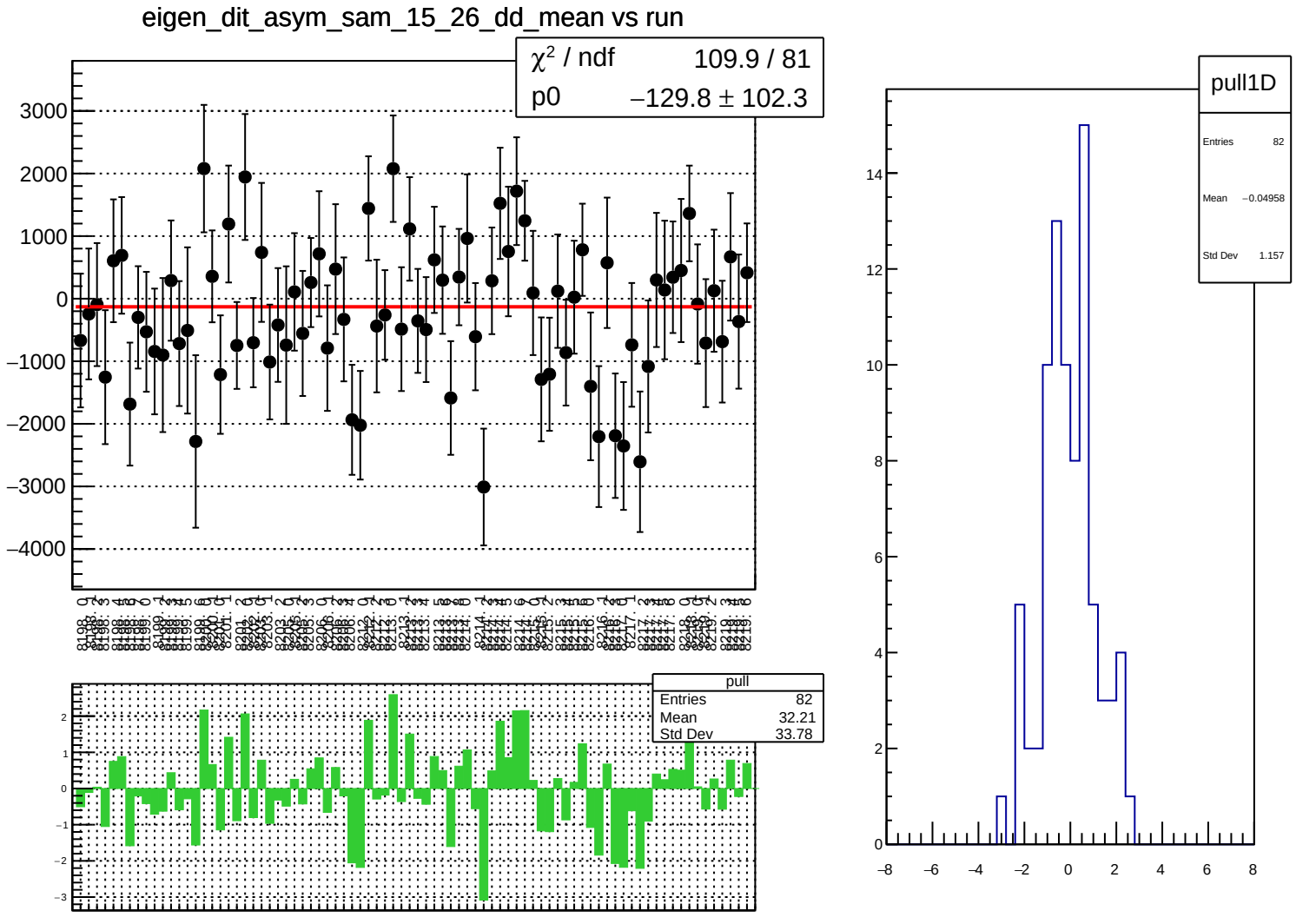

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.406e+04 / 81
p0 990.9 ± 0.7817
1300
1200
1100
1000
900
800

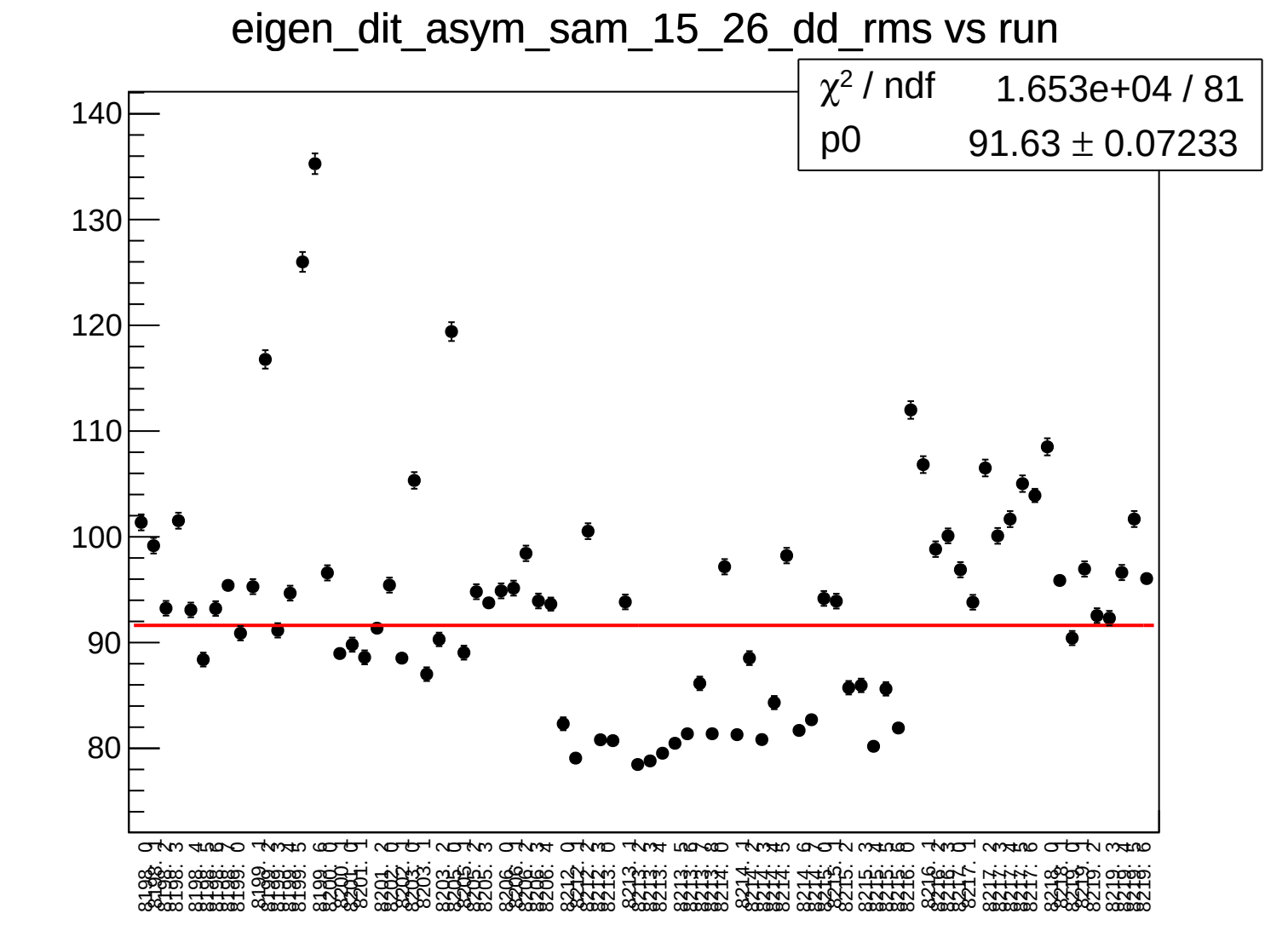

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 109.9 / 81
p0 −129.9 ± 102.3
pull
Entries 82
Mean 32.21
Std Dev 33.78
pull1D
Entries 82
Mean −0.04957
Std Dev 1.157

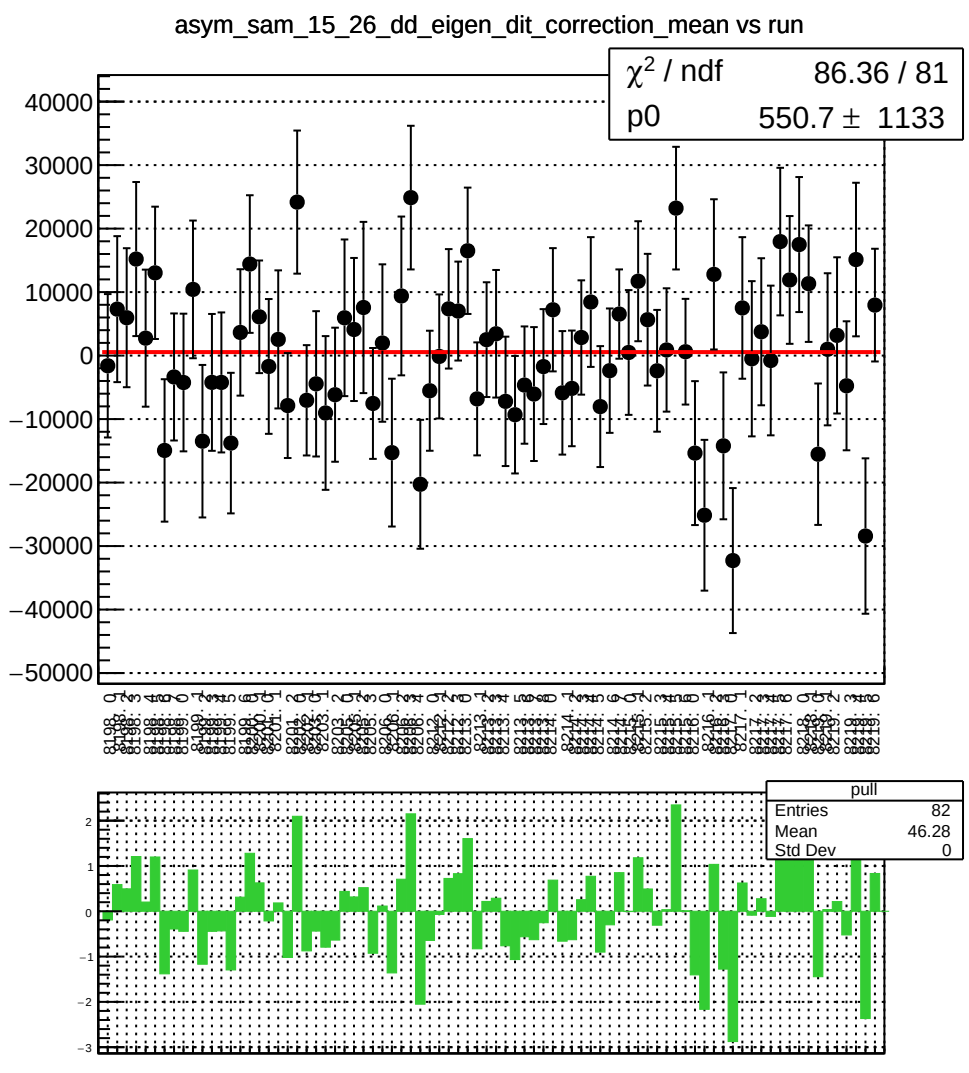

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.653e+04 / 81
p0 91.63 ± 0.07233
140
130
120
110
100
90
80

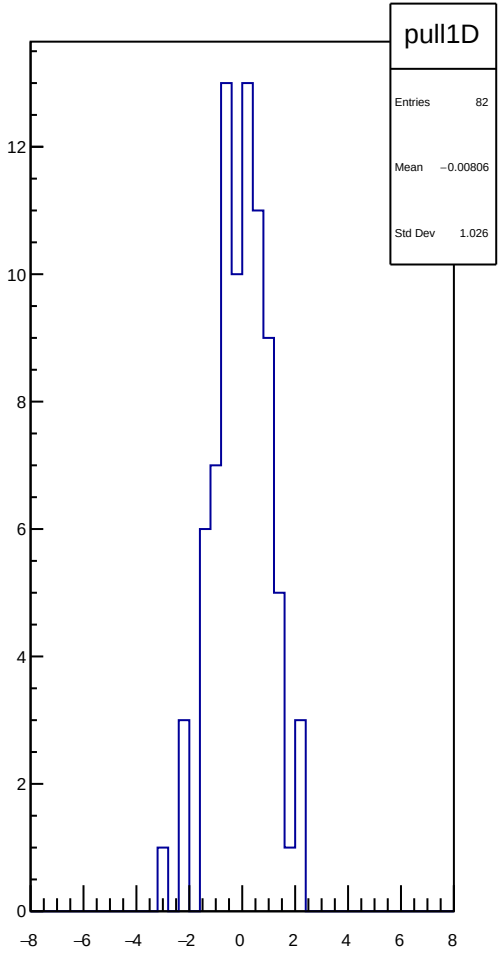

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 86.36 / 81
p0 550.7 ± 1133
pull
Entries 82
Mean 46.28
Std Dev 0
pull1D
Entries 82
Mean −0.00806
Std Dev 1.026

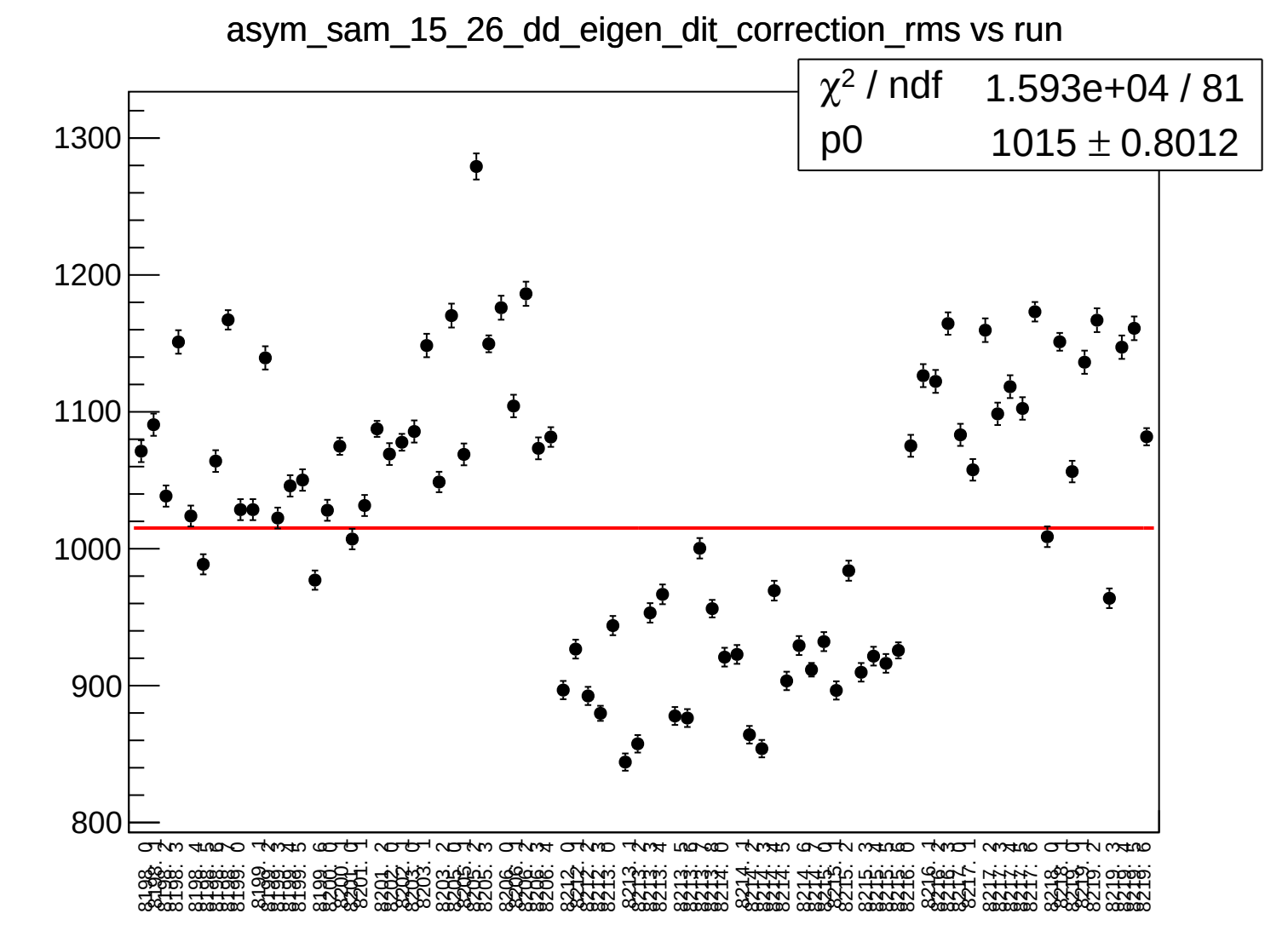

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 1.593e+04 / 81
p0 1015 ± 0.8012
1300
1200
1100
1000
900
800

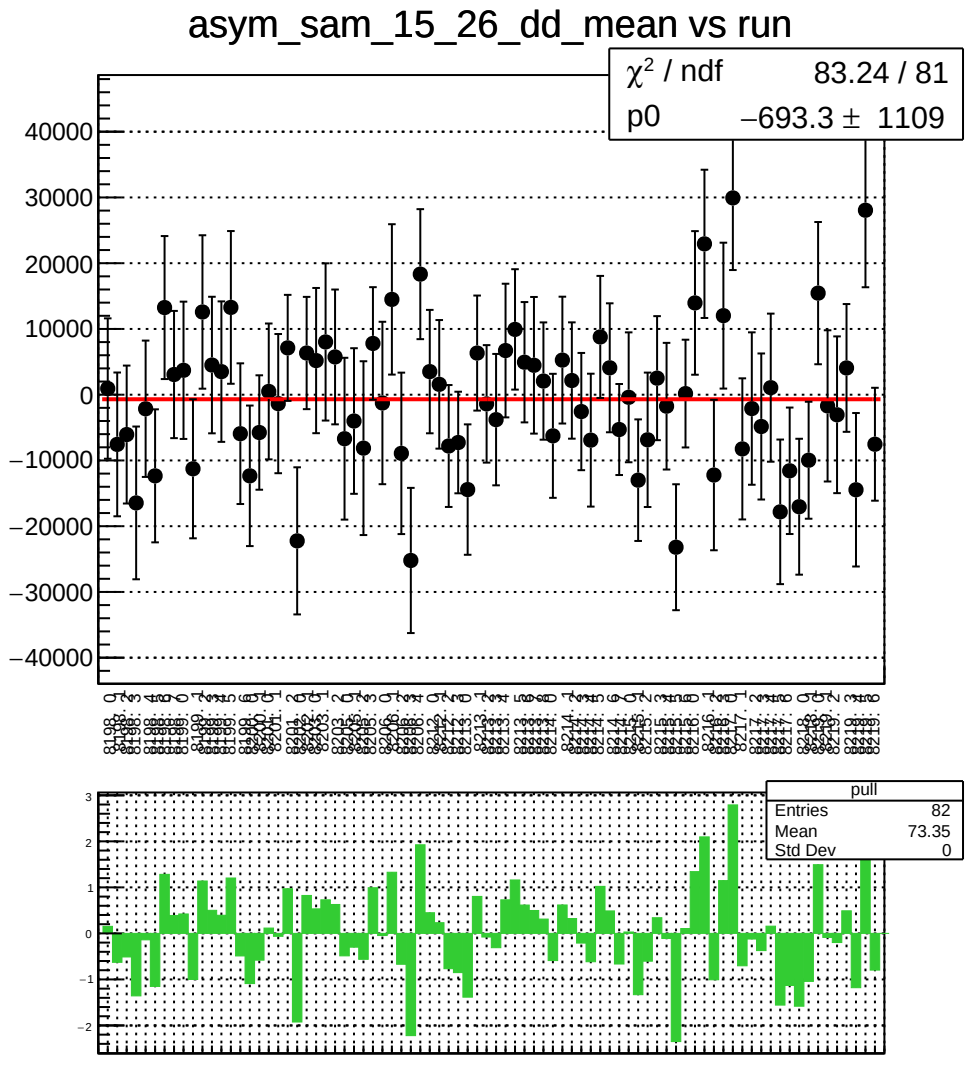

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 109.9 / 81
p0 −129.8 ± 102.3
pull
Entries 82
Mean 32.21
Std Dev 33.78
pull1D
Entries 82
Mean −0.04958
Std Dev 1.157

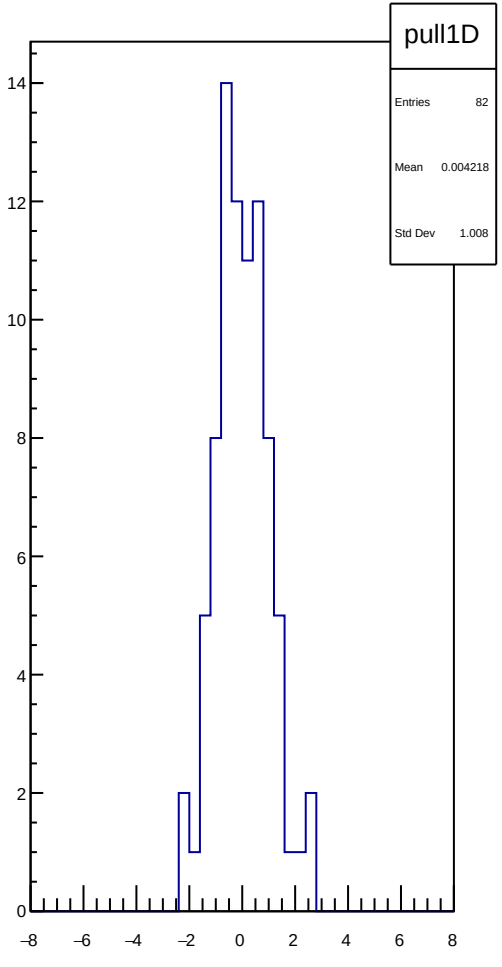

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.653e+04 / 81
p0 91.63 ± 0.07233
140
130
120
110
100
90
80

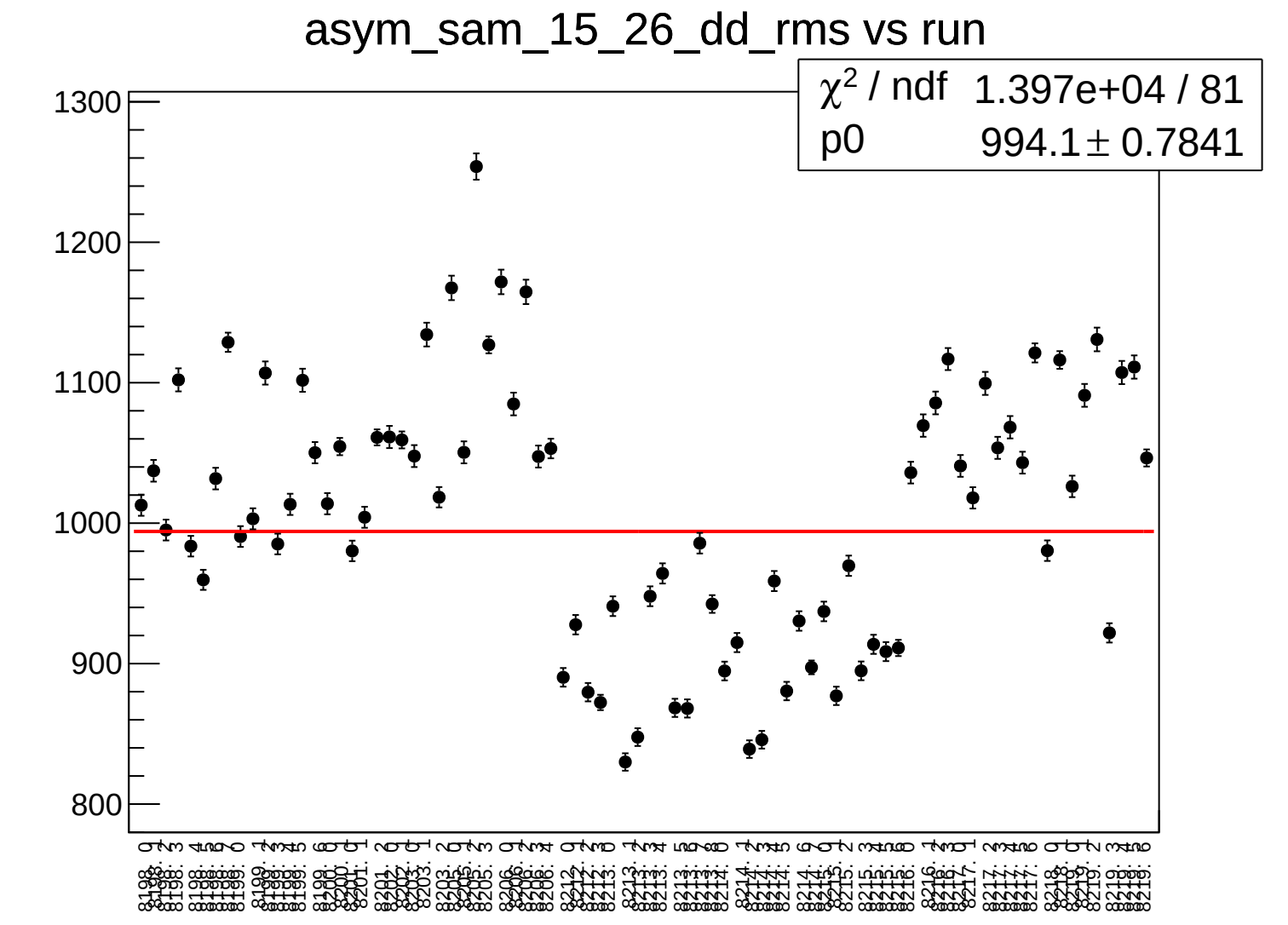

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.36 / 81
p0 550.7 ± 1133
pull
Entries 82
Mean 46.28
Std Dev 0

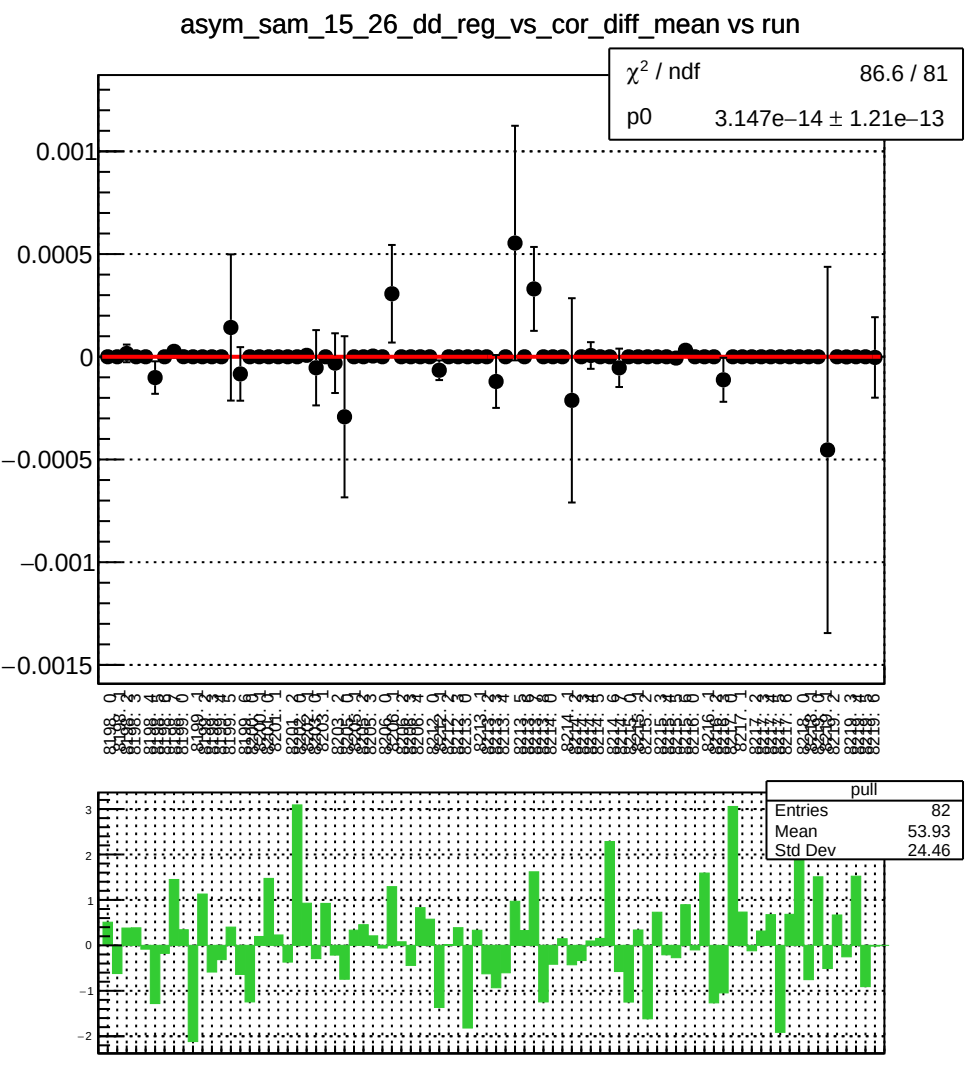

pull1D
Entries 82
Mean −0.00806
Std Dev 1.026

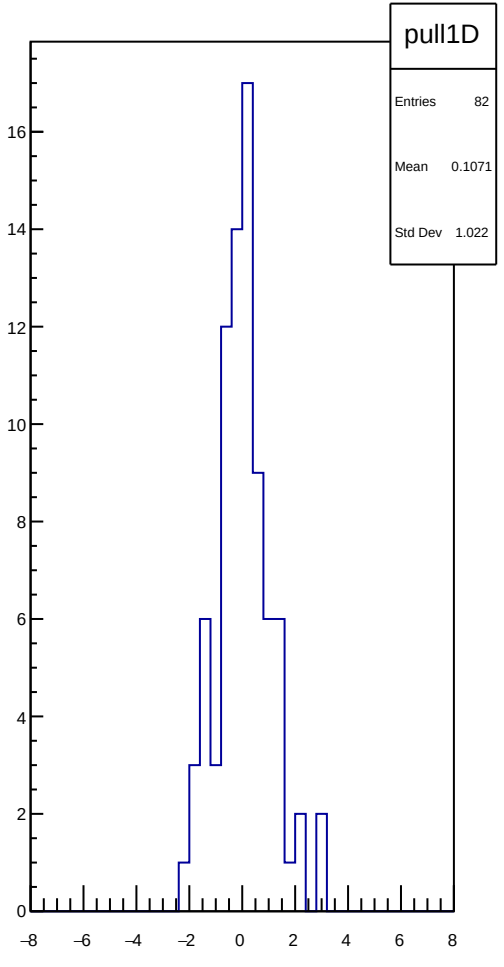

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.593e+04 / 81
p0 1015 ± 0.8012
1300
1200
1100
1000
900
800

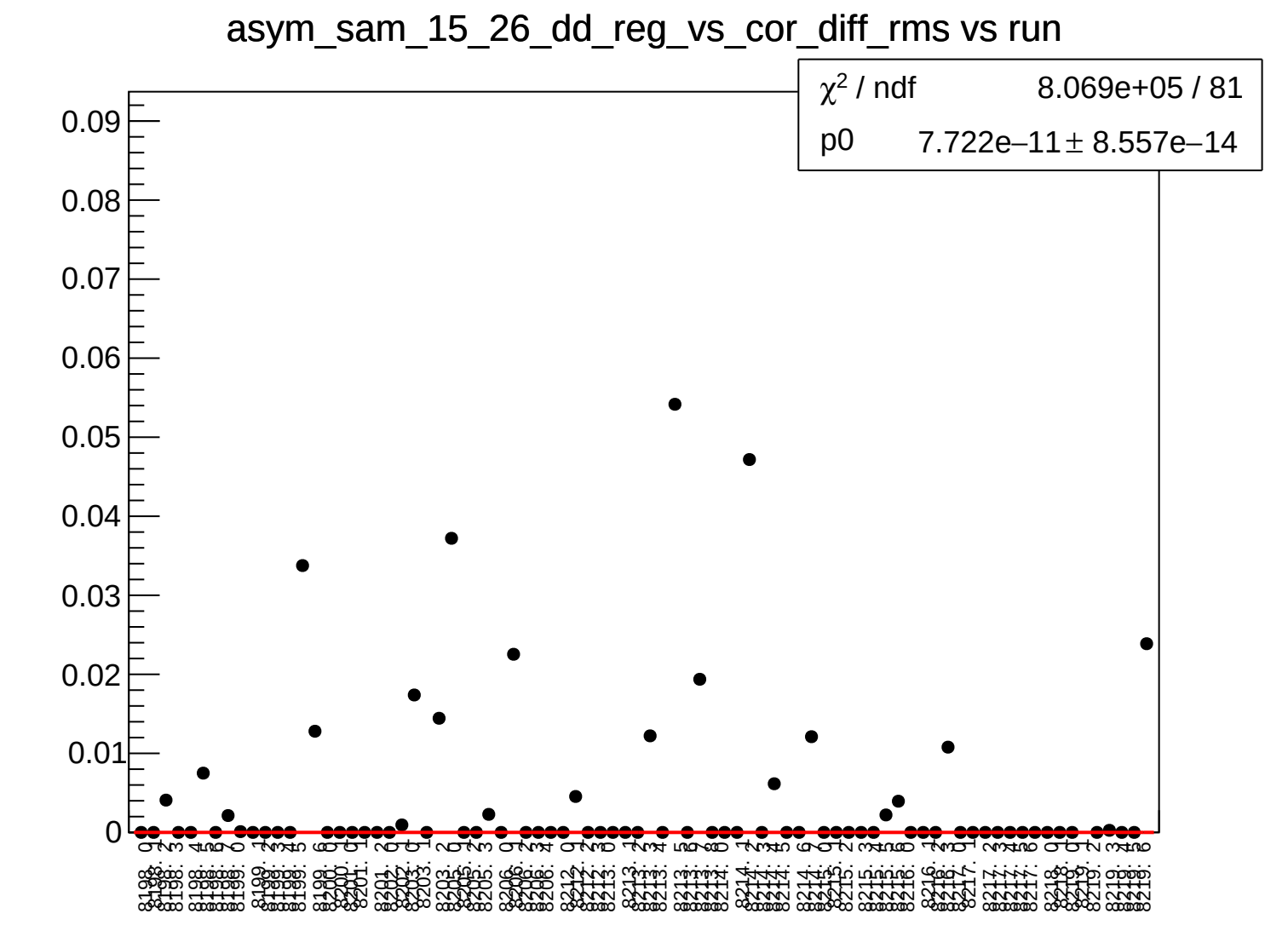

asym_sam_15_26_dd_mean vs run
χ² / ndf 83.24 / 81
p0 −693.3 ± 1109
pull
Entries 82
Mean 73.35
Std Dev 0

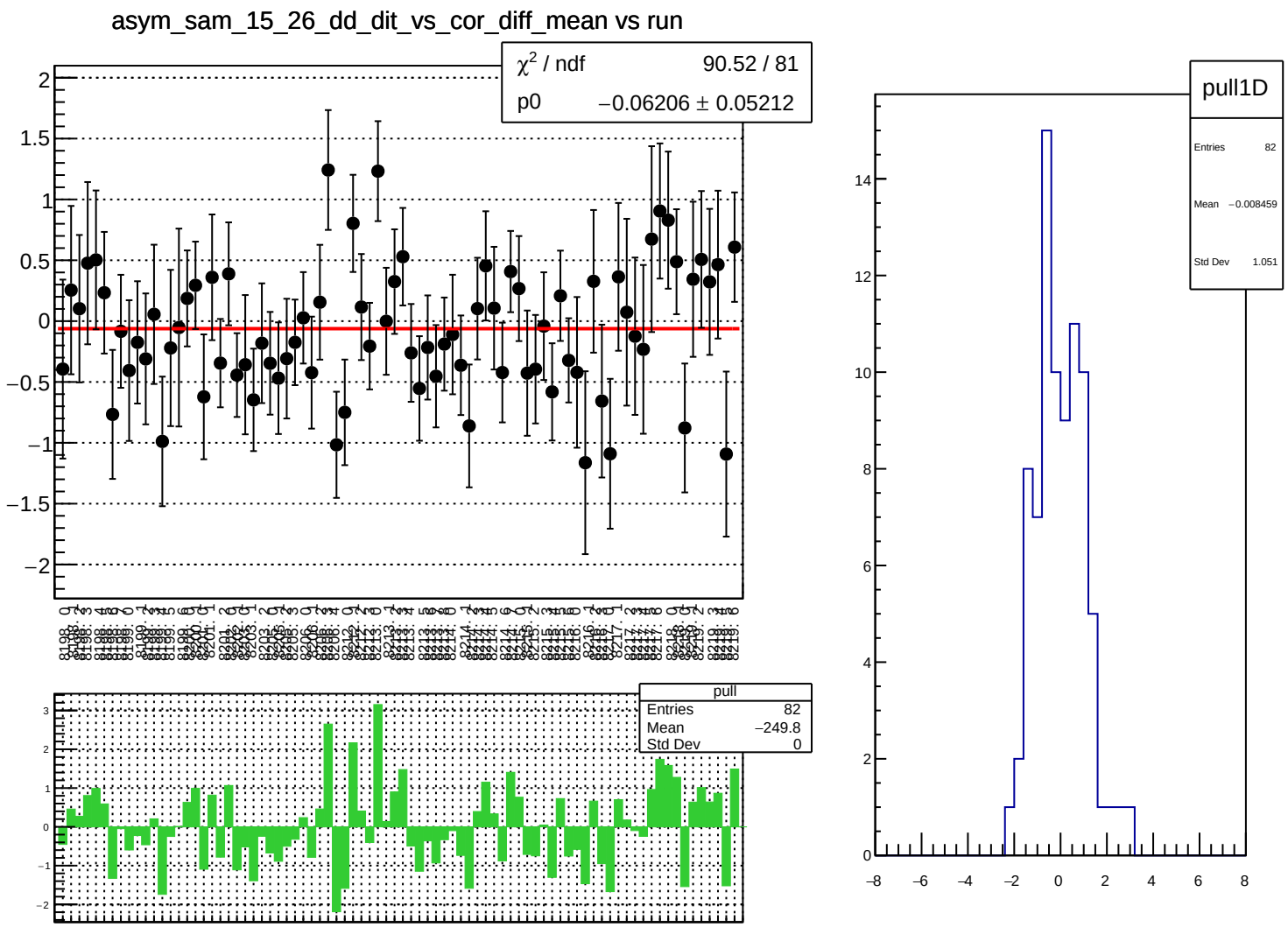

pull1D
Entries 82
Mean 0.004218
Std Dev 1.008

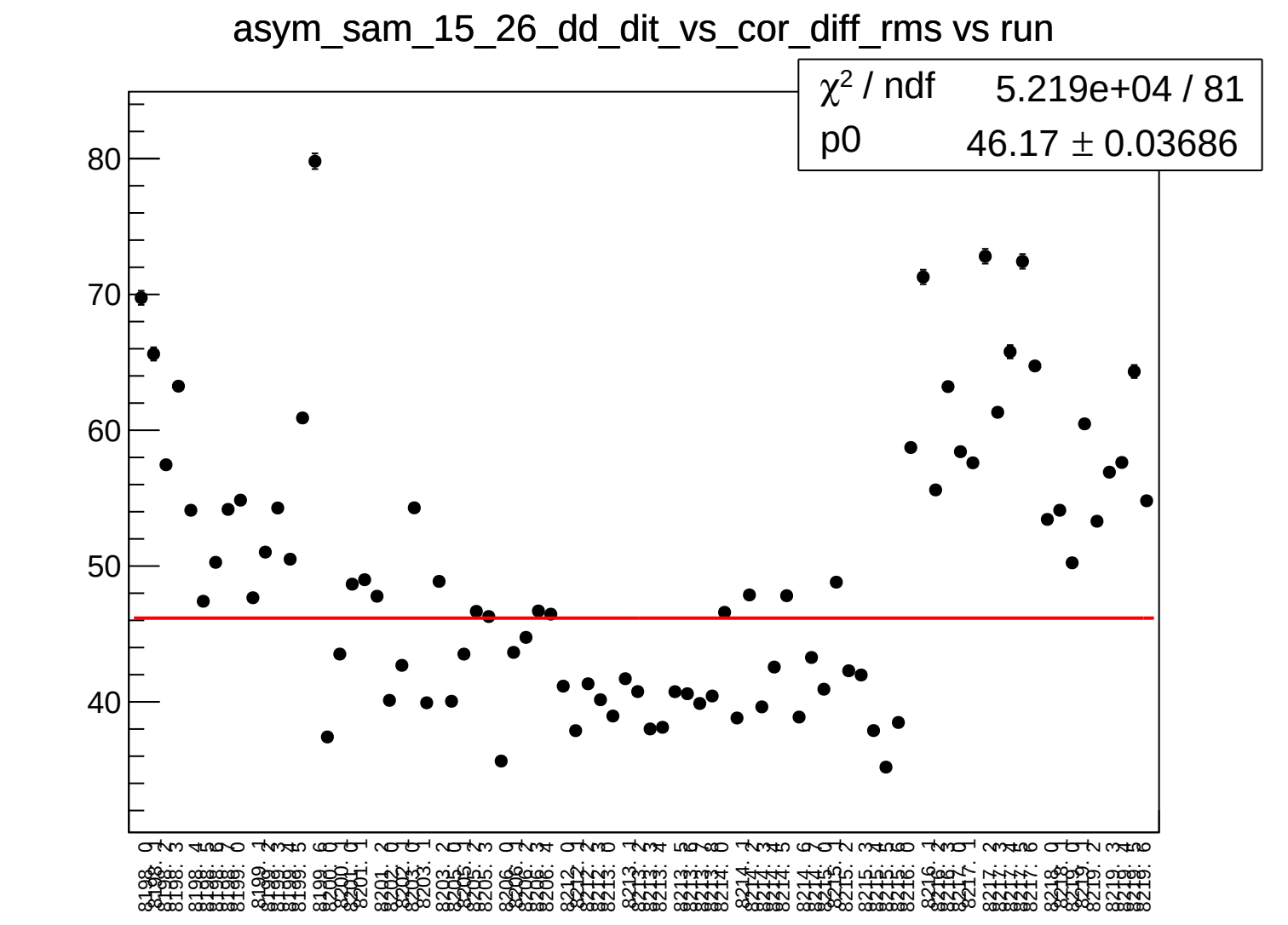

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.397e+04 / 81
p0 994.1 ± 0.7841
1300
1200
1100
1000
900
800

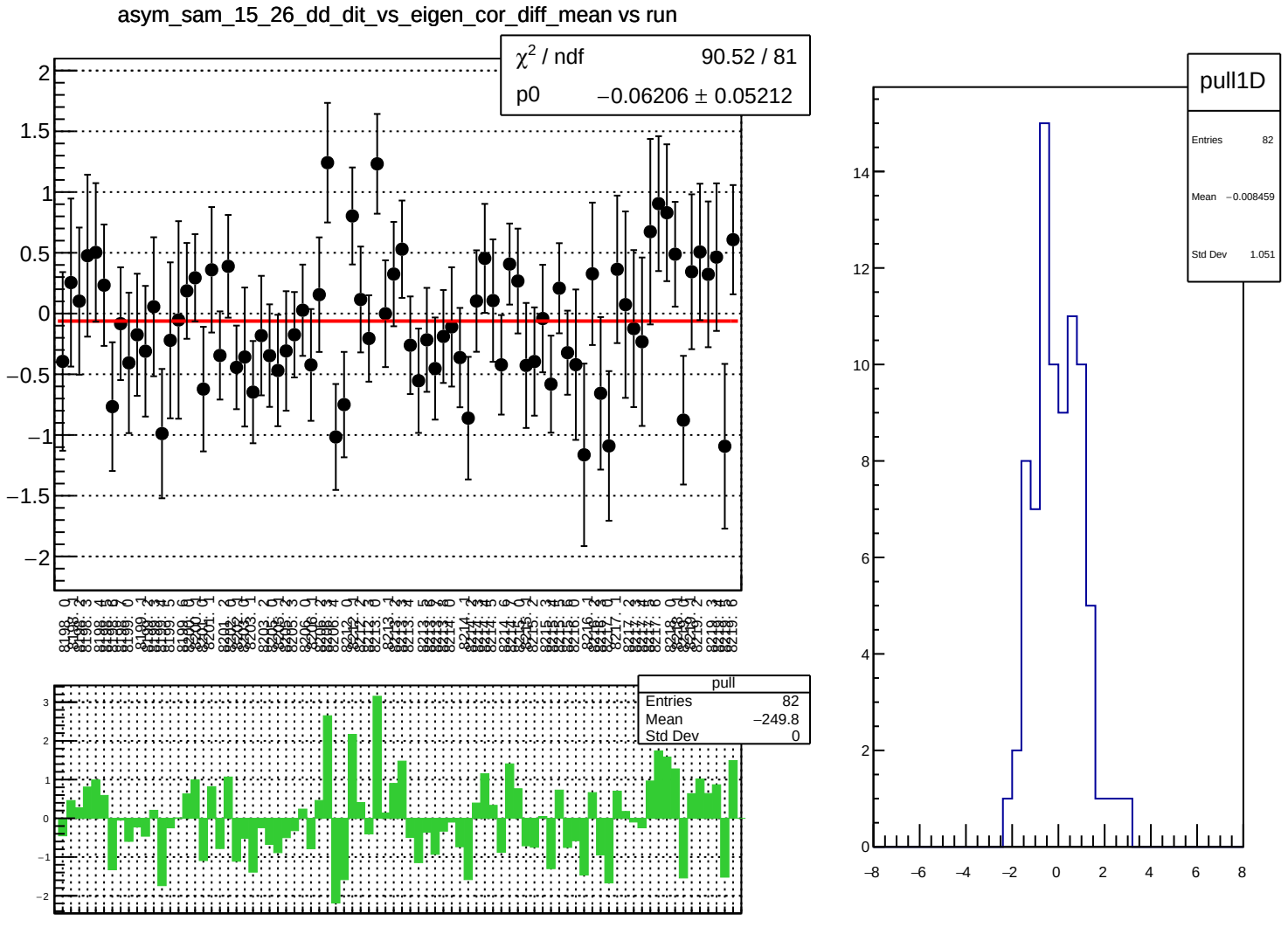

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.6 / 81
p0 3.147e−14 ± 1.21e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean 53.93
Std Dev 24.46
3
2
1
0
−1
−2

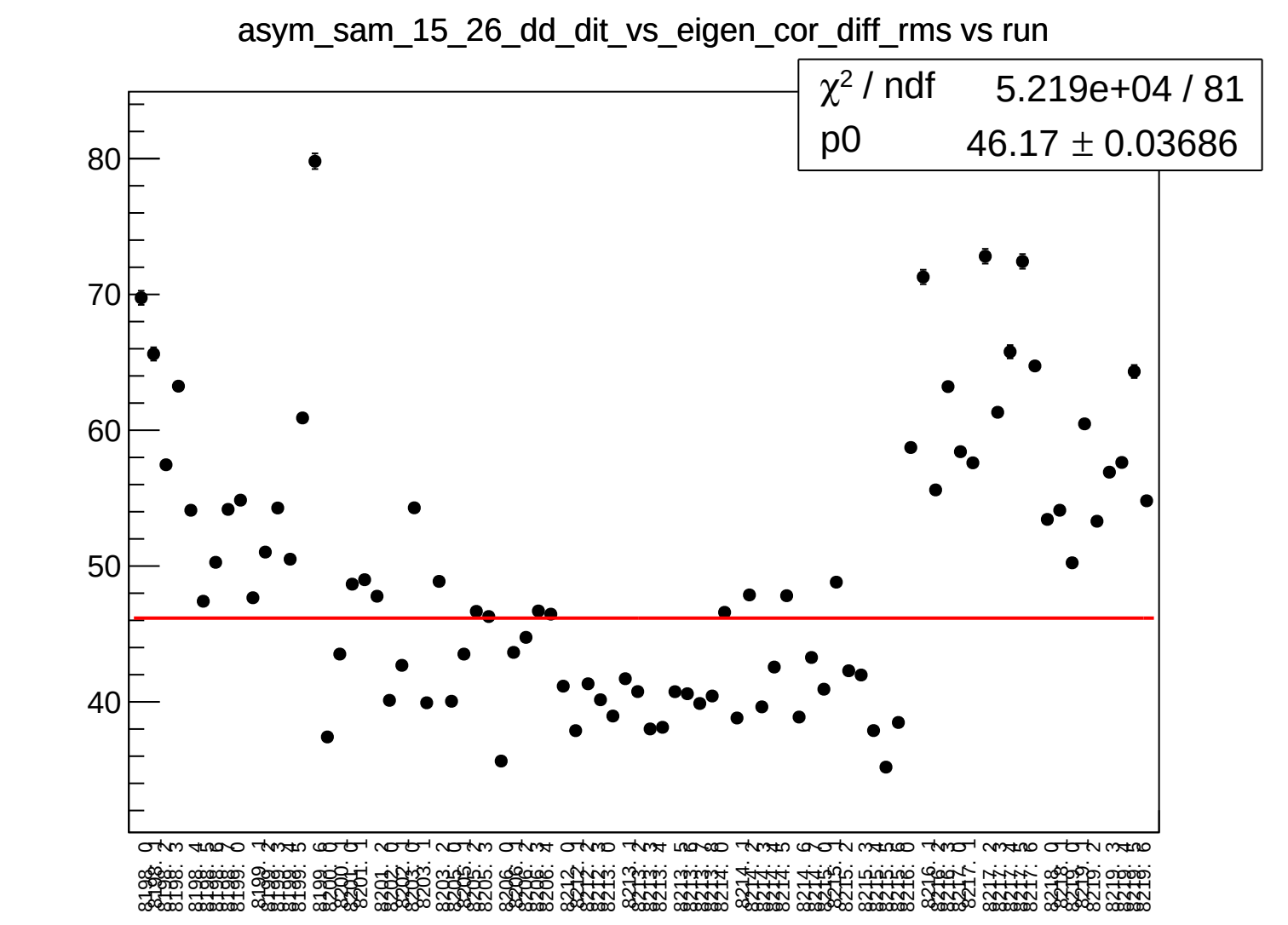

pull1D
Entries 82
Mean 0.1071
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

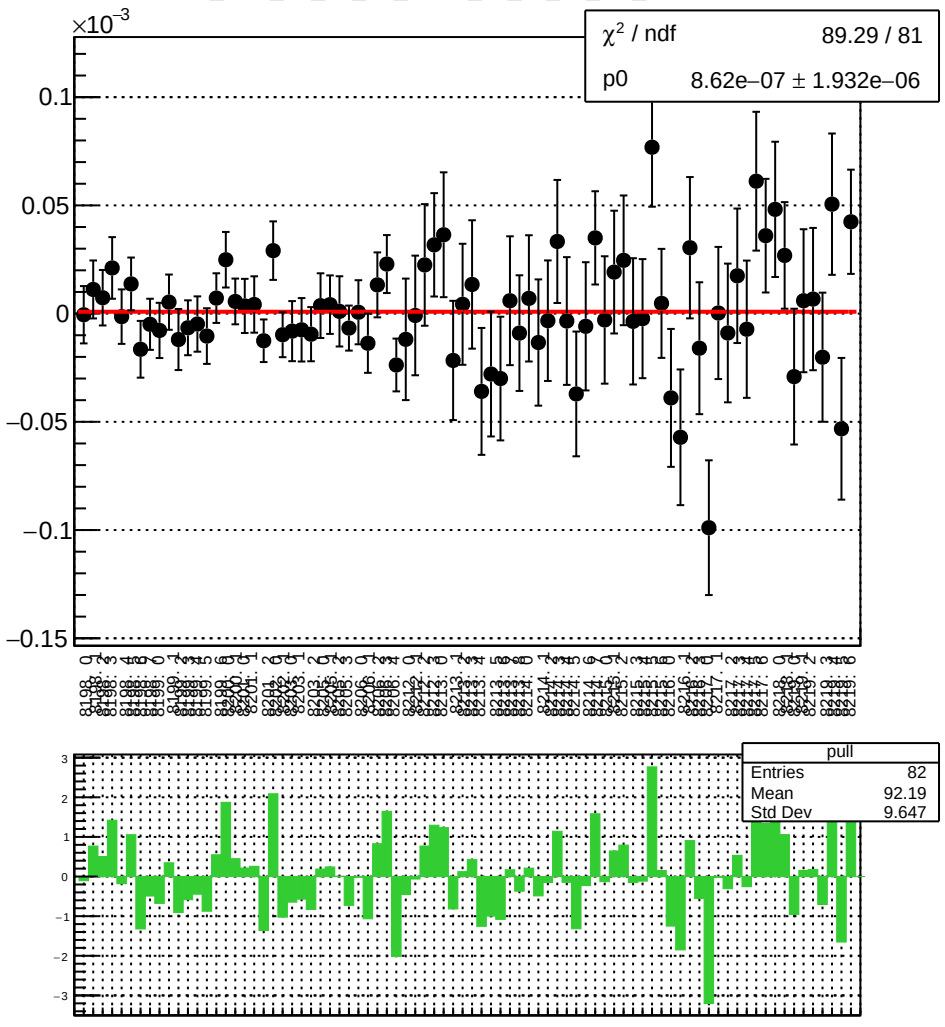

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.069e+05 / 81
p0 7.722e−11 ± 8.557e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

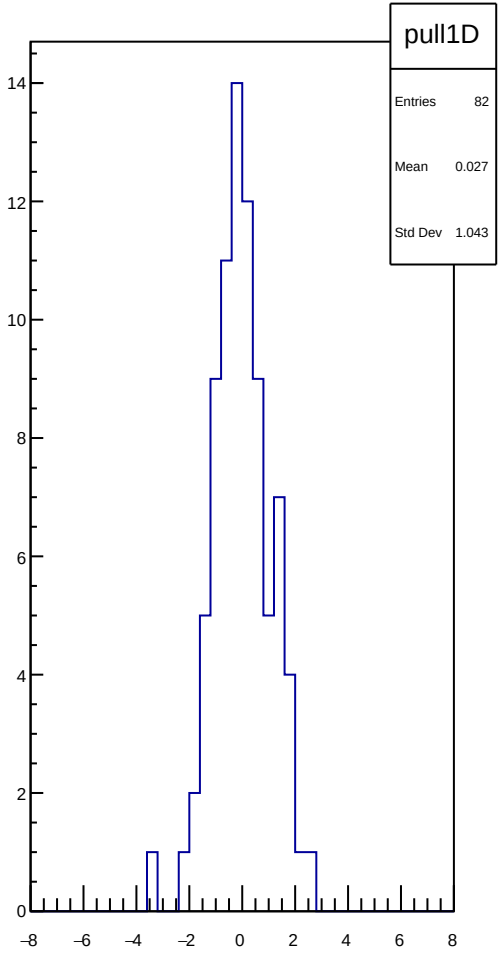

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.52 / 81
p0 −0.06206 ± 0.05212
pull
Entries 82
Mean −249.8
Std Dev 0
pull1D
Entries 82
Mean −0.008459
Std Dev 1.051

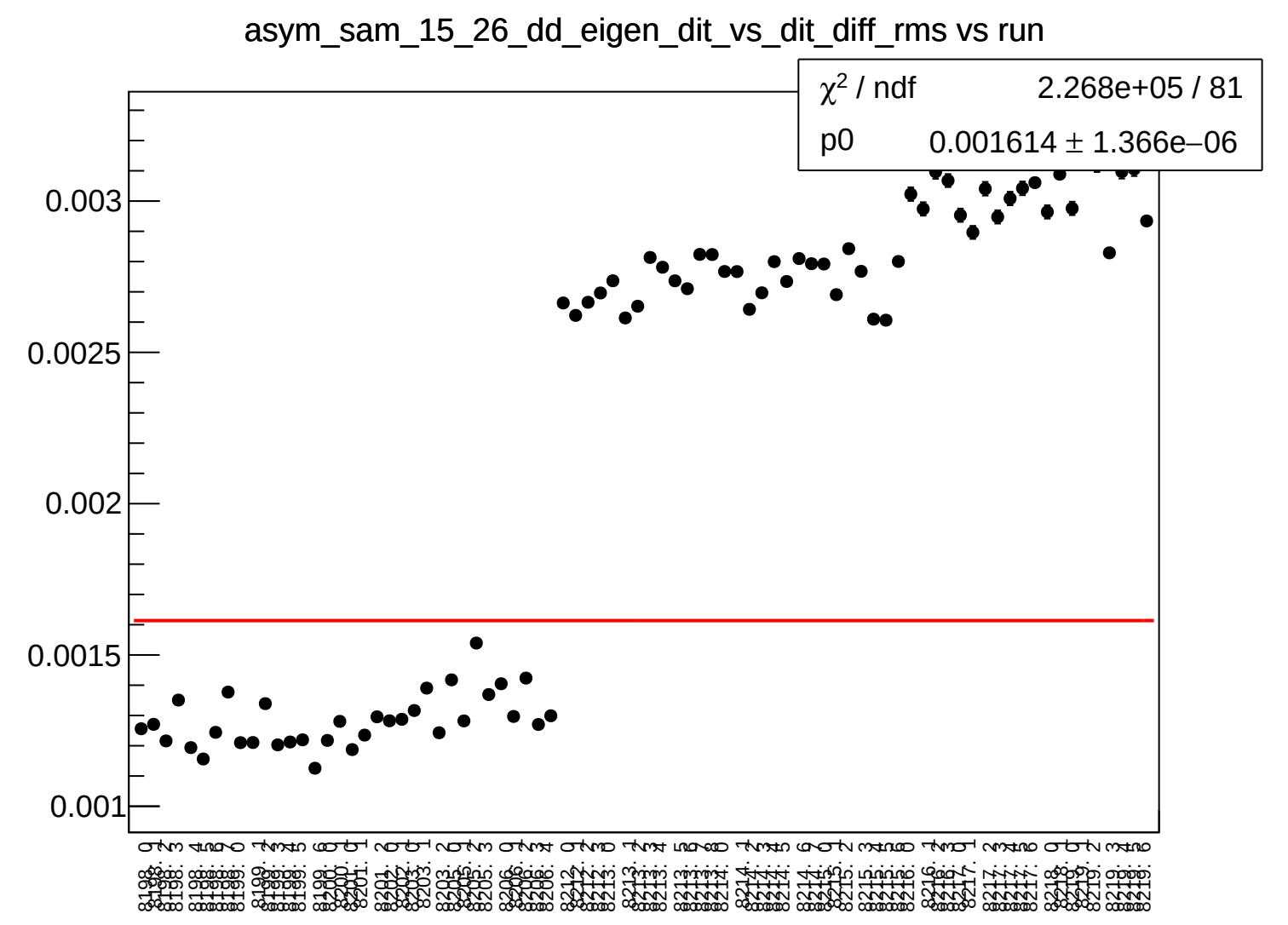

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.219e+04 / 81
p0 46.17 ± 0.03686
80
70
60
50
40

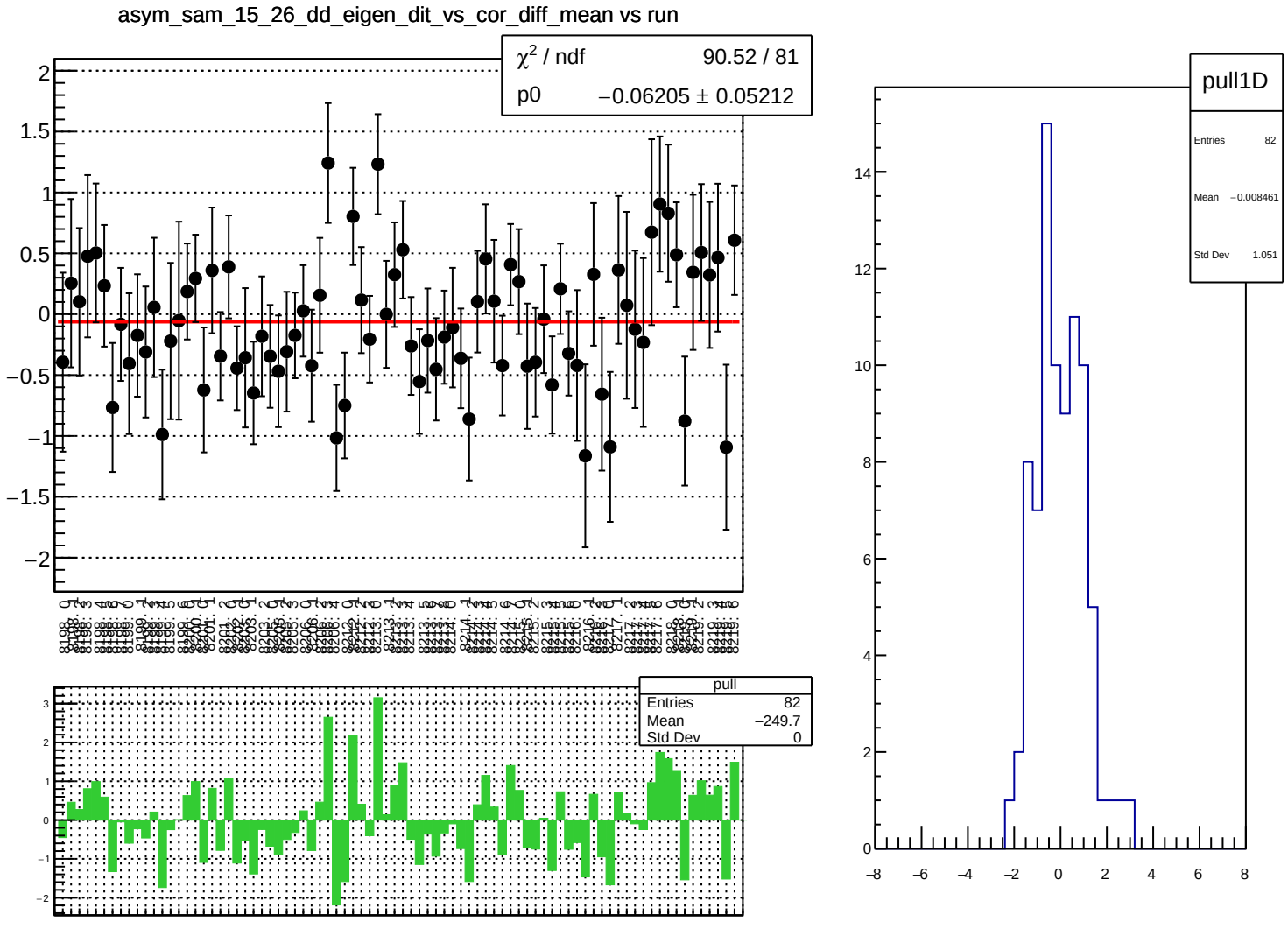

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.52 / 81
p0 −0.06206 ± 0.05212
pull
Entries 82
Mean −249.8
Std Dev 0
pull1D
Entries 82
Mean −0.008459
Std Dev 1.051

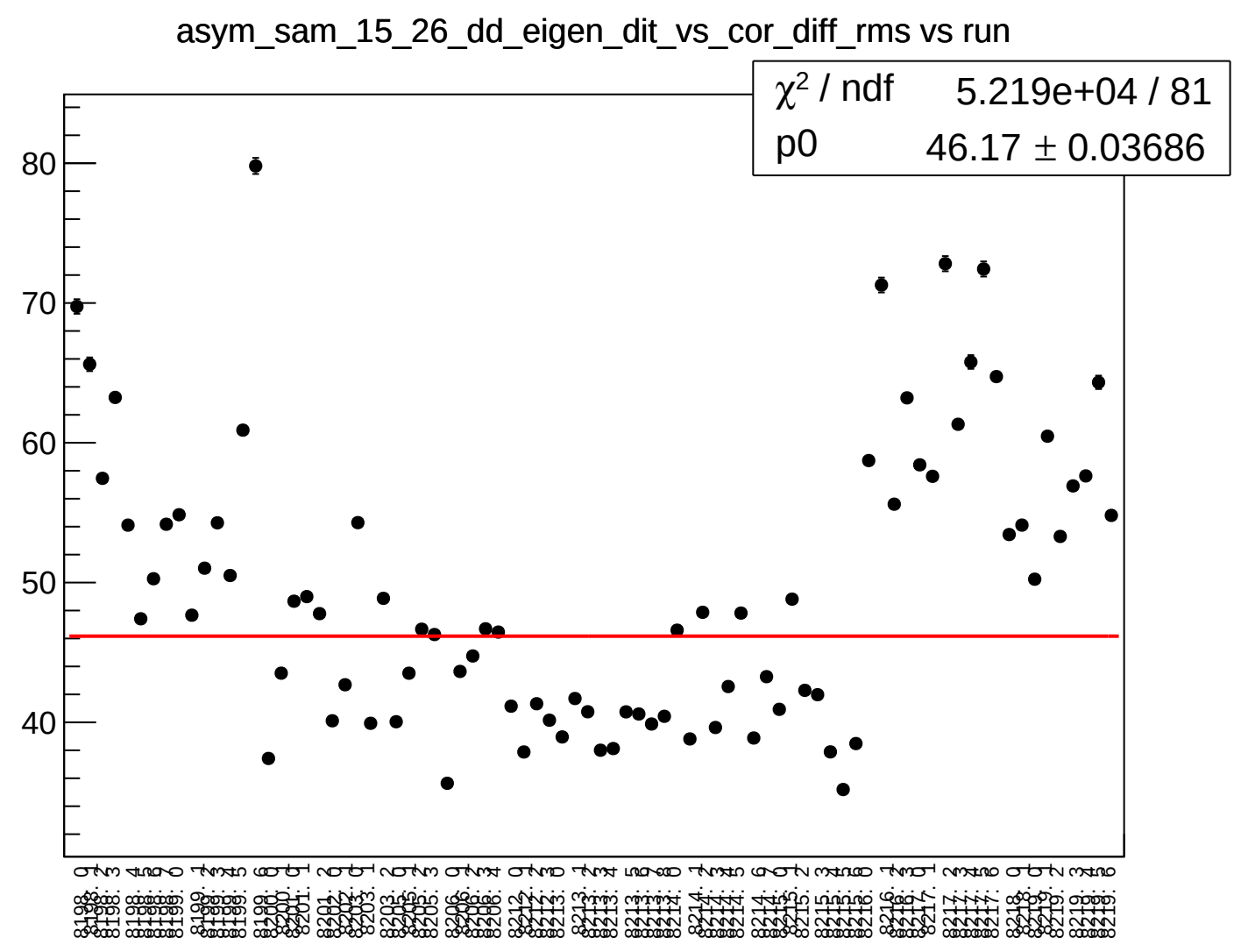

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.219e+04 / 81
p0 46.17 ± 0.03686
80
70
60
50
40

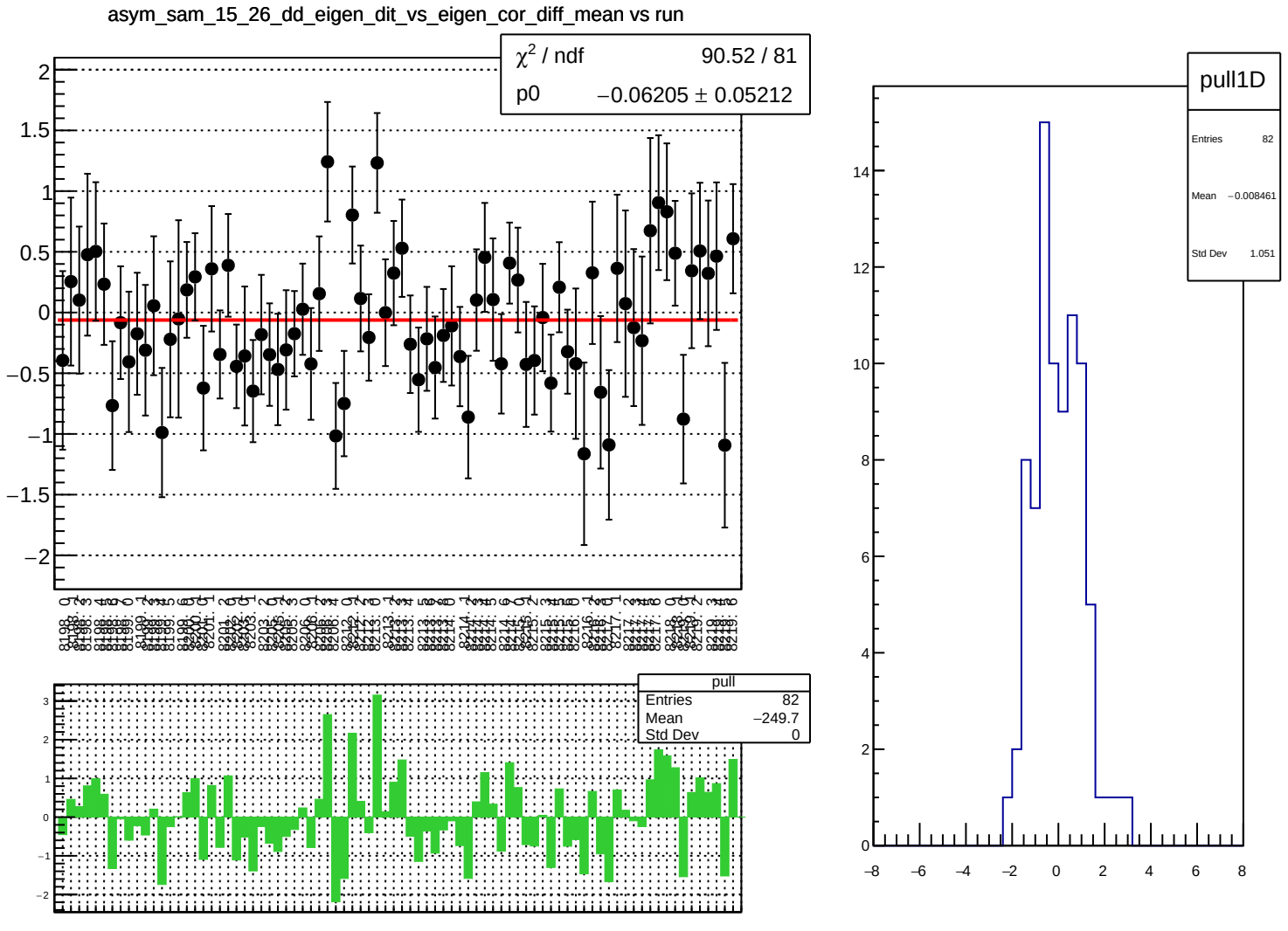

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.29 / 81
p0 8.62e−07 ± 1.932e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 82
Mean 92.19
Std Dev 9.647
3
2
1
0
−1
−2
−3

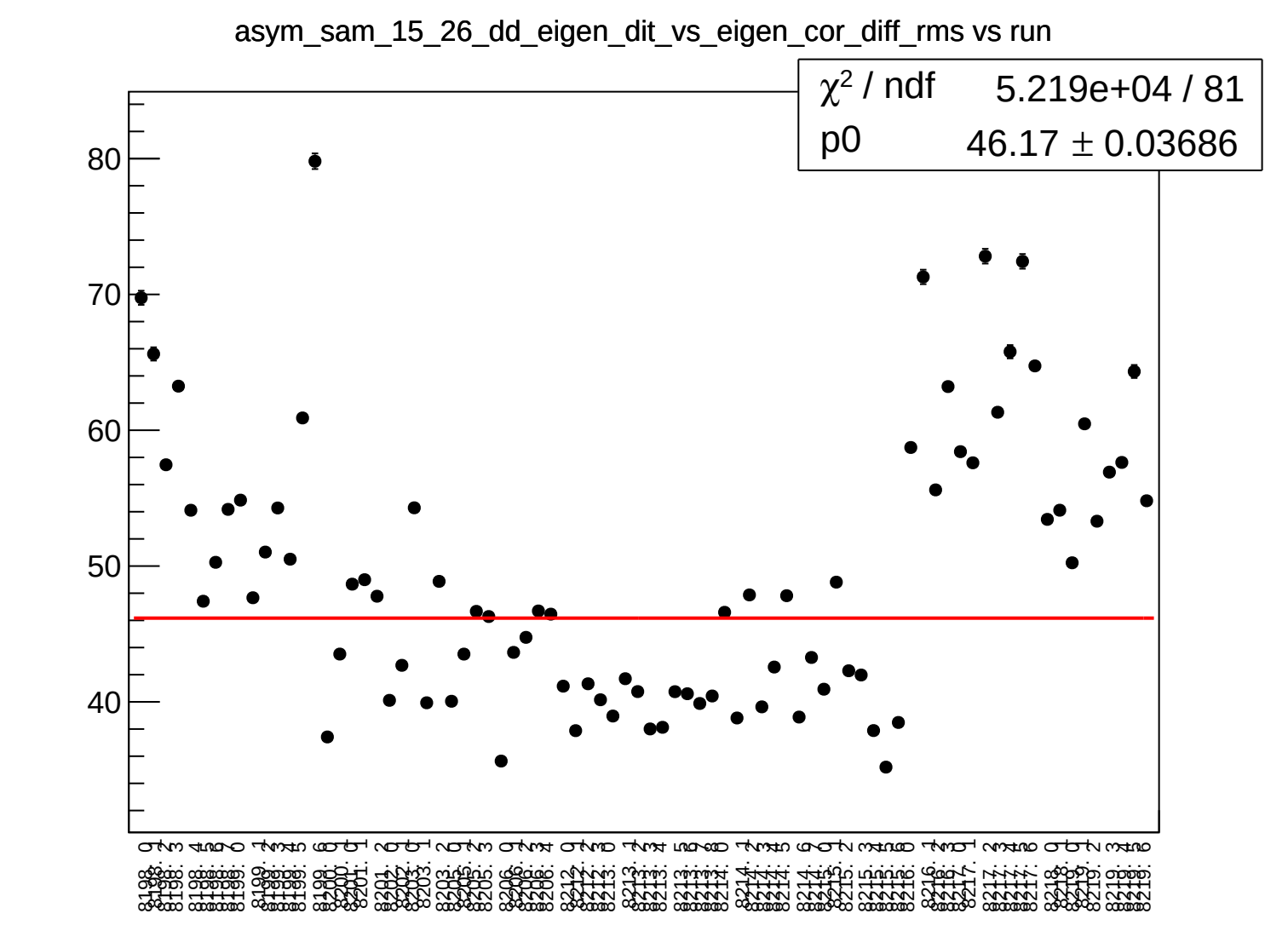

pull1D
Entries 82
Mean 0.027
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

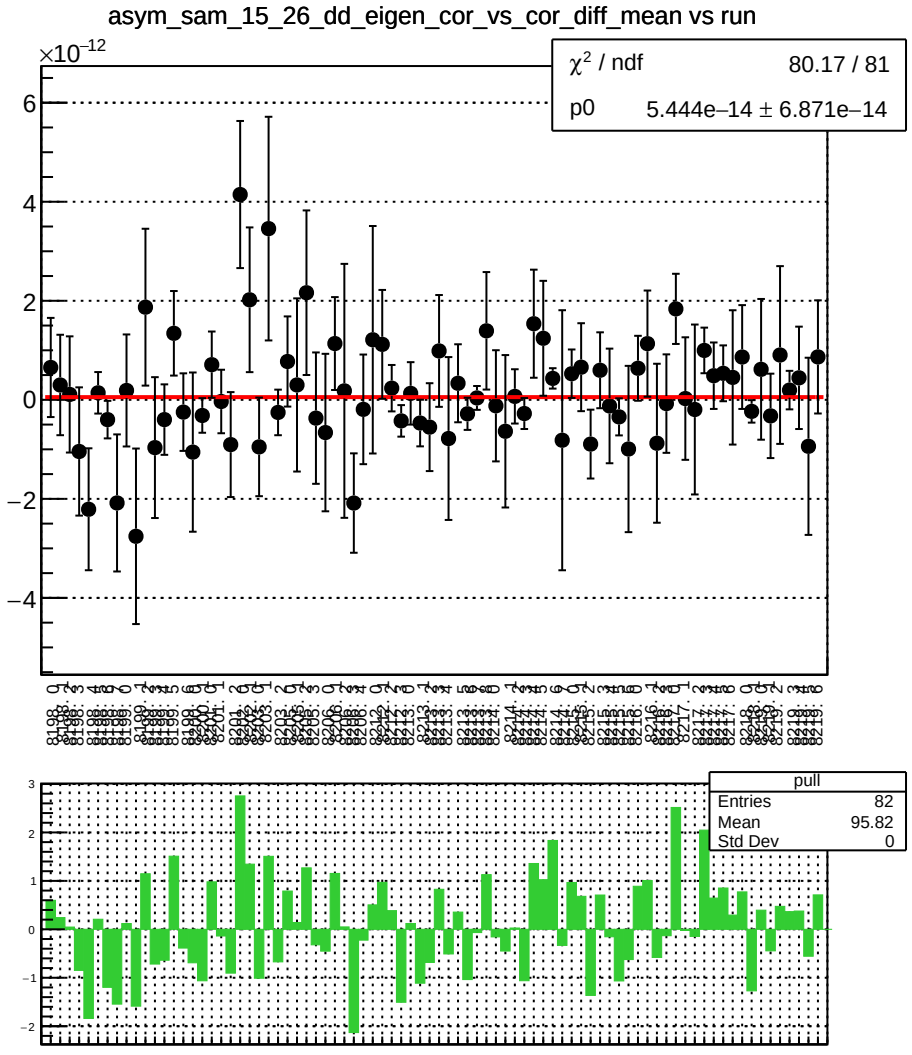

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.268e+05 / 81
p0 0.001614 ± 1.366e−06
0.003
0.0025
0.002
0.0015
0.001

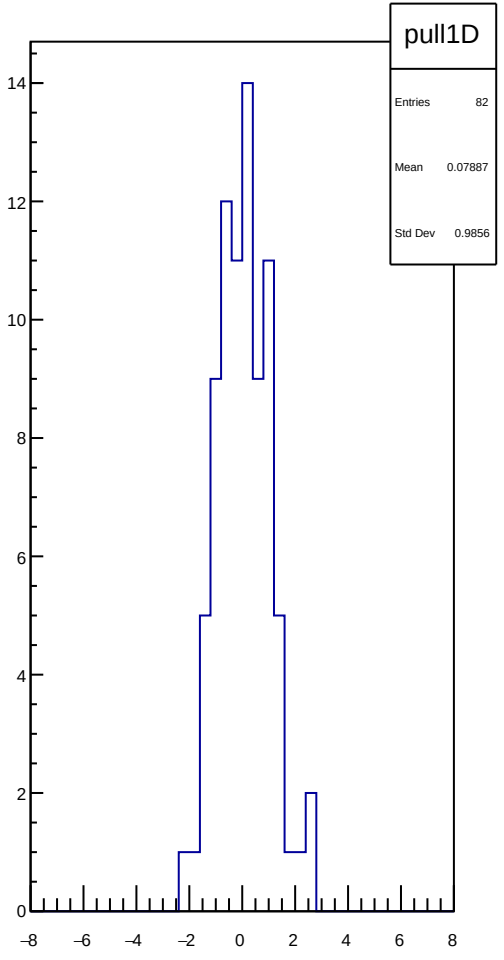

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.52 / 81
p0 −0.06205 ± 0.05212
pull
Entries 82
Mean −249.7
Std Dev 0
pull1D
Entries 82
Mean −0.008461
Std Dev 1.051

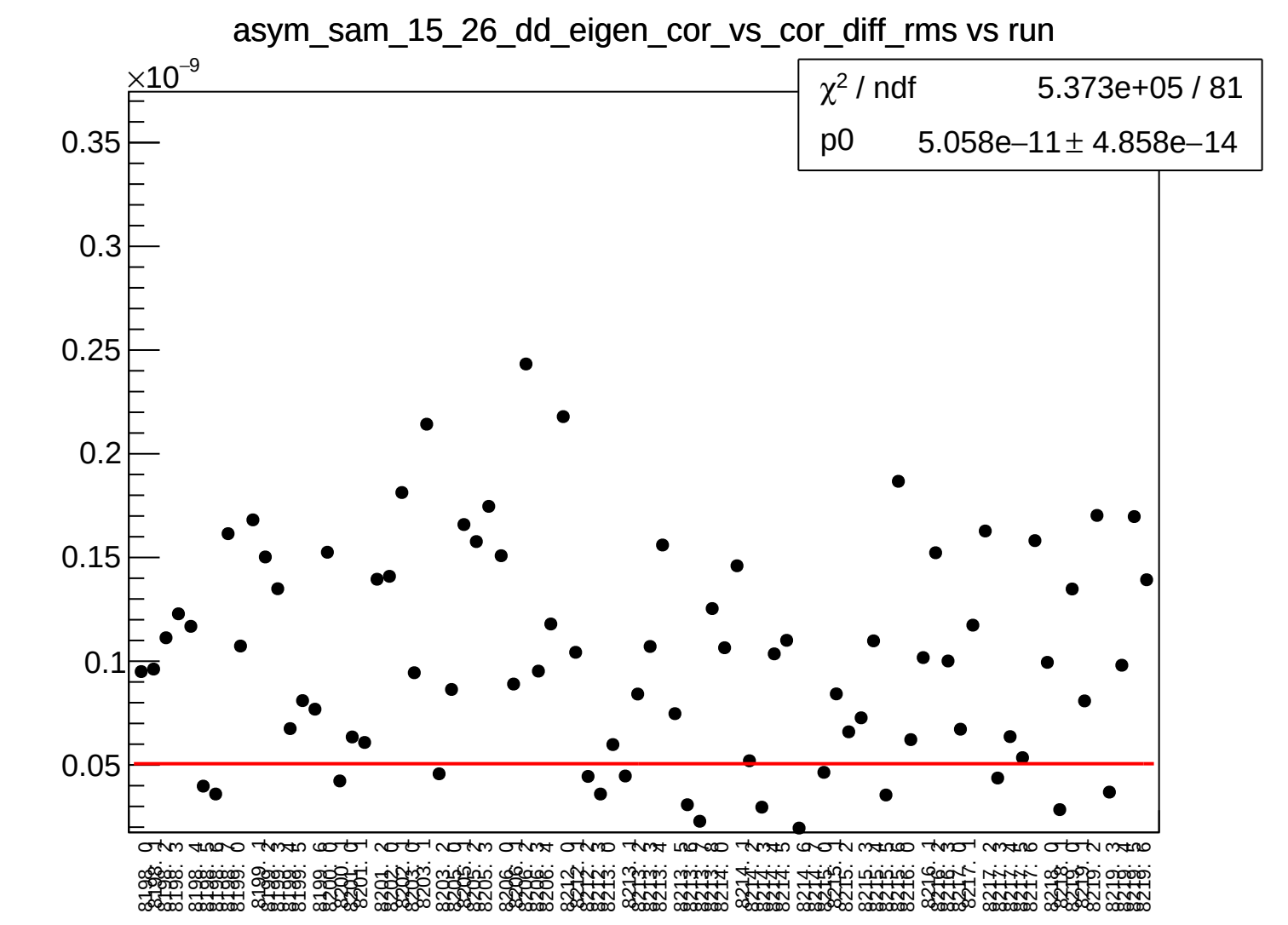

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.219e+04 / 81
p0 46.17 ± 0.03686
80
70
60
50
40

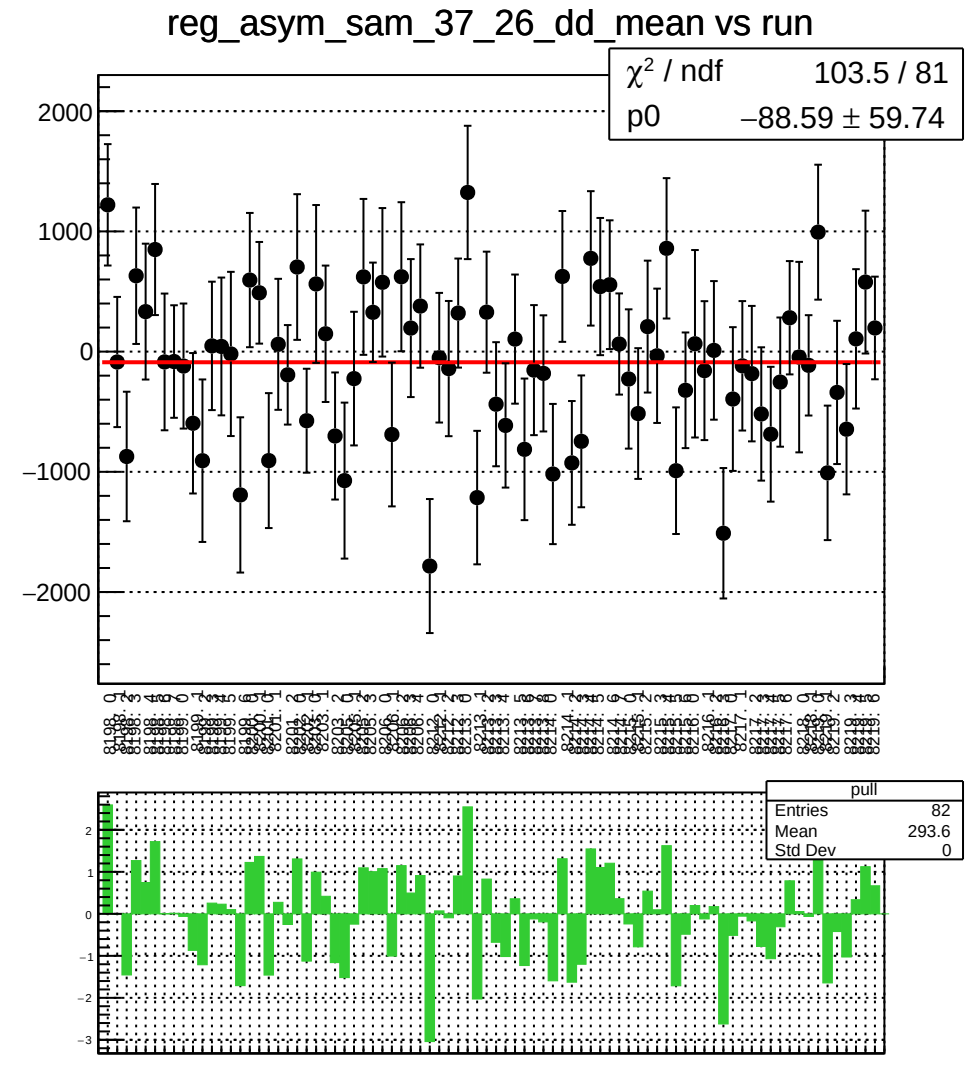

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.52 / 81
p0 −0.06205 ± 0.05212
pull
Entries 82
Mean −249.7
Std Dev 0
pull1D
Entries 82
Mean −0.008461
Std Dev 1.051

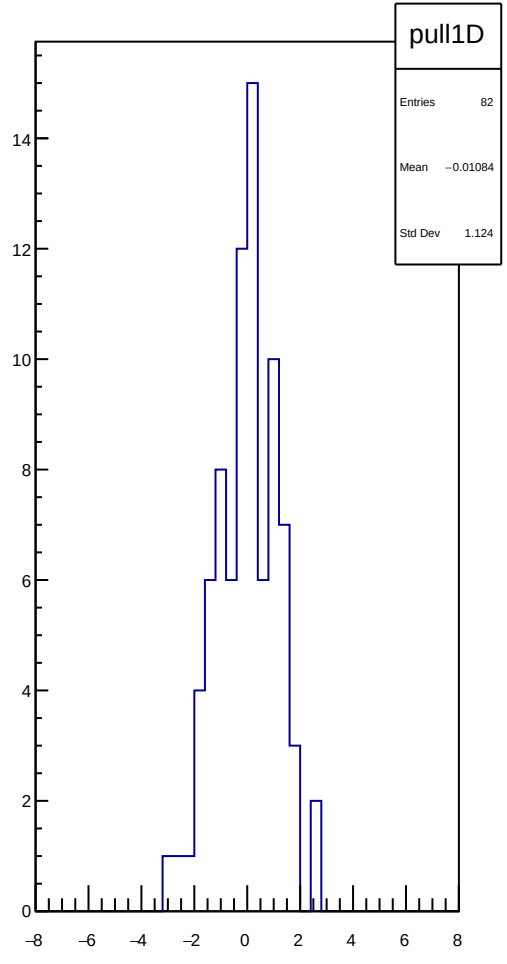

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.219e+04 / 81
p0 46.17 ± 0.03686
80
70
60
50
40

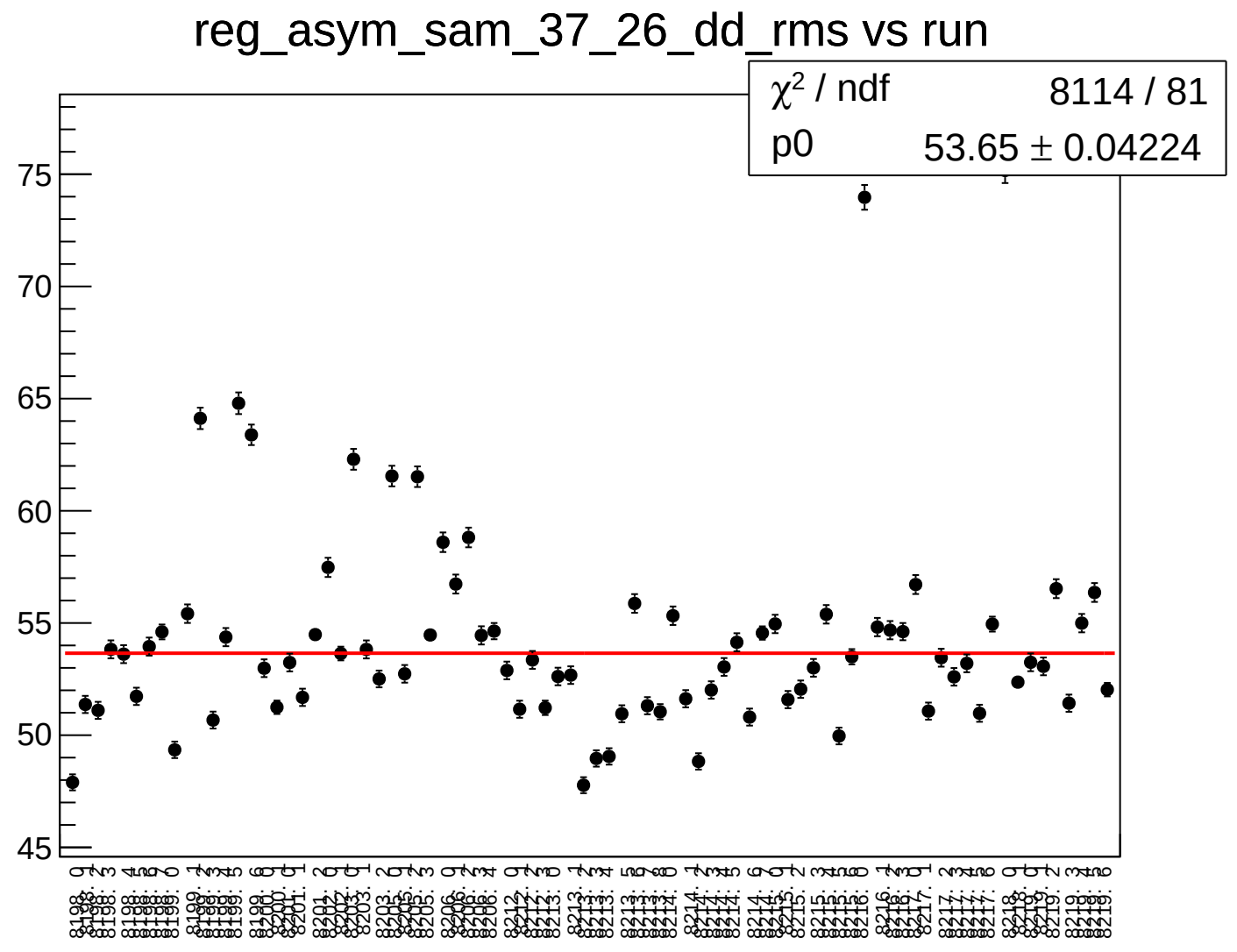

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.17 / 81
p0 5.444e−14 ± 6.871e−14
pull
Entries 82
Mean 95.82
Std Dev 0

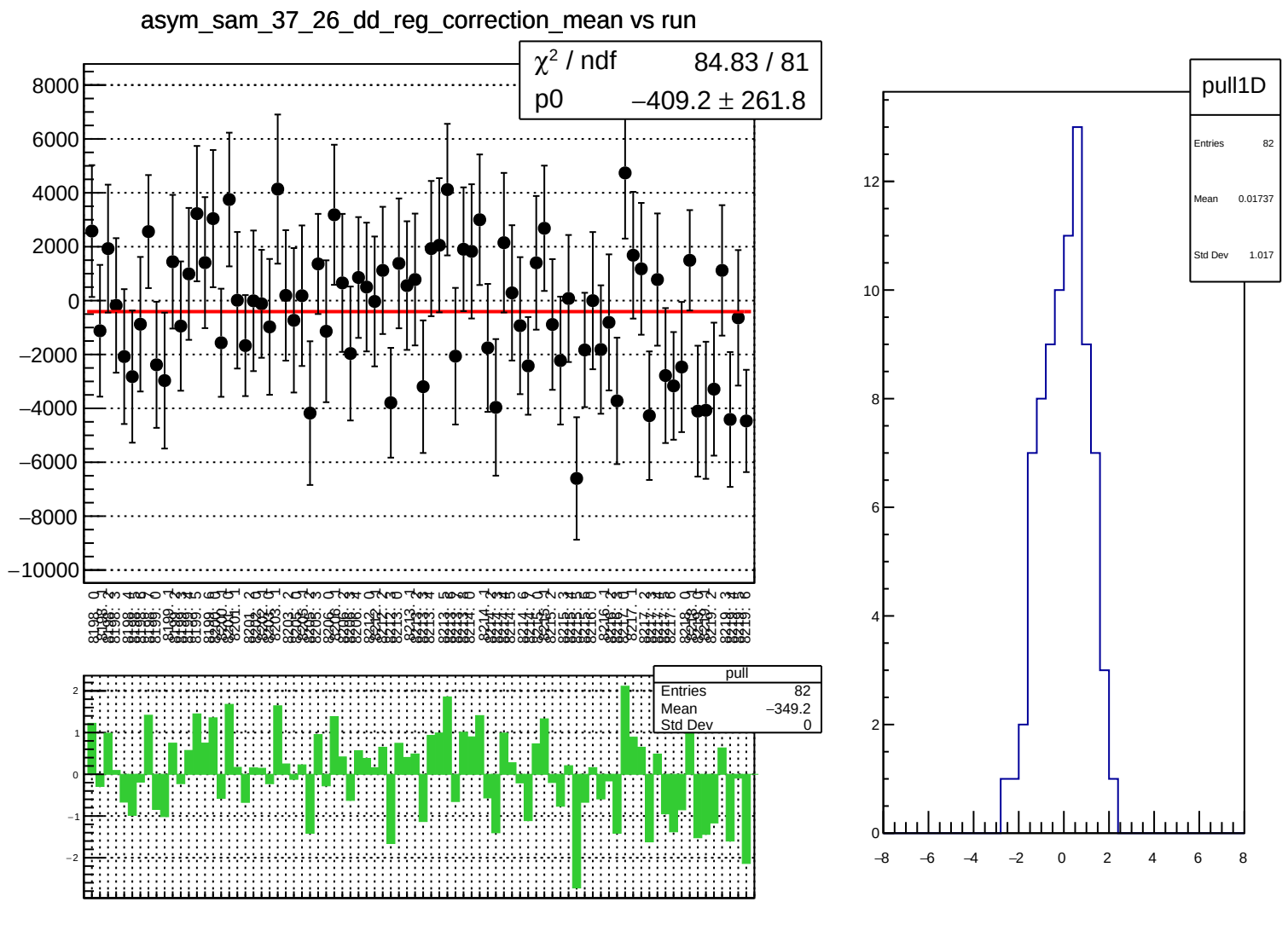

pull1D
Entries 82
Mean 0.07887
Std Dev 0.9856

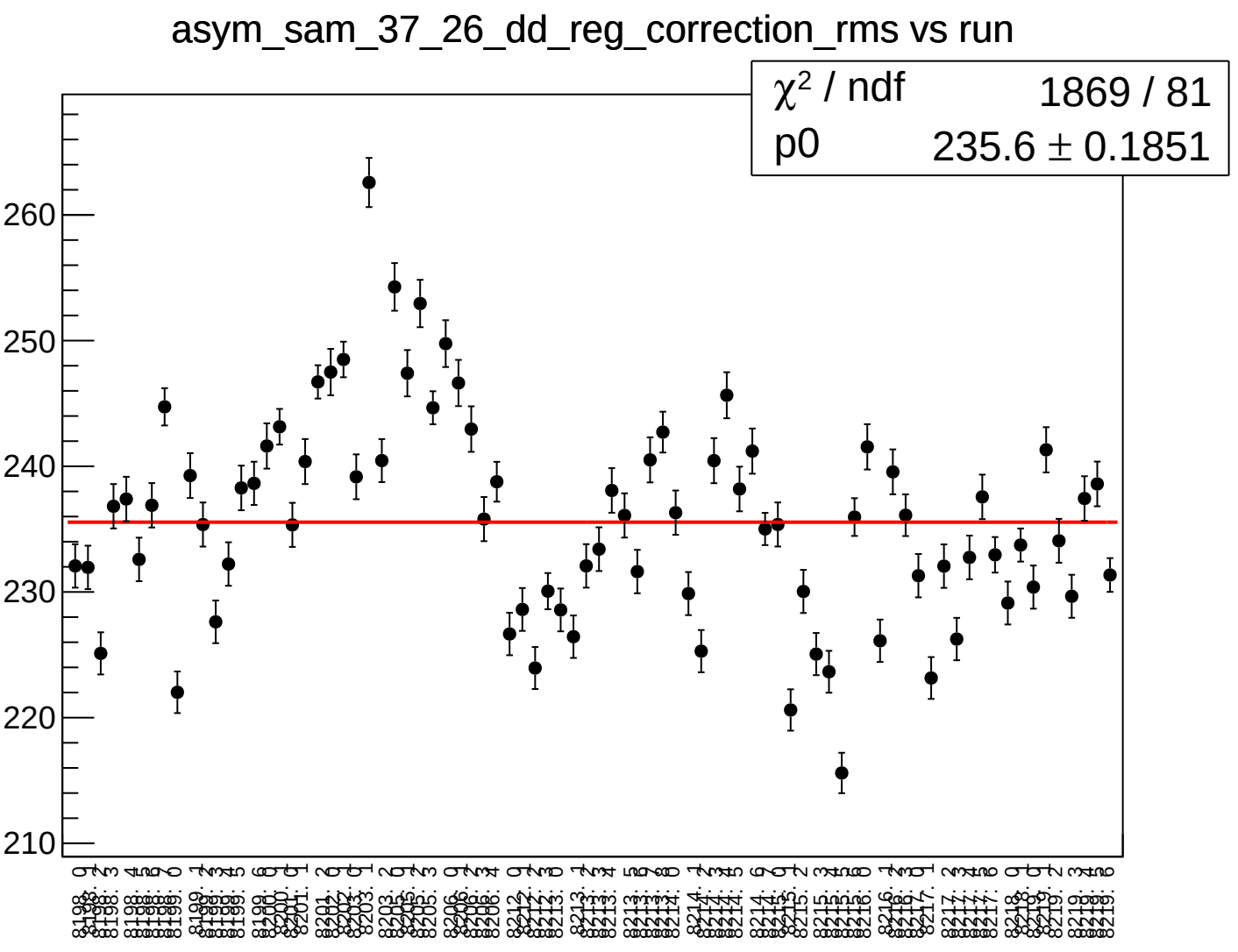

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.373e+05 / 81
p0 5.058e−11 ± 4.858e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

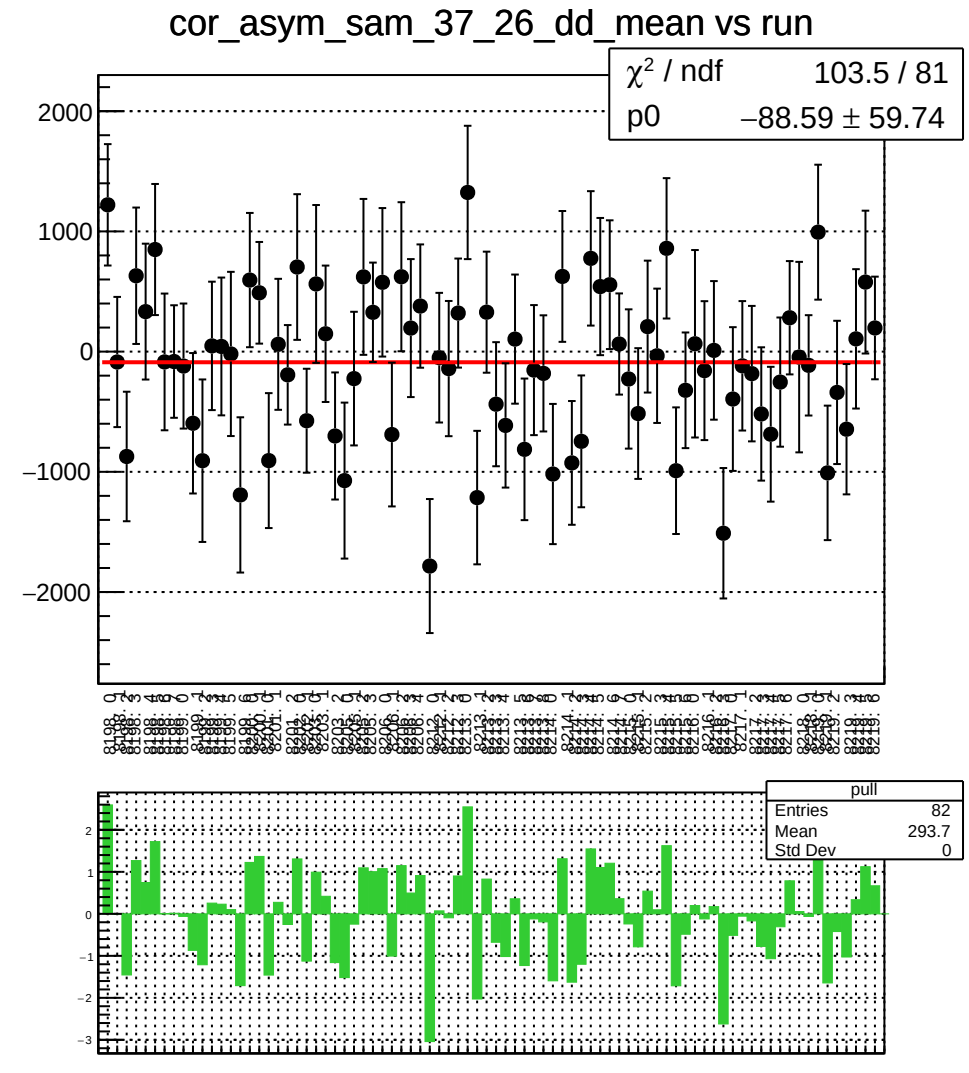

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 103.5 / 81
p0 −88.59 ± 59.74
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 293.6
Std Dev 0
2
1
0
−1
−2
−3

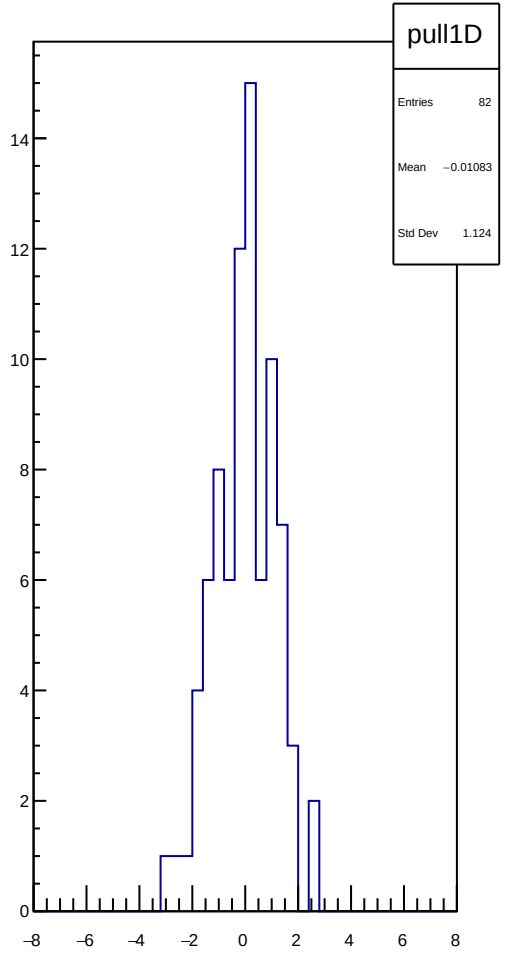

pull1D
Entries 82
Mean −0.01084
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

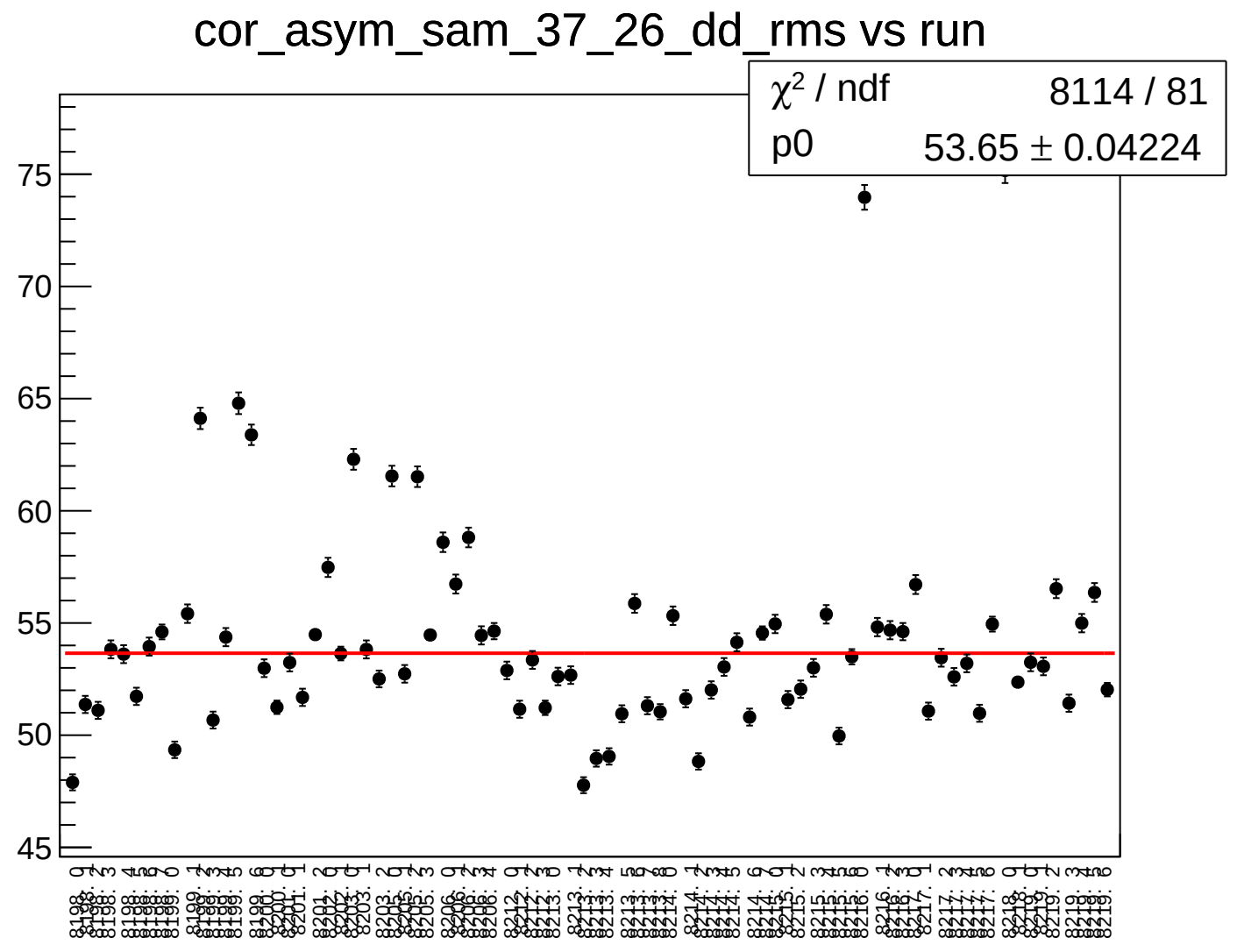

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 8114 / 81
p0 53.65 ± 0.04224
75
70
65
60
55
50
45

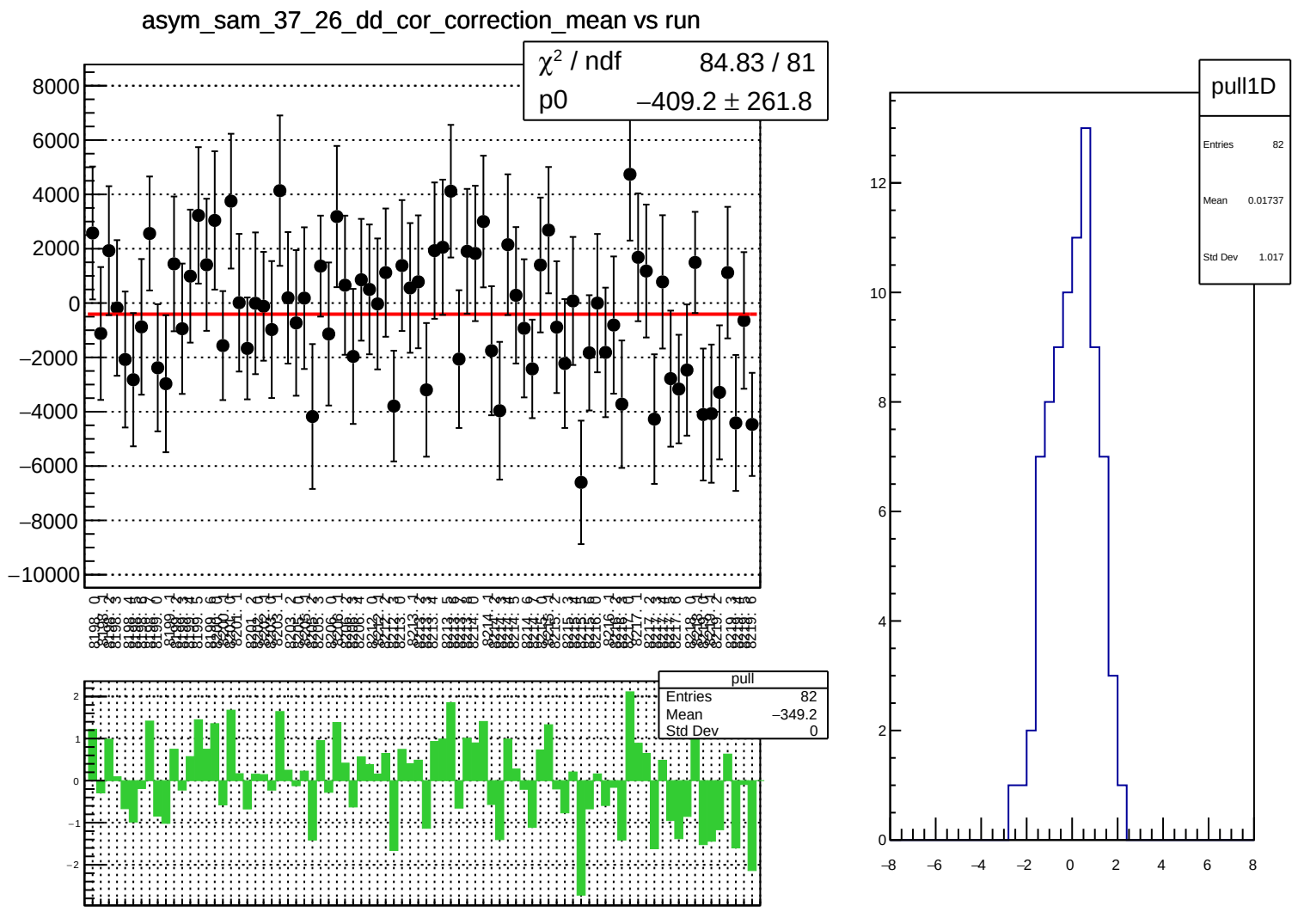

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 84.83 / 81
p0 −409.2 ± 261.8
pull
Entries 82
Mean −349.2
Std Dev 0
pull1D
Entries 82
Mean 0.01737
Std Dev 1.017

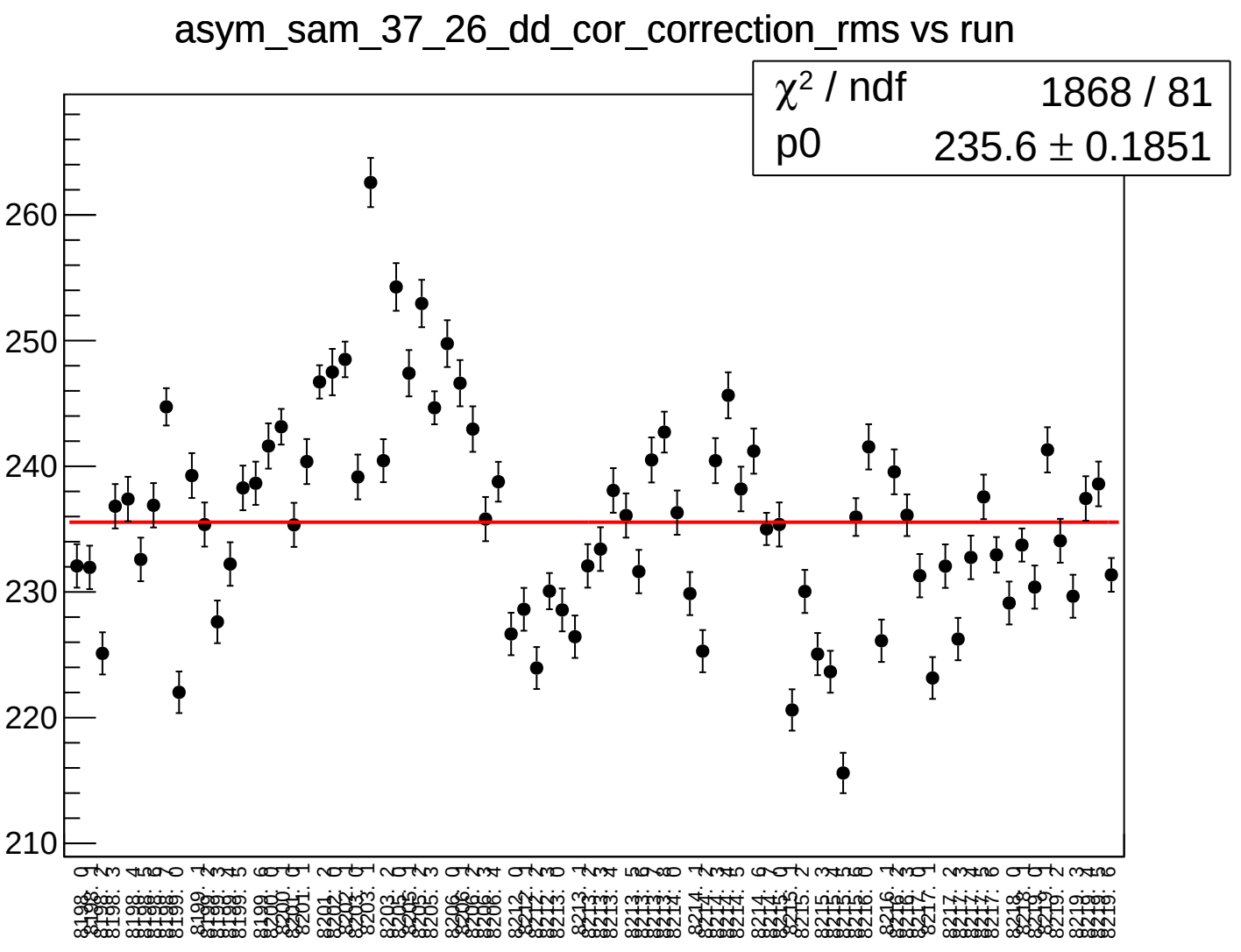

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1869 / 81
p0 235.6 ± 0.1851
260
250
240
230
220
210

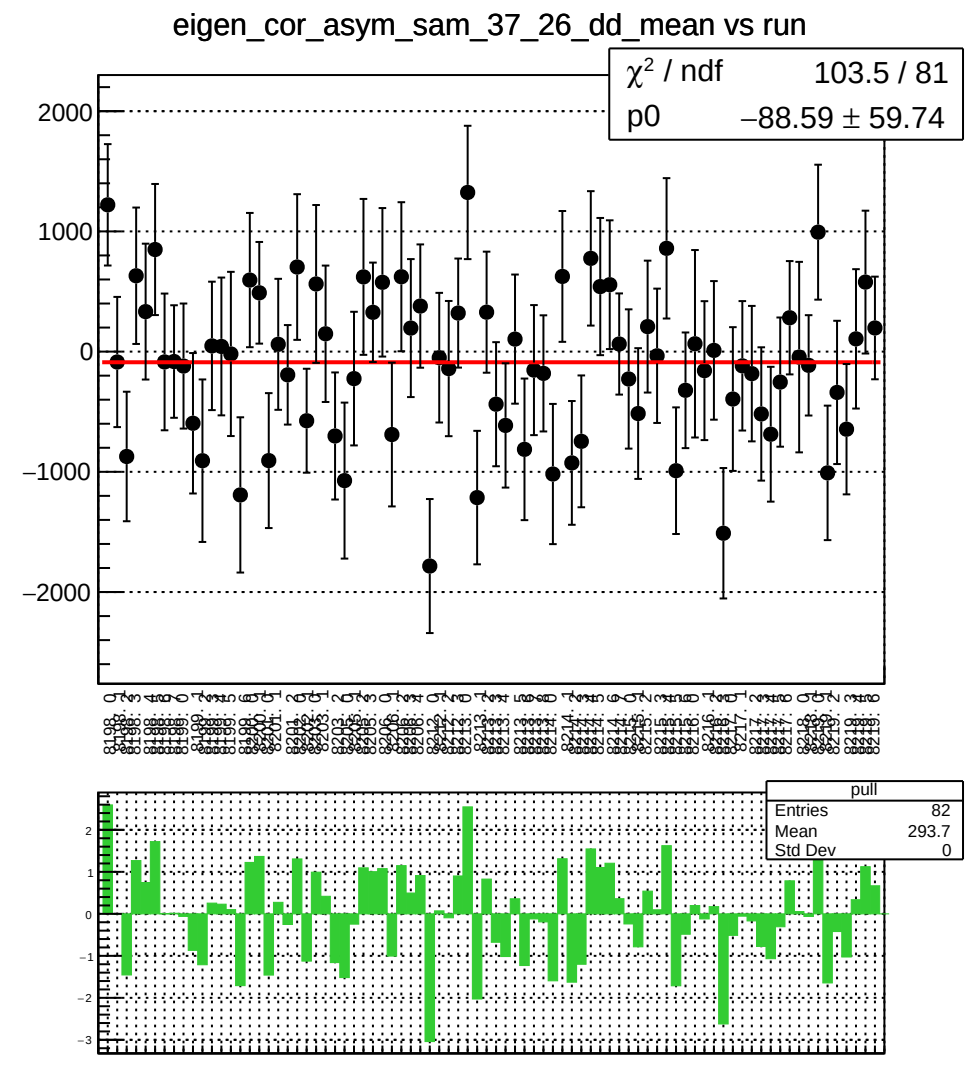

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 103.5 / 81
p0 −88.59 ± 59.74
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 293.7
Std Dev 0
2
1
0
−1
−2
−3

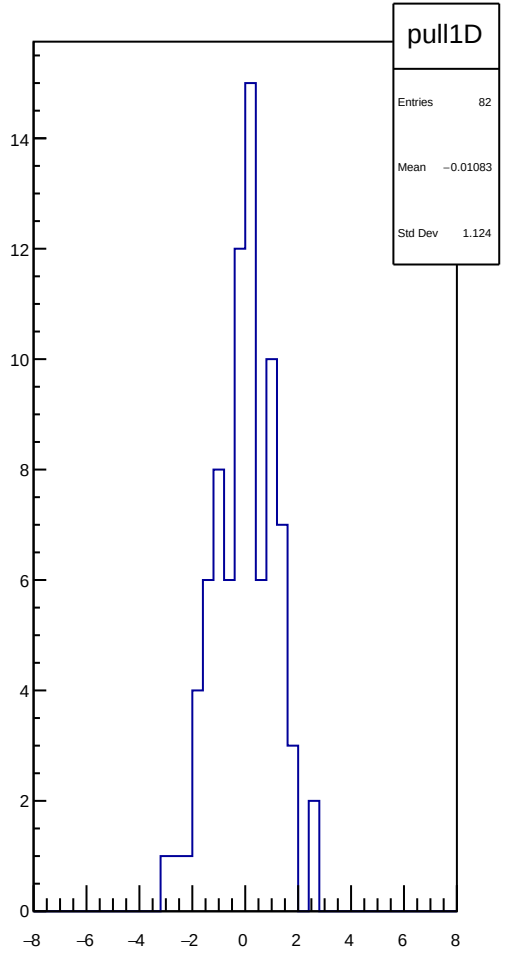

pull1D
Entries 82
Mean −0.01083
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

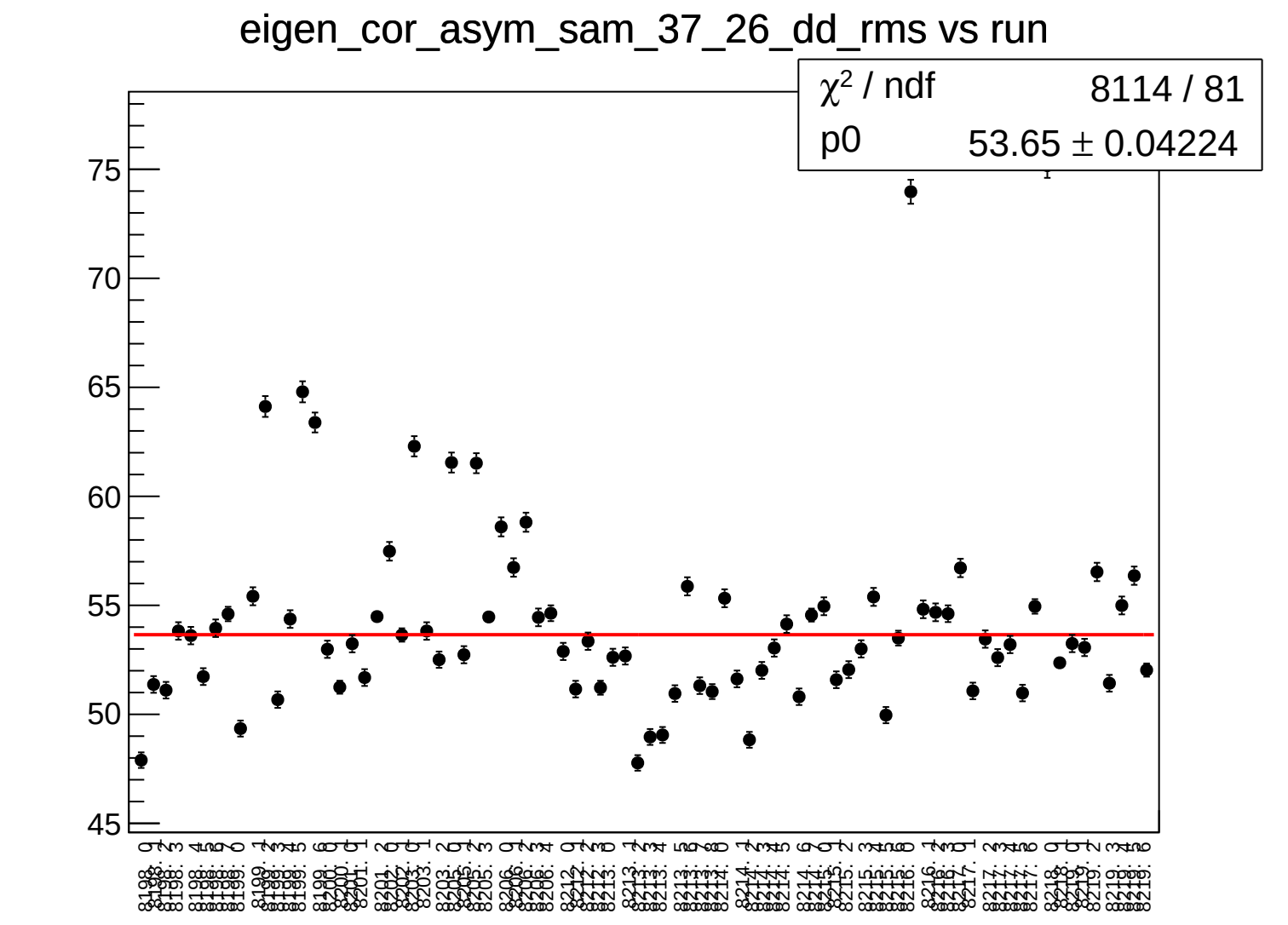

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 8114 / 81
p0 53.65 ± 0.04224
75
70
65
60
55
50
45

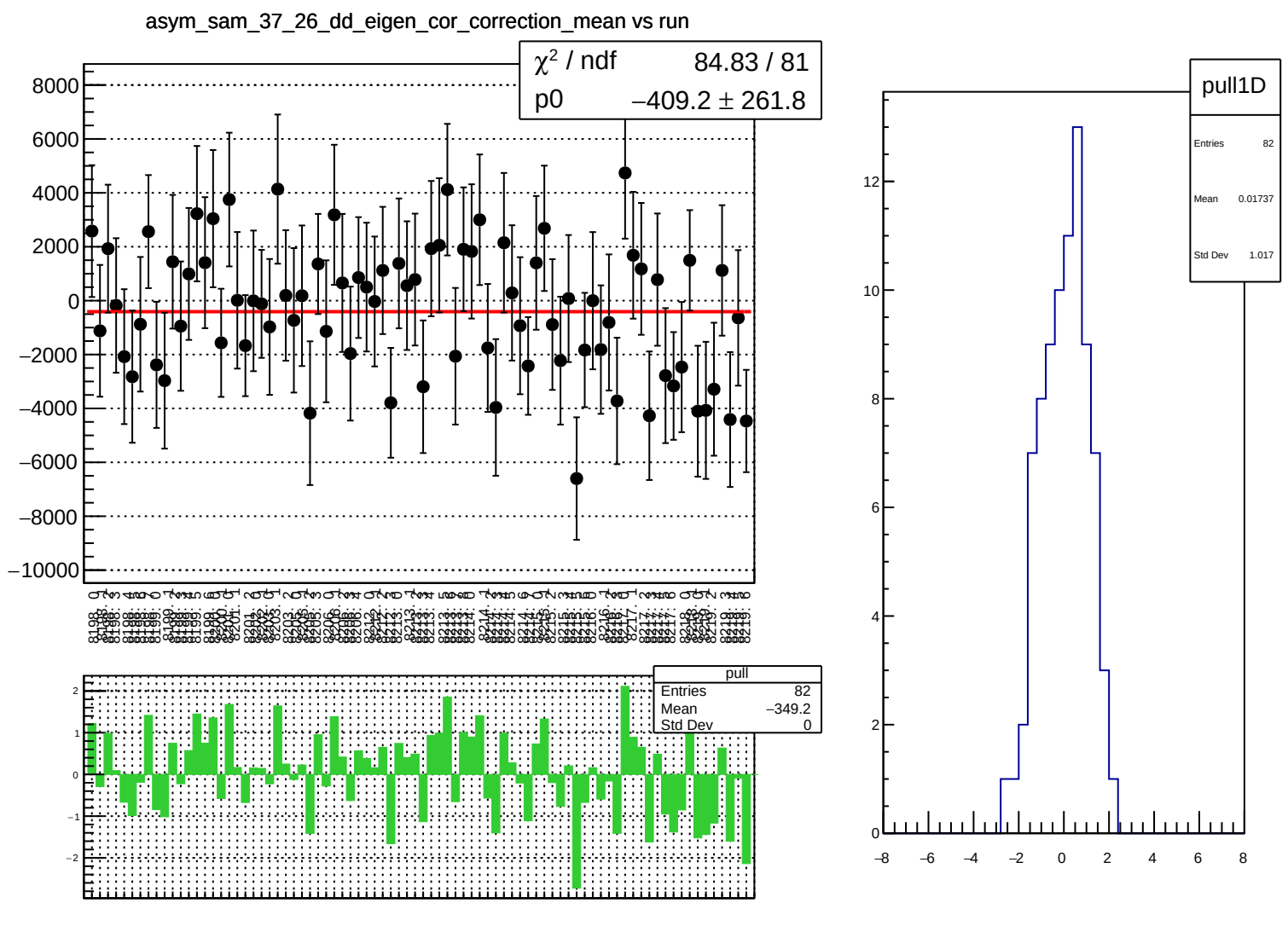

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 84.83 / 81
p0 −409.2 ± 261.8
pull
Entries 82
Mean −349.2
Std Dev 0
pull1D
Entries 82
Mean 0.01737
Std Dev 1.017

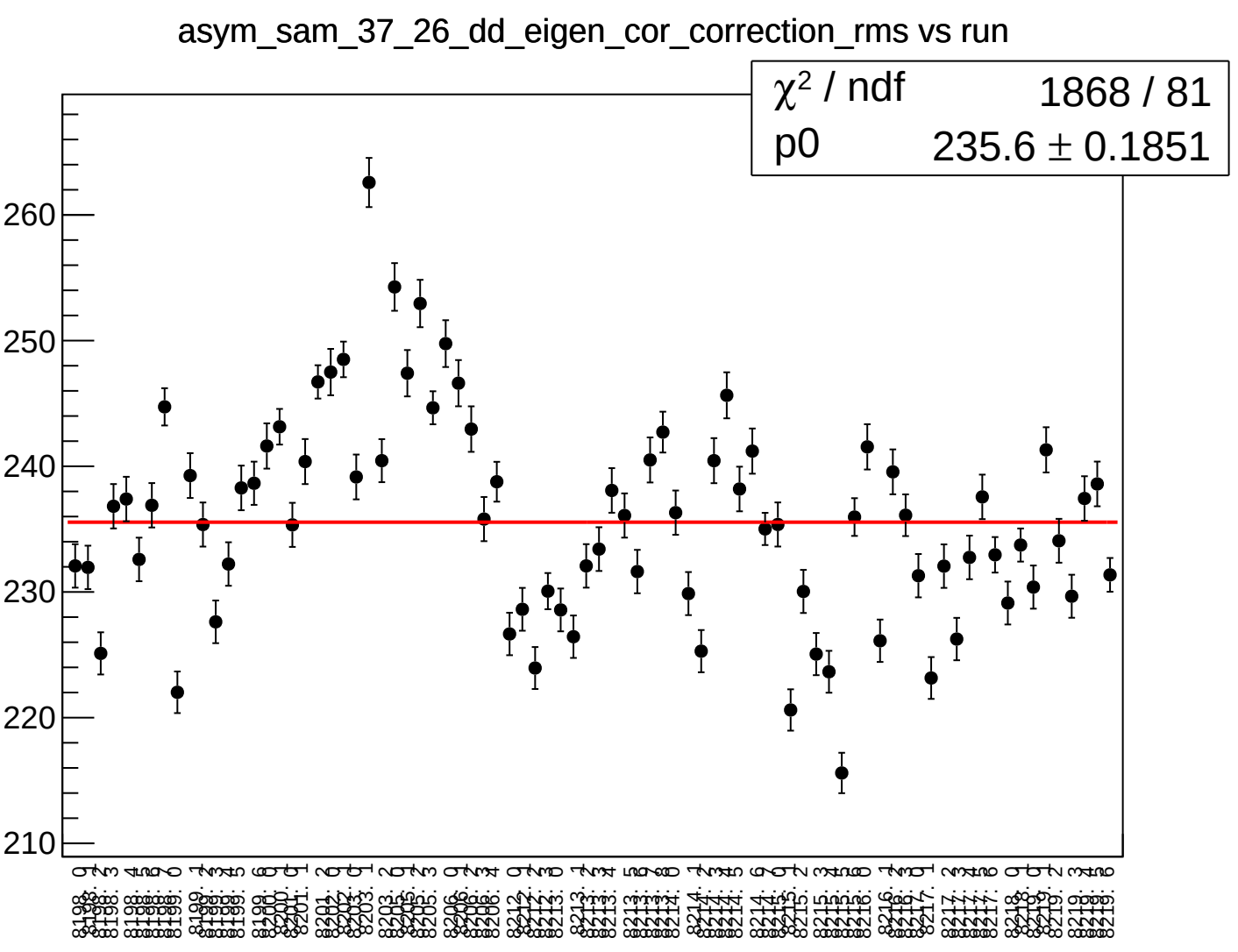

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 1868 / 81
p0 235.6 ± 0.1851
260
250
240
230
220
210

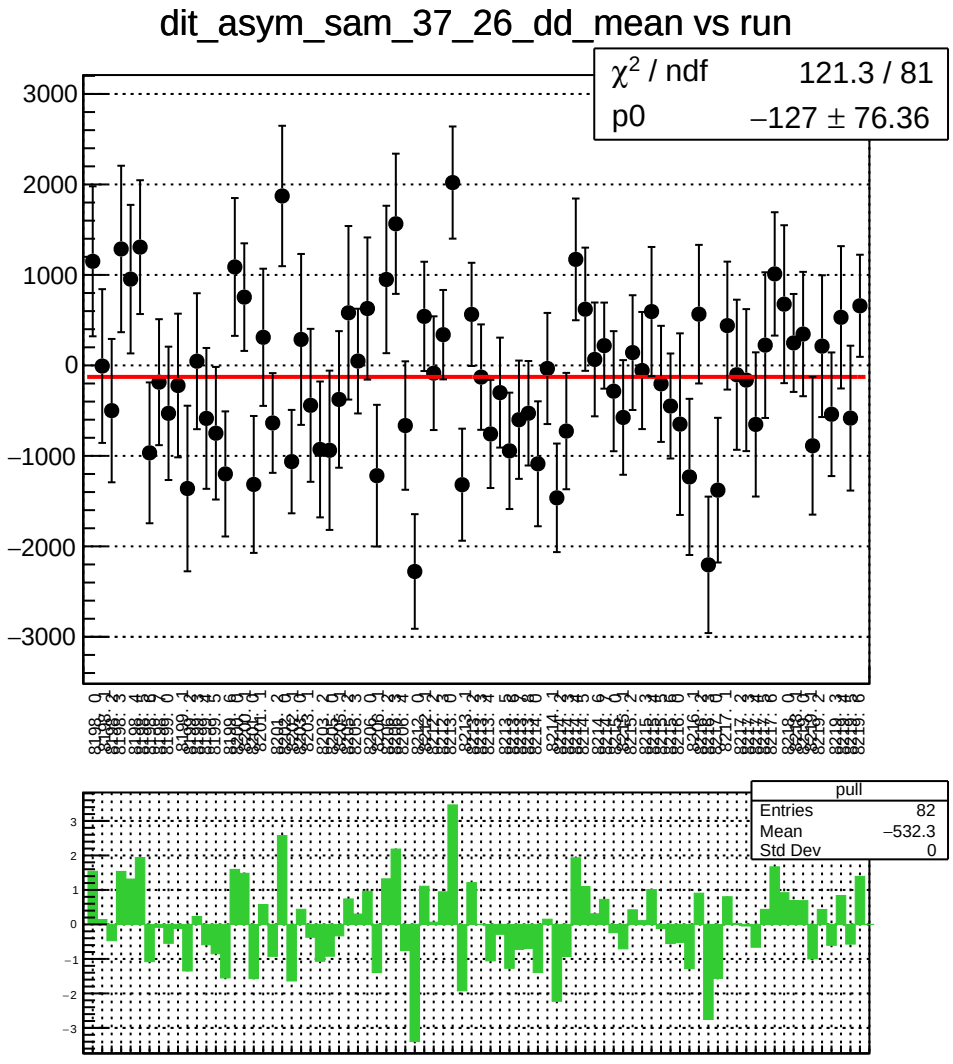

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 103.5 / 81
p0 −88.59 ± 59.74
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 293.7
Std Dev 0
2
1
0
−1
−2
−3

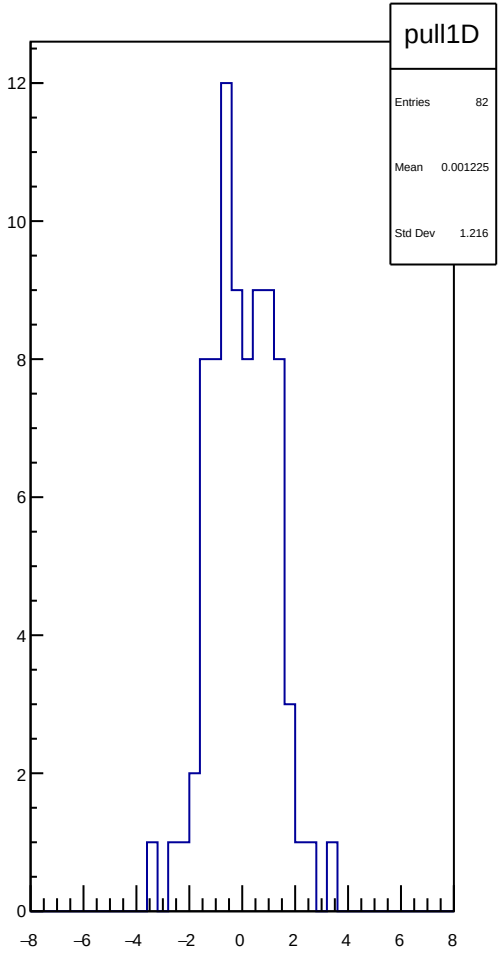

pull1D
Entries 82
Mean −0.01083
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

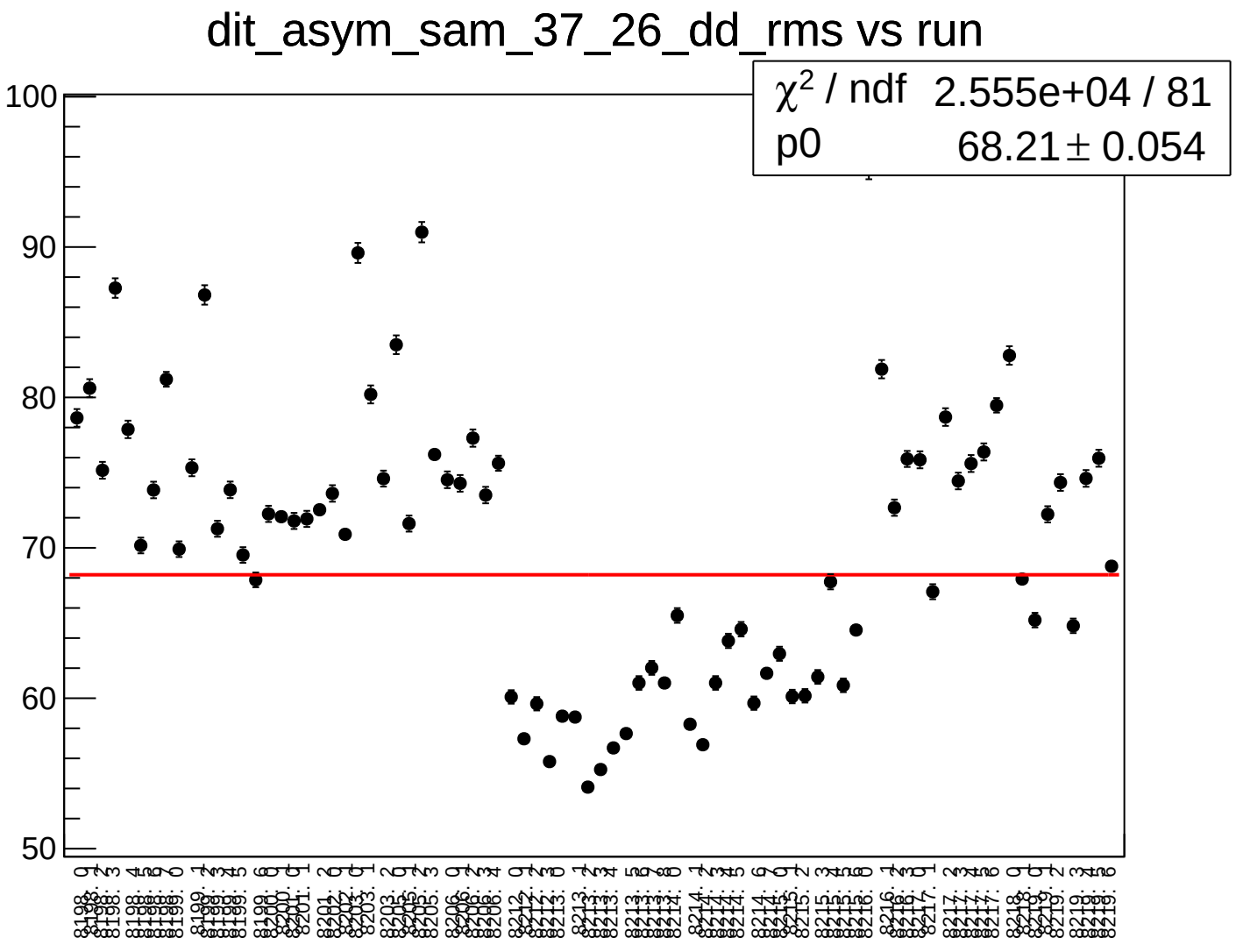

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 8114 / 81
p0 53.65 ± 0.04224
75
70
65
60
55
50
45

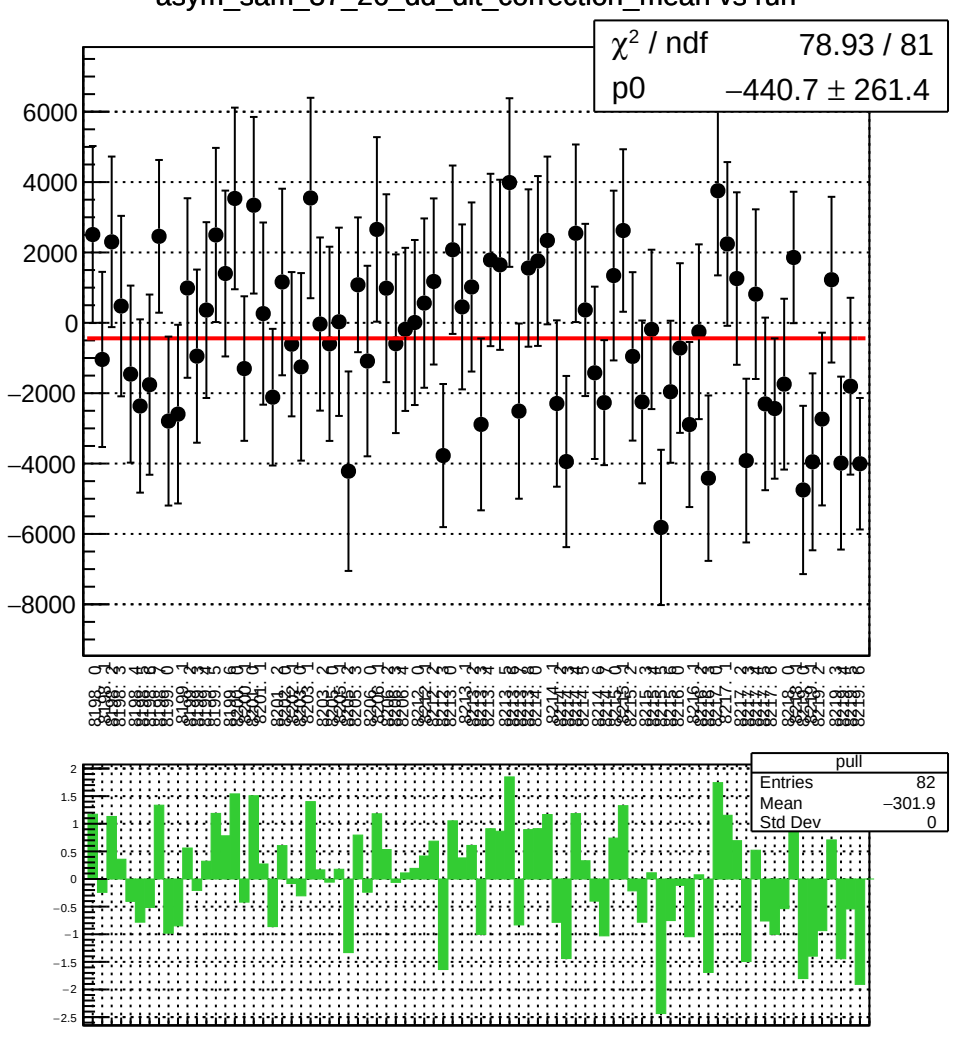

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.83 / 81
p0 −409.2 ± 261.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 82
Mean −349.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.01737
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

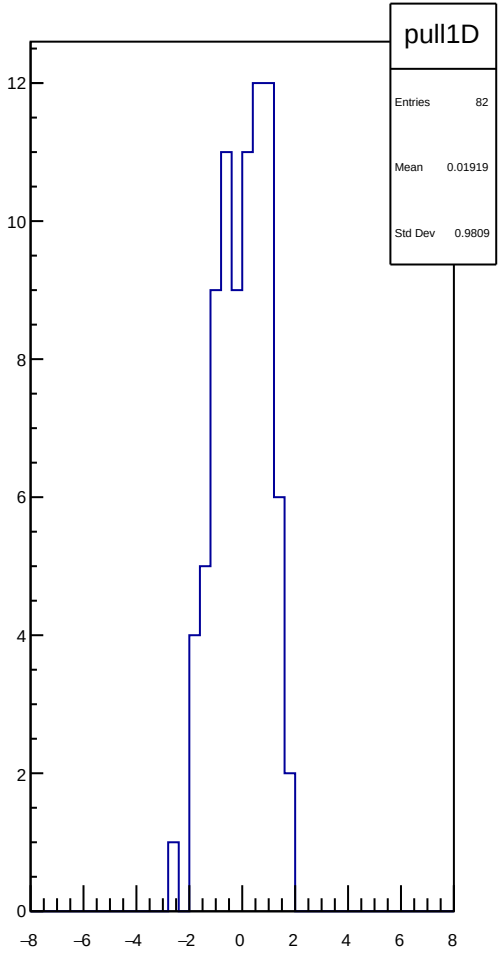

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1868 / 81
p0 235.6 ± 0.1851
260
250
240
230
220
210

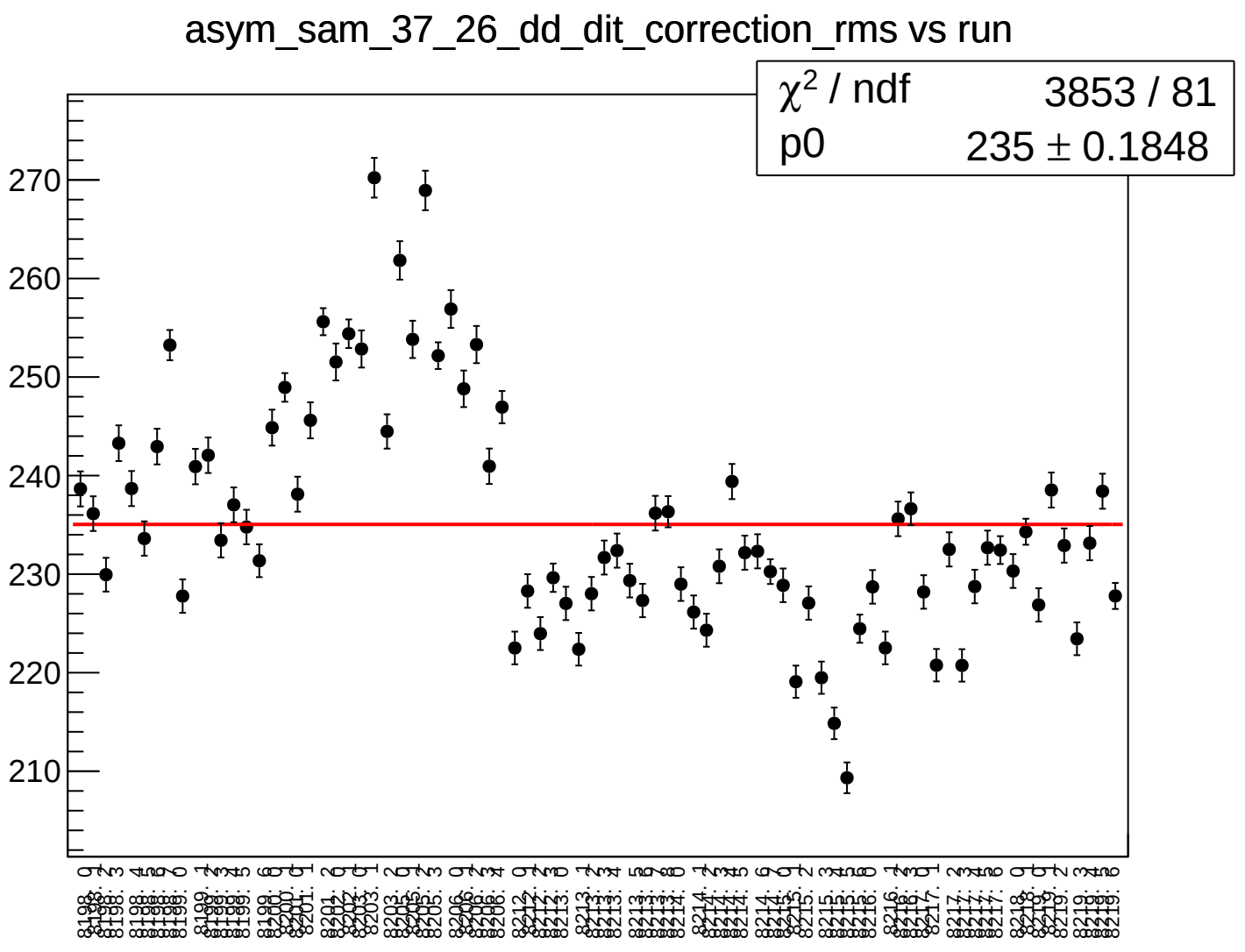

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 121.3 / 81
p0 −127 ± 76.36
pull
Entries 82
Mean −532.3
Std Dev 0

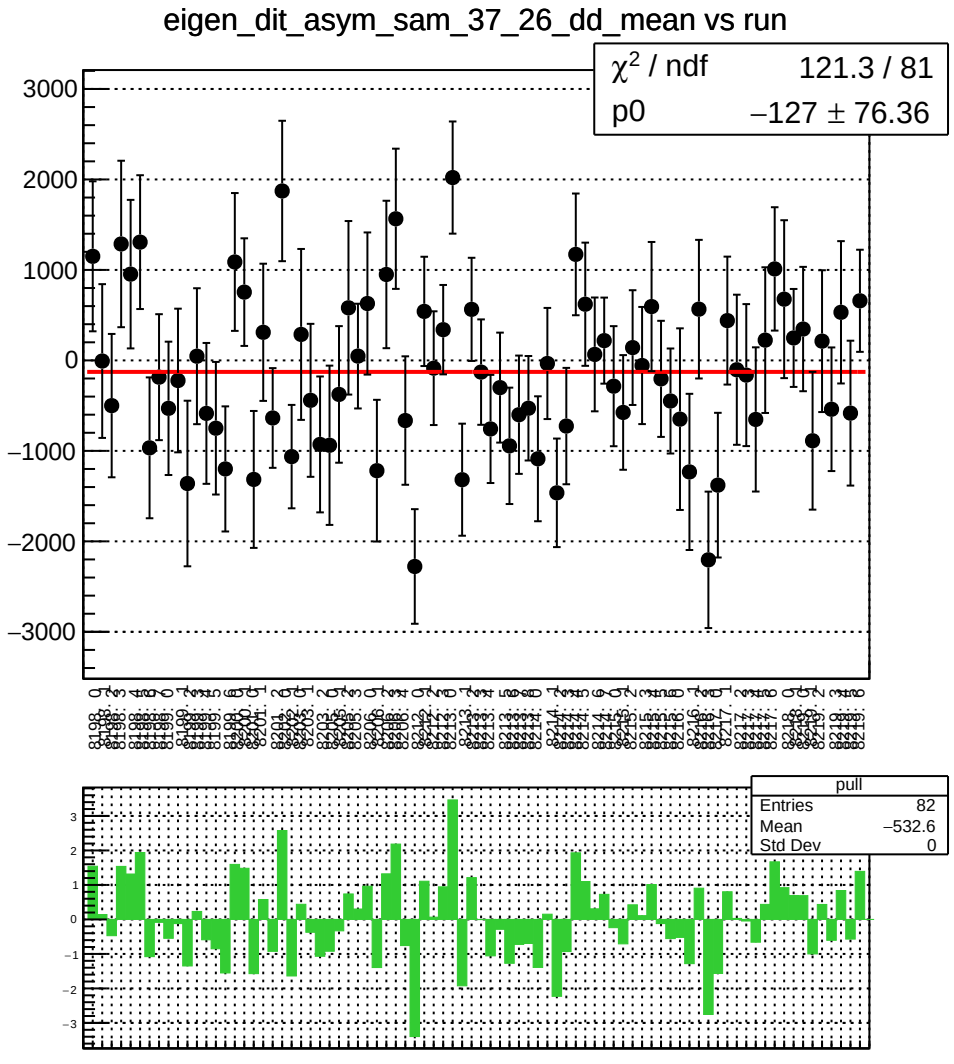

pull1D
Entries 82
Mean 0.001225
Std Dev 1.216

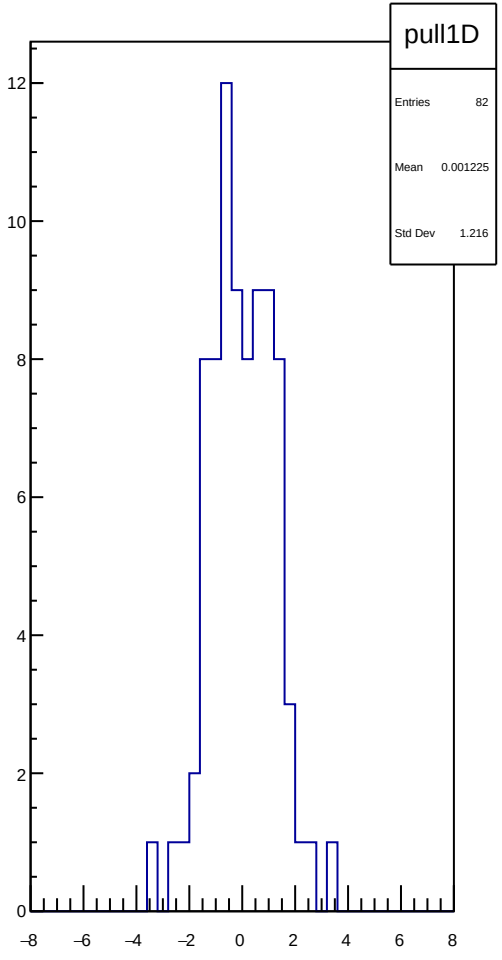

dit_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 2.555e+04 / 81
p0 68.21 ± 0.054
100
90
80
70
60
50

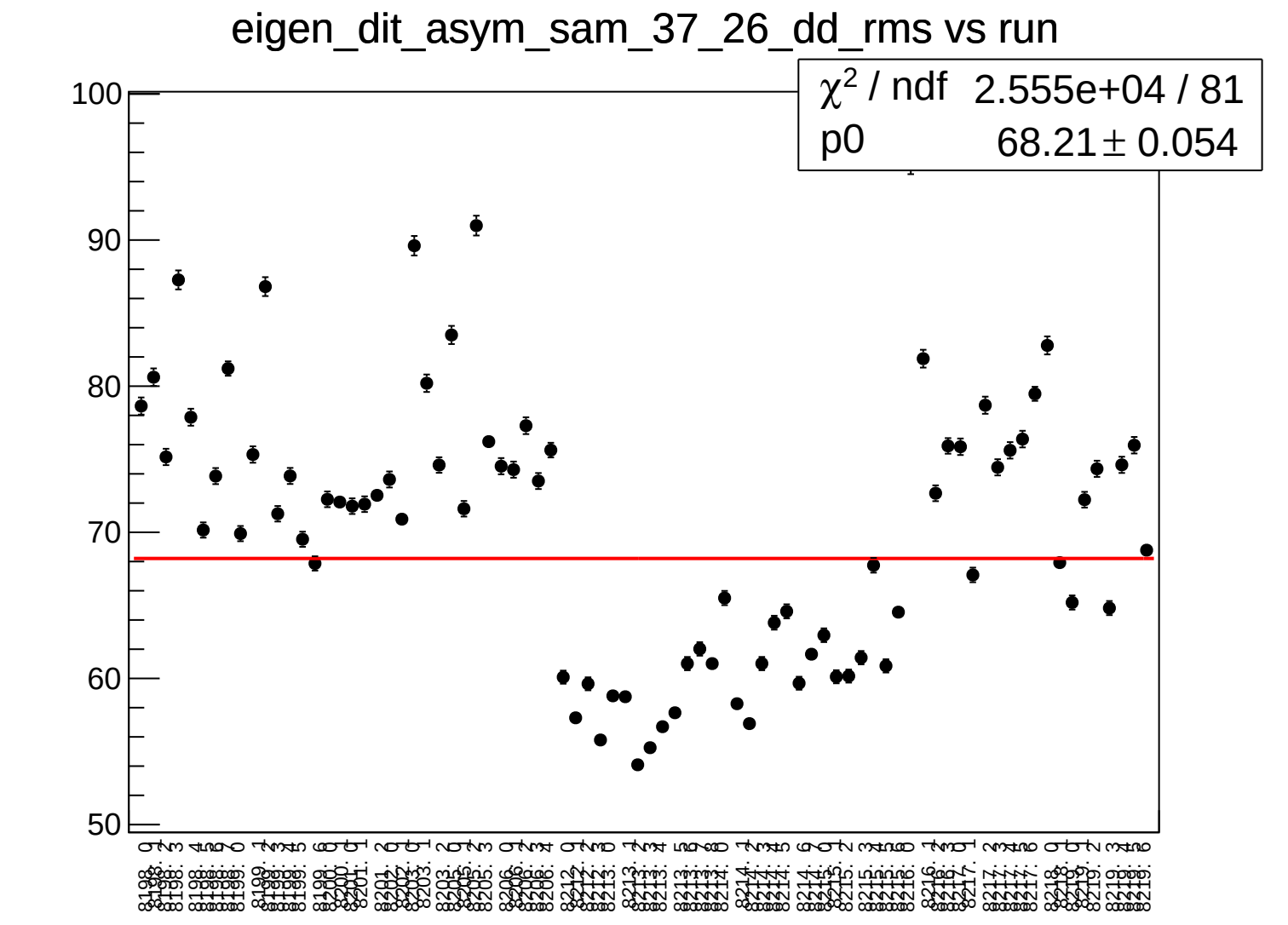

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 78.93 / 81
p0 −440.7 ± 261.4
pull
Entries 82
Mean −301.9
Std Dev 0

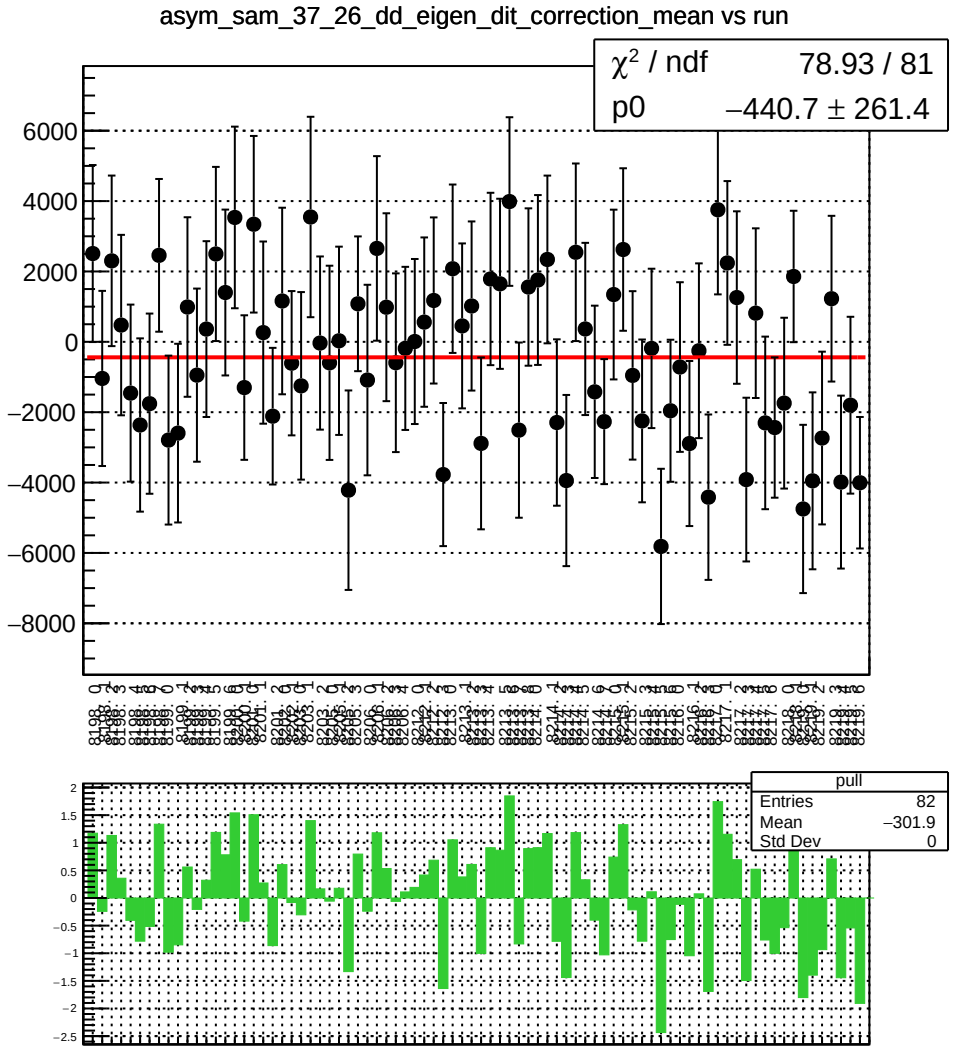

pull1D
Entries 82
Mean 0.01919
Std Dev 0.9809

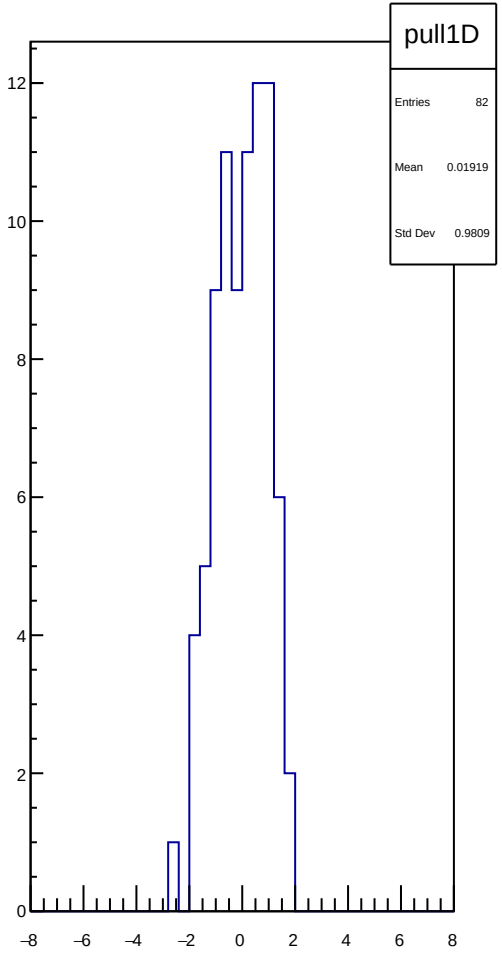

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 3853 / 81
p0 235 ± 0.1848
270
260
250
240
230
220
210

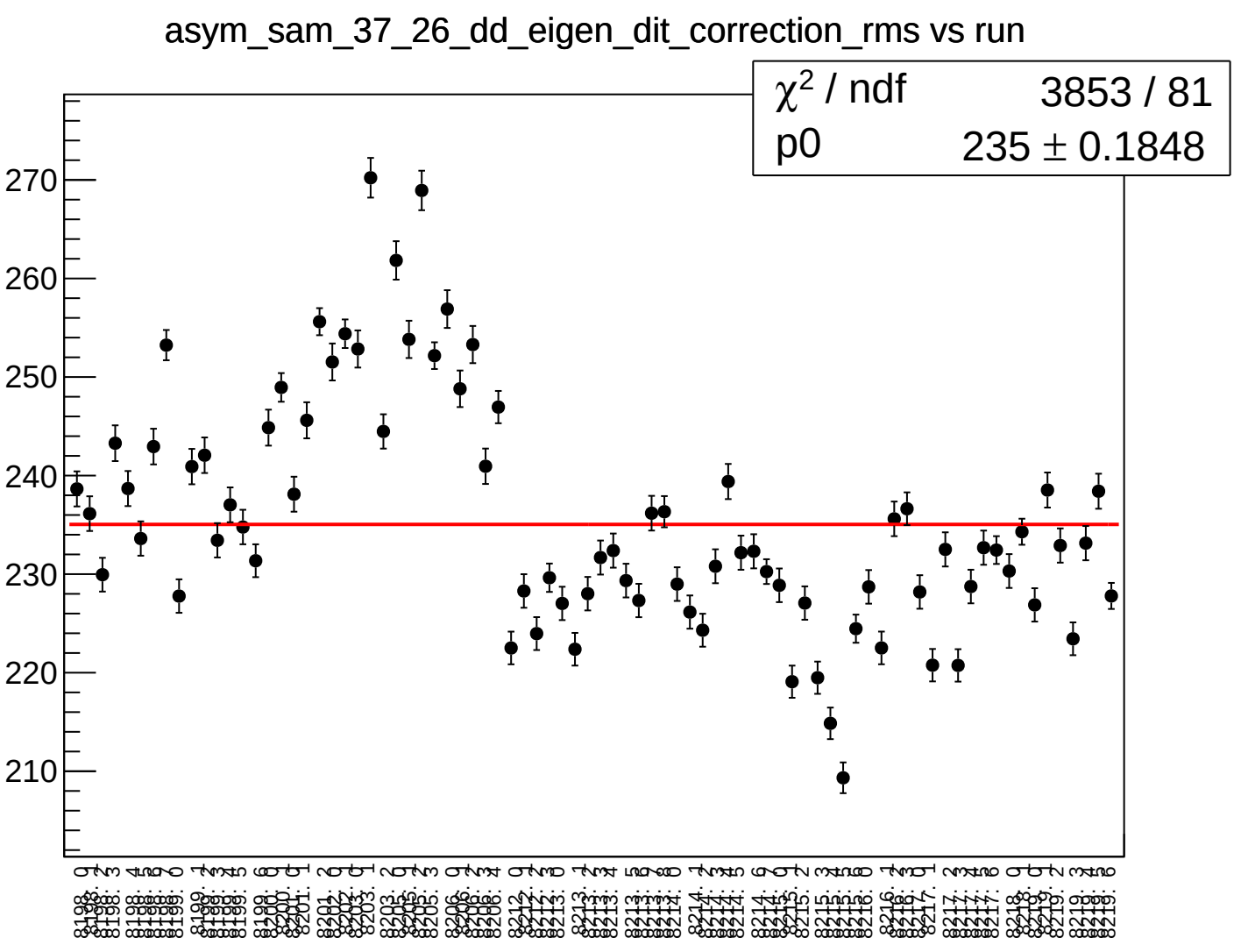

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 121.3 / 81
p0 −127 ± 76.36
pull
Entries 82
Mean −532.6
Std Dev 0

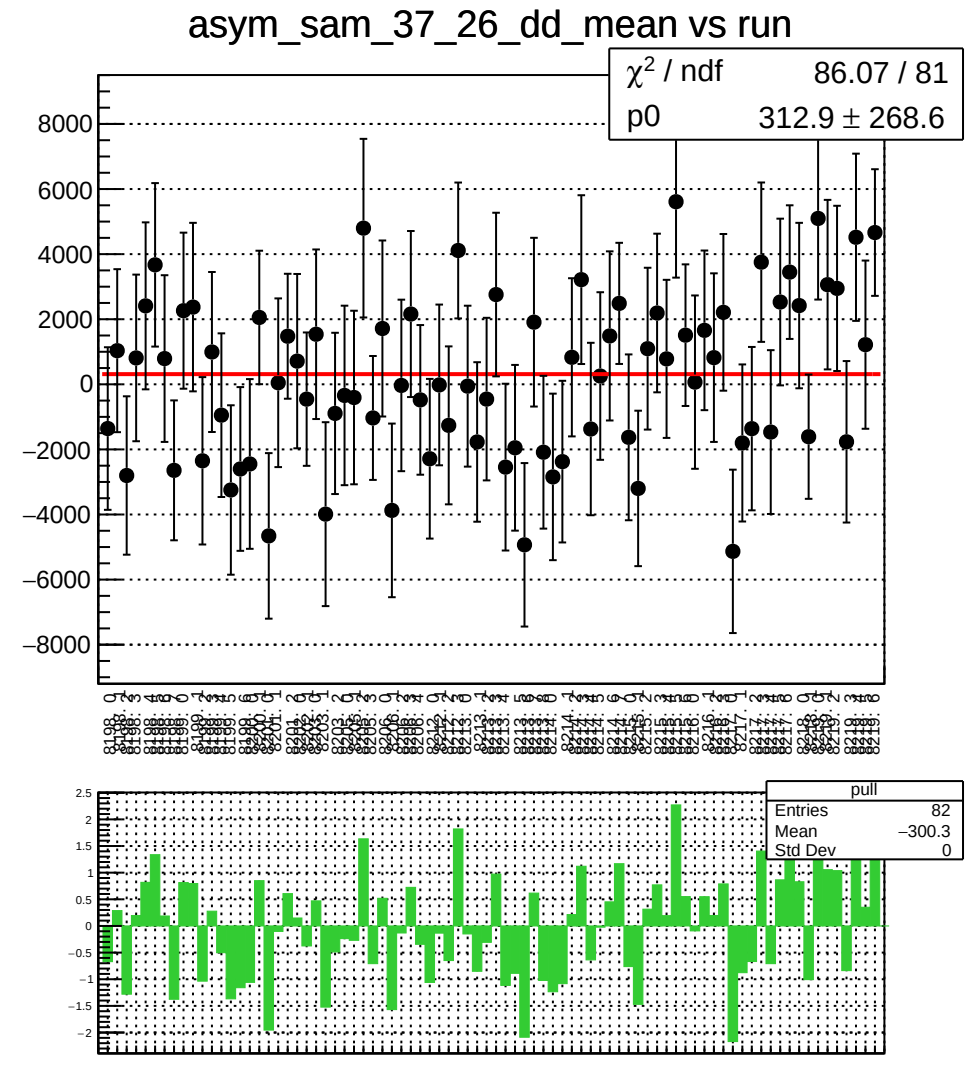

pull1D
Entries 82
Mean 0.001225
Std Dev 1.216

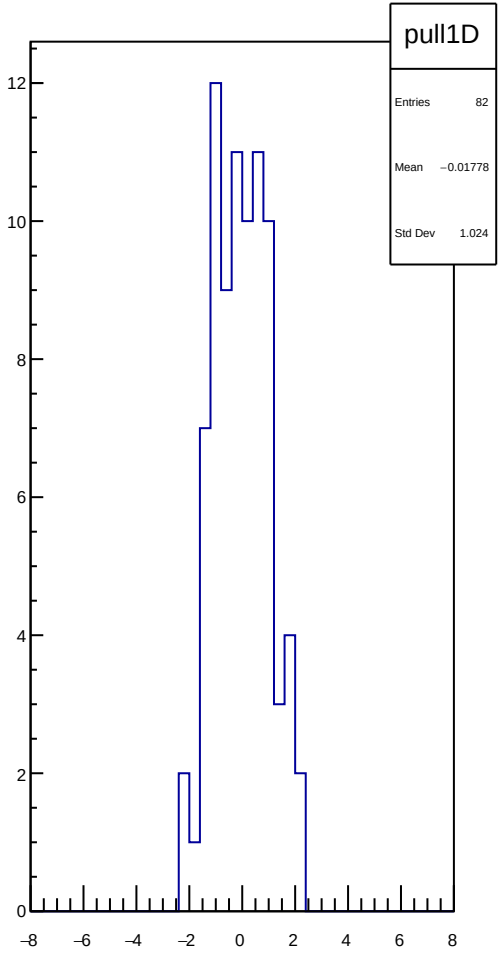

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.555e+04 / 81
p0 68.21 ± 0.054
100
90
80
70
60
50

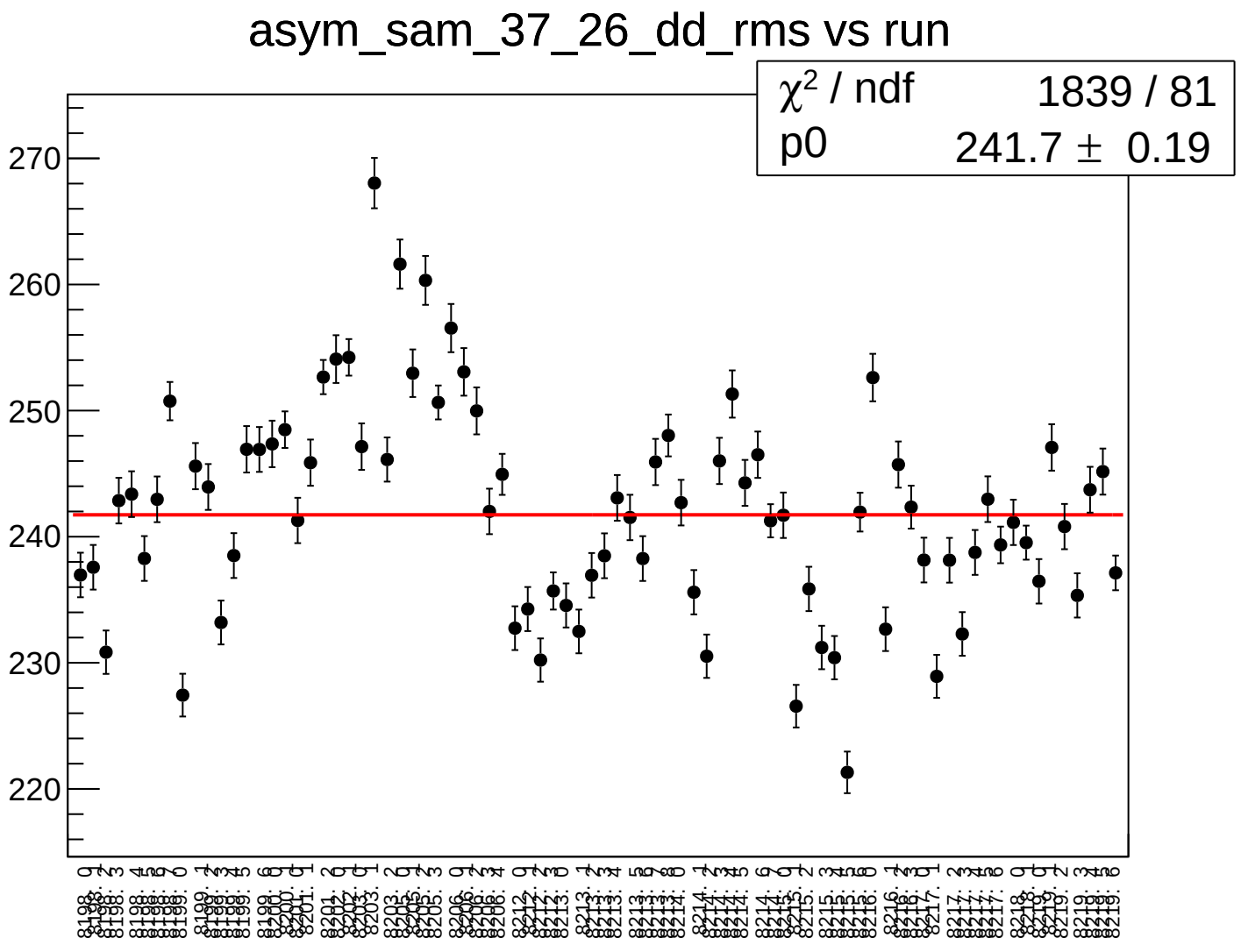

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.93 / 81
p0 −440.7 ± 261.4
pull
Entries 82
Mean −301.9
Std Dev 0

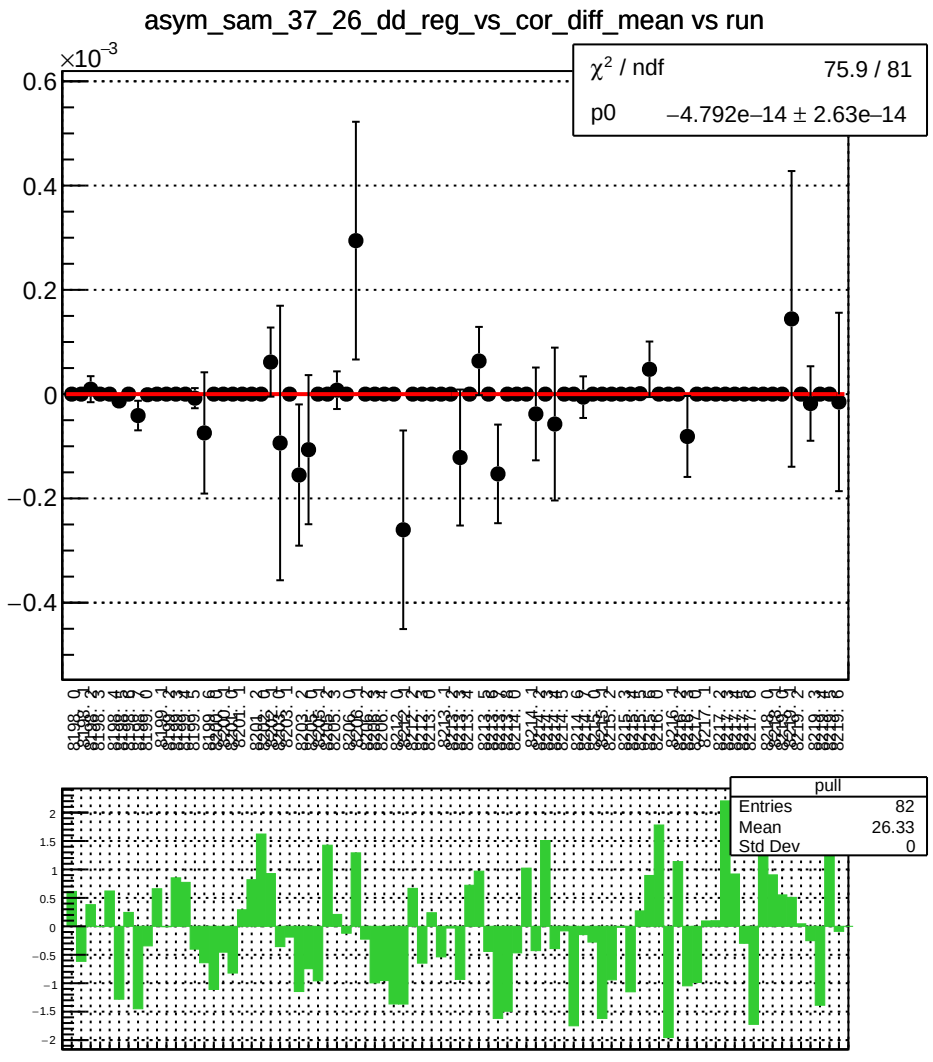

pull1D
Entries 82
Mean 0.01919
Std Dev 0.9809

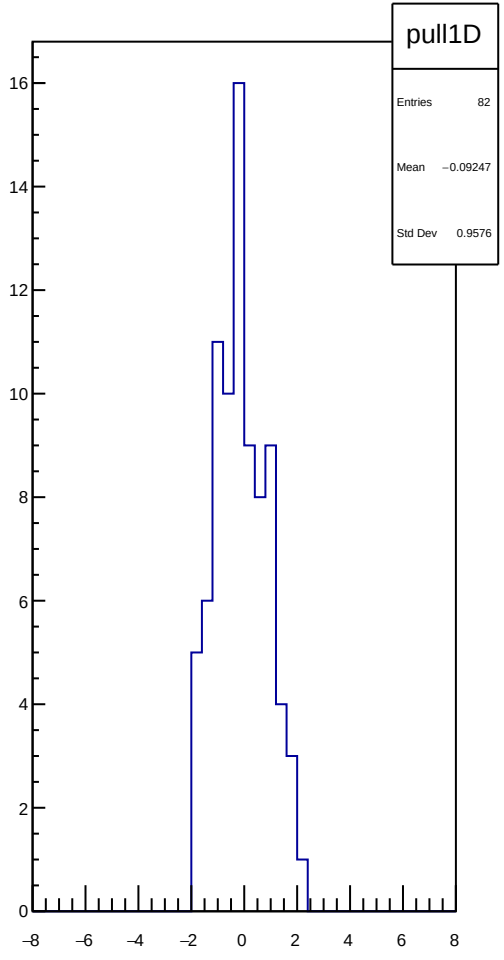

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 3853 / 81
p0 235 ± 0.1848
270
260
250
240
230
220
210

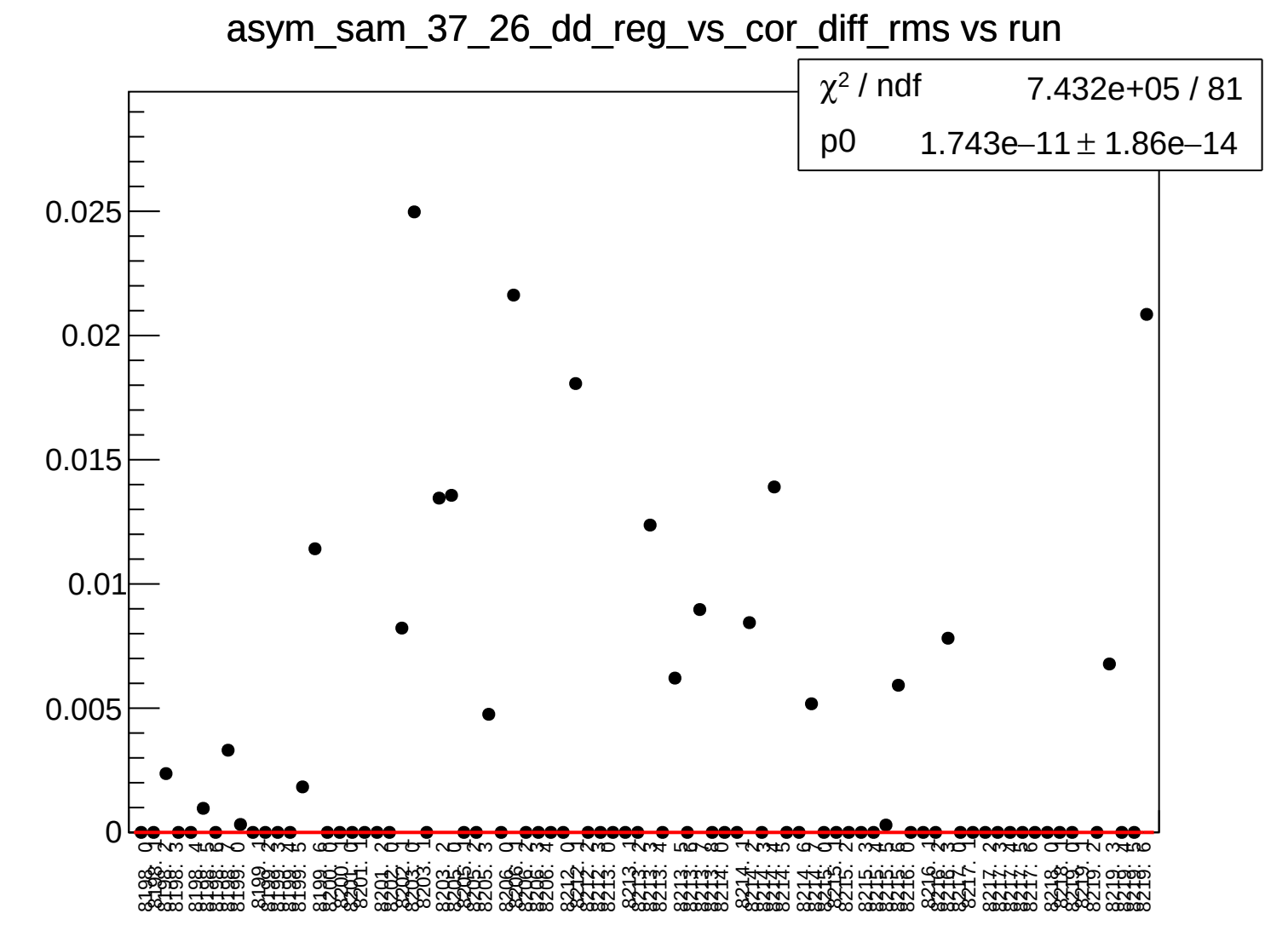

asym_sam_37_26_dd_mean vs run
χ² / ndf 86.07 / 81
p0 312.9 ± 268.6
pull
Entries 82
Mean −300.3
Std Dev 0

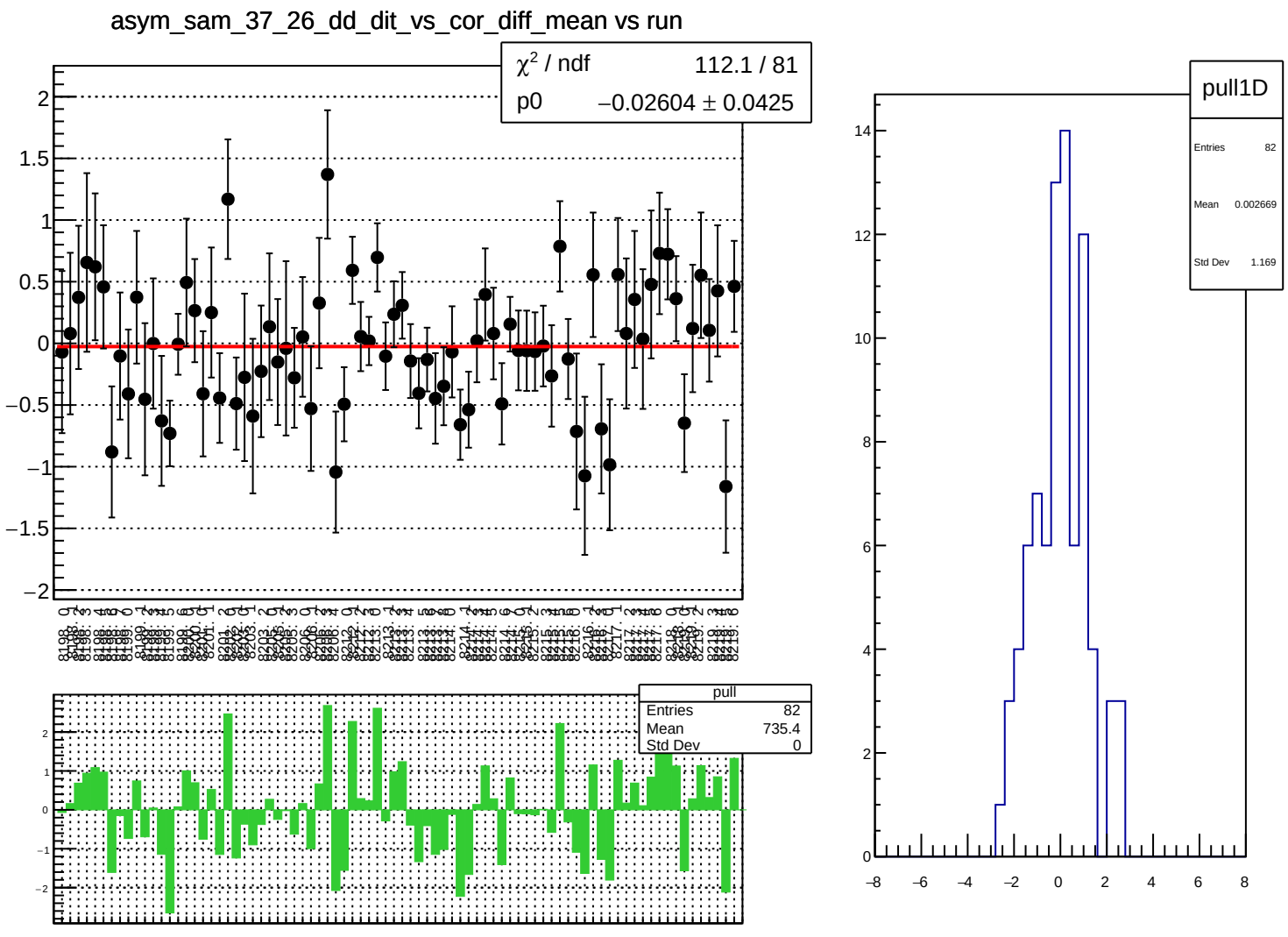

pull1D
Entries 82
Mean −0.01778
Std Dev 1.024

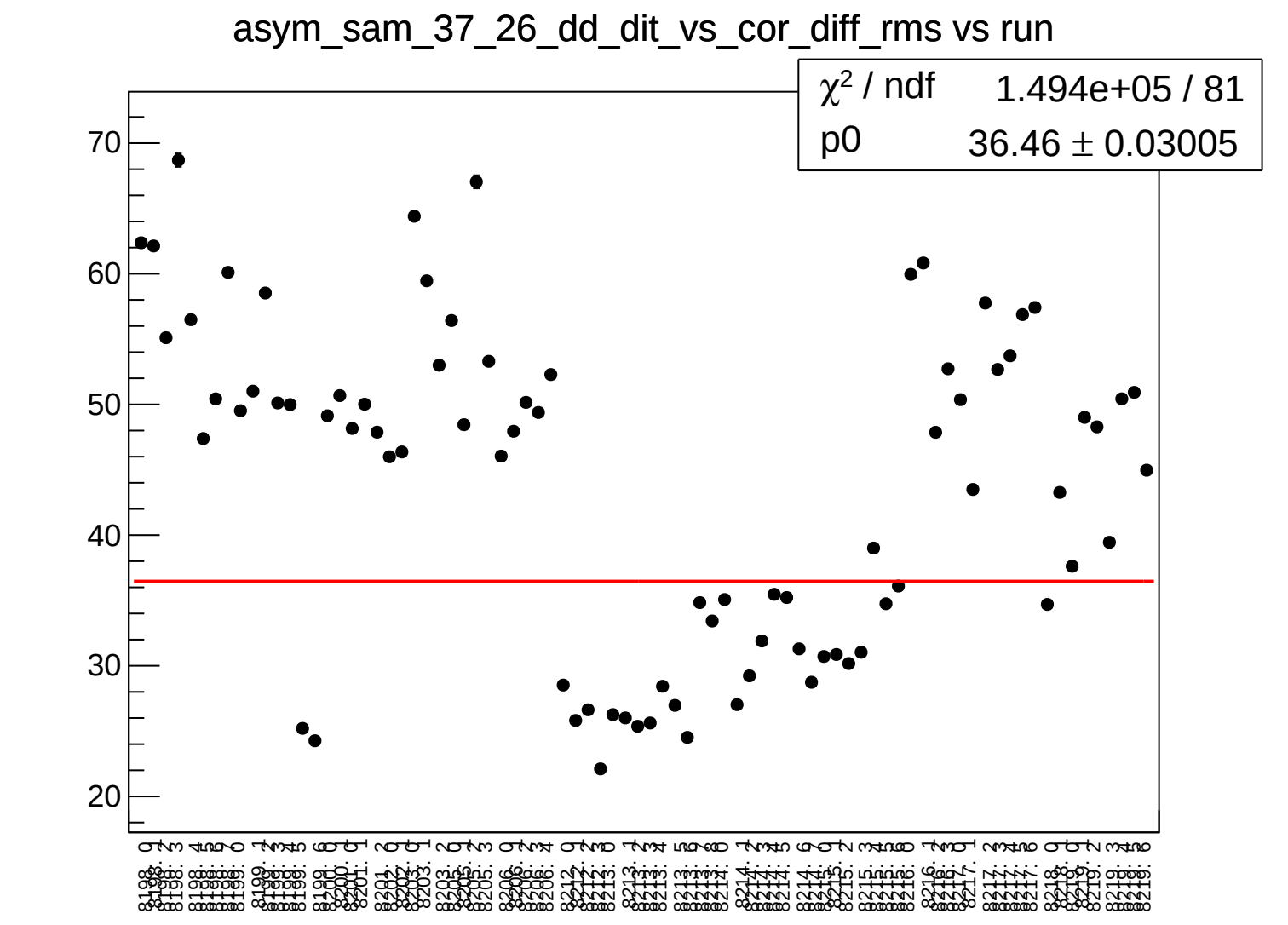

asym_sam_37_26_dd_rms vs run
χ² / ndf 1839 / 81
p0 241.7 ± 0.19
270
260
250
240
230
220

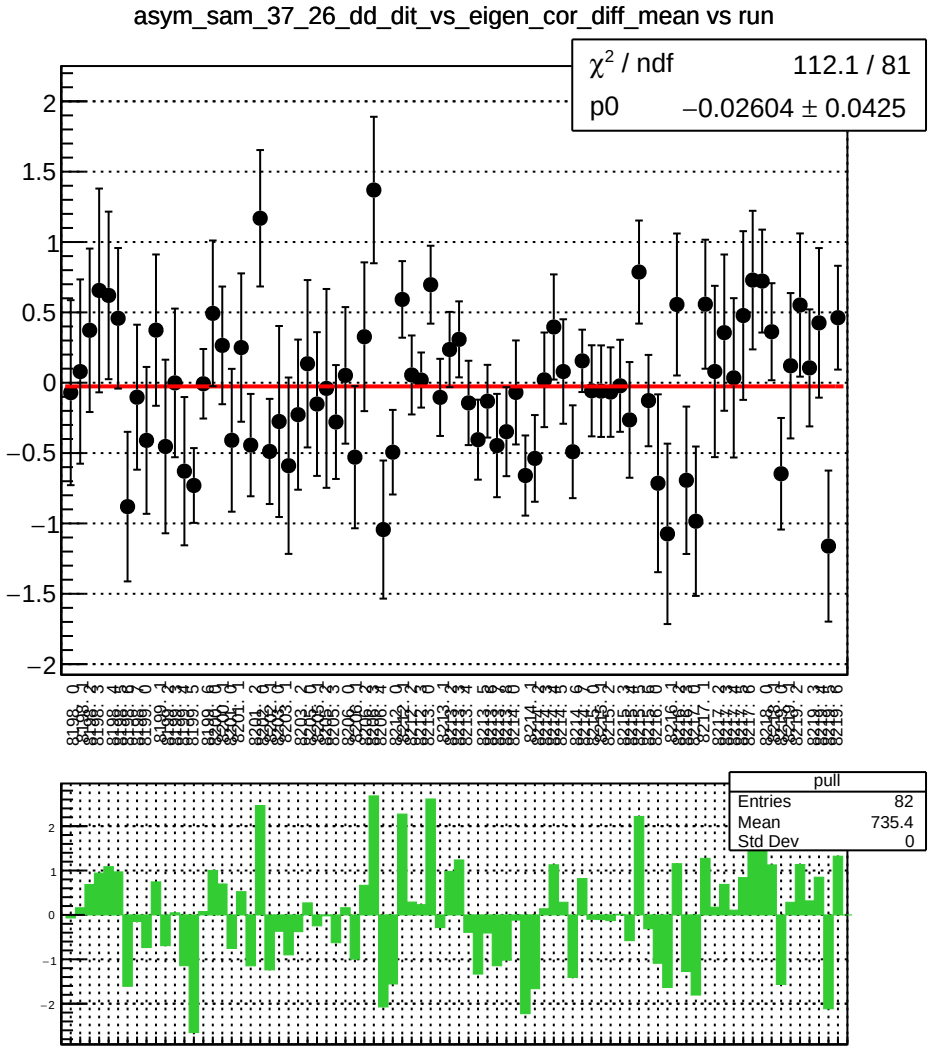

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 75.9 / 81
p0 −4.792e−14 ± 2.63e−14
pull
Entries 82
Mean 26.33
Std Dev 0

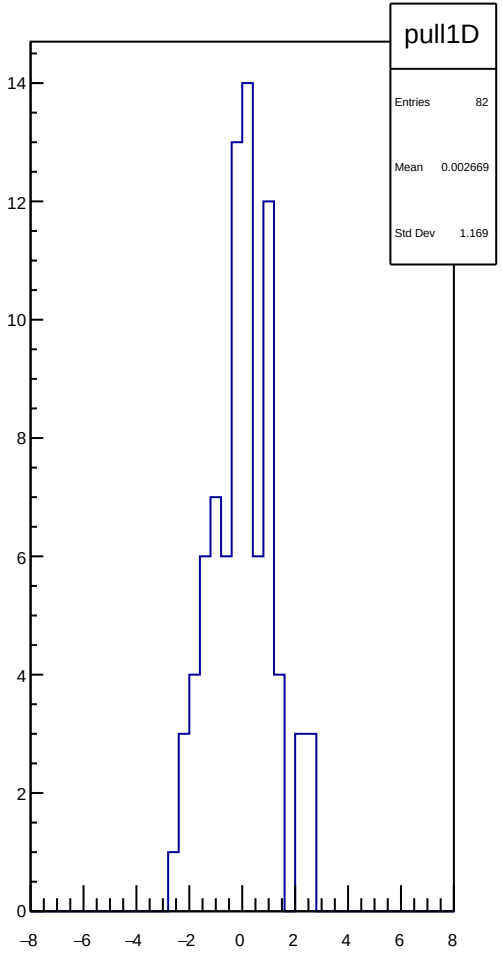

pull1D
Entries 82
Mean −0.09247
Std Dev 0.9576

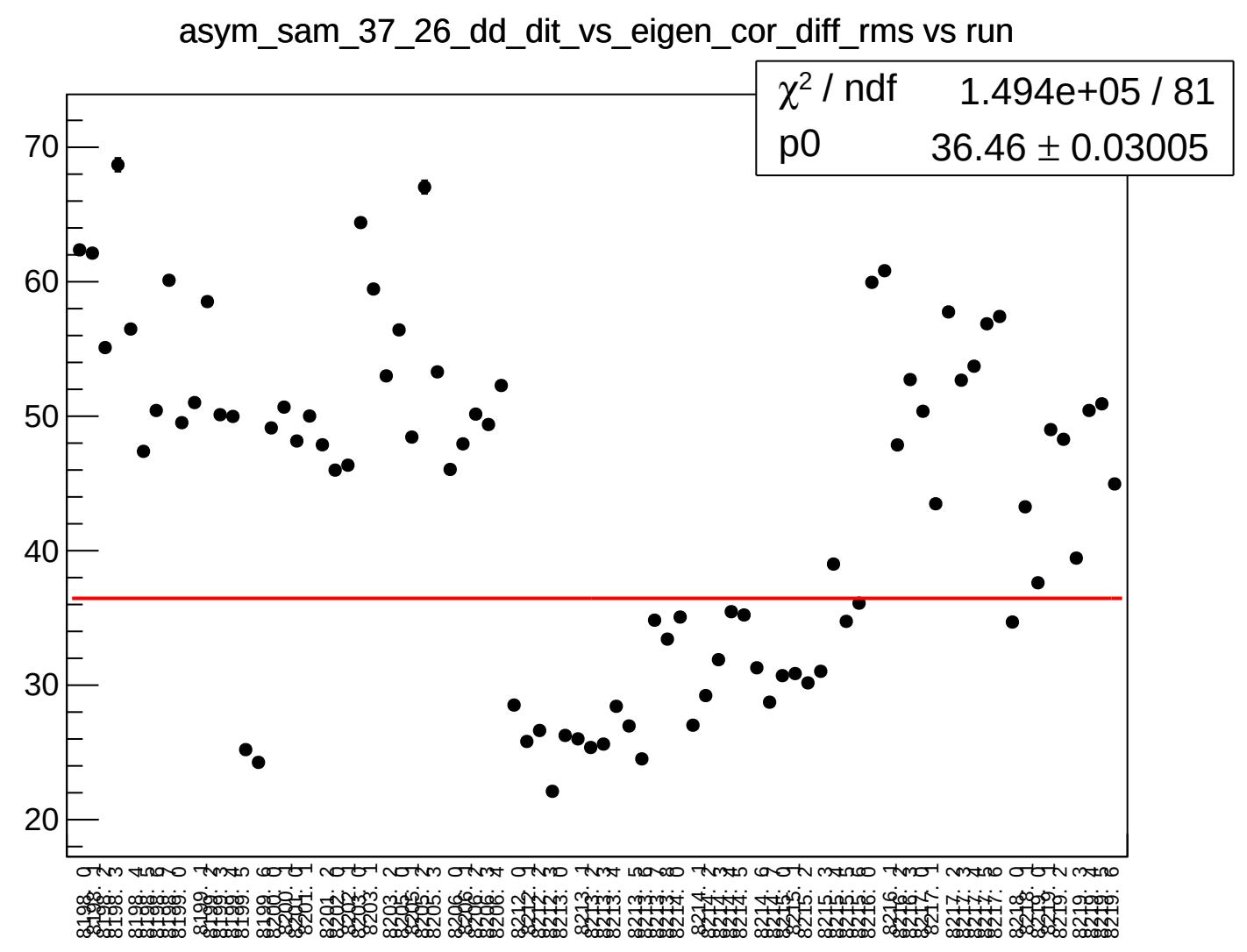

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.432e+05 / 81
p0 1.743e−11 ± 1.86e−14
0.025
0.02
0.015
0.01
0.005
0

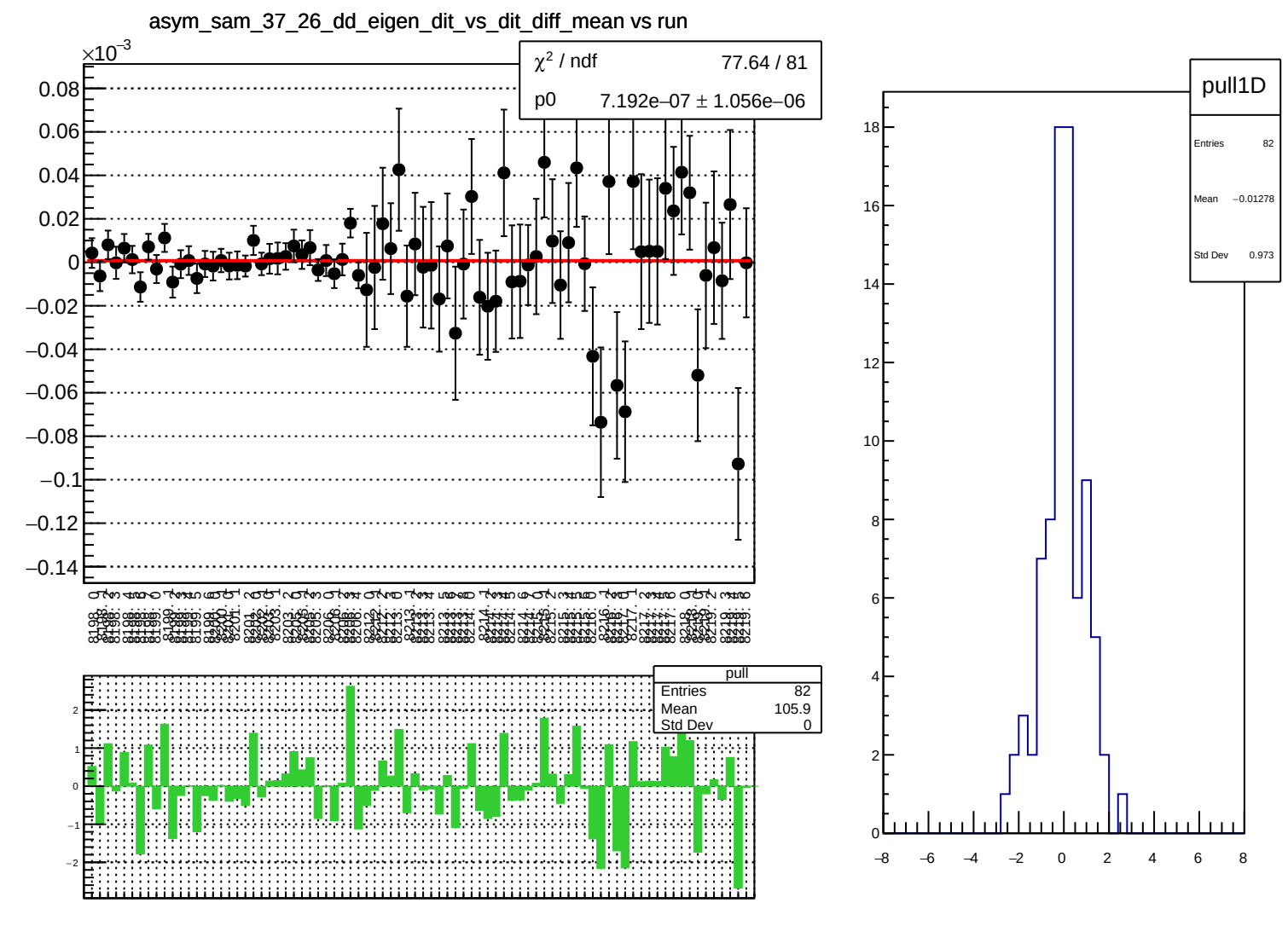

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 81
p0 −0.02604 ± 0.0425
pull
Entries 82
Mean 735.4
Std Dev 0
pull1D
Entries 82
Mean 0.002669
Std Dev 1.169

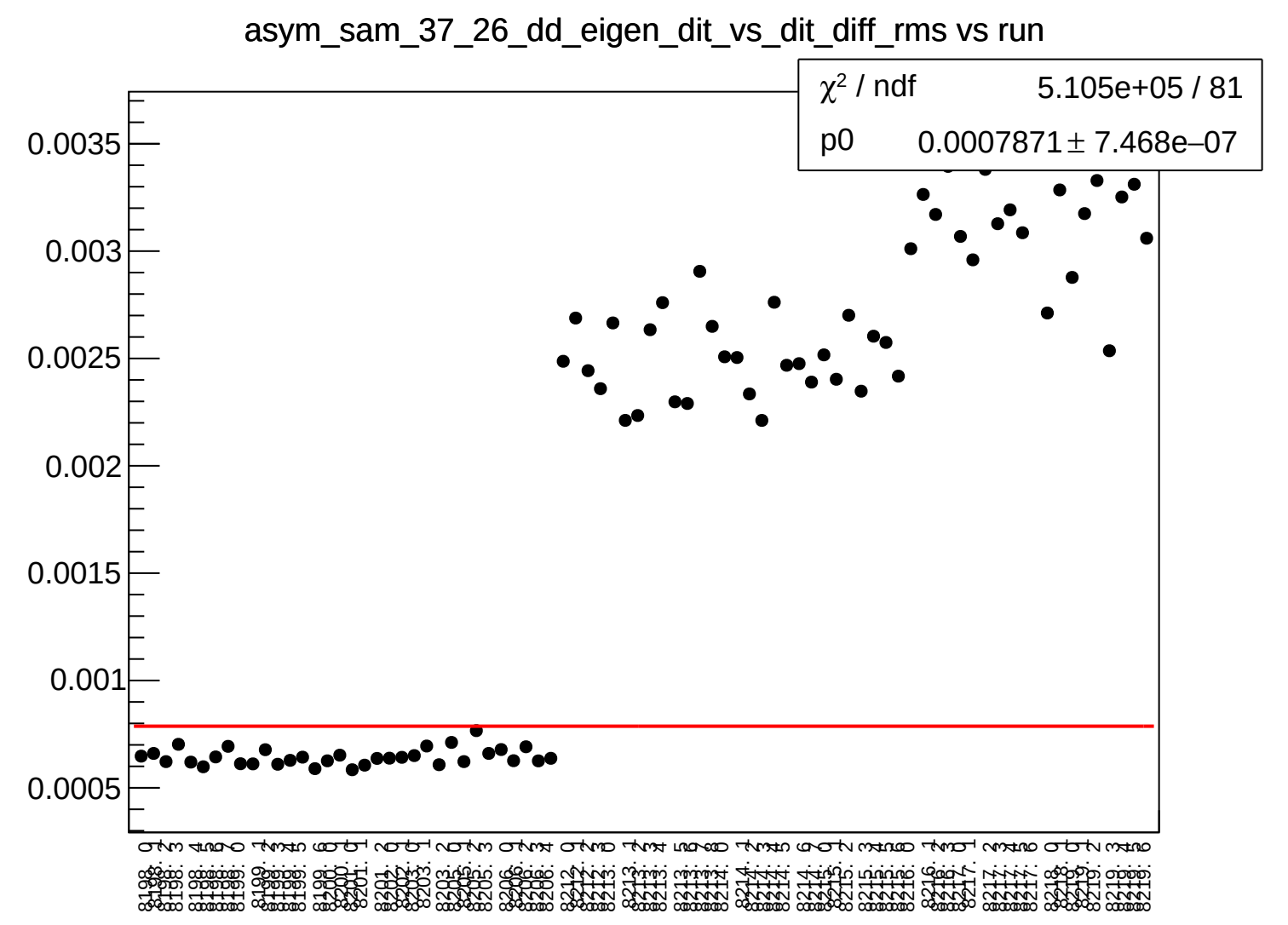

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.494e+05 / 81
p0 36.46 ± 0.03005
70
60
50
40
30
20

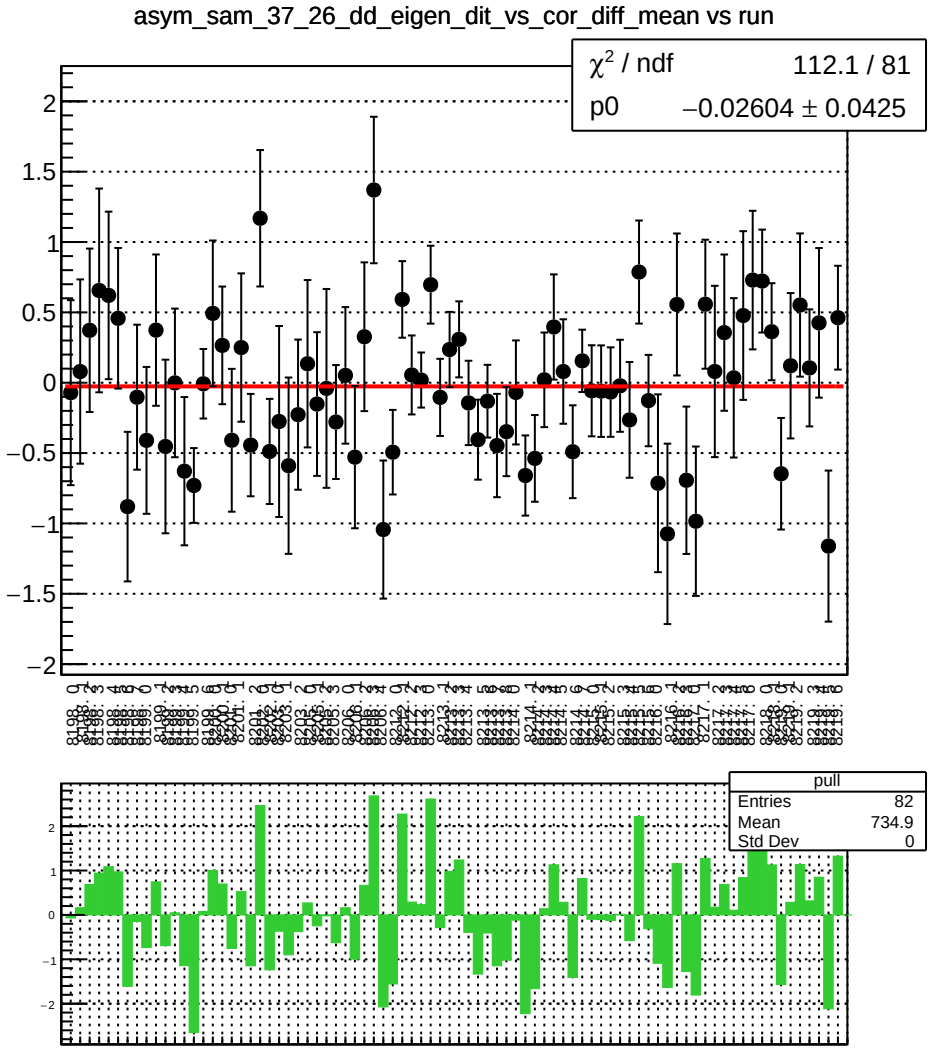

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.1 / 81
p0 −0.02604 ± 0.0425
pull
Entries 82
Mean 735.4
Std Dev 0

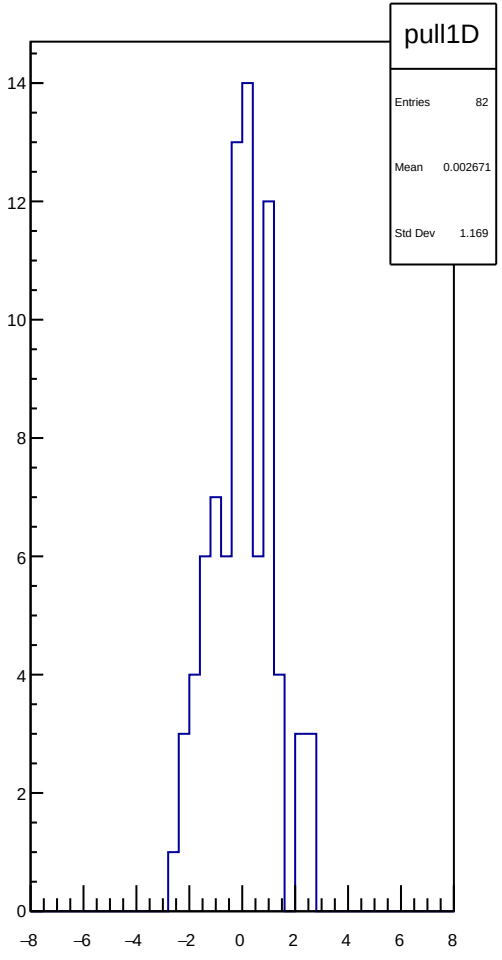

pull1D
Entries 82
Mean 0.002669
Std Dev 1.169

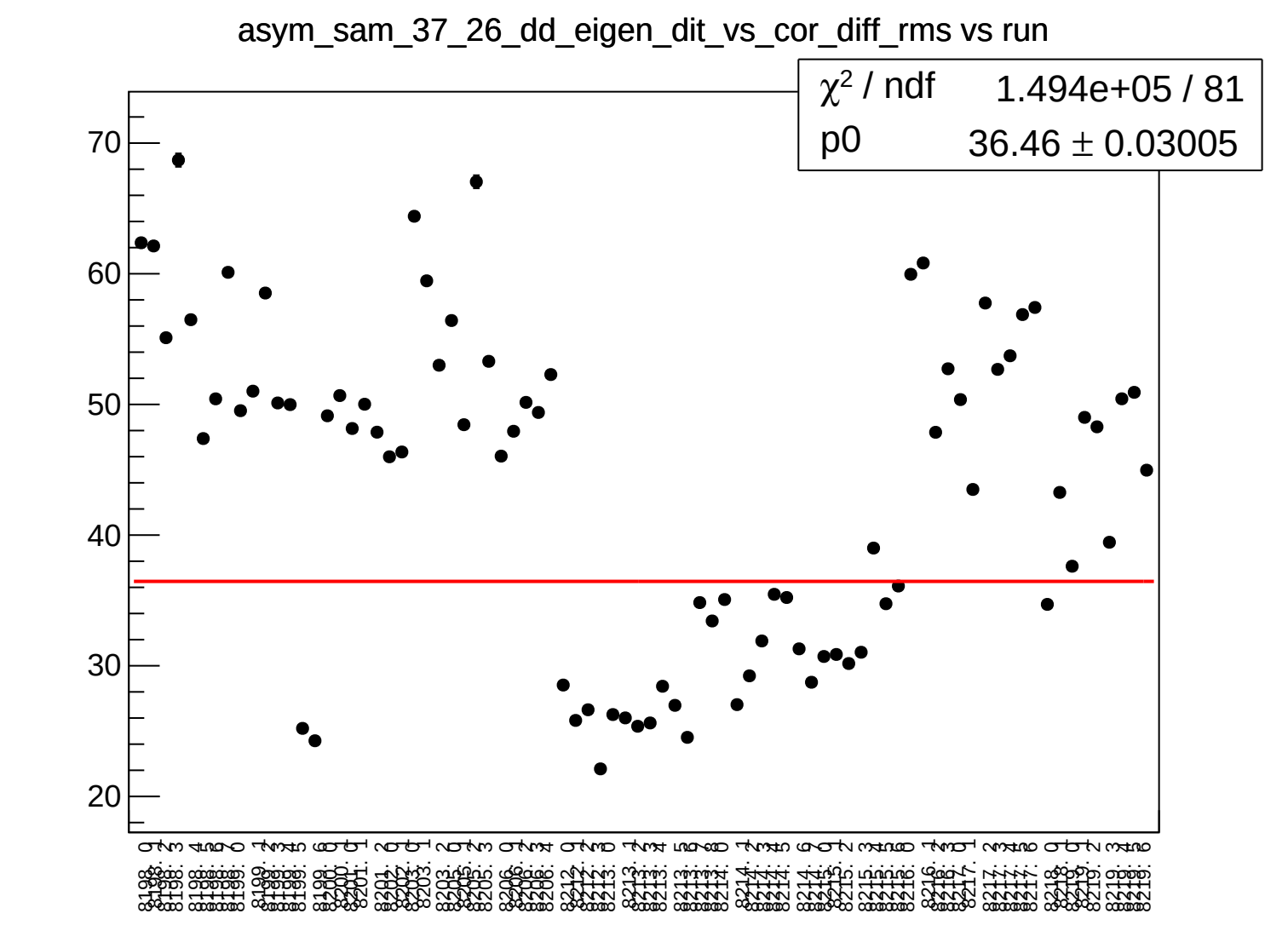

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.494e+05 / 81
p0 36.46 ± 0.03005
70
60
50
40
30
20


asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 77.64 / 81
p0 7.192e−07 ± 1.056e−06
pull
Entries 82
Mean 105.9
Std Dev 0
pull1D
Entries 82
Mean −0.01278
Std Dev 0.973

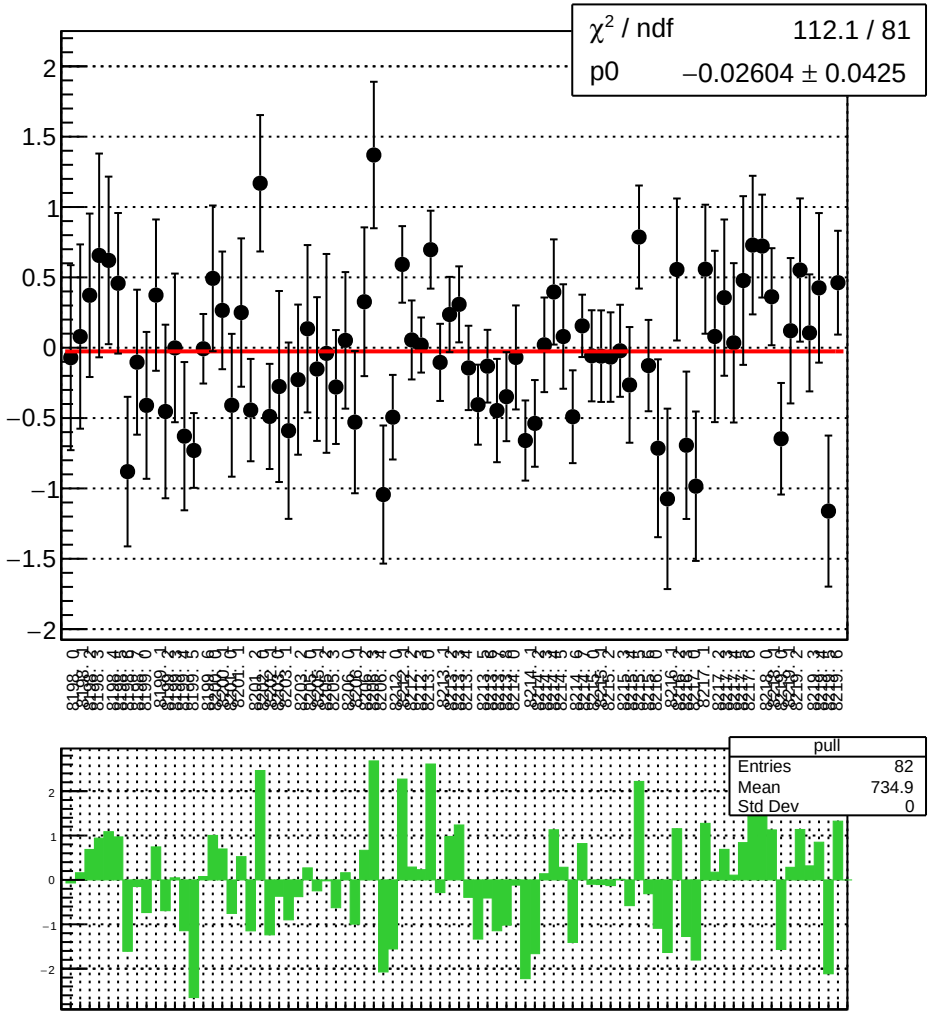

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.105e+05 / 81
p0 0.0007871 ± 7.468e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

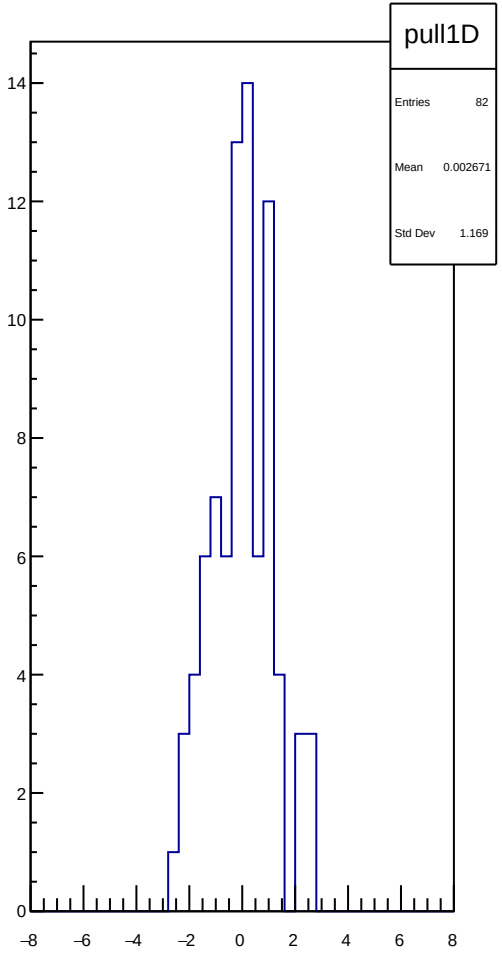

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 81
p0 −0.02604 ± 0.0425
pull
Entries 82
Mean 734.9
Std Dev 0

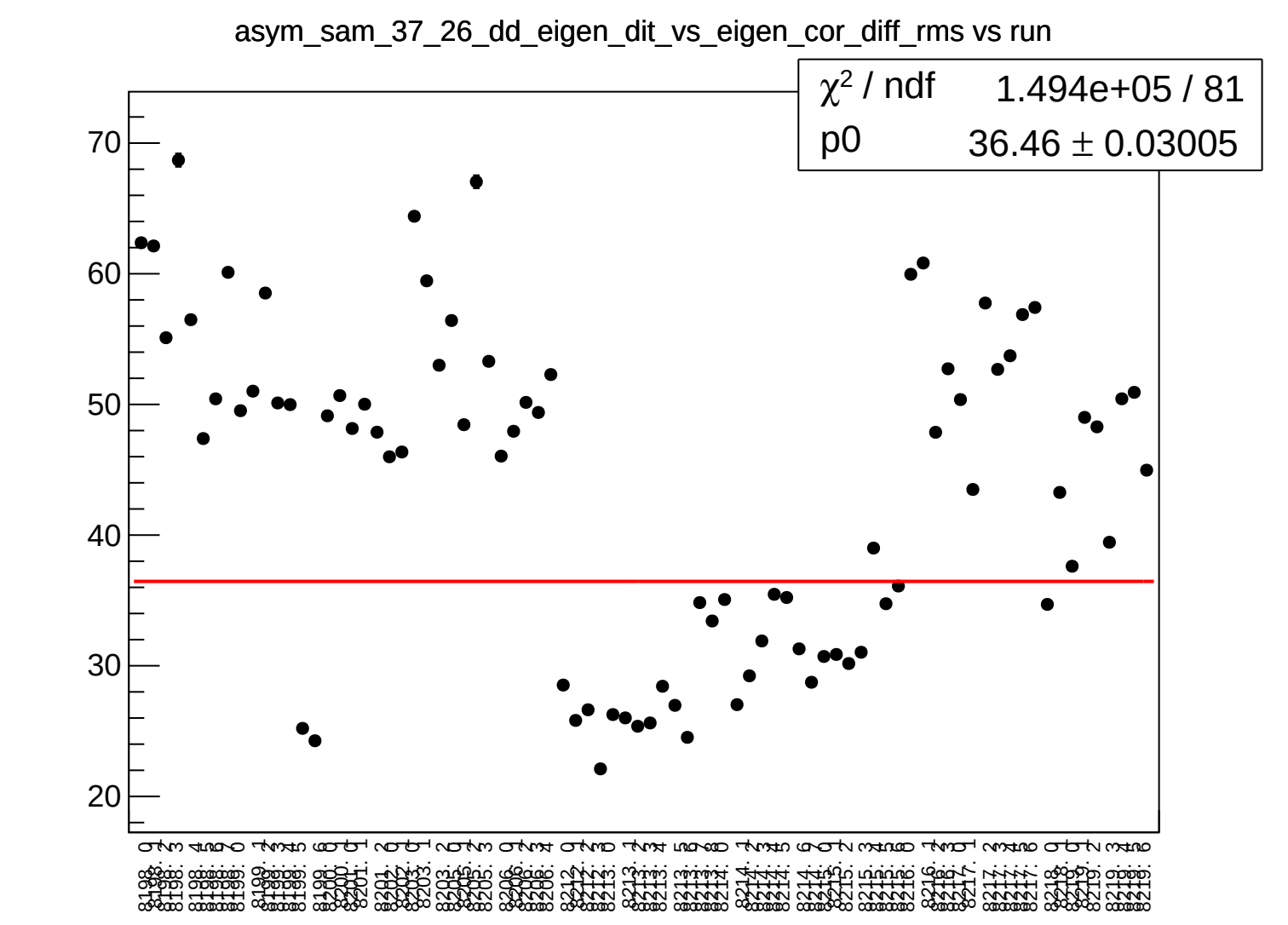

pull1D
Entries 82
Mean 0.002671
Std Dev 1.169

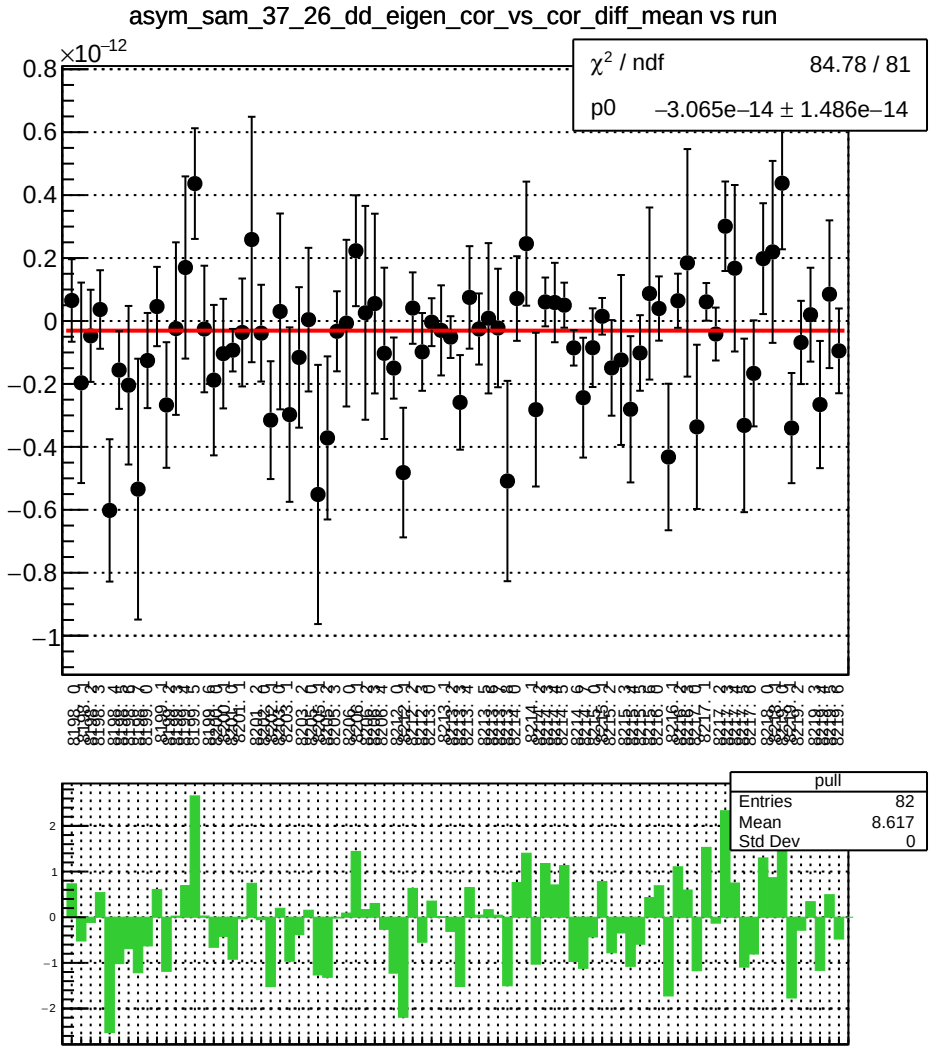

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.494e+05 / 81
p0 36.46 ± 0.03005
70
60
50
40
30
20

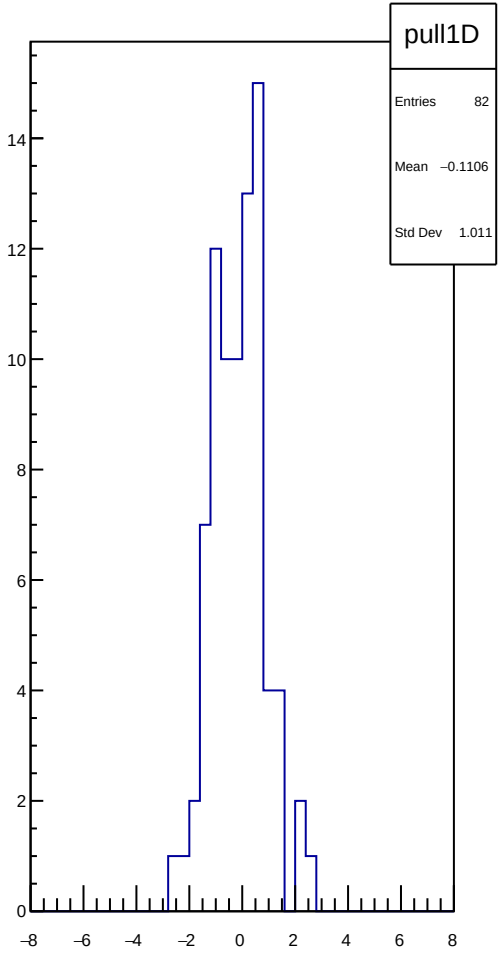
asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

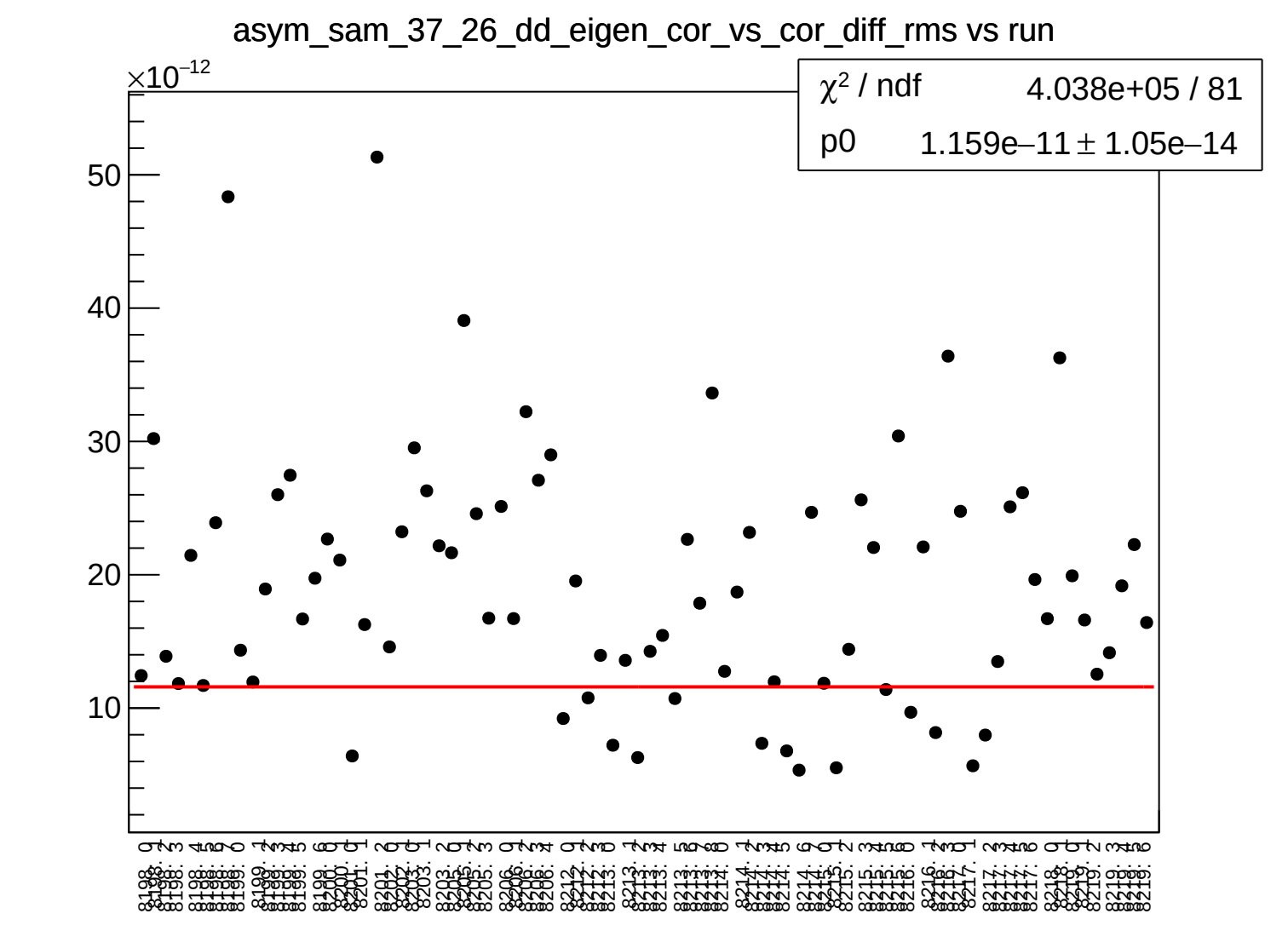


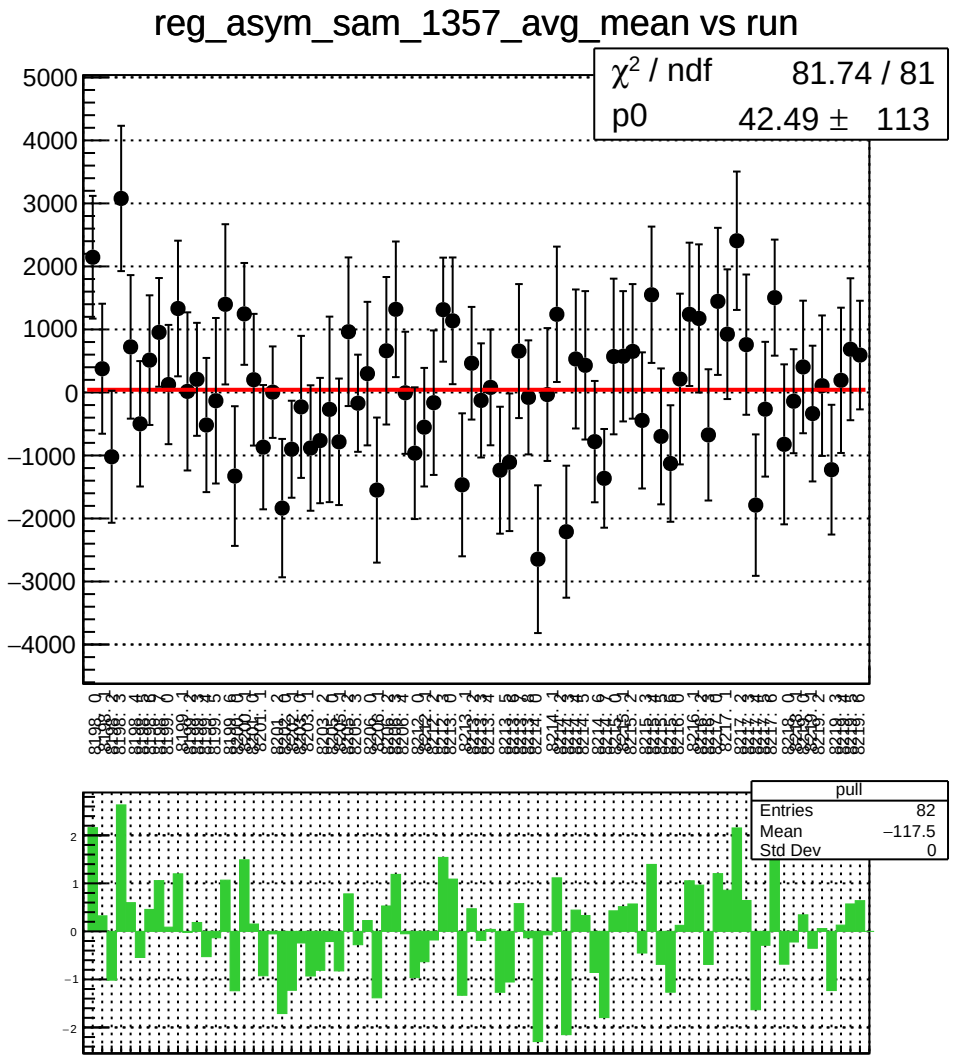



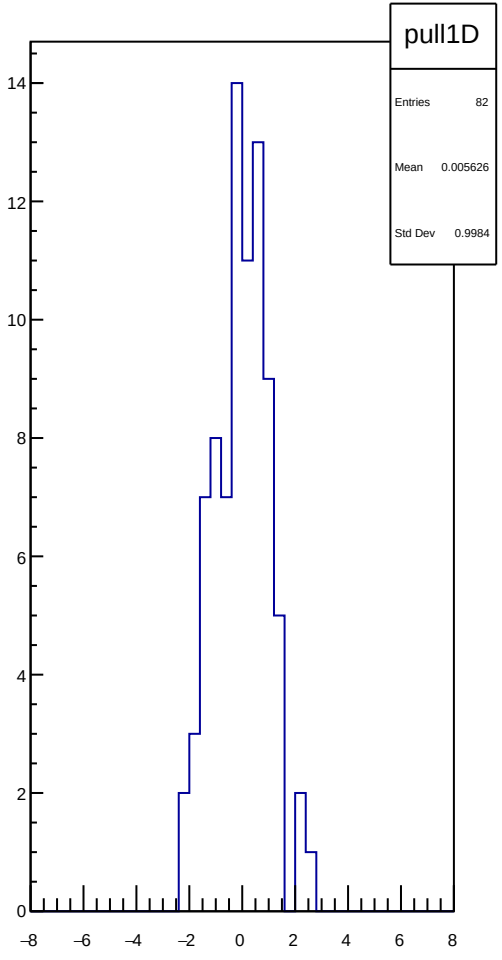

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.494e+05 / 81
p0 36.46 ± 0.03005
70
60
50
40
30
20

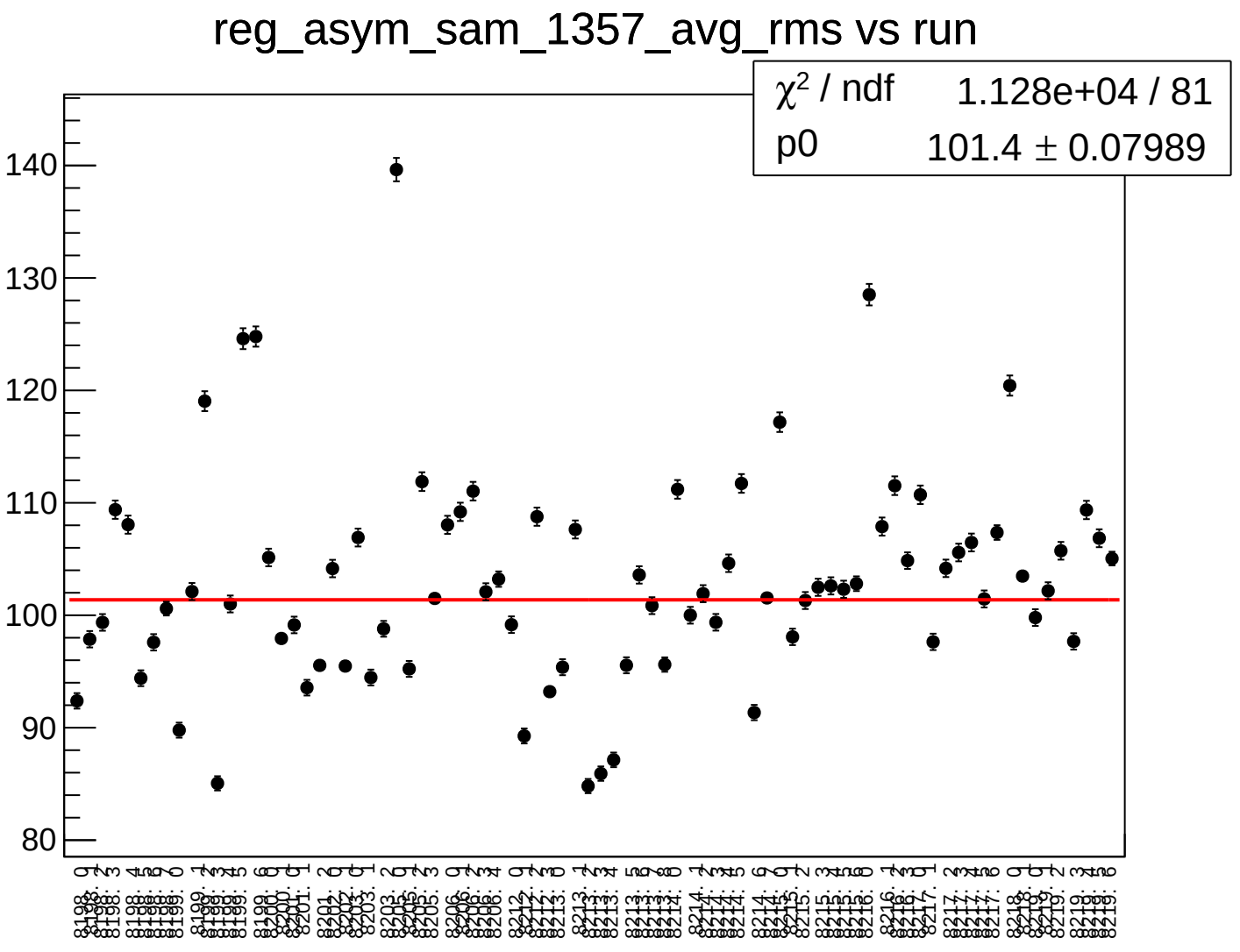

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.78 / 81
p0 −3.065e−14 ± 1.486e−14
pull
Entries 82
Mean 8.617
Std Dev 0

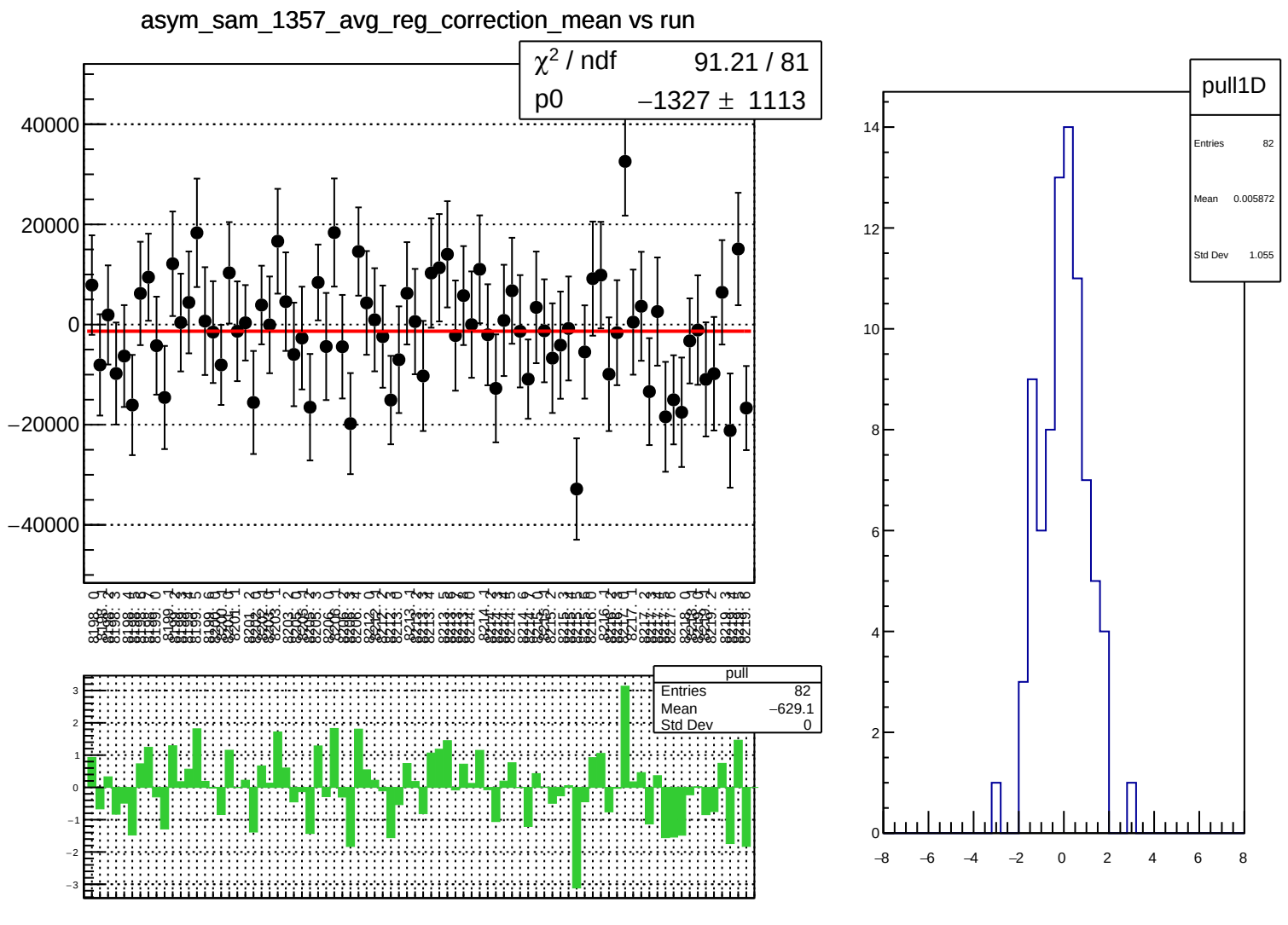

pull1D
Entries 82
Mean −0.1106
Std Dev 1.011

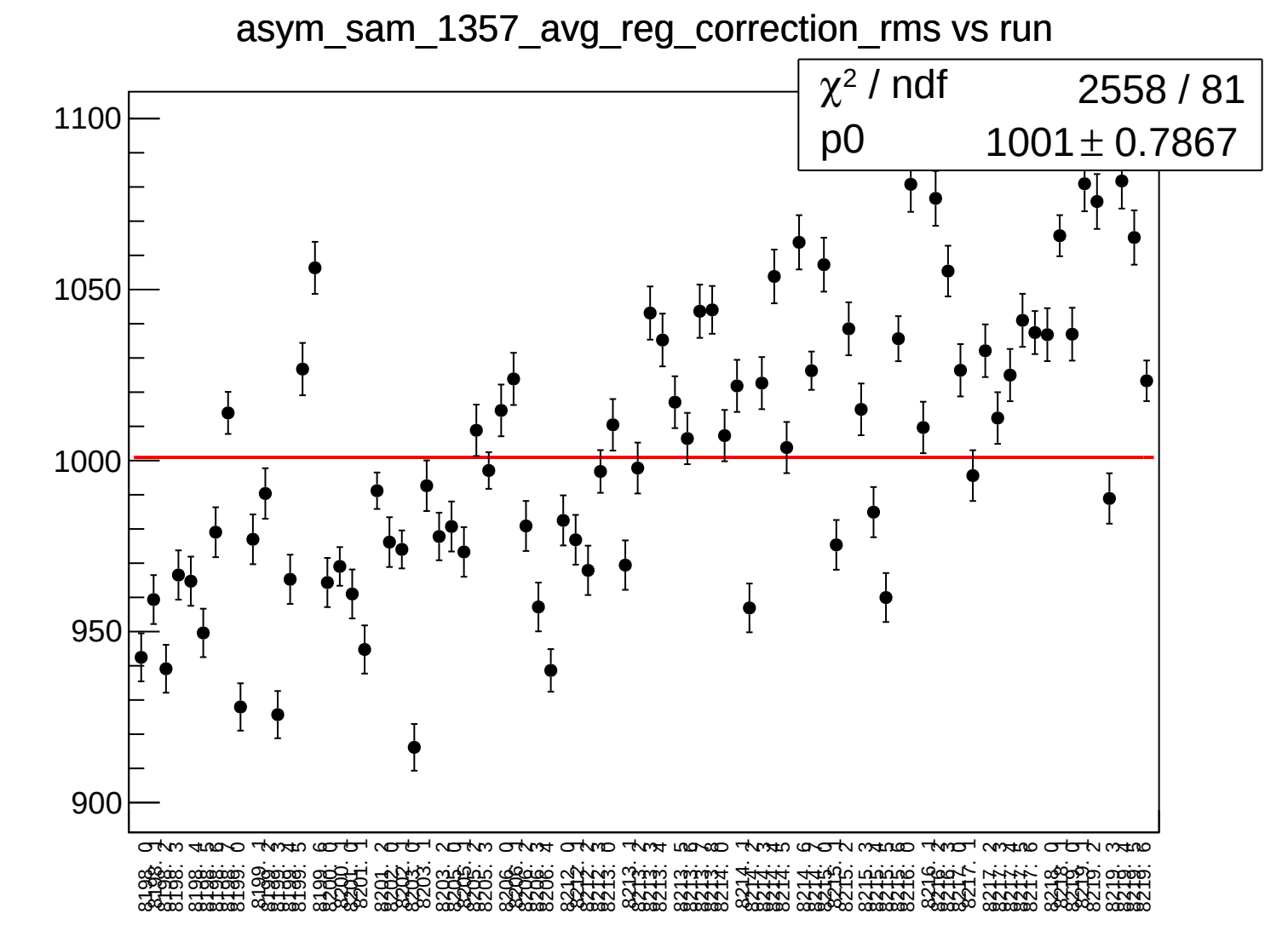

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.038e+05 / 81
p0 1.159e−11 ± 1.05e−14
50
40
30
20
10

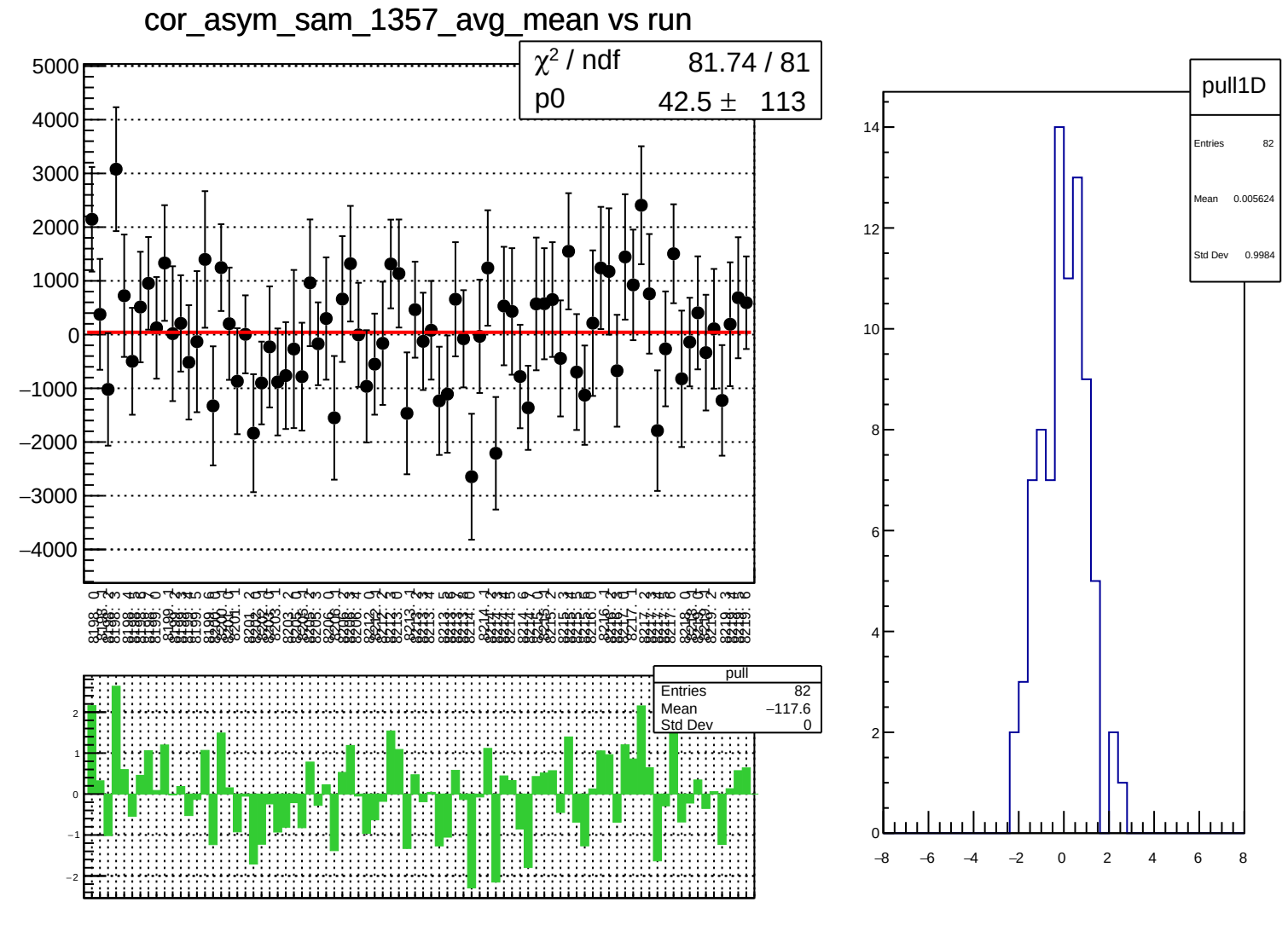

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 81.74 / 81
p0 42.49 ± 113
pull
Entries 82
Mean −117.5
Std Dev 0

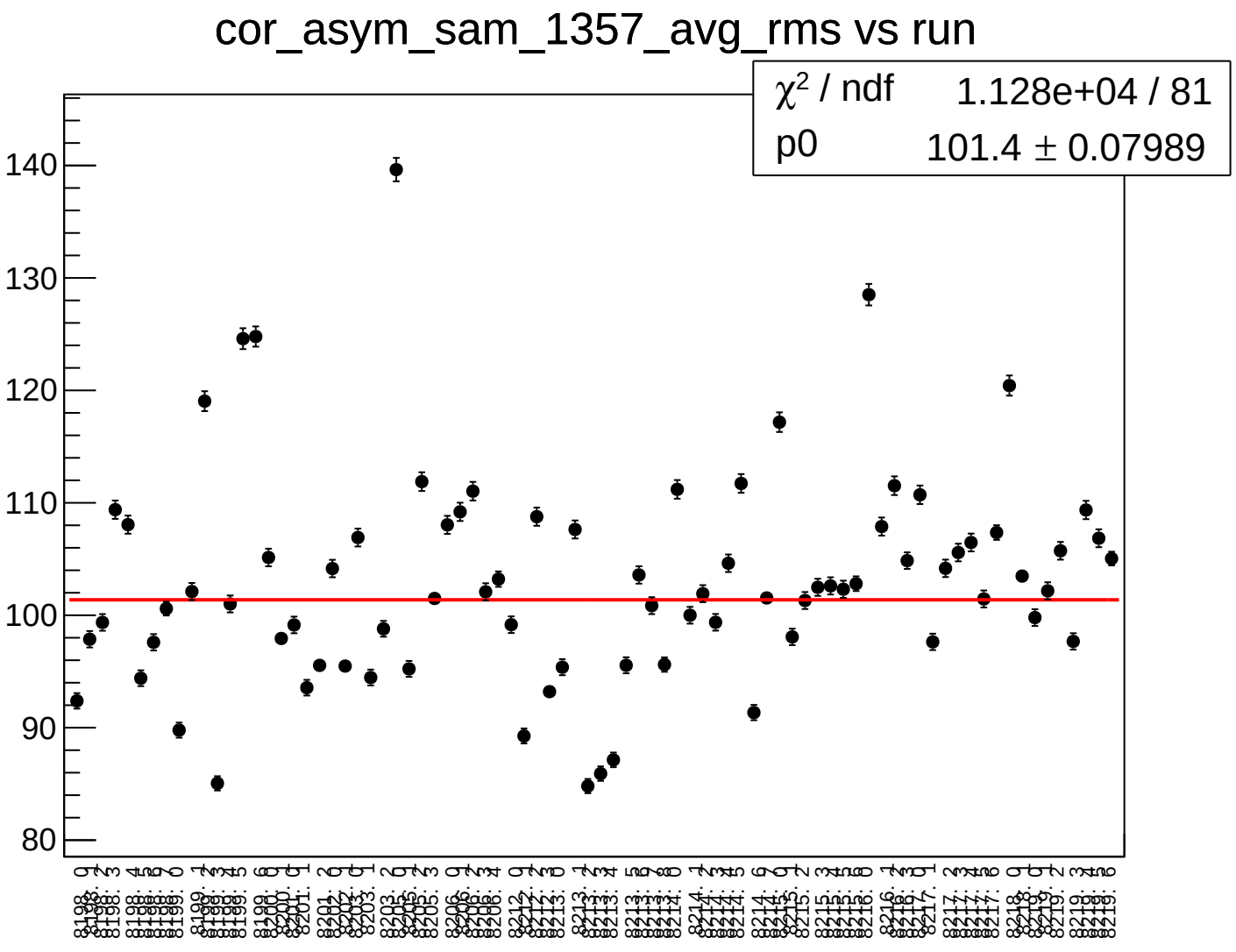

pull1D
Entries 82
Mean 0.005626
Std Dev 0.9984

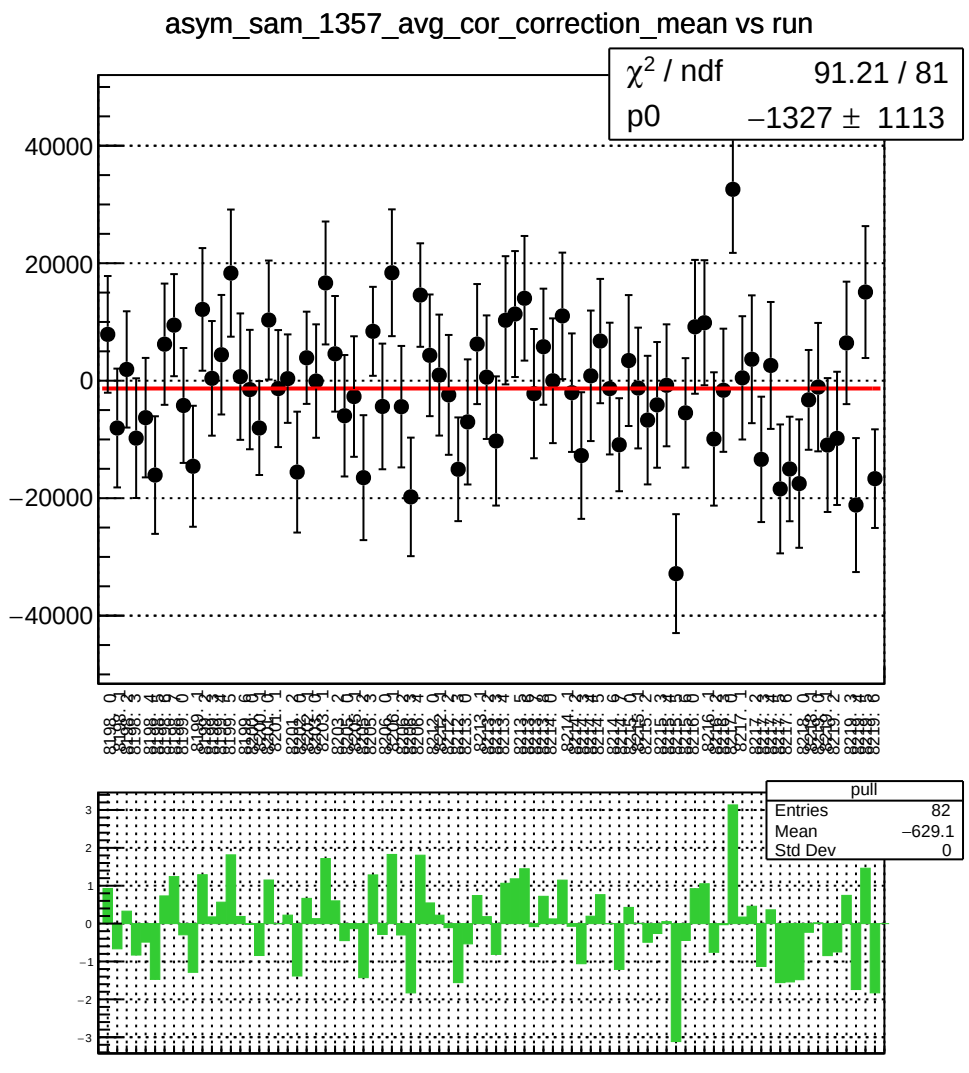

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 1.128e+04 / 81
p0 101.4 ± 0.07989
140
130
120
110
100
90
80

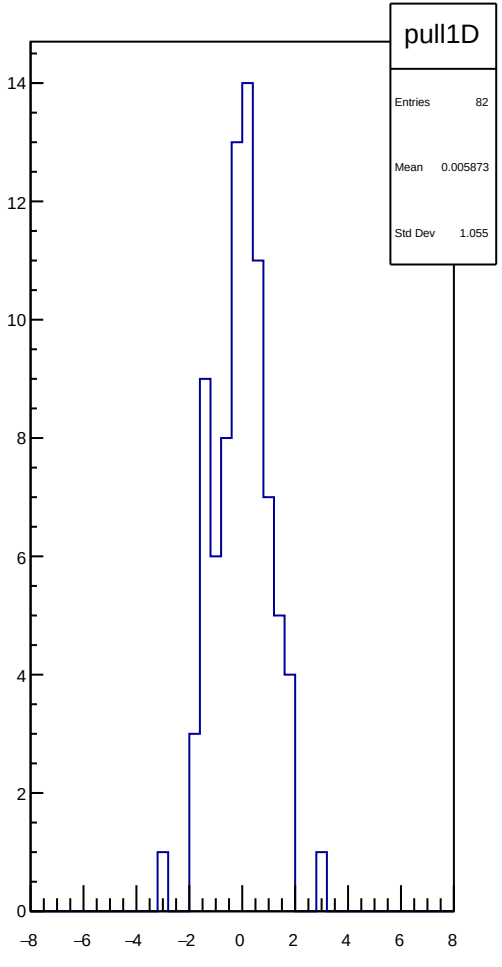

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 91.21 / 81
p0 −1327 ± 1113
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −629.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.005872
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

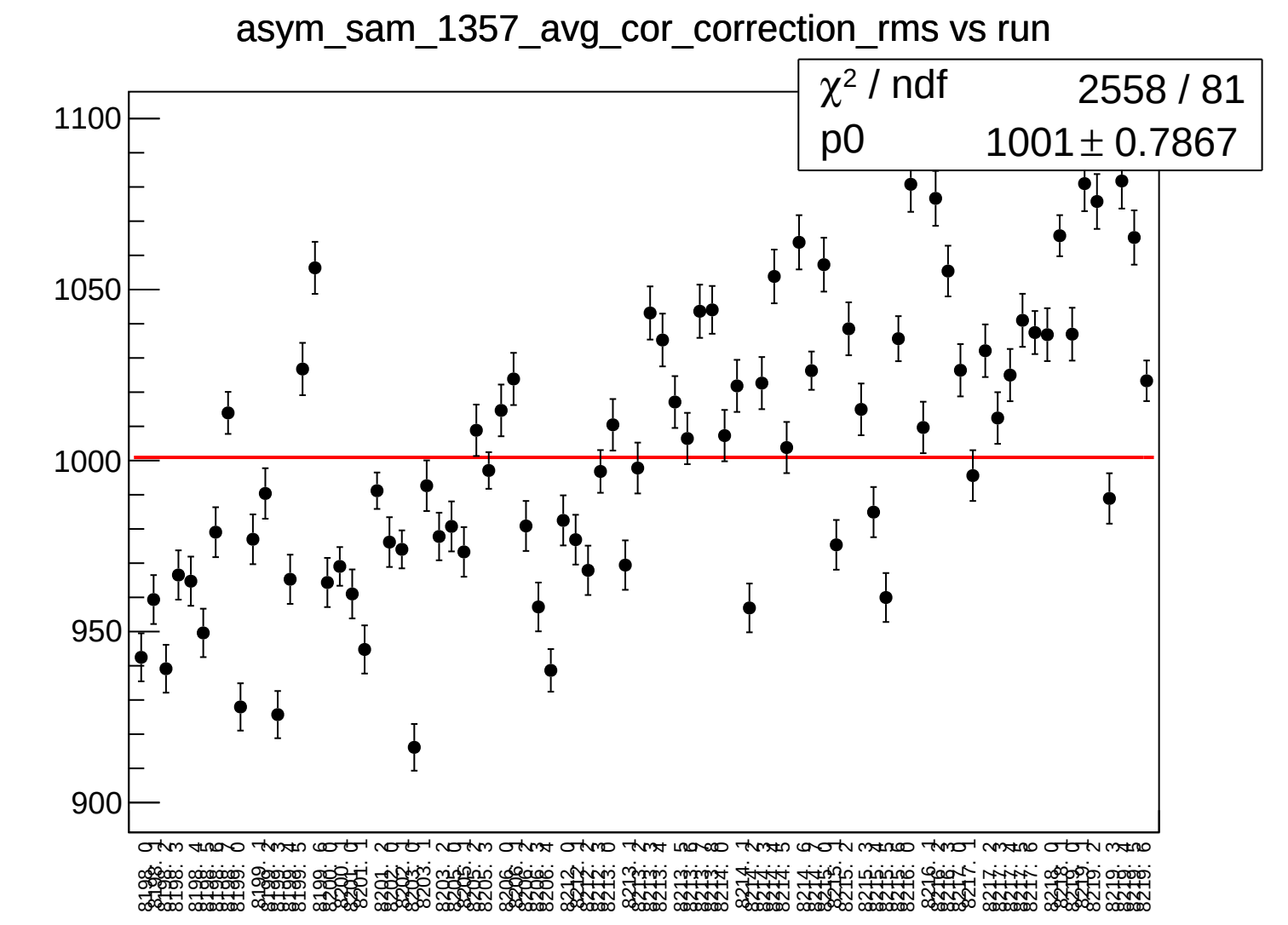

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 2558 / 81
p0 1001 ± 0.7867
1100
1050
1000
950
900

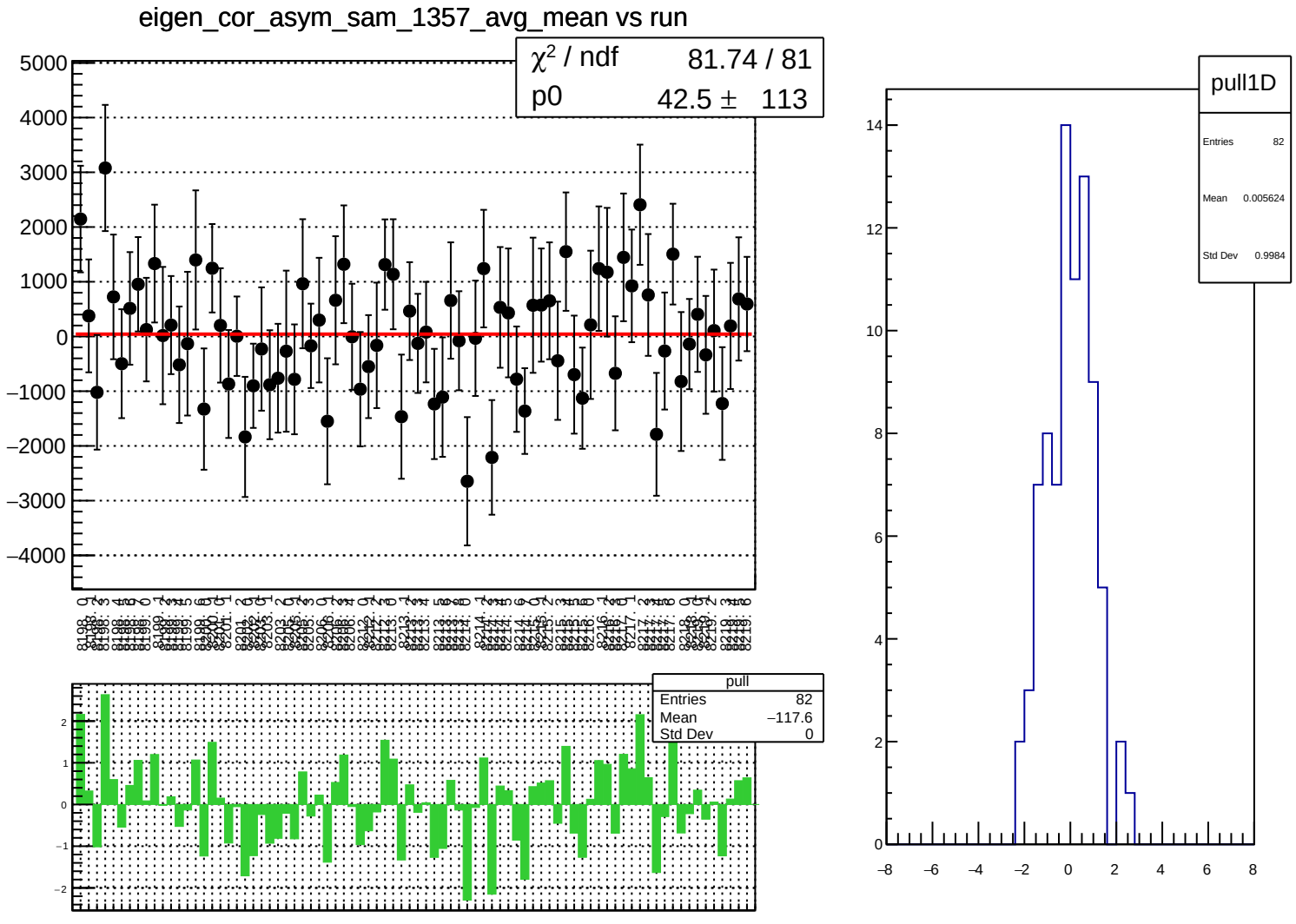

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 81.74 / 81
p0 42.5 ± 113
pull
Entries 82
Mean −117.6
Std Dev 0
pull1D
Entries 82
Mean 0.005624
Std Dev 0.9984

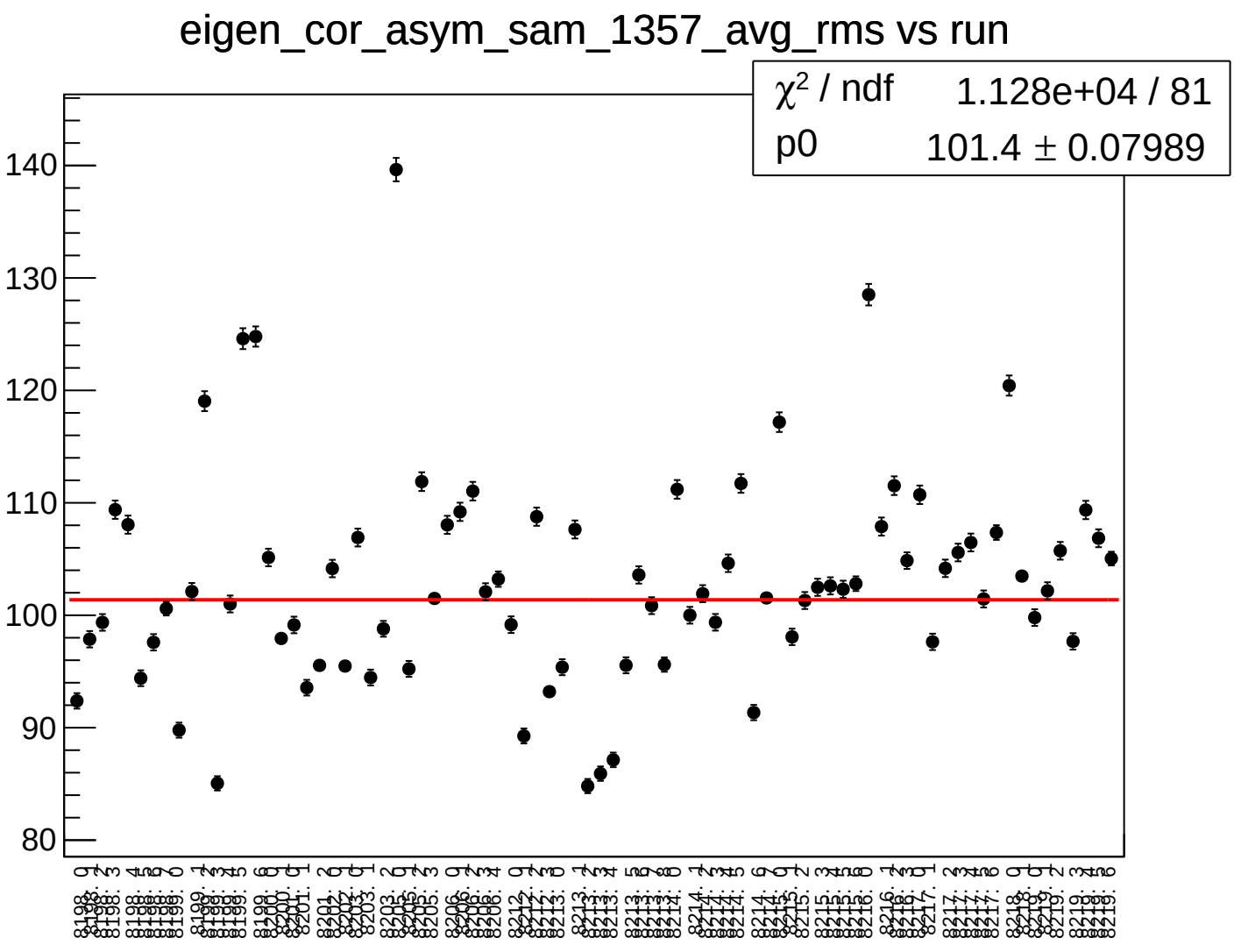

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.128e+04 / 81
p0 101.4 ± 0.07989
140
130
120
110
100
90
80

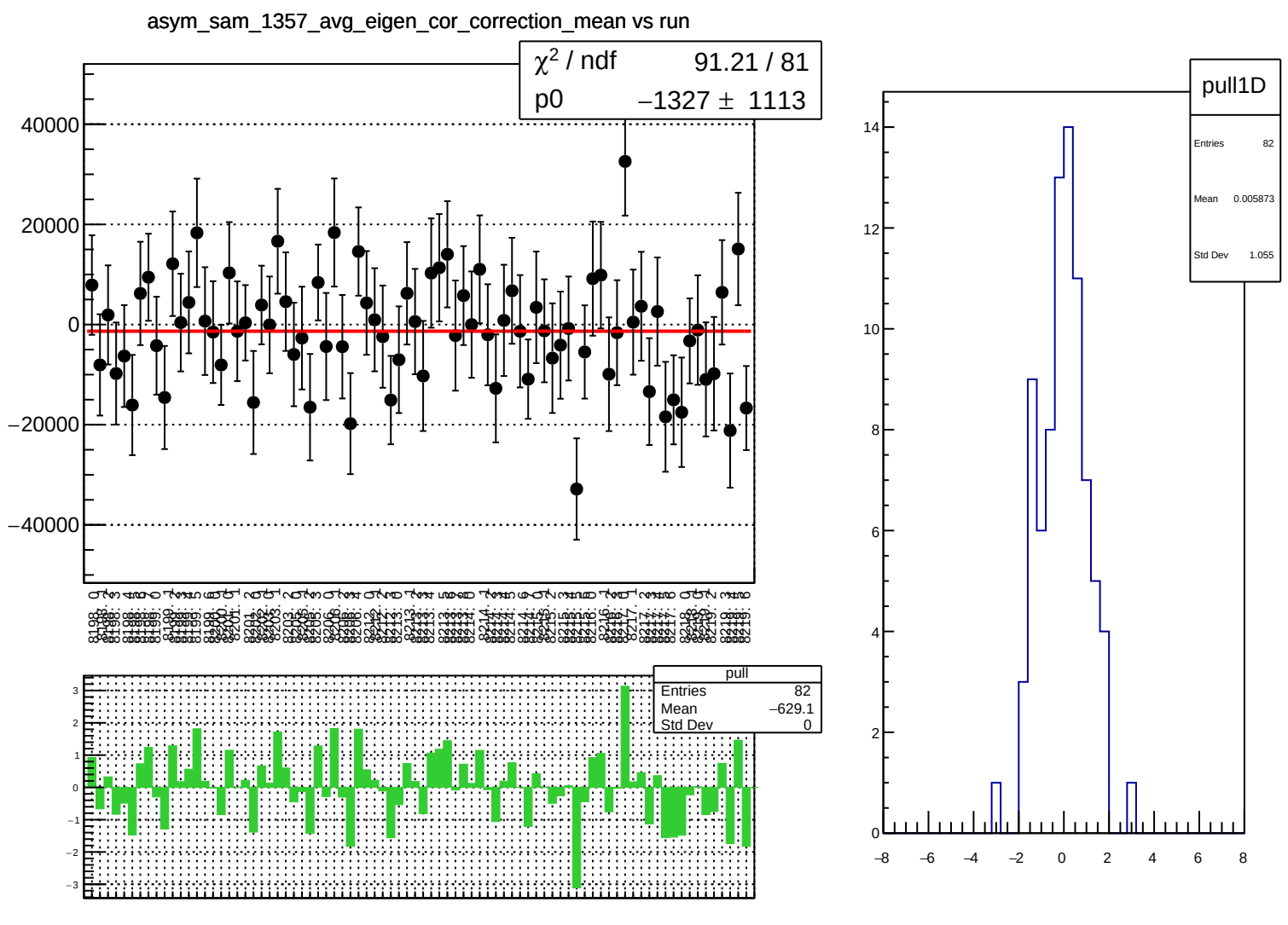

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 91.21 / 81
p0 −1327 ± 1113
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −629.1
Std Dev 0
3
2
1
0
−1
−2
−3

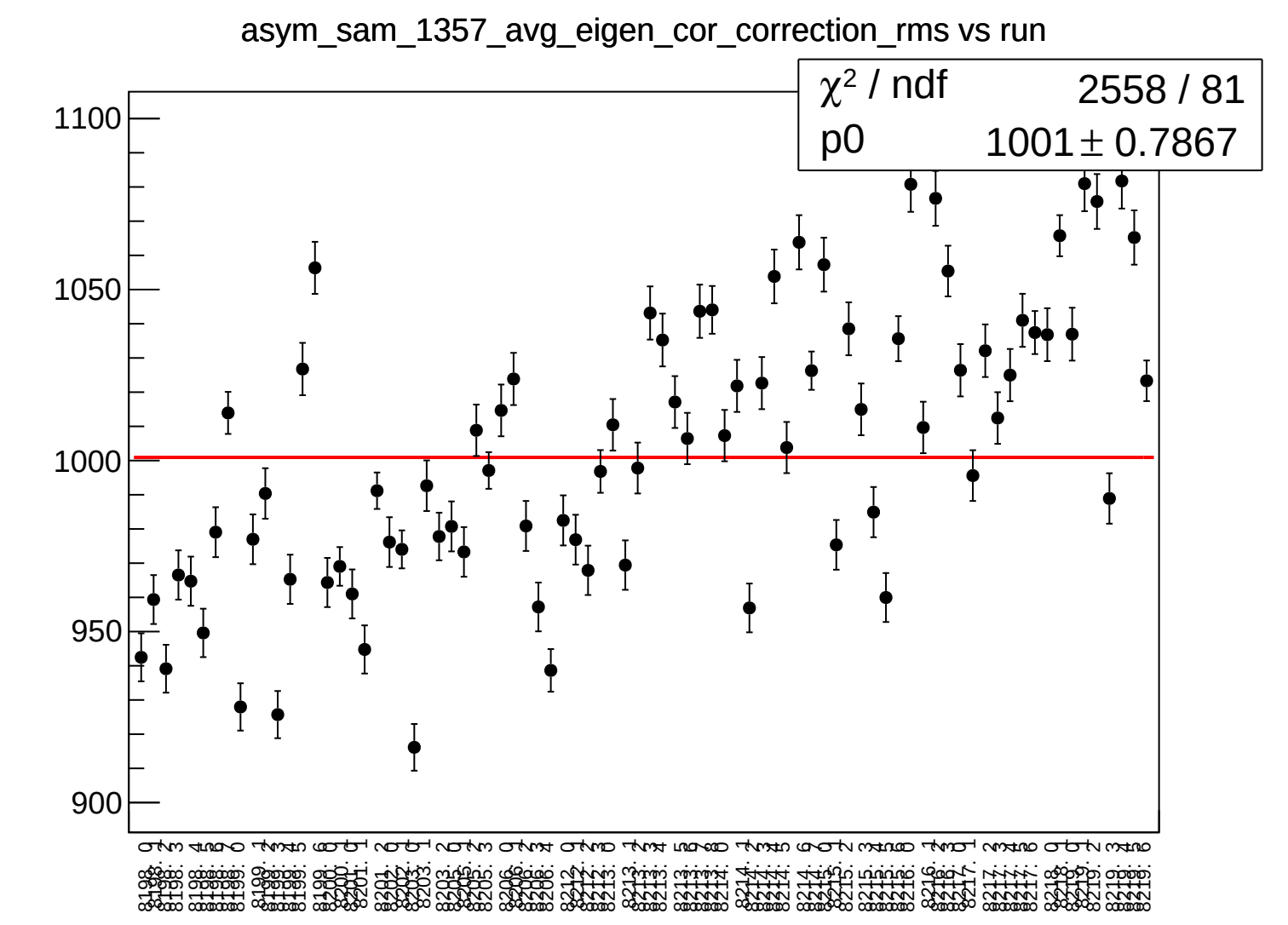

pull1D
Entries 82
Mean 0.005873
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

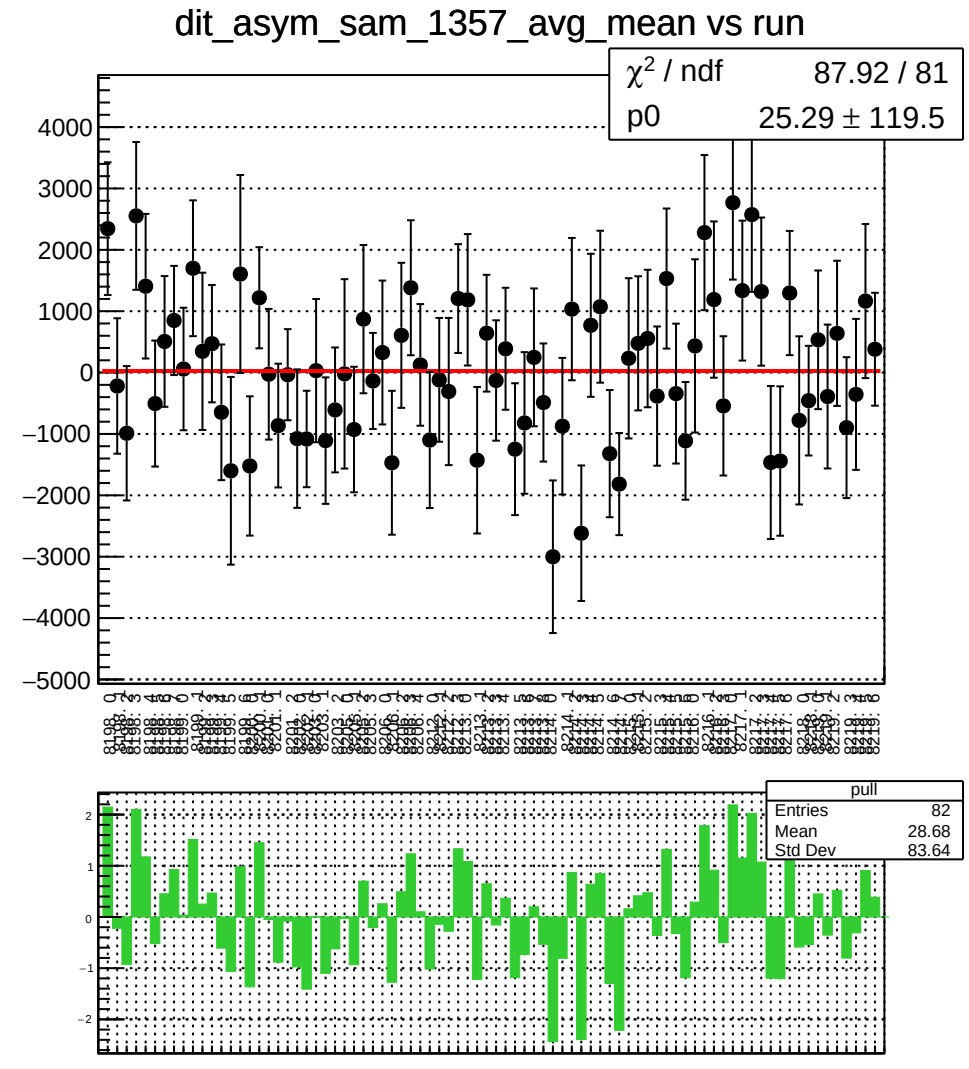

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 2558 / 81
p0 1001 ± 0.7867
1100
1050
1000
950
900

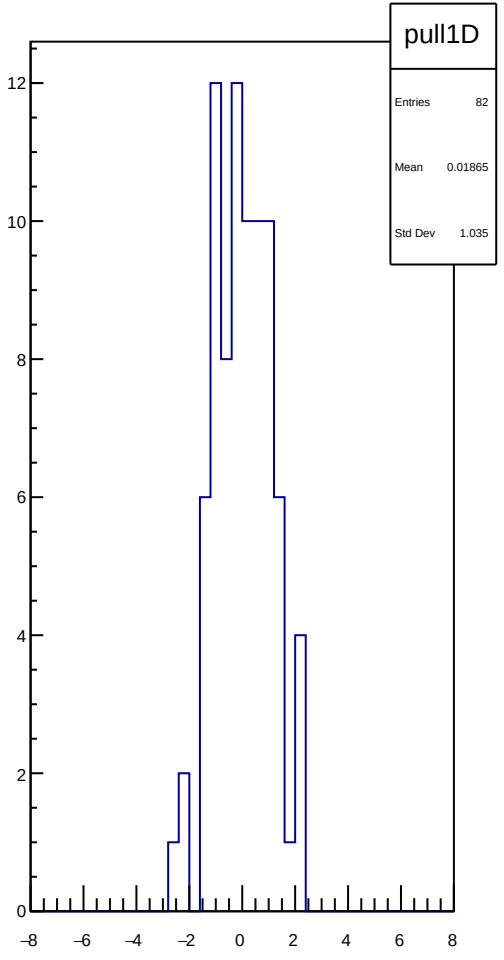

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 81.74 / 81
p0 42.5 ± 113
pull
Entries 82
Mean −117.6
Std Dev 0
pull1D
Entries 82
Mean 0.005624
Std Dev 0.9984

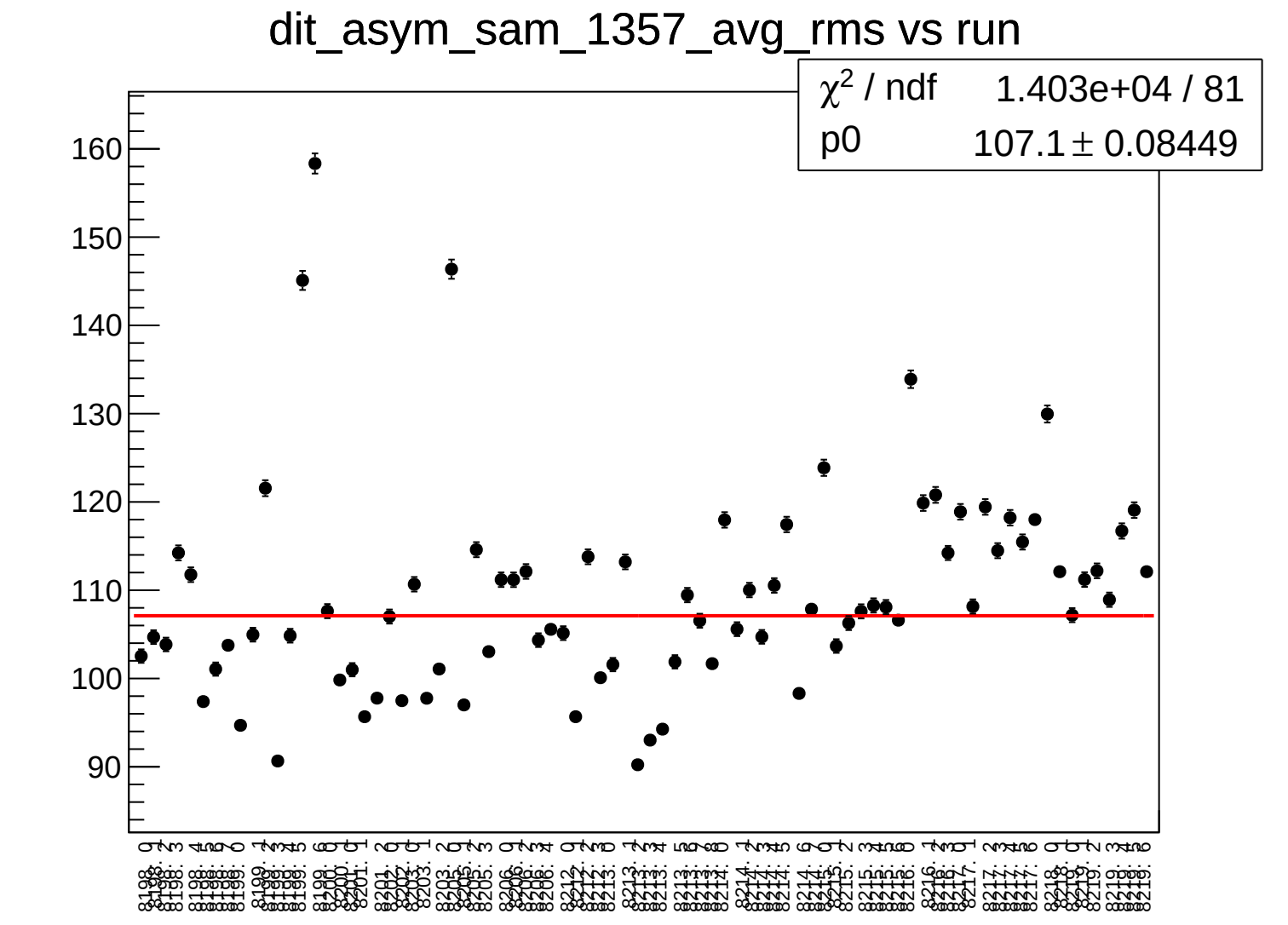

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.128e+04 / 81
p0 101.4 ± 0.07989
140
130
120
110
100
90
80

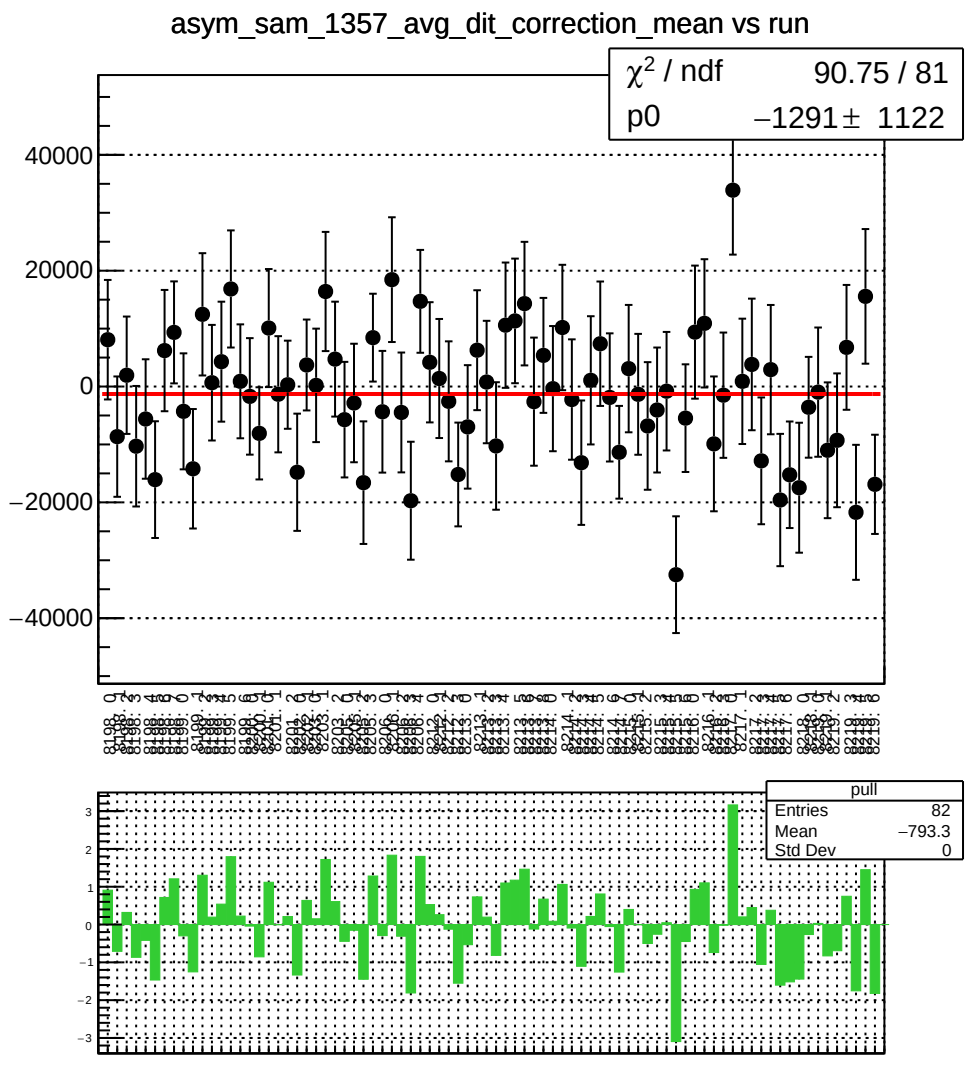

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.21 / 81
p0 −1327 ± 1113
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −629.1
Std Dev 0
pull1D
Entries 82
Mean 0.005873
Std Dev 1.055

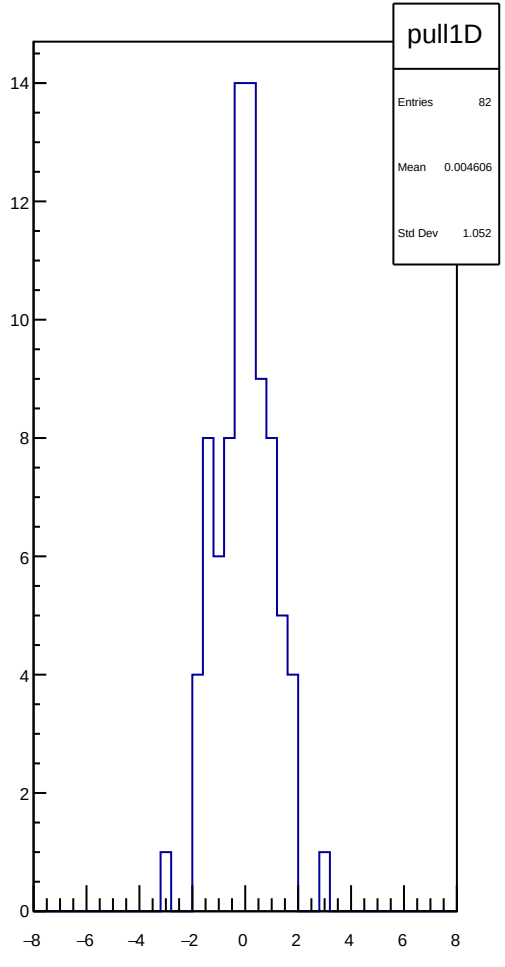

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 2558 / 81
p0 1001 ± 0.7867
1100
1050
1000
950
900

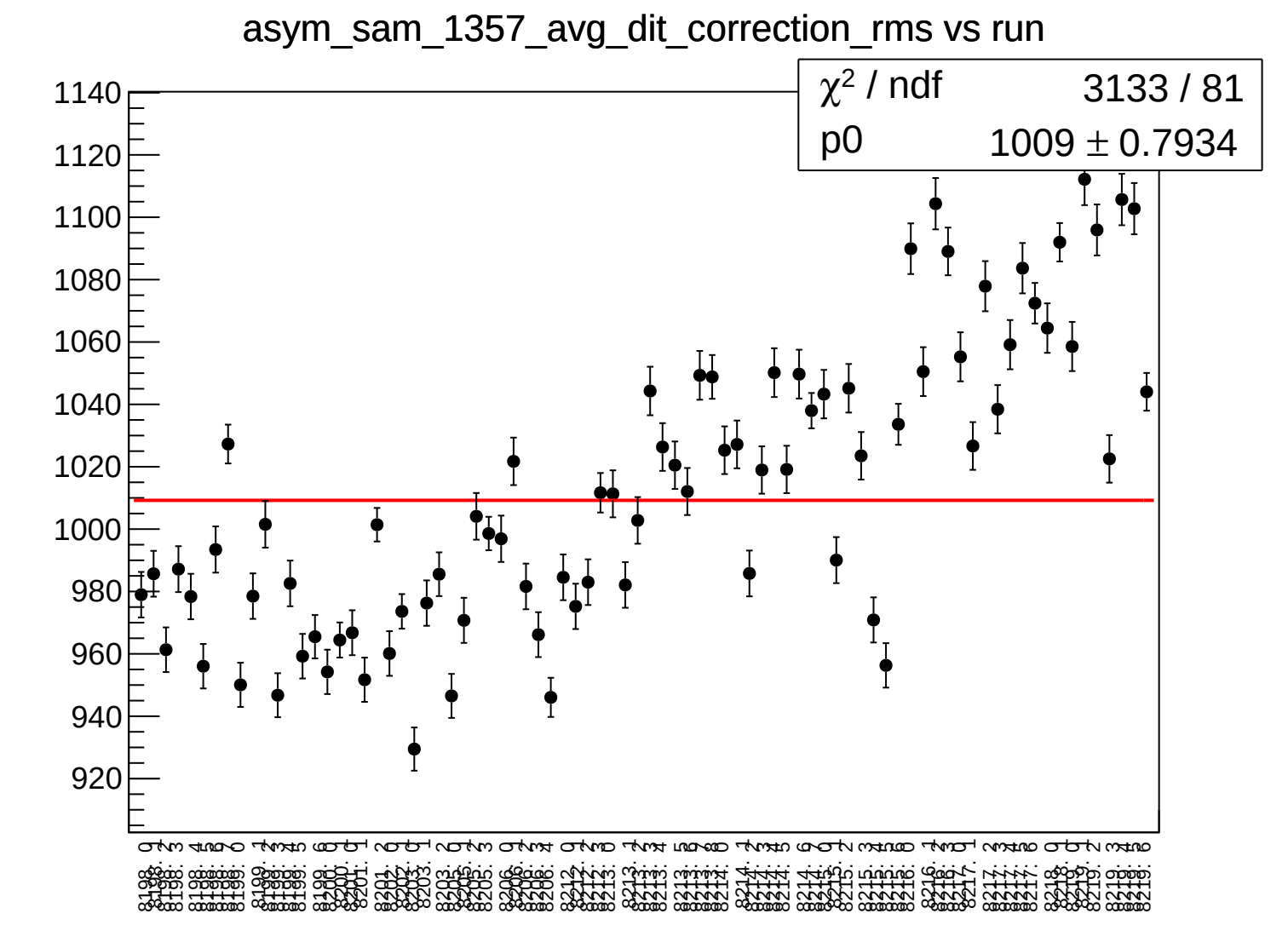

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 87.92 / 81
p0 25.29 ± 119.5
pull
Entries 82
Mean 28.68
Std Dev 83.64

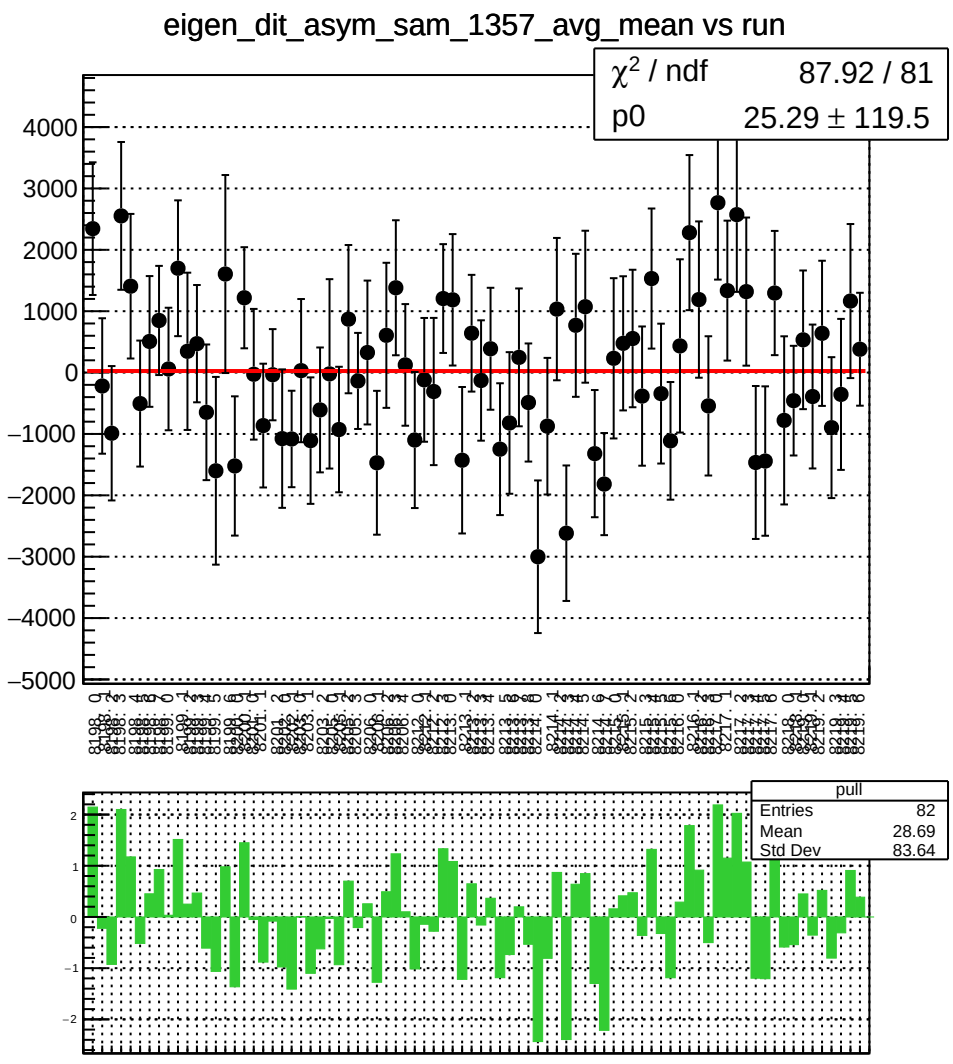

pull1D
Entries 82
Mean 0.01865
Std Dev 1.035

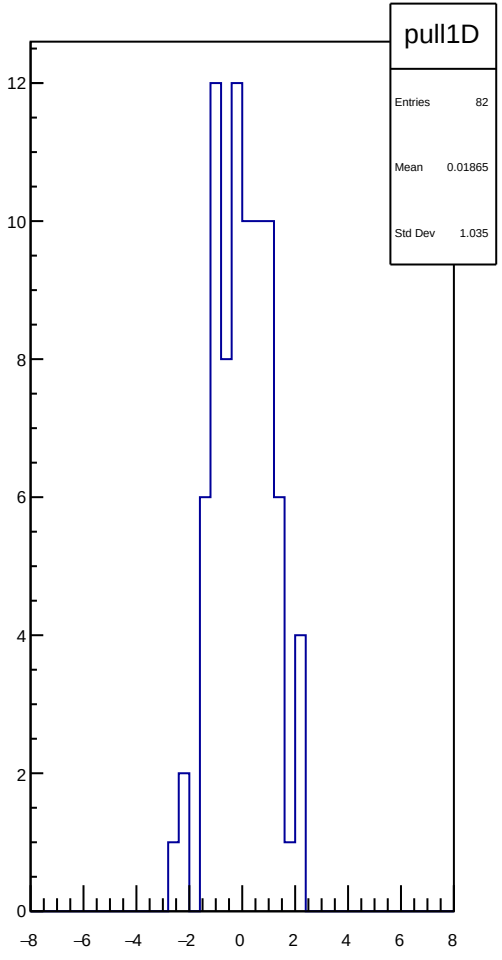

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.403e+04 / 81
p0 107.1 ± 0.08449
160
150
140
130
120
110
100
90

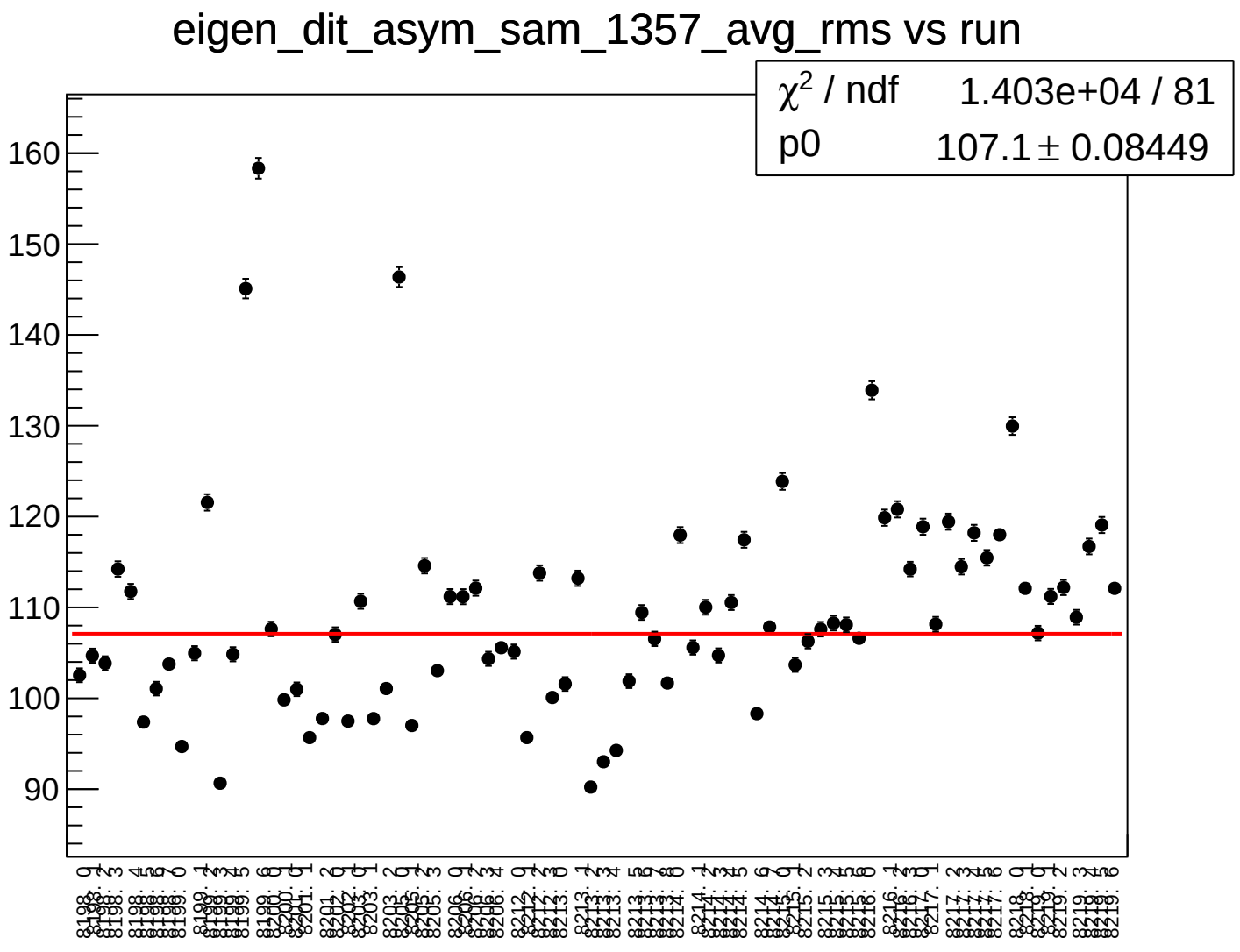

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 90.75 / 81
p0 −1291 ± 1122
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −793.3
Std Dev 0
3
2
1
0
−1
−2
−3

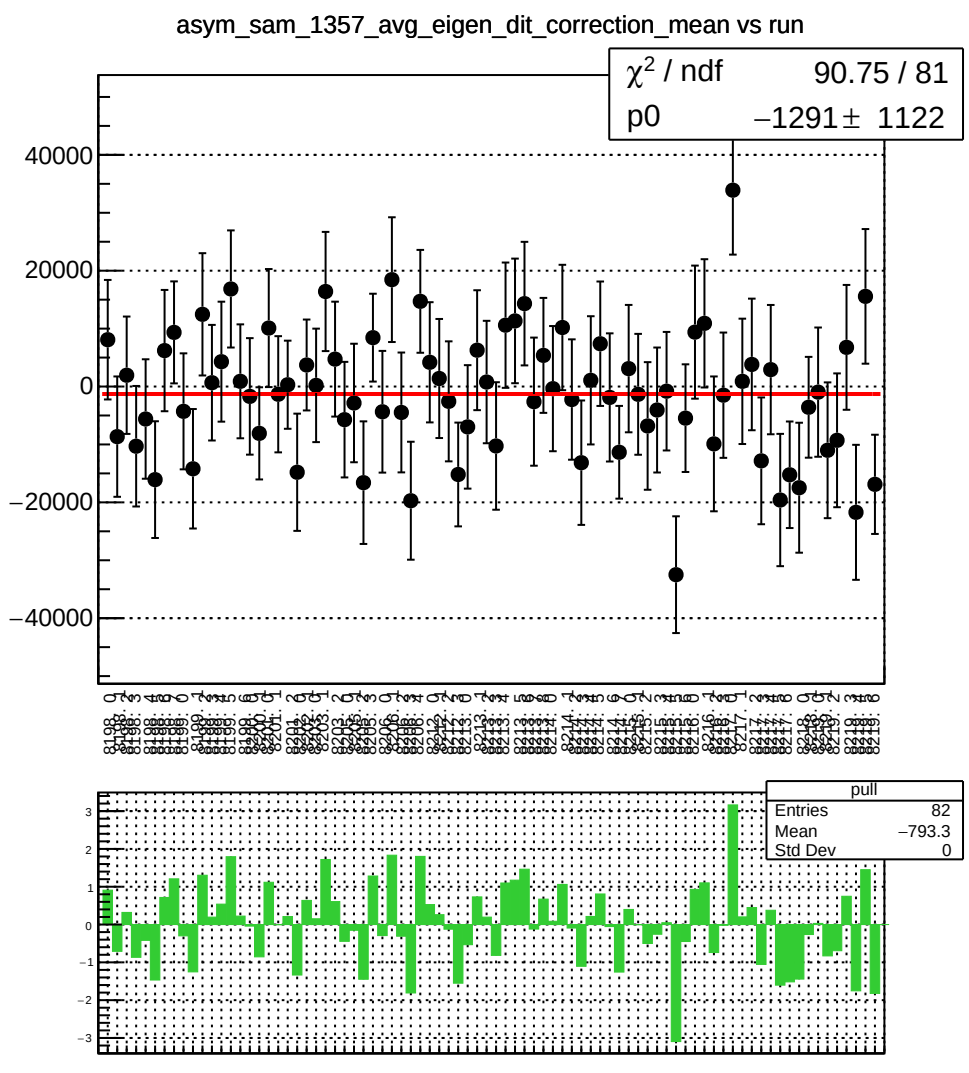

pull1D
Entries 82
Mean 0.004606
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

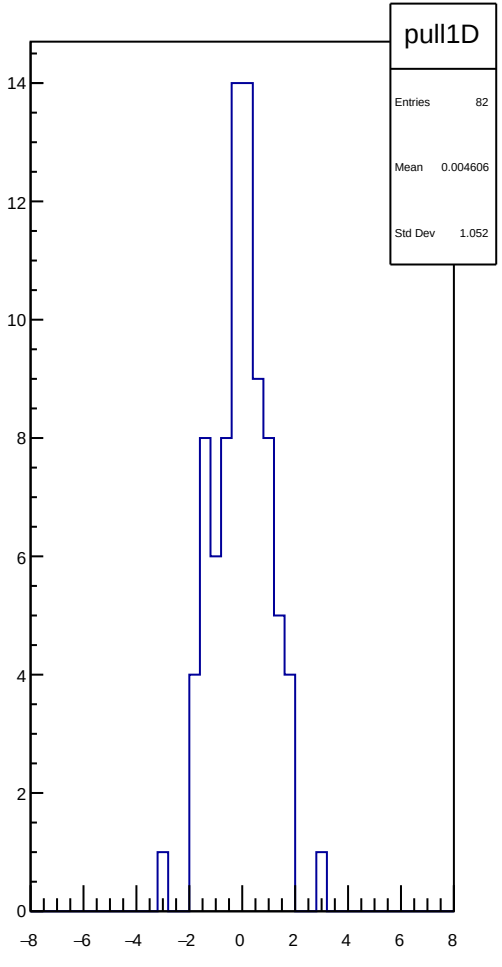

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 3133 / 81
p0 1009 ± 0.7934
1140
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

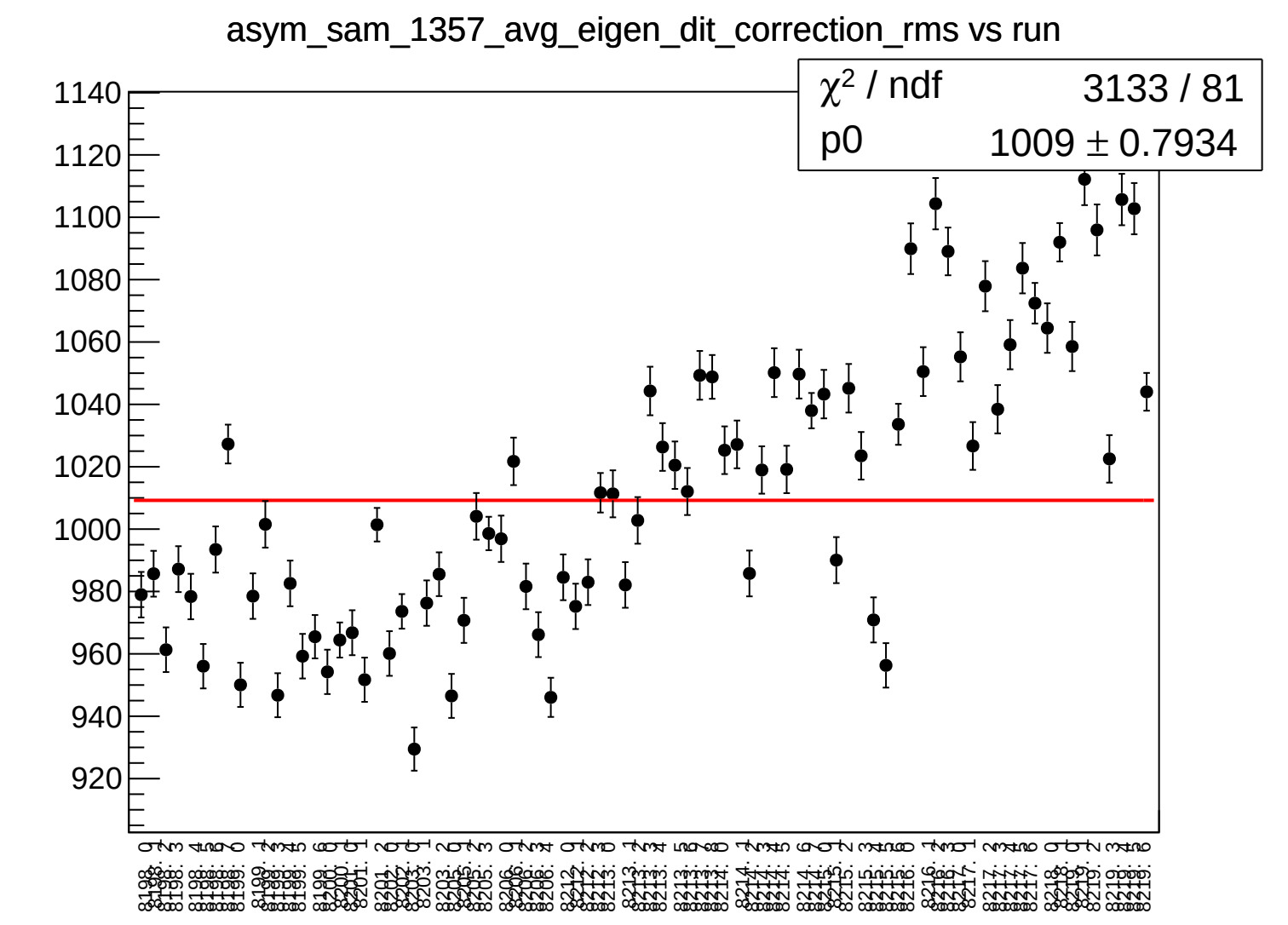

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 87.92 / 81
p0 25.29 ± 119.5
pull
Entries 82
Mean 28.69
Std Dev 83.64

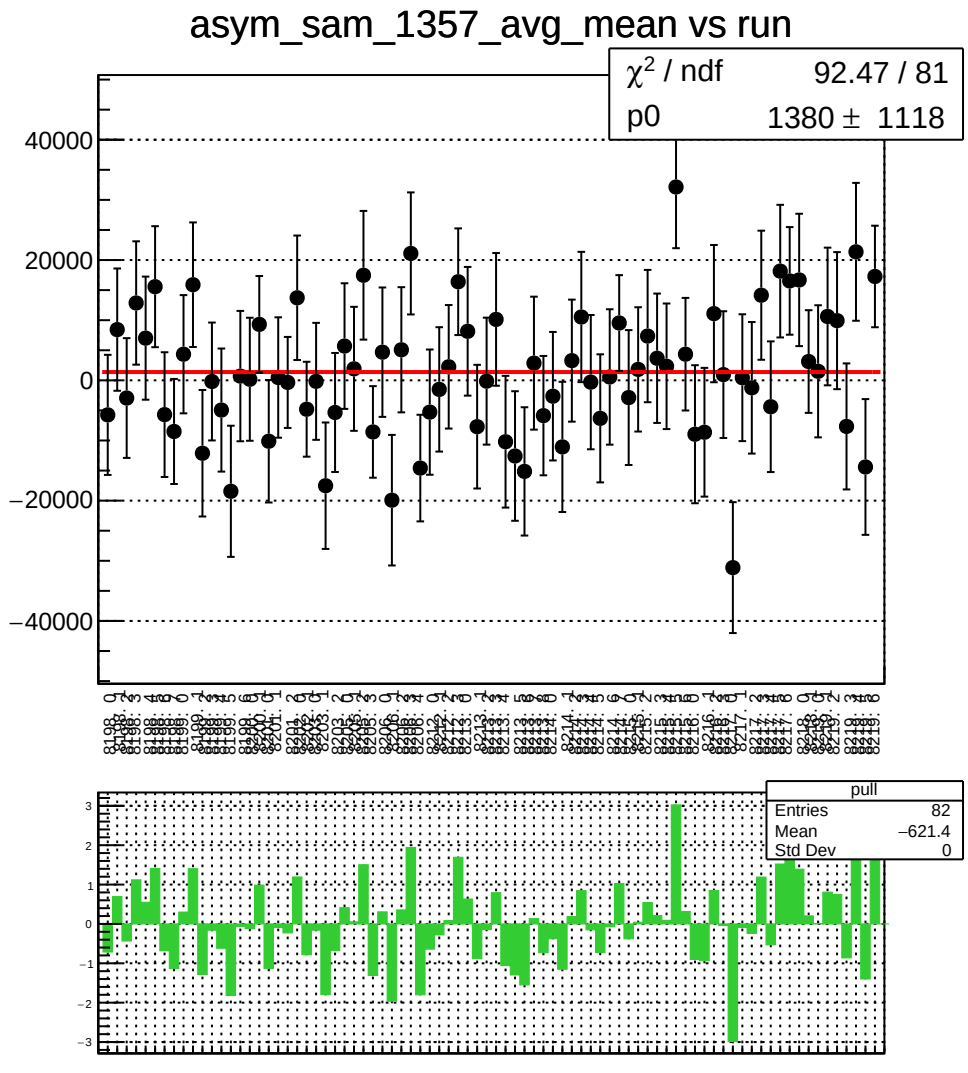

pull1D
Entries 82
Mean 0.01865
Std Dev 1.035

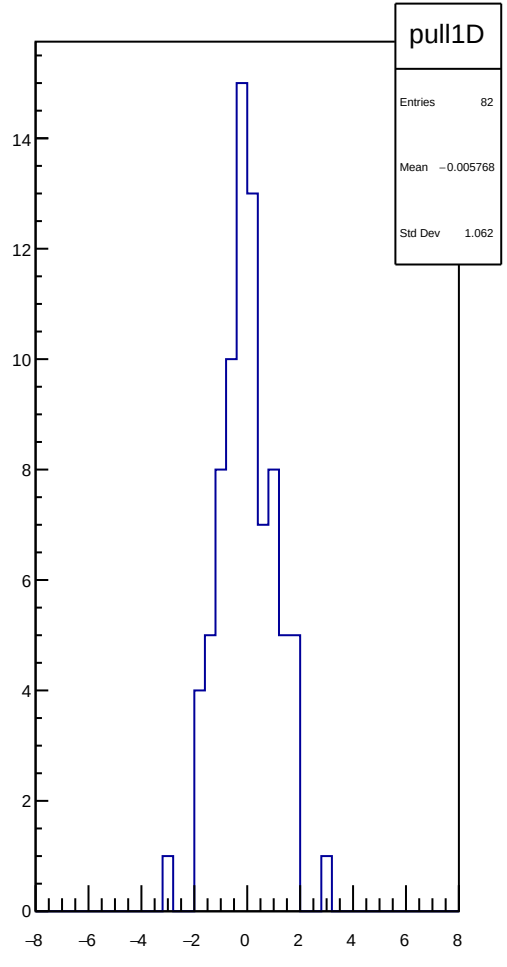

eigen_dit_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 1.403e+04 / 81
p0 107.1 ± 0.08449
160
150
140
130
120
110
100
90

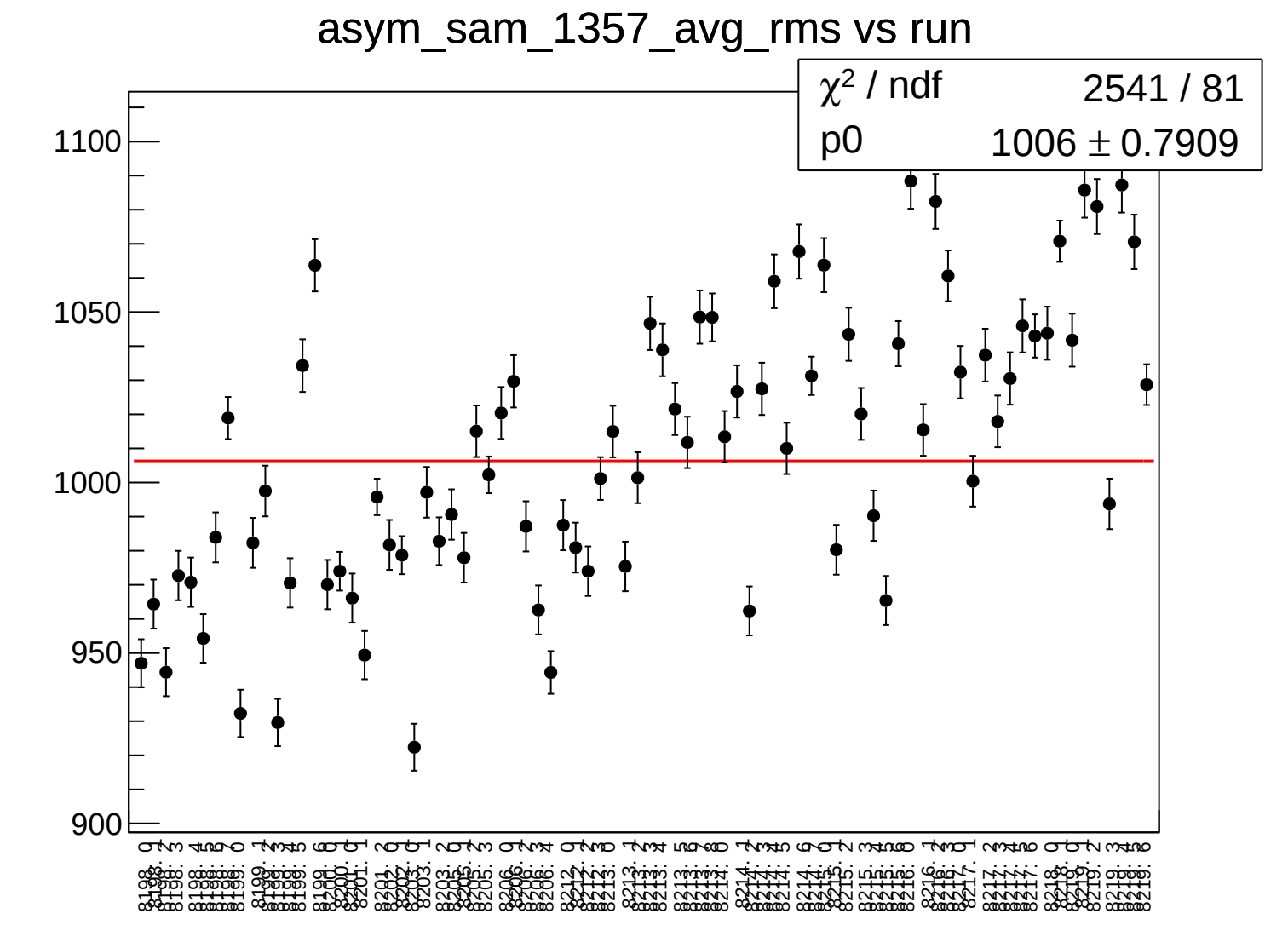

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.75 / 81
p0 −1291 ± 1122
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −793.3
Std Dev 0
3
2
1
0
−1
−2
−3

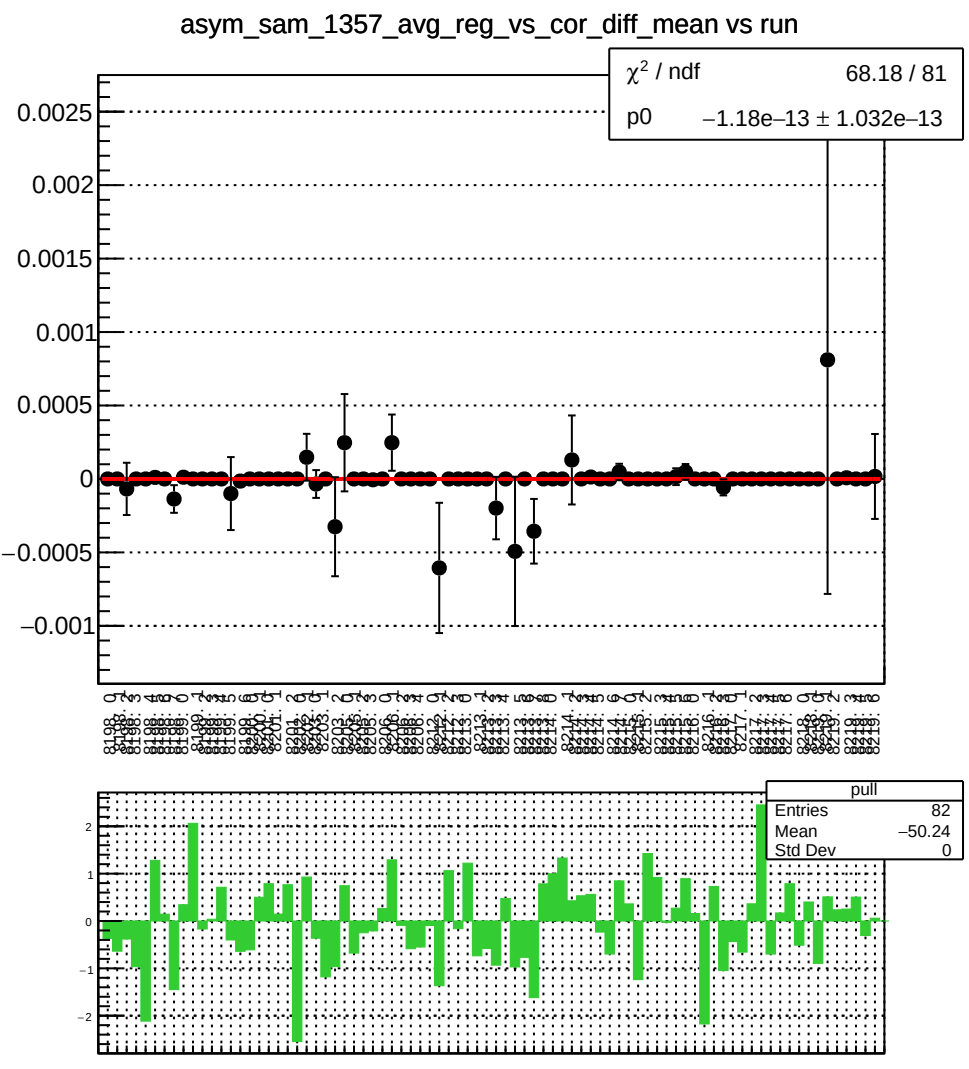

pull1D
Entries 82
Mean 0.004606
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

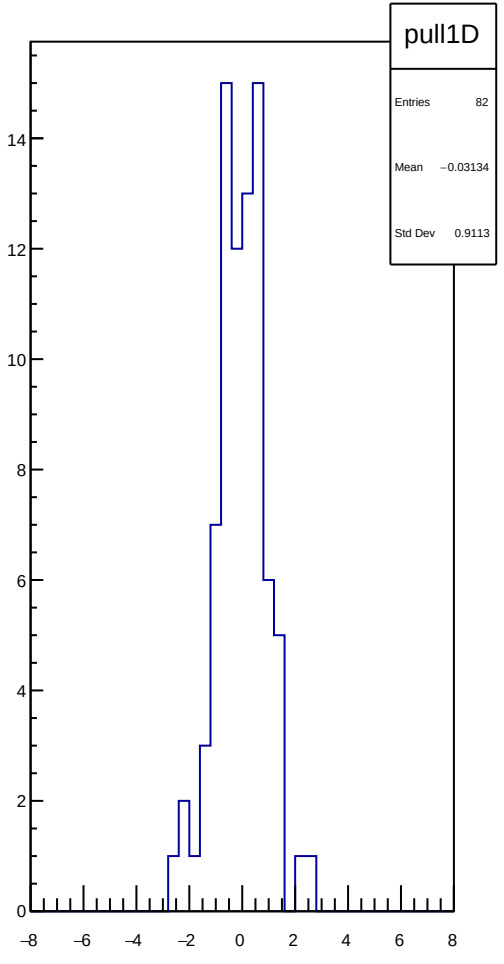

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 3133 / 81
p0 1009 ± 0.7934
1140
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

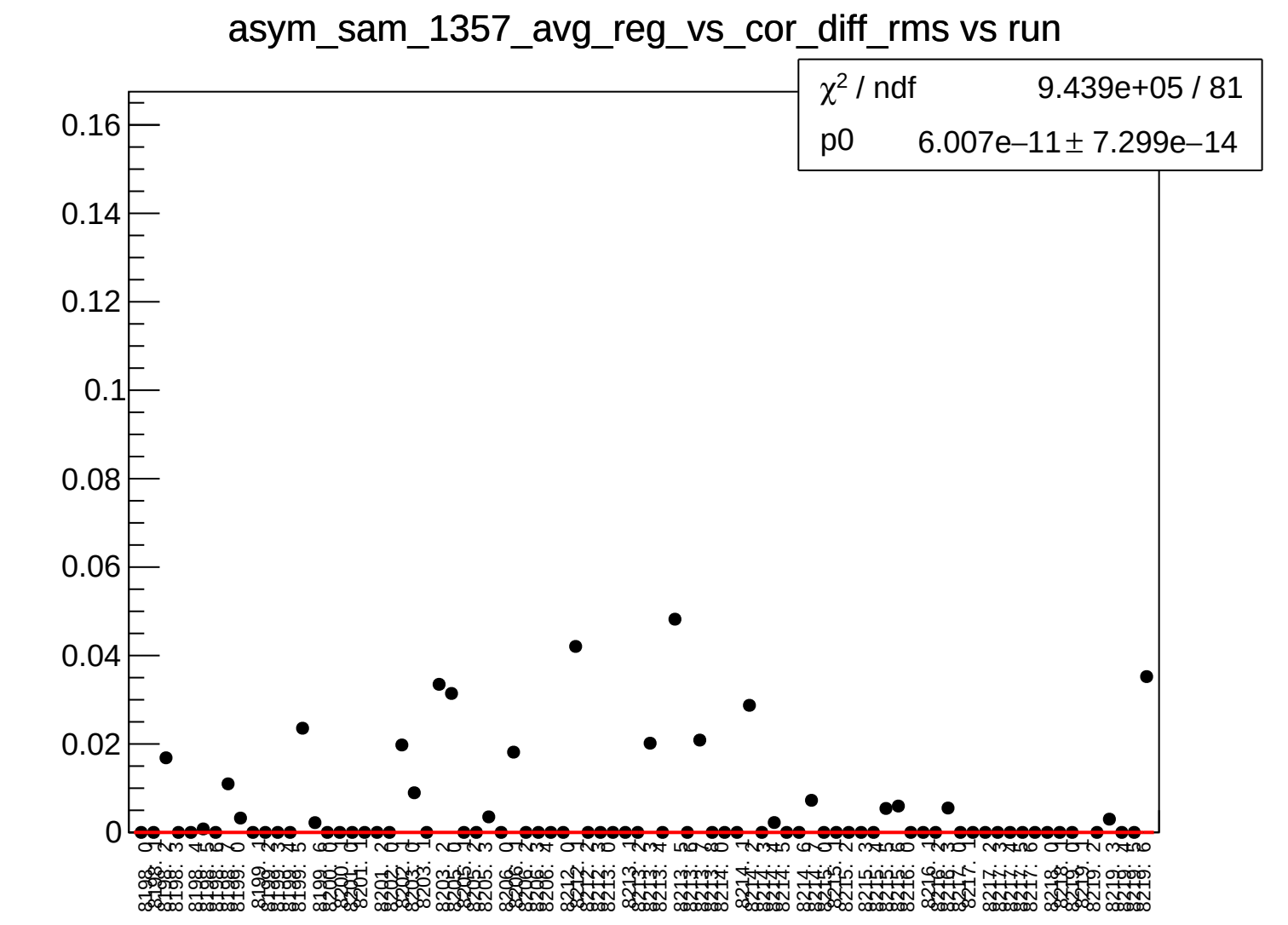

asym_sam_1357_avg_mean vs run
χ² / ndf 92.47 / 81
p0 1380 ± 1118
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −621.4
Std Dev 0
3
2
1
0
−1
−2
−3

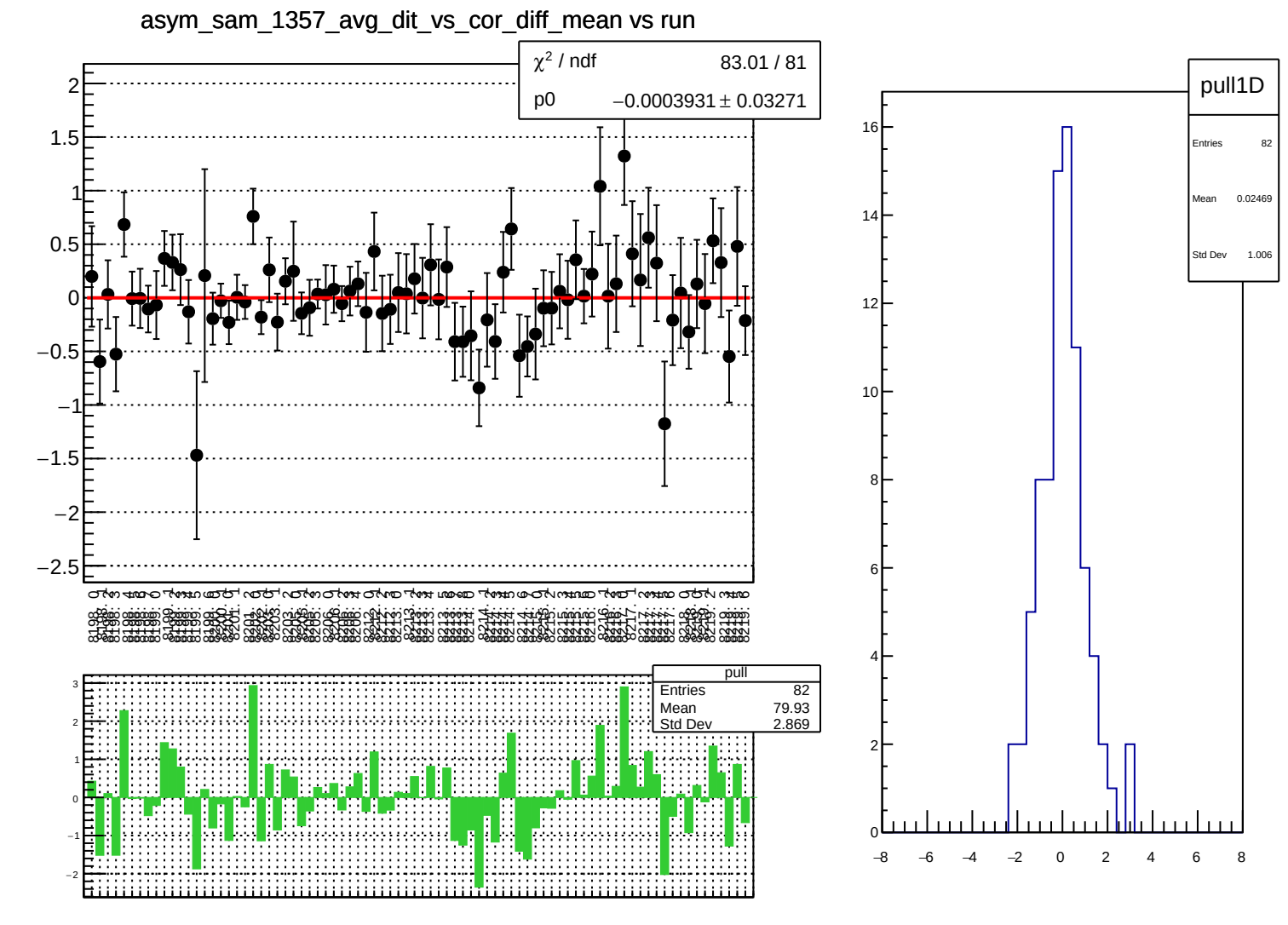

pull1D
Entries 82
Mean −0.005768
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

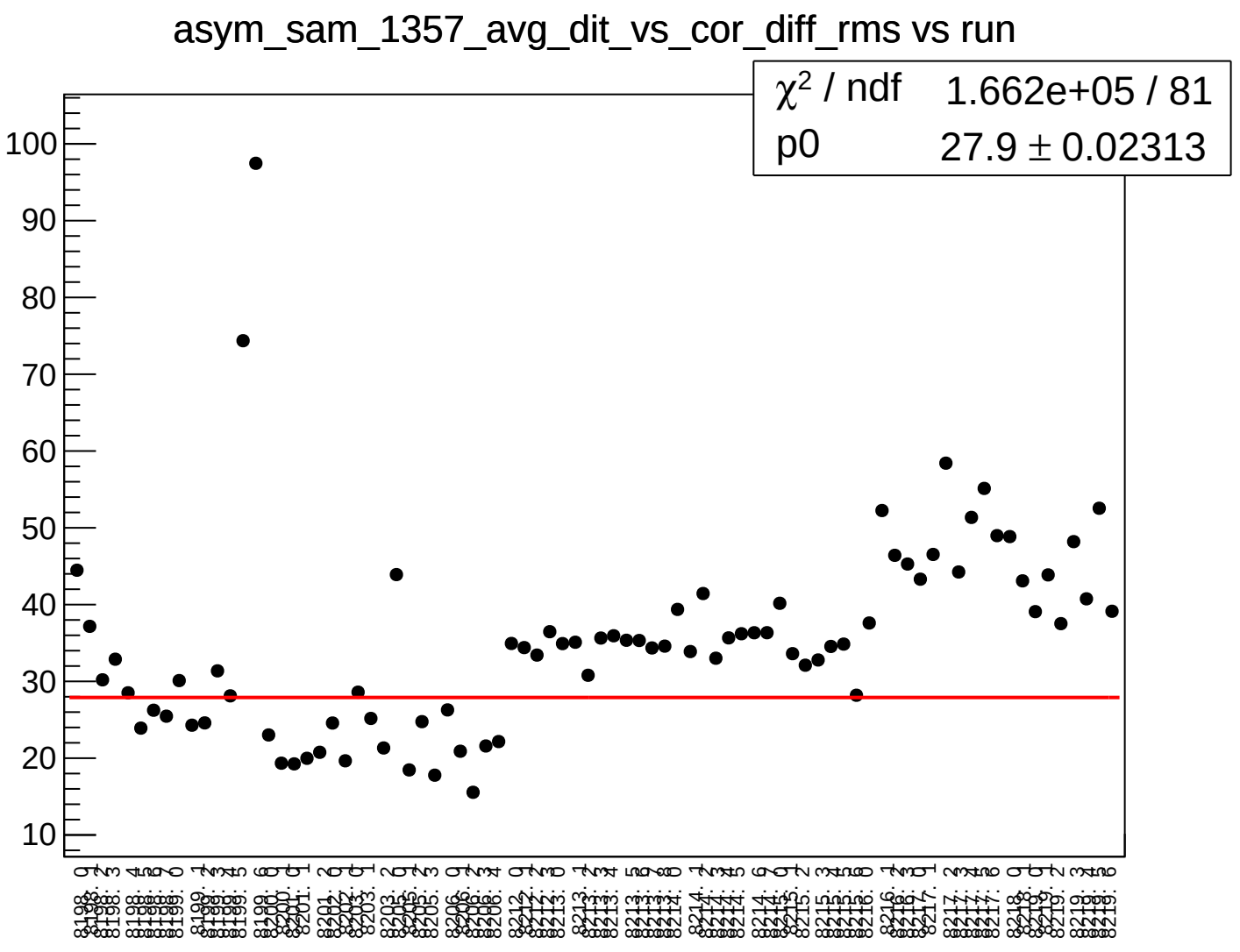

asym_sam_1357_avg_rms vs run
χ² / ndf 2541 / 81
p0 1006 ± 0.7909
1100
1050
1000
950
900

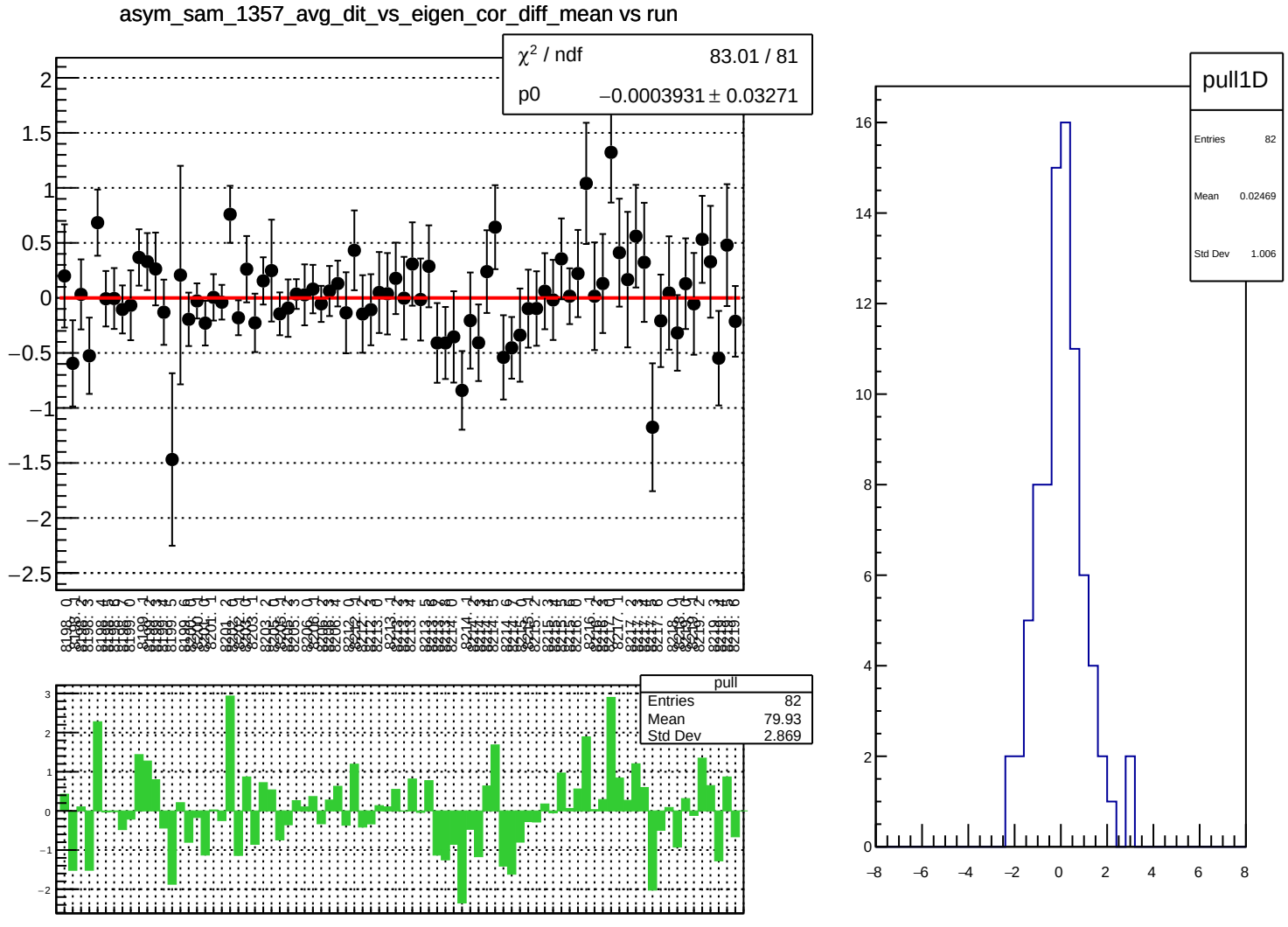

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.18 / 81
p0 −1.18e−13 ± 1.032e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 82
Mean −50.24
Std Dev 0
2
1
0
−1
−2

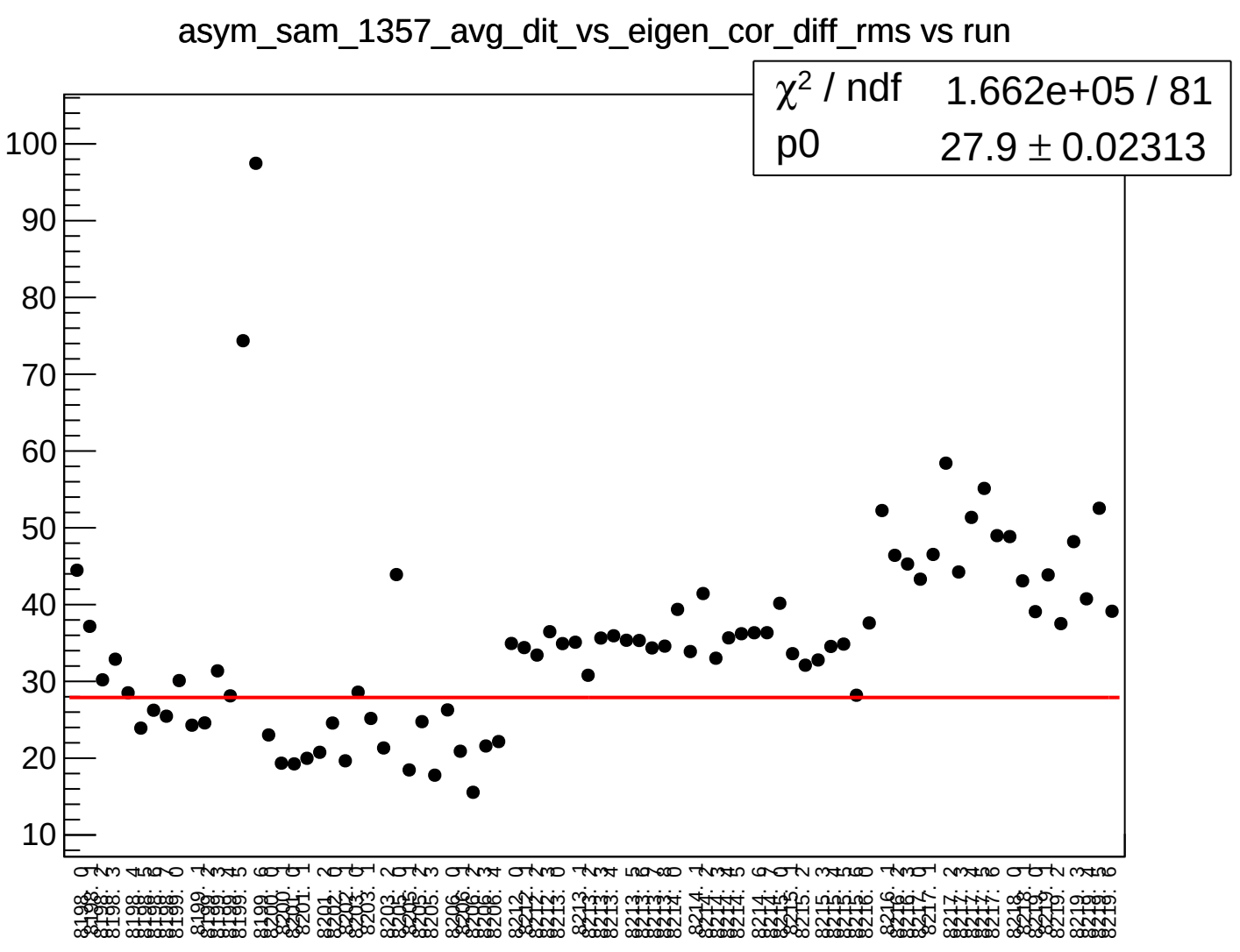

pull1D
Entries 82
Mean −0.03134
Std Dev 0.9113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

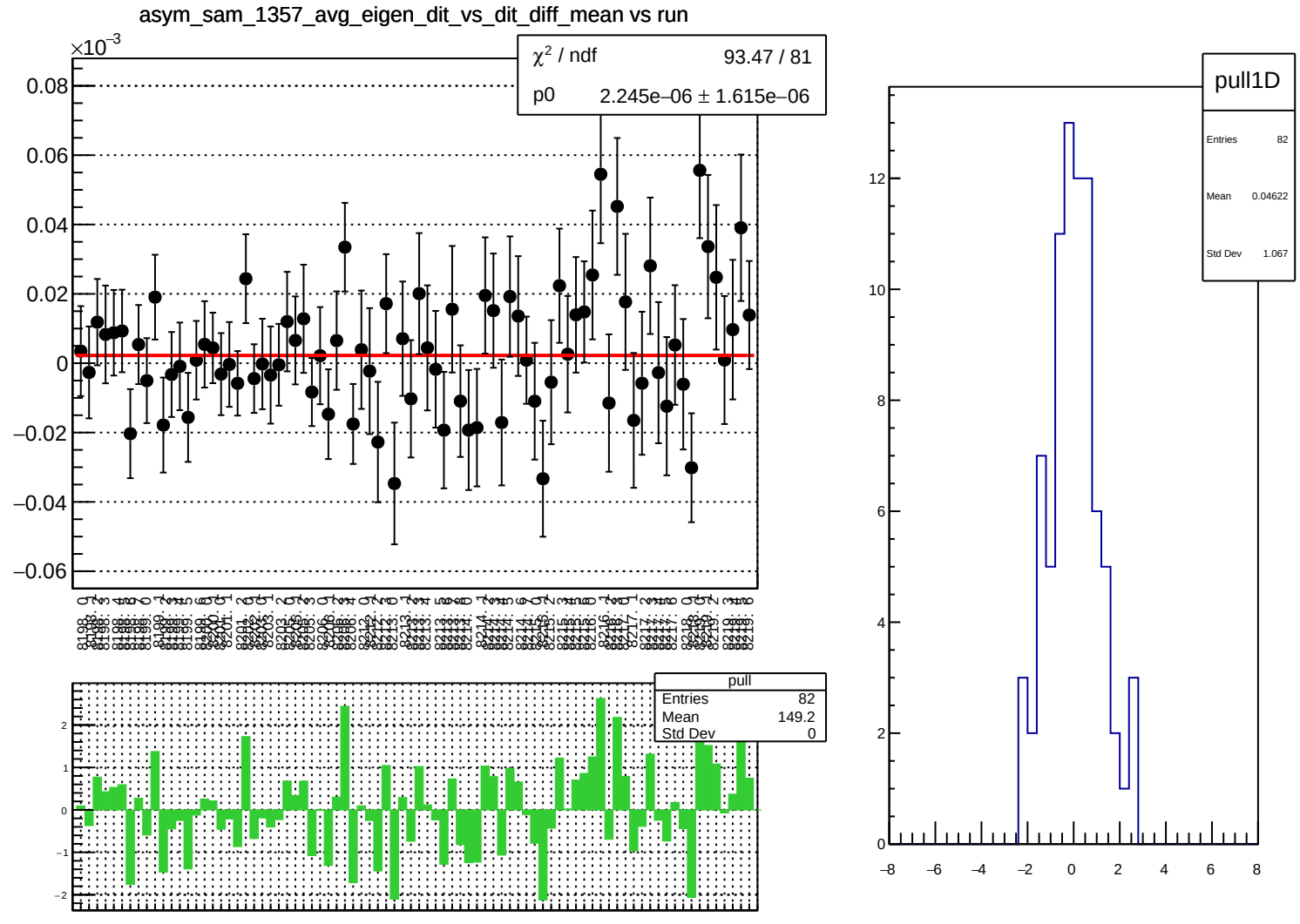

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.439e+05 / 81
p0 6.007e−11 ± 7.299e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

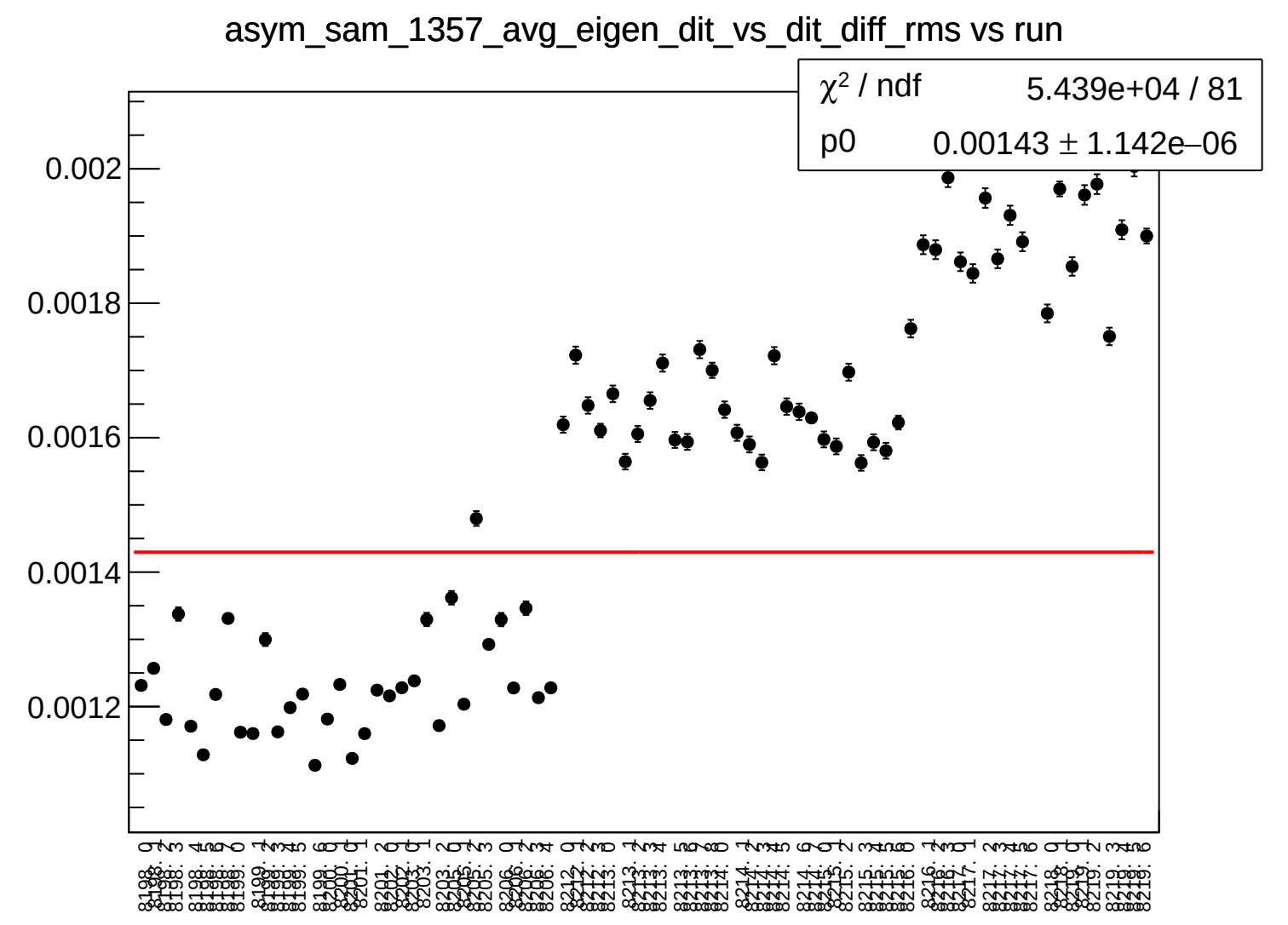

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.01 / 81
p0 −0.0003931 ± 0.03271
pull
Entries 82
Mean 79.93
Std Dev 2.869
pull1D
Entries 82
Mean 0.02469
Std Dev 1.006

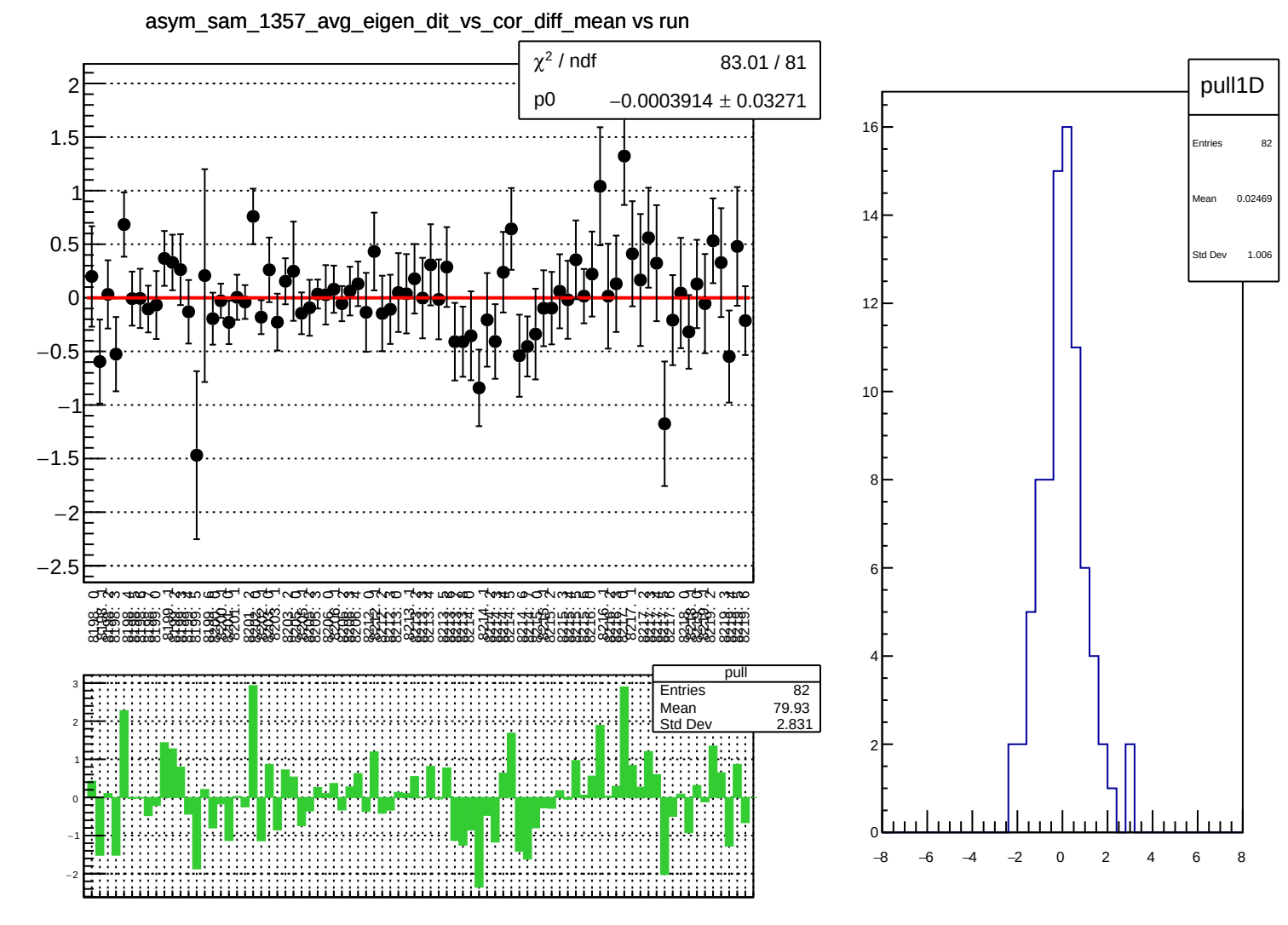

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.662e+05 / 81
p0 27.9 ± 0.02313
100
90
80
70
60
50
40
30
20
10

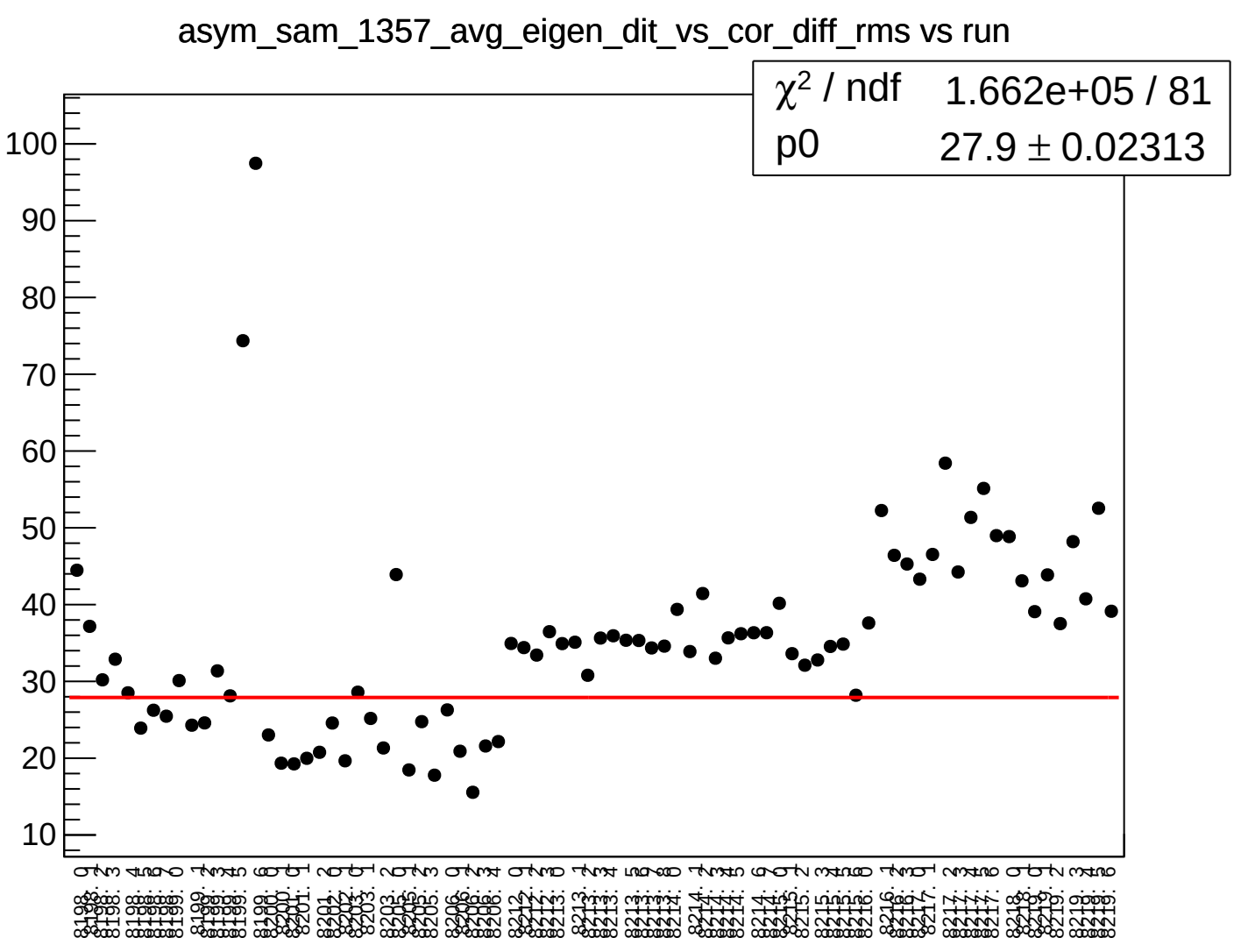

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.01 / 81
p0 −0.0003931 ± 0.03271
pull
Entries 82
Mean 79.93
Std Dev 2.869
pull1D
Entries 82
Mean 0.02469
Std Dev 1.006

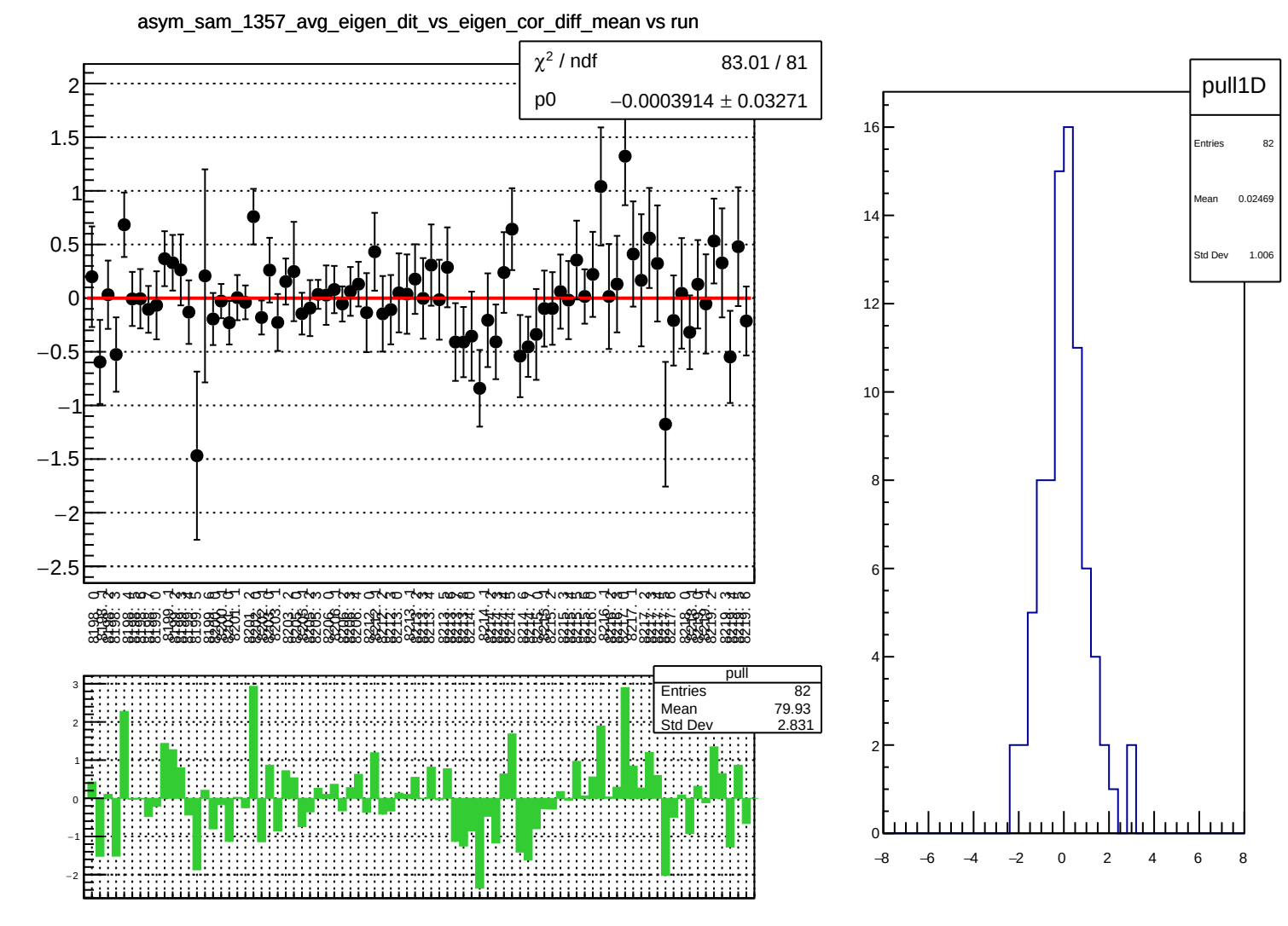

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.662e+05 / 81
p0 27.9 ± 0.02313
100
90
80
70
60
50
40
30
20
10

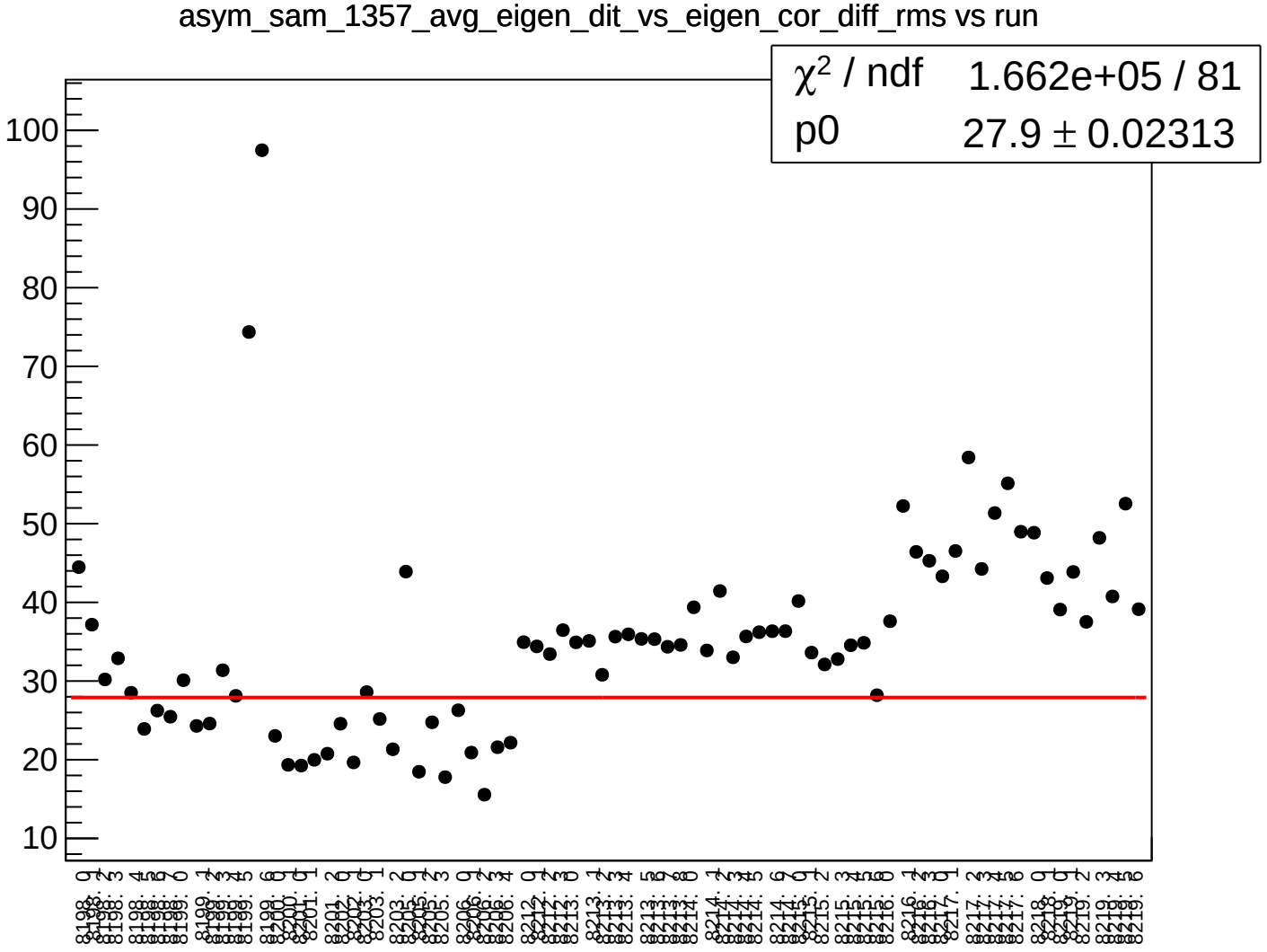

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.47 / 81
p0 2.245e−06 ± 1.615e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 82
Mean 149.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.04622
Std Dev 1.067
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

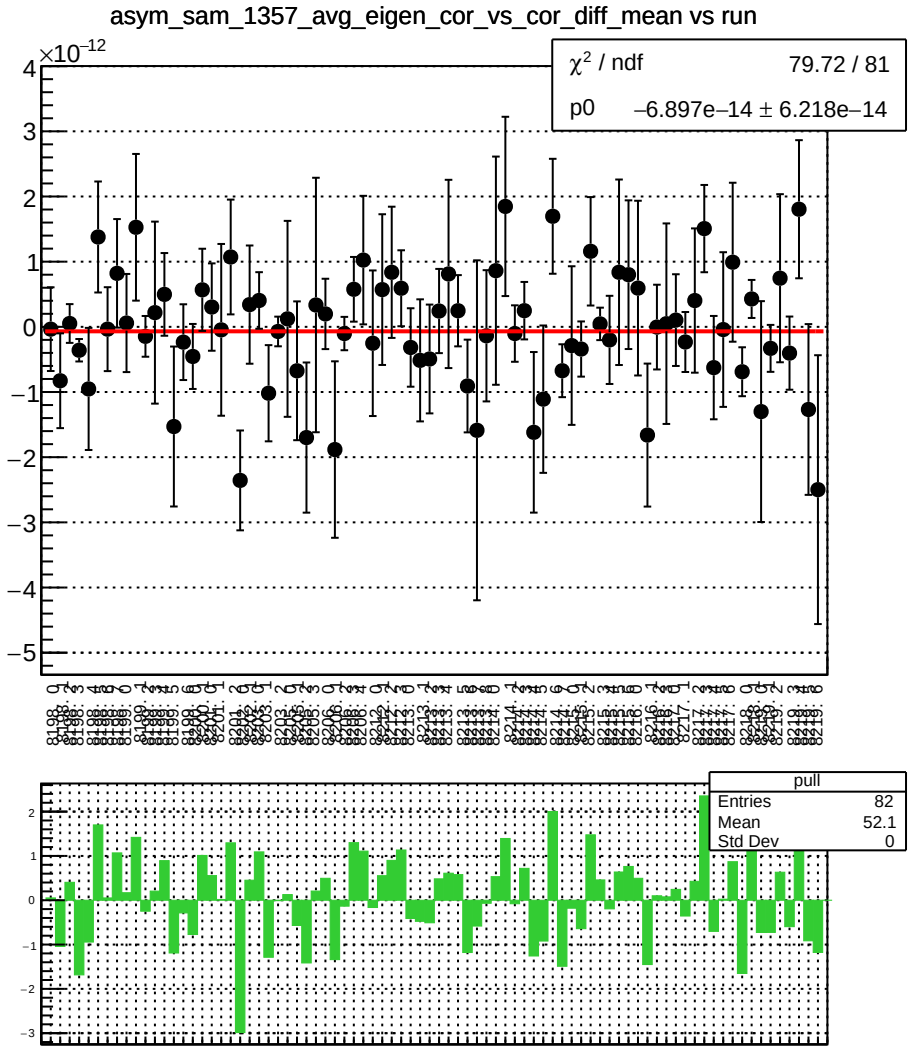

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.439e+04 / 81
p0 0.00143 ± 1.142e−06
0.002
0.0018
0.0016
0.0014
0.0012

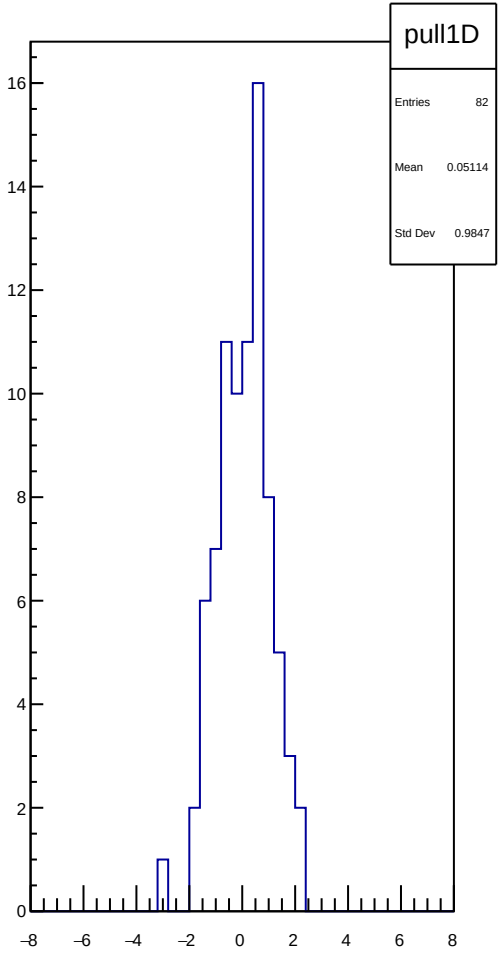

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.01 / 81
p0 −0.0003914 ± 0.03271
pull
Entries 82
Mean 79.93
Std Dev 2.831
pull1D
Entries 82
Mean 0.02469
Std Dev 1.006

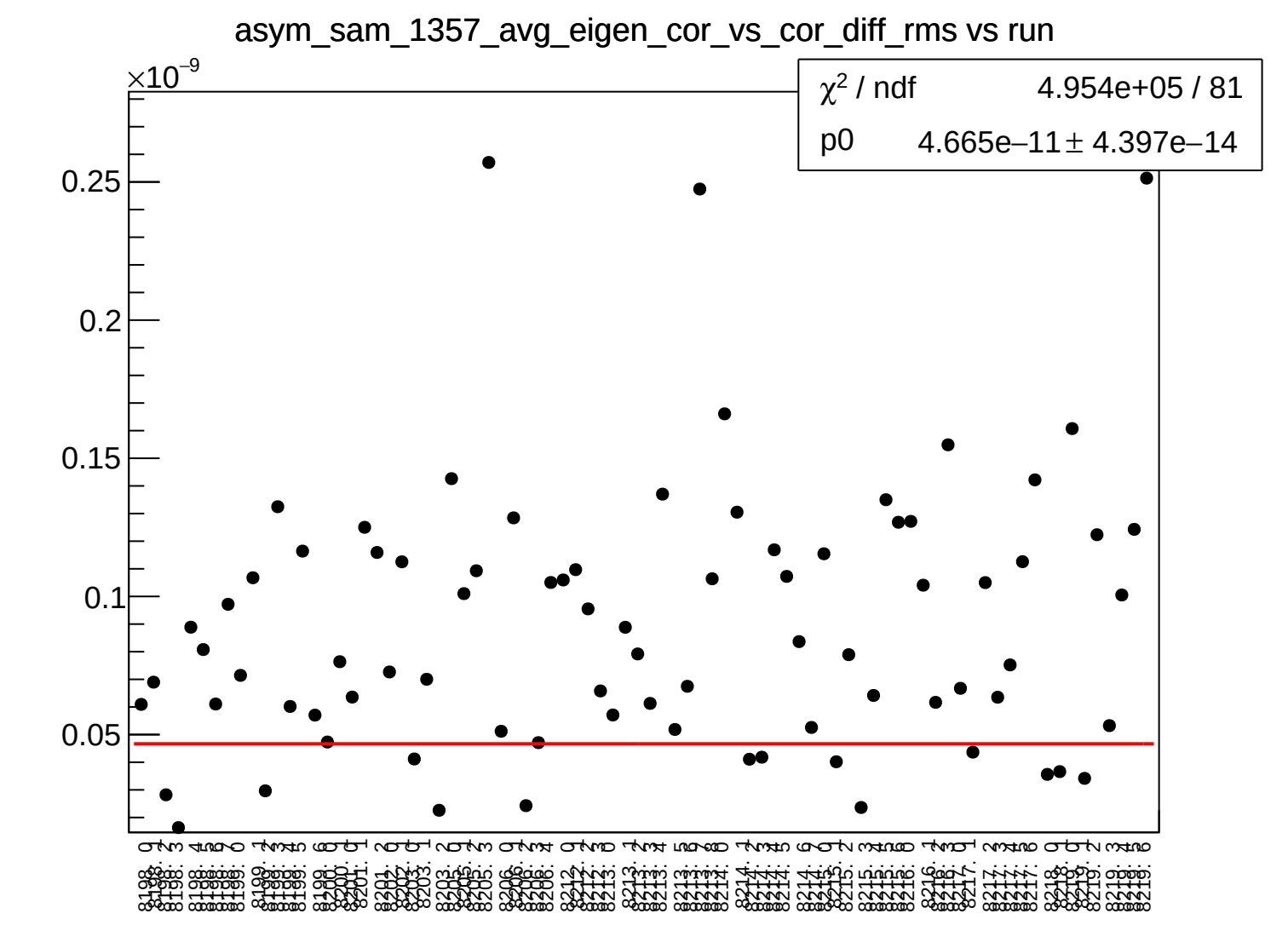

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.662e+05 / 81
p0 27.9 ± 0.02313
100
90
80
70
60
50
40
30
20
10

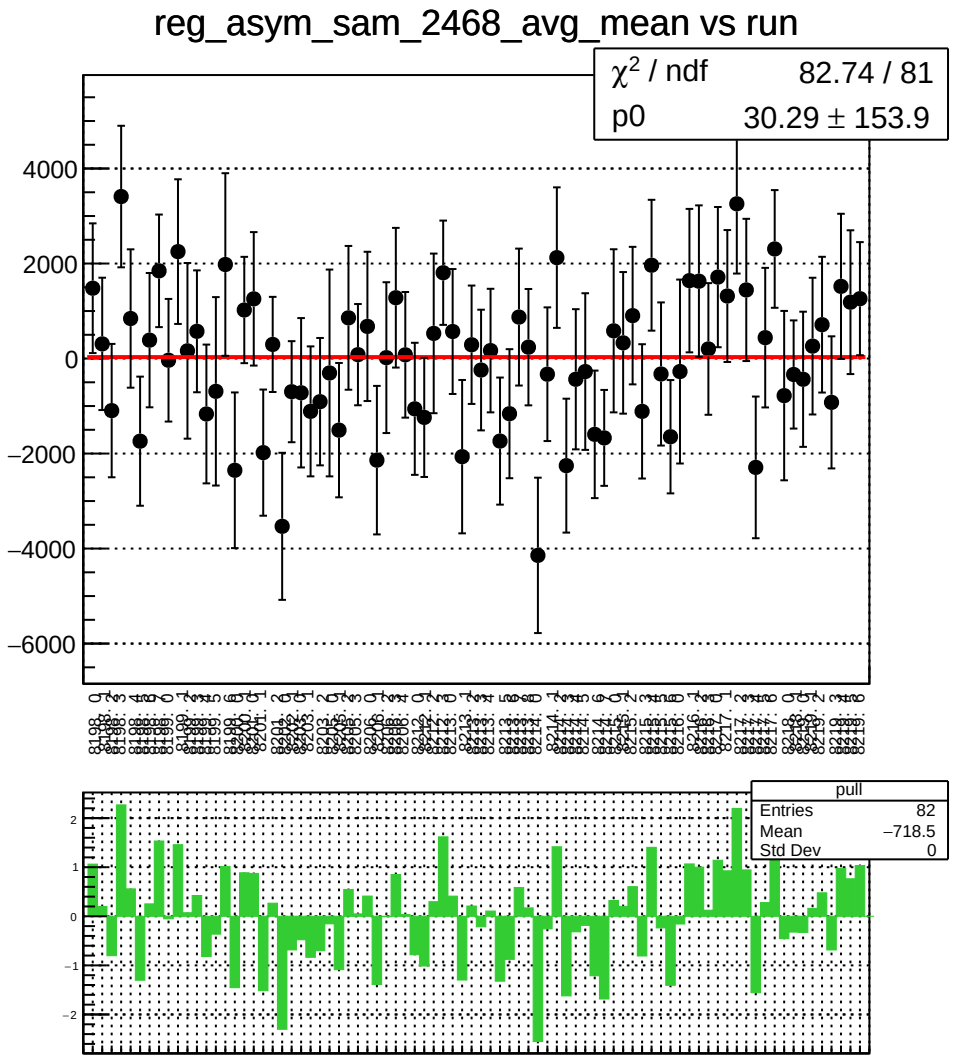

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.01 / 81
p0 −0.0003914 ± 0.03271
pull
Entries 82
Mean 79.93
Std Dev 2.831
pull1D
Entries 82
Mean 0.02469
Std Dev 1.006

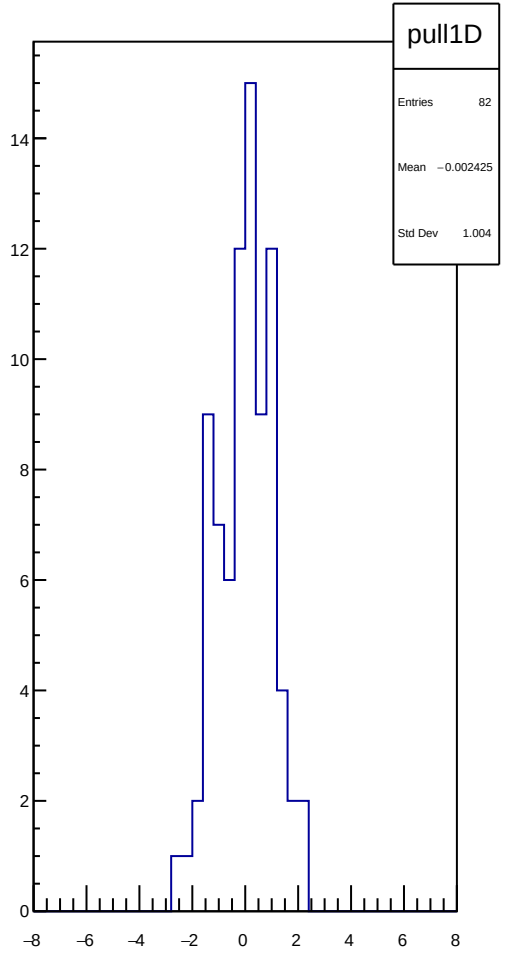

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.662e+05 / 81
p0 27.9 ± 0.02313
100
90
80
70
60
50
40
30
20
10

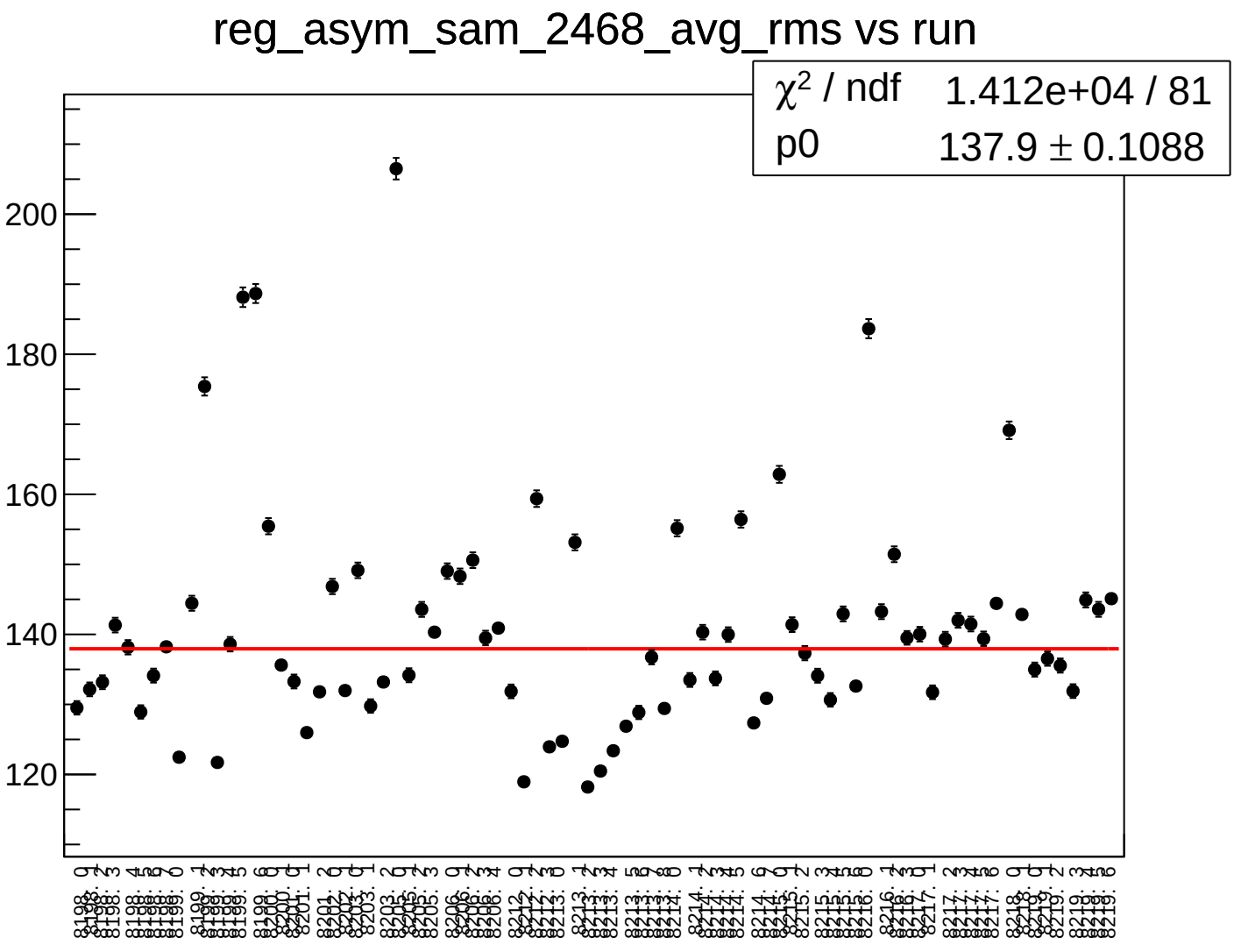

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 79.72 / 81
p0 −6.897e−14 ± 6.218e−14
pull
Entries 82
Mean 52.1
Std Dev 0

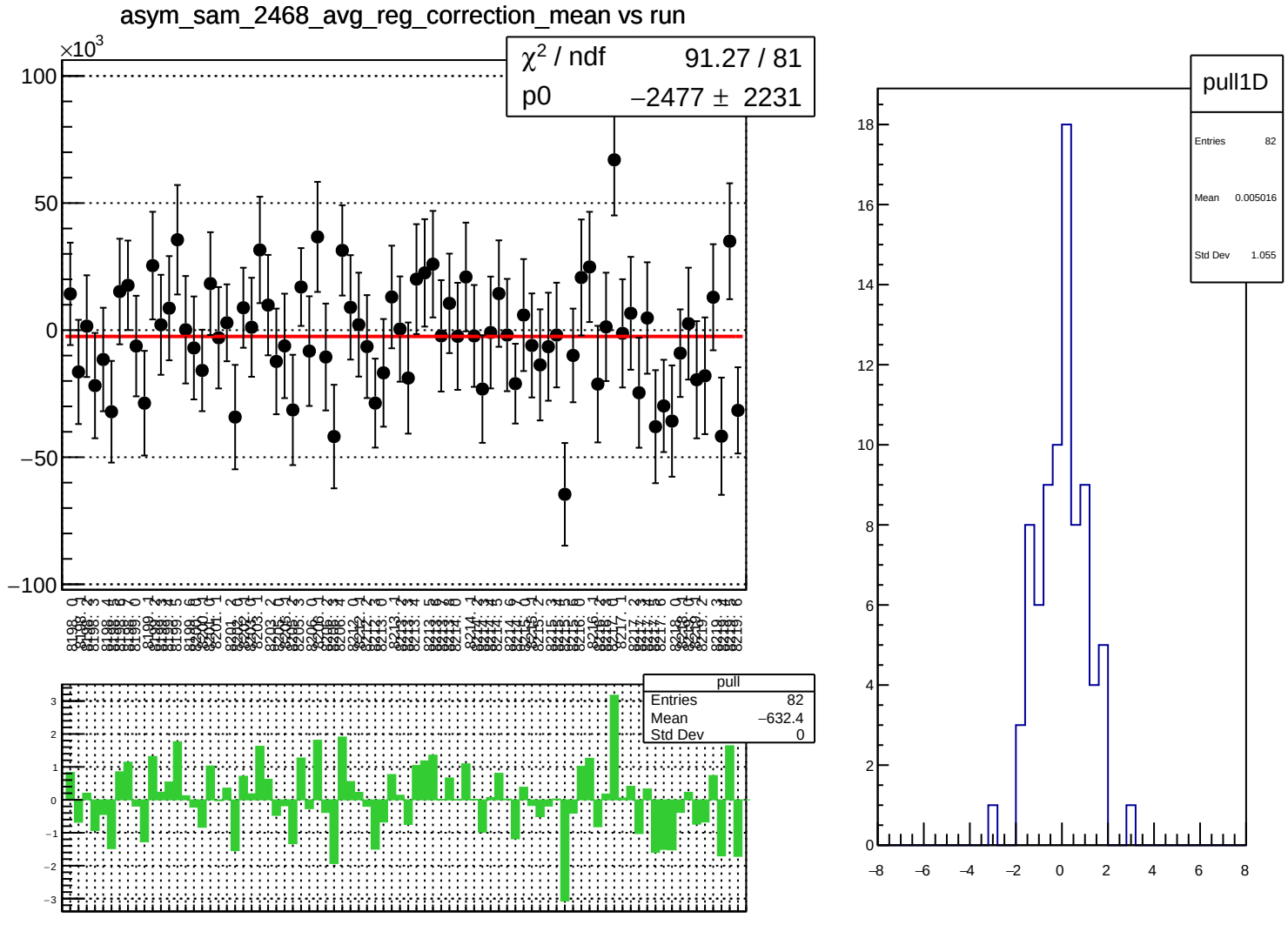

pull1D
Entries 82
Mean 0.05114
Std Dev 0.9847

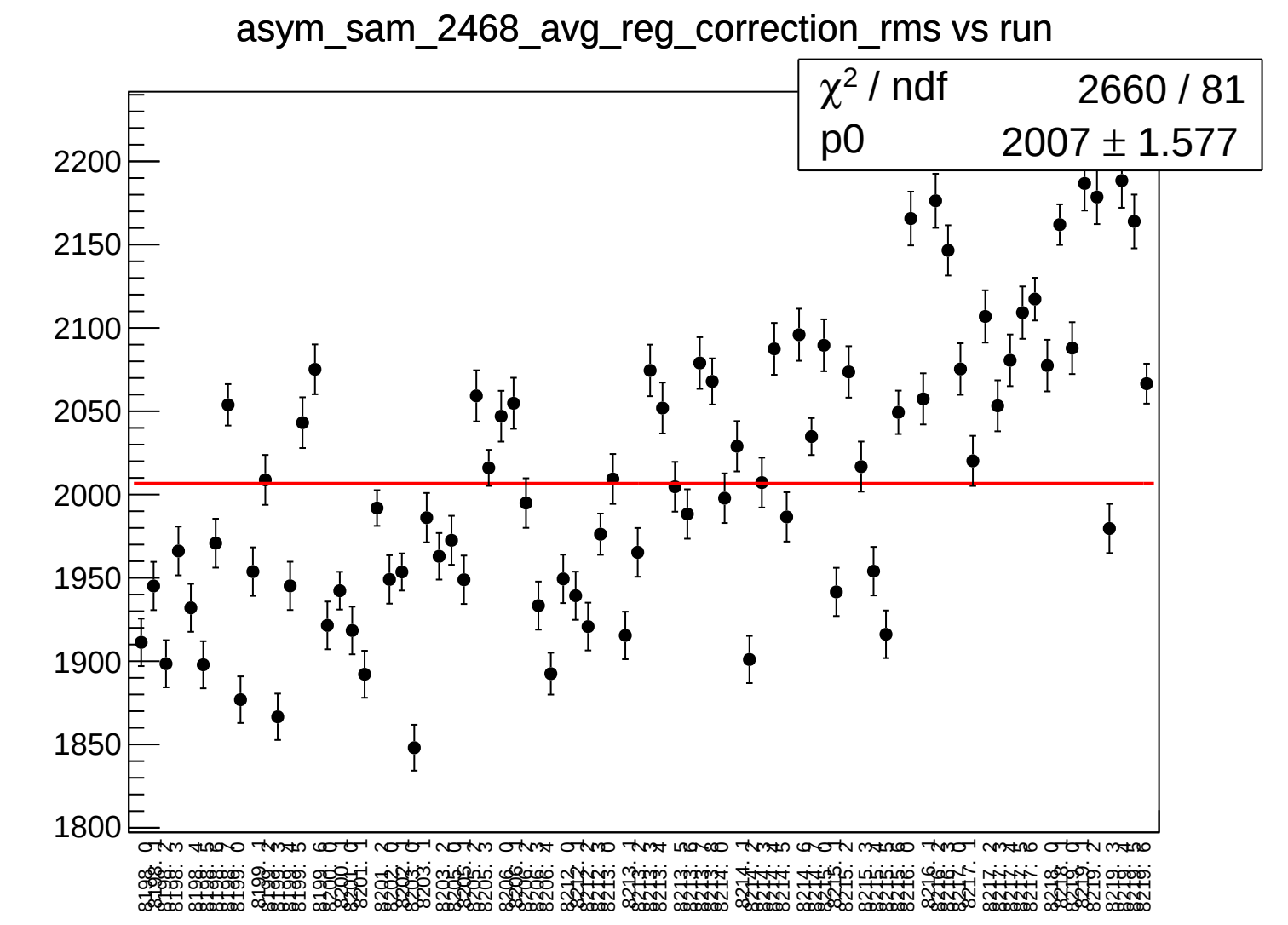

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.954e+05 / 81
p0 4.665e−11 ± 4.397e−14
0.25
0.2
0.15
0.1
0.05

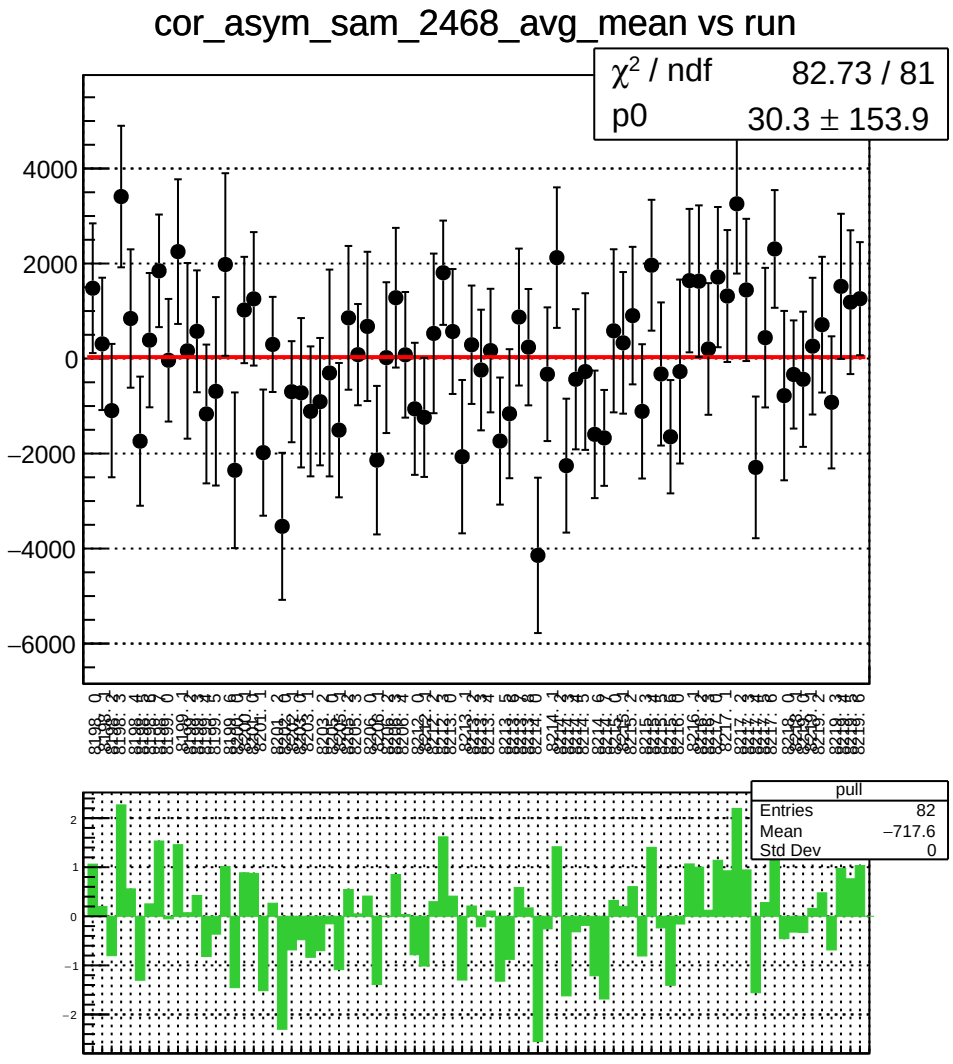

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 82.74 / 81
p0 30.29 ± 153.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −718.5
Std Dev 0
2
1
0
−1
−2

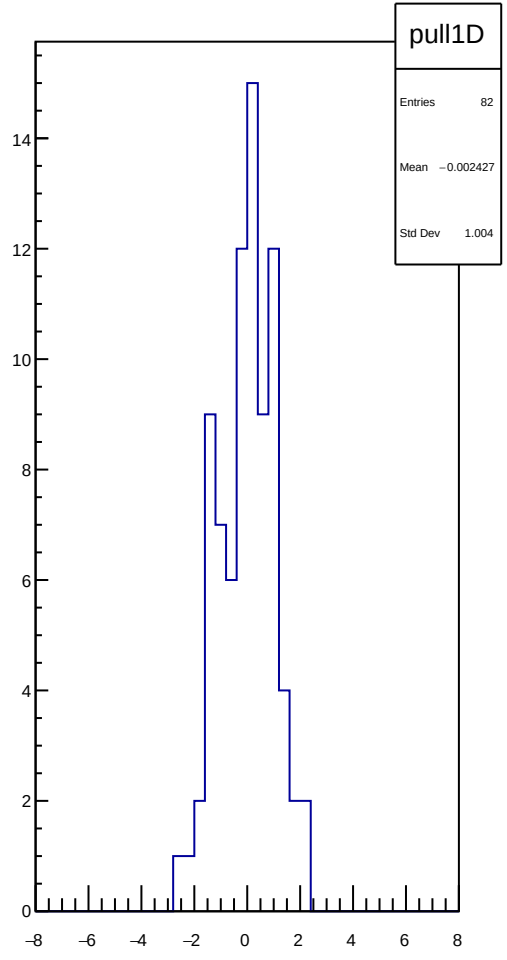

pull1D
Entries 82
Mean −0.002425
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

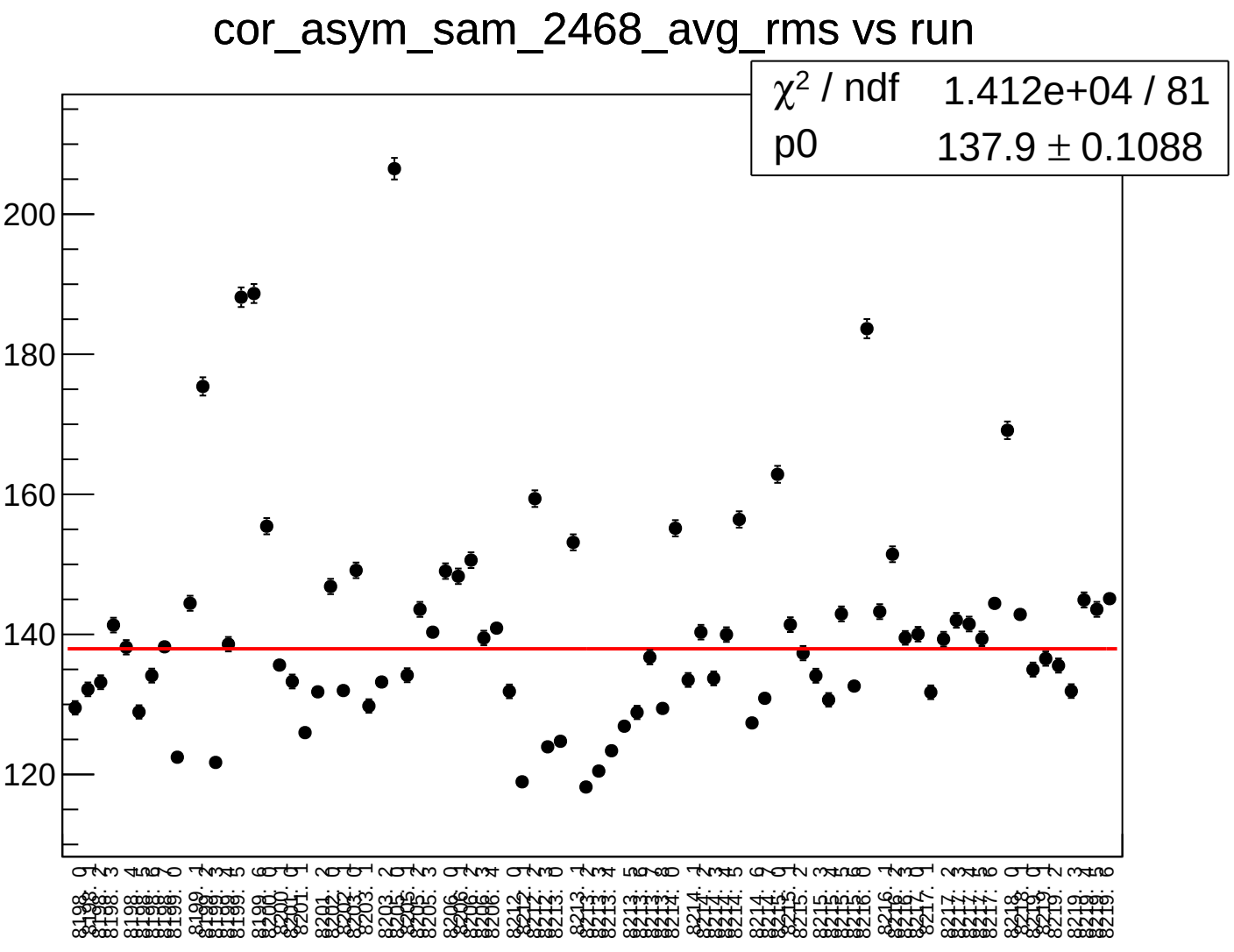

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.412e+04 / 81
p0 137.9 ± 0.1088
200
180
160
140
120

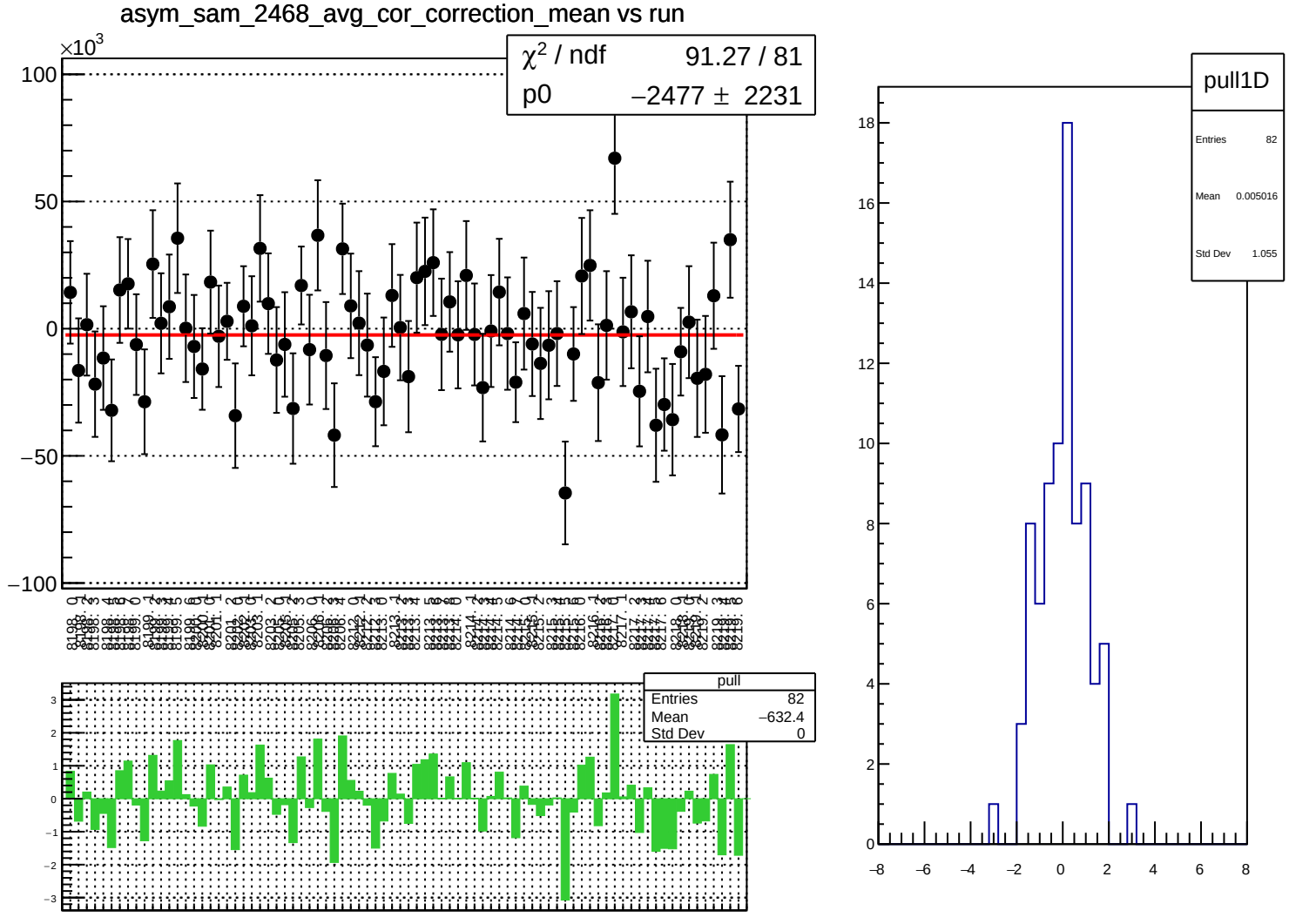

asym_sam_2468_avg_reg_correction_mean vs run
×10^3
χ² / ndf 91.27 / 81
p0 −2477 ± 2231
pull
Entries 82
Mean −632.4
Std Dev 0
pull1D
Entries 82
Mean 0.005016
Std Dev 1.055

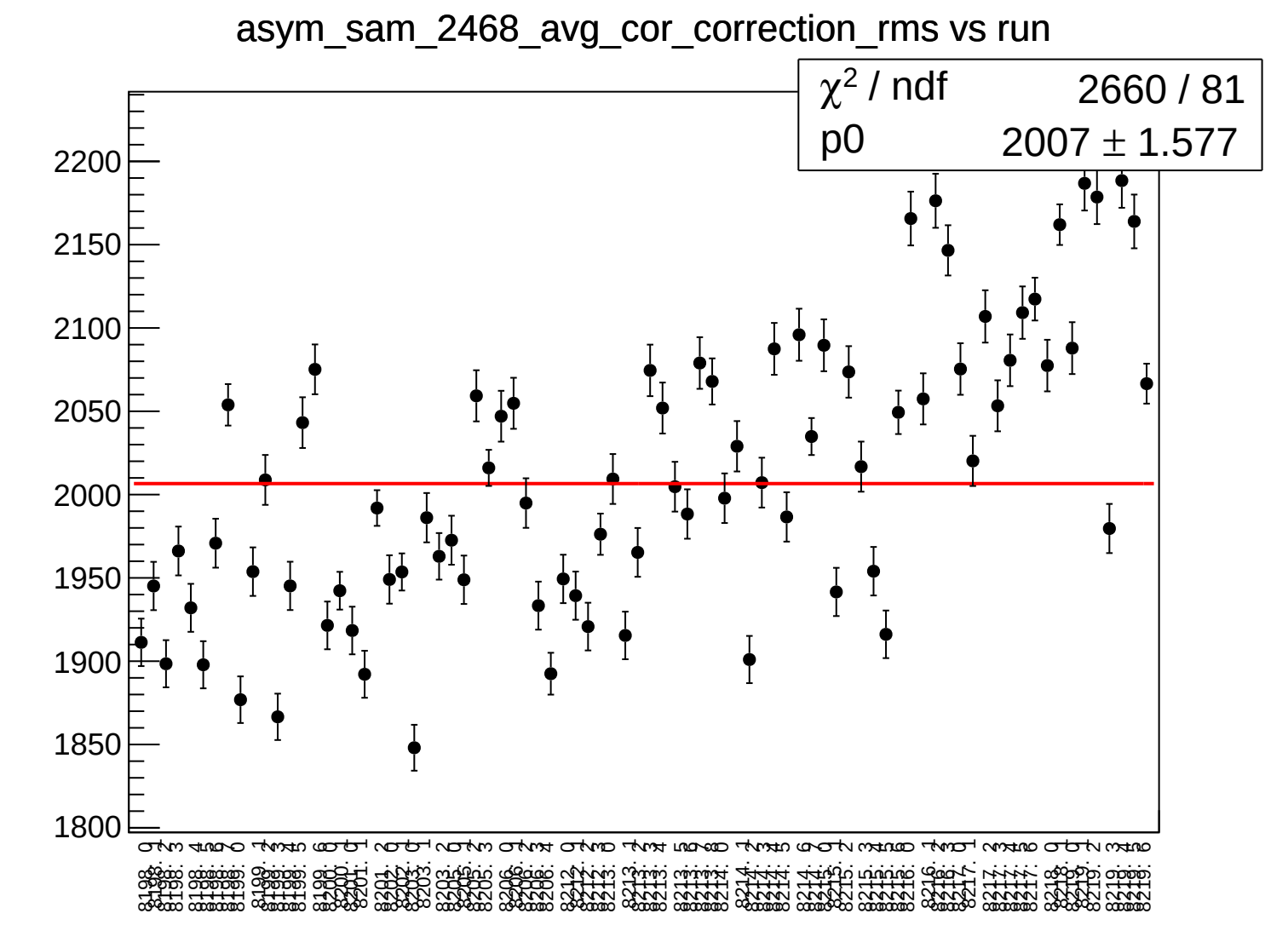

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 2660 / 81
p0 2007 ± 1.577
2200
2150
2100
2050
2000
1950
1900
1850
1800

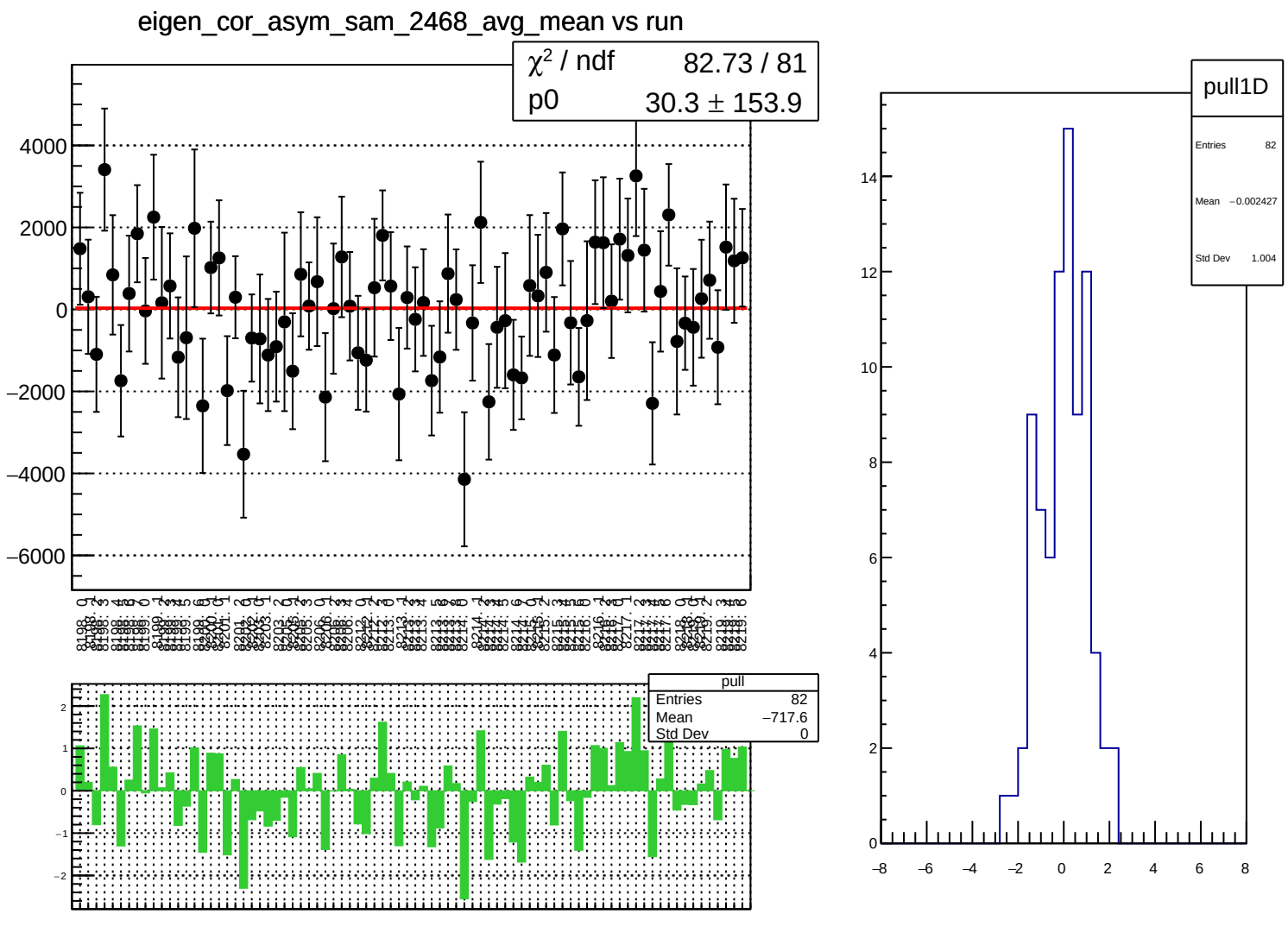

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 82.73 / 81
p0 30.3 ± 153.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −717.6
Std Dev 0
2
1
0
−1
−2

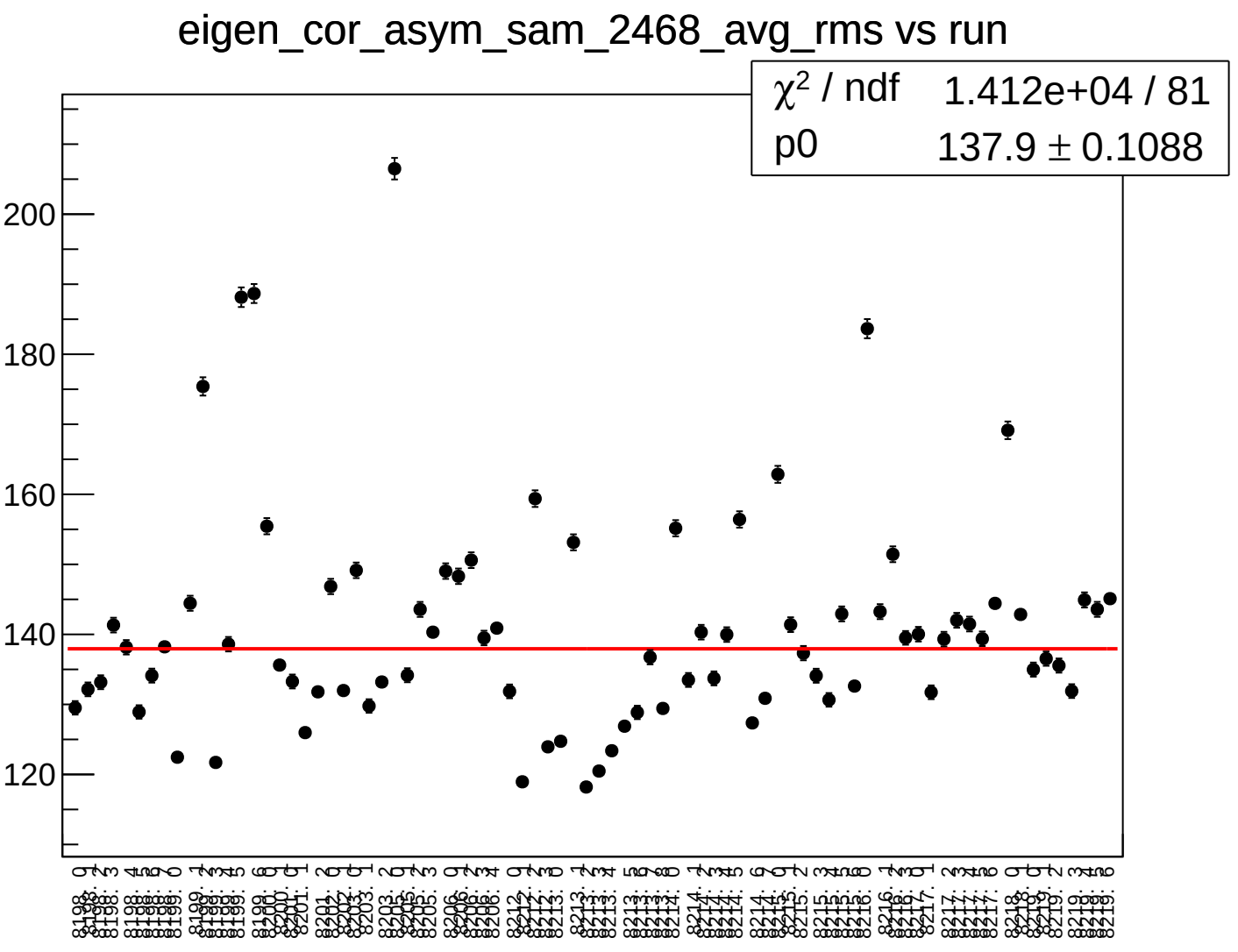

pull1D
Entries 82
Mean −0.002427
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

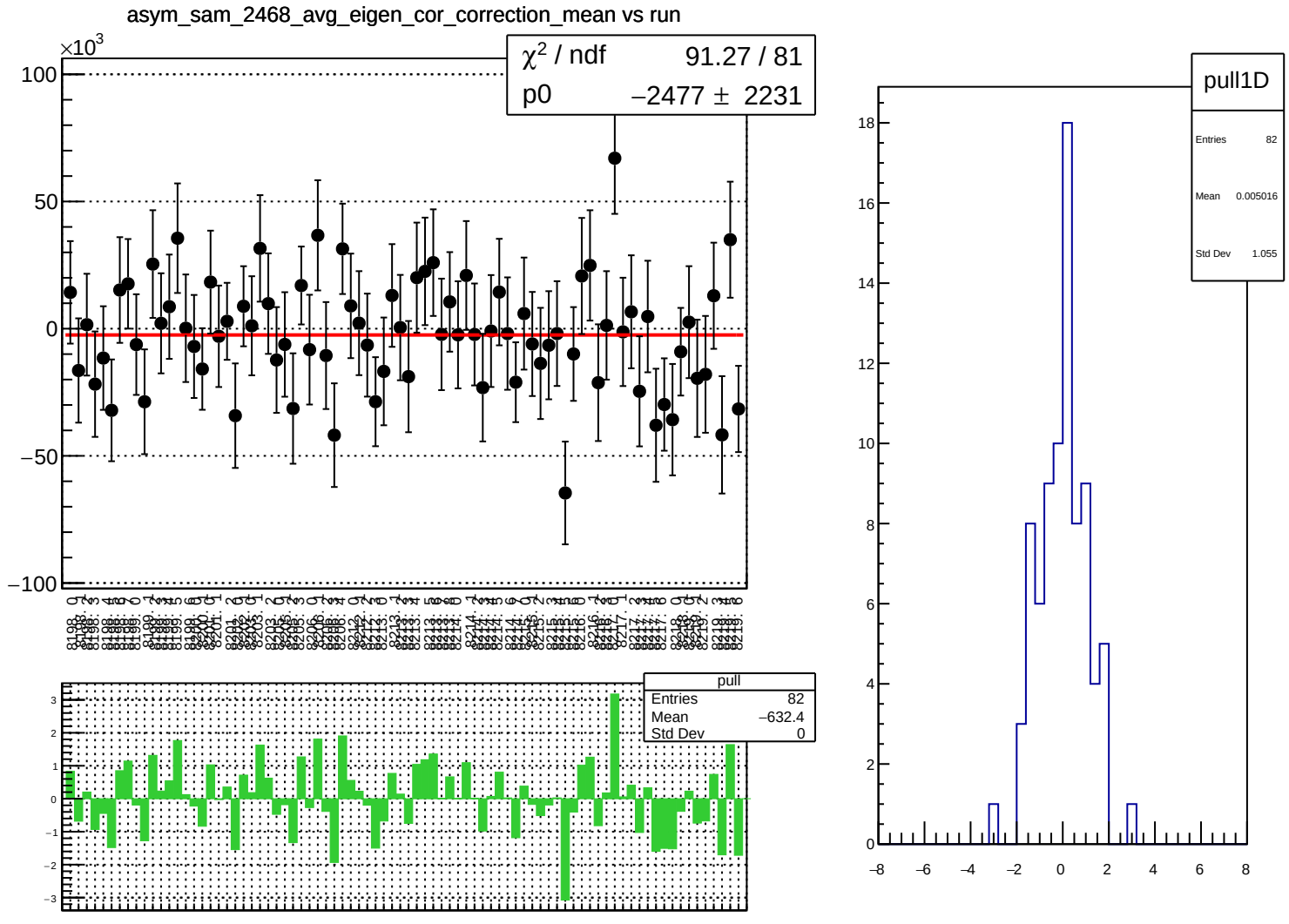

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.412e+04 / 81
p0 137.9 ± 0.1088
200
180
160
140
120

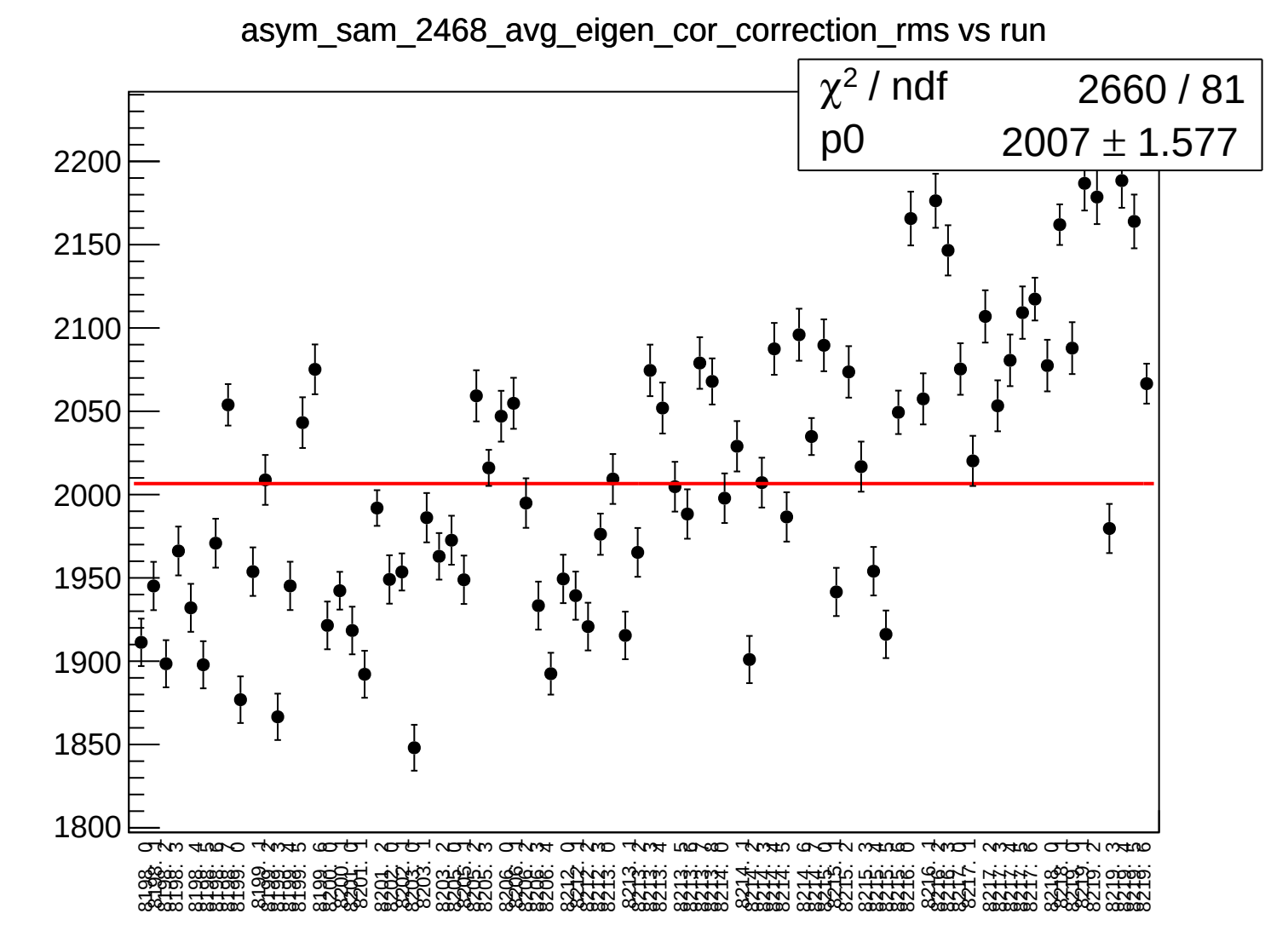

asym_sam_2468_avg_cor_correction_mean vs run
×10^3
χ² / ndf 91.27 / 81
p0 −2477 ± 2231
pull
Entries 82
Mean −632.4
Std Dev 0
pull1D
Entries 82
Mean 0.005016
Std Dev 1.055

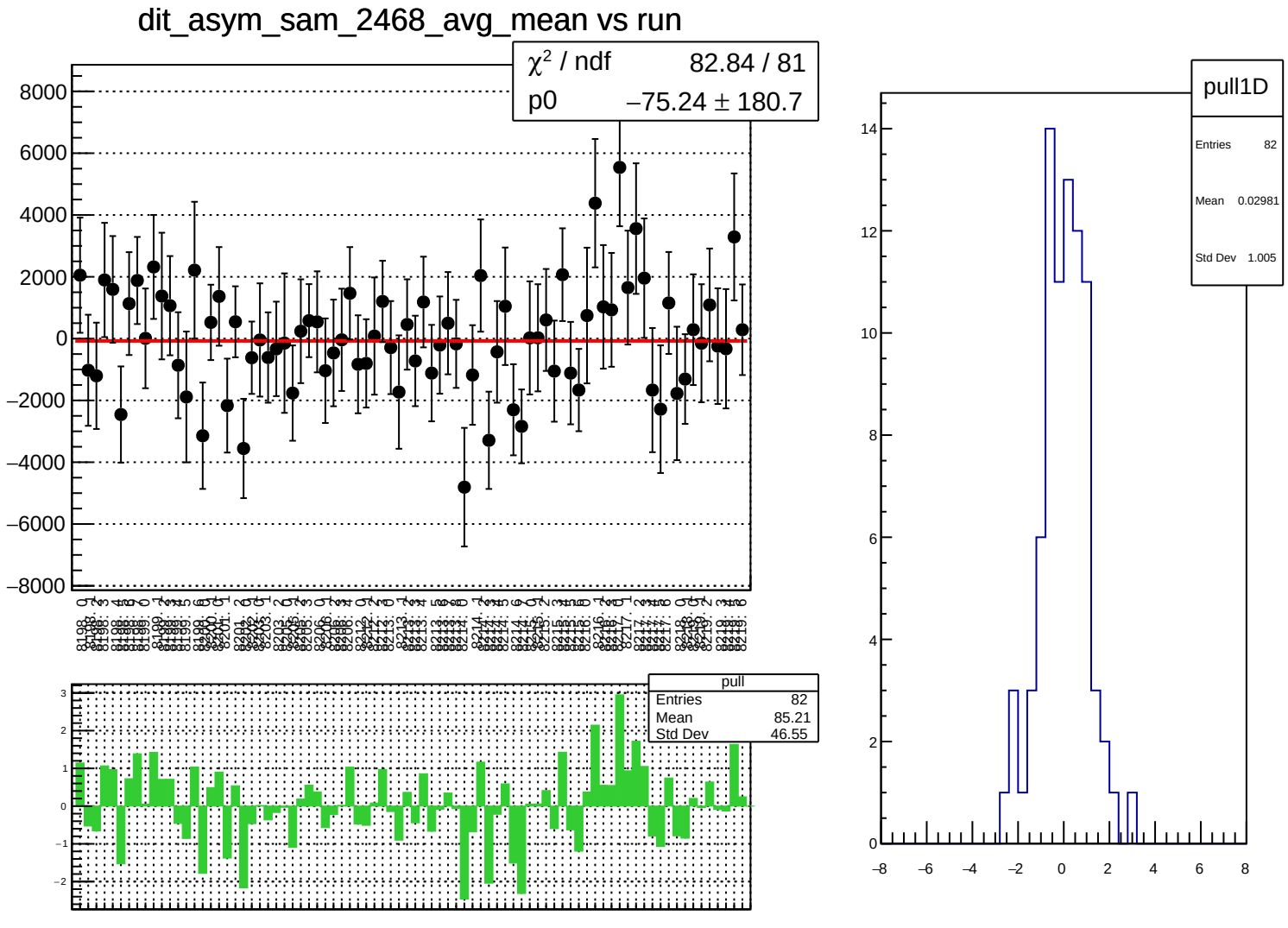

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 2660 / 81
p0 2007 ± 1.577
2200
2150
2100
2050
2000
1950
1900
1850
1800

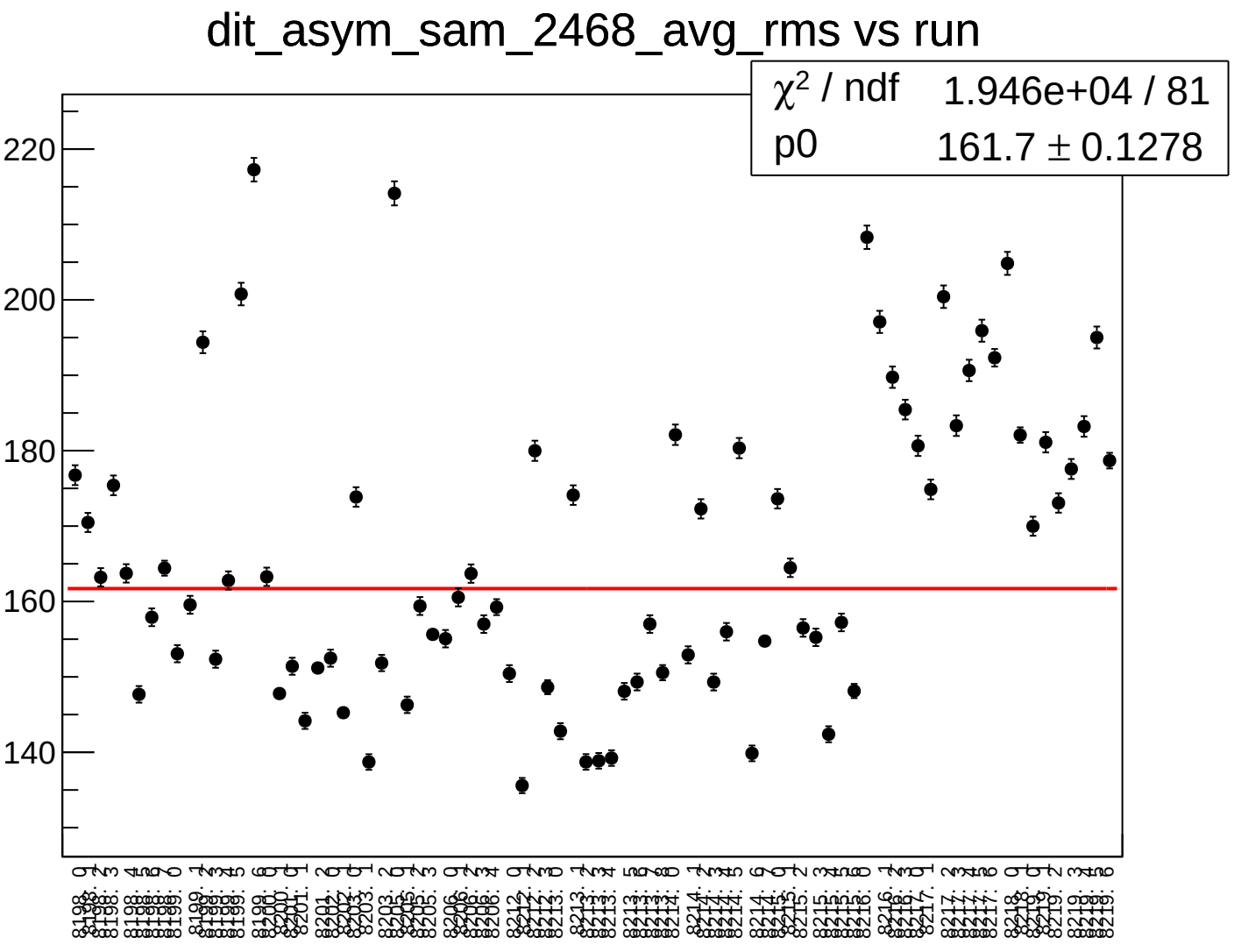

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 82.73 / 81
p0 30.3 ± 153.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −717.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.002427
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

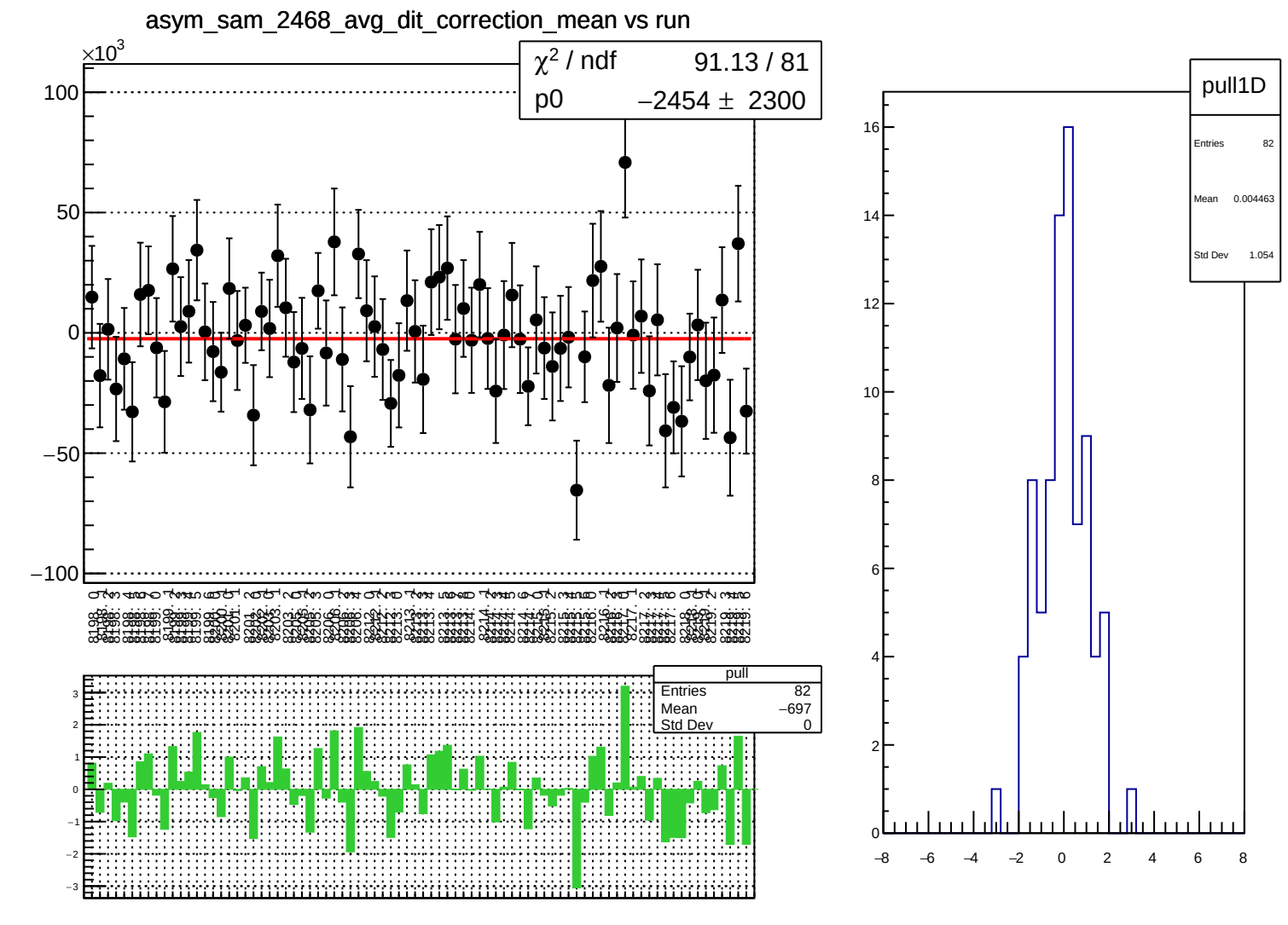

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.412e+04 / 81
p0 137.9 ± 0.1088
200
180
160
140
120

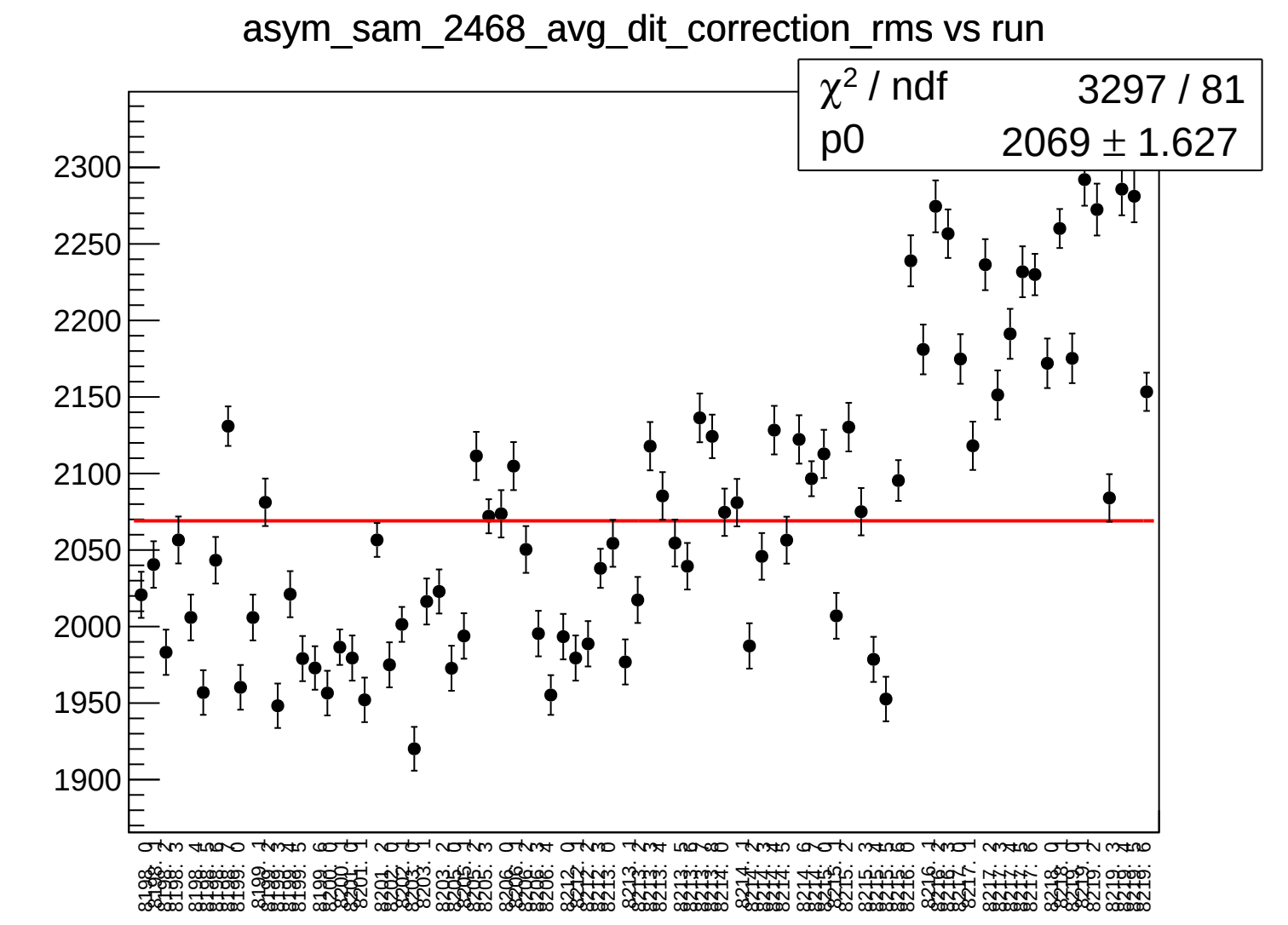

asym_sam_2468_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.27 / 81
p0 −2477 ± 2231
pull
Entries 82
Mean −632.4
Std Dev 0
pull1D
Entries 82
Mean 0.005016
Std Dev 1.055

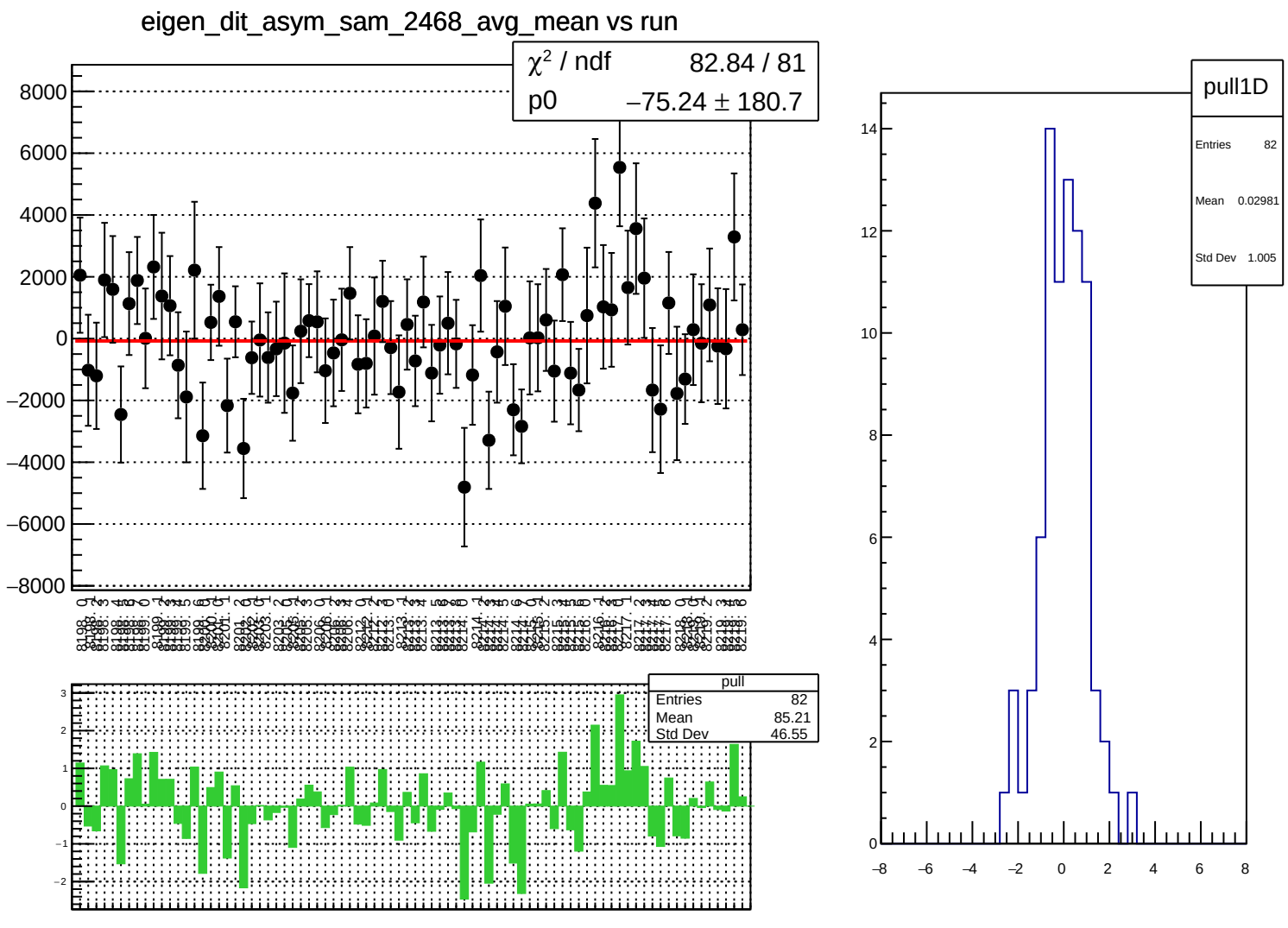

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 2660 / 81
p0 2007 ± 1.577
2200
2150
2100
2050
2000
1950
1900
1850
1800

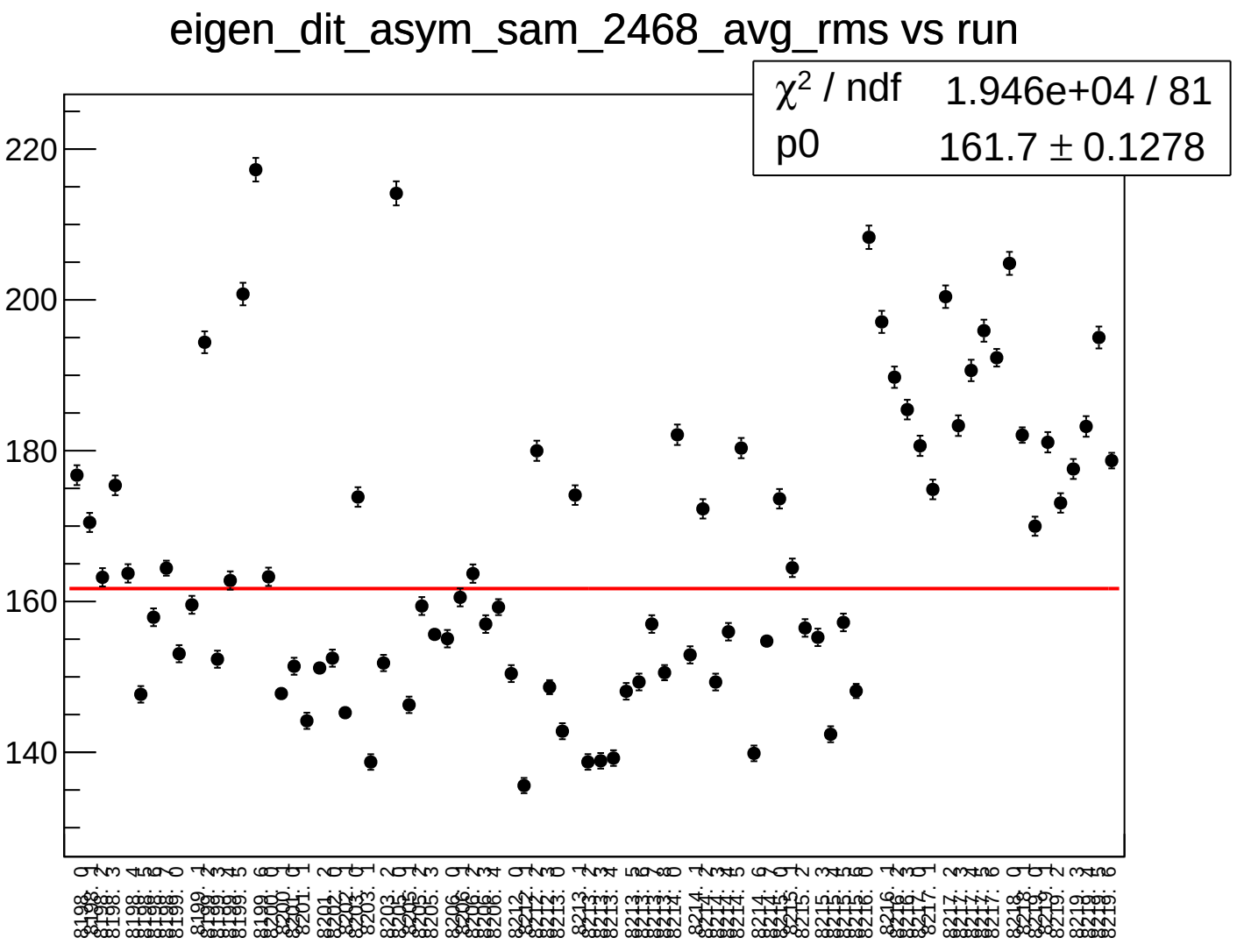

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 82.84 / 81
p0 −75.24 ± 180.7
pull
Entries 82
Mean 85.21
Std Dev 46.55
pull1D
Entries 82
Mean 0.02981
Std Dev 1.005

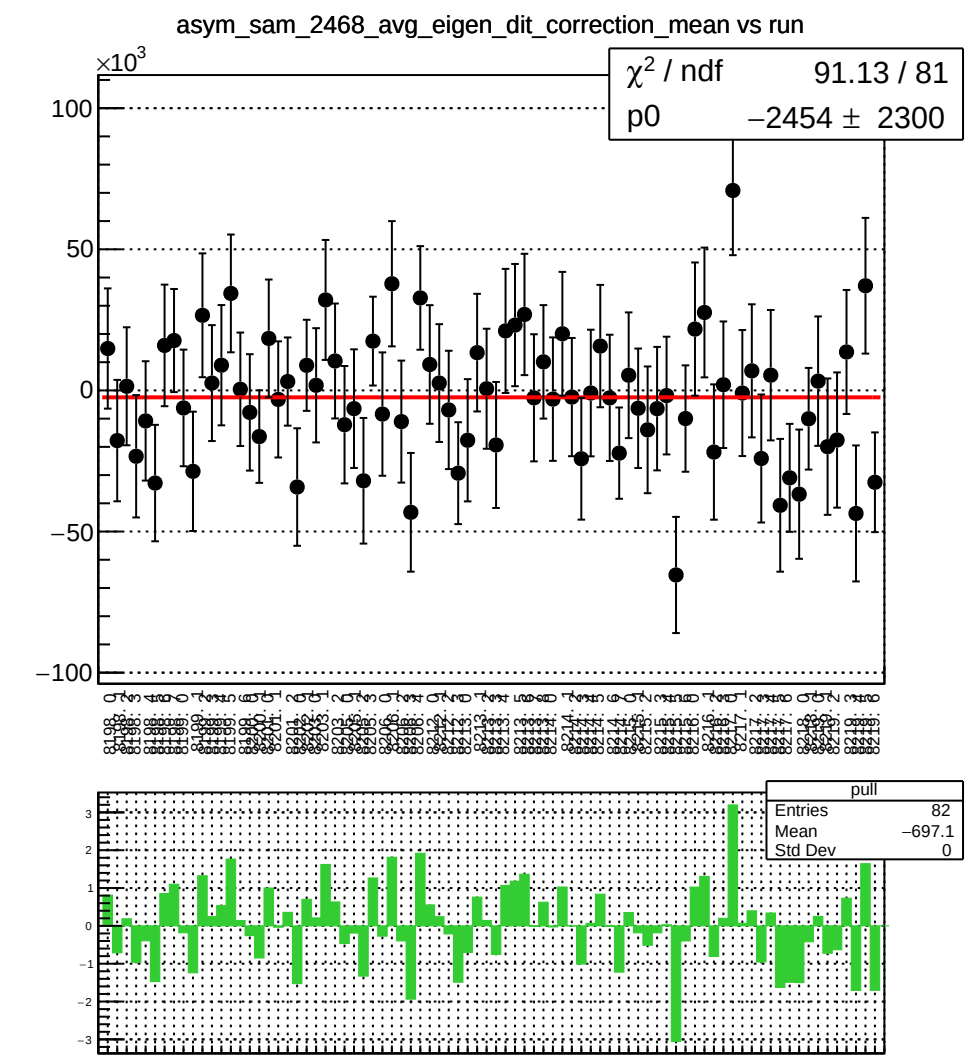

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.946e+04 / 81
p0 161.7 ± 0.1278
220
200
180
160
140

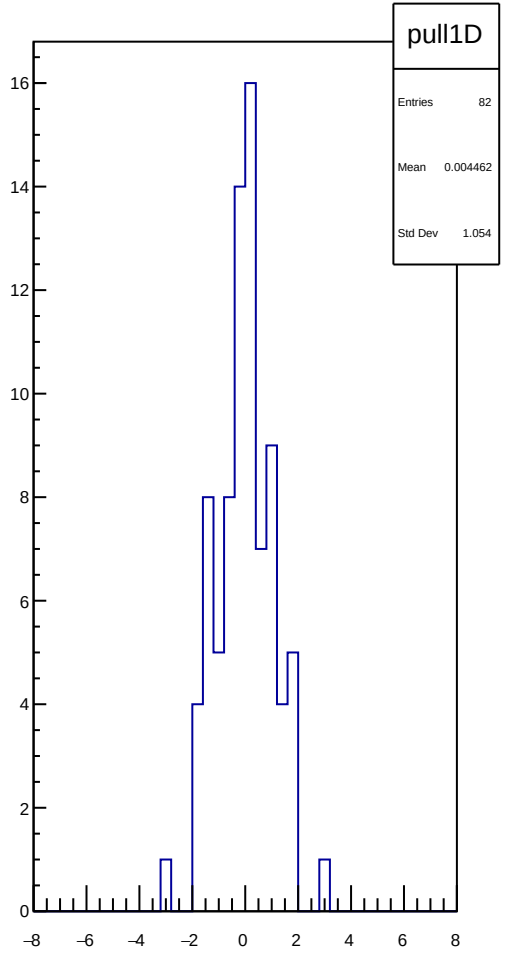

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.13 / 81
p0 −2454 ± 2300
100
50
0
−50
−100
pull
Entries 82
Mean −697
Std Dev 0
pull1D
Entries 82
Mean 0.004463
Std Dev 1.054

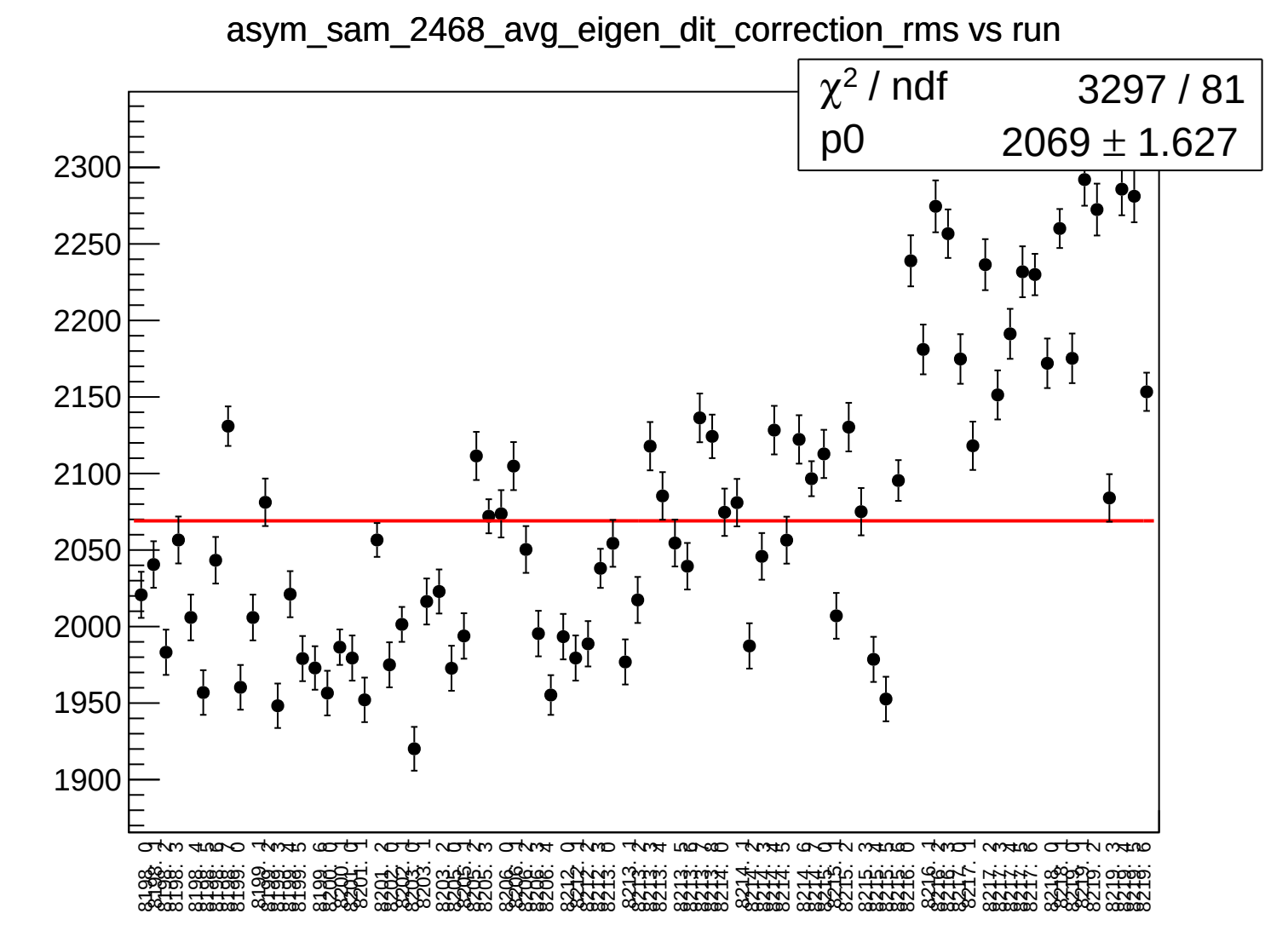

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 3297 / 81
p0 2069 ± 1.627
2300
2250
2200
2150
2100
2050
2000
1950
1900

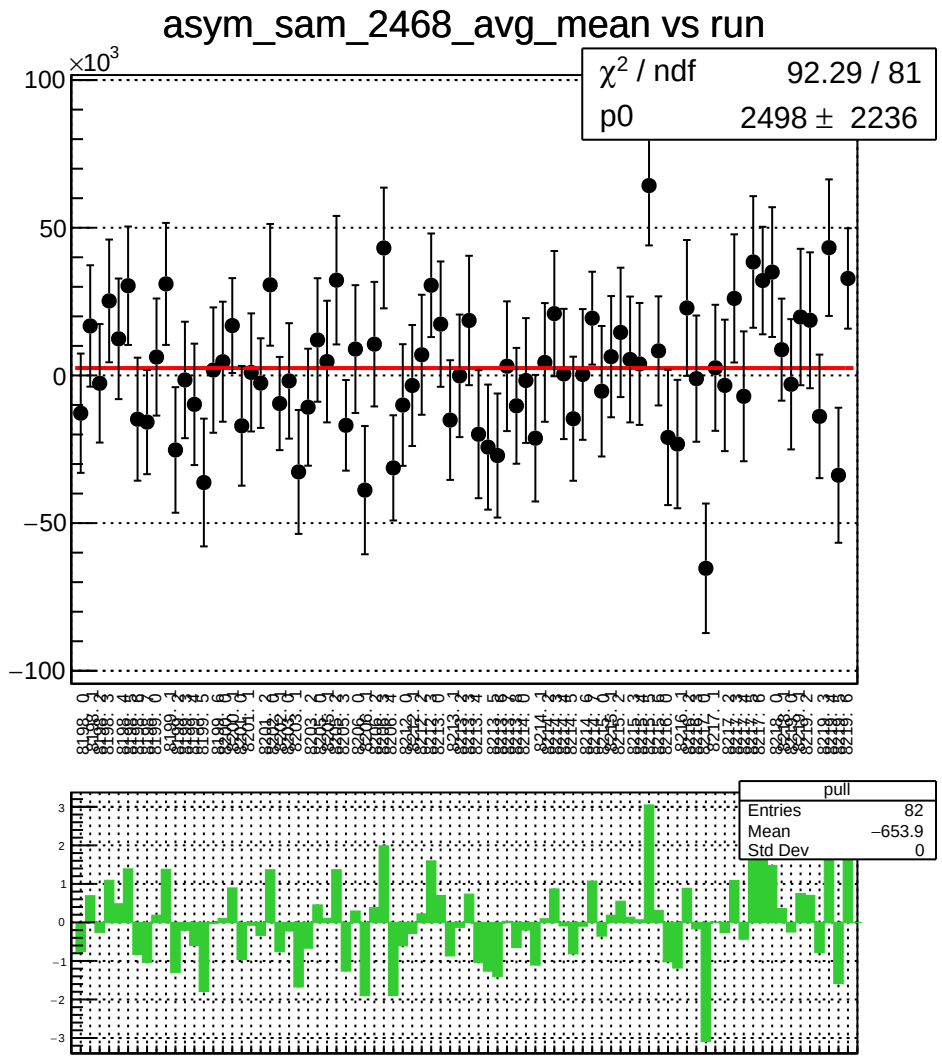

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 82.84 / 81
p0 −75.24 ± 180.7
pull
Entries 82
Mean 85.21
Std Dev 46.55
pull1D
Entries 82
Mean 0.02981
Std Dev 1.005

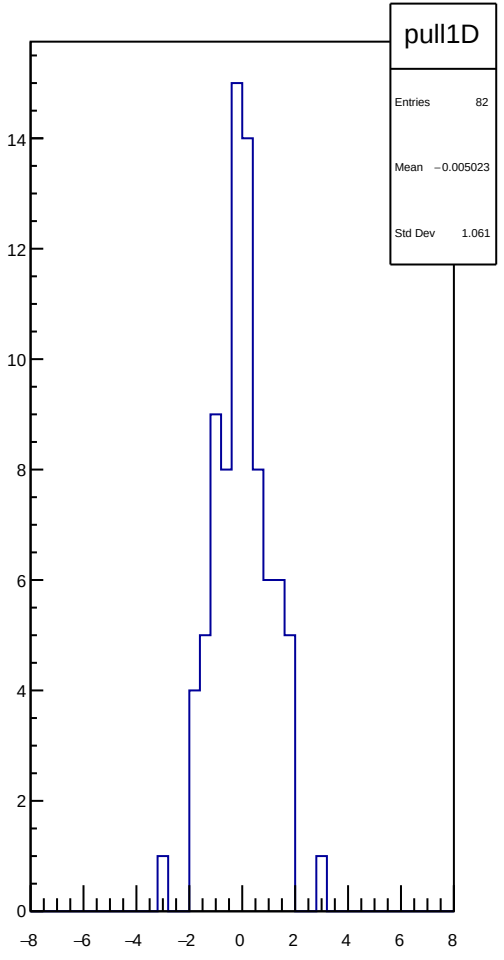

eigen_dit_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 1.946e+04 / 81
p0 161.7 ± 0.1278
220
200
180
160
140

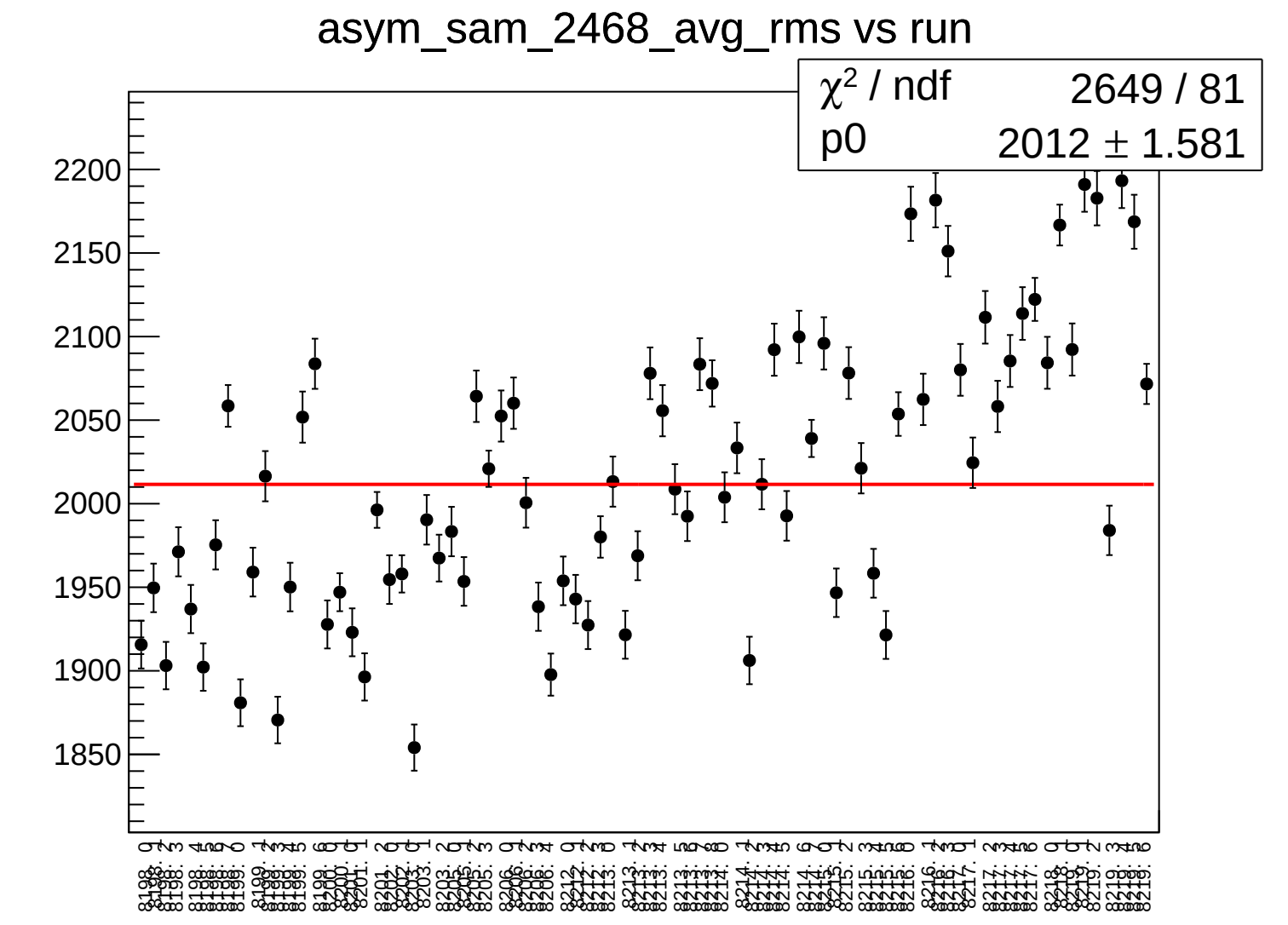

asym_sam_2468_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.13 / 81
p0 −2454 ± 2300
100
50
0
−50
−100
pull
Entries 82
Mean −697.1
Std Dev 0
3
2
1
0
−1
−2
−3

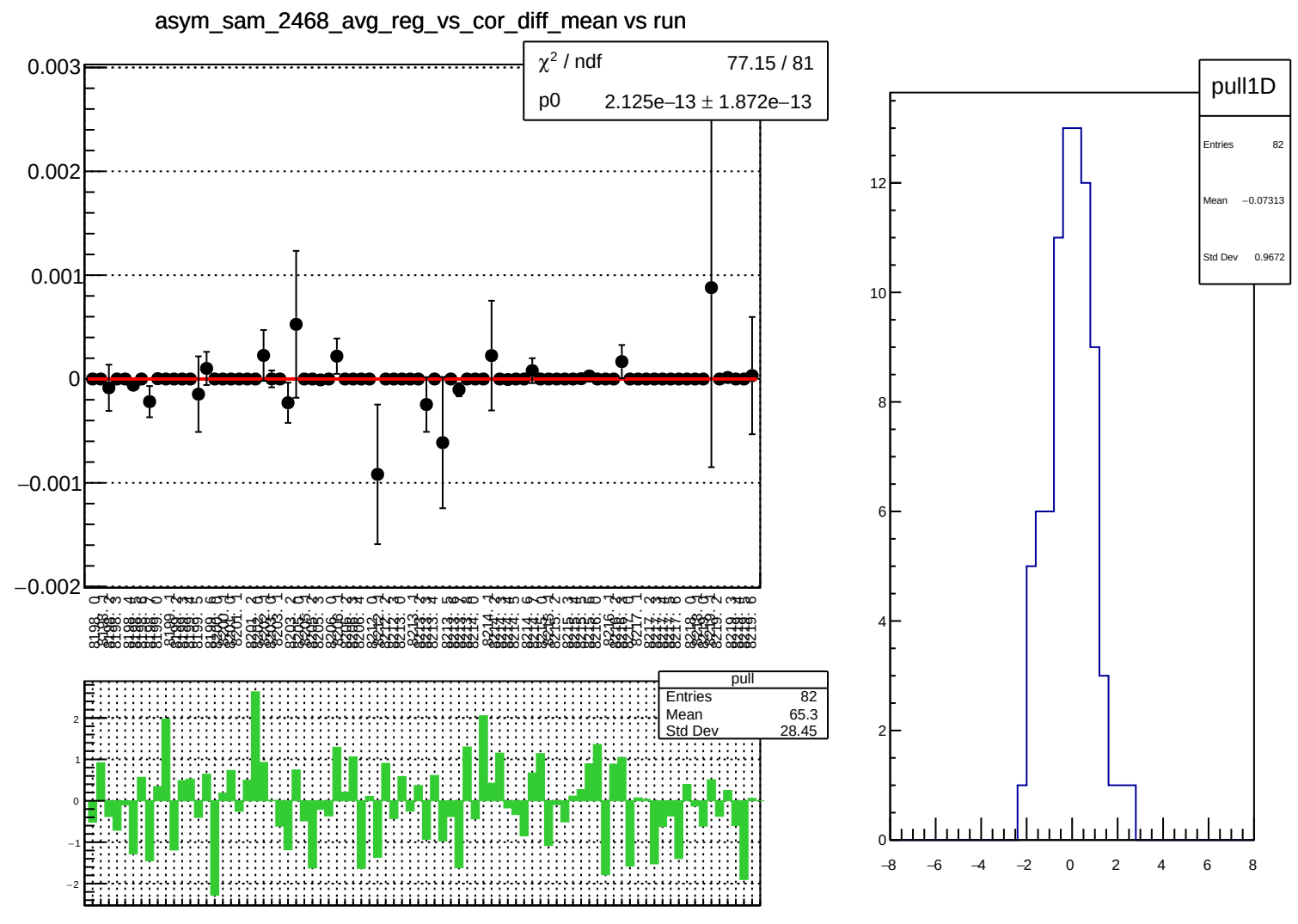

pull1D
Entries 82
Mean 0.004462
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

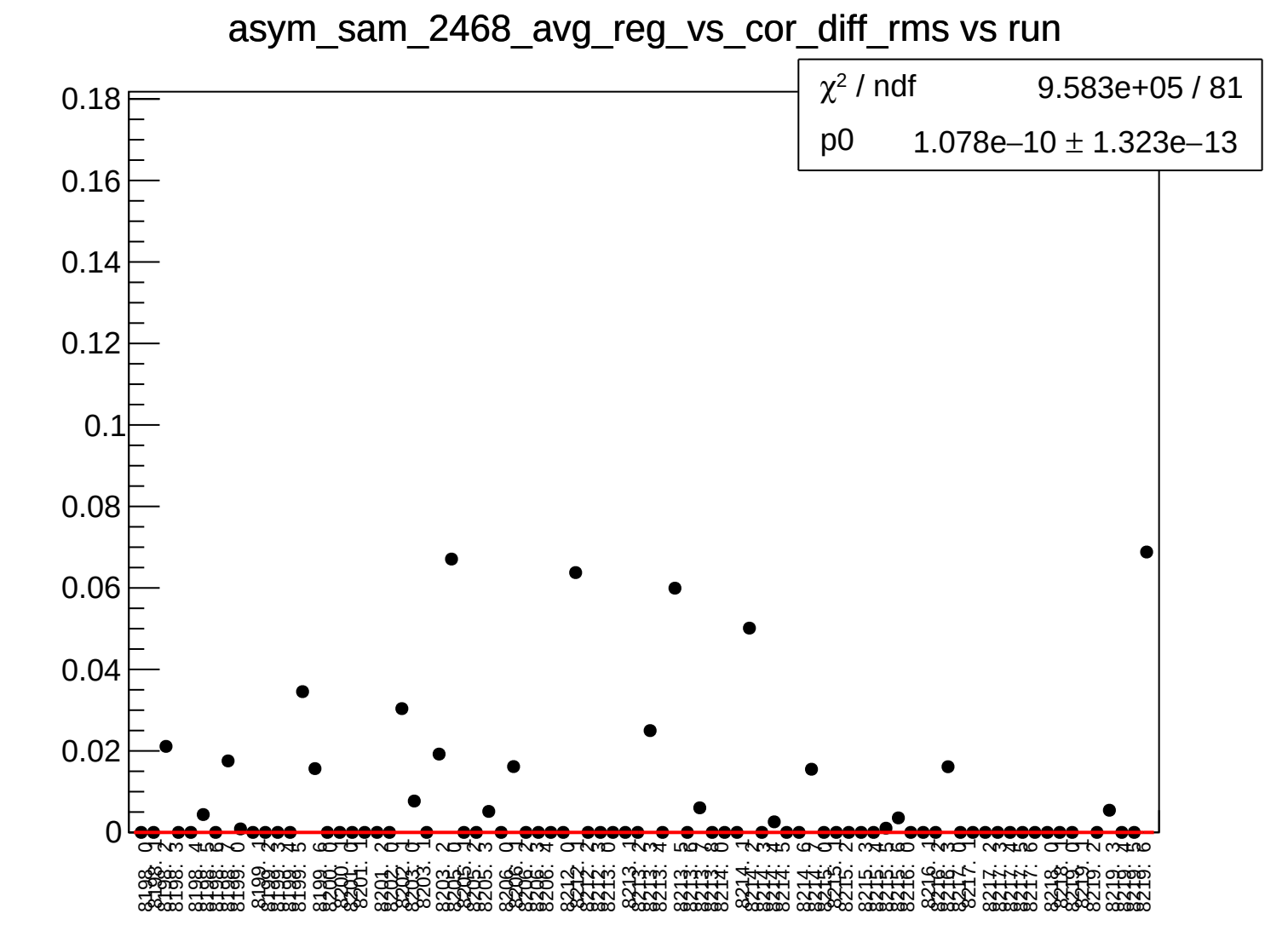

asym_sam_2468_avg_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 3297 / 81
p0 2069 ± 1.627
2300
2250
2200
2150
2100
2050
2000
1950
1900

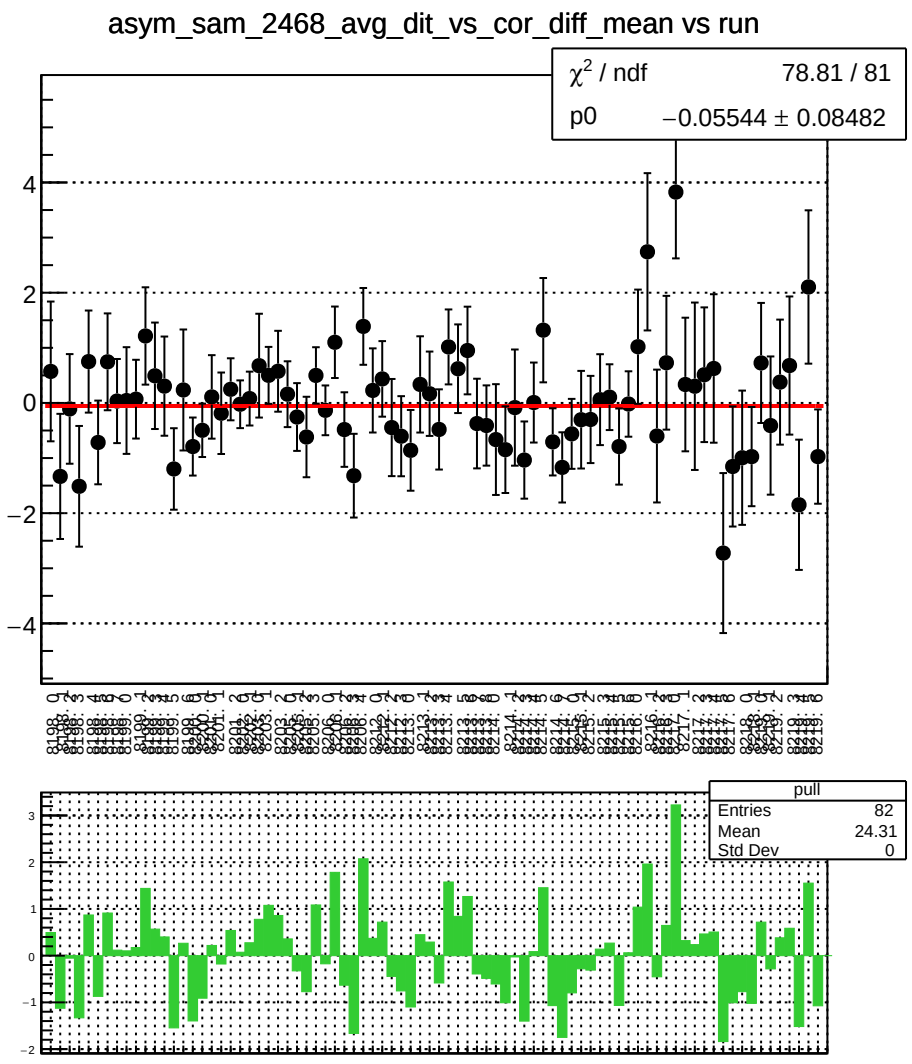

asym_sam_2468_avg_mean vs run
×10^3
χ^2 / ndf 92.29 / 81
p0 2498 ± 2236
pull
Entries 82
Mean −653.9
Std Dev 0

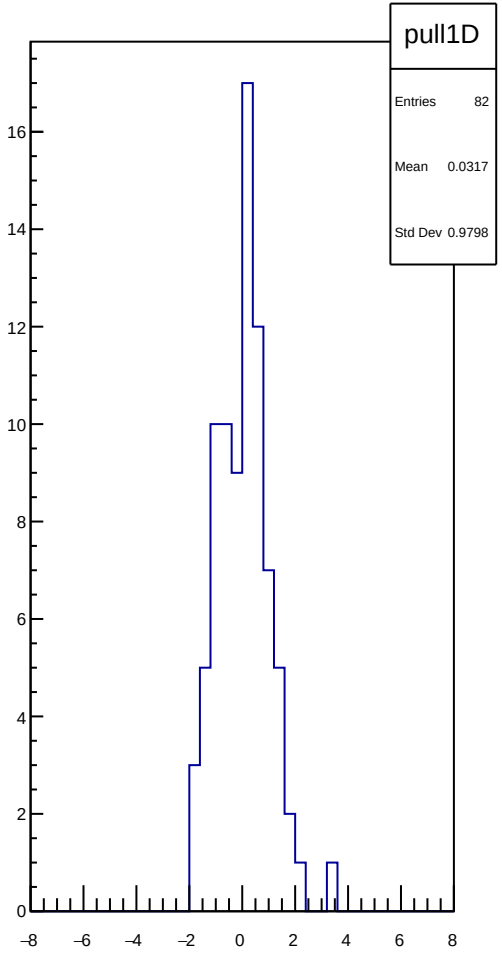

pull1D
Entries 82
Mean −0.005023
Std Dev 1.061

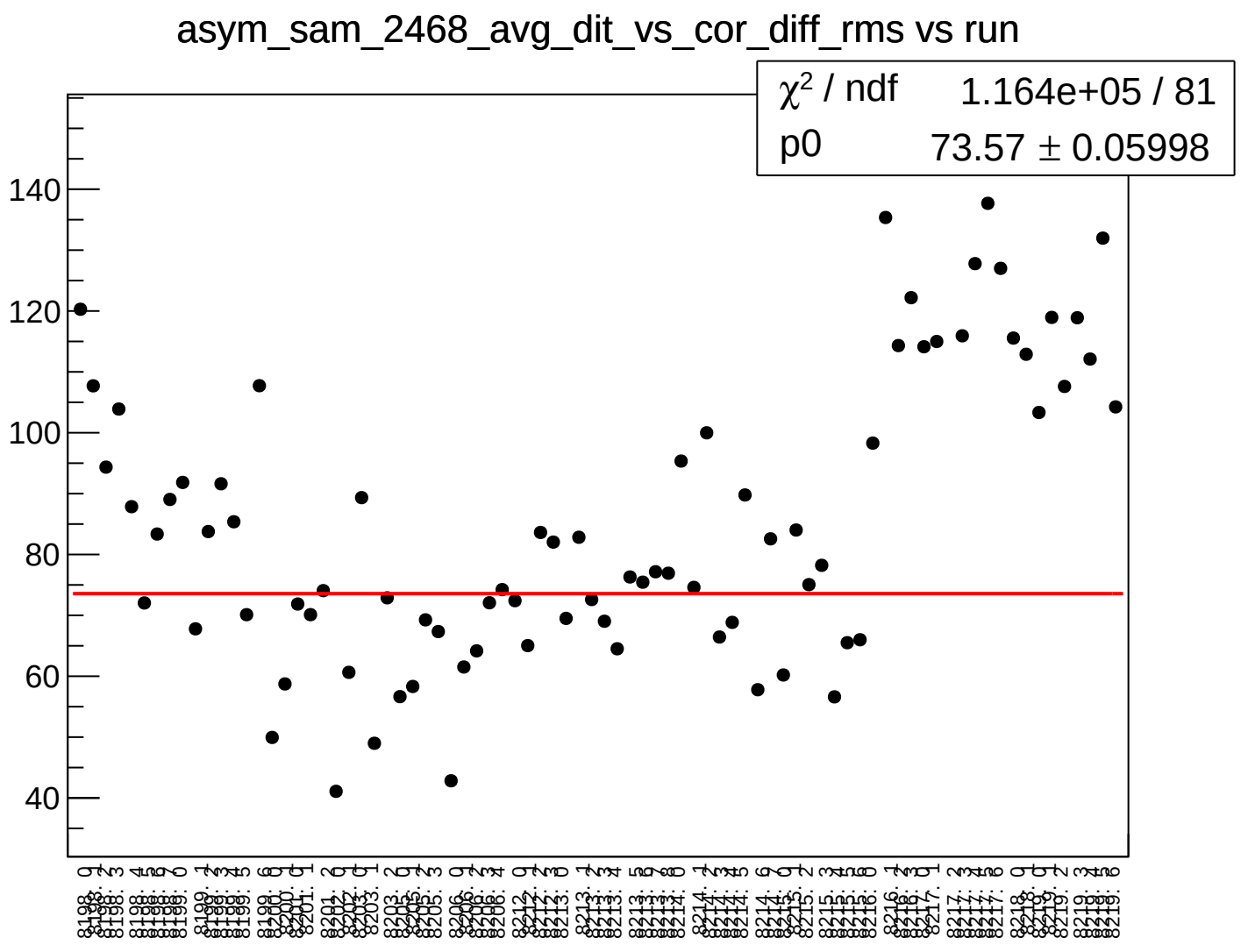

asym_sam_2468_avg_rms vs run
χ² / ndf 2649 / 81
p0 2012 ± 1.581
2200
2150
2100
2050
2000
1950
1900
1850

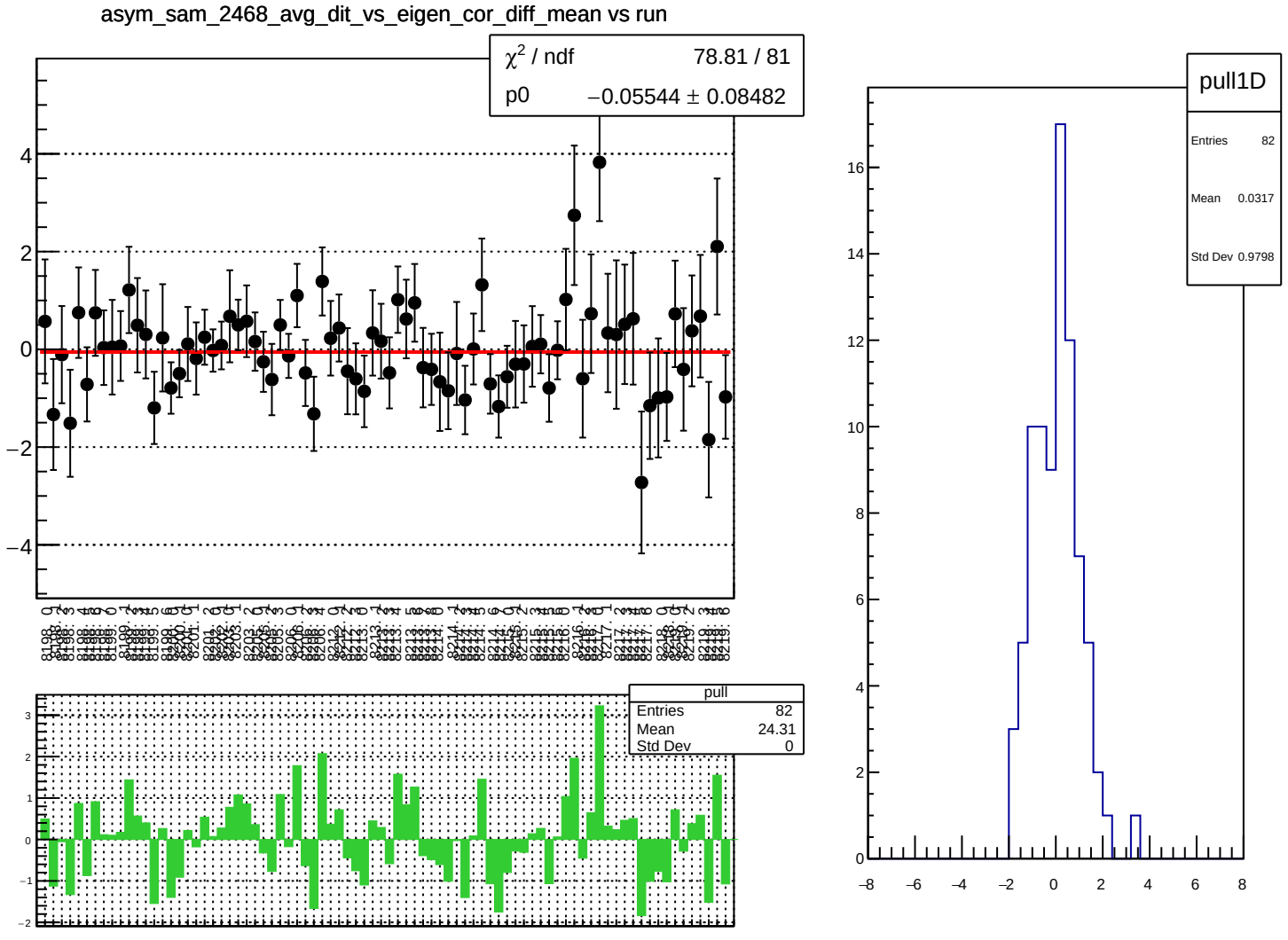

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.15 / 81
p0 2.125e−13 ± 1.872e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 82
Mean 65.3
Std Dev 28.45
pull1D
Entries 82
Mean −0.07313
Std Dev 0.9672

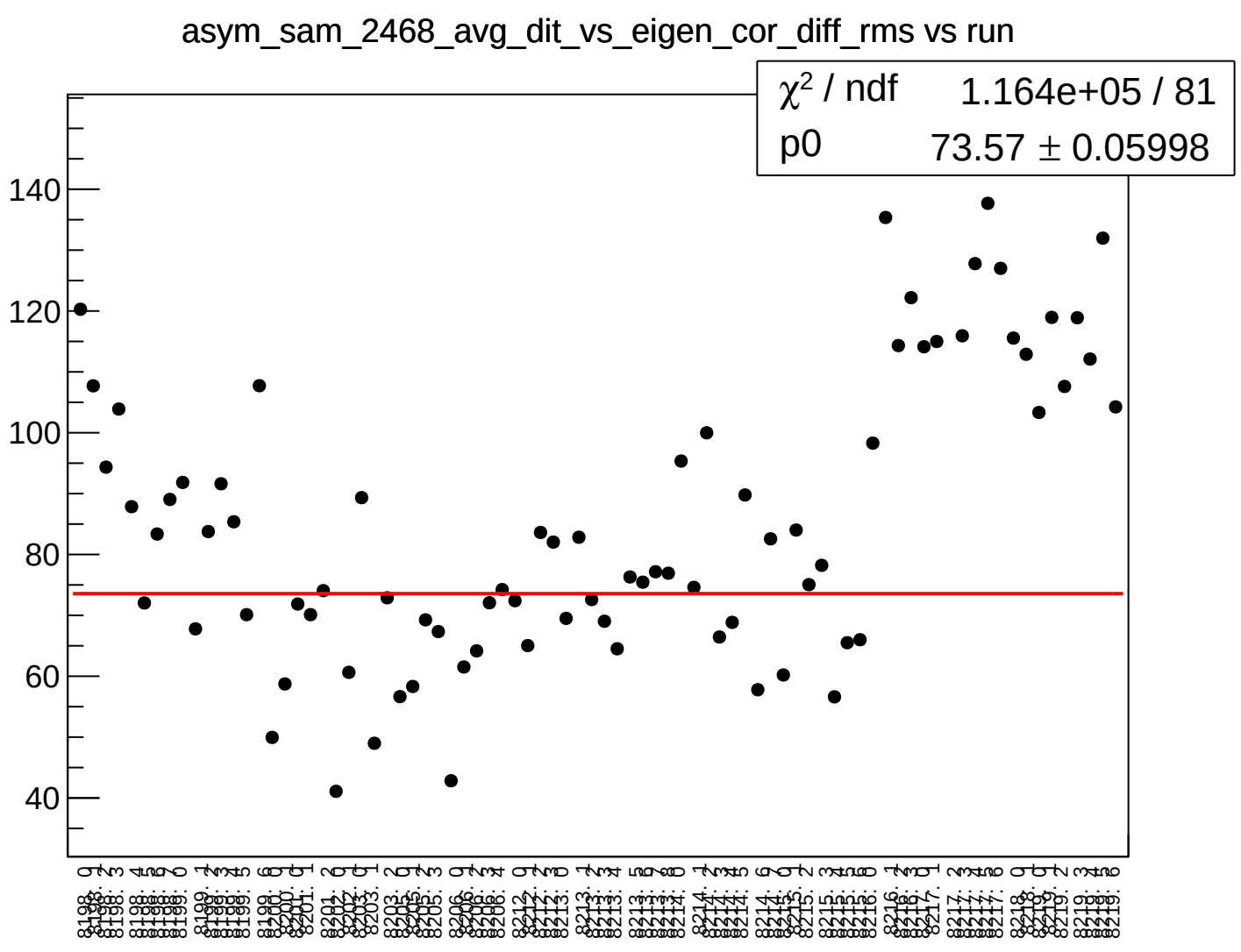

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.583e+05 / 81
p0 1.078e−10 ± 1.323e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

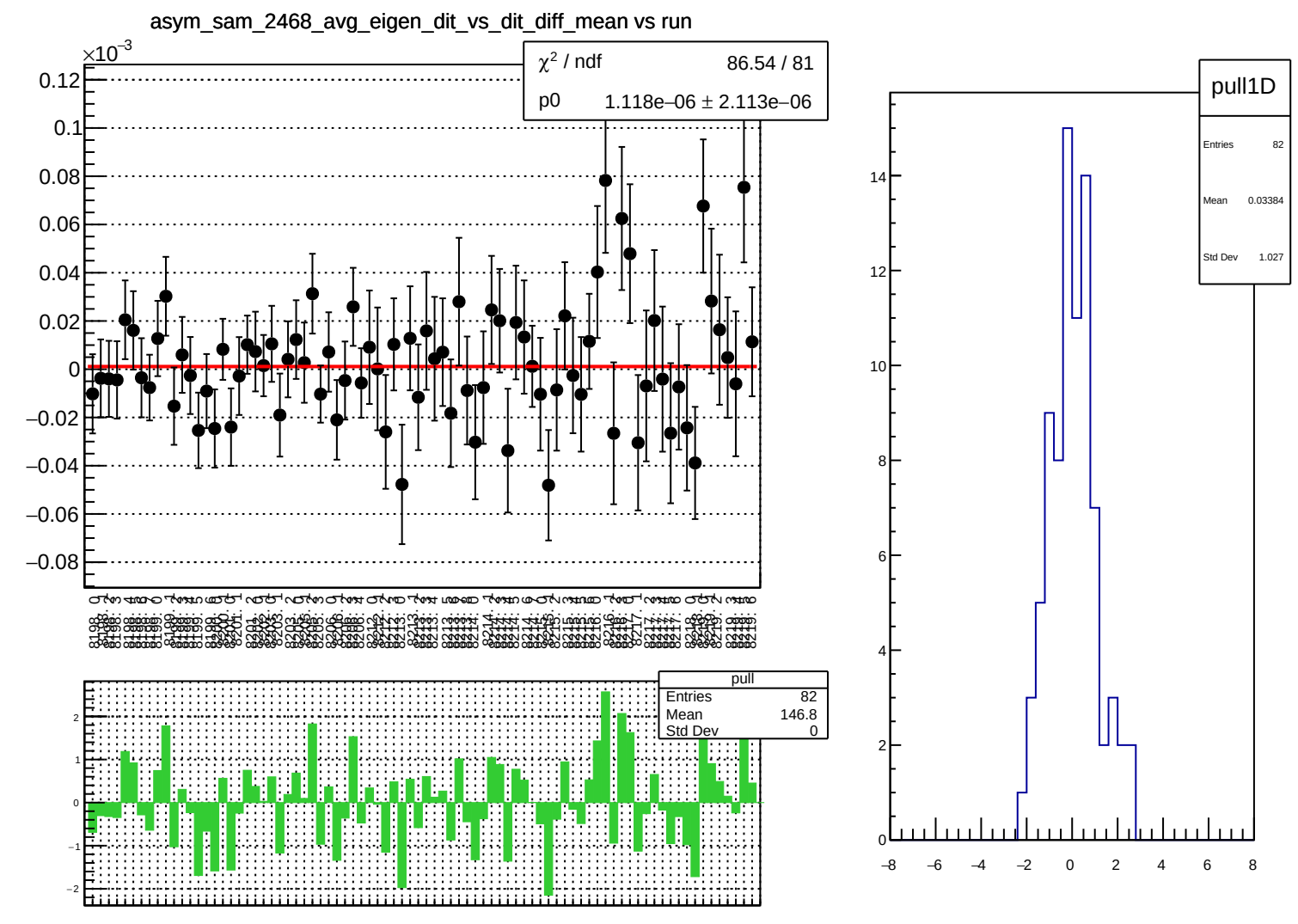

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.81 / 81
p0 −0.05544 ± 0.08482
pull
Entries 82
Mean 24.31
Std Dev 0

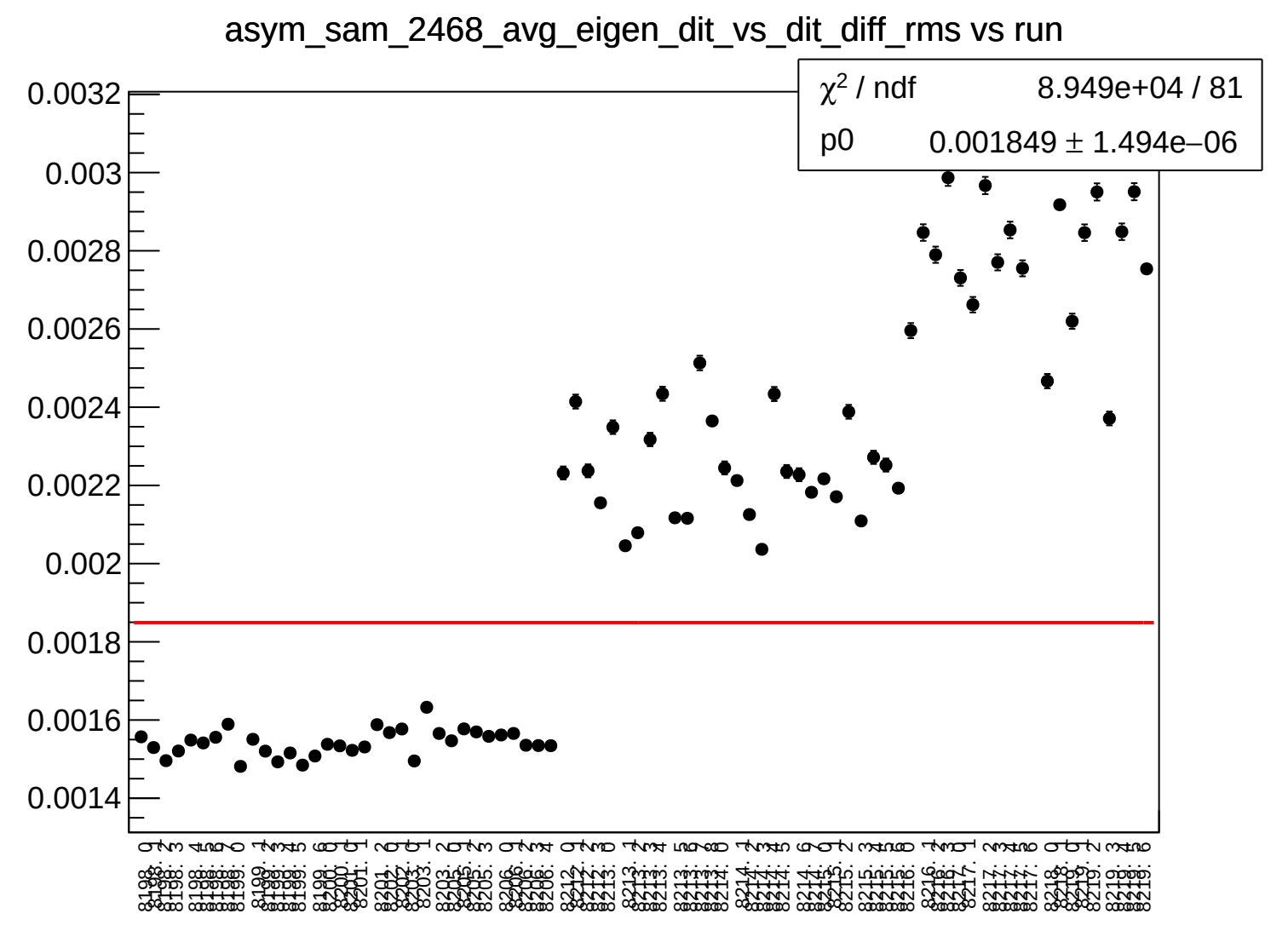

pull1D
Entries 82
Mean 0.0317
Std Dev 0.9798

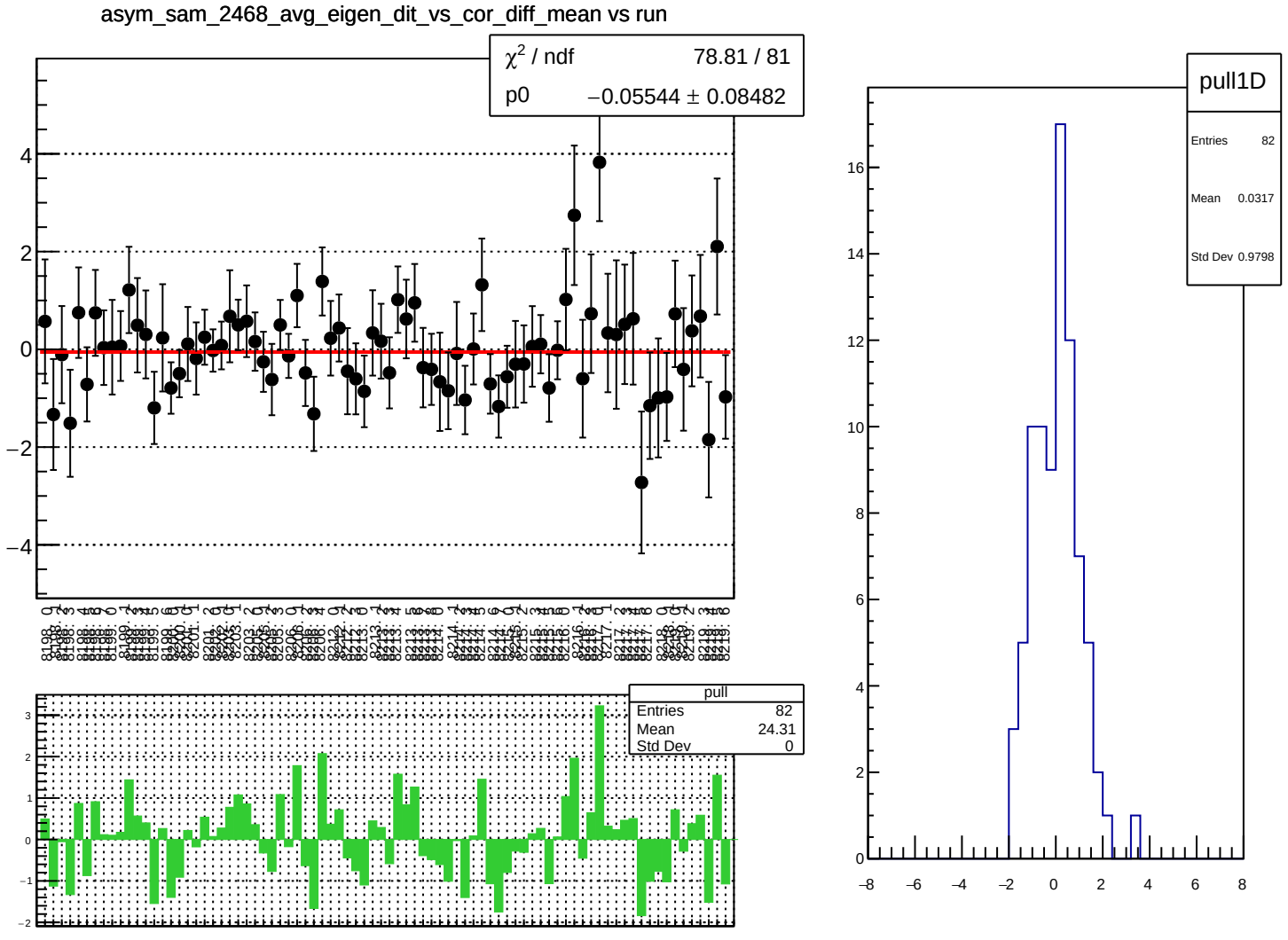

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 81
p0 73.57 ± 0.05998
140
120
100
80
60
40

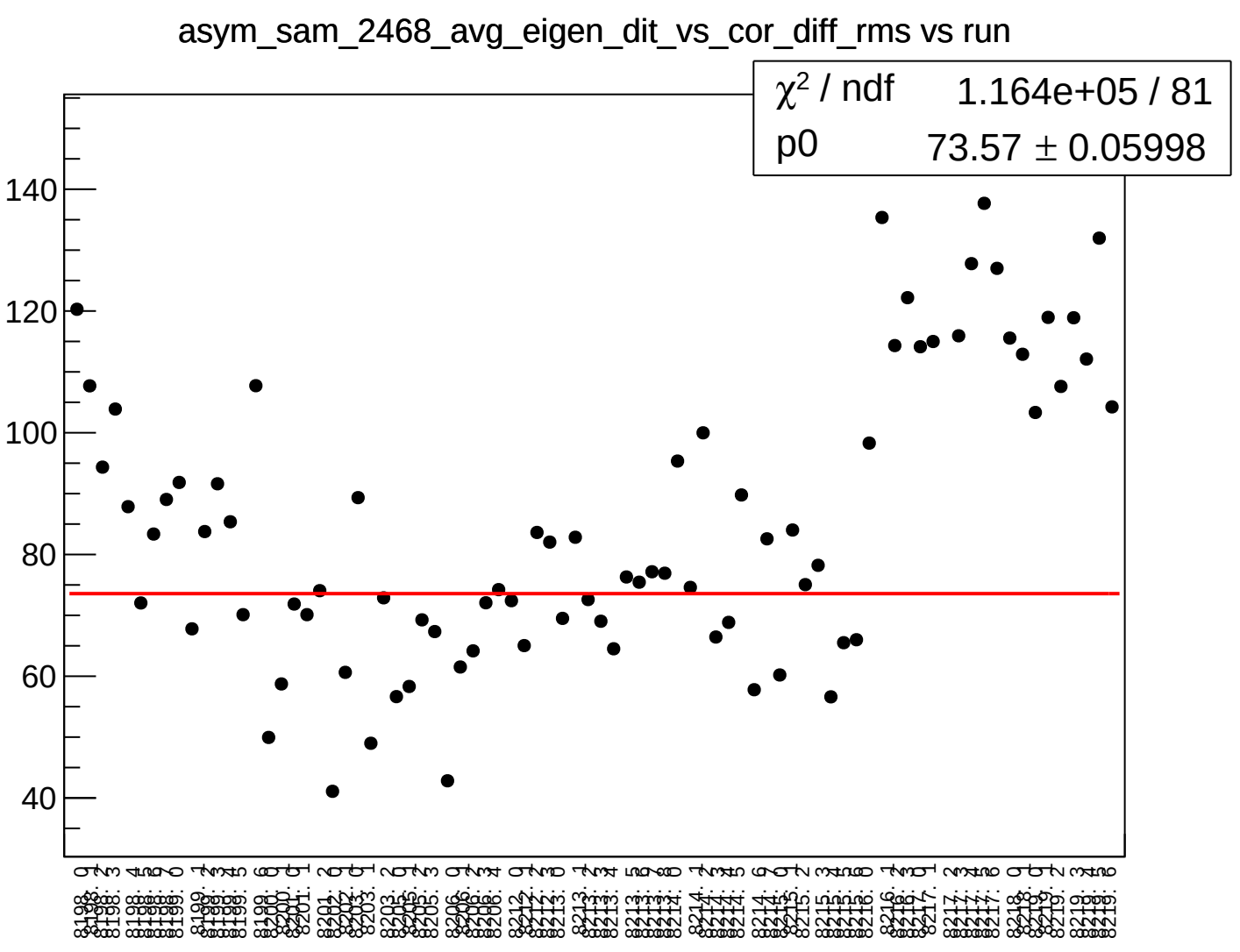

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.81 / 81
p0 −0.05544 ± 0.08482
pull
Entries 82
Mean 24.31
Std Dev 0
pull1D
Entries 82
Mean 0.0317
Std Dev 0.9798

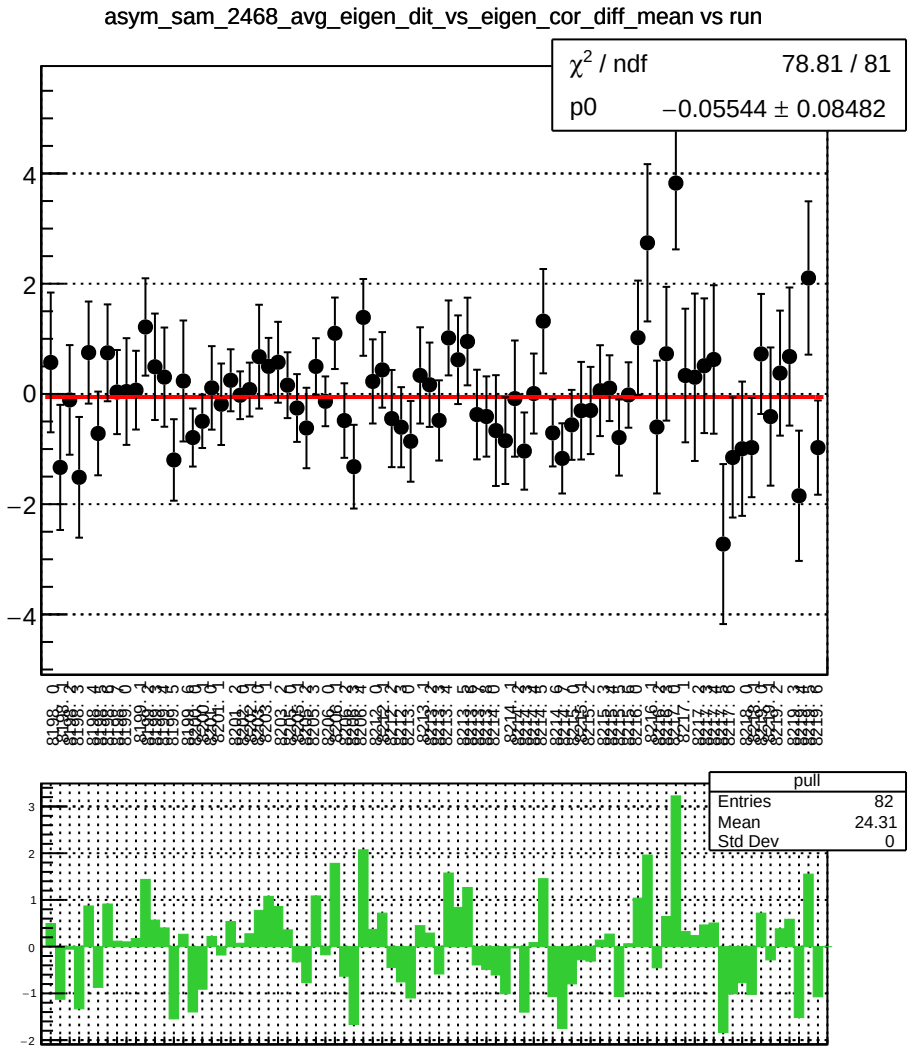

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 81
p0 73.57 ± 0.05998
140
120
100
80
60
40

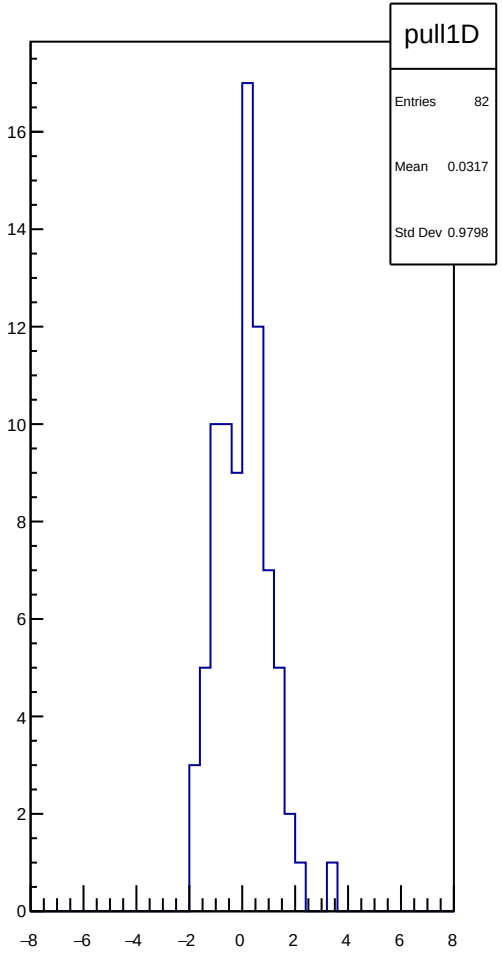

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.54 / 81
p0 1.118e−06 ± 2.113e−06
pull
Entries 82
Mean 146.8
Std Dev 0
pull1D
Entries 82
Mean 0.03384
Std Dev 1.027

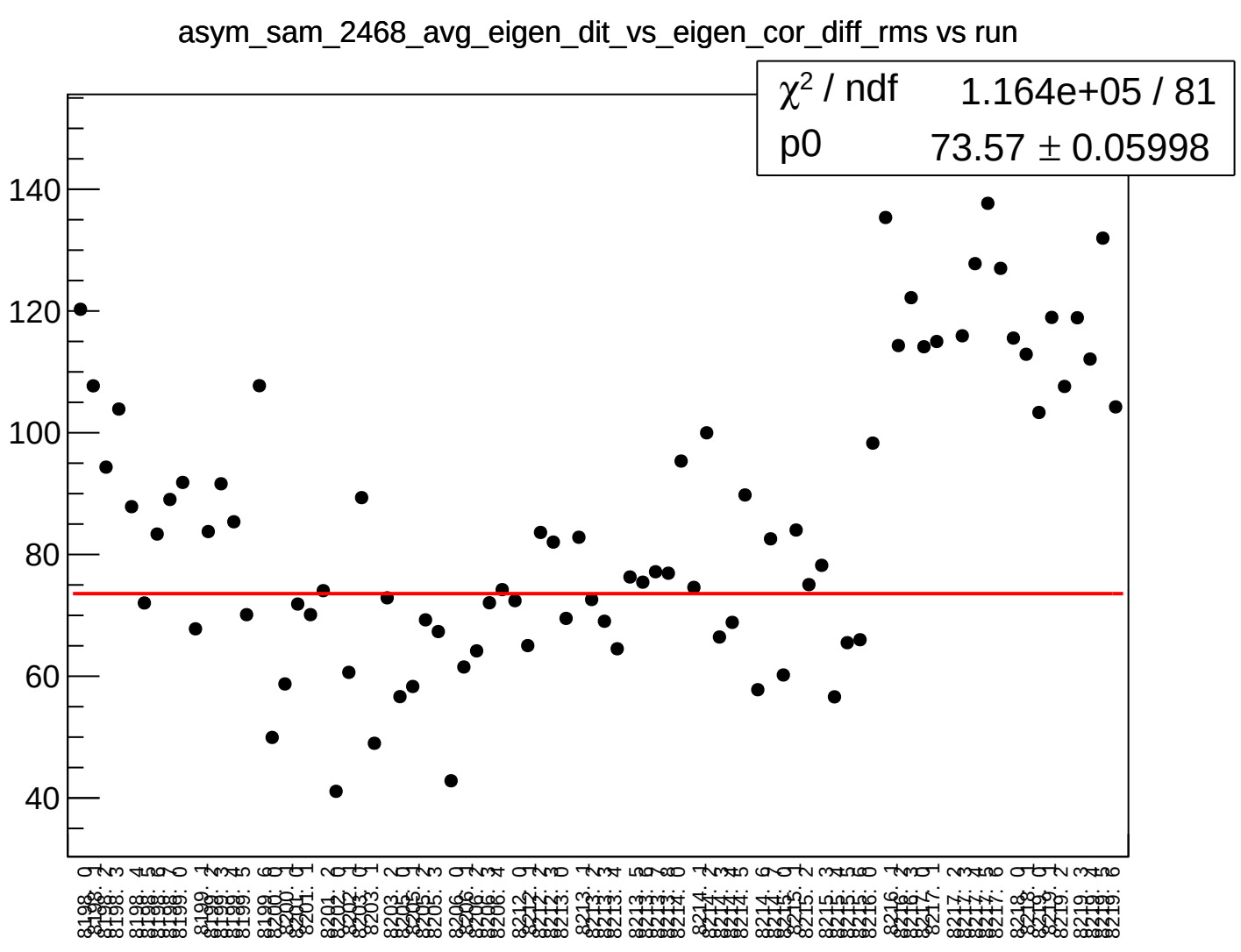

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.949e+04 / 81
p0 0.001849 ± 1.494e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

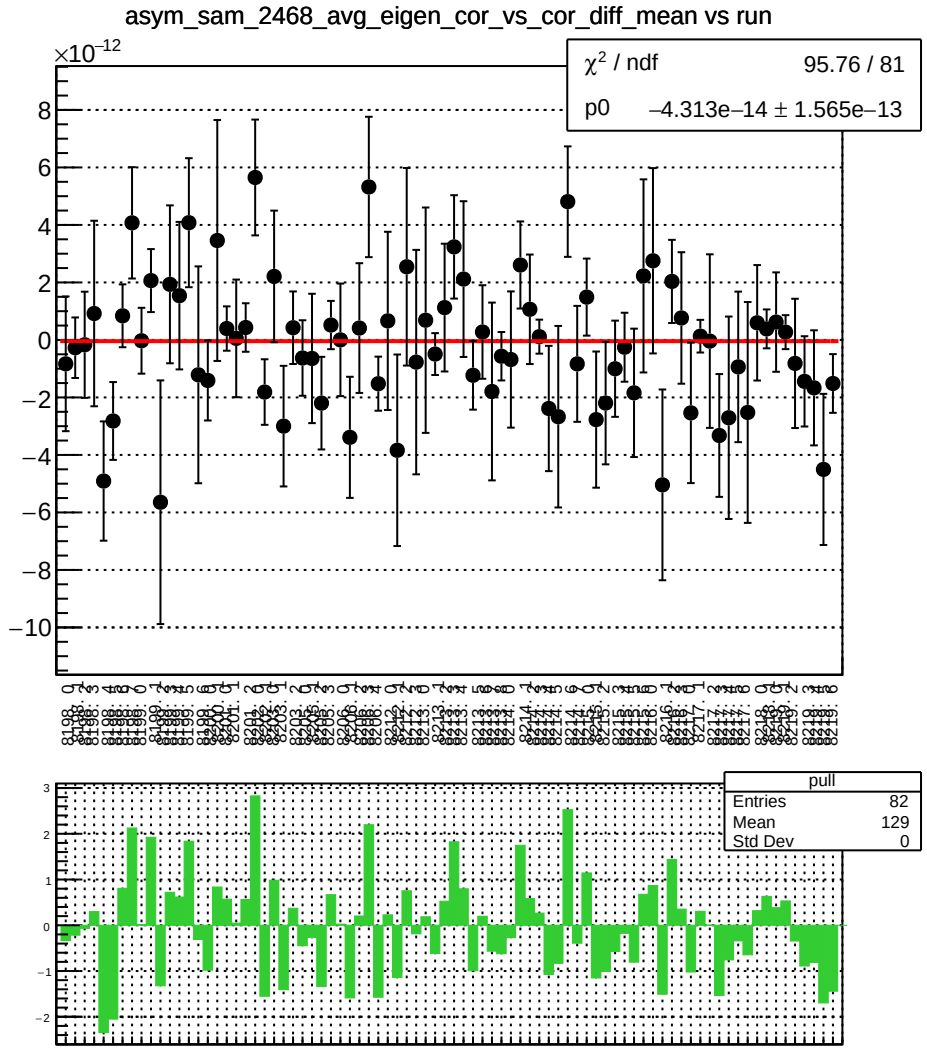

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.81 / 81
p0 −0.05544 ± 0.08482
pull
Entries 82
Mean 24.31
Std Dev 0
pull1D
Entries 82
Mean 0.0317
Std Dev 0.9798

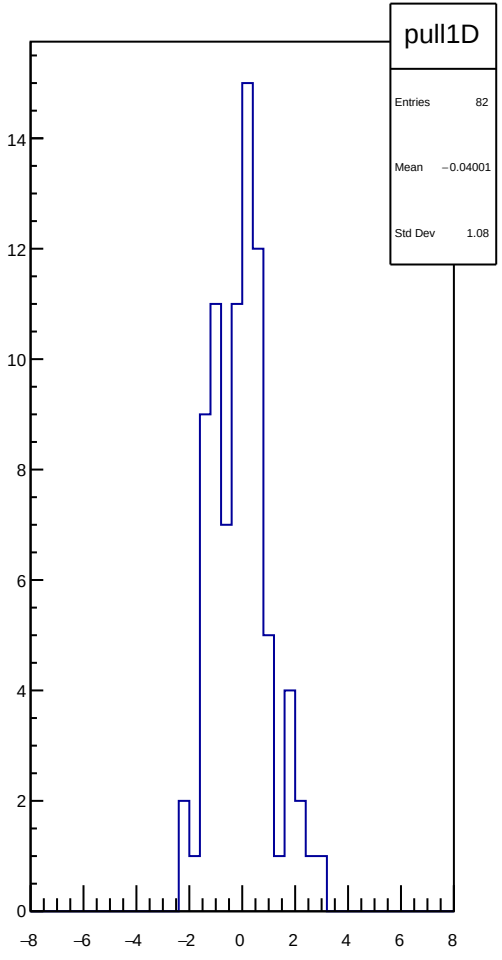

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 81
p0 73.57 ± 0.05998
140
120
100
80
60
40

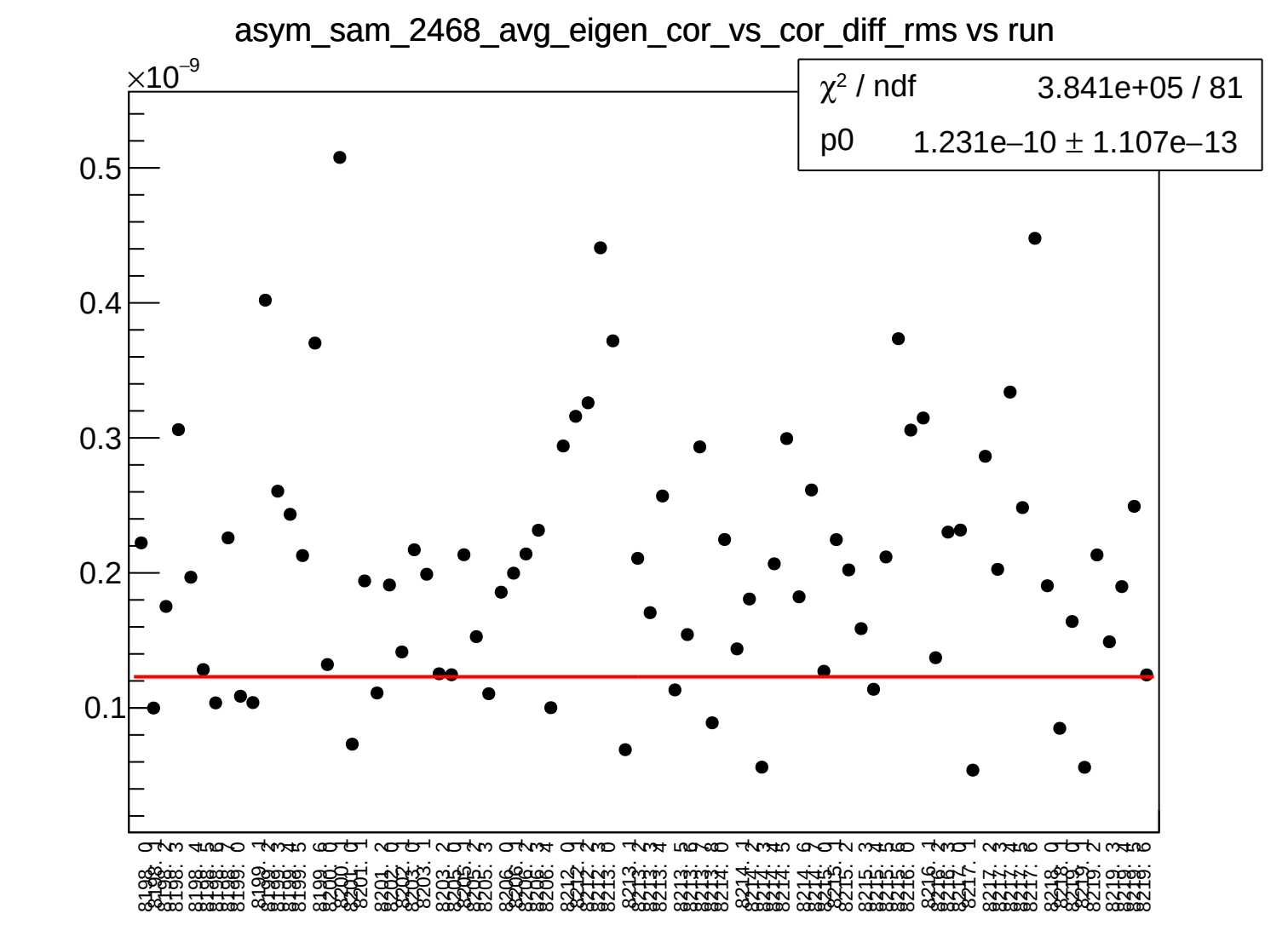

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.81 / 81
p0 −0.05544 ± 0.08482
pull
Entries 82
Mean 24.31
Std Dev 0

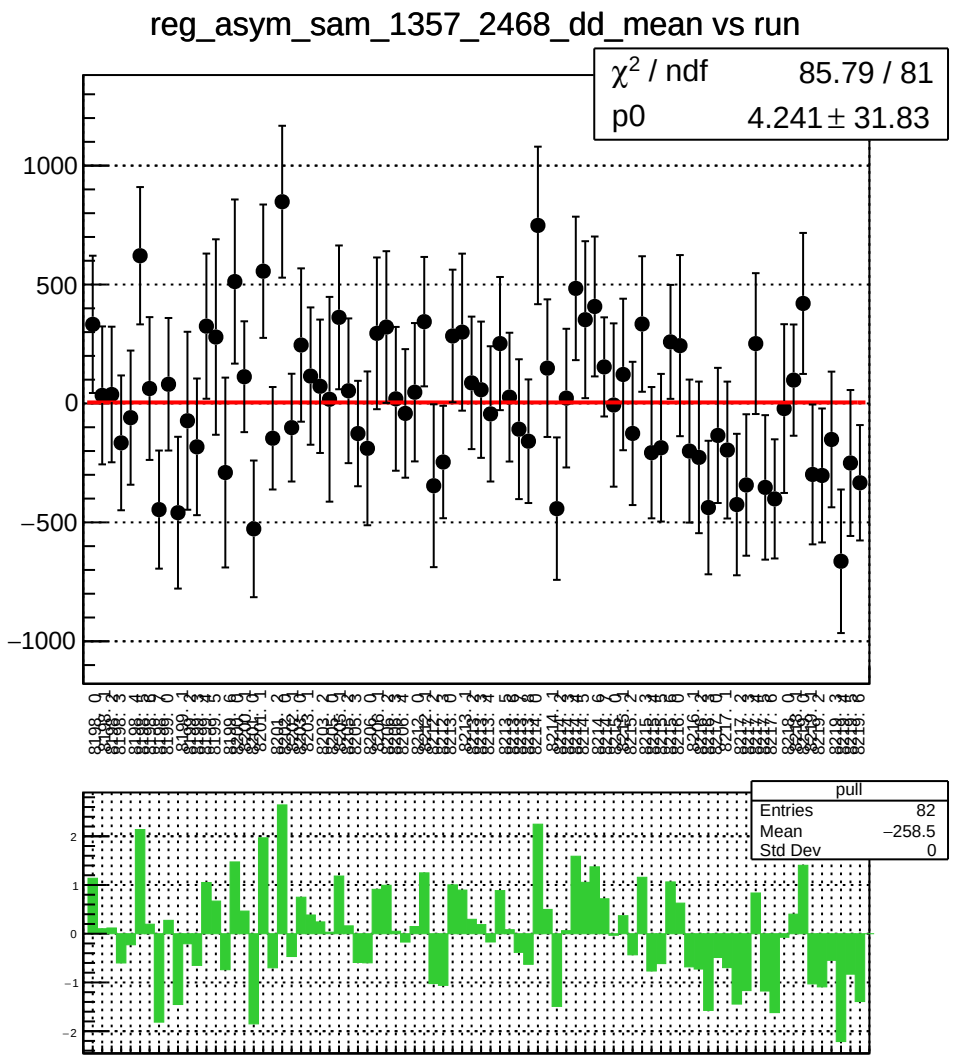

pull1D
Entries 82
Mean 0.0317
Std Dev 0.9798

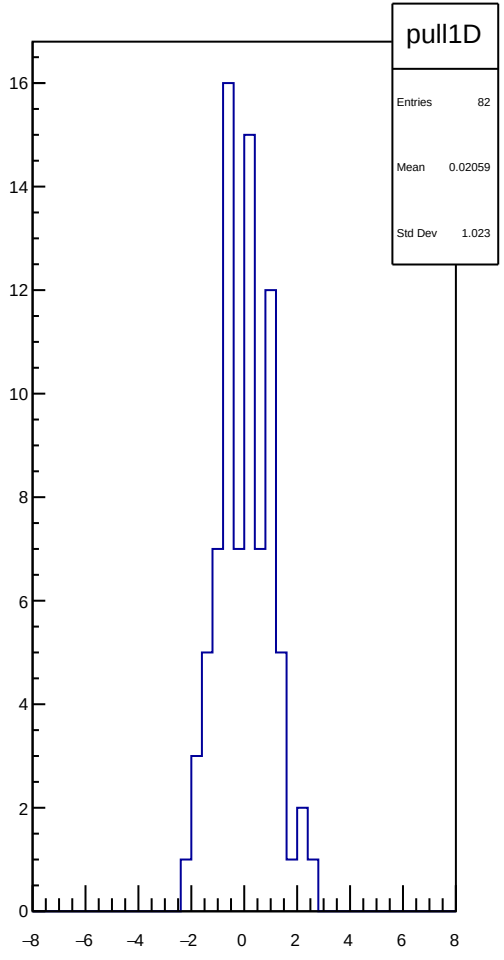

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.164e+05 / 81
p0 73.57 ± 0.05998
140
120
100
80
60
40

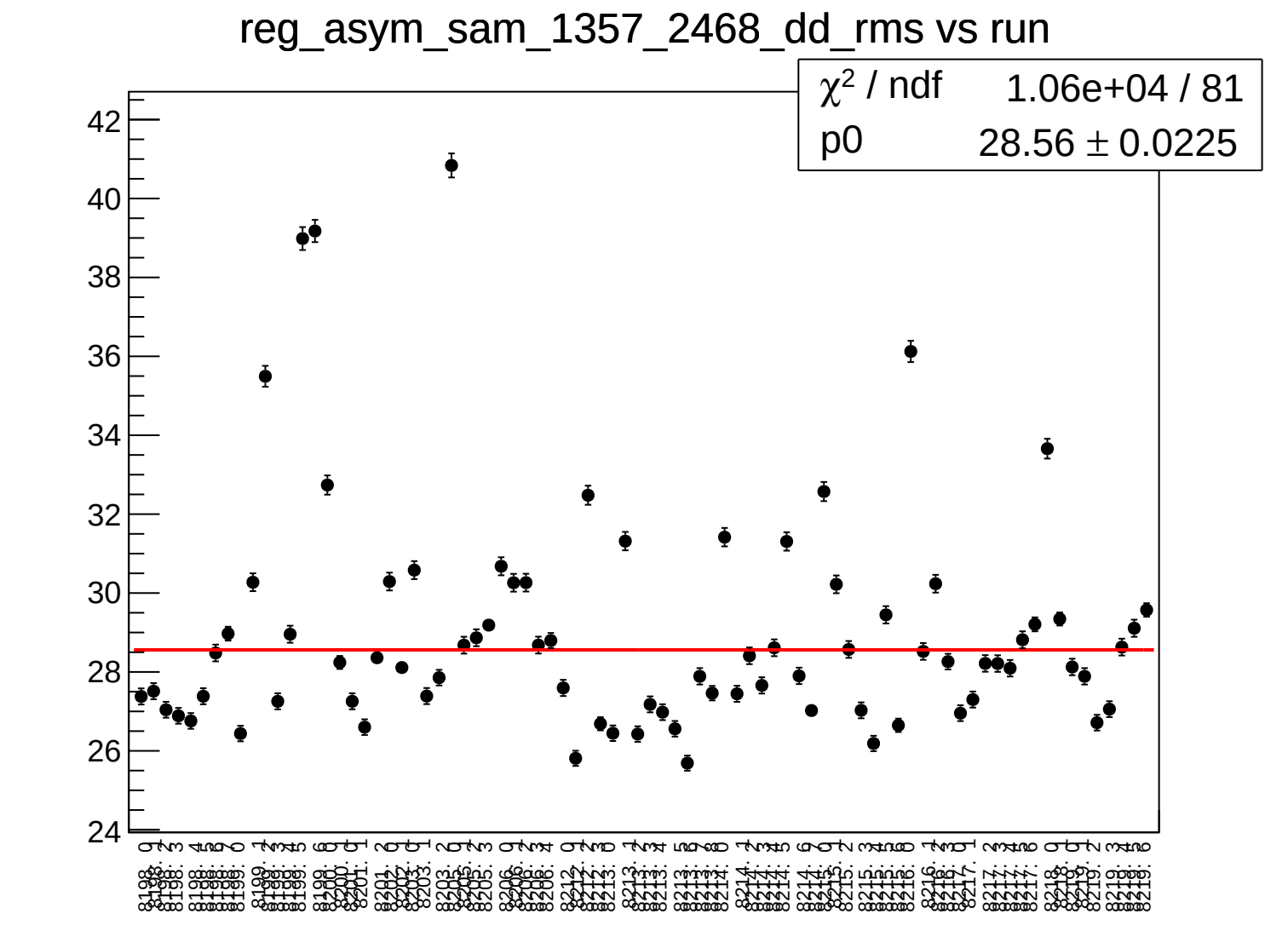

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.76 / 81
p0 −4.313e−14 ± 1.565e−13
pull
Entries 82
Mean 129
Std Dev 0

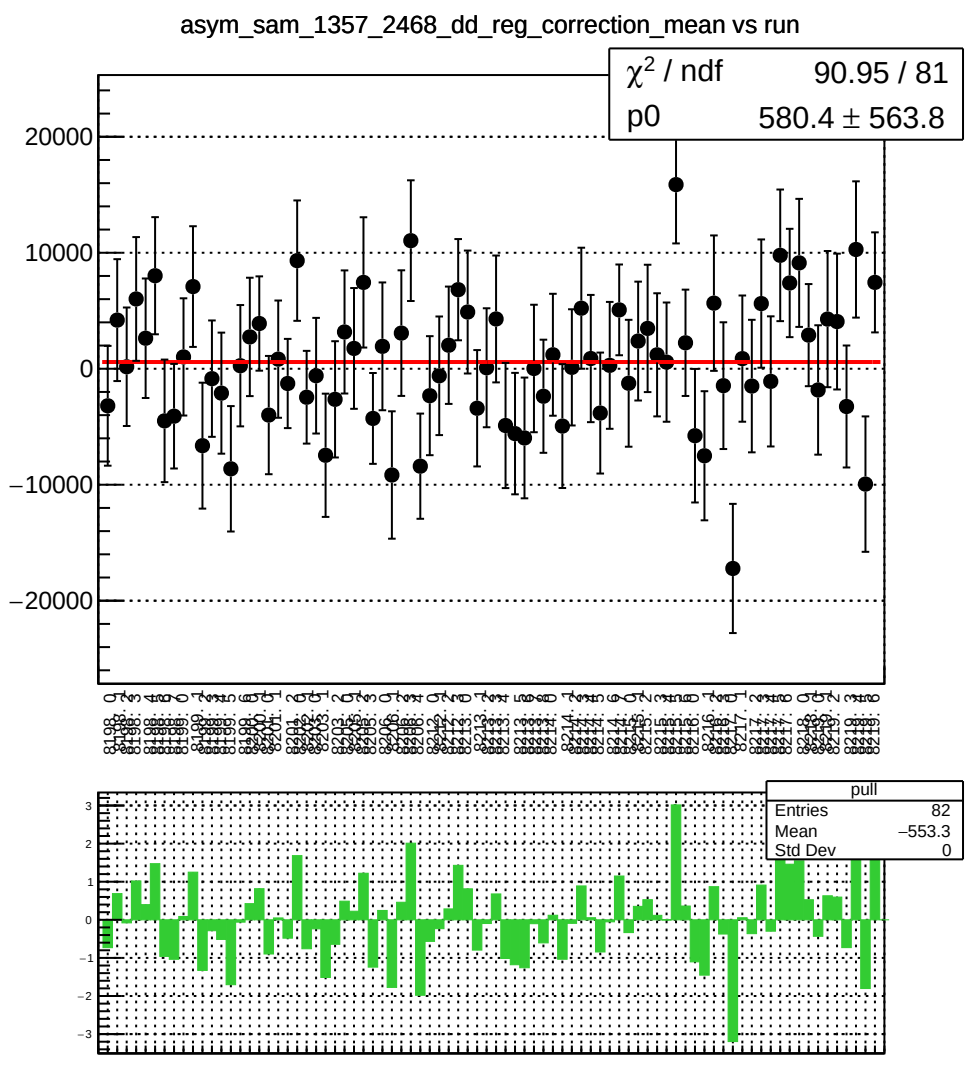

pull1D
Entries 82
Mean −0.04001
Std Dev 1.08

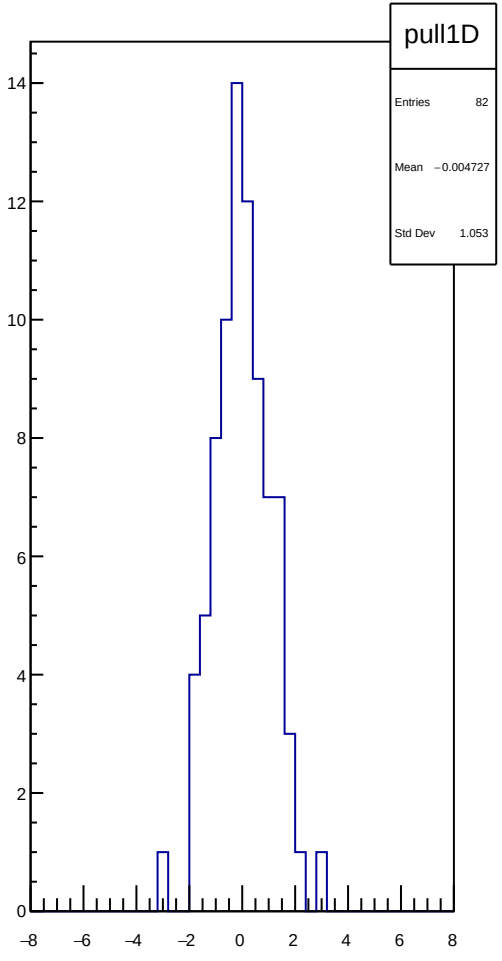

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.841e+05 / 81
p0 1.231e−10 ± 1.107e−13
0.5
0.4
0.3
0.2
0.1

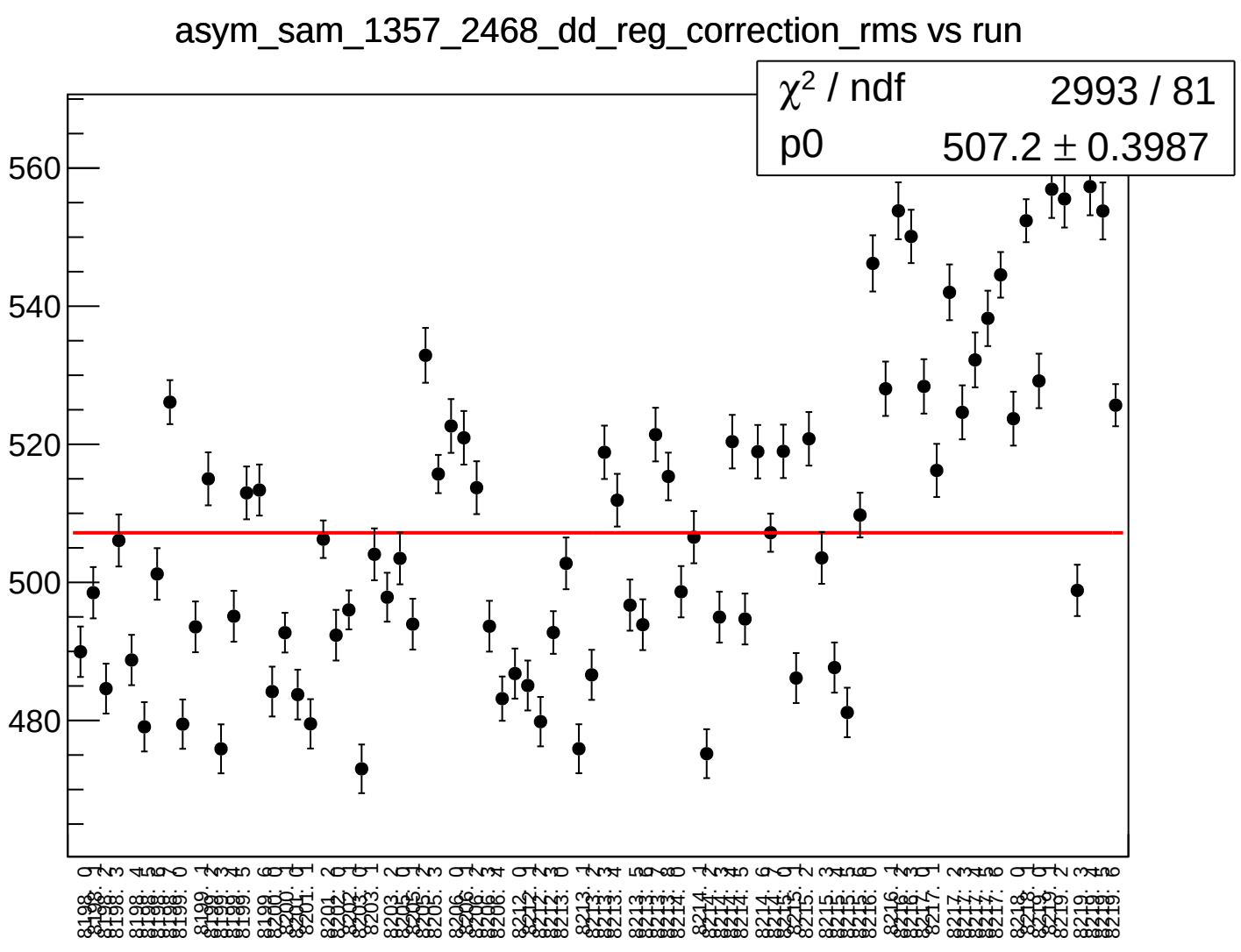

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 85.79 / 81
p0 4.241 ± 31.83
1000
500
0
−500
−1000
pull
Entries 82
Mean −258.5
Std Dev 0
2
1
0
−1
−2

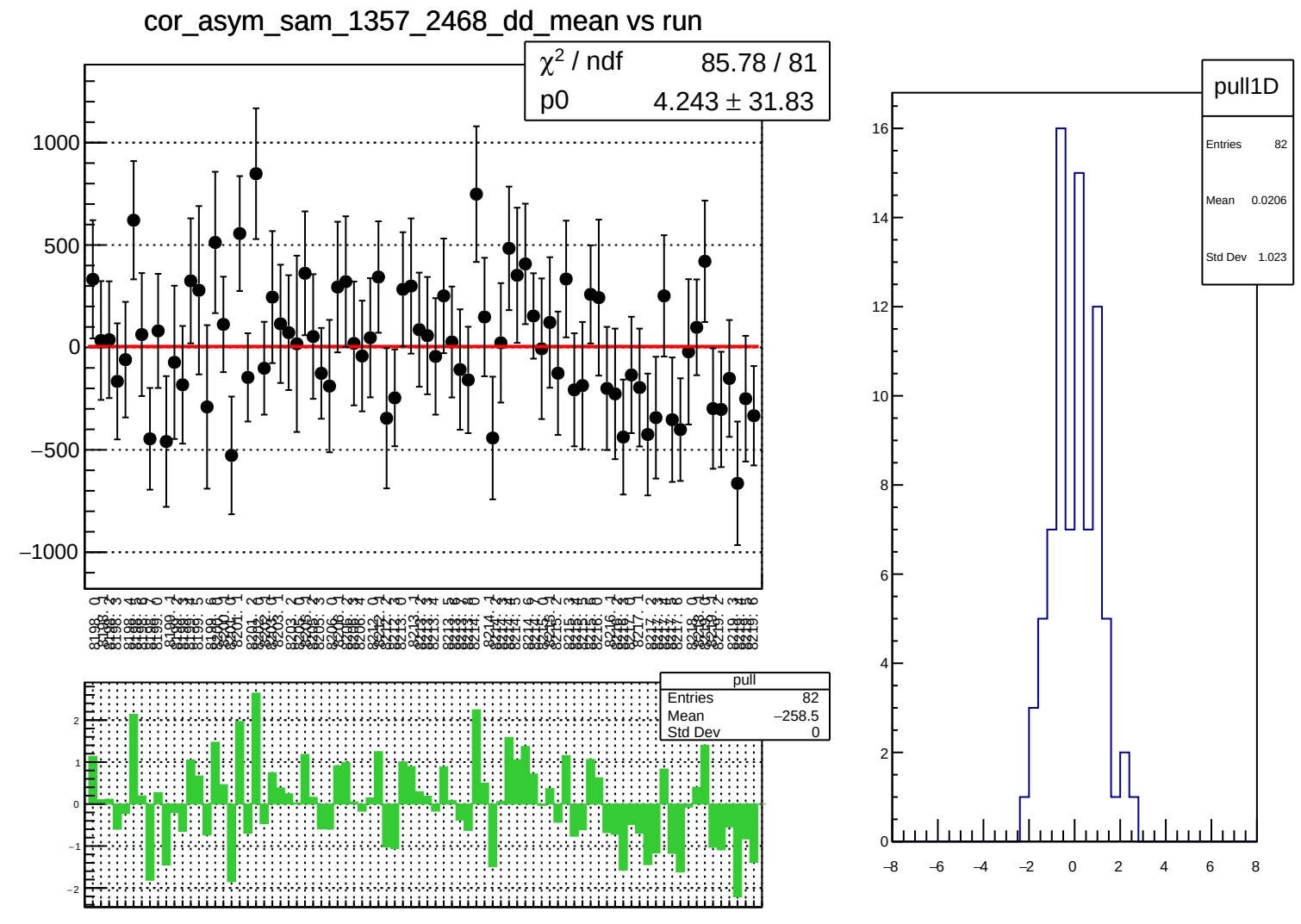

pull1D
Entries 82
Mean 0.02059
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

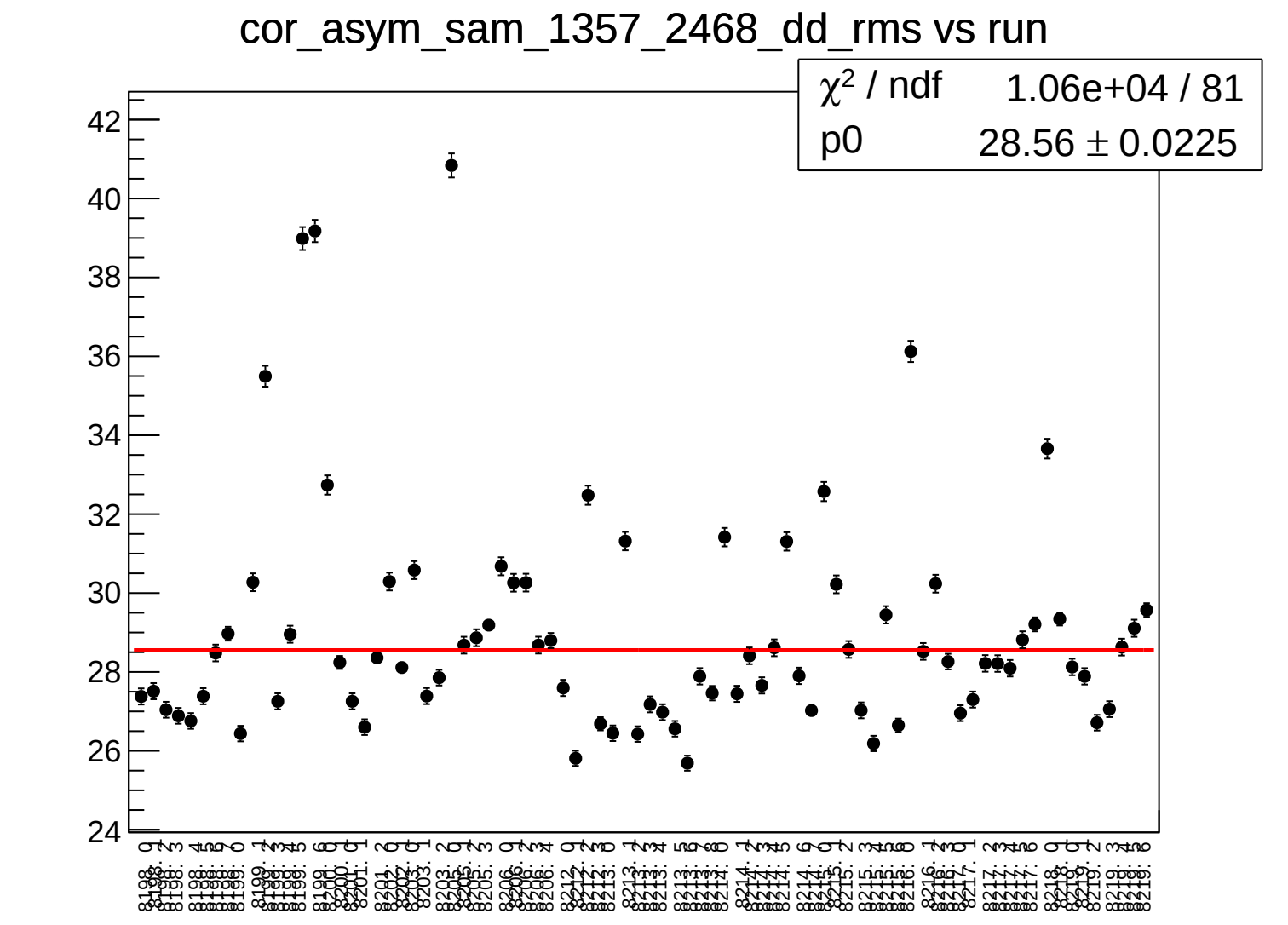

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.06e+04 / 81
p0 28.56 ± 0.0225
42
40
38
36
34
32
30
28
26
24

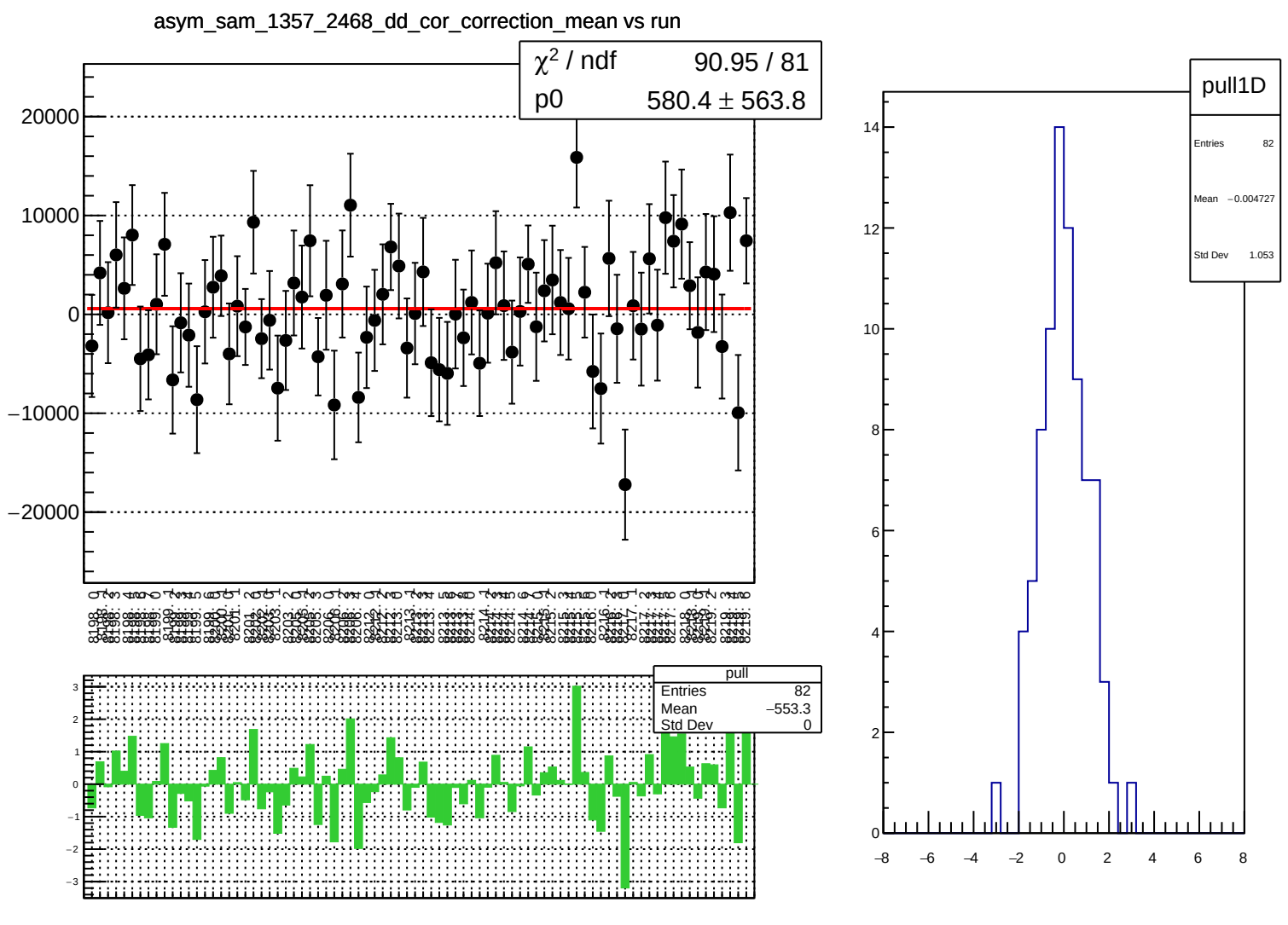

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 90.95 / 81
p0 580.4 ± 563.8
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −553.3
Std Dev 0
3
2
1
0
−1
−2
−3

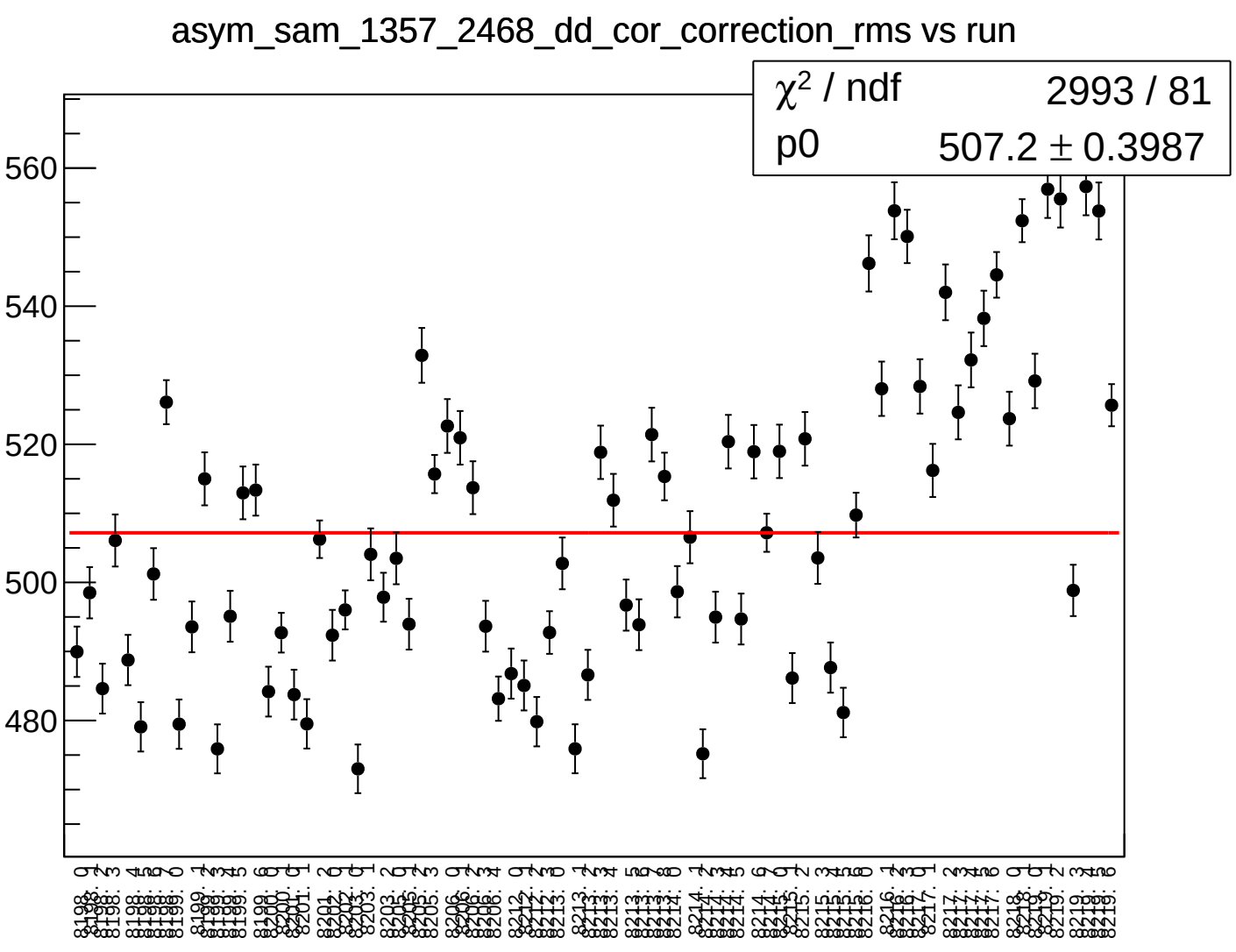

pull1D
Entries 82
Mean −0.004727
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

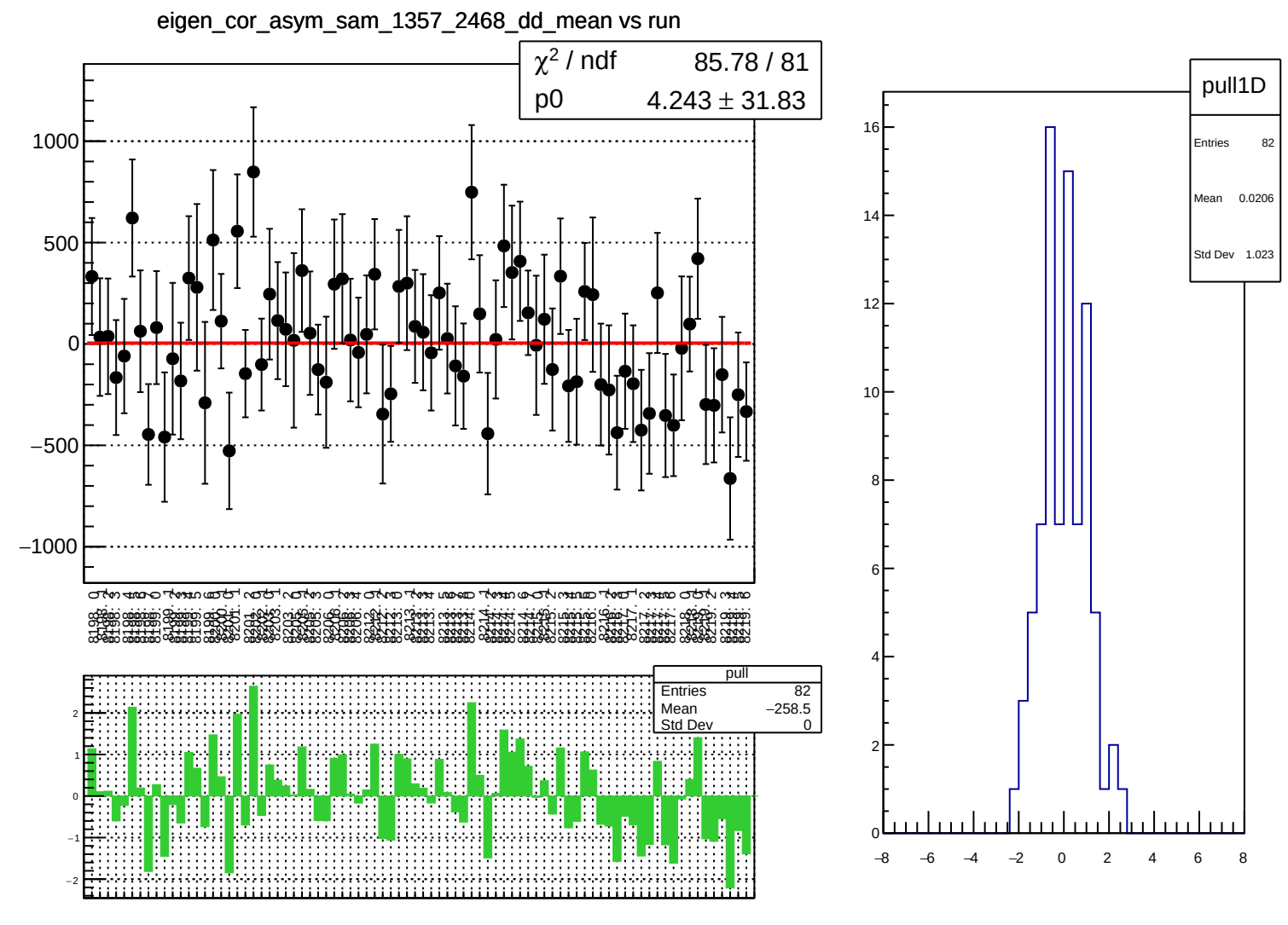

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 2993 / 81
p0 507.2 ± 0.3987
560
540
520
500
480

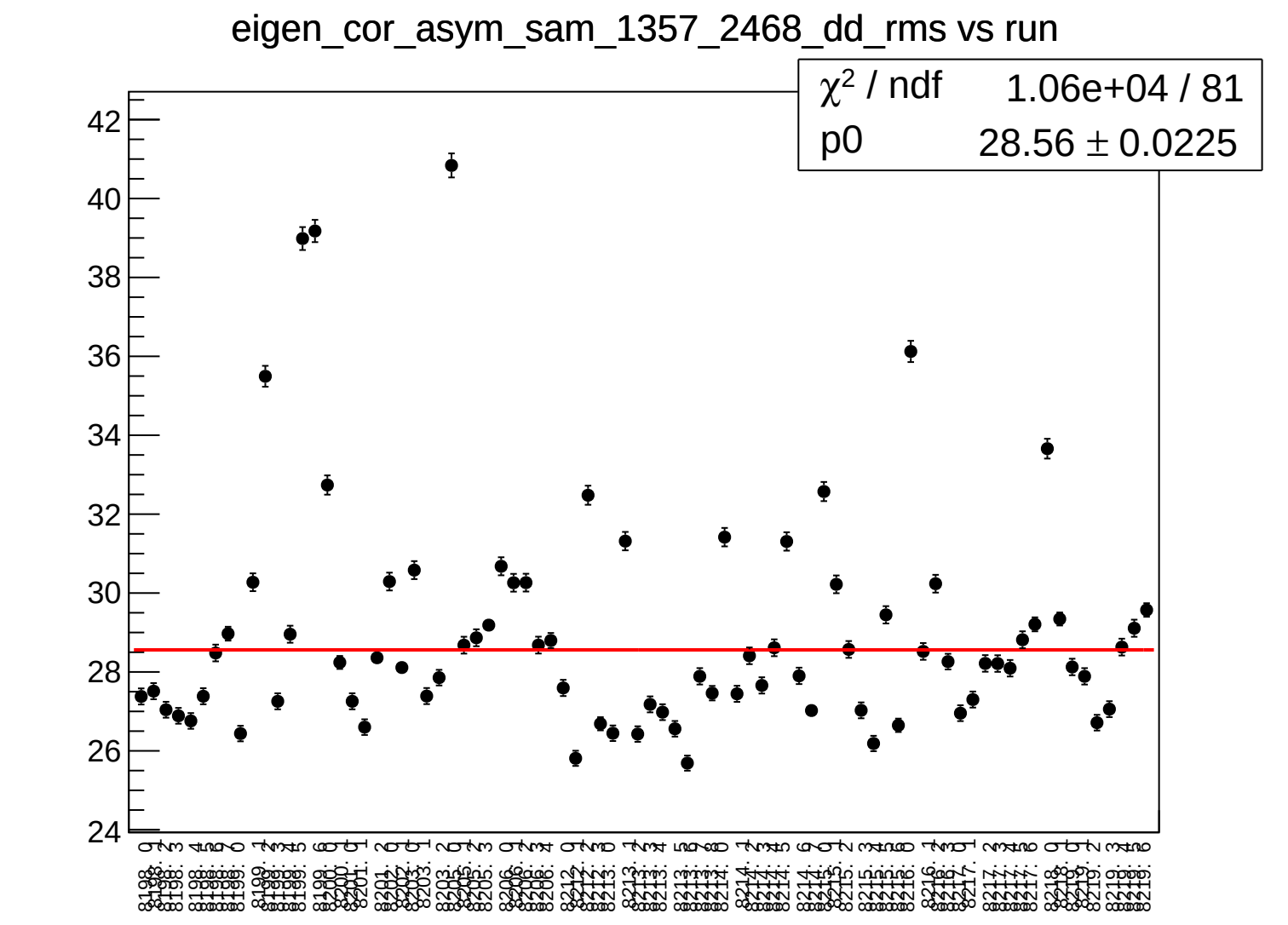

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 85.78 / 81
p0 4.243 ± 31.83
1000
500
0
−500
−1000
pull
Entries 82
Mean −258.5
Std Dev 0
pull1D
Entries 82
Mean 0.0206
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

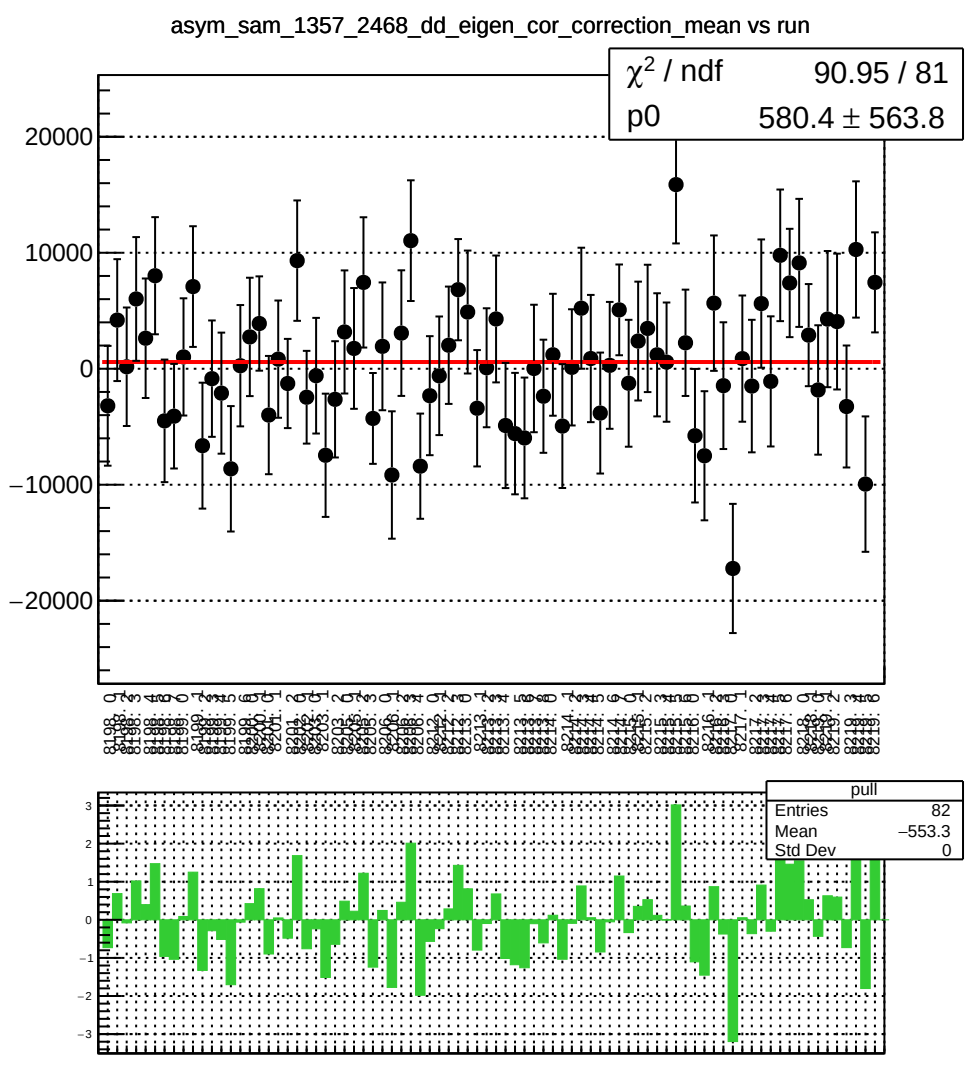

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.06e+04 / 81
p0 28.56 ± 0.0225
42
40
38
36
34
32
30
28
26
24

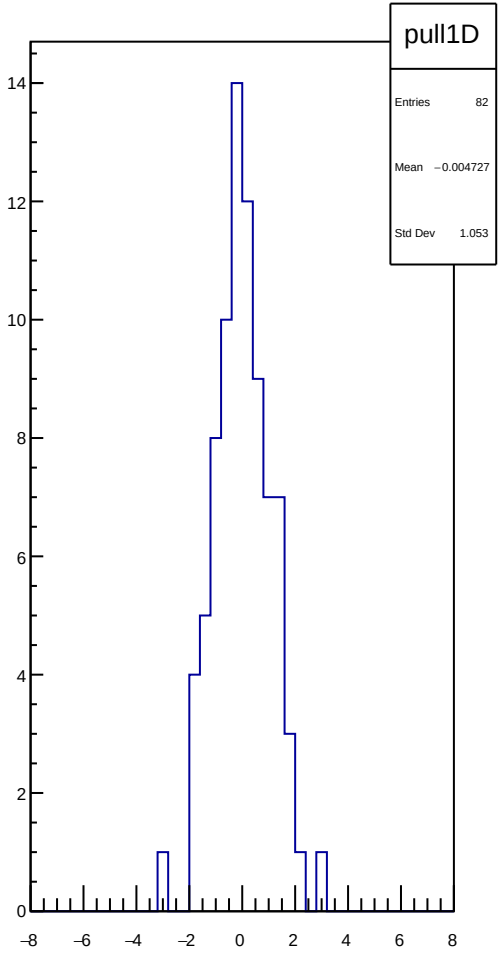

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 90.95 / 81
p0 580.4 ± 563.8
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −553.3
Std Dev 0
pull1D
Entries 82
Mean −0.004727
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

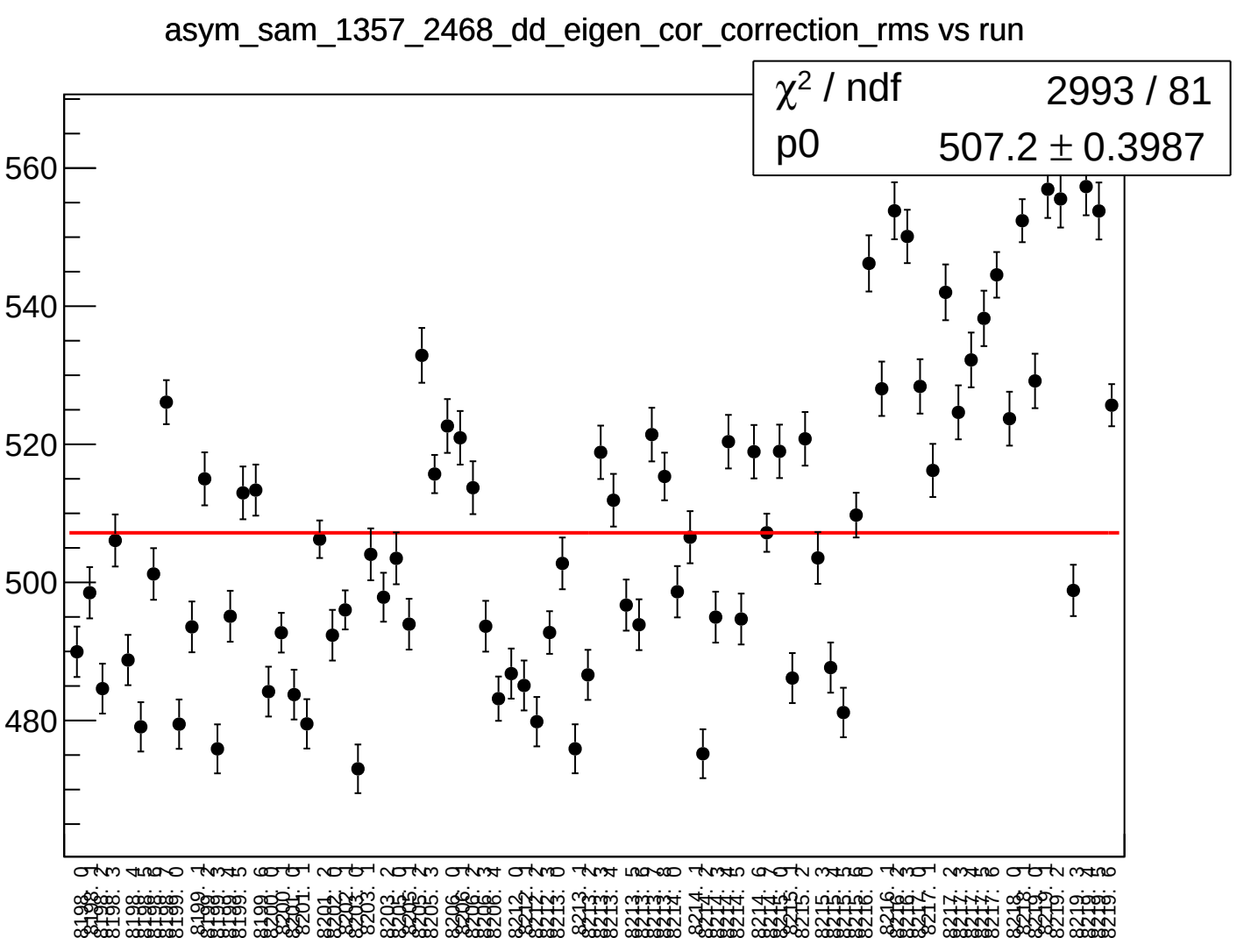

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 2993 / 81
p0 507.2 ± 0.3987
560
540
520
500
480

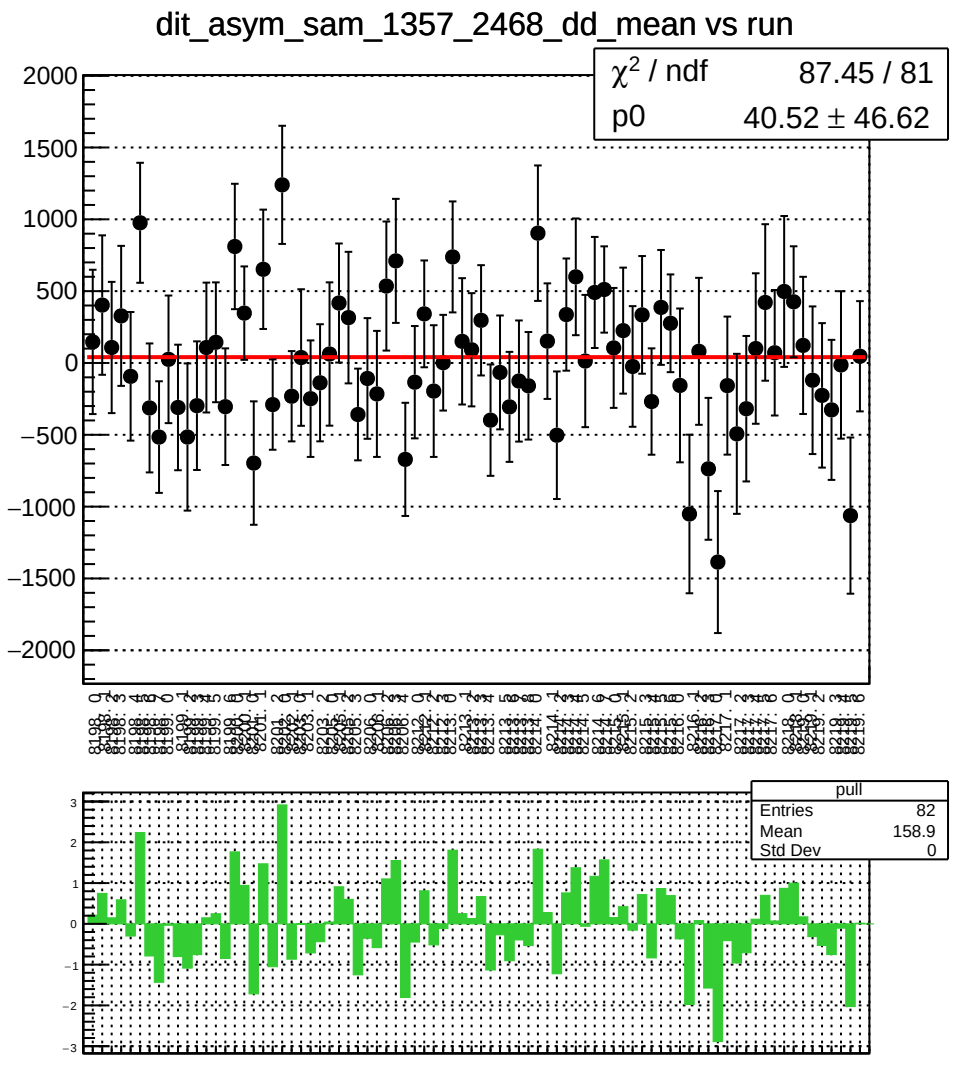

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 85.78 / 81
p0 4.243 ± 31.83
1000
500
0
−500
−1000
pull
Entries 82
Mean −258.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 82
Mean 0.0206
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

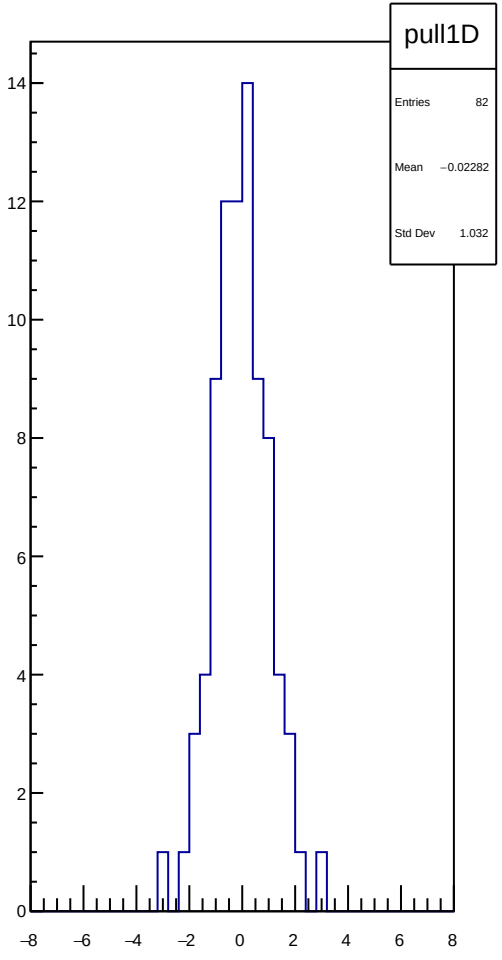

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.06e+04 / 81
p0 28.56 ± 0.0225
42
40
38
36
34
32
30
28
26
24

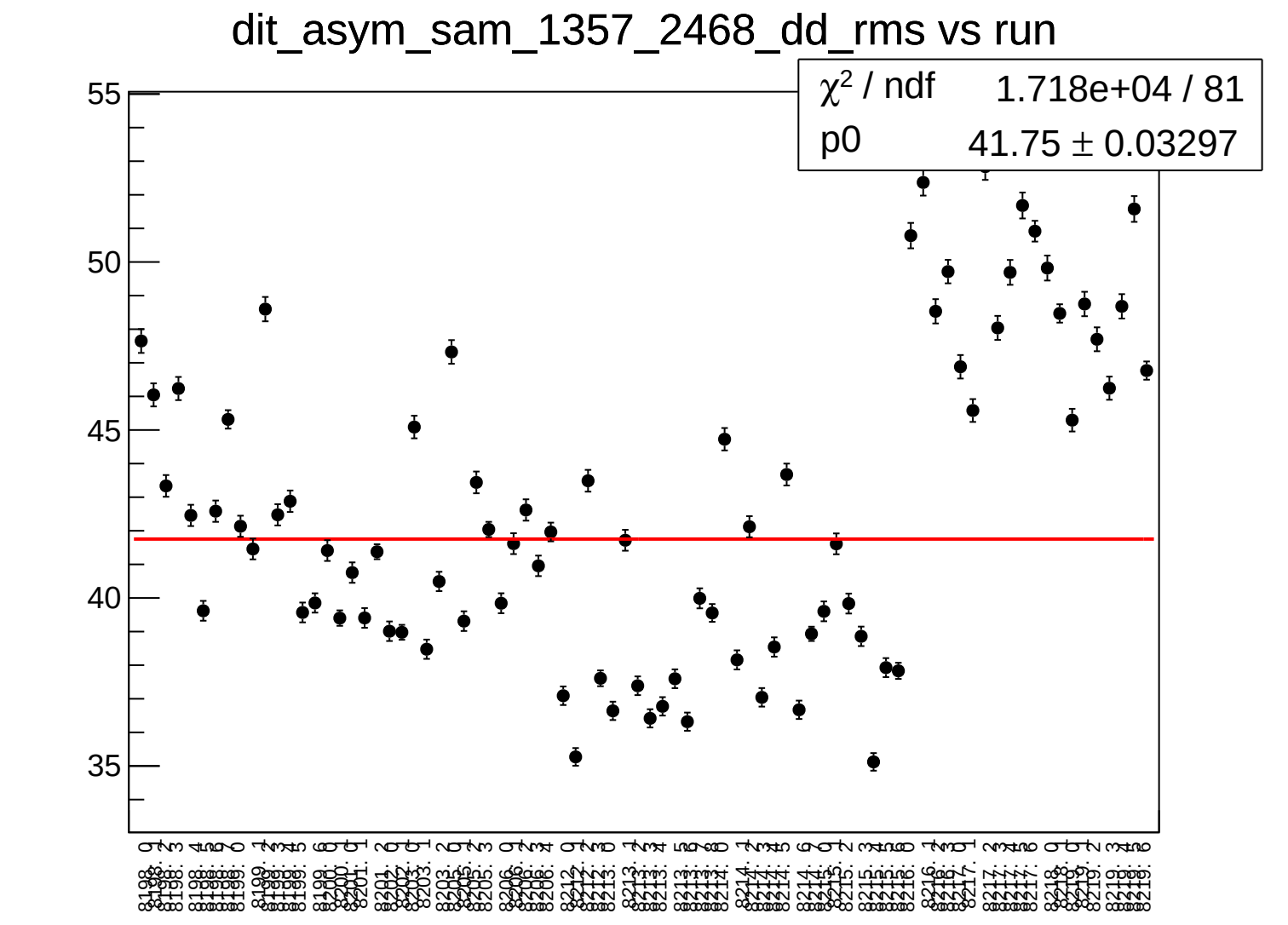

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.95 / 81
p0 580.4 ± 563.8
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −553.3
Std Dev 0
3
2
1
0
−1
−2
−3

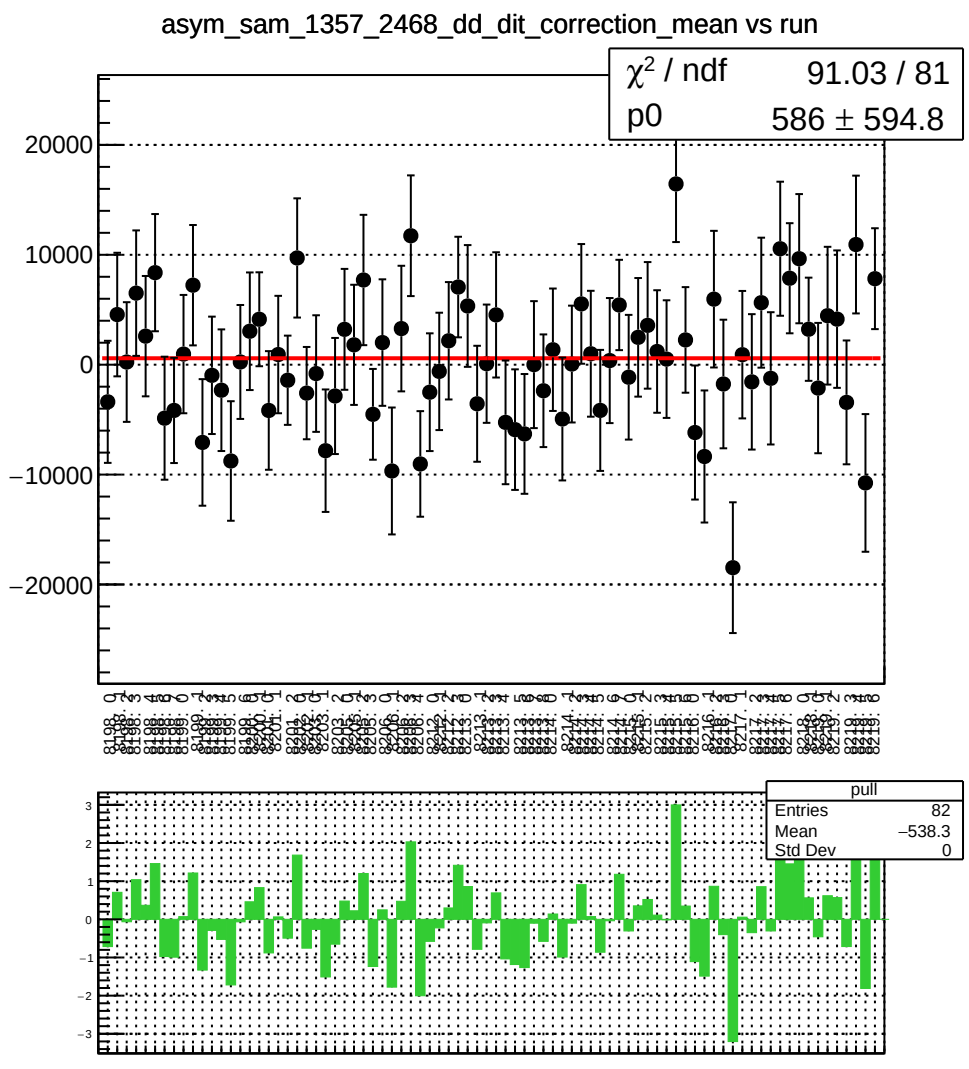

pull1D
Entries 82
Mean −0.004727
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

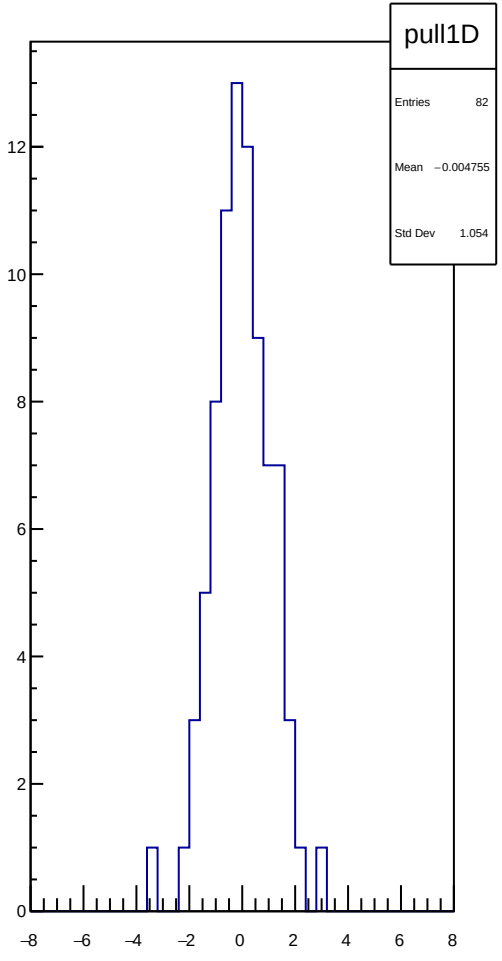

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 2993 / 81
p0 507.2 ± 0.3987
560
540
520
500
480

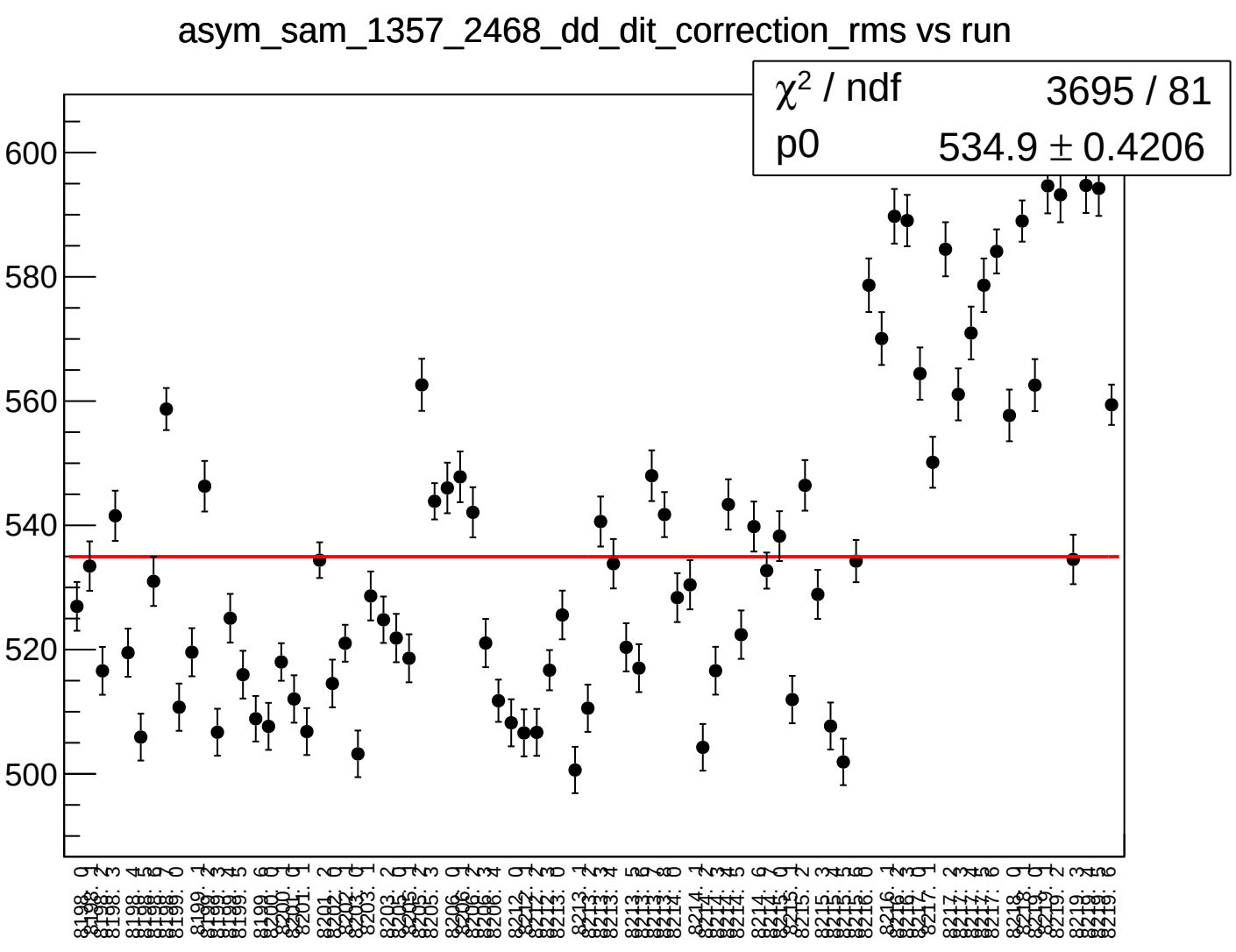

dit_asym_sam_1357_2468_dd_mean vs run
$\chi^2$ / ndf 87.45 / 81
p0 40.52 ± 46.62
pull
Entries 82
Mean 158.9
Std Dev 0

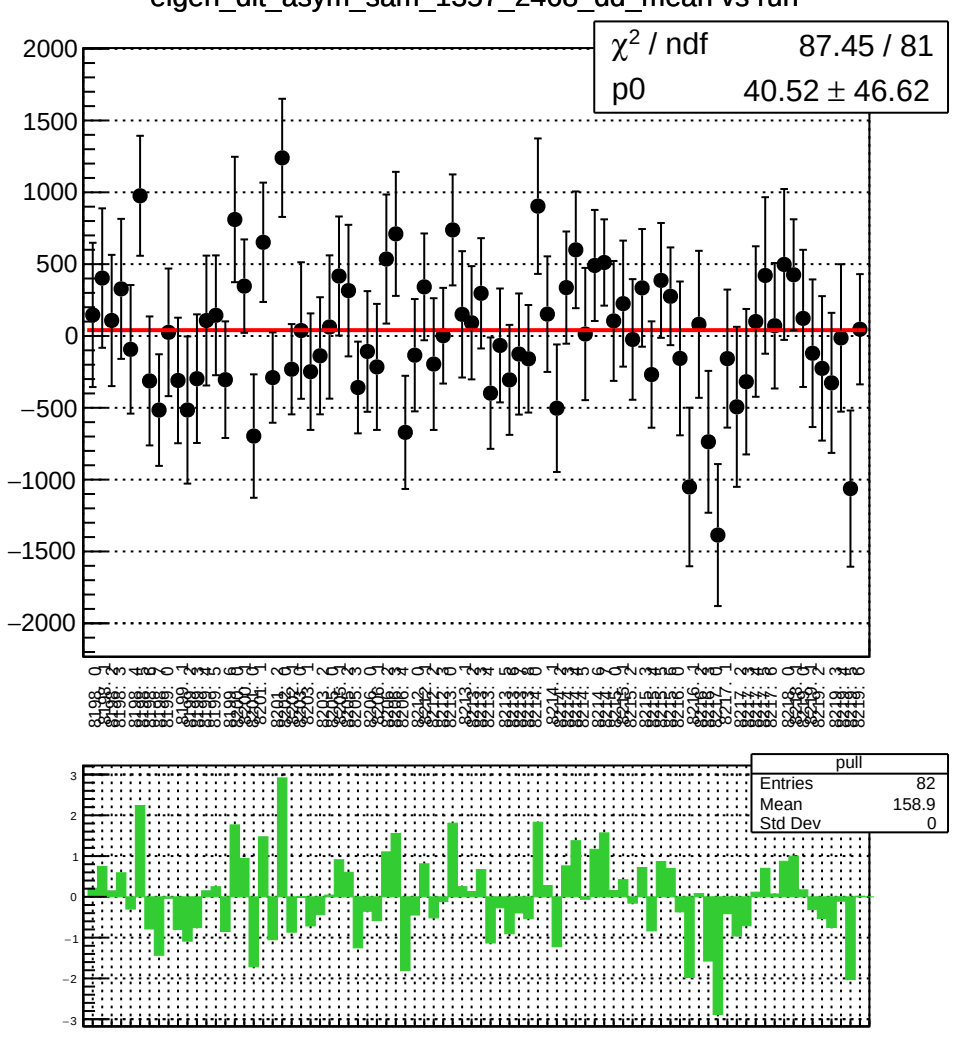

pull1D
Entries 82
Mean −0.02282
Std Dev 1.032

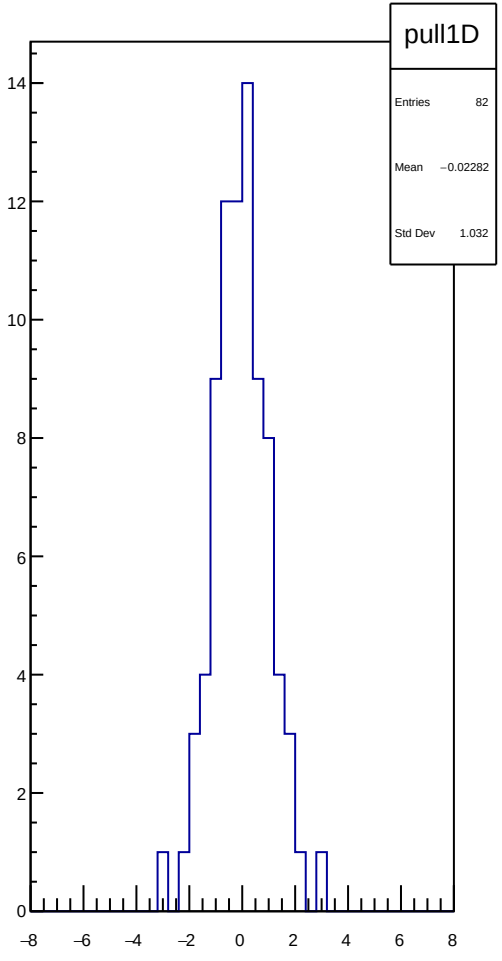

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.718e+04 / 81
p0 41.75 ± 0.03297
55
50
45
40
35

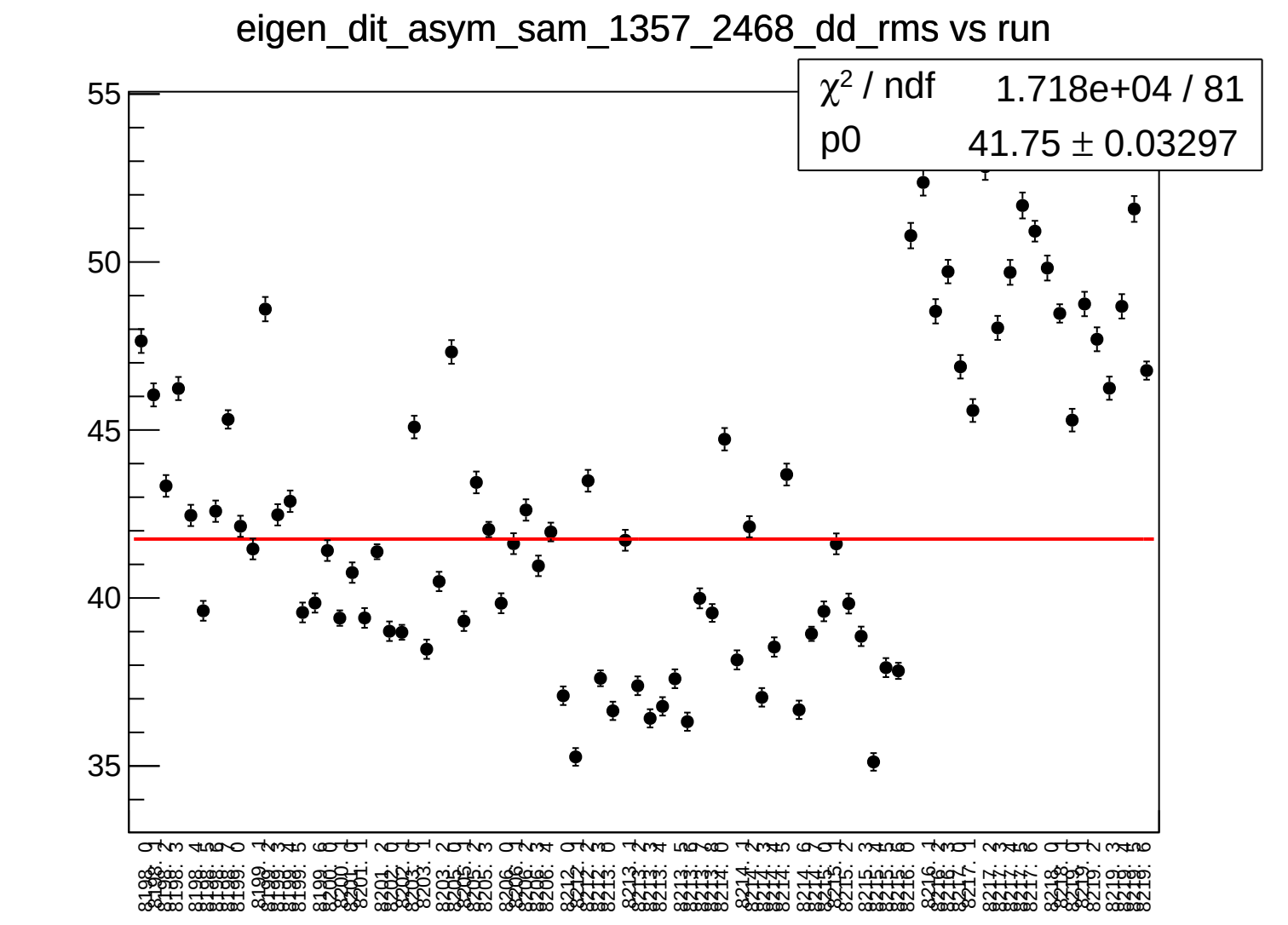

asym_sam_1357_2468_dd_dit_correction_mean vs run
$\chi^2$ / ndf 91.03 / 81
p0 586 ± 594.8
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −538.3
Std Dev 0
3
2
1
0
−1
−2
−3

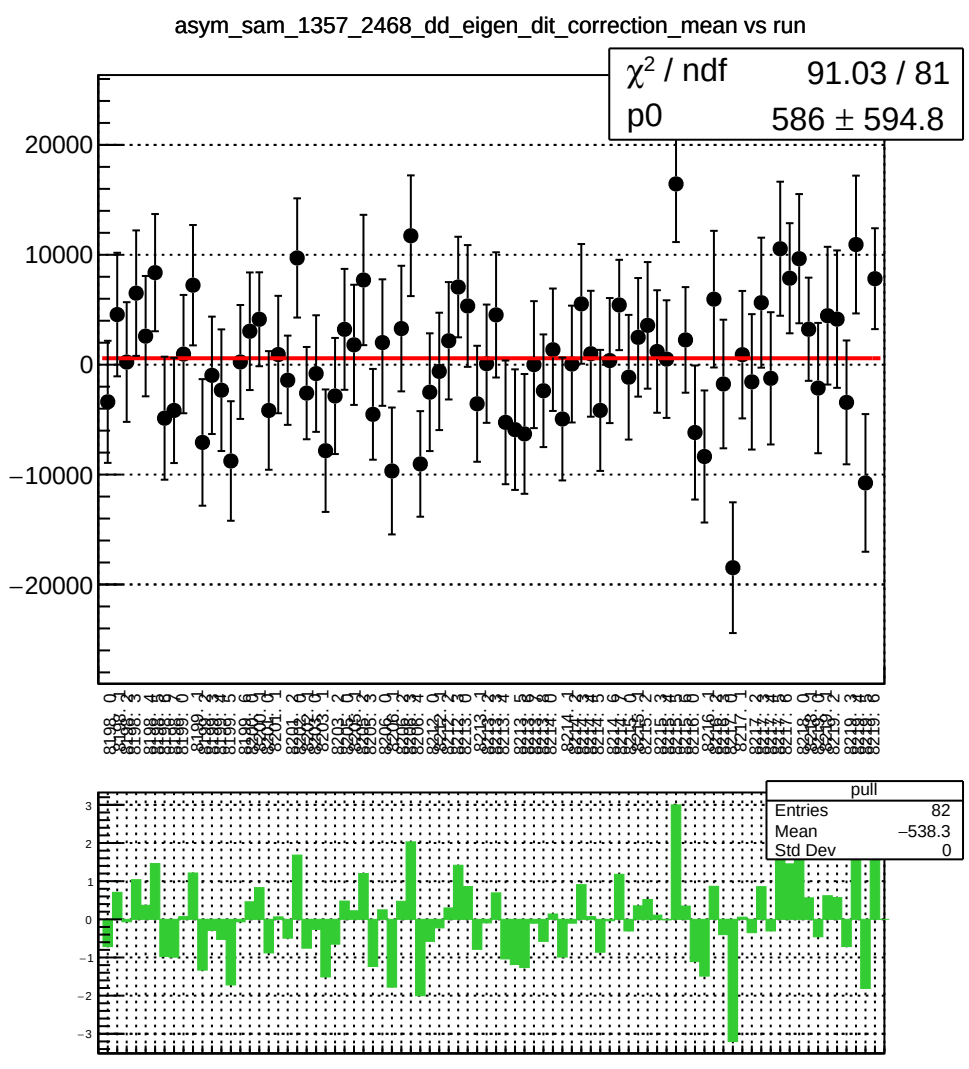

pull1D
Entries 82
Mean −0.004755
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

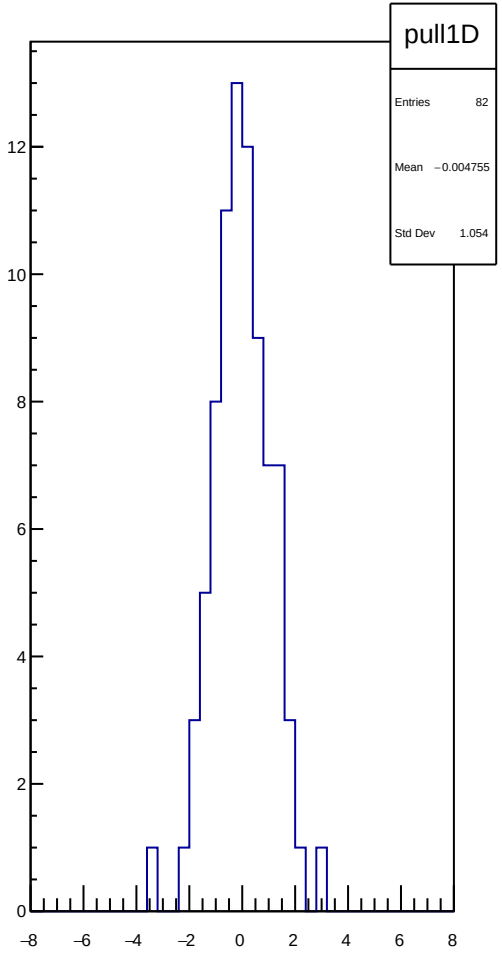

asym_sam_1357_2468_dd_dit_correction_rms vs run
$\chi^2$ / ndf 3695 / 81
p0 534.9 ± 0.4206
600
580
560
540
520
500

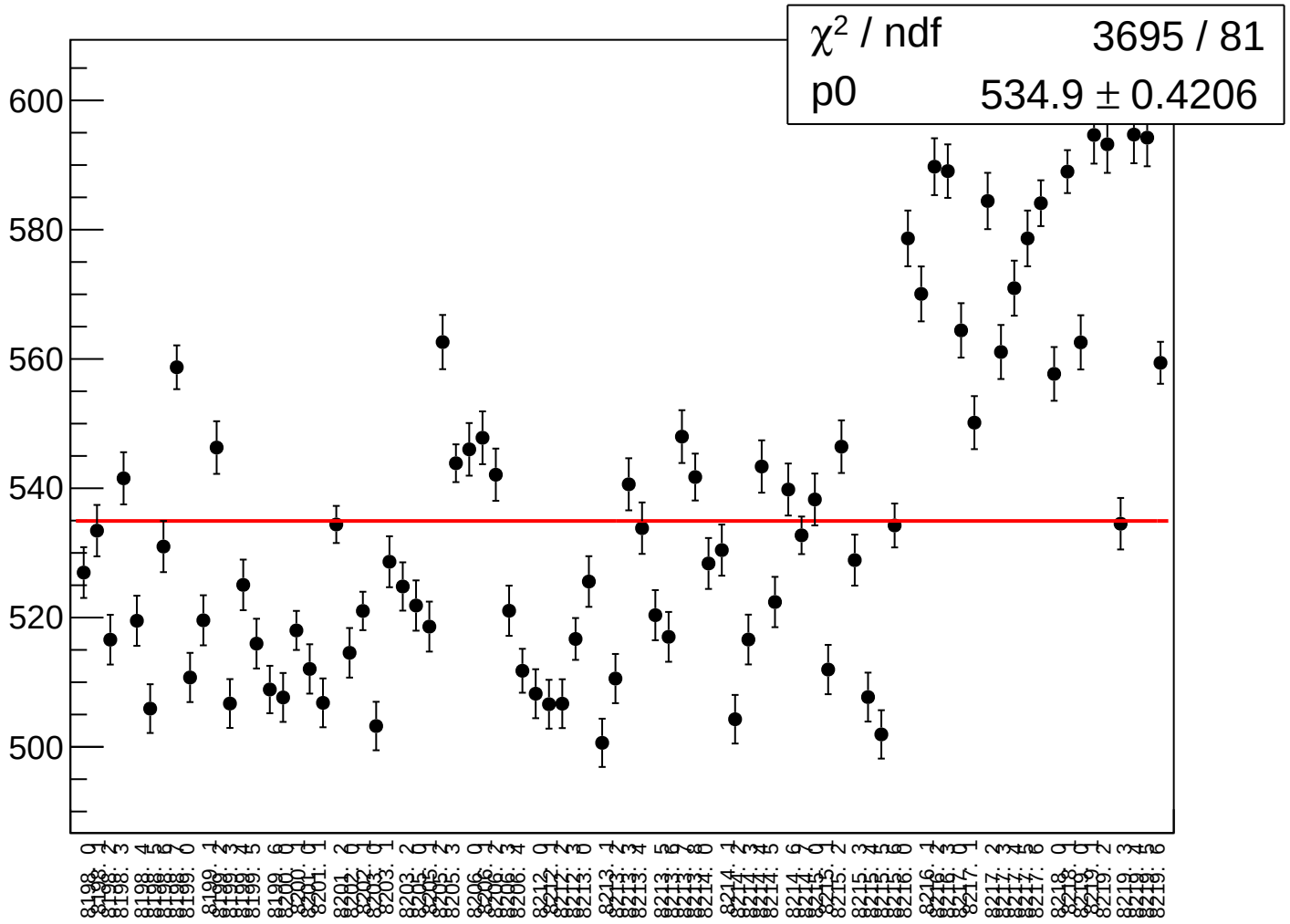

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 87.45 / 81
p0 40.52 ± 46.62
pull
Entries 82
Mean 158.9
Std Dev 0

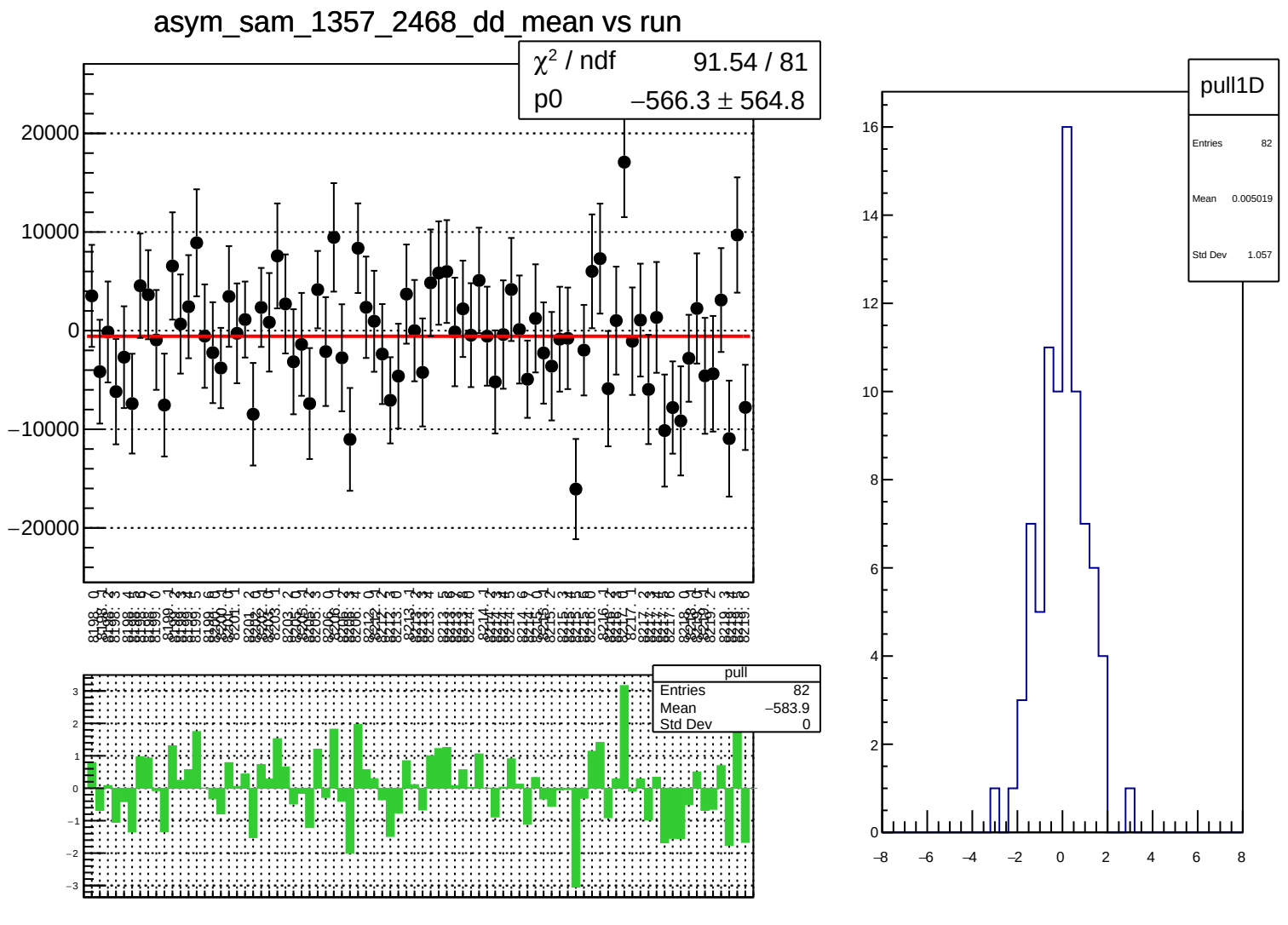

pull1D
Entries 82
Mean −0.02282
Std Dev 1.032

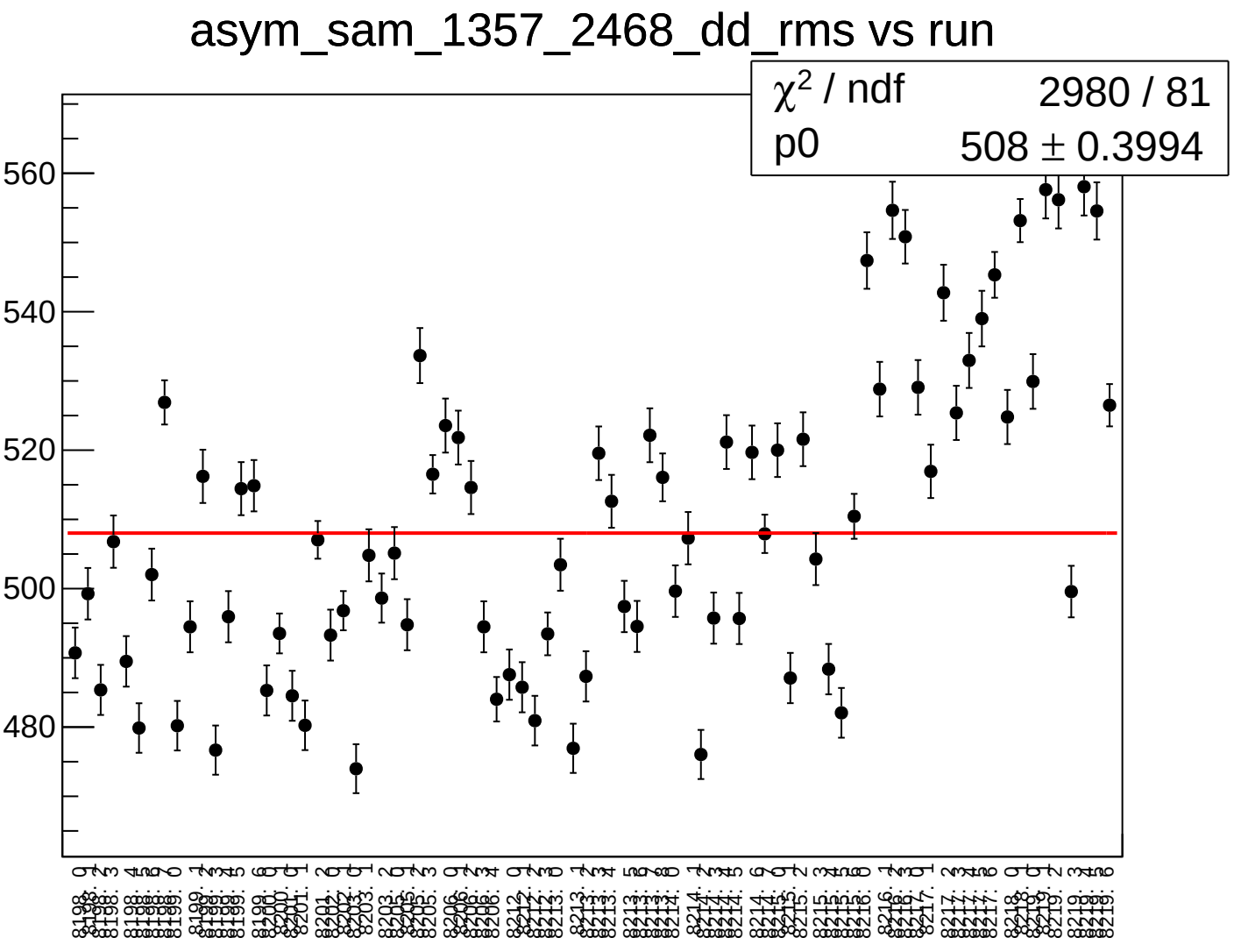

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.718e+04 / 81
p0 41.75 ± 0.03297
55
50
45
40
35

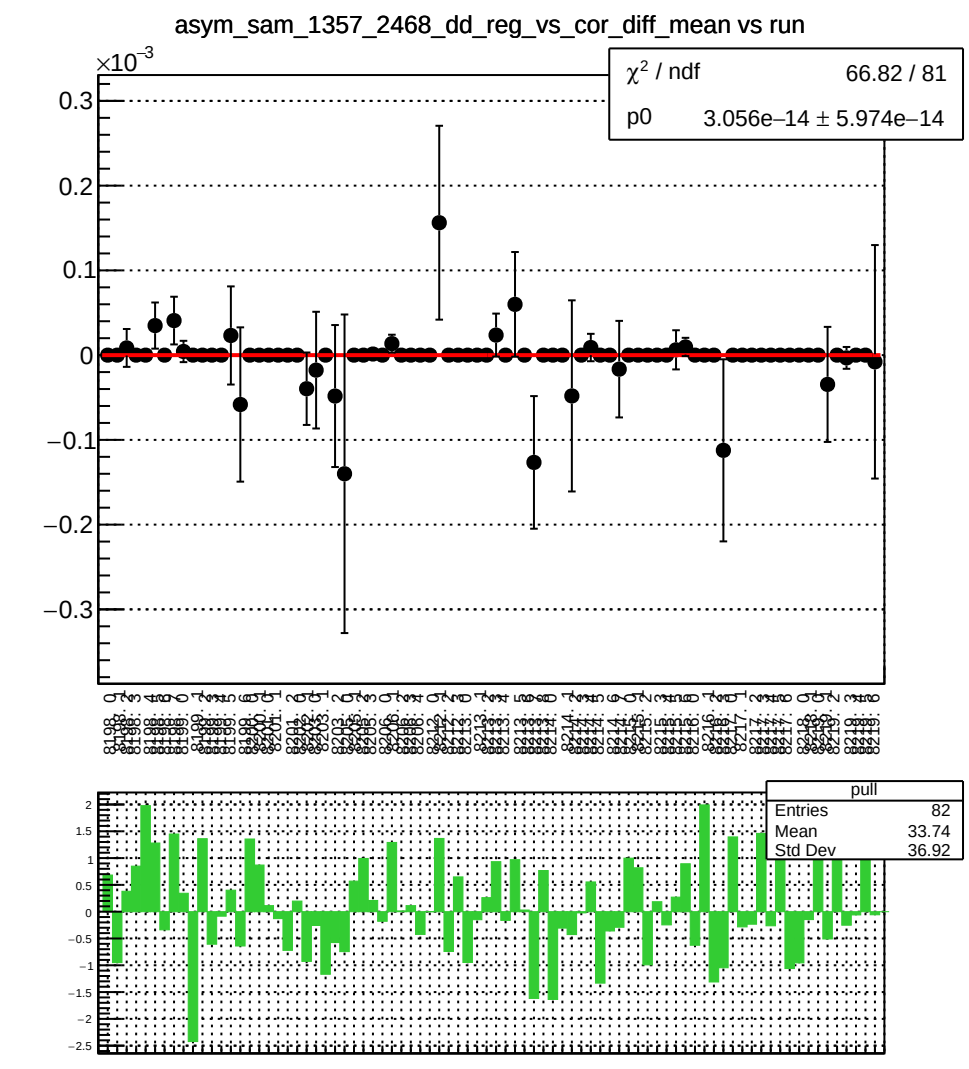

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.03 / 81
p0 586 ± 594.8
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −538.3
Std Dev 0
3
2
1
0
−1
−2
−3

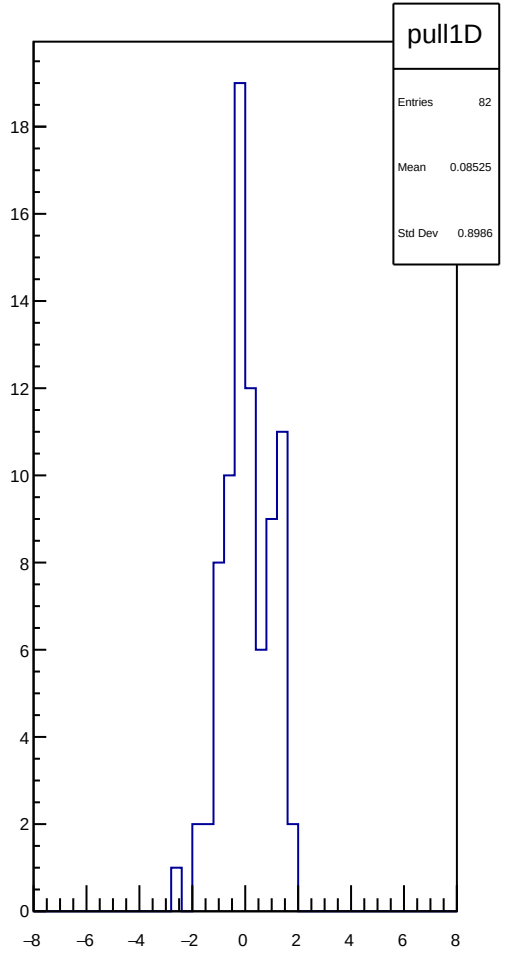

pull1D
Entries 82
Mean −0.004755
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

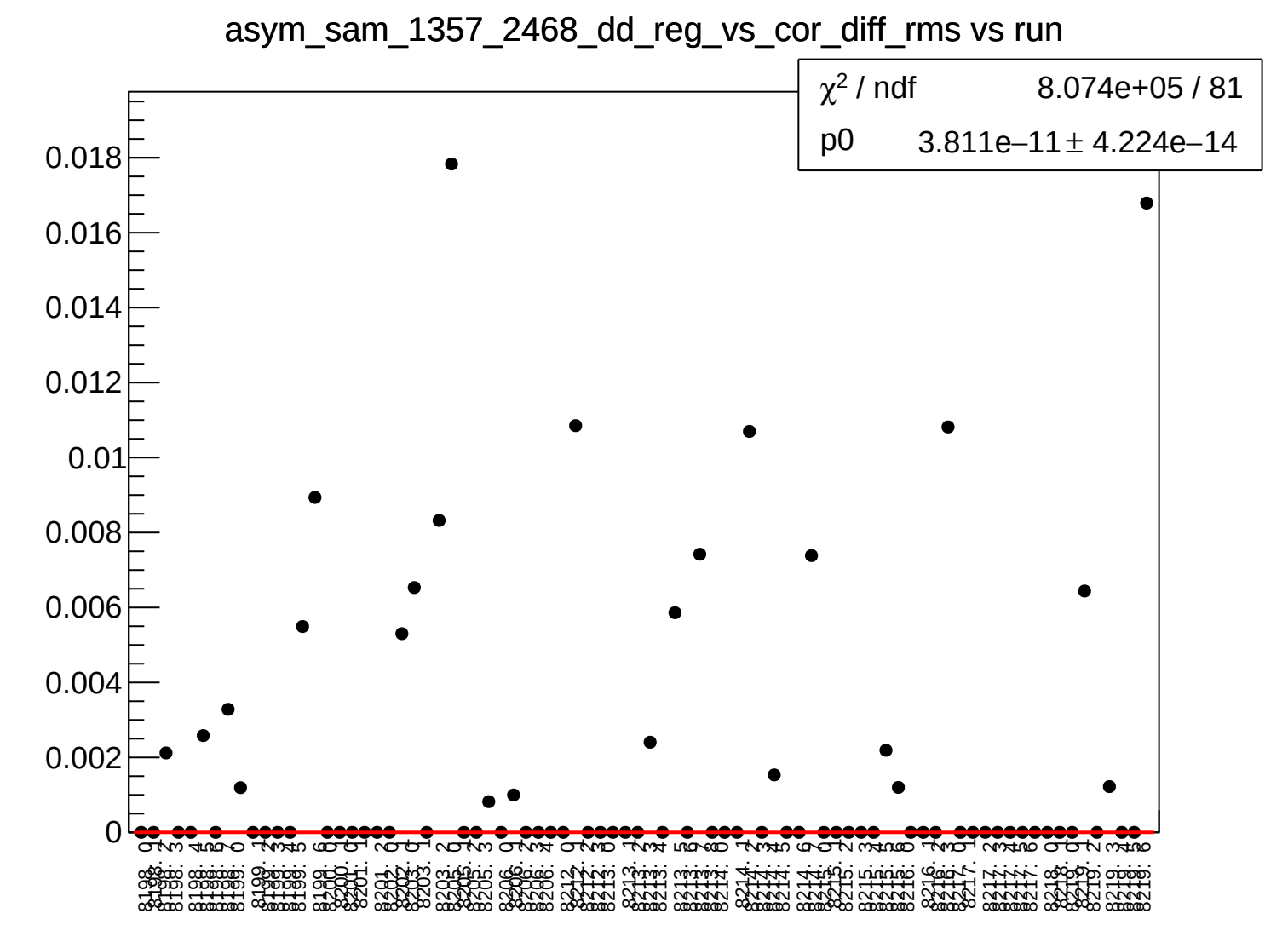

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 3695 / 81
p0 534.9 ± 0.4206
600
580
560
540
520
500

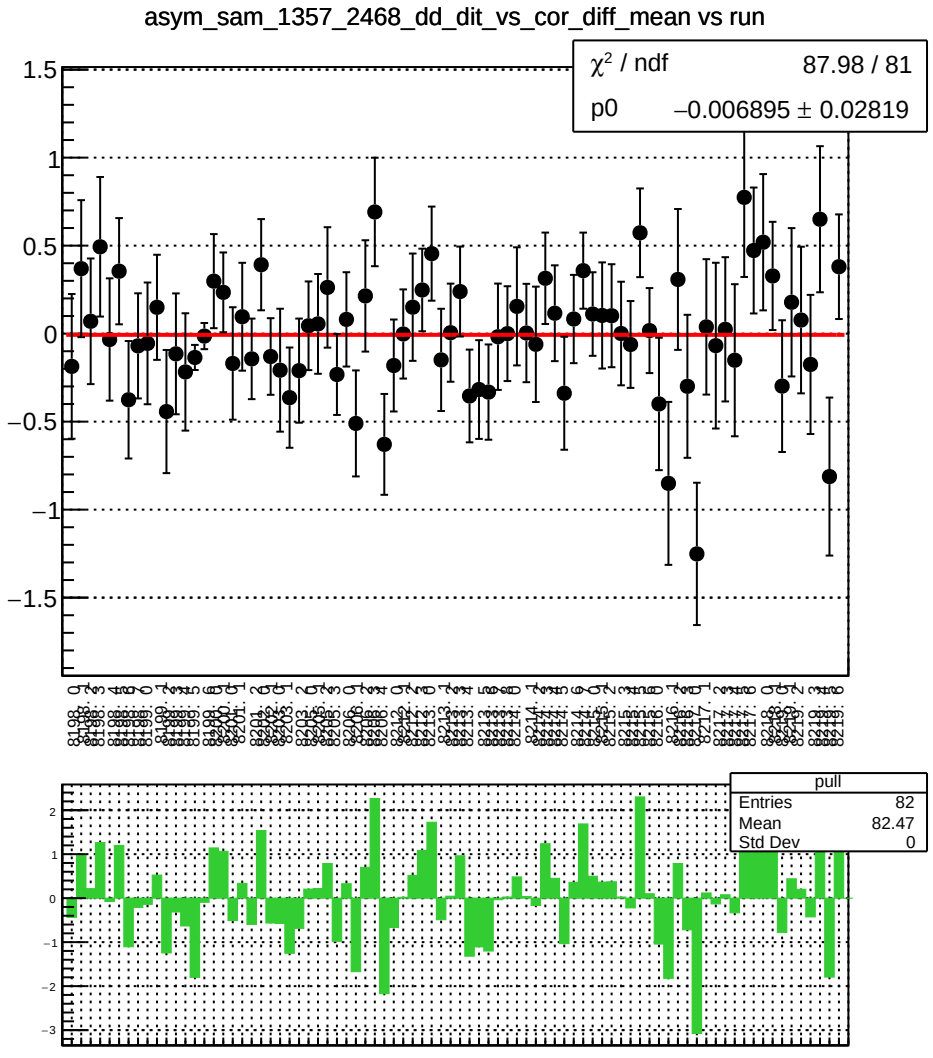

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 91.54 / 81
p0 −566.3 ± 564.8
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −583.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.005019
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

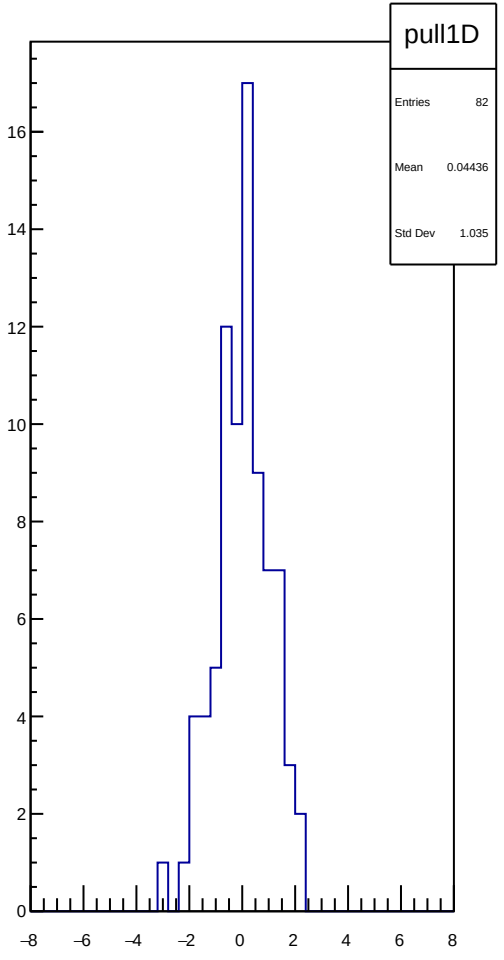

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2980 / 81
p0 508 ± 0.3994
560
540
520
500
480

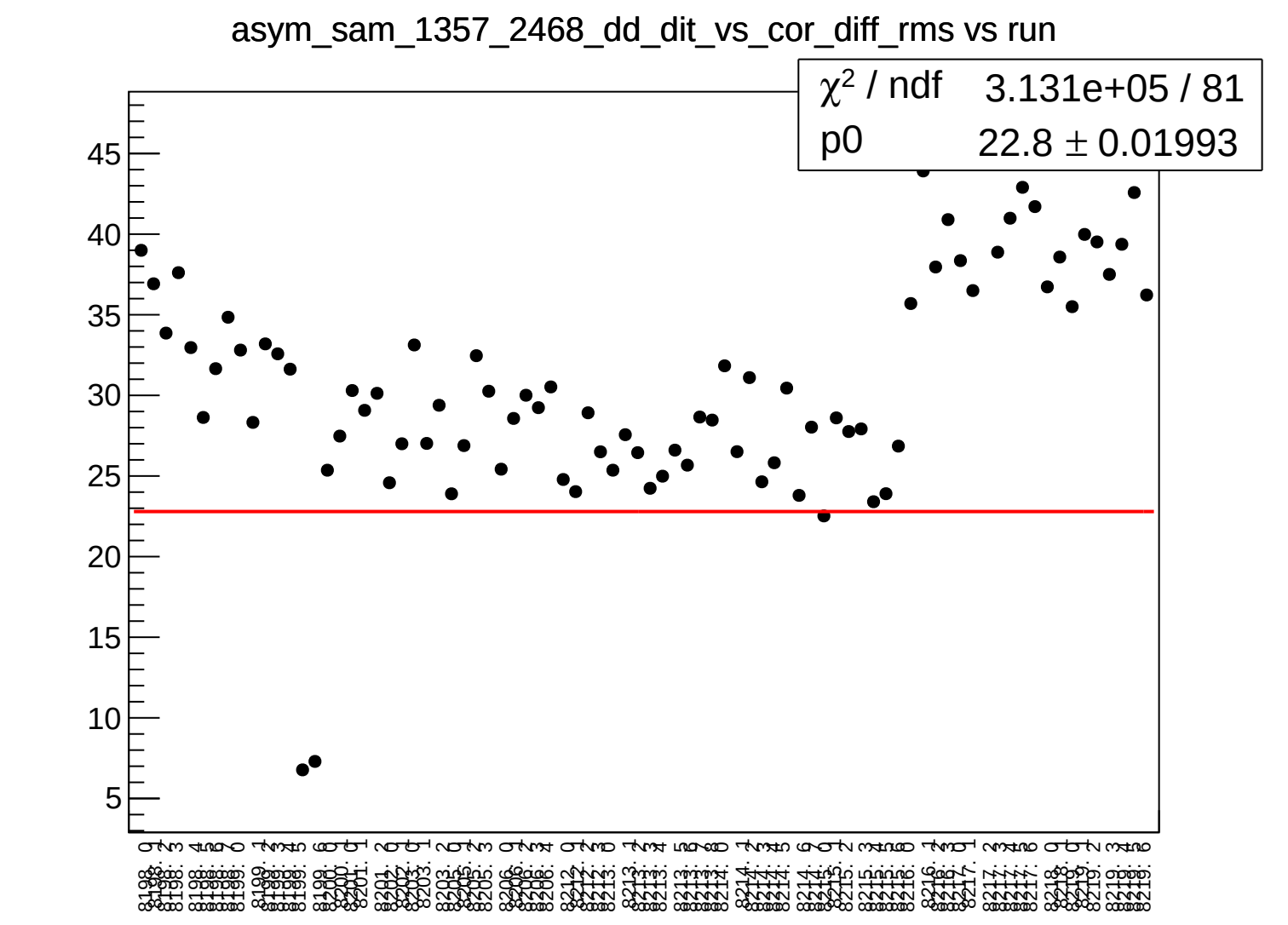

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 66.82 / 81
p0 3.056e−14 ± 5.974e−14
pull
Entries 82
Mean 33.74
Std Dev 36.92

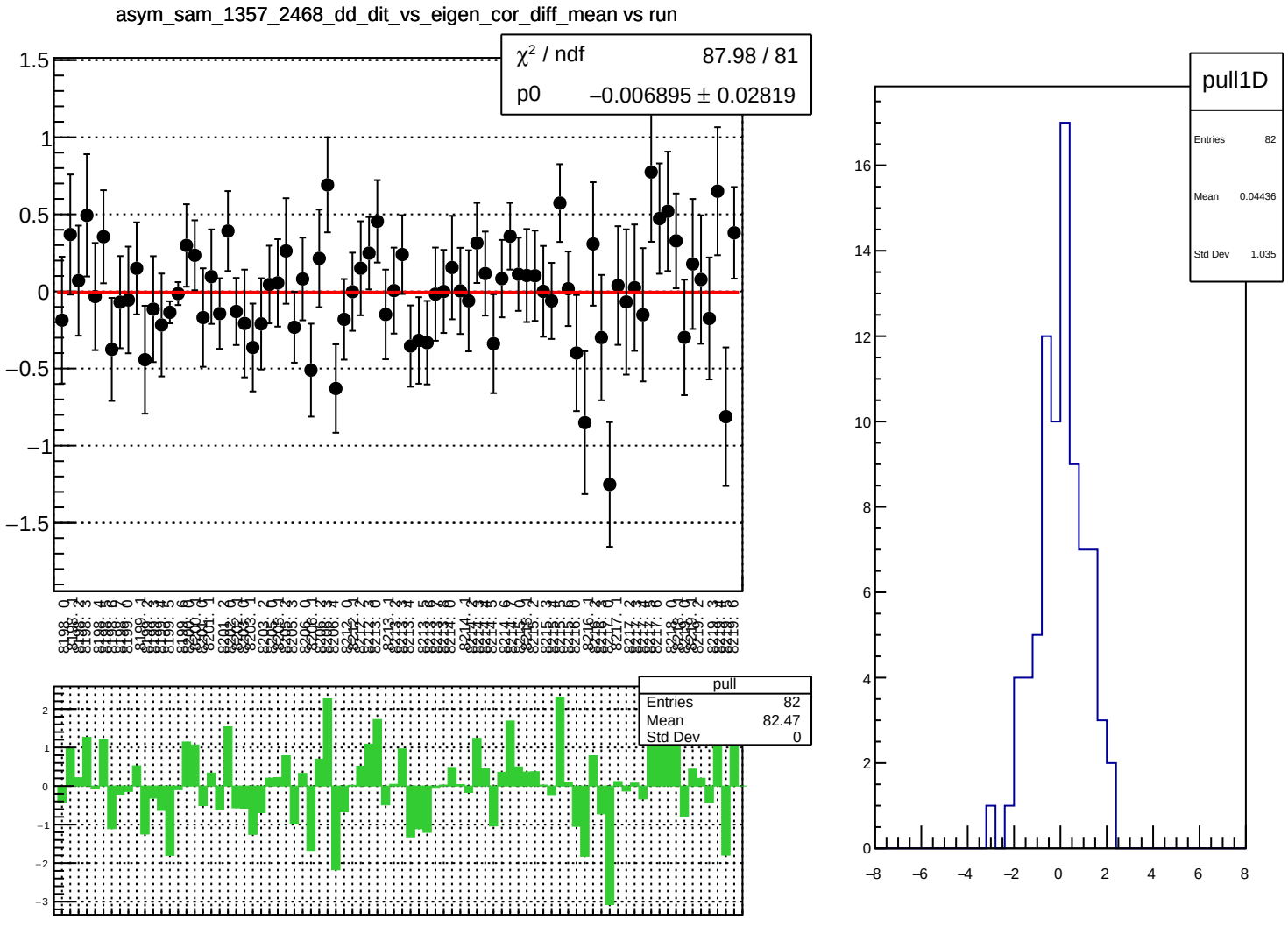

pull1D
Entries 82
Mean 0.08525
Std Dev 0.8986

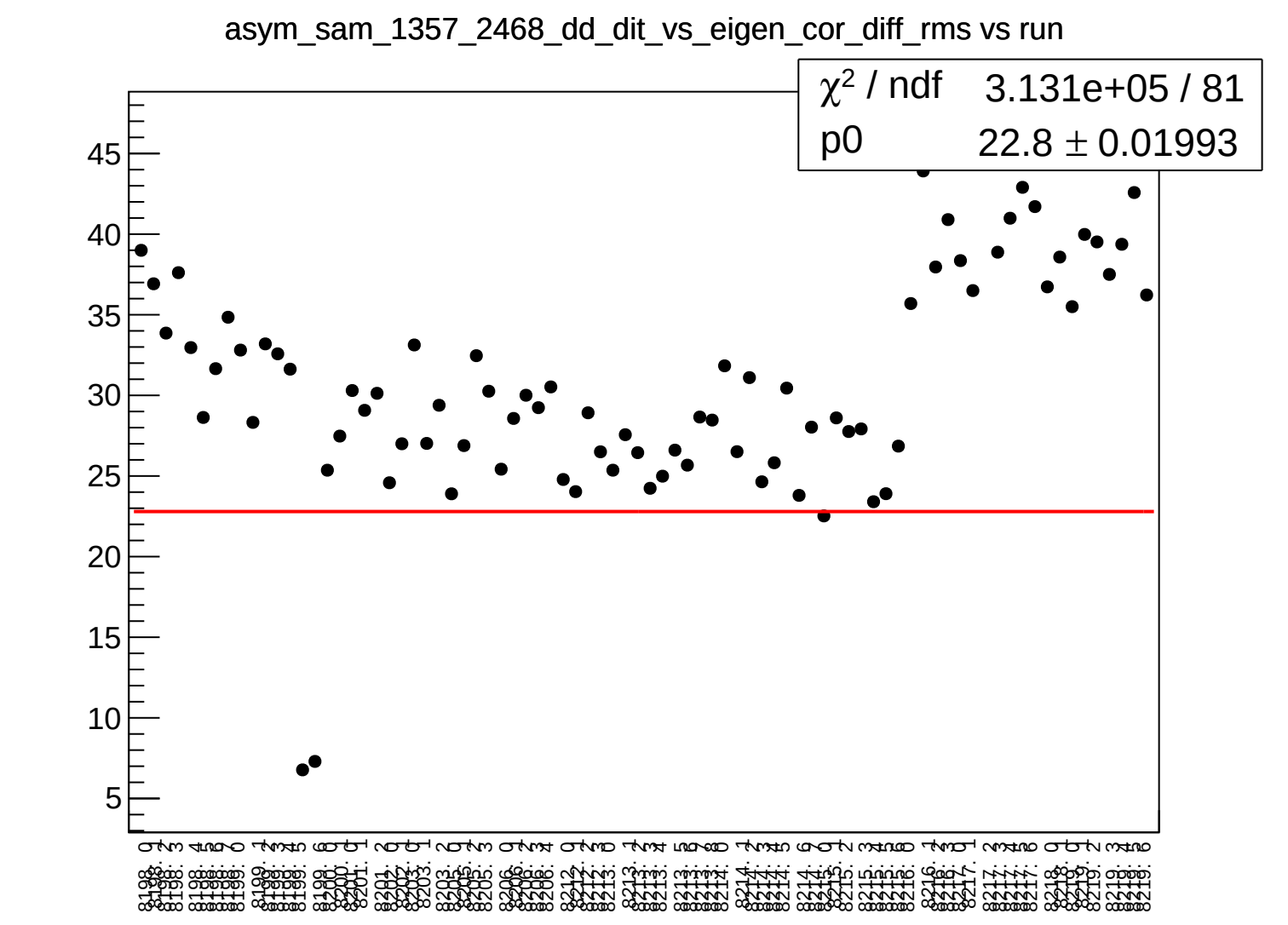

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.074e+05 / 81
p0 3.811e−11 ± 4.224e−14
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

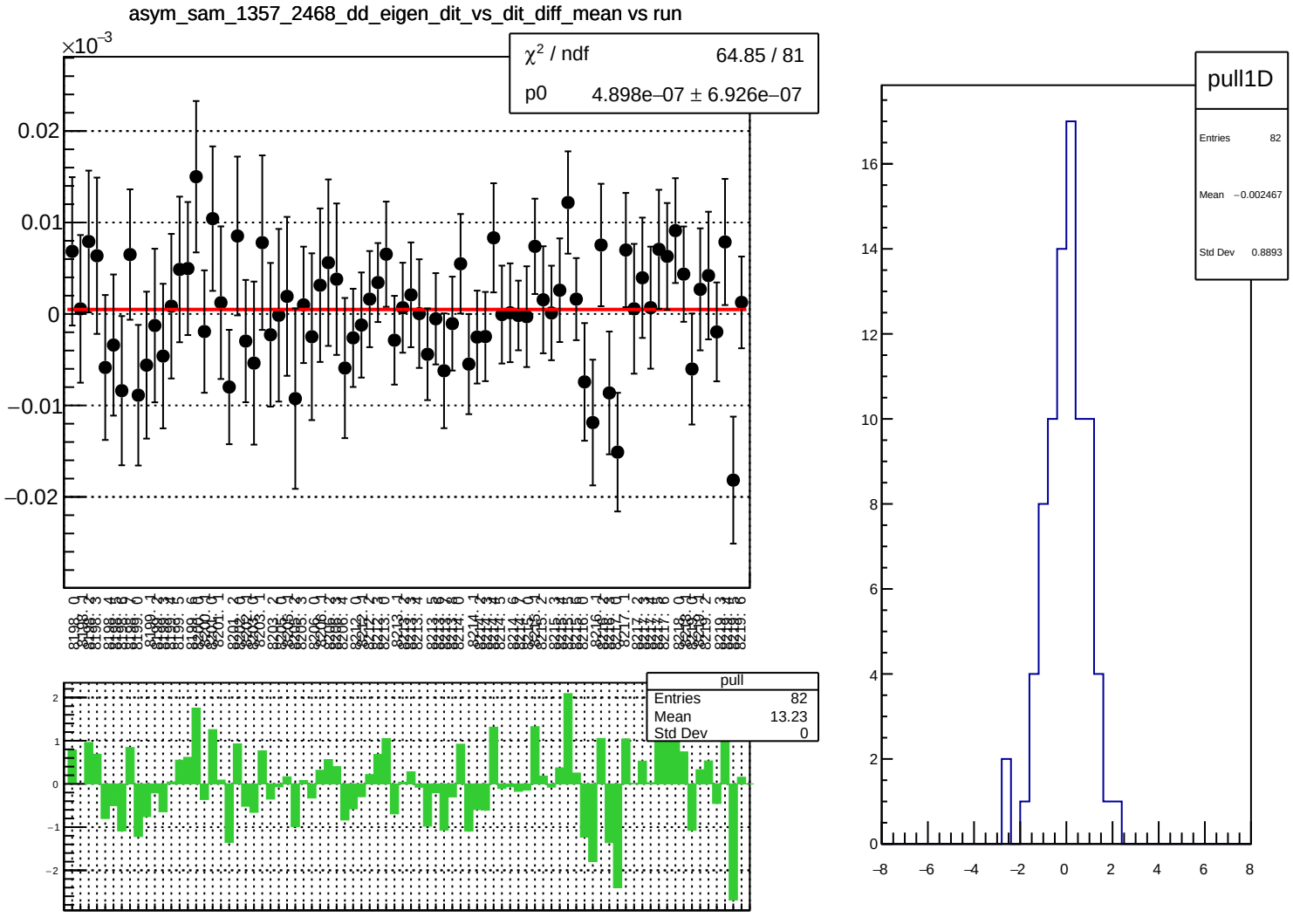

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.98 / 81
p0 −0.006895 ± 0.02819
pull
Entries 82
Mean 82.47
Std Dev 0

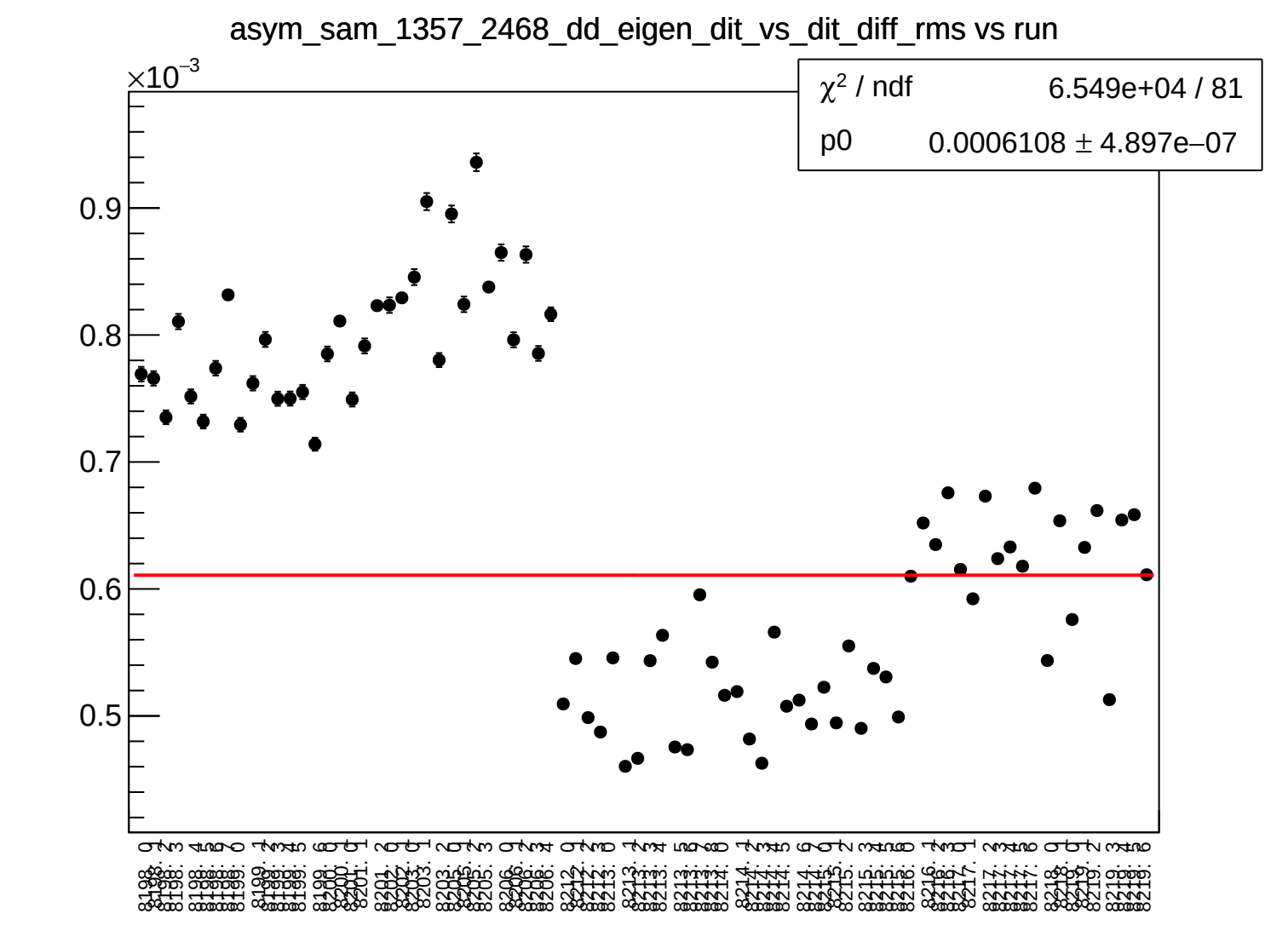

pull1D
Entries 82
Mean 0.04436
Std Dev 1.035

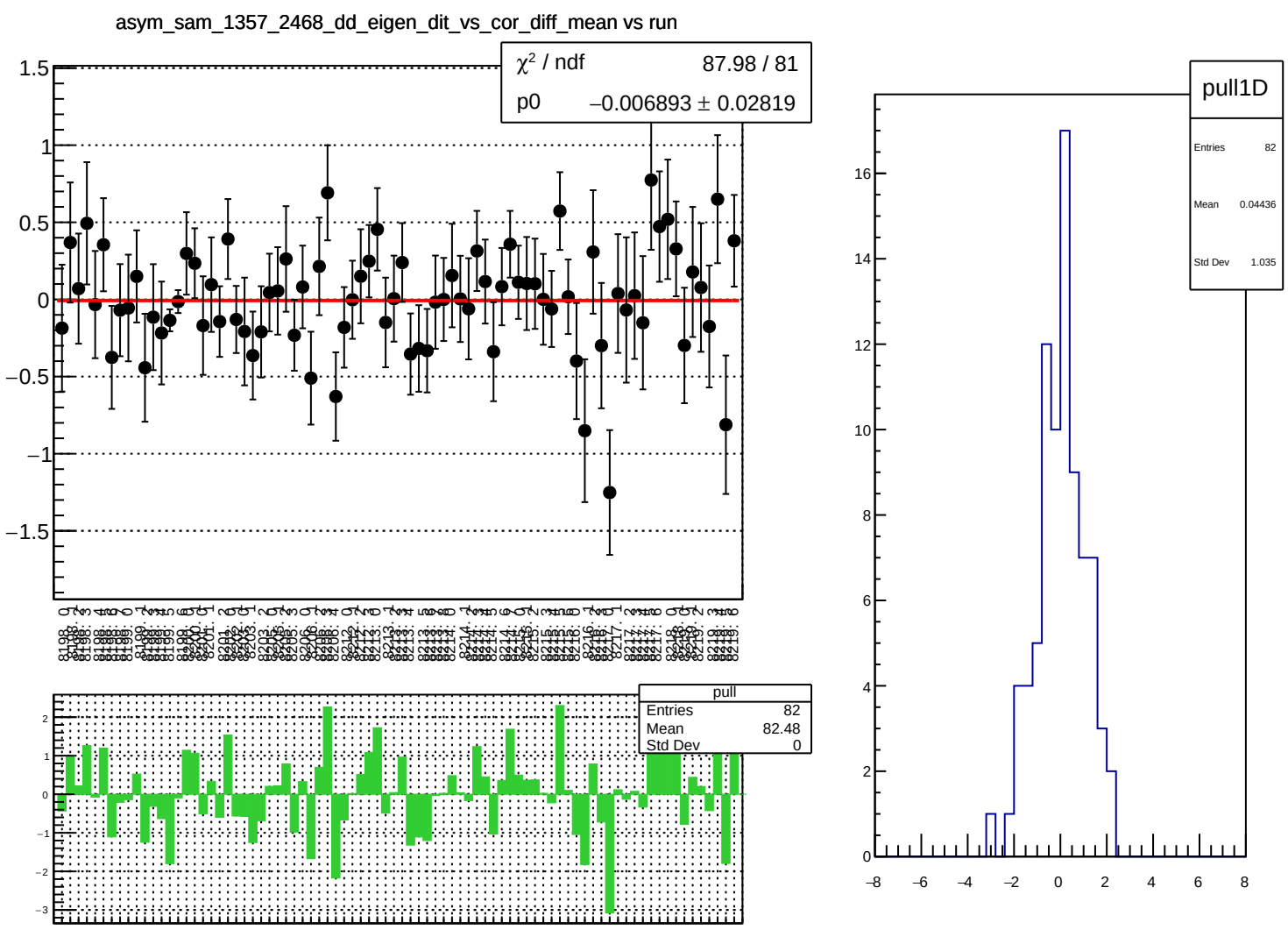

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.131e+05 / 81
p0 22.8 ± 0.01993
45
40
35
30
25
20
15
10
5

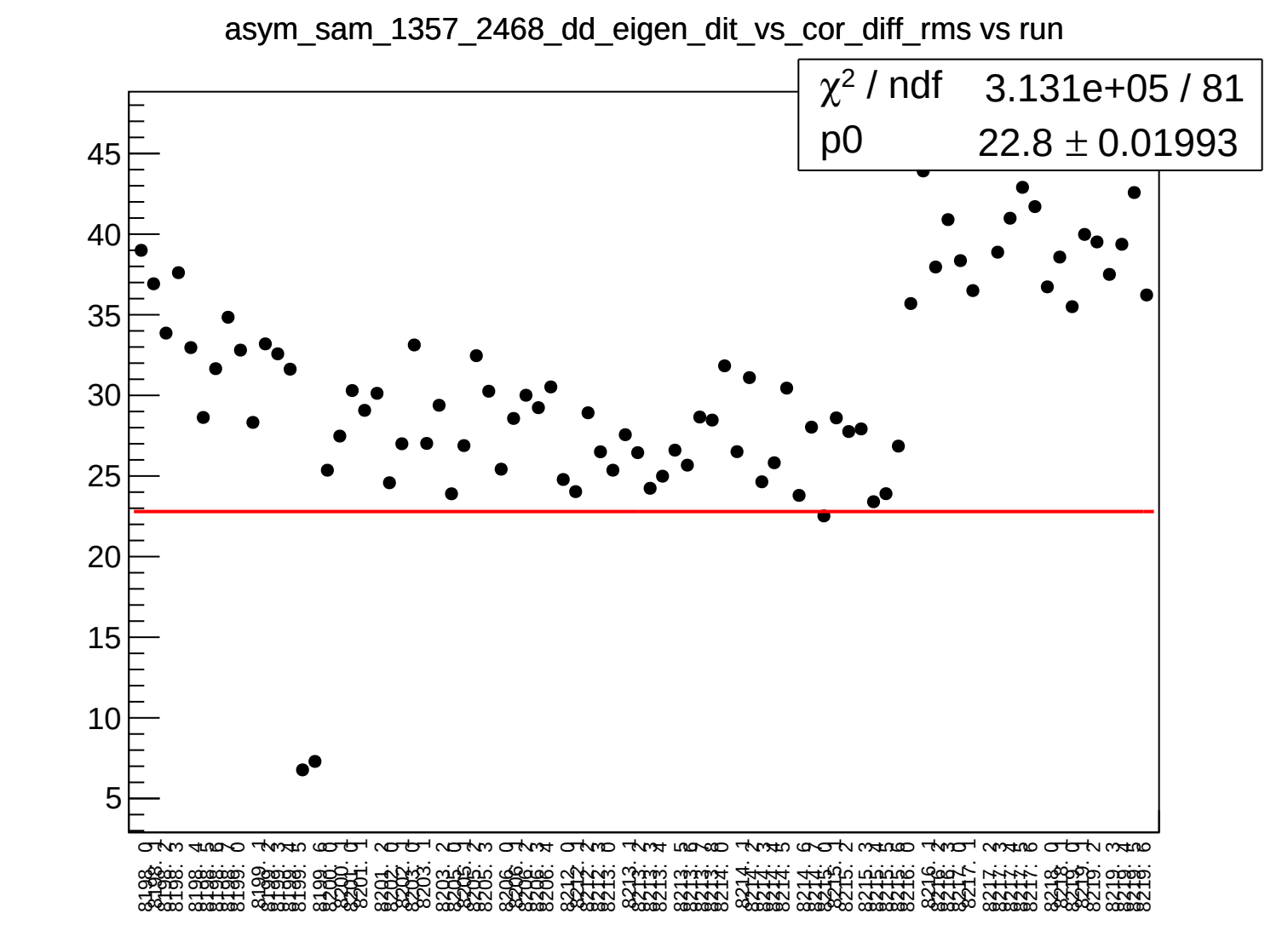

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.98 / 81
p0 −0.006895 ± 0.02819
pull
Entries 82
Mean 82.47
Std Dev 0
pull1D
Entries 82
Mean 0.04436
Std Dev 1.035

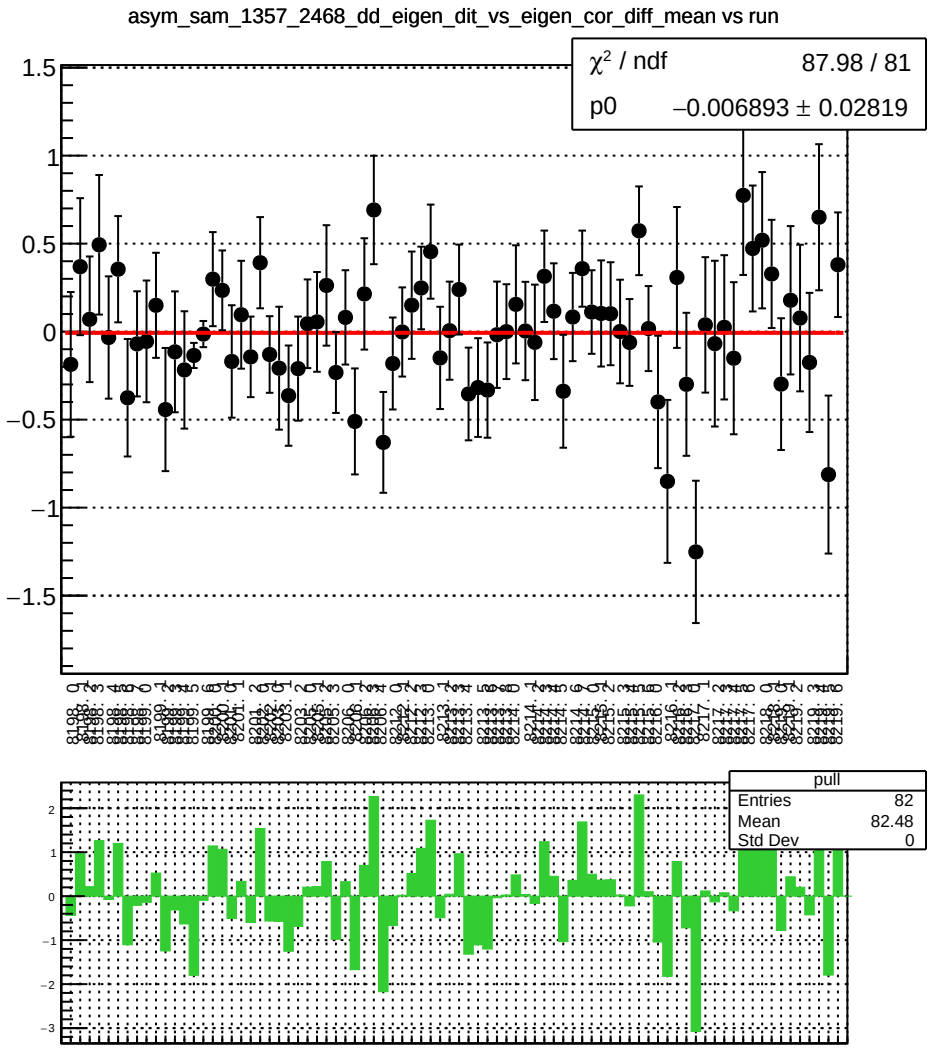

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.131e+05 / 81
p0 22.8 ± 0.01993
45
40
35
30
25
20
15
10
5

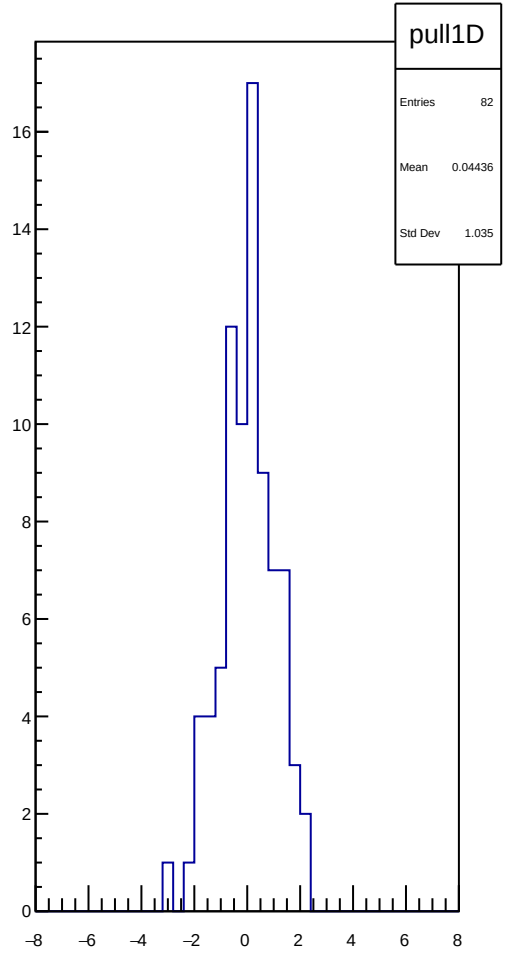

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.85 / 81
p0 4.898e−07 ± 6.926e−07
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean 13.23
Std Dev 0
pull1D
Entries 82
Mean −0.002467
Std Dev 0.8893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

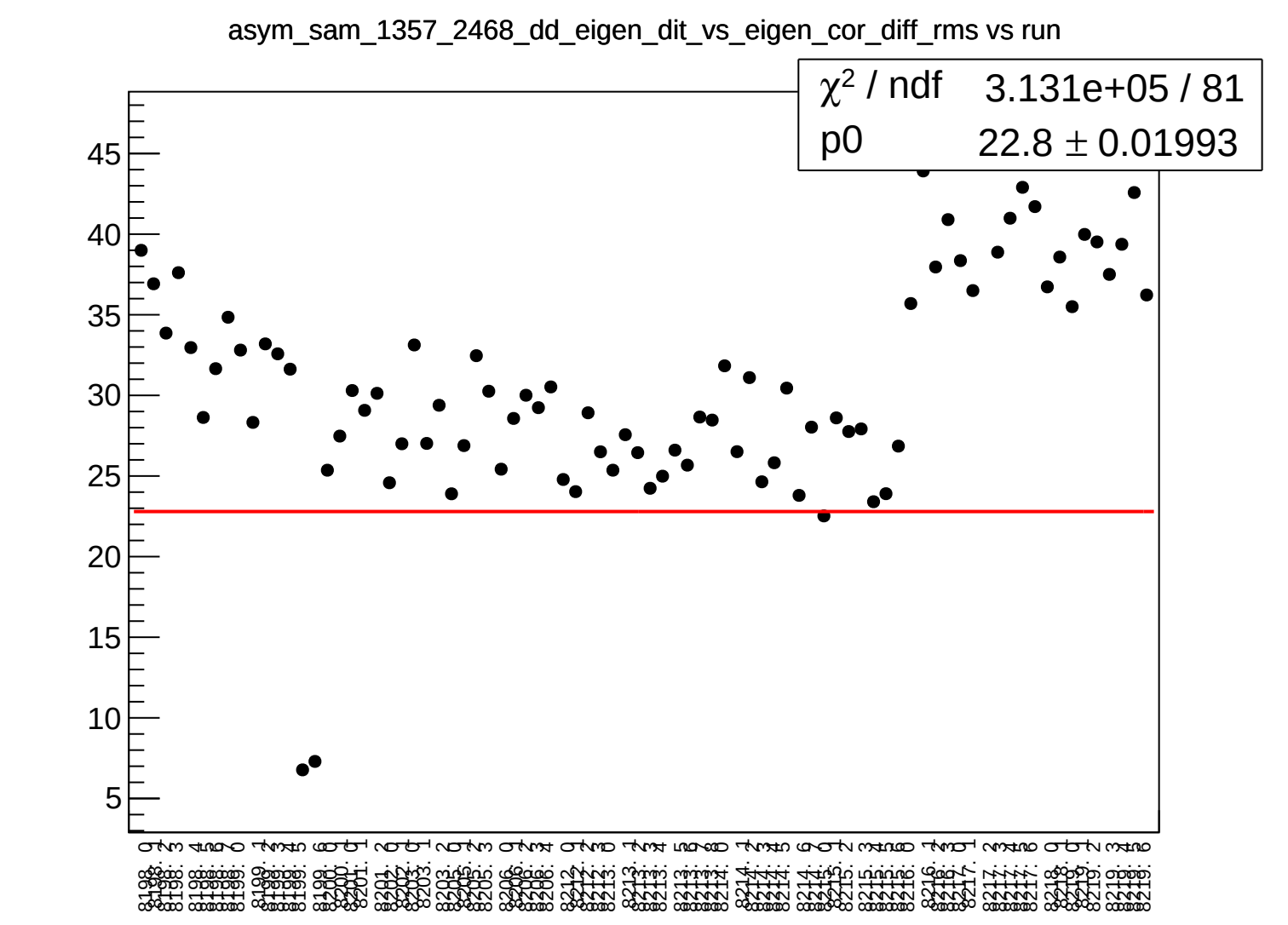

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 6.549e+04 / 81
p0 0.0006108 ± 4.897e−07
0.9
0.8
0.7
0.6
0.5

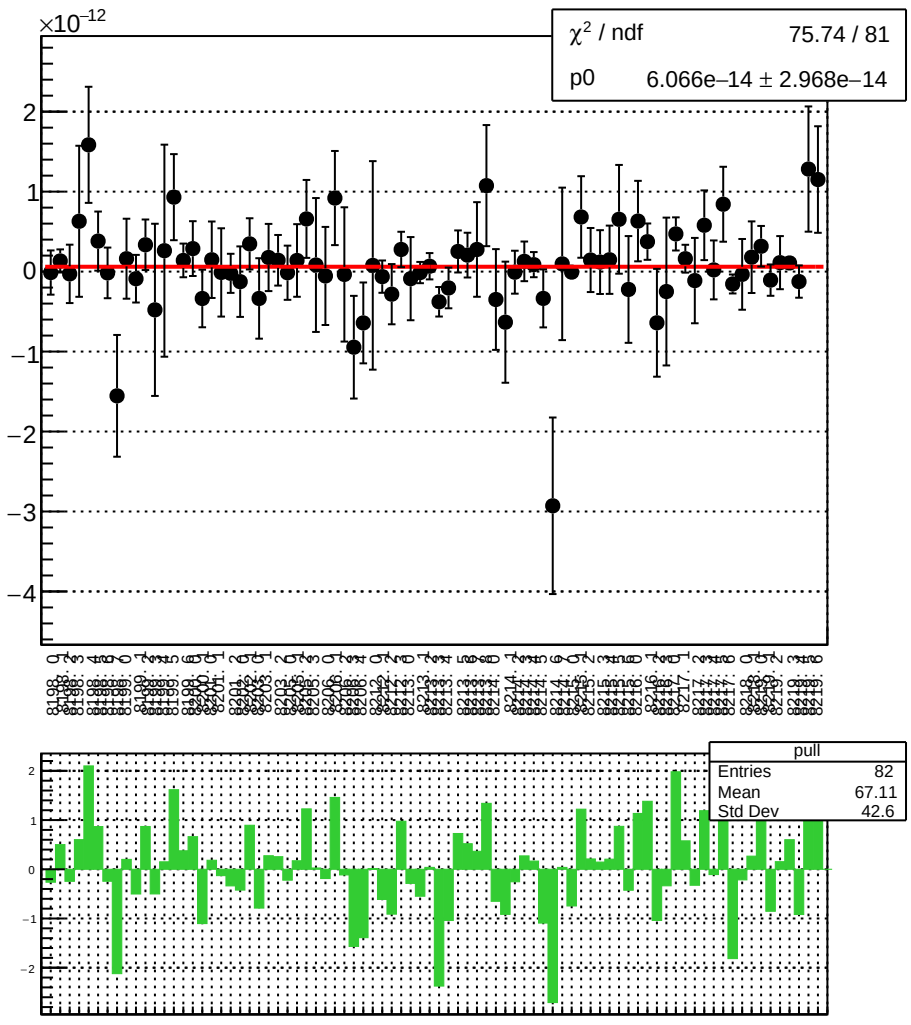

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.98 / 81
p0 −0.006893 ± 0.02819
pull
Entries 82
Mean 82.48
Std Dev 0
pull1D
Entries 82
Mean 0.04436
Std Dev 1.035

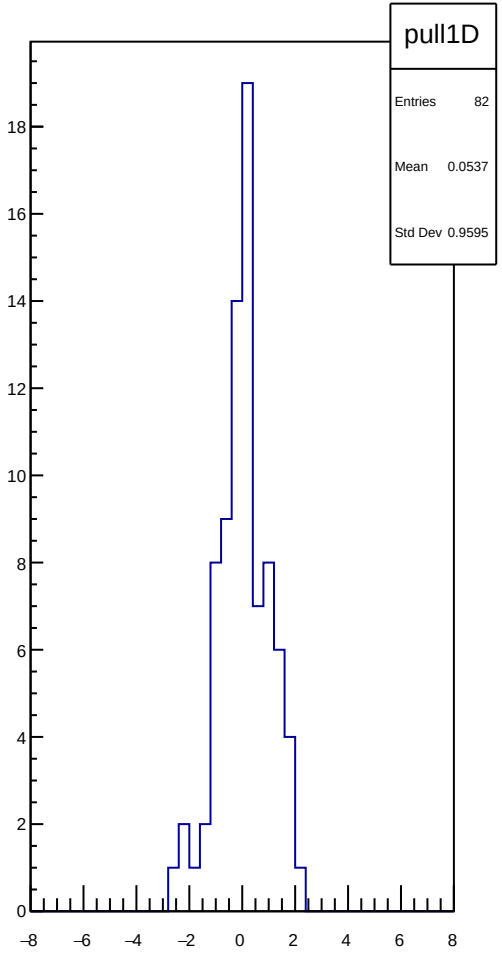

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.131e+05 / 81
p0 22.8 ± 0.01993
45
40
35
30
25
20
15
10
5

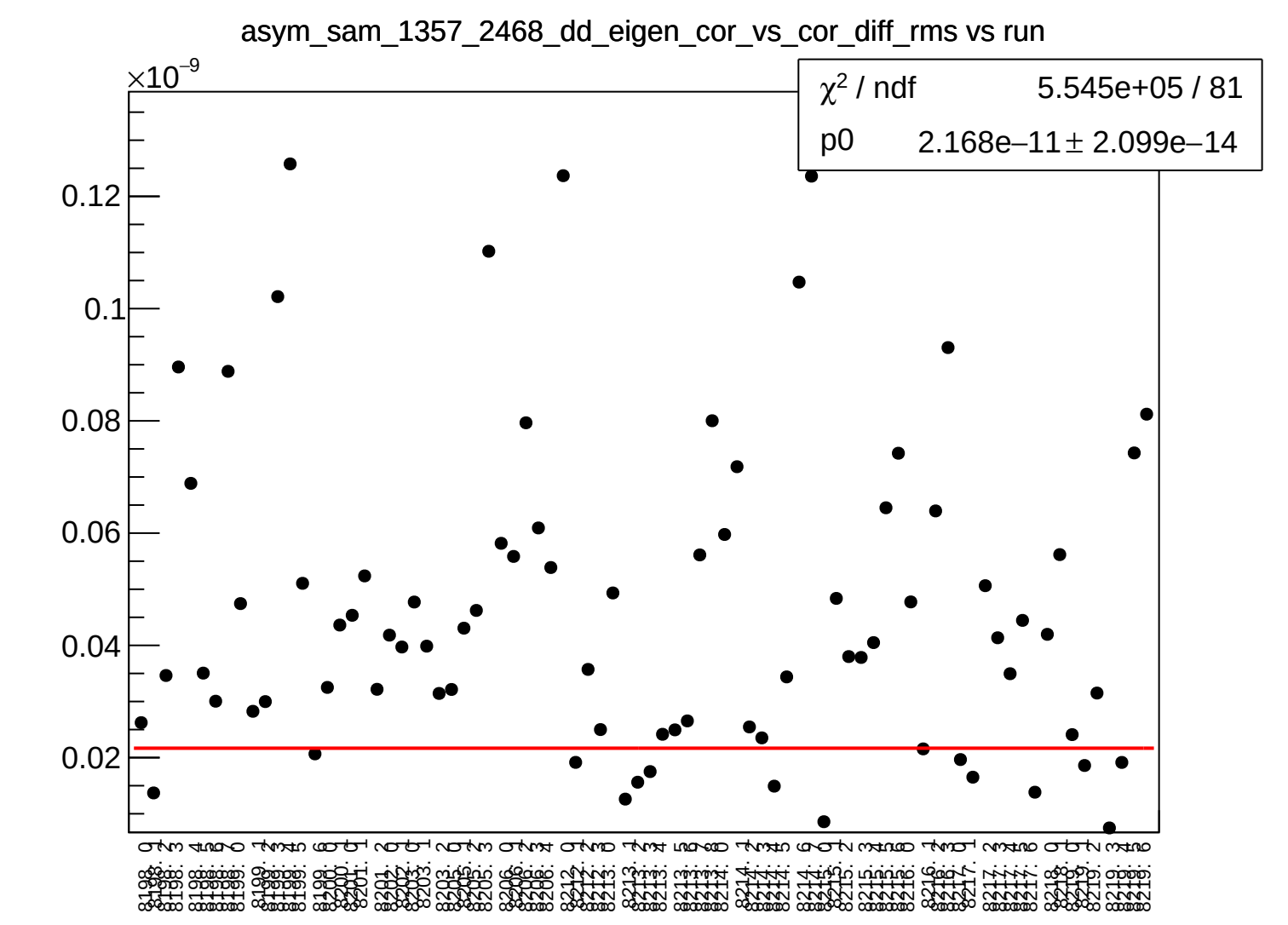

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.98 / 81
p0 −0.006893 ± 0.02819
pull
Entries 82
Mean 82.48
Std Dev 0

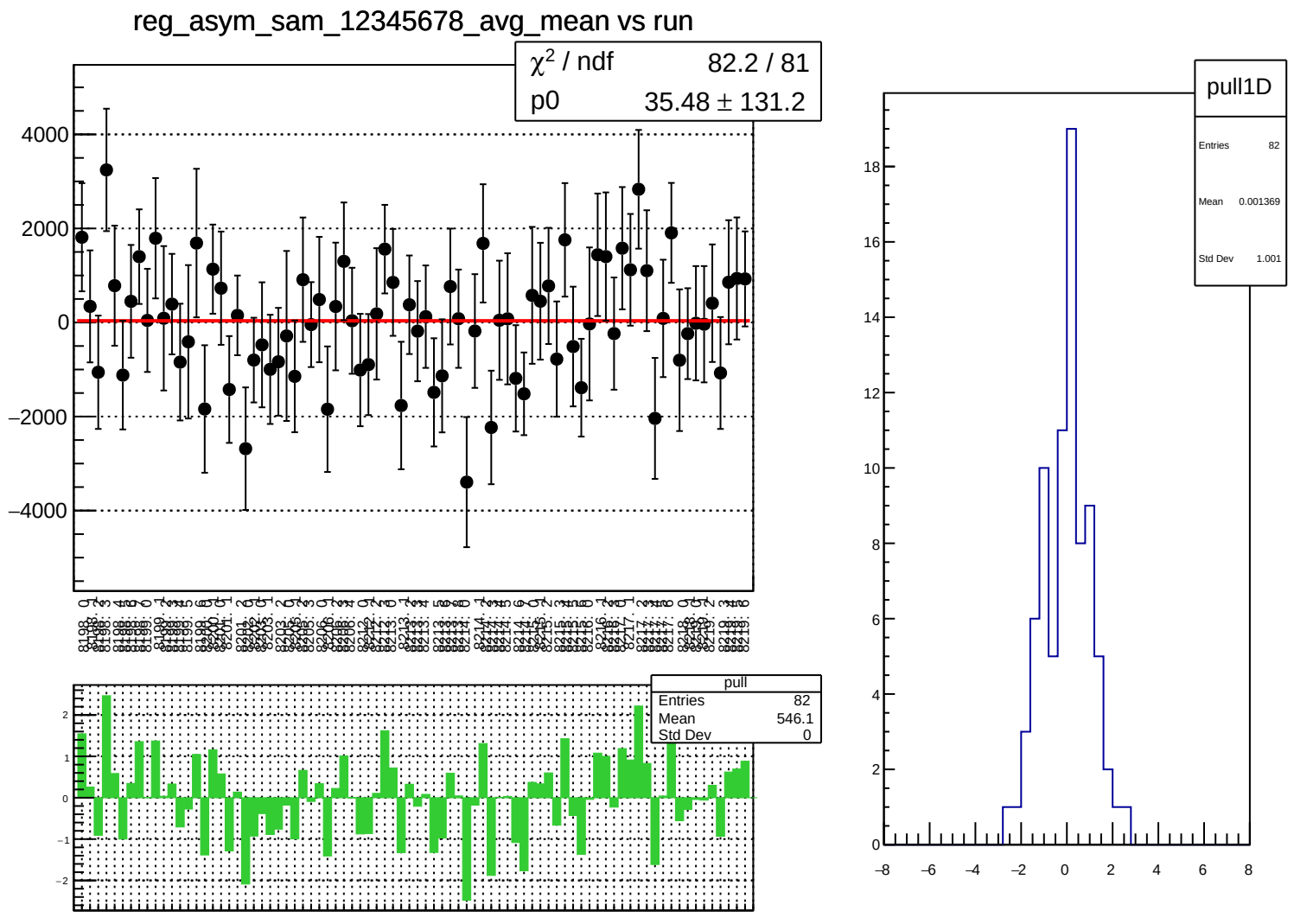

pull1D
Entries 82
Mean 0.04436
Std Dev 1.035

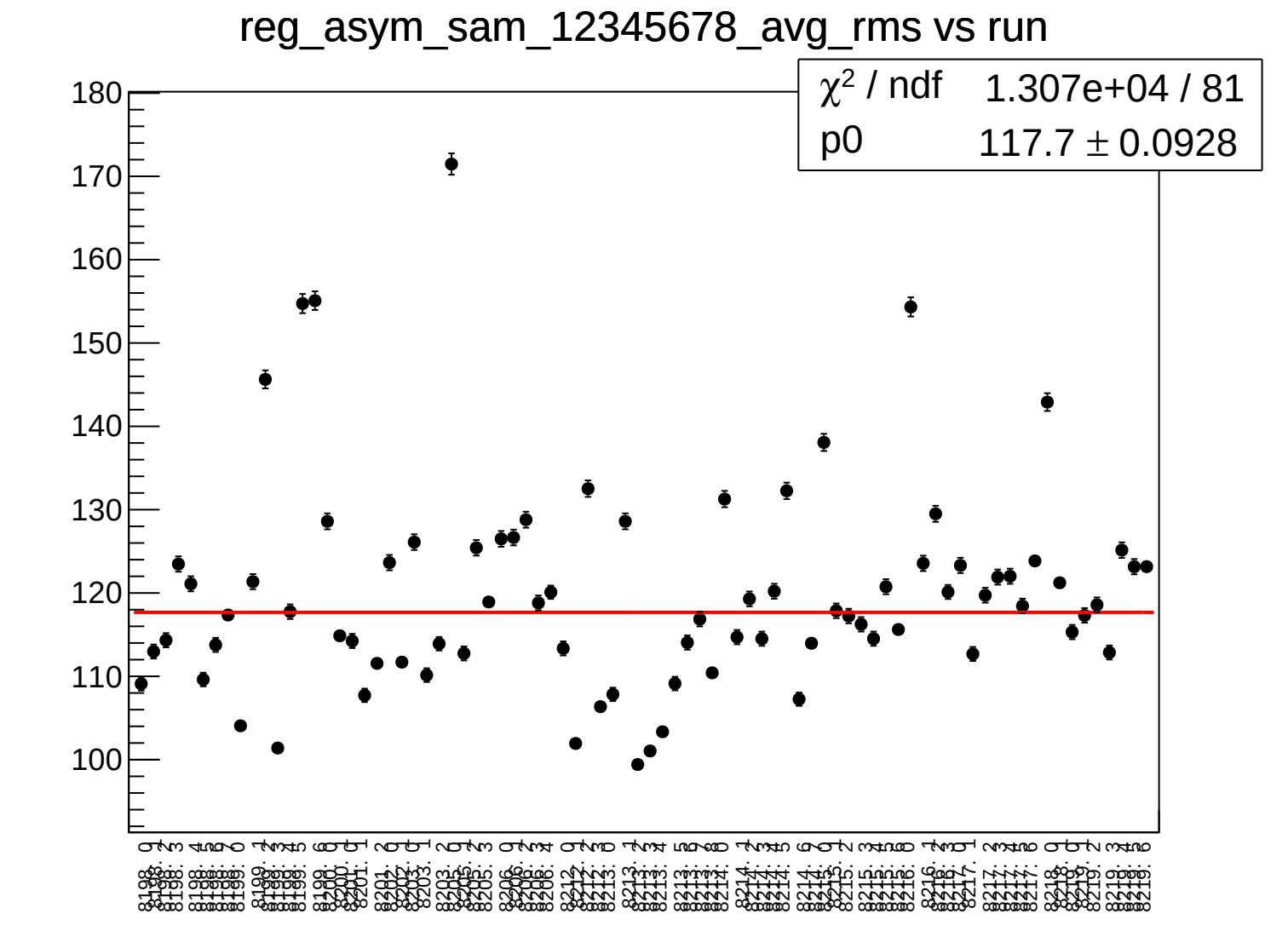

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.131e+05 / 81
p0 22.8 ± 0.01993
45
40
35
30
25
20
15
10
5

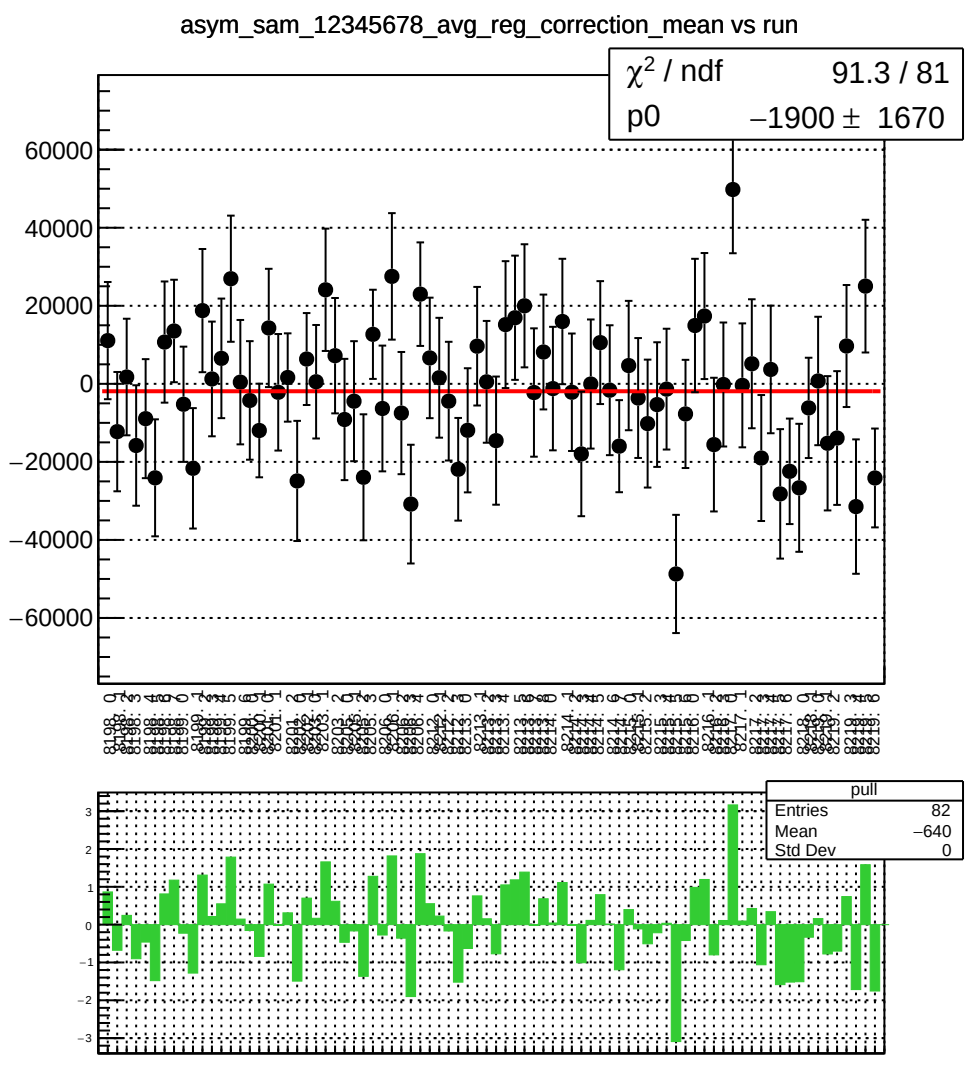

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.74 / 81
p0 6.066e−14 ± 2.968e−14
pull
Entries 82
Mean 67.11
Std Dev 42.6

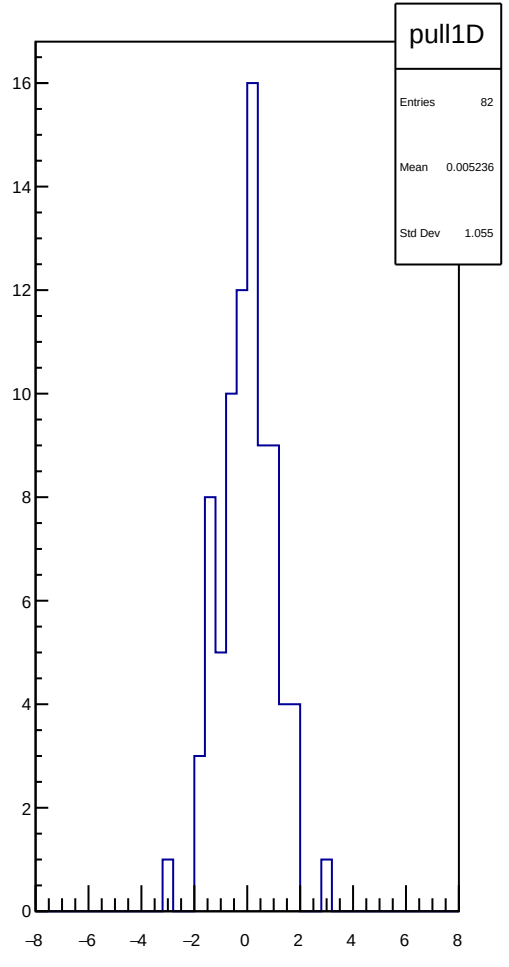

pull1D
Entries 82
Mean 0.0537
Std Dev 0.9595

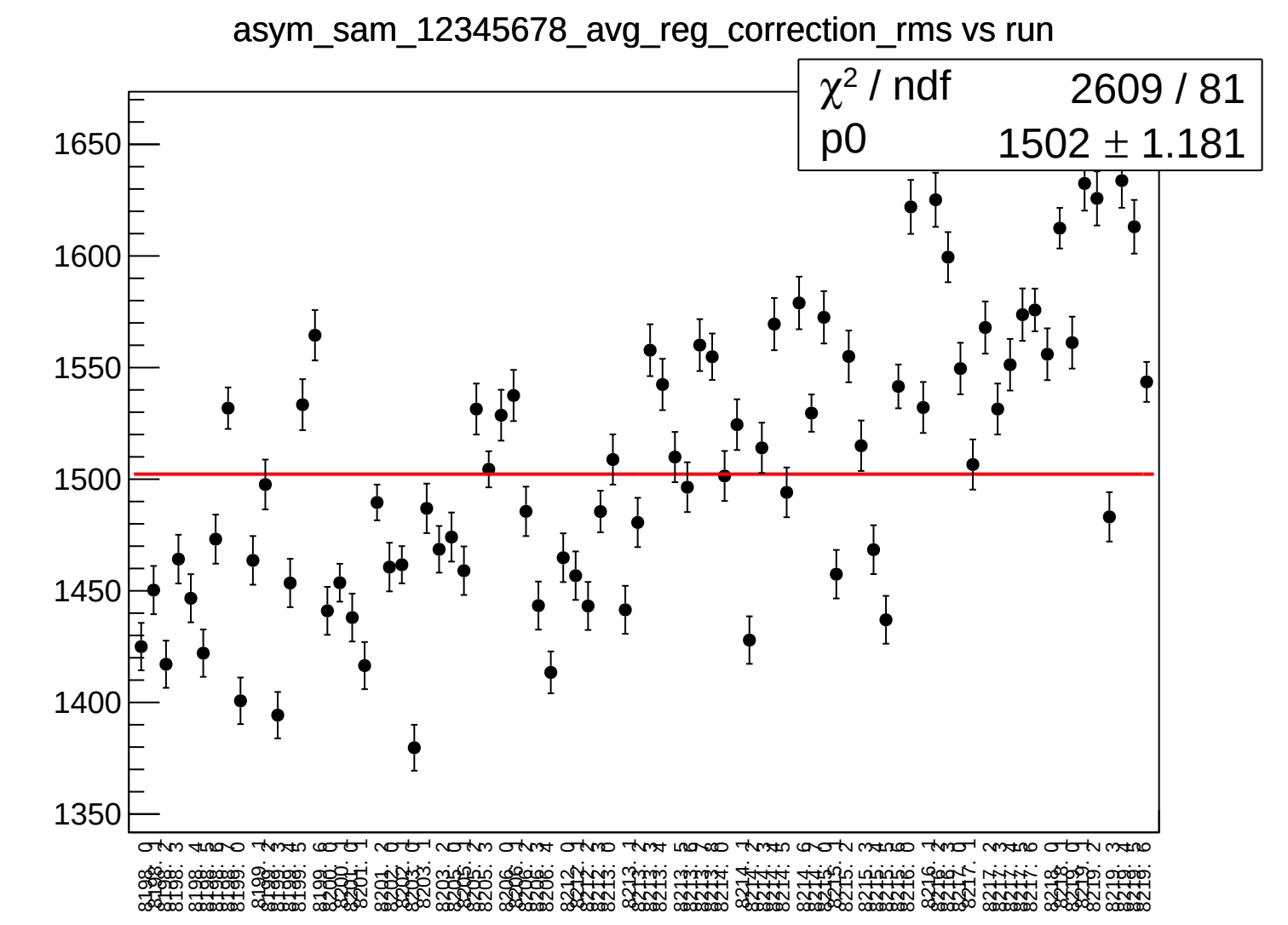

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.545e+05 / 81
p0 2.168e−11 ± 2.099e−14
0.12
0.1
0.08
0.06
0.04
0.02

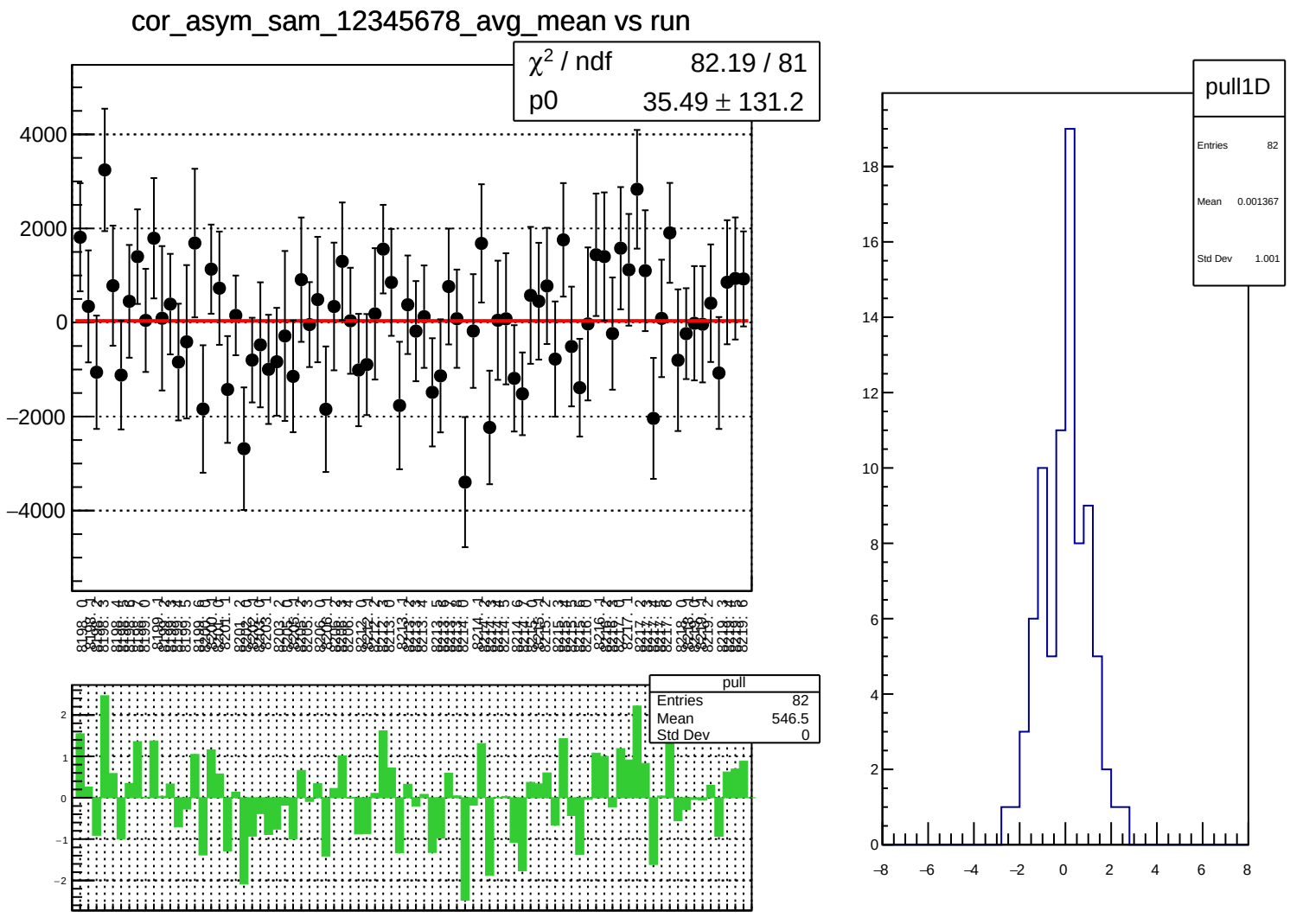

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 82.2 / 81
p0 35.48 ± 131.2
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 546.1
Std Dev 0
pull1D
Entries 82
Mean 0.001369
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

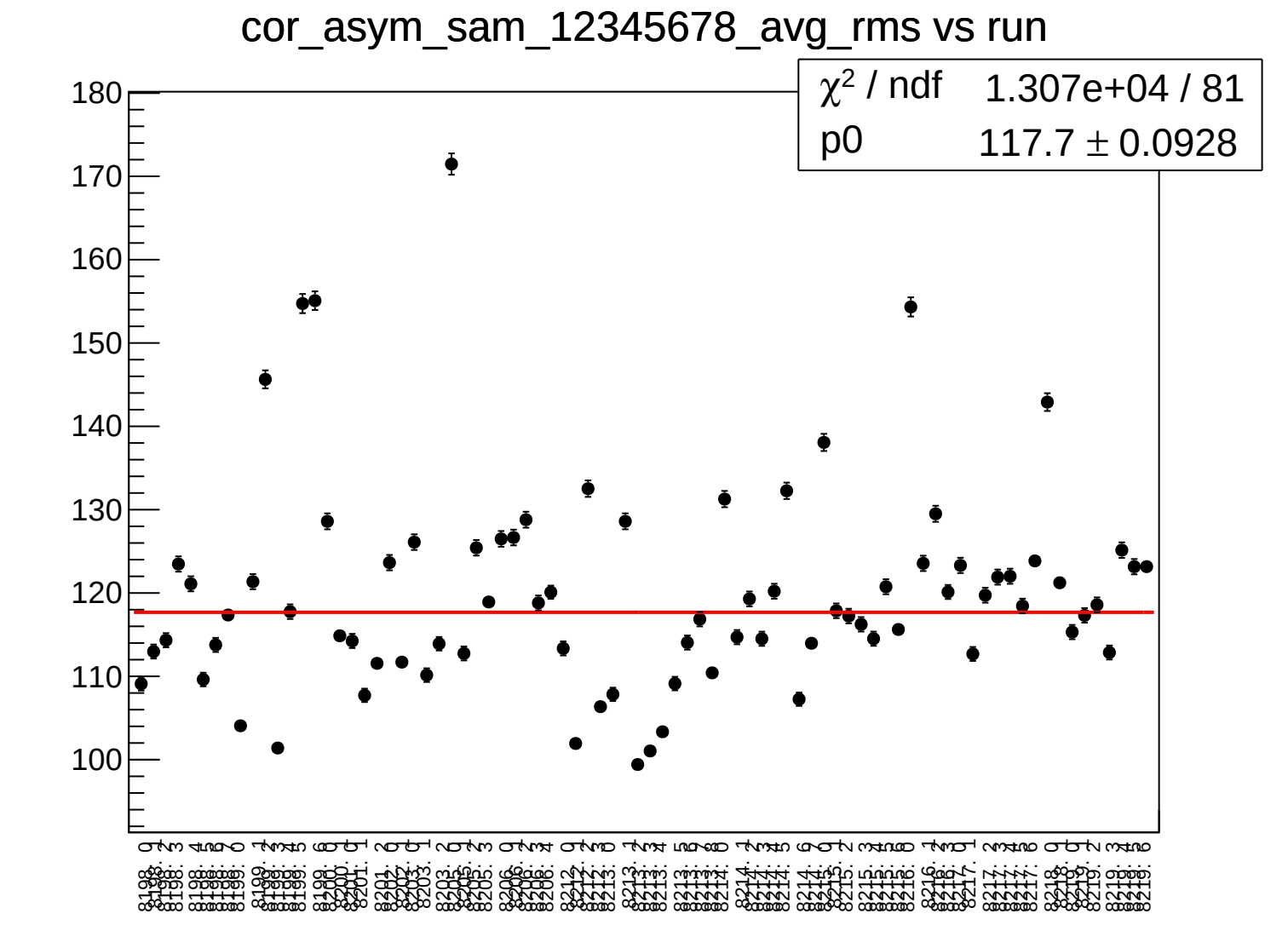

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.307e+04 / 81
p0 117.7 ± 0.0928
180
170
160
150
140
130
120
110
100

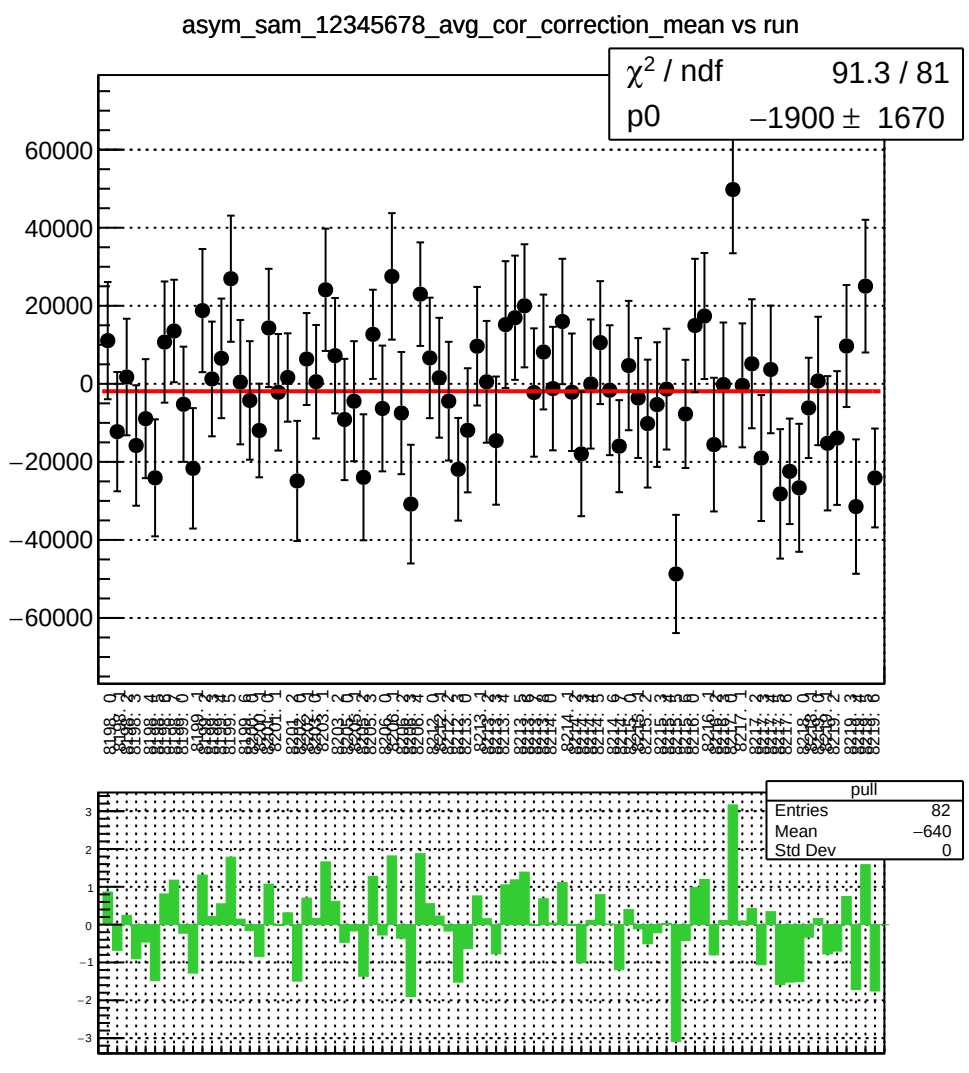

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 91.3 / 81
p0 −1900 ± 1670
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −640
Std Dev 0
3
2
1
0
−1
−2
−3

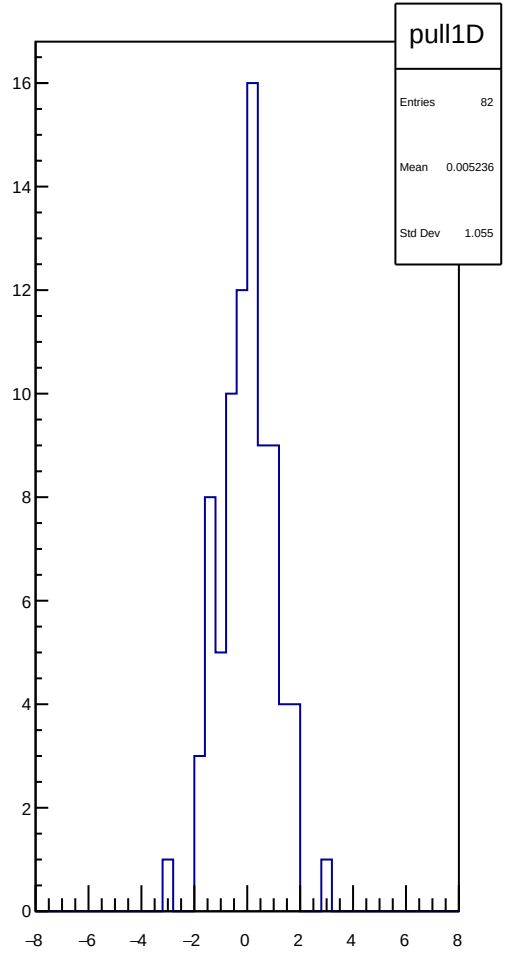

pull1D
Entries 82
Mean 0.005236
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

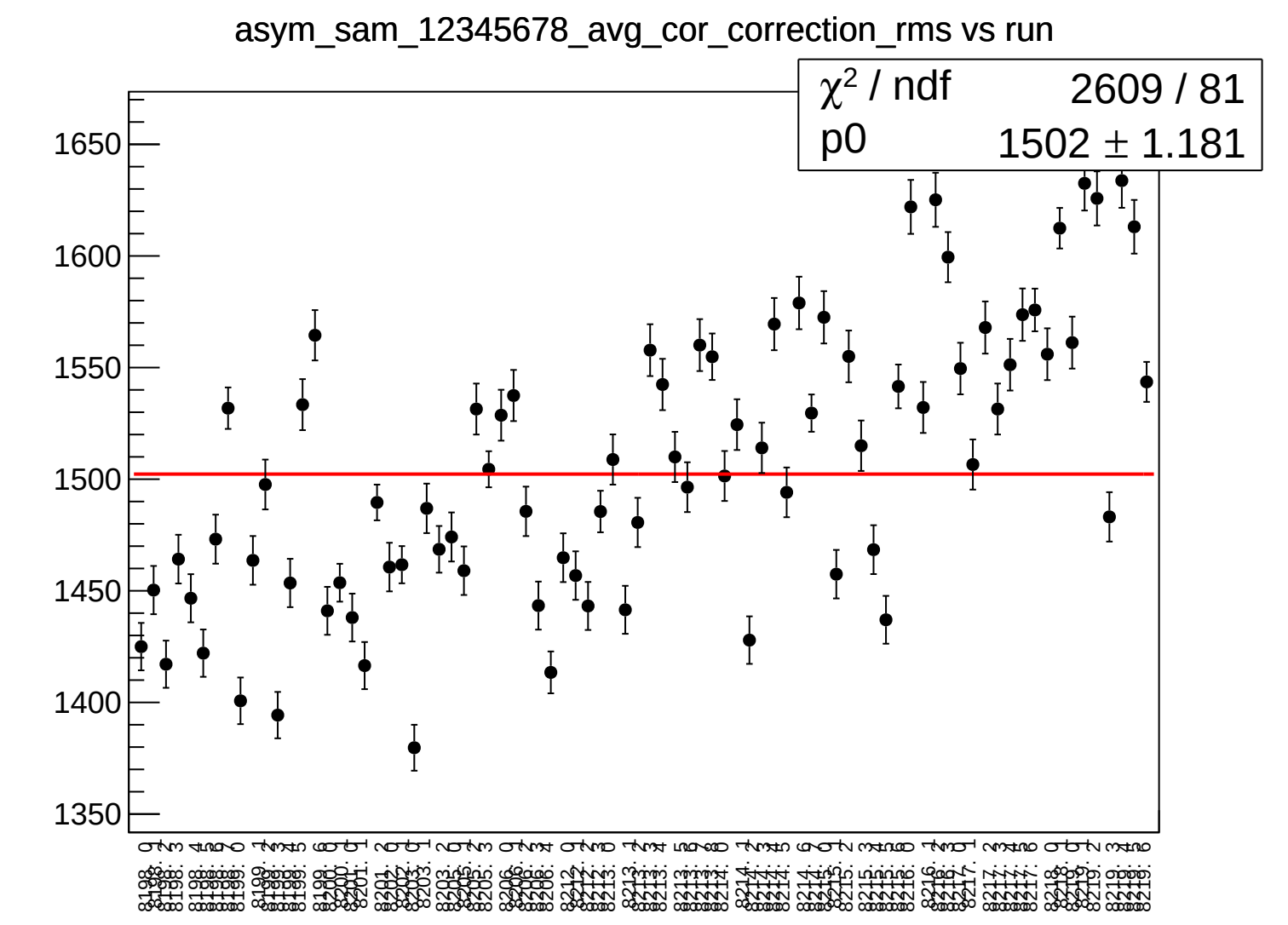

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 2609 / 81
p0 1502 ± 1.181
1650
1600
1550
1500
1450
1400
1350

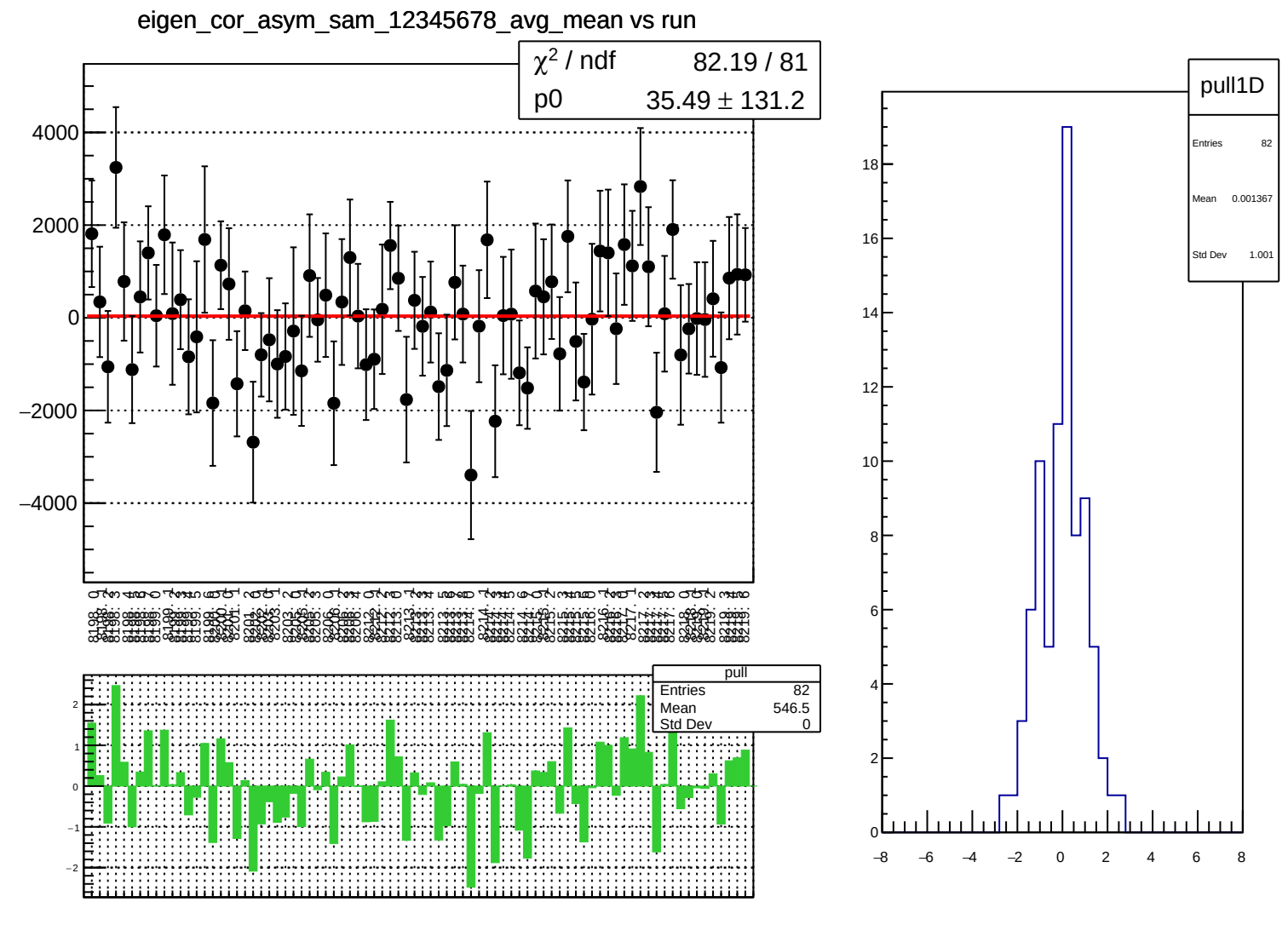

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 82.19 / 81
p0 35.49 ± 131.2
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 546.5
Std Dev 0
pull1D
Entries 82
Mean 0.001367
Std Dev 1.001

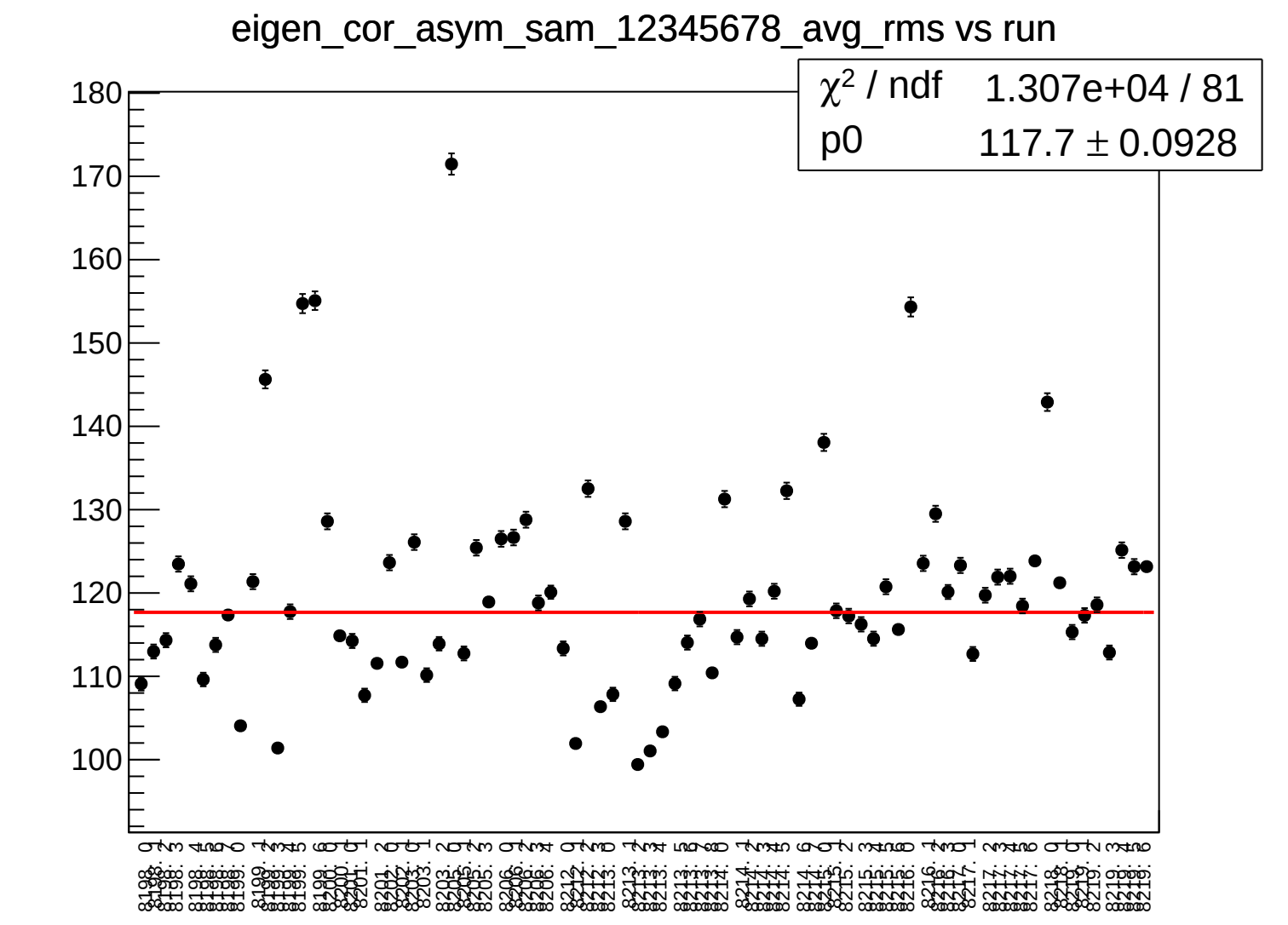

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.307e+04 / 81
p0 117.7 ± 0.0928
180
170
160
150
140
130
120
110
100

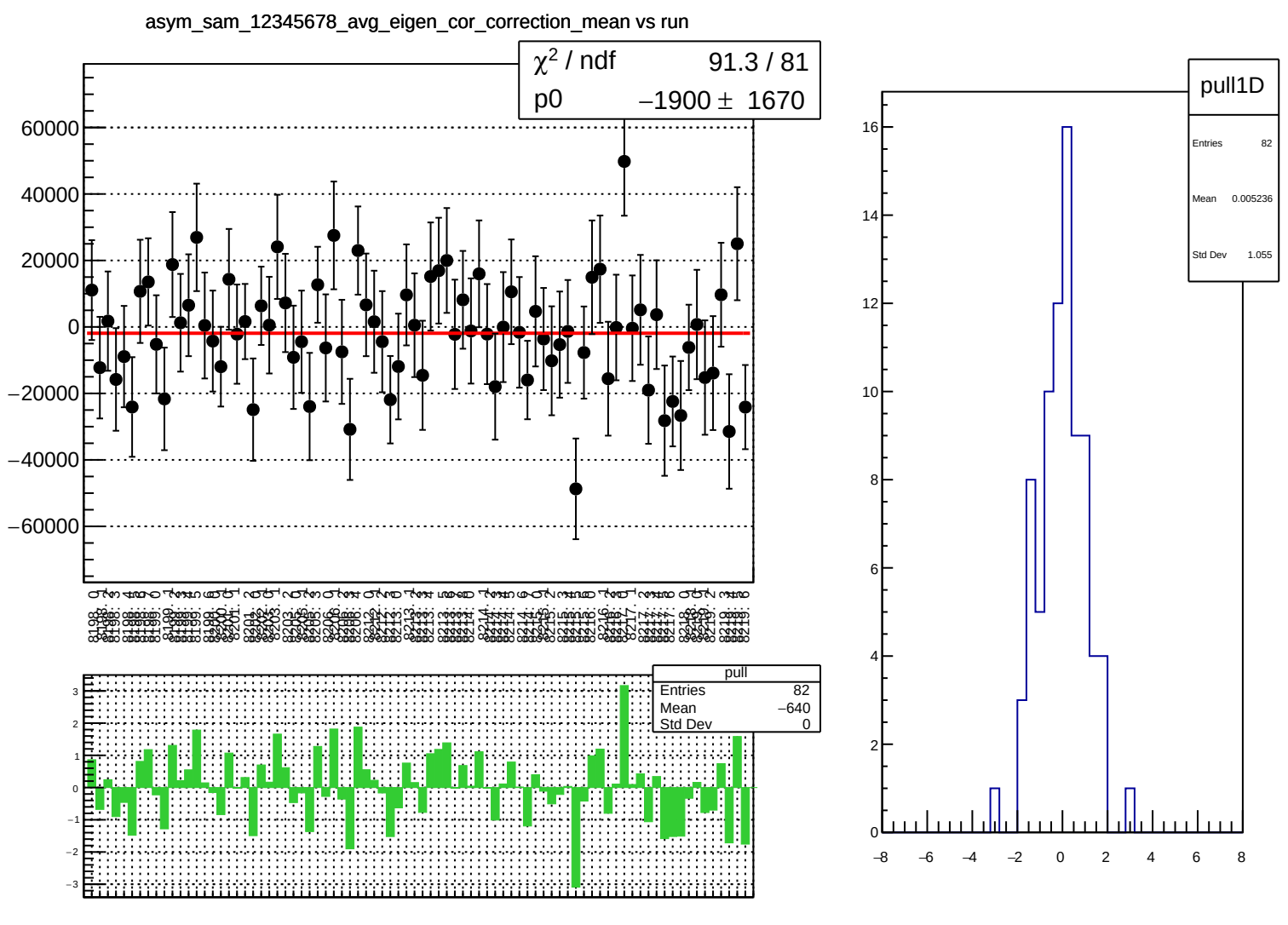

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 91.3 / 81
p0 −1900 ± 1670
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −640
Std Dev 0
3
2
1
0
−1
−2
−3

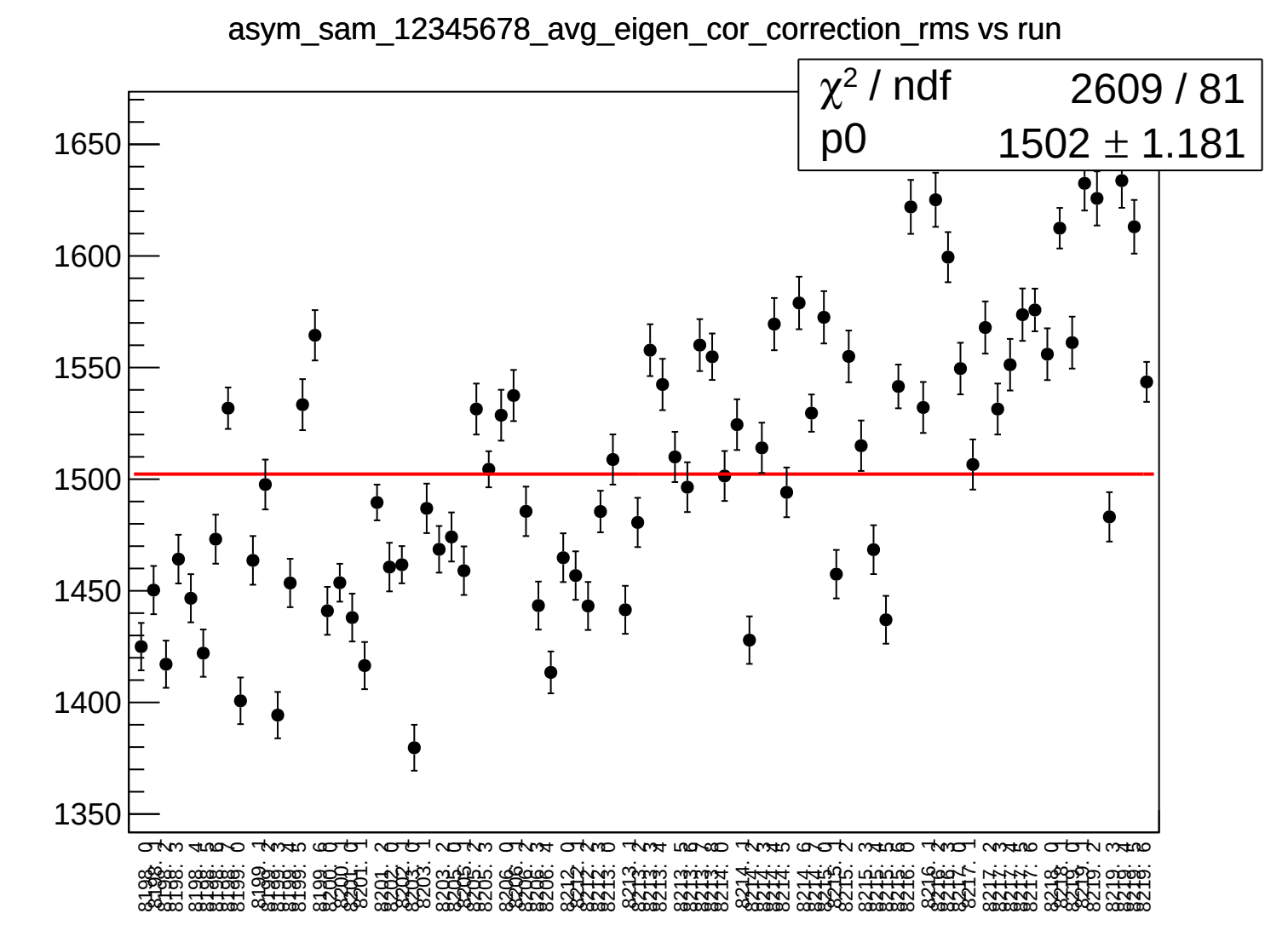

pull1D
Entries 82
Mean 0.005236
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

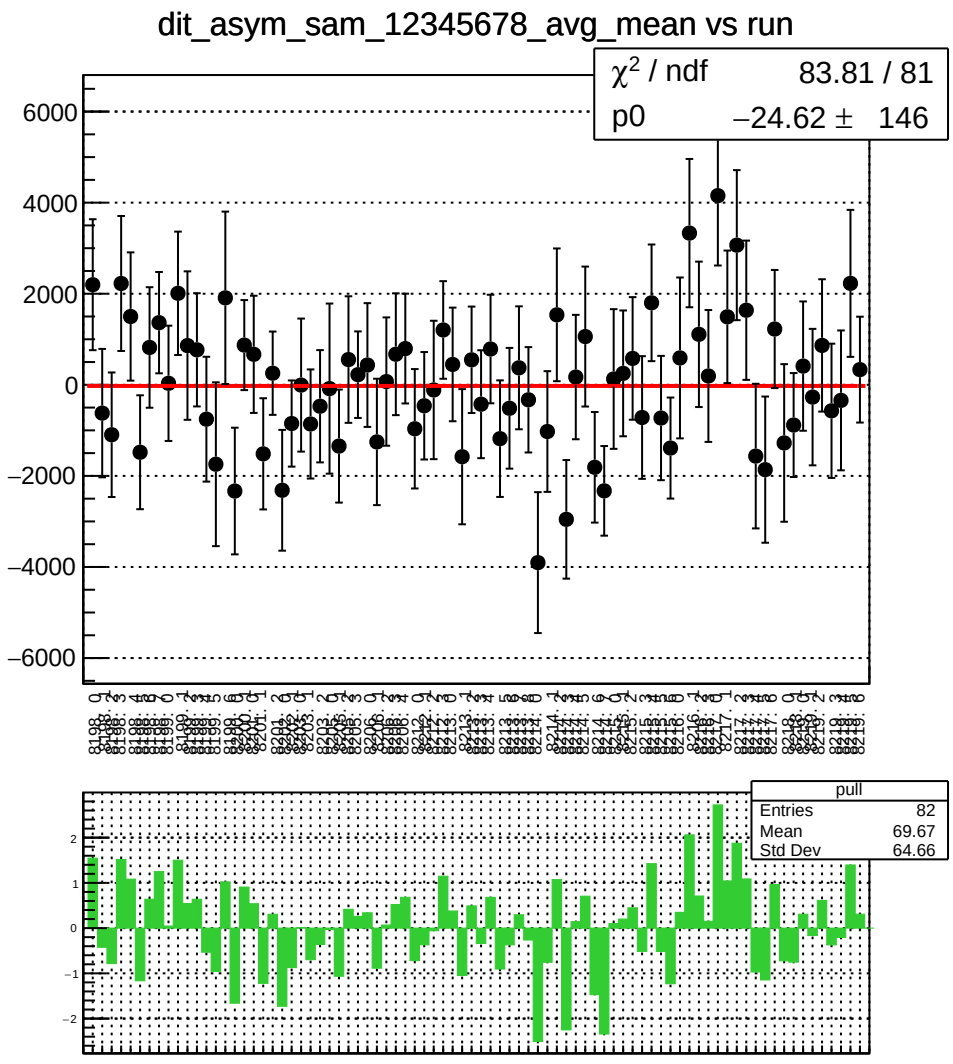

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 2609 / 81
p0 1502 ± 1.181
1650
1600
1550
1500
1450
1400
1350

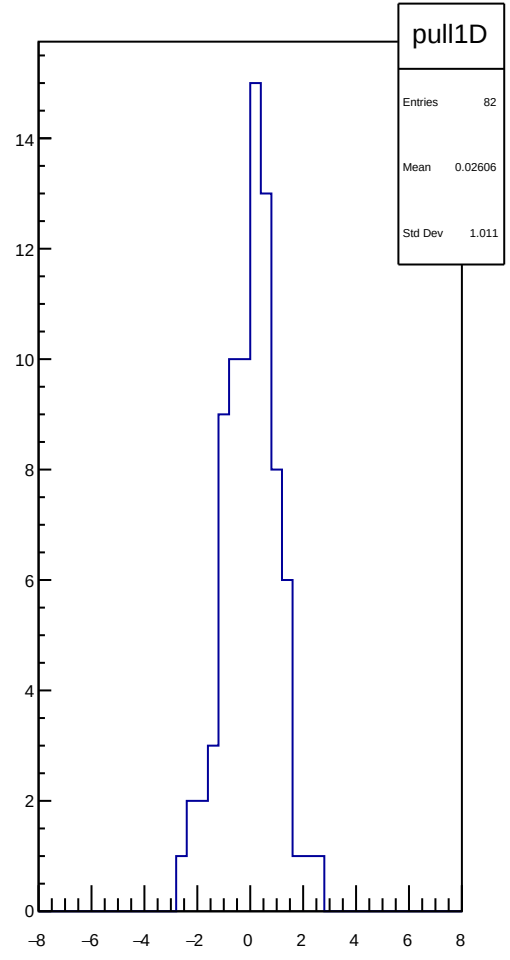

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 82.19 / 81
p0 35.49 ± 131.2
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 546.5
Std Dev 0
pull1D
Entries 82
Mean 0.001367
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

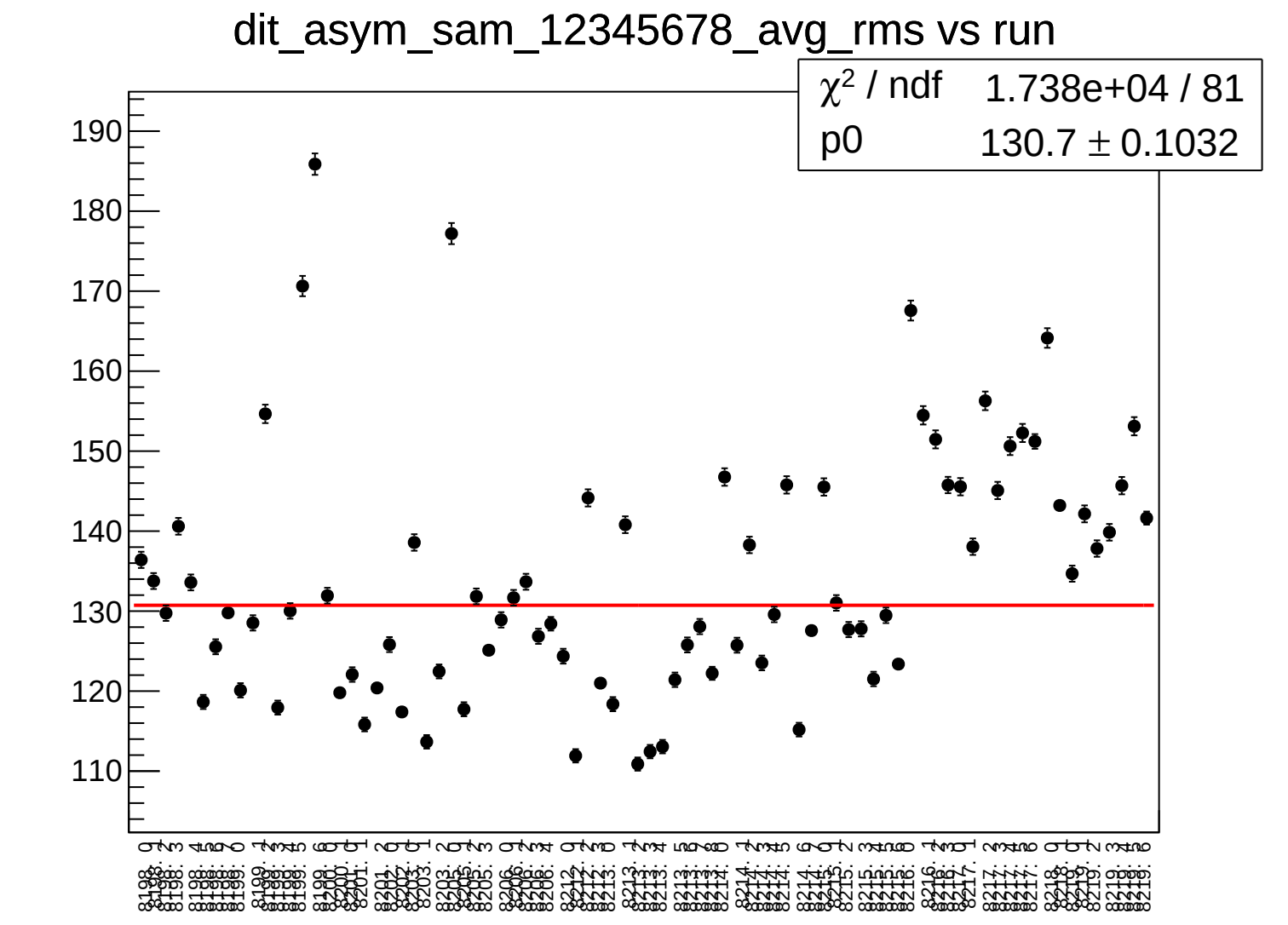

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.307e+04 / 81
p0 117.7 ± 0.0928
180
170
160
150
140
130
120
110
100

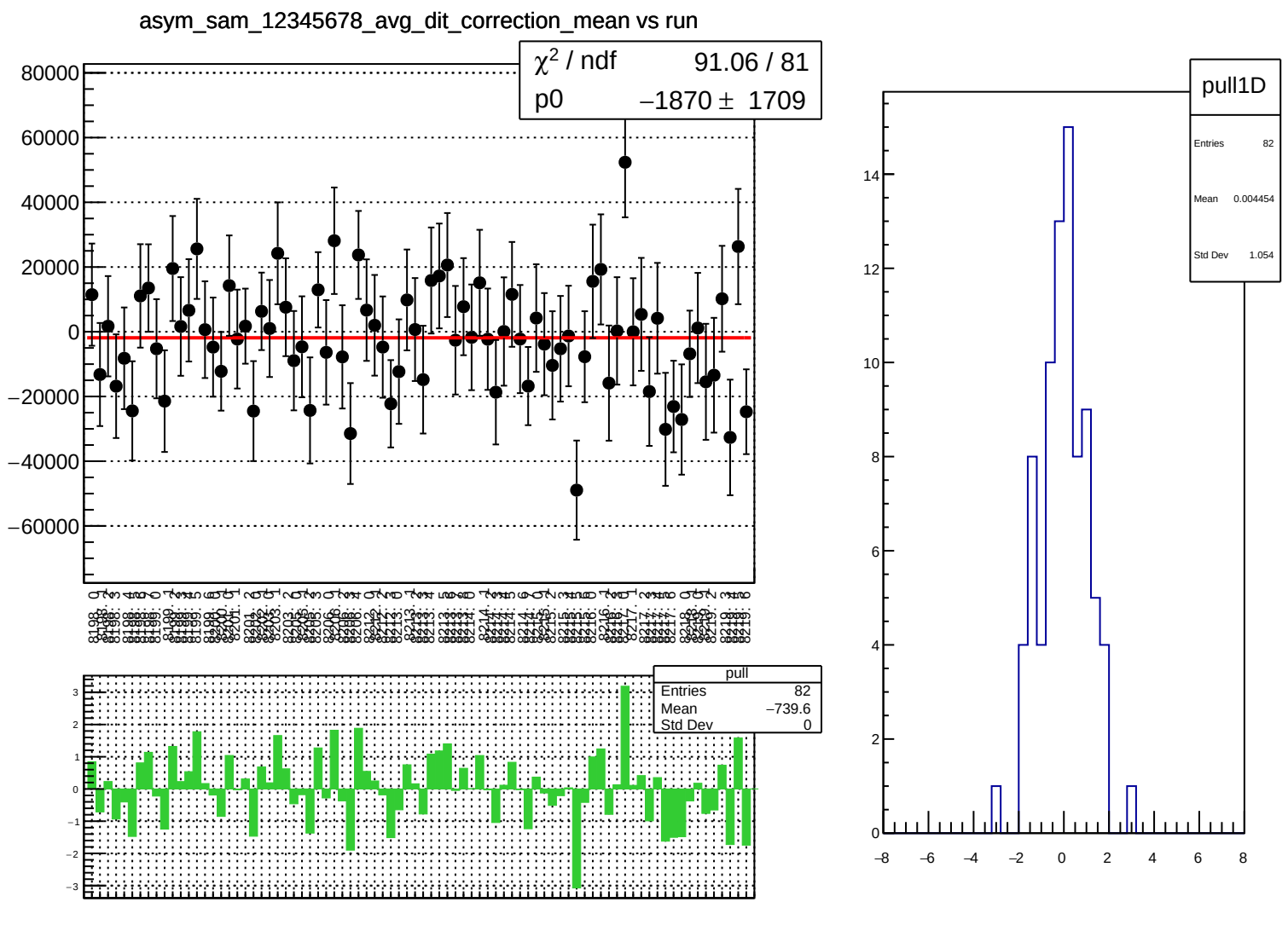

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.3 / 81
p0 −1900 ± 1670
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −640
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.005236
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

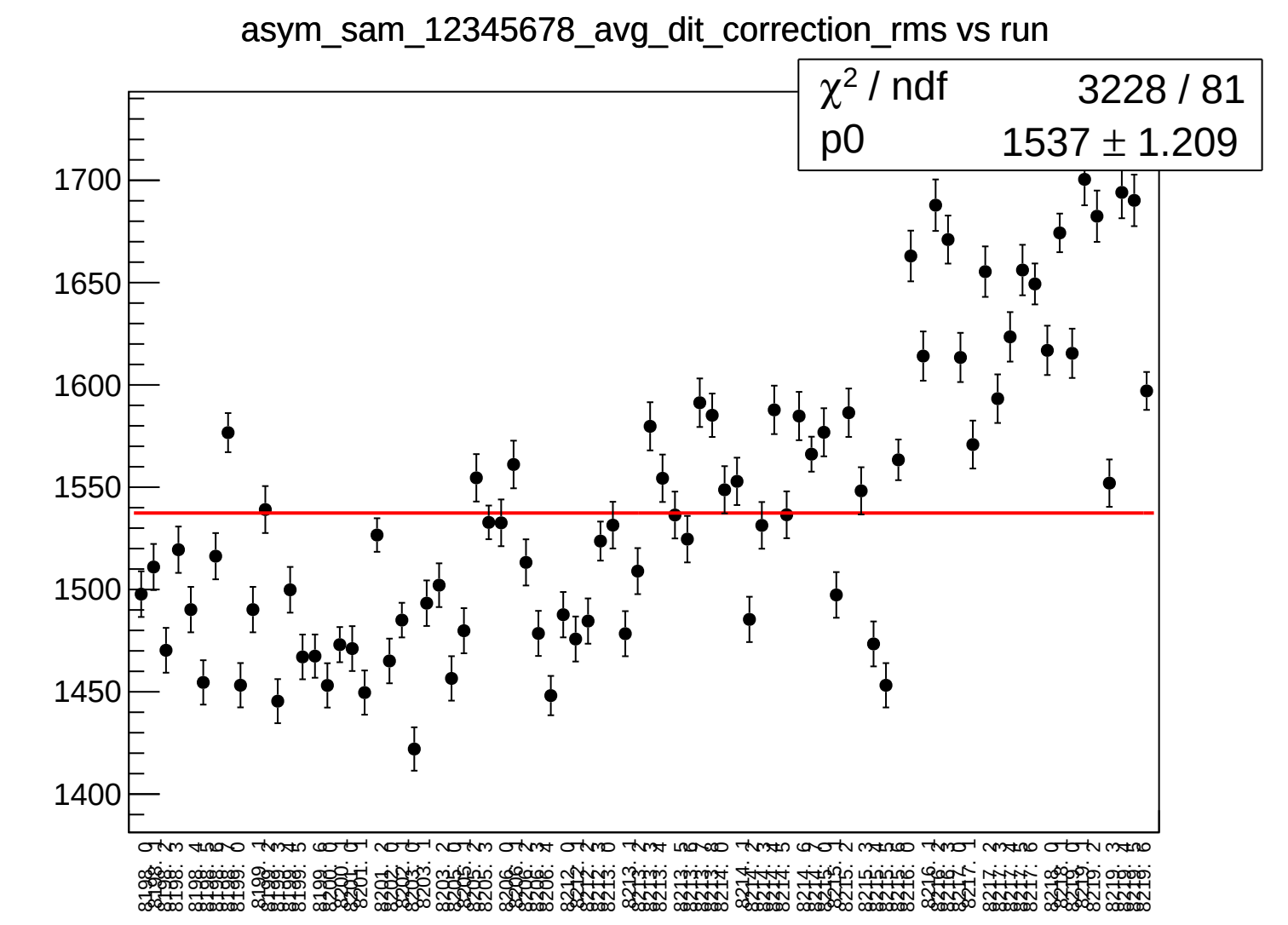

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 2609 / 81
p0 1502 ± 1.181
1650
1600
1550
1500
1450
1400
1350

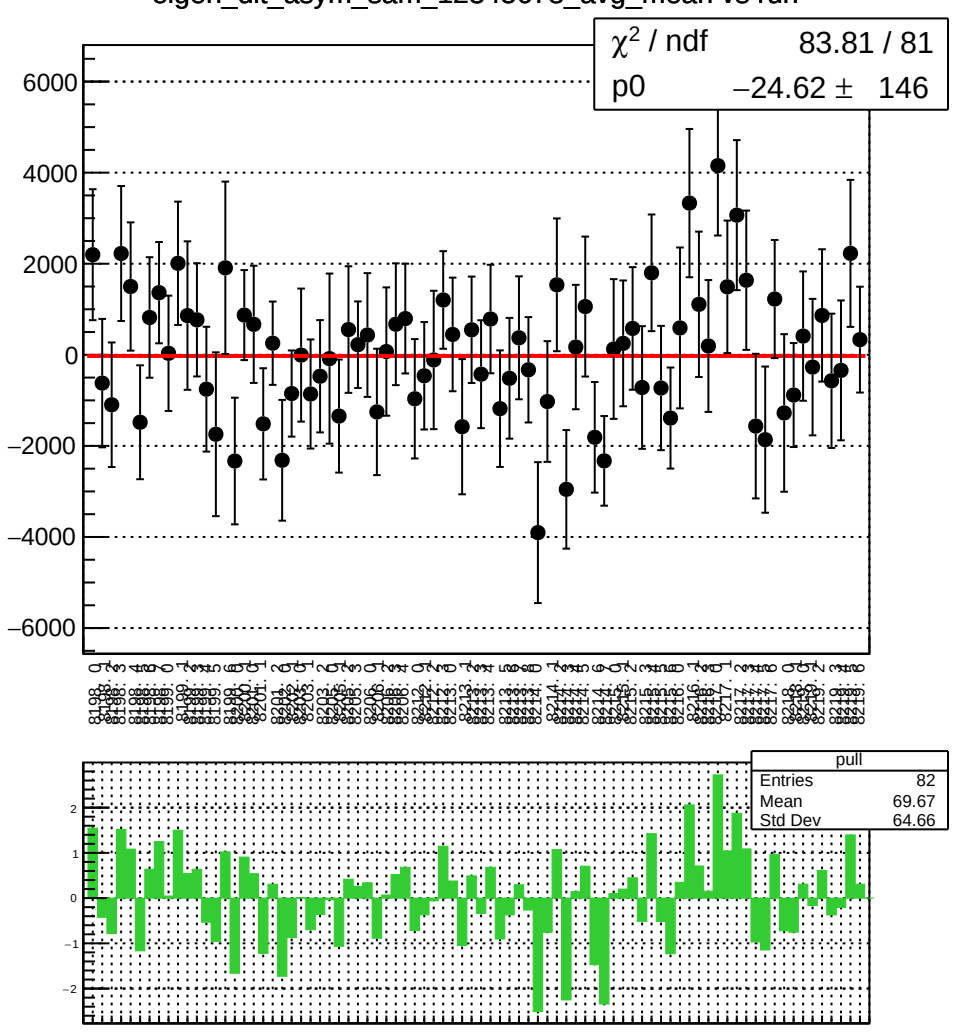

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 83.81 / 81
p0 −24.62 ± 146
pull
Entries 82
Mean 69.67
Std Dev 64.66

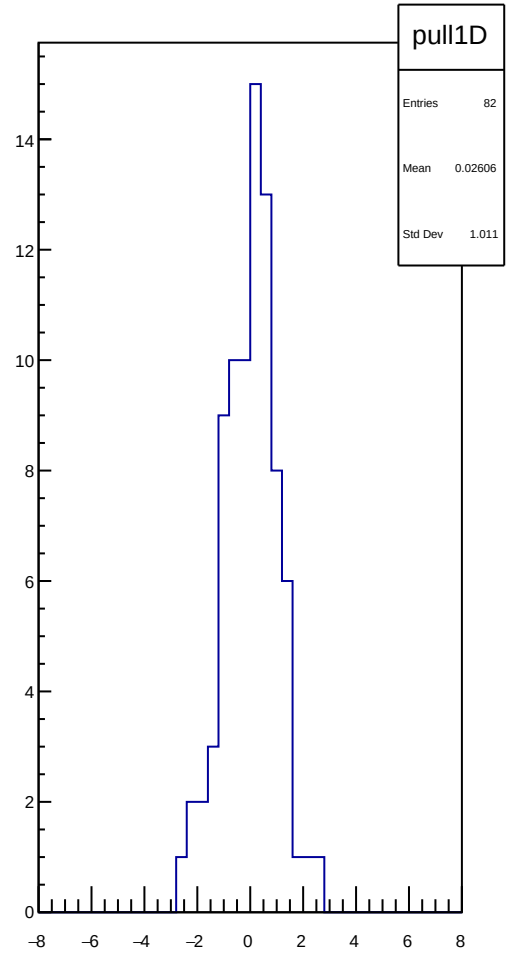

pull1D
Entries 82
Mean 0.02606
Std Dev 1.011

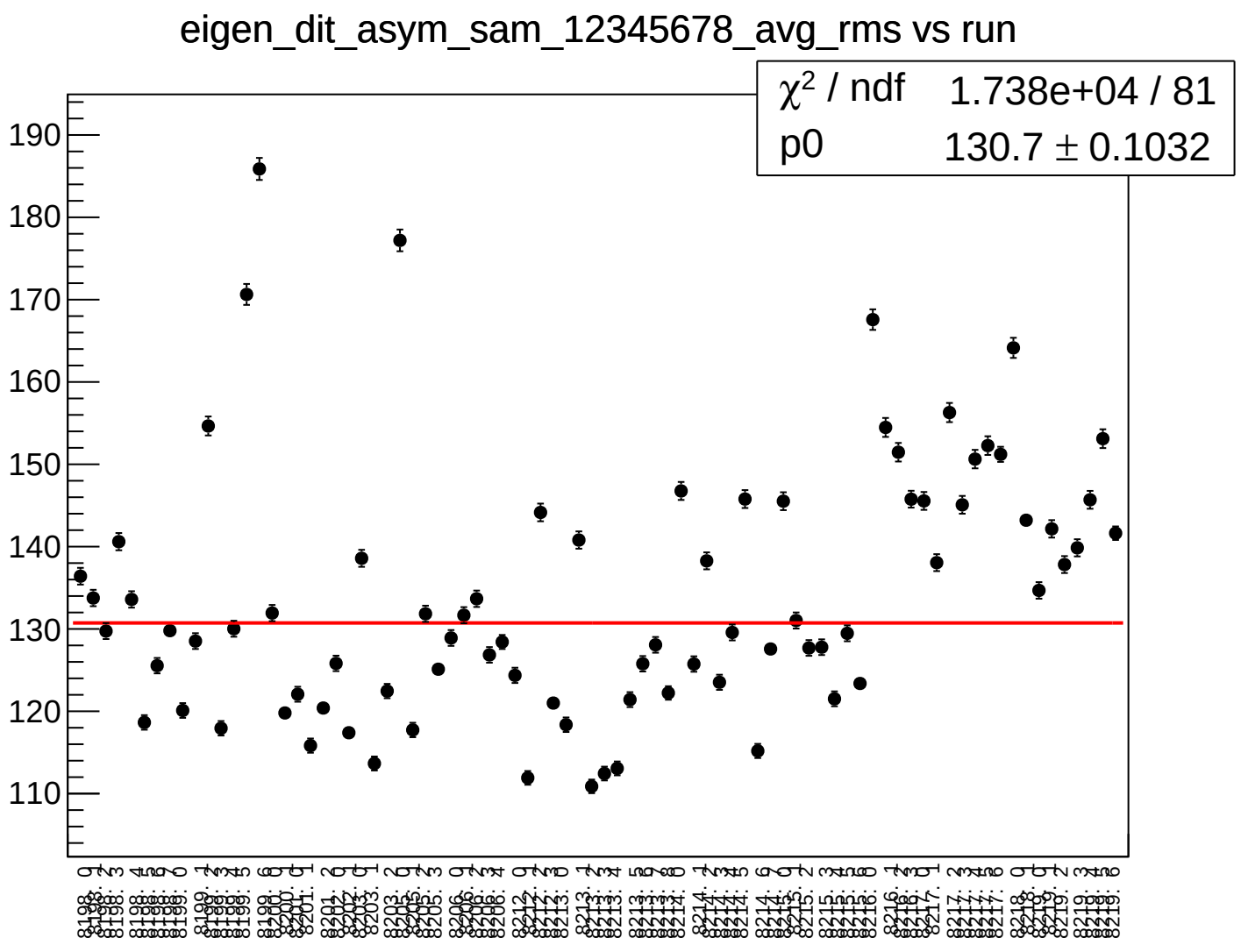

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.738e+04 / 81
p0 130.7 ± 0.1032
190
180
170
160
150
140
130
120
110

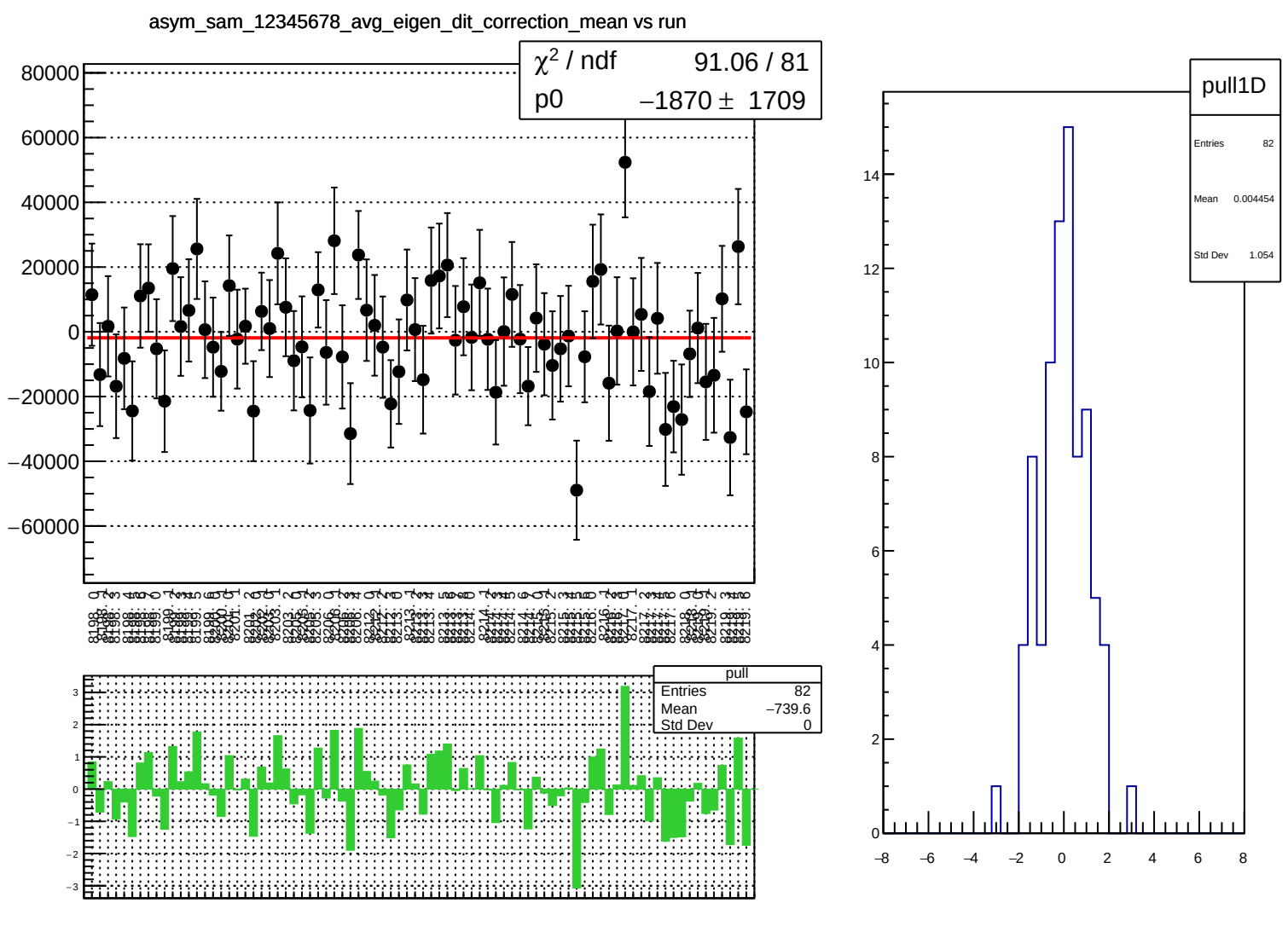

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 91.06 / 81
p0 −1870 ± 1709
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −739.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.004454
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

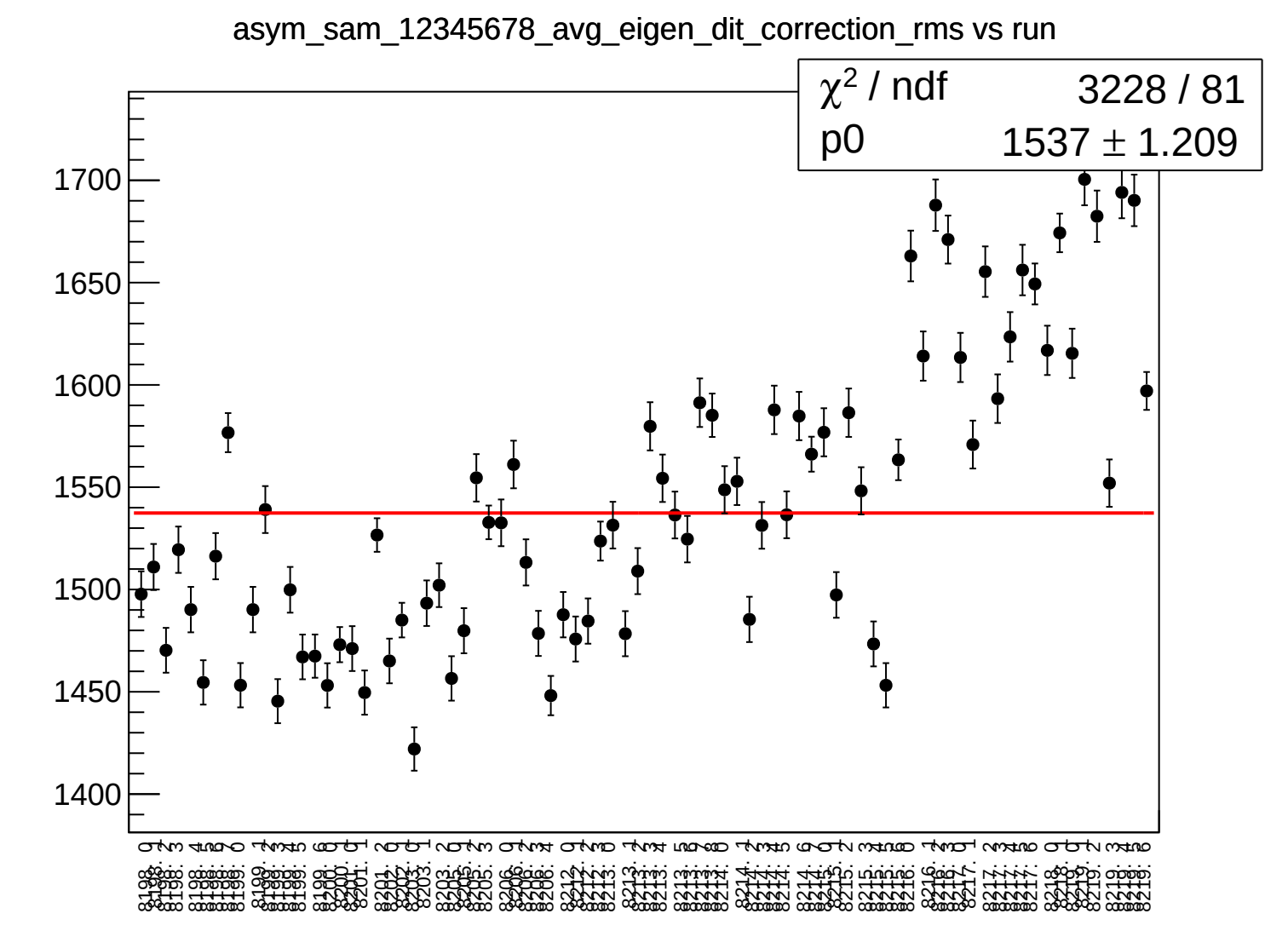

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 3228 / 81
p0 1537 ± 1.209
1700
1650
1600
1550
1500
1450
1400

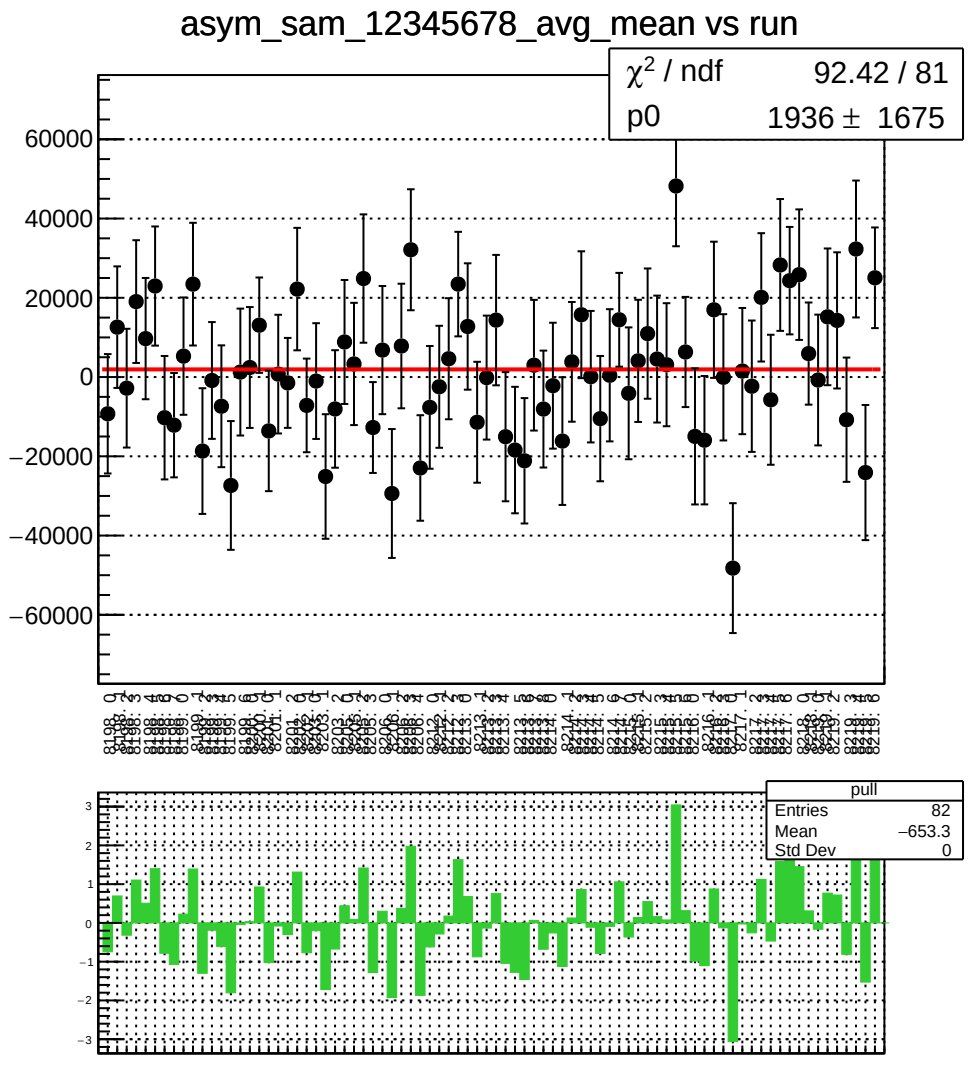

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 83.81 / 81
p0 −24.62 ± 146
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean 69.67
Std Dev 64.66
2
1
0
−1
−2

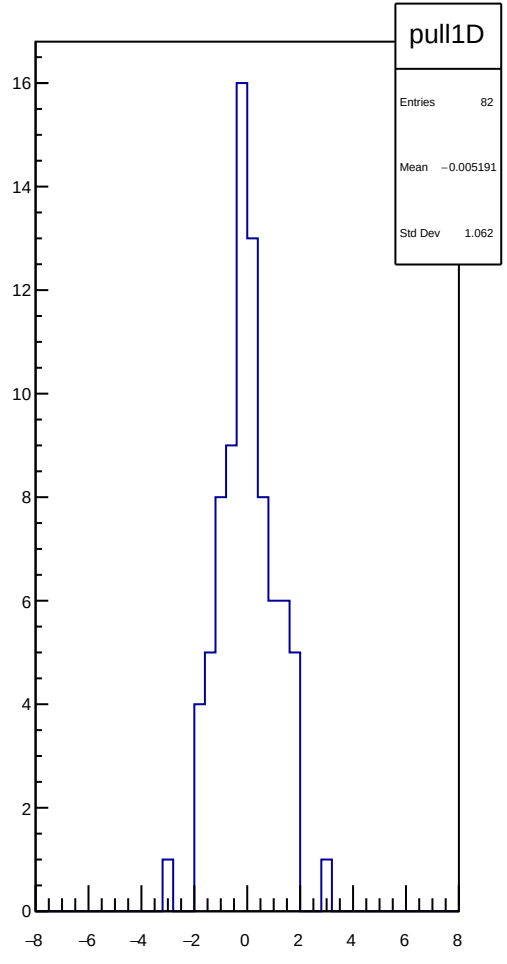

pull1D
Entries 82
Mean 0.02606
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

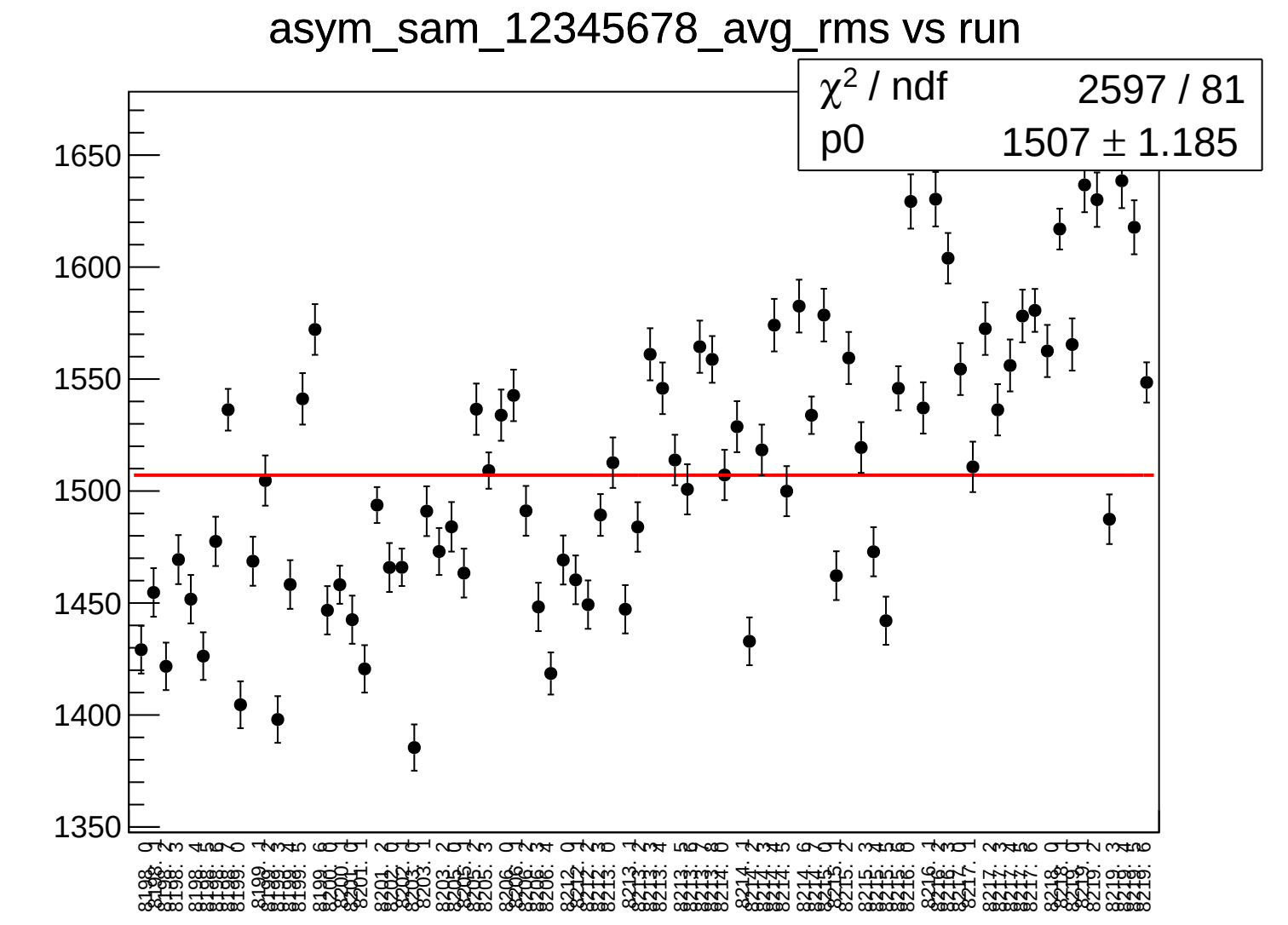

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.738e+04 / 81
p0 130.7 ± 0.1032
190
180
170
160
150
140
130
120
110

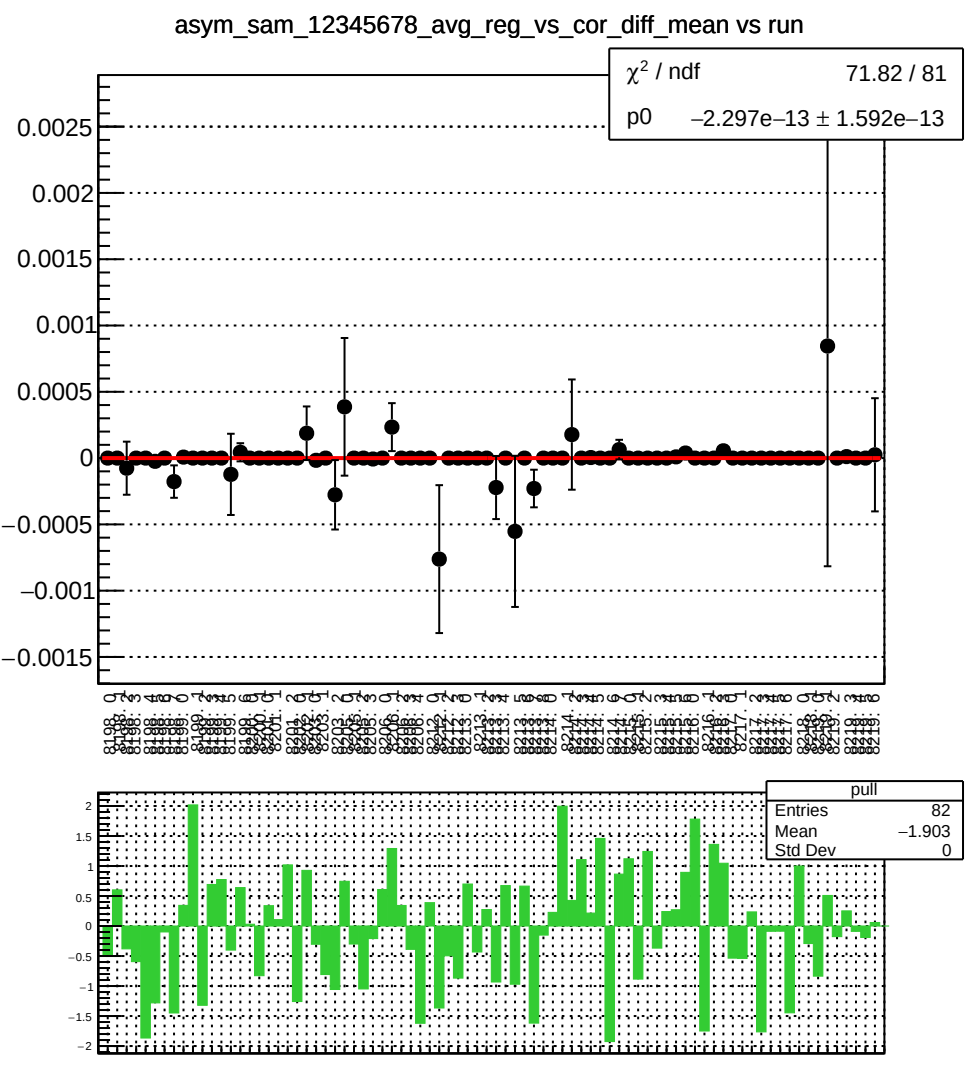

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.06 / 81
p0 −1870 ± 1709
pull
Entries 82
Mean −739.6
Std Dev 0
pull1D
Entries 82
Mean 0.004454
Std Dev 1.054

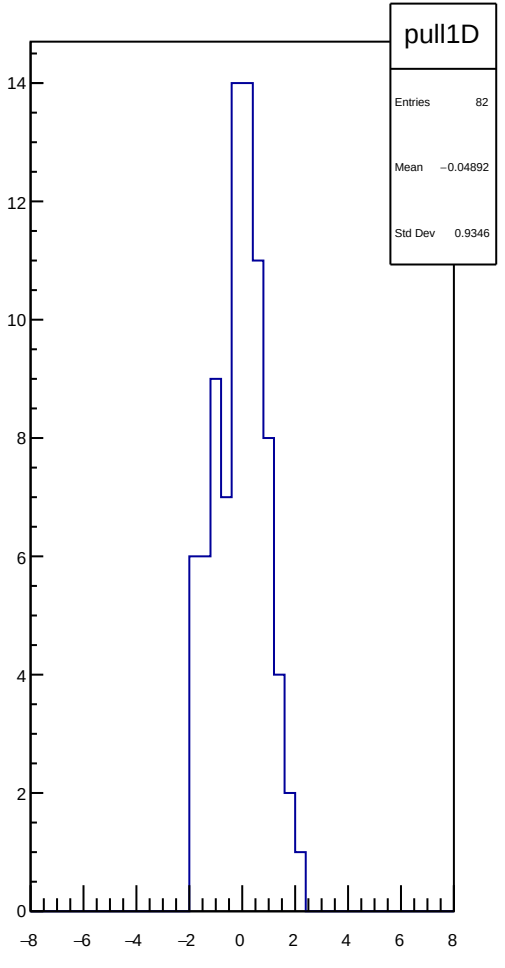

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 3228 / 81
p0 1537 ± 1.209
1700
1650
1600
1550
1500
1450
1400

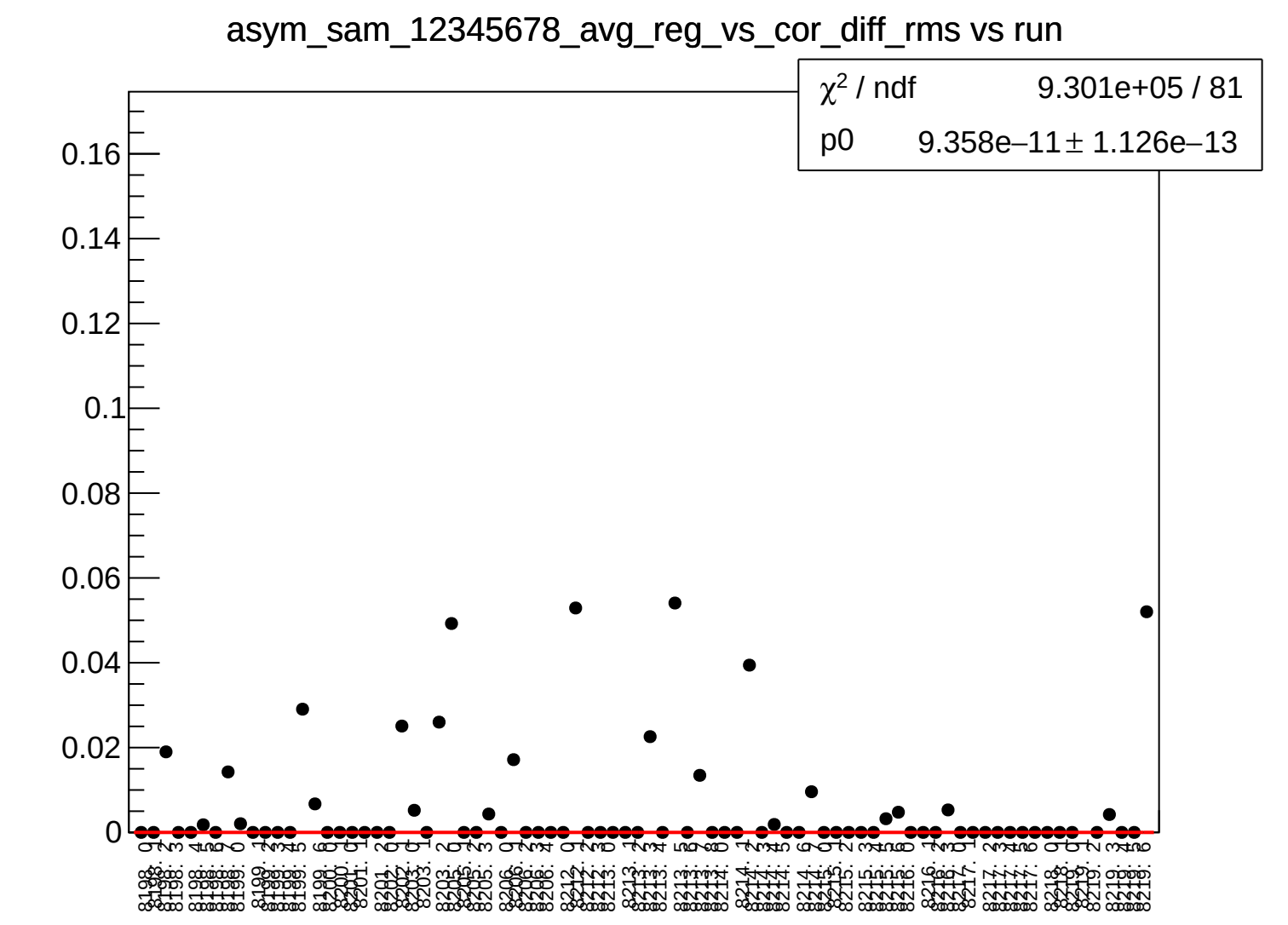

asym_sam_12345678_avg_mean vs run
χ² / ndf 92.42 / 81
p0 1936 ± 1675
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −653.3
Std Dev 0
3
2
1
0
−1
−2
−3

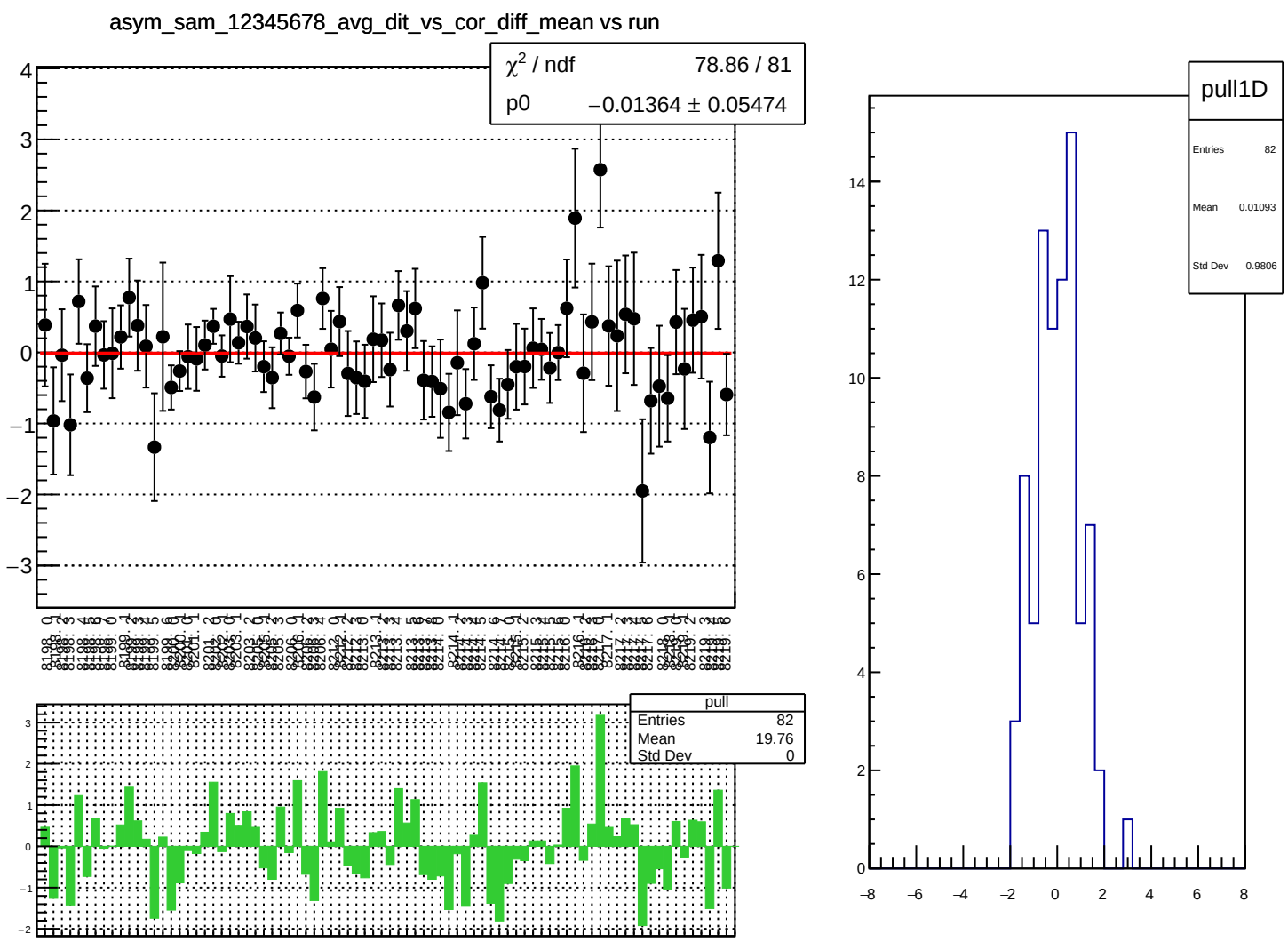

pull1D
Entries 82
Mean −0.005191
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

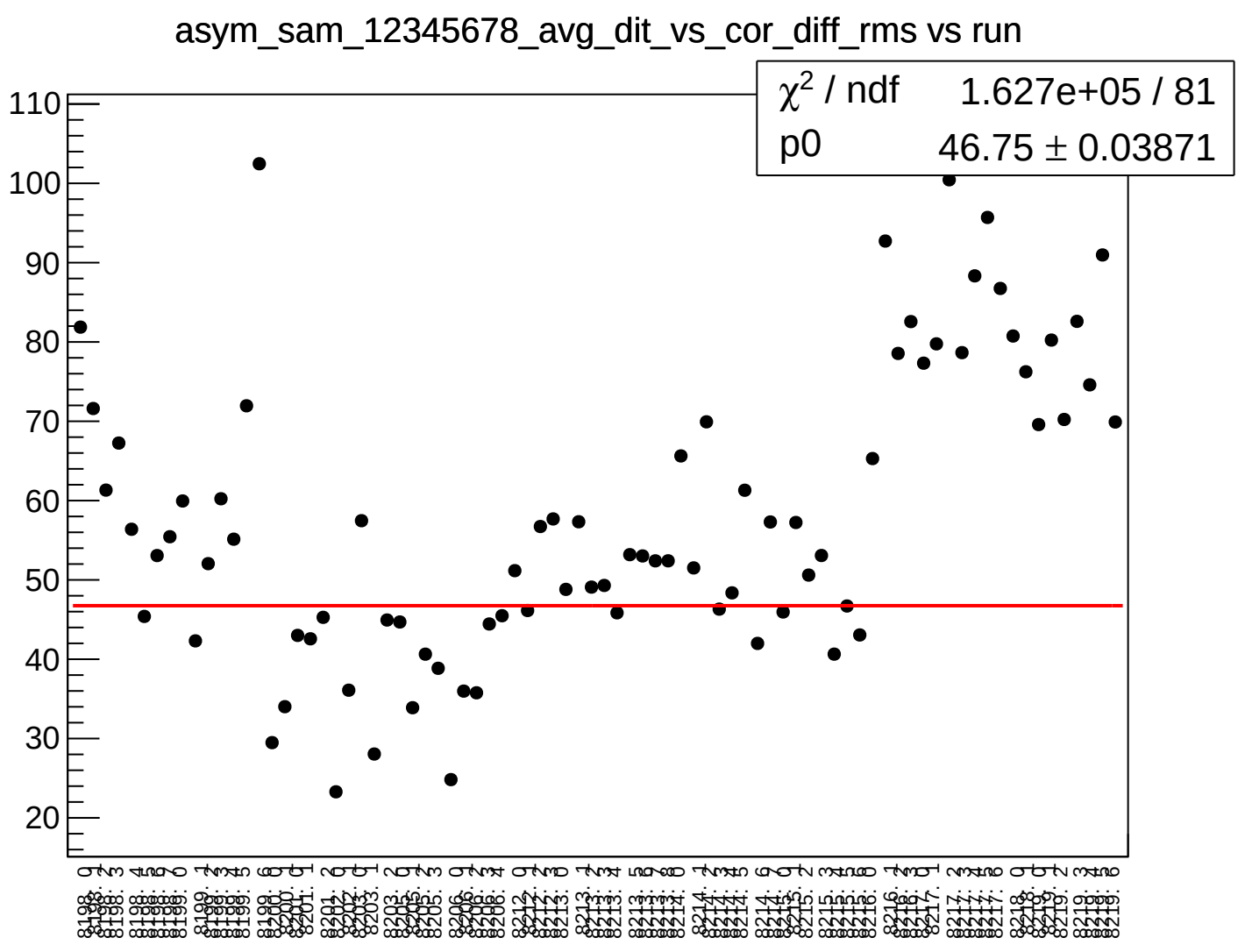

asym_sam_12345678_avg_rms vs run
χ² / ndf 2597 / 81
p0 1507 ± 1.185
1650
1600
1550
1500
1450
1400
1350

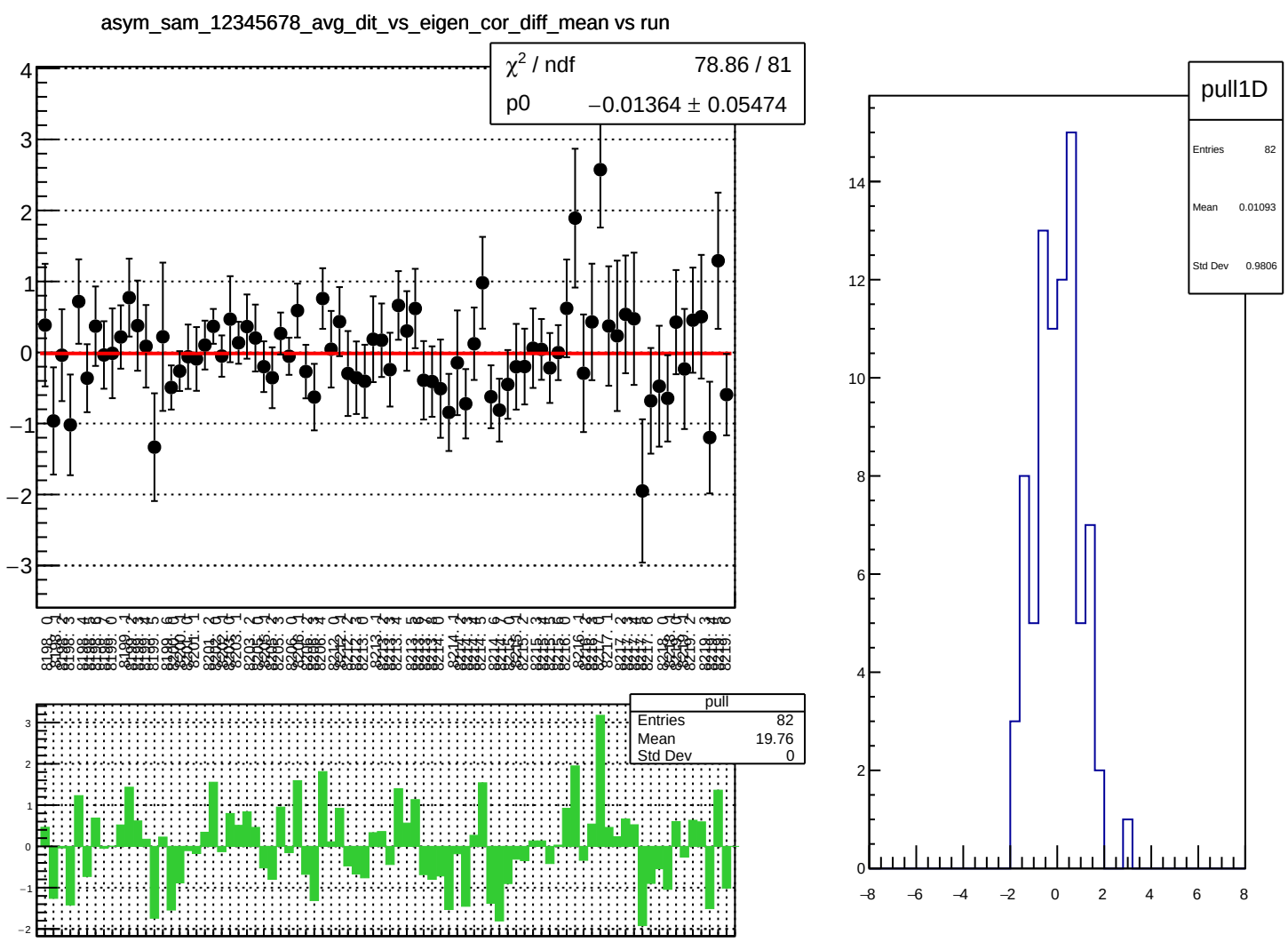

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.82 / 81
p0 −2.297e−13 ± 1.592e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 82
Mean −1.903
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

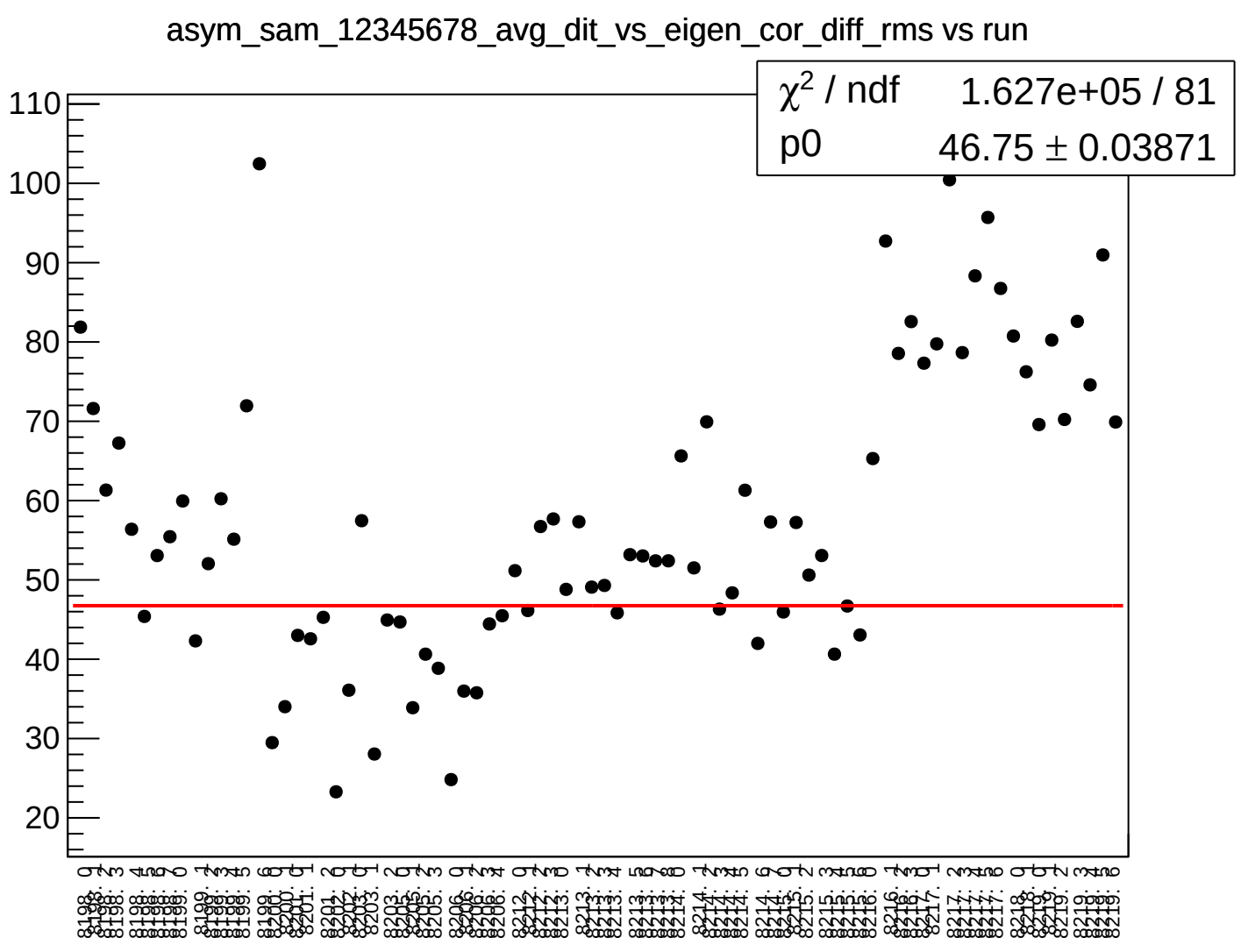

pull1D
Entries 82
Mean −0.04892
Std Dev 0.9346
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

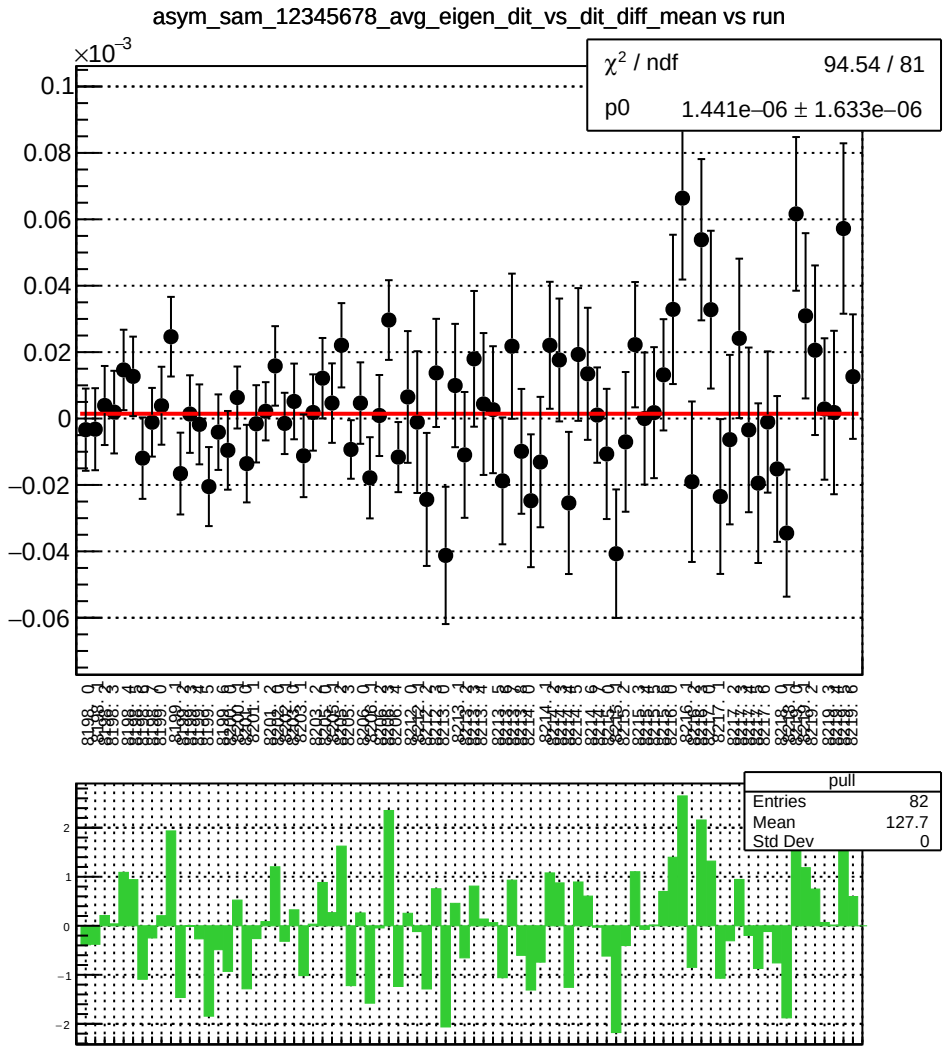

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.301e+05 / 81
p0 9.358e−11 ± 1.126e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

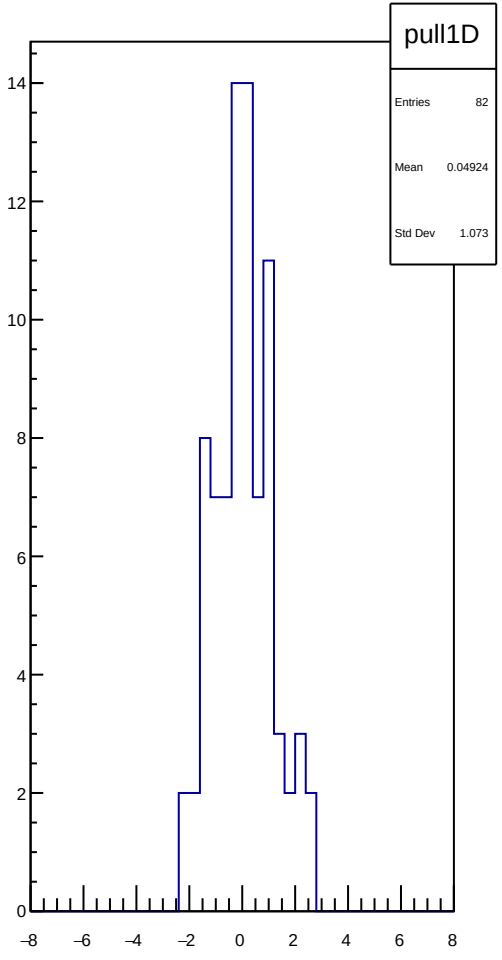

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.86 / 81
p0 −0.01364 ± 0.05474
pull
Entries 82
Mean 19.76
Std Dev 0
pull1D
Entries 82
Mean 0.01093
Std Dev 0.9806

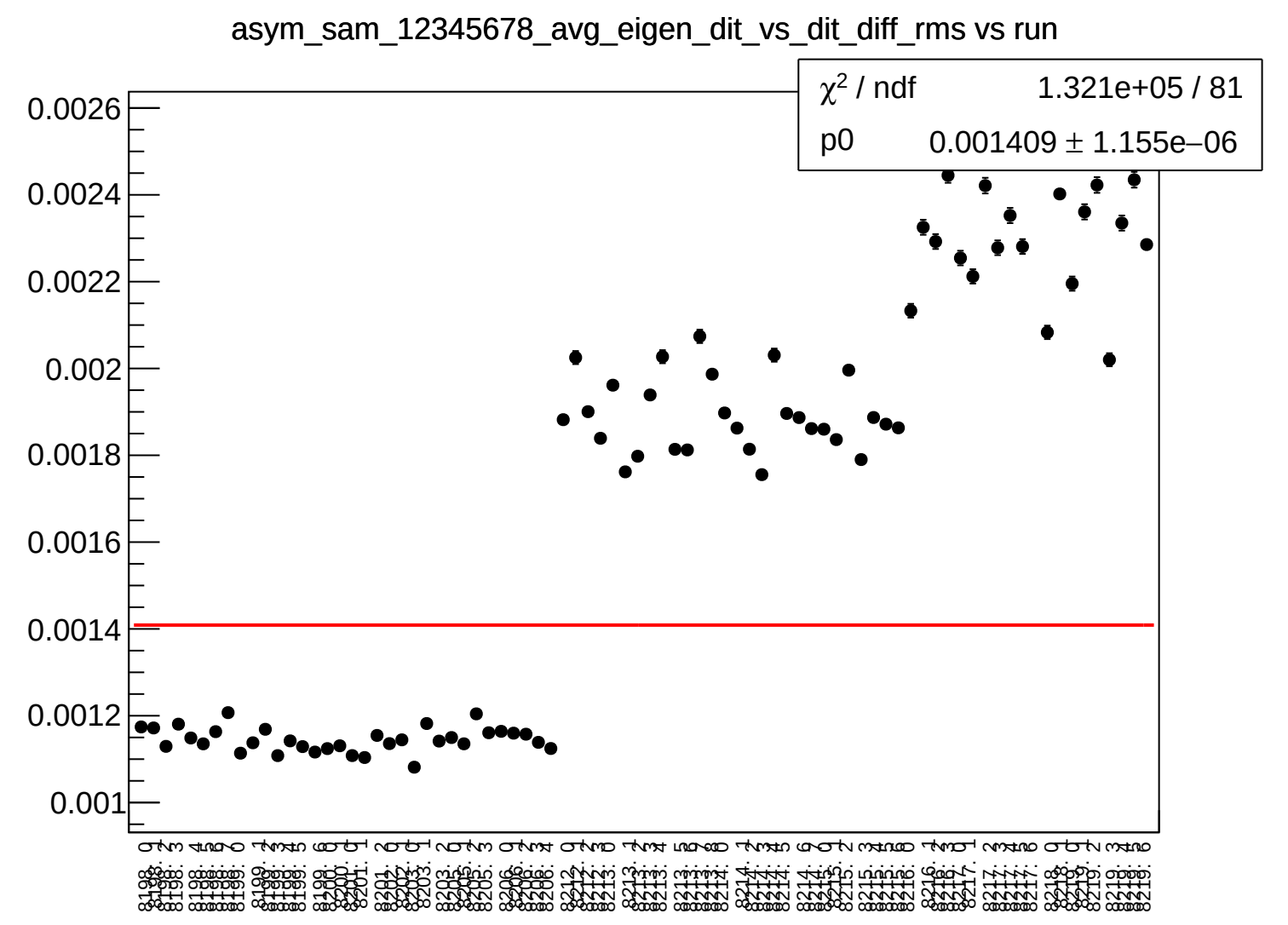

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.627e+05 / 81
p0 46.75 ± 0.03871
110
100
90
80
70
60
50
40
30
20

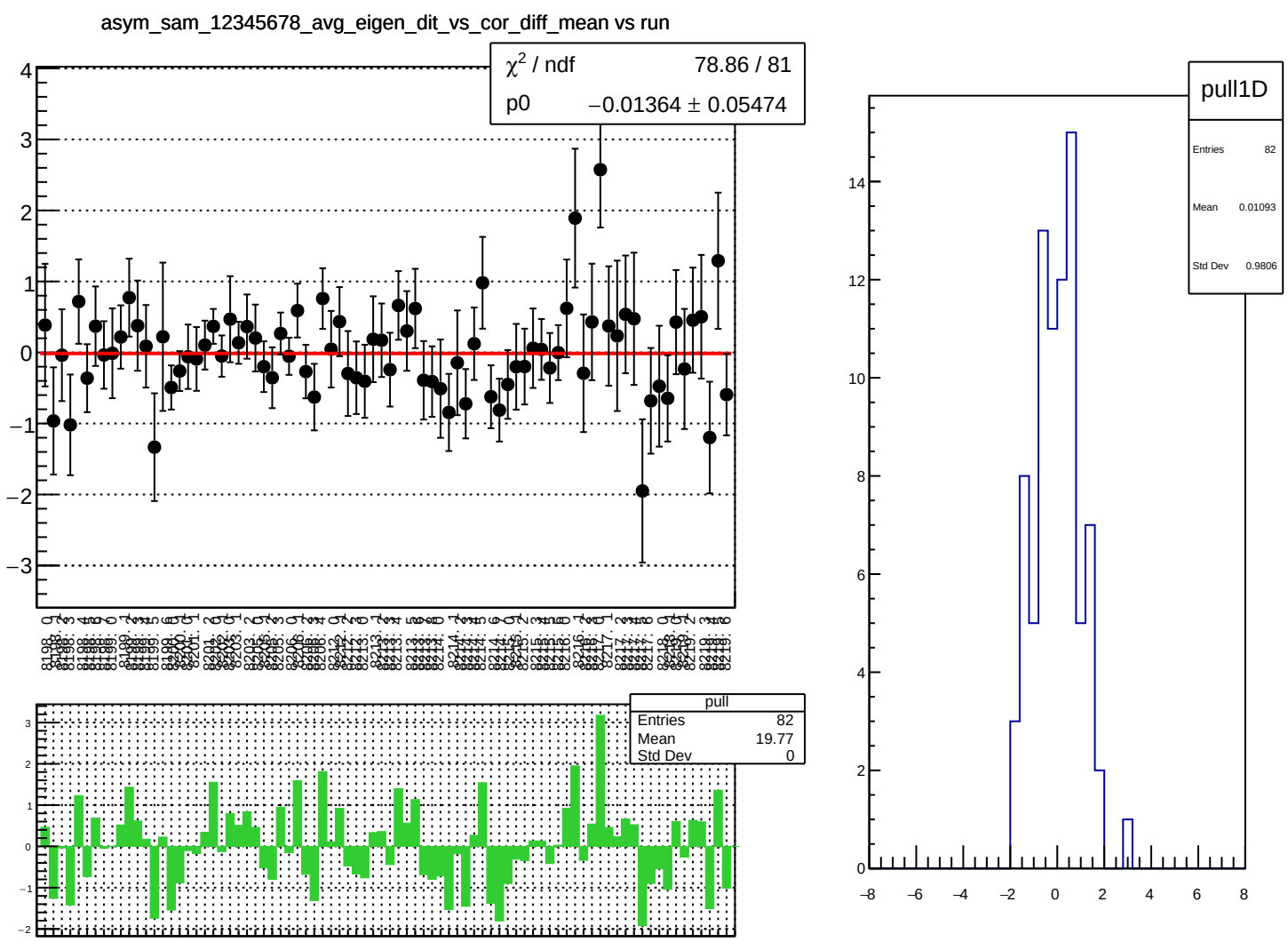

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.86 / 81
p0 −0.01364 ± 0.05474
pull
Entries 82
Mean 19.76
Std Dev 0
pull1D
Entries 82
Mean 0.01093
Std Dev 0.9806

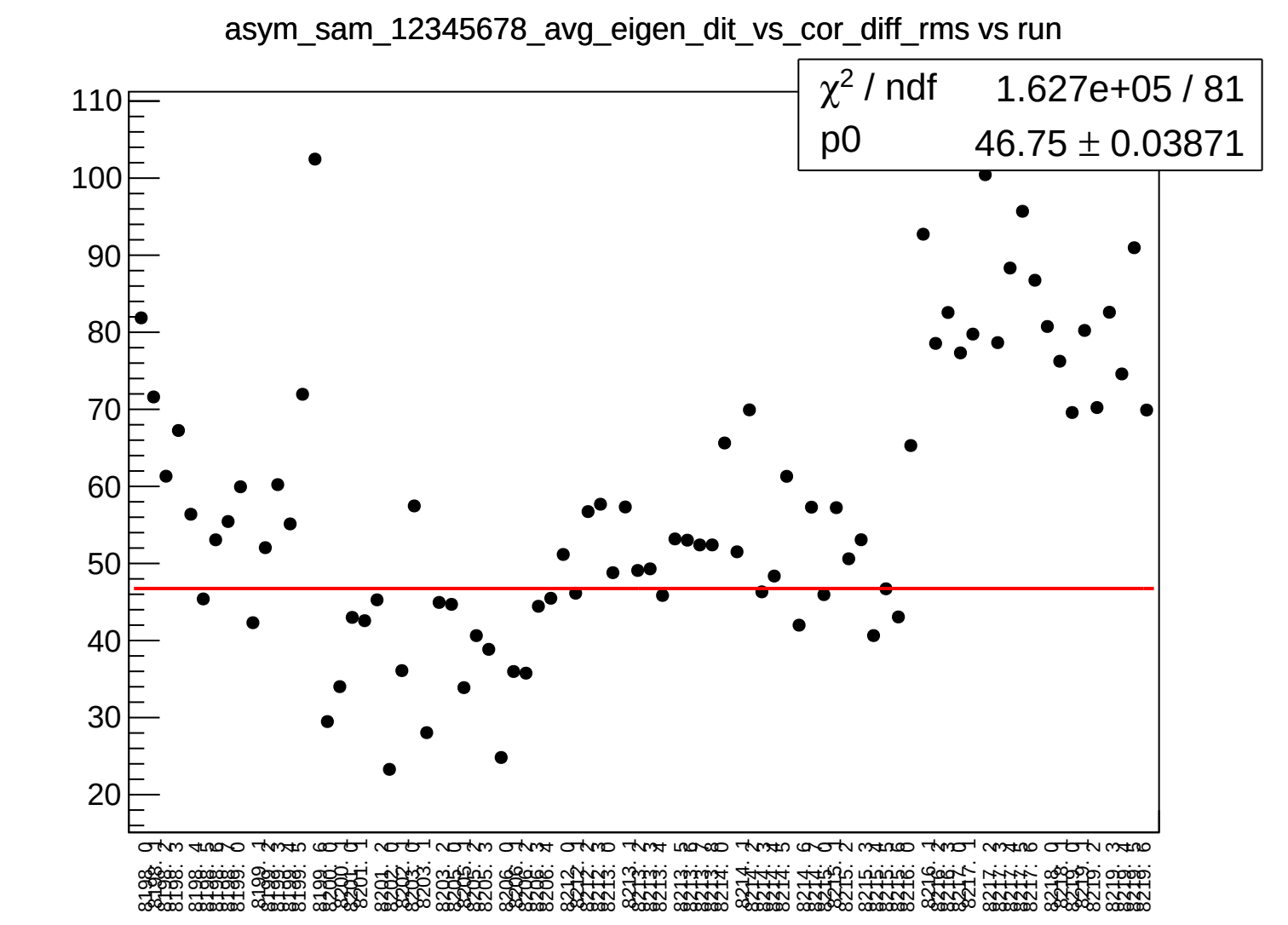

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.627e+05 / 81
p0 46.75 ± 0.03871
110
100
90
80
70
60
50
40
30
20

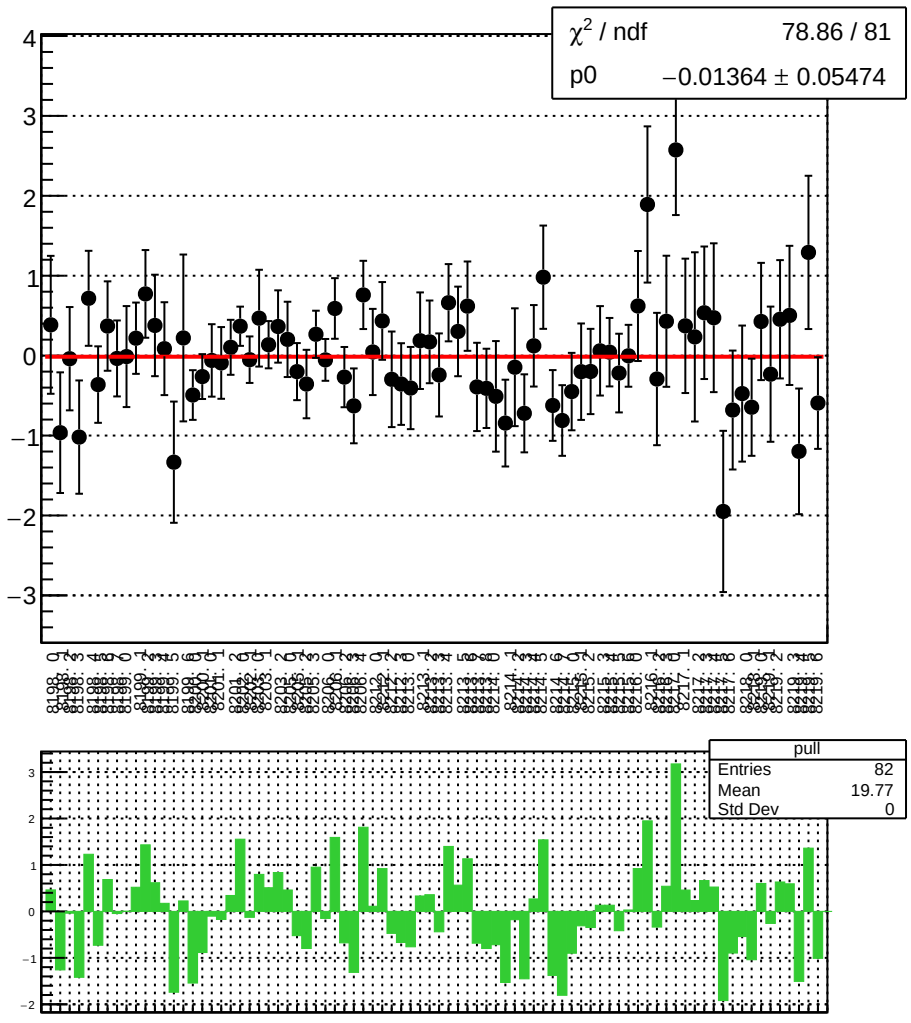

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 94.54 / 81
p0 1.441e−06 ± 1.633e−06
pull
Entries 82
Mean 127.7
Std Dev 0

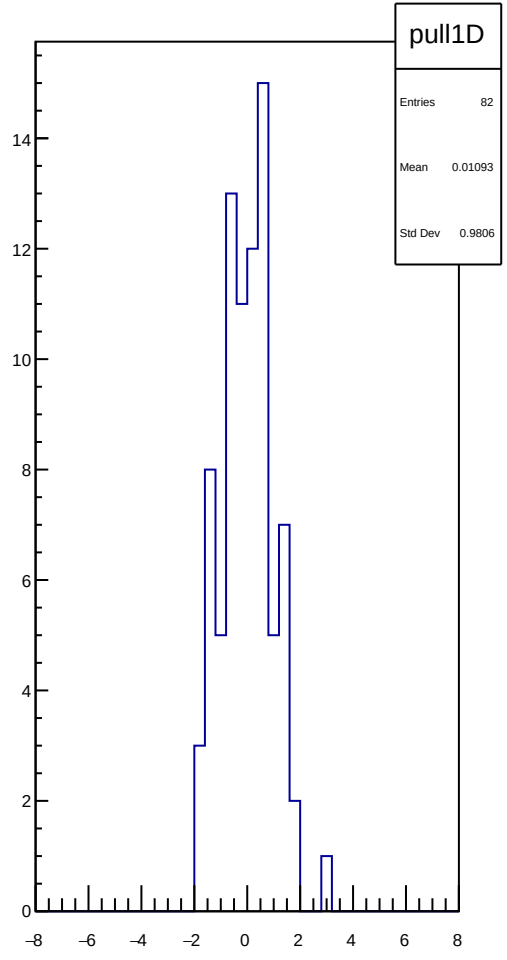

pull1D
Entries 82
Mean 0.04924
Std Dev 1.073

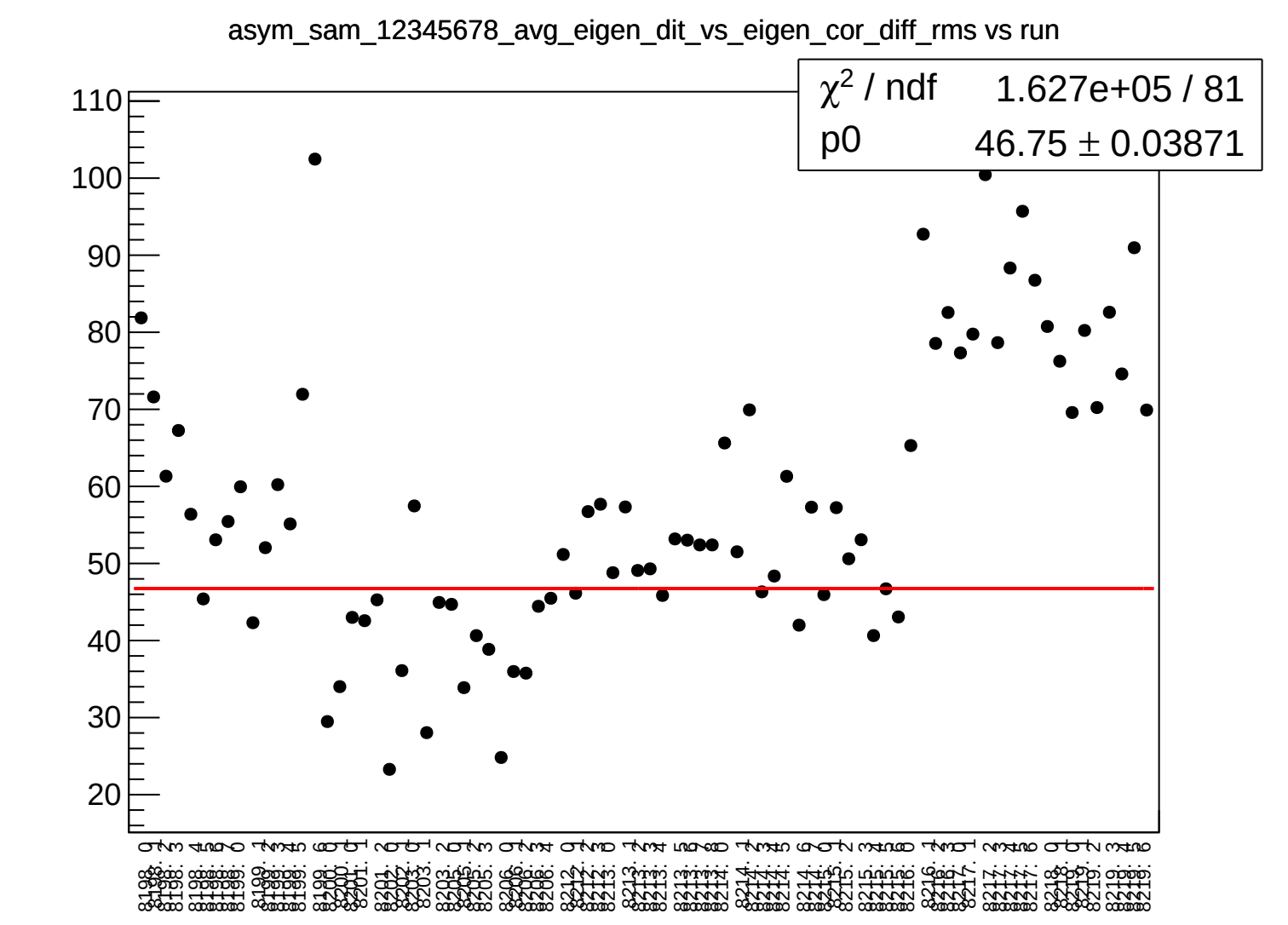

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.321e+05 / 81
p0 0.001409 ± 1.155e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

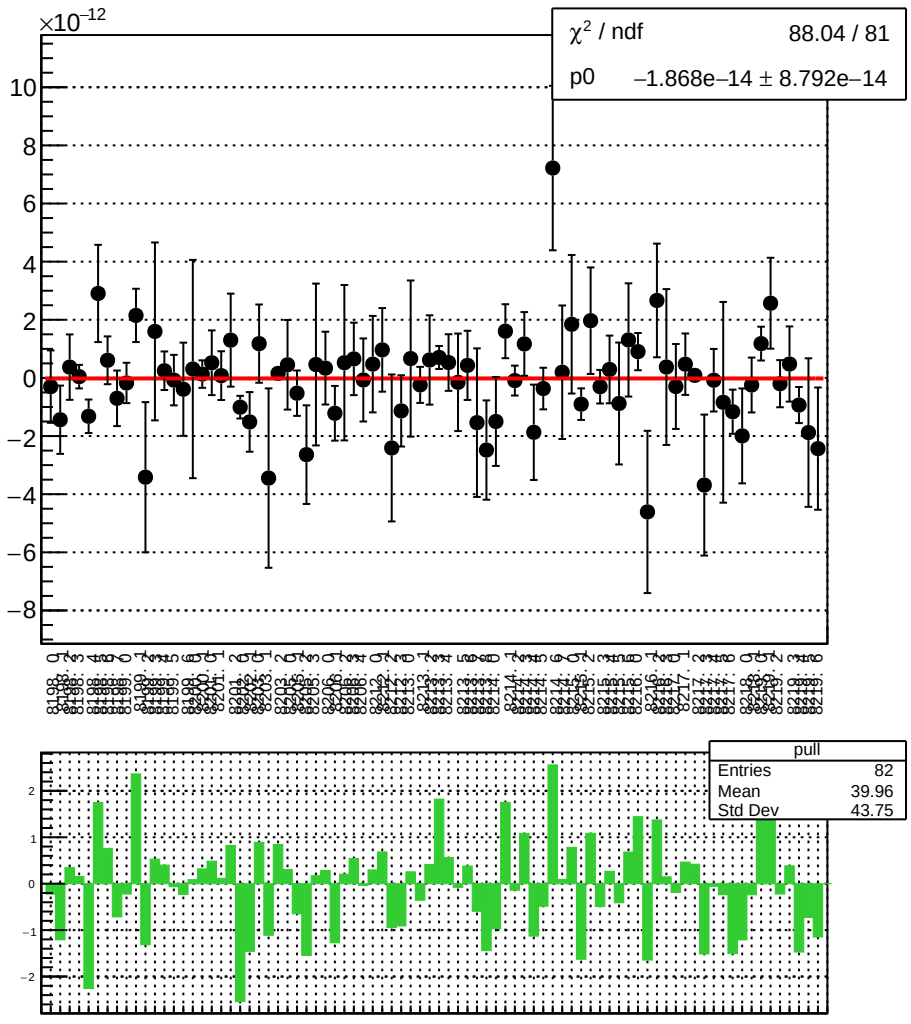

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.86 / 81
p0 −0.01364 ± 0.05474
pull
Entries 82
Mean 19.77
Std Dev 0
pull1D
Entries 82
Mean 0.01093
Std Dev 0.9806

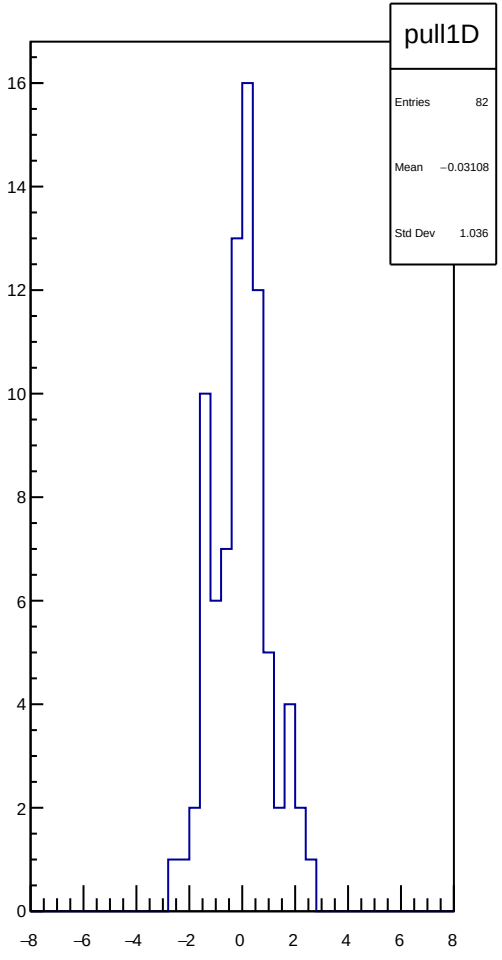

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.627e+05 / 81
p0 46.75 ± 0.03871
110
100
90
80
70
60
50
40
30
20

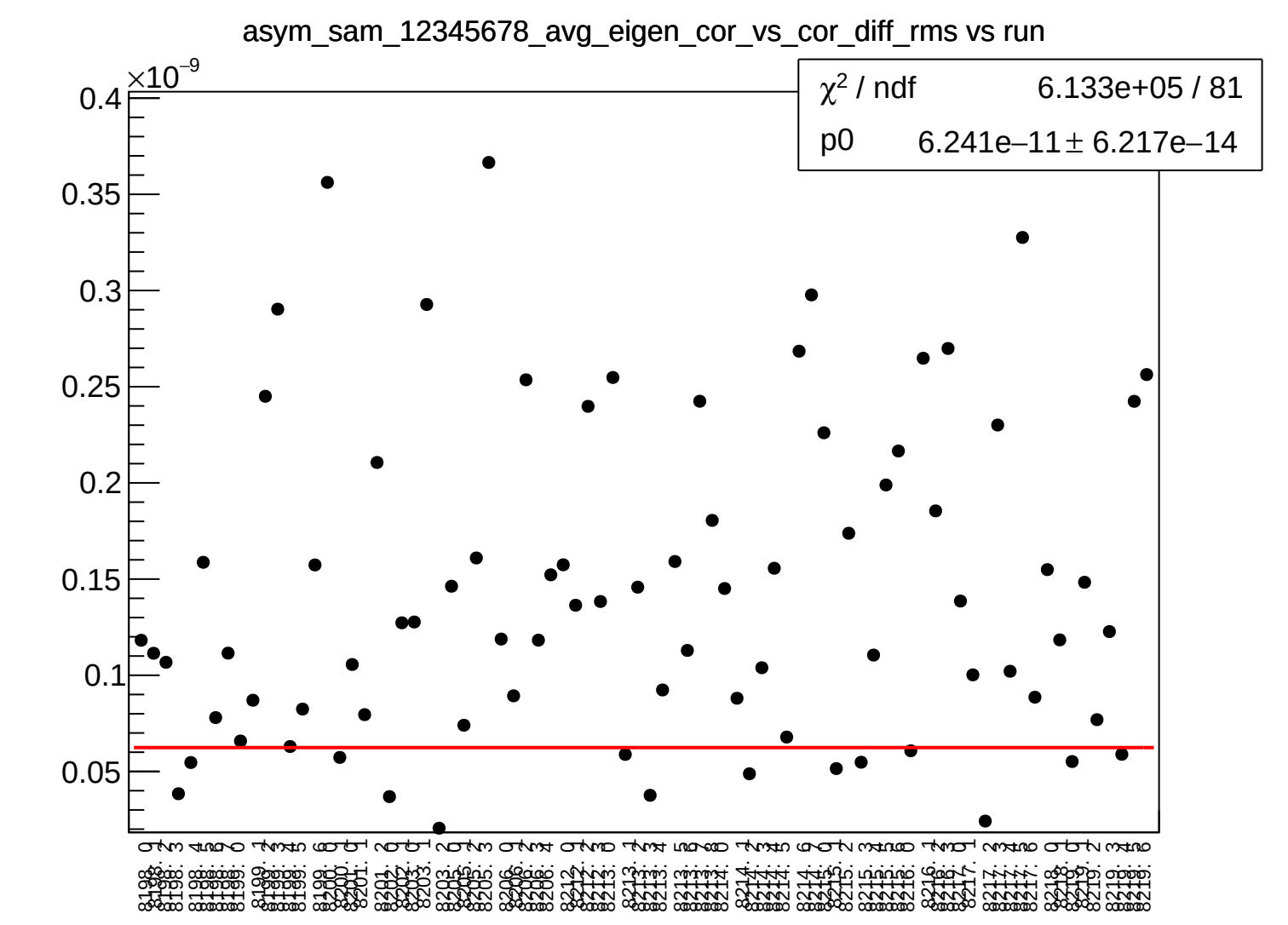

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.86 / 81
p0 −0.01364 ± 0.05474
pull
Entries 82
Mean 19.77
Std Dev 0

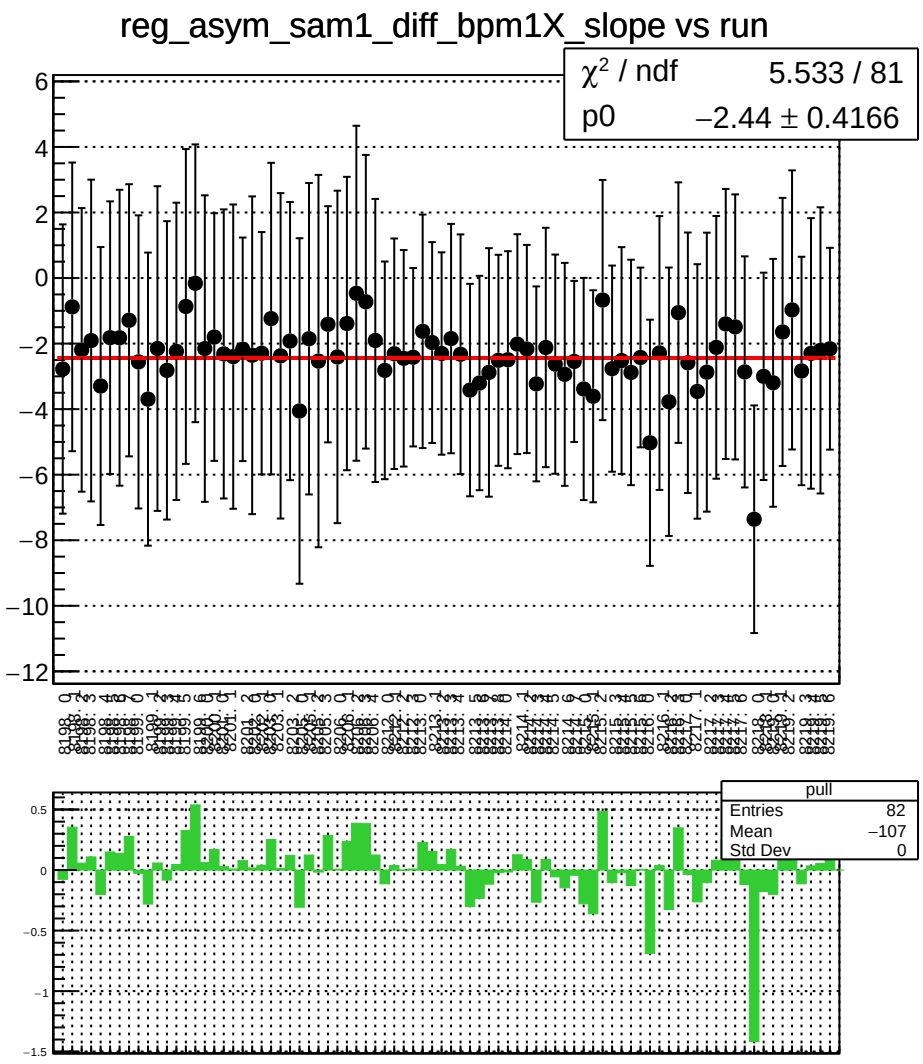

pull1D
Entries 82
Mean 0.01093
Std Dev 0.9806

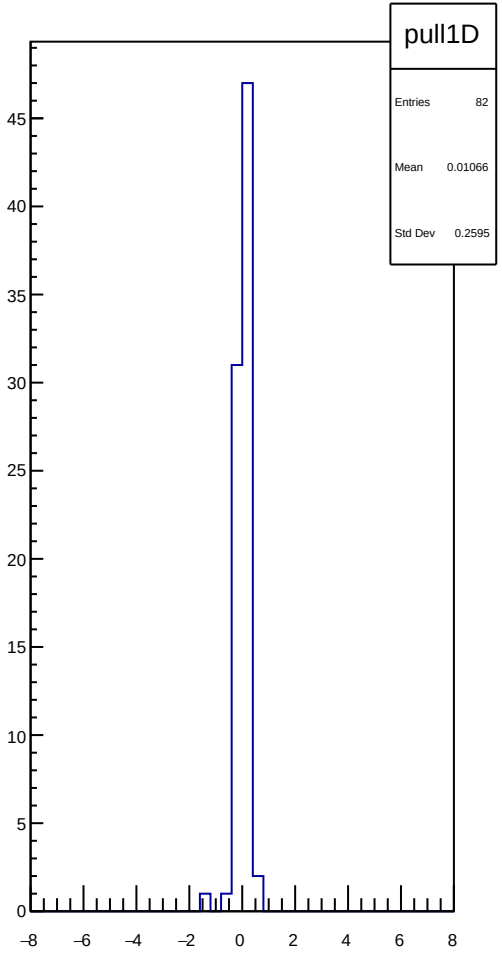

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.627e+05 / 81
p0 46.75 ± 0.03871
110
100
90
80
70
60
50
40
30
20

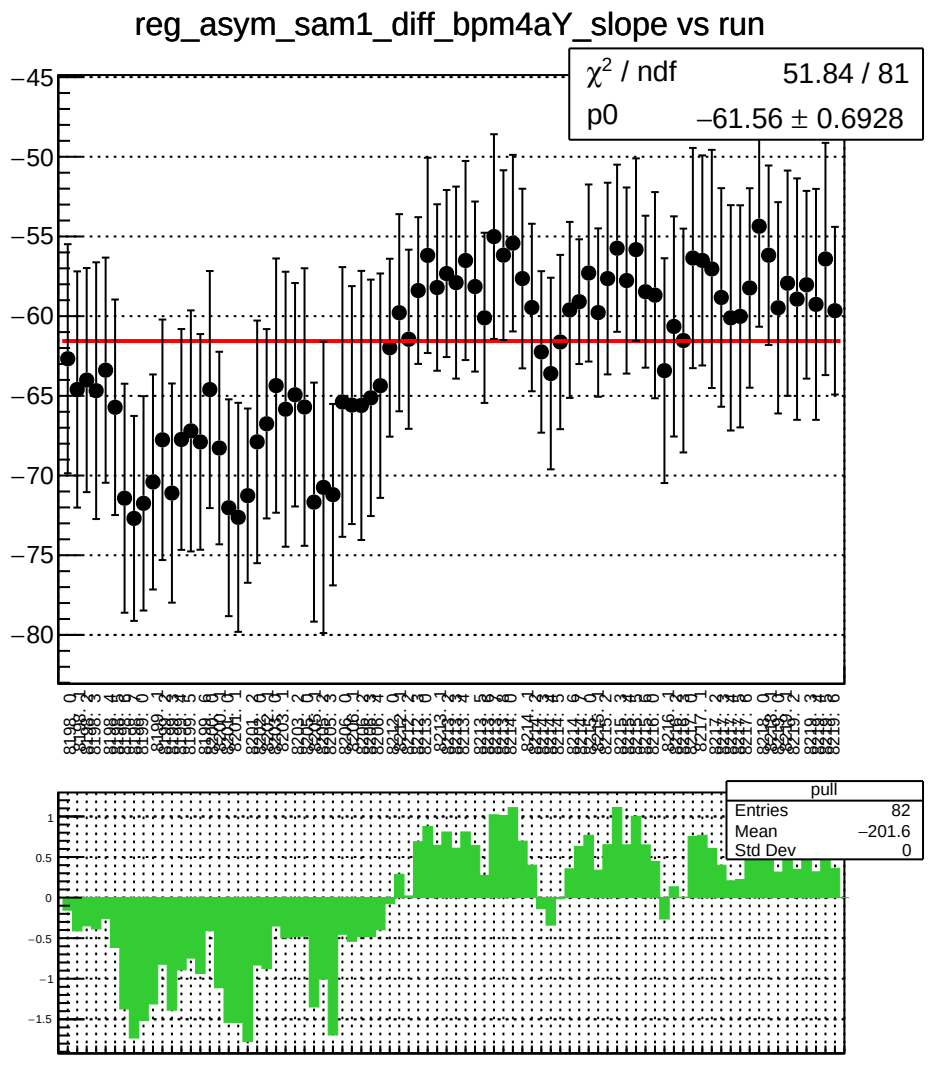

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.04 / 81
p0 −1.868e−14 ± 8.792e−14
pull
Entries 82
Mean 39.96
Std Dev 43.75

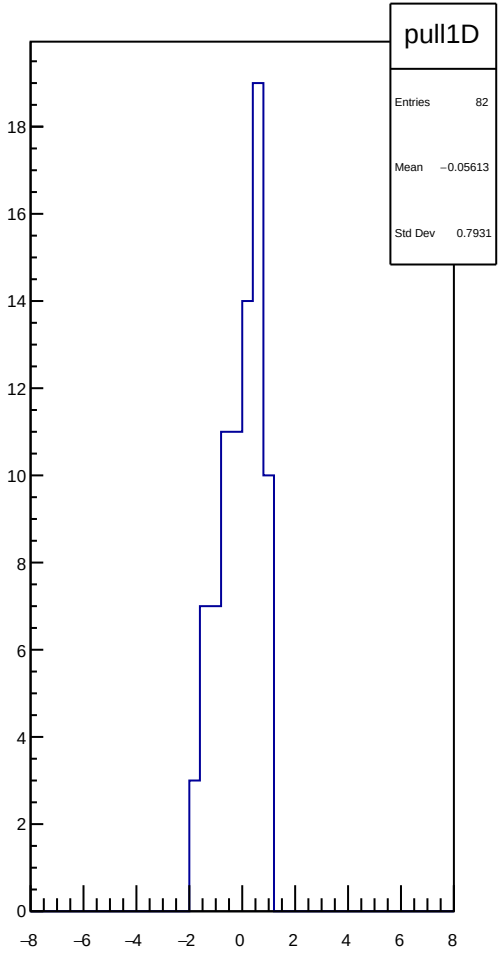

pull1D
Entries 82
Mean −0.03108
Std Dev 1.036

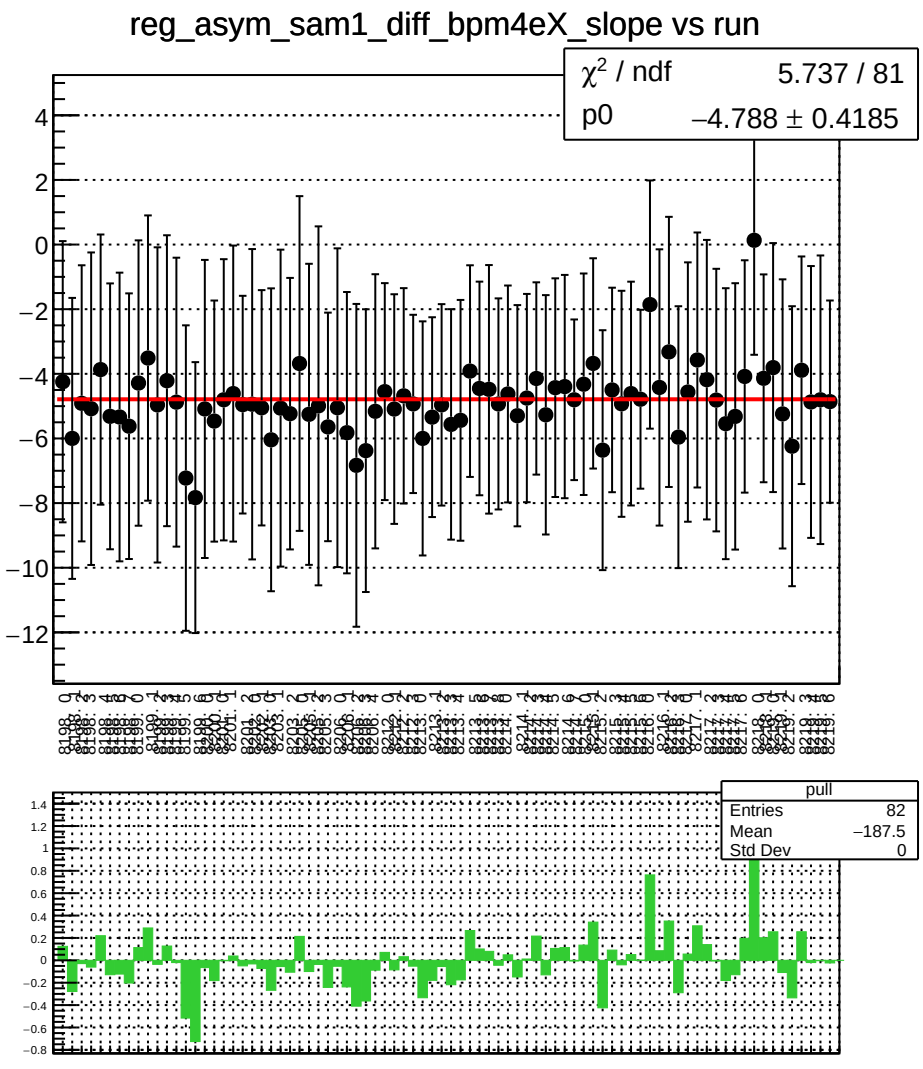

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.133e+05 / 81
p0 6.241e−11 ± 6.217e−14

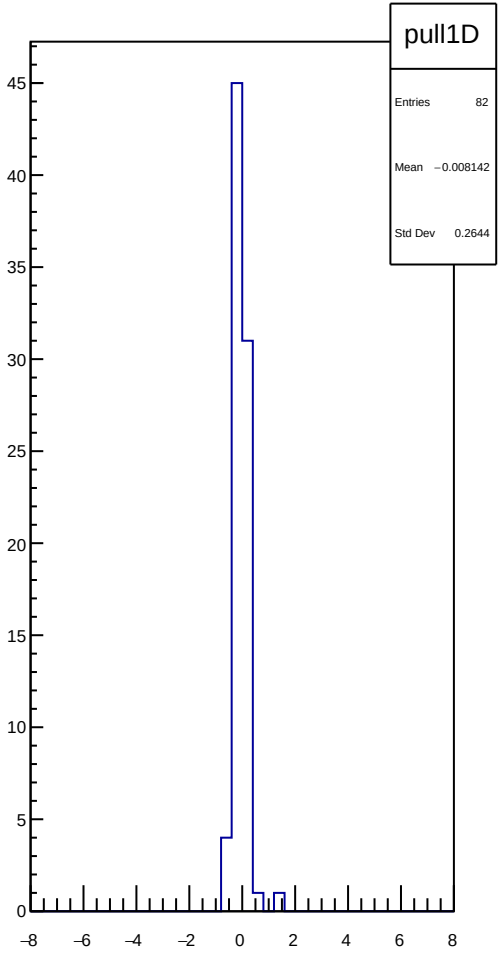

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 5.533 / 81
p0 −2.44 ± 0.4166
pull
Entries 82
Mean −107
Std Dev 0

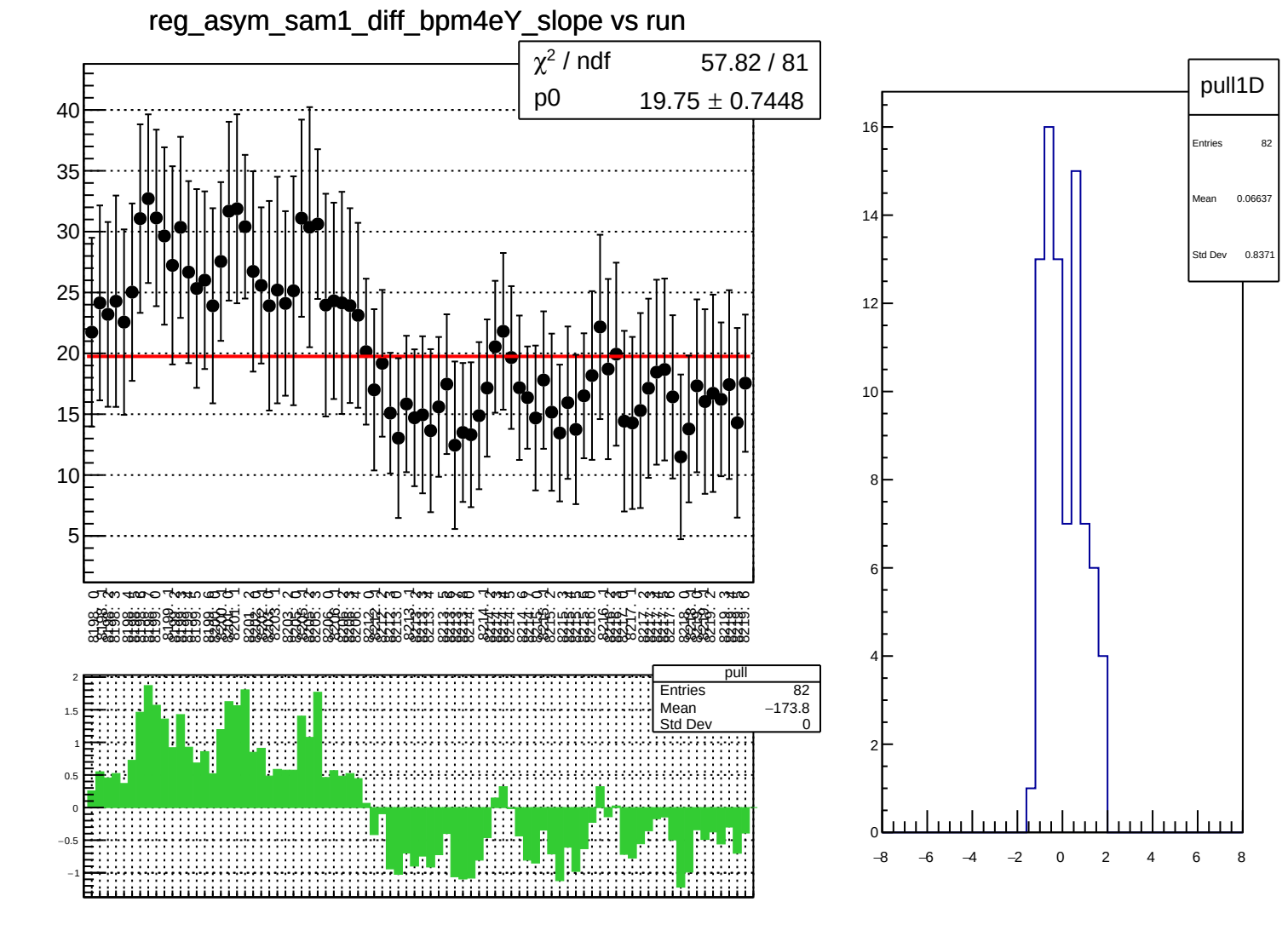

pull1D
Entries 82
Mean 0.01066
Std Dev 0.2595

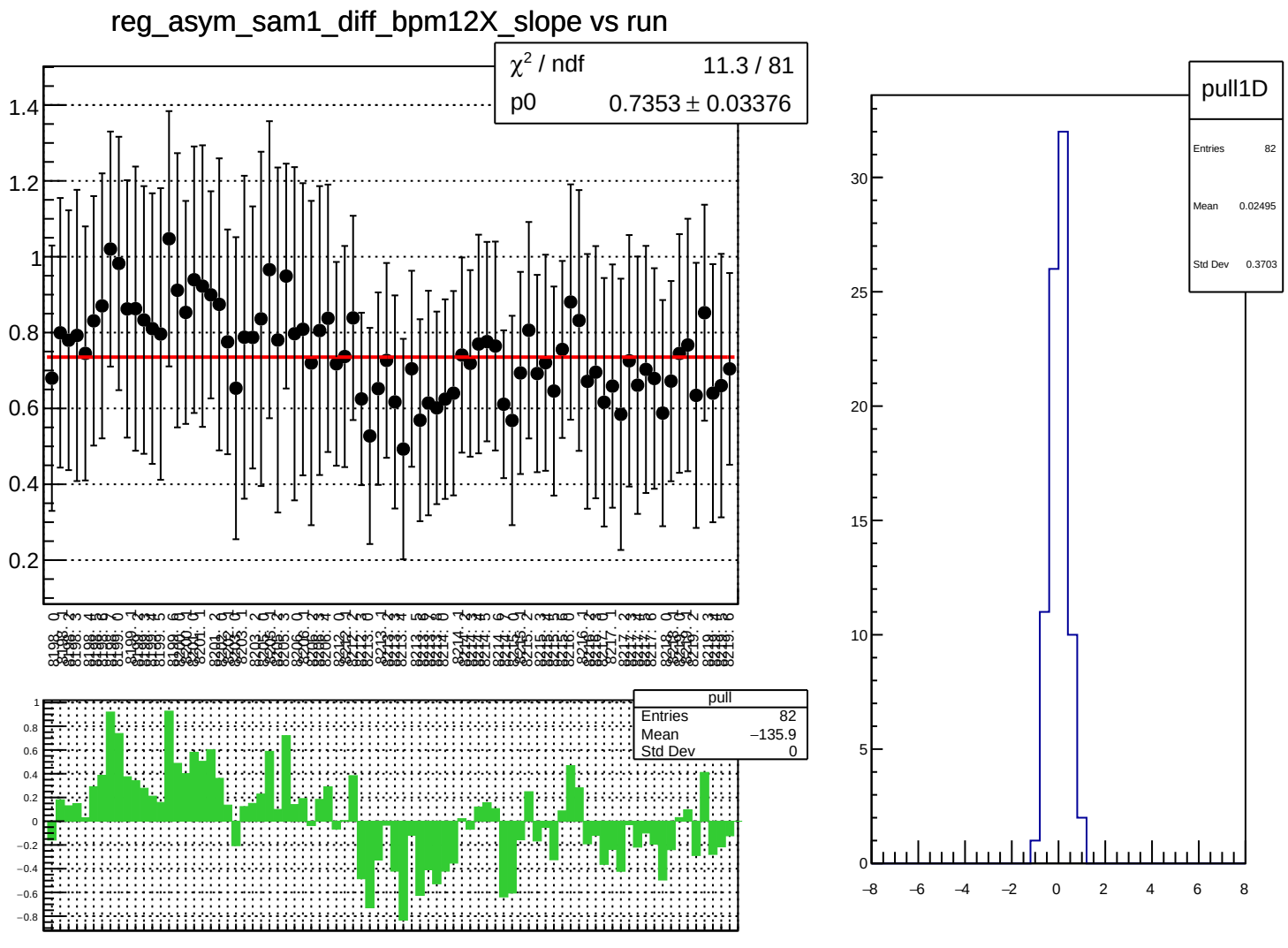

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 51.84 / 81
p0 −61.56 ± 0.6928
pull
Entries 82
Mean −201.6
Std Dev 0

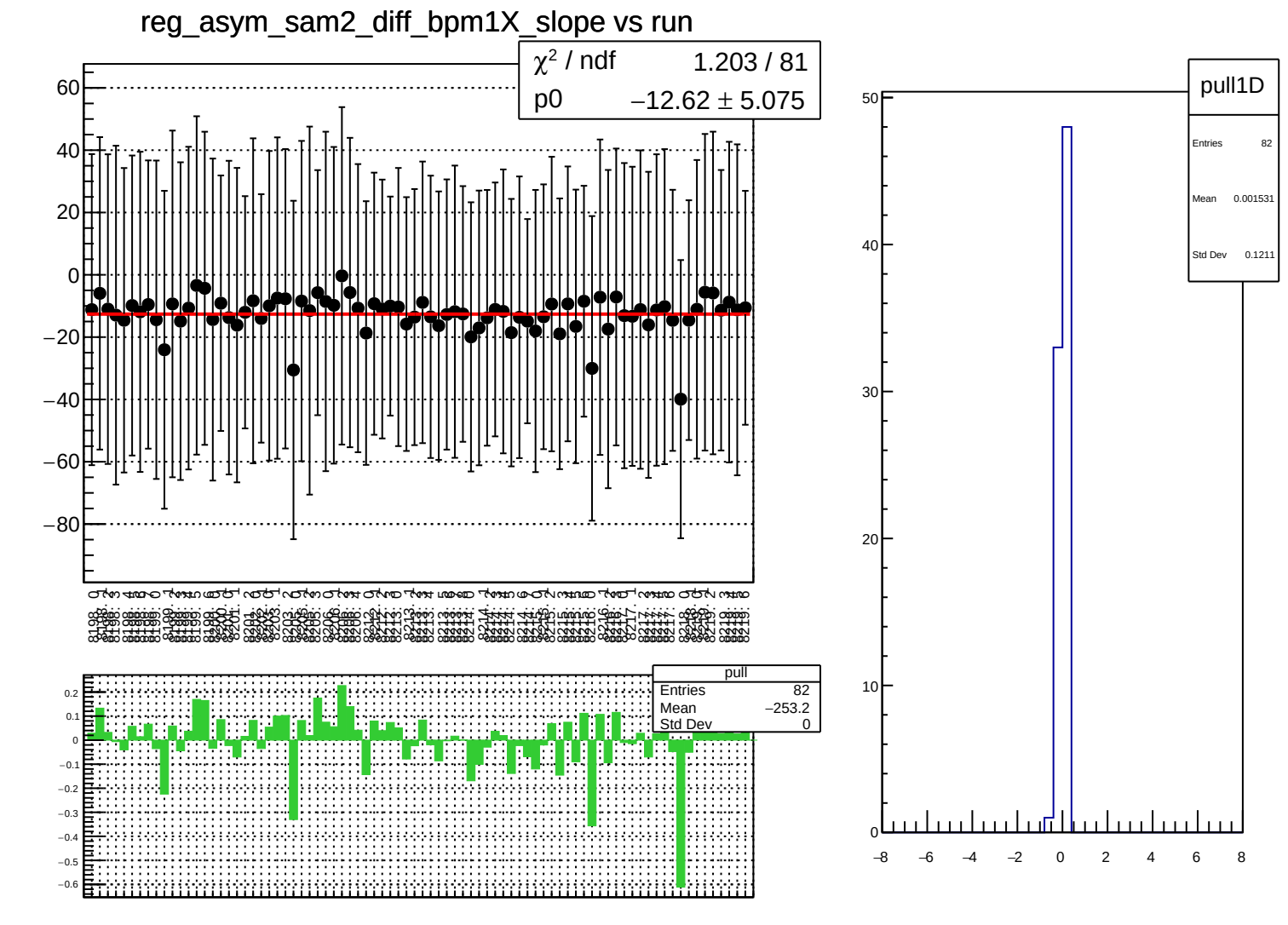

pull1D
Entries 82
Mean −0.05613
Std Dev 0.7931

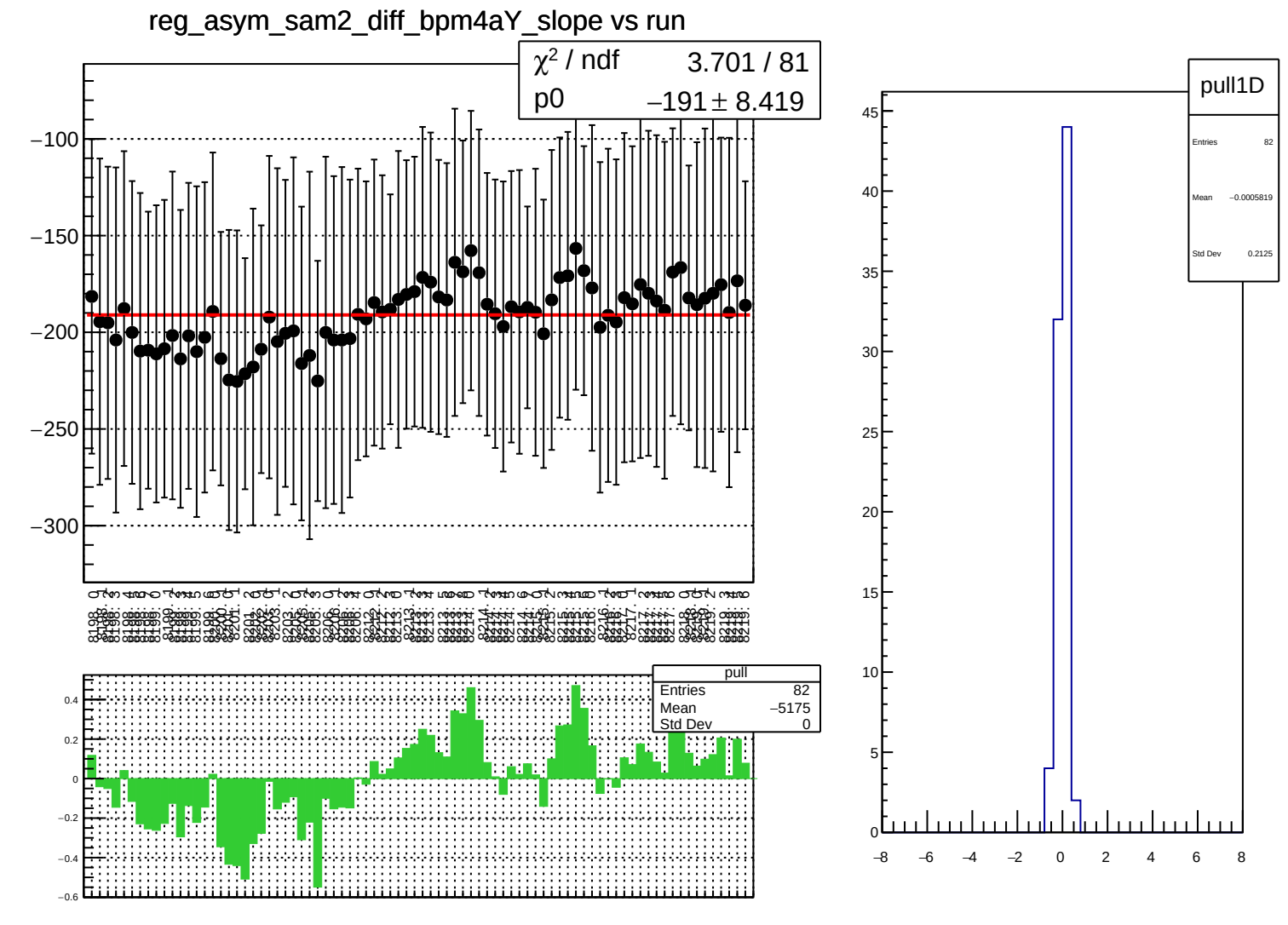

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 5.737 / 81
p0 −4.788 ± 0.4185
pull
Entries 82
Mean −187.5
Std Dev 0

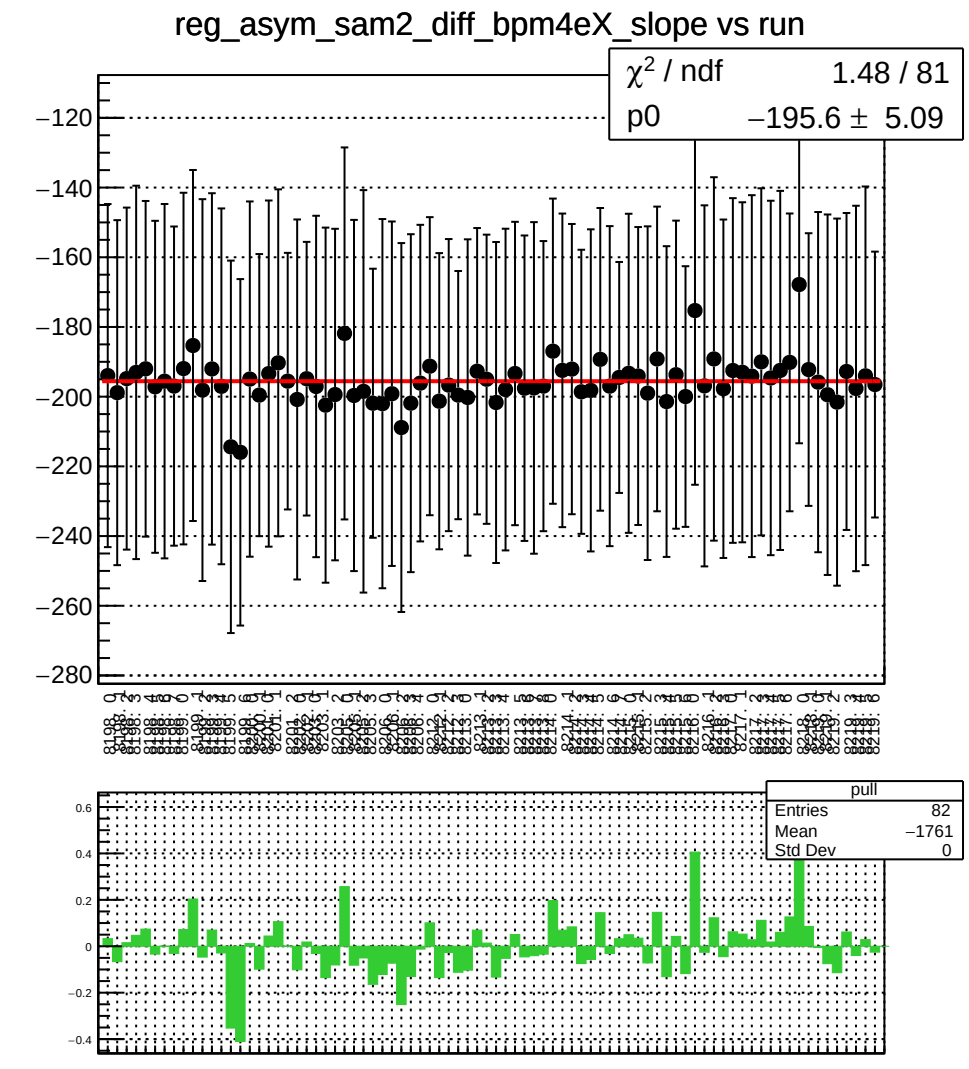

pull1D
Entries 82
Mean −0.008142
Std Dev 0.2644

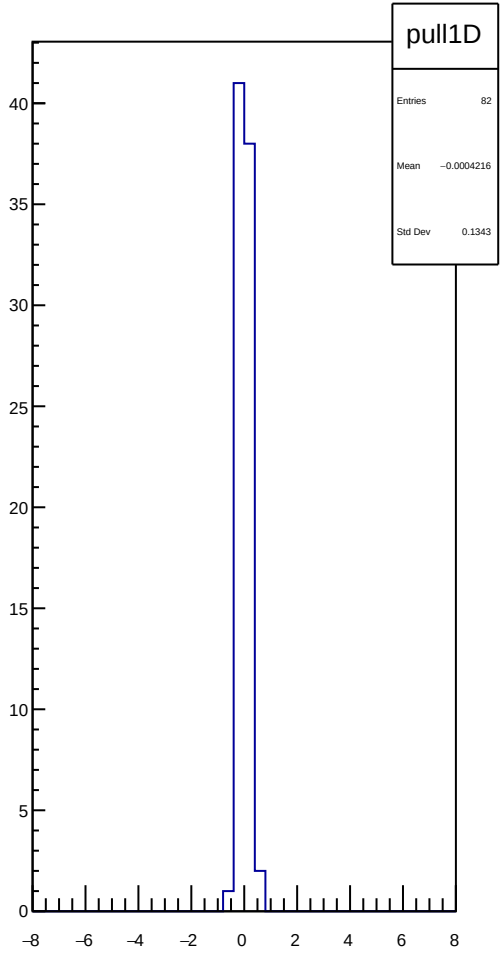

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 57.82 / 81
p0 19.75 ± 0.7448
pull
Entries 82
Mean −173.8
Std Dev 0
pull1D
Entries 82
Mean 0.06637
Std Dev 0.8371

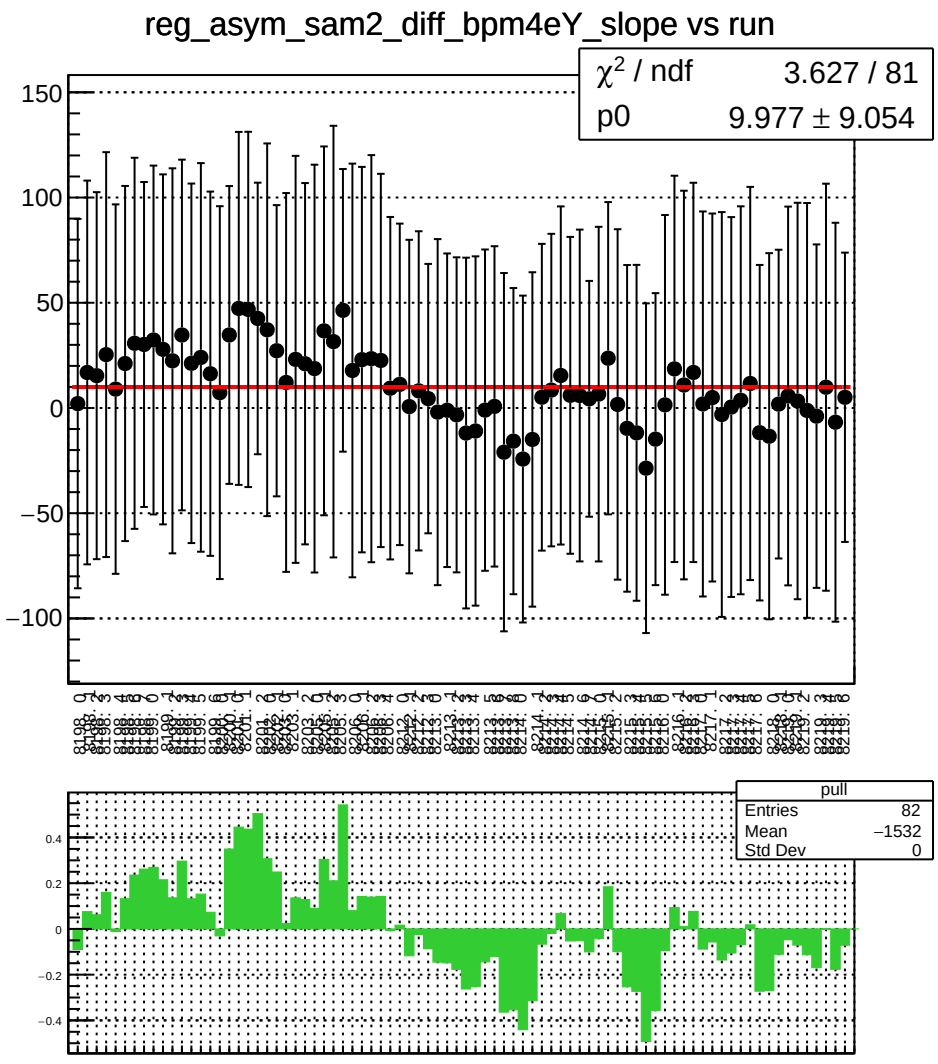

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 11.3 / 81
p0 0.7353 ± 0.03376
pull
Entries 82
Mean −135.9
Std Dev 0
pull1D
Entries 82
Mean 0.02495
Std Dev 0.3703

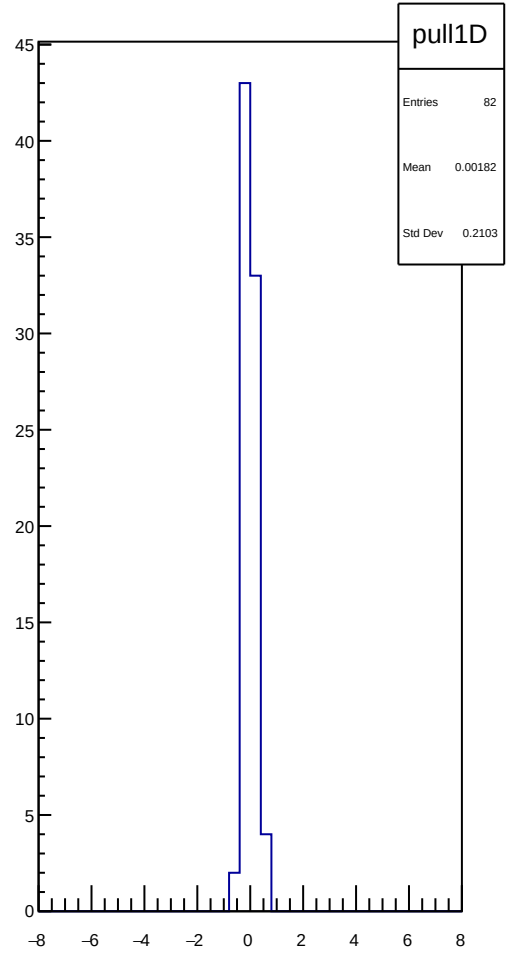

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 1.203 / 81
p0 −12.62 ± 5.075
pull
Entries 82
Mean −253.2
Std Dev 0
pull1D
Entries 82
Mean 0.001531
Std Dev 0.1211

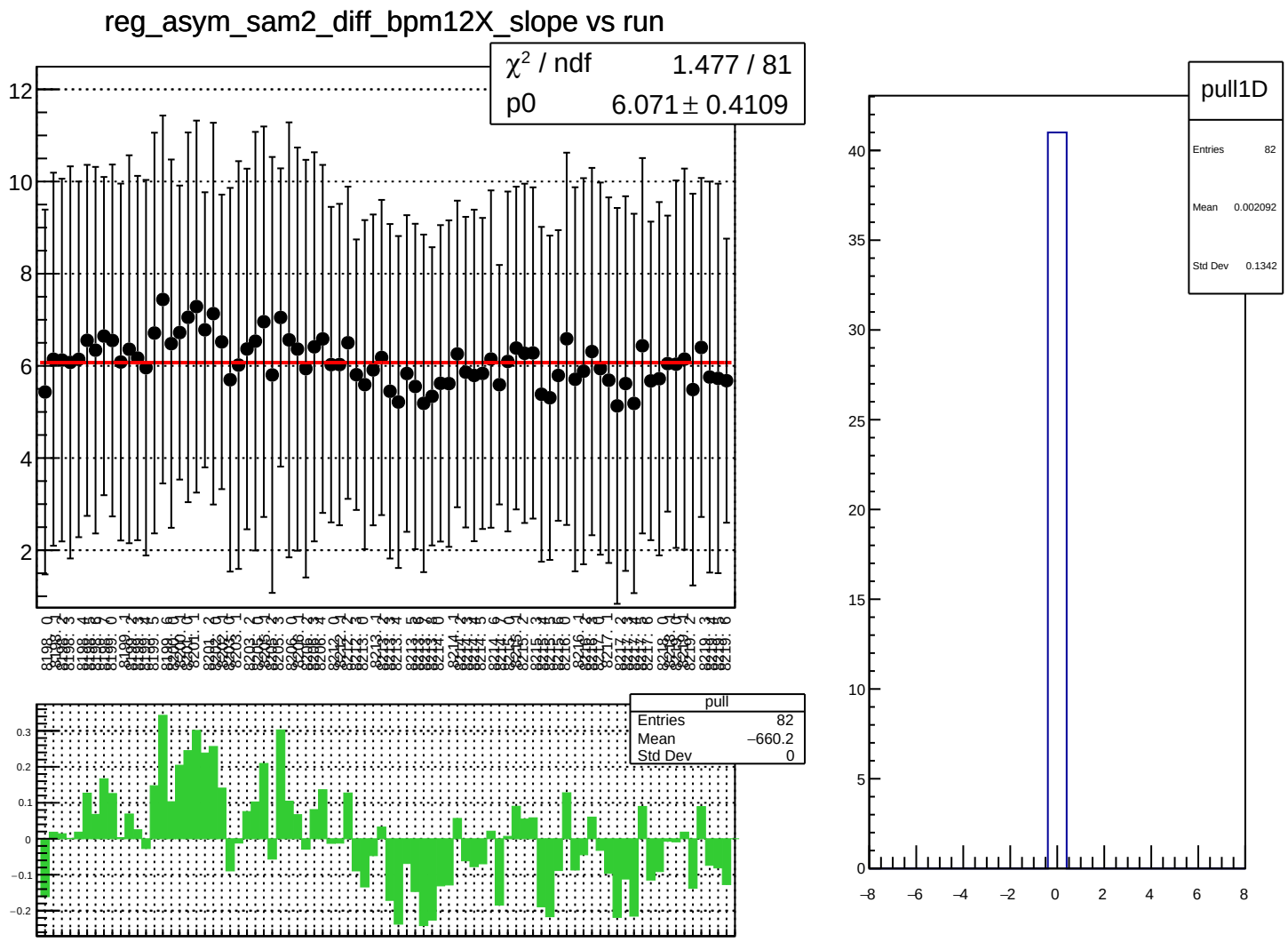

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 3.701 / 81
p0 −191 ± 8.419
−100
−150
−200
−250
−300
pull
Entries 82
Mean −5175
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean −0.0005819
Std Dev 0.2125
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

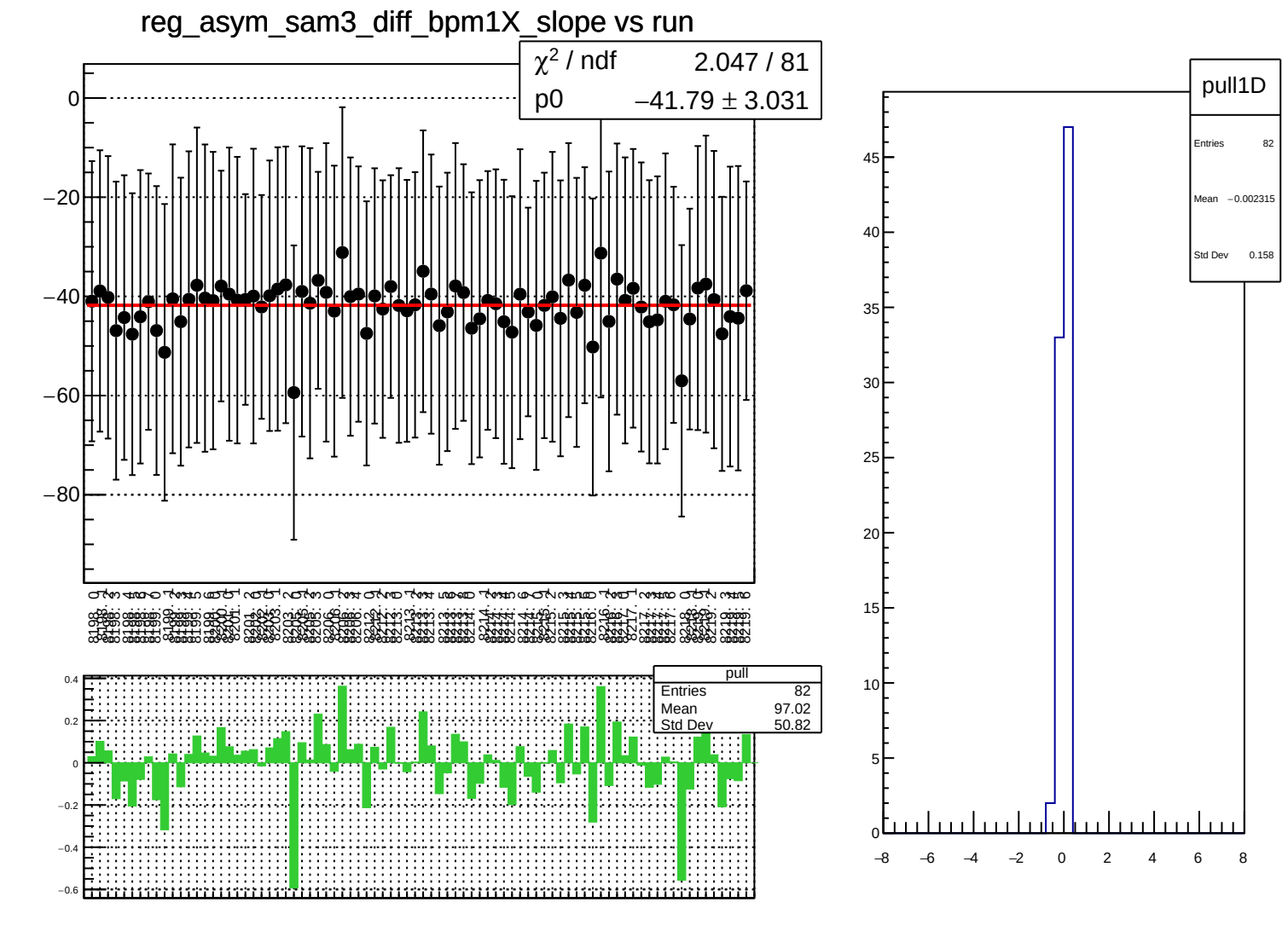

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 1.48 / 81
p0 −195.6 ± 5.09
pull
Entries 82
Mean −1761
Std Dev 0

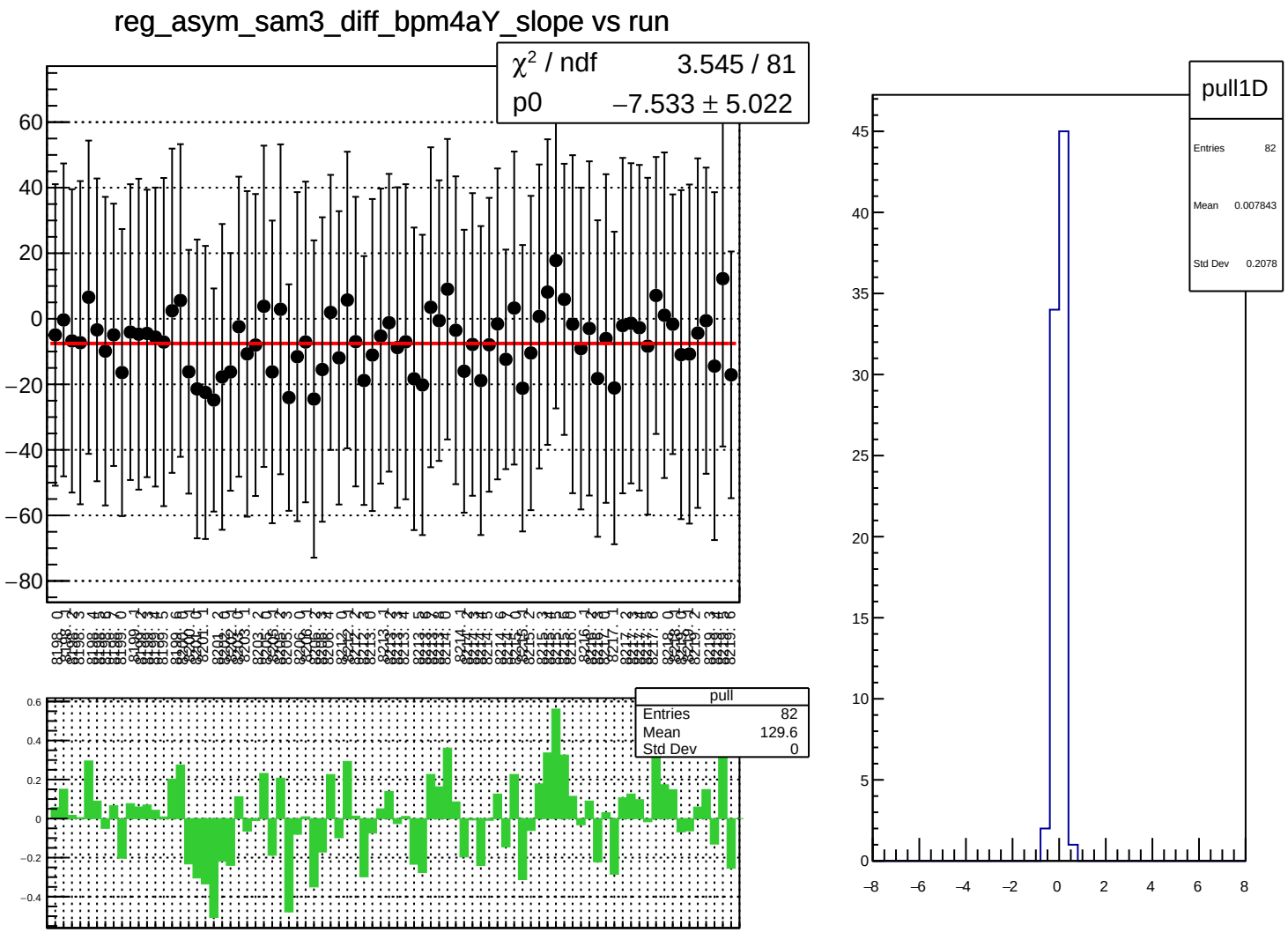

pull1D
Entries 82
Mean −0.0004216
Std Dev 0.1343

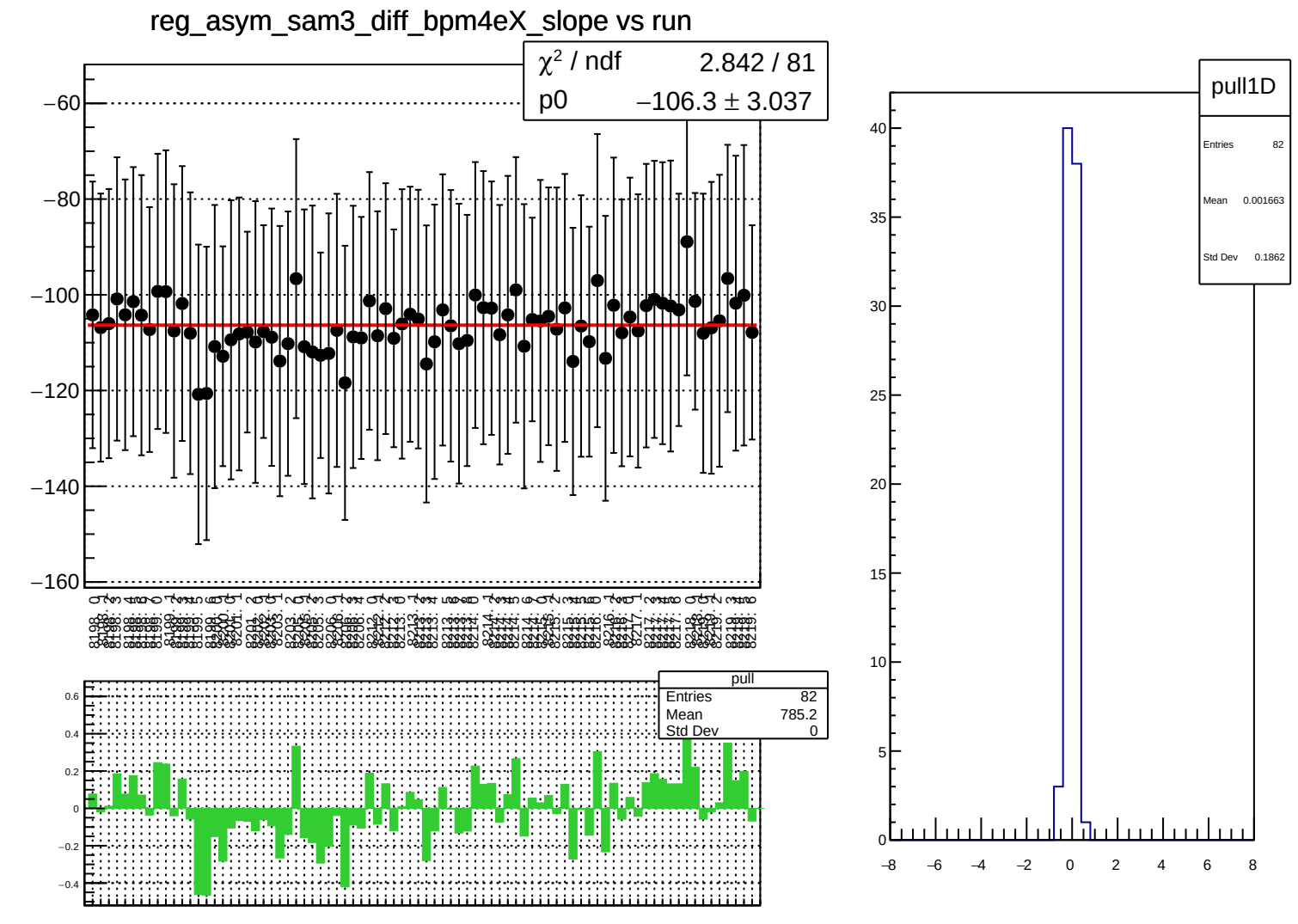

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 3.627 / 81
p0 9.977 ± 9.054
150
100
50
0
−50
−100
pull
Entries 82
Mean −1532
Std Dev 0
0.4
0.2
0
−0.2
−0.4

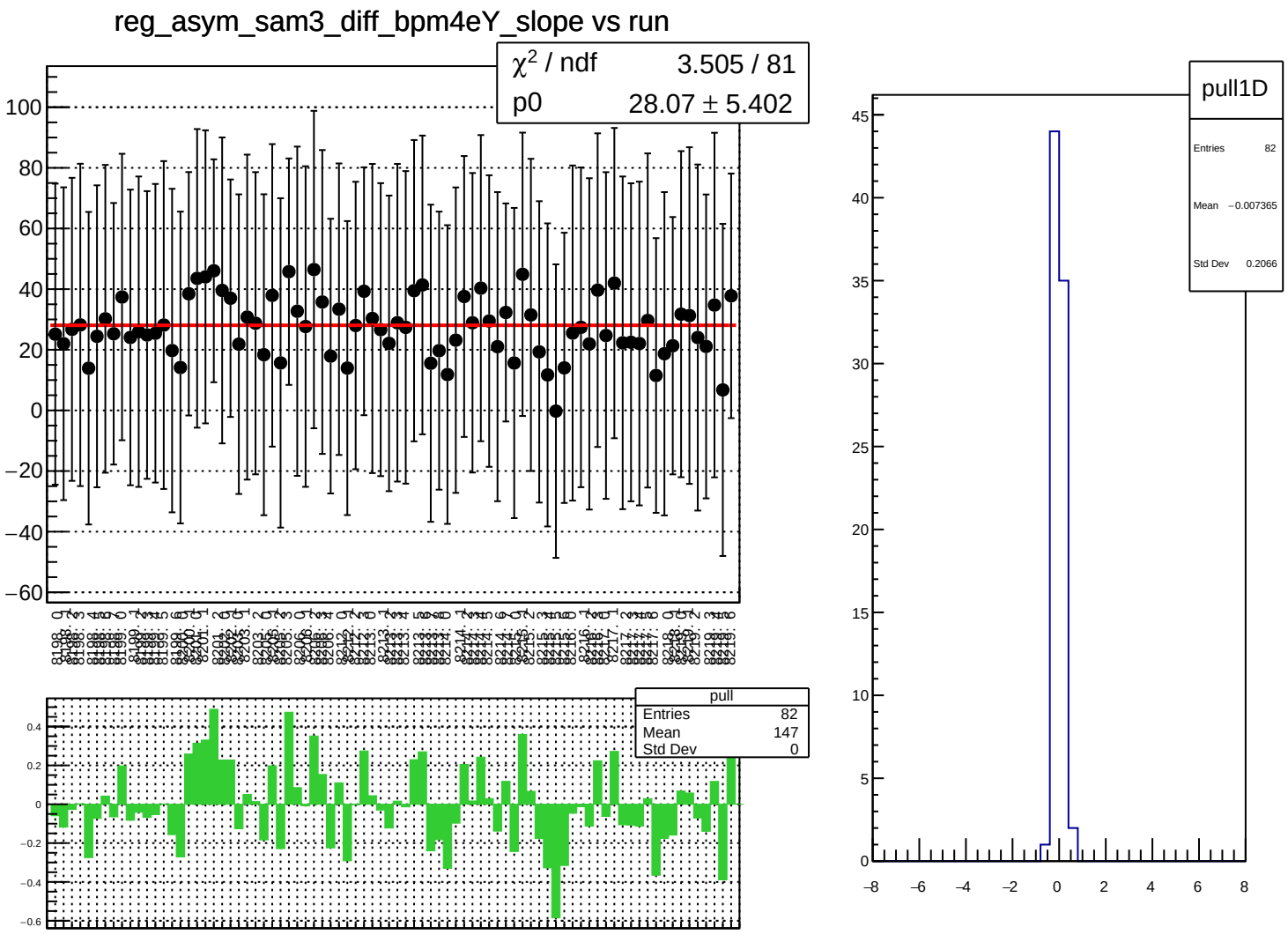

pull1D
Entries 82
Mean 0.00182
Std Dev 0.2103
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

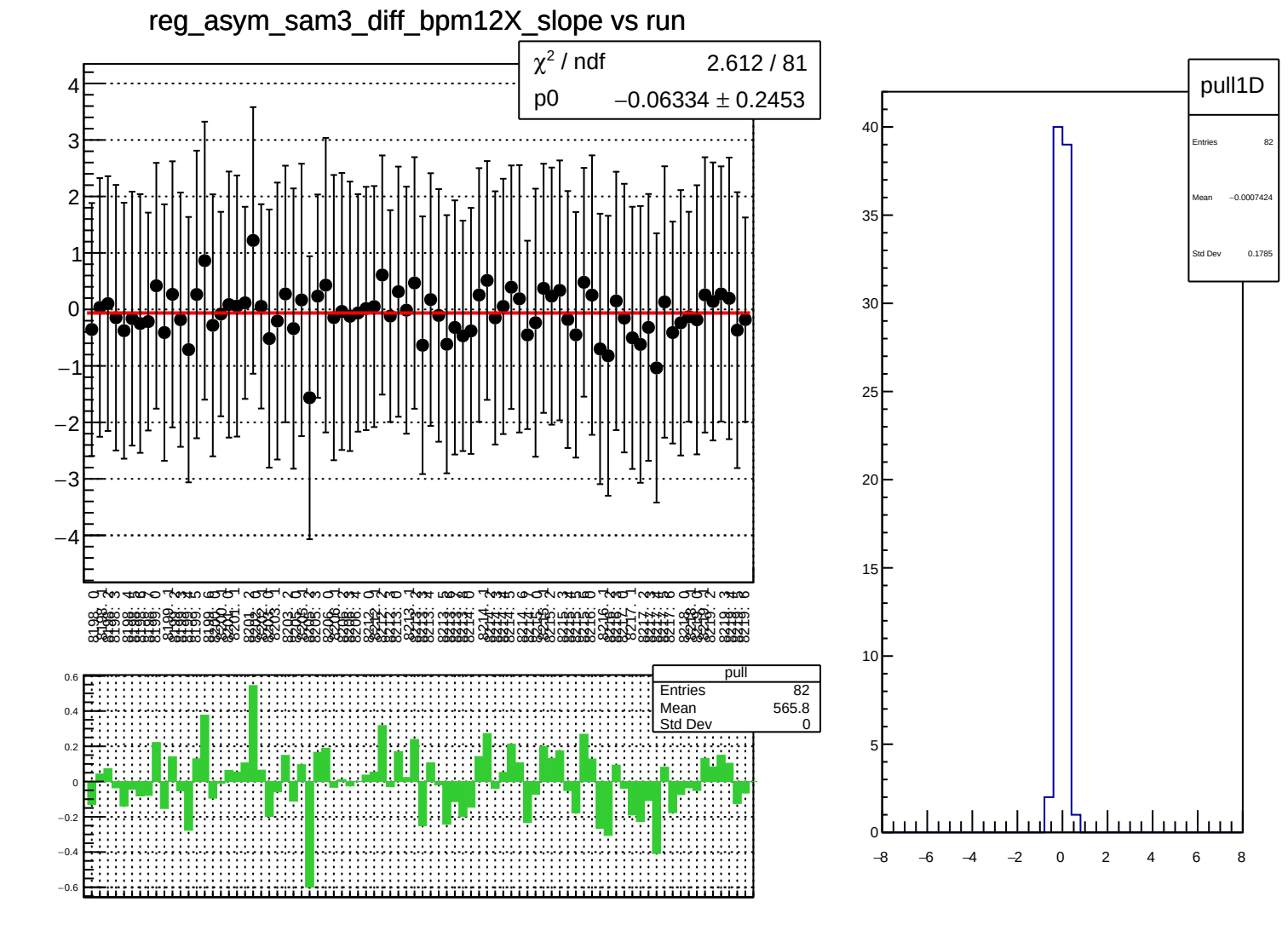

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.477 / 81
p0 6.071 ± 0.4109
pull
Entries 82
Mean −660.2
Std Dev 0
pull1D
Entries 82
Mean 0.002092
Std Dev 0.1342

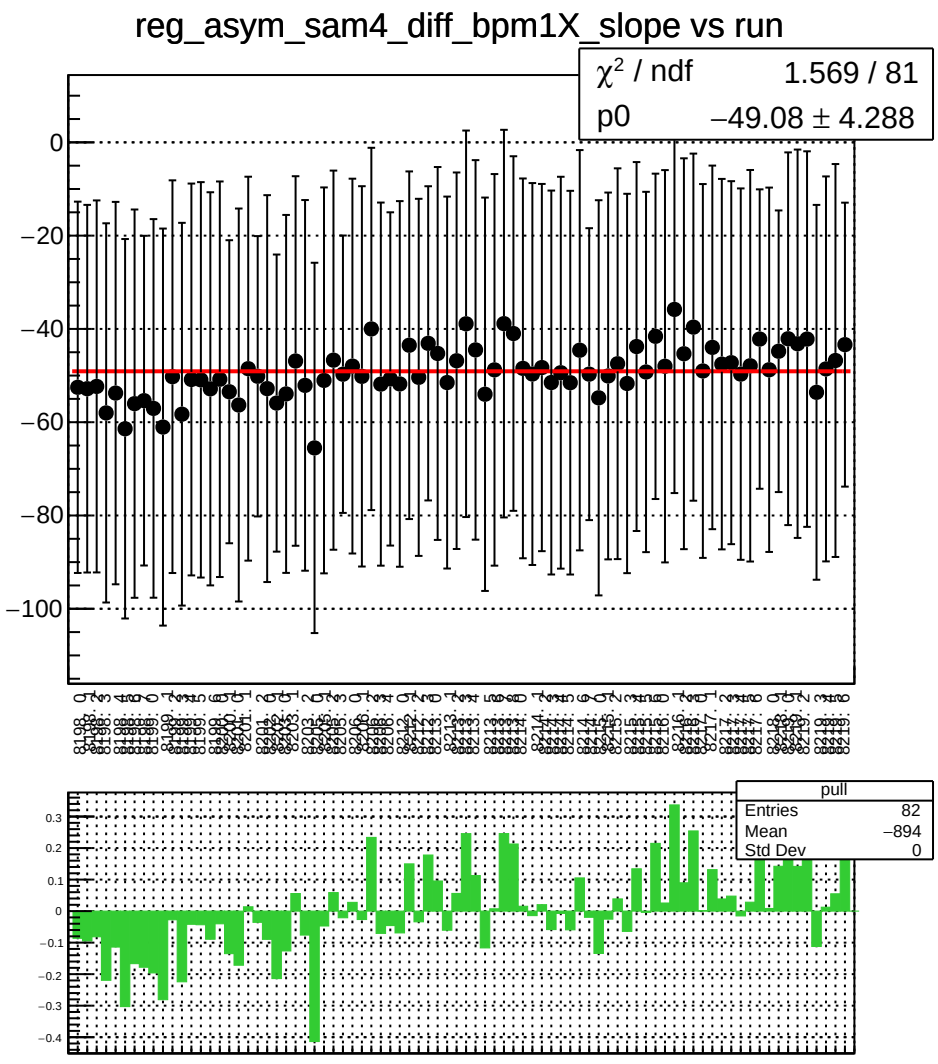

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 2.047 / 81
p0 −41.79 ± 3.031
pull
Entries 82
Mean 97.02
Std Dev 50.82
pull1D
Entries 82
Mean −0.002315
Std Dev 0.158

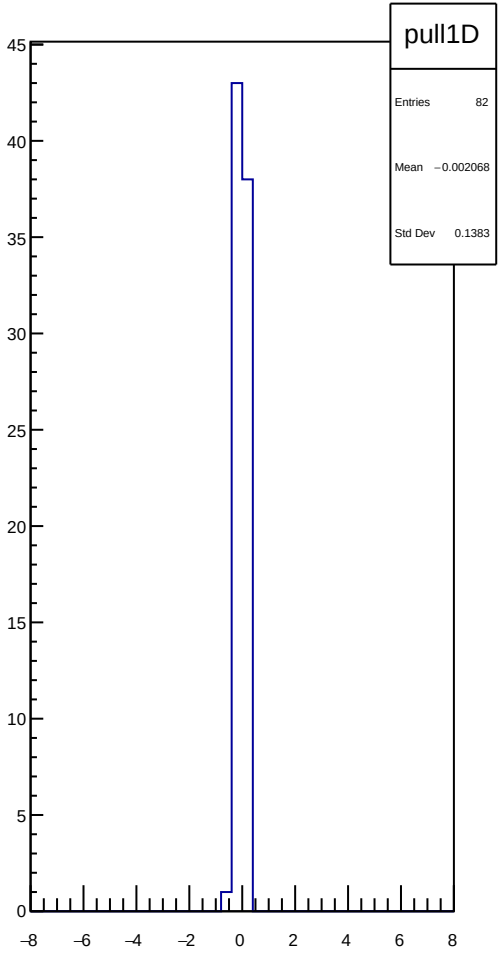

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 3.545 / 81
p0 −7.533 ± 5.022
pull
Entries 82
Mean 129.6
Std Dev 0
pull1D
Entries 82
Mean 0.007843
Std Dev 0.2078

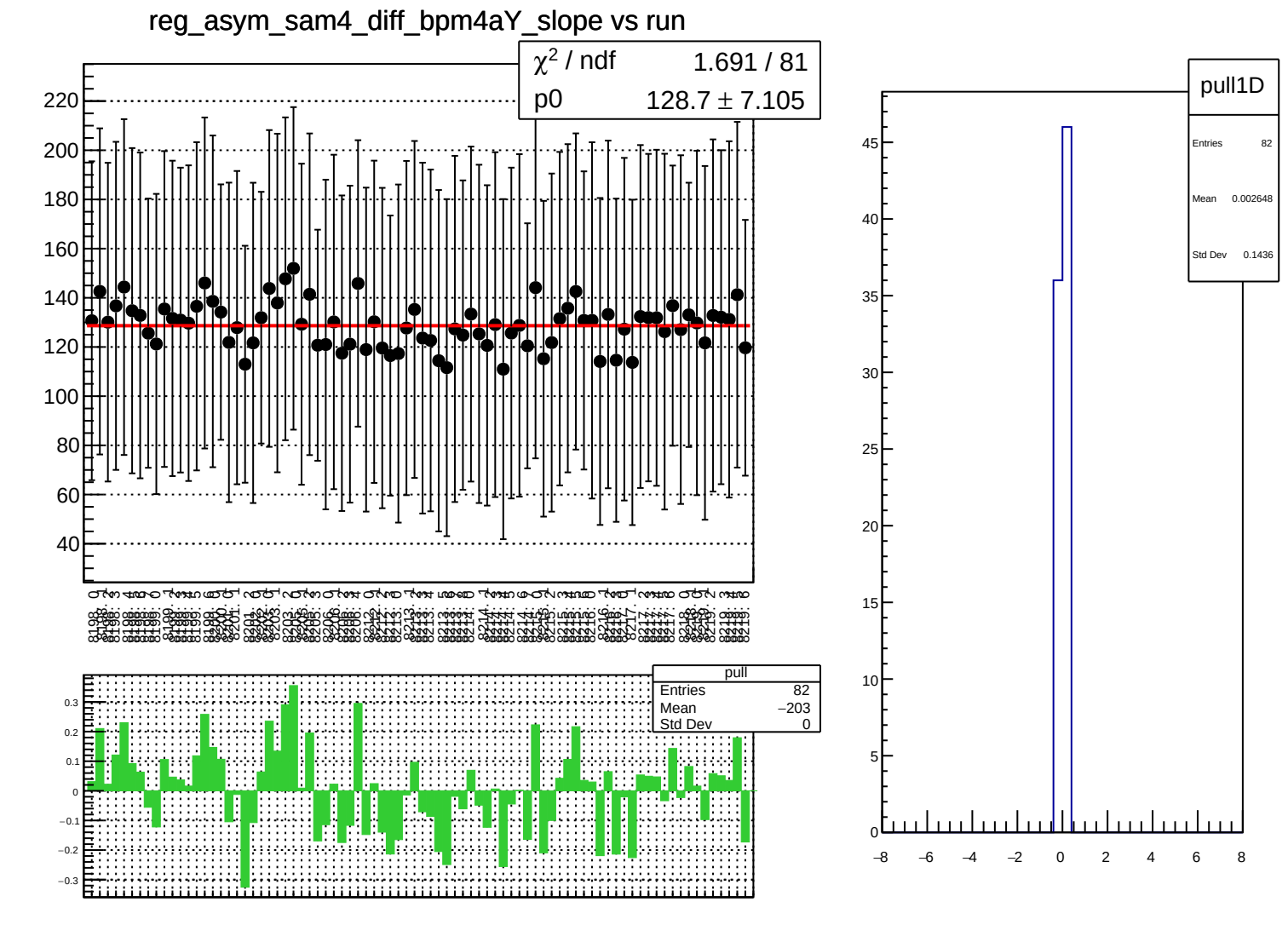

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.842 / 81
p0 −106.3 ± 3.037
pull
Entries 82
Mean 785.2
Std Dev 0
pull1D
Entries 82
Mean 0.001663
Std Dev 0.1862

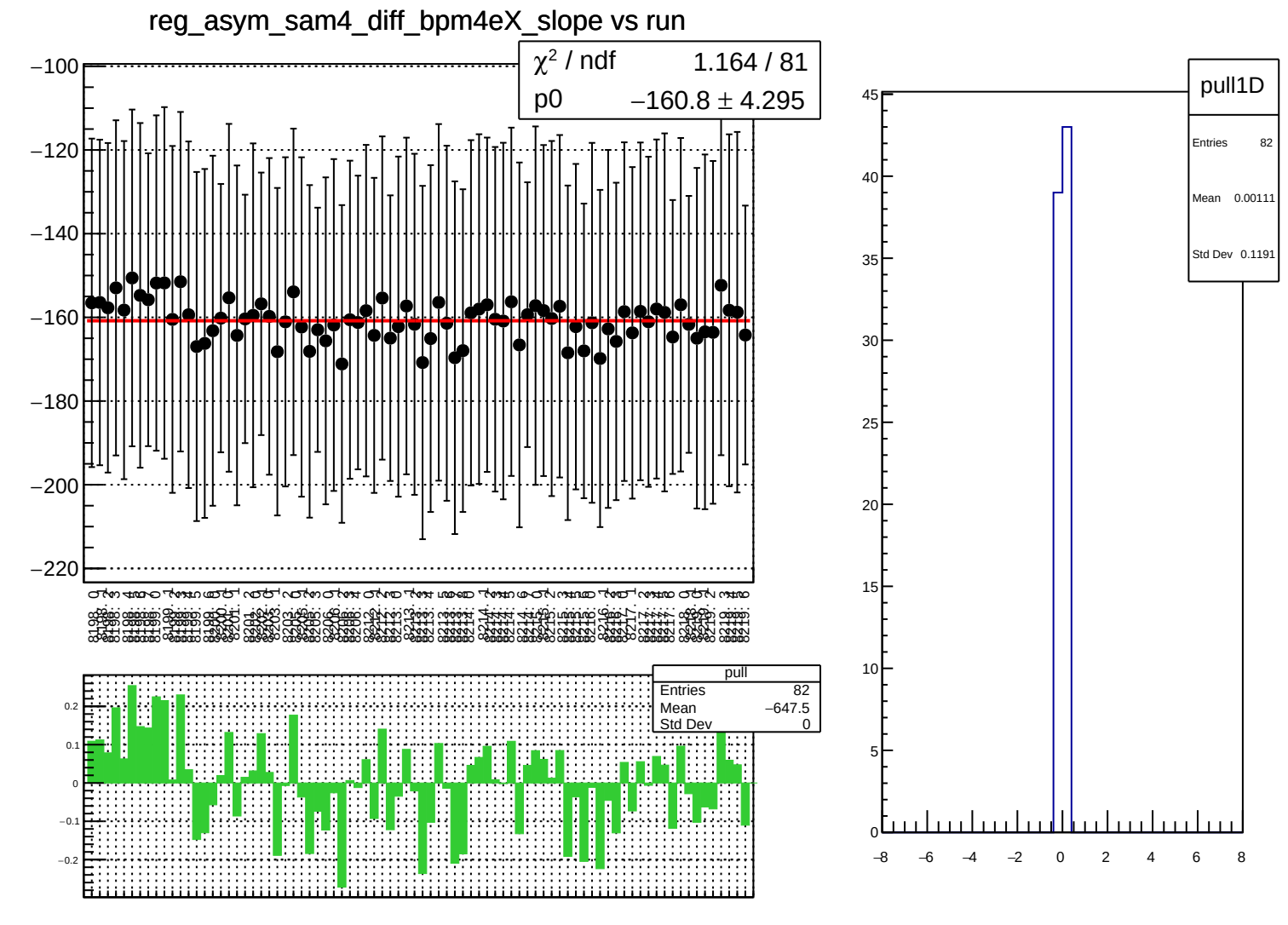

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 3.505 / 81
p0 28.07 ± 5.402
pull
Entries 82
Mean 147
Std Dev 0
pull1D
Entries 82
Mean −0.007365
Std Dev 0.2066

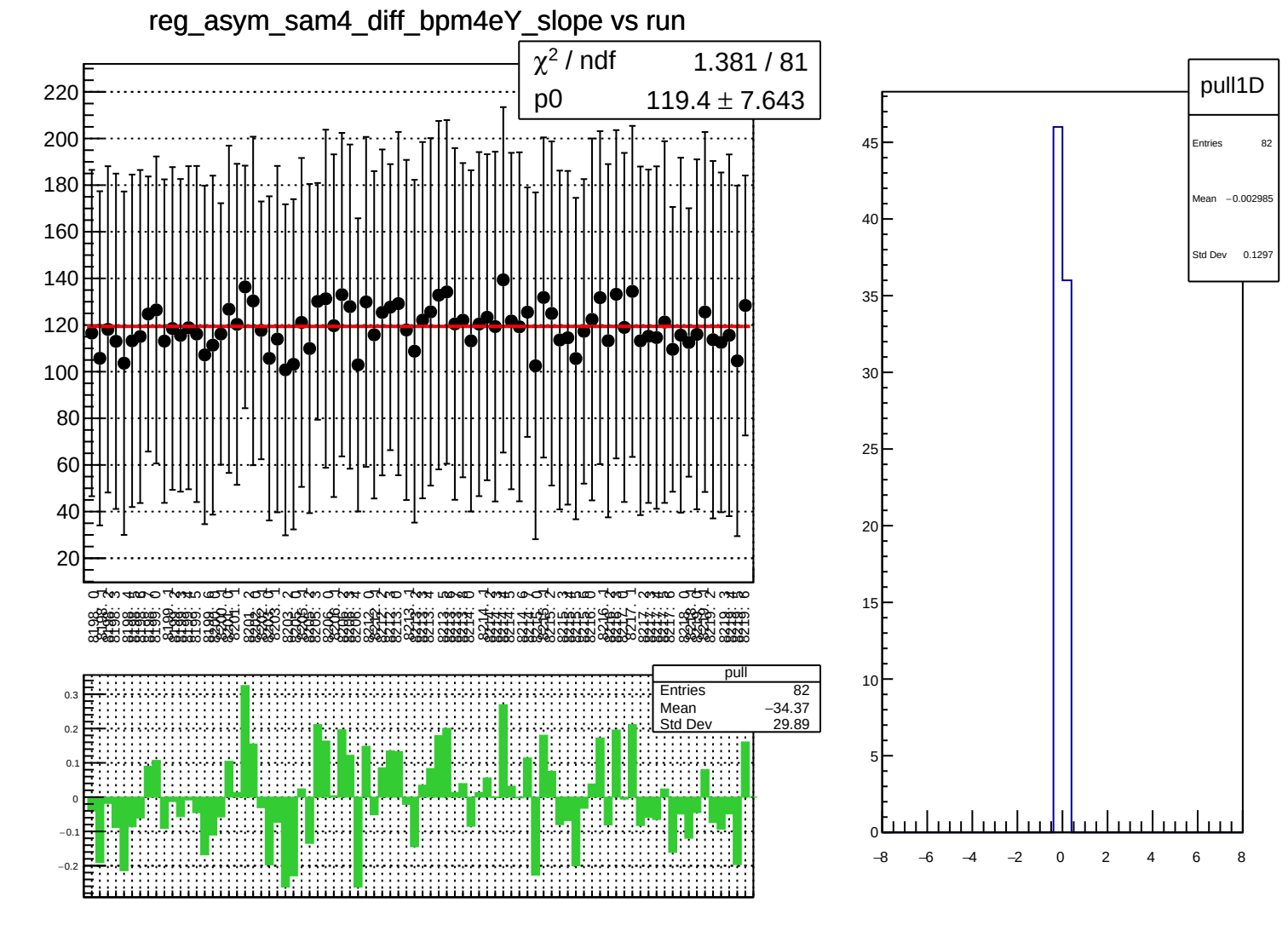

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.612 / 81
p0 −0.06334 ± 0.2453
pull
Entries 82
Mean 565.8
Std Dev 0
pull1D
Entries 82
Mean −0.0007424
Std Dev 0.1785

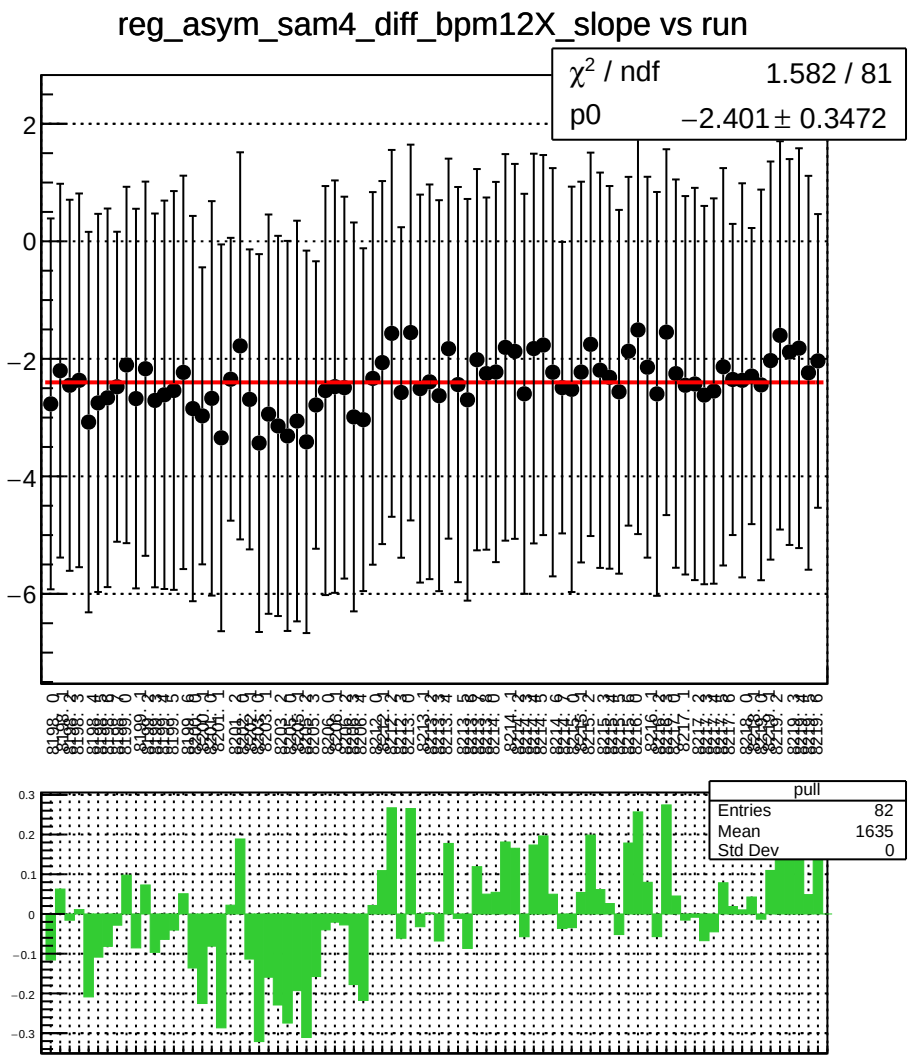

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 1.569 / 81
p0 −49.08 ± 4.288
pull
Entries 82
Mean −894
Std Dev 0

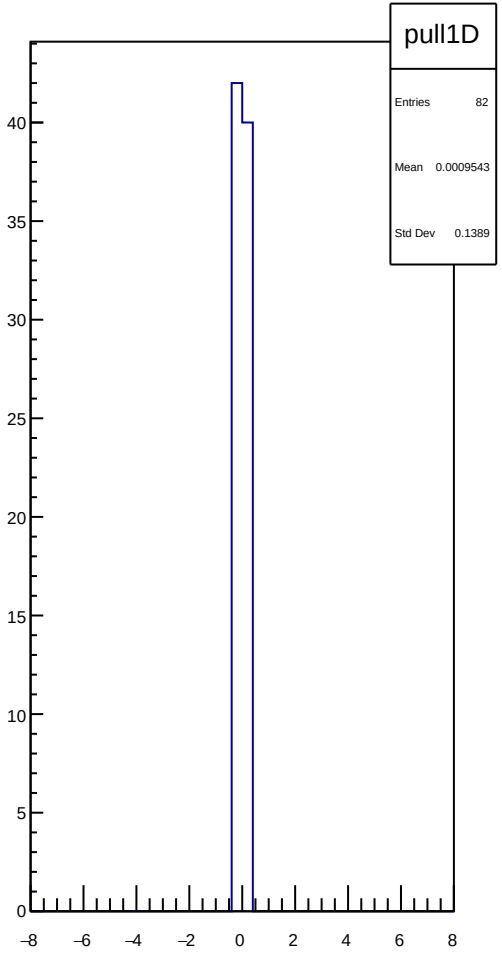

pull1D
Entries 82
Mean −0.002068
Std Dev 0.1383

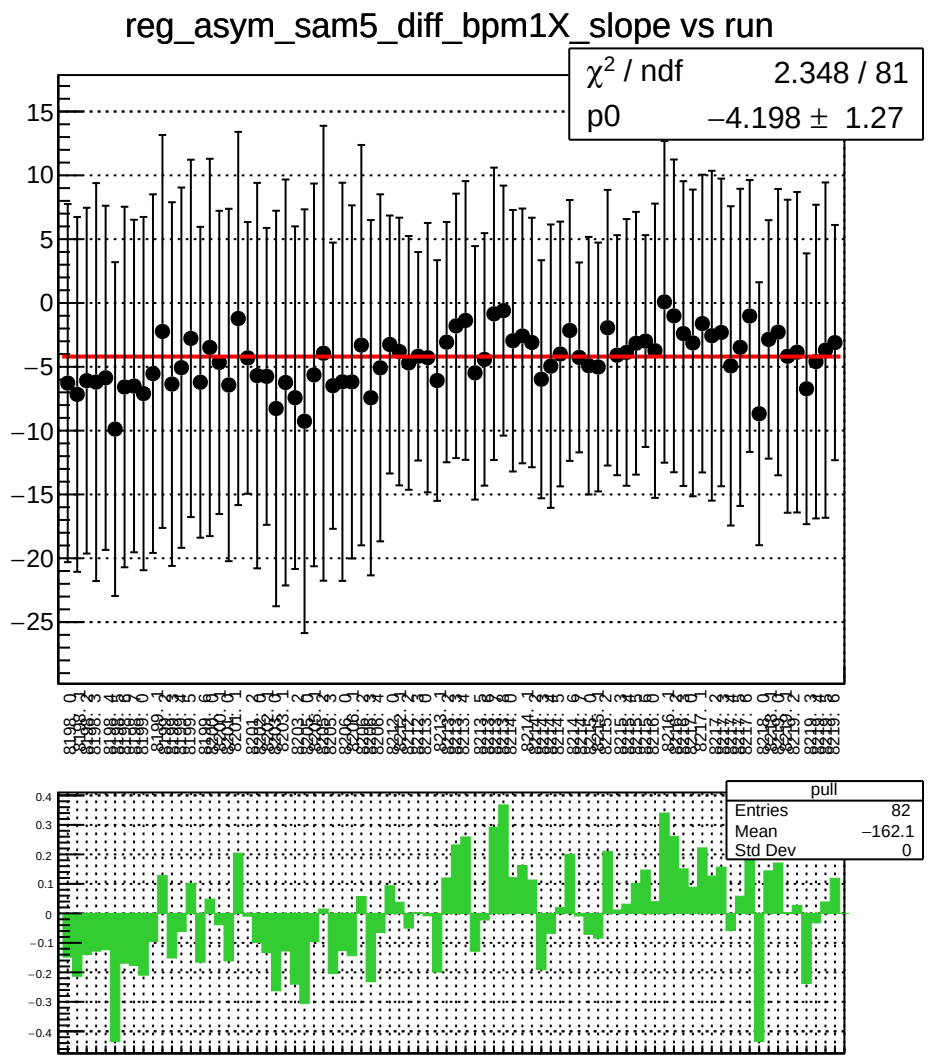

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.691 / 81
p0 128.7 ± 7.105
pull
Entries 82
Mean −203
Std Dev 0
pull1D
Entries 82
Mean 0.002648
Std Dev 0.1436

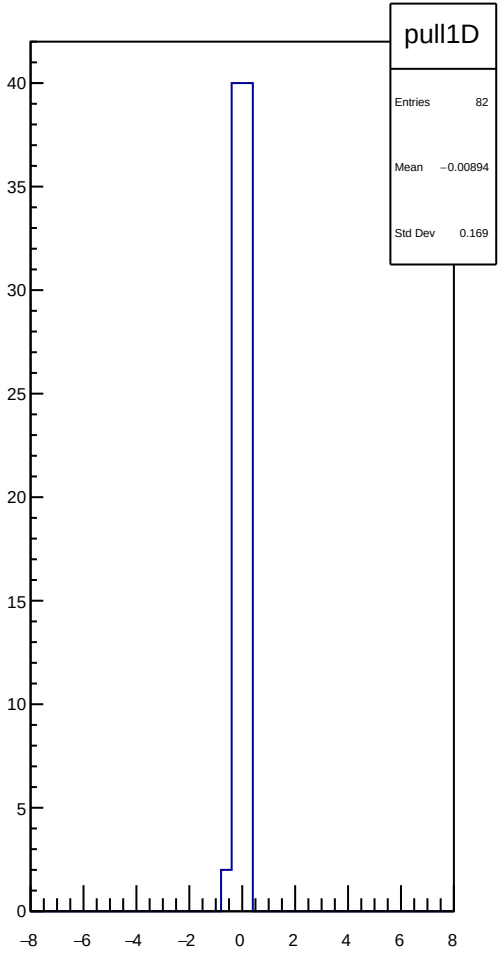

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 1.164 / 81
p0 −160.8 ± 4.295
pull
Entries 82
Mean −647.5
Std Dev 0
pull1D
Entries 82
Mean 0.00111
Std Dev 0.1191

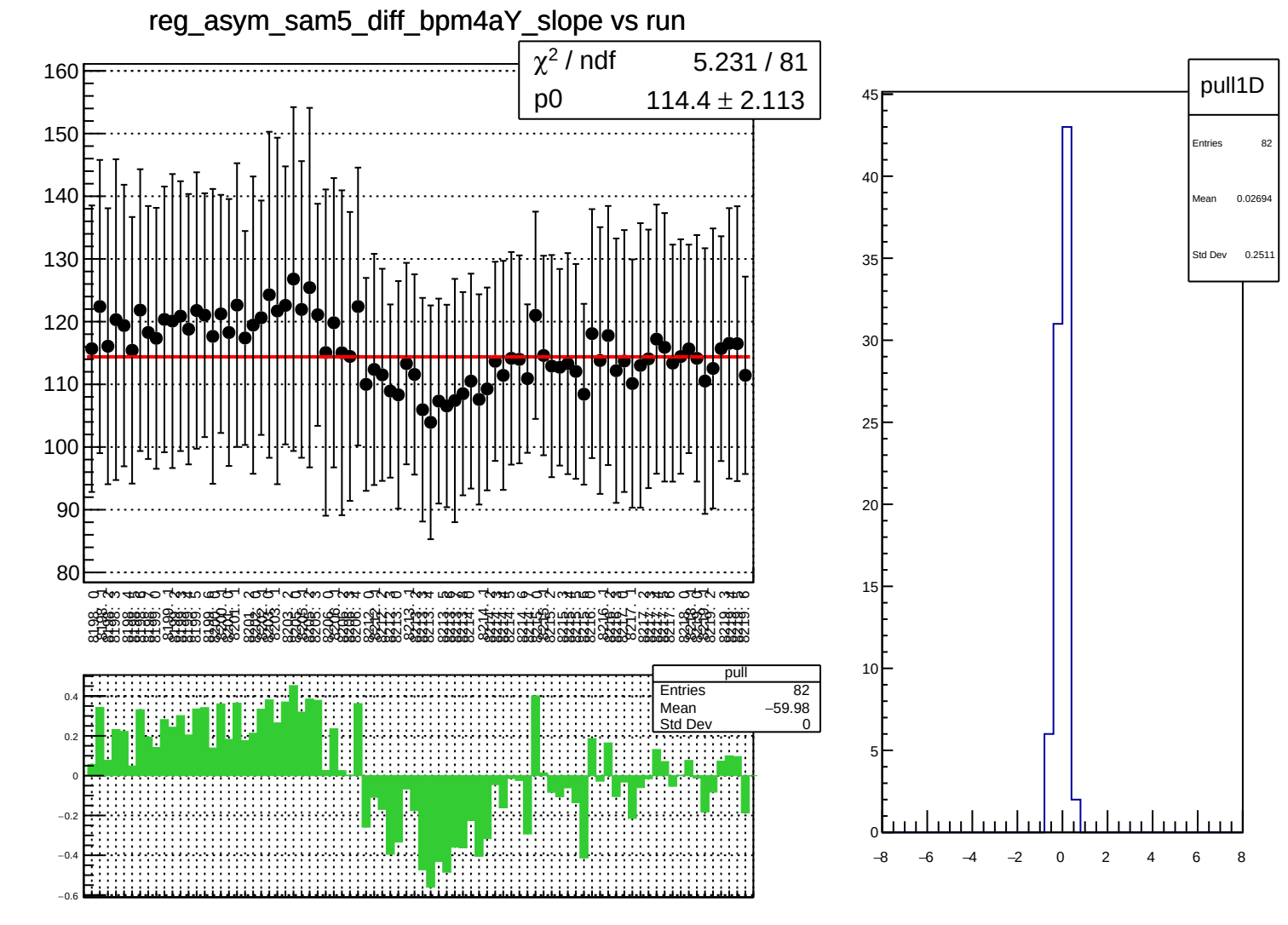

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.381 / 81
p0 119.4 ± 7.643
pull
Entries 82
Mean −34.37
Std Dev 29.89
pull1D
Entries 82
Mean −0.002985
Std Dev 0.1297

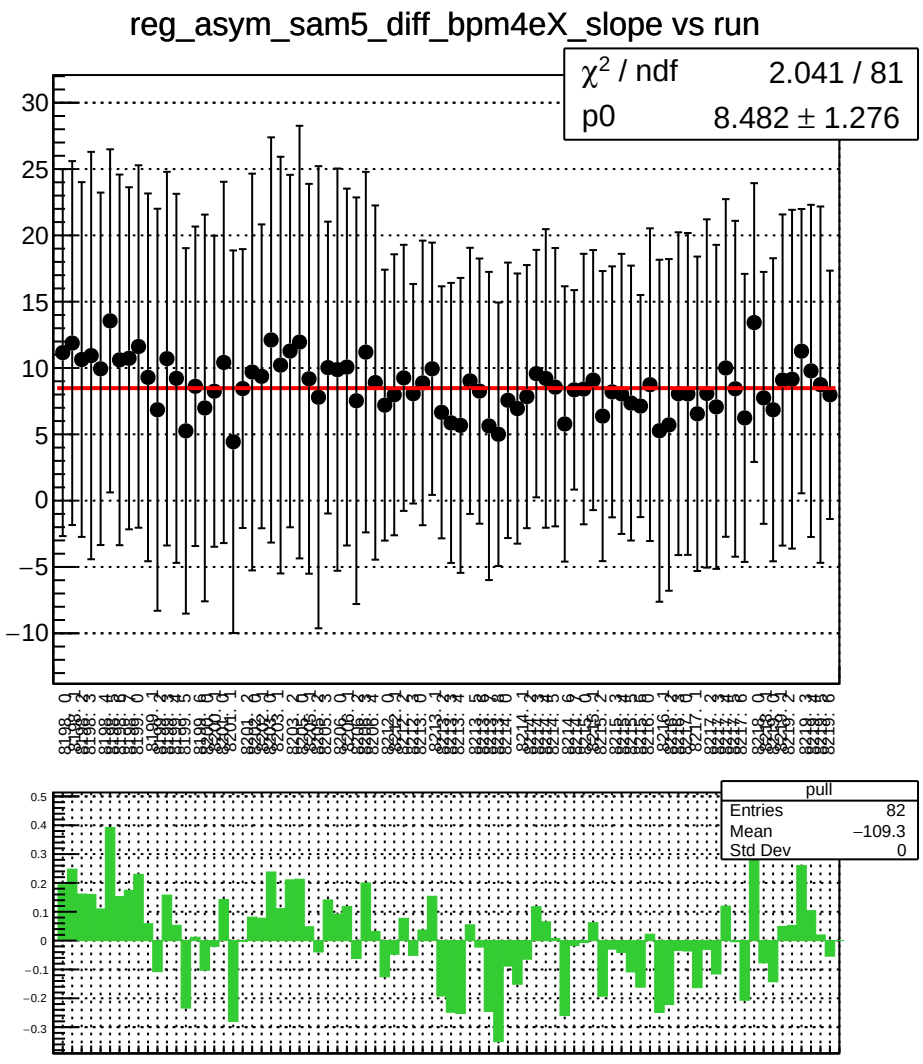

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 1.582 / 81
p0 −2.401 ± 0.3472
pull
Entries 82
Mean 1635
Std Dev 0

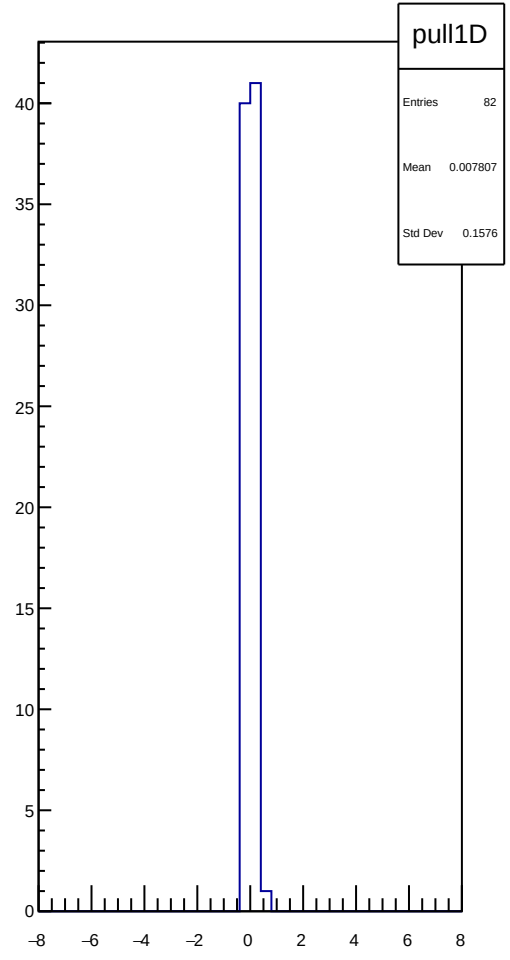

pull1D
Entries 82
Mean 0.0009543
Std Dev 0.1389

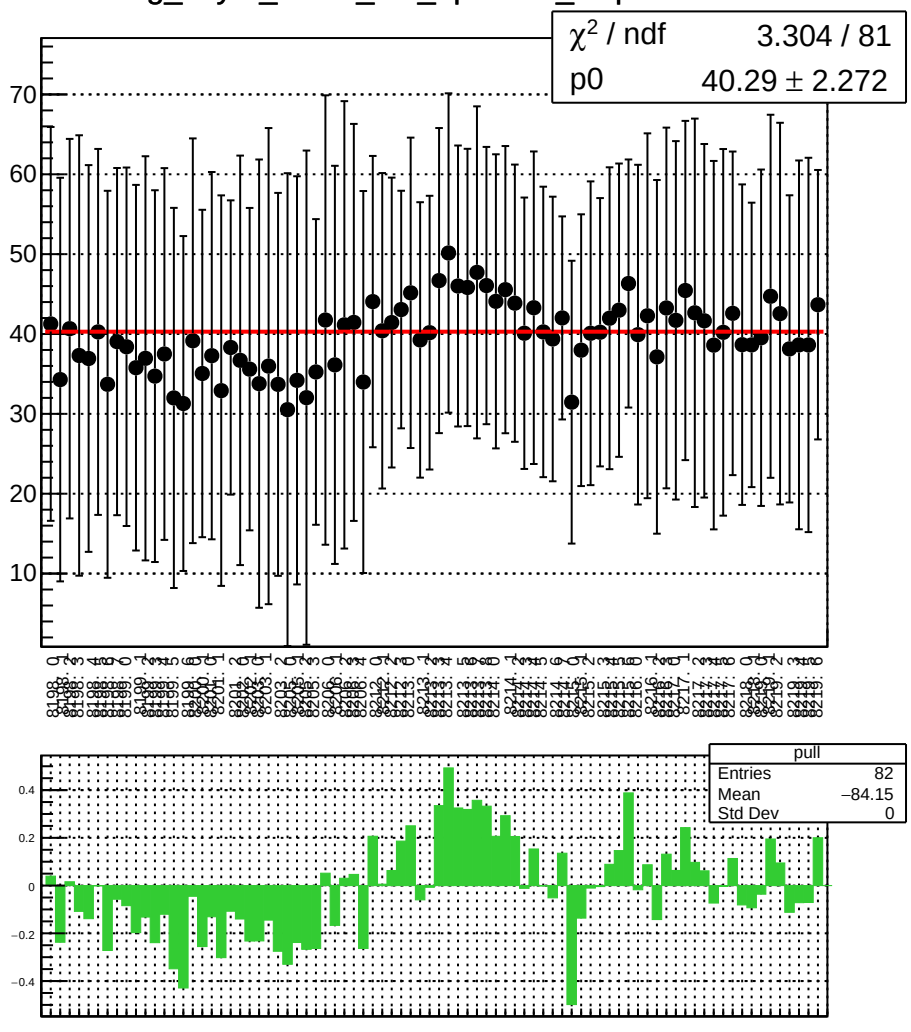

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 2.348 / 81
p0 −4.198 ± 1.27
pull
Entries 82
Mean −162.1
Std Dev 0

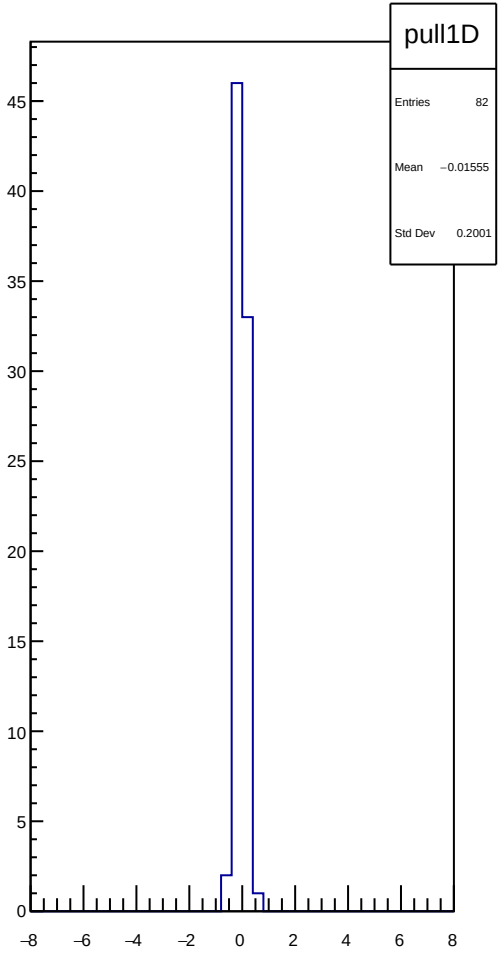

pull1D
Entries 82
Mean −0.00894
Std Dev 0.169

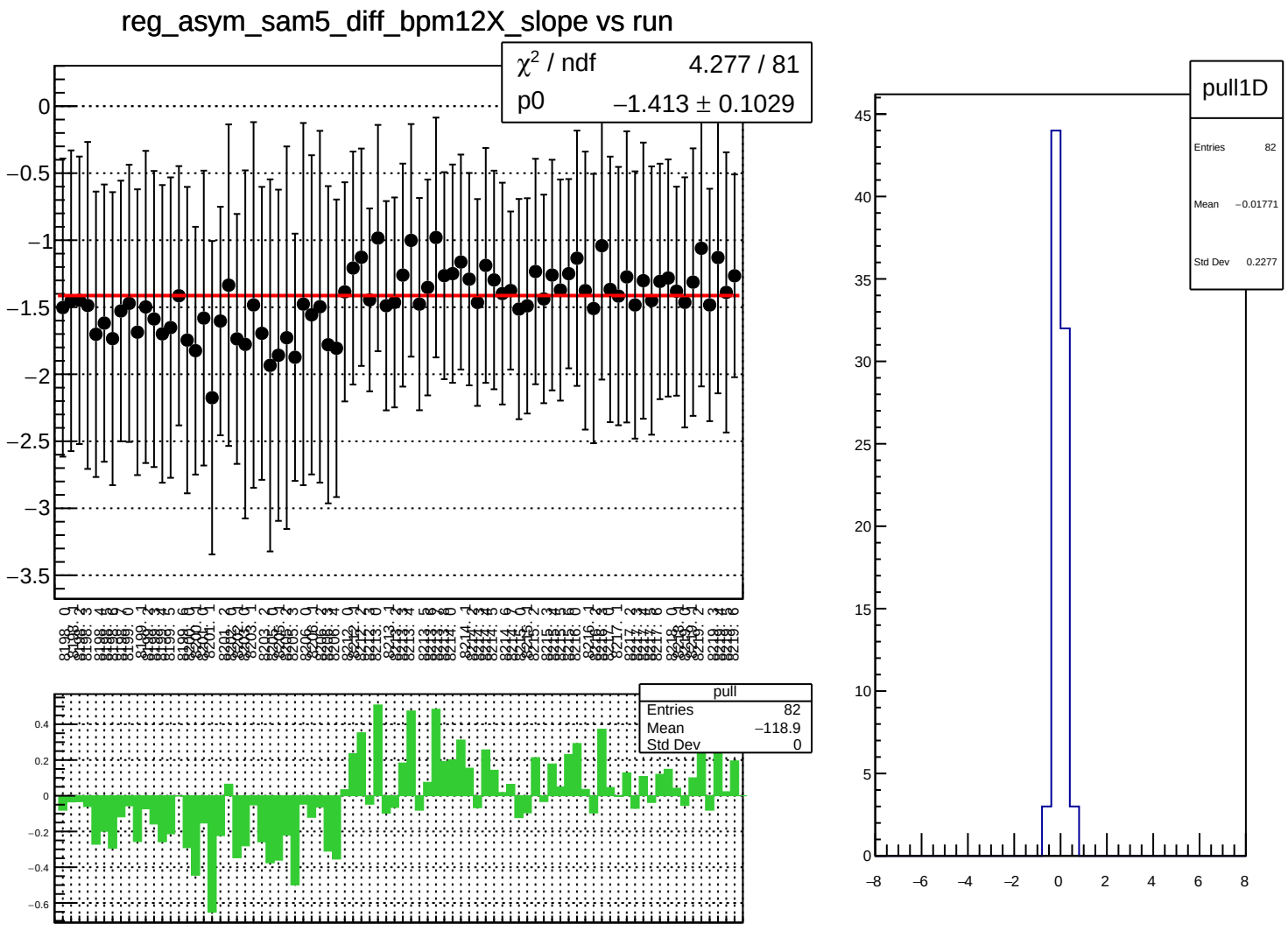

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 5.231 / 81
p0 114.4 ± 2.113
pull
Entries 82
Mean −59.98
Std Dev 0
pull1D
Entries 82
Mean 0.02694
Std Dev 0.2511

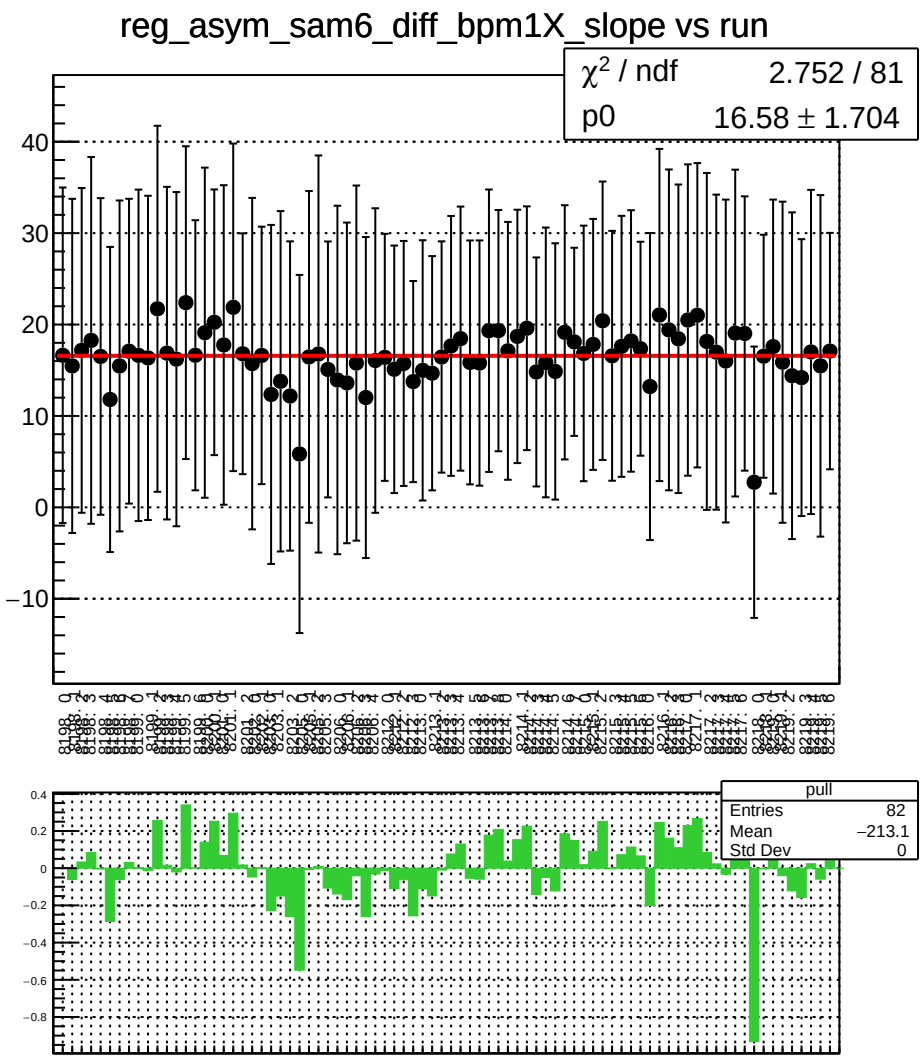

reg_asym_sam5_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 2.041 / 81
p0 8.482 ± 1.276
pull
Entries 82
Mean −109.3
Std Dev 0

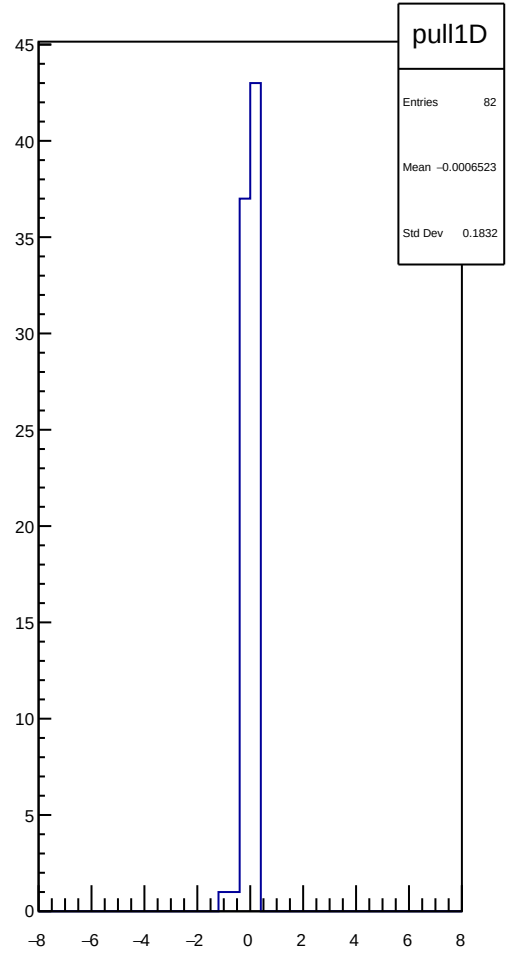

pull1D
Entries 82
Mean 0.007807
Std Dev 0.1576

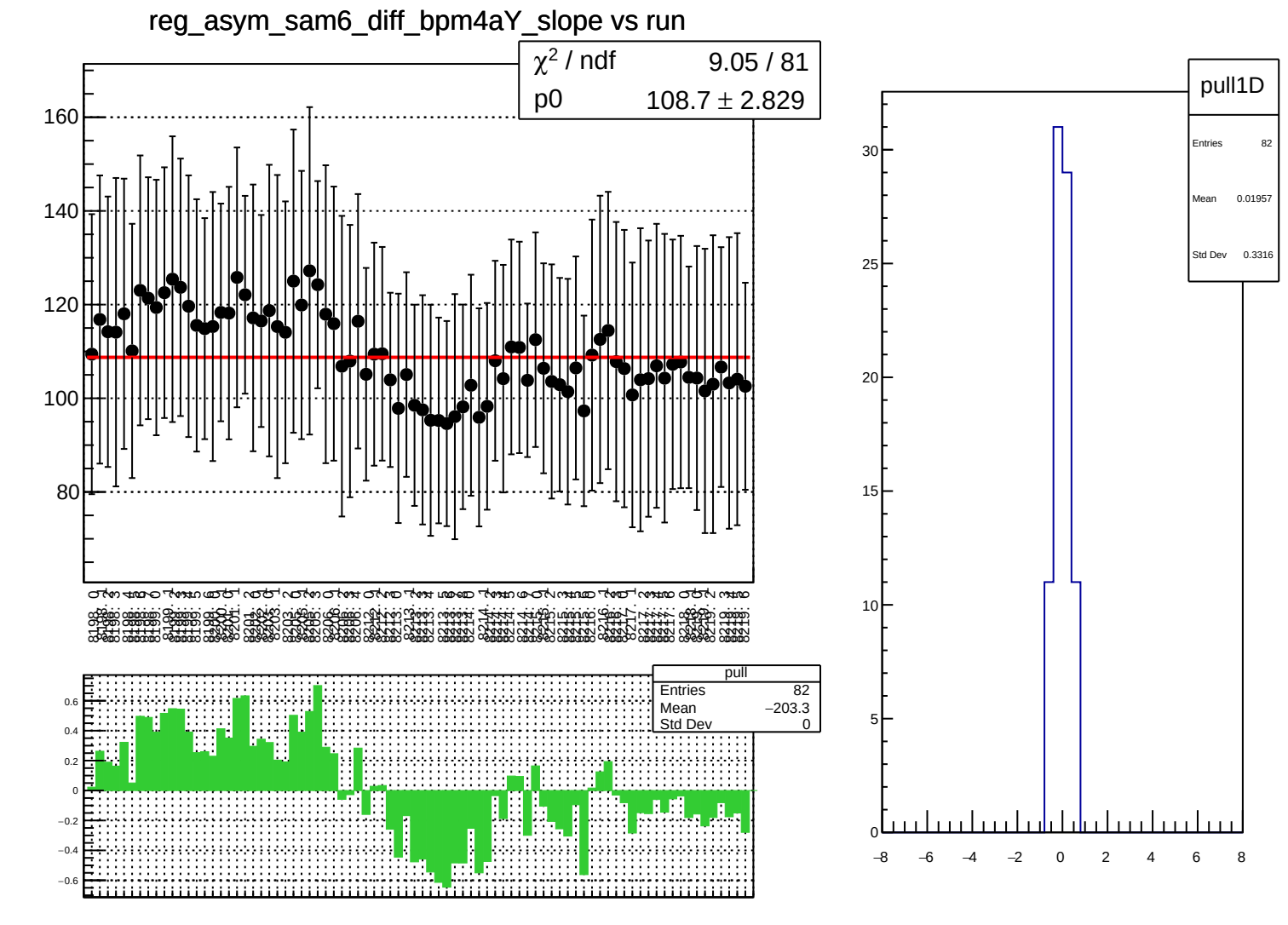

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 3.304 / 81
p0 40.29 ± 2.272
pull
Entries 82
Mean −84.15
Std Dev 0

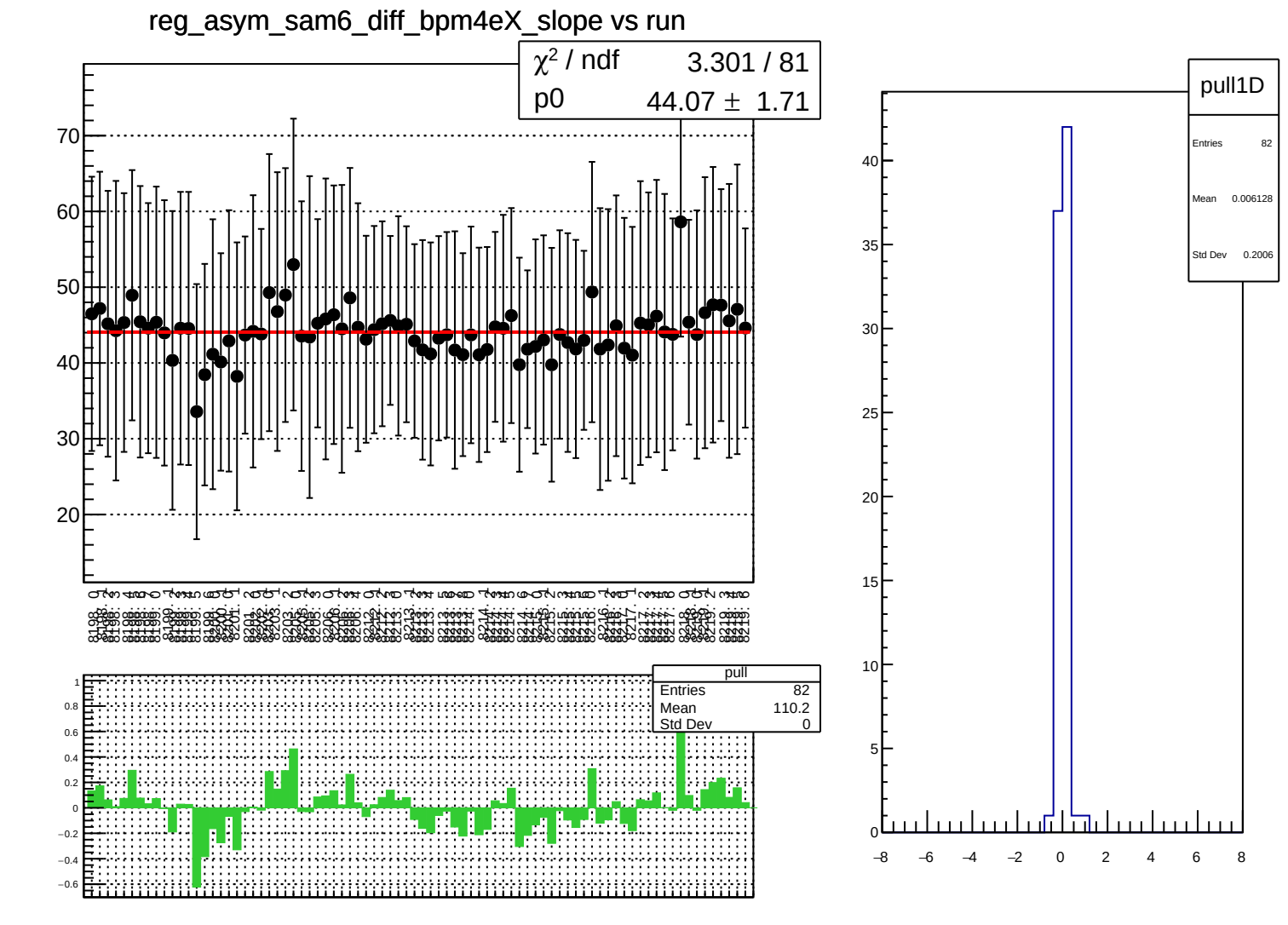

pull1D
Entries 82
Mean −0.01555
Std Dev 0.2001

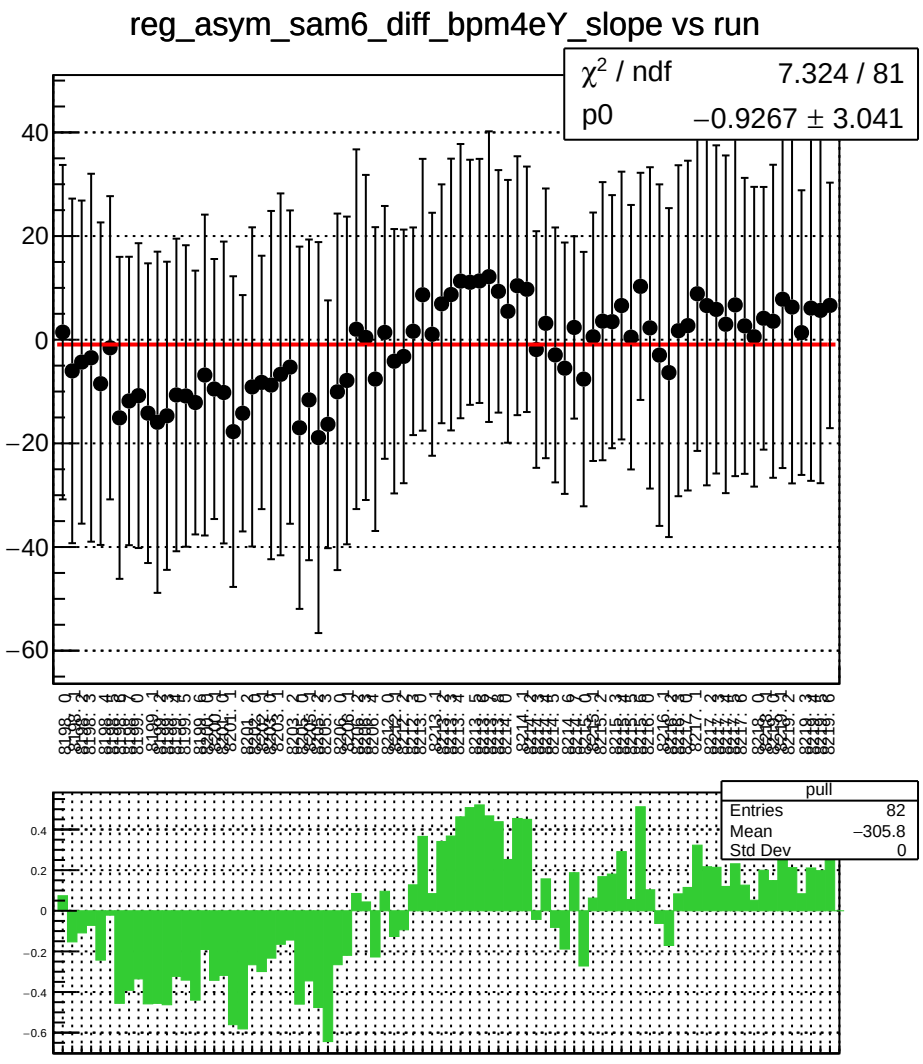

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 4.277 / 81
p0 −1.413 ± 0.1029
pull
Entries 82
Mean −118.9
Std Dev 0
pull1D
Entries 82
Mean −0.01771
Std Dev 0.2277

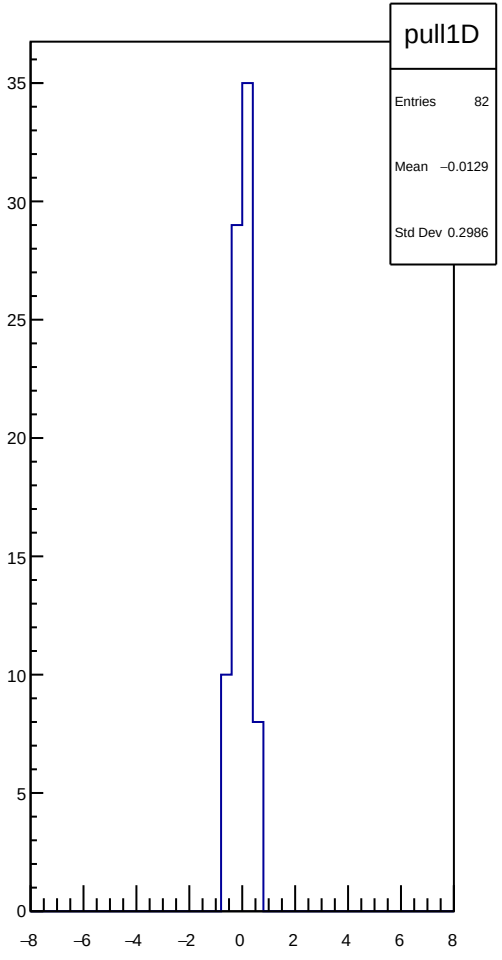

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 2.752 / 81
p0 16.58 ± 1.704
pull
Entries 82
Mean −213.1
Std Dev 0

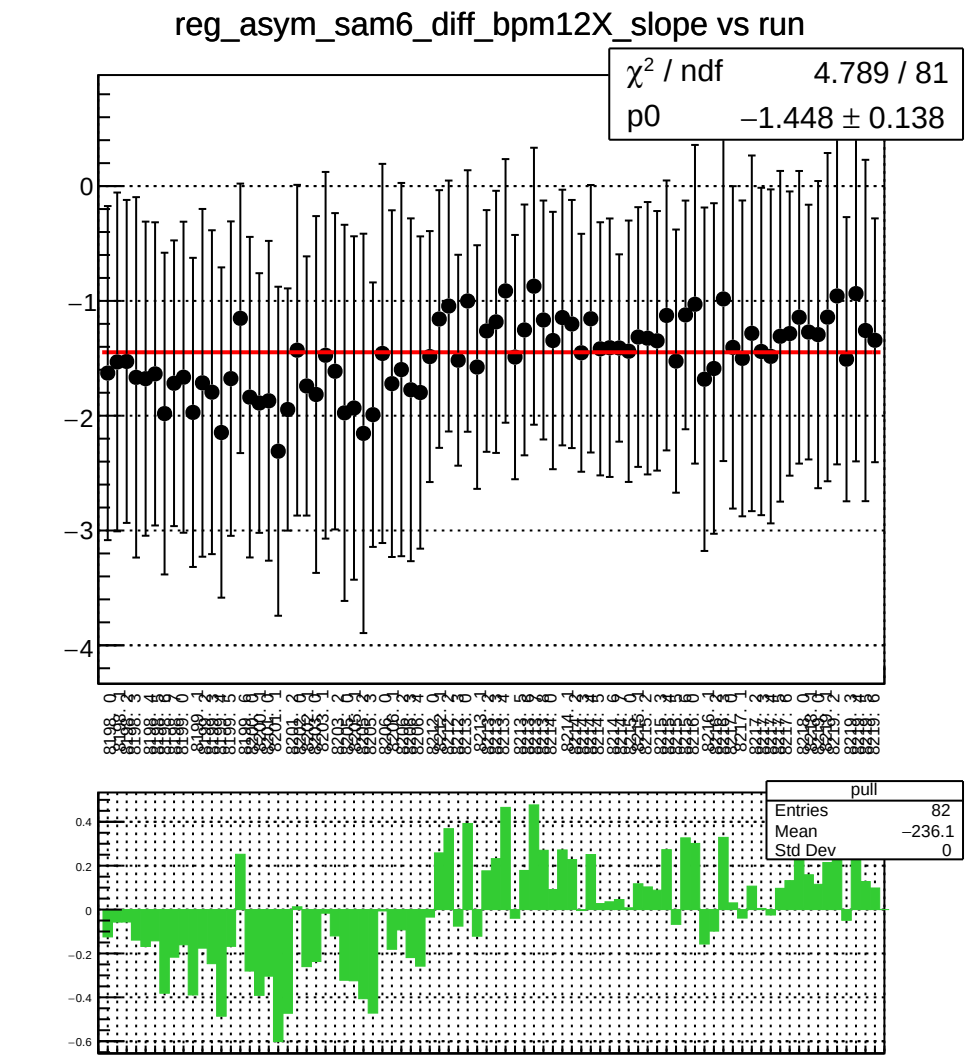

pull1D
Entries 82
Mean −0.0006523
Std Dev 0.1832

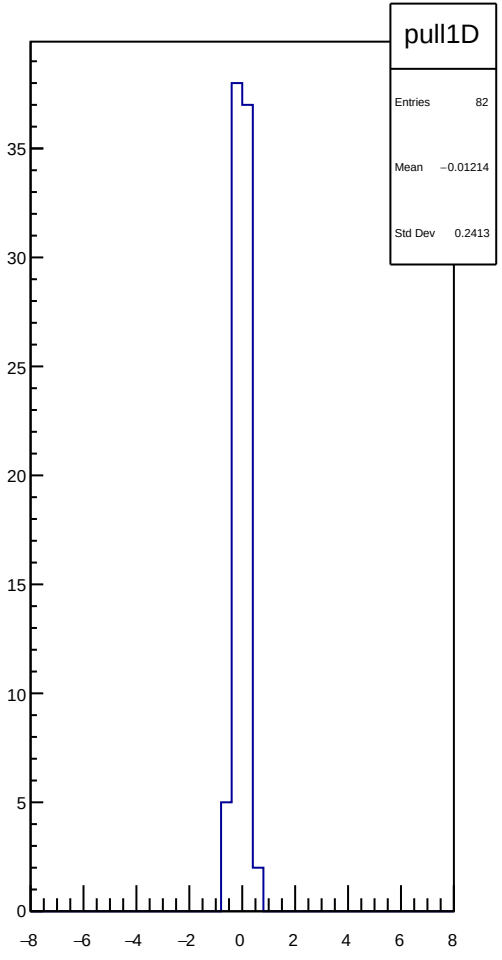

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 9.05 / 81
p0 108.7 ± 2.829
160
140
120
100
80
pull
Entries 82
Mean −203.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean 0.01957
Std Dev 0.3316
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

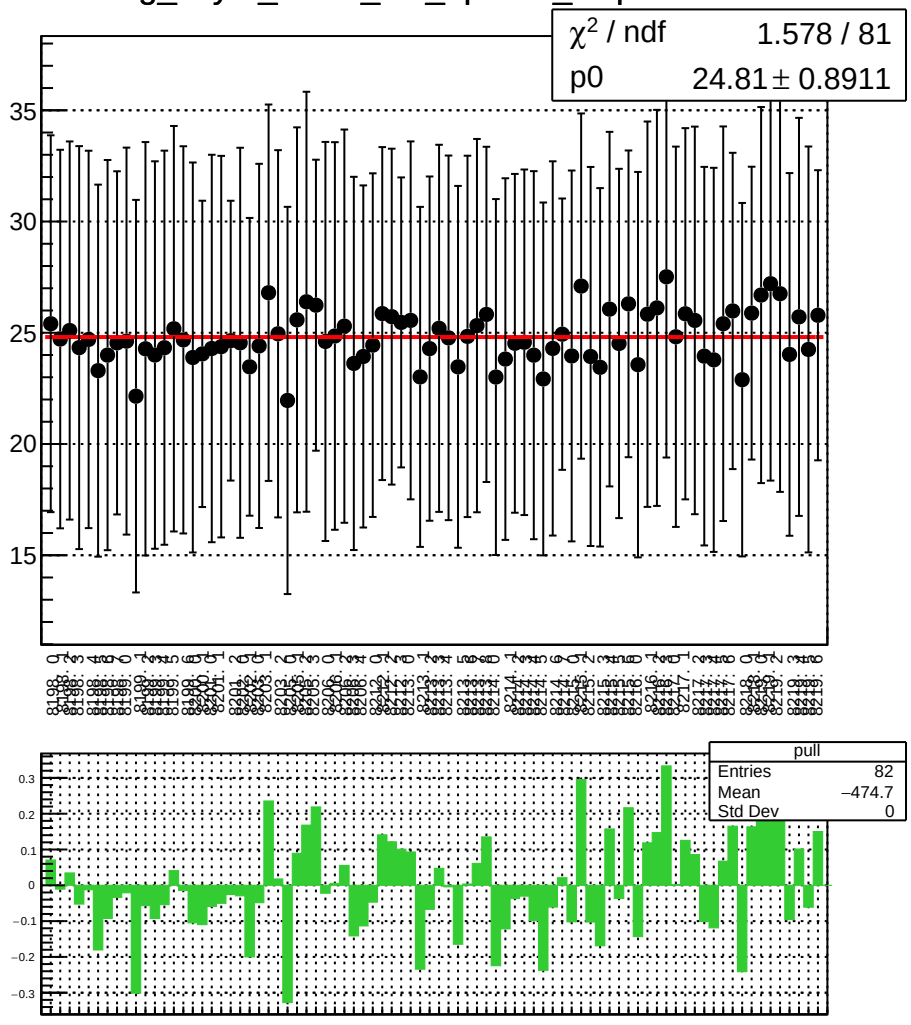

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.301 / 81
p0 44.07 ± 1.71
pull
Entries 82
Mean 110.2
Std Dev 0
pull1D
Entries 82
Mean 0.006128
Std Dev 0.2006

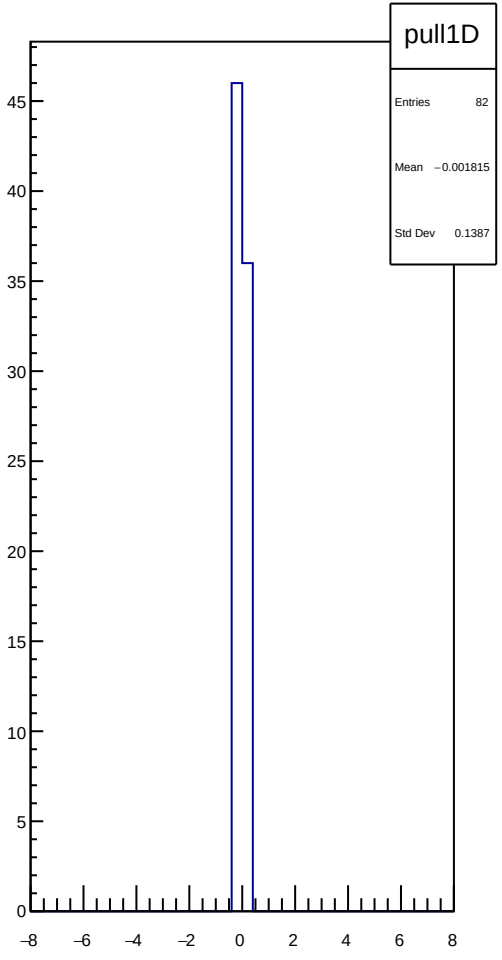

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 7.324 / 81
p0 −0.9267 ± 3.041
pull
Entries 82
Mean −305.8
Std Dev 0

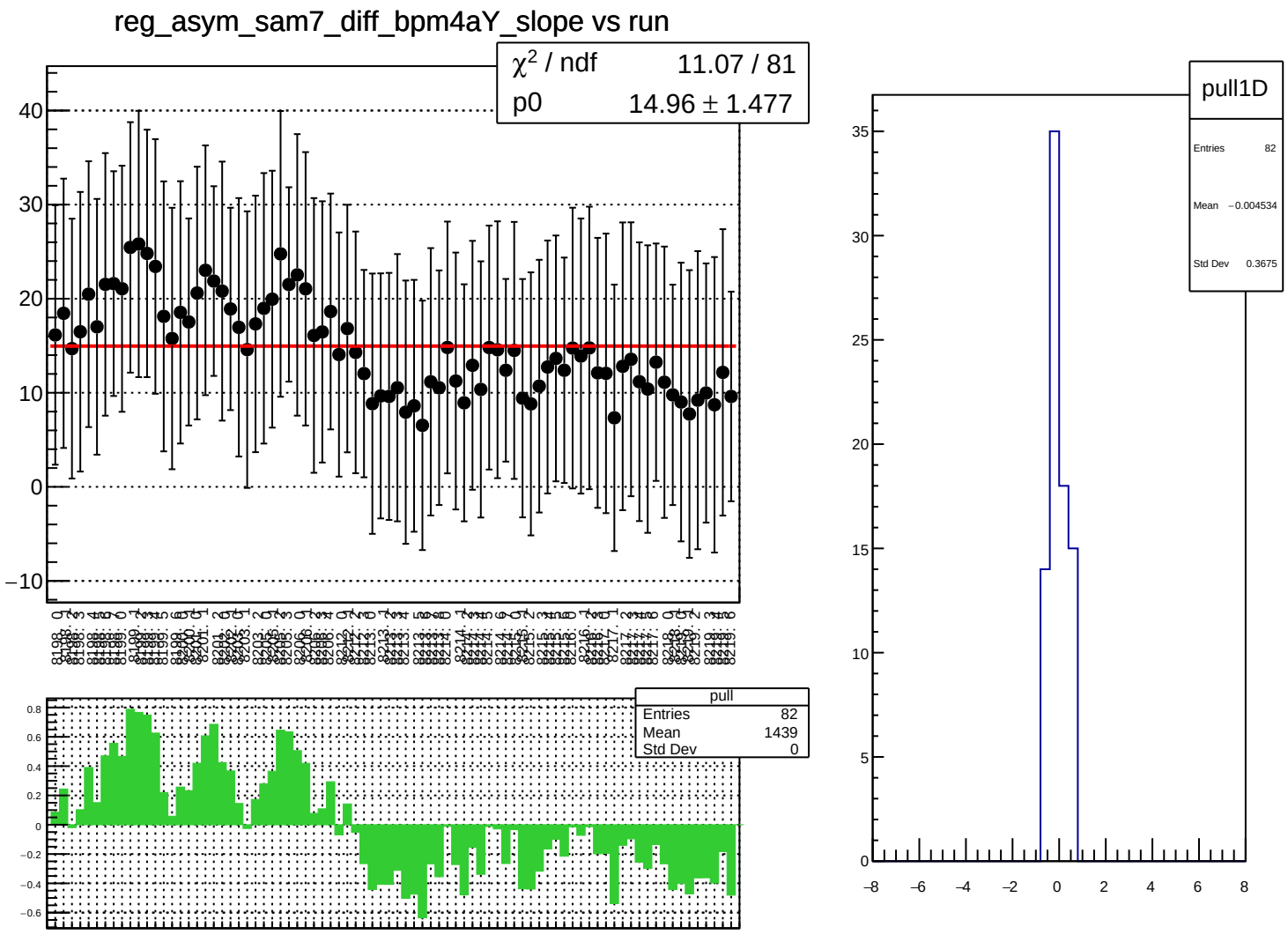

pull1D
Entries 82
Mean −0.0129
Std Dev 0.2986

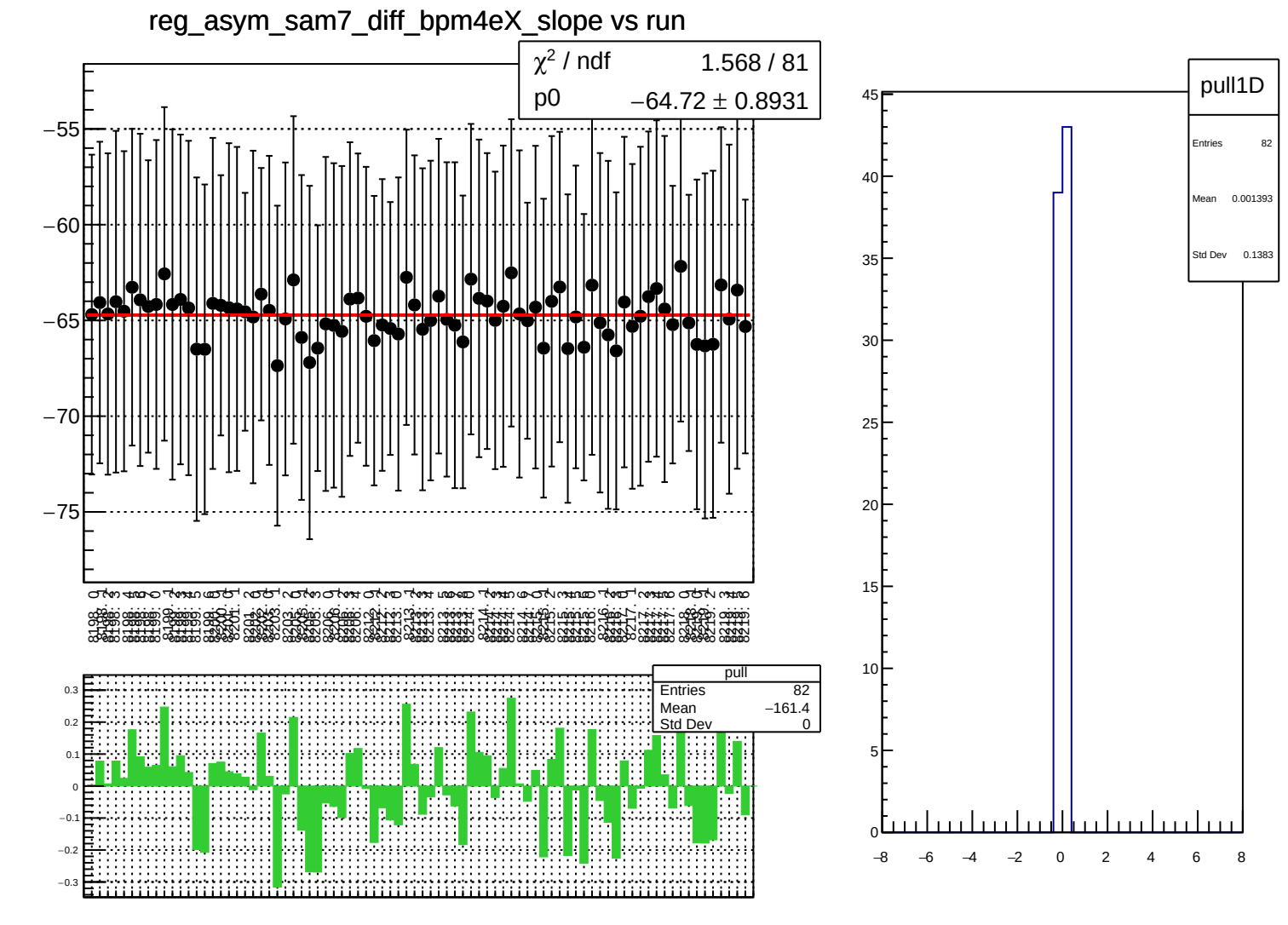

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 4.789 / 81
p0 −1.448 ± 0.138
pull
Entries 82
Mean −236.1
Std Dev 0

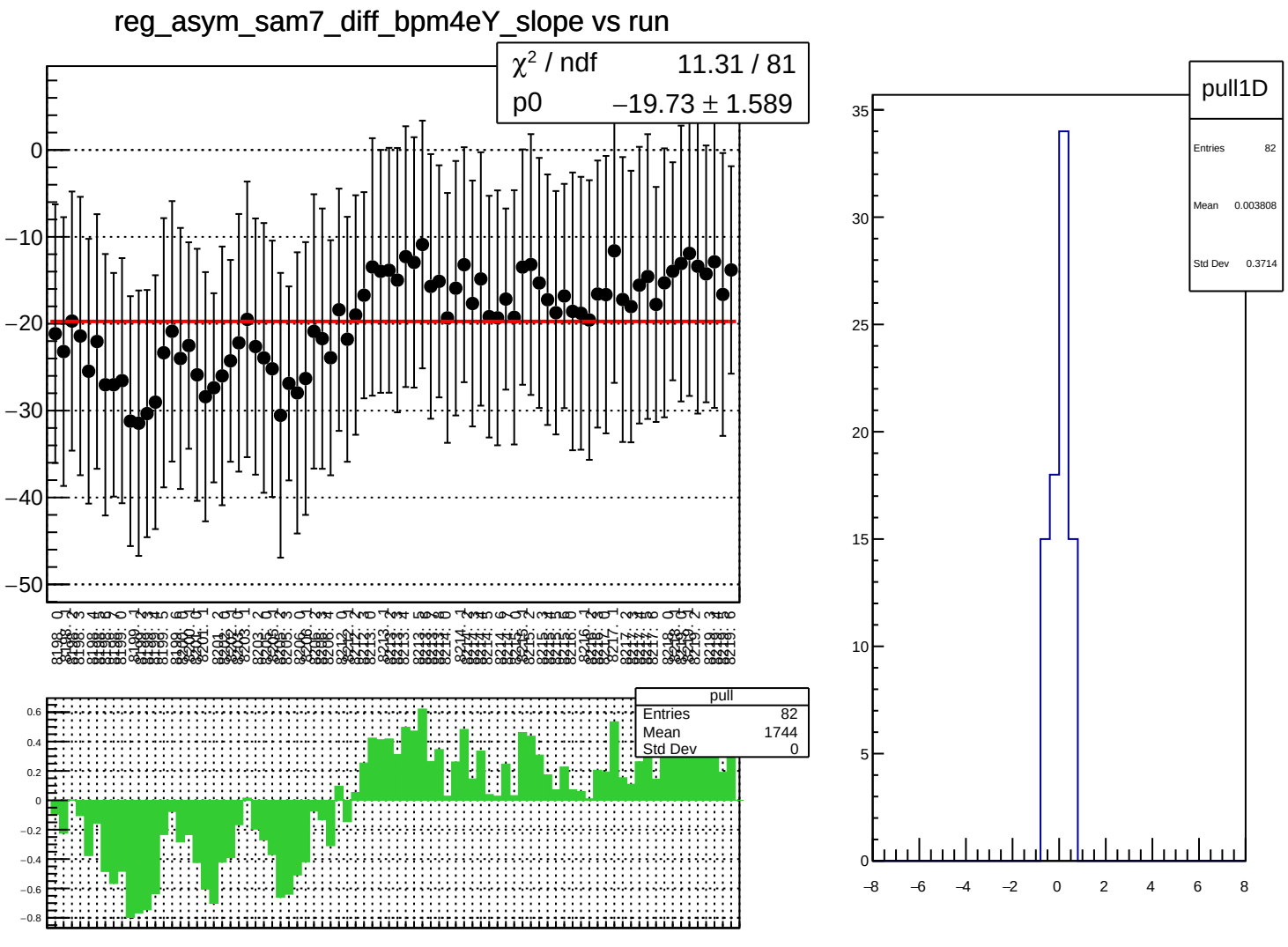

pull1D
Entries 82
Mean −0.01214
Std Dev 0.2413

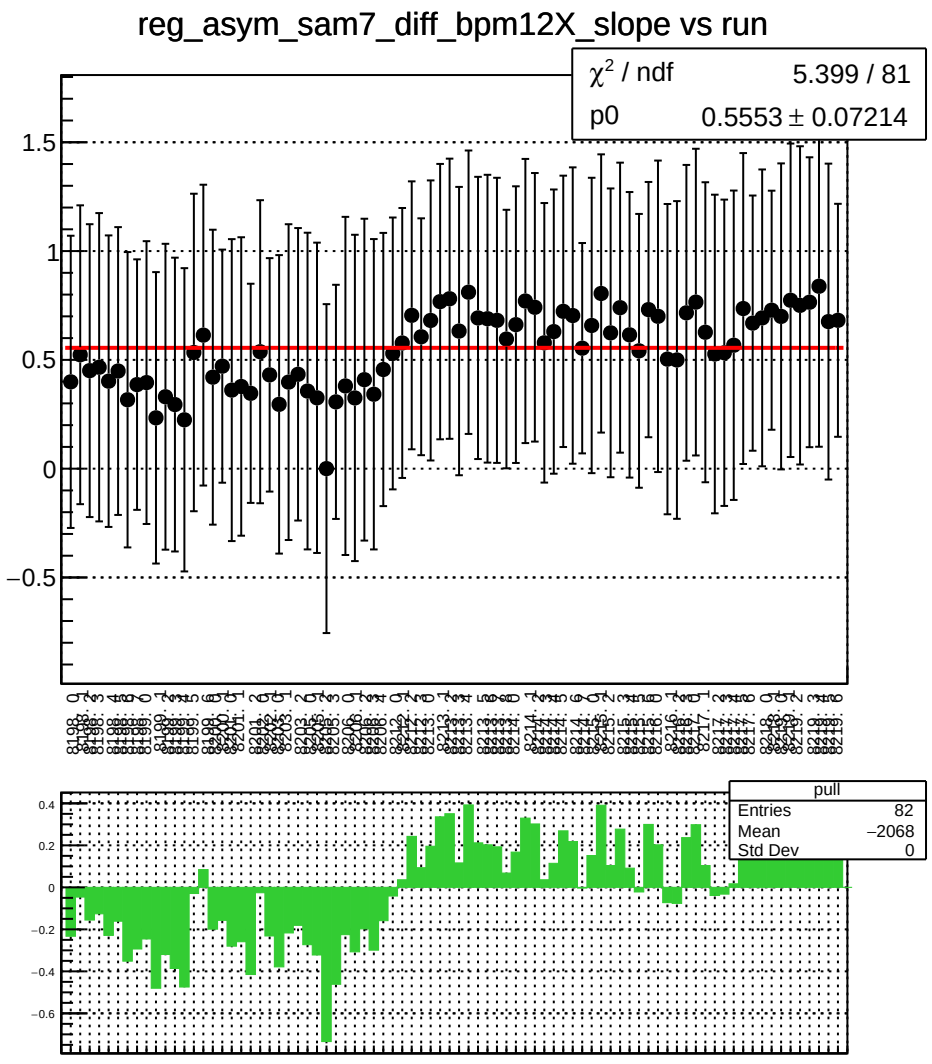

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 1.578 / 81
p0 24.81 ± 0.8911
pull
Entries 82
Mean −474.7
Std Dev 0

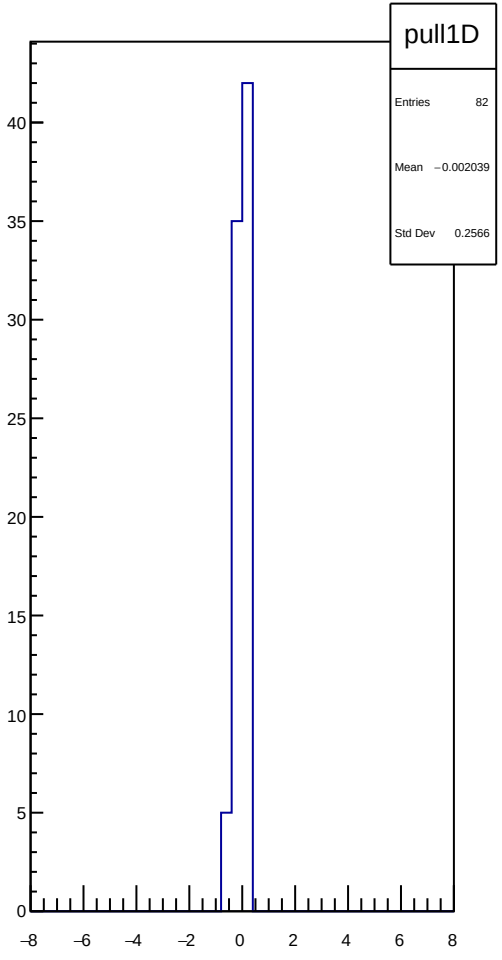

pull1D
Entries 82
Mean −0.001815
Std Dev 0.1387

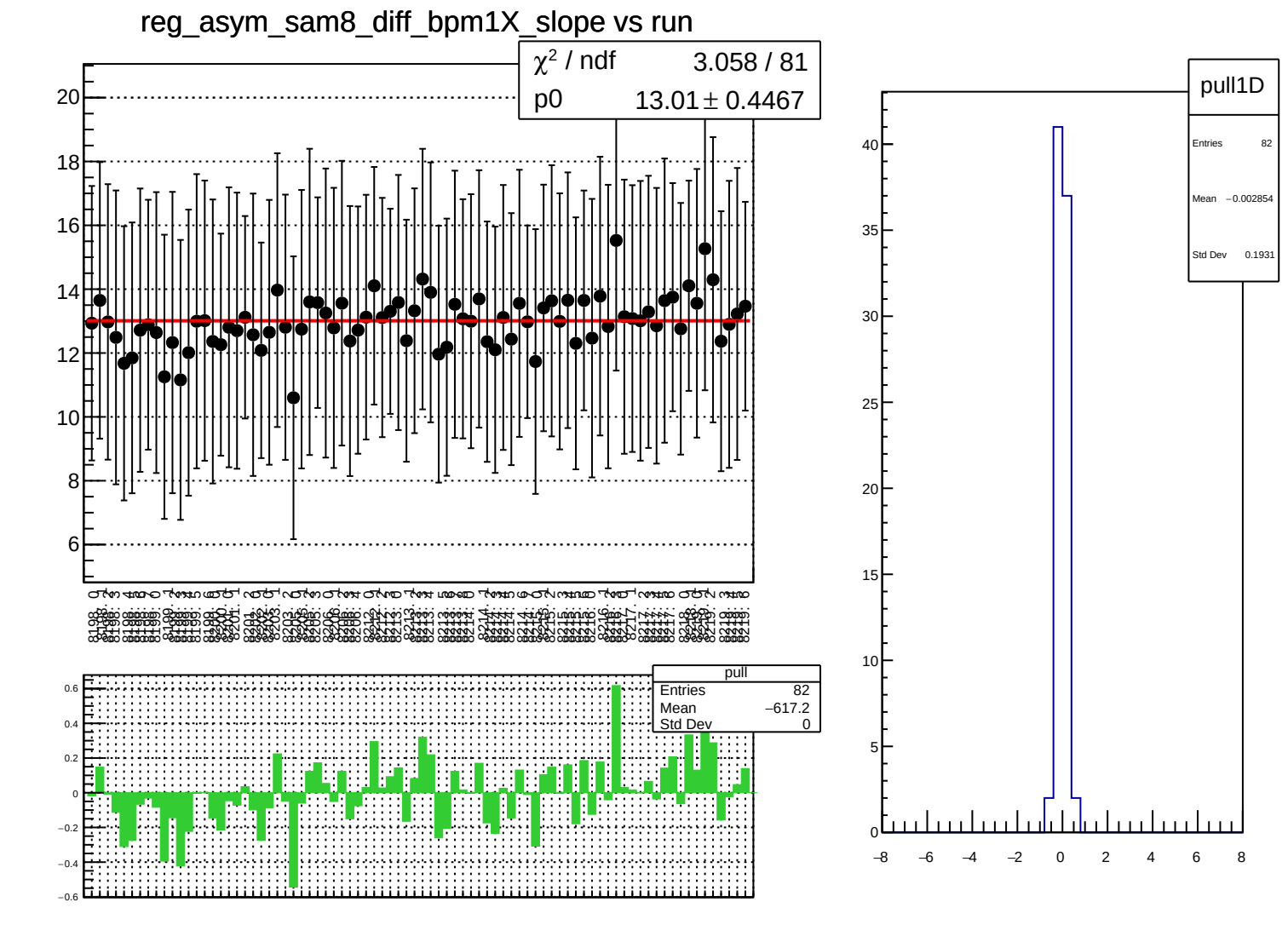

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 11.07 / 81
p0 14.96 ± 1.477
pull
Entries 82
Mean 1439
Std Dev 0
pull1D
Entries 82
Mean −0.004534
Std Dev 0.3675

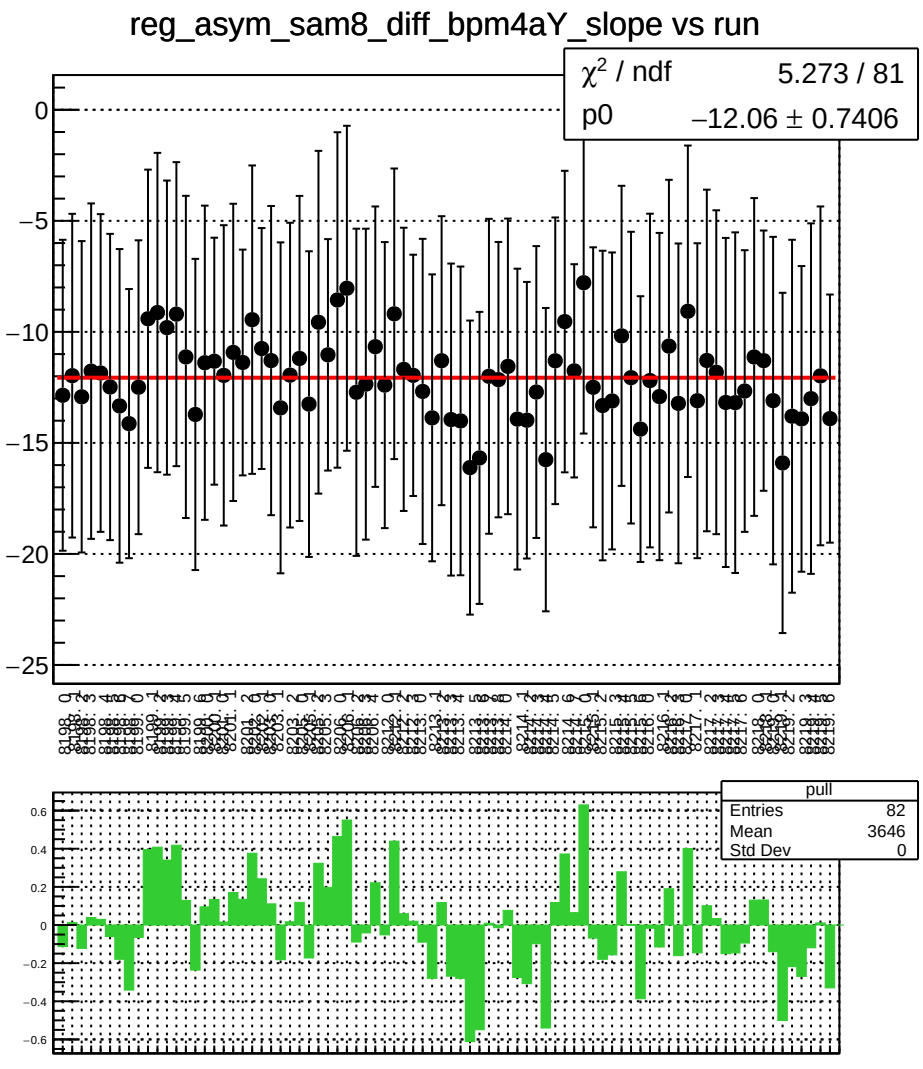

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 1.568 / 81
p0 −64.72 ± 0.8931
pull
Entries 82
Mean −161.4
Std Dev 0
pull1D
Entries 82
Mean 0.001393
Std Dev 0.1383

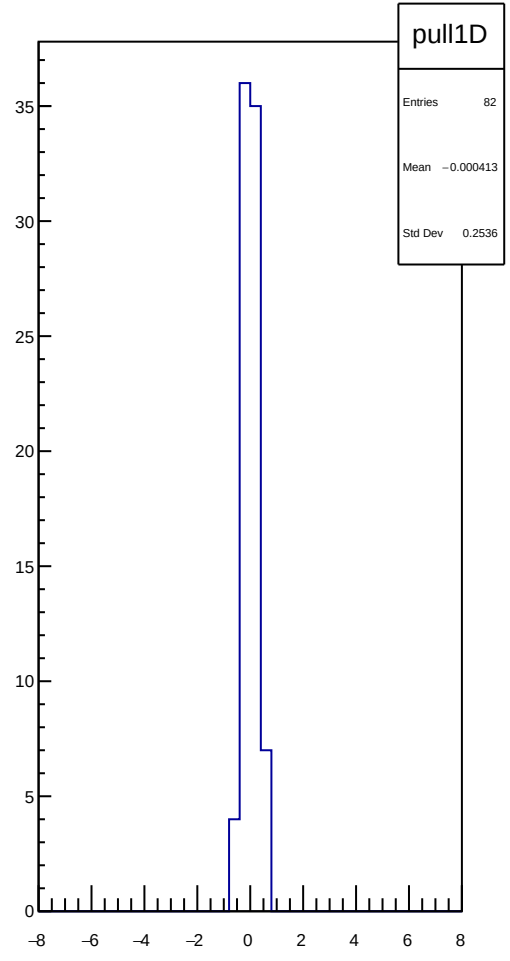

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 11.31 / 81
p0 −19.73 ± 1.589
pull
Entries 82
Mean 1744
Std Dev 0
pull1D
Entries 82
Mean 0.003808
Std Dev 0.3714

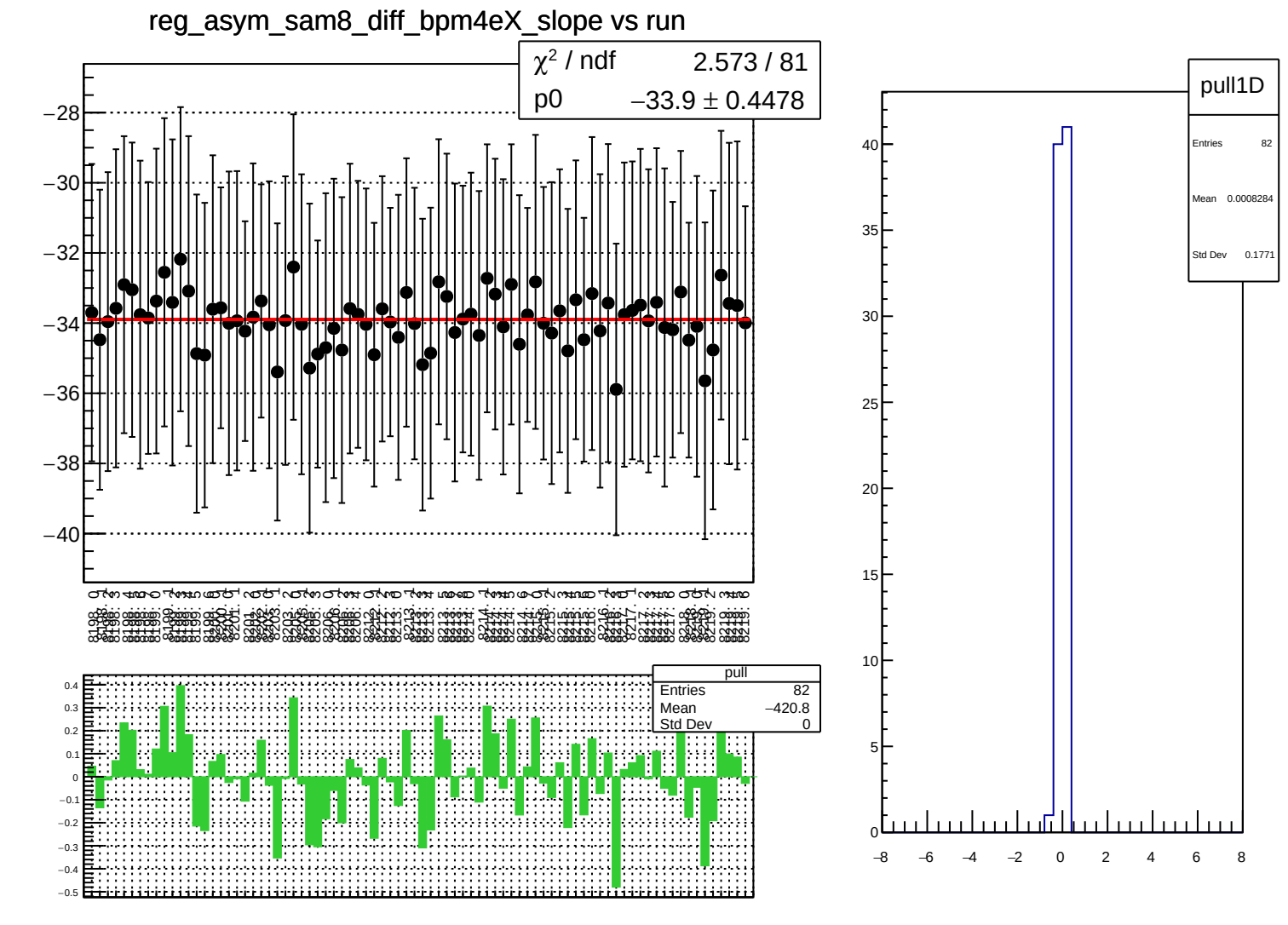

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 5.399 / 81
p0 0.5553 ± 0.07214
pull
Entries 82
Mean −2068
Std Dev 0

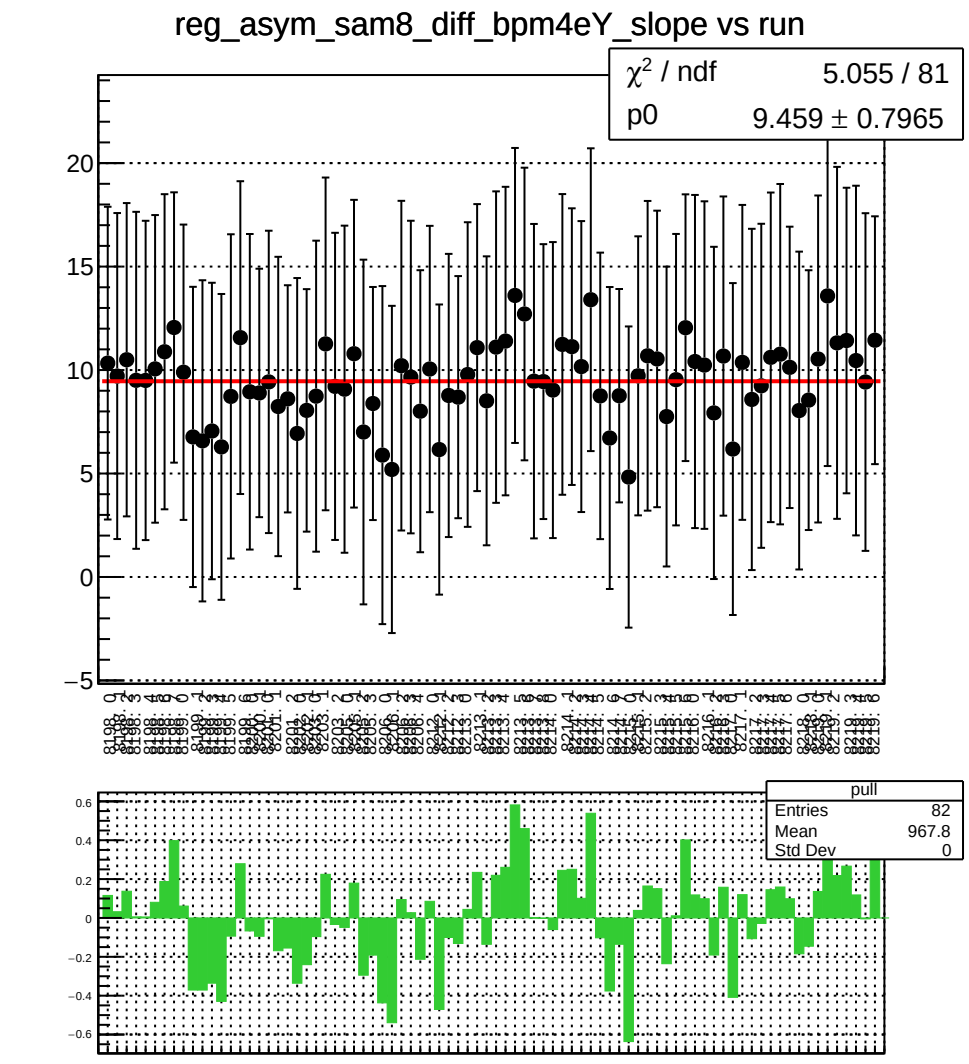

pull1D
Entries 82
Mean −0.002039
Std Dev 0.2566

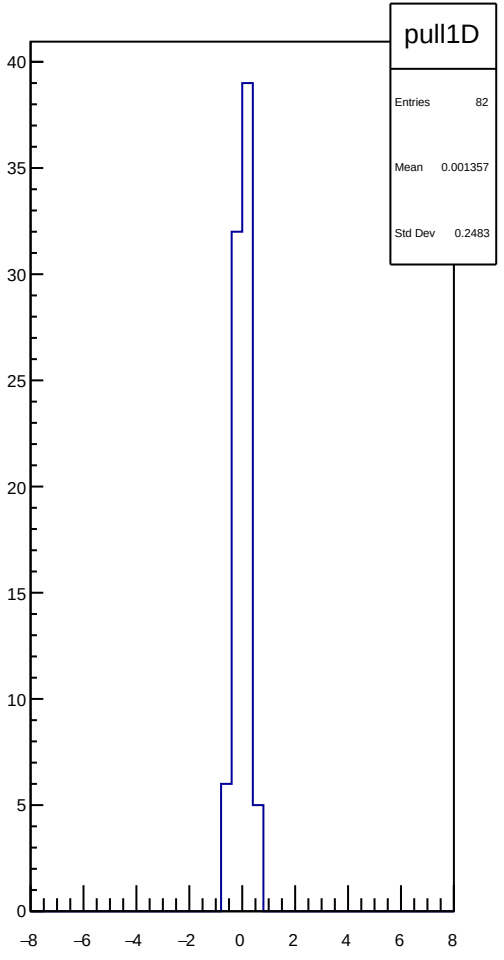

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 3.058 / 81
p0 13.01 ± 0.4467
pull
Entries 82
Mean −617.2
Std Dev 0
pull1D
Entries 82
Mean −0.002854
Std Dev 0.1931

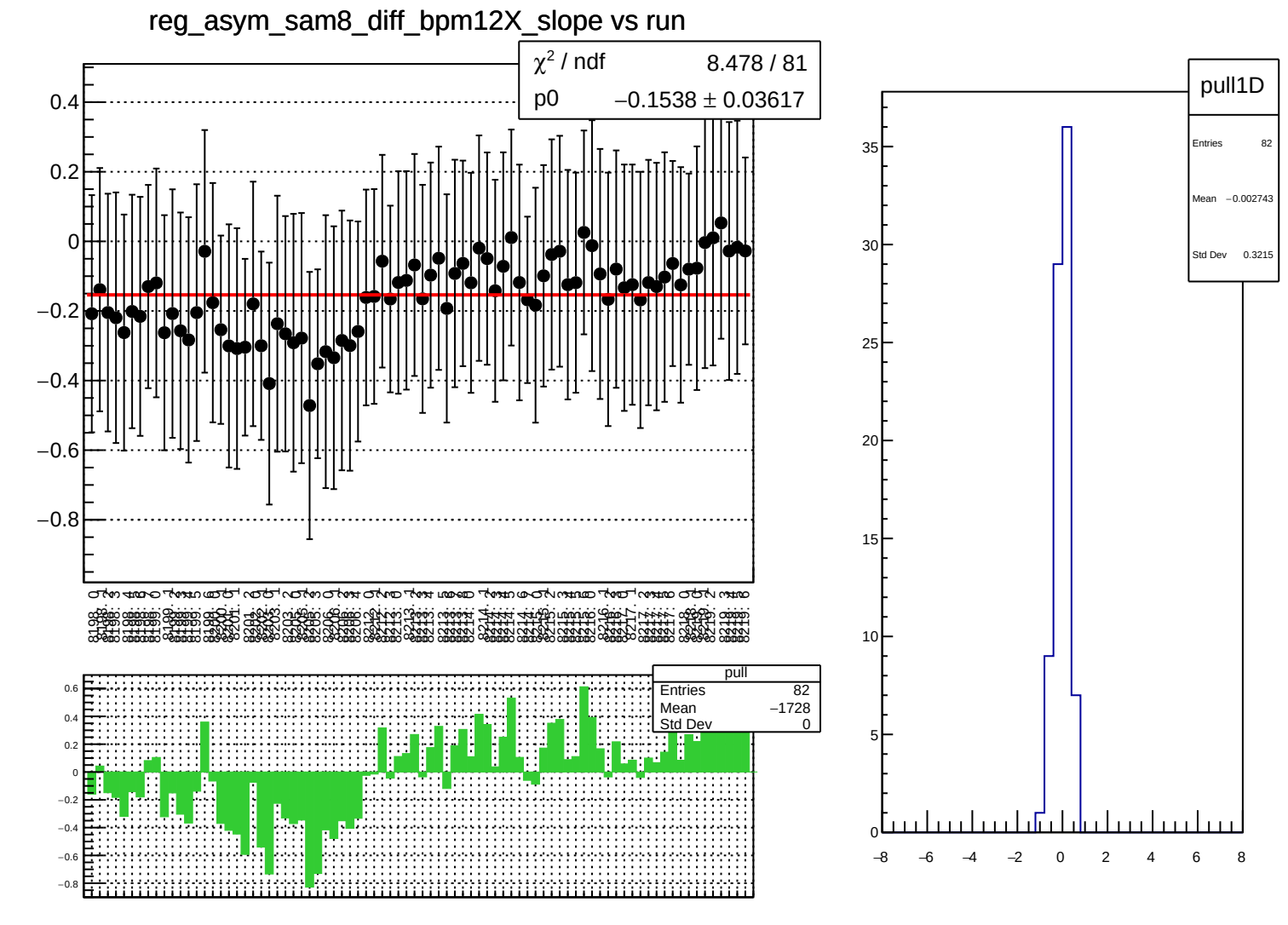

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 5.273 / 81
p0 −12.06 ± 0.7406
pull
Entries 82
Mean 3646
Std Dev 0

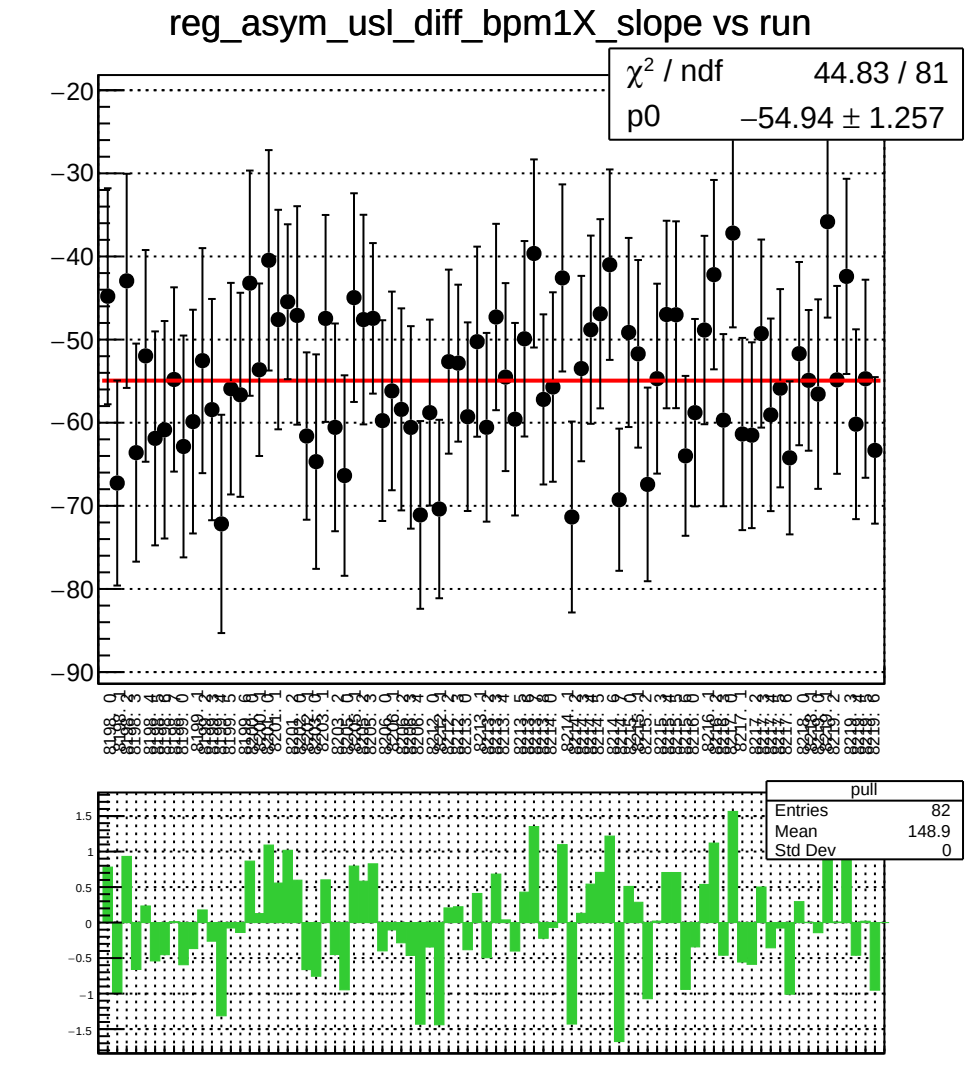

pull1D
Entries 82
Mean −0.000413
Std Dev 0.2536

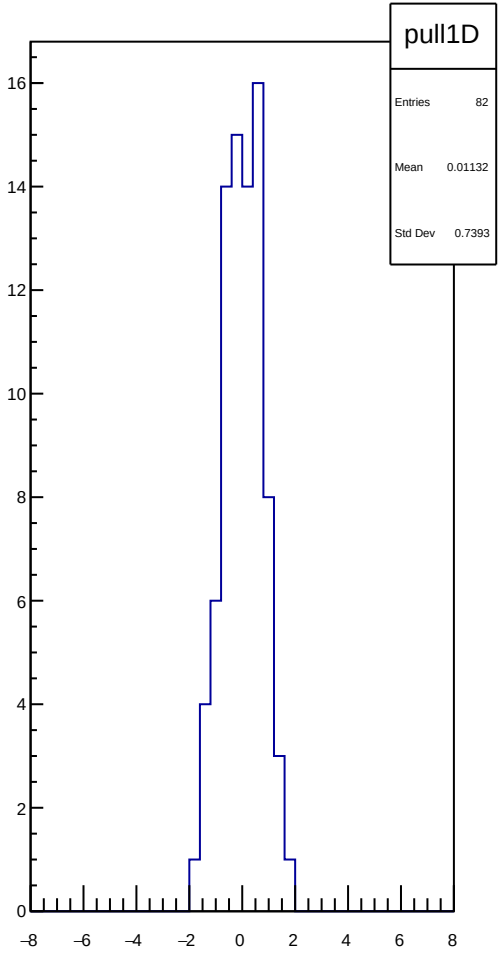

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 2.573 / 81
p0 −33.9 ± 0.4478
pull
Entries 82
Mean −420.8
Std Dev 0
pull1D
Entries 82
Mean 0.0008284
Std Dev 0.1771

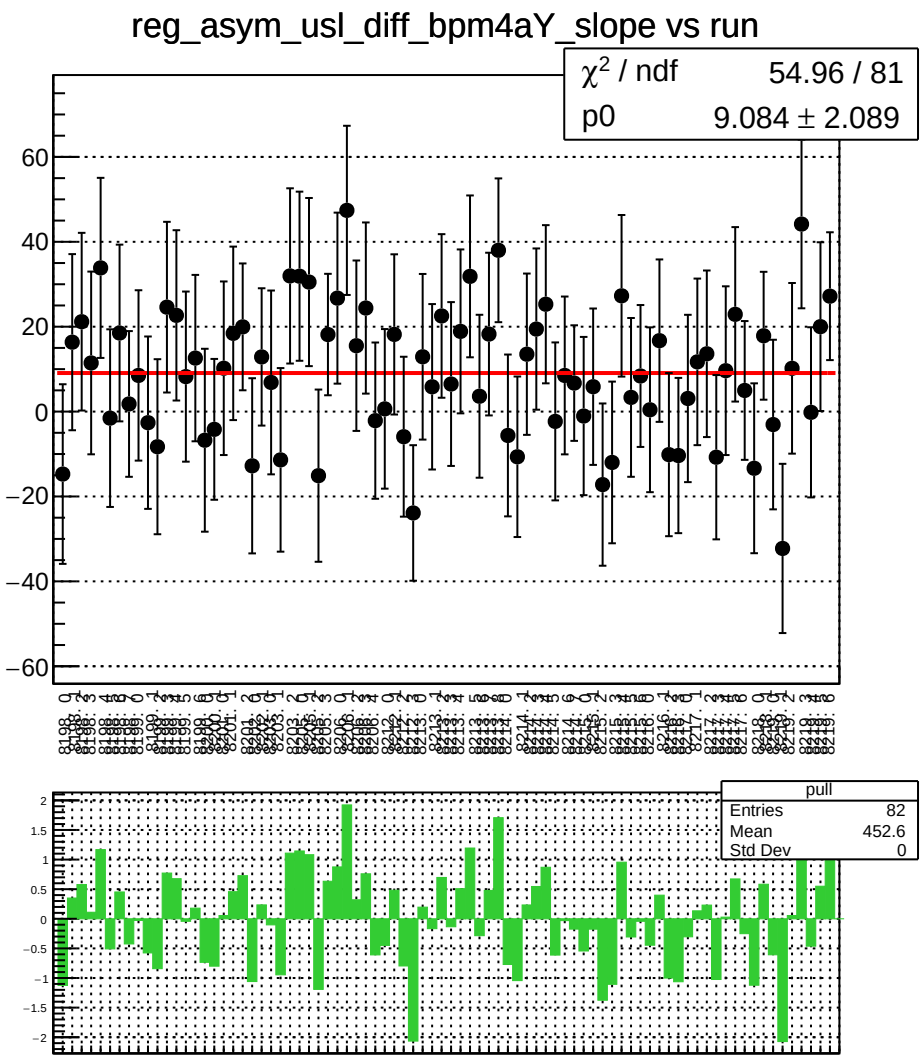

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 5.055 / 81
p0 9.459 ± 0.7965
pull
Entries 82
Mean 967.8
Std Dev 0

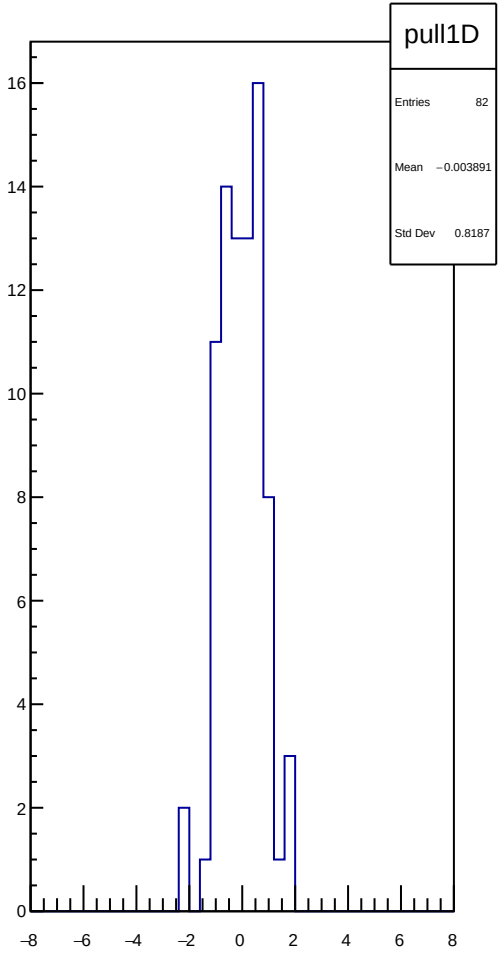

pull1D
Entries 82
Mean 0.001357
Std Dev 0.2483

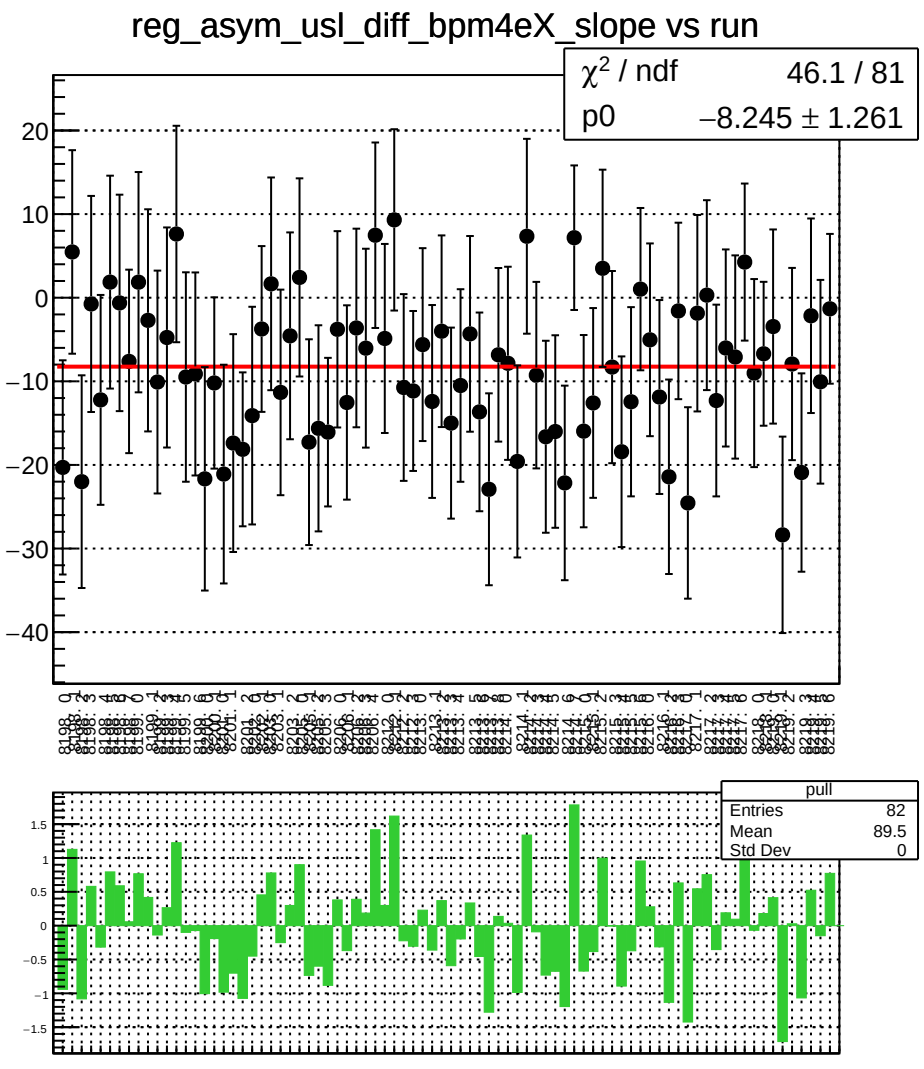

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 8.478 / 81
p0 −0.1538 ± 0.03617
pull
Entries 82
Mean −1728
Std Dev 0
pull1D
Entries 82
Mean −0.002743
Std Dev 0.3215

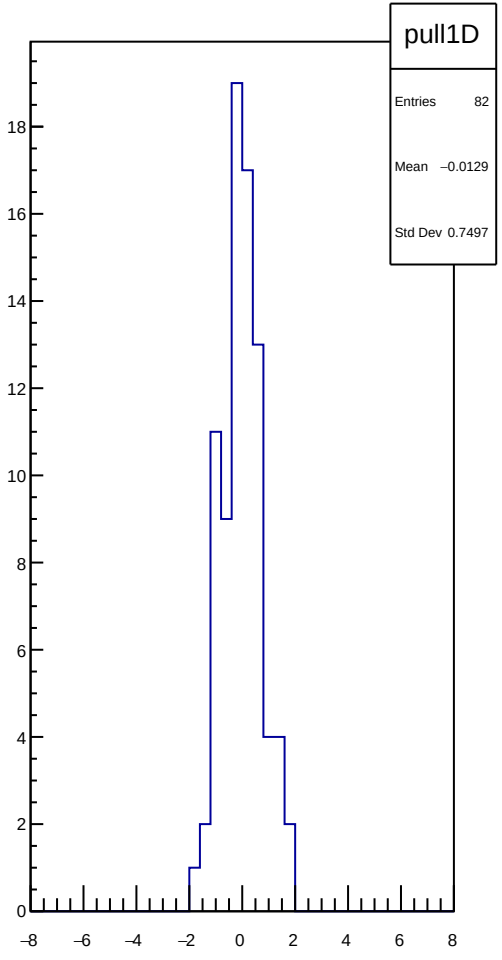

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 44.83 / 81
p0 −54.94 ± 1.257
pull
Entries 82
Mean 148.9
Std Dev 0

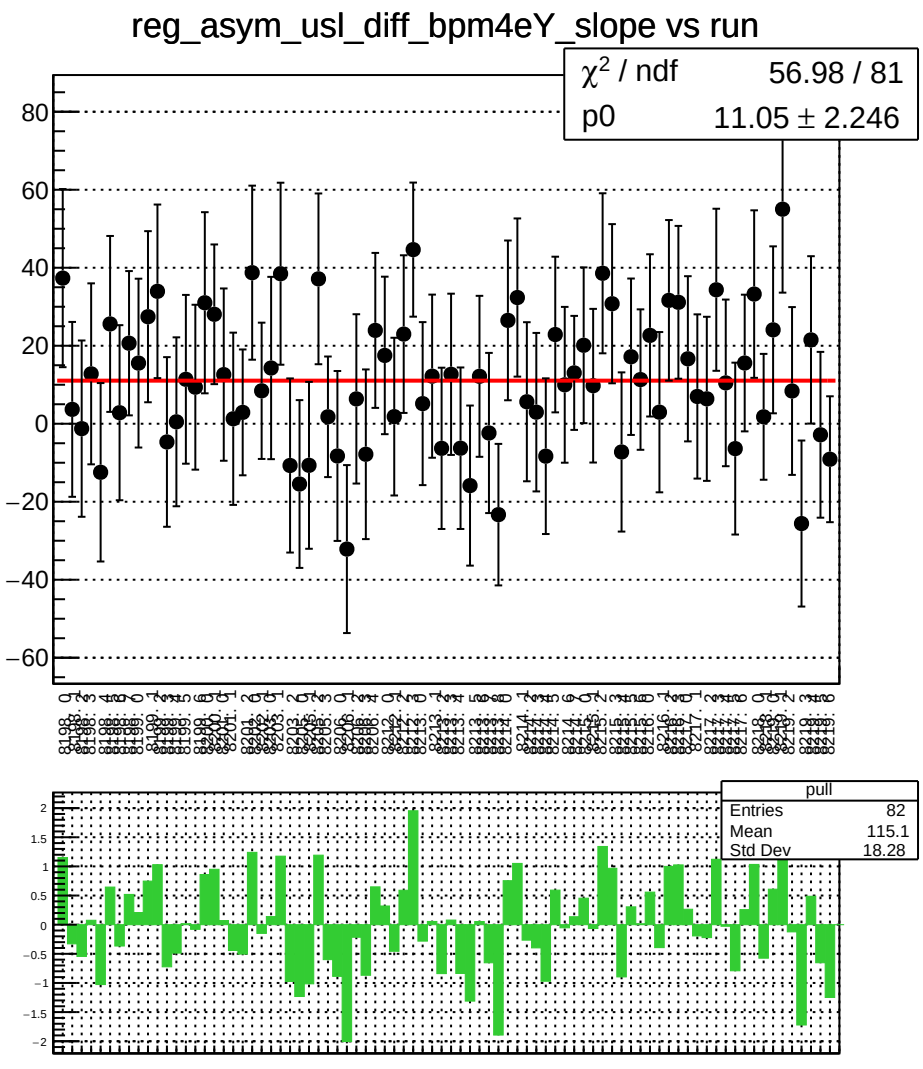

pull1D
Entries 82
Mean 0.01132
Std Dev 0.7393

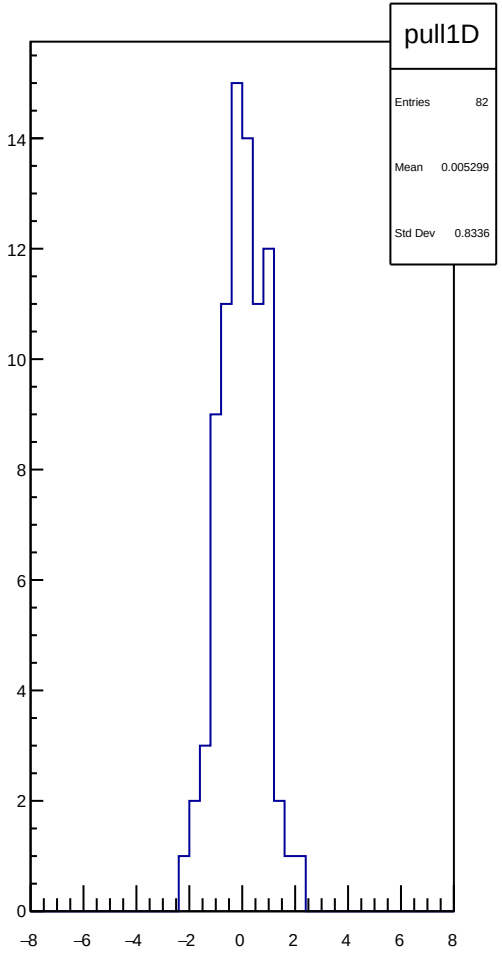

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 54.96 / 81
p0 9.084 ± 2.089
pull
Entries 82
Mean 452.6
Std Dev 0

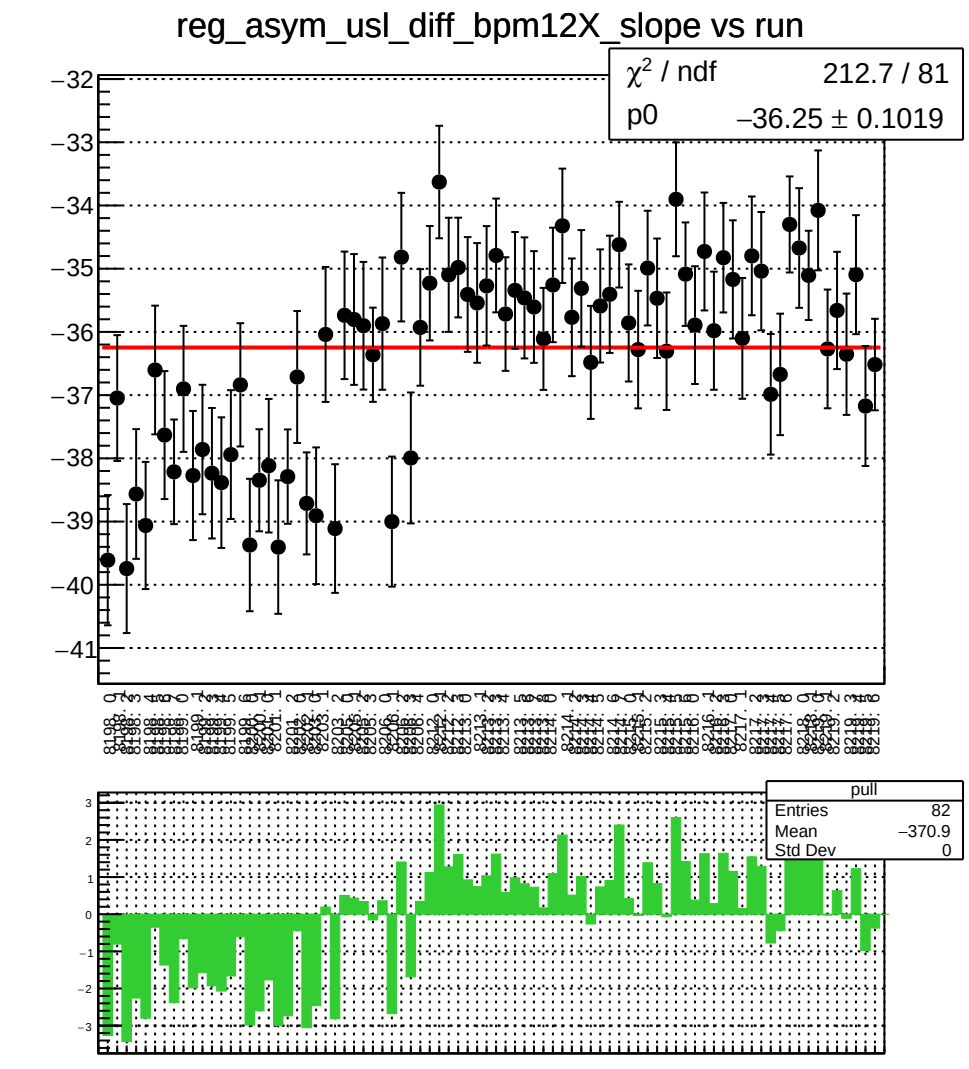

pull1D
Entries 82
Mean −0.003891
Std Dev 0.8187

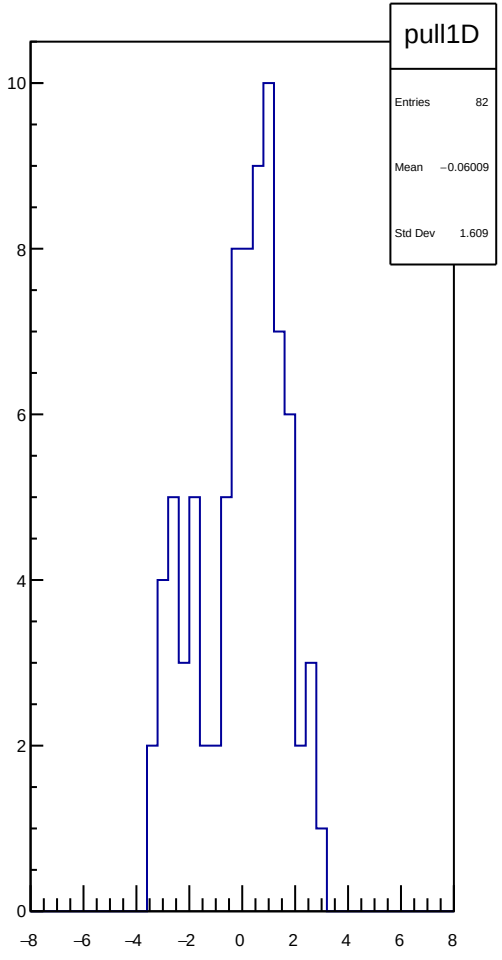

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 46.1 / 81
p0 −8.245 ± 1.261
pull
Entries 82
Mean 89.5
Std Dev 0

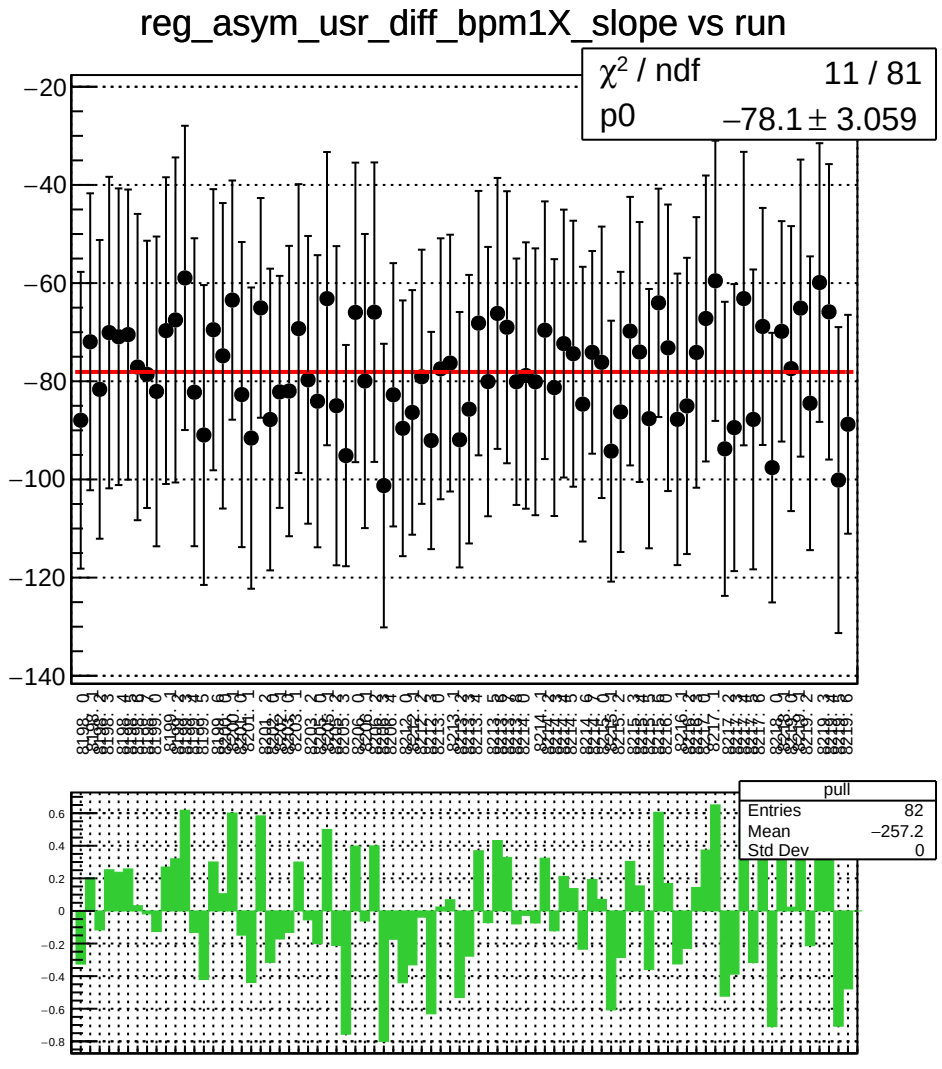

pull1D
Entries 82
Mean −0.0129
Std Dev 0.7497

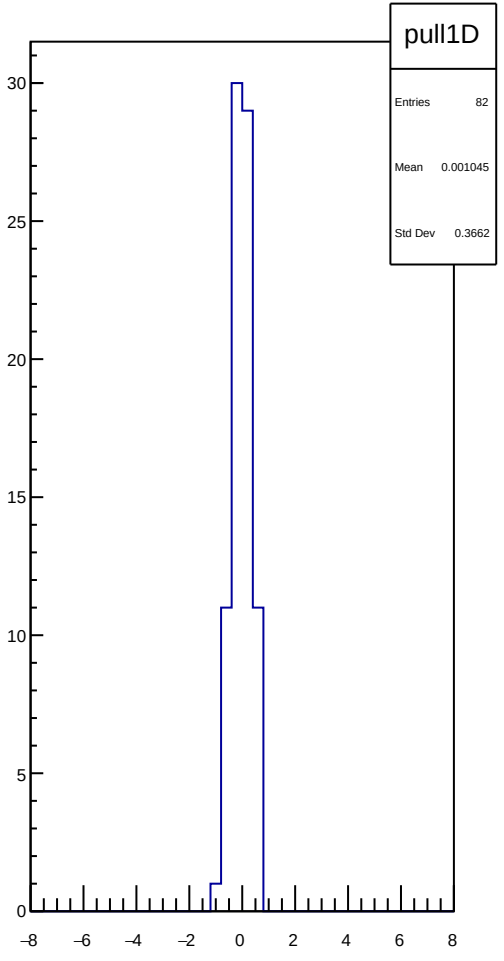

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 56.98 / 81
p0 11.05 ± 2.246
pull
Entries 82
Mean 115.1
Std Dev 18.28

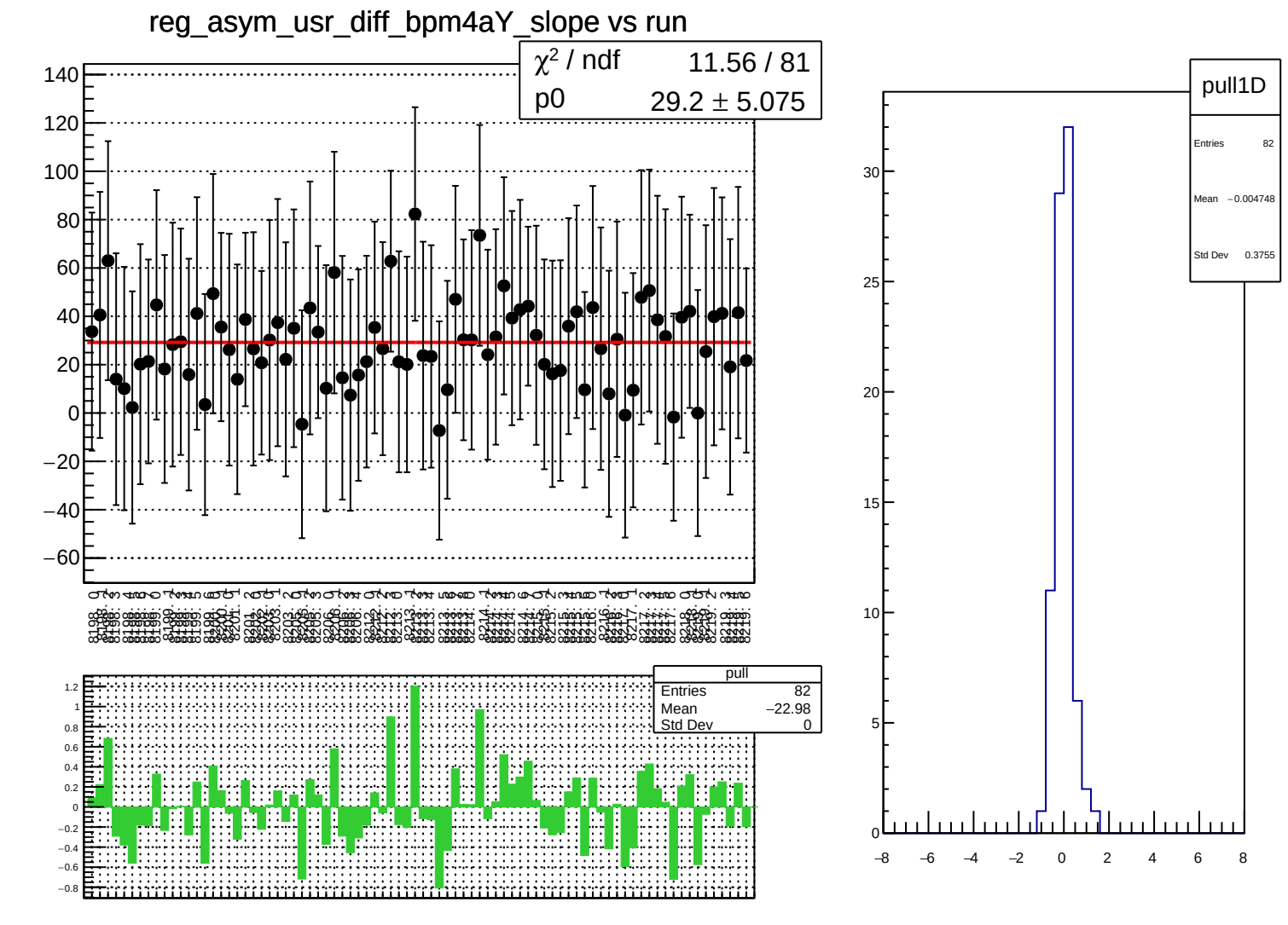

pull1D
Entries 82
Mean 0.005299
Std Dev 0.8336

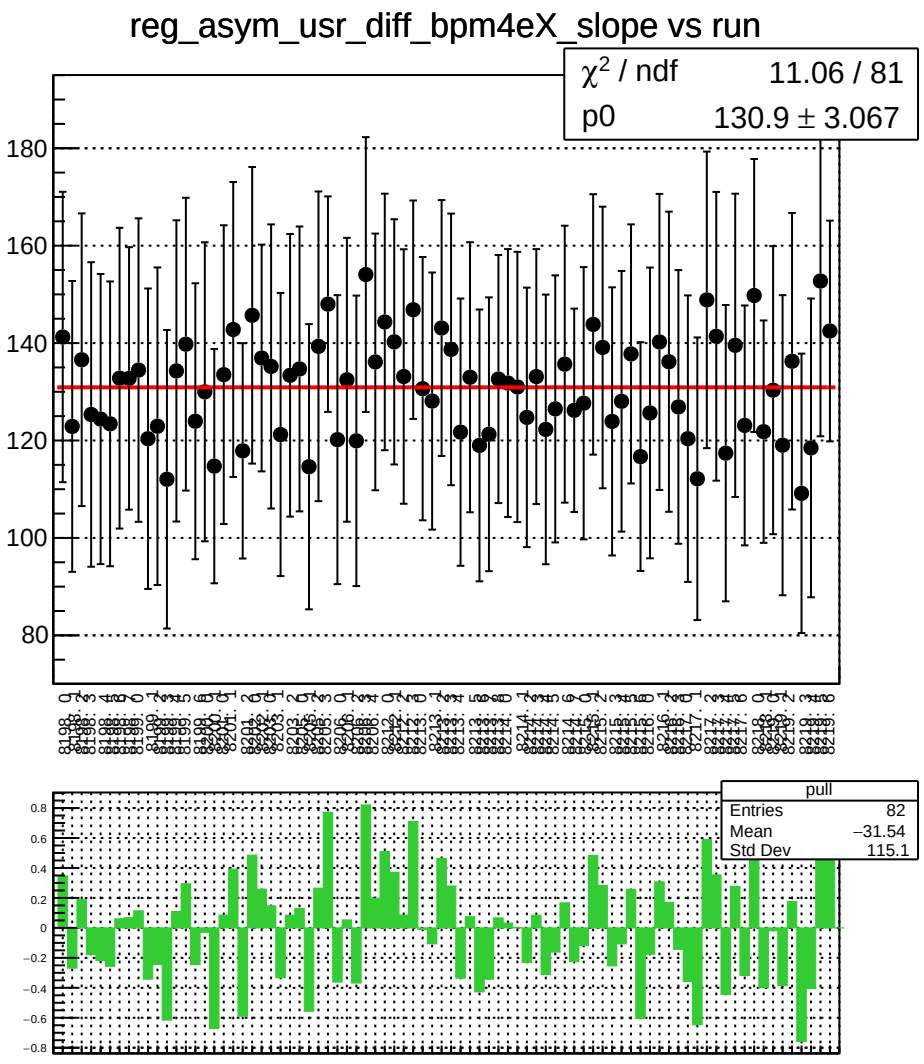

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 212.7 / 81
p0 −36.25 ± 0.1019
pull
Entries 82
Mean −370.9
Std Dev 0

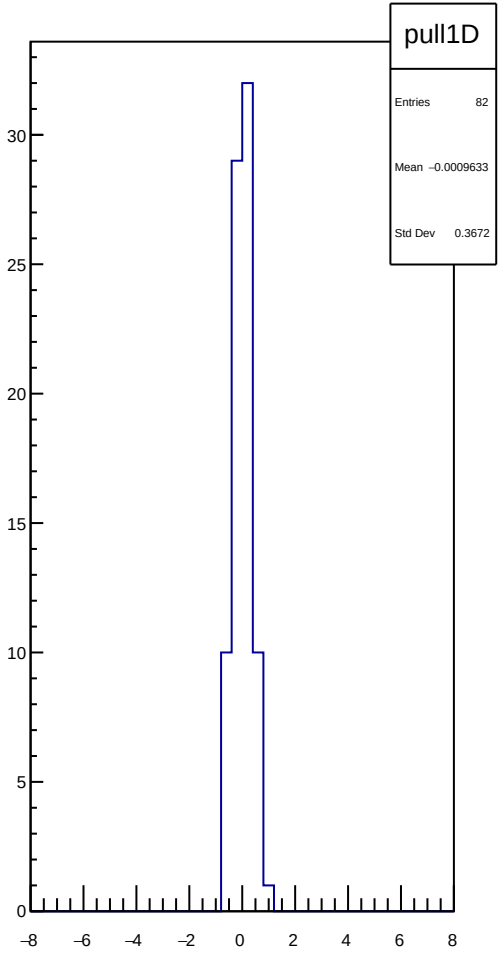

pull1D
Entries 82
Mean −0.06009
Std Dev 1.609

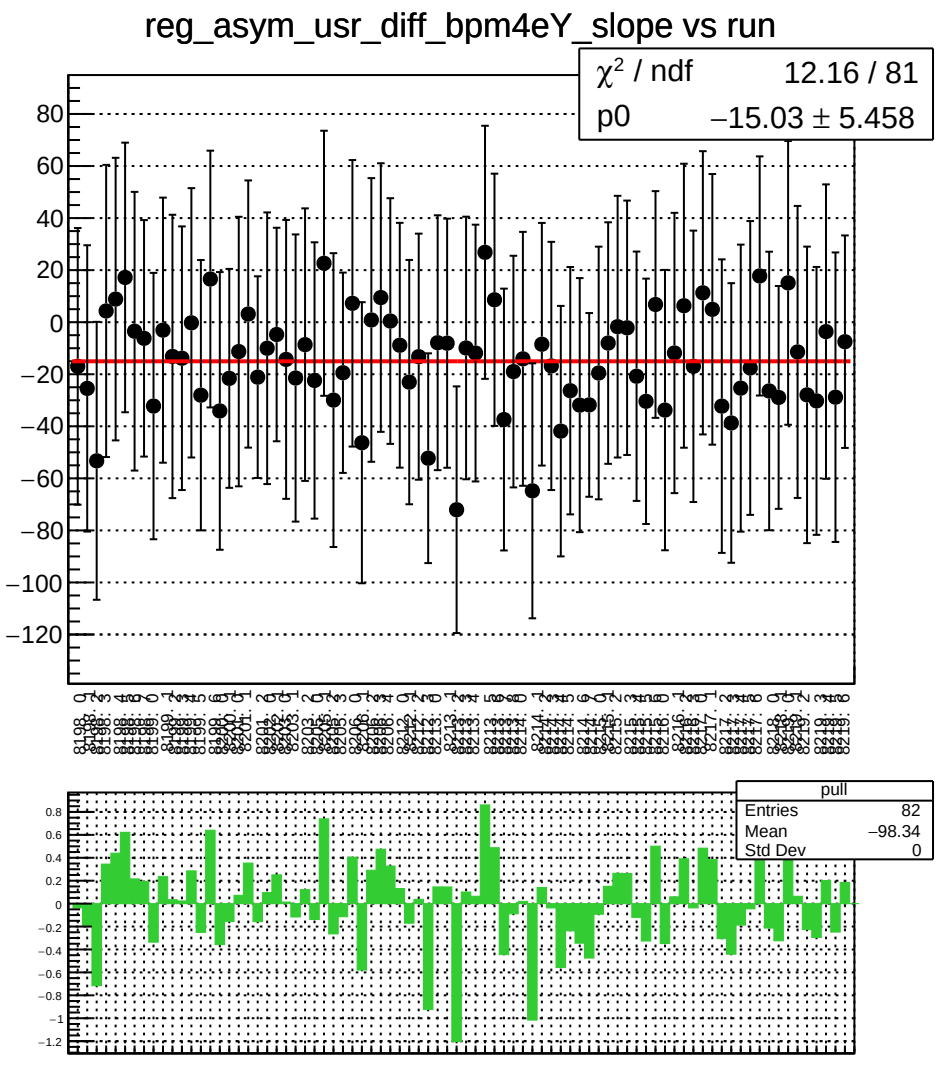

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 11 / 81
p0 −78.1 ± 3.059
pull
Entries 82
Mean −257.2
Std Dev 0

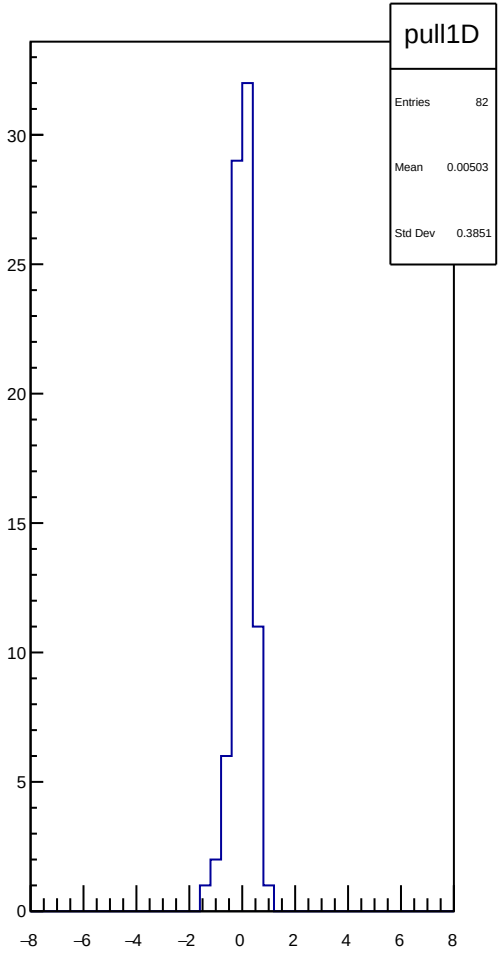

pull1D
Entries 82
Mean 0.001045
Std Dev 0.3662

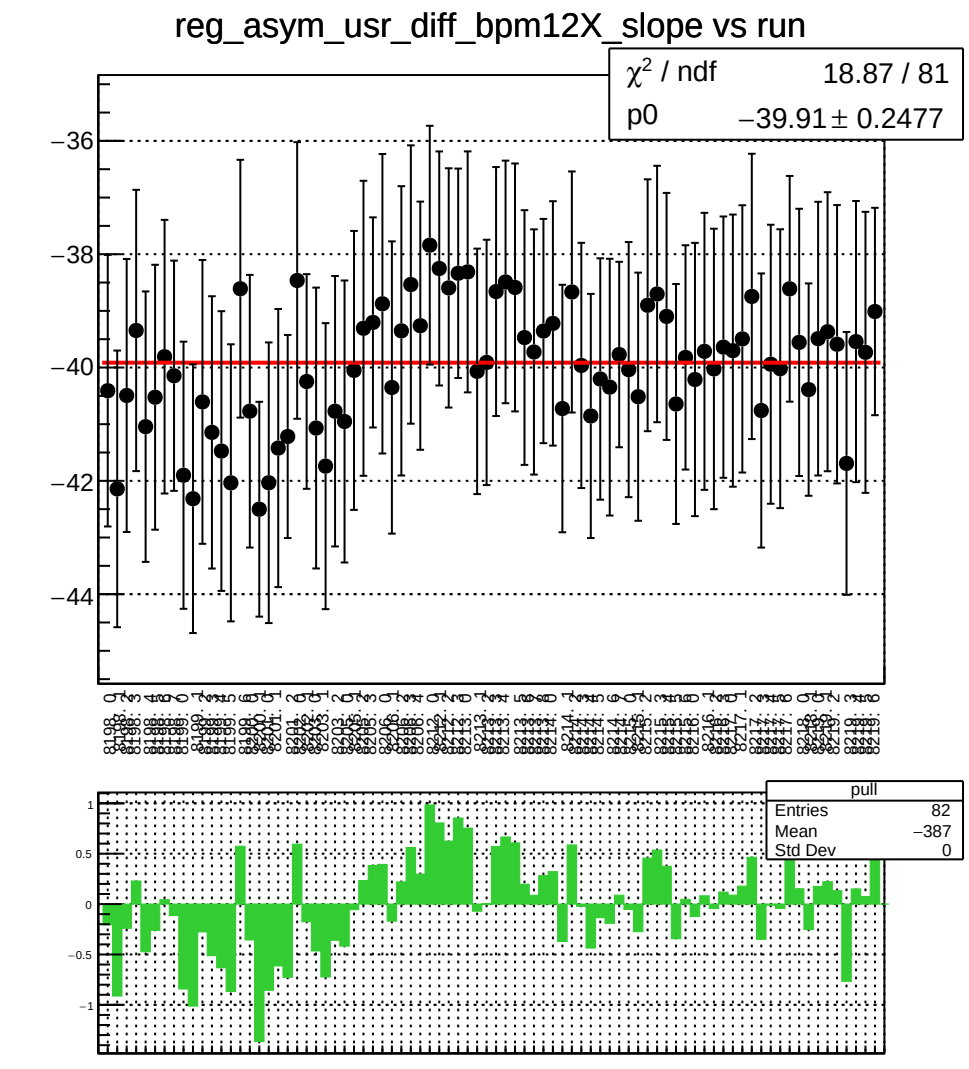

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 11.56 / 81
p0 29.2 ± 5.075
pull
Entries 82
Mean −22.98
Std Dev 0
pull1D
Entries 82
Mean −0.004748
Std Dev 0.3755

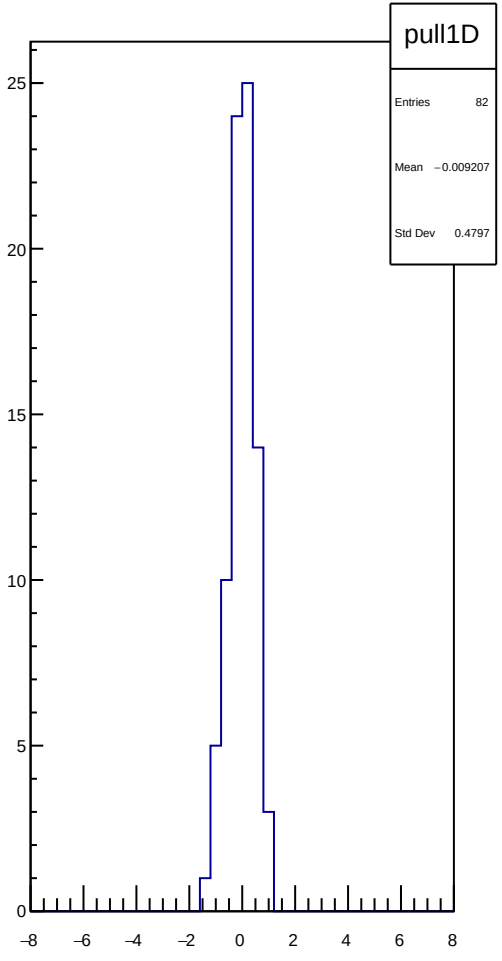

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 11.06 / 81
p0 130.9 ± 3.067
pull
Entries 82
Mean −31.54
Std Dev 115.1

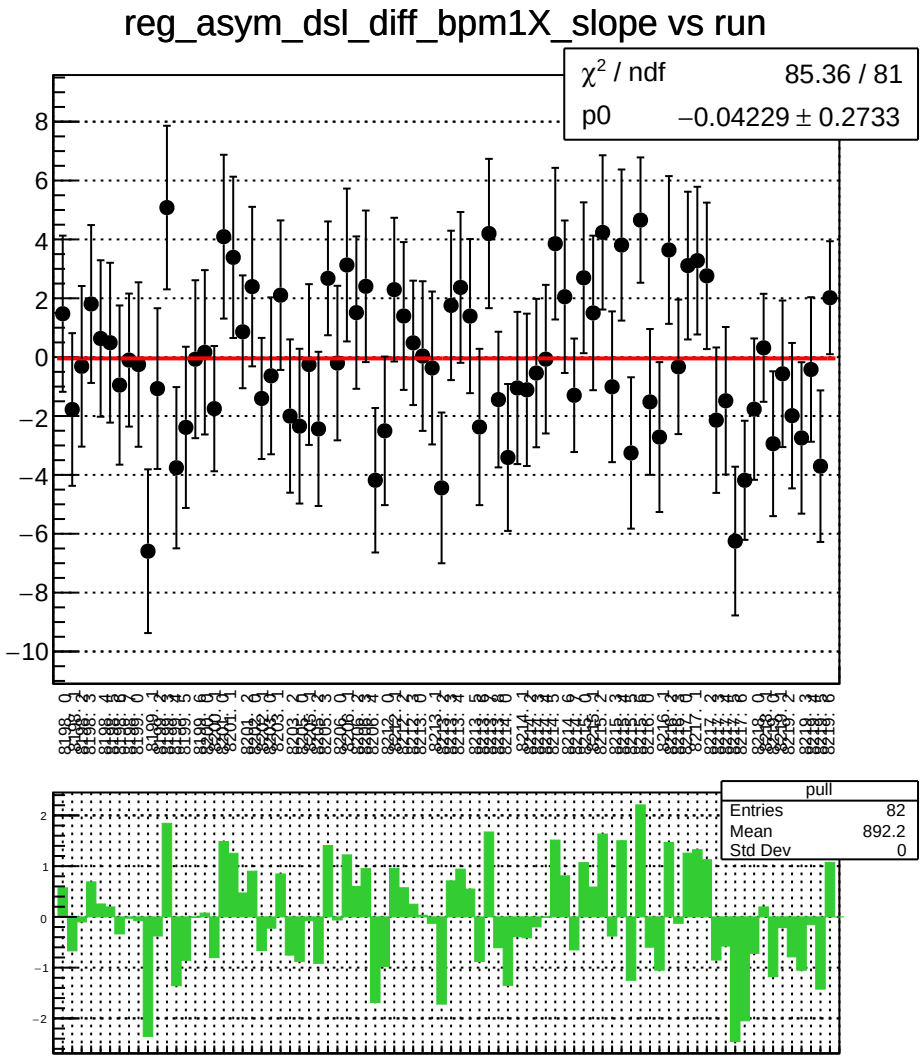

pull1D
Entries 82
Mean −0.0009633
Std Dev 0.3672

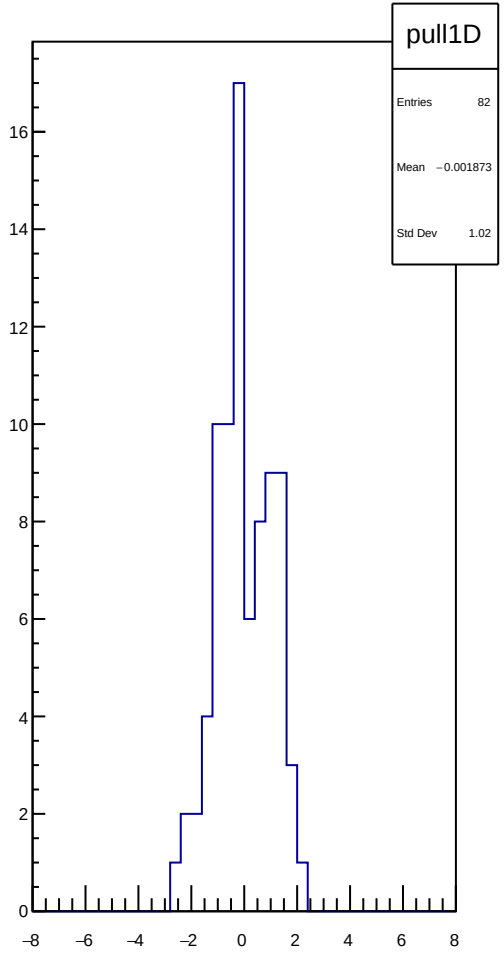

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 12.16 / 81
p0 −15.03 ± 5.458
pull
Entries 82
Mean −98.34
Std Dev 0

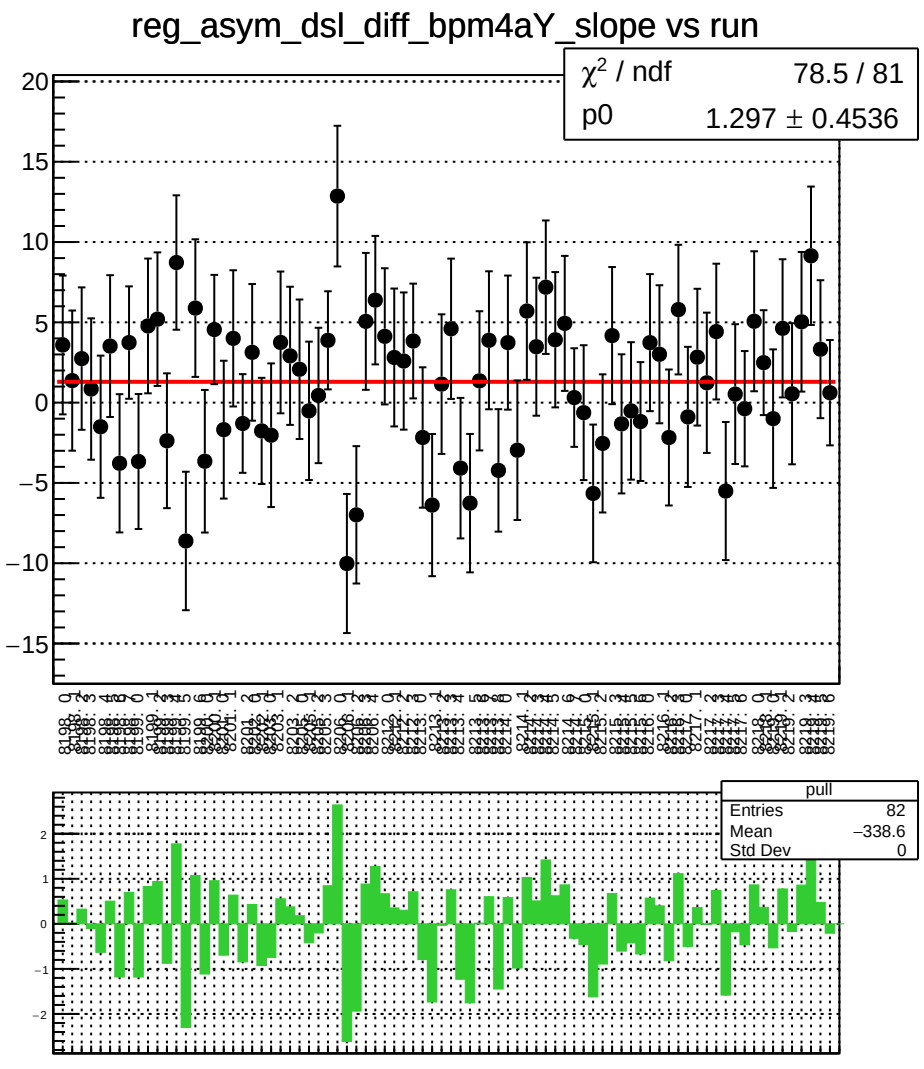

pull1D
Entries 82
Mean 0.00503
Std Dev 0.3851

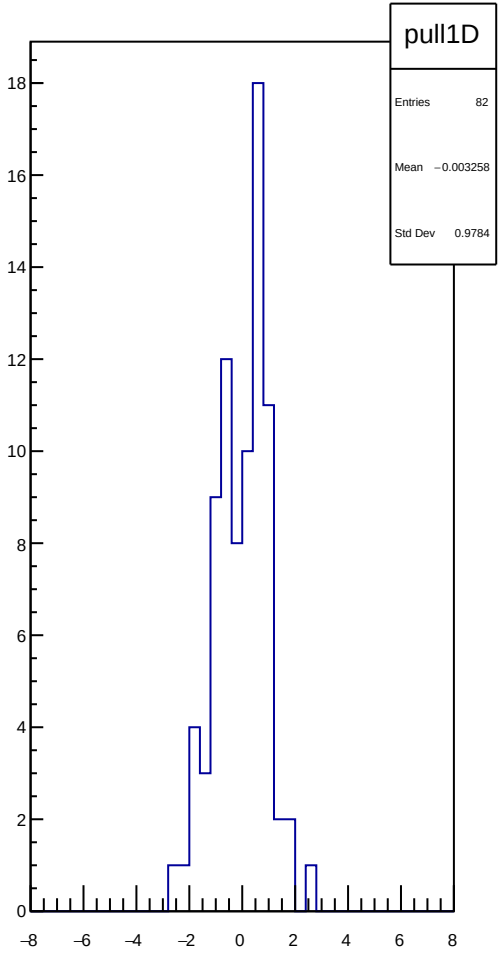

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 18.87 / 81
p0 −39.91 ± 0.2477
pull
Entries 82
Mean −387
Std Dev 0

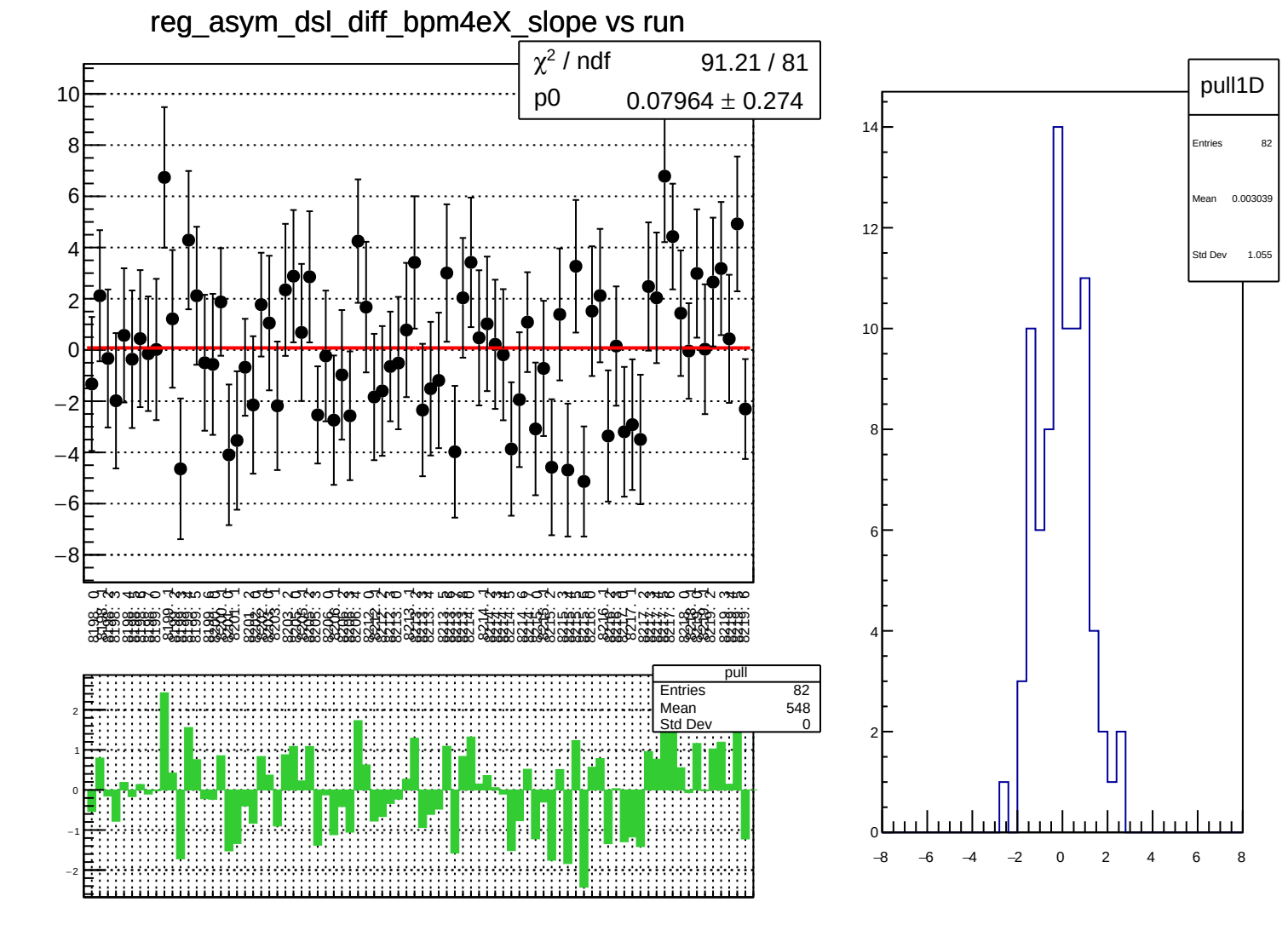

pull1D
Entries 82
Mean −0.009207
Std Dev 0.4797

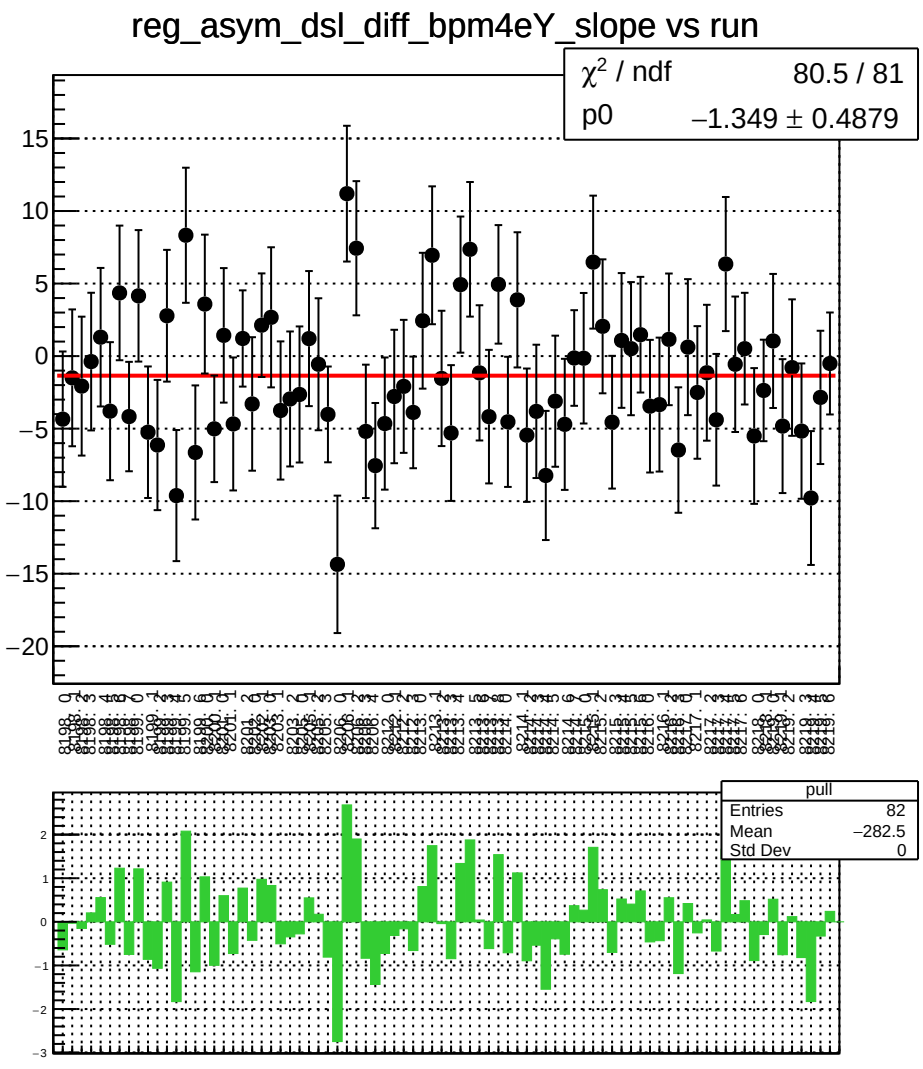

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 85.36 / 81
p0 −0.04229 ± 0.2733
pull
Entries 82
Mean 892.2
Std Dev 0

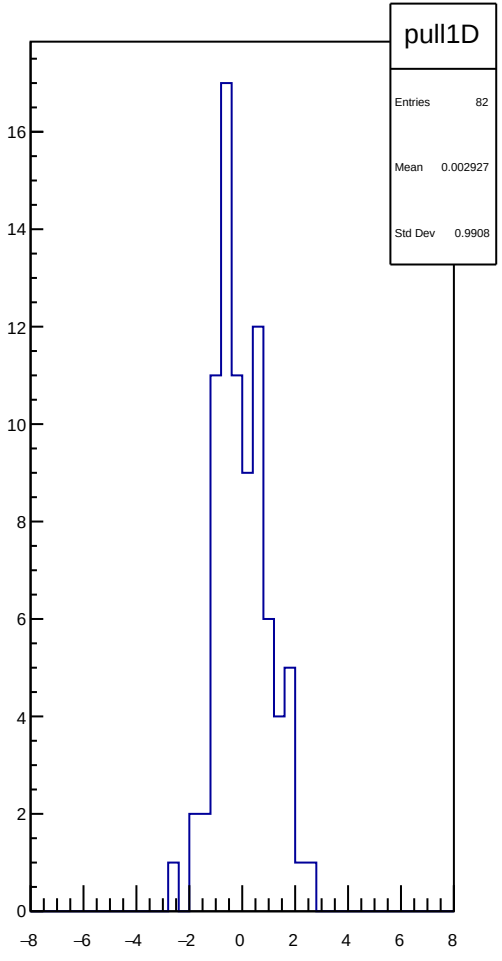

pull1D
Entries 82
Mean −0.001873
Std Dev 1.02

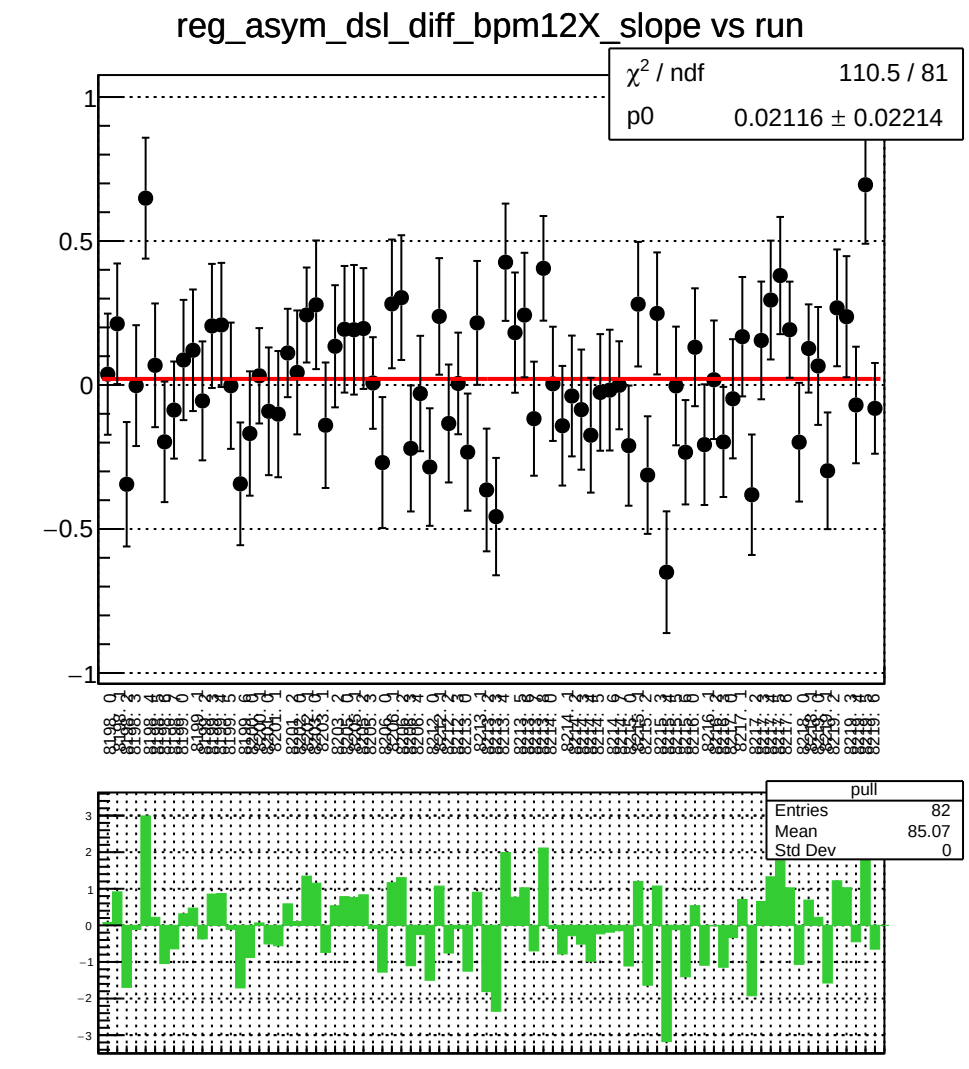

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 78.5 / 81
p0 1.297 ± 0.4536
pull
Entries 82
Mean −338.6
Std Dev 0

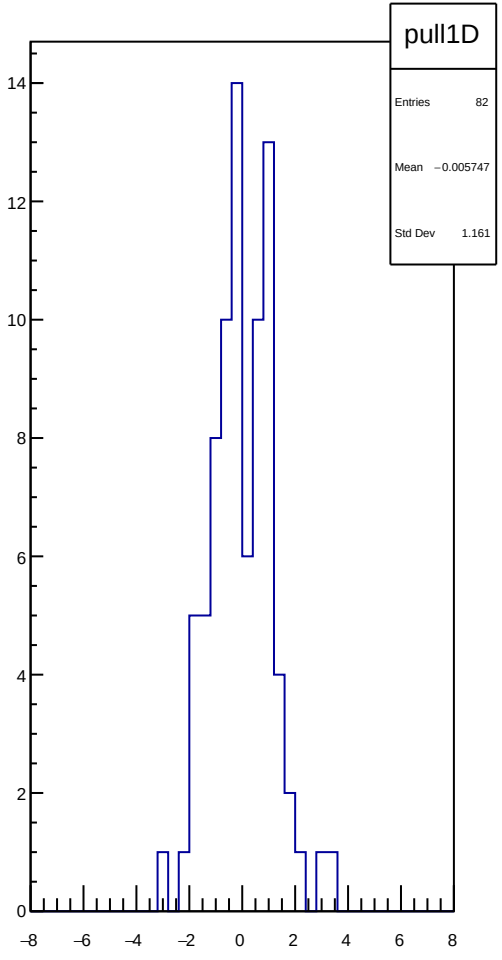

pull1D
Entries 82
Mean −0.003258
Std Dev 0.9784

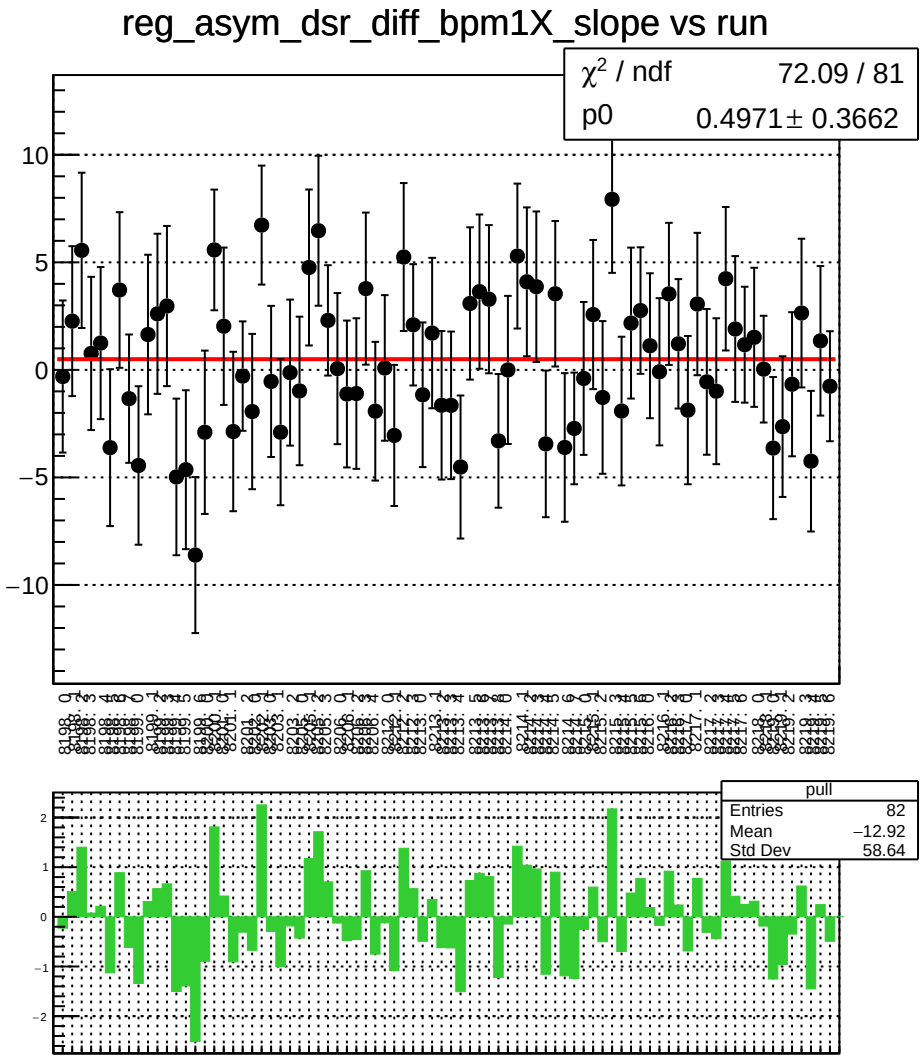

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 91.21 / 81
p0 0.07964 ± 0.274
pull
Entries 82
Mean 548
Std Dev 0
pull1D
Entries 82
Mean 0.003039
Std Dev 1.055

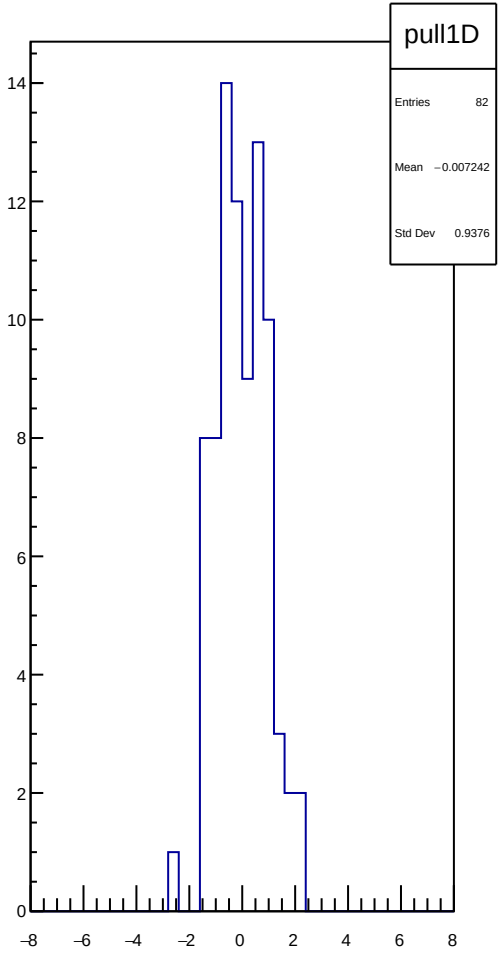

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 80.5 / 81
p0 −1.349 ± 0.4879
pull
Entries 82
Mean −282.5
Std Dev 0

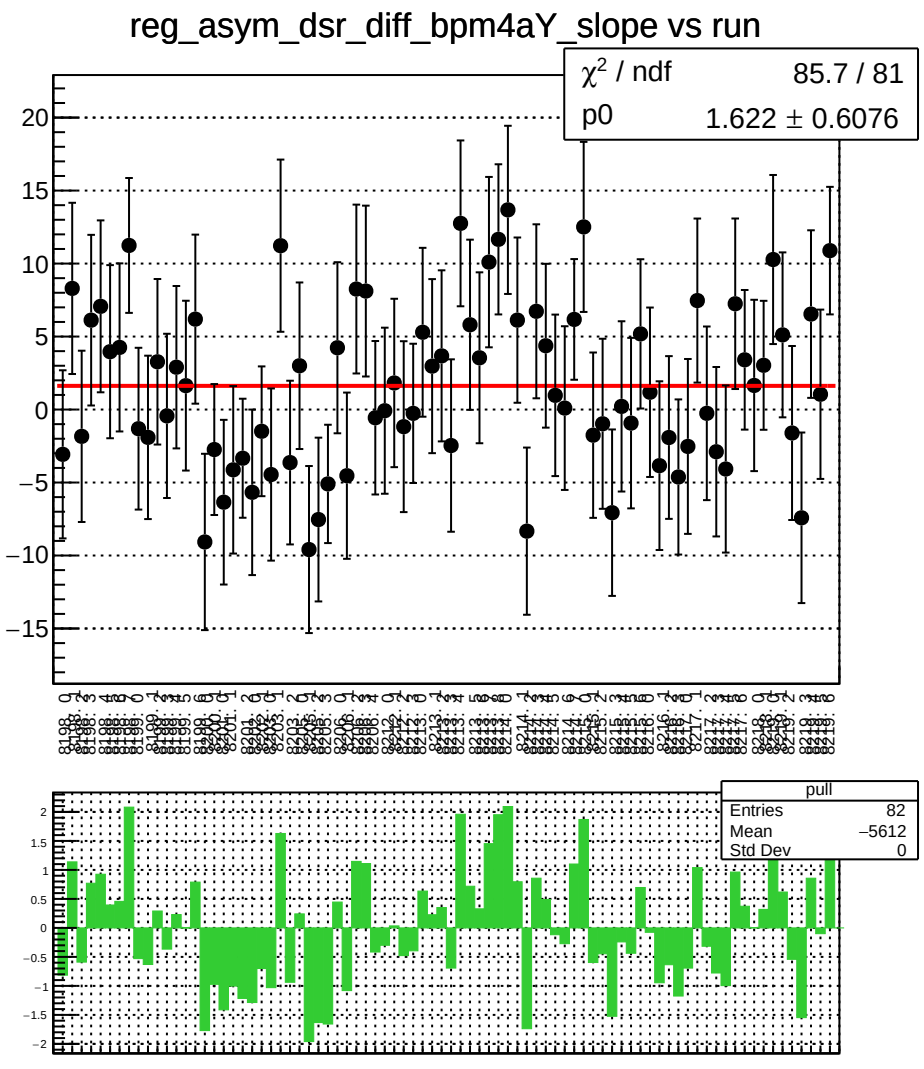

pull1D
Entries 82
Mean 0.002927
Std Dev 0.9908

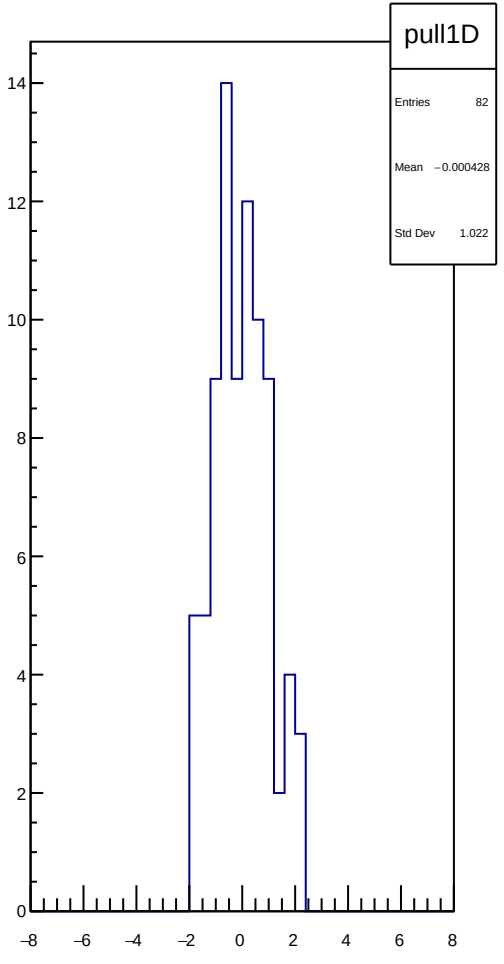

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 110.5 / 81
p0 0.02116 ± 0.02214
pull
Entries 82
Mean 85.07
Std Dev 0

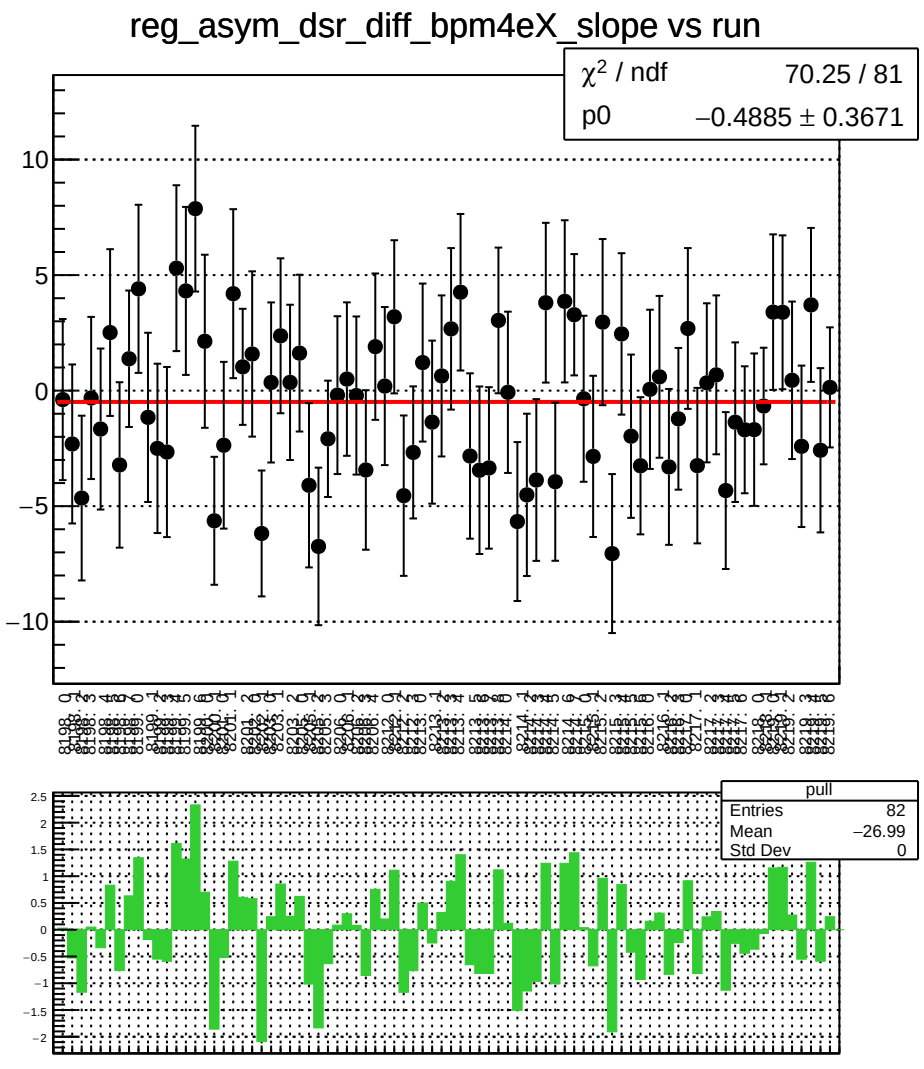

pull1D
Entries 82
Mean −0.005747
Std Dev 1.161

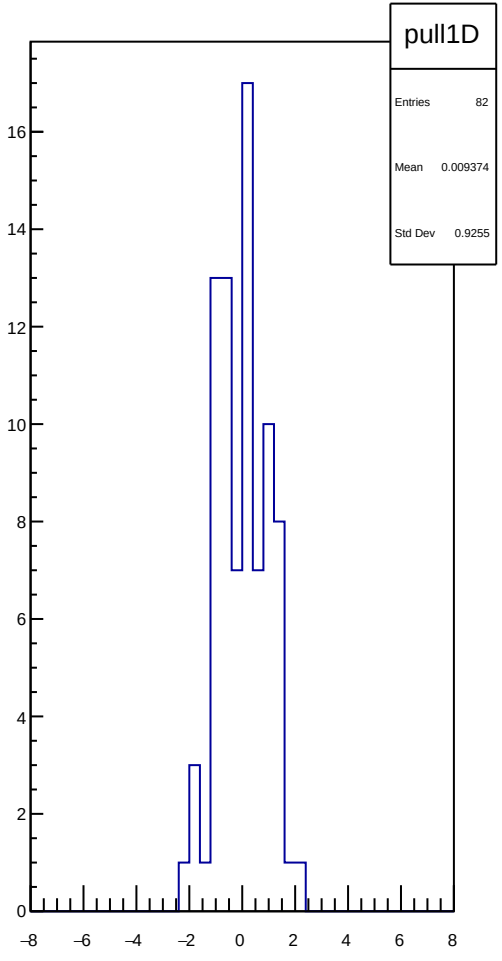

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 72.09 / 81
p0 0.4971± 0.3662
pull
Entries 82
Mean −12.92
Std Dev 58.64

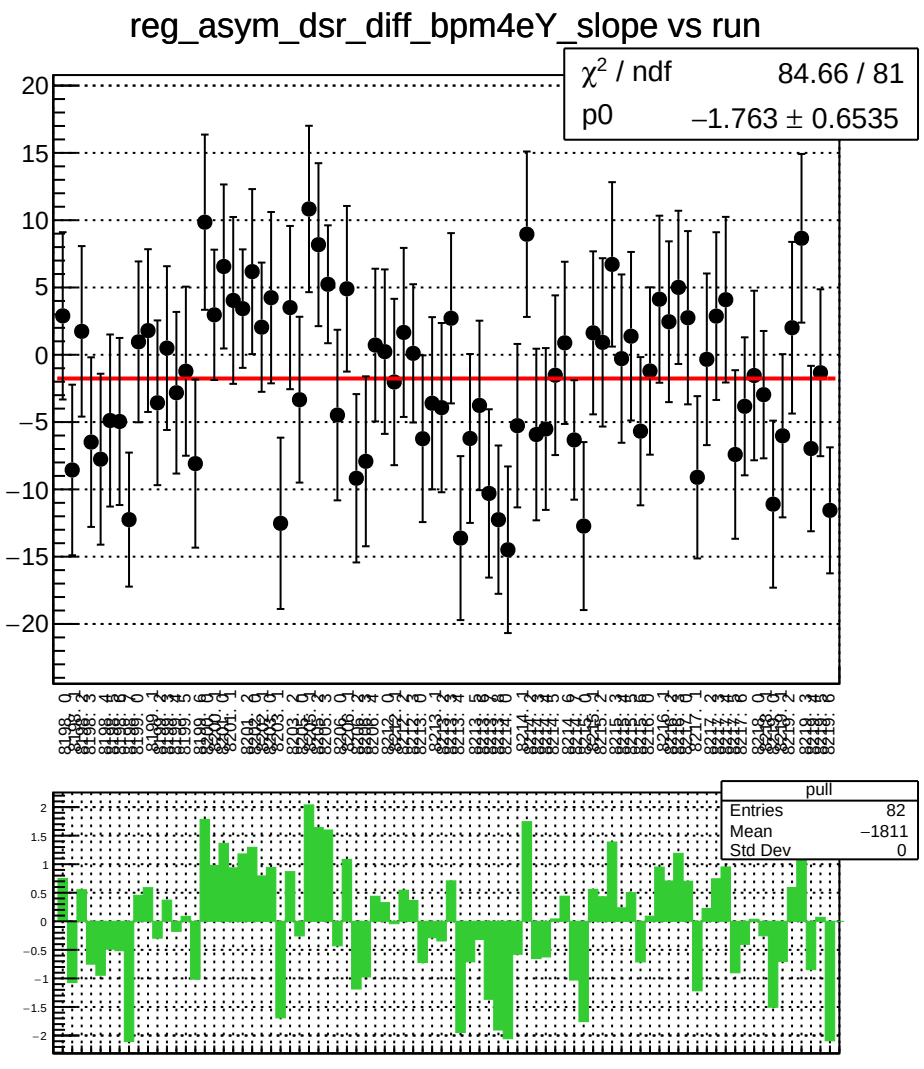

pull1D
Entries 82
Mean −0.007242
Std Dev 0.9376

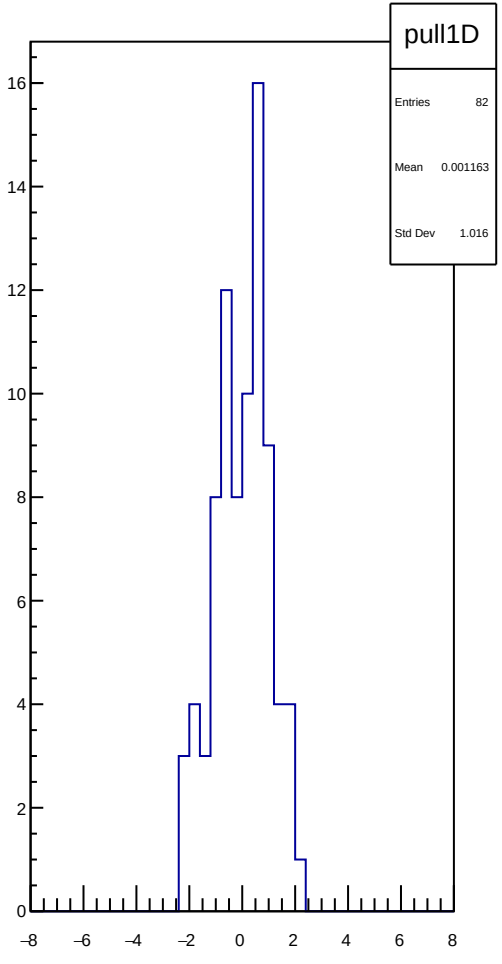

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 85.7 / 81
p0 1.622 ± 0.6076
pull
Entries 82
Mean −5612
Std Dev 0

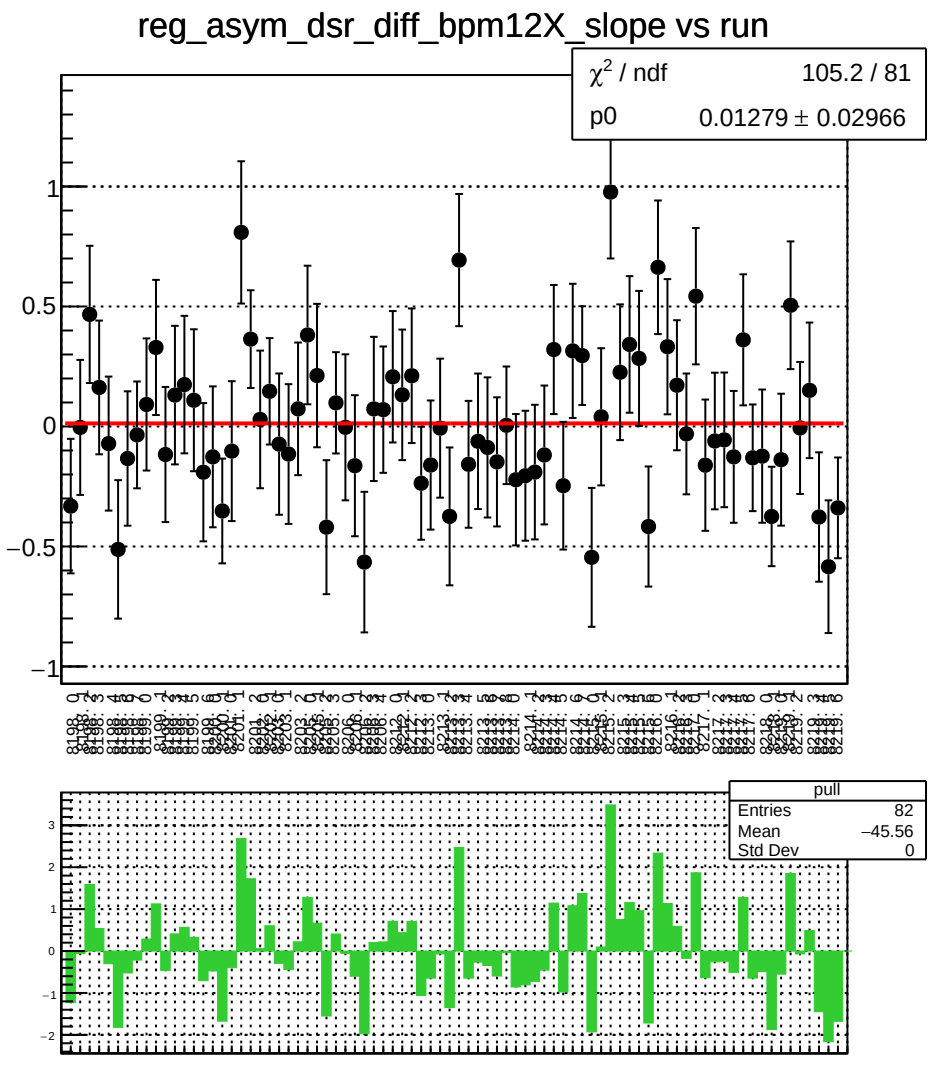

pull1D
Entries 82
Mean −0.000428
Std Dev 1.022

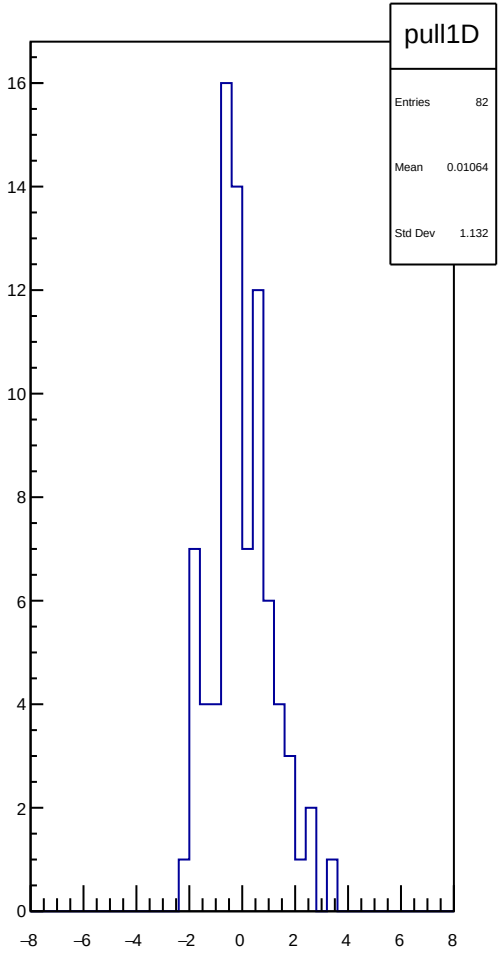

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 70.25 / 81
p0 −0.4885 ± 0.3671
pull
Entries 82
Mean −26.99
Std Dev 0

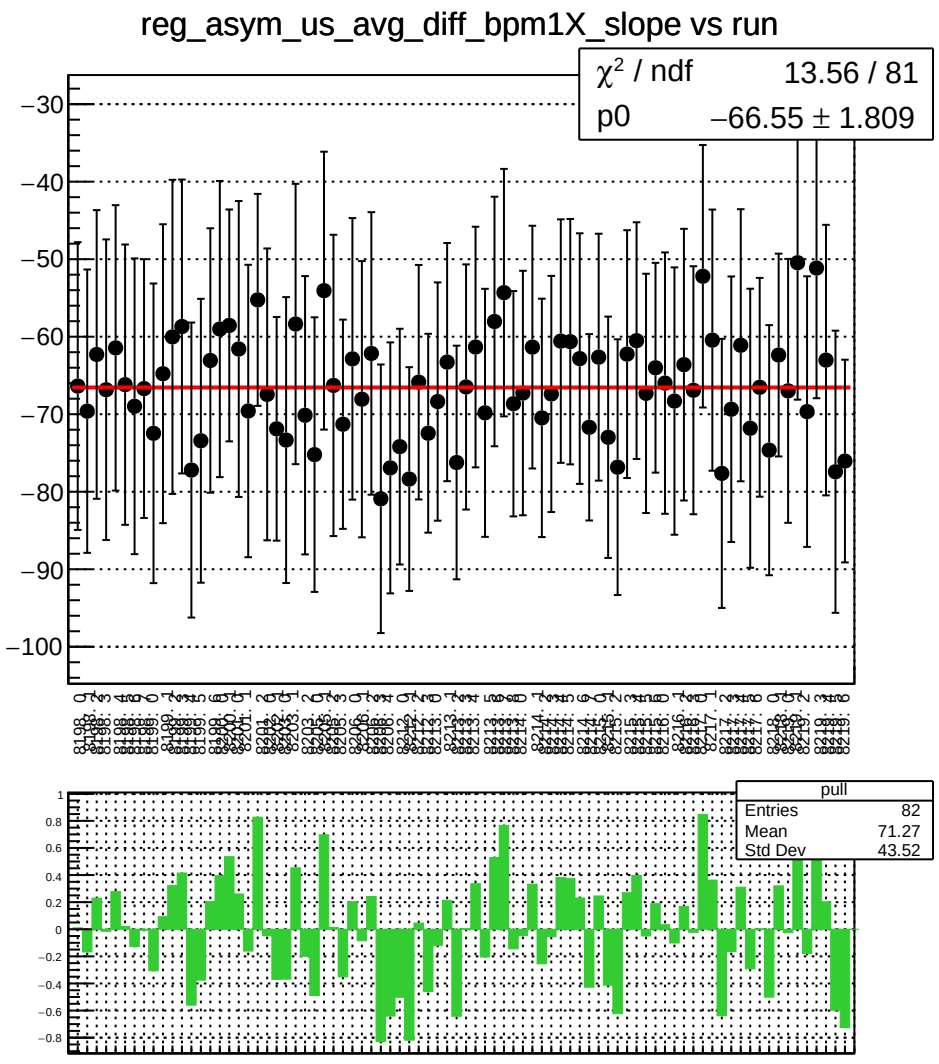

pull1D
Entries 82
Mean 0.009374
Std Dev 0.9255

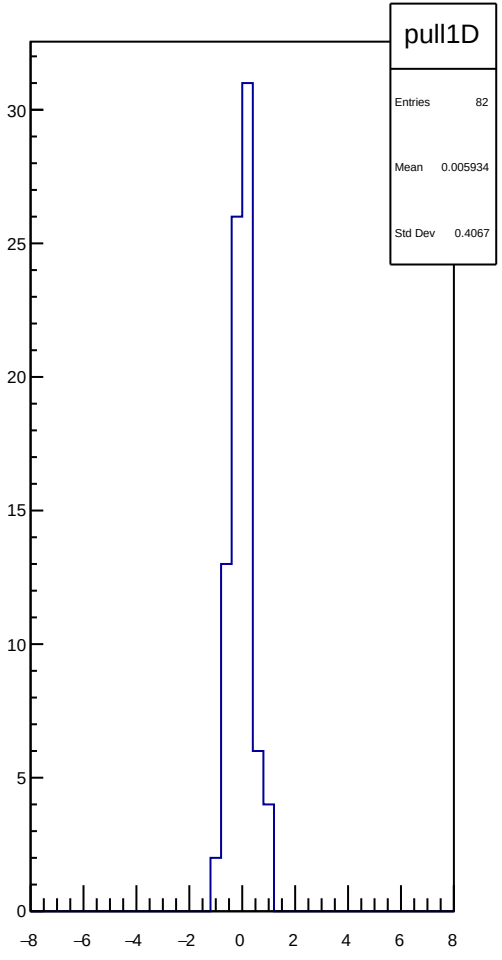

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 84.66 / 81
p0 −1.763 ± 0.6535
pull
Entries 82
Mean −1811
Std Dev 0

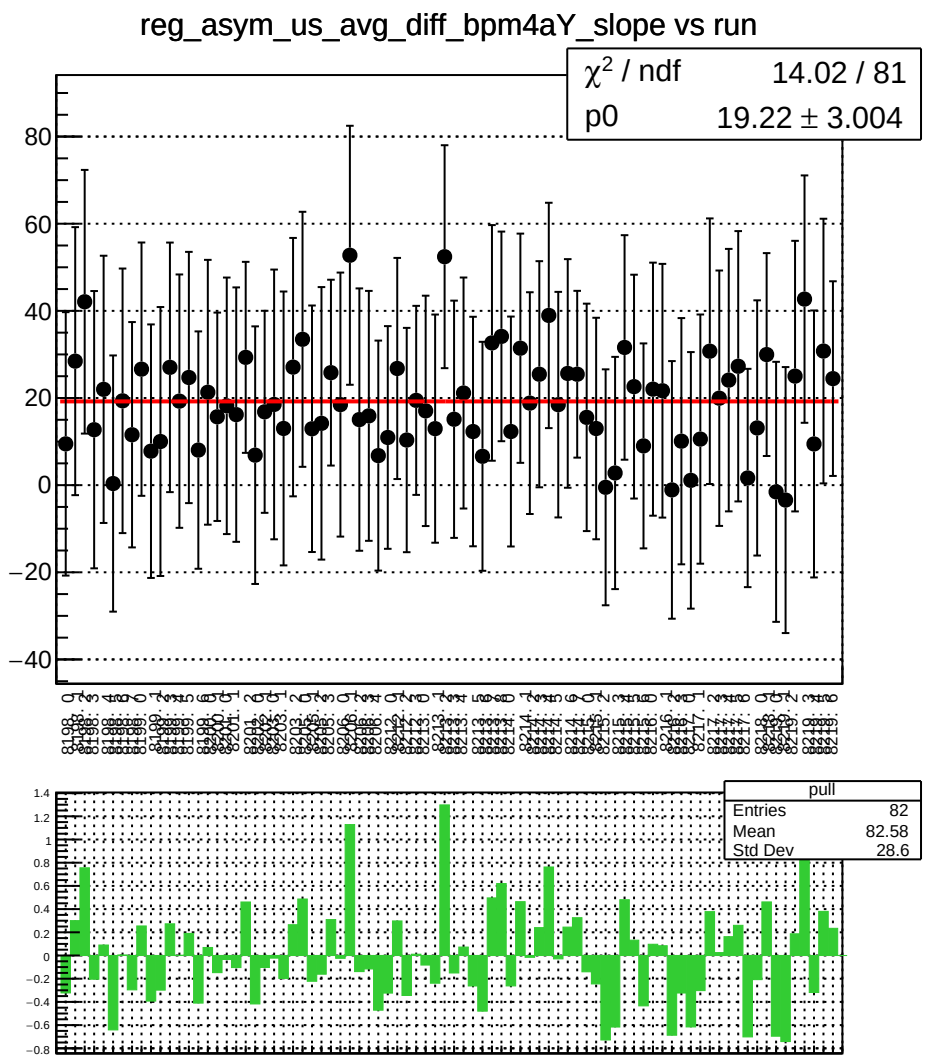

pull1D
Entries 82
Mean 0.001163
Std Dev 1.016

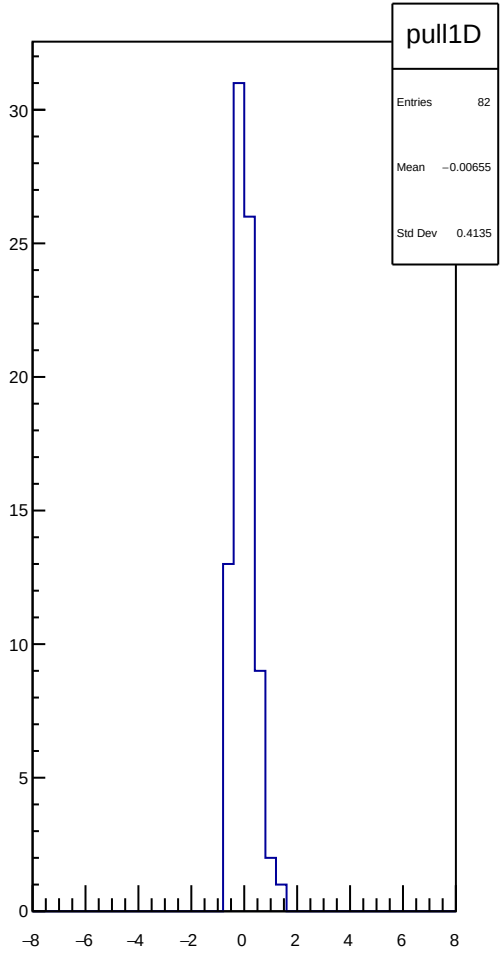

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 105.2 / 81
p0 0.01279 ± 0.02966
pull
Entries 82
Mean −45.56
Std Dev 0

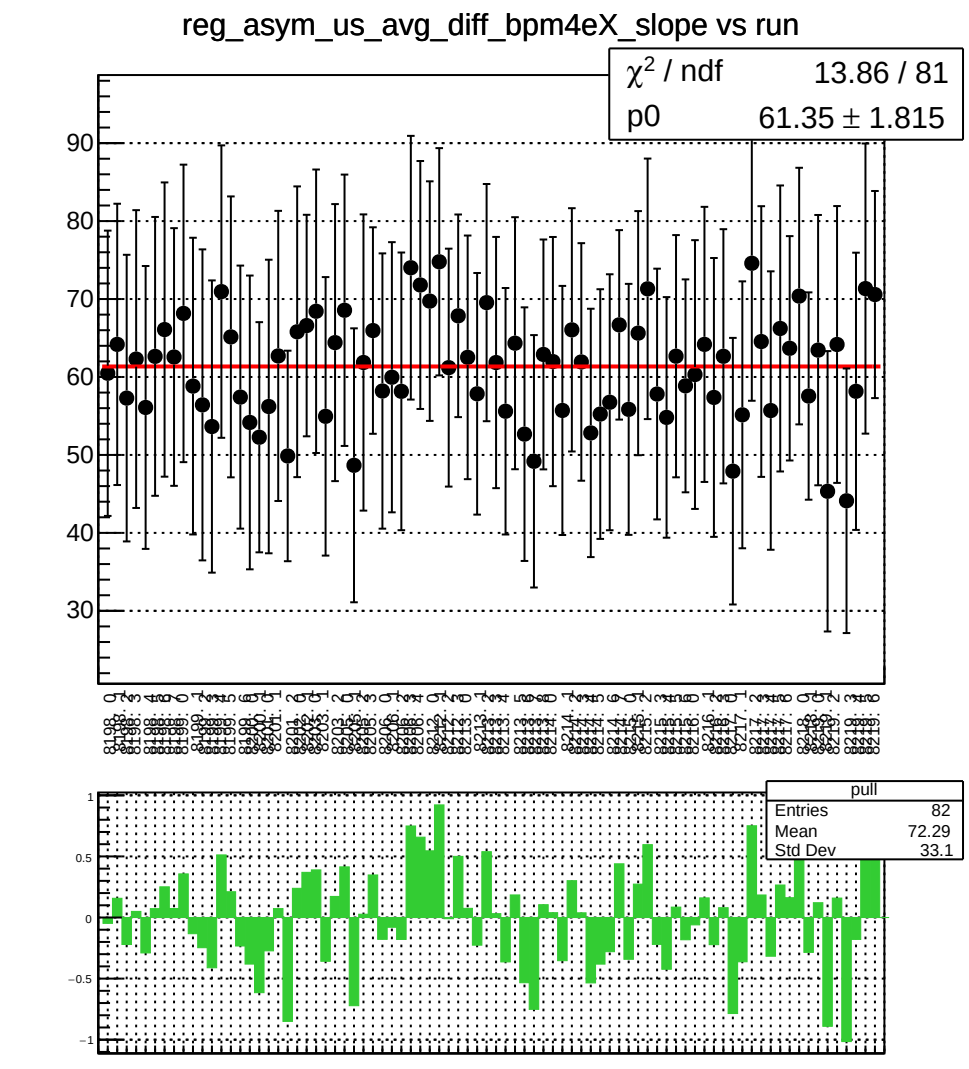

pull1D
Entries 82
Mean 0.01064
Std Dev 1.132

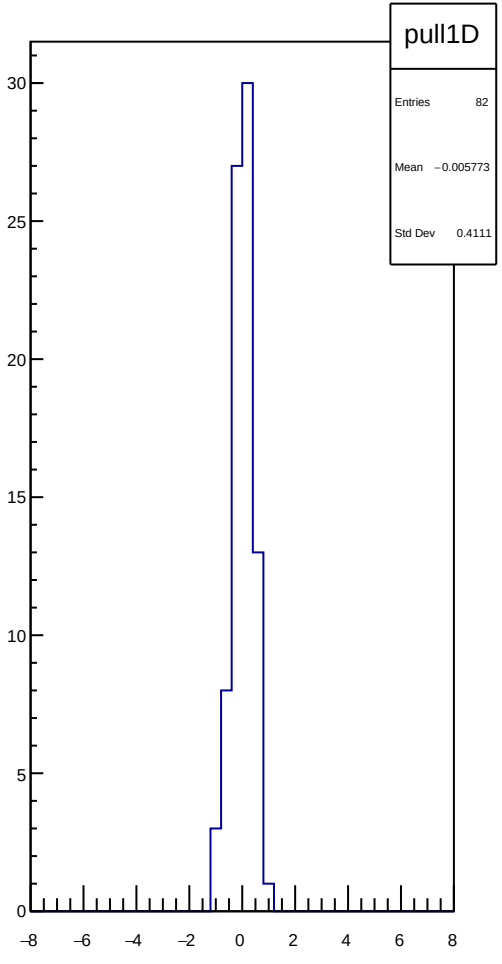

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 13.56 / 81
p0 −66.55 ± 1.809
pull
Entries 82
Mean 71.27
Std Dev 43.52

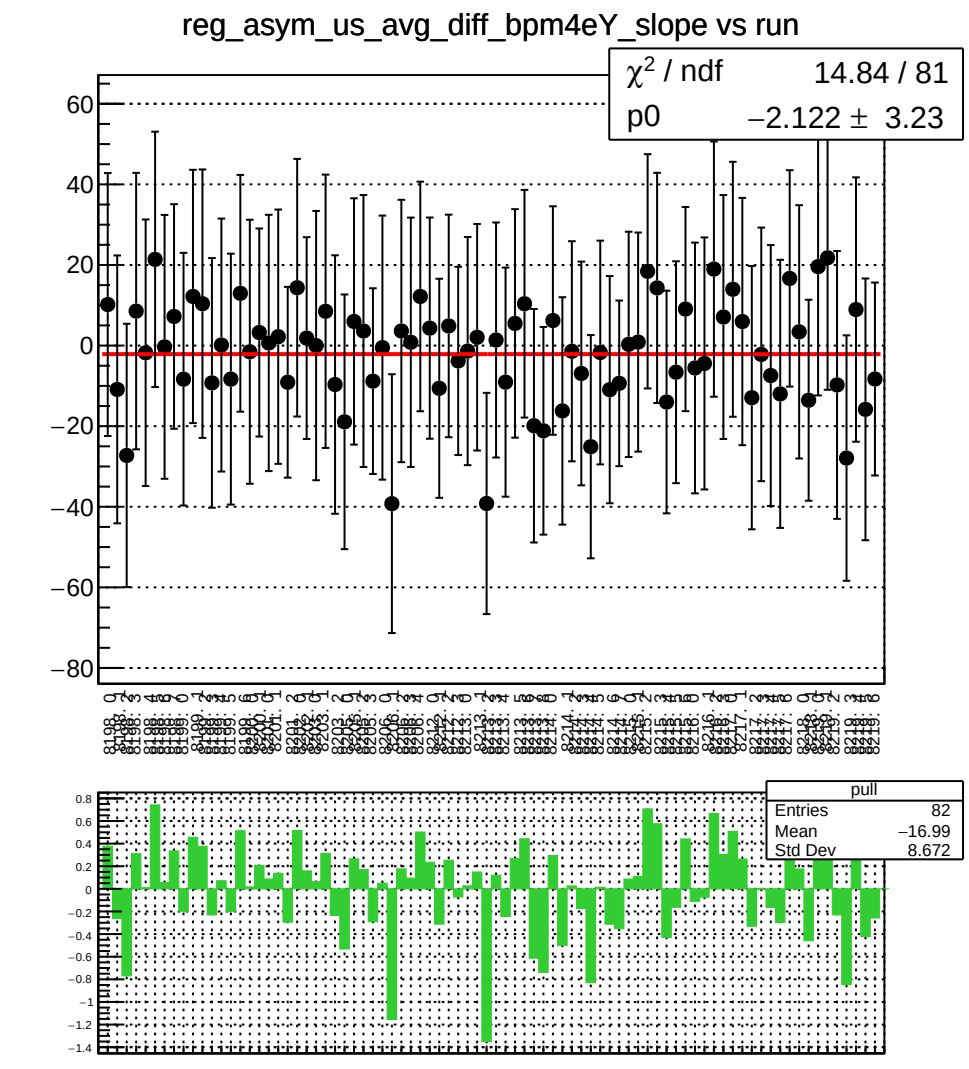

pull1D
Entries 82
Mean 0.005934
Std Dev 0.4067

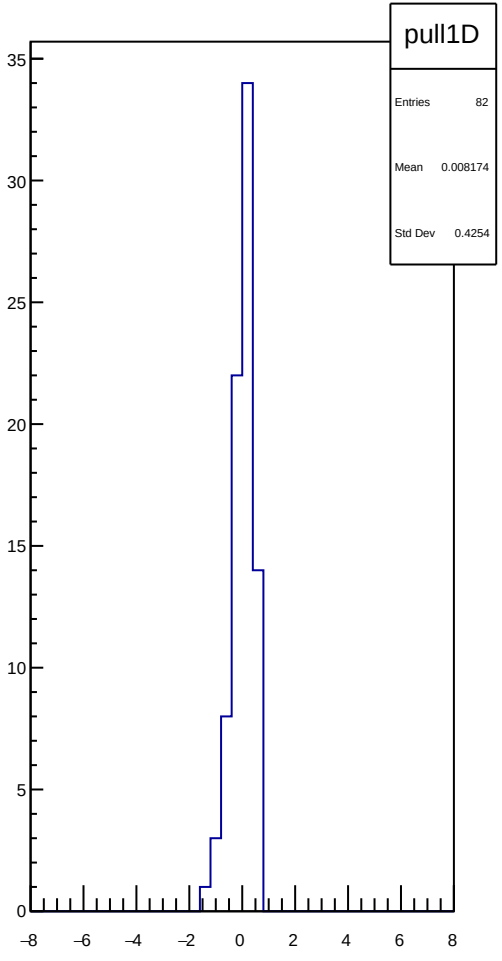

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.02 / 81
p0 19.22 ± 3.004
pull
Entries 82
Mean 82.58
Std Dev 28.6

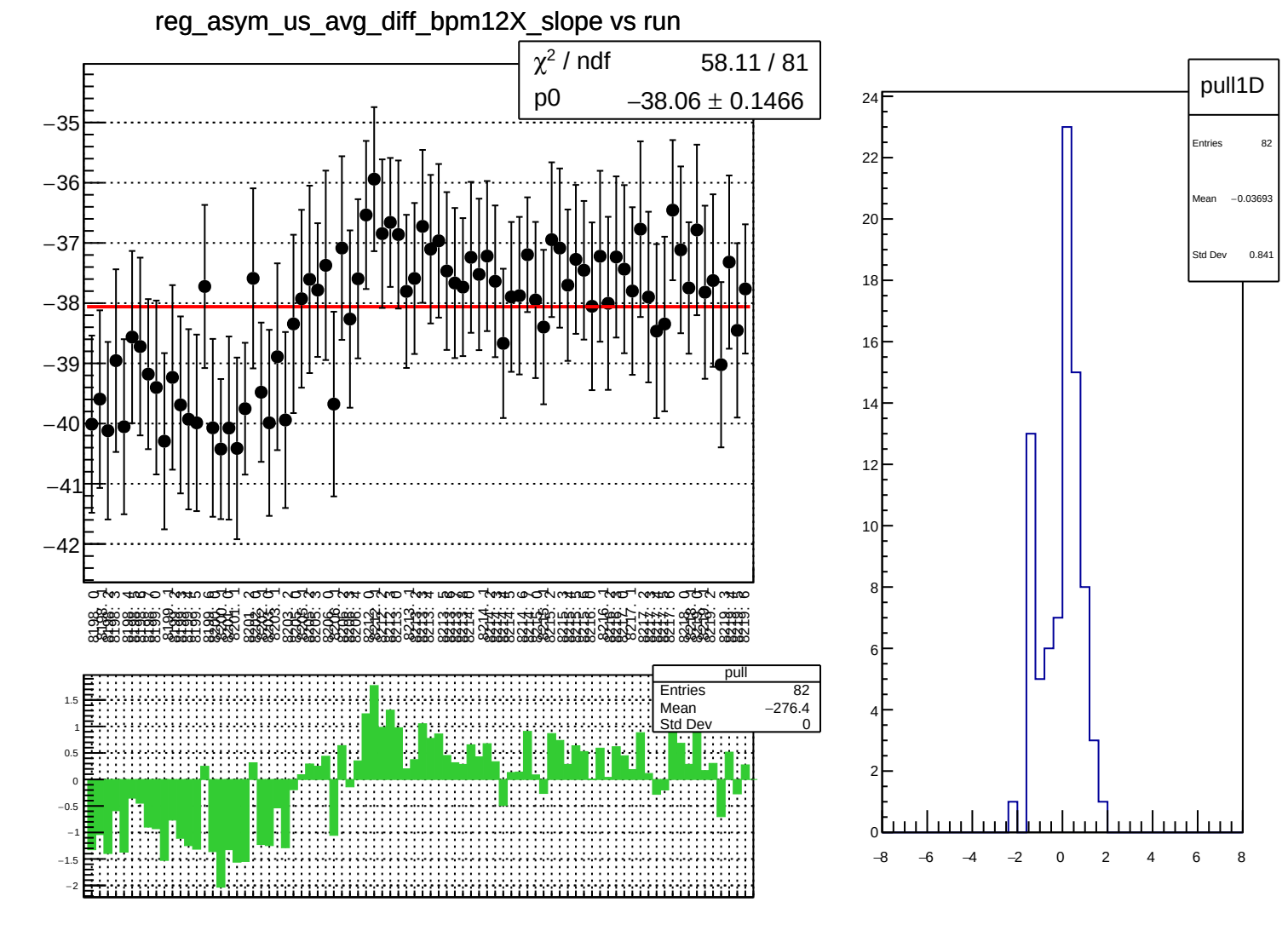

pull1D
Entries 82
Mean −0.00655
Std Dev 0.4135

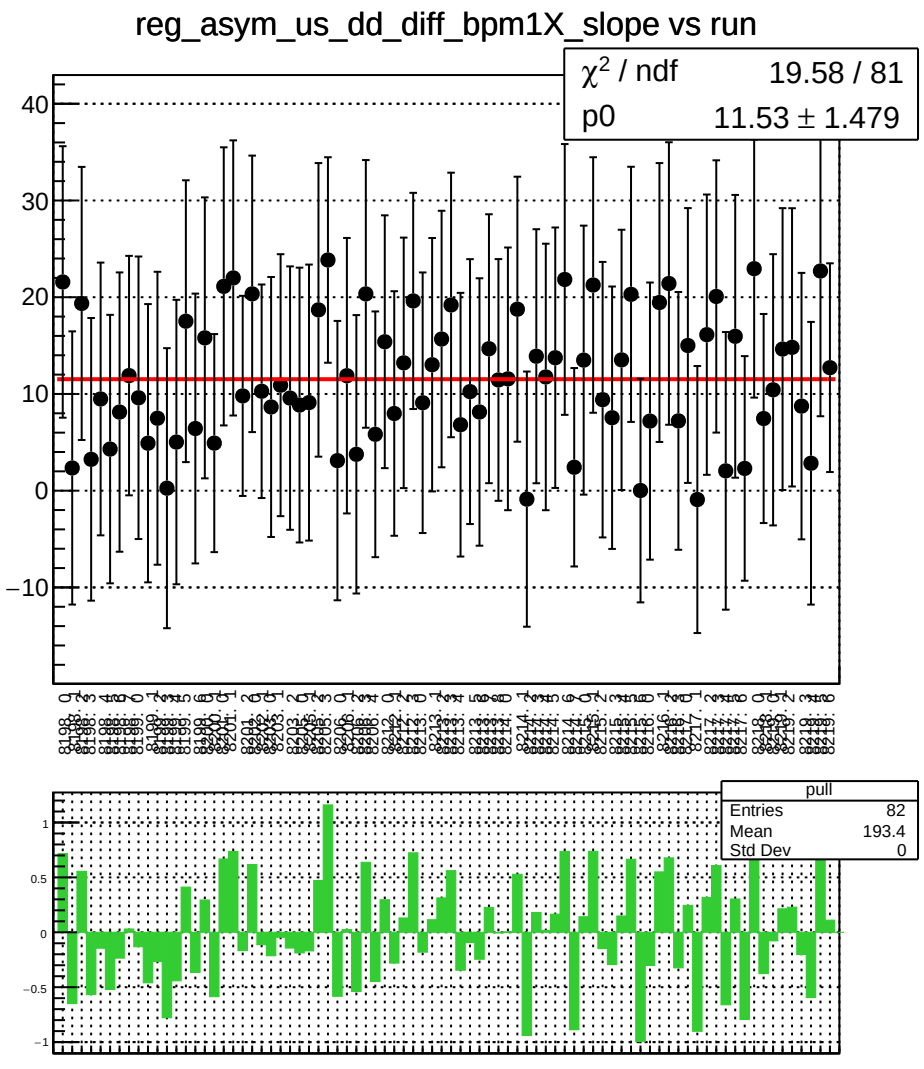

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.86 / 81
p0 61.35 ± 1.815
pull
Entries 82
Mean 72.29
Std Dev 33.1

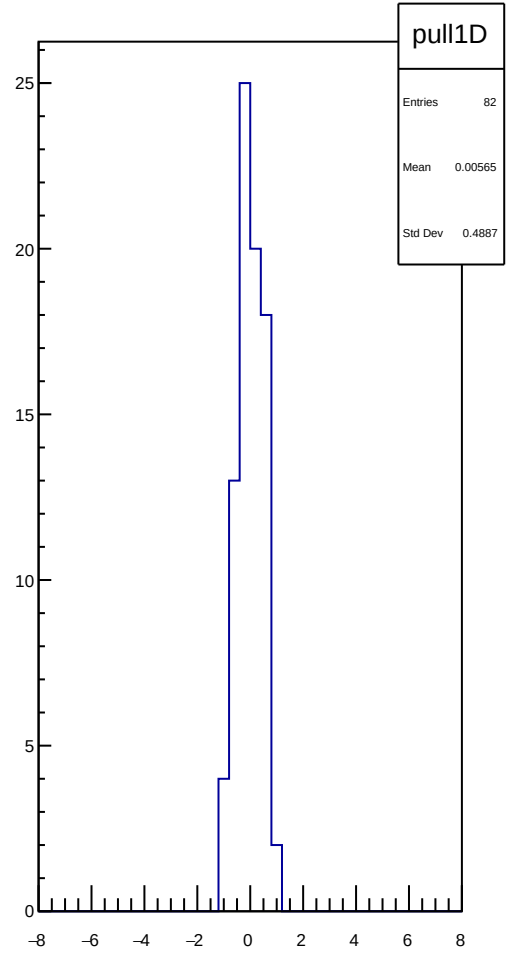

pull1D
Entries 82
Mean −0.005773
Std Dev 0.4111

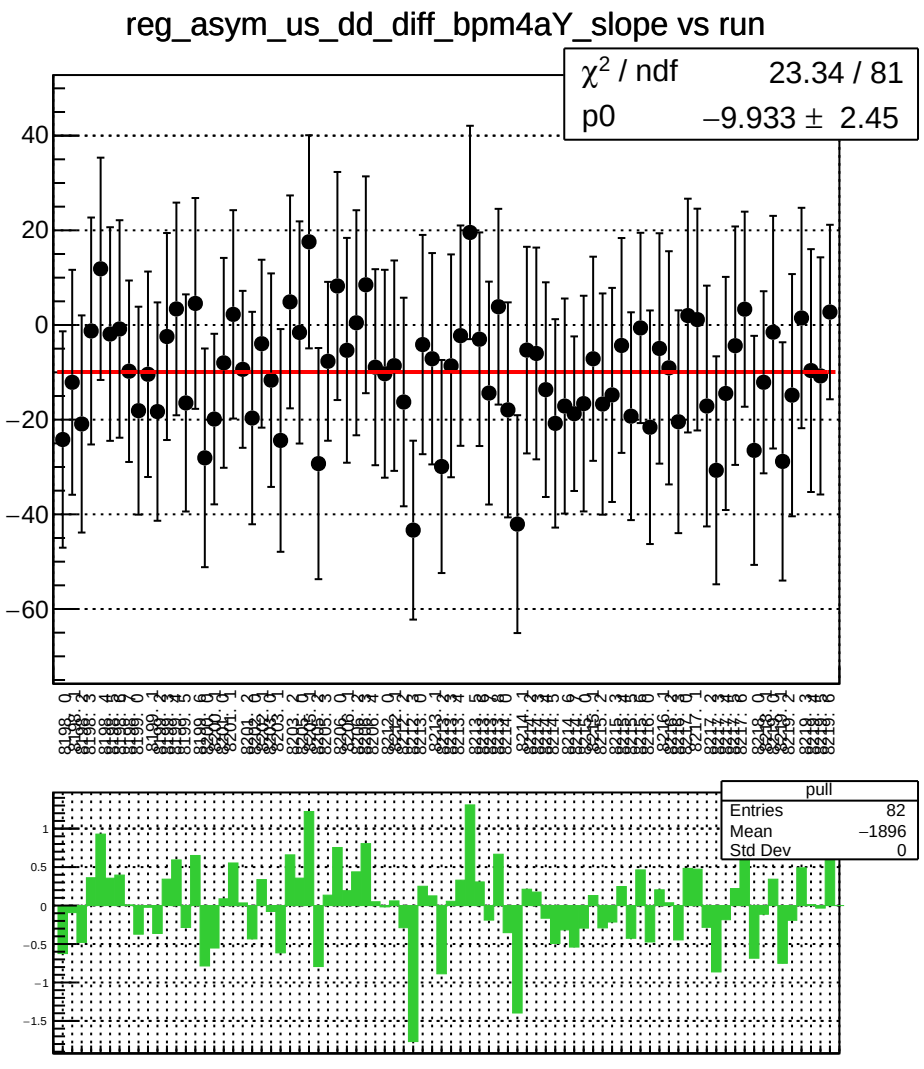

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.84 / 81
p0 −2.122 ± 3.23
pull
Entries 82
Mean −16.99
Std Dev 8.672

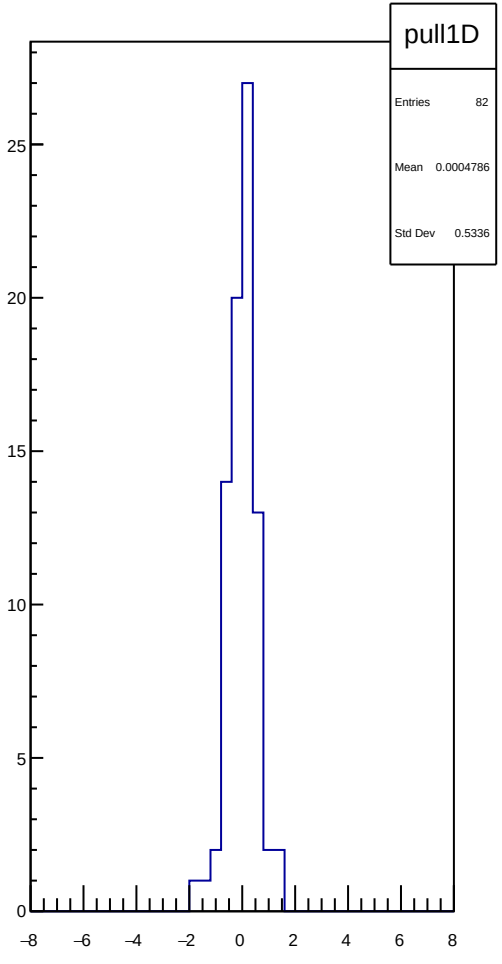

pull1D
Entries 82
Mean 0.008174
Std Dev 0.4254

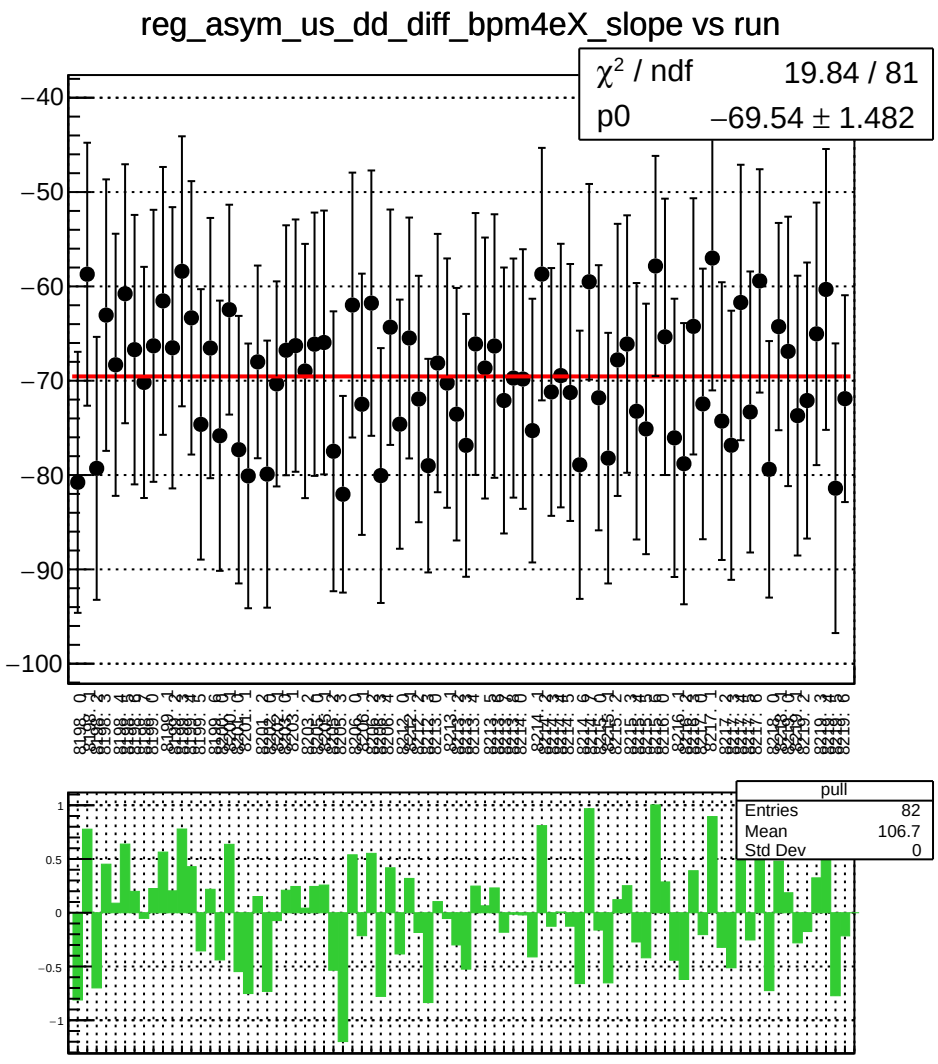

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 58.11 / 81
p0 −38.06 ± 0.1466
pull
Entries 82
Mean −276.4
Std Dev 0
pull1D
Entries 82
Mean −0.03693
Std Dev 0.841

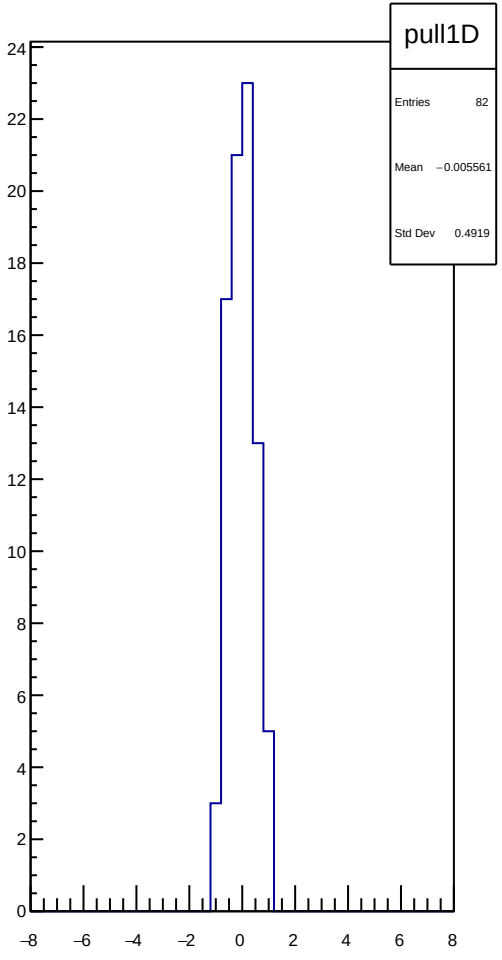

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 19.58 / 81
p0 11.53 ± 1.479
pull
Entries 82
Mean 193.4
Std Dev 0

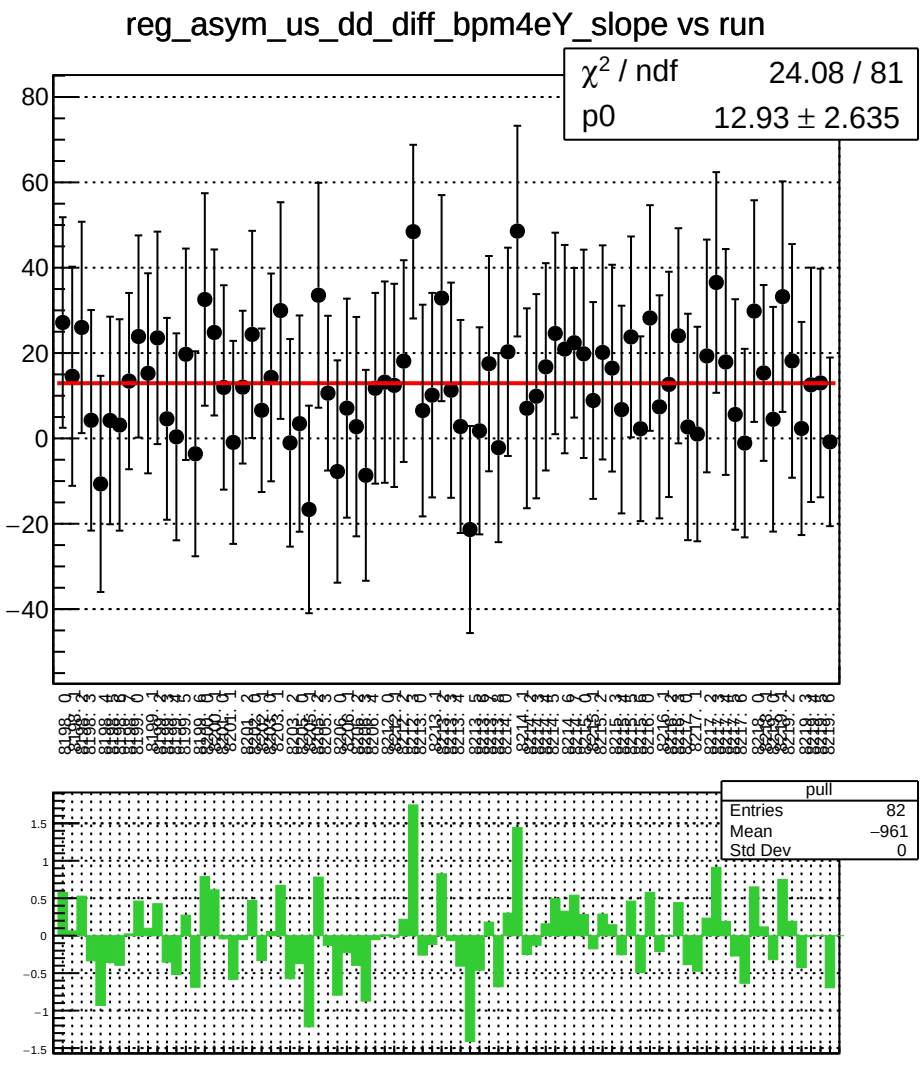

pull1D
Entries 82
Mean 0.00565
Std Dev 0.4887

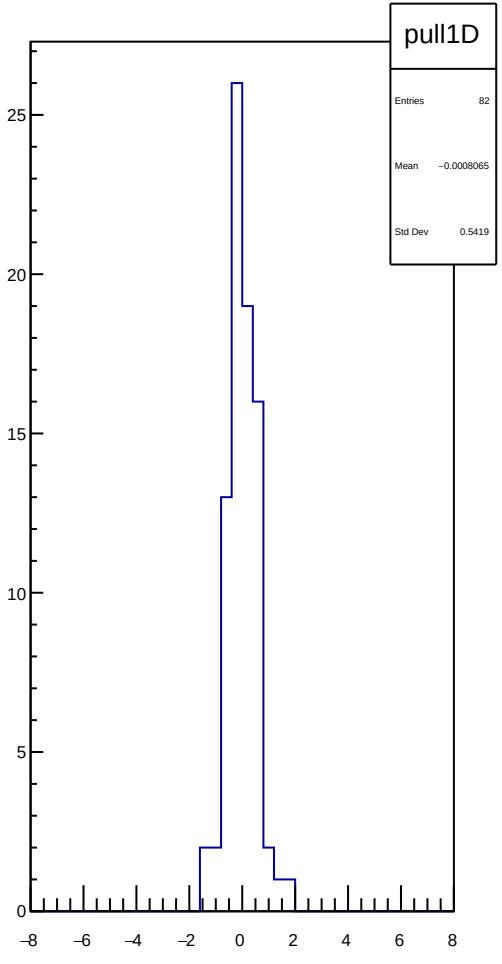

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.34 / 81
p0 −9.933 ± 2.45
pull
Entries 82
Mean −1896
Std Dev 0

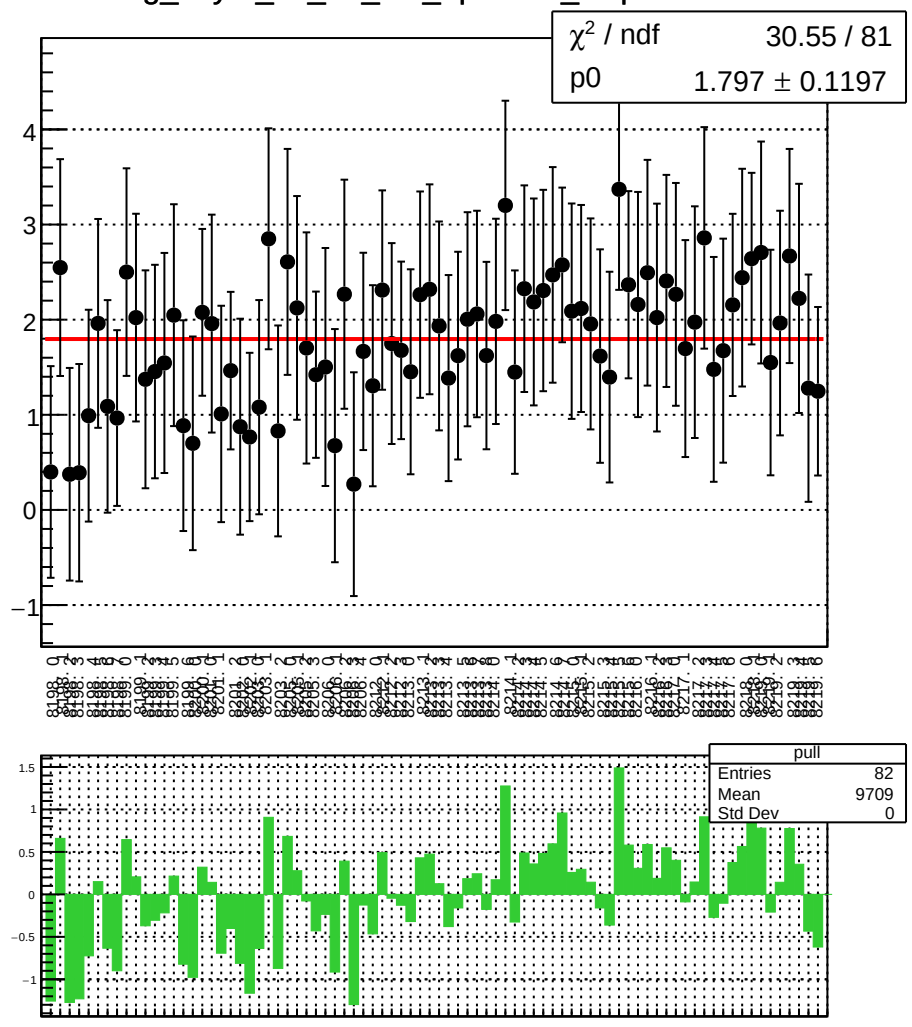

pull1D
Entries 82
Mean 0.0004786
Std Dev 0.5336

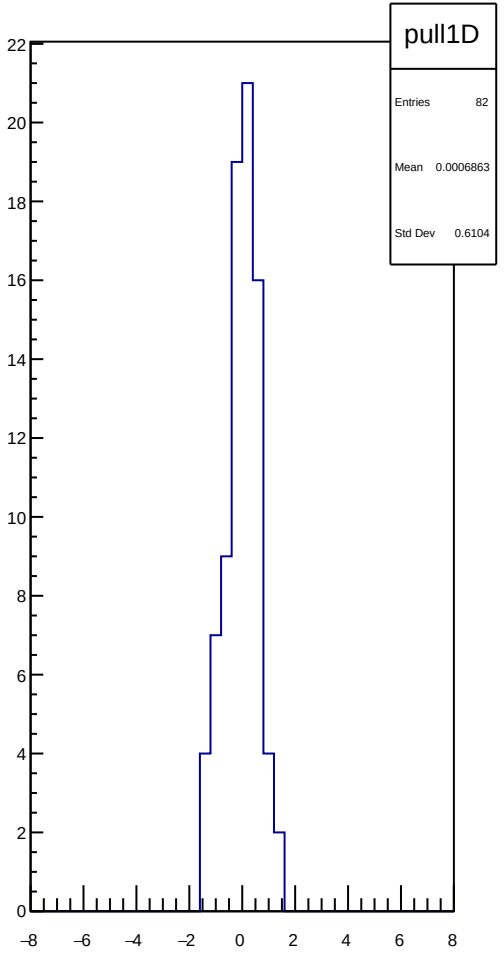

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.84 / 81
p0 −69.54 ± 1.482
pull
Entries 82
Mean 106.7
Std Dev 0

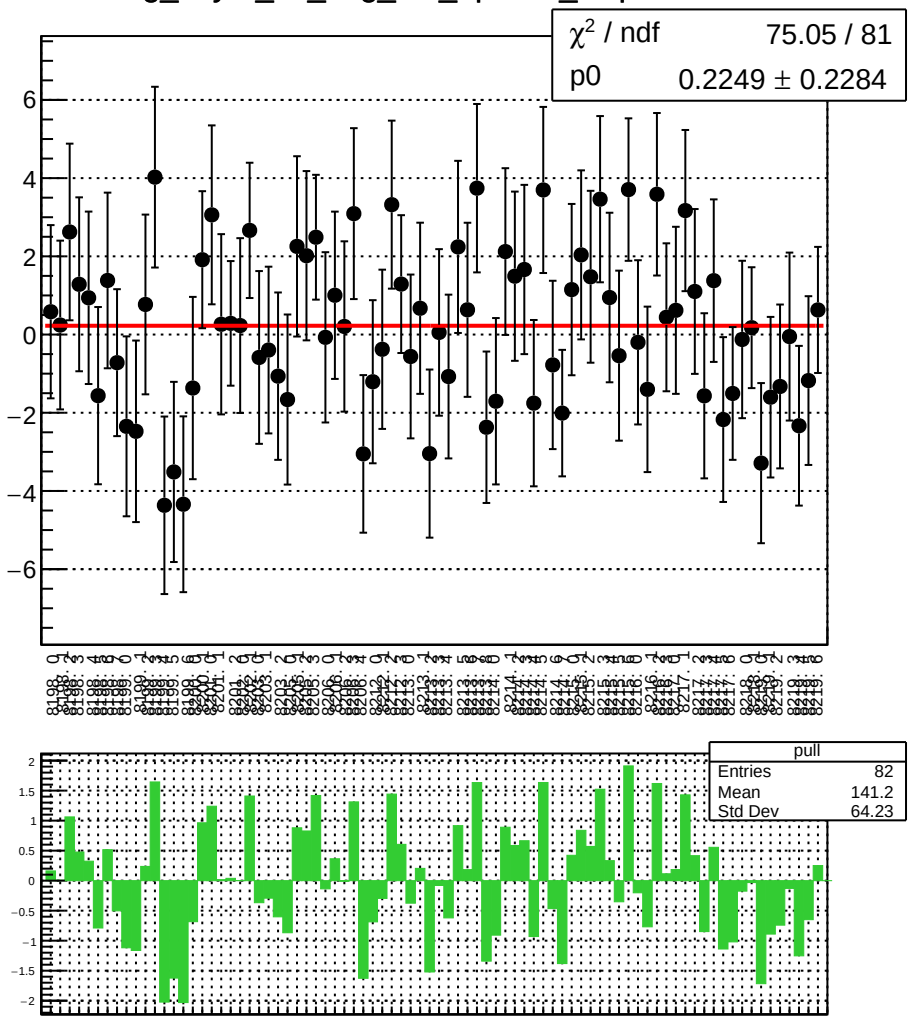

pull1D
Entries 82
Mean −0.005561
Std Dev 0.4919

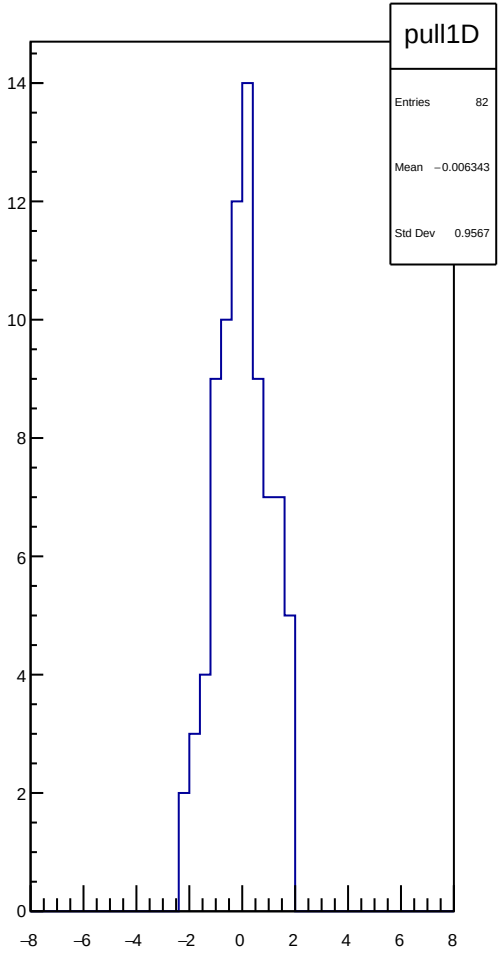

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.08 / 81
p0 12.93 ± 2.635
pull
Entries 82
Mean −961
Std Dev 0

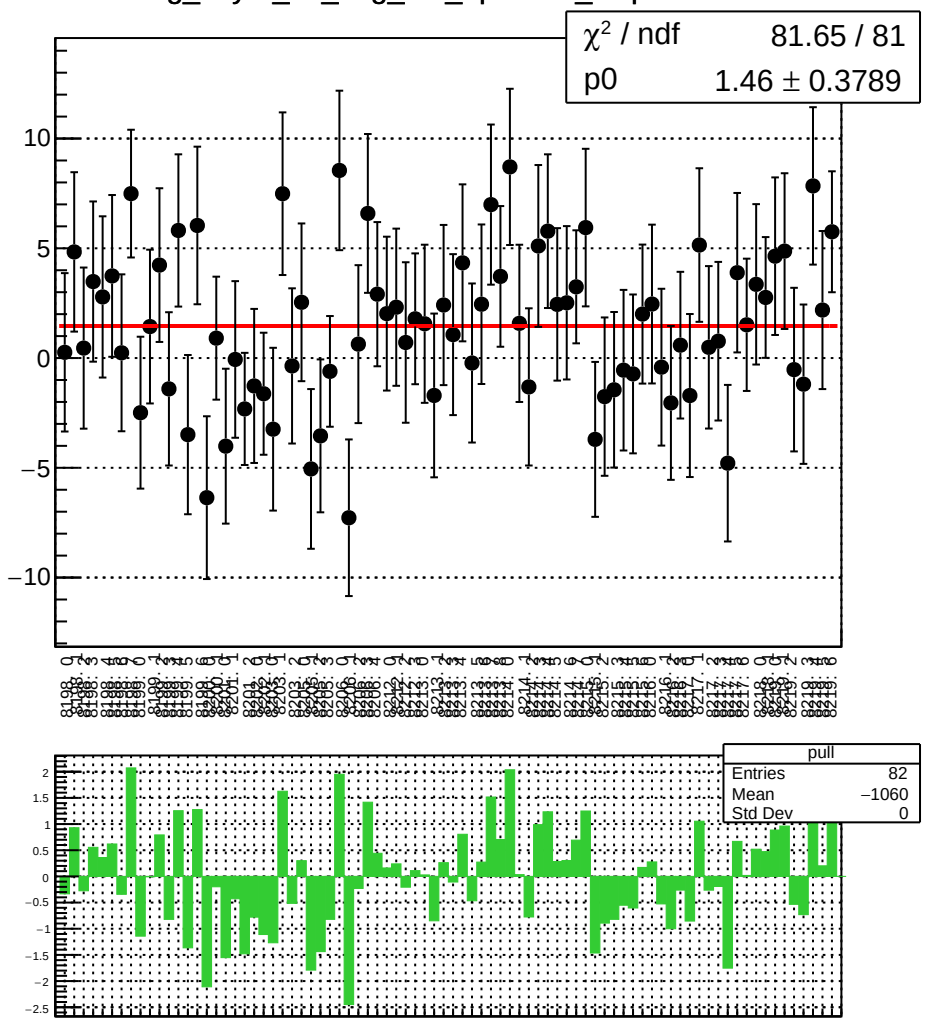

pull1D
Entries 82
Mean −0.0008065
Std Dev 0.5419

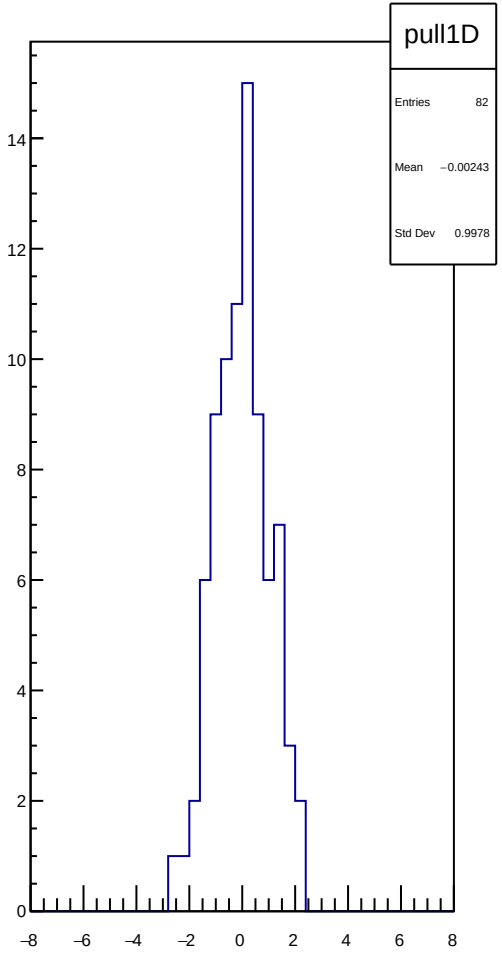

reg_asym_us_dd_diff_bpm12X_slope vs run
$\chi^2$ / ndf 30.55 / 81
p0 1.797 ± 0.1197
pull
Entries 82
Mean 9709
Std Dev 0

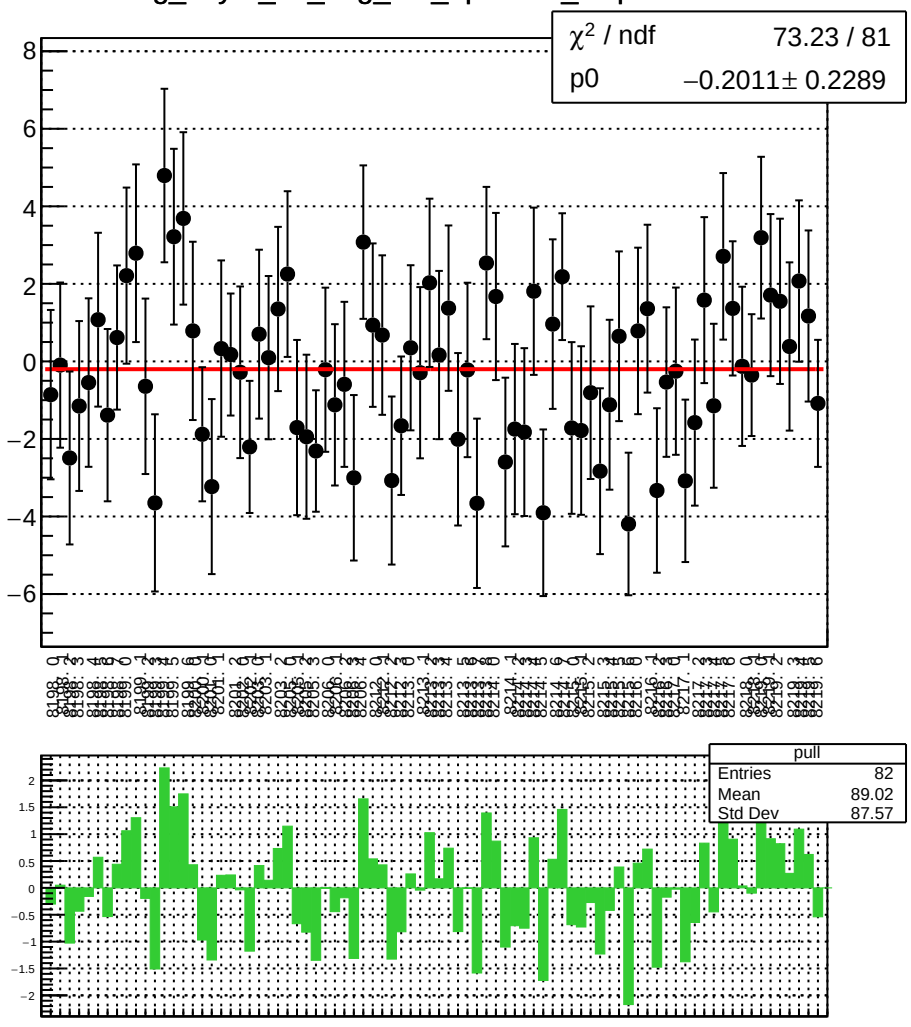

pull1D
Entries 82
Mean 0.0006863
Std Dev 0.6104

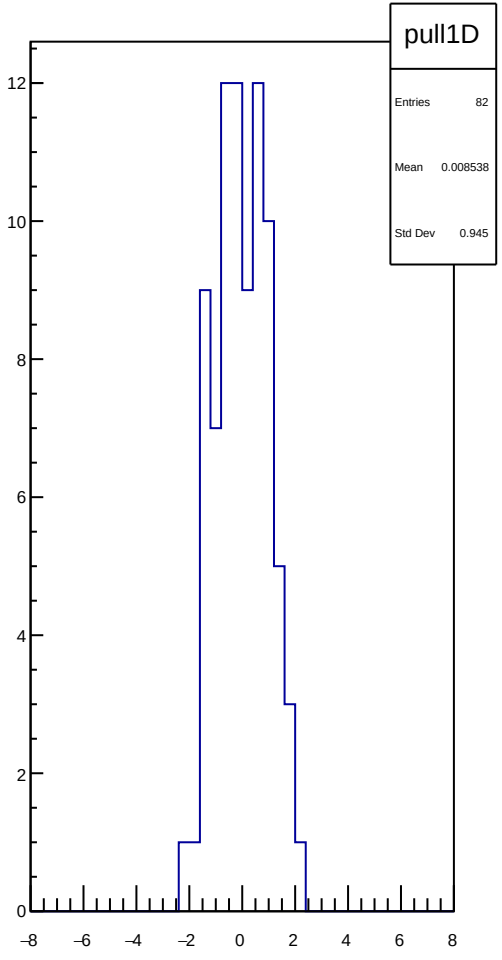

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 75.05 / 81
p0 0.2249 ± 0.2284
pull
Entries 82
Mean 141.2
Std Dev 64.23

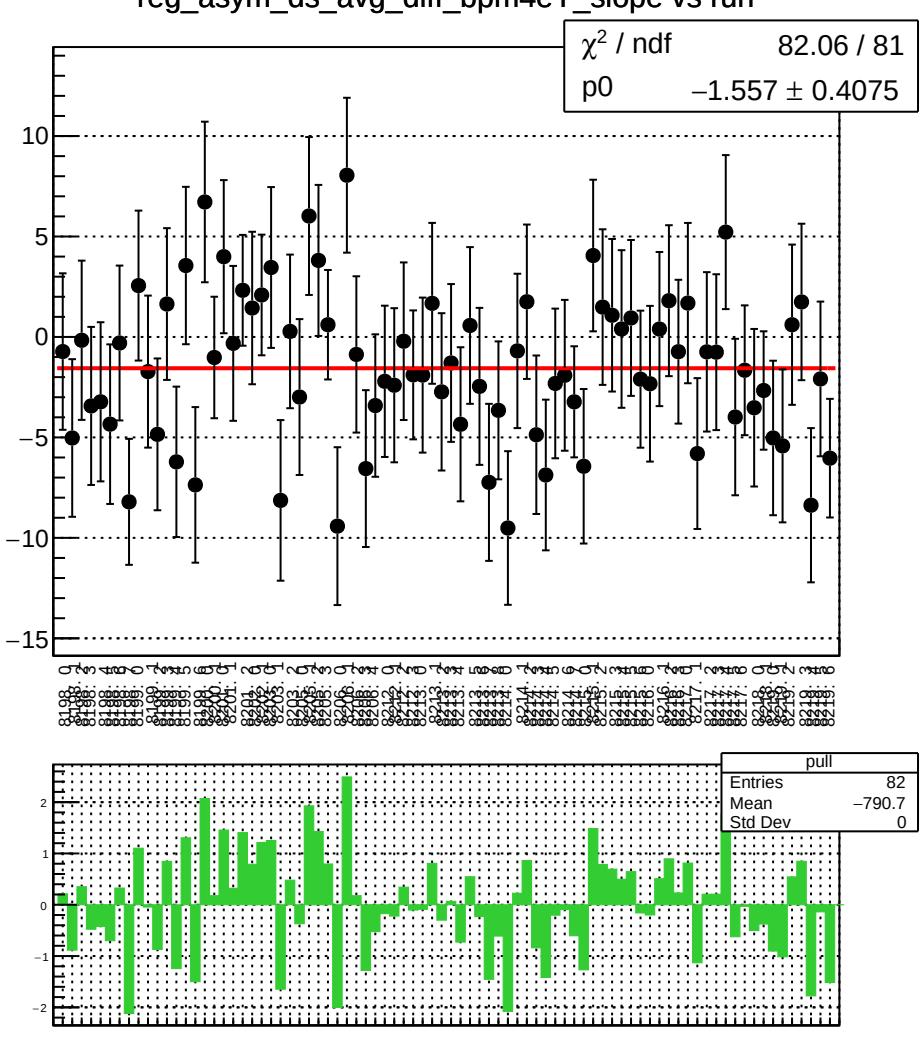

pull1D
Entries 82
Mean −0.006343
Std Dev 0.9567

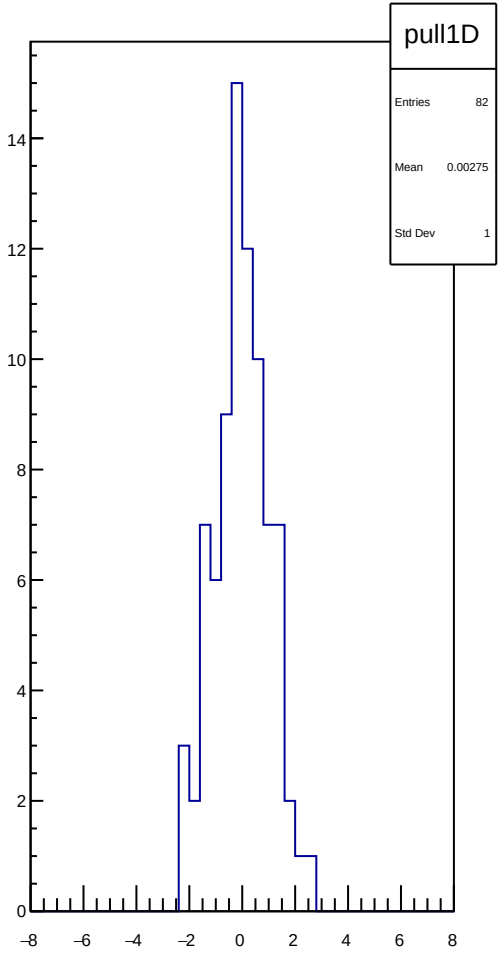

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 81.65 / 81
p0 1.46 ± 0.3789
pull
Entries 82
Mean −1060
Std Dev 0

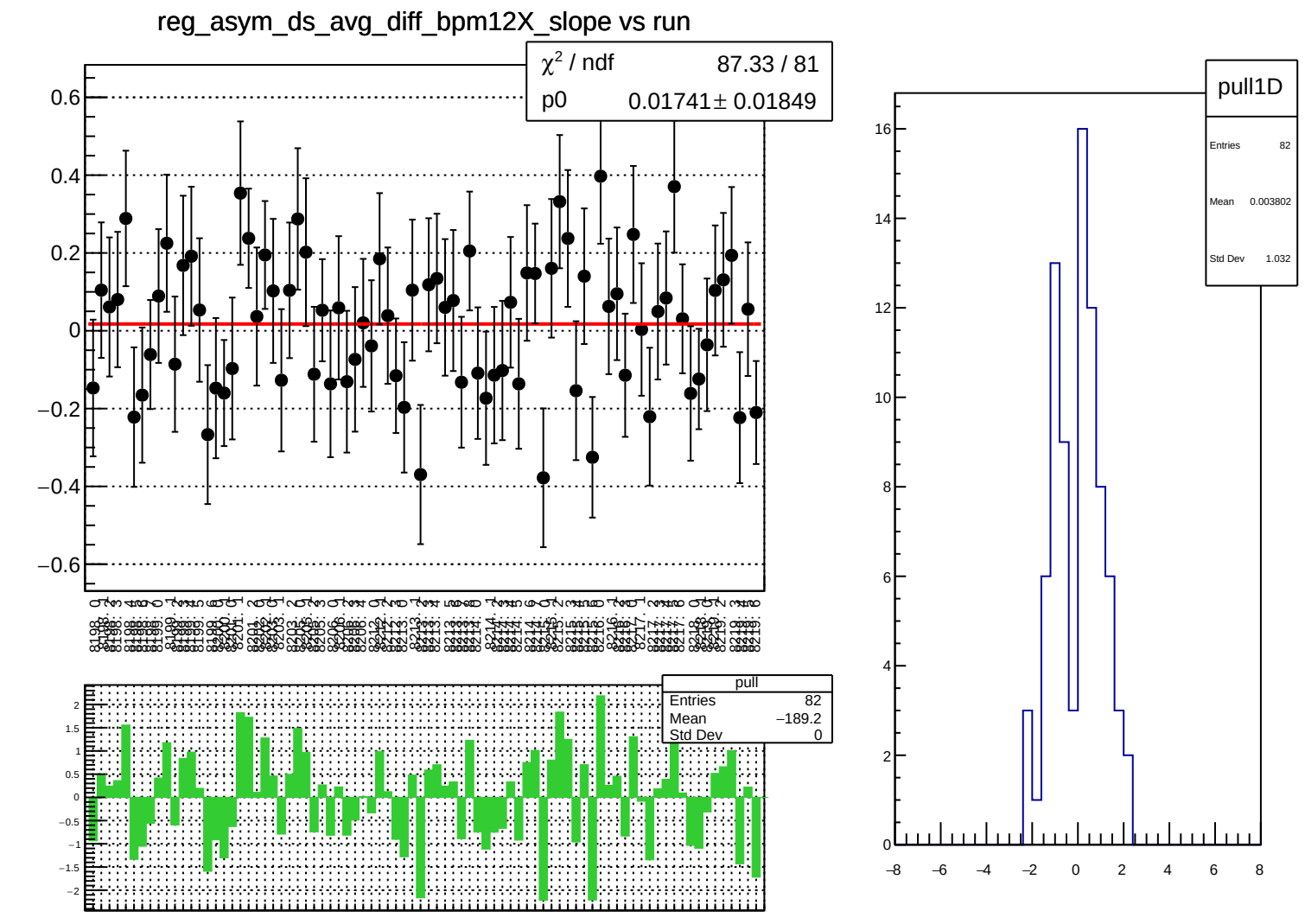

pull1D
Entries 82
Mean −0.00243
Std Dev 0.9978

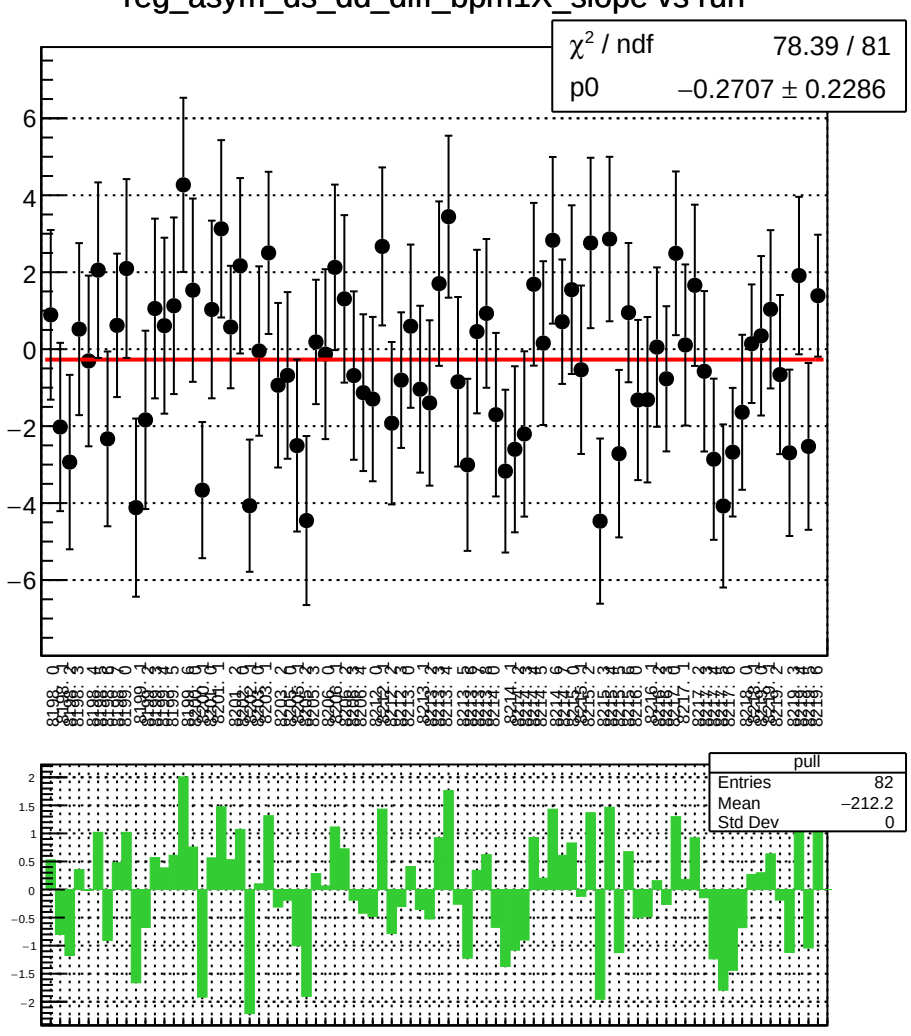

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 73.23 / 81
p0 −0.2011± 0.2289
pull
Entries 82
Mean 89.02
Std Dev 87.57

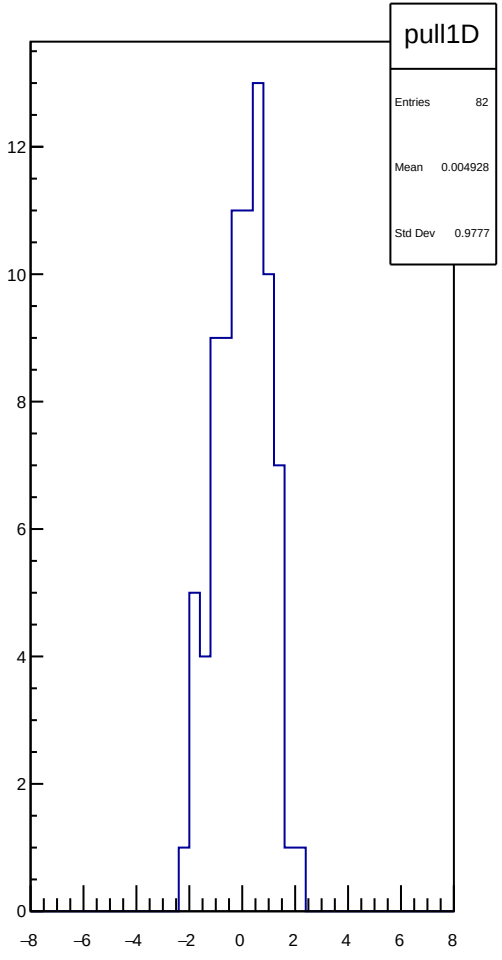

pull1D
Entries 82
Mean 0.008538
Std Dev 0.945

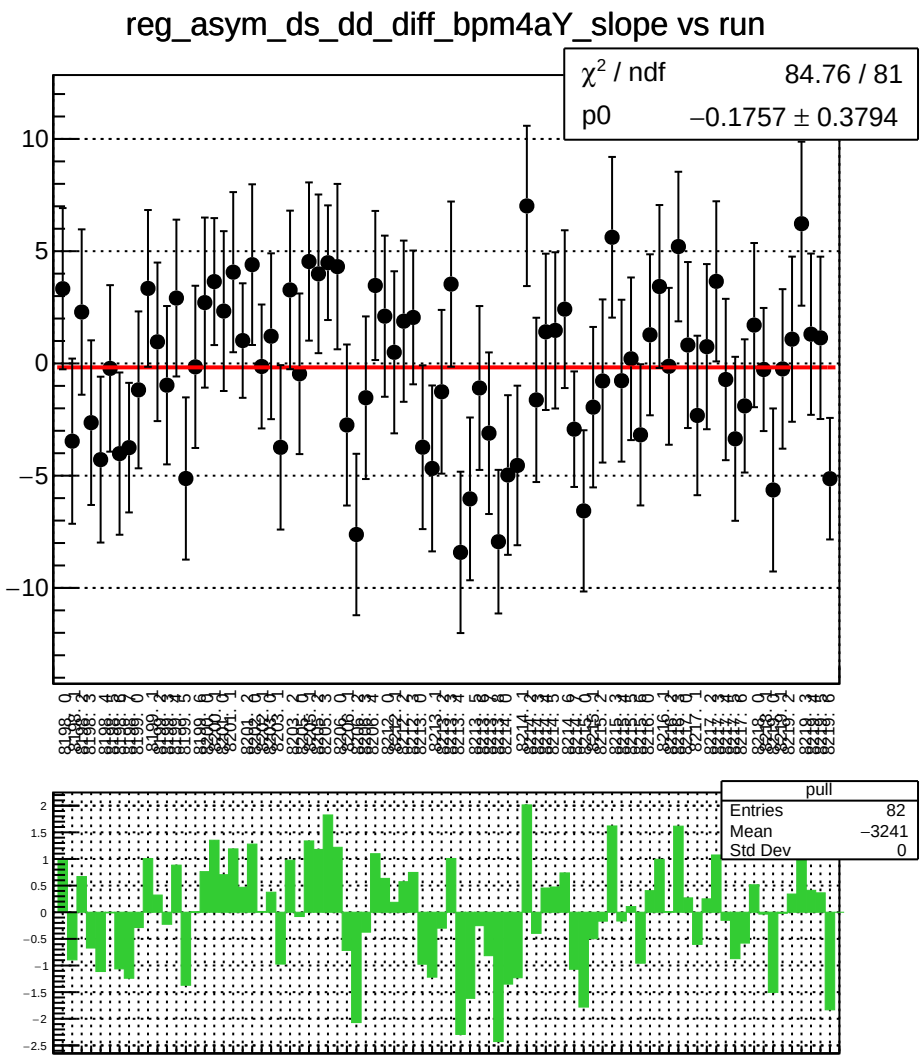

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 82.06 / 81
p0 −1.557 ± 0.4075
pull
Entries 82
Mean −790.7
Std Dev 0

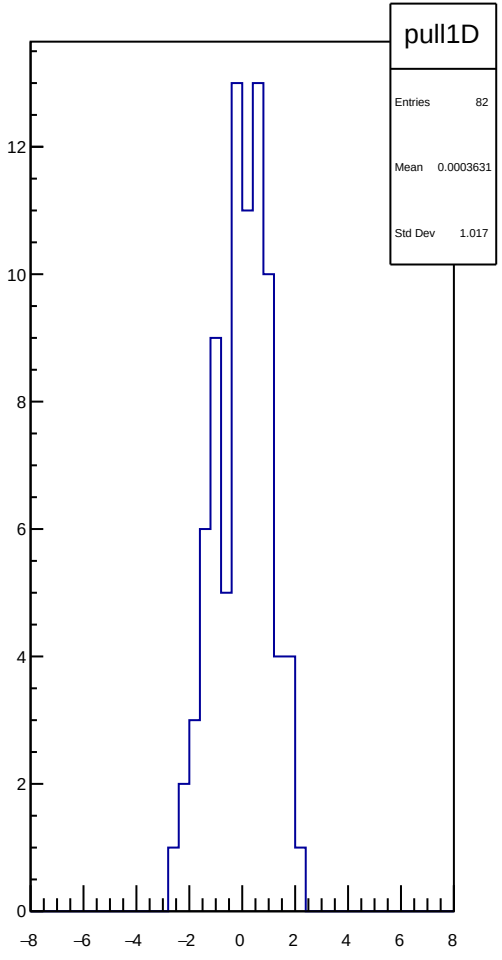

pull1D
Entries 82
Mean 0.00275
Std Dev 1

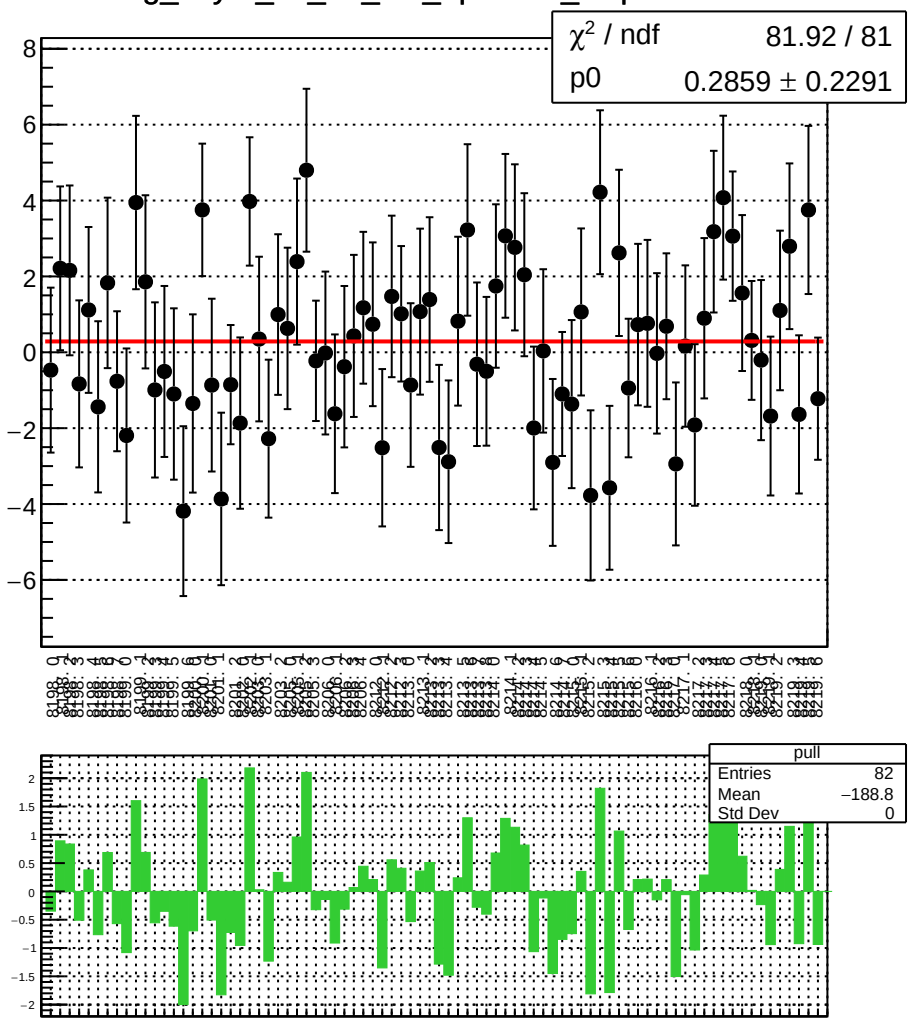

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 87.33 / 81
p0 0.01741 ± 0.01849
pull
Entries 82
Mean −189.2
Std Dev 0
pull1D
Entries 82
Mean 0.003802
Std Dev 1.032

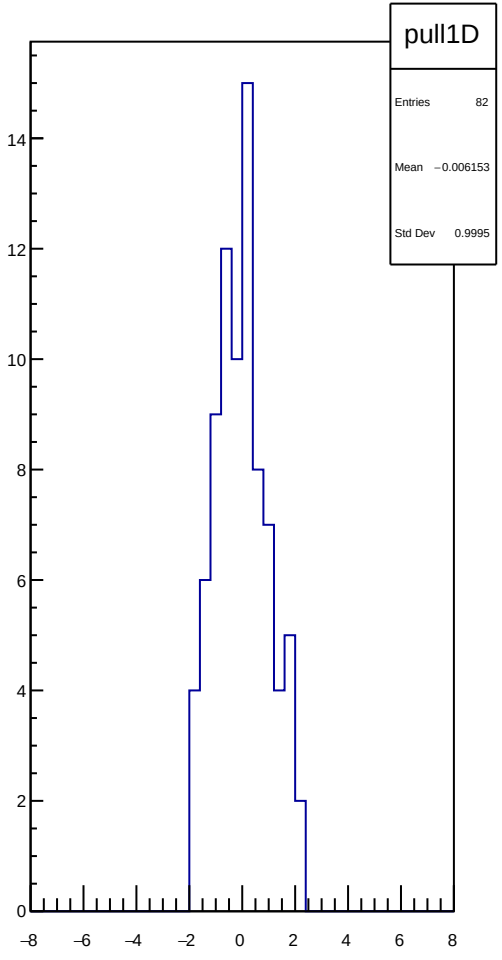

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 78.39 / 81
p0 −0.2707 ± 0.2286
pull
Entries 82
Mean −212.2
Std Dev 0

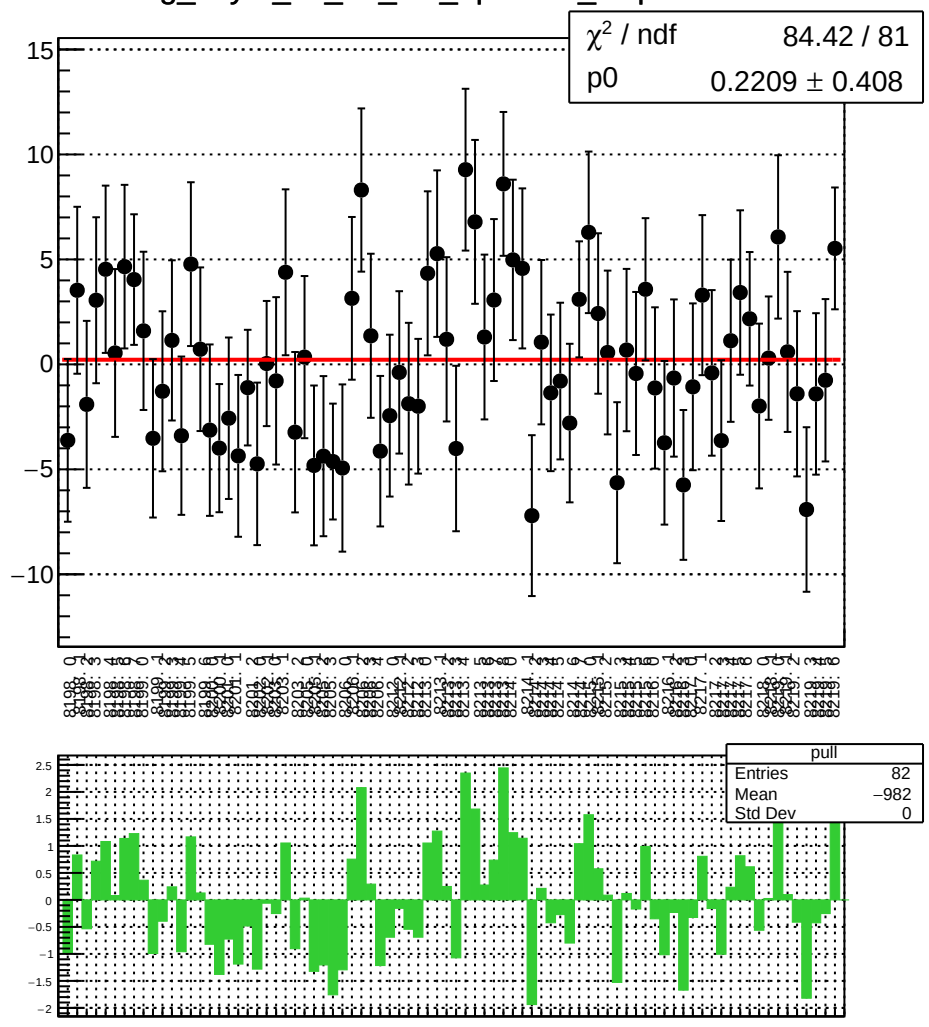

pull1D
Entries 82
Mean 0.004928
Std Dev 0.9777

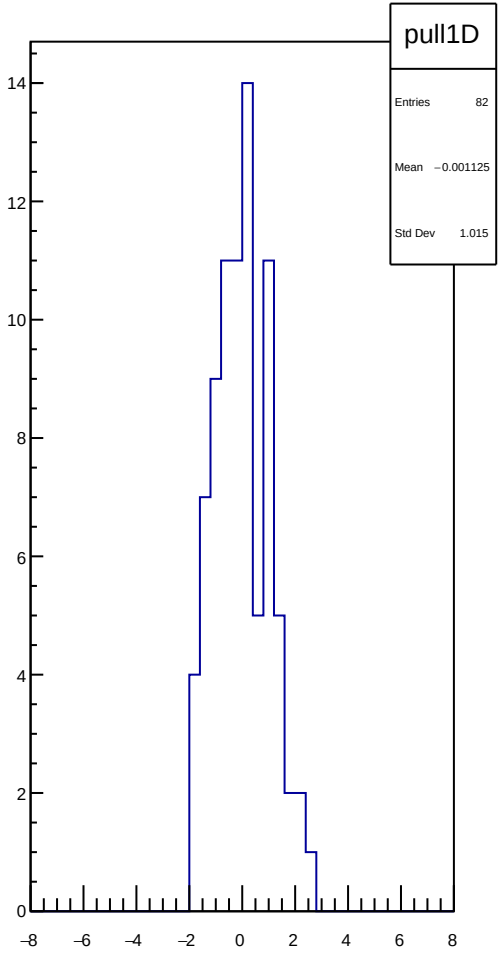

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.76 / 81
p0 −0.1757 ± 0.3794
pull
Entries 82
Mean −3241
Std Dev 0

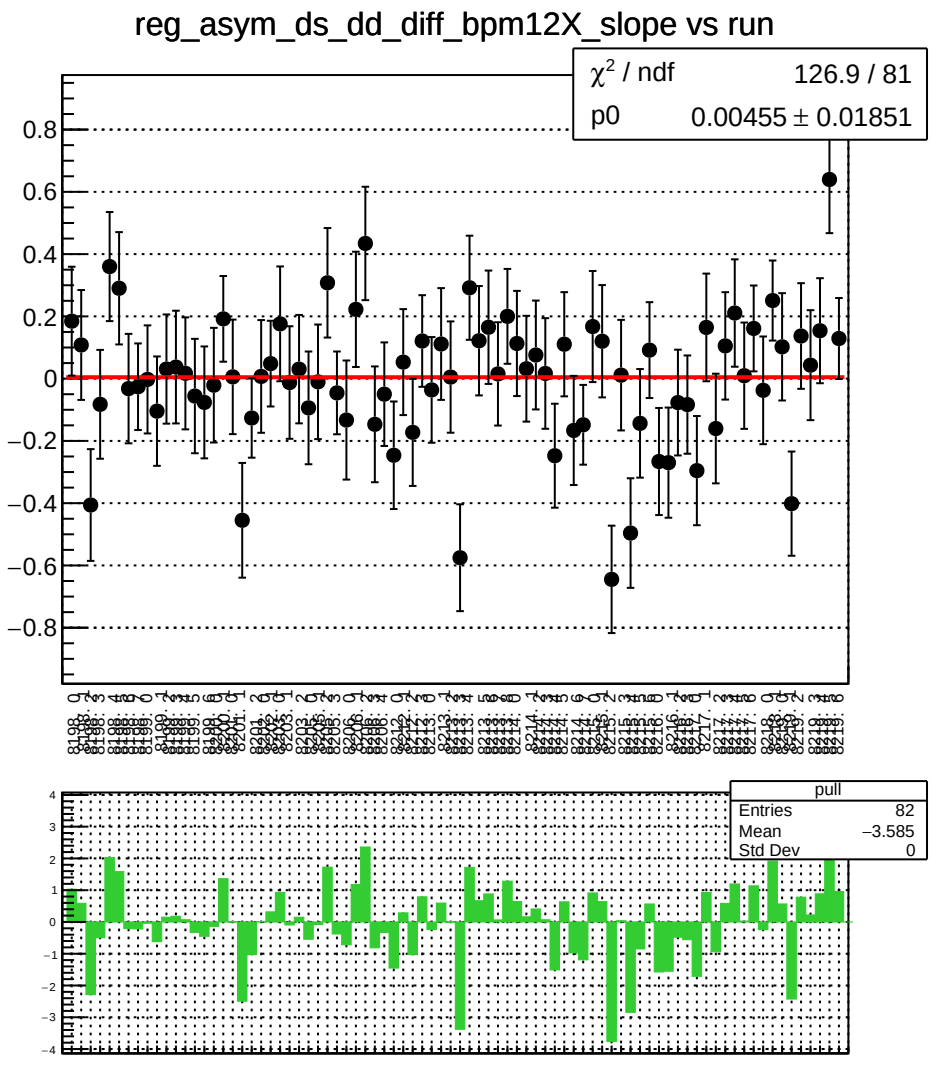

pull1D
Entries 82
Mean 0.0003631
Std Dev 1.017

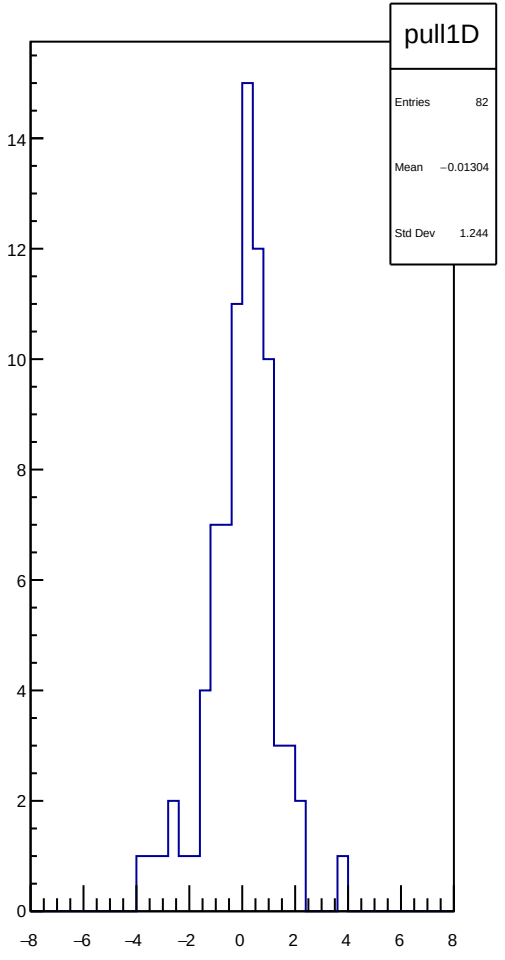

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.92 / 81
p0 0.2859 ± 0.2291
pull
Entries 82
Mean −188.8
Std Dev 0

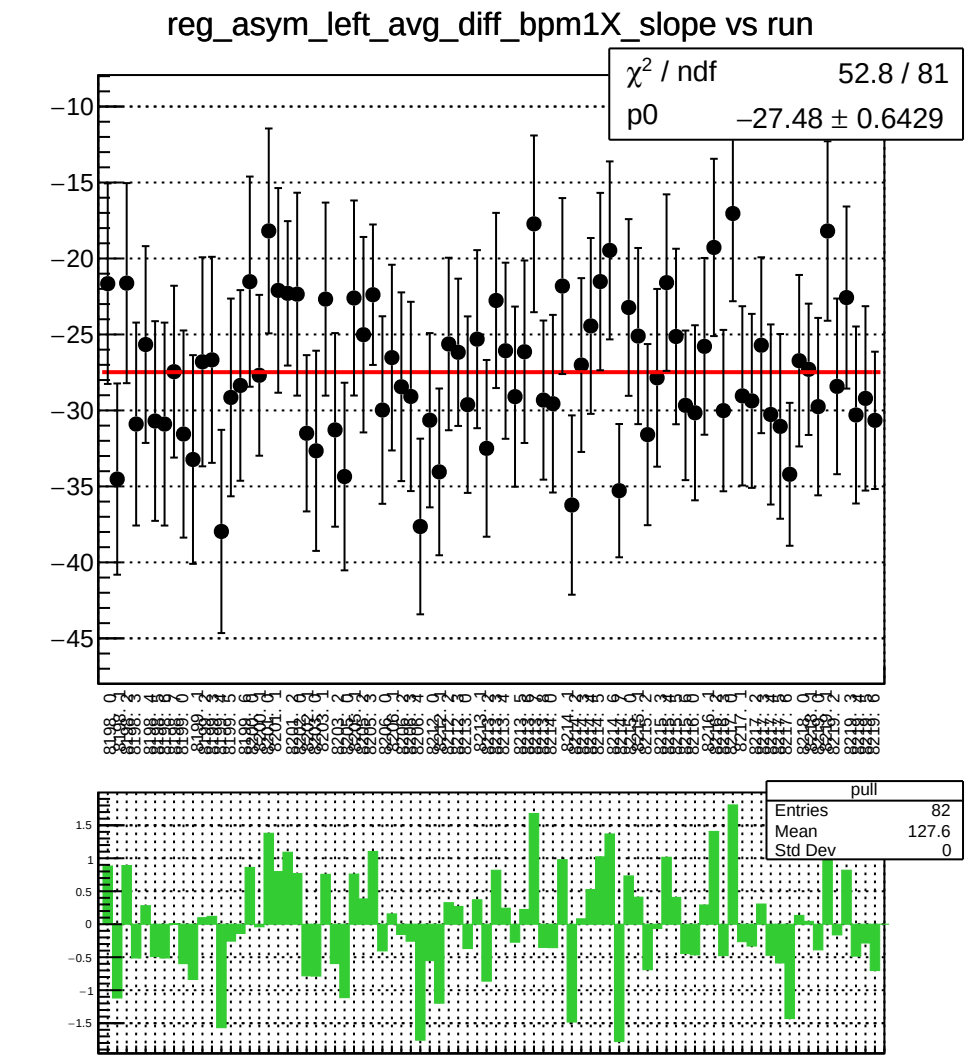

pull1D
Entries 82
Mean −0.006153
Std Dev 0.9995

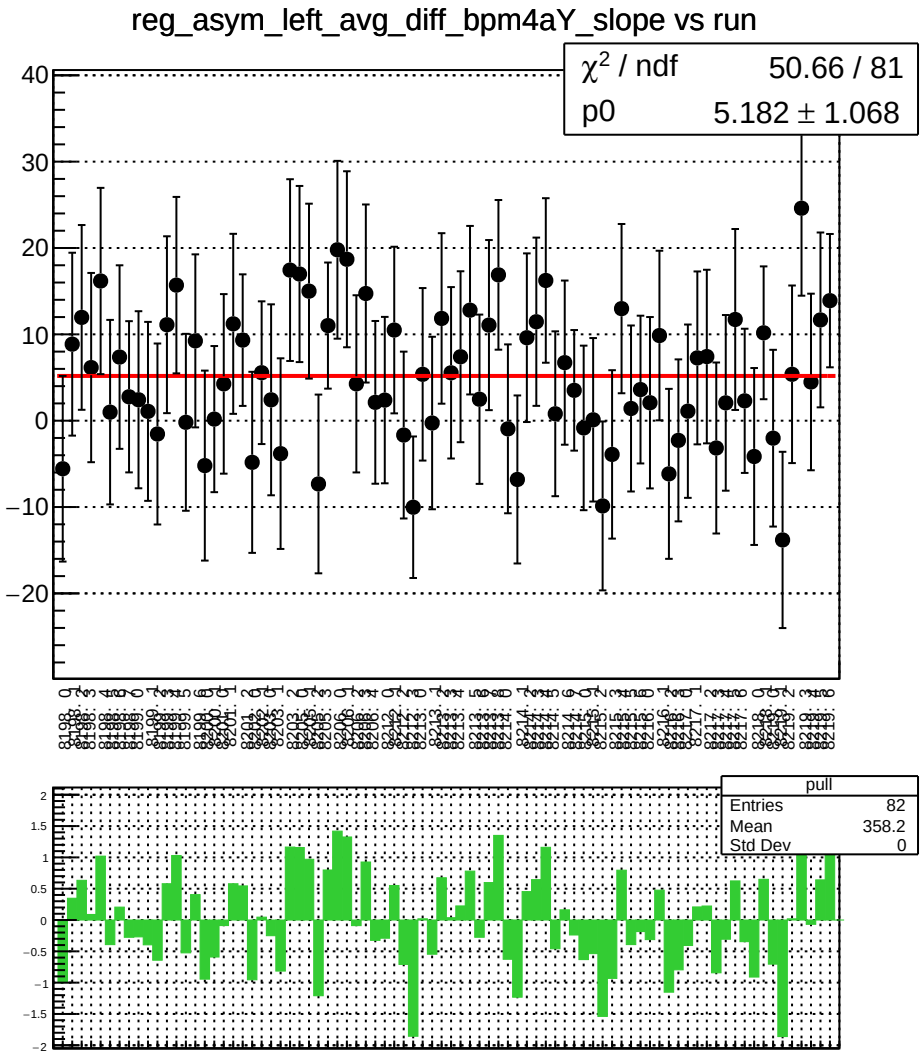

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.42 / 81
p0 0.2209 ± 0.408
pull
Entries 82
Mean −982
Std Dev 0

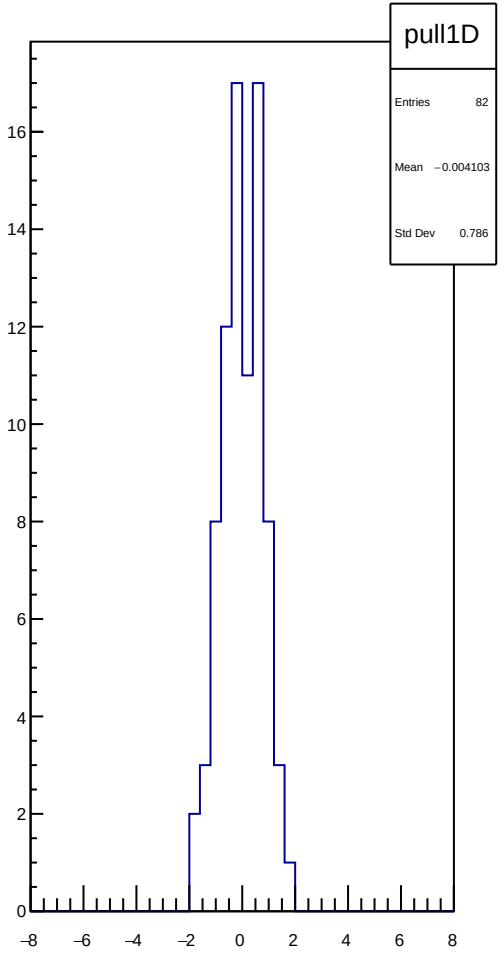

pull1D
Entries 82
Mean −0.001125
Std Dev 1.015

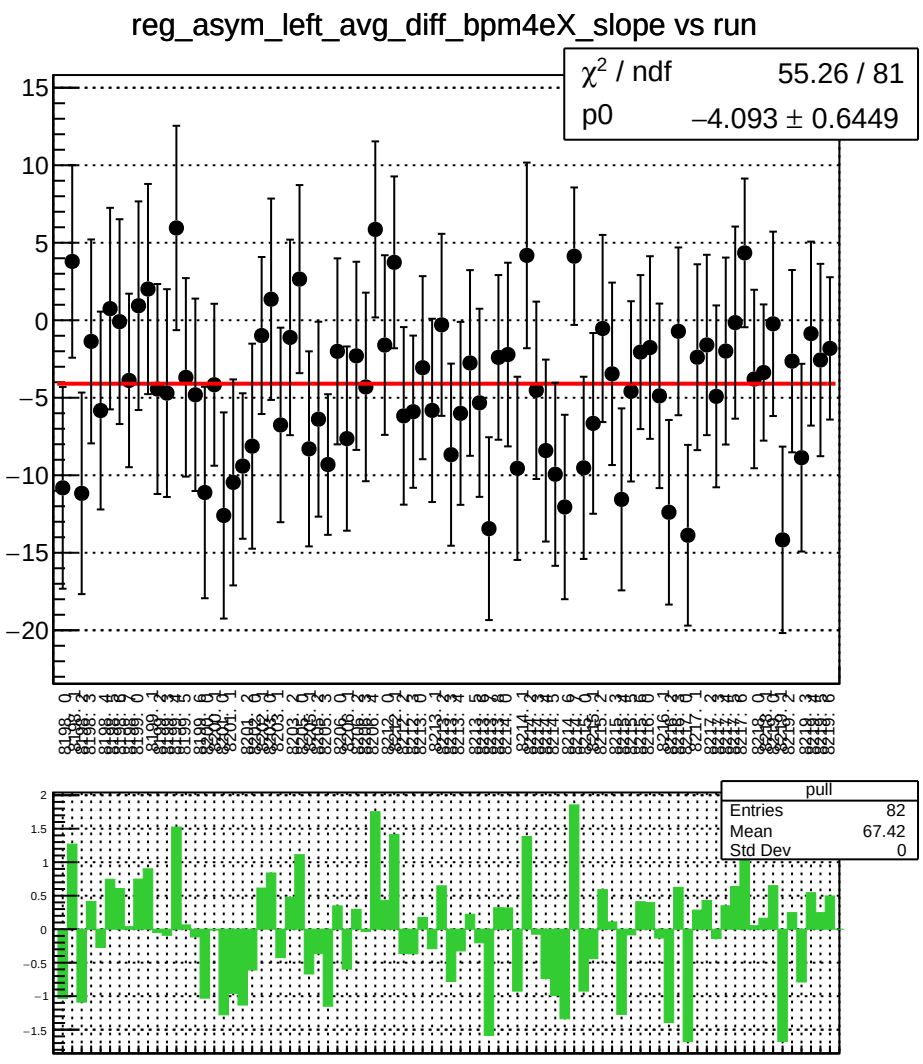

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 126.9 / 81
p0 0.00455 ± 0.01851
pull
Entries 82
Mean −3.585
Std Dev 0

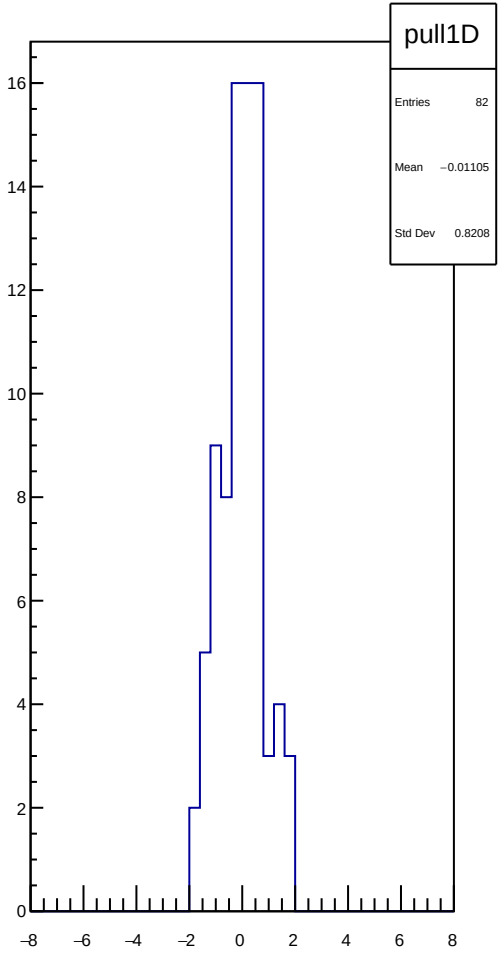

pull1D
Entries 82
Mean −0.01304
Std Dev 1.244

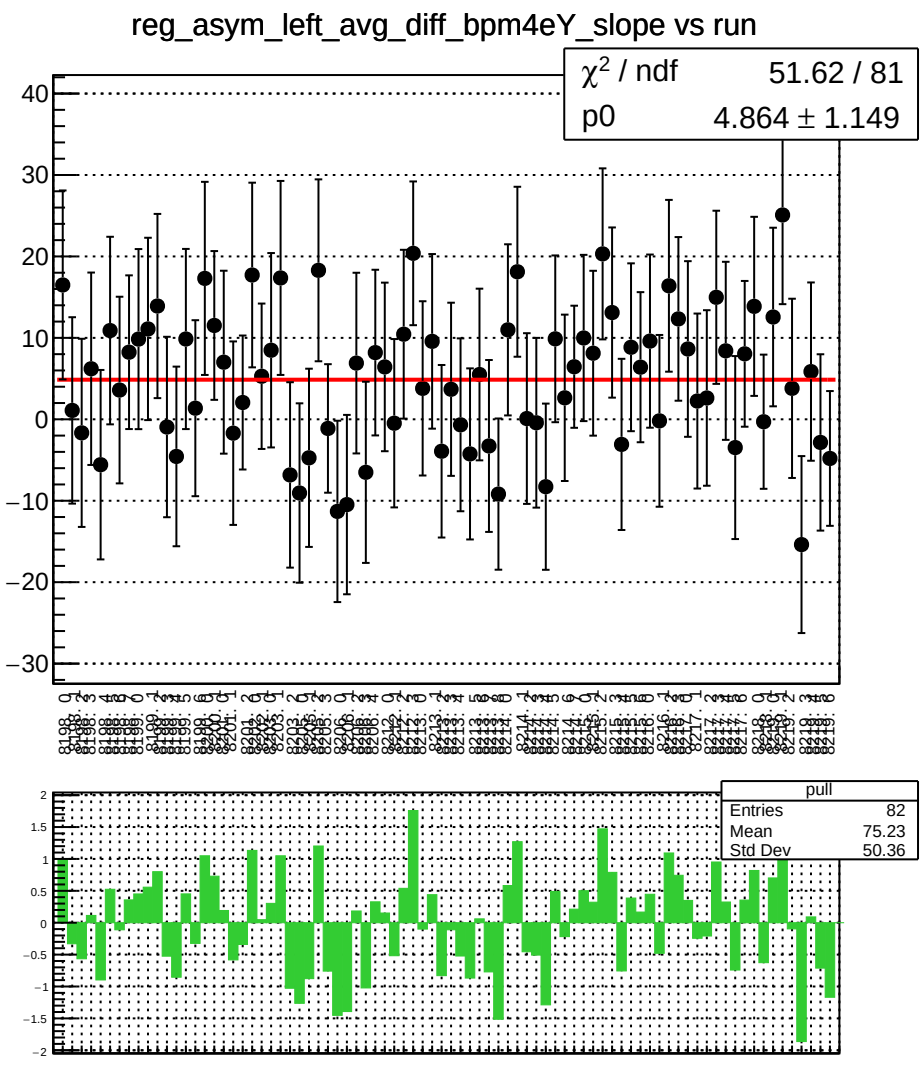

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 52.8 / 81
p0 −27.48 ± 0.6429
pull
Entries 82
Mean 127.6
Std Dev 0
pull1D
Entries 82
Mean 0.009967
Std Dev 0.8024

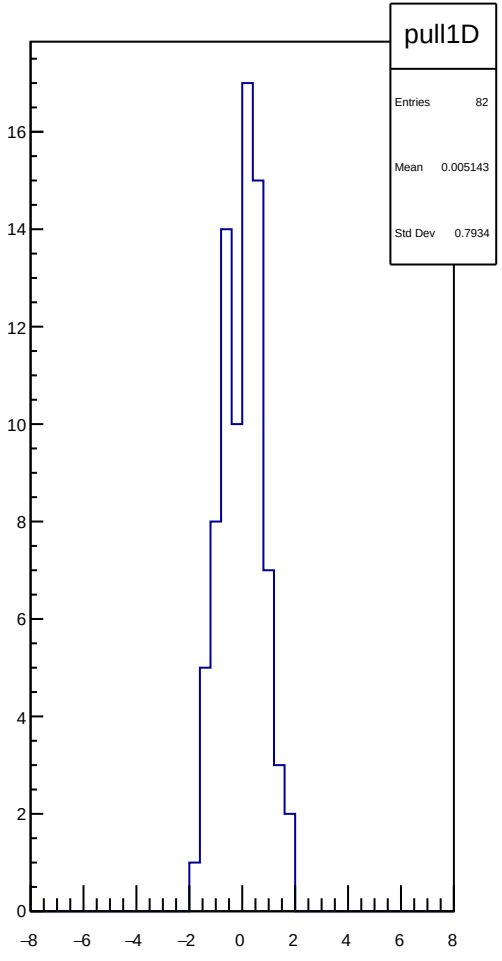

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 50.66 / 81
p0 5.182 ± 1.068
pull
Entries 82
Mean 358.2
Std Dev 0

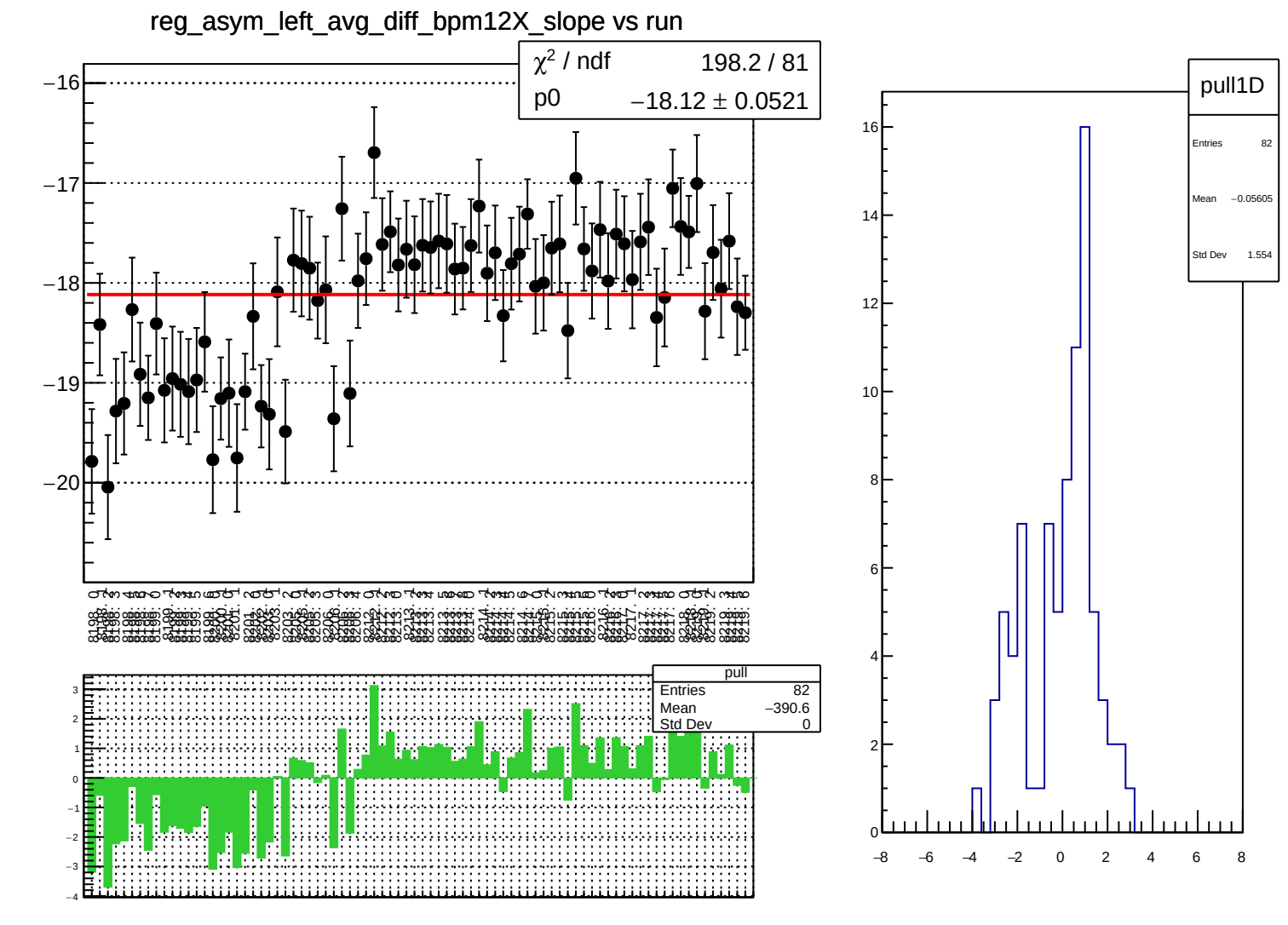

pull1D
Entries 82
Mean −0.004103
Std Dev 0.786

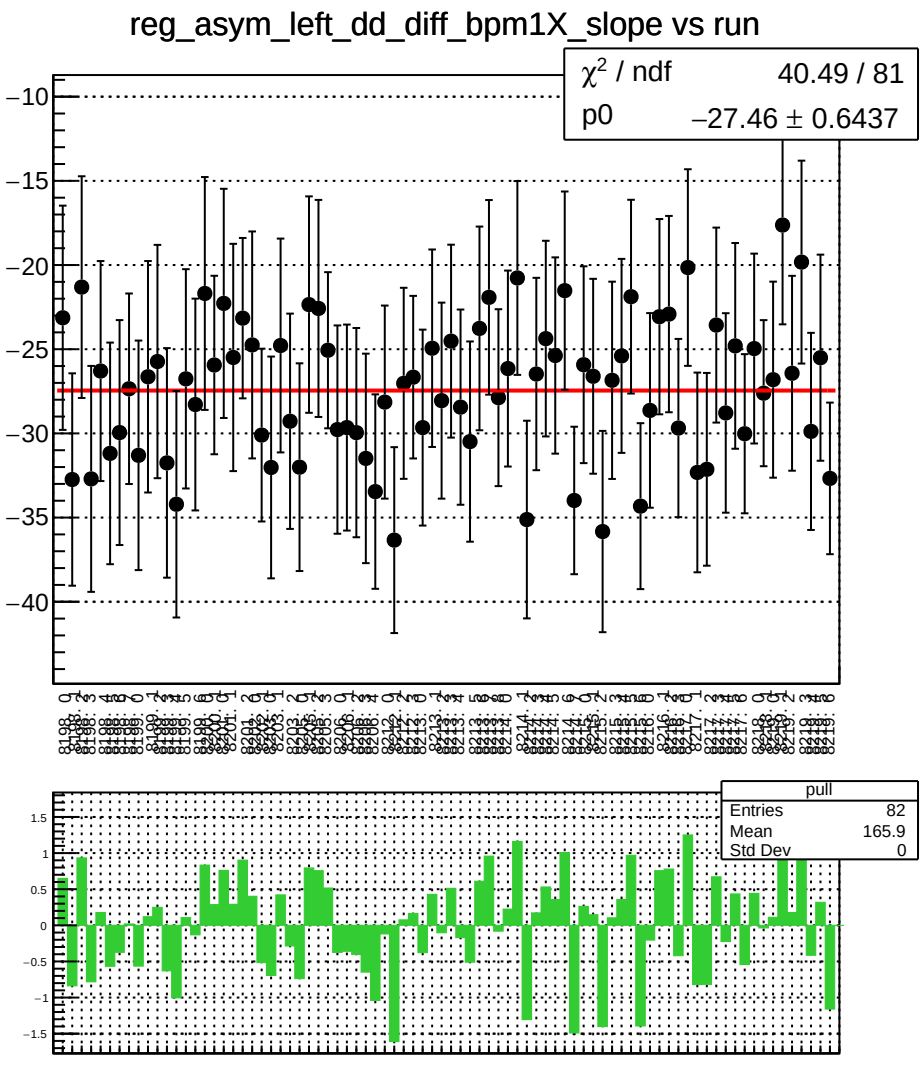

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.26 / 81
p0 −4.093 ± 0.6449
pull
Entries 82
Mean 67.42
Std Dev 0

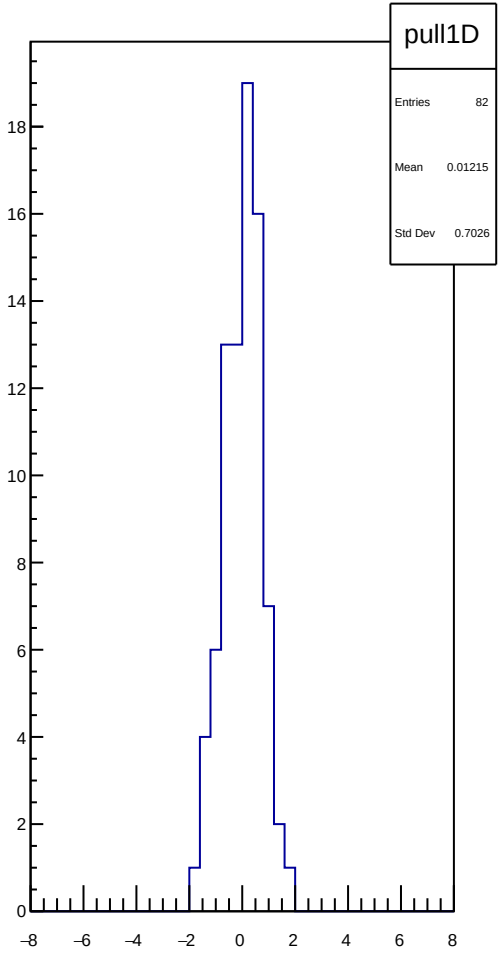

pull1D
Entries 82
Mean −0.01105
Std Dev 0.8208

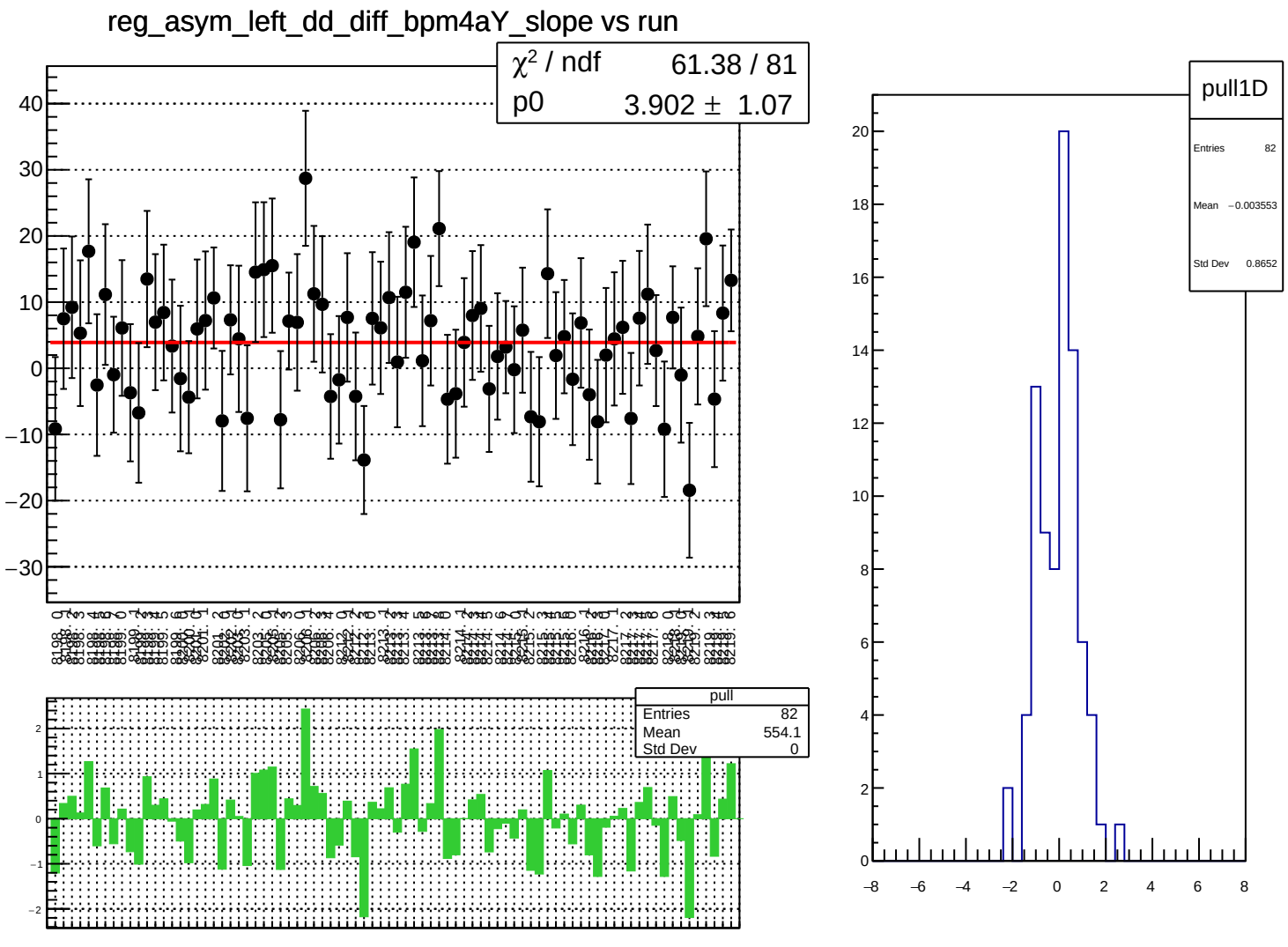

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.62 / 81
p0 4.864 ± 1.149
pull
Entries 82
Mean 75.23
Std Dev 50.36

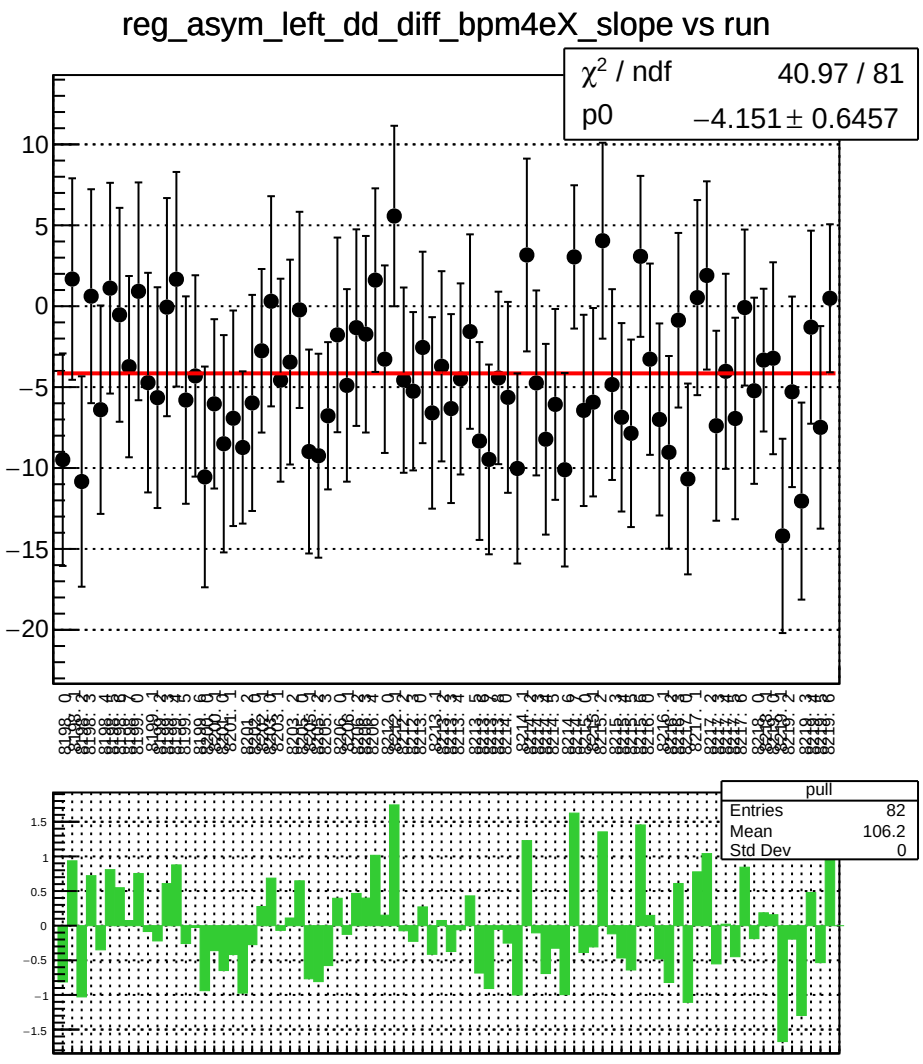

pull1D
Entries 82
Mean 0.005143
Std Dev 0.7934

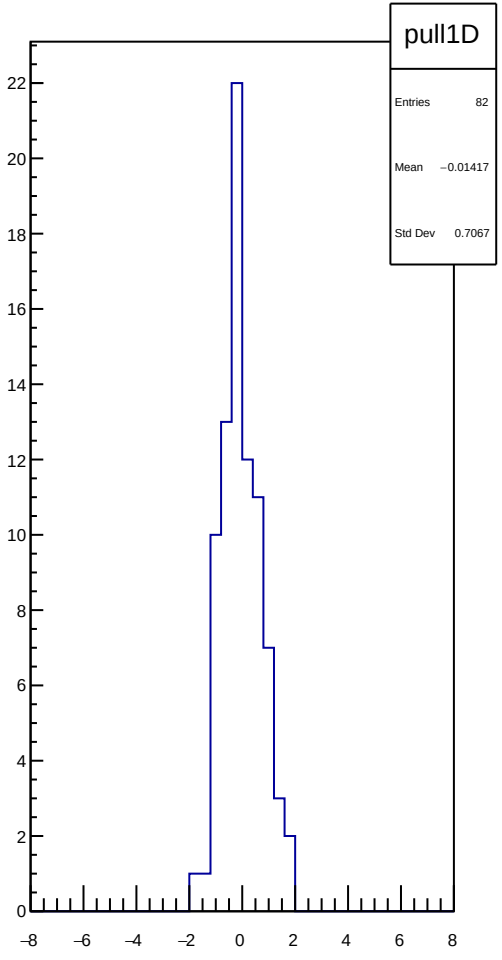

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 198.2 / 81
p0 −18.12 ± 0.0521
pull
Entries 82
Mean −390.6
Std Dev 0
pull1D
Entries 82
Mean −0.05605
Std Dev 1.554

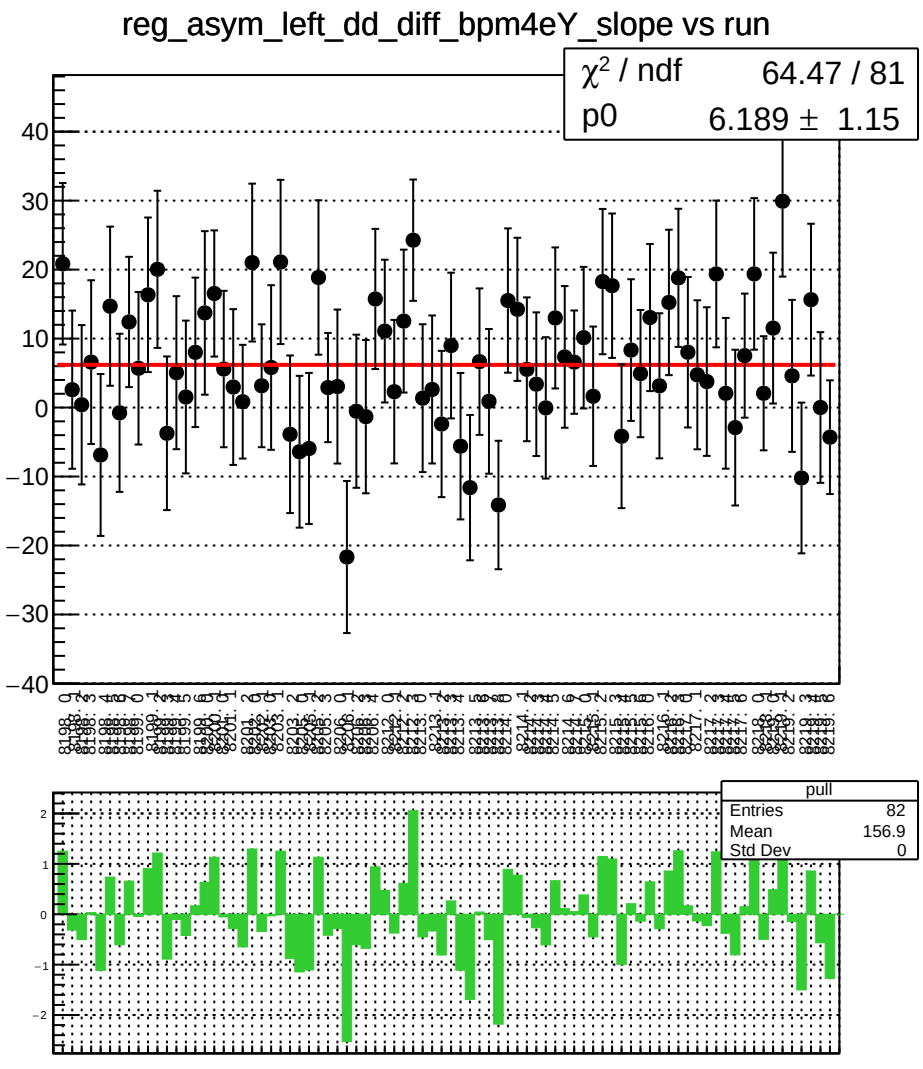

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 40.49 / 81
p0 −27.46 ± 0.6437
pull
Entries 82
Mean 165.9
Std Dev 0

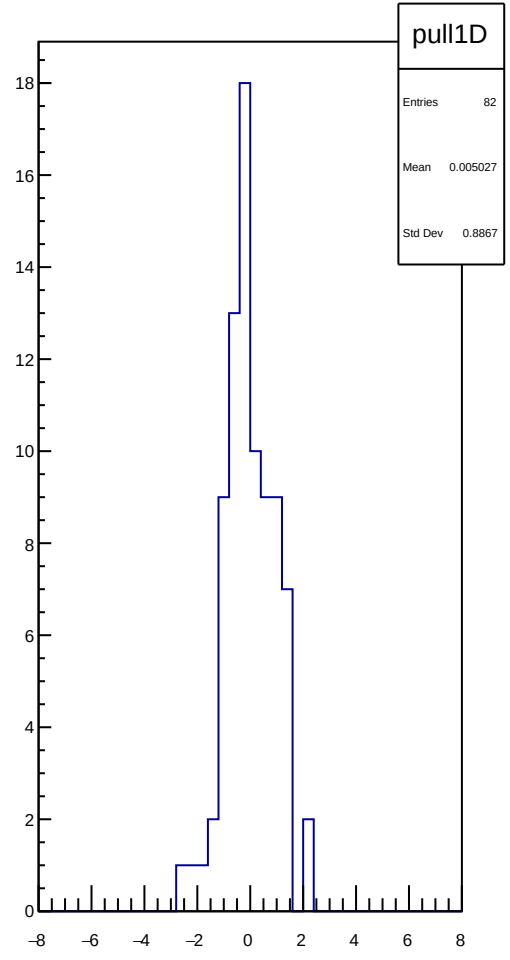

pull1D
Entries 82
Mean 0.01215
Std Dev 0.7026

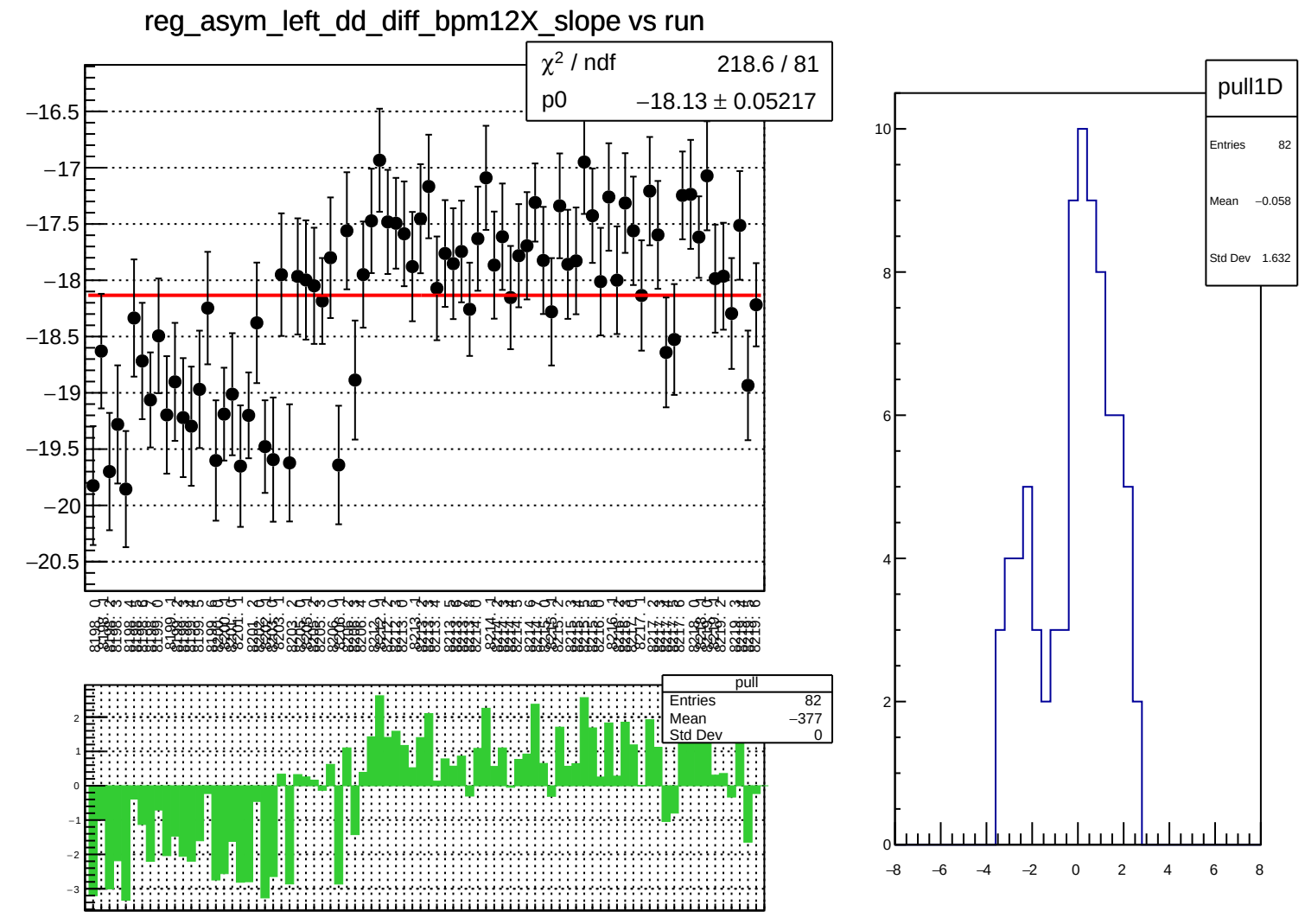

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.38 / 81
p0 3.902 ± 1.07
pull
Entries 82
Mean 554.1
Std Dev 0
pull1D
Entries 82
Mean −0.003553
Std Dev 0.8652

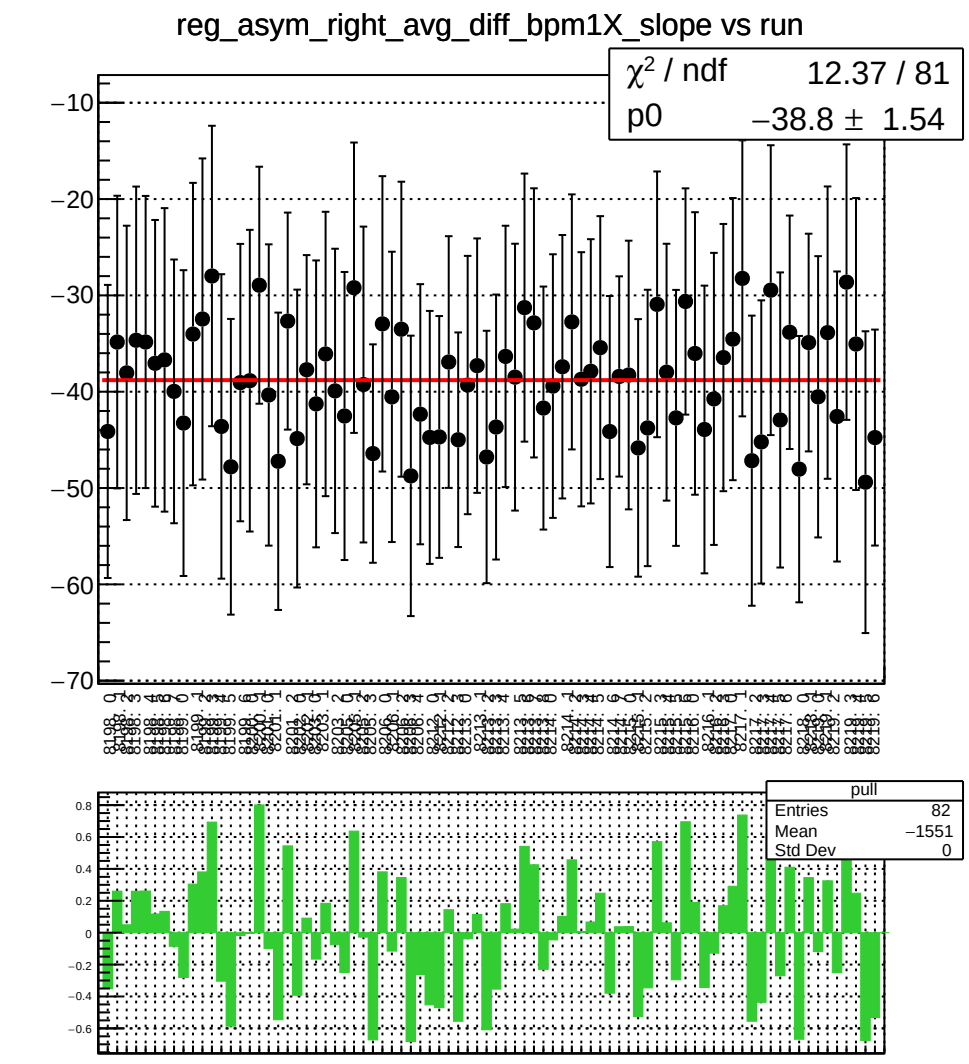

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.97 / 81
p0 −4.151 ± 0.6457
pull
Entries 82
Mean 106.2
Std Dev 0

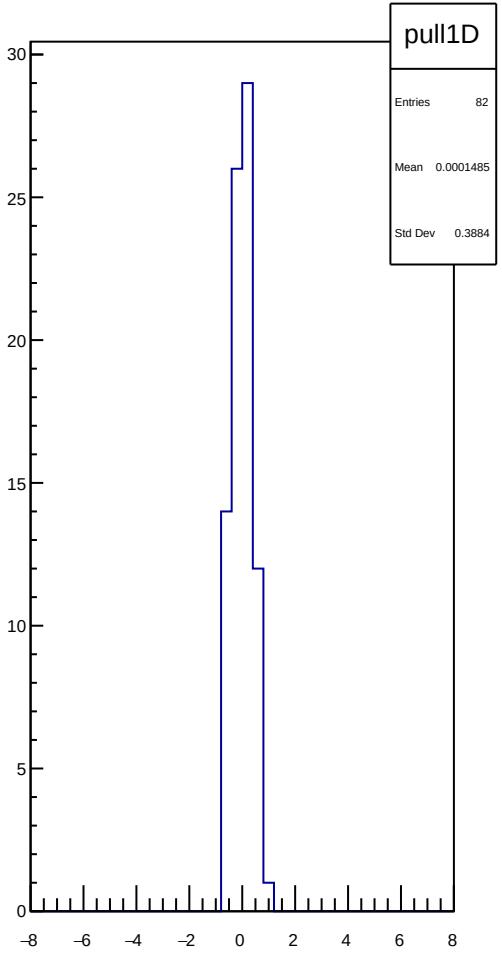

pull1D
Entries 82
Mean −0.01417
Std Dev 0.7067

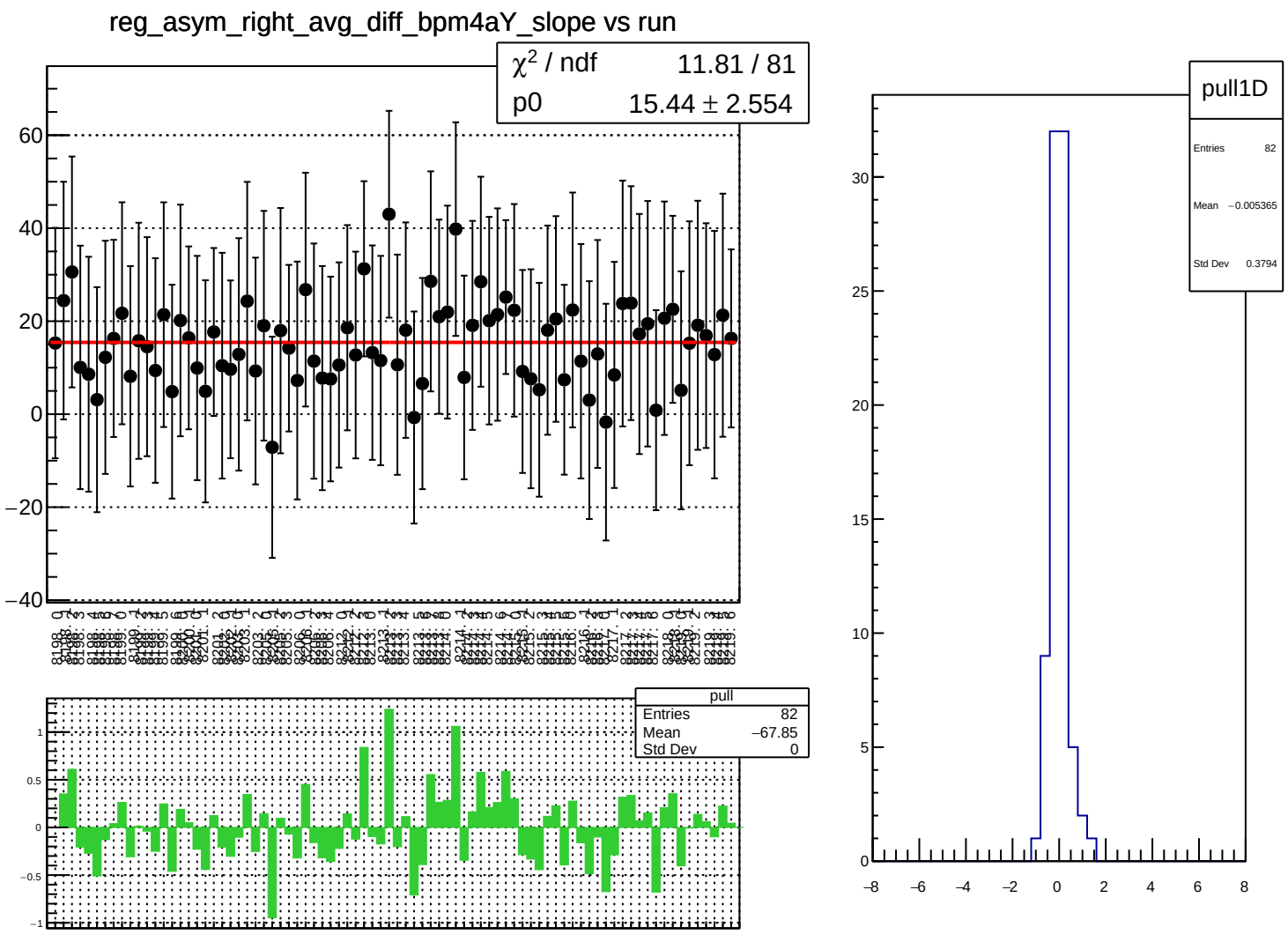

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.47 / 81
p0 6.189 ± 1.15
pull
Entries 82
Mean 156.9
Std Dev 0

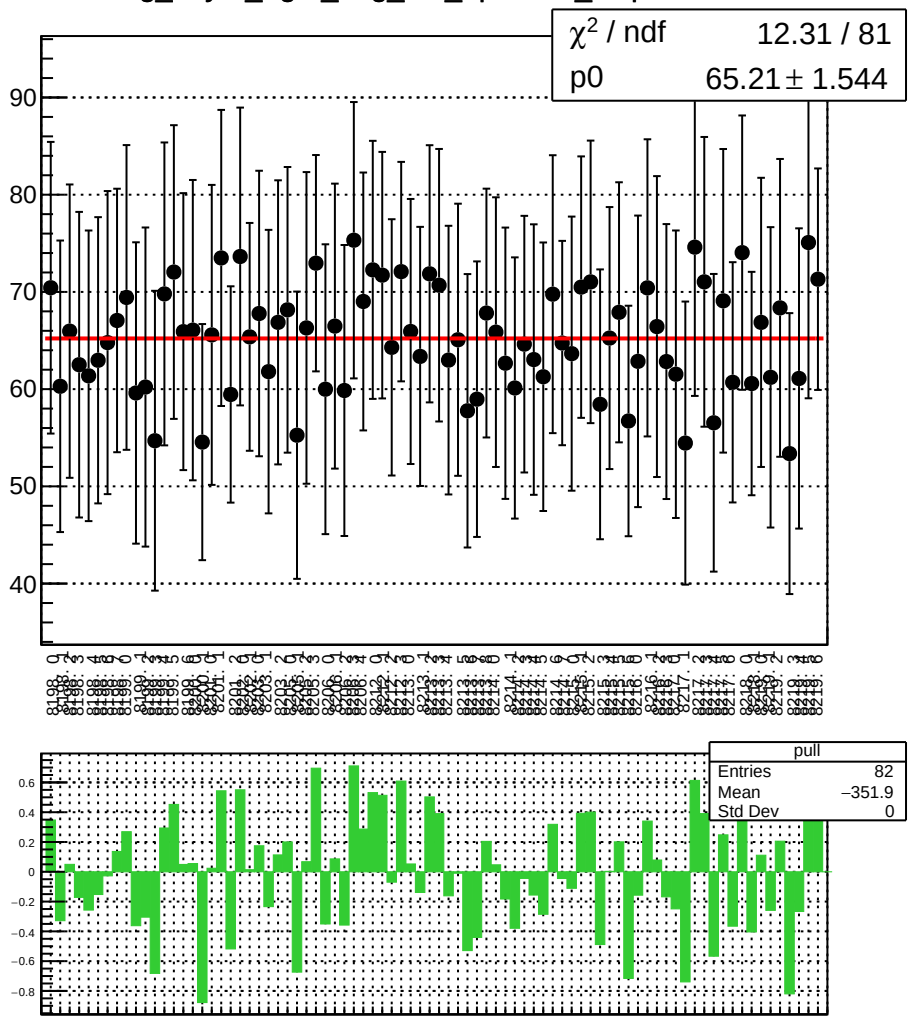

pull1D
Entries 82
Mean 0.005027
Std Dev 0.8867

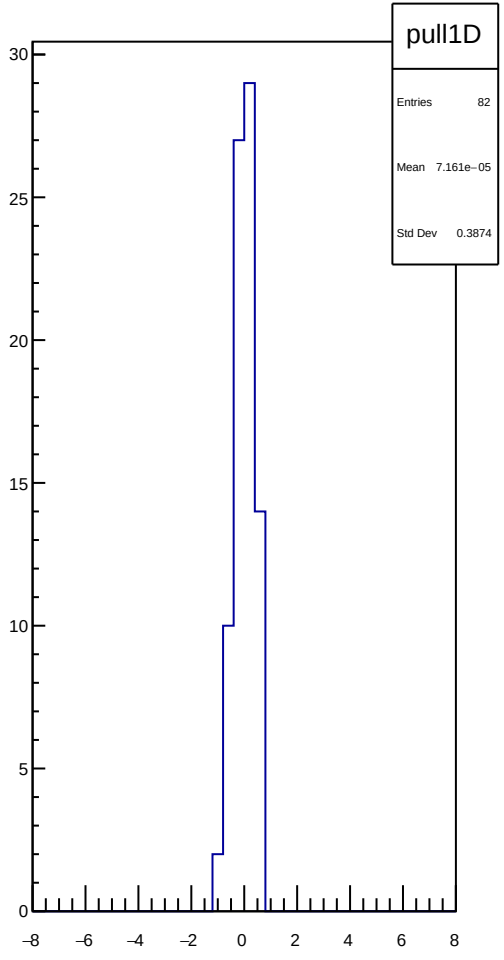

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 218.6 / 81
p0 −18.13 ± 0.05217
pull
Entries 82
Mean −377
Std Dev 0
pull1D
Entries 82
Mean −0.058
Std Dev 1.632

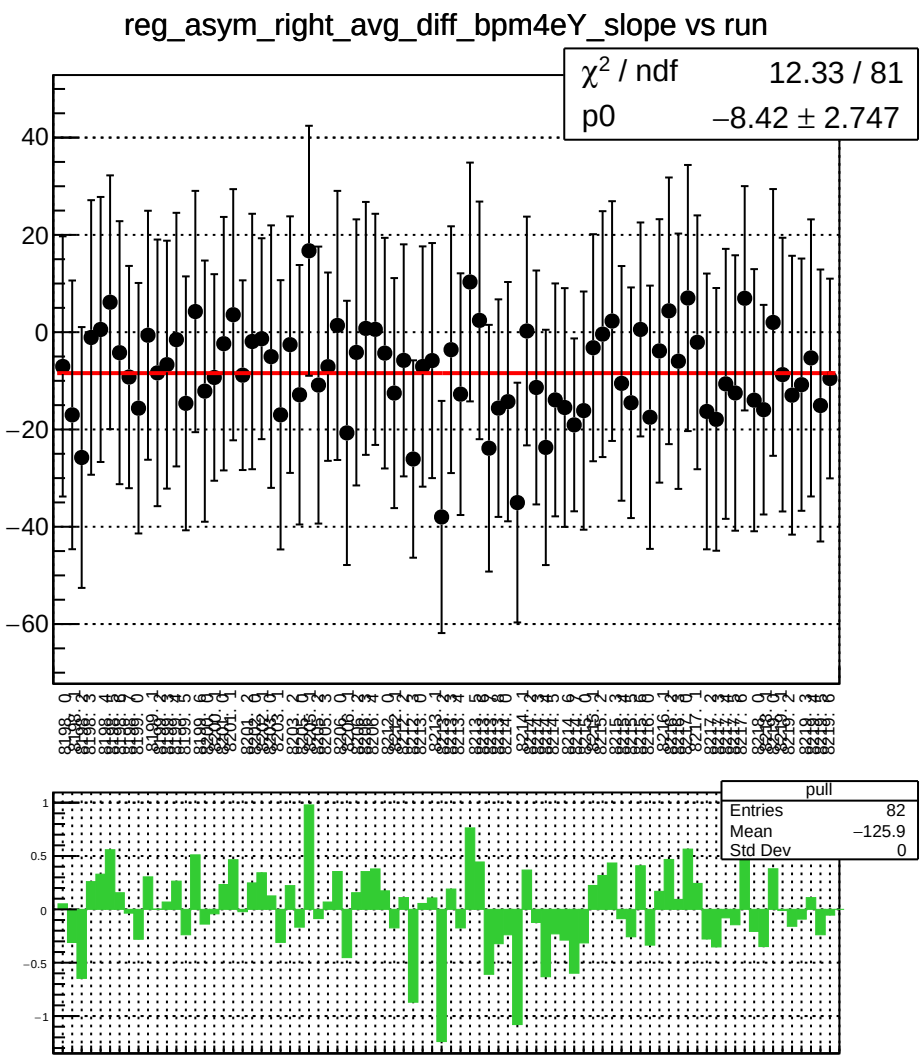

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 12.37 / 81
p0 −38.8 ± 1.54
pull
Entries 82
Mean −1551
Std Dev 0

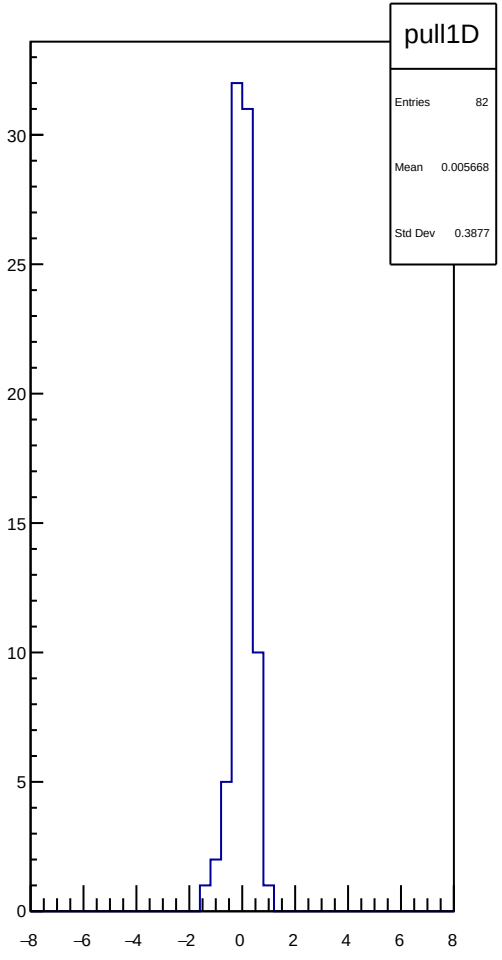

pull1D
Entries 82
Mean 0.0001485
Std Dev 0.3884

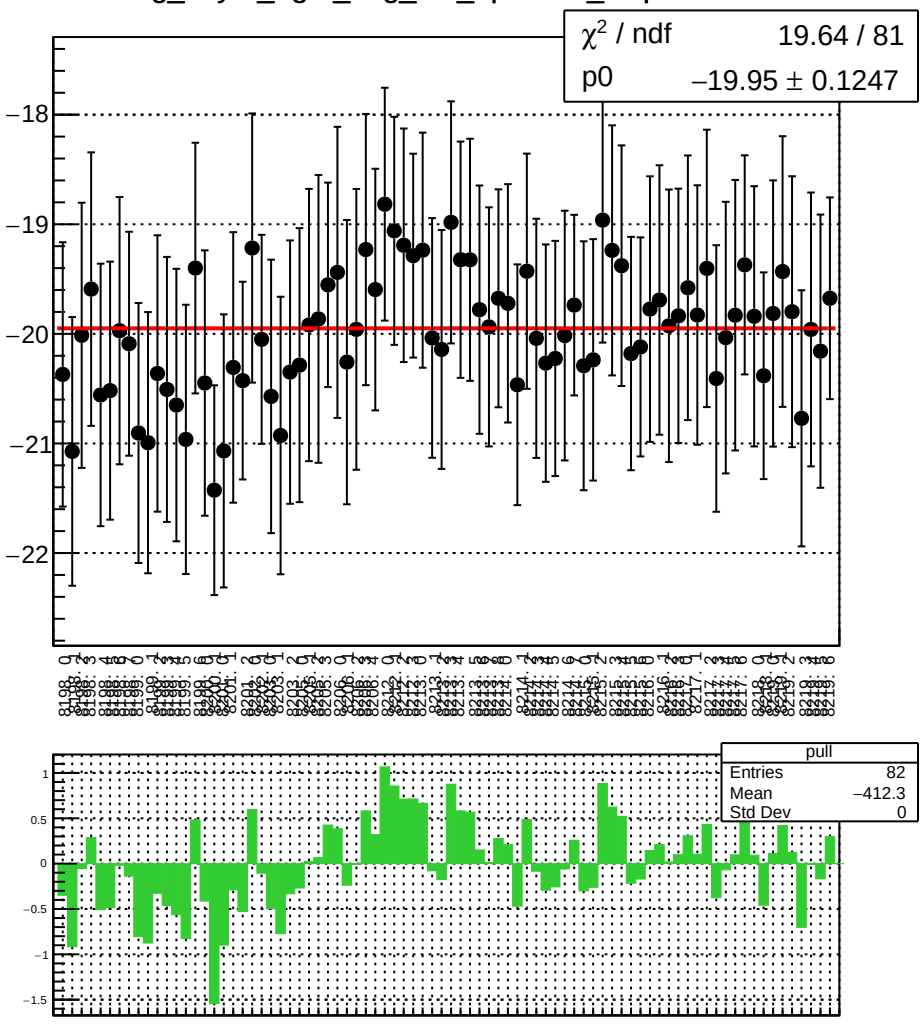

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.81 / 81
p0 15.44 ± 2.554
pull
Entries 82
Mean −67.85
Std Dev 0
pull1D
Entries 82
Mean −0.005365
Std Dev 0.3794

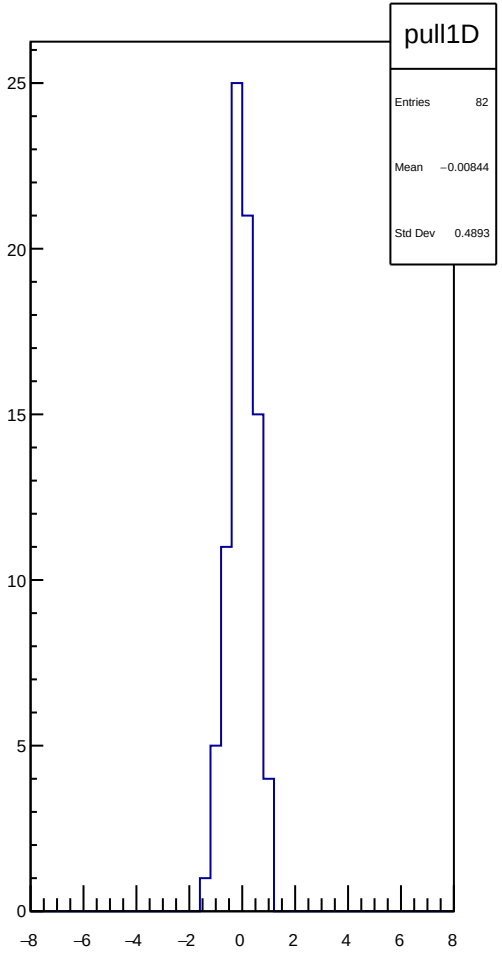

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.31 / 81
p0 65.21 ± 1.544
pull
Entries 82
Mean −351.9
Std Dev 0

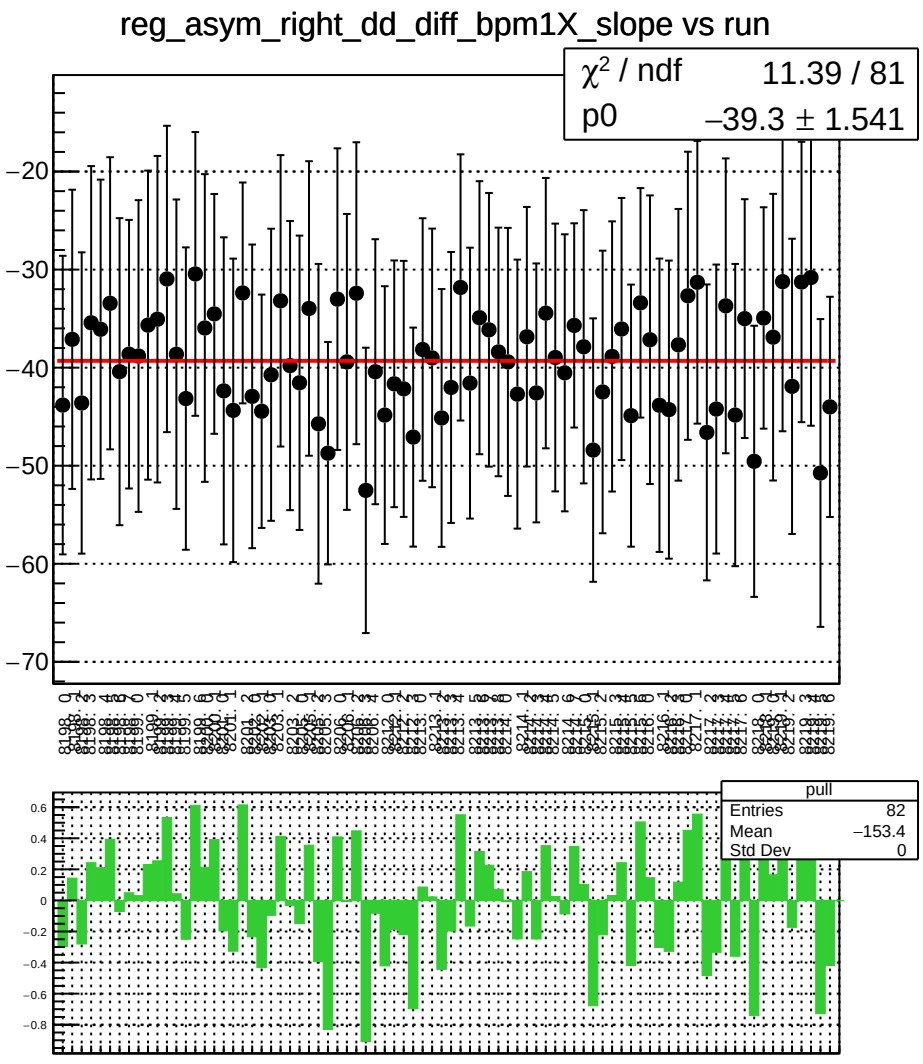

pull1D
Entries 82
Mean 7.161e−05
Std Dev 0.3874

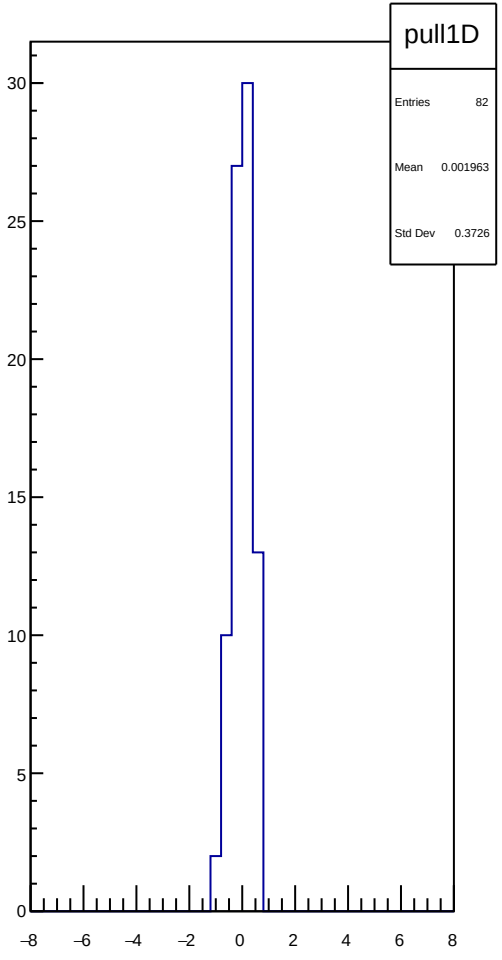

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.33 / 81
p0 −8.42 ± 2.747
pull
Entries 82
Mean −125.9
Std Dev 0

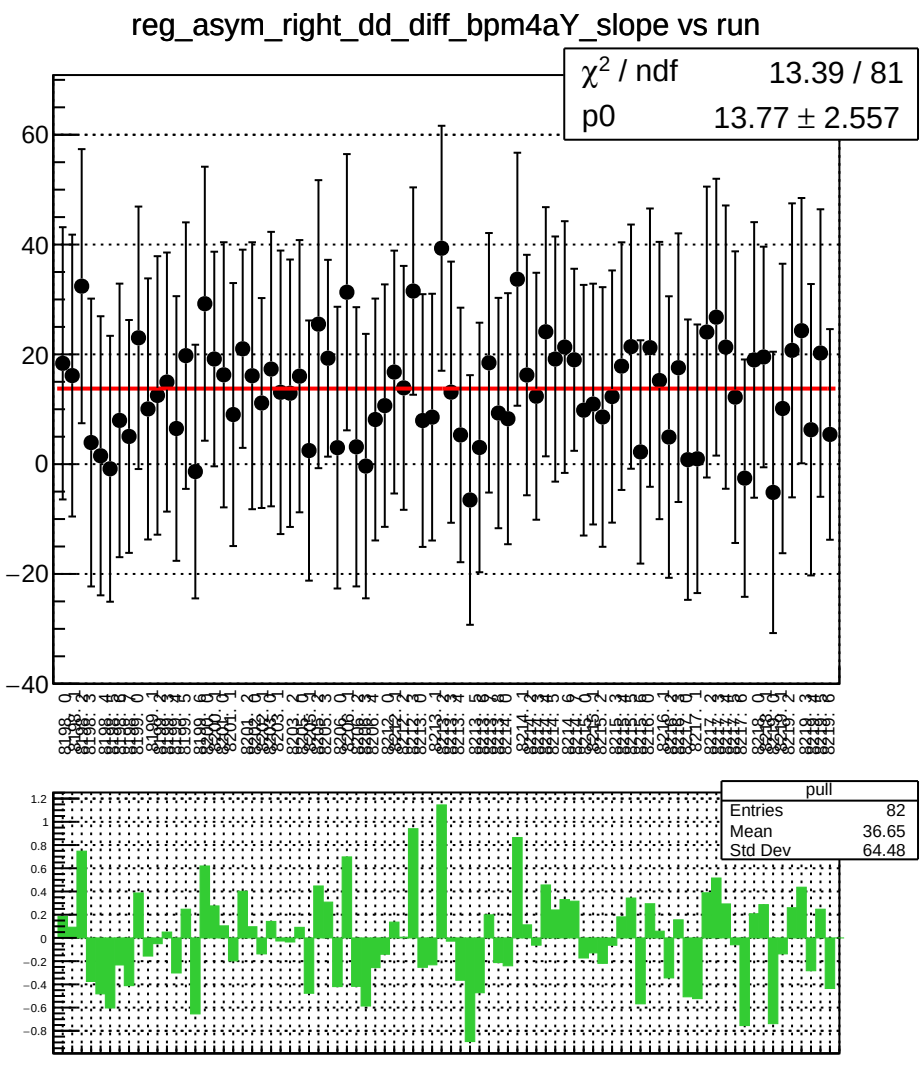

pull1D
Entries 82
Mean 0.005668
Std Dev 0.3877

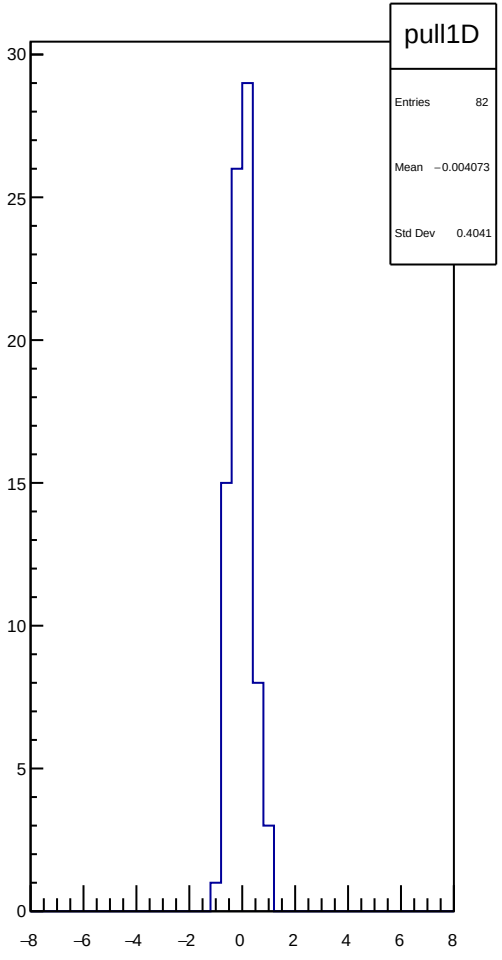

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 19.64 / 81
p0 −19.95 ± 0.1247
pull
Entries 82
Mean −412.3
Std Dev 0

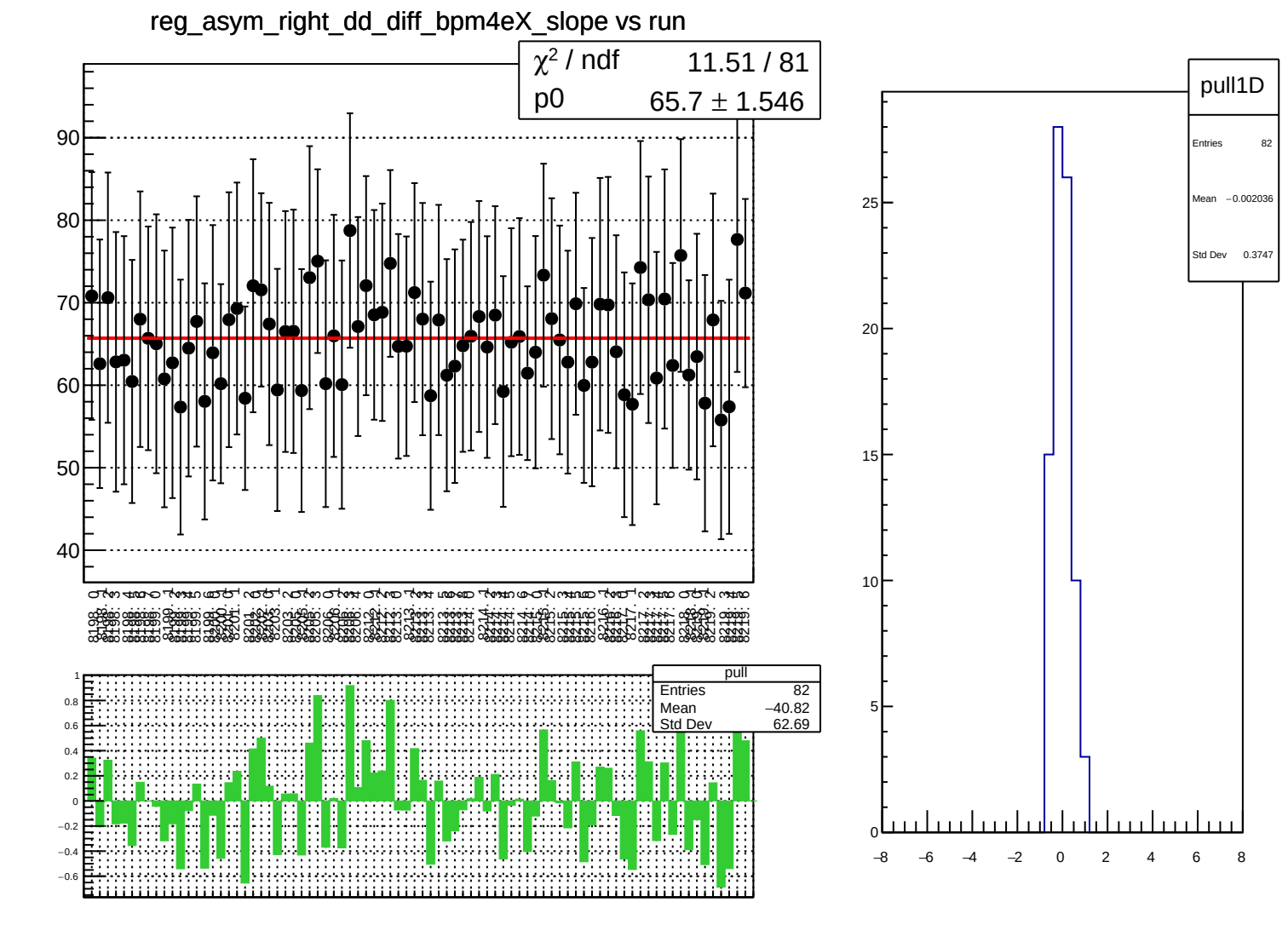

pull1D
Entries 82
Mean −0.00844
Std Dev 0.4893

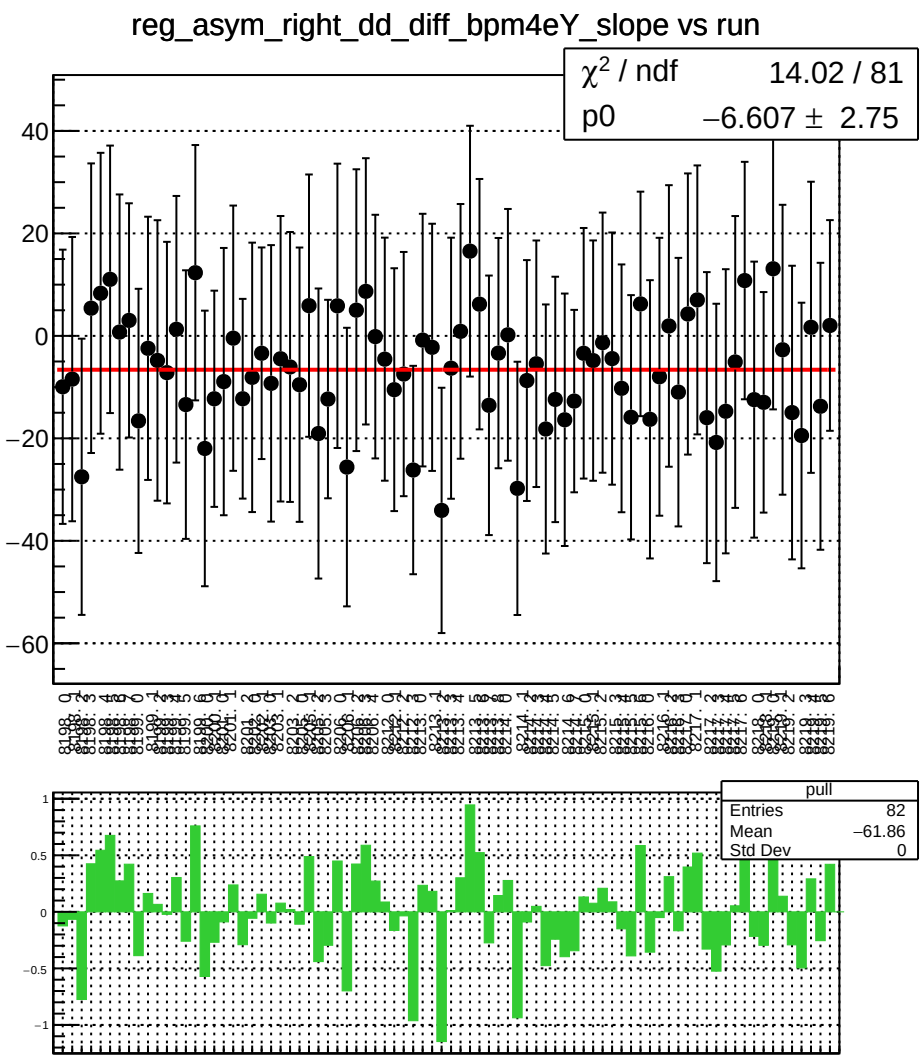

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 11.39 / 81
p0 −39.3 ± 1.541
pull
Entries 82
Mean −153.4
Std Dev 0

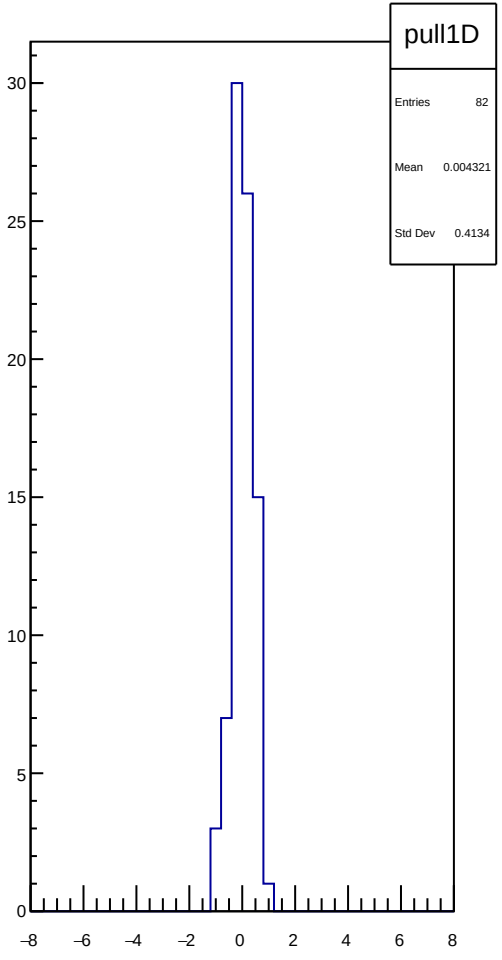

pull1D
Entries 82
Mean 0.001963
Std Dev 0.3726

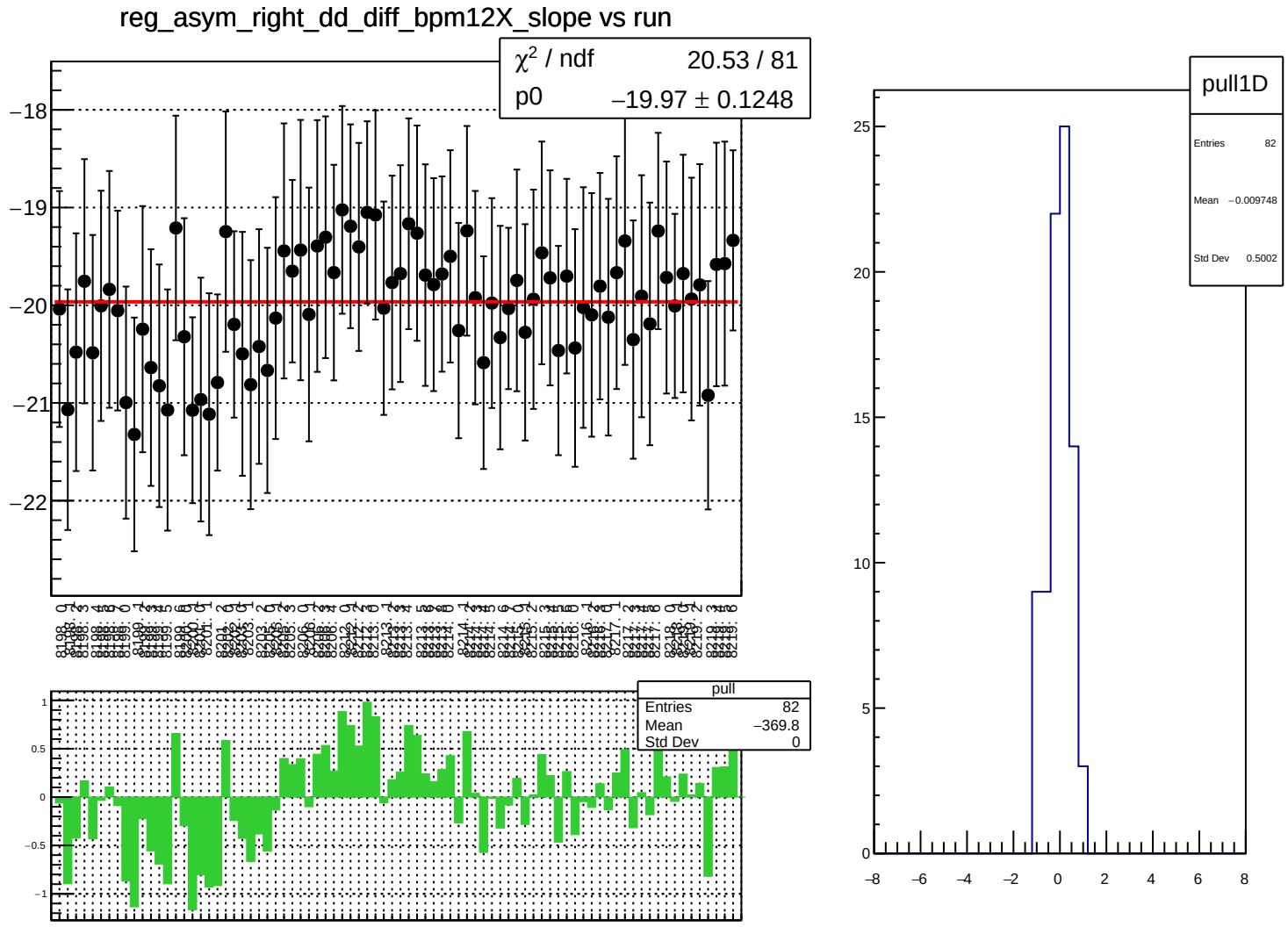

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.39 / 81
p0 13.77 ± 2.557
pull
Entries 82
Mean 36.65
Std Dev 64.48

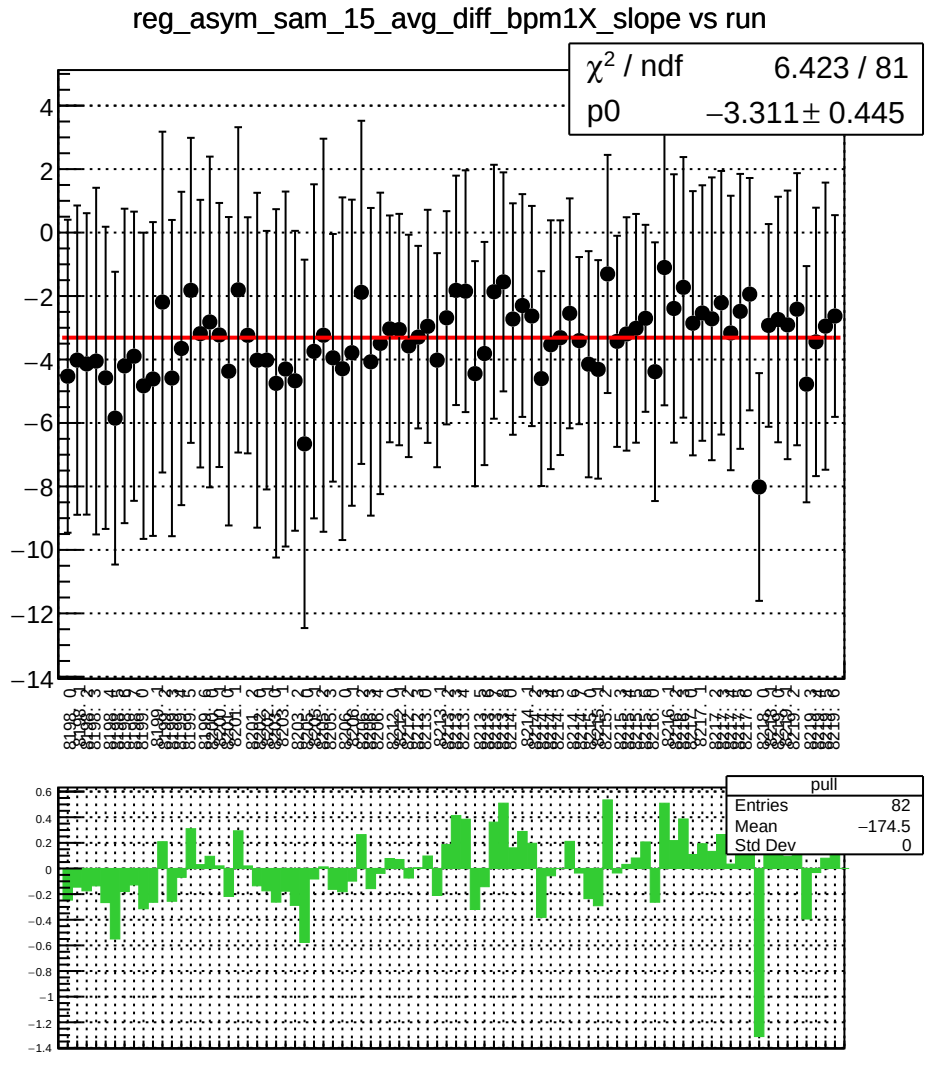

pull1D
Entries 82
Mean −0.004073
Std Dev 0.4041

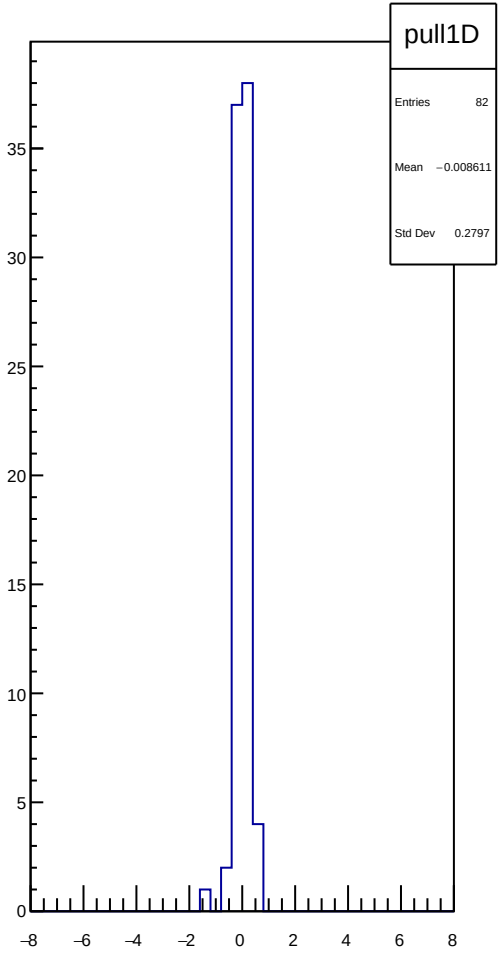

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.51 / 81
p0 65.7 ± 1.546
pull
Entries 82
Mean −40.82
Std Dev 62.69
pull1D
Entries 82
Mean −0.002036
Std Dev 0.3747

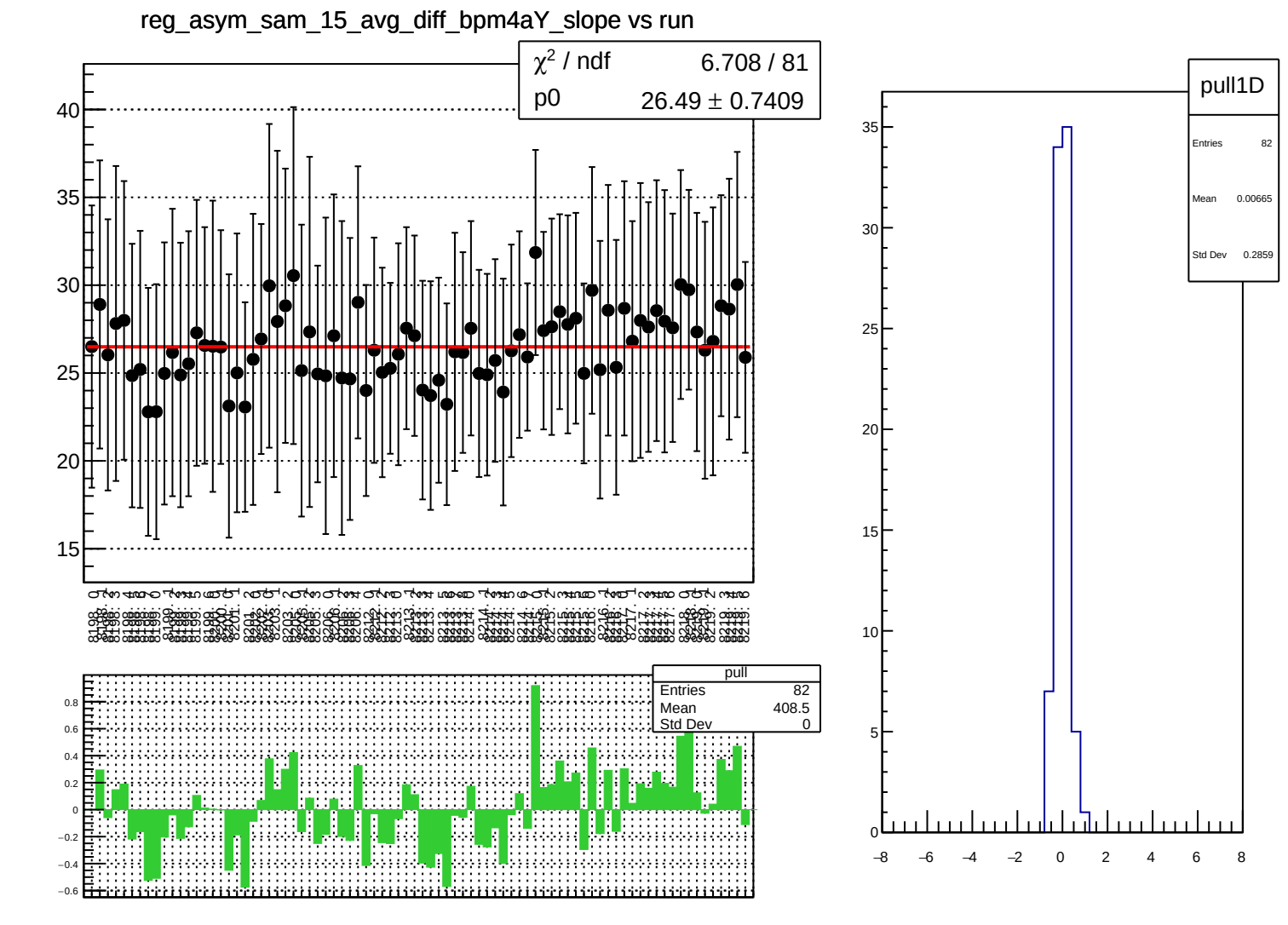

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.02 / 81
p0 −6.607 ± 2.75
pull
Entries 82
Mean −61.86
Std Dev 0

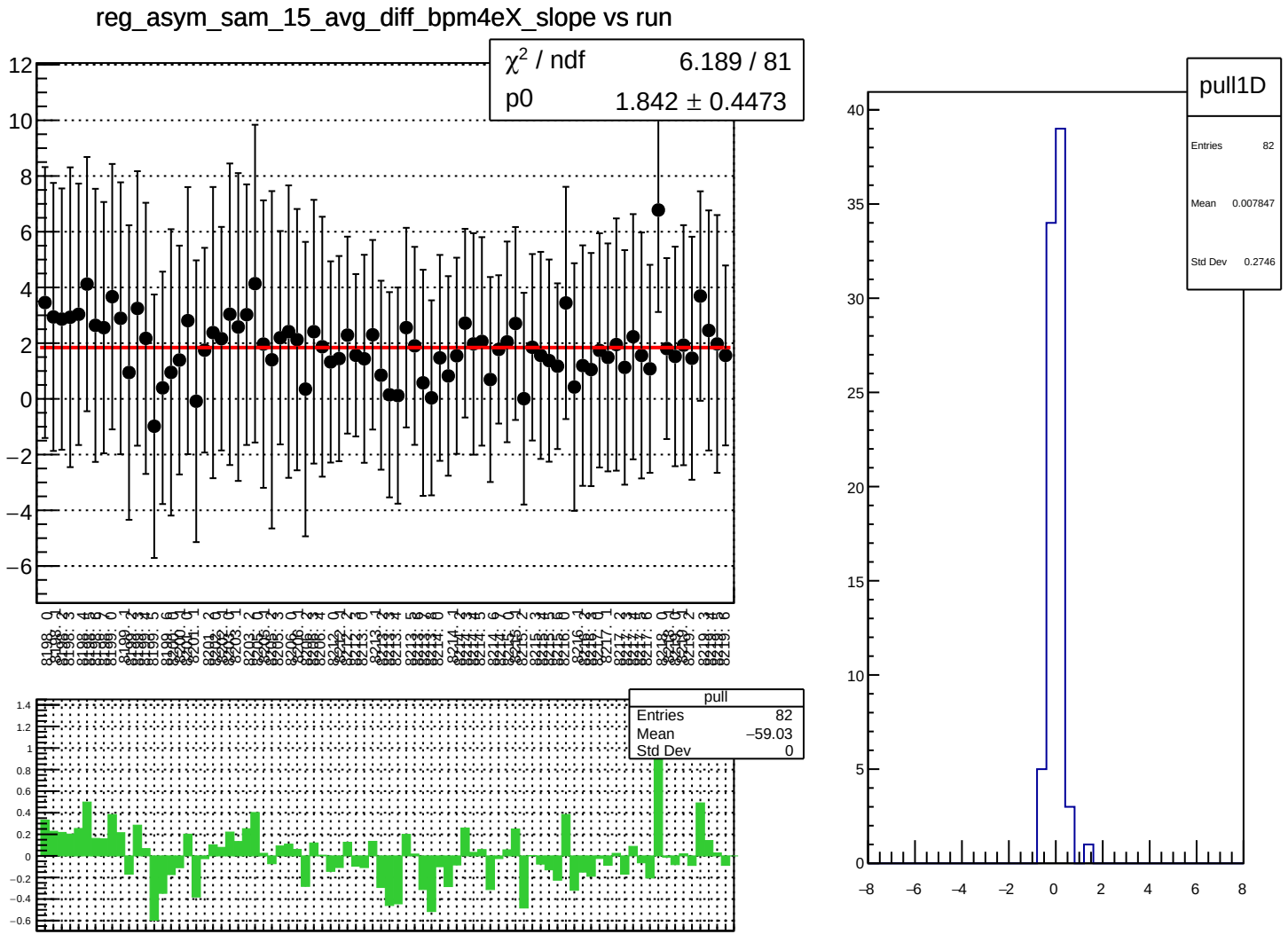

pull1D
Entries 82
Mean 0.004321
Std Dev 0.4134

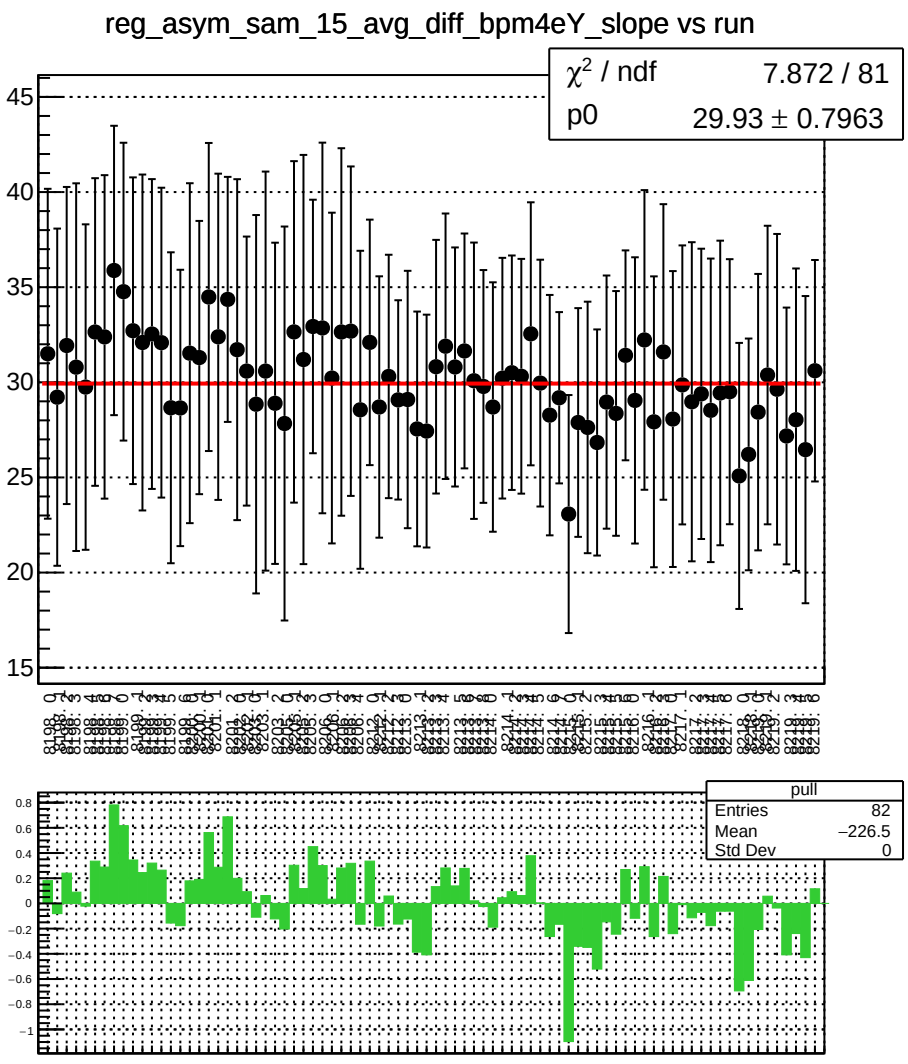

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 20.53 / 81
p0 −19.97 ± 0.1248
−18
−19
−20
−21
−22
pull
Entries 82
Mean −369.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 82
Mean −0.009748
Std Dev 0.5002
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

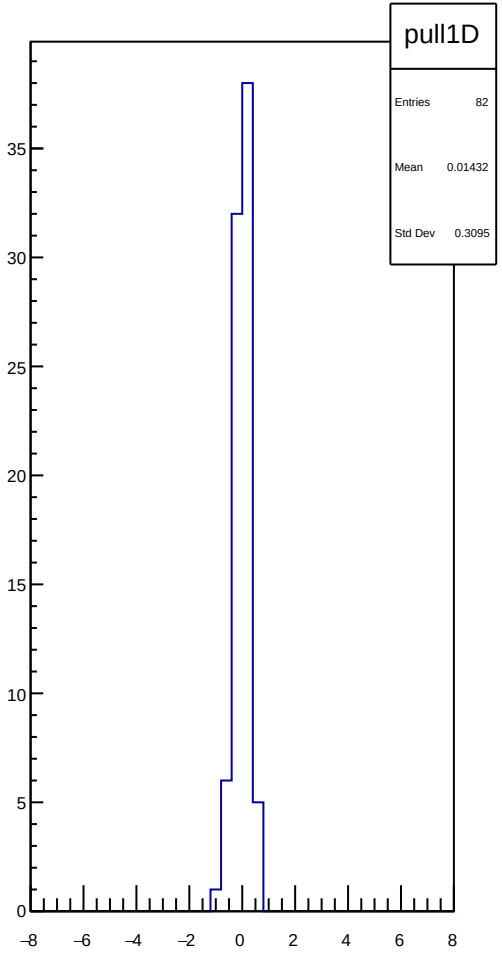

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 6.423 / 81
p0 −3.311 ± 0.445
pull
Entries 82
Mean −174.5
Std Dev 0

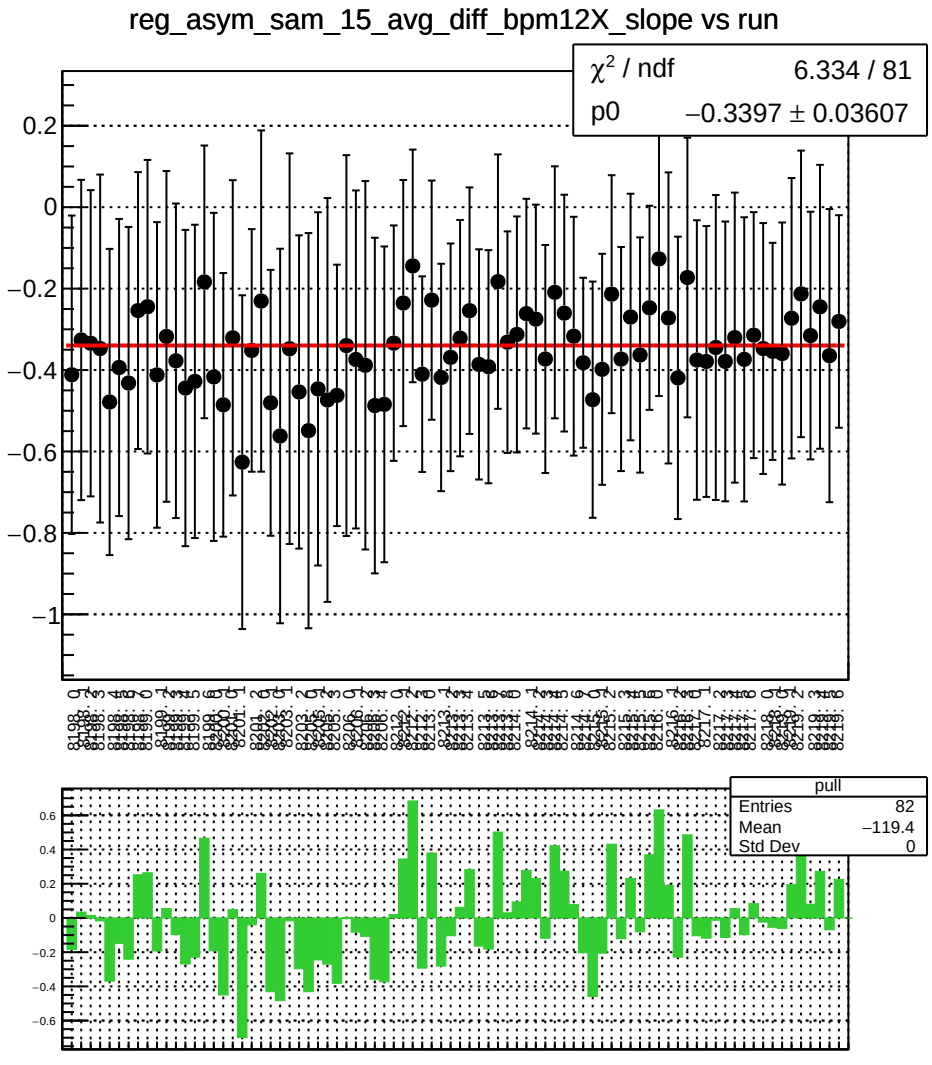

pull1D
Entries 82
Mean −0.008611
Std Dev 0.2797

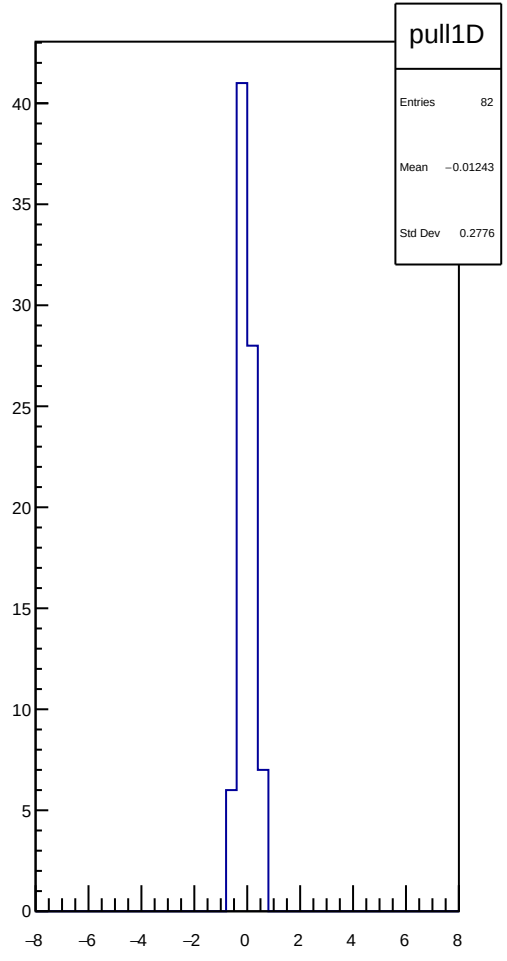

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.708 / 81
p0 26.49 ± 0.7409
pull
Entries 82
Mean 408.5
Std Dev 0
pull1D
Entries 82
Mean 0.00665
Std Dev 0.2859

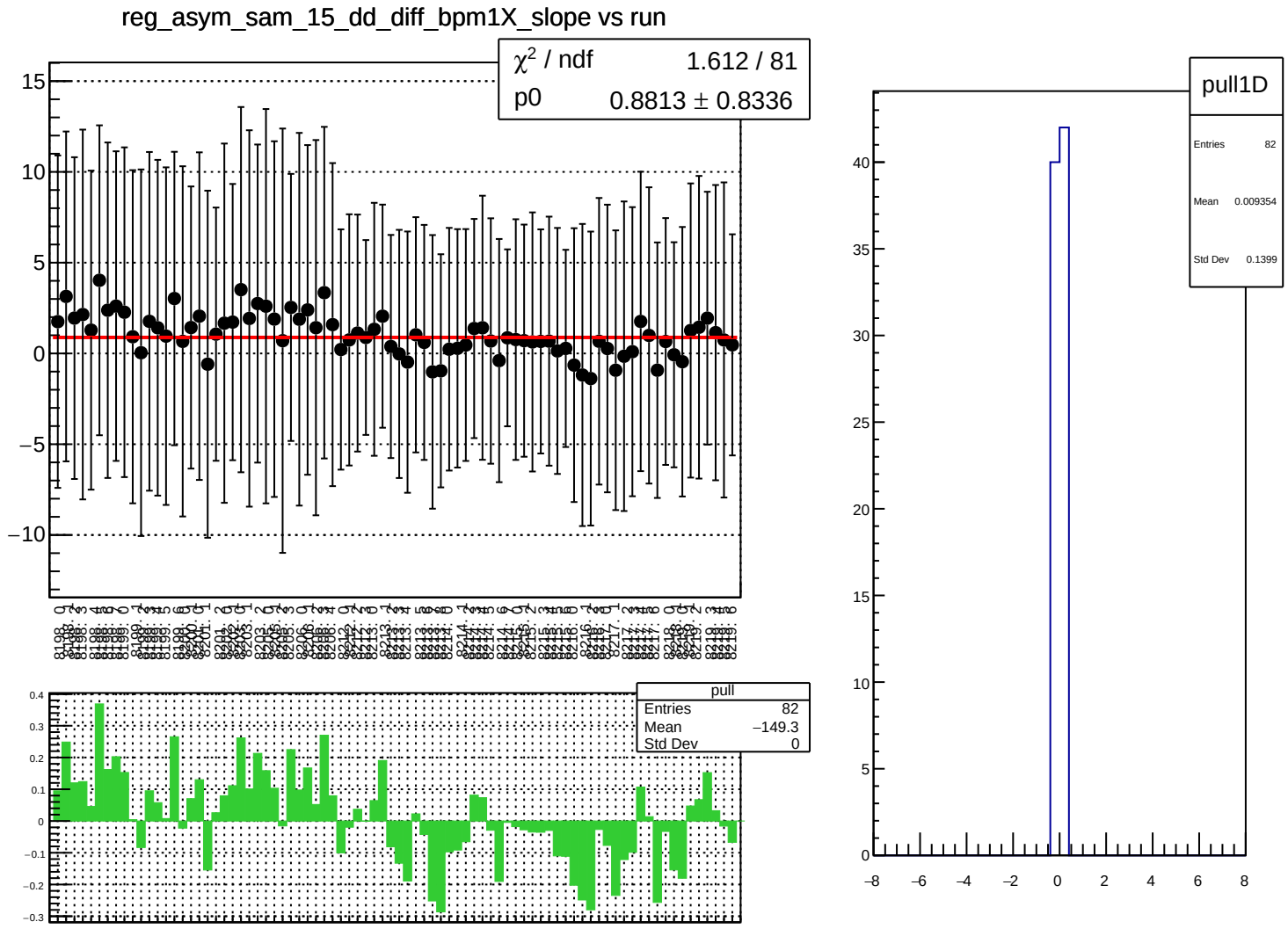

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.189 / 81
p0 1.842 ± 0.4473
pull
Entries 82
Mean −59.03
Std Dev 0
pull1D
Entries 82
Mean 0.007847
Std Dev 0.2746

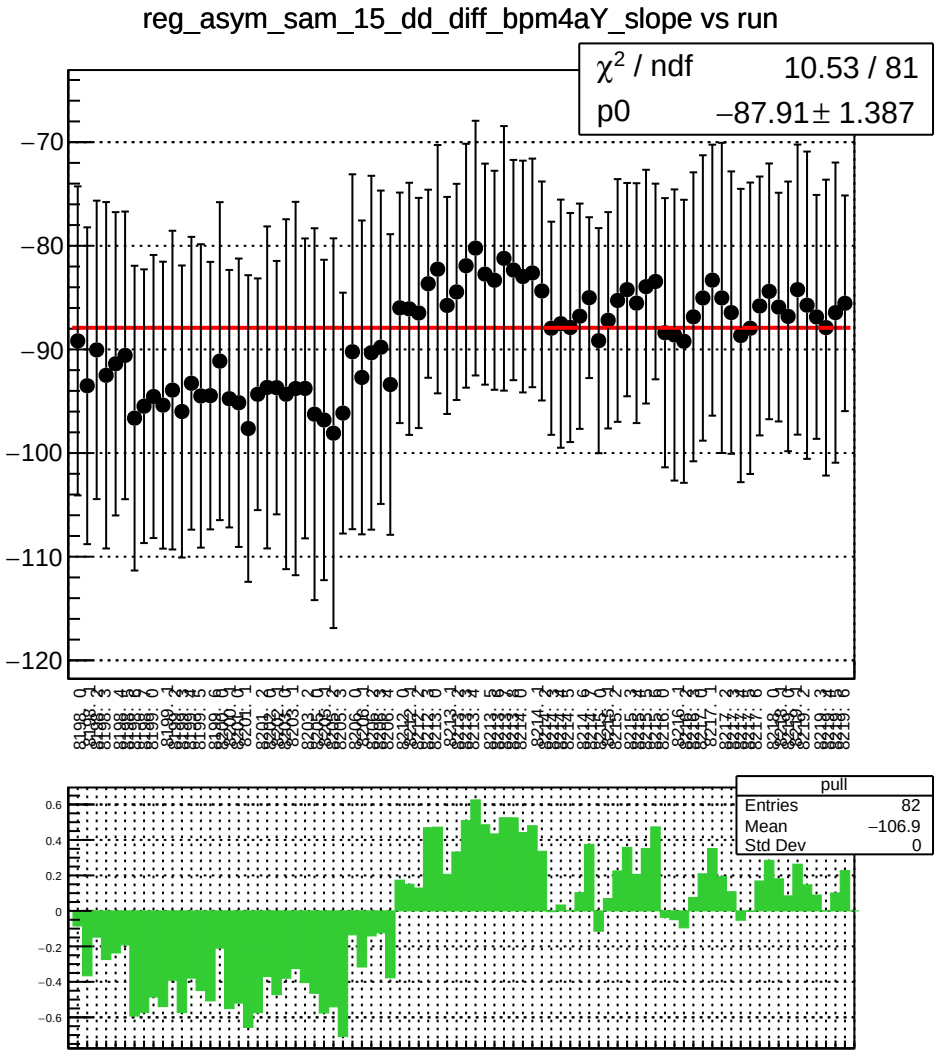

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.872 / 81
p0 29.93 ± 0.7963
pull
Entries 82
Mean −226.5
Std Dev 0

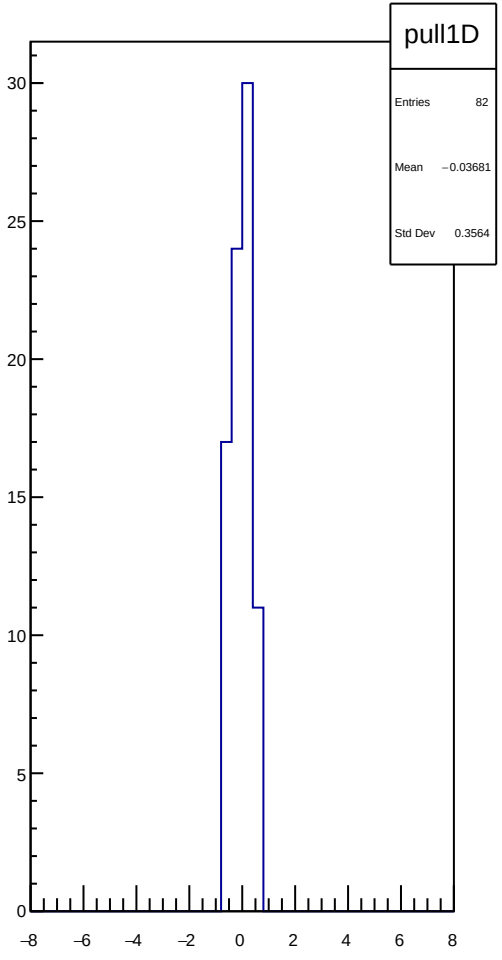

pull1D
Entries 82
Mean 0.01432
Std Dev 0.3095

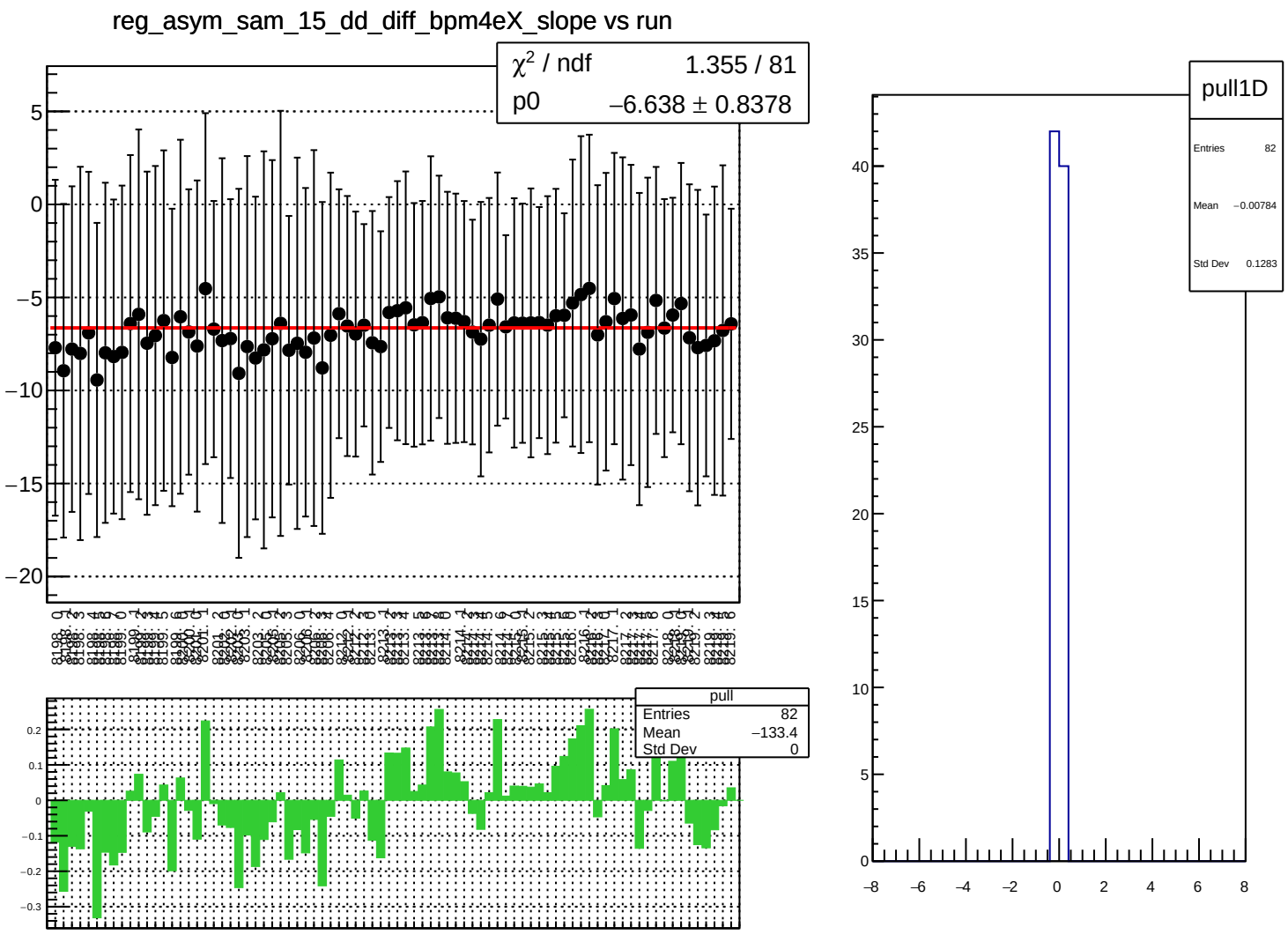

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 6.334 / 81
p0 −0.3397 ± 0.03607
pull
Entries 82
Mean −119.4
Std Dev 0

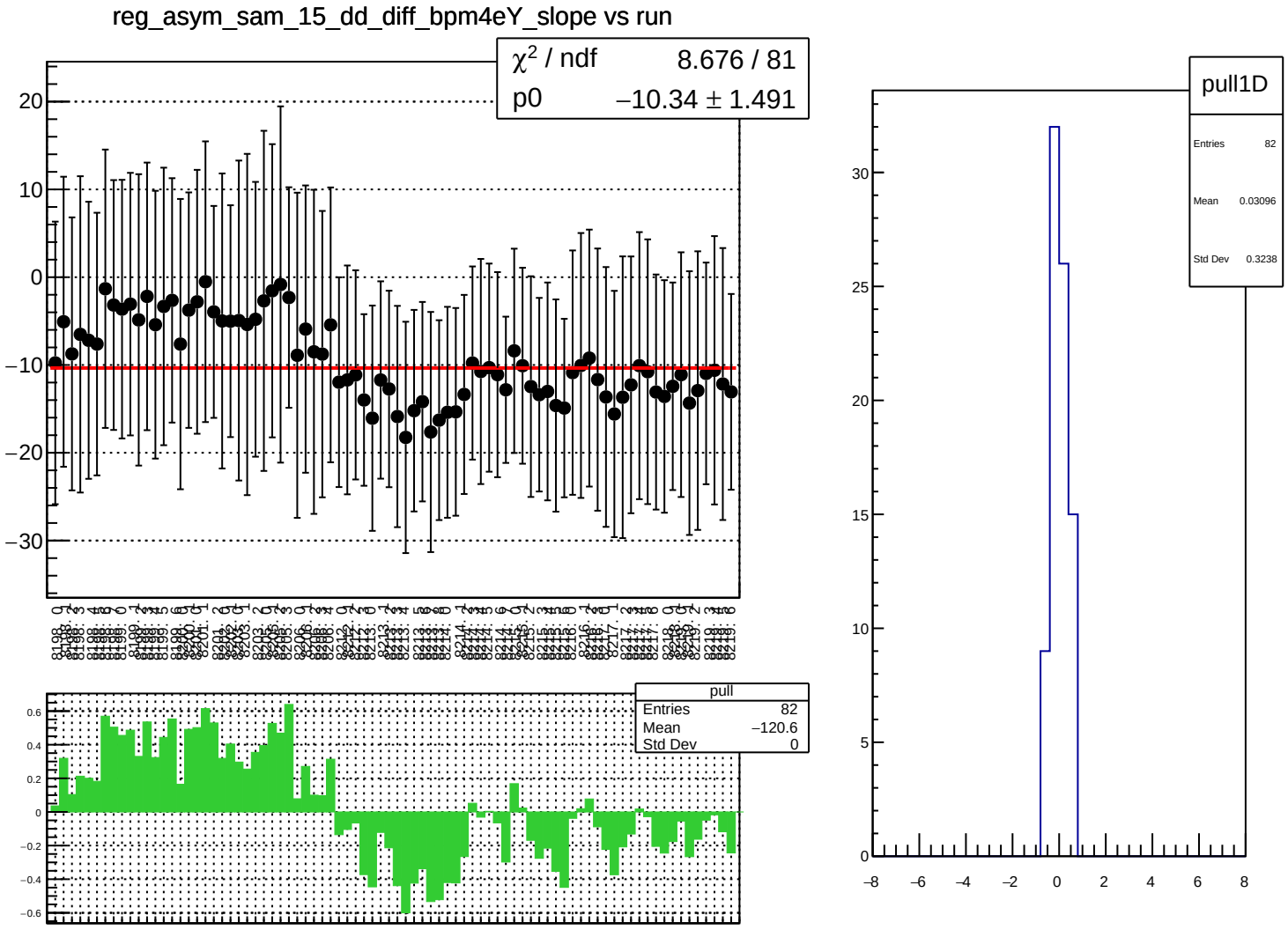

pull1D
Entries 82
Mean −0.01243
Std Dev 0.2776

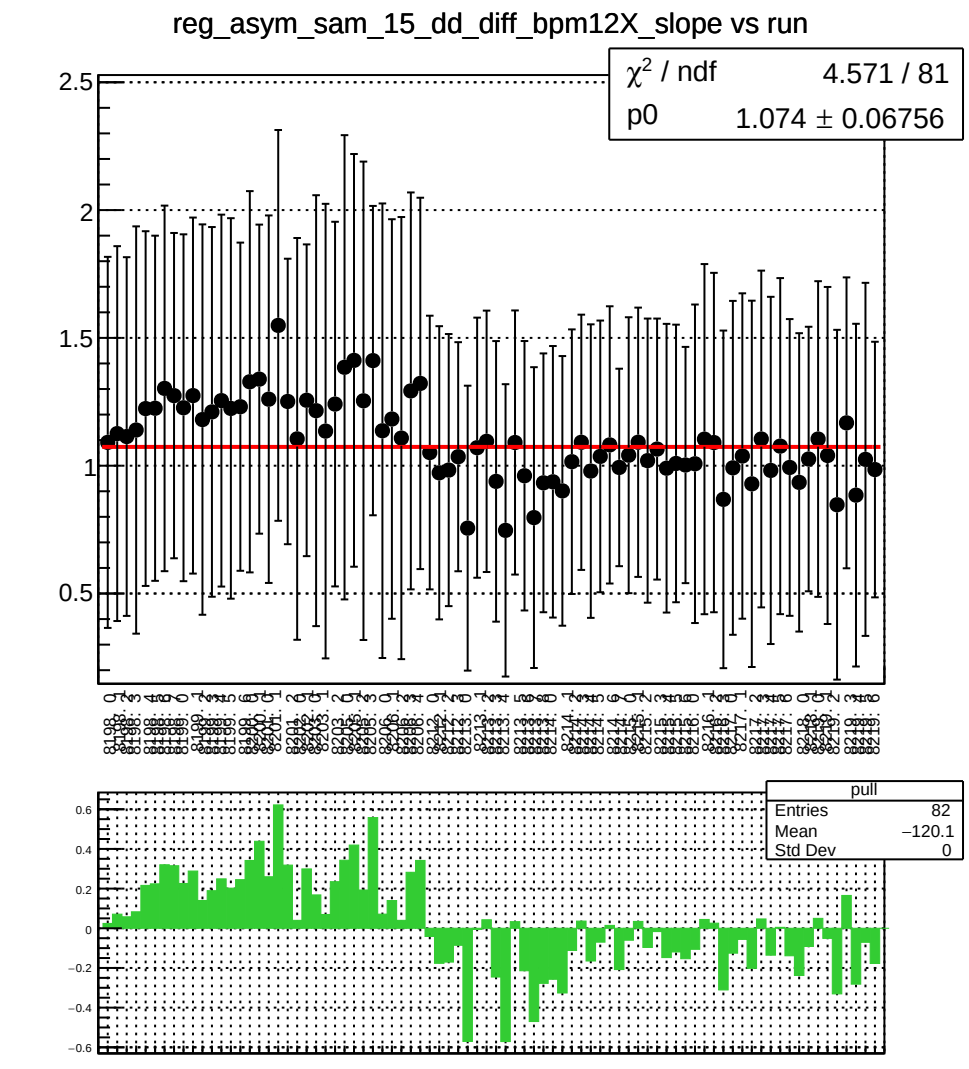

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 1.612 / 81
p0 0.8813 ± 0.8336
pull
Entries 82
Mean −149.3
Std Dev 0
pull1D
Entries 82
Mean 0.009354
Std Dev 0.1399

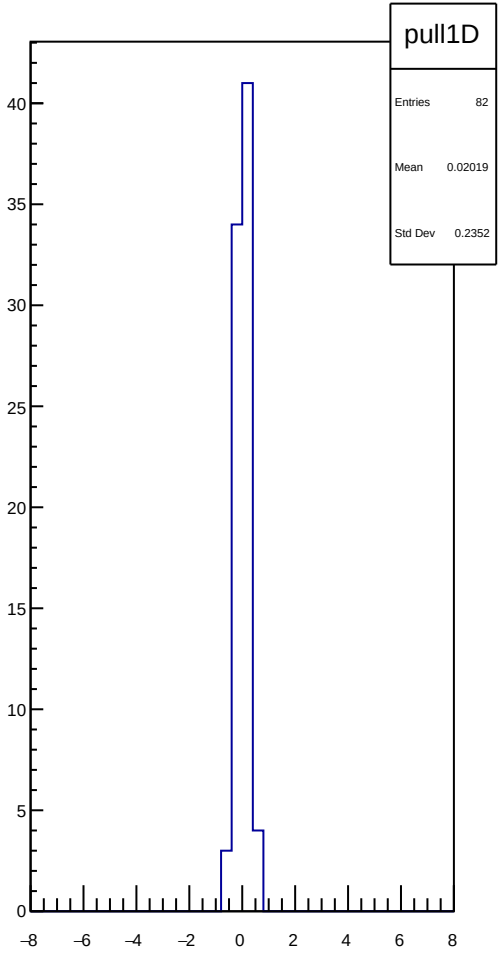

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.53 / 81
p0 −87.91 ± 1.387
−70
−80
−90
−100
−110
−120
pull
Entries 82
Mean −106.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

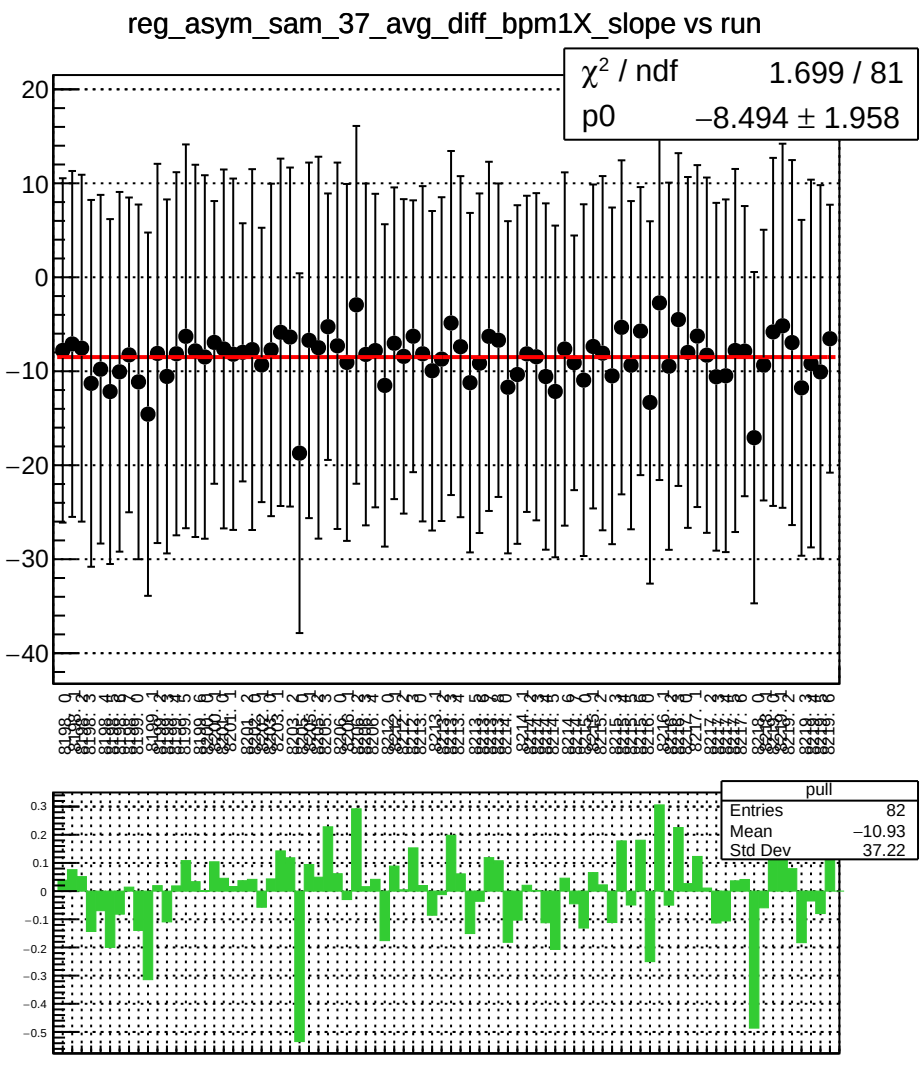

pull1D
Entries 82
Mean −0.03681
Std Dev 0.3564
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

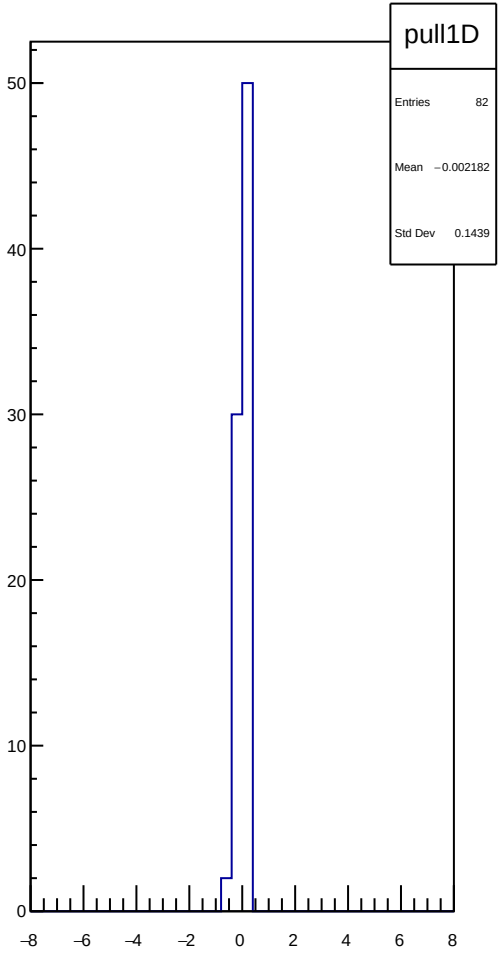

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.355 / 81
p0 −6.638 ± 0.8378
pull
Entries 82
Mean −133.4
Std Dev 0
pull1D
Entries 82
Mean −0.00784
Std Dev 0.1283

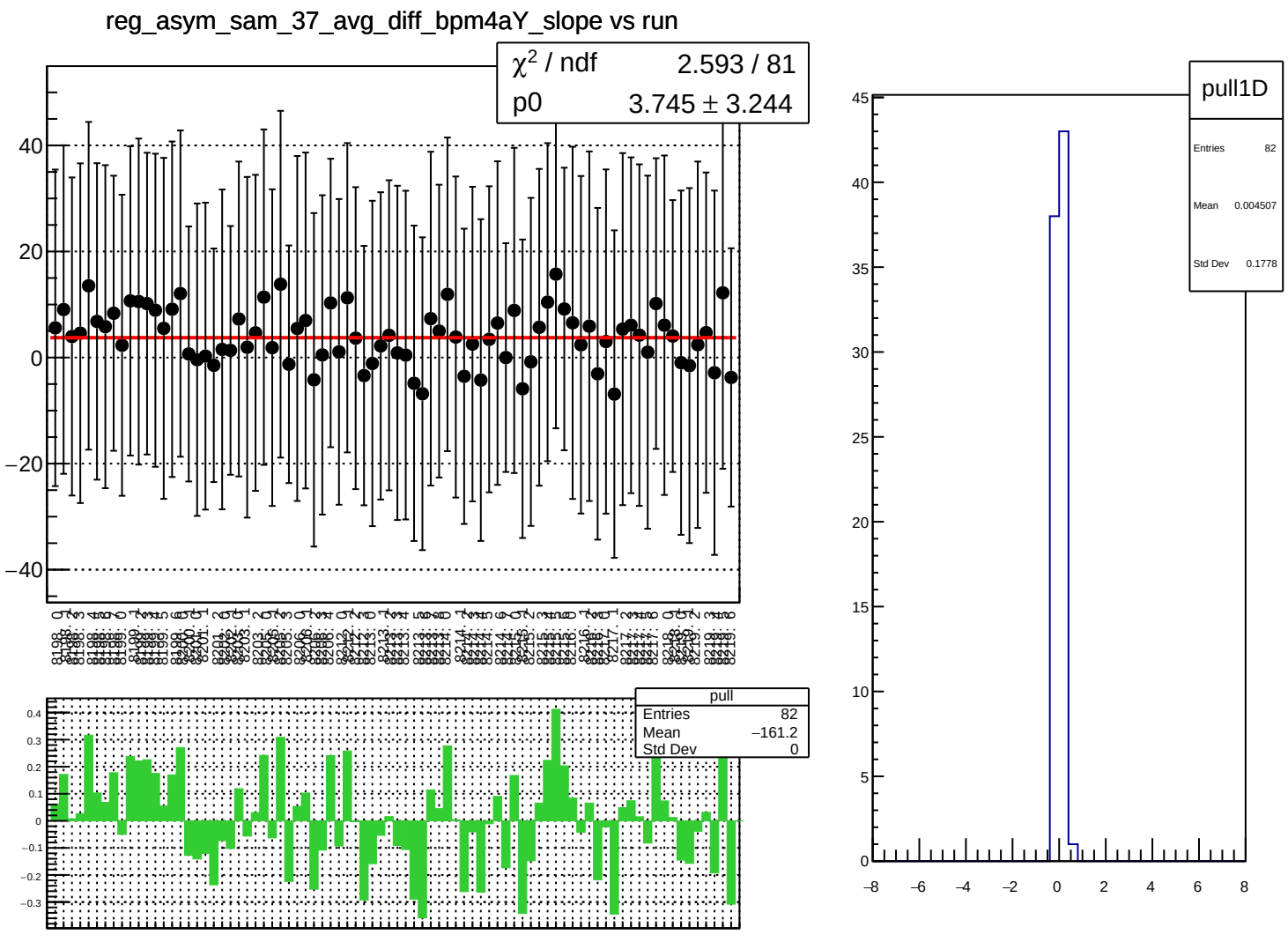

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.676 / 81
p0 −10.34 ± 1.491
pull
Entries 82
Mean −120.6
Std Dev 0
pull1D
Entries 82
Mean 0.03096
Std Dev 0.3238

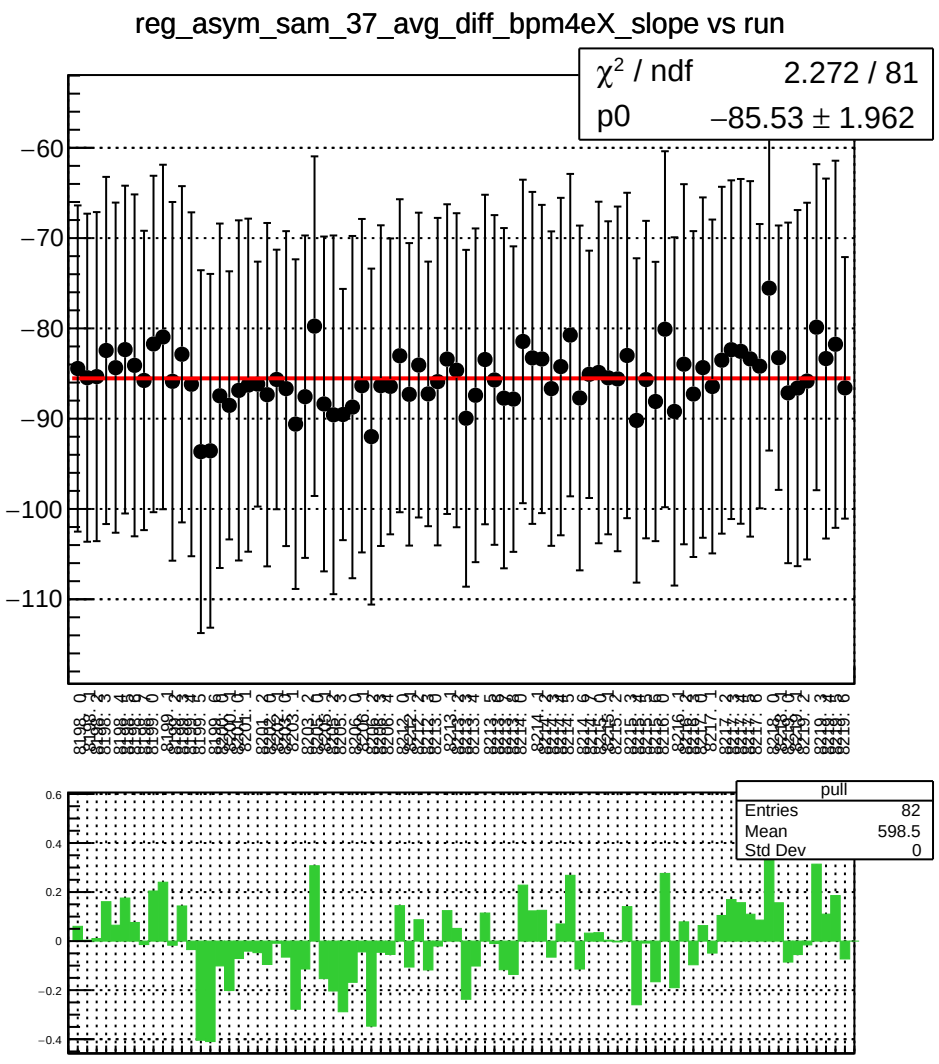

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 4.571 / 81
p0 1.074 ± 0.06756
pull
Entries 82
Mean −120.1
Std Dev 0

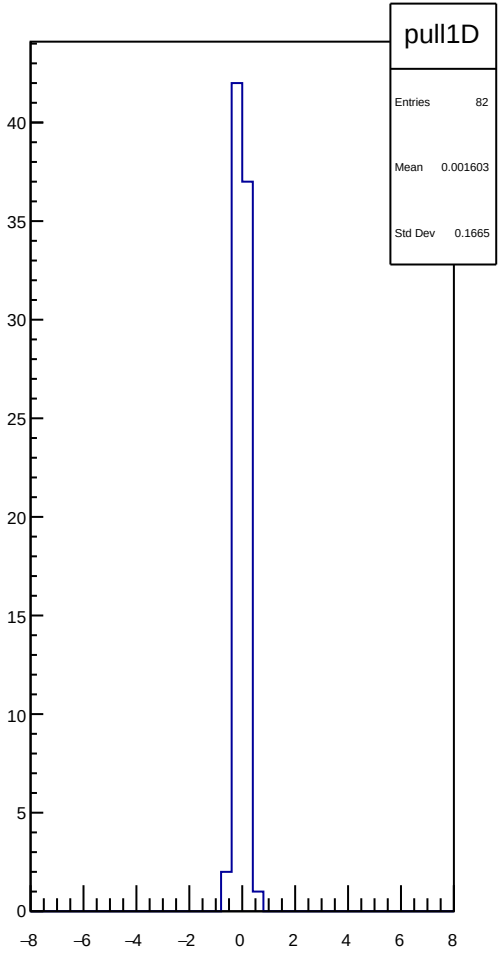

pull1D
Entries 82
Mean 0.02019
Std Dev 0.2352

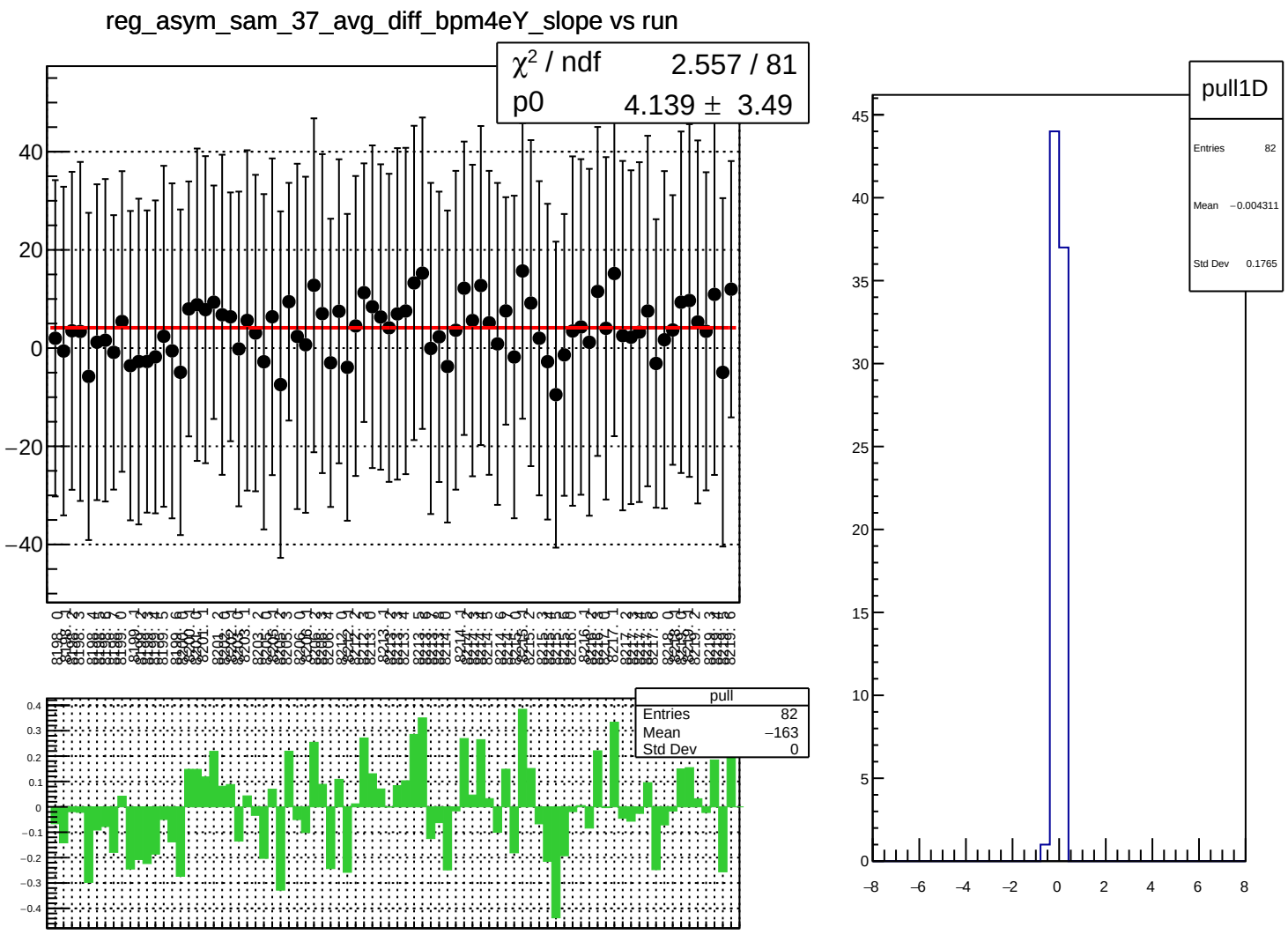

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 1.699 / 81
p0 −8.494 ± 1.958
pull
Entries 82
Mean −10.93
Std Dev 37.22

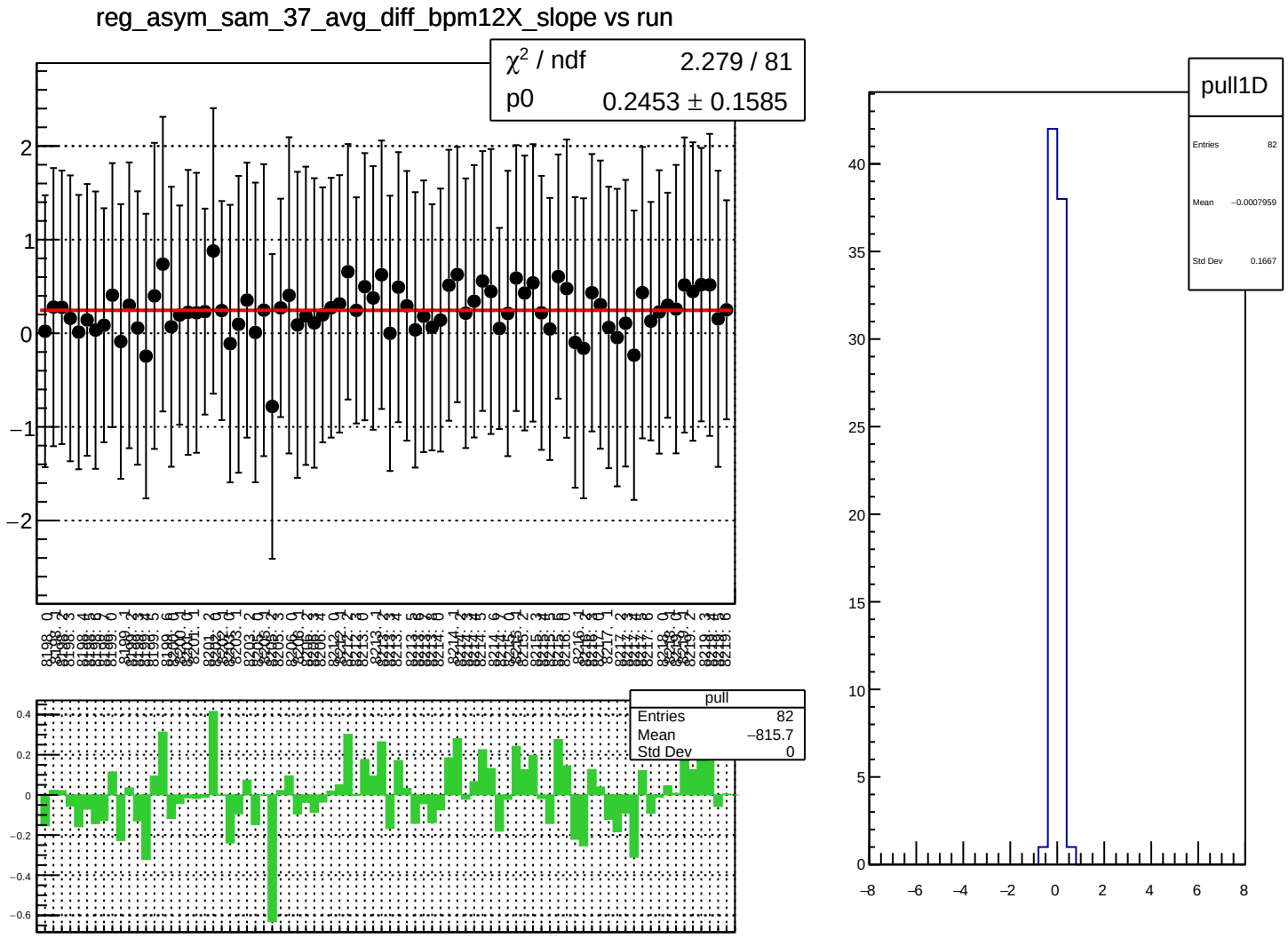

pull1D
Entries 82
Mean −0.002182
Std Dev 0.1439

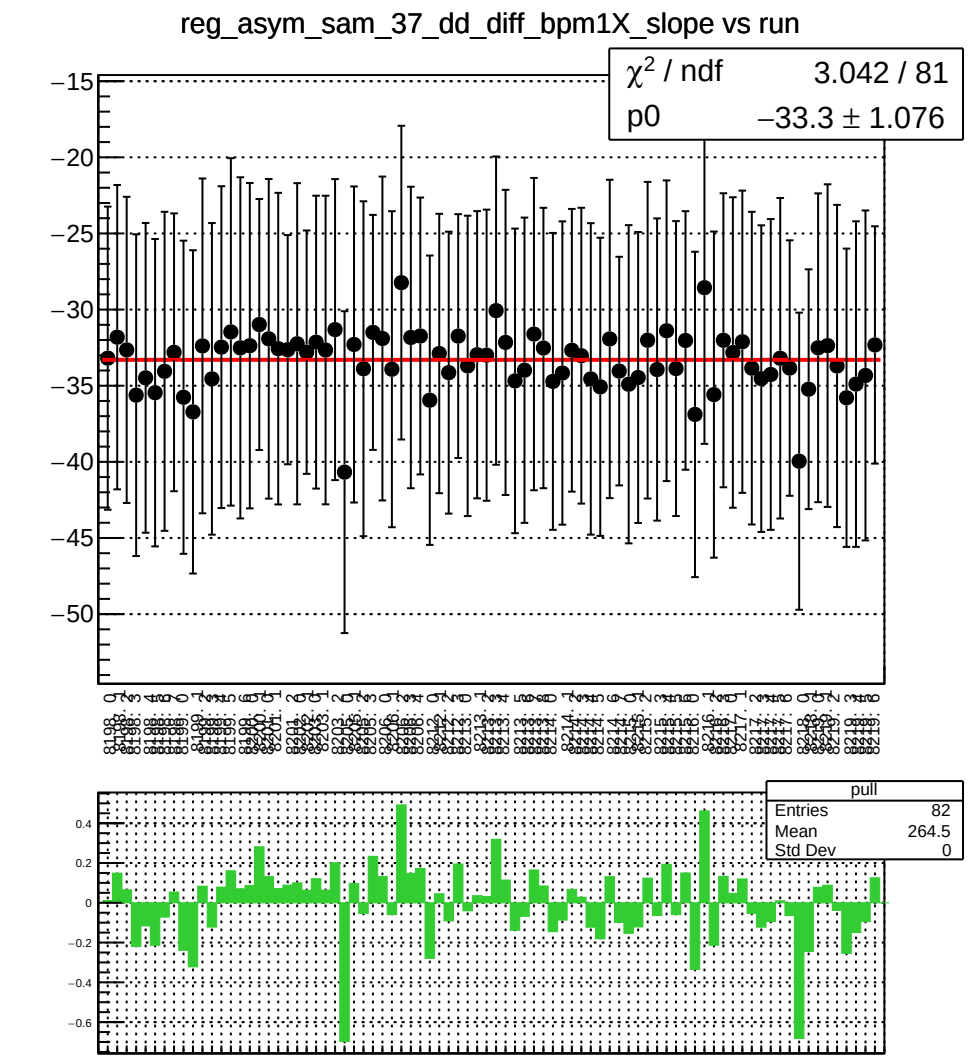

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.593 / 81
p0 3.745 ± 3.244
40
20
0
−20
−40
pull
Entries 82
Mean −161.2
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 82
Mean 0.004507
Std Dev 0.1778
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

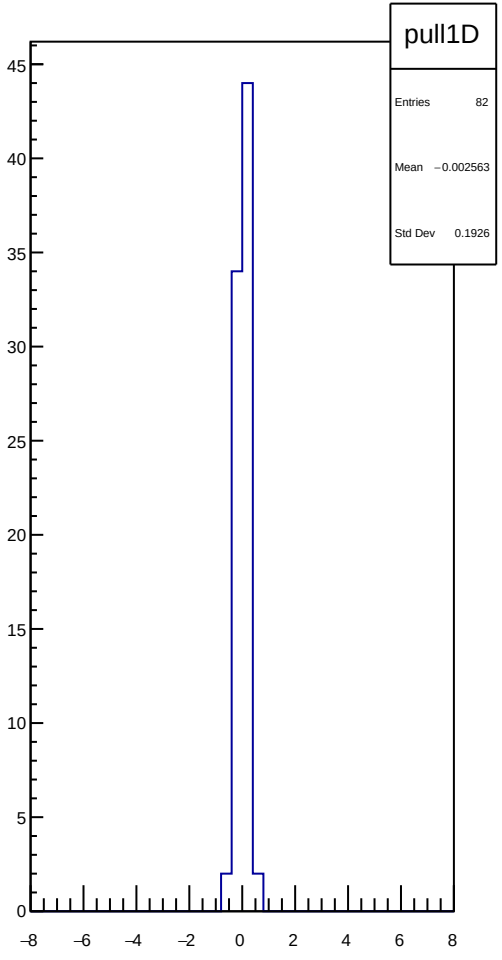

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.272 / 81
p0 −85.53 ± 1.962
pull
Entries 82
Mean 598.5
Std Dev 0

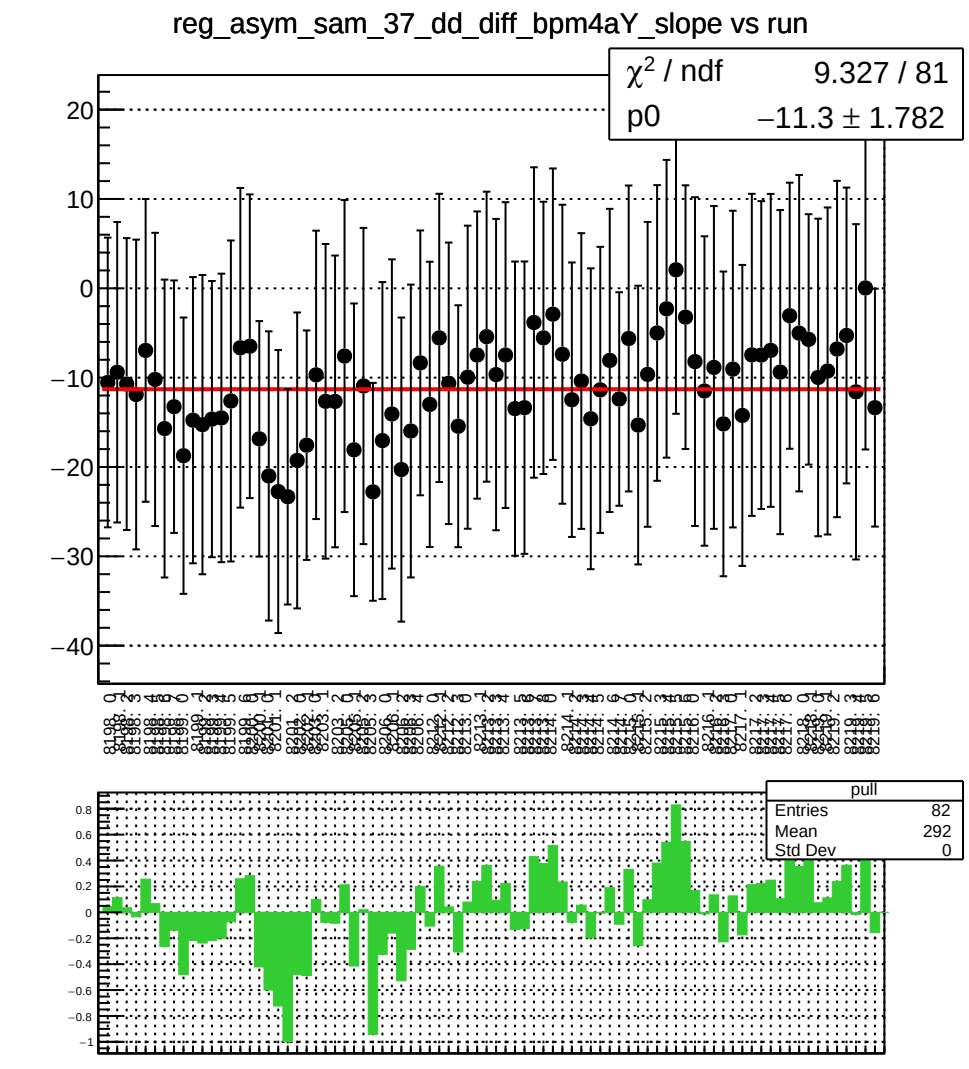

pull1D
Entries 82
Mean 0.001603
Std Dev 0.1665

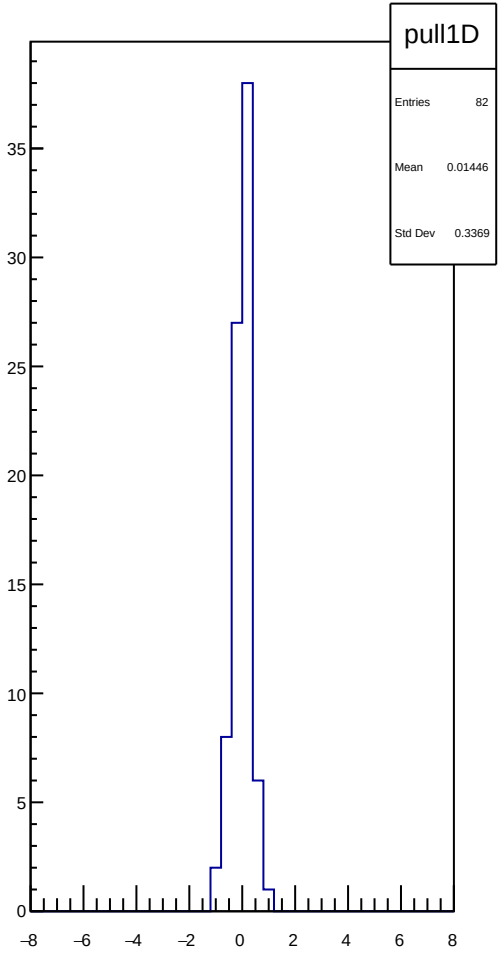

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.557 / 81
p0 4.139 ± 3.49
pull
Entries 82
Mean −163
Std Dev 0
pull1D
Entries 82
Mean −0.004311
Std Dev 0.1765

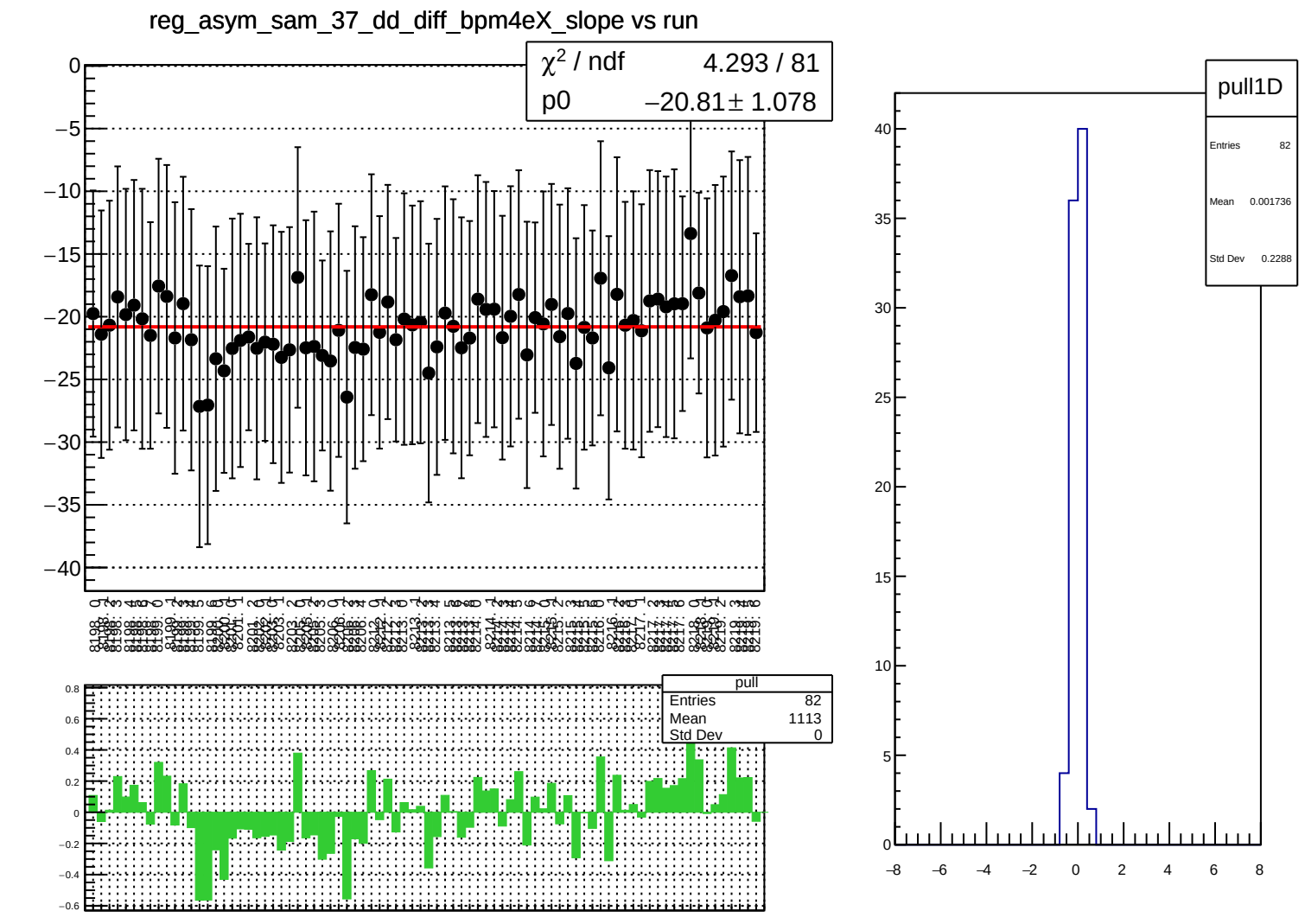

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 2.279 / 81
p0 0.2453 ± 0.1585
pull
Entries 82
Mean −815.7
Std Dev 0
pull1D
Entries 82
Mean −0.0007959
Std Dev 0.1667

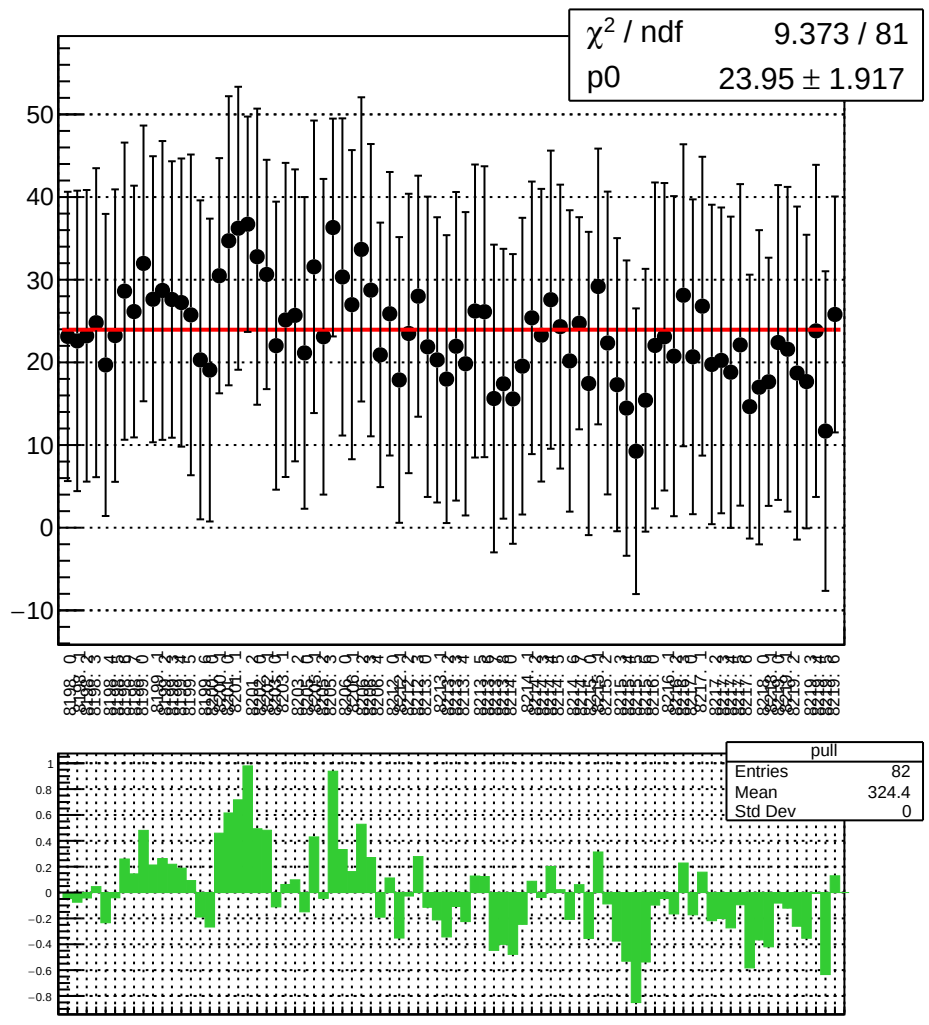

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3.042 / 81
p0 −33.3 ± 1.076
pull
Entries 82
Mean 264.5
Std Dev 0

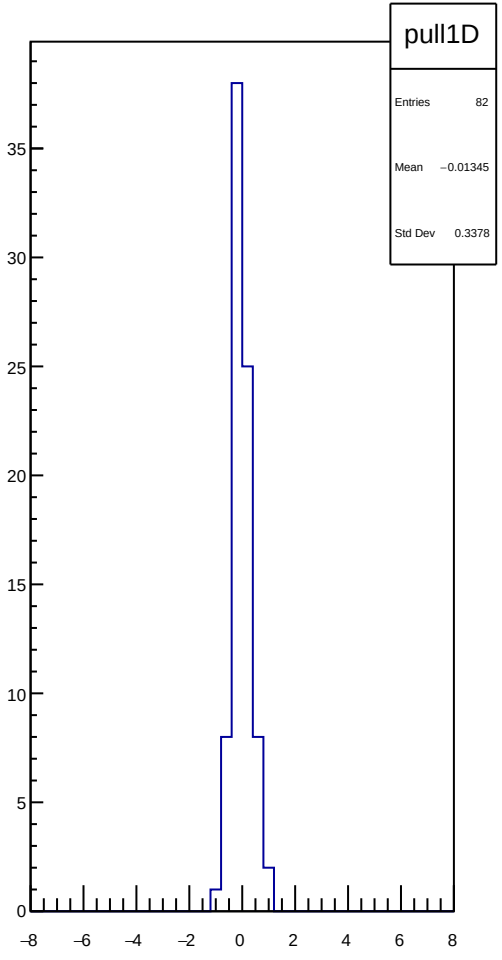

pull1D
Entries 82
Mean −0.002563
Std Dev 0.1926

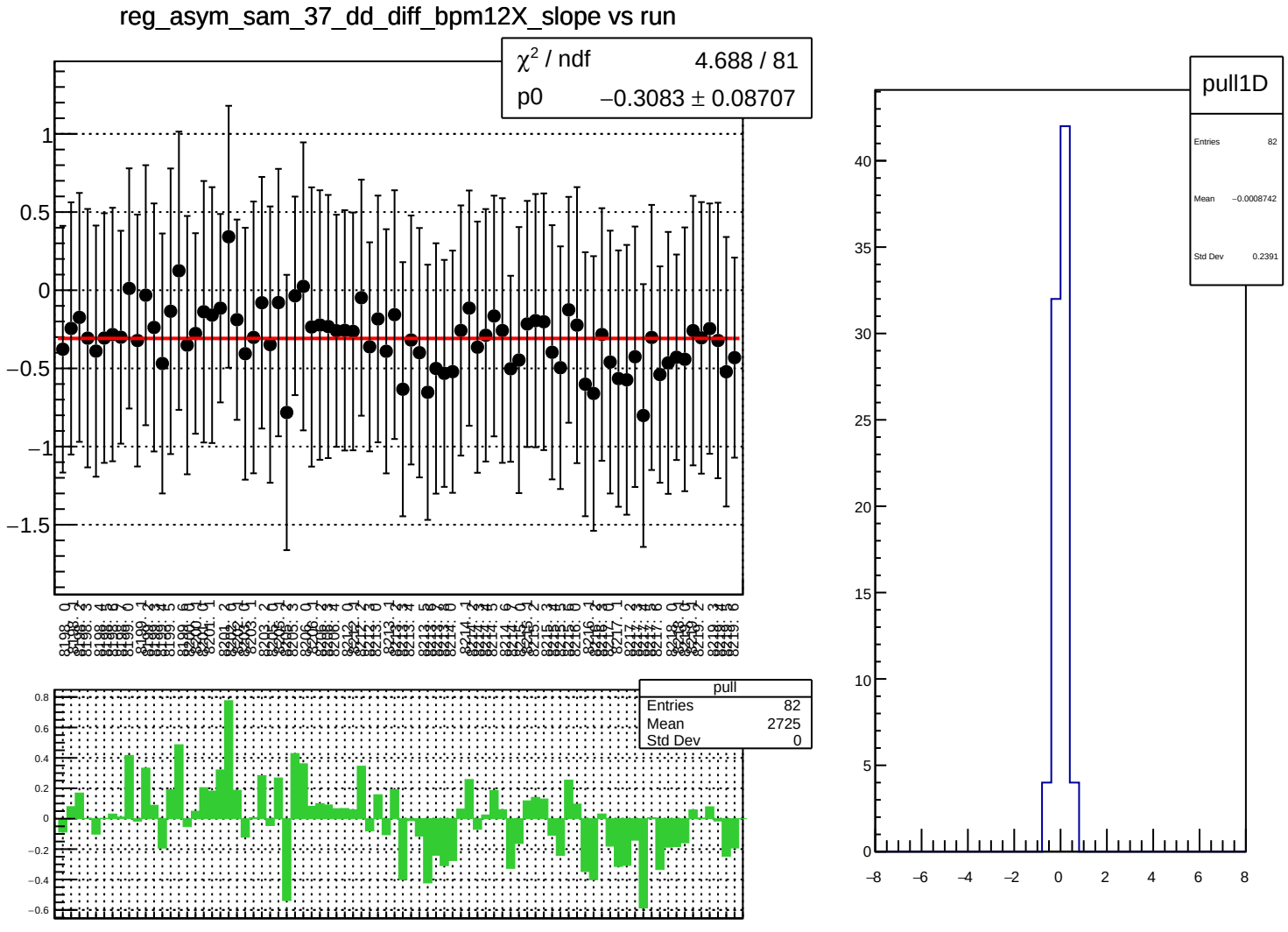

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.327 / 81
p0 −11.3 ± 1.782
pull
Entries 82
Mean 292
Std Dev 0

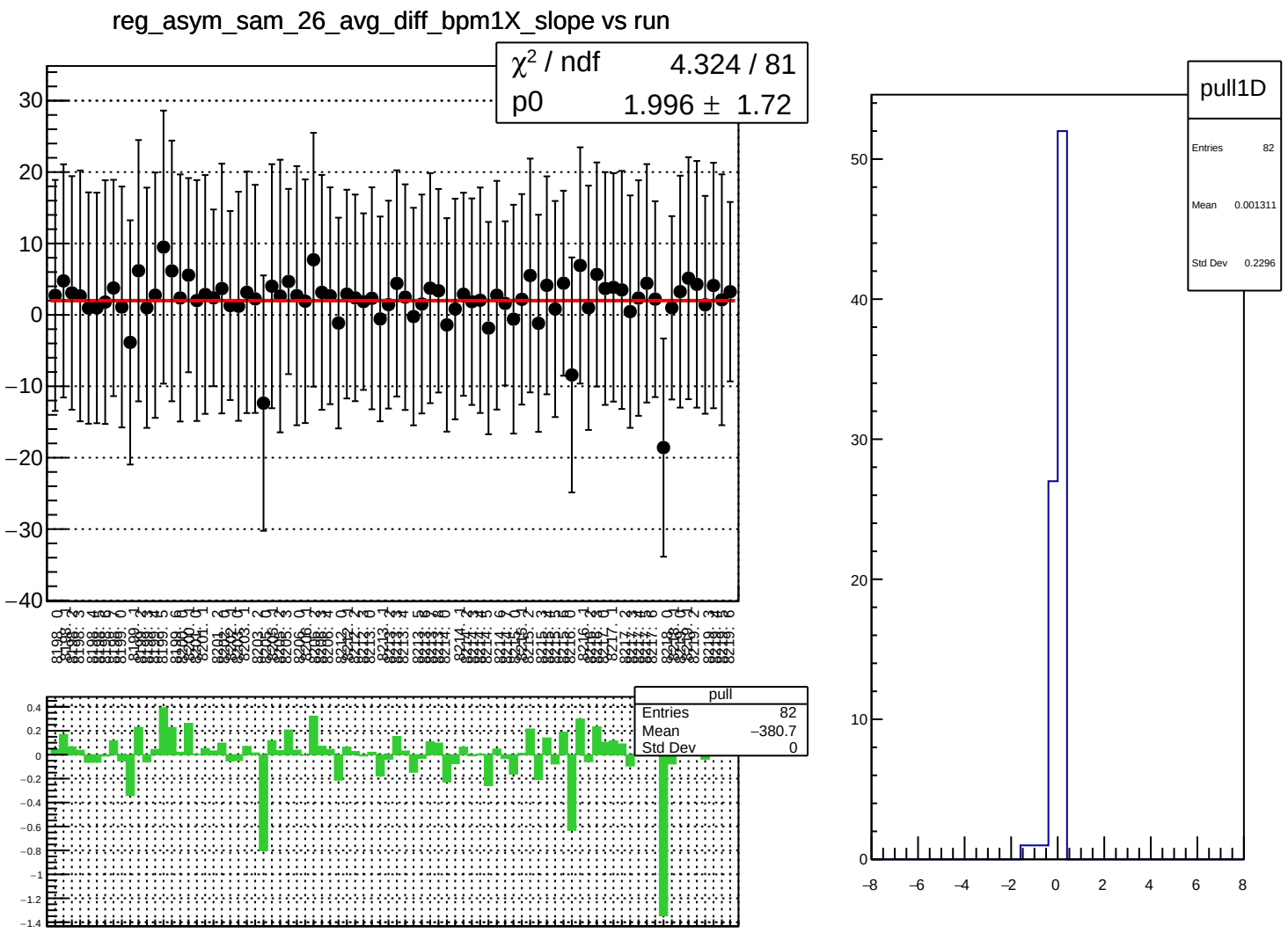

pull1D
Entries 82
Mean 0.01446
Std Dev 0.3369

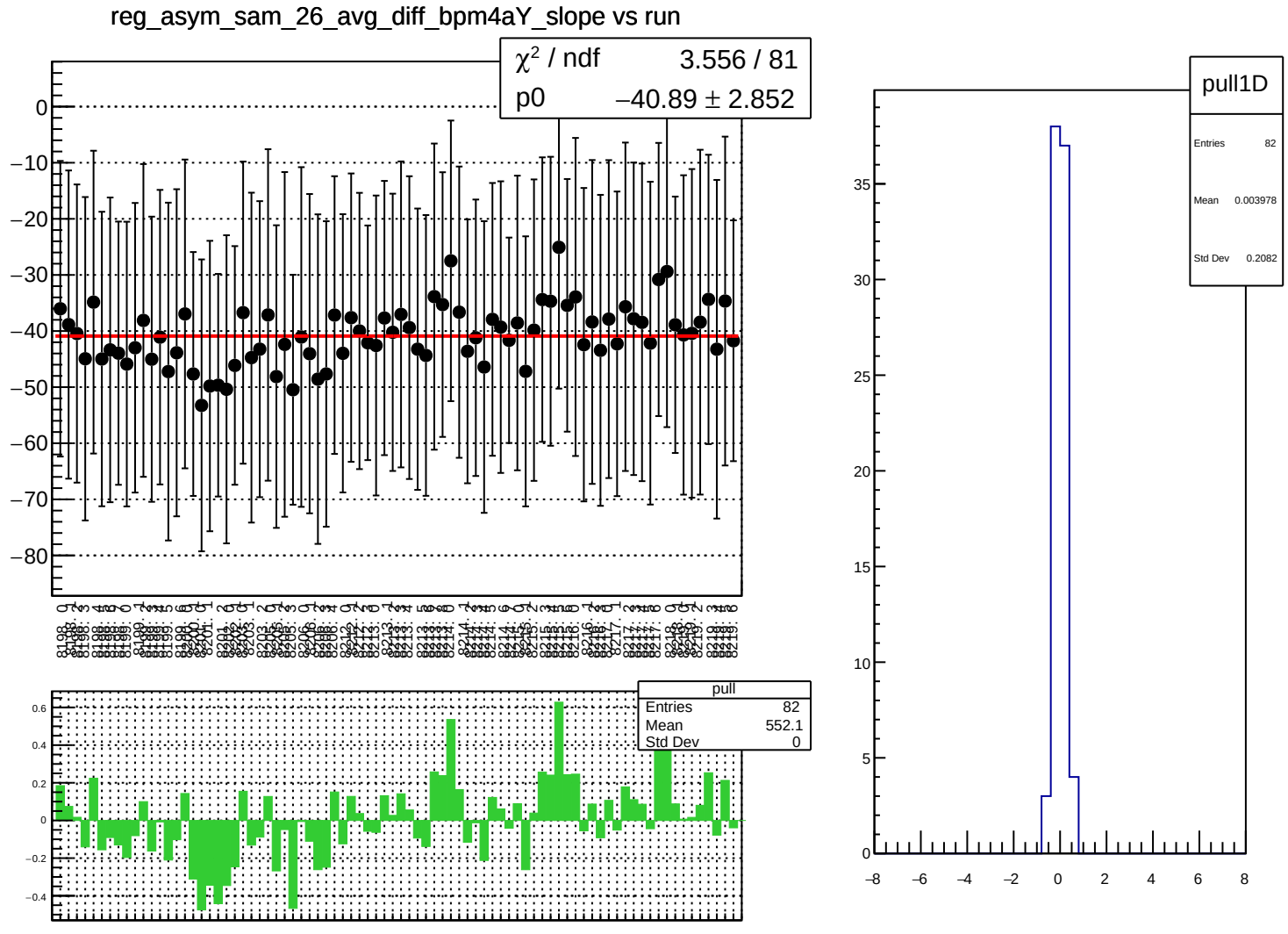

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.293 / 81
p0 −20.81± 1.078
pull
Entries 82
Mean 1113
Std Dev 0
pull1D
Entries 82
Mean 0.001736
Std Dev 0.2288

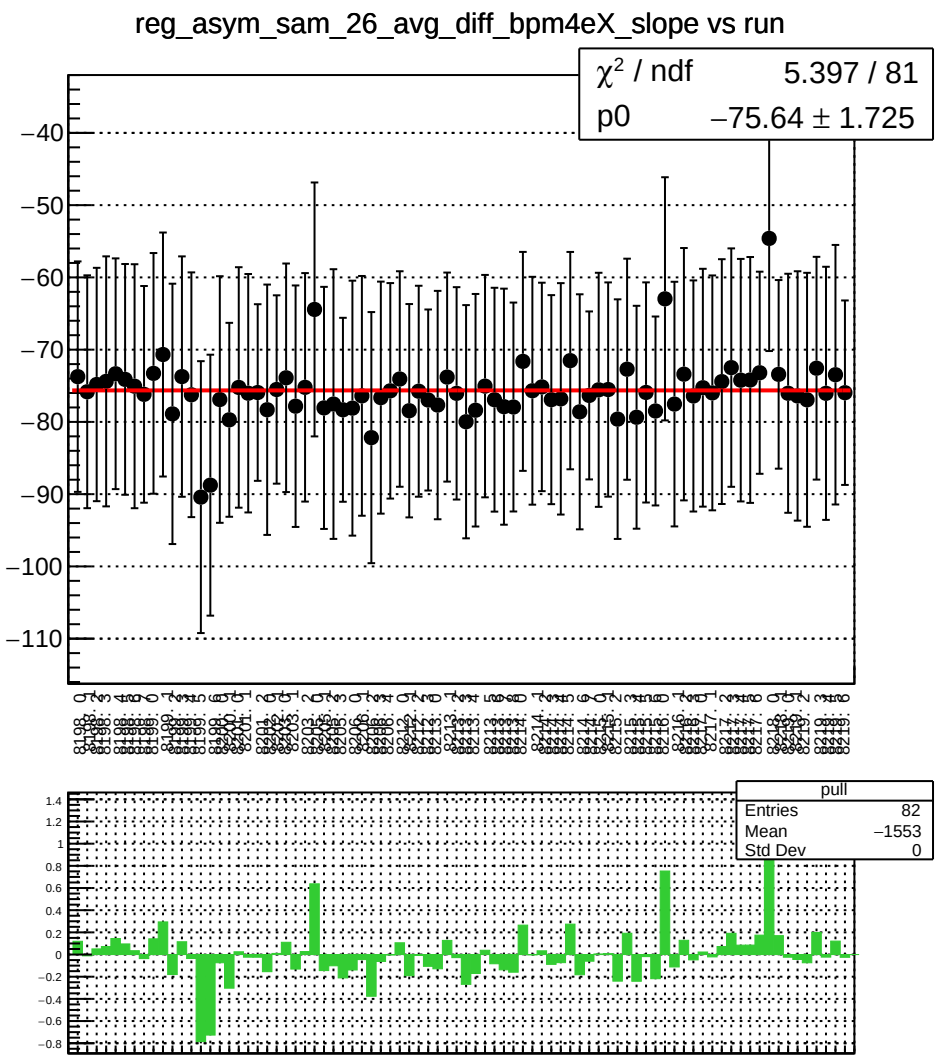

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.373 / 81
p0 23.95 ± 1.917
pull
Entries 82
Mean 324.4
Std Dev 0

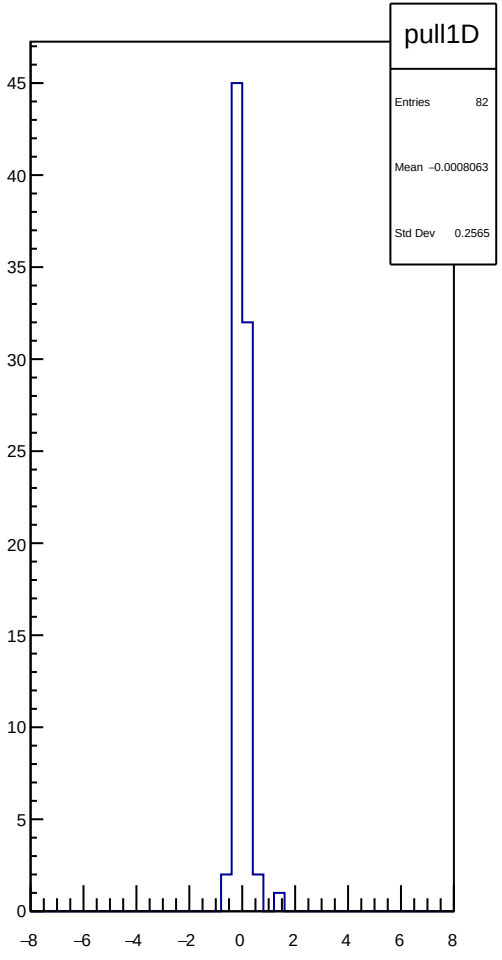

pull1D
Entries 82
Mean −0.01345
Std Dev 0.3378

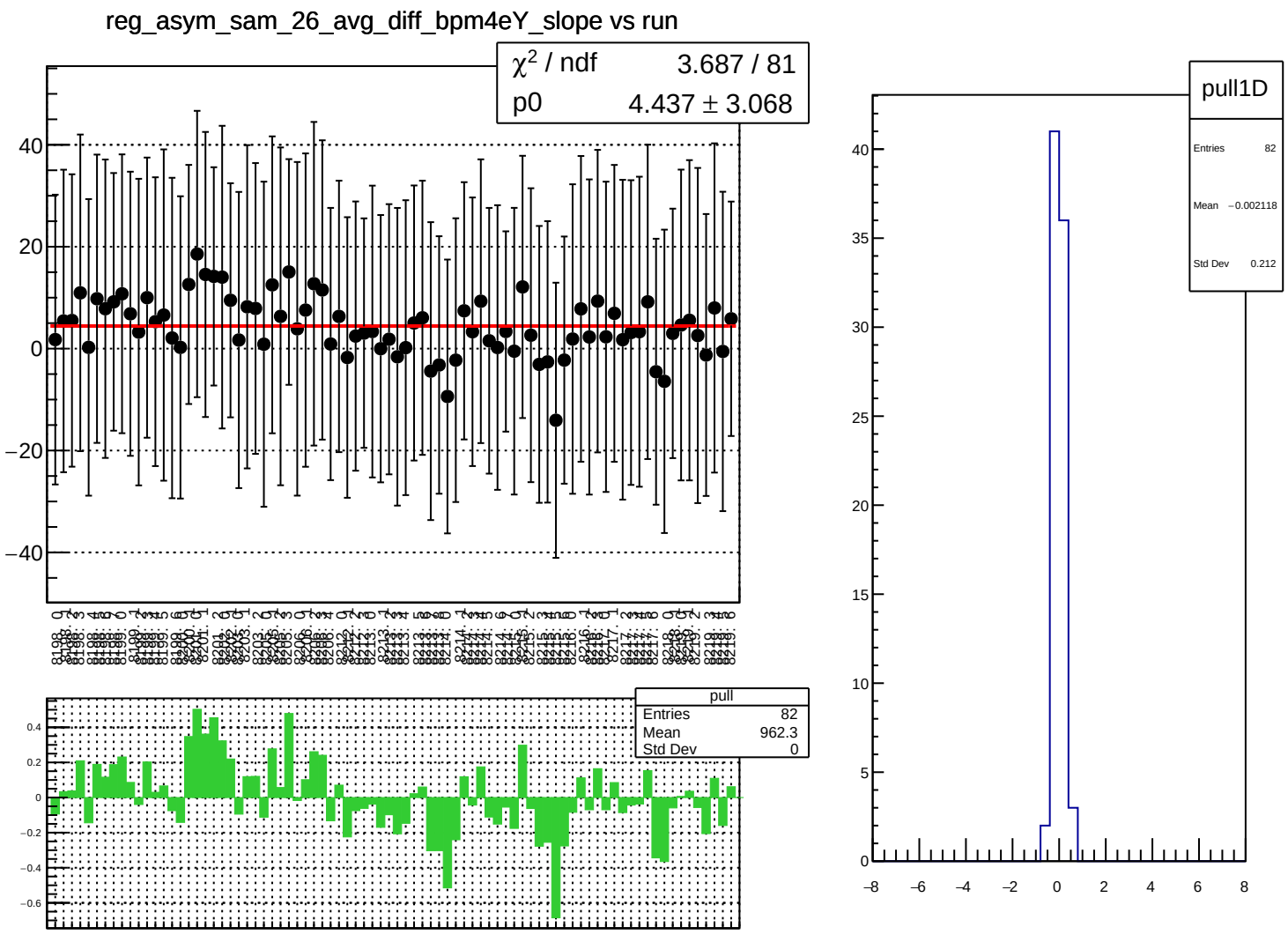

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 4.688 / 81
p0 −0.3083 ± 0.08707
pull
Entries 82
Mean 2725
Std Dev 0
pull1D
Entries 82
Mean −0.0008742
Std Dev 0.2391

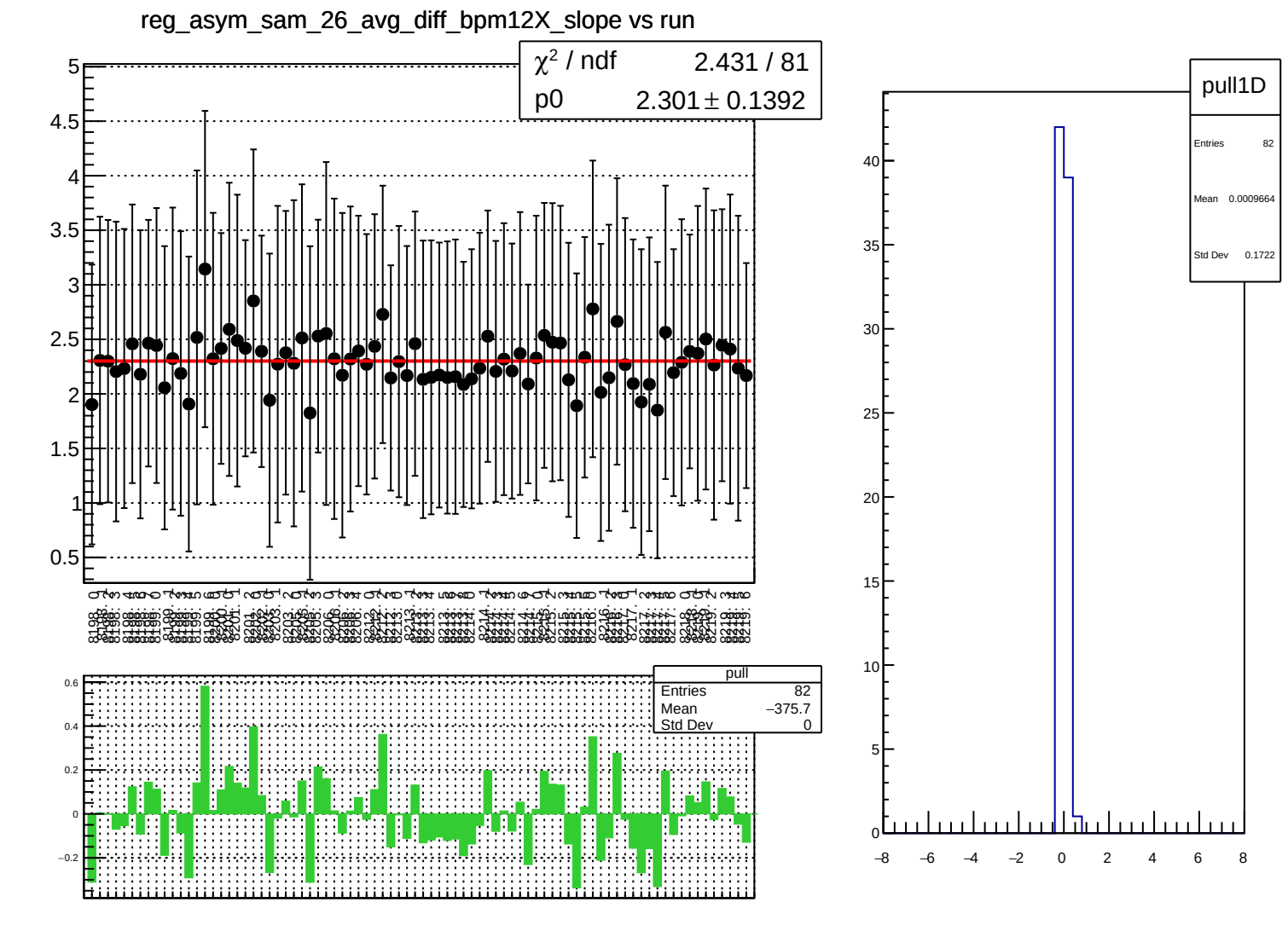

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 4.324 / 81
p0 1.996 ± 1.72
pull
Entries 82
Mean −380.7
Std Dev 0
pull1D
Entries 82
Mean 0.001311
Std Dev 0.2296

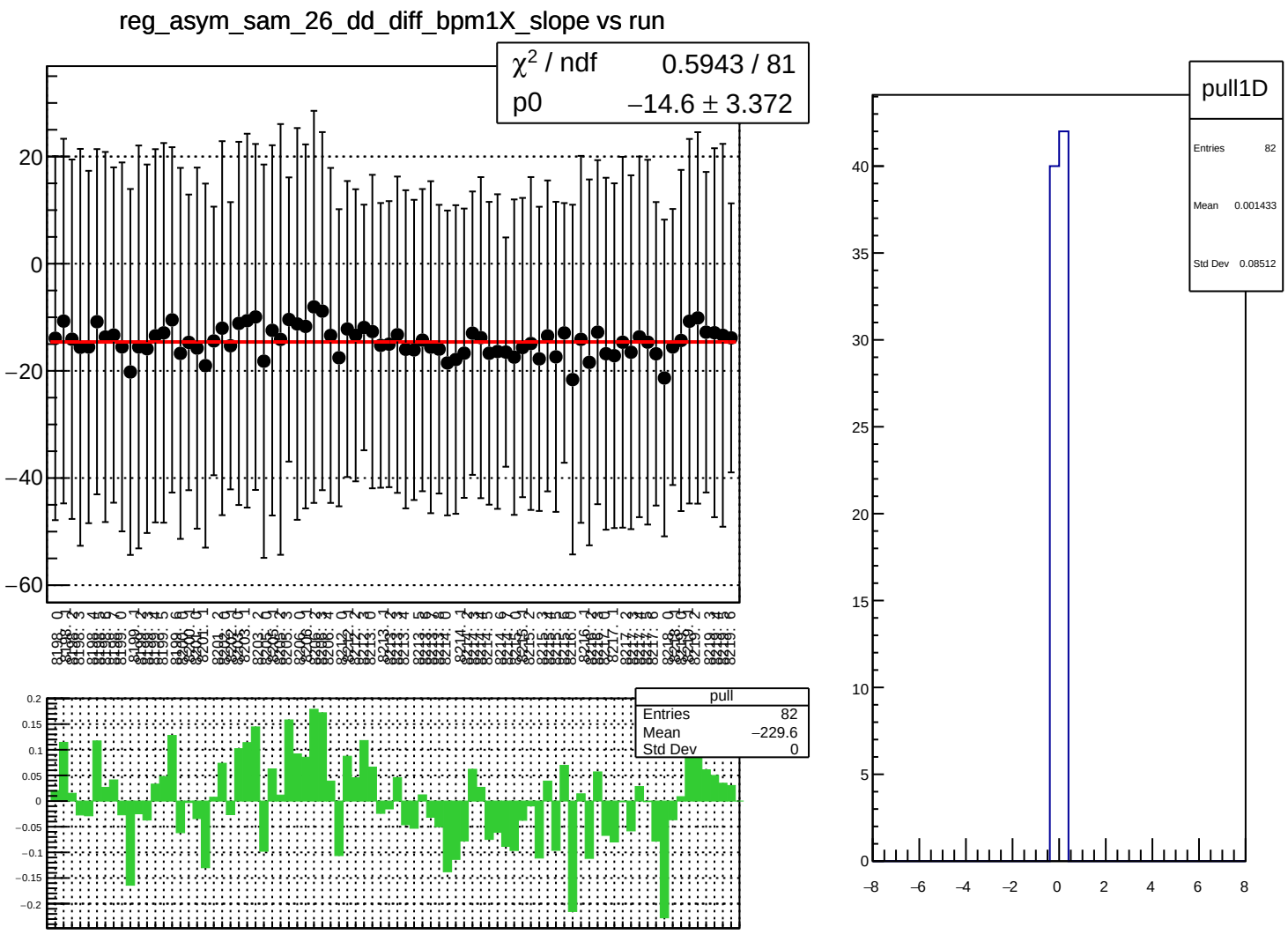

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.556 / 81
p0 −40.89 ± 2.852
pull
Entries 82
Mean 552.1
Std Dev 0
pull1D
Entries 82
Mean 0.003978
Std Dev 0.2082

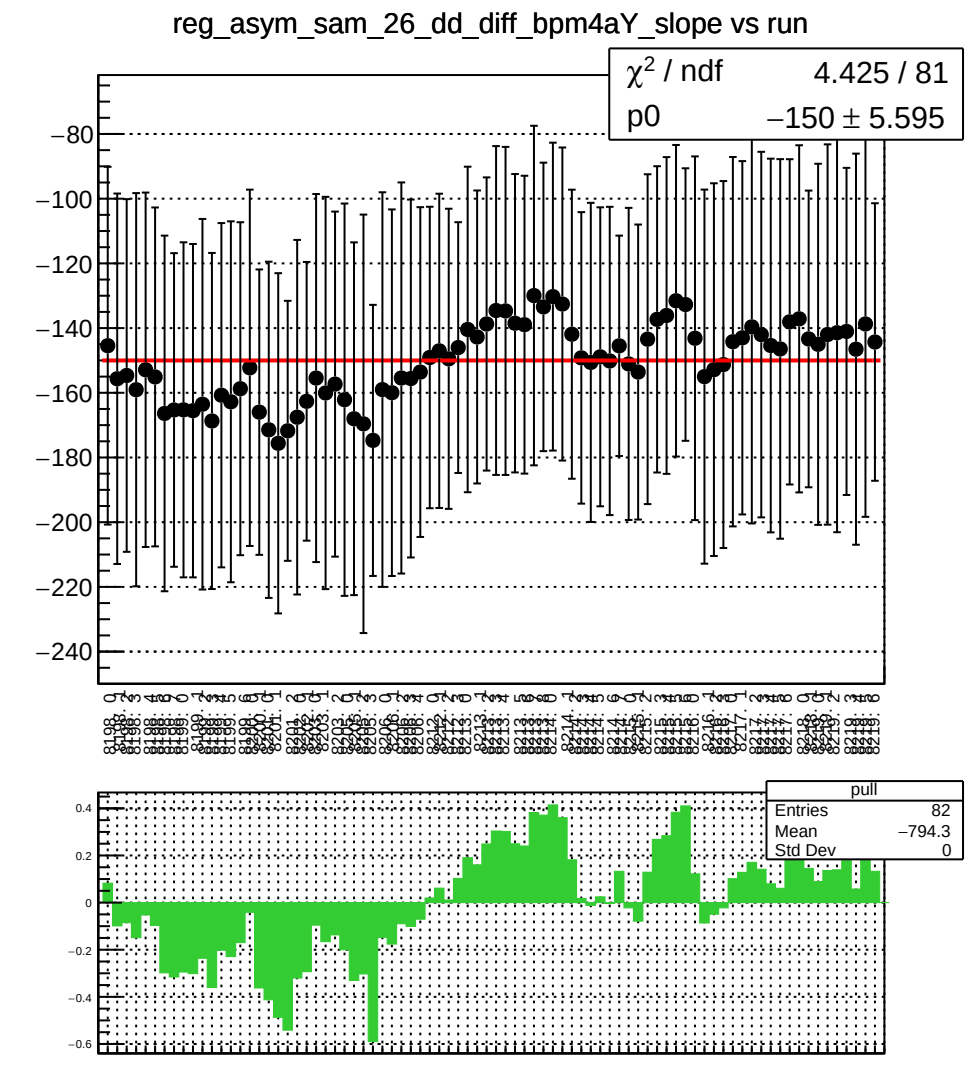

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.397 / 81
p0 −75.64 ± 1.725
pull
Entries 82
Mean −1553
Std Dev 0

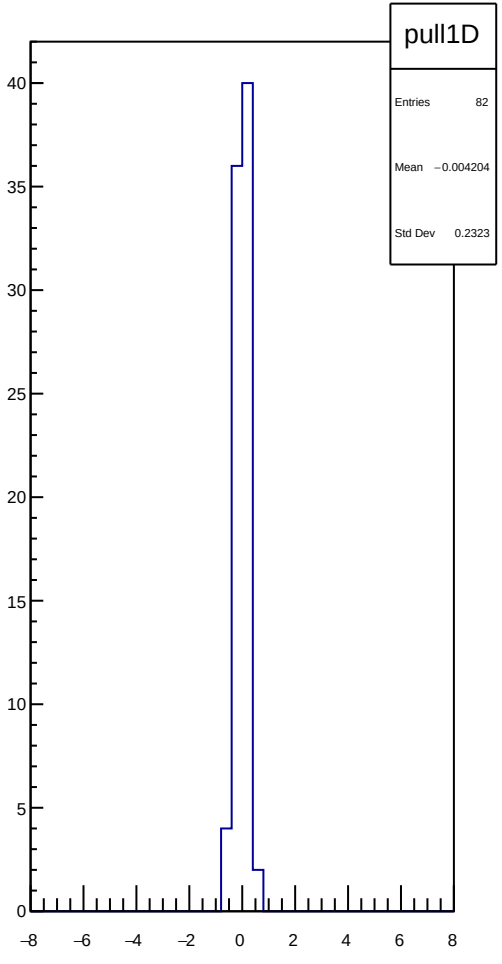

pull1D
Entries 82
Mean −0.0008063
Std Dev 0.2565

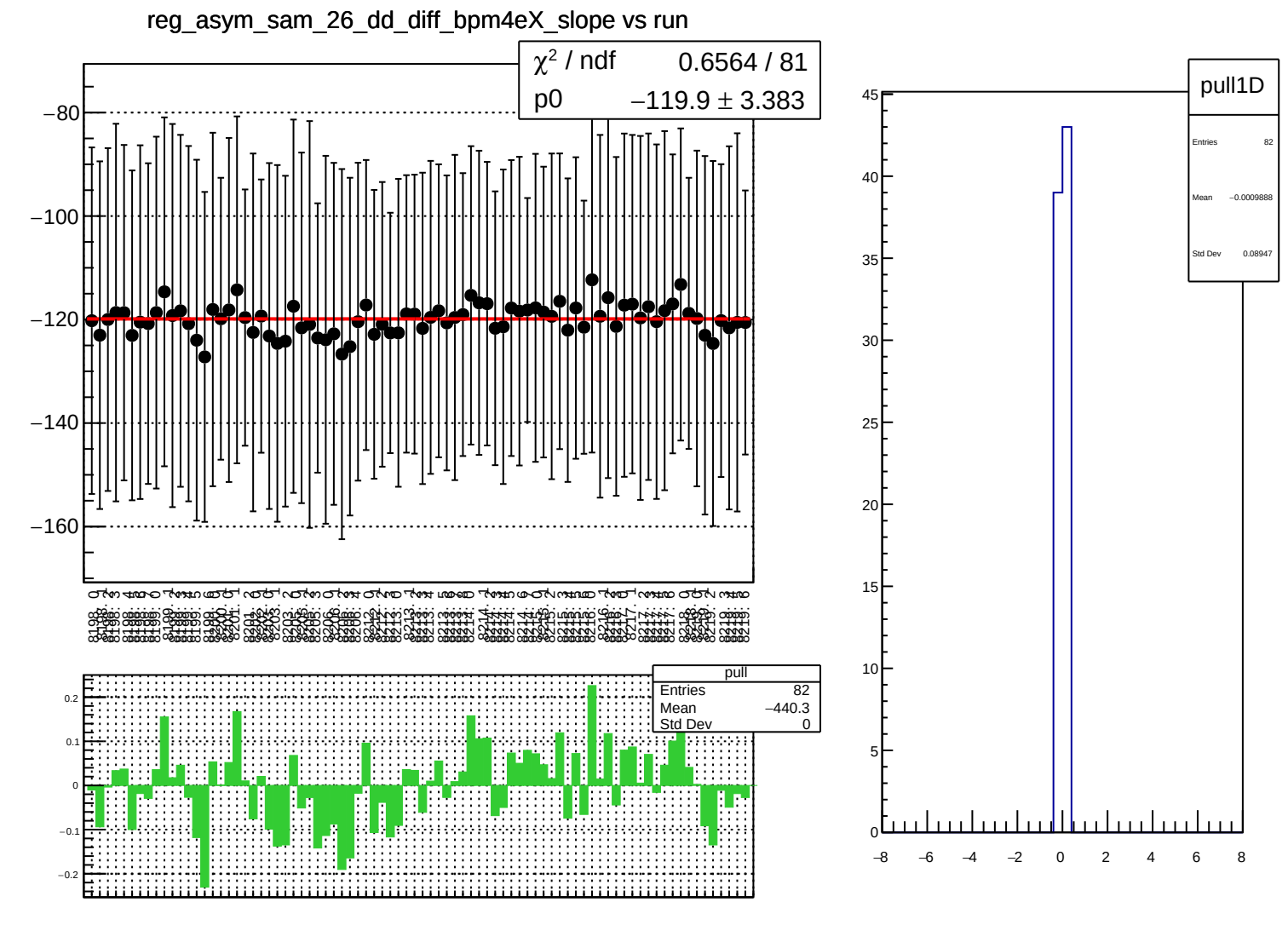

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.687 / 81
p0 4.437 ± 3.068
pull
Entries 82
Mean 962.3
Std Dev 0
pull1D
Entries 82
Mean −0.002118
Std Dev 0.212

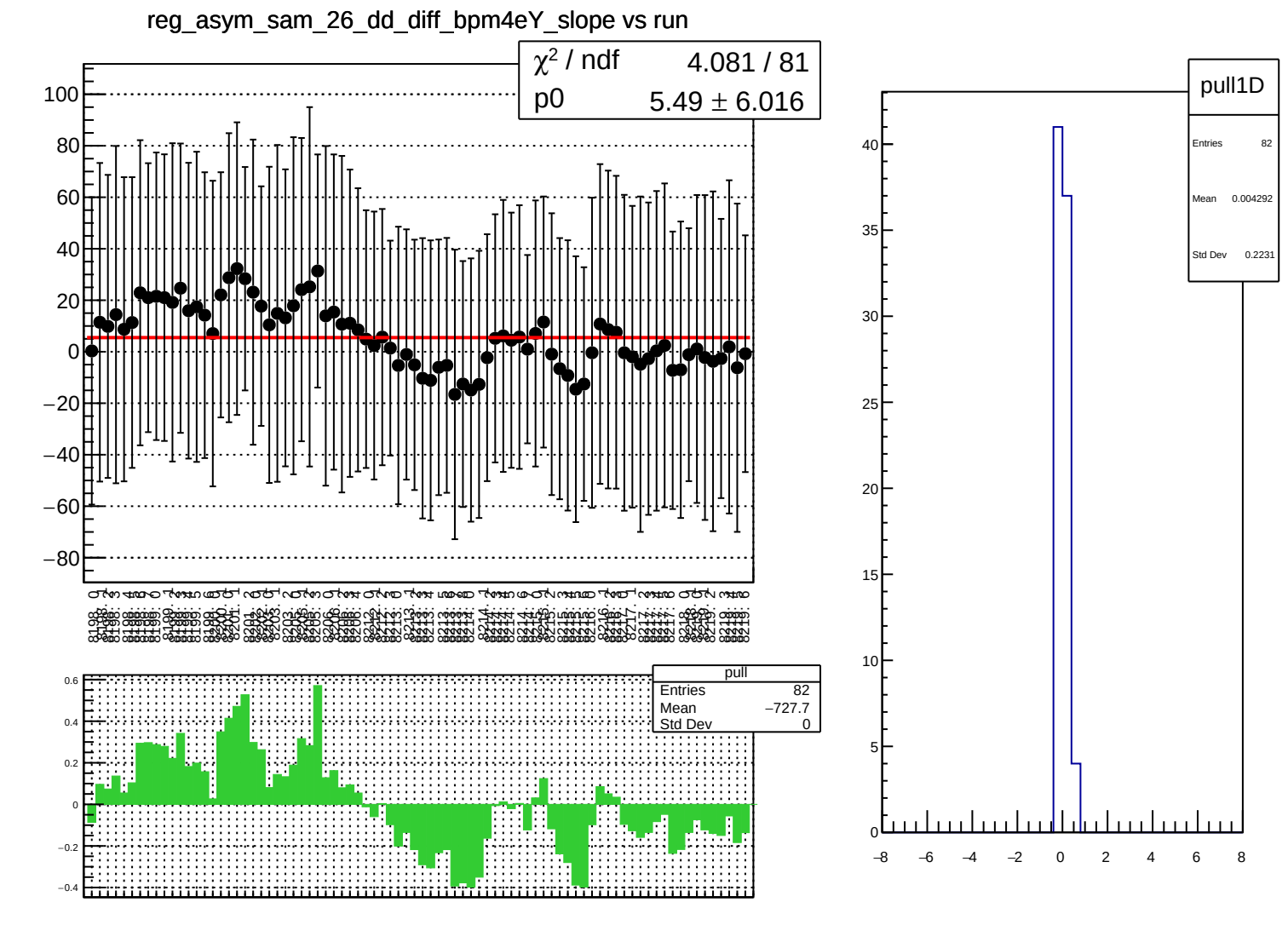

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 2.431 / 81
p0 2.301 ± 0.1392
pull
Entries 82
Mean −375.7
Std Dev 0
pull1D
Entries 82
Mean 0.0009664
Std Dev 0.1722

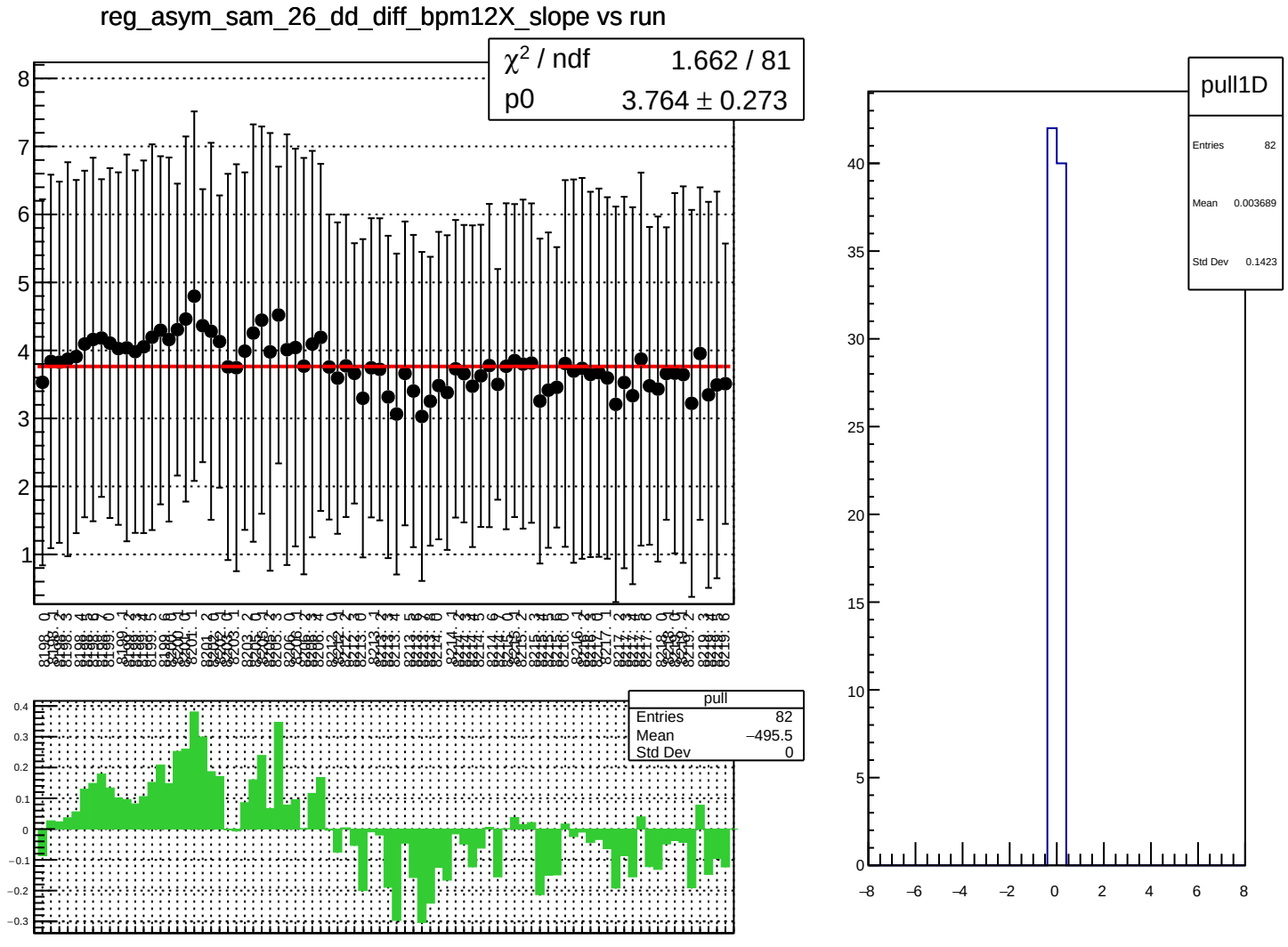

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.5943 / 81
p0 −14.6 ± 3.372
pull
Entries 82
Mean −229.6
Std Dev 0
pull1D
Entries 82
Mean 0.001433
Std Dev 0.08512

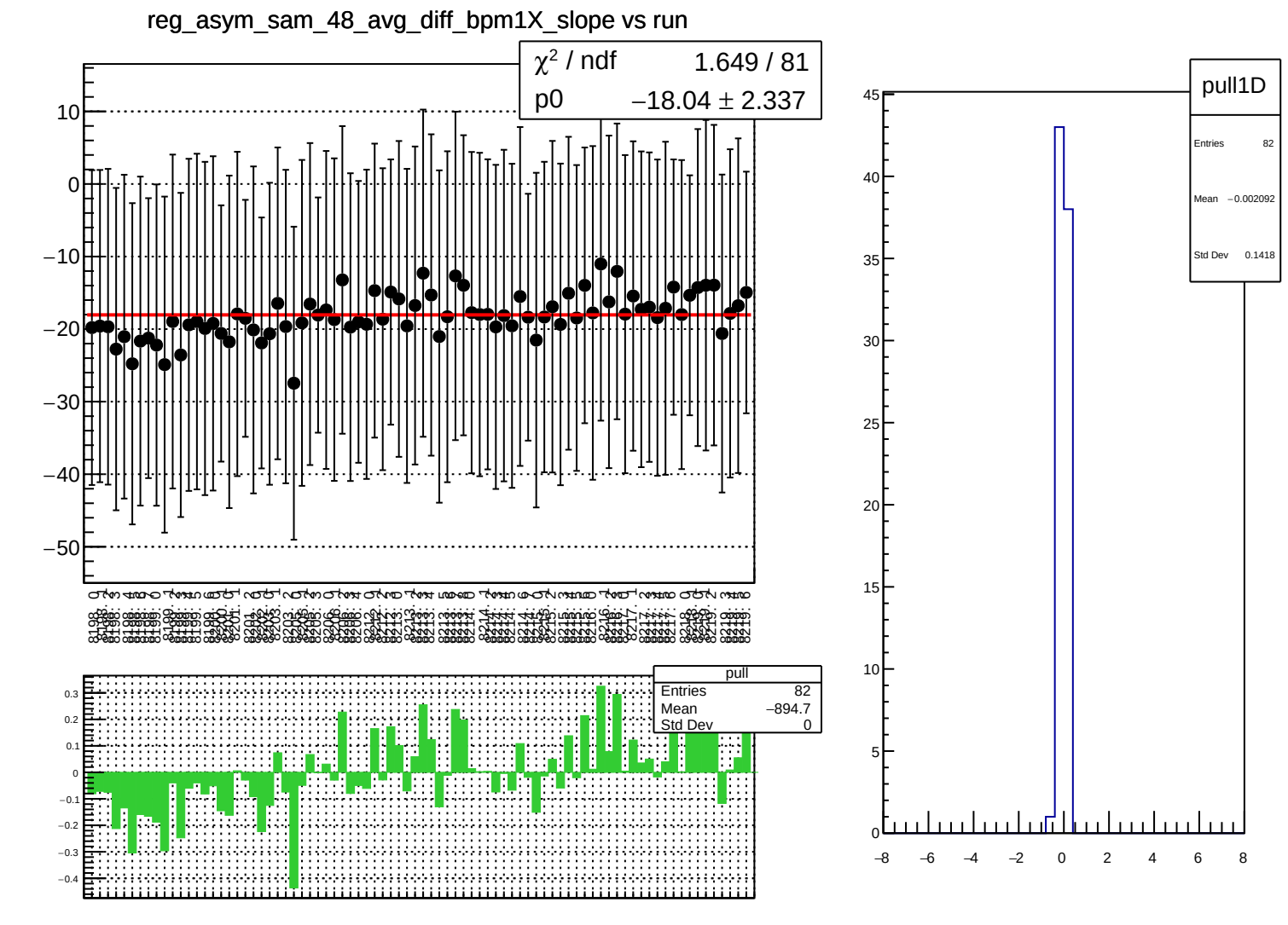

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.425 / 81
p0 −150 ± 5.595
pull
Entries 82
Mean −794.3
Std Dev 0

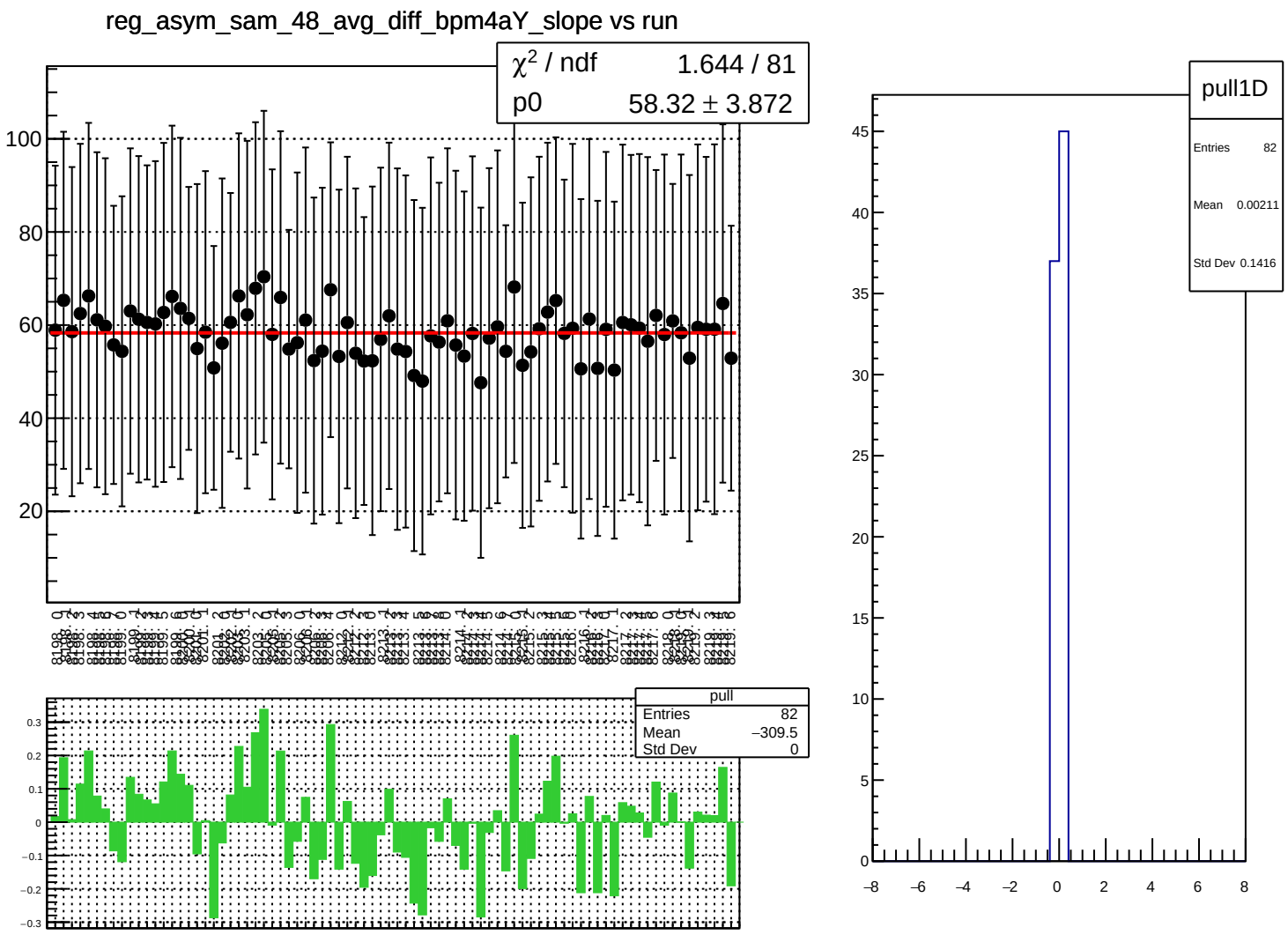

pull1D
Entries 82
Mean −0.004204
Std Dev 0.2323

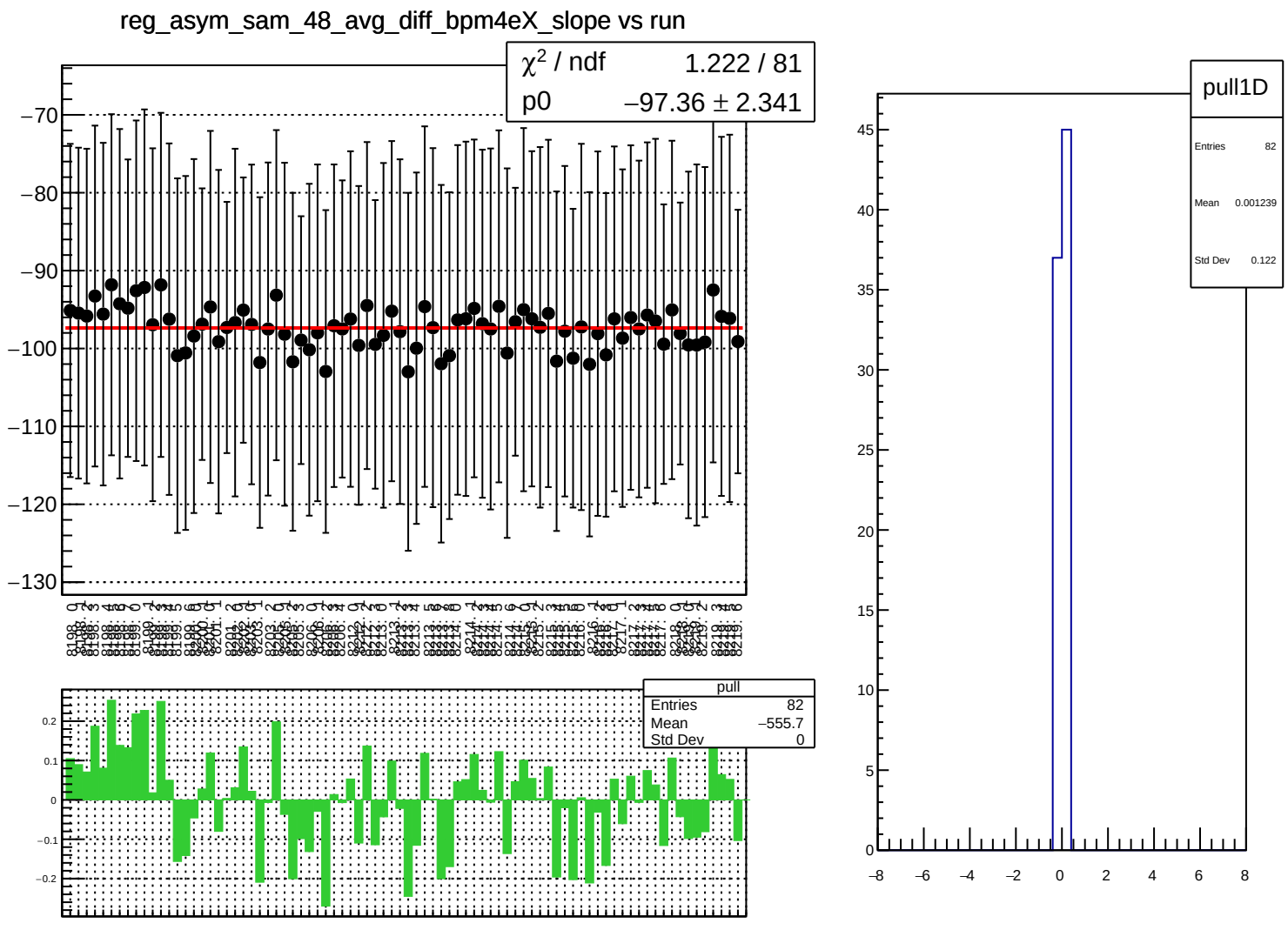

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6564 / 81
p0 −119.9 ± 3.383
−80
−100
−120
−140
−160
pull
Entries 82
Mean −440.3
Std Dev 0
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 82
Mean −0.0009888
Std Dev 0.08947
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

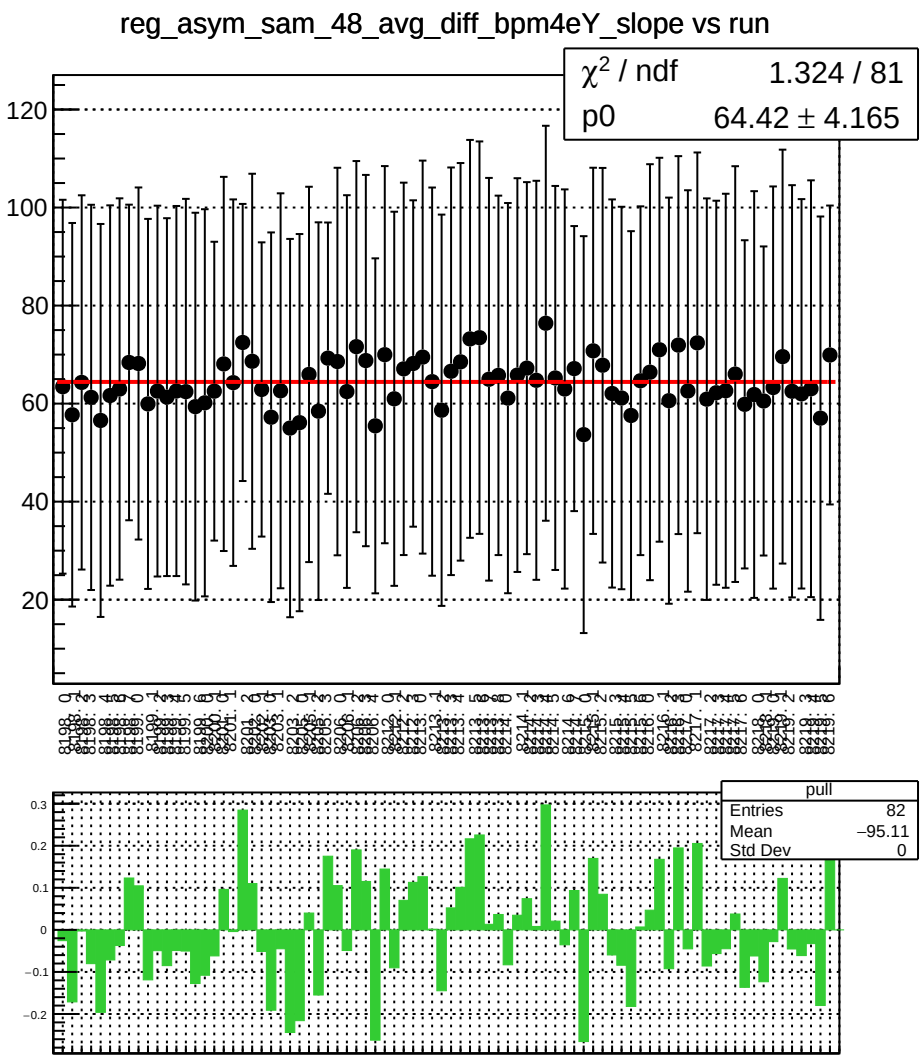

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.081 / 81
p0 5.49 ± 6.016
pull
Entries 82
Mean −727.7
Std Dev 0
pull1D
Entries 82
Mean 0.004292
Std Dev 0.2231

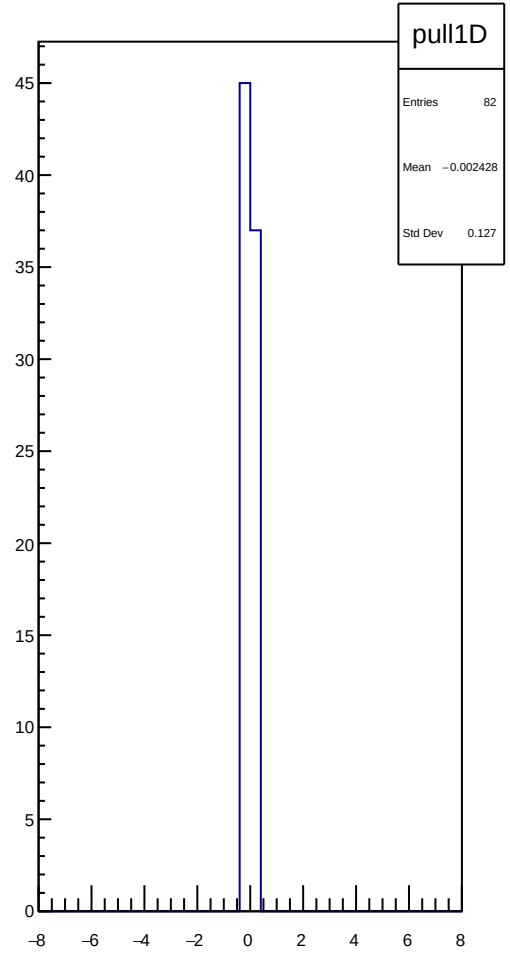

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.662 / 81
p0 3.764 ± 0.273
pull
Entries 82
Mean −495.5
Std Dev 0
pull1D
Entries 82
Mean 0.003689
Std Dev 0.1423

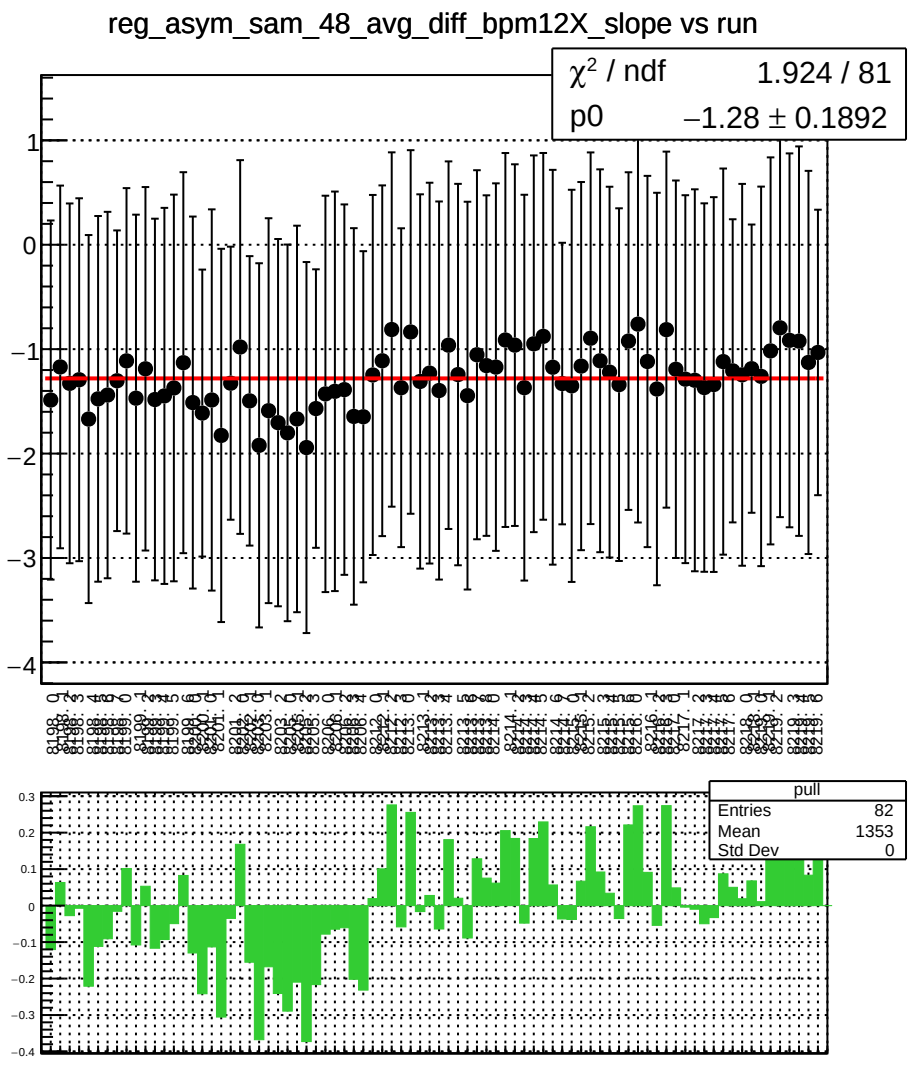

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 1.649 / 81
p0 −18.04 ± 2.337
pull
Entries 82
Mean −894.7
Std Dev 0
pull1D
Entries 82
Mean −0.002092
Std Dev 0.1418

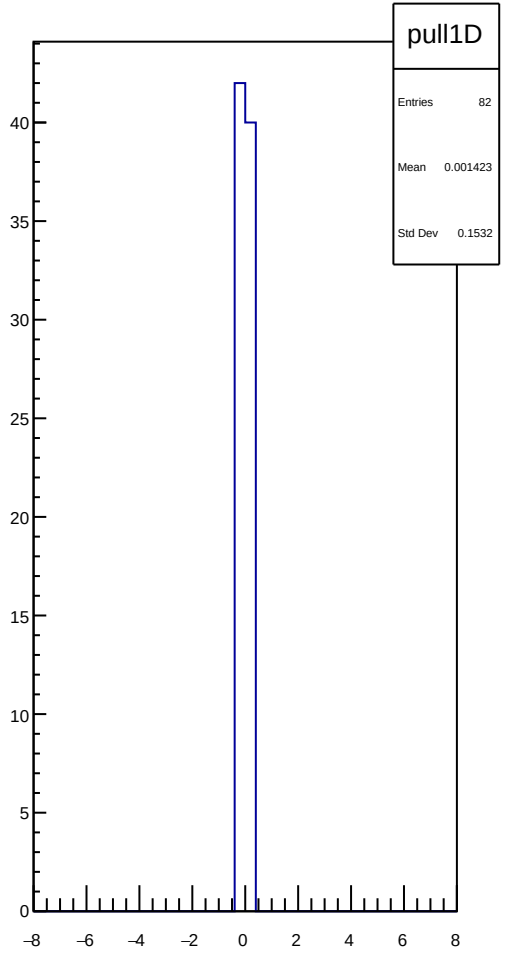

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.644 / 81
p0 58.32 ± 3.872
pull
Entries 82
Mean −309.5
Std Dev 0
pull1D
Entries 82
Mean 0.00211
Std Dev 0.1416

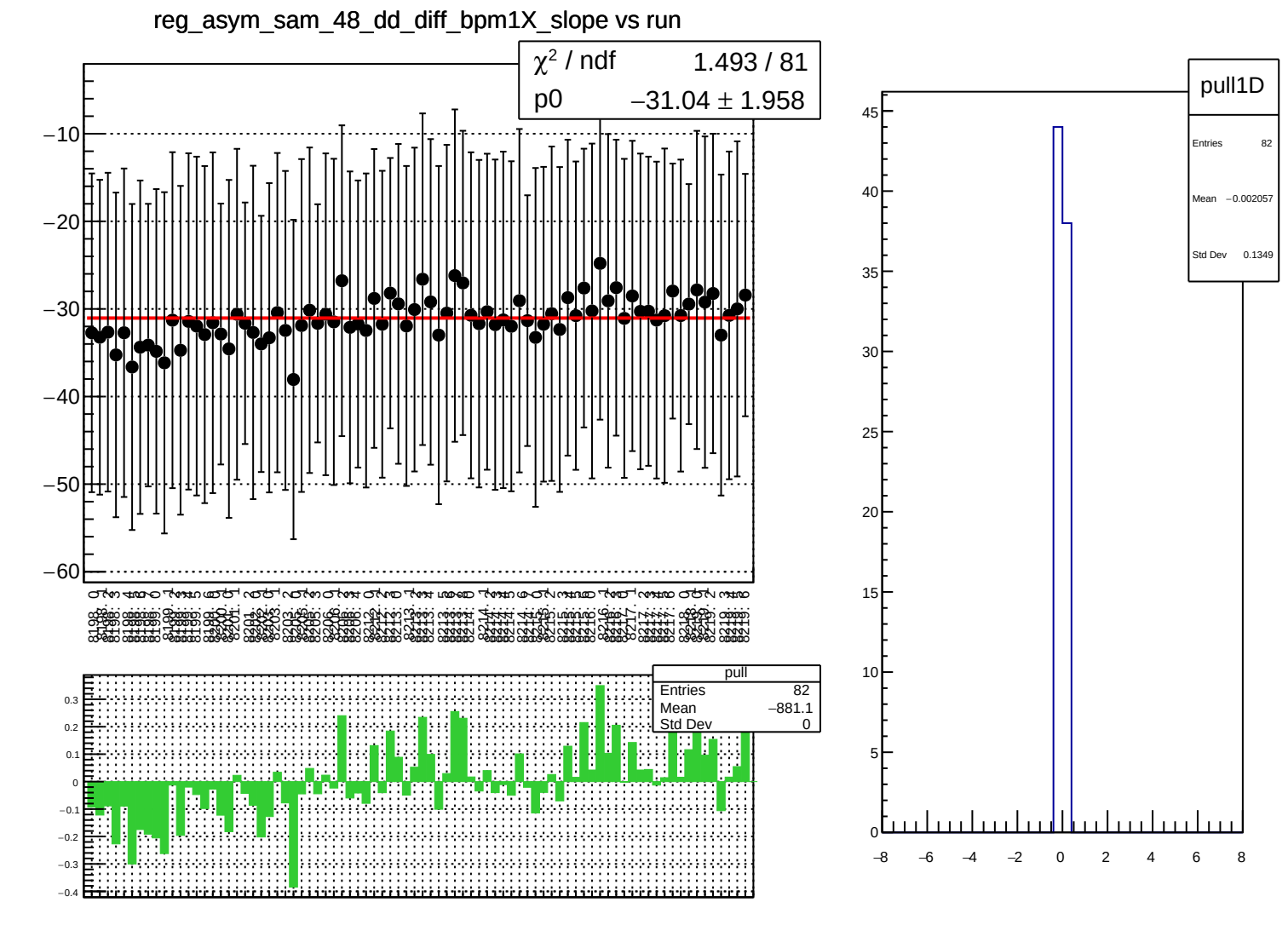

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.222 / 81
p0 −97.36 ± 2.341
pull
Entries 82
Mean −555.7
Std Dev 0
pull1D
Entries 82
Mean 0.001239
Std Dev 0.122

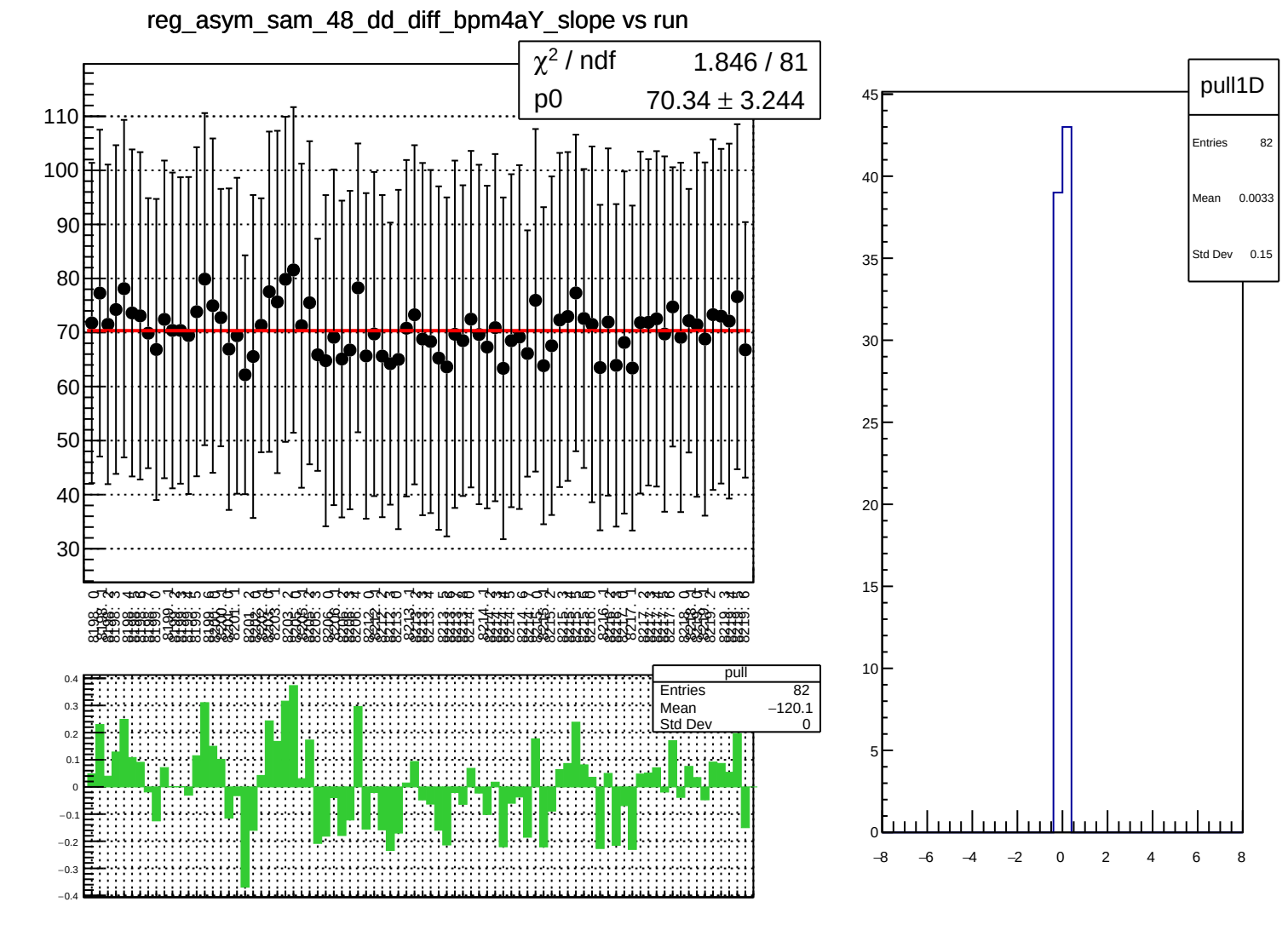

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 1.324 / 81
p0 64.42 ± 4.165
pull
Entries 82
Mean −95.11
Std Dev 0

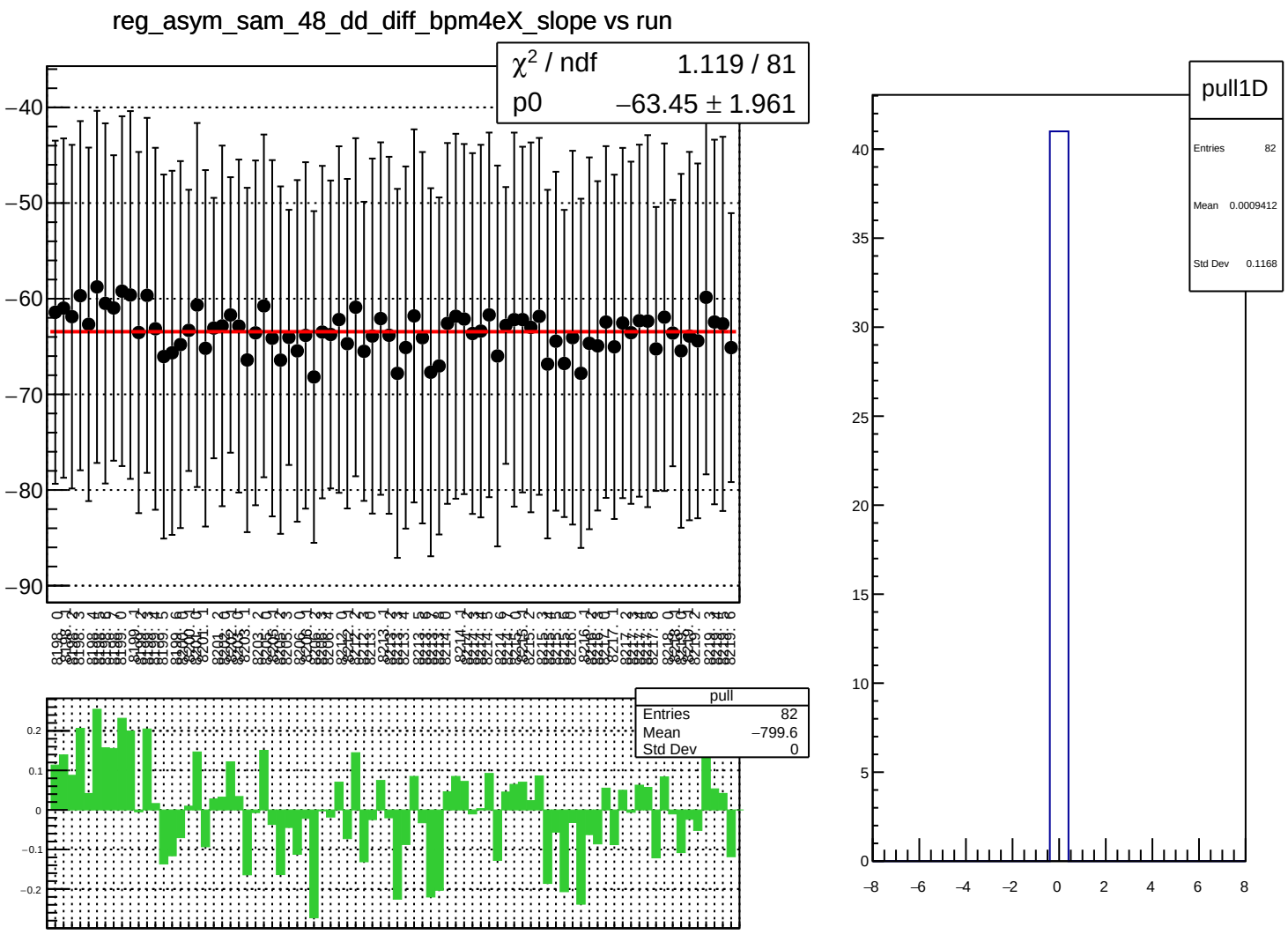

pull1D
Entries 82
Mean −0.002428
Std Dev 0.127

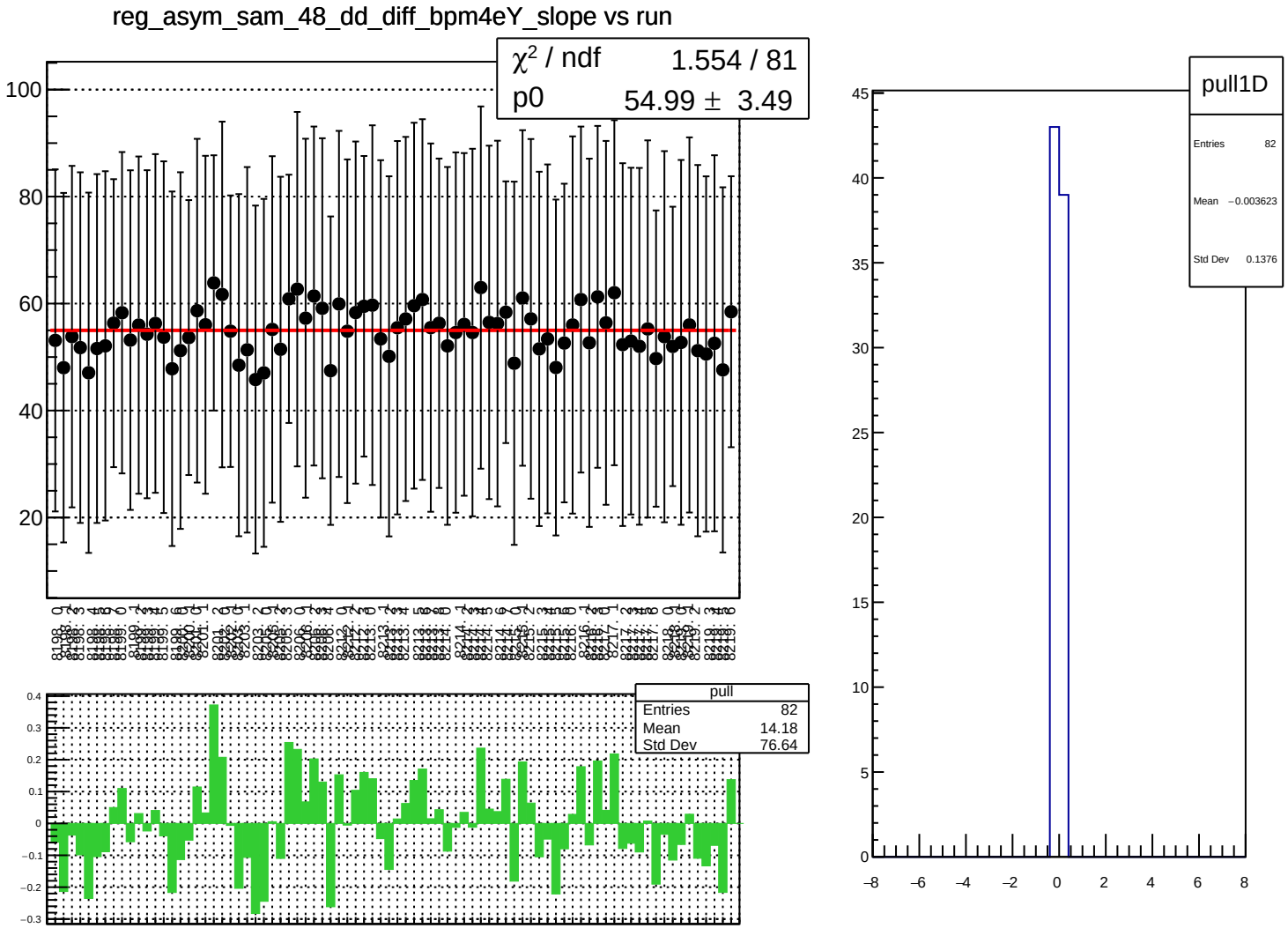

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1.924 / 81
p0 −1.28 ± 0.1892
pull
Entries 82
Mean 1353
Std Dev 0

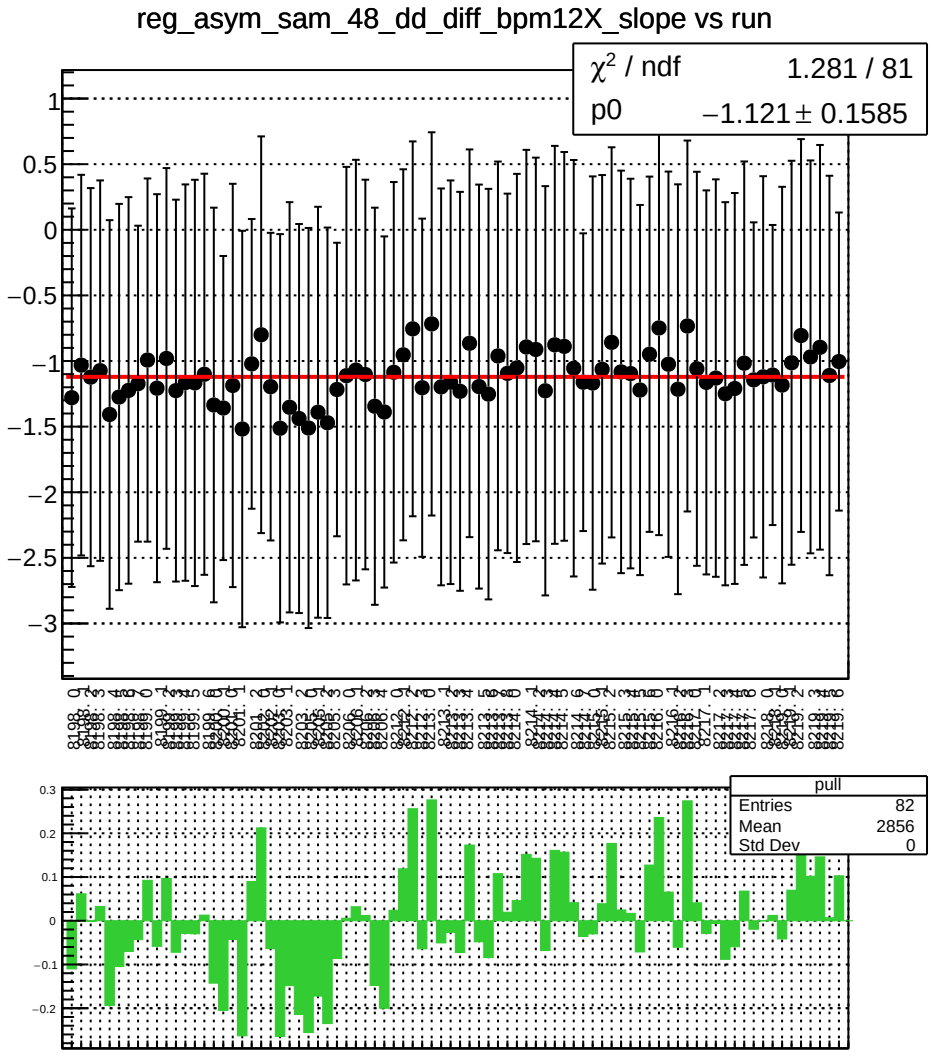

pull1D
Entries 82
Mean 0.001423
Std Dev 0.1532

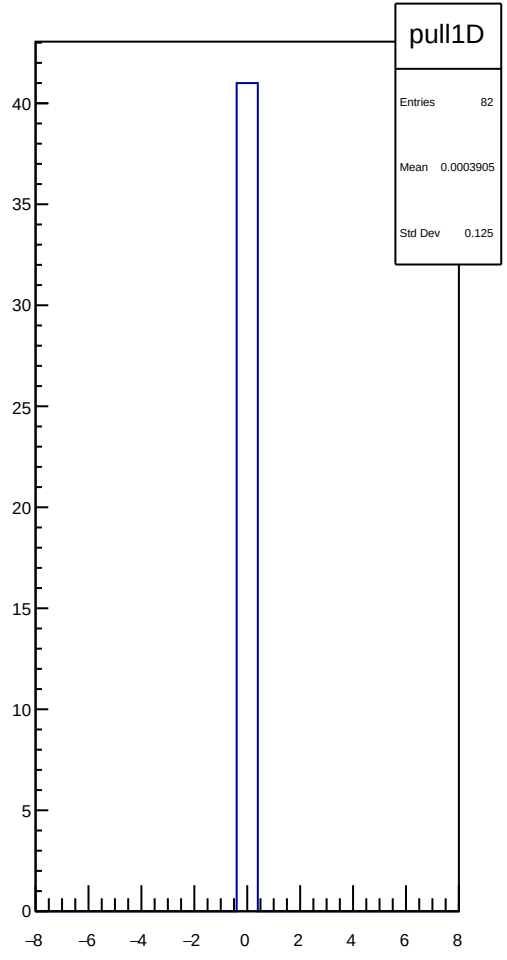

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.493 / 81
p0 −31.04 ± 1.958
pull
Entries 82
Mean −881.1
Std Dev 0
pull1D
Entries 82
Mean −0.002057
Std Dev 0.1349

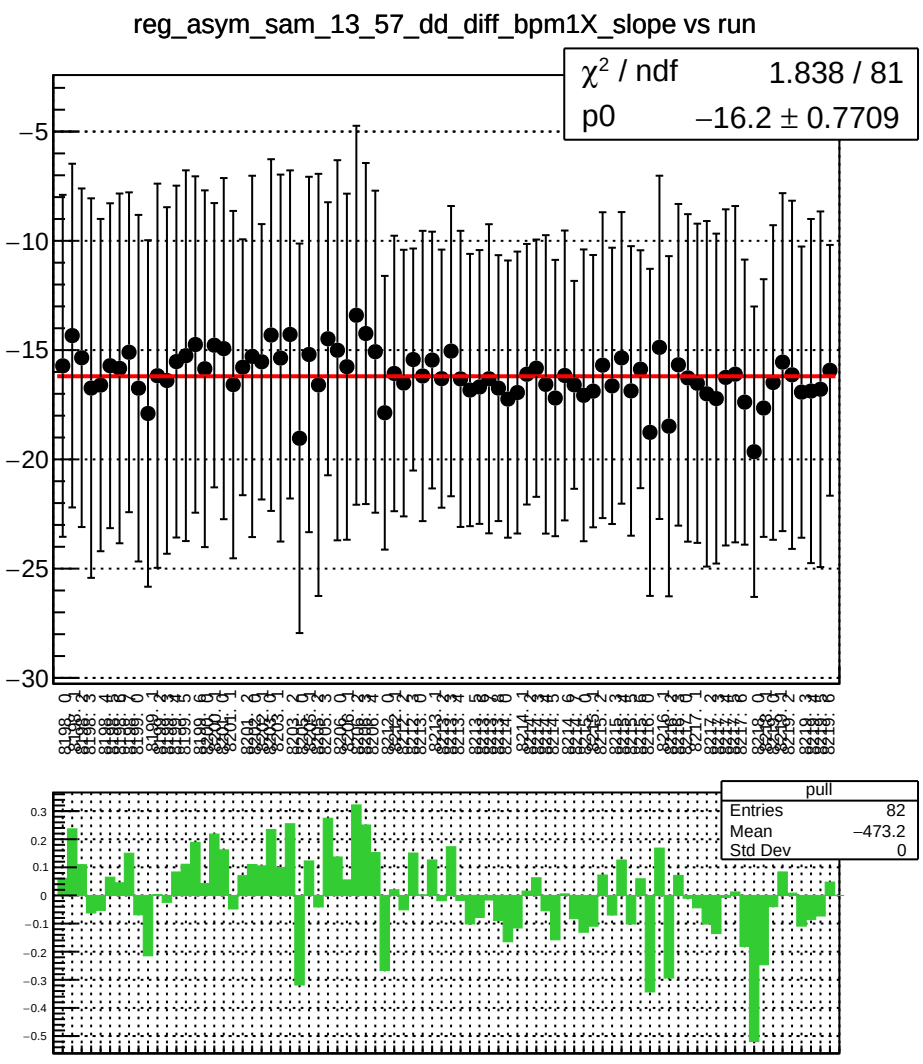

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.846 / 81
p0 70.34 ± 3.244
pull
Entries 82
Mean −120.1
Std Dev 0
pull1D
Entries 82
Mean 0.0033
Std Dev 0.15

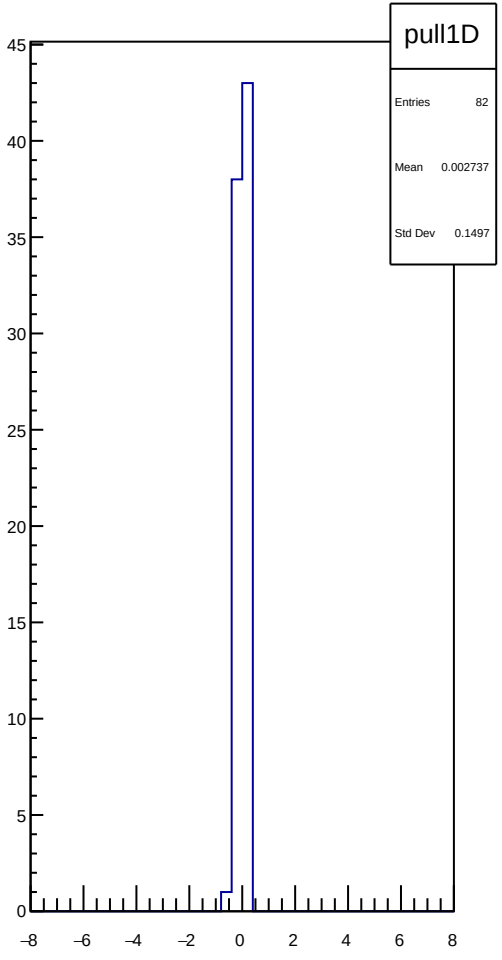

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.119 / 81
p0 −63.45 ± 1.961
pull
Entries 82
Mean −799.6
Std Dev 0
pull1D
Entries 82
Mean 0.0009412
Std Dev 0.1168

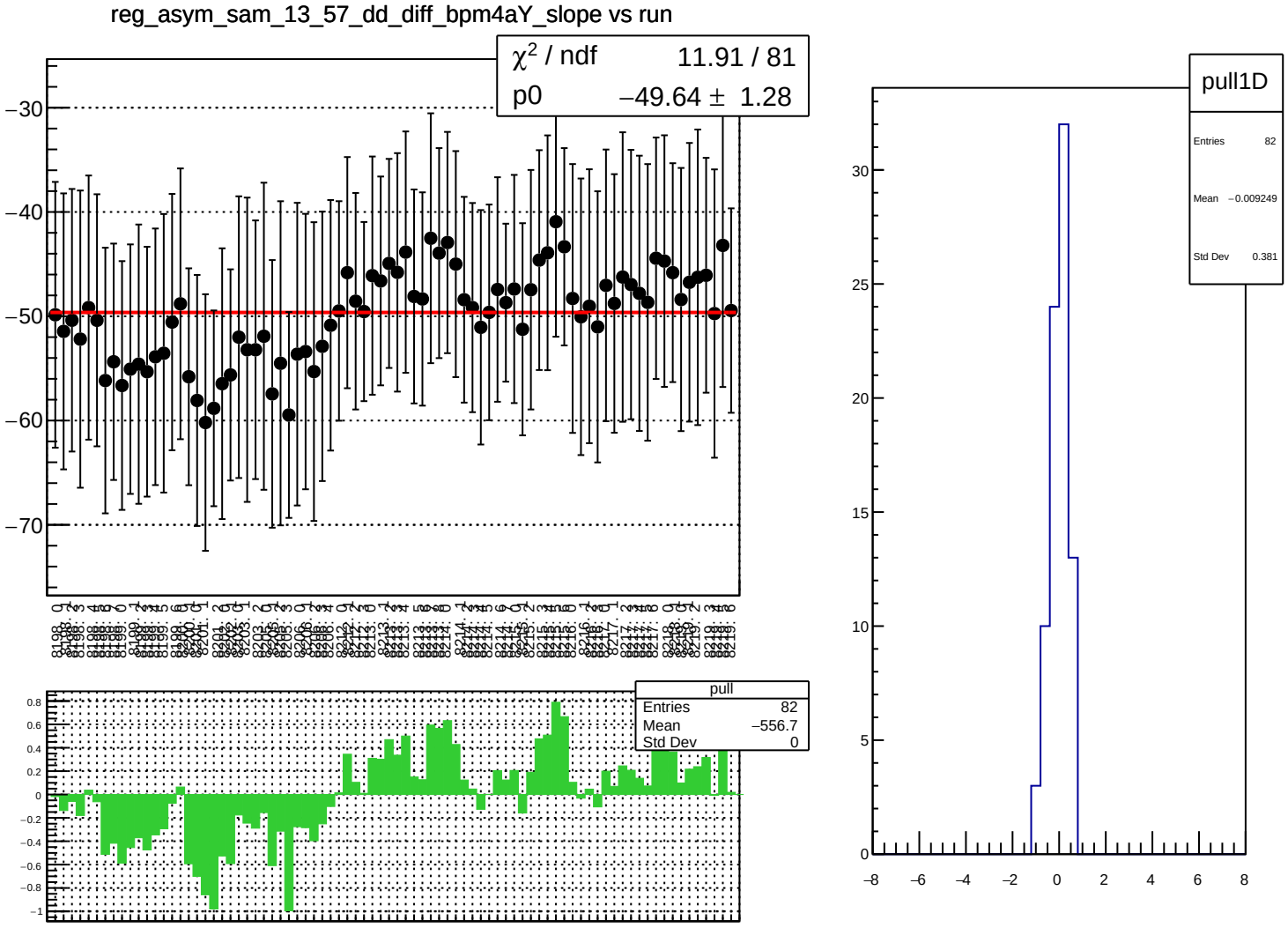

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.554 / 81
p0 54.99 ± 3.49
pull
Entries 82
Mean 14.18
Std Dev 76.64
pull1D
Entries 82
Mean −0.003623
Std Dev 0.1376

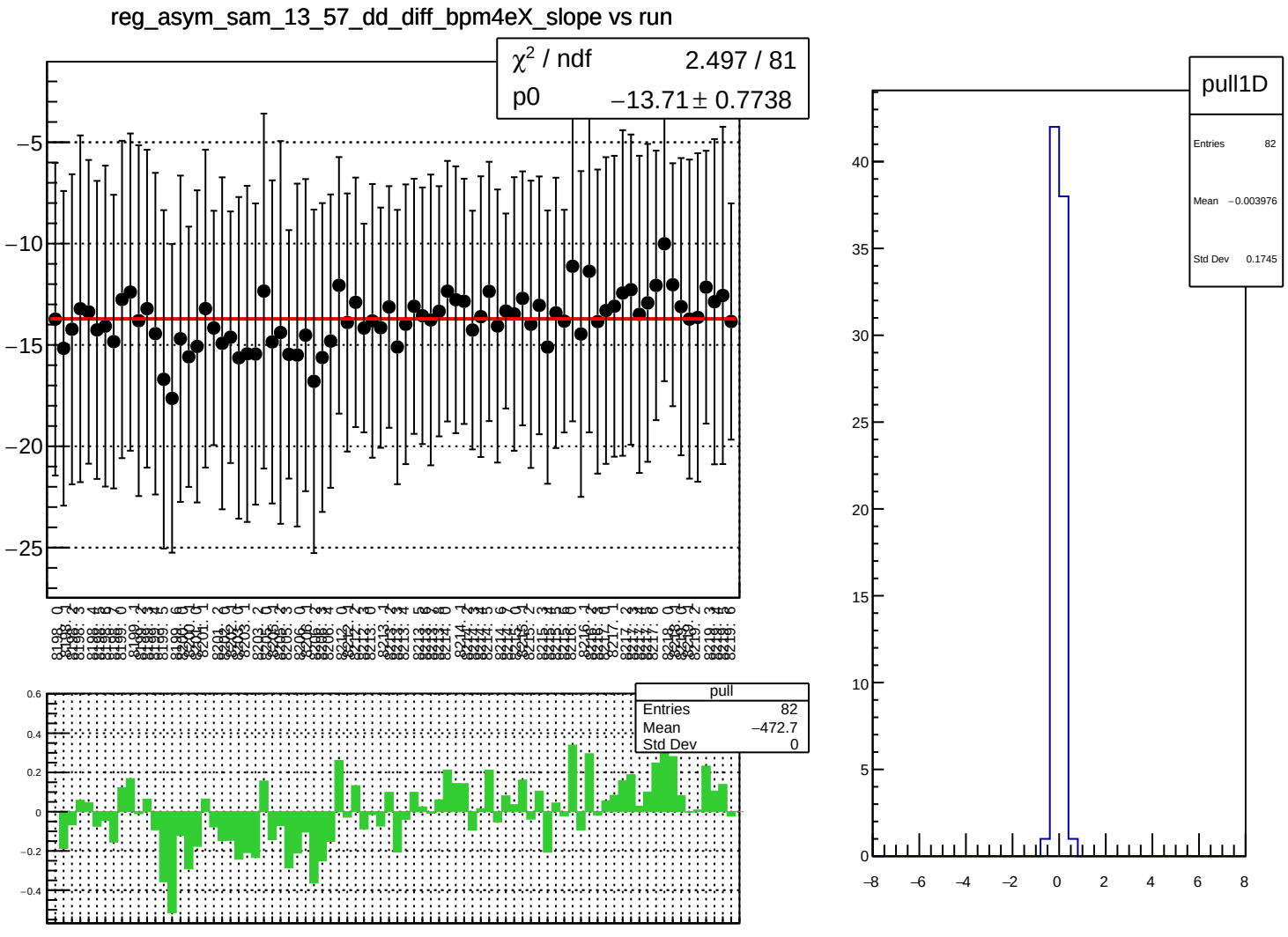

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.281 / 81
p0 −1.121 ± 0.1585
pull
Entries 82
Mean 2856
Std Dev 0

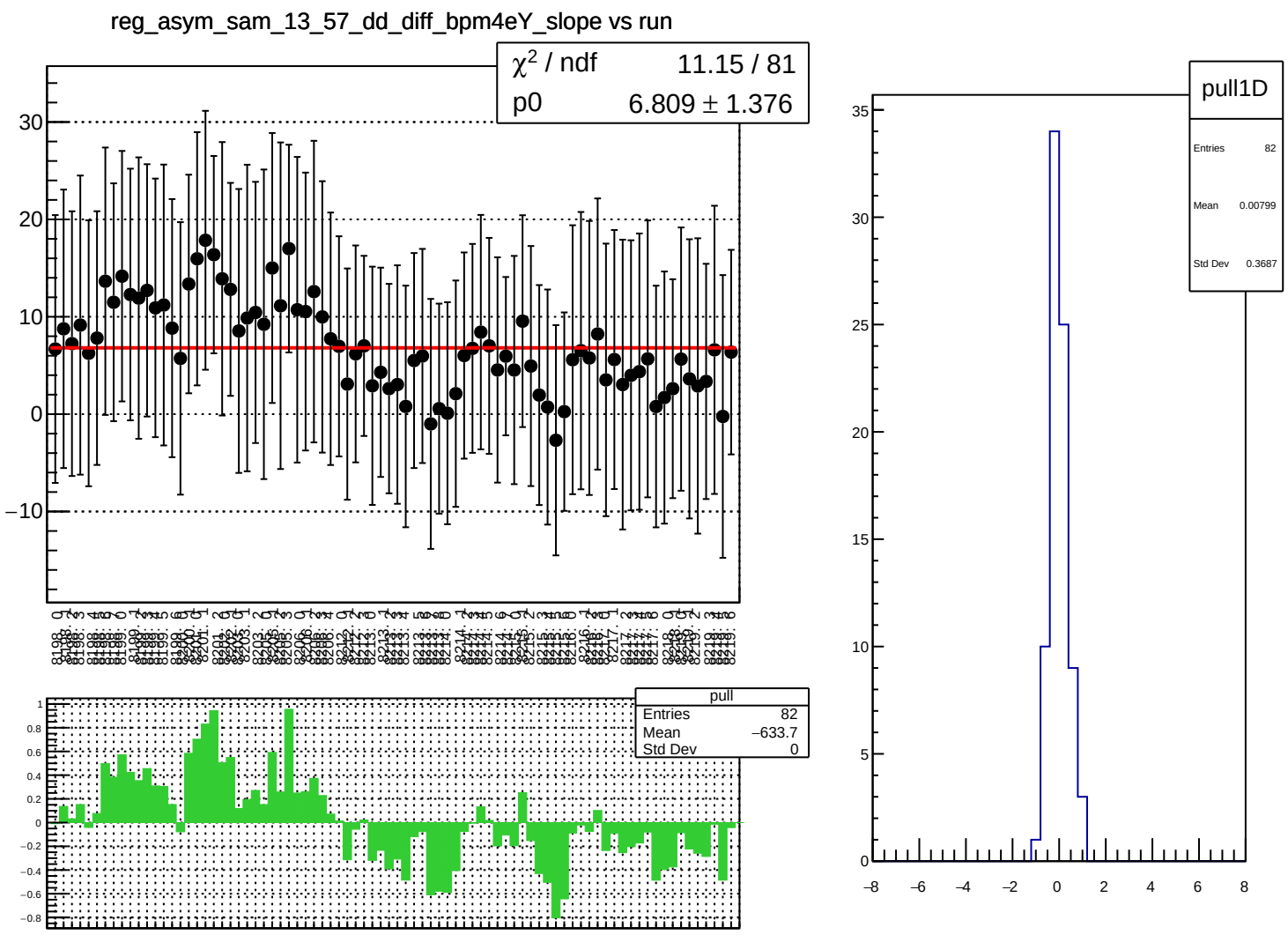

pull1D
Entries 82
Mean 0.0003905
Std Dev 0.125

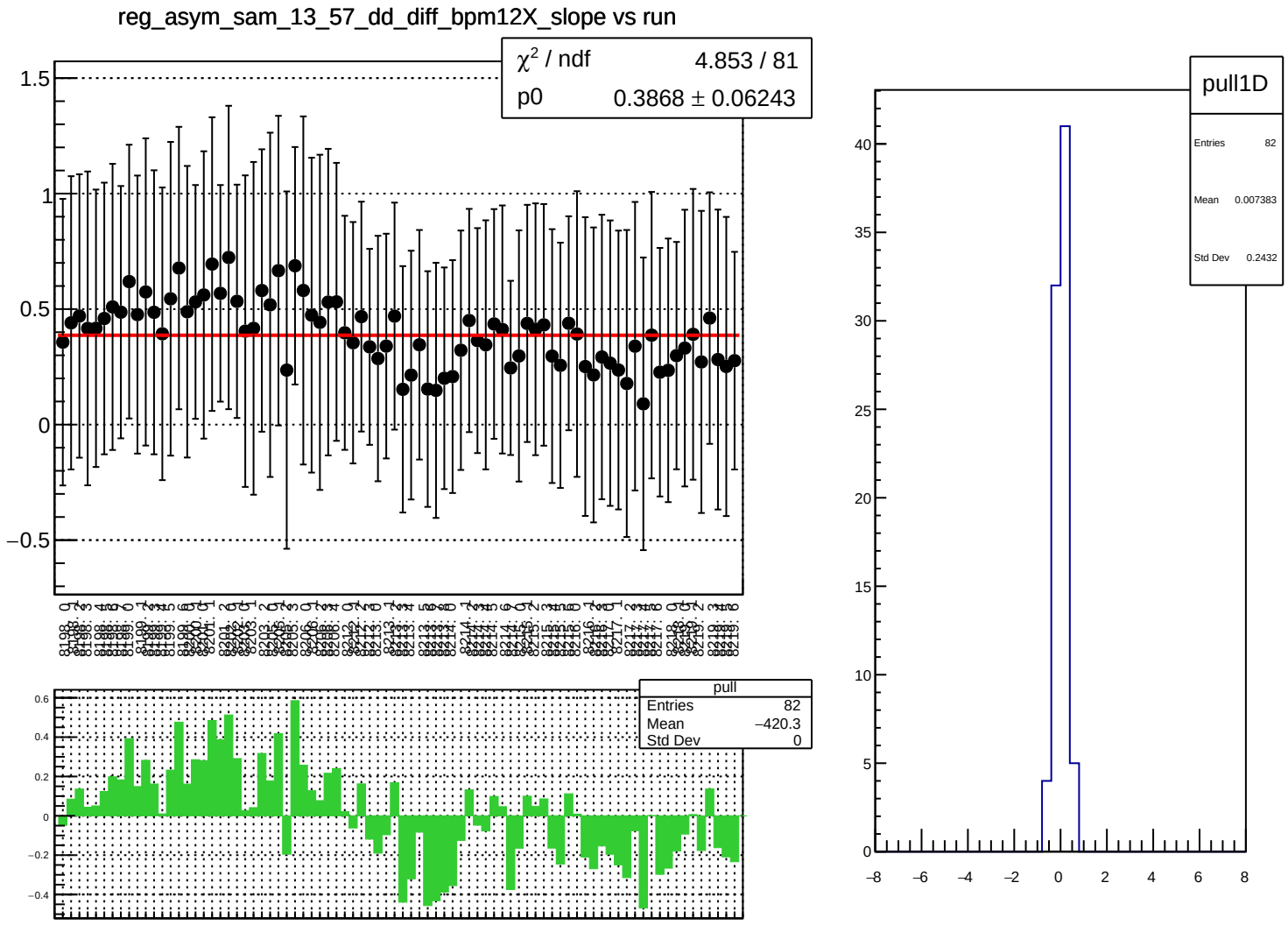

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 1.838 / 81
p0 −16.2 ± 0.7709
pull
Entries 82
Mean −473.2
Std Dev 0

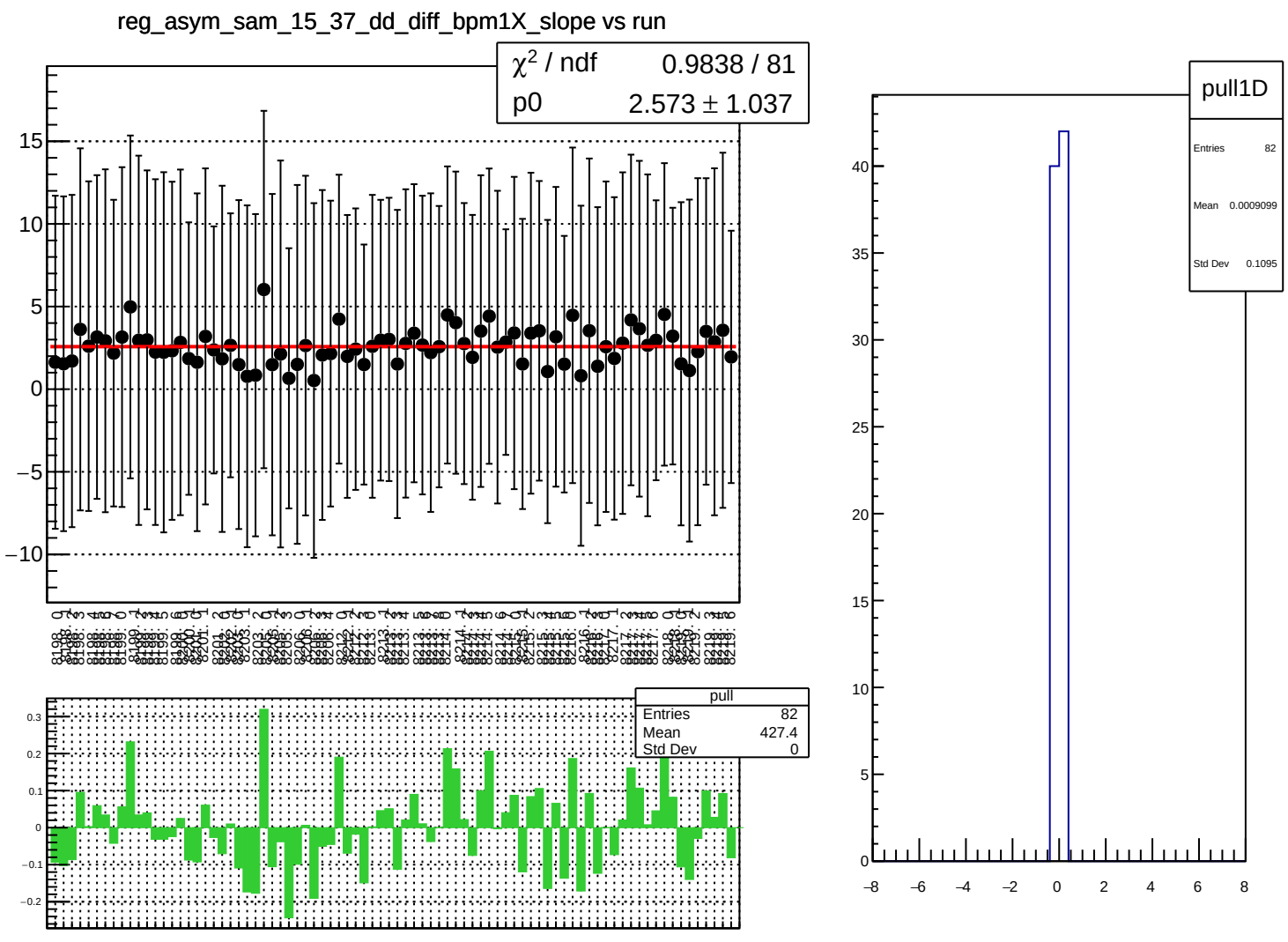

pull1D
Entries 82
Mean 0.002737
Std Dev 0.1497

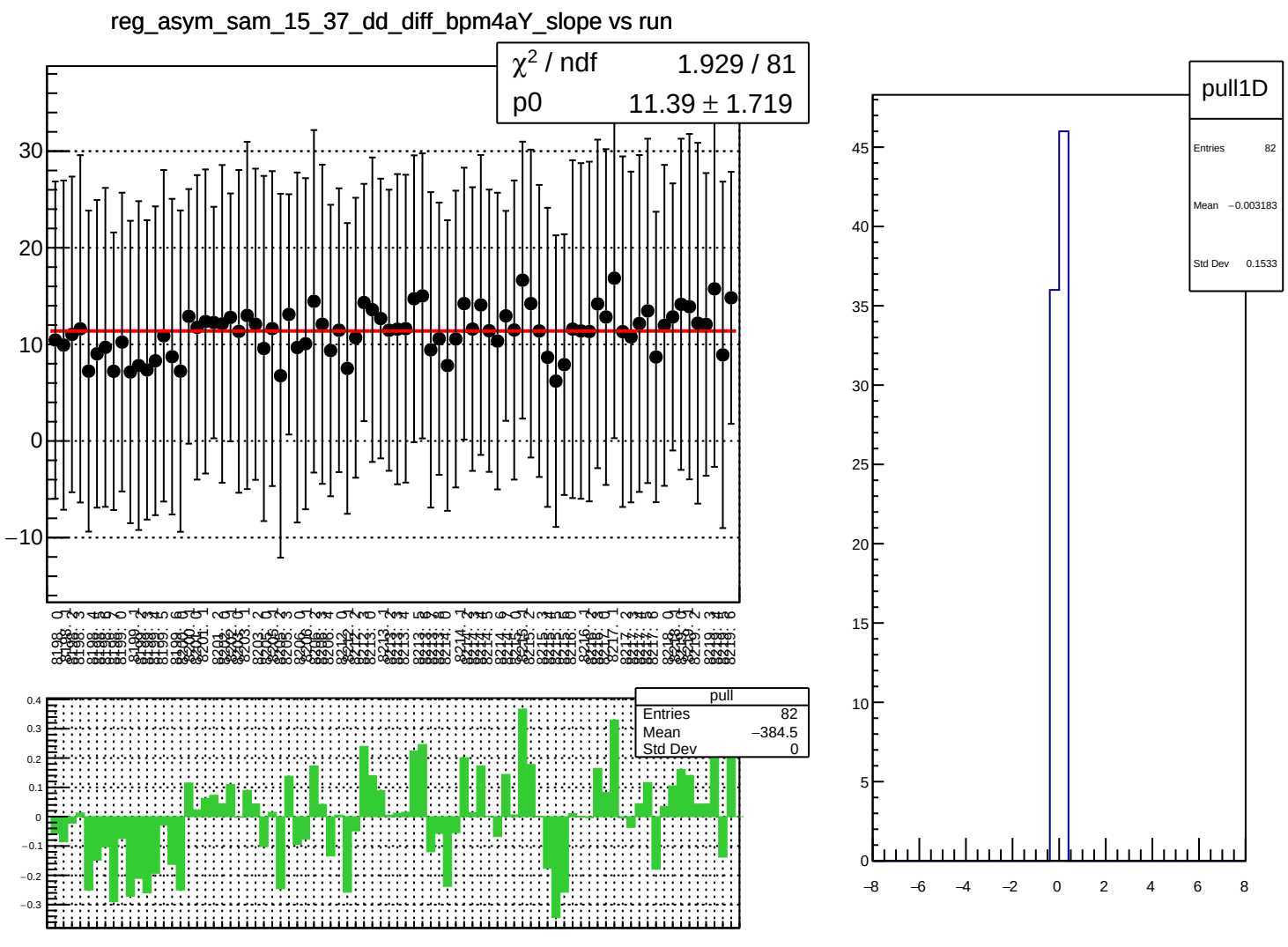

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.91 / 81
p0 −49.64 ± 1.28
−30
−40
−50
−60
−70
pull
Entries 82
Mean −556.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 82
Mean −0.009249
Std Dev 0.381
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

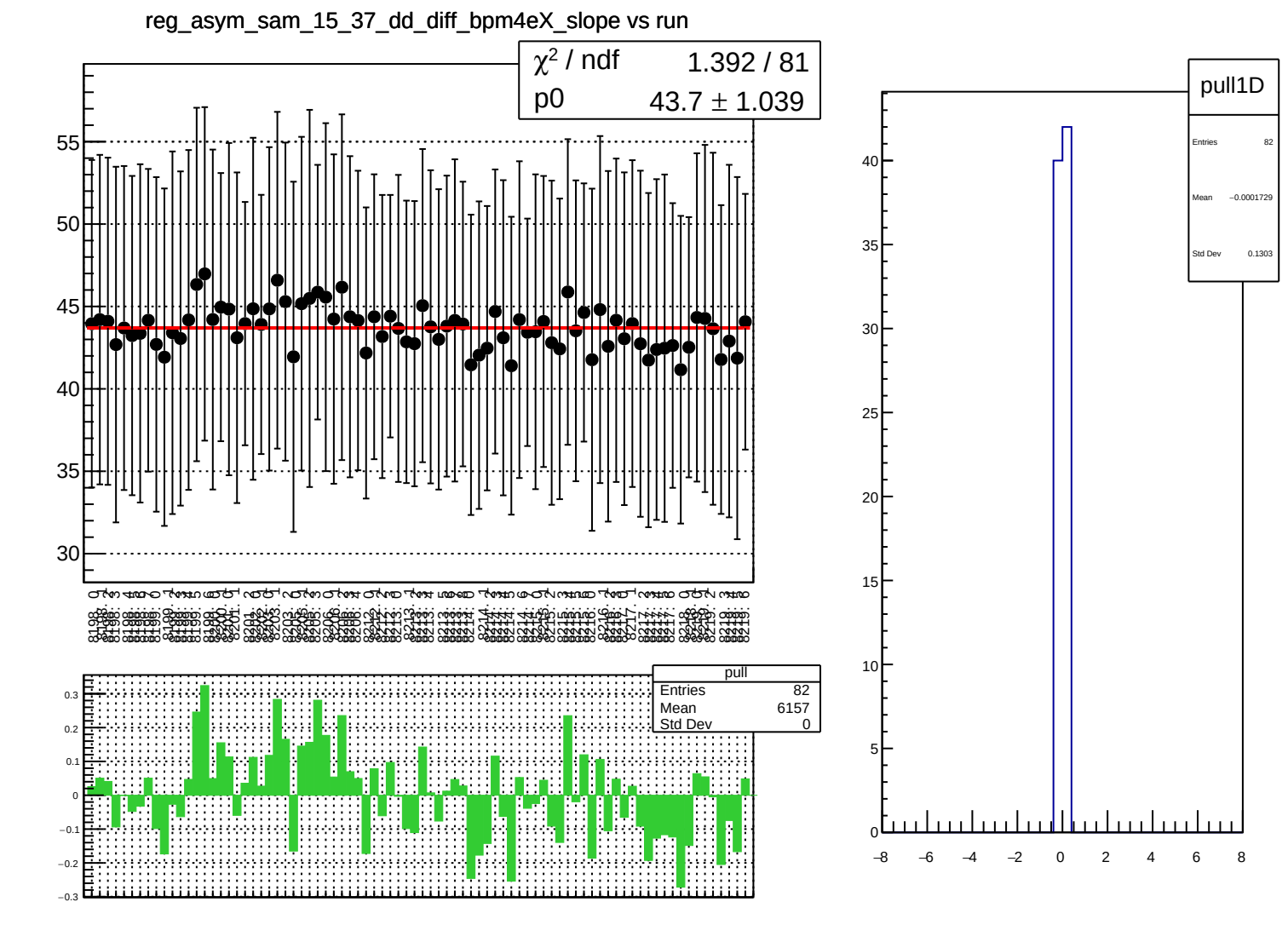

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.497 / 81
p0 −13.71 ± 0.7738
−5
−10
−15
−20
−25
pull
Entries 82
Mean −472.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 82
Mean −0.003976
Std Dev 0.1745
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

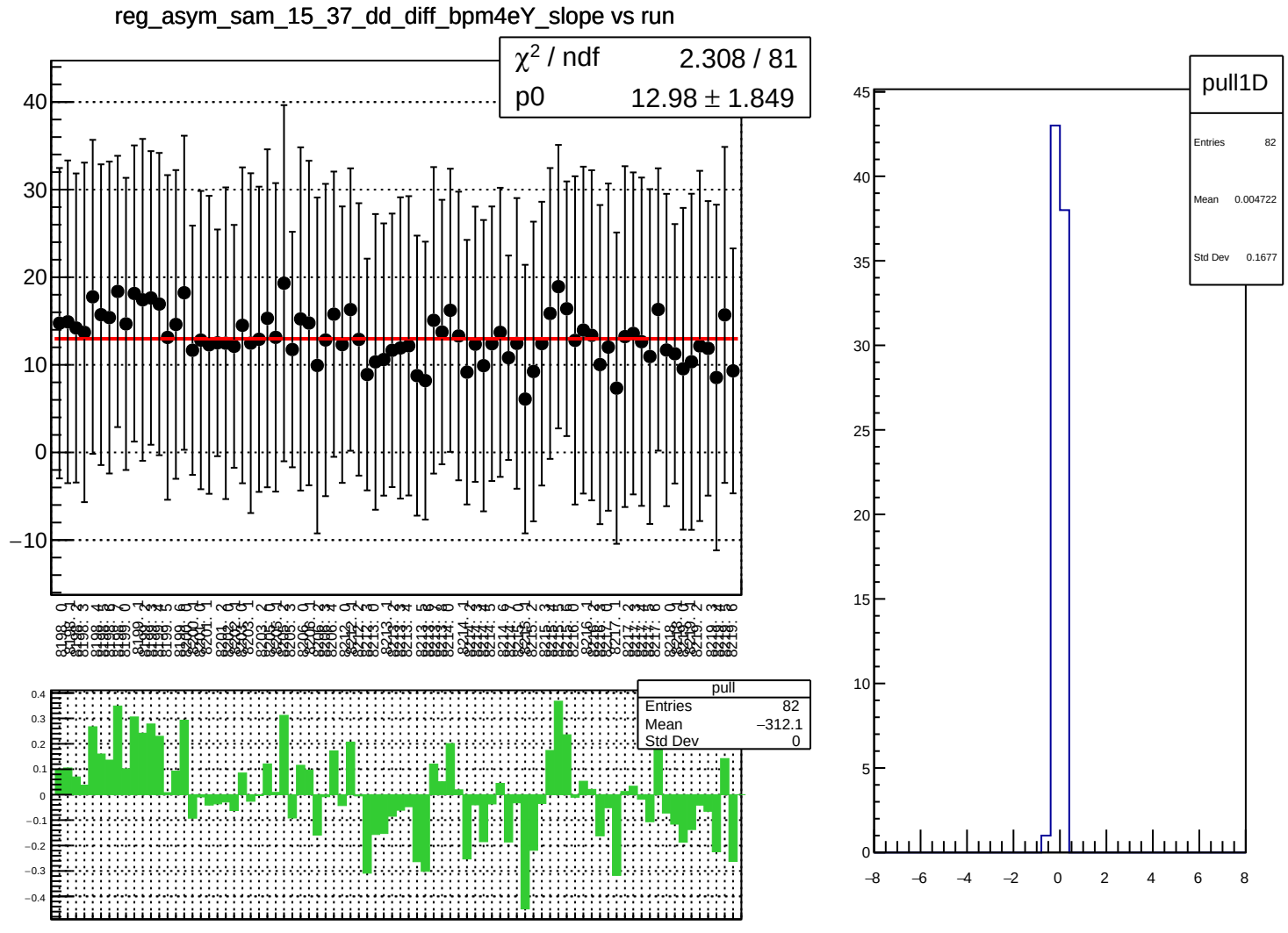

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.15 / 81
p0 6.809 ± 1.376
pull
Entries 82
Mean −633.7
Std Dev 0
pull1D
Entries 82
Mean 0.00799
Std Dev 0.3687

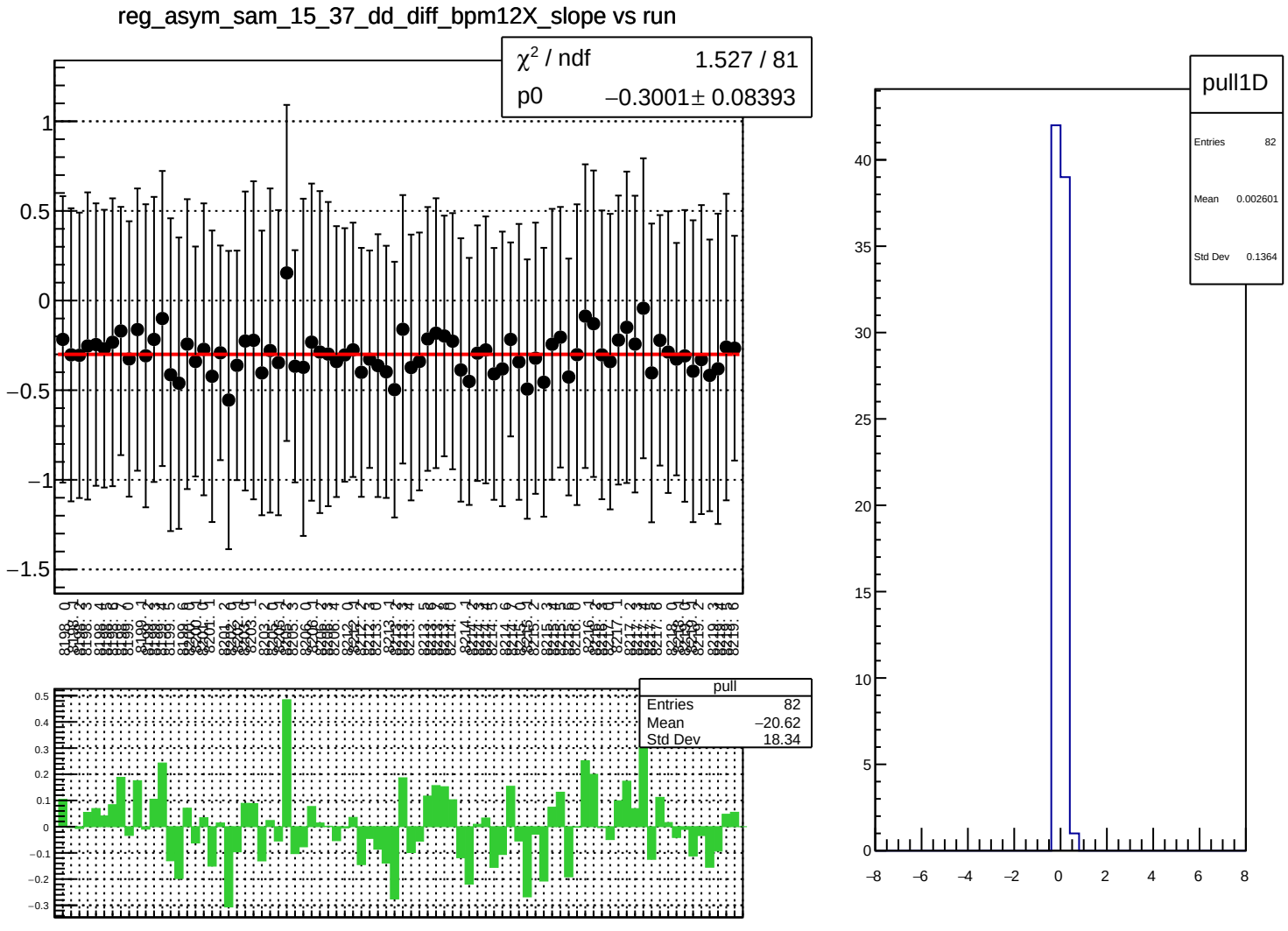

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 4.853 / 81
p0 0.3868 ± 0.06243
pull
Entries 82
Mean −420.3
Std Dev 0
pull1D
Entries 82
Mean 0.007383
Std Dev 0.2432

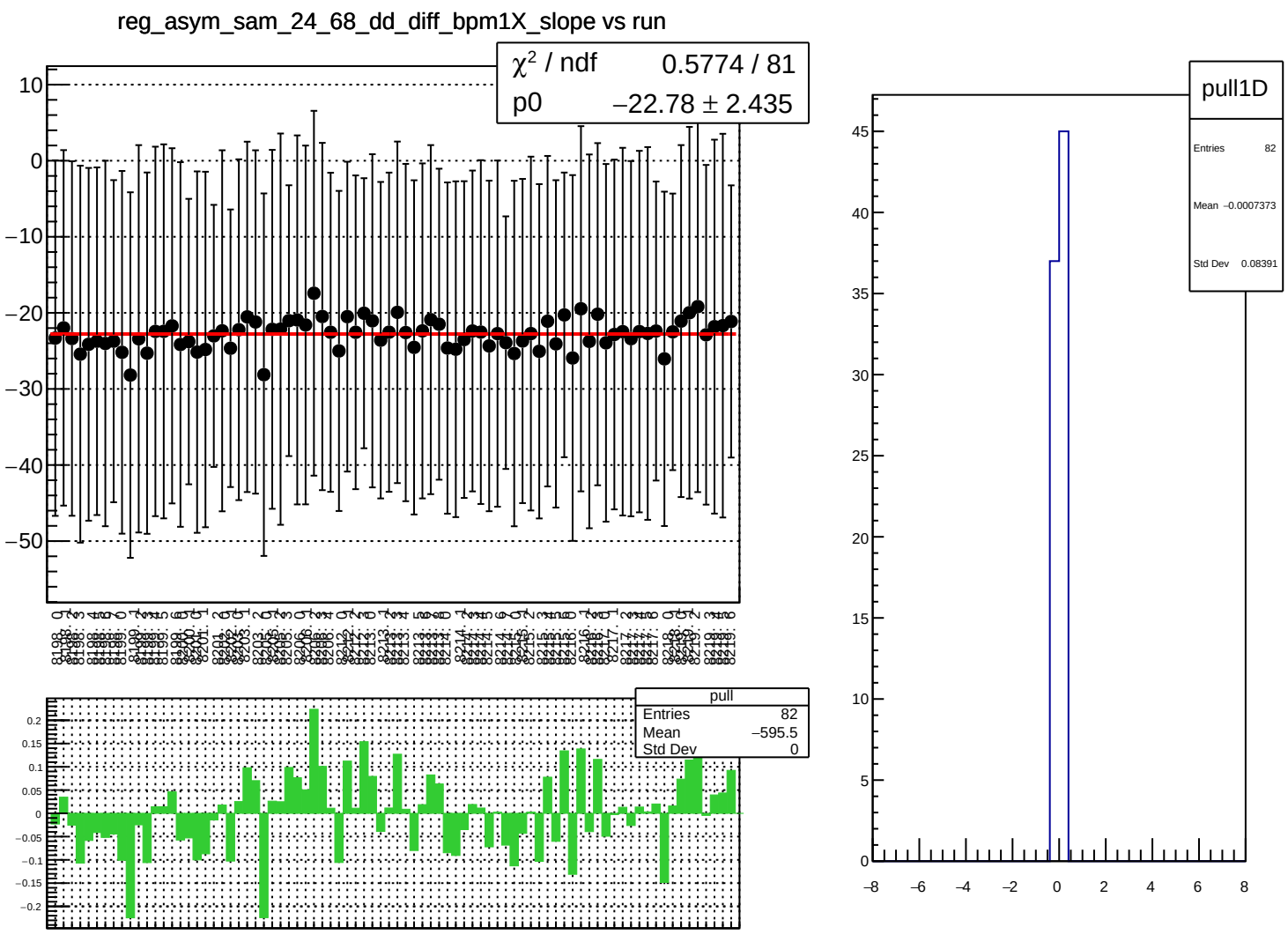

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 0.9838 / 81
p0 2.573 ± 1.037
pull
Entries 82
Mean 427.4
Std Dev 0
pull1D
Entries 82
Mean 0.0009099
Std Dev 0.1095

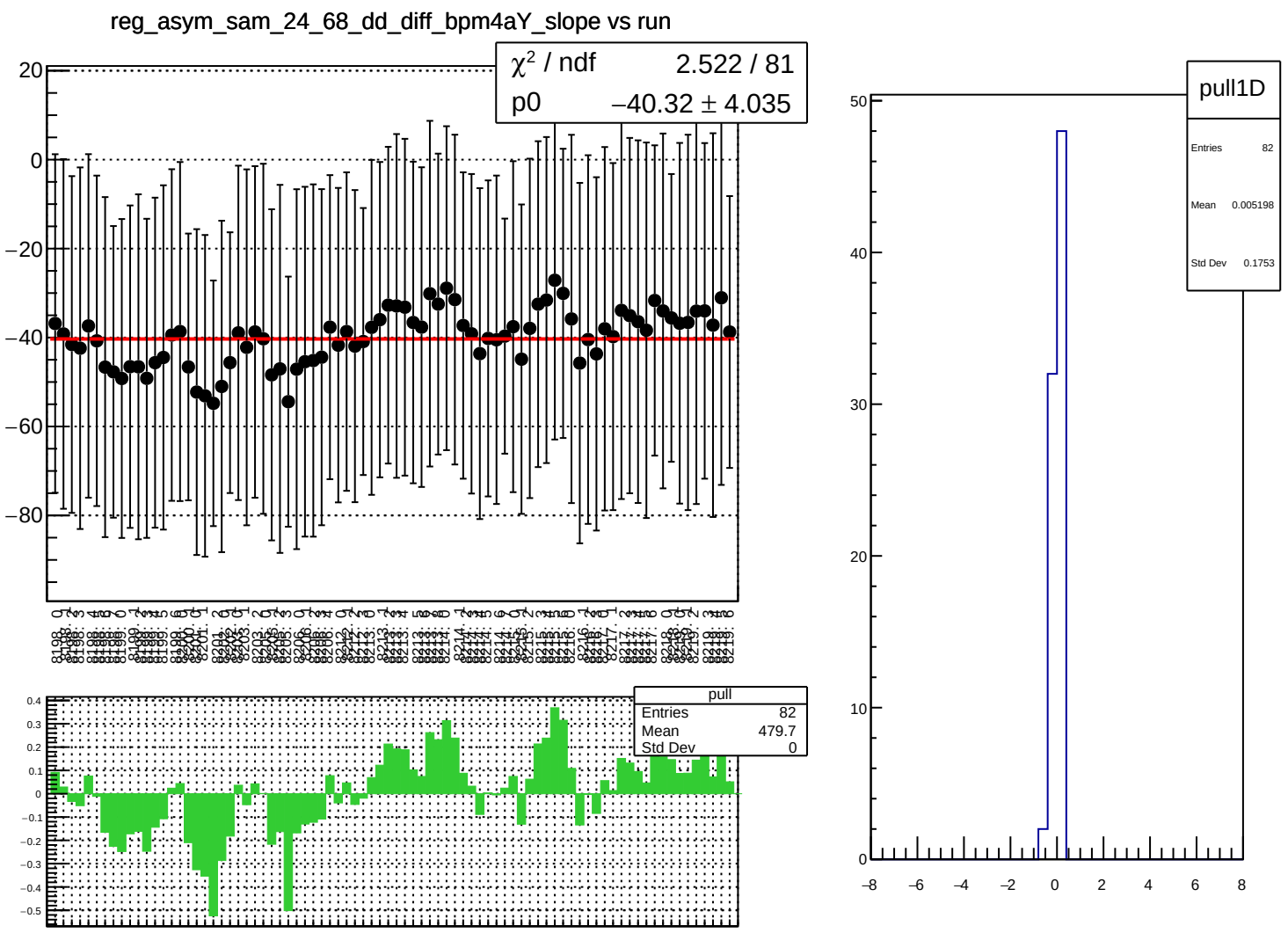

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.929 / 81
p0 11.39 ± 1.719
pull
Entries 82
Mean −384.5
Std Dev 0
pull1D
Entries 82
Mean −0.003183
Std Dev 0.1533

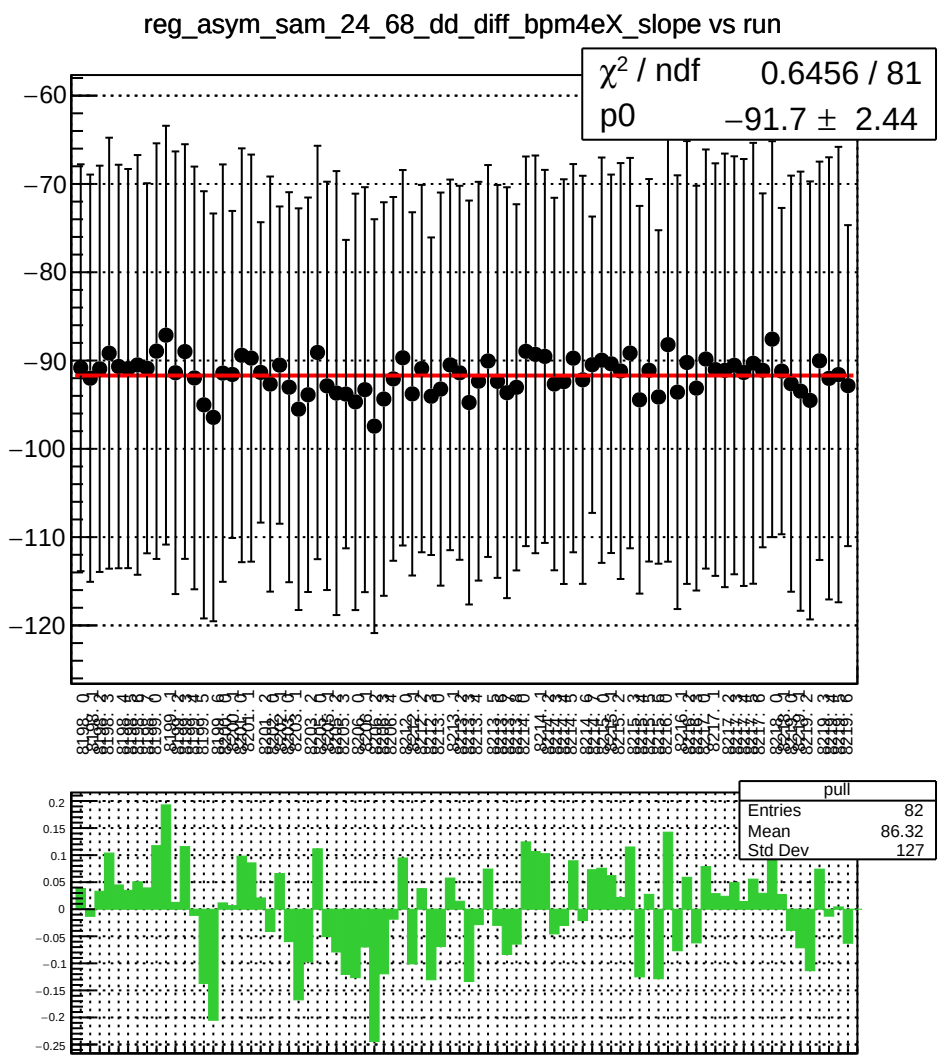

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.392 / 81
p0 43.7 ± 1.039
pull
Entries 82
Mean 6157
Std Dev 0
pull1D
Entries 82
Mean −0.0001729
Std Dev 0.1303

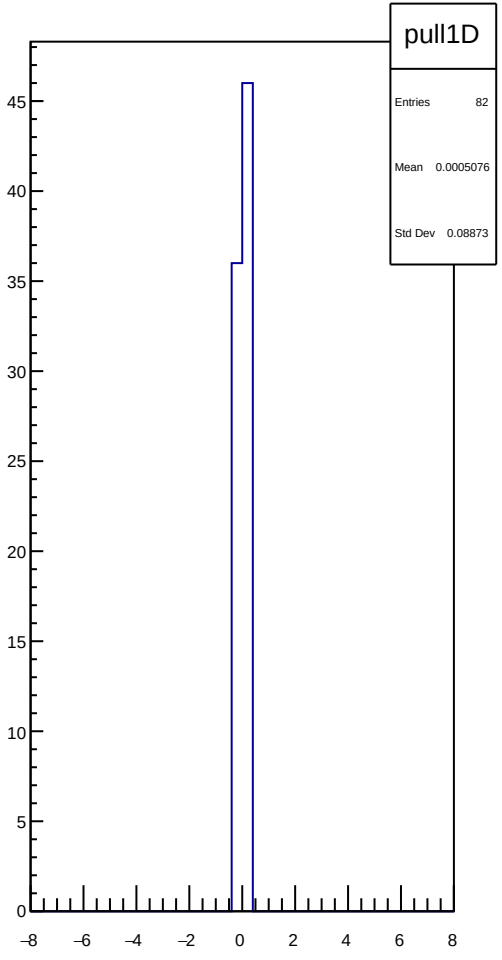

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.308 / 81
p0 12.98 ± 1.849
pull
Entries 82
Mean −312.1
Std Dev 0
pull1D
Entries 82
Mean 0.004722
Std Dev 0.1677

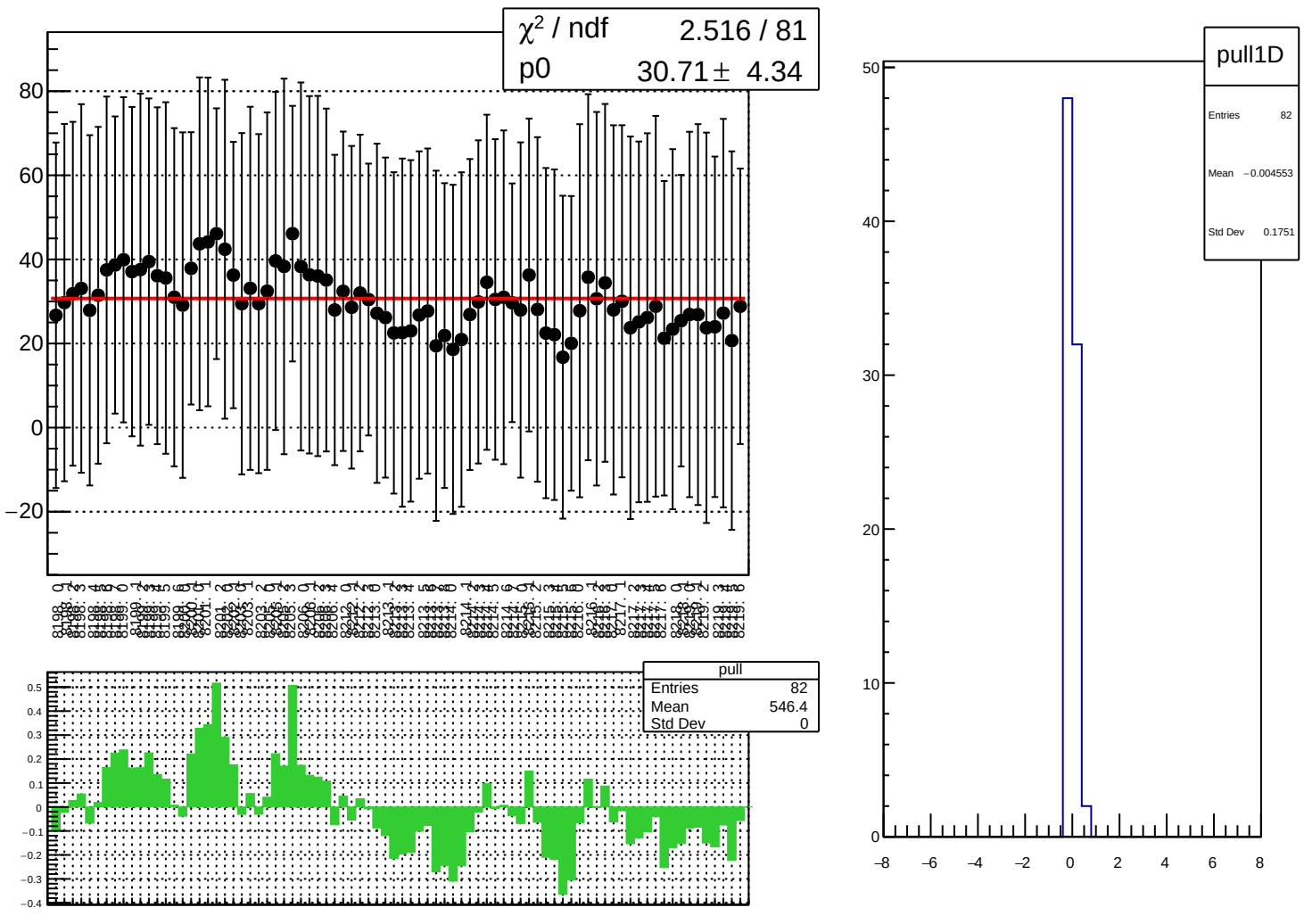

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.527 / 81
p0 −0.3001 ± 0.08393
pull
Entries 82
Mean −20.62
Std Dev 18.34
pull1D
Entries 82
Mean 0.002601
Std Dev 0.1364

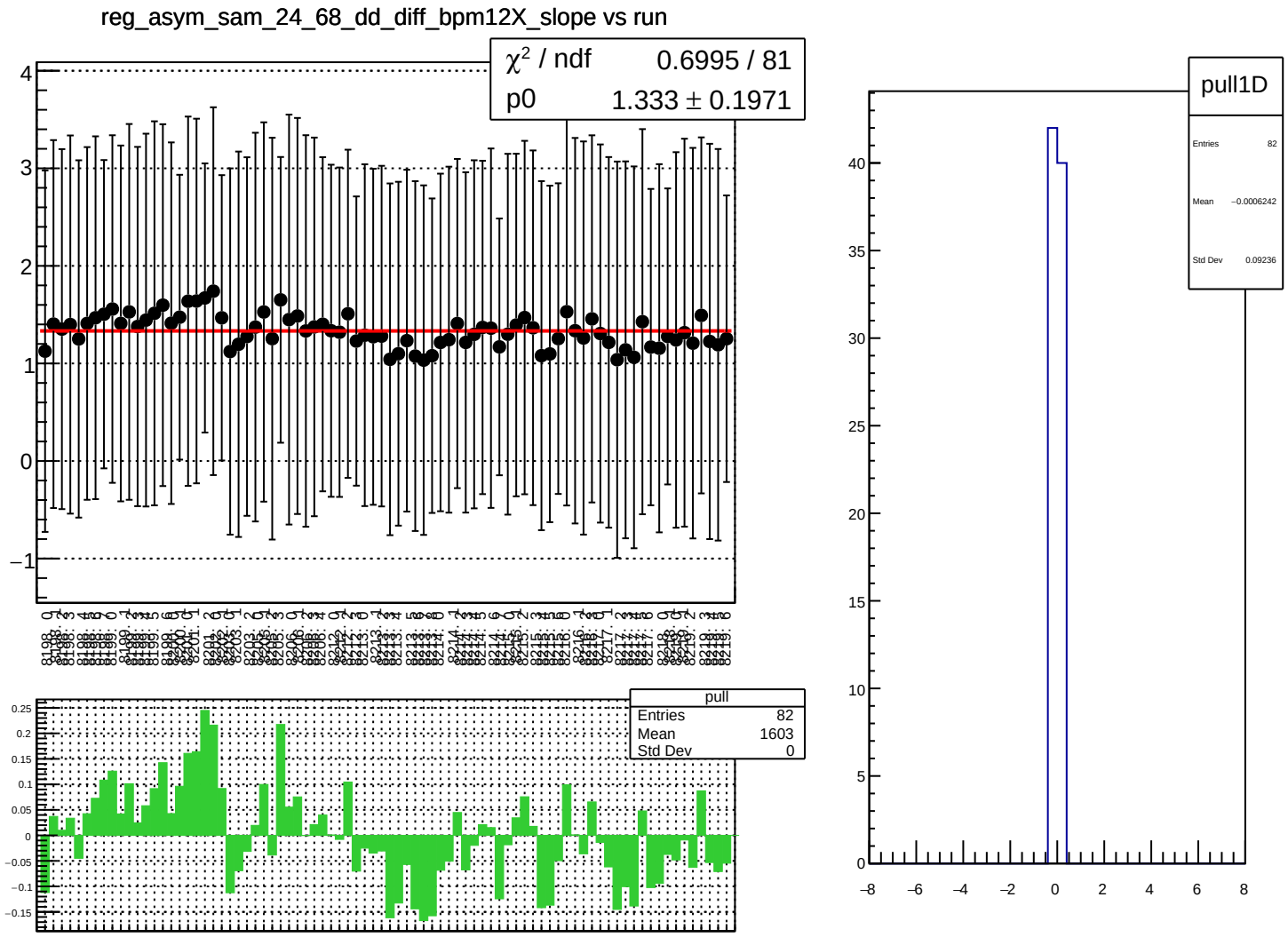

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.5774 / 81
p0 −22.78 ± 2.435
pull
Entries 82
Mean −595.5
Std Dev 0
pull1D
Entries 82
Mean −0.0007373
Std Dev 0.08391

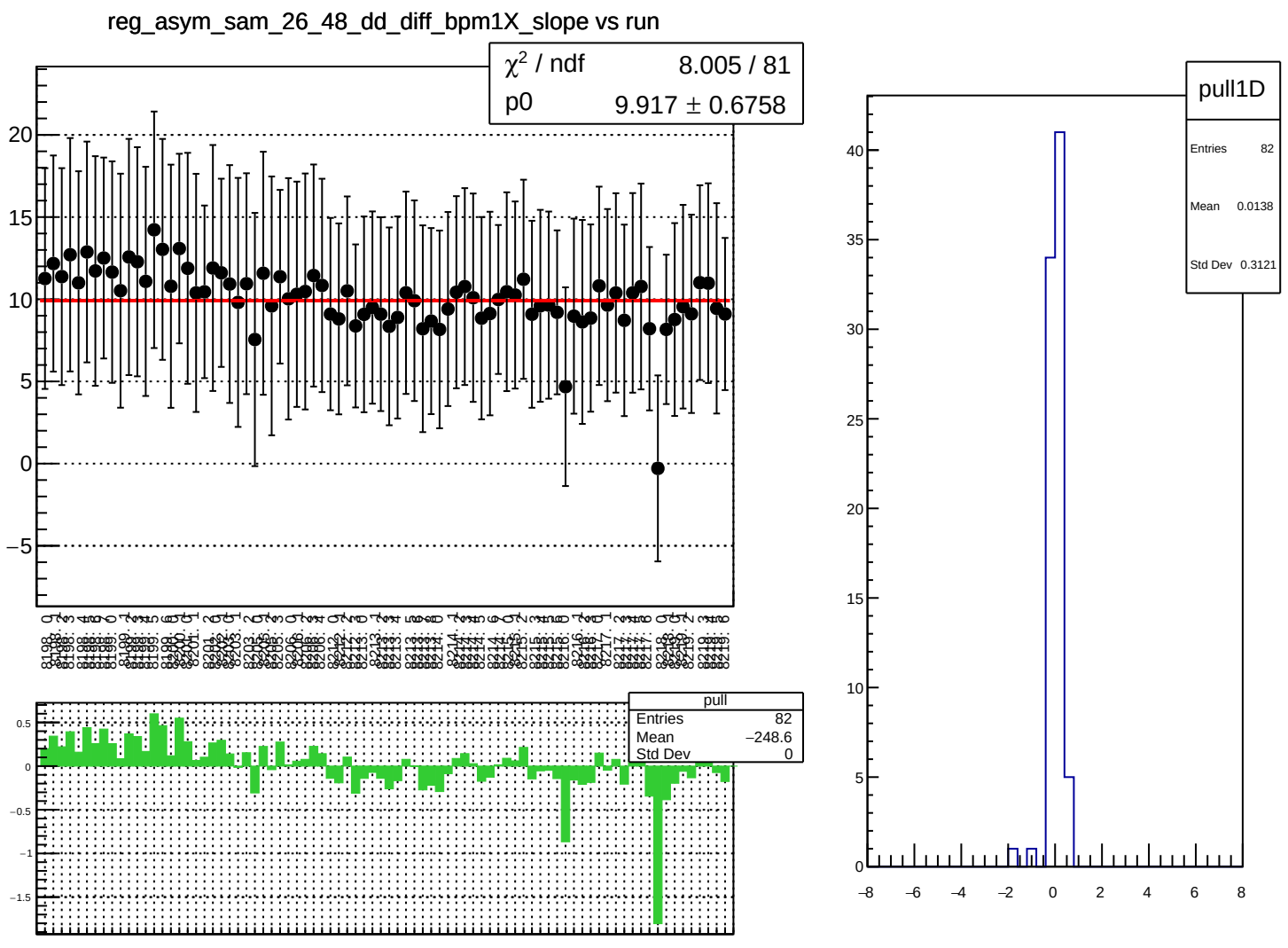

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.522 / 81
p0 −40.32 ± 4.035
pull
Entries 82
Mean 479.7
Std Dev 0
pull1D
Entries 82
Mean 0.005198
Std Dev 0.1753

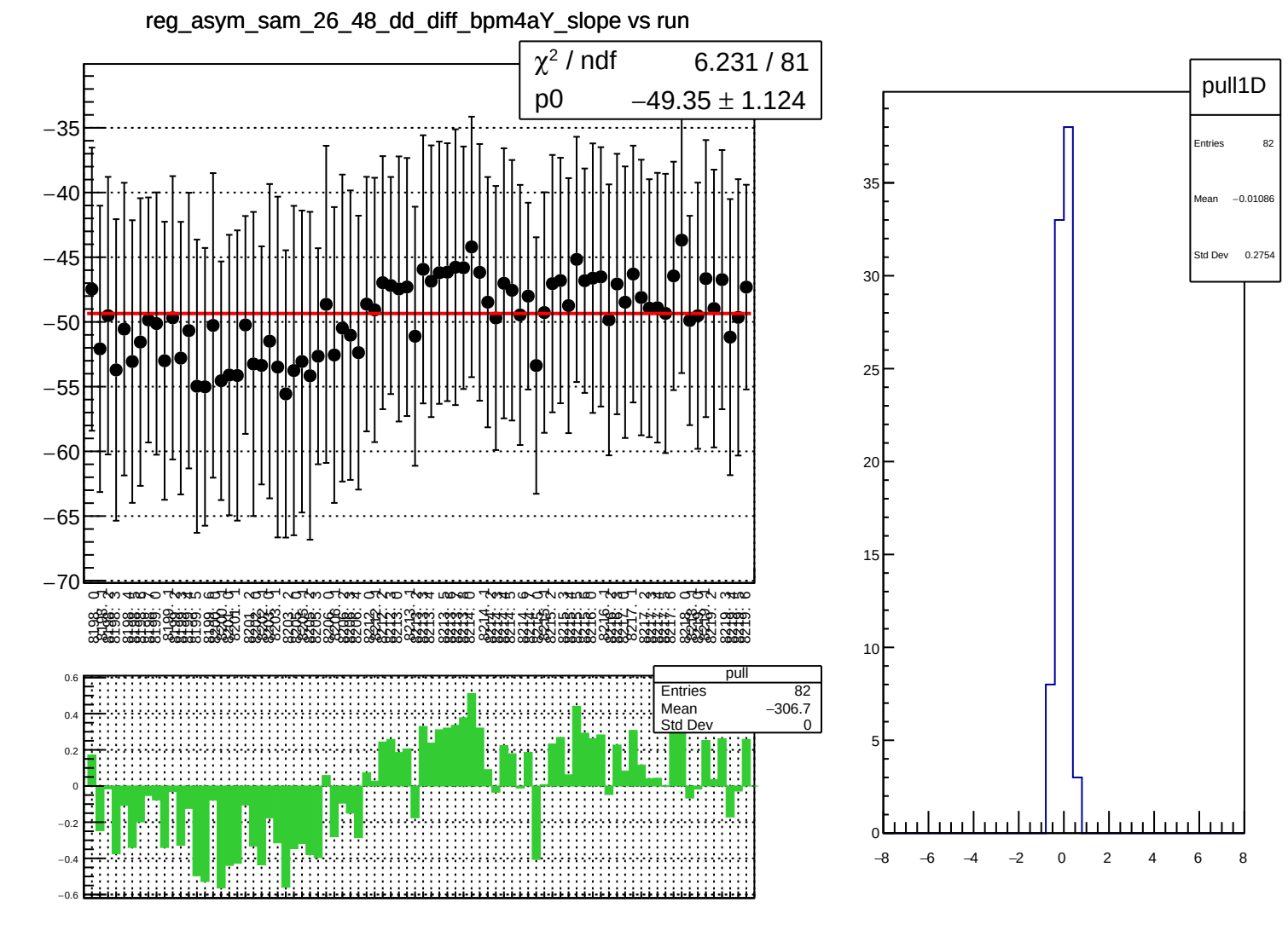

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.6456 / 81
p0 −91.7 ± 2.44
pull
Entries 82
Mean 86.32
Std Dev 127

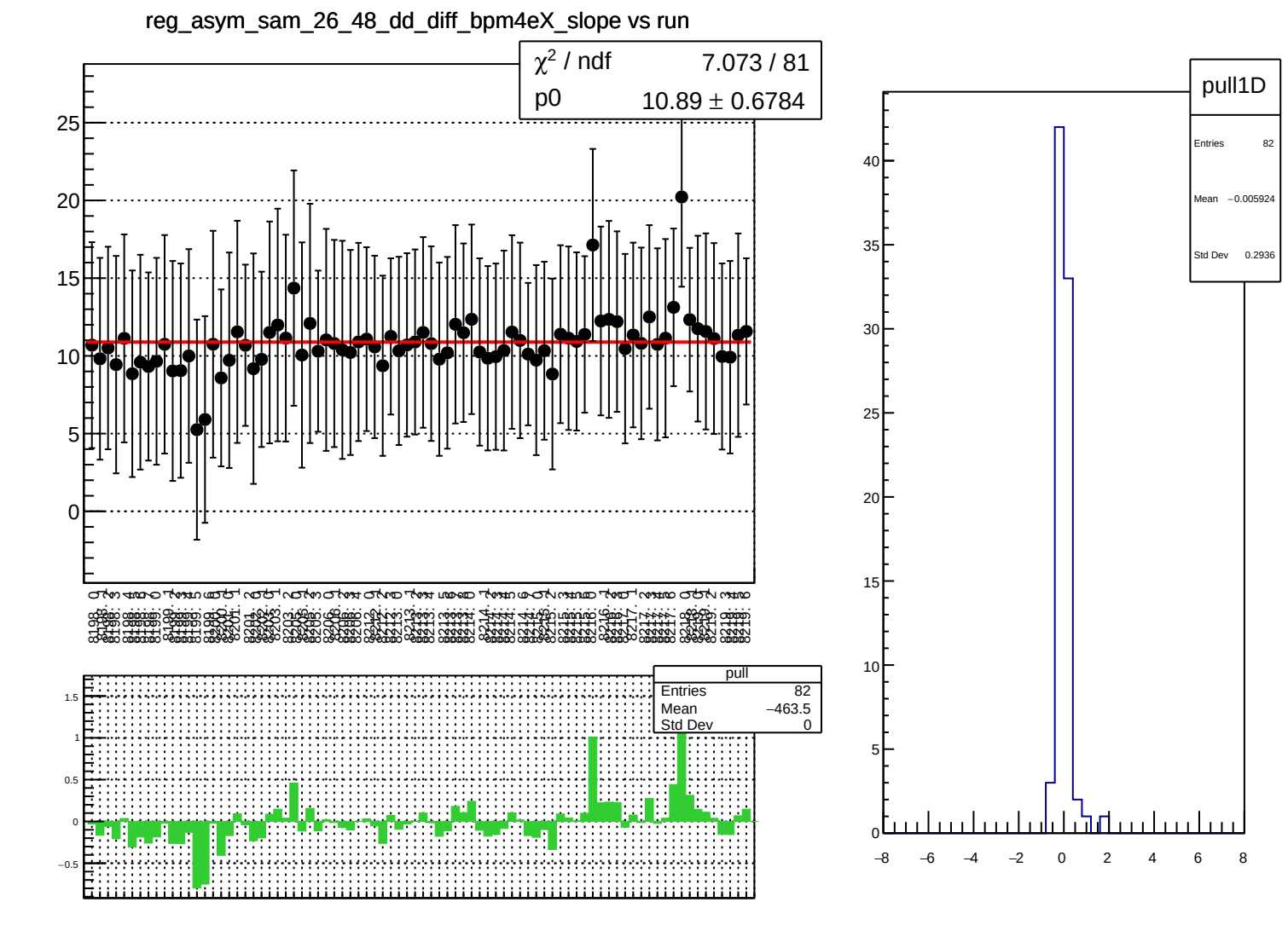

pull1D
Entries 82
Mean 0.0005076
Std Dev 0.08873

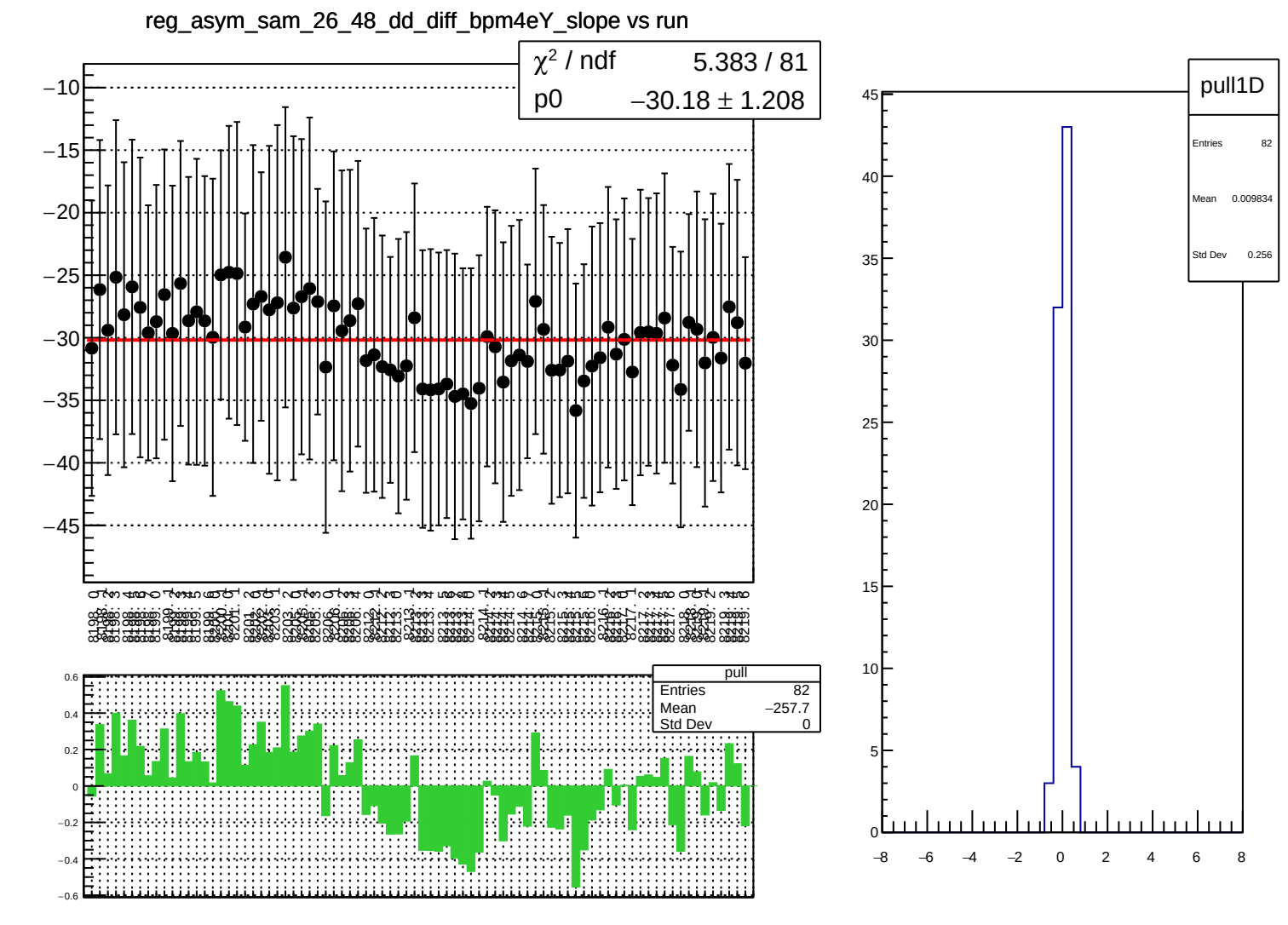

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.516 / 81
p0 30.71 ± 4.34
pull
Entries 82
Mean 546.4
Std Dev 0
pull1D
Entries 82
Mean −0.004553
Std Dev 0.1751

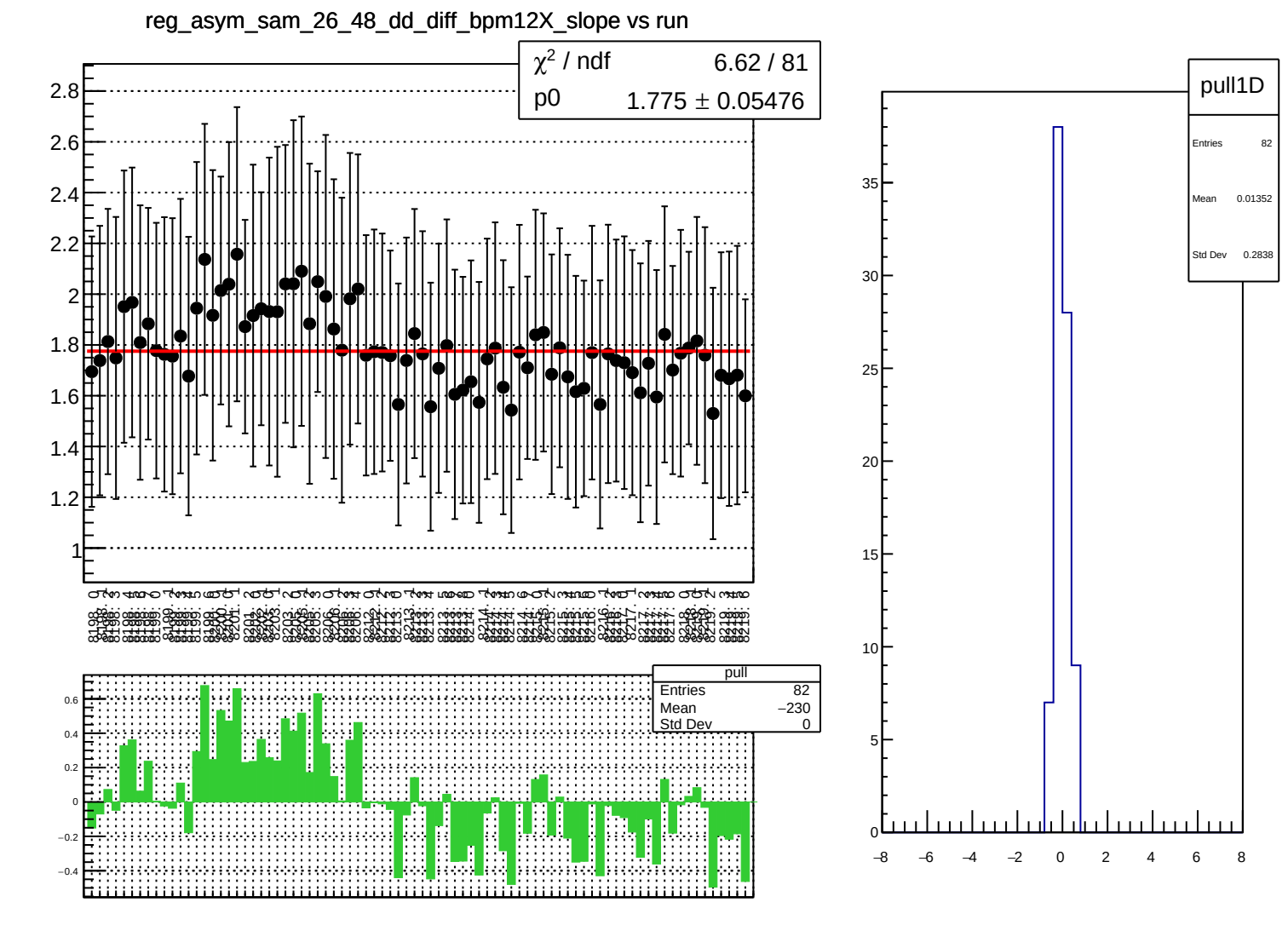

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.6995 / 81
p0 1.333 ± 0.1971
pull
Entries 82
Mean 1603
Std Dev 0
pull1D
Entries 82
Mean −0.0006242
Std Dev 0.09236

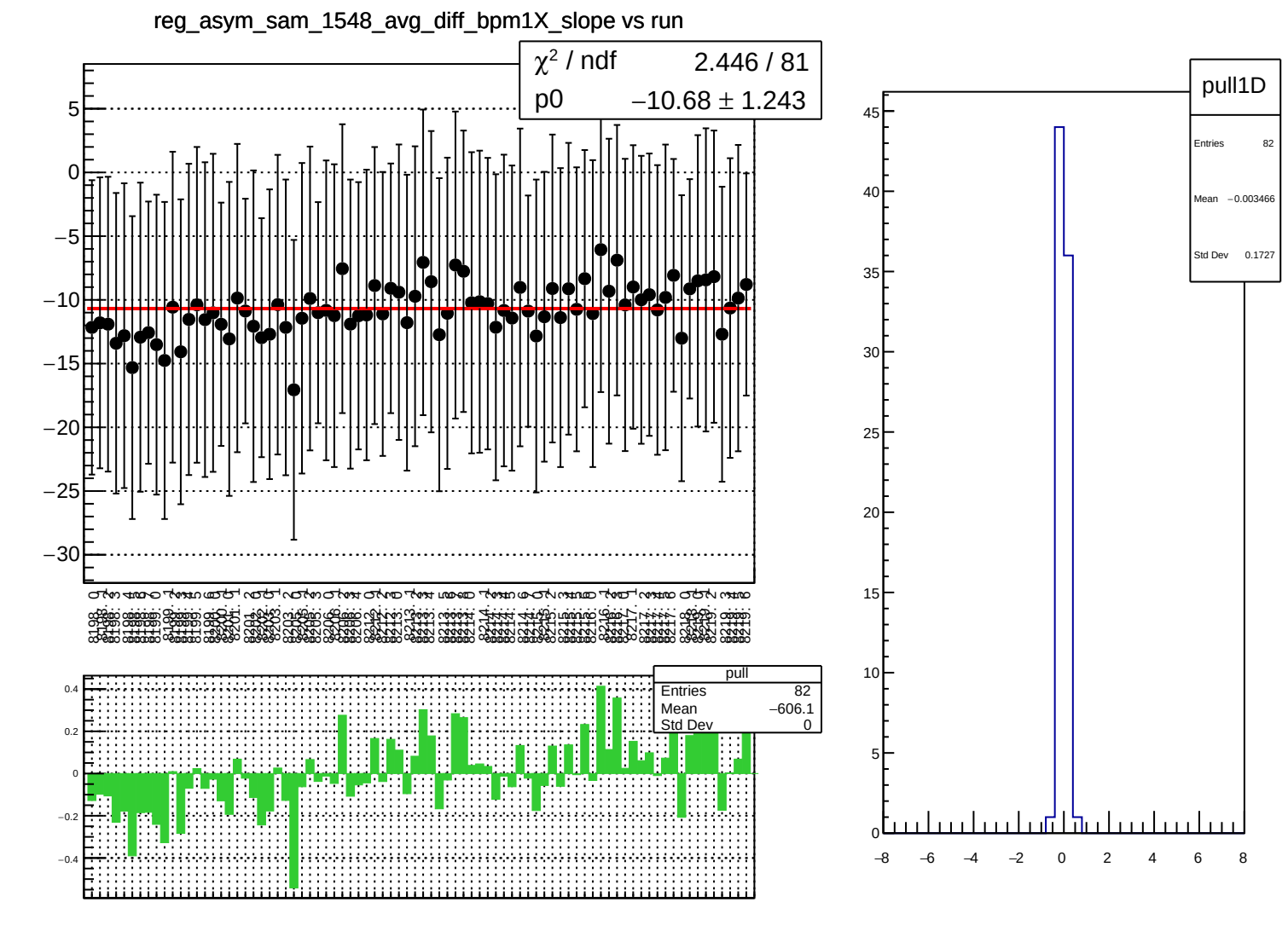

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 8.005 / 81
p0 9.917 ± 0.6758
pull
Entries 82
Mean −248.6
Std Dev 0
pull1D
Entries 82
Mean 0.0138
Std Dev 0.3121

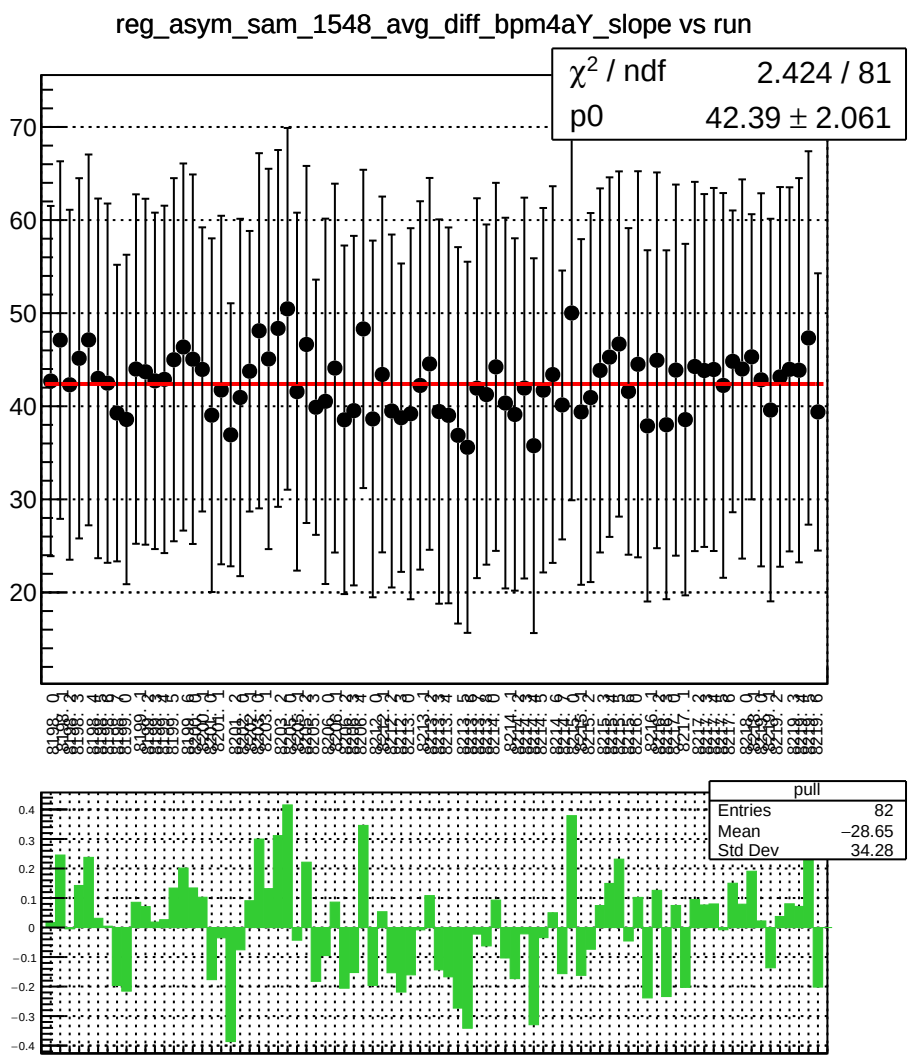

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.231 / 81
p0 −49.35 ± 1.124
pull
Entries 82
Mean −306.7
Std Dev 0
pull1D
Entries 82
Mean −0.01086
Std Dev 0.2754

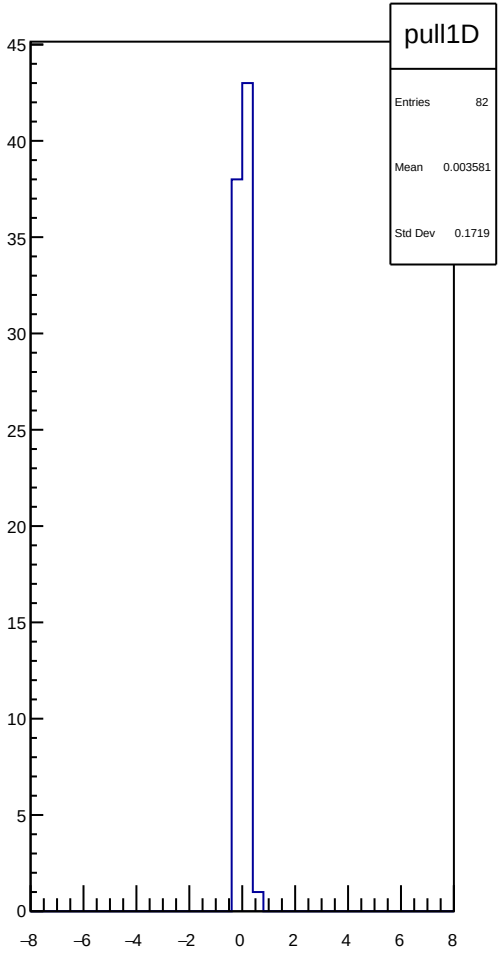

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.073 / 81
p0 10.89 ± 0.6784
pull
Entries 82
Mean −463.5
Std Dev 0
pull1D
Entries 82
Mean −0.005924
Std Dev 0.2936

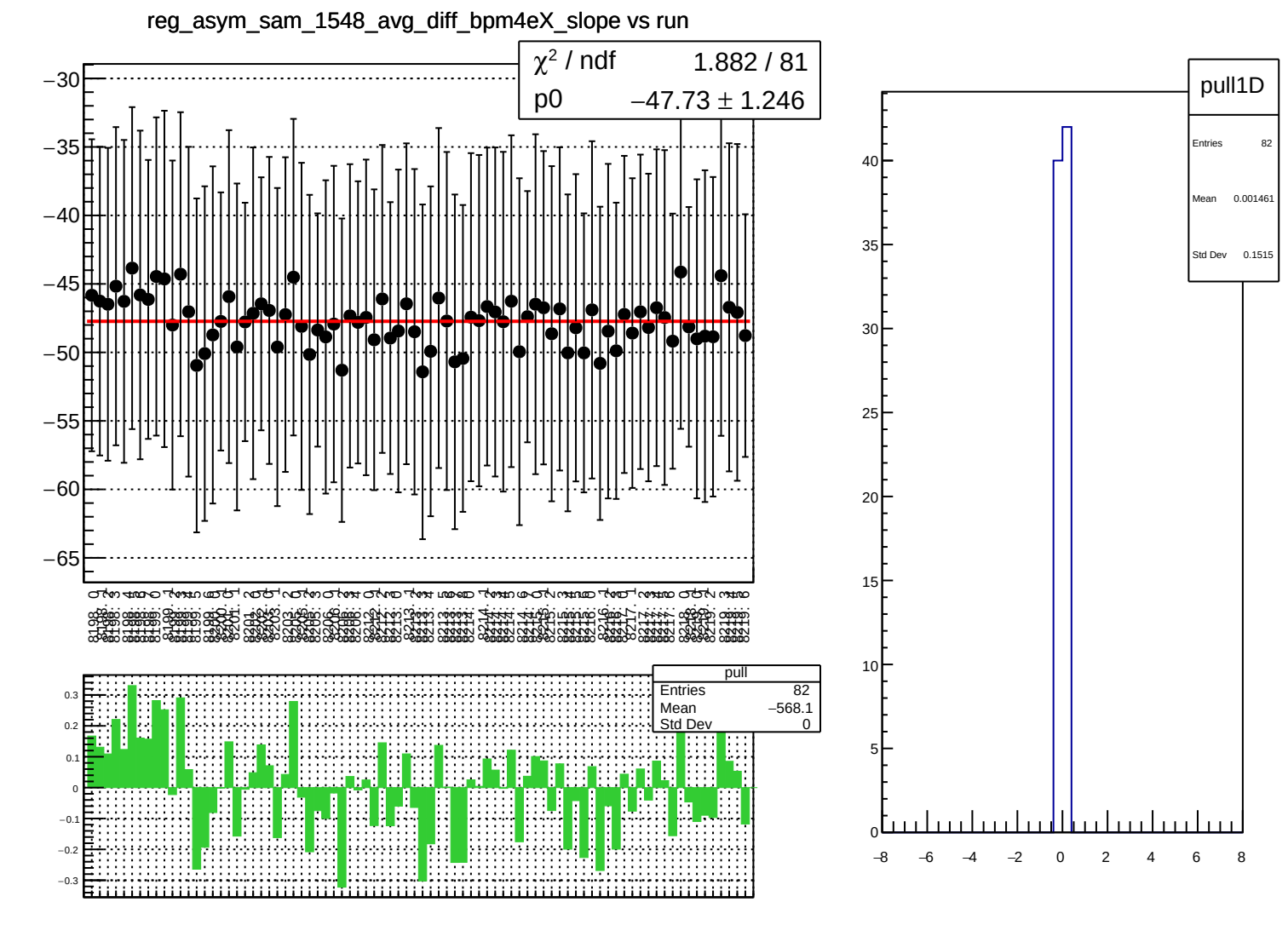

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.383 / 81
p0 −30.18 ± 1.208
pull
Entries 82
Mean −257.7
Std Dev 0
pull1D
Entries 82
Mean 0.009834
Std Dev 0.256

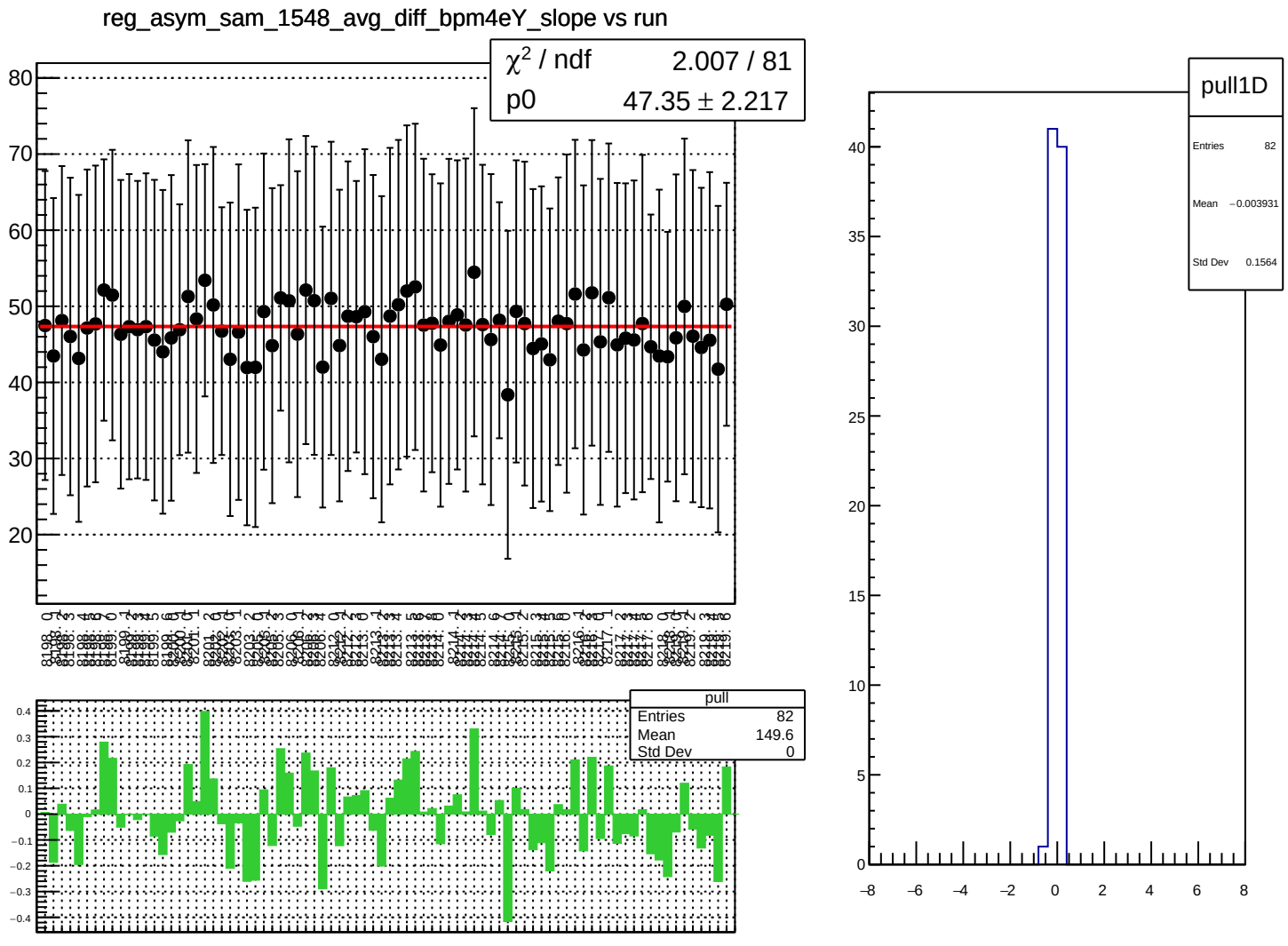

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 6.62 / 81
p0 1.775 ± 0.05476
pull
Entries 82
Mean −230
Std Dev 0
pull1D
Entries 82
Mean 0.01352
Std Dev 0.2838

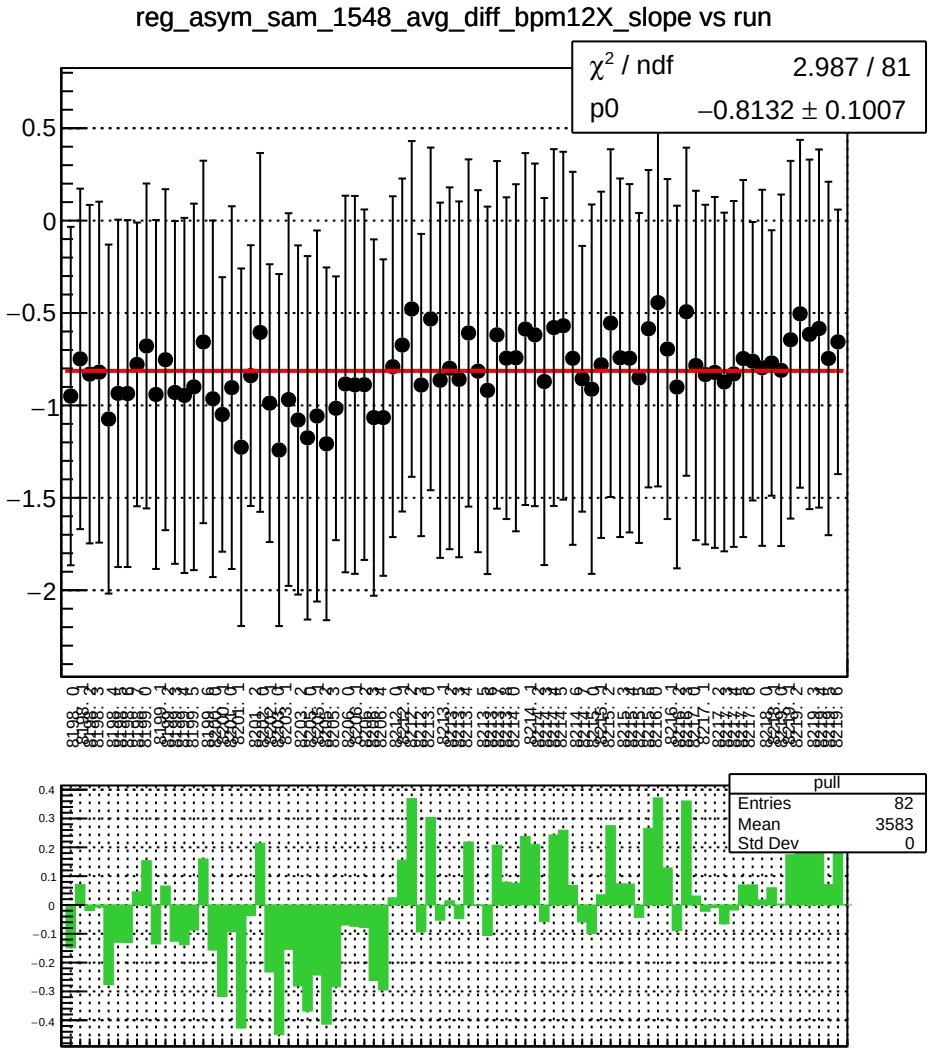

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 2.446 / 81
p0 −10.68 ± 1.243
pull
Entries 82
Mean −606.1
Std Dev 0
pull1D
Entries 82
Mean −0.003466
Std Dev 0.1727

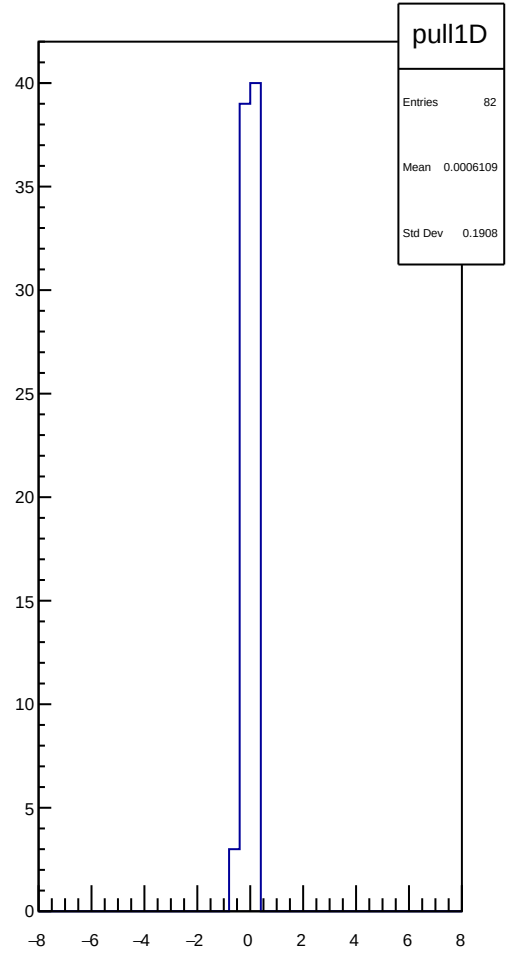

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.424 / 81
p0 42.39 ± 2.061
pull
Entries 82
Mean −28.65
Std Dev 34.28

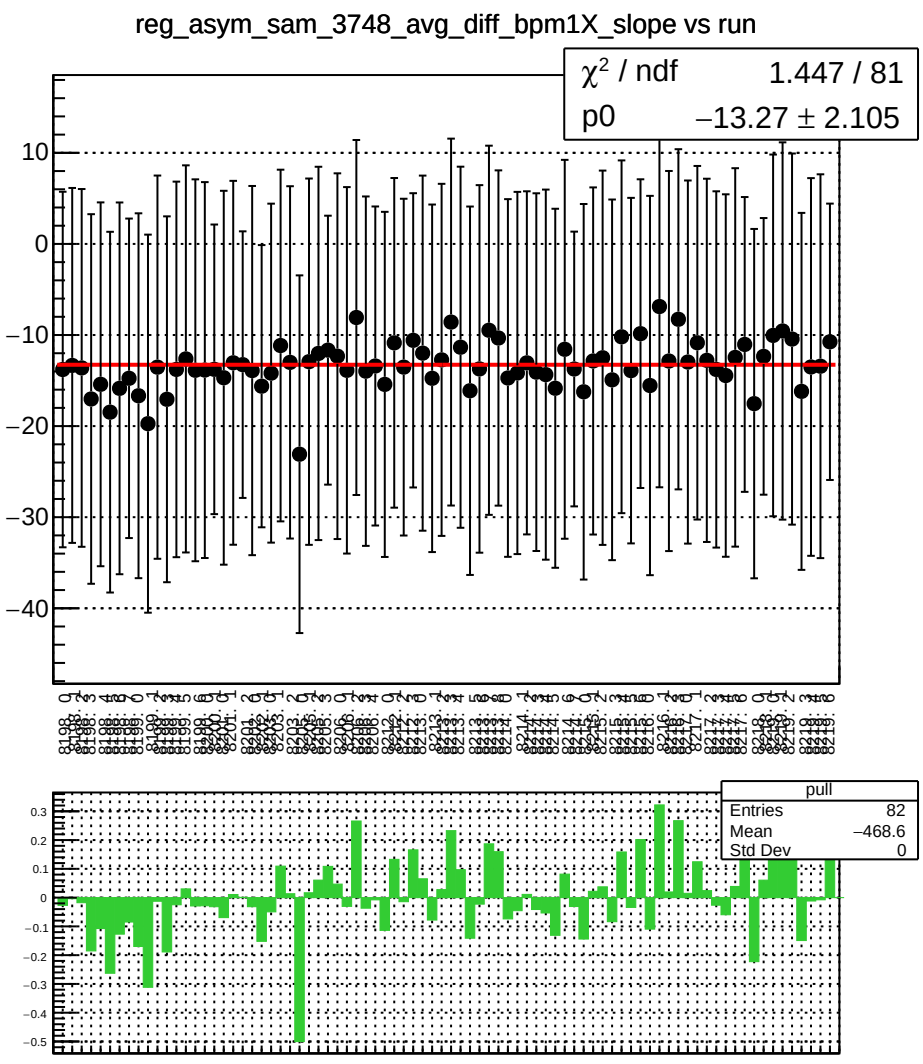

pull1D
Entries 82
Mean 0.003581
Std Dev 0.1719

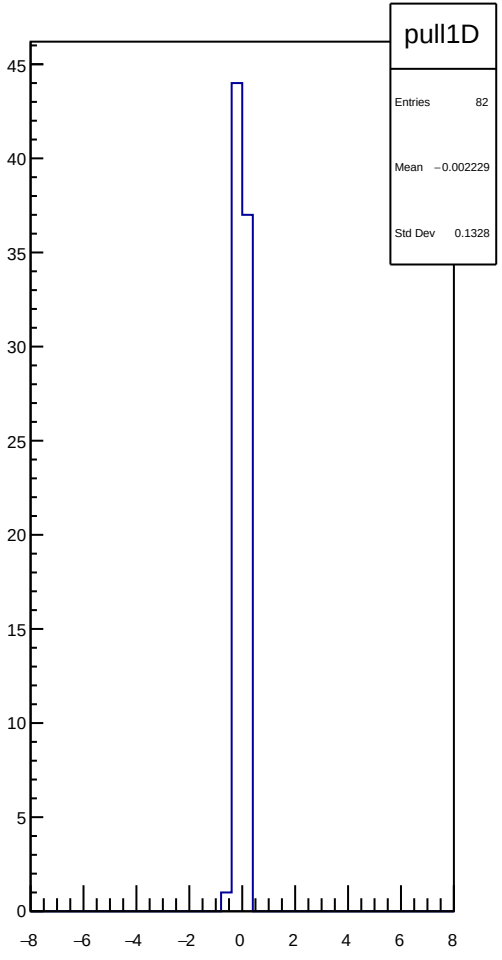

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.882 / 81
p0 −47.73 ± 1.246
pull
Entries 82
Mean −568.1
Std Dev 0
pull1D
Entries 82
Mean 0.001461
Std Dev 0.1515

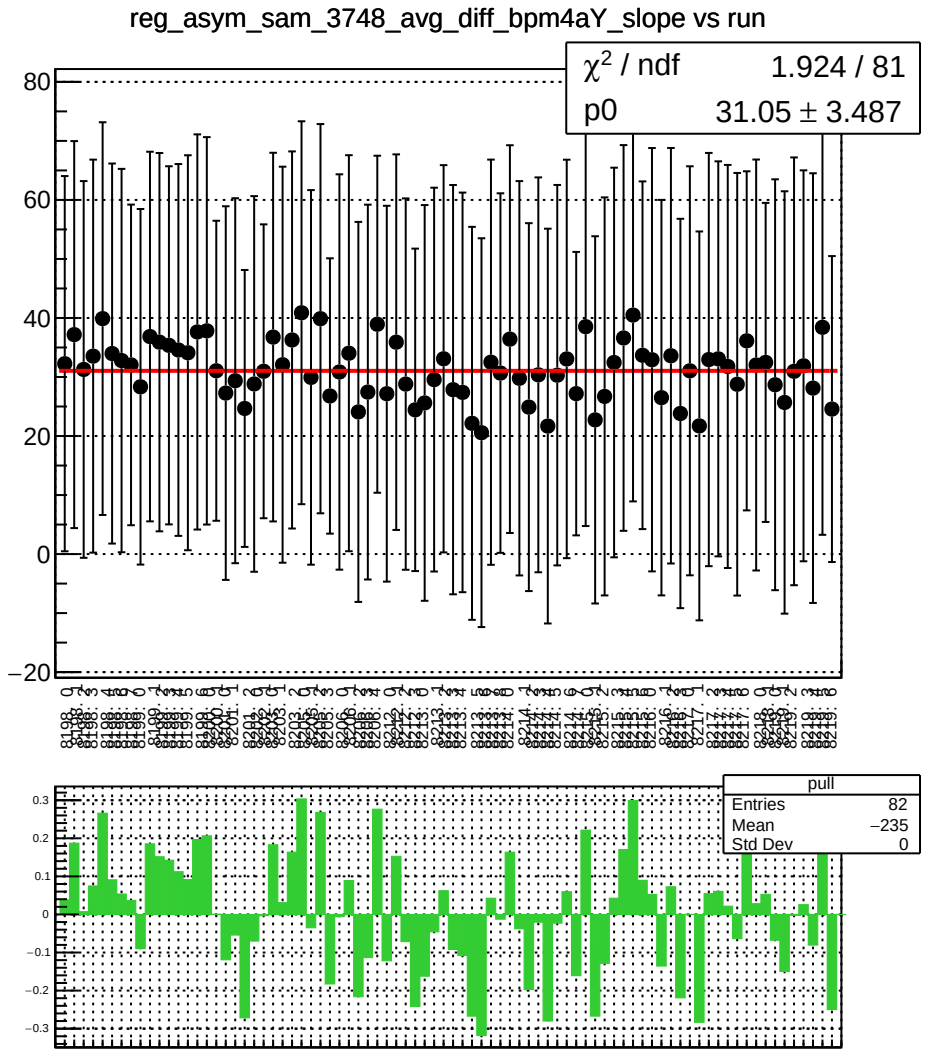

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.007 / 81
p0 47.35 ± 2.217
pull
Entries 82
Mean 149.6
Std Dev 0
pull1D
Entries 82
Mean −0.003931
Std Dev 0.1564

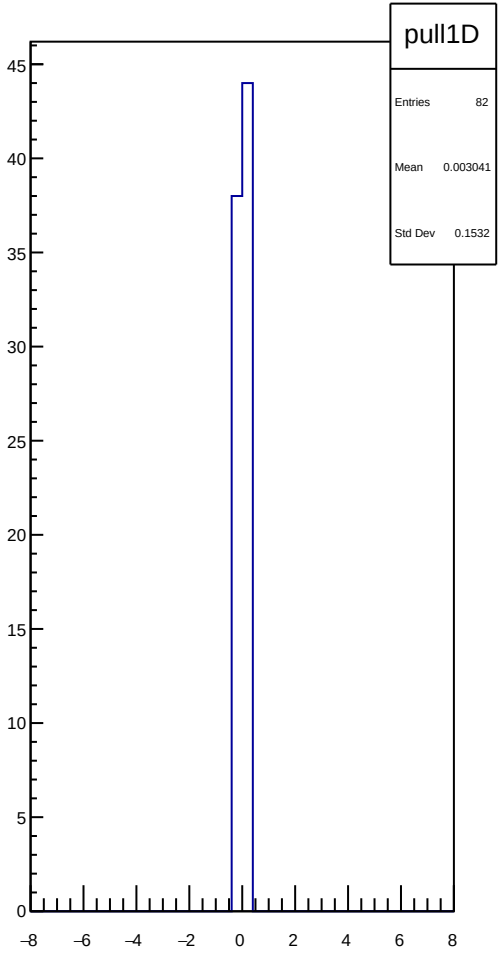

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 2.987 / 81
p0 −0.8132 ± 0.1007
pull
Entries 82
Mean 3583
Std Dev 0

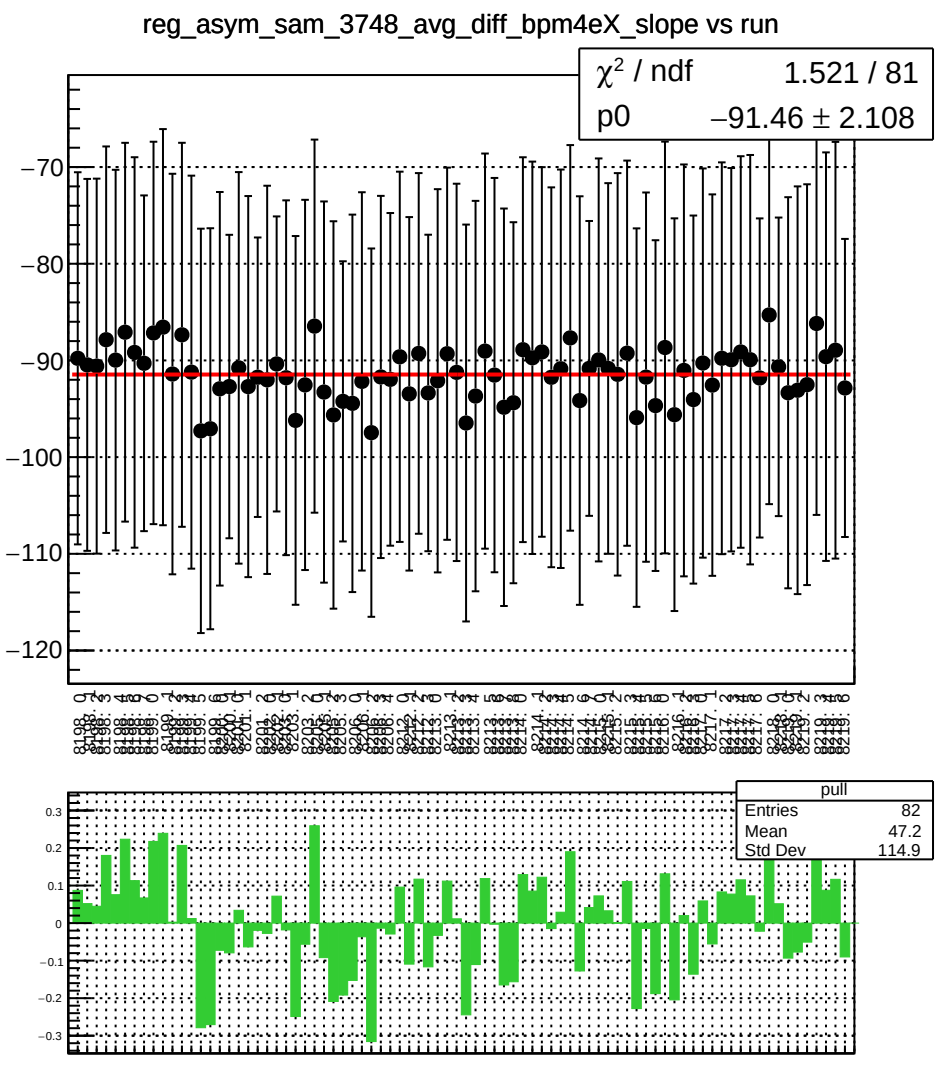

pull1D
Entries 82
Mean 0.0006109
Std Dev 0.1908

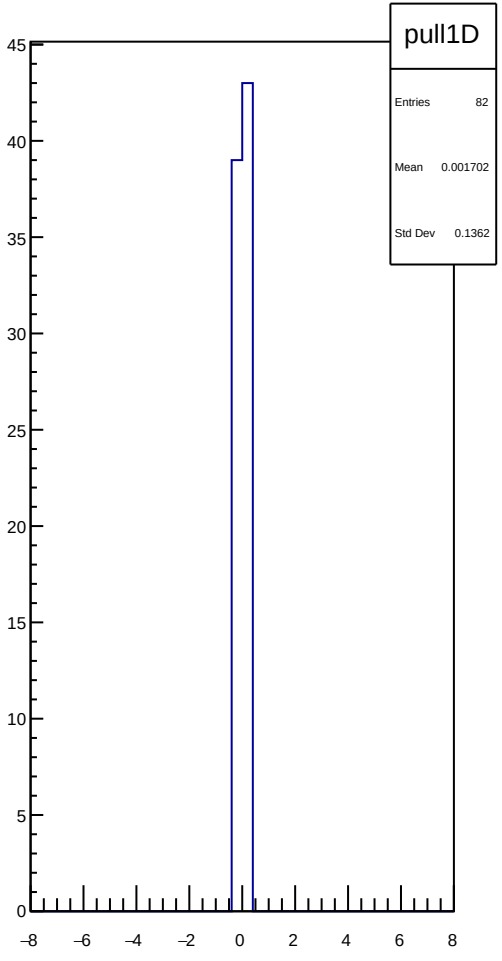

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 1.447 / 81
p0 −13.27 ± 2.105
pull
Entries 82
Mean −468.6
Std Dev 0

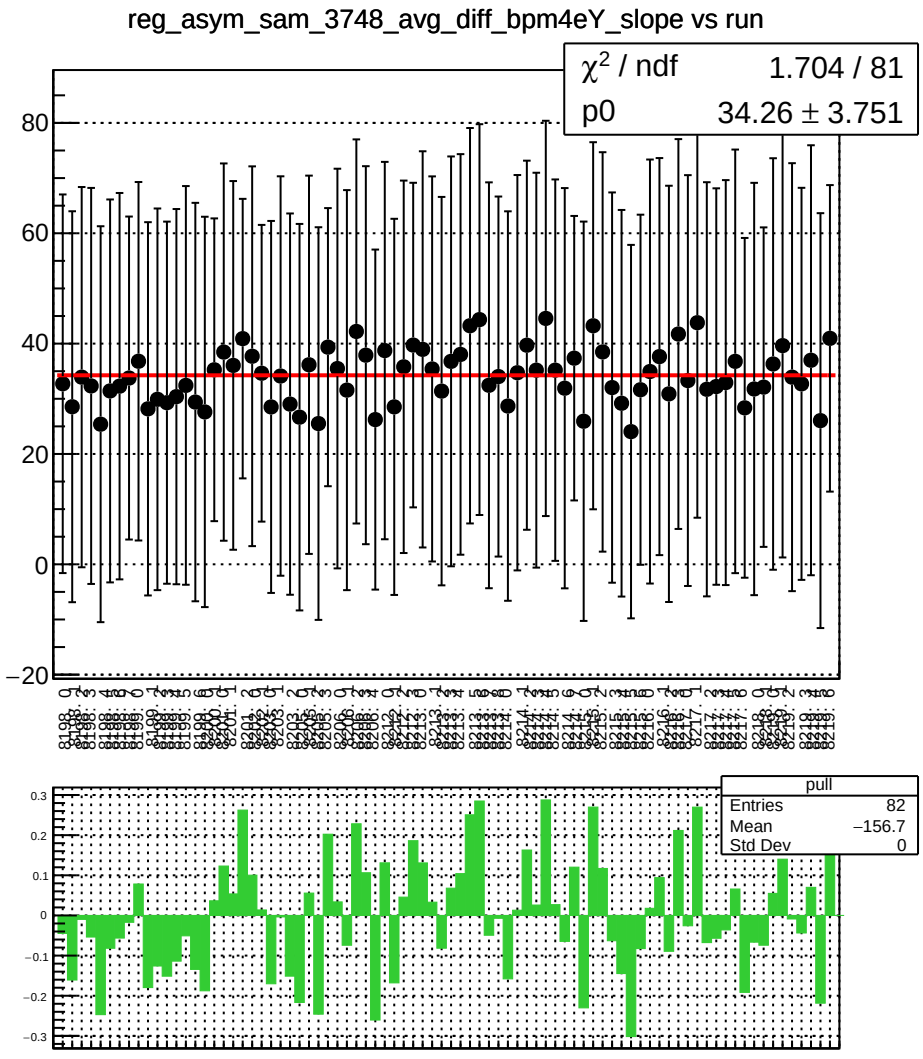

pull1D
Entries 82
Mean −0.002229
Std Dev 0.1328

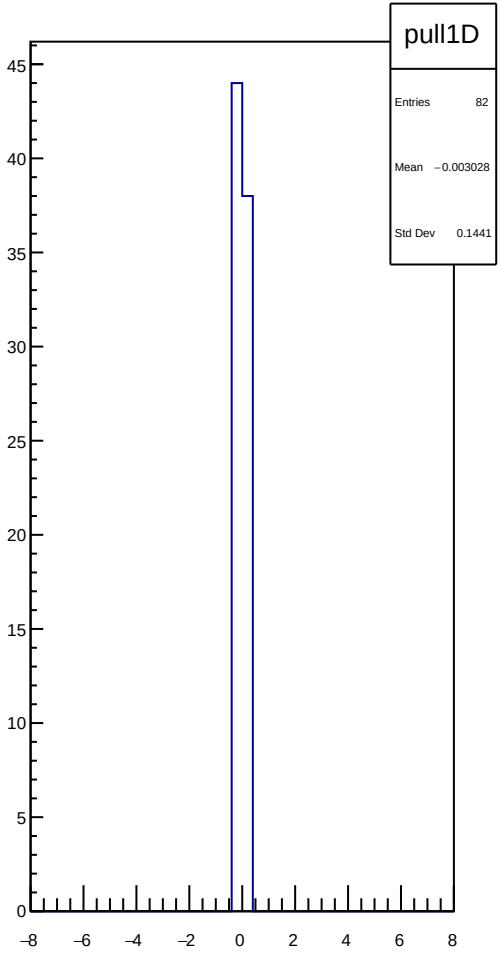

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.924 / 81
p0 31.05 ± 3.487
pull
Entries 82
Mean −235
Std Dev 0

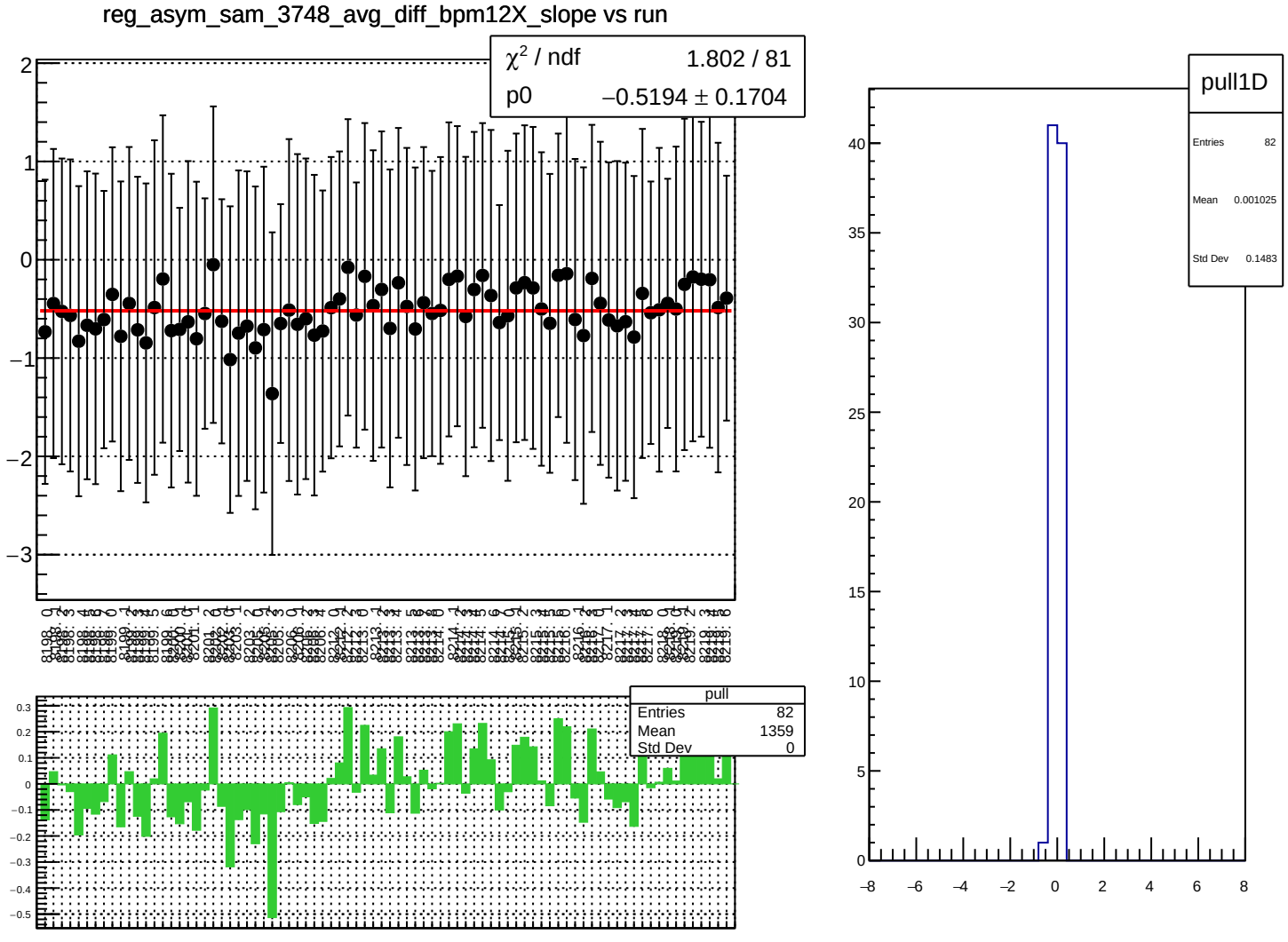

pull1D
Entries 82
Mean 0.003041
Std Dev 0.1532

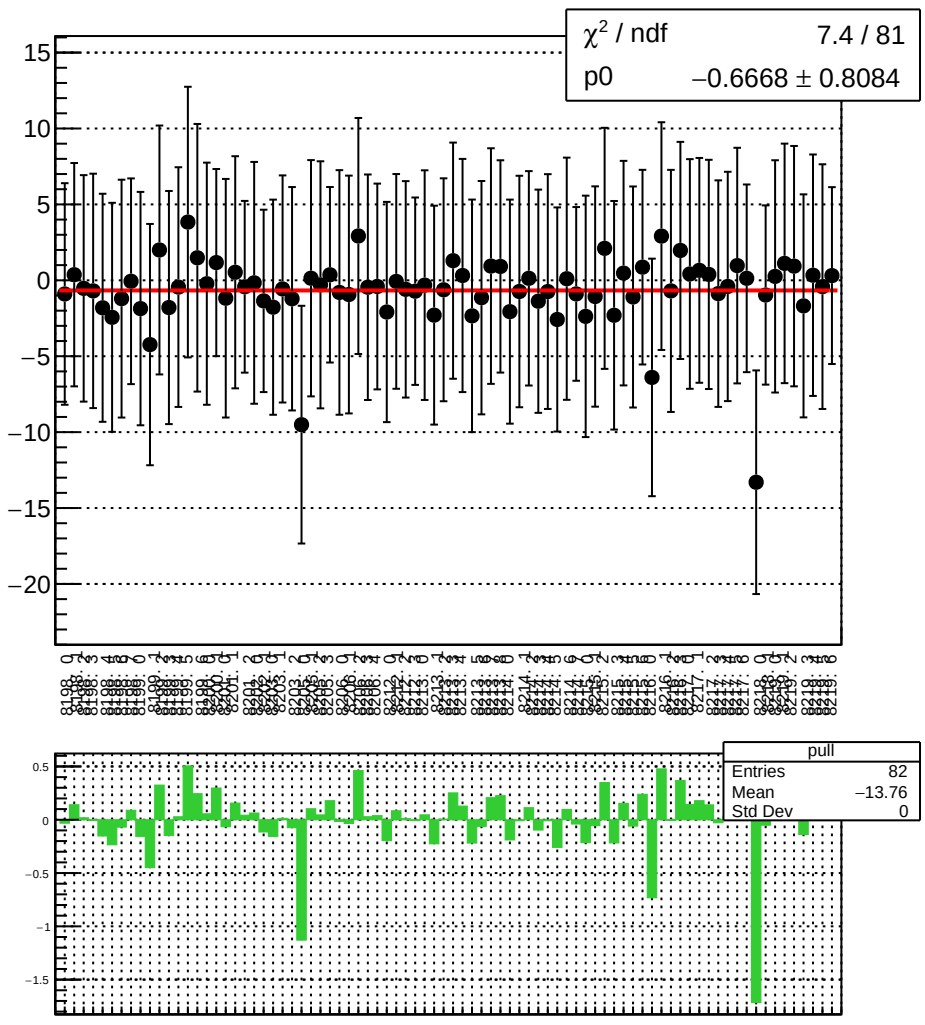

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.521 / 81
p0 −91.46 ± 2.108
pull
Entries 82
Mean 47.2
Std Dev 114.9

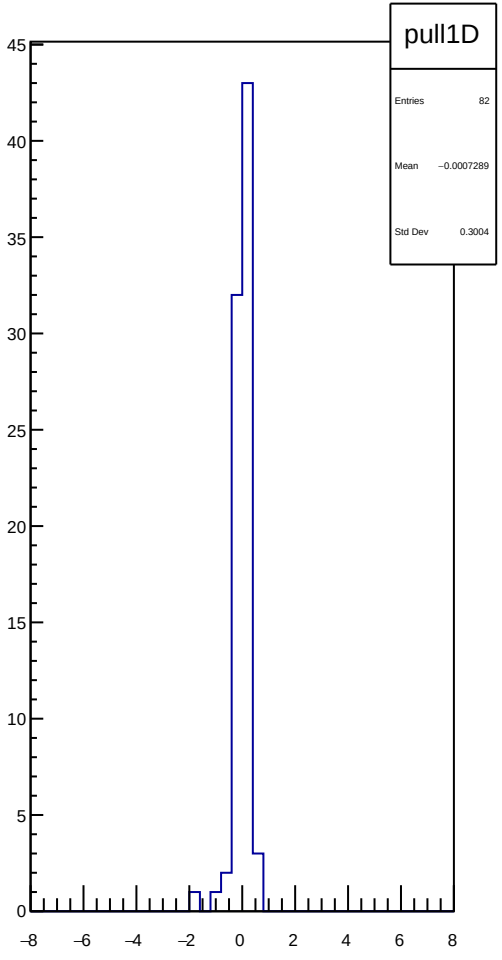

pull1D
Entries 82
Mean 0.001702
Std Dev 0.1362

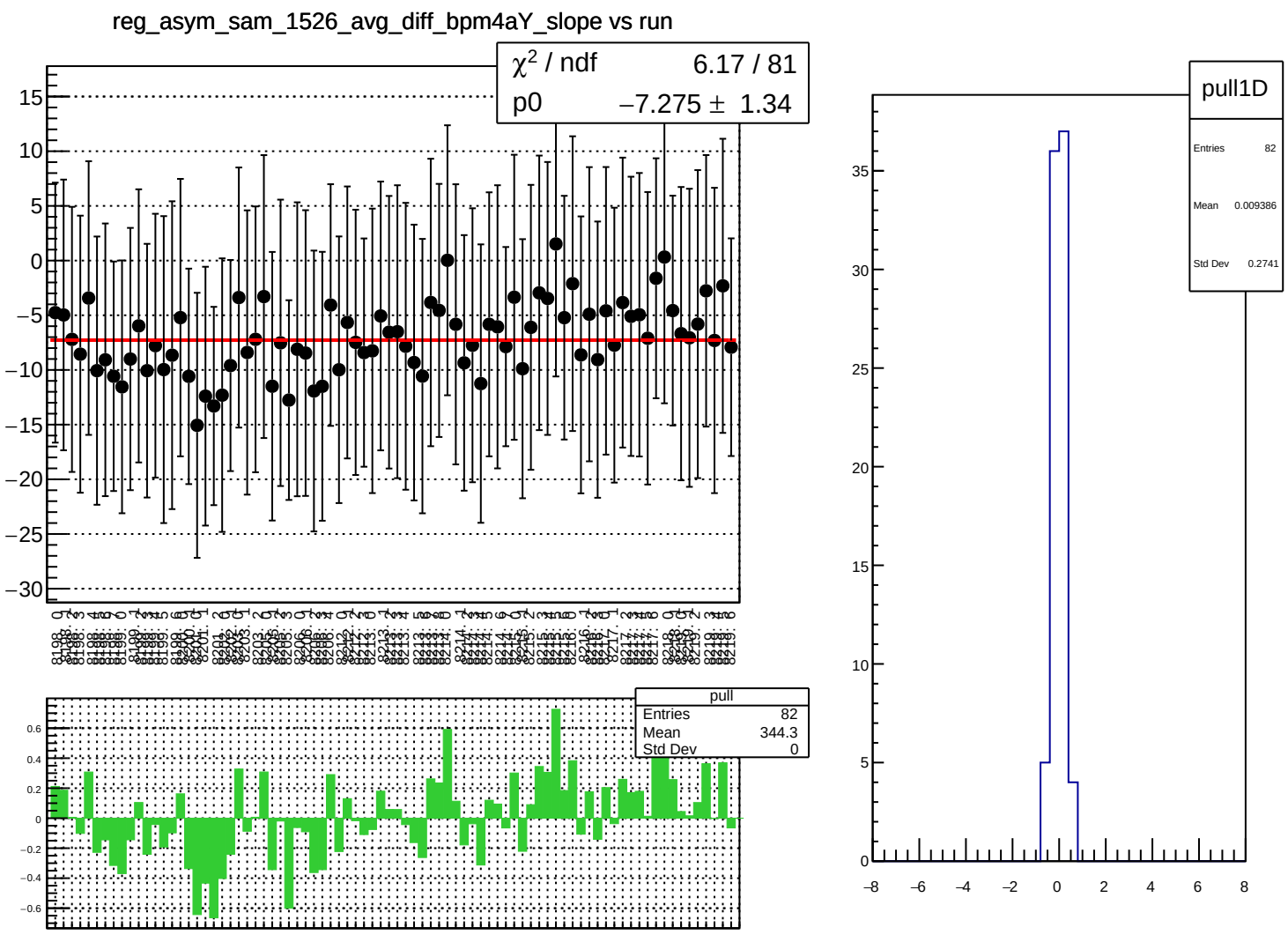

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.704 / 81
p0 34.26 ± 3.751
pull
Entries 82
Mean −156.7
Std Dev 0

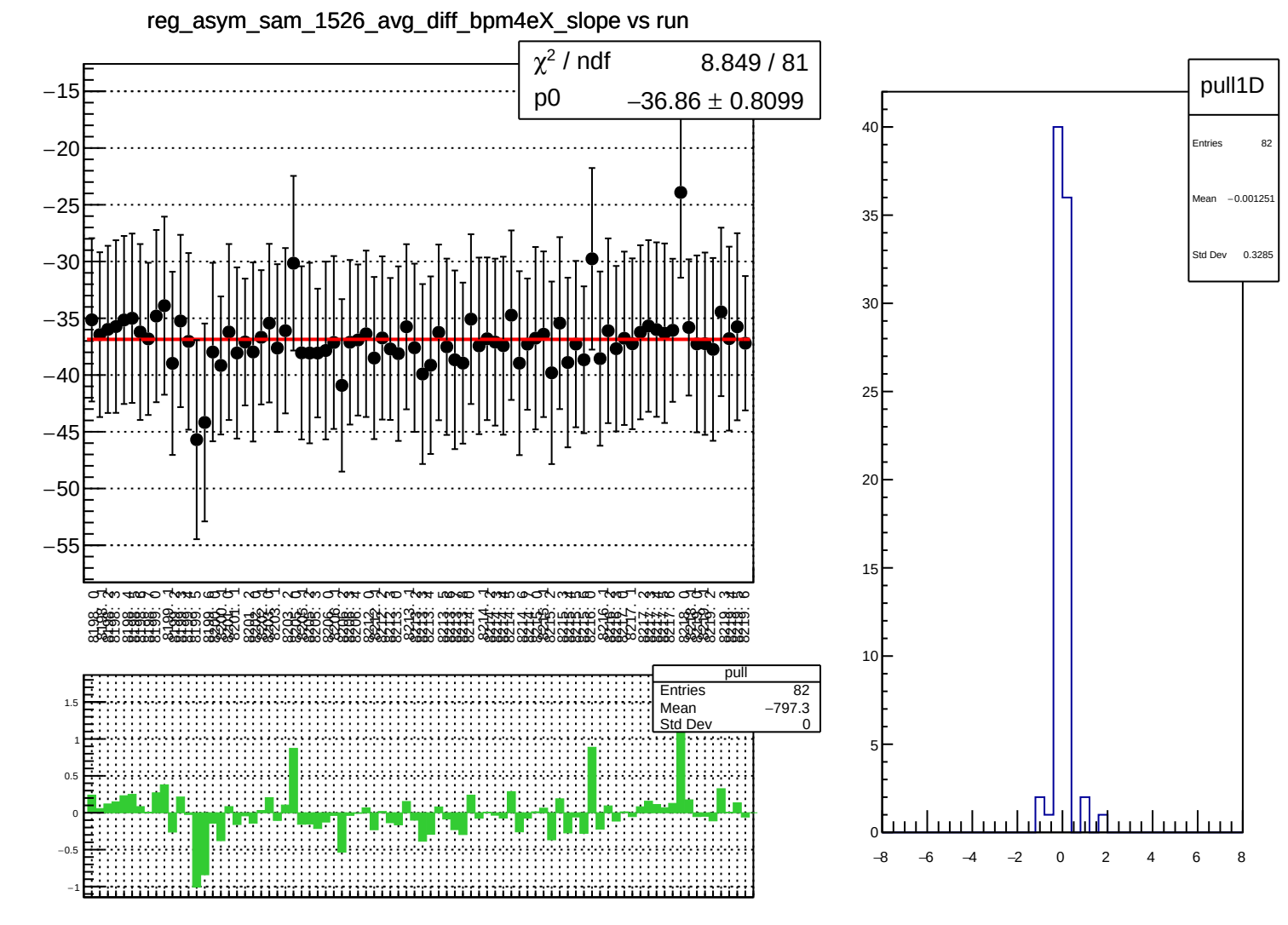

pull1D
Entries 82
Mean −0.003028
Std Dev 0.1441

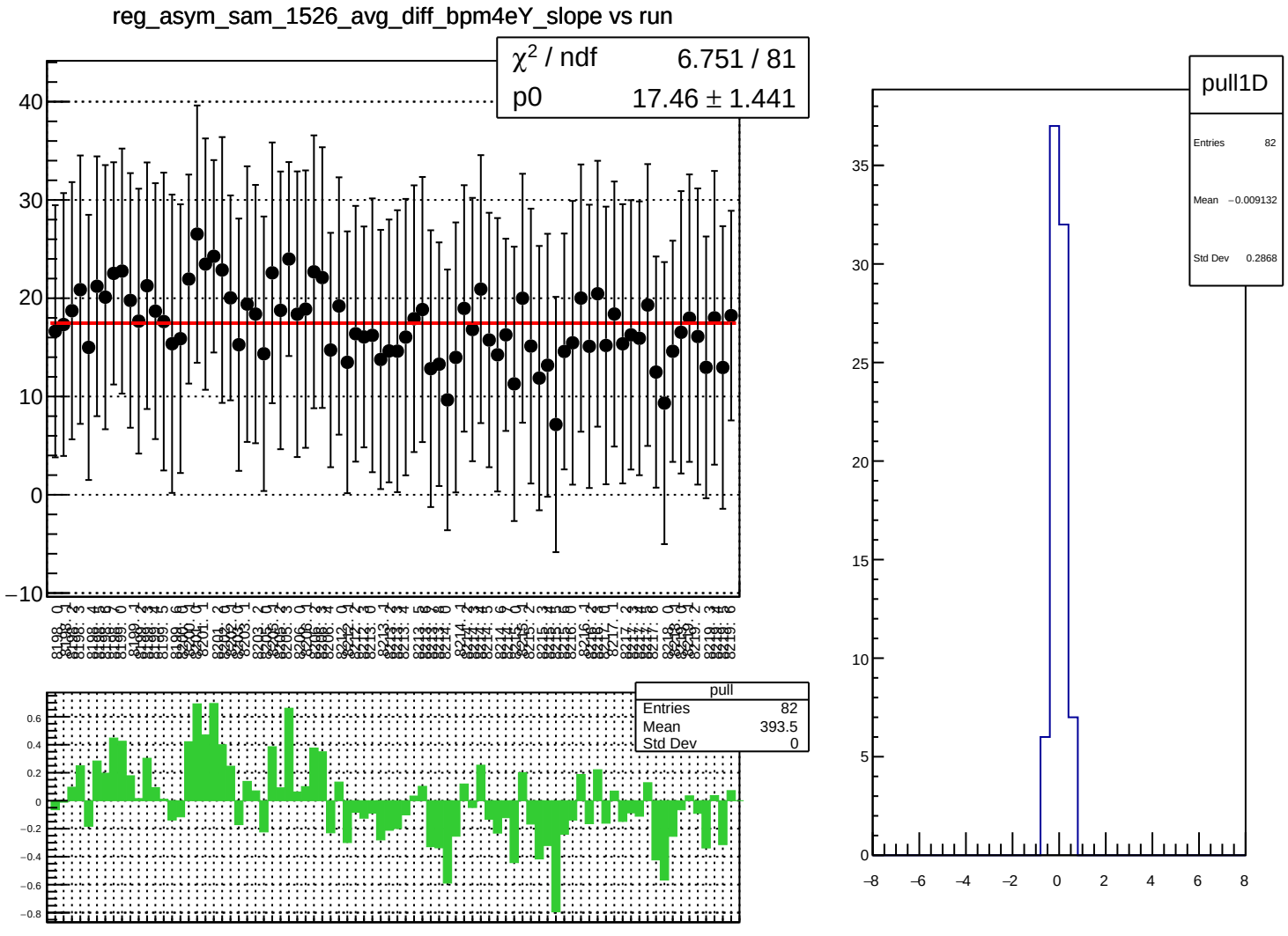

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 1.802 / 81
p0 −0.5194 ± 0.1704
pull
Entries 82
Mean 1359
Std Dev 0
pull1D
Entries 82
Mean 0.001025
Std Dev 0.1483

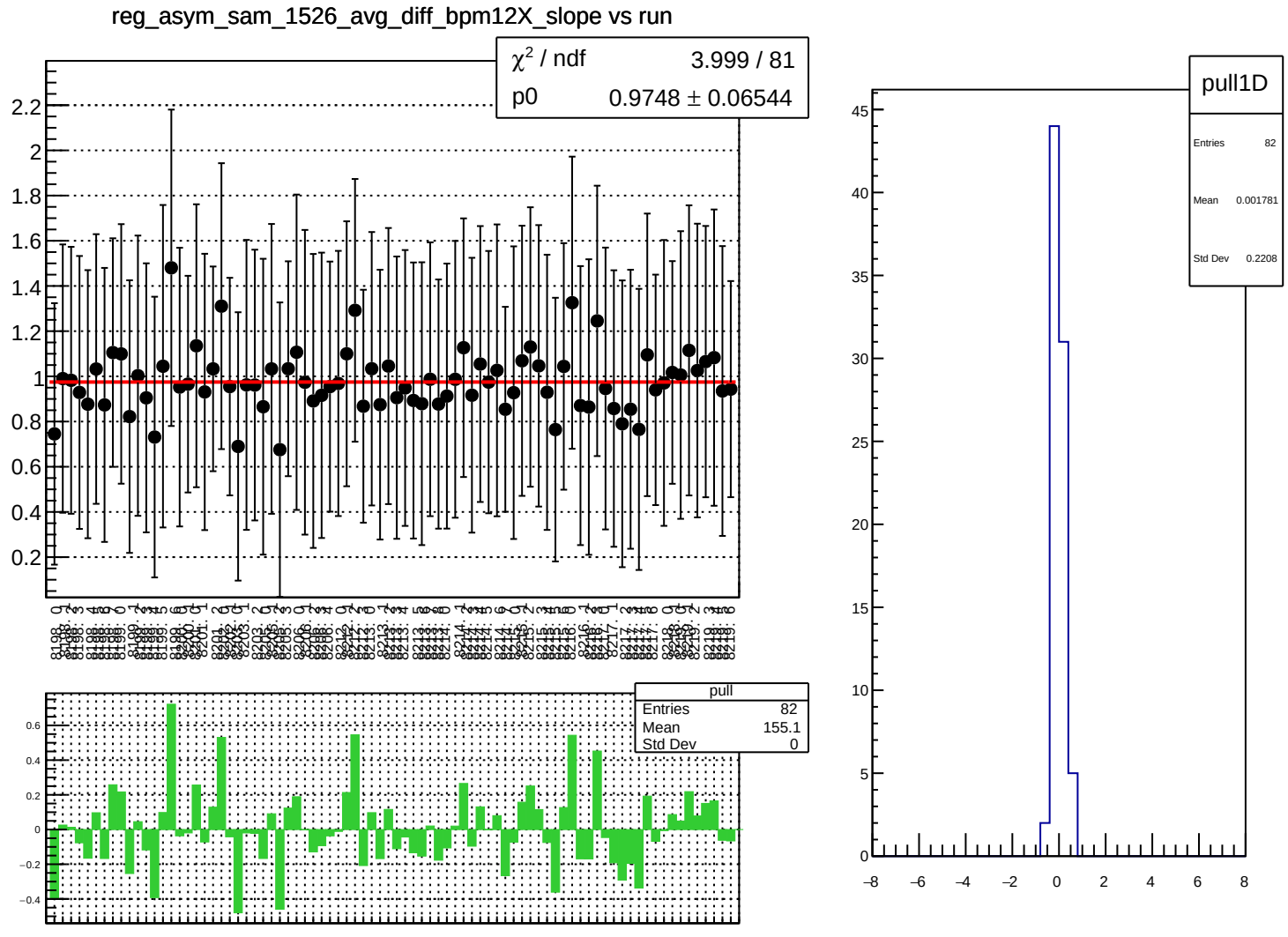

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 7.4 / 81
p0 −0.6668 ± 0.8084
pull
Entries 82
Mean −13.76
Std Dev 0

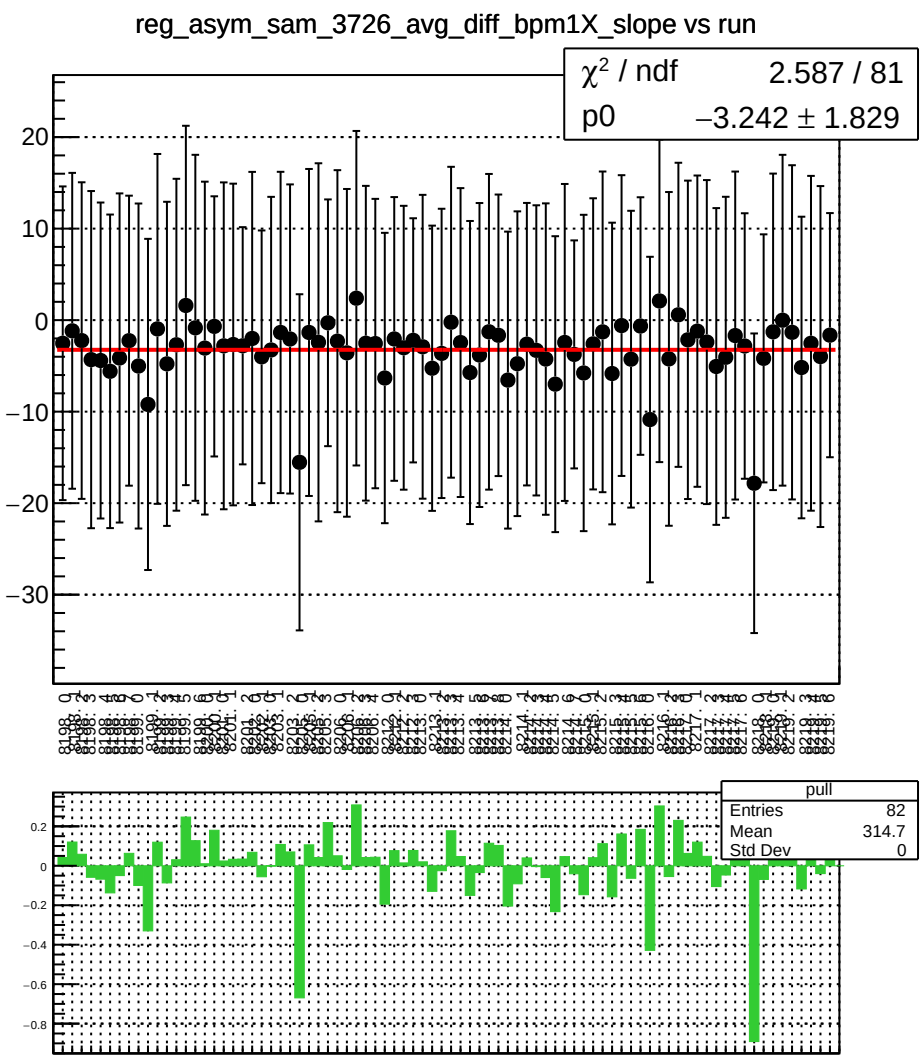

pull1D
Entries 82
Mean −0.0007289
Std Dev 0.3004

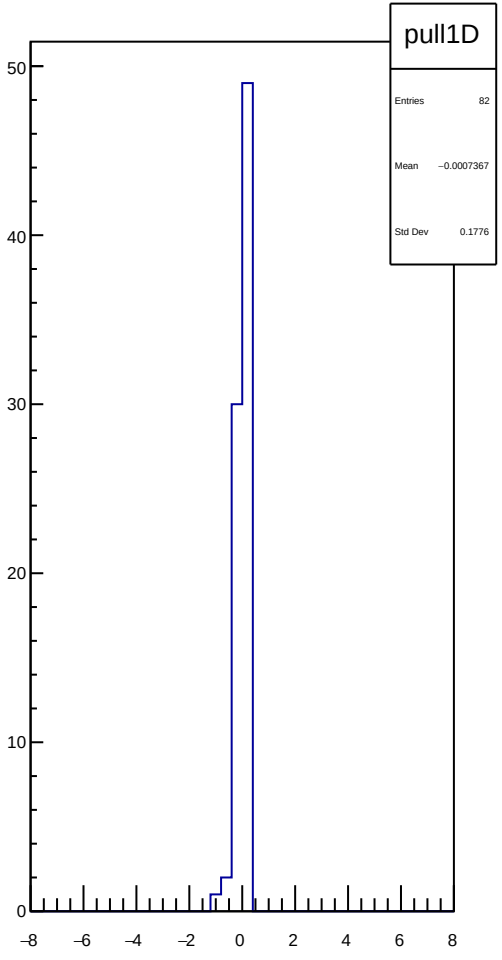

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.17 / 81
p0 −7.275 ± 1.34
pull
Entries 82
Mean 344.3
Std Dev 0
pull1D
Entries 82
Mean 0.009386
Std Dev 0.2741

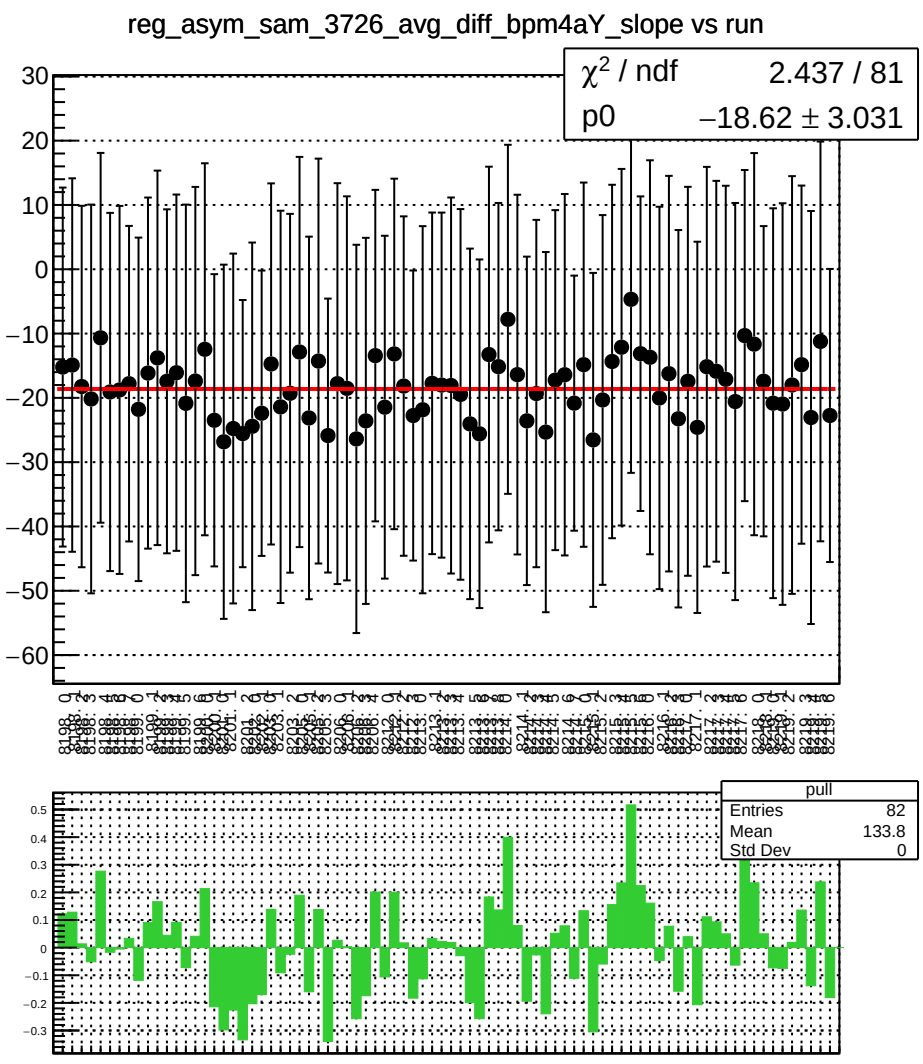

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.849 / 81
p0 −36.86 ± 0.8099
pull
Entries 82
Mean −797.3
Std Dev 0
pull1D
Entries 82
Mean −0.001251
Std Dev 0.3285

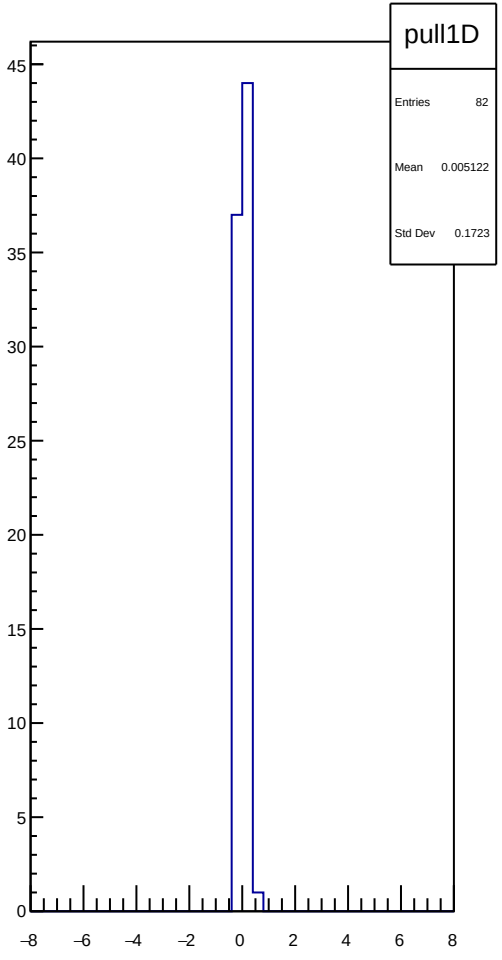

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.751 / 81
p0 17.46 ± 1.441
pull
Entries 82
Mean 393.5
Std Dev 0
pull1D
Entries 82
Mean −0.009132
Std Dev 0.2868

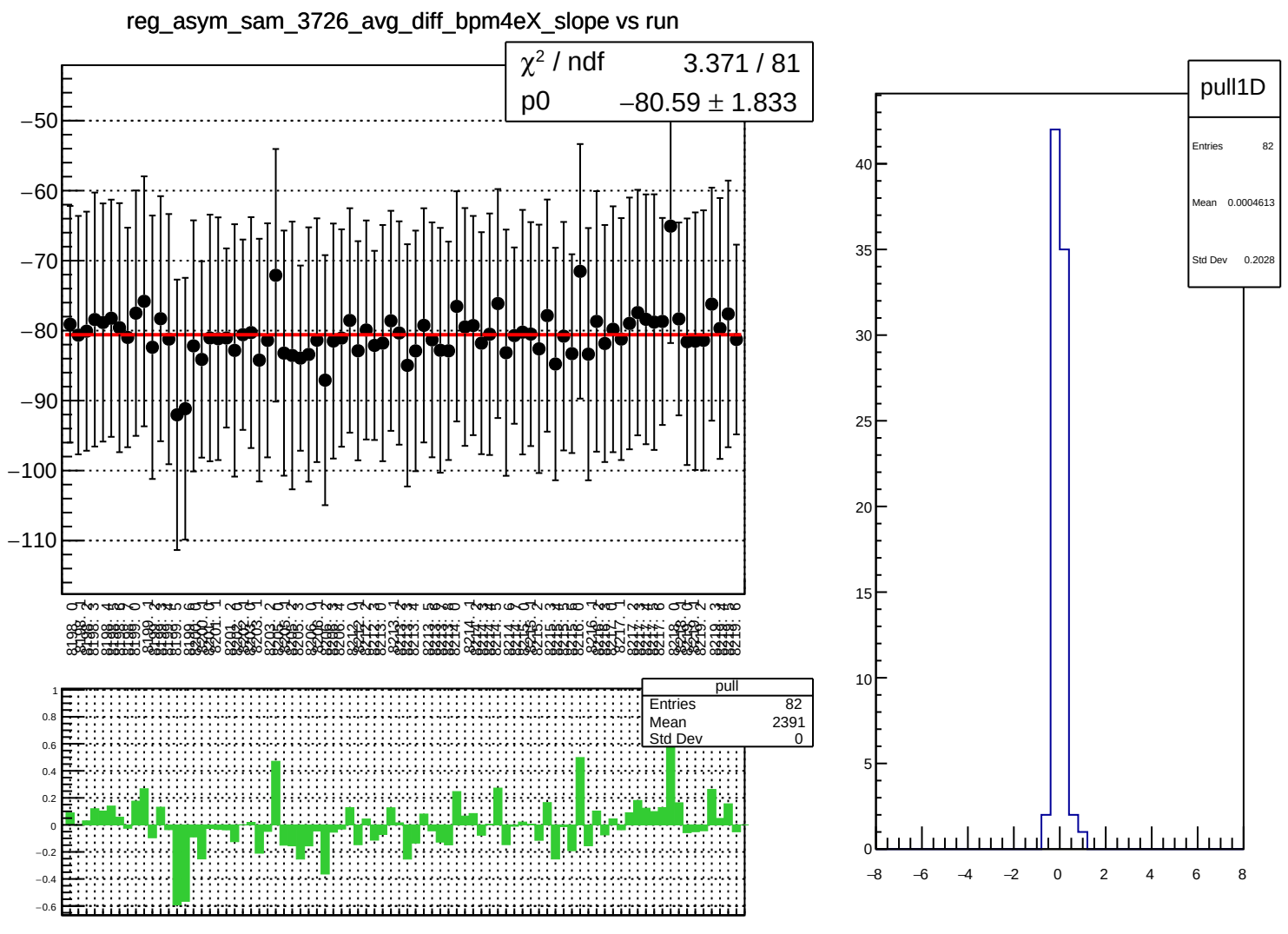

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 3.999 / 81
p0 0.9748 ± 0.06544
pull
Entries 82
Mean 155.1
Std Dev 0
pull1D
Entries 82
Mean 0.001781
Std Dev 0.2208

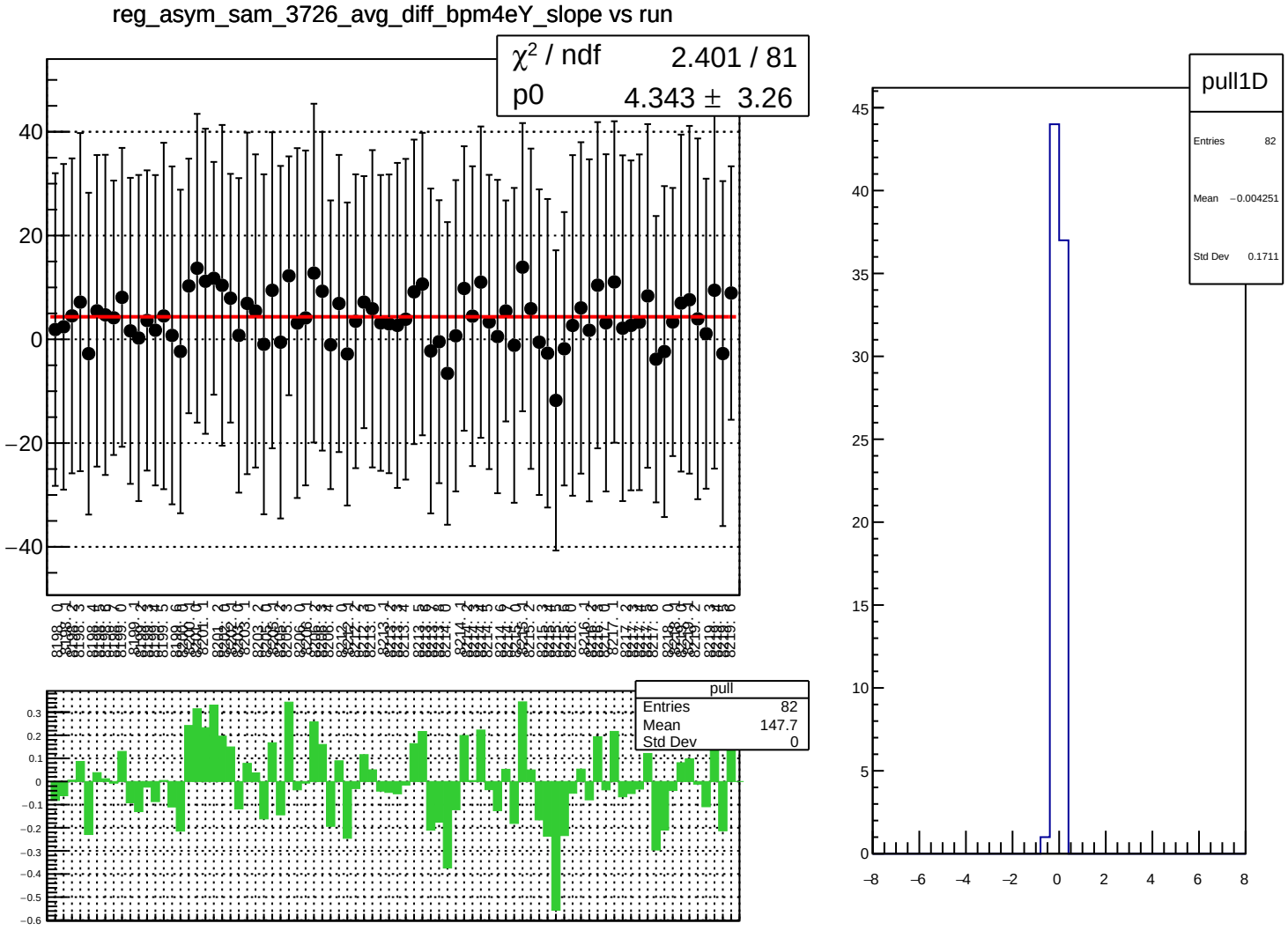

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 2.587 / 81
p0 −3.242 ± 1.829
pull
Entries 82
Mean 314.7
Std Dev 0

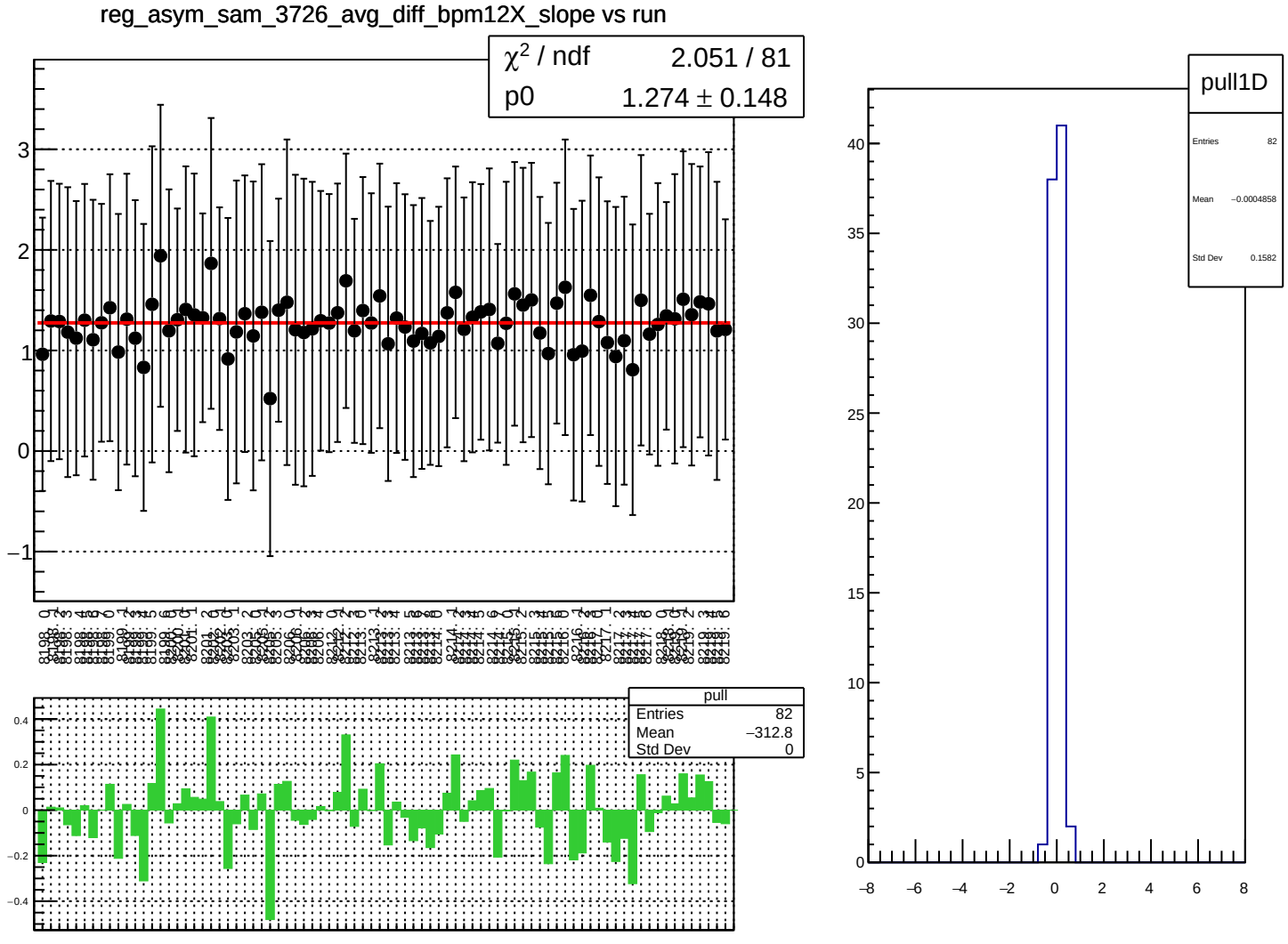

pull1D
Entries 82
Mean −0.0007367
Std Dev 0.1776

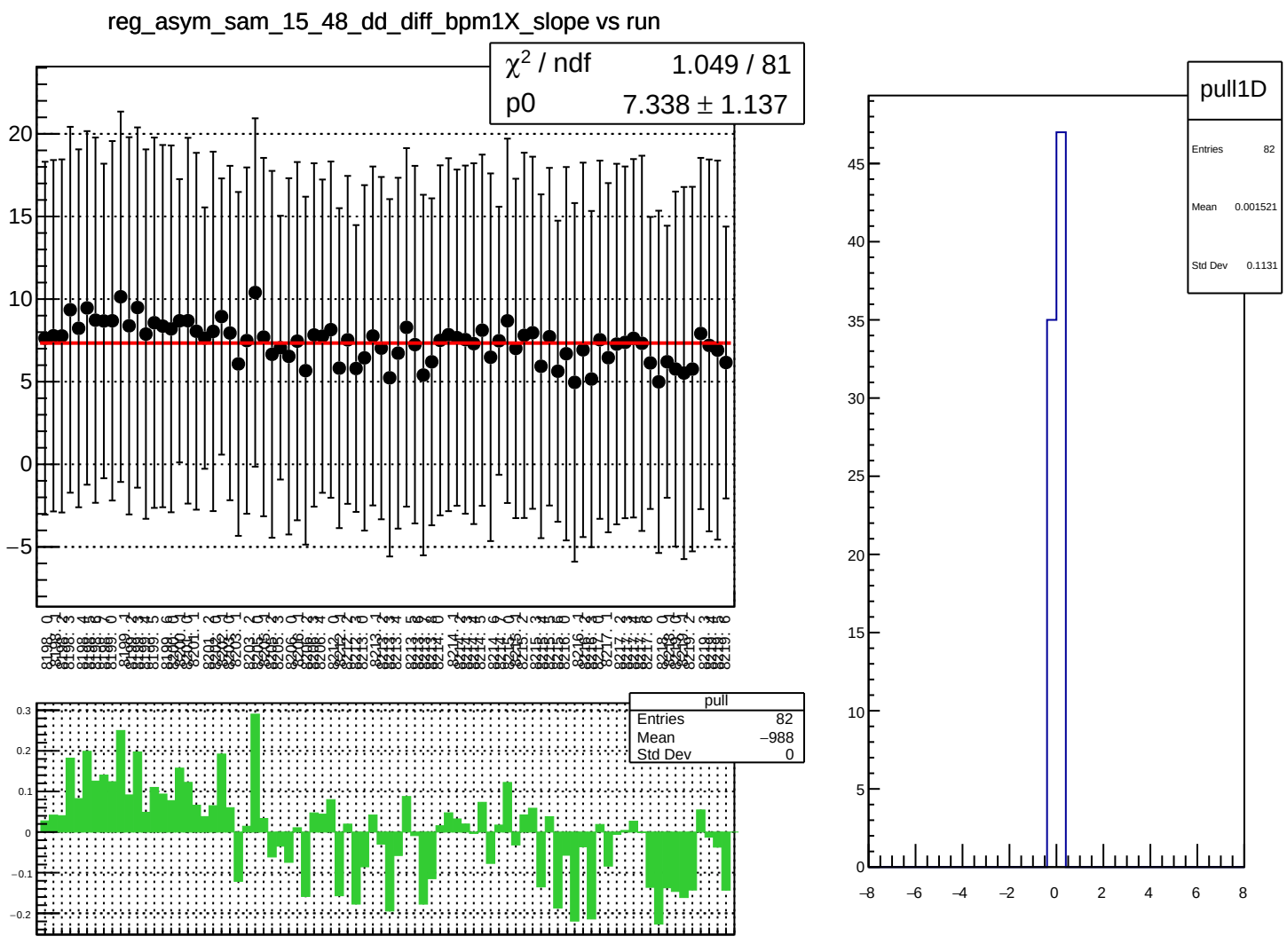

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.437 / 81
p0 −18.62 ± 3.031
pull
Entries 82
Mean 133.8
Std Dev 0

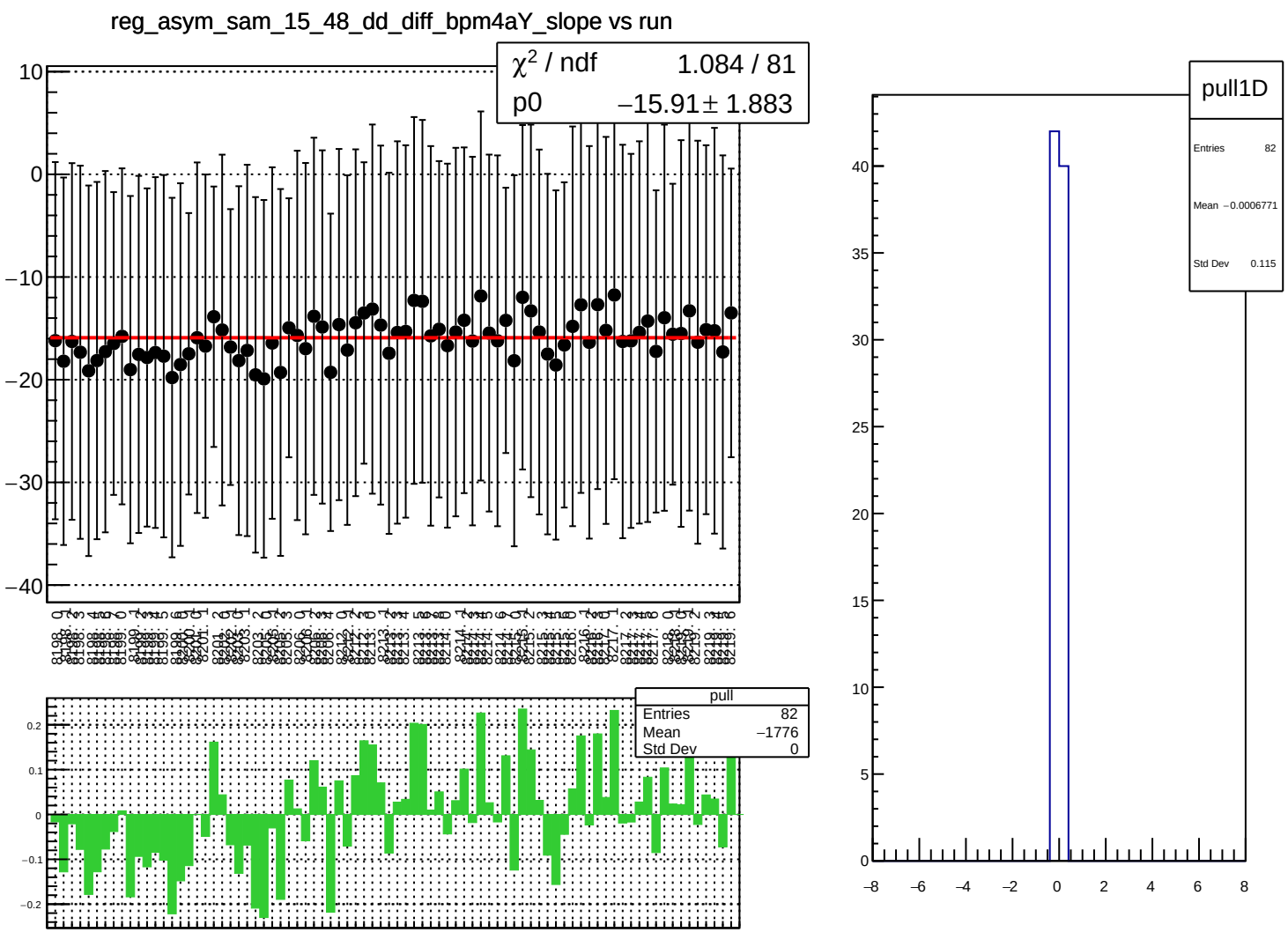

pull1D
Entries 82
Mean 0.005122
Std Dev 0.1723

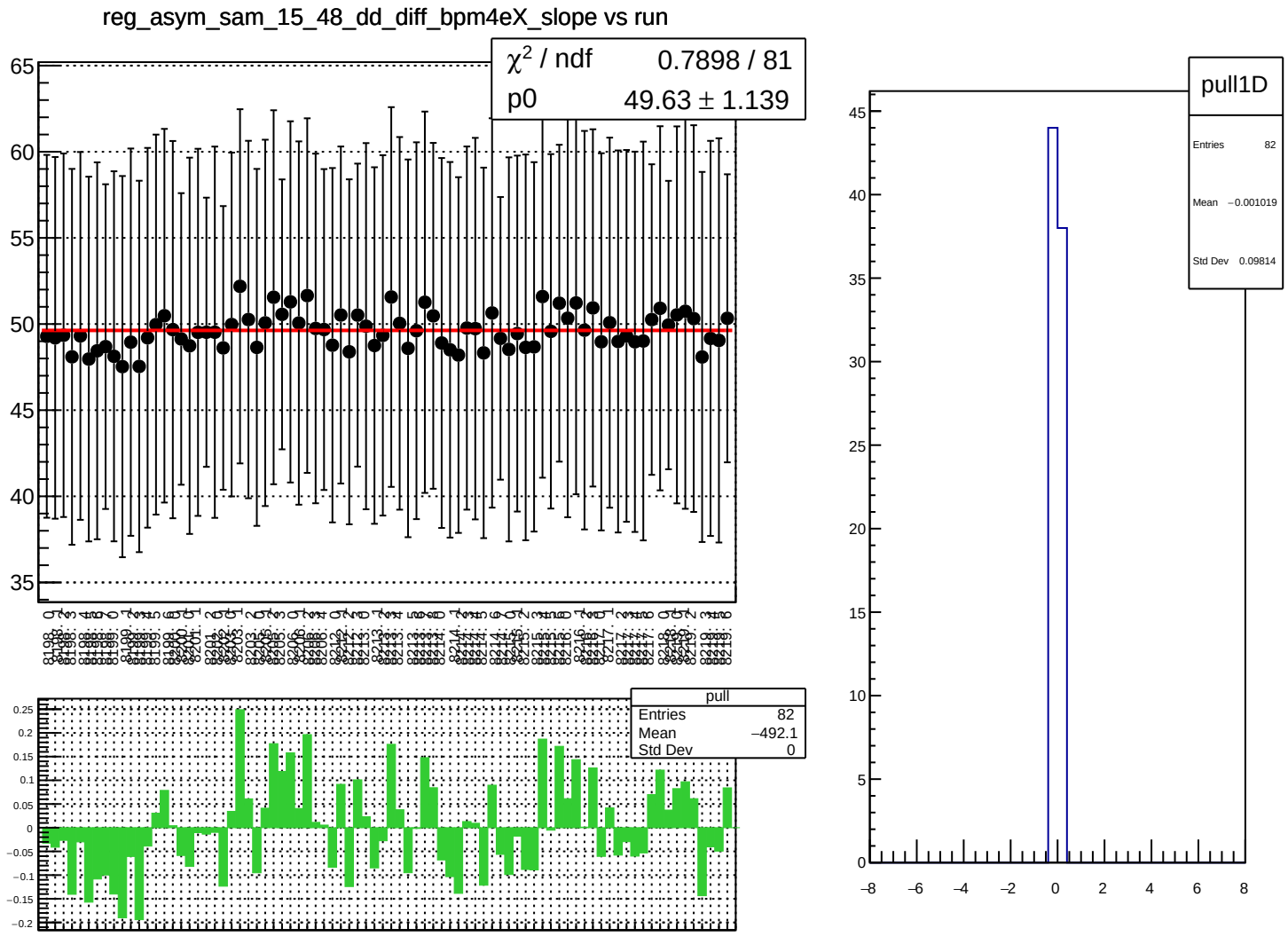

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.371 / 81
p0 −80.59 ± 1.833
pull
Entries 82
Mean 2391
Std Dev 0
pull1D
Entries 82
Mean 0.0004613
Std Dev 0.2028

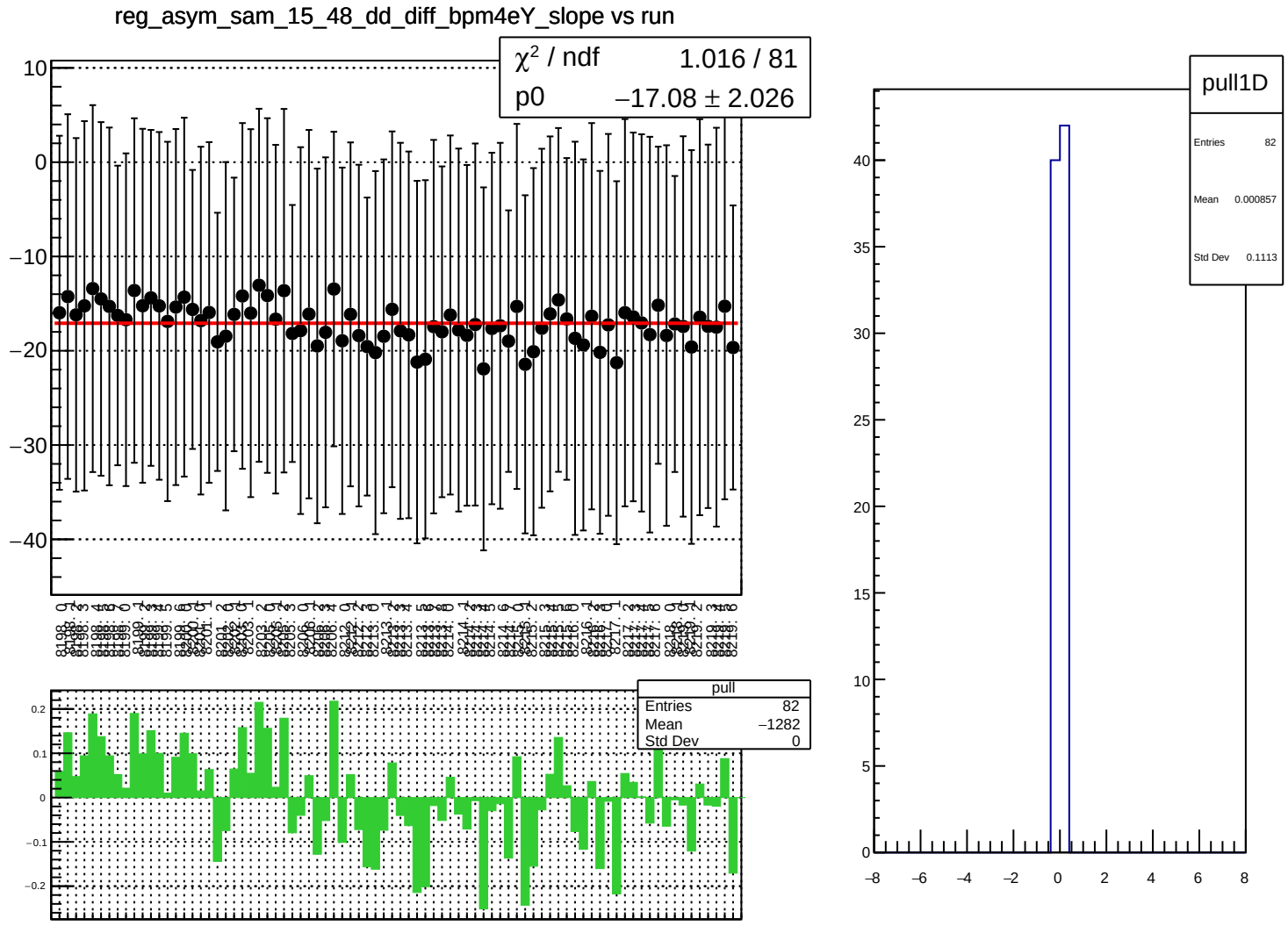

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.401 / 81
p0 4.343 ± 3.26
pull
Entries 82
Mean 147.7
Std Dev 0
pull1D
Entries 82
Mean −0.004251
Std Dev 0.1711

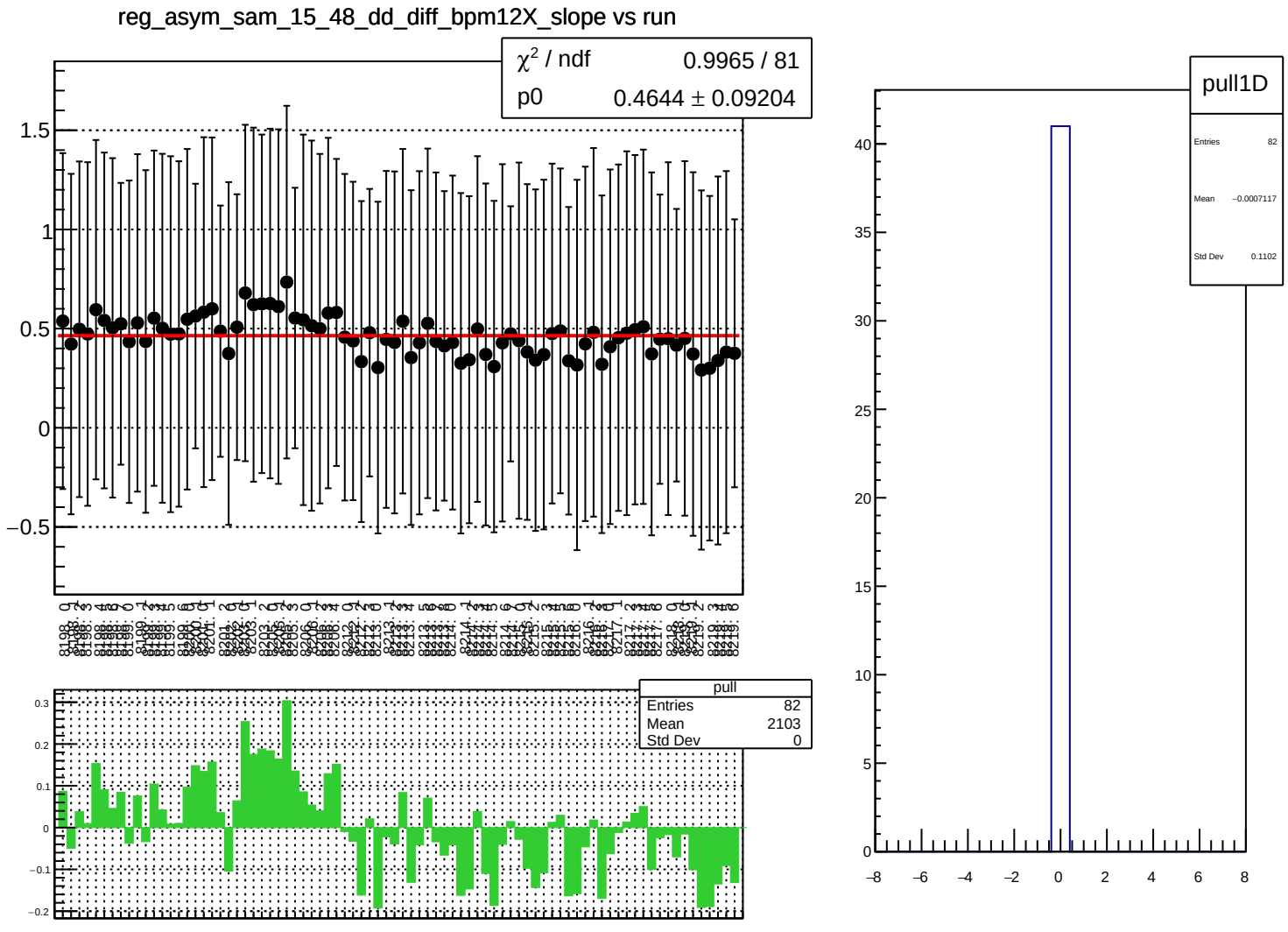

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.051 / 81
p0 1.274 ± 0.148
pull
Entries 82
Mean −312.8
Std Dev 0
pull1D
Entries 82
Mean −0.0004858
Std Dev 0.1582

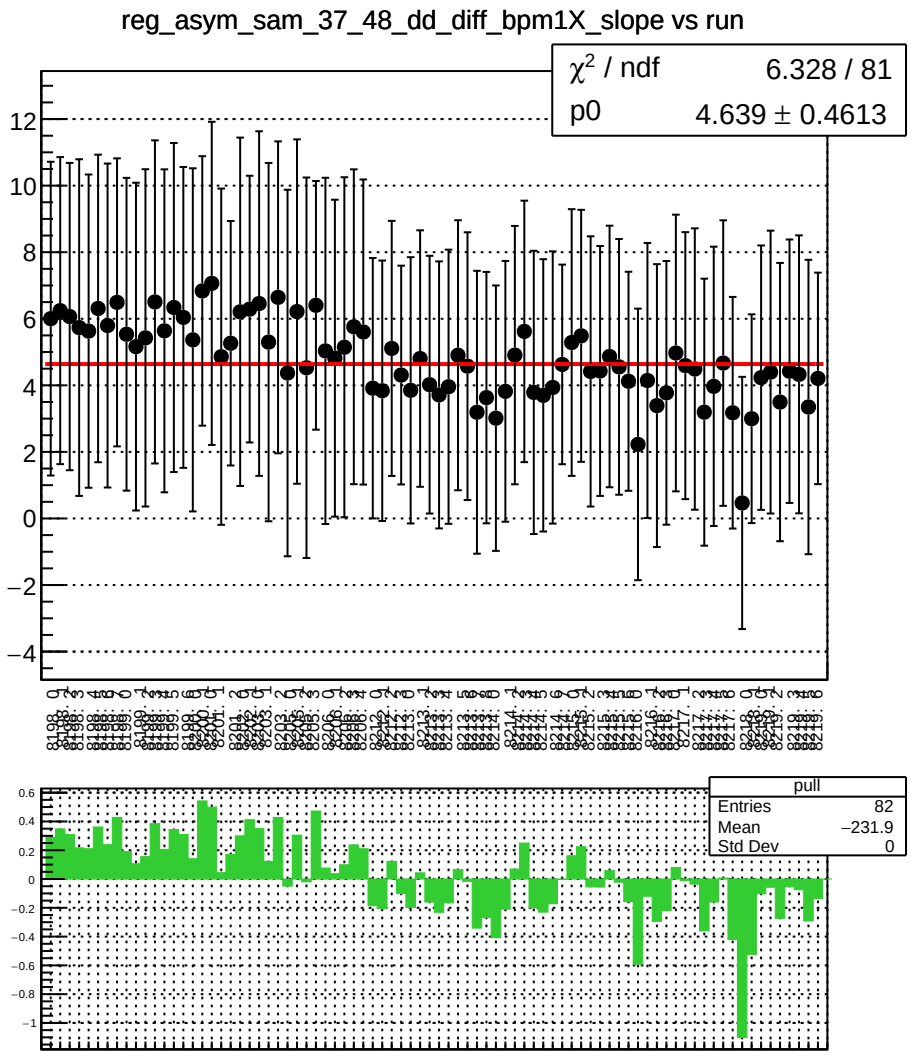

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.049 / 81
p0 7.338 ± 1.137
pull
Entries 82
Mean −988
Std Dev 0
pull1D
Entries 82
Mean 0.001521
Std Dev 0.1131

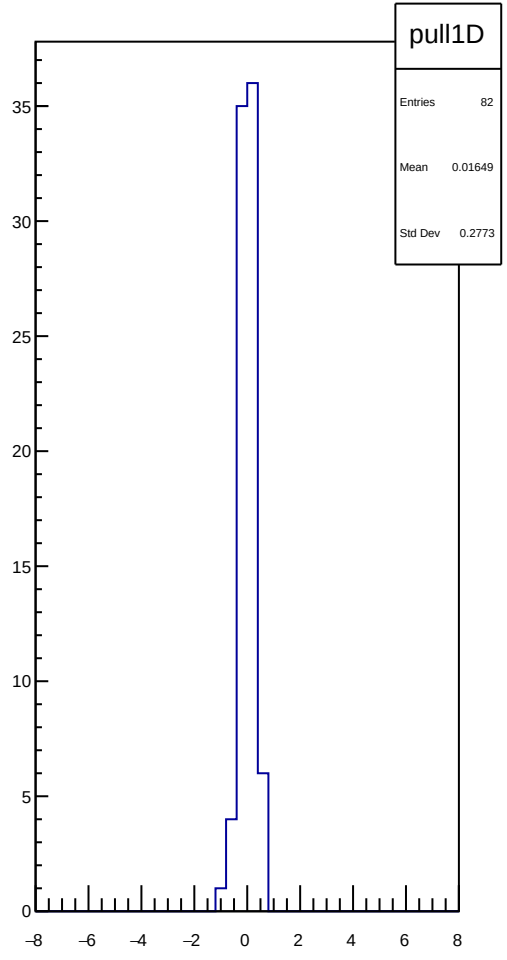

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.084 / 81
p0 −15.91± 1.883
pull
Entries 82
Mean −1776
Std Dev 0
pull1D
Entries 82
Mean −0.0006771
Std Dev 0.115

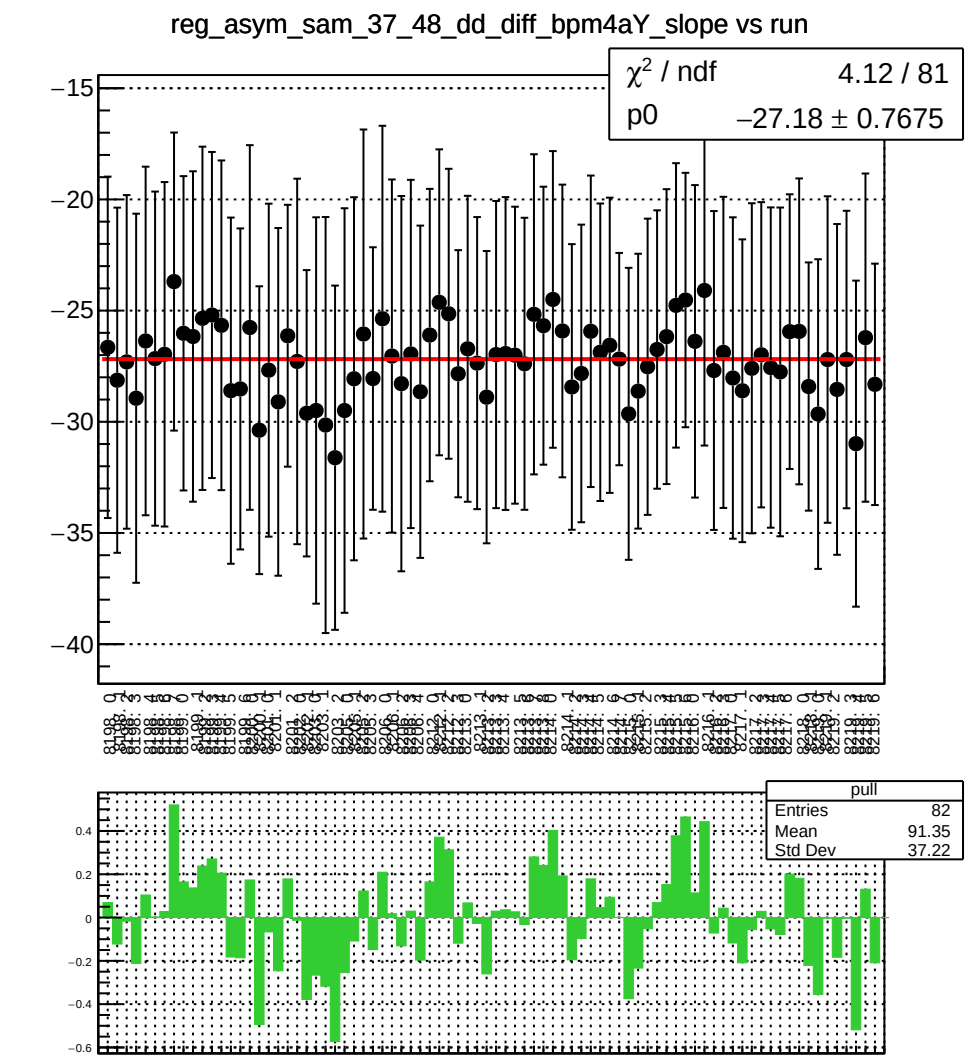

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.7898 / 81
p0 49.63 ± 1.139
pull
Entries 82
Mean −492.1
Std Dev 0
pull1D
Entries 82
Mean −0.001019
Std Dev 0.09814

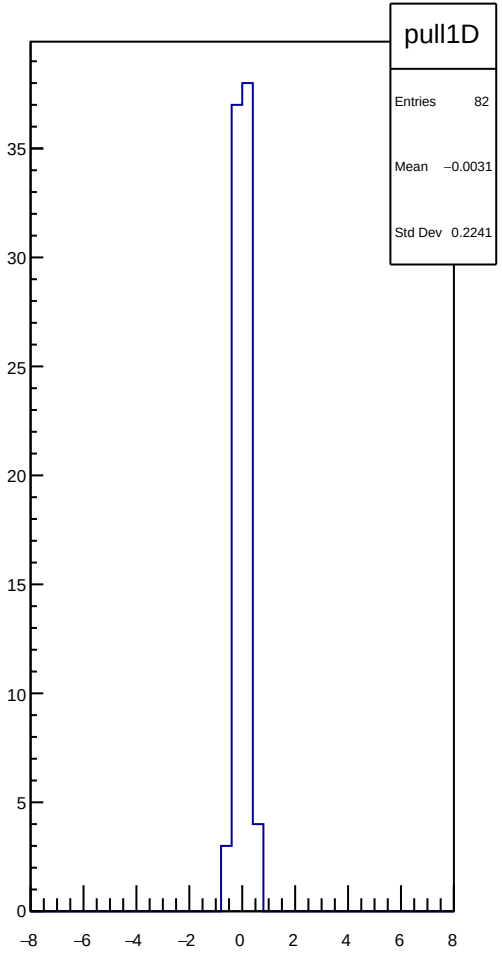

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.016 / 81
p0 −17.08 ± 2.026
pull
Entries 82
Mean −1282
Std Dev 0
pull1D
Entries 82
Mean 0.000857
Std Dev 0.1113

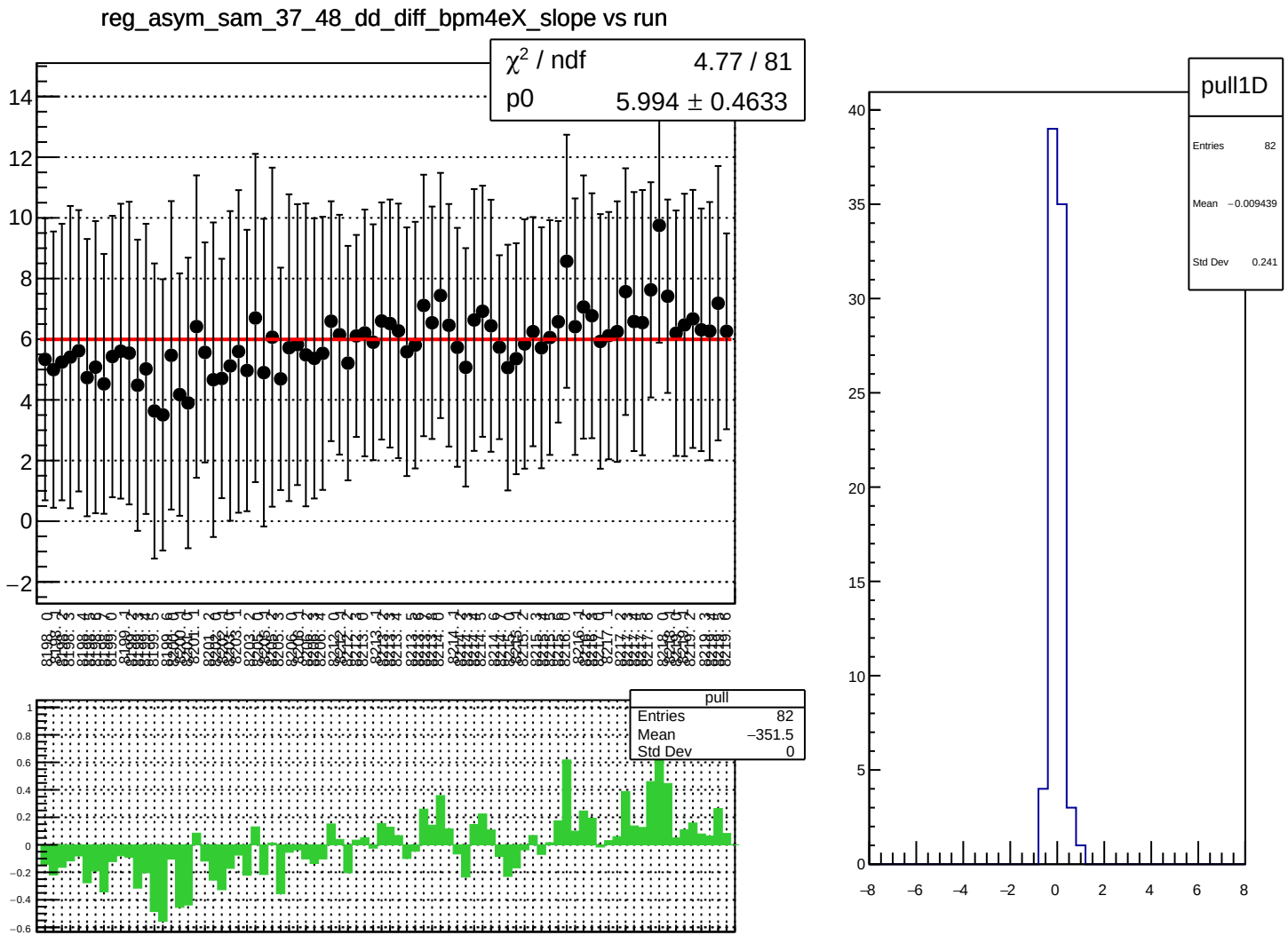

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9965 / 81
p0 0.4644 ± 0.09204
pull
Entries 82
Mean 2103
Std Dev 0
pull1D
Entries 82
Mean −0.0007117
Std Dev 0.1102

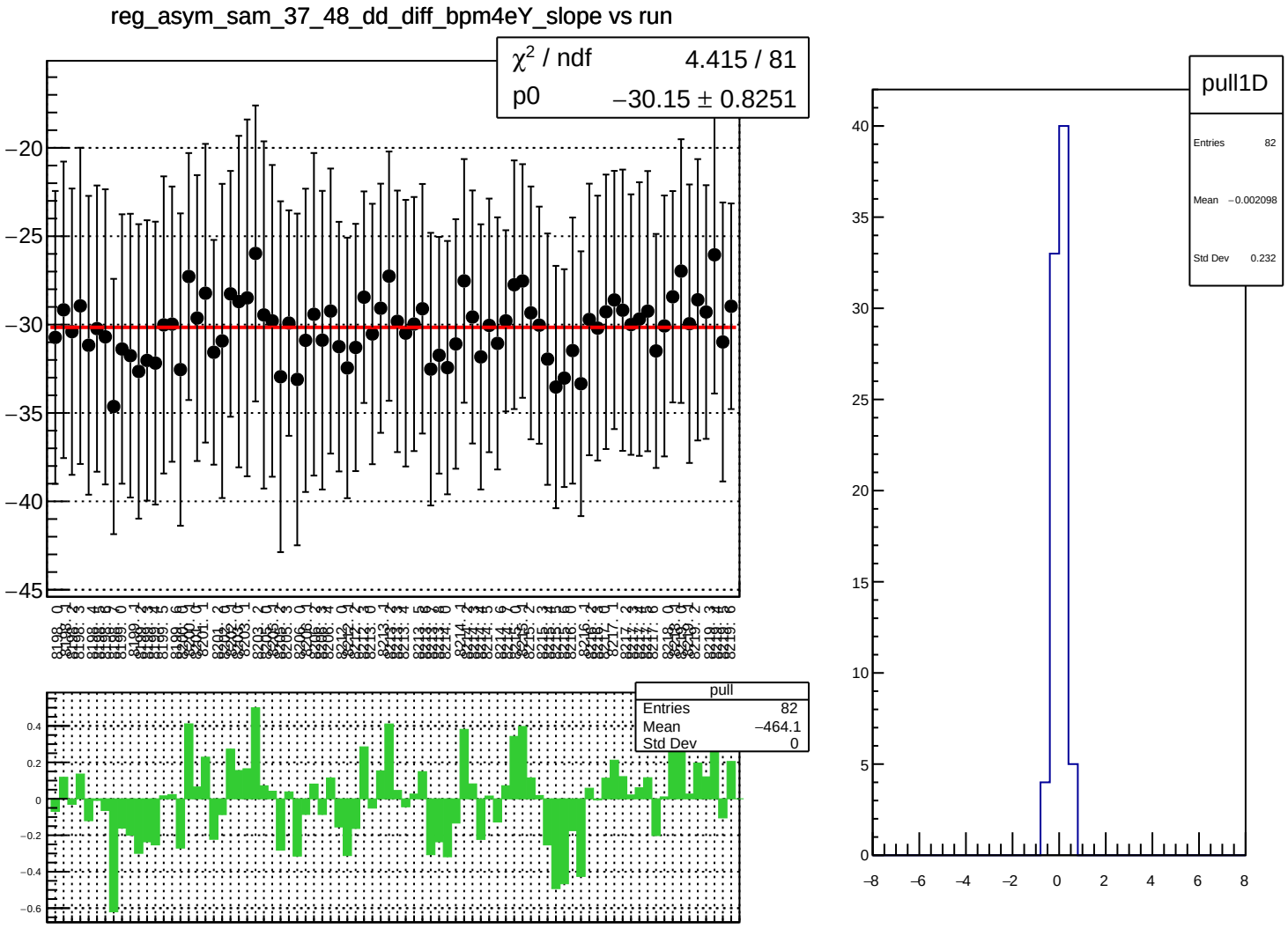

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.328 / 81
p0 4.639 ± 0.4613
pull
Entries 82
Mean −231.9
Std Dev 0

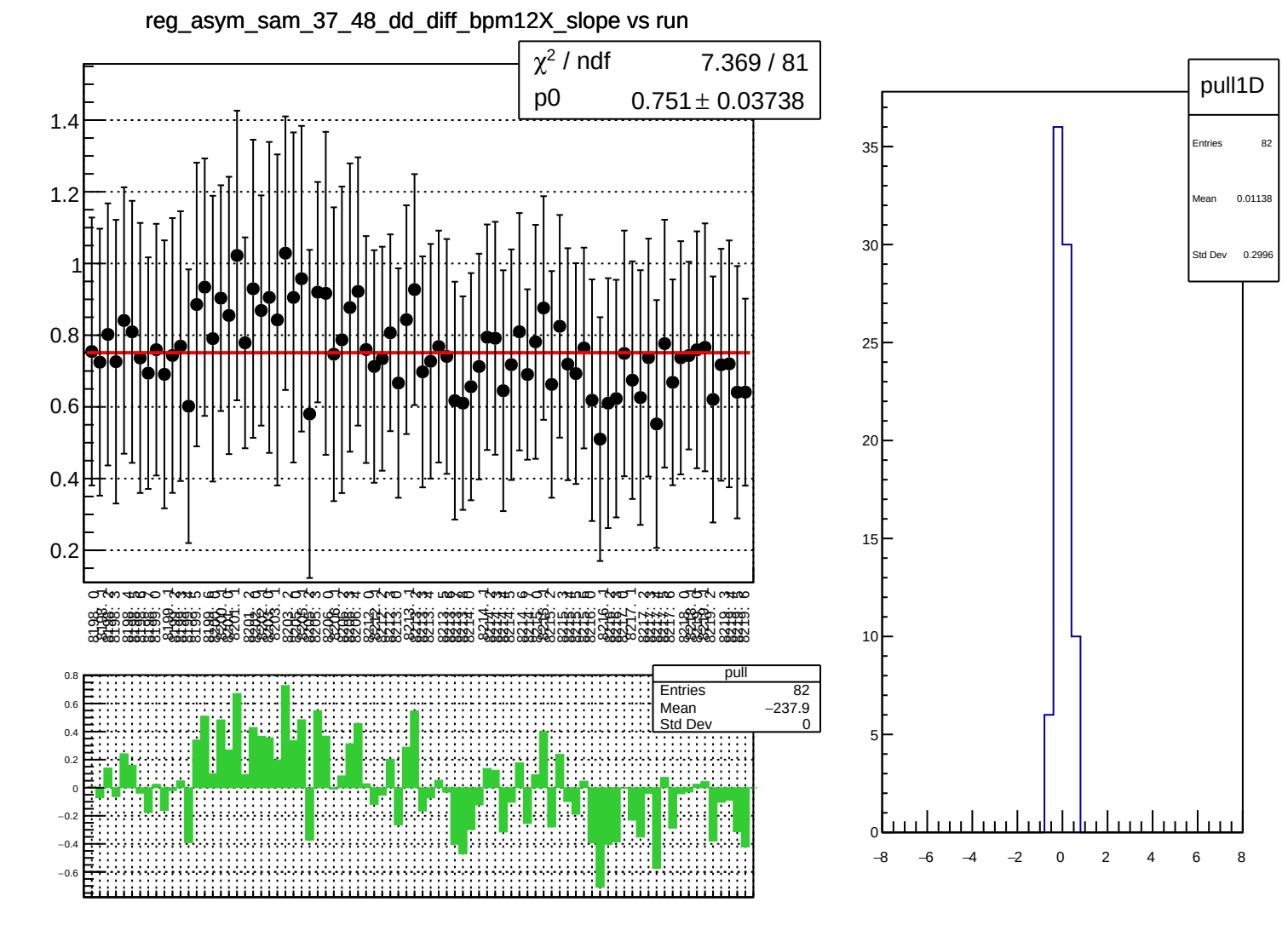

pull1D
Entries 82
Mean 0.01649
Std Dev 0.2773

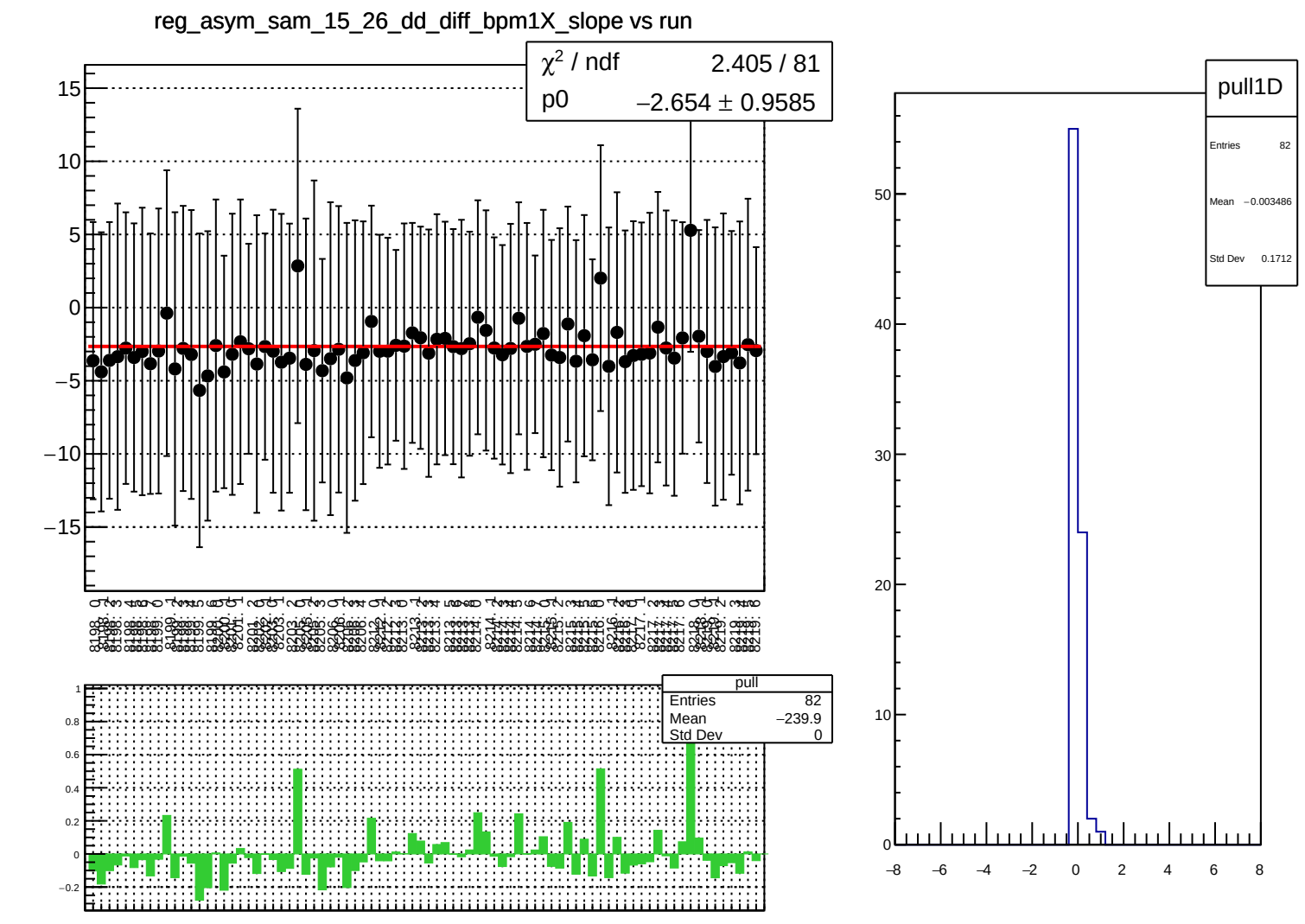

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.12 / 81
p0 −27.18 ± 0.7675
pull
Entries 82
Mean 91.35
Std Dev 37.22

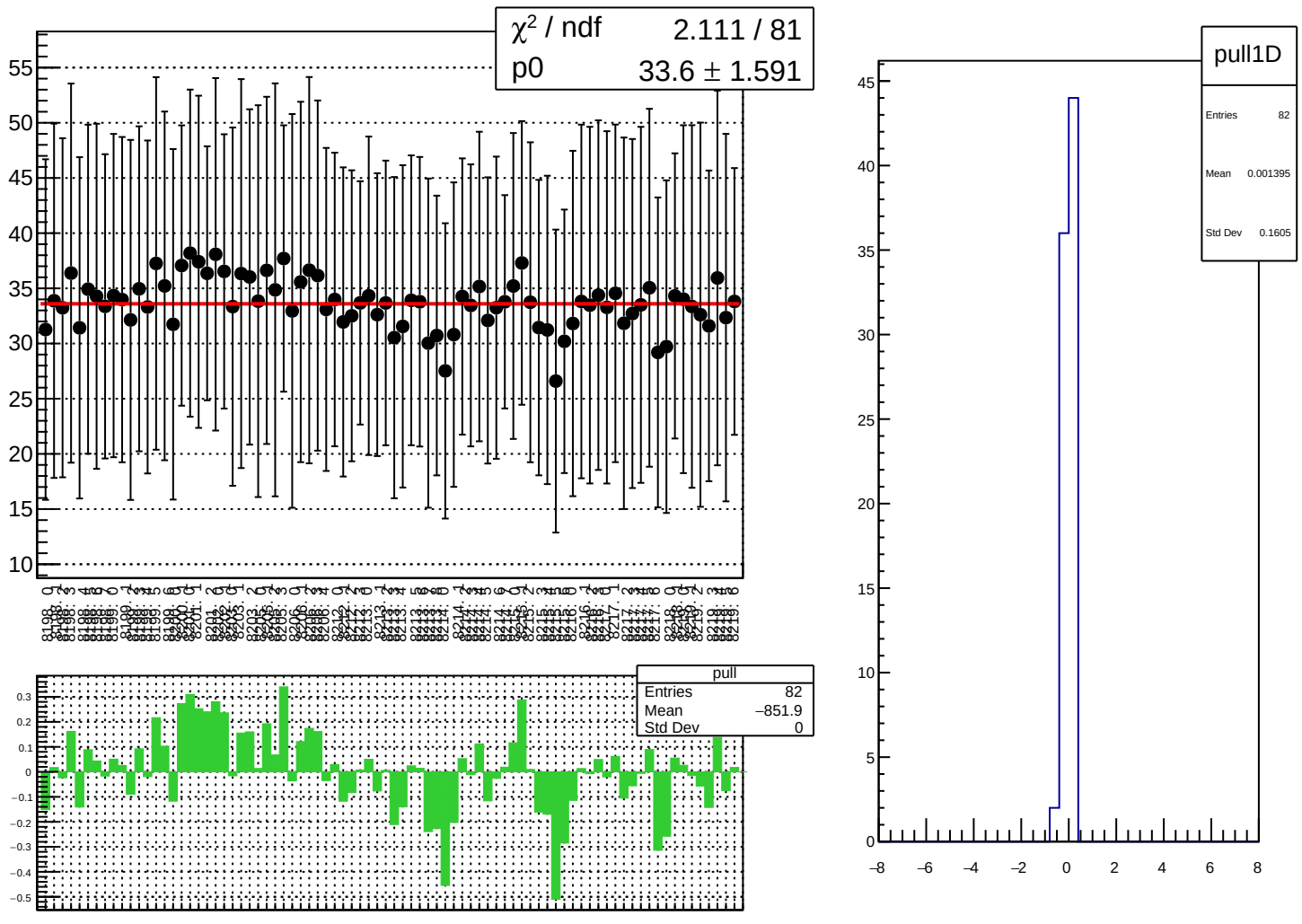

pull1D
Entries 82
Mean −0.0031
Std Dev 0.2241

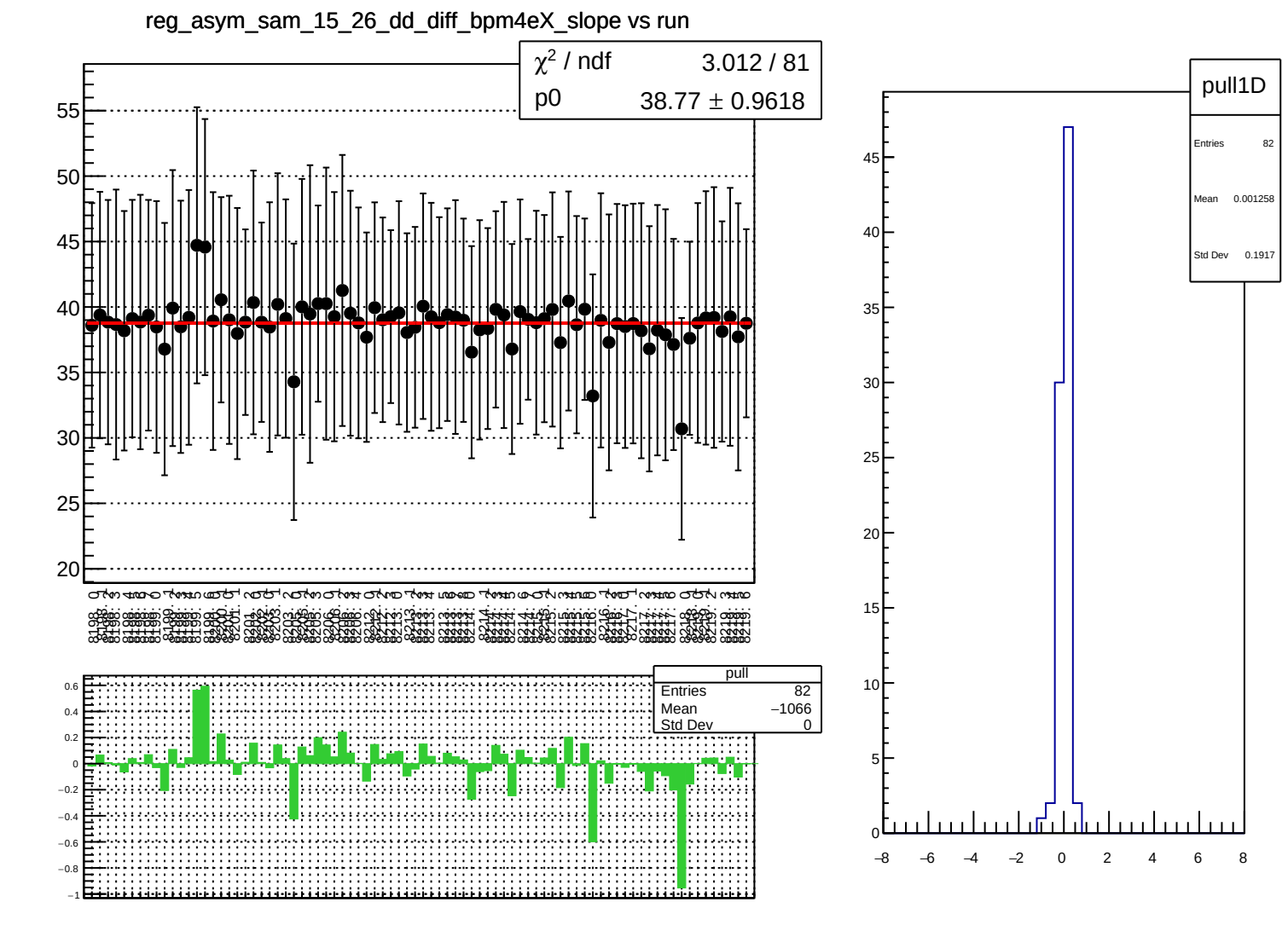

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.77 / 81
p0 5.994 ± 0.4633
pull
Entries 82
Mean −351.5
Std Dev 0
pull1D
Entries 82
Mean −0.009439
Std Dev 0.241

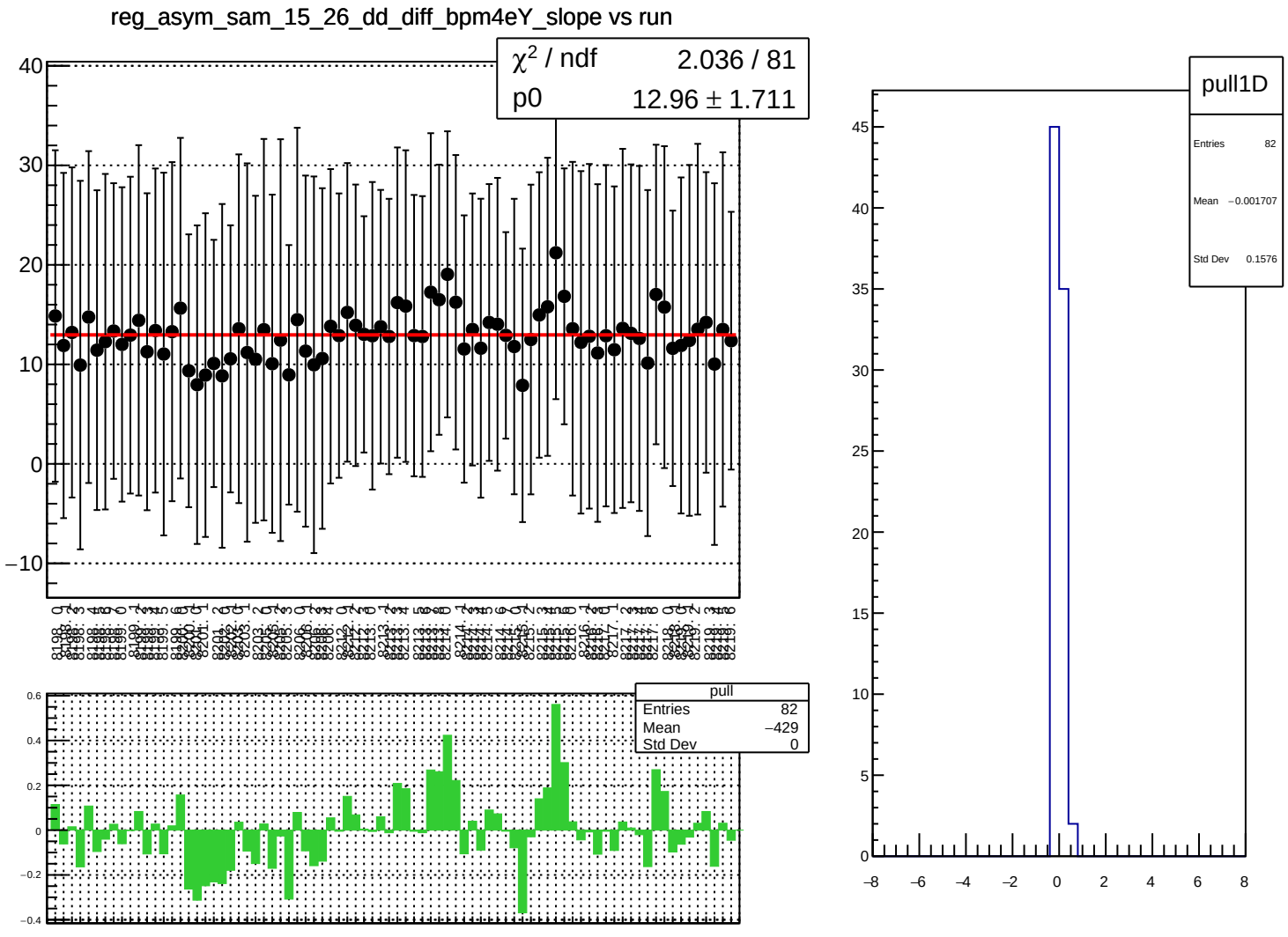

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.415 / 81
p0 −30.15 ± 0.8251
pull
Entries 82
Mean −464.1
Std Dev 0
pull1D
Entries 82
Mean −0.002098
Std Dev 0.232

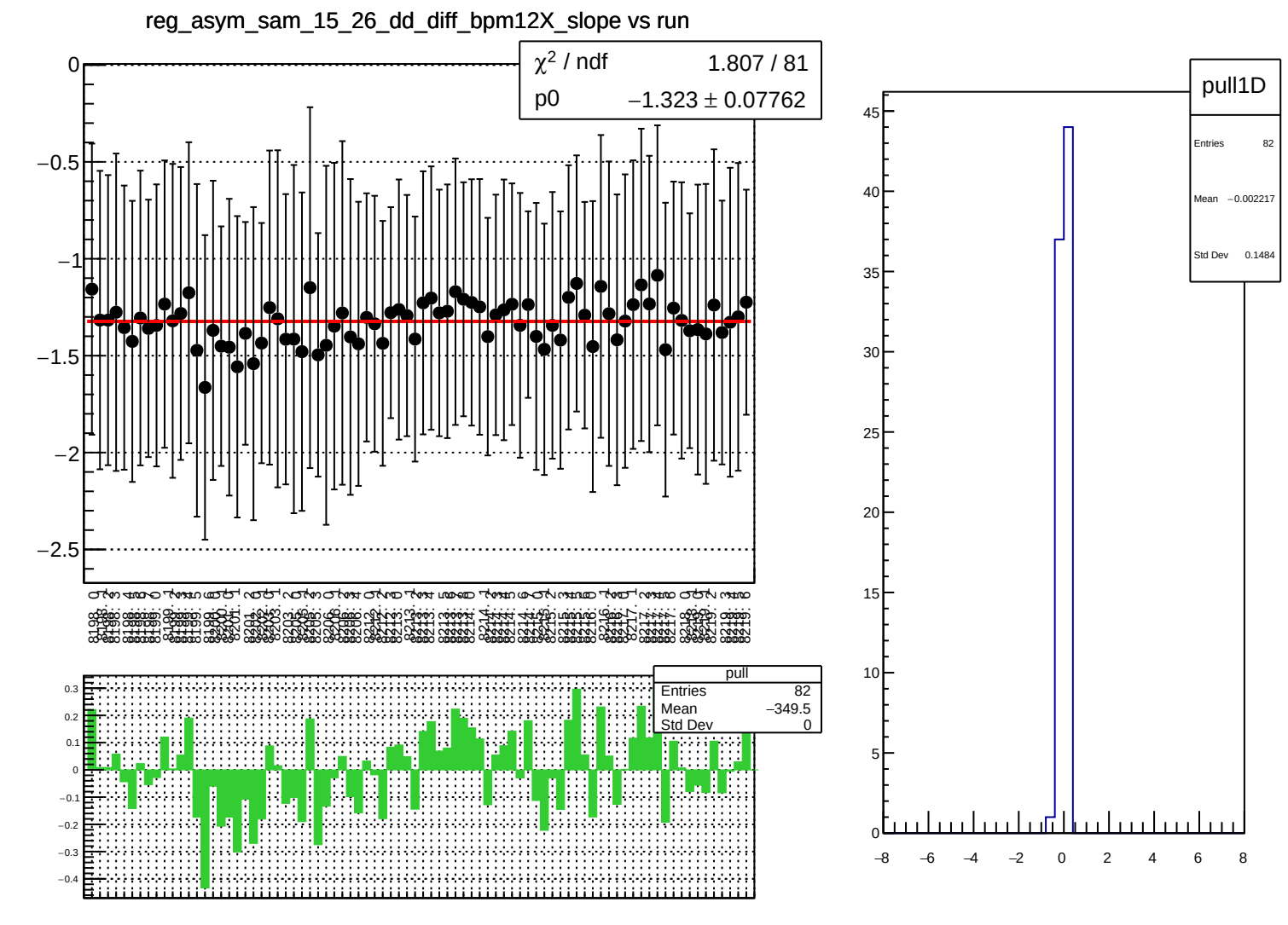

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 7.369 / 81
p0 0.751 ± 0.03738
pull
Entries 82
Mean −237.9
Std Dev 0
pull1D
Entries 82
Mean 0.01138
Std Dev 0.2996

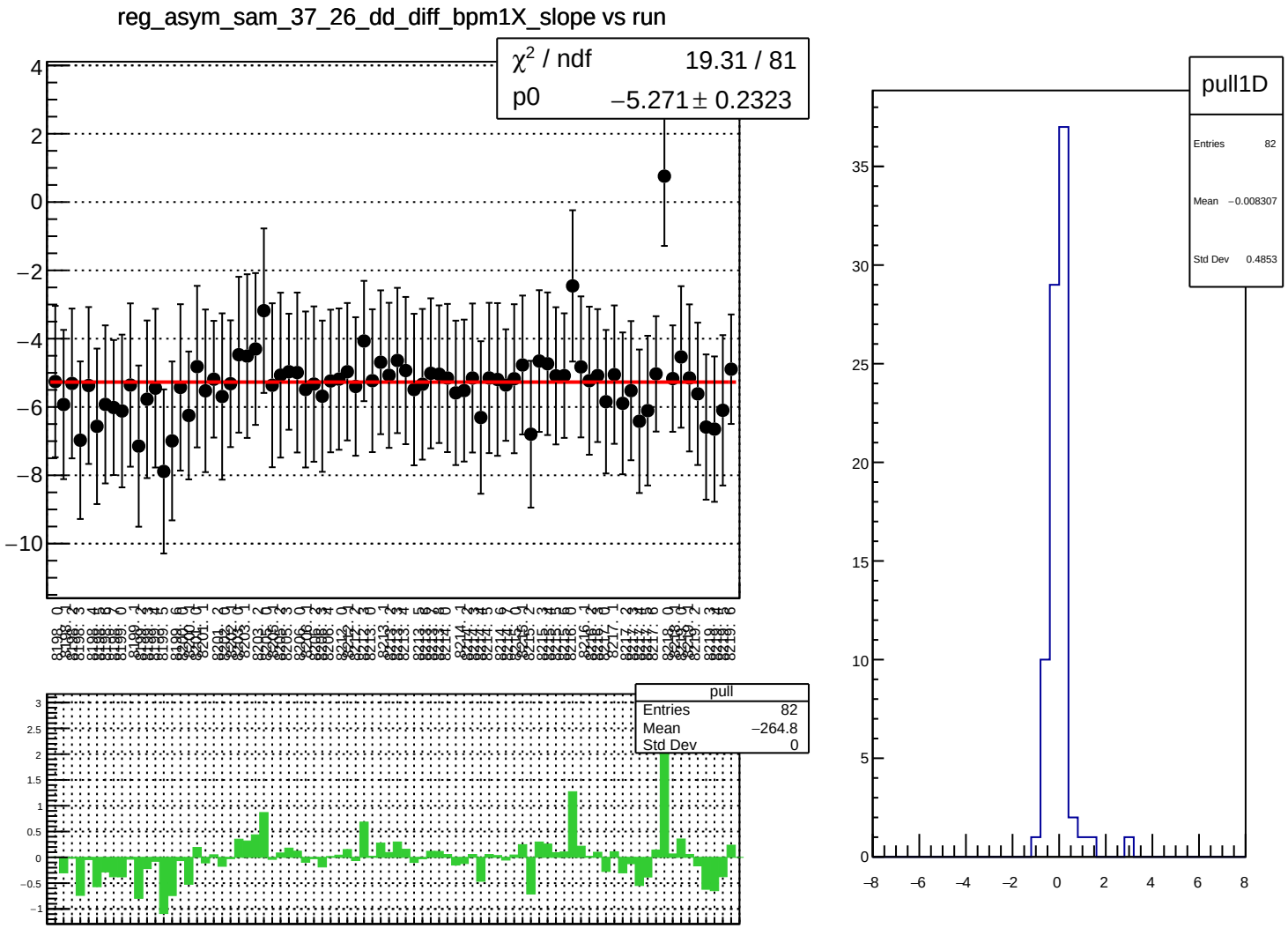

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.405 / 81
p0 −2.654 ± 0.9585
pull
Entries 82
Mean −239.9
Std Dev 0
pull1D
Entries 82
Mean −0.003486
Std Dev 0.1712

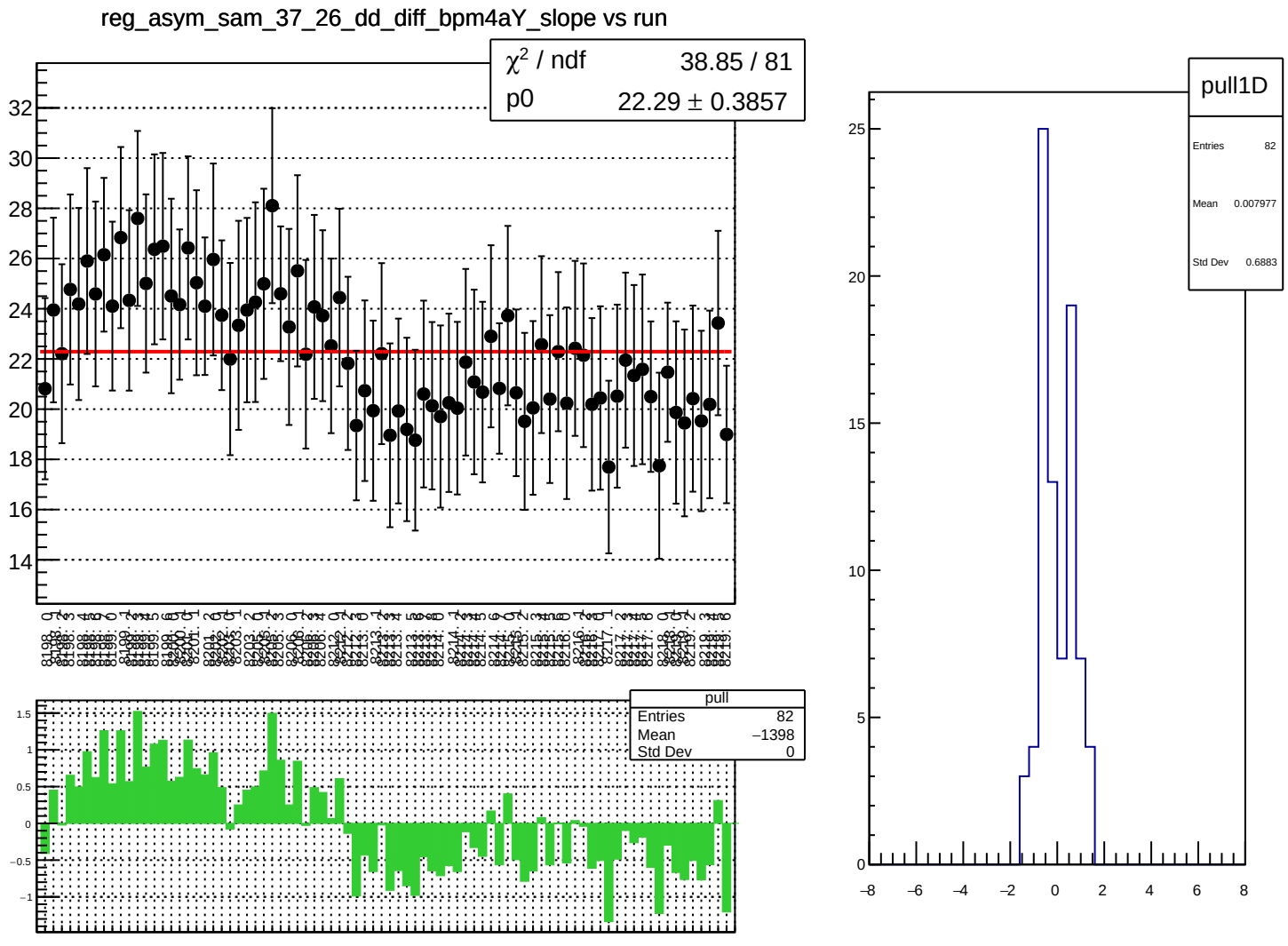

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.111 / 81
p0 33.6 ± 1.591
pull
Entries 82
Mean −851.9
Std Dev 0
pull1D
Entries 82
Mean 0.001395
Std Dev 0.1605

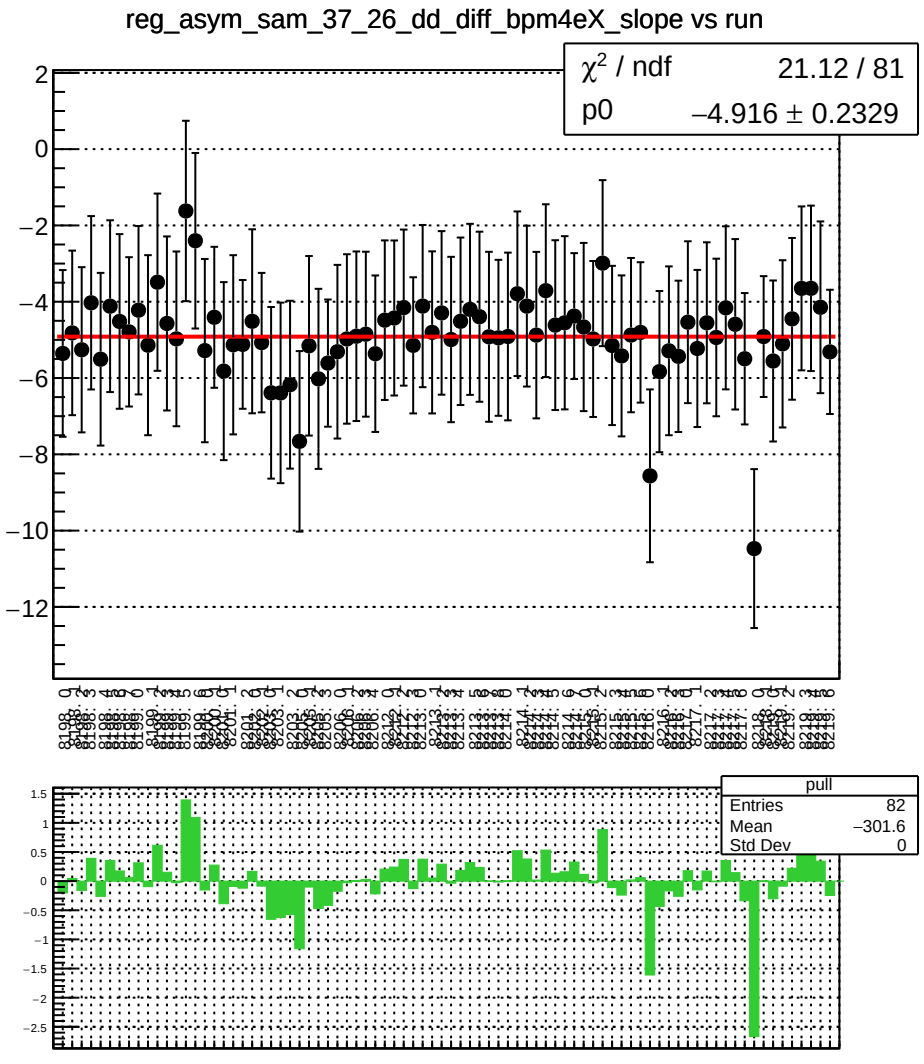

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.012 / 81
p0 38.77 ± 0.9618
pull
Entries 82
Mean −1066
Std Dev 0
pull1D
Entries 82
Mean 0.001258
Std Dev 0.1917

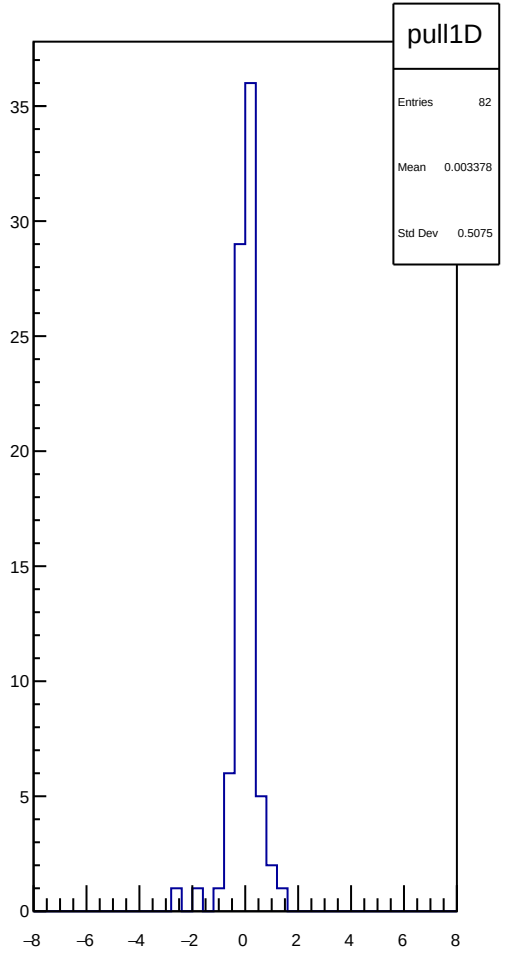

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.036 / 81
p0 12.96 ± 1.711
pull
Entries 82
Mean −429
Std Dev 0
pull1D
Entries 82
Mean −0.001707
Std Dev 0.1576

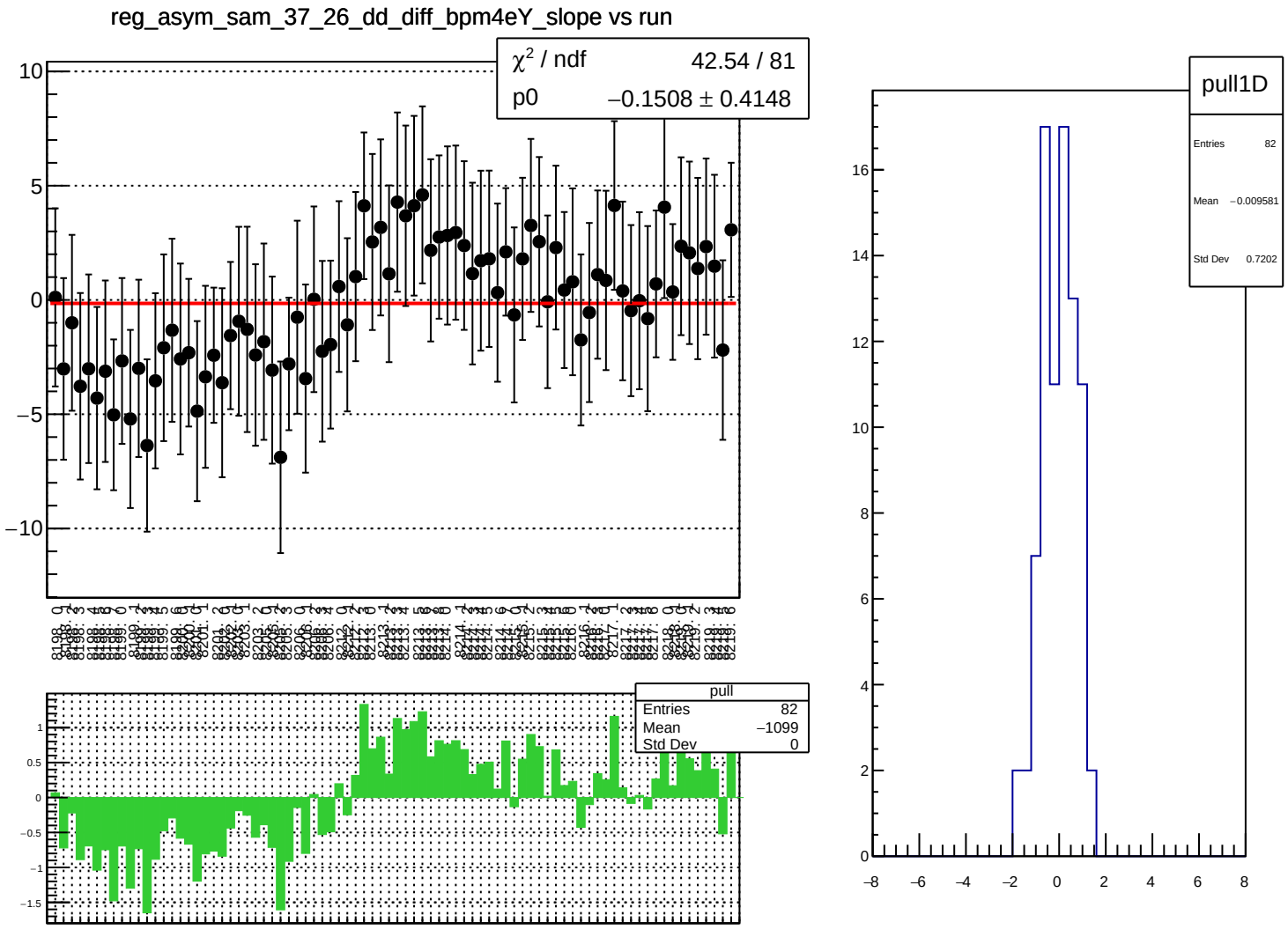

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.807 / 81
p0 −1.323 ± 0.07762
pull
Entries 82
Mean −349.5
Std Dev 0
pull1D
Entries 82
Mean −0.002217
Std Dev 0.1484

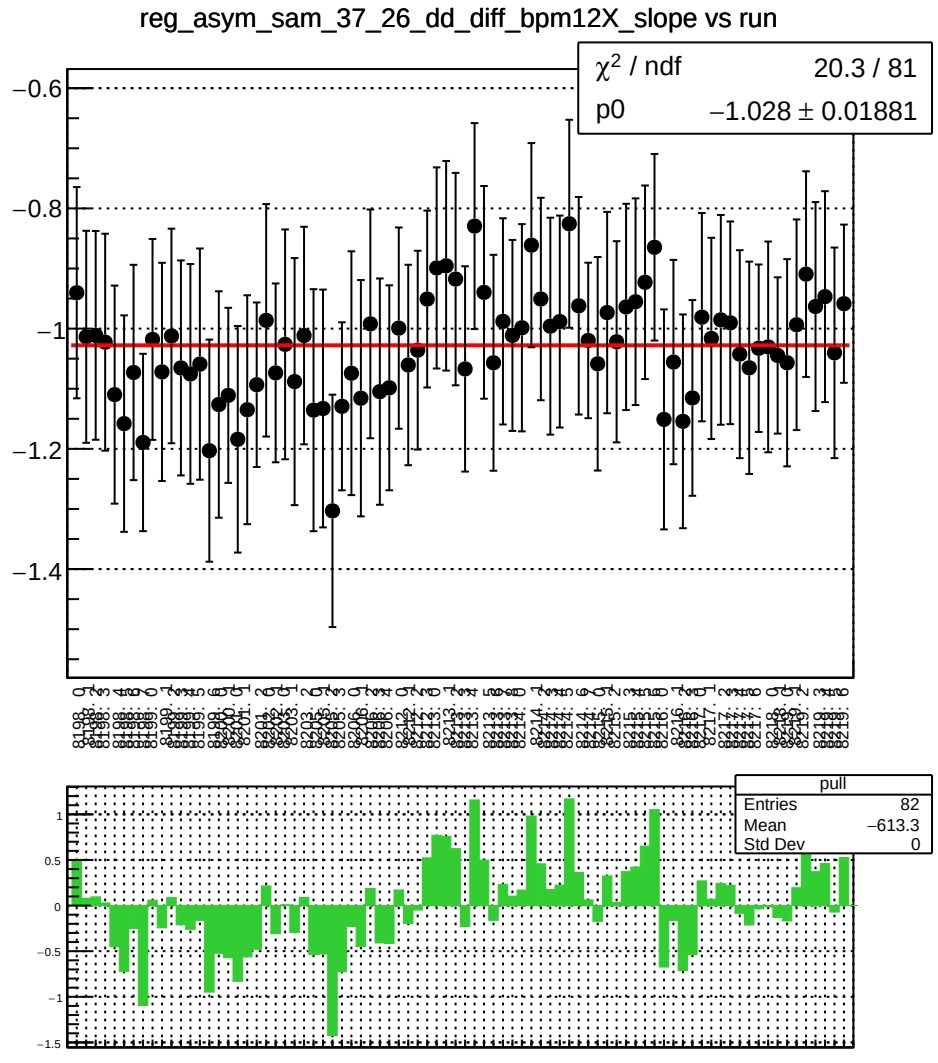

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 19.31 / 81
p0 −5.271 ± 0.2323
pull
Entries 82
Mean −264.8
Std Dev 0
pull1D
Entries 82
Mean −0.008307
Std Dev 0.4853

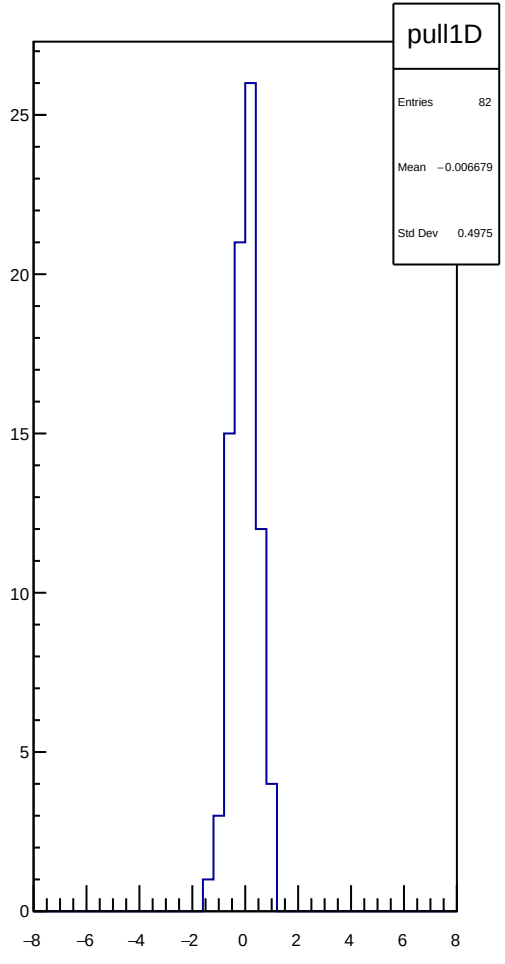

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.85 / 81
p0 22.29 ± 0.3857
pull
Entries 82
Mean −1398
Std Dev 0
pull1D
Entries 82
Mean 0.007977
Std Dev 0.6883

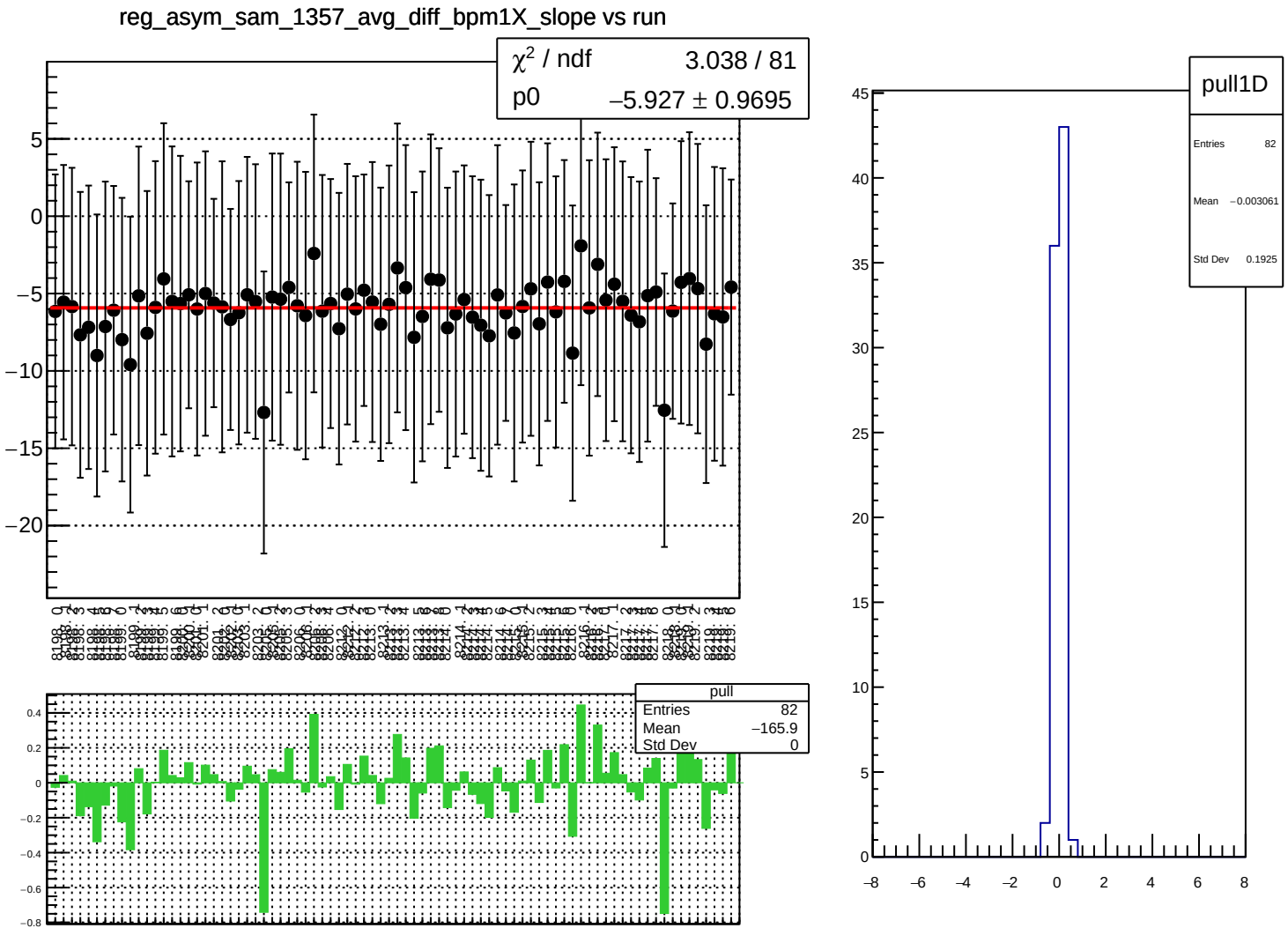

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.12 / 81
p0 −4.916 ± 0.2329
pull
Entries 82
Mean −301.6
Std Dev 0

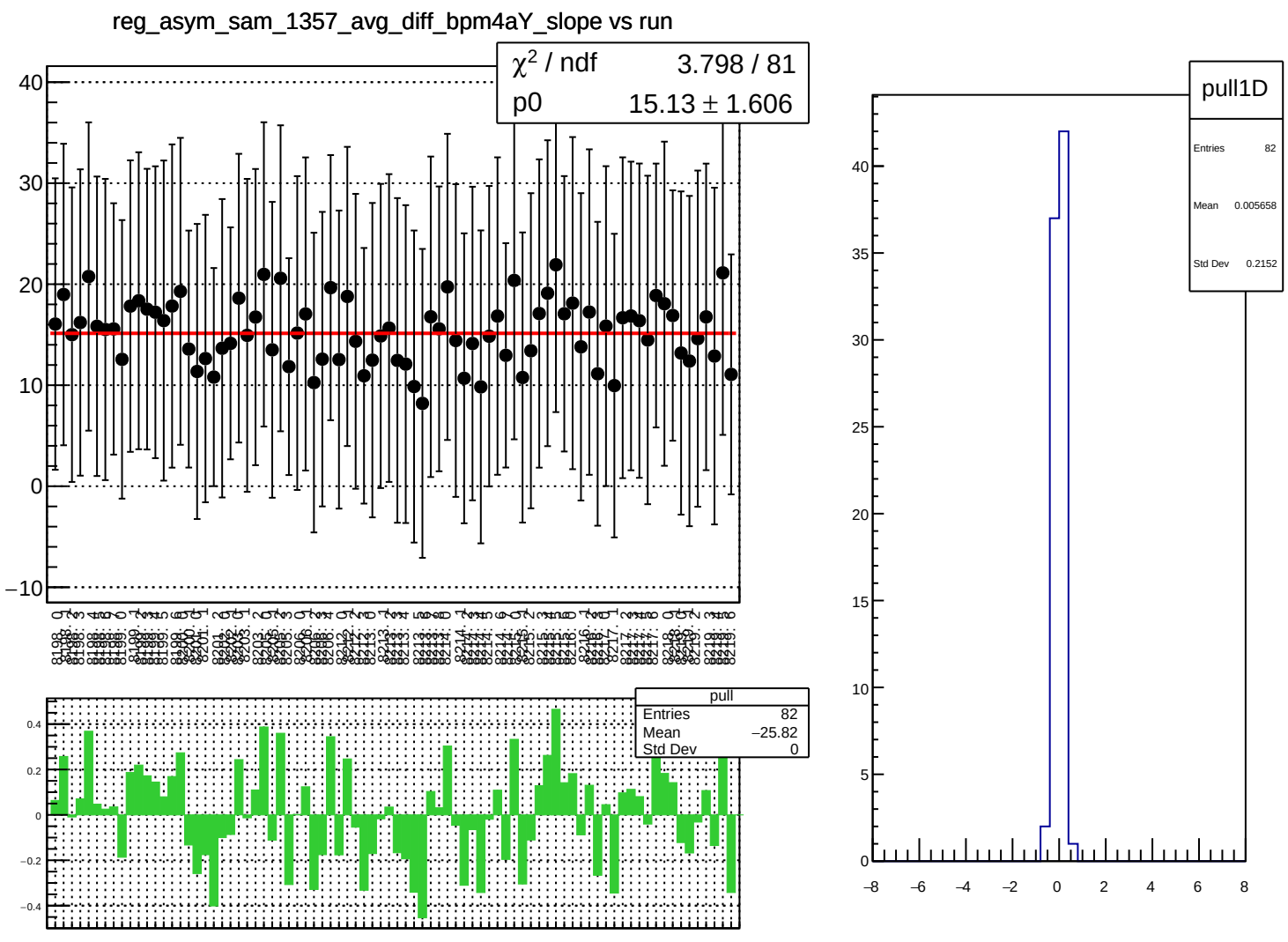

pull1D
Entries 82
Mean 0.003378
Std Dev 0.5075

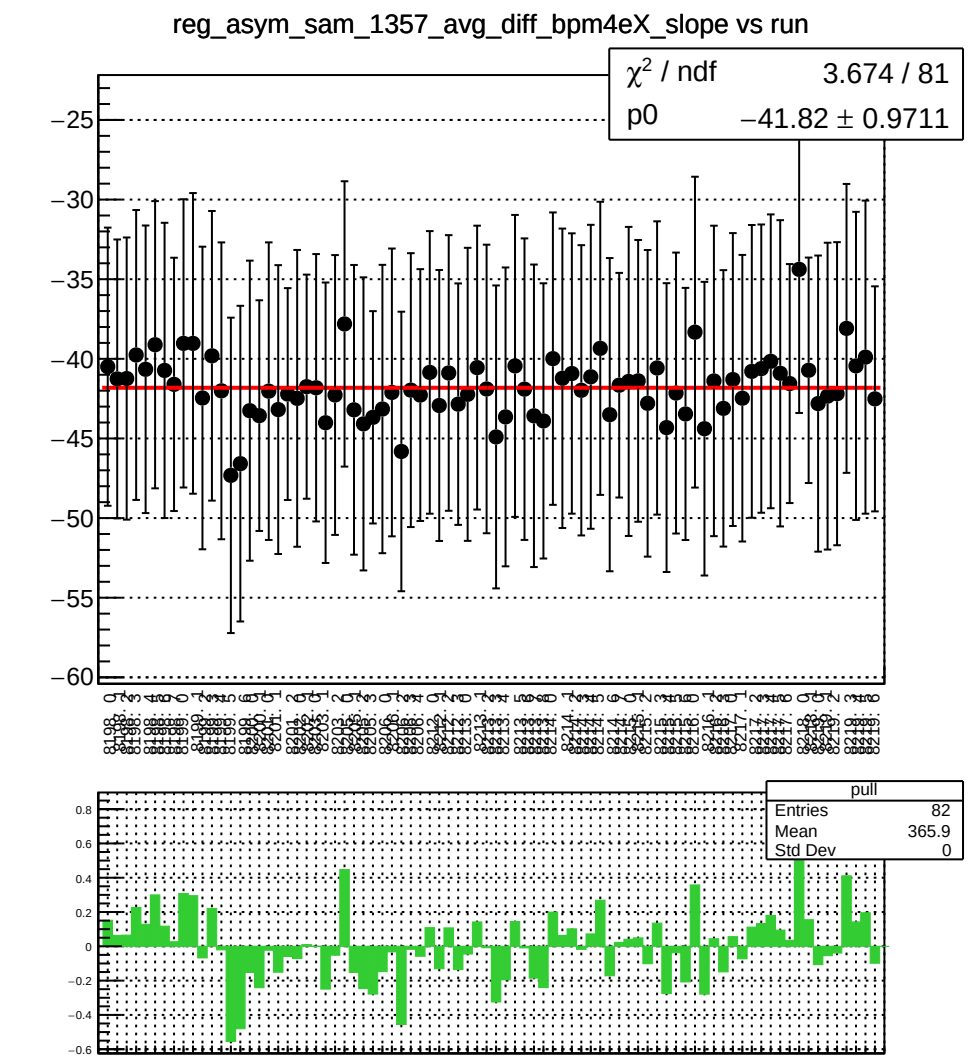

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.54 / 81
p0 −0.1508 ± 0.4148
pull
Entries 82
Mean −1099
Std Dev 0
pull1D
Entries 82
Mean −0.009581
Std Dev 0.7202

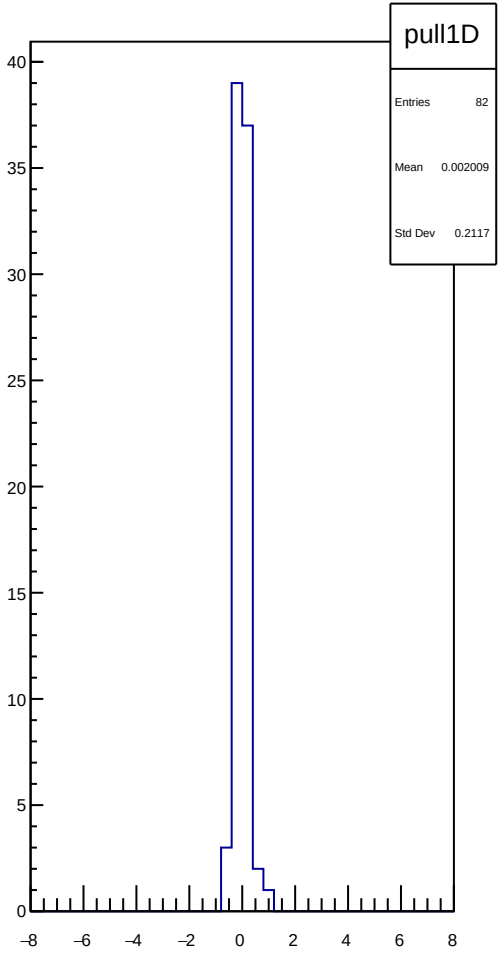

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 20.3 / 81
p0 −1.028 ± 0.01881
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 82
Mean −613.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

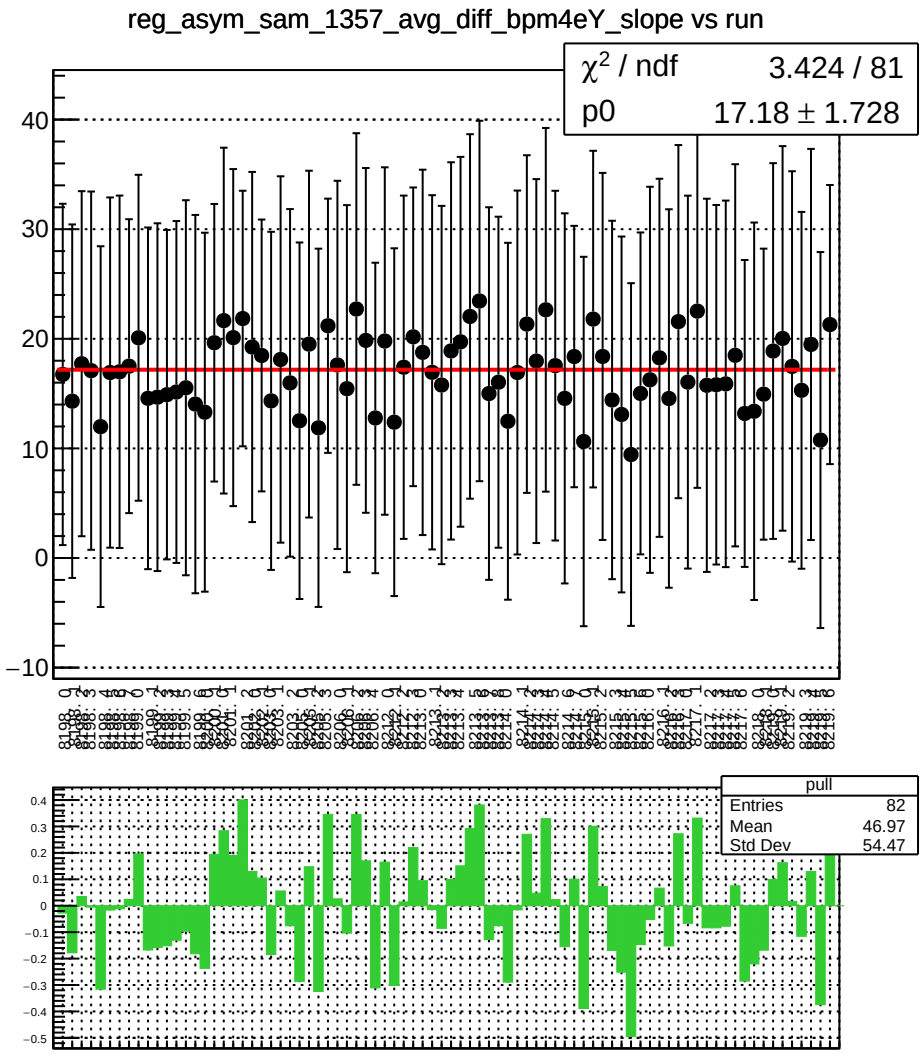

pull1D
Entries 82
Mean −0.006679
Std Dev 0.4975
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

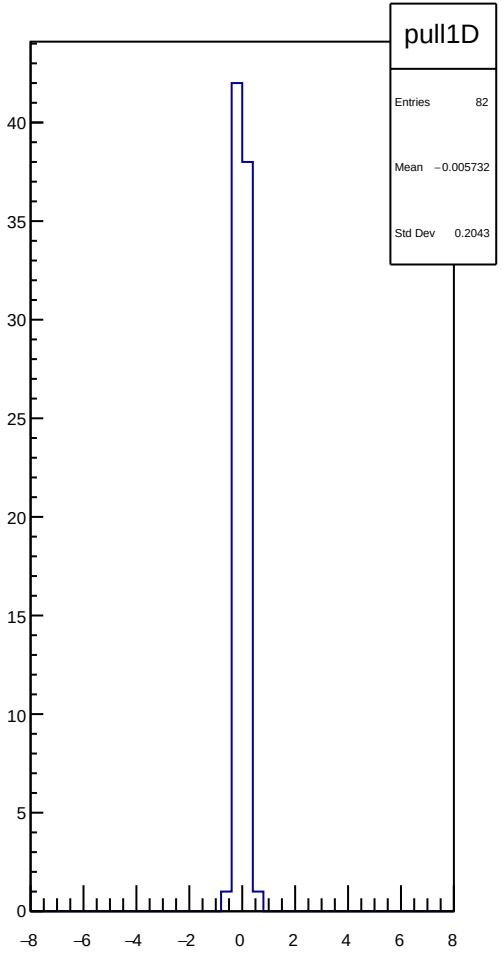

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 3.038 / 81
p0 −5.927 ± 0.9695
pull
Entries 82
Mean −165.9
Std Dev 0
pull1D
Entries 82
Mean −0.003061
Std Dev 0.1925

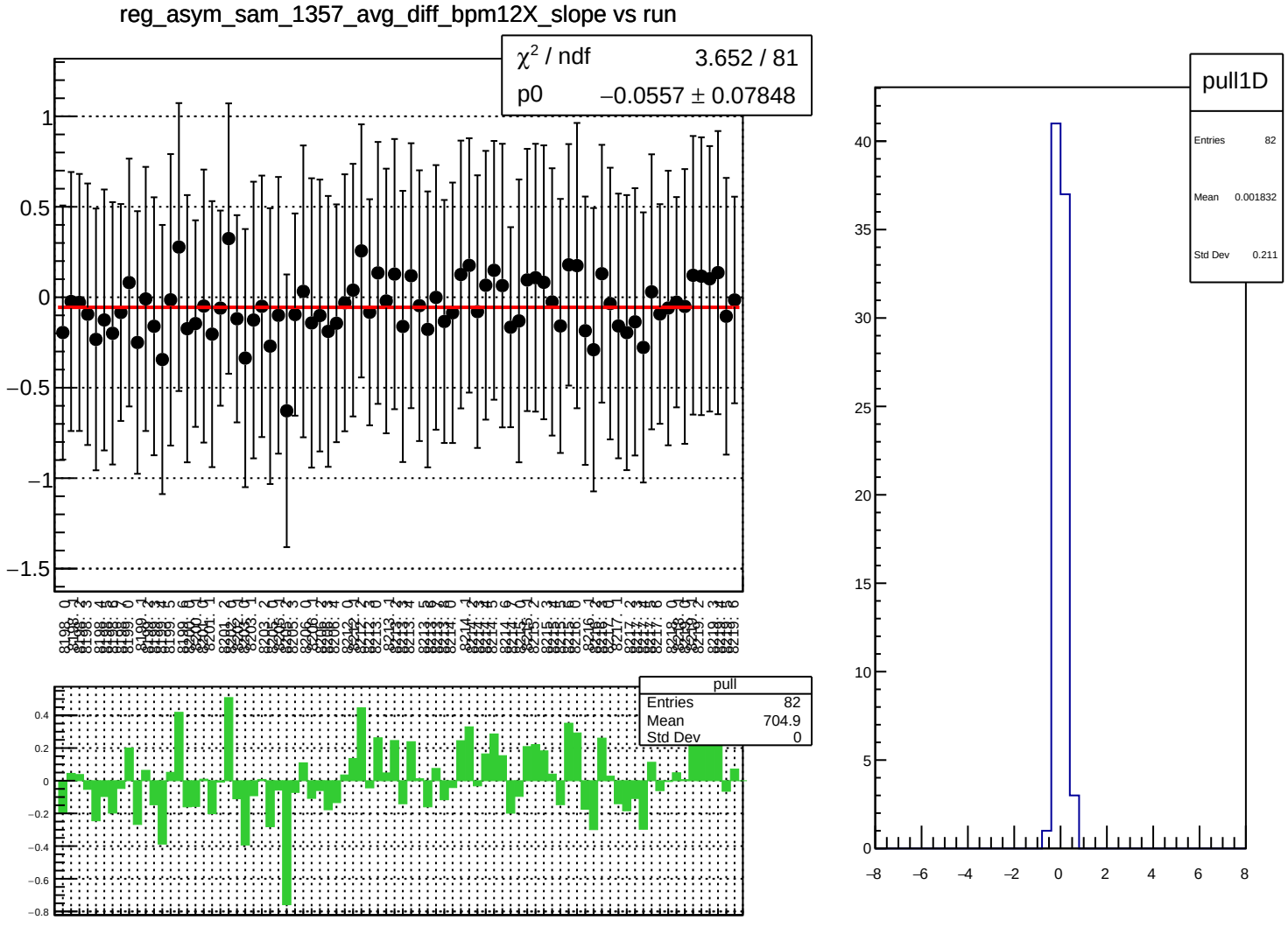

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.798 / 81
p0 15.13 ± 1.606
pull
Entries 82
Mean −25.82
Std Dev 0
pull1D
Entries 82
Mean 0.005658
Std Dev 0.2152

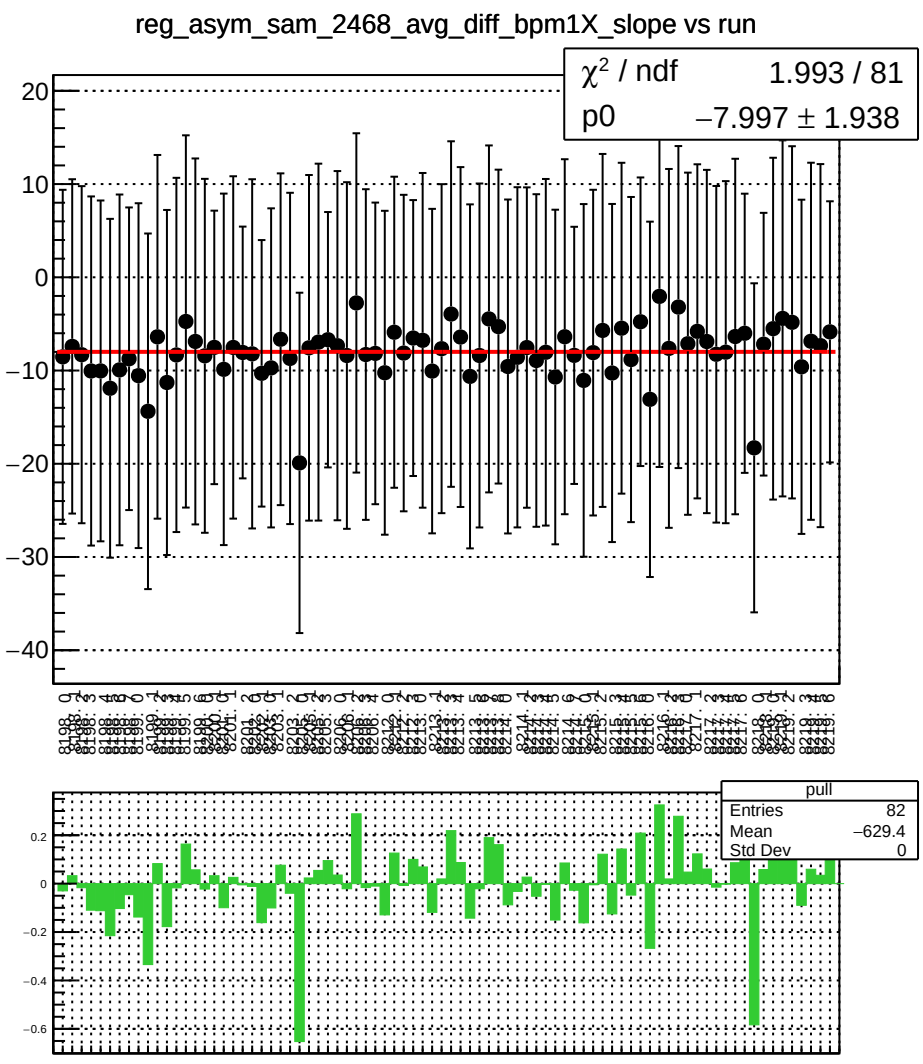

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.674 / 81
p0 −41.82 ± 0.9711
pull
Entries 82
Mean 365.9
Std Dev 0

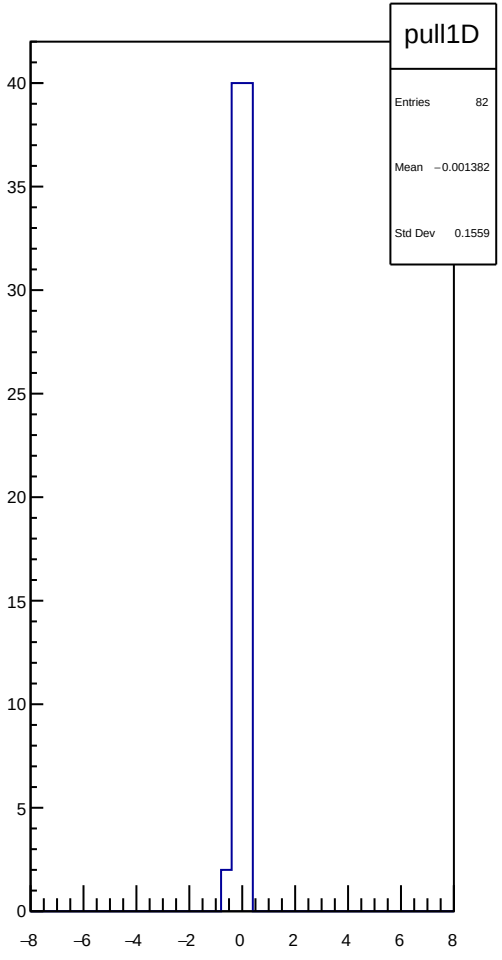

pull1D
Entries 82
Mean 0.002009
Std Dev 0.2117

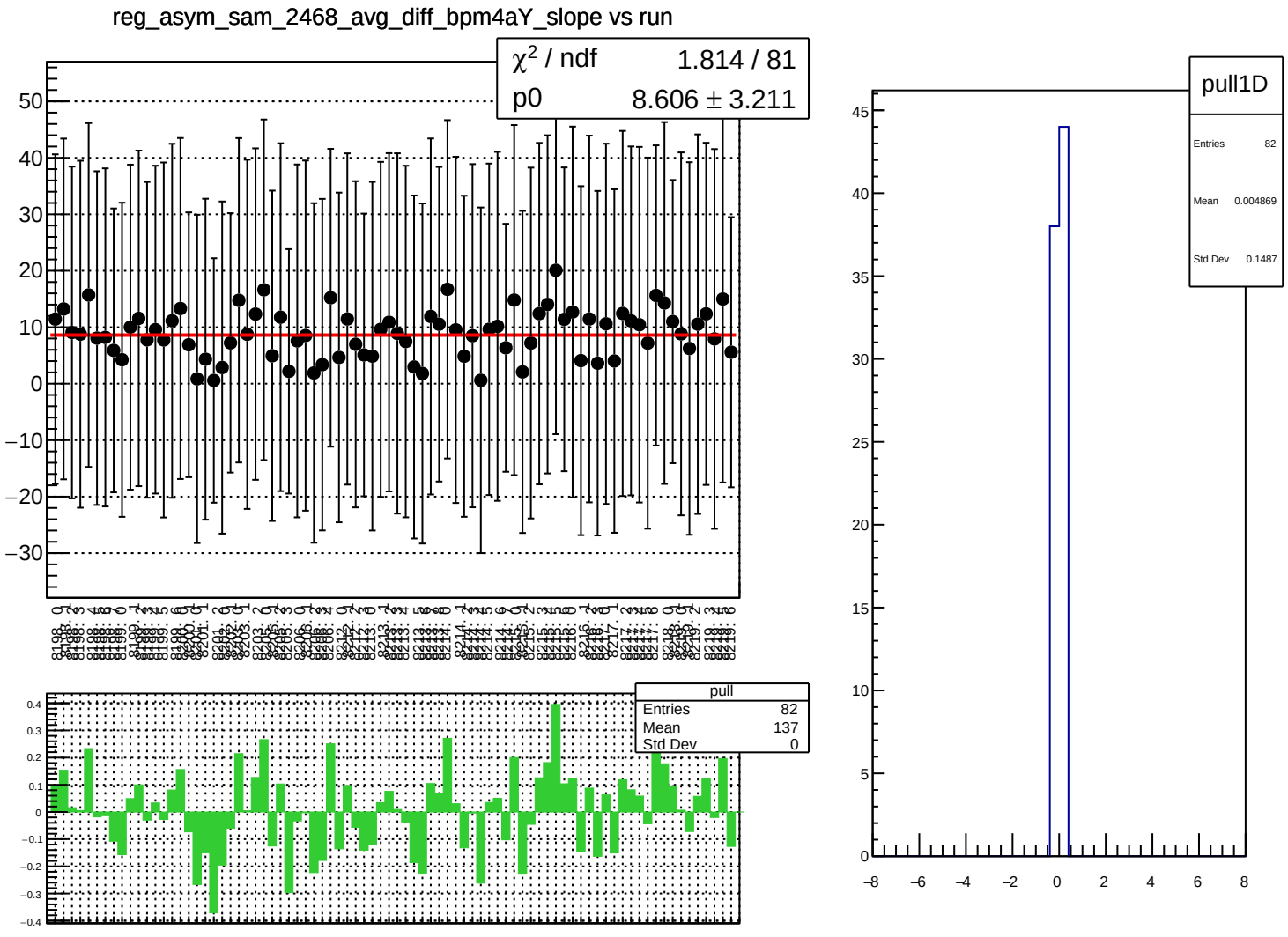

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.424 / 81
p0 17.18 ± 1.728
pull
Entries 82
Mean 46.97
Std Dev 54.47

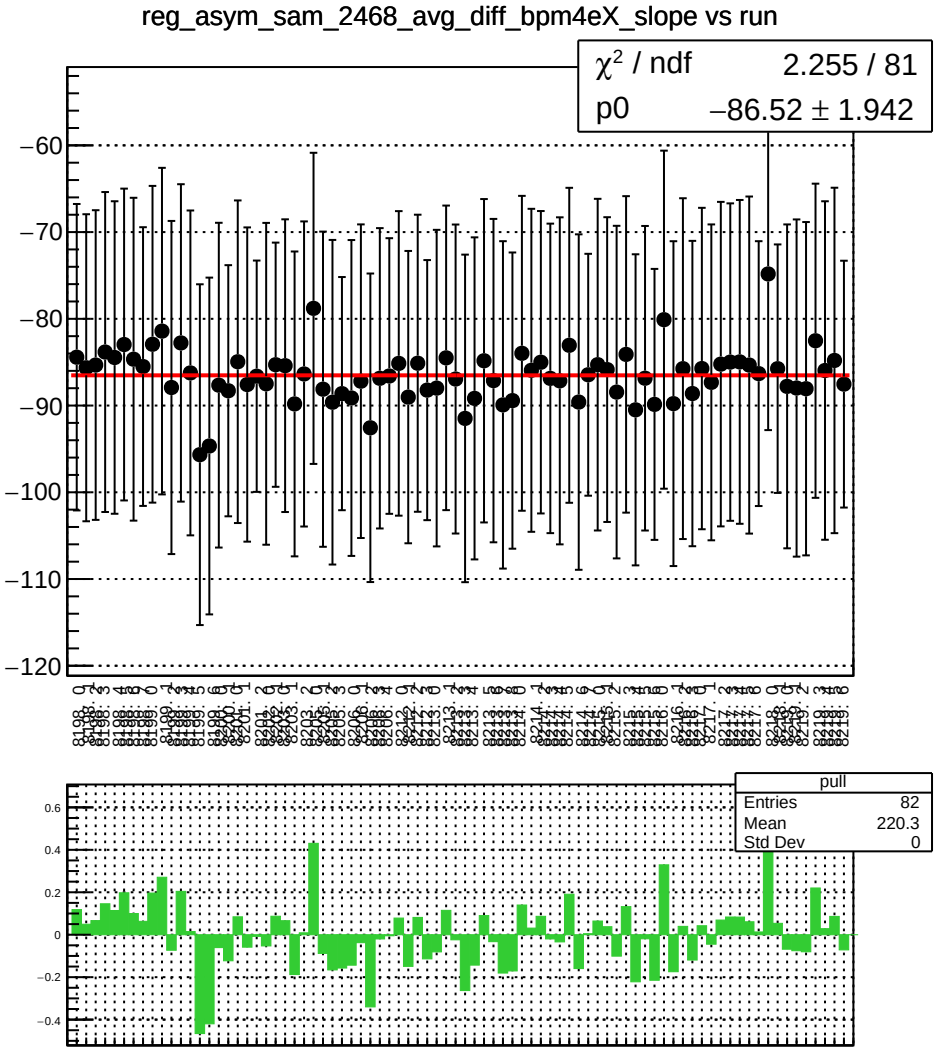

pull1D
Entries 82
Mean −0.005732
Std Dev 0.2043

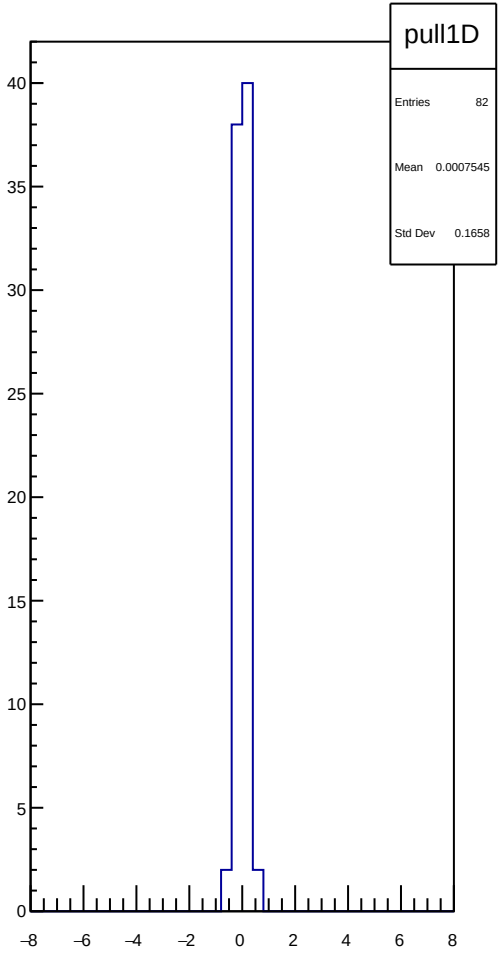

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 3.652 / 81
p0 −0.0557 ± 0.07848
pull
Entries 82
Mean 704.9
Std Dev 0
pull1D
Entries 82
Mean 0.001832
Std Dev 0.211

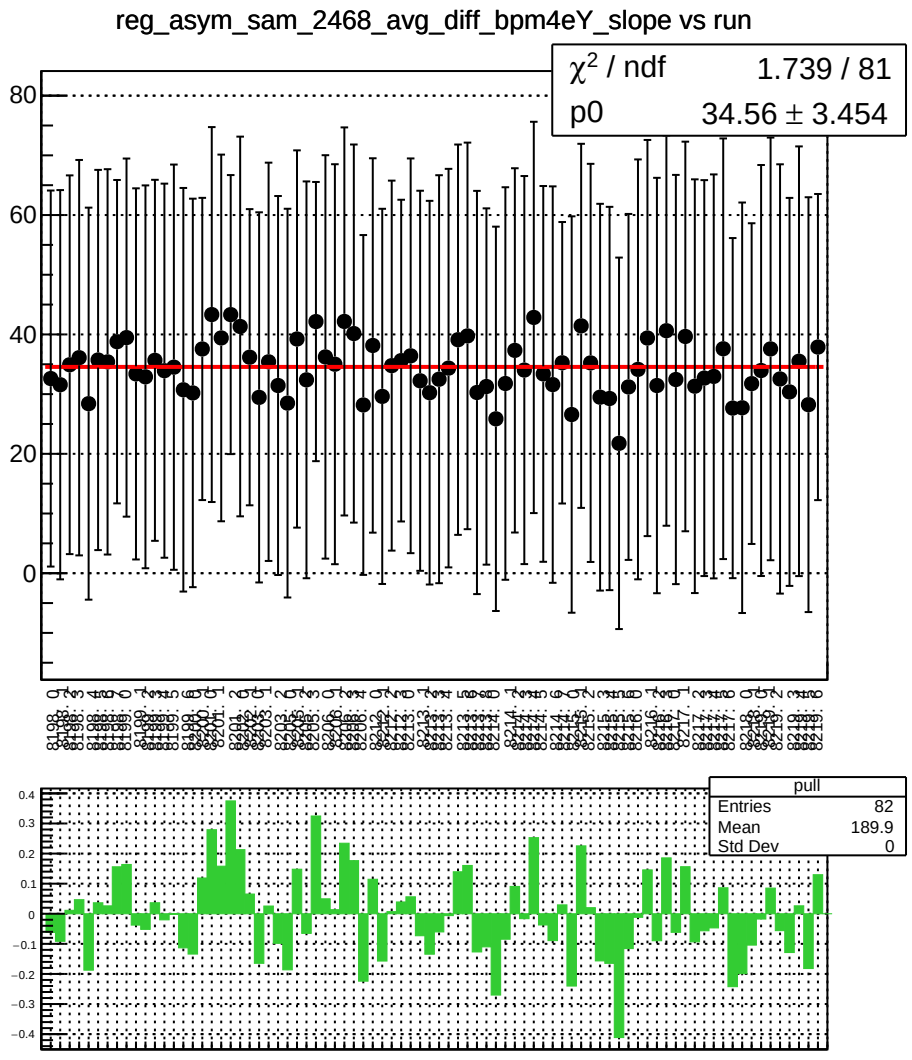

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 1.993 / 81
p0 −7.997 ± 1.938
pull
Entries 82
Mean −629.4
Std Dev 0

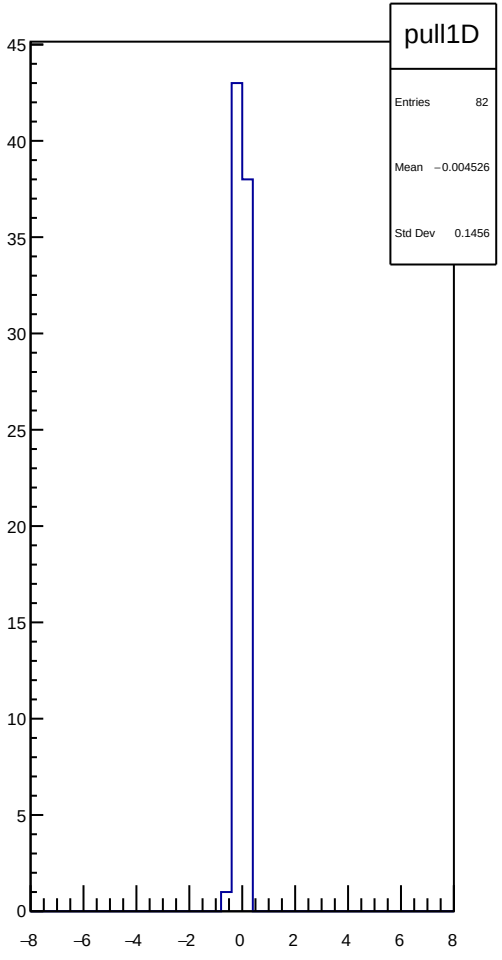

pull1D
Entries 82
Mean −0.001382
Std Dev 0.1559

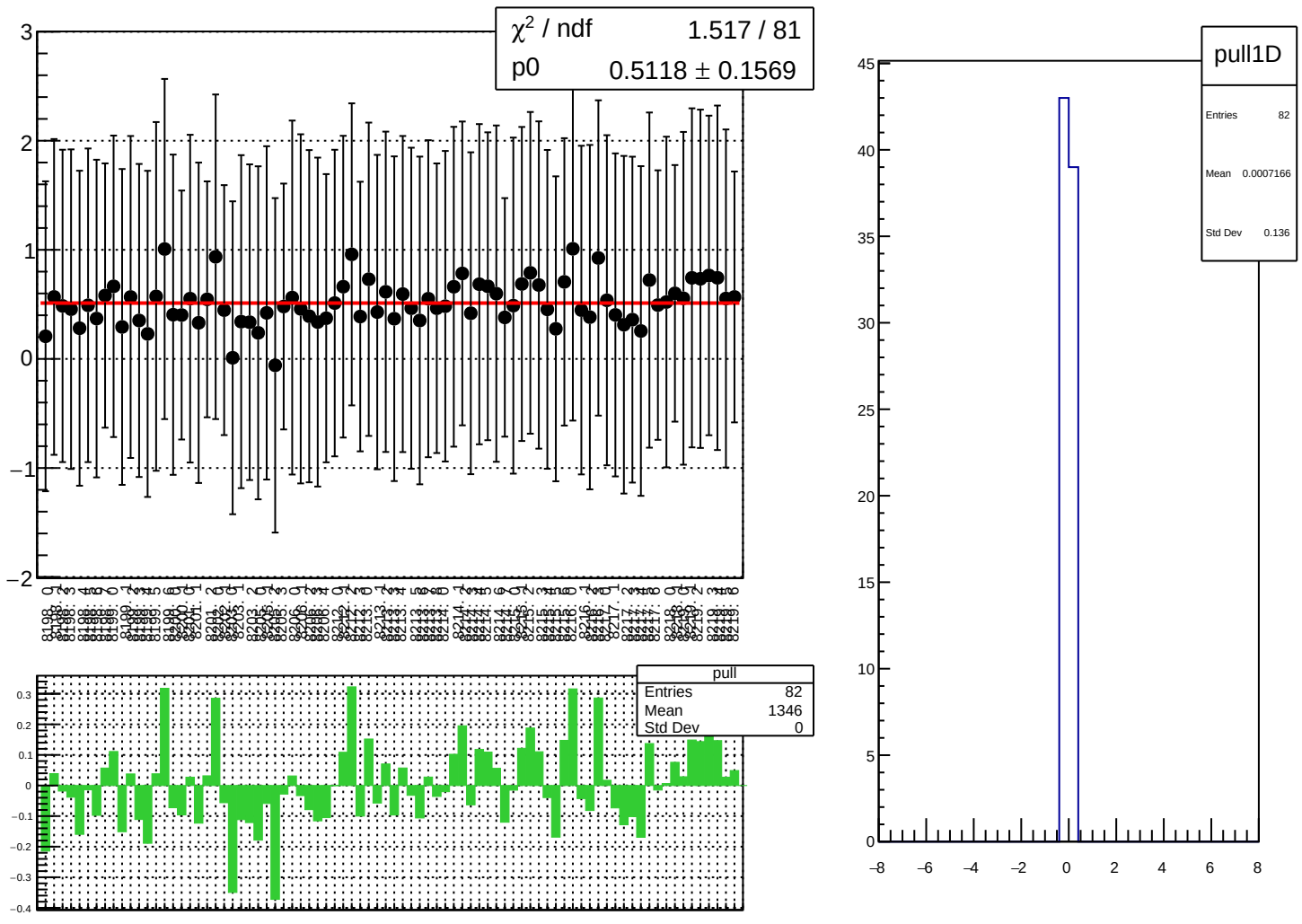

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.814 / 81
p0 8.606 ± 3.211
pull
Entries 82
Mean 137
Std Dev 0
pull1D
Entries 82
Mean 0.004869
Std Dev 0.1487

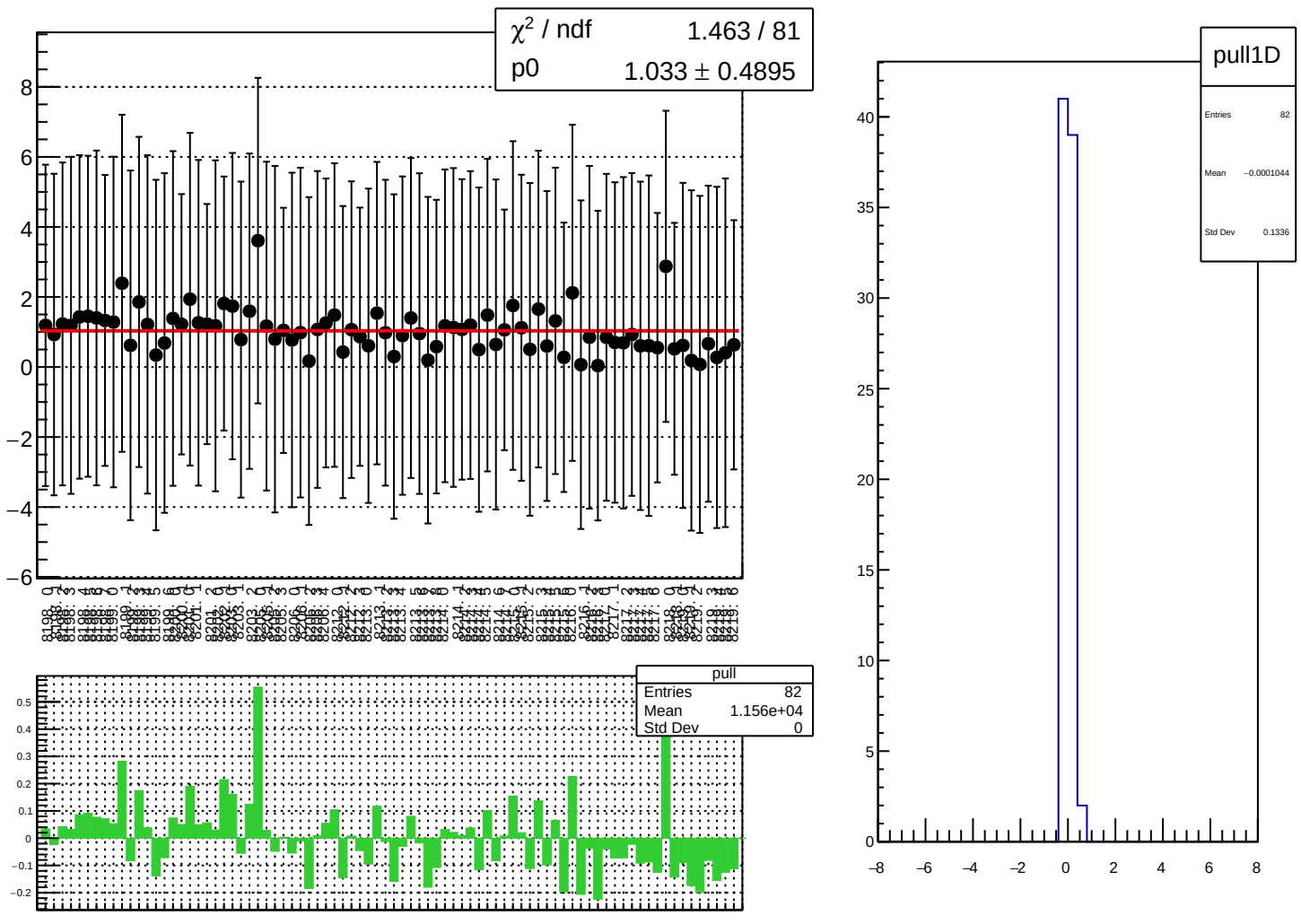

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.255 / 81
p0 −86.52 ± 1.942
pull
Entries 82
Mean 220.3
Std Dev 0

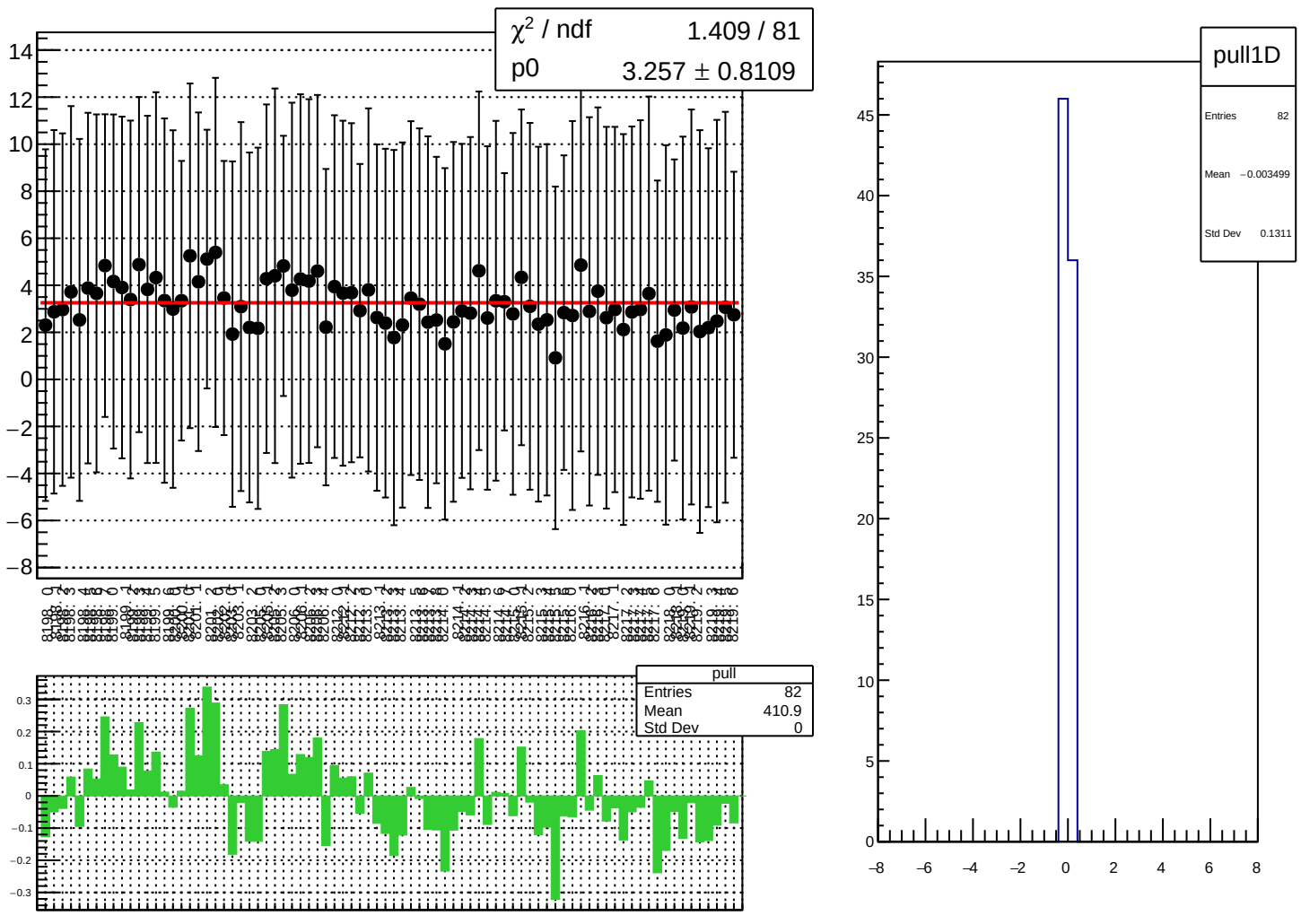

pull1D
Entries 82
Mean 0.0007545
Std Dev 0.1658

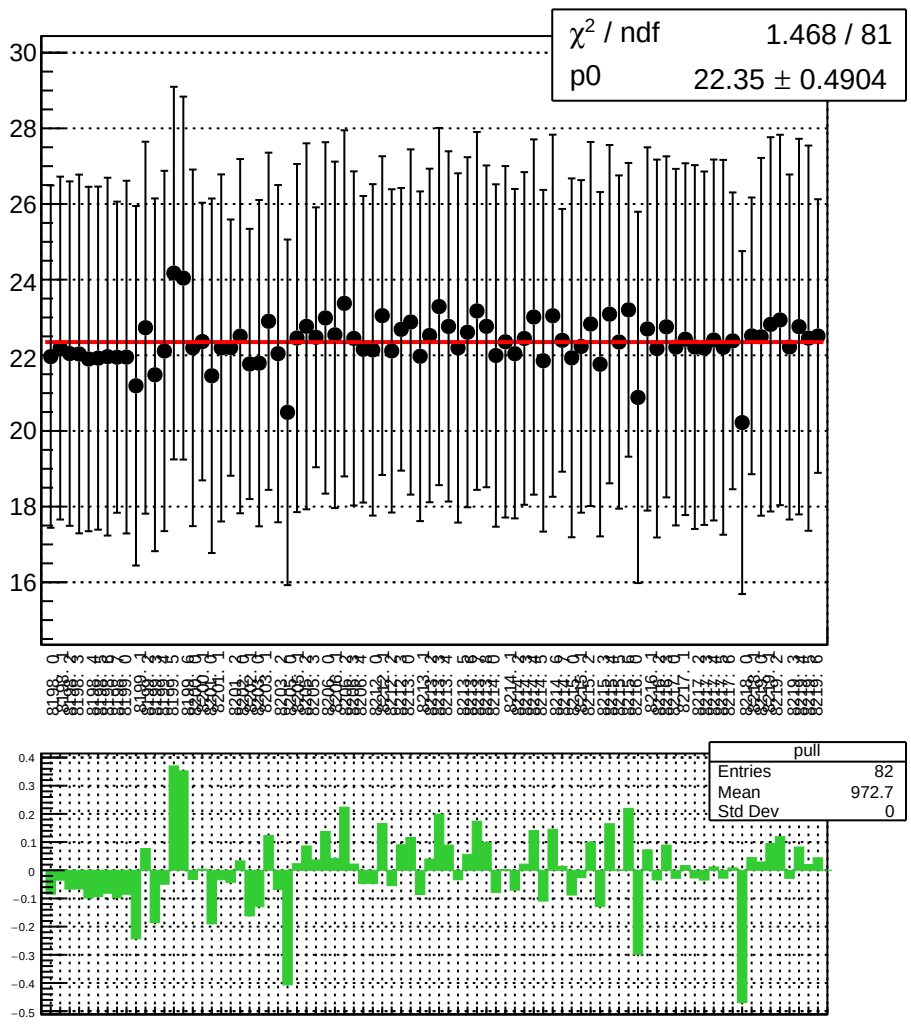

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.739 / 81
p0 34.56 ± 3.454
pull
Entries 82
Mean 189.9
Std Dev 0

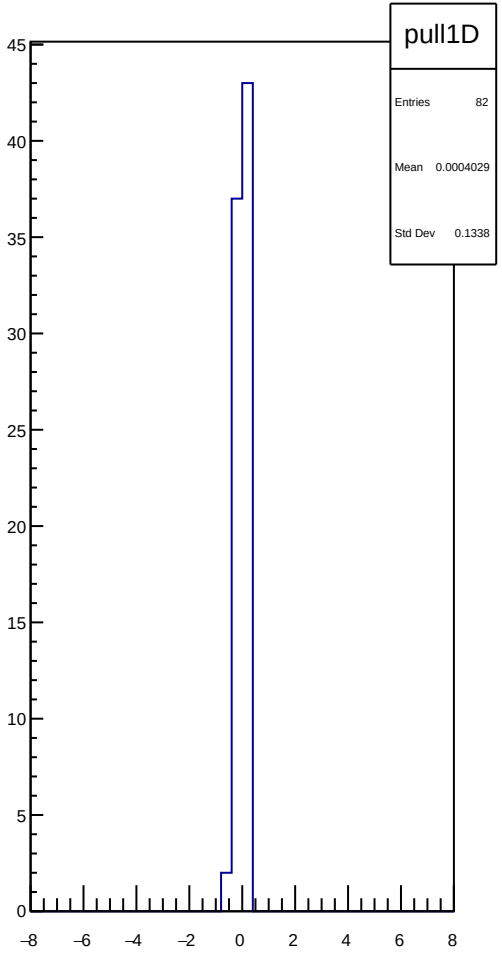

pull1D
Entries 82
Mean −0.004526
Std Dev 0.1456

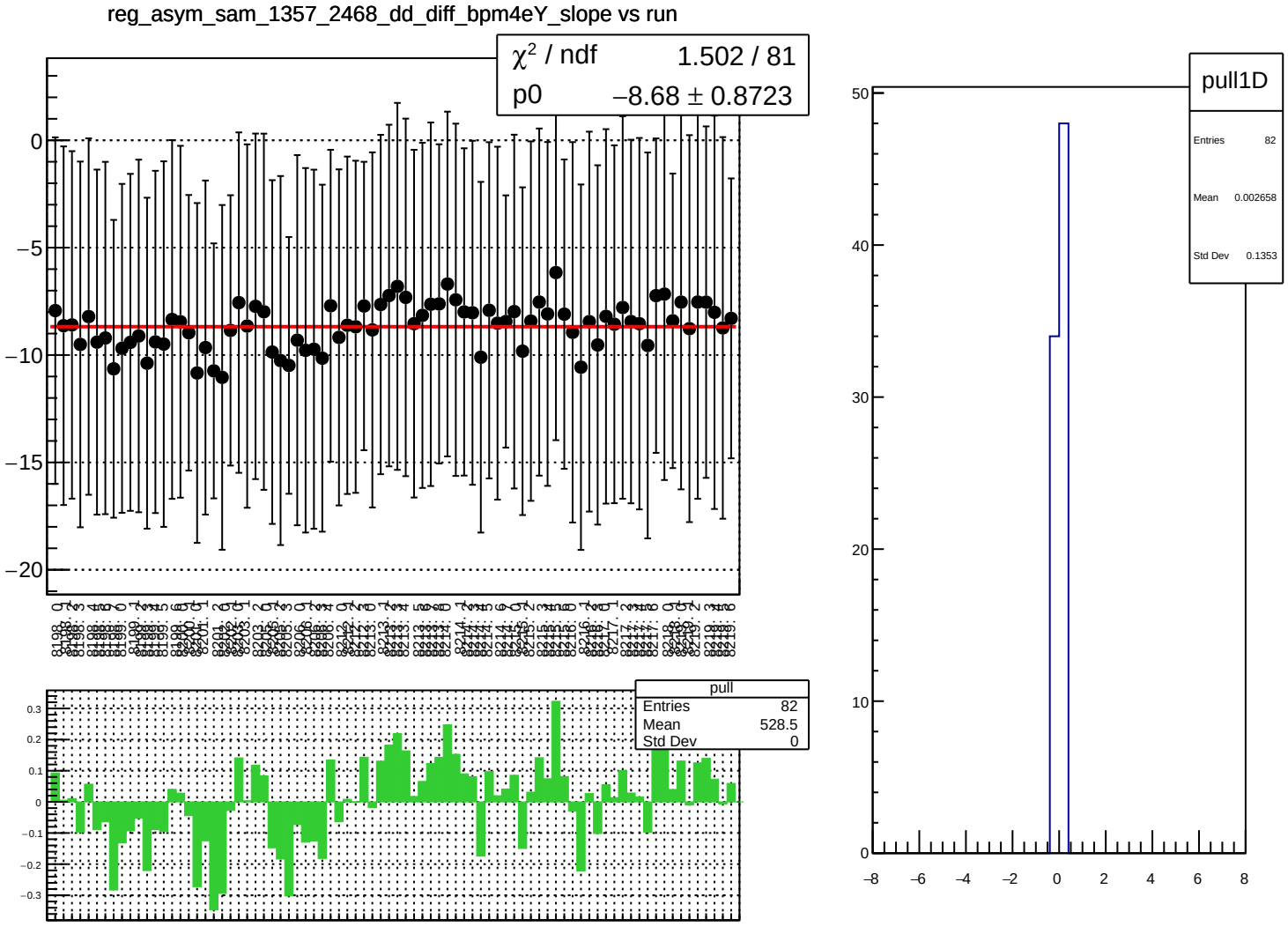

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.517 / 81
p0 0.5118 ± 0.1569
pull
Entries 82
Mean 1346
Std Dev 0
pull1D
Entries 82
Mean 0.0007166
Std Dev 0.136

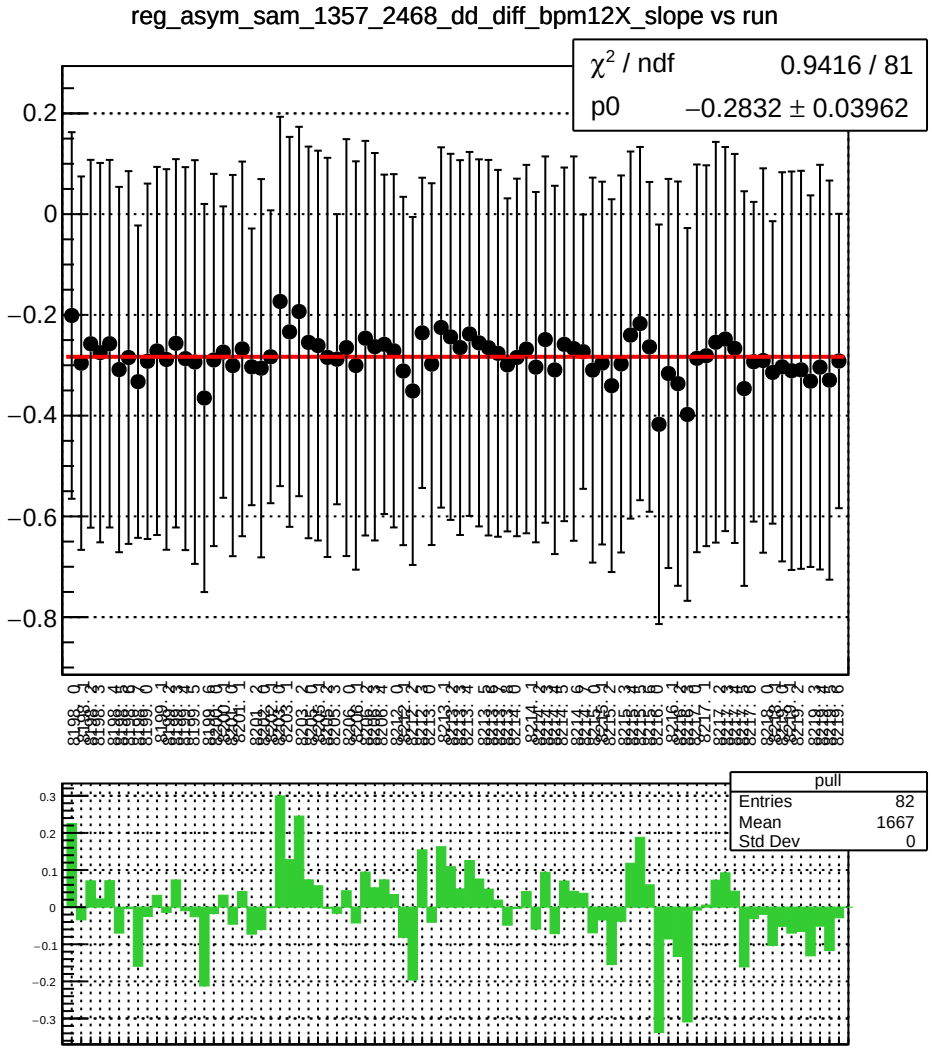

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 1.463 / 81
p0 1.033 ± 0.4895
pull
Entries 82
Mean 1.156e+04
Std Dev 0
pull1D
Entries 82
Mean −0.0001044
Std Dev 0.1336

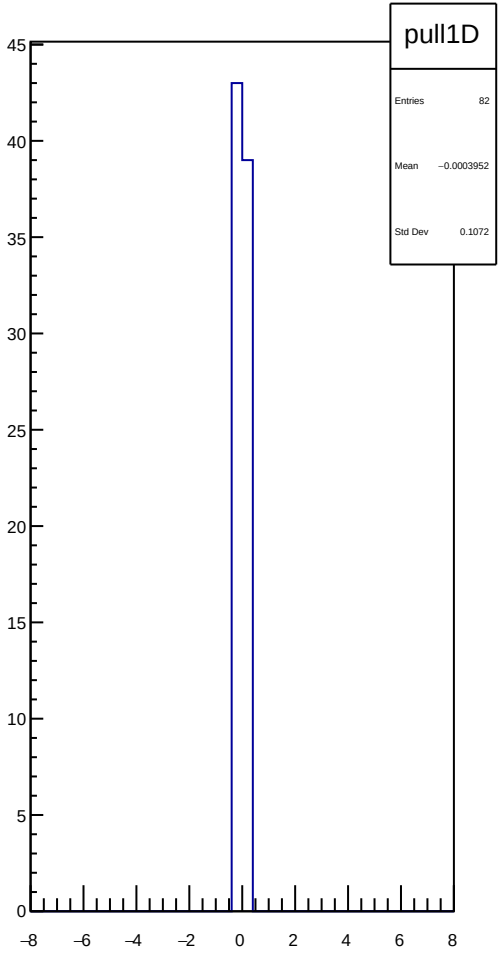

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.409 / 81
p0 3.257 ± 0.8109
pull
Entries 82
Mean 410.9
Std Dev 0
pull1D
Entries 82
Mean −0.003499
Std Dev 0.1311

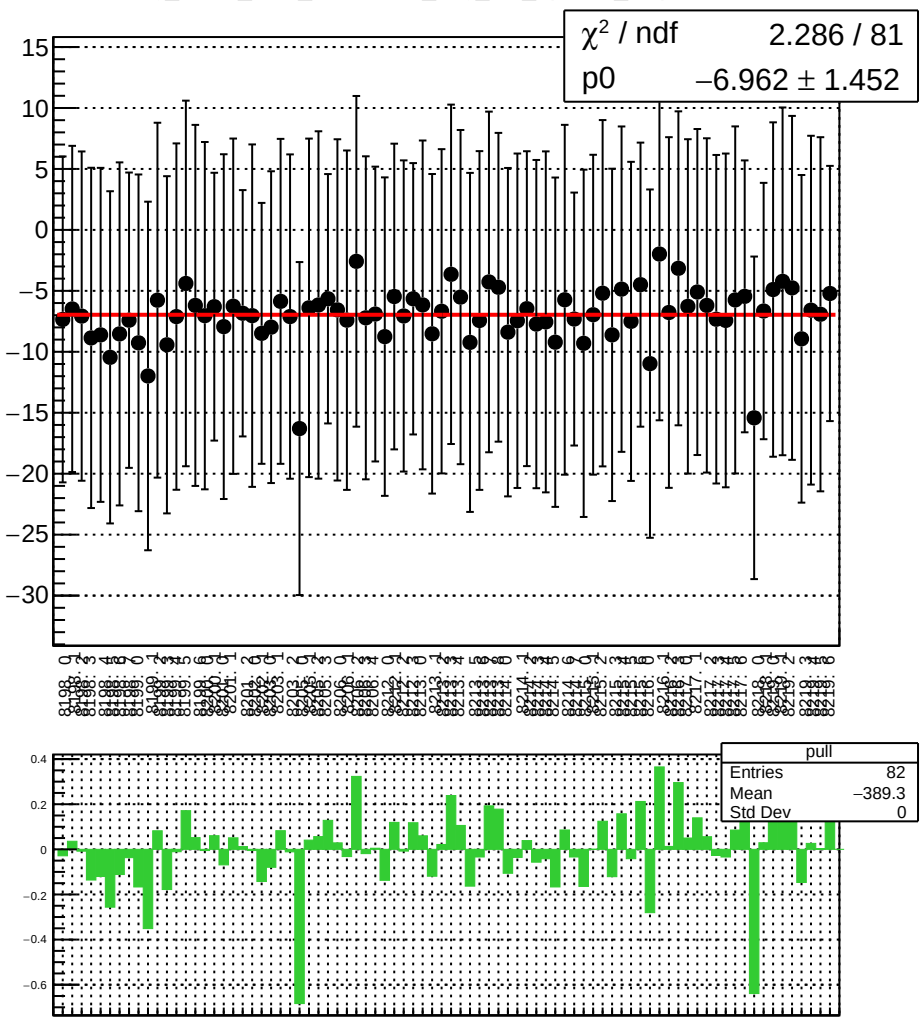

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.468 / 81
p0 22.35 ± 0.4904
pull
Entries 82
Mean 972.7
Std Dev 0

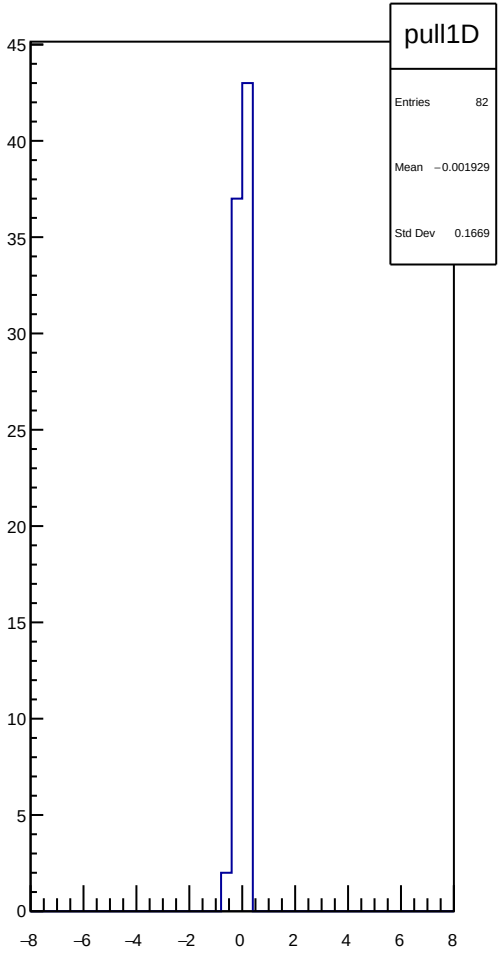

pull1D
Entries 82
Mean 0.0004029
Std Dev 0.1338

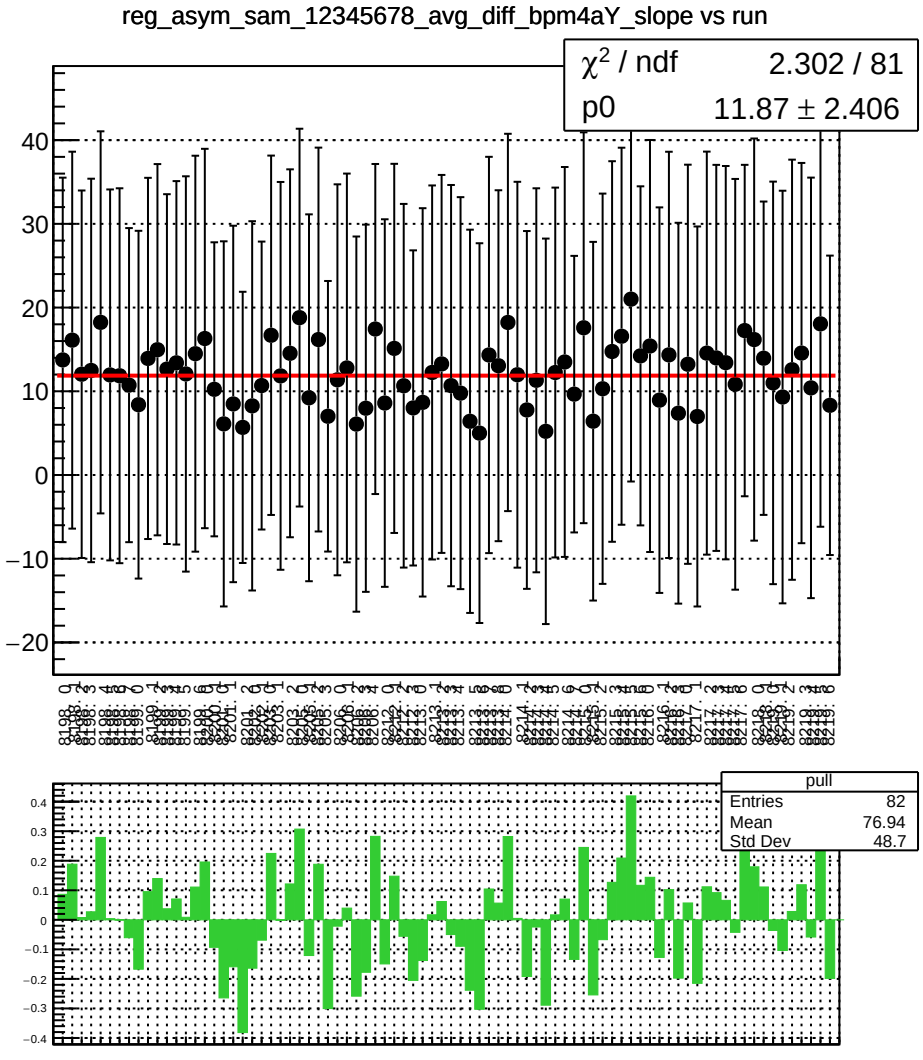

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.502 / 81
p0 −8.68 ± 0.8723
pull
Entries 82
Mean 528.5
Std Dev 0
pull1D
Entries 82
Mean 0.002658
Std Dev 0.1353

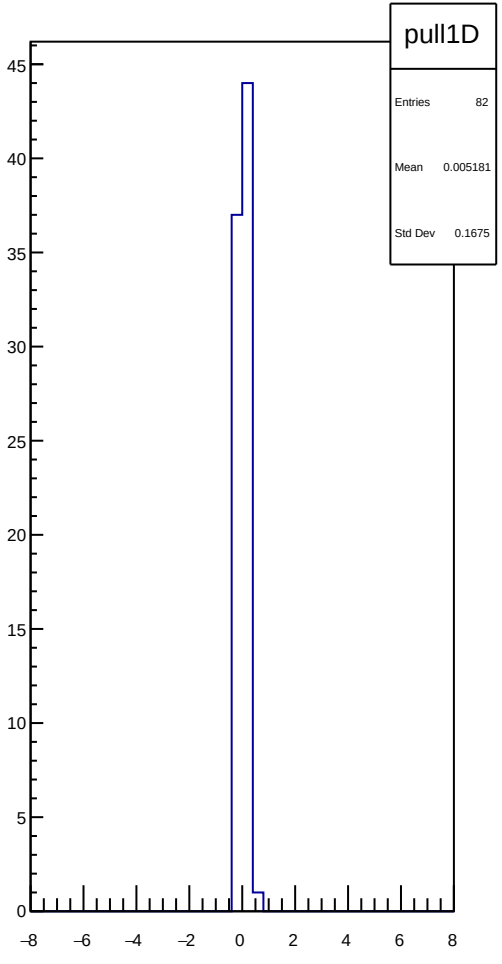

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.9416 / 81
p0 −0.2832 ± 0.03962
pull
Entries 82
Mean 1667
Std Dev 0

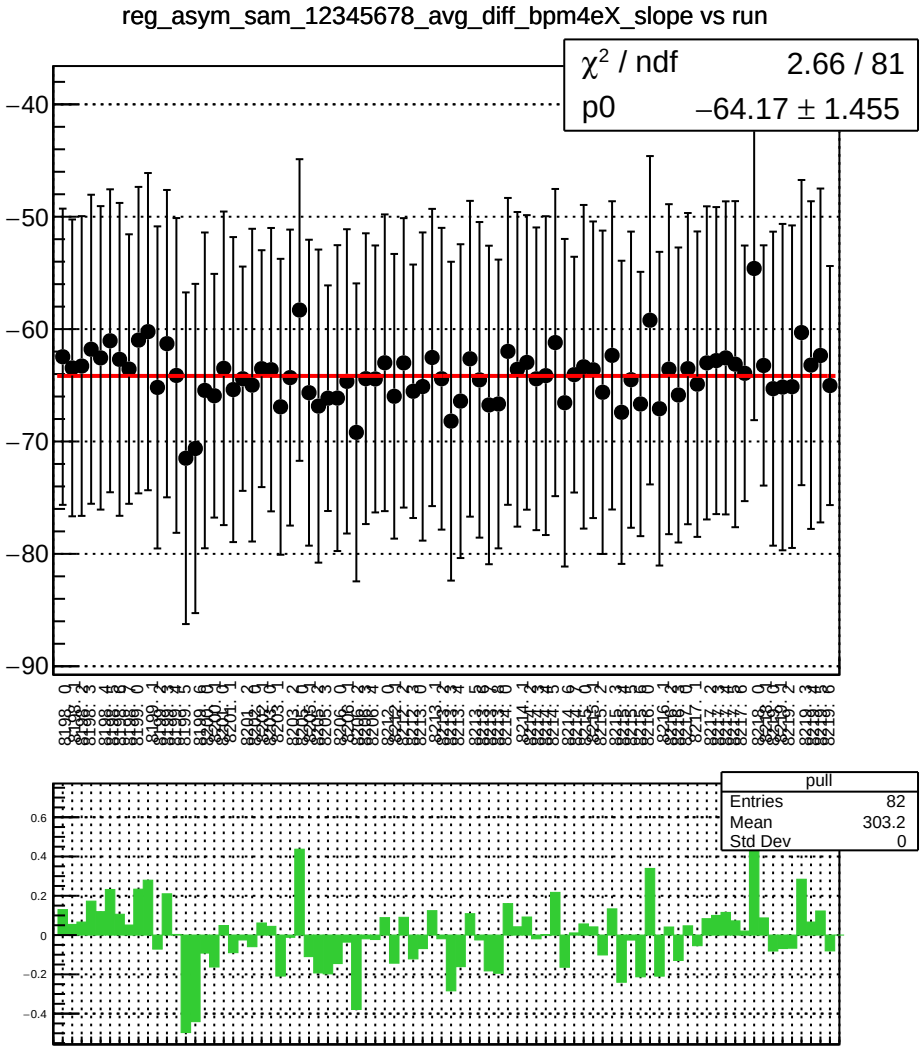

pull1D
Entries 82
Mean −0.0003952
Std Dev 0.1072

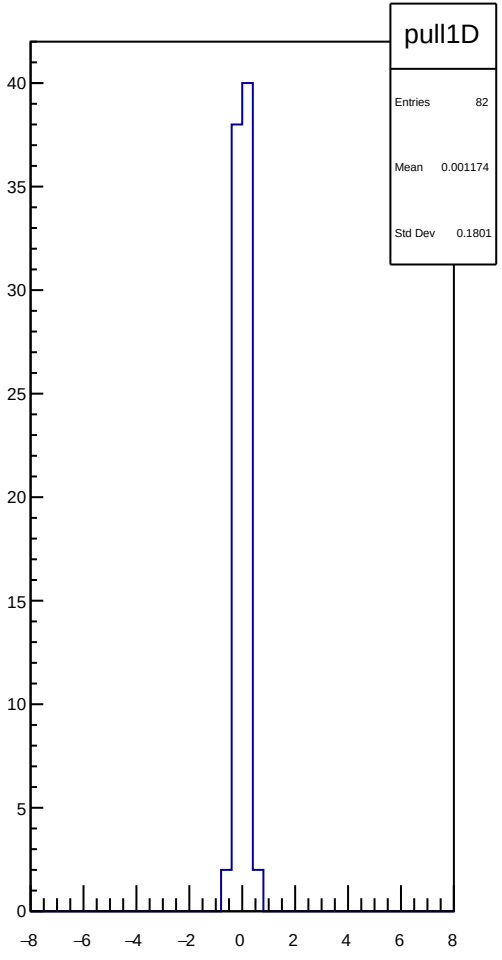

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 2.286 / 81
p0 −6.962 ± 1.452
pull
Entries 82
Mean −389.3
Std Dev 0

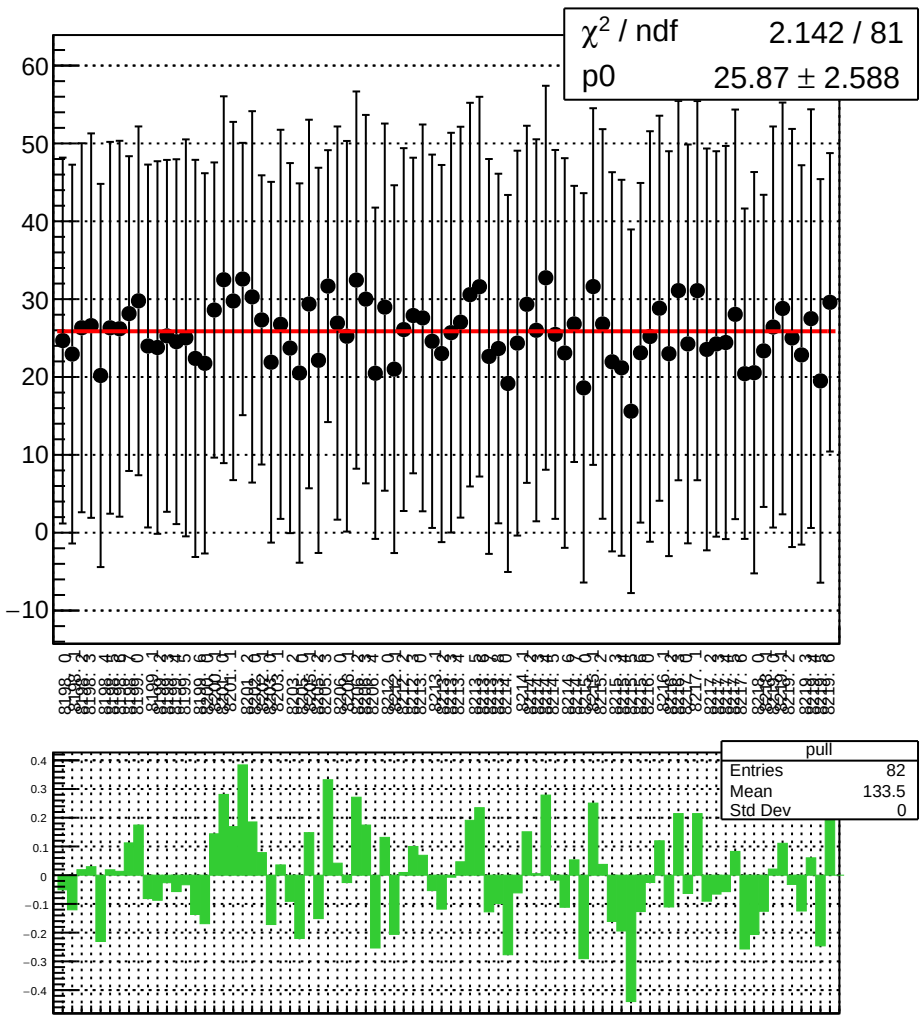

pull1D
Entries 82
Mean −0.001929
Std Dev 0.1669

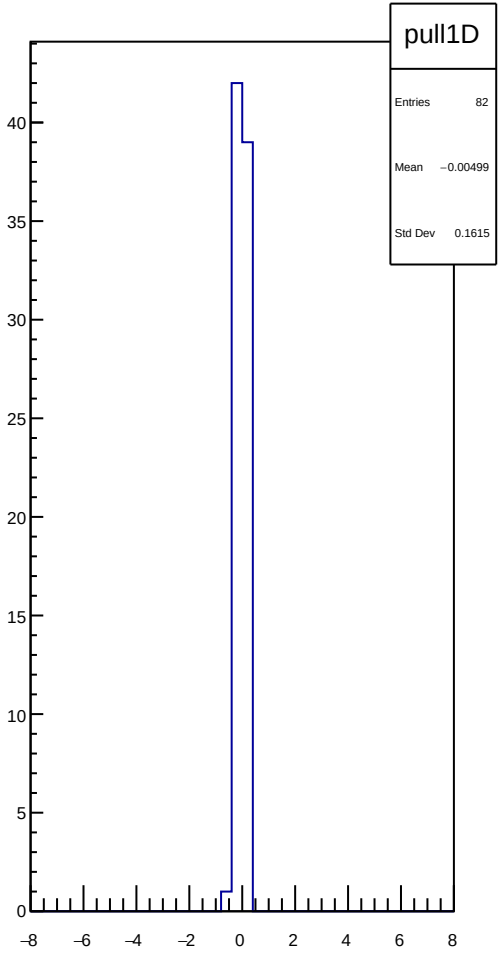

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.302 / 81
p0 11.87 ± 2.406
pull
Entries 82
Mean 76.94
Std Dev 48.7

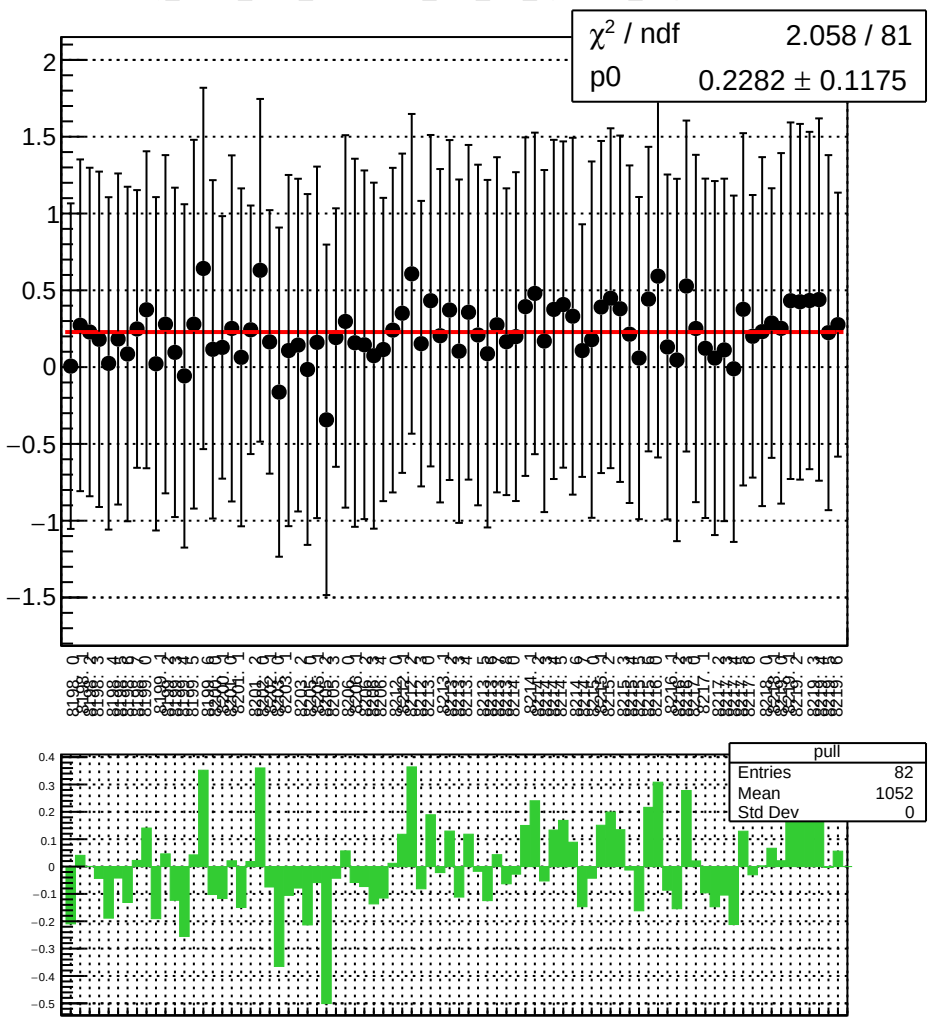

pull1D
Entries 82
Mean 0.005181
Std Dev 0.1675

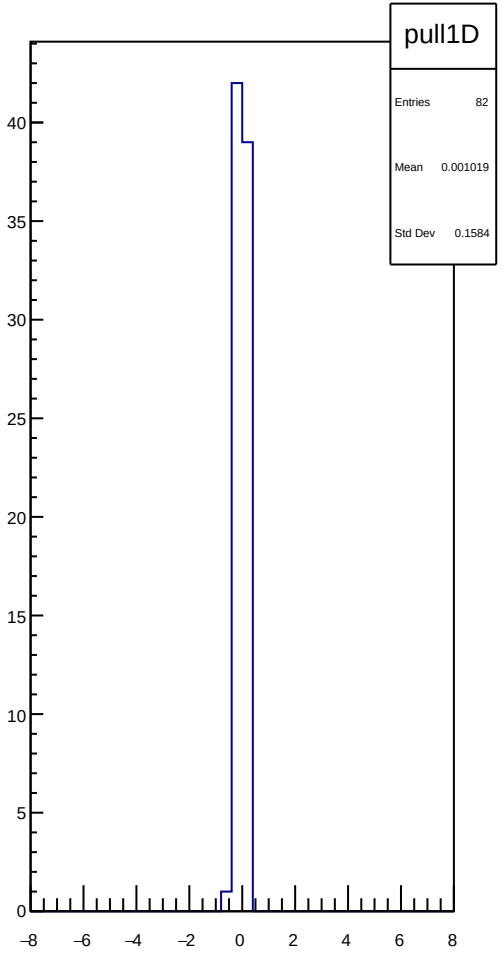

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.66 / 81
p0 −64.17 ± 1.455
pull
Entries 82
Mean 303.2
Std Dev 0

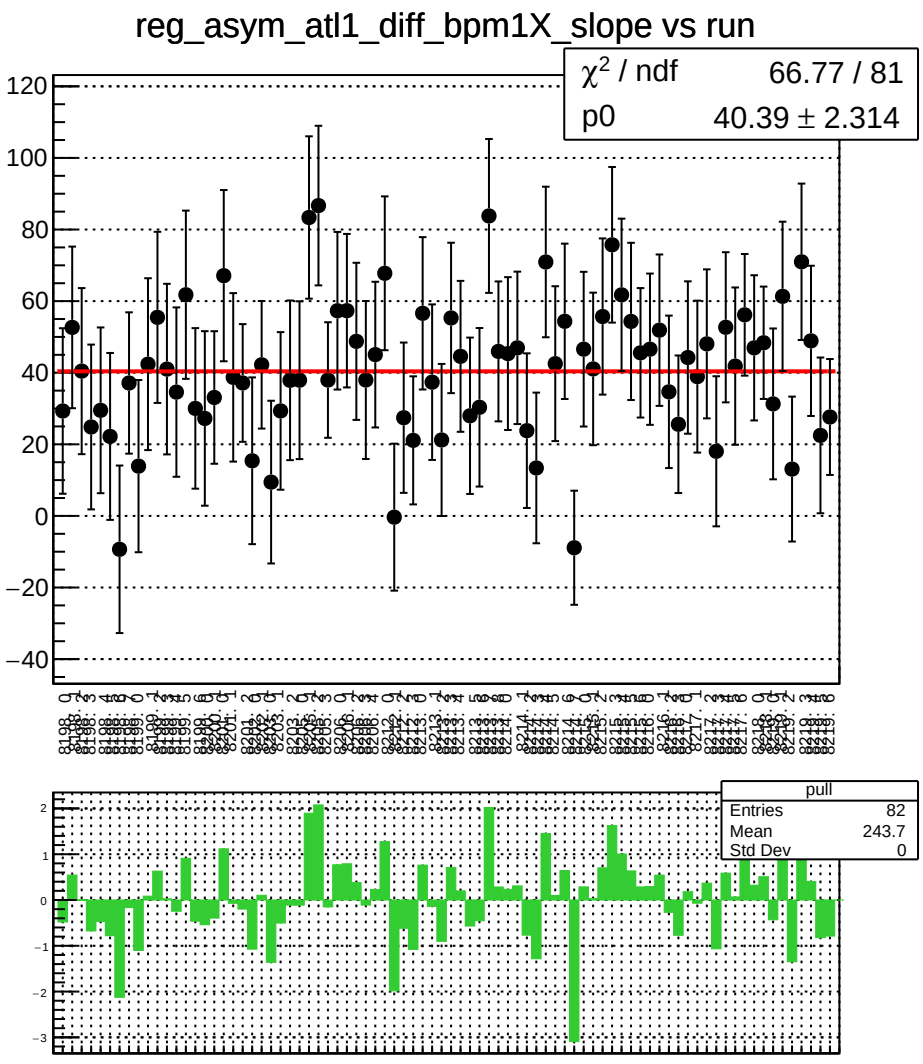

pull1D
Entries 82
Mean 0.001174
Std Dev 0.1801

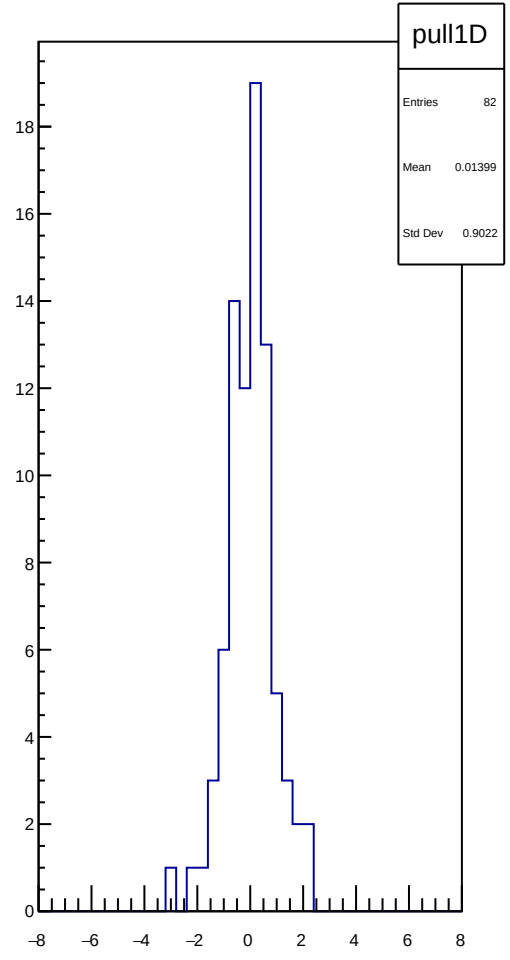

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.142 / 81
p0 25.87 ± 2.588
pull
Entries 82
Mean 133.5
Std Dev 0

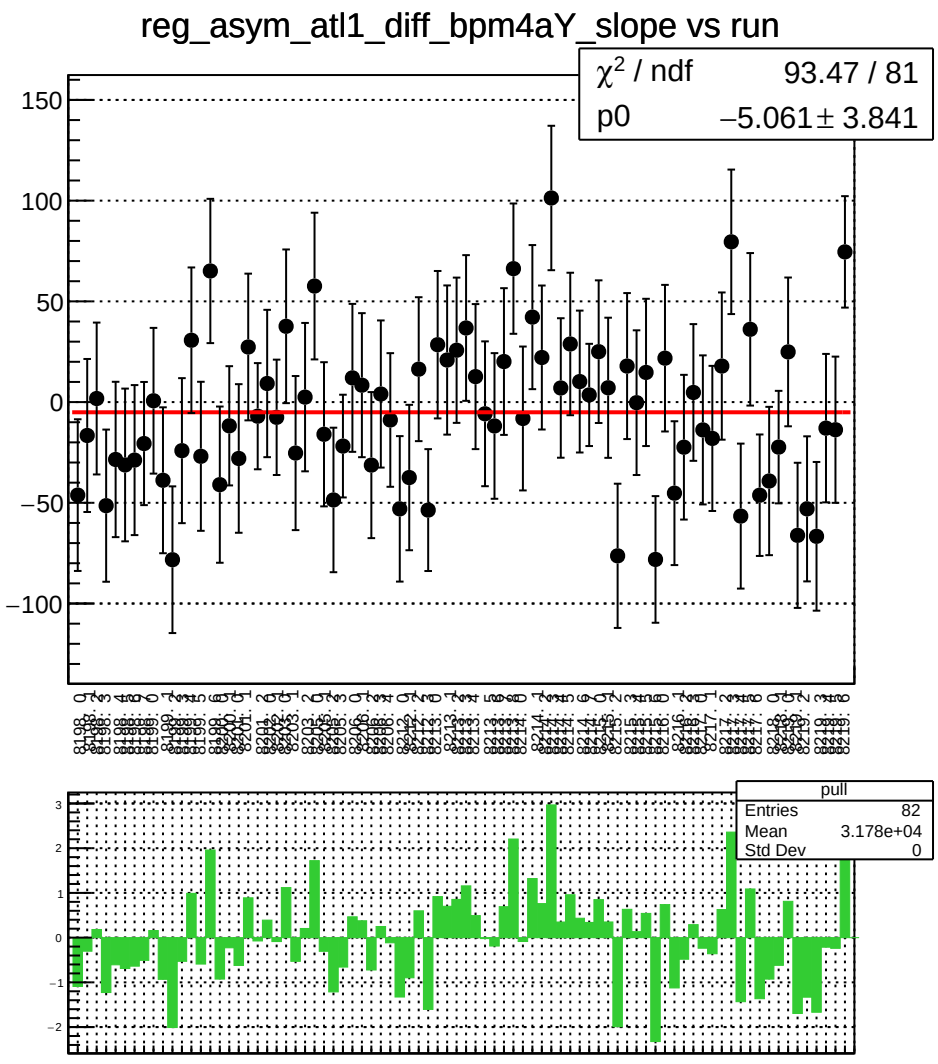

pull1D
Entries 82
Mean −0.00499
Std Dev 0.1615

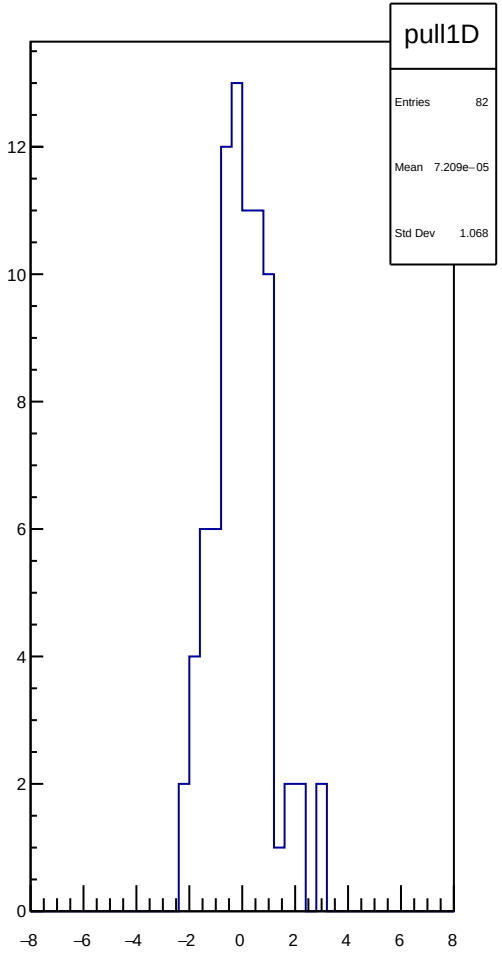

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 2.058 / 81
p0 0.2282 ± 0.1175
pull
Entries 82
Mean 1052
Std Dev 0

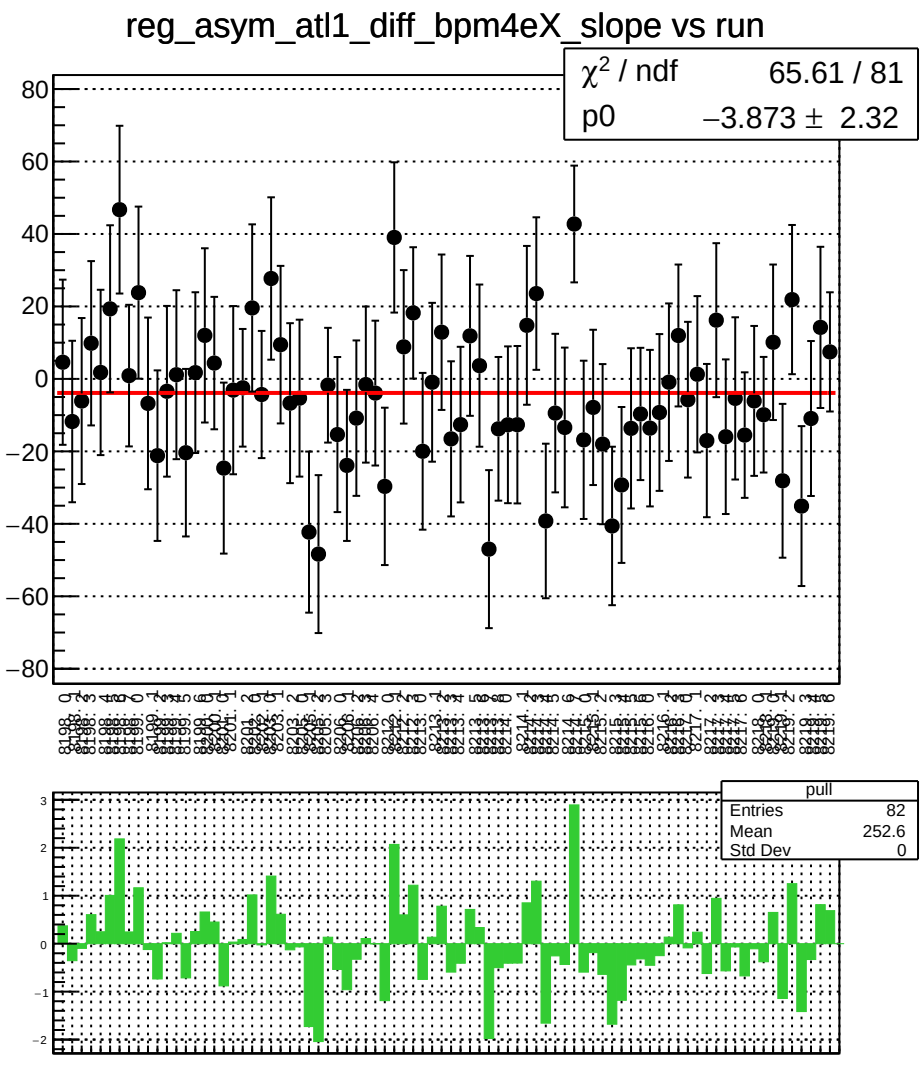

pull1D
Entries 82
Mean 0.001019
Std Dev 0.1584

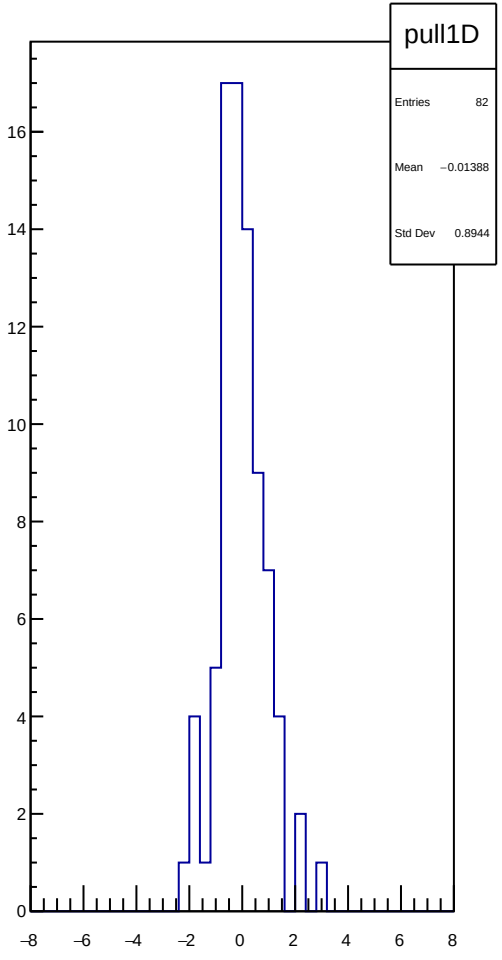

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 66.77 / 81
p0 40.39 ± 2.314
pull
Entries 82
Mean 243.7
Std Dev 0

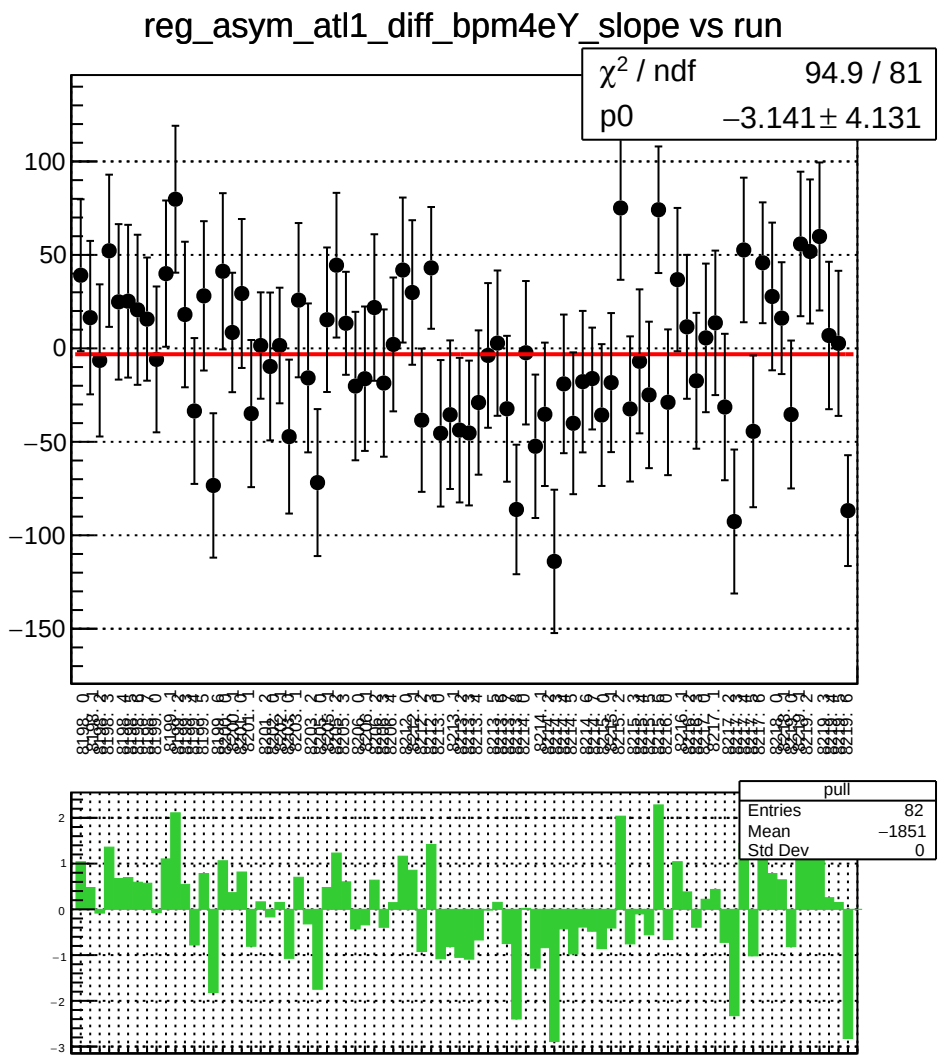

pull1D
Entries 82
Mean 0.01399
Std Dev 0.9022

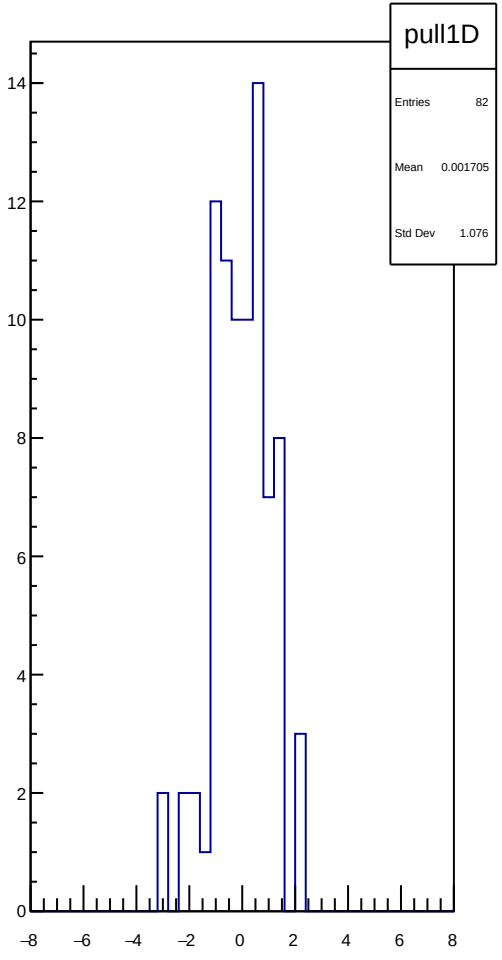

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 93.47 / 81
p0 −5.061 ± 3.841
150
100
50
0
−50
−100
pull
Entries 82
Mean 3.178e+04
Std Dev 0
3
2
1
0
−1
−2

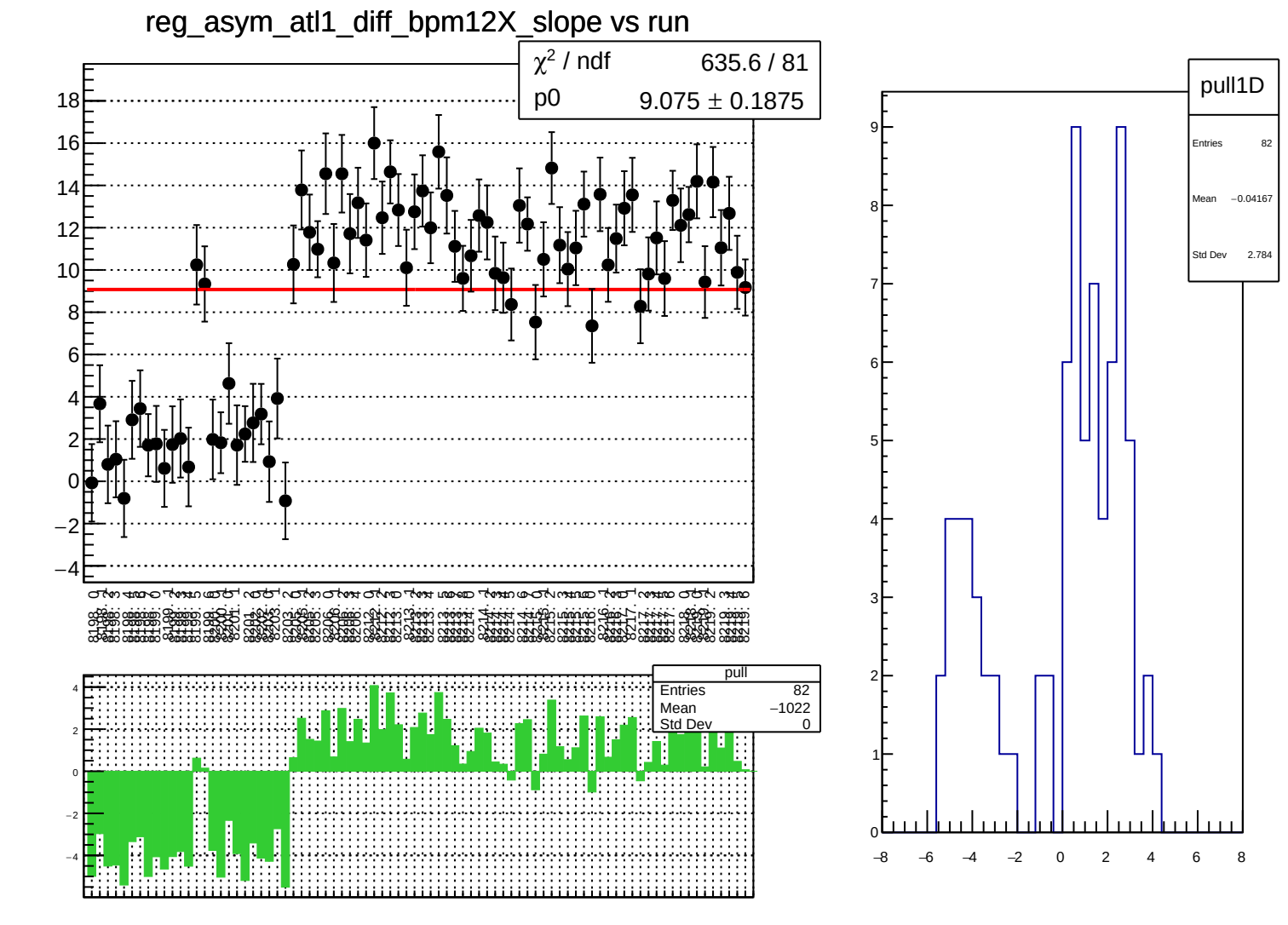

pull1D
Entries 82
Mean 7.209e−05
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

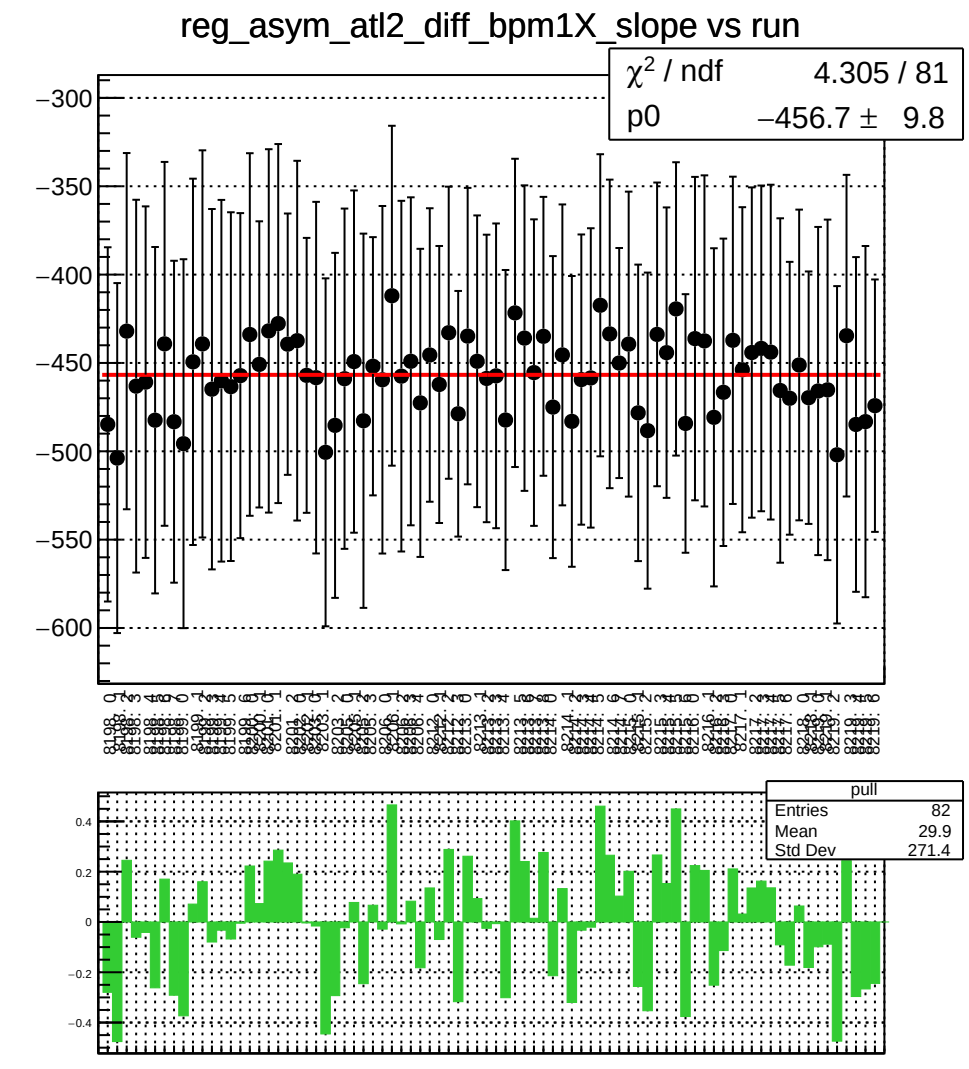

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 65.61 / 81
p0 −3.873 ± 2.32
pull
Entries 82
Mean 252.6
Std Dev 0

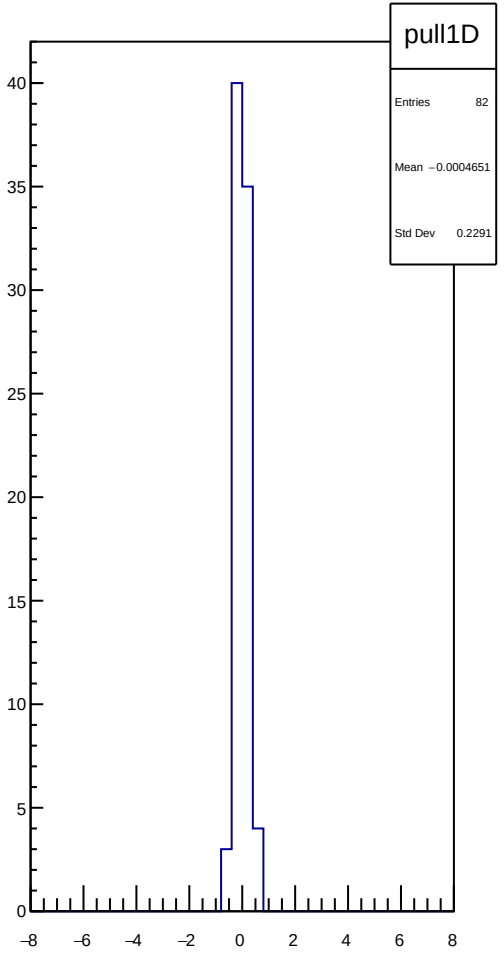

pull1D
Entries 82
Mean −0.01388
Std Dev 0.8944

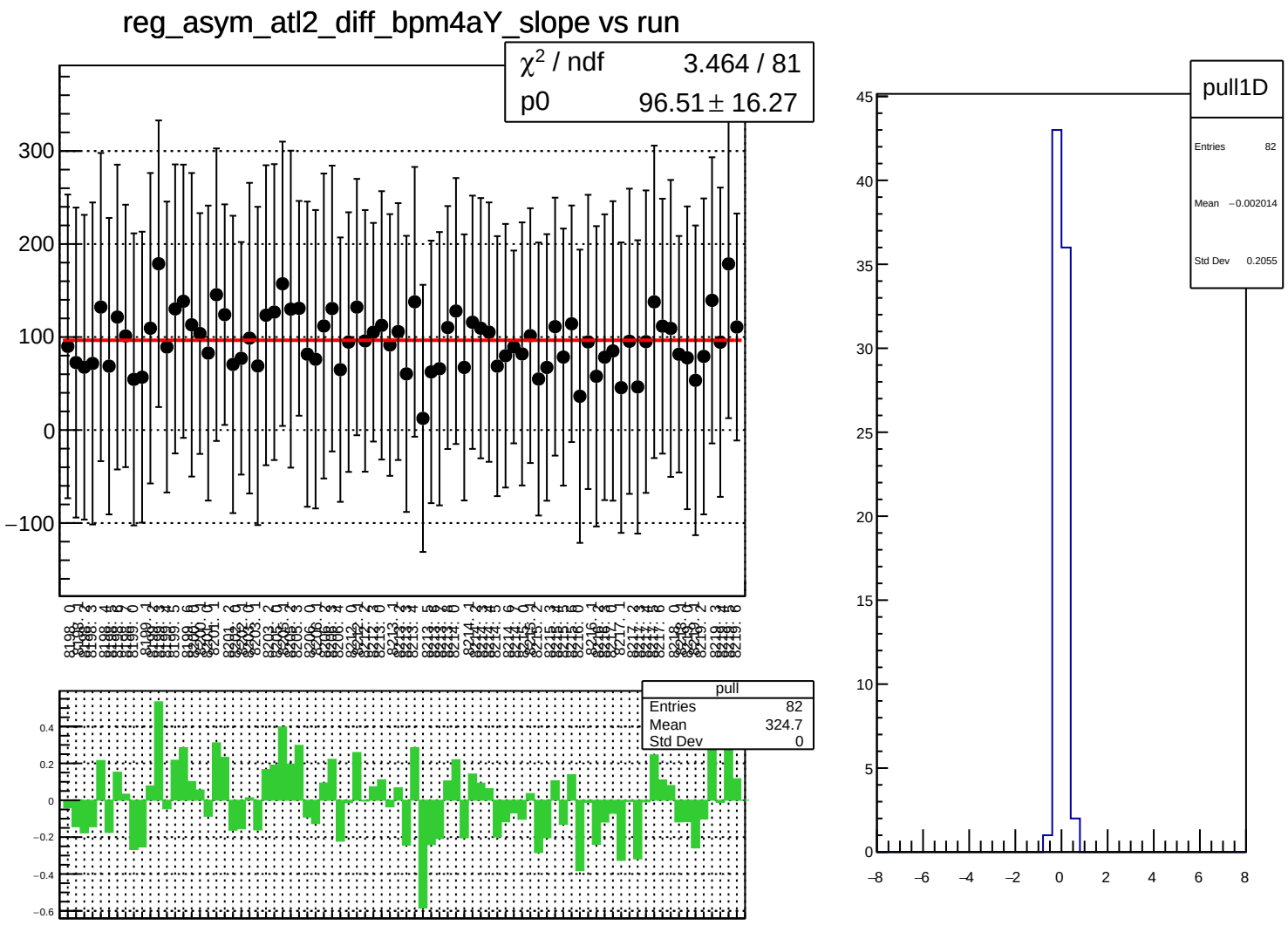

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 94.9 / 81
p0 −3.141 ± 4.131
pull
Entries 82
Mean −1851
Std Dev 0

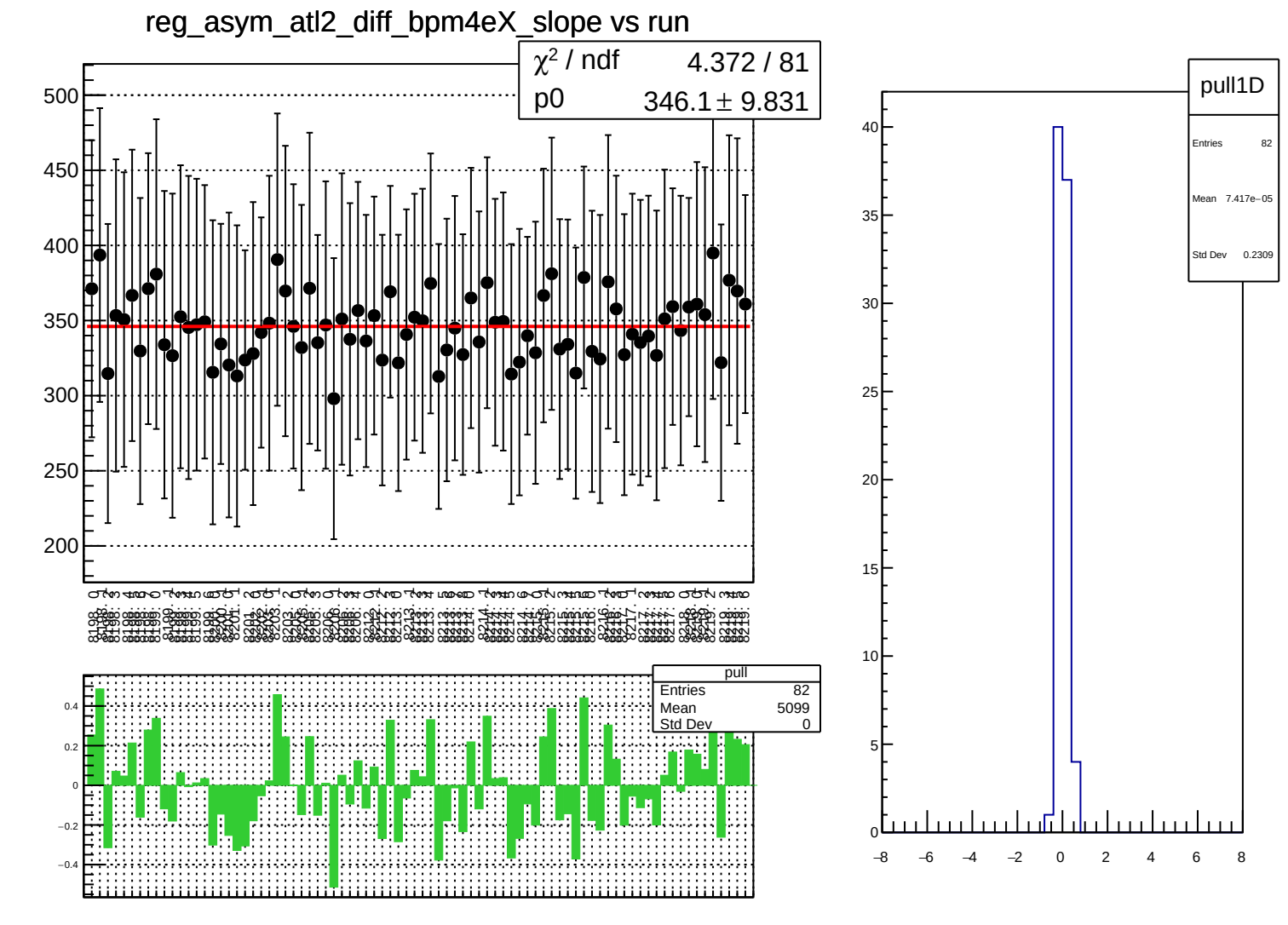

pull1D
Entries 82
Mean 0.001705
Std Dev 1.076

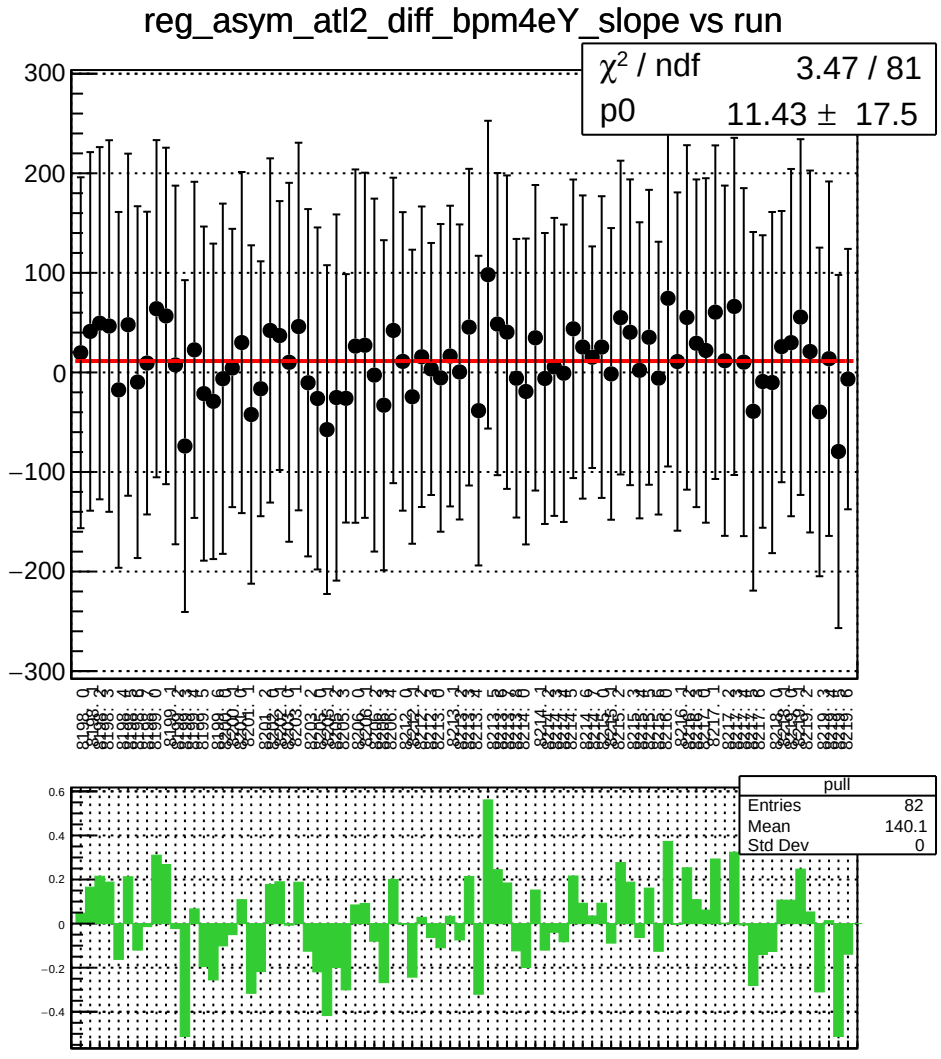

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 635.6 / 81
p0 9.075 ± 0.1875
pull
Entries 82
Mean −1022
Std Dev 0
pull1D
Entries 82
Mean −0.04167
Std Dev 2.784

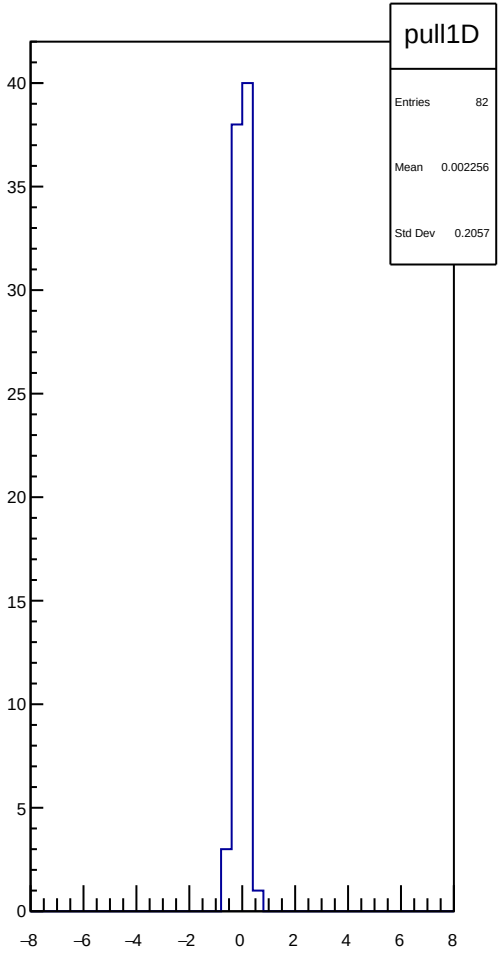

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 4.305 / 81
p0 −456.7 ± 9.8
pull
Entries 82
Mean 29.9
Std Dev 271.4

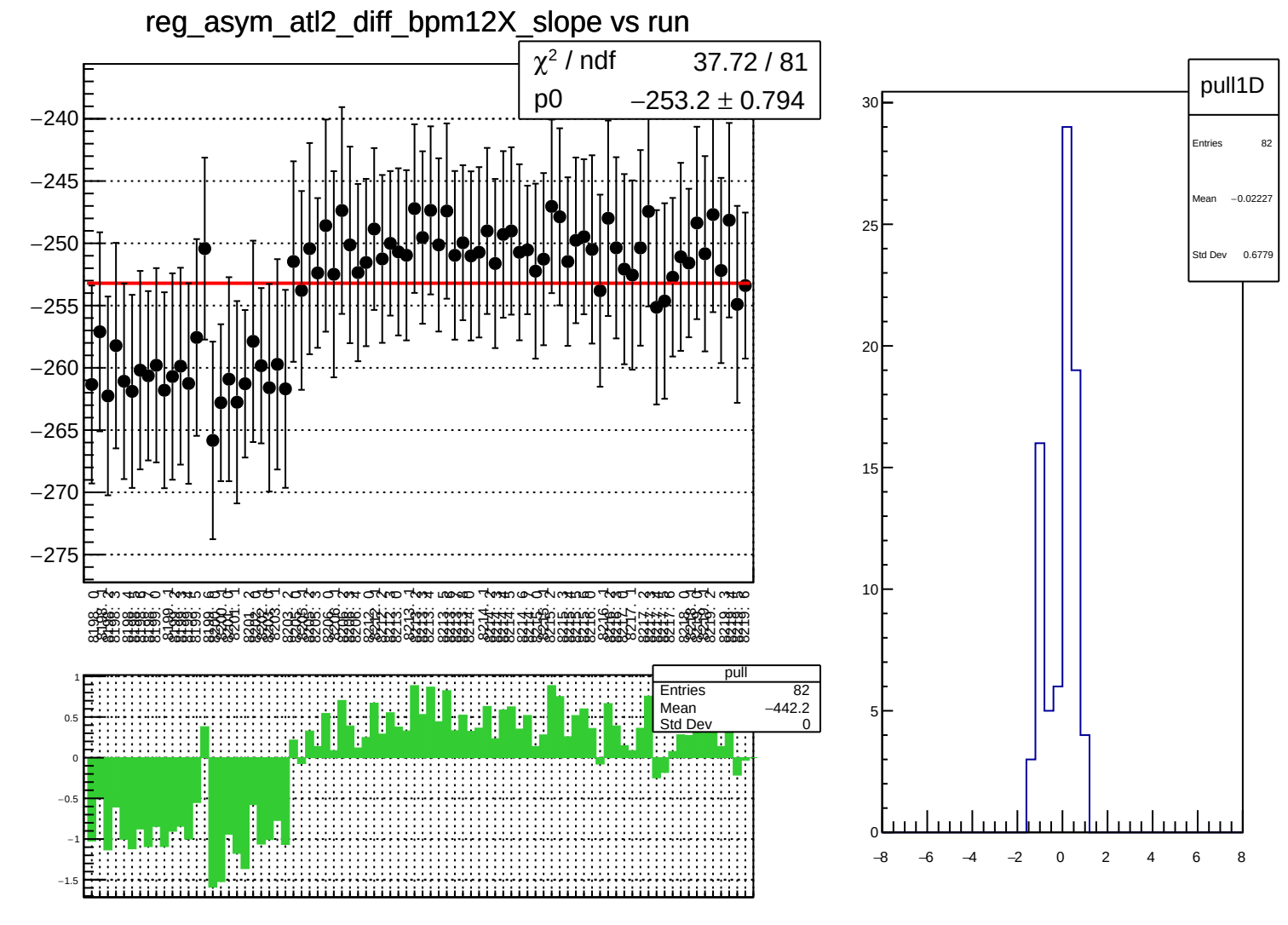

pull1D
Entries 82
Mean −0.0004651
Std Dev 0.2291

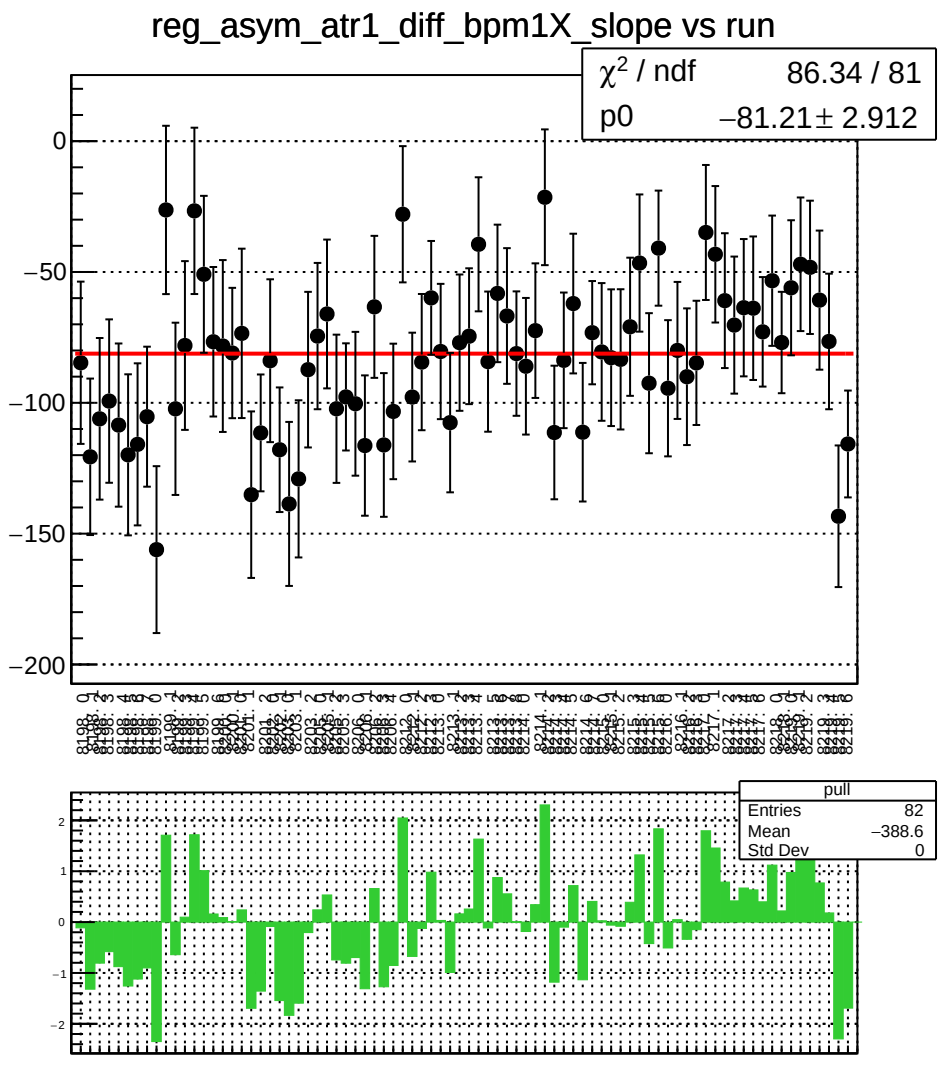

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 3.464 / 81
p0 96.51 ± 16.27
300
200
100
0
−100
pull
Entries 82
Mean 324.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean −0.002014
Std Dev 0.2055
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

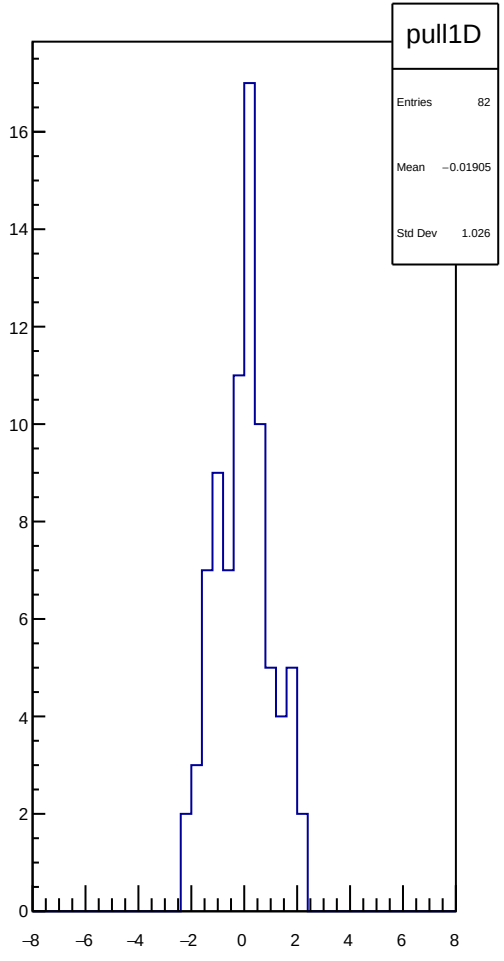

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 4.372 / 81
p0 346.1 ± 9.831
pull
Entries 82
Mean 5099
Std Dev 0
pull1D
Entries 82
Mean 7.417e−05
Std Dev 0.2309

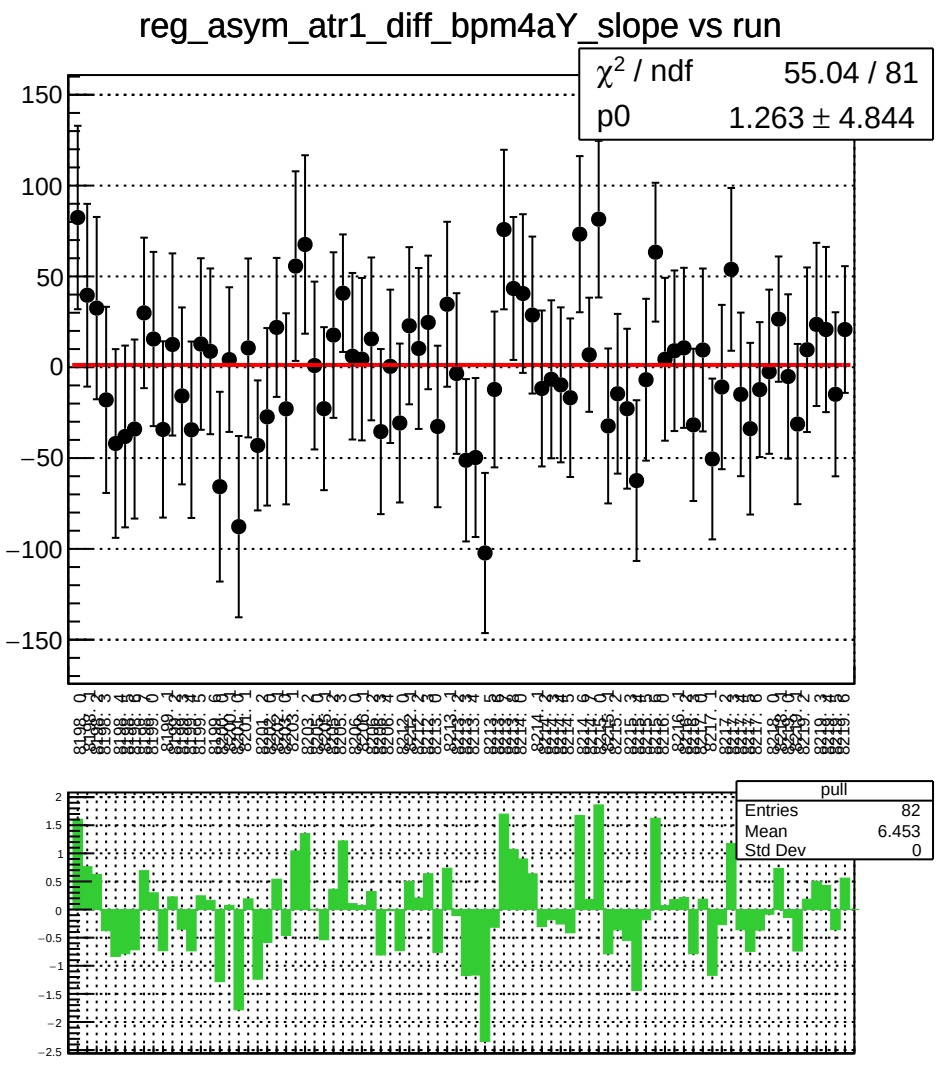

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 3.47 / 81
p0 11.43 ± 17.5
pull
Entries 82
Mean 140.1
Std Dev 0

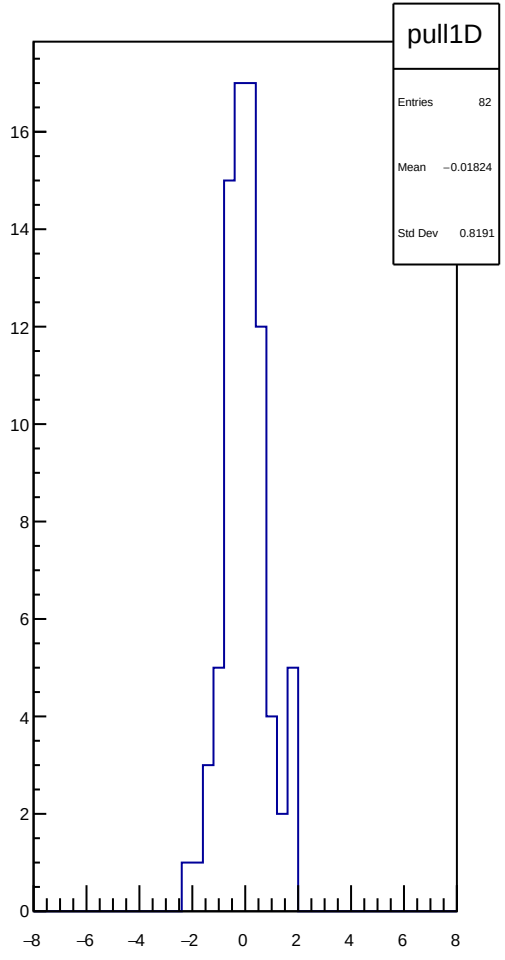

pull1D
Entries 82
Mean 0.002256
Std Dev 0.2057

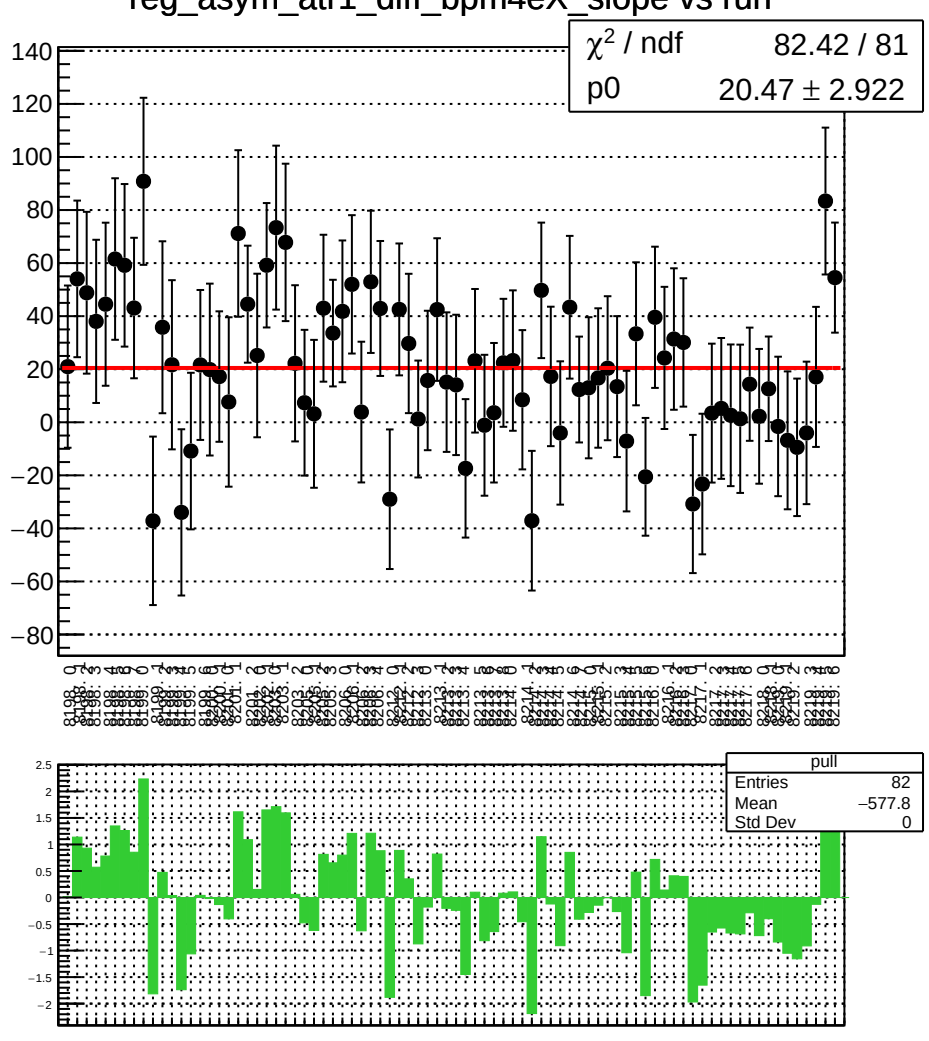

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 37.72 / 81
p0 −253.2 ± 0.794
−240
−245
−250
−255
−260
−265
−270
−275
pull
Entries 82
Mean −442.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.02227
Std Dev 0.6779
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

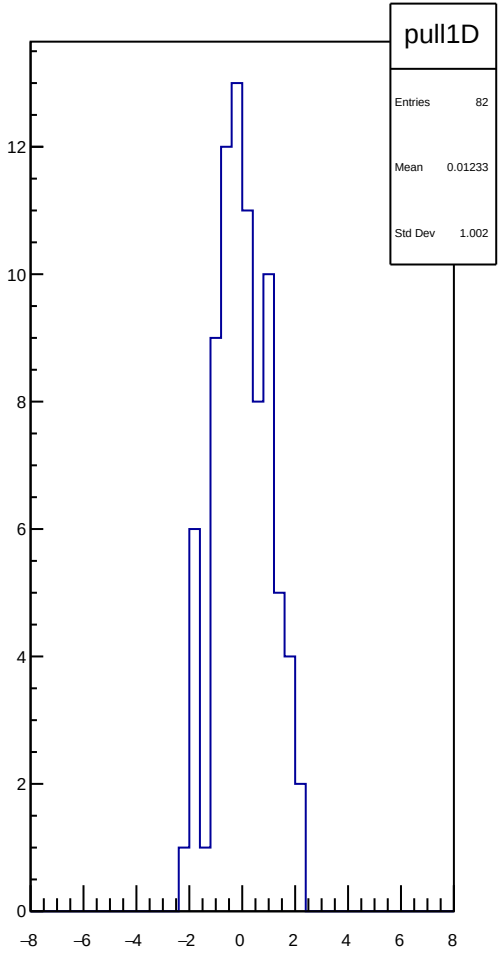

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 86.34 / 81
p0 −81.21 ± 2.912
0
−50
−100
−150
−200
pull
Entries 82
Mean −388.6
Std Dev 0
2
1
0
−1
−2

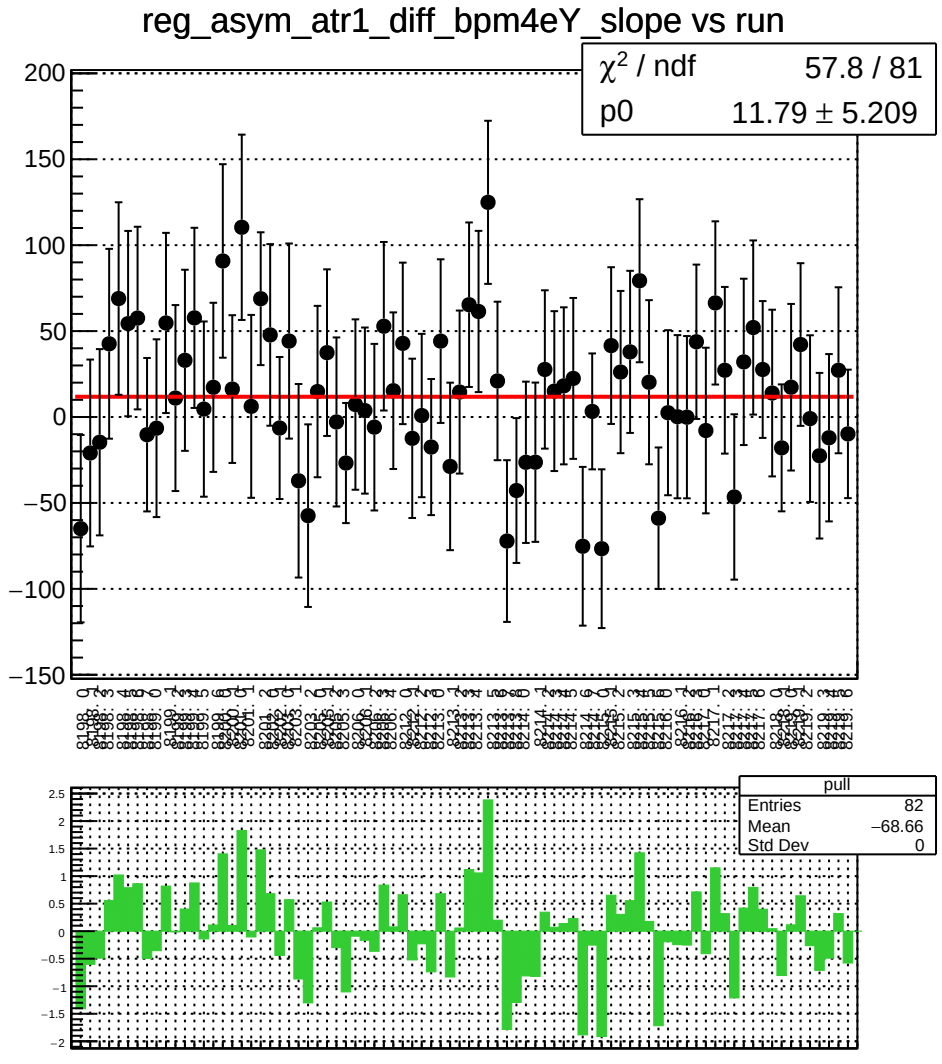

pull1D
Entries 82
Mean −0.01905
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

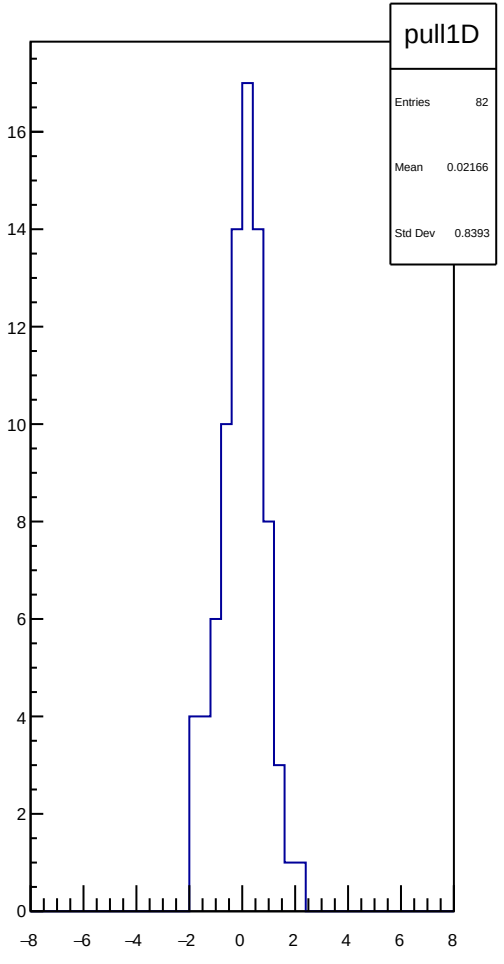

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 55.04 / 81
p0 1.263 ± 4.844
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 6.453
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

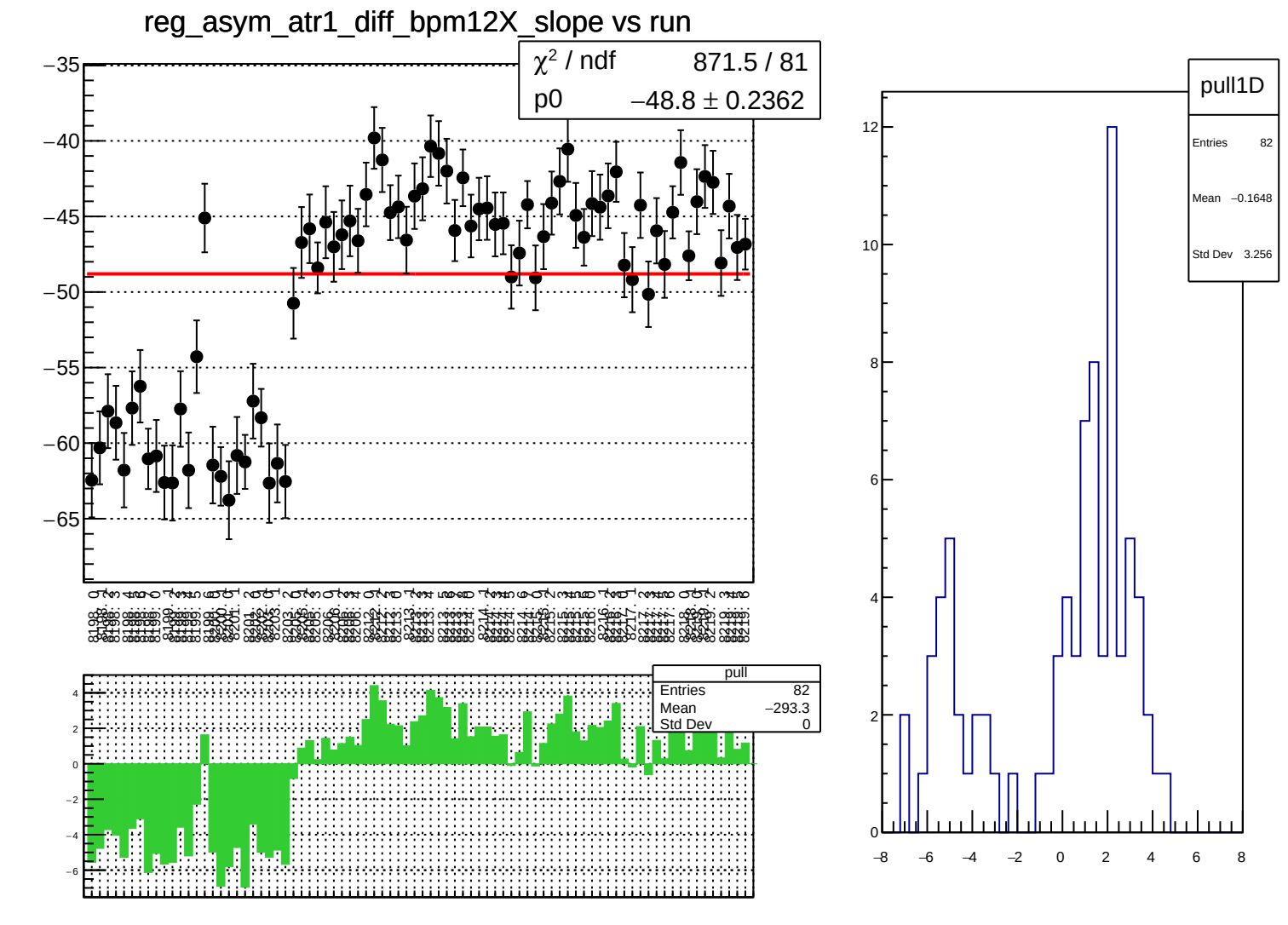

pull1D
Entries 82
Mean −0.01824
Std Dev 0.8191
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

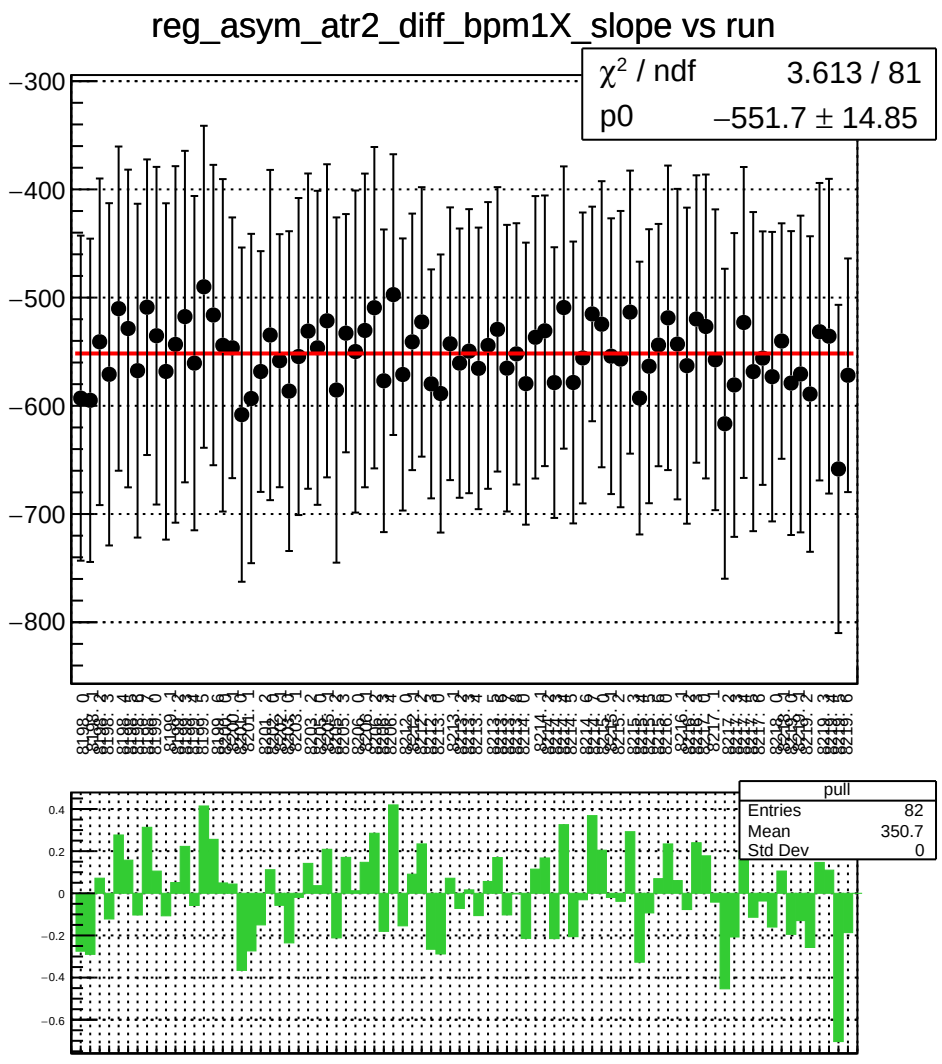

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 82.42 / 81
p0 20.47 ± 2.922
pull
Entries 82
Mean −577.8
Std Dev 0

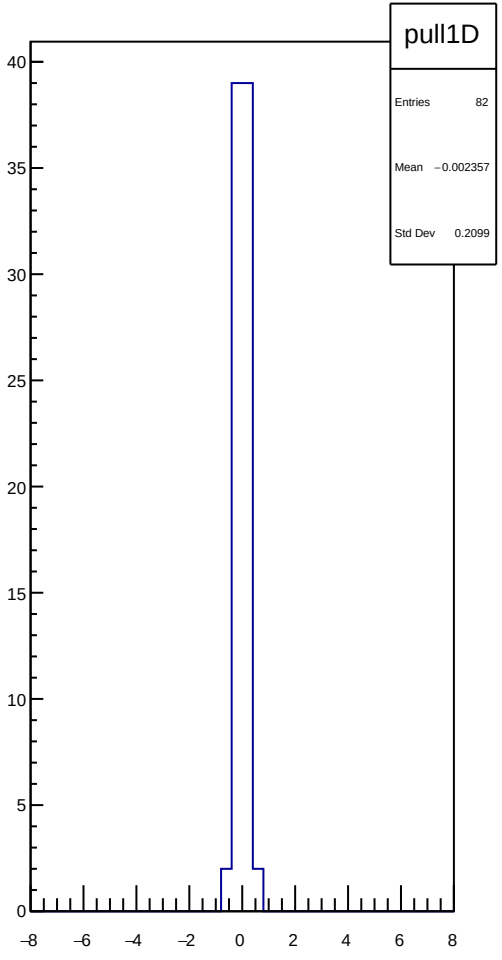

pull1D
Entries 82
Mean 0.01233
Std Dev 1.002

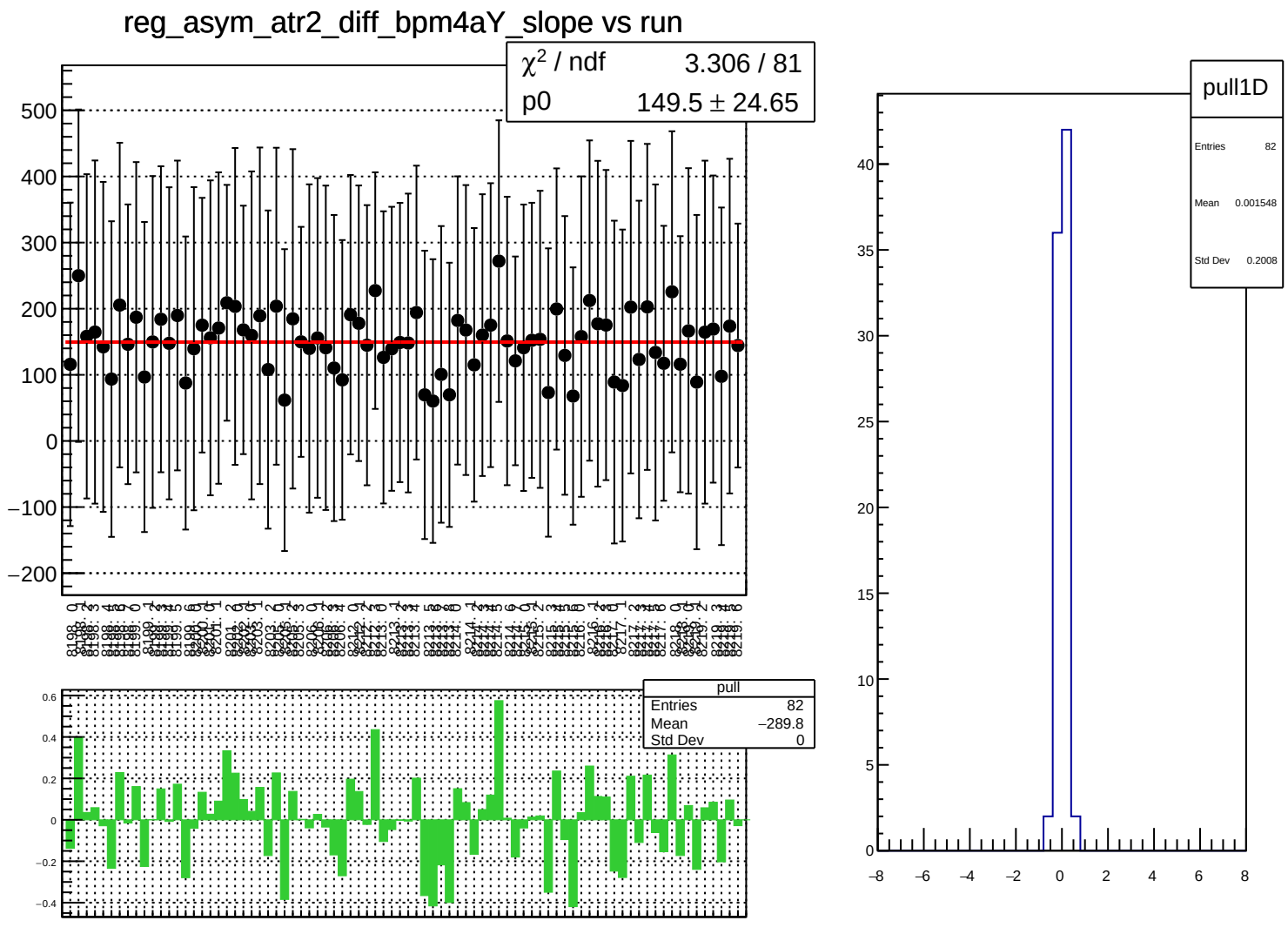

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 57.8 / 81
p0 11.79 ± 5.209
pull
Entries 82
Mean −68.66
Std Dev 0

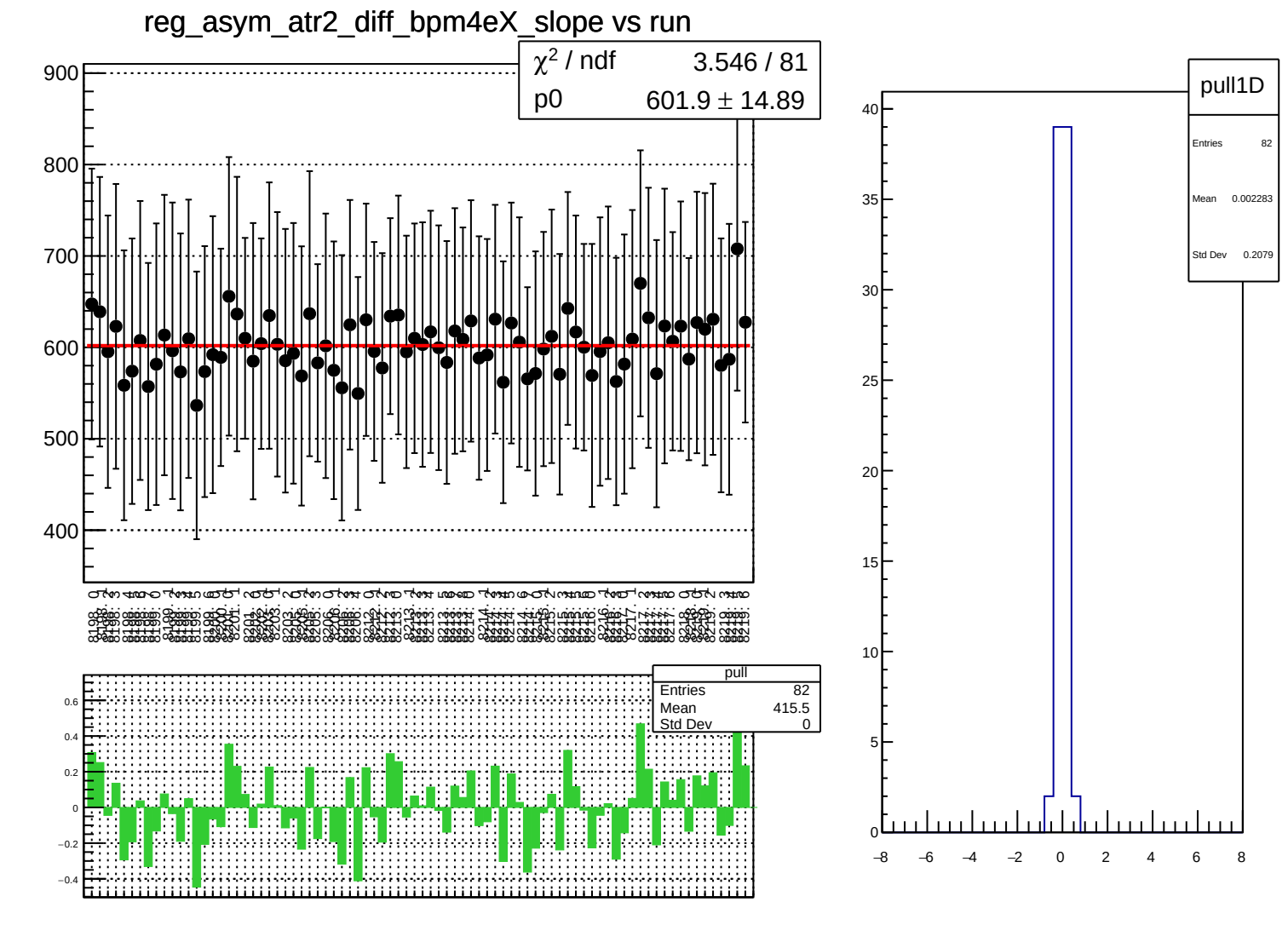

pull1D
Entries 82
Mean 0.02166
Std Dev 0.8393

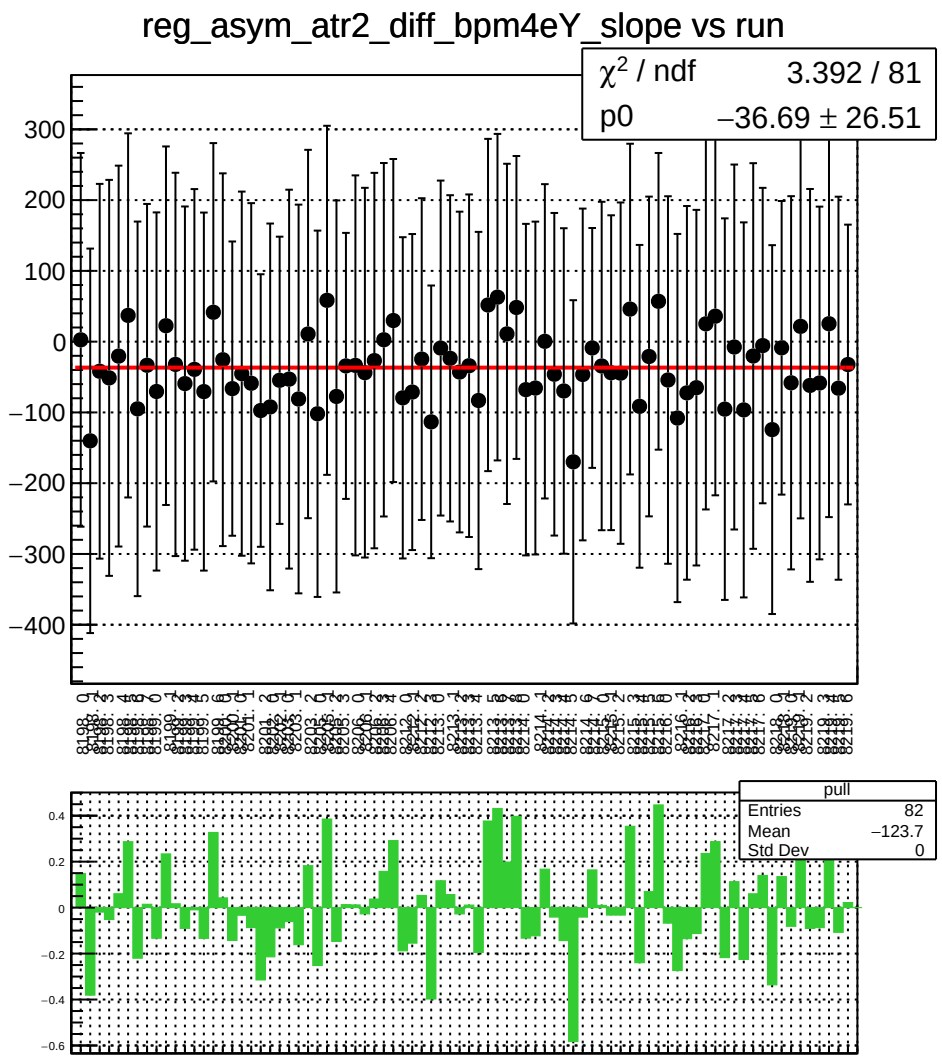

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 871.5 / 81
p0 −48.8 ± 0.2362
pull
Entries 82
Mean −293.3
Std Dev 0
pull1D
Entries 82
Mean −0.1648
Std Dev 3.256

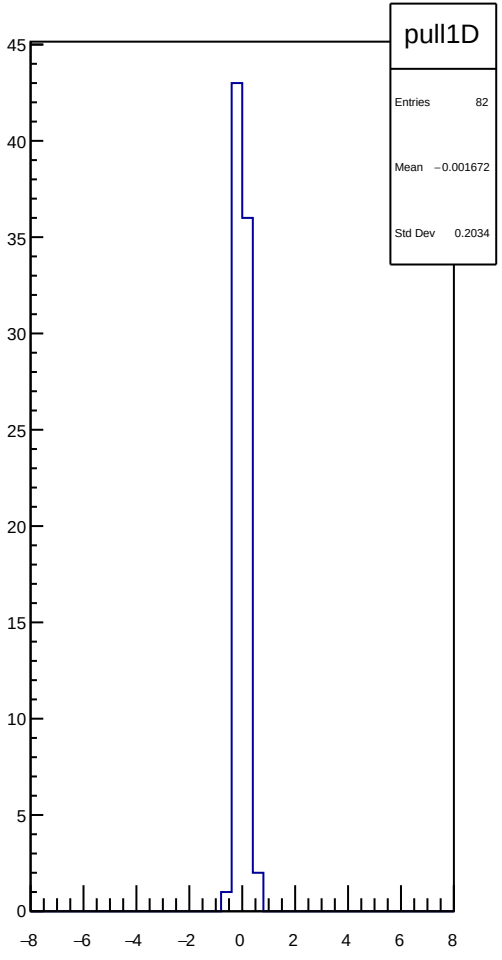

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 3.613 / 81
p0 −551.7 ± 14.85
pull
Entries 82
Mean 350.7
Std Dev 0

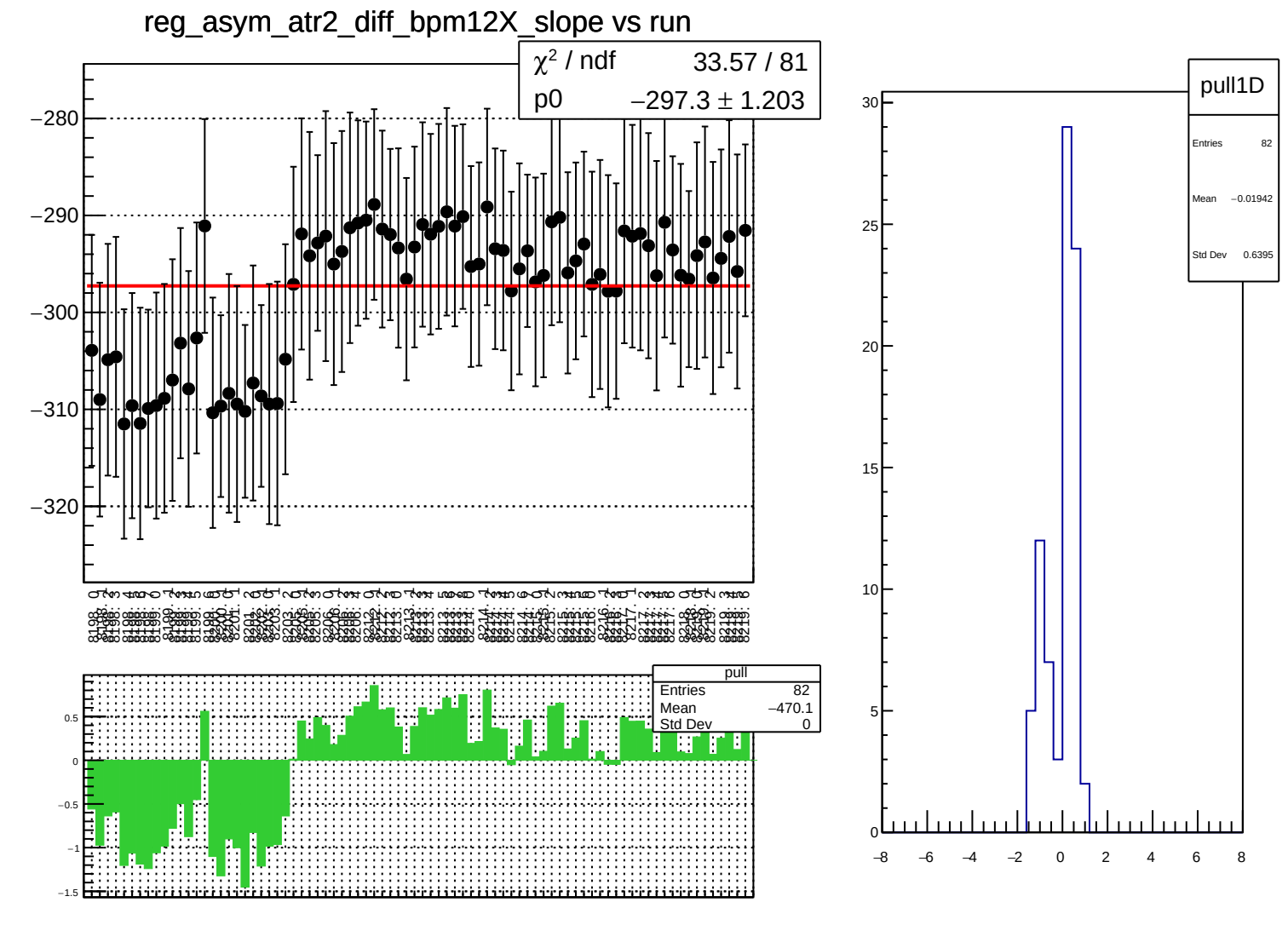

pull1D
Entries 82
Mean −0.002357
Std Dev 0.2099

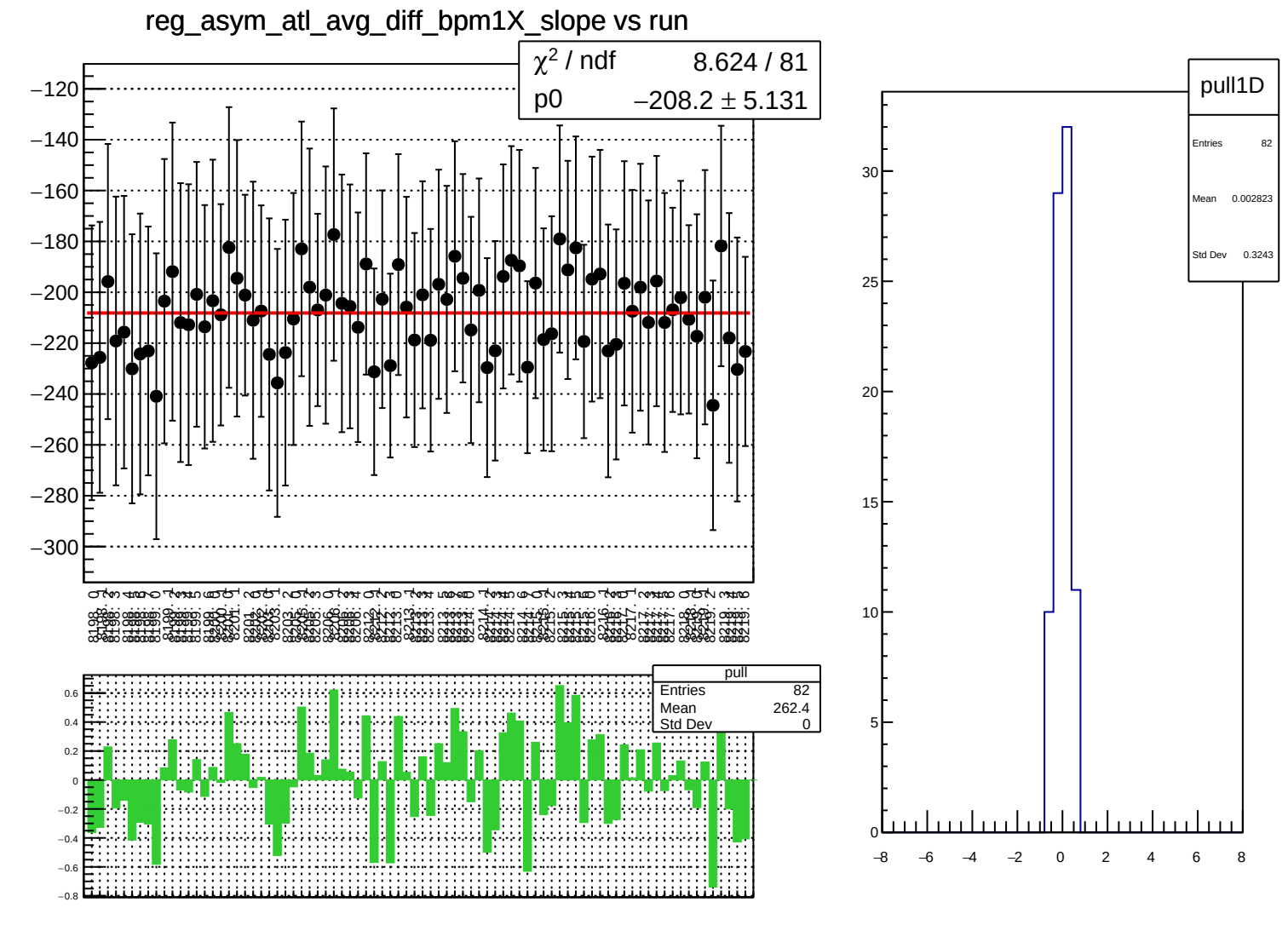

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.306 / 81
p0 149.5 ± 24.65
pull
Entries 82
Mean −289.8
Std Dev 0
pull1D
Entries 82
Mean 0.001548
Std Dev 0.2008

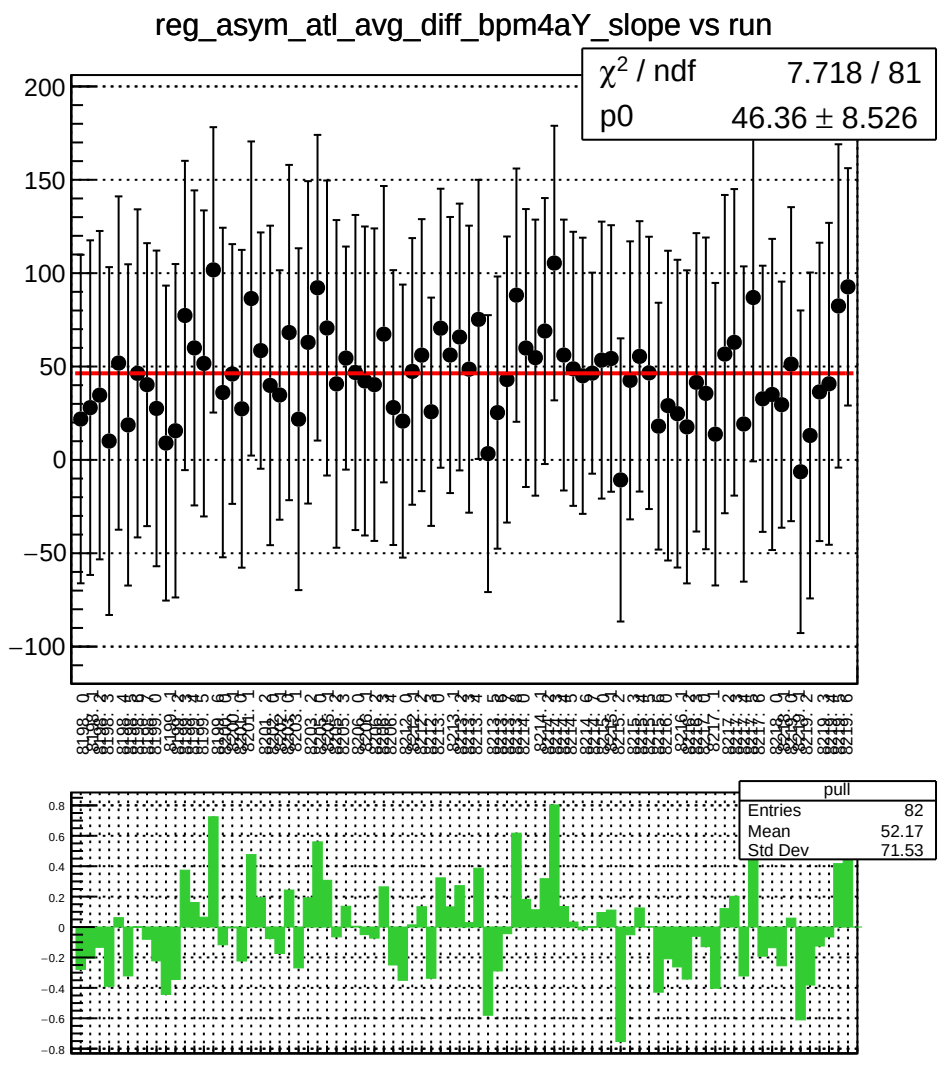

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 3.546 / 81
p0 601.9 ± 14.89
900
800
700
600
500
400
pull
Entries 82
Mean 415.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 82
Mean 0.002283
Std Dev 0.2079
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

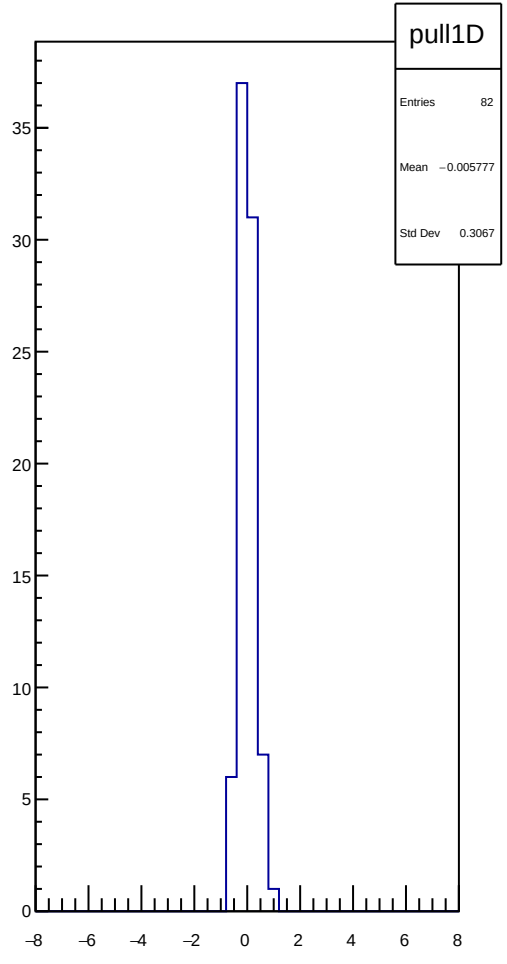

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.392 / 81
p0 −36.69 ± 26.51
pull
Entries 82
Mean −123.7
Std Dev 0

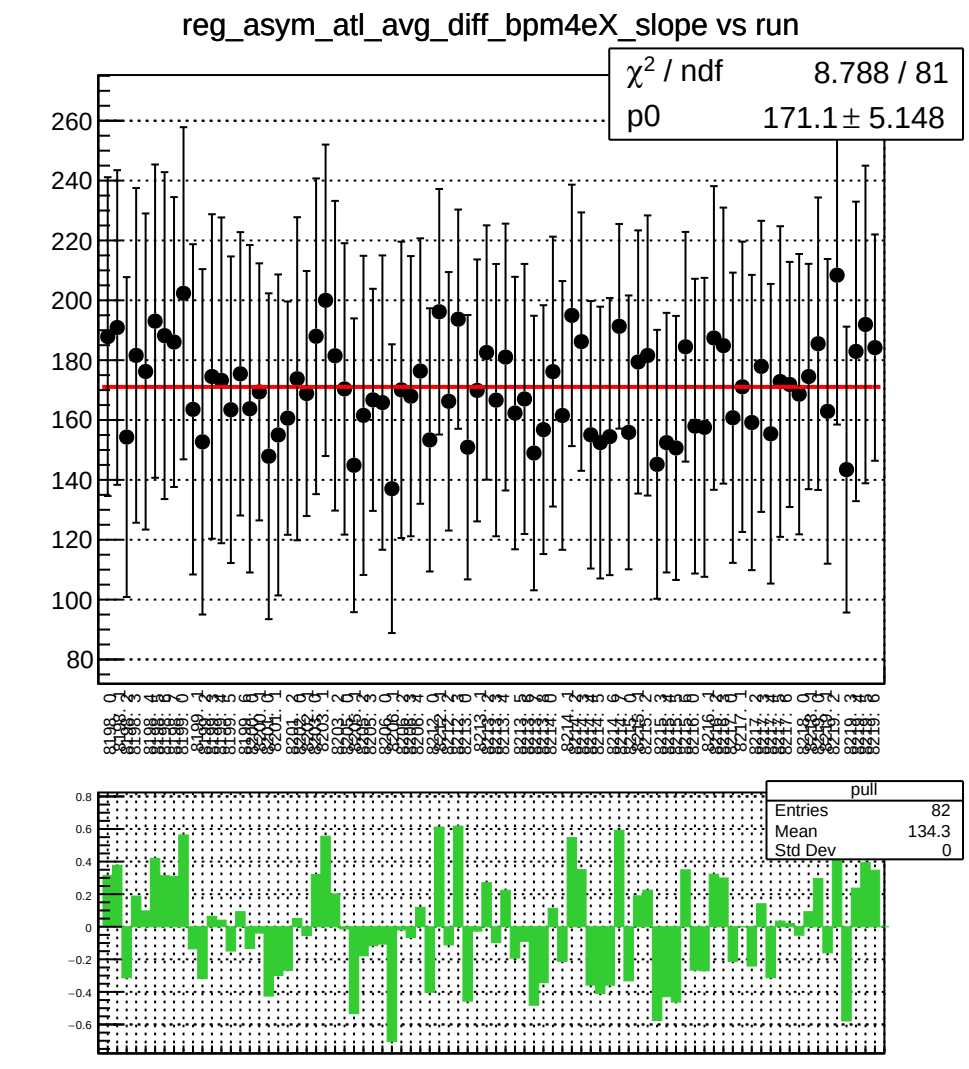

pull1D
Entries 82
Mean −0.001672
Std Dev 0.2034

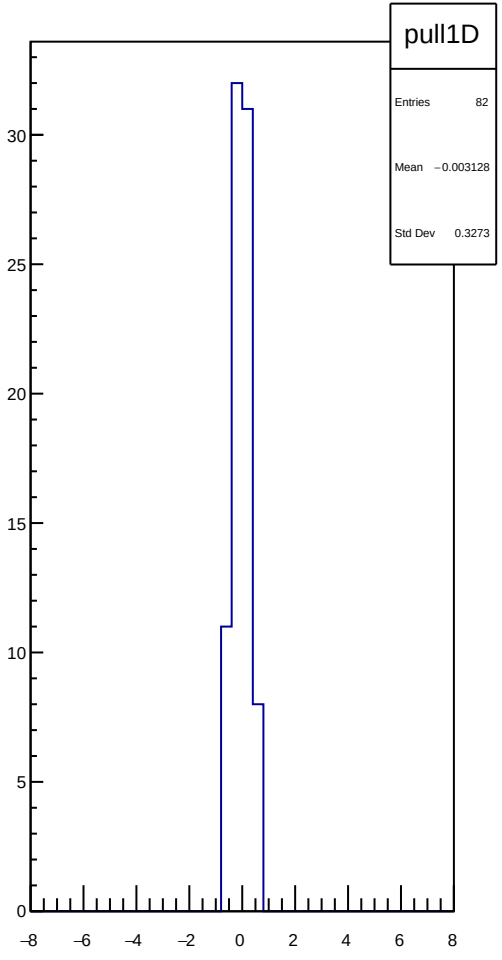

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 33.57 / 81
p0 −297.3 ± 1.203
−280
−290
−300
−310
−320
pull
Entries 82
Mean −470.1
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.01942
Std Dev 0.6395
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

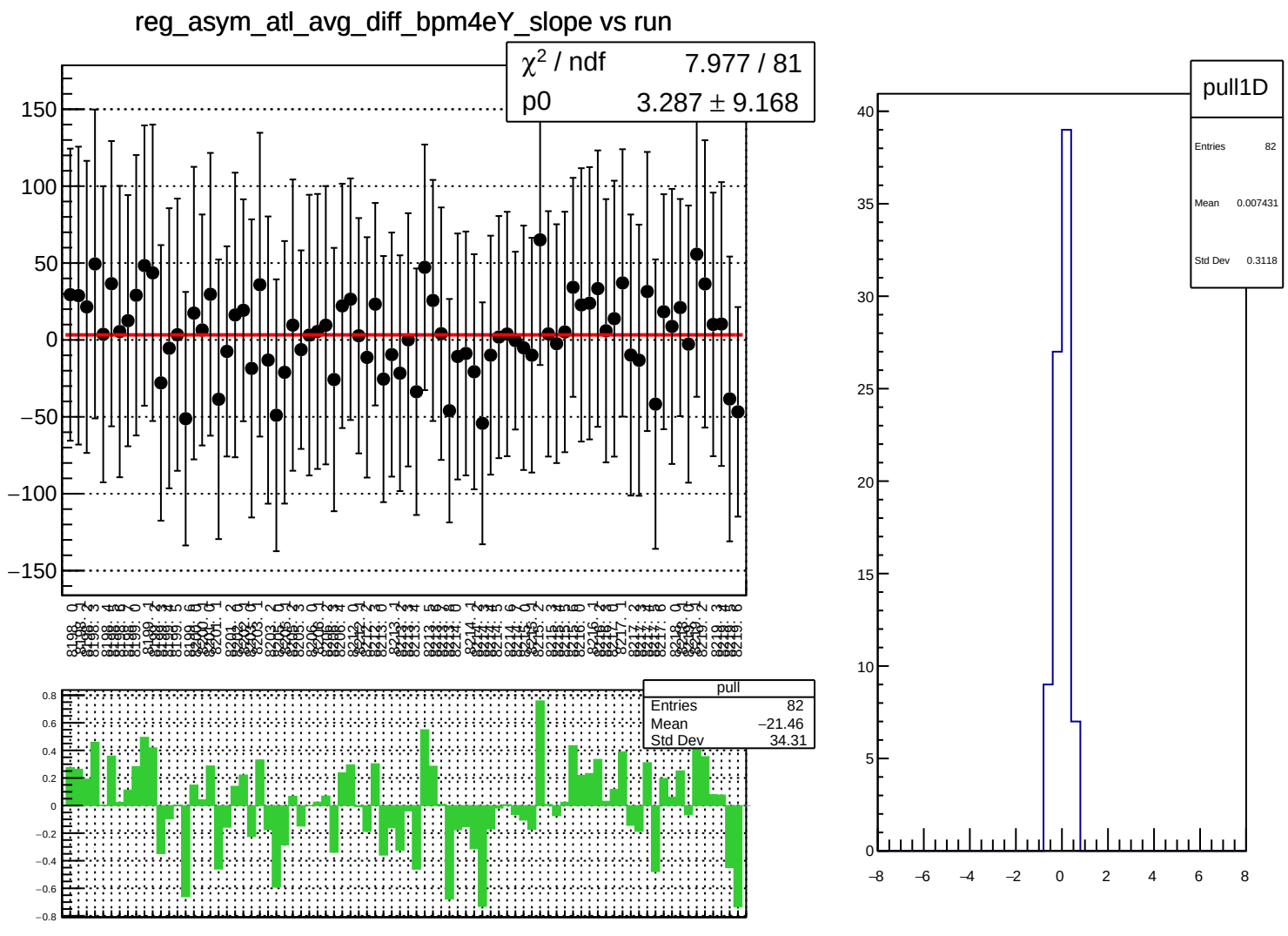

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 8.624 / 81
p0 −208.2 ± 5.131
pull
Entries 82
Mean 262.4
Std Dev 0
pull1D
Entries 82
Mean 0.002823
Std Dev 0.3243

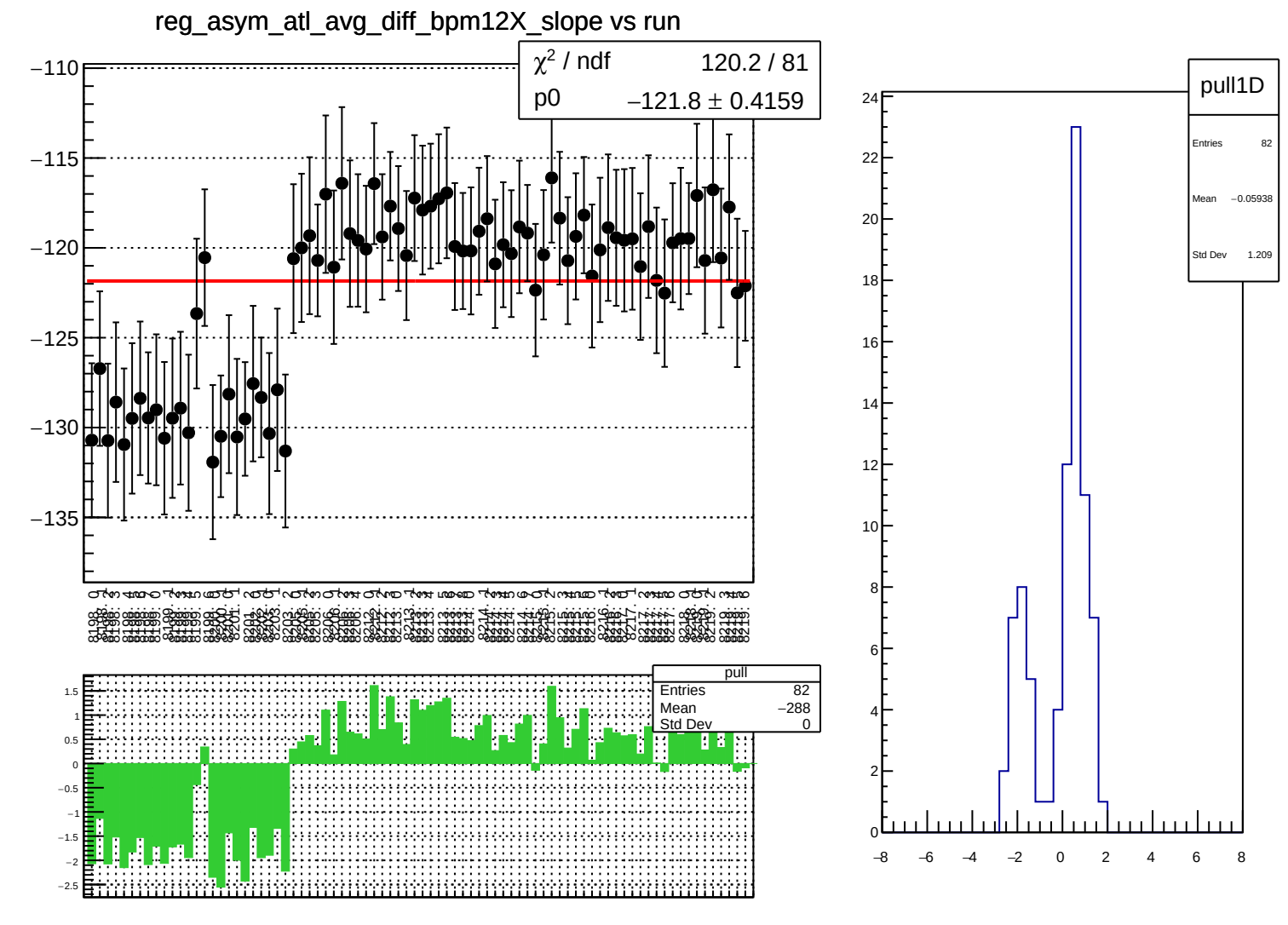

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.718 / 81
p0 46.36 ± 8.526
200
150
100
50
0
−50
−100
pull
Entries 82
Mean 52.17
Std Dev 71.53
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

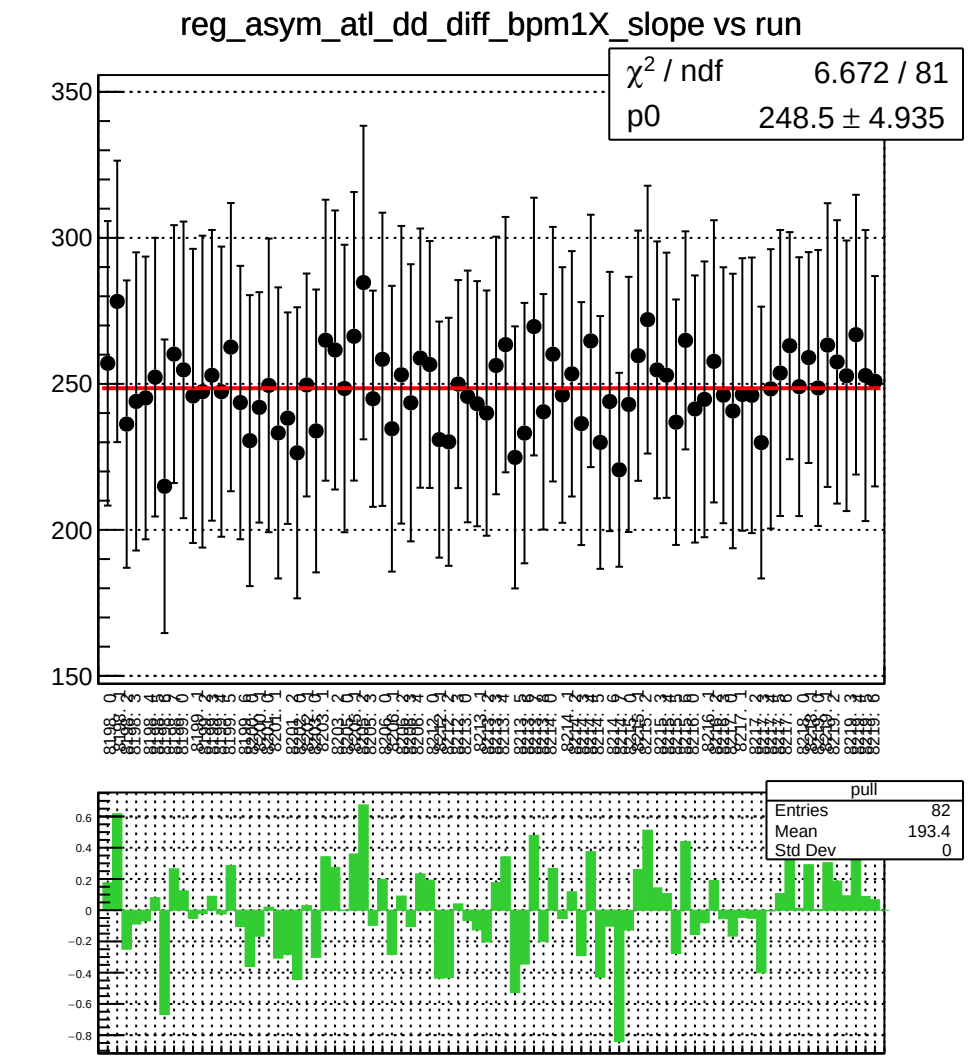

pull1D
Entries 82
Mean −0.005777
Std Dev 0.3067
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

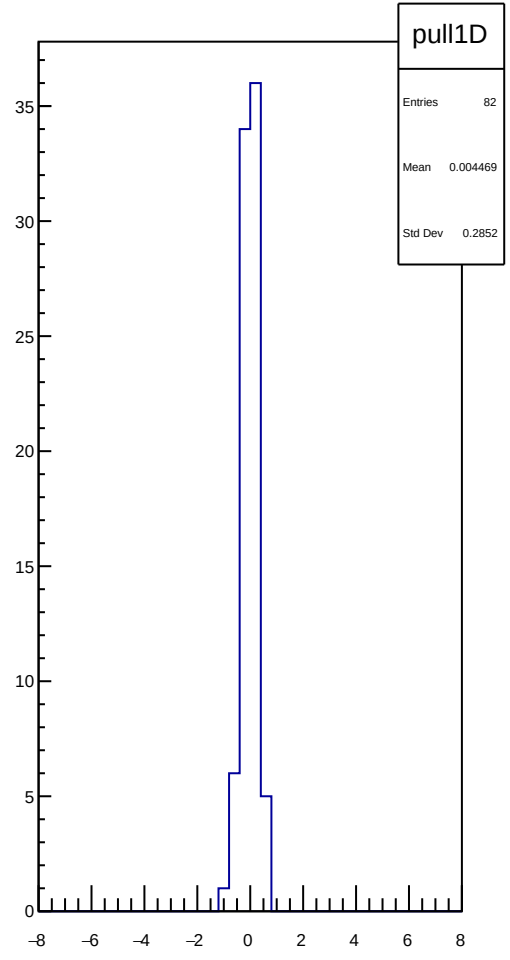

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.788 / 81
p0 171.1 ± 5.148
pull
Entries 82
Mean 134.3
Std Dev 0

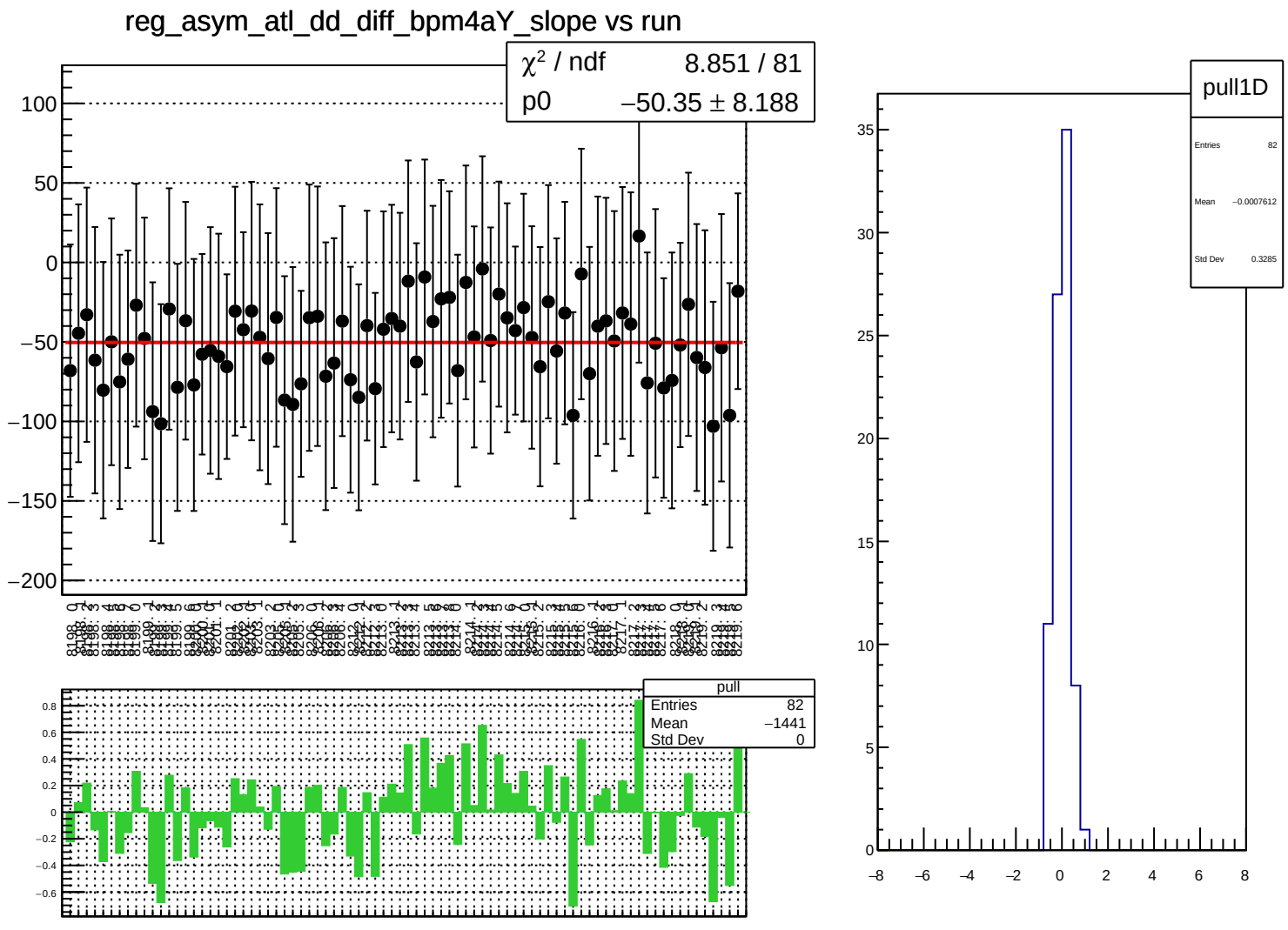

pull1D
Entries 82
Mean −0.003128
Std Dev 0.3273

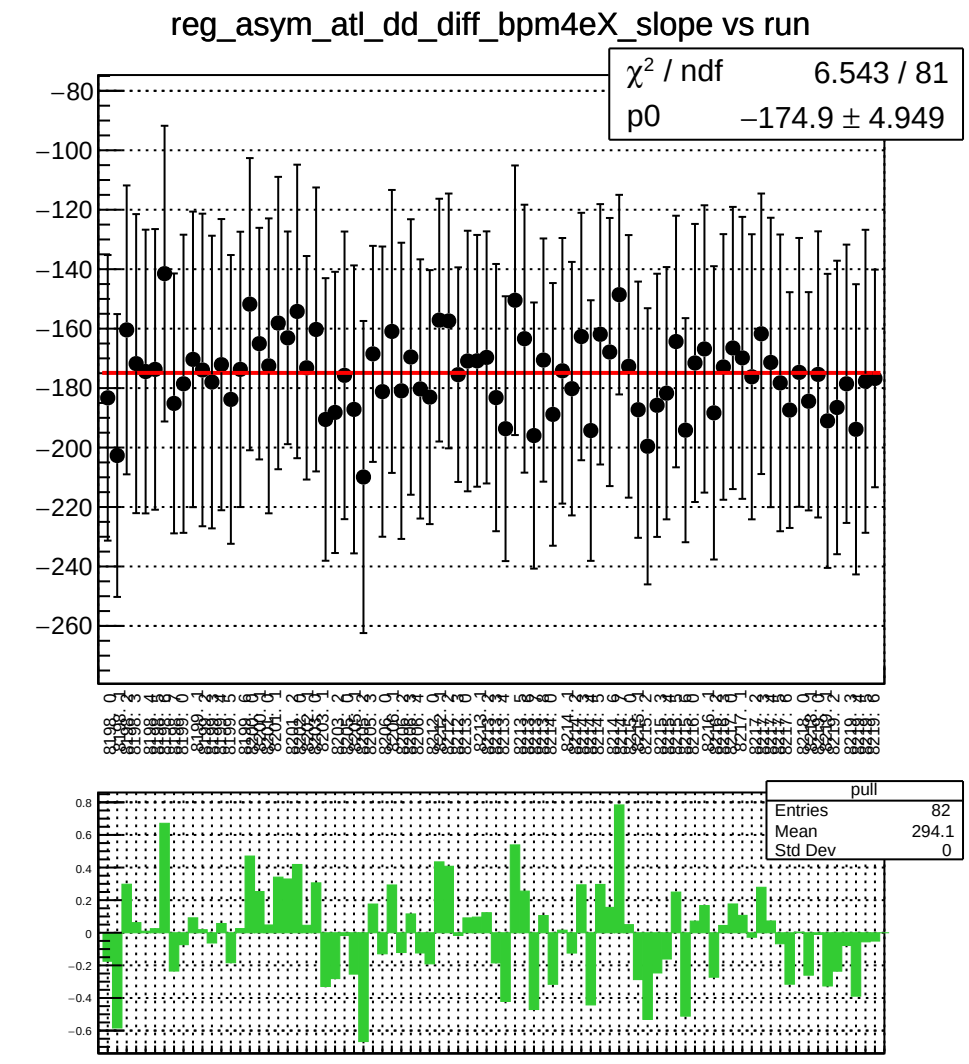

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.977 / 81
p0 3.287 ± 9.168
pull
Entries 82
Mean −21.46
Std Dev 34.31
pull1D
Entries 82
Mean 0.007431
Std Dev 0.3118

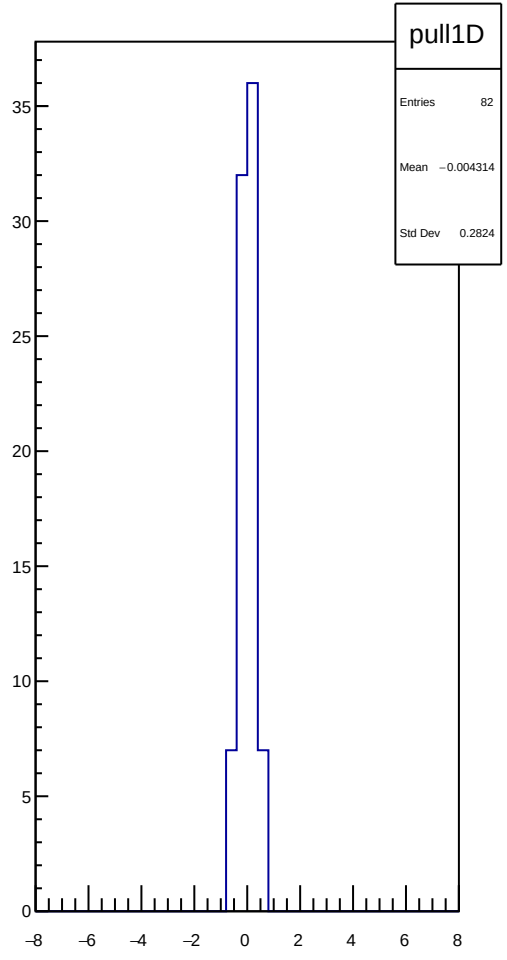

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 120.2 / 81
p0 −121.8 ± 0.4159
pull
Entries 82
Mean −288
Std Dev 0
pull1D
Entries 82
Mean −0.05938
Std Dev 1.209

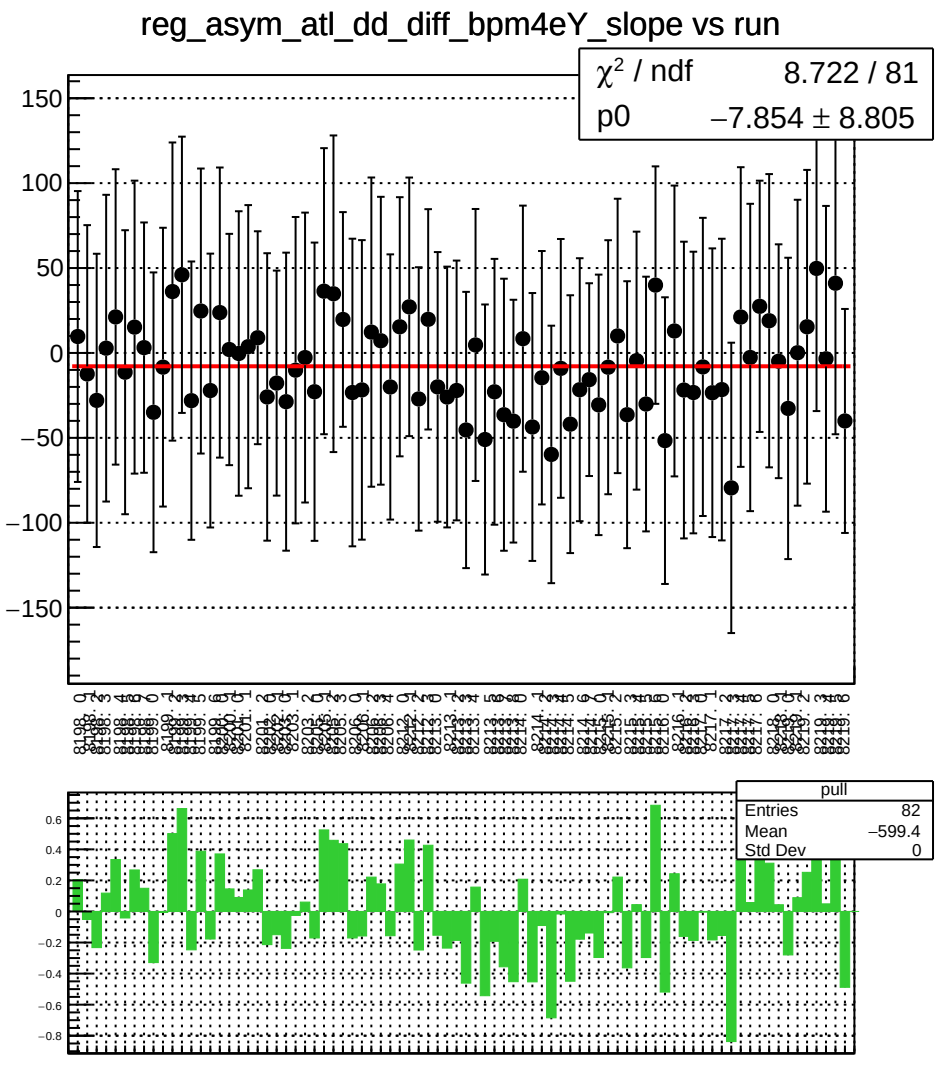

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 6.672 / 81
p0 248.5 ± 4.935
pull
Entries 82
Mean 193.4
Std Dev 0

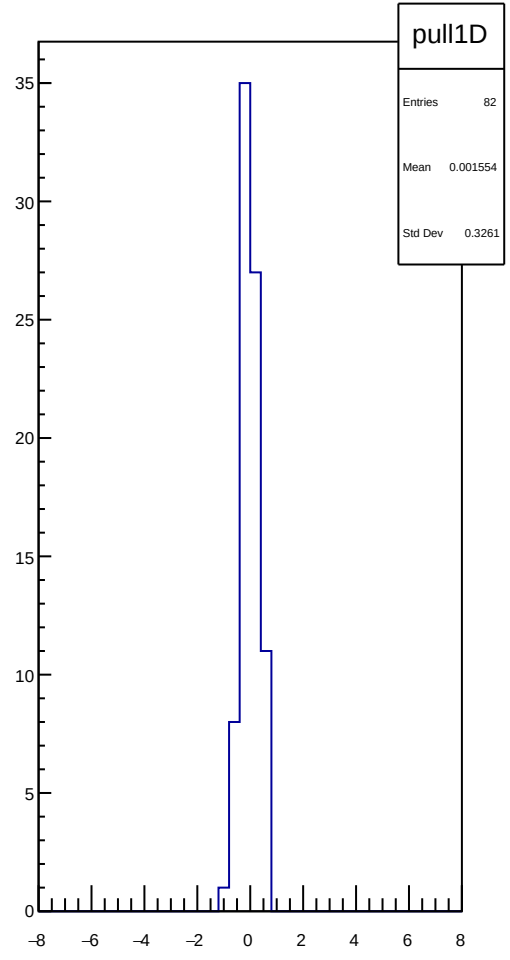

pull1D
Entries 82
Mean 0.004469
Std Dev 0.2852

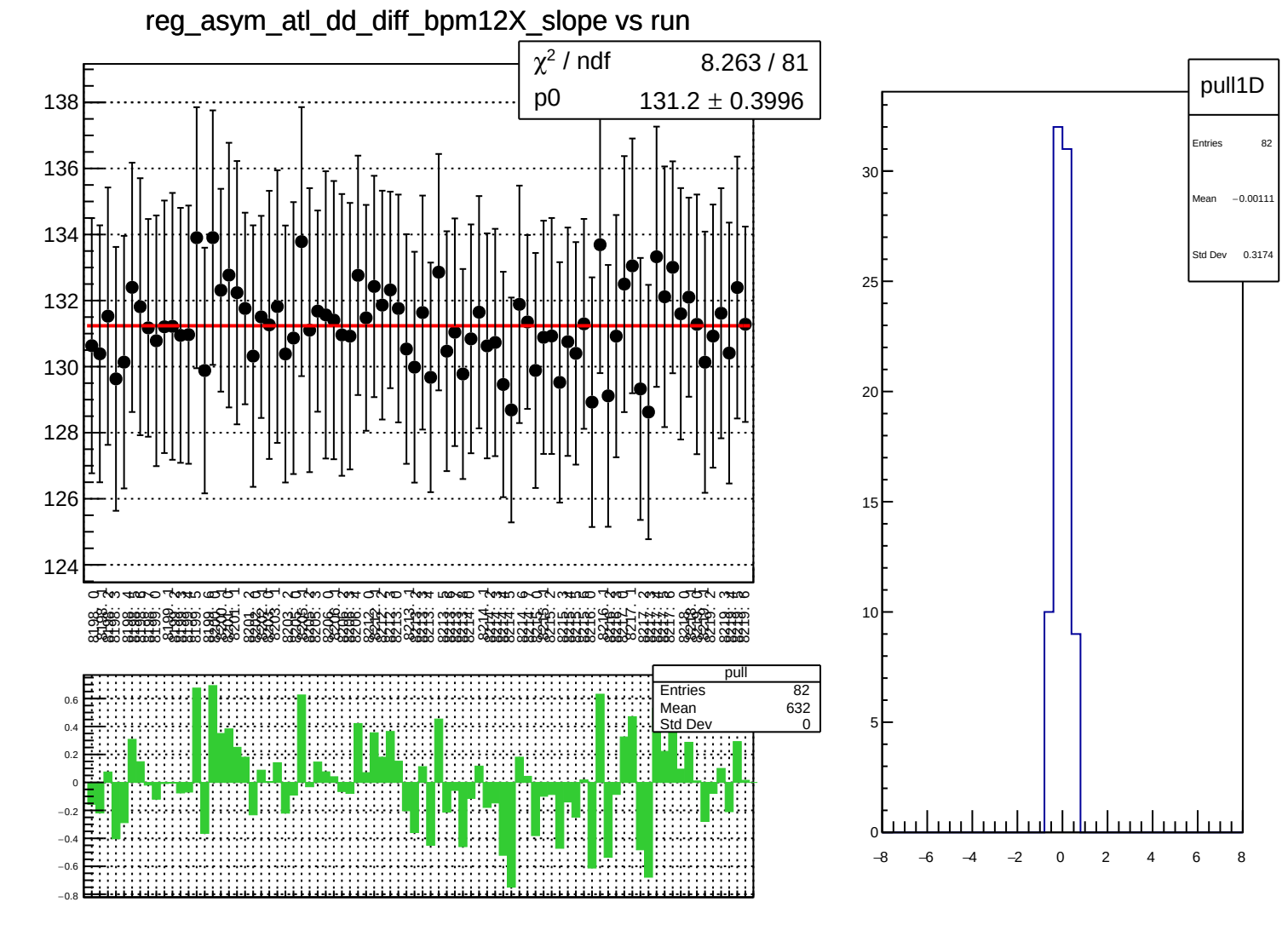

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.851 / 81
p0 −50.35 ± 8.188
pull
Entries 82
Mean −1441
Std Dev 0
pull1D
Entries 82
Mean −0.0007612
Std Dev 0.3285

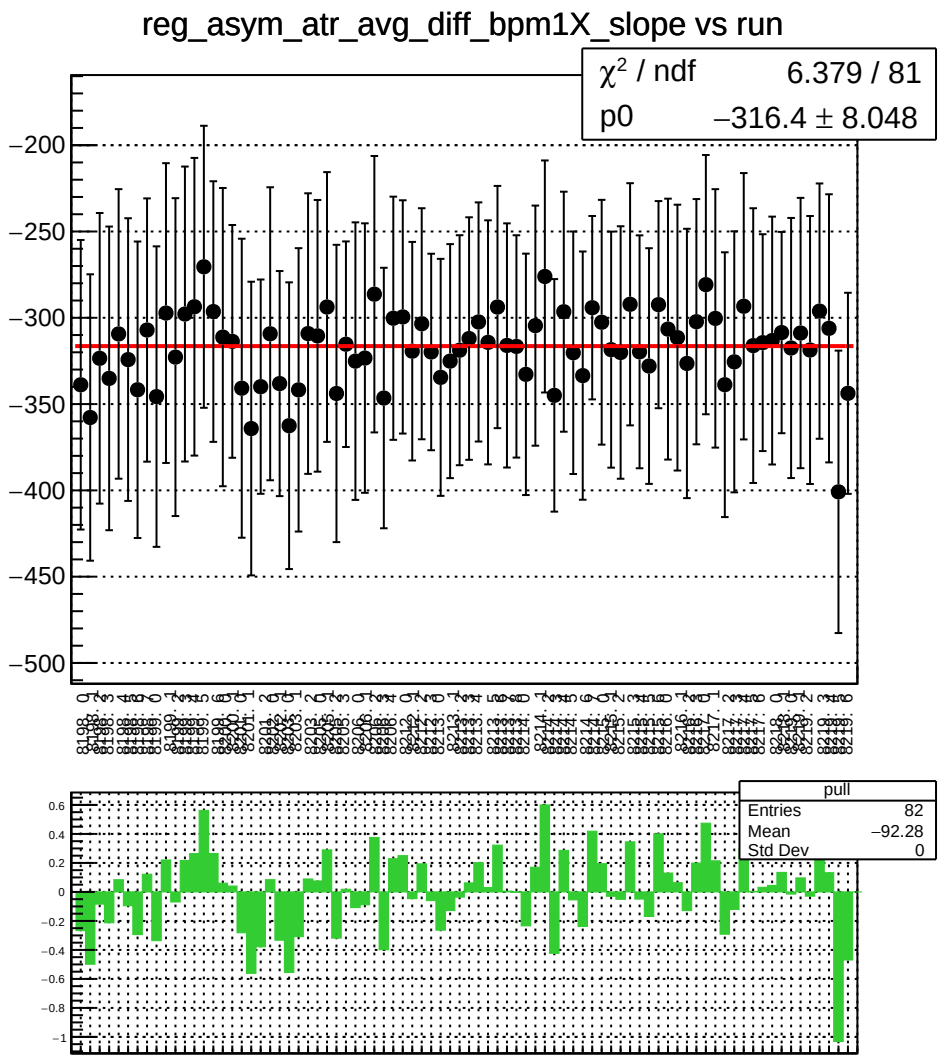

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.543 / 81
p0 −174.9 ± 4.949
pull
Entries 82
Mean 294.1
Std Dev 0

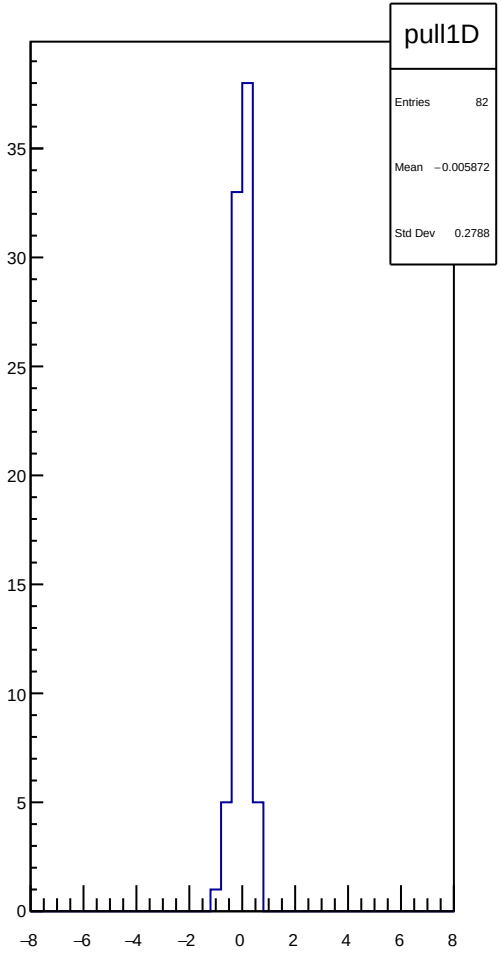

pull1D
Entries 82
Mean −0.004314
Std Dev 0.2824

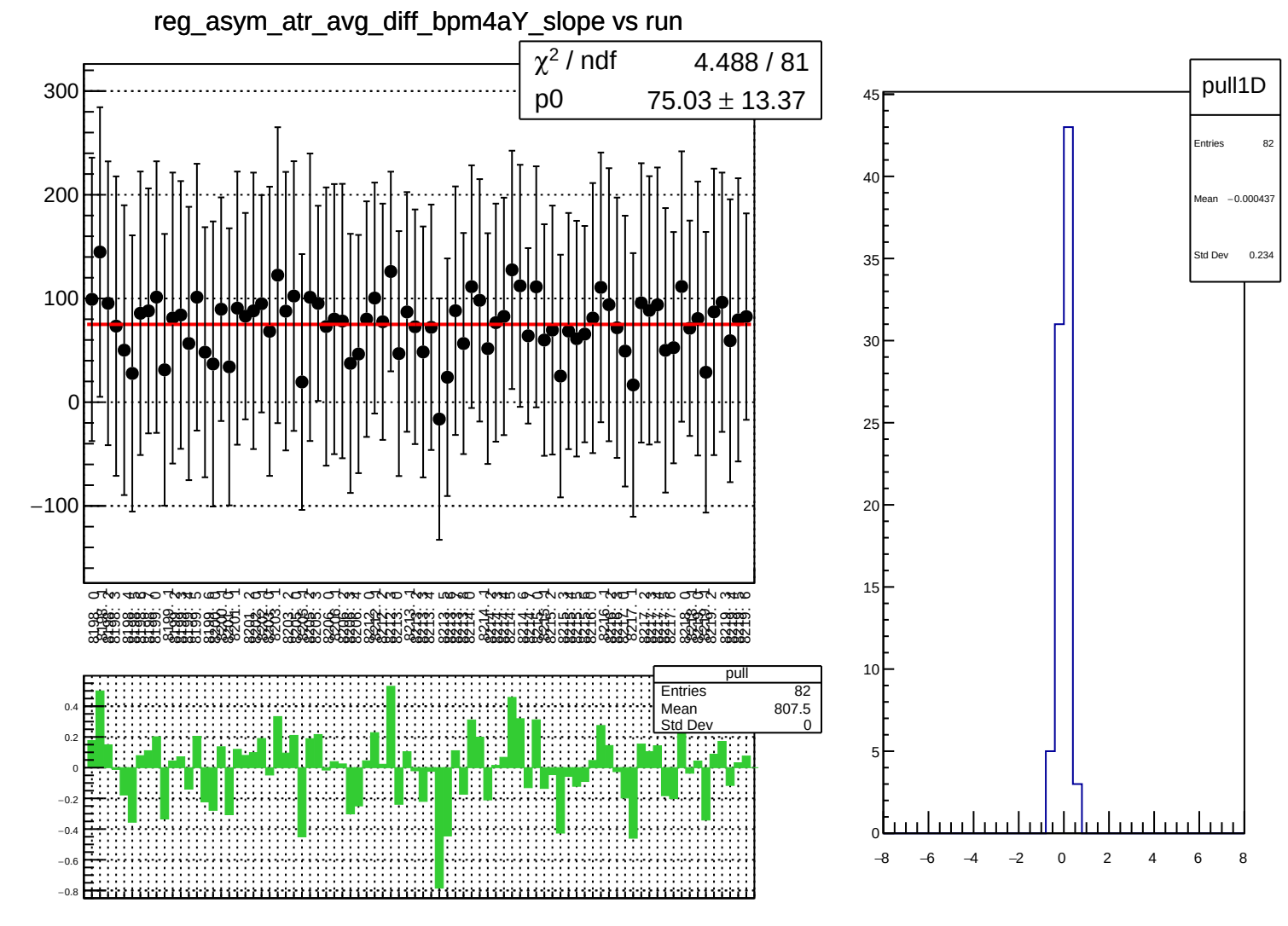

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.722 / 81
p0 −7.854 ± 8.805
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −599.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

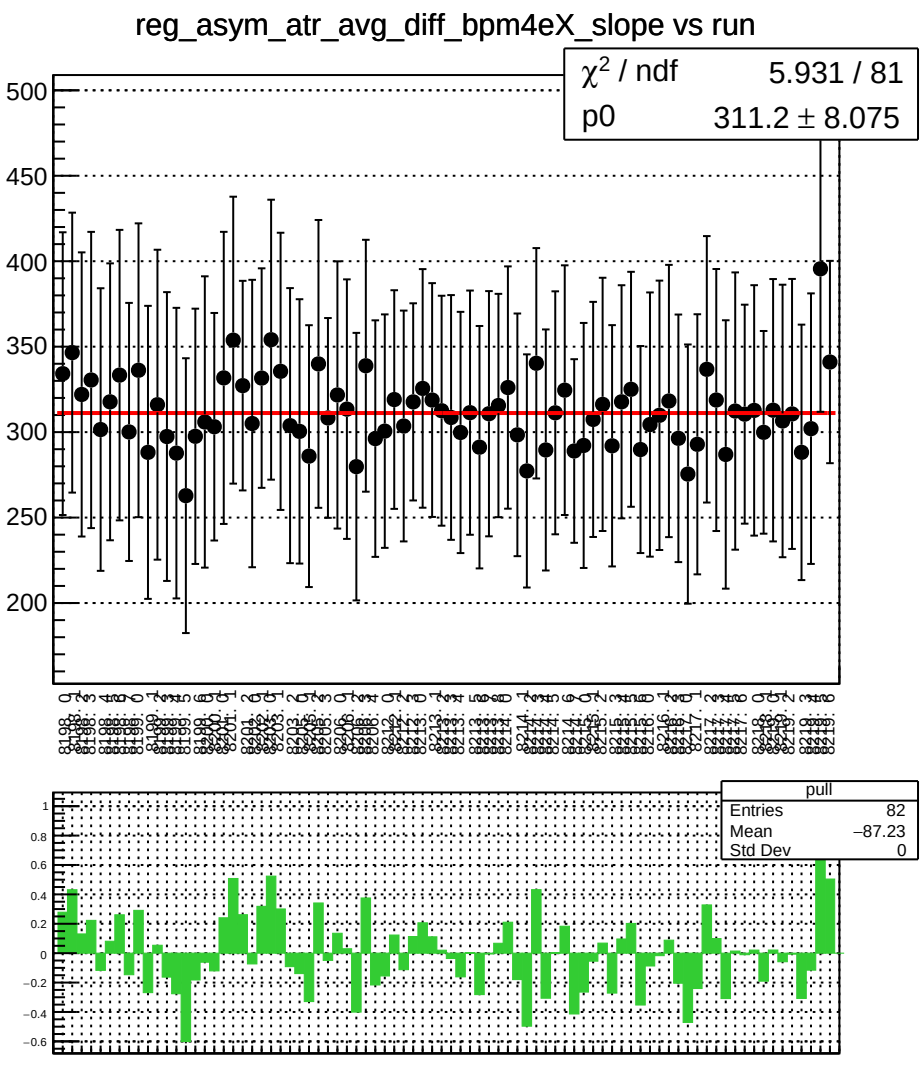

pull1D
Entries 82
Mean 0.001554
Std Dev 0.3261
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

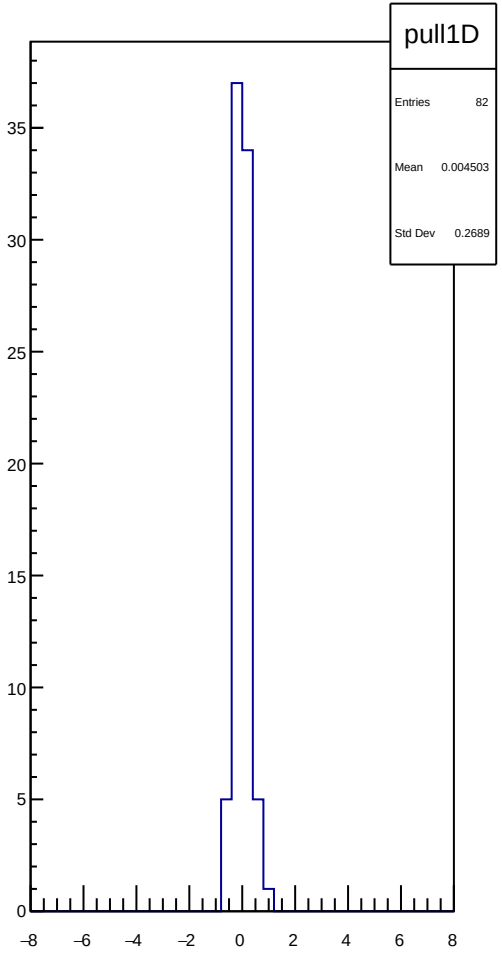

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 8.263 / 81
p0 131.2 ± 0.3996
pull
Entries 82
Mean 632
Std Dev 0
pull1D
Entries 82
Mean −0.00111
Std Dev 0.3174

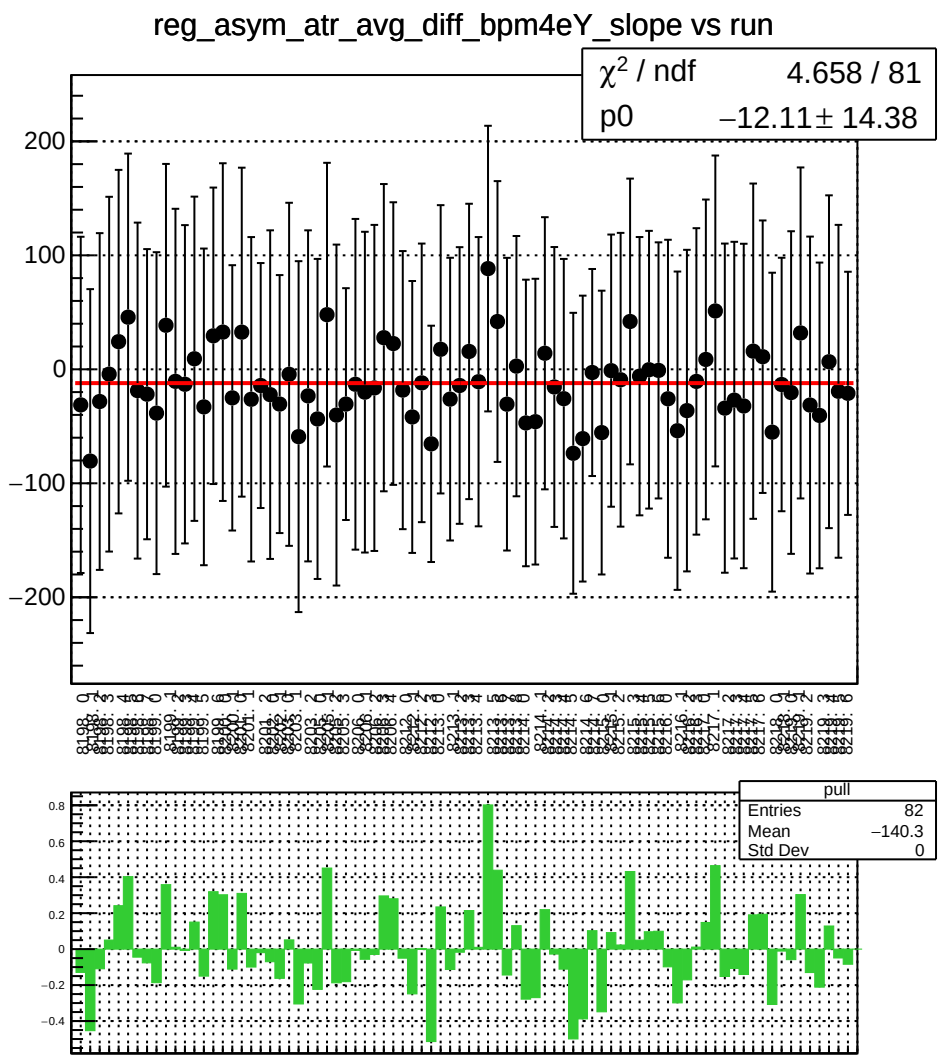

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 6.379 / 81
p0 −316.4 ± 8.048
pull
Entries 82
Mean −92.28
Std Dev 0

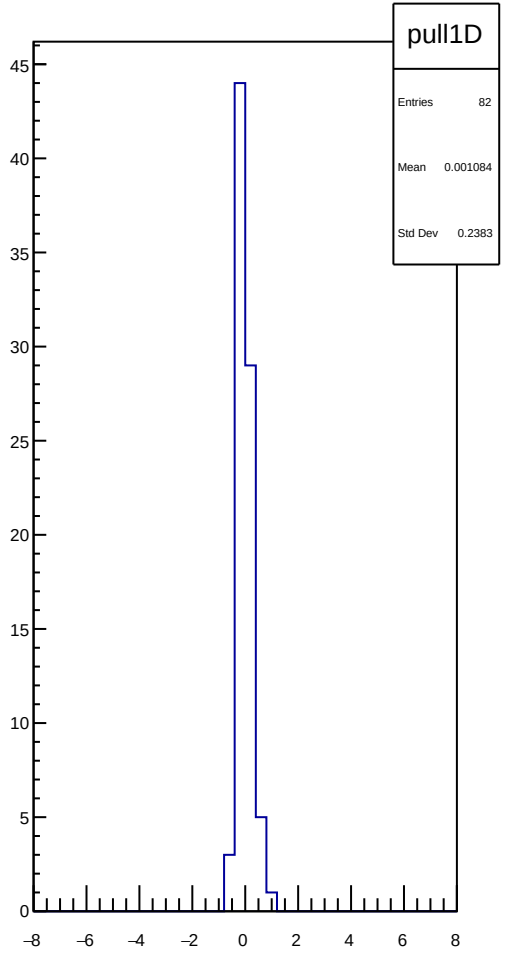

pull1D
Entries 82
Mean −0.005872
Std Dev 0.2788

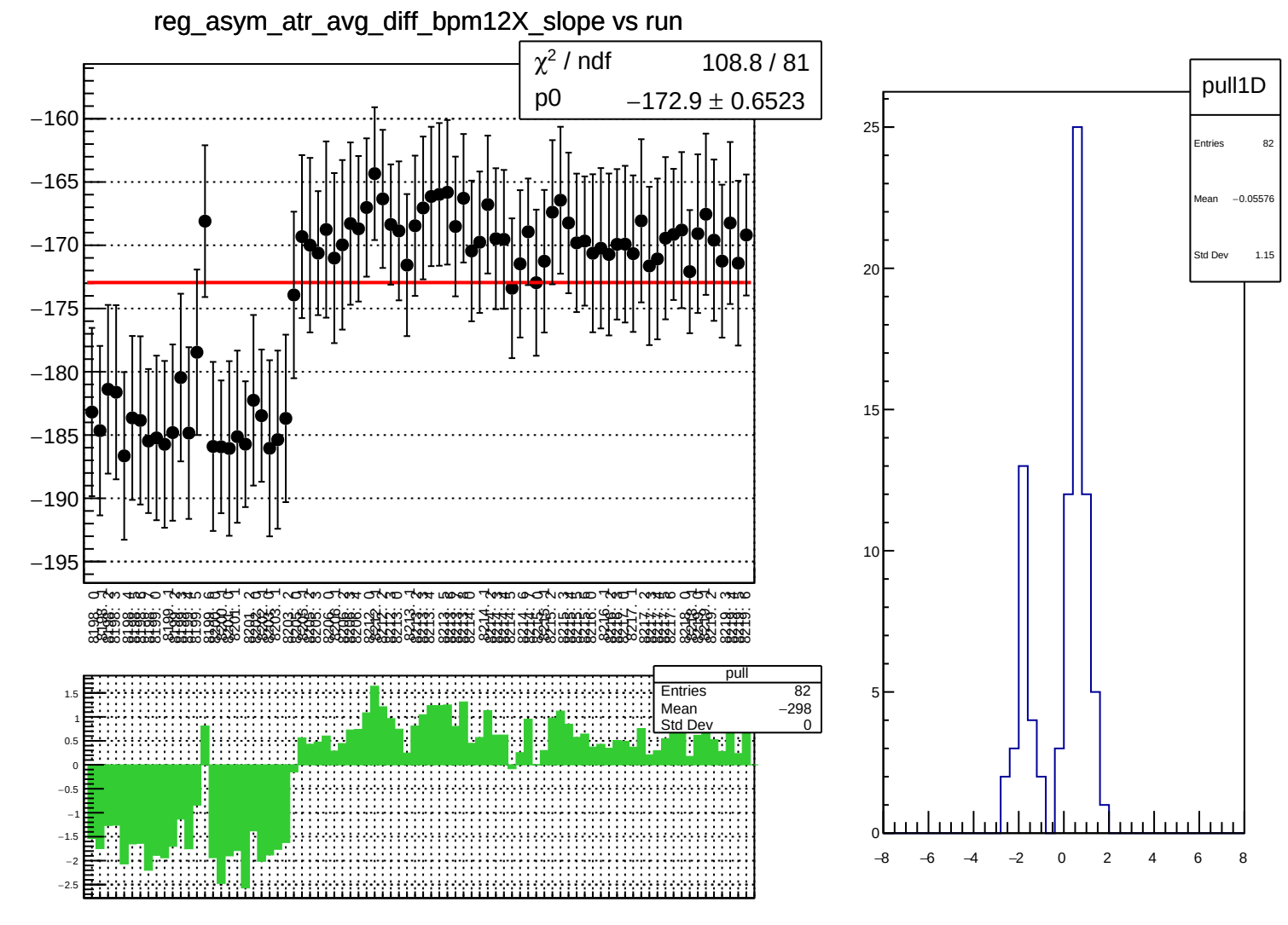

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.488 / 81
p0 75.03 ± 13.37
pull
Entries 82
Mean 807.5
Std Dev 0
pull1D
Entries 82
Mean −0.000437
Std Dev 0.234

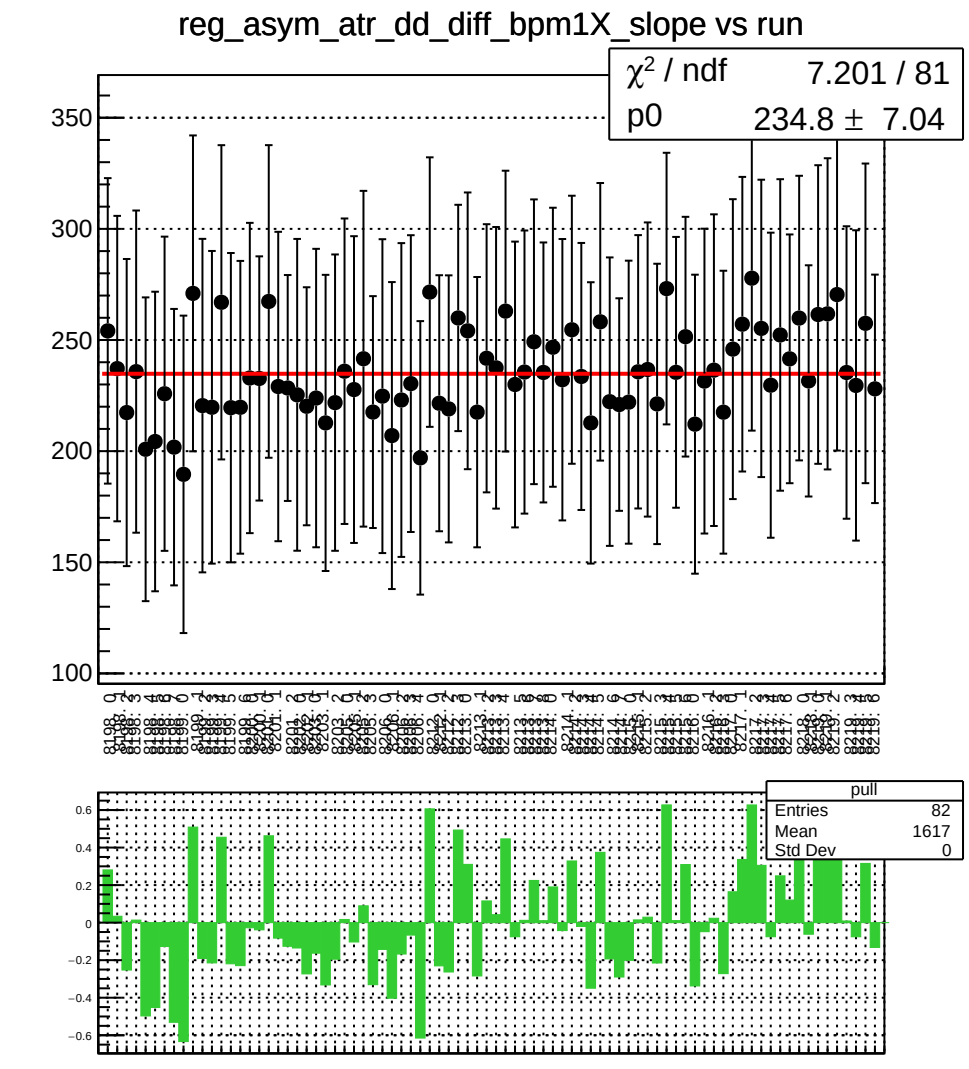

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.931 / 81
p0 311.2 ± 8.075
pull
Entries 82
Mean −87.23
Std Dev 0

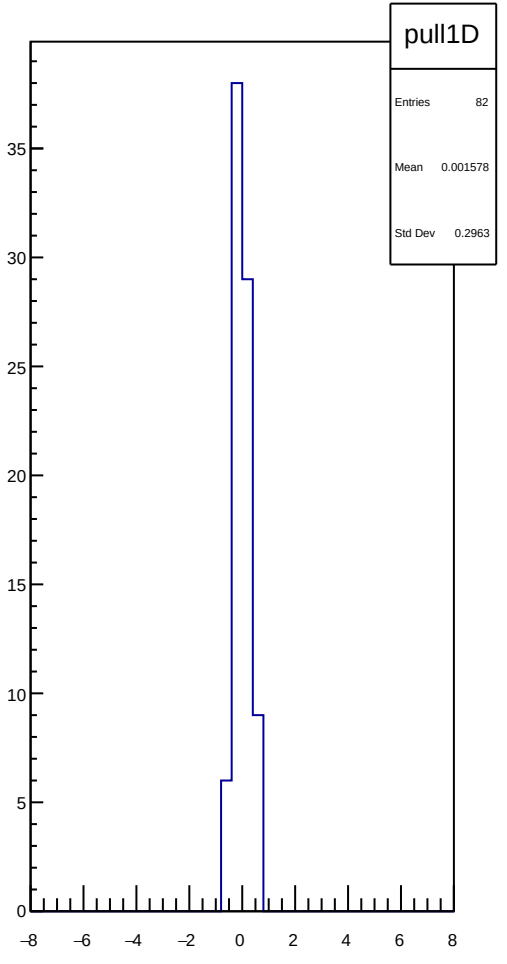

pull1D
Entries 82
Mean 0.004503
Std Dev 0.2689

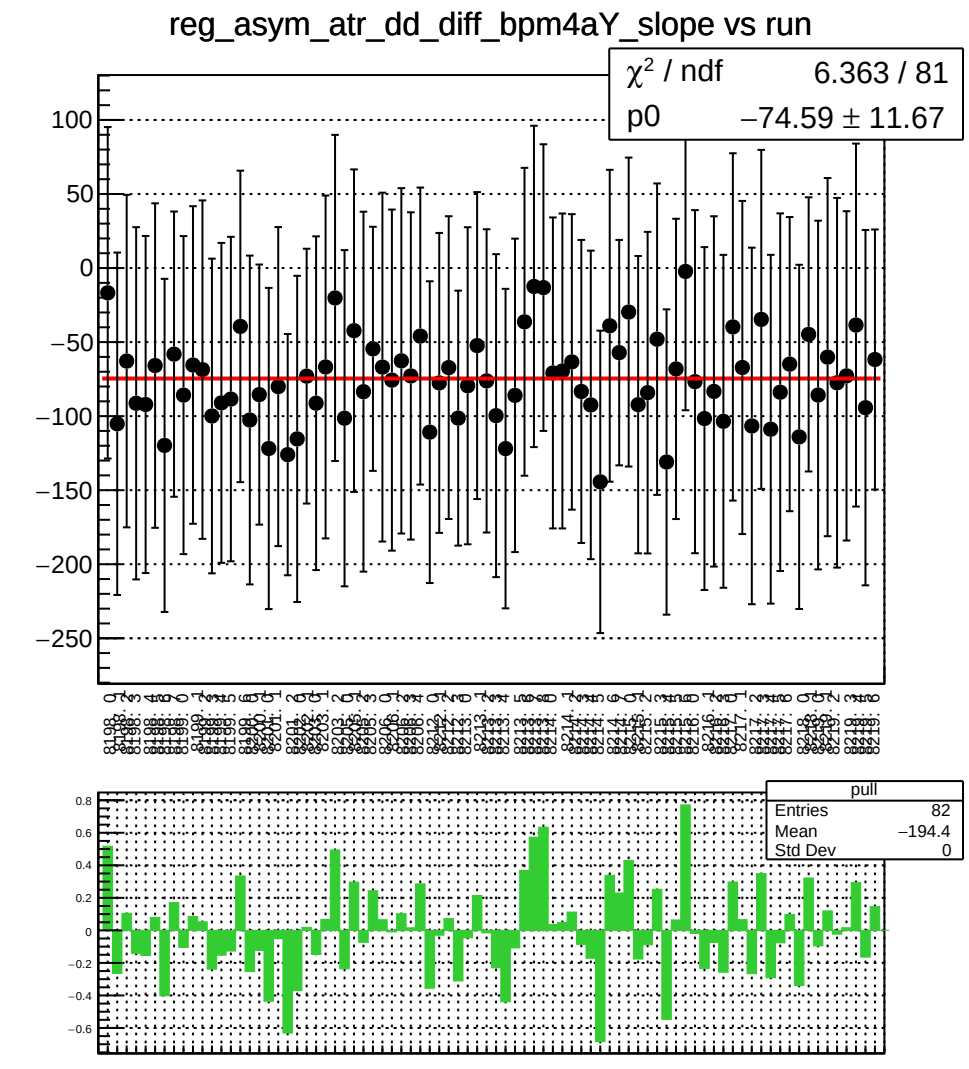

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.658 / 81
p0 −12.11± 14.38
200
100
0
−100
−200
pull
Entries 82
Mean −140.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

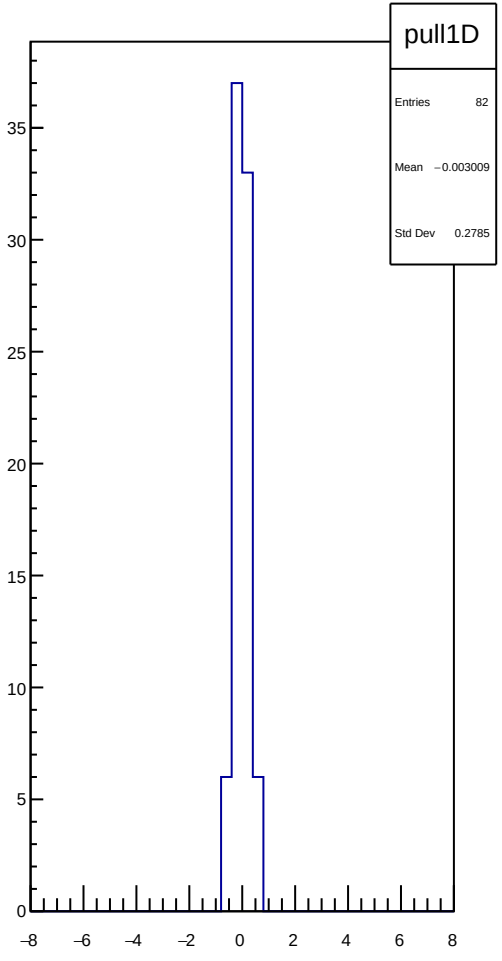

pull1D
Entries 82
Mean 0.001084
Std Dev 0.2383
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

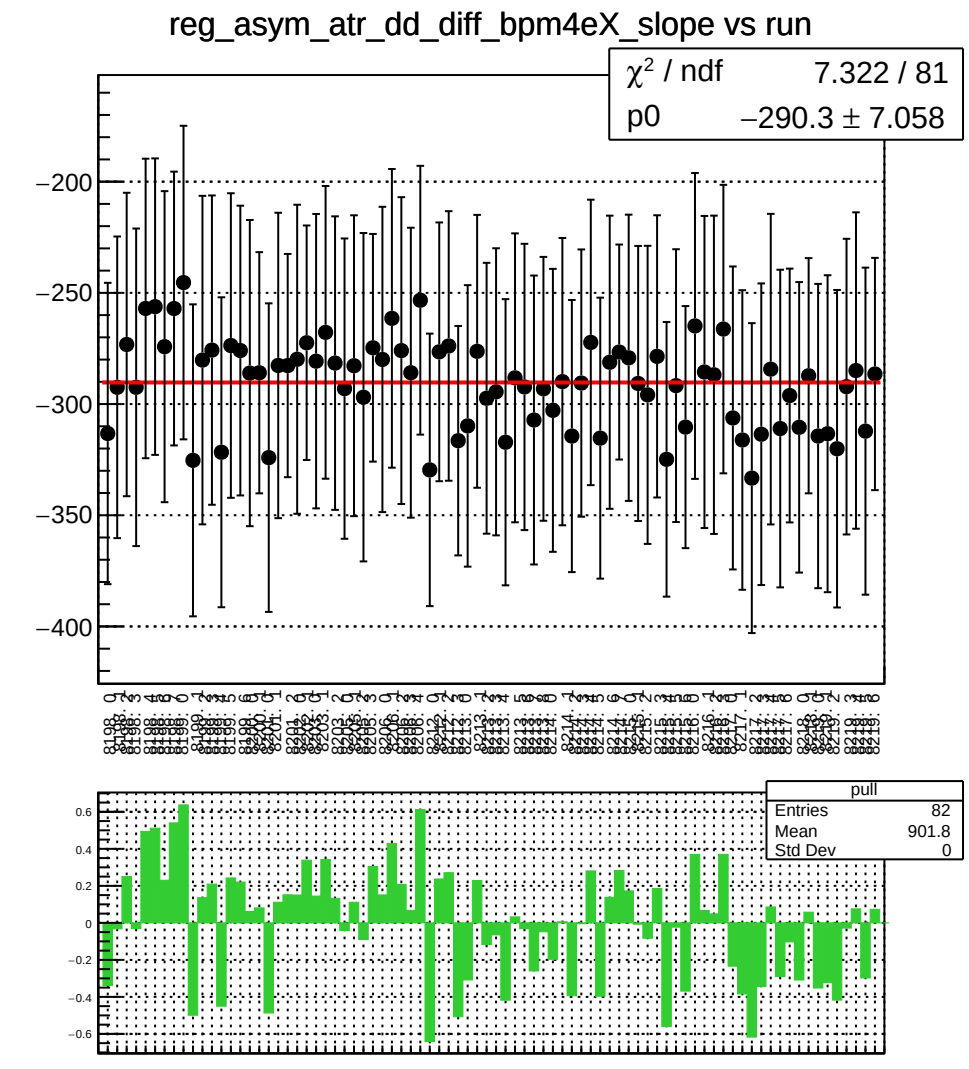

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 108.8 / 81
p0 −172.9 ± 0.6523
pull
Entries 82
Mean −298
Std Dev 0
pull1D
Entries 82
Mean −0.05576
Std Dev 1.15

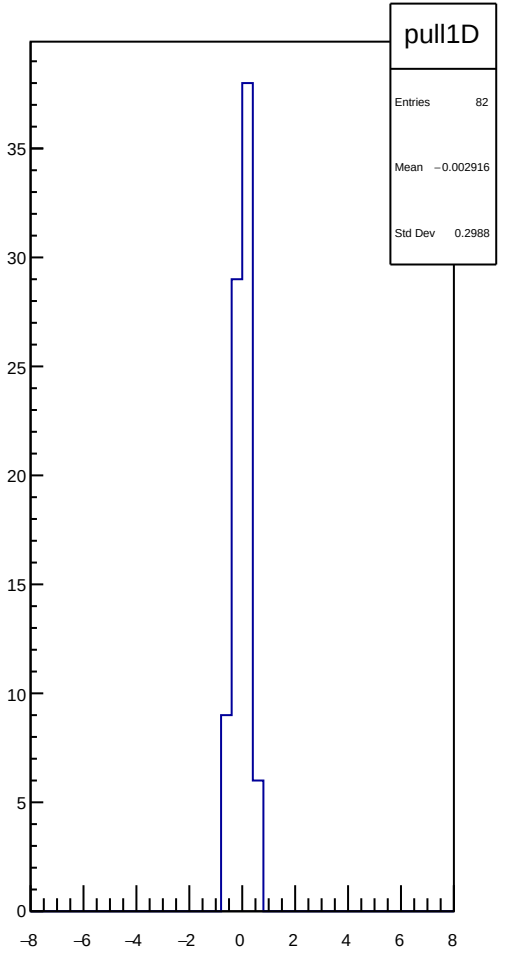

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 7.201 / 81
p0 234.8 ± 7.04
350
300
250
200
150
100
pull
Entries 82
Mean 1617
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

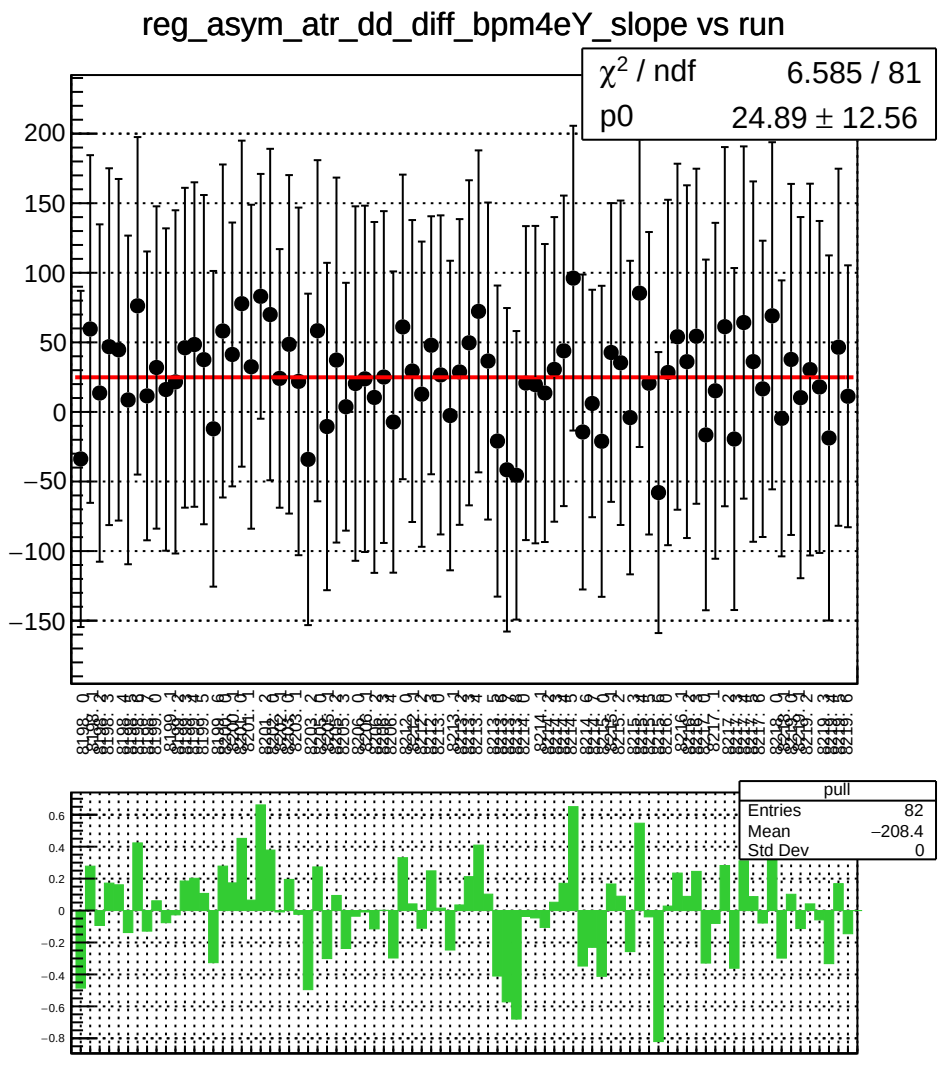

pull1D
Entries 82
Mean 0.001578
Std Dev 0.2963
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

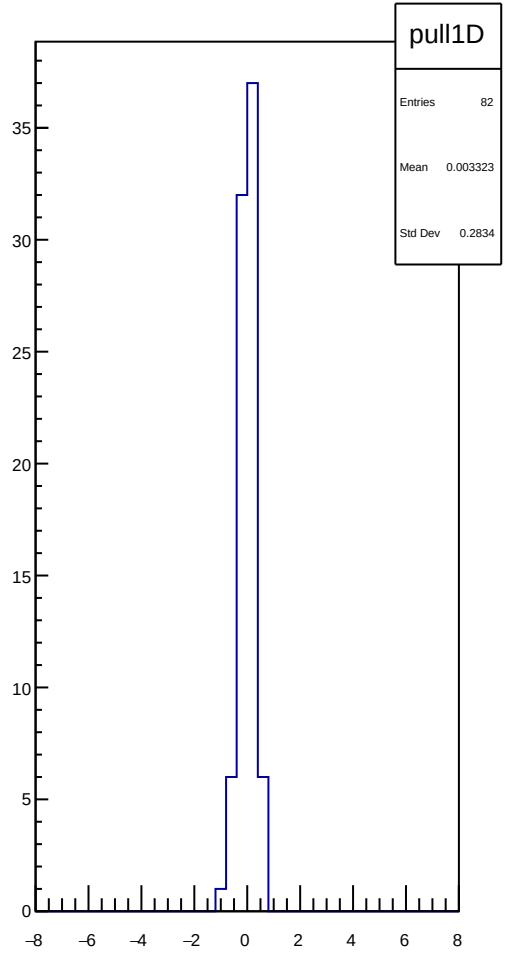

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.363 / 81
p0 −74.59 ± 11.67
pull
Entries 82
Mean −194.4
Std Dev 0

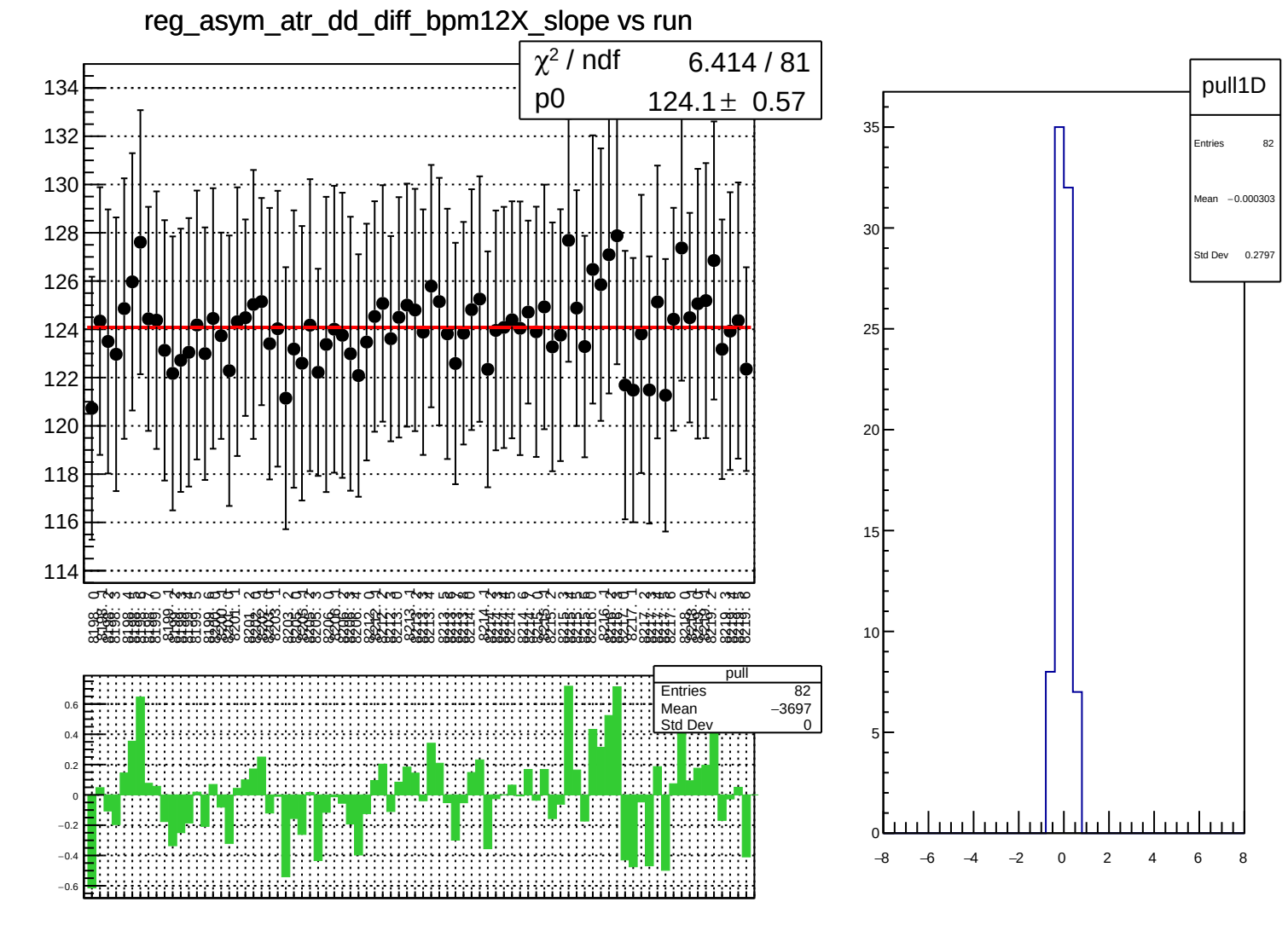

pull1D
Entries 82
Mean −0.003009
Std Dev 0.2785

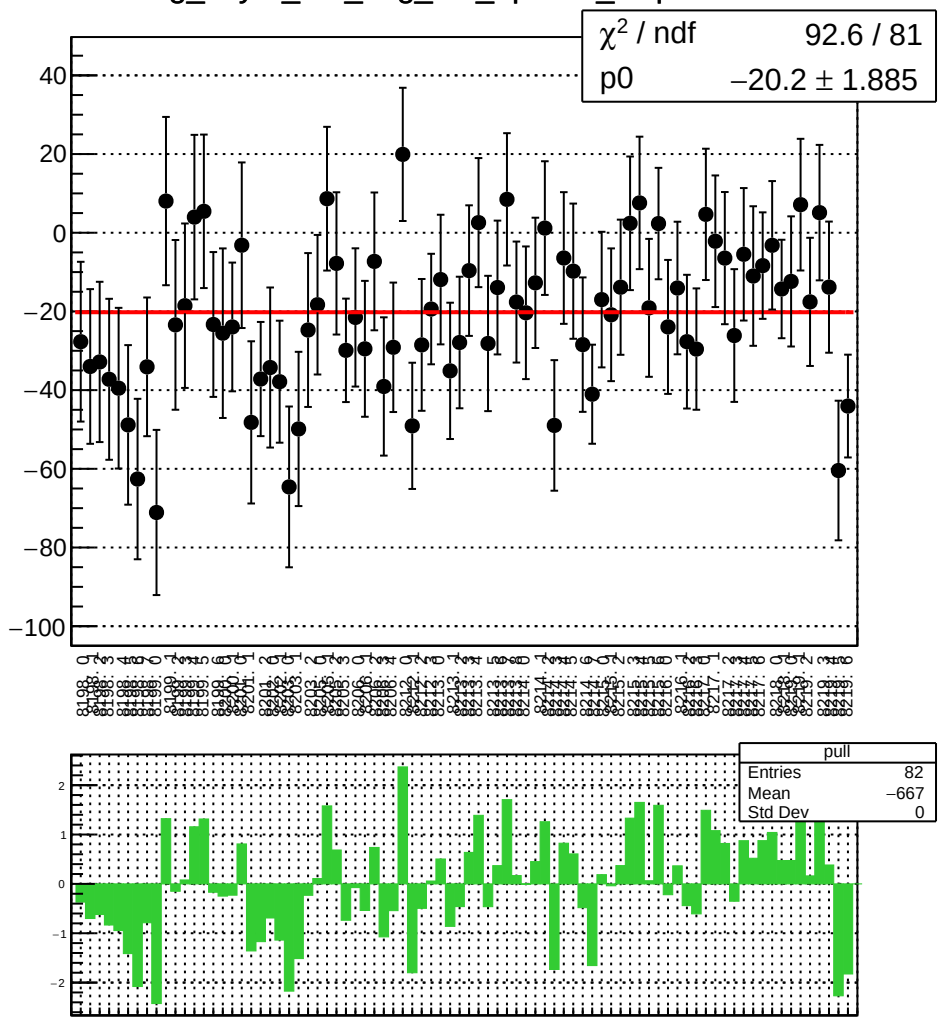

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.322 / 81
p0 −290.3 ± 7.058
−200
−250
−300
−350
−400
pull
Entries 82
Mean 901.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

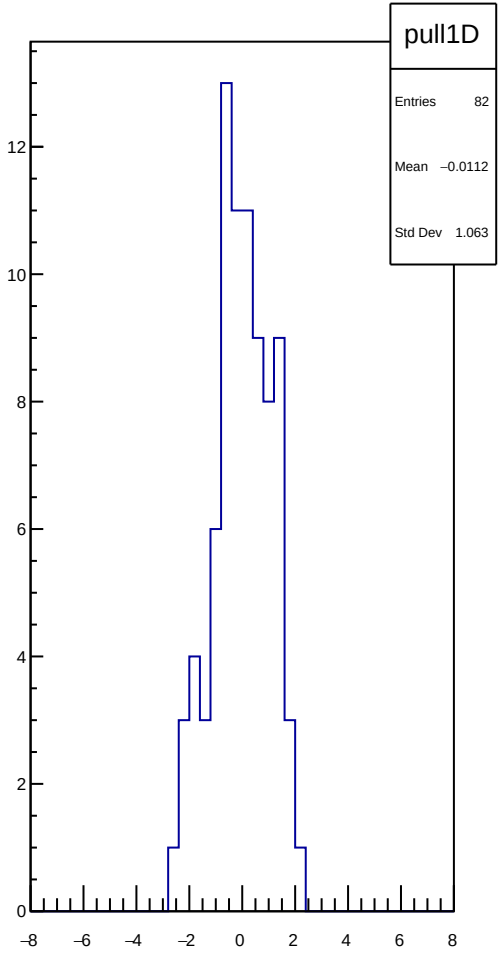

pull1D
Entries 82
Mean −0.002916
Std Dev 0.2988
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

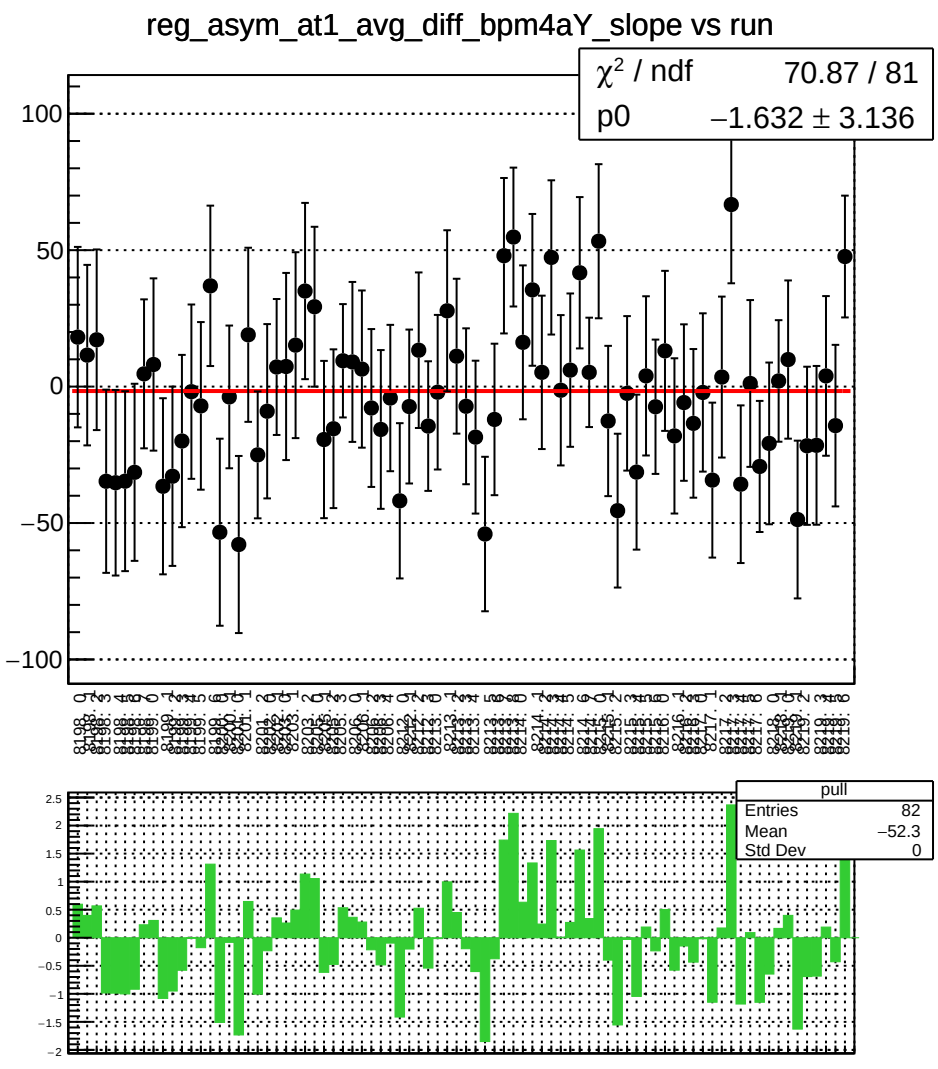

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.585 / 81
p0 24.89 ± 12.56
pull
Entries 82
Mean −208.4
Std Dev 0

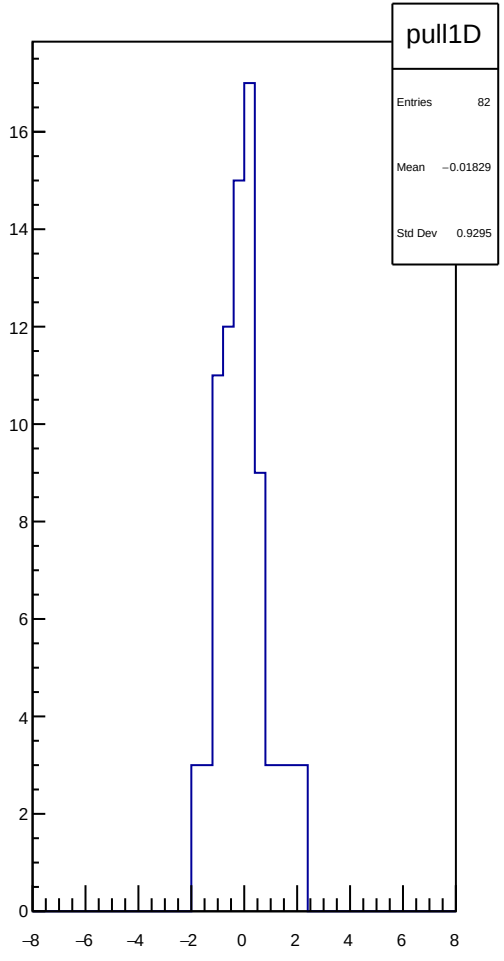

pull1D
Entries 82
Mean 0.003323
Std Dev 0.2834

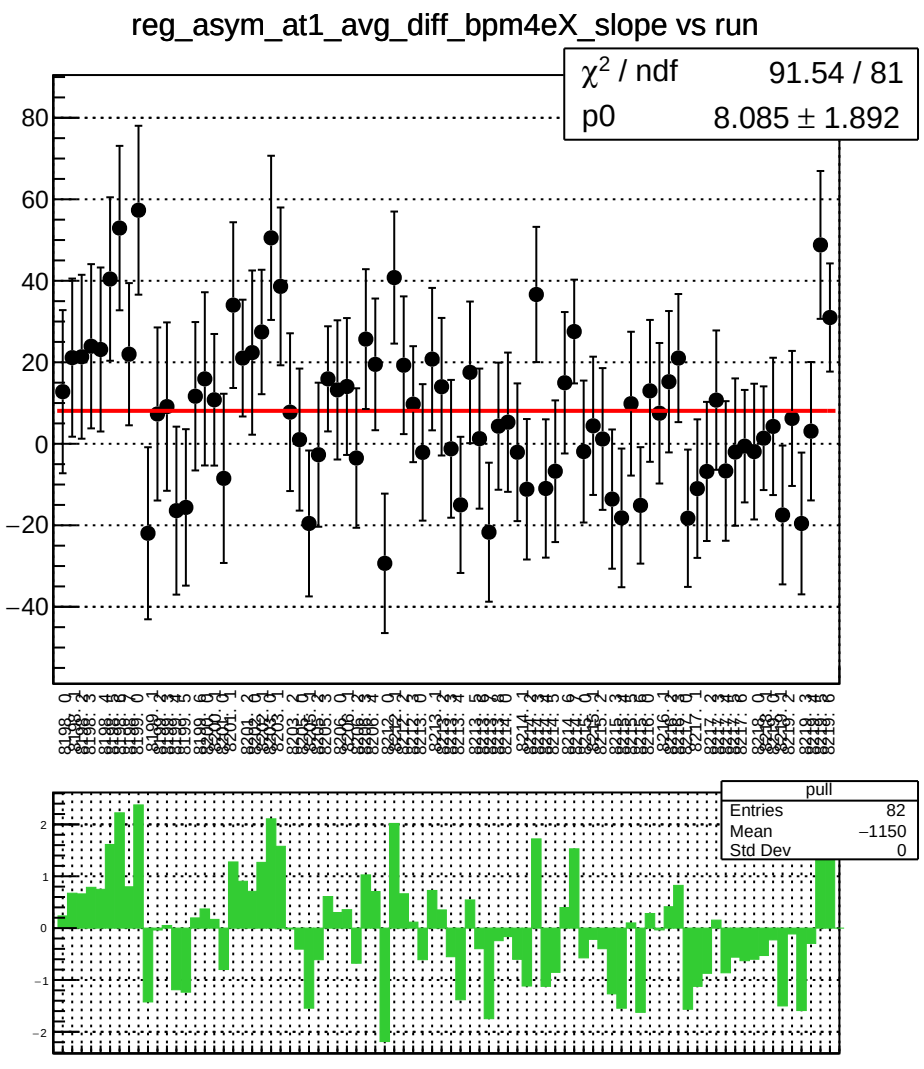

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 6.414 / 81
p0 124.1 ± 0.57
pull
Entries 82
Mean −3697
Std Dev 0
pull1D
Entries 82
Mean −0.000303
Std Dev 0.2797

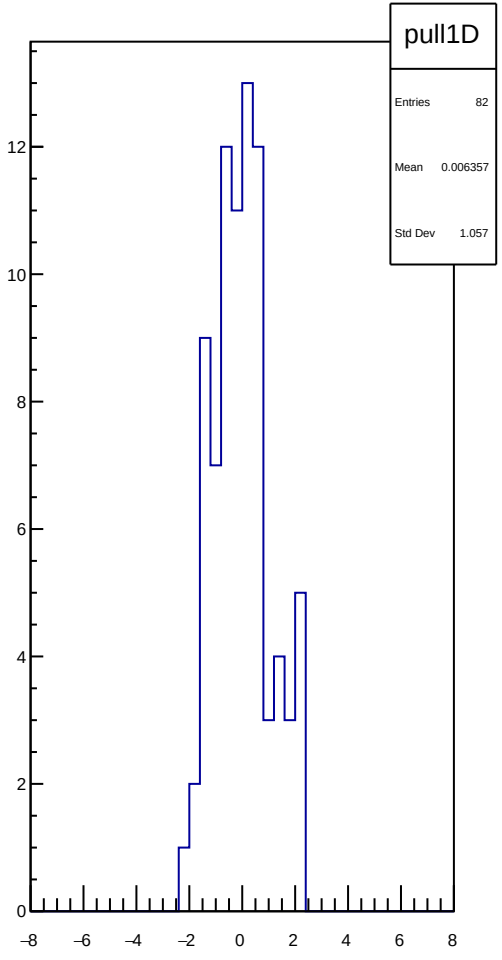

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 92.6 / 81
p0 −20.2 ± 1.885
pull
Entries 82
Mean −667
Std Dev 0

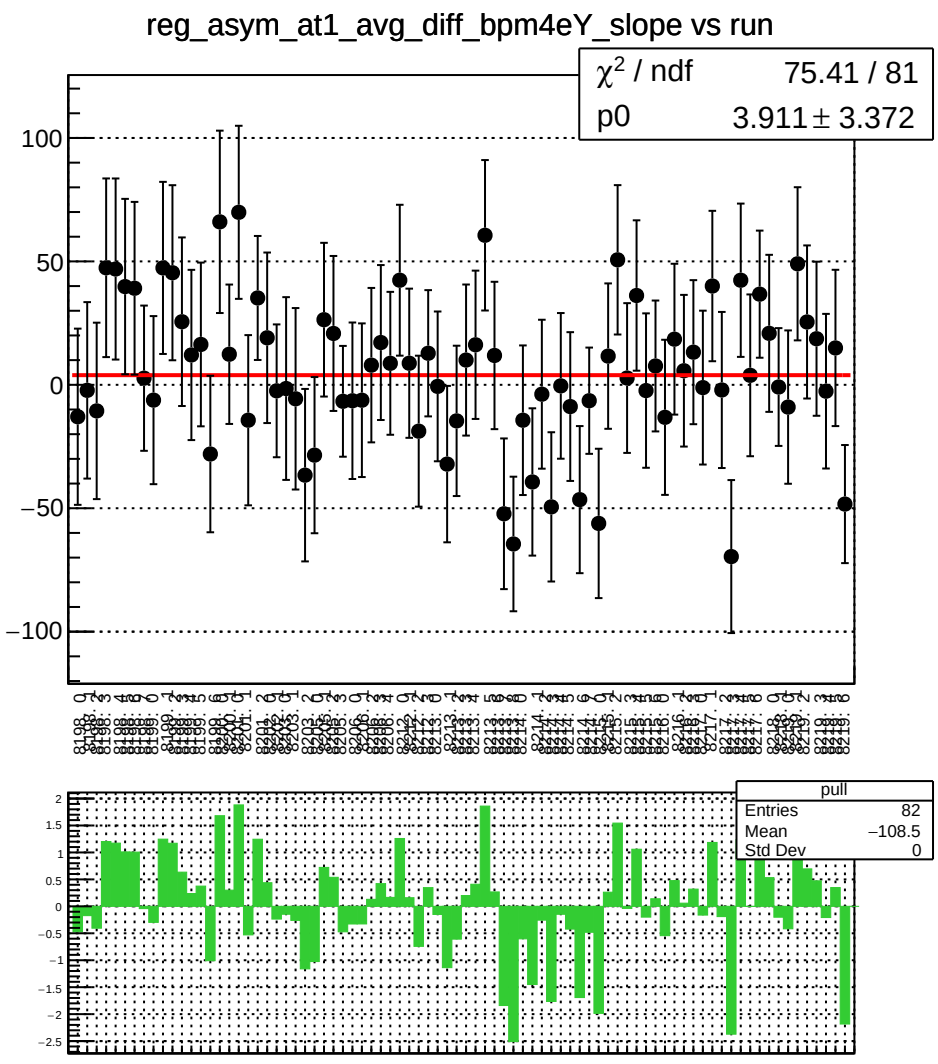

pull1D
Entries 82
Mean −0.0112
Std Dev 1.063

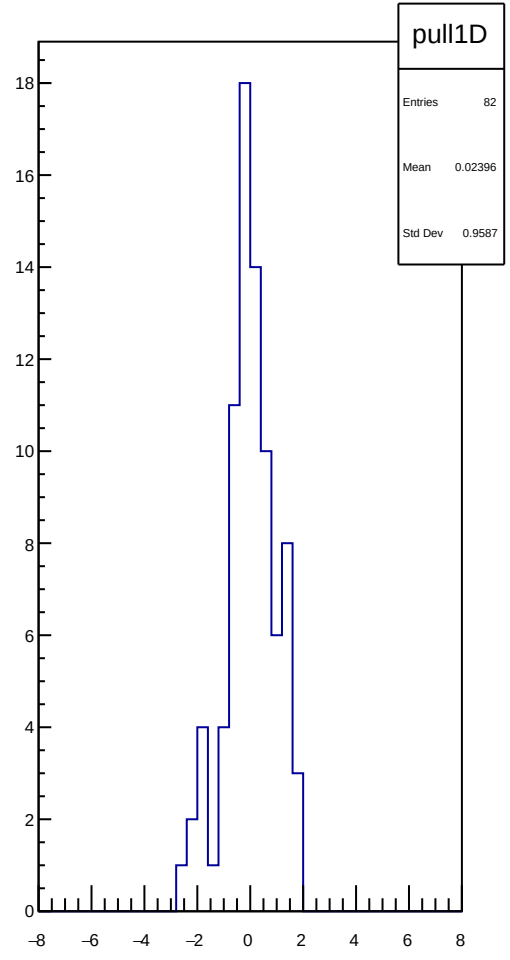

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 70.87 / 81
p0 −1.632 ± 3.136
100
50
0
−50
−100
pull
Entries 82
Mean −52.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

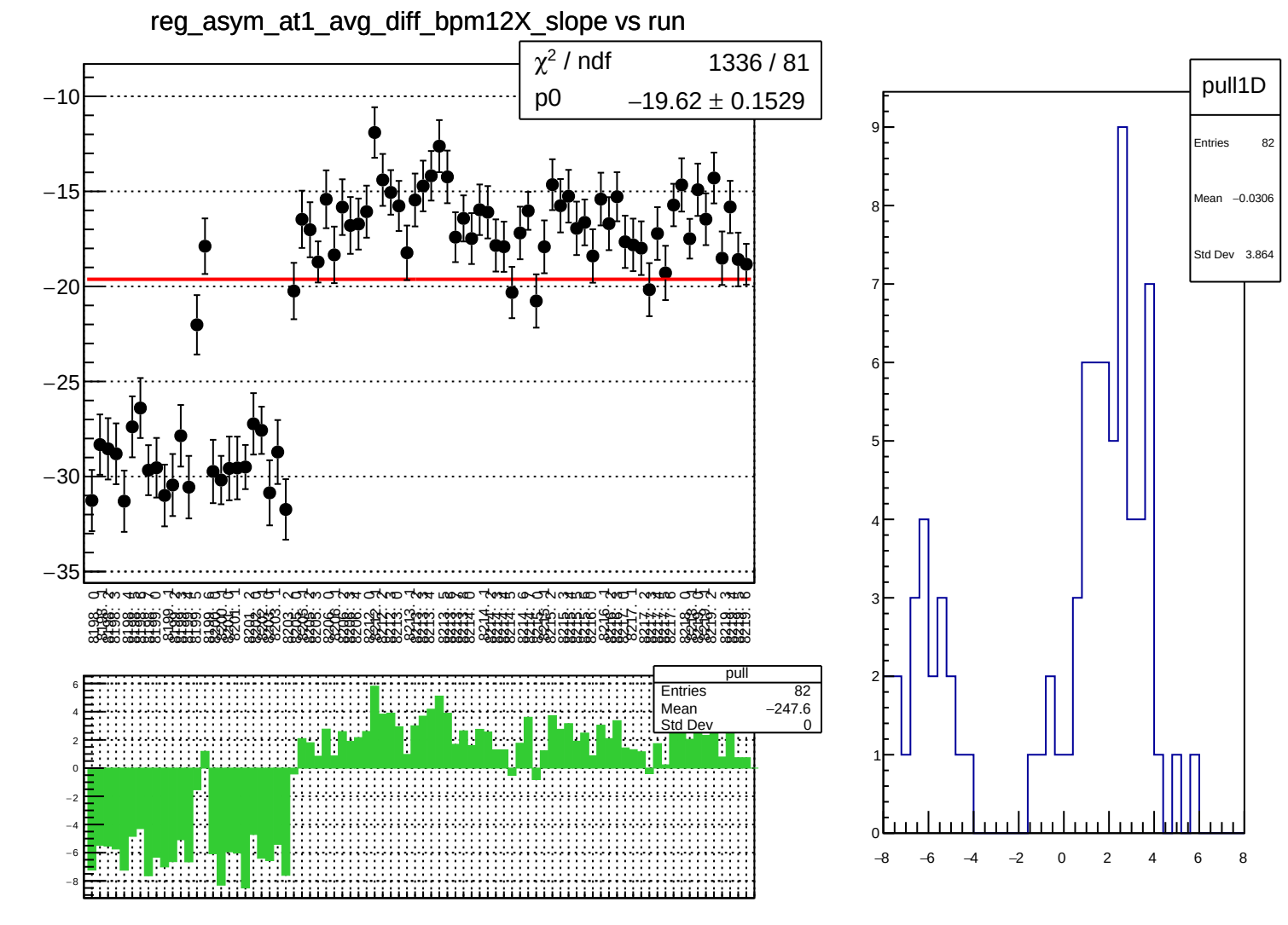

pull1D
Entries 82
Mean −0.01829
Std Dev 0.9295
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

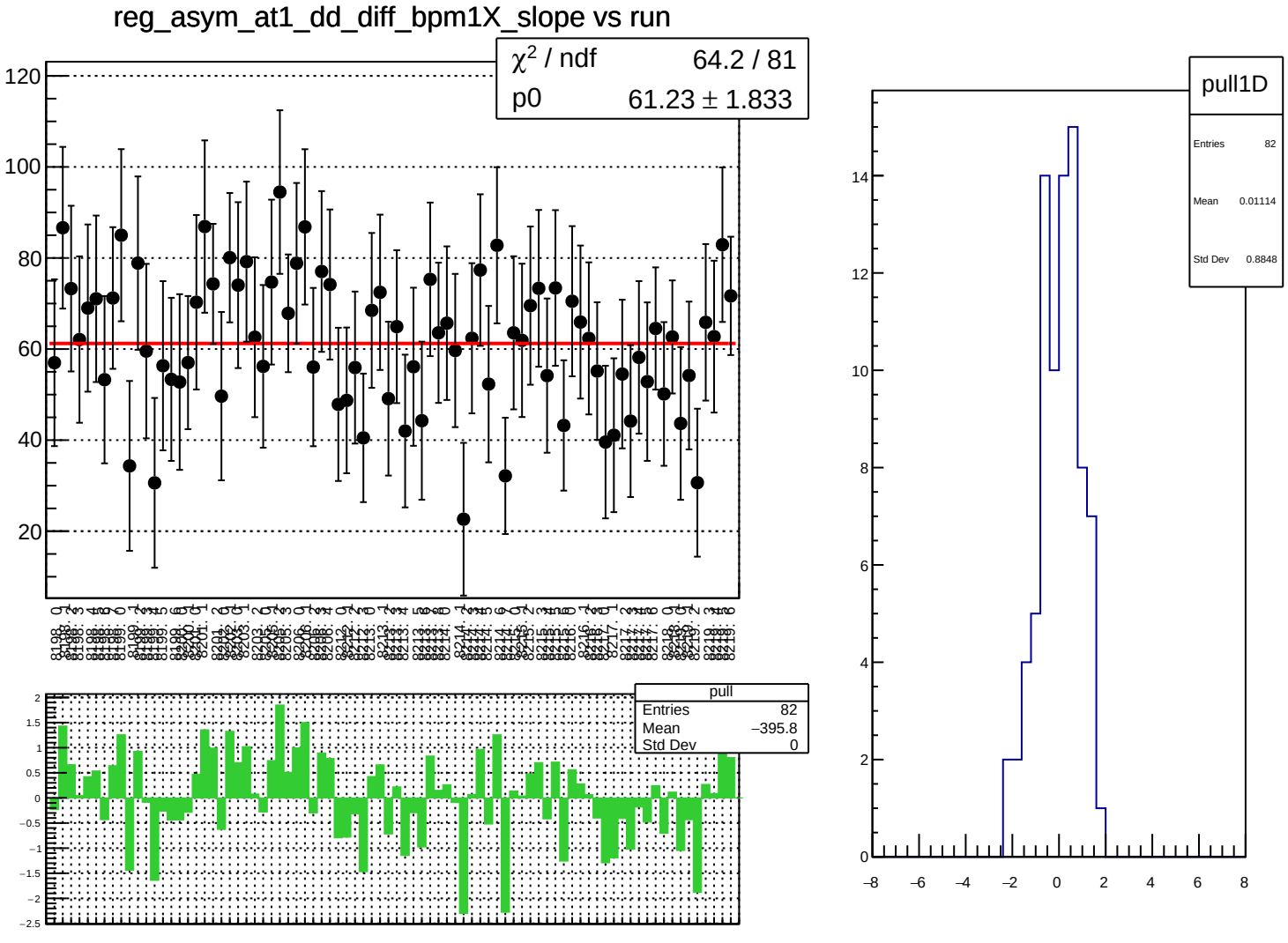

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 91.54 / 81
p0 8.085 ± 1.892
pull
Entries 82
Mean −1150
Std Dev 0

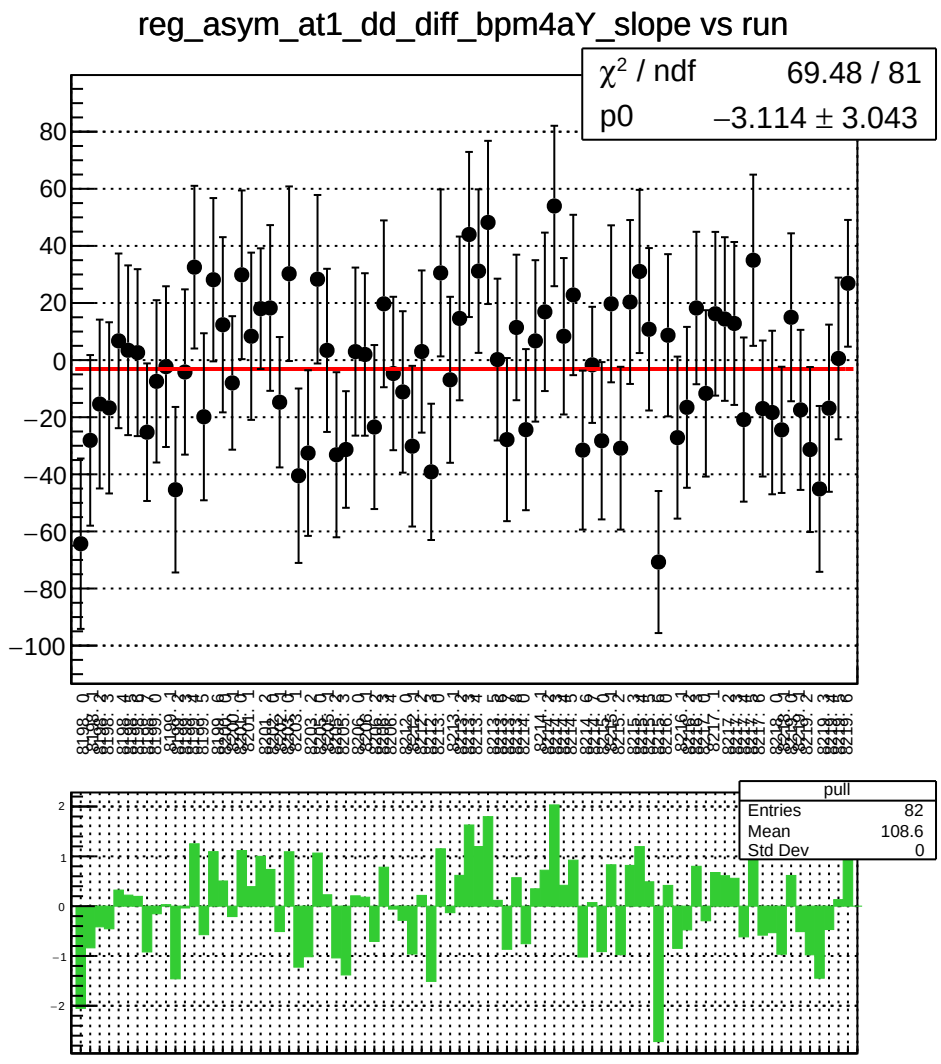

pull1D
Entries 82
Mean 0.006357
Std Dev 1.057

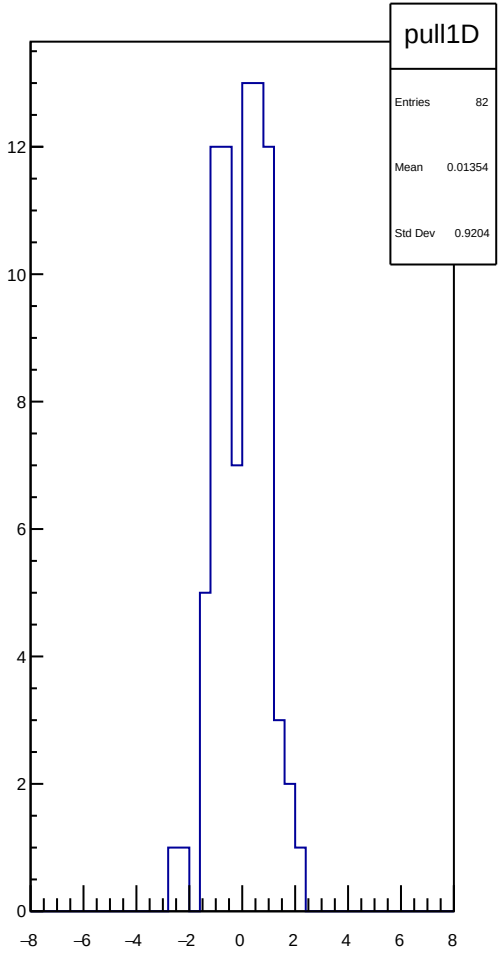

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.41 / 81
p0 3.911 ± 3.372
100
50
0
−50
−100
pull
Entries 82
Mean −108.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

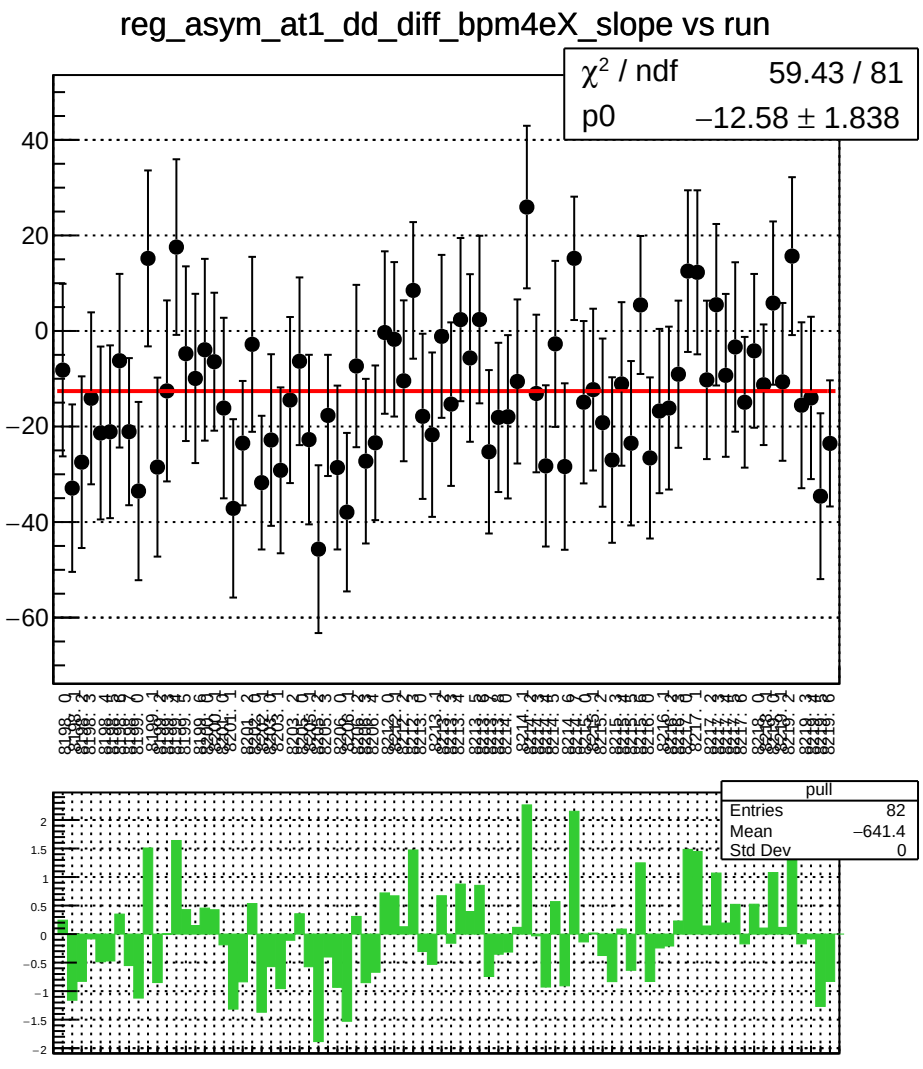

pull1D
Entries 82
Mean 0.02396
Std Dev 0.9587
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

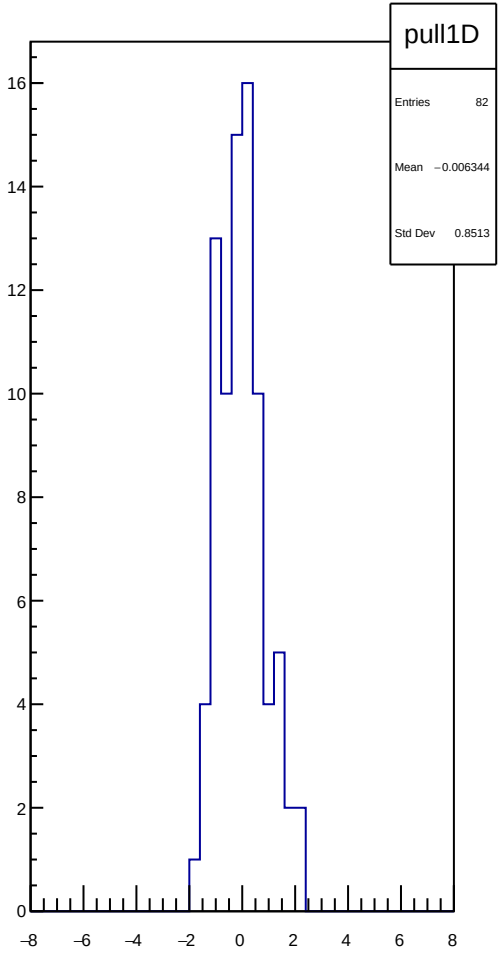

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 1336 / 81
p0 −19.62 ± 0.1529
pull
Entries 82
Mean −247.6
Std Dev 0
pull1D
Entries 82
Mean −0.0306
Std Dev 3.864

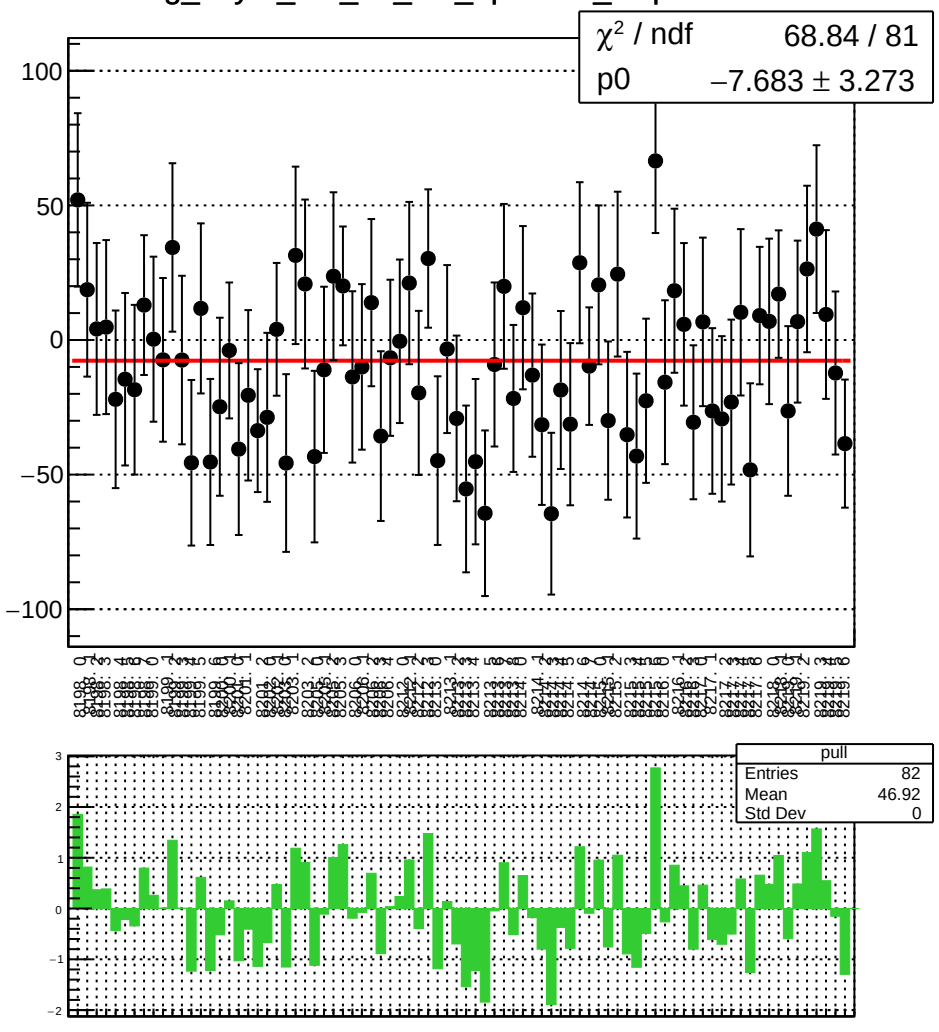

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 64.2 / 81
p0 61.23 ± 1.833
120
100
80
60
40
20
pull
Entries 82
Mean −395.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 82
Mean 0.01114
Std Dev 0.8848
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

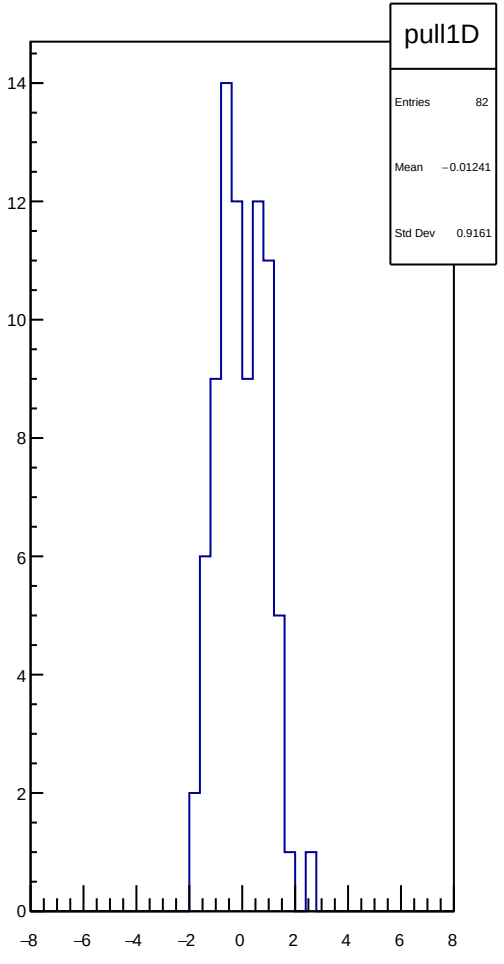

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.48 / 81
p0 −3.114 ± 3.043
pull
Entries 82
Mean 108.6
Std Dev 0

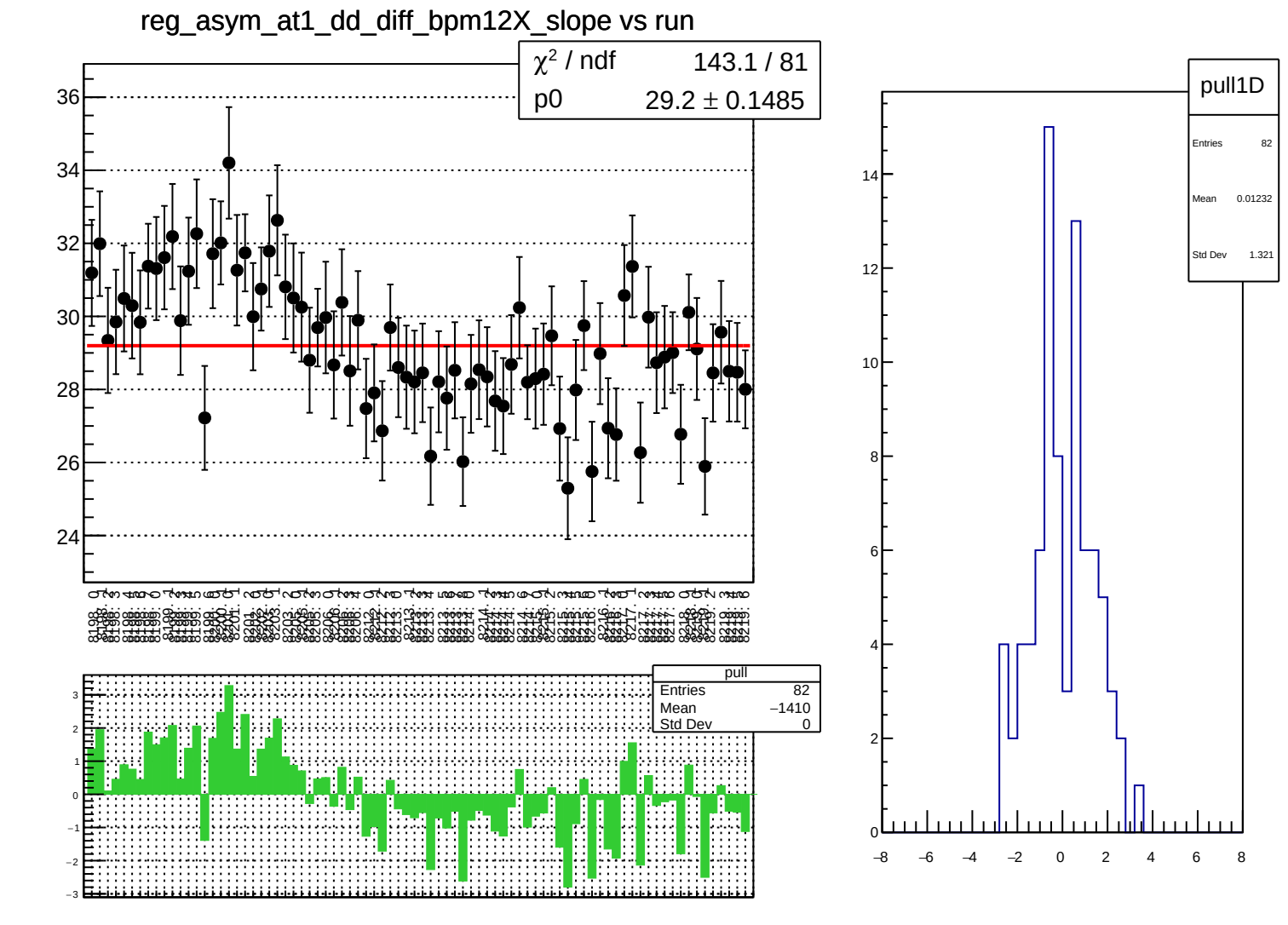

pull1D
Entries 82
Mean 0.01354
Std Dev 0.9204

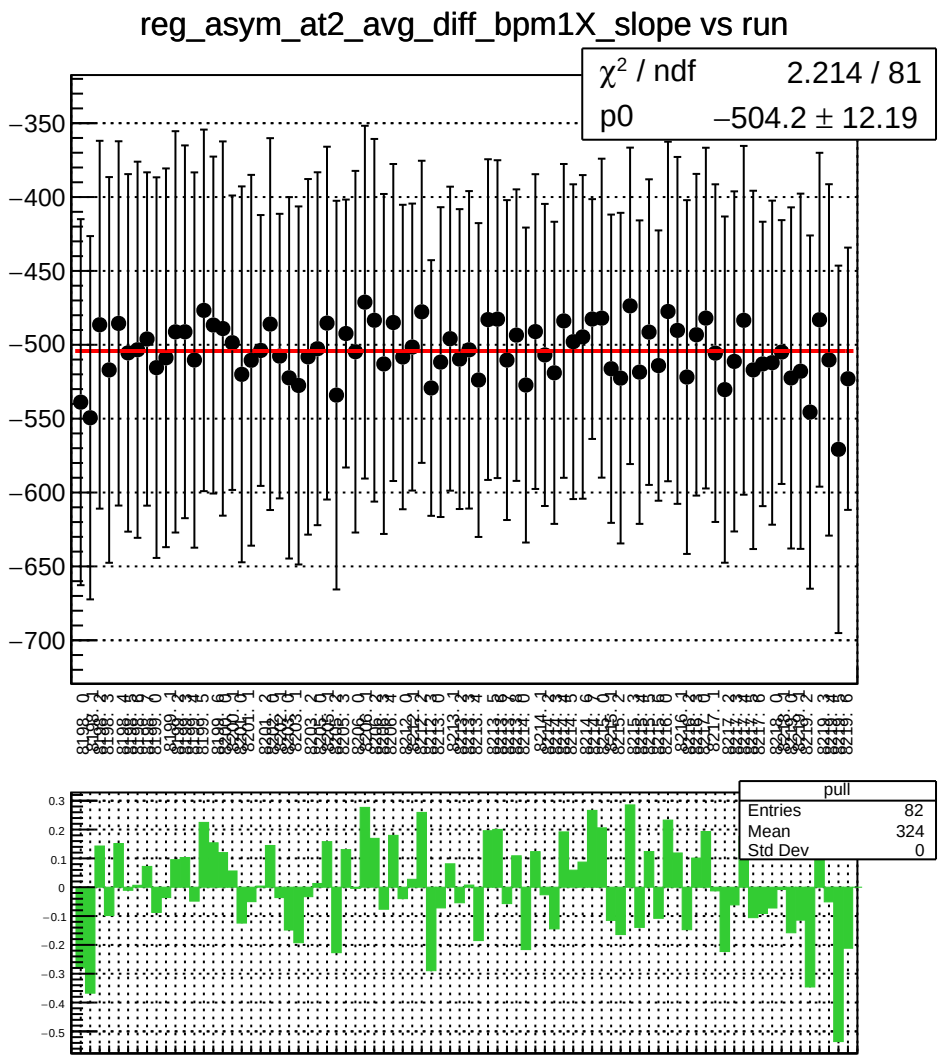

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.43 / 81
p0 −12.58 ± 1.838
pull
Entries 82
Mean −641.4
Std Dev 0

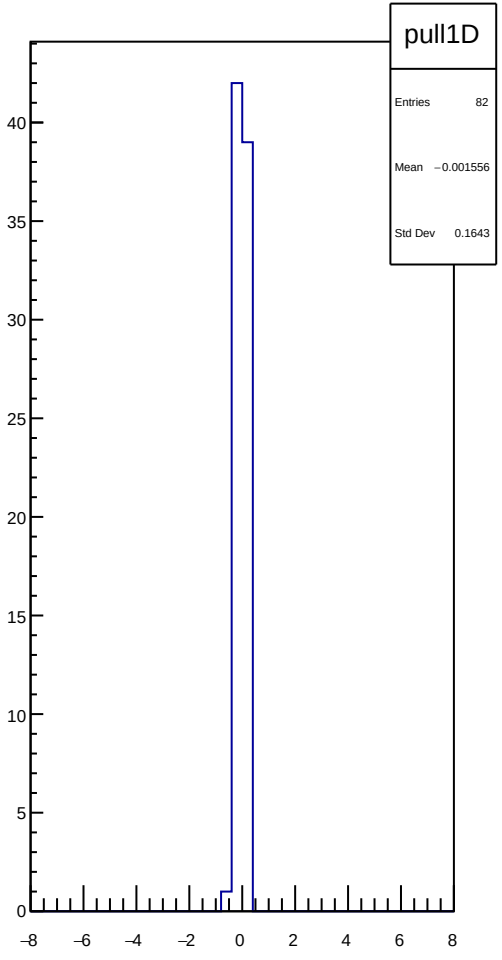

pull1D
Entries 82
Mean −0.006344
Std Dev 0.8513

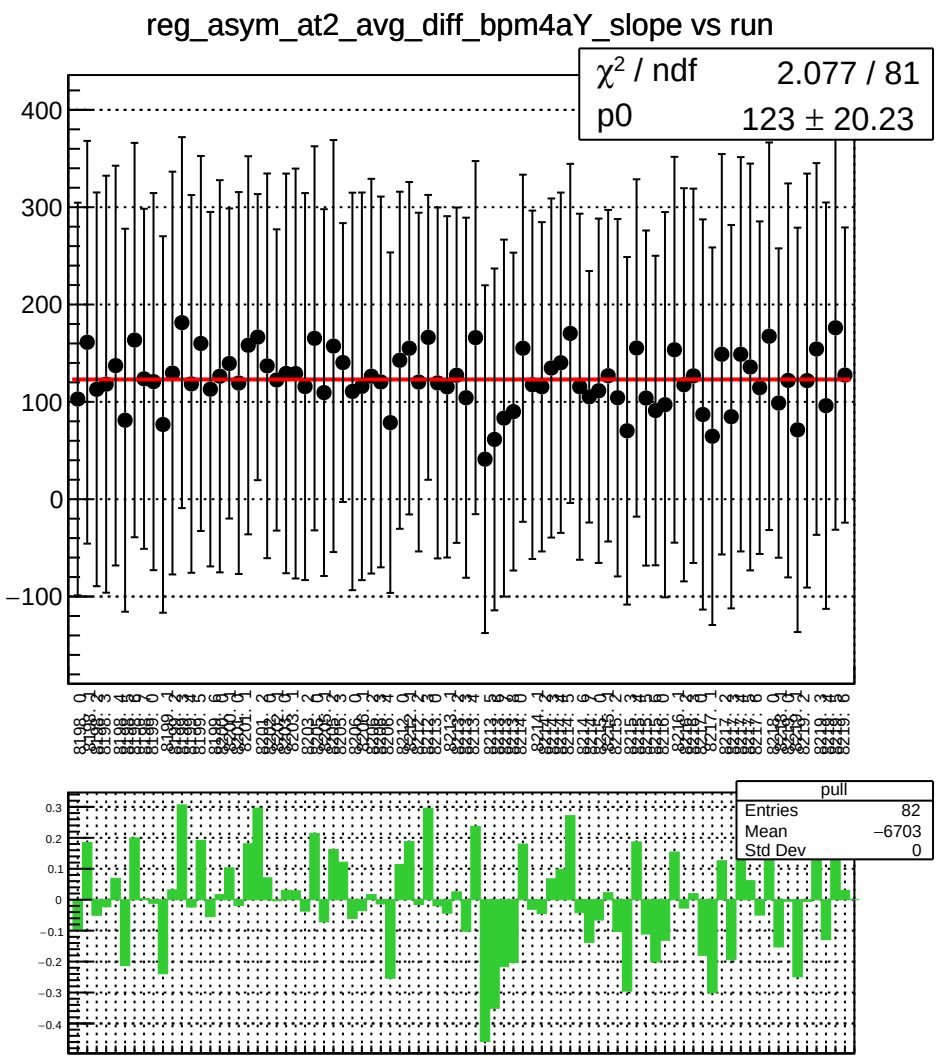

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.84 / 81
p0 −7.683 ± 3.273
pull
Entries 82
Mean 46.92
Std Dev 0

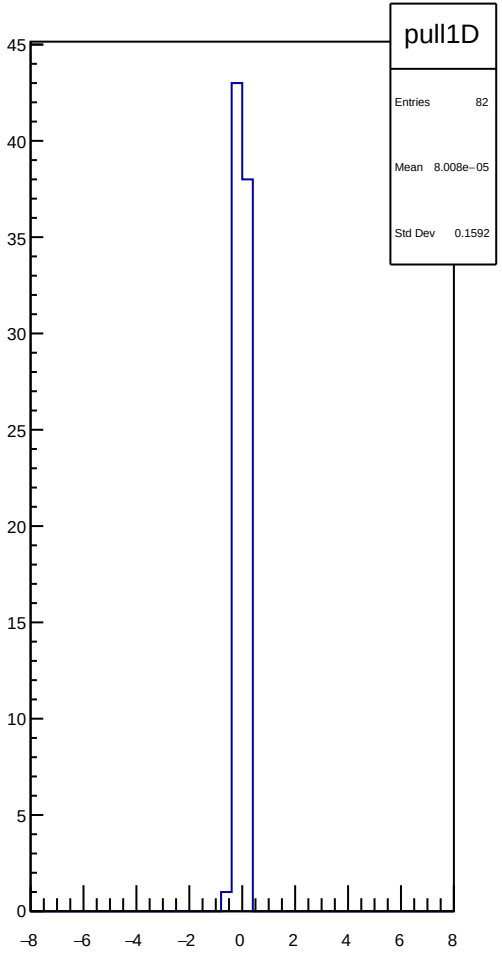

pull1D
Entries 82
Mean −0.01241
Std Dev 0.9161

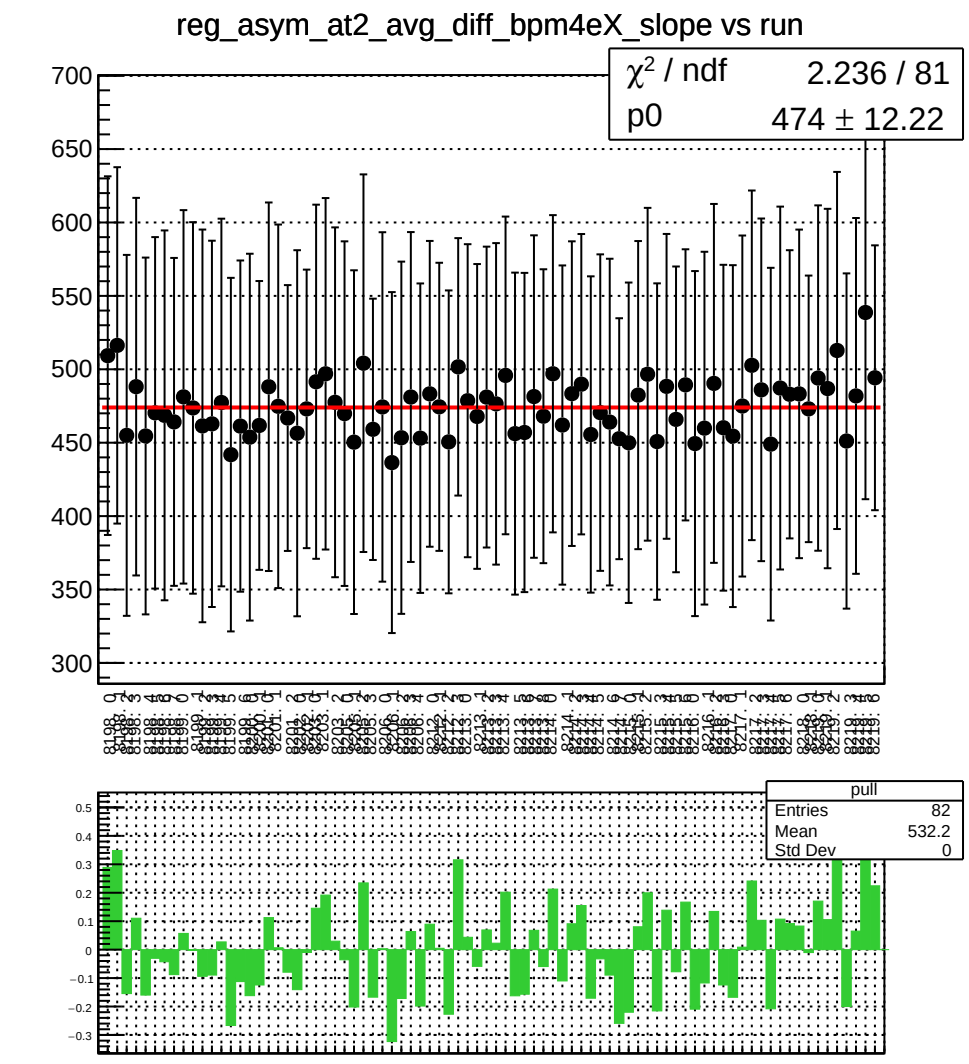

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 143.1 / 81
p0 29.2 ± 0.1485
pull
Entries 82
Mean −1410
Std Dev 0
pull1D
Entries 82
Mean 0.01232
Std Dev 1.321

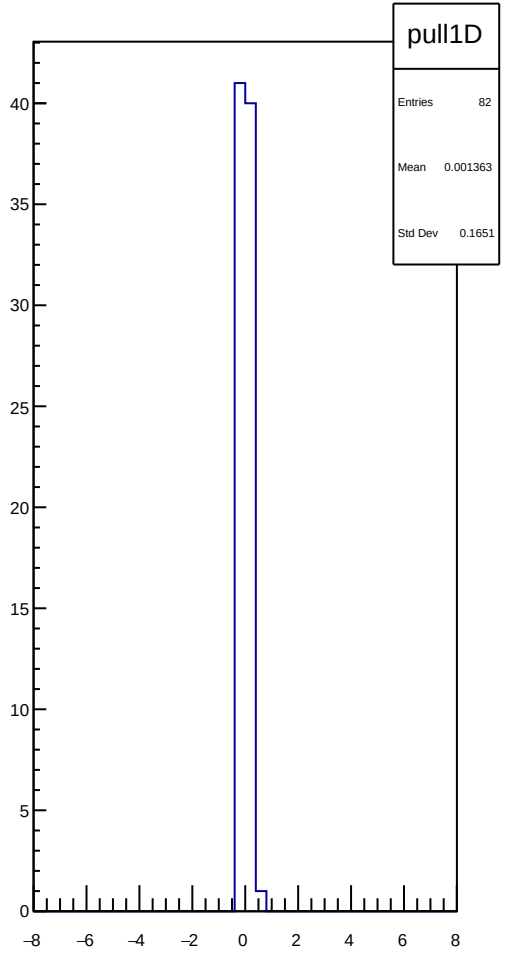

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 2.214 / 81
p0 −504.2 ± 12.19
pull
Entries 82
Mean 324
Std Dev 0

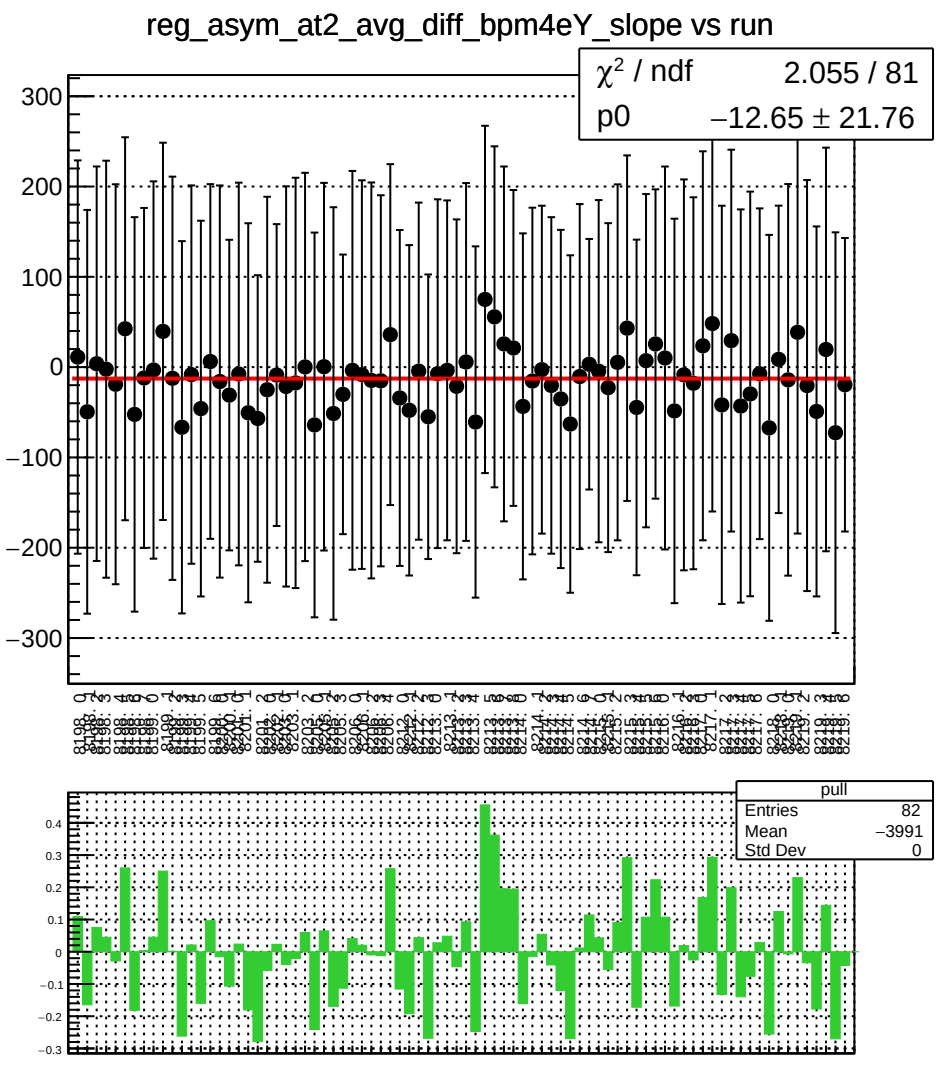

pull1D
Entries 82
Mean −0.001556
Std Dev 0.1643

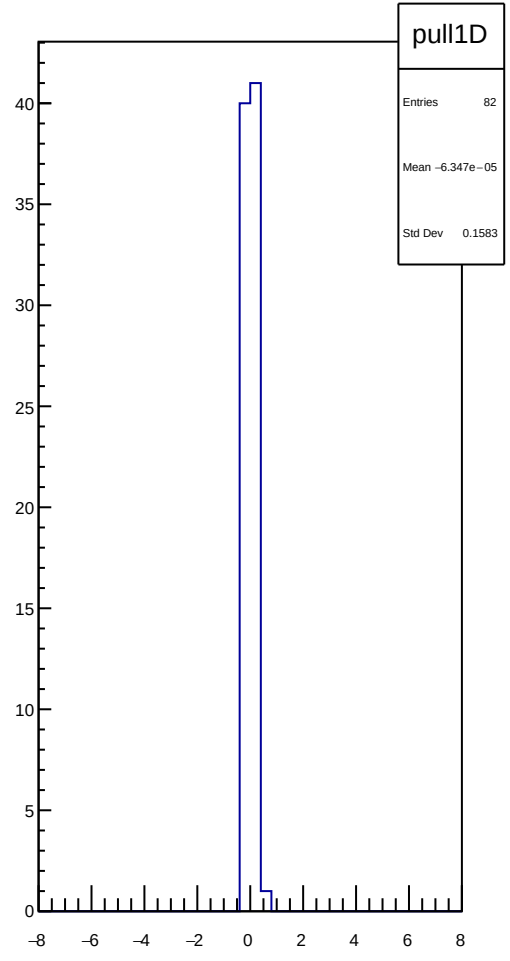

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.077 / 81
p0 123 ± 20.23
400
300
200
100
0
−100
pull
Entries 82
Mean −6703
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

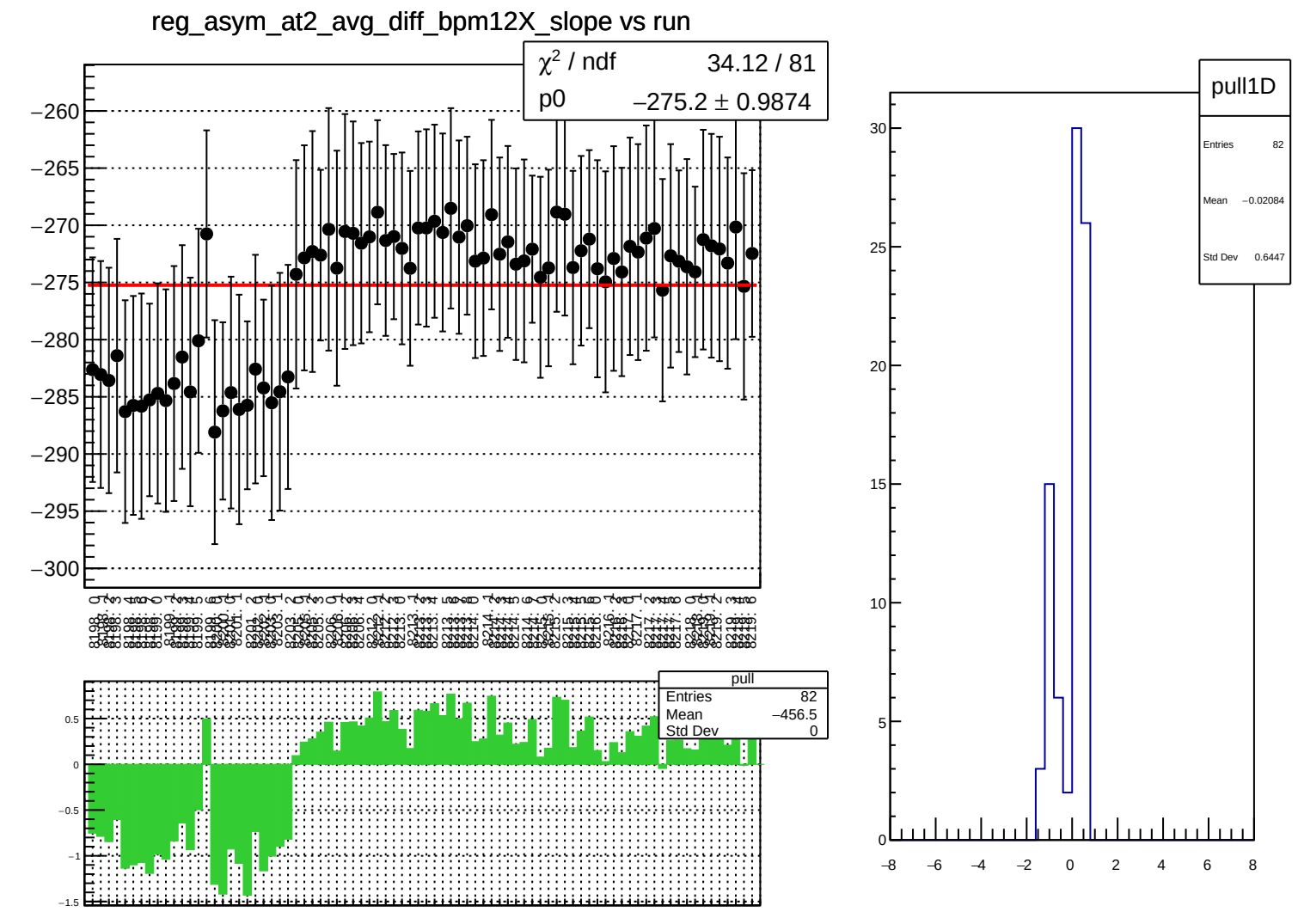

pull1D
Entries 82
Mean 8.008e−05
Std Dev 0.1592
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

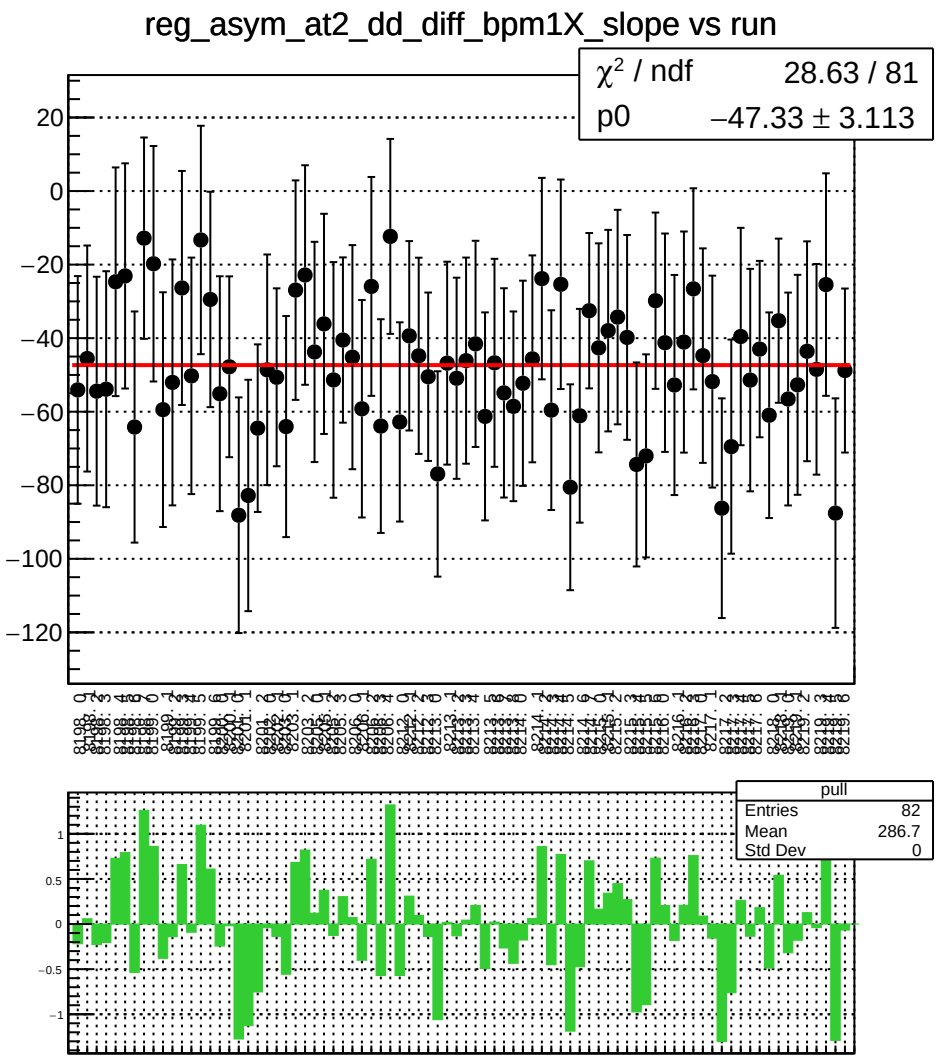

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.236 / 81
p0 474 ± 12.22
pull
Entries 82
Mean 532.2
Std Dev 0

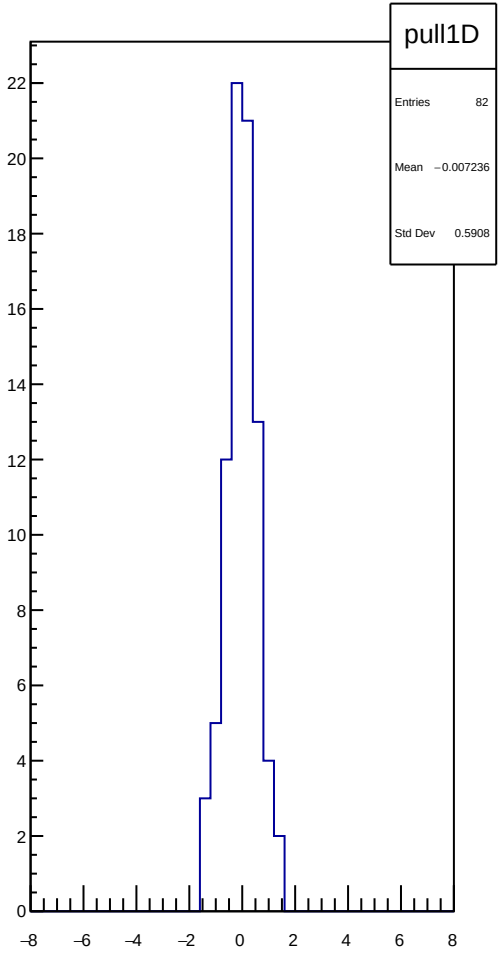

pull1D
Entries 82
Mean 0.001363
Std Dev 0.1651

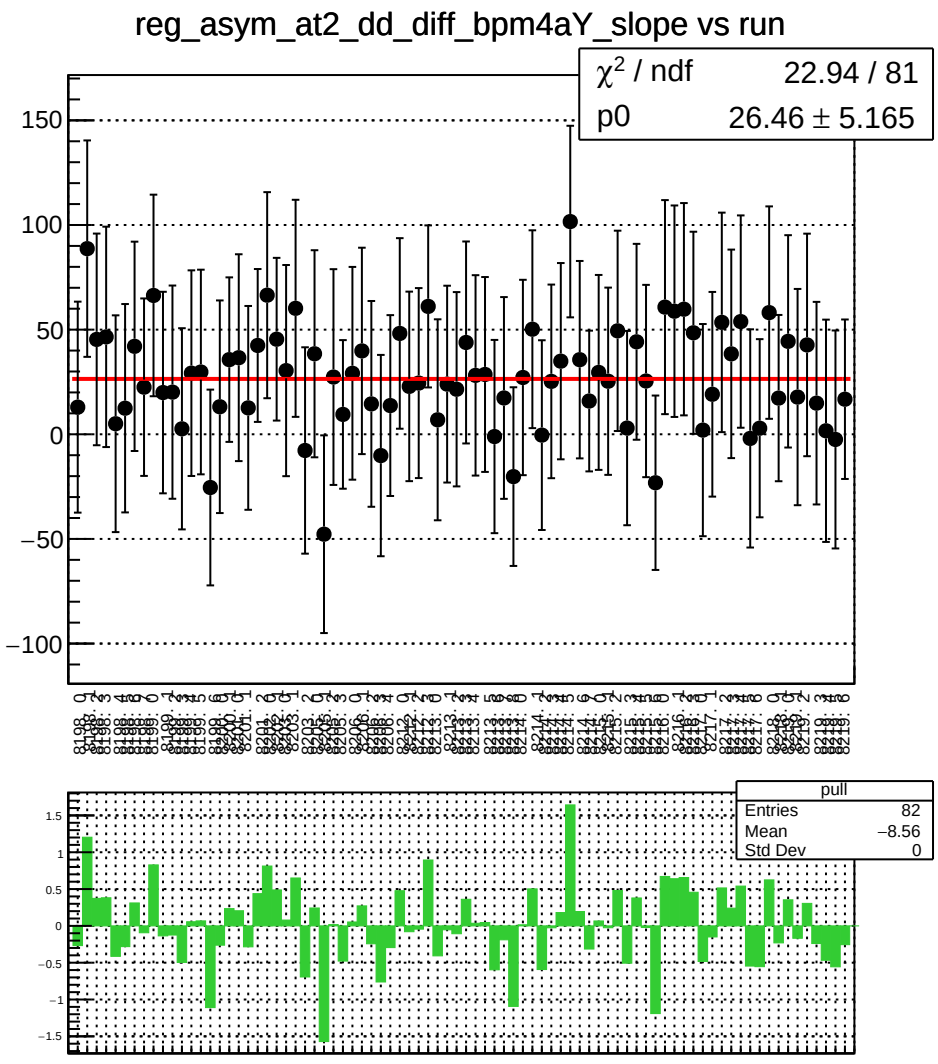

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.055 / 81
p0 −12.65 ± 21.76
pull
Entries 82
Mean −3991
Std Dev 0

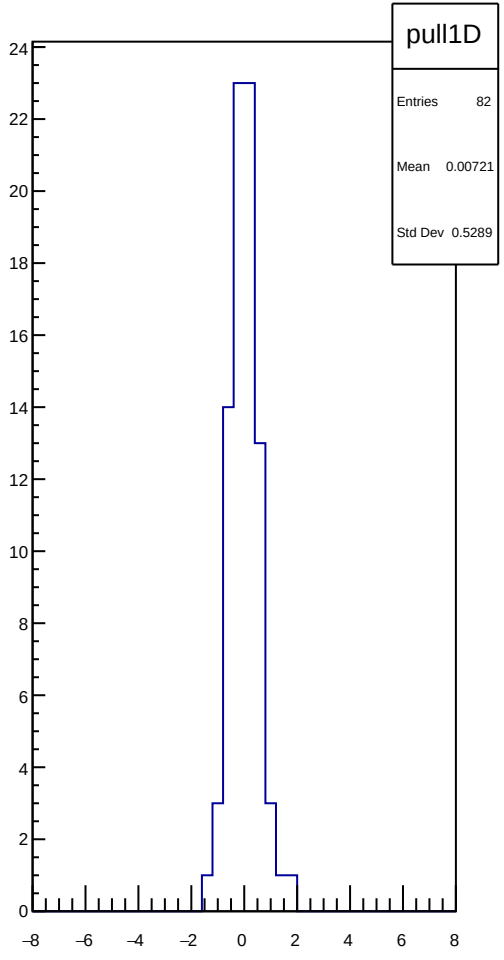

pull1D
Entries 82
Mean −6.347e−05
Std Dev 0.1583

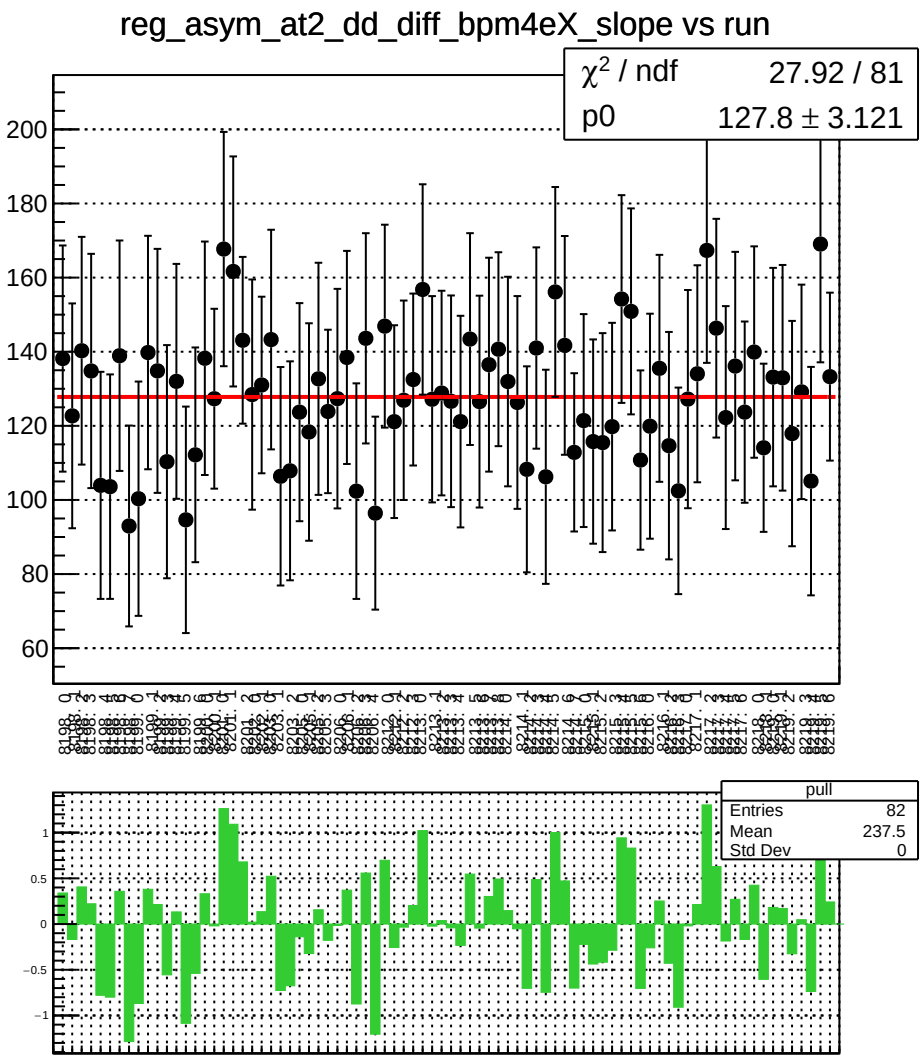

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 34.12 / 81
p0 −275.2 ± 0.9874
pull
Entries 82
Mean −456.5
Std Dev 0
pull1D
Entries 82
Mean −0.02084
Std Dev 0.6447

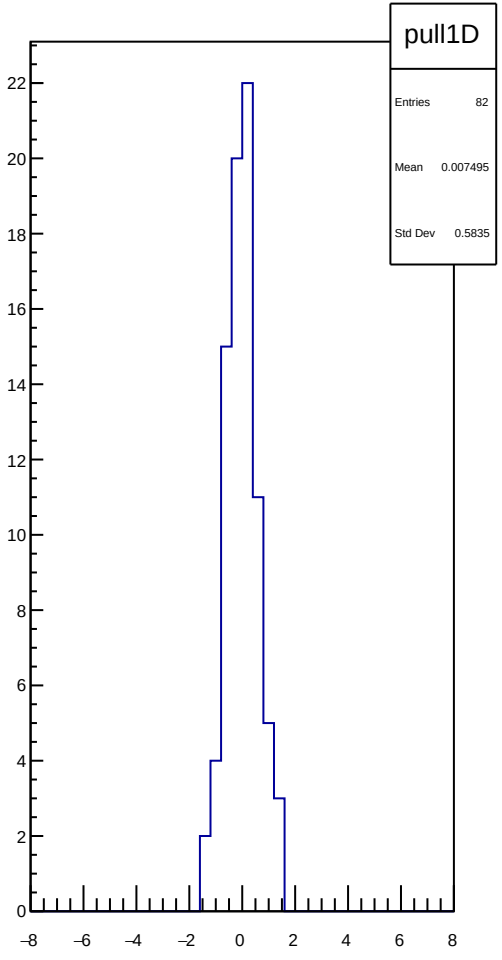

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 28.63 / 81
p0 −47.33 ± 3.113
pull
Entries 82
Mean 286.7
Std Dev 0

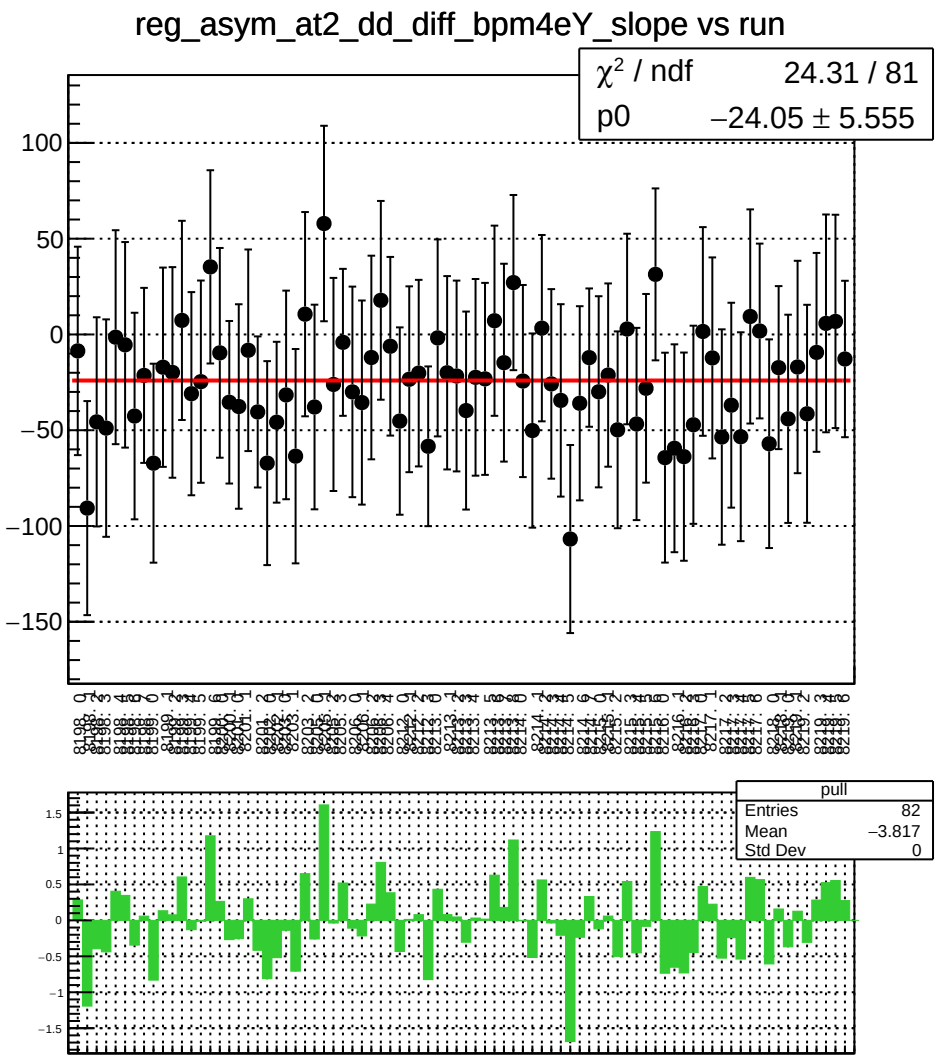

pull1D
Entries 82
Mean −0.007236
Std Dev 0.5908

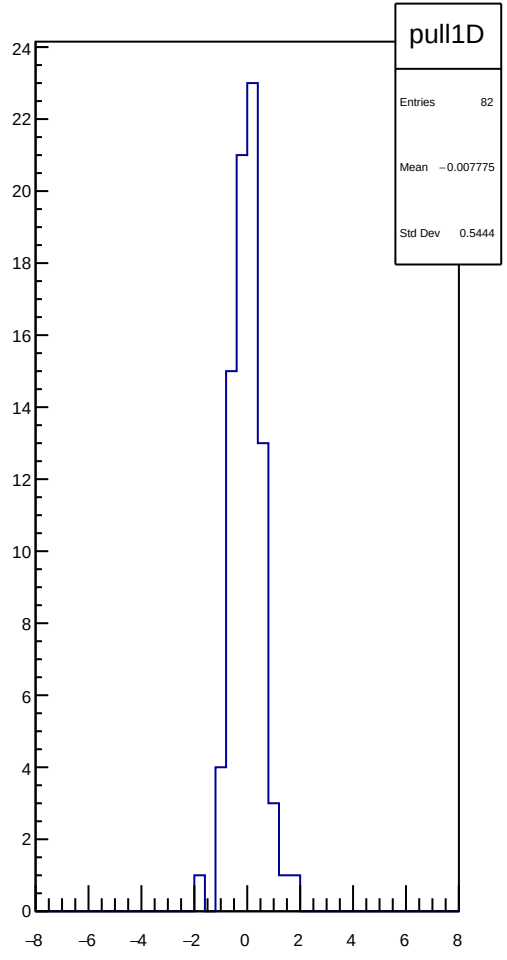

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.94 / 81
p0 26.46 ± 5.165
150
100
50
0
−50
−100
pull
Entries 82
Mean −8.56
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

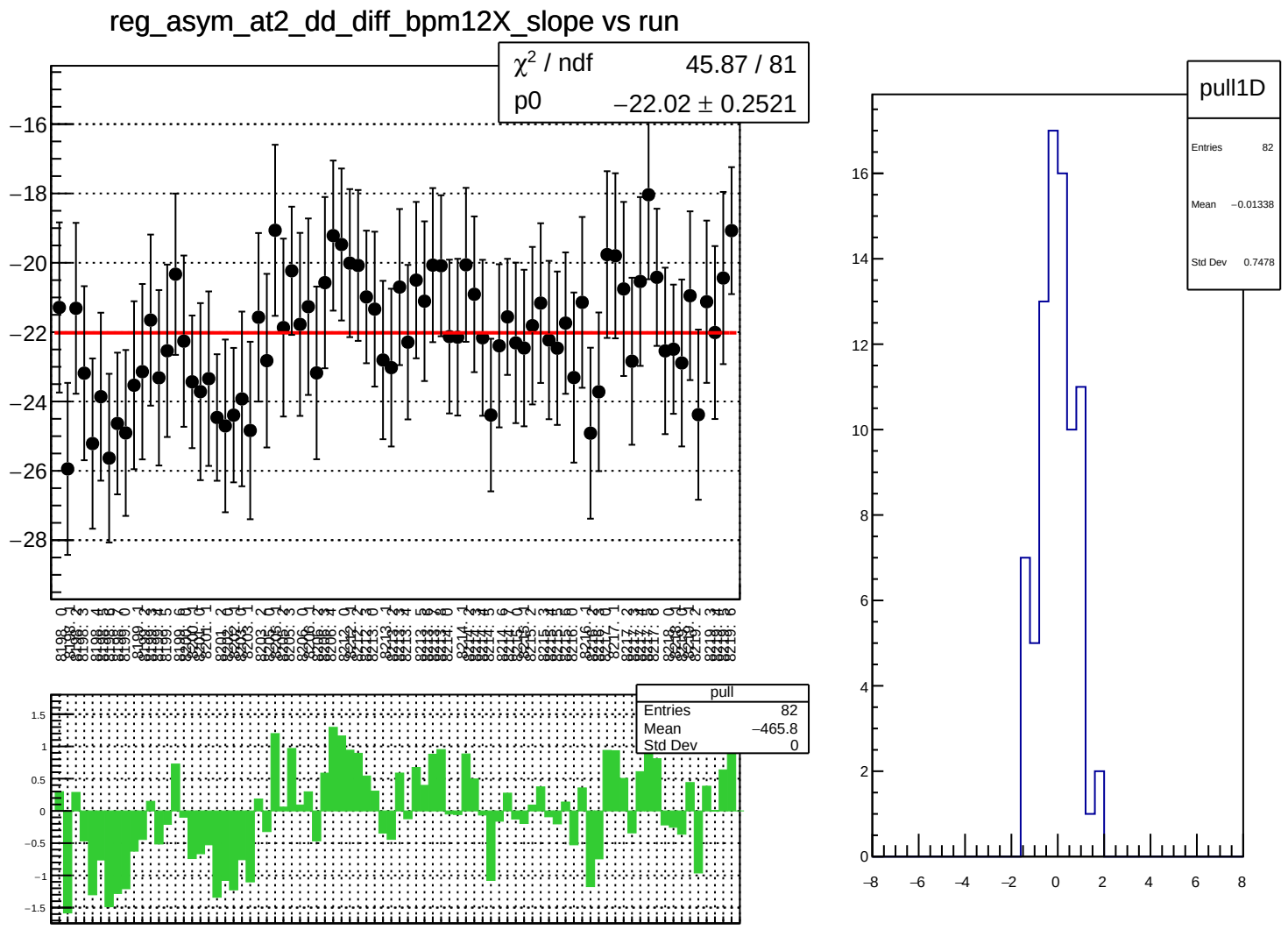

pull1D
Entries 82
Mean 0.00721
Std Dev 0.5289
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

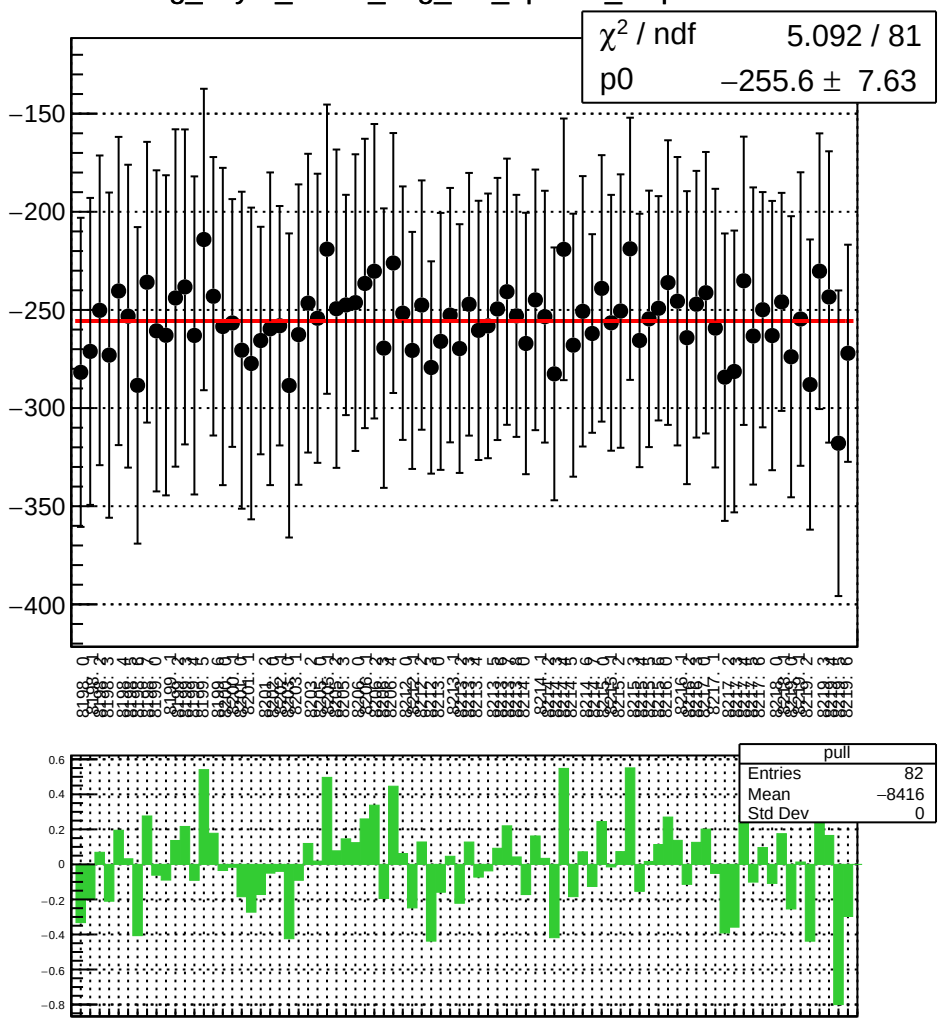

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.92 / 81
p0 127.8 ± 3.121
pull
Entries 82
Mean 237.5
Std Dev 0

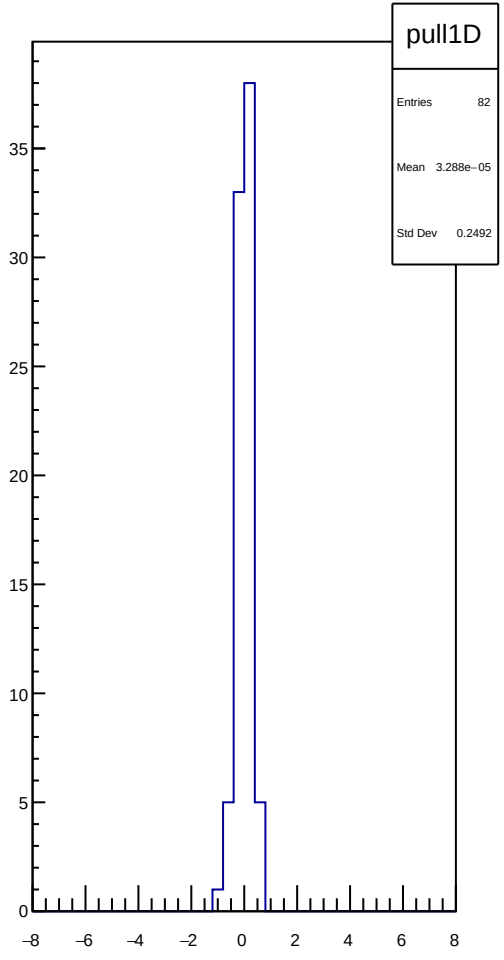

pull1D
Entries 82
Mean 0.007495
Std Dev 0.5835

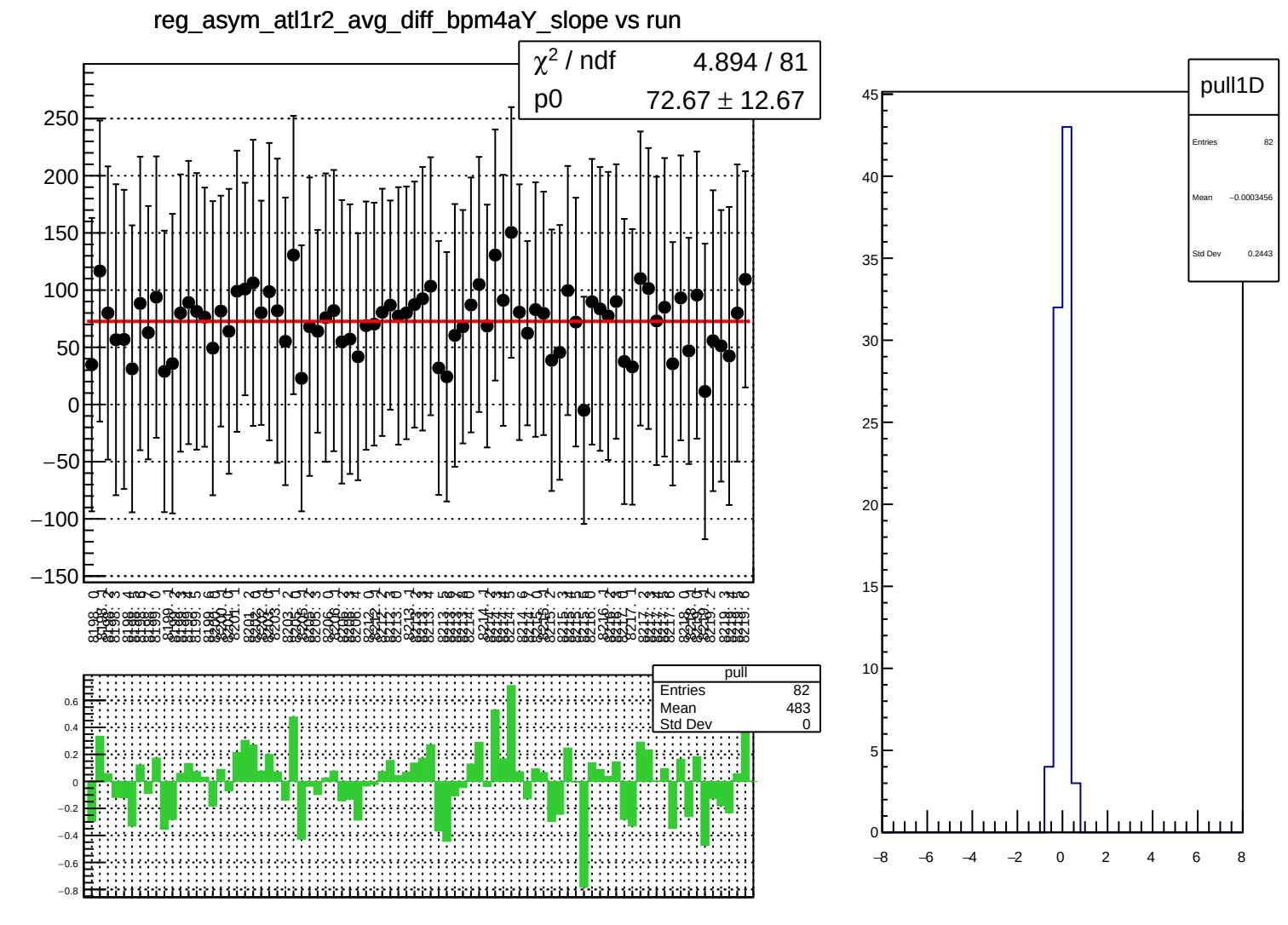

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.31 / 81
p0 −24.05 ± 5.555
100
50
0
−50
−100
−150
pull
Entries 82
Mean −3.817
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

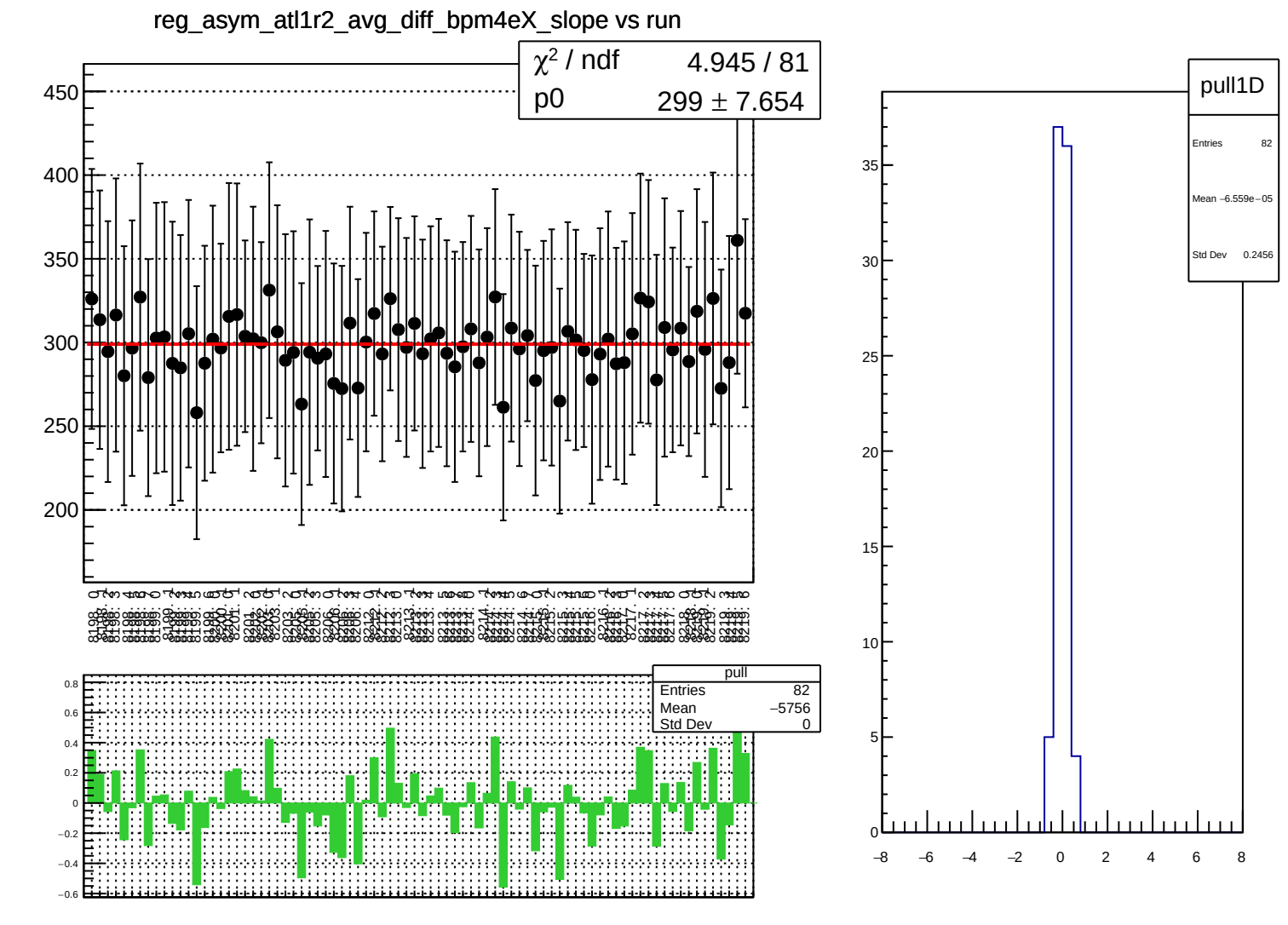

pull1D
Entries 82
Mean −0.007775
Std Dev 0.5444
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

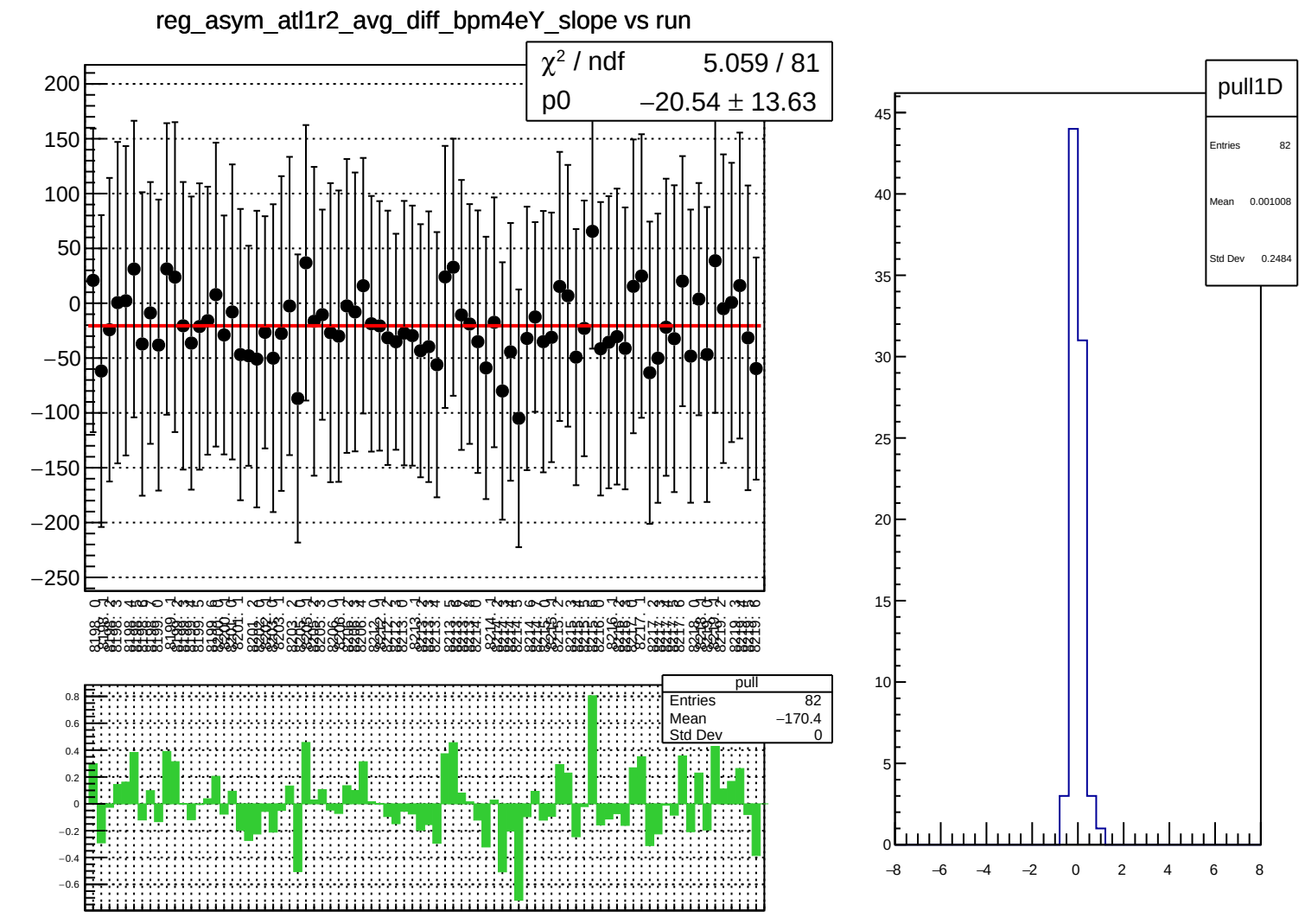

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 45.87 / 81
p0 −22.02 ± 0.2521
pull
Entries 82
Mean −465.8
Std Dev 0
pull1D
Entries 82
Mean −0.01338
Std Dev 0.7478

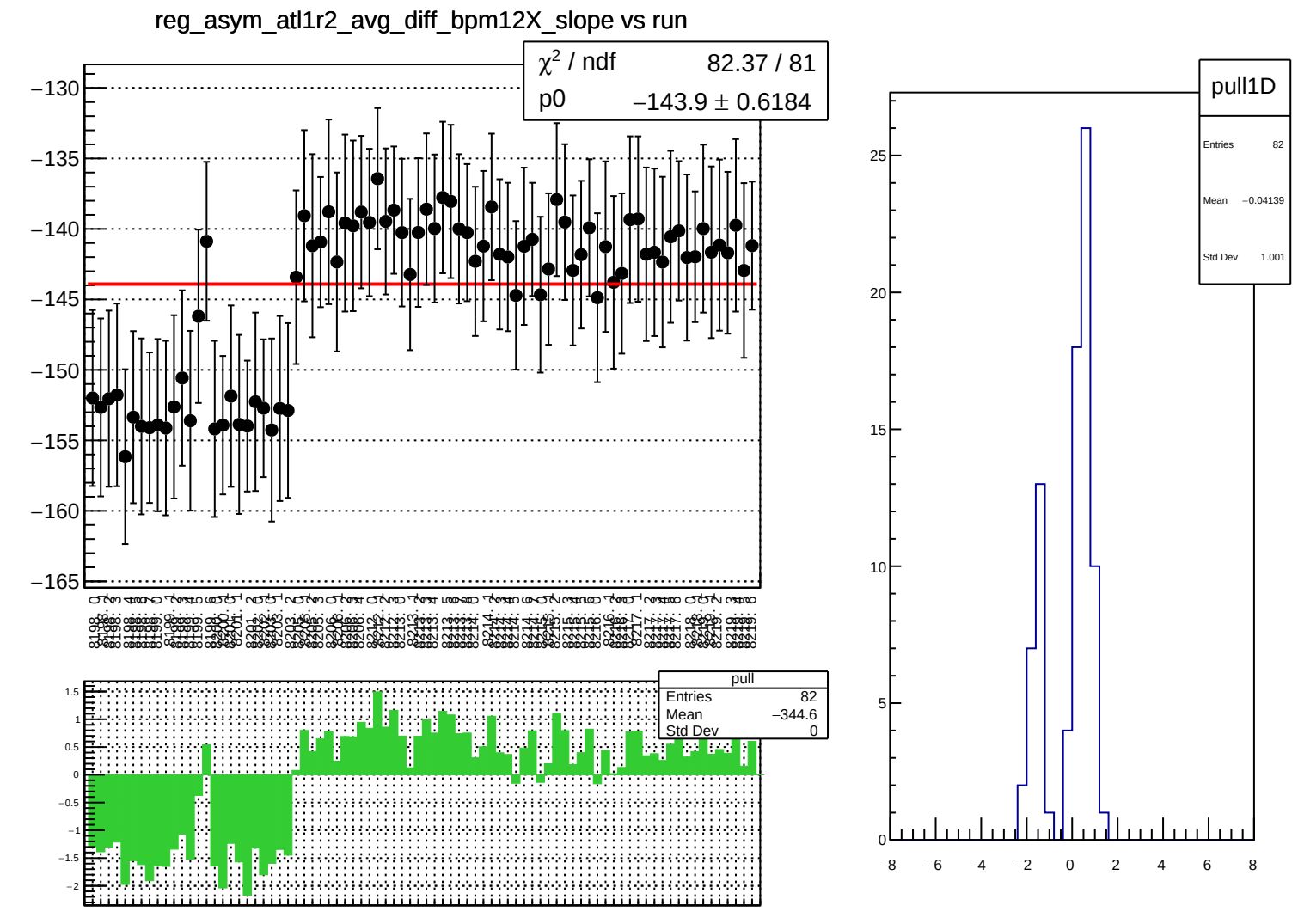

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 5.092 / 81
p0 −255.6 ± 7.63
−150
−200
−250
−300
−350
−400
pull
Entries 82
Mean −8416
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

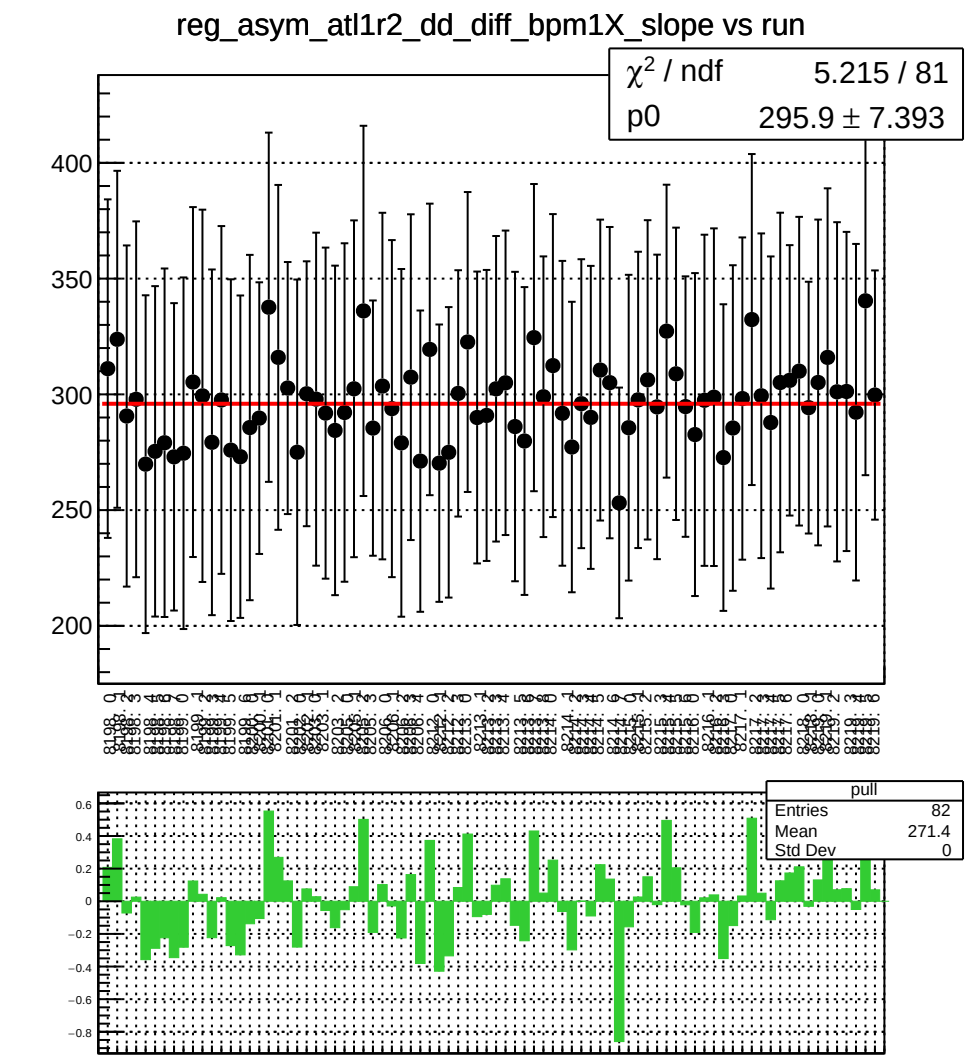

pull1D
Entries 82
Mean 3.288e−05
Std Dev 0.2492
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

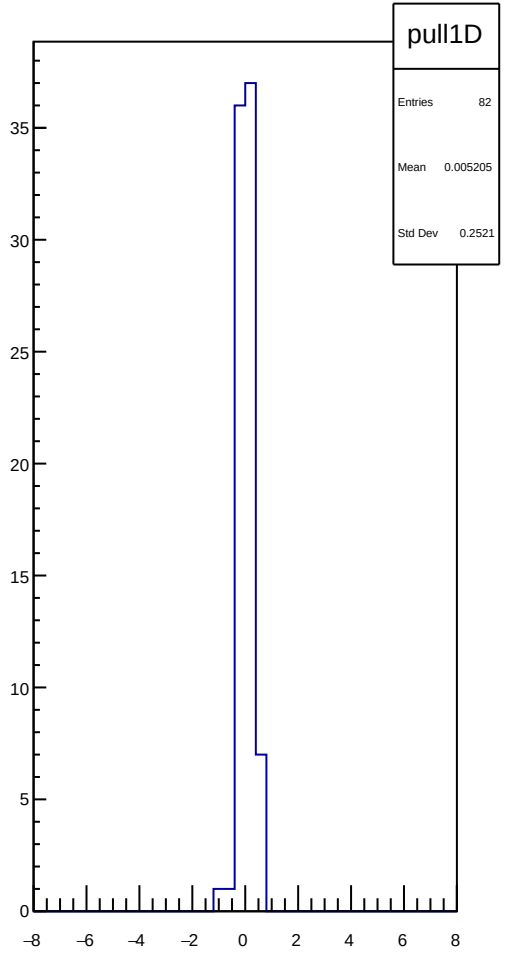

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.894 / 81
p0 72.67 ± 12.67
pull
Entries 82
Mean 483
Std Dev 0
pull1D
Entries 82
Mean −0.0003456
Std Dev 0.2443

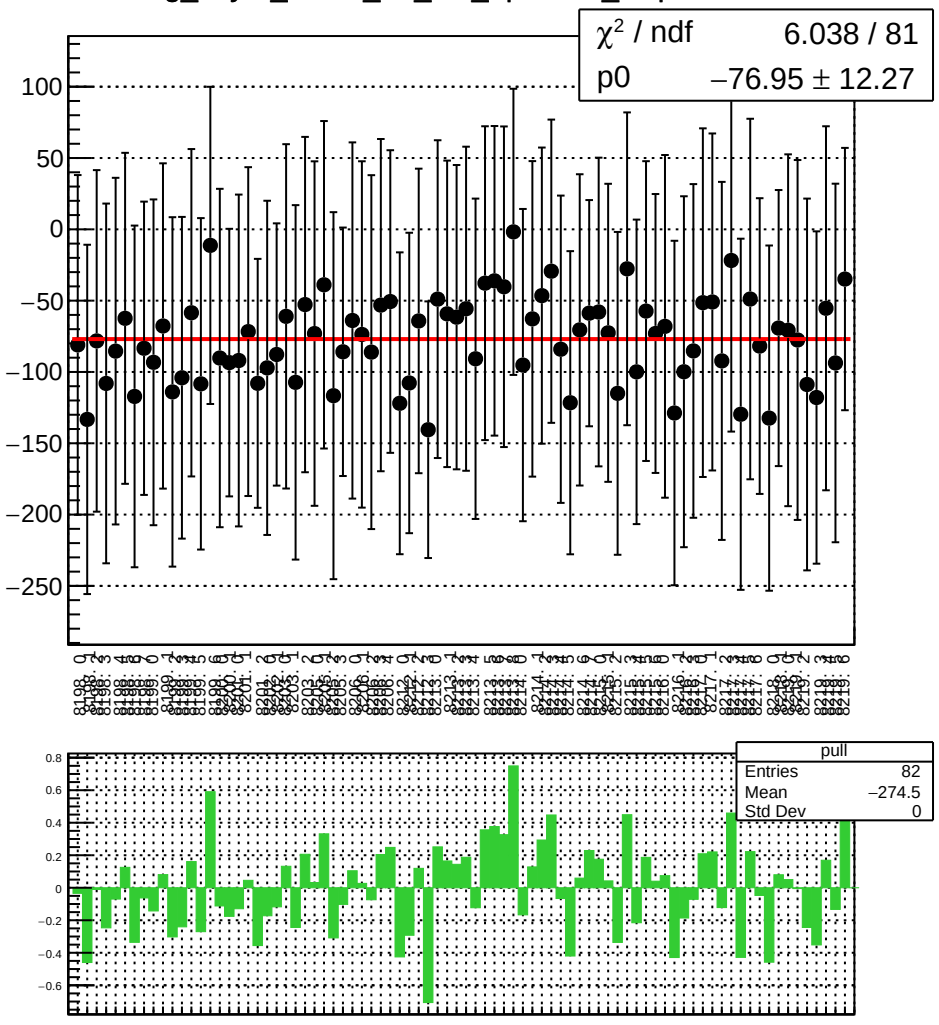

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.945 / 81
p0 299 ± 7.654
pull
Entries 82
Mean −5756
Std Dev 0
pull1D
Entries 82
Mean −6.559e−05
Std Dev 0.2456

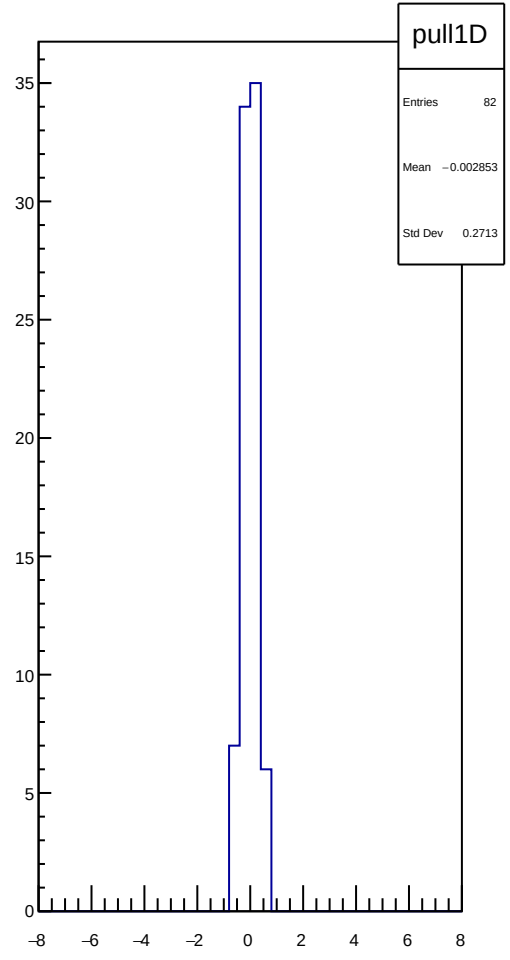

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.059 / 81
p0 −20.54 ± 13.63
pull
Entries 82
Mean −170.4
Std Dev 0
pull1D
Entries 82
Mean 0.001008
Std Dev 0.2484

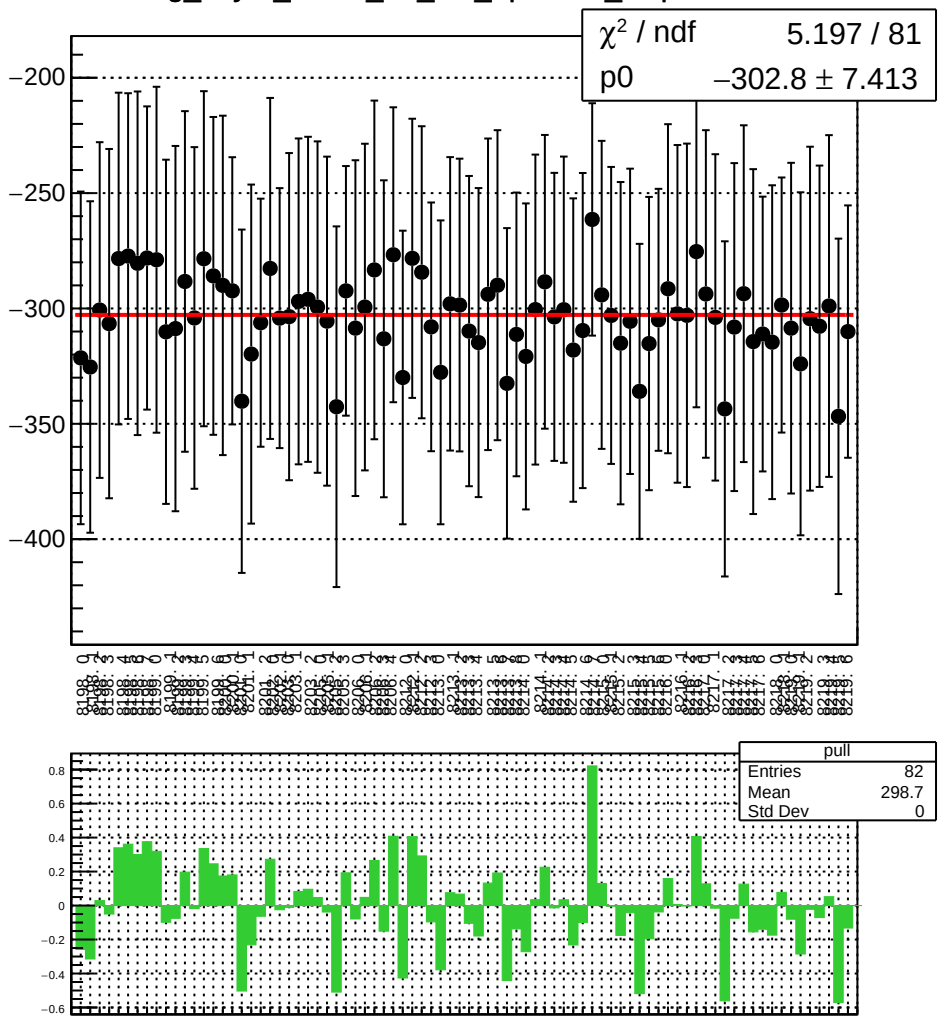

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 82.37 / 81
p0 −143.9 ± 0.6184
pull
Entries 82
Mean −344.6
Std Dev 0
pull1D
Entries 82
Mean −0.04139
Std Dev 1.001

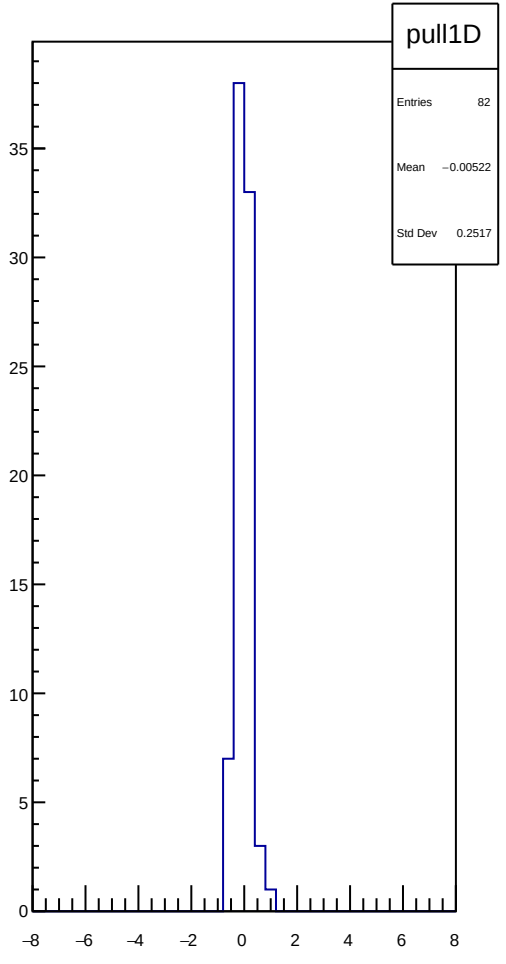

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.215 / 81
p0 295.9 ± 7.393
400
350
300
250
200
pull
Entries 82
Mean 271.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

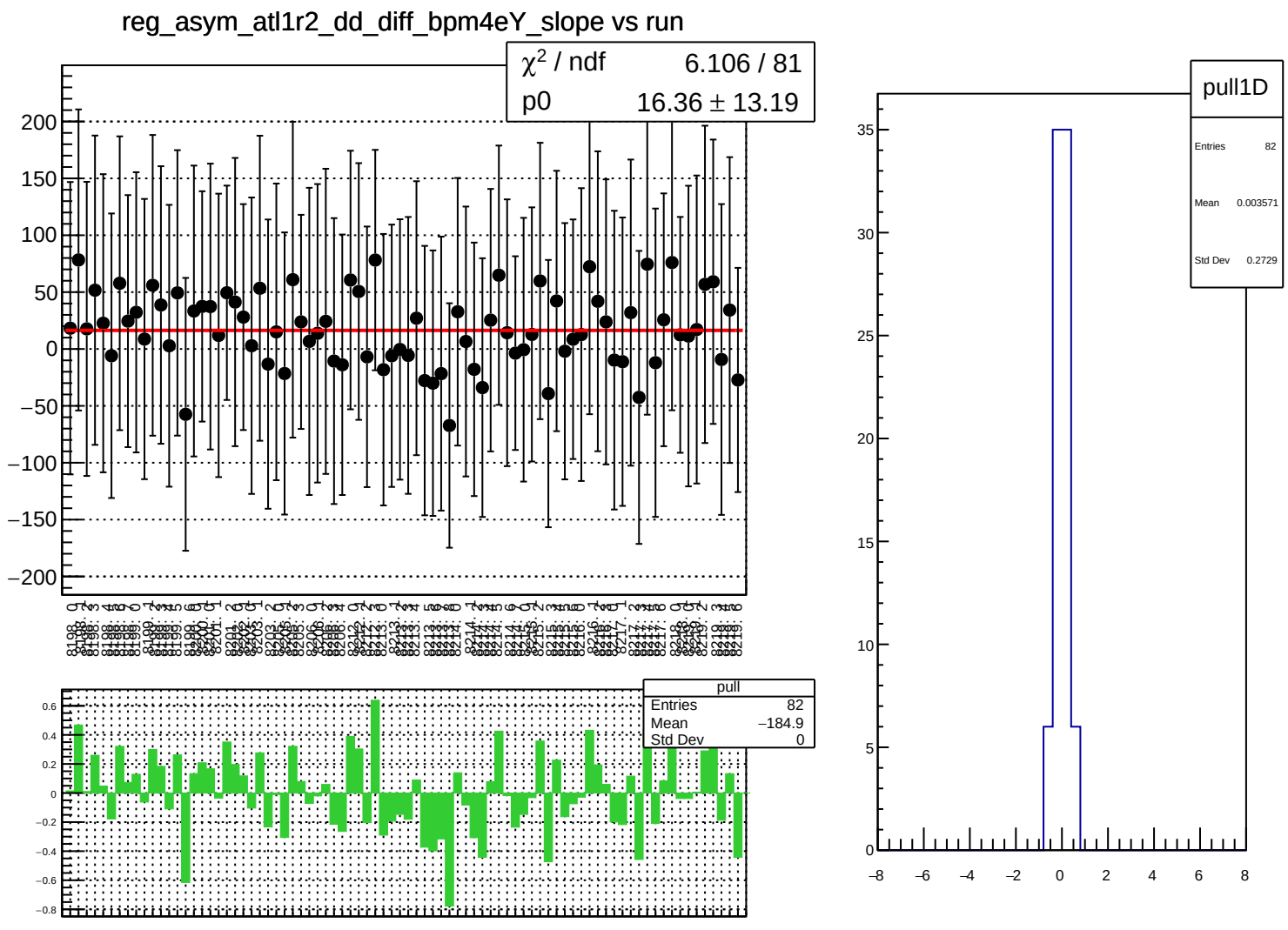

pull1D
Entries 82
Mean 0.005205
Std Dev 0.2521
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

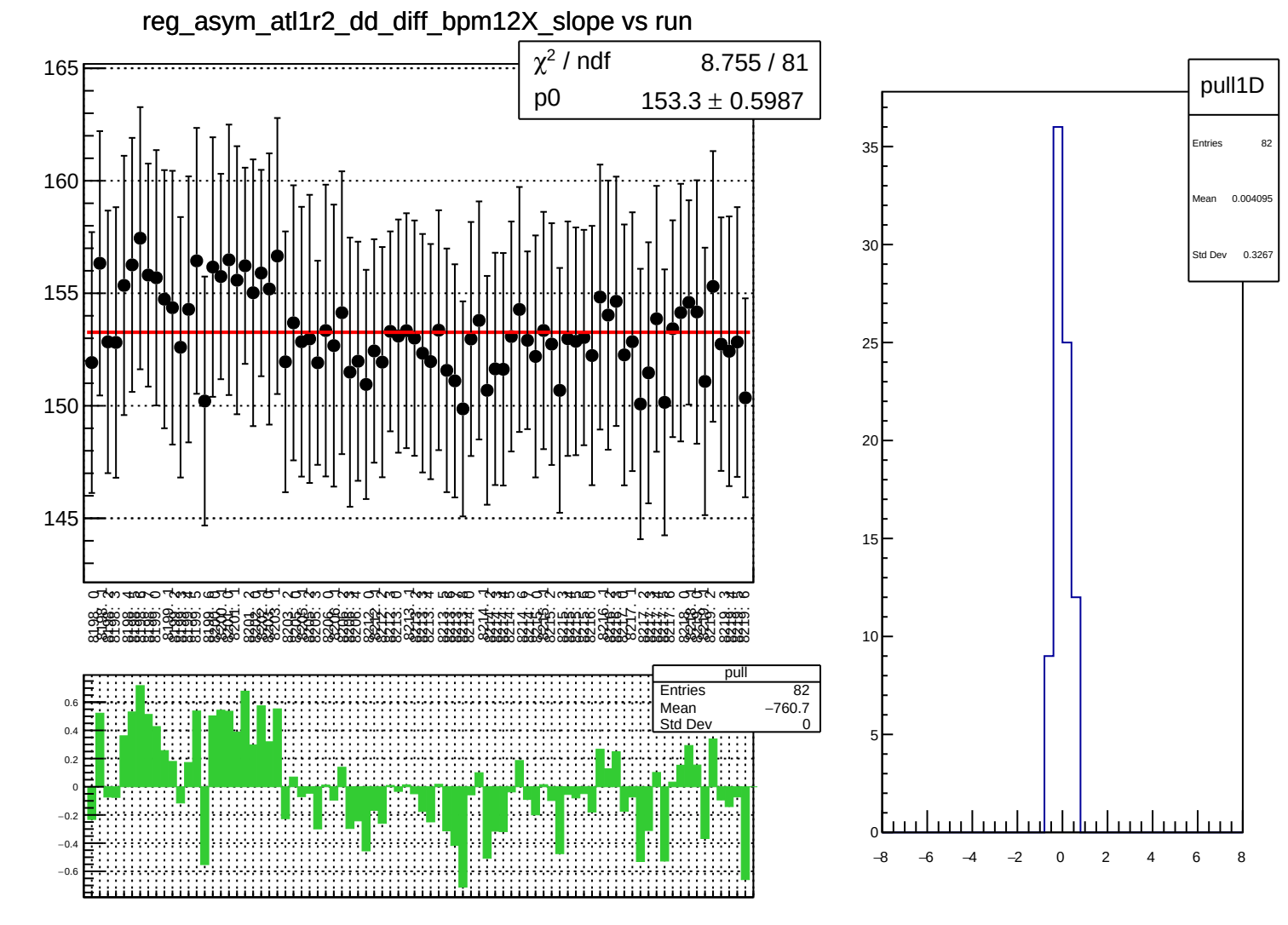

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.038 / 81
p0 −76.95 ± 12.27
pull
Entries 82
Mean −274.5
Std Dev 0

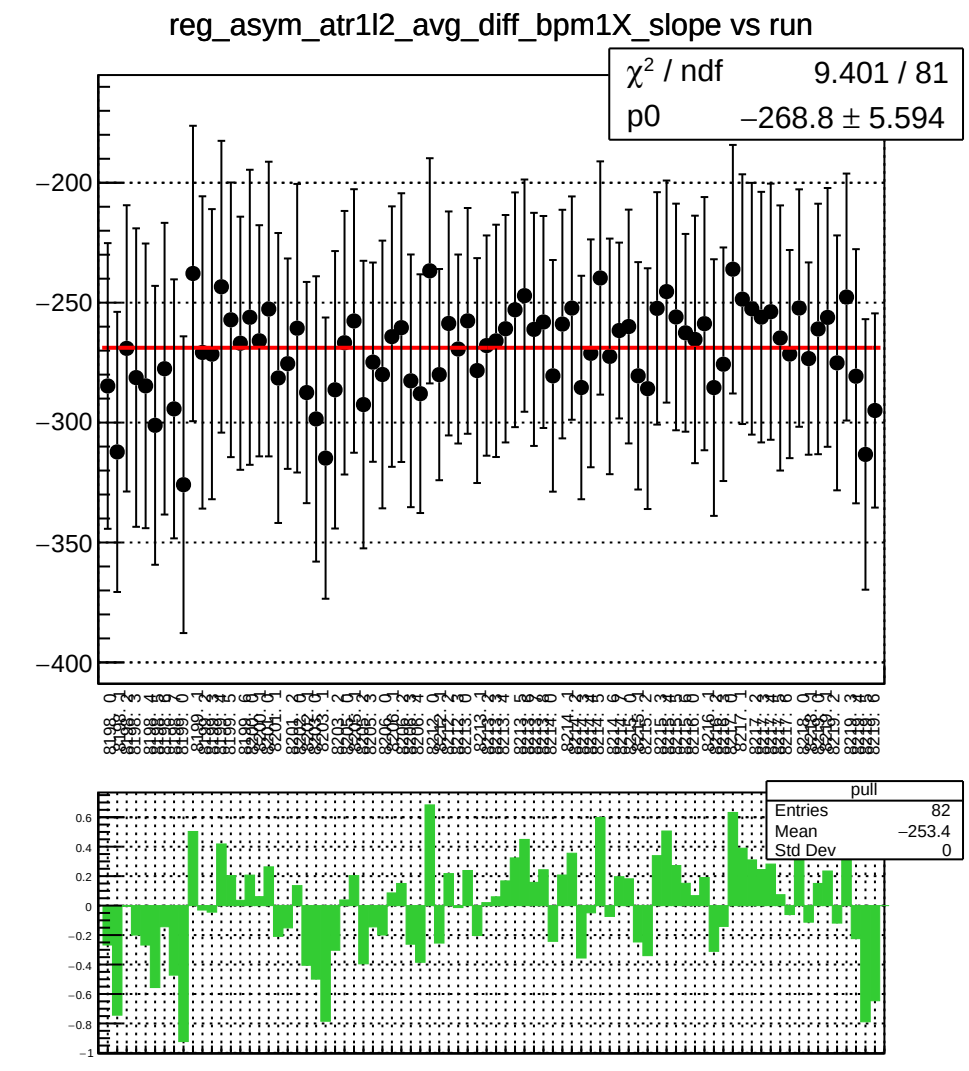

pull1D
Entries 82
Mean −0.002853
Std Dev 0.2713

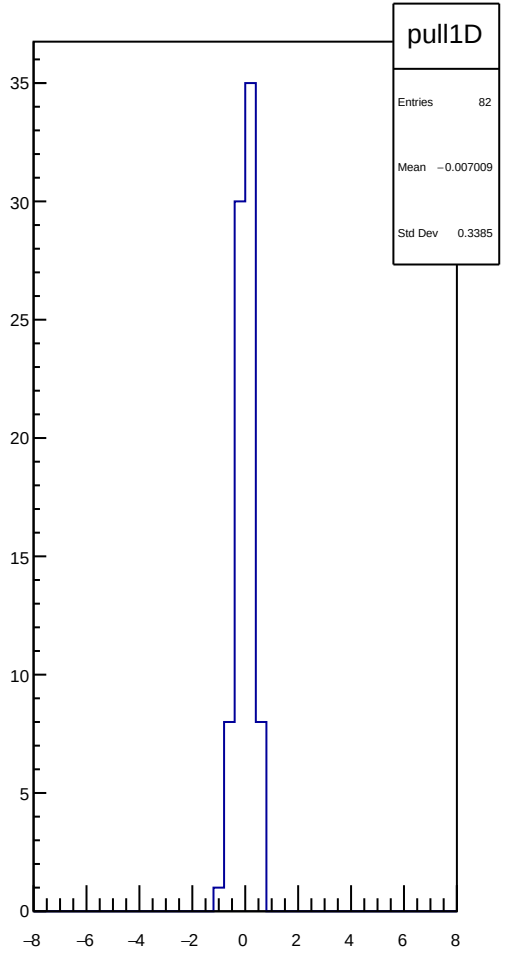

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.197 / 81
p0 −302.8 ± 7.413
−200
−250
−300
−350
−400
pull
Entries 82
Mean 298.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

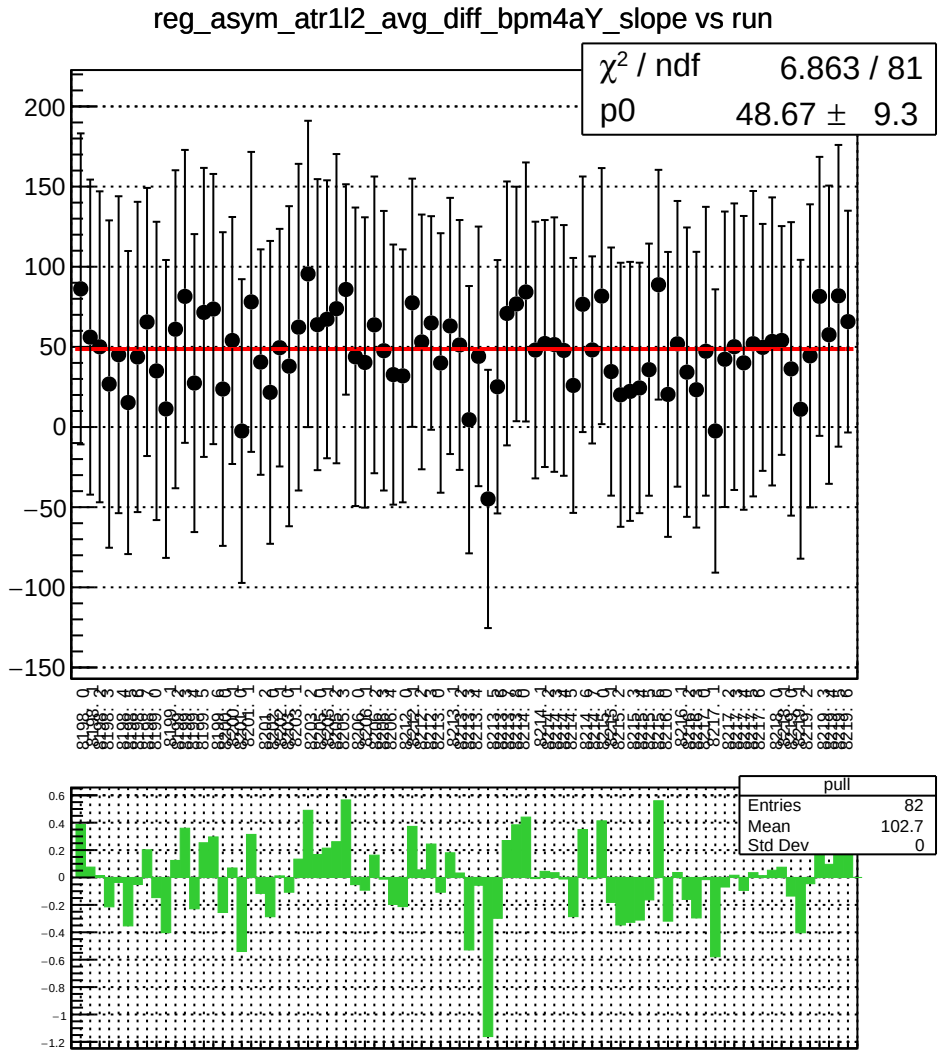

pull1D
Entries 82
Mean −0.00522
Std Dev 0.2517
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

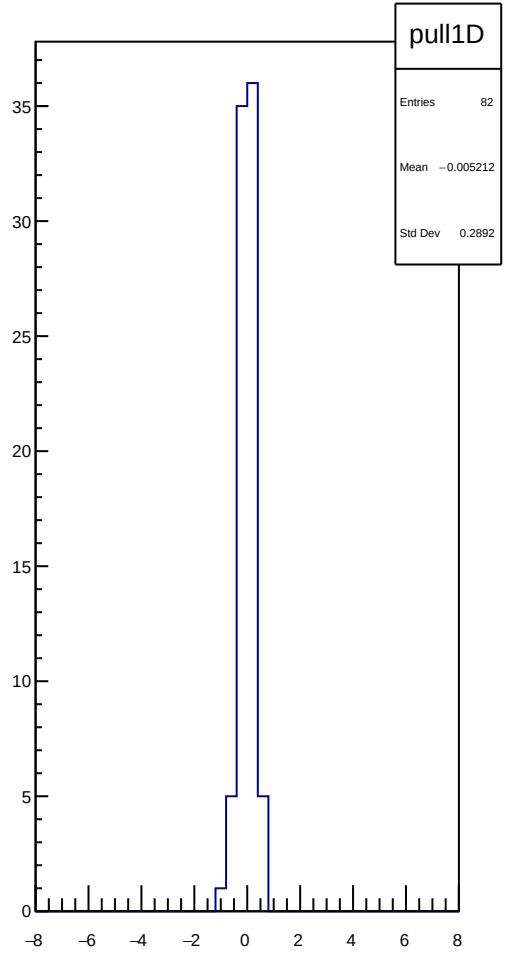

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.106 / 81
p0 16.36 ± 13.19
pull
Entries 82
Mean −184.9
Std Dev 0
pull1D
Entries 82
Mean 0.003571
Std Dev 0.2729

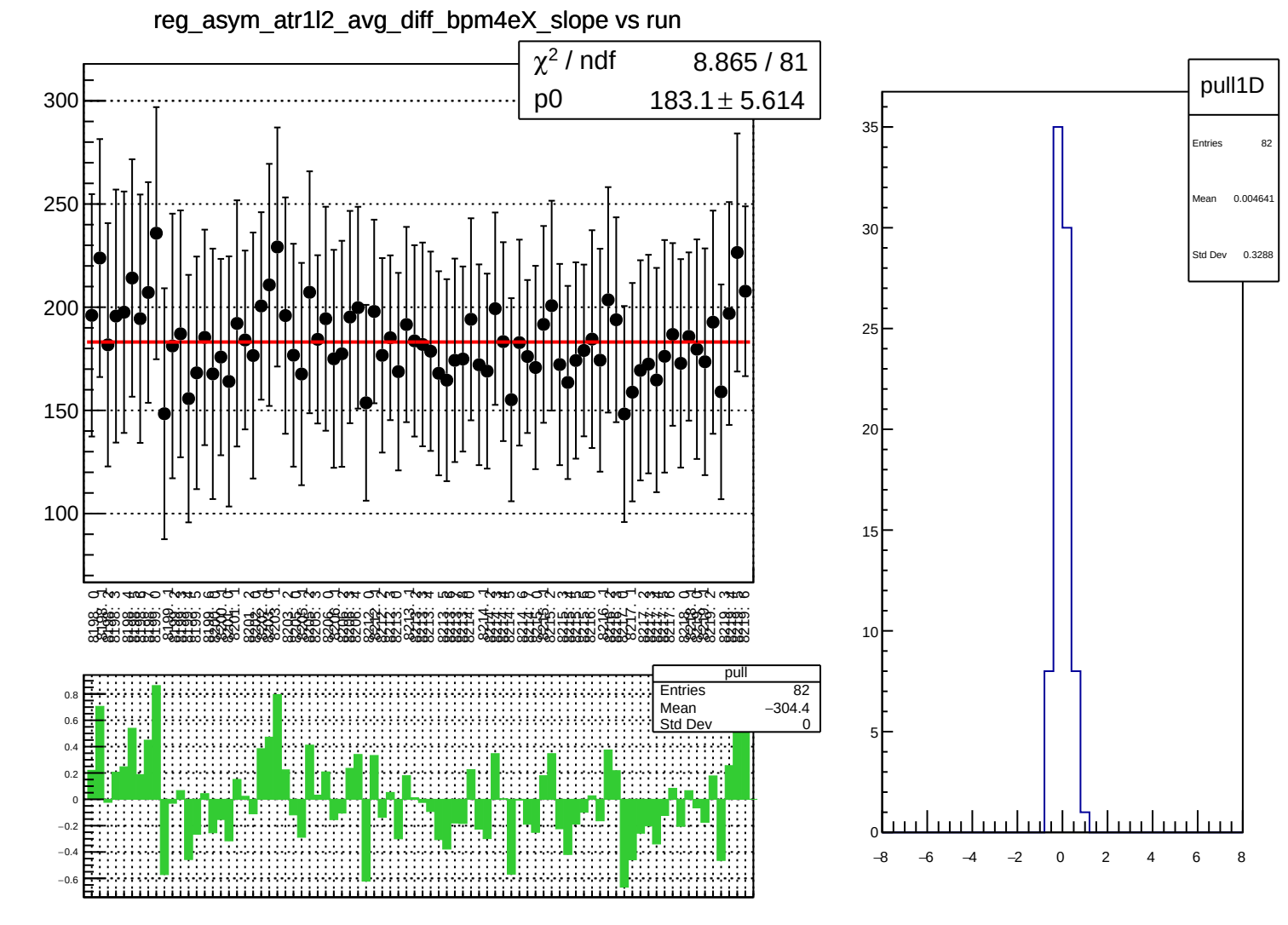

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 8.755 / 81
p0 153.3 ± 0.5987
165
160
155
150
145
pull
Entries 82
Mean −760.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean 0.004095
Std Dev 0.3267
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

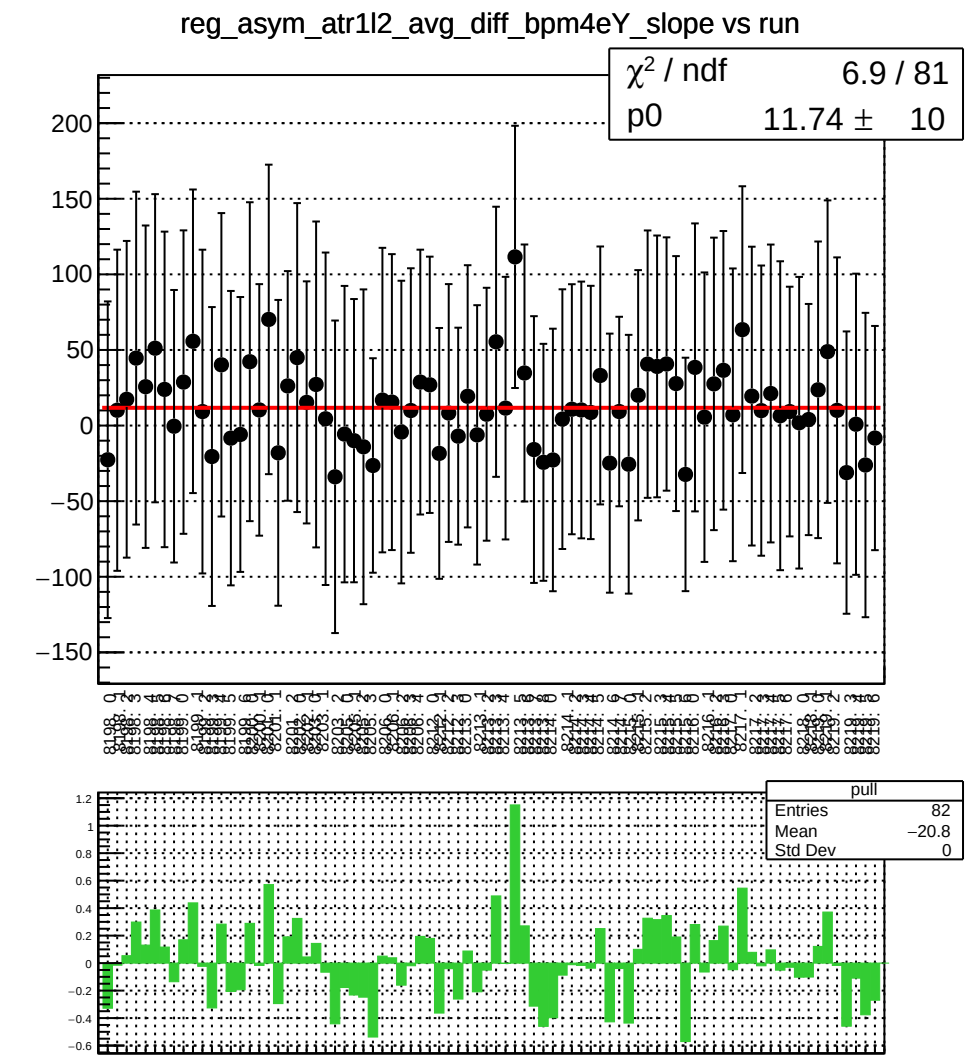

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.401 / 81
p0 −268.8 ± 5.594
pull
Entries 82
Mean −253.4
Std Dev 0

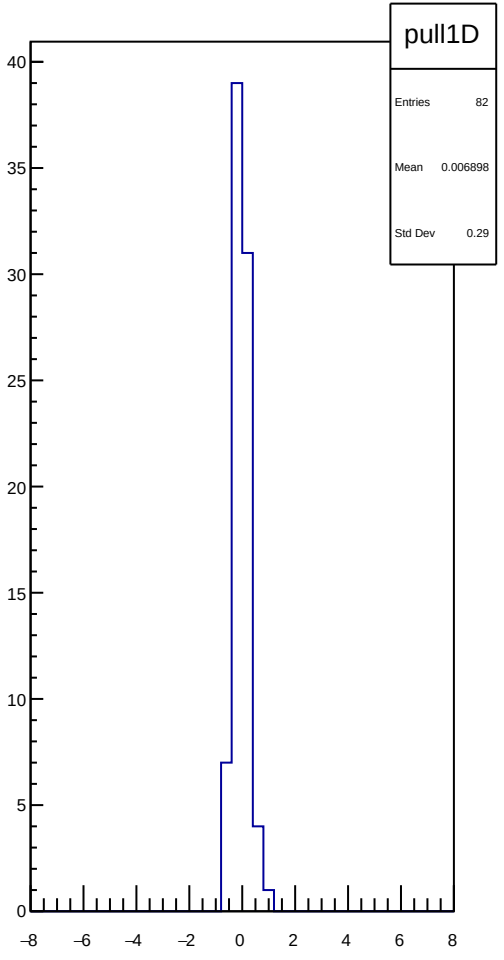

pull1D
Entries 82
Mean −0.007009
Std Dev 0.3385

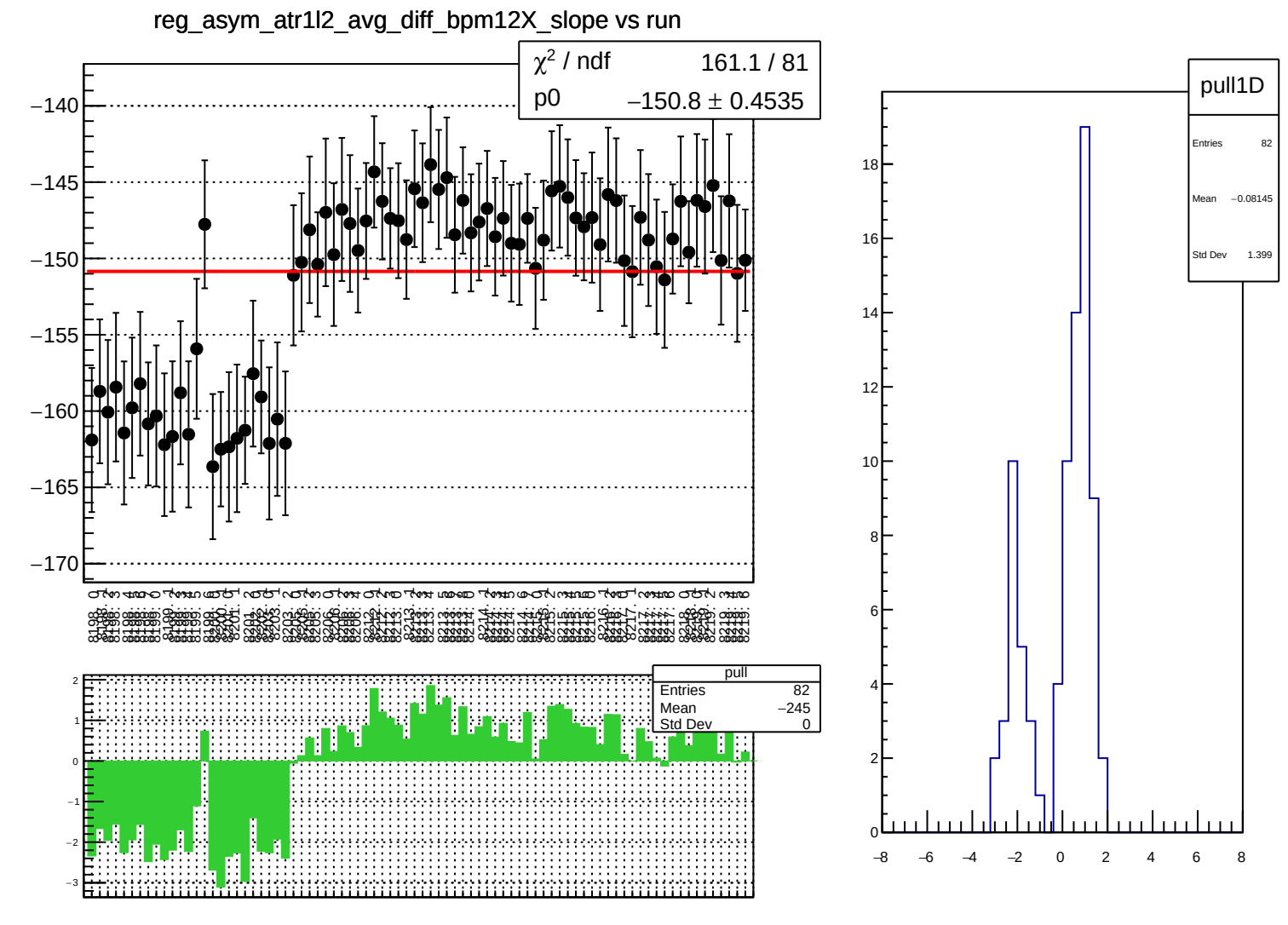

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.863 / 81
p0 48.67 ± 9.3
pull
Entries 82
Mean 102.7
Std Dev 0

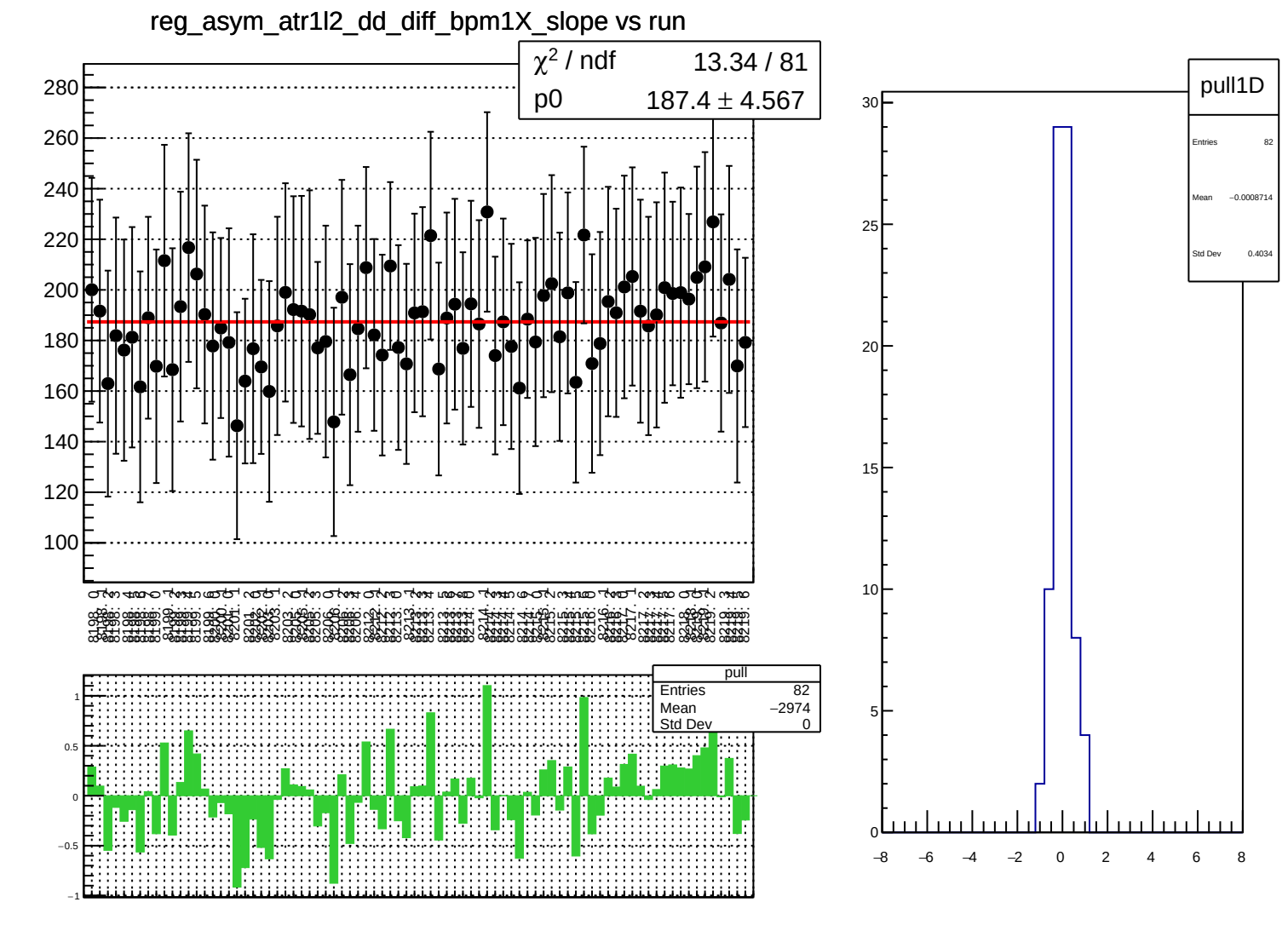

pull1D
Entries 82
Mean −0.005212
Std Dev 0.2892

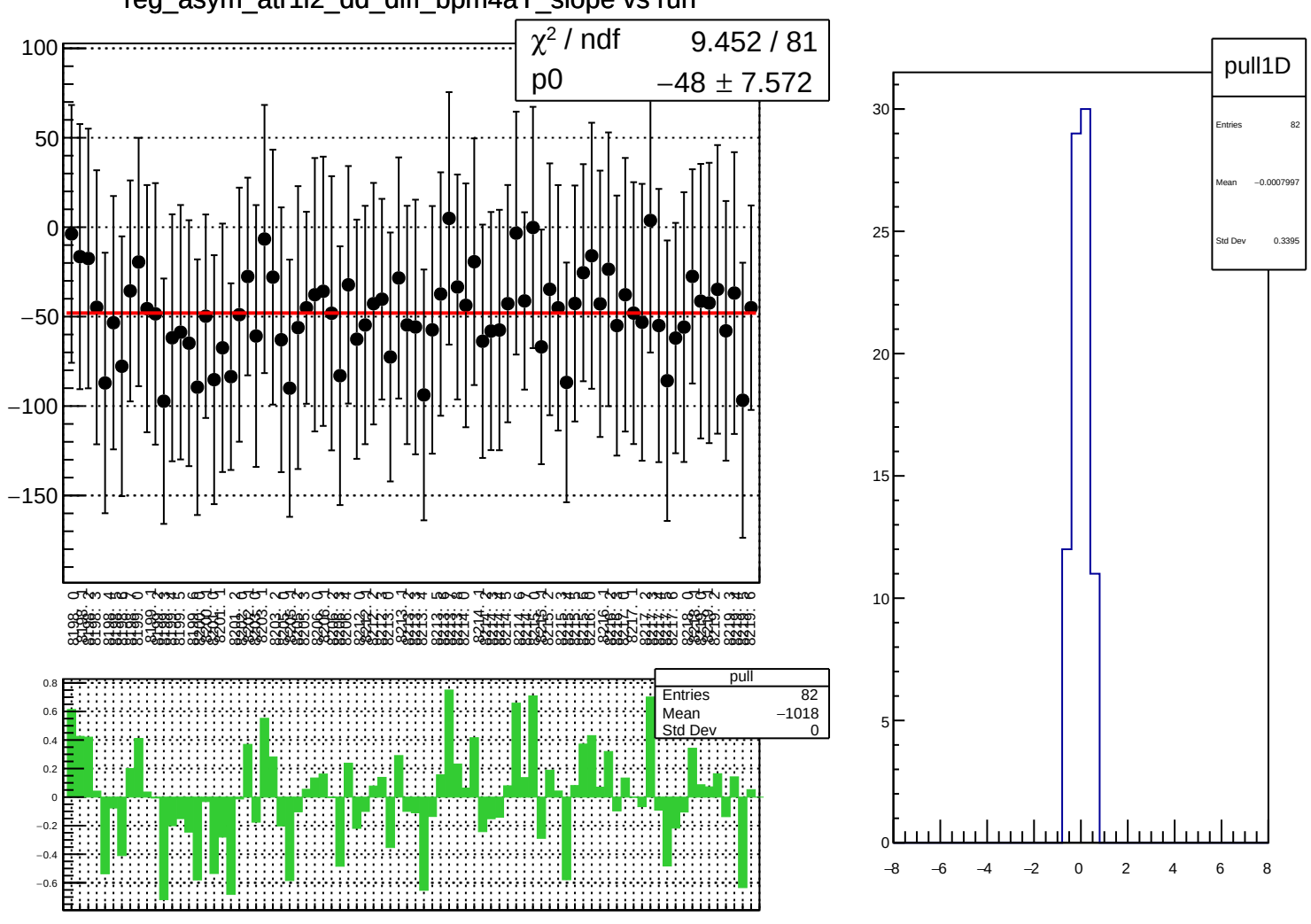

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.865 / 81
p0 183.1 ± 5.614
300
250
200
150
100
pull
Entries 82
Mean −304.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean 0.004641
Std Dev 0.3288
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

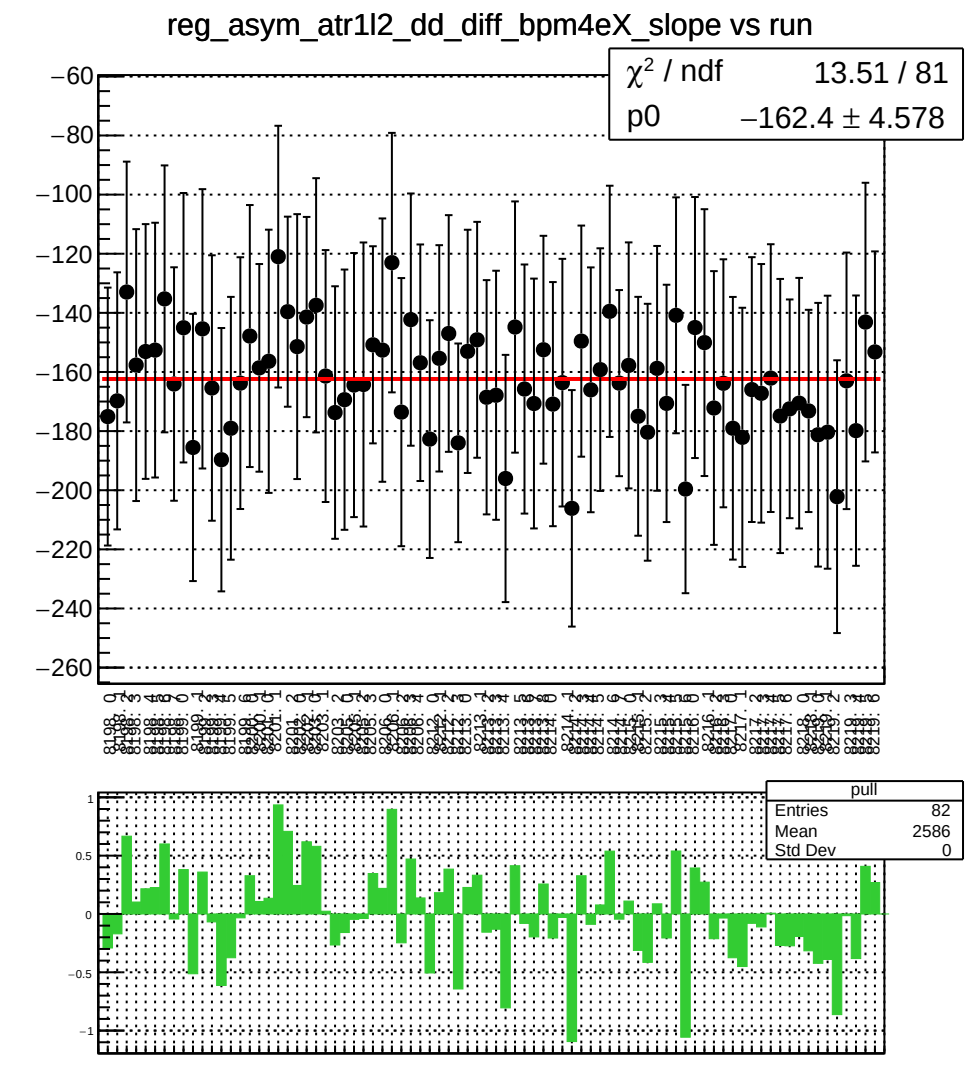

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.9 / 81
p0 11.74 ± 10
pull
Entries 82
Mean −20.8
Std Dev 0

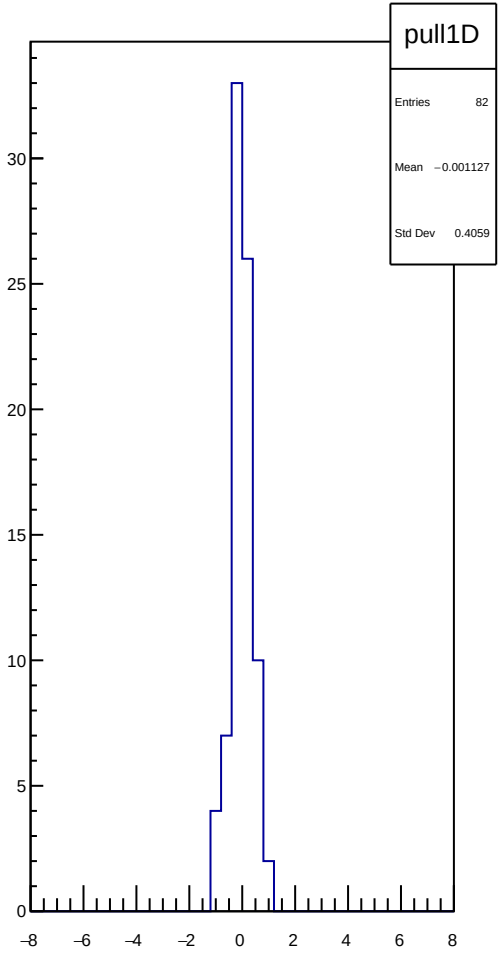

pull1D
Entries 82
Mean 0.006898
Std Dev 0.29

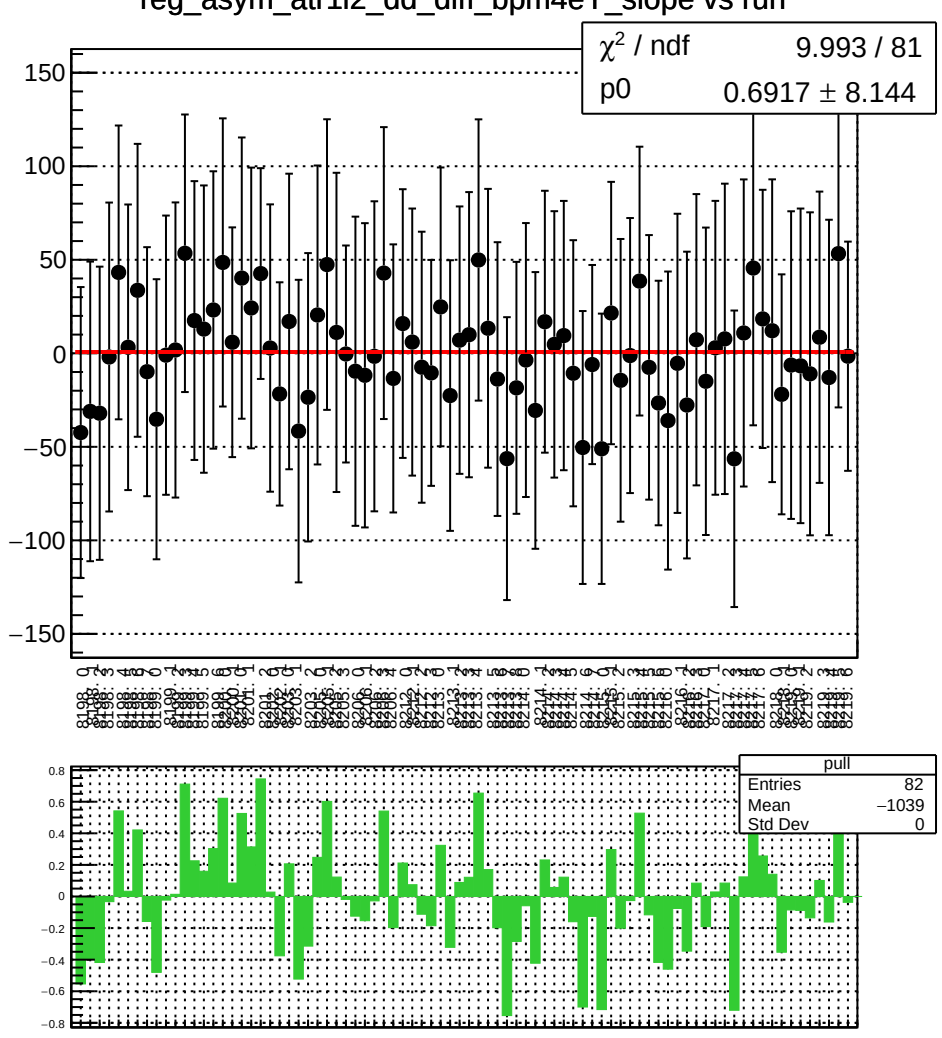

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 161.1 / 81
p0 −150.8 ± 0.4535
−140
−145
−150
−155
−160
−165
−170
pull
Entries 82
Mean −245
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.08145
Std Dev 1.399
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

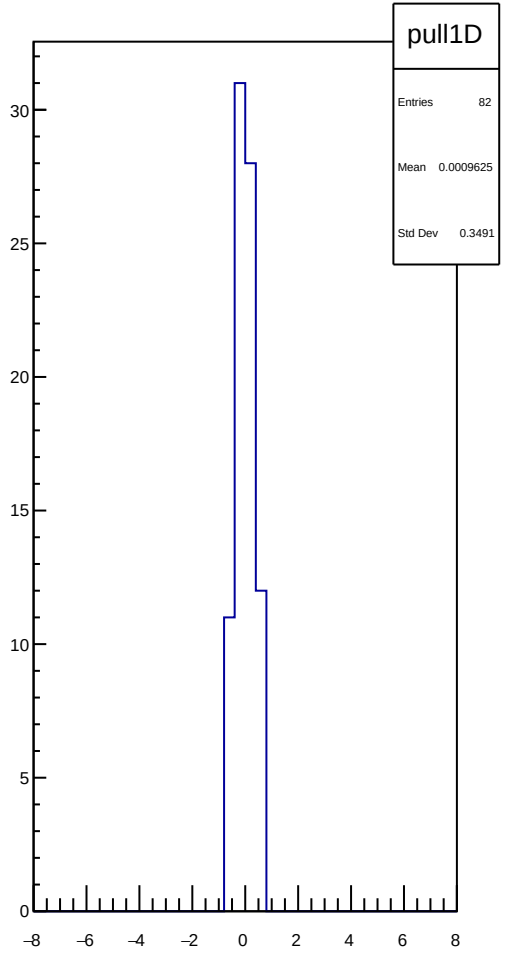

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 13.34 / 81
p0 187.4 ± 4.567
pull
Entries 82
Mean −2974
Std Dev 0
pull1D
Entries 82
Mean −0.0008714
Std Dev 0.4034

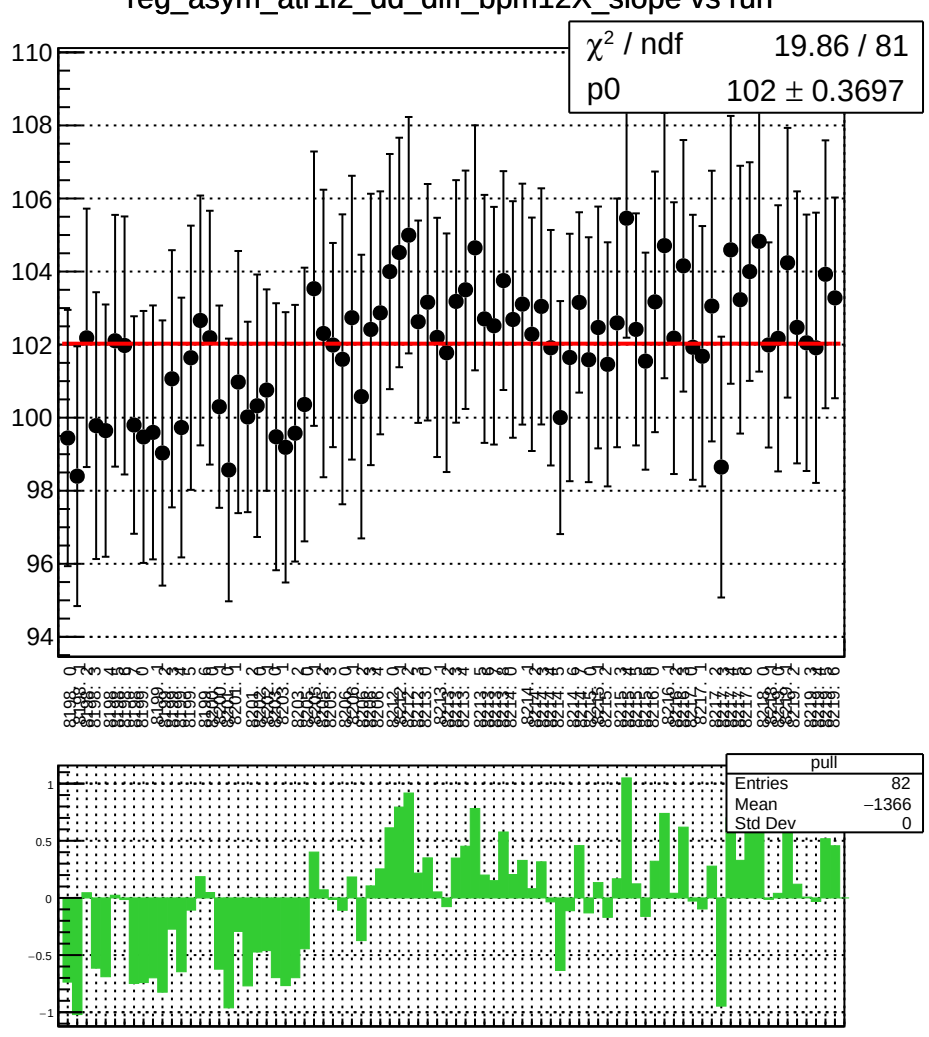

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.452 / 81
p0 −48 ± 7.572
100
50
0
−50
−100
−150
pull
Entries 82
Mean −1018
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean −0.0007997
Std Dev 0.3395
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

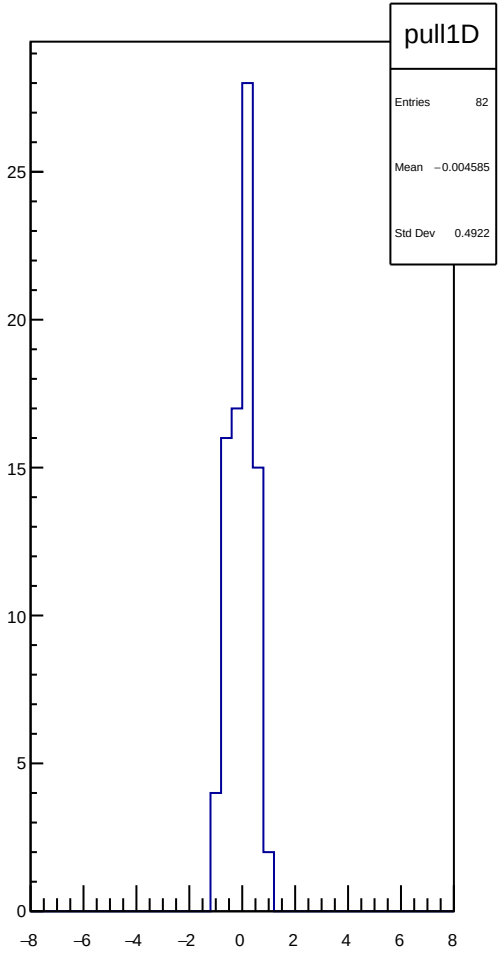

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.51 / 81
p0 −162.4 ± 4.578
pull
Entries 82
Mean 2586
Std Dev 0

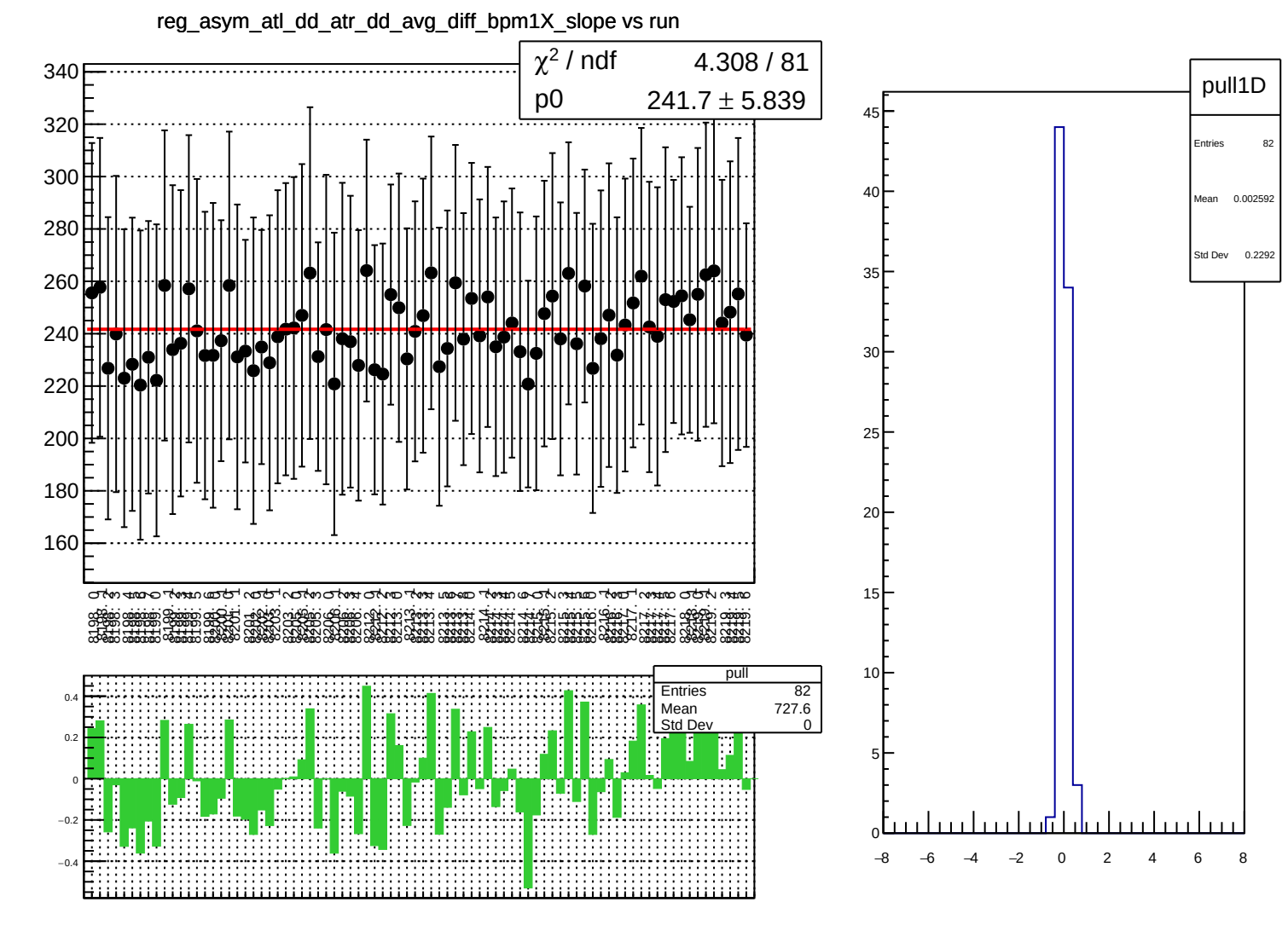

pull1D
Entries 82
Mean −0.001127
Std Dev 0.4059

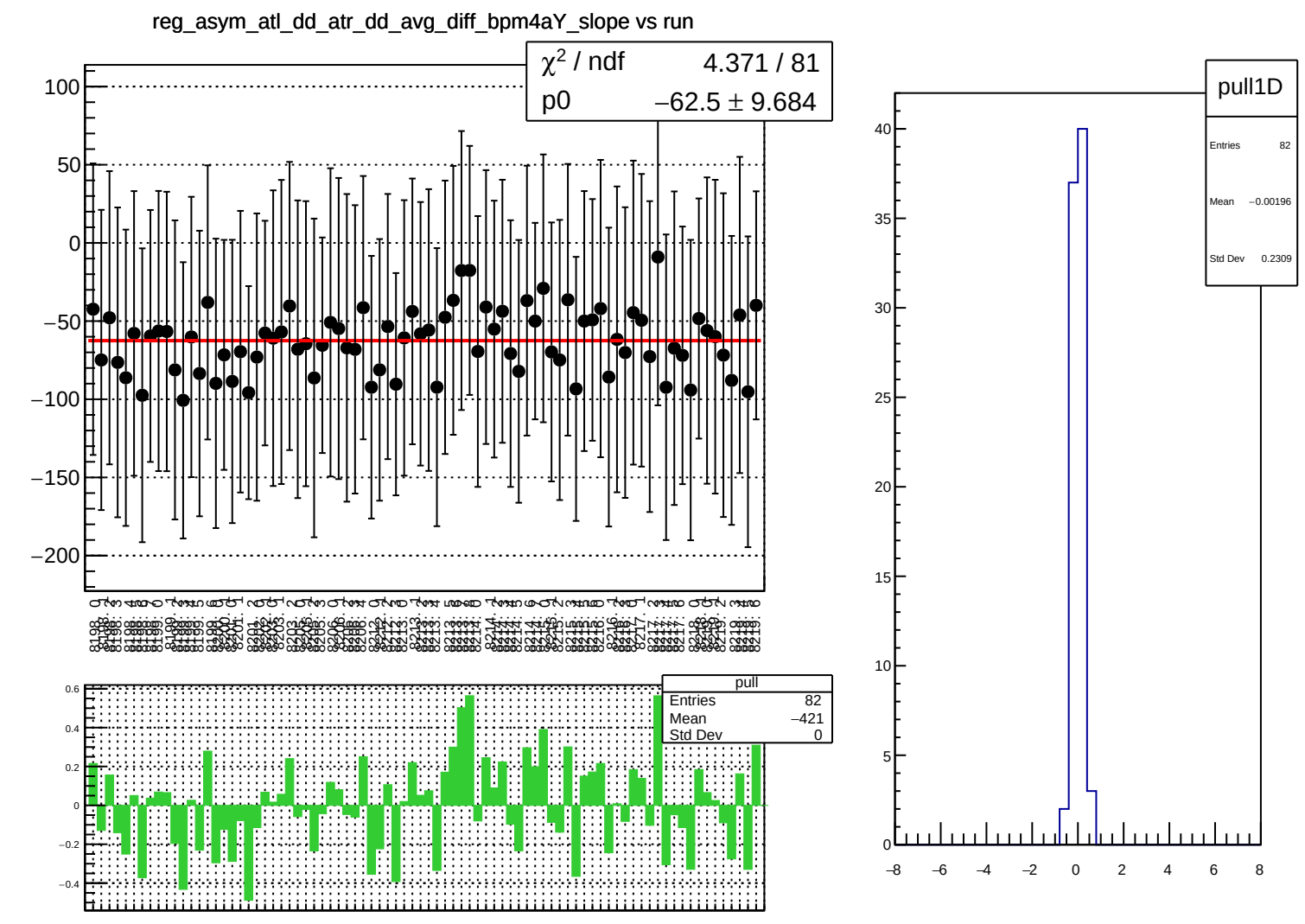

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.993 / 81
p0 0.6917 ± 8.144
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −1039
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

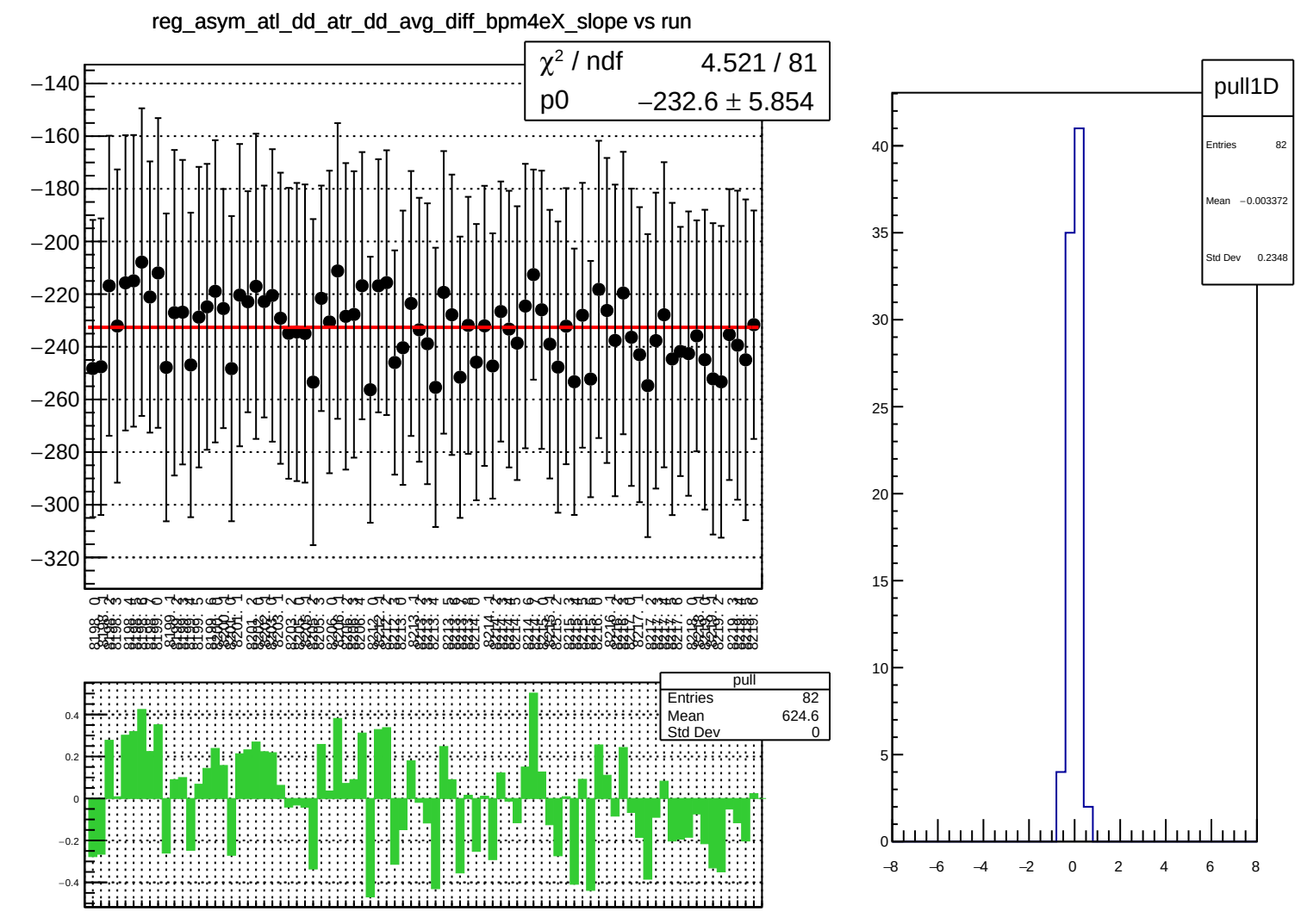

pull1D
Entries 82
Mean 0.0009625
Std Dev 0.3491
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

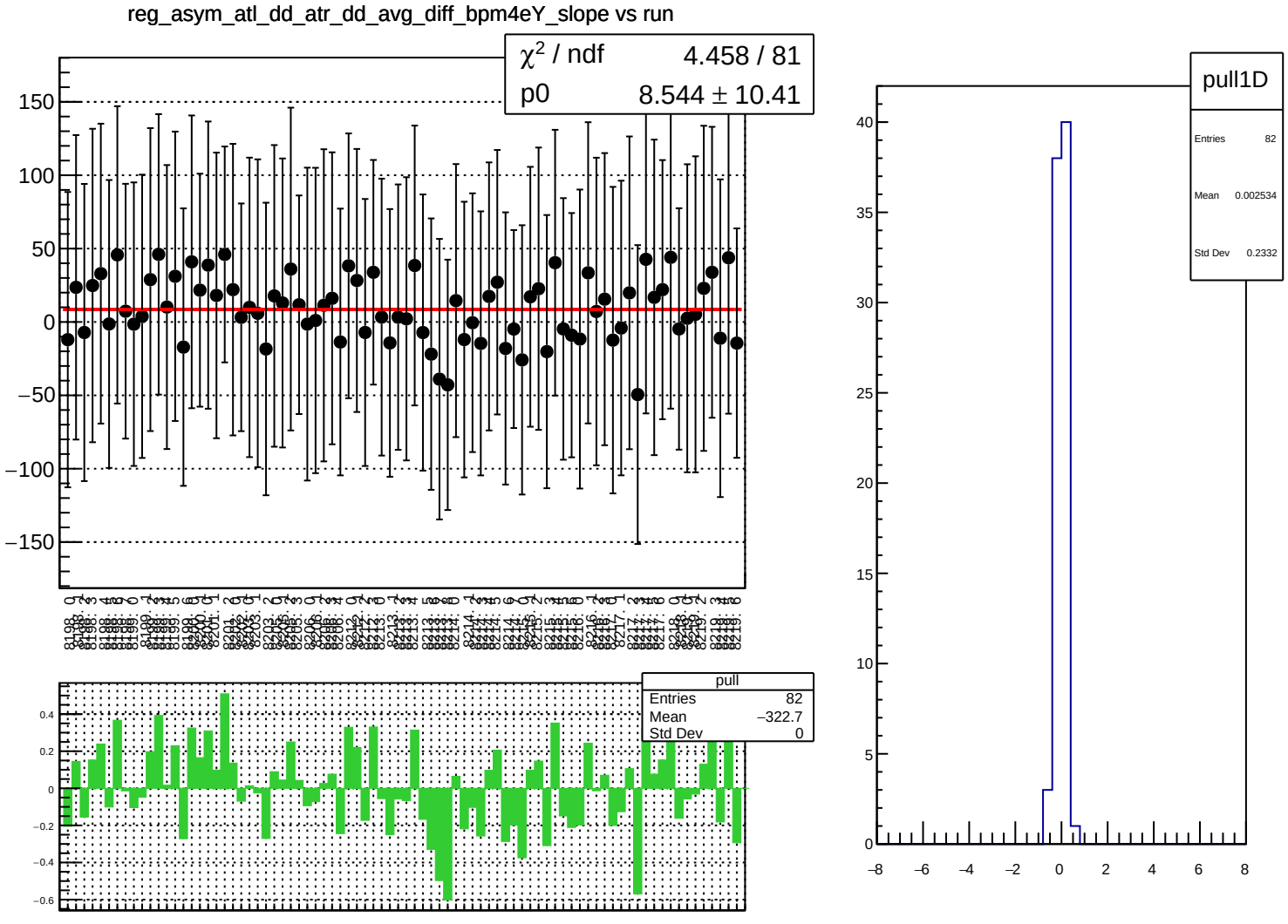

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 19.86 / 81
p0 102 ± 0.3697
pull
Entries 82
Mean −1366
Std Dev 0

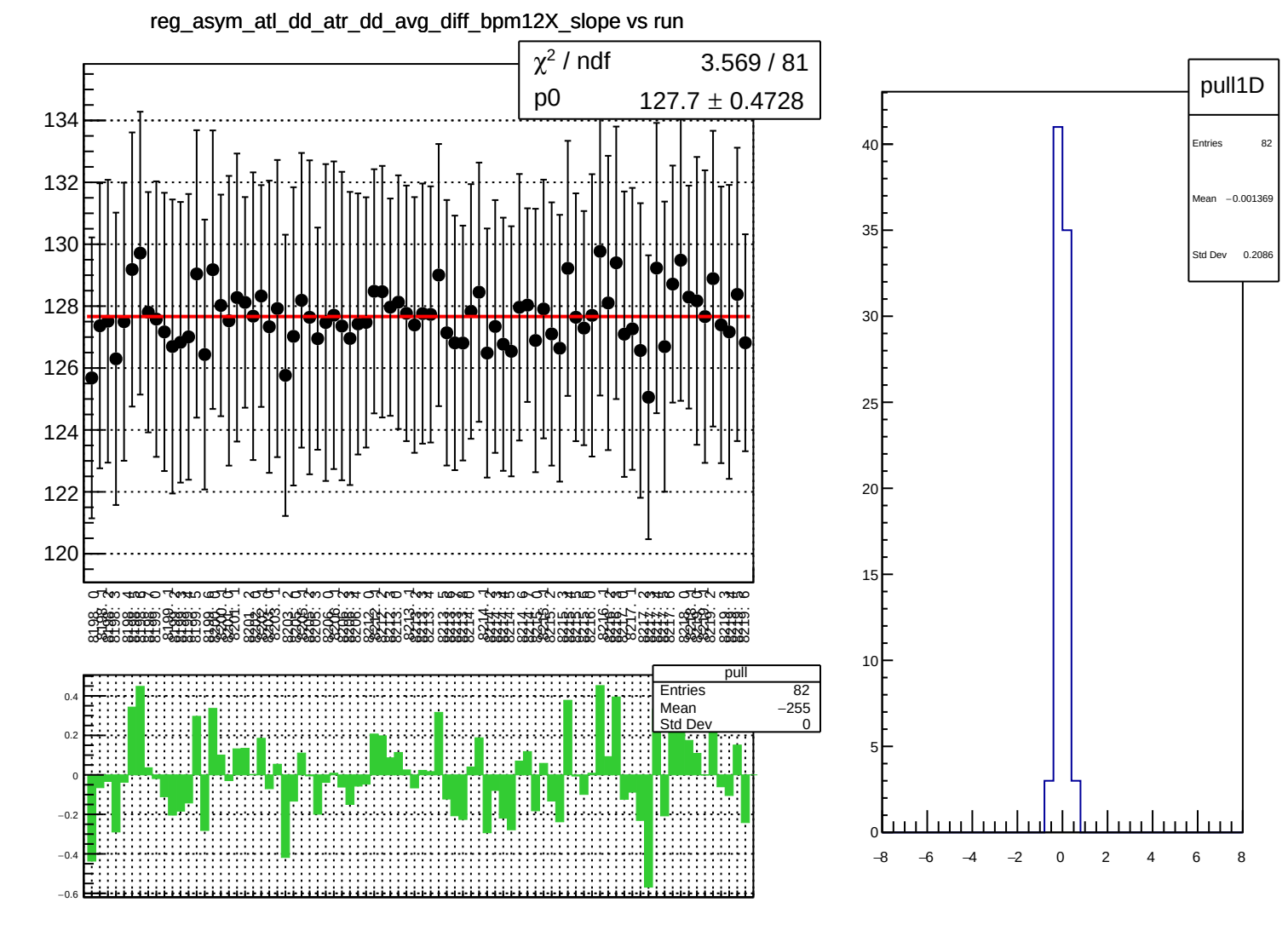

pull1D
Entries 82
Mean −0.004585
Std Dev 0.4922

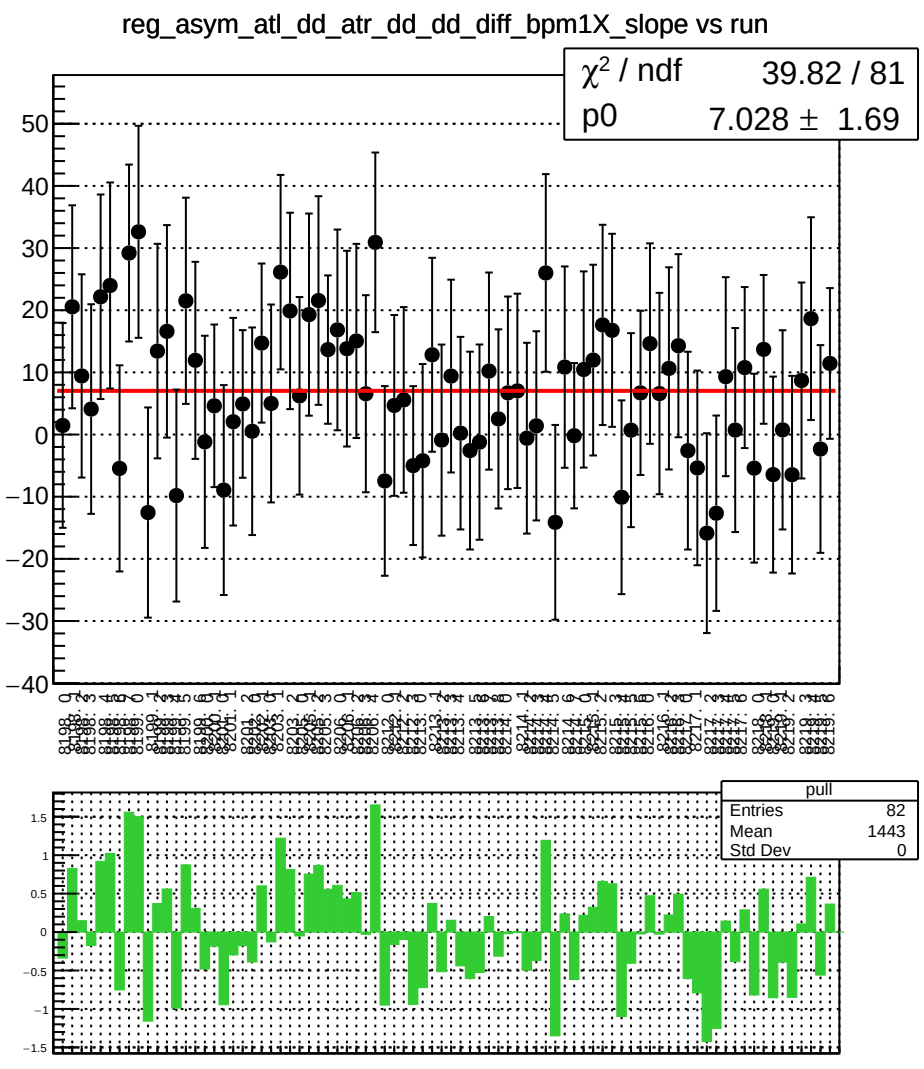

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 4.308 / 81
p0 241.7 ± 5.839
pull
Entries 82
Mean 727.6
Std Dev 0
pull1D
Entries 82
Mean 0.002592
Std Dev 0.2292

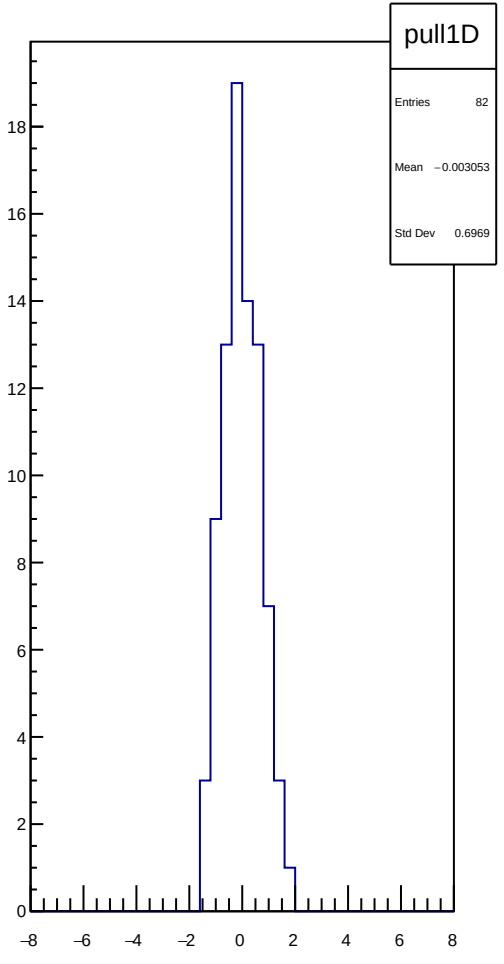

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.371 / 81
p0 −62.5 ± 9.684
pull
Entries 82
Mean −421
Std Dev 0
pull1D
Entries 82
Mean −0.00196
Std Dev 0.2309

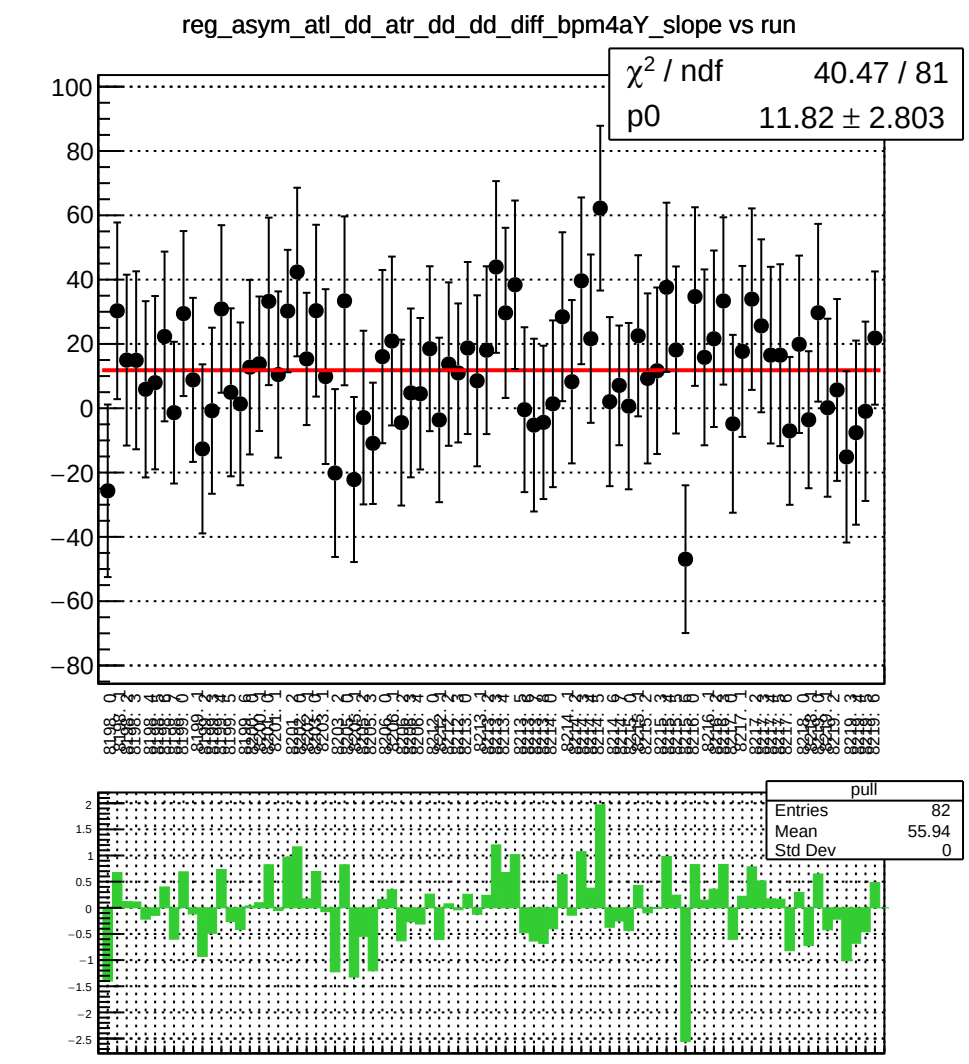

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.521 / 81
p0 −232.6 ± 5.854
pull
Entries 82
Mean 624.6
Std Dev 0
pull1D
Entries 82
Mean −0.003372
Std Dev 0.2348

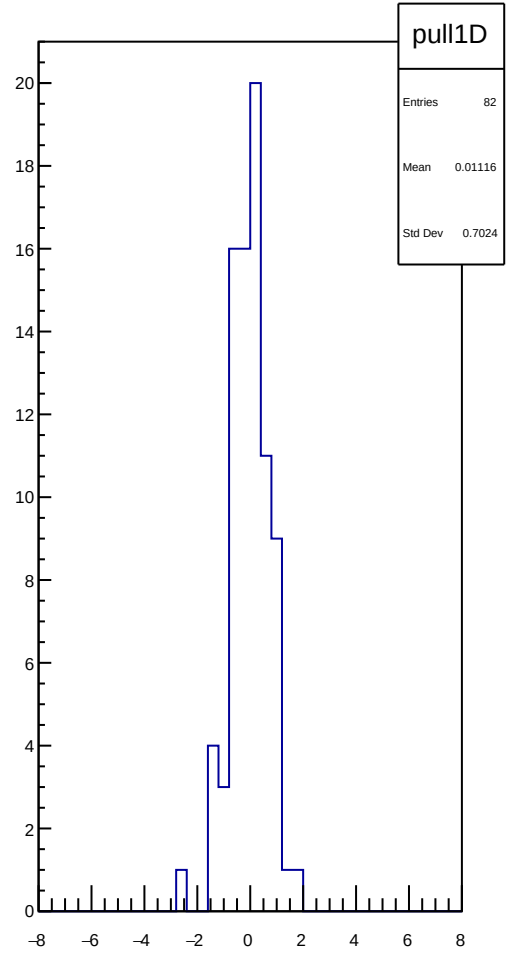

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.458 / 81
p0 8.544 ± 10.41
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −322.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean 0.002534
Std Dev 0.2332
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

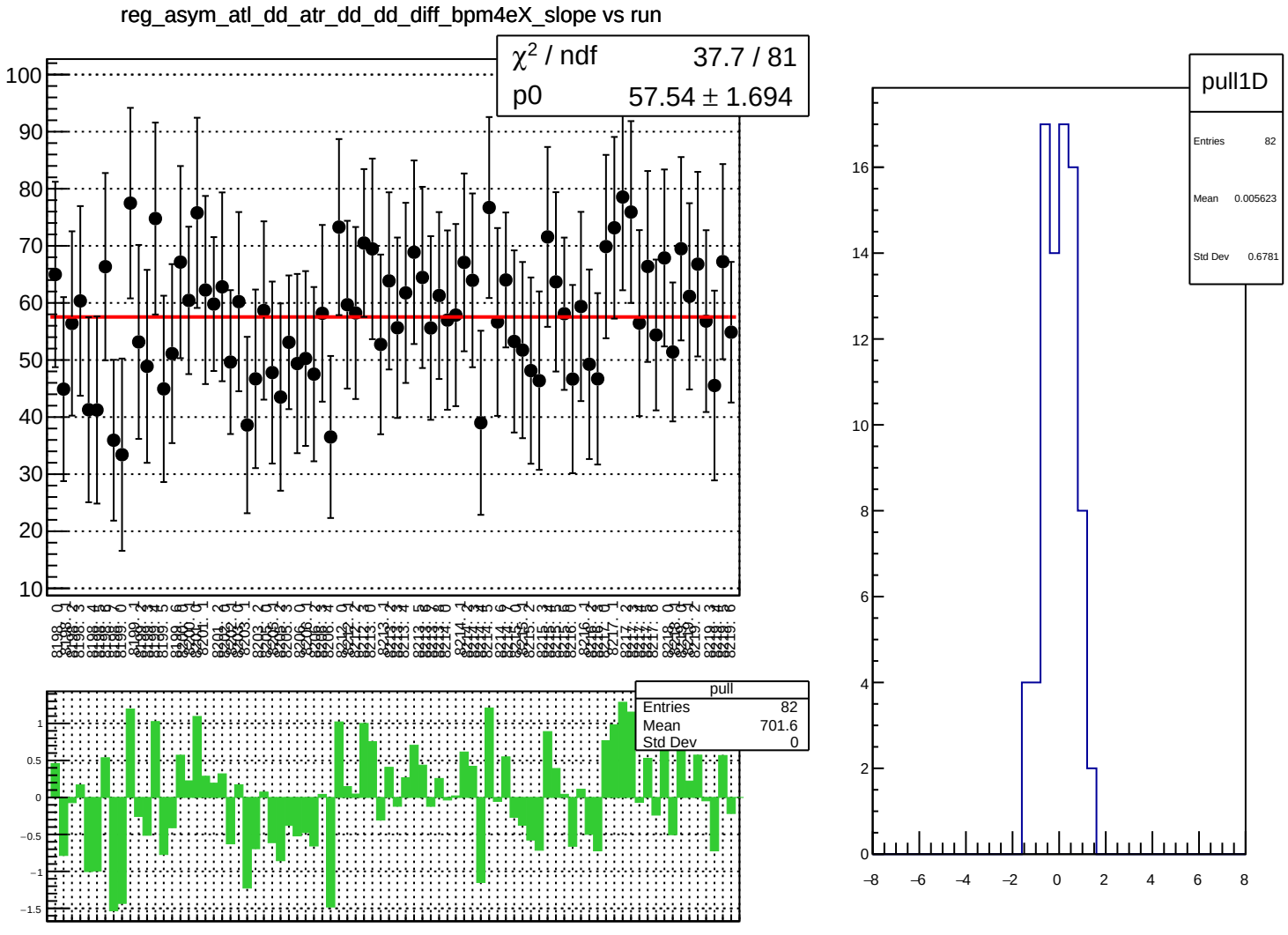

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 3.569 / 81
p0 127.7 ± 0.4728
pull
Entries 82
Mean −255
Std Dev 0
pull1D
Entries 82
Mean −0.001369
Std Dev 0.2086

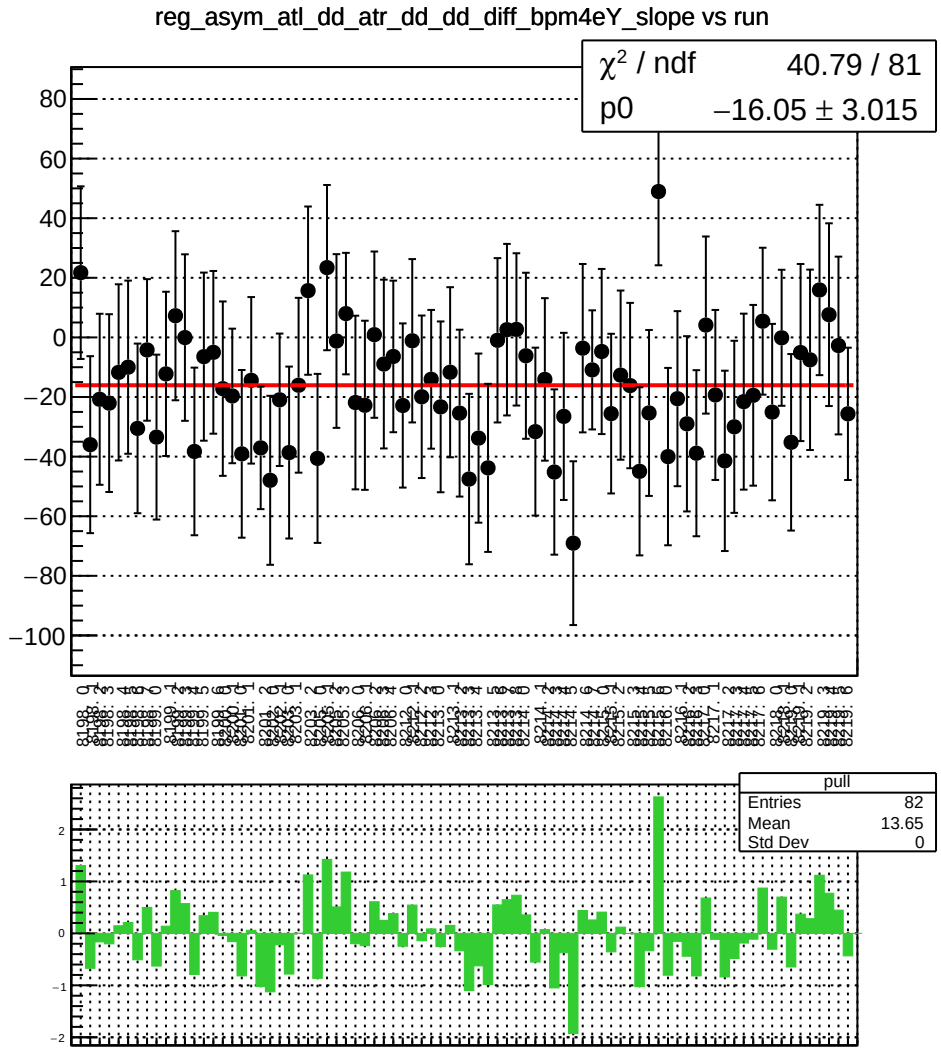

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 39.82 / 81
p0 7.028 ± 1.69
pull
Entries 82
Mean 1443
Std Dev 0

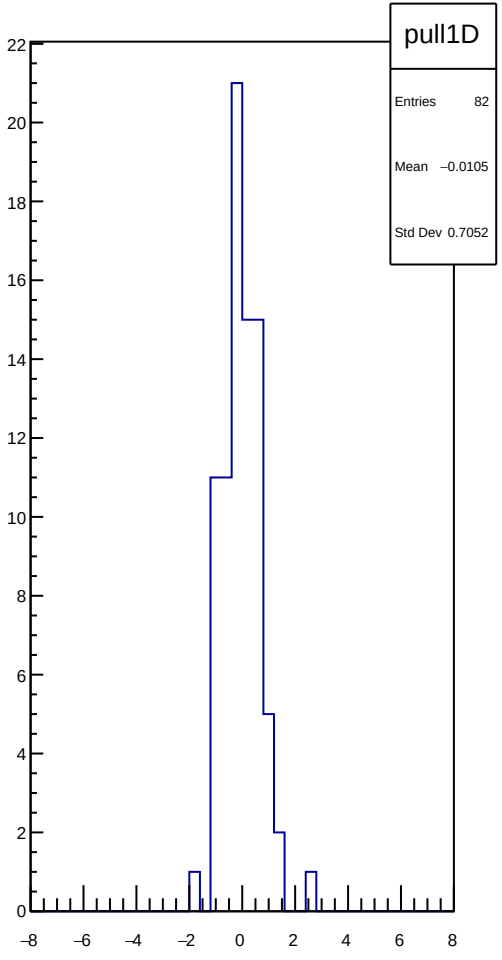

pull1D
Entries 82
Mean −0.003053
Std Dev 0.6969

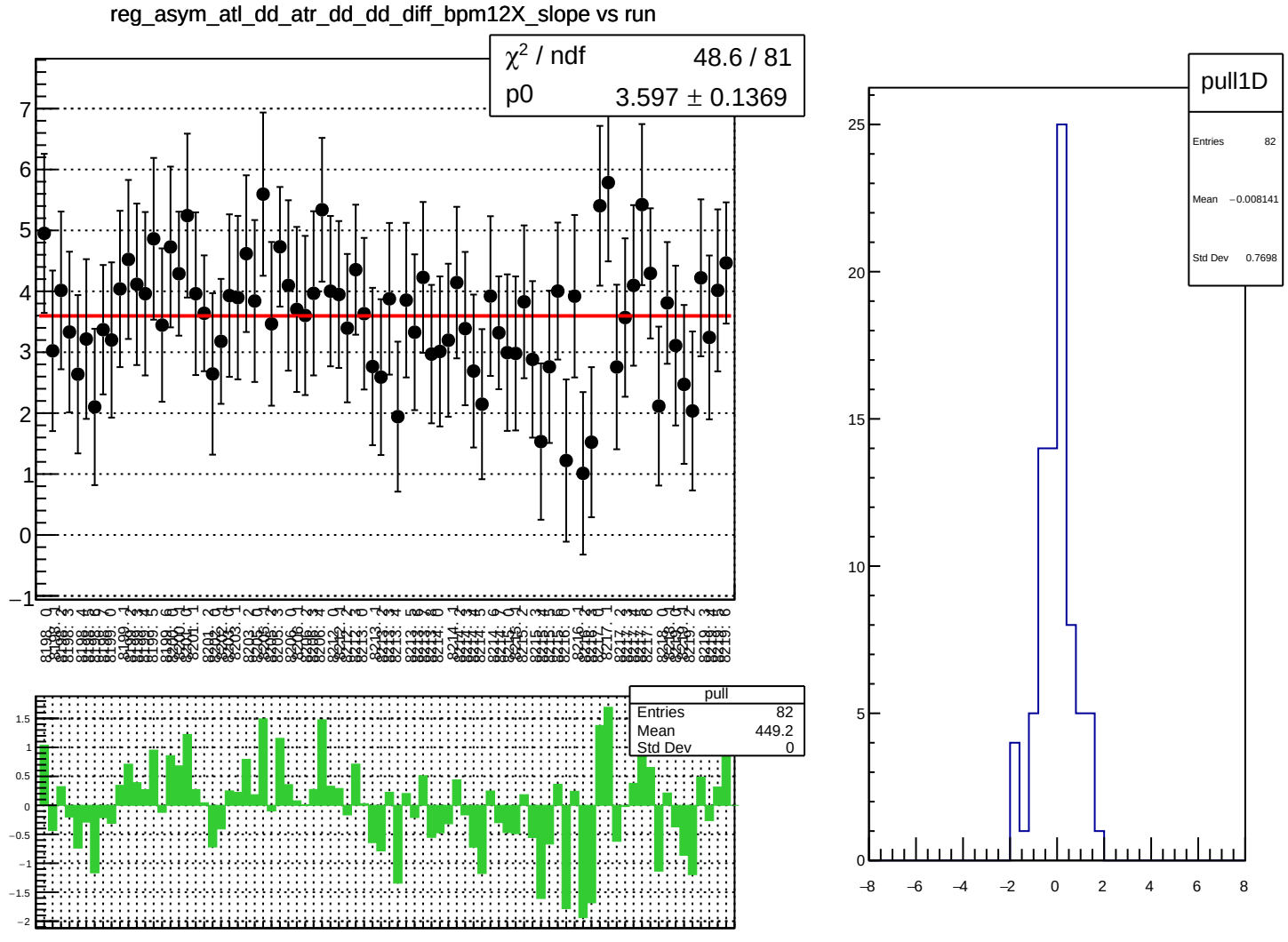

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.47 / 81
p0 11.82 ± 2.803
pull
Entries 82
Mean 55.94
Std Dev 0

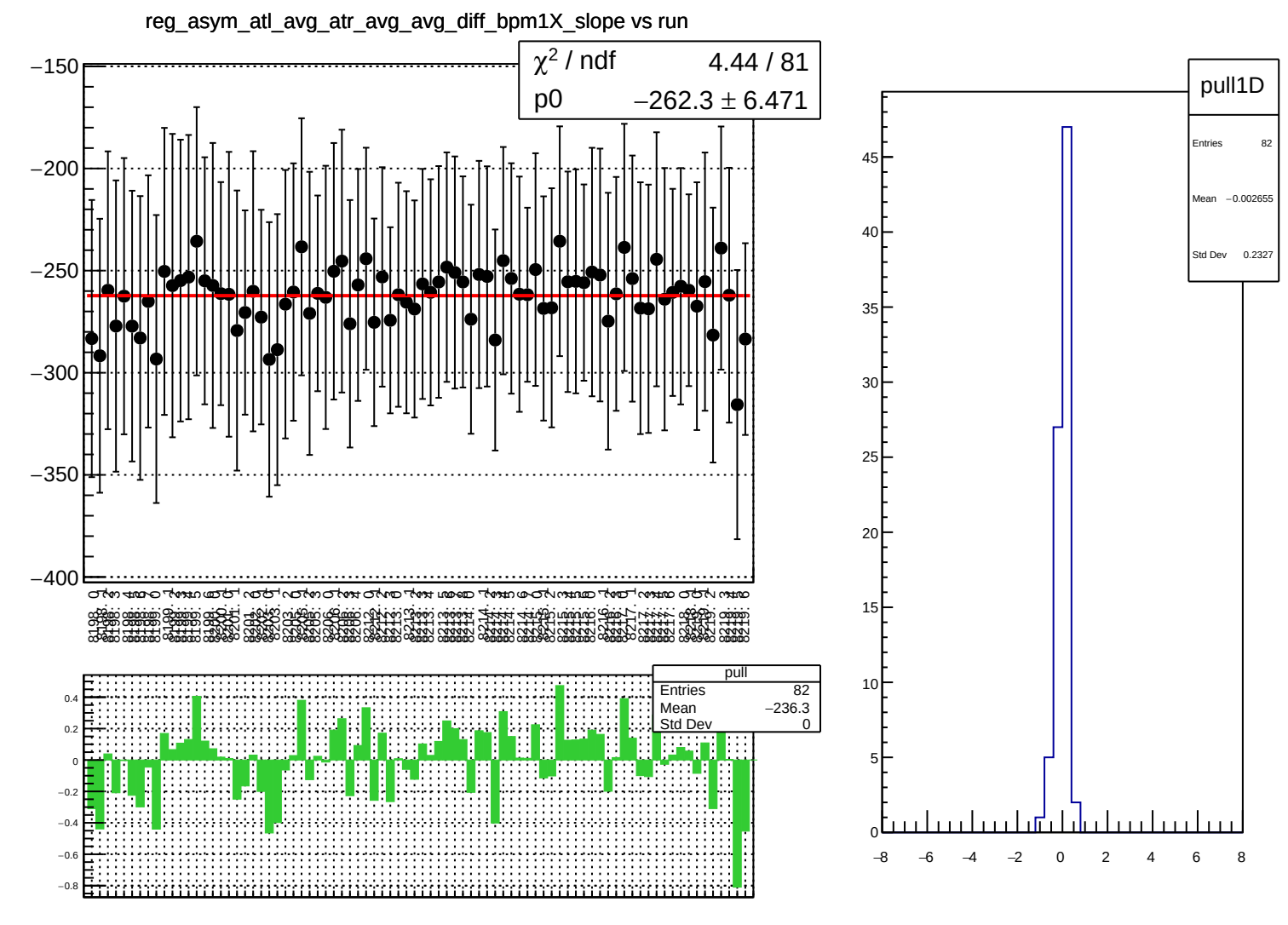

pull1D
Entries 82
Mean 0.01116
Std Dev 0.7024

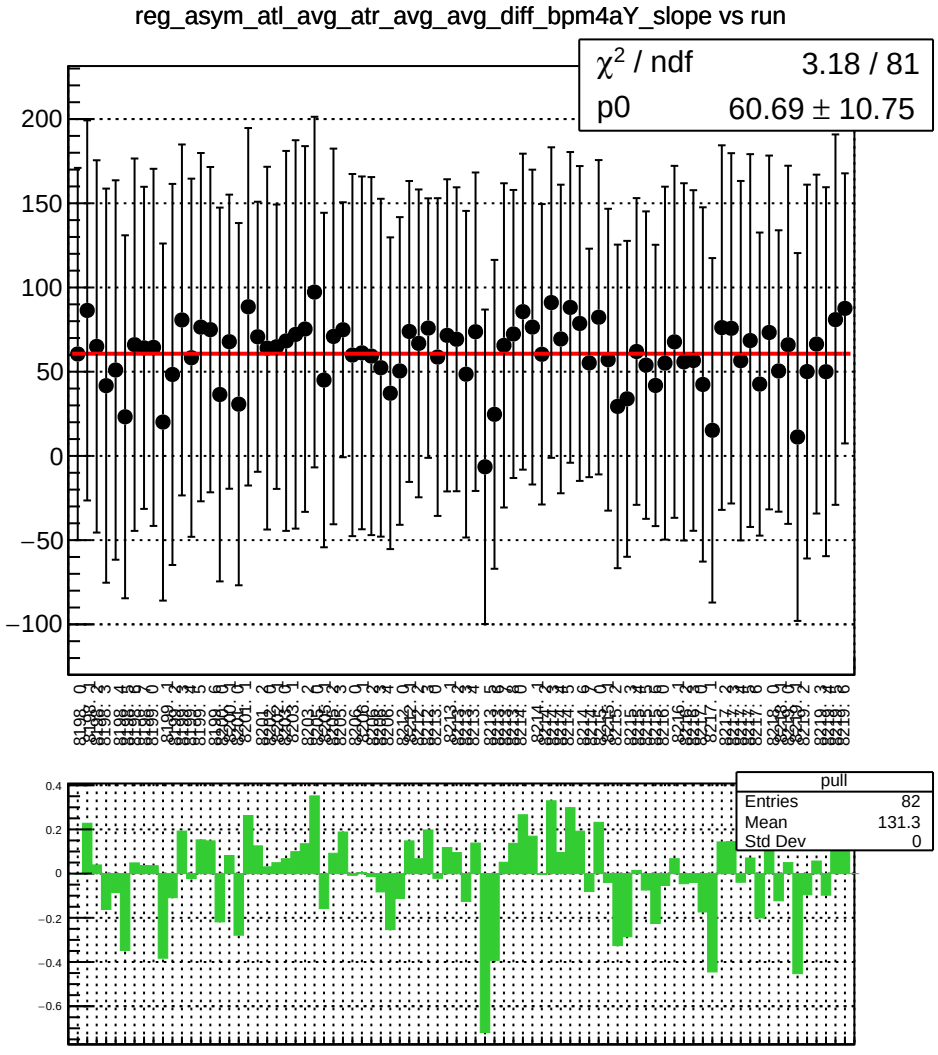

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.7 / 81
p0 57.54 ± 1.694
pull
Entries 82
Mean 701.6
Std Dev 0
pull1D
Entries 82
Mean 0.005623
Std Dev 0.6781

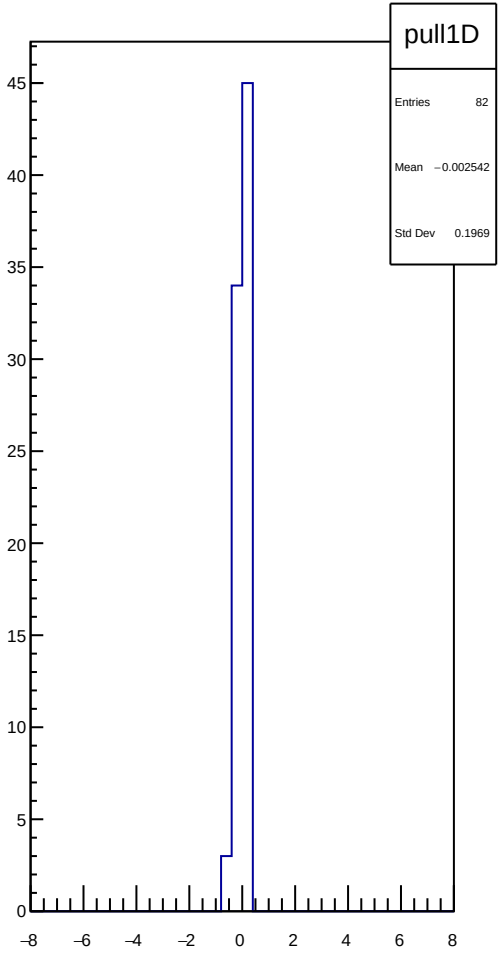

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.79 / 81
p0 −16.05 ± 3.015
pull
Entries 82
Mean 13.65
Std Dev 0

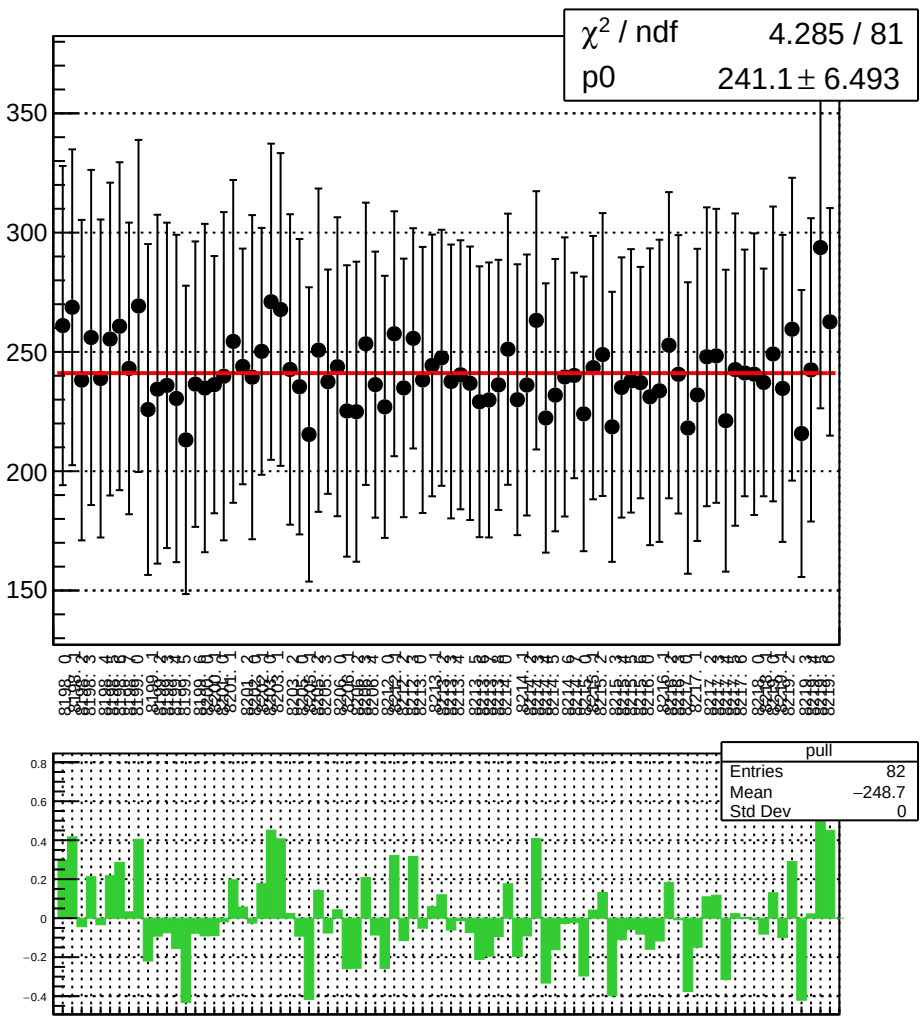

pull1D
Entries 82
Mean −0.0105
Std Dev 0.7052

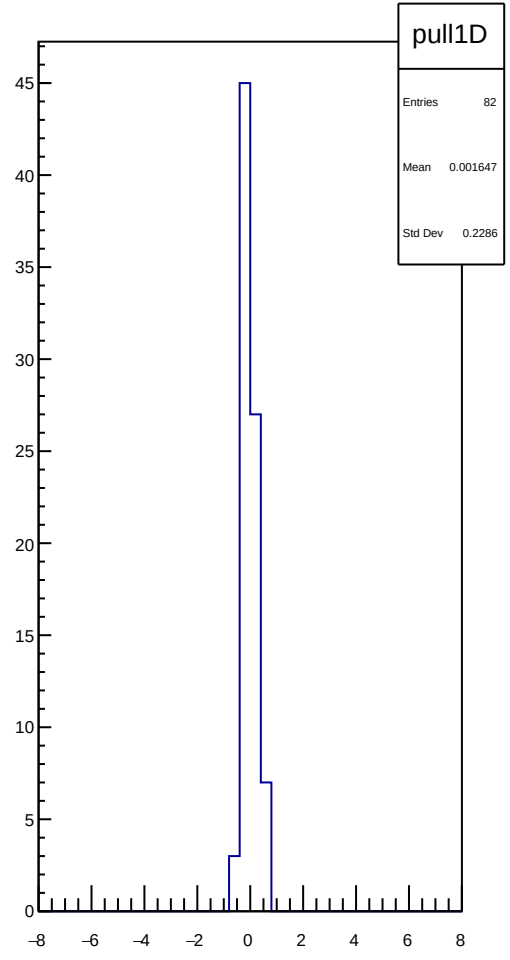

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 48.6 / 81
p0 3.597 ± 0.1369
pull
Entries 82
Mean 449.2
Std Dev 0
pull1D
Entries 82
Mean −0.008141
Std Dev 0.7698

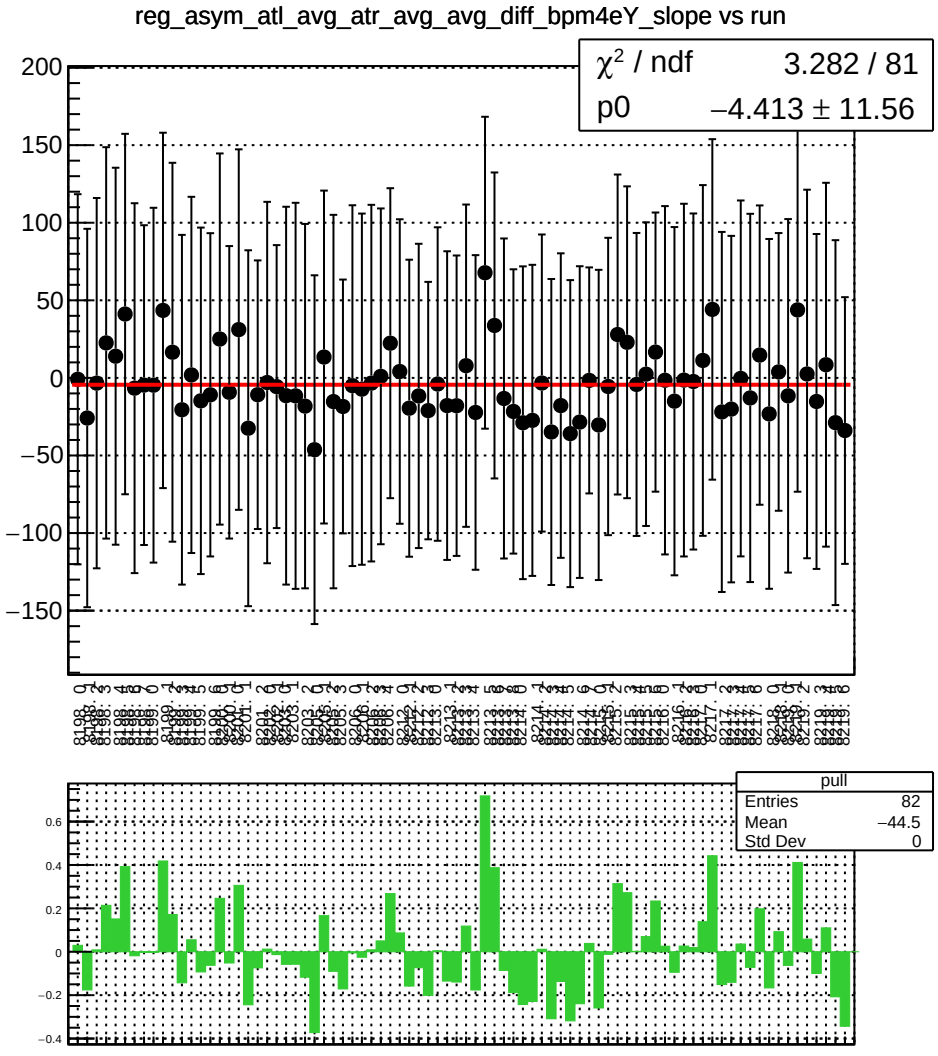

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.44 / 81
p0 −262.3 ± 6.471
pull
Entries 82
Mean −236.3
Std Dev 0
pull1D
Entries 82
Mean −0.002655
Std Dev 0.2327

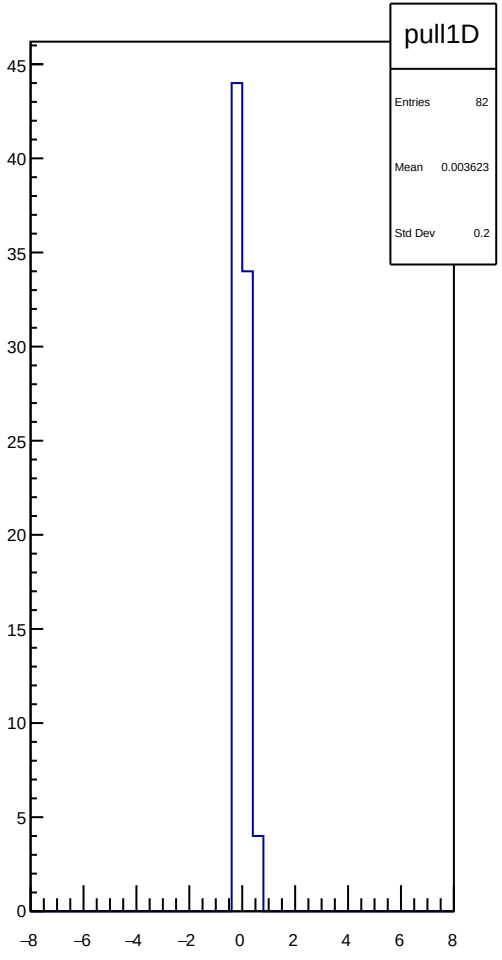

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.18 / 81
p0 60.69 ± 10.75
pull
Entries 82
Mean 131.3
Std Dev 0

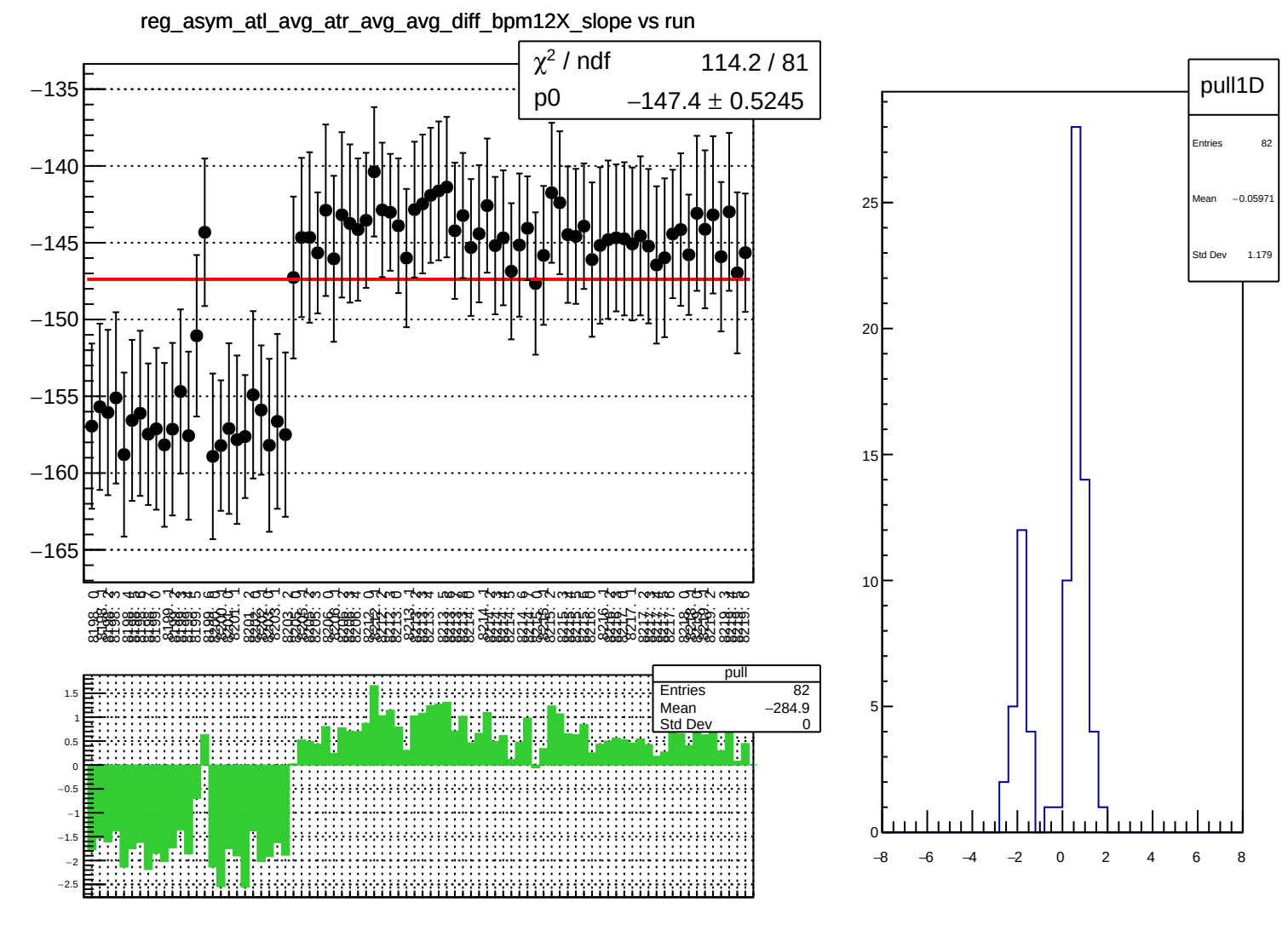

pull1D
Entries 82
Mean −0.002542
Std Dev 0.1969

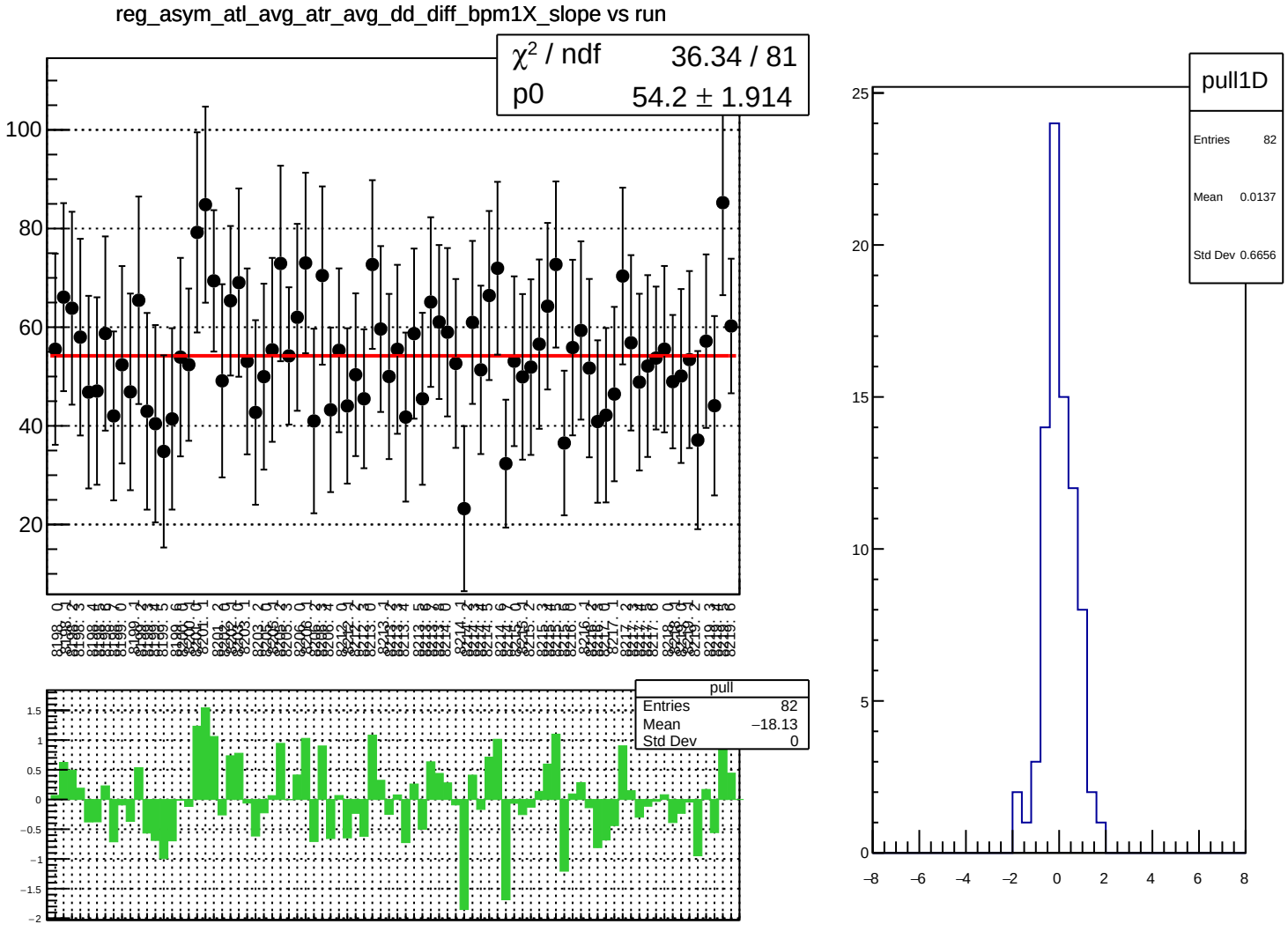

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.285 / 81
p0 241.1 ± 6.493
350
300
250
200
150
pull
Entries 82
Mean −248.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4

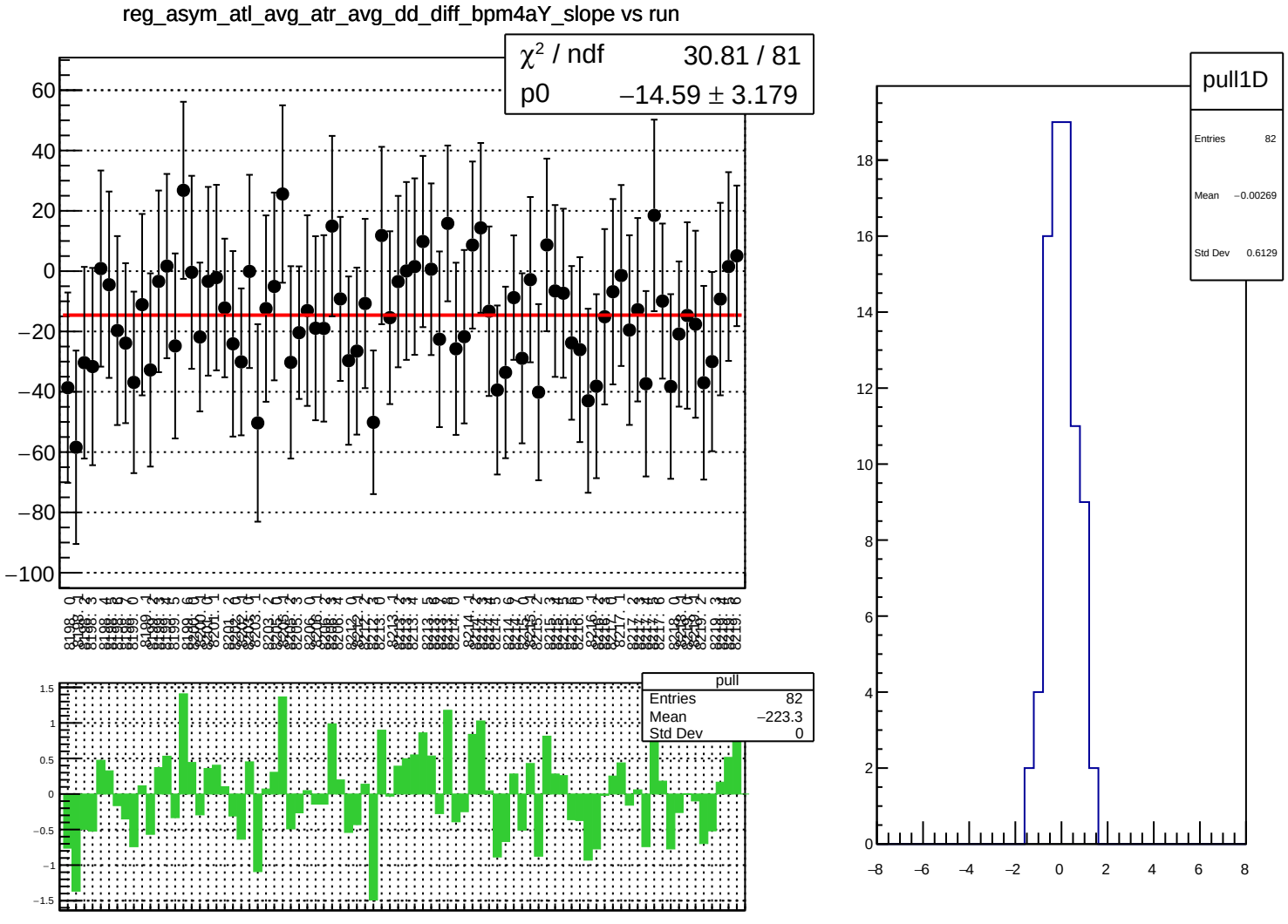

pull1D
Entries 82
Mean 0.001647
Std Dev 0.2286
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

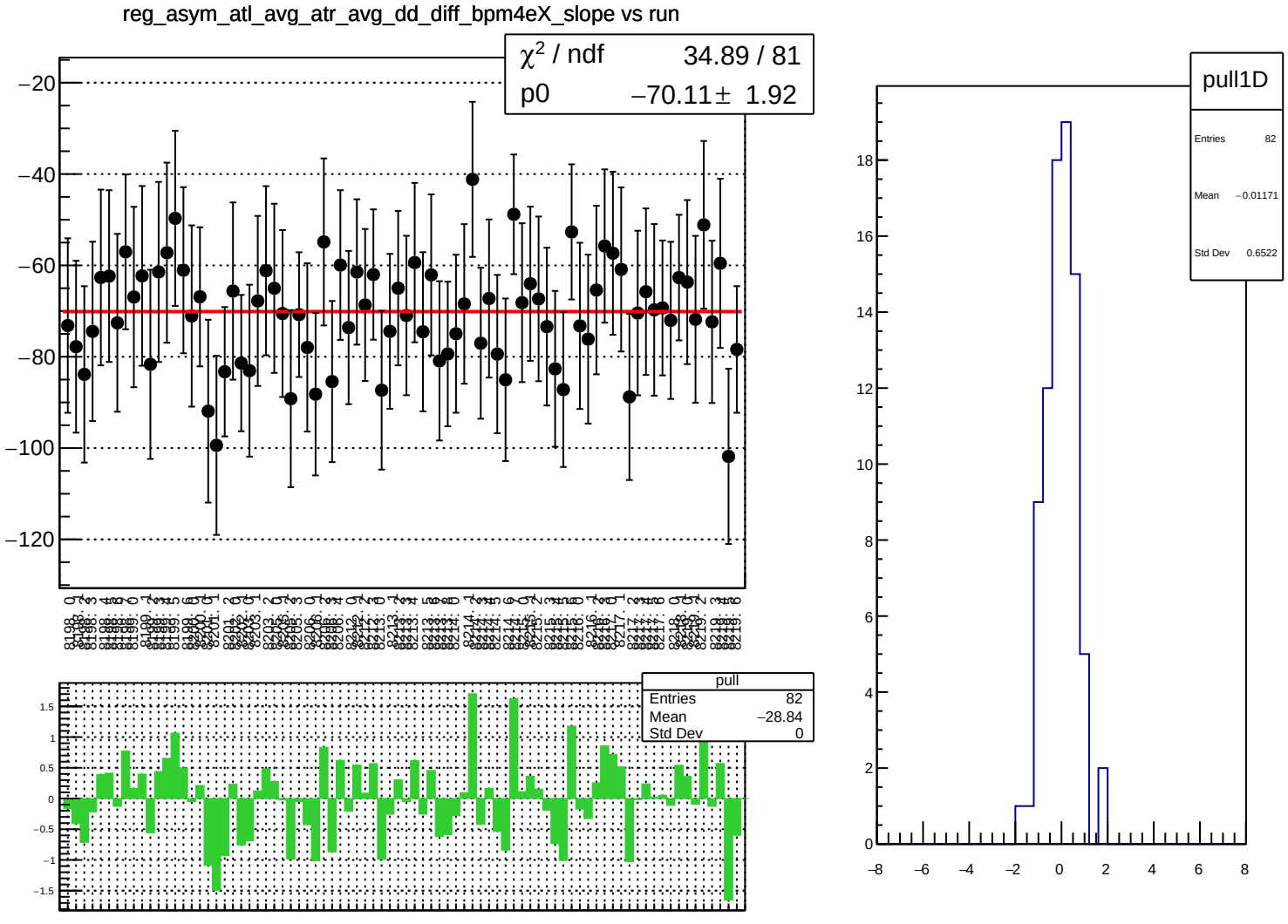

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.282 / 81
p0 −4.413 ± 11.56
pull
Entries 82
Mean −44.5
Std Dev 0

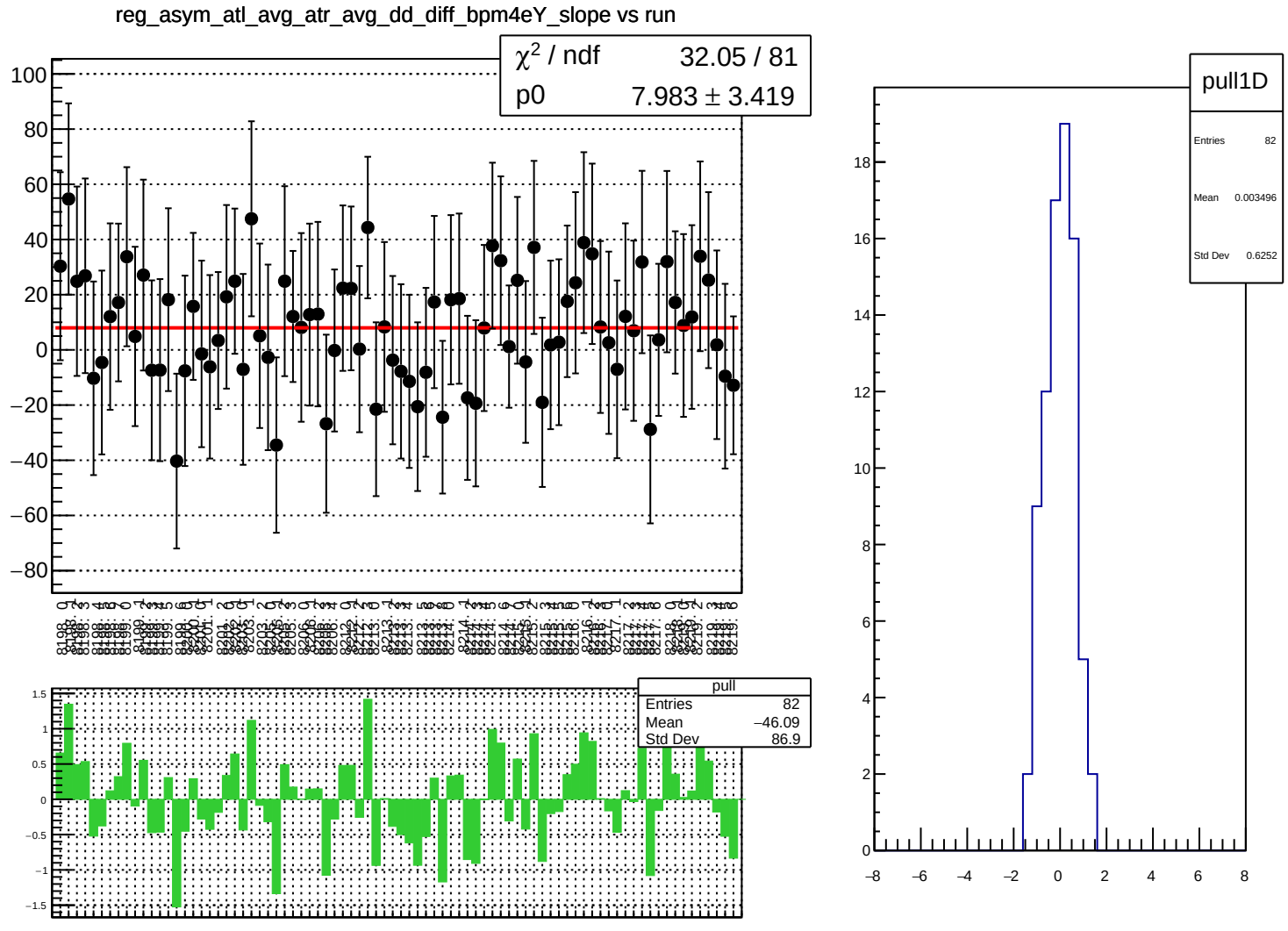

pull1D
Entries 82
Mean 0.003623
Std Dev 0.2

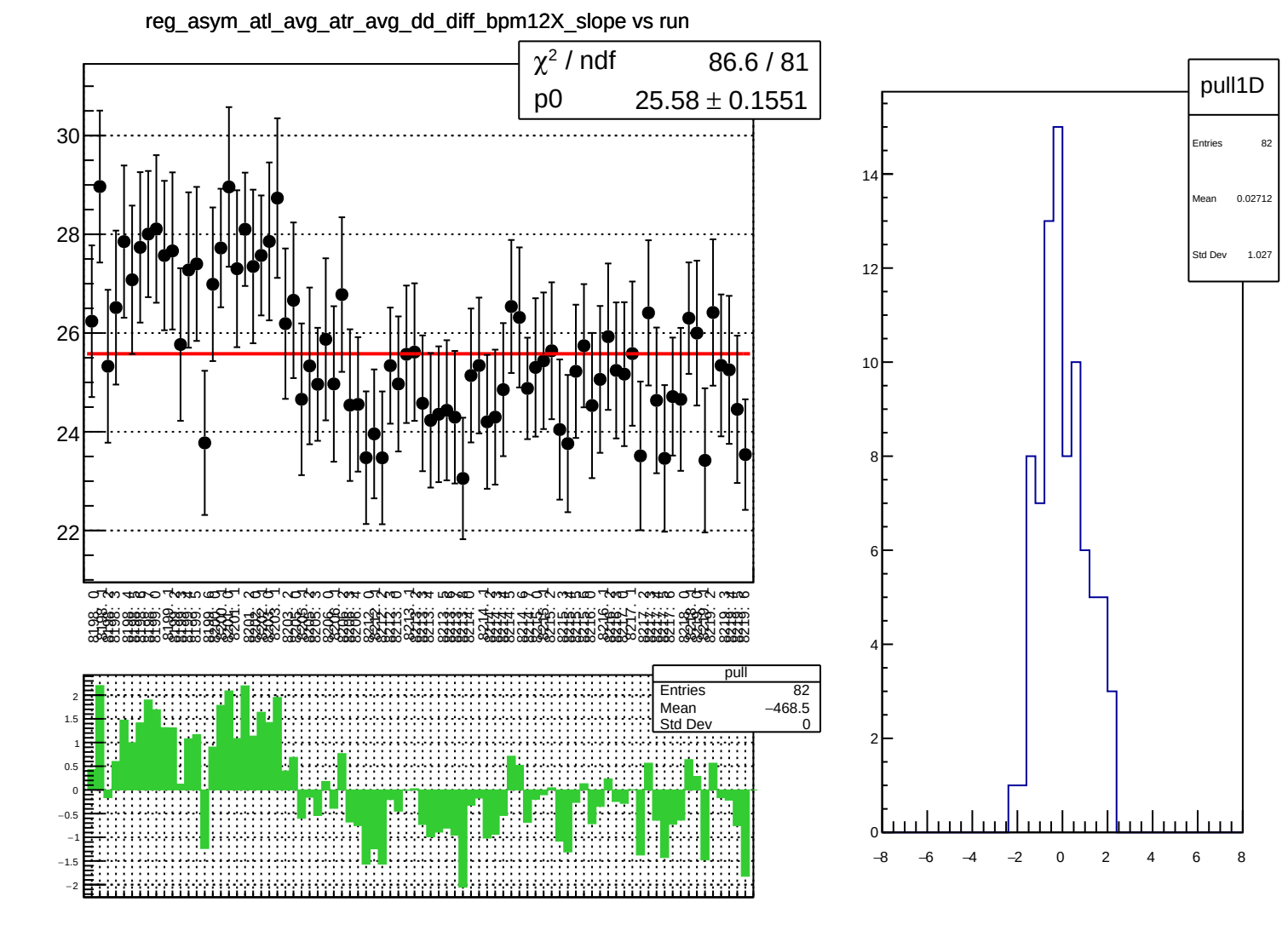

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 114.2 / 81
p0 −147.4 ± 0.5245
pull
Entries 82
Mean −284.9
Std Dev 0
pull1D
Entries 82
Mean −0.05971
Std Dev 1.179

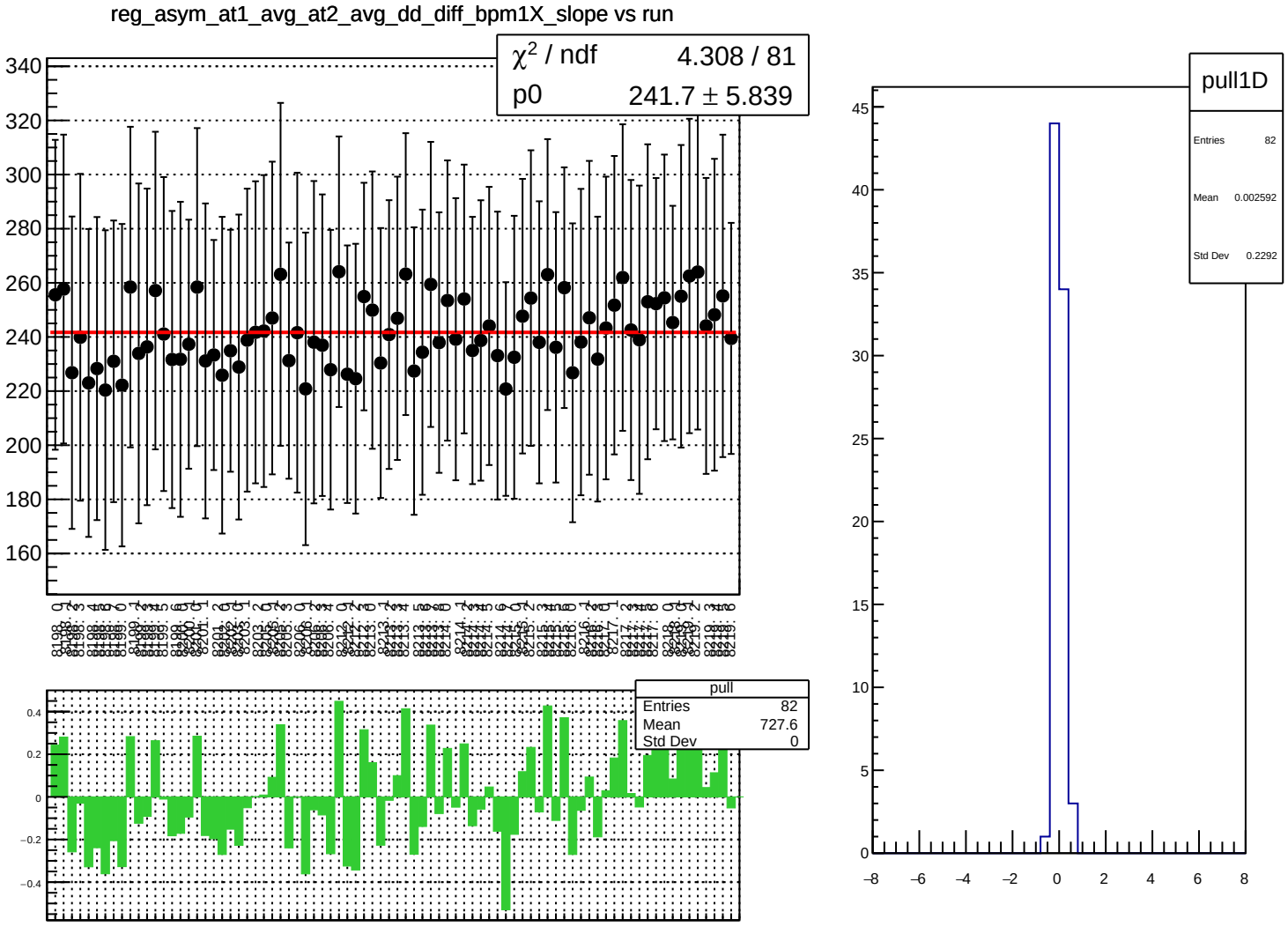

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 36.34 / 81
p0 54.2 ± 1.914
pull
Entries 82
Mean −18.13
Std Dev 0
pull1D
Entries 82
Mean 0.0137
Std Dev 0.6656

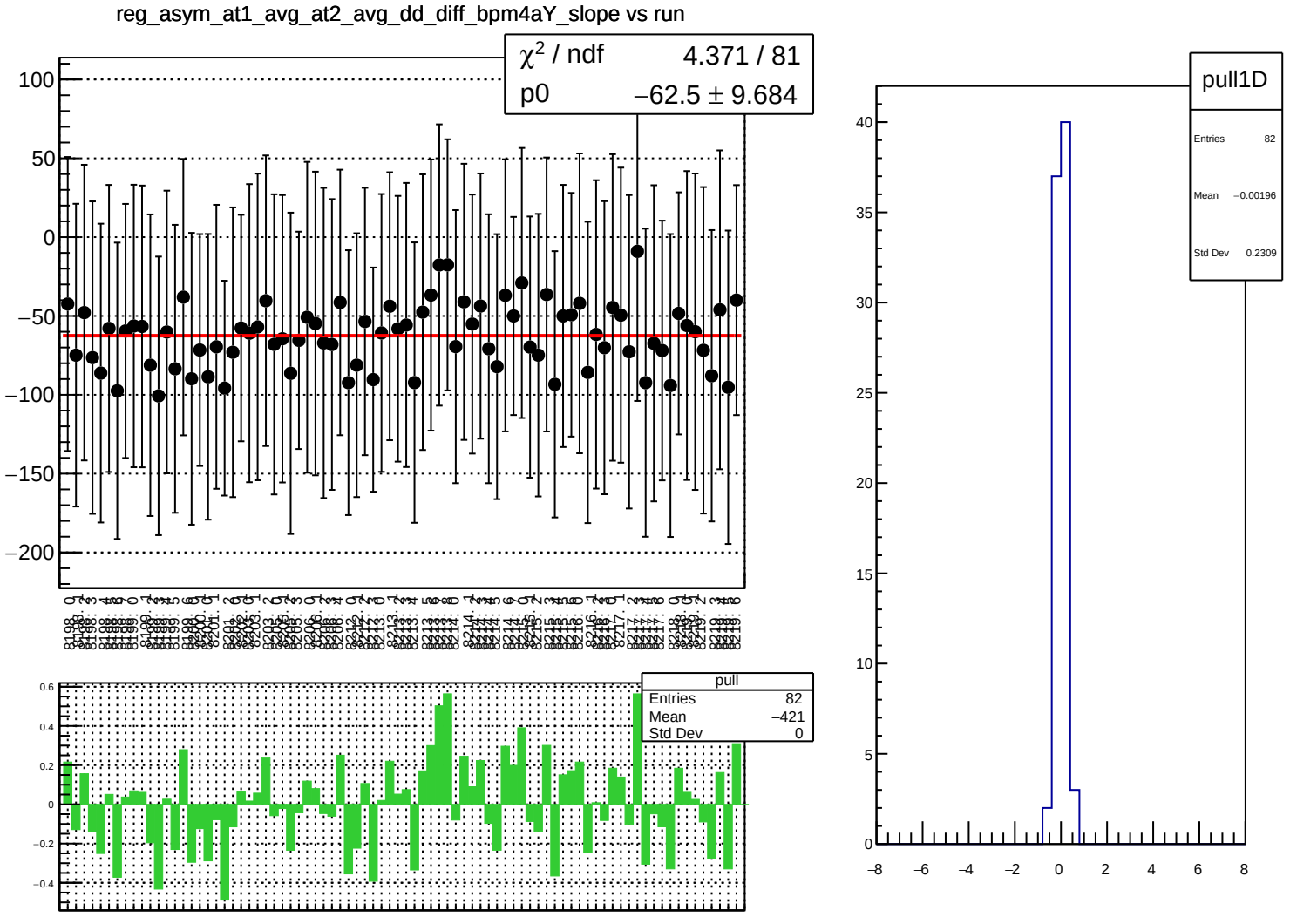

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.81 / 81
p0 −14.59 ± 3.179
pull
Entries 82
Mean −223.3
Std Dev 0
pull1D
Entries 82
Mean −0.00269
Std Dev 0.6129

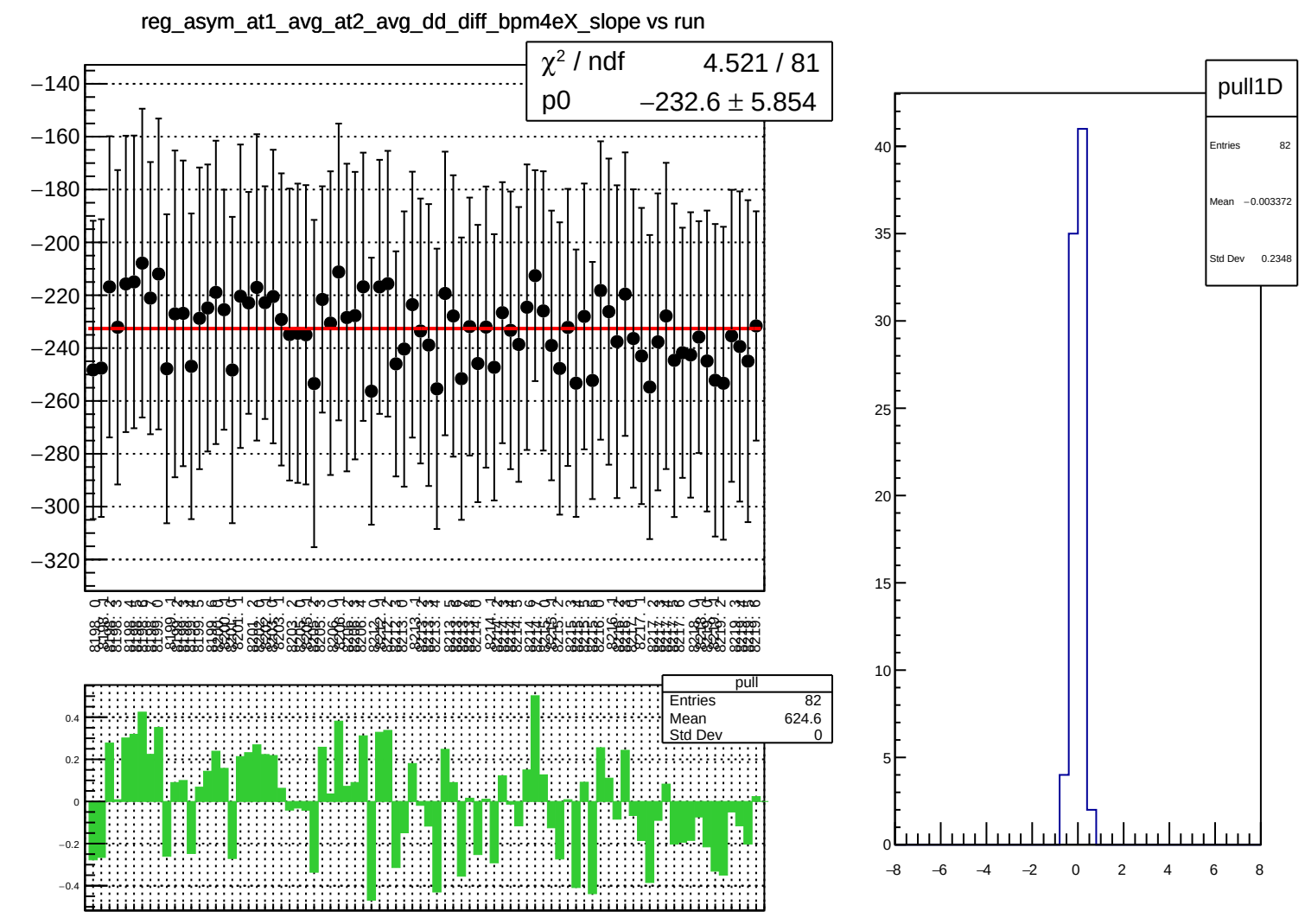

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.89 / 81
p0 −70.11± 1.92
pull
Entries 82
Mean −28.84
Std Dev 0
pull1D
Entries 82
Mean −0.01171
Std Dev 0.6522

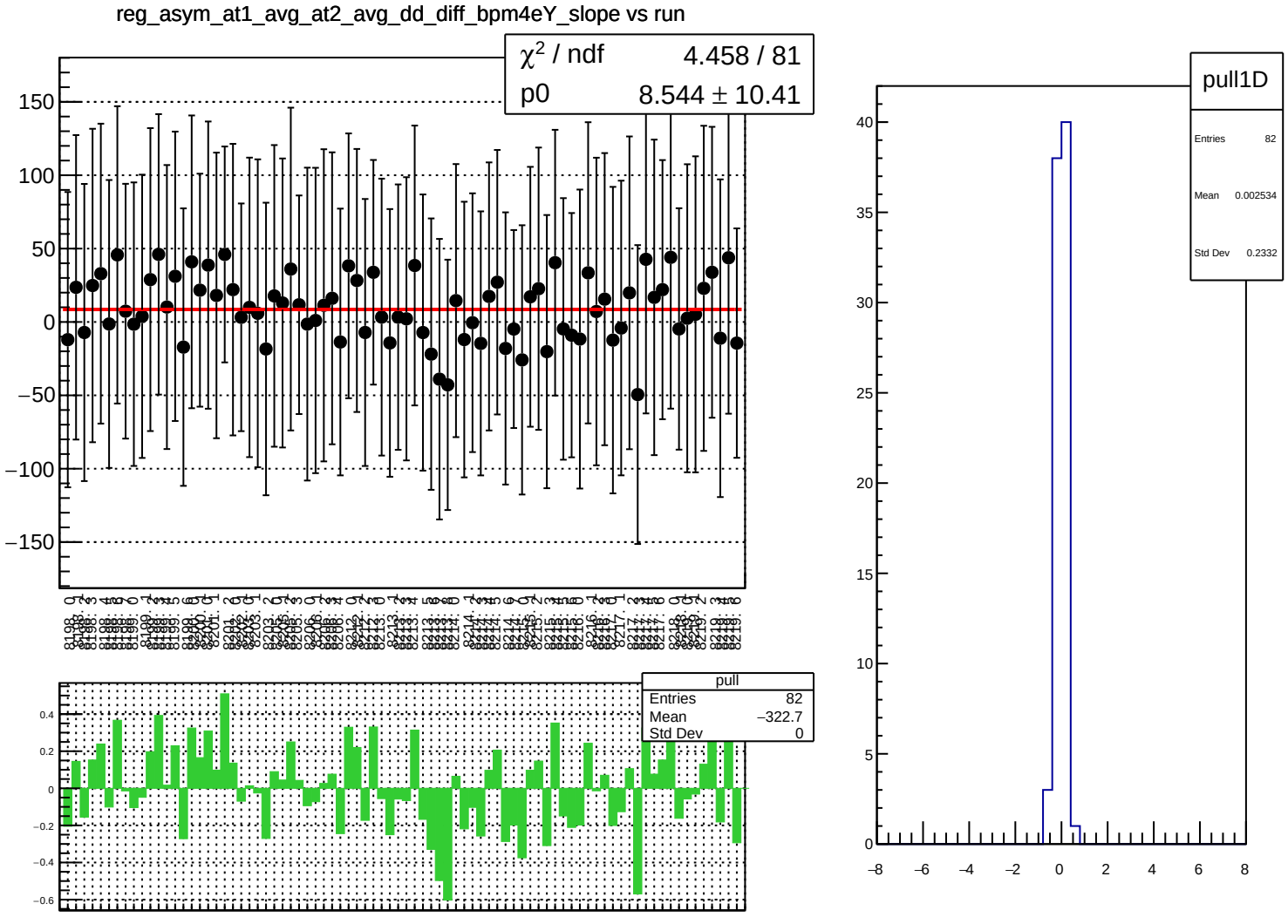

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.05 / 81
p0 7.983 ± 3.419
pull
Entries 82
Mean −46.09
Std Dev 86.9
pull1D
Entries 82
Mean 0.003496
Std Dev 0.6252

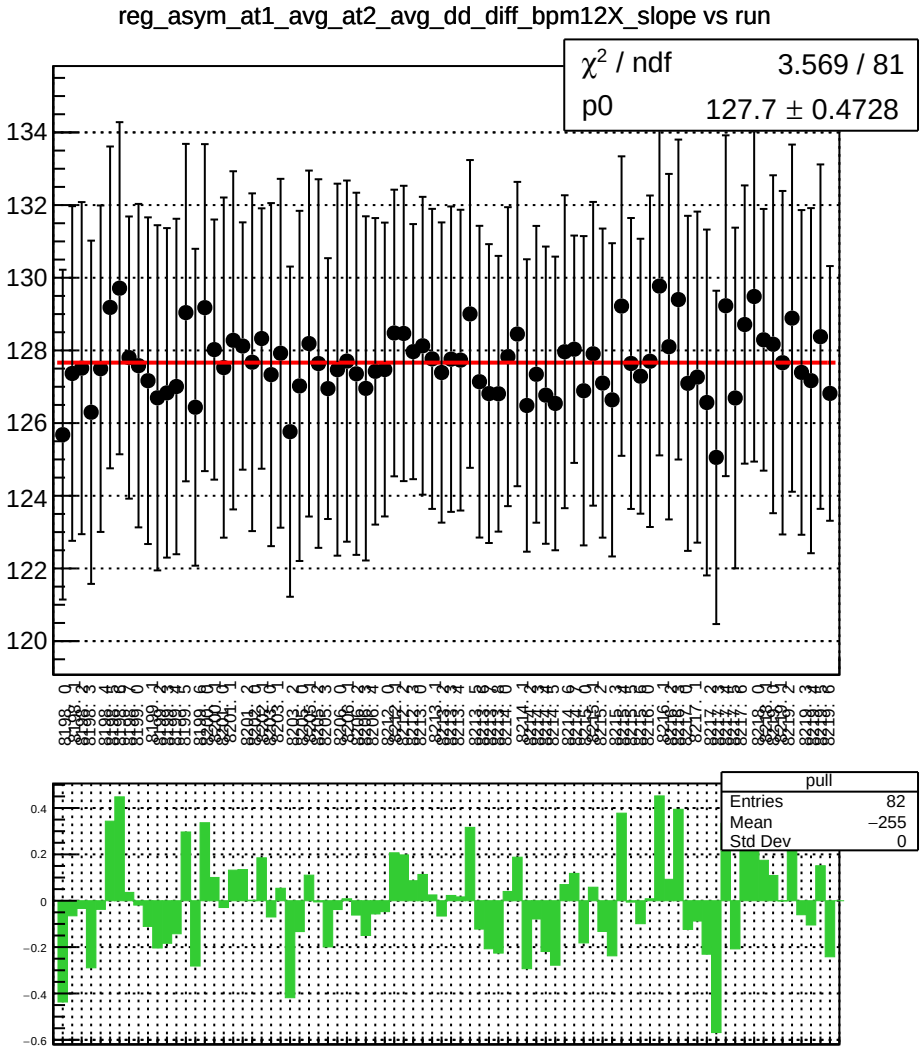

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 86.6 / 81
p0 25.58 ± 0.1551
30
28
26
24
22
pull
Entries 82
Mean −468.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.02712
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

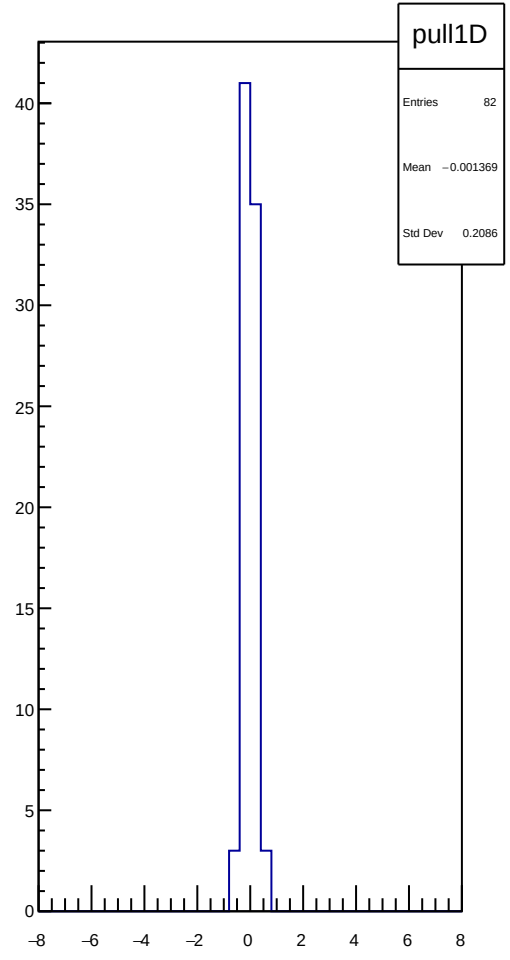

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 4.308 / 81
p0 241.7 ± 5.839
pull
Entries 82
Mean 727.6
Std Dev 0
pull1D
Entries 82
Mean 0.002592
Std Dev 0.2292

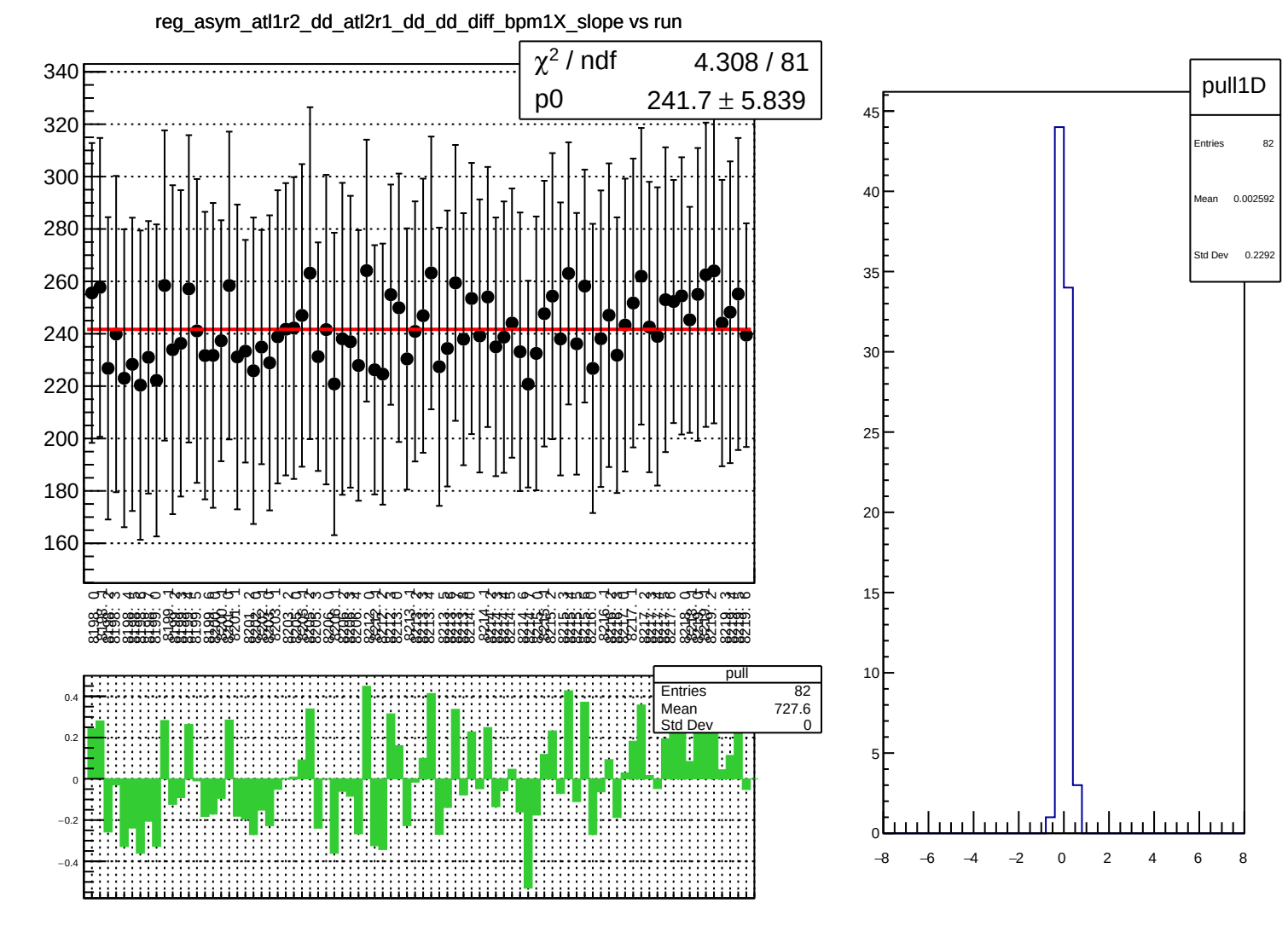

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.371 / 81
p0 −62.5 ± 9.684
pull
Entries 82
Mean −421
Std Dev 0
pull1D
Entries 82
Mean −0.00196
Std Dev 0.2309

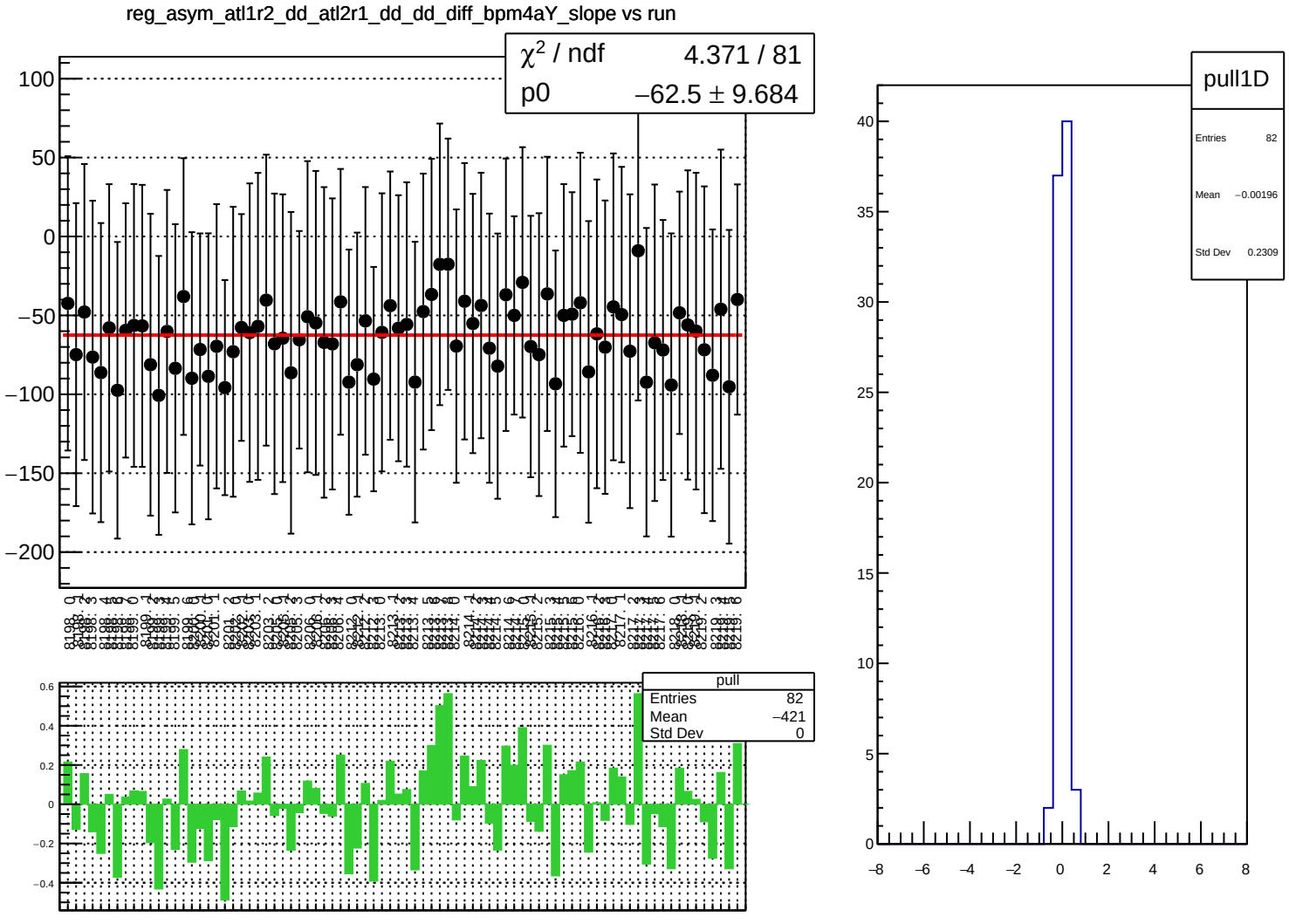

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.521 / 81
p0 −232.6 ± 5.854
pull
Entries 82
Mean 624.6
Std Dev 0
pull1D
Entries 82
Mean −0.003372
Std Dev 0.2348

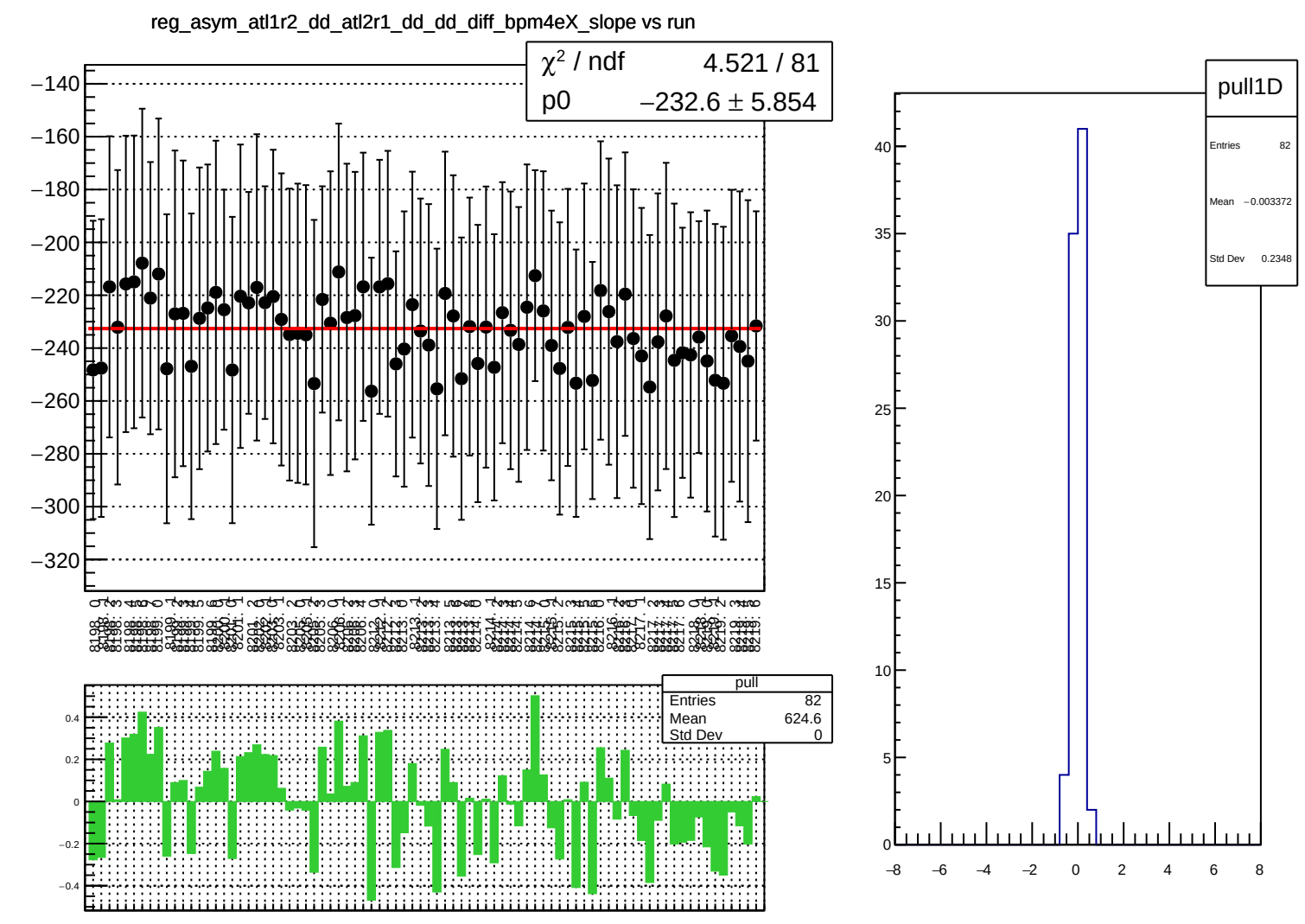

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.458 / 81
p0 8.544 ± 10.41
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −322.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean 0.002534
Std Dev 0.2332
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

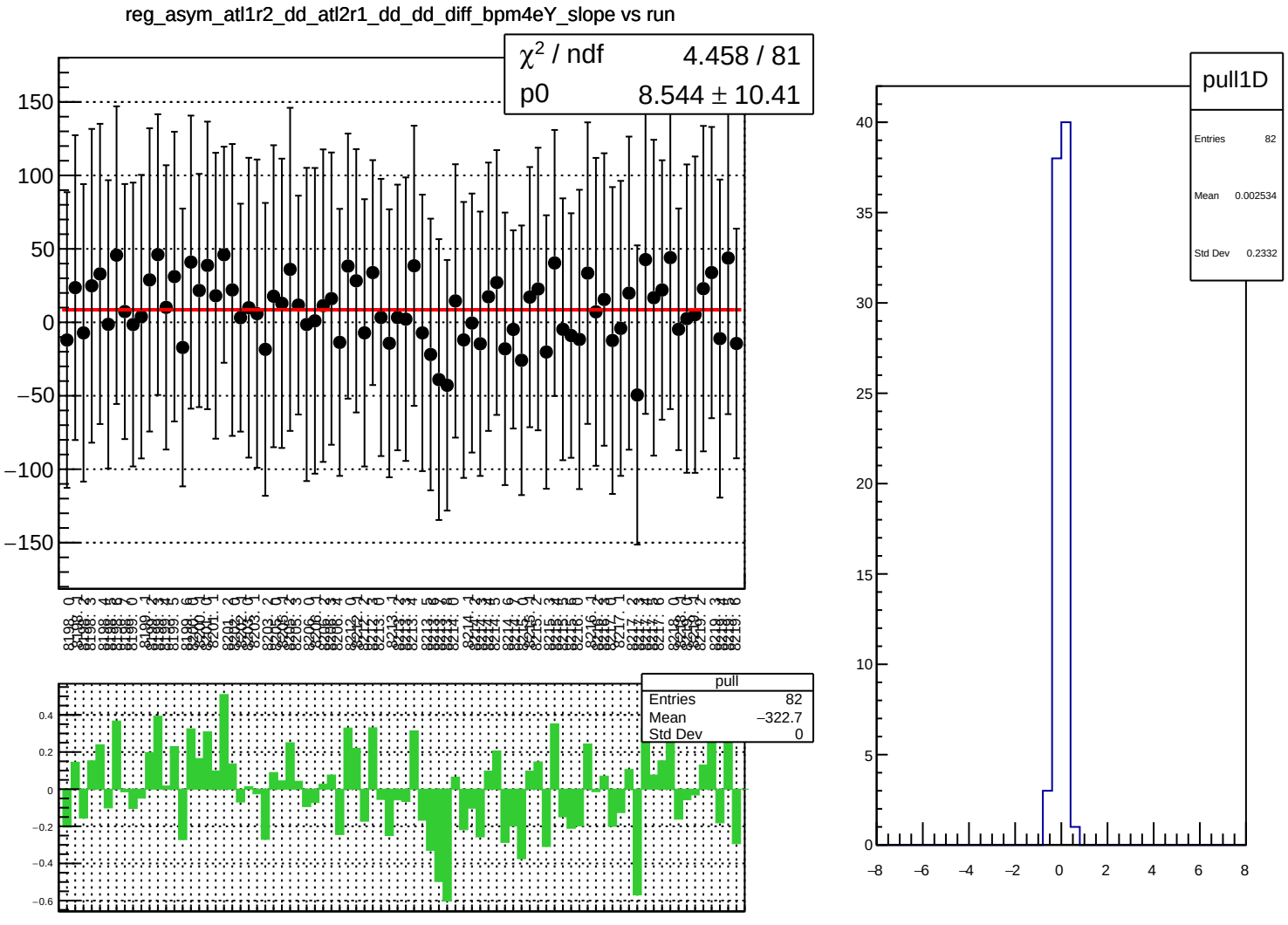

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 3.569 / 81
p0 127.7 ± 0.4728
pull
Entries 82
Mean −255
Std Dev 0

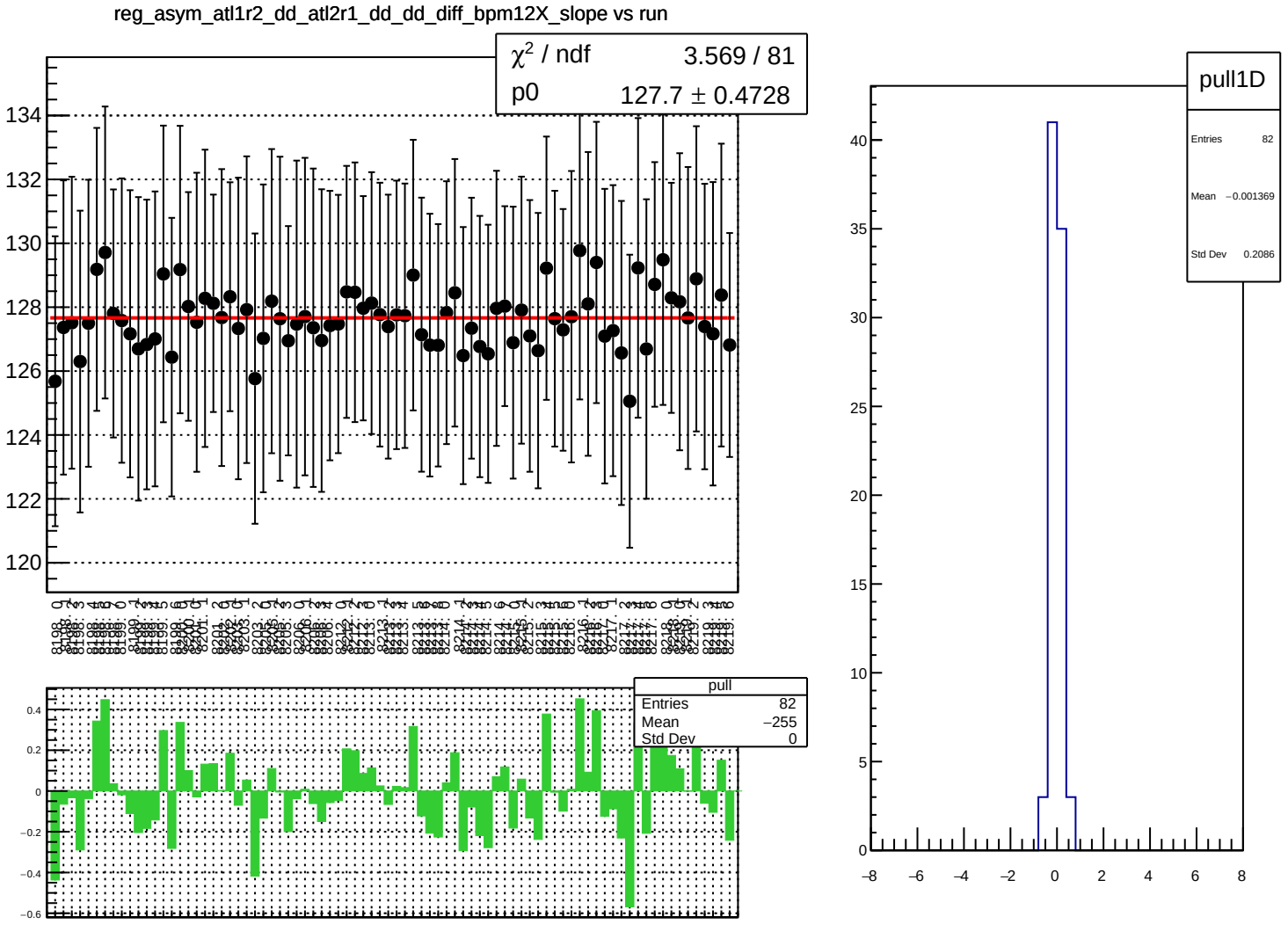

pull1D
Entries 82
Mean −0.001369
Std Dev 0.2086

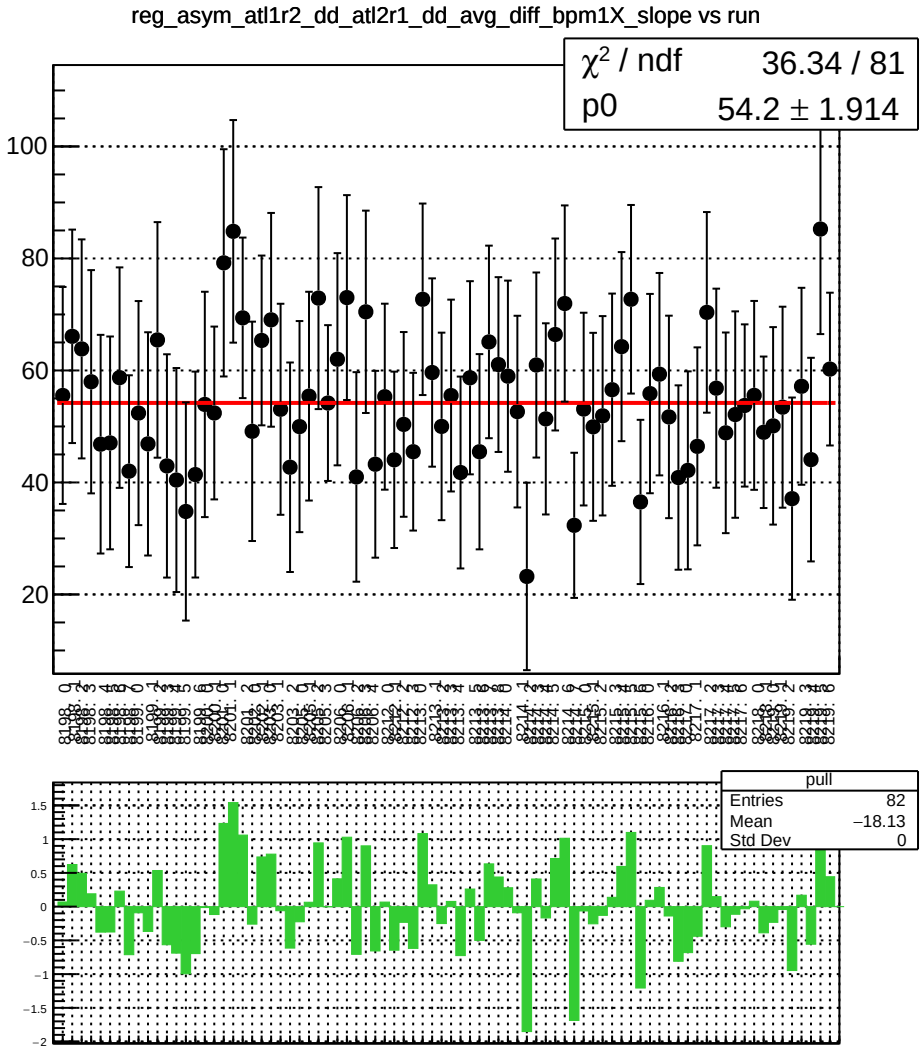

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 4.308 / 81
p0 241.7 ± 5.839
340
320
300
280
260
240
220
200
180
160
pull
Entries 82
Mean 727.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 82
Mean 0.002592
Std Dev 0.2292
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

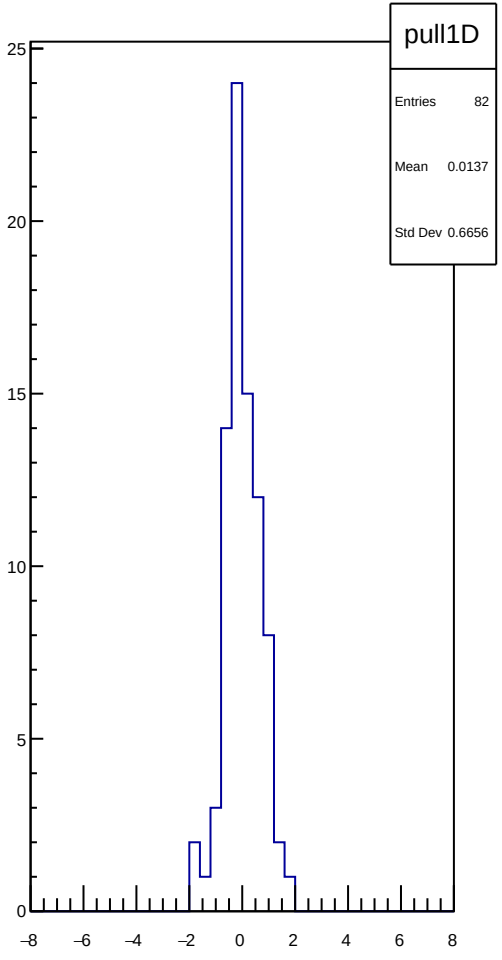

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.371 / 81
p0 −62.5 ± 9.684
pull
Entries 82
Mean −421
Std Dev 0
pull1D
Entries 82
Mean −0.00196
Std Dev 0.2309

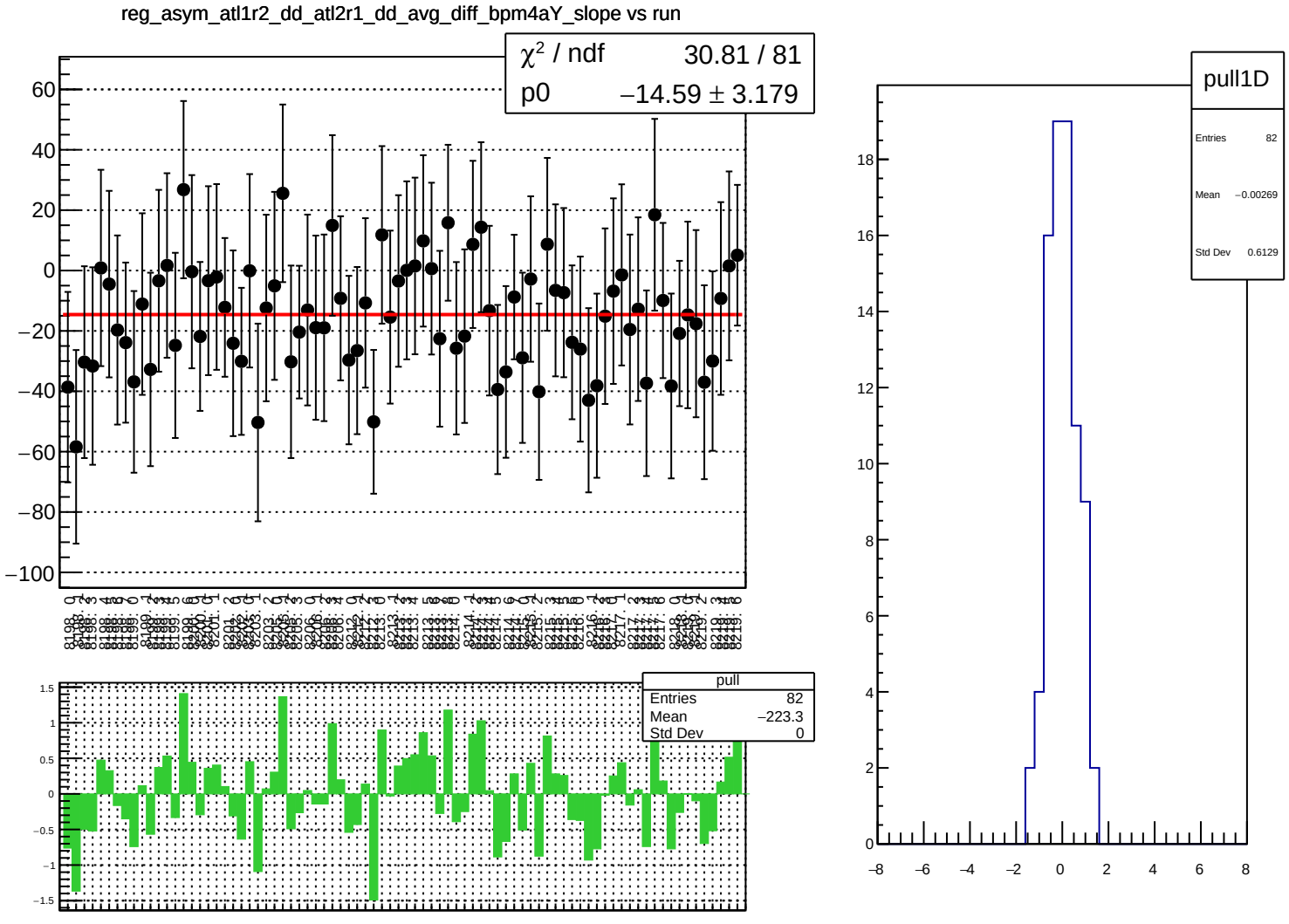

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.521 / 81
p0 −232.6 ± 5.854
pull
Entries 82
Mean 624.6
Std Dev 0
pull1D
Entries 82
Mean −0.003372
Std Dev 0.2348

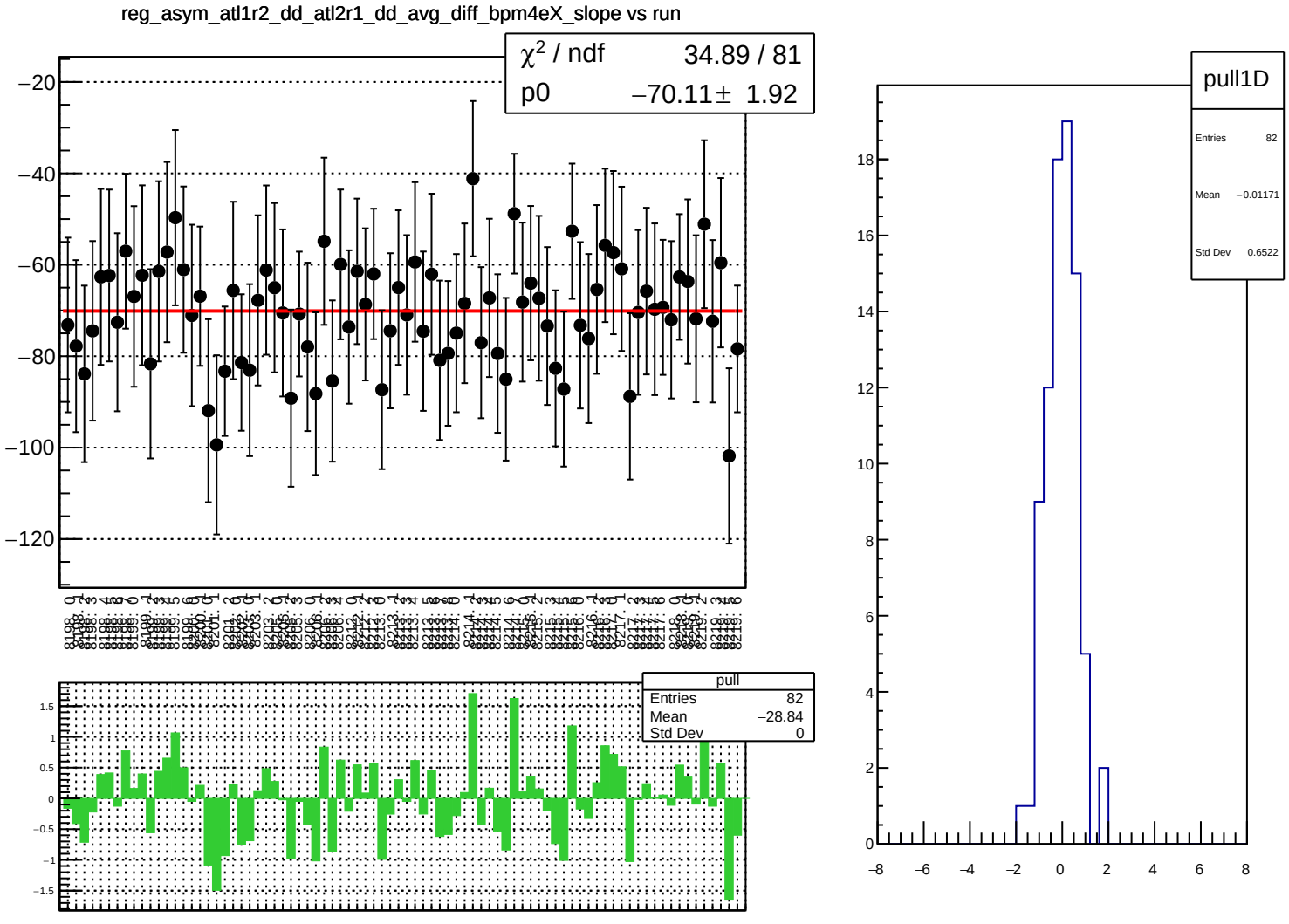

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.458 / 81
p0 8.544 ± 10.41
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −322.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean 0.002534
Std Dev 0.2332
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

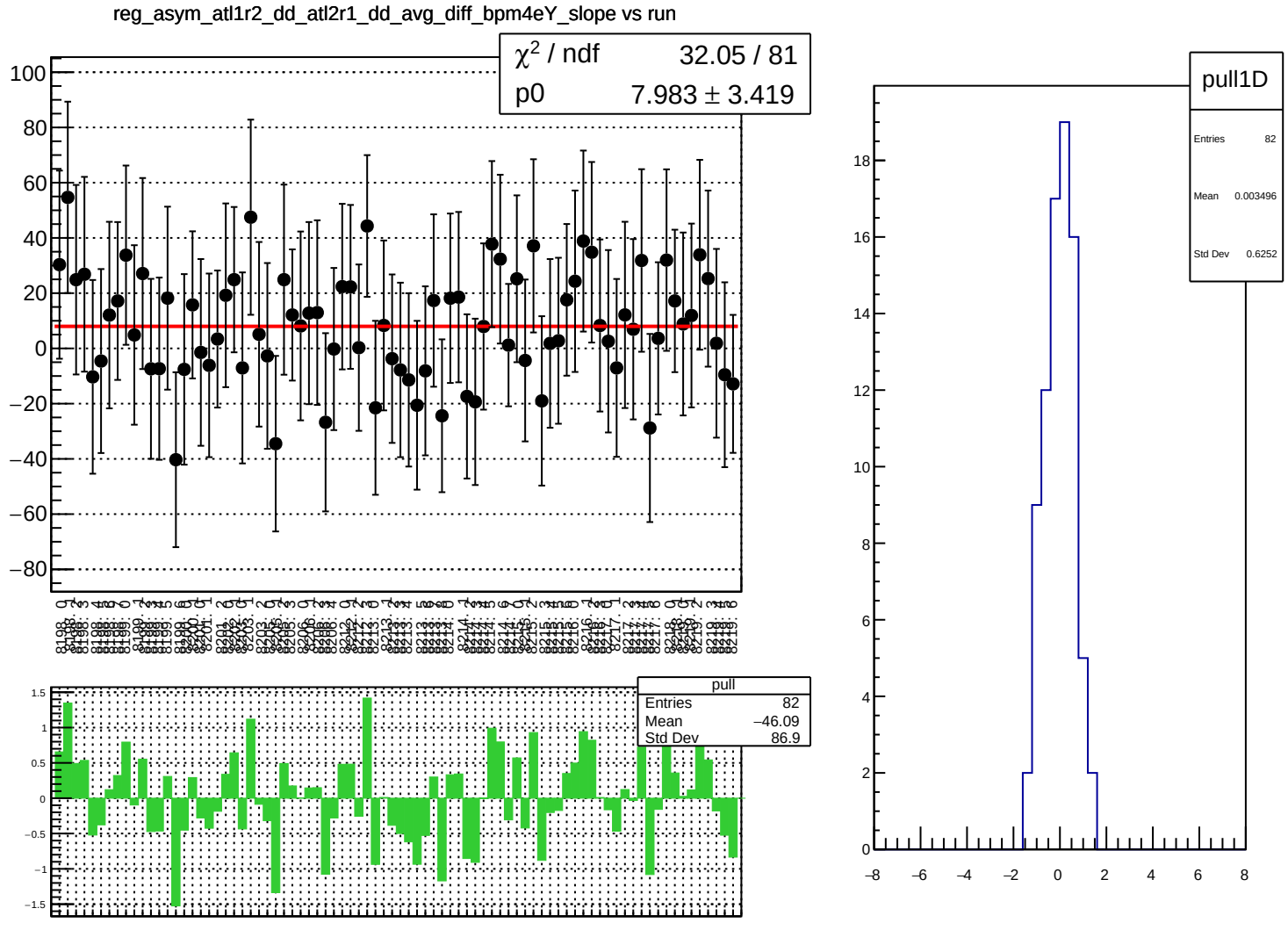

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 3.569 / 81
p0 127.7 ± 0.4728
134
132
130
128
126
124
122
120
pull
Entries 82
Mean −255
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean −0.001369
Std Dev 0.2086
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

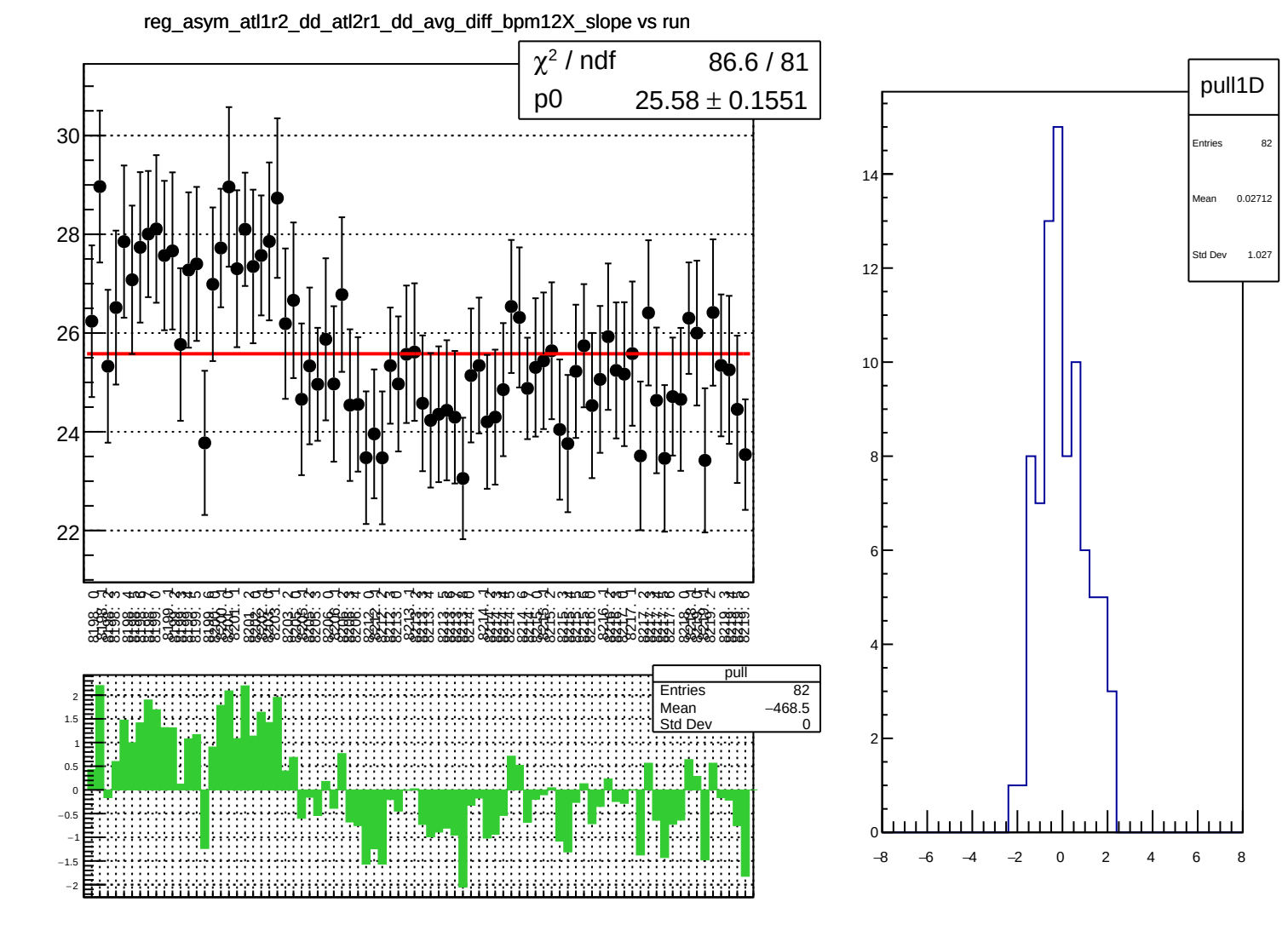

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 36.34 / 81
p0 54.2 ± 1.914
pull
Entries 82
Mean −18.13
Std Dev 0

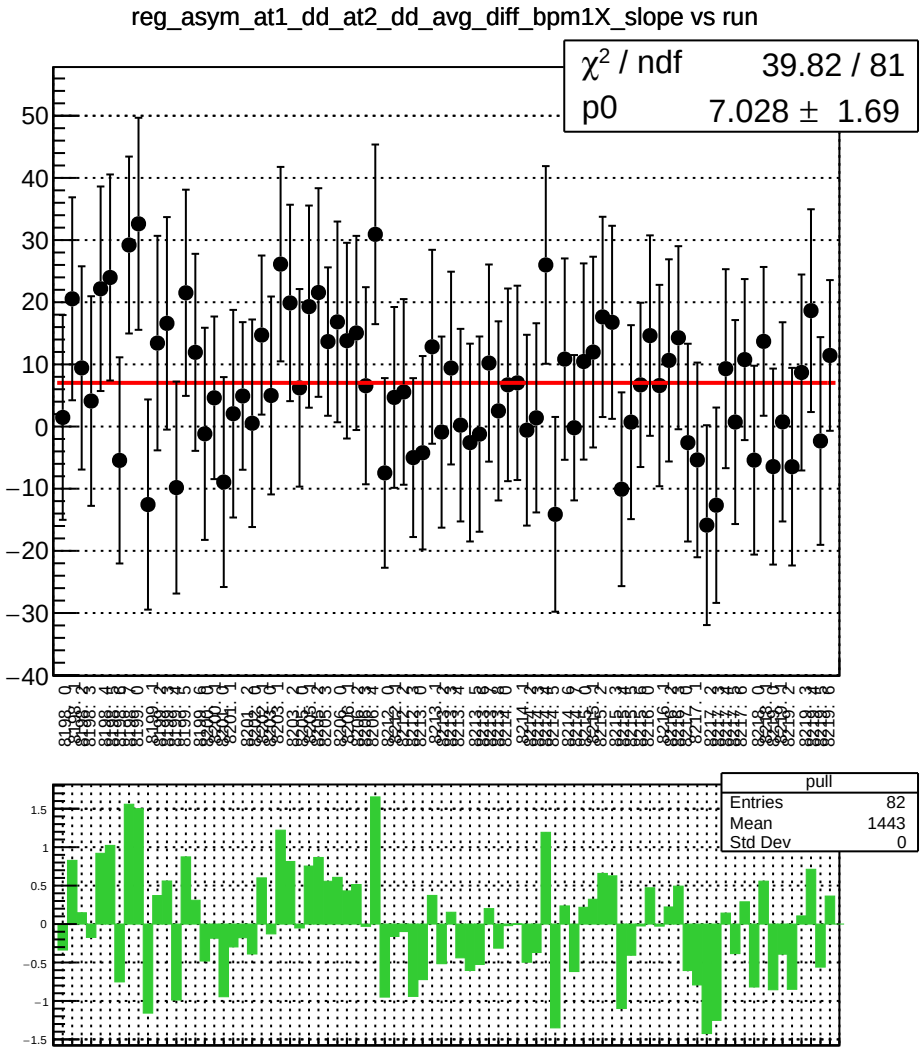

pull1D
Entries 82
Mean 0.0137
Std Dev 0.6656

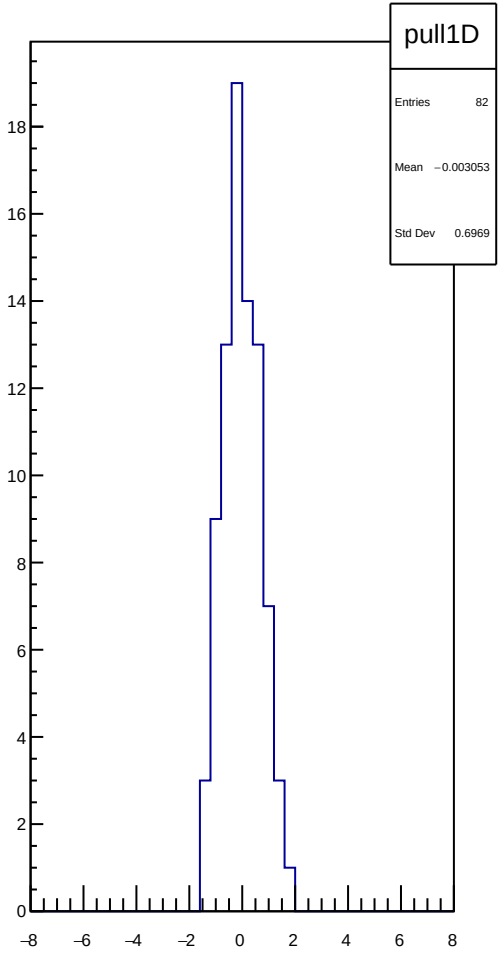

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.81 / 81
p0 −14.59 ± 3.179
pull
Entries 82
Mean −223.3
Std Dev 0
pull1D
Entries 82
Mean −0.00269
Std Dev 0.6129

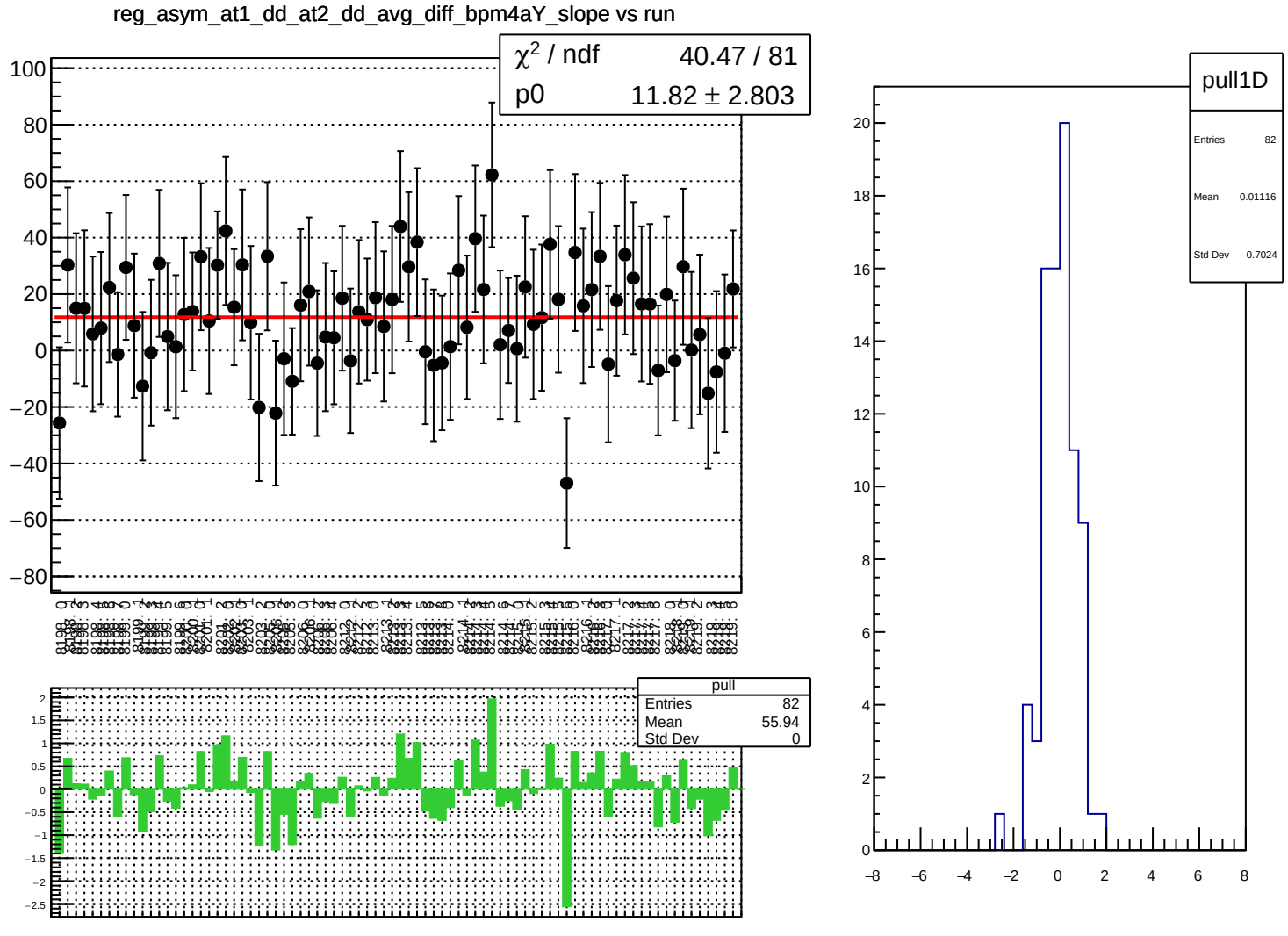

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.89 / 81
p0 −70.11 ± 1.92
pull
Entries 82
Mean −28.84
Std Dev 0
pull1D
Entries 82
Mean −0.01171
Std Dev 0.6522

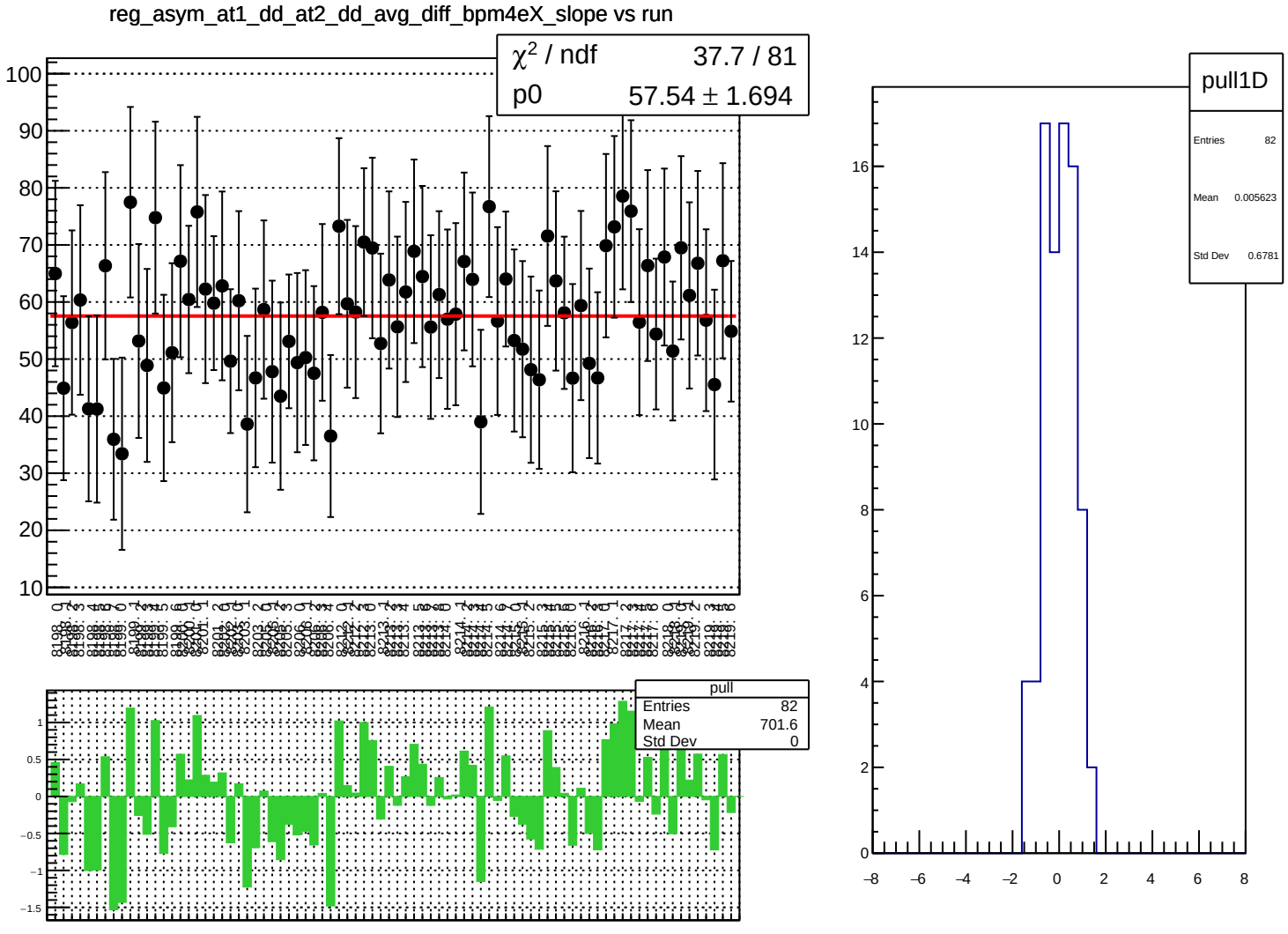

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.05 / 81
p0 7.983 ± 3.419
pull
Entries 82
Mean −46.09
Std Dev 86.9
pull1D
Entries 82
Mean 0.003496
Std Dev 0.6252

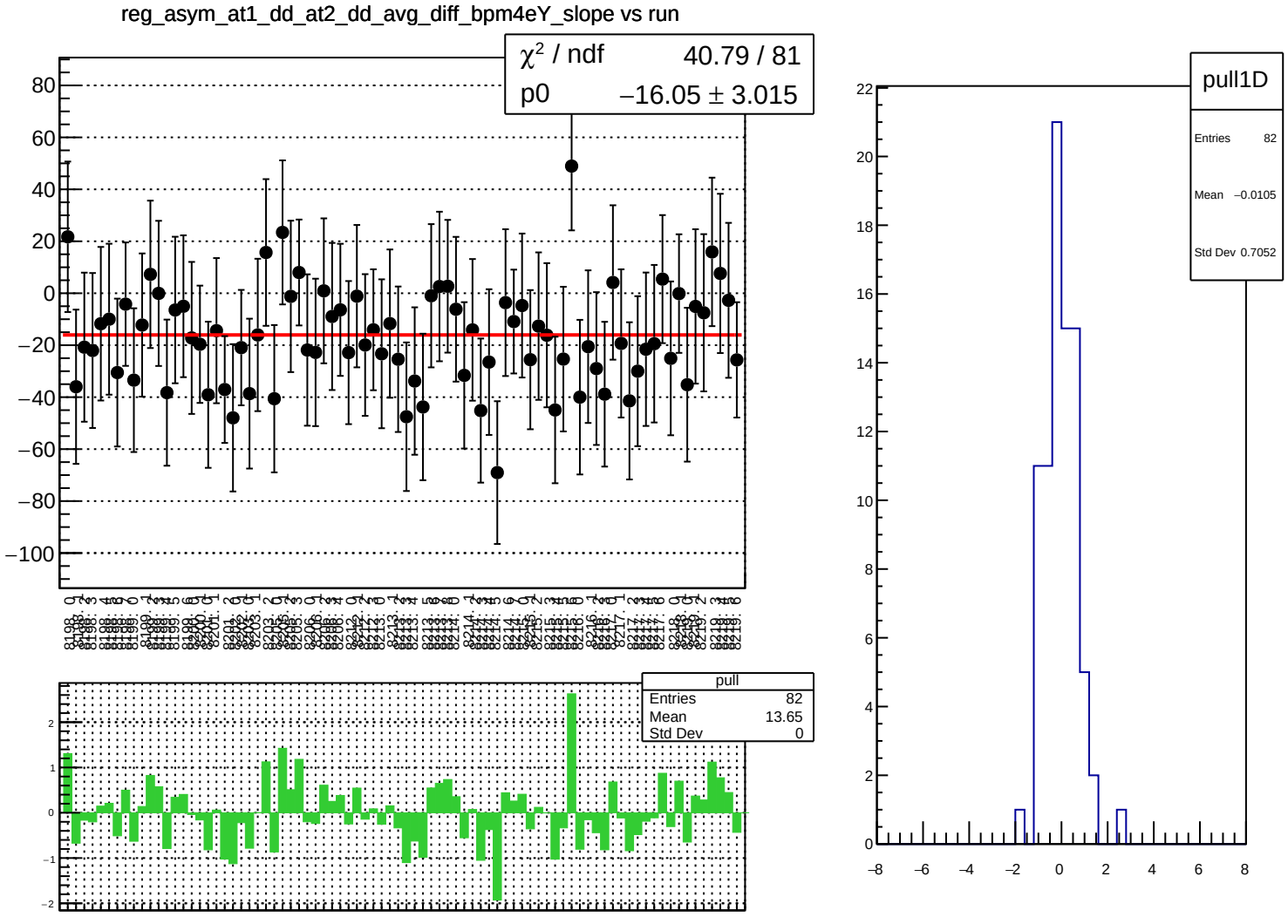

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 86.6 / 81
p0 25.58 ± 0.1551
30
28
26
24
22
pull
Entries 82
Mean −468.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.02712
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

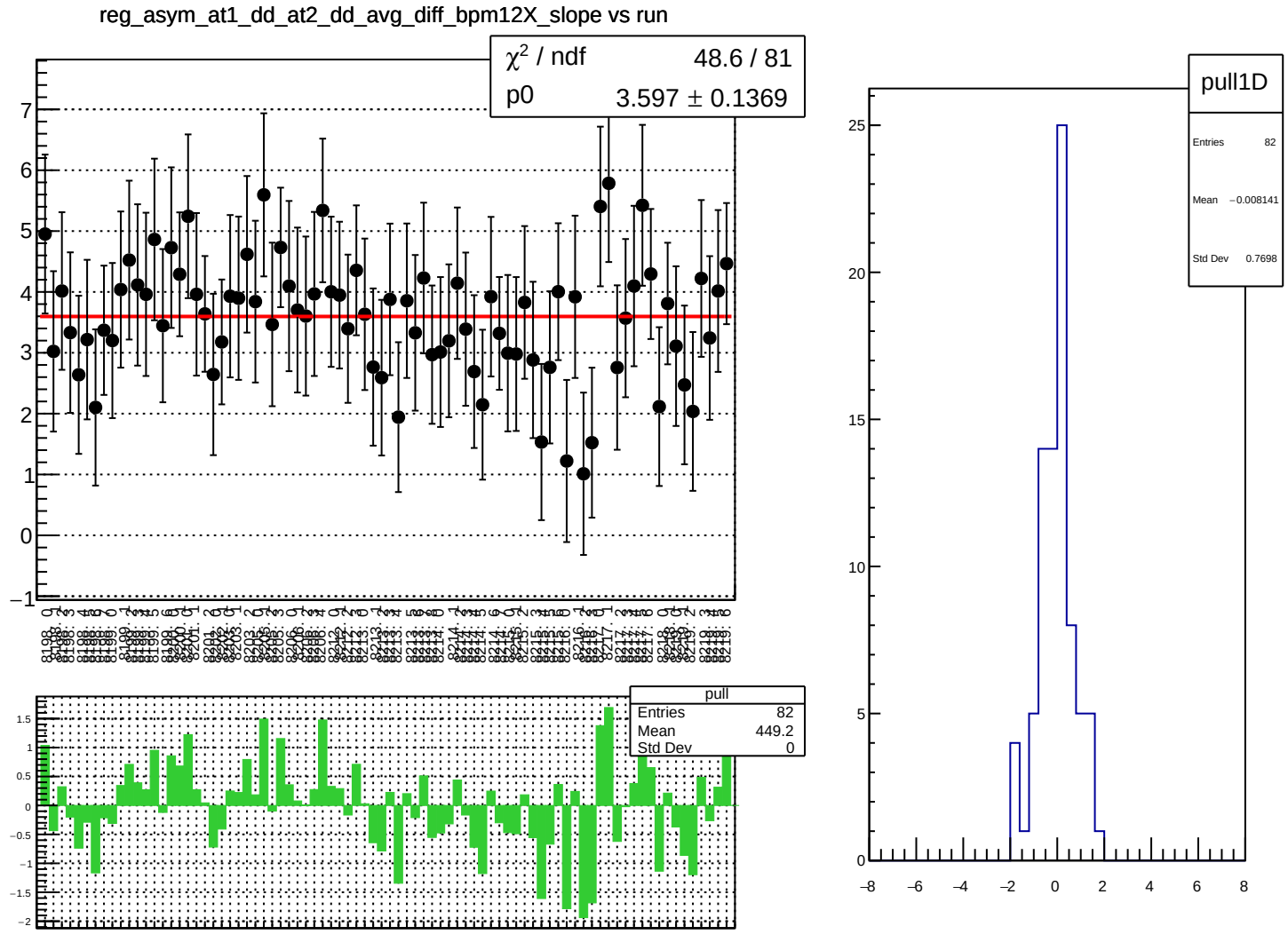

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 39.82 / 81
p0 7.028 ± 1.69
pull
Entries 82
Mean 1443
Std Dev 0

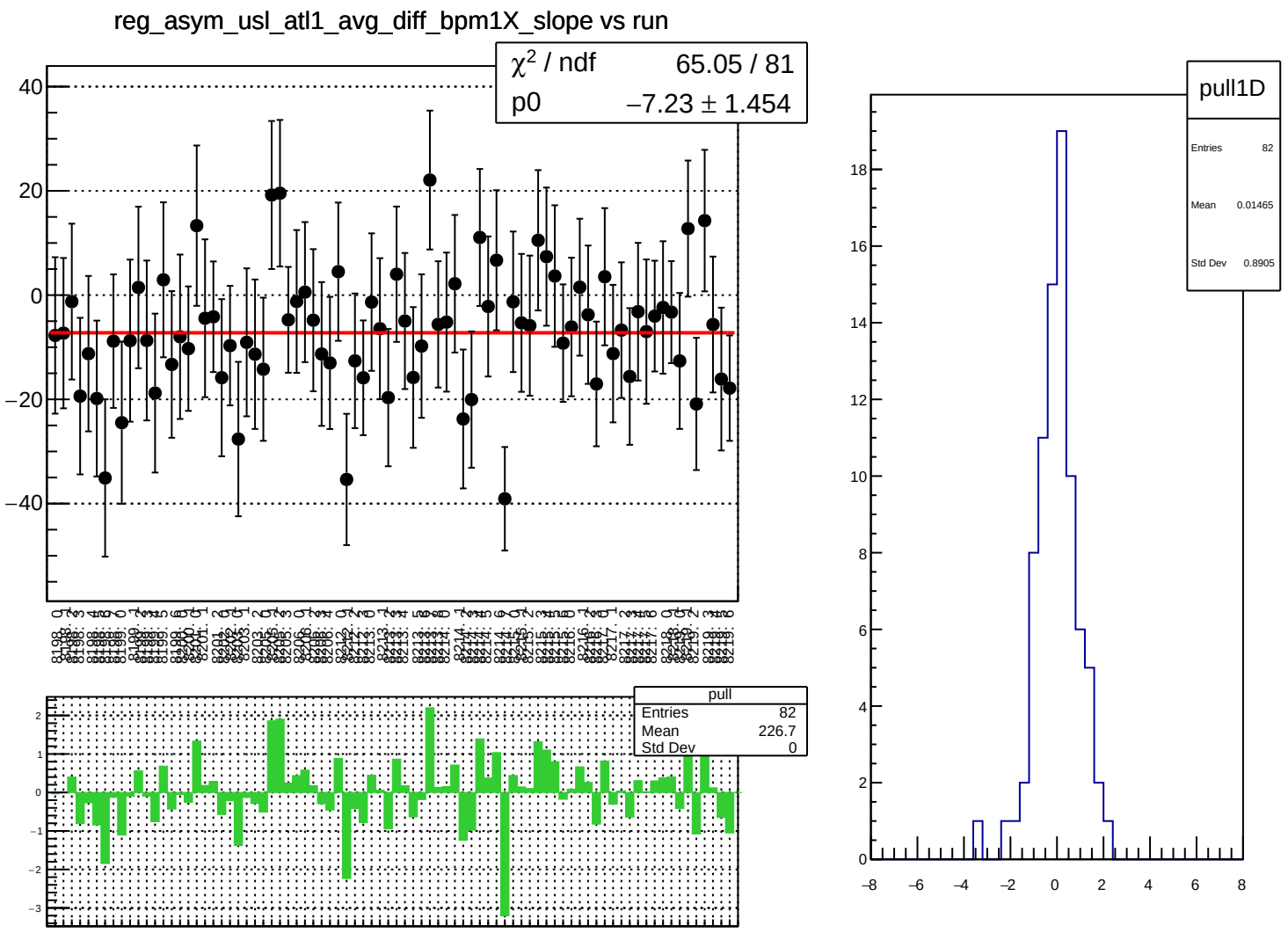

pull1D
Entries 82
Mean −0.003053
Std Dev 0.6969

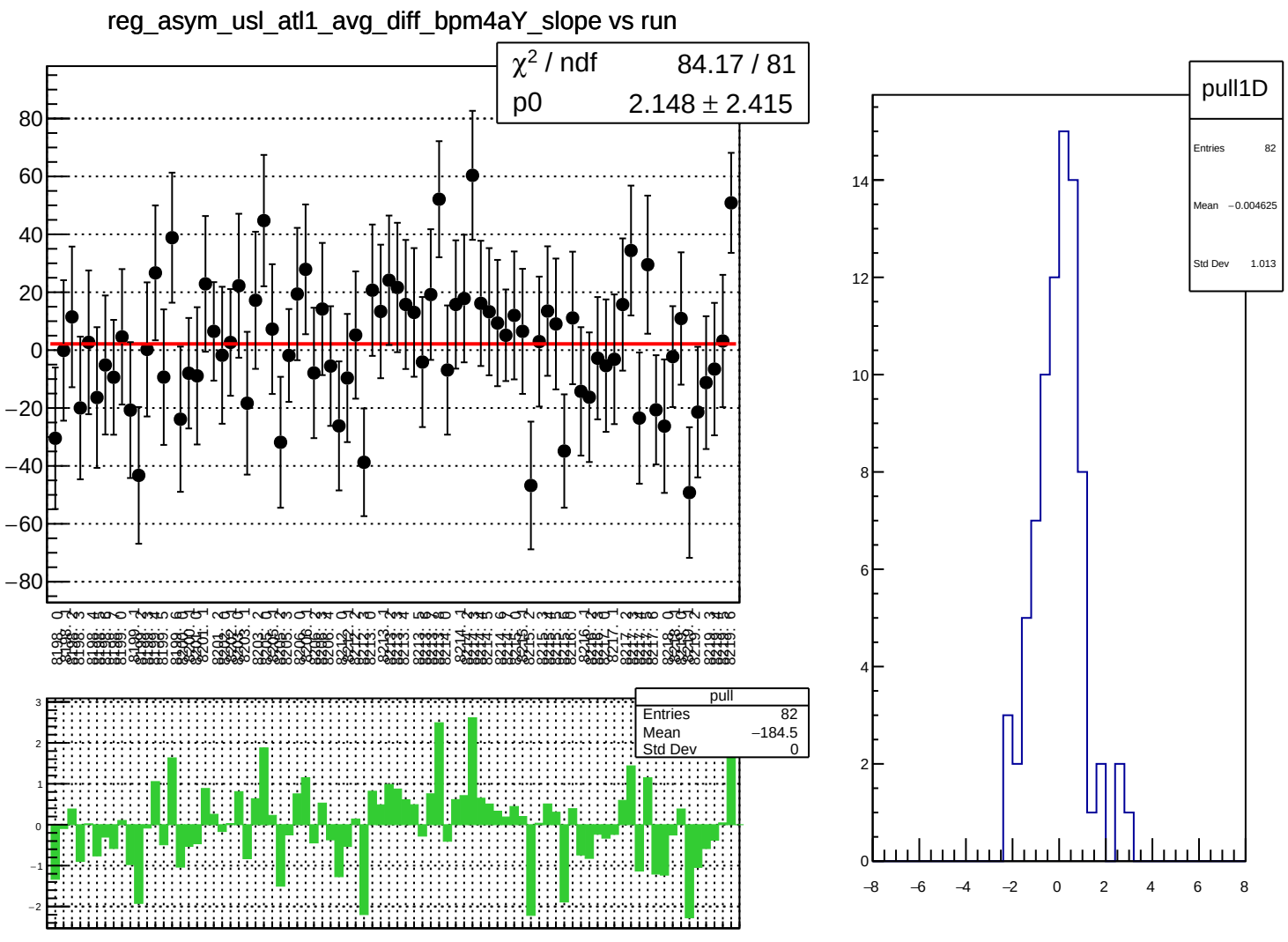

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.47 / 81
p0 11.82 ± 2.803
pull
Entries 82
Mean 55.94
Std Dev 0
pull1D
Entries 82
Mean 0.01116
Std Dev 0.7024

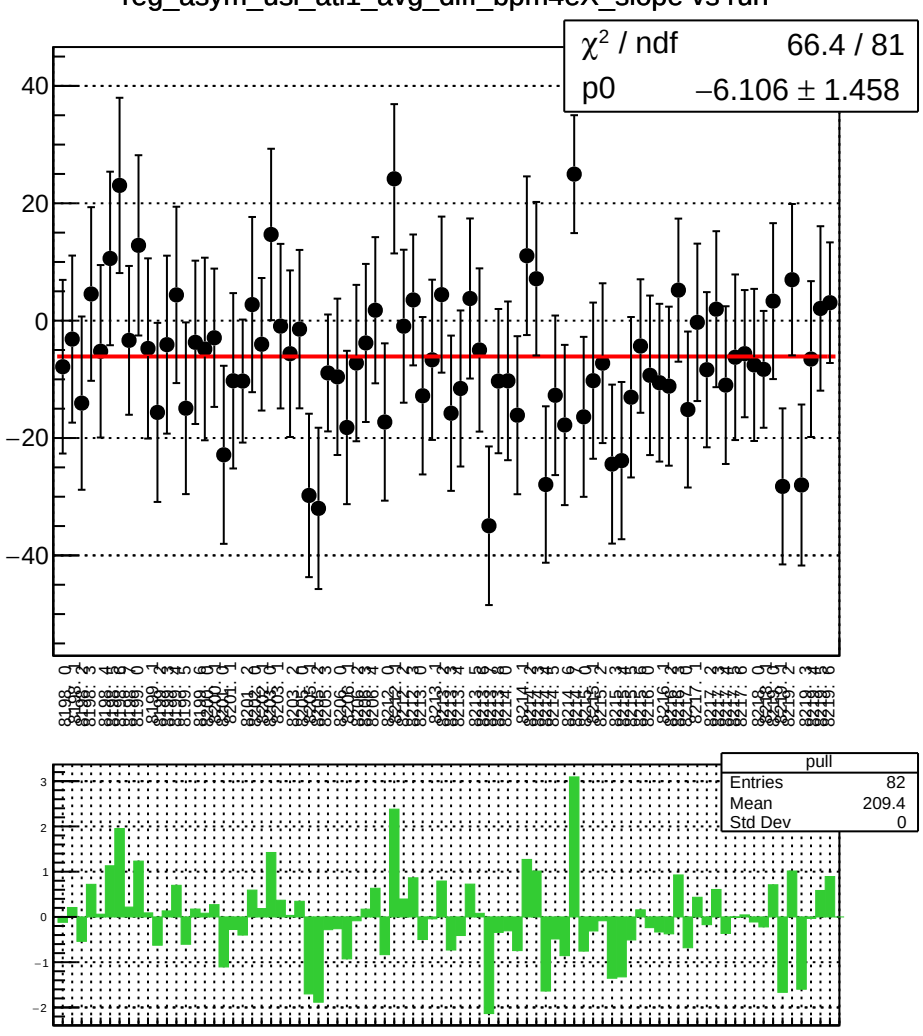

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.7 / 81
p0 57.54 ± 1.694
pull
Entries 82
Mean 701.6
Std Dev 0
pull1D
Entries 82
Mean 0.005623
Std Dev 0.6781

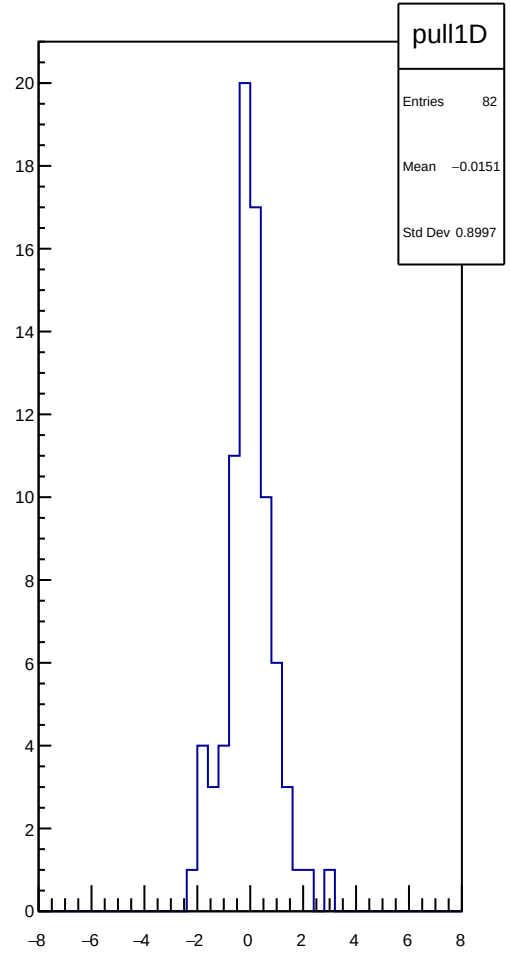

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.79 / 81
p0 −16.05 ± 3.015
pull
Entries 82
Mean 13.65
Std Dev 0
pull1D
Entries 82
Mean −0.0105
Std Dev 0.7052

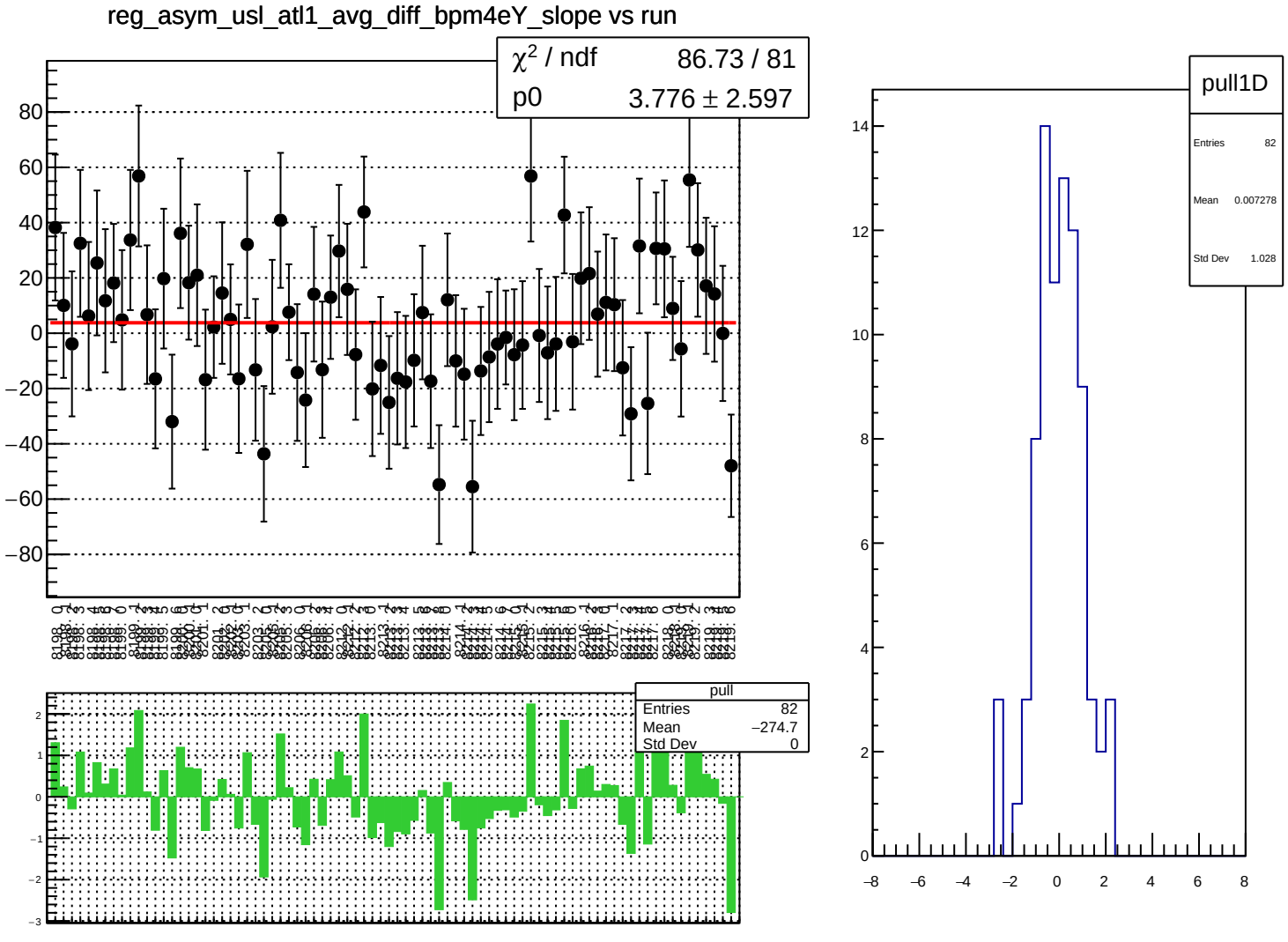

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 48.6 / 81
p0 3.597 ± 0.1369
pull
Entries 82
Mean 449.2
Std Dev 0
pull1D
Entries 82
Mean −0.008141
Std Dev 0.7698

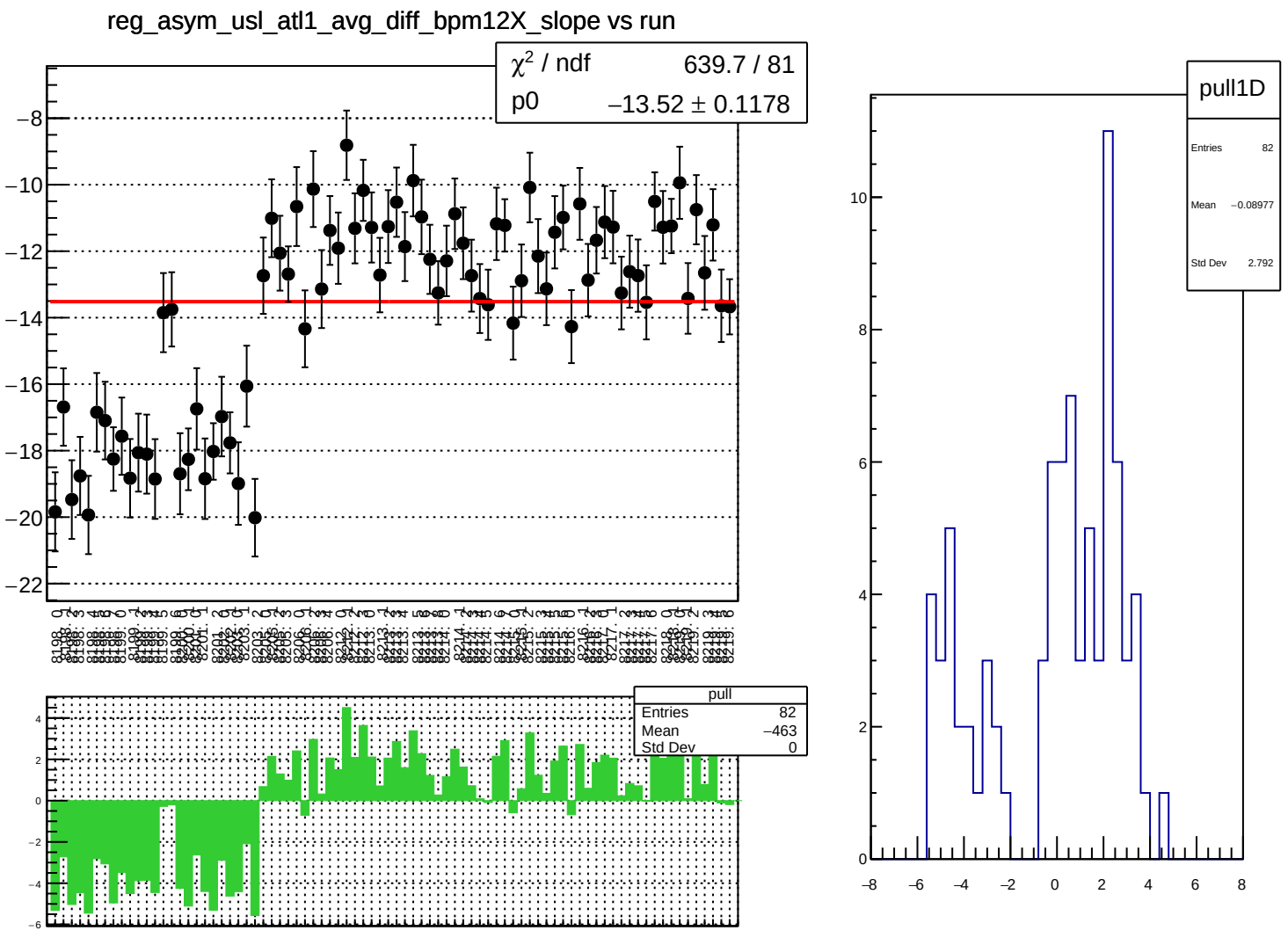

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 65.05 / 81
p0 −7.23 ± 1.454
pull
Entries 82
Mean 226.7
Std Dev 0
pull1D
Entries 82
Mean 0.01465
Std Dev 0.8905

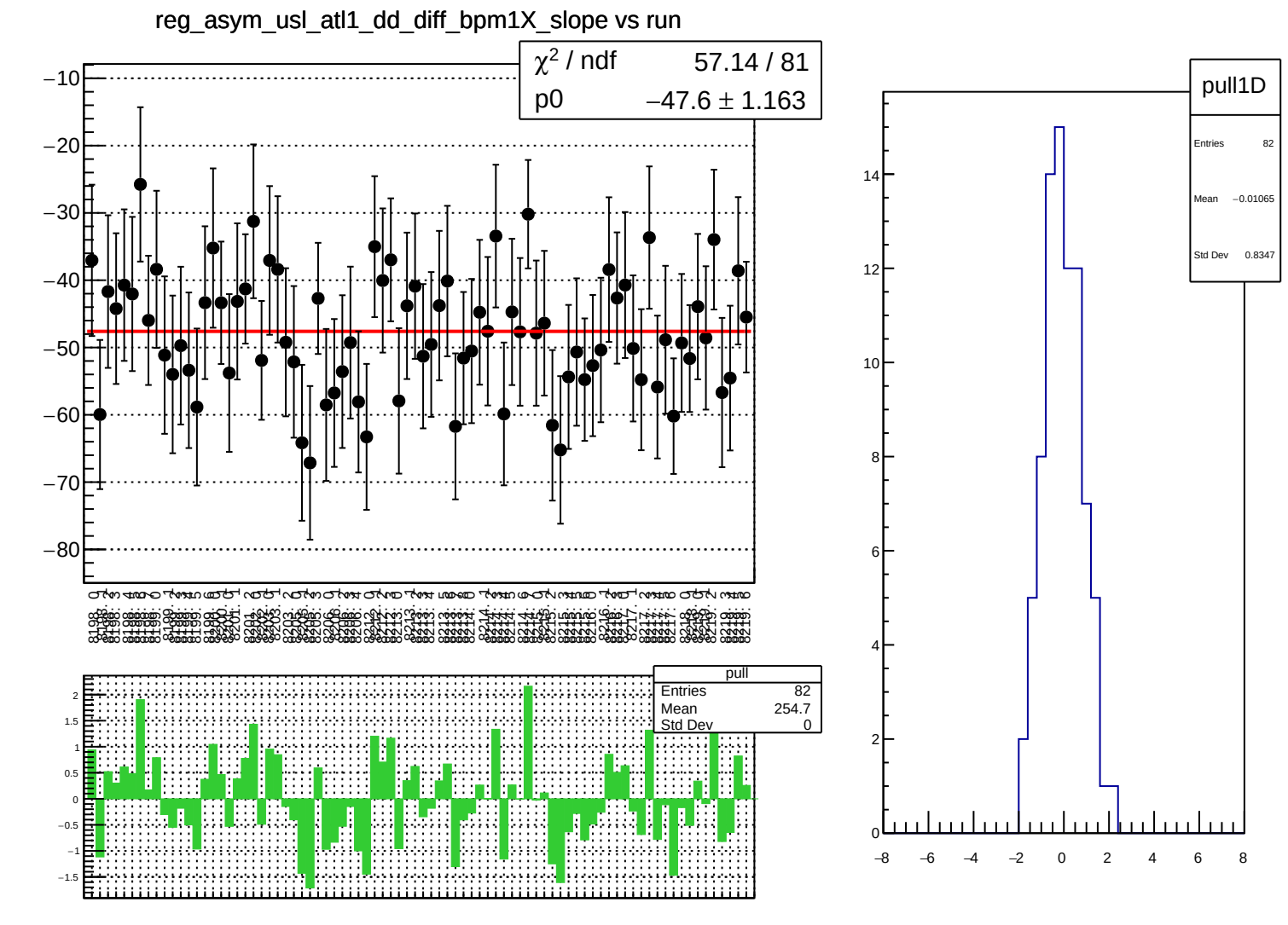

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.17 / 81
p0 2.148 ± 2.415
pull
Entries 82
Mean −184.5
Std Dev 0
pull1D
Entries 82
Mean −0.004625
Std Dev 1.013

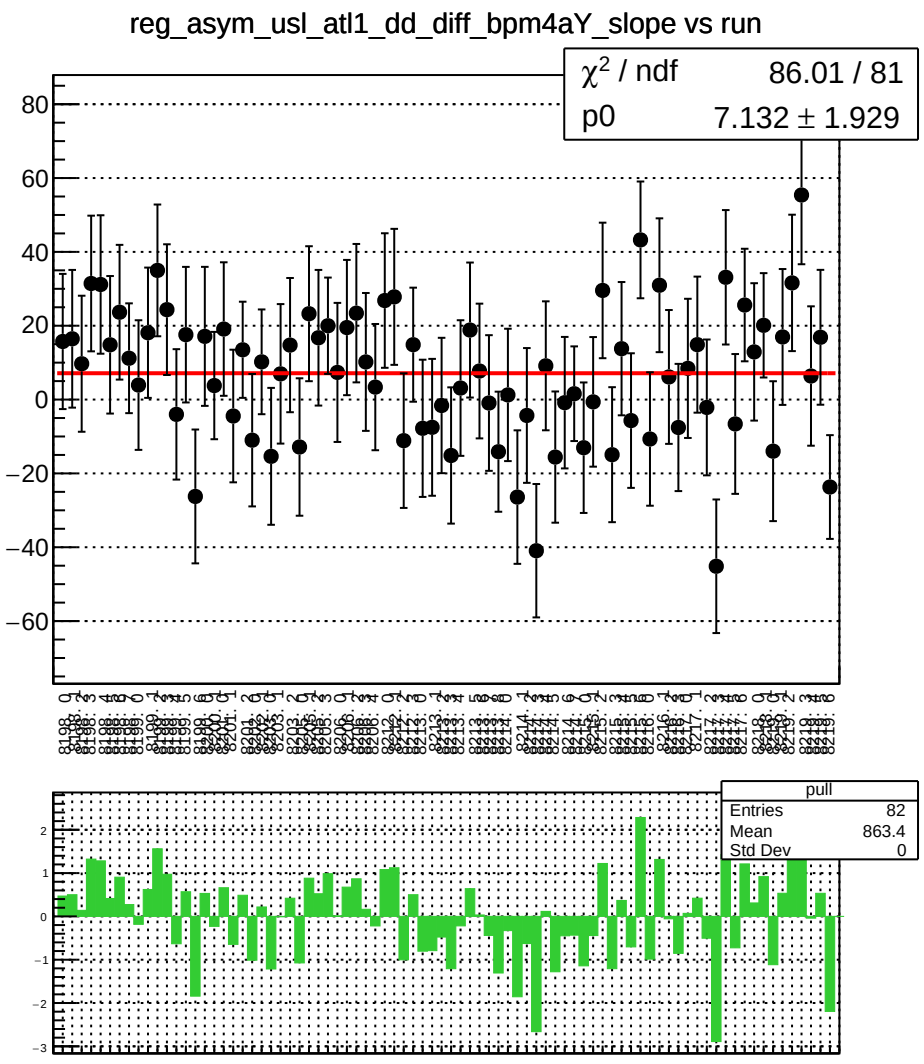

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.4 / 81
p0 −6.106 ± 1.458
pull
Entries 82
Mean 209.4
Std Dev 0

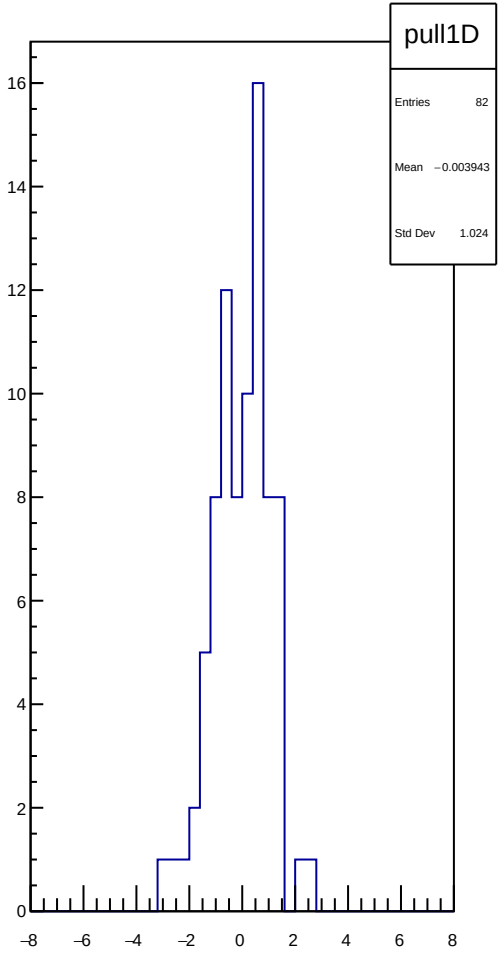

pull1D
Entries 82
Mean −0.0151
Std Dev 0.8997

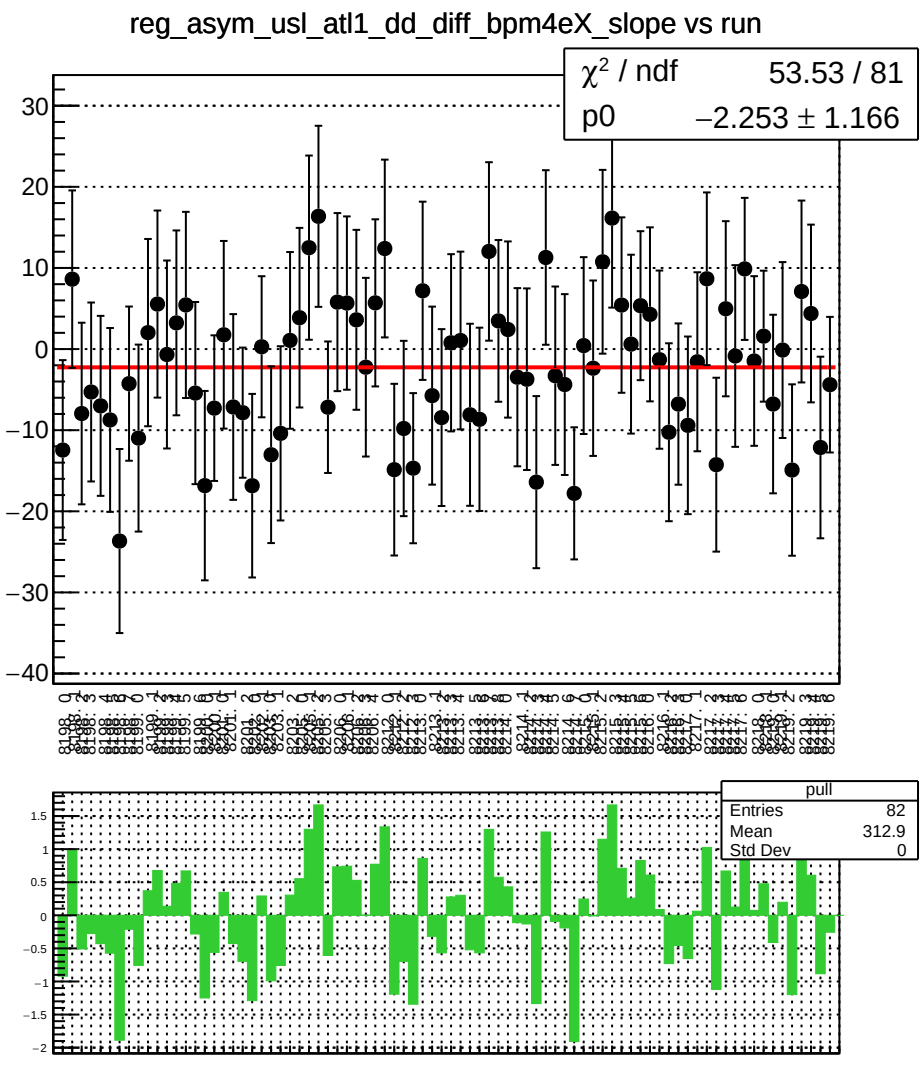

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.73 / 81
p0 3.776 ± 2.597
pull
Entries 82
Mean −274.7
Std Dev 0
pull1D
Entries 82
Mean 0.007278
Std Dev 1.028

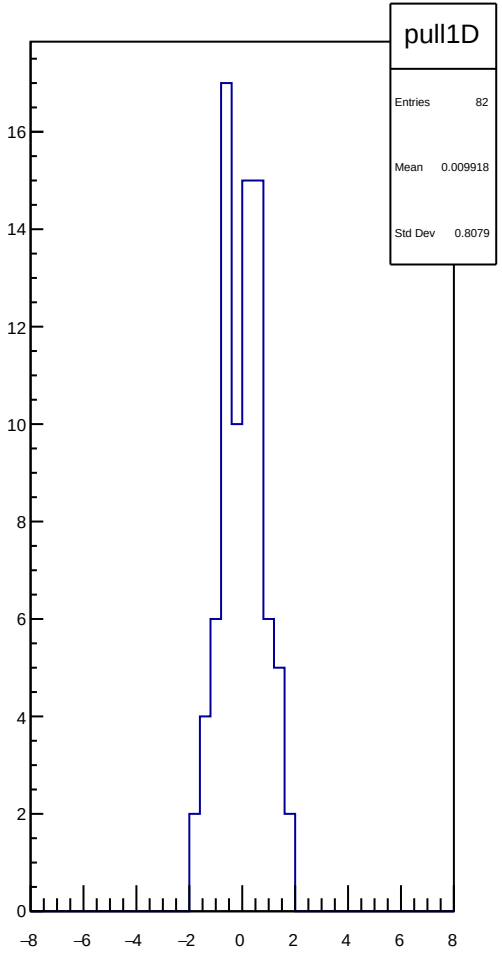

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 639.7 / 81
p0 −13.52 ± 0.1178
pull
Entries 82
Mean −463
Std Dev 0
pull1D
Entries 82
Mean −0.08977
Std Dev 2.792

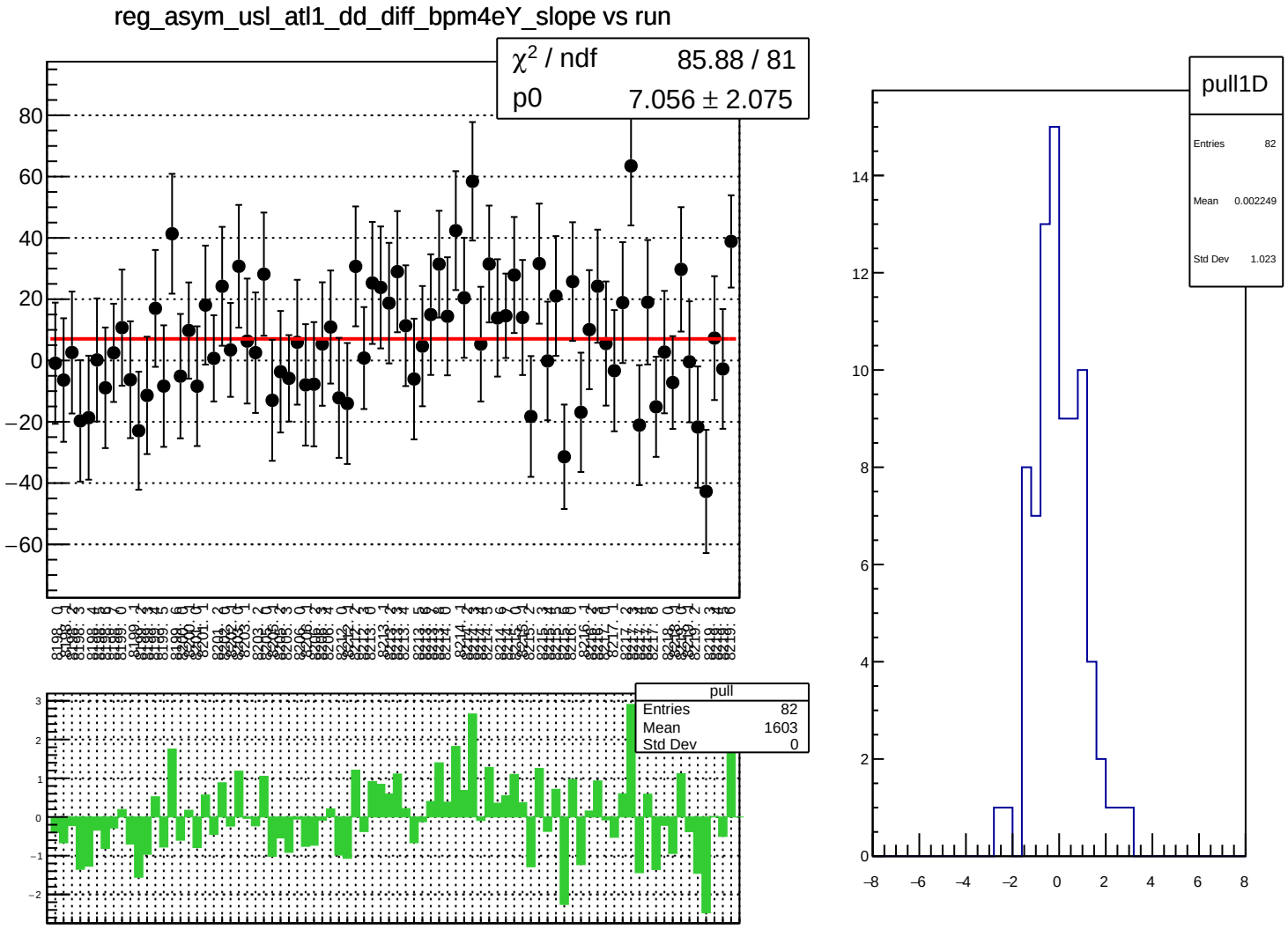

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 57.14 / 81
p0 −47.6 ± 1.163
pull
Entries 82
Mean 254.7
Std Dev 0
pull1D
Entries 82
Mean −0.01065
Std Dev 0.8347

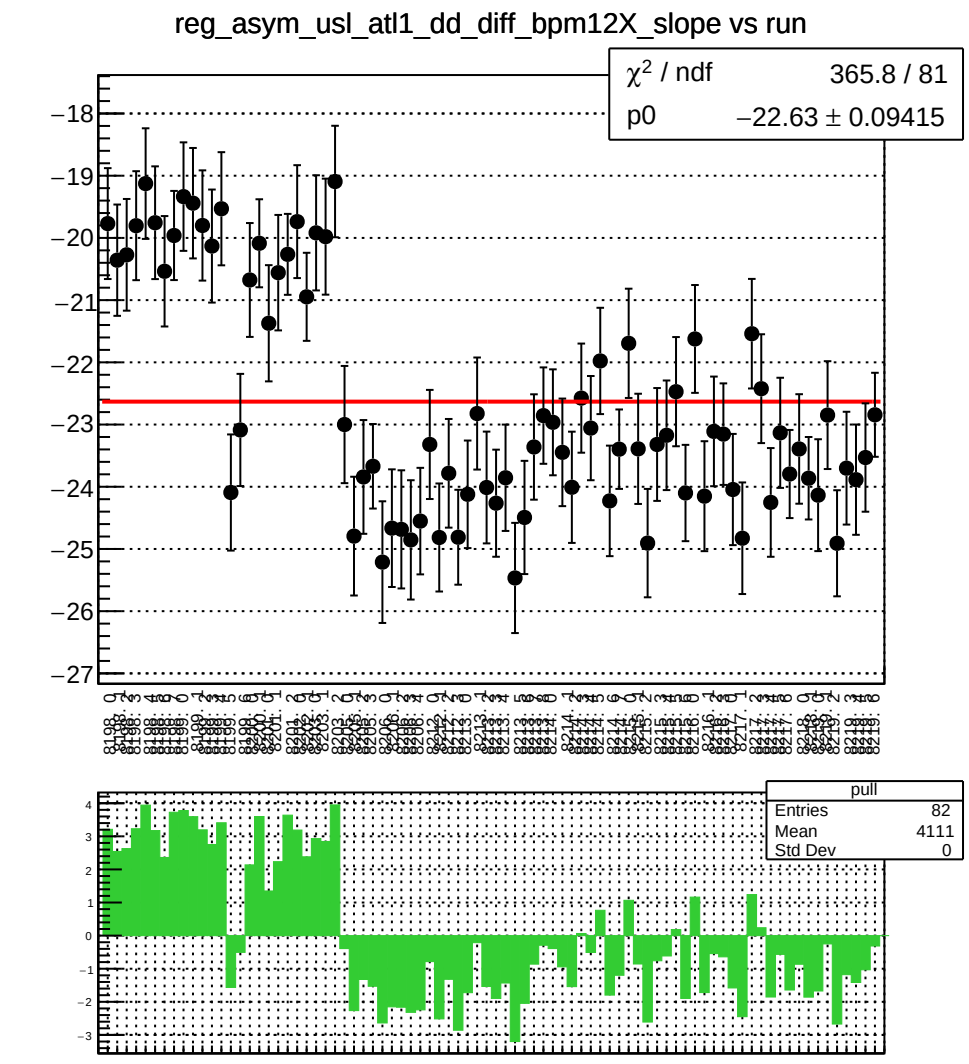

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.01 / 81
p0 7.132 ± 1.929
pull
Entries 82
Mean 863.4
Std Dev 0

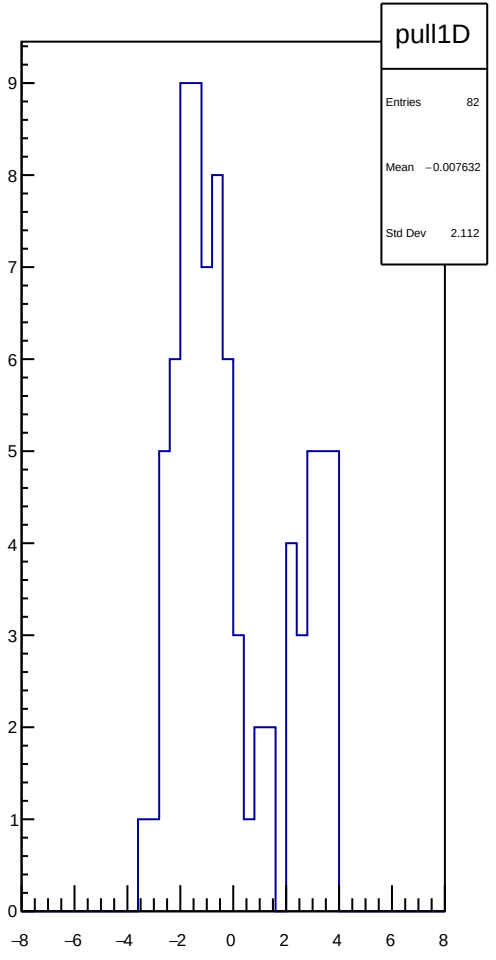

pull1D
Entries 82
Mean −0.003943
Std Dev 1.024

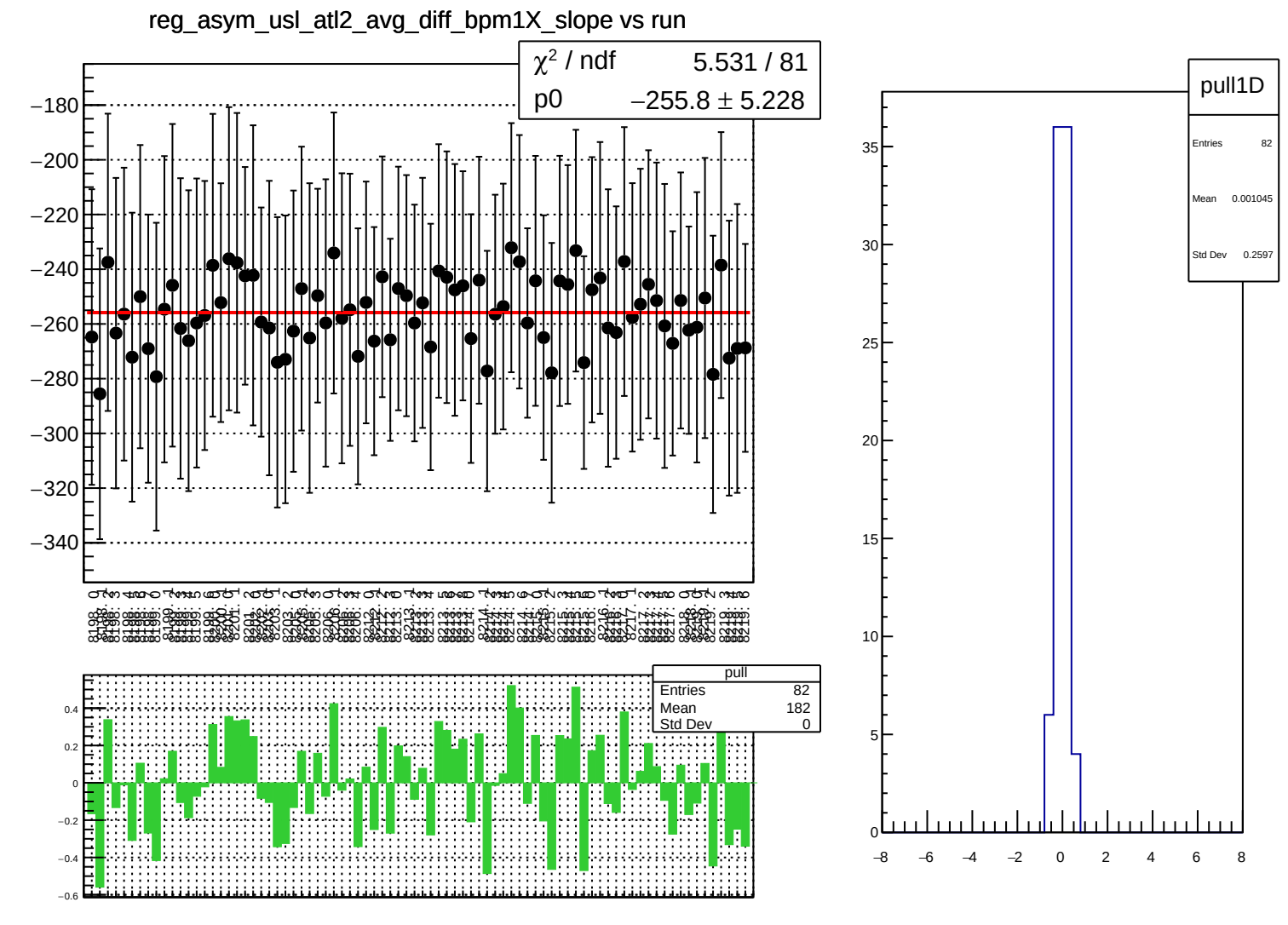

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.53 / 81
p0 −2.253 ± 1.166
pull
Entries 82
Mean 312.9
Std Dev 0

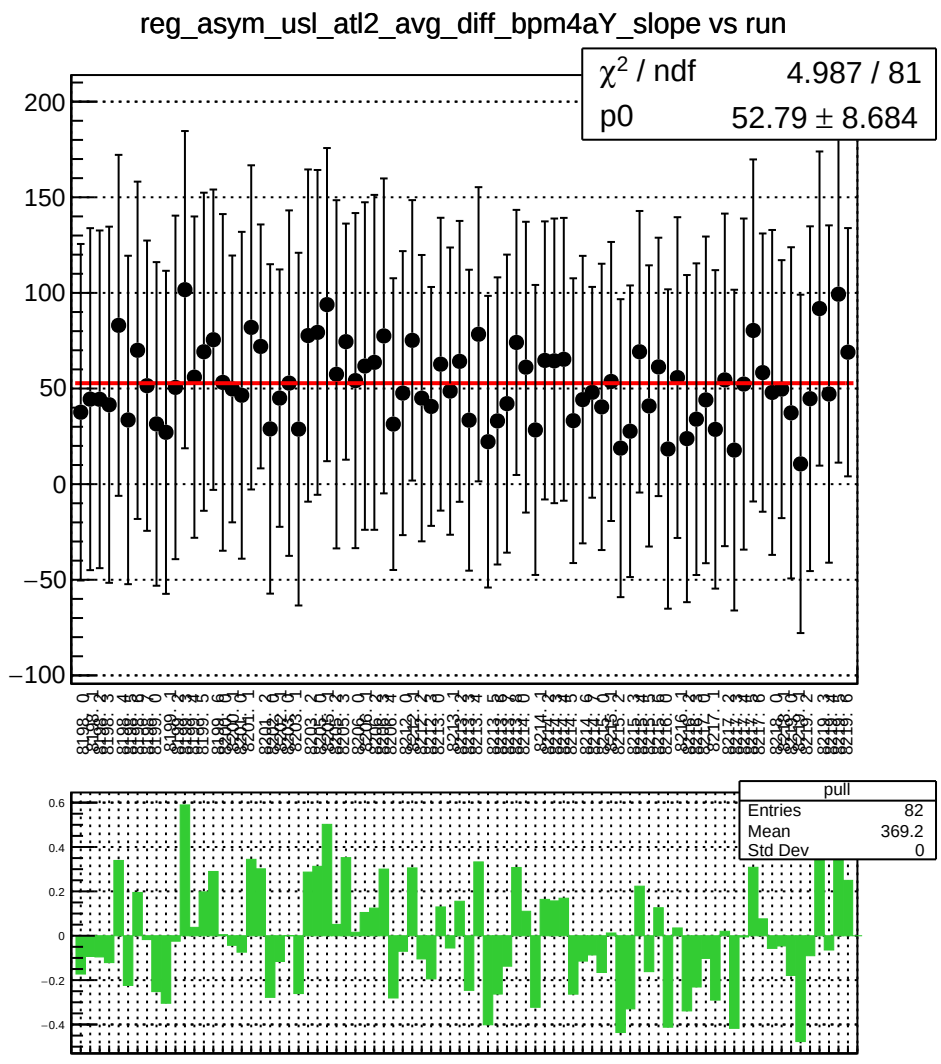

pull1D
Entries 82
Mean 0.009918
Std Dev 0.8079

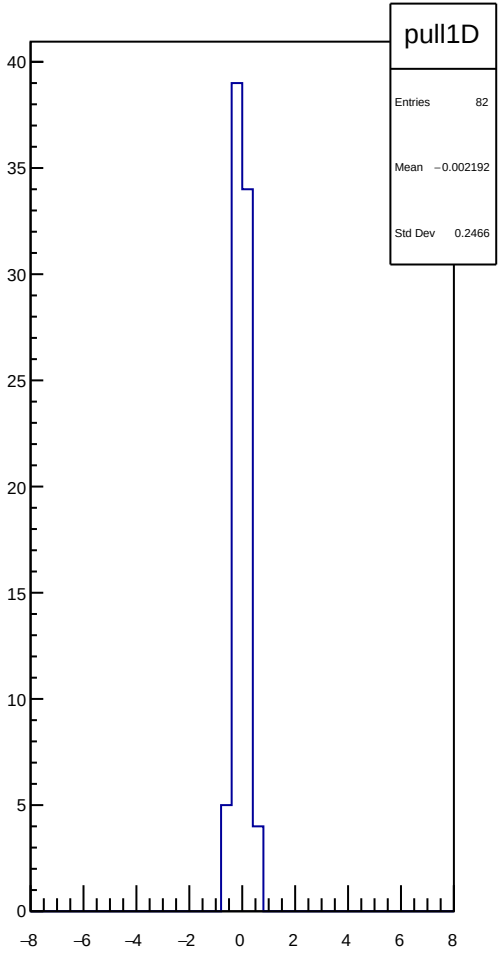

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.88 / 81
p0 7.056 ± 2.075
pull
Entries 82
Mean 1603
Std Dev 0
pull1D
Entries 82
Mean 0.002249
Std Dev 1.023

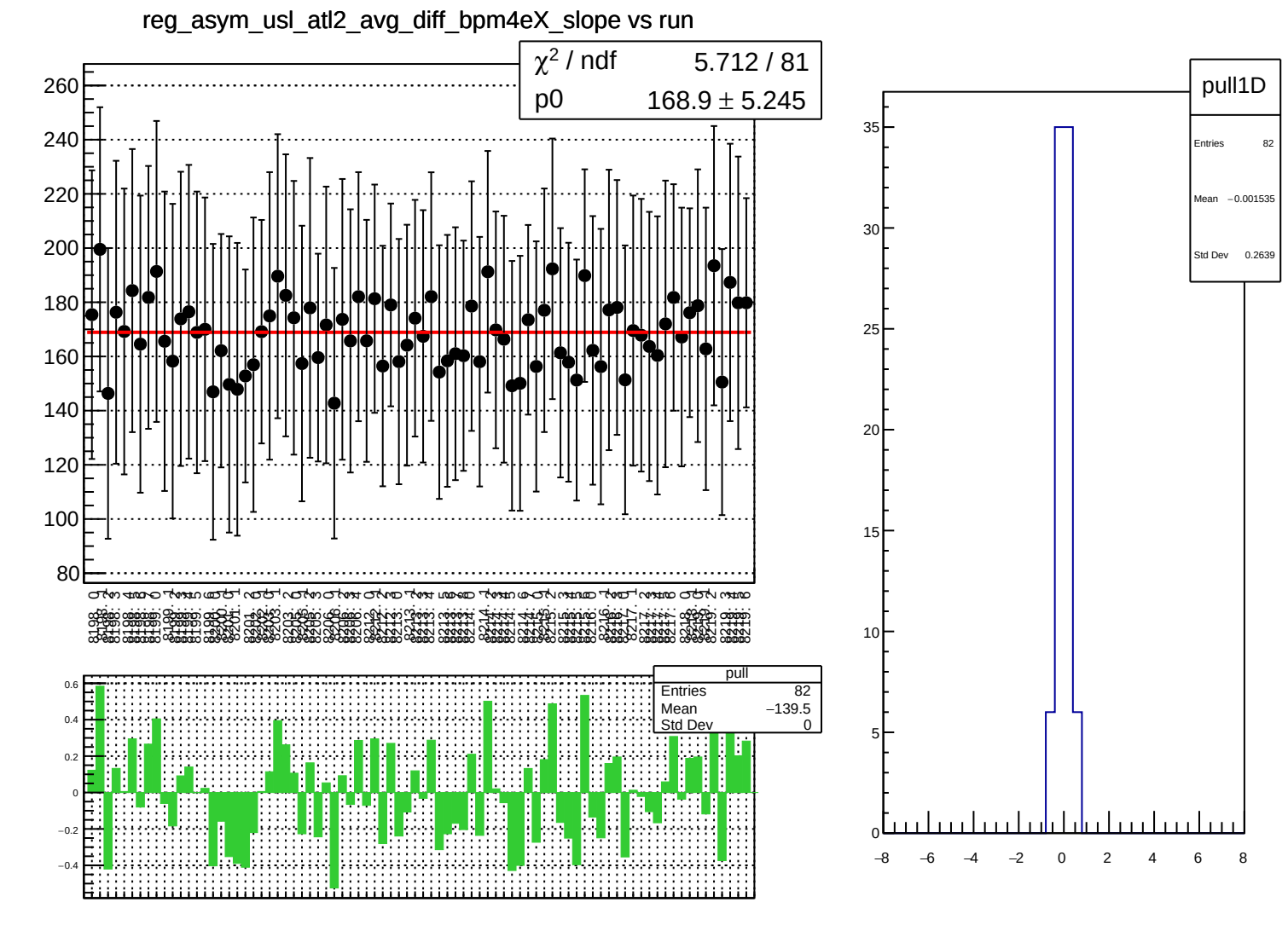

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 365.8 / 81
p0 −22.63 ± 0.09415
pull
Entries 82
Mean 4111
Std Dev 0

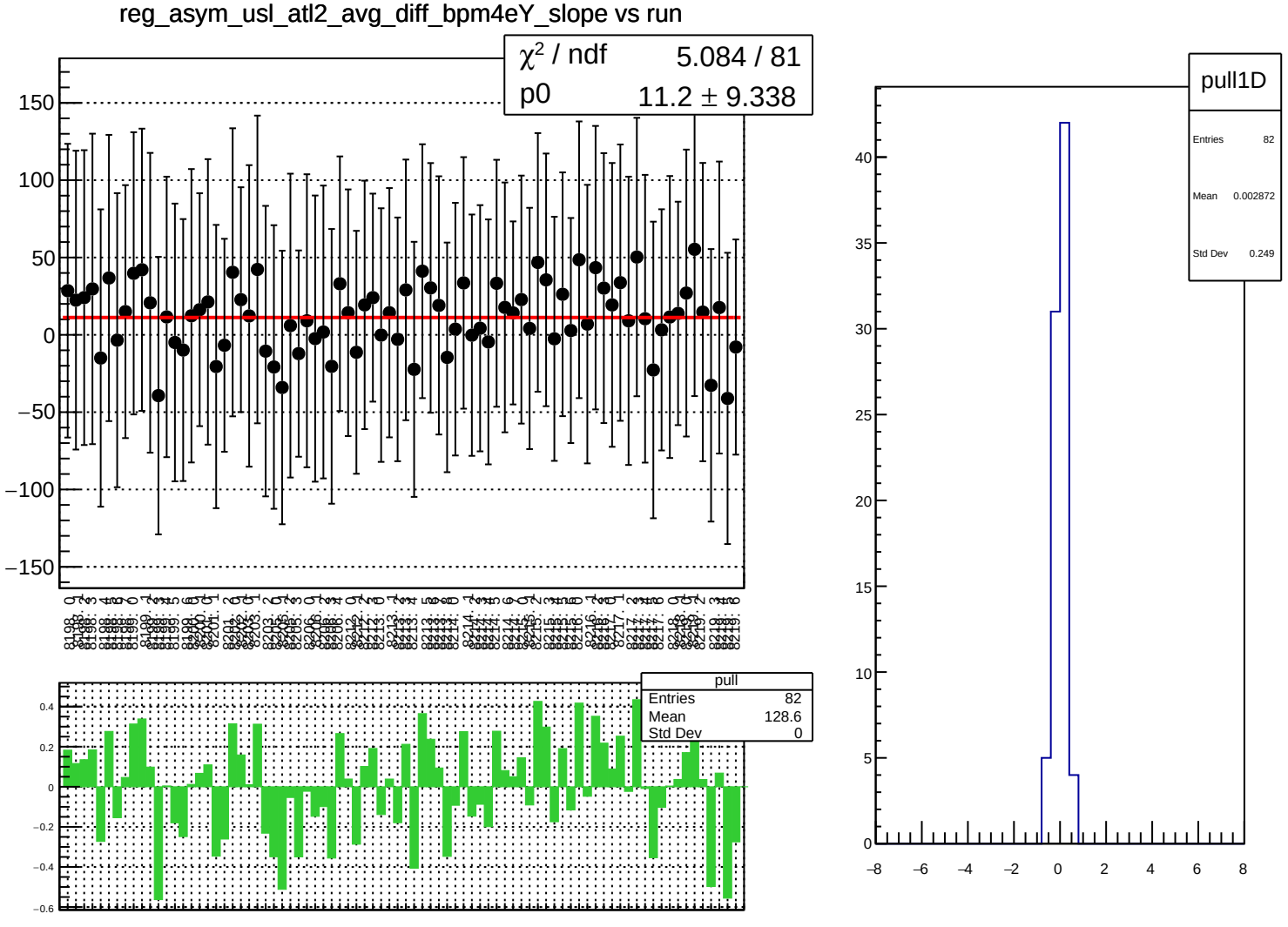

pull1D
Entries 82
Mean −0.007632
Std Dev 2.112

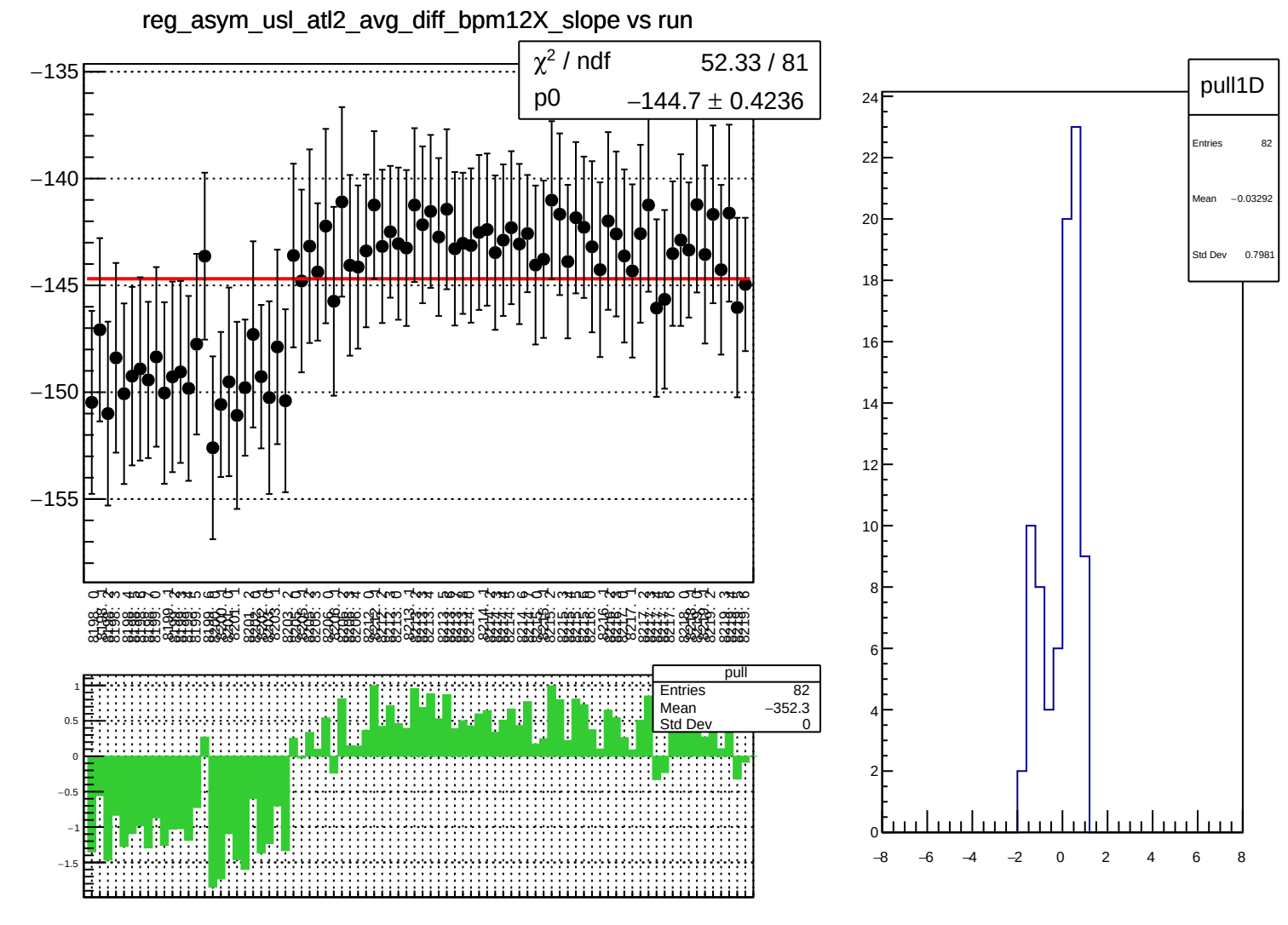

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 5.531 / 81
p0 −255.8 ± 5.228
pull
Entries 82
Mean 182
Std Dev 0
pull1D
Entries 82
Mean 0.001045
Std Dev 0.2597

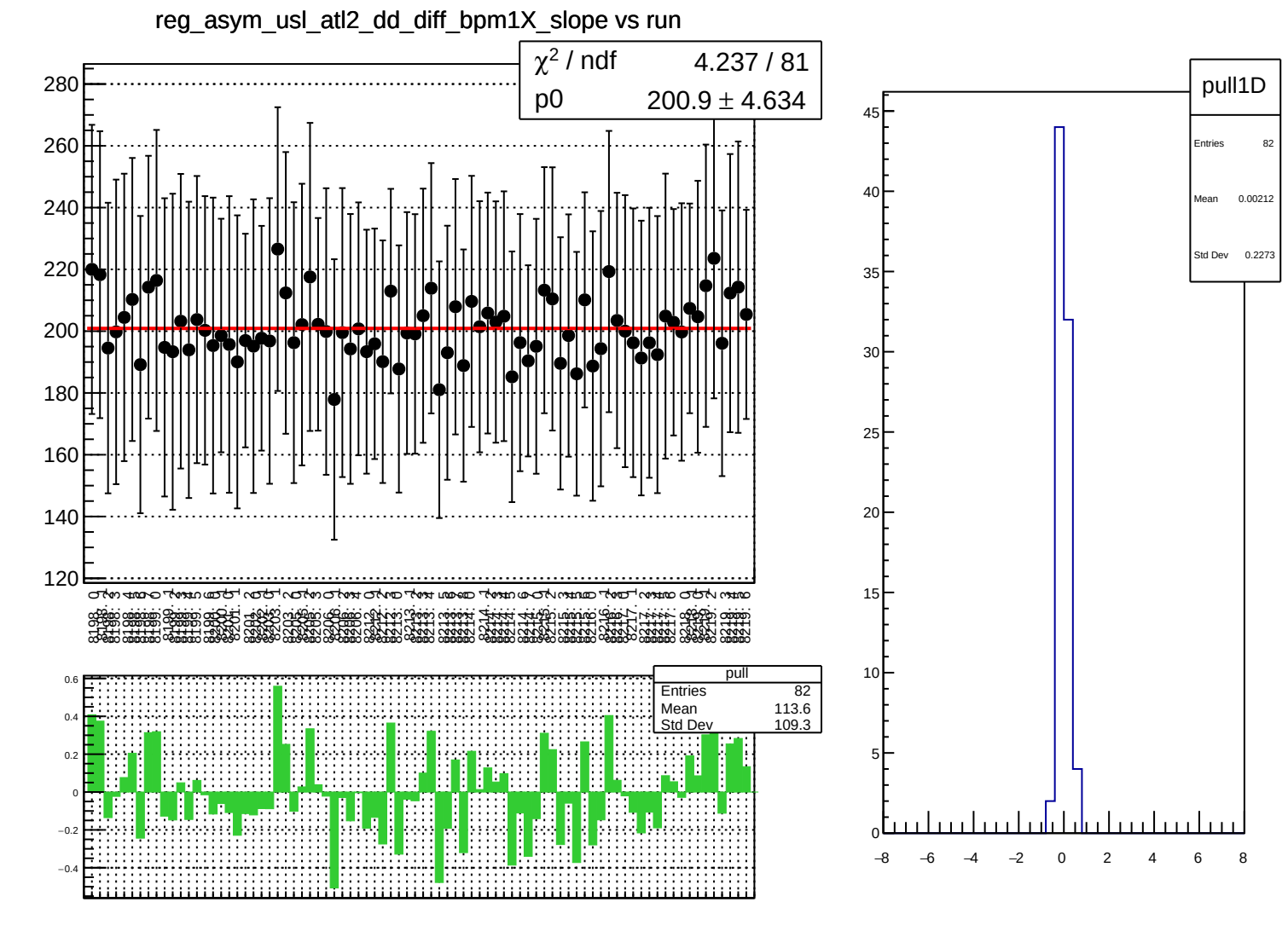

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.987 / 81
p0 52.79 ± 8.684
pull
Entries 82
Mean 369.2
Std Dev 0

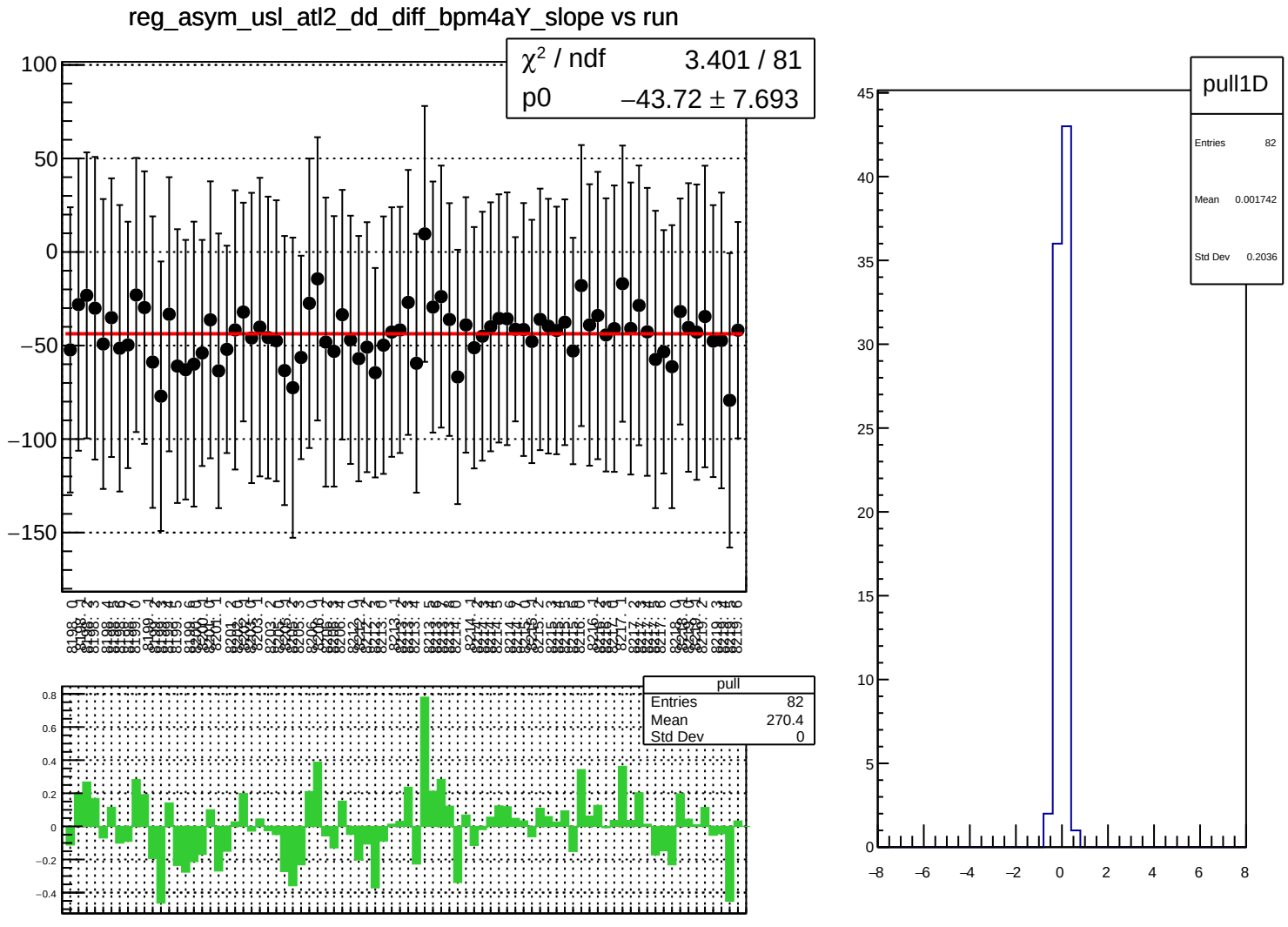

pull1D
Entries 82
Mean −0.002192
Std Dev 0.2466

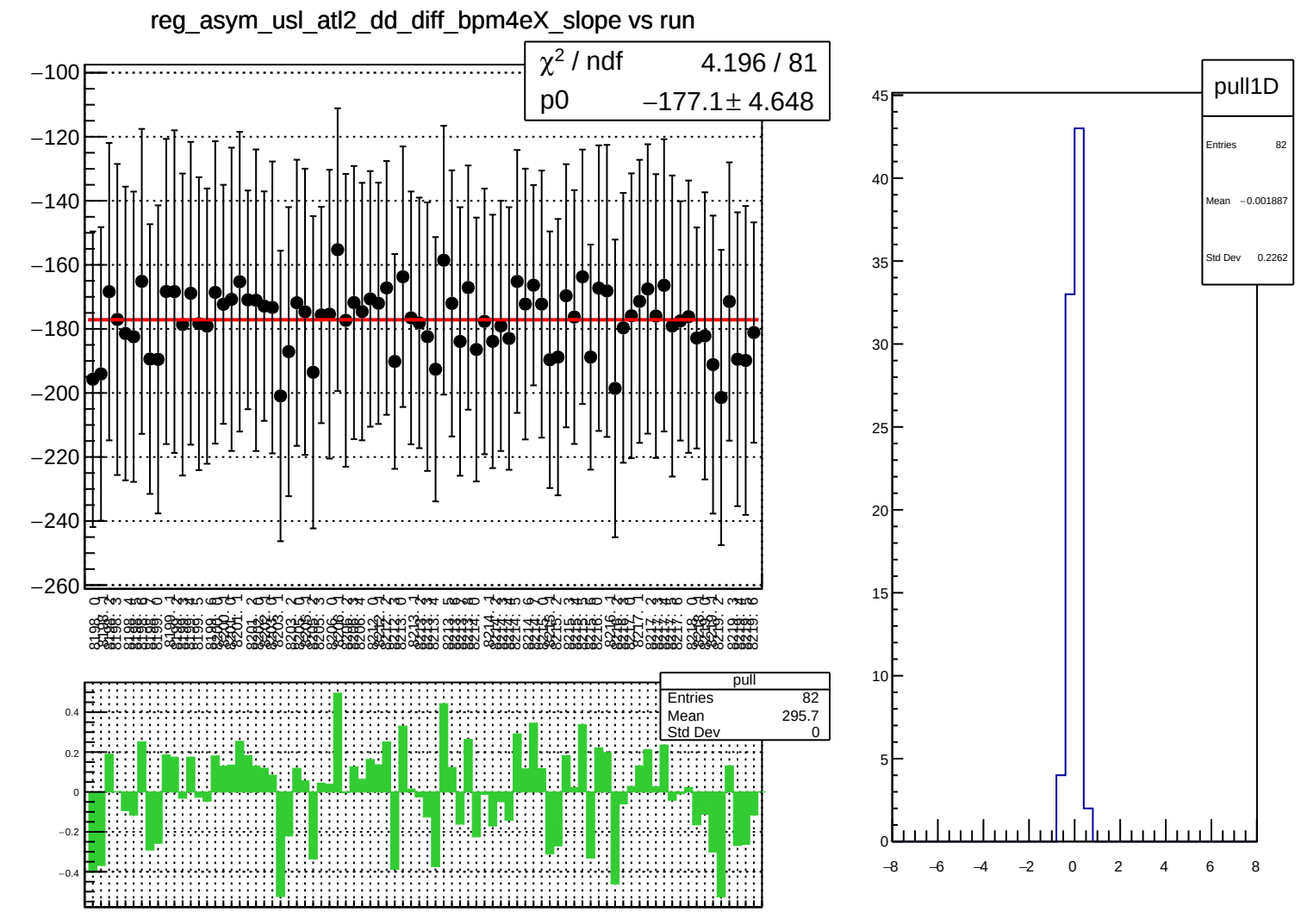

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.712 / 81
p0 168.9 ± 5.245
pull
Entries 82
Mean −139.5
Std Dev 0
pull1D
Entries 82
Mean −0.001535
Std Dev 0.2639

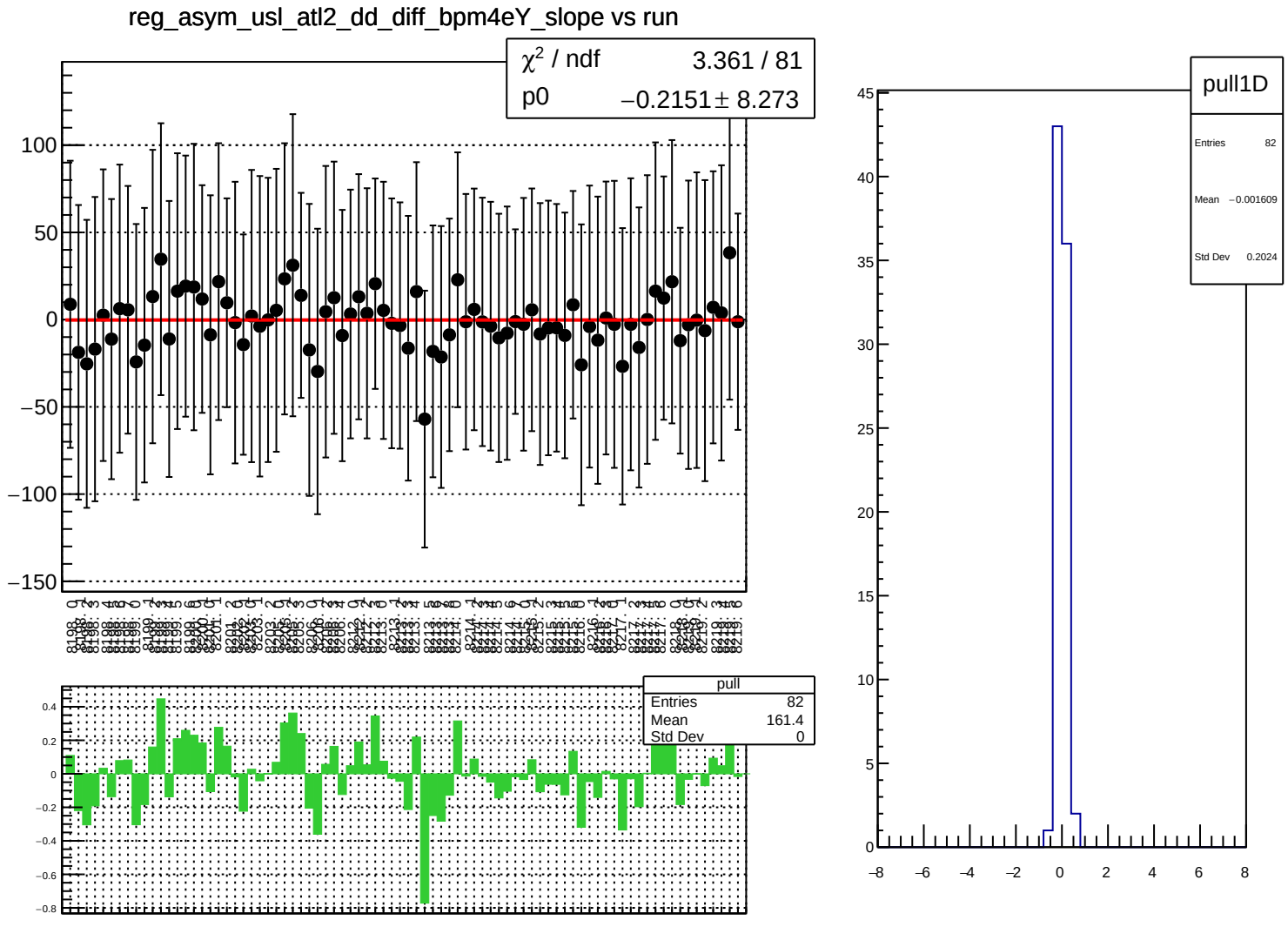

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.084 / 81
p0 11.2 ± 9.338
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 128.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean 0.002872
Std Dev 0.249
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

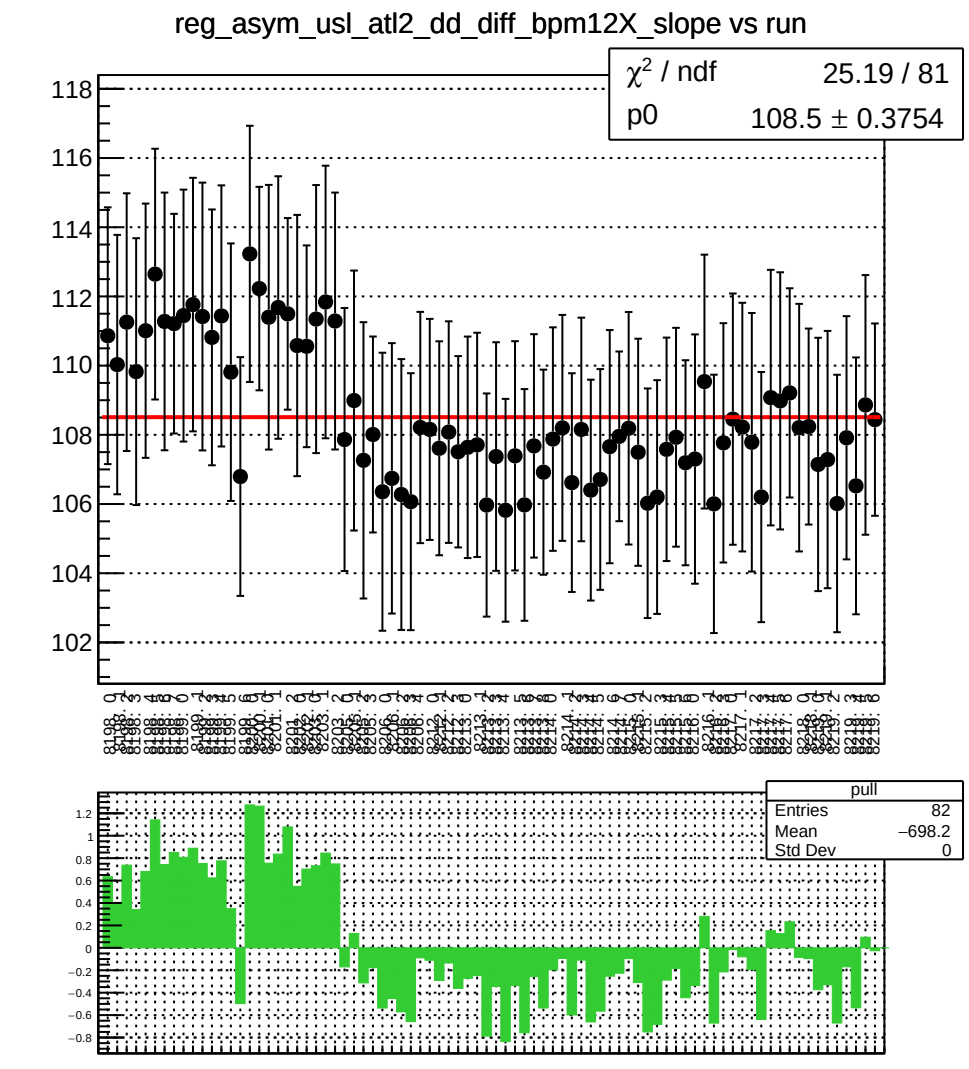

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 52.33 / 81
p0 −144.7 ± 0.4236
−135
−140
−145
−150
−155
pull
Entries 82
Mean −352.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.03292
Std Dev 0.7981
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

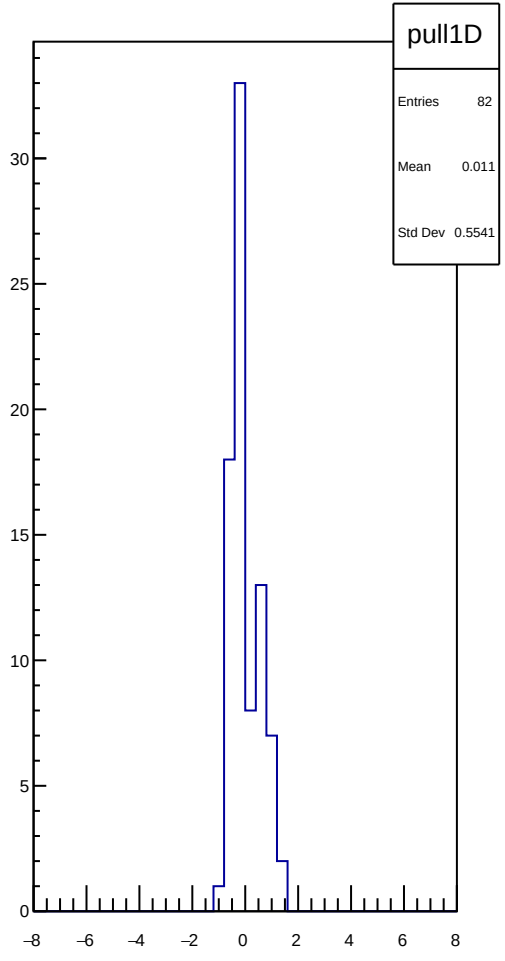

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 4.237 / 81
p0 200.9 ± 4.634
pull
Entries 82
Mean 113.6
Std Dev 109.3
pull1D
Entries 82
Mean 0.00212
Std Dev 0.2273

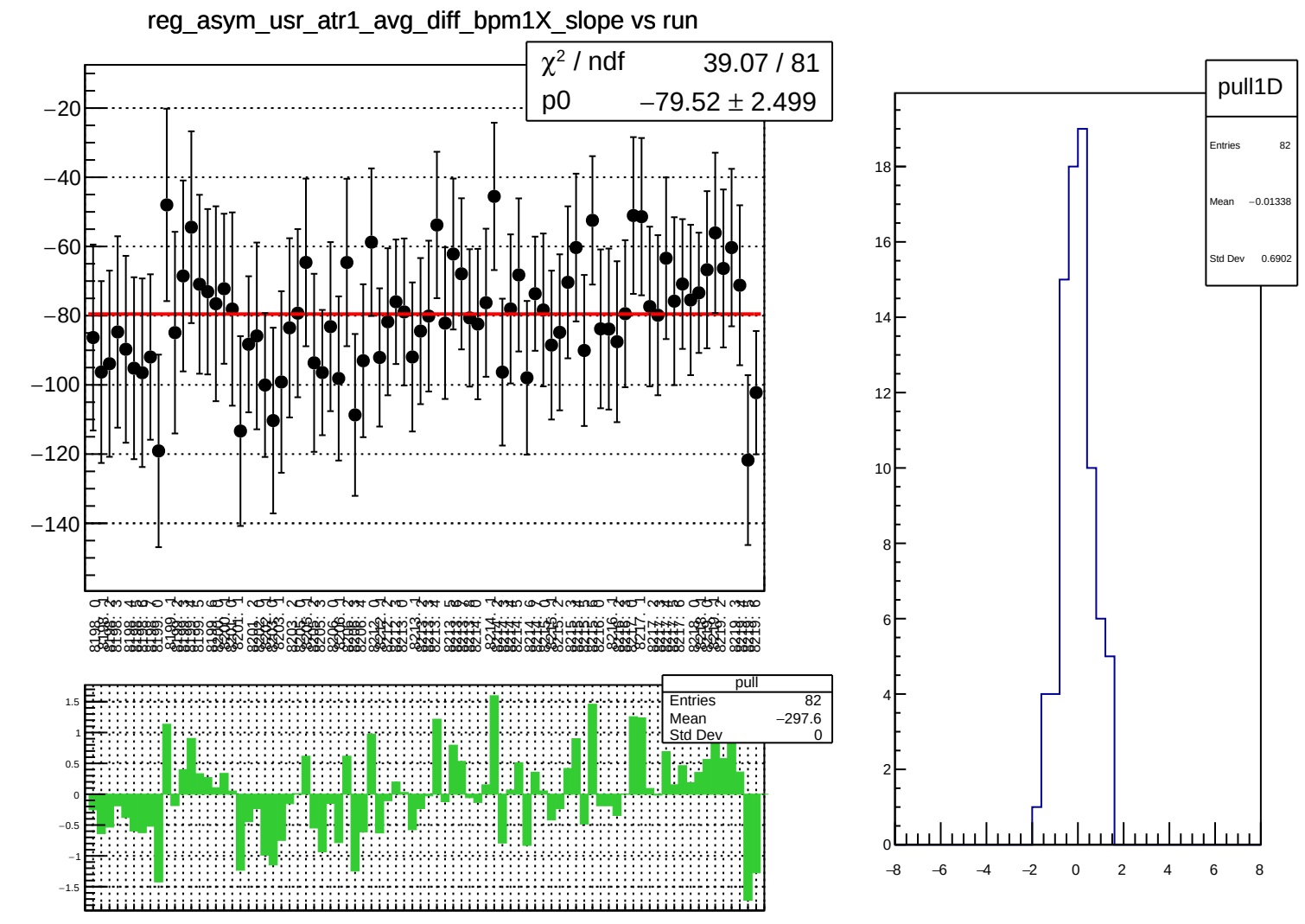

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.401 / 81
p0 −43.72 ± 7.693
pull
Entries 82
Mean 270.4
Std Dev 0
pull1D
Entries 82
Mean 0.001742
Std Dev 0.2036

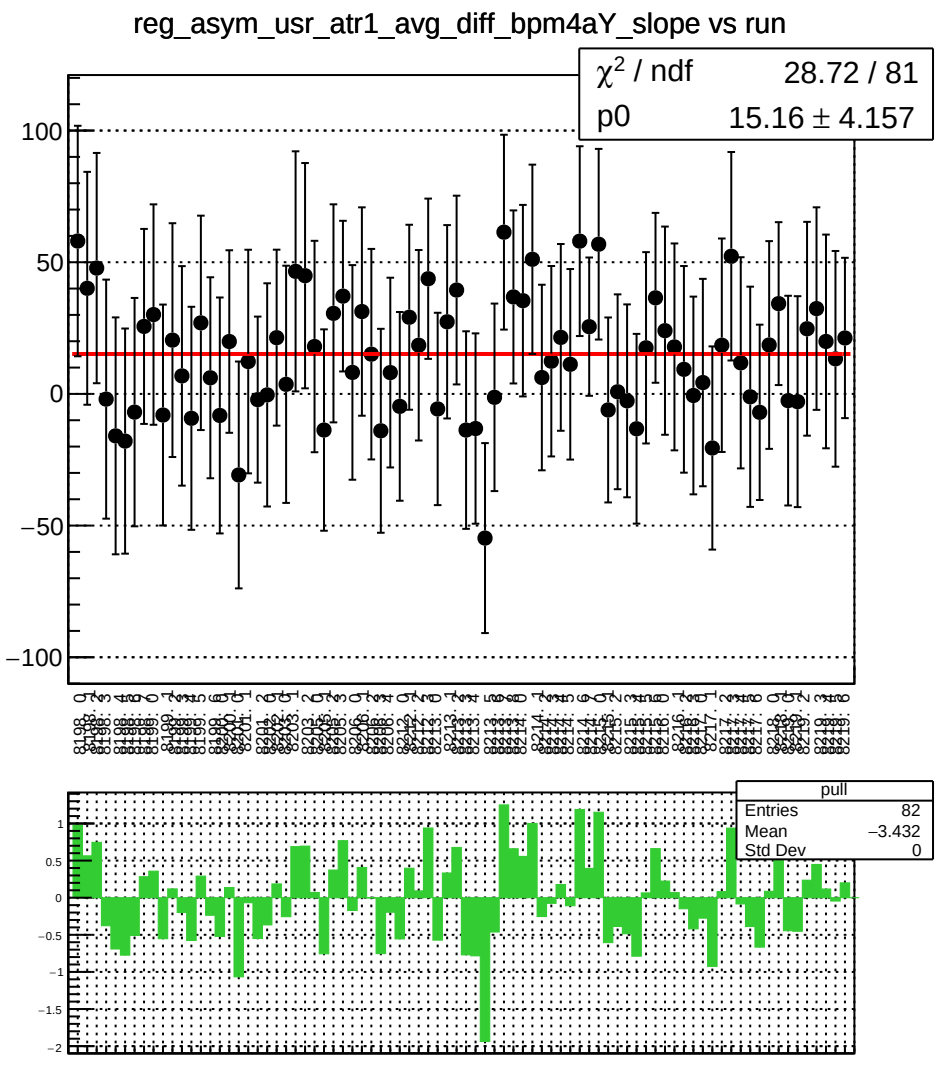

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.196 / 81
p0 −177.1± 4.648
pull
Entries 82
Mean 295.7
Std Dev 0
pull1D
Entries 82
Mean −0.001887
Std Dev 0.2262

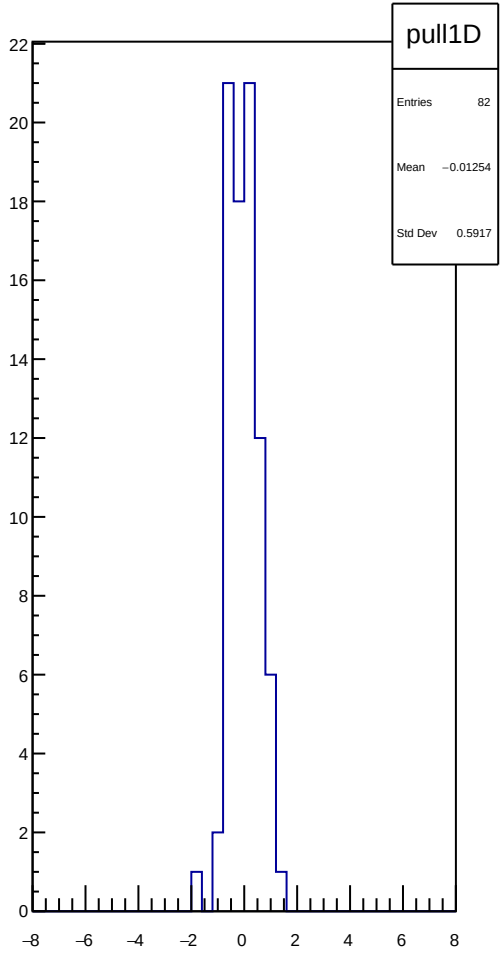

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.361 / 81
p0 −0.2151 ± 8.273
pull
Entries 82
Mean 161.4
Std Dev 0
pull1D
Entries 82
Mean −0.001609
Std Dev 0.2024

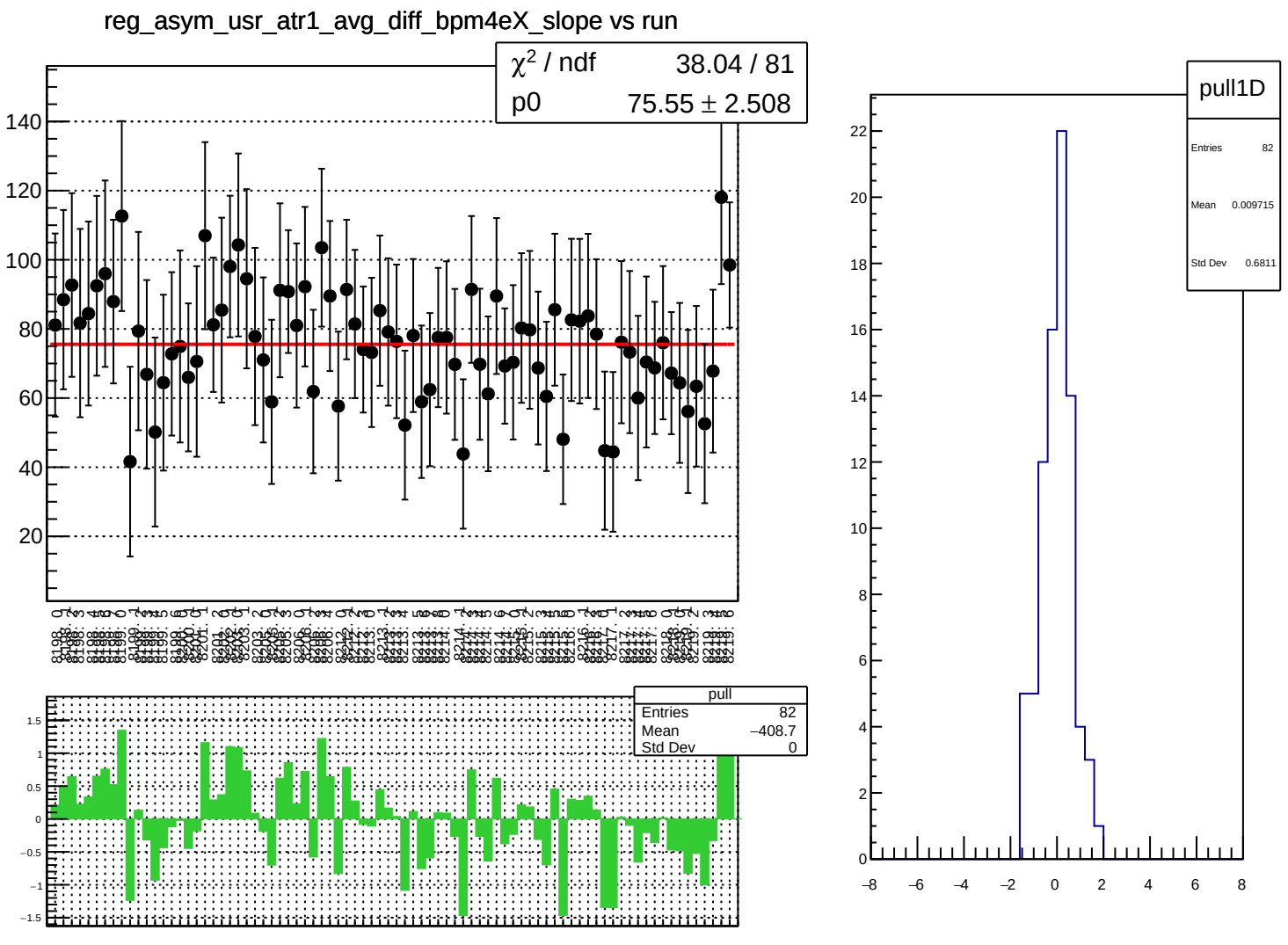

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 25.19 / 81
p0 108.5 ± 0.3754
pull
Entries 82
Mean −698.2
Std Dev 0

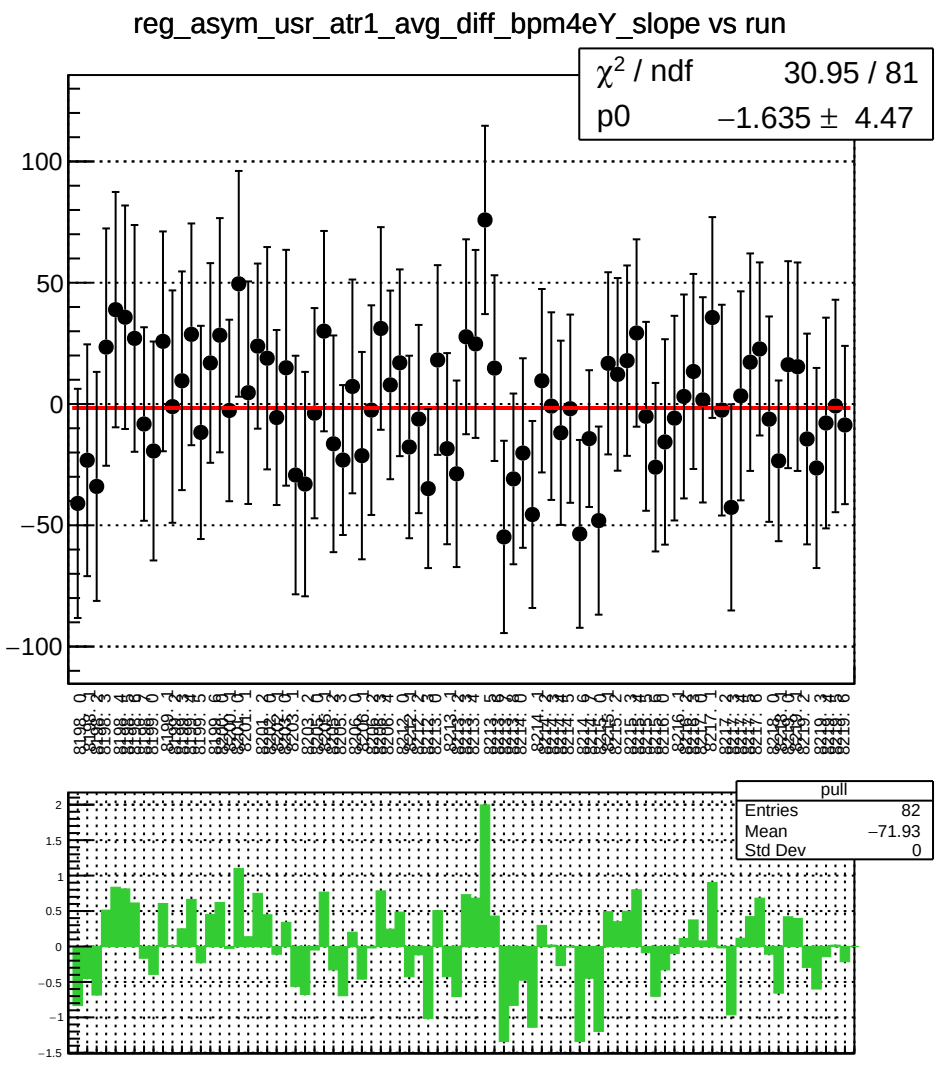

pull1D
Entries 82
Mean 0.011
Std Dev 0.5541

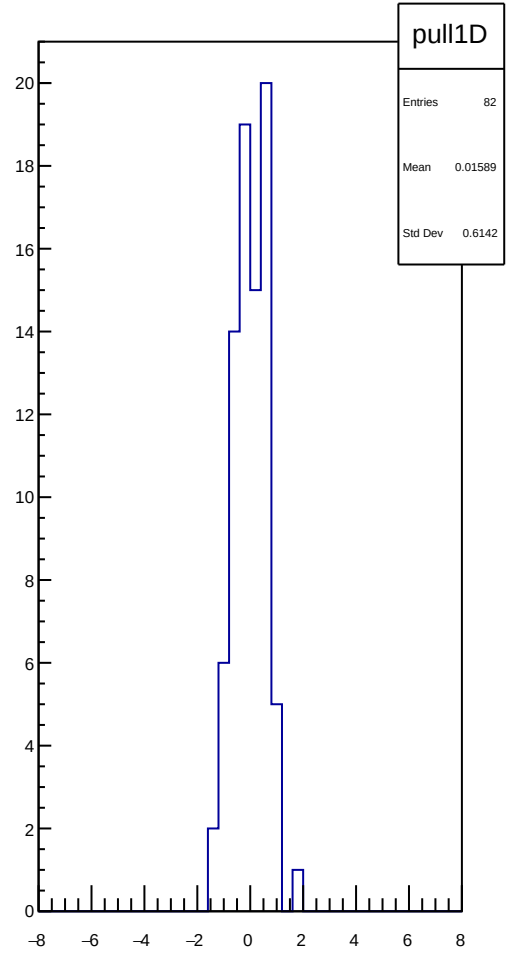

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 39.07 / 81
p0 −79.52 ± 2.499
pull
Entries 82
Mean −297.6
Std Dev 0
pull1D
Entries 82
Mean −0.01338
Std Dev 0.6902

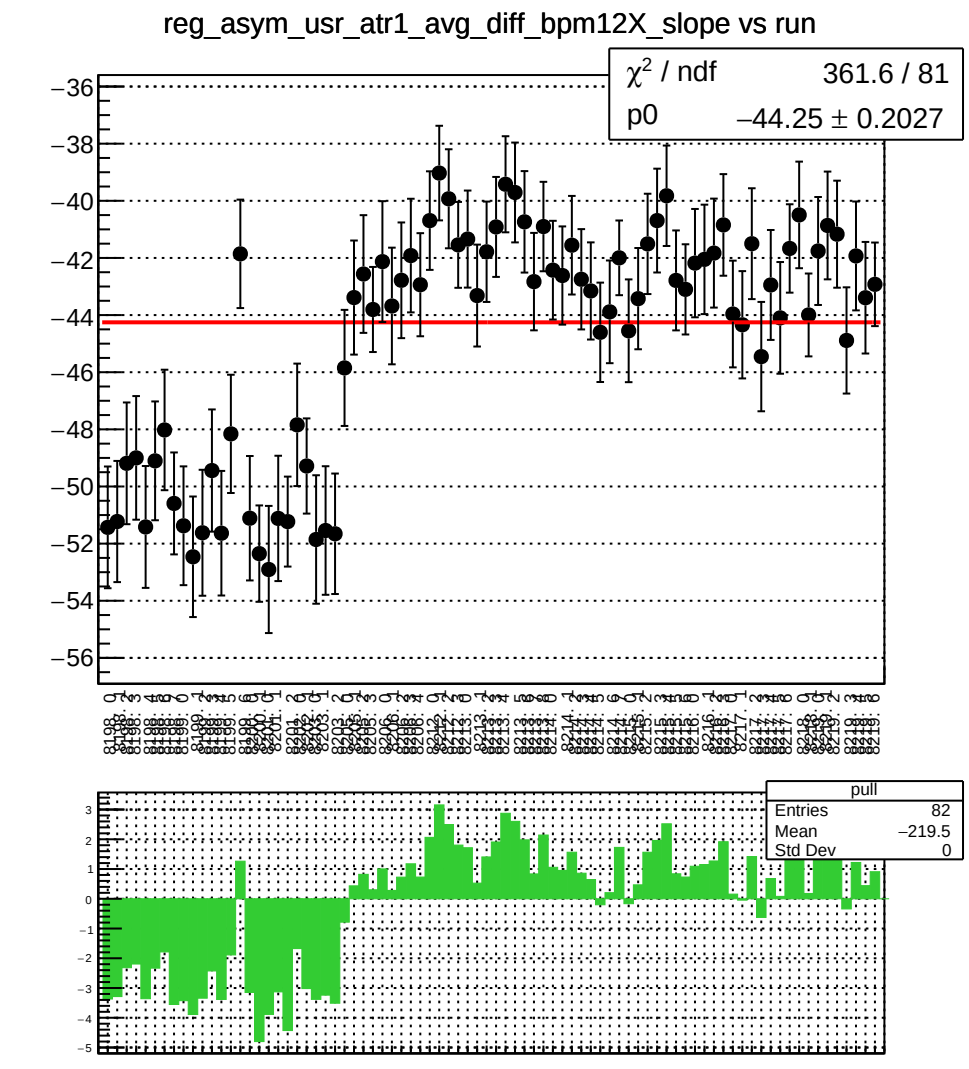

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.72 / 81
p0 15.16 ± 4.157
100
50
0
−50
−100
pull
Entries 82
Mean −3.432
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

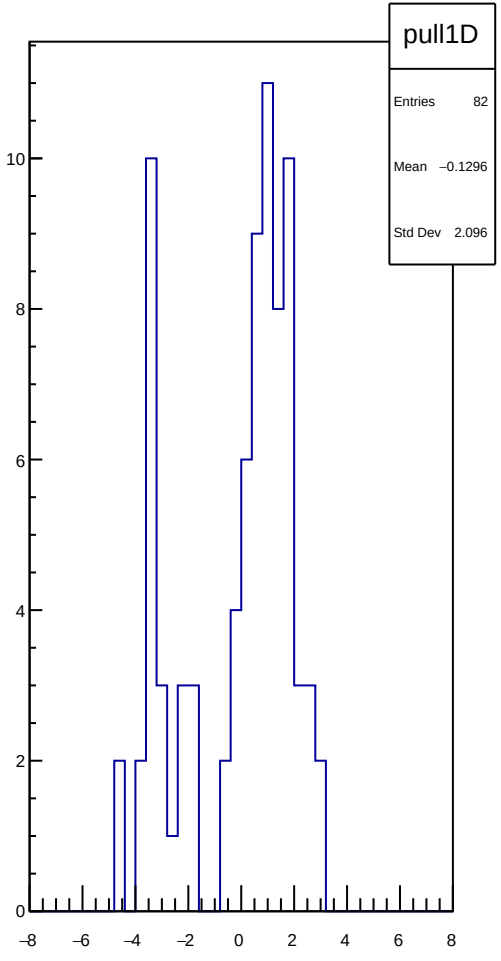

pull1D
Entries 82
Mean −0.01254
Std Dev 0.5917
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

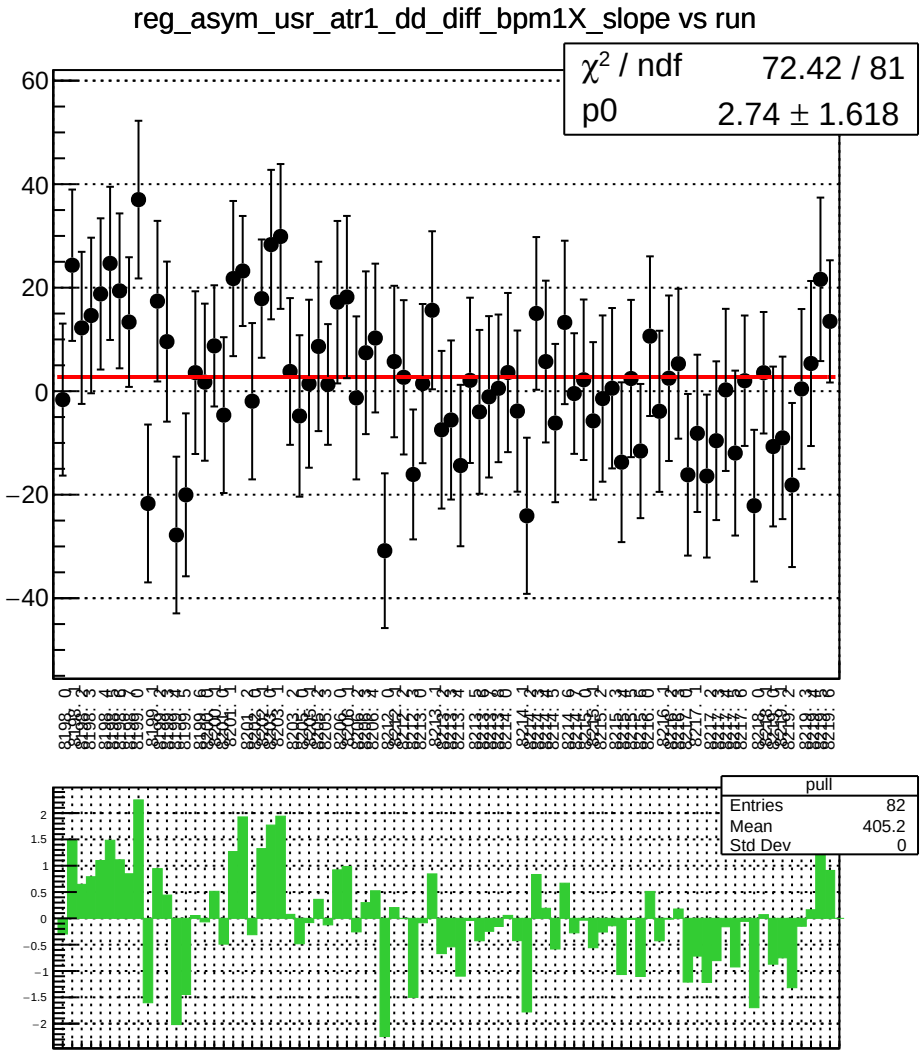

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.04 / 81
p0 75.55 ± 2.508
pull
Entries 82
Mean −408.7
Std Dev 0
pull1D
Entries 82
Mean 0.009715
Std Dev 0.6811

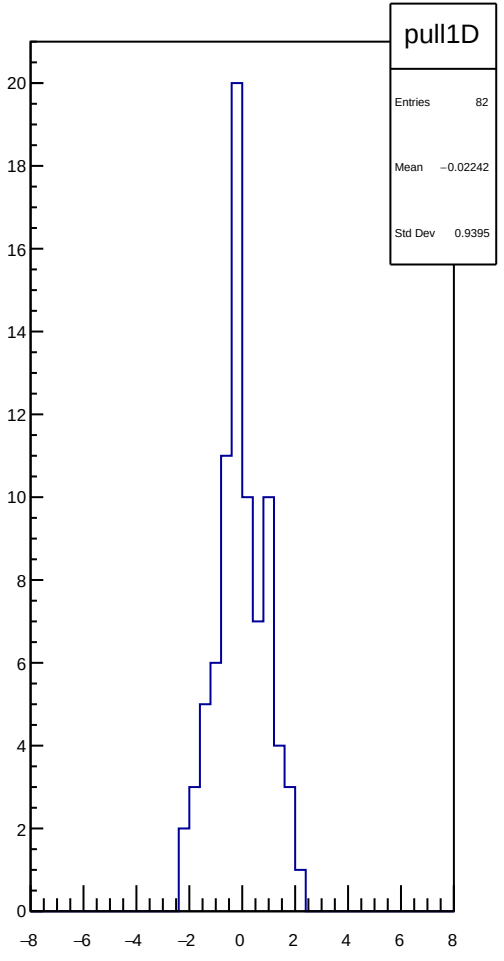

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.95 / 81
p0 −1.635 ± 4.47
100
50
0
−50
−100
pull
Entries 82
Mean −71.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

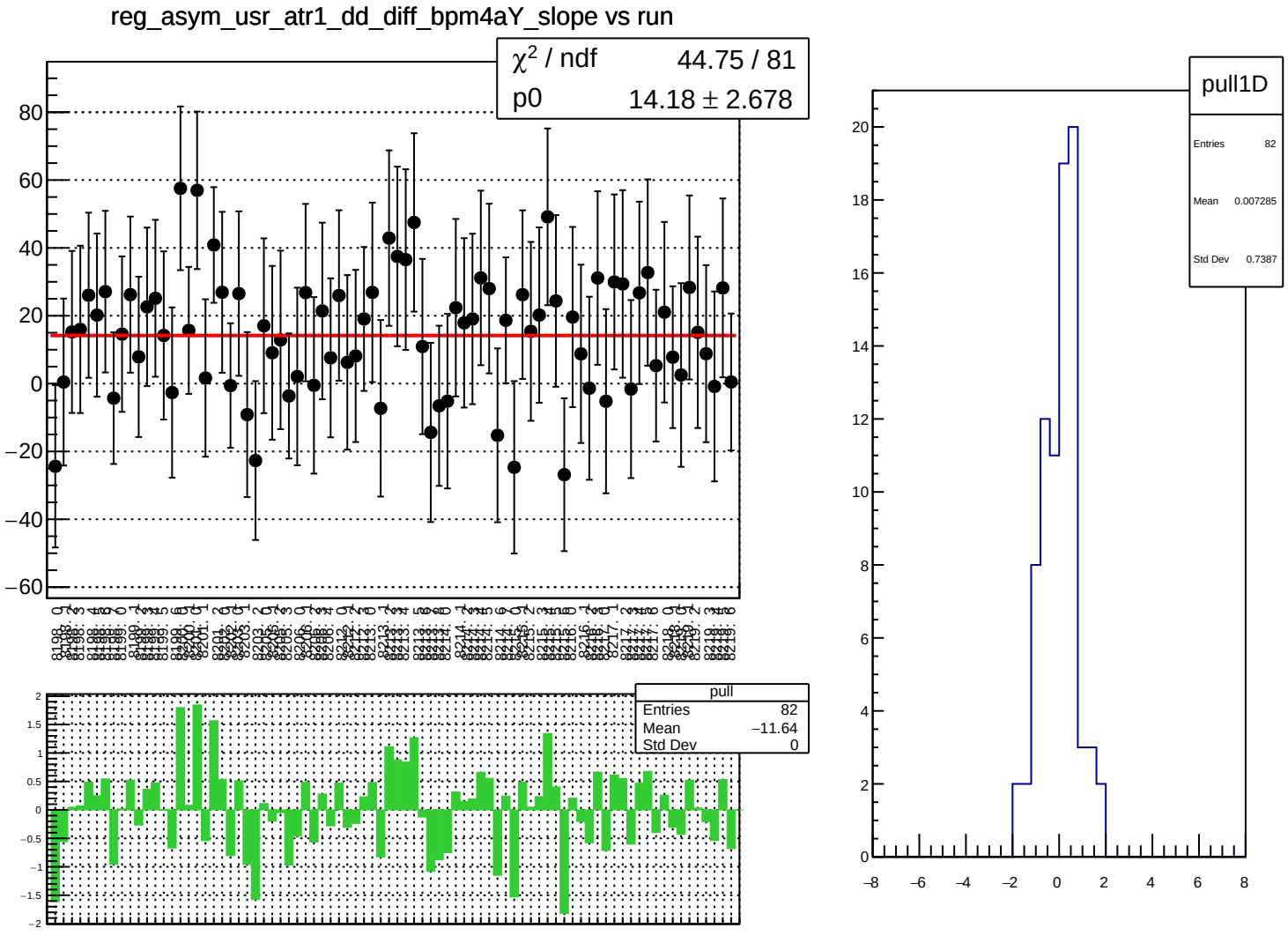

pull1D
Entries 82
Mean 0.01589
Std Dev 0.6142
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

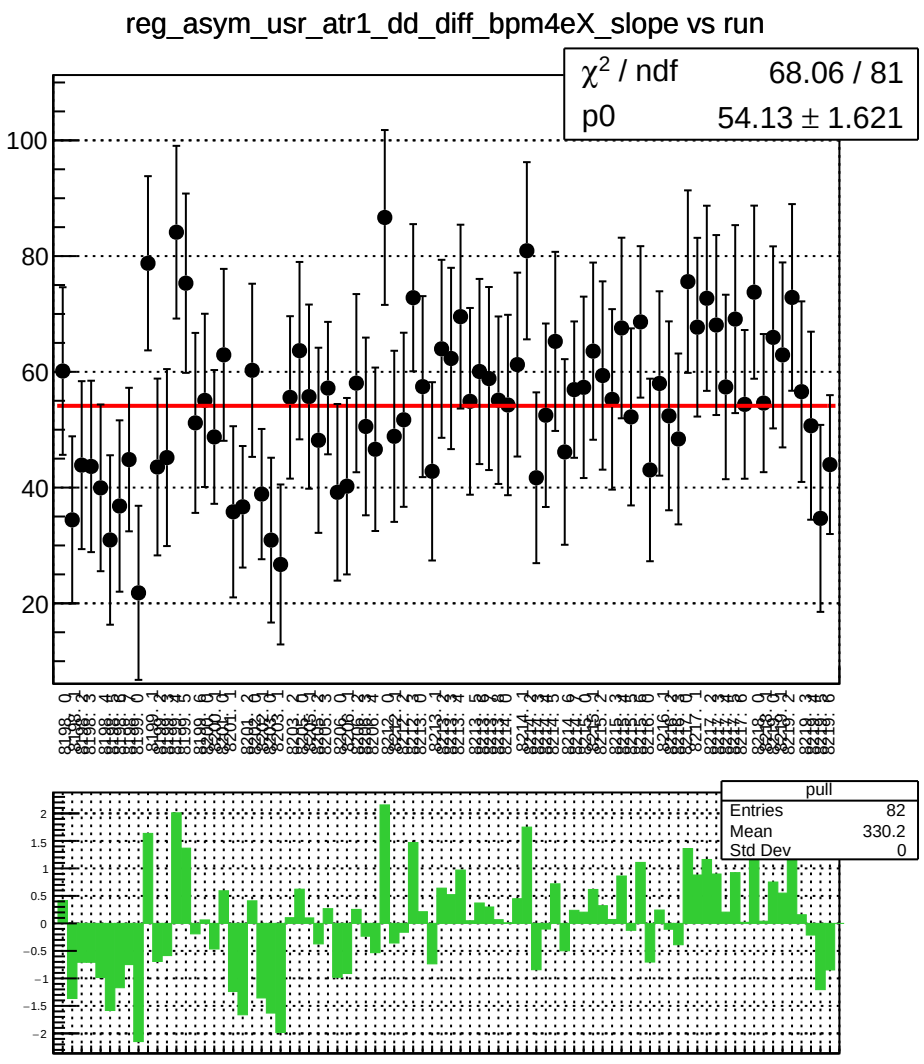

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 361.6 / 81
p0 −44.25 ± 0.2027
pull
Entries 82
Mean −219.5
Std Dev 0

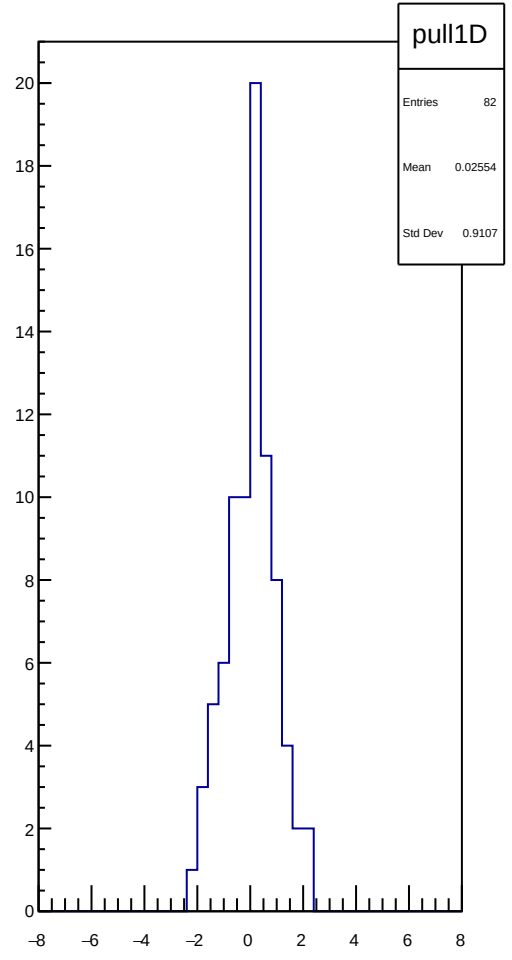

pull1D
Entries 82
Mean −0.1296
Std Dev 2.096

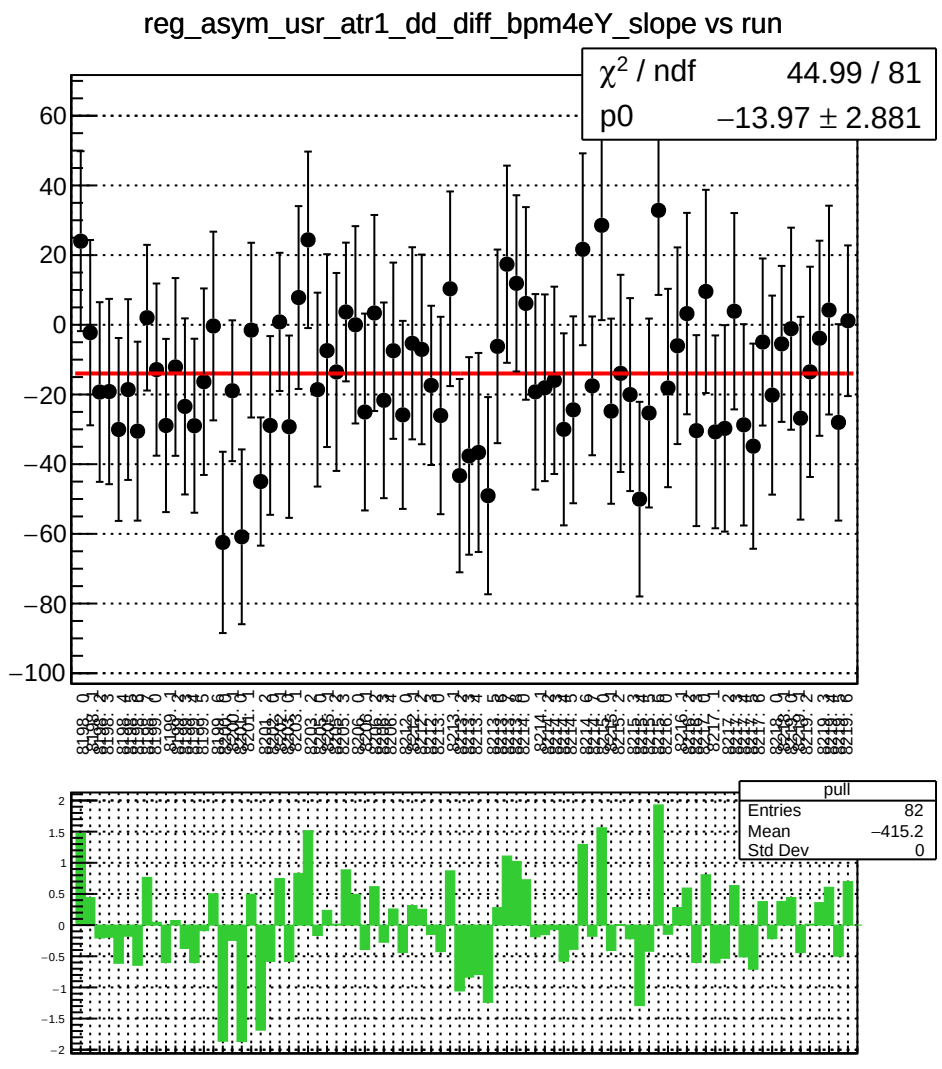

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 72.42 / 81
p0 2.74 ± 1.618
pull
Entries 82
Mean 405.2
Std Dev 0

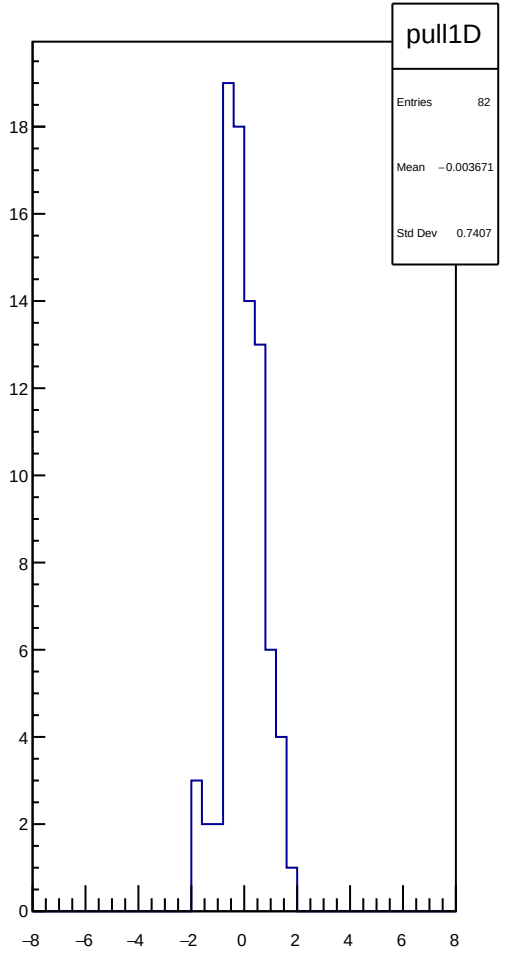

pull1D
Entries 82
Mean −0.02242
Std Dev 0.9395

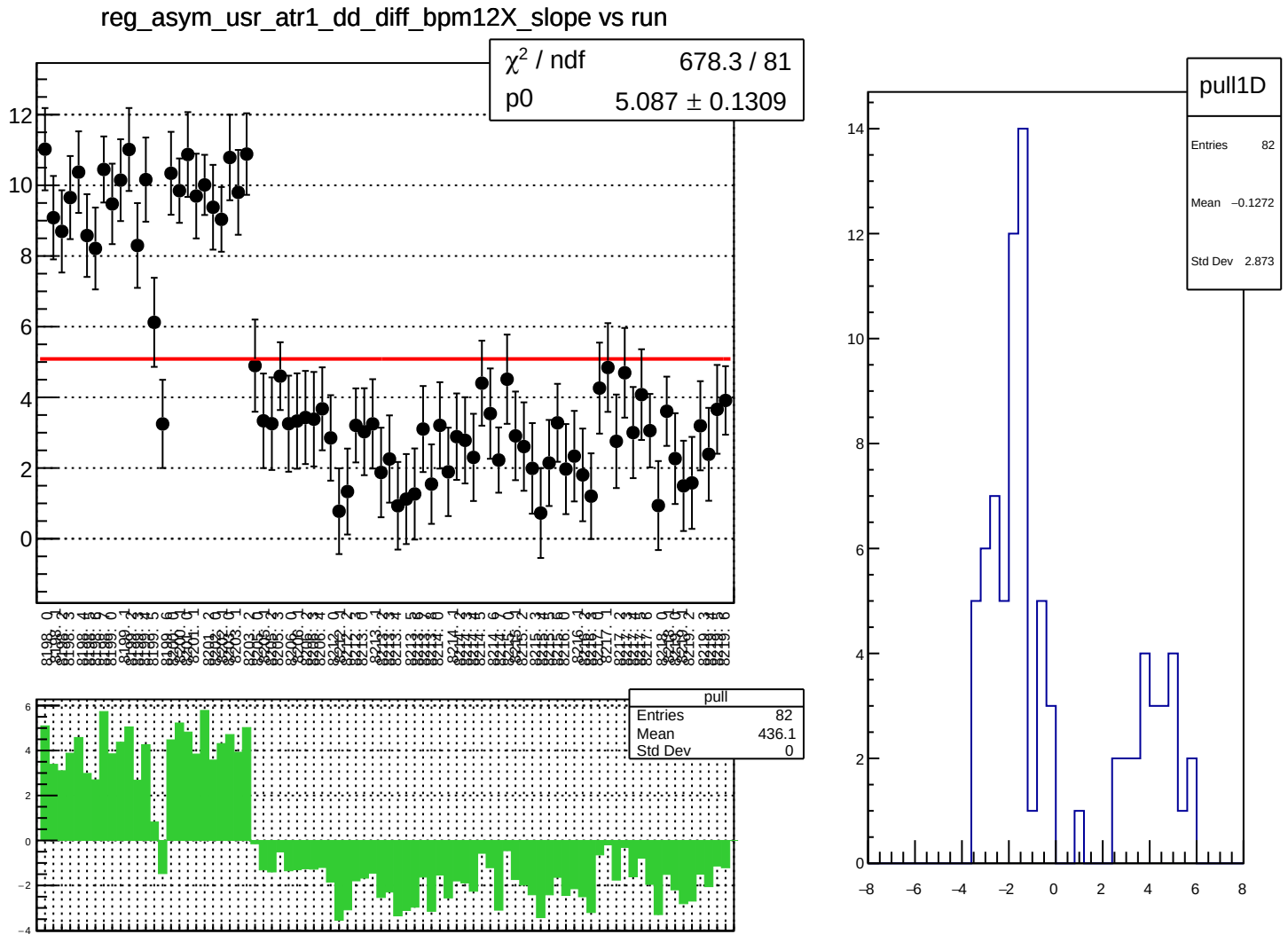

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.75 / 81
p0 14.18 ± 2.678
pull
Entries 82
Mean −11.64
Std Dev 0
pull1D
Entries 82
Mean 0.007285
Std Dev 0.7387

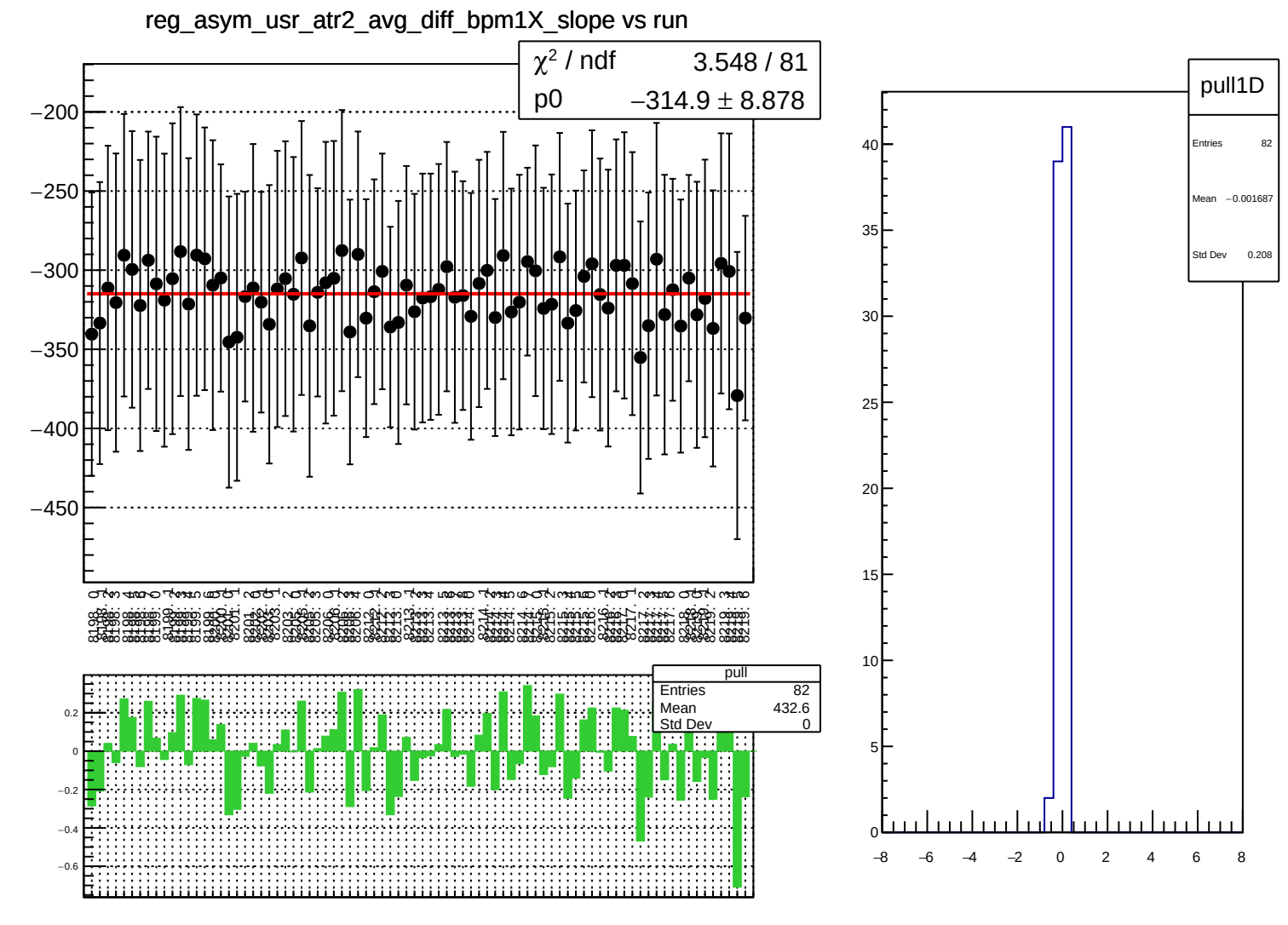

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.06 / 81
p0 54.13 ± 1.621
pull
Entries 82
Mean 330.2
Std Dev 0

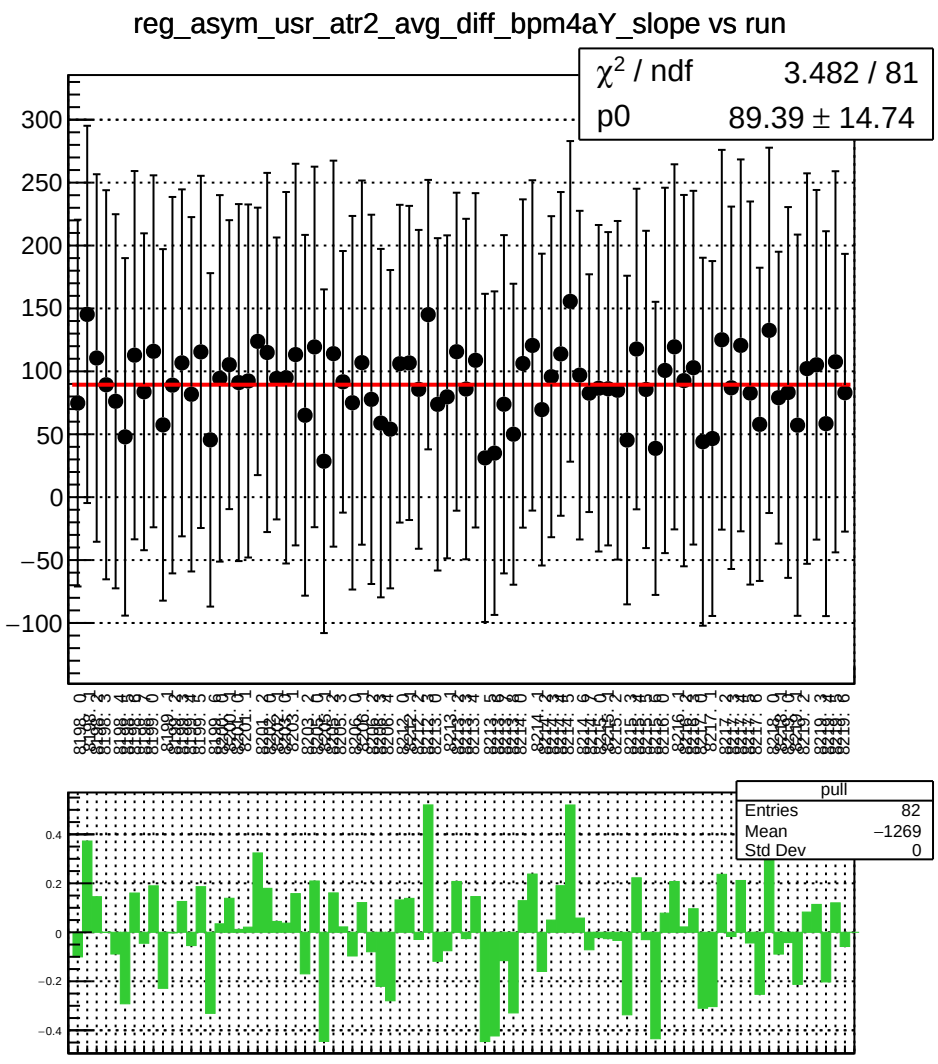

pull1D
Entries 82
Mean 0.02554
Std Dev 0.9107

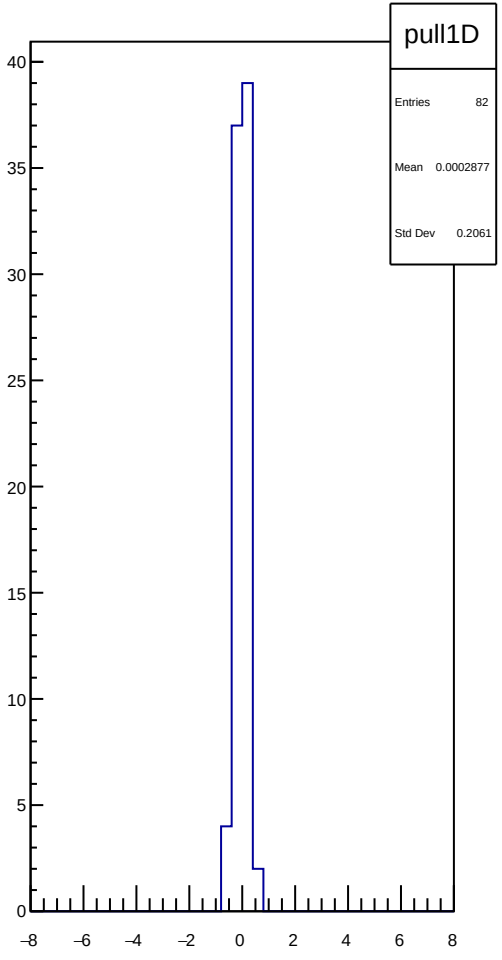

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.99 / 81
p0 −13.97 ± 2.881
pull
Entries 82
Mean −415.2
Std Dev 0

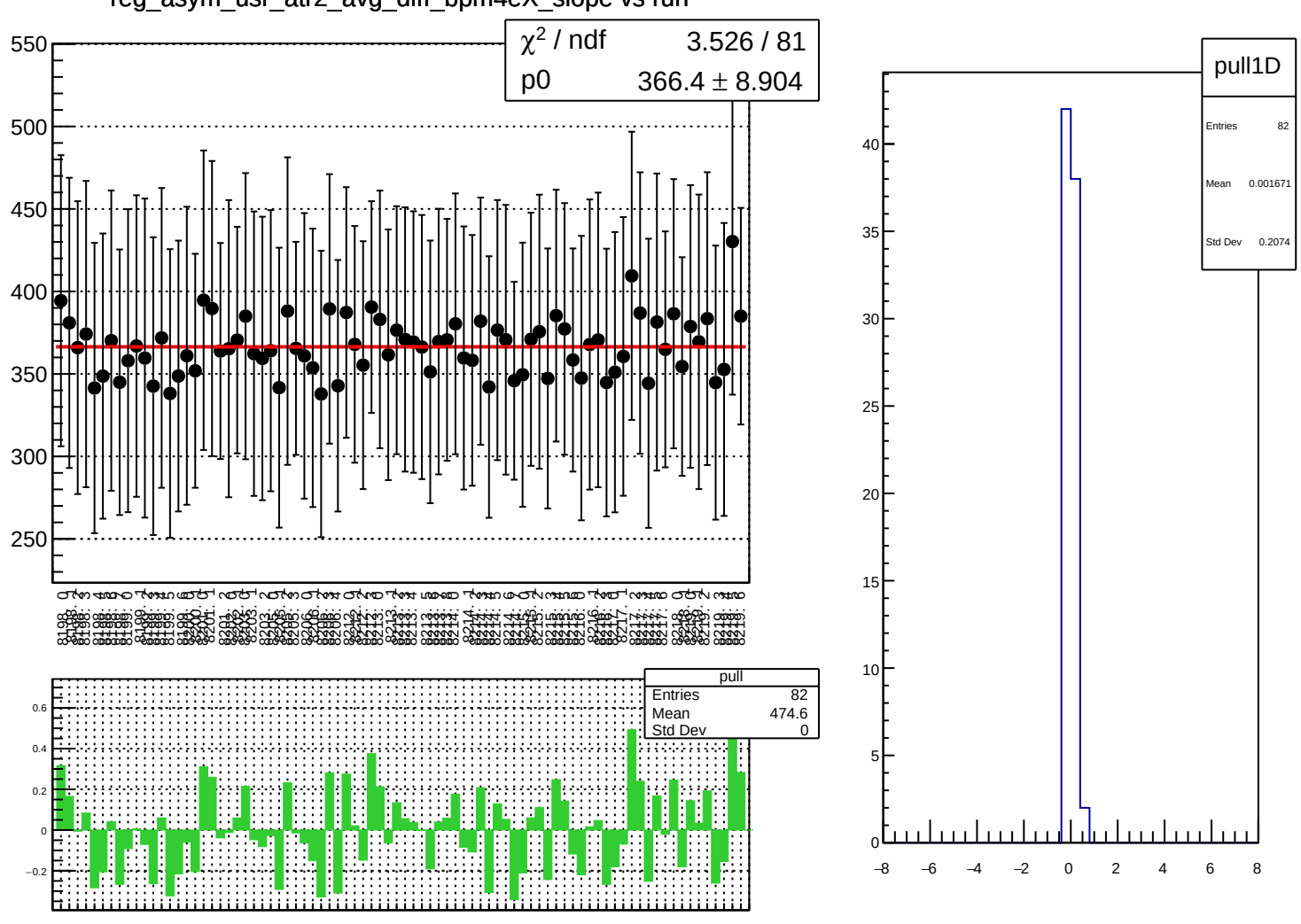

pull1D
Entries 82
Mean −0.003671
Std Dev 0.7407

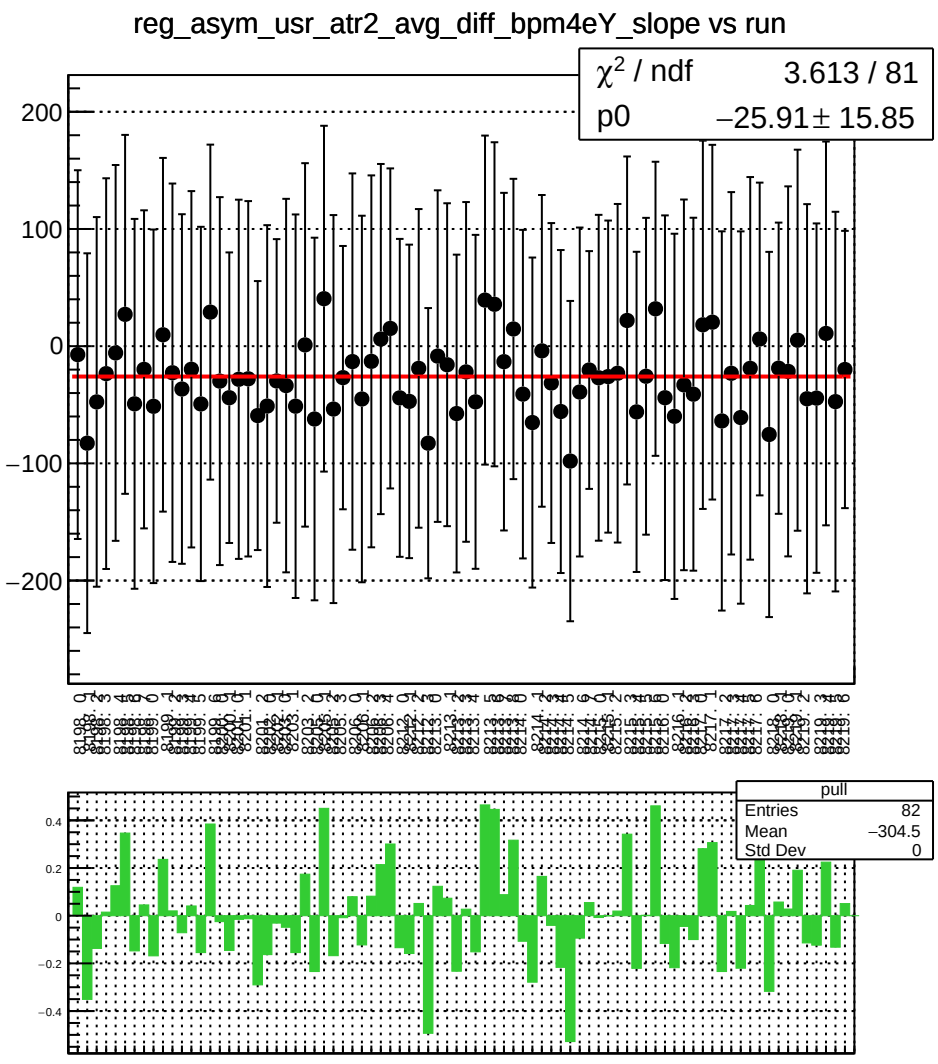

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 678.3 / 81
p0 5.087 ± 0.1309
pull
Entries 82
Mean 436.1
Std Dev 0
pull1D
Entries 82
Mean −0.1272
Std Dev 2.873

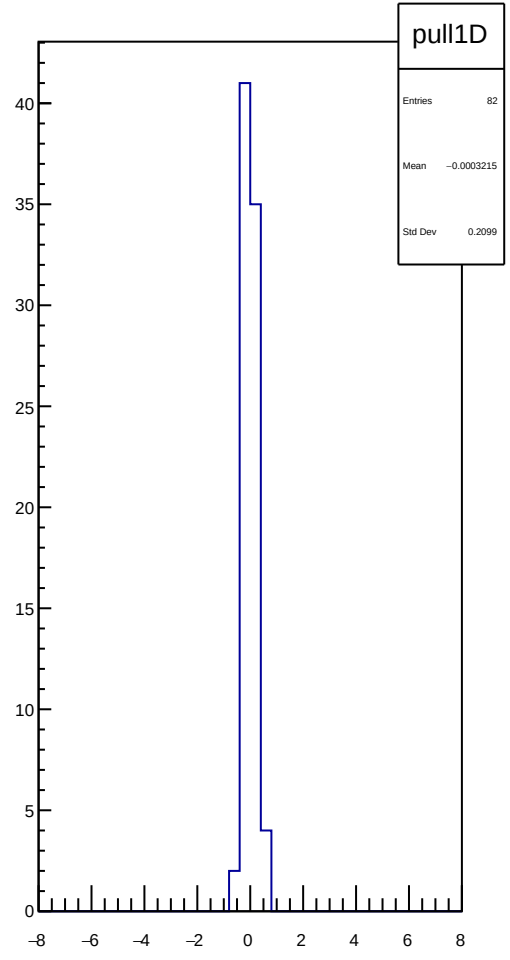

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.548 / 81
p0 −314.9 ± 8.878
−200
−250
−300
−350
−400
−450
pull
Entries 82
Mean 432.6
Std Dev 0
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean −0.001687
Std Dev 0.208
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

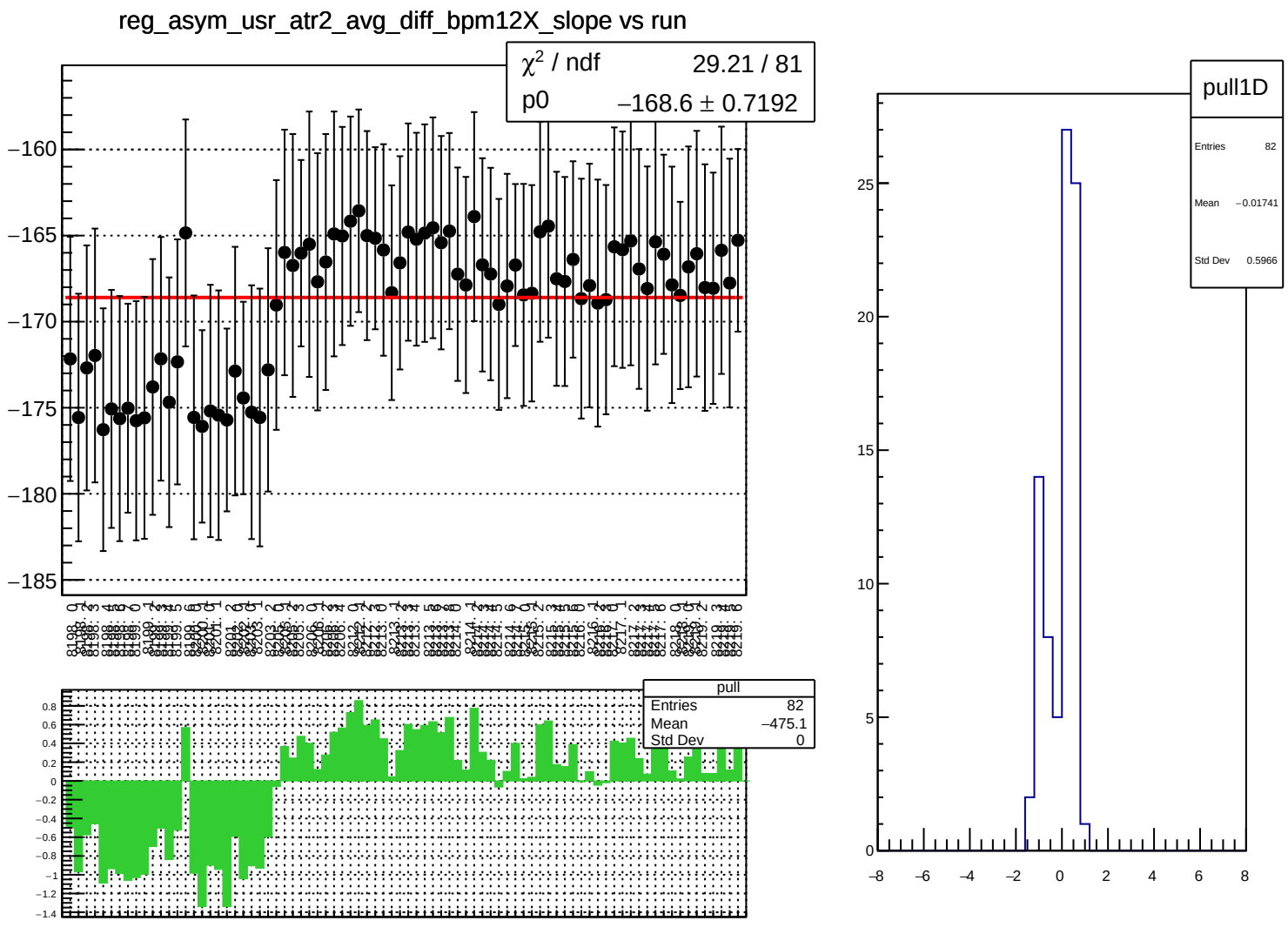

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.482 / 81
p0 89.39 ± 14.74
pull
Entries 82
Mean −1269
Std Dev 0

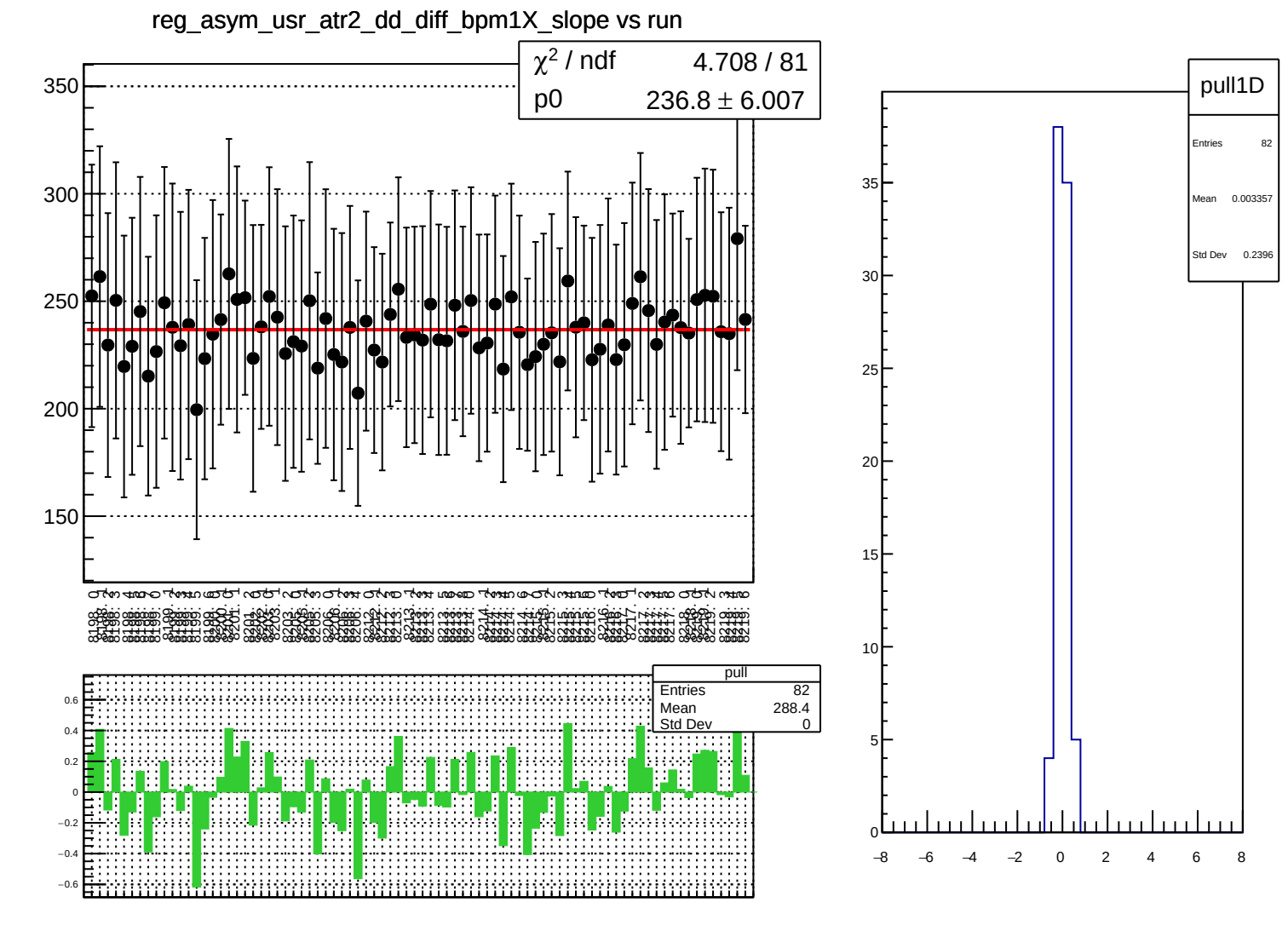

pull1D
Entries 82
Mean 0.0002877
Std Dev 0.2061

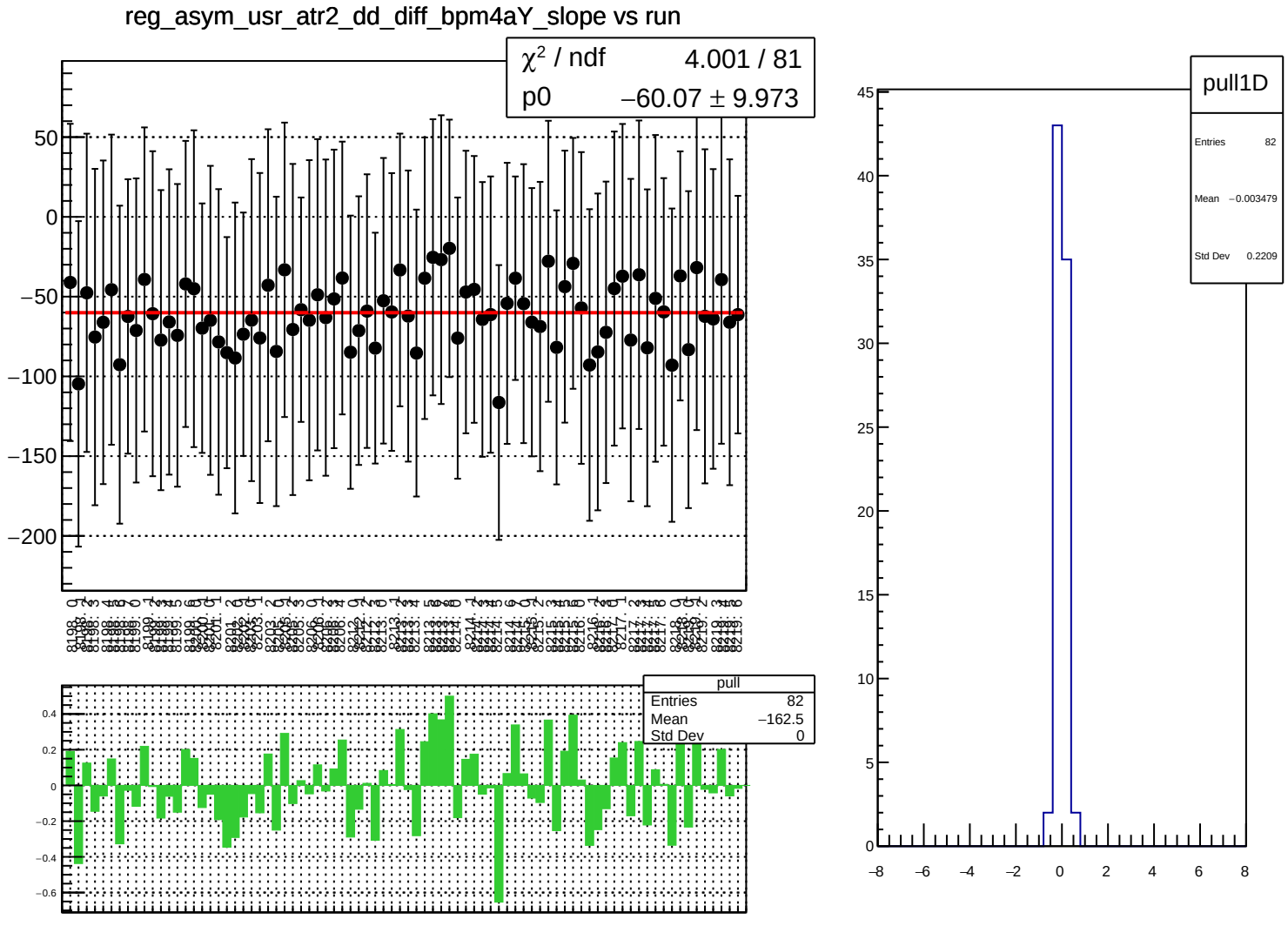

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.526 / 81
p0 366.4 ± 8.904
550
500
450
400
350
300
250
pull
Entries 82
Mean 474.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
pull1D
Entries 82
Mean 0.001671
Std Dev 0.2074
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

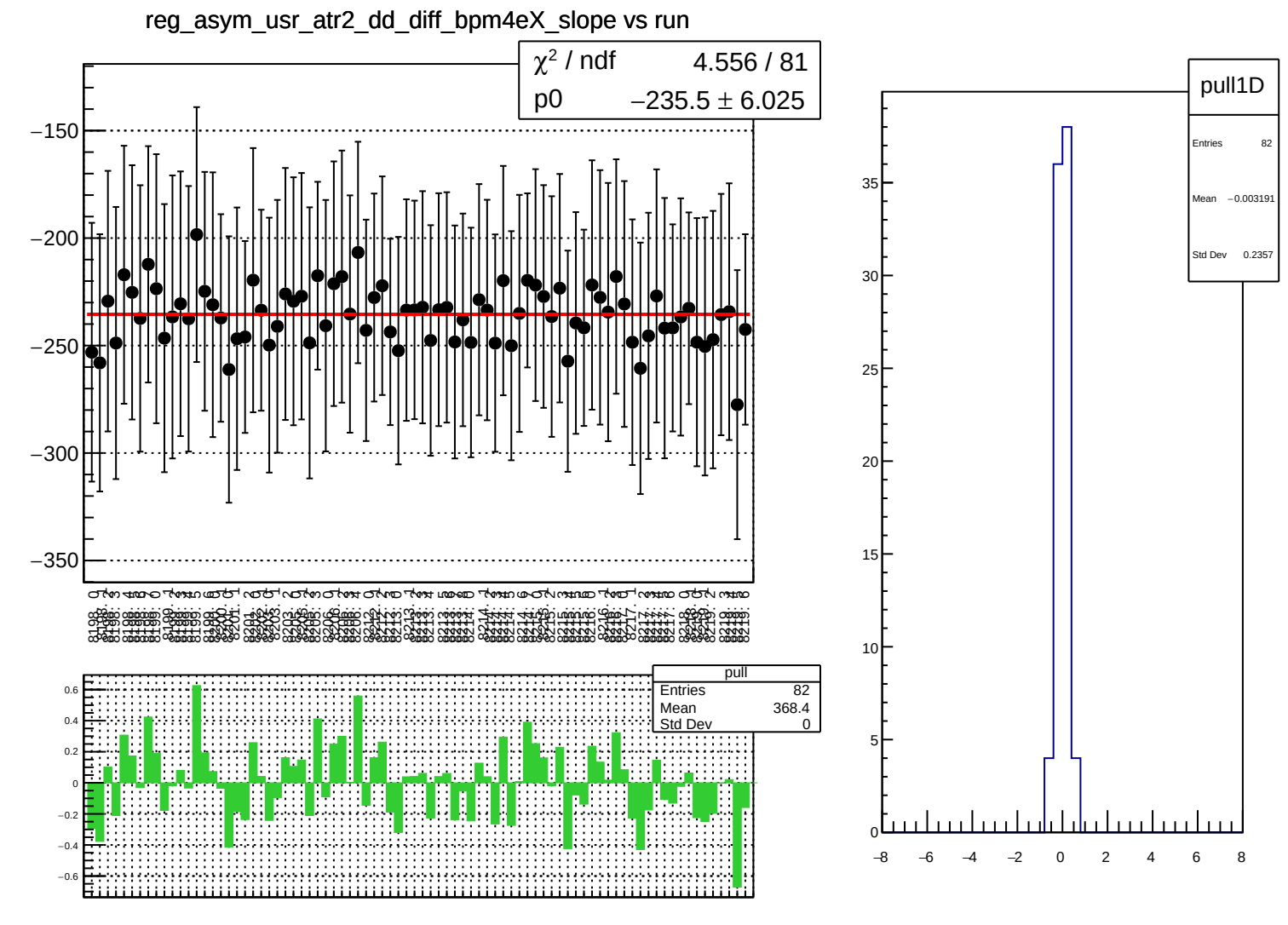

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.613 / 81
p0 −25.91 ± 15.85
200
100
0
−100
−200
pull
Entries 82
Mean −304.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4

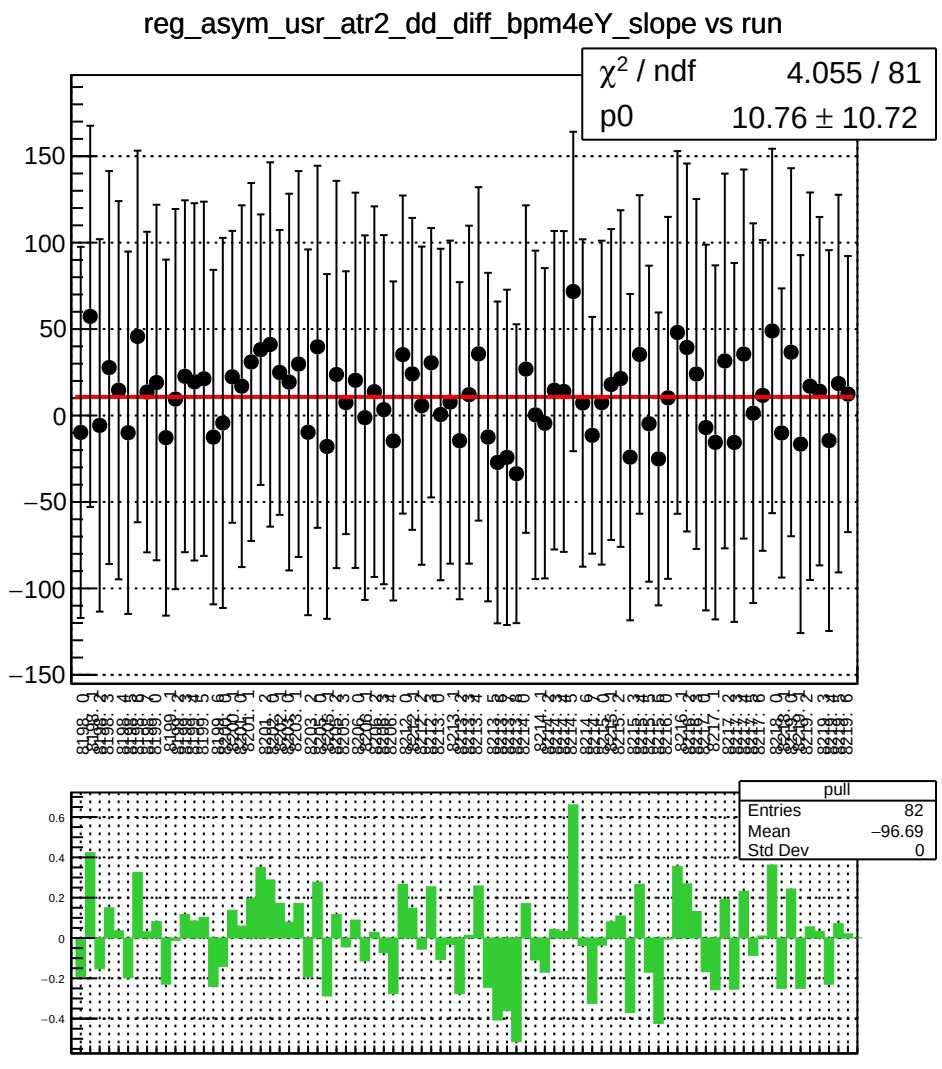

pull1D
Entries 82
Mean −0.0003215
Std Dev 0.2099
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

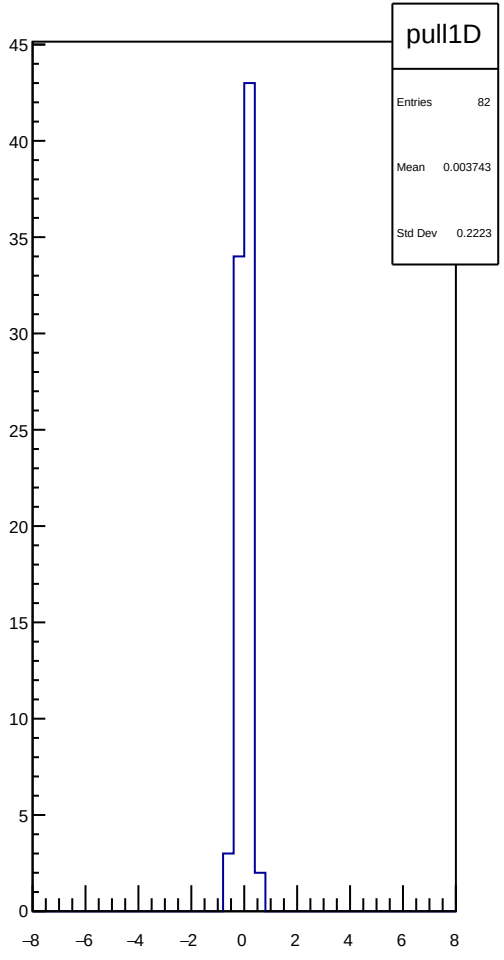

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 29.21 / 81
p0 −168.6 ± 0.7192
pull
Entries 82
Mean −475.1
Std Dev 0
pull1D
Entries 82
Mean −0.01741
Std Dev 0.5966

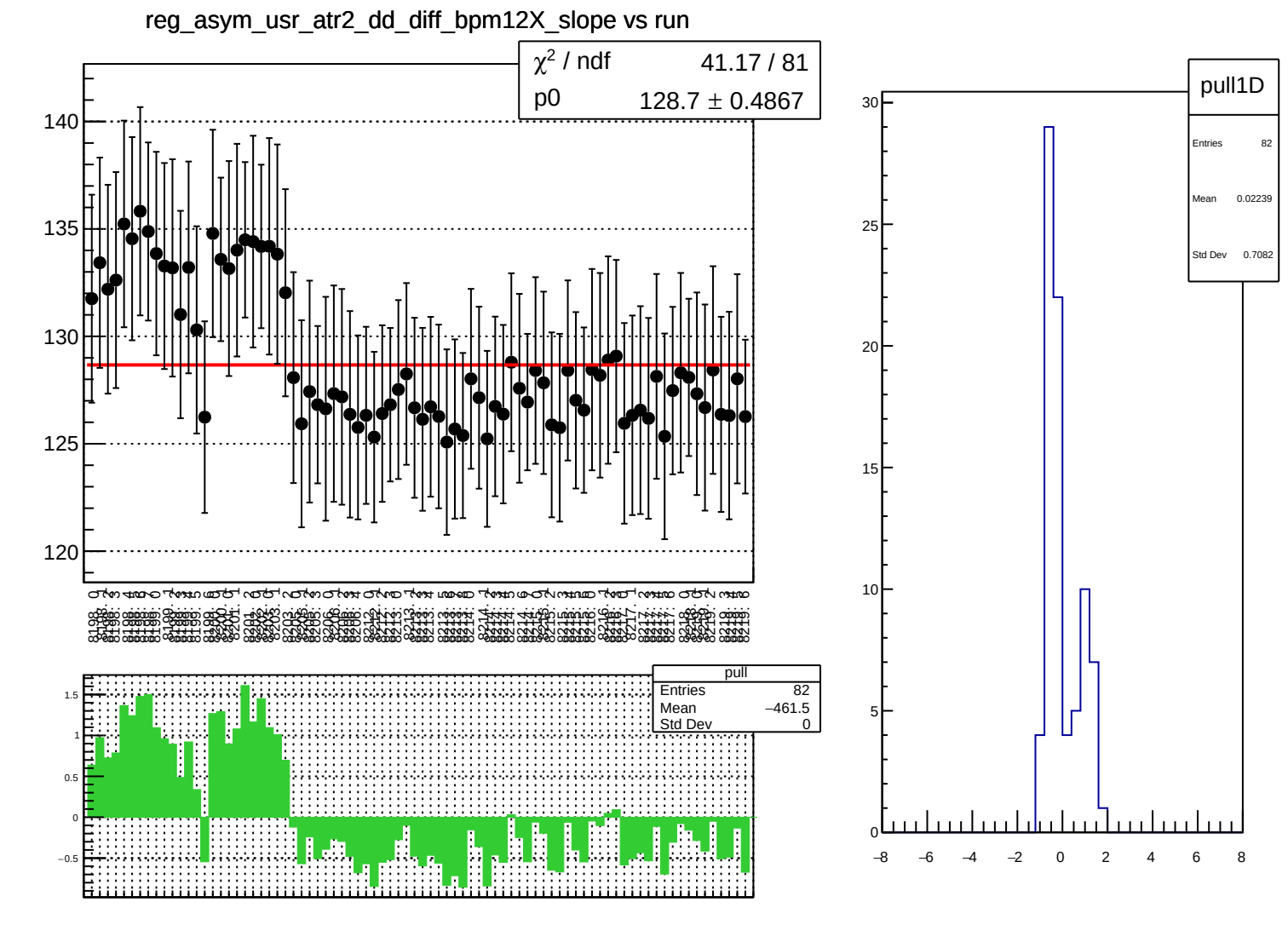

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 4.708 / 81
p0 236.8 ± 6.007
350
300
250
200
150
pull
Entries 82
Mean 288.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean 0.003357
Std Dev 0.2396
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

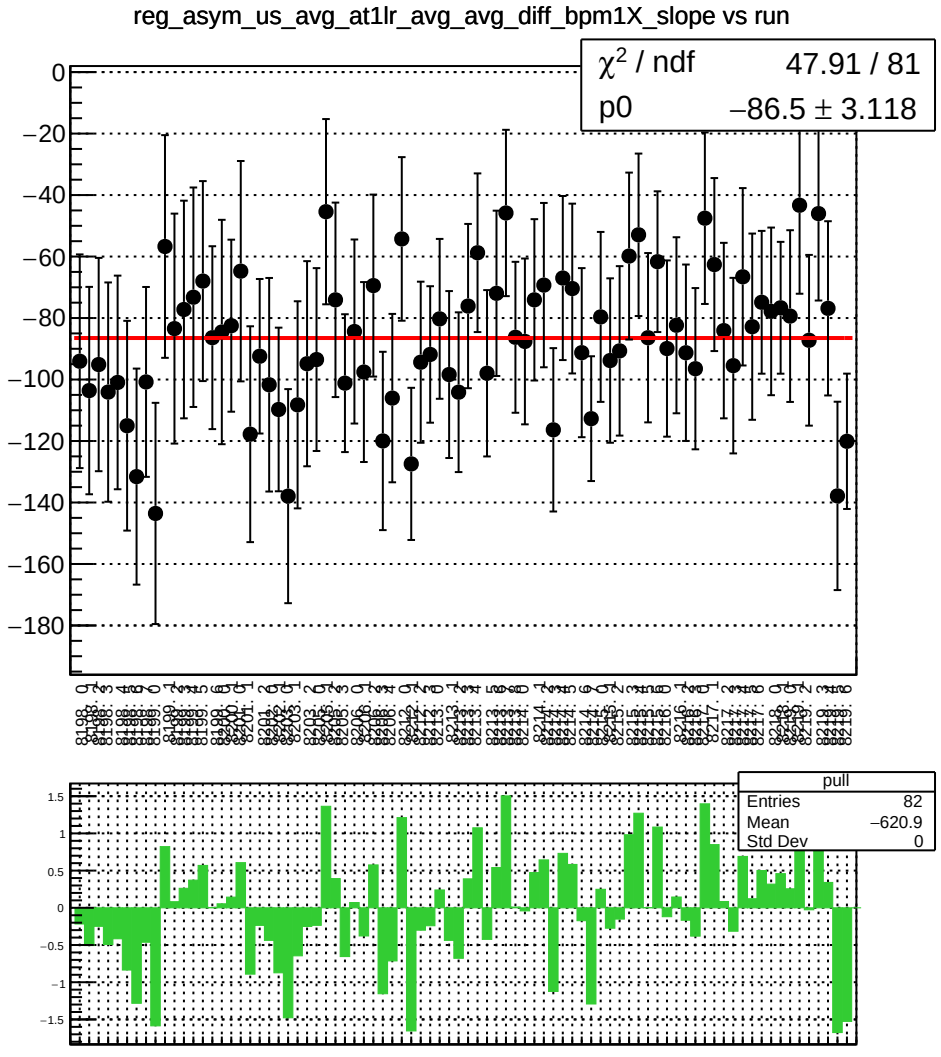

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.001 / 81
p0 −60.07 ± 9.973
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −162.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean −0.003479
Std Dev 0.2209
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

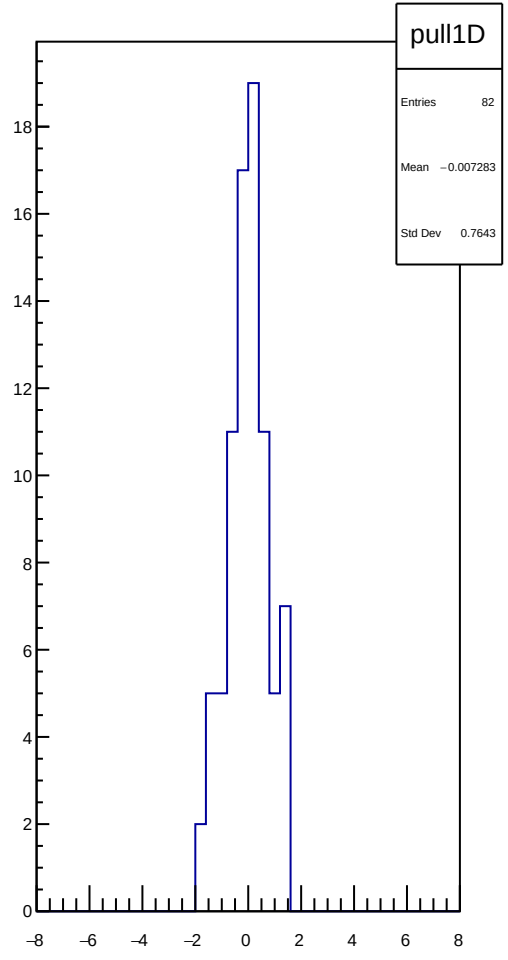

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.556 / 81
p0 −235.5 ± 6.025
−150
−200
−250
−300
−350
pull
Entries 82
Mean 368.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean −0.003191
Std Dev 0.2357
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

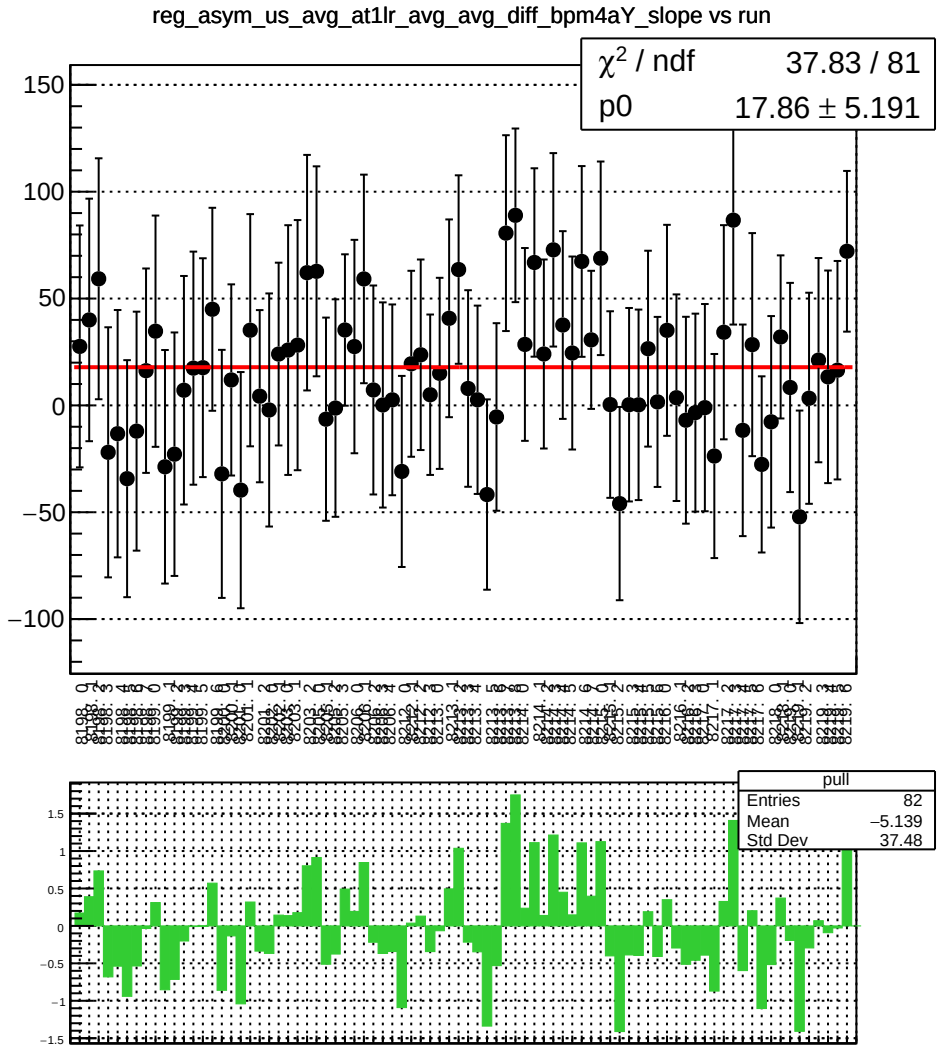

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.055 / 81
p0 10.76 ± 10.72
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −96.69
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

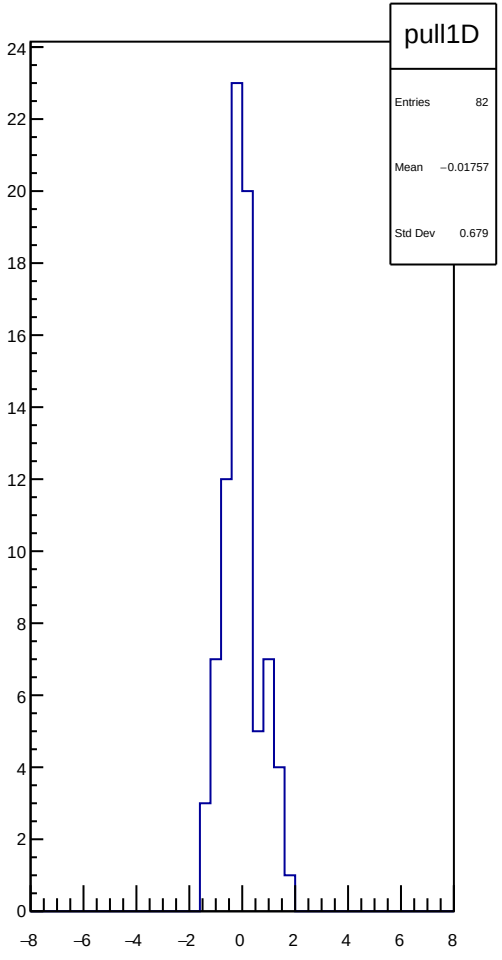

pull1D
Entries 82
Mean 0.003743
Std Dev 0.2223
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

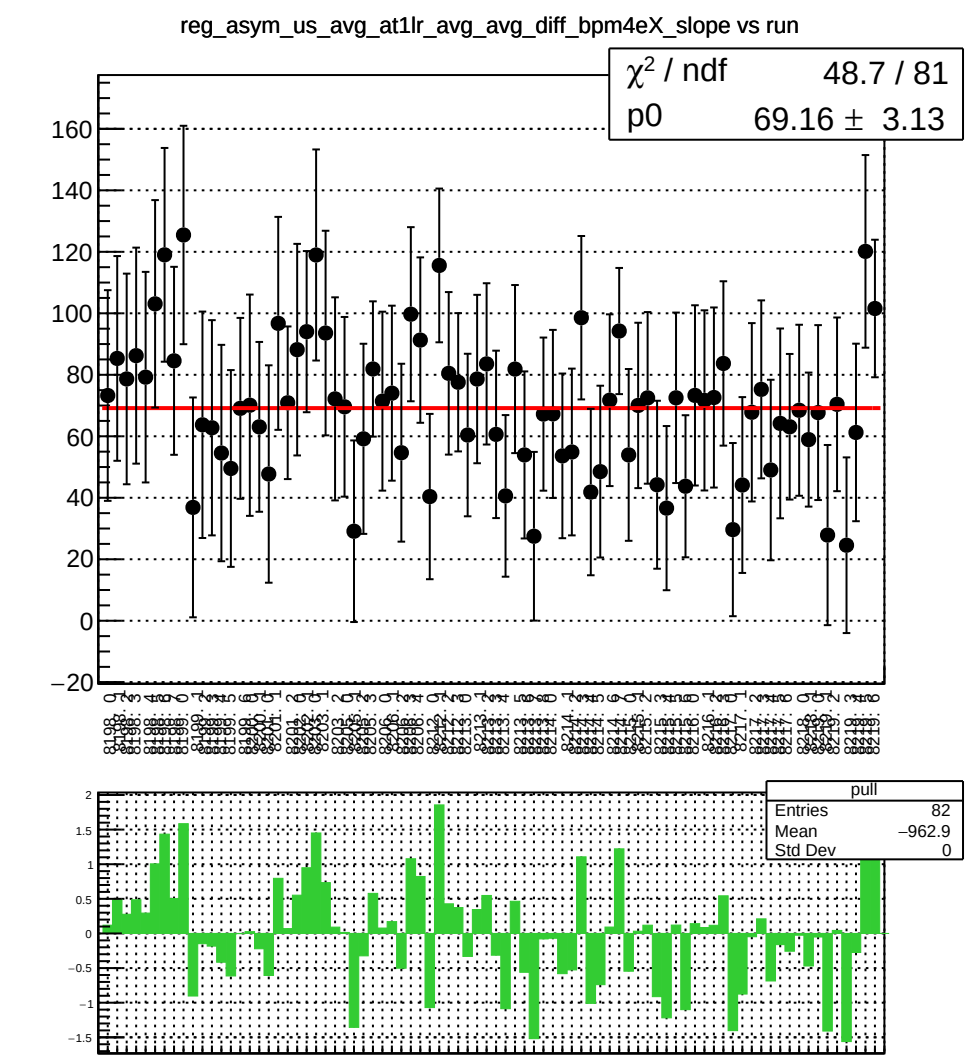

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 41.17 / 81
p0 128.7 ± 0.4867
140
135
130
125
120
pull
Entries 82
Mean −461.5
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 82
Mean 0.02239
Std Dev 0.7082
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

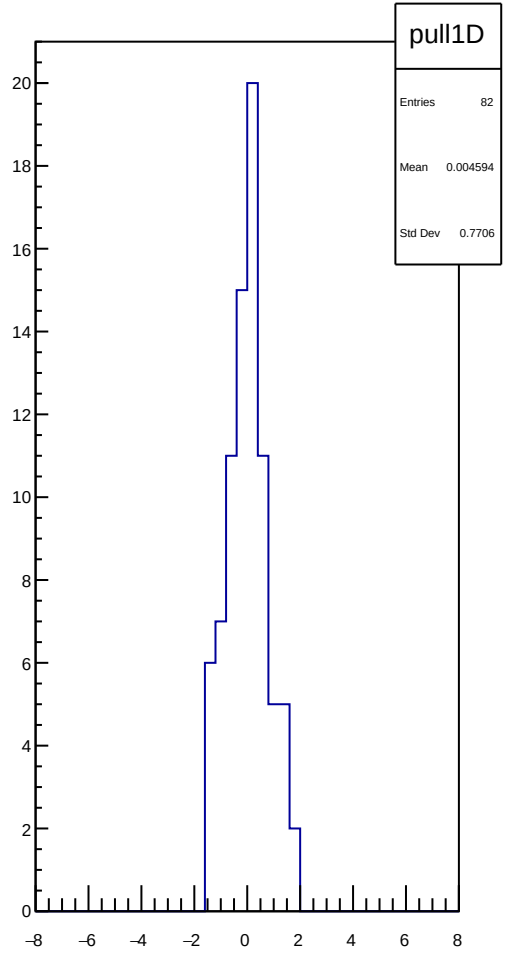

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 47.91 / 81
p0 −86.5 ± 3.118
pull
Entries 82
Mean −620.9
Std Dev 0

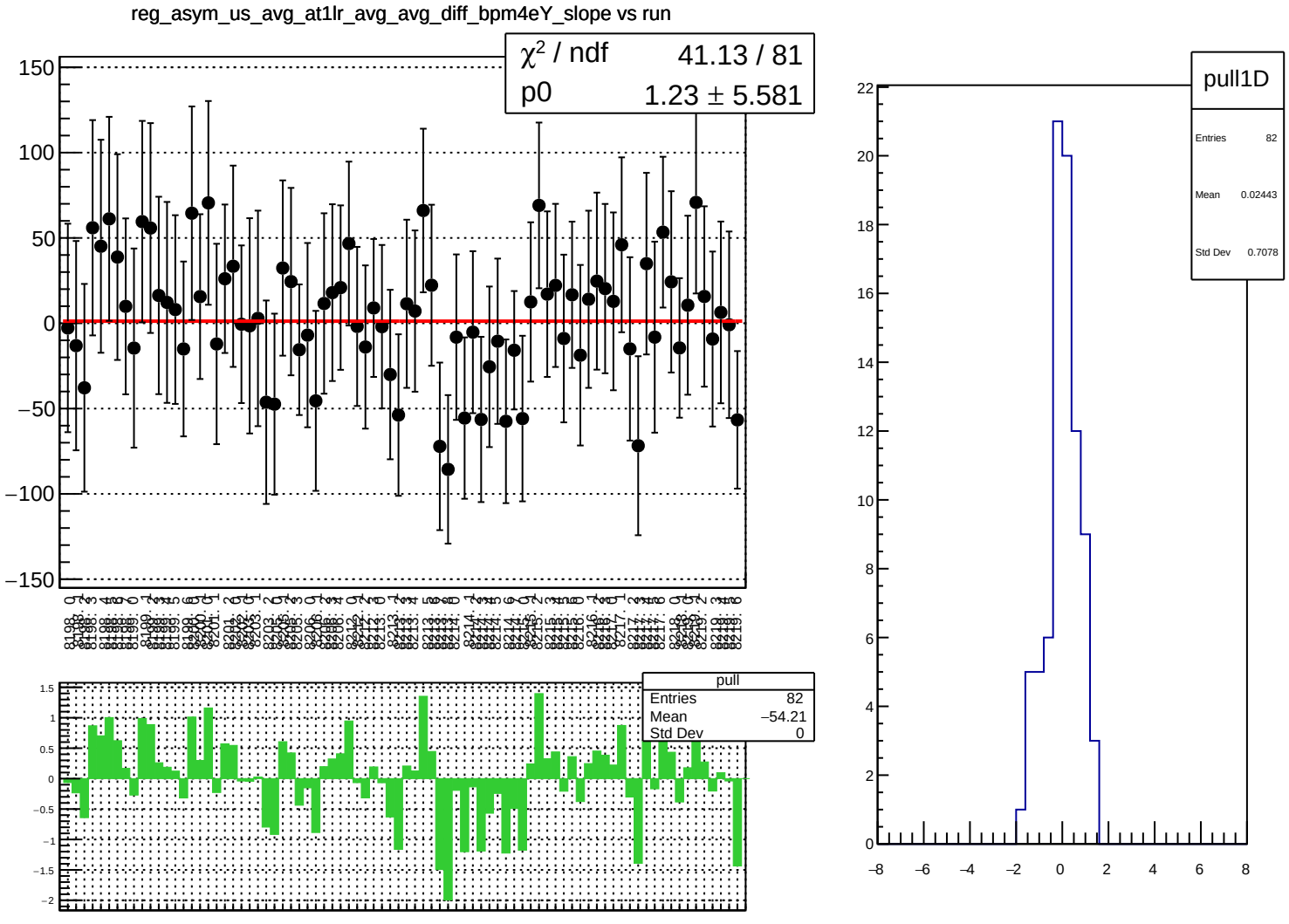

pull1D
Entries 82
Mean −0.007283
Std Dev 0.7643

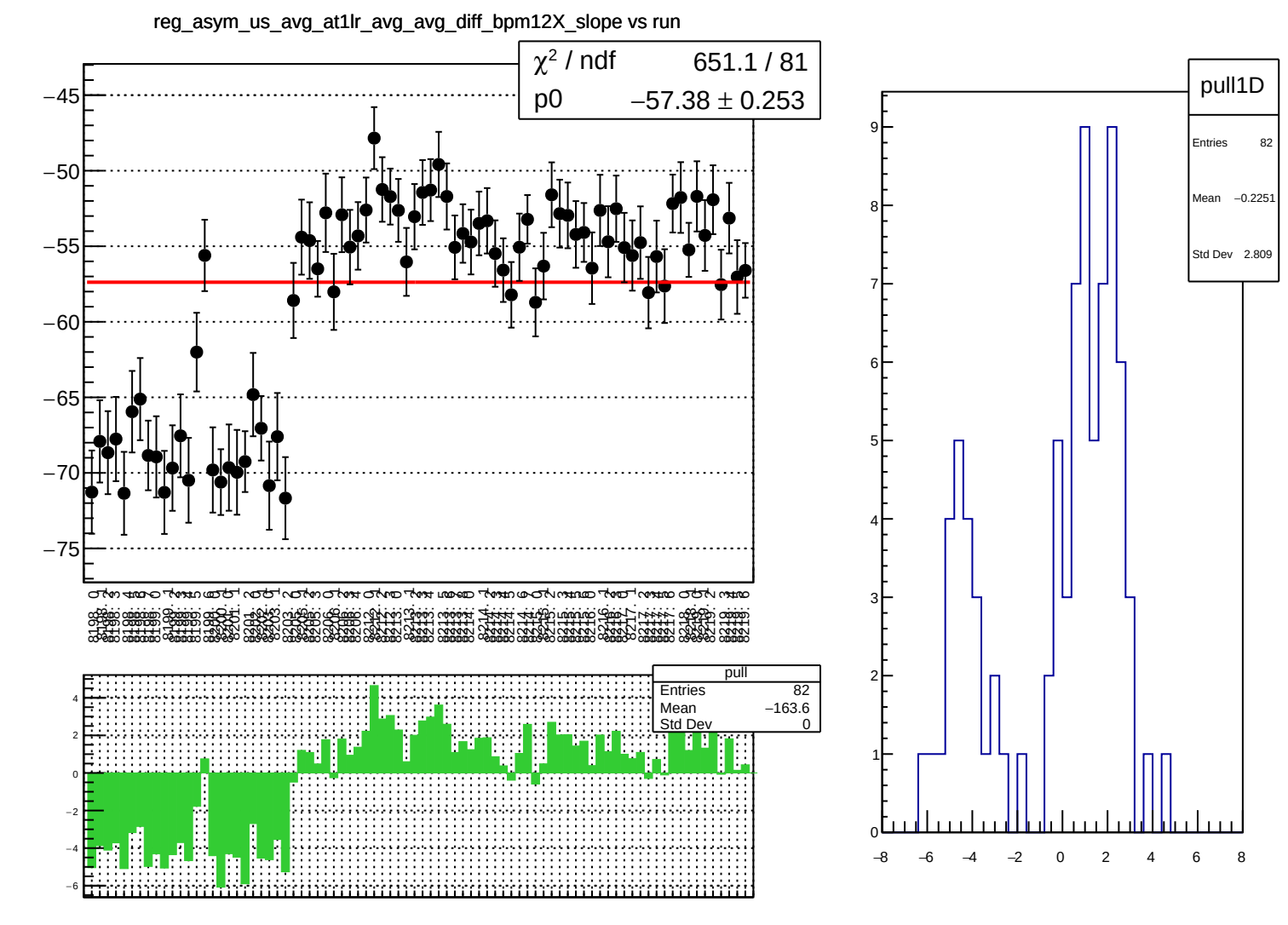

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.83 / 81
p0 17.86 ± 5.191
pull
Entries 82
Mean −5.139
Std Dev 37.48

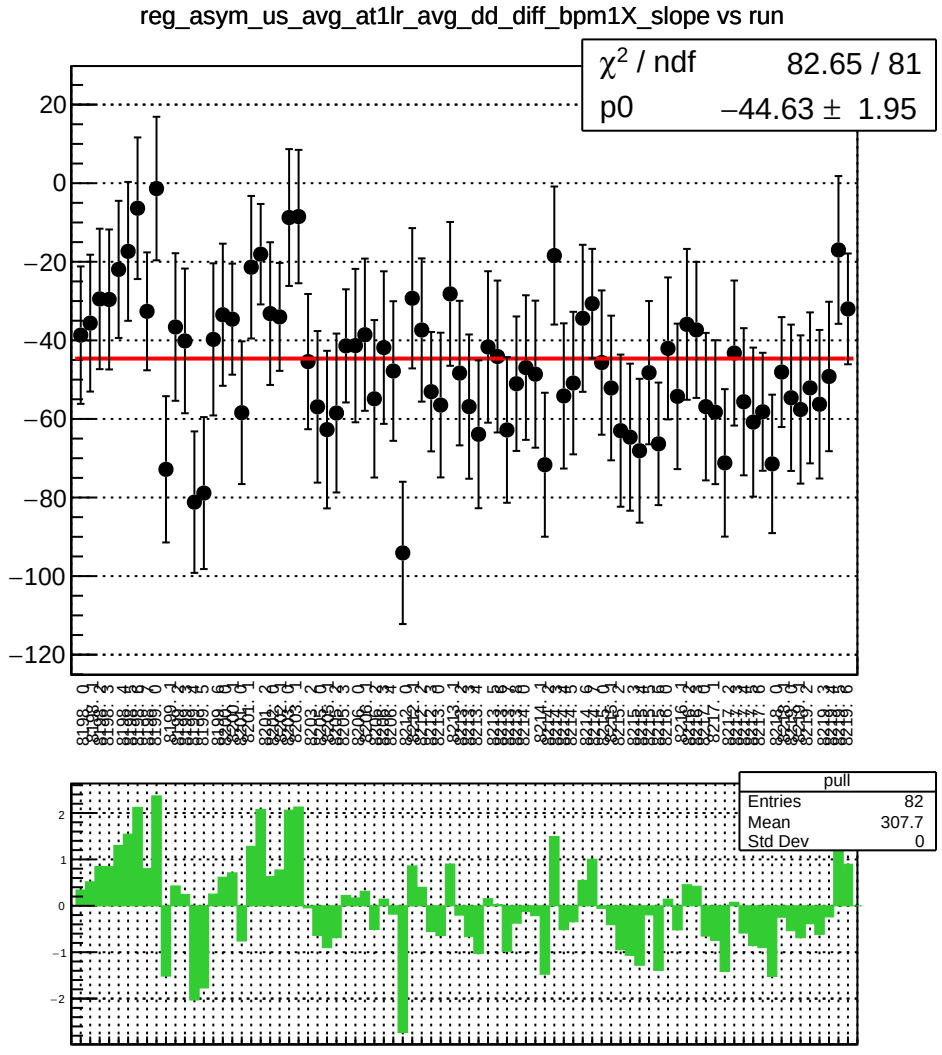

pull1D
Entries 82
Mean −0.01757
Std Dev 0.679

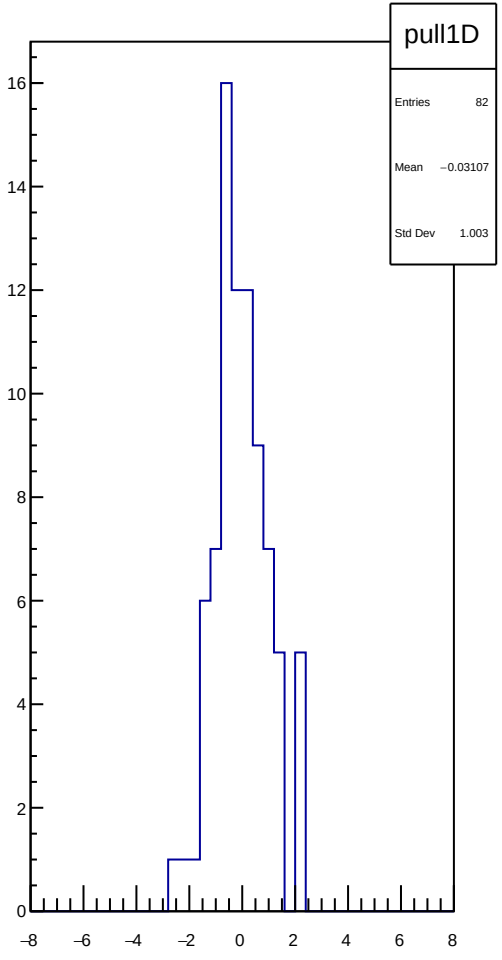

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.7 / 81
p0 69.16 ± 3.13
pull
Entries 82
Mean −962.9
Std Dev 0

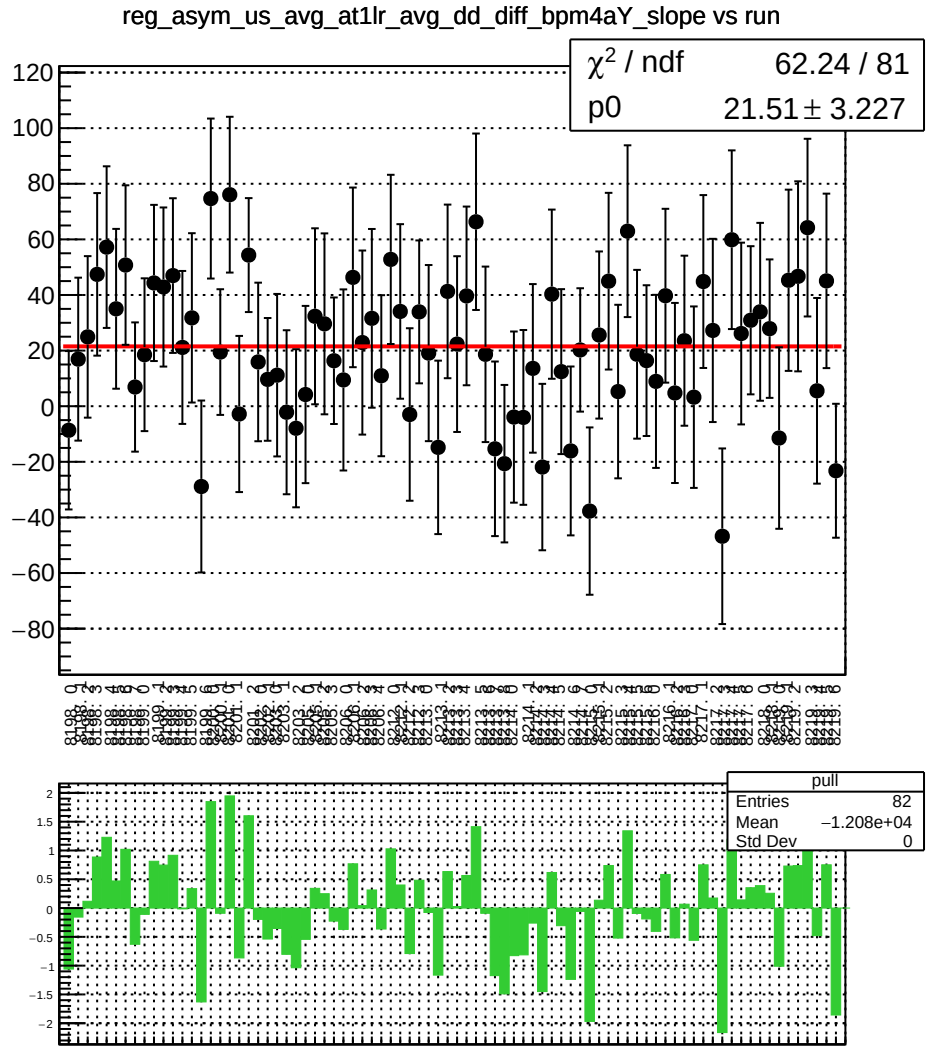

pull1D
Entries 82
Mean 0.004594
Std Dev 0.7706

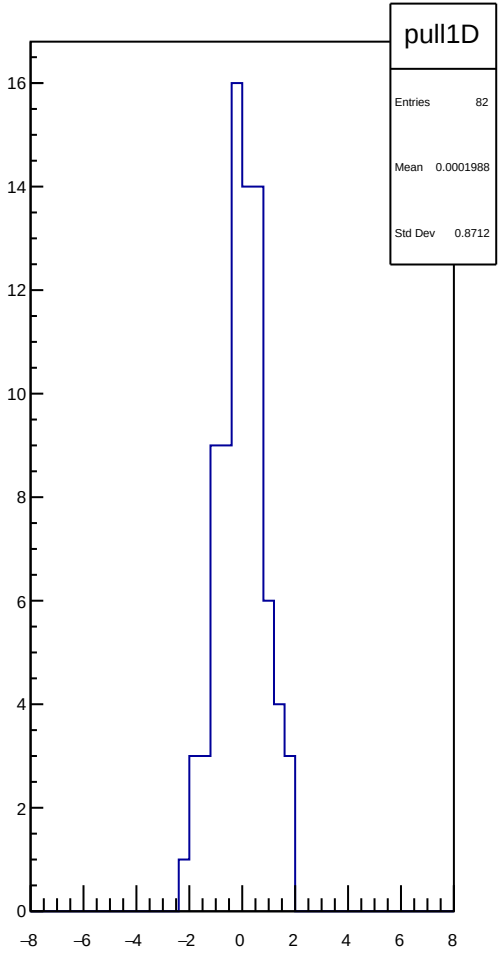

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.13 / 81
p0 1.23 ± 5.581
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −54.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.02443
Std Dev 0.7078
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

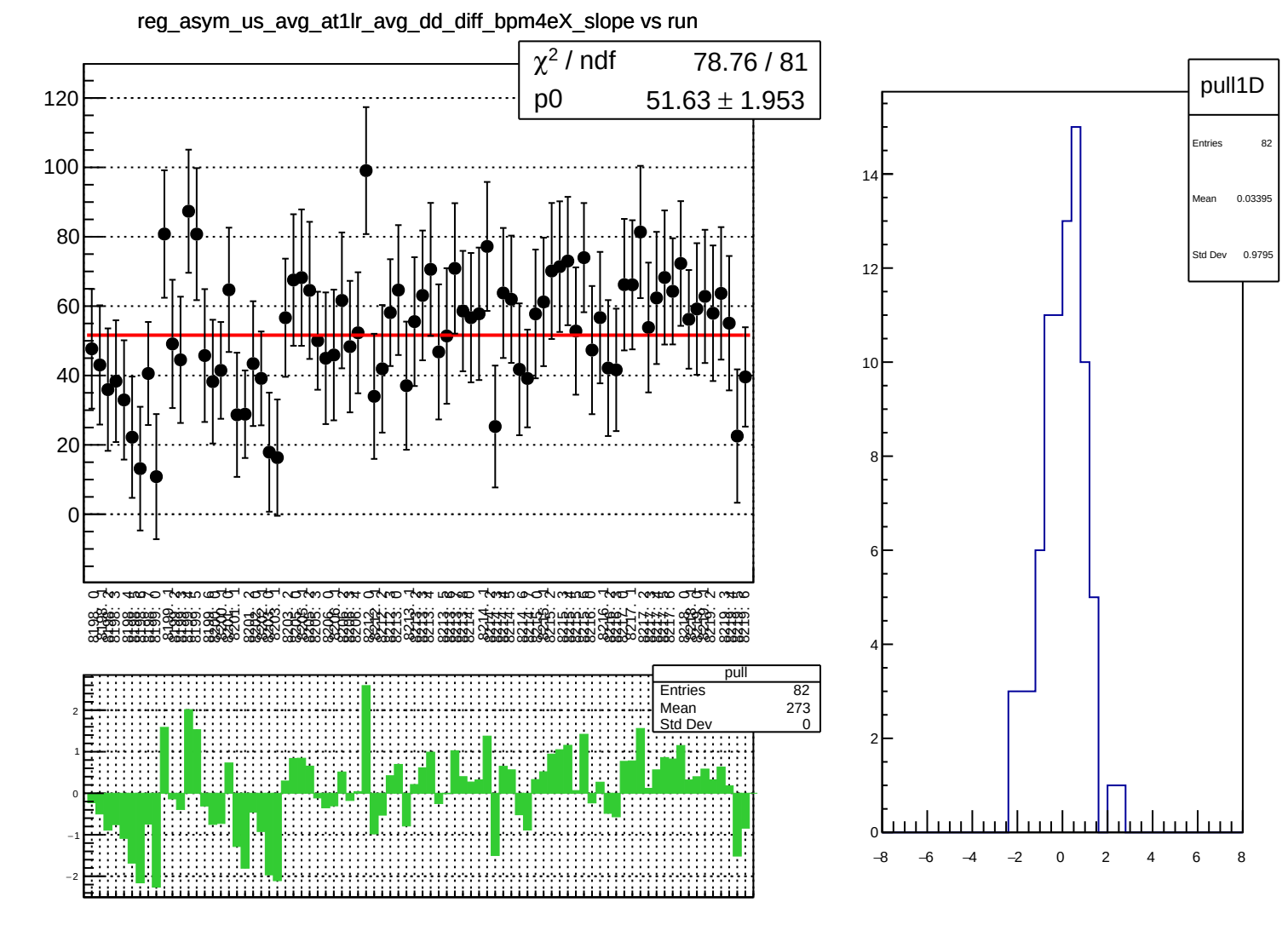

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 651.1 / 81
p0 −57.38 ± 0.253
pull
Entries 82
Mean −163.6
Std Dev 0
pull1D
Entries 82
Mean −0.2251
Std Dev 2.809

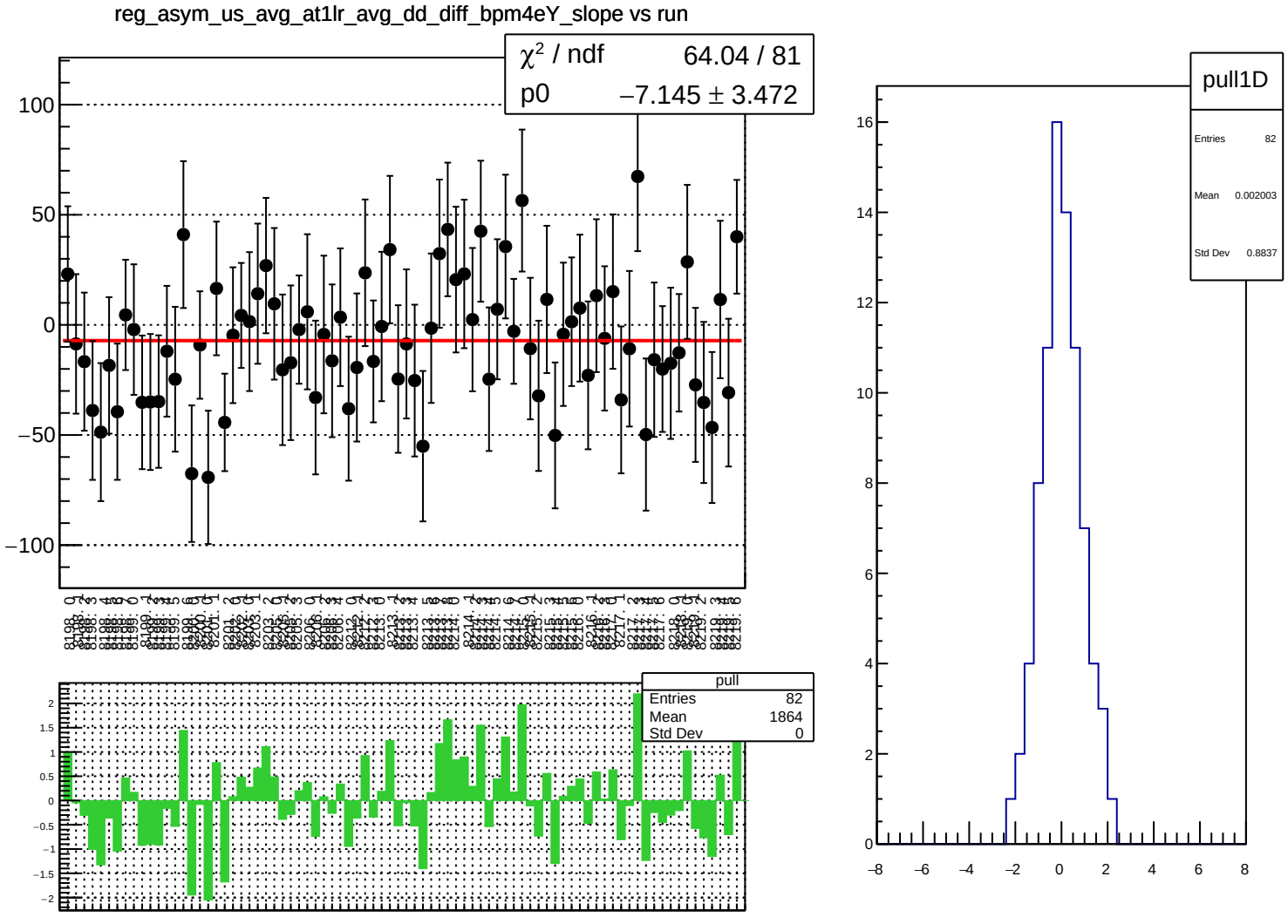

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 82.65 / 81
p0 −44.63 ± 1.95
pull
Entries 82
Mean 307.7
Std Dev 0

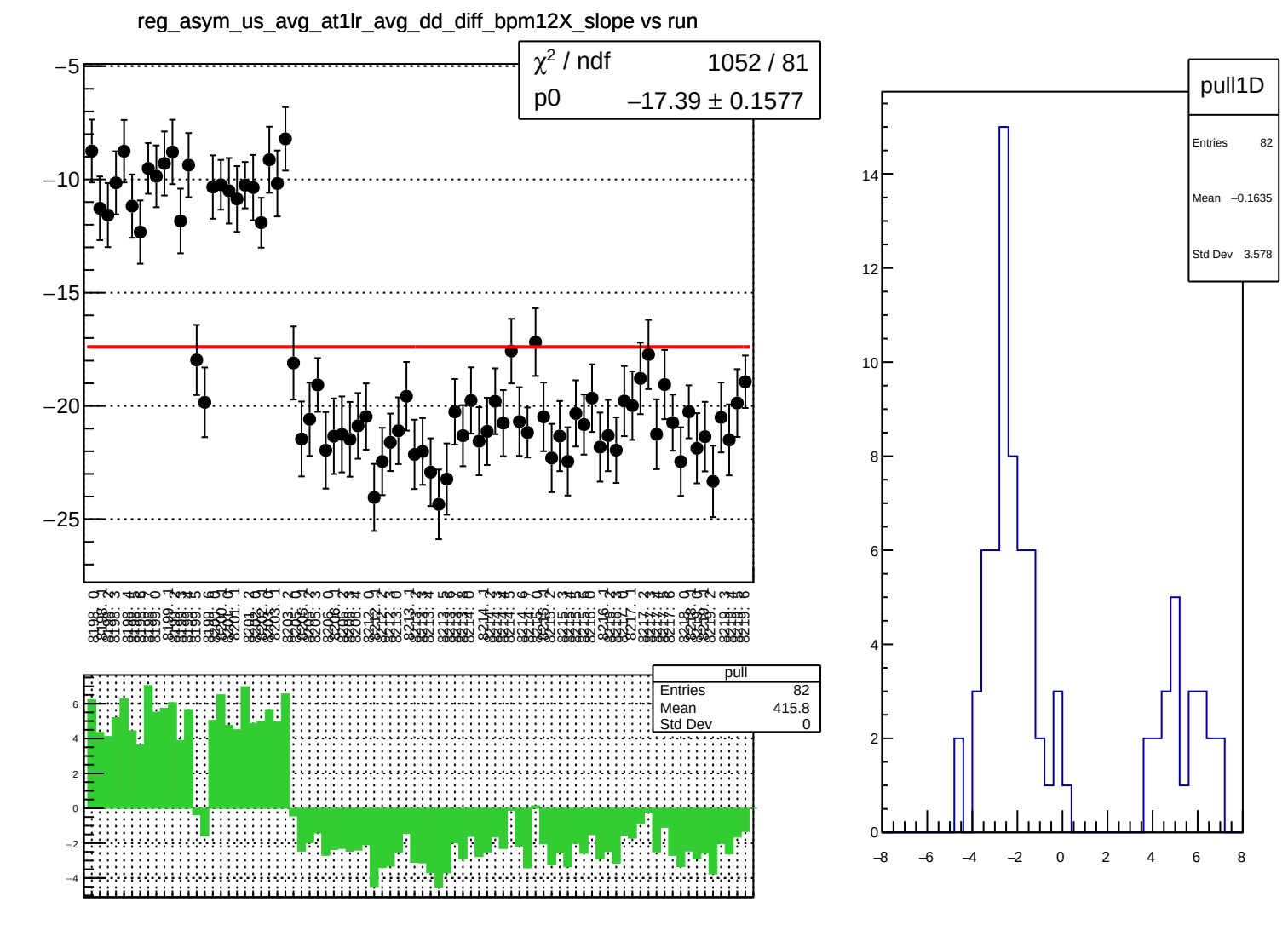

pull1D
Entries 82
Mean −0.03107
Std Dev 1.003

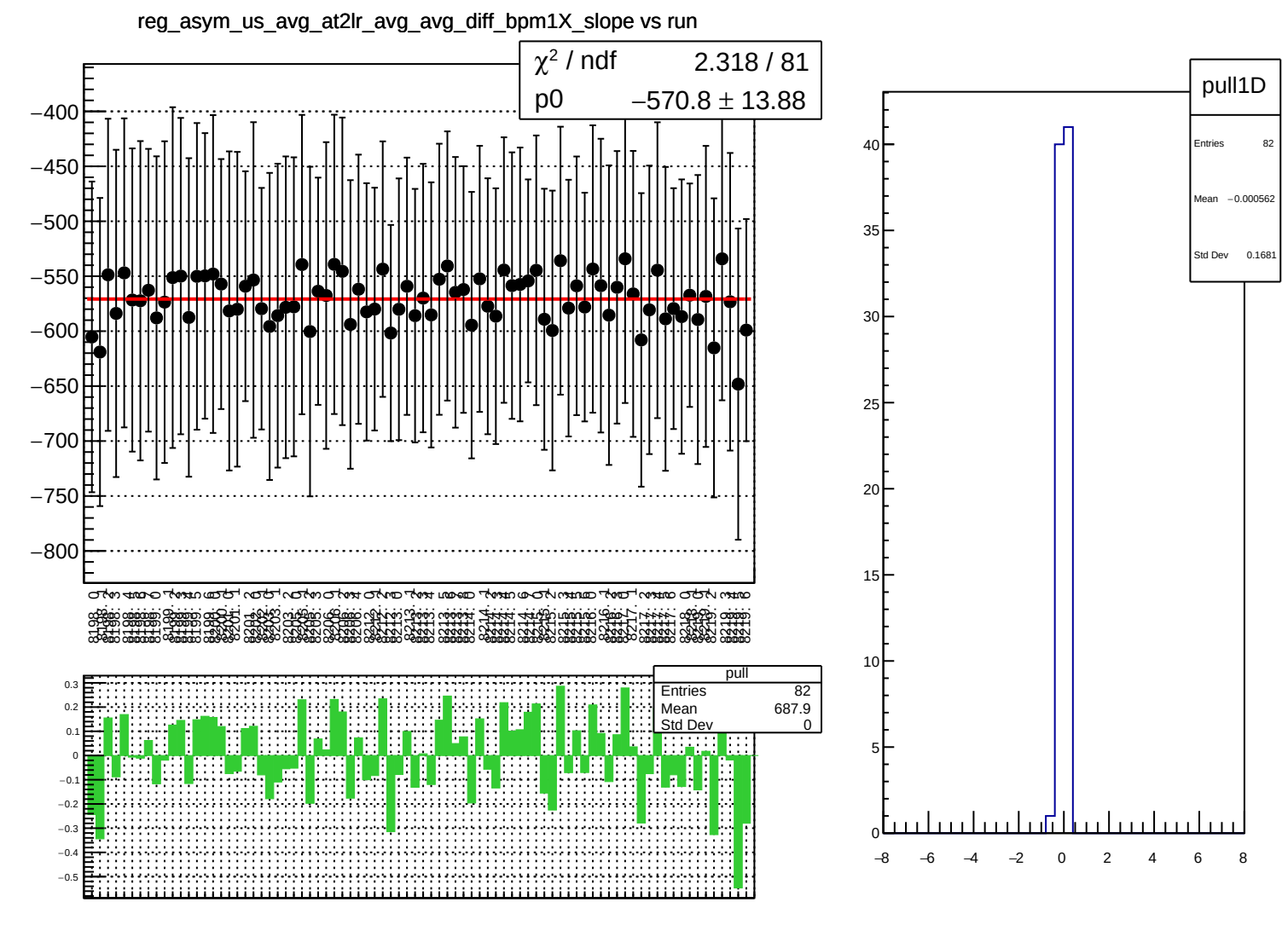

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.24 / 81
p0 21.51 ± 3.227
pull
Entries 82
Mean −1.208e+04
Std Dev 0

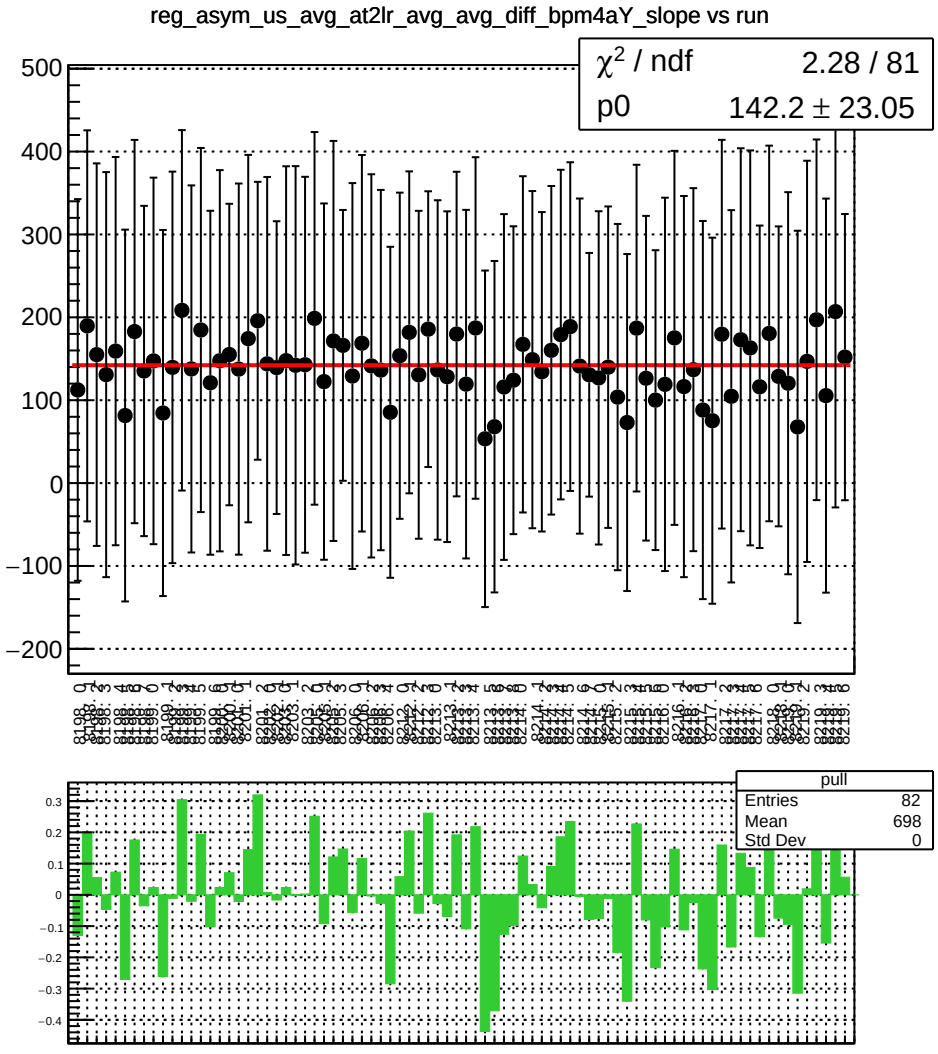

pull1D
Entries 82
Mean 0.0001988
Std Dev 0.8712

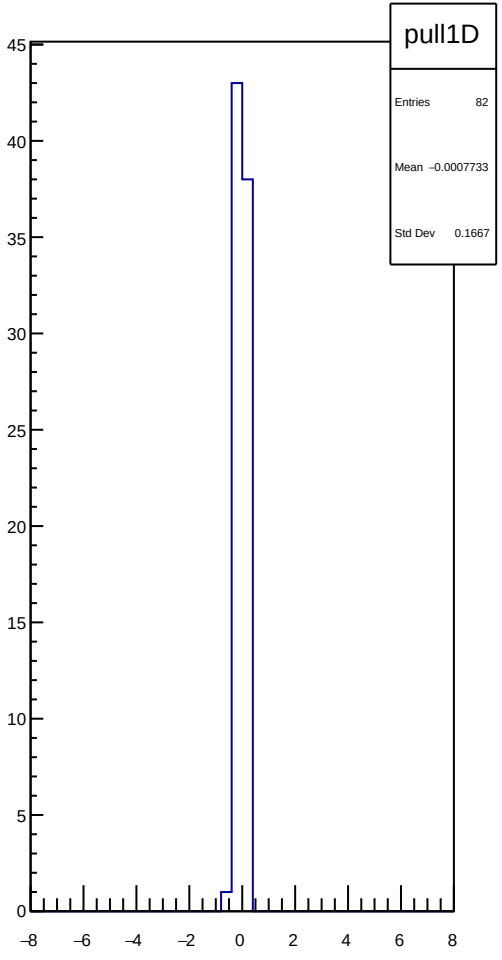

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.76 / 81
p0 51.63 ± 1.953
pull
Entries 82
Mean 273
Std Dev 0
pull1D
Entries 82
Mean 0.03395
Std Dev 0.9795

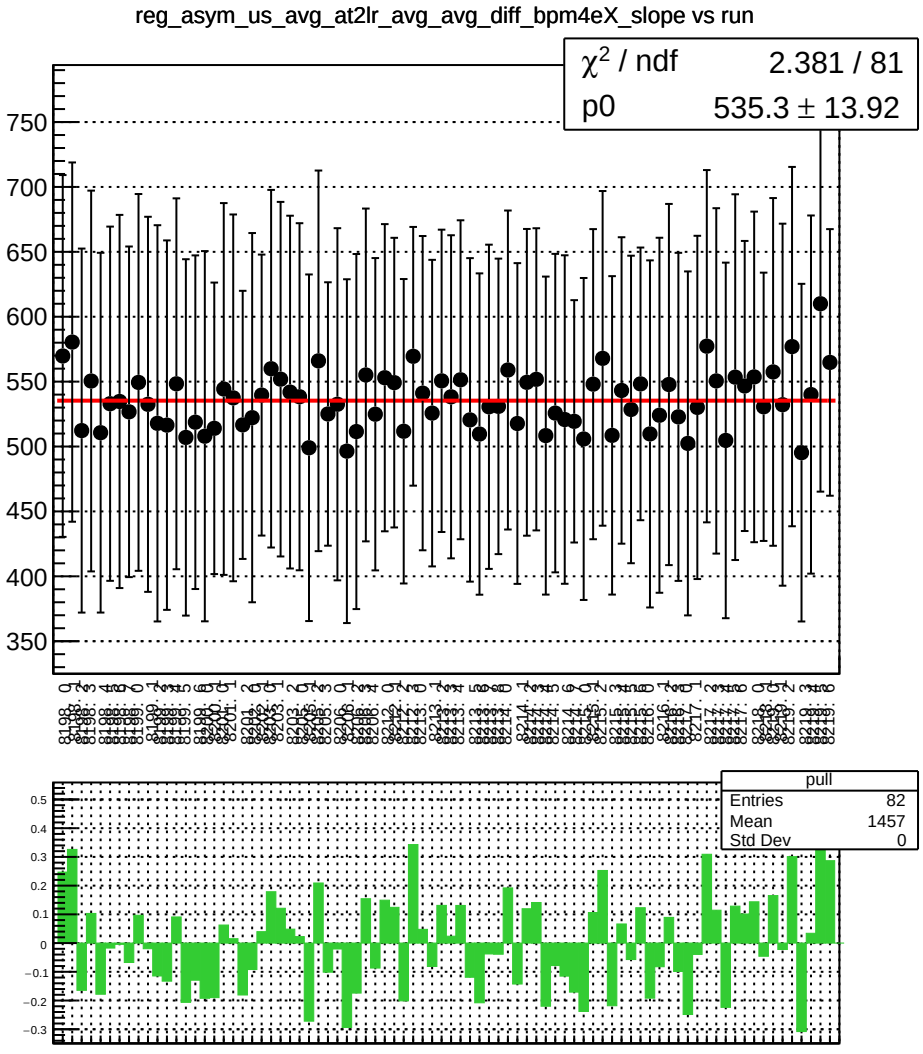

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.04 / 81
p0 −7.145 ± 3.472
100
50
0
−50
−100
pull
Entries 82
Mean 1864
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean 0.002003
Std Dev 0.8837
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

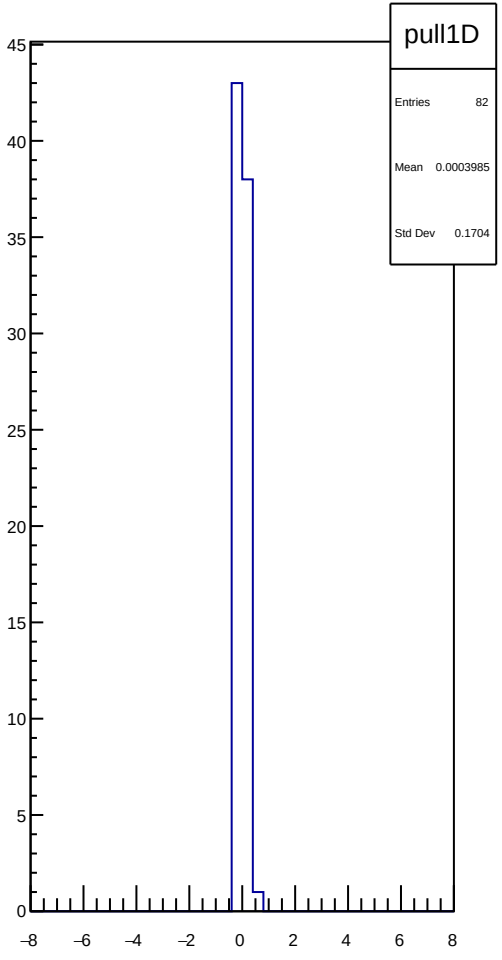

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1052 / 81
p0 −17.39 ± 0.1577
pull
Entries 82
Mean 415.8
Std Dev 0
pull1D
Entries 82
Mean −0.1635
Std Dev 3.578

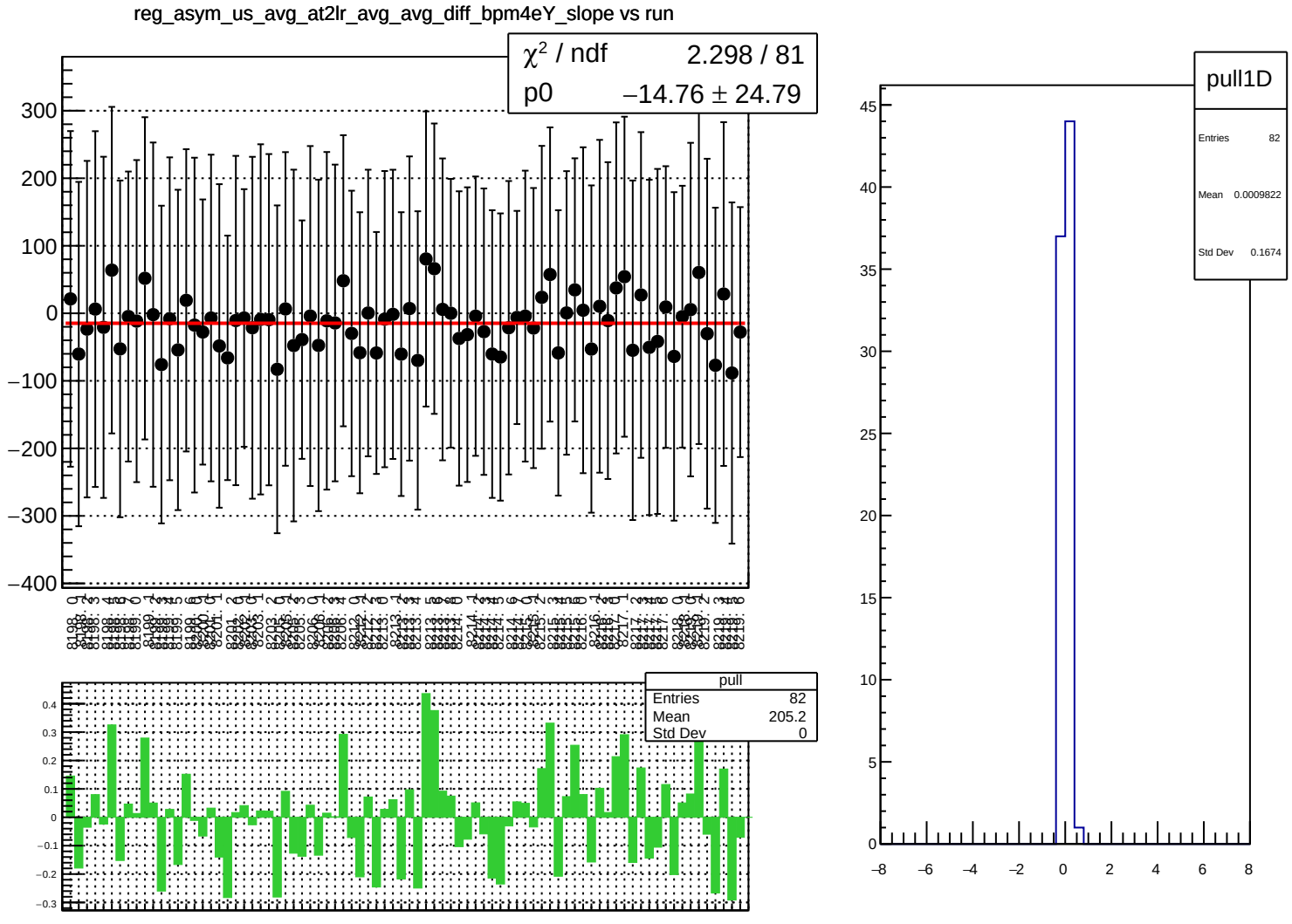

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 2.318 / 81
p0 −570.8 ± 13.88
pull
Entries 82
Mean 687.9
Std Dev 0
pull1D
Entries 82
Mean −0.000562
Std Dev 0.1681

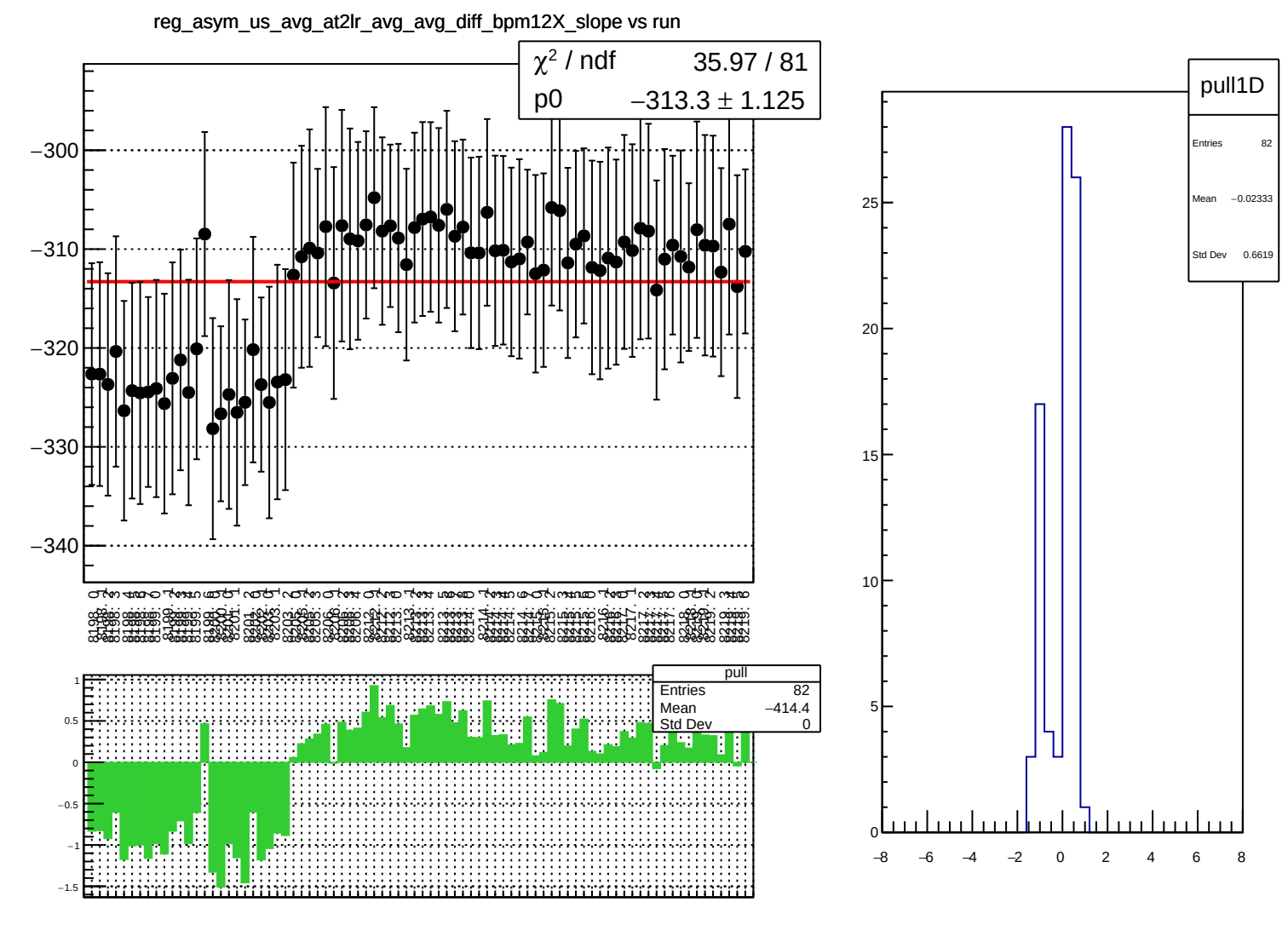

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.28 / 81
p0 142.2 ± 23.05
pull
Entries 82
Mean 698
Std Dev 0

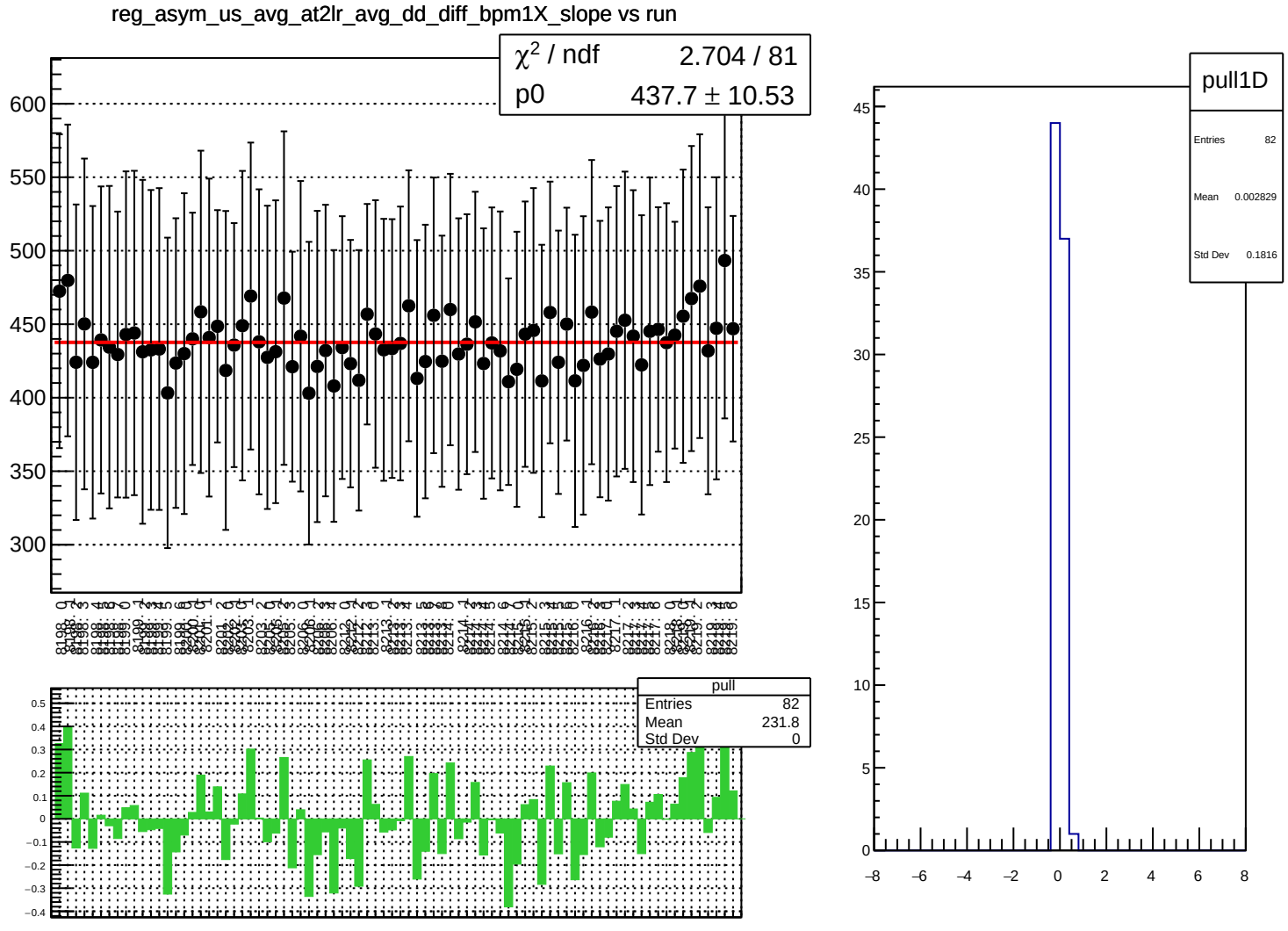

pull1D
Entries 82
Mean −0.0007733
Std Dev 0.1667

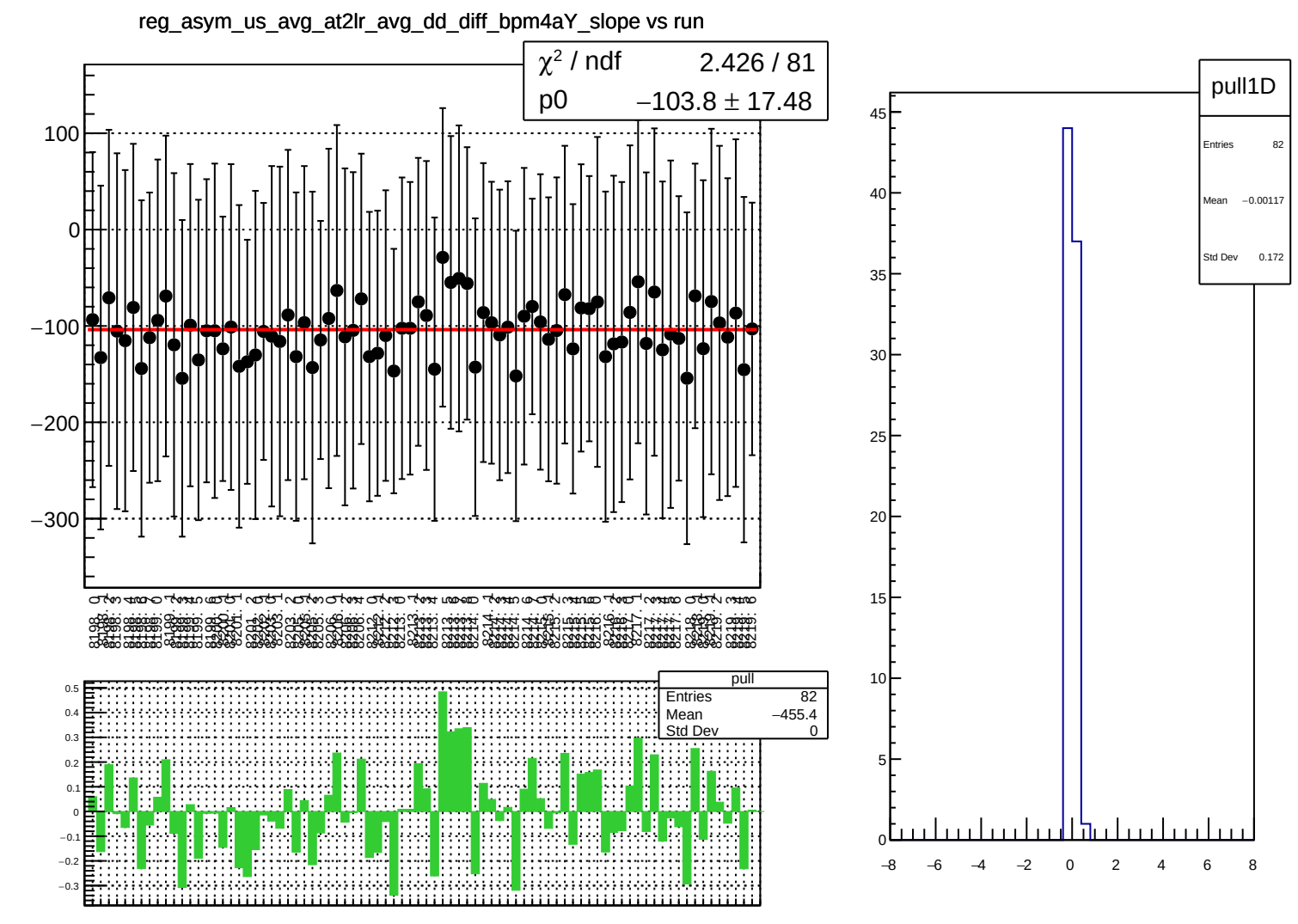

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.381 / 81
p0 535.3 ± 13.92
pull
Entries 82
Mean 1457
Std Dev 0

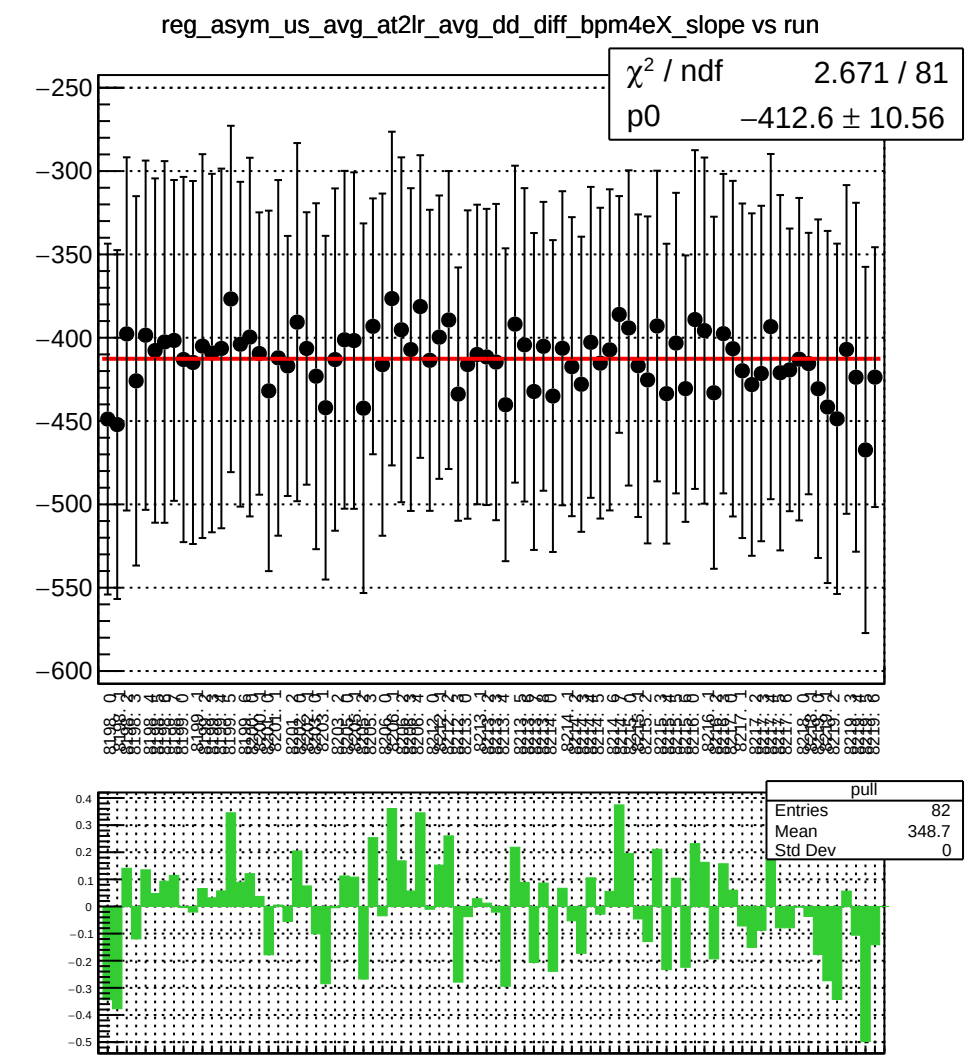

pull1D
Entries 82
Mean 0.0003985
Std Dev 0.1704

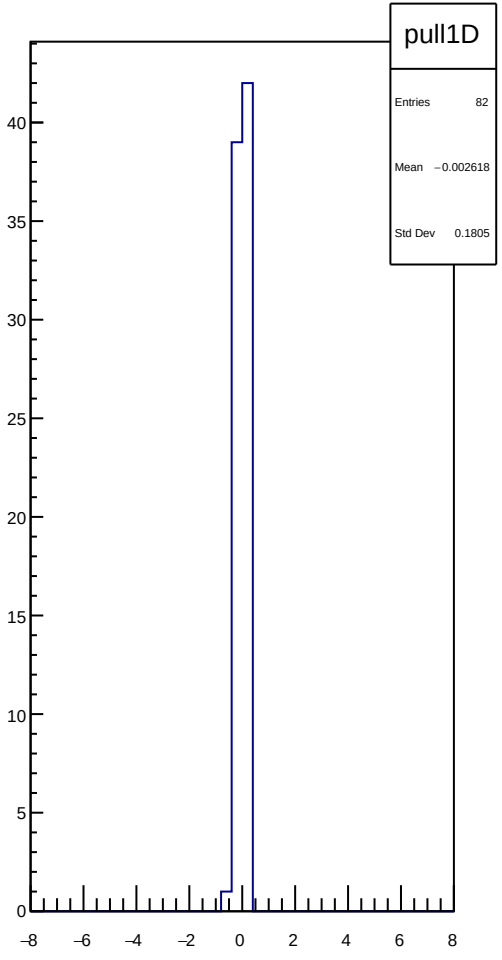

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.298 / 81
p0 −14.76 ± 24.79
pull
Entries 82
Mean 205.2
Std Dev 0
pull1D
Entries 82
Mean 0.0009822
Std Dev 0.1674

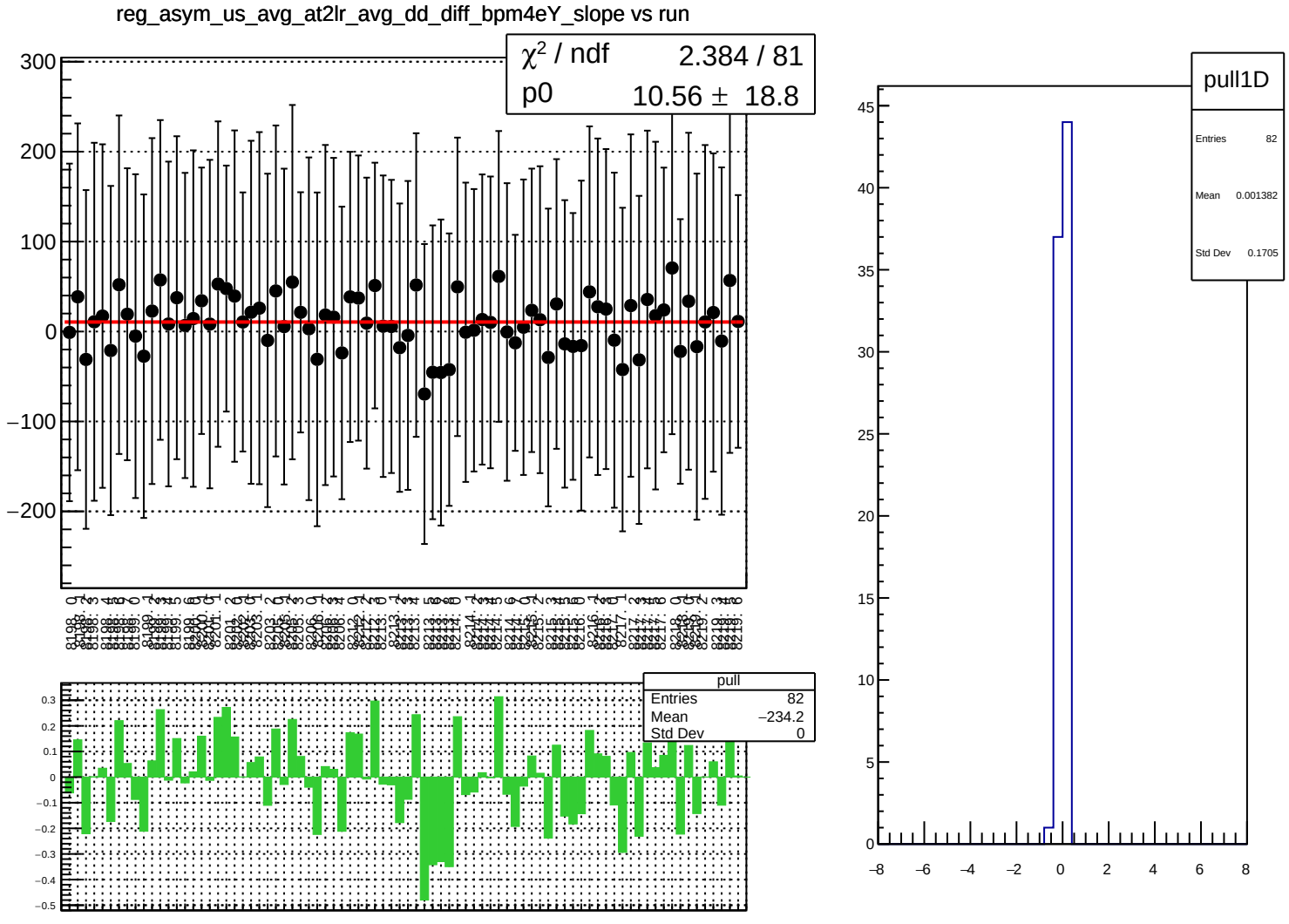

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 35.97 / 81
p0 −313.3 ± 1.125
−300
−310
−320
−330
−340
pull
Entries 82
Mean −414.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.02333
Std Dev 0.6619
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

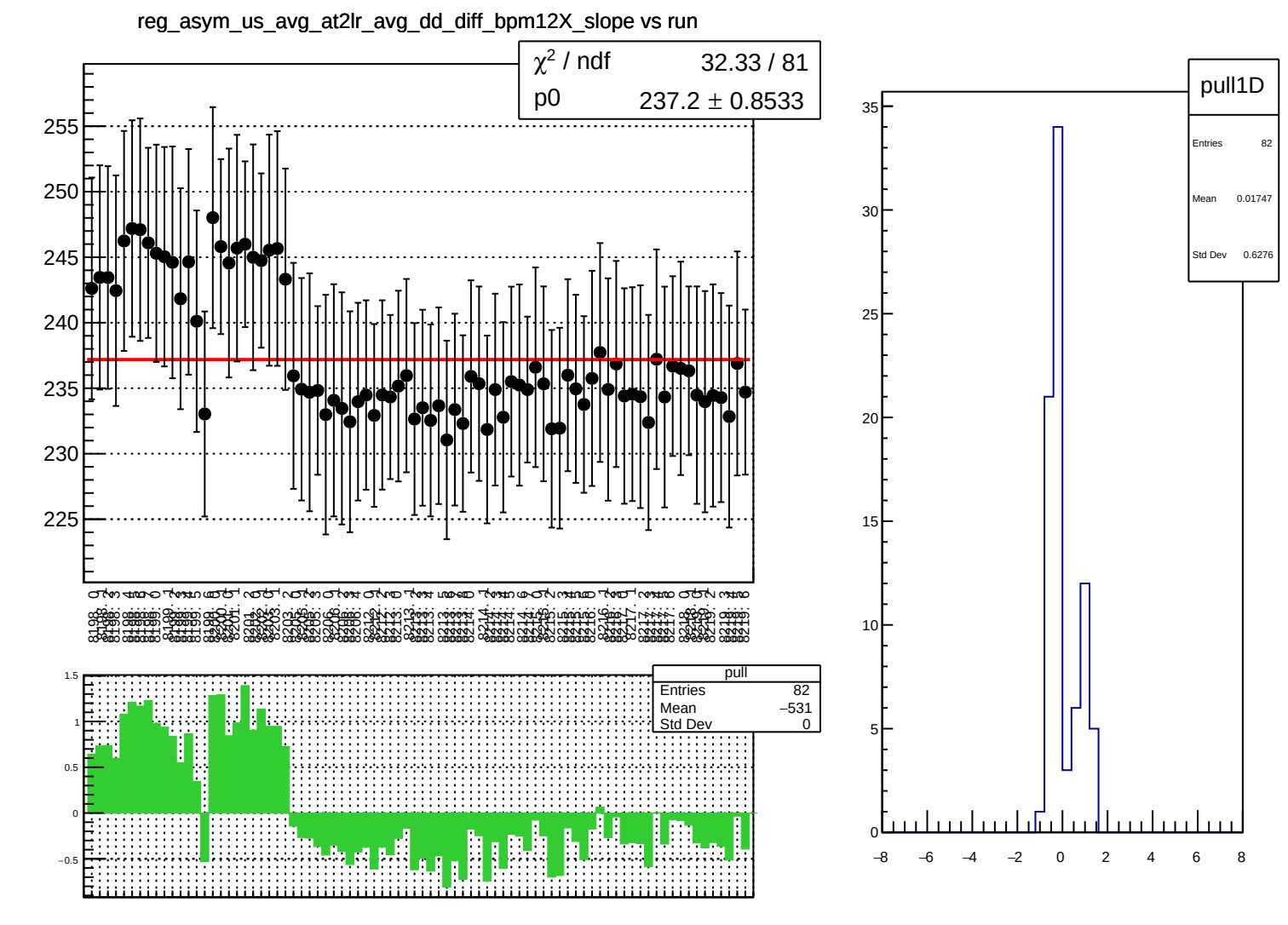

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 2.704 / 81
p0 437.7 ± 10.53
pull
Entries 82
Mean 231.8
Std Dev 0
pull1D
Entries 82
Mean 0.002829
Std Dev 0.1816

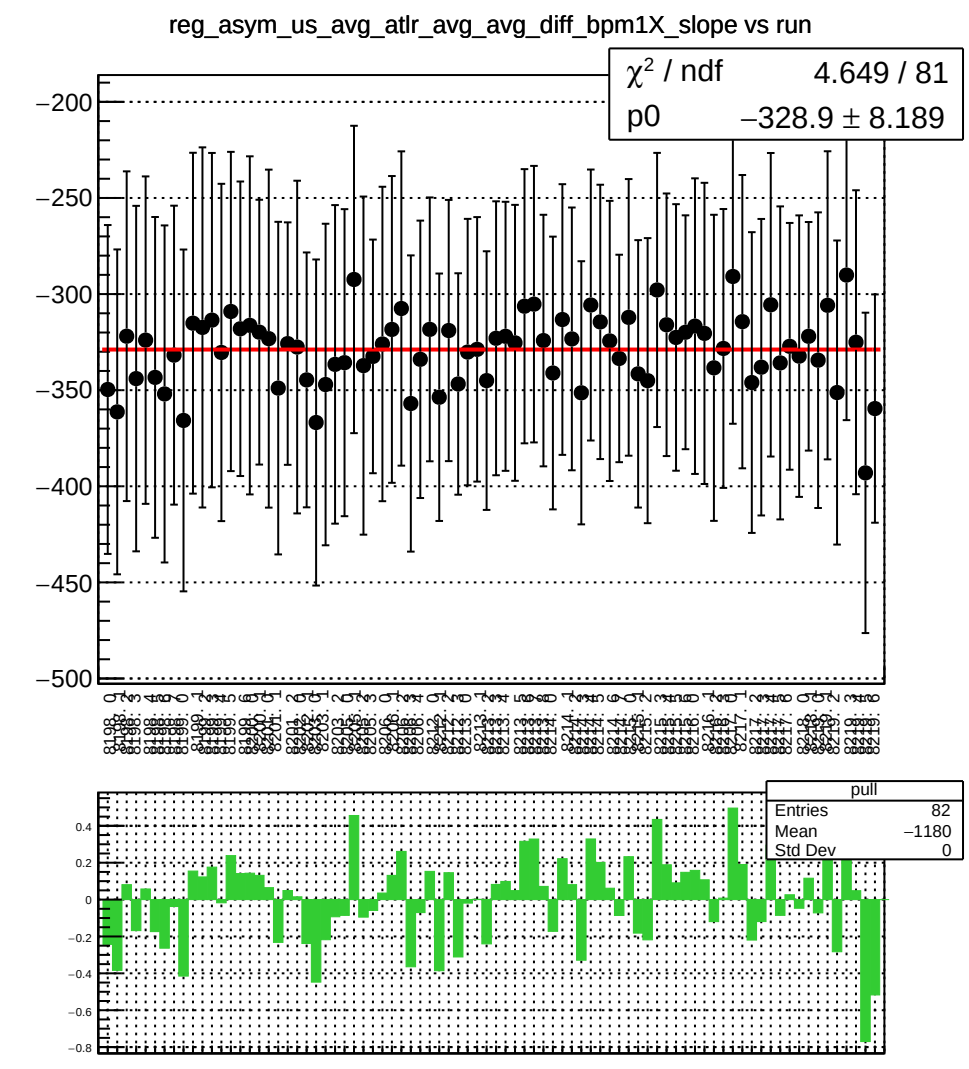

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.426 / 81
p0 −103.8 ± 17.48
100
0
−100
−200
−300
pull
Entries 82
Mean −455.4
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 82
Mean −0.00117
Std Dev 0.172
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

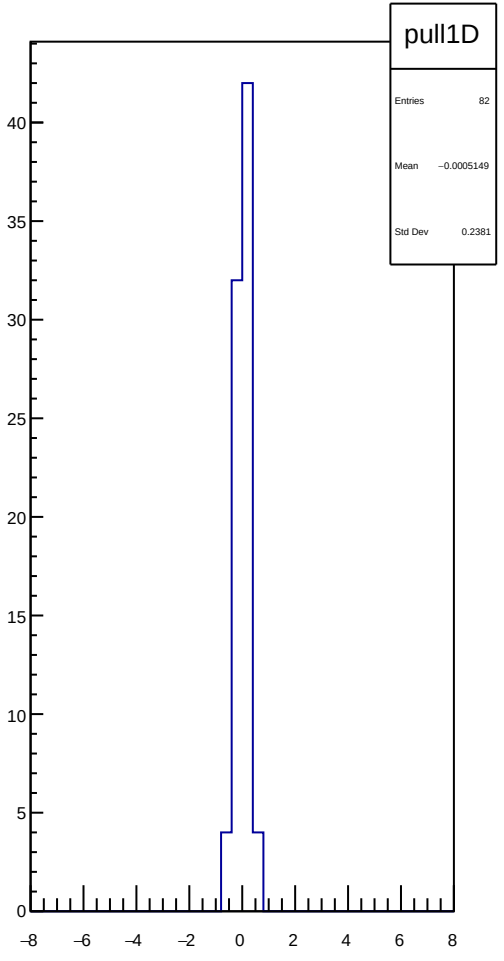

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.671 / 81
p0 −412.6 ± 10.56
pull
Entries 82
Mean 348.7
Std Dev 0

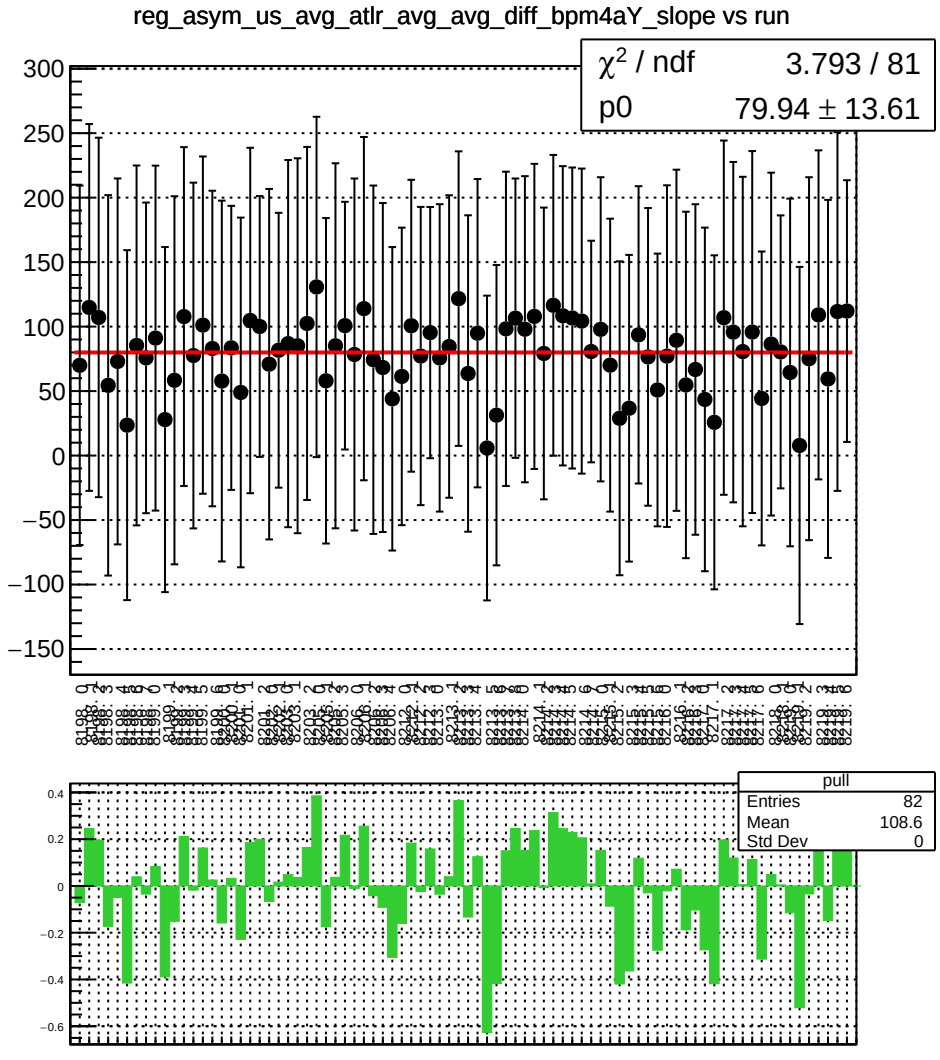

pull1D
Entries 82
Mean −0.002618
Std Dev 0.1805

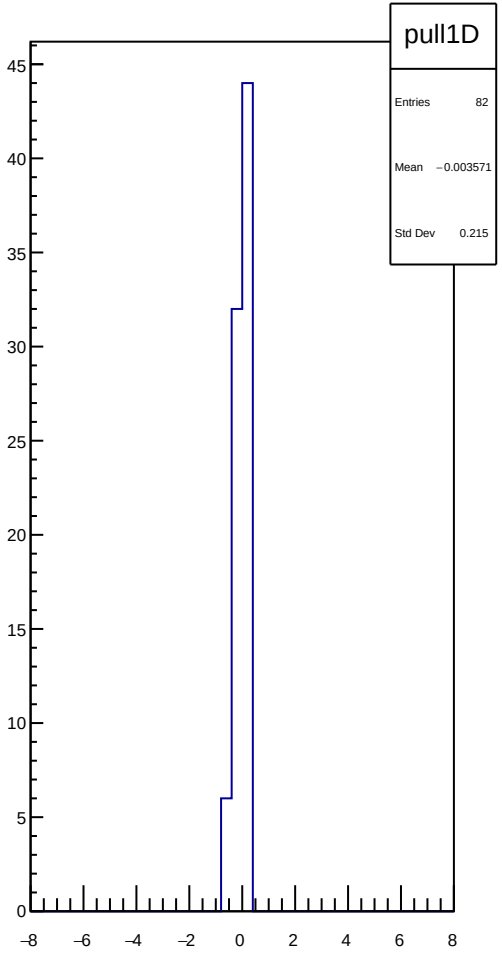

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.384 / 81
p0 10.56 ± 18.8
pull
Entries 82
Mean −234.2
Std Dev 0
pull1D
Entries 82
Mean 0.001382
Std Dev 0.1705

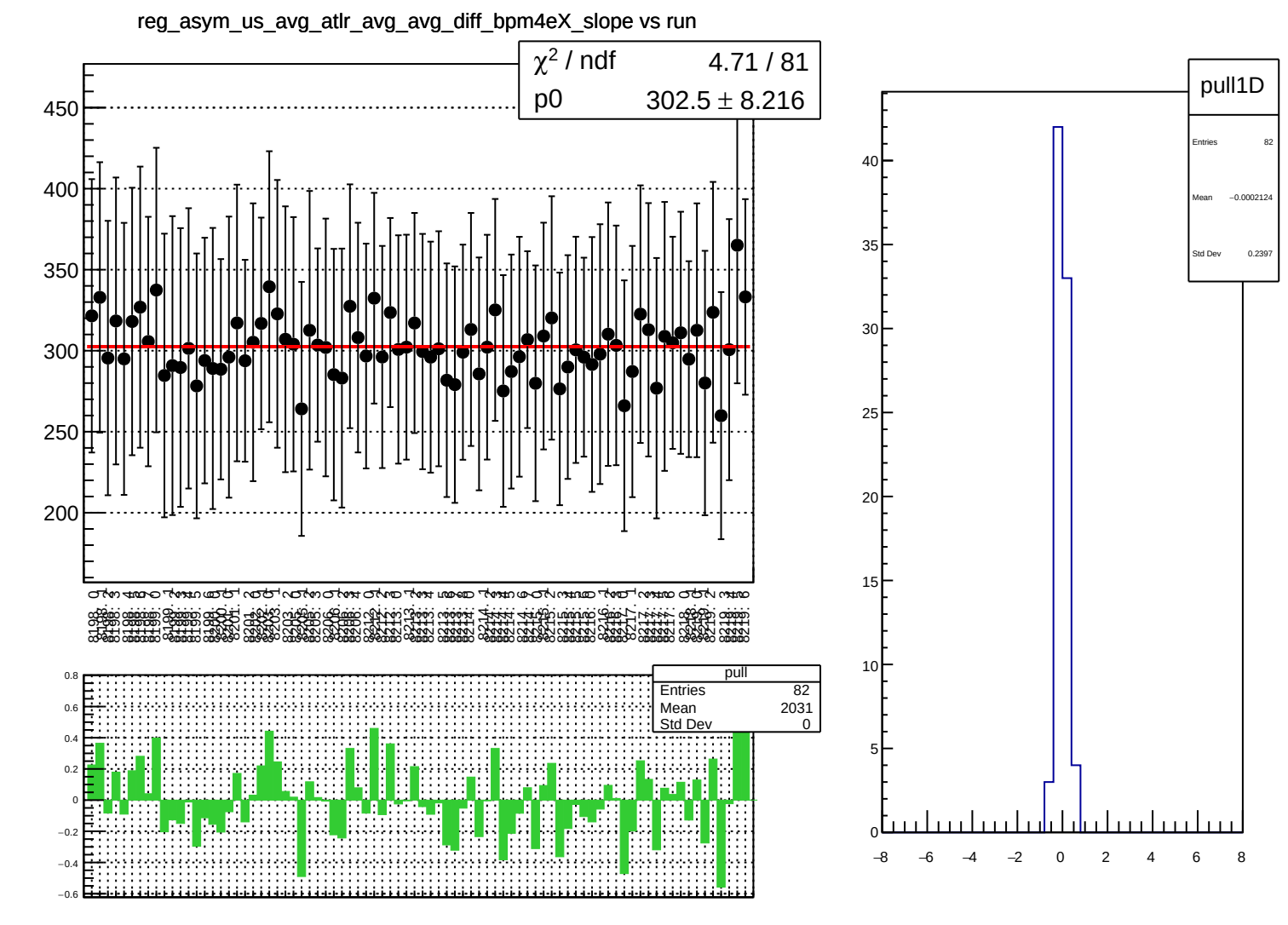

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 32.33 / 81
p0 237.2 ± 0.8533
255
250
245
240
235
230
225
pull
Entries 82
Mean −531
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 82
Mean 0.01747
Std Dev 0.6276
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

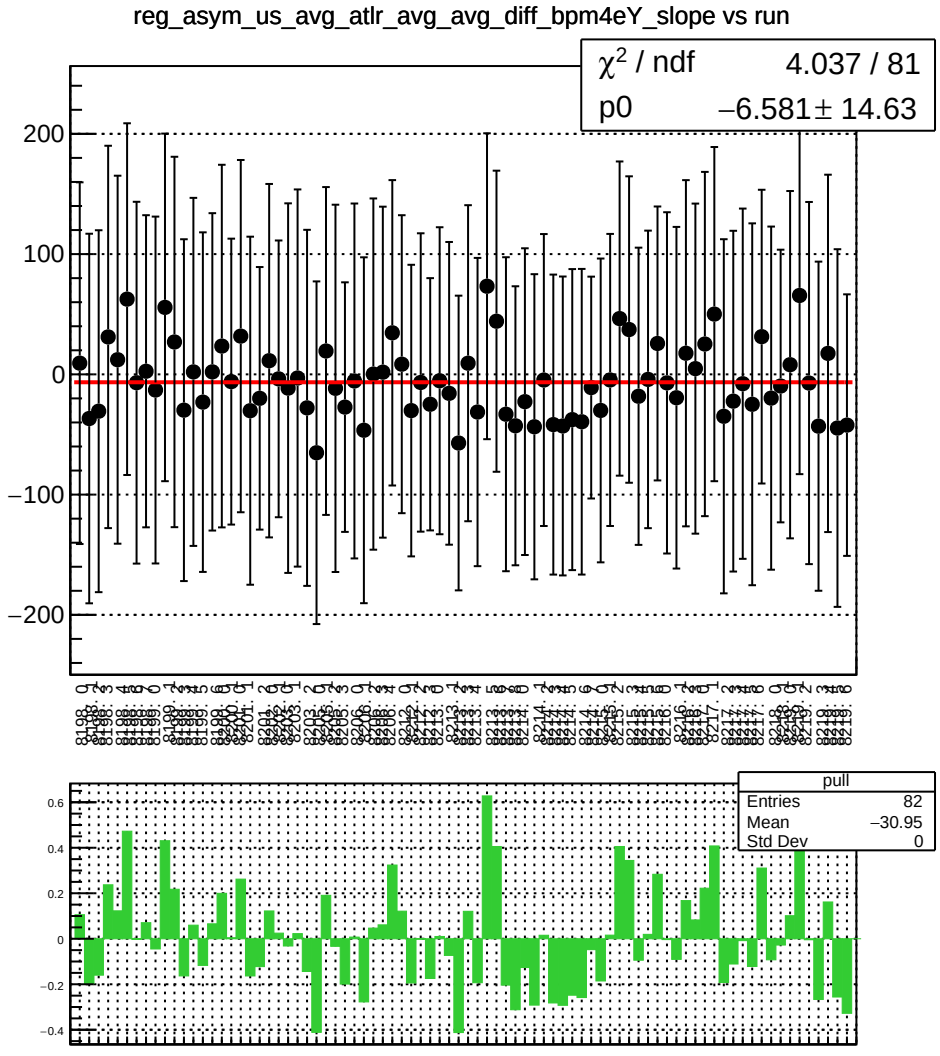

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.649 / 81
p0 −328.9 ± 8.189
pull
Entries 82
Mean −1180
Std Dev 0

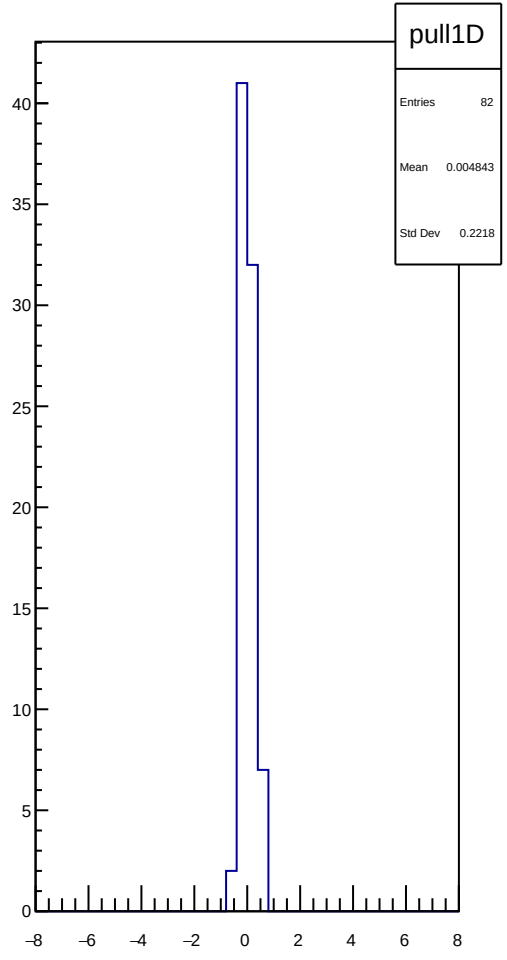

pull1D
Entries 82
Mean −0.0005149
Std Dev 0.2381

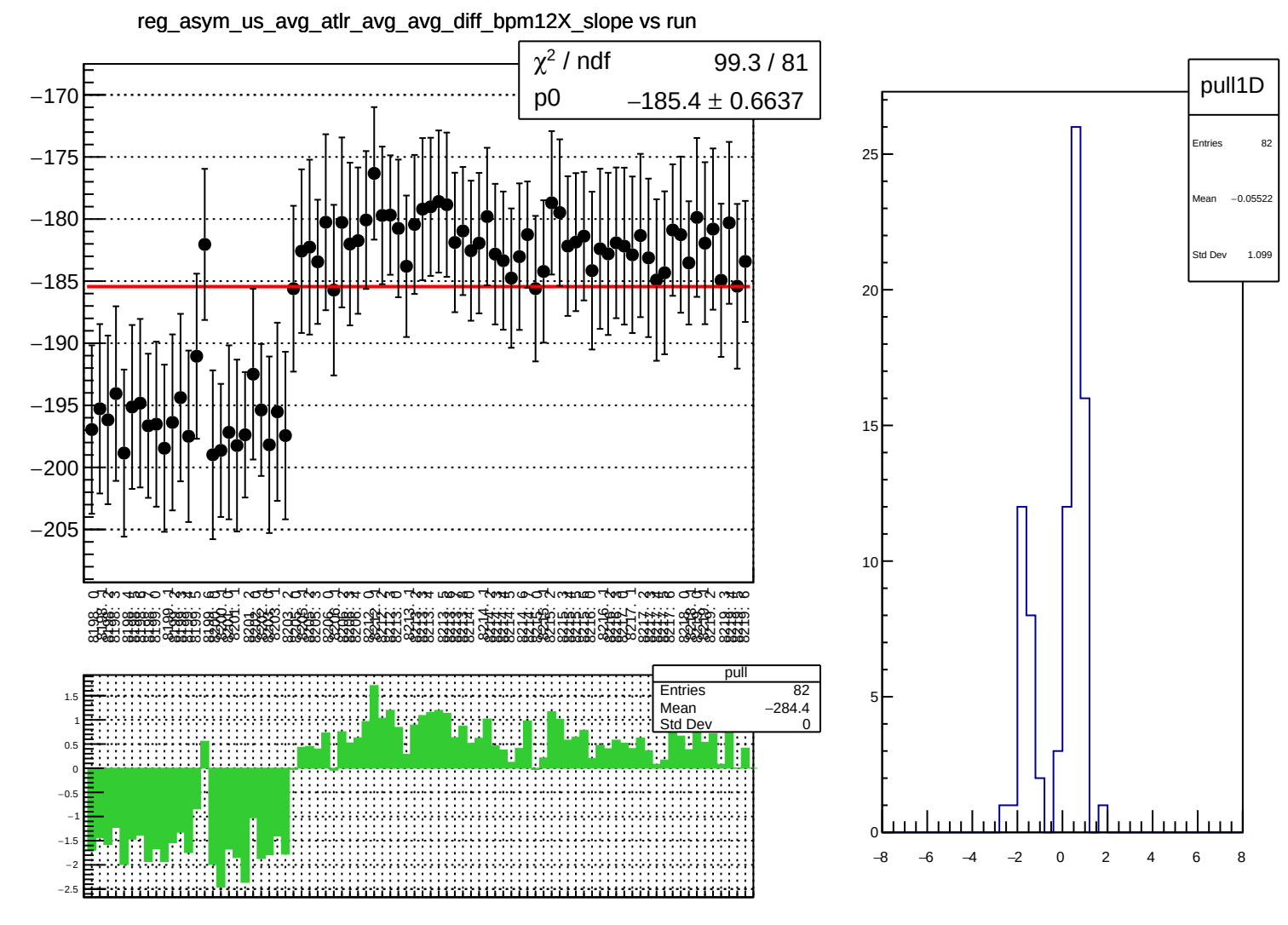

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.793 / 81
p0 79.94 ± 13.61
pull
Entries 82
Mean 108.6
Std Dev 0

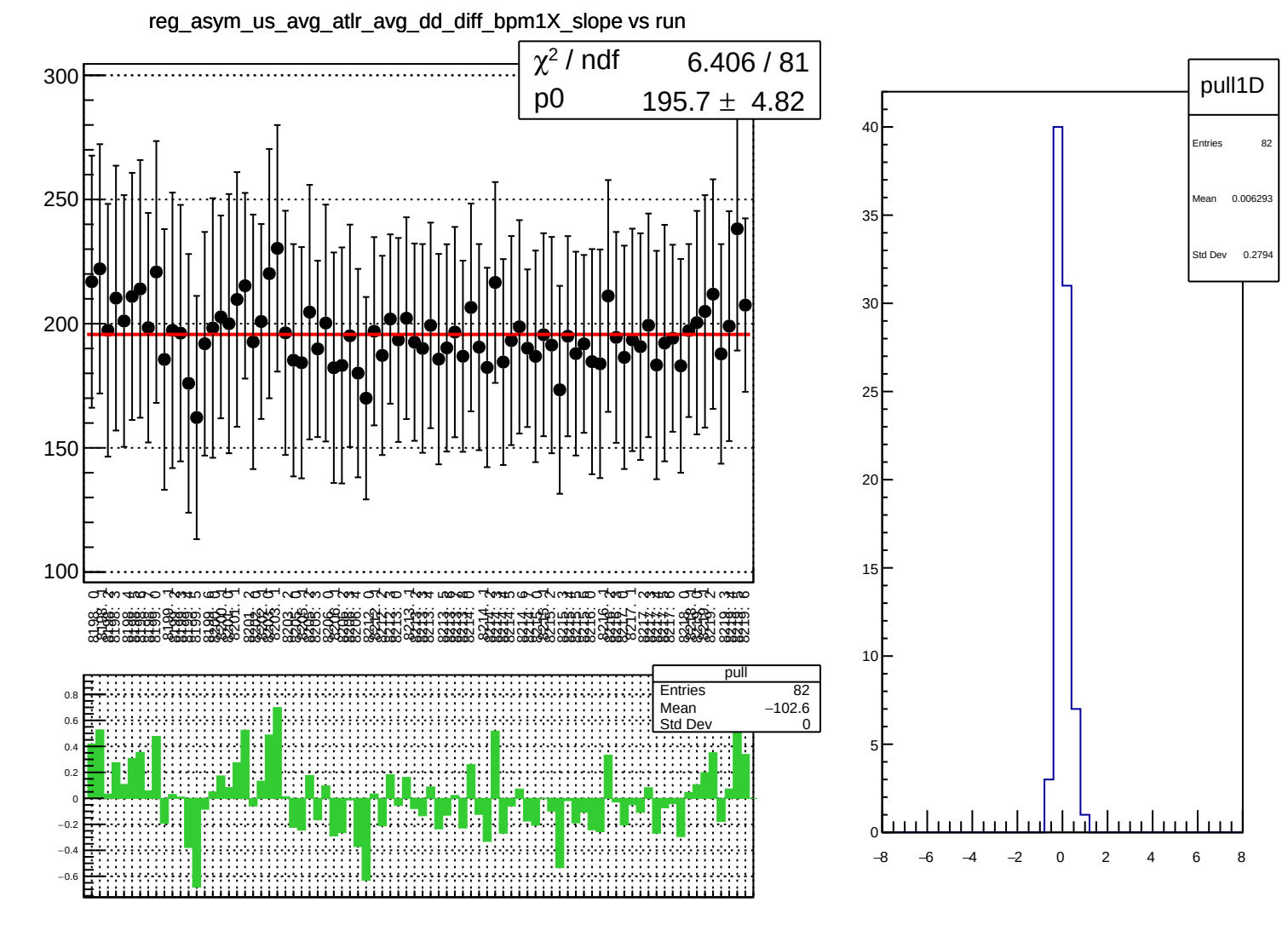

pull1D
Entries 82
Mean −0.003571
Std Dev 0.215

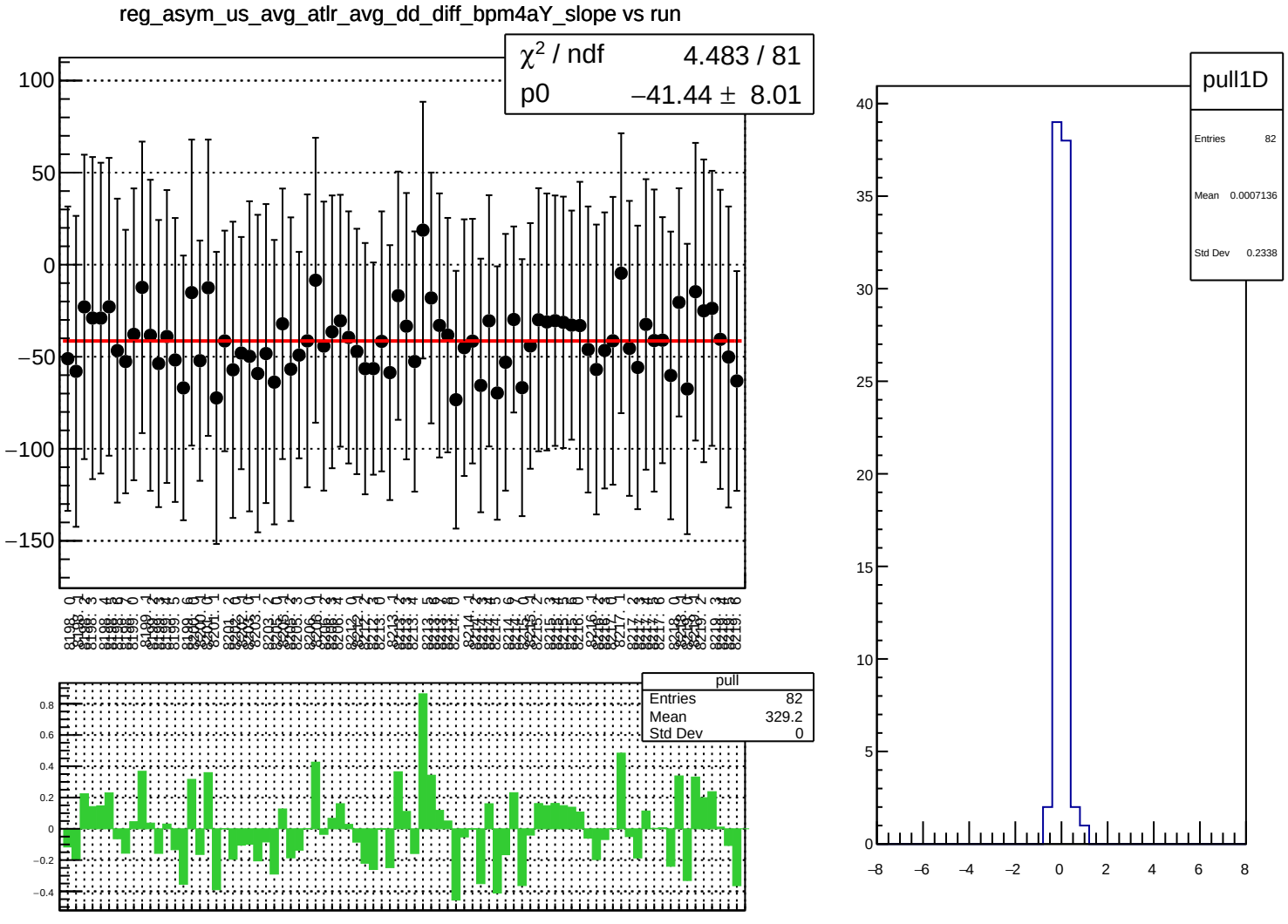

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.71 / 81
p0 302.5 ± 8.216
pull
Entries 82
Mean 2031
Std Dev 0
pull1D
Entries 82
Mean −0.0002124
Std Dev 0.2397

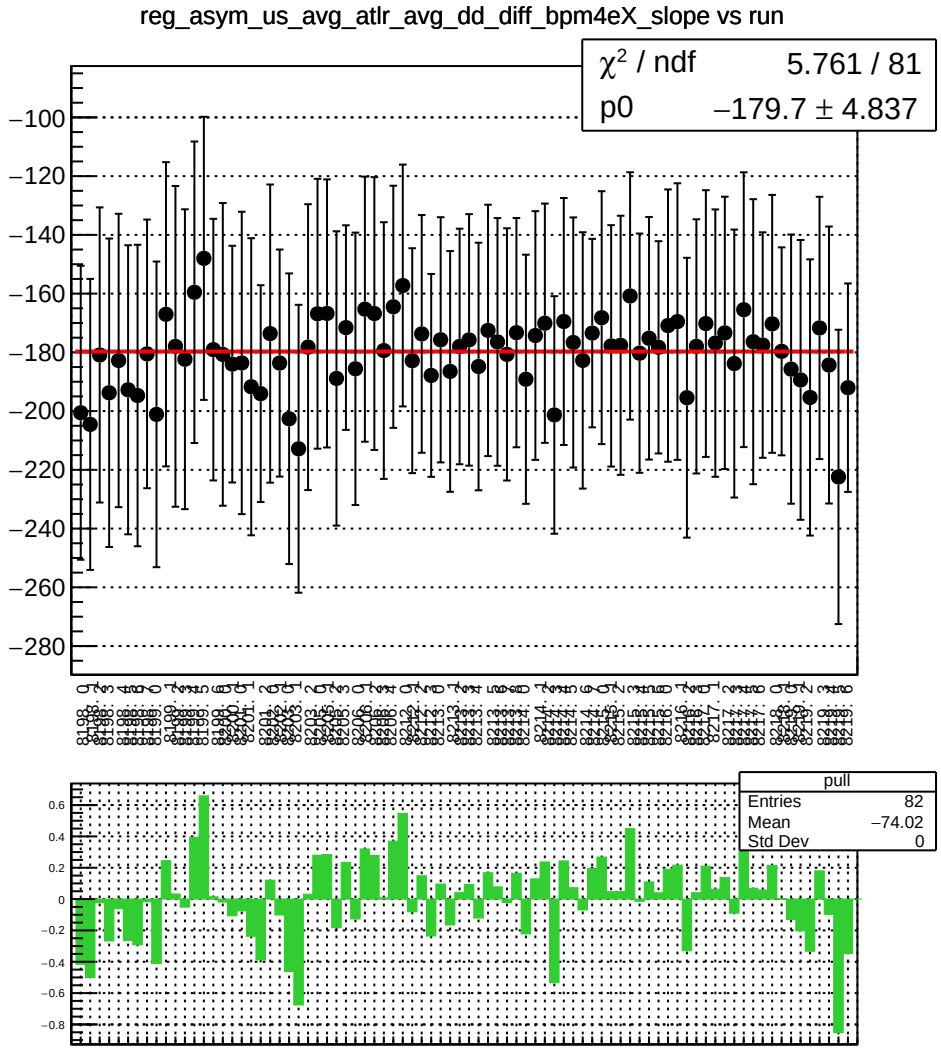

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.037 / 81
p0 −6.581 ± 14.63
200
100
0
−100
−200
pull
Entries 82
Mean −30.95
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

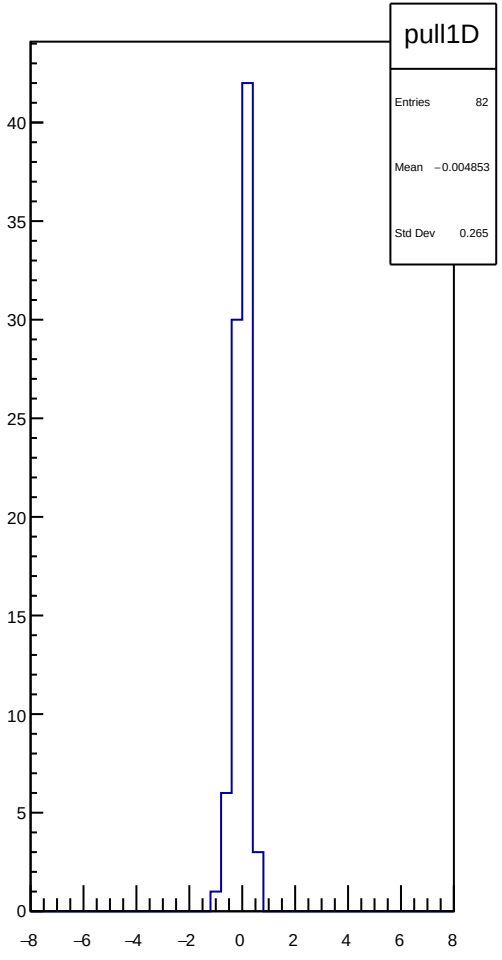

pull1D
Entries 82
Mean 0.004843
Std Dev 0.2218
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

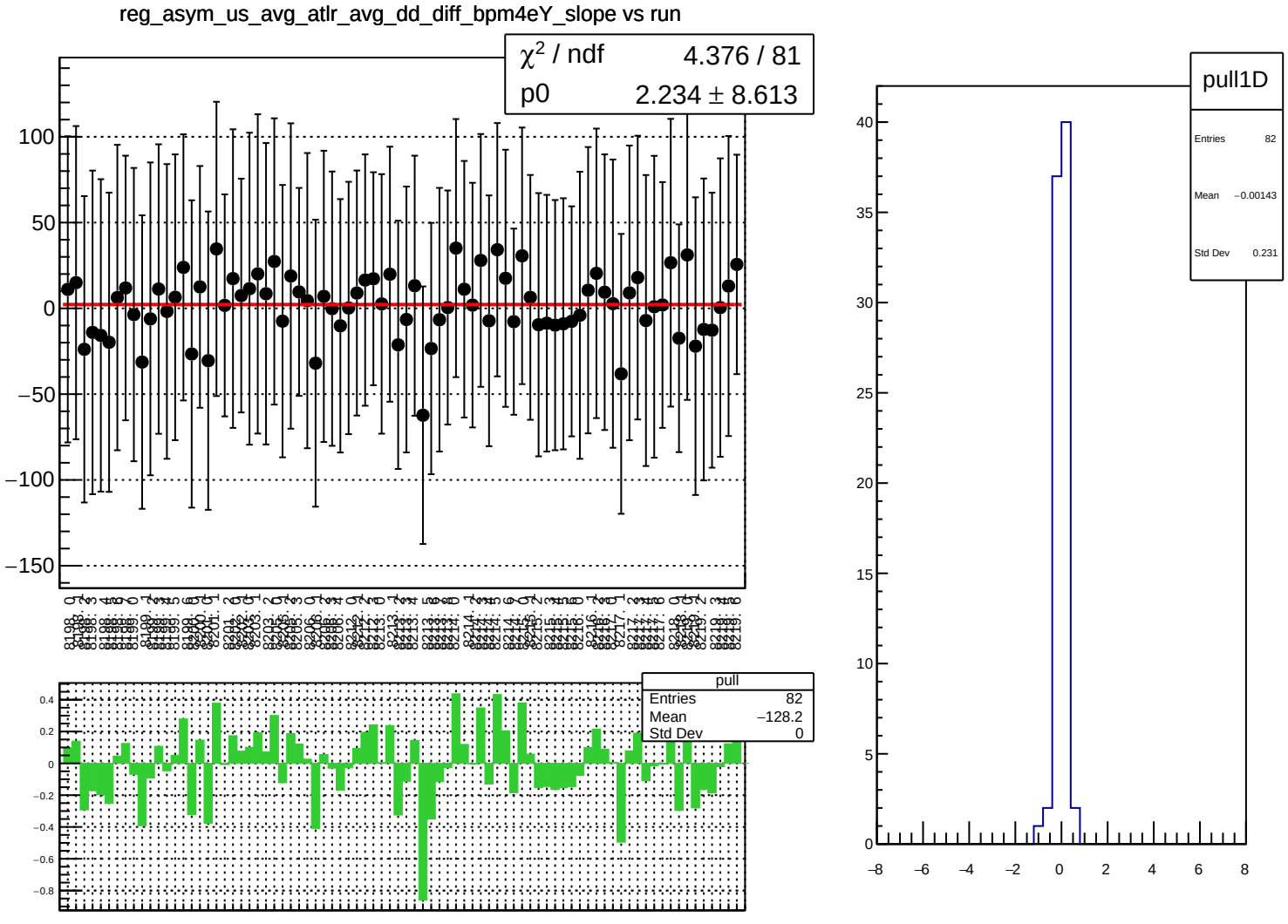

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 99.3 / 81
p0 −185.4 ± 0.6637
pull
Entries 82
Mean −284.4
Std Dev 0
pull1D
Entries 82
Mean −0.05522
Std Dev 1.099

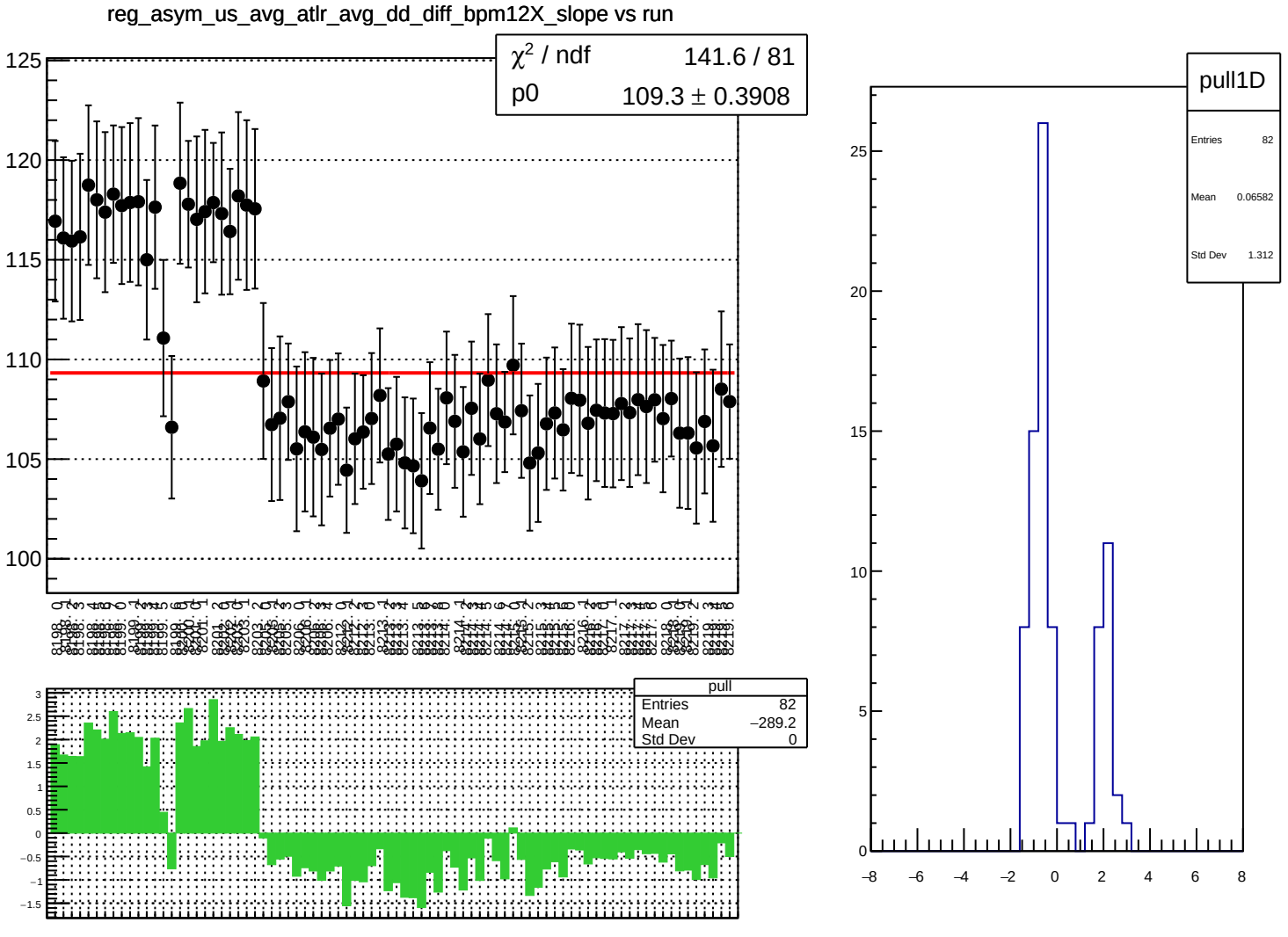

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 6.406 / 81
p0 195.7 ± 4.82
300
250
200
150
100
pull
Entries 82
Mean −102.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean 0.006293
Std Dev 0.2794
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

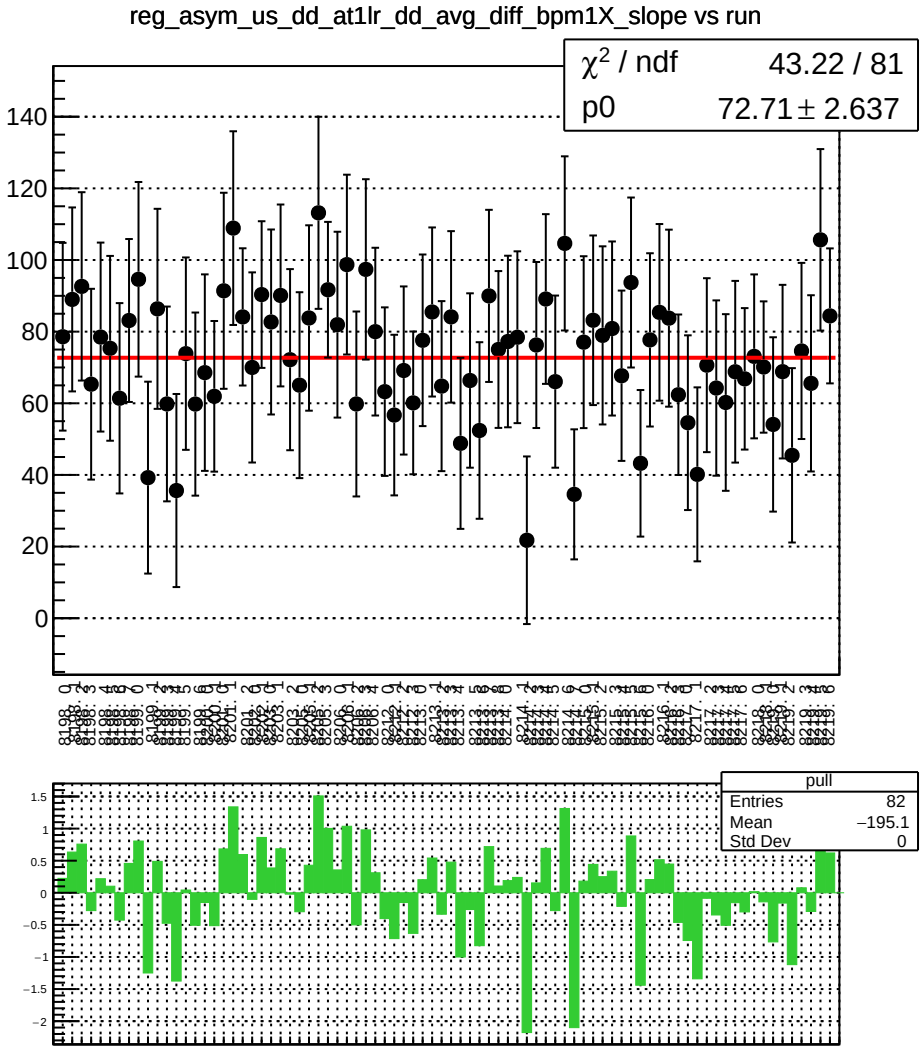

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.483 / 81
p0 −41.44 ± 8.01
pull
Entries 82
Mean 329.2
Std Dev 0
pull1D
Entries 82
Mean 0.0007136
Std Dev 0.2338

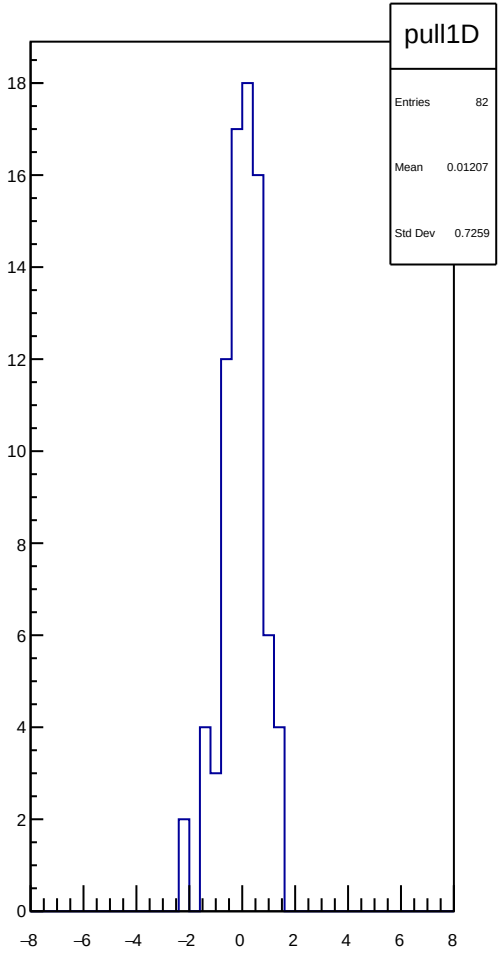

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.761 / 81
p0 −179.7 ± 4.837
pull
Entries 82
Mean −74.02
Std Dev 0

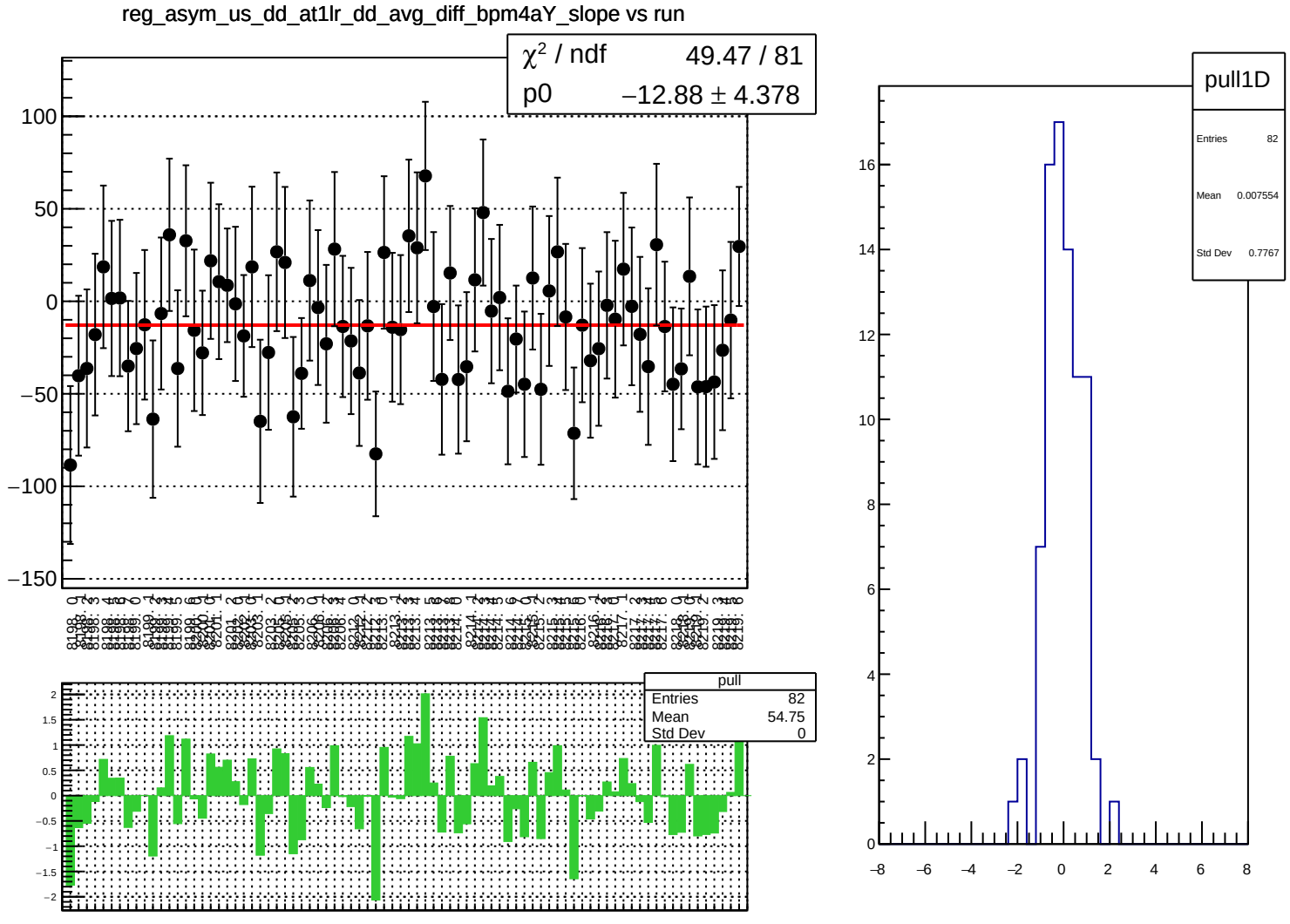

pull1D
Entries 82
Mean −0.004853
Std Dev 0.265

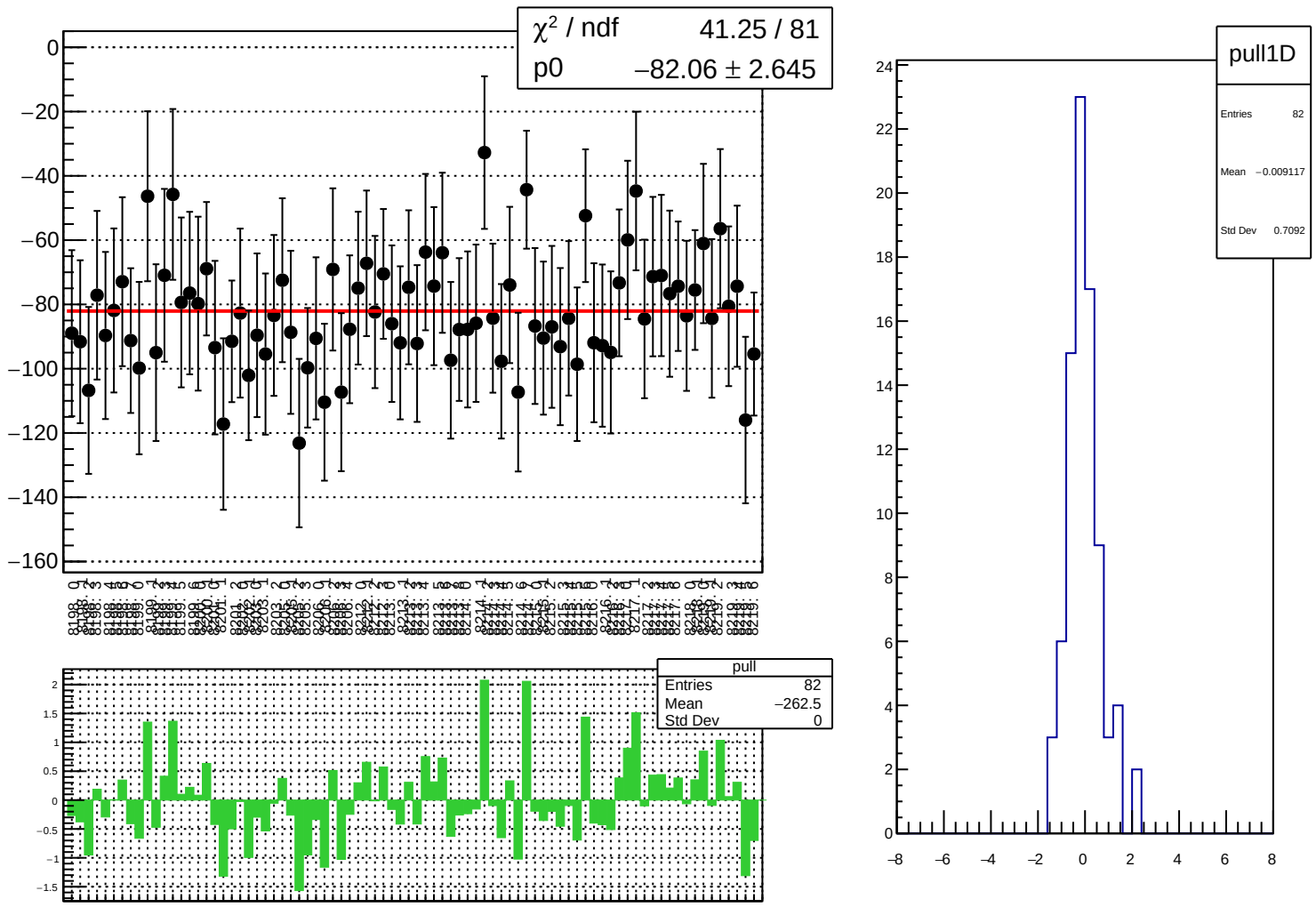

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.376 / 81
p0 2.234 ± 8.613
pull
Entries 82
Mean −128.2
Std Dev 0
pull1D
Entries 82
Mean −0.00143
Std Dev 0.231

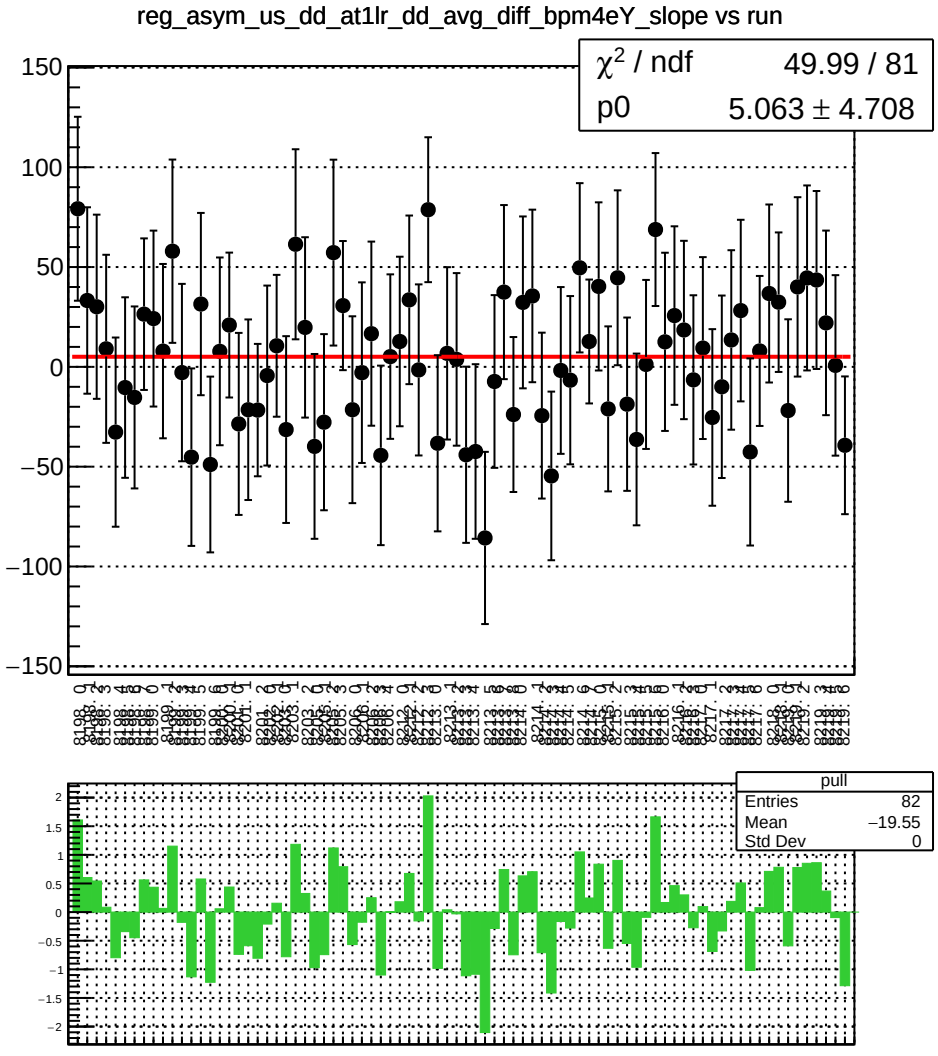

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 141.6 / 81
p0 109.3 ± 0.3908
pull
Entries 82
Mean −289.2
Std Dev 0
pull1D
Entries 82
Mean 0.06582
Std Dev 1.312

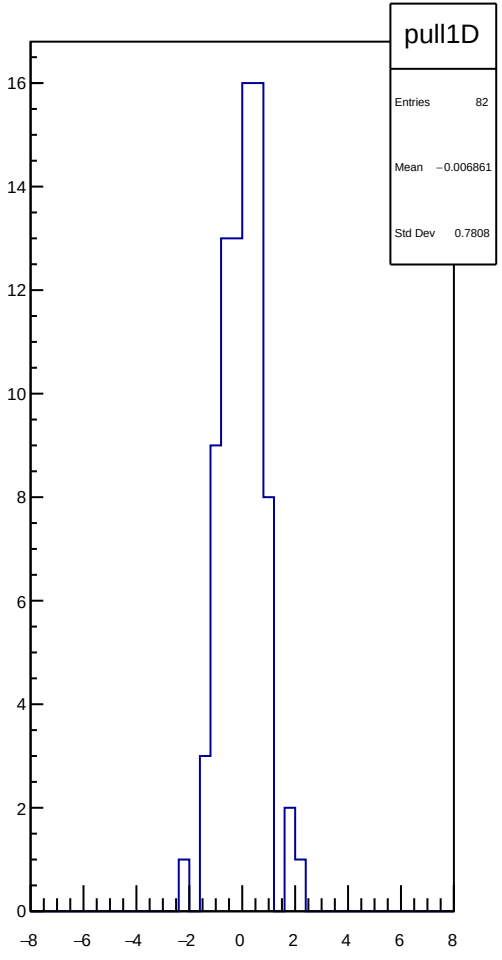

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 43.22 / 81
p0 72.71 ± 2.637
pull
Entries 82
Mean −195.1
Std Dev 0

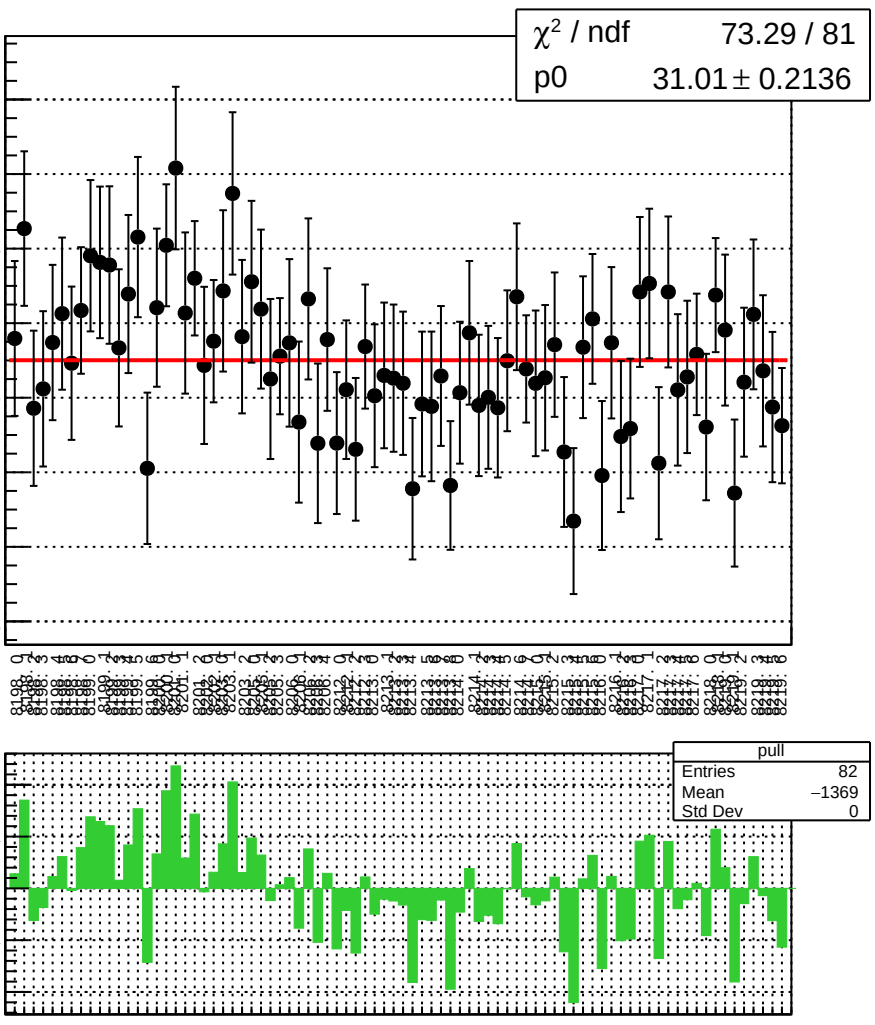

pull1D
Entries 82
Mean 0.01207
Std Dev 0.7259

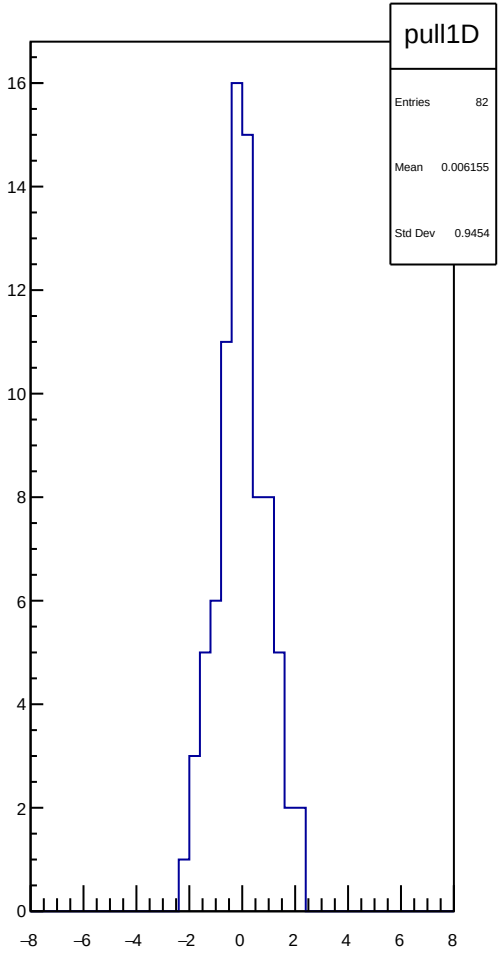

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.47 / 81
p0 −12.88 ± 4.378
pull
Entries 82
Mean 54.75
Std Dev 0
pull1D
Entries 82
Mean 0.007554
Std Dev 0.7767

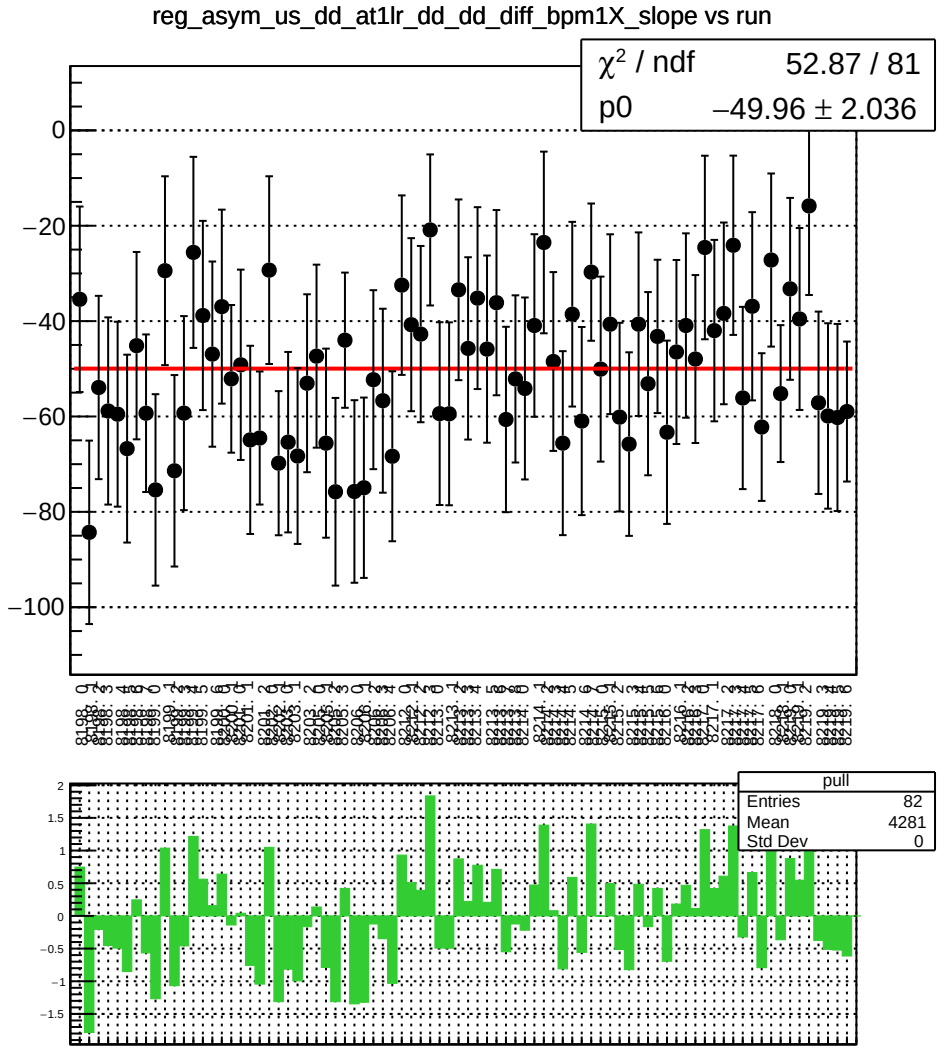

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.25 / 81
p0 −82.06 ± 2.645
pull
Entries 82
Mean −262.5
Std Dev 0
pull1D
Entries 82
Mean −0.009117
Std Dev 0.7092

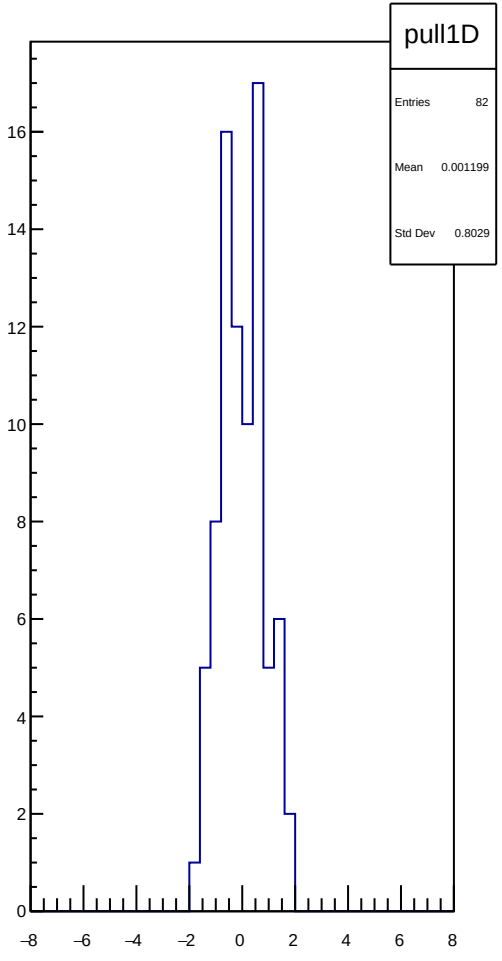

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.99 / 81
p0 5.063 ± 4.708
pull
Entries 82
Mean −19.55
Std Dev 0

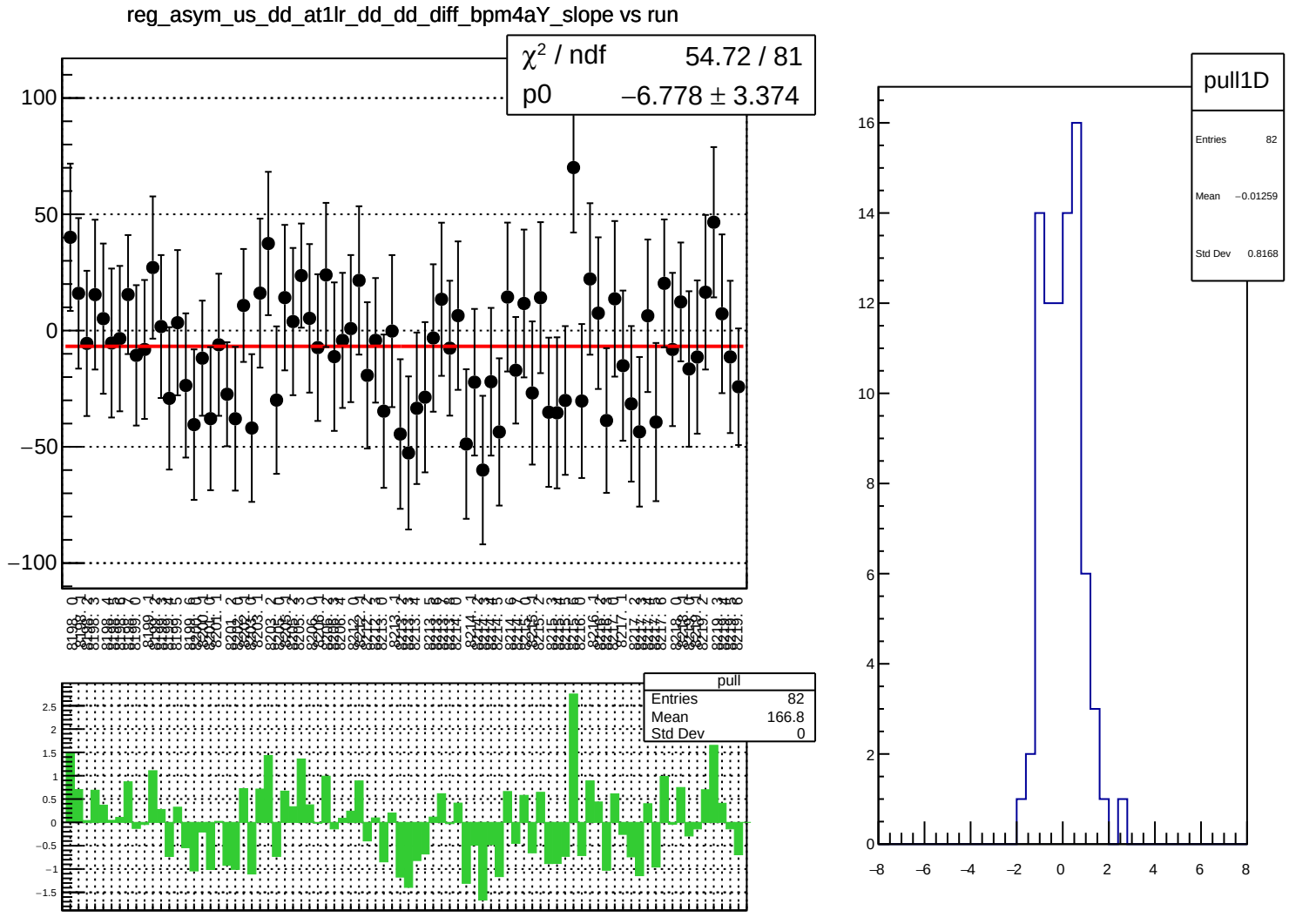

pull1D
Entries 82
Mean −0.006861
Std Dev 0.7808

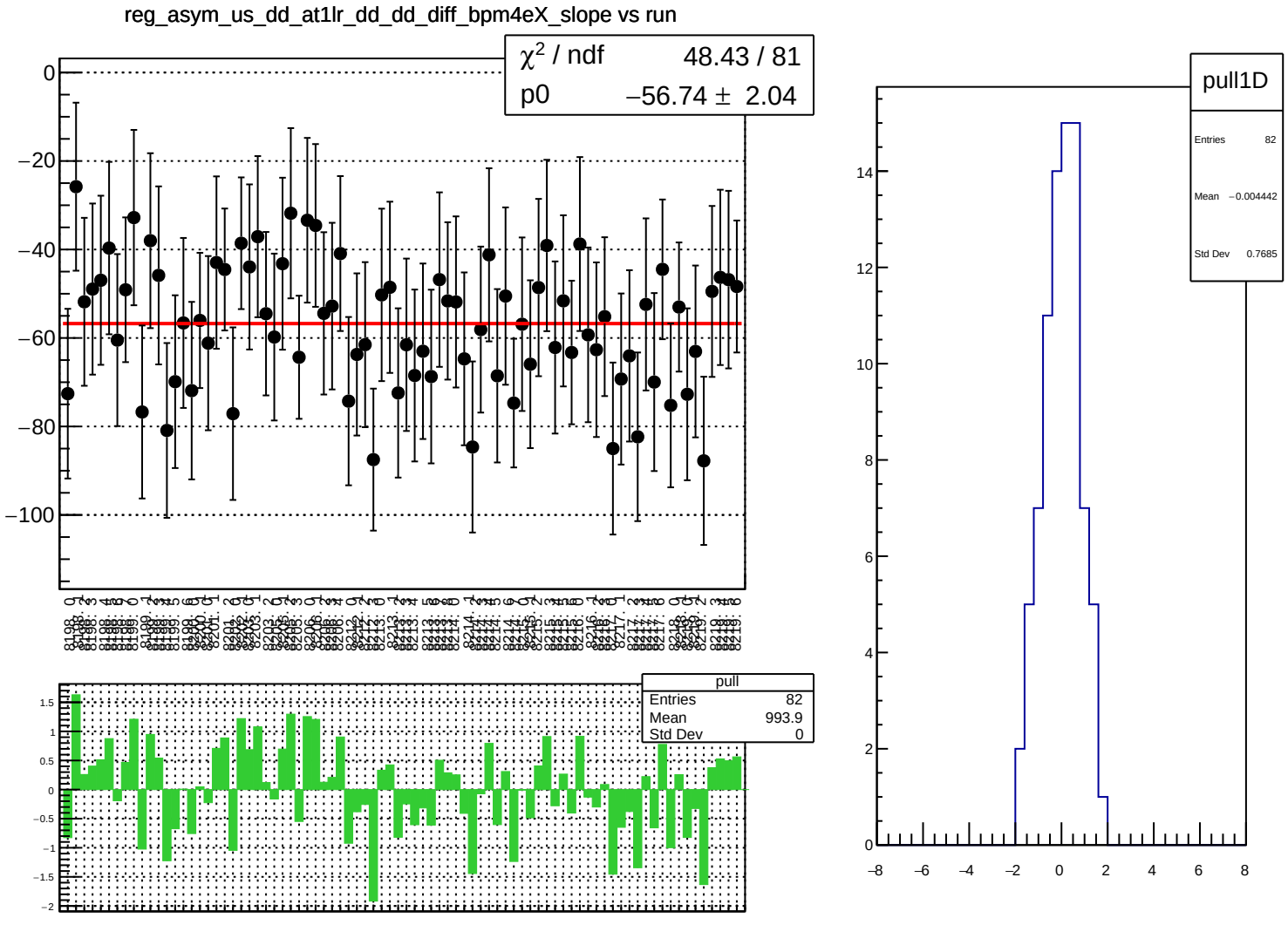

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 73.29 / 81
p0 31.01 ± 0.2136
pull
Entries 82
Mean −1369
Std Dev 0

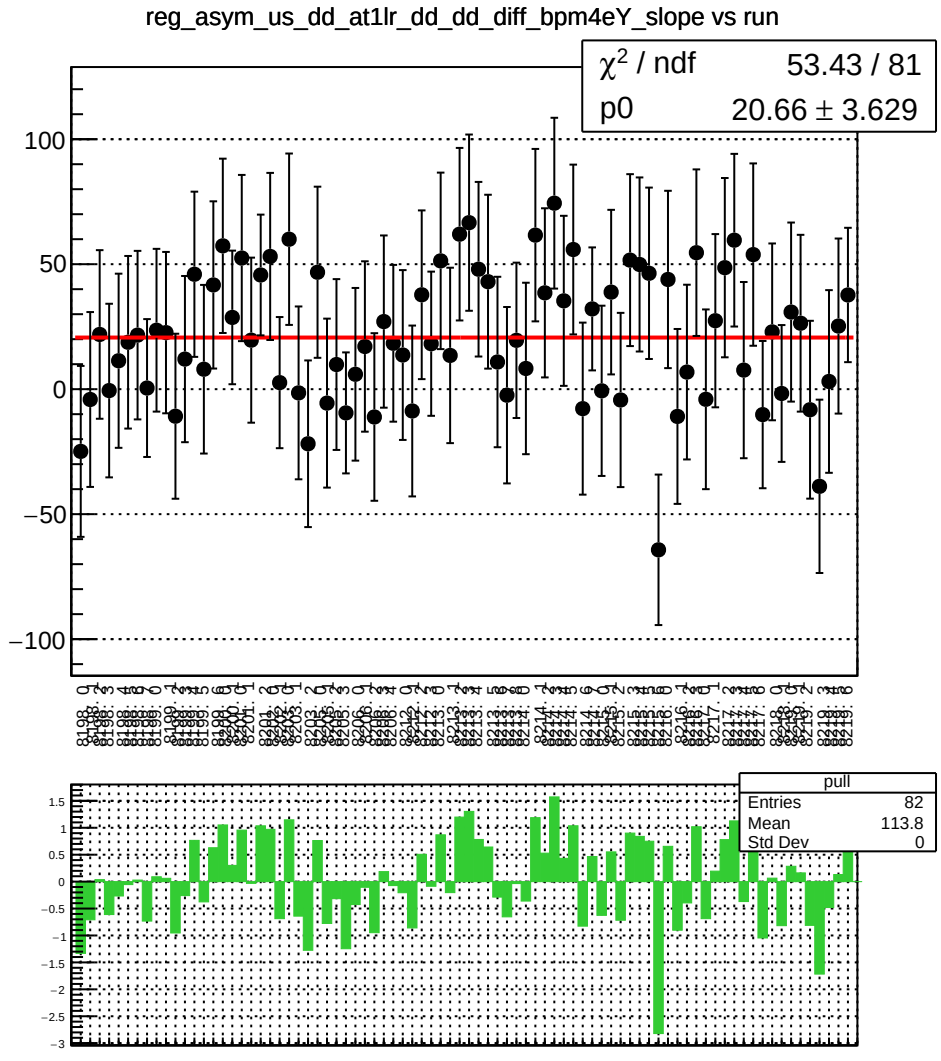

pull1D
Entries 82
Mean 0.006155
Std Dev 0.9454

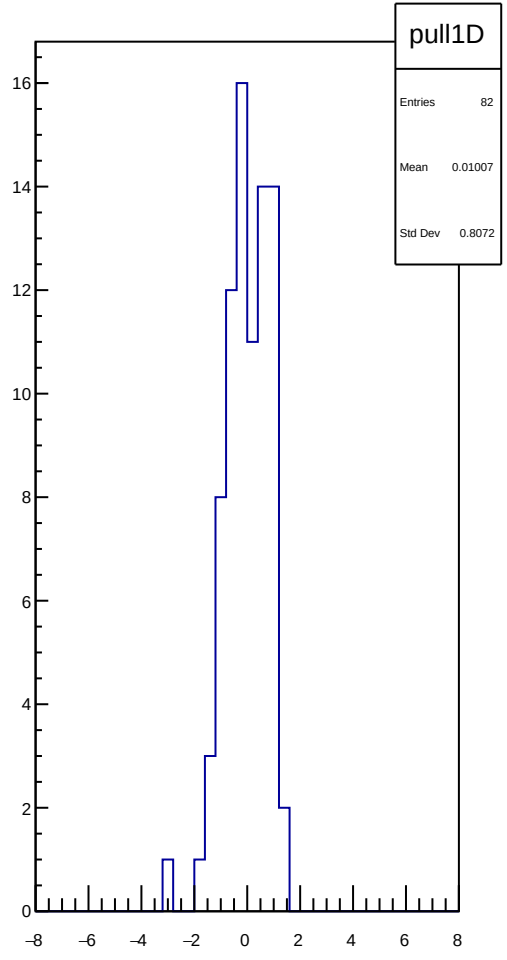

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 52.87 / 81
p0 −49.96 ± 2.036
pull
Entries 82
Mean 4281
Std Dev 0

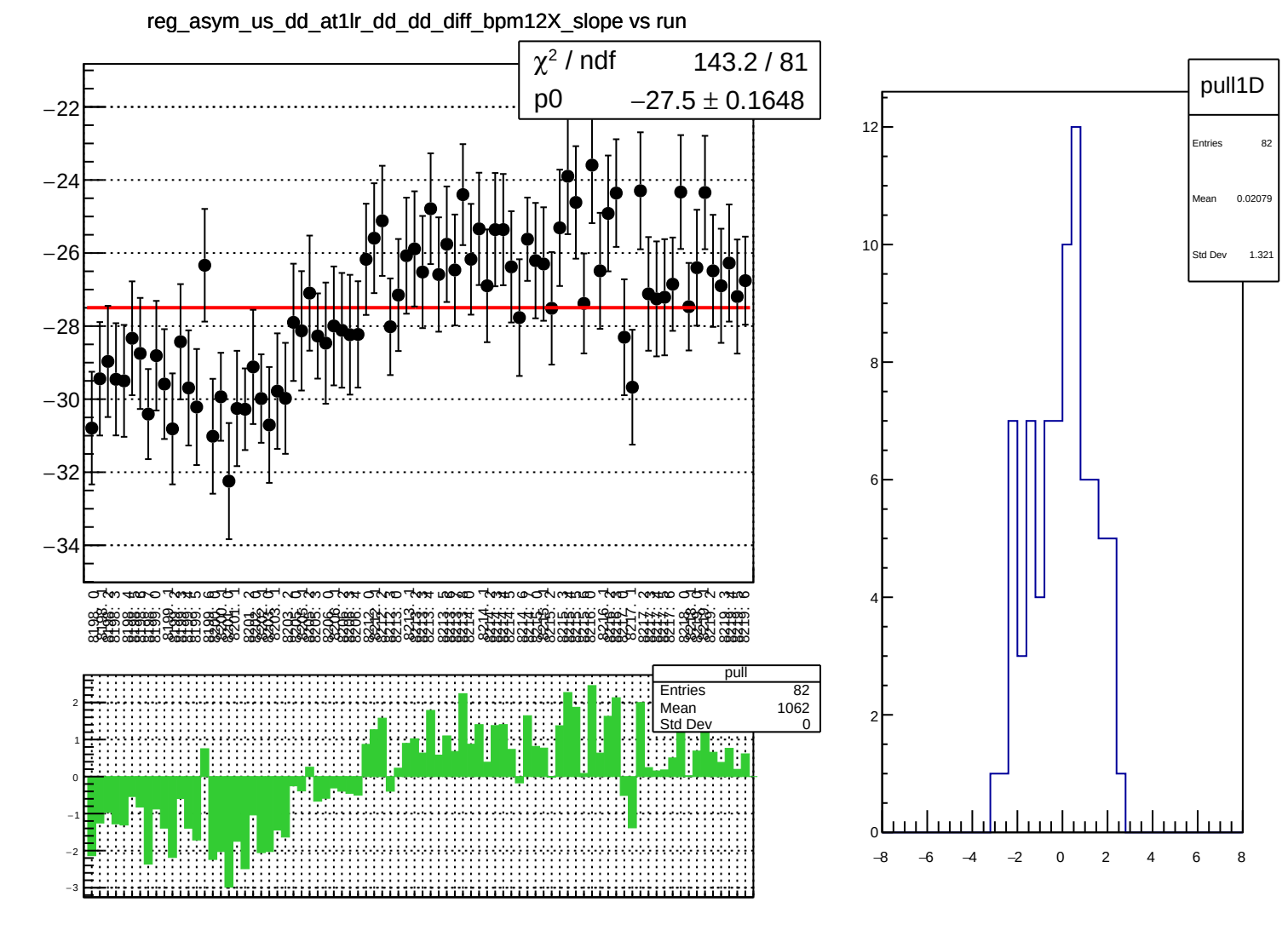

pull1D
Entries 82
Mean 0.001199
Std Dev 0.8029

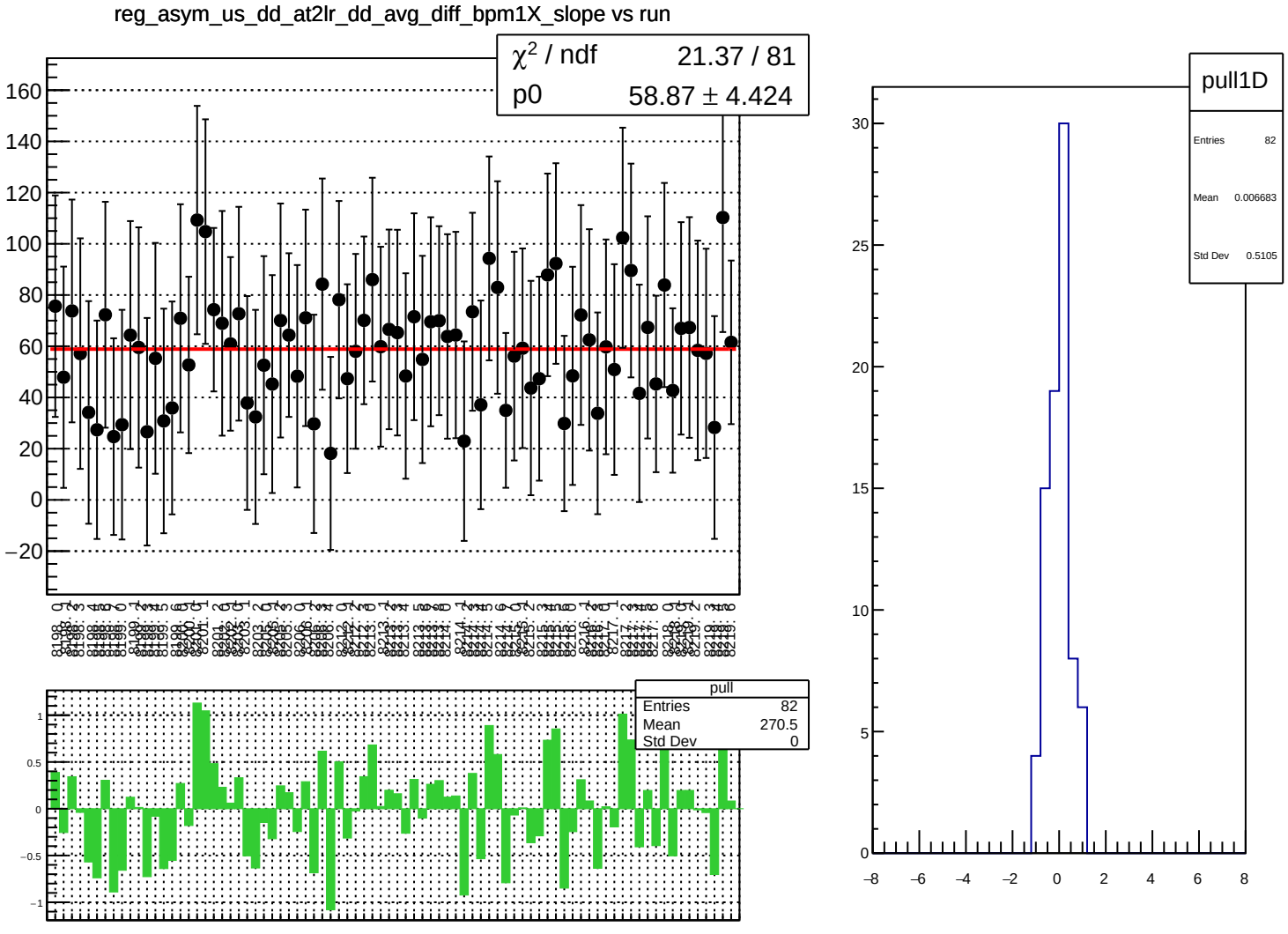

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.72 / 81
p0 −6.778 ± 3.374
100
50
0
−50
−100
pull
Entries 82
Mean 166.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.01259
Std Dev 0.8168
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

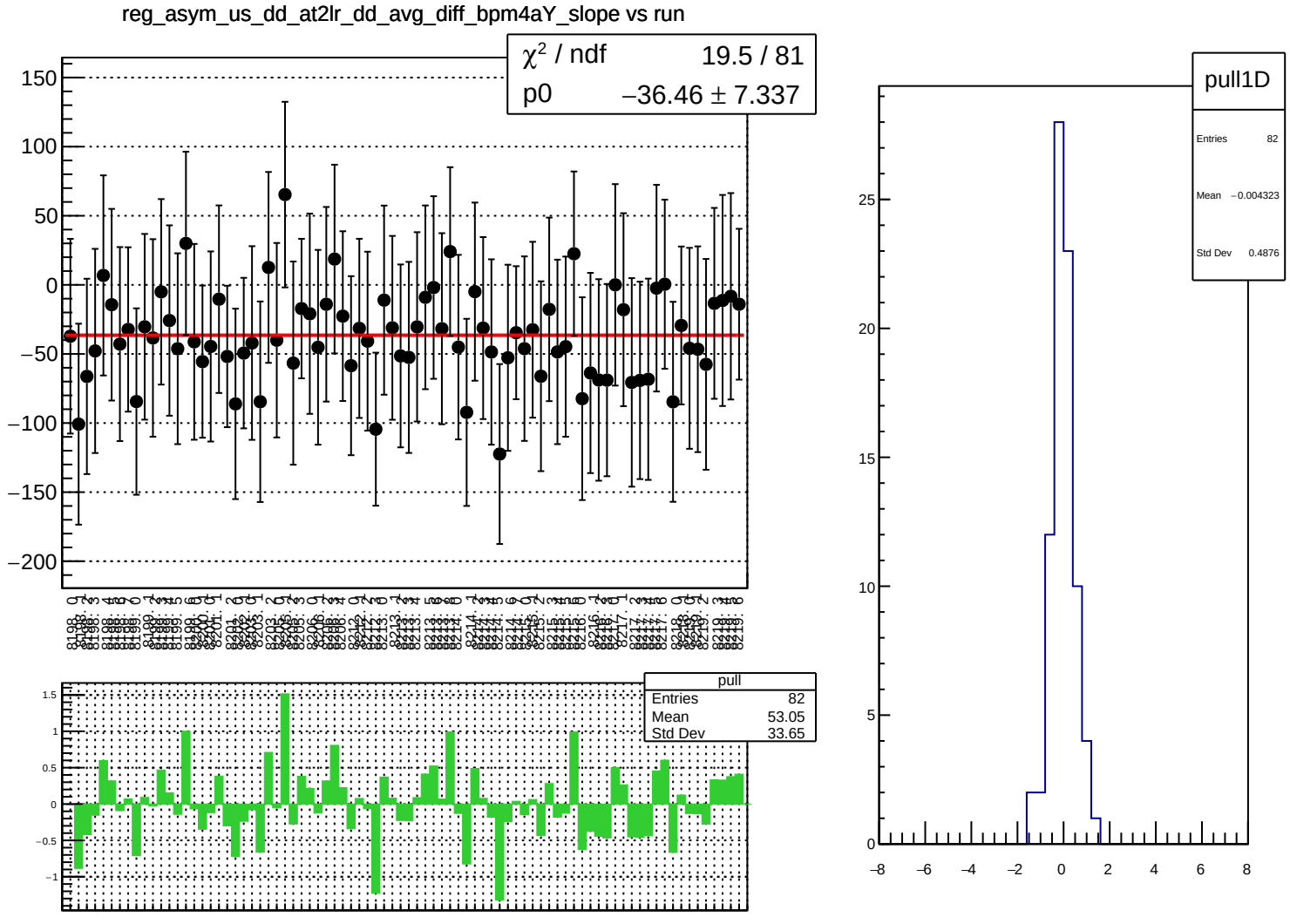

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.43 / 81
p0 −56.74 ± 2.04
pull
Entries 82
Mean 993.9
Std Dev 0
pull1D
Entries 82
Mean −0.004442
Std Dev 0.7685

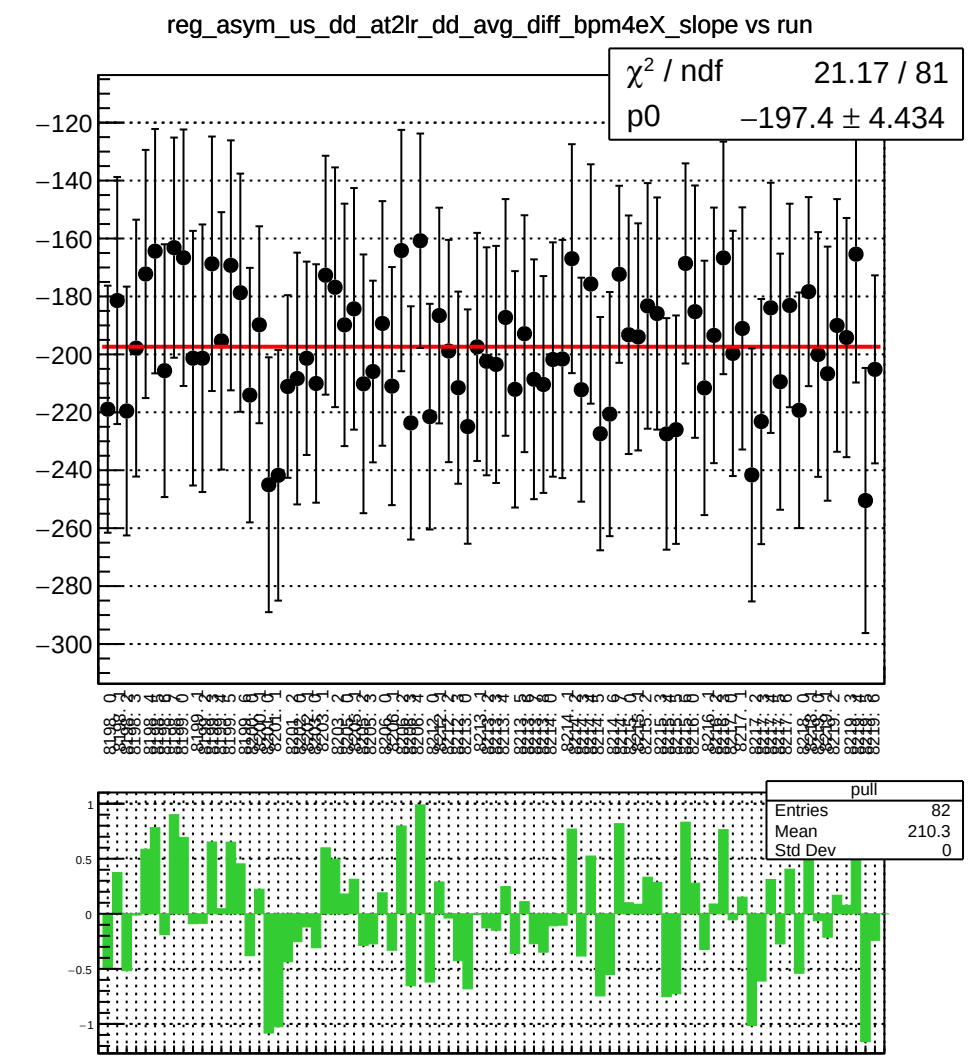

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.43 / 81
p0 20.66 ± 3.629
pull
Entries 82
Mean 113.8
Std Dev 0

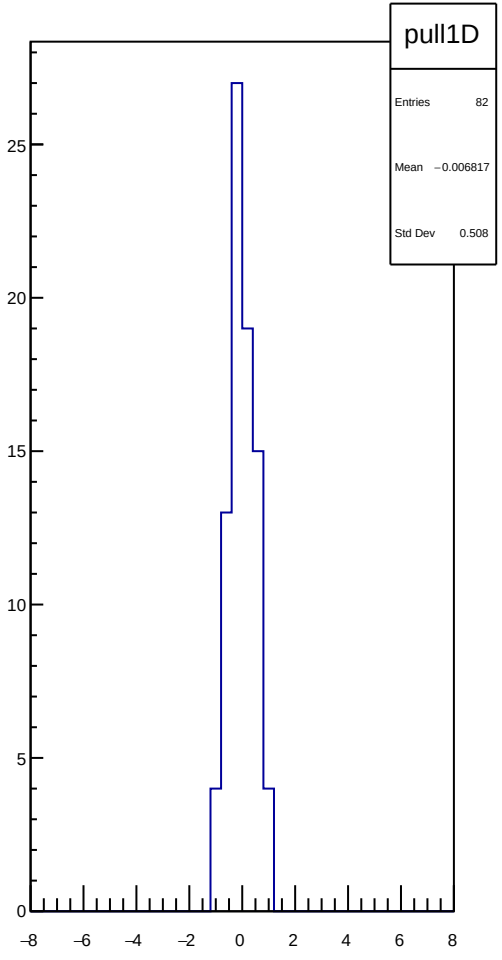

pull1D
Entries 82
Mean 0.01007
Std Dev 0.8072

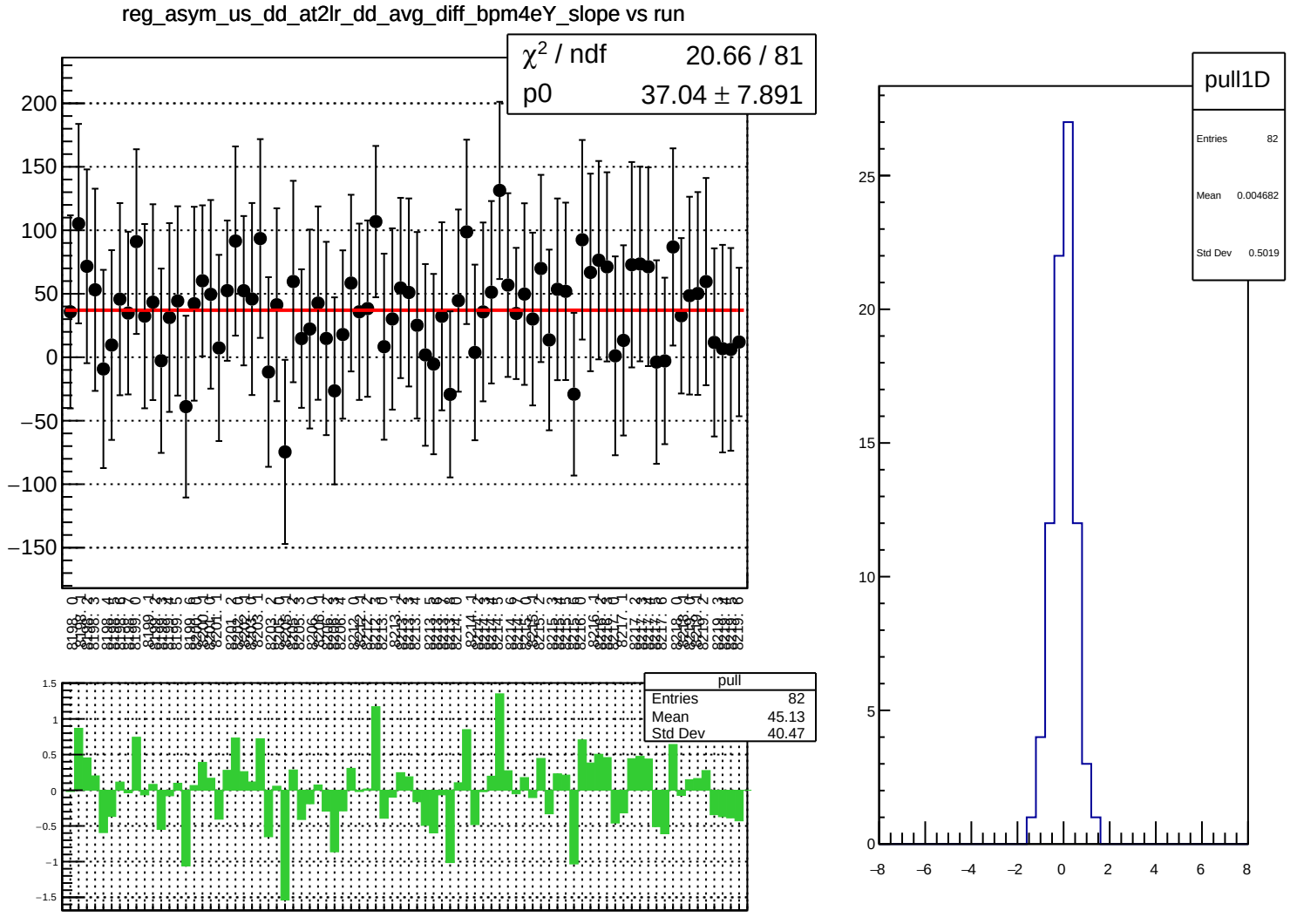

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 143.2 / 81
p0 −27.5 ± 0.1648
pull
Entries 82
Mean 1062
Std Dev 0
pull1D
Entries 82
Mean 0.02079
Std Dev 1.321

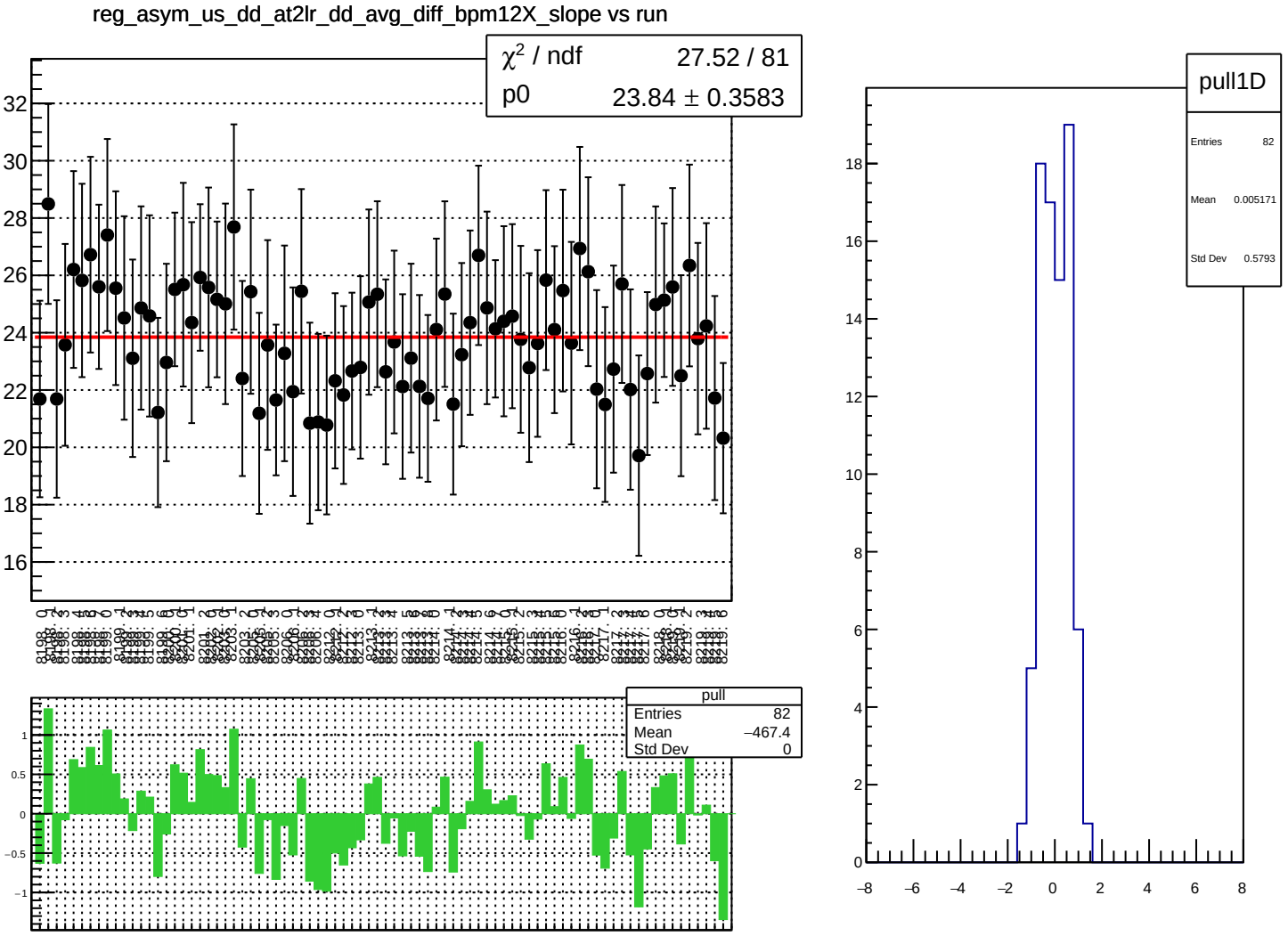

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 21.37 / 81
p0 58.87 ± 4.424
pull
Entries 82
Mean 270.5
Std Dev 0
pull1D
Entries 82
Mean 0.006683
Std Dev 0.5105

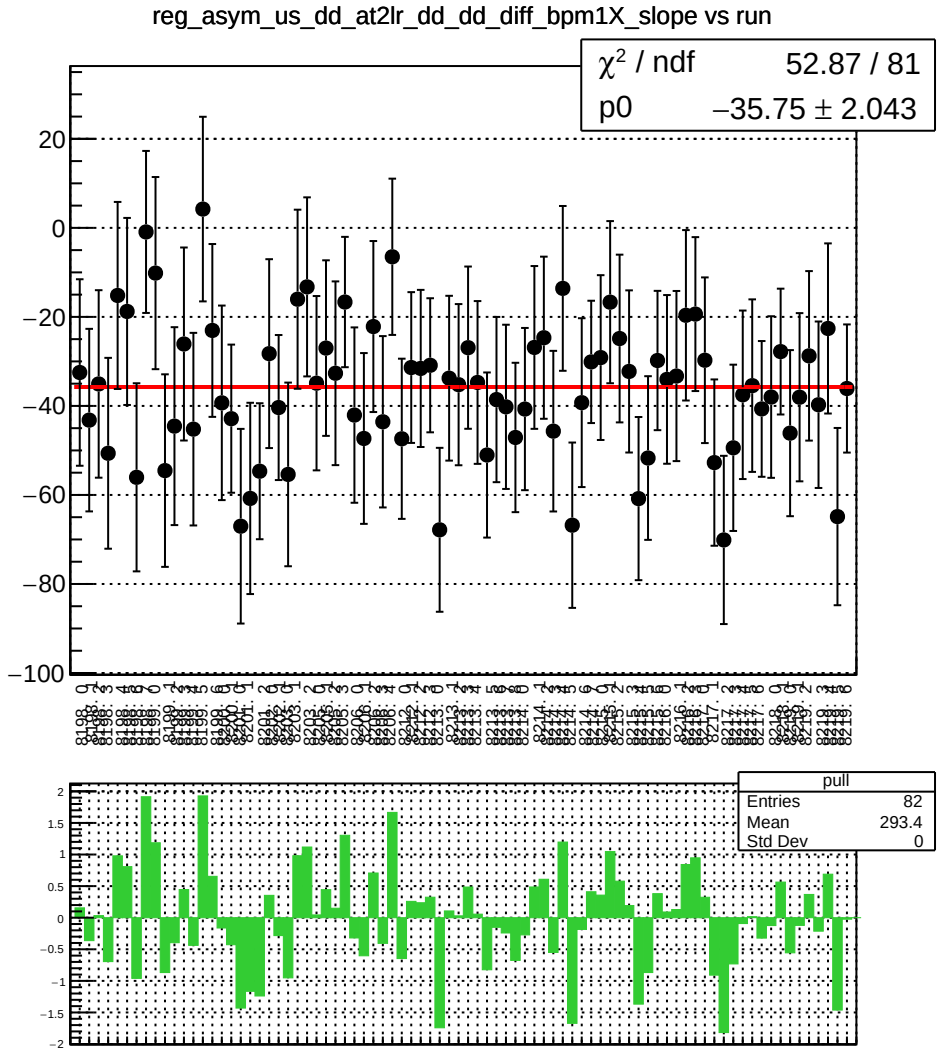

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.5 / 81
p0 −36.46 ± 7.337
pull
Entries 82
Mean 53.05
Std Dev 33.65
pull1D
Entries 82
Mean −0.004323
Std Dev 0.4876

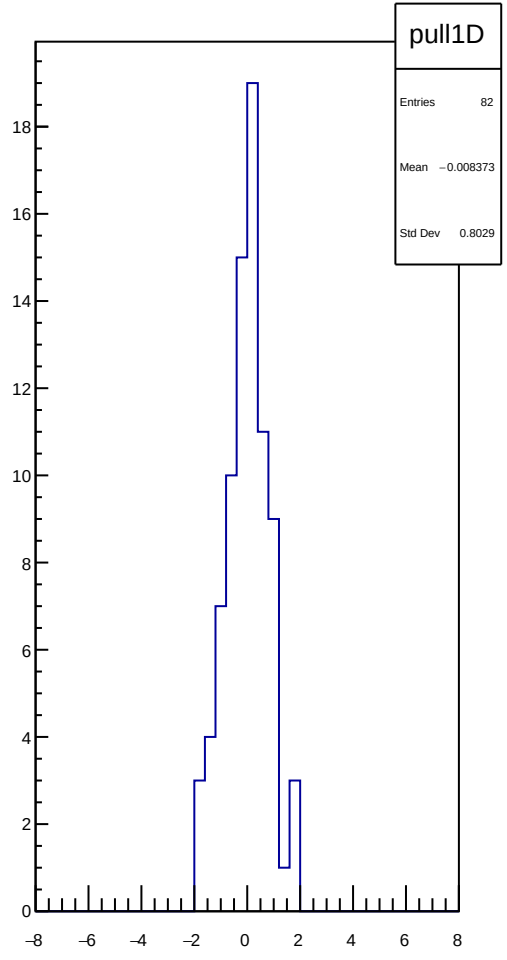

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.17 / 81
p0 −197.4 ± 4.434
−120
−140
−160
−180
−200
−220
−240
−260
−280
−300
pull
Entries 82
Mean 210.3
Std Dev 0
1
0.5
0
−0.5
−1

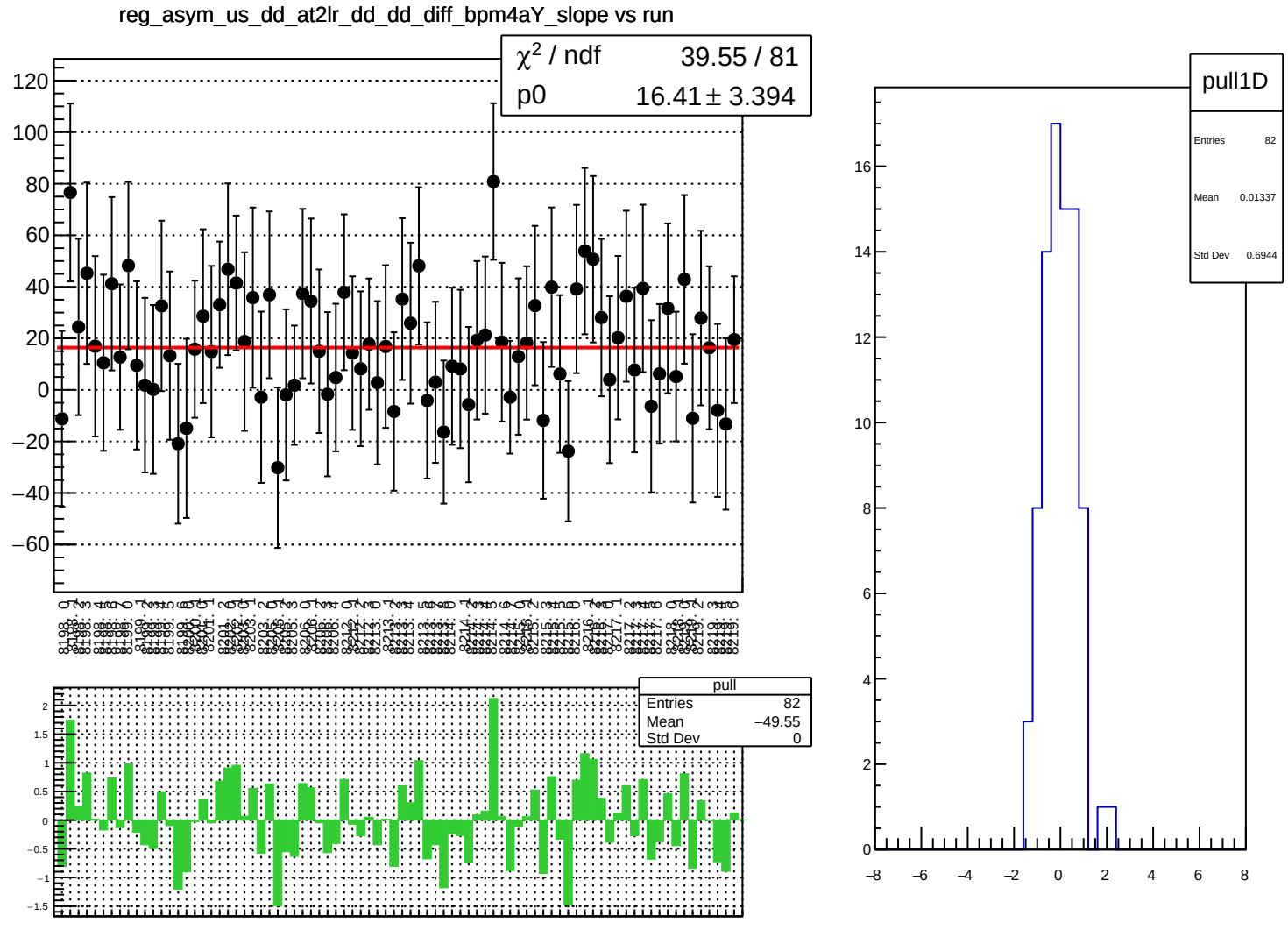

pull1D
Entries 82
Mean −0.006817
Std Dev 0.508
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

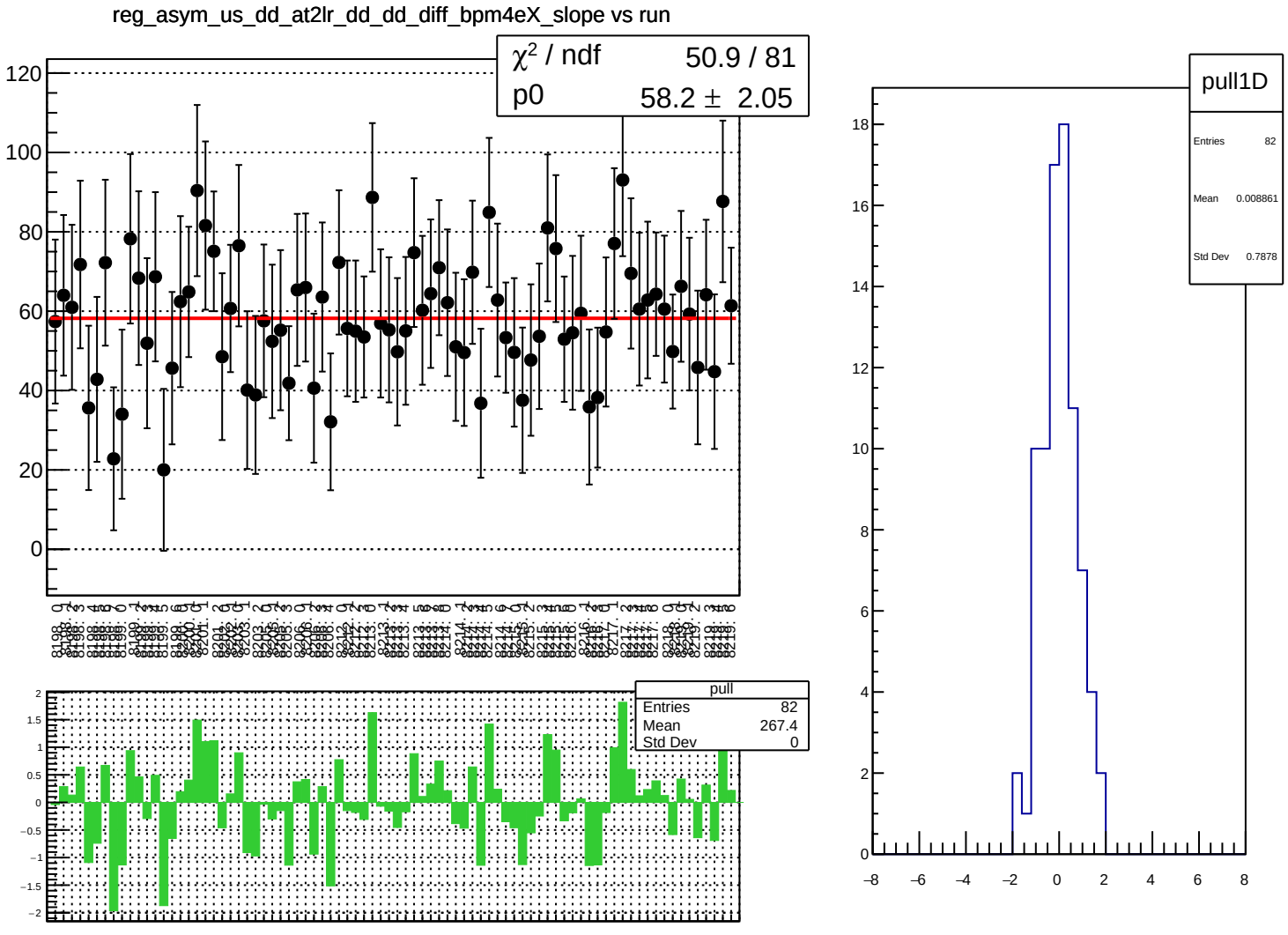

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.66 / 81
p0 37.04 ± 7.891
pull
Entries 82
Mean 45.13
Std Dev 40.47
pull1D
Entries 82
Mean 0.004682
Std Dev 0.5019

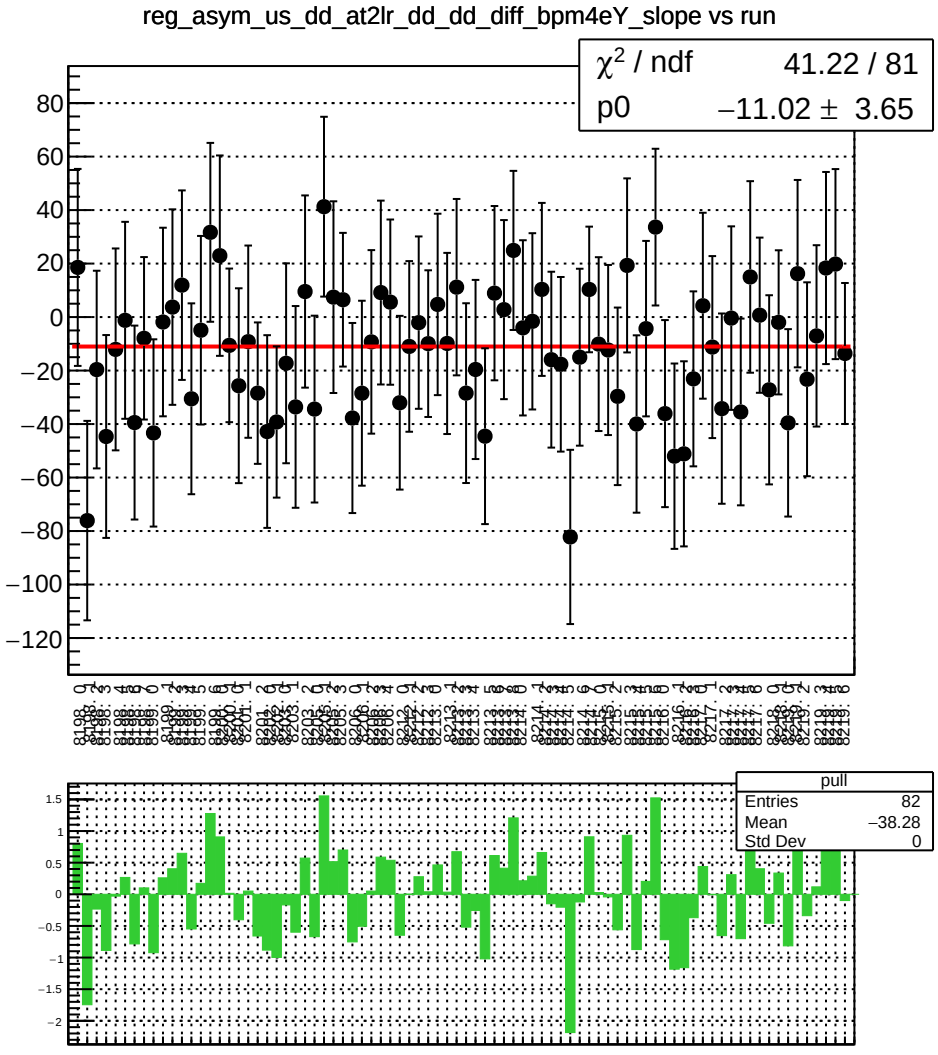

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 27.52 / 81
p0 23.84 ± 0.3583
pull
Entries 82
Mean −467.4
Std Dev 0
pull1D
Entries 82
Mean 0.005171
Std Dev 0.5793

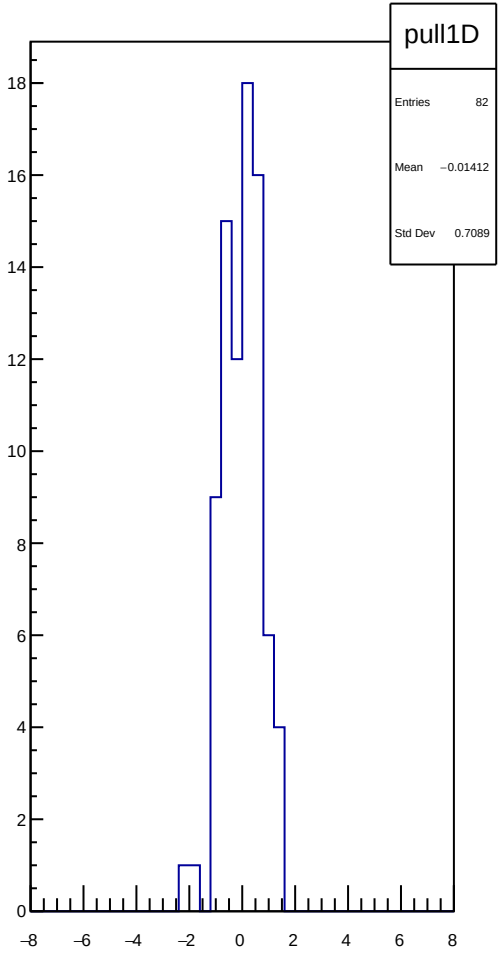

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 52.87 / 81
p0 −35.75 ± 2.043
pull
Entries 82
Mean 293.4
Std Dev 0

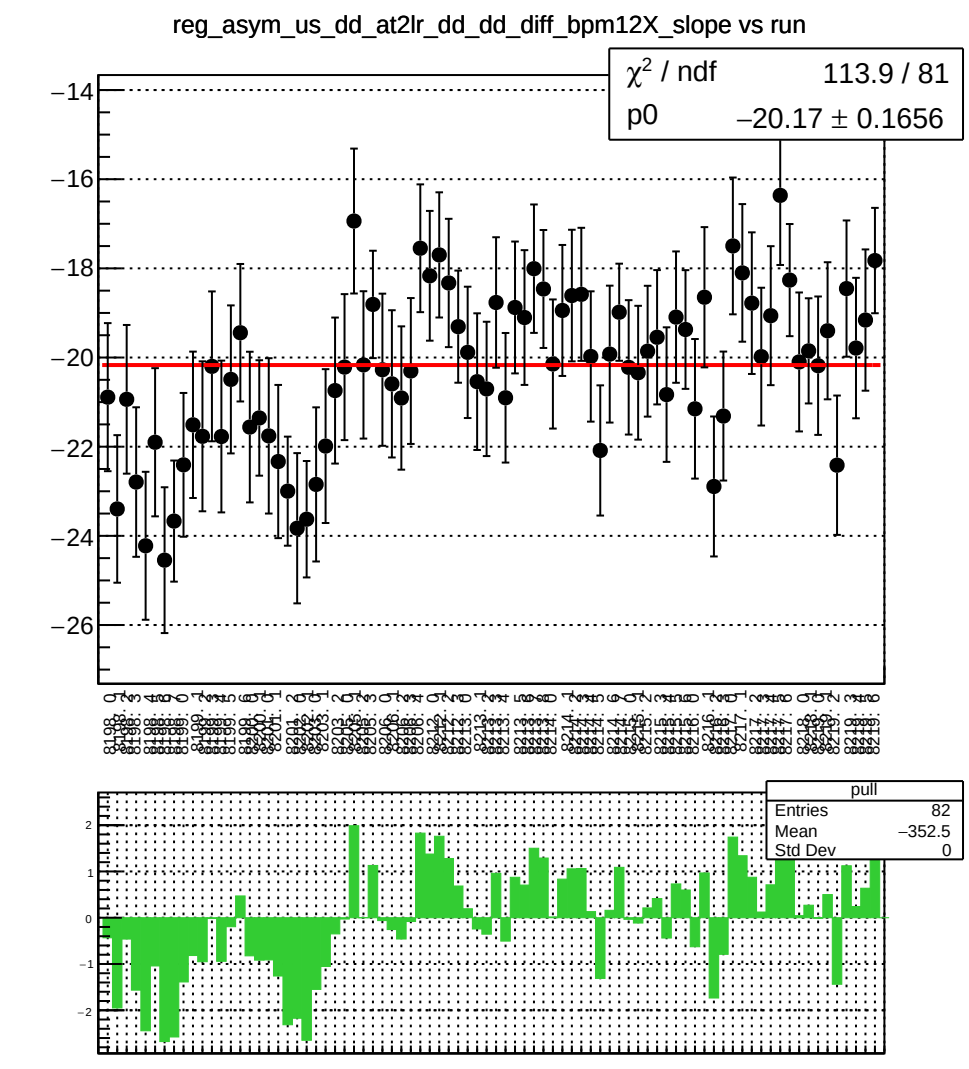

pull1D
Entries 82
Mean −0.008373
Std Dev 0.8029

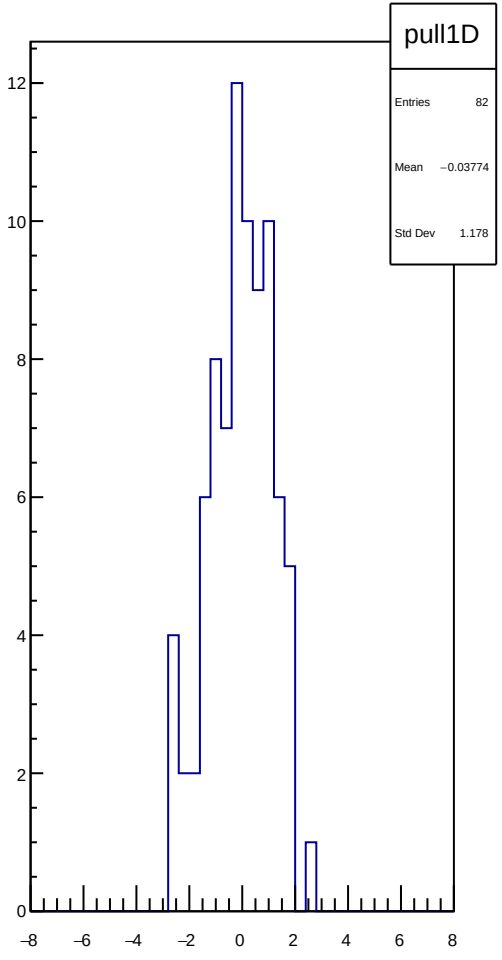

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.55 / 81
p0 16.41 ± 3.394
pull
Entries 82
Mean −49.55
Std Dev 0
pull1D
Entries 82
Mean 0.01337
Std Dev 0.6944

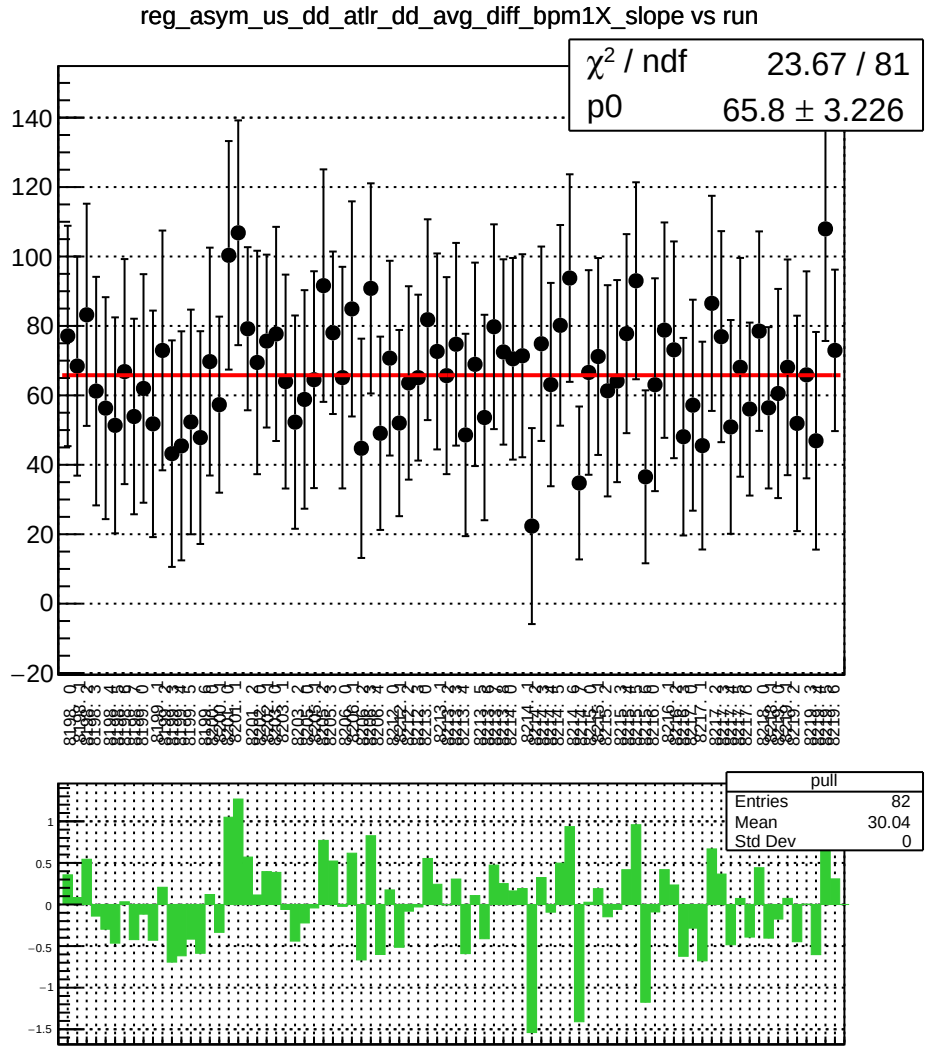

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.9 / 81
p0 58.2 ± 2.05
pull
Entries 82
Mean 267.4
Std Dev 0
pull1D
Entries 82
Mean 0.008861
Std Dev 0.7878

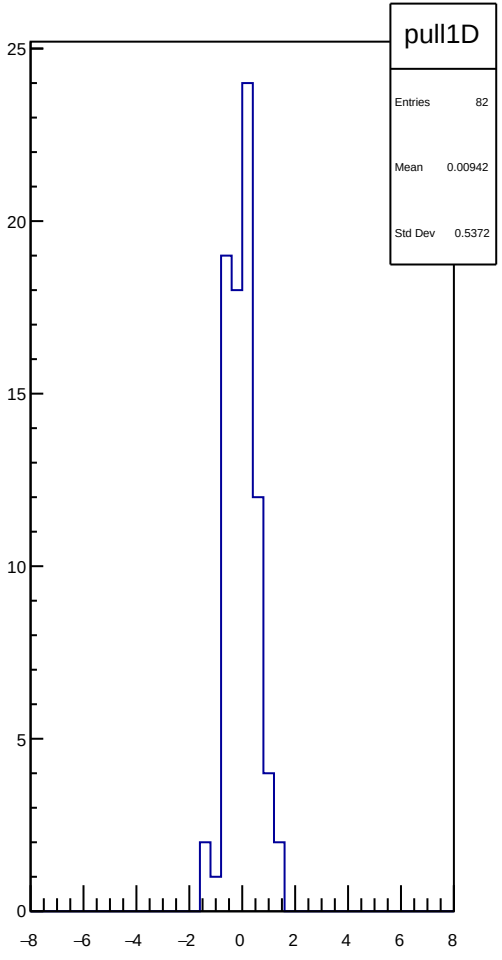

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.22 / 81
p0 −11.02 ± 3.65
pull
Entries 82
Mean −38.28
Std Dev 0

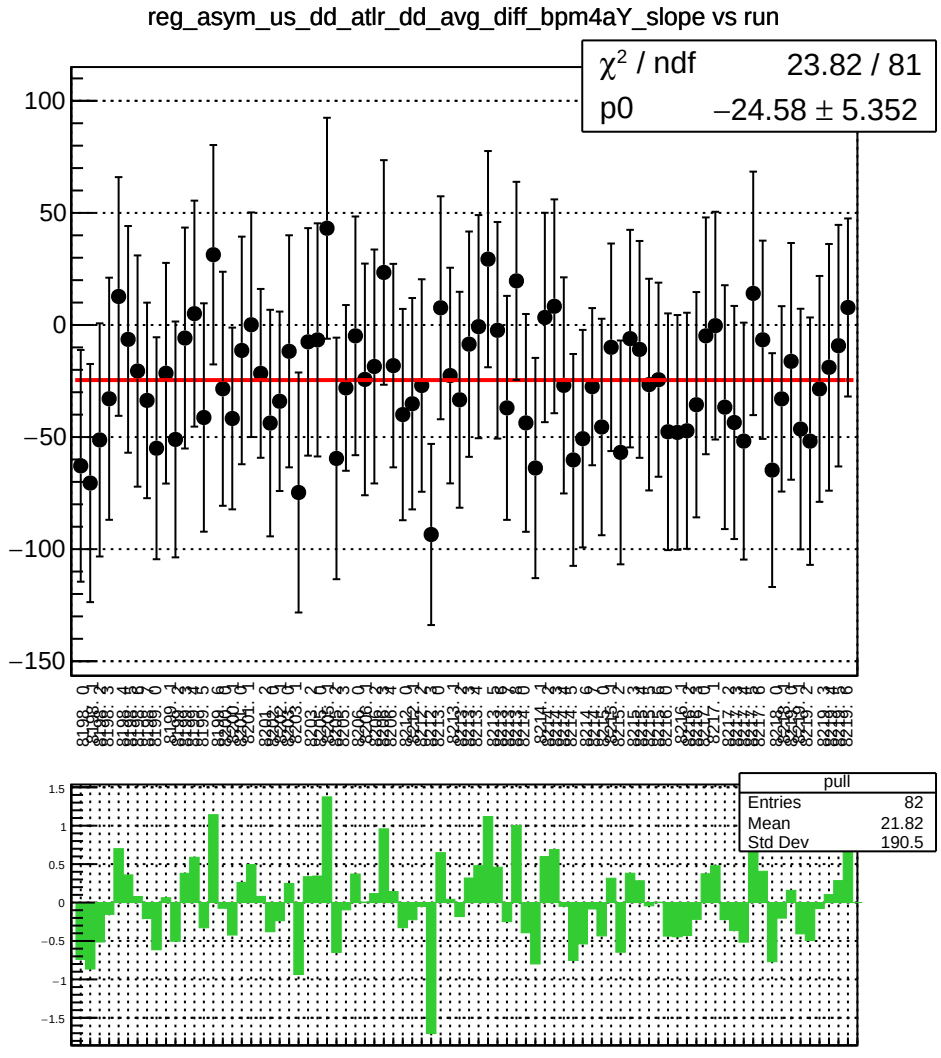

pull1D
Entries 82
Mean −0.01412
Std Dev 0.7089

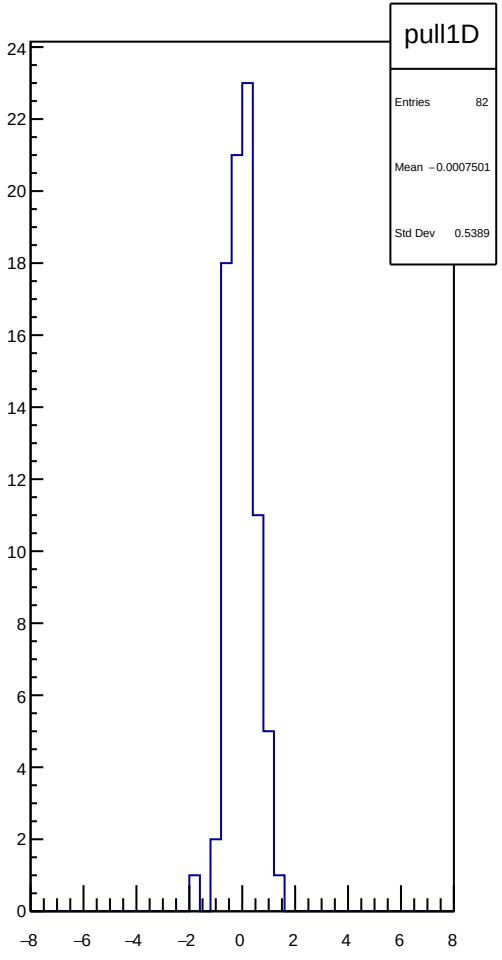

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 113.9 / 81
p0 −20.17 ± 0.1656
pull
Entries 82
Mean −352.5
Std Dev 0

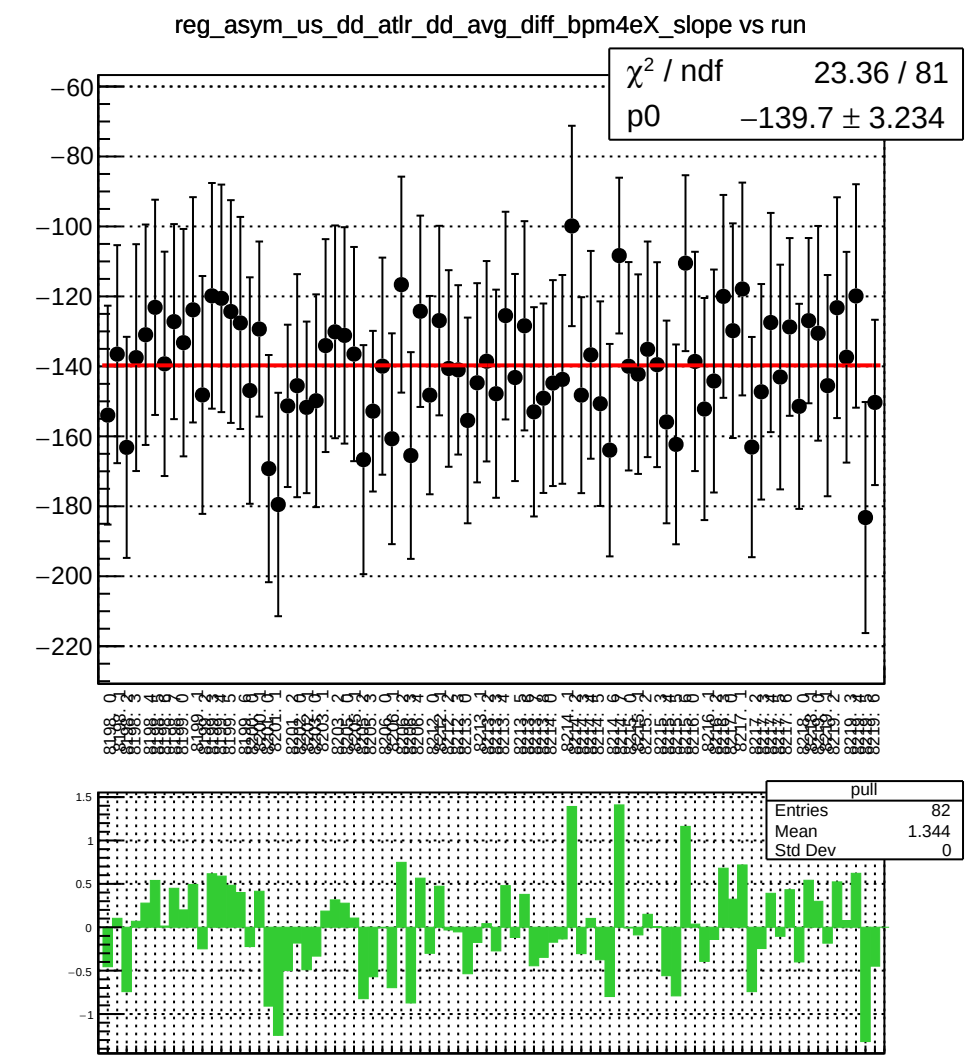

pull1D
Entries 82
Mean −0.03774
Std Dev 1.178

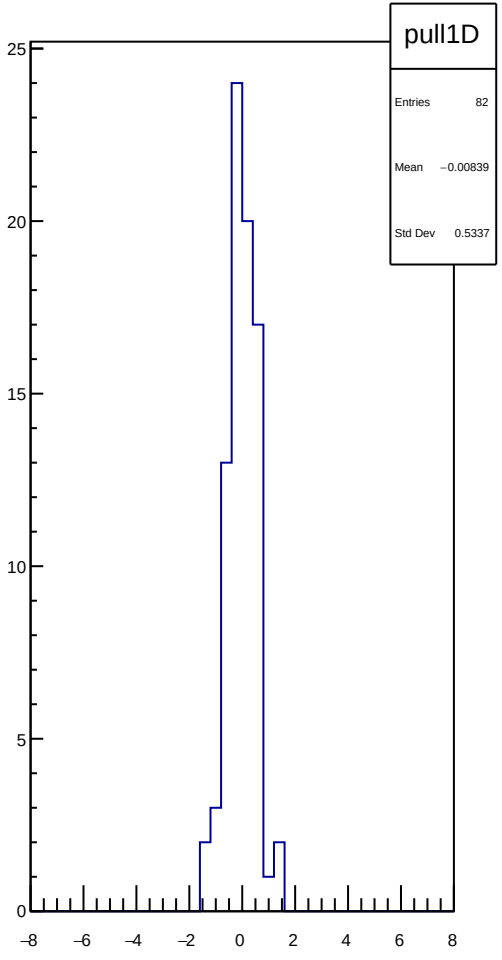

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 23.67 / 81
p0 65.8 ± 3.226
pull
Entries 82
Mean 30.04
Std Dev 0

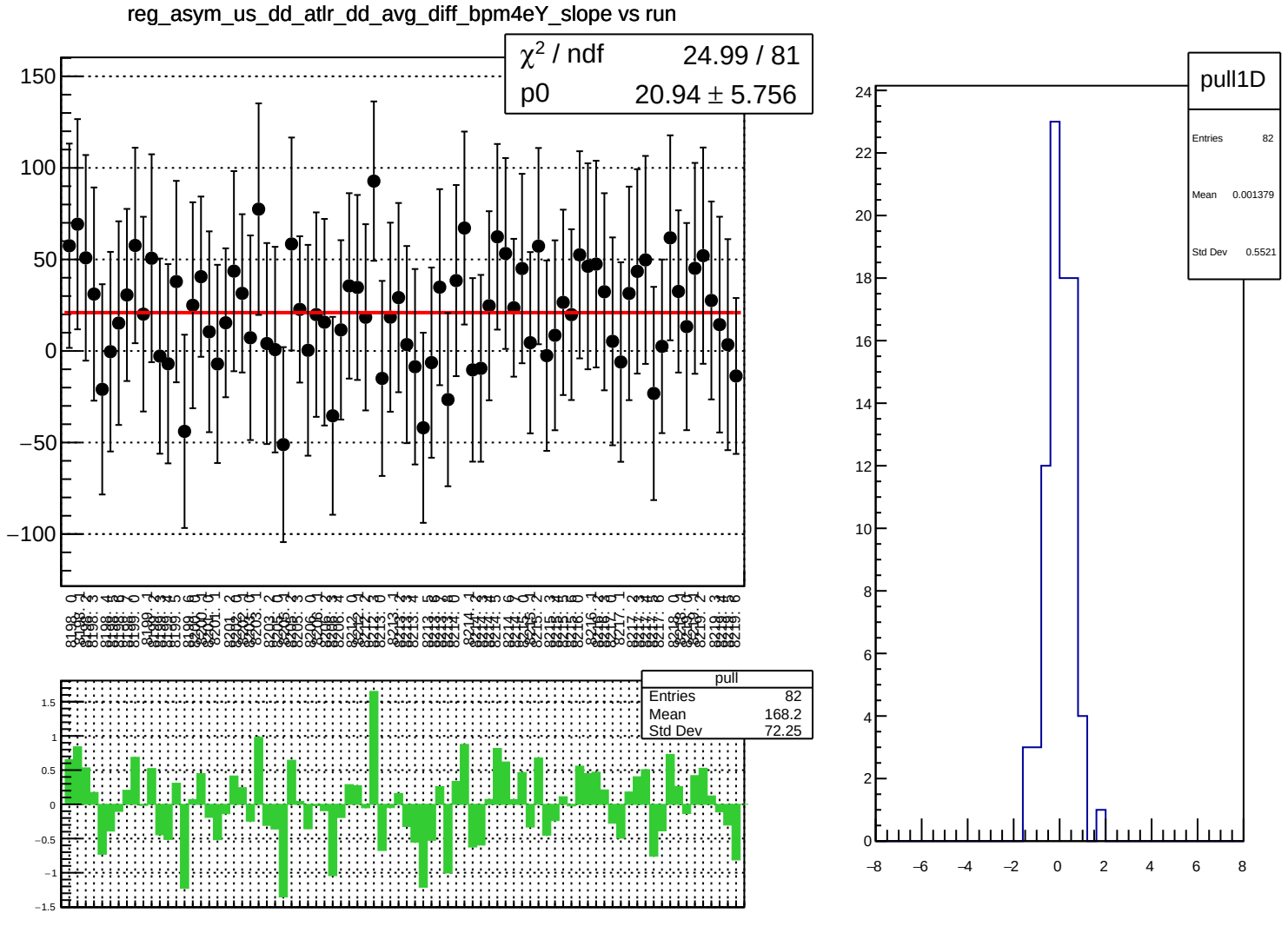

pull1D
Entries 82
Mean 0.00942
Std Dev 0.5372

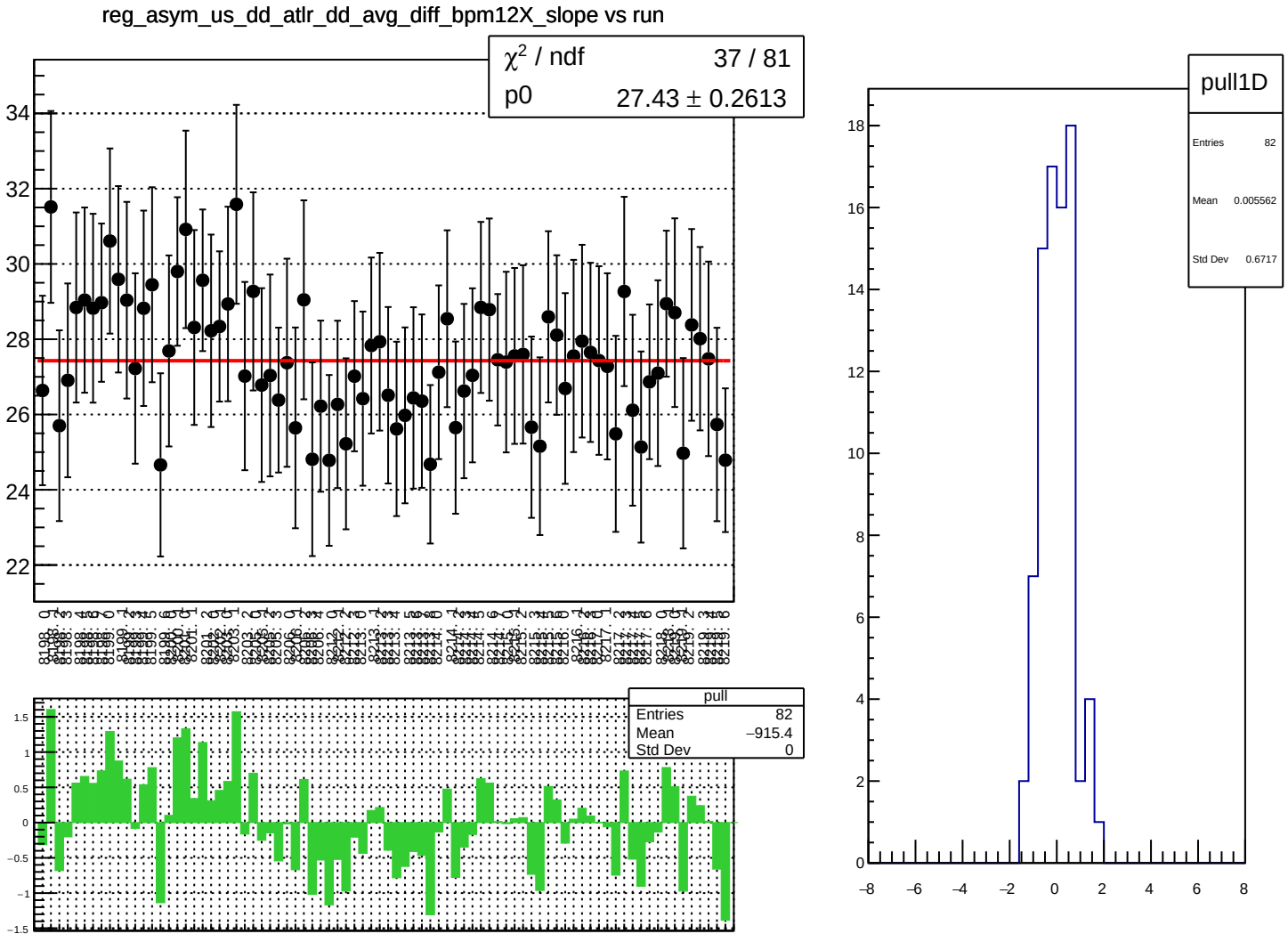

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.82 / 81
p0 −24.58 ± 5.352
pull
Entries 82
Mean 21.82
Std Dev 190.5

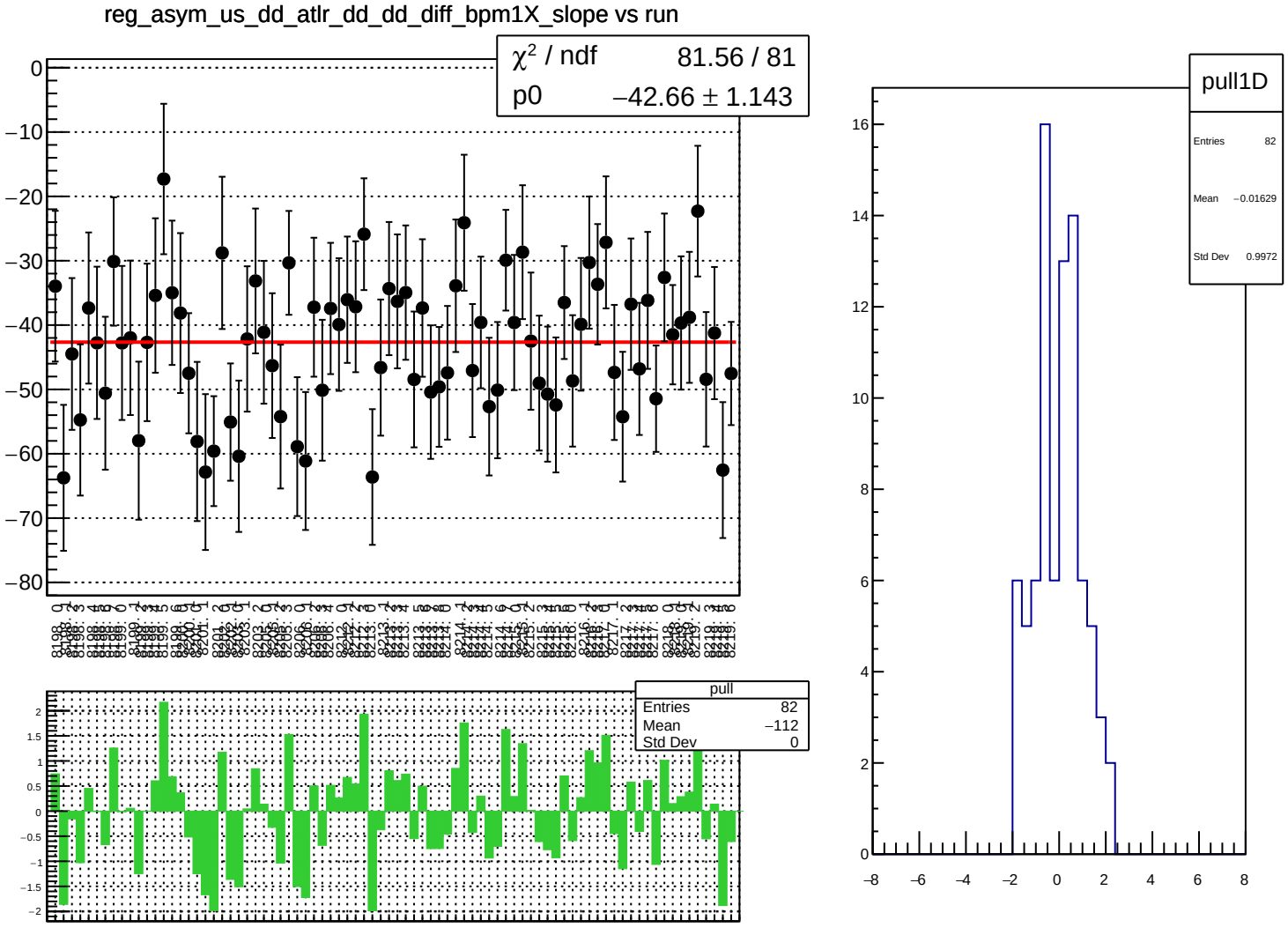

pull1D
Entries 82
Mean −0.0007501
Std Dev 0.5389

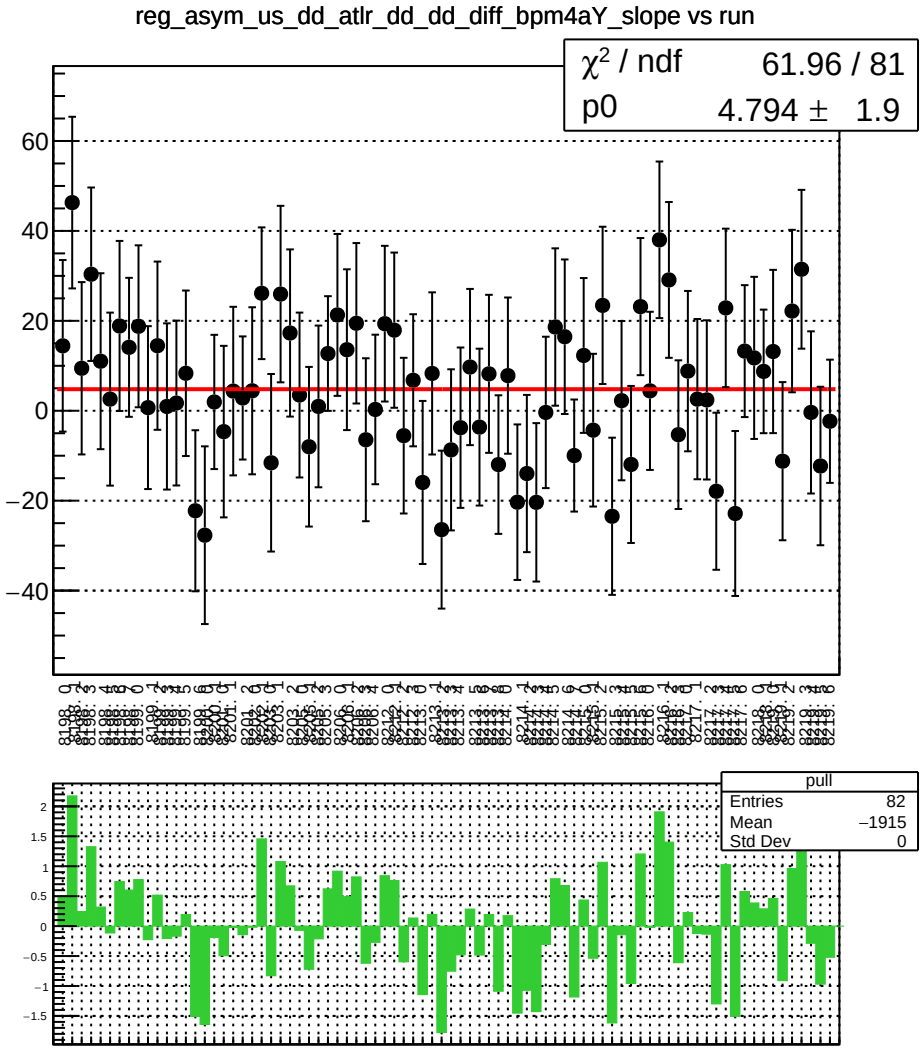

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.36 / 81
p0 −139.7 ± 3.234
pull
Entries 82
Mean 1.344
Std Dev 0

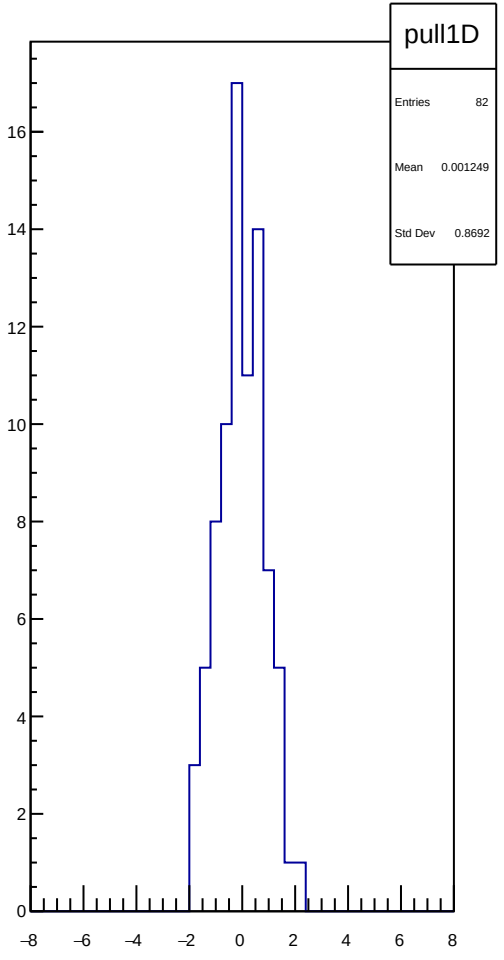

pull1D
Entries 82
Mean −0.00839
Std Dev 0.5337

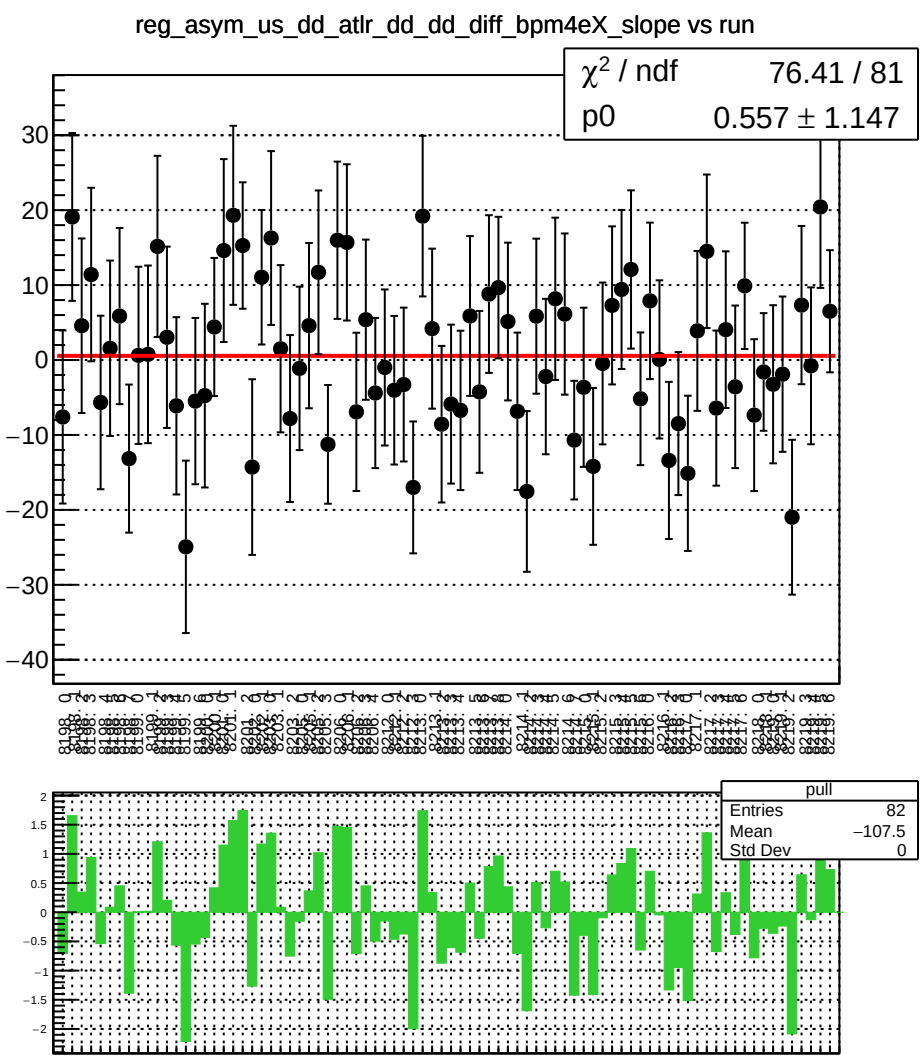

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.99 / 81
p0 20.94 ± 5.756
pull
Entries 82
Mean 168.2
Std Dev 72.25
pull1D
Entries 82
Mean 0.001379
Std Dev 0.5521

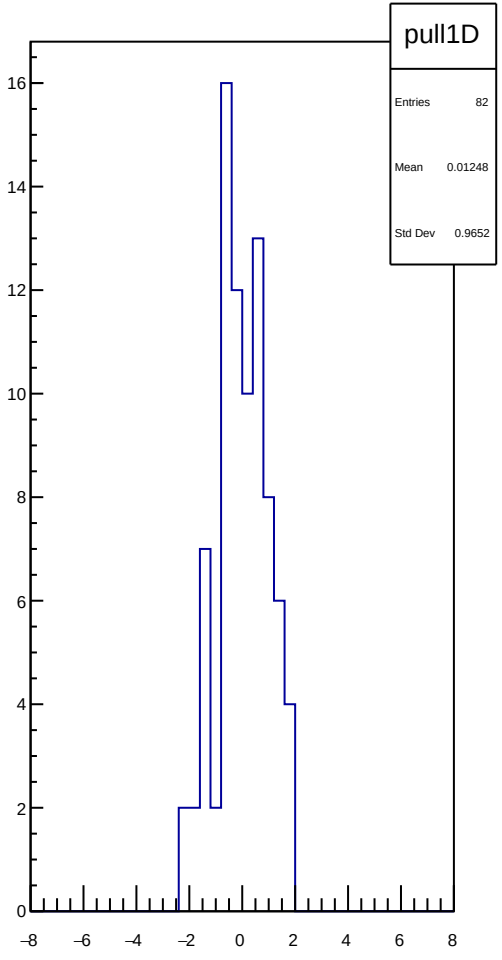

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 37 / 81
p0 27.43 ± 0.2613
pull
Entries 82
Mean −915.4
Std Dev 0
pull1D
Entries 82
Mean 0.005562
Std Dev 0.6717

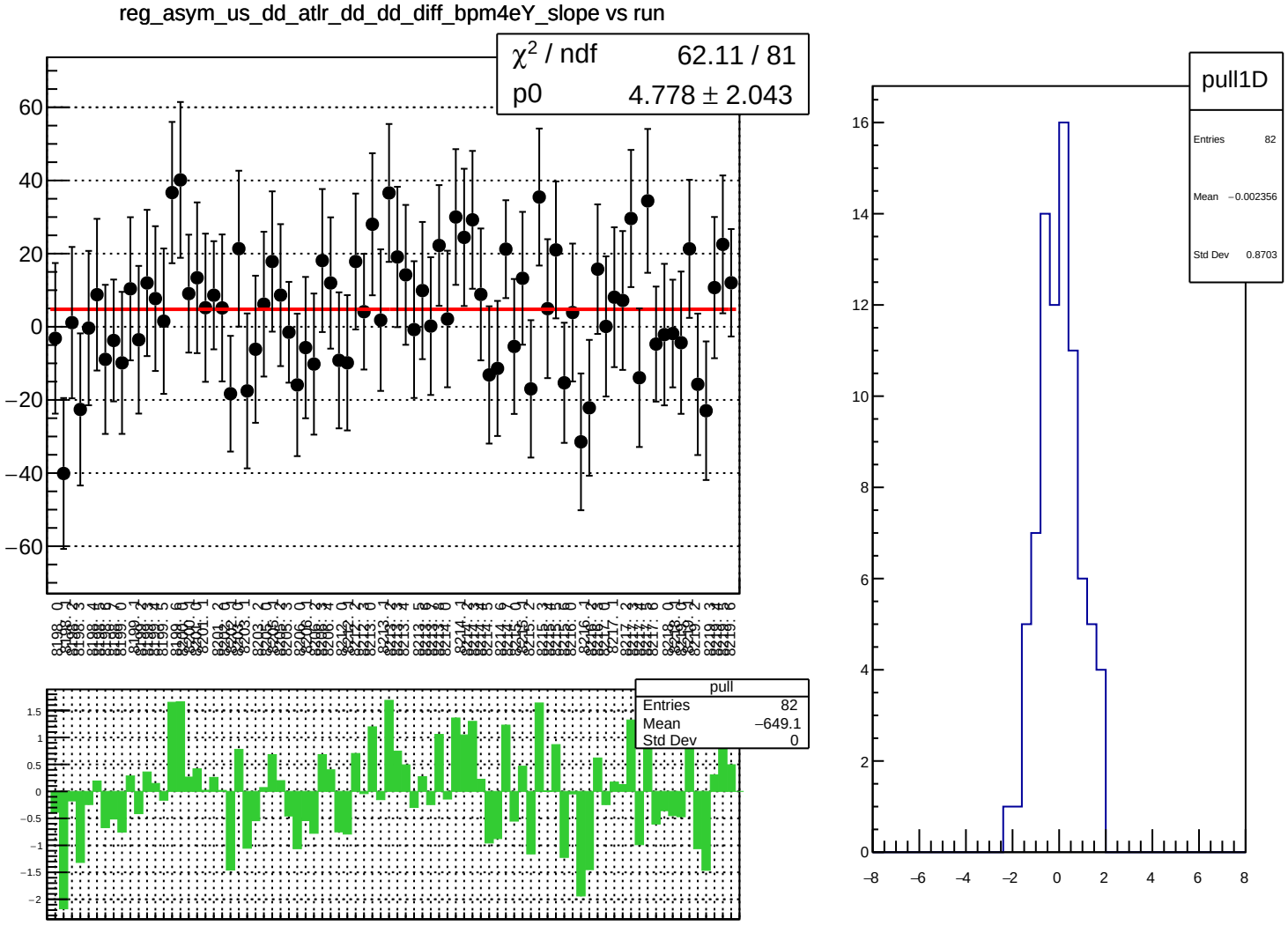

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 81.56 / 81
p0 −42.66 ± 1.143
pull
Entries 82
Mean −112
Std Dev 0
pull1D
Entries 82
Mean −0.01629
Std Dev 0.9972

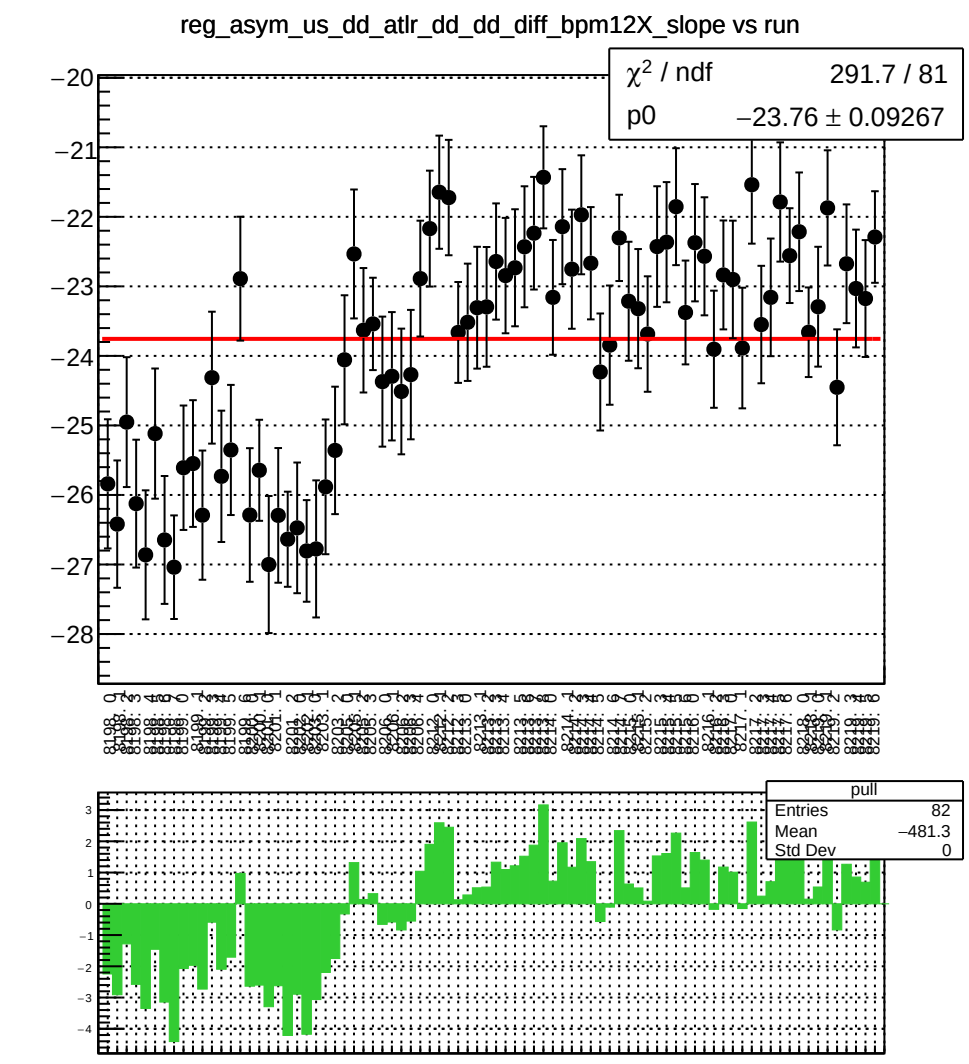

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.96 / 81
p0 4.794 ± 1.9
pull
Entries 82
Mean −1915
Std Dev 0

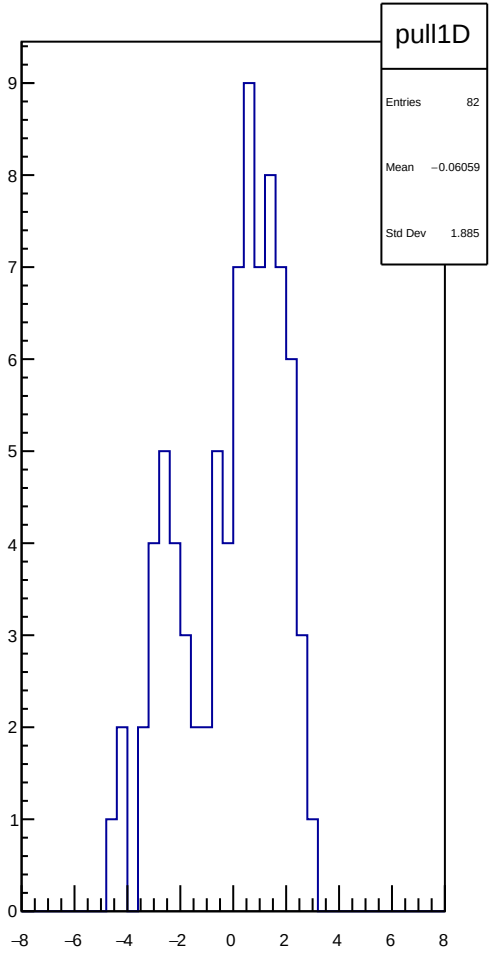

pull1D
Entries 82
Mean 0.001249
Std Dev 0.8692

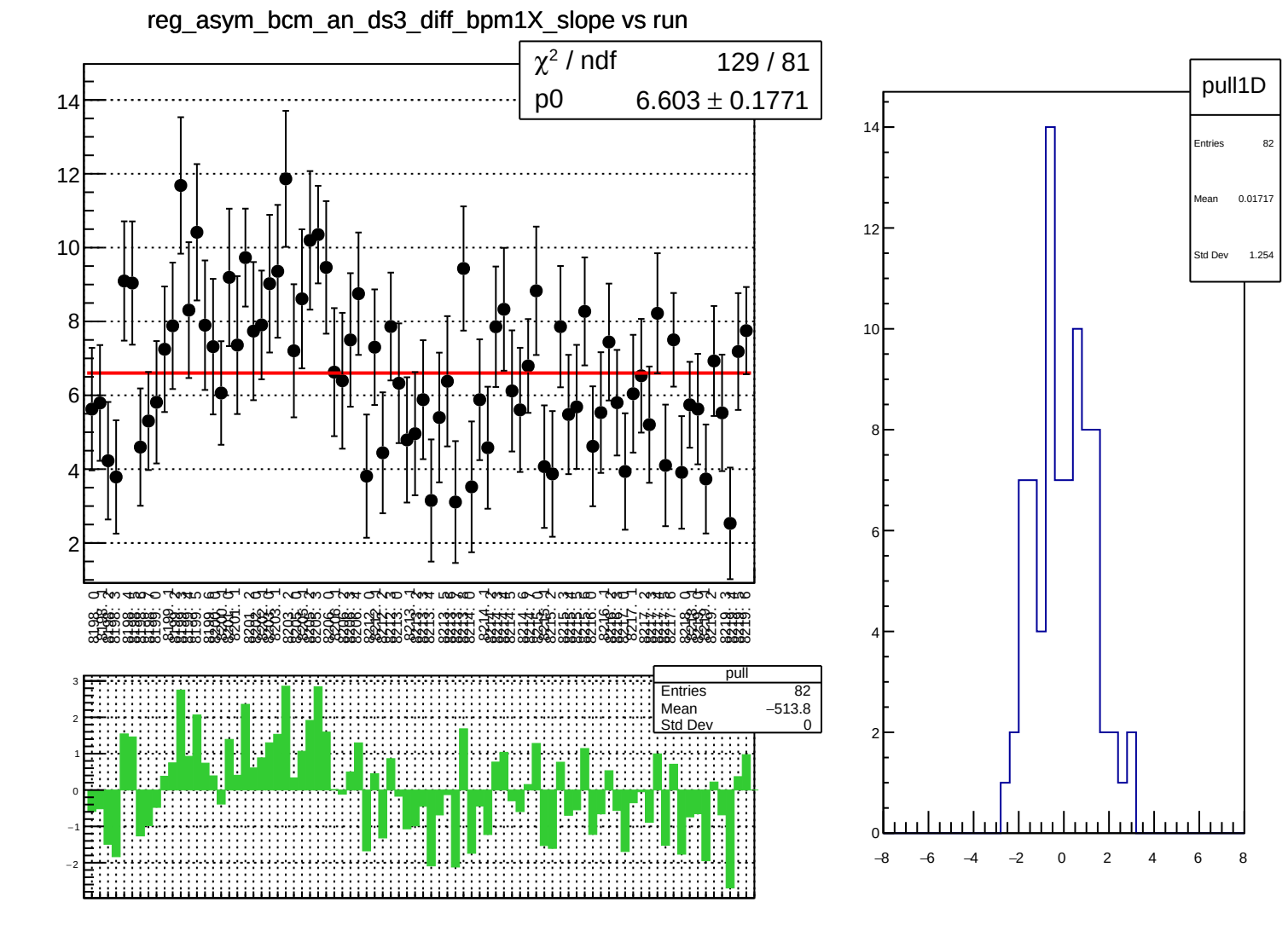

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 76.41 / 81
p0 0.557 ± 1.147
pull
Entries 82
Mean −107.5
Std Dev 0

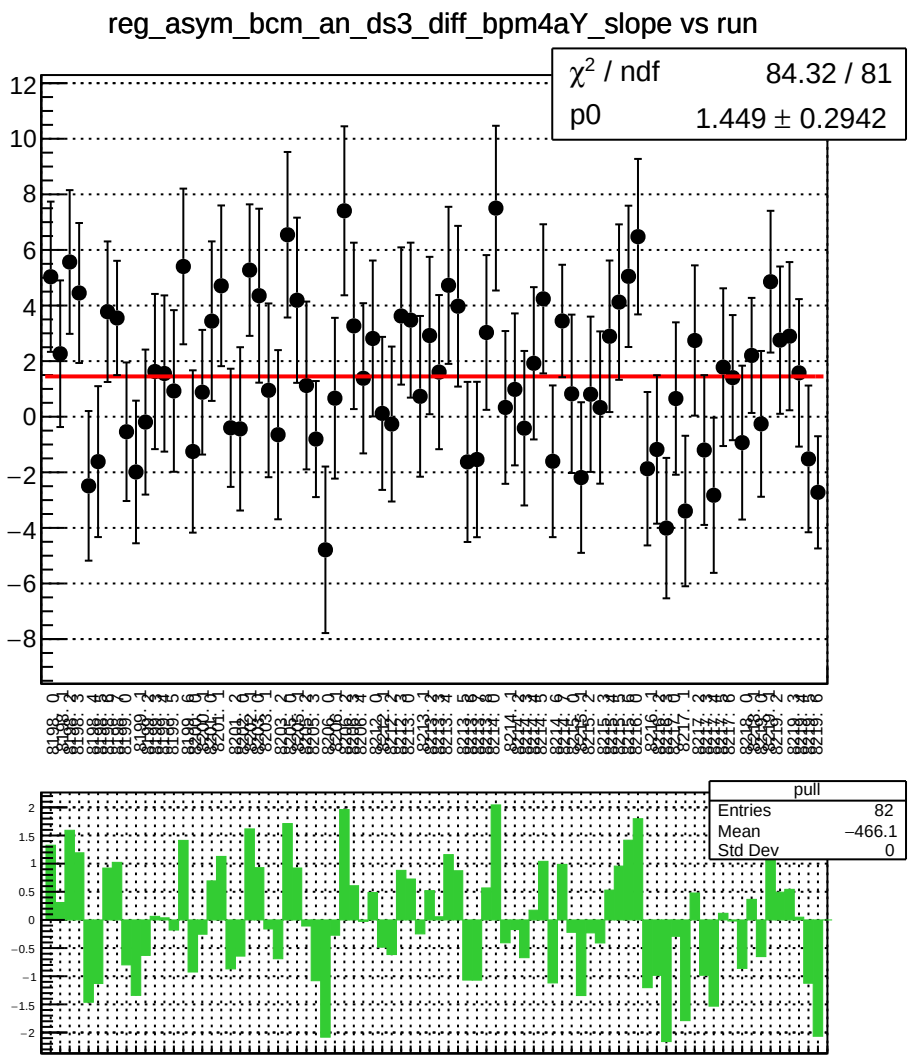

pull1D
Entries 82
Mean 0.01248
Std Dev 0.9652

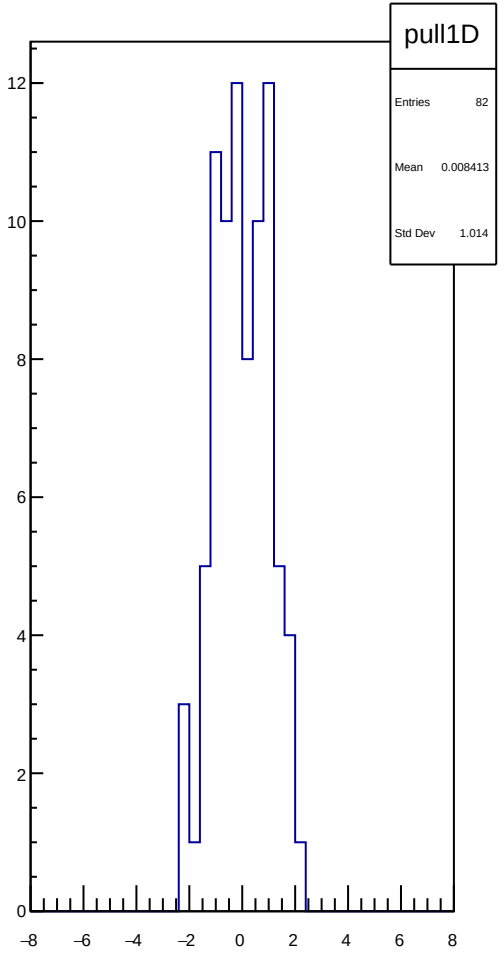

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.11 / 81
p0 4.778 ± 2.043
pull
Entries 82
Mean −649.1
Std Dev 0
pull1D
Entries 82
Mean −0.002356
Std Dev 0.8703

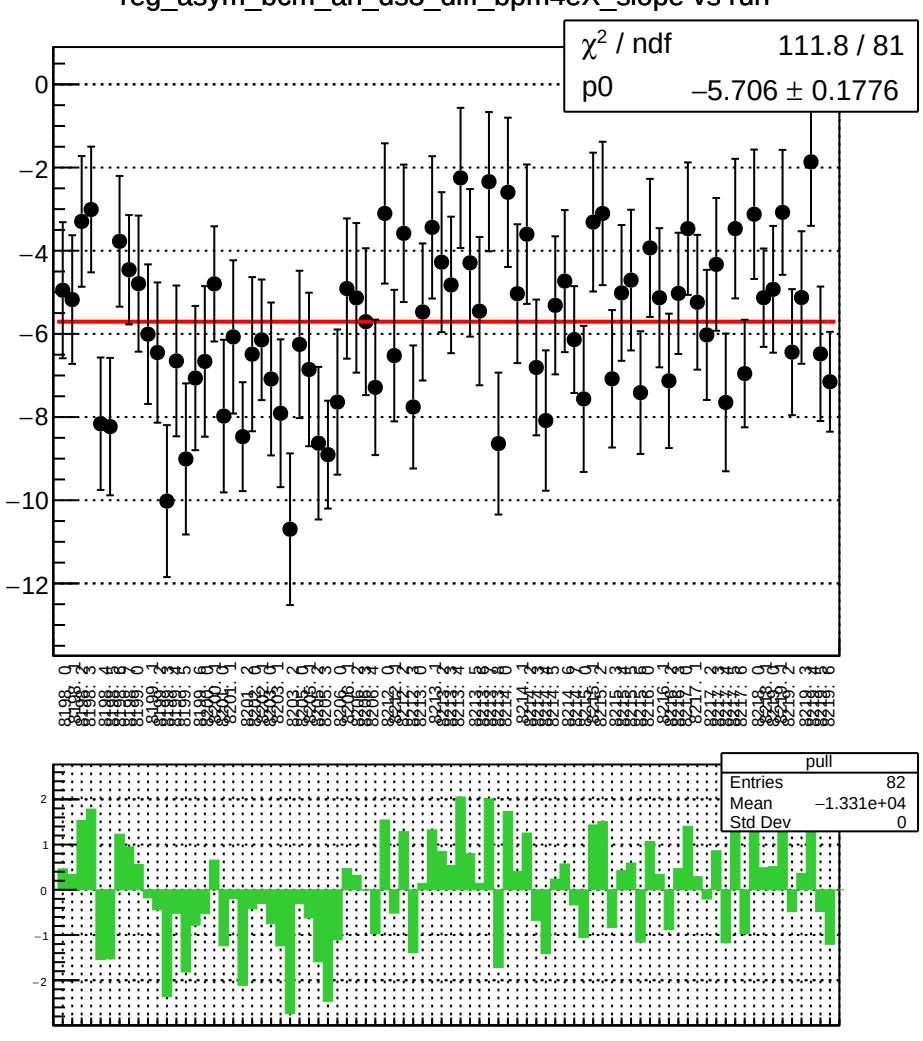

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 291.7 / 81
p0 −23.76 ± 0.09267
pull
Entries 82
Mean −481.3
Std Dev 0

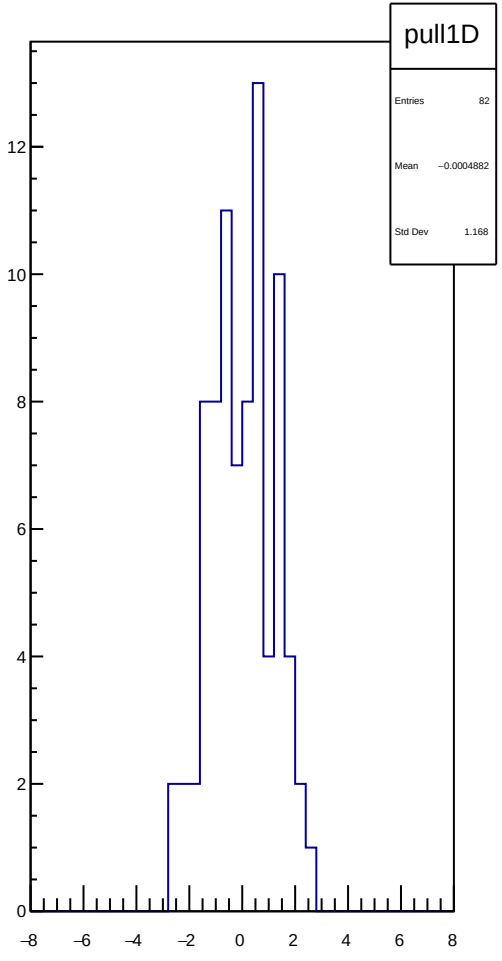

pull1D
Entries 82
Mean −0.06059
Std Dev 1.885

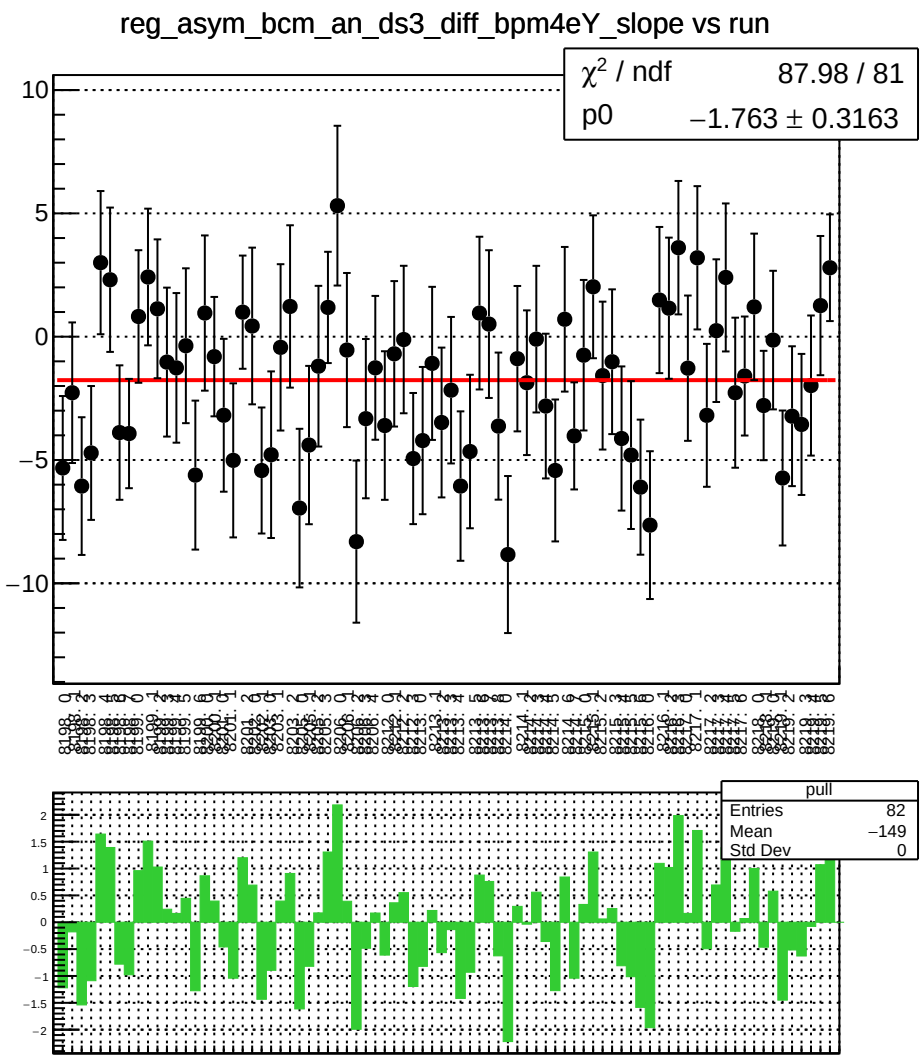

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 129 / 81
p0 6.603 ± 0.1771
pull
Entries 82
Mean −513.8
Std Dev 0
pull1D
Entries 82
Mean 0.01717
Std Dev 1.254

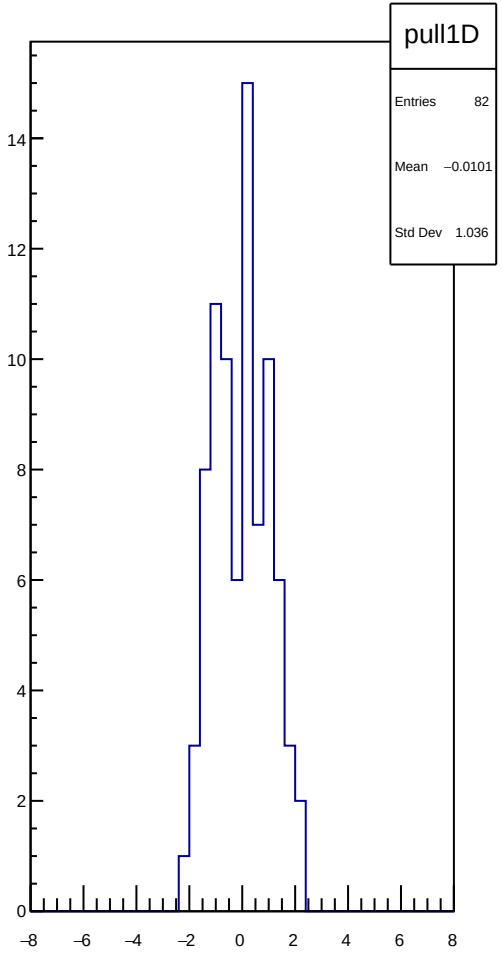

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 84.32 / 81
p0 1.449 ± 0.2942
pull
Entries 82
Mean −466.1
Std Dev 0

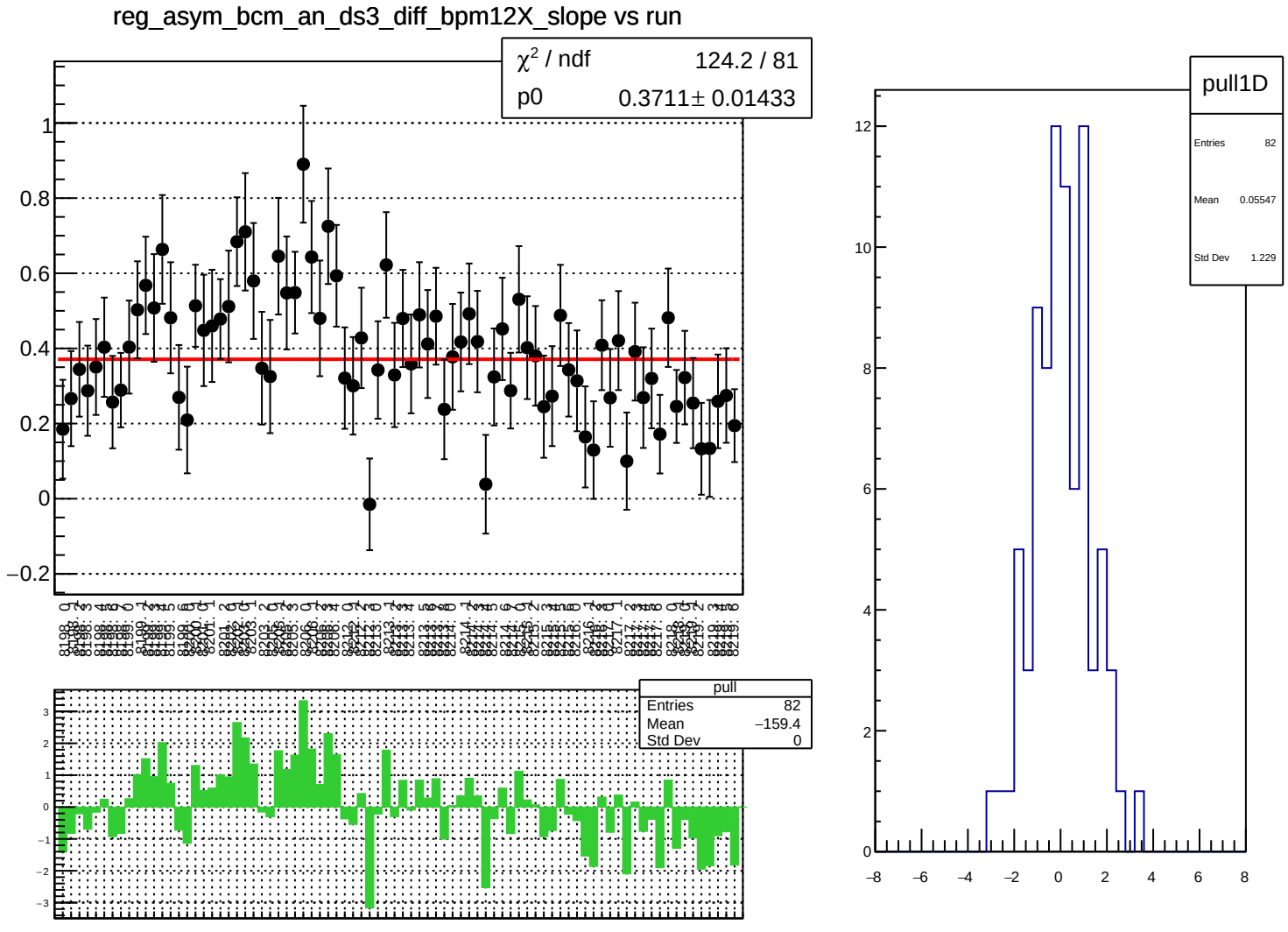

pull1D
Entries 82
Mean 0.008413
Std Dev 1.014

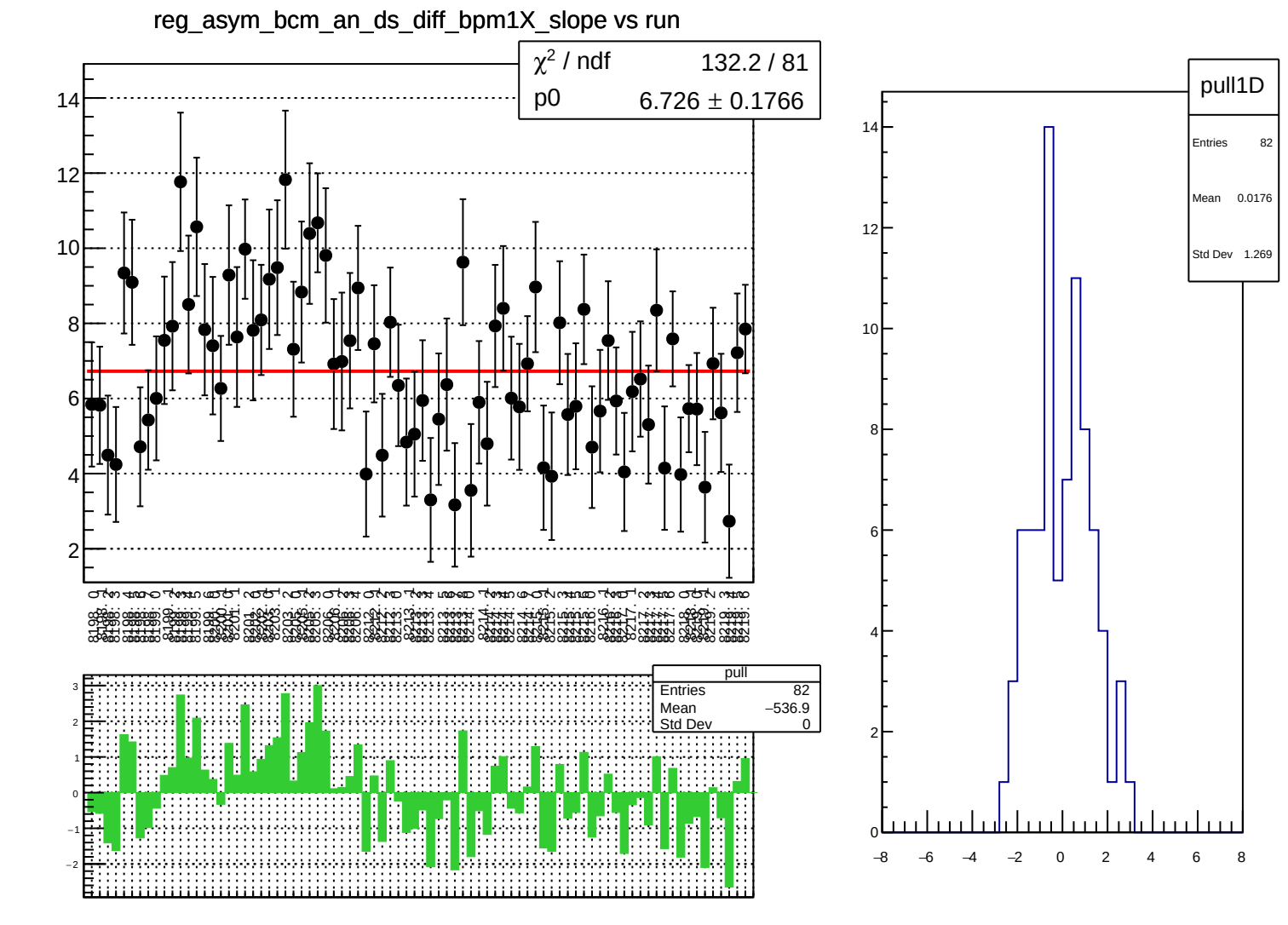

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 111.8 / 81
p0 −5.706 ± 0.1776
pull
Entries 82
Mean −1.331e+04
Std Dev 0

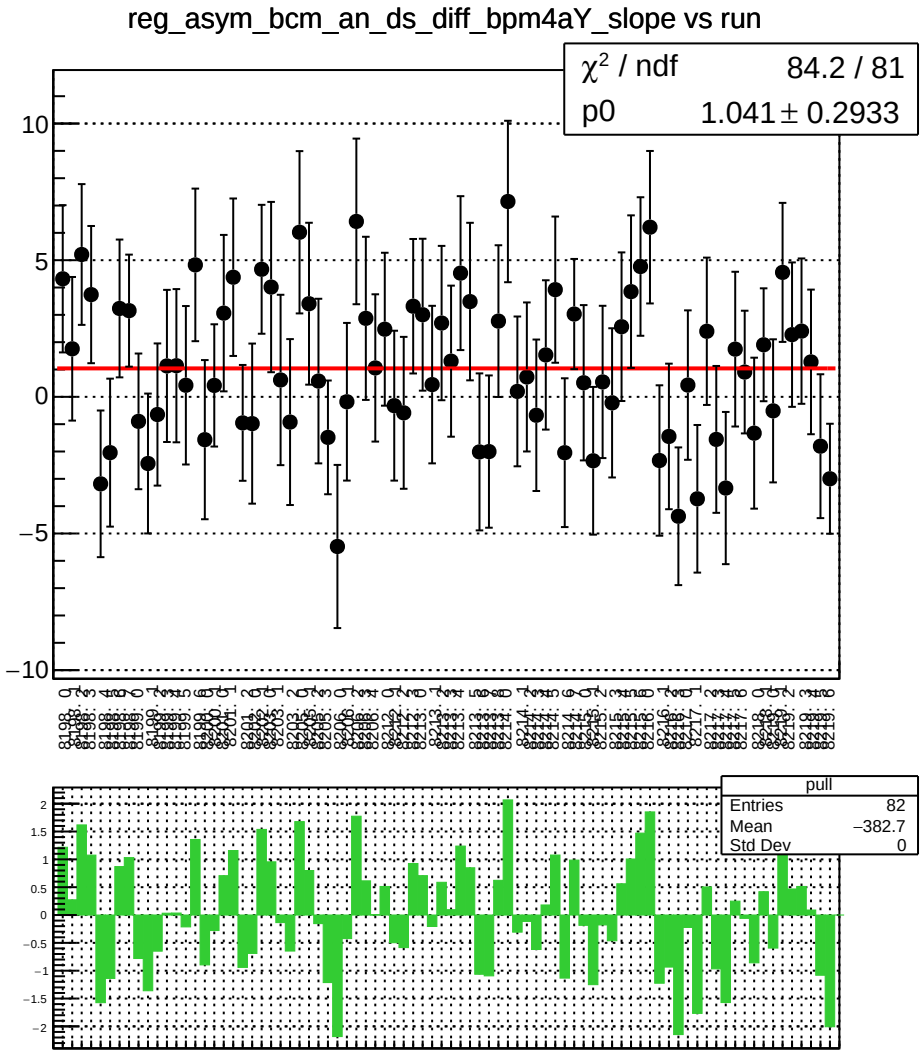

pull1D
Entries 82
Mean −0.0004882
Std Dev 1.168

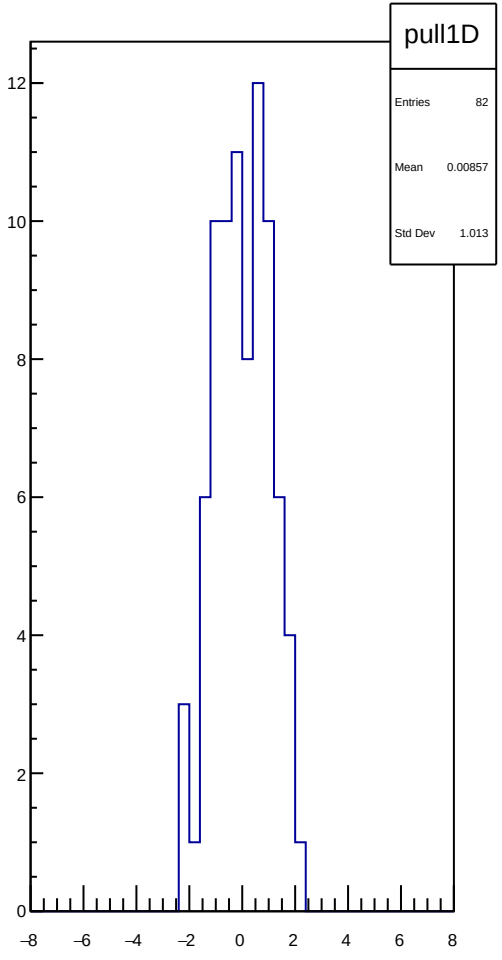

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 87.98 / 81
p0 −1.763 ± 0.3163
pull
Entries 82
Mean −149
Std Dev 0

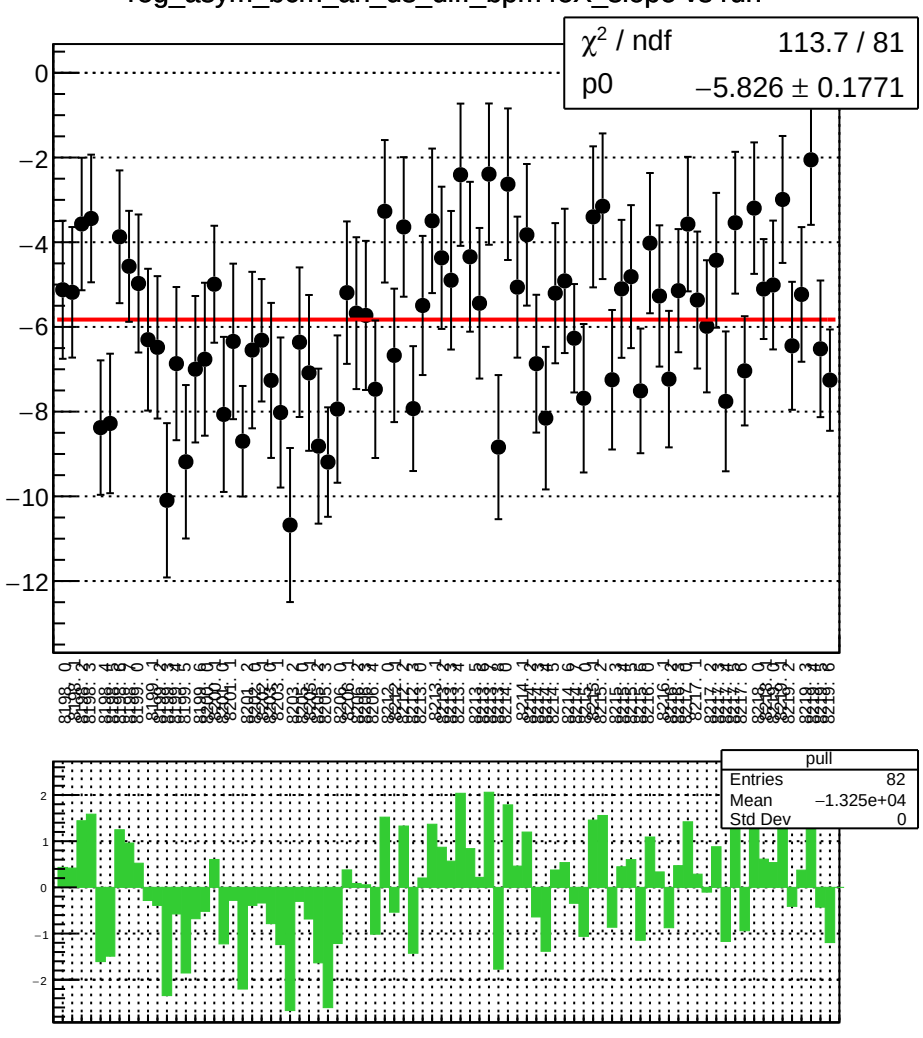

pull1D
Entries 82
Mean −0.0101
Std Dev 1.036

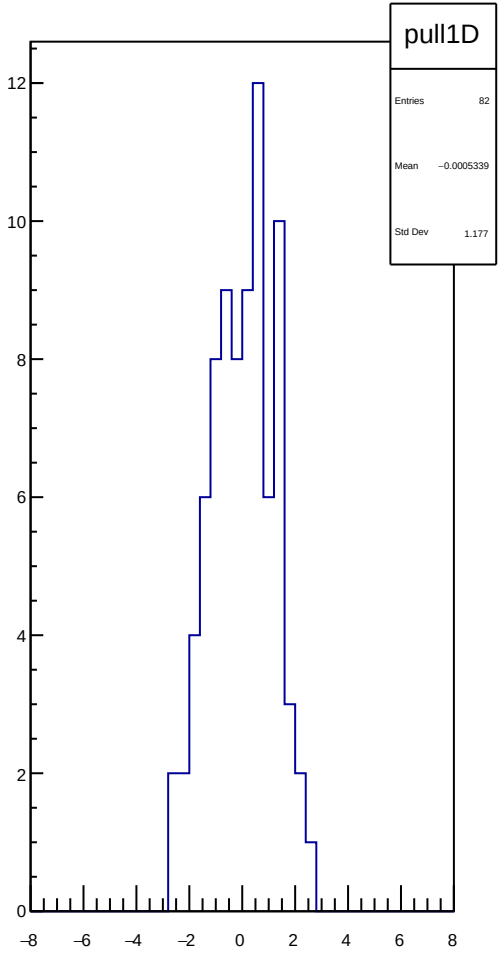

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 124.2 / 81
p0 0.3711± 0.01433
pull
Entries 82
Mean −159.4
Std Dev 0
pull1D
Entries 82
Mean 0.05547
Std Dev 1.229

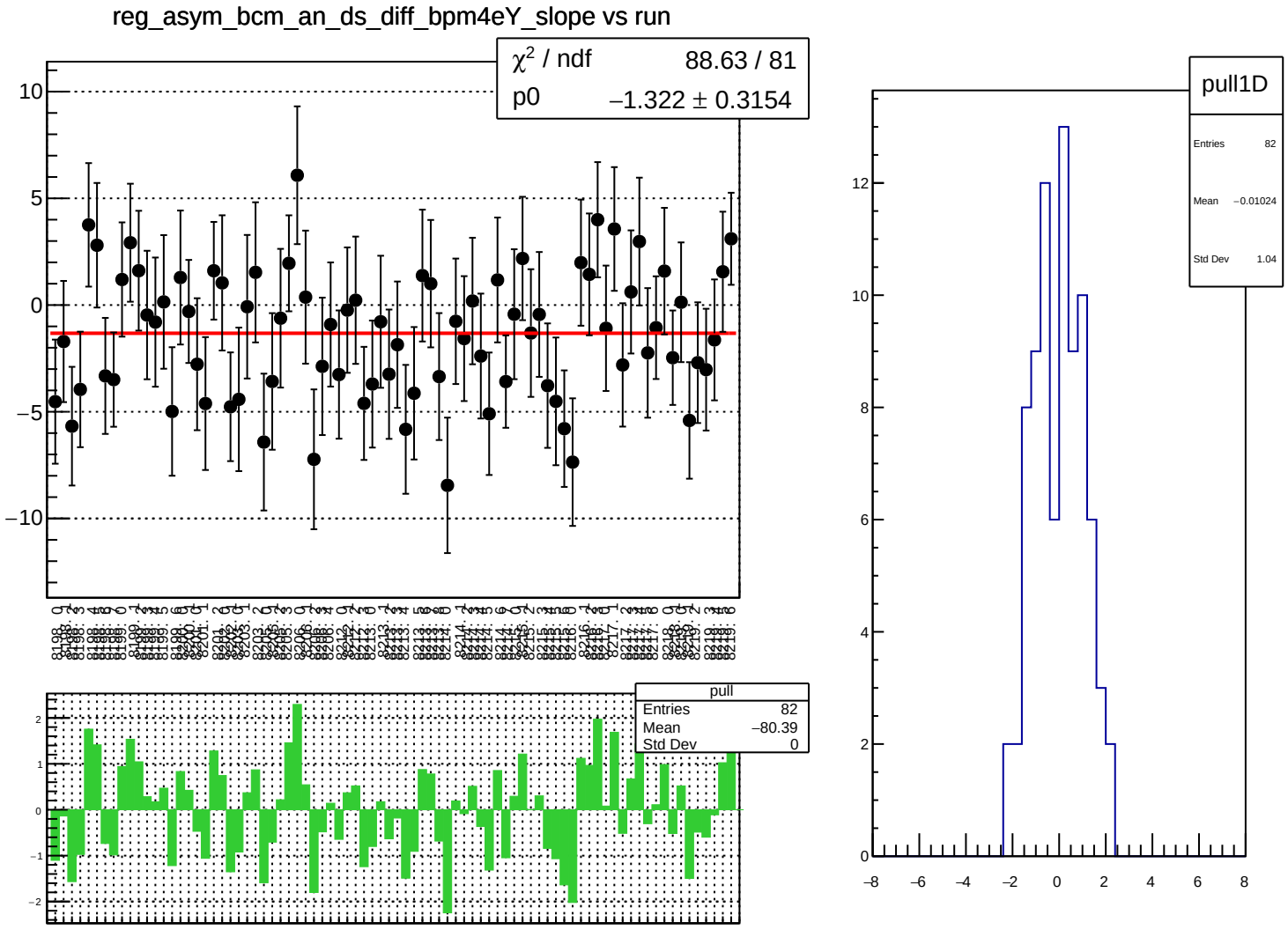

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 132.2 / 81
p0 6.726 ± 0.1766
pull
Entries 82
Mean −536.9
Std Dev 0
pull1D
Entries 82
Mean 0.0176
Std Dev 1.269

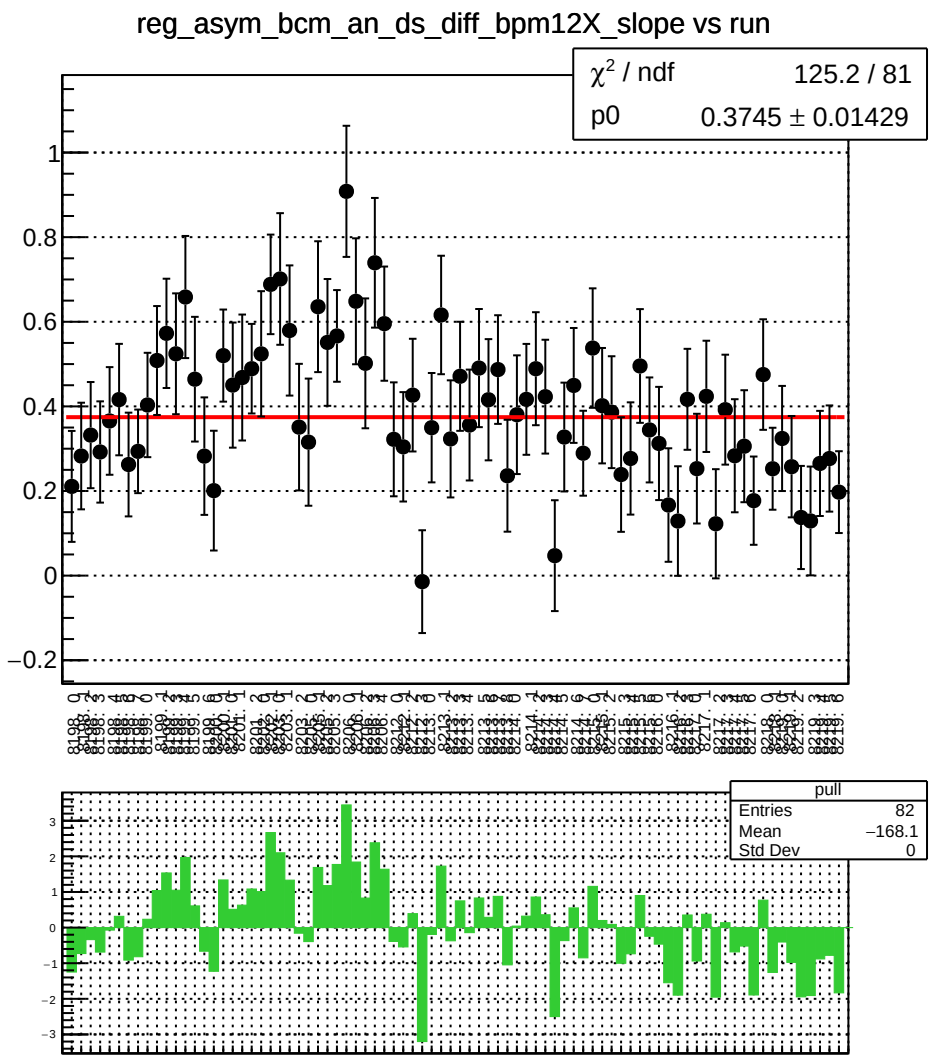

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 84.2 / 81
p0 1.041 ± 0.2933
pull
Entries 82
Mean −382.7
Std Dev 0

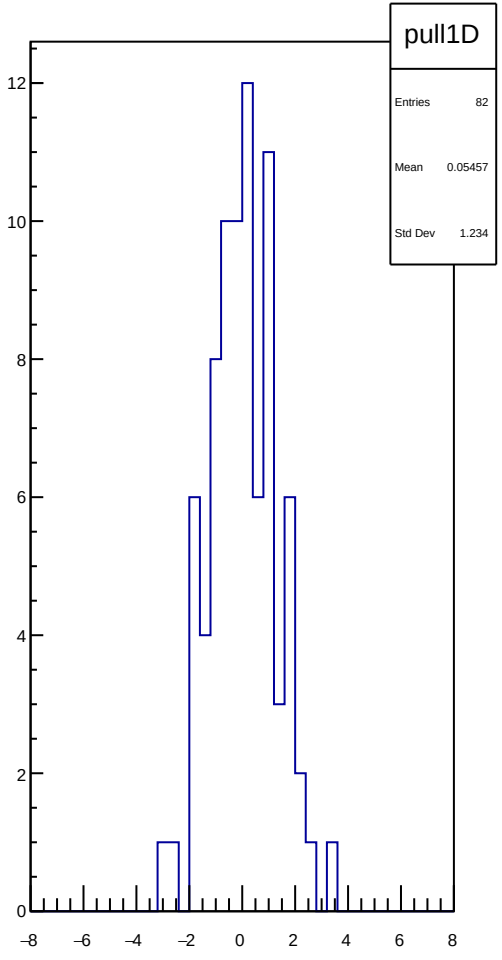

pull1D
Entries 82
Mean 0.00857
Std Dev 1.013

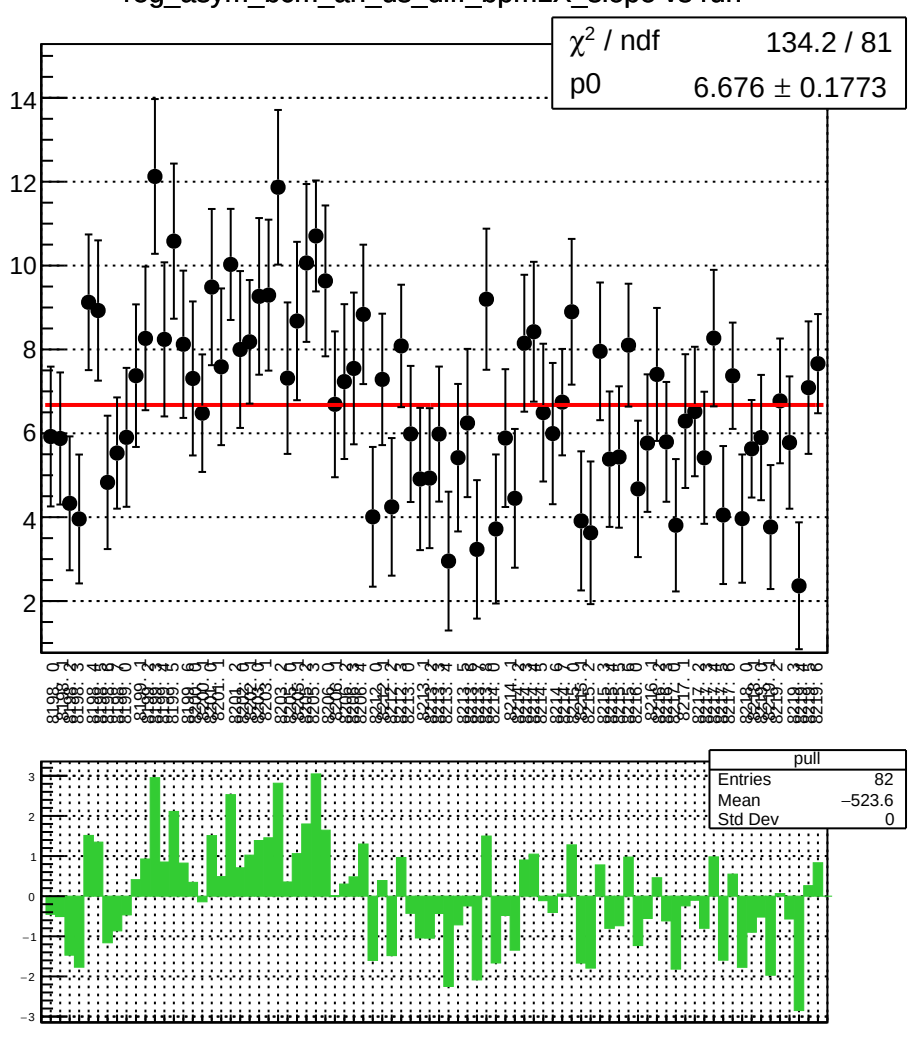

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 113.7 / 81
p0 −5.826 ± 0.1771
pull
Entries 82
Mean −1.325e+04
Std Dev 0

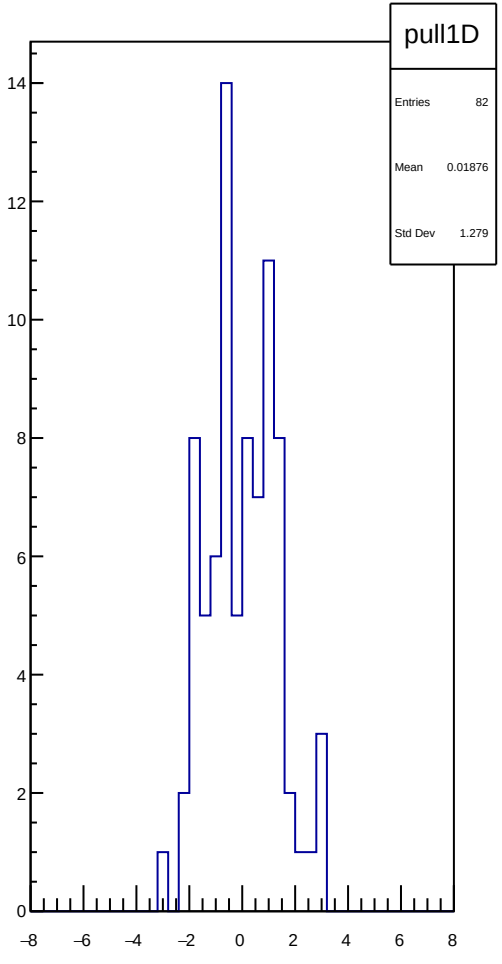

pull1D
Entries 82
Mean −0.0005339
Std Dev 1.177

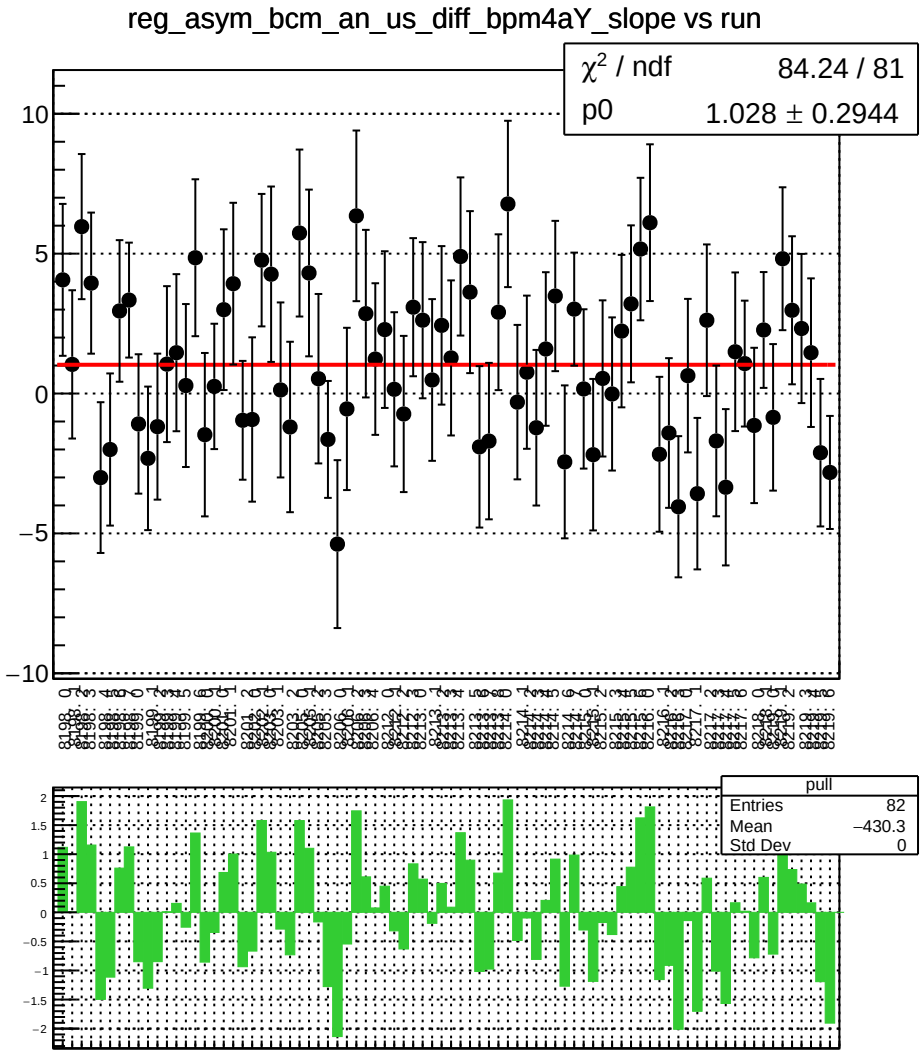

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 88.63 / 81
p0 −1.322 ± 0.3154
pull
Entries 82
Mean −80.39
Std Dev 0
pull1D
Entries 82
Mean −0.01024
Std Dev 1.04

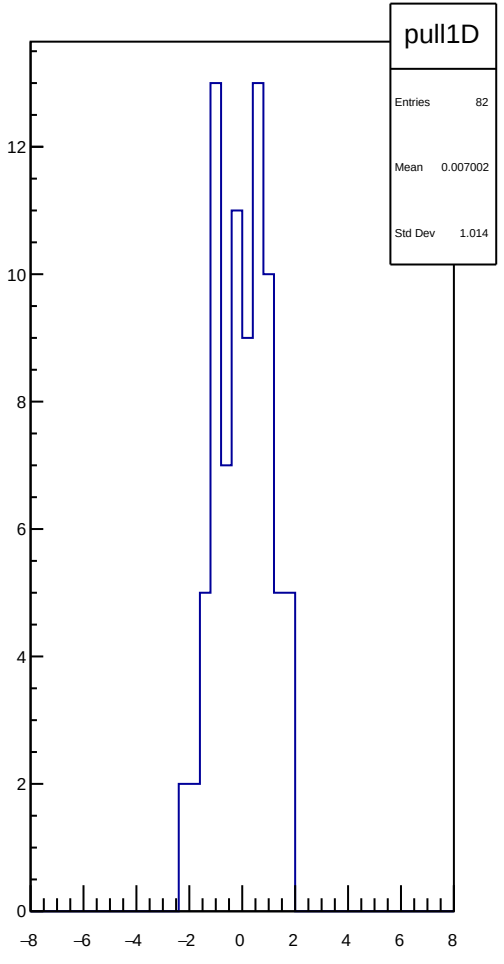

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
$\chi^2$ / ndf 125.2 / 81
p0 0.3745 ± 0.01429
pull
Entries 82
Mean −168.1
Std Dev 0

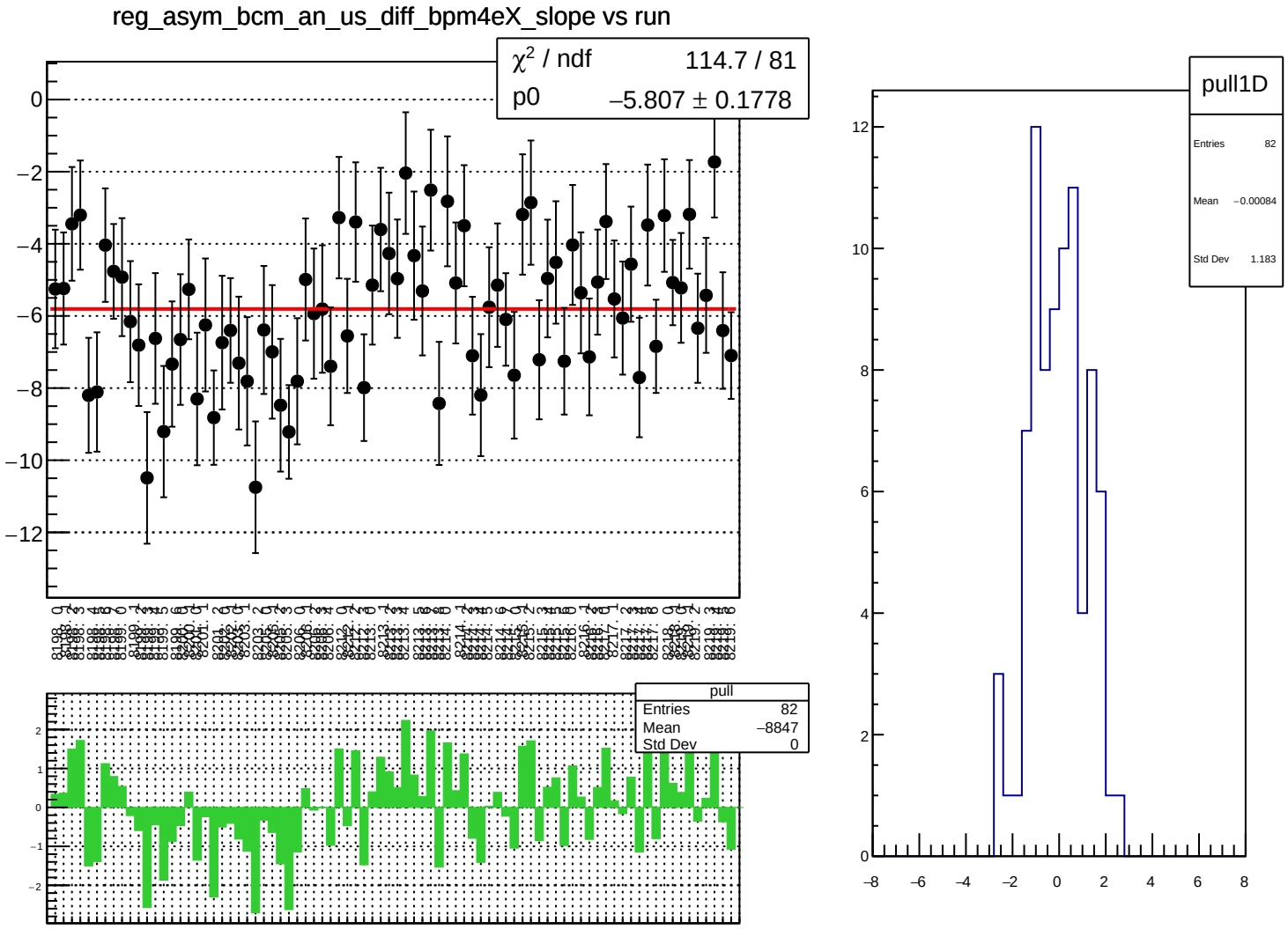

pull1D
Entries 82
Mean 0.05457
Std Dev 1.234

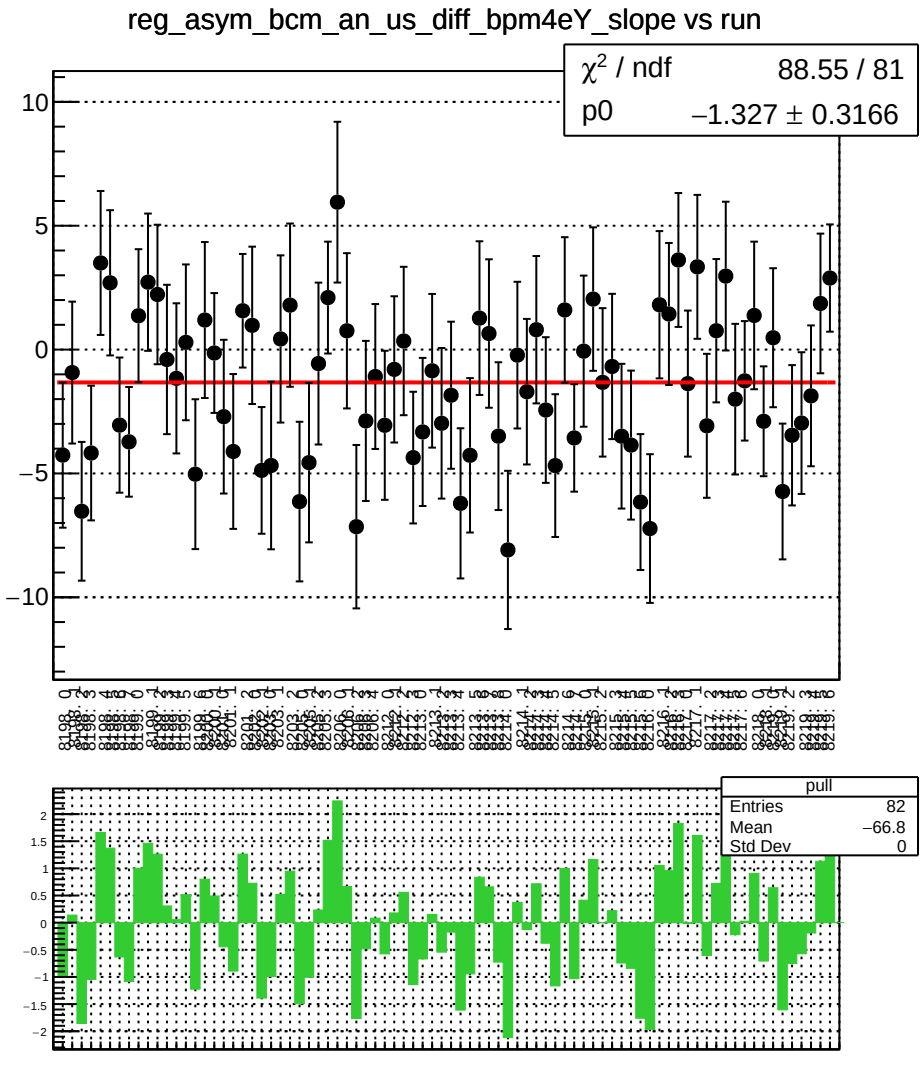

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 134.2 / 81
p0 6.676 ± 0.1773
pull
Entries 82
Mean −523.6
Std Dev 0

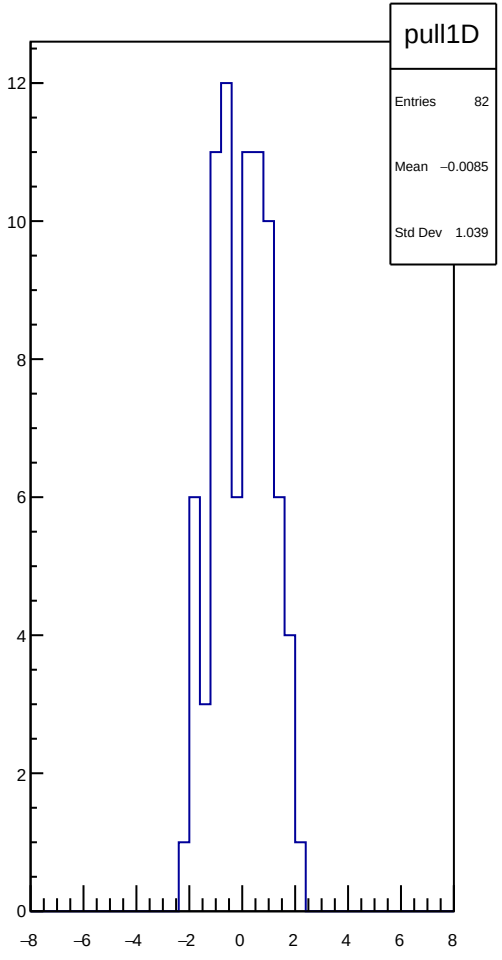

pull1D
Entries 82
Mean 0.01876
Std Dev 1.279

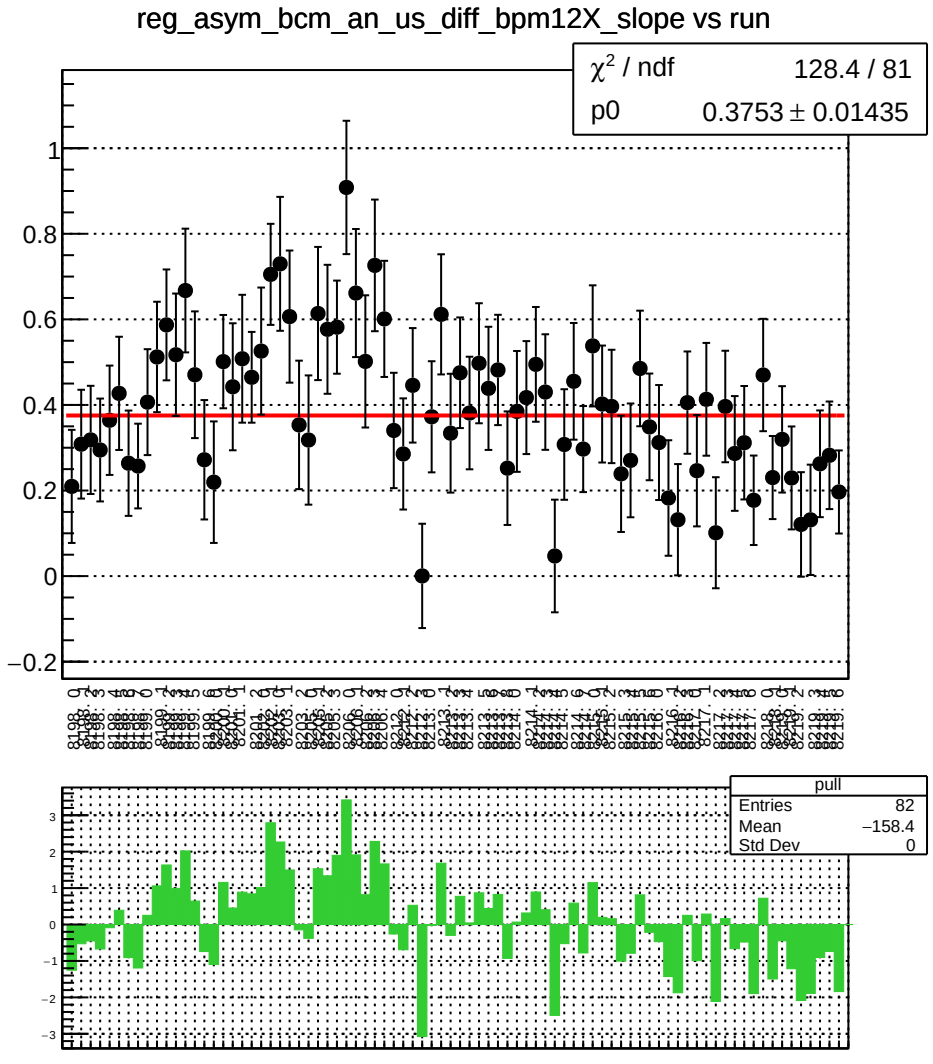

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 84.24 / 81
p0 1.028 ± 0.2944
pull
Entries 82
Mean −430.3
Std Dev 0

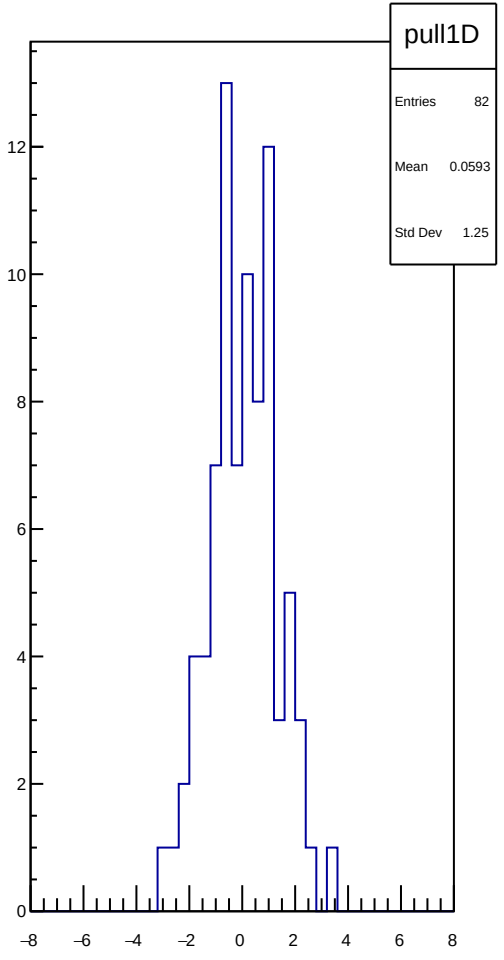

pull1D
Entries 82
Mean 0.007002
Std Dev 1.014

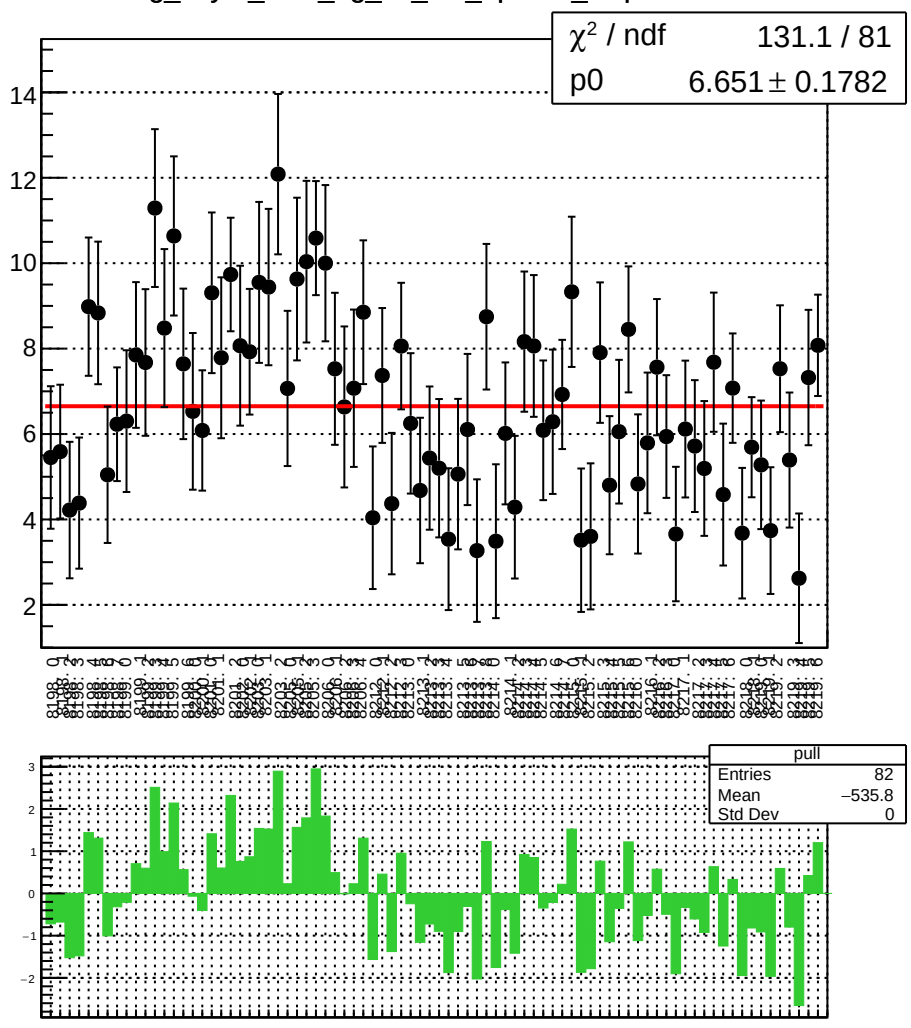

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 114.7 / 81
p0 −5.807 ± 0.1778
pull
Entries 82
Mean −8847
Std Dev 0
pull1D
Entries 82
Mean −0.00084
Std Dev 1.183

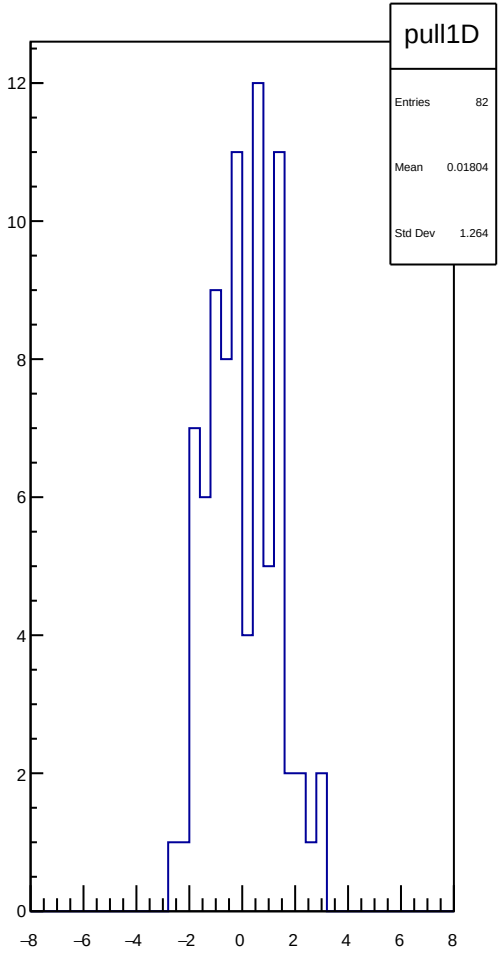

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 88.55 / 81
p0 −1.327 ± 0.3166
pull
Entries 82
Mean −66.8
Std Dev 0

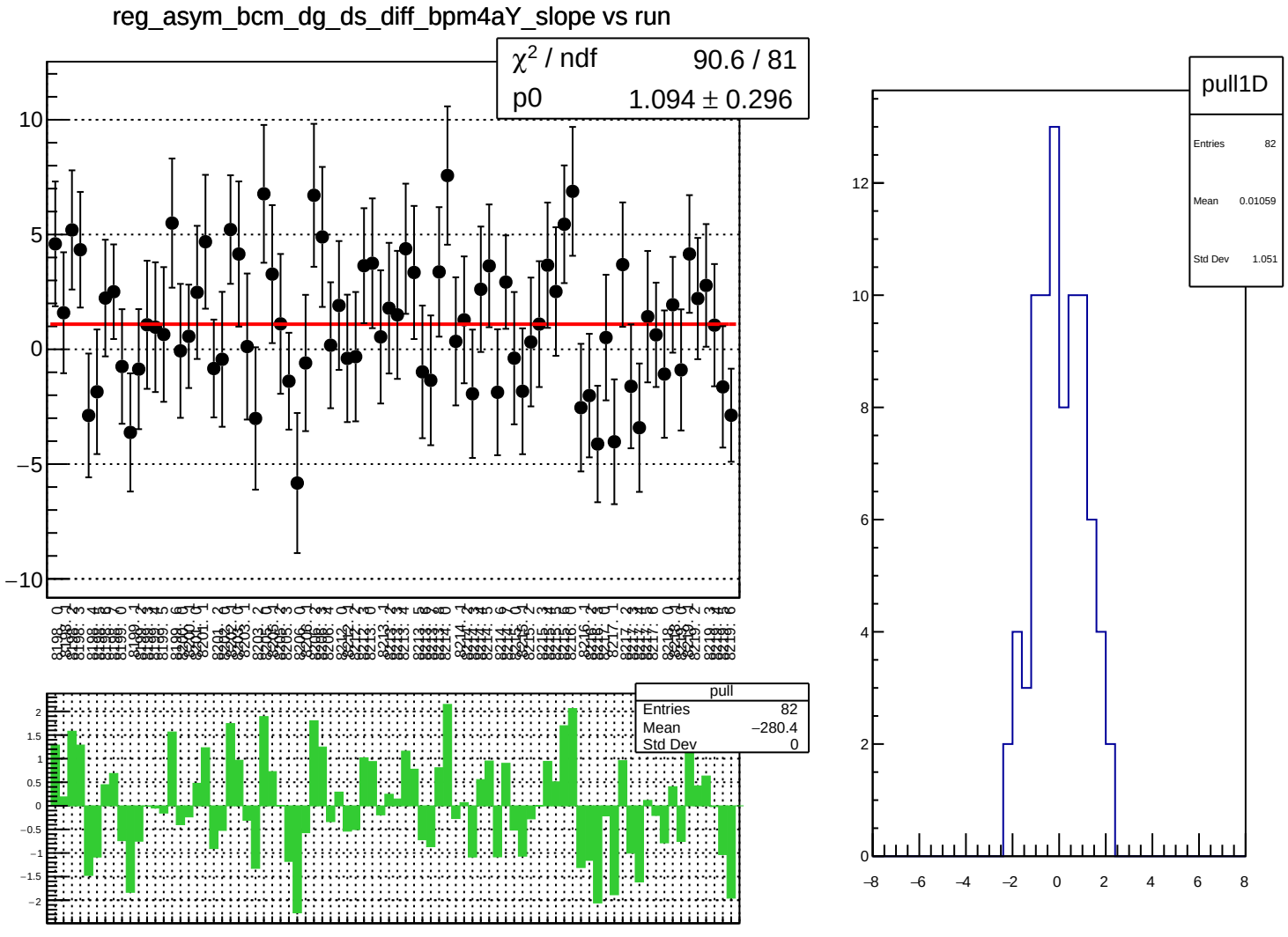

pull1D
Entries 82
Mean −0.0085
Std Dev 1.039

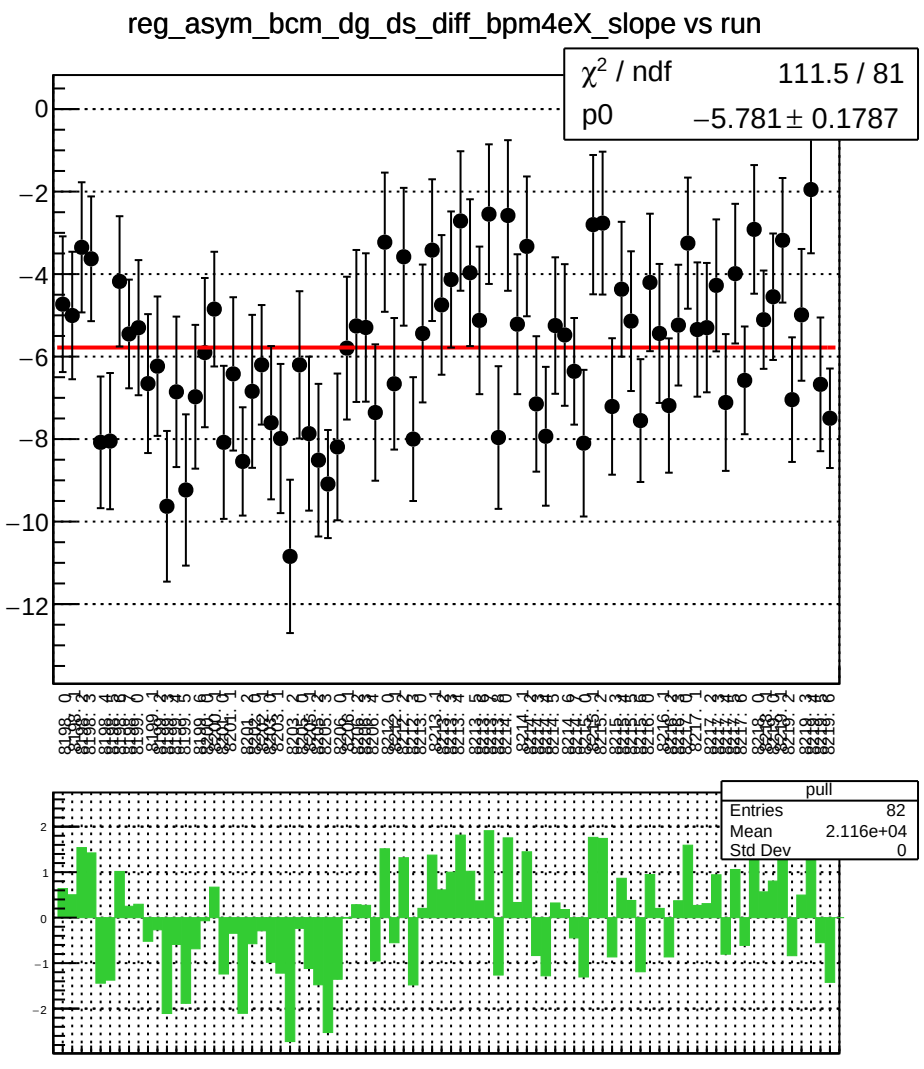

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 128.4 / 81
p0 0.3753 ± 0.01435
pull
Entries 82
Mean −158.4
Std Dev 0

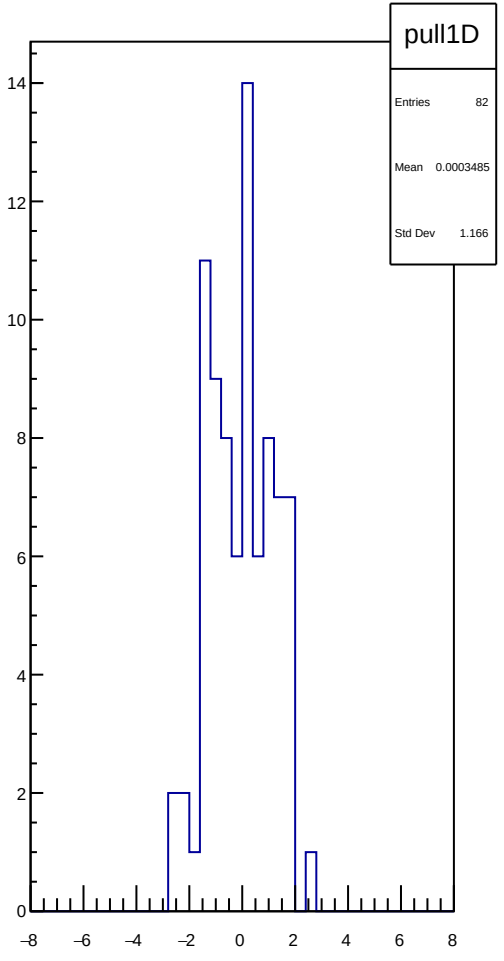

pull1D
Entries 82
Mean 0.0593
Std Dev 1.25

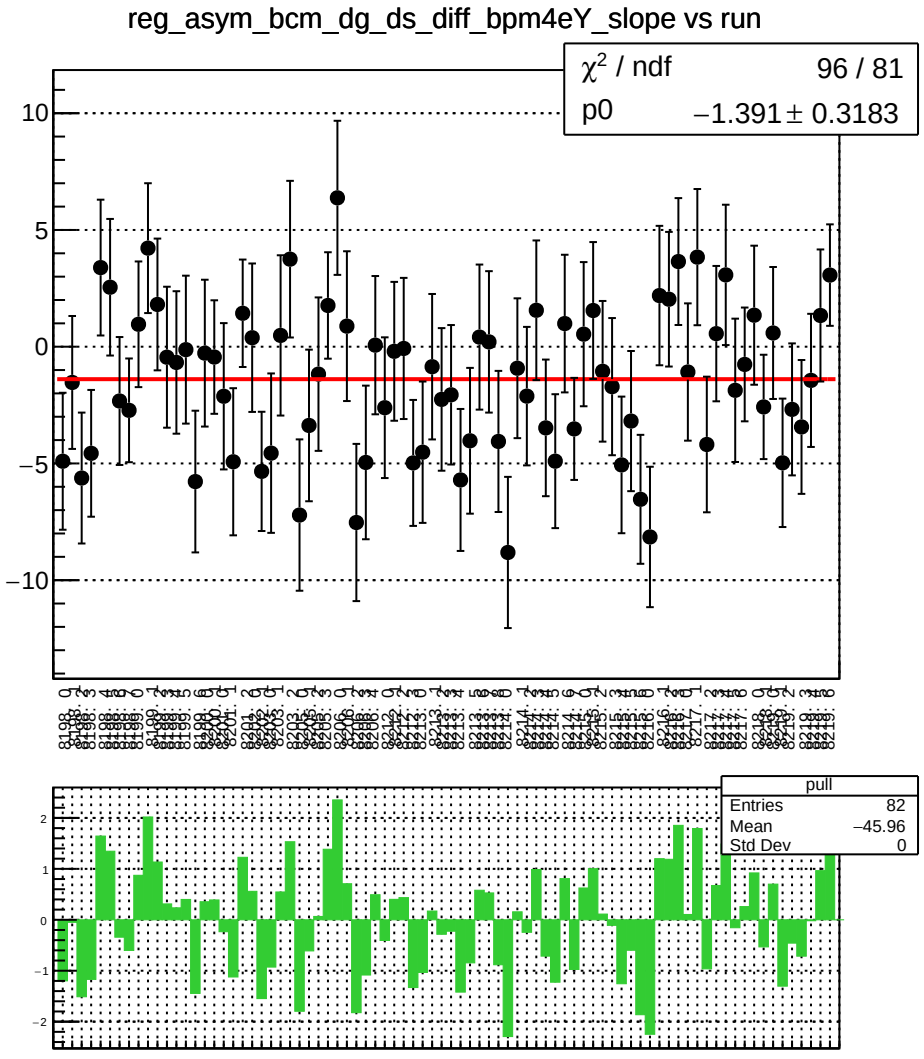

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 131.1 / 81
p0 6.651 ± 0.1782
pull
Entries 82
Mean −535.8
Std Dev 0

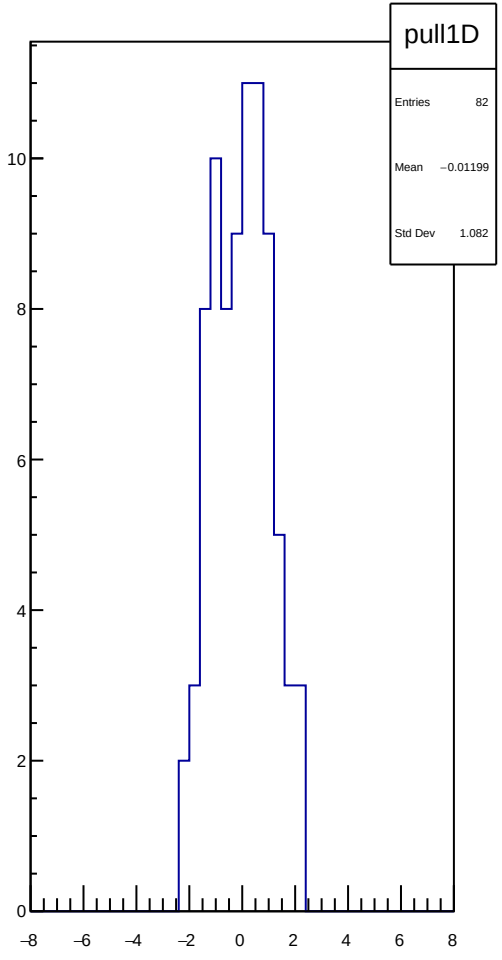

pull1D
Entries 82
Mean 0.01804
Std Dev 1.264

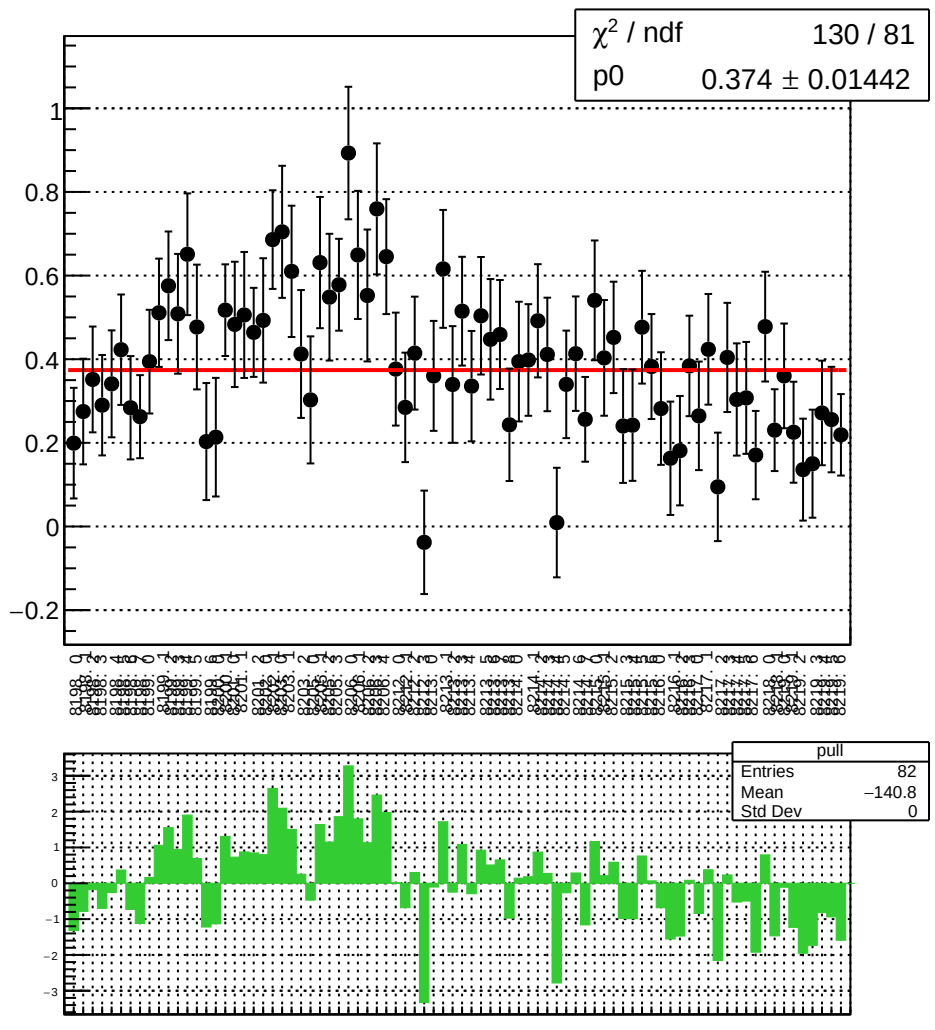

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 90.6 / 81
p0 1.094 ± 0.296
pull
Entries 82
Mean −280.4
Std Dev 0
pull1D
Entries 82
Mean 0.01059
Std Dev 1.051

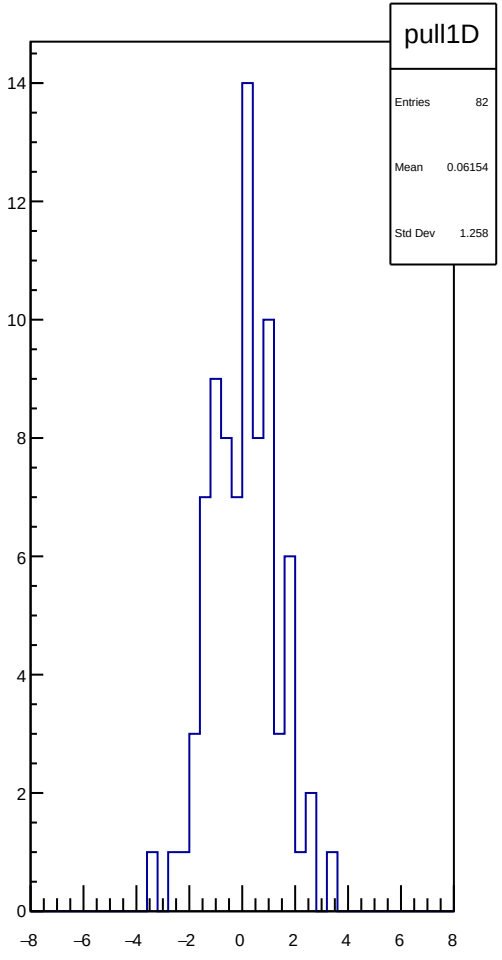

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 111.5 / 81
p0 −5.781 ± 0.1787
pull
Entries 82
Mean 2.116e+04
Std Dev 0

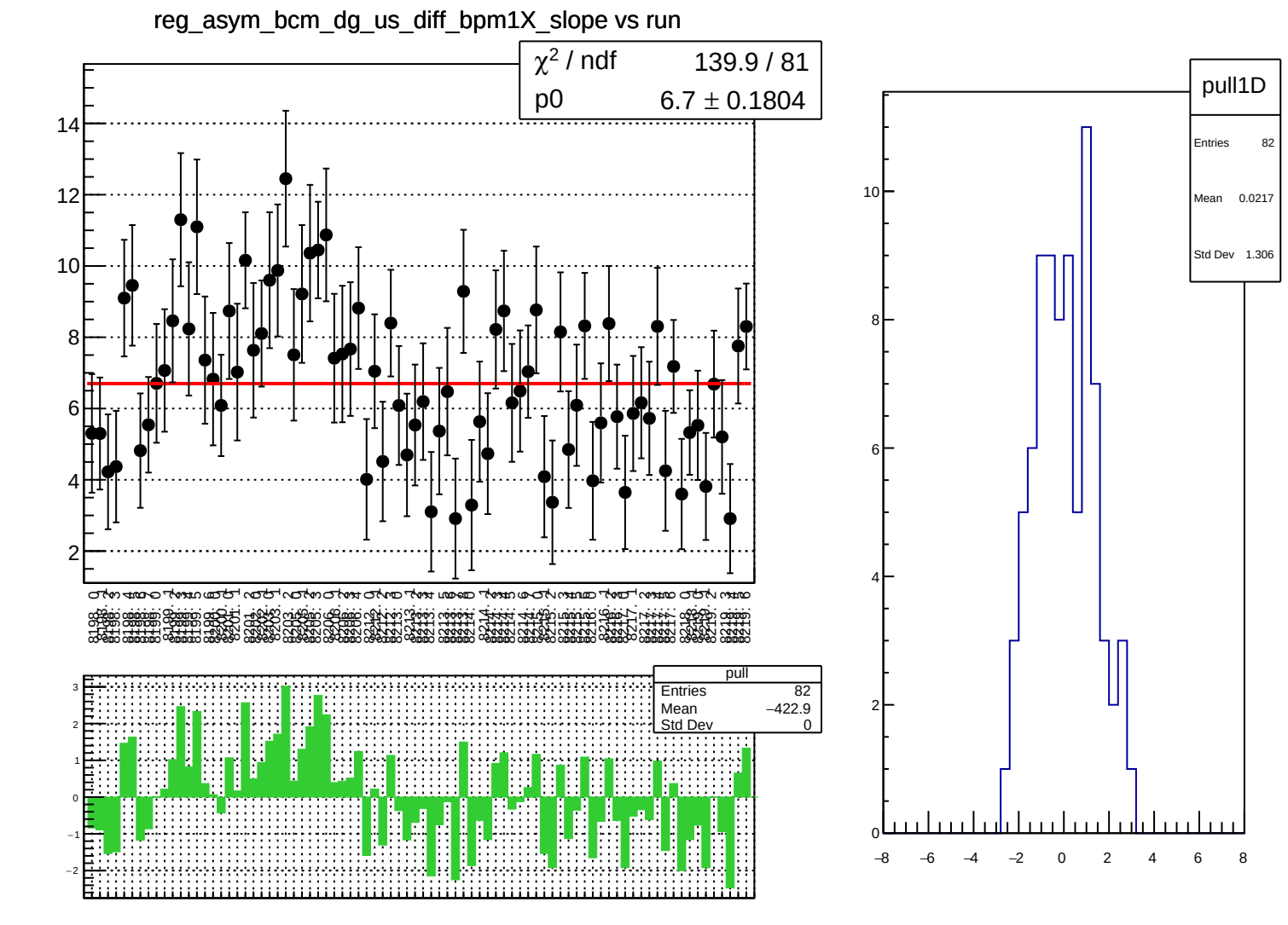

pull1D
Entries 82
Mean 0.0003485
Std Dev 1.166

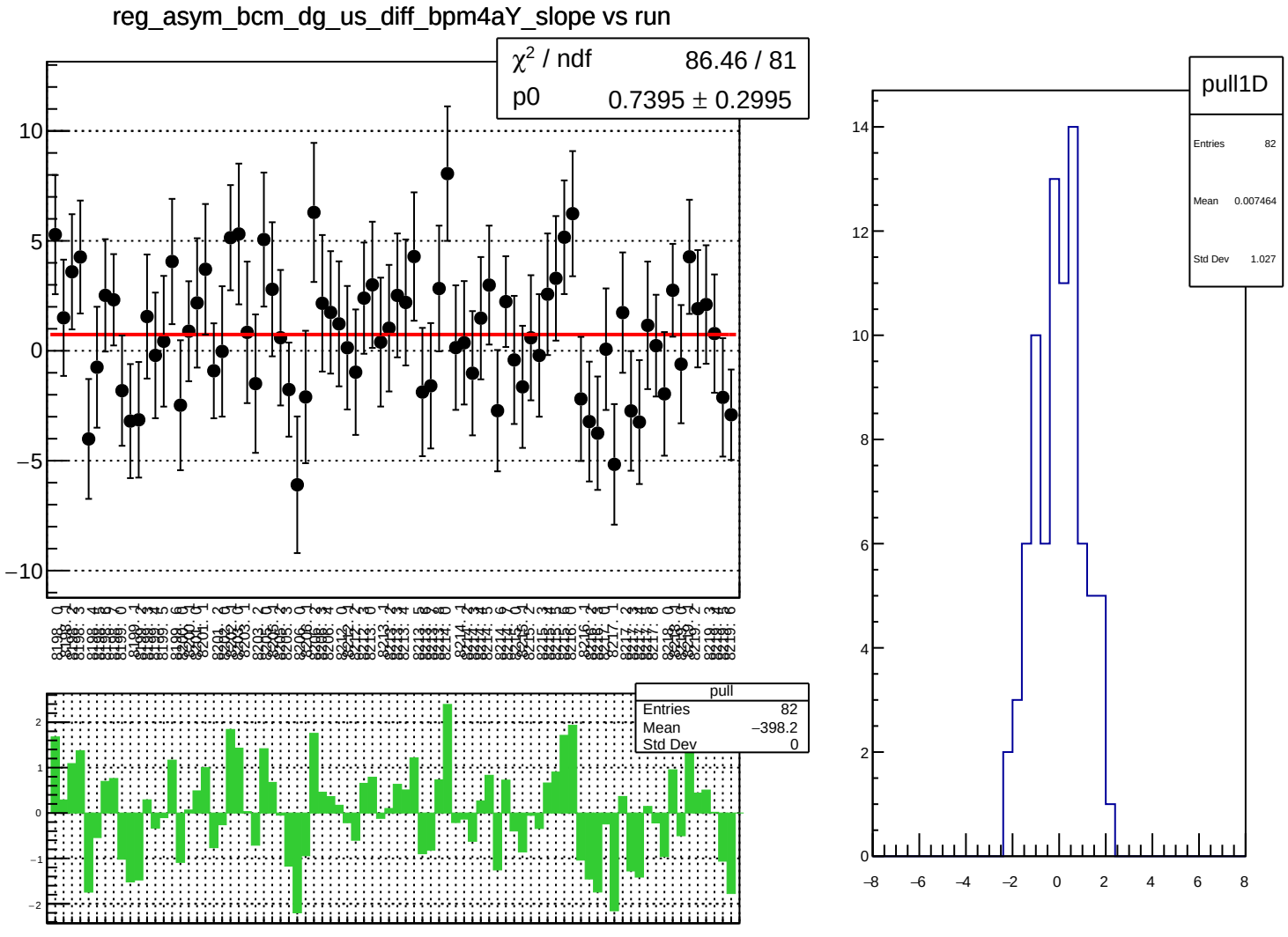

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 96 / 81
p0 −1.391 ± 0.3183
pull
Entries 82
Mean −45.96
Std Dev 0

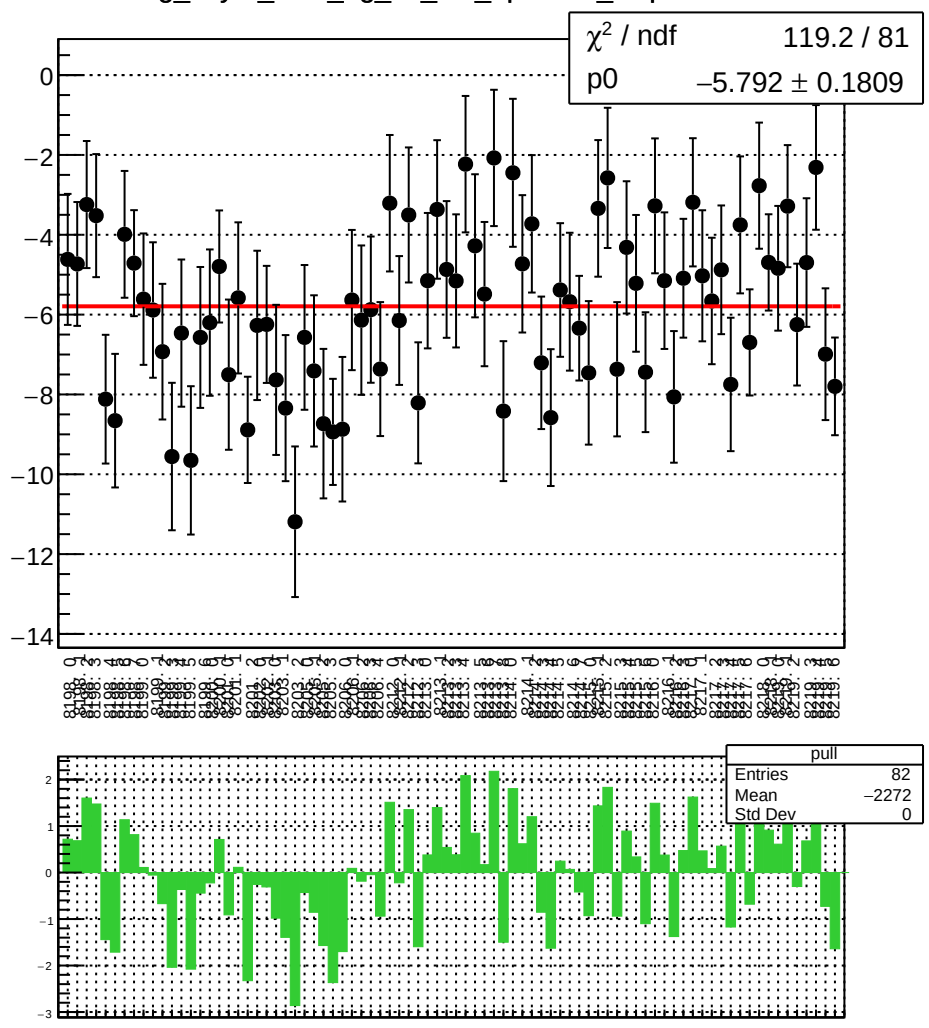

pull1D
Entries 82
Mean −0.01199
Std Dev 1.082

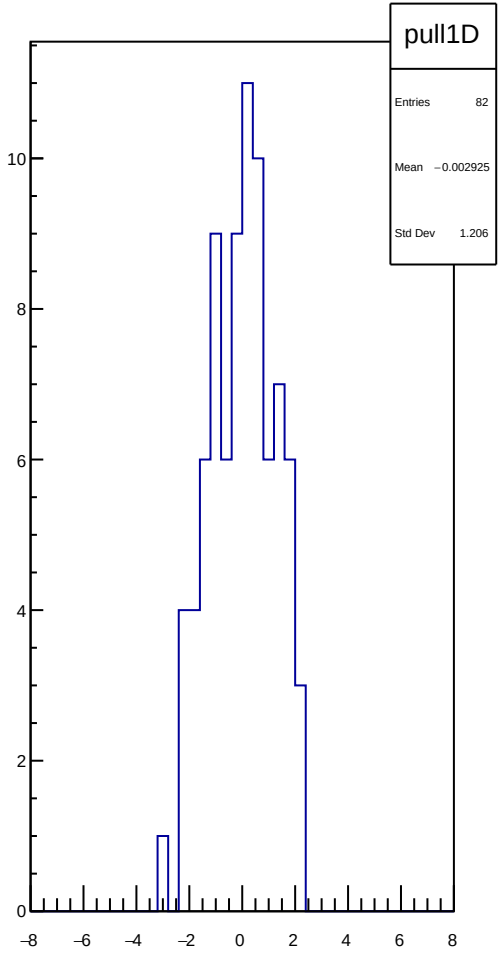

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 130 / 81
p0 0.374 ± 0.01442
pull
Entries 82
Mean −140.8
Std Dev 0

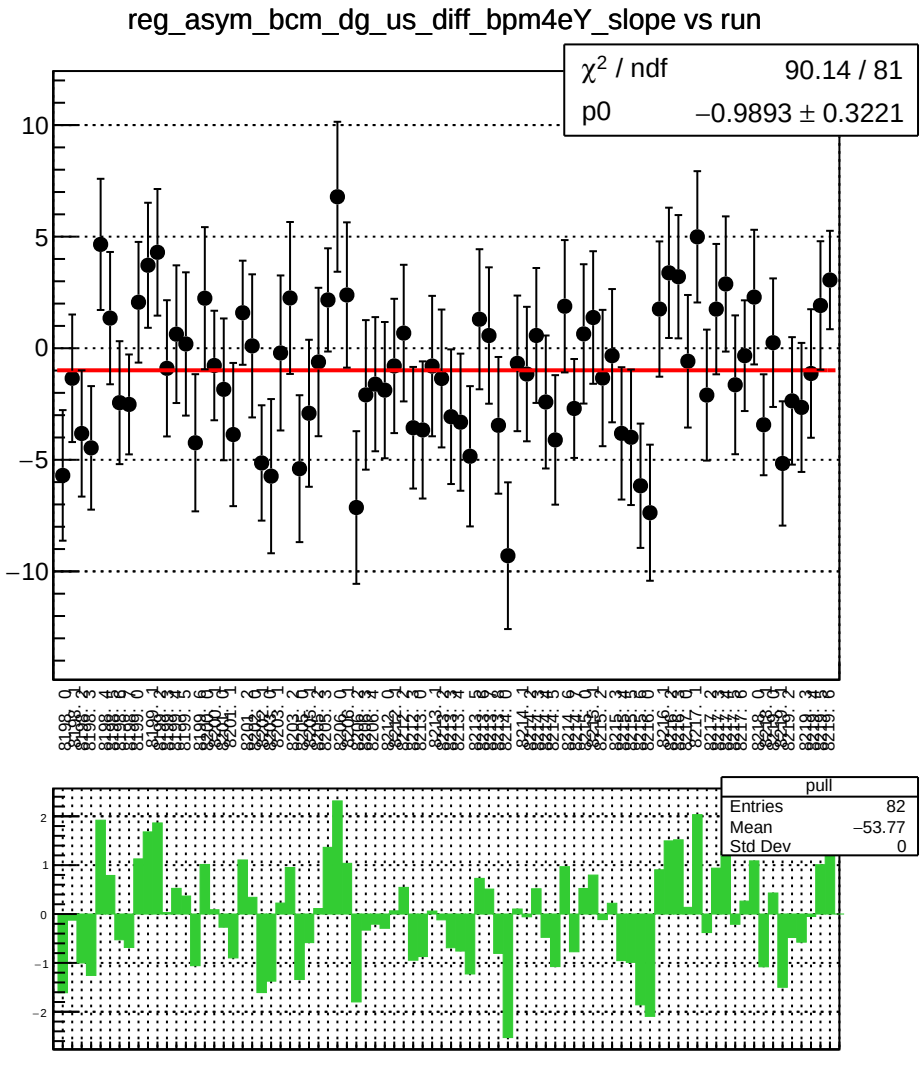

pull1D
Entries 82
Mean 0.06154
Std Dev 1.258

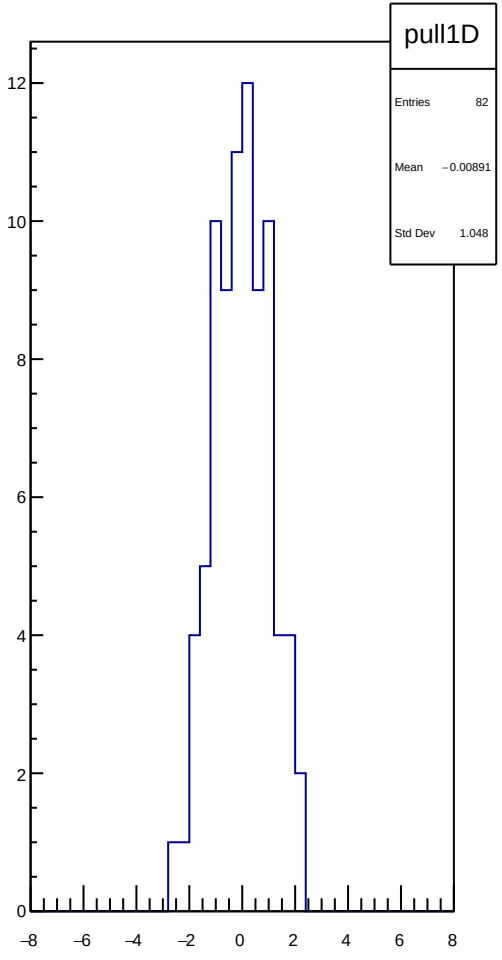

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 139.9 / 81
p0 6.7 ± 0.1804
pull
Entries 82
Mean −422.9
Std Dev 0
pull1D
Entries 82
Mean 0.0217
Std Dev 1.306

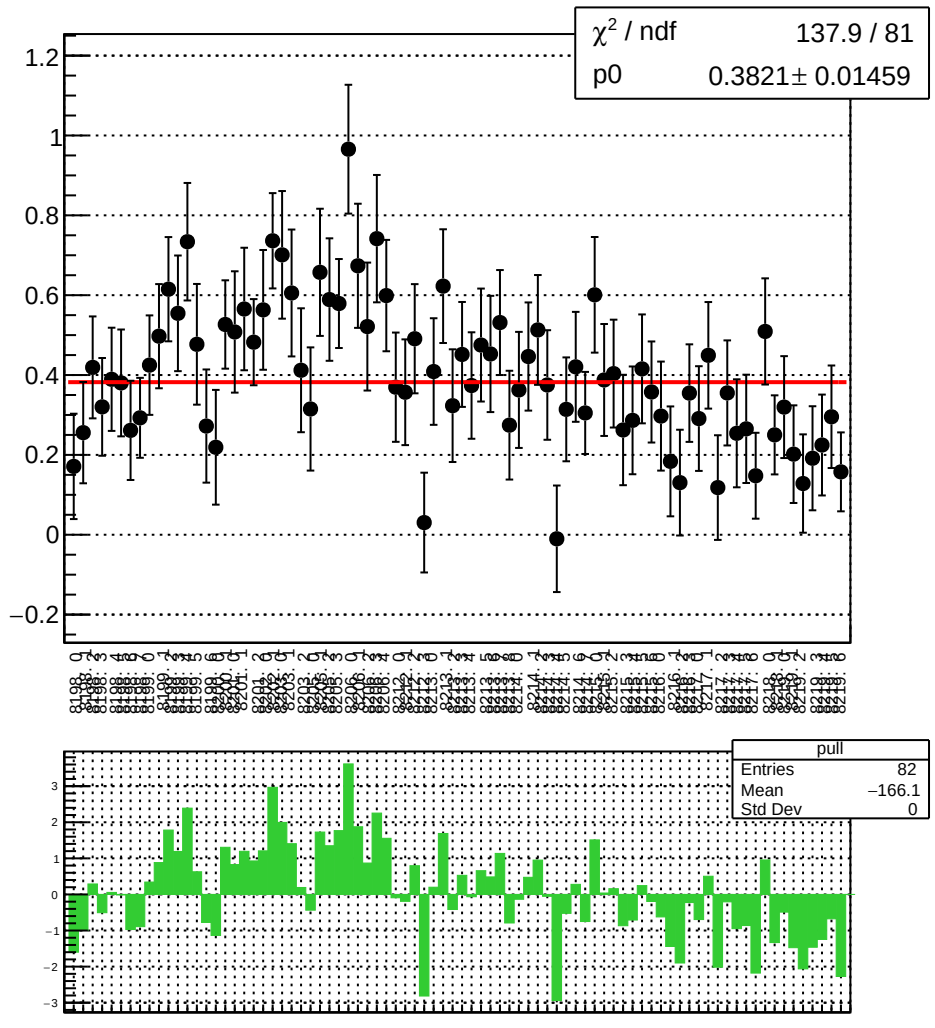

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 86.46 / 81
p0 0.7395 ± 0.2995
pull
Entries 82
Mean −398.2
Std Dev 0
pull1D
Entries 82
Mean 0.007464
Std Dev 1.027

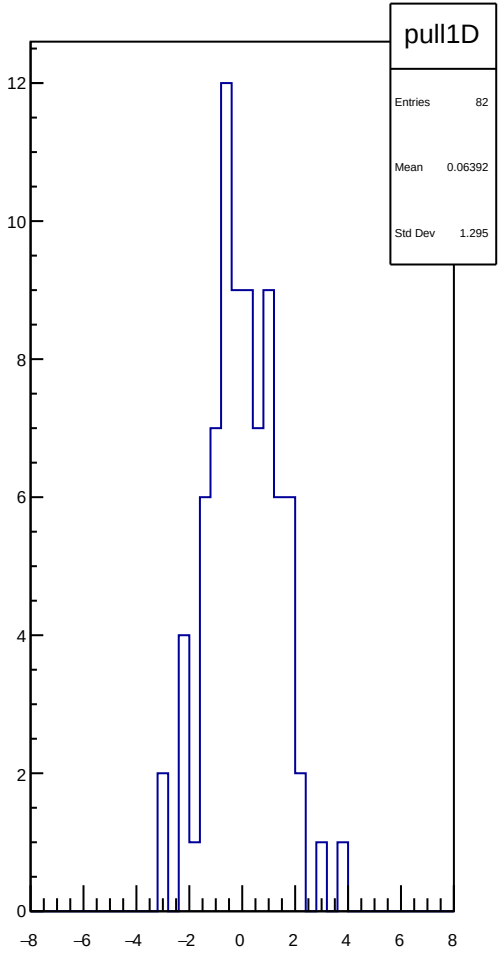

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 119.2 / 81
p0 −5.792 ± 0.1809
pull
Entries 82
Mean −2272
Std Dev 0

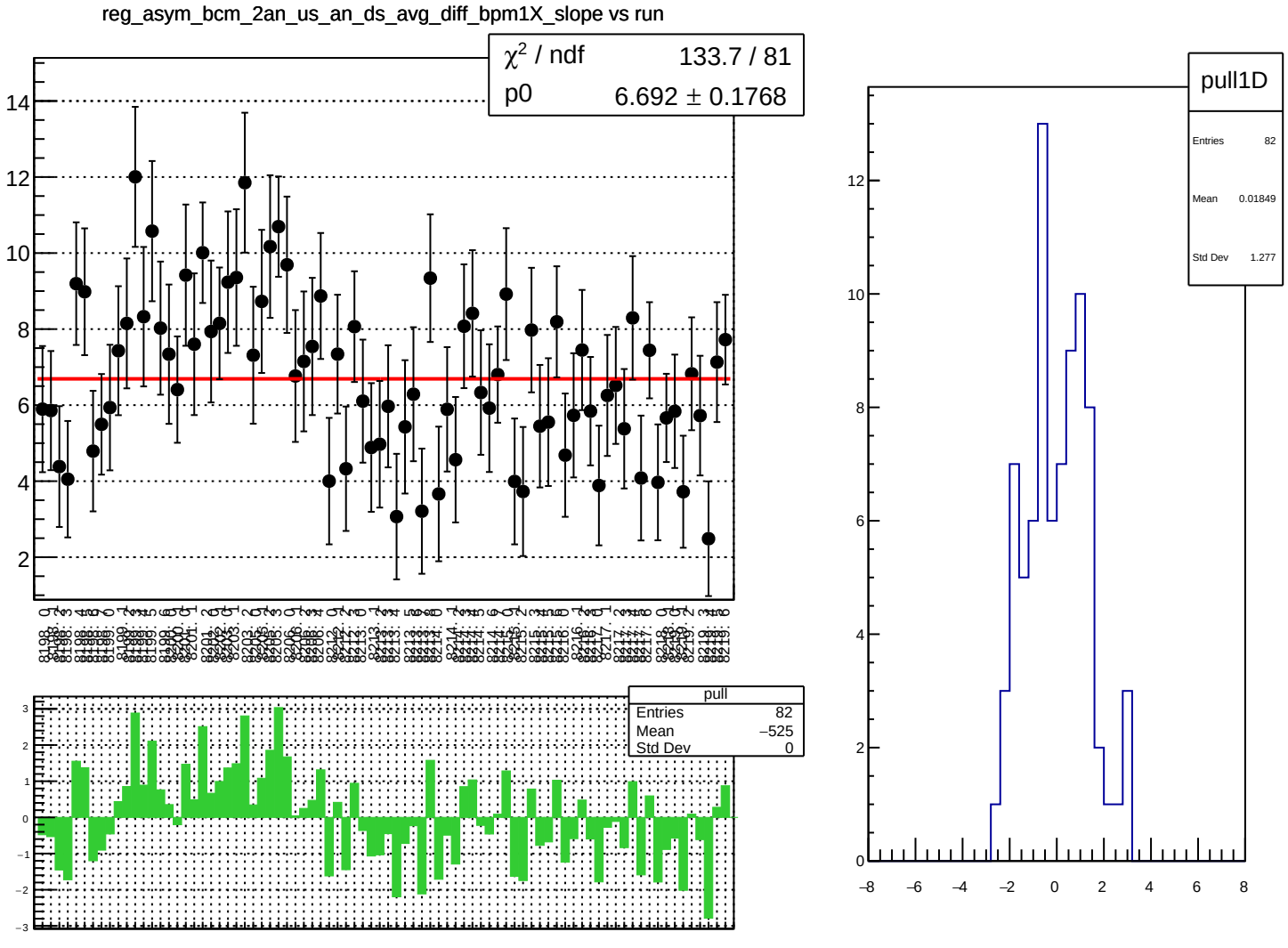

pull1D
Entries 82
Mean −0.002925
Std Dev 1.206

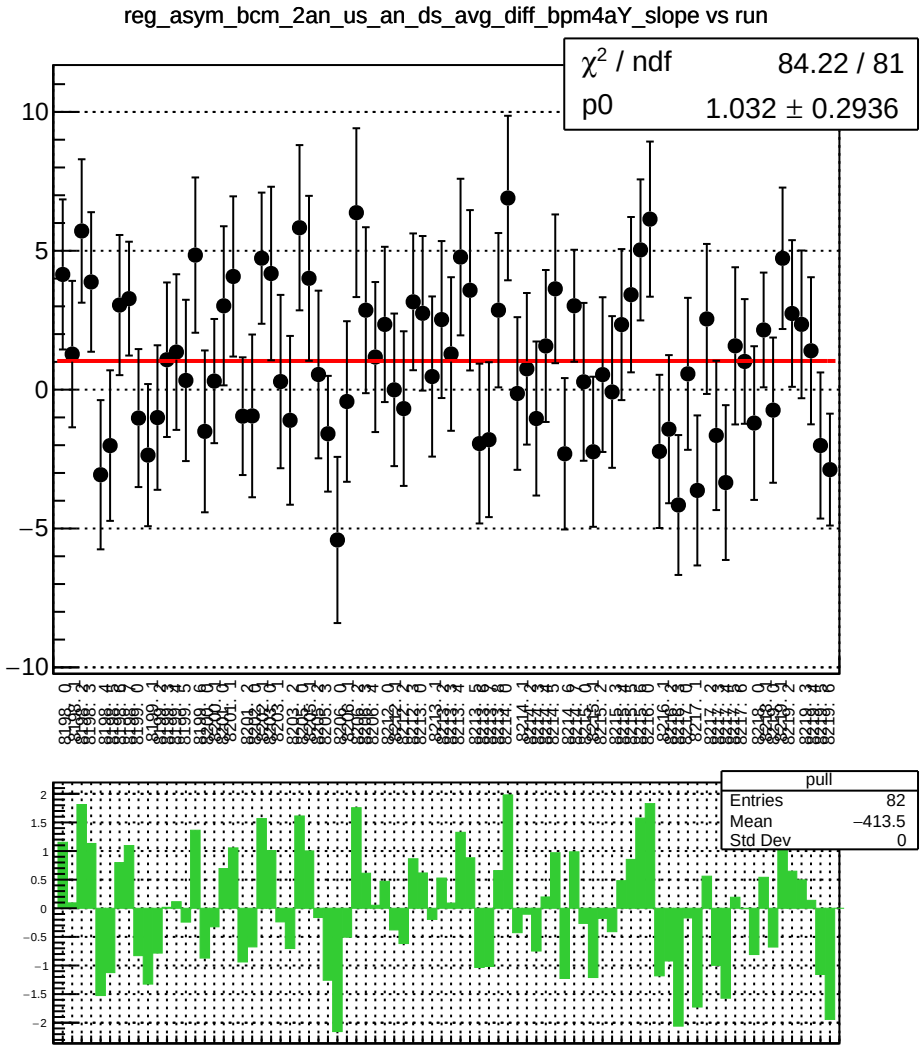

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 90.14 / 81
p0 −0.9893 ± 0.3221
pull
Entries 82
Mean −53.77
Std Dev 0

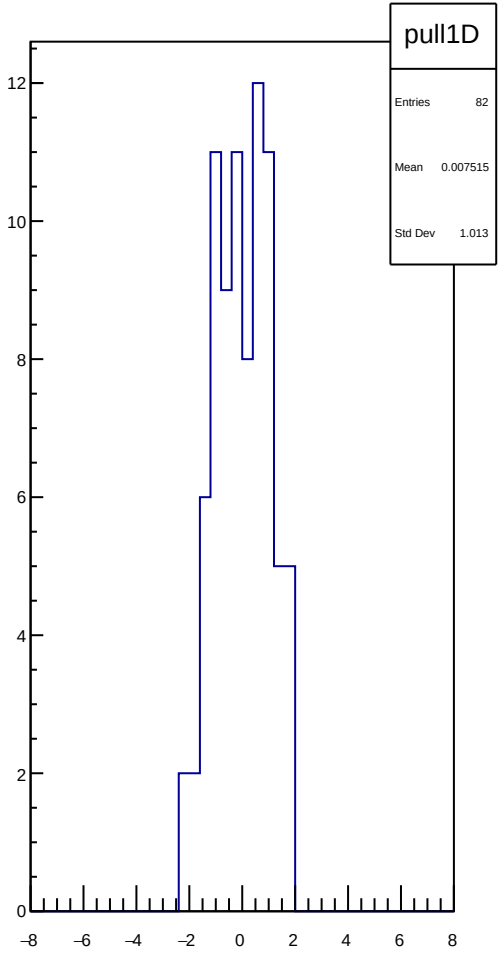

pull1D
Entries 82
Mean −0.00891
Std Dev 1.048

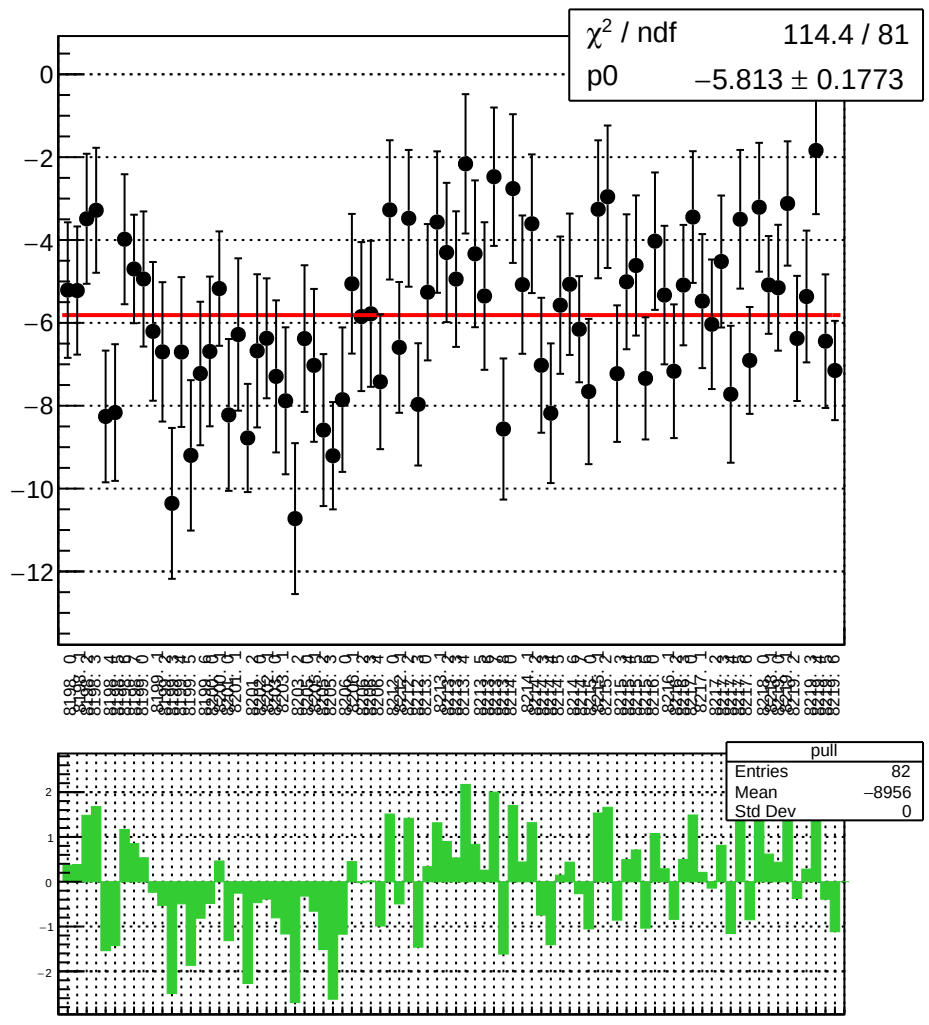

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 137.9 / 81
p0 0.3821± 0.01459
pull
Entries 82
Mean −166.1
Std Dev 0

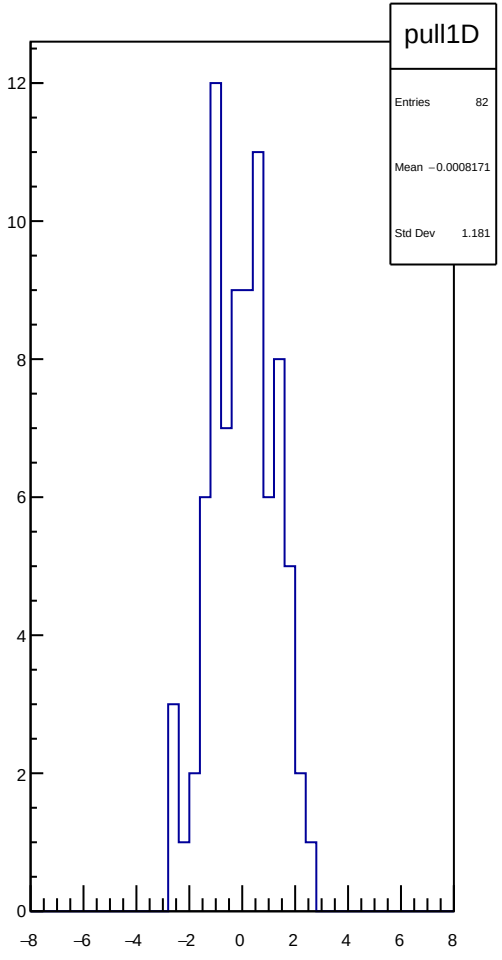

pull1D
Entries 82
Mean 0.06392
Std Dev 1.295

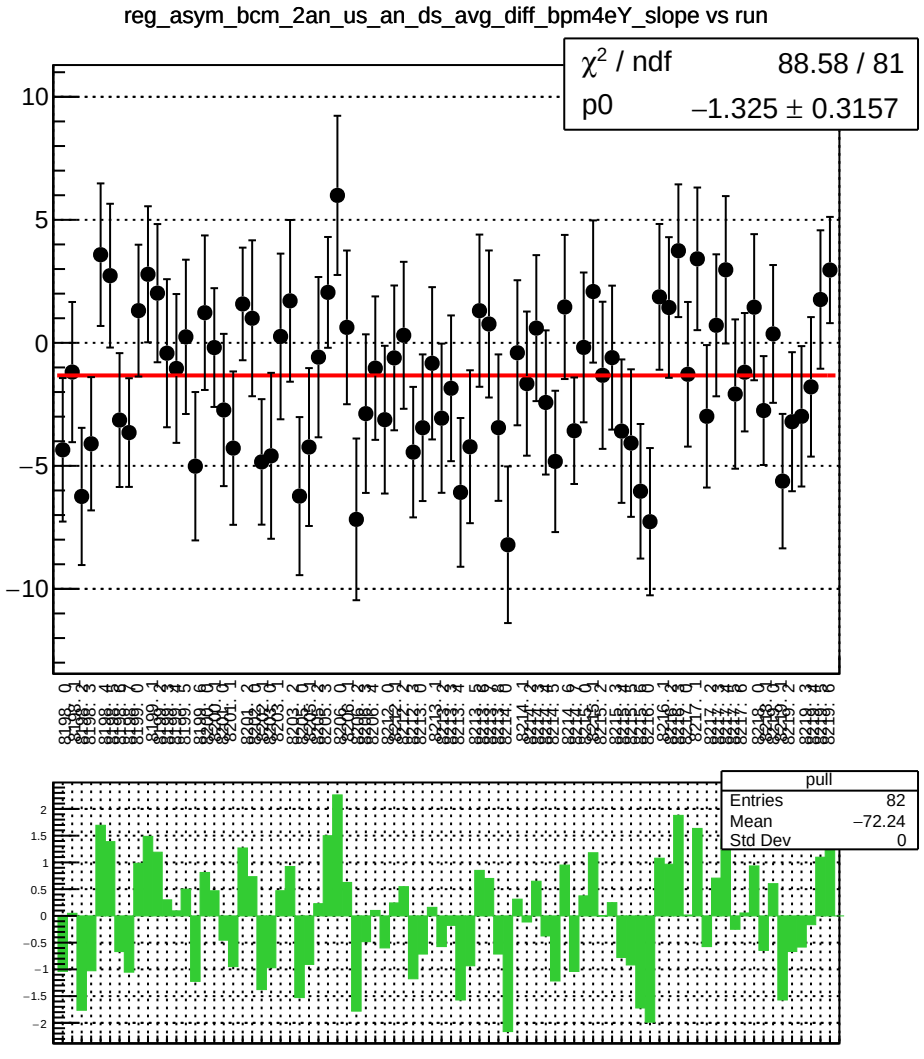

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 133.7 / 81
p0 6.692 ± 0.1768
pull
Entries 82
Mean −525
Std Dev 0
pull1D
Entries 82
Mean 0.01849
Std Dev 1.277

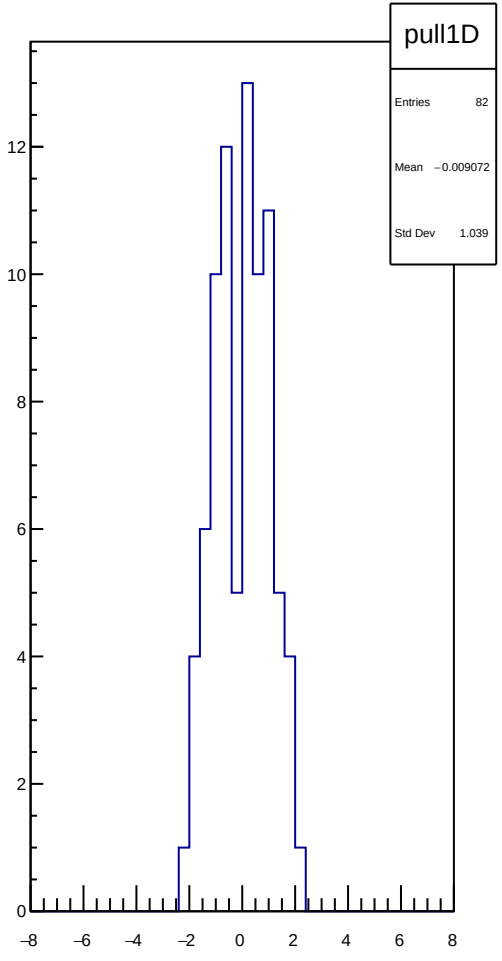

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.22 / 81
p0 1.032 ± 0.2936
pull
Entries 82
Mean −413.5
Std Dev 0

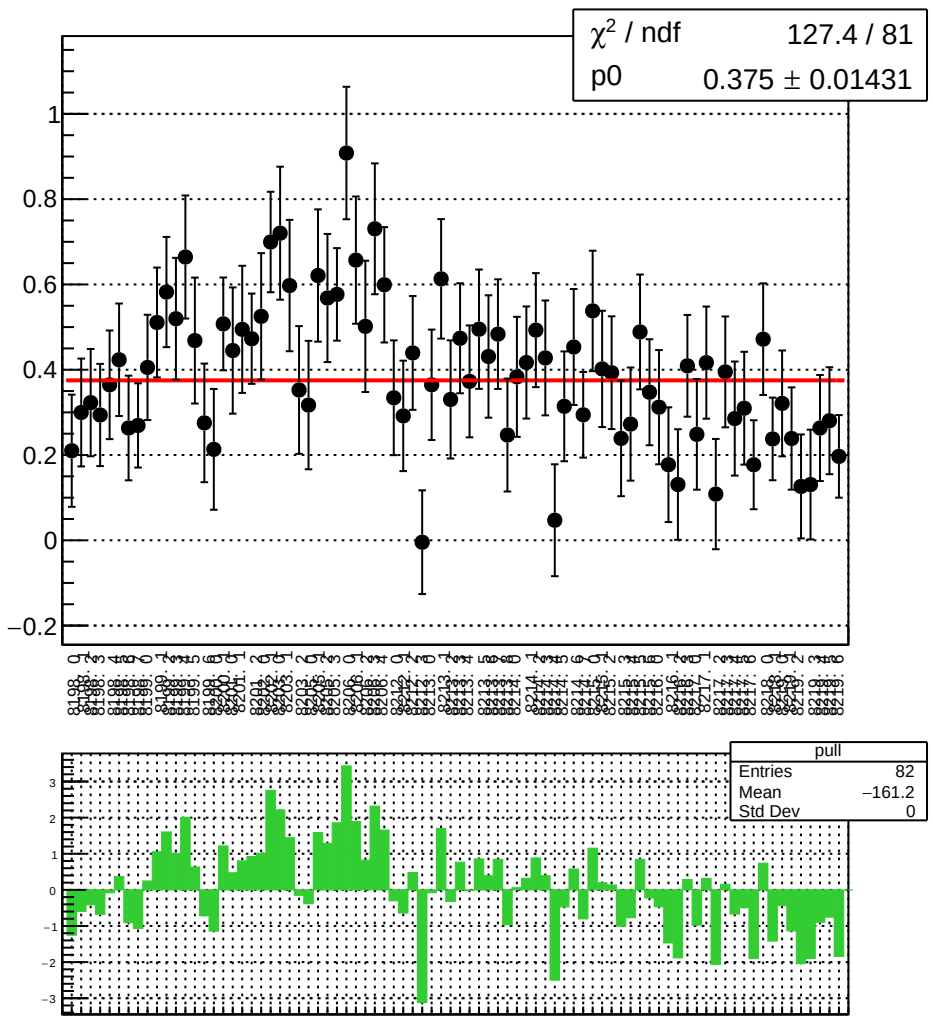

pull1D
Entries 82
Mean 0.007515
Std Dev 1.013

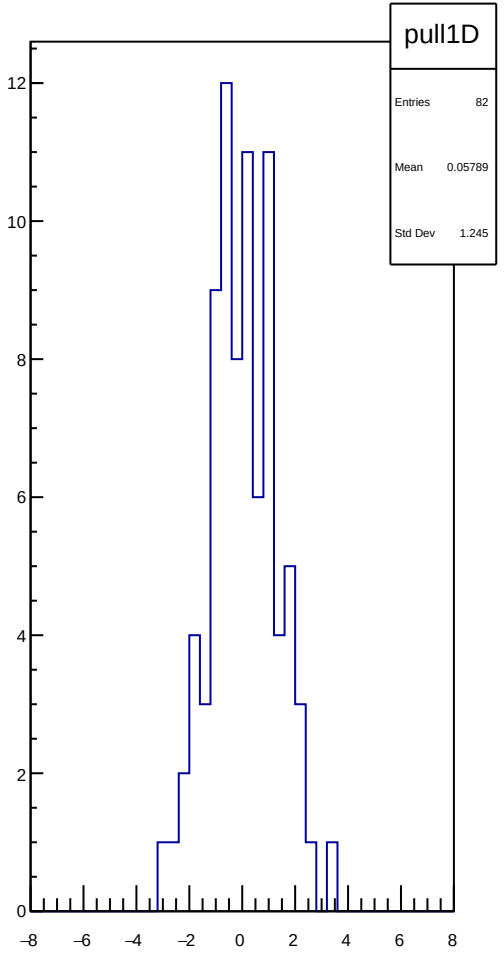

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 114.4 / 81
p0 −5.813 ± 0.1773
pull
Entries 82
Mean −8956
Std Dev 0

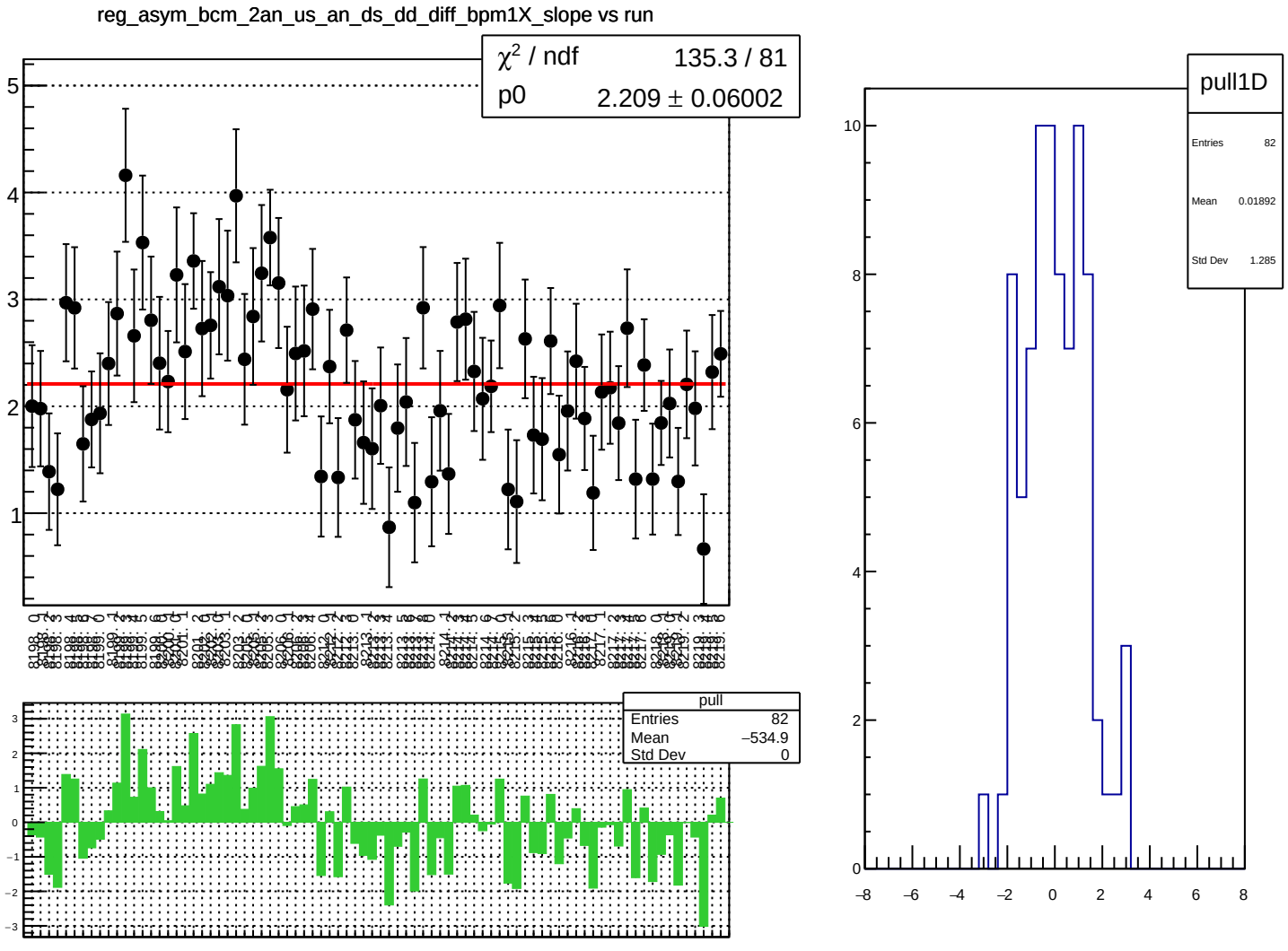

pull1D
Entries 82
Mean −0.0008171
Std Dev 1.181

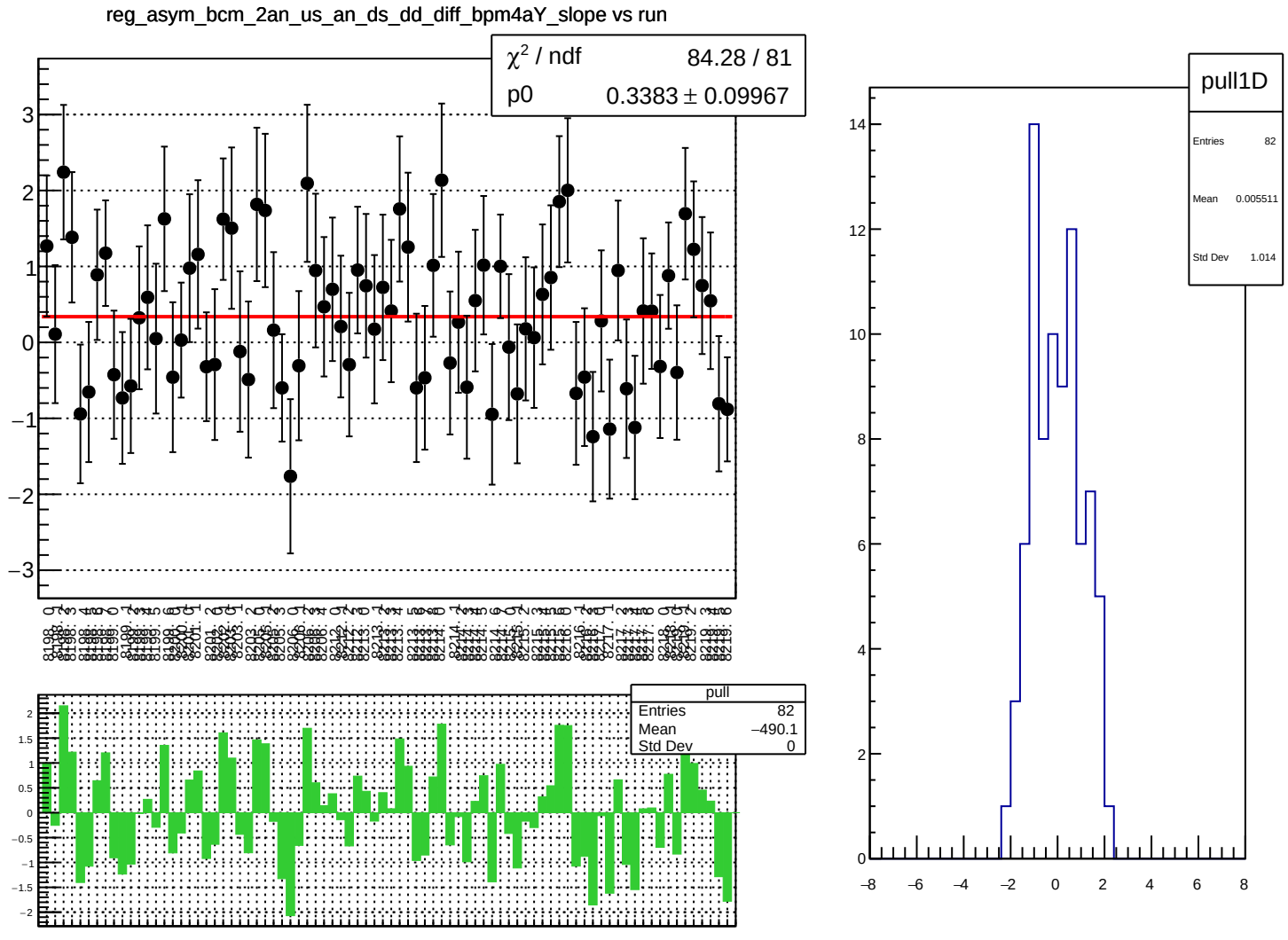

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.58 / 81
p0 −1.325 ± 0.3157
pull
Entries 82
Mean −72.24
Std Dev 0

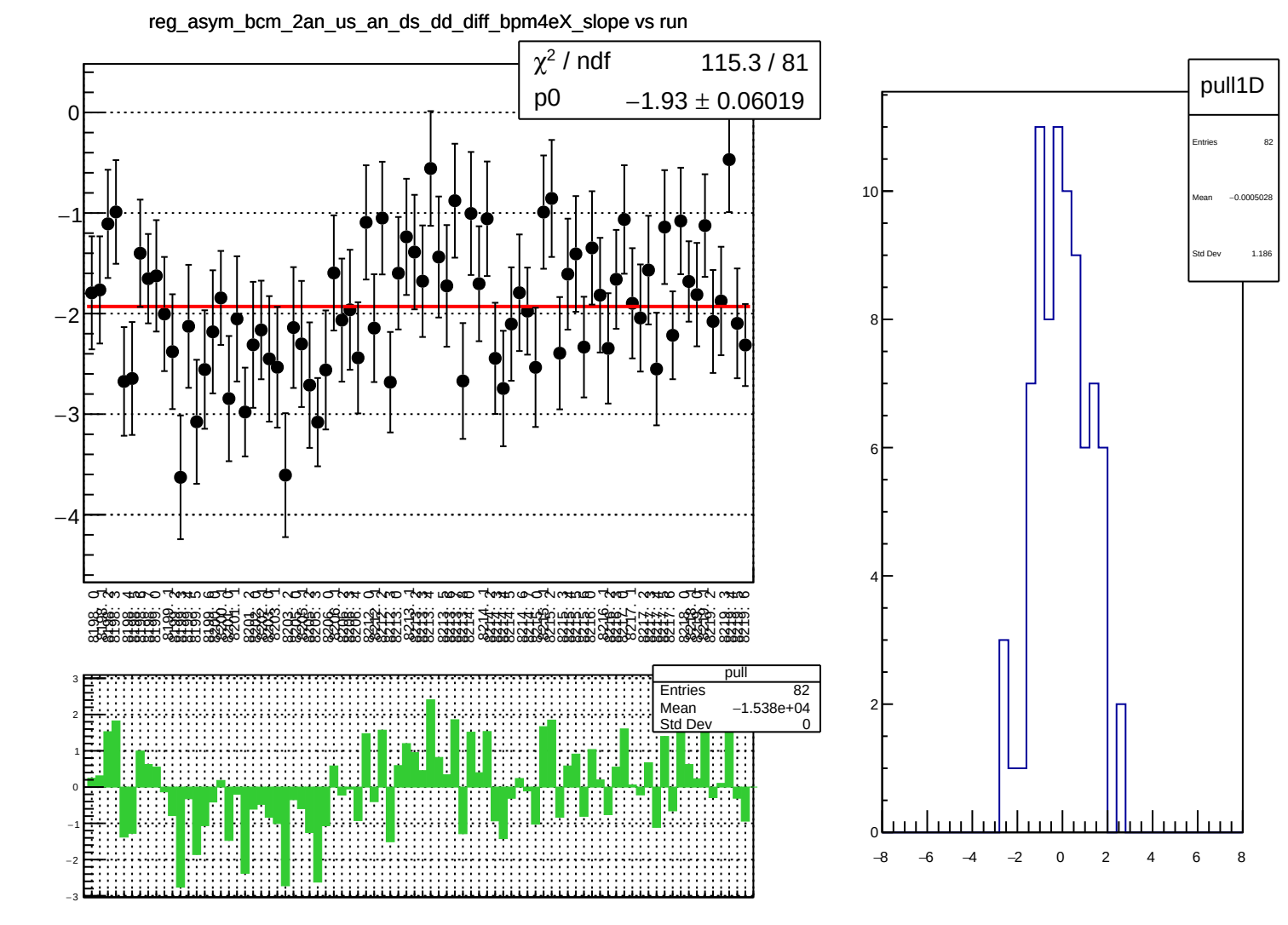

pull1D
Entries 82
Mean −0.009072
Std Dev 1.039

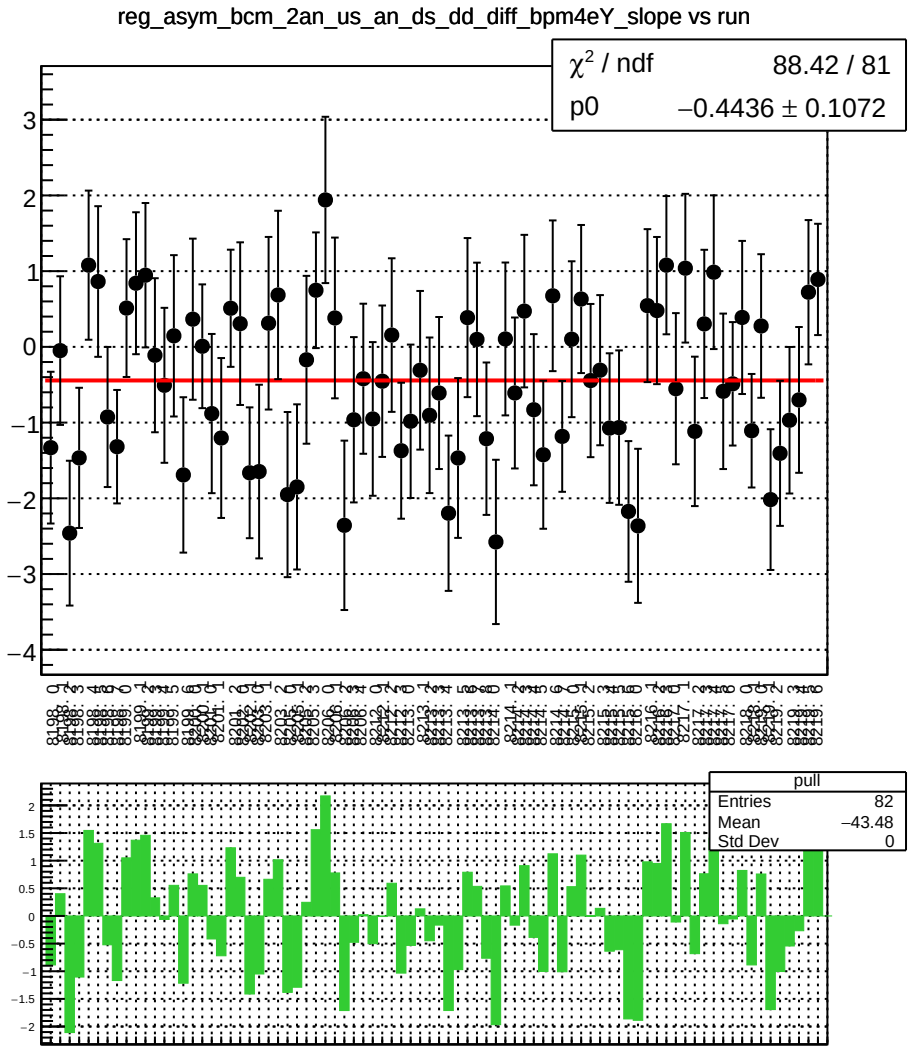

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 127.4 / 81
p0 0.375 ± 0.01431
pull
Entries 82
Mean −161.2
Std Dev 0

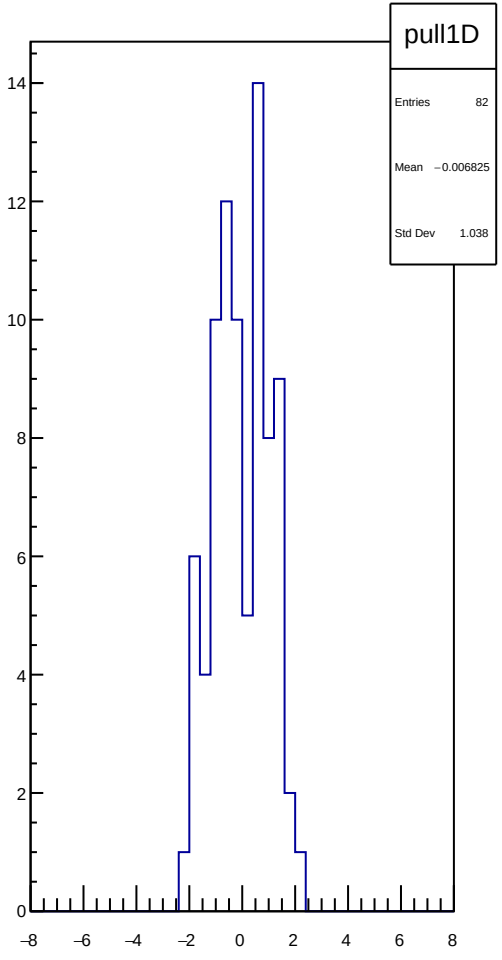

pull1D
Entries 82
Mean 0.05789
Std Dev 1.245

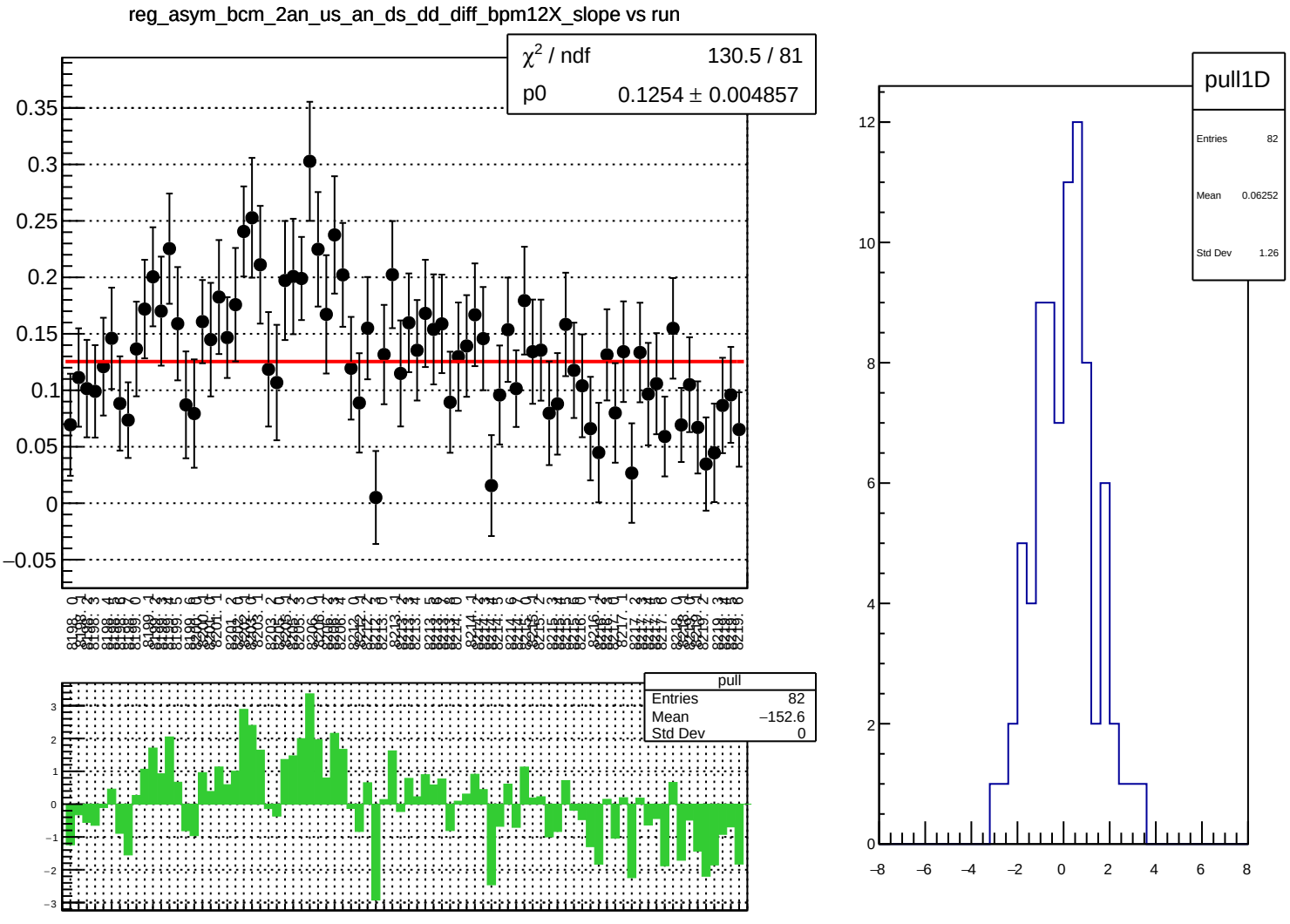

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 135.3 / 81
p0 2.209 ± 0.06002
pull
Entries 82
Mean −534.9
Std Dev 0
pull1D
Entries 82
Mean 0.01892
Std Dev 1.285

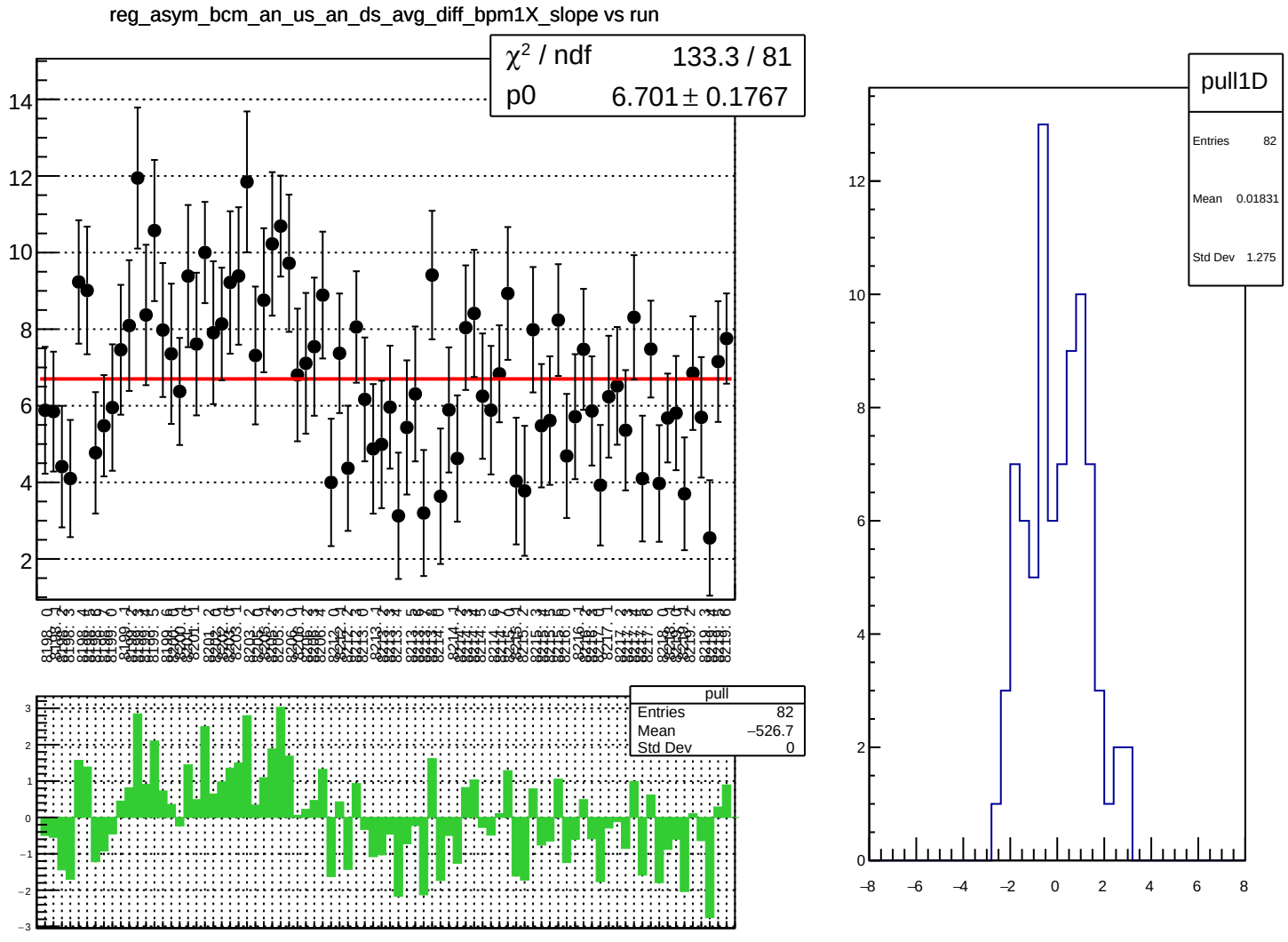

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.28 / 81
p0 0.3383 ± 0.09967
pull
Entries 82
Mean −490.1
Std Dev 0
pull1D
Entries 82
Mean 0.005511
Std Dev 1.014

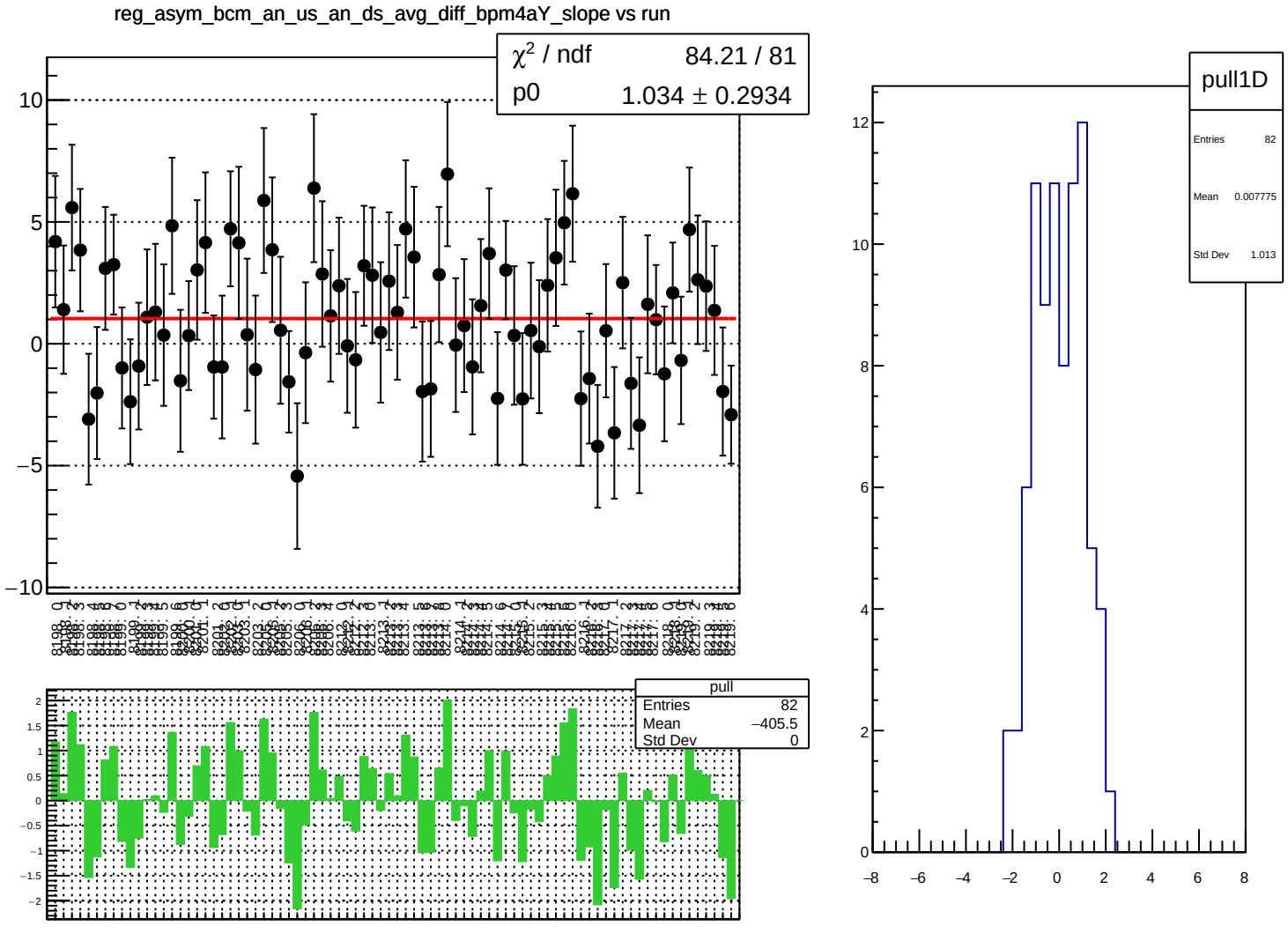

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 115.3 / 81
p0 −1.93 ± 0.06019
pull
Entries 82
Mean −1.538e+04
Std Dev 0
pull1D
Entries 82
Mean −0.0005028
Std Dev 1.186

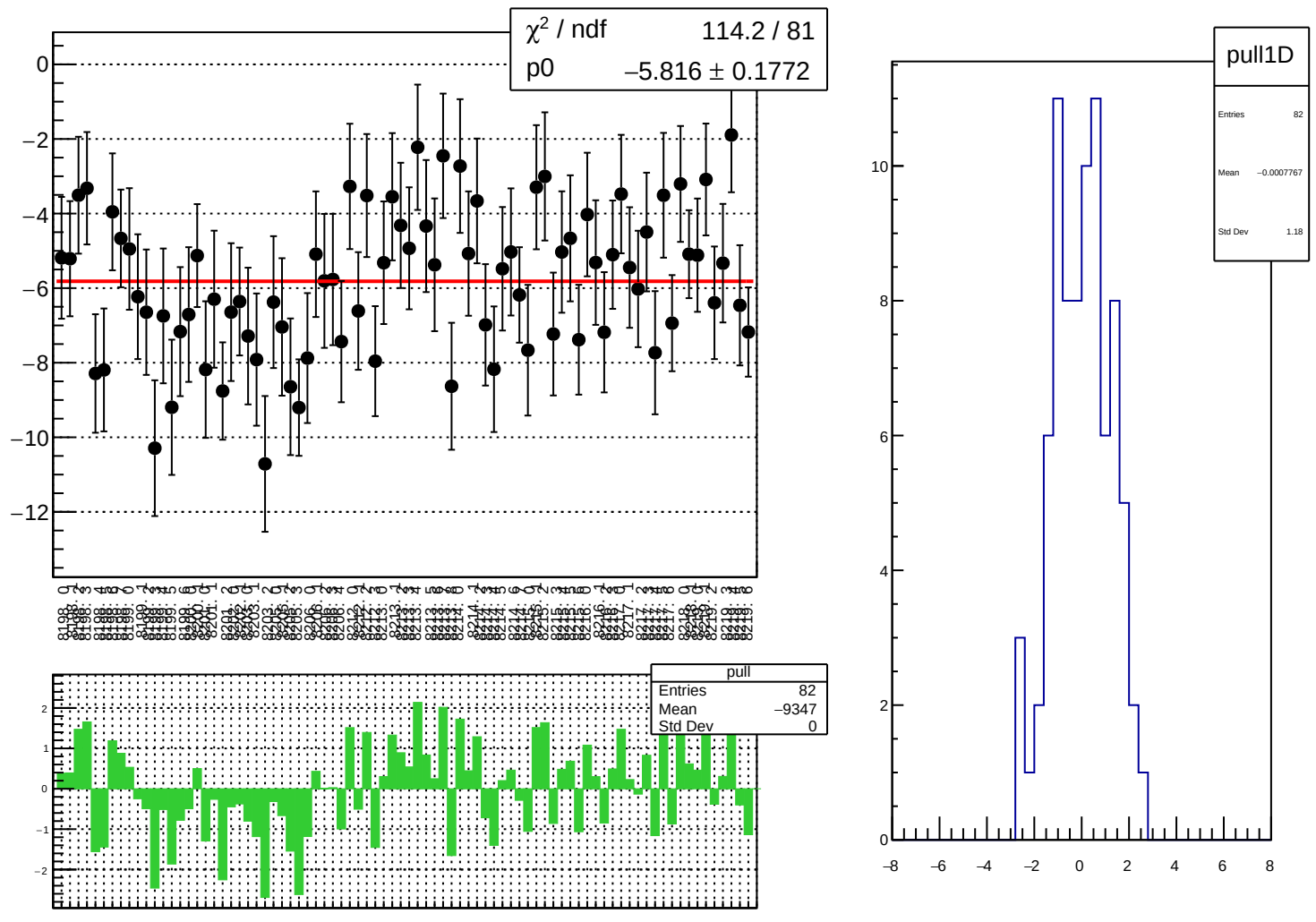

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 88.42 / 81
p0 −0.4436 ± 0.1072
pull
Entries 82
Mean −43.48
Std Dev 0

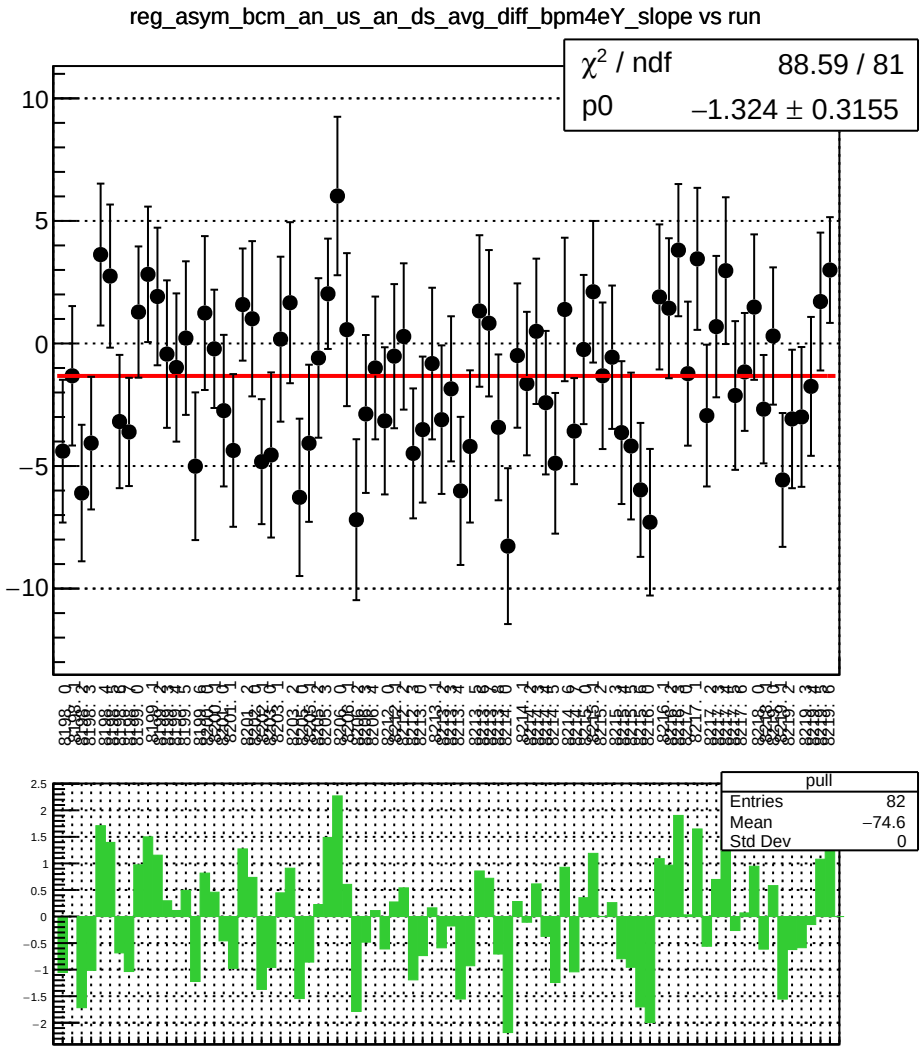

pull1D
Entries 82
Mean −0.006825
Std Dev 1.038

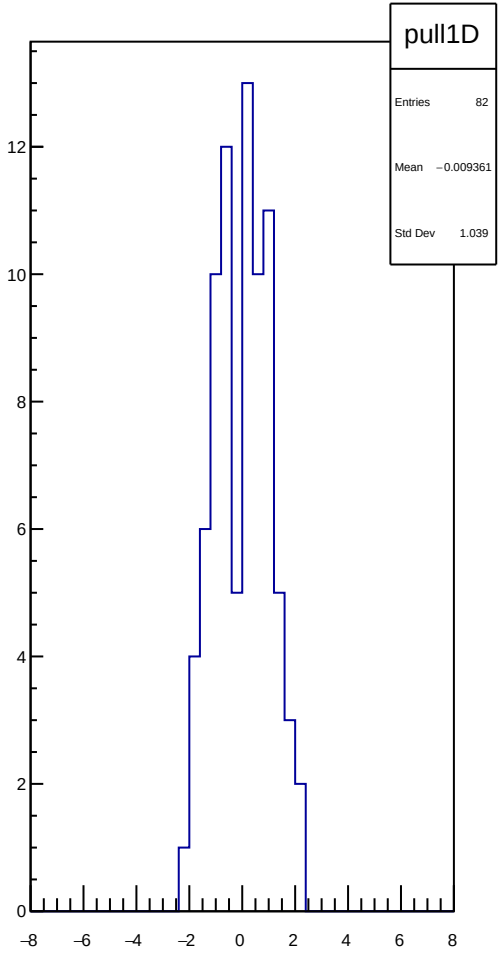

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 130.5 / 81
p0 0.1254 ± 0.004857
pull
Entries 82
Mean −152.6
Std Dev 0
pull1D
Entries 82
Mean 0.06252
Std Dev 1.26

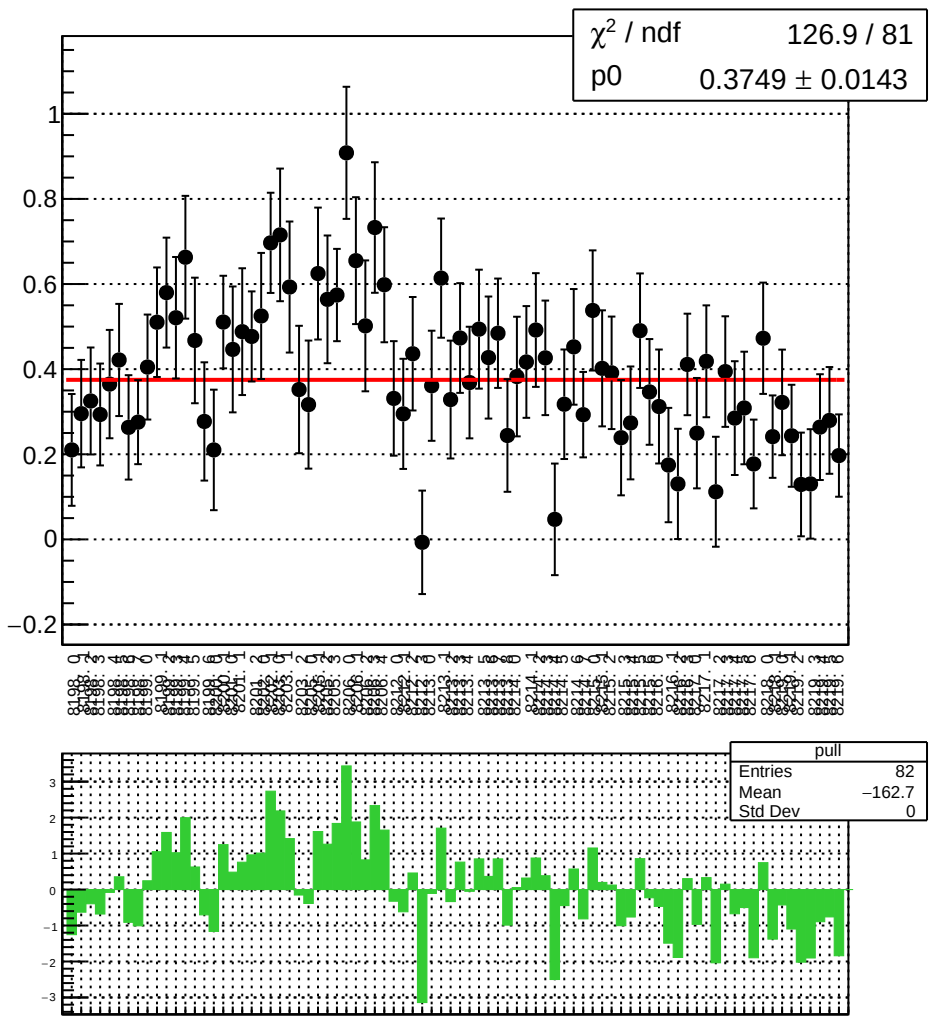

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 133.3 / 81
p0 6.701 ± 0.1767
pull
Entries 82
Mean −526.7
Std Dev 0
pull1D
Entries 82
Mean 0.01831
Std Dev 1.275

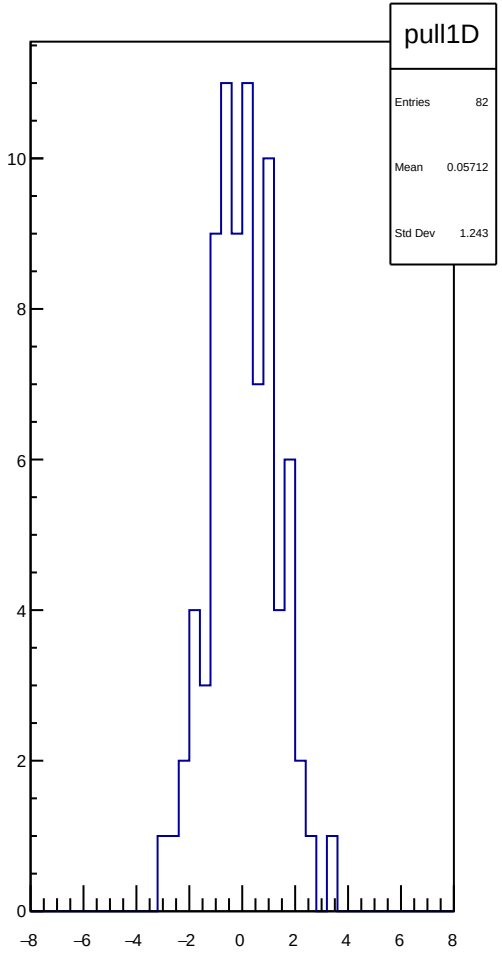

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.21 / 81
p0 1.034 ± 0.2934
pull
Entries 82
Mean −405.5
Std Dev 0
pull1D
Entries 82
Mean 0.007775
Std Dev 1.013

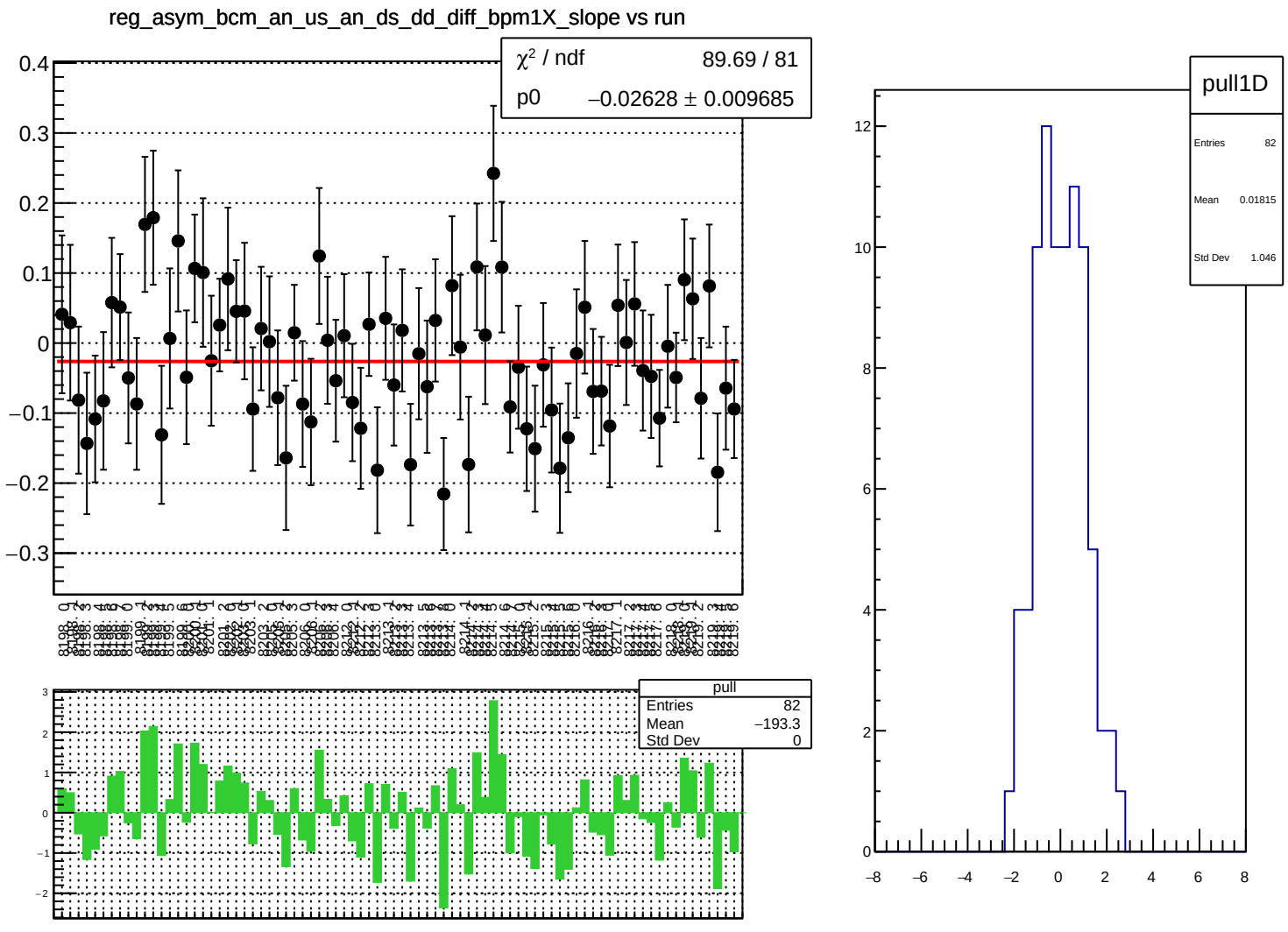

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 114.2 / 81
p0 −5.816 ± 0.1772
pull
Entries 82
Mean −9347
Std Dev 0
pull1D
Entries 82
Mean −0.0007767
Std Dev 1.18

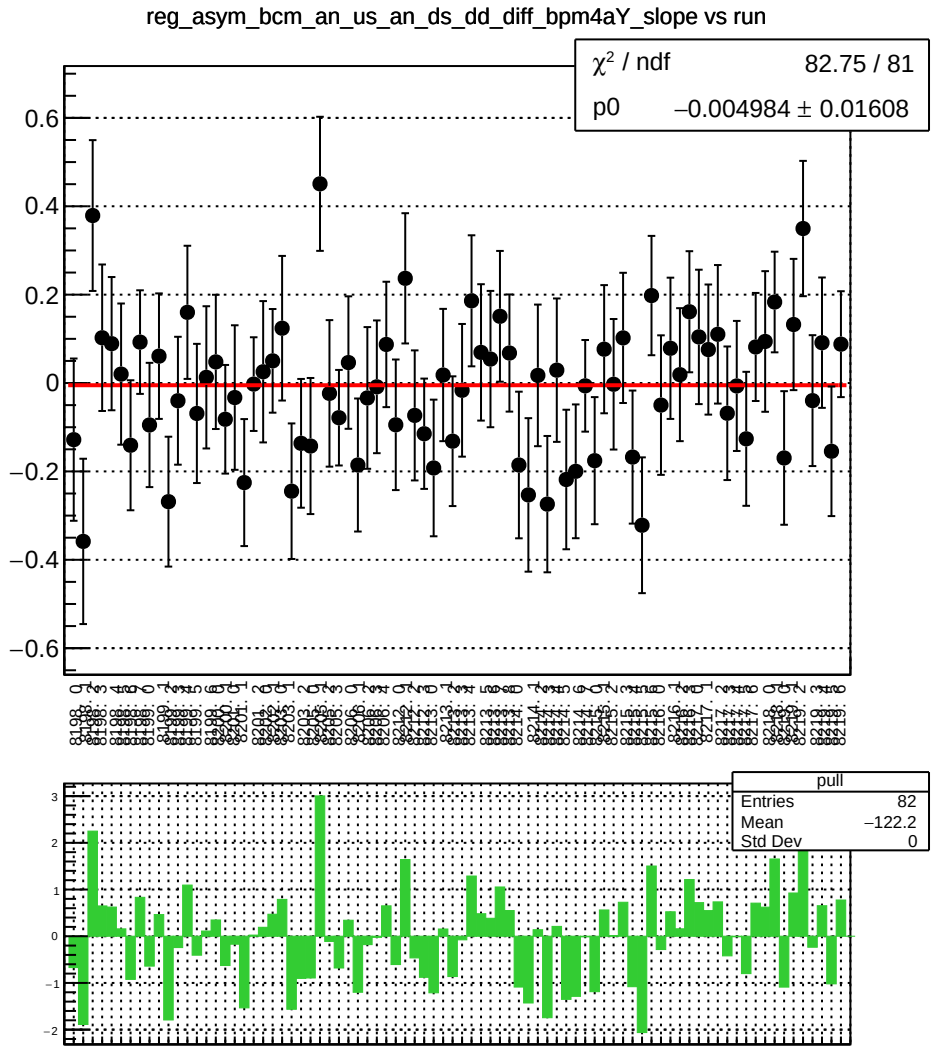

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.59 / 81
p0 −1.324 ± 0.3155
pull
Entries 82
Mean −74.6
Std Dev 0

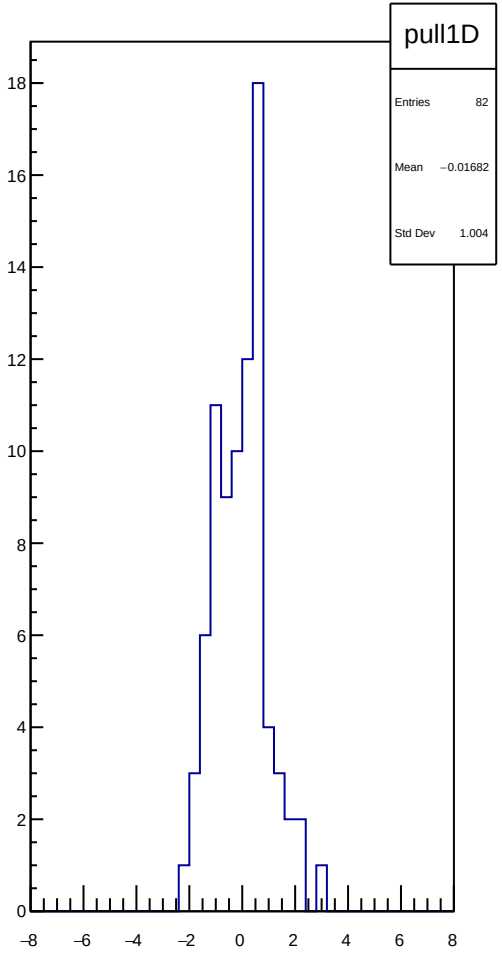

pull1D
Entries 82
Mean −0.009361
Std Dev 1.039

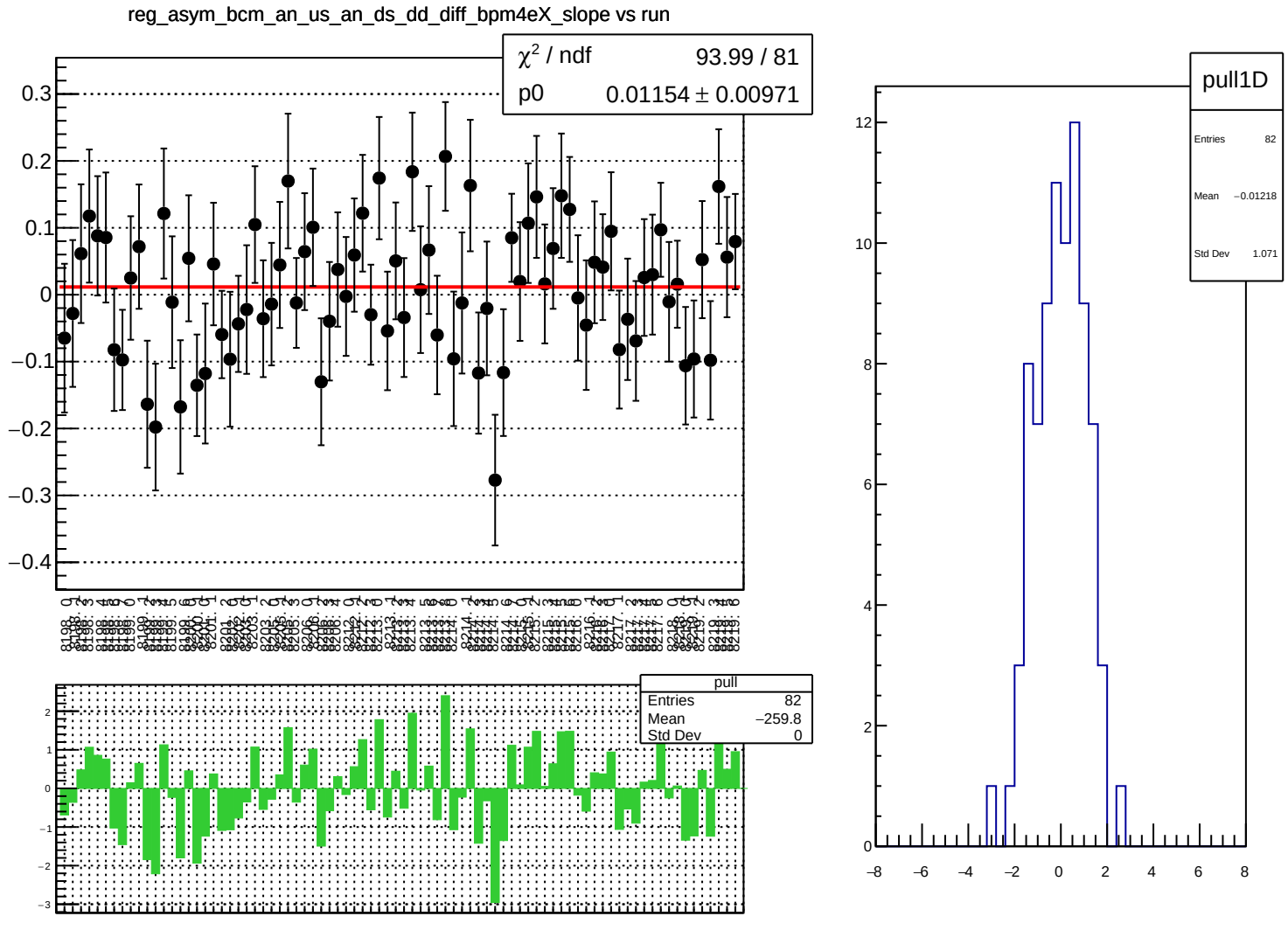

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 126.9 / 81
p0 0.3749 ± 0.0143
pull
Entries 82
Mean −162.7
Std Dev 0

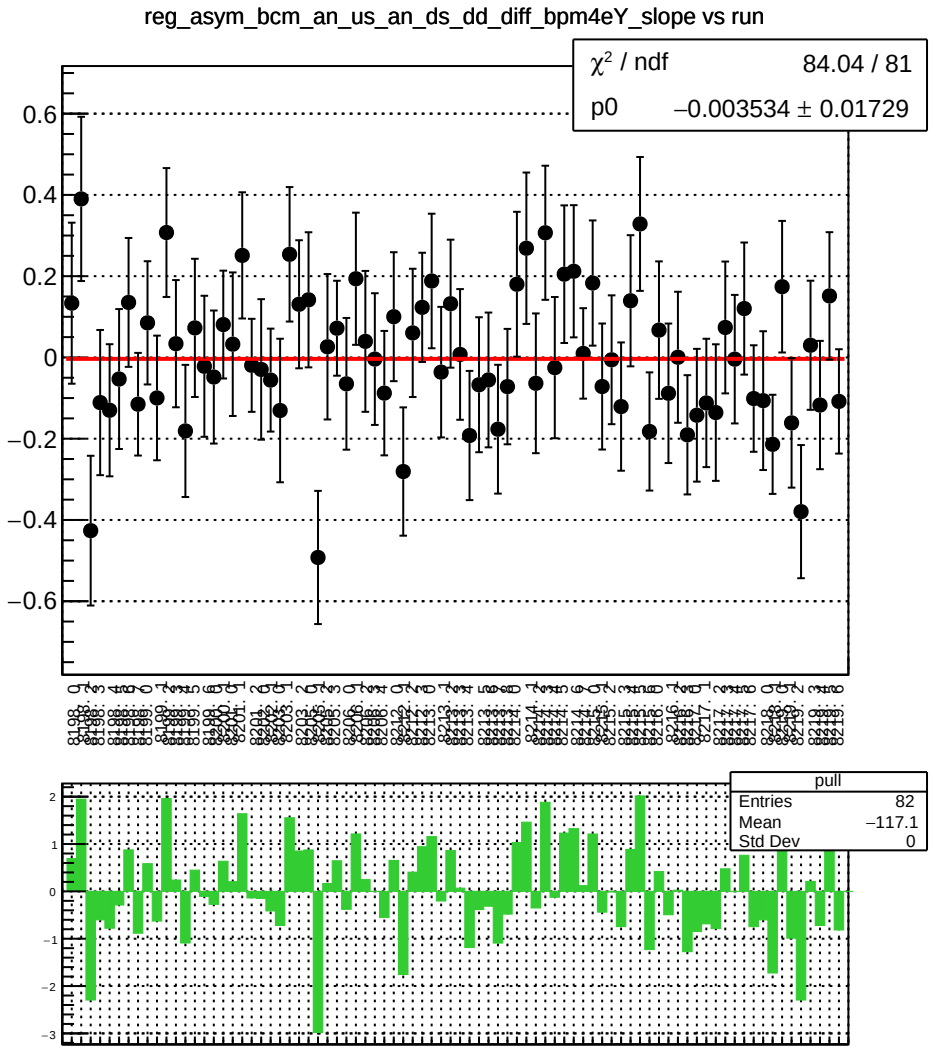

pull1D
Entries 82
Mean 0.05712
Std Dev 1.243

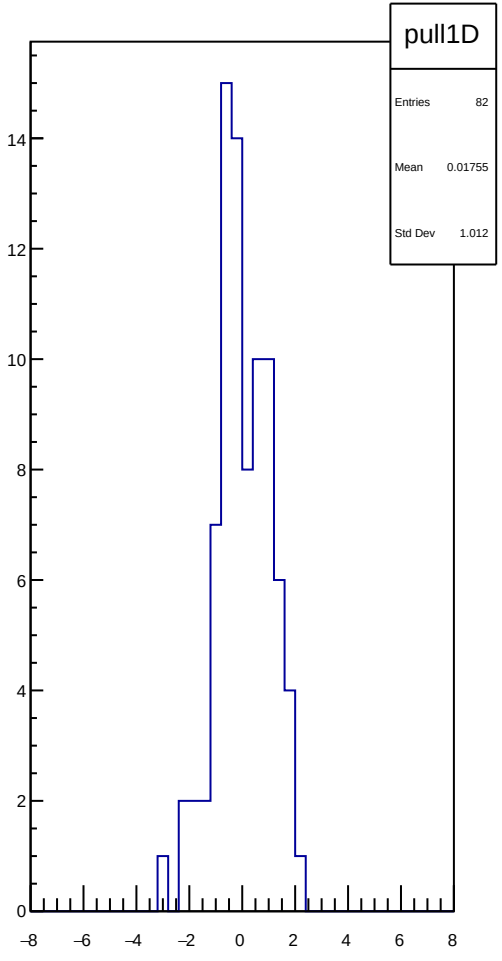

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 89.69 / 81
p0 −0.02628 ± 0.009685
pull
Entries 82
Mean −193.3
Std Dev 0
pull1D
Entries 82
Mean 0.01815
Std Dev 1.046

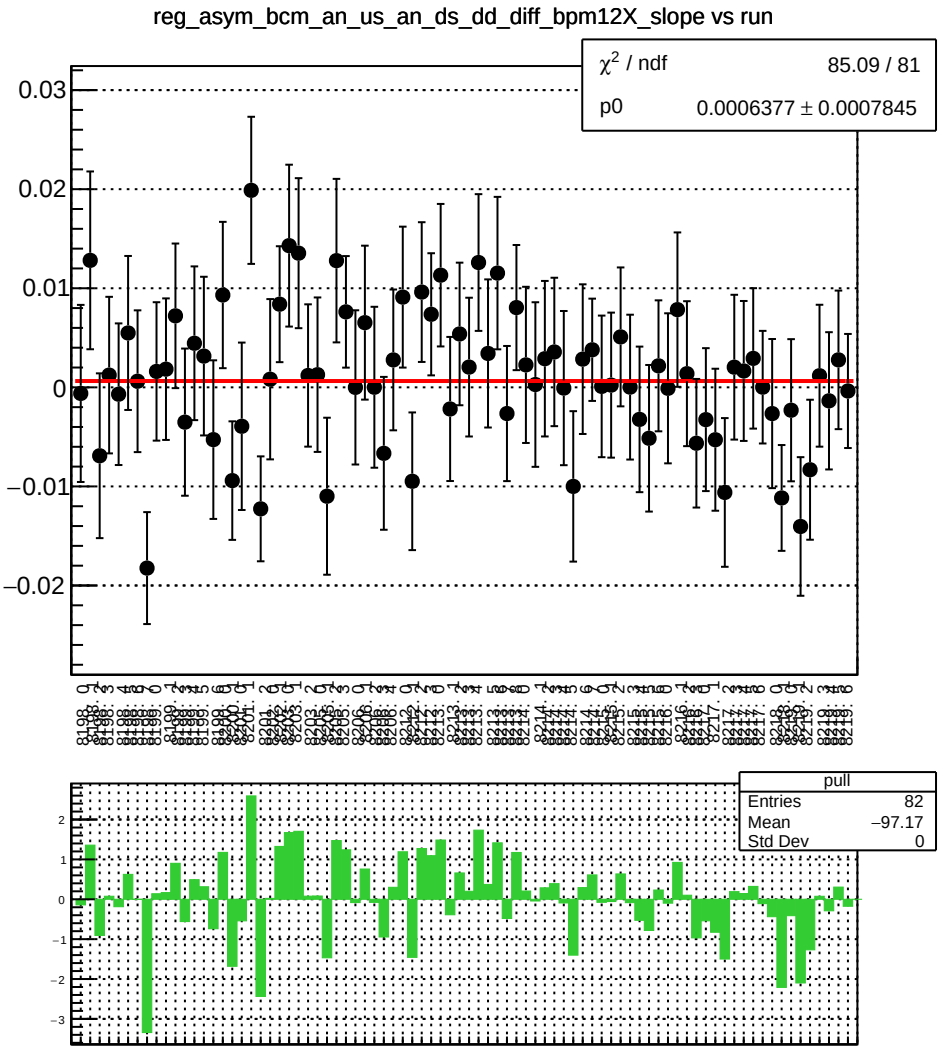

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.75 / 81
p0 −0.004984 ± 0.01608
pull
Entries 82
Mean −122.2
Std Dev 0

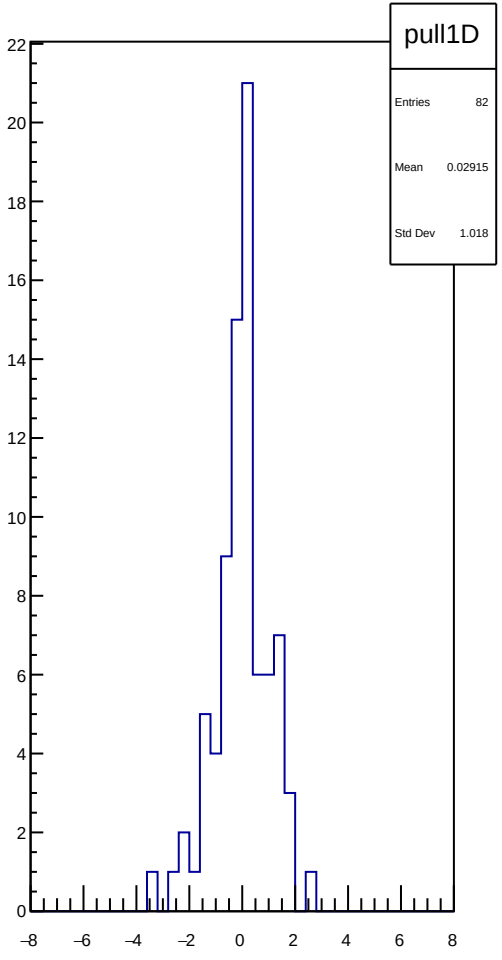

pull1D
Entries 82
Mean −0.01682
Std Dev 1.004

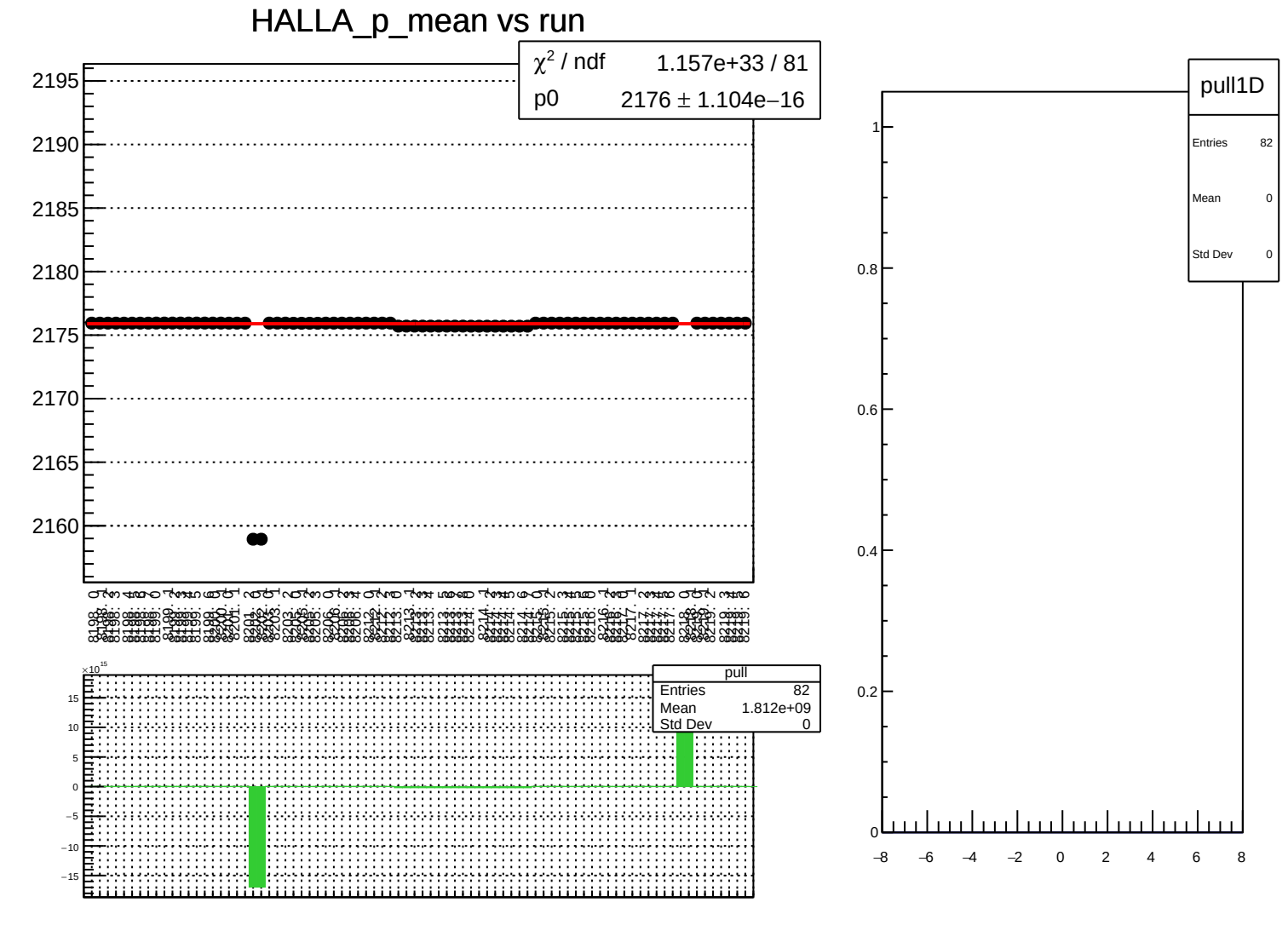

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.99 / 81
p0 0.01154 ± 0.00971
pull
Entries 82
Mean −259.8
Std Dev 0
pull1D
Entries 82
Mean −0.01218
Std Dev 1.071

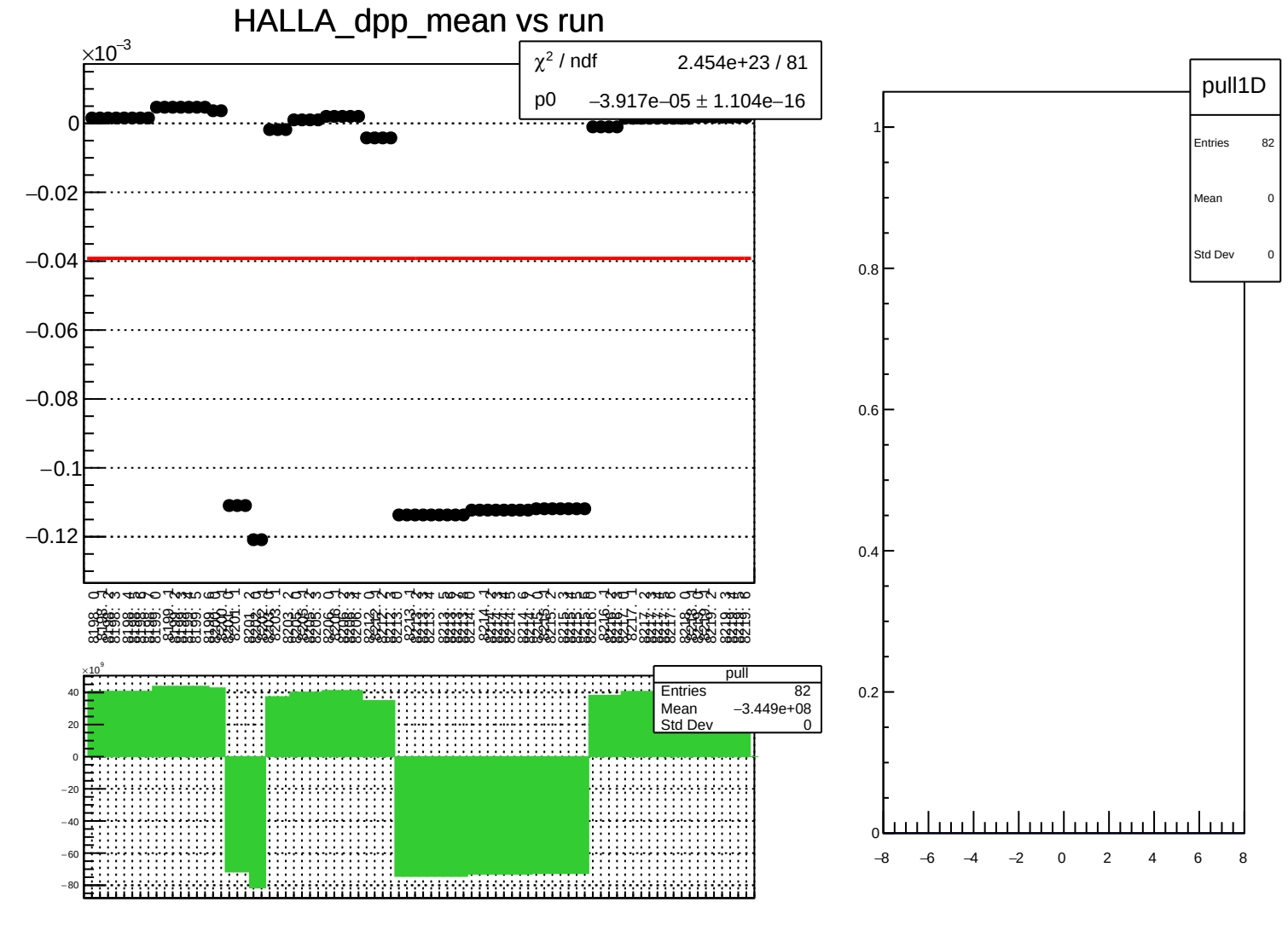

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.04 / 81
p0 −0.003534 ± 0.01729
pull
Entries 82
Mean −117.1
Std Dev 0

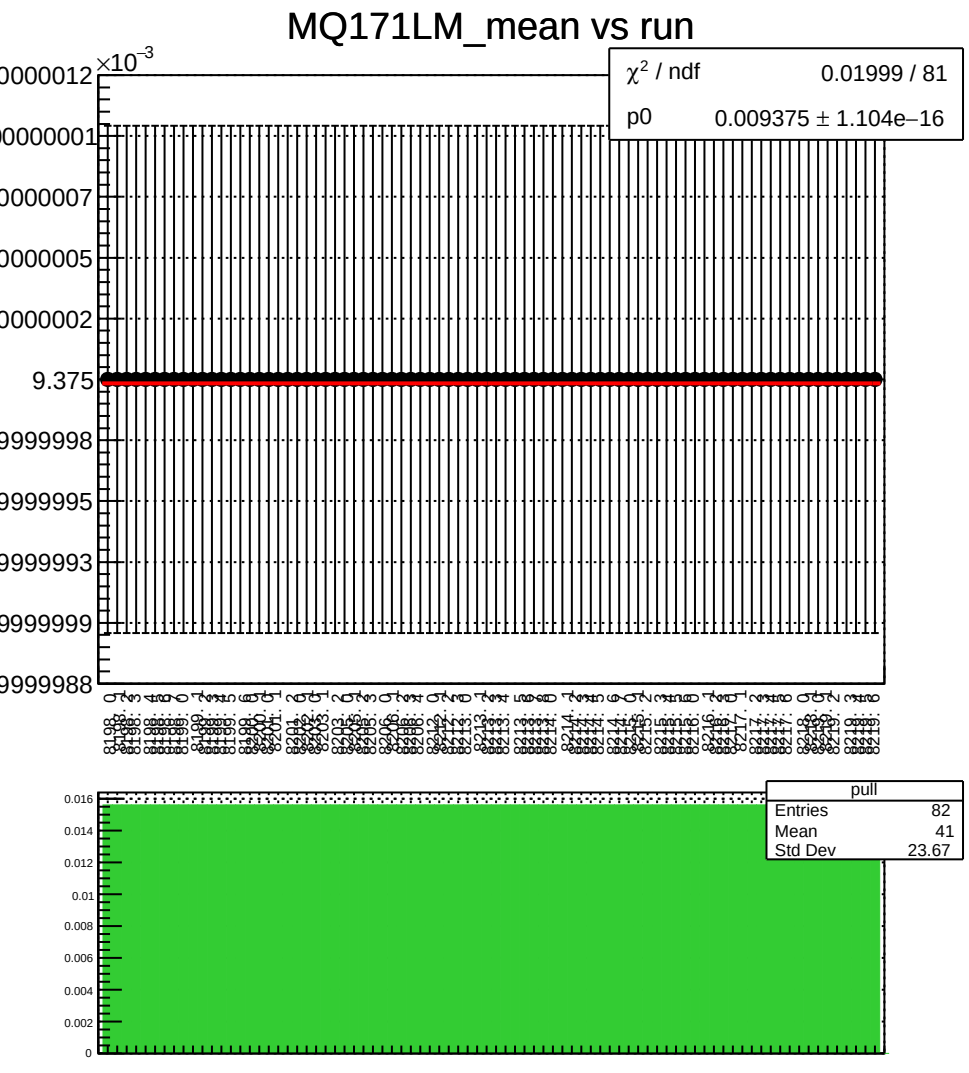

pull1D
Entries 82
Mean 0.01755
Std Dev 1.012

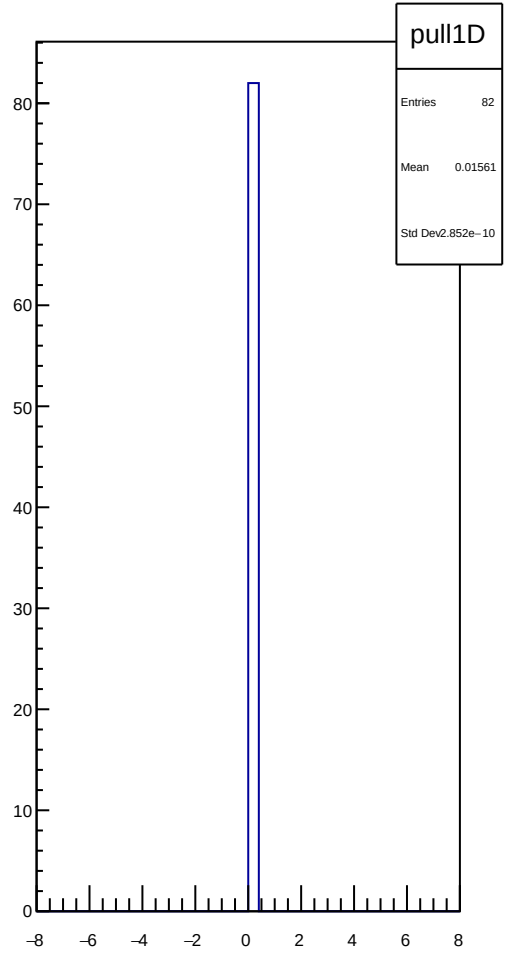

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 85.09 / 81
p0 0.0006377 ± 0.0007845
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 82
Mean −97.17
Std Dev 0
2
1
0
−1
−2
−3

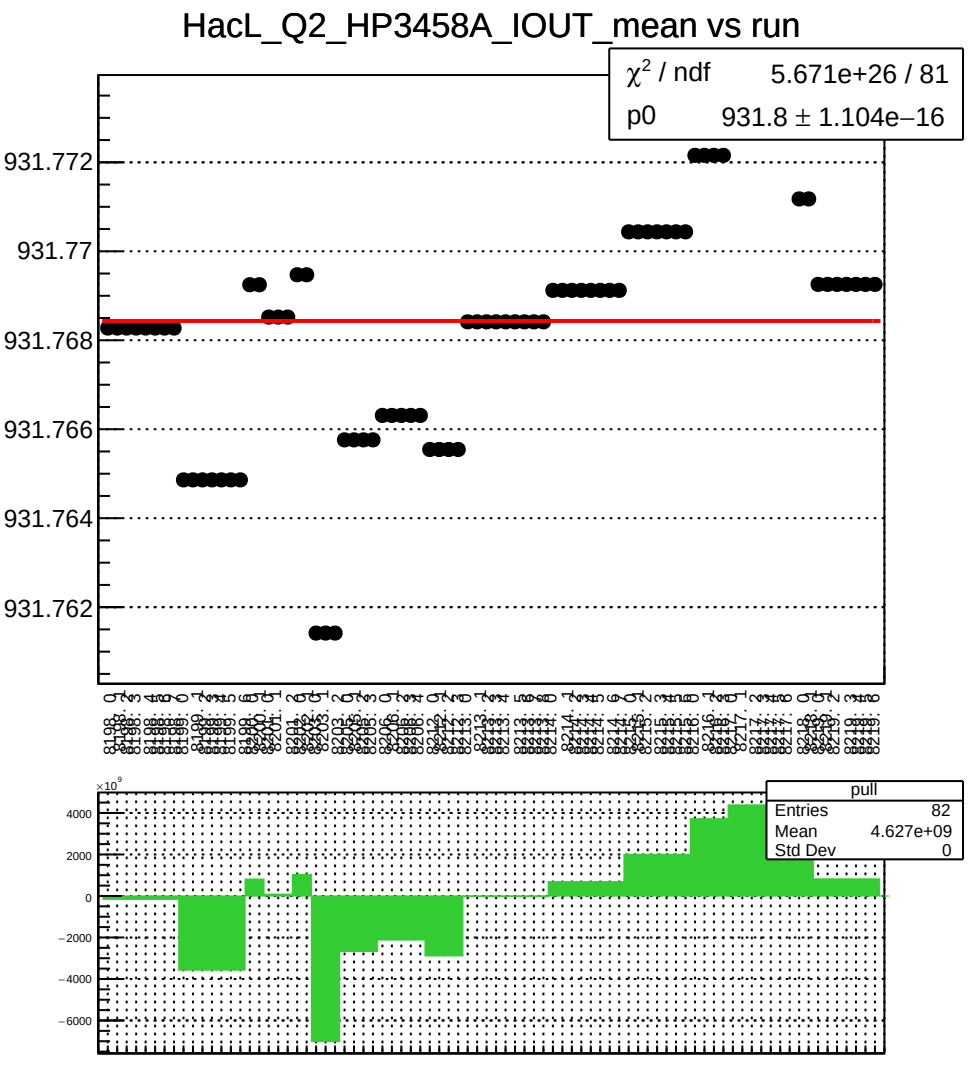

pull1D
Entries 82
Mean 0.02915
Std Dev 1.018
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

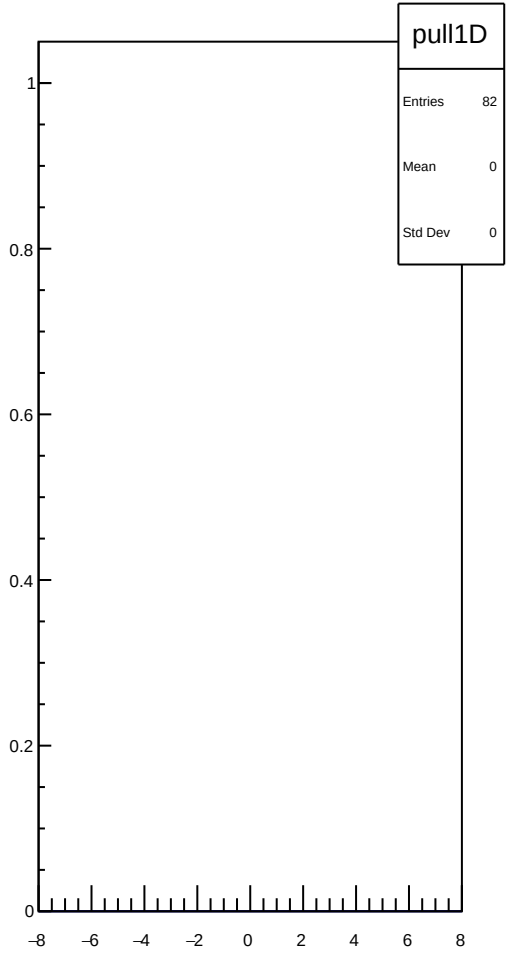

HALLA_p_mean vs run
χ² / ndf 1.157e+33 / 81
p0 2176 ± 1.104e−16
2195
2190
2185
2180
2175
2170
2165
2160
pull
Entries 82
Mean 1.812e+09
Std Dev 0
×10¹⁵
15
10
5
0
−5
−10
−15
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

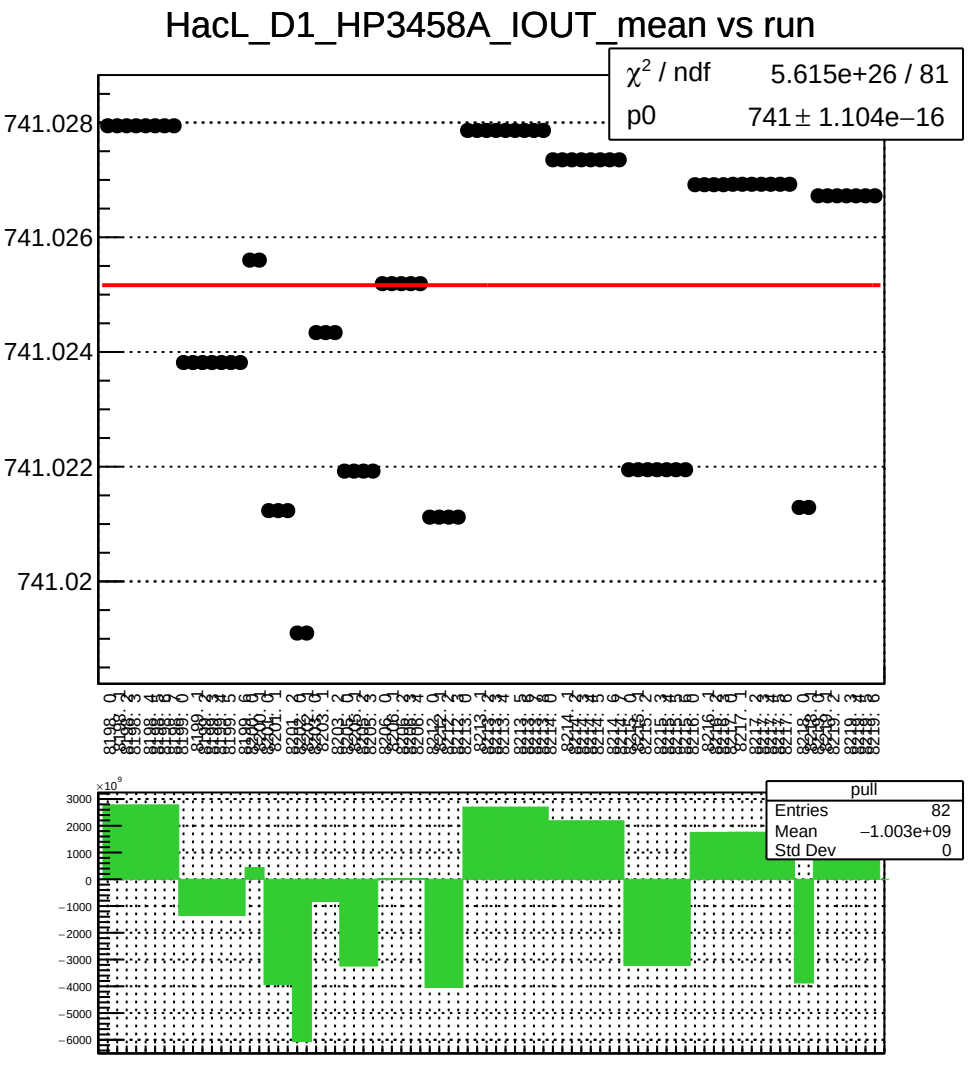

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.454e+23 / 81
p0 −3.917e−05 ± 1.104e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
40
20
0
−20
−40
−60
−80
pull
Entries 82
Mean −3.449e+08
Std Dev 0
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

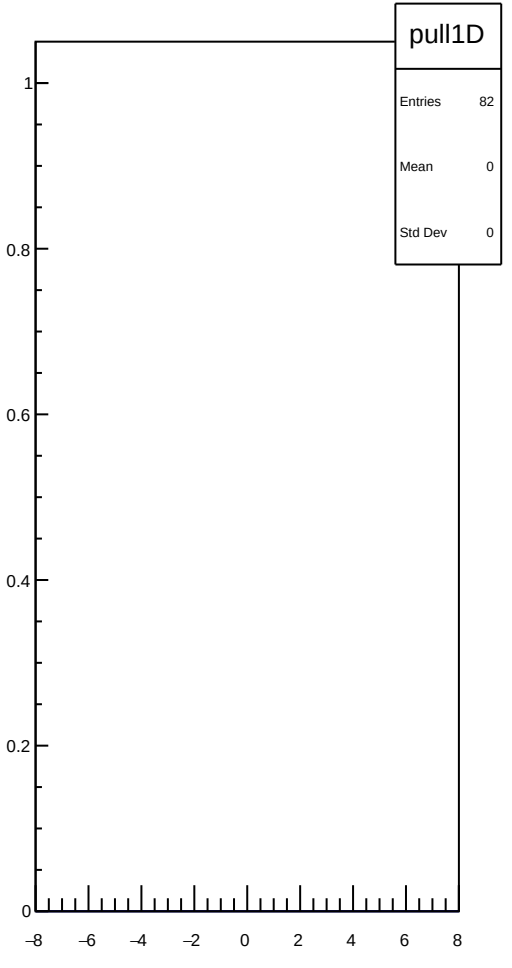

MQ171LM_mean vs run
χ² / ndf 0.01999 / 81
p0 0.009375 ± 1.104e−16
×10⁻³
pull
Entries 82
Mean 41
Std Dev 23.67

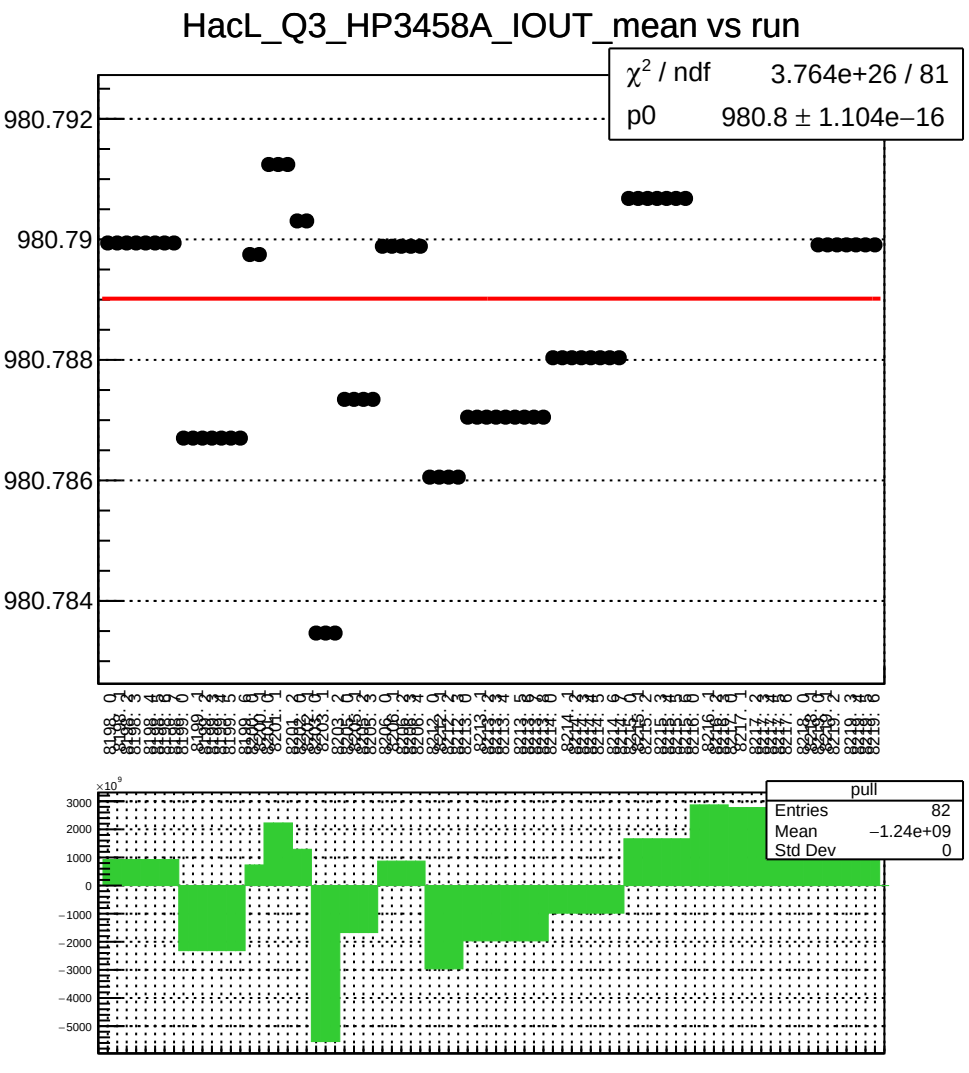

pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10

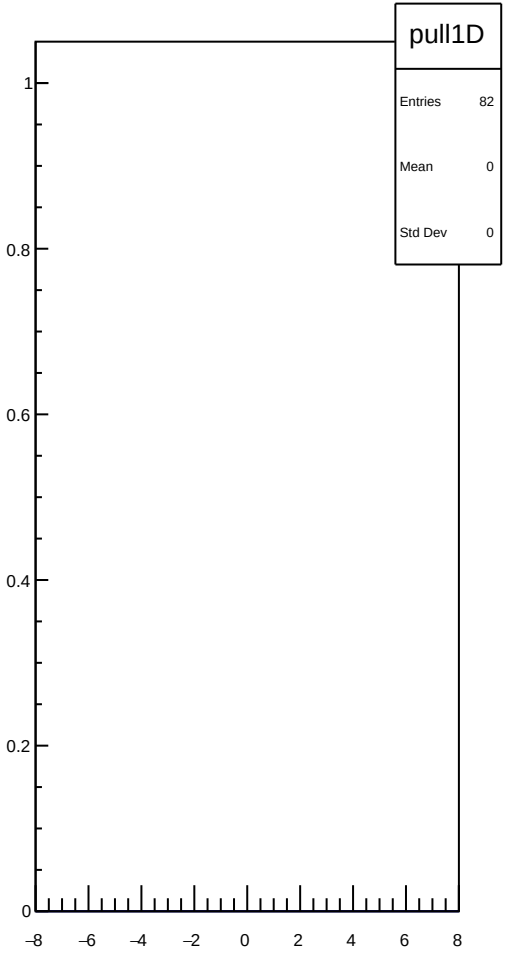

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.671e+26 / 81
p0 931.8 ± 1.104e−16
931.772
931.77
931.768
931.766
931.764
931.762
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean 4.627e+09
Std Dev 0

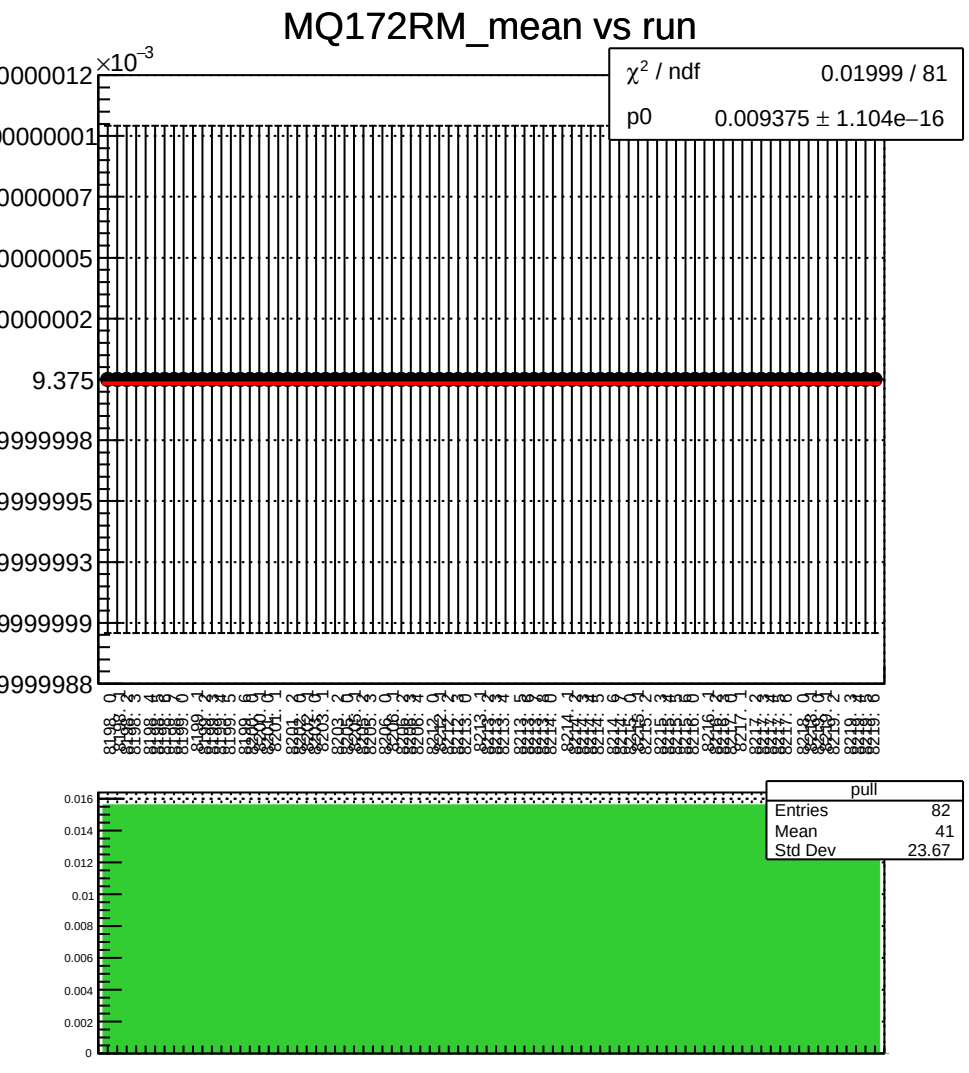

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

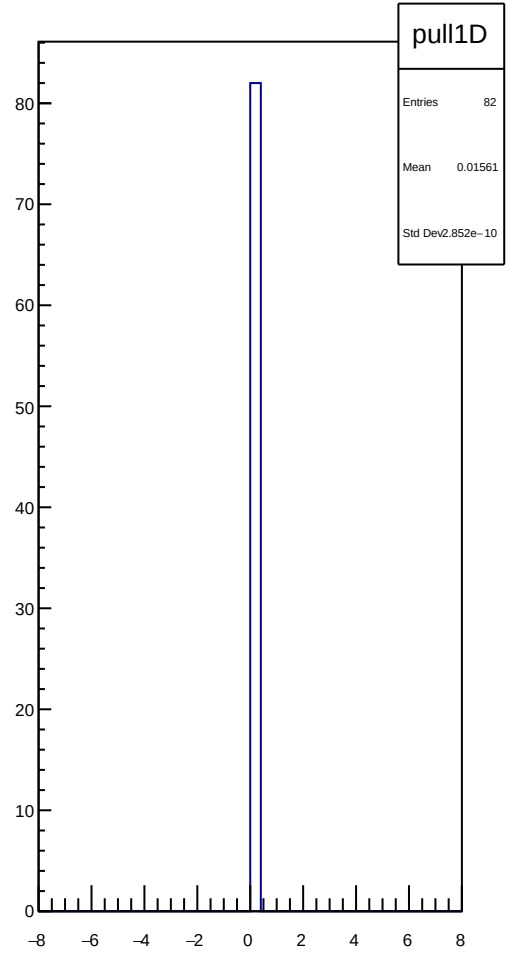

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 5.615e+26 / 81
p0 741 ± 1.104e−16
741.028
741.026
741.024
741.022
741.02
pull
Entries 82
Mean −1.003e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000

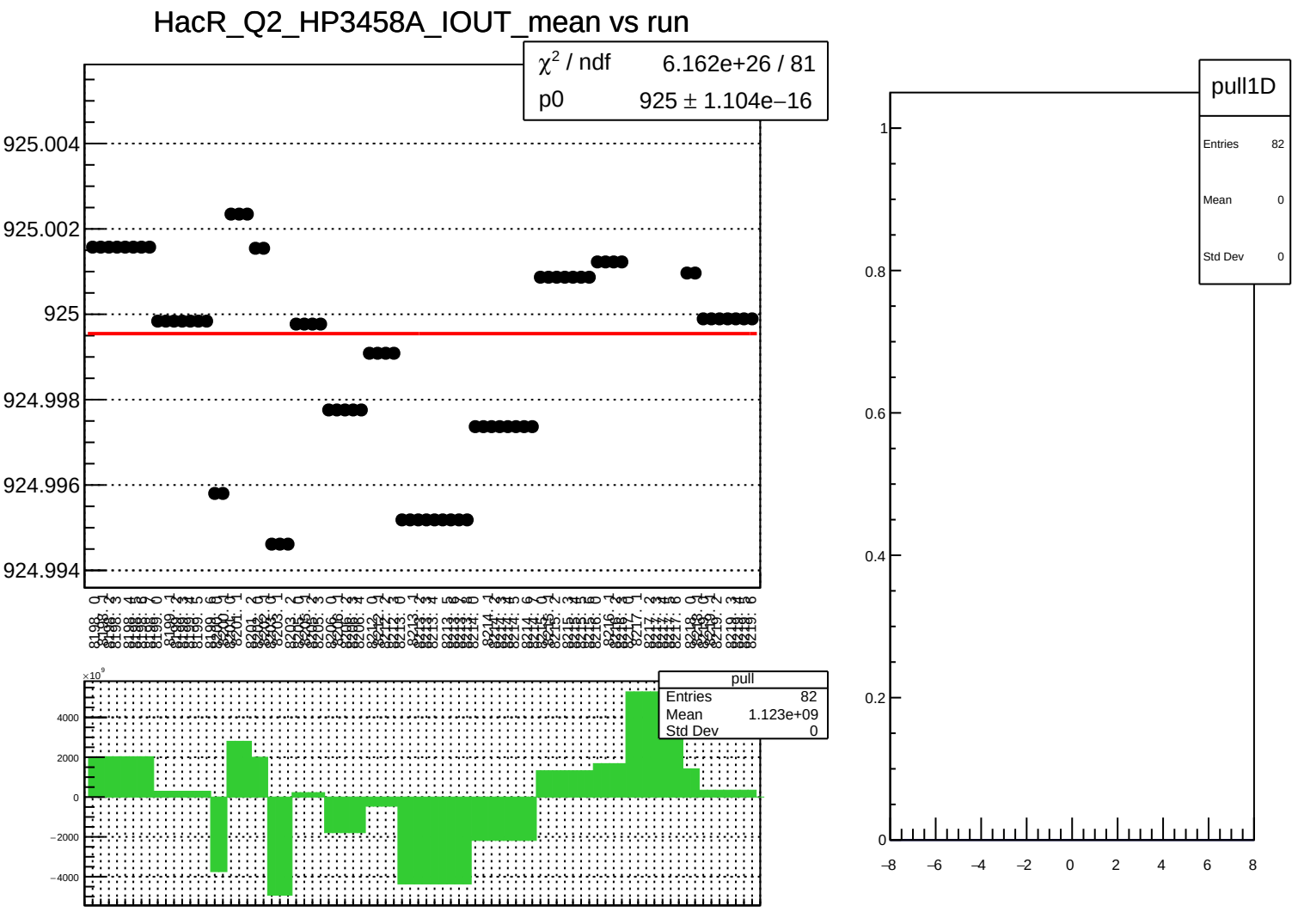

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

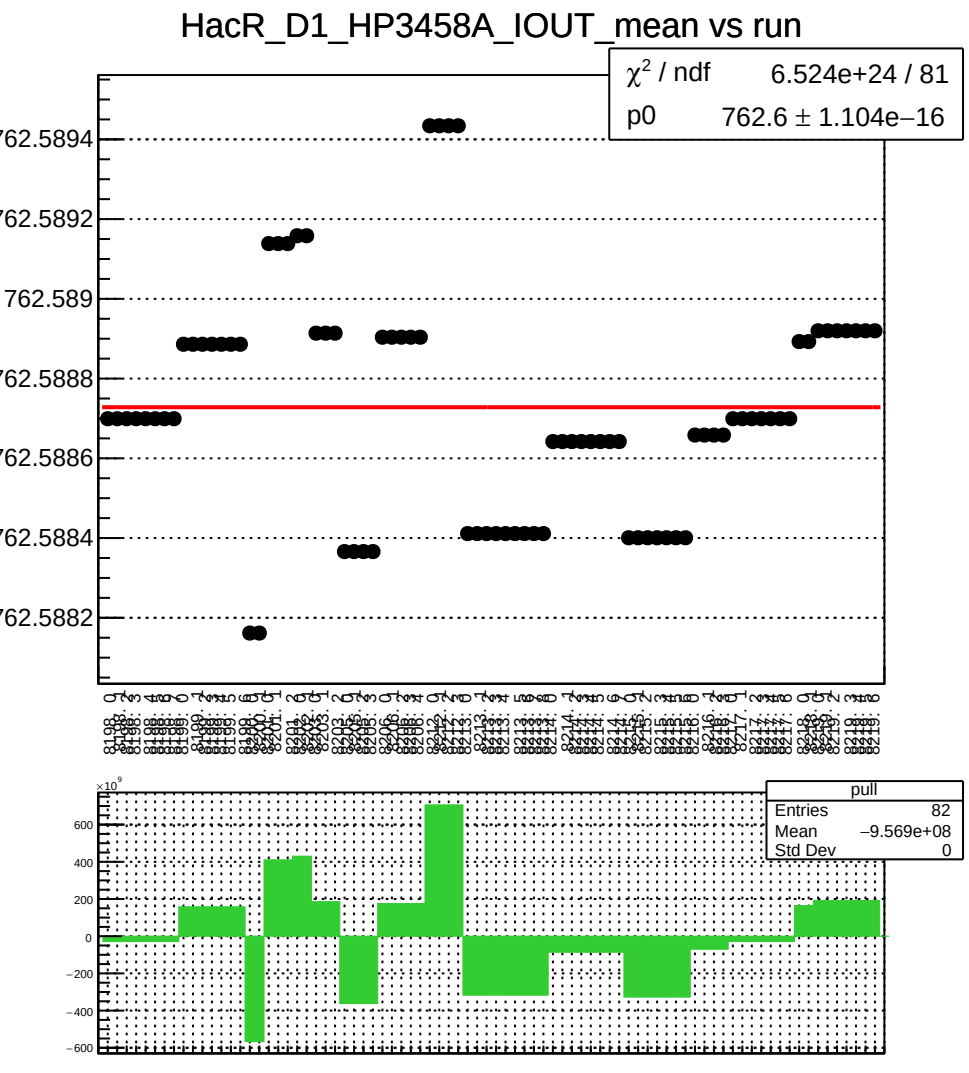

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.764e+26 / 81
p0 980.8 ± 1.104e−16
980.792
980.79
980.788
980.786
980.784
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 82
Mean −1.24e+09
Std Dev 0

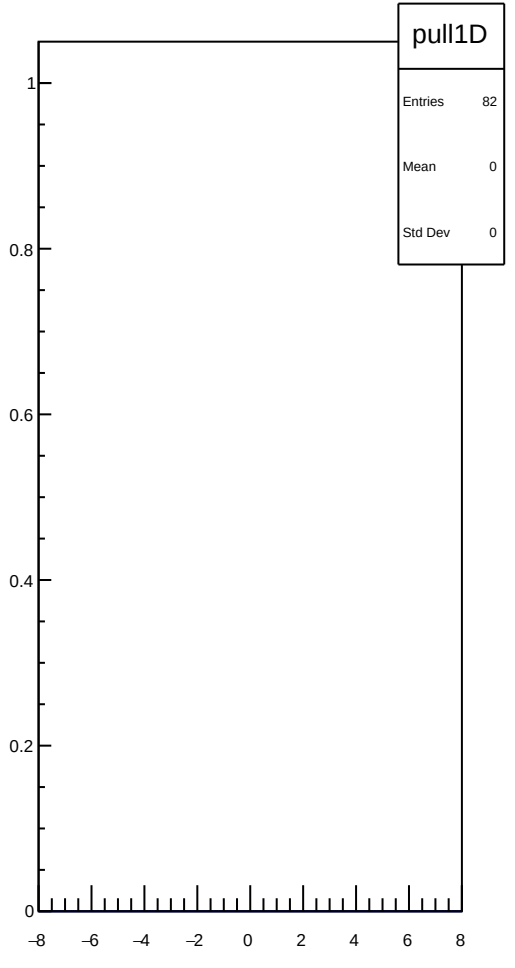

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

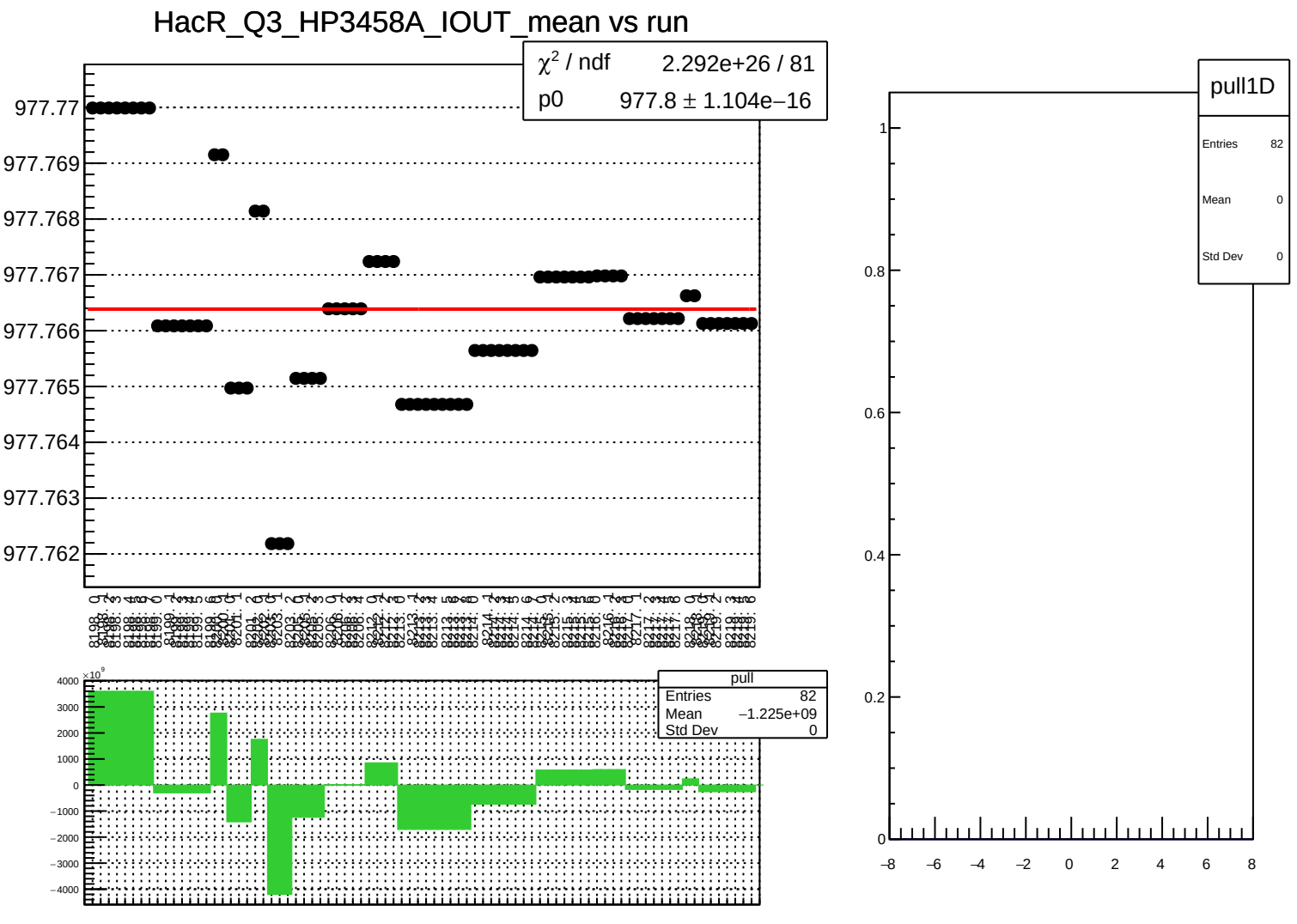

MQ172RM_mean vs run
χ² / ndf 0.01999 / 81
p0 0.009375 ± 1.104e−16
×10⁻³
pull
Entries 82
Mean 41
Std Dev 23.67

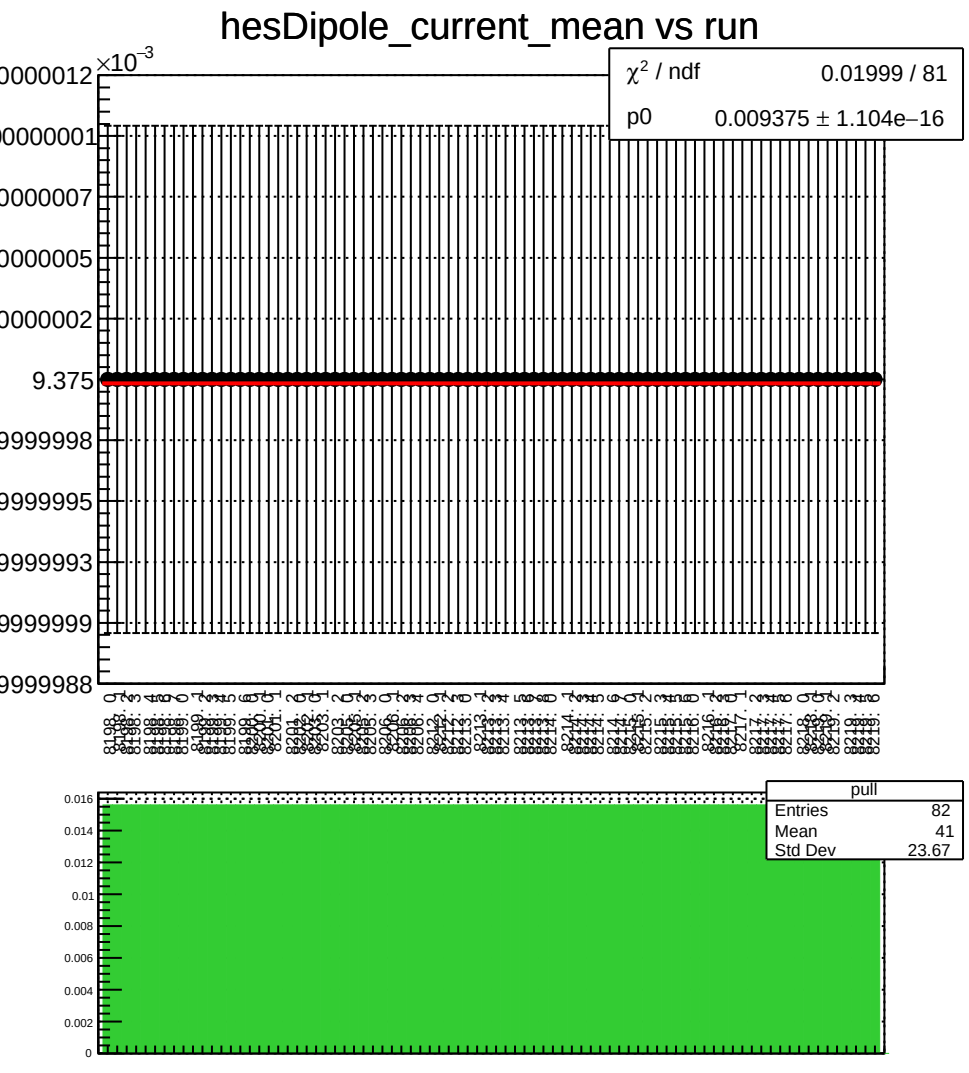

pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10

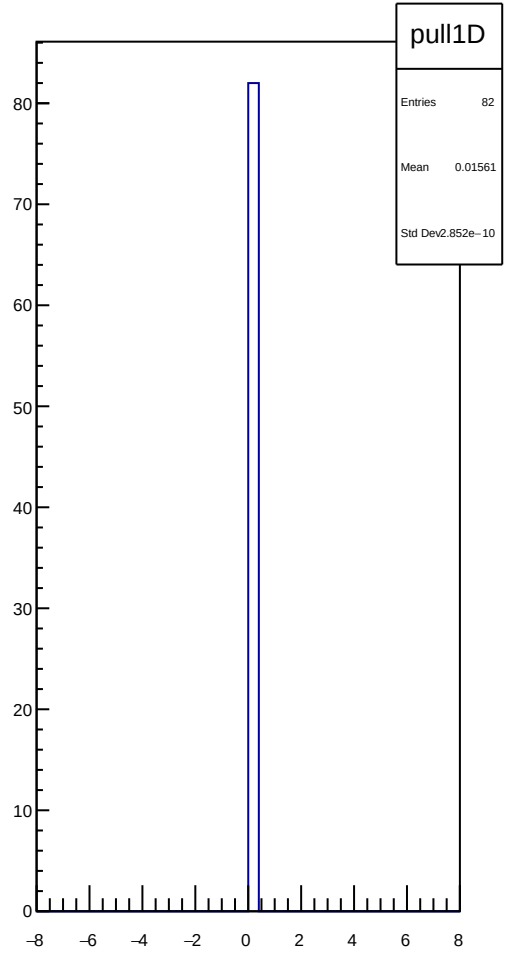

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 6.162e+26 / 81
p0 925 ± 1.104e−16
925.004
925.002
925
924.998
924.996
924.994
pull
Entries 82
Mean 1.123e+09
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

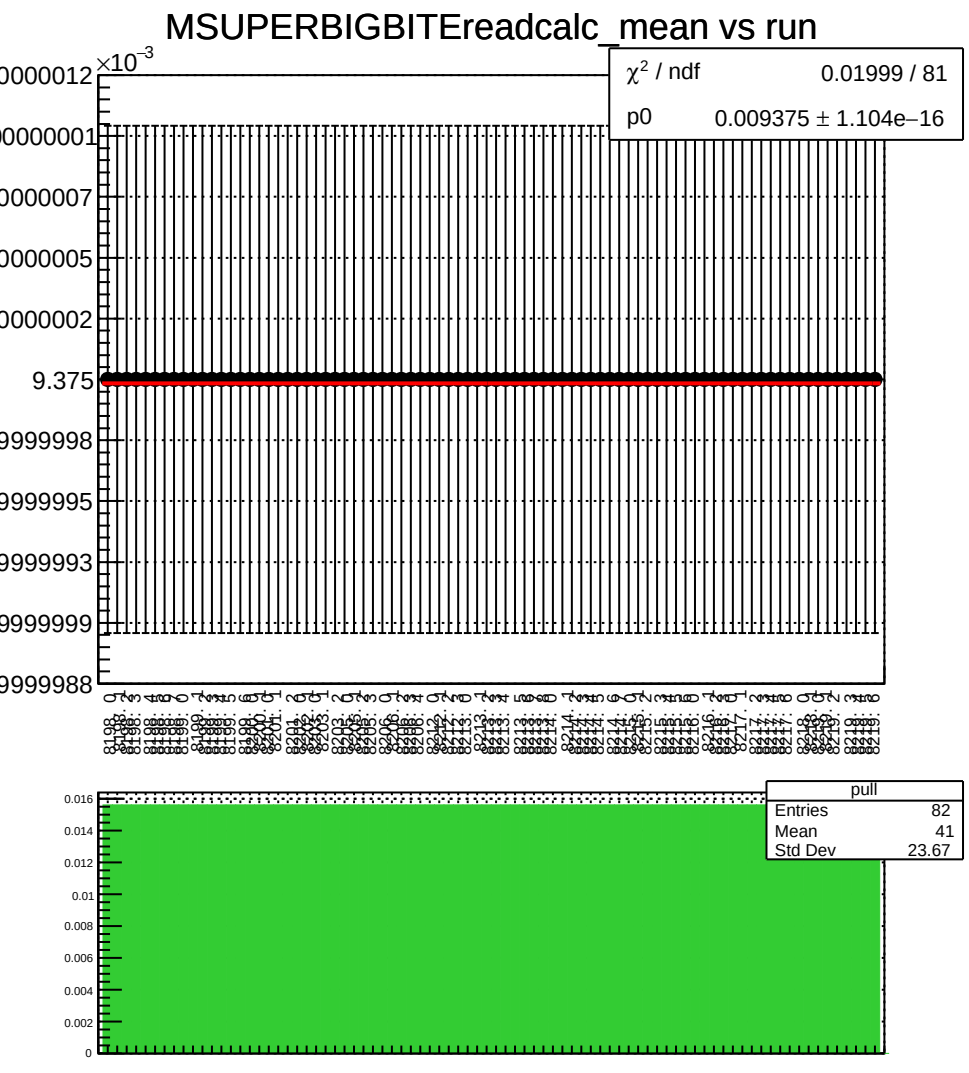

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 6.524e+24 / 81
p0 762.6 ± 1.104e−16
762.5894
762.5892
762.589
762.5888
762.5886
762.5884
762.5882
×10⁹
600
400
200
0
−200
−400
−600
pull
Entries 82
Mean −9.569e+08
Std Dev 0

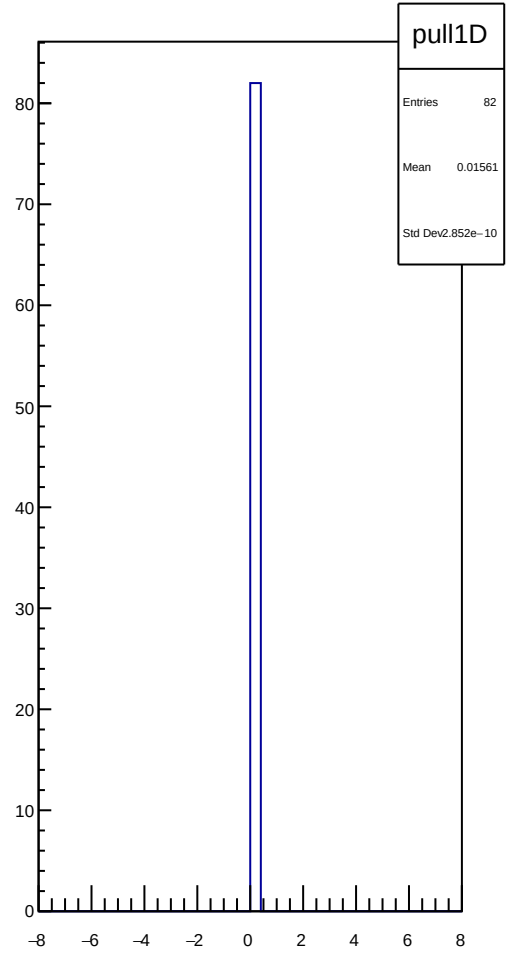

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

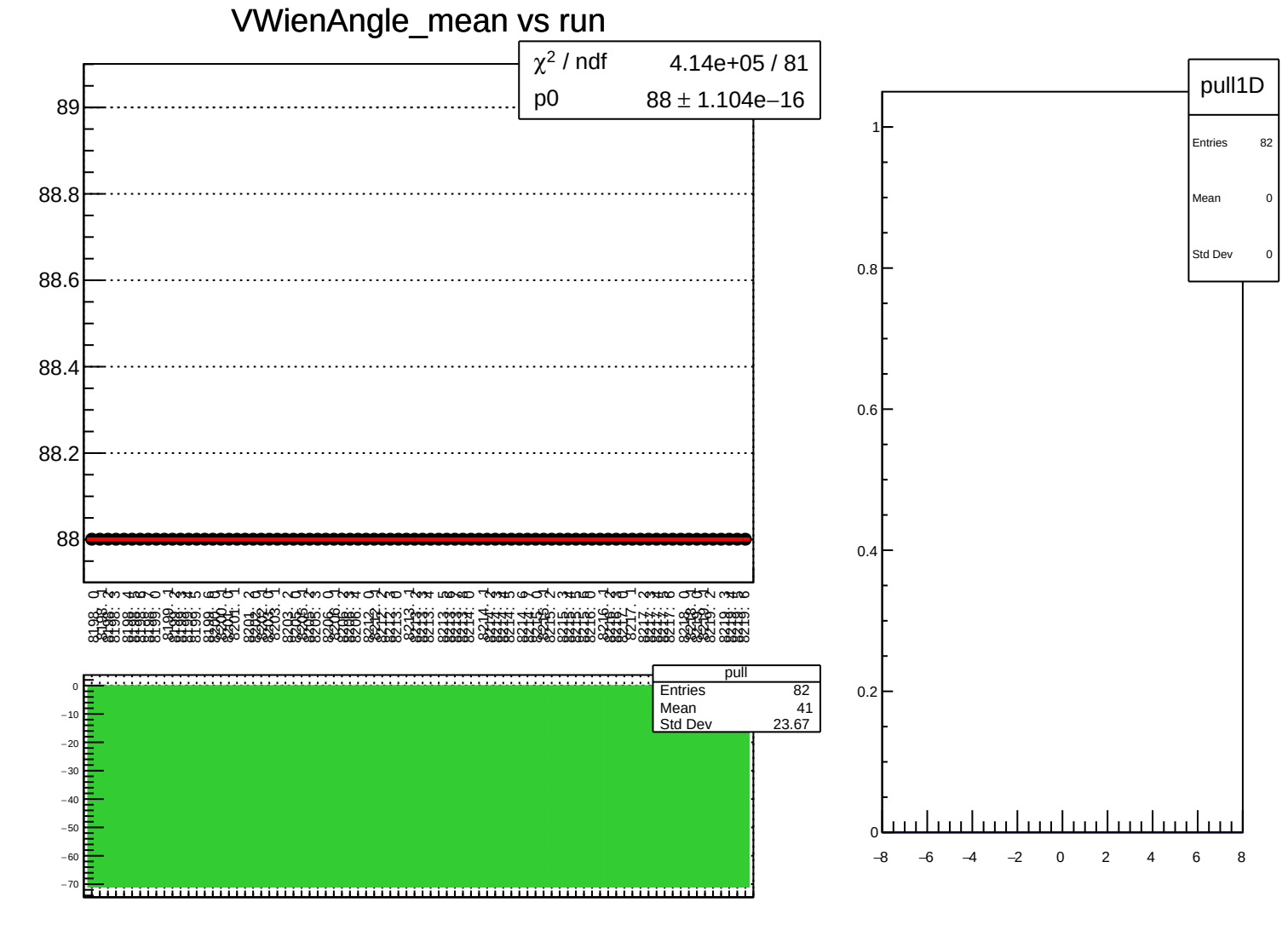

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.292e+26 / 81
p0 977.8 ± 1.104e−16
977.77
977.769
977.768
977.767
977.766
977.765
977.764
977.763
977.762
pull
Entries 82
Mean −1.225e+09
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

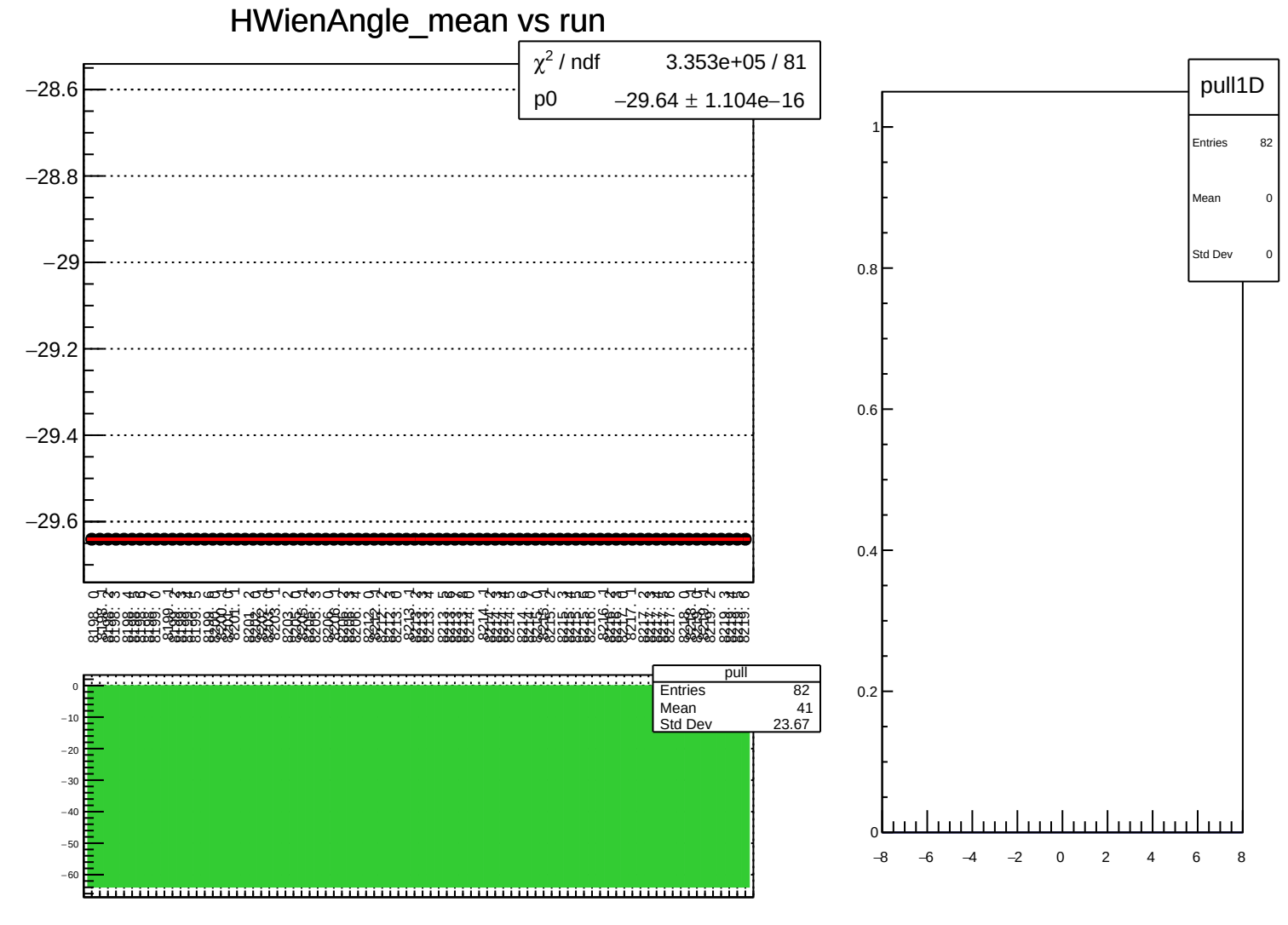

hesDipole_current_mean vs run
χ² / ndf 0.01999 / 81
p0 0.009375 ± 1.104e−16
×10⁻³
pull
Entries 82
Mean 41
Std Dev 23.67

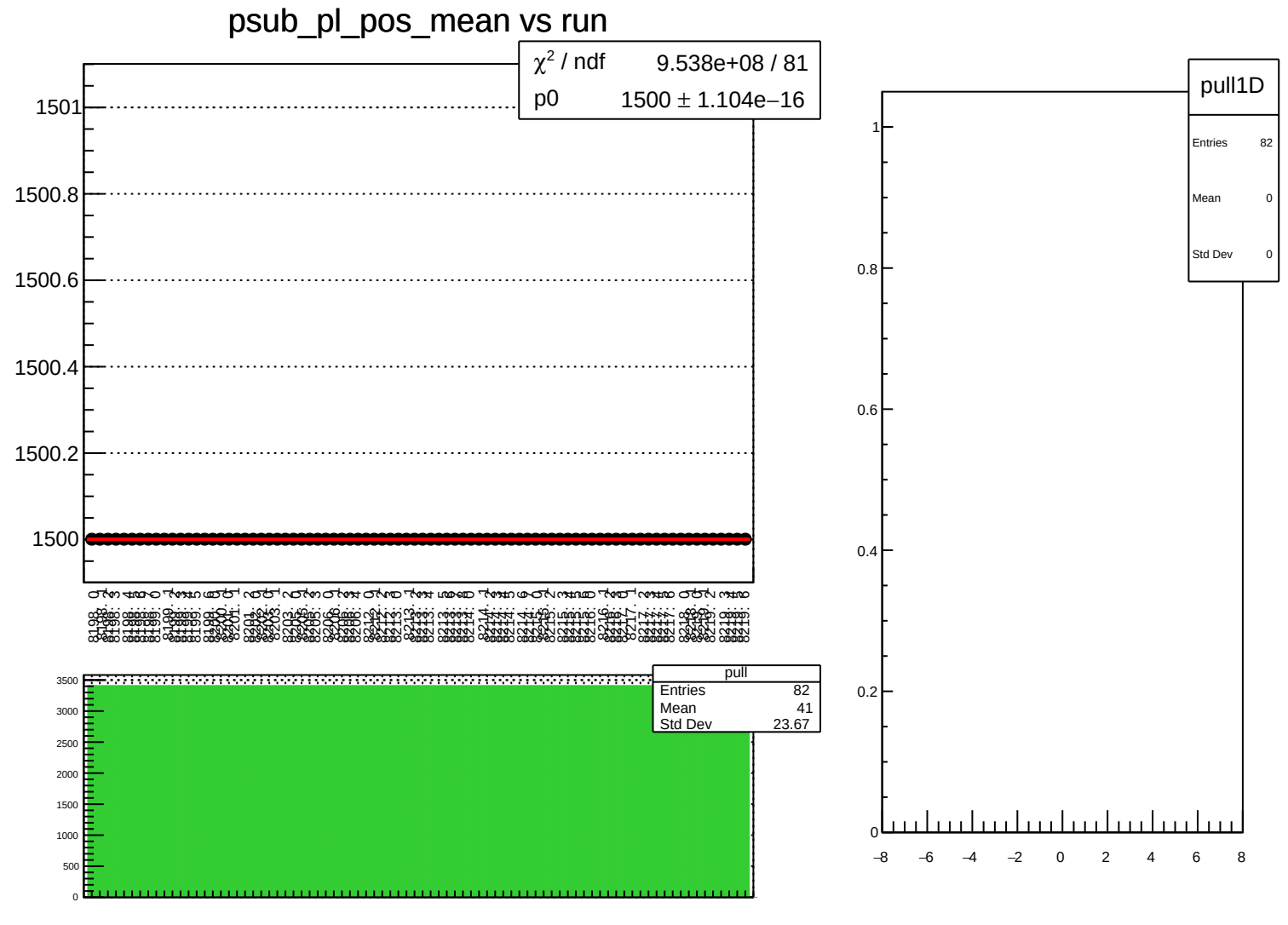

pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10

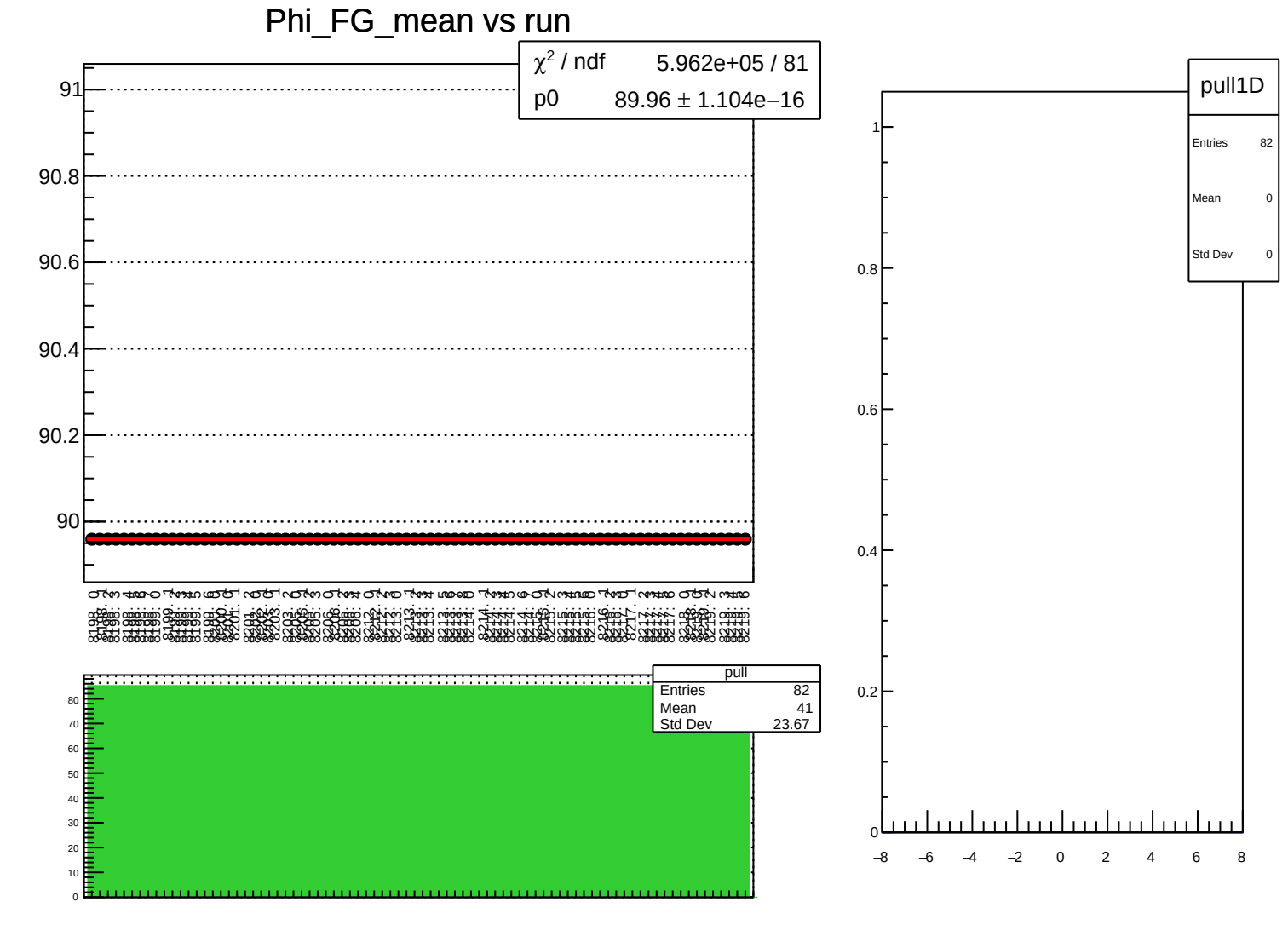

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.01999 / 81
p0 0.009375 ± 1.104e−16
×10⁻³
pull
Entries 82
Mean 41
Std Dev 23.67

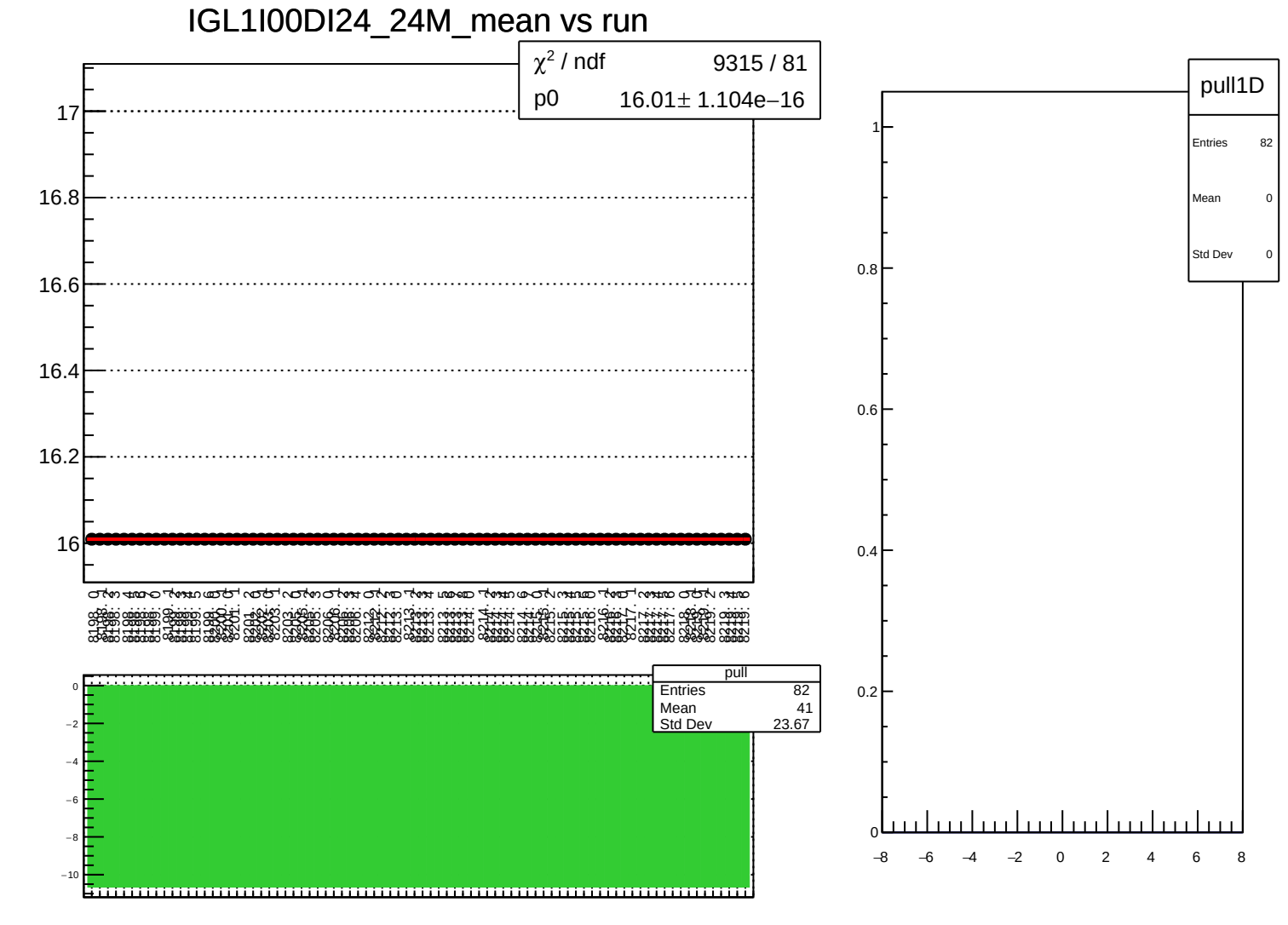

pull1D
Entries 82
Mean 0.01561
Std Dev 2.852e−10

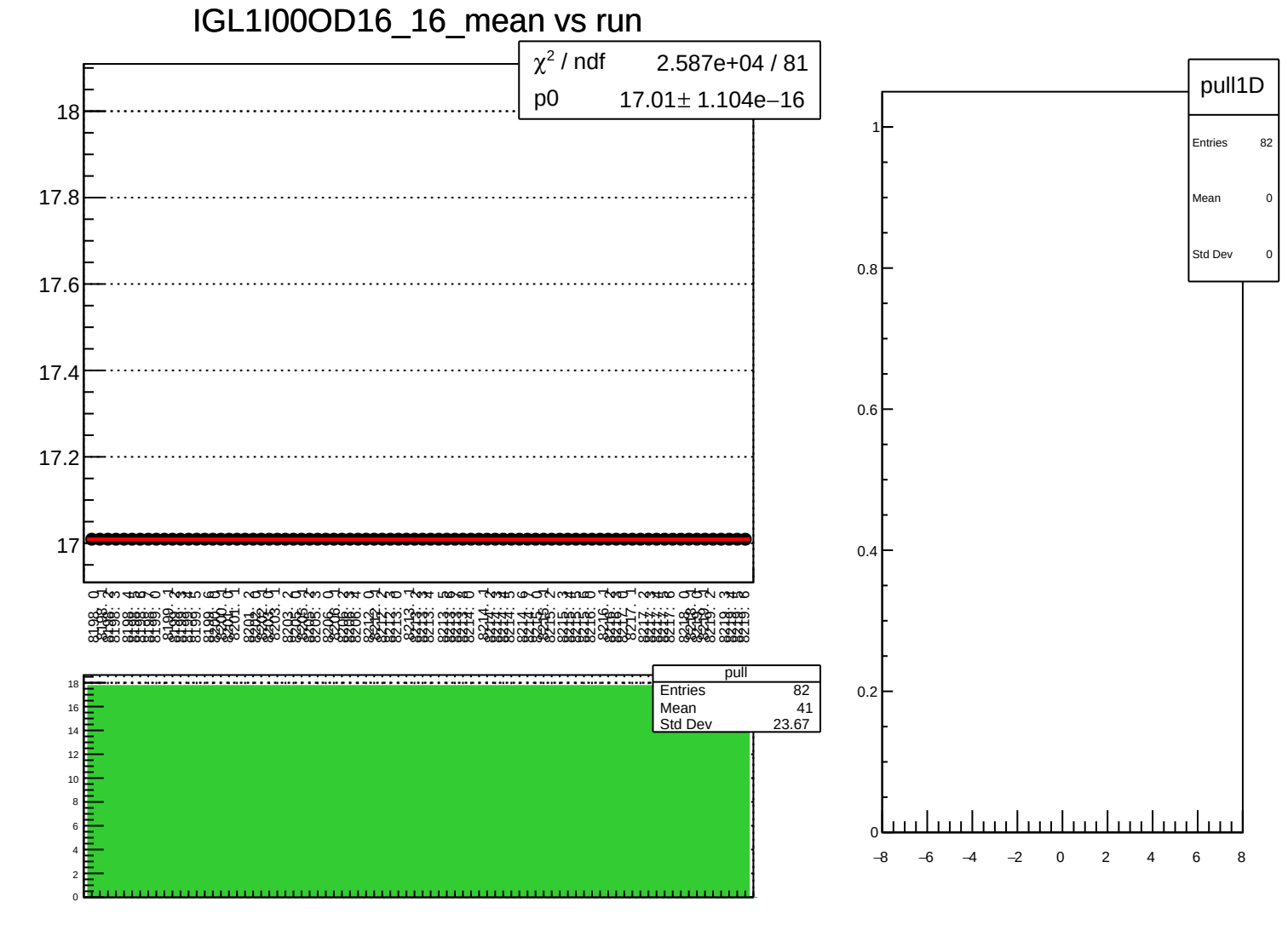

VWienAngle_mean vs run
χ² / ndf 4.14e+05 / 81
p0 88 ± 1.104e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 82
Mean 41
Std Dev 23.67
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

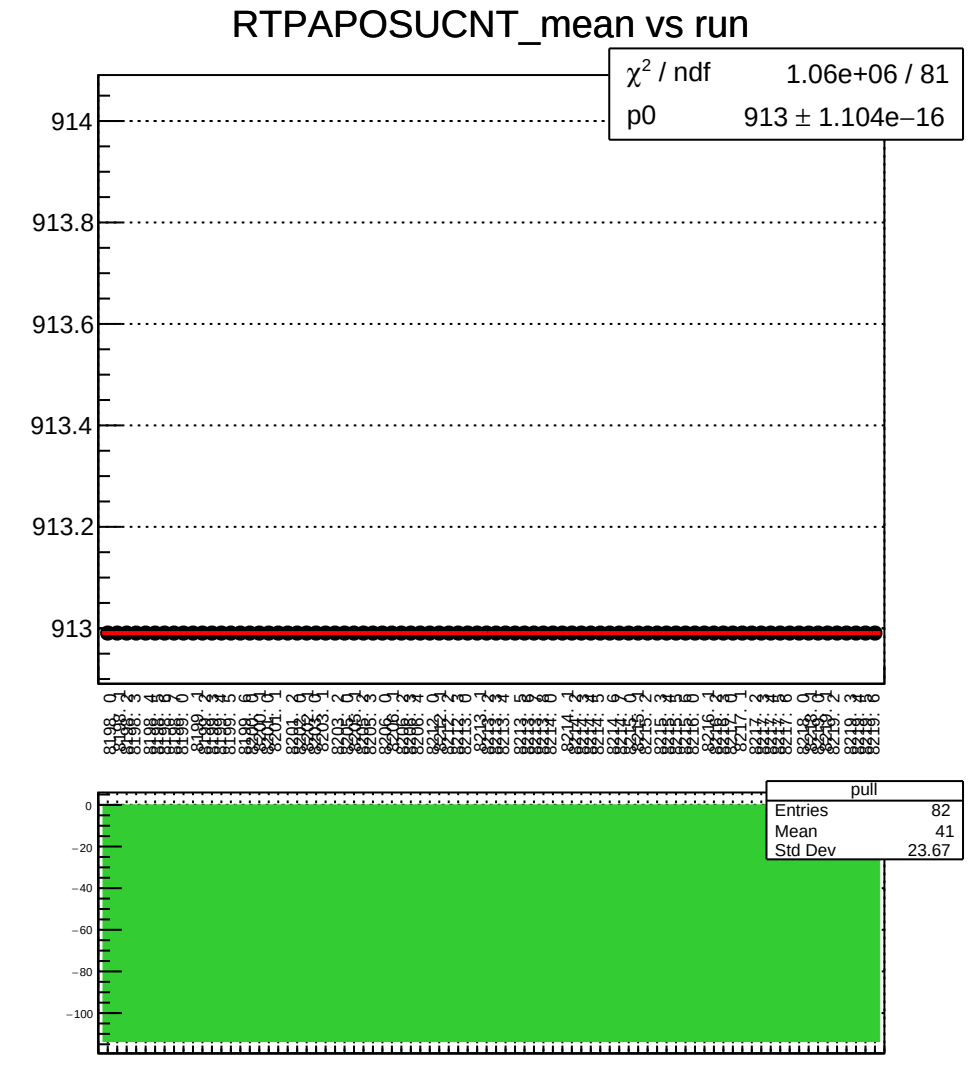

HWienAngle_mean vs run
χ² / ndf 3.353e+05 / 81
p0 −29.64 ± 1.104e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 82
Mean 41
Std Dev 23.67
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

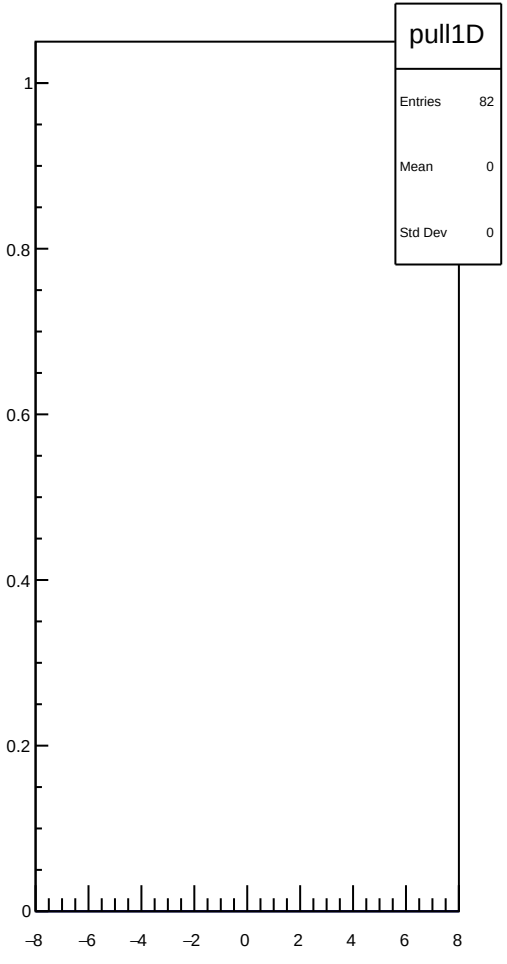

psub_pl_pos_mean vs run
χ² / ndf 9.538e+08 / 81
p0 1500 ± 1.104e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 82
Mean 41
Std Dev 23.67
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

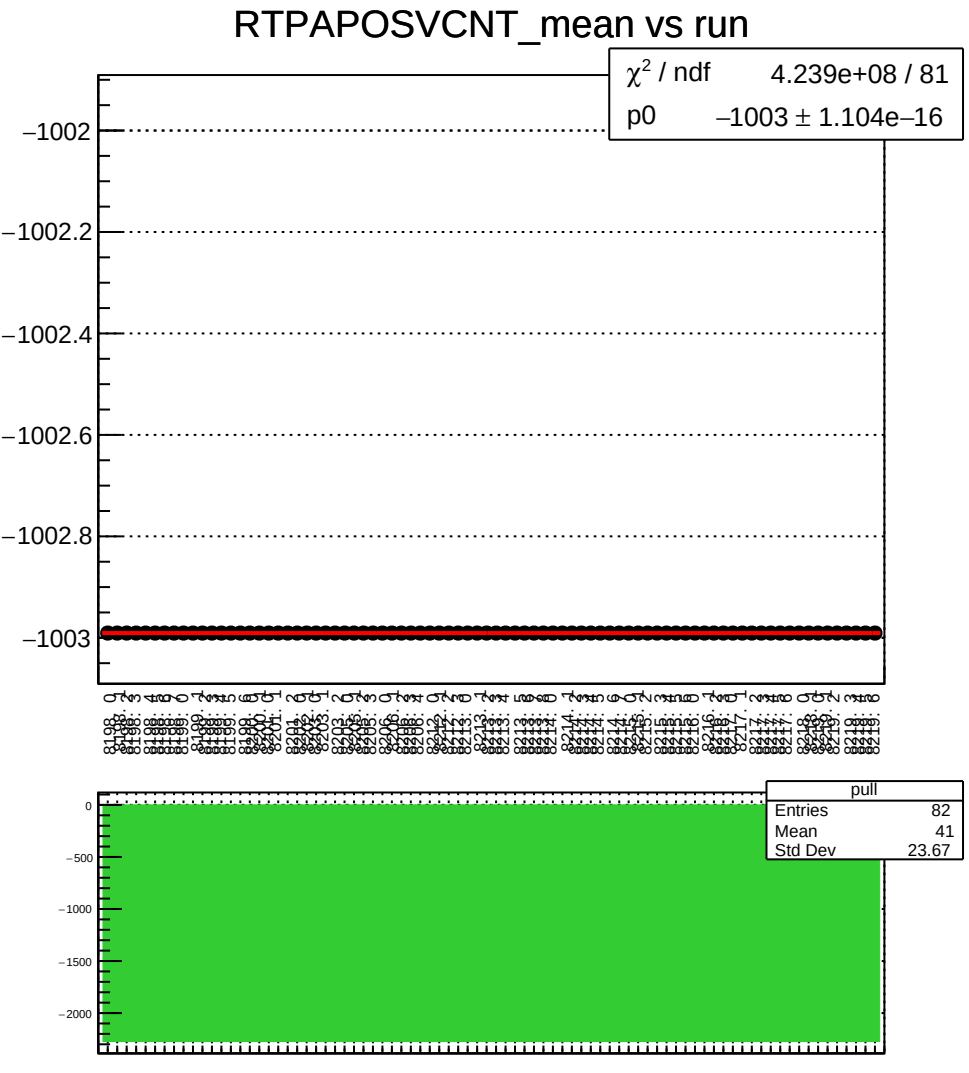

Phi_FG_mean vs run
χ² / ndf 5.962e+05 / 81
p0 89.96 ± 1.104e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 82
Mean 41
Std Dev 23.67
80
70
60
50
40
30
20
10
0
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

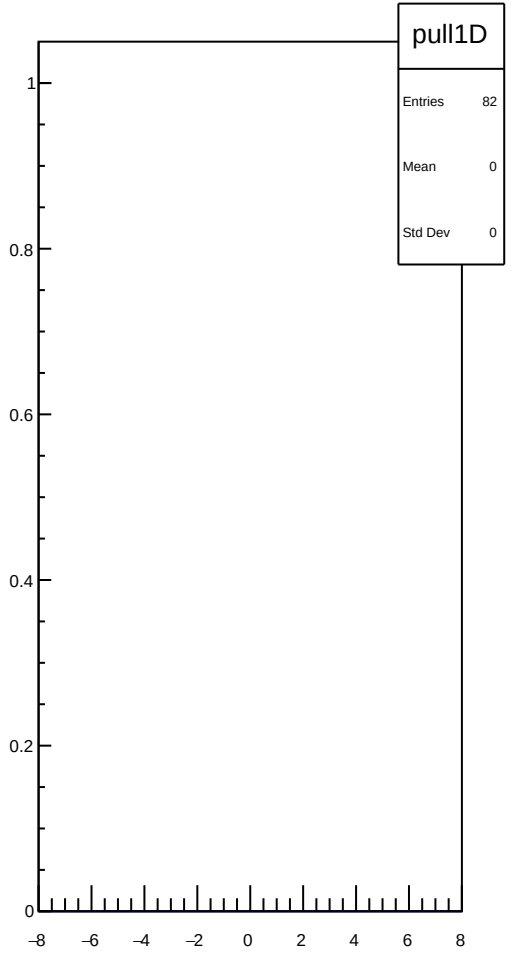

IGL1I00DI24_24M_mean vs run
χ² / ndf 9315 / 81
p0 16.01± 1.104e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 82
Mean 41
Std Dev 23.67
0
−2
−4
−6
−8
−10
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

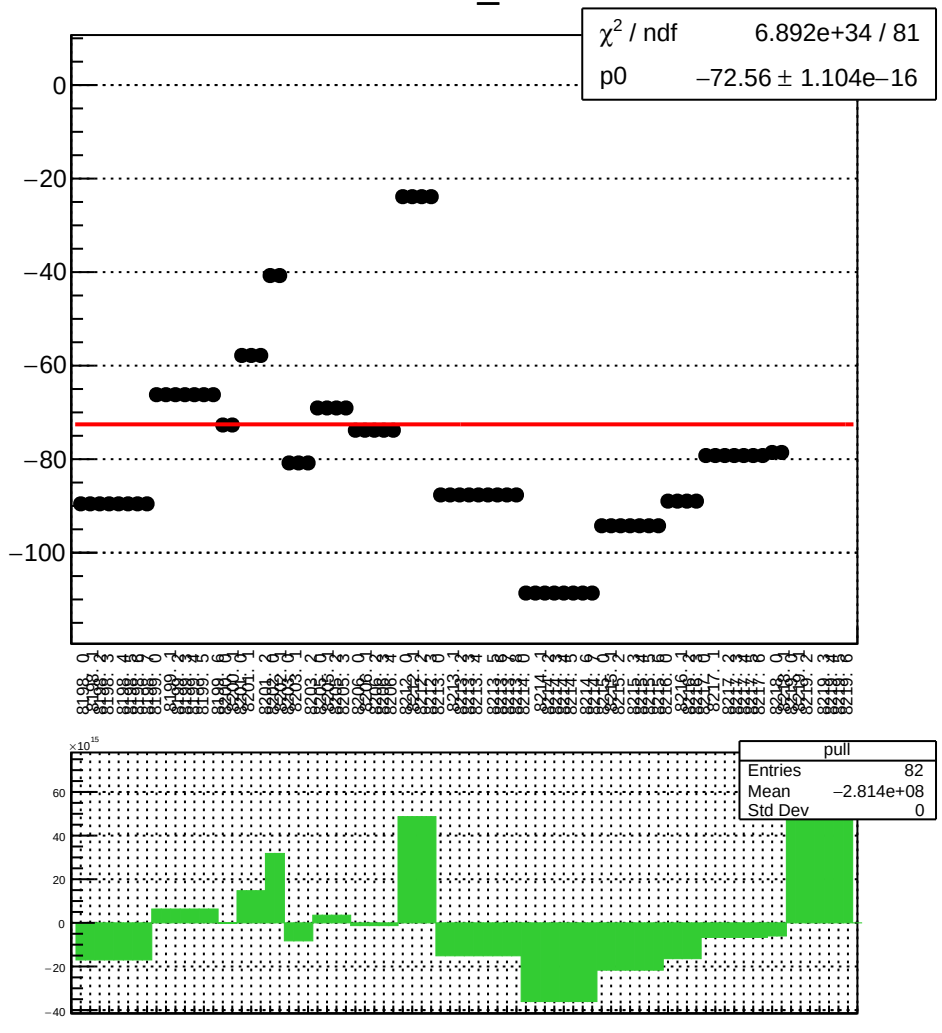

IGL1I00OD16_16_mean vs run
χ² / ndf 2.587e+04 / 81
p0 17.01± 1.104e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

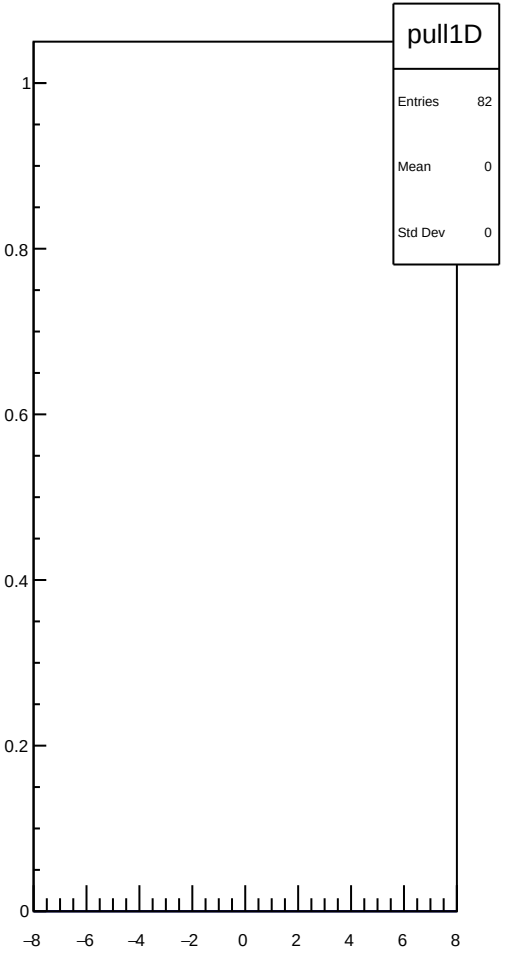

RTPAPOSUCNT_mean vs run
χ² / ndf 1.06e+06 / 81
p0 913 ± 1.104e−16
914
913.8
913.6
913.4
913.2
913
pull
Entries 82
Mean 41
Std Dev 23.67
0
−20
−40
−60
−80
−100

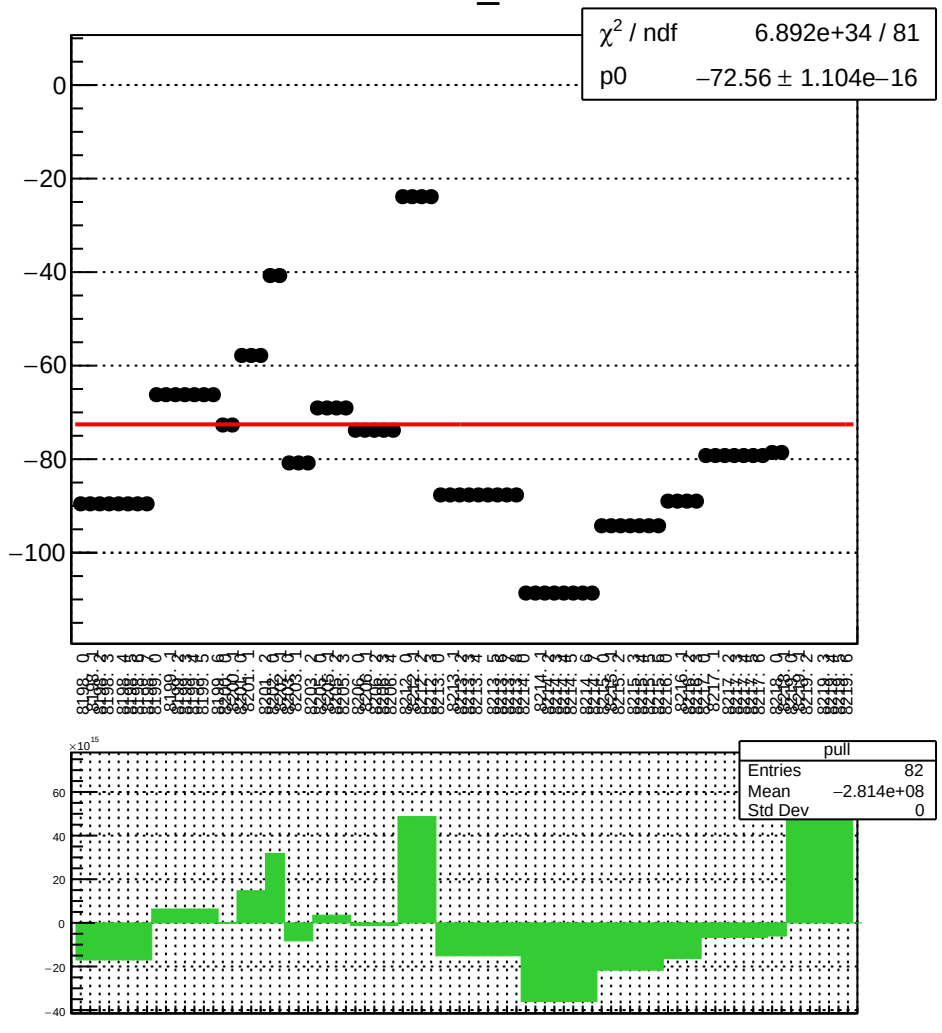

pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

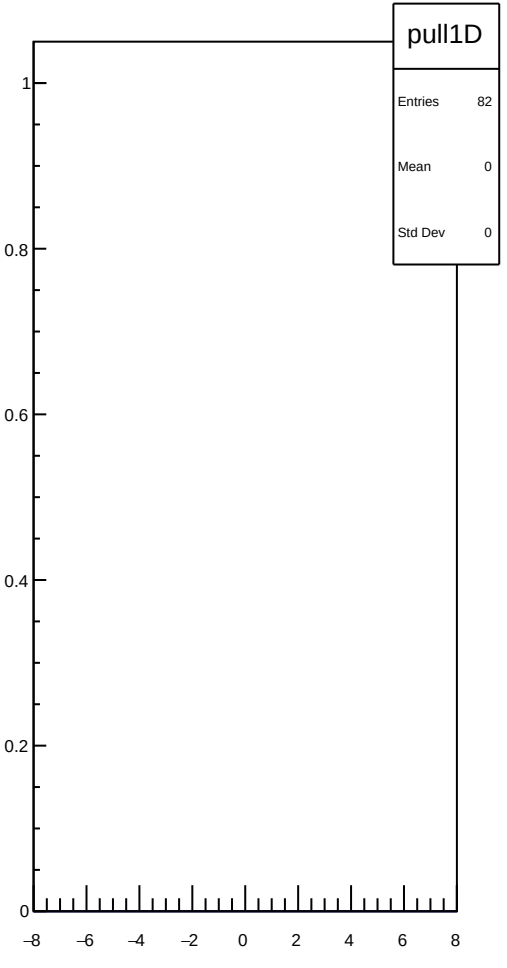

RTPAPOSVCNT_mean vs run
χ² / ndf 4.239e+08 / 81
p0 −1003 ± 1.104e−16
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
pull
Entries 82
Mean 41
Std Dev 23.67
0
−500
−1000
−1500
−2000


pull1D
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 6.892e+34 / 81
p0 −72.56 ± 1.104e−16
pull
Entries 82
Mean −2.814e+08
Std Dev 0


pull1D
Entries 82
Mean 0
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 6.892e+34 / 81
p0 −72.56 ± 1.104e−16
pull
Entries 82
Mean −2.814e+08
Std Dev 0


pull1D
Entries 82
Mean 0
Std Dev 0